COLUMBIA COUNTY, FLORIDA BOARD

OF COUNTY COMMISSIONERS

INVITATION TO BID: COLUMBIA COUNTY PROJECT 2025-12

FDOT FPID 445725-5-54-02

I-75 AT SR 25 (US 41) WIDENING AND RESURFACING

The Board of County Commissioners (County) will receive sealed proposals in the office of Commissioners, 135 NE Hernando Avenue, Suite 203, Lake City, FL 32055, until **2:00 P.M.** local time on **October 30, 2025** for the following:

I-75 AT SR 25 (US 41) WIDENING AND RESURFACING

Work on this project includes milling, resurfacing, and widening of the mainline, shoulders, auxiliary lanes, and ramps on SR 25 (US 41) at the interchange with I-75 in Columbia County; replacement of existing guardrail; construction of a stormwater management facility and drainage features; installation of new guide signs; construction of signalization features for the ramp intersections; retrofitting new luminaires on high mast light poles and underdeck lighting, and construction of new intersection lighting.

The Bid Forms and specifications may be obtained from the County's web site at http://www.columbiacountyfla.com/PurchasingBids.asp . Deadline for questions regarding construction plans, specifications, and/or bid documents must be received before **5:00 P.M.** on **October 23, 2025.**

The successful bidder may be required to furnish a 5% bid bond with bid submittal, and if selected, furnish the County Manager with a performance bond, and proof liability insurance prior to commencing work. The Columbia County Board of County Commissioners reserve the right to reject any or all bids and to add to the contract or delete from the contract to stay within their funding capabilities.

All Proposers are advised that under Chapter 119, Florida Statutes, all responses are deemed a public record and open to the public as provided for in said statute.

Columbia County Board of County Commissioners
Columbia County Project No: 2025-12; FDOT FPID 445725-5-54-02
I-75 at SR 25 (US 41) Widening and Resurfacing

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Columbia County Board of County Commissioners
Columbia County Project No: 2025-12; FDOT FPID 445725-5-54-02
I-75 at SR 25 (US 41) Widening and Resurfacing

I. BID SOLICITATION

The Columbia County Board of County Commissioners, Columbia County, Florida will receive sealed bids from Florida certified contractors, at the County Administration Building, addressed to the attention of **Board of County Commissioners Columbia County, Florida** until **2:00 P.M., on October 30, 2025.** Bids will be publicly opened and read aloud at the County Administration Building, 135 NE Hernando Avenue, Suite 203, Lake City, FL 32055, **after that time** for the following:

I-75 AT SR 25 (US 41) WIDENING AND RESURFACING

Work on this project includes milling, resurfacing, and widening of the mainline, shoulders, auxiliary lanes, and ramps on SR 25 (US 41) at the interchange with I-75 in Columbia County; replacement of existing guardrail; construction of a stormwater management facility and drainage features; installation of new guide signs; construction of signalization features for the ramp intersections; retrofitting new luminaires on high mast light poles and underdeck lighting, and construction of new intersection lighting.

The Board of County Commissioners may accept all or part of any bid. Any bid received after **2:00 P.M., on October 30, 2025**, will be retained at the County Administration Building, unopened, and will not be considered. The Board of County Commissioners reserves the right to reject all bids, waive formalities and re-advertise and award the bid in the best interest of Columbia County.

The Board of County Commissioners does not discriminate because of race, creed, color, national origin, or handicap status.

The Board of County Commissioners requires a Sworn Statement under section 287.133(3)(a), F.S., on Public Entity Crimes.

A Bid Guarantee in the form of a Bid Bond properly executed by the Bidder and by a qualified surety or a certified or cashier's check on any national or state bank, in a sum not less than five percent (5%) of the amount bid, made payable to Columbia County, c/o Clerk of the Circuit Court, must accompany each bid as a guarantee that the bidder will not withdraw from the competition after opening of the bids, and in the event the contract is awarded to the bidder he will within fifteen (15) days, after the notice of Award, enter into a contract with the Owner. If the bidder fails to enter into a contract with the Owner, he shall forfeit the Bid Guarantee or Bid Bond as liquidated damages. The Bid Bond must be secured from an agency of Surety with an Insurance Company, which agency

shall have an established place of business in the State of Florida, and be duly licensed to conduct business therein.

The following conditions will be a part of the contract as required by Columbia County:

Contractor shall utilize the U.S. Department of Homeland Security's E-Verify system, in accordance with the terms governing use of the system, to confirm the employment eligibility of;

1. all persons employed by the Vendor/Contractor during the term of the Contract to perform employment duties within Florida; and
2. all persons, including subcontractors, assigned by the Vendor/Contractor to perform work pursuant to the contract with Columbia County.

Successful Bidders will be required to furnish a Public Construction Bond in the amount of 100% of the Contract Price, on the form included in the Bid Documents.

Bid information can be found on Columbia County's website. Bid Packages may be obtained from https://www.columbiacountyfla.com/PurchasingBids.asp. *All addenda issued in regard to this project will also be available via the County website and will be the sole responsibility of the Contractor to obtain.* Plans for review only will be located at the County Administration office (386)-758-1005. Any questions concerning specifications and/or bid documents should be directed to Erica Jones, Purchasing Officer. The deadline for questions is **5:00 P.M., on October 23, 2025.** All bids must be labeled on the outside of the envelope as:

BOARD OF COUNTY COMMISSIONERS COLUMBIA COUNTY, FLORIDA
BID ENCLOSED FOR I-75 AT SR 25 (US 41) WIDENING AND RESURFACING
COLUMBIA COUNTY PROJECT NO. 2025-12
"BIDDING COMPANY NAME"

II. GENERAL INSTRUCTIONS

These instructions will bind bidders and conditions herein set forth, except as specifically qualified in special bid and contract terms issued with any individual bid.

1. The following criteria are used in determining low responsible bidder:
   a. The ability, capacity and skill of bidder to perform required service. Whether the bidder can perform service promptly or within specified time.
   b. The determined character, integrity, reputation, judgment, experience and efficiency of bidder.
   c. The performance of previous contracts with Columbia County or entities similar to Columbia County.
   d. The suitability of equipment or material for County use. The ability of bidder to provide future maintenance.
2. Payment Terms are net thirty (30) unless otherwise specified. Favorable terms, discounts, may be offered and will be considered in determining low bids if they are deemed by Purchasing Department to be advantageous to the County.
3. All bids should be tabulated, totaled and checked for accuracy. Where applicable, the provided unit price will prevail in case of discrepancies or other errors.
4. All requested information shall be included in the envelope. All desired information must be included for your bid to receive full consideration.
5. If anything on the bid request is not clear, you should contact the Purchasing Officer immediately.
6. A bidders list is available at the Purchasing Office.
7. Quote all prices F.O.B. our warehouse or as specified in bid documents.
8. Each proposal shall be clearly marked on the outside of the envelope including Fed Ex, UPS or other delivery service envelopes, as a sealed bid. The name of the item being bid shall be shown on the outside in full.
9. The County shall not be liable for any bid opened prematurely if that bid was not sealed in a properly marked envelope.
10. If only one (1) bid is received, the bid may be rejected and re-advertised or accepted if determined to be in the counties best interest.
11. Bids received late will not be accepted. It is the bidder's sole responsibility to ensure proposals are timely delivered and received before the deadline.
12. Telephone and facsimile bids will not be accepted under any circumstances. Should a timely delivered bid be misplaced by the County but later found before ranking occurs, the bid will be considered. A bidder may request a receipt showing the day and time a bid envelope is delivered to the appropriate office of the County.
13. Bids requiring bid bonds will not be accepted if bond is not enclosed. Cash or certified check will be accepted in lieu of bond except on construction projects with a project budget exceeding $40,000.

14. Upon request of the Purchasing Office or County Manager, a bidder must provide proof that the bidder has the requisite organization, capital, plant, stock, ability, and experience to perform the contract contemplated by the Request for Proposals/Qualifications or Invitation to Bid.
15. Any alterations, erasures, additions, or omissions of required information or any changes to specifications or bidding schedule are done at the risk of the bidder. Any bid will be rejected that has a substantial variation, that is; a variation that affects price, quantity, and quality or delivery date (when delivery is required by a specific time).
16. When requested, samples will be furnished to the County free of expense, properly marked for identification and accompanied by a list where there is more than one (1) sample. The County reserves the right to mutilate or destroy any sample submitted whenever it may be to the best interest of the County to do so for the purpose of testing.
17. The County will reject any material, supplies or equipment that did not meet the specifications, even though the bidder lists the trade names or names of such material on the bid or price quotation form.
18. The unauthorized use of patented articles is done entirely at the risk of the successful bidder.
19. The ESTIMATED QUANTITY given in the specifications or advertisements is for the purpose of bidding only. The County may purchase more or less than the estimated quantity and the vendor must not assume that such estimated quantity is part of the contract.
20. Only the latest model equipment as evidenced by the manufacture's current published literature will be considered. Obsolete models of equipment not in production will not be acceptable. The equipment shall be composed of new parts and materials. Any unit containing used parts or having seen any service other than the necessary tests will be rejected. In addition to the equipment specifically called for in the specification, all equipment catalogued by the manufacturer as standard or required by the State of Florida shall be furnished with the equipment. Where required by the State of Florida Motor Vehicle Code, vehicles shall be inspected and bear the latest inspection sticker of the Florida Department of Revenue.
21. Prospective bidders are required to examine the location of the proposed work or delivery and determine, in their own way, the difficulties, which are likely to be encountered in the prosecution of the same.
22. All materials, equipment and supplies shall be subject to rigid inspection, under the immediate supervision of the Purchasing Department, its designee and /or the department to which they are delivered. If defective material, equipment, or supplies are discovered, the contractor, upon being instructed by the Purchasing Department or designee, shall remove, or make good such material, equipment, or supplies without extra compensation. It is expressly understood and agreed that the inspection of materials by the County will in no way lessen the responsibility of the Contractor release him from his obligation to perform and deliver to the County sound and satisfactory materials, equipment, or supplies. The Contractor agrees

to pay the costs of all tests upon defective material, equipment, or supplies or allow the costs to be deducted from any monies due him from the County.

23. Unless otherwise specified by the Purchasing Department all materials, supplies, or equipment quoted herein must be delivered within thirty (30) days from the day of notification or exceptions noted on bid sheets.
24. A contract will not be awarded to any corporation, firm, or individual who is, from any cause, in arrears to the County or who has failed in former contracts with the County to perform work satisfactorily, either to the character of the work, the fulfillment or guarantee, or the time consumed in completing the work.
25. Reasonable grounds for supposing that any bidder is interested in more than one proposal for the same item will be considered sufficient cause for rejection of all proposals in which he is interested.
26. Submitting a proposal when the bidder intends to sublet the contract may be a cause for rejection of bids or cancellation of the contract by the County Manager.
27. Unless otherwise specified, the County reserves the right to award each items separately or on a lump sum basis whichever is in the best interest of the County.
28. The County reserves the right to reject any quotations or specifications and the right to waive minor discrepancies as to all bidders equally, when such rejection or waiver is deemed to be in the best interest of the County. For unit priced items, the County may elect to purchase part, all, or none of the materials, supplies, or equipment specified in a bid.
29. The bidder or the bidder's authorized representative or agent must sign the bid in the space provided. Unsigned bids will be rejected. Signature must be "wet" signatures in ink. Typewritten or printed signatures will not be accepted.
30. Any bidder may withdraw his/her bid at any time before the time set for the opening of the bids.
31. It is mutually understood and agreed that if at any time the Purchasing Department or designee shall be of the opinion that the contract or any part thereof is unnecessarily delayed or that the rate of progress or delivery is unsatisfactory, or that the contractor is willfully violating any of the conditions or covenants of the agreement, or executing the same in bad faith, the Purchasing Department or his/her designee shall have the power to notify the contractor of the nature of the complaint. Notification shall constitute delivery of notice, or letter to address given in the proposal. If after three (3) working days of notification the conditions are not corrected to the satisfaction of the Purchasing Officer, he shall have the power to take whatever action necessary to complete the work or delivery and the expense shall be deducted from any paid by the County out of such monies as may become due to the said contractor. In case such expense shall exceed the last said sum, then and in that event, the bondsman or the contractor, his/her executors, administrators, successors, or assigns, shall pay the amounts of such excess to the County on notice made by the Purchasing Department or his/her designee of the excess due.

32. If the bidder proposes to furnish any item of foreign make or product, he shall write "foreign" together with the name of the originating country opposite such item on a proposal.
33. Any complaint from bidders relative to the invitation to bid or attached specifications shall be made prior to the time of opening bids; otherwise, the bidder waives any such complaint.
34. Contracts may be cancelled by the County with or without cause on thirty- (30) days advance written notice.
35. All contractors submitting bids for road projects in excess of $250,000 must be pre-qualified with the Florida Department of Transportation and shall provide proof of such qualification.
36. Any bidder affected adversely by an intended decision with respect to the award of any bid, shall file with the Purchasing Department for Columbia County, a written notice of intent to file a protest not later than seventy-two (72) hours (excluding Saturdays, Sundays and legal holidays), after the posting of the bid tabulation. Protest procedures may be obtained in the Purchasing Department.
37. A person or affiliate who has been placed on the convicted vendor's list following a conviction for a public entity crime may not submit a bid on a contract to provide any goods or services to Columbia County, may not submit a bid on a contract with Columbia County for the construction or repair of a public building or public work, may not submit bids on leases of real property to Columbia County, may not be awarded or perform work as a contractor, supplier, subcontractor, or consultant under a contract with Columbia County, and may not transact business with Columbia County for a period of 36 months from the date of being placed on the convicted vendor list.
38. Vendor/Contractor shall utilize the U.S. Department of Homeland Security's E-Verify system, in accordance with the terms governing use of the system, to confirm the employment eligibility of;
    a. All persons employed by the Vendor/Contractor during the term of the Contract to perform employment duties within Florida; and
    b. All persons, including subcontractors, assigned by the Vendor/Contractor to perform work pursuant to the contract with the County.
39. Contractor shall register on line at https://www.columbiacountyfla.com/PurchasingBids.asp for this specific project. All addendums are delivered via email through this website, and it is the contractor's responsibility to ensure all addendums are used in the bid submittal.

Columbia County Board of County Commissioners

Columbia County Project No: 2025-12; FDOT FPID 445725-5-54-02

I-75 at SR 25 (US 41) Widening and Resurfacing

Additional Instructions:

1. Contractor shall take note that mapped Florida Geological Survey "Potential Karst Features" exist along the proposed widening area between Baseline Survey Station 531+00 to 535+50, as well as within the general project vicinity. Additionally, the proposed pond footprint exists within a mapped Florida Geological Survey "Potential Karst Feature" and other mapped features were found to exist within the wider project vicinity. It should be noted that the Florida Geological Survey "Potential Karst Features" are based on aerial topographic imagery and only provide information as to the possibility of karst conditions in a general area. Therefore, variable subsoil and limestone conditions may exist within the project area. The information contained in the Geotechnical Reports does not stipulate exact soil conditions for everywhere on site.
2. Any existing materials demolished within the county right of way may be retained by Columbia County.
3. INSURANCE REQUIREMENTS

   a. Contractor's Insurance: The contractor shall not commence any work in connection with this Agreement until he has obtained all of the following types of insurance and such insurance has been approved by the County, nor shall the Contractor allow any subcontractor to commence work on his subcontract until all similar insurance required of the subcontractor has been so obtained and approved. All insurance policies shall be with Insurers qualified and doing business in Florida.

   b. Worker's Compensation Insurance: The Contractor shall take out and maintain, during the life of this Agreement, Worker's Compensation Insurance for all of the Contractor's employees connected with the work of this project and, in case any work is sublet, the Contractor shall require the subcontractor similarly to provide Worker's Compensation Insurance for all of the latter's employees, unless such employees are covered by the protection afforded by the Contractor. Such insurance shall comply fully with the Florida Worker's Compensation Law, Chapter 440, Florida Statutes. In case any class of employees engaged in hazardous work under this contract at the site of the project is not protected under the Workmen's Compensation statute, the Contractor shall provide, and cause each subcontractor to Provide, adequate insurance, satisfactory to the County, for the protection of his employees not otherwise protected.

   c. Contractor's Public Liability and Property Damage Insurance: The Contractor shall take out and maintain during the life of this Agreement COMPREHENSIVE GENERAL LIABILITY, COMPREHENSIVE AUTOMOBILE LIABILITY, CONTRACTUAL LIABILITY AND PRODUCTS AND COMPLETED OPERATIONS LIABILITY INSURANCE. These Policies shall protect him from claims for damage for personal injury, including accidental death, as well as claims for property damages, which may arise from operations under this Agreement whether such operations are by himself or by anyone directly, or indirectly employed by him. The amounts of such insurance shall be the minimum limits as follows:

   1.) Bodily Injury Liability:
   $1,000,000/claimant
   $2,000,000/occurrence

   2.) Personal Injury Liability:
   $1,000,000/claimant
   $2,000,000/occurrence

   3.) Automobile Bodily Injury:
   $1,000,000 & Property Damage Liability

   4.) Property Damage Liability:
   $1,000,000/claimant (other than automobile)
   $2,000,000/occurrence

   Indemnification Rider: The Contractor's Liability Policy shall provide a "Hold Harmless" rider to cover the provision of Article 3.18 of the referenced AIA General Conditions.

III. GENERAL REQUIREMENTS

I. General.

Work on this project includes milling, resurfacing, and widening of the mainline, shoulders, auxiliary lanes, and ramps on SR 25 (US 41) at the interchange with I-75 in Columbia County; replacement of existing guardrail; construction of a stormwater management facility and drainage features; installation of new guide signs; construction of signalization features for the ramp intersections; retrofitting new luminaires on high mast light poles and underdeck lighting, and construction of new intersection lighting.

II. Contract Time

The contract time shall be 200 Days from the date of contract execution. The contractor will be required to return executed contract to Columbia County Board of County Commissioners within 14 days of Board approval. Time can be extended by mutual agreement of both parties. Liquidated damages shall be $500.00 per day. No work is allowed on Sundays and/or County designated holidays.

III. Construction and Materials

All construction methods and materials shall conform to the requirements of the latest edition of the Florida Department of Transportation Design Standards and Florida Department of Transportation Standard Specifications for Road and Bridge Construction.

Erect permanent fence as a first order of business on all projects that include fencing where the Engineer determines that the fencing is necessary to maintain the security of livestock and other animals on adjacent property, or for protection of pedestrians who are likely to gain access to the project from adjacent property. Secure the right of way on Limited Access Facilities at all times by a fence, either temporary or permanent, that meets the height of the existing fence or the height required in the Contract.

IV. Maintenance of Traffic

Contractor shall provide Maintenance of Traffic and it shall conform to the requirements of the latest edition of the Florida Department of Transportation Design Standards.

Flagging will be required and only one traffic lane may be closed at a time. All construction signage shall be provided by the contractor.

V. Compensation

Payment shall be made on a monthly basis on work completed with a 5% retainage.

Columbia County Board of County Commissioners
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I-75 at SR 25 (US 41) Widening and Resurfacing

BID SUMMARY

(MUST PRECEDE ALL BID DOCUMENTS)

_____

BIDDER COMPANY LEGAL NAME

_____

MAILING ADDRESS, TELEPHONE NUMBER, AND EMAIL

DESCRIPTION OF PROJECT: Work on this project includes milling, resurfacing, and widening of the mainline, shoulders, auxiliary lanes, and ramps on SR 25 (US 41) at the interchange with I-75 in Columbia County; replacement of existing guardrail; construction of a stormwater management facility and drainage features; installation of new guide signs; construction of signalization features for the ramp intersections; retrofitting new luminaires on high mast light poles and underdeck lighting, and construction of new intersection lighting.

BID OPENING DATE & TIME: **October 30, 2025, 2:00 P.M.**

PLACE OF BID OPENING: **COLUMBIA COUNTY ADMINISTRATION**
135 NE HERNANDO AVENUE, SUITE 203
LAKE CITY, FL 32055

TOTAL BID AMOUNT (NUMERICAL): _____

TOTAL BID AMOUNT (IN WORDS):

_____

_____

BIDDER COMPANY NAME (PRINT OR TYPE)

_____

SIGNATURE OF AUTHORIZED COMPANY REPRESENTATIVE

_____

AUTHORIZED COMPANY REPRESENTATIVE (PRINT OR TYPE)

_____

DATE COMPLETED

IMPORTANT:

THIS BID SUMMARY MUST BE COMPLETED AND MUST PRECEDE ALL BIDDER PROPOSAL DOCUMENTS
***ALTERNATE BIDS TO BE SUBMITTED ON NEXT PAGE WHEN APPLICABLE**

Columbia County Board of County Commissioners
Columbia County Project No: 2025-12; FDOT FPID 445725-5-54-02
I-75 at SR 25 (US 41) Widening and Resurfacing

BID FORM

The undersigned, as bidder, hereby declares that he has examined the contract documents and informed himself fully in regard to all conditions pertaining to the work to be done; that he has examined the specifications for the work and other contract documents relative thereto; and that he has satisfied himself relative to the work to be performed.

The bidder agrees, if this bid is accepted, to contract with the Columbia County Board of County Commissioners to furnish everything necessary to complete the work covered by this bid and other contract documents for the Columbia County Board of County Commissioners. The Contractor assumes full responsibility for all quantities used in his/her bid. The contractor shall coordinate his construction with all proposed utilities on the site.

BIDDER NAME: _____

Columbia County Board of County Commissioners
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SCHEDULE OF VALUES					
ROADWAY					
PAY ITEM NO.	**PAY ITEM DESCRIPTION**	**QUANTITY**	**UNITS**	**UNIT PRICE**	**TOTAL COST**
0101 1	MOBILIZATION	1	LS		
0102 1	MAINTENANCE OF TRAFFIC	1	LS		
0102 2200	SPECIAL DETOUR- TEMPORARY PAVEMENT	499	SY		
0102 2300	SPECIAL DETOUR- TEMPORARY EARTHWORK/BASE	120.7	CY		
0102 60	WORK ZONE SIGN	5040	ED		
0102 71 13	TEMPORARY BARRIER, F&I, LOW PROFILE, CONCRETE	4075	LF		
0102 71 23	TEMPORARY BARRIER, RELOCATE, LOW PROFILE CONCRETE	3888	LF		
0102 74 1	CHANNELIZING DEVICE- TYPES I, II, DI, VP, DRUM, OR LCD	36344	ED		
0102 99	PORTABLE CHANGEABLE MESSAGE SIGN, TEMPORARY	738	ED		
0102115	TYPE III BARRICADE	120	ED		
0104 10 3	SEDIMENT BARRIER	2049	LF		
0104 12	STAKED TURBIDITY BARRIER- NYLON REINFORCED PVC	46	LF		
0104 15	SOIL TRACKING PREVENTION DEVICE	4	EA		
0104 18	INLET PROTECTION SYSTEM	11	EA		
0107 1	LITTER REMOVAL	164.00	AC		
0107 2	MOWING	164.00	AC		
0110 1 1	CLEARING & GRUBBING	8.30	AC		
0110 4 10	REMOVAL OF EXISTING CONCRETE	1228	SY		
0110 7 1	MAILBOX, F&I SINGLE	1	EA		
0120 1	REGULAR EXCAVATION	4918.0	CY		
0120 4	SUBSOIL EXCAVATION	9554.0	CY		
0120 6	EMBANKMENT	8892.0	CY		
0120 6	EMBANKMENT (SELECT FILL FOR SMF1 SUBSOIL REMOVAL BACKFILL)	5838.0	CY		
0160 4	TYPE B STABILIZATION	10248	SY		
0285701	OPTIONAL BASE, BASE GROUP 01	4486	SY		
0285709	OPTIONAL BASE, BASE GROUP 09	1391	SY		
0285710	OPTIONAL BASE, BASE GROUP 10	1319	SY		
0327 70 2	MILLING EXISTING ASPHALT PAVEMENT, 3 1/2" AVG DEPTH	4912	SY		
0327 70 6	MILLING EXISTING ASPHALT PAVEMENT, 1 1/2" AVG DEPTH	2141	SY		
0327 70 7	MILLING EXISTING ASPHALT PAVEMENT, 4" AVG DEPTH	20689	SY		
0334 1 57	SUPERPAVE ASPHALTIC CONCRETE, TRAFFIC C, HIGH POLYMER	3311.6	TN		
0334 1 59	SUPERPAVE ASPHALTIC CONCRETE, TRAFFIC E, HIGH POLYMER	929.3	TN		
0337 7 93	ASPHALT CONCRETE FRICTION COURSE,TRAFFIC C, FC-12.5, HIGH POLYMER	2052.3	TN		
0337 7 95	ASPHALT CONCRETE FRICTION COURSE,TRAFFIC E, FC-12.5, HIGH POLYMER	808.1	TN		
0339 1	MISCELLANEOUS ASPHALT PAVEMENT	122.5	TN		
0400 0 11	CONCRETE CLASS NS, GRAVITY WALL INDEX 400-011	15.5	CY		
0400 4 5	CONCRETE CLASS IV, BRIDGE SUBSTRUCTURE	70.4	CY		
0415 1 5	REINFORCING STEEL- BRIDGE SUBSTRUCTURE	21780	LB		
0425 1521	INLETS, DT BOT, TYPE C,<10'	1	EA		
0425 1541	INLETS, DT BOT, TYPE D, <10'	2	EA		
0425 1549	INLETS, DT BOT, TYPE D, MODIFY	1	EA		
0425 1561	INLETS, DT BOT, TYPE F, <10'	1	EA		
0425 2 41	MANHOLES, P-7, <10'	2	EA		
0425 2 61	MANHOLES, P-8, <10'	1	EA		
0425 2 71	MANHOLES, J-7, <10'	1	EA		
0425 2 91	MANHOLES, J-8, <10'	3	EA		
0430175118	PIPE CULVERT,OPTIONAL MATERIAL,ROUND, 18"S/CD	381	LF		
0430175124	PIPE CULVERT,OPTIONAL MATERIAL,ROUND, 24"S/CD	152	LF		
0430175136	PIPE CULVERT, OPT MATERIAL, ROUND, 36"S/CD	30	LF		
0430175224	PIPE CULVERT,OPTIONAL MATERIAL,OTHER SHAPE-ELIP/ARCH, 24"S/CD	297	LF		
0430524210	STRAIGHT CONCRETE ENDWALLS, 24", DOUBLE, 15 DEGREES, ROUND	1	EA		
0430830	PIPE FILLING AND PLUGGING- PLACE OUT OF SERVICE	15.7	CY		
0430982125	MITERED END SECTION, OPTIONAL ROUND, 18" CD	5	EA		
0430982129	MITERED END SECTION, OPTIONAL ROUND, 24" CD	1	EA		
0430982138	MITERED END SECTION, OPTIONAL ROUND, 36" CD	1	EA		
0430982629	MITERED END SECTION, OPTIONAL - ELLIPTICAL / ARCH, 24" CD	1	EA		
0430984133	MITERED END SECTION , OPTIONAL ROUND, 30" SD	2	EA		
0430991	MITERED END SECT, REPLACE SLAB- CONSTRUCTION USE	1	EA		
0520 1 7	CONCRETE CURB & GUTTER, TYPE E	2427	LF		
0520 5 11	TRAFFIC SEPARATOR CONCRETE-TYPE I, 4' WIDE	67	LF		
0520 6	SHOULDER GUTTER- CONCRETE	191	LF		
0520 70	CONCRETE TRAFFIC SEPARATOR, SPECIAL- VARIABLE WIDTH	93	SY		

0524 1 2	CONCRETE DITCH PAVEMENT, NON REINFORCED, 4"	701	SY		
0524 2 2	CONCRETE SLOPE PAVEMENT,NON REINFORCED, 4"	93	SY		
0530 3 4	RIPRAP, RUBBLE, F&I, DITCH LINING	20.8	TN		
0536 73	GUARDRAIL REMOVAL	1219	LF		
0536 1 1	GUARDRAIL -ROADWAY, GENERAL TL-3	994	LF		
0536 1 3	GUARDRAIL- ROADWAY, DOUBLE FACE	359	LF		
0536 85 20	GUARDRAIL END TREATMENT- TRAILING ANCHORAGE	2	EA		
0536 85 24	GUARDRAIL END TREATMENT- PARALLEL APPROACH TERMINAL	2	EA		
0536 85 27	GUARDRAIL END TREATMENT- DOUBLE FACE APPROACH TERMINAL	2	EA		
0536 85 29	GUARDRAIL END TREATMENT- DOUBLE FACE TRAILING ANCHORAGE	2	EA		
0570 1 2	PERFORMANCE TURF, SOD	27537	SY		
0570 1131	PERFORMANCE TURF, SEEDING- BAHIA 'ARGENTINE'	5004	SY		
0706 1 3	RAISED PAVEMENT MARKER, TYPE B	1709	EA		
0710 11101	PAINTED PAVEMENT MARKINGS, STANDARD, WHITE, SOLID, 6"	5.113	GM		
0710 11124	PAINTED PAVEMENT MARKINGS, STANDARD, WHITE, SOLID FOR DIAGONAL OR CHEVRON, 18"	410	LF		
0710 11125	PAINTED PAVEMENT MARKINGS, STANDARD, WHITE, SOLID FOR STOP LINE OR CROSSWALK, 24"	148	LF		
0710 11131	PAINTED PAVEMENT MARKINGS, STANDARD, WHITE, SKIP, 10-30 OR 3-9 SKIP, 6" WIDE	0.367	GM		
0710 11141	PAINTED PAVEMENT MARKINGS, STANDARD, WHITE, 2-4 DOTTED GUIDELINE/ 6-10 DOTTED EXTENSION, 6"	0.135	GM		
0710 11160	PAINTED PAVEMENT MARKINGS, STANDARD, WHITE, MESSAGE OR SYMBOL	9	EA		
0710 11170	PAINTED PAVEMENT MARKINGS, STANDARD, WHITE, ARROWS	102	EA		
0710 11180	PAINTED PAVEMENT MARKINGS, STANDARD, WHITE, YIELD LINE	17	LF		
0710 11201	PAINTED PAVEMENT MARKINGS, STANDARD, YELLOW, SOLID, 6"	3.463	GM		
0710 11224	PAINTED PAVEMENT MARKINGS, STANDARD, YELLOW, SOLID FOR DIAGONAL OR CHEVRON, 18"	797	LF		
0710 11231	PAINTED PAVEMENT MARKINGS, STANDARD, YELLOW, SKIP, 6"	0.195	GM		
0710 11241	PAINTED PAVEMENT MARKINGS, STANDARD, YELLOW, 2-4 DOTTED GUIDELINE/6-10 DOTTED EXTENSION, 6"	0.229	GM		
				ROADWAY SUBTOTAL	

SIGNING AND PAVEMENT MARKING					
PAY ITEM NO.	**PAY ITEM DESCRIPTION**	**QUANTITY**	**UNITS**	**UNIT PRICE**	**TOTAL COST**
0700 1111	SINGLE COLUMN GROUND SIGN ASSEMBLY, F&I GROUND MOUNT, LESS THAN 12 SF	29	EA		
0700 1112	SINGLE COLUMN GROUND SIGN ASSEMBLY, F&I GROUND MOUNT, 12.0-20.0 SF	10	EA		
0700 1113	SINGLE COLUMN GROUND SIGN ASSEMBLY, F&I GROUND MOUNT, 20.1-30.0 SF	8	EA		
0700 1500	SINGLE COLUMN GROUND SIGN ASSEMBLY, RELOCATE	16	EA		
0700 1600	SINGLE COLUMN GROUND SIGN ASSEMBLY, REMOVE	25	EA		
0700 2115	MULTI-COLUMN GROUND SIGN ASSEMBLY, F&I GROUND MOUNT, 50.1-100.0 SF	8	EA		
0700 2116	MULTI-COLUMN GROUND SIGN ASSEMBLY, F&I GROUND MOUNT, 100.1-200.0 SF	2	EA		
0700 2117	MULTI-COLUMN GROUND SIGN ASSEMBLY, F&I GROUND MOUNT, 200.1-300.0 SF	2	EA		
0700 2600	MULTI-COLUMN GROUND SIGN ASSEMBLY, REMOVE	5	EA		
0700 3501	SIGN PANEL, RELOCATE, UP TO 12 SF	3	EA		
0700 13 15	RETROREFLECTIVE SIGN STRIP- FURNISH AND INSTALL, 5'	20	EA		
0705 10 3	OBJECT MARKER, TYPE 3	4	EA		
0705 11 1	DELINEATOR, FLEXIBLE TUBULAR	13	EA		
0705 11 2	DELINEATOR, NON-FLEXIBLE	13	EA		
0706 1 3	RAISED PAVEMENT MARKER, TYPE B	1134	EA		
0710 12290	PAINTED PAVEMENT MARKINGS, DURABLE PAINT, YELLOW, ISLAND NOSE	156	SF		
0710 90	PAINTED PAVEMENT MARKINGS, FINAL SURFACE	1	LS		
0711 11102	THERMOPLASTIC, STANDARD, WHITE, SOLID, 8" FOR INTERCHANGE AND URBAN ISLAND	0.259	GM		
0711 11124	THERMOPLASTIC, STANDARD, WHITE, SOLID, 18" FOR DIAGONALS AND CHEVRONS	1201	LF		
0711 11125	THERMOPLASTIC, STANDARD, WHITE, SOLID, 24" FOR STOP LINE AND CROSSWALK	326	LF		
0711 11141	THERMOPLASTIC, STANDARD, WHITE, 2-4 DOTTED GUIDELINE/ 6-10 GAP EXTENSION, 6"	0.078	GM		
0711 11160	THERMOPLASTIC, STANDARD, WHITE, MESSAGE OR SYMBOL	36	EA		
0711 11170	THERMOPLASTIC, STANDARD, WHITE, ARROW	87	EA		
0711 11180	THERMOPLASTIC, STANDARD, WHITE, YIELD LINE	34	LF		
0711 11224	THERMOPLASTIC, STANDARD, YELLOW, SOLID, 18" FOR DIAGONAL OR CHEVRON	763	LF		
0711 11241	THERMOPLASTIC, STANDARD, YELLOW, 2-4 DOTTED GUIDE LINE /6-10 DOTTED EXTENSION LINE, 6"	0.998	GM		
0711 16101	THERMOPLASTIC, STANDARD-OTHER SURFACES, WHITE, SOLID, 6"	2.179	GM		
0711 16131	THERMOPLASTIC, STANDARD-OTHER SURFACES, WHITE, SKIP, 6",10-30 SKIP OR 3-9 LANE DROP	0.307	GM		
0711 16133	THERMOPLASTIC, STANDARD-OTHER SURFACES WHITE, SKIP, 12"- 3-9 LANE DROP	0.219	GM		
0711 16201	THERMOPLASTIC, STANDARD-OTHER SURFACES, YELLOW, SOLID, 6"	1.925	GM		
0711 16231	THERMOPLASTIC, STANDARD-OTHER SURFACES, YELLOW, SKIP, 6"	0.150	GM		
				SIGNING AND PAVEMENT MARKING SUBTOTAL	

SIGNALIZATION					
PAY ITEM NO.	**PAY ITEM DESCRIPTION**	**QUANTITY**	**UNITS**	**UNIT PRICE**	**TOTAL COST**
0630 2 11	CONDUIT, FURNISH & INSTALL, OPEN TRENCH	352	LF		
0630 2 12	CONDUIT, FURNISH & INSTALL, DIRECTIONAL BORE	924	LF		
0632 7 1	SIGNAL CABLE- NEW OR RECONSTRUCTED INTERSECTION, FURNISH & INSTALL	2	PI		
0634 4153	SPAN WIRE ASSEMBLY, F&I, TWO POINT, BOX OR DROP BOX	2	PI		
0635 2 11	PULL & SPLICE BOX, F&I, 13" x 24" COVER SIZE	30	EA		
0639 1122	ELECTRICAL POWER SERVICE, F&I, UNDERGROUND, METER PURCHASED BY CONTRACTOR	2	AS		
0639 2 1	ELECTRICAL SERVICE WIRE, FURNISH & INSTALL	304	LF		
0639 3 11	ELECTRICAL SERVICE DISCONNECT, F&I, POLE MOUNT	3	EA		
0641 2 12	PRESTRESSED CONCRETE POLE, F&I, TYPE P-II SERVICE POLE	5	EA		
0641 2 18	PRESTRESSED CONCRETE POLE, F&I, TYPE P-VIII	8	EA		
0650 1 14	VEHICULAR TRAFFIC SIGNAL, FURNISH & INSTALL ALUMINUM, 3 SECTION, 1 WAY	24	AS		
0650 1 16	VEHICULAR TRAFFIC SIGNAL, FURNISH & INSTALL ALUMINUM, 4 SECTION, 1 WAY	1	AS		
0660 4 31	VEHICLE DETECTION SYSTEM- VIDEO, INSTALL CABINET EQUIPMENT	2	EA		
0660 4 32	VEHICLE DETECTION SYSTEM- VIDEO, INSTALL ABOVE GROUND EQUIPMENT	6	EA		
0670 5300	TRAFFIC CONTROLLER ASSEMBLY, INSTALL	2	AS		
0682 1153	ITS CCTV CAMERA, F&I, STATIONARY, IP, HIGH DEFINITION	2	EA		
0682 1300	ITS CCTV CAMERA, INSTALL	2	EA		
0685 1 30	UNINTERRUPTIBLE POWER SUPPLY, INSTALL - EQUIPMENT FURNISHED BY OTHERS	2	EA		
0700 3201	SIGN PANEL, FURNISH & INSTALL OVERHEAD MOUNT, UP TO 12 SF	12	EA		
0700 3202	SIGN PANEL, FURNISH & INSTALL OVERHEAD MOUNT, 12-20 SF	6	EA		
				SIGNALIZATION SUBTOTAL	

INTELLIGENT TRANSPORTATION SYSTEMS					
PAY ITEM NO.	**PAY ITEM DESCRIPTION**	**QUANTITY**	**UNITS**	**UNIT PRICE**	**TOTAL COST**
0611 1 1	ITSFM SUBSURFACE DOCUMENTATION- PROJECT LENGTH	0.588	MI		
0611 2 1	ITSFM LOCATION DOCUMENTATION- INTERSECTION	3	EA		
0630 2 11	CONDUIT, FURNISH & INSTALL, OPEN TRENCH	2453	LF		
0630 2 12	CONDUIT, FURNISH & INSTALL, DIRECTIONAL BORE	802	LF		
0633 1121	FIBER OPTIC CABLE, F&I, UNDERGROUND,2-12 FIBERS	1444	LF		
0633 1122	FIBER OPTIC CABLE, F&I, UNDERGROUND,13-48 FIBERS	4816	LF		
0633 2 31	FIBER OPTIC CONNECTION, INSTALL, SPLICE	40	EA		
0633 2 32	FIBER OPTIC CONNECTION, INSTALL, TERMINATION	48	EA		
0633 3 11	FIBER OPTIC CONNECTION HARDWARE, F&I, SPLICE ENCLOSURE	3	EA		
0633 3 12	FIBER OPTIC CONNECTION HARDWARE, F&I, SPLICE TRAY	6	EA		
0633 3 14	FIBER OPTIC CONNECTION HARDWARE, F&I, BUFFER TUBE FAN OUT KIT	4	EA		
0633 3 16	FIBER OPTIC CONNECTION HARDWARE, F&I, PATCH PANEL- FIELD TERMINATED	2	EA		
0633 6	FIBER OPTIC CABLE LOCATOR	200	DA		
0635 2 12	PULL & SPLICE BOX, F&I, 24" X 36" COVER SIZE	16	EA		
0635 2 13	PULL & SPLICE BOX, F&I, 30" X 60" RECTANGULAR OR 36" ROUND COVER SIZE	4	EA		
0684 1 3	MANAGED FIELD ETHERNET SWITCH, INSTALL	3	EA		
				INTELLIGENT TRANSPORTATION SYTEMS SUBTOTAL	

LIGHTING					
PAY ITEM NO.	**PAY ITEM DESCRIPTION**	**QUANTITY**	**UNITS**	**UNIT PRICE**	**TOTAL COST**
0630 2 11	CONDUIT, FURNISH & INSTALL, OPEN TRENCH	526	LF		
0630 2 12	CONDUIT, FURNISH & INSTALL, DIRECTIONAL BORE	1166	LF		
0635 2 11	PULL & SPLICE BOX, F&I, 13" x 24" COVER SIZE	13	EA		
0715 1 13	LIGHTING CONDUCTORS, F&I, INSULATED, NO 4 TO NO 2	8923	LF		
0715 1 60	LIGHTING CONDUCTORS, REMOVE & DISPOSE, CONTRACTOR OWNS	5442	LF		
0715 7 21	LOAD CENTER, REWORK, SECONDARY VOLTAGE	2	EA		
0715 11212	LUMINAIRE, F&I- REPLACE EXISTING LUMINAIRE ON EXISTING POLE/ARM, ROADWAY HIGH MAST	33	EA		
0715 11225	LUMINAIRE, F&I- REPLACE EXISTING LUMINAIRE, ROADWAY, WALL MOUNT	4	EA		
0715 61300	LIGHT POLE COMPLETE, F&I, STD POLE STD FOUNDATION, 40' MOUNTING HEIGHT, 0' ARM LENGTH	1	EA		
0715 61342	LIGHT POLE COMPLETE, F&I, STD POLE STD FOUNDATION, 40' MOUNTING HEIGHT, 12' ARM LENGTH	2	EA		
0715 61352	LIGHT POLE COMPLETE, F&I, STD POLE STD FOUNDATION, 40' MOUNTING HEIGHT, 15' ARM LENGTH	4	EA		
0715500 1	POLE CABLE DISTRIBUTION SYSTEM, FURNISH AND INSTALL, CONVENTIONAL	7	EA		
				LIGHTING SUBTOTAL	

Columbia County Board of County Commissioners
Columbia County Project No: 2025-12; FDOT FPID 445725-5-54-02
I-75 at SR 25 (US 41) Widening and Resurfacing

ACKNOWLEDGEMENT OF ADDENDA

Bidder hereby acknowledges receipt of the following Addenda, issued by the County and incorporated into and made a part of the ITB Documents. By acknowledging the Addenda listed below, Bidder hereby certifies that the information, clarifications, revisions, or other items included in each Addenda have been incorporated into the Bidder's Bid. Failure to acknowledge and incorporate issued Addenda may result in a Bidder being deemed non-responsive to the requirements of the ITB and removed from further consideration.

ADDENDUM NUMBER	DATE RECEIVED	PRINT NAME OF BIDDER'S AUTHORIZED REPRESENTATIVE	SIGNATURE OF BIDDER'S AUTHORIZED REPRESENTATIVE

BID TOTAL FOR I-75 AT SR 25 (US 41) WIDENING AND RESURFACING

Columbia County Board of County Commissioners
Columbia County Project No: 2025-12; FDOT FPID 445725-5-54-02
I-75 at SR 25 (US 41) Widening and Resurfacing

ALL ITEMS MAY BE INCREASED, DECREASED, OR OMITTED AS DIRECTED BY THE ENGINEER.

ALL MATERIALS AND CONSTRUCTION SHALL CONFORM TO BOTH THE REQUIREMENTS OF THE LATEST FDOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION AND THE LATEST FDOT DESIGN STANDARDS.

ALL INCIDENTAL WORK INCLUDED IN THESE ITEMS.

ALL UNIT PRICE AND TOTAL SPACES MUST BE FILLED IN TO CORRELATE WITH EACH ITEM.

Note: contractors shall be in compliance with chapter 489, Florida statutes, licensure requirements.

Florida construction industries licensing board certification.

_____ _____
(name of holder) (certificate no.)

In witness whereof, the bidder has hereunto set his signature and affixed his seal

this _____day of _____, A.D. 20___

_____
(seal)

By: _____

Title: _____

Type or print name of firm: _____

Address: _____

Contact Person: _____

Telephone No.: _____

Fax no.: _____

Columbia County Board of County Commissioners
Columbia County Project No: 2025-12; FDOT FPID 445725-5-54-02
I-75 at SR 25 (US 41) Widening and Resurfacing

CHECKLIST

- □ Bid Summary
- □ Bid Form
- □ Acknowledgement of Addenda
- □ Sworn Statement on Public Entity Crimes
- □ References
- □ E-Verify Form
- □ Subcontractor Listing
- □ Conflict of Interest Statement
- □ Drug Free Workplace Certificate
- □ Non-Collusion Affidavit
- □ Human Trafficking Affidavit
- □ Equal Opportunity/Affirmative Action Statement
- □ Form W-9
- □ Bid Bond
- □ Copies of Applicable Business & Professional Licenses
- □ Proof of Insurance
- □ Any other documents in accordance with specifications

ATTACHMENTS

Attachment "A"	Public Entity Crimes Sworn Statement
Attachment "B"	References Form
Attachment "C"	E-Verify Form
Attachment "D"	Subcontractor Listing
Attachment "E"	Conflict of Interest Statement
Attachment "F"	Drug Free Workplace Certificate
Attachment "G"	Non-Collusion Affidavit
Attachment "H"	Human Trafficking Affidavit
Attachment "I"	Equal Opportunity/Affirmative Action Statement
Attachment "J"	Form W-9
Attachment "K"	Sample Construction Agreement
Attachment "L"	Equipment Furnished by Columbia County

EXHIBITS

Exhibit "A"	Construction Plans – Roadway Plans
Exhibit "B"	Construction Plans – Signing and Pavement Marking Plans
Exhibit "C"	Construction Plans – Signalization Plans
Exhibit "D"	Construction Plans – Intelligent Transportation System Plans
Exhibit "E"	Construction Plans – Lighting Plans
Exhibit "F"	Geotechnical Reports
Exhibit "G"	FDOT State-Funded Grant Agreement

ATTACHMENT A
Public Entity Crimes Statement

SWORN STATEMENT UNDER SECTION 287.133(3) (a), FLORIDA STATUTES: THIS FORM MUST BE SIGNED IN THE PRESENCE OF A NOTARY PUBLIC OR OTHER OFFICER AUTHORIZED TO ADMINISTER OATHS.

1. This sworn statement is submitted with Proposal, ITN, or Contract Number

2. This sworn statement is submitted by _____
[Name of entity submitting sworn statement]
whose business address is _____ and (if applicable) its Federal Employer Identification Number (FEIN) is _____
(If the entity has no FEIN, include the Social Security Number of the individual signing this sworn statement: _____.

3. My name is _____ and my relationship to the above is
[Please print name of individual signing]
_____.

4. I understand that a "public entity crime" as defined in section 287.133(l)(g), Florida Statutes, means 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 proposal or contract for goods or services to be provided to any public entity or an agency or political subdivision and involving antitrust, fraud, theft, bribery, collusion, racketeering, conspiracy, or material misrepresentation.

5. I understand that "convicted" or "conviction" as defined in section 287.133(l) (b), Florida Statutes, means a finding of guilt or a conviction of a public entity crime, with or without an adjudication of guilt, in any federal or state trial court of record relating to charges brought by indictment or information after July 1, 1989, as a result of a jury verdict, non-jury trial, or entry of a plea of guilty or nolo contenders.

6. I understand that "affiliate" as defined in section 287.133(l) (a), Florida Statutes, means:

   a. A predecessor or successor of a person convicted of a public entity crime; or

   b. An entity under the control of any natural person who is active in the management of the entity and who has been convicted of a public entity crime. The term "affiliate" includes those officers, directors, executives, partners, shareholders, employees, members, and agents who are active in the management of an affiliate. The ownership by one person of shares constituting a controlling interest in another person, or a pooling of equipment or income among persons when not for fair market value under an arm's length agreement, shall be a prima facie case that one person controls another person. A person who knowingly enters into a joint venture with a person who has been convicted of a public entity crime in Florida during the preceding thirty-six (36) months shall be considered an affiliate.

7. I understand that a "person" as defined in section 287.133(l) (e), Florida Statutes, means any natural person or entity organized under the laws of any state or of the United States with the legal power to enter into a binding contract and which bids/proposals or applies to bids/proposals on contracts for the provision of goods or services let by a public entity, or which otherwise transacts or applies to transact business with a public entity. The term "person" includes those officers, directors, executives, partners, shareholders, employees, members, and agents who are active in management of an entity.

8. Based on information and belief, the statement, which I have marked below, is true in relation to the entity submitting this sworn statement. **[Please indicate which statement applies].**

_____ Neither the entity submitting this sworn statement, nor any officers, directors, executives, partners, shareholders, employees, members, or agents who is active in the management of the entity, nor any affiliate of the entity have been convicted of a public entity crime subsequent to July 1, 1989.

_____ The entity submitting this sworn statement, or one or more of the officers, directors, executives, partners, shareholders, employees, members, or agents who are active in the management of the entity, or an affiliate of the entity has been charged with and convicted of a public entity crime subsequent to July 1, 1989, AND **[Please indicate which additional statement applies].**

_____ There has been a proceeding concerning the conviction before a judge or hearing officer of the State of Florida, Division of Administrative Hearings, or a court of law having proper jurisdiction. The final order entered by the hearing officer or judge did not place the person or affiliate on the convicted Contractor list. **[Please attach a copy of the final order.]**

_____ The person or affiliate was placed on the convicted Contractor list. There has been a subsequent proceeding before a court of law having proper jurisdiction or a judge or hearing officer of the State of Florida, Division of Administrative Hearings. The final order entered by the judge or hearing officer determined that is was in the public interest to remove the person or affiliate from the convicted Contractor list. **[Please attach a copy of the final order.]**

_____ The person or affiliate has not been placed on any convicted vendor list. [Please describe any action taken by or pending with the State of Florida, Department of Management Services.]

By the signature(s) below, I/we, the undersigned, as authorized signatory to commit the firm, certify that the information as provided in Attachment "C", Public Entity Crimes, is truthful and

correct at the time of submission.

_____
AFFIANT

_____
Typed Name of AFFIANT

_____
Title

STATE OF _____

County OF _____

The foregoing instrument was executed before me this day _____ of _____ 20____, by _____ as _____ of _____, who personally swore or affirmed that he/she is authorized to execute this document and thereby bind the Corporation, and who is personally known to me OR has produced _____ as identification.

(stamp) NOTARY PUBLIC, State of _____

ATTACHMENT B
REFERENCE FORM

Respondent's Name: _____

The Respondent must list three (3) separate and verifiable clients, other than Columbia County, for which work similar to that specified in this solicitation has been performed for a period of at least one (1) continuous year(s). Any information not submitted on this attachment shall not be considered. The clients listed shall be for services similar in nature to that described in this solicitation. The same client may not be listed as more than one (1) reference (for example, if the Respondent has completed one project for the Florida Department of Transportation – District One and one project for the Florida Department of Transportation – District Two, only one (1) of the projects may be listed because the client, the Florida Department of Transportation, is the same). Confidential clients shall not be included.

Company Name:	
Address:	
Contact Name:	
Alternate Contact Name:	
Phone:	
Email:	
Description of Work:	
Service Dates: Dates must demonstrate at least one (1) continuous year(s)	**Start:** **End:**
Approximate Contract Value:	**$**

Company Name:	
Address:	
Contact Name:	
Alternate Contact Name:	
Phone:	
Email:	
Description of Work:	
Service Dates: Dates must demonstrate at least one (1) continuous year(s)	**Start:** **End:**
Approximate Contract Value:	**$**

Company Name:	
Address:	
Contact Name:	
Alternate Contact Name:	
Phone:	
Email:	
Description of Work:	
Service Dates: Dates must demonstrate at least one (1) continuous year(s)	**Start:** **End:**
Approximate Contract Value:	**$**

_____ _____

***Authorized Representative's Signature** ***Typed Name and Title of Authorized Representative**

***This individual must have the authority to bind the respondent**

ATTACHMENT C

E-VERIFY AFFIDAVIT

In accordance with Section 448.095, Florida Statutes, the City requires all contractors doing business with the City to register with and use the E-Verify system to verify the work authorization status of all newly hired employees. The City will not enter into a contract unless each party to the contract registers with and uses the E-Verify system.

The contracting entity must provide of its proof of enrollment in E-Verify. For instructions on how to provide proof of the contracting entity's participation/enrollment in E-Verify, please visit: https://www.e-verify.gov/faq/how-do-i-provide-proof-of-my-participationenrollment-in-e-verify

By signing below, the contracting entity acknowledges that it has read Section 448.095, Florida Statutes and will comply with the E-Verify requirements imposed by it, including but not limited to obtaining E-Verify affidavits from subcontractors.

☐ **Check here to confirm proof of enrollment in E-Verify has been attached to this Affidavit.**

In the presence of:

Witness #1 Print Name:_____

Witness #2 Print Name:_____

Signed, sealed and delivered by:

Print Name:_____

Title:_____

Entity Name:_____

ACKNOWLEDGMENT

State of Florida

County of _____

The foregoing instrument was acknowledged before me by means of ☐ physical presence or ☐ online notarization, this _____ day of _____, 20____, by _____(name of person) as _____(type of authority) for _____(name of party on behalf of whom instrument is executed).

_____
Notary Public (Print, Stamp, or Type as Commissioned)

_____ Personally known to me; or

_____ Produced identification (Type of Identification:_____)

_____ Did take an oath; or

_____ Did not take an oath

ATTACHMENT D
LIST OF SUBCONTRACTORS

Each Respondent shall submit with its bid a list of the subcontractors who will perform work under the contract(s) that result from this solicitation. The Respondent shall have determined to its complete satisfaction that a listed subcontractor has been successfully engaged in similar scope/services as required by this solicitation and is qualified to provide the services for which it is listed.

In the event that no subcontractor will be used, this list shall be returned indicating "No subcontractors will be used."

NO SUBCONTRACTORS WILL BE USED: □

Subcontractor Name:		Subcontractor Name:	
Business Type:		Business Type:	
Address:		Address:	
City and Zip:		City and Zip:	
Phone #:		Phone #:	
Licenses #:		Licenses #:	

Subcontractor Name:		Subcontractor Name:	
Business Type:		Business Type:	
Address:		Address:	
City and Zip:		City and Zip:	
Phone #:		Phone #:	
Licenses #:		Licenses #:	

Respondent Name:_____ Date:_____

_____

***Authorized Representative's Signature**

_____

***Typed Name and Title of Authorized Representative**

***This individual must have the authority to bind the respondent.**

ATTACHMENT E
Conflict of Interest Statement

STATE OF _____

County OF _____

Before me, the undersigned authority, personally appeared _____, who was duly sworn, deposes, and states:

I am the_____ of _____with a local office
(Insert Title) (Insert Company Name)
in_____ and principal office in _____. Said entity is submitting this proposal/offer to

1. The AFFIANT has made diligent inquiry and provided the information in this statement affidavit based upon its full knowledge.

2. The AFFIANT states that only one submittal for this solicitation has been submitted and tendered by the appropriate date and time and that said above stated entity has no financial interest in other entities submitting a proposal for the work contemplated hereby.

3. Neither the AFFIANT nor the above named entity has directly or indirectly entered into any agreement, participated in any collusion or collusive activity, or otherwise taken any action which in any way restricts or restraints the competitive nature of this solicitation, including but not limited to the prior discussion of terms, conditions, pricing, or other offer parameters required by this solicitation.

4. Neither the entity nor its affiliates, nor anyone associated with them, is presently suspended or otherwise prohibited from participation in this solicitation or any contract to follow thereafter by any government entity.

5. Neither the entity nor its affiliates, nor anyone associated with them, have any potential conflict of interest because and due to any other clients, contracts, or property interests in this solicitation or the resulting project.

6. I hereby also certify that no member of the entity's ownership or management or staff has a vested interest in any County Office or Department.

7. I certify that no member of the entity's ownership or management is presently applying, actively seeking, or has been selected for an elected position within Columbia County government.

8. In the event that a conflict of interest is identified in the provision of services, I, the undersigned will immediately notify the County in writing.

_____

AFFIANT

_____

Typed Name of AFFIANT

_____

Title

STATE OF _____

County OF _____

The foregoing instrument was executed before me this day _____ of _____ 20____, by _____ as _____ of _____, who personally swore or affirmed that he/she is authorized to execute this document and thereby bind the Corporation, and who is personally known to me OR has produced _____ as identification.

(stamp)

NOTARY PUBLIC, State of _____

ATTACHMENT F
Drug-Free Workplace Certification

The drug-free certification form below must be signed and returned with the solicitation response.

In order to have a drug-free workplace program, a business shall:

1. Publish a statement notifying employees that the unlawful manufacture, distribution, dispensing, possession, or use of a controlled substance is prohibited in the workplace and specifying the actions that will be taken against employees for violations of such prohibition.

2. Inform employees about the dangers of drug abuse in the workplace, the business' policy of maintaining a drug-free workplace, any available drug counseling, rehabilitation, and employee assistance programs, and the penalties that may be imposed upon employees for drug abuse violations.

3. Give each employee engaged in providing the commodities or contractual services that are under bid/proposal a copy of the statement specified in the first paragraph.

4. In the statement specified in the first paragraph, notify the employees that, as a condition of working on the commodities or contractual services that are under bid/proposal, the employee will abide by the terms of the statement and will notify the employer of any conviction of, or plea of guilty or nolo contendere to, any violation of chapter 893, Florida Statutes, or of any controlled substance law of the United States or any state, for a violation occurring in the workplace no later than five (5) Days after such conviction.

5. Impose a sanction on, or require 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.

6. Make a good faith effort to continue to maintain a drug-free workplace through implementation of the foregoing provisions.

By the signature(s) below, I/we, the undersigned, as authorized signatory to commit the firm, certify that the information as provided in this Drug-Free Workplace Certification, is truthful and correct at the time of submission.

_____
AFFIANT

_____
Typed Name of AFFIANT

_____
Title

STATE OF _____

County OF _____
The foregoing instrument was executed before me this day _____ of _____ 20____, by _____ as _____ of _____, who personally swore or affirmed that he/she is authorized to execute this document and thereby bind the Corporation, and who is personally known to me OR has produced _____ as identification.

(stamp) NOTARY PUBLIC, State of _____

ATTACHMENT G
Non-Collusion Affidavit

STATE OF _____

COUNTY OF _____

I state that I _____ of _____,
(Name and Title) (Name of Firm)
am authorized to make this affidavit on behalf of my firm and its owner, directors and officers. I am the person responsible in my firm for the price(s) and amount(s) of this Response, and the preparation of the Response. I state that:

1. The price(s) and amount(s) of this Response have been arrived at independently and without consultation, communication or agreement with any other Provider, potential provider, Proposal, or potential Proposal.

2. Neither the price(s) nor the amount(s) of this Response, and neither the approximate price(s) nor approximate amount(s) of this Response, have been disclosed to any other firm or person who is a Provider, potential Provider, Proposal, or potential Proposal, and they will not be disclosed before Proposal opening.

3. No attempt has been made or will be made to induce any firm or persons to refrain from submitting a Response for this contract, or to submit a price(s) higher that the prices in this Response, or to submit any intentionally high or noncompetitive price(s) or other form of complementary Response.

4. The Response of my firm is made in good faith and not pursuant to any agreement or discussion with, or inducement from, any firm or person to submit a complementary or other noncompetitive Response.

5. _____, its affiliates, subsidiaries, officers, director, and employees
(Name of Firm)
are not currently under investigation, by any governmental agency and have not in the last three years been convicted or found liable for any act prohibited by State or Federal law in any jurisdiction, involving conspiracy or collusion with respect to Proposal, on any public contract, except as follows:

I state that I and the named firm understand and acknowledge that the above representations are material and important, and will be relied on by the Board of County Commissioners of Columbia County, Florida for which this Response is submitted. I understand and my firm understands that any misstatement in this affidavit is, and shall be treated as, fraudulent concealment from the State of Florida of the true facts relating to the submission of responses for this contract.

Dated this _____ day of _____, _____.

Name of Organization: _____

Signed by: _____

Print Name: _____

Being duly sworn deposes and says that the information herein is true and sufficiently complete so as not to be misleading.

The foregoing instrument was executed before me this day _____ of _____ 20____, by _____ as _____ of _____, who personally swore or affirmed that he/she is authorized to execute this document and thereby bind the Corporation, and who is personally known to me OR has produced _____ as identification.

_____

(stamp) NOTARY PUBLIC, State of _____

ATTACHMENT H

HUMAN TRAFFICKING AFFIDAVIT

Affiant swears under pain and penalty of perjury that the company or entity does not use coercion for labor or services as defined by Florida Statute § 787.06 which is hereby incorporated by reference.

_____

(Company or Entity Name)

Affiant who is an Officer/Authorized Representative of Company or Entity:

_____

(Signature)

_____

(Printed Name)

_____

(Date)

STATE OF _____)

COUNTY OF _____)

Sworn to and subscribed before me this _____ day of _____, 202__ by _____, by means of physical presence and _____who is personally known to me or _____ has produced _____ as identification.

_____

(NOTARY STAMP) Notary Public

ATTACHMENT I
EQUAL OPPORTUNITY/AFFIRMATIVE ACTION STATEMENT

1. The Contractors and subcontractors hereby agree to a commitment to the principles and practices of equal opportunity in employment and to comply with the letter and spirit of federal, state, and local laws and regulations prohibiting discrimination based on race, color, religion, national region, sex, age, handicap, marital status, and political affiliation or belief.

2. The Contractor agrees to comply with Executive Order 11246, as amended, and to comply with specific affirmative action obligations contained therein.

Signed: _____

Title: _____

Firm: _____

Address: _____

City, State, Zip: _____

Form **W-9**
(Rev. October 2018)
Department of the Treasury
Internal Revenue Service

Request for Taxpayer Identification Number and Certification

▶ Go to *www.irs.gov/FormW9* for instructions and the latest information.

Give Form to the requester. Do not send to the IRS.

Print or type. See Specific Instructions on page 3.

1 Name (as shown on your income tax return). Name is required on this line; do not leave this line blank.

2 Business name/disregarded entity name, if different from above

3 Check appropriate box for federal tax classification of the person whose name is entered on line 1. Check only one of the following seven boxes.

☐ Individual/sole proprietor or single-member LLC ☐ C Corporation ☐ S Corporation ☐ Partnership ☐ Trust/estate

☐ Limited liability company. Enter the tax classification (C=C corporation, S=S corporation, P=Partnership) ▶ _____

Note: Check the appropriate box in the line above for the tax classification of the single-member owner. Do not check LLC if the LLC is classified as a single-member LLC that is disregarded from the owner unless the owner of the LLC is another LLC that is not disregarded from the owner for U.S. federal tax purposes. Otherwise, a single-member LLC that is disregarded from the owner should check the appropriate box for the tax classification of its owner.

☐ Other (see instructions) ▶

4 Exemptions (codes apply only to certain entities, not individuals; see instructions on page 3):

Exempt payee code (if any) _____

Exemption from FATCA reporting code (if any) _____

(Applies to accounts maintained outside the U.S.)

5 Address (number, street, and apt. or suite no.) See instructions.

Requester's name and address (optional)

6 City, state, and ZIP code

7 List account number(s) here (optional)

Part I Taxpayer Identification Number (TIN)

Enter your TIN in the appropriate box. The TIN provided must match the name given on line 1 to avoid backup withholding. For individuals, this is generally your social security number (SSN). However, for a resident alien, sole proprietor, or disregarded entity, see the instructions for Part I, later. For other entities, it is your employer identification number (EIN). If you do not have a number, see *How to get a TIN*, later.

Note: If the account is in more than one name, see the instructions for line 1. Also see *What Name and Number To Give the Requester* for guidelines on whose number to enter.

Social security number

			–			–				

or

Employer identification number

		–							

Part II Certification

Under penalties of perjury, I certify that:

1. The number shown on this form is my correct taxpayer identification number (or I am waiting for a number to be issued to me); and
2. I am not subject to backup withholding because: (a) I am exempt from backup withholding, or (b) I have not been notified by the Internal Revenue Service (IRS) that I am subject to backup withholding as a result of a failure to report all interest or dividends, or (c) the IRS has notified me that I am no longer subject to backup withholding; and
3. I am a U.S. citizen or other U.S. person (defined below); and
4. The FATCA code(s) entered on this form (if any) indicating that I am exempt from FATCA reporting is correct.

Certification instructions. You must cross out item 2 above if you have been notified by the IRS that you are currently subject to backup withholding because you have failed to report all interest and dividends on your tax return. For real estate transactions, item 2 does not apply. For mortgage interest paid, acquisition or abandonment of secured property, cancellation of debt, contributions to an individual retirement arrangement (IRA), and generally, payments other than interest and dividends, you are not required to sign the certification, but you must provide your correct TIN. See the instructions for Part II, later.

Sign Here Signature of U.S. person ▶ Date ▶

General Instructions

Section references are to the Internal Revenue Code unless otherwise noted.

Future developments. For the latest information about developments related to Form W-9 and its instructions, such as legislation enacted after they were published, go to *www.irs.gov/FormW9*.

Purpose of Form

An individual or entity (Form W-9 requester) who is required to file an information return with the IRS must obtain your correct taxpayer identification number (TIN) which may be your social security number (SSN), individual taxpayer identification number (ITIN), adoption taxpayer identification number (ATIN), or employer identification number (EIN), to report on an information return the amount paid to you, or other amount reportable on an information return. Examples of information returns include, but are not limited to, the following.

- Form 1099-INT (interest earned or paid)
- Form 1099-DIV (dividends, including those from stocks or mutual funds)
- Form 1099-MISC (various types of income, prizes, awards, or gross proceeds)
- Form 1099-B (stock or mutual fund sales and certain other transactions by brokers)
- Form 1099-S (proceeds from real estate transactions)
- Form 1099-K (merchant card and third party network transactions)
- Form 1098 (home mortgage interest), 1098-E (student loan interest), 1098-T (tuition)
- Form 1099-C (canceled debt)
- Form 1099-A (acquisition or abandonment of secured property)

Use Form W-9 only if you are a U.S. person (including a resident alien), to provide your correct TIN.

If you do not return Form W-9 to the requester with a TIN, you might be subject to backup withholding. See What is backup withholding, *later.*

By signing the filled-out form, you:

1. Certify that the TIN you are giving is correct (or you are waiting for a number to be issued),

2. Certify that you are not subject to backup withholding, or

3. Claim exemption from backup withholding if you are a U.S. exempt payee. If applicable, you are also certifying that as a U.S. person, your allocable share of any partnership income from a U.S. trade or business is not subject to the withholding tax on foreign partners' share of effectively connected income, and

4. Certify that FATCA code(s) entered on this form (if any) indicating that you are exempt from the FATCA reporting, is correct. See *What is FATCA reporting,* later, for further information.

Note: If you are a U.S. person and a requester gives you a form other than Form W-9 to request your TIN, you must use the requester's form if it is substantially similar to this Form W-9.

Definition of a U.S. person. For federal tax purposes, you are considered a U.S. person if you are:

- An individual who is a U.S. citizen or U.S. resident alien;
- A partnership, corporation, company, or association created or organized in the United States or under the laws of the United States;
- An estate (other than a foreign estate); or
- A domestic trust (as defined in Regulations section 301.7701-7).

Special rules for partnerships. Partnerships that conduct a trade or business in the United States are generally required to pay a withholding tax under section 1446 on any foreign partners' share of effectively connected taxable income from such business. Further, in certain cases where a Form W-9 has not been received, the rules under section 1446 require a partnership to presume that a partner is a foreign person, and pay the section 1446 withholding tax. Therefore, if you are a U.S. person that is a partner in a partnership conducting a trade or business in the United States, provide Form W-9 to the partnership to establish your U.S. status and avoid section 1446 withholding on your share of partnership income.

In the cases below, the following person must give Form W-9 to the partnership for purposes of establishing its U.S. status and avoiding withholding on its allocable share of net income from the partnership conducting a trade or business in the United States.

- In the case of a disregarded entity with a U.S. owner, the U.S. owner of the disregarded entity and not the entity;
- In the case of a grantor trust with a U.S. grantor or other U.S. owner, generally, the U.S. grantor or other U.S. owner of the grantor trust and not the trust; and
- In the case of a U.S. trust (other than a grantor trust), the U.S. trust (other than a grantor trust) and not the beneficiaries of the trust.

Foreign person. If you are a foreign person or the U.S. branch of a foreign bank that has elected to be treated as a U.S. person, do not use Form W-9. Instead, use the appropriate Form W-8 or Form 8233 (see Pub. 515, Withholding of Tax on Nonresident Aliens and Foreign Entities).

Nonresident alien who becomes a resident alien. Generally, only a nonresident alien individual may use the terms of a tax treaty to reduce or eliminate U.S. tax on certain types of income. However, most tax treaties contain a provision known as a "saving clause." Exceptions specified in the saving clause may permit an exemption from tax to continue for certain types of income even after the payee has otherwise become a U.S. resident alien for tax purposes.

If you are a U.S. resident alien who is relying on an exception contained in the saving clause of a tax treaty to claim an exemption from U.S. tax on certain types of income, you must attach a statement to Form W-9 that specifies the following five items.

1. The treaty country. Generally, this must be the same treaty under which you claimed exemption from tax as a nonresident alien.

2. The treaty article addressing the income.

3. The article number (or location) in the tax treaty that contains the saving clause and its exceptions.

4. The type and amount of income that qualifies for the exemption from tax.

5. Sufficient facts to justify the exemption from tax under the terms of the treaty article.

Example. Article 20 of the U.S.-China income tax treaty allows an exemption from tax for scholarship income received by a Chinese student temporarily present in the United States. Under U.S. law, this student will become a resident alien for tax purposes if his or her stay in the United States exceeds 5 calendar years. However, paragraph 2 of the first Protocol to the U.S.-China treaty (dated April 30, 1984) allows the provisions of Article 20 to continue to apply even after the Chinese student becomes a resident alien of the United States. A Chinese student who qualifies for this exception (under paragraph 2 of the first protocol) and is relying on this exception to claim an exemption from tax on his or her scholarship or fellowship income would attach to Form W-9 a statement that includes the information described above to support that exemption.

If you are a nonresident alien or a foreign entity, give the requester the appropriate completed Form W-8 or Form 8233.

Backup Withholding

What is backup withholding? Persons making certain payments to you must under certain conditions withhold and pay to the IRS 24% of such payments. This is called "backup withholding." Payments that may be subject to backup withholding include interest, tax-exempt interest, dividends, broker and barter exchange transactions, rents, royalties, nonemployee pay, payments made in settlement of payment card and third party network transactions, and certain payments from fishing boat operators. Real estate transactions are not subject to backup withholding.

You will not be subject to backup withholding on payments you receive if you give the requester your correct TIN, make the proper certifications, and report all your taxable interest and dividends on your tax return.

Payments you receive will be subject to backup withholding if:

1. You do not furnish your TIN to the requester,

2. You do not certify your TIN when required (see the instructions for Part II for details),

3. The IRS tells the requester that you furnished an incorrect TIN,

4. The IRS tells you that you are subject to backup withholding because you did not report all your interest and dividends on your tax return (for reportable interest and dividends only), or

5. You do not certify to the requester that you are not subject to backup withholding under 4 above (for reportable interest and dividend accounts opened after 1983 only).

Certain payees and payments are exempt from backup withholding. See *Exempt payee code,* later, and the separate Instructions for the Requester of Form W-9 for more information.

Also see *Special rules for partnerships,* earlier.

What is FATCA Reporting?

The Foreign Account Tax Compliance Act (FATCA) requires a participating foreign financial institution to report all United States account holders that are specified United States persons. Certain payees are exempt from FATCA reporting. See *Exemption from FATCA reporting code,* later, and the Instructions for the Requester of Form W-9 for more information.

Updating Your Information

You must provide updated information to any person to whom you claimed to be an exempt payee if you are no longer an exempt payee and anticipate receiving reportable payments in the future from this person. For example, you may need to provide updated information if you are a C corporation that elects to be an S corporation, or if you no longer are tax exempt. In addition, you must furnish a new Form W-9 if the name or TIN changes for the account; for example, if the grantor of a grantor trust dies.

Penalties

Failure to furnish TIN. If you fail to furnish your correct TIN to a requester, you are subject to a penalty of $50 for each such failure unless your failure is due to reasonable cause and not to willful neglect.

Civil penalty for false information with respect to withholding. If you make a false statement with no reasonable basis that results in no backup withholding, you are subject to a $500 penalty.

Criminal penalty for falsifying information. Willfully falsifying certifications or affirmations may subject you to criminal penalties including fines and/or imprisonment.

Misuse of TINs. If the requester discloses or uses TINs in violation of federal law, the requester may be subject to civil and criminal penalties.

Specific Instructions

Line 1

You must enter one of the following on this line; **do not** leave this line blank. The name should match the name on your tax return.

If this Form W-9 is for a joint account (other than an account maintained by a foreign financial institution (FFI)), list first, and then circle, the name of the person or entity whose number you entered in Part I of Form W-9. If you are providing Form W-9 to an FFI to document a joint account, each holder of the account that is a U.S. person must provide a Form W-9.

a. **Individual.** Generally, enter the name shown on your tax return. If you have changed your last name without informing the Social Security Administration (SSA) of the name change, enter your first name, the last name as shown on your social security card, and your new last name.

Note: ITIN applicant: Enter your individual name as it was entered on your Form W-7 application, line 1a. This should also be the same as the name you entered on the Form 1040/1040A/1040EZ you filed with your application.

b. **Sole proprietor or single-member LLC.** Enter your individual name as shown on your 1040/1040A/1040EZ on line 1. You may enter your business, trade, or "doing business as" (DBA) name on line 2.

c. **Partnership, LLC that is not a single-member LLC, C corporation, or S corporation.** Enter the entity's name as shown on the entity's tax return on line 1 and any business, trade, or DBA name on line 2.

d. **Other entities.** Enter your name as shown on required U.S. federal tax documents on line 1. This name should match the name shown on the charter or other legal document creating the entity. You may enter any business, trade, or DBA name on line 2.

e. **Disregarded entity.** For U.S. federal tax purposes, an entity that is disregarded as an entity separate from its owner is treated as a "disregarded entity." See Regulations section 301.7701-2(c)(2)(iii). Enter the owner's name on line 1. The name of the entity entered on line 1 should never be a disregarded entity. The name on line 1 should be the name shown on the income tax return on which the income should be reported. For example, if a foreign LLC that is treated as a disregarded entity for U.S. federal tax purposes has a single owner that is a U.S. person, the U.S. owner's name is required to be provided on line 1. If the direct owner of the entity is also a disregarded entity, enter the first owner that is not disregarded for federal tax purposes. Enter the disregarded entity's name on line 2, "Business name/disregarded entity name." If the owner of the disregarded entity is a foreign person, the owner must complete an appropriate Form W-8 instead of a Form W-9. This is the case even if the foreign person has a U.S. TIN.

Line 2

If you have a business name, trade name, DBA name, or disregarded entity name, you may enter it on line 2.

Line 3

Check the appropriate box on line 3 for the U.S. federal tax classification of the person whose name is entered on line 1. Check only one box on line 3.

IF the entity/person on line 1 is a(n) . . .	THEN check the box for . . .
• Corporation	Corporation
• Individual • Sole proprietorship, or • Single-member limited liability company (LLC) owned by an individual and disregarded for U.S. federal tax purposes.	Individual/sole proprietor or single-member LLC
• LLC treated as a partnership for U.S. federal tax purposes, • LLC that has filed Form 8832 or 2553 to be taxed as a corporation, or • LLC that is disregarded as an entity separate from its owner but the owner is another LLC that is not disregarded for U.S. federal tax purposes.	Limited liability company and enter the appropriate tax classification. (P= Partnership; C= C corporation; or S= S corporation)
• Partnership	Partnership
• Trust/estate	Trust/estate

Line 4, Exemptions

If you are exempt from backup withholding and/or FATCA reporting, enter in the appropriate space on line 4 any code(s) that may apply to you.

Exempt payee code.

- Generally, individuals (including sole proprietors) are not exempt from backup withholding.
- Except as provided below, corporations are exempt from backup withholding for certain payments, including interest and dividends.
- Corporations are not exempt from backup withholding for payments made in settlement of payment card or third party network transactions.
- Corporations are not exempt from backup withholding with respect to attorneys' fees or gross proceeds paid to attorneys, and corporations that provide medical or health care services are not exempt with respect to payments reportable on Form 1099-MISC.

The following codes identify payees that are exempt from backup withholding. Enter the appropriate code in the space in line 4.

1—An organization exempt from tax under section 501(a), any IRA, or a custodial account under section 403(b)(7) if the account satisfies the requirements of section 401(f)(2)

2—The United States or any of its agencies or instrumentalities

3—A state, the District of Columbia, a U.S. commonwealth or possession, or any of their political subdivisions or instrumentalities

4—A foreign government or any of its political subdivisions, agencies, or instrumentalities

5—A corporation

6—A dealer in securities or commodities required to register in the United States, the District of Columbia, or a U.S. commonwealth or possession

7—A futures commission merchant registered with the Commodity Futures Trading Commission

8—A real estate investment trust

9—An entity registered at all times during the tax year under the Investment Company Act of 1940

10—A common trust fund operated by a bank under section 584(a)

11—A financial institution

12—A middleman known in the investment community as a nominee or custodian

13—A trust exempt from tax under section 664 or described in section 4947

The following chart shows types of payments that may be exempt from backup withholding. The chart applies to the exempt payees listed above, 1 through 13.

IF the payment is for . . .	THEN the payment is exempt for . . .
Interest and dividend payments	All exempt payees except for 7
Broker transactions	Exempt payees 1 through 4 and 6 through 11 and all C corporations. S corporations must not enter an exempt payee code because they are exempt only for sales of noncovered securities acquired prior to 2012.
Barter exchange transactions and patronage dividends	Exempt payees 1 through 4
Payments over $600 required to be reported and direct sales over $5,000[1]	Generally, exempt payees 1 through 5[2]
Payments made in settlement of payment card or third party network transactions	Exempt payees 1 through 4

[1] See Form 1099-MISC, Miscellaneous Income, and its instructions.

[2] However, the following payments made to a corporation and reportable on Form 1099-MISC are not exempt from backup withholding: medical and health care payments, attorneys' fees, gross proceeds paid to an attorney reportable under section 6045(f), and payments for services paid by a federal executive agency.

Exemption from FATCA reporting code. The following codes identify payees that are exempt from reporting under FATCA. These codes apply to persons submitting this form for accounts maintained outside of the United States by certain foreign financial institutions. Therefore, if you are only submitting this form for an account you hold in the United States, you may leave this field blank. Consult with the person requesting this form if you are uncertain if the financial institution is subject to these requirements. A requester may indicate that a code is not required by providing you with a Form W-9 with "Not Applicable" (or any similar indication) written or printed on the line for a FATCA exemption code.

A—An organization exempt from tax under section 501(a) or any individual retirement plan as defined in section 7701(a)(37)

B—The United States or any of its agencies or instrumentalities

C—A state, the District of Columbia, a U.S. commonwealth or possession, or any of their political subdivisions or instrumentalities

D—A corporation the stock of which is regularly traded on one or more established securities markets, as described in Regulations section 1.1472-1(c)(1)(i)

E—A corporation that is a member of the same expanded affiliated group as a corporation described in Regulations section 1.1472-1(c)(1)(i)

F—A dealer in securities, commodities, or derivative financial instruments (including notional principal contracts, futures, forwards, and options) that is registered as such under the laws of the United States or any state

G—A real estate investment trust

H—A regulated investment company as defined in section 851 or an entity registered at all times during the tax year under the Investment Company Act of 1940

I—A common trust fund as defined in section 584(a)

J—A bank as defined in section 581

K—A broker

L—A trust exempt from tax under section 664 or described in section 4947(a)(1)

M—A tax exempt trust under a section 403(b) plan or section 457(g) plan

Note: You may wish to consult with the financial institution requesting this form to determine whether the FATCA code and/or exempt payee code should be completed.

Line 5

Enter your address (number, street, and apartment or suite number). This is where the requester of this Form W-9 will mail your information returns. If this address differs from the one the requester already has on file, write NEW at the top. If a new address is provided, there is still a chance the old address will be used until the payor changes your address in their records.

Line 6

Enter your city, state, and ZIP code.

Part I. Taxpayer Identification Number (TIN)

Enter your TIN in the appropriate box. If you are a resident alien and you do not have and are not eligible to get an SSN, your TIN is your IRS individual taxpayer identification number (ITIN). Enter it in the social security number box. If you do not have an ITIN, see *How to get a TIN* below.

If you are a sole proprietor and you have an EIN, you may enter either your SSN or EIN.

If you are a single-member LLC that is disregarded as an entity separate from its owner, enter the owner's SSN (or EIN, if the owner has one). Do not enter the disregarded entity's EIN. If the LLC is classified as a corporation or partnership, enter the entity's EIN.

Note: See *What Name and Number To Give the Requester,* later, for further clarification of name and TIN combinations.

How to get a TIN. If you do not have a TIN, apply for one immediately. To apply for an SSN, get Form SS-5, Application for a Social Security Card, from your local SSA office or get this form online at *www.SSA.gov*. You may also get this form by calling 1-800-772-1213. Use Form W-7, Application for IRS Individual Taxpayer Identification Number, to apply for an ITIN, or Form SS-4, Application for Employer Identification Number, to apply for an EIN. You can apply for an EIN online by accessing the IRS website at *www.irs.gov/Businesses* and clicking on Employer Identification Number (EIN) under Starting a Business. Go to *www.irs.gov/Forms* to view, download, or print Form W-7 and/or Form SS-4. Or, you can go to *www.irs.gov/OrderForms* to place an order and have Form W-7 and/or SS-4 mailed to you within 10 business days.

If you are asked to complete Form W-9 but do not have a TIN, apply for a TIN and write "Applied For" in the space for the TIN, sign and date the form, and give it to the requester. For interest and dividend payments, and certain payments made with respect to readily tradable instruments, generally you will have 60 days to get a TIN and give it to the requester before you are subject to backup withholding on payments. The 60-day rule does not apply to other types of payments. You will be subject to backup withholding on all such payments until you provide your TIN to the requester.

Note: Entering "Applied For" means that you have already applied for a TIN or that you intend to apply for one soon.

Caution: A disregarded U.S. entity that has a foreign owner must use the appropriate Form W-8.

Part II. Certification

To establish to the withholding agent that you are a U.S. person, or resident alien, sign Form W-9. You may be requested to sign by the withholding agent even if item 1, 4, or 5 below indicates otherwise.

For a joint account, only the person whose TIN is shown in Part I should sign (when required). In the case of a disregarded entity, the person identified on line 1 must sign. Exempt payees, see *Exempt payee code,* earlier.

Signature requirements. Complete the certification as indicated in items 1 through 5 below.

1. Interest, dividend, and barter exchange accounts opened before 1984 and broker accounts considered active during 1983. You must give your correct TIN, but you do not have to sign the certification.

2. Interest, dividend, broker, and barter exchange accounts opened after 1983 and broker accounts considered inactive during 1983. You must sign the certification or backup withholding will apply. If you are subject to backup withholding and you are merely providing your correct TIN to the requester, you must cross out item 2 in the certification before signing the form.

3. Real estate transactions. You must sign the certification. You may cross out item 2 of the certification.

4. Other payments. You must give your correct TIN, but you do not have to sign the certification unless you have been notified that you have previously given an incorrect TIN. "Other payments" include payments made in the course of the requester's trade or business for rents, royalties, goods (other than bills for merchandise), medical and health care services (including payments to corporations), payments to a nonemployee for services, payments made in settlement of payment card and third party network transactions, payments to certain fishing boat crew members and fishermen, and gross proceeds paid to attorneys (including payments to corporations).

5. Mortgage interest paid by you, acquisition or abandonment of secured property, cancellation of debt, qualified tuition program payments (under section 529), ABLE accounts (under section 529A), IRA, Coverdell ESA, Archer MSA or HSA contributions or distributions, and pension distributions. You must give your correct TIN, but you do not have to sign the certification.

What Name and Number To Give the Requester

For this type of account:	Give name and SSN of:
1. Individual	The individual
2. Two or more individuals (joint account) other than an account maintained by an FFI	The actual owner of the account or, if combined funds, the first individual on the account[1]
3. Two or more U.S. persons (joint account maintained by an FFI)	Each holder of the account
4. Custodial account of a minor (Uniform Gift to Minors Act)	The minor[2]
5. a. The usual revocable savings trust (grantor is also trustee)	The grantor-trustee[1]
b. So-called trust account that is not a legal or valid trust under state law	The actual owner[1]
6. Sole proprietorship or disregarded entity owned by an individual	The owner[3]
7. Grantor trust filing under Optional Form 1099 Filing Method 1 (see Regulations section 1.671-4(b)(2)(i)(A))	The grantor*
For this type of account:	**Give name and EIN of:**
8. Disregarded entity not owned by an individual	The owner
9. A valid trust, estate, or pension trust	Legal entity[4]
10. Corporation or LLC electing corporate status on Form 8832 or Form 2553	The corporation
11. Association, club, religious, charitable, educational, or other tax-exempt organization	The organization
12. Partnership or multi-member LLC	The partnership
13. A broker or registered nominee	The broker or nominee
14. Account with the Department of Agriculture in the name of a public entity (such as a state or local government, school district, or prison) that receives agricultural program payments	The public entity
15. Grantor trust filing under the Form 1041 Filing Method or the Optional Form 1099 Filing Method 2 (see Regulations section 1.671-4(b)(2)(i)(B))	The trust

[1] List first and circle the name of the person whose number you furnish. If only one person on a joint account has an SSN, that person's number must be furnished.

[2] Circle the minor's name and furnish the minor's SSN.

[3] You must show your individual name and you may also enter your business or DBA name on the "Business name/disregarded entity" name line. You may use either your SSN or EIN (if you have one), but the IRS encourages you to use your SSN.

[4] List first and circle the name of the trust, estate, or pension trust. (Do not furnish the TIN of the personal representative or trustee unless the legal entity itself is not designated in the account title.) Also see *Special rules for partnerships*, earlier.

*Note: The grantor also must provide a Form W-9 to trustee of trust.

Note: If no name is circled when more than one name is listed, the number will be considered to be that of the first name listed.

Secure Your Tax Records From Identity Theft

Identity theft occurs when someone uses your personal information such as your name, SSN, or other identifying information, without your permission, to commit fraud or other crimes. An identity thief may use your SSN to get a job or may file a tax return using your SSN to receive a refund.

To reduce your risk:

- Protect your SSN,
- Ensure your employer is protecting your SSN, and
- Be careful when choosing a tax preparer.

If your tax records are affected by identity theft and you receive a notice from the IRS, respond right away to the name and phone number printed on the IRS notice or letter.

If your tax records are not currently affected by identity theft but you think you are at risk due to a lost or stolen purse or wallet, questionable credit card activity or credit report, contact the IRS Identity Theft Hotline at 1-800-908-4490 or submit Form 14039.

For more information, see Pub. 5027, Identity Theft Information for Taxpayers.

Victims of identity theft who are experiencing economic harm or a systemic problem, or are seeking help in resolving tax problems that have not been resolved through normal channels, may be eligible for Taxpayer Advocate Service (TAS) assistance. You can reach TAS by calling the TAS toll-free case intake line at 1-877-777-4778 or TTY/TDD 1-800-829-4059.

Protect yourself from suspicious emails or phishing schemes. Phishing is the creation and use of email and websites designed to mimic legitimate business emails and websites. The most common act is sending an email to a user falsely claiming to be an established legitimate enterprise in an attempt to scam the user into surrendering private information that will be used for identity theft.

The IRS does not initiate contacts with taxpayers via emails. Also, the IRS does not request personal detailed information through email or ask taxpayers for the PIN numbers, passwords, or similar secret access information for their credit card, bank, or other financial accounts.

If you receive an unsolicited email claiming to be from the IRS, forward this message to *phishing@irs.gov*. You may also report misuse of the IRS name, logo, or other IRS property to the Treasury Inspector General for Tax Administration (TIGTA) at 1-800-366-4484. You can forward suspicious emails to the Federal Trade Commission at *spam@uce.gov* or report them at *www.ftc.gov/complaint*. You can contact the FTC at *www.ftc.gov/idtheft* or 877-IDTHEFT (877-438-4338). If you have been the victim of identity theft, see *www.IdentityTheft.gov* and Pub. 5027.

Visit *www.irs.gov/IdentityTheft* to learn more about identity theft and how to reduce your risk.

Privacy Act Notice

Section 6109 of the Internal Revenue Code requires you to provide your correct TIN to persons (including federal agencies) who are required to file information returns with the IRS to report interest, dividends, or certain other income paid to you; mortgage interest you paid; the acquisition or abandonment of secured property; the cancellation of debt; or contributions you made to an IRA, Archer MSA, or HSA. The person collecting this form uses the information on the form to file information returns with the IRS, reporting the above information. Routine uses of this information include giving it to the Department of Justice for civil and criminal litigation and to cities, states, the District of Columbia, and U.S. commonwealths and possessions for use in administering their laws. The information also may be disclosed to other countries under a treaty, to federal and state agencies to enforce civil and criminal laws, or to federal law enforcement and intelligence agencies to combat terrorism. You must provide your TIN whether or not you are required to file a tax return. Under section 3406, payers must generally withhold a percentage of taxable interest, dividend, and certain other payments to a payee who does not give a TIN to the payer. Certain penalties may also apply for providing false or fraudulent information.

ATTACHMENT K
CONSTRUCTION AGREEMENT

COLUMBIA COUNTY, a political subdivision of the State of Florida, by and through its Board of County Commissioners, situated at 135 NE Hernando Avenue, Suite 203, Lake City, Florida 32056- 1529 (the "County"), hereby enters into this Construction Agreement on this ___ day of _____, 2025 with _____ (the "Contractor") of _____ _____ (address) a contractor licensed to perform all work in the State of Florida in connection with the County's Project No. _____ (the "Project"), as said work is set forth in the Plans and Specifications and other Contract Documents hereafter specified (the "Work"). The designee for the Project and the Work, as referenced in this Agreement, shall be

Chad Williams

_____.

The County and the Contractor, for the consideration herein set forth, agree as follows:

Section 1. Contract Documents

The Contract Documents consist of this Agreement, the Exhibits described in Section 4 hereof, the Legal Advertisement, the Instructions to Bidders, the Proposal and any duly executed and issued addenda, Change Orders, Work Directive Changes, Field Orders, Work Authorizations and amendments relating thereto. All of the foregoing Contract Documents are incorporated by reference and made a part of this Agreement (all of said documents including the Agreement sometimes being referred to herein as the "Contract Documents" and sometimes as the "Agreement"). A copy of the Contract Documents shall be maintained by Contractor at the Project site at all times during the performance of the Work.

Section 2. Scope of Work

The Contractor agrees to furnish and pay for all management, supervision, financing, labor, materials, tools, fuel, supplies, utilities, equipment and services of every kind and type necessary to diligently, timely, and fully perform and complete in a good and workmanlike manner the Work required by this Agreement.

Section 3. Contract Amount

In consideration of the faithful performance by the Contractor of the covenants in this Agreement to the full satisfaction and acceptance of the County, the County agrees to pay, or cause to be paid, to Contractor the following amount (herein "Contract Amount"), in accordance with the terms of this Agreement: $ _____(_____ _____).

[INSERT SCHEDULE OF UNIT PRICES AS APPLICABLE]

Section 4. Exhibits Incorporated

The following documents are expressly agreed to be incorporated by reference and made a part of this Agreement:

A. Legal Advertisement
B. Invitation to Bid
C. Bid Proposal with required forms
D. Performance Bond
E. Public Payment Bond
F. Insurance Requirements, including certificates of insurance
G. Form of Release and Affidavit
H. Change Order Form
I. Notice of Award
J. Notice to Proceed Form
K. Application for Payment Form
L. Special Conditions, if any
M. Project Plans
N. _____
O. _____
P. _____

Section 5. Bonds

A. The Contractor shall provide Performance and Payment Bonds, in the form prescribed in the Exhibits to the Agreement, in the amount of 100% of the Contract Amount, the costs of which are to be paid by Contractor. The Performance and Payment Bonds shall be underwritten by a surety authorized to do business in the State of Florida and otherwise acceptable to the County; provided, however, the surety shall be rated as "A-" or better as to general policy holders rating and Class V or higher rating as to financial size category and the amount required shall not exceed 5% of the reported policy holder's surplus, all as reported in the most current Best Key Rating Guide, published by A.M. Best Company, Inc. of 75 Fulton Street, New York, New York 10038.

B. If the surety for any bond furnished by Contractor is declared bankrupt, becomes insolvent, its right to do business is terminated in the State of Florida, or it ceases to meet the requirements imposed by the Contract Documents, the Contractor shall, within five (5) calendar days thereafter, substitute another bond and surety, both of which shall be subject to the County's approval.

Section 6. Contract Time and Liquidated Damages

A. Time is of the essence in the performance of the Work under this Agreement. The "Commencement Date" shall be established in the Notice to Proceed to be issued by the County. The Contractor shall commence the Work within five (5) calendar days from the Commencement Date. No Work shall be performed at the Project site prior to the Commencement Date. Any Work performed by the Contractor prior to the Commencement Date shall be at the sole risk of the Contractor. The Work shall be substantially completed within_____calendar days from the

Commencement Date. The date of substantial completion of the Work (or designated portions thereof) is the date certified by the County when construction is sufficiently complete, in accordance with the Contract Documents, so the County can occupy or utilize the Work (or designated portions thereof) for the use for which it is intended. The Work shall be fully completed and ready for final acceptance by the County within 30 calendar days from the Commencement Date (herein "Contract Time").

B. The County and the Contractor recognize that, since time is of the essence for this Agreement, the County will suffer financial loss if the Work is not substantially completed within the time specified above, as said time may be adjusted as provided for herein. Should the Contractor fail to substantially complete the Work within the time period noted above, the County shall be entitled to assess, as liquidated damages, but not as a penalty, _____ for each calendar day thereafter until substantial completion is achieved. The Project shall be deemed to be substantially completed on the date the County issues a Substantial Completion Certificate pursuant to the terms hereof. The Contractor hereby expressly waives and relinquishes any right which it may have to seek to characterize the above noted liquidated damages as a penalty, which the parties agree represents a fair and reasonable estimate of the County's actual damages at the time of contracting if the Contractor fails to substantially complete the Work in a timely manner.

C. When any period of time is referenced by days herein, it shall be computed to exclude the first day 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 shall be omitted from the computation, and the last day shall become the next succeeding day which is not a Saturday, Sunday or legal holiday.

D. Contracts for more than the simplified acquisition threshold, which is the inflation adjusted amount determined by the Civilian Agency Acquisition Council and the Defense Acquisition Regulations Council (Councils) as authorized by 41 U.S.C. 1908, must address administrative, contractual, or legal remedies in instances where contractors violate or breach contract terms, and provide for such sanctions and penalties as appropriate.

Section 7. Intent of Contract Documents and Contractor Representations

A. It is the intent of the Contract Documents to describe a functionally complete project (or portion thereof) to be constructed in accordance with the Contract Documents. Any work, materials or equipment that may reasonably be inferred from the Contract Documents as being required to produce the intended result shall be supplied whether or not specifically called for. When words which have a well-known technical or trade meaning are used to describe work, materials or equipment, such words shall be interpreted in accordance with that meaning. Reference to standard specifications, manuals or codes of any technical society, organization or association or to the laws or regulations of any governmental authority having jurisdiction over the Project, whether such reference be specific or by implication, shall mean the latest standard specification, manual, code, law or regulation in effect at the time the Work is performed, except as may be otherwise specifically stated herein.

B. If before or during the performance of the Work, Contractor discovers a conflict, error or discrepancy in the Contract Documents, Contractor immediately shall report same to the County in writing and before proceeding with the Work affected thereby shall obtain a written interpretation or clarification from the County. Contractor shall take field measurements and verify field conditions and shall carefully compare such field measurements and conditions and other information known to Contractor with the Contract Documents before commencing any portion of the Work.

C. Drawings are intended to show general arrangements, design and extent of Work and are not intended to serve as shop drawings. Specifications are separated into divisions for convenience of reference only and shall not be interpreted as establishing divisions for the Work, trades, subcontracts, or extent of any part of the Work. In the event of a discrepancy between or among the drawings, specifications or other Contract Document provisions, Contractor shall be required to comply with the provision which is the more restrictive or stringent requirement upon the Contractor, as determined by the County.

D. In order to induce Owner to enter into this Agreement Contractor makes the following representations:

D.1 Contractor has examined and carefully studied the Contract Documents (including those listed in Section 4) and the other related data identified in the Project Documents including "technical data."

D.2 Contractor has visited the site and become familiar with and is satisfied as to the general, local, and site conditions that may affect cost, progress, performance or furnishing of the Work.

D.3 Contractor is familiar with and is satisfied as to all federal, state, and local Laws and Regulations that may affect cost, progress, performance and furnishing of the Work.

D.4 Contractor has carefully studied all reports of explorations and tests of subsurface conditions at or contiguous to site and all drawings of physical conditions in or relating to existing surface or subsurface structures at or contiguous to the site. Contractor acknowledges that Owner and County do not assume responsibility for the accuracy or completeness of information and data shown or indicated in the Contract Documents with respect to Underground Facilities at or contiguous to the site. Contractor has obtained and carefully studied (or assumes responsibility for having done so) all such additional supplementary examinations, investigations, explorations, tests, studies, and data concerning conditions (surface, subsurface, and Underground Facilities) at or contiguous to the site or otherwise which may affect cost, progress, performance, or furnishing of the Work or which relate to any aspect of the means, methods, techniques, sequences, and procedures of construction to be employed by Contractor and safety precautions, and

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

D.5 Contractor is aware of the general nature of work to be performed by Owner and others at the site that relates to the Work as indicated in the Contract Documents.

D.6. Contractor has correlated the information known to Contractor, information and observation 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.

D.7. Contractor has given the County written notice of all conflicts, errors, ambiguities or discrepancies that Contractor has discovered in the Contract Documents and the written resolution thereof by the County is acceptable to Contractor, and the Contract Documents are generally sufficient to indicate and convey understanding of all terms and conditions for performance and furnishing of the Work.

Section 8. Investigation and Utilities

A. Contractor shall have the sole responsibility of satisfying itself concerning the nature and location of the Work and the general and local conditions, and particularly, but without limitation, with respect to the following: those affecting transportation, access, disposal, handling and storage of materials; availability and quality of labor; water and electric power; availability and condition of roads; work area; living facilities; climatic conditions and seasons; physical conditions at the work-site and the project area as a whole; topography and ground surface conditions; nature and quantity of the surface materials to be encountered; subsurface conditions; equipment and facilities needed preliminary to and during performance of the Work; and all other costs associated with such performance. The failure of Contractor to acquaint itself with any applicable conditions shall not relieve Contractor from any of its responsibilities to perform under the Contract Documents, nor shall it be considered the basis for any claim for additional time or compensation.

B. Contractor shall locate all existing roadways, railways, drainage facilities and utility services above, upon, or under the Project site, said roadways, railways, drainage facilities and utilities being referred to in this Sub-Section 8.B. as the "Utilities". Contractor shall contact the owners of all Utilities to determine the necessity for relocating or temporarily interrupting any Utilities during the construction of the Project. Contractor shall schedule and coordinate its Work around any such relocation or temporary service interruption. Contractor shall be responsible for properly shoring, supporting and protecting all Utilities at all times during the course of the Work.

Section 9. Schedule

A. The Contractor, within ten (10) calendar days after receipt of a Notice of Award, shall prepare and submit to the County, for their review and approval, a progress schedule for the Project (herein "Progress Schedule"). The Progress Schedule shall relate to all Work required by the Contract Documents and shall: show the various activities of work in sufficient detail to demonstrate a reasonable and workable plan to complete the Project within the Contract Time; show the order and interdependence of activities and the sequence for accomplishing the Work and describe all activities in sufficient detail so that the County can readily identify the work and measure the progress on of each activity; show each activity with a beginning work date, a duration, and a monetary value; include activities for procurement fabrication, and delivery of materials, plant, and equipment, and review time for shop drawings and submittals; include milestone activities when milestones are required by the Contract Documents; and in a Project with more than one phase, adequately identify each phase and its completion date, and not allow activities to span more than one phase. The Contractor shall also submit a working plan with the Progress Schedule, consisting of a concise written description of the construction plan.

B. The County will return inadequate schedules to the Contractor for corrections and Contractor shall resubmit a corrected schedule within five (5) calendar days from the date of the County's return transmittal. The County will use the accepted Project Schedule as the baseline against which to measure the progress. However, by acceptance of the Project Schedule, the County does not endorse or otherwise certify the validity or accuracy of the activity durations or sequencing of activities.

C. The Progress Schedule shall be updated by the Contractor if there is a significant change in the planned order or duration of an activity or upon the request of the County, which shall not be requested more than [INSERT TIMES] a month. All updates to the Progress Schedule shall be subject to the County's review and approval. The County's review and approval of submitted the Progress Schedule and any required or requested updates shall be a condition precedent to the County's obligation to pay the Contractor.

Section 10. Progress Payments

A. Prior to submitting its first Application for Payment, Contractor shall submit to the County, for their review and approval, a schedule of values based upon the Contract Price, listing the major elements of the Work and the dollar value for each element. After its approval by the County, this schedule of values shall be used as the basis for the Contractor's monthly Applications for Payment. This schedule shall be updated and submitted each month to the County along with a completed and notarized copy of the Application for Payment form.

B. Prior to submitting its first Application for Payment, Contractor shall submit to the County a complete list of all its proposed subcontractors and materialmen. The first Application for Payment shall be submitted no earlier than thirty (30) days after the Commencement Date.

C. If payment is requested on the basis of materials and equipment not incorporated into the Project, but delivered and suitably stored at the site or at another location agreed to by the County in writing, the Application for Payment shall also be accompanied by a bill of sale, invoice or other documentation warranting that the County has received the materials and equipment free and clear of all liens, charges, security interests and encumbrances, together with evidence that the materials and equipment are covered by appropriate property insurance and other arrangements to protect the County's interest therein, all of which shall be subject to the County's satisfaction.

D. Contractor shall submit its monthly Application for Payment to the County on or before the 25th day of each month for work performed during the previous month. Invoices received after the 25th day of each month shall be considered for payment as part of the next month's application. Within ten (10) calendar days after receipt of each Application for Payment, the County shall either:

D.1 indicate his approval of the requested payment;

D.2 indicate his approval of only a portion of the requested payment, stating in writing his reasons therefore; or

D.3 return the Application for Payment to the Contractor indicating, in writing, the reason for refusing to approve payment.

In the event of a total denial and return of the Application for Payment by the County, the Contractor may make the necessary corrections and resubmit the Application for Payment. The County shall, within thirty (30) calendar days after County approval of an Application for Payment, pay the Contractor the amounts so approved. Provided, however, in no event shall the County be obligated to pay any amount greater than that portion of the Application for Payment approved by the County.

E. The County shall retain five percent (5%) of the gross amount of each monthly payment request or five percent (5%) of the portion thereof approved by the County for payment, whichever is less. Such sums shall be accumulated and released to Contractor with final payment.

F. Monthly payments to Contractor shall in no way imply approval or acceptance of Contractor's work.

G. Each Application for Payment shall be accompanied by a Release and Affidavit, in the form attached to this Agreement, showing that all materials, labor, equipment and other bills associated with that portion of the Work for which payment is being requested have been paid in full. The County shall not be required to make payment until and unless these affidavits are furnished by the Contractor.

H. The County reserves the right to issue joint checks to Contractor and its material suppliers, subcontractors, labor unions, equipment suppliers, etc., if, in the County’s sole judgment, it is necessary to do so to ensure payment to the above named parties or if above named parties have

filed a notice of nonpayment, lien or intent to lien, stop notice, etc.

Section 11. Payments Withheld

A. The County may decline to approve any Application for Payment, or portions thereof, because of subsequently discovered evidence or subsequent inspections. The County may nullify the whole or any part of any approval for payment previously issued and the County may withhold any payments otherwise due Contractor under this Agreement or any other agreement between the County and Contractor, to such extent as may be necessary in the County's opinion to protect it from loss because of:

A.1 Defective Work not remedied;

A.2 Third party claims filed or reasonable evidence indicating probable filing of such claims;

A.3 Failure of Contractor to make payment properly to subcontractors or for labor, materials or equipment;

A.4 Reasonable doubt that the Work can be completed for the unpaid balance of the Contract Amount;

A.5 Reasonable indication that the Work will not be completed within the Contract Time;

A.6 Unsatisfactory prosecution of the Work by the Contractor;

A.7 Failure to provide accurate and current "As-Builts"; or

A.8 Any other material breach of the Contract Documents.

B. If these conditions in Subsection 11.A are not remedied or removed, the County may, after three (3) days written notice, rectify the same at Contractor's expense. The County also may offset against any sums due Contractor the amount of any liquidated or unliquidated obligations of Contractor to the County, whether relating to or arising out of this Agreement or any other agreement between Contractor and the County.

Section 12. Final Payment

A. The County shall make final payment to Contractor within thirty (30) calendar days after the Work is finally inspected and accepted by the County in accordance with Section 25.B. herein, provided that Contractor first, and as an explicit condition precedent to the accrual of Contractor's right to final payment, shall have furnished the County with a properly executed and notarized copy of the Release and Affidavit, as well as, a duly executed copy of the Surety's consent to final payment and such other documentation that may be required by the Contract Documents and

the County.

B. Contractor's acceptance of final payment shall constitute a full waiver of any and all claims by Contractor against the County arising out of this Agreement or otherwise relating to the Project, except those previously made in writing and identified by parties as unsettled at the time of the final Application for Payment. Neither the acceptance of the Work nor payment by the County shall be deemed to be a waiver of the County's right to enforce any obligations of Contractor hereunder or to the recovery of damages for defective Work not discovered by the County at the time of final inspection.

Section 13. Submittals and Substitutions

A. Contractor shall carefully examine the Contract Documents for all requirements for approval of materials to be submitted such as a schedule of values, safety manual, shop drawings, data, test results, schedules and samples. Contractor shall submit all such materials at its own expense and in such form as required by the Contract Documents in sufficient time to prevent any delay in the delivery of such materials and the installation thereof.

B. Whenever materials or equipment are specified or described in the Contract Documents by using the name of a proprietary item or the name of a particular supplier, the naming of the item is intended to establish the type, function and quality required. Unless the name is followed by words indicating that no substitution is permitted, materials or equipment of other suppliers may be accepted by the County if sufficient information is submitted by Contractor to allow the County to determine that the material or equipment proposed is equivalent or better than to that named. Requests for review of substitute items of material and equipment will not be accepted by the County from anyone other than Contractor and all such requests must be submitted by Contractor to the County within thirty (30) calendar days after Notice of Award is received by Contractor.

C. If Contractor wishes to furnish or use a substitute item of material or equipment, Contractor shall make application to the County for acceptance thereof, certifying that the proposed substitute shall perform adequately the functions and achieve the results called for by the general design, be similar and of equal substance to that specified and be suited to the same use as that specified. The application shall state that the evaluation and acceptance of the proposed substitute will not prejudice Contractor's achievement of substantial completion on time, whether or not acceptance of the substitute for use in the Work will require a change in any of the Contract Documents (or in the provisions of any other direct contract with the County for the Project) to adapt the design to the proposed substitute and whether or not incorporation or use of the substitute in

connection with the Work is subject to payment of any license fee or royalty. All variations of the proposed substitute from that specified will be identified in the application and available maintenance, repair and replacement service shall be indicated. The application also shall contain an itemized estimate of all costs that will result, directly or indirectly, from acceptance of such substitute, including costs for redesign and claims of other contractors affected by the resulting change, all of which shall be considered by the County in evaluating the proposed substitute. The County may require Contractor to furnish at Contractor's expense additional data about the proposed substitute.

D. If a specific means, method, technique, sequence or procedure of construction is indicated in or required by the Contract Documents, Contractor may furnish or utilize a substitute means, method, sequence, technique or procedure of construction acceptable to the County, if Contractor submits sufficient information to allow the County to determine that the substitute proposed is equivalent to that indicated or required by the Contract Documents. The procedures for submission to and review by the County shall be the same as those provided herein for substitute materials and equipment.

E. The County shall be allowed a reasonable time within which to evaluate each proposed substitute. The County shall be the sole judge of acceptability, and no substitute will be ordered, installed or utilized without the County's prior written acceptance which shall be evidenced by either a Change Order or an approved Shop Drawing. The County may require Contractor to furnish at Contractor's expense a special performance guarantee or other surety with respect to any substitute.

Section 14. Daily Reports, As-Builts and Meetings

A. Unless waived in writing by the County, Contractor shall complete, maintain, and submit to County on a_____basis a daily log of the Contractor's work in a format approved by the County. The daily log shall document all activities of Contractor at the Project site including, but not limited to, the following:

A.1. Weather conditions showing the high and low temperatures during work hours, the amount of precipitation received on the Project site, and any other weather conditions which adversely affect the Work;

A.2. Any Conditions which adversely affect the Work;

A.3. The hours of operation by Contractor's and subcontractor's personnel;

A.4. The number of Contractor's and subcontractor's personnel present and working at the Project site, by subcontract and trade;

A5. All equipment present at the Project site, description of equipment use and designation of time equipment was used (specifically indicating any down time);

A.6. Description of Work being performed at the Project site;

A.7. Any unusual or special occurrences at the Project site;

A.8. Materials received at the Project site;

A.9. A list of all visitors to the Project site; and

A.10. Any problems that might impact either the cost or quality of the Work or the time of performance.

The daily log shall not constitute nor take the place of any notice required to be given by Contractor to the County pursuant to the Contract Documents.

B. Contractor shall maintain in a safe place at the Project site one record copy of the Contract Documents, including, but not limited to, all drawings, specifications, addenda, amendments, Change Orders, Work Directive Changes and Field Orders, as well as all written interpretations and clarifications issued by the County, in good order and annotated to show all changes made during construction. The annotated drawings shall be continuously updated by the Contractor throughout the prosecution of the Work to accurately reflect all field changes that are made to adapt the Work to field conditions, changes resulting from Change Orders, Work Directive Changes and Field Orders, and all concealed and buried installations of piping, conduit and utility services. All buried and concealed items, both inside and outside the Project site, shall be accurately located on the annotated drawings as to depth and in relationship to not less than two (2) permanent features (e.g. interior or exterior wall faces). The annotated drawings shall be clean and all changes, corrections and dimensions shall be given in a neat and legible manner in a contrasting color. The "As-Built" record documents, together with all approved samples and a counterpart of all approved shop drawings shall be available to County for reference. Current and accurate “As-Built” record documents shall be submitted with each Application for Payment. Failure to provide current and accurate “As-Built” record drawings shall be reason for rejecting the Application for Payment. Upon completion of the Work and as a condition precedent to Contractor's entitlement to final payment, these "As-Built" record documents, samples and shop drawings shall be delivered to the County by Contractor for the County.

C. Contractor shall keep all records and supporting documentation which concern or relate to the Work hereunder for a minimum of five (5) years from the date of termination of this Agreement or the date the Project is completed, whichever is later. The County, or any duly authorized agents or representatives of the County, shall have the right to audit, inspect and copy all such records and documentation as often as they deem necessary during the period of this Agreement

and during the five (5) year period noted above; provided, however, such activity shall be conducted only during normal business hours.

D. In addition to other requirements provided herein, Contractor shall:

D.1. Keep and maintain public records that ordinarily and necessarily would be required by the County in order to perform the Work.

D.2. Provide the public with access to public records on the same terms and conditions that the County would provide the records and at a cost that does not exceed the cost provided in this chapter or as otherwise provided by law.

D.3. Ensure that public records that are exempt or confidential and exempt from public records disclosure requirements are not disclosed except as authorized by law.

D.4. Meet all requirements for retaining public records and transfer, at no cost, to the County all public records in possession of the Contractor upon termination of the Contract and destroy any duplicate public records that are exempt or confidential and exempt from public records disclosure requirements. All records stored electronically must be provided to the County in a format that is compatible with the information technology systems of the County.

D.5. If the Contractor does not comply with a public records request, the County may terminate this Contract in accordance with Section 23 hereof.

Section 15. Independent Contractor

Contractor is an independent contractor and shall, at its sole cost and expenses and without increase in the contract price, comply with all laws, rules, ordinances, and regulations of all governing bodies having jurisdiction over the Work. Contractor shall be responsible for securing timely inspections and approvals of its work from all such authorities and as required by the Contract Documents. Contractor shall obtain and pay for all necessary permits and licenses, including business licenses; pay all fees, manufacturer's taxes, sales taxes, use taxes, processing taxes, and all federal and state taxes, insurance and contributions for social security and unemployment or disability insurance, which are measured by wages, salaries, or other remunerations paid to Contractor's employees, whether levied under existing or subsequently enacted laws, rules, or regulations. Contractor shall maintain proof that it has complied with all aspects of the foregoing provision and shall make such proof available for review by the County at County's request.

Section 16. Contractor Performance, Extensions, and No Damages for Delay of Work

A. Contractor shall diligently pursue the completion of the Work and coordinate the Work being done on the Project by its subcontractors and materialmen, as well as coordinating its Work with all work of others at the Project Site, so that its Work or the work of others shall not be delayed or impaired by any act or omission by Contractor. Contractor shall be solely responsible for

all construction means, methods, techniques, sequences, and procedures, as well as coordination of all portions of the Work under the Contract Documents.

B. Should Contractor be obstructed or delayed in the prosecution of or completion of the Work as a result of unforeseeable causes beyond the control of Contractor, and not due to its fault or neglect, including but not restricted to acts of God or of the public enemy, acts of government, fires, floods, epidemics, quarantine regulation, strikes or lockouts, Contractor shall notify the County in writing within forty-eight (48) hours after the commencement of such delay, stating the cause or causes thereof, or be deemed to have waived any right which Contractor may have had to request a time extension.

C. No interruption, interference, inefficiency, suspension or delay in the commencement or progress of the Work from any cause whatever, including those for which the County may be responsible, in whole or in part, shall relieve Contractor of his duty to perform or give rise to any right to damages or additional compensation from the County. Contractor expressly acknowledges and agrees that it shall receive no damages for delay. Contractor's sole remedy, if any, against the County will be the right to seek an extension to the Contract Time; provided, however, the granting of any such time extension shall not be a condition precedent to the aforementioned "No Damage For Delay" provision. This paragraph shall expressly apply to claims for early completion, as well as to claims based on late completion.

Section 17. Changes in the Work

A. The County shall have the right at any time during the progress of the Work to increase or decrease the Work. Promptly after being notified of a change, Contractor shall submit an itemized estimate of any cost or time increases or savings it foresees as a result of the change. Except in an emergency endangering life or property, or as expressly set forth herein, no addition or changes to the Work shall be made except upon written order of the County, and the County shall not be liable to the Contractor for any increased compensation without such written order. No officer, employee or agent of the County is authorized to direct any extra or changed work orally.

B. A Change Order, in the form attached to this Agreement, shall be issued and executed promptly after an agreement is reached between Contractor and the County concerning the requested changes. Contractor shall promptly perform changes authorized by duly executed Change Orders. The Contract Amount and Contract Time shall be adjusted in the Change Order in the manner as the County and Contractor shall mutually agree.

C. If the County and Contractor are unable to agree on a Change Order for the requested change, Contractor shall, nevertheless, promptly perform the change as directed by the County in a written Work Directive Change. In that event, the Contract Amount and Contract Time shall be adjusted as directed by the County. If Contractor disagrees with the County's adjustment determination, Contractor must make a claim pursuant to Section 18 of this Agreement or else be deemed to have waived any claim on this matter it might otherwise have had.

D. In the event a requested change results in an increase to the Contract Amount, the amount of the increase shall be limited to the Contractor's reasonable direct labor and material costs and reasonable actual equipment costs as a result of the change (including allowance for labor burden costs) plus a maximum ten percent (10%) markup for all overhead and profit. In the event such change Work is performed by a Subcontractor, a maximum ten percent (10%) markup for all overhead and profit for all Subcontractors' and sub-subcontractors' direct labor and material costs and actual equipment costs shall be permitted, with a maximum five percent (5%) markup thereon by the Contractor for all of its overhead and profit, for a total maximum markup of fifteen percent (15%). All compensation due Contractor and any Subcontractor or sub-subcontractor for field and home office overhead is included in the markups noted above.

E. The County shall have the right to conduct an audit of Contractor's books and records to verify the accuracy of the Contractor's claim with respect to Contractor's costs associated with any Change Order.

F. The County shall have authority to order minor changes in the Work not involving an adjustment to the Contract Amount or an extension to the Contract Time exceeding his/her authority and not inconsistent with the intent of the Contract Documents. Minor changes approved by the County, whether changes to Work and or Contract Time, cumulatively may not exceed ten percent (10%) of the Work and or Original Contract Time. Such changes may be effected by Field Order or by other written order. Such changes shall be binding on the Contractor.

Section 18. Claims and Disputes

A. A Claim is a demand or assertion by one of the parties seeking an adjustment or interpretation of the terms of the Contract Documents, payment of money, extension of time or other relief with respect to the terms of the Contract Documents. The term "Claim" also includes other disputes and matters in question between the County and Contractor arising out of or relating to the Contract Documents. The responsibility to substantiate a Claim shall rest with the party making the Claim.

B. Claims by the Contractor shall be made in writing to the County within forty-eight (48) hours after the first day of the event giving rise to such Claim or else the Contractor shall be deemed to have waived the Claim. Written supporting data shall be submitted to the County within fifteen (15) calendar days after the occurrence of the event, unless the County grants additional time in writing, or else the Contractor shall be deemed to have waived the Claim. All claims shall be priced in accordance with the provisions of Subsection 17.D. County will render a formal decision on the claim in writing within fifteen (15) calendar days after receipt of the Contractor’s Claim. County’s written decision will be final and binding upon Contractor and unless Contractor submits a written notice to the County requesting non-binding voluntary mediation within fifteen (15) calendar days of the date of such decisions, then Contractor forever waives and relinquishes any rights to bring any future legal actions or court claims with respect to such Claim.

Non-binding Mediation shall be completed within sixty (60) days from the date of Contractor's timely submission of a written notice requesting non-binding voluntary mediation.

C. The Contractor shall proceed diligently with its performance as directed by the County, regardless of any pending Claim, action, suit or administrative proceeding, unless otherwise agreed to by the County in writing. The County shall continue to make payments in accordance with the Contract Documents during the pendency of any Claim.

Section 19. Indemnification and Insurance

A. To the fullest extent permitted by law, Contractor and its surety covenant and agree to indemnify and hold County harmless of and from any and all claims, losses, demands, causes of action and the like, including but not limited to, attorneys' fees and court costs which may be asserted against County by anyone other than Contractor, resulting from, to the extent of, or occurring in connection with the failure of Contractor or supplier of Contractor to perform all work required within the scope of this agreement in strict accordance with the contract documents.

B. To the full extent permitted by law, Contractor hereby agrees to defend and indemnify, protect and hold harmless County, its agents, employees, servants and sureties (individually the "Indemnified Party" and collectively the "Indemnified Parties") of and from any loss or damage and to reimburse the Indemnified Parties for any and all expenses, including legal fees, expert witness fees and other litigation costs to which the Indemnified Parties may be put because of:

B.1. the liability for claims and liens for labor performed or materials used or furnished through or under Contractor for the project for which Contractor is liable due to any failure of Contractor to adhere to the terms of this agreement or any of the contract documents;

B.2. liability to County resulting from Contractor's failure to comply with applicable licensing requirements;

B.3. any personal injury, loss, damage or death to any person or persons (including employees, officers or agents of County, Contractor and lower tier subcontractors) and any property damage arising out of, result from, or in connection with the performance or non-performance of work required in this contract or by reason of any act, omission, fault or negligence whether active or passive of Contractor whether on the project or proceeding to or from the site, including, without limitation, any personal injury, loss, damage, death or property damage caused (or alleged to be caused) by any negligent or grossly negligent act, error or omission of any person or entity, including any Indemnified Party whether such Indemnified Party's or the person's or

entity's negligence be joint or concurrent however, Contractor shall not be required to indemnify an Indemnified Party for that party's sole negligence; or

B.4. liability imposed upon County directly or indirectly by Contractor's failure or the failure of any of its employees to comply with any law, ordinance, rule, regulation or requirement, including, but not limited to, any Occupational Safety and Health Administration violations and any penalties, including enhancements, resulting in whole or in part by subcontractor's acts or omissions as well as the Immigration Reform and Control Act of 1986 and all rules and regulations adopted pursuant thereto.

C. To the fullest extent permitted by law, in addition to the express duty to indemnify County when there is any causal connection between Contractor's work and any injury, loss, damage, death or property damage, Contractor expressly undertakes a duty to defend County as a separate duty, independent of and broader than the duty to indemnify. The duty to defend agreed to by Contractor hereby expressly include all costs of litigation, attorney's fees, settlement costs and reasonable expenses in connection with the litigation, whether or not the claims made for loss, injury, damage or property damage are valid or groundless and regardless of whether the defense of County is maintained by the County or assumed by Contractor as long as the claims made could be causally connected to Contractor as reasonable determined by County (claims).

D. The County and Contractor agree the first $100.00 of the Contract Amount paid by the County to Contractor shall be given as separate consideration for this indemnification and duty to defend, and any other indemnification of the County by Contractor provided for within the Contract Documents, the sufficiency of such separate consideration being acknowledged by Contractor by Contractor's execution of the Agreement. The Contractor's obligation under this provision shall not be limited in any way by the agreed upon contract price as shown in this contract or the Contractor's limit of, or lack of, sufficient insurance protection.

E. Contractor shall obtain and carry, at all times during its performance under the Contract Documents, insurance of the types and in the amounts set forth in the Insurance Requirements attached to this Agreement. All insurance policies shall be from responsible companies duly authorized to do business in the State of Florida and/or responsible risk retention group insurance companies which are registered with the State of Florida. Within fifteen (15) calendar days after Notice of Award is received by Contractor, Contractor shall provide the County with properly executed Certificates of Insurance to evidence Contractor's compliance with the insurance requirements of the Contract Documents. Said Certificates of Insurance shall be on forms approved by the County. The Certificates of Insurance shall be personally, manually signed by the authorized representatives of the insurance company/companies shown on the Certificates of Insurance, with proof that they are authorized representatives thereof. In addition, certified, true and exact copies of all insurance policies required hereunder shall be provided to the County, on a timely basis, when requested by the County.

F. The Certificates of Insurance and required insurance policies shall contain provisions that thirty (30) days prior written notice by registered or certified mail shall be given the County of any cancellation, intent not to renew, or reduction in the policies or coverages, except in the application of the aggregate limits provisions. In the event of a reduction in the aggregate limit of any policy, Contractor shall immediately take steps to have the aggregate limit reinstated to the full extent permitted under such policy.

G. All insurance coverages of the Contractor shall be primary to any insurance or self-insurance program carried by the County applicable to this Project. The acceptance by the County of any Certificate of Insurance does not constitute approval or agreement by the County that the insurance requirements have been satisfied or that the insurance policy shown on the Certificate of Insurance is in compliance with the requirements of the Contract Documents. No work shall commence at the Project site unless and until the required Certificates of Insurance are received by the County.

H. Contractor shall require each of its subcontractors to procure and maintain, until the completion of the subcontractor's work, insurance of the types and to the limits specified in the Insurance Requirements attached to this Agreement, unless such insurance requirements for the subcontractor is expressly waived in writing by the County. All liability insurance policies, other than professional liability, worker's compensation, employer's liability and business auto liability policies, obtained by Contractor to meet the requirements of the Contract Documents shall name the County and Engineer as additional insureds and shall contain severability of interest provisions. If any insurance provided pursuant to the Contract Documents expires prior to the completion of the Work, renewal Certificates of Insurance and, if requested by the County, certified, true copies of the renewal policies, shall be furnished by Contractor within thirty (30) days prior to the date of expiration.

I. Should at any time the Contractor not maintain the insurance coverages required herein, the County may terminate the Agreement or at its sole discretion shall be authorized to purchase such coverages and charge the Contractor for such coverages purchased. The County shall be under no obligation to purchase such insurance, nor shall it be responsible for the coverages purchased or the insurance company or companies used. The decision of the County to purchase such insurance coverages shall in no way be construed to be a waiver of any of its rights under the Contract Documents.

J. Contractor shall submit to the County a copy of all accident reports arising out of any injuries to its employees or those of any firm or individual to whom it may have subcontracted a portion of the Work, or any personal injuries or property damages arising or alleged to have arisen on account of any work by Contractor under the Contract Documents.

Section 20. Compliance with Laws

Contractor agrees to comply, at its own expense, with all federal, state and local laws, codes, statutes, ordinances, rules, regulations and requirements applicable to the Project, including but not

limited to those dealing with taxation, worker's compensation, equal employment and safety. If Contractor observes that the Contract Documents are at variance therewith, it shall promptly notify the County in writing.

Equal Employment Opportunity. Except as otherwise provided under 41 CFR Part 60, all contracts that meet the definition of "federally assisted construction contract" in 41 CFR Part 60-1.3 must include the equal opportunity clause provided under 41 CFR 60-1.4(b), in accordance with Executive Order 11246, "Equal Employment Opportunity" (30 FR 12319, 12935, 3 CFR Part, 1964-1965 Comp., p. 339), as amended by Executive Order 11375, "Amending Executive Order 11246 Relating to Equal Employment Opportunity," and implementing regulations at 41 CFR part 60, "Office of Federal Contract Compliance Programs, Equal Employment Opportunity, Department of Labor."

Davis-Bacon Act, as amended (40 U.S.C. 3141-3148). When required by Federal program legislation, all prime construction contracts in excess of $2,000 awarded by non-Federal entities must include a provision for compliance with the Davis-Bacon Act (40 U.S.C. 3141-3144, and 3146-3148) as supplemented by Department of Labor regulations (29 CFR Part 5, "Labor Standards Provisions Applicable to Contracts Covering Federally Financed and Assisted Construction"). In accordance with the statute, contractors must be required to pay wages to laborers and mechanics at a rate not less than the prevailing wages specified in a wage determination made by the Secretary of Labor. In addition, contractors must be required to pay wages not less than once a week. The non-Federal entity must place a copy of the current prevailing wage determination issued by the Department of Labor in each solicitation. The decision to award a contract or subcontract must be conditioned upon the acceptance of the wage determination. The non-Federal entity must report all suspected or reported violations to the Federal awarding agency. The contracts must also include a provision for compliance with the Copeland "Anti-Kickback" Act (40 U.S.C. 3145), as supplemented by Department of Labor regulations (29 CFR Part 3, "Contractors and Subcontractors on Public Building or Public Work Financed in Whole or in Part by Loans or Grants from the United States"). The Act provides that each contractor or subrecipient must be prohibited from inducing, by any means, any person employed in the construction, completion, or repair of public work, to give up any part of the compensation to which he or she is otherwise entitled. The non-Federal entity must report all suspected or reported violations to the Federal awarding agency.

Section 21. Cleanup and Protections

A. Contractor agrees to keep the Project site clean at all times of debris, rubbish and waste materials arising out of the Work. At the completion of the Work, Contractor shall remove all debris, rubbish and waste materials from and about the Project site, as well as all tools, appliances, construction equipment and machinery and surplus materials, and shall leave the Project site clean and ready for occupancy by the County.

B. Any existing surface or subsurface improvements, including, but not limited to, pavements, curbs, sidewalks, pipes, utilities, footings, structures, trees and shrubbery, not indicated in the Contract Documents to be removed or altered, shall be protected by Contractor from damage during the prosecution of the Work. Any such improvements so damaged shall be restored by Contractor to the condition equal to that existing at the time of Contractor's commencement of the

Work.

Section 22. Assignment

Contractor shall not assign this Agreement or any part thereof, without the prior consent in writing of the County. If Contractor does, with approval, assign this Agreement or any part thereof, it shall require that its assignee be bound to it and to assume toward Contractor all of the obligations and responsibilities that Contractor has assumed toward the County.

Section 23. Permits, Licenses and Taxes

A. Pursuant to Section 218.80, F.S., the County will pay for all County permits and fees, including license fees, permit fees, impact fees or inspection fees applicable to the work. Contractor is not responsible for paying for permits issued by the County wherein the work is to be performed, but is responsible for acquiring all permits. The County may require the Contractor to deliver internal budget transfer documents to applicable County agencies when the Contractor is acquiring permits.

B. All permits, fees and licenses necessary for the prosecution of the Work which are not issued by the County shall be acquired and paid for by the Contractor.

C. Contractor shall pay any and all sales, use, or other taxes, assessments and other similar charges when due, as required by any local, state of federal law, as it pertains to the services provided herein. Contractor further agrees that it shall protect, reimburse, and indemnify the County from and assume all liability for its tax obligations under the terms of this Agreement.

Section 24. Termination for Default

A. Contractor shall be considered in material default of the Agreement and such default shall be considered cause for the County to terminate the Agreement, in whole or in part, as further set forth in this Section, if Contractor: (1) fails to begin the Work under the Contract Documents within the time specified herein; or (2) fails to properly and timely perform the Work as directed by the County or as provided for in the approved Progress Schedule; or (3) performs the Work unsuitably or neglects or refuses to remove materials or to correct or replace such Work as may be rejected as unacceptable or unsuitable; or (4) discontinues the prosecution of the Work; or (5) fails to resume Work which has been suspended within a reasonable time after being notified to do so; or (6) becomes insolvent or is declared bankrupt, or commits any act of bankruptcy; or (7) allows any final judgment to stand against it unsatisfied for more than ten (10) days; or (8) makes an assignment for the benefit of creditors; or (9) fails to obey any applicable codes, laws, ordinances, rules or regulations with respect to the Work; or (10) materially breaches any other provision of the Contract Documents.

B. The County shall notify Contractor in writing of Contractor's default(s). If the County determines that Contractor has not remedied and cured the default(s) within seven (7) calendar days

following receipt by Contractor of said written notice, then the County, at its option, without releasing or waiving its rights and remedies against the Contractor's sureties and without prejudice to any other right or remedy it may be entitled to hereunder or by law, may terminate Contractor's right to proceed under the Agreement, in whole or in part, and take possession of all or any portion of the Work and any materials, tools, equipment, and appliances of Contractor, take assignments of any of Contractor's subcontracts and purchase orders, and complete all or any portion of Contractor's Work by whatever means, method or agency which the County, in its sole discretion, may choose.

C. If the County deems any of the foregoing remedies necessary, Contractor agrees that it shall not be entitled to receive any further payments hereunder until after the Project is completed. All monies expended and all of the costs, losses, damages and extra expenses, including all management, administrative and other overhead and other direct and indirect expenses (including Engineer and attorneys' fees) or damages incurred by the County incident to such completion, shall be deducted from the Contract Amount, and if such expenditures exceed the unpaid balance of the Contract Amount, Contractor agrees to pay promptly to the County on demand the full amount of such excess, including costs of collection, attorney's fees (including appeals) and interest thereon at the maximum legal rate of interest until paid. If the unpaid balance of the Contract Amount exceeds all such costs, expenditures and damages incurred by the County to complete the Work, such excess shall be paid to the Contractor. The amount to be paid to the Contractor or the County, as the case may be, shall be approved by the County, upon application, and this obligation for payment shall survive termination of the Agreement.

D. The liability of Contractor hereunder shall extend to and include the full amount of any and all sums paid, expenses and losses incurred, damages sustained, and obligations assumed by the County in good faith under the belief that such payments or assumptions were necessary or required, in completing the Work and providing labor, materials, equipment, supplies, and other items therefore or re-letting the Work, and in settlement, discharge or compromise of any claims, demands, suits, and judgments pertaining to or arising out of the Work hereunder.

E. If, after notice of termination of Contractor's right to proceed pursuant to this Section, it is determined for any reason that Contractor was not in default, or that its default was excusable, or that the County is not entitled to the remedies against Contractor provided herein, then Contractor's remedies against the County shall be the same as and limited to those afforded Contractor under Section 24 below.

Section 24. Termination for Convenience and Right of Suspension

A. The County shall have the right to terminate this Agreement without cause upon seven (7) calendar days' written notice to Contractor. In the event of such termination for convenience, Contractor's recovery against the County shall be limited to that portion of the Contract Amount earned through the date of termination, together with any retainage withheld and reasonable termination expenses incurred, but Contractor shall not be entitled to any other or further recovery against the County, including, but not limited to, damages or any anticipated profit on portions of the Work not performed.

B. The County shall have the right to suspend all or any portions of the Work upon giving Contractor not less than two (2) calendar days' prior written notice of such suspension. If all or any portion of the Work is so suspended, Contractor's sole and exclusive remedy shall be to seek an extension of time to its schedule in accordance with the procedures set forth in the Contract Documents. In no event shall the Contractor be entitled to any additional compensation or damages. Provided, however, if the ordered suspension exceeds six (6) months, the Contractor shall have the right to terminate the Agreement with respect to that portion of the Work which is subject to the ordered suspension.

C. All contracts in excess of $10,000 must address termination for cause and for convenience by the non-Federal entity including the manner by which it will be effected and the basis for settlement.

Section 25. Completion

A. When the entire Work (or any portion thereof designated in writing by the County) is ready for its intended use, Contractor shall notify the County in writing that the entire Work (or such designated portion) is substantially complete and request that County issue a Certificate of Substantial Completion (or Certificate of Partial Substantial Completion). Within a reasonable time thereafter, the Contractor and County shall make an inspection of the Work (or designated portion thereof) to determine the status of completion. If the County does not consider the Work (or designated portion) substantially complete, County shall notify Contractor in writing giving the reasons therefor. If the County considers the Work (or designated portion) substantially complete, County shall prepare and deliver to Contractor a Certificate of Substantial Completion (or Certificate of Partial Substantial Completion) which shall fix the date of Substantial Completion for the entire Work (or designated portion thereof) and include a tentative punchlist of items to be completed or corrected by Contractor before final payment. The County shall have the right to exclude Contractor from the Work and Project site (or designated portion thereof) after the date of Substantial Completion, but the County shall allow Contractor reasonable access to complete or correct items on the tentative punchlist.

B. Upon receipt of written certification by Contractor that the Work is completed in accordance with the Contract Documents and is ready for final inspection and acceptance and upon receipt of a final Application for Payment, County will make such inspection and, if he finds the Work acceptable and fully performed under the Contract Documents, he shall promptly issue a final Certificate for Payment, recommending that, on the basis of his observations and inspections, and the Contractor's certification that the Work has been completed in accordance with the terms and conditions of the Contract Documents, that the entire balance found to be due Contractor is due and payable. Neither the final payment nor the retainage shall become due and payable until Contractor submits: (1) the Release and Affidavit in the form attached, (2) consent of surety to final payment, and (3) if required by the County, other data establishing payment or satisfaction of all obligations, such as receipts, releases and waivers of liens, arising out of the Contract Documents, to the extent and in such form as may be designated by the County. The County reserves the right to inspect the

Work and make an independent determination as to the Work's acceptability, even though the County may have issued his recommendations. Unless and until the County is completely satisfied, neither the final payment nor the retainage shall become due and payable.

Section 26. Warranty

Contractor shall obtain and assign to the County all express warranties given to Contractor or any subcontractors by any materialmen supplying materials, equipment or fixtures to be incorporated into the Project. Contractor warrants to the County that any materials and equipment furnished under the Contract Documents shall be new unless otherwise specified, and that all Work shall be of good quality, free from all defects and in conformance with the Contract Documents. Contractor further warrants to the County that all materials and equipment furnished under the Contract Documents shall be applied, installed, connected, erected, used, cleaned and conditioned in accordance with the instructions of the applicable manufacturers, fabricators, suppliers or processors except as otherwise provided for in the Contract Documents. If, within one (1) year after final completion, any Work is found to be defective or not in conformance with the Contract Documents, Contractor shall correct it promptly after receipt of written notice from the County. Contractor shall also be responsible for and pay for replacement or repair of adjacent materials or Work which may be damaged as a result of such replacement or repair. These warranties are in addition to those implied warranties to which the County is entitled as a matter of law.

Section 27. Tests and Inspections.

A. The County, their respective representatives, agents and employees, and governmental agencies with jurisdiction over the Project shall have access at all times to the Work, whether the Work is being performed on or off of the Project site, for their observation, inspection and testing. Contractor shall provide proper, safe conditions for such access. Contractor shall provide the County with timely notice of readiness of the Work for all required inspections, tests or approvals.

B. If the Contract Documents or any codes, laws, ordinances, rules or regulations of any public authority having jurisdiction over the Project requires any portion of the Work to be specifically inspected, tested or approved, Contractor shall assume full responsibility therefore, pay all costs in connection therewith and furnish County the required certificates of inspection, testing or approval. All inspections, tests or approvals shall be performed in a manner and by organizations acceptable to the County.

C. If any Work that is to be inspected, tested or approved is covered without written concurrence from the County, such work must, if requested by County, be uncovered for observation. Such uncovering shall be at Contractor's expense unless Contractor has given County timely notice of Contractor's intention to cover the same and County has not acted with reasonable promptness to respond to such notice. If any Work is covered contrary to written directions from County, such Work must, if requested by County, be uncovered for County's observation and be replaced at Contractor's sole expense.

D. The County shall charge to Contractor and may deduct from any payments due Contractor all engineering and inspection expenses incurred by the County in connection with any overtime work. Such overtime work consisting of any work during the construction period beyond the regular eight (8) hour day and for any work performed on Saturday, Sunday or holidays.

E. Neither observations nor other actions by the County nor inspections, tests or approvals by others shall relieve Contractor from Contractor's obligations to perform the Work in accordance with the Contract Documents.

Section 28. Defective Work

A. Work not conforming to the requirements of the Contract Documents shall be deemed defective Work. If required by the County, Contractor shall, as directed, either correct all defective Work, whether or not fabricated, installed or completed, or if the defective Work has been rejected by the County, remove it from the site and replace it with conforming Work. Contractor shall bear all direct, indirect and consequential costs of such correction or removal (including, but not limited to fees and charges of engineers, architects, attorneys and other professionals) made necessary thereby, and shall hold the County harmless for same.

B. If any portion of the Work is defective, or Contractor fails to supply sufficient skilled workers with suitable materials or equipment, or fails to finish or perform the Work in such a way that the completed Work will conform to the Contract Documents, the County may order Contractor to stop the Work, or any portion thereof, until the cause for such stop in the work has been eliminated; however, this right of the County to stop the Work shall not give rise to any duty on the part of the County to exercise this right for the benefit of Contractor or any other party.

C. If Contractor fails, within a reasonable time after the written notice from the County, to correct defective Work or to remove and replace rejected defective Work as required by the County, or if Contractor fails to perform the Work in accordance with the Contract Documents, or if Contractor fails to comply with any of the provisions of the Contract Documents, the County may, after seven (7) days written notice to Contractor, correct and remedy any such deficiency.

Section 29. Supervision and Superintendents

Contractor shall plan, organize, supervise, schedule, monitor, direct and control 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. Contractor shall be responsible to see that the finished Work complies accurately with the Contract Documents. Contractor shall keep on the Work at all times during its progress a competent resident superintendent, who shall not be replaced without prior written notice to the County and Engineer except under extraordinary circumstances. The superintendent shall be Contractor's representative at the Project site and shall have authority to act on behalf of Contractor. All communications given to the superintendent shall be as binding as if given to the Contractor.

Section 30. Protection of Work

Contractor shall fully protect the Work from loss or damage and shall bear the cost of any such loss or damage until final payment has been made. If Contractor or any one for whom Contractor is legally liable is responsible for any loss or damage to the Work, or other work or materials of the County or the County's separate contractors, Contractor shall be charged with the same, and any monies necessary to replace such loss or damage shall be deducted from any amounts due Contractor.

Section 31. Emergencies

In the event of an emergency affecting the safety or protection of persons or the Work or property at the Project site or adjacent thereto, Contractor, without special instruction or authorization from the County is obligated to act to prevent threatened damage, injury or loss. Contractor shall give County written notice within forty-eight (48) hours after the occurrence of the emergency, if Contractor believes that any significant changes in the Work or variations from the Contract Documents have been caused thereby. If the County determines that a change in the Contract Documents is required because of the action taken in response to an emergency, a Change Order shall be issued to document the consequences of the changes or variations. If Contractor fails to provide the forty-eight (48) hour written notice noted above, the Contractor shall be deemed to have waived any right it otherwise may have had to seek an adjustment to the Contract Amount or an extension to the Contract Time.

Section 32. Use of Premises

Contractor shall confine all construction equipment, the storage of materials and equipment and the operations of workers to the Project site and land and areas identified in and permitted by the Contract Documents and other lands and areas permitted by law, rights of way, permits and easements, and shall not unreasonably encumber the Project site with construction equipment or other material or equipment. Contractor shall assume full responsibility for any damage to any such land or area, or to the owner or occupant thereof, or any land or areas contiguous thereto, resulting from the performance of the Work.

Section 33. Safety

A. Contractor shall be responsible for initiating, maintaining and supervising all safety precautions and programs in connection with the Work. Contractor shall take all necessary precautions for the safety of, and shall provide the necessary protection to prevent damage, injury or loss to:

A.1. All employees on the Work and other persons and/or organizations who may be affected thereby;

A.2. All the Work and materials and equipment to be incorporated therein,

whether in storage on or off the Project site; and

A.3. Other property on Project site or adjacent thereto, including trees, shrubs, walks, pavements, roadways, structures, utilities and any underground structures or improvements not designated for removal, relocation or replacement in the Contract Documents.

B. Contractor shall comply with all applicable codes, laws, ordinances, rules and regulations of any public body having jurisdiction for the safety of persons or property or to protect them from damage, injury or loss. Contractor shall erect and maintain all necessary safeguards for such safety and protection. Contractor shall notify owners of adjacent property and of underground structures and improvements and utility owners when prosecution of the Work may affect them, and shall cooperate with them in the protection, removal, relocation or replacement of their property. Contractor's duties and responsibilities for the safety and protection of the Work shall continue until such time as the Work is completed and final acceptance of same by the County has occurred.

C. Contractor shall designate a responsible representative at the Project site whose duty shall be the prevention of accidents. This person shall be Contractor's superintendent unless otherwise designated in writing by Contractor to the County.

Section 34. Project Meetings

Prior to the commencement of Work, the Contractor shall attend a preconstruction conference with the Engineer and others as appropriate to discuss the Progress Schedule, procedures for handling shop drawings and other submittals, and for processing Applications for Payment, and to establish a working understanding among the parties as to the Work. During the prosecution of the Work, the Contractor shall attend any and all meetings convened by the County with respect to the Project, when directed to do so by the County. Contractor shall have its subcontractors and suppliers attend all such meetings (including the preconstruction conference) as may be directed by the County.

Section 35. Notices

A. All notices required or made pursuant to this Agreement by the Contractor to the County or Engineer shall be in writing and delivered by hand or by United States Postal Service Department, first class mail, postage pre-paid, return receipt requested, or by Federal Express, addressed to the following:

<u>County</u>

David Kraus, Columbia County Administrator

135 NE Hernando Avenue, Suite 203
Lake City, Florida 32056-1529

_____

_____

With courtesy copies also provided to:

Joel F. Foreman, County Attorney Columbia County, Florida
207 S. Marion Avenue Lake City, Florida 32025

Kevin Kirby, Public Works Director Columbia County, Florida
Post Office Box 969
Lake City, Florida 32056-0969

B. All notices required or made pursuant to this Agreement by the County to Contractor shall be made in writing and shall be delivered by hand or by United States Postal Service Department, first class mail, postage pre-paid, return receipt requested, or by Federal Express, addressed to the following:

Corporate Name of Contractor: _____

Address (including city, state and zip): _____

Name of person with their title and attention the notice shouldbe sent:

_____

Telephone and Fax numbers: _____

Email Address: _____

C. Either party may change its above noted address by giving written notice to the other party in accordance with the requirements of this Section.

Section 36. Modification

No modification or change to the Agreement shall be valid or binding upon the parties unless in writing and executed by the party or parties intended to be bound by it.

Section 37. Successors and Assigns

Subject to other provisions hereof, the Agreement shall be binding upon and shall inure to the benefit of the successors and assigns of the parties to the Agreement.

Section 38. Governing Law

The Agreement shall be interpreted under and its performance governed by the laws of the

State of Florida.

Section 39. Venue

The state courts in and for Columbia County, Florida shall be the proper and sole venue for any legal action on any and all claims, disputes or other matters in controversy arising out of or relating to this Agreement, whether stated as contractual, tort, equitable, statutory or any other claims or causes of action.

Section 40. No Waiver

The failure of the County to enforce at any time or for any period of time any one or more of the provisions of the Agreement shall not be construed to be and shall not be a waiver of any such provision or provisions or of its right thereafter to enforce each and every such provision.

Section 41. Remedies Cumulative

No right or remedy in this Agreement is intended to be exclusive of any other right or remedy, but every such right or remedy shall be cumulative and shall be in addition to and not a limitation of any duties, obligations, rights and remedies otherwise imposed or available by law.

Section 42. Entire Agreement

Each of the parties hereto agrees and represents that the Agreement comprises the full and entire agreement between the parties affecting the Work contemplated, and no other agreement or understanding of any nature concerning the same has been entered into or will be recognized, and that all negotiations, acts, work performed, or payments made prior to the execution hereof shall be deemed merged in, integrated and superseded by the Agreement.

Section 43. Severability

Should any provision of the Agreement be determined by a court to be unenforceable, such a determination shall not affect the validity or enforceability of any other section or part thereof.

Section 44. Third Party Beneficiaries

It is specifically agreed between the parties executing this Agreement that it is not intended by any of the provisions of any part of the Agreement to create in the public or any member thereof, a third party beneficiary under this Agreement, or to authorize anyone not a party to this Agreement to maintain a suit for personal injuries or property damage pursuant to the terms or provisions of this Agreement.

Section 45. Public Records

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 bccadmin@columbiacountyfla.com or call (386) 758-1326 or P.O. Box 1529 Lake City, Fl 32056.

Contractor must comply with the public records laws, Florida Statute chapter 119, specifically Contractor must:

A. Keep and maintain public records required by the County to perform the service.
B. Upon request from the County's custodian of public records, provide the County 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 chapter 119 Florida Statutes 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 County.
D. Upon completion of the contract, transfer, at no cost, to the County all public records in possession of the contractor or keep and maintain public records required by the County to perform the service. If the contractor transfers all public records to the public agency 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 the public records. All records stored electronically must be provided to the public agency, upon the request from the public agency's custodian of public records, in a format that is compatible with the information technology systems of the public agency.

IN WITNESS WHEREOF, the parties have executed this Agreement on the date(s) indicated above.

CONTRACTOR: _____
(Company Name)

ATTEST:

By:_____(Signature)_____(Printed)
Its:_____(Title)
Date: _____

Witness:

Its:_____
President/Corporate Secretary/Witness Date:_____
[Corporate Seal]

_____
2nd Witness (if not incorporated)

OWNER: Board of County Commissioners of Columbia County, Florida

(SEAL) By:_____
Chairman

Clerk:_____ Date:_____

_____
Approved as to Form and Content:

_____
County Attorney

LEGAL ADVERTISEMENT

INVITATION TO BID

BID PROPOSAL WITH REQUIRED FORMS

PERFORMANCE BOND

BOND NO._____

KNOW ALL MEN BY THESE PRESENTS: That _____
_____, as Principal, whose principal business address is
_____
and phone number is_____, and
_____, as Surety, whose principal
address is_____

_____
and phone number is:_____are
held and firmly bound to Columbia County, Florida (the "COUNTY"), as Obligee in the sum
of:_____
_____
($_____) for the payment whereof we bond ourselves, our heirs, executors, personal representatives, successors and assigns, jointly and severally.

WHEREAS, Principal has entered into a contract dated as of the_____day of _____, 20____, with Obligee for _____
_____
_____
_____ COLUMBIA COUNTY Project No.:_____in accordance with drawings and specifications, which contract is incorporated by reference and made a part hereof, and is referred to as the Contract.

THE CONDITION OF THIS BOND is that if Principal:

1. Performs the Contract at the times and in the manner prescribed in the Contract; and

2. Pays Obligee any and all losses, damages, costs and attorneys' fees, including appellate proceedings, that Obligee sustains because of any default by Principal under the Contract, including, but not limited to, all delay damages, whether liquidated or actual, incurred by Obligee; and

3. Performs the guarantee of all work and materials furnished under the Contract for the time specified in the Contract, then this bond is void; otherwise it remains in full force.

Any changes in or under the Contract and compliance or noncompliance with any formalities connected with the Contract or the changes do not affect Surety's obligation under this Bond.

The Surety, for value received, hereby stipulates and agrees that no changes, extensions of time, alterations or additions to the terms of the Contract or other work to be performed hereunder, or the specifications referred to therein shall in anywise affect its obligations under this bond, and it does hereby waive notice of any such changes, extensions of time, alterations or additions to the terms of the Contract or to work or to the specifications.

This bond is intended to comply with provisions of Section 255.05, Florida Statutes, and all terms and conditions of said statute are incorporated herein by reference thereto, specifically including but not limited to the notice and time limitation provisions of said section. In the event of any conflict, ambiguity or discrepancy between Section 255.05, Florida Statutes, and this Bond, Florida Statutes shall control. No right of action shall accrue on this Bond to or, for the use of any person or entity other than the COUNTY and those persons or corporations provided for by said statute, their heirs, executors, administrators, successors or assigns.

It is further agreed and understood that if the COUNTY is required to initiate legal proceedings to recover on this Bond, the COUNTY may also recover its costs relating there to, including a reasonable amount for its attorney's fees and legal assistant's fees before trial, at trial, on appeal and in bankruptcy.

IN WITNESS WHEREOF, the above parties have executed this instrument this_____day of _____, 20____, the name of each party being affixed and these presents duly signed by its undersigned representative, pursuant to authority of its governing body.

Signed, sealed and delivered
in the presence of:

PRINCIPAL: _____
(Company Name of Contractor)

By:_____(Officers Signature)
_____(Officers Name Printed)

Witnesses as to Principal Name:_____(Signature)
Its:_____(Title)

STATE OF _____

COUNTY OF _____

The foregoing instrument was acknowledged before me this_____day of_____, 20 _____, by_____(officer's name), as

_____(title) of _____
(company name), a(n)_____(state) corporation, on behalf of the corporation. He/she is personally known to me OR has produced_____as identification and did (did not) take an oath.

My Commission Expires: _____

Signature of Notary:_____
(Legibly Printed) _____

(AFFIX OFFICIAL SEAL) Notary Public, State of_____

Commission No. _____

ATTEST: SURETY:

_____
(Printed Company Name)

_____

_____

(Business Address)

_____ _____
(Surety Authorized Signature) (Printed Name)

Witness as to Surety_____(Signature)
_____(Printed Name)

OR

_____ _____

As Attorney in Fact (Signature) (Printed Name)

(Attach Power of Attorney)

Witnessed by: _____ _____

(Signature) (Printed Name)

_____ _____

(Business Address) (Telephone Number)

STATE OF _____

COUNTY OF _____

The foregoing instrument was acknowledged before me this_____day of_____, 20____, by_____(officer's name), as_____(title) of_____Surety, on behalf of Surety. He/She is personally known to me OR has produced_____as identification and who did (did not) take an oath.

My Commission Expires: _____

Signature of Notary:_____
(Legibly Printed) _____

(AFFIX OFFICIAL SEAL) Notary Public, State of_____

Commission No. _____

PUBLIC PAYMENT BOND

BOND No. _____

KNOW ALL MEN BY THESE PRESENTS: That _____
_____, as Principal, whose principal business address is:

_____
and phone number and fax numbers are: _____
and _____, as Surety, whose principal address is:

_____

_____
and phone number and fax numbers are: _____ are held and firmly bound to COLUMBIA COUNTY, FLORIDA (the "COUNTY") as Obligee in the sum of _____
_____ ($_____)
for the payment whereof we bind ourselves, our heirs, executors, personal representatives, successors and assigns, jointly and severally.

WHEREAS, Principal has entered into a contract dated as of the _____ day of _____, 20___, with Obligee for _____
in accordance with drawings and specifications, which contract is incorporated by reference and made a part hereof, and this referred to as the Contract.

THE CONDITION OF THIS BOND is that if Principal promptly makes payment to all claimants as defined in Section 255.05(1), Florida Statutes, supplying Principal with labor, materials or supplies, used directly or indirectly by Principal in the prosecution of the work provided for in the Contract, then is bond is void; otherwise it remains in full force.

Any changes in or under the Contract and compliance or noncompliance with any formalities connected with the Contract or the changes do not affect Surety's obligation under this Bond.

The provisions of this bond are subject to the time limitations of Section 255.05(2). In no event will the Surety be liable in the aggregate to claimants for more than the penal sum of this Payment Bond, regardless of the number of suits that may be filed by claimants.

IN WITNESS WHEREOF, the above parties have executed this instrument this _____ day of _____, 20___, the name of each party being affixed and these presents duly signed by its under-signed representative, pursuant to authority of its governing body.
Signed, sealed and delivered in the presence of:

PRINCIPAL: _____
(Company Name of Contractor)

By:_____(Officer's Signature)
_____(Officer's Name Printed)

Witnesses as to Principal Name:_____(Signature)
Its:_____(Title)

STATE OF _____

COUNTY OF _____

The foregoing instrument was acknowledged before me this___day of_____, 20_____,

by_____ (officer's name), as

_____(title) of_____, a

_____corporation, on behalf of the corporation. He/she is personally known to me OR has

produced_____as identification and did (did not) take an oath.

My Commission Expires: _____
Signature of Notary: _____
(Legibly Printed) _____
(AFFIX OFFICIAL SEAL) Notary Public, State of _____
Commission No.:_____

ATTEST: SURETY:

_____
(Printed Company Name)
_____
_____
(Business Address)

_____ _____
(Surety Authorized Signature) (Printed Name)

Witness as to Surety:_____(Signature)

_____(Printed Name)

OR

_____ _____

As Attorney in Fact (Signature) (Printed Name)

(Attach Power of Attorney)

Witnessed by: _____ _____

(Signature) (Printed Name)

_____

_____

(Business Address)

_____

(Telephone Number)

STATE OF _____
COUNTY OF _____

The foregoing instrument was acknowledged before me this day of_, 20 , by _____(officer's name), as_____(title) of_____Surety, on behalf of Surety. He/She is personally known to me OR has produced_____as identification and who did (did not) take an oath.

My Commission Expires: _____

Signature of Notary: _____

(Legibly Printed) _____

(AFFIX OFFICIAL SEAL)

Notary Public, State of _____

Commission No:_____

INSURANCE REQUIREMENTS
CERTIFICATES OF INSURANCE

(1) The Contractor shall obtain and maintain such insurance as will protect it from: (1) claims under worker's compensation laws, disability benefit laws, or other similar employee benefit laws; (2) claims for damages because of bodily injury, occupational sickness or disease or death of his employees including claims insured by usual personal injury liability coverage; (3) claims for damages because of bodily injury, sickness or disease, or death of any person other than his employees including claims insured by usual personal injury liability coverage; and (4) from claims for injury to or destruction of tangible property including loss of use resulting there from -- any or all of which claims may arise out of, or result from, the services, work and operations carried out pursuant to and under the requirements of the Contract Documents, whether such services, work and operations be by the Contractor, its employees, or by subcontractor(s), or anyone employed by or under the supervision of any of them, or for whose acts any of them may be legally liable.

(2) This insurance shall be obtained and written for not less than the limits of liability specified hereinafter, or as required by law, whichever is greater.

(3) The Contractor shall require, and shall be responsible for assuring throughout the time the Agreement is in effect, that any and all of its subcontractors obtain and maintain until the completion of that subcontractor's work, such of the insurance coverages described herein as are required by law to be provided on behalf of their employees and others.

(4) The Contractor shall obtain, have and maintain during the entire period of the Agreement insurance policies, which contain the following information and provisions:

(A) The name and type of policy and coverages provided;
(B) The amount or limit applicable to each coverage provided;
(C) The date of expiration of coverage;
(D) The designation of the COUNTY as an additional insured and a certificate holder. (This requirement may be exempted for Workers' Compensation and professional liability Insurance.);
(E) The following clause must appear on the Certificate of Insurance:

Should any material change occur in any of the above described policies or should any of said policies be canceled before the expiration date thereof, the issuing company will mail at least thirty (30) days written notice to the COUNTY.

(5) If the initial, or any subsequently issued Certificate of Insurance expires prior to the completion of the Work or termination of the Agreement, the Contractor shall furnish to the COUNTY, in triplicate, renewal or replacement Certificate(s) of Insurance not later than thirty (30) calendar days prior to the date of their expiration. Failure of the Contractor to provide the COUNTY

with such renewal certificate(s) shall be considered justification for the COUNTY to terminate the Agreement.

(6) Contractor shall include the COUNTY, the COUNTY's agents, officers and employees in the Contractor's General Liability and Automobile Liability policies as additional insureds.

(7) If the COUNTY has any objection to the coverage afforded by other provisions of the insurance required to be purchased and maintained by Contractor in accordance with the requirements of the Contract Documents on the basis of its not complying with the Contract Documents, the COUNTY shall notify Contractor in writing thereof within thirty (30) days of the delivery of such certificates to the COUNTY. Contractor shall provide to the COUNTY such additional information with respect to its insurance as may be requested.

(8) The Contractor shall obtain and maintain the following insurance coverages as provided hereinbefore, and in the type, amounts and in conformance with the following minimum requirements:

WORKERS' COMPENSATION **[REVISE AS NEEDED TO MEET COUNTY'S REQUIREMENTS]**

State: Statutory
Applicable Federal:
(e.g. Longshoremen's) Statutory
Employer's Liability: $1,000,000.00

COMPREHENSIVE GENERAL LIABILITY

Bodily Injury: $1,000,000.00 Each Occurrence
Property Damage: $1,000,000.00 Each Occurrence

Comprehensive General Liability Insurance shall include:

Contractual Liability, Explosion, Collapse and Underground Coverages and Products and Completed Operations Coverages.

COMPREHENSIVE AUTOMOBILE LIABILITY

Bodily Injury: $1,000,000.00 Each Occurrence
Property Damage: $1,000,000.00 Each Occurrence

Comprehensive Automobile Liability shall include coverage for any owned auto, non-owned autos and hired autos.

RELEASE AND AFFIDAVIT

COUNTY OF_____

STATE OF FLORIDA

Before me, the undersigned authority, personally appeared _____ _____, who after being duly sworn, deposes and says:

(1) In accordance with the Contract Documents and in consideration of $_____paid,_____ ("Contractor") releases and waives for itself and its subcontractors, materialmen, successors and assigns, all claims demands, damages, costs and expenses, whether in contract or in tort, against Columbia County, Florida (the "COUNTY"), its Board of County Commissioners, employees and agents relating in any way to the performance of the Agreement between Contractor and the COUNTY, dated_____,_____, for the period from_____to _____.

(2) Contractor certifies for itself and its subcontractors, materialmen, successors and assigns, that all charges for labor, materials, supplies, lands, licenses and other expenses for which the COUNTY might be sued or for which a lien or a demand against any payment bond might be filed, have been fully satisfied and paid.

(3) Contractor agrees to indemnify, defend and save harmless the COUNTY, its Board of County Commissioners, employees and agents from all demands or suits, actions, claims of liens or other charges filed or asserted against the COUNTY arising out of the performance by Contractor of the Work covered by this Release and Affidavit.

(4) This Release and Affidavit is given in connection with Contractor's [monthly/final] Application for Payment No. .

CONTRACTOR:

_____

By:_____(signature of the executive officer)

Its:_____(title of the executive officer)

Date:_____

Witnesses

_____ _____

[Corporate Seal]

STATE OF _____

COUNTY OF _____

The foregoing instrument was acknowledged before me this_____day of_____, _____, by _____, as _____ of _____, a_____corporation, on behalf of the corporation. He/she is personally known to me or has produced _____ _____as identification and did (did not) take an oath.

My Commission Expires: _____
(Signature of Notary)

Name:_____
(Legibly Printed)

(AFFIX OFFICIAL SEAL) Notary Public, State of_____

Commission No.:_____

CHANGE ORDER FORM

CHANGE ORDER NO._____COLUMBIA COUNTY PROJECT NO. _____

TO: _____

_____

_____

DATE: _____

PROJECT NAME: _____

Columbia County Project No._____

Under our AGREEMENT dated_____.

****

You hereby are authorized and directed to make the following change(s) in accordance with terms and conditions of the Agreement:

_____

_____

FOR THE ADDITIVE or DEDUCTIVE Sum of:
_____($_____).

Original Agreement Amount $_____

Sum of Previous Changes $_____

This Change Order ADD/DEDUCT $_____

Present Agreement Amount $_____

The time for completion shall be (increased/decreased) by_____calendar days due to this Change Order. Accordingly, the Contract Time is now_____( ) calendar days and the final completion date is_____. Your acceptance of this Change Order shall constitute a modification to our Agreement and will be performed subject to all the same terms and conditions as contained in our Agreement indicated above, as fully as if the same were repeated in this acceptance. The adjustment, if any, to the Agreement shall constitute a full and final settlement of any and all claims arising out of or related to the change set forth herein, including claims for impact and delay costs.

Accepted:_____, 20____.

COLUMBIA COUNTY, FLORIDA CONTRACTOR

By:_____ By:_____
Chair President

ENGINEER: By:_____

NOTICE OF AWARD

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INSERT THE NOTICE OF AWARD BEHIND THIS COVER PAGE

NOTICE TO PROCEED

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INSERT THE NOTICE TO PROCEED BEHIND THIS COVER PAGE

APPLICATION FOR PAYMENT

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INSERT THE APPLICATION FOR PAYMENT BEHIND THIS COVER PAGE

ATTACHMENT L
EQUIPMENT FURNISHED BY COLUMBIA COUNTY

Project Name: 2025-12 I-75 at SR 25 (US 41) Widening and Resurfacing

OWNER-FURNISHED ITEMS (CONTRACTOR TO INSTALL ONLY):
TCS/Miovision Detection Stop Bar Detection (2)
TCS/Miovision Detection Advanced Detect (2)
TCS/TS-2 Traffic Signal Cabinets
Control Tech/Traffic Signal Controller with Database
Control Tech/MMU's
ITS Express/Network Switches & PTZ Cameras
Econolite SuperCap UPS System (2) without shipping

***All items supplied by the COUNTY will be installed by the CONTRACTOR**

Exhibit "A"

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CONTRACT PLANS COMPONENTS

ROADWAY
SIGNING AND PAVEMENT MARKING
SIGNALIZATION
INTELLIGENT TRANSPORTATION SYSTEMS
LIGHTING

INDEX OF ROADWAY PLANS

SHEET NO.	SHEET DESCRIPTION
1	KEY SHEET
2	SIGNATURE SHEET
3	DRAINAGE MAP
4	FLOOD DATA SHEET
5-10	TYPICAL SECTIONS
11	MODEL MANAGEMENT
12	PROJECT CONTROL
13	GENERAL NOTES
14-23	ROADWAY PLAN
24	GUARDRAIL DETAIL
25-26	INTERCHANGE DETAILS
27-29	DRAINAGE PROFILES
30-32	DRAINAGE DETAILS
33-34	STORMWATER FACILITIES
35	ROADWAY SOIL SURVEY
36	STORMWATER SOIL SURVEY
37	REPORT OF STORMWATER BORINGS
38-89	CROSS SECTIONS
90-123	TEMPORARY TRAFFIC CONTROL PLAN
124-136	UTILITY ADJUSTMENTS
137	SUMMARY OF VERIFIED UTILITIES
138	PIER STRENGTHENING DETAILS
EB-1 - EB-7	EXISTING BRIDGE PLAN SHEETS

CONTRACT PLANS

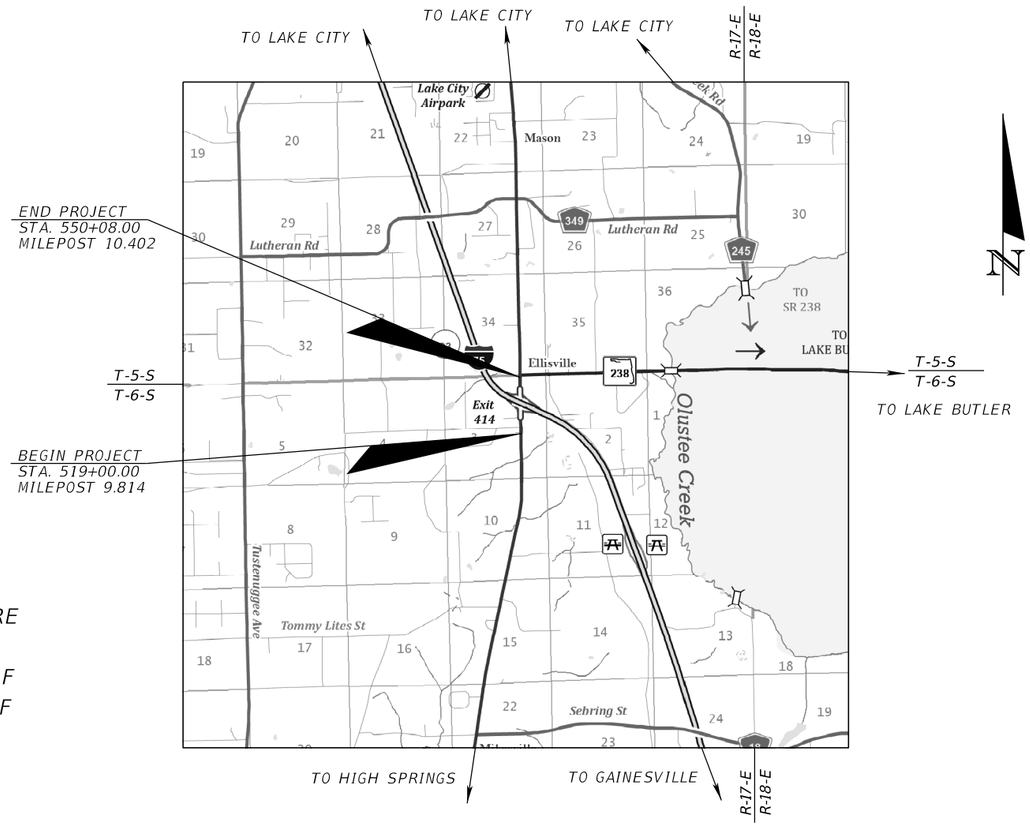
I-75 AT SR 25 (US 41)

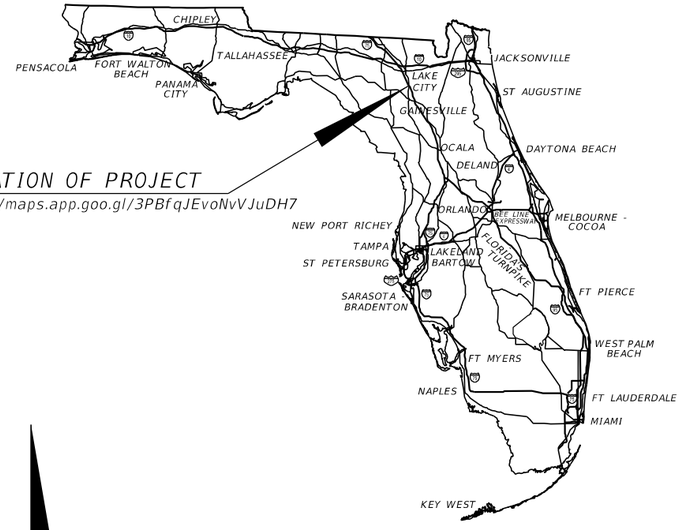
WIDENING AND RESURFACING

FINANCIAL PROJECT ID 445725-5-54-02

COLUMBIA COUNTY, FLORIDA

ROADWAY PLANS





LOCATION OF PROJECT
https://maps.app.goo.gl/3PBfqJEvoNvVJuDH7

ANY STRUCTURES PLANS CONTAINED HEREIN ARE EXEMPT FROM DISCLOSURE PURSUANT TO s.119.071(3)(b), FLA. STAT. AS THE RECIPIENT OF THESE RECORDS. PLEASE REFER REQUESTER OF RECORDS TO FLORIDA DEPARTMENT OF TRANSPORTATION.

GOVERNING STANDARD PLANS:

Florida Department of Transportation, FY2025-26 Standard Plans for Road and Bridge Construction and applicable Interim Revisions (IRs).

Standard Plans for Road Construction and associated IRs are available at the following website: http://www.fdot.gov/design/standardplans

APPLICABLE IRs: NONE

GOVERNING STANDARD SPECIFICATIONS:

Florida Department of Transportation, FY2025-26 Standard Specifications for Road and Bridge Construction at the following website: http://www.fdot.gov/programmanagement/Implemented/SpecBooks

ROADWAY PLANS ENGINEER OF RECORD:

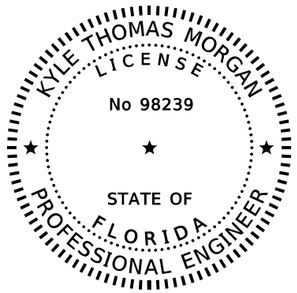
BRYON S. WUCZYNSKI, P.E.
P.E. LICENSE NUMBER 64090
OSIRIS 9 CONSULTING, LLC
13241 BARTRAM PARK BLVD STE 1109
JACKSONVILLE, FL, 32258
(904) 469-0221
CONTRACT NO.:
VENDOR NO.: F452311176

COLUMBIA COUNTY PROJECT MANAGER:

CHAD WILLIAMS, P.E.

FISCAL YEAR	SHEET NO.
26	1

THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.



THIS ITEM HAS BEEN DIGITALLY SIGNED AND SEALED BY

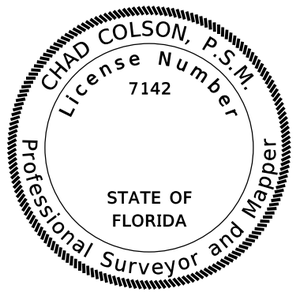
ON THE DATE ADJACENT TO THE SEAL

SIGNATURE MUST BE VERIFIED ON ANY ELECTRONIC COPIES.

OSIRIS 9 CONSULTING, LLC
13241 BARTRAM PARK BLVD, SUITE 1109
JACKSONVILLE, FL 32258
KYLE THOMAS MORGAN

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

SHEET NO.	SHEET DESCRIPTION
2	SIGNATURE SHEET
3	DRAINAGE MAP
4	FLOOD DATA SHEET
27–29	DRAINAGE PROFILES
30–32	DRAINAGE DETAILS
33–34	STORMWATER FACILITIES



THIS ITEM HAS BEEN DIGITALLY SIGNED AND SEALED BY

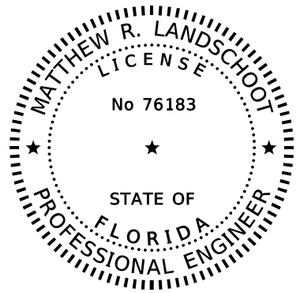
ON THE DATE ADJACENT TO THE SEAL

SIGNATURE MUST BE VERIFIED ON ANY ELECTRONIC COPIES.

CHW, INC.
11801 RESEARCH DRIVE
ALACHUA, FL 32615
CHAD COLSON, P.S.M.

THE ABOVE NAMED PROFESSIONAL SURVEYOR AND MAPPER SHALL BE RESPONSIBLE FOR THE FOLLOWING SHEETS IN ACCORDANCE WITH RULE 5J-17.062, F.A.C.

SHEET NO.	SHEET DESCRIPTION
2	SIGNATURE SHEET
12	PROJECT CONTROL



THIS ITEM HAS BEEN DIGITALLY SIGNED AND SEALED BY

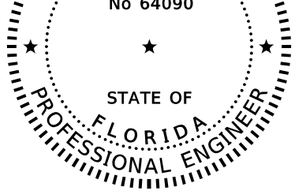
ON THE DATE ADJACENT TO THE SEAL

SIGNATURE MUST BE VERIFIED ON ANY ELECTRONIC COPIES.

ENVIRONMENTAL AND GEOTECHNICAL SPECIALISTS, INC.
3772 KORI ROAD
JACKSONVILLE, FL 32257
MATTHEW R. LANDSCHOOT

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

SHEET NO.	SHEET DESCRIPTION
2	SIGNATURE SHEET
35	ROADWAY SOIL SURVEY
36	STORMWATER SOIL SURVEY
37	REPORT OF STORMWATER BORINGS



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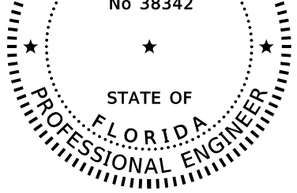
ON THE DATE ADJACENT TO THE SEAL

SIGNATURE MUST BE VERIFIED ON ANY ELECTRONIC COPIES.

OSIRIS 9 CONSULTING, LLC
13241 BARTRAM PARK BLVD, SUITE 1109
JACKSONVILLE, FL 32258
BRYON S. WUCZYNSKI

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

SHEET NO.	SHEET DESCRIPTION
1	KEY SHEET
2	SIGNATURE SHEET
5–10	TYPICAL SECTIONS
11	MODEL MANAGEMENT
13	GENERAL NOTES
14–23	ROADWAY PLAN
24	GUARDRAIL DETAIL
25–26	INTERCHANGE DETAILS
38–89	CROSS SECTIONS
90–123	TEMPORARY TRAFFIC CONTROL PLAN
124–136	UTILITY ADJUSTMENTS
137	SUMMARY OF VERIFIED UTILITIES



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ARCADIS
1200 RIVERPLACE BOULEVARD, SUITE 425
JACKSONVILLE, FL 32207
DANIEL T. MAXEY, P.E.

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

SHEET NO.	SHEET DESCRIPTION
2	SIGNATURE SHEET
138	PIER STRENGTHENING DETAILS
EB-1 – EB-7	EXISTING BRIDGE PLAN SHEETS

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

BRYON S. WUCZYNSKI, P.E.
LICENSE NUMBER: 64090
OSIRIS 9 CONSULTING, LLC
13241 BARTRAM PARK BLVD STE 1109
JACKSONVILLE, FL 32258

COLUMBIA CO BOCC

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 25	COLUMBIA	445725-5-54-02

SIGNATURE SHEET

SHEET NO. 2

SECTION 3
TOWNSHIP 6 SOUTH
RANGE 17 EAST

1A SIDE DRAIN
12" RCP
N FL 79.53
S FL 79.43

1B SIDE DRAIN
12" RCP
N FL 80.27
S FL 80.07

1C SIDE DRAIN
12" RCP
N FL 80.27
S FL 80.07

1 SIDE DRAIN
12" RCP
N FL 84.13
S FL 84.20

2 SIDE DRAIN
12" RCP
N FL 83.63
S FL 83.86

3 GRATE INLET
18" RCP
E FL 81.66

4 GRATE INLET
18" RCP
NE FL 79.19
W FL 79.45

5 MANHOLE
18" CPP
N FL 78.77
SW FL 78.76

6 MANHOLE
18" CPP
N FL 78.13
S FL 78.36
W FL 78.06

7 GRATE INLET
15" CPP
E FL 79.83

8 GRATE INLET
15" RCP
N FL UNK.
S FL 75.83

9 MES
S FL UNK.

9A SIDE DRAIN
18" CMP
N FL 78.56
S FL 78.99

9B SIDE DRAIN
18" CMP
N FL 81.41
S FL 81.46

9C SEW SIDE DRAIN
18" CMP
N FL 81.41
S FL 81.46

10 SEW
18" RCP
N FL UNK.

11 GRATE INLET
18" CMP
N FL 79.78
S FL 80.13

12 MES
S FL 78.94

13 MES
18" CMP
N FL 76.93

14 GRATE INLET
18" RCP
N FL 75.45
S FL 75.52

15 MES
S FL UNK.

16 SIDE DRAIN
18" RCP
N FL 70.99
S FL 71.91

17 SEW SIDE DRAIN
18" CMP
N FL 68.74
S FL 69.58

18 SEW
18" RCP
N FL UNK.

19 GRATE INLET
18" RCP
N FL 66.84
S FL 66.74

20 SEW
S FL UNK.

21 SEW
30" RCP
N FL UNK.

22 L-SHAPE SEW
S FL 67.86
W FL 68.65

23 SEW STORM DRAIN
PIPE SIZE UNK.
E FL UNK.
W FL 66.85

24 SEW
DOUBLE 24" RCP
NE FL 65.69
NE FL 65.57

25 PIPE CULVERT
15" CMP
NE FL 72.89
SW FL UNK.

26 STORM DRAIN
15" CMP
NE FL 82.81
SW FL 75.51

28 SEW
W FL 64.83
W FL 64.95

EX-203
GRATE INLET
DOUBLE 24" RCP
E FL 65.42
E FL 65.25
SW FL 65.15
SW FL 65.30

29 STORM DRAIN
15" CMP
NE FL 83.83
SW FL 67.43

30 STORM DRAIN
PIPE SIZE UNK.
NE FL 77.43
SW FL 65.44

31 CROSS DRAIN
48" RCP
N FL 60.82
S FL 60.62

32 CROSS DRAIN
42" RCP
NE FL 63.25
SW FL 61.38

33 MES
NE FL 65.99

34 GRATE INLET
18" RCP
SE FL 70.02
SW FL 70.19

35 GRATE INLET
18" RCP
NE FL 69.44
NW FL 69.68

36 GRATE INLET
18" RCP
SW FL 69.42

37 GRATE INLET
15" RCP
SE FL 70.15

38 GRATE INLET
18" RCP
NE FL 69.11
NW FL 69.57

39 MES
N FL 66.55

40 CROSS DRAIN
36" RCP
NE FL 63.65
SW FL 63.31

41 STORM DRAIN
15" CMP
NE FL 66.33
SW FL 77.86

42 STORM DRAIN
PIPE SIZE UNK.
NE FL 71.19
SW FL 84.02

43 SEW
NW FL 64.27

44 GRATE INLET
24" RCP
NW FL 64.73
SE FL 64.85

45 GRATE INLET
18" RCP
SE FL 64.96

46 SEW
N FL 68.52

47 GRATE INLET
24" RCP
N FL 70.31
S FL 70.11

48 GRATE INLET
24" RCP
N FL 70.03
S FL 69.98

49 SEW
24" RCP
S FL 70.05

49A SIDE DRAIN
18" RCP
N FL UNK.
S FL UNK.

50 PIPE CULVERT
28"X42" CMP
E FL UNK.
W FL 69.69

51 SIDE DRAIN
28"X42" CMP
N FL 69.84
S FL 69.75

52 SIDE DRAIN
36" CMP
N FL 68.58
S FL 69.30

53 MES
31"X39" CMP
N FL 70.30

54 GRATE INLET
31"X39" CMP
N FL 70.68
S FL 70.64

55 GRATE INLET
30"X45" RCP
N FL 70.86
S FL 70.98

56 MES
S FL 70.99

57 STORM DRAIN
15" CMP
NE FL 71.62
SW FL 82.79

58 STORM DRAIN
PIPE SIZE UNK.
NE FL UNK.
SW FL UNK.

59 STORM DRAIN
PIPE SIZE UNK.
NE FL UNK.
SW FL UNK.

60 STORM DRAIN
PIPE SIZE UNK.
NE FL UNK.
SW FL UNK.

61 GRATE INLET
PIPE SIZE UNK.
S FL UNK.

62 GRATE INLET
PIPE SIZE UNK.
N FL UNK.
SW FL UNK.

63 MES
NE FL UNK.

64 GRATE INLET
15" RCP
NW FL 68.85

65 GRATE INLET
15" RCP
NE FL 67.97
SE FL 68.27

66 SEW
SW FL 66.88

BASIN HOWEL S-1
0.36 AC

BASIN HOWEL S-2
0.09 AC

BASIN HOWEL N
0.89 AC

BASIN WELCOME CENTER
21.11 AC

BASIN 1 WEST
3.32 AC

BASIN 1 EAST
4.15 AC

BASIN 2
1.51 AC

BASIN 3
5.32 AC

BASIN 4
4.37 AC

BASIN RAMP D
2.73 AC

BASIN 6A
3.74 AC

BASIN 6B
1.27 AC

BASIN SMF 1
4.13 AC

BASIN 5
8.10 AC

I-75 MEDIAN
0.69 AC

BASIN 7 OFFSITE
5.32 AC

BASIN 8 OFFSITE
18.72 AC

BASIN US 41
OFFSITE
6.69 AC

SW HOWELL RD
SR 25 (US 41)
I-75
RAMP A
RAMP B
RAMP C
RAMP D
SMF 1
OUTFALL 1
BEGIN PROJECT
STA. 519+09.80
END PROJECT
STA. 550+08.00
℄ SURVEY US 41
℄ CONST. RAMP D
℄ CONST. RAMP C
℄ CONST. RAMP B
℄ CONST. SMF 1
LA R/W LINE
R/W LINE
ZONE A
100-YR FLOODPLAIN (TYP)
WBID: 3504A OLUSTEE CREEK
OUTFALL: CLOSED
BASIN LOW AREA

S-100 S-101 S-102 S-104 S-105 S-106 S-107 S-108 S-201 S-203 S-204 S-204A S-205 S-208 S-209 S-210 S-211 S-301 S-302 S-303 S-304 S-305 S-305A S-306 CS-100 CS-101 CS-102

0 50 250
Feet

DO NOT USE THE INFORMATION ON THS SHEET FOR CONSTRUCTION PURPOSES. THIS SHEET IS IN THE PLANS FOR DOCUMENTATION AND TO ASSIST CONSTRUCTION PERSONNEL WITH DRAINAGE CONCERNS.

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

KYLE THOMAS MORGAN
LICENSE NUMBER: 98239
OSIRIS 9 CONSULTING, LLC
13241 BARTRAM PARK BLVD STE 1109
JACKSONVILLE, FL 32258

COLUMBIA CO BOCC

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 25	COLUMBIA	445725-5-54-02

DRAINAGE MAP

SHEET NO. 3

T:\WorkSets\Columbia County\44572515201\Drainage\DRMPRD01.dgn : BL_SURVEY_US 41 - PLAN 1 [SHEET] DD
kmorgan 8/29/2025 3:11:04 PM

SUMMARY OF FLOOD DATA

FINANCIAL PROJECT ID 445725-5-54-02

DATE: 6/18/25

STRUCTURE NO.	STATION	DESIGN FLOOD		BASE FLOOD		OVERTOPPING FLOOD				GREATEST FLOOD			
		2% PROB	50 YR FREQ	1% PROB	100 YR FREQ								
		DISCHARGE	STAGE	DISCHARGE	STAGE	DISCHARGE	STAGE	PROB %	FREQ YR	DISCHARGE	STAGE	PROB %	FREQ YR
S-201	71+56	44.58	69.16	52.75	69.78	48.10	69.72	1.46	68				
S-303	42+35	3.11	67.49	3.83	67.61					6.51	68.41	0.2	500

NOTE: THE HYDRAULIC DATA IS SHOWN FOR INFORMATIONAL PURPOSES ONLY, TO INDICATE THE FLOOD DISCHARGES AND WATER SURFACE ELEVATIONS WHICH MAY BE ANTICIPATED IN ANY GIVEN YEAR. THIS DATA WAS GENERATED USING HIGHLY VARIABLE FACTORS DETERMINED BY A STUDY OF THE WATERSHED. MANY JUDGEMENTS AND ASSUMPTIONS ARE REQUIRED TO ESTABLISH THESE FACTORS. THE RESULTANT HYDRAULIC DATA IS SENSITIVE TO CHANGES, PARTICULARLY OF ANTECEDENT CONDITIONS, URBANIZATION, CHANNELIZATION, AND LAND USE. USERS OF THIS DATA ARE CAUTIONED AGAINST THE ASSUMPTION OF PRECISION WHICH CAN NOT BE ATTAINED. DISCHARGES ARE IN CUBIC FEET PER SECOND (CFS) AND STAGES ARE IN FEET, NAVD 88.

DEFINITIONS:

DESIGN FLOOD: UTILIZED TO ASSURE A STANDARD LEVEL OF HYDRAULIC PERFORMANCE.

BASE FLOOD: HAS A 1% CHANCE OF BEING EXCEEDED IN ANY YEAR (100 YR. FREQUENCY).

OVERTOPPING FLOOD: CAUSES FLOW OVER THE HIGHWAY, OVER A WATERSHED DIVIDE OR THRU EMERGENCY RELIEF STRUCTURES.

GREATEST FLOOD: THE MOST SEVERE THAT CAN BE PREDICTED WHERE OVERTOPPING IS NOT PRACTICABLE.

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

KYLE THOMAS MORGAN
LICENSE NUMBER: 98239
OSIRIS 9 CONSULTING, LLC
13241 BARTRAM PARK BLVD STE 1109
JACKSONVILLE, FL 32258

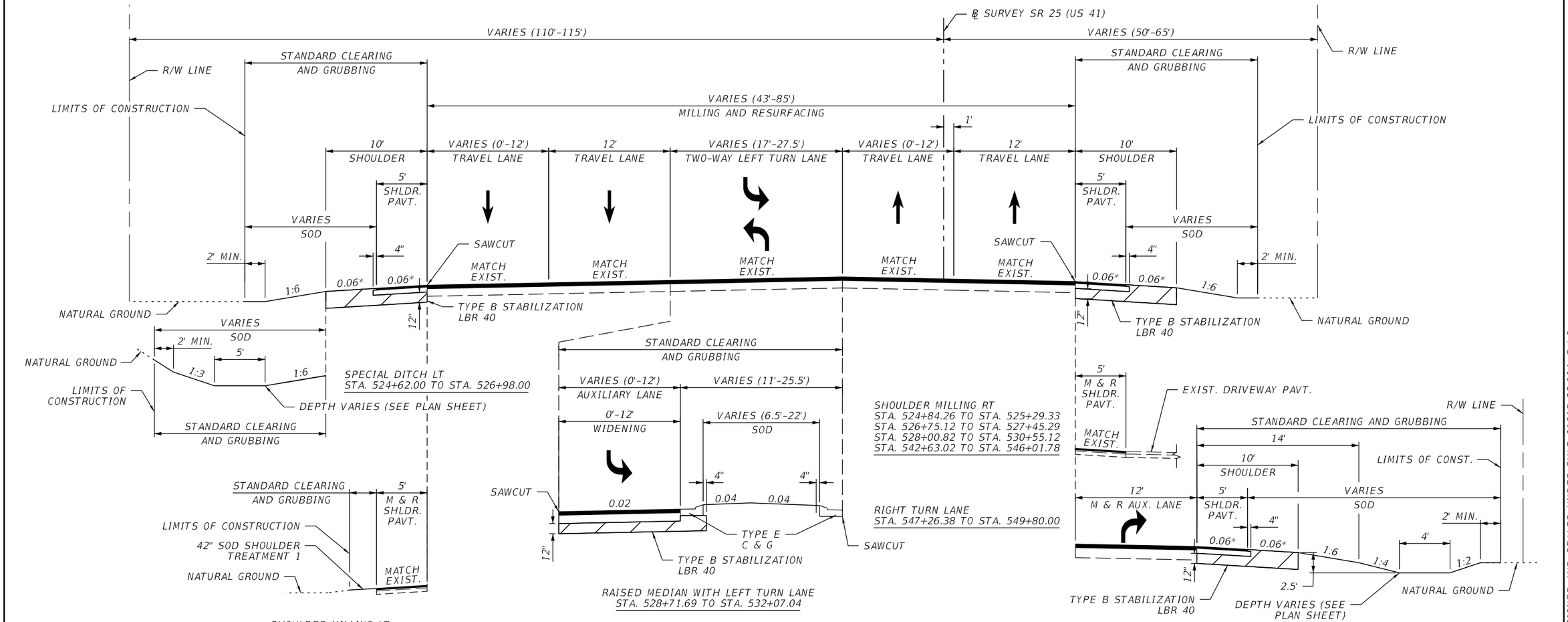
COLUMBIA CO BOCC

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 25	COLUMBIA	445725-5-54-02

FLOOD DATA SHEET

SHEET NO. 4

THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.



SHOULDER MILLING LT
STA. 526+98.92 TO STA. 528+24.85
STA. 541+76.98 TO STA. 543+72.96
STA. 544+95.13 TO STA. 546+25.23
STA. 547+71.26 TO STA. 550+08.00

RAISED MEDIAN WITH LEFT TURN LANE
STA. 528+71.69 TO STA. 532+07.04

TYPICAL SECTION 1
SR 25 (US 41)
STA. 519+00.00 TO STA. 532+56.25
STA. 539+87.63 TO STA. 550+08.00
N.T.S.

*0.06 IS STANDARD CROSS SLOPE FOR SHOULDERS UNLESS SPECIFIED OTHERWISE IN TABLE A

SHOULDER PAVEMENT
OPTIONAL BASE GROUP 1
TYPE SP STRUCTURAL COURSE (TRAFFIC C) (2.5") (HIGH POLYMER)
FRICTION COURSE FC-12.5 (TRAFFIC C) (1.5") (HIGH POLYMER)

MILLING & RESURFACING
MILL EXISTING ASPHALT PAVEMENT (4" DEPTH)
TYPE SP STRUCTURAL COURSE (TRAFFIC C) (2.5") (HIGH POLYMER)
FRICTION COURSE FC-12.5 (TRAFFIC C) (1.5") (HIGH POLYMER)

WIDENING
OPTIONAL BASE GROUP 9
TYPE SP STRUCTURAL COURSE (TRAFFIC C) (2.5") (HIGH POLYMER)
FRICTION COURSE FC-12.5 (TRAFFIC C) (1.5") (HIGH POLYMER)

NOTE:

1. ACTUAL WIDTH OF BASE WIDENING MAY VARY DUE TO ACTUAL EXISTING PAVEMENT WIDTH. A UNIFORM WIDTH BASE WIDENING STRIP MAY BE CONSTRUCTED AT NO ADDITIONAL COMPENSATION.
2. LIMIT COMPACTION TO THE STATIC MODE ONLY.
3. EXISTING RAISED MEDIAN FROM STATION 540+55.70 TO STATION 543+36.79 IS A DESIGNATED WILDFLOWER AREA. SEE NOTE ON GENERAL NOTES SHEET.

SHOULDER MILLING AND RESURFACING
MILL EXISTING ASPHALT PAVEMENT (1.5" DEPTH)
FRICTION COURSE FC-12.5 (TRAFFIC C) (1.5") (HIGH POLYMER)

TABLE A: SHOULDER CROSS SLOPES				
SIDE	START STA.	END STA.	START SLOPE	END SLOPE
RT	519+53.37	522+26.35	2.00%	2.00%
RT	525+29.33	525+50.00	5.00%	6.00%
RT	527+45.29	528+00.82	3.00%	5.00%
RT	537+74.32	542+15.00	2.00%	2.00%
RT	542+15.00	542+35.00	2.00%	5.80%
RT	546+01.78	547+65.97	2.00%	2.00%
LT	524+50.87	526+98.92	2.00%	2.00%
LT	528+25.00	528+59.00	2.00%	2.00%
LT	529+27.41	530+04.75	2.00%	2.00%
LT	530+04.75	530+14.75	2.00%	5.00%
LT	530+14.75	531+89.75	5.00%	5.00%
LT	531+89.75	531+99.52	5.00%	6.00%
LT	532+48.32	535+06.57	5.00%	5.00%
LT	543+69.95	543+80.44	2.00%	6.00%

TRAFFIC DATA
CURRENT YEAR = 2025 AADT = 16200
ESTIMATED OPENING YEAR = 2027 AADT = 17490
ESTIMATED DESIGN YEAR = 2047 AADT = 30310
K = 9.5% D = 54.3% T = 7.6% (24 HOUR)
DESIGN HOUR T = 7.6%
DESIGN SPEED = 45 MPH
CONTEXT CLASSIFICATION = C3C

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

BRYON S. WUCZYNSKI, P.E.
LICENSE NUMBER: 64090
OSIRIS 9 CONSULTING, LLC
13241 BARTRAM PARK BLVD STE 1109
JACKSONVILLE, FL 32258

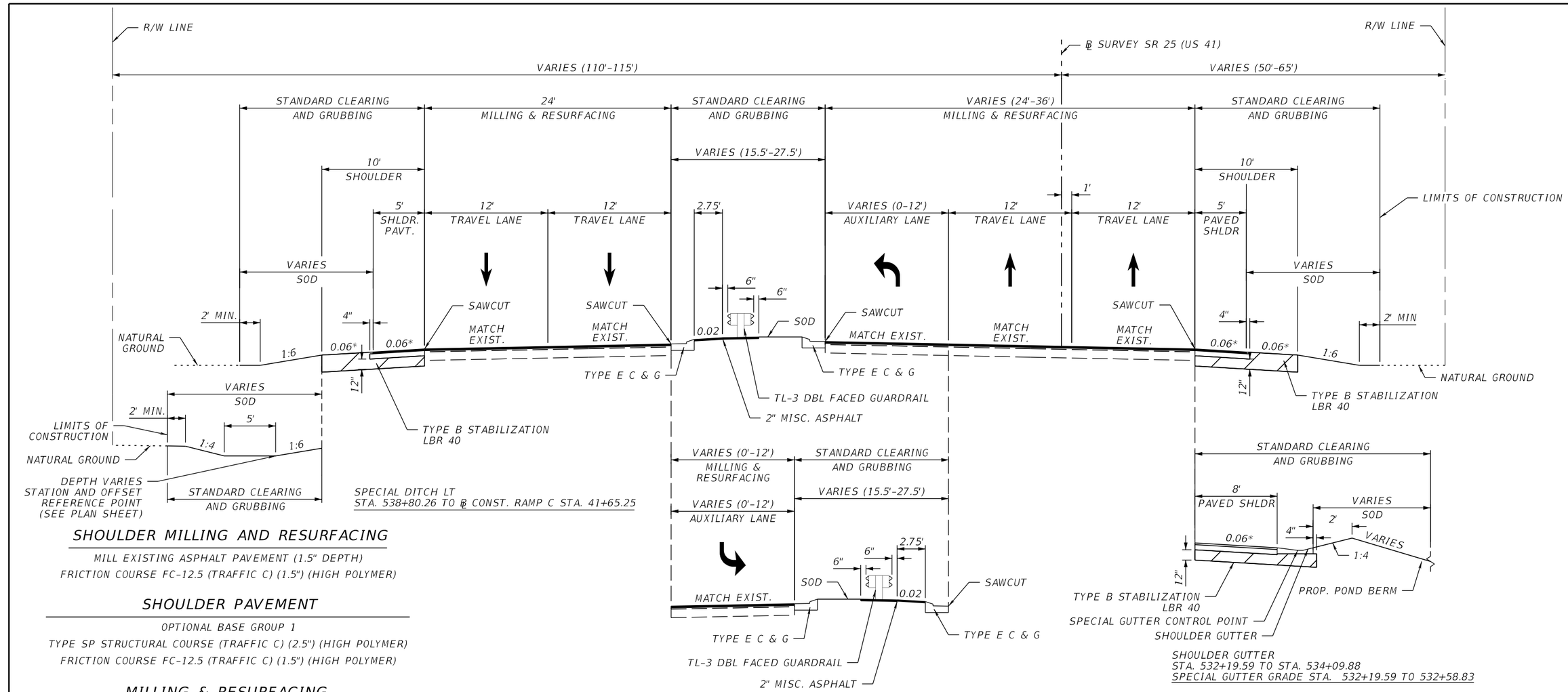
COLUMBIA CO BOCC

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 25	COLUMBIA	445725-5-54-02

TYPICAL SECTIONS

SHEET NO. 5

THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.



SPECIAL DITCH LT
STA. 538+80.26 TO ℄ CONST. RAMP C STA. 41+65.25

SHOULDER GUTTER
STA. 532+19.59 TO STA. 534+09.88
SPECIAL GUTTER GRADE STA. 532+19.59 TO 532+58.83

SHOULDER MILLING AND RESURFACING

MILL EXISTING ASPHALT PAVEMENT (1.5" DEPTH)
FRICTION COURSE FC-12.5 (TRAFFIC C) (1.5") (HIGH POLYMER)

SHOULDER PAVEMENT

OPTIONAL BASE GROUP 1
TYPE SP STRUCTURAL COURSE (TRAFFIC C) (2.5") (HIGH POLYMER)
FRICTION COURSE FC-12.5 (TRAFFIC C) (1.5") (HIGH POLYMER)

MILLING & RESURFACING

MILL EXISTING ASPHALT PAVEMENT (4" DEPTH)
TYPE SP STRUCTURAL COURSE (TRAFFIC C) (2.5") (HIGH POLYMER)
FRICTION COURSE FC-12.5 (TRAFFIC C) (1.5") (HIGH POLYMER)

WIDENING

OPTIONAL BASE GROUP 9
TYPE SP STRUCTURAL COURSE (TRAFFIC C) (2.5") (HIGH POLYMER)
FRICTION COURSE FC-12.5 (TRAFFIC C) (1.5") (HIGH POLYMER)

TRAFFIC DATA

CURRENT YEAR = 2025 AADT = 16200
ESTIMATED OPENING YEAR = 2027 AADT = 17490
ESTIMATED DESIGN YEAR = 2047 AADT = 30310
K = 9.5% D = 54.3% T = 7.6% (24 HOUR)
DESIGN HOUR T = 7.6%
DESIGN SPEED = 45 MPH
CONTEXT CLASSIFICATION = C3C

TYPICAL SECTION 2
SR 25 (US 41)
STA. 532+56.25 TO STA. 535+47.98
STA. 537+12.81 TO STA. 539+87.63
N.T.S.

NOTE:

1. ACTUAL WIDTH OF BASE WIDENING MAY VARY DUE TO ACTUAL EXISTING PAVEMENT WIDTH. A UNIFORM WIDTH BASE WIDENING STRIP MAY BE CONSTRUCTED AT NO ADDITIONAL COMPENSATION.
2. LIMIT COMPACTION TO THE STATIC MODE ONLY.

*0.06 IS STANDARD CROSS SLOPE FOR SHOULDERS UNLESS SPECIFIED OTHERWISE IN TABLE B

TABLE B: SHOULDER CROSS SLOPES

SIDE	START STA.	END STA.	START SLOPE	END SLOPE
RT	534+40.00	534+60.00	5.00%	3.50%
RT	534+60.00	536+95.00	3.50%	3.00%
RT	536+95.00	537+54.32	3.00%	3.00%
RT	537+54.32	537+74.32	3.00%	2.00%
RT	537+74.32	542+15.00	2.00%	2.00%
LT	532+48.32	535+06.57	5.00%	5.00%
LT	535+06.57	535+16.57	5.00%	2.00%
LT	535+16.57	538+36.50	2.00%	2.00%
LT	538+36.50	538+51.50	2.00%	6.00%

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REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

BRYON S. WUCZYNSKI, P.E.
LICENSE NUMBER: 64090
OSIRIS 9 CONSULTING, LLC
13241 BARTRAM PARK BLVD STE 1109
JACKSONVILLE, FL 32258

COLUMBIA CO BOCC

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 25	COLUMBIA	445725-5-54-02

TYPICAL SECTIONS

SHEET NO. 6

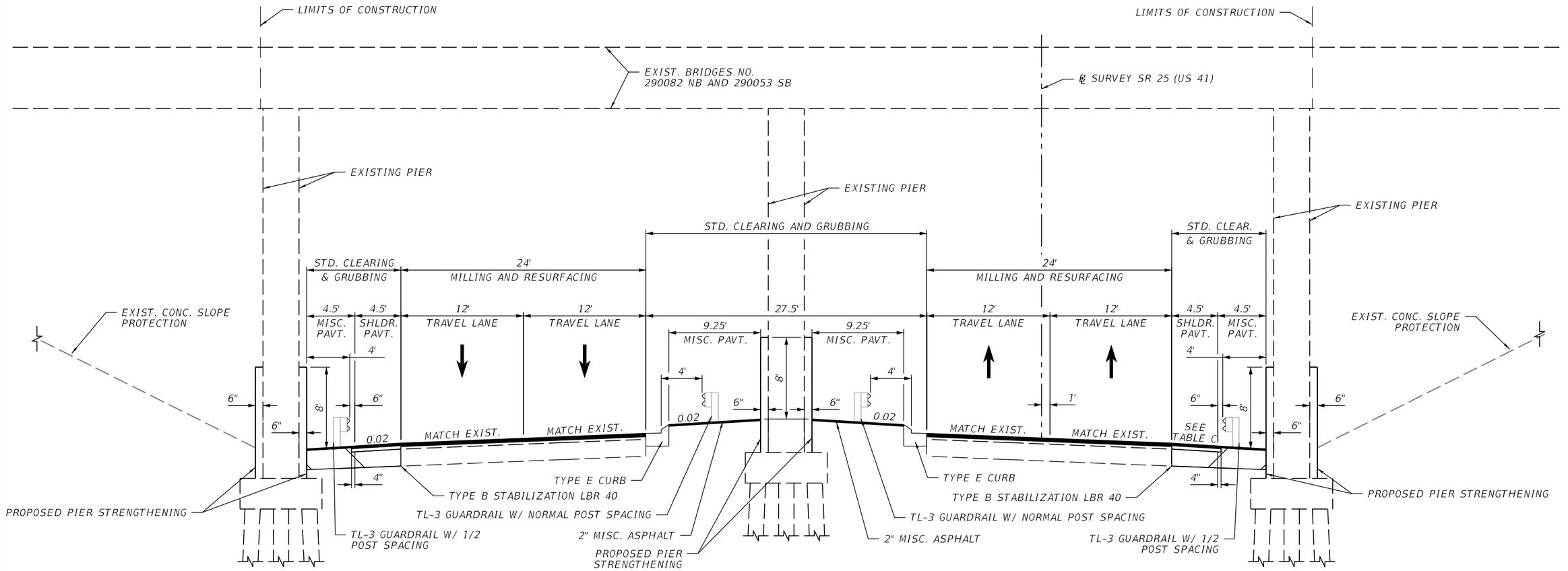


TABLE C: SHOULDER CROSS SLOPES				
SIDE	START STA.	END STA.	START SLOPE	END SLOPE
RT	534+60.00	536+95.00	3.50%	3.00%
RT	536+95.00	537+54.32	3.00%	3.00%

SHOULDER MILLING AND RESURFACING

MILL EXISTING ASPHALT PAVEMENT (1.5" DEPTH)
FRICTION COURSE FC-12.5 (TRAFFIC C) (1.5") (HIGH POLYMER)

SHOULDER PAVEMENT

OPTIONAL BASE GROUP 1
TYPE SP STRUCTURAL COURSE (TRAFFIC C) (2.5") (HIGH POLYMER)
FRICTION COURSE FC-12.5 (TRAFFIC C) (1.5") (HIGH POLYMER)

MILLING & RESURFACING

MILL EXISTING ASPHALT PAVEMENT (4" DEPTH)
TYPE SP STRUCTURAL COURSE (TRAFFIC C) (2.5") (HIGH POLYMER)
FRICTION COURSE FC-12.5 (TRAFFIC C) (1.5") (HIGH POLYMER)

TYPICAL SECTION 3
SR 25 (US 41)
STA. 535+47.98 TO STA. 537+12.81
N.T.S.

NOTE:

1. ACTUAL WIDTH OF BASE WIDENING MAY VARY DUE TO ACTUAL EXISTING PAVEMENT WIDTH. A UNIFORM WIDTH BASE WIDENING STRIP MAY BE CONSTRUCTED AT NO ADDITIONAL COMPENSATION.
2. LIMIT COMPACTION TO THE STATIC MODE ONLY.
3. EXISTING VERTICAL CLEARANCE UNDER THE I-75 BRIDGE FOR NORTHBOUND US 41 IS 14.44 FT, AND FOR SOUTHBOUND US 41 IS 14.68 FT.

TRAFFIC DATA

CURRENT YEAR = 2025 AADT = 16200
ESTIMATED OPENING YEAR = 2027 AADT = 17490
ESTIMATED DESIGN YEAR = 2047 AADT = 30310
K = 9.5% D = 54.3% T = 7.6% (24 HOUR)
DESIGN HOUR T = 7.6%
DESIGN SPEED = 45 MPH
CONTEXT CLASSIFICATION = C3C

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

BRYON S. WUCZYNSKI, P.E.
LICENSE NUMBER: 64090
OSIRIS 9 CONSULTING, LLC
13241 BARTRAM PARK BLVD STE 1109
JACKSONVILLE, FL 32258

COLUMBIA CO BOCC

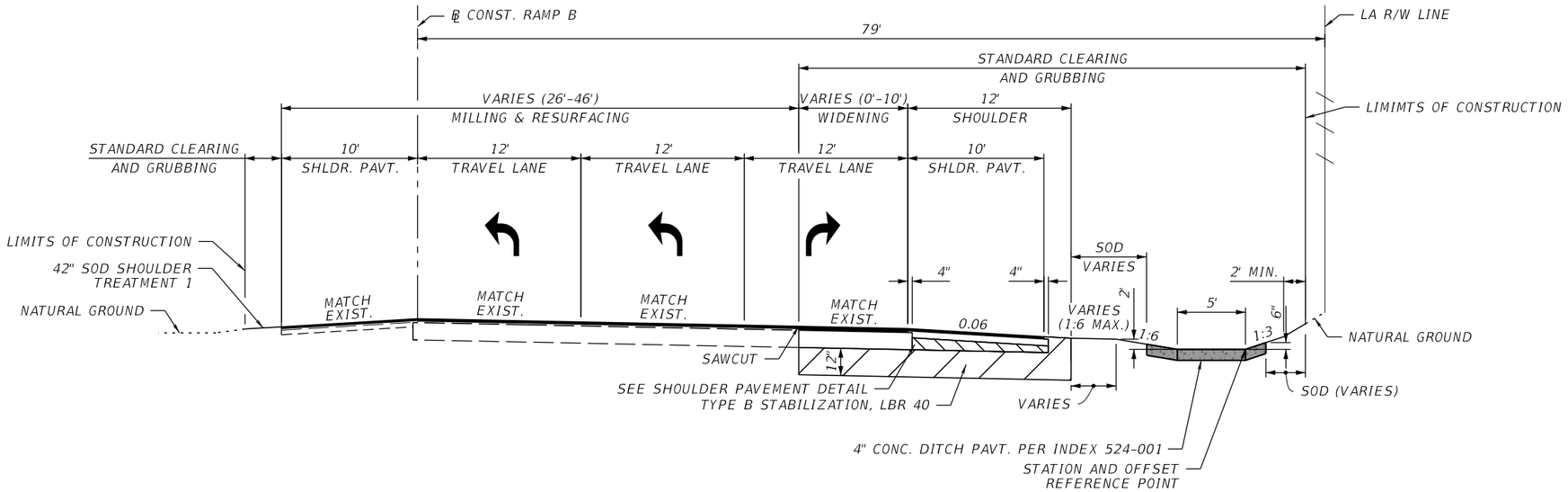
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 25	COLUMBIA	445725-5-54-02

TYPICAL SECTIONS

SHEET NO. 7

THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.

T:\WorkSets\Columbia County\44572515201\Roadway\TYPSRD01.dgn : TYPICALSHEETS BRIDGE
kmorgan 8/29/2025 3:11:14 PM



MILLING & RESURFACING

MILL EXISTING ASPHALT PAVEMENT (3.5" DEPTH)
TYPE SP STRUCTURAL COURSE (TRAFFIC E) (2") (HIGH POLYMER)
FRICTION COURSE FC-12.5 (TRAFFIC E) (1.5") (HIGH POLYMER)

SHOULDER MILLING AND RESURFACING

MILL EXISTING ASPHALT PAVEMENT (1.5" DEPTH)
FRICTION COURSE FC-12.5 (TRAFFIC E) (1.5") (HIGH POLYMER)

SHOULDER PAVEMENT

OPTIONAL BASE GROUP 1
TYPE SP STRUCTURAL COURSE (TRAFFIC E) (2") (HIGH POLYMER)
FRICTION COURSE FC-12.5 (TRAFFIC E) (1.5") (HIGH POLYMER)

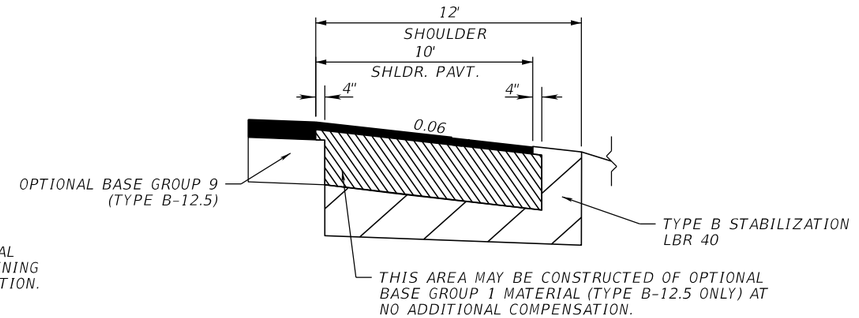
WIDENING

OPTIONAL BASE GROUP 9 (TYPE B-12.5 ONLY)
TYPE SP STRUCTURAL COURSE (TRAFFIC E) (2") (HIGH POLYMER)
AND FRICTION COURSE FC-12.5 (TRAFFIC E) (1.5") (HIGH POLYMER)

TYPICAL SECTION 4
I-75 RAMP B
STA. 29+97.95 TO STA. 33+06.58
N.T.S.

NOTE:

1. ACTUAL WIDTH OF BASE WIDENING MAY VARY DUE TO ACTUAL EXISTING PAVEMENT WIDTH. A UNIFORM WIDTH BASE WIDENING STRIP MAY BE CONSTRUCTED AT NO ADDITIONAL COMPENSATION.
2. LIMIT COMPACTION TO THE STATIC MODE ONLY.



SHOULDER PAVEMENT DETAIL

TRAFFIC DATA

CURRENT YEAR = 2025 AADT = 4790
ESTIMATED OPENING YEAR = 2027 AADT = 5320
ESTIMATED DESIGN YEAR = 2047 AADT = 10620
K = 9.5% D = 99.9% T = 29.5% (24 HOUR)
DESIGN HOUR T = 29.5%
DESIGN SPEED = 50 MPH
CONTEXT CLASSIFICATION = LA

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

BRYON S. WUCZYNSKI, P.E.
LICENSE NUMBER: 64090
OSIRIS 9 CONSULTING, LLC
13241 BARTRAM PARK BLVD STE 1109
JACKSONVILLE, FL 32258

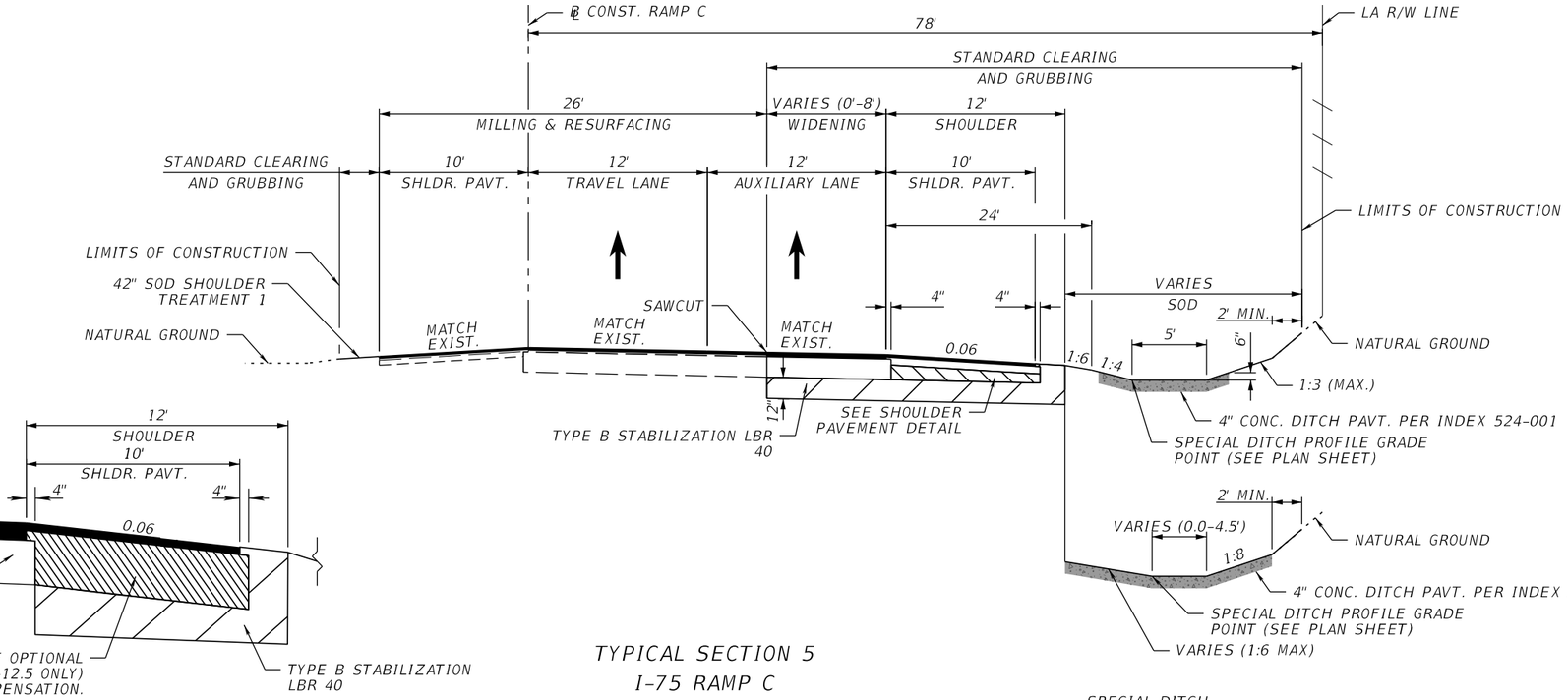
COLUMBIA CO BOCC

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 25	COLUMBIA	445725-5-54-02

TYPICAL SECTIONS

SHEET NO. 8

THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.



SHOULDER PAVEMENT DETAIL

TYPICAL SECTION 5
I-75 RAMP C
STA. 40+63.43 TO STA. 48+10.60
N.T.S

SPECIAL DITCH
STANDARD CLEARING AND GRUBBING
STA. 41+74.52 TO 42+22.87

SHOULDER MILLING AND RESURFACING

MILL EXISTING ASPHALT PAVEMENT (1.5" DEPTH)
FRICTION COURSE FC-12.5 (TRAFFIC E) (1.5") (HIGH POLYMER)

SHOULDER PAVEMENT

OPTIONAL BASE GROUP 1
TYPE SP STRUCTURAL COURSE (TRAFFIC E) (2") (HIGH POLYMER)
FRICTION COURSE FC-12.5 (TRAFFIC E) (1.5") (HIGH POLYMER)

WIDENING

OPTIONAL BASE GROUP 9 (TYPE B-12.5 ONLY)
TYPE SP STRUCTURAL COURSE (TRAFFIC E) (2") (HIGH POLYMER)
AND FRICTION COURSE FC-12.5 (TRAFFIC E) (1.5") (HIGH POLYMER)

MILLING & RESURFACING

MILL EXISTING ASPHALT PAVEMENT (3.5" DEPTH)
TYPE SP STRUCTURAL COURSE (TRAFFIC E) (2") (HIGH POLYMER)
FRICTION COURSE FC-12.5 (TRAFFIC E) (1.5") (HIGH POLYMER)

NOTE:

1. ACTUAL WIDTH OF BASE WIDENING MAY VARY DUE TO ACTUAL EXISTING PAVEMENT WIDTH. A UNIFORM WIDTH BASE WIDENING STRIP MAY BE CONSTRUCTED AT NO ADDITIONAL COMPENSATION.
2. LIMIT COMPACTION TO THE STATIC MODE ONLY.
3. USE RAMP C PAVEMENT DESIGN FOR RAMP A CONSTRUCTION.

TRAFFIC DATA

CURRENT YEAR = 2025 AADT = 4300
ESTIMATED OPENING YEAR = 2027 AADT = 7640
ESTIMATED DESIGN YEAR = 2047 AADT = 10410
K = 9.5% D = 99.9% T = 29.5% (24 HOUR)
DESIGN HOUR T = 29.5%
DESIGN SPEED = 50 MPH
CONTEXT CLASSIFICATION = LA

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

BRYON S. WUCZYNSKI, P.E.
LICENSE NUMBER: 64090
OSIRIS 9 CONSULTING, LLC
13241 BARTRAM PARK BLVD STE 1109
JACKSONVILLE, FL 32258

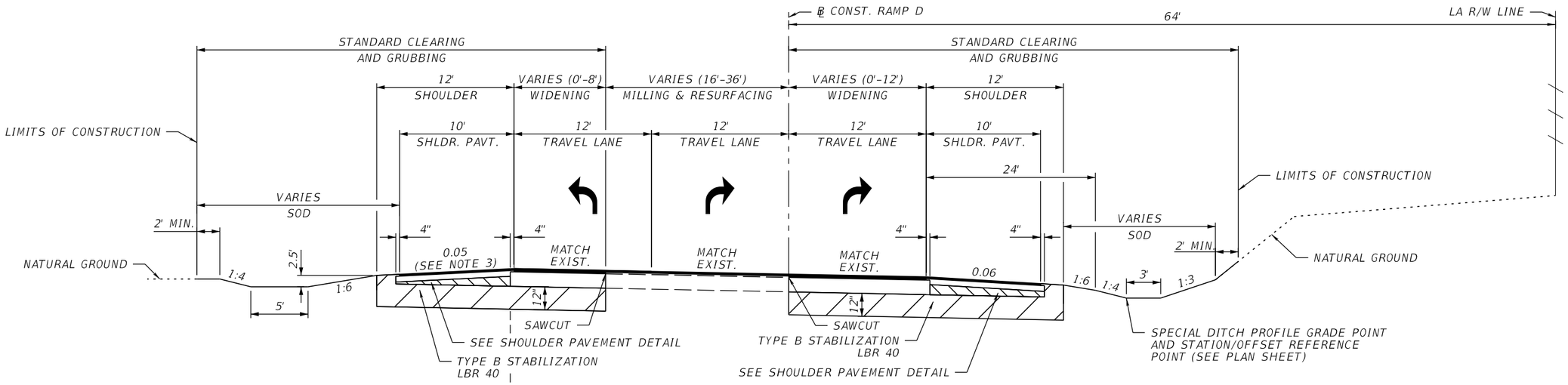
COLUMBIA CO BOCC

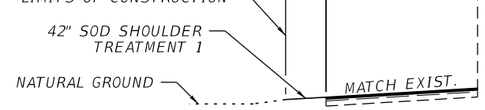
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 25	COLUMBIA	445725-5-54-02

TYPICAL SECTIONS

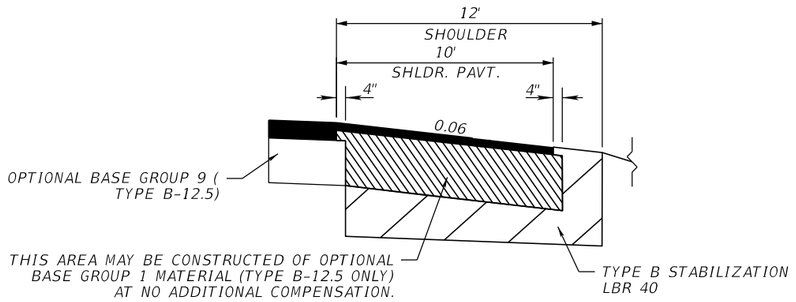
SHEET NO. 9

THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.





SHOULDER MILLING LT
STA. 71+31.93 TO STA. 72+17.59



SHOULDER PAVEMENT DETAIL

TYPICAL SECTION 6
I-75 RAMP D
STA. 68+30.89 TO STA. 72+62.19
N.T.S.

NOTE:

1. ACTUAL WIDTH OF BASE WIDENING MAY VARY DUE TO ACTUAL EXISTING PAVEMENT WIDTH. A UNIFORM WIDTH BASE WIDENING STRIP MAY BE CONSTRUCTED AT NO ADDITIONAL COMPENSATION.
2. LIMIT COMPACTION TO THE STATIC MODE ONLY.
3. CONSTRUCT SHOULDER CROSS SLOPE PER INDEX 000-510.

SHOULDER MILLING AND RESURFACING

MILL EXISTING ASPHALT PAVEMENT (1.5" DEPTH)
FRICTION COURSE FC-12.5 (TRAFFIC E) (1.5") (HIGH POLYMER)

SHOULDER PAVEMENT

OPTIONAL BASE GROUP 1
TYPE SP STRUCTURAL COURSE (TRAFFIC E) (2") (HIGH POLYMER)
FRICTION COURSE FC-12.5 (TRAFFIC E) (1.5") (HIGH POLYMER)

WIDENING

OPTIONAL BASE GROUP 9 (TYPE B-12.5 ONLY)
TYPE SP STRUCTURAL COURSE (TRAFFIC E) (2") (HIGH POLYMER)
AND FRICTION COURSE FC-12.5 (TRAFFIC E) (1.5") (HIGH POLYMER)

MILLING & RESURFACING

MILL EXISTING ASPHALT PAVEMENT (3.5" DEPTH)
TYPE SP STRUCTURAL COURSE (TRAFFIC E) (2") (HIGH POLYMER)
FRICTION COURSE FC-12.5 (TRAFFIC E) (1.5") (HIGH POLYMER)

TRAFFIC DATA

CURRENT YEAR = 2025 AADT = 3460
ESTIMATED OPENING YEAR = 2027 AADT = 3830
ESTIMATED DESIGN YEAR = 2047 AADT = 7460
K = 9.5% D = 99.9% T = 29.5% (24 HOUR)
DESIGN HOUR T = 29.5%
DESIGN SPEED = 50 MPH
CONTEXT CLASSIFICATION = LA

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

BRYON S. WUCZYNSKI, P.E.
LICENSE NUMBER: 64090
OSIRIS 9 CONSULTING, LLC
13241 BARTRAM PARK BLVD STE 1109
JACKSONVILLE, FL 32258

COLUMBIA CO BOCC

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 25	COLUMBIA	445725-5-54-02

TYPICAL SECTIONS

SHEET NO. 10

THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.

0 60 300
Feet

℄ CONST. RAMP D
60
MODLRD01
DRPRRD01
MODLRD-DITCH-01
℄ CONST. RAMP D
STA. 68+30.89 TO STA. 72+62.78
65
70
45
℄ CONST. RAMP C
MODLRD01
DRPRRD01
MODLRD-DITCH-01
℄ CONST. RAMP C
STA. 40+63.43 TO STA. 49+11.25
℄ SURVEY US 41
515
520
525
530
535
540
545
550
555
PDPLRD03
℄ CONST. SMF 1
MODLRD01
DRPRRD01
MODLRD-DITCH-01
℄ SURVEY US 41
STA. 519+00.00 TO STA. 549+80.00
30
MODLRD01
DRPRRD01
MODLRD-DITCH-01
℄ CONST. RAMP B
STA. 29+97.95 TO STA. 33+07.84
50
25
20
℄ CONST. RAMP B

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

BRYON S. WUCZYNSKI, P.E.
LICENSE NUMBER: 64090
OSIRIS 9 CONSULTING, LLC
13241 BARTRAM PARK BLVD STE 1109
JACKSONVILLE, FL 32258

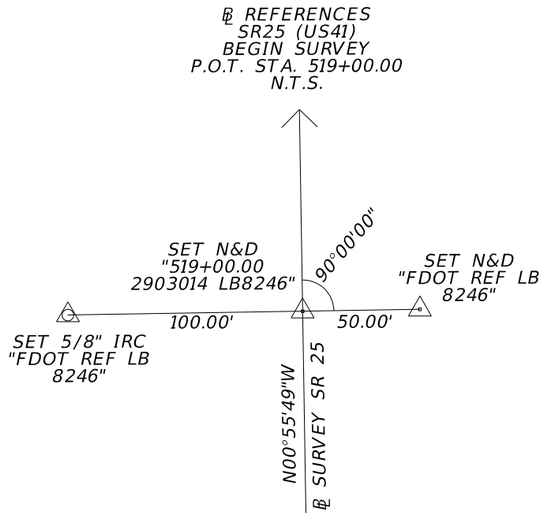
COLUMBIA CO BOCC

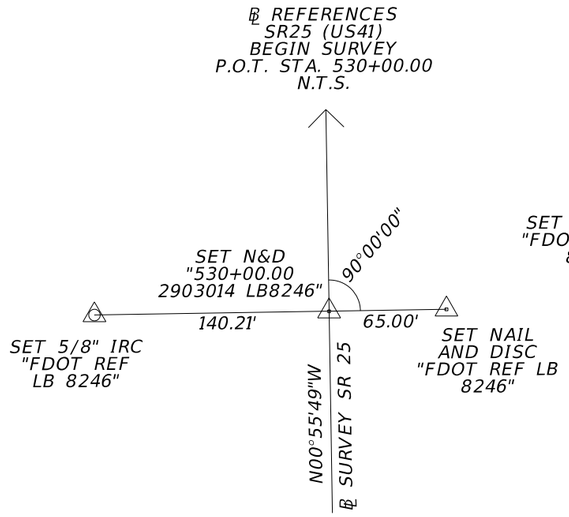
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 25	COLUMBIA	445725-5-54-02

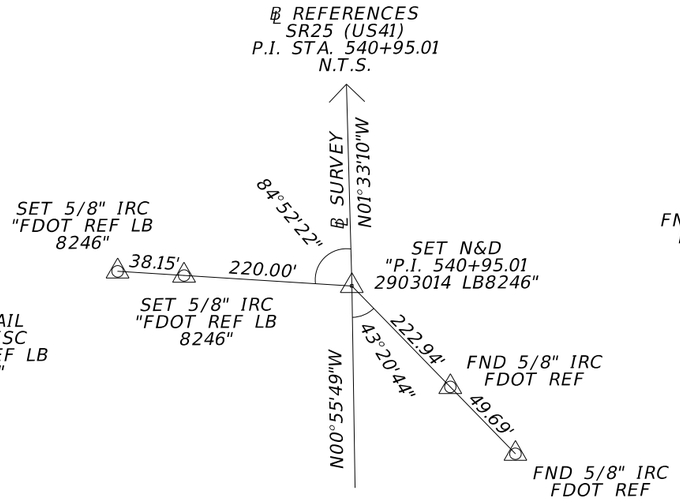
MODEL MANAGEMENT

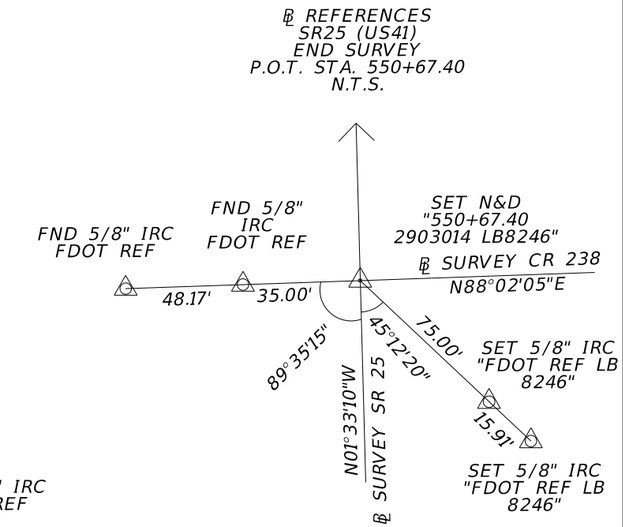
SHEET NO. 11

℄ REFERENCE POINTS









PRIMARY HORIZONTAL CONTROL

NAME	℄ STATION	OFFSET	ELEVATION (Z)	DESCRIPTION	NORTHING (Y)	EASTING (X)	LATITUDE	LONGITUDE
GPS1	538+68.39	35.36' RT		FND A POURED MONUMENT DISK STAMPED 2903010 GPS1	368872.2500	2570779.4100	30° 00' 01.7"	82° 35' 49.9"
ATRAV2	546+28.00	46.29' RT		SET 5/8" REBAR CLARY TRAV CAP	269632.3130	2570772.2130	30° 00' 09.3"	82° 35' 49.9"
GPS2	561+31.51	49.26' LT		FND POURED MONUMENT DISK STAMPED 2903010 GPS2	371132.6900	2570635.9500	30° 00' 24.1"	82° 35' 51.2"
C31	518+79.53	35.59' RT		FND RB W/FDOT ALUM CAP STAMPED C31 2903011.	366883.6600	2570811.9300	29° 59' 42.0"	82° 35' 50.0"
C12	523+00.78	50.00' RT		FND 6" ROUND POURED IN PLACE CMON 24" LONG. MARK IS RECESSED +/-" BELOW GOUND SURFACE. STAMPED 2918001 C12	367385.0800	2570818.1900	29° 59' 47.0"	82° 35' 49.8"

PRIMARY VERTICAL CONTROL

NAME	℄ STATION	OFFSET	ELEVATION (Z)	DESCRIPTION	NORTHING (Y)	EASTING (X)	LATITUDE	LONGITUDE
V1	537+53.39	61.69' RT	69.53	SET A 4X4 CMON DISK STAMPED 2903014 V1	368758	2570808	30° 00' 00.6"	82° 35' 49.6"
V2	550+21.22	1338.80' RT	121.01	SET 4X4 CMON DISK STAMPED 2903014 V2	370060	2572054	30° 00' 13.3"	82° 35' 35.2"
BM1	551+30.11	62.09' RT	75.02	FND POURED CMON DISK STAMPED 2908002 BM1	370135	2570774	30° 00' 14.2"	82° 35' 49.8"
BM2	563+84.85	79.42' RT	93.44	FND POURED CMON DISK STAMPED BC 47 RESET 1958	371389	2570758	30° 00' 26.7"	82° 35' 49.7"
BM16	517+09.59	84.60' LT	86.24	FOUND 10" PMON WITH FDOT BRASS DISK STAMPED 2903011BM16	366712	2570695	29° 59' 40.4"	82° 35' 51.3"

PROJECT CONTROL NOTES:

1. PROJECT IS BASED ON THE FLORIDA STATE PLANE COORDINATE SYSTEM NAD 1983/2011 HORIZONTAL NORTH ZONE 0903. HORIZONTAL CONTROL IS BASED ON THE FLORIDA PERMANENT REFERENCE NETWORK.

2. ELEVATIONS ARE BASED ON NORTH AMERICAN VERTICAL DATUM (NAVD88). POURED CONCRETE MONUMENT BRASS DISK STAMPED BC 47 RESET 1958 ELEVATION 93.44.

3. LOCALIZATION TO PROTECT CONTROL IS REQUIRED BY THE DEPARTMENT.

℄ REFERENCE POINTS

℄ STATION	NORTHING (Y)	EASTING (X)
519+00.00	366903.546	2570776.012
530+00.00	368003.401	2570758.156
540+95.01	369098.270	2570740.380
550+67.40	370070.300	2570714.030

LEGEND

- = NAIL & DISK
- = 5/8" IRC
- = 4"X4" CONCRETE MONUMENT
- = 1/2" IRON PIPE
- = DRILL HOLE
- = STAMPED DISK

FND = FOUND
CMON = 4"X4" CONCRETE MONUMENT
IRC = IRON ROD AND CAP
I.P. = IRON PIPE
N&D = NAIL AND DISK
℄ = BASELINE SURVEY

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

CHAD COLSON, P.S.M.
LICENSE NUMBER: 7142
CHW, INC. (AN NV5 COMPANY)
11801 RESEARCH DRIVE
ALACHUA, FL 32615

COLUMBIA CO BOCC

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 25	COLUMBIA	445725-5-54-02

PROJECT CONTROL

SHEET NO. 12

FAC NOTE

GENERAL NOTES

1. ALL SURVEY INFORMATION WAS OBTAINED FROM A LICENSED FLORIDA PROFESSIONAL SURVEYOR AND MAPPER AND UTILIZED AS SUPPORTING DATA IN THE PRODUCTION OF DESIGN PLANS AND FOR CONSTRUCTION ON SUBJECT PROJECT. THE PROFESSIONAL SURVEYOR AND MAPPER OF RECORD IS:

   CHAD COLSON
   P.S.M. NO: 7142
   CHW, INC.
   11801 RESEARCH DRIVE
   ALACHUA, FL 32615
   CERTIFICATE OF AUTHORIZATION NO: 8246

2. MAINTAIN THE CONSTRUCTION SITE IN A SECURE MANNER. PROTECT ALL OPEN TRENCHES AND EXCAVATED AREAS FROM ACCESS BY THE GENERAL PUBLIC.

3. MAINTAIN ALL COMPONENTS OF THE EROSION AND SEDIMENTATION CONTROL PLAN UNTIL ALL VEGETATION IS ESTABLISHED, THE ENTIRE PROJECT AREA IS STABILIZED, AND THE OWNER HAS ACCEPTED OPERATION AND MAINTENANCE.

4. PLACE SOD ON ALL SLOPES OF THE STORMWATER FACILITIES. USE STAKED SOD ON SLOPES STEEPER THAN 1:3.

5. ALL UNPAVED AREAS IN EXISTING RIGHT OF WAY DISTURBED BY CONSTRUCTION, EXCEPT FOR THE BOTTOM AREA OF SMF 1, SHALL BE REGRADED AND SODDED USING CENTIPEDE SOD. ALL SEEDED AREAS SHALL BE BAHIA.

6. UTILITY/AGENCY OWNERS FOR THIS PROJECT INCLUDE:

AT&T	CRAIG PETRIE	407-578-8000	CPETRIE@PEA-INC.NET
CLAY ELECTRIC	CHRIS BRYAN	352-473-8000X8428	CBRYAN@CLAYELECTRIC.COM
COLUMBIA COUNTY SEWER AND WATER	CHAD WILLIAMS	386-755-1019	CHAD_WILLIAMS@COLUMBIACOUNTYFLA.COM
TRAFFIC CONTROL DEV.	DAVID NAGESSAR	904-693-9254	D.NAGESSAR@TCD-USA.COM
DISTRICT 2 ITS INFRASTRUCTURE	JOSE MORALES	904-903-2013	

7. A PRE-CONSTRUCTION MEETING IS REQUIRED PRIOR TO BEGINNING CONSTRUCTION.

8. NOTIFY THE COUNTY PUBLIC WORKS DEPARTMENT AT LEAST 48 HOURS PRIOR TO BEGINNING CONSTRUCTION AT (386) 758-1019.

9. NO WORK WILL BE PERFORMED ON SUNDAY OR COUNTY RECOGNIZED HOLIDAY WITHOUT A WRITTEN APPROVAL FROM THE COUNTY ADMINISTRATOR.

10. PROVIDE AN AS-BUILT SURVEY MEETING THE REQUIREMENTS OF CHAPTER 61G17 F.A.C. FOR THE STORMWATER MANAGEMENT SYSTEMS. INCLUDE HORIZONTAL AND VERTICAL DIMENSIONAL DATA SO THAT IMPROVEMENTS ARE LOCATED AND DELINEATED RELATIVE TO THE BOUNDARY. THIS AS-BUILT SURVEY SHOULD INCLUDE ALL OUTFALL STRUCTURES. PROVIDE SUFFICIENTLY DETAILED DATA TO DETERMINE WHETHER THE IMPROVEMENTS WERE CONSTRUCTED IN ACCORDANCE WITH THE PLANS. A COPY OF THE AS-BUILT SURVEY (IN PAPER AND DIGITAL OPENROADS DESIGNER FORMAT) MUST BE SUBMITTED TO THE COUNTY AND THE ENGINEER.

11. SUBMIT A NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM NOTICE OF INTENT ALONG WITH SUPPORTING DOCUMENTATION TO THE FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION AT LEAST 48 HOURS PRIOR TO BEGINNING CONSTRUCTION. CONTRACTOR IS RESPONSIBLE FOR ALL PERMIT FEES.

12. MAINTAIN ACCESS TO MAILBOXES THROUGHOUT CONSTRUCTION.

13. MILLED ASPHALT MATERIAL WILL BECOME THE PROPERTY OF THE COUNTY. TRANSPORT MILLING MATERIAL TO THE COUNTY'S YARD LOCATED AT THE FOLLOWING ADDRESS:

    2375 SE GILES MARTIN AVE,
    LAKE CITY, FL 32024

    CONTACT CHAD WILLIAMS AT 386-758-1019 FOR COORDINATING PLACEMENT AT STOCKPILE SITE.

14. INSTALL FILTER FABRIC OVER ALL DRAINAGE STRUCTURES FOR THE DURATION OF CONSTRUCTION AND UNTIL ACCEPTANCE OF THE PROJECT BY THE OWNER. ALL DRAINAGE STRUCTURES SHALL BE CLEANED OF DEBRIS AS REQUIRED DURING AND AT THE END OF CONSTRUCTION TO PROVIDE POSITIVE DRAINAGE FLOWS.

15. NO FILL SHALL BE PLACED INTO A SUBMERGED STATE WITHOUT THE ENGINEER'S APPROVAL.

16. INSTALL ALL UNDERGROUND STORMWATER PIPING PER COUNTY, FDOT, AND MANUFACTURER'S RECOMMENDATIONS. IF RECOMMENDATIONS CONFLICT, THE MOST STRINGENT RECOMMENDATIONS SHALL BE USED.

17. FIFTEEN MINUTES PRIOR TO INITIATING MOT FOR A LANE CLOSURE, CONTACT THE DISTRICT 2 REGIONAL TRAFFIC MANAGEMENT CENTER (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 COMPLETE AND LANE(S) ARE REOPENED, CONTACT DISTRICT 2 RTMC WITHIN 30 MINUTES TO NOTIFY THEM THAT THE CLOSURES HAVE BEEN REMOVED.

18. WHEN CONSTRUCTION IS COMPLETE, SUBMIT A CERTIFIED SURVEY CONFIRMING THE AS-BUILT MINIMUM VERTICAL CLEARANCE IS EQUAL TO OR GREATER THAN THE MINIMUM DESIGN VERTICAL CLEARANCE CALLED FOR IN THE PLANS.

19. 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.

20. TREES TO REMAIN SHALL BE PROTECTED IN ACCORDANCE WITH FDOT STANDARD PLANS INDEX 110-100.

21. THE EXISTING RAISED MEDIAN FROM STATION 540+55.70 TO STATION 543+36.79 IS A DESIGNATED WILDFLOWER AREA. DISTURBED AREAS SHALL BE RESEEDED WITH WILDFLOWER SEEDS IN ACCORDANCE WITH FDOT STANDARD INDEX 570-001 AND SPECIFICATION 570. UNDISTURBED AREAS SHALL BE PRESERVED AND PROTECTED IN ACCORDANCE WITH FDOT SPECIFICATION 107 AND 570.

STORMWATER DRY RETENTION

1. STORMWATER DRY RETENTION SWALES/PONDS ARE DESIGNED WHERE RECOVERY IS DEPENDENT UPON INFILTRATION OF STORMWATER RUNOFF INTO THE SOIL. THE DRY RETENTION AREAS ARE SUSCEPTIBLE TO CLOGGING FROM CONSTRUCTION SEDIMENTS AND THEREFORE HAVE SPECIAL CONSTRUCTION REQUIREMENTS.

2. THE USE OF DRY RETENTION SWALES/PONDS FOR CONSTRUCTION STAGING OR STORAGE IS PROHIBITED.

3. AVOID USE OF PERMANENT DRY RETENTION AREAS (SWALES/PONDS) FOR TEMPORARY SETTLING BASINS. IF PERMANENT DRY RETENTENTION AREAS ARE NECESSARY FOR TEMPORARY SETTLEMENT BASINS, COMPLY WITH THE FOLLOWING REQUIREMENTS:

   •LIMIT TEMPORARY SETTLEMENT BASINS TO AREAS REQUIRED FOR CONSTRUCTION.
   •PARTIALLY CONSTRUCT SWALES/PONDS BY EXCAVATING PONDS TO A DEPTH SIX (6) INCHES ABOVE THE PROPOSED BOTTOM ELEVATION. OVERFILL EMBANKMENT SWALES/PONDS SIX (6) INCHES ABOVE THE PROPOSED BOTTOM ELEVATION.
   •CONSTRUCT TEMPORARY BERMS TO SEPARATE TEMPORARY SETTLING BASINS FROM PERMANENT DRY RETENTION SWALES/PONDS.
   •REMOVE THE FINAL (6) INCHES OF SOIL AND ADDITIONAL ACCUMULATION OF SEDIMENTS AND FINES ABOVE THE PROPOSED BOTTOM ELEVATION AND DISPOSE OF OFF-SITE.
   •SUBSOIL REMOVAL: REMOVE THE EXISTING SOILS BELOW THE PROPOSED DRY RETENTION SWALE/POND AS SHOWN IN THE SECTION VIEWS. THIS EXISTING SOIL SHALL NOT BE RE-UTILIZED AS BACKFILL MATERIAL FOR SWALE/POND CONSTRUCTION.
   •FOLLOWING SUBSOIL EXCAVATION, ROOT RAKE THE INSITU DRY RETENTION BOTTOM AREA TO A DEPTH OF TWELVE (12) INCHES. THE SOILS SHALL REMAIN UNCOMPACTED AFTER ROOT RAKING IS COMPLETE. BACKFILL THE PROPOSED DRY RETENTION SWALE/POND WITH A-3 SAND MEETING THE REQUIREMENTS SPECIFIED BELOW AND WITHIN LIMITS SHOWN IN THE PLANS. GRADE THE A-3 MATERIAL IN A LOOSE, UNCOMPACTED STATE TO THE PROPOSED BOTTOM ELEVATIONS SPECIFIED IN THE PLANS.

4. A-3 SAND UTILIZED AS BACKFILL WITHIN THE DRY RETENTION SWALE/POND SHALL CONSIST OF SP-SM / A-3 SAND WITH LESS THAN 10% PASSING THE NO. 200 SIEVE IN ACCORDANCE WITH AASHTO T-88 AND BE DEMONSTRATED TO HAVE A MINIMINUM LABORATORY PERMEABILITY OF THE VALUES SHOWN BELOW IN ACCORDANCE WITH AASHTO T-215 ON SOILS COMPACTED TO AT LEAST 98% OF THE STANDARD PROCTOR PER AASHTO T-99, METHOD C.

5. UPON COMPLETION OF THE FINAL DRY RETENTION SWALE/POND GRADING, SCARIFY THE BOTTOM SURFACE TO A DEPTH OF TWELVE (12) INCHES BELOW THE BOTTOM ELEVATION WITH LIGHT EARTH MOVING EQUIPMENT TO LOOSEN THE SURFACE SOIL.

6. NINETY (90) DAYS PRIOR TO FINAL ACCEPTANCE AND ONCE ALL ADJACENT AREAS HAVE BEEN STABILIZED, PERFORM A MINIMUM OF ONE DOUBLE RING INFILTRATION TEST (ASTM D3385/MINIMUM 4-HOUR TEST) EVERY 500 LF ALONG EACH OF THE DRY RETENTION SWALE/POND BOTTOMS TO VERIFY THE SOIL INFILTRATION MEETS 20 FT PER DAY. SUBMIT ALL TESTING DATA TO THE COUNTY'S PROJECT MANAGER. COST IS INCLUDED IN PAY ITEM NO. 120-6.

7. SHOULD THE TESTING RESULTS INDICATE SOIL INFILTRATION RATES DO NOT MEET THE SPECIFIED CRITERIA, CONSULT THE ENGINEER TO DETERMINE IF RATES ARE SUFFICIENT OR IF REMEDIATION IS NECESSARY. IF REMEDIATION IS REQUIRED, PREPARE AN ACTION PLAN TO ACHIEVE THE REQUIRED INFILTRATION. ONCE APPROVED BY THE ENGINEER, IMPLEMENT THE ACTION PLAN. COST IS INCLUDED IN PAY ITEM NO 120-6.

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

BRYON S. WUCZYNSKI, P.E.
LICENSE NUMBER: 64090
OSIRIS 9 CONSULTING, LLC
13241 BARTRAM PARK BLVD STE 1109
JACKSONVILLE, FL 32258

COLUMBIA CO BOCC

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 25	COLUMBIA	445725-5-54-02

GENERAL NOTES

SHEET NO. 13

0 10 40
Feet

BEGIN PROJECT
BEGIN MILLING & RESURFACING
STA. 519+00.00

SR 25 (US 41)

518 519 520 521 522 523

℄ SURVEY SR 25 (US 41)

N00°55'49"W

R/W LINE

+00.00
16.98' RT.

+11.73
42.84' RT.

+84.36
13.00' RT.

SAWCUT EXIST. PAVT.

R 30'

435' R

+53.87
41.98' RT.

+68.71
41.88' RT.

REPLACE MAILBOX
PER INDEX 110-200

+00.00
30.13' LT.

+88.30
31.77' LT.

5' PAVED SHOULDER

SAWCUT EXIST. PAVT.

+58.50
35.17' LT.

GRADE TO DRAIN

+10.00
13.00' RT.

+00

5' PAVED SHOULDER
TYPICAL DITCH RT

+98.31
22.47' LT.

+98.39
18.47' LT.

2' R

VARIABLE WIDTH TYPE I
OPT. II CONC. TRAFFIC SEPARATOR

4' TYPE I OPT. II CONC.
TRAFFIC SEPARATOR

+61.05
23.72' LT.

+61.13
19.72' LT.

+50.17
5.50' LT.

2' R

+50.21
1.50' LT.

SAWCUT EXIST. PAVT.

+26.41
13.00' RT.

EXIST. STRUCTURE
AND PIPE TO BE
REMOVED

+77.42
41.14' RT.

+95.86
28.57' RT.

15' R

10' R

S-100

+10

P-100

TH 6

+74.94
43.55' RT.

5' PAVED SHOULDER

TH 5

EXIST. STRUCTURE &
PIPES TO BE REMOVED

S-101

TH 4

P-101

+19.30
40.97' RT.

TH 7

EXIST. PIPE AND STRUCTURES
TO REMAIN

+04.00
6.58' LT.

71.5' R

MATCHLINE STA. 523+20.00

INSET A

505 SR 25 (US 41) 506

℄ SURVEY SR 25 (US 41)

BEGIN CONSTRUCTION
STA. 505+60.00

SECTION A-A
N.T.S.

UNPAVED SHLDR. BREAK

NATURAL GROUND

1.5'

1:6

5'

1:4

LEGEND

- 4" MILLING/RESURFACING
- WIDENING (MAINLINE PAVEMENT DESIGN)
- SHOULDER PAVEMENT
- PAVEMENT REMOVAL

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REVISIONS			
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OSIRIS 9 CONSULTING, LLC
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JACKSONVILLE, FL 32258

COLUMBIA CO BOCC

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 25	COLUMBIA	445725-5-54-02

ROADWAY PLAN (1)

SHEET NO. 14

IMPROVEMENTS TO HOWELL ROAD TO BE CONSTRUCTED BY OTHERS

HOWELL ROAD

0 10 40 Feet

FLUME TO SPECIAL DITCH LT.
EXIST. CONC. FLUME
SAWCUT
INSET A

EXIST. STRUCTURE AND PIPE TO REMAIN
EXIST. PIPE AND STRUCTURE TO REMAIN
S-105
+62.00 79.68' LT. EL. 76.00
R/W LINE
+35.00 79.38' LT.
EXIST. DITCH PAVT. TO BE REMOVED
25KV
5' R
DITCH SLOPE -1.695%
+26.25 74.82' LT.
REMOVE REMAINING ASPHALT PAVEMENT TO R/W LINE
EX-103
MATCH EXIST. EL.
+26.25 59.35' LT.
ExP-103 (EXIST. PIPE TO REMAIN. CONNECT TO S-104)
VARIABLE WIDTH TYPE I OPT. II CONC. TRAFFIC SEPARATOR
+48.77 23.49' LT.
+52.38 25.55' LT.
+99.79 26.50' LT.
2' R
71.5' R
+73.89 21.34' LT.
+99.92 22.50' LT.
+28.95 2.80' LT.
+25.59 1.50' LT.
5' R
36' R
P-101
S-102
+46.30 48.99' RT.
P-104
S-104
+50.87 52.00' LT.
+64.86 70.58' LT.
EXIST. DITCH PAVT. TO BE REMOVED FROM STA. 524+26.25 TO STA. 525+13.03
SAWCUT EXIST. PAVT.
5' PAVED SHOULDER
SAWCUT EXIST. PAVT. +82.30 13.00' RT.
+84.26 13.00' RT.
+29.33 13.00' RT.
+80.00 36.00' RT.
+45.00 30.00' RT.
TH 3
GRADE TO DRAIN
EXIST. STRUCTURE TO BE REMOVED
EXIST. SIDE DRAIN TO REMAIN
EXIST. STRUCTURES & PIPE TO BE REMOVED
+90.00 77.66' LT.
+55.00 82.76' LT.
+98.00 84.93' LT.
+98.00 77.05' LT. EL. 72.00
+98.92 52.00' LT.
+41.27 52.00' LT.
SPECIAL DITCH LT
5' PAVED SHOULDER
SAWCUT EXIST. PAVT.
SR 25 (US 41)
℄ SURVEY SR 25 (US 41)
N00°55'49"W
65'
524 525 526 527 528
MATCHLINE STA. 523+20.00
MATCHLINE STA. 528+80.00
+75.12 13.00' RT.
+45.29 13.00' RT.
+00.82 13.00' RT.
+75.89 126.11' LT.
+76.16 117.22' LT.
+76.23 108.77' LT.
CONNECTION TO PROPOSED DRIVEWAY (CONSTRUCTED BY OTHERS)
+59.85 126.42' LT.
+54.86 126.21' LT.
+60.16 117.07' LT.
BUSY BEE DRIVEWAY PROFILE LT
BUSY BEE DRIVEWAY PROFILE RT
+60.24 108.62' LT.
S88°32'20"W 88.32'
GRADE TO DRAIN
EXIST. DITCH PAVT. TO BE REMOVED
70' R
65' R
49' R
S-107
PI STA 4+68.09
EL 130.96
+24.44 65.01' LT.
+24.85 55.71' LT.
+69.39 67.01' LT.
+76.94 21.99' LT.
6' R
+77.19 11.00' LT.
EXIST. SIDE DRAIN TO REMAIN
5' PAVED SHOULDER
SAWCUT EXIST. PAVT.
EXIST. PIPE AND STRUCTURE TO REMAIN
TH 2
EXIST. SIDE DRAIN TO REMAIN
MES SLAB REPLACEMENT
MONITORING WELL MW-13 (PROTECT DURING CONSTRUCTION)

LEGEND

- 4" MILLING/RESURFACING
- 1.5" MILLING/RESURFACING
- PAVEMENT REMOVAL
- WIDENING (MAINLINE PAVEMENT DESIGN)
- 4" CONC. DITCH PAVT. PER INDEX 524-001
- SHOULDER PAVEMENT

2

45 VC
K = 11.25
STA. 2+00.00
EL. 72.02
VPC +00.84 EL. 72.05
(+)3.000%
+3.000%
+7.000%
VPT +45.84 EL. 74.30
STA. 2+75.60
EL. 76.38
(+)7.000%
BUSY BEE DRIVEWAY PROFILE LT
SCALE
1" = 40' Horizontal
1" = 4' Vertical
76
72
68
72.02'
VPI +23.34
EL. 72.72
73.03'
74.59'
76.34'

4

BUSY BEE DRIVEWAY PROFILE RT
(-)9.000%
70 VC
K = 8.24
STA. 4+00.00
EL. 76.18
VPC +12.46 EL. 75.06
-9.000%
-0.500%
(-)0.500%
VPT +82.46 EL. 71.74
STA. 4+96.03
EL. 71.67
SCALE
1" = 40' Horizontal
1" = 4' Vertical
76
72
68
76.18'
VPI +47.46
EL. 71.91
74.03'
72.54'
71.81'

REVISIONS			
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BRYON S. WUCZYNSKI, P.E.
LICENSE NUMBER: 64090
OSIRIS 9 CONSULTING, LLC
13241 BARTRAM PARK BLVD STE 1109
JACKSONVILLE, FL 32258

COLUMBIA CO BOCC

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 25	COLUMBIA	445725-5-54-02

ROADWAY PLAN (2)

SHEET NO. 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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SECTION A-A
N.T.S.
FLAT (VARIES)
NATURAL GROUND
2'
1:3
5'
1:4

STATION AND OFFSET REFERENCE POINT AND PROFILE GRADE POINT

TYPE A FENCE
+00.15
85.99' RT.

EXIST. STRUCTURE TO BE REMOVED. EXIST. PIPE TO BE GROUT FILLED TO R/W

LA R/W LINE

EXIST. GUARDRAIL TO BE REMOVED

+04.78
44.37' RT.

(SEE ROADWAY PLAN 7) MATCHLINE STA. 71+80.00

CURVE DATA
PI STA. = 72+19.36
Δ = 16°32'49" (LT)
D = 24°54'40"
T = 33.44
L = 66.42
R = 230.00
PC STA. = 71+85.92
PT STA. = 72+52.34
e = EXIST.

N
0 10 40
Feet

+80.76
128.67' LT.
R/W LINE

EXISTING DITCH PAVEMENT TO BE REMOVED

SPECIAL DITCH LT

DITCH SLOPE -0.9%

S-108

50' R

+24.97
93.50' LT.
EL. 68.65

EXIST. SIDE DRAIN TO REMAIN

+77.52
62.50' LT.

+04.85
62.50' LT.

+67.45
99.18' LT.

157' R

+71.34

+85.92

PC STA. +85.92

10' PAVED SHOULDER

RAMP D

EX-203

5' PAVED SHOULDER

SAWCUT EXIST. PAVT.

25KV

49' R

+27.41
60.27' LT.

5' PAVED SHOULDER

EXISTING MONITORING WELLS (TO BE ABANDONED BY OTHERS)

PT STA. +52.34

TYPE E C & G

EXIST. DBL PIPE, STRUCTURE, AND DITCH PAVEMENT TO REMAIN

SEE INTERSECTION DETAIL SHEET FOR ADDITIONAL INFORMATION

BUSY BEE DWY PROFILE RT

+84.74
58.38' LT.

+78.32
26.50' LT.

+74.61
26.34' LT.

36'

SR 25 (US 41)

STA. 80+00.00 ℄ CONST. SMF 1 =
STA. 532+47.03 ℄ SURVEY SR 25 (US 41)

SAWCUT EXIST. PAVT. ALONG PROP. CURB LINE

+60.00
11.00' LT.

TYPE E C & G

MATCHLINE STA. 528+80.00

529 530 531 532 533 534

℄ SURVEY SR 25 (US 41)

℄ CONST. RAMP D

59°26'59"E

73'

TYPE E C & G

+65.90
11.00' LT.

MATCHLINE STA. 534+40.00

EXISTING MONITORING WELLS (TO BE ABANDONED BY OTHERS)

58.52°

CURVE DATA
PI STA. = 4+68.09
Δ = 92°00'50" (LT)
D = 116°55'49"
T = 50.75
L = 78.69
R = 49.00
PC STA. = 4+17.34
PT STA. = 4+96.03
e = 0.000

STA. 73+36.06 ℄ CONST. RAMP D =
STA. 531+26.10 ℄ SURVEY SR 25 (US 41)

N00°55'49"W

℄ CONST. SMF 1

83.64'

80'

P-204-1, CONNECT TO EXIST. DBL PIPE WITH CONC. JACKET PER FDOT INDEX 430-001

5' PAVED SHOULDER
SAWCUT EXIST. PAVT.

24'

S-204

TYPE E C & G

SAWCUT EXIST. PAVT.

EXIST. STRUCTURE TO BE REMOVED

P-204

MAINTENANCE BERM

EXIST. GUARDRAIL TO BE REMOVED

S-204A

EXIST. PIPES AND STRUCTURE TO REMAIN

0.06

R/W LINE

25KV

120/240 V

0.02

2' UNPAVED SHOULDER

S-205

25KV

POND BOTTOM

RAMP A

0.06

EXIST. STRUCTURE TO REMAIN

+81.90
97.67' RT.

LA R/W LINE

MONITORING WELL MW-18 (PROTECT DURING CONSTRUCTION)

18

S84°34'24"E

SMF 1

5' UNPAVED SHOULDER

5' PAVED SHOULDER

SAWCUT ALONG EXIST. LANE LINE

+56.06
142.64' RT.

+86.85
145.88' RT.

+76.94
144.84' RT.

S-208

P-209

S-209

LEGEND

- 4" MILLING/RESURFACING
- 3.5" MILLING/RESURFACING
- 1.5" MILLING/RESURFACING
- WIDENING (MAINLINE PAVEMENT DESIGN)
- WIDENING (RAMP PAVEMENT DESIGN)
- PAVEMENT REMOVAL
- MISCELLANEOUS ASPHALT
- SHOULDER PAVEMENT
- TREES TO BE REMOVED

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

BRYON S. WUCZYNSKI, P.E.
LICENSE NUMBER: 64090
OSIRIS 9 CONSULTING, LLC
13241 BARTRAM PARK BLVD STE 1109
JACKSONVILLE, FL 32258

COLUMBIA CO BOCC

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 25	COLUMBIA	445725-5-54-02

ROADWAY PLAN (3)

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.

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CURVE DATA
PI STA. = 70+44.04
Δ = 04°53'49" (RT)
D = 02°45'02"
T = 89.07
L = 178.03
R = 2,083.00
PC STA. = 69+54.97
PT STA. = 71+33.00
e = EXIST.

N

0 10 40
Feet

SEE INTERSECTION DETAIL SHEET FOR ADDITIONAL INFORMATION

SR 93 (I-75)

2" MISC. ASPHALT
EXIST. GUARDRAIL TO BE REMOVED

SPECIAL DITCH LT
+80.26
92.47' LT.
EL. 69.75

DITCH SLOPE -7.3%

+38.05
121.23' LT.

120' R

151'

80' R

100' R

BRIDGE NO. 290053

BRIDGE NO. 290082

+75.29
67.50' LT.

5' PAVED SHOULDER

SAWCUT EXIST. PAVT.

4.5' PAVED SHOULDER

PIER STRENGTHENING
SEE DETAIL SHEET

SR 25 (US 41)

+75.29
62.52' LT.

+86.31
38.50' LT.

36'

24'

EXIST. GUARDRAIL TO BE REMOVED

PIER STRENGTHENING
SEE DETAIL SHEET

TYPE E CURB AND GUTTER

EXIST. PIPE
TO REMAIN

MATCHLINE STA. 534+40.00

535 536 537 538 539 54

N00°55'49"W

℄ SURVEY SR 25 (US 41)

5' PAVED SHOULDER

SAWCUT EXIST. PAVT.

4.5' PAVED SHOULDER

EXIST. GUARDRAIL TO BE REMOVED

2" MISC. ASPHALT

PIER STRENGTHENING
SEE DETAIL SHEET

5' PAVED SHOULDER

25KV

EX-300

MATCHLINE STA. 540+00.00

SR 93 (I-75)

LEGEND

- 4" MILLING/RESURFACING
- 1.5" MILLING/RESURFACING
- WIDENING (MAINLINE PAVEMENT DESIGN)
- PAVEMENT REMOVAL
- MISCELLANEOUS ASPHALT
- SHOULDER PAVEMENT
- TREES TO BE REMOVED

NOTE: SEE GUARDRAIL DETAIL FOR ADDITIONAL INFORMATION

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

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OSIRIS 9 CONSULTING, LLC
13241 BARTRAM PARK BLVD STE 1109
JACKSONVILLE, FL 32258

COLUMBIA CO BOCC

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 25	COLUMBIA	445725-5-54-02

ROADWAY PLAN (4)

SHEET NO. 17

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(SEE ROADWAY PLAN 8)
MATCHLINE STA. 41+60.00

S-302
P-302
S-301
P-305A
RAMP C
41
STA. 41+40.98
0.00' RT.
P-304
EXIST. STRUCTURE TO BE REMOVED
GROUT FILL 60 LF OF 18" PIPE TO REMAIN. SEE TTC PLAN FOR DETAILS
EXIST. DITCH PAVT. TO BE REMOVED
LA R/W LINE
EXIST. STRUCTURE TO BE REMOVED
SPECIAL DITCH RT
DITCH SLOPE -2.42%
P-306
S-305
S-306
REMOVE 51 LF OF EXIST. PIPE. SEE TTC PLAN FOR DETAILS
S89°18'42"W
P-305
S-305A
+81.21
90.15' LT.
EL. 71.00
5' PAVED SHOULDER
EX-307
R/W LINE
EXIST. STRUCTURE AND PIPE TO REMAIN
TH 1
25KV
EXIST. STRUCTURE AND PIPE TO REMAIN
REMOVE EXIST. DRAINAGE STRUCTURE AND DITCH PAVEMENT
P-301-1, CONNECT TO EXIST. PIPE WITH CONC. JACKET PER FDOT INDEX 430-001
℄ CONST. RAMP C
+72.91
59.85' LT.
5' PAVED SHOULDER
SAWCUT EXIST. PAVT.
+95.13
54.53' LT.
DESIGNATED WILDFLOWER AREA
SEE NOTE ON GENERAL NOTES SHEET
SR 25 (US 41)
POT STA. +95.01
90.24°
541
542
543
544
545
N00°55'49"W
N01°33'10"W
℄ SURVEY SR 25 (US 41)
+01.94
13.00' RT.
5' PAVED SHOULDER
+63.02
25.68' RT.
STA. 40+00.93 ℄ CONST. RAMP C =
STA. 540+71.65 ℄ SURVEY SR 25 (US 41)
STA. 33+19.86 ℄ CONST. RAMP B =
STA. 540+32.37 ℄ SURVEY SR 25 (US 41)
107.57°
33
PI STA. 32+92.05
STA. 32+58.70
0.00' RT.
PC STA. +58.70
25KV
SEE INTERSECTION DETAIL SHEET FOR ADDITIONAL INFORMATION
EXIST. SIDE DRAIN TO REMAIN
EXIST. SIDE DRAIN TO REMAIN
EXIST. SIDE DRAIN TO REMAIN
R/W LINE
RAMP B
32
N52°45'19"W
℄ CONST. RAMP B
STA. 32+58.70
36.00' RT.
+72.61
84.02' RT.
EL. 68.25
DITCH SLOPE 1.17%
10' PAVED SHOULDER
SPECIAL DITCH RT
335' R
LA R/W LINE
(SEE ROADWAY PLAN 10)
MATCHLINE STA. 31+80.00

MATCHLINE STA. 540+00.00
MATCHLINE STA. 545+60.00

0 10 40
Feet

CURVE DATA
PI STA. = 32+92.05
Δ = 56°33'19" (LT)
D = 92°24'45"
T = 33.35
L = 61.20
R = 62.00
PC STA. = 32+58.70
PT STA. = 33+19.89
e = EXIST.

LEGEND

- 4" MILLING/RESURFACING
- 3.5" MILLING/RESURFACING
- 1.5" MILLING/RESURFACING
- SHOULDER PAVEMENT
- TREES TO BE REMOVED
- WIDENING (MAINLINE PAVEMENT DESIGN)
- WIDENING (RAMP PAVEMENT DESIGN)
- 4" CONC. DITCH PAVT. PER INDEX 524-001
- PAVEMENT REMOVAL

REVISIONS			
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LICENSE NUMBER: 64090
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13241 BARTRAM PARK BLVD STE 1109
JACKSONVILLE, FL 32258

COLUMBIA CO BOCC

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 25	COLUMBIA	445725-5-54-02

ROADWAY PLAN (5)

SHEET NO. 18

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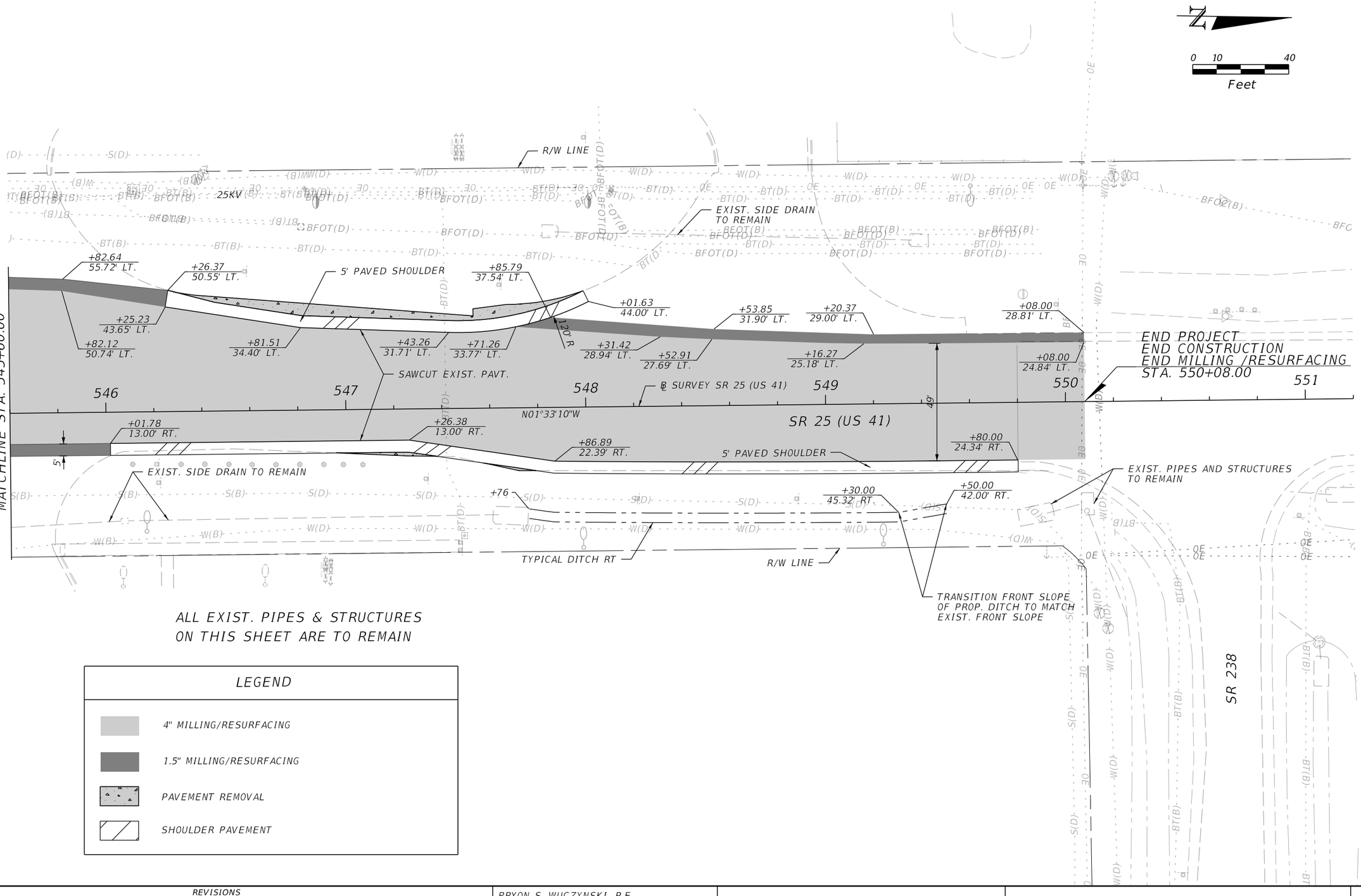

ALL EXIST. PIPES & STRUCTURES ON THIS SHEET ARE TO REMAIN

LEGEND

- 4" MILLING/RESURFACING
- 1.5" MILLING/RESURFACING
- PAVEMENT REMOVAL
- SHOULDER PAVEMENT

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

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LICENSE NUMBER: 64090
OSIRIS 9 CONSULTING, LLC
13241 BARTRAM PARK BLVD STE 1109
JACKSONVILLE, FL 32258

COLUMBIA CO BOCC		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 25	COLUMBIA	445725-5-54-02

ROADWAY PLAN (6)

SHEET NO. 19

THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.

T:\WorkSets\Columbia County\44572515201\Roadway\PLANRD01.dgn : US 41 - PLAN 8 [SHEET]
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PI STA. = 70+44.04
Δ = 04°53'49" (RT)
D = 02°45'02"
T = 89.07
L = 178.03
R = 2,083.00
PC STA. = 69+54.97
PT STA. = 71+33.00
e = EXIST.

0 10 40
Feet

SEE INTERSECTION DETAIL SHEET FOR ADDITIONAL INFORMATION

BE - FDOT CENTRAL OFFICE ITS LOCATE AND PROTECT OBTAIN ENGINEER APPROVAL PRIOR TO ADJUSTMENT

+80.89 51.00' LT.

TYPICAL DITCH LT

5'

BEGIN DITCH WIDTH TRANSITION

+28.81 53.90' LT.

+94.29 51.00' LT.

+47.30 43.28' LT.

+80.89 24.00' LT.

10' PAVED SHOULDER

PI STA. 70+44.04

EXIST. DBL PIPE TO REMAIN

LIMITS OF CONSTRUCTION
BEGIN WIDENING
BEGIN MILLING & RESURFACING
STA. 68+30.89

+30.89 16.00' LT.

+28.81 24.00' LT.

+47.56 16.00' LT.

67 68 69 70 71

36'

PC STA. +54.97

+60.10 0.51' RT.

SAWCUT EXIST. PAVT.

℄ CONST. RAMP D

RAMP D

PT STA. +33.00

+72.50 12.00' RT.

S47°47'59"E

SAWCUT EXIST. PAVT.

+43.27 12.00' RT.

EXIST. GUARDRAIL TO BE REMOVED

S42°54'10"E

+80.89 12.00' RT.

+12.59 10.47' RT.

+40.00 28.25' RT.

+33.00 28.25' RT. EL. 69.85

+80.89 36.89' RT.

+83.00 36.68' RT. EL. 69.50

SPECIAL DITCH RT

DITCH SLOPE -0.684%

DITCH SLOPE -1.155%

EXIST. STRUCTURE TO REMAIN, EXIST. DITCH PAVT. TO BE REMOVED

EX-202

DITCH SLOPE -1.816%

+45.00 42.41' RT. EL. 66.00

MATCHLINE STA. 71+80.00
(SEE ROADWAY PLAN 3)

+47.16 62.79' RT.

+60.00 64.29' RT.

+60.00 37.03' RT. EL. 67.50

S-201

+65.00 44.43' RT. EL. 66.00

+79.17 83.46' RT.

BE - FDOT CENTRAL OFFICE ITS LOCATE AND PROTECT OBTAIN ENGINEER APPROVAL PRIOR TO ADJUSTMENT

LA R/W LINE

TYPE A FENCE

EXIST. DITCH PAVT. TO BE REMOVED UP TO R/W

P-201, CONNECT TO EXIST. HEADWALL WITH CONC. COLLAR PER INDEX 430-001

LEGEND

- 3.5" MILLING/RESURFACING
- 1.5" MILLING/RESURFACING
- WIDENING (RAMP PAVEMENT DESIGN)
- PAVEMENT REMOVAL
- 4" CONC. DITCH PAVT. PER INDEX 524-001
- SHOULDER PAVEMENT
- TREES TO BE REMOVED

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REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

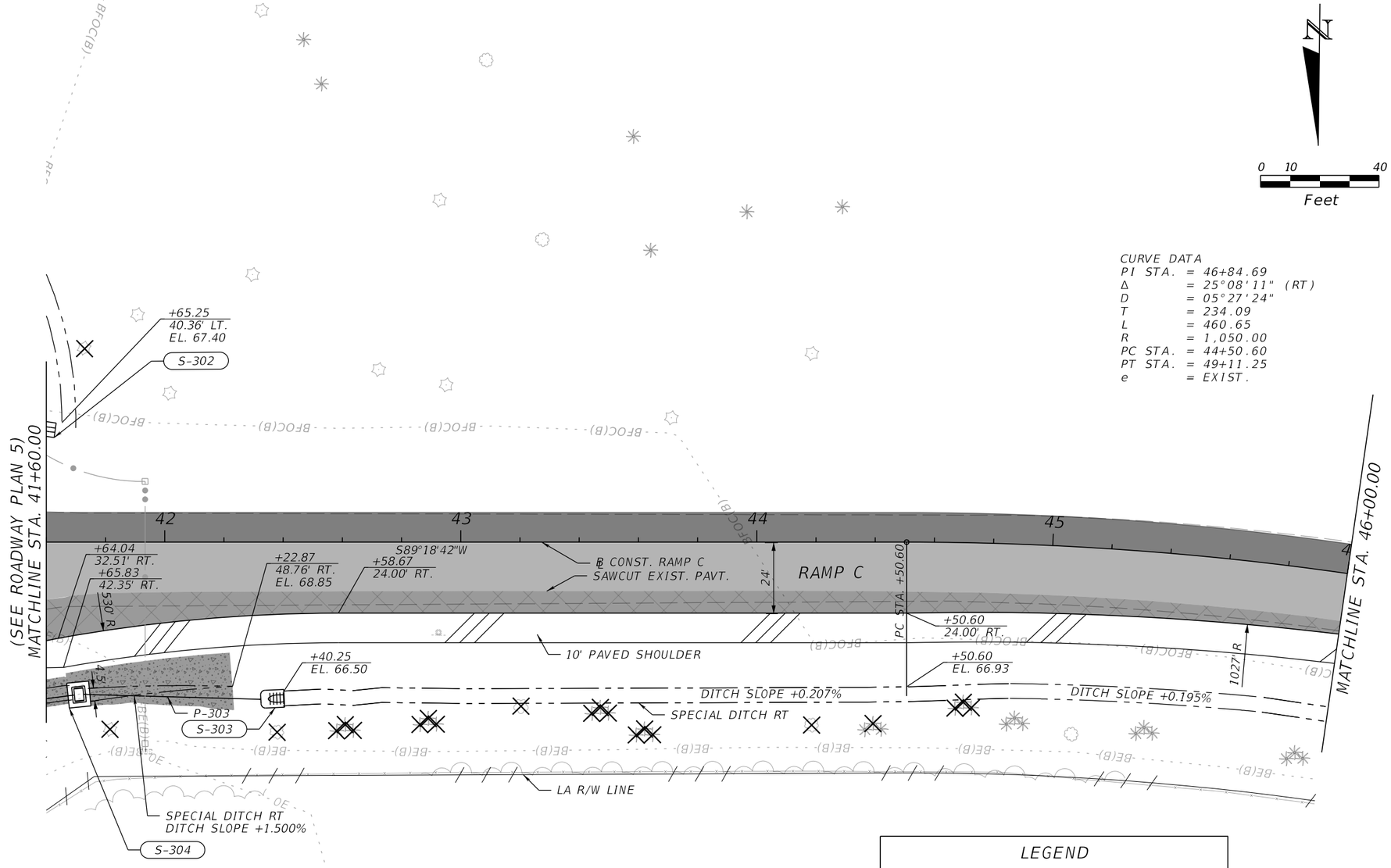
BRYON S. WUCZYNSKI, P.E.
LICENSE NUMBER: 64090
OSIRIS 9 CONSULTING, LLC
13241 BARTRAM PARK BLVD STE 1109
JACKSONVILLE, FL 32258

COLUMBIA CO BOCC

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 25	COLUMBIA	445725-5-54-02

ROADWAY PLAN (7)

SHEET NO. 20



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REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

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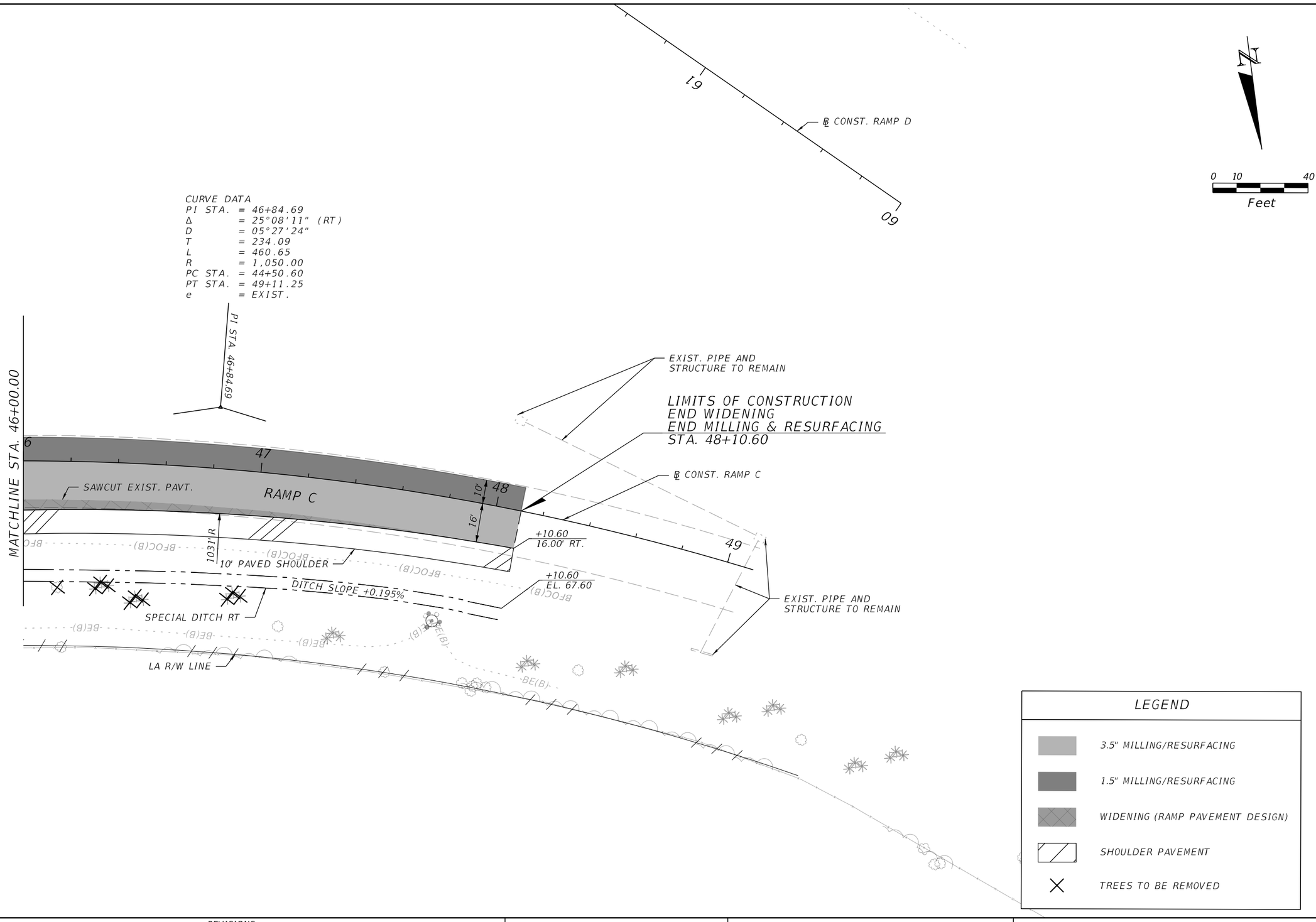
JACKSONVILLE, FL 32258

COLUMBIA CO BOCC

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 25	COLUMBIA	445725-5-54-02

ROADWAY PLAN (8)

SHEET NO. 21



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REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

BRYON S. WUCZYNSKI, P.E.
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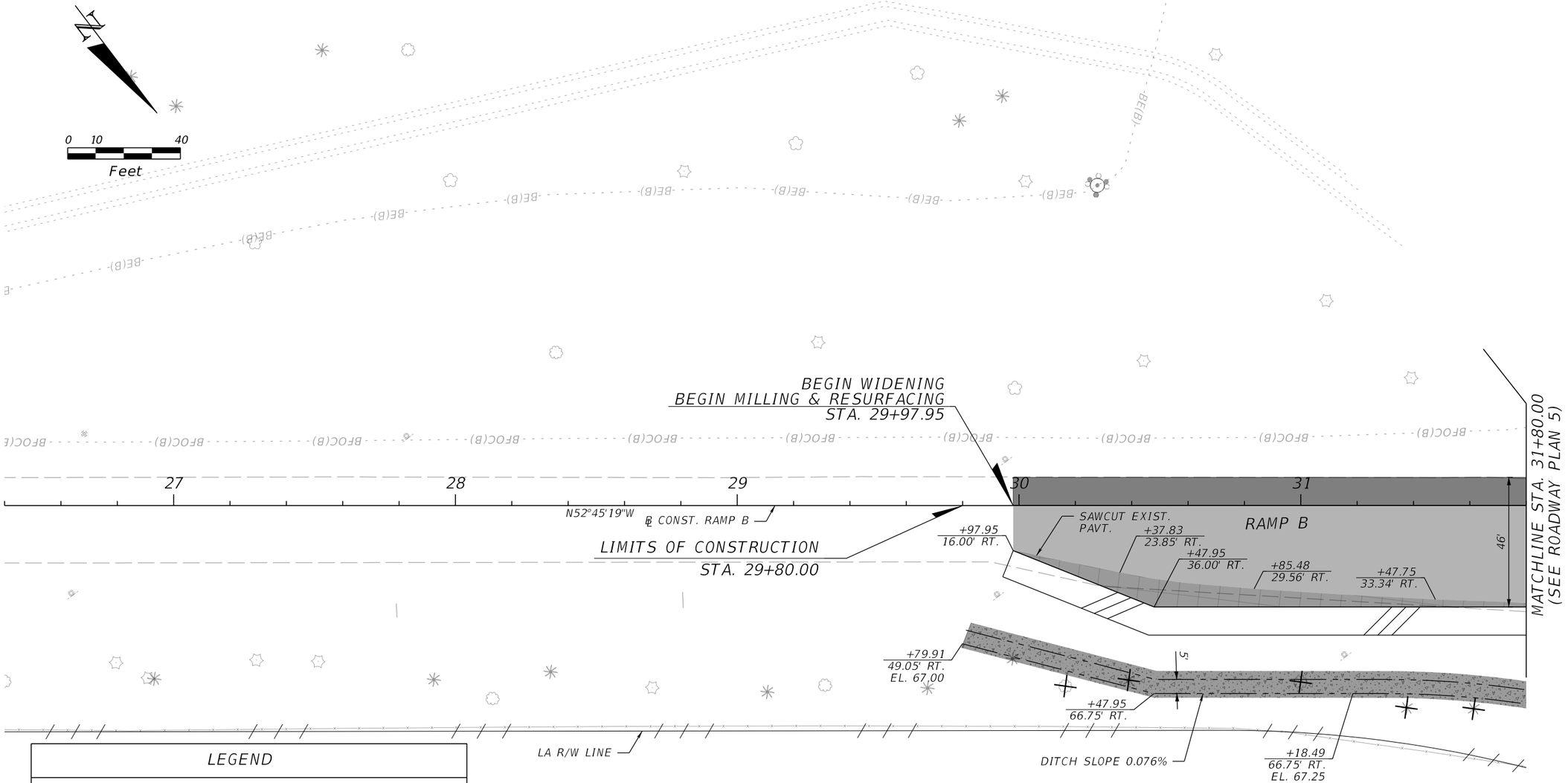
JACKSONVILLE, FL 32258

COLUMBIA CO BOCC

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 25	COLUMBIA	445725-5-54-02

ROADWAY PLAN (9)

SHEET NO. 22



LEGEND

- 3.5" MILLING/RESURFACING
- 1.5" MILLING/RESURFACING
- WIDENING (RAMP PAVEMENT DESIGN)
- TREES TO BE REMOVED
- 4" CONC. DITCH PAVT. PER INDEX 524-001
- SHOULDER PAVEMENT

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

BRYON S. WUCZYNSKI, P.E.
LICENSE NUMBER: 64090
OSIRIS 9 CONSULTING, LLC
13241 BARTRAM PARK BLVD STE 1109
JACKSONVILLE, FL 32258

COLUMBIA CO BOCC

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 25	COLUMBIA	445725-5-54-02

ROADWAY PLAN (10)

SHEET NO. 23

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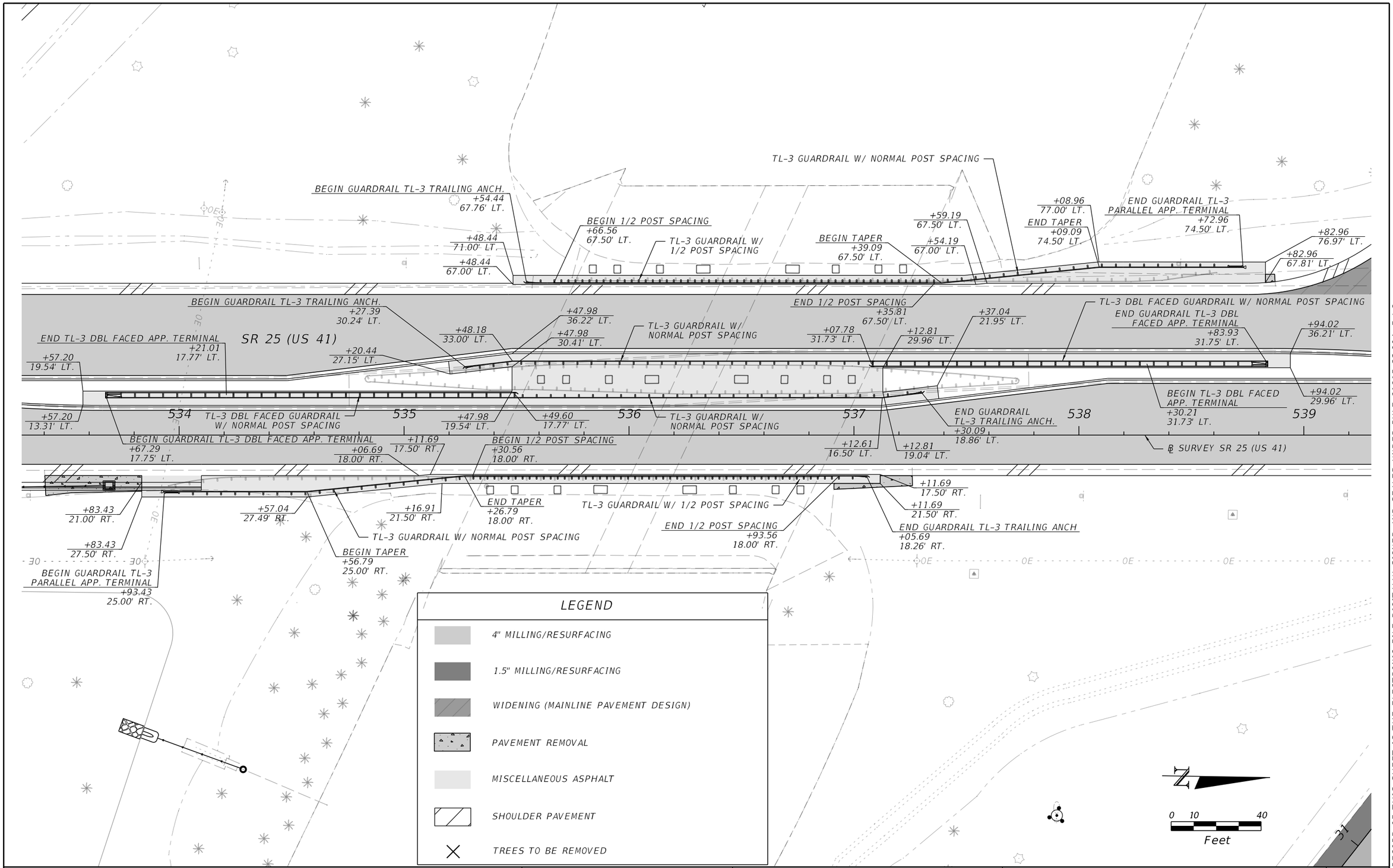

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REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

BRYON S. WUCZYNSKI, P.E.
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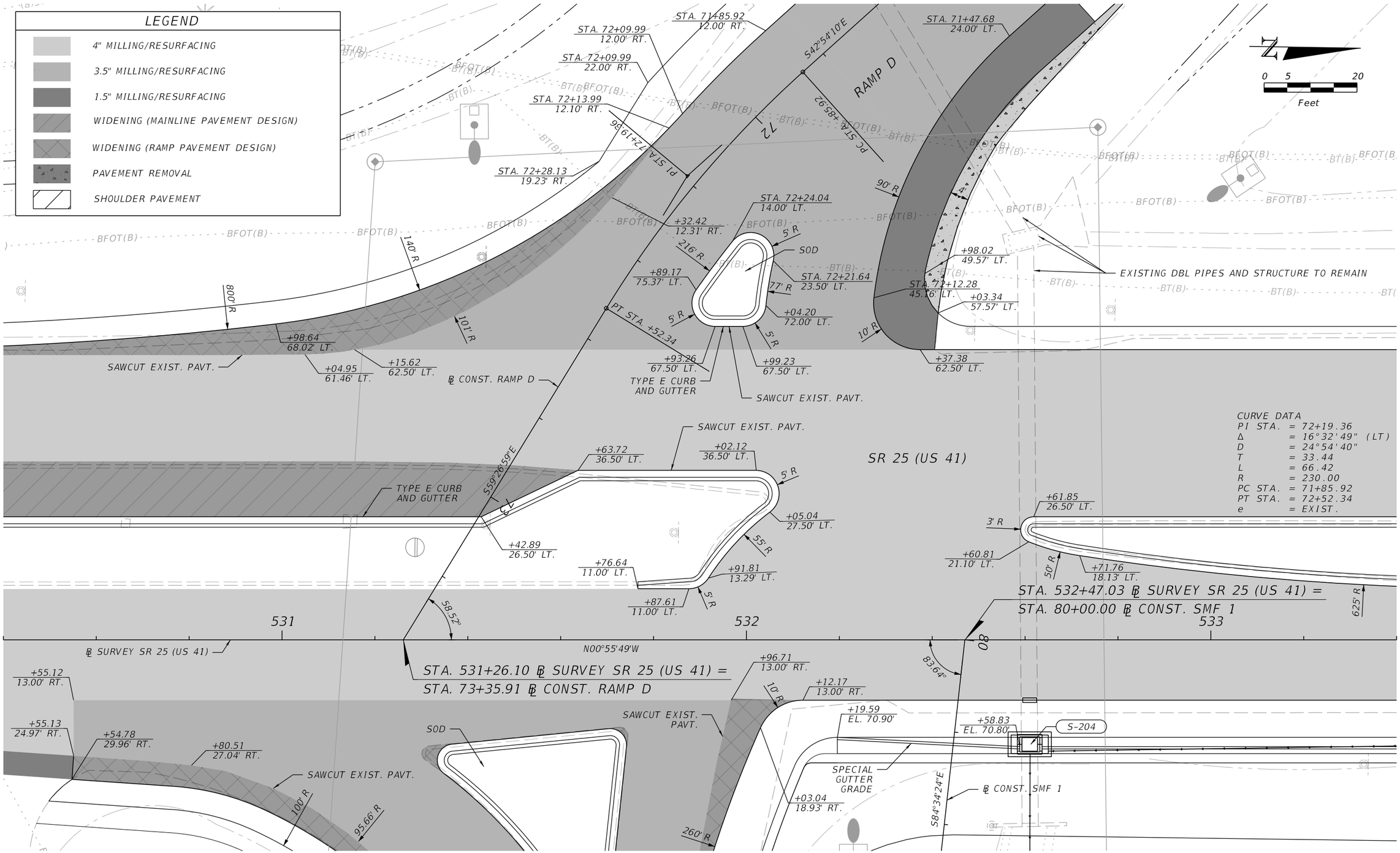
13241 BARTRAM PARK BLVD STE 1109
JACKSONVILLE, FL 32258

COLUMBIA CO BOCC

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 25	COLUMBIA	445725-5-54-02

GUARDRAIL DETAIL

SHEET NO. 24



REVISIONS			
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BRYON S. WUCZYNSKI, P.E.
LICENSE NUMBER: 64090
OSIRIS 9 CONSULTING, LLC
13241 BARTRAM PARK BLVD STE 1109
JACKSONVILLE, FL 32258

COLUMBIA CO BOCC

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 25	COLUMBIA	445725-5-54-02

INTERCHANGE DETAILS

SHEET NO. 25

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T:\WorkSets\Columbia County\44572515201\Roadway\INTDRD01.dgn : RAMP DETAIL – PLAN 1 [SHEET]
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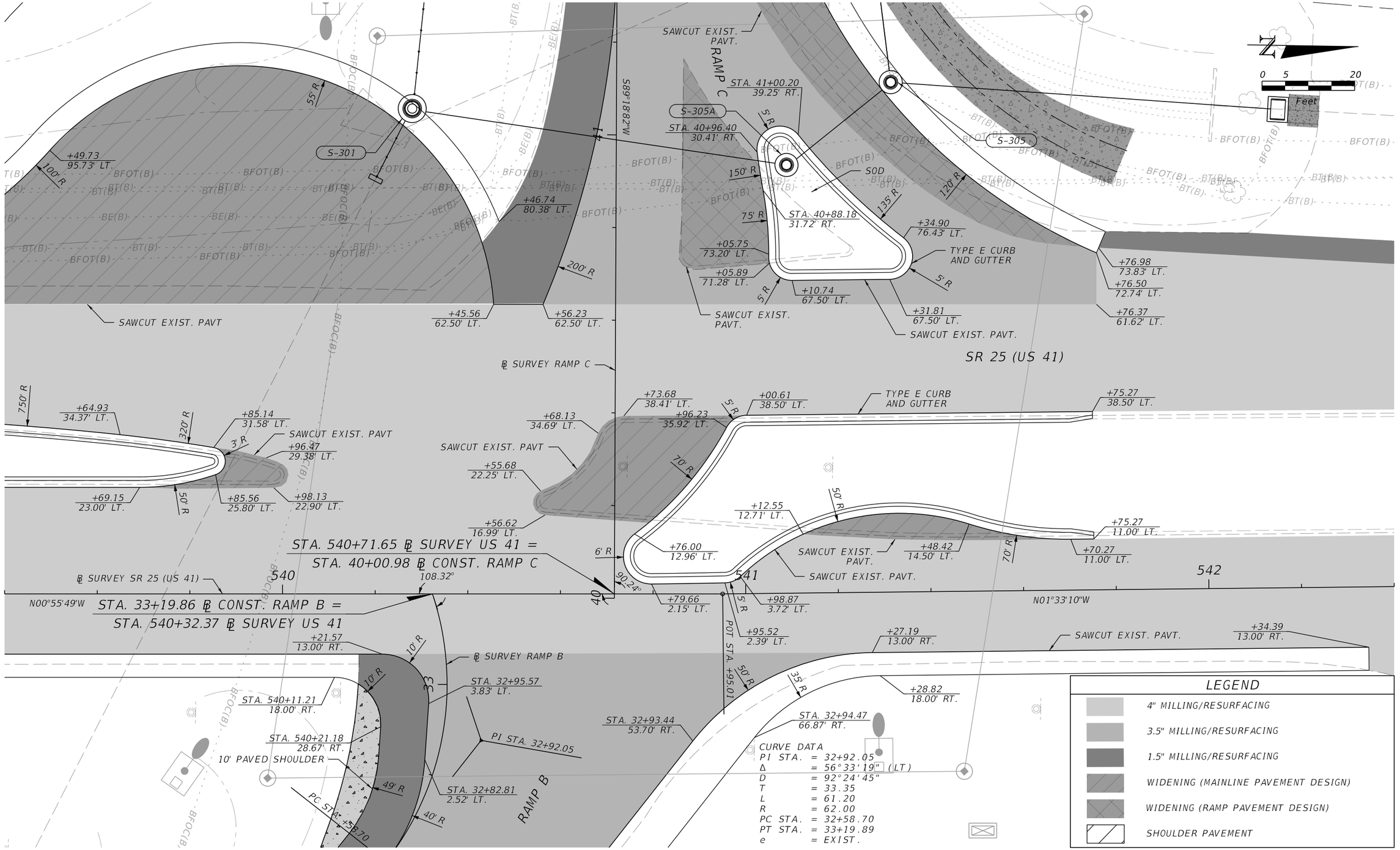

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

BRYON S. WUCZYNSKI, P.E.
LICENSE NUMBER: 64090
OSIRIS 9 CONSULTING, LLC
13241 BARTRAM PARK BLVD STE 1109
JACKSONVILLE, FL 32258

COLUMBIA CO BOCC

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 25	COLUMBIA	445725-5-54-02

INTERCHANGE DETAILS

SHEET NO. 26

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T:\WorkSets\Columbia County\44572515201\Roadway\INTDRD01.dgn : RAMP DETAIL - PLAN 2 [SHEET]
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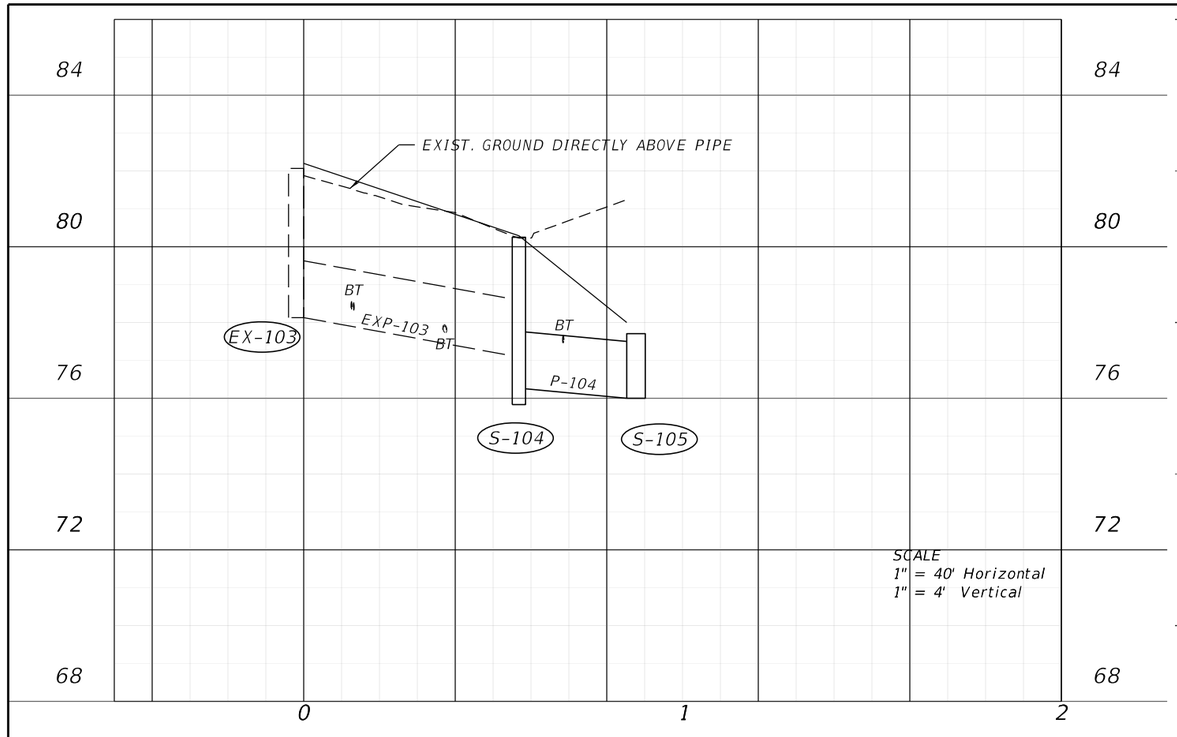

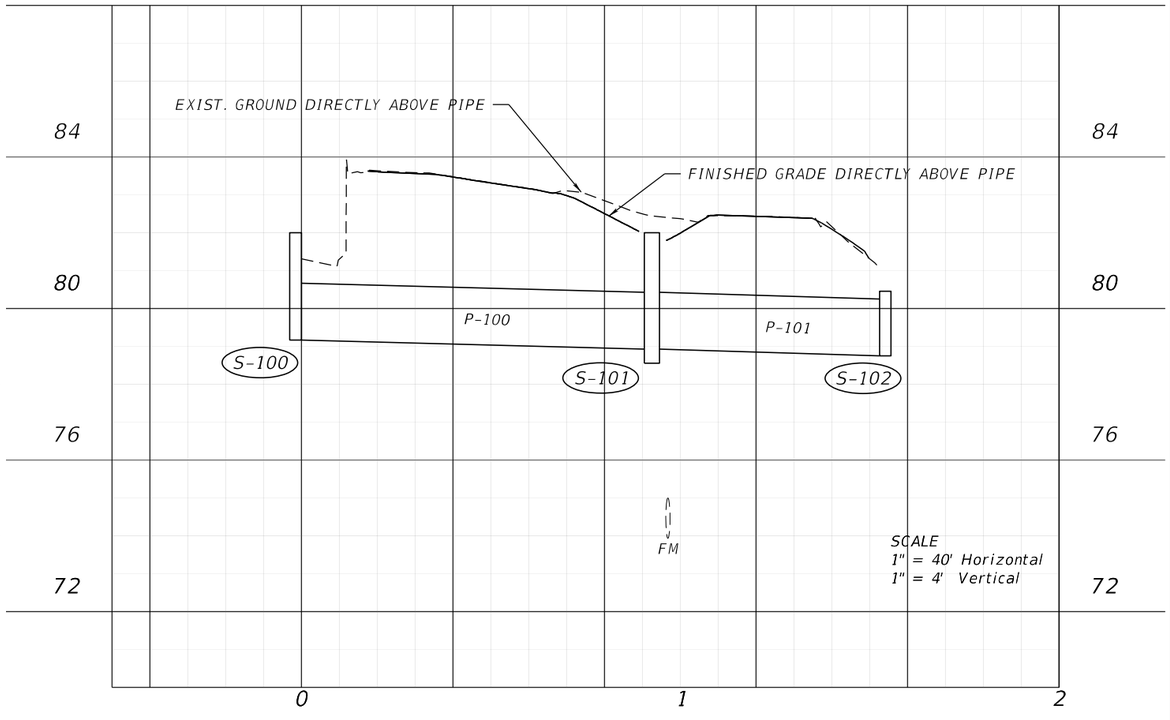

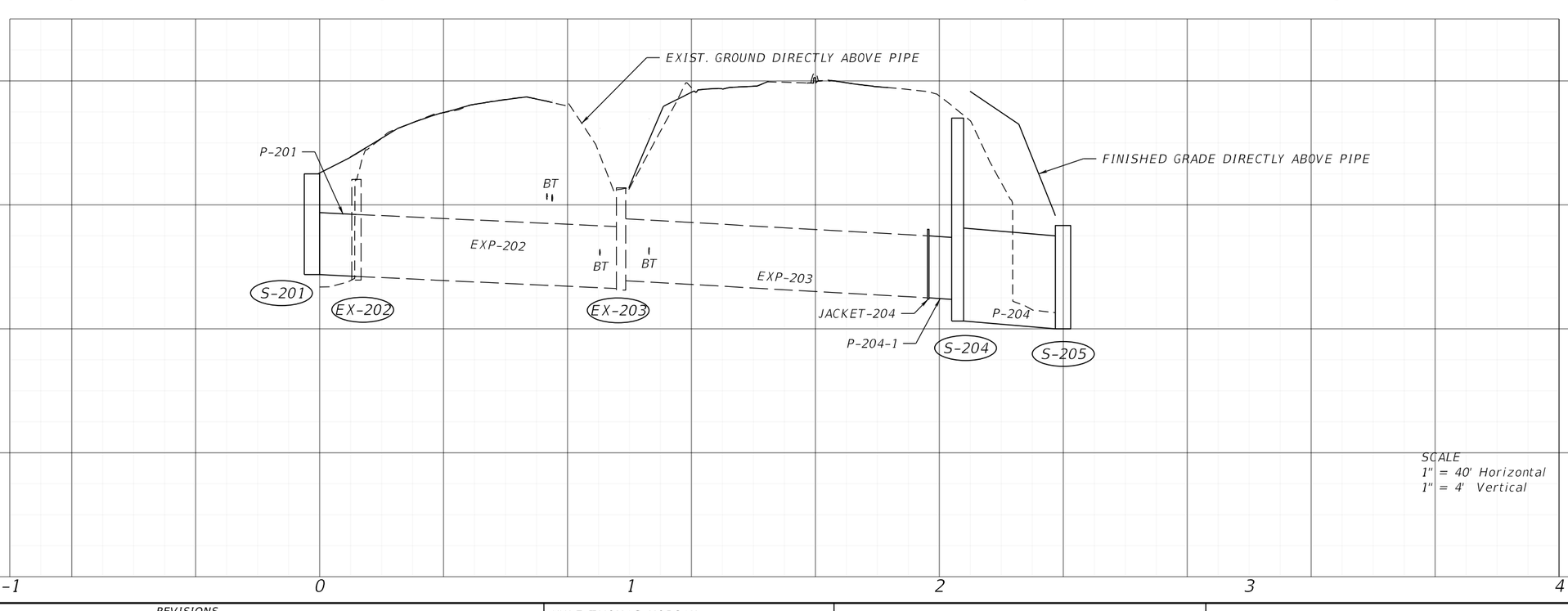

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

KYLE THOMAS MORGAN
LICENSE NUMBER: 98239
OSIRIS 9 CONSULTING, LLC
13241 BARTRAM PARK BLVD STE 1109
JACKSONVILLE, FL 32258

COLUMBIA CO BOCC

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 25	COLUMBIA	445725-5-54-02

DRAINAGE PROFILES

SHEET NO. 27

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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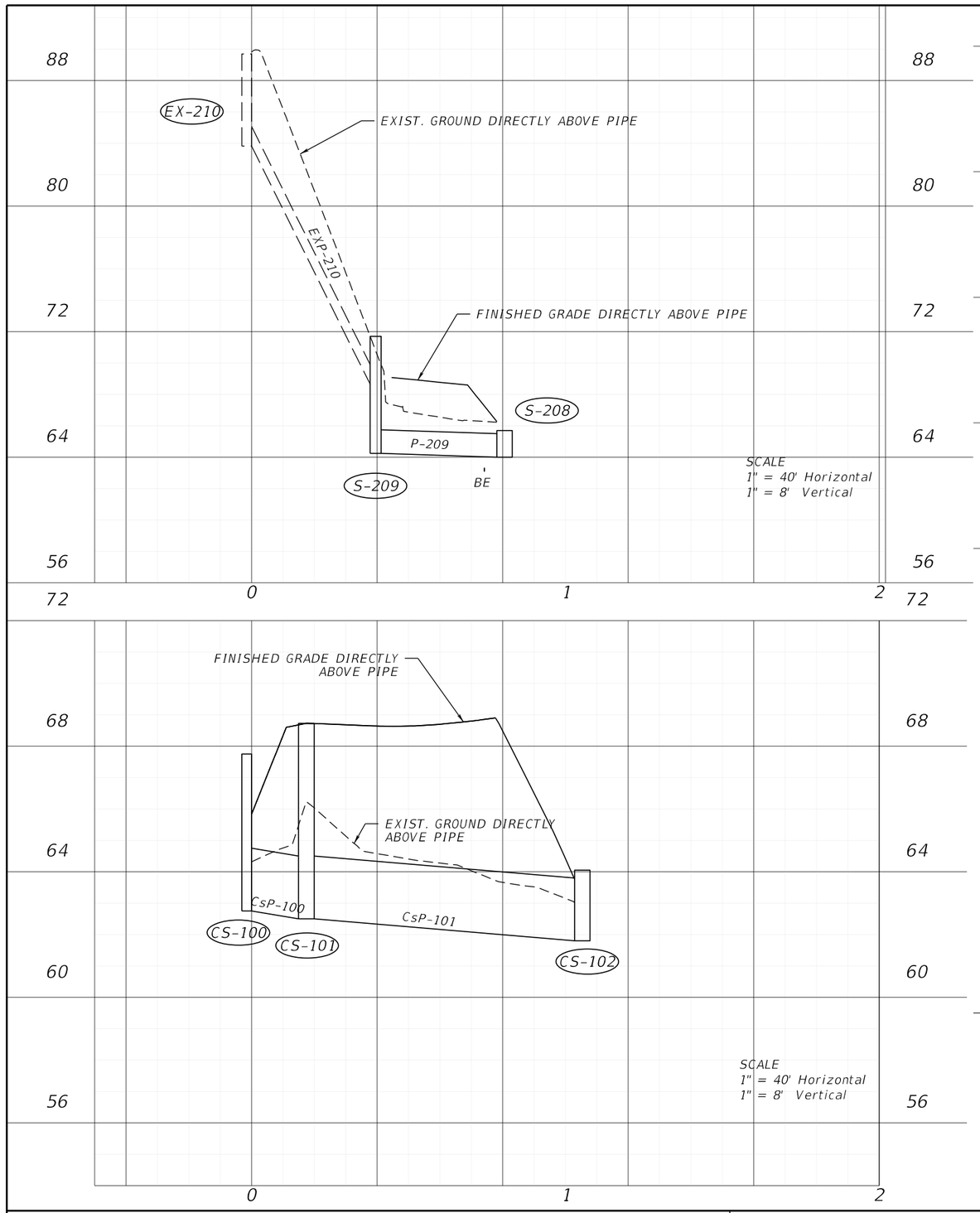

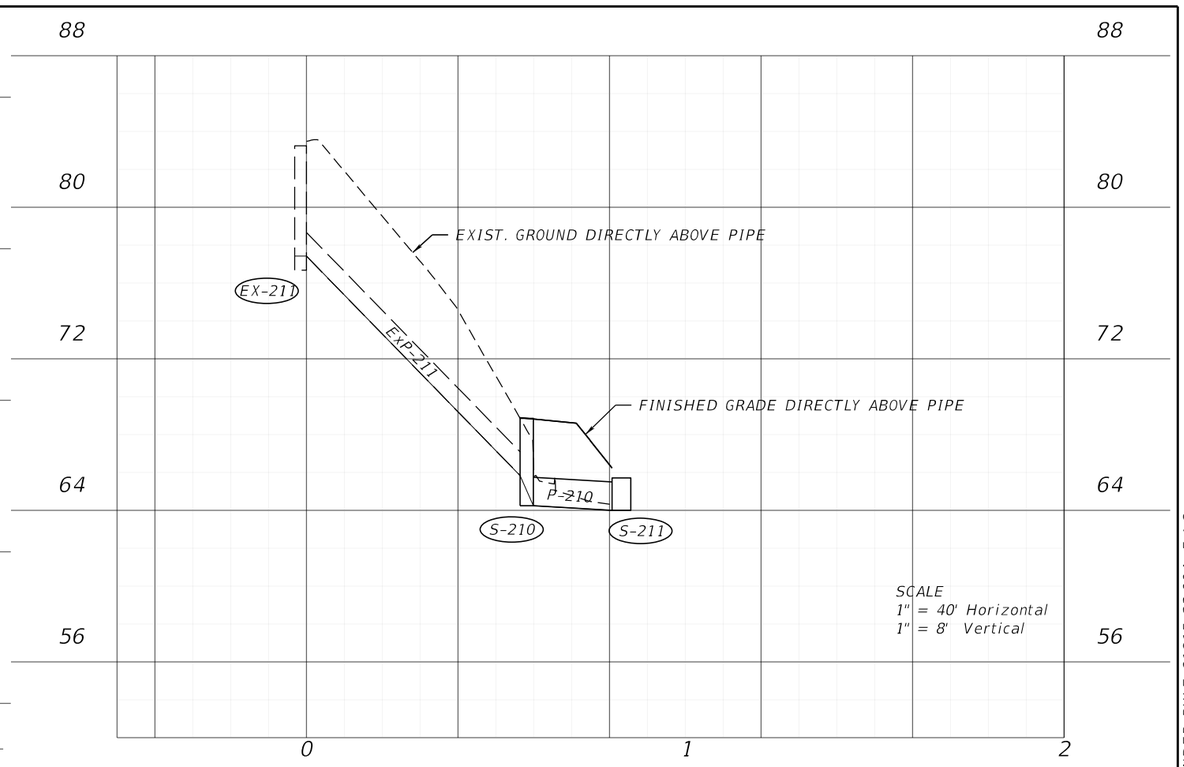

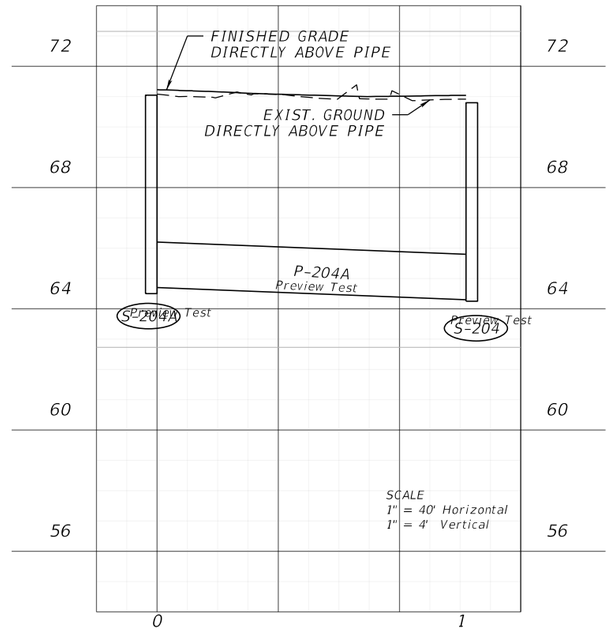

REVISIONS			
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LICENSE NUMBER: 98239
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13241 BARTRAM PARK BLVD STE 1109
JACKSONVILLE, FL 32258

COLUMBIA CO BOCC

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 25	COLUMBIA	445725-5-54-02

DRAINAGE PROFILES

SHEET NO. 28

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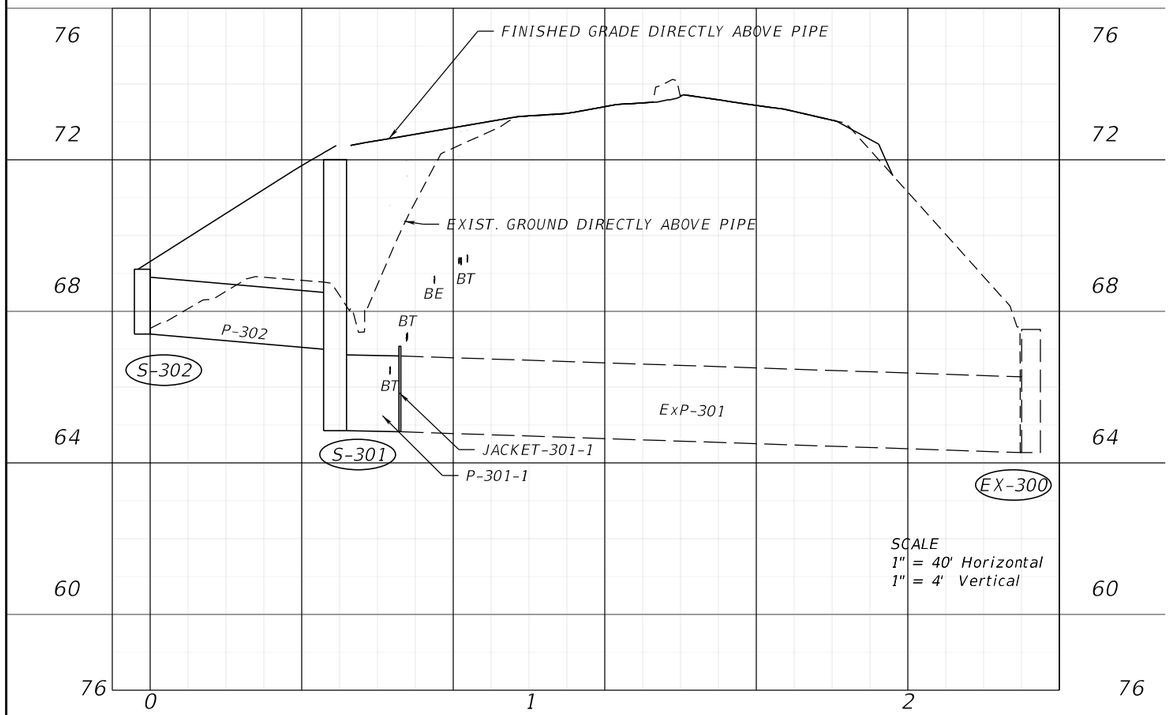

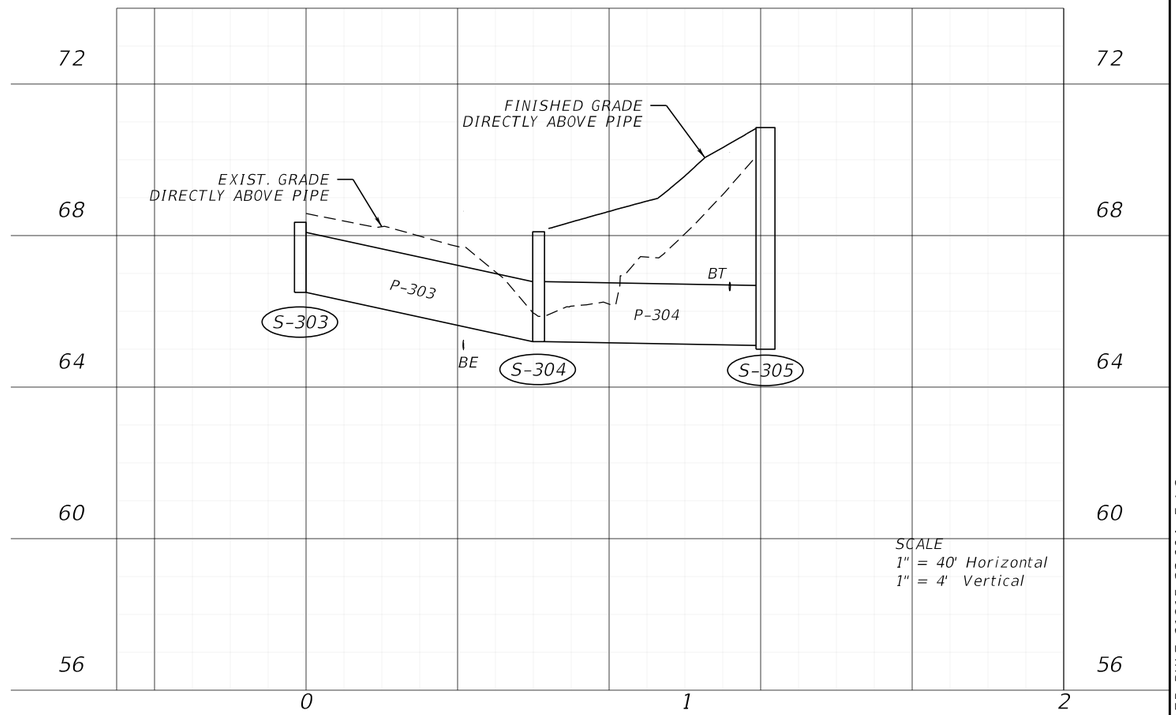

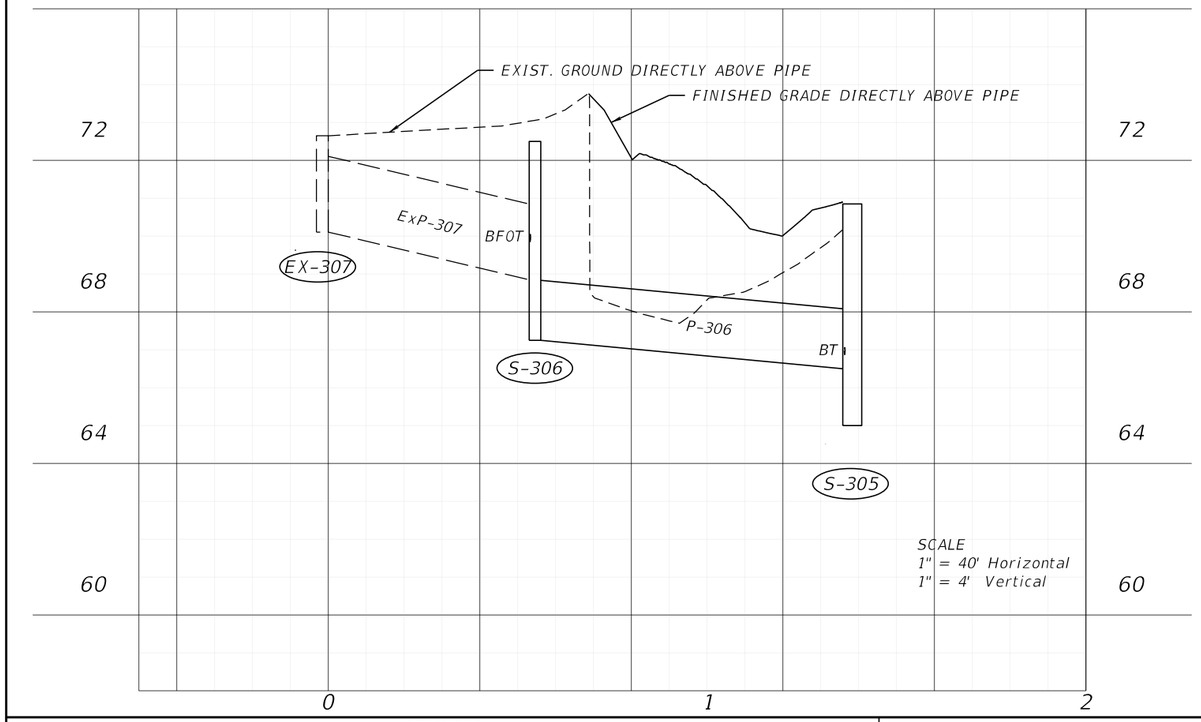

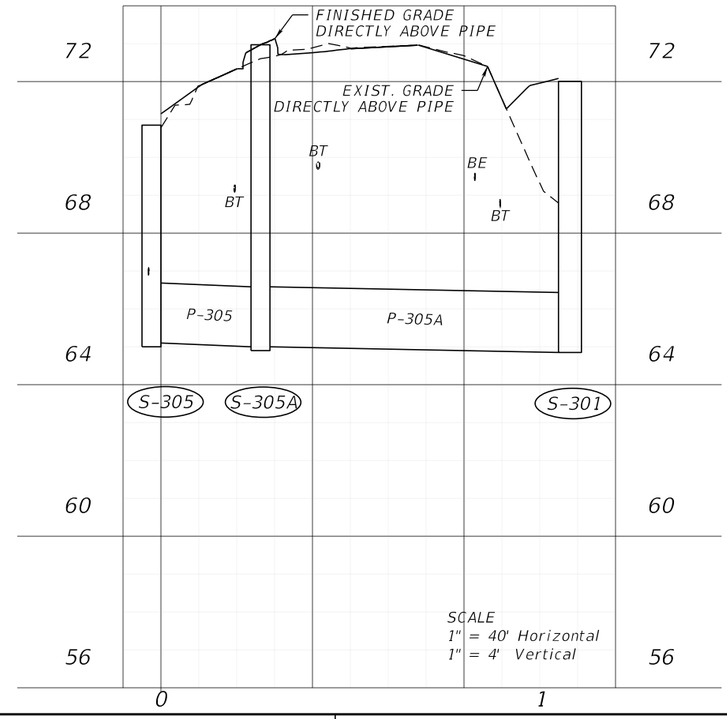

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KYLE THOMAS MORGAN
LICENSE NUMBER: 98239
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13241 BARTRAM PARK BLVD STE 1109
JACKSONVILLE, FL 32258

COLUMBIA CO BOCC

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 25	COLUMBIA	445725-5-54-02

DRAINAGE PROFILES

SHEET NO. 29

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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Endwall and MES Data						
Label	Baseline Feature	Baseline Station (ft)	Baseline Offset (ft)	Structure Type	Elevation (Invert) (ft)	FDOT Standard Plans (400 index series) Notes
CS-102	BL_CONST._SMF1	85+82	0.50	CD MES 1:4	61.80	
S-102	BL_SURVEY_US 41	523+68	35.00	SD MES 1:4	78.75	
S-105	BL_SURVEY_US 41	524+57	-78.75	CD MES 1:4	76.00	
S-107	BL_SURVEY_US 41	528+45	-91.02	SD MES 1:4	69.80	
S-108	BL_SURVEY_US 41	529+14	-94.80	SD MES 1:4	68.65	
S-201	BL_CONST_RAMP_D1	71+56	36.51	STRAIGHT CONC. ENDWALL	65.75	
S-205	BL_SURVEY_US 41	532+61	58.00	CD MES 1:4	64.00	
S-208	BL_CONST._SMF1	81+18	-155.38	CD MES 1:4	64.00	
S-211	BL_CONST._SMF1	84+73	-32.42	CD MES 1:4	64.00	
S-302	BL_CONST_RAMP_C	41+58	-38.50	CD MES 1:4	67.40	
S-303	BL_CONST_RAMP_C	42+35	53.00	19x30 MES 1:4	66.50	

Manhole Data									
Label	Baseline Feature	Baseline Station (ft)	Baseline Offset (ft)	Structure Type	Bottom Dimensions	FDOT Standard Plans (400 index series) Notes	Reference Point Elevation (ft)	Sump Elevation (Structure Invert) (ft)	-Pipe- Label
CS-101	BL_CONST._SMF1	85+04	-43.27	MANHOLE TYPE 8	5' DIA.	(2-PIECE COVER) W/ J BOTTOM	68.73		
									(In) CsP-100
									(Out) CsP-101
S-104	BL_SURVEY_US 41	524+33	-62.75	MANHOLE TYPE 7			80.25		
									(In) ExP-103
									(Out) P-104
S-209	BL_CONST._SMF1	81+28	-196.77	MANHOLE TYPE 8			71.70		
									(In) ExP-210
									(Out) P-209
S-210	BL_CONST._SMF1	84+80	-57.91	MANHOLE TYPE 7			68.86		
									(In) ExP-211
									(Out) P-210
S-301	BL_SURVEY_US 41	540+28	-104.75	MANHOLE TYPE 8	6' DIA.	(2-PIECE COVER) W/ J BOTTOM	72.38		
									(In) P-302
									(In) P-305A
									(Out) P-301-1
S-305	BL_CONST_RAMP_C	41+12	59.19	MANHOLE TYPE 7	5' DIA.	(2-PIECE COVER) W/ J BOTTOM	70.85		
									(In) P-306
									(In) P-304
									(Out) P-305
S-305A	BL_CONST_RAMP_C	40+94	36.76	MANHOLE TYPE 8	5' DIA.	(2-PIECE COVER) W/ J BOTTOM	72.97		
									(In) P-305
									(Out) P-305A

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

KYLE THOMAS MORGAN
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JACKSONVILLE, FL 32258

COLUMBIA CO BOCC

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 25	COLUMBIA	445725-5-54-02

DRAINAGE DETAILS

SHEET NO. 30

THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.

Structure Data										
Label	Baseline Feature	Baseline Station (ft)	Baseline Offset (ft)	Structure Type	Bottom Dimensions	FDOT Standard Plans (400 index series) Notes	Remarks	Reference Point Elevation (ft)	Sump Elevation (Structure Invert) (ft)	-Pipe- Label
CS-100	BL_CONST._SMF1	84+98	-25.23	DBI TYPE D				67.75		
										(Out) CsP-100
S-100	BL_SURVEY_US 41	522+10	34.50	DBI TYPE C		TRAVERSABLE SLOT (BK.)		82.00		
										(Out) P-100
S-101	BL_SURVEY_US 41	523+04	37.50	DBI TYPE F		CONCRETE APRON		82.00		
										(In) P-100
										(Out) P-101
S-204	BL_SURVEY_US 41	532+61	22.50	GUTTER INLET TYPE S	4' x 8'	J BOTTOM		70.80		
										(In) P-204-1
										(In) P-204A
										(Out) P-204
S-204A	BL_SURVEY_US 41	533+69	22.46	GUTTER INLET TYPE S				71.05		
										(Out) P-204A
S-304	BL_CONST_RAMP_C	41+71	51.50	DBI TYPE D		CONCRETE APRON		68.10		
										(In) P-303
										(Out) P-304
S-306	BL_SURVEY_US 41	542+16	-103.25	DBI TYPE D				72.50		
										(In) ExP-307
										(Out) P-306

Optional Material Tabulation					
Group Number	Size(s)	Material	Plotted	As Built	Remarks
Group 1	18, 24	NRCP			
		RCP	X		
		SRAP, 16 GA			
		SRASP, 14 GA			
		HDPE, CLASS II			
		PP, CLASS II			
		PVC, ASTM F-949			
Group 2	36	NRCP			
		RCP	X		
		SRAP, 16 GA			
		SRASP, 14 GA			
		HDPE, CLASS II			
		PP, CLASS II			
		PVC, ASTM F-949			
		SRPE, RIBBED			
Group 3	18, 24	RCP	X		

Pipe Data								
Label	Barrels	Length (Construction) (ft)	Size	Start Node (Upper)	Start Invert (ft)	Stop Node (Lower)	Stop Invert (ft)	Pipe Material
CsP-100	1	16	24 inch	CS-100	62.75	CS-101	62.50	Group 1
CsP-101	1	84	24 inch	CS-101	62.50	CS-102	61.80	Group 1
P-100	1	91	18 inch	S-100	79.17	S-101	78.93	Group 1
P-101	1	58	18 inch	S-101	78.93	S-102	78.75	Group 1
P-104	1	27	18 inch	S-104	76.25	S-105	76.00	Group 1
P-201	2	12	24 inch	S-201	65.75	EX-202	65.69	Group 3
P-204	1	30	36 inch	S-204	64.25	S-205	64.00	Group 2
P-204-1	2	8	24 inch	JACKET-204	65.00	S-204	64.95	Group 3
P-204A	1	103	18 inch	S-204A	64.70	S-204	64.30	Group 1
P-209	1	37	18 inch	S-209	64.25	S-208	64.00	Group 1
P-210	1	21	18 inch	S-210	64.25	S-211	64.00	Group 1
P-301-1	1	14	24 inch	S-301	64.85	JACKET-301-1	64.82	Group 3
P-302	1	46	18 inch	S-302	67.40	S-301	67.00	Group 1
P-303	1	60	19x30 inch	S-303	66.50	S-304	65.20	Group 1
P-304	1	57	19x30 inch	S-304	65.20	S-305	65.10	Group 1
P-305	1	24	19x30 inch	S-305	65.10	S-305A	65.00	Group 1
P-305A	1	76	19x30 inch	S-305A	65.00	S-301	64.85	Group 1
P-306	1	80	19x30 inch	S-306	67.25	S-305	66.50	Group 1

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

KYLE THOMAS MORGAN
LICENSE NUMBER: 98239
OSIRIS 9 CONSULTING, LLC
13241 BARTRAM PARK BLVD STE 1109
JACKSONVILLE, FL 32258

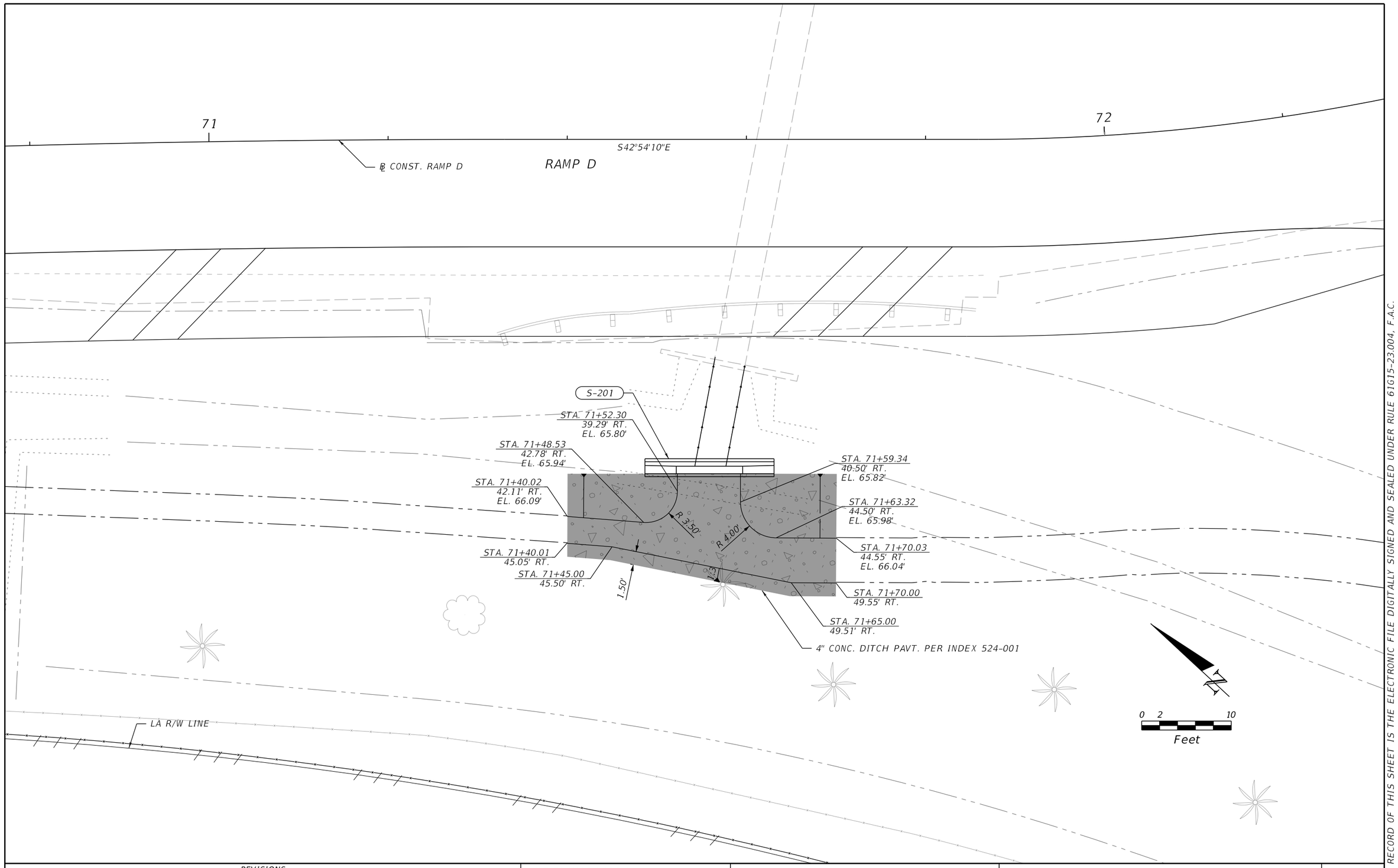
COLUMBIA CO BOCC

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 25	COLUMBIA	445725-5-54-02

DRAINAGE DETAILS

SHEET NO. 31

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

KYLE THOMAS MORGAN
LICENSE NUMBER: 98239
OSIRIS 9 CONSULTING, LLC
13241 BARTRAM PARK BLVD STE 1109
JACKSONVILLE, FL 32258

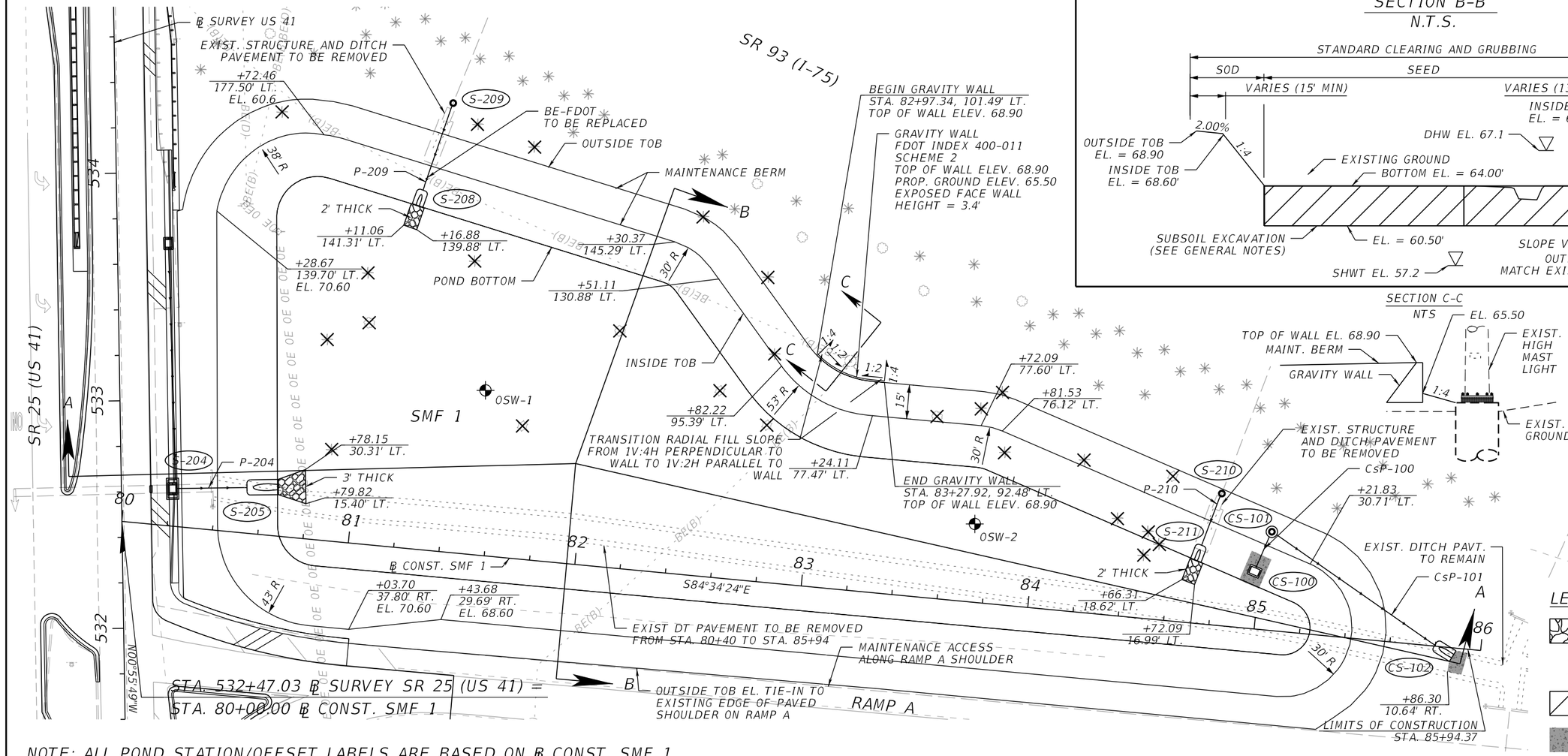
COLUMBIA CO BOCC

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 25	COLUMBIA	445725-5-54-02

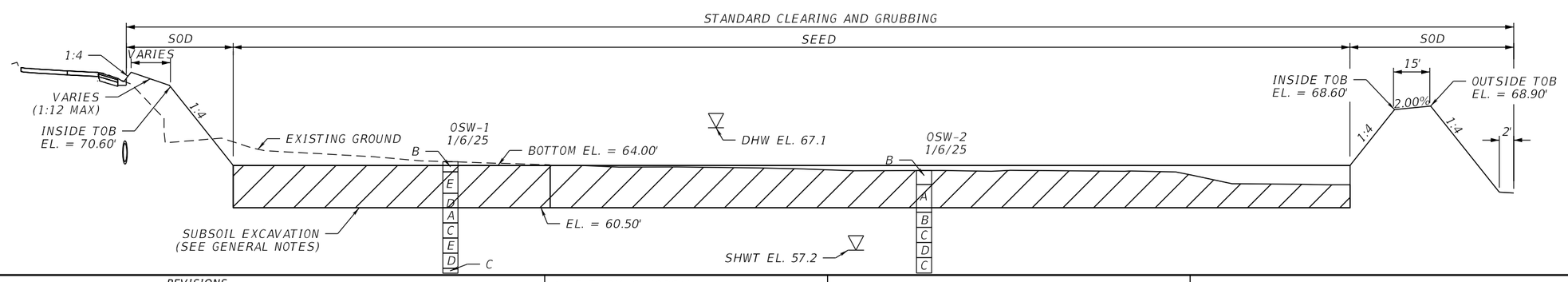
DRAINAGE DETAILS

SHEET NO. 32

THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.



NOTE: ALL POND STATION/OFFSET LABELS ARE BASED ON ℄ CONST. SMF 1



REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

KYLE THOMAS MORGAN
LICENSE NUMBER: 98239
OSIRIS 9 CONSULTING, LLC
13241 BARTRAM PARK BLVD STE 1109
JACKSONVILLE, FL 32258

COLUMBIA CO BOCC

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 25	COLUMBIA	445725-5-54-02

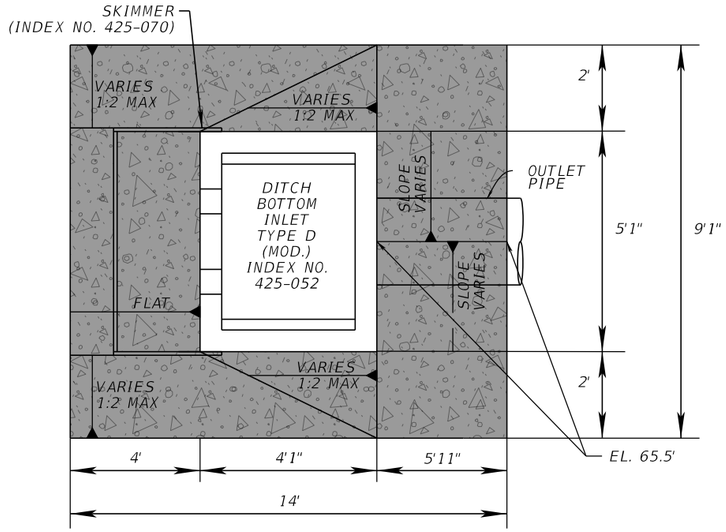
STORMWATER FACILITIES
SMF 1

SHEET NO. 33

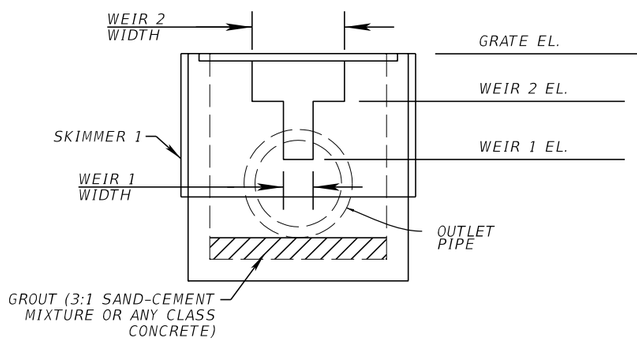
THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.

T:\WorkSets\Columbia County\44572515201\Drainage\PDPLRD-SHEET-03.dgn : POND C - PLAN 1 [SHEET]
kmorgan 8/29/2025 3:12:44 PM

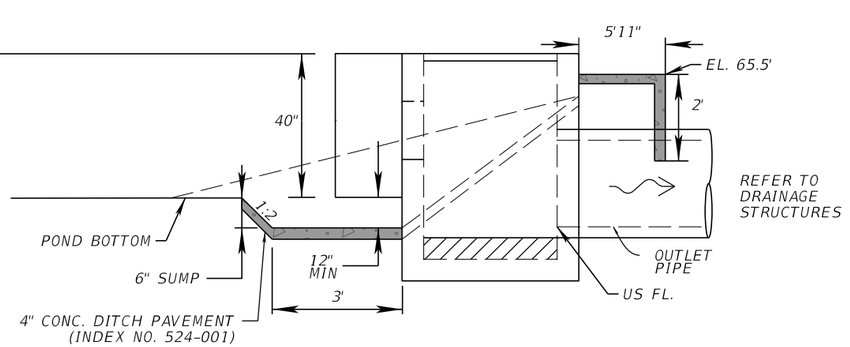
LOCATION	STRUCTURE NO.	GRATE EL.	INLET TYPE	WEIR					SKIMMER 1 HEIGHT (IN)	OUTLET PIPE			
				#	SHAPE	EL. (FT)	WIDTH (IN)	DEPTH (IN)		DIA. (IN)	LENGTH (FT)	US FL. (FT)	DS FL. (FT)
SMF 1	CS-100	67.75	TYPE D (MOD)	1	RECT.	64.75	8	15	40	24	16	62.75	62.50
				2	RECT.	66.00	17	21					



PLAN VIEW
NTS



FRONT VIEW
NTS



SECTION VIEW
NTS

CONTROL STRUCTURE DETAIL

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

KYLE THOMAS MORGAN
LICENSE NUMBER: 98239
OSIRIS 9 CONSULTING, LLC
13241 BARTRAM PARK BLVD STE 1109
JACKSONVILLE, FL 32258

COLUMBIA CO BOCC

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 25	COLUMBIA	445725-5-54-02

STORMWATER FACILITIES
CONTROL STRUCTURE

SHEET NO.
34

THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.

DATE OF SURVEY: JANUARY 2025
SURVEY MADE BY: ENVIRONMENTAL AND GEOTECHNICAL SPECIALISTS, INC.
SUBMITTED BY: MATTHEW R. LANDSCHOOT

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION
MATERIALS AND RESEARCH

DISTRICT: TWO
ROAD NO.: SR 25 (US 41)
COUNTY: COLUMBIA

PROJECT NAME: SR 25 (US 41) ROADWAY IMPROVEMENTS

FINANCIAL PROJECT ID: 445725-5-54-02

CROSS SECTION SOIL SURVEY FOR THE DESIGN OF ROADS

SURVEY BEGINS STA.: 519+72 SURVEY ENDS STA.: 543+78

REFERENCE: Ø SURVEY US 41

	ORGANIC CONTENT		MOISTURE CONTENT		SIEVE ANALYSIS RESULTS % PASS						ATTERBERG LIMITS (%)					
STRATUM NO.	NO. OF TESTS	% ORGANIC	NO. OF TESTS	% MOISTURE	NO. OF TESTS	10 MESH	40 MESH	60 MESH	100 MESH	200 MESH	NO. OF TESTS	LIQUID LIMIT	PLASTIC INDEX	AASHTO GROUP	COLOR	DESCRIPTION
1	3	0.9-2.0	29	3-17	7	98-100	93-97	76-81	30-42	8-10	--	--	--	A-3	GRAY	FINE SAND
2	23	0.3-2.0	90	1-21	22	84-100	76-100	62-88	37-82	12-19	--	--	--	A-2-4	GRAY, ORANGE	SILTY FINE SAND (<20% PASING NO. 200)
3	3	1.1-1.6	22	4-33	8	89-100	77-100	68-100	45-82	20-35	--	--	--	A-2-4	GRAY, ORANGE	SILTY FINE SAND (>20% PASSING NO. 200)
4	--	--	185	10-83	42	98-100	89-100	69-98	34-89	20-64	29	26-49	12-34	A-2-6,A-2-7, A-6,A-7-6	BROWN, GRAY, ORANGE	CLAYEY FINE SAND, CLAYEY SAND, PLASTIC CLAYEY FINE SAND, PLASTIC CLAYEY SAND
5	--	--	29	18-41	6	100	99-100	91-99	52-86	30-58	7	53-100	32-92	A-2-7, A-7-6	GRAY, ORANGE	HIGHLY PLASTIC CLAYEY SAND HIGHLY PLASTIC CLAYEY FINE SAND, HIGHLY PLASTIC SANDY CLAY
6	11	2.5-4.7	11	3-35	--	--	--	--	--	--	--	--	--	A-3, A-2-4	DARK GRAY	FINE SAND WITH ORGANICS, SILTY FINE SAND WITH ORGANICS
7	7	5.0-17.1	7	5-23	1	81	71	63	45	22	--	--	--	A-2-4	DARK GRAY	ORGANIC SILTY FINE SAND
A	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	ASPHALT
LR	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	LIMEROCK BASE

CORROSION TEST RESULTS

NO. OF TESTS	RESISTIVITY ohms-cm	CHLORIDE ppm	SULFATES ppm	pH
--	--	--	--	--
4	2,900-8,200	<1-93	15-30	6.8-7.2
--	--	--	--	--
1	3,400	9	15	7.1
--	--	--	--	--
--	--	--	--	--
--	--	--	--	--
--	--	--	--	--
--	--	--	--	--

EMBANKMENT AND SUBGRADE MATERIAL

STRATA BOUNDARIES ARE APPROXIMATE. MAKE FINAL CHECK AFTER GRADING.

▽ - ESTIMATED SEASONAL HIGH GROUNDWATER LEVEL

GNE - GROUNDWATER NOT ENCOUNTERED

STRATUM NOTES

1. STRATA 1, 2, AND 3 ARE "SELECT" SOILS. DUE TO THE HIGH FINES CONTENT, STRATUM 3 WILL RETAIN MOISTURE AND MAY BE DIFFICULT TO COMPACT WHEN WET.
2. STRATUM 4 IS A "PLASTIC" SOIL WITH AN AVERAGE LIQUID LIMIT LESS THAN 50.
3. STRATUM 5 IS A "HIGHLY PLASTIC" SOIL WITH AN AVERAGE LIQUID LIMIT GREATER THAN 50.
4. STRATUM 6 IS A "SELECT" SOIL WITH AN AVERAGE ORGANIC CONTENT GREATER THAN 2.5 PERCENT, BUT NO INDIVIDUAL VALUE GREATER THAN 5.0 PERCENT.
5. STRATUM 7 IS AN "ORGANIC" SOIL WITH AN AVERAGE ORGANIC CONTENT GREATER THAN 5.0 PERCENT, BUT NO INDIVIDUAL VALUE GREATER THAN 20.0 PERCENT.
6. STRATUM A IS ASPHALT BASE.
7. STRATUM LR IS LIMEROCK BASE.
8. REUSE OF THESE STRATA SHALL BE IN ACCORDANCE WITH FDOT STANDARD PLANS INDEX 120-001.
9. REMOVAL OF THESE STRATA SHALL BE IN ACCORDANCE WITH FDOT STANDARD PLANS INDEX 120-002.

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

MATTHEW R. LANDSCHOOT, P.E
LICENSE NUMBER: 76183
ENVIORMENTAL AND GEOTECHNICAL SPECIALISTS, INC.
3772 KORI ROAD
JACKSONVILLE, FLORIDA 32257

COLUMBIA CO BOCC

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 25	COLUMBIA	445725-5-54-02

ROADWAY SOIL SURVEY

SHEET NO. 35

DATE OF SURVEY: JANUARY 2025
SURVEY MADE BY: ENVIRONMENTAL AND GEOTECHNICAL SPECIALISTS, INC.
SUBMITTED BY: MATTHEW R. LANDSCHOOT

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION
MATERIALS AND RESEARCH

DISTRICT: TWO
ROAD NO.: SR 25 (US 41)
COUNTY: COLUMBIA

PROJECT NAME: US 41 STORMWATER MANAGEMENT FACILITY

FINANCIAL PROJECT ID: 445725-5-54-02

CROSS SECTION SOIL SURVEY FOR THE DESIGN OF STORMWATER FACILITIES

SURVEY BEGINS STA.: 531+64 SURVEY ENDS STA.: 534+00

REFERENCE: Ø SURVEY US 41

	ORGANIC CONTENT		MOISTURE CONTENT		SIEVE ANALYSIS RESULTS % PASS						ATTERBERG LIMITS (%)					
STRATUM NO.	NO. OF TESTS	% ORGANIC	NO. OF TESTS	% MOISTURE	NO. OF TESTS	10 MESH	40 MESH	60 MESH	100 MESH	200 MESH	NO. OF TESTS	LIQUID LIMIT	PLASTIC INDEX	AASHTO GROUP	COLOR	DESCRIPTION
A	--	--	6	2-6	1	100	95	79	39	10	--	--	--	A-3	GRAY	FINE SAND
B	--	--	4	5-15	1	100	96	84	47	13	--	--	--	A-2-4	GRAY	SILTY FINE SAND (<20% PASSING NO. 200)
C	--	--	12	13-36	3	99-100	96-99	84-89	41-56	22-28	2	31-39	18-21	A-2-6	GRAY, ORANGE	CLAYEY FINE SAND
D	--	--	9	23-31	2	100	98-99	86-89	48-63	36-40	1	49	29	A-6, A-7-6	GRAY, ORANGE	CLAYEY SAND, PLASTIC CLAYEY SAND
E	--	--	5	28-77	2	83-100	75-97	72-85	63-64	53-54	2	55-91	42-61	A-7-6	GRAY, ORANGE	HIGHLY PLASTIC SANDY CLAY

EMBANKMENT AND SUBGRADE MATERIAL

STRATA BOUNDARIES ARE APPROXIMATE. MAKE FINAL CHECK AFTER GRADING.

▼ - WATER TABLE ENCOUNTERED

▽ - ESTIMATED SEASONAL HIGH GROUNDWATER LEVEL

STRATUM NOTES

1. STRATA BOUNDARIES ARE APPROXIMATE AND REPRESENT SOIL STRATA AT EACH BORING ONLY. ANY SUBSOIL CONNECTING LINES ARE FOR ESTIMATING ONLY AND DO NOT INDICATE ACTUAL STRATUM LIMITS. SUBSURFACE VARIATIONS BETWEEN BORINGS SHOULD BE ANTICIPATED.
2. STRATA A AND B ARE "SELECT" SOILS.
3. STRATA C AND D ARE "PLASTIC" SOILS WITH AN AVERAGE LIQUID LIMIT LESS THAN 50.
4. STRATUM E IS A "HIGHLY PLASTIC" SOIL WITH AN AVERAGE LIQUID LIMIT GREATER THAN 50.
5. REUSE OF THESE STRATA SHALL BE IN ACCORDANCE WITH FDOT STANDARD PLANS INDEX 120-001.
6. REMOVAL OF THESE STRATA SHALL BE IN ACCORDANCE WITH FDOT STANDARD PLANS INDEX 120-002.

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

MATTHEW R. LANDSCHOOT, P.E
LICENSE NUMBER: 76183
ENVIORMENTAL AND GEOTECHNICAL SPECIALISTS, INC.
3772 KORI ROAD
JACKSONVILLE, FLORIDA 32257

COLUMBIA CO BOCC

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 25	COLUMBIA	445725-5-54-02

STORMWATER SOIL SURVEY

SHEET NO. 36

NOTES

1. NUMBERS LEFT OF BORINGS INDICATE STANDARD PENETRATION TEST (SPT) N-VALUES OR EQUIVALENT FOR 12-INCH PENETRATION.
2. GROUNDWATER ELEVATIONS SHOWN ARE THE GROUNDWATER ELEVATIONS ENCOUNTERED. FLUCTUATIONS IN THE ELEVATION OF GROUNDWATER SHOULD BE EXPECTED.
3. SOIL DESCRIPTIONS, TEST DATA, AND STANDARD PENETRATION VALUES SHOWN ARE FOR THE SOIL BORING ONLY AND MAY NOT APPLY TO ANY OTHER LOCATIONS EXCEPT AT THE LOCATION OF THE SOIL BORING. EXTRAPOLATION OF THE SOIL BORING DATA TO OTHER LOCATIONS IS THE SOLE RESPONSIBILITY OF THE PERSON PERFORMING THE EXTRAPOLATION.
4. ASTERISK INDICATES EQUIVALENT SPT N-VALUES CONVERTED FROM CONE PENETROMETER INDEX (CPI) VALUES.
5. LETTERS IN THE CENTER OF BORINGS INDICATE THE STRATUM. MATERIAL PROPERTIES OF EACH SOIL STRATUM ARE PROVIDED IN THE STORMWATER SOIL SURVEY.

AUTOMATIC HAMMER

GRANULAR MATERIALS RELATIVE DENSITY	SPT (BLOWS/12 IN.)	SILTS AND CLAYS CONSISTENCY	SPT (BLOWS/12 IN.)
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

SPLIT-SPOON: INSIDE DIAMETER: 1.375 IN
OUTSIDE DIAMETER: 2.0 IN
AVG. HAMMER DROP: 30.0 IN
HAMMER WEIGHT: 140 LBS

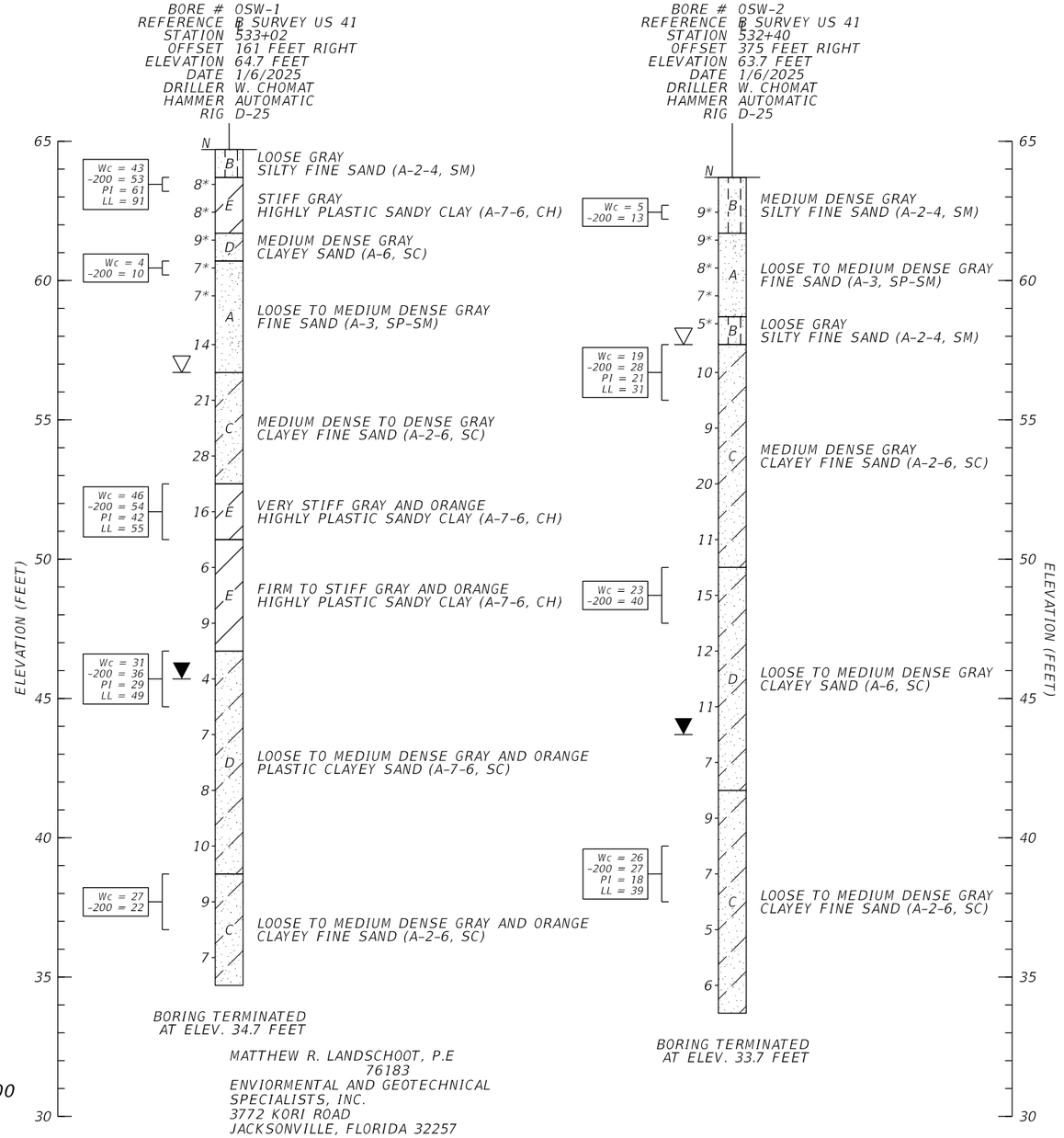
LEGEND

- SPT SOIL BORING LOCATION
- MEASURED GROUNDWATER LEVEL
- ESTIMATED "NORMAL" SEASONAL HIGH GROUNDWATER
- LABORATORY TESTING RESULTS
  - WATER CONTENT Wc=
  - -200 SIEVE -200=
  - PLASTICITY INDEX PI=
  - LIQUID LIMIT LL=
- FINE SAND (A-3, SP-SM)
- SILTY FINE SAND (A-2-4, SM)
- CLAYEY FINE SAND (A-2-6, SC) TO PLASTIC CLAYEY SAND (A-7-6, SC)
- HIGHLY PLASTIC SANDY CLAY (A-7-6, CH)
- (A-2-4) AASHTO CLASSIFICATION GROUP SYMBOL
- (SM) USCS GROUP SYMBOL

SOIL BORING LOCATION MAP

ENVIRONMENTAL CLASSIFICATION

SUBSTRUCTURE: MODERATELY AGGRESSIVE FOR STEEL AND CONCRETE (RESISTIVITY=2,900 OHM-CM)



REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

MATTHEW R. LANDSCHOOT, P.E
LICENSE NUMBER: 76183
ENVIORMENTAL AND GEOTECHNICAL SPECIALISTS, INC.
3772 KORI ROAD
JACKSONVILLE, FLORIDA 32257

COLUMBIA CO BOCC		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 25	COLUMBIA	445725-5-54-02

REPORT OF STORMWATER BORINGS

SHEET NO. 37

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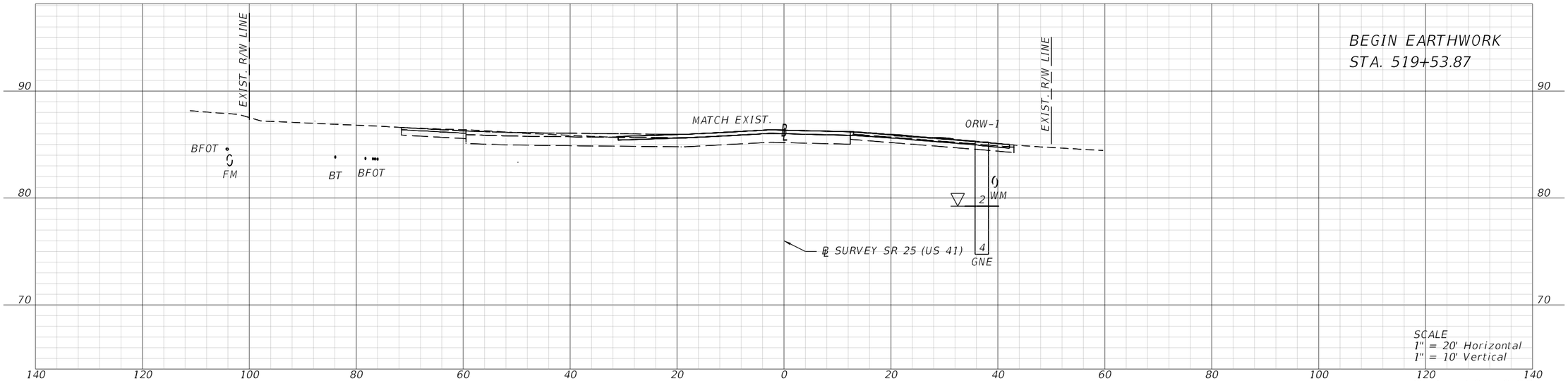

BEGIN EARTHWORK
STA. 519+53.87

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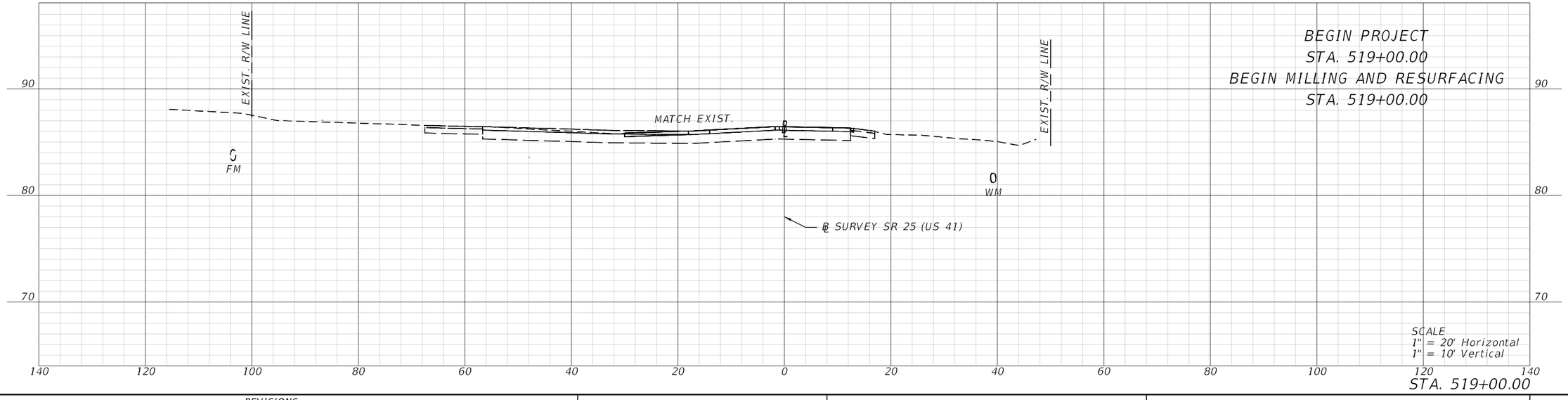
1" = 10' Vertical

STA. 519+50.00



BEGIN PROJECT
STA. 519+00.00
BEGIN MILLING AND RESURFACING
STA. 519+00.00

SCALE
1" = 20' Horizontal
1" = 10' Vertical

STA. 519+00.00

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

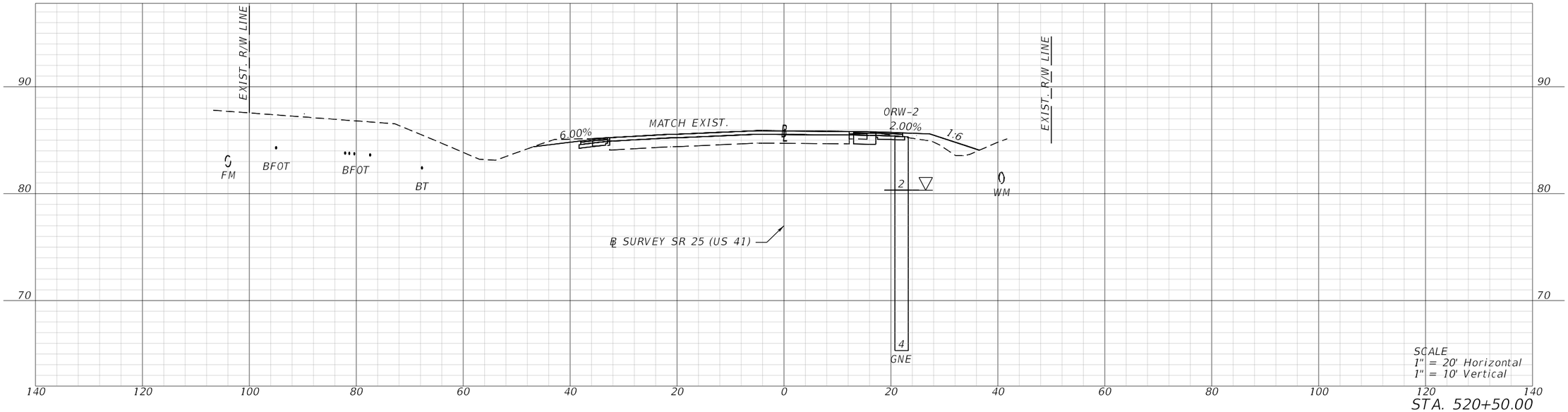
BRYON S. WUCZYNSKI, P.E.
LICENSE NUMBER: 64090
OSIRIS 9 CONSULTING, LLC
13241 BARTRAM PARK BLVD STE 1109
JACKSONVILLE, FL 32258

COLUMBIA CO BOCC		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 25	COLUMBIA	445725-5-54-02

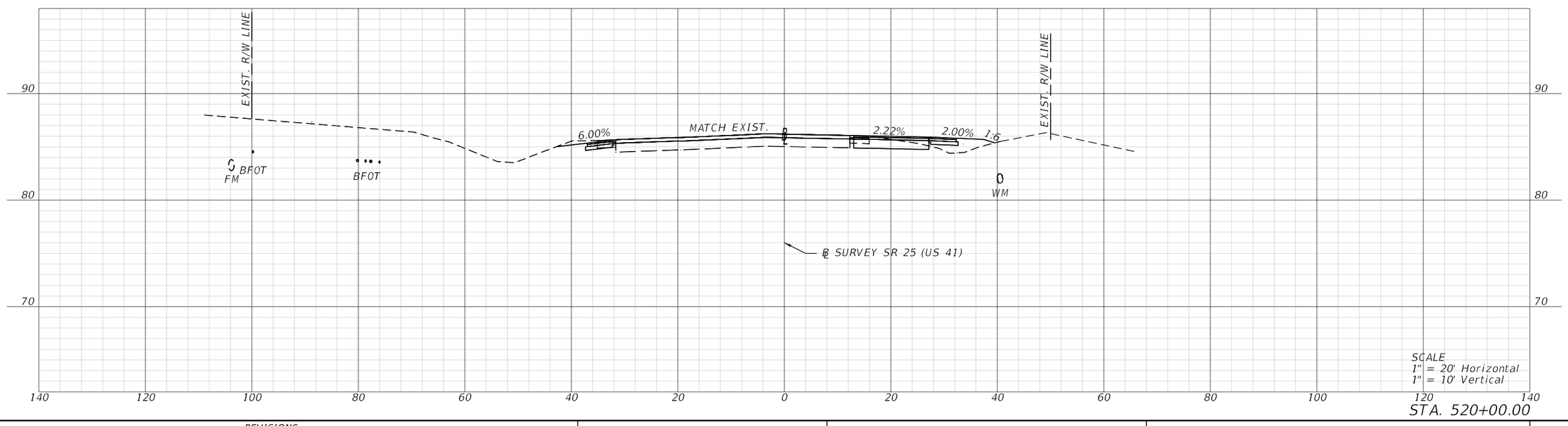
CROSS SECTIONS

SHEET NO. 38

THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.



STA. 520+50.00



STA. 520+00.00

REVISIONS			
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BRYON S. WUCZYNSKI, P.E.
LICENSE NUMBER: 64090
OSIRIS 9 CONSULTING, LLC
13241 BARTRAM PARK BLVD STE 1109
JACKSONVILLE, FL 32258

COLUMBIA CO BOCC

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 25	COLUMBIA	445725-5-54-02

CROSS SECTIONS

SHEET NO. 39

THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.

T:\WorkSets\Columbia County\44572515201\Roadway\RDXSRD01.dgn : BL_SURVEY_US 41 - 520+00.00 [SHEET]
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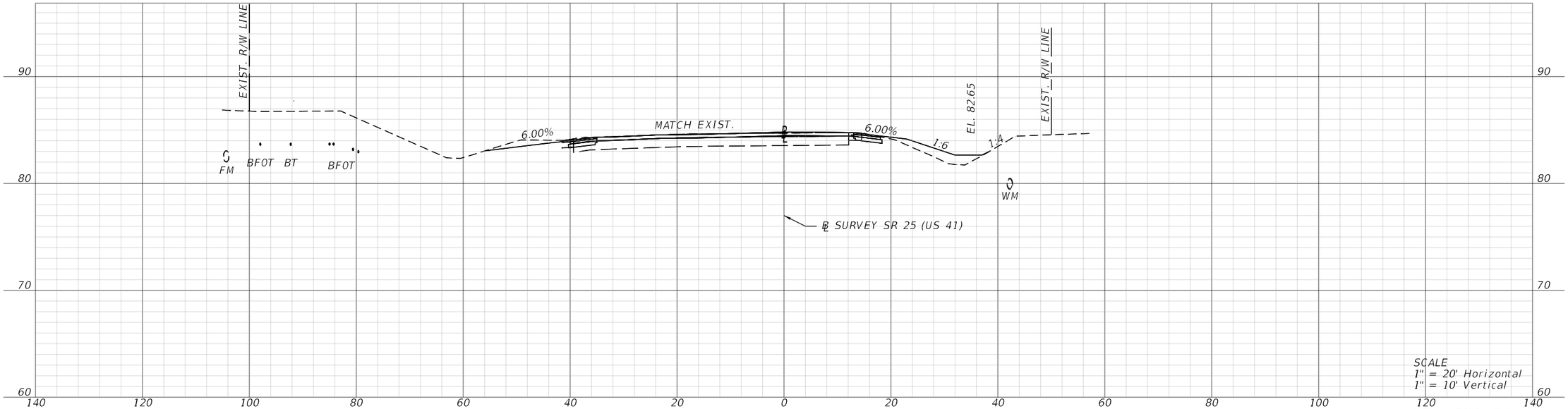

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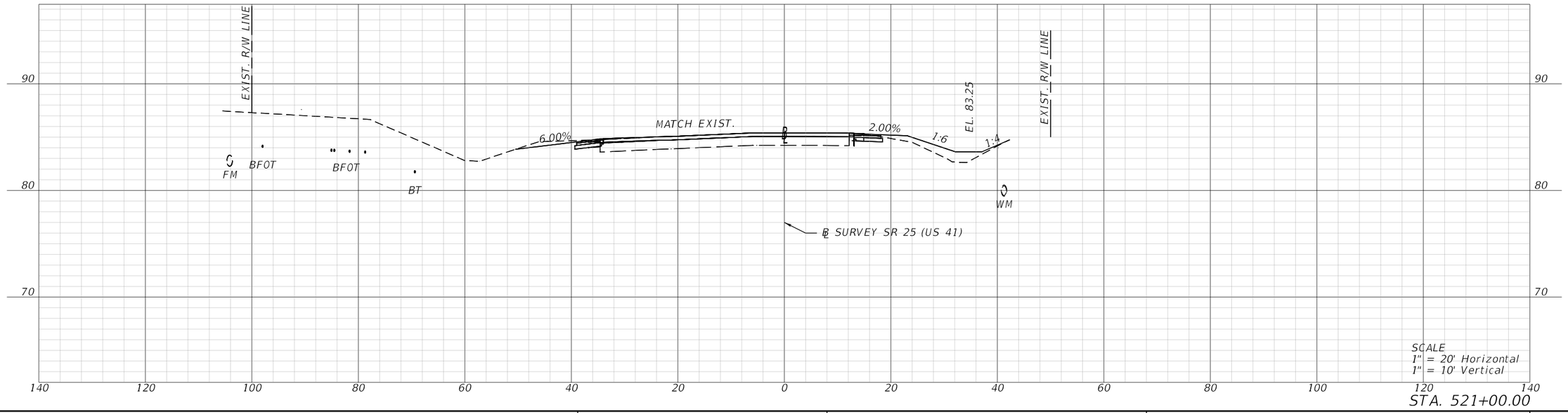

STA. 521+00.00

REVISIONS			
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BRYON S. WUCZYNSKI, P.E.
LICENSE NUMBER: 64090
OSIRIS 9 CONSULTING, LLC
13241 BARTRAM PARK BLVD STE 1109
JACKSONVILLE, FL 32258

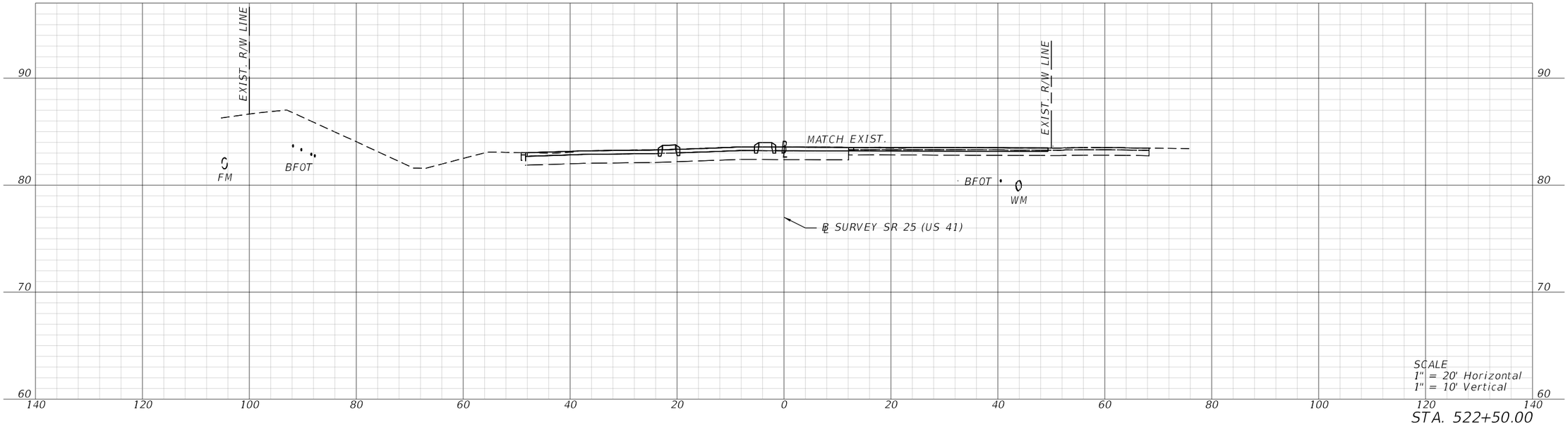
COLUMBIA CO BOCC

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 25	COLUMBIA	445725-5-54-02

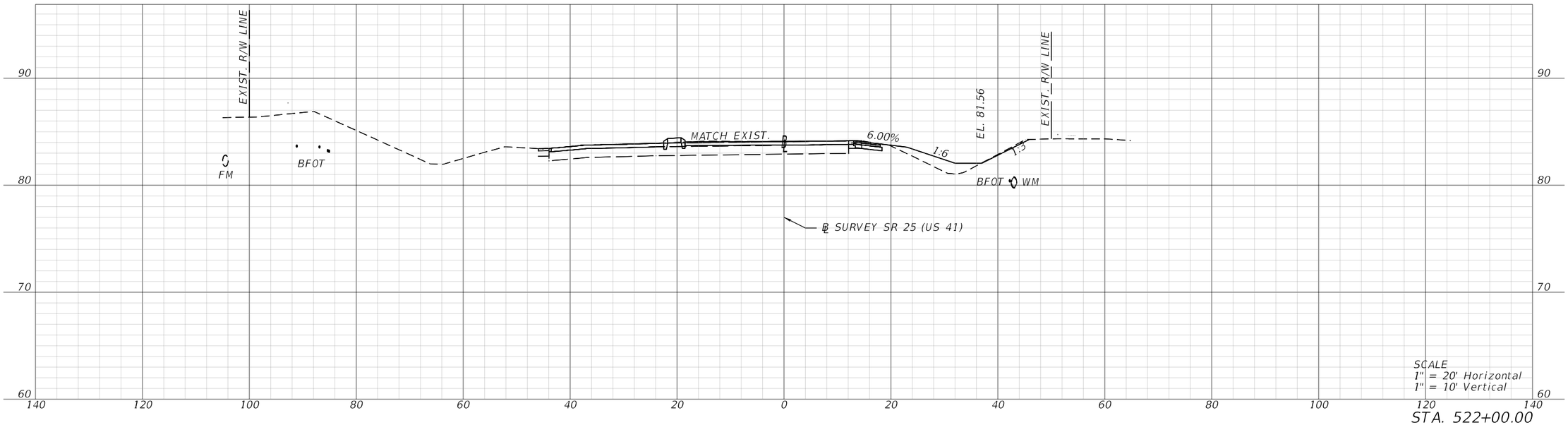
CROSS SECTIONS

SHEET NO. 40

THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.



STA. 522+50.00



STA. 522+00.00

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

BRYON S. WUCZYNSKI, P.E.
LICENSE NUMBER: 64090
OSIRIS 9 CONSULTING, LLC
13241 BARTRAM PARK BLVD STE 1109
JACKSONVILLE, FL 32258

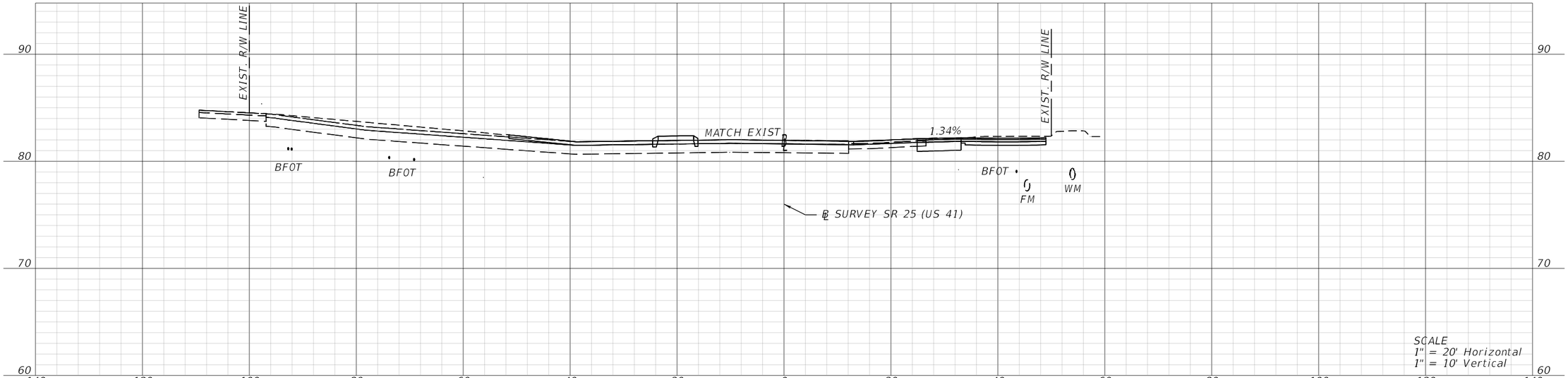
COLUMBIA CO BOCC

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 25	COLUMBIA	445725-5-54-02

CROSS SECTIONS

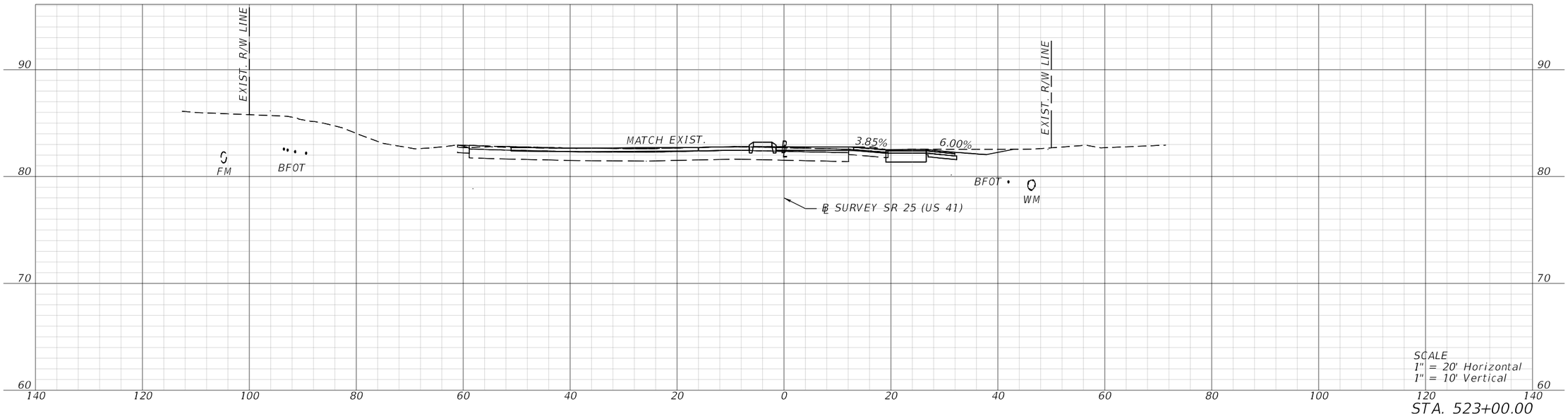
SHEET NO. 41

THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.



SCALE
1" = 20' Horizontal
1" = 10' Vertical

STA. 523+50.00



SCALE
1" = 20' Horizontal
1" = 10' Vertical

STA. 523+00.00

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

BRYON S. WUCZYNSKI, P.E.
LICENSE NUMBER: 64090
OSIRIS 9 CONSULTING, LLC
13241 BARTRAM PARK BLVD STE 1109
JACKSONVILLE, FL 32258

COLUMBIA CO BOCC

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 25	COLUMBIA	445725-5-54-02

CROSS SECTIONS

SHEET NO. 42

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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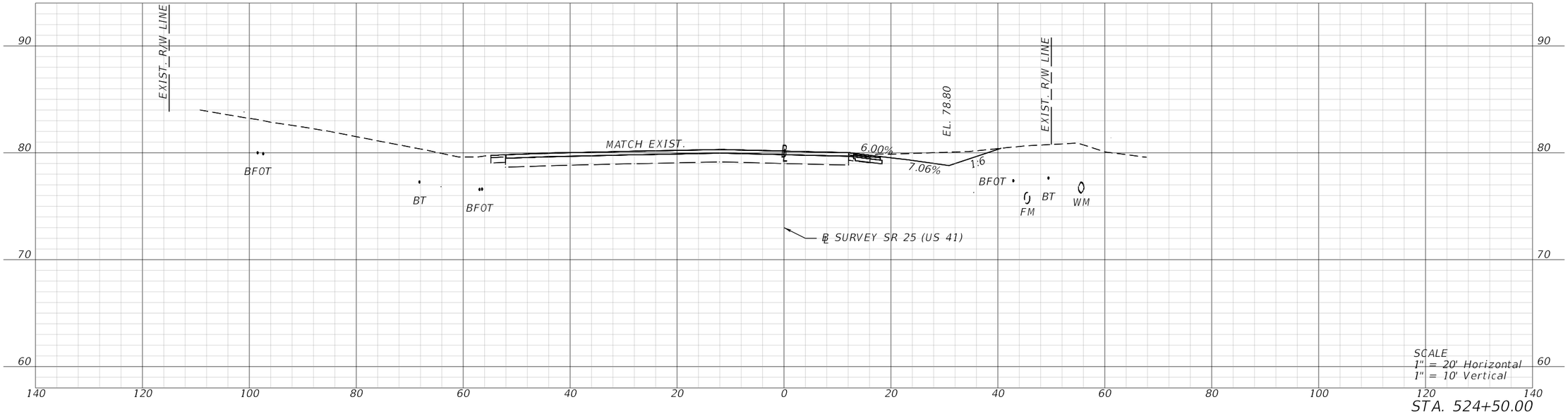

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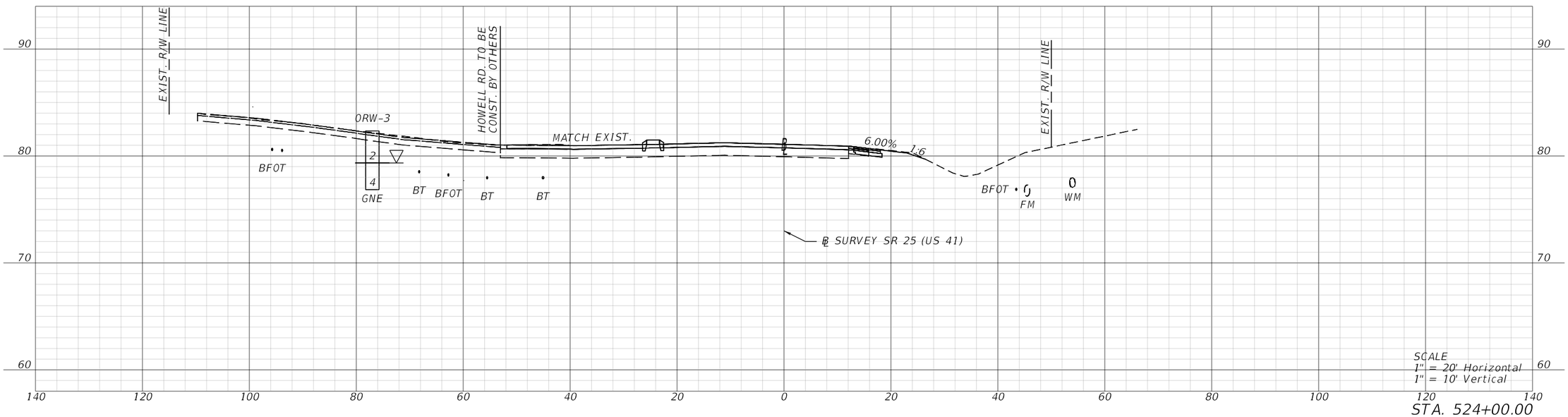

STA. 524+00.00

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

BRYON S. WUCZYNSKI, P.E.
LICENSE NUMBER: 64090
OSIRIS 9 CONSULTING, LLC
13241 BARTRAM PARK BLVD STE 1109
JACKSONVILLE, FL 32258

COLUMBIA CO BOCC

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 25	COLUMBIA	445725-5-54-02

CROSS SECTIONS

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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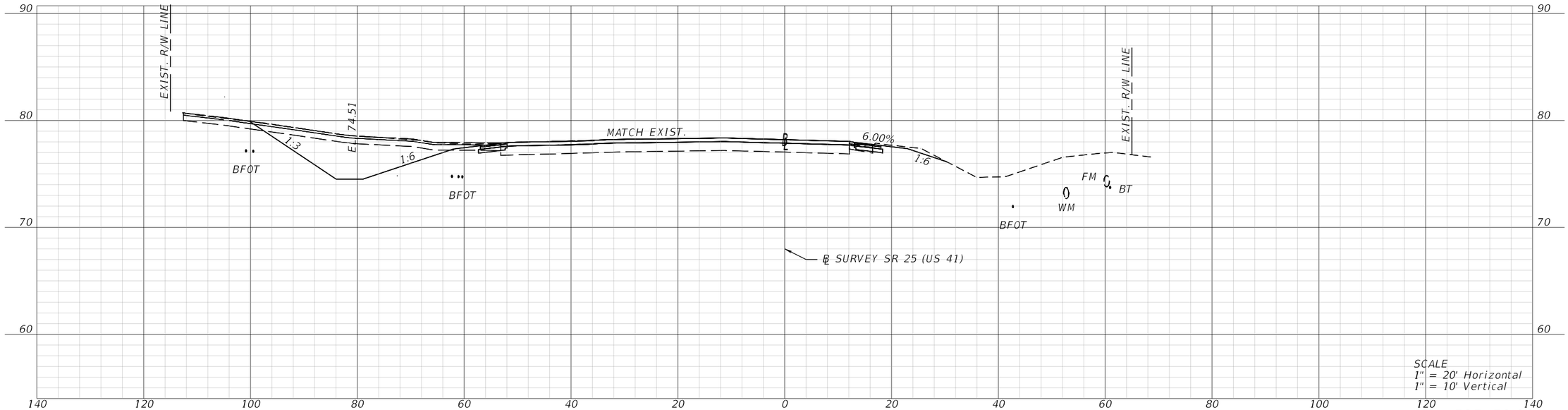

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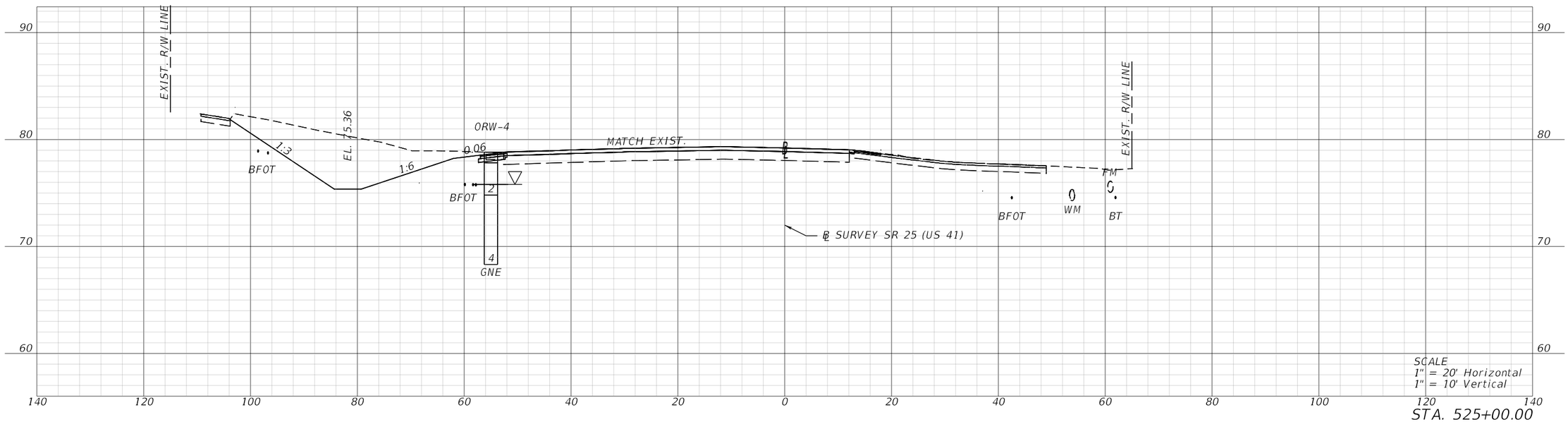

STA. 525+00.00

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

BRYON S. WUCZYNSKI, P.E.
LICENSE NUMBER: 64090
OSIRIS 9 CONSULTING, LLC
13241 BARTRAM PARK BLVD STE 1109
JACKSONVILLE, FL 32258

COLUMBIA CO BOCC

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 25	COLUMBIA	445725-5-54-02

CROSS SECTIONS

SHEET NO. 44

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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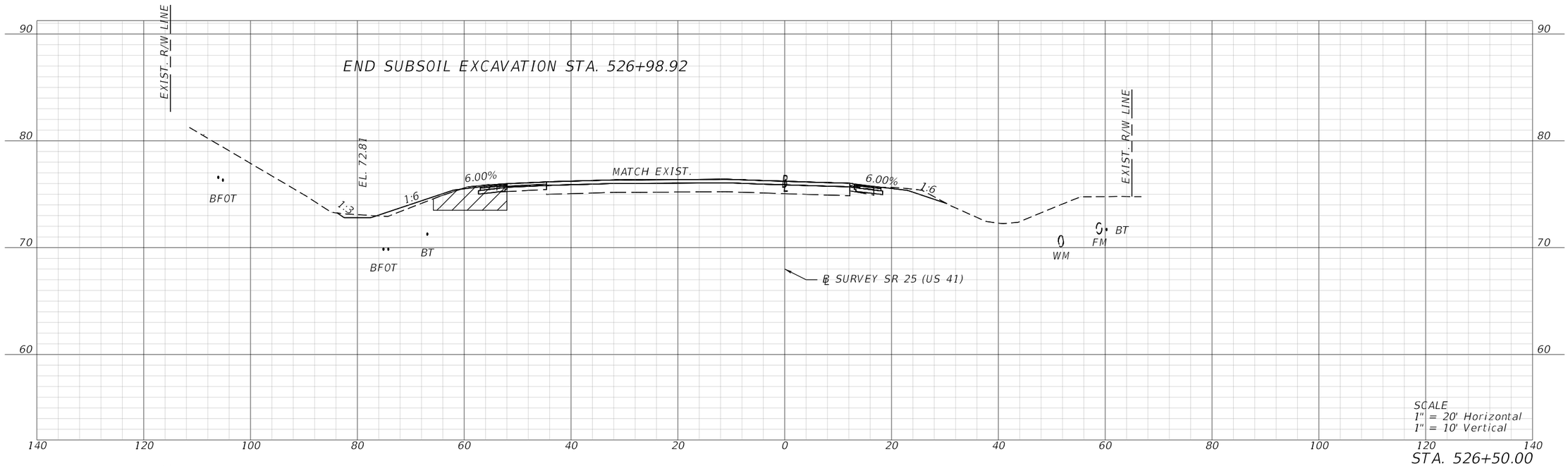

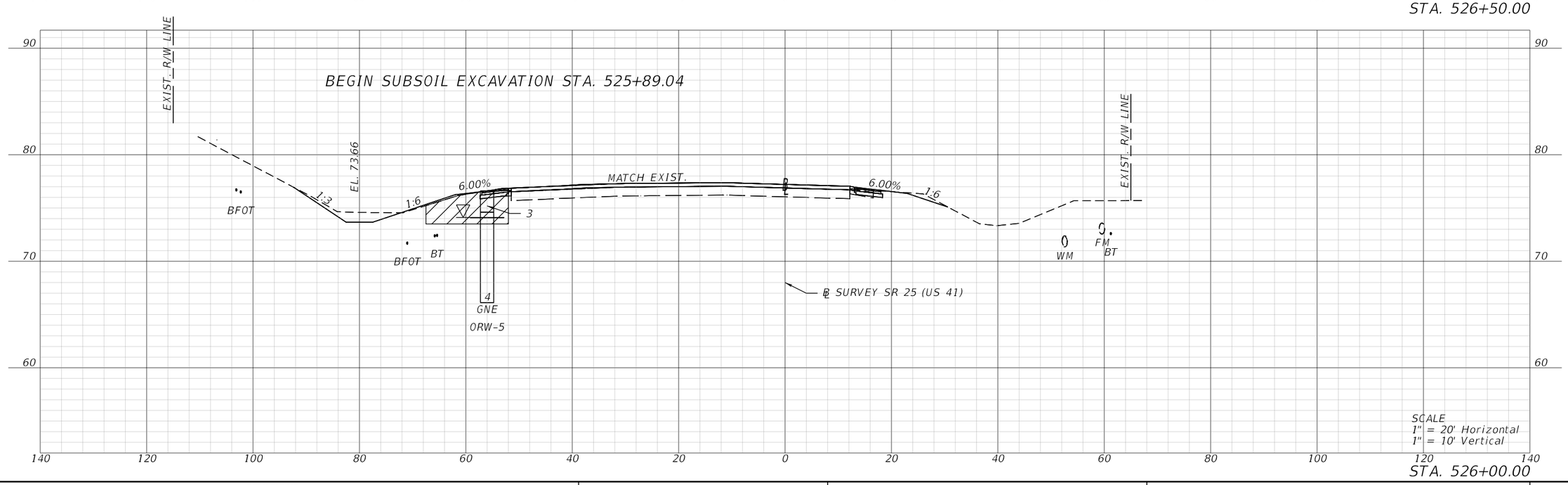

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

BRYON S. WUCZYNSKI, P.E.
LICENSE NUMBER: 64090
OSIRIS 9 CONSULTING, LLC
13241 BARTRAM PARK BLVD STE 1109
JACKSONVILLE, FL 32258

COLUMBIA CO BOCC

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 25	COLUMBIA	445725-5-54-02

CROSS SECTIONS

SHEET NO. 45

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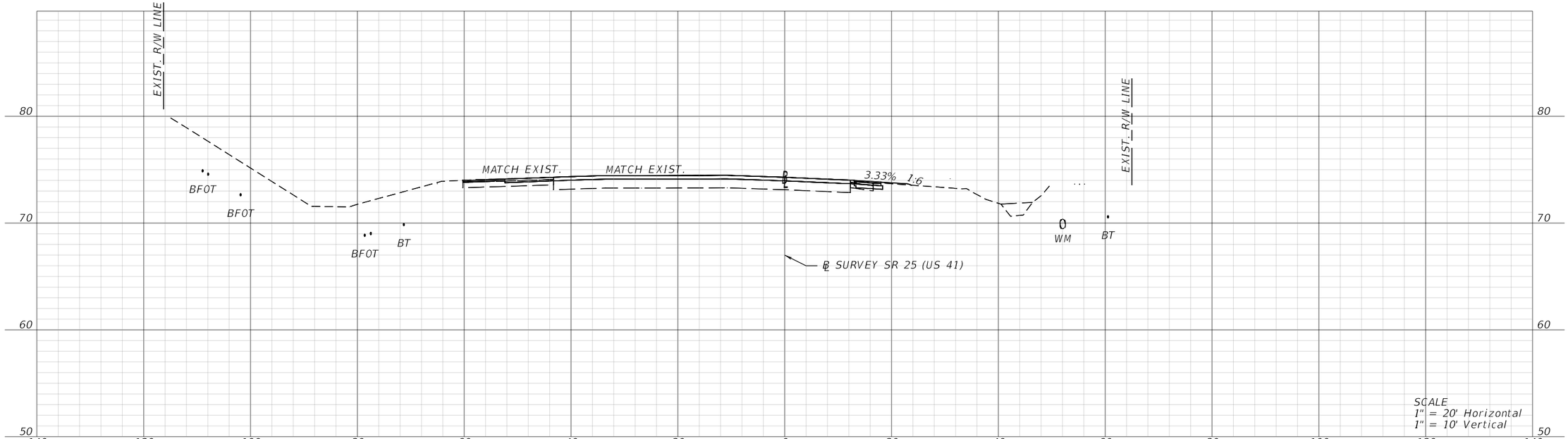

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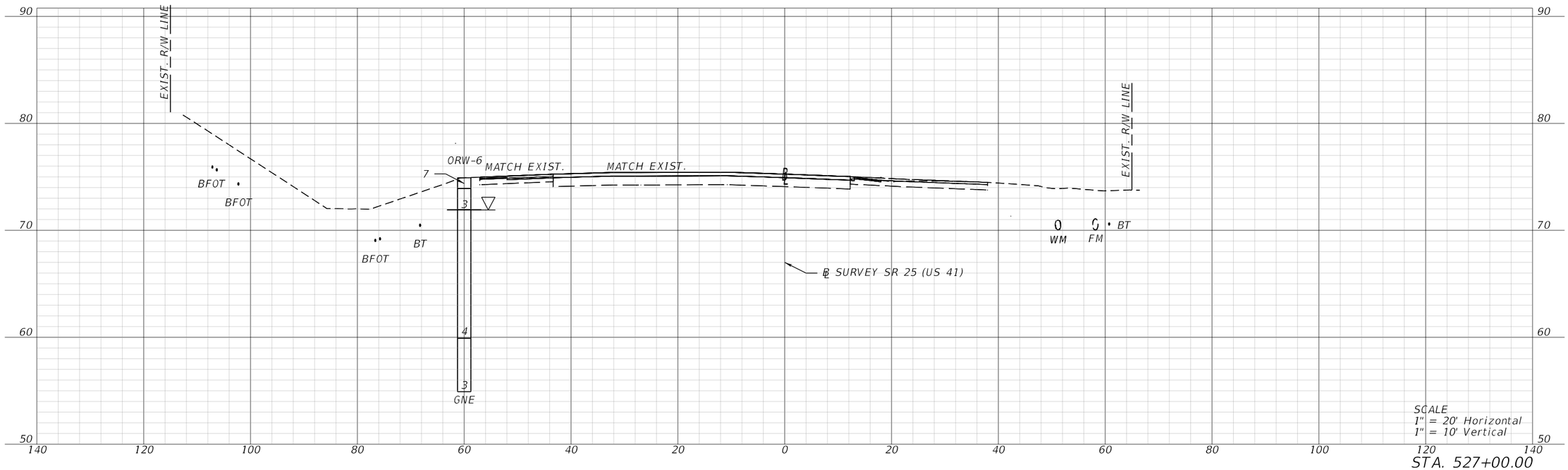
STA. 527+50.00



SCALE
1" = 20' Horizontal
1" = 10' Vertical

STA. 527+00.00

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

BRYON S. WUCZYNSKI, P.E.
LICENSE NUMBER: 64090
OSIRIS 9 CONSULTING, LLC
13241 BARTRAM PARK BLVD STE 1109
JACKSONVILLE, FL 32258

COLUMBIA CO BOCC

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 25	COLUMBIA	445725-5-54-02

CROSS SECTIONS

SHEET NO. 46

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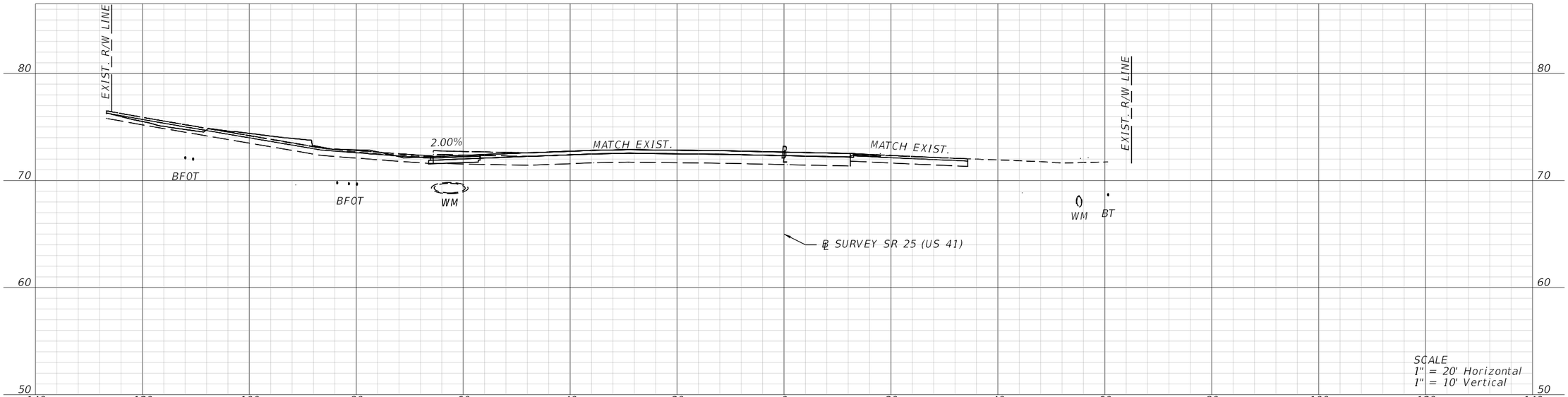

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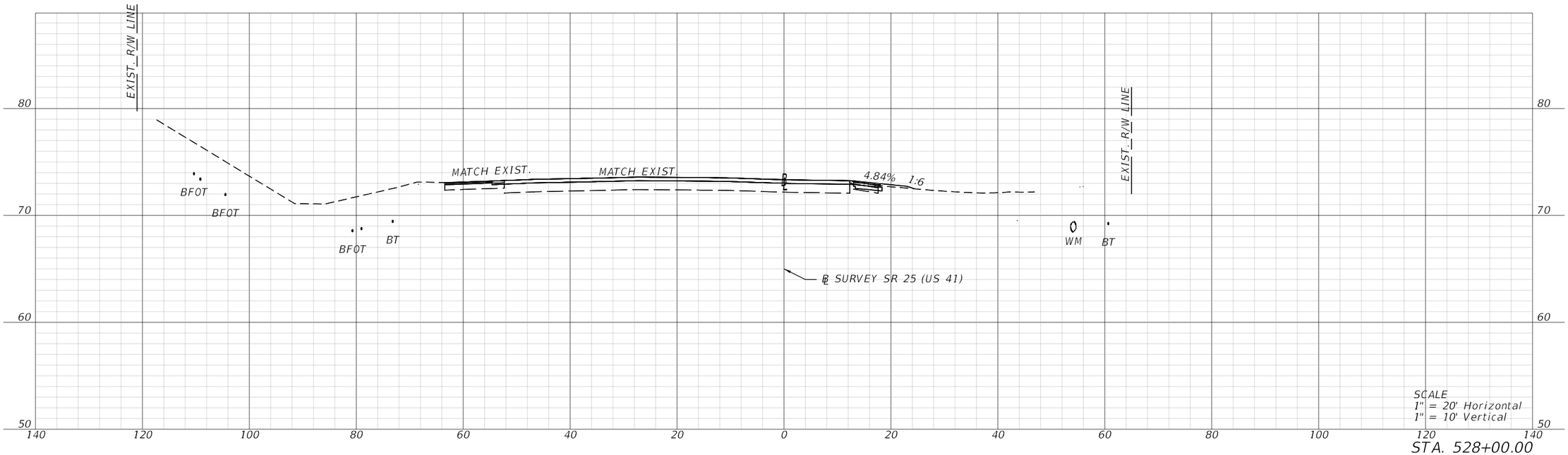
1" = 10' Vertical

STA. 528+50.00



SCALE
1" = 20' Horizontal
1" = 10' Vertical

STA. 528+00.00

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

BRYON S. WUCZYNSKI, P.E.
LICENSE NUMBER: 64090
OSIRIS 9 CONSULTING, LLC
13241 BARTRAM PARK BLVD STE 1109
JACKSONVILLE, FL 32258

COLUMBIA CO BOCC

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 25	COLUMBIA	445725-5-54-02

CROSS SECTIONS

SHEET NO. 47

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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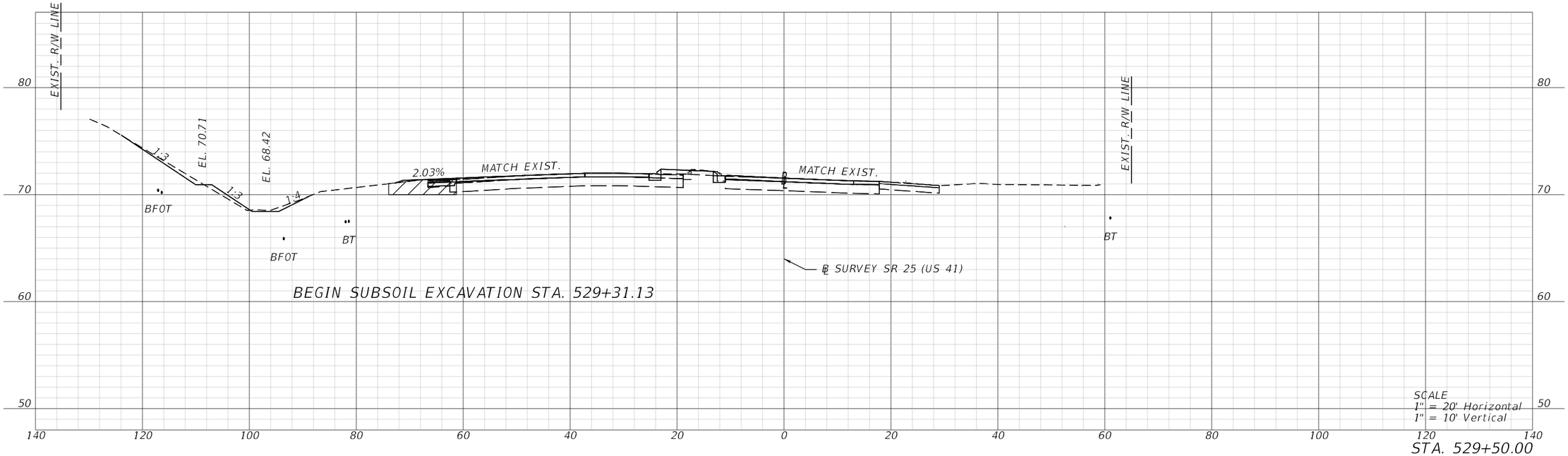

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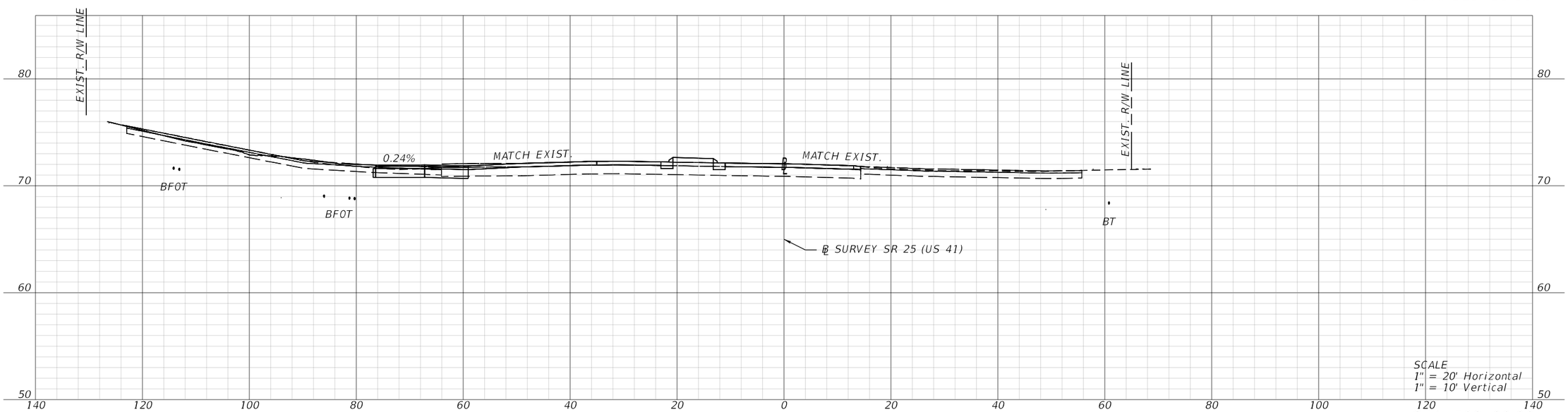

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REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

BRYON S. WUCZYNSKI, P.E.
LICENSE NUMBER: 64090
OSIRIS 9 CONSULTING, LLC
13241 BARTRAM PARK BLVD STE 1109
JACKSONVILLE, FL 32258

COLUMBIA CO BOCC

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 25	COLUMBIA	445725-5-54-02

CROSS SECTIONS

SHEET NO. 48

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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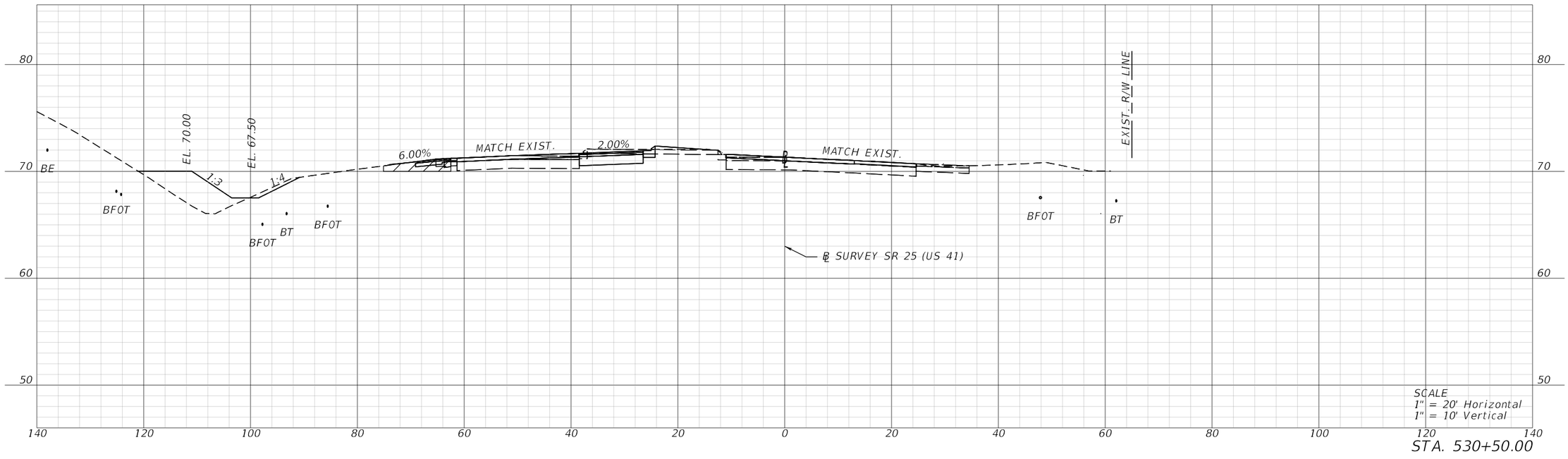

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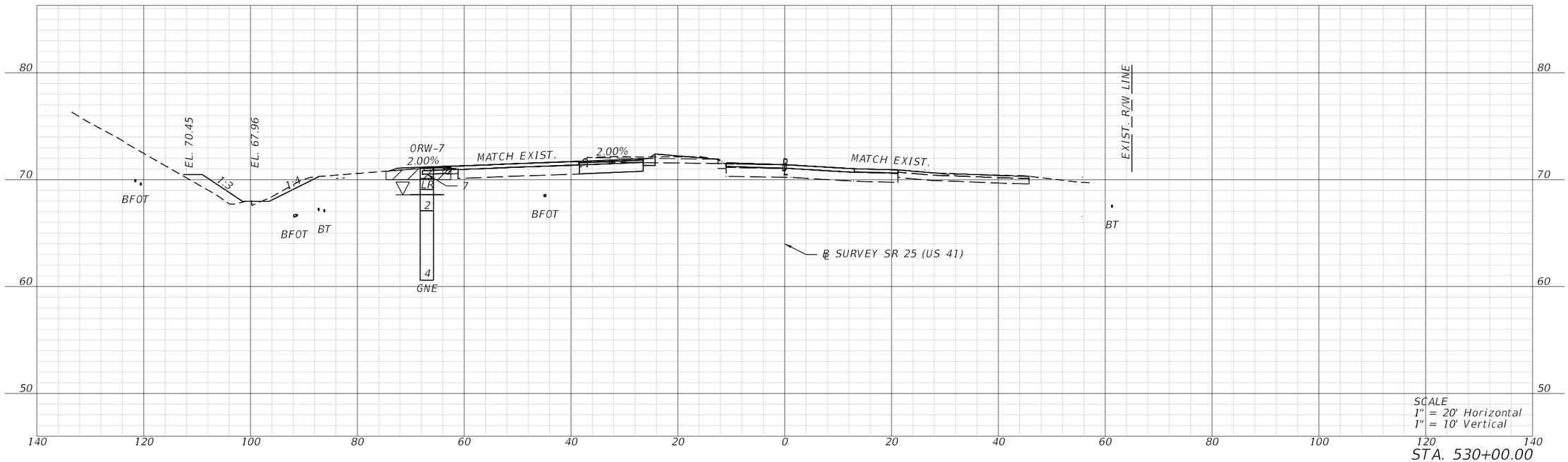

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REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

BRYON S. WUCZYNSKI, P.E.
LICENSE NUMBER: 64090
OSIRIS 9 CONSULTING, LLC
13241 BARTRAM PARK BLVD STE 1109
JACKSONVILLE, FL 32258

COLUMBIA CO BOCC

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 25	COLUMBIA	445725-5-54-02

CROSS SECTIONS

SHEET NO. 49

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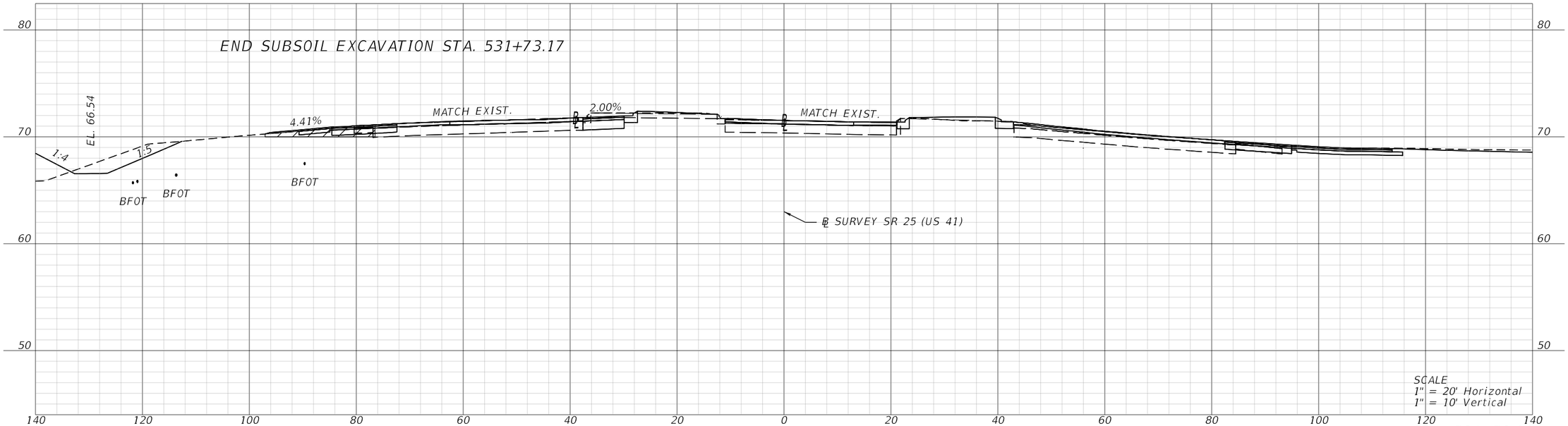

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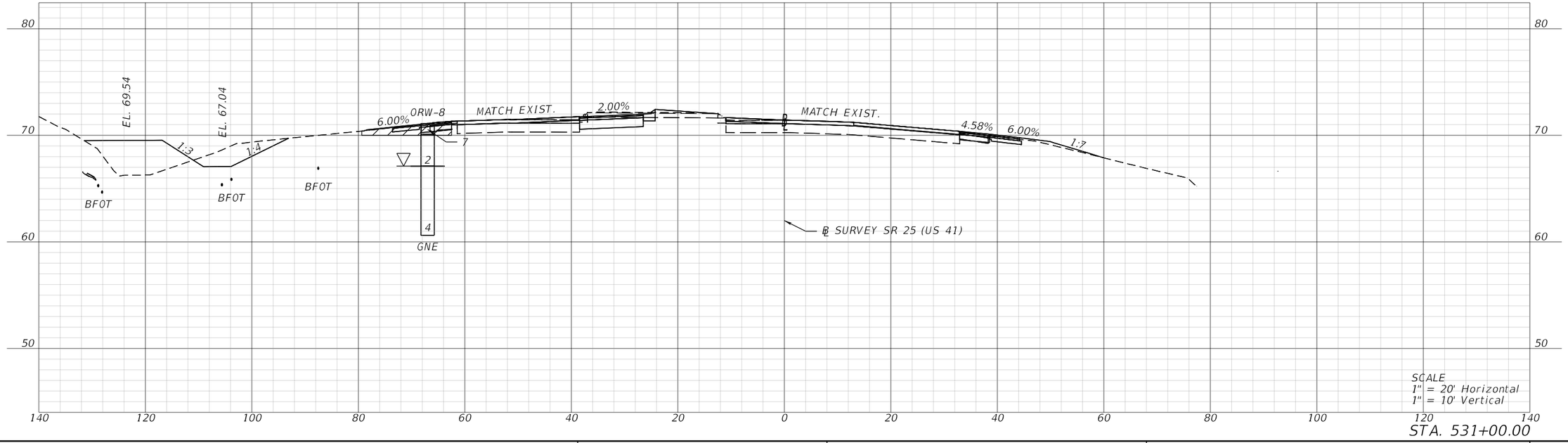

STA. 531+00.00

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

BRYON S. WUCZYNSKI, P.E.
LICENSE NUMBER: 64090
OSIRIS 9 CONSULTING, LLC
13241 BARTRAM PARK BLVD STE 1109
JACKSONVILLE, FL 32258

COLUMBIA CO BOCC

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 25	COLUMBIA	445725-5-54-02

CROSS SECTIONS

SHEET NO. 50

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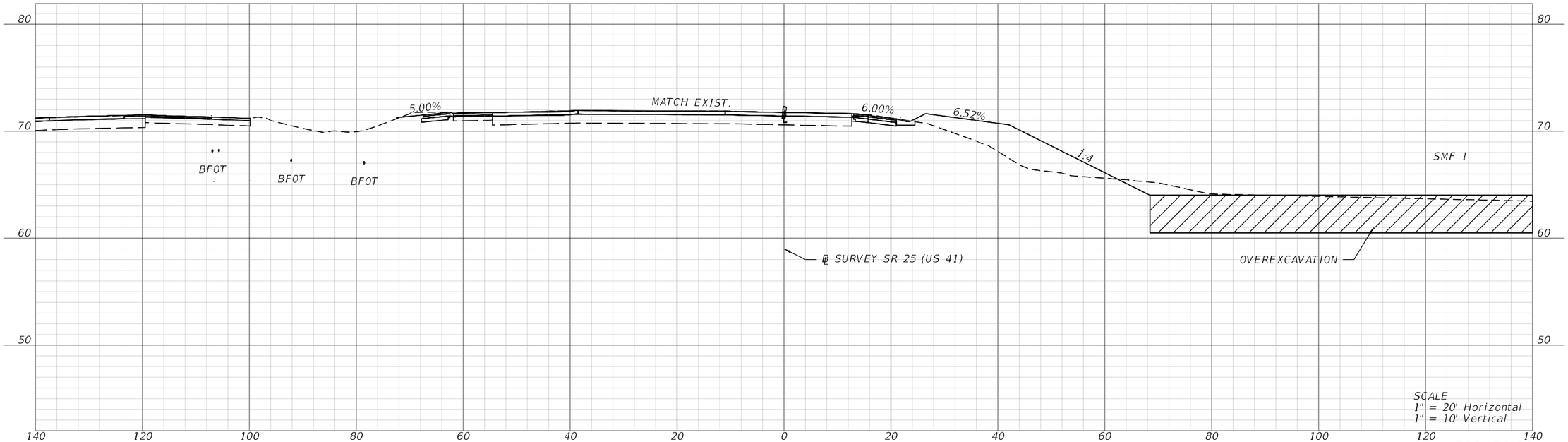

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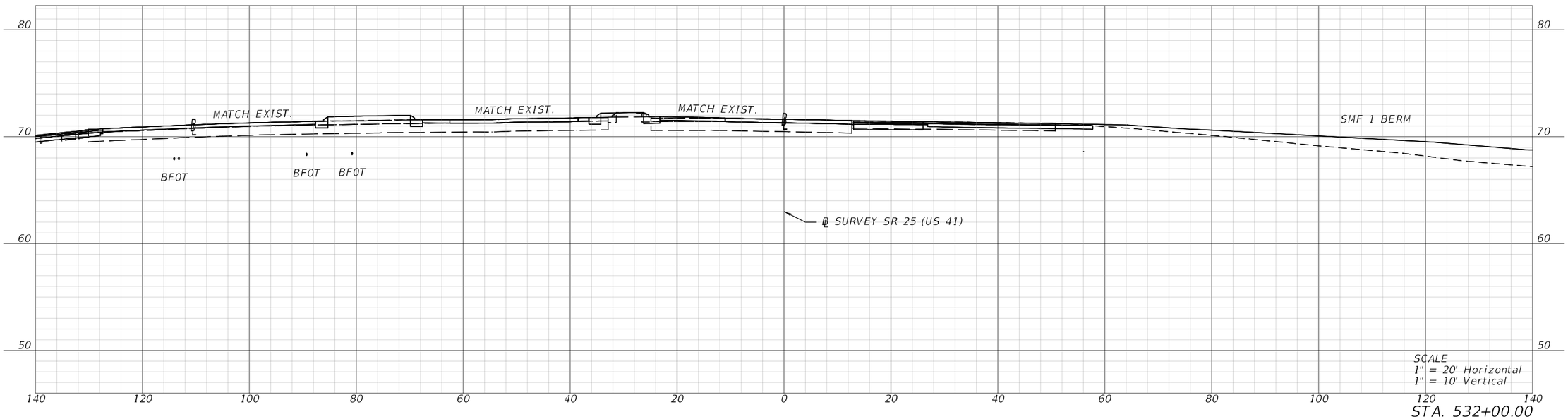

STA. 532+00.00

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

BRYON S. WUCZYNSKI, P.E.
LICENSE NUMBER: 64090
OSIRIS 9 CONSULTING, LLC
13241 BARTRAM PARK BLVD STE 1109
JACKSONVILLE, FL 32258

COLUMBIA CO BOCC

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 25	COLUMBIA	445725-5-54-02

CROSS SECTIONS

SHEET NO. 51

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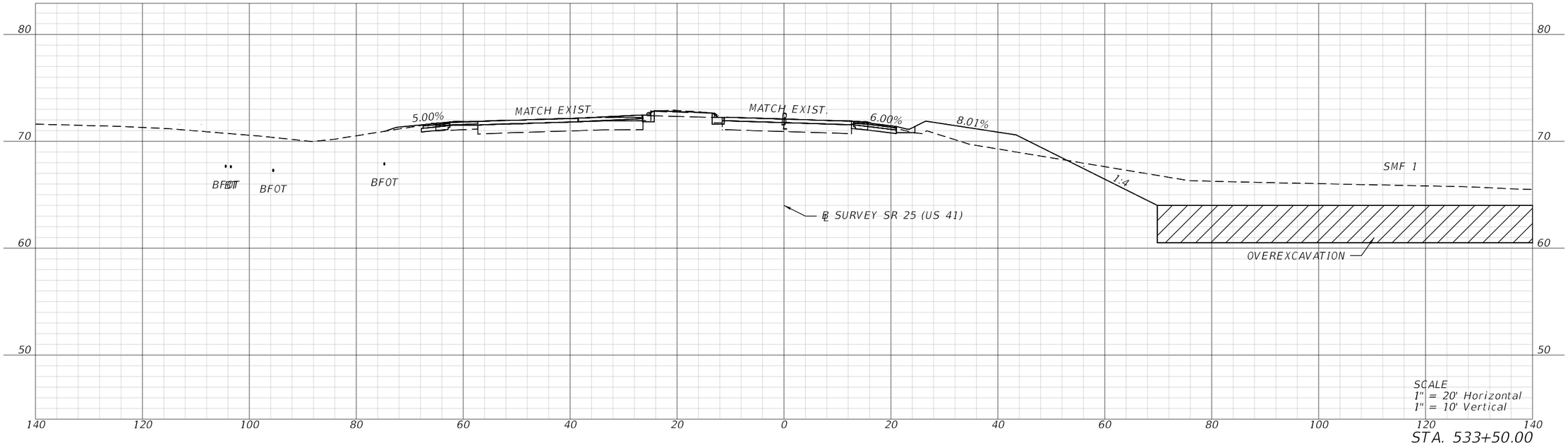

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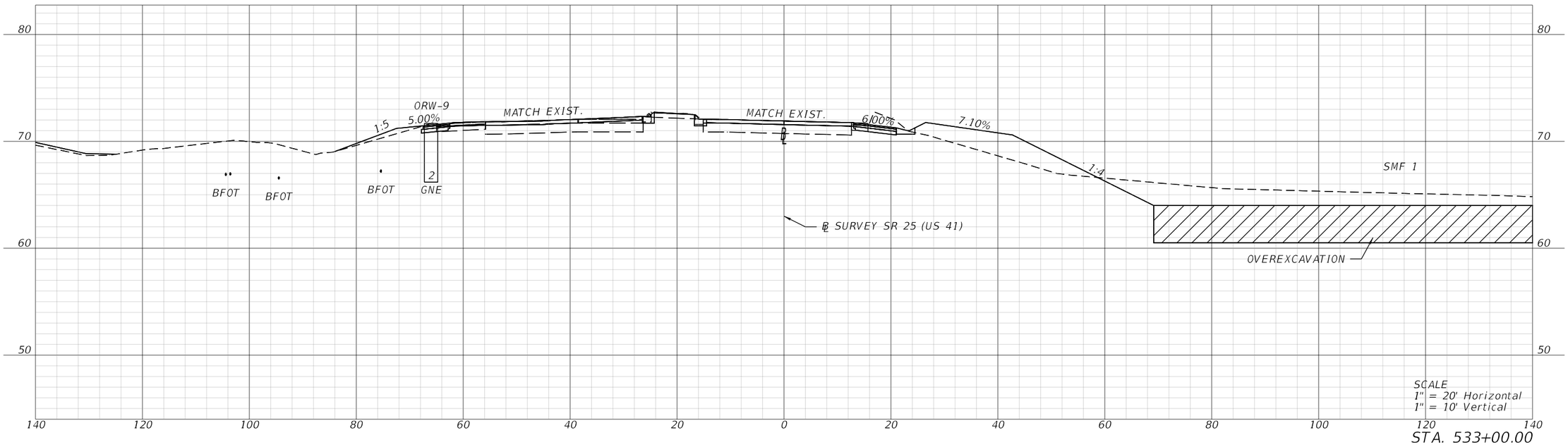

STA. 533+00.00

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

BRYON S. WUCZYNSKI, P.E.
LICENSE NUMBER: 64090
OSIRIS 9 CONSULTING, LLC
13241 BARTRAM PARK BLVD STE 1109
JACKSONVILLE, FL 32258

COLUMBIA CO BOCC

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 25	COLUMBIA	445725-5-54-02

CROSS SECTIONS

SHEET NO. 52

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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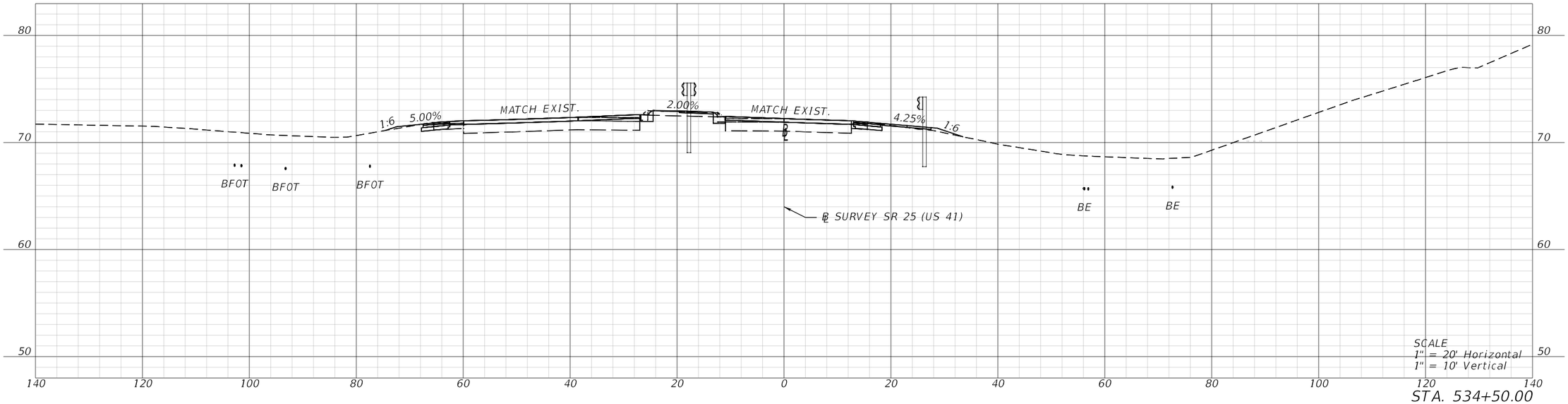
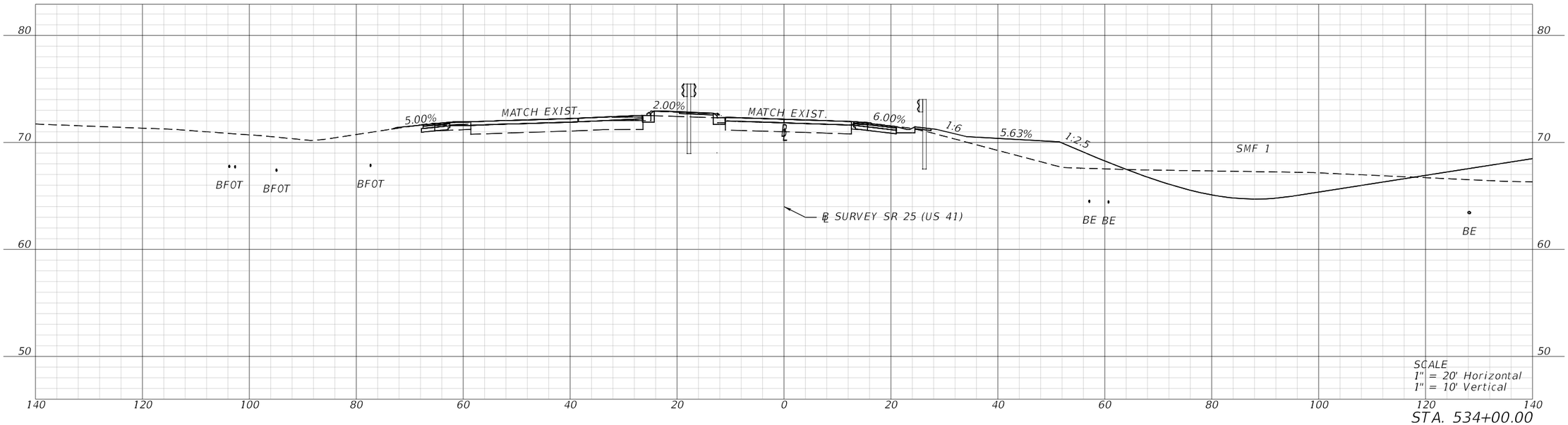


STA. 534+50.00



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REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

BRYON S. WUCZYNSKI, P.E.
LICENSE NUMBER: 64090
OSIRIS 9 CONSULTING, LLC
13241 BARTRAM PARK BLVD STE 1109
JACKSONVILLE, FL 32258

COLUMBIA CO BOCC

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 25	COLUMBIA	445725-5-54-02

CROSS SECTIONS

SHEET NO. 53

THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.

T:\WorkSets\Columbia County\44572515201\Roadway\RDXSRD01.dgn : BL_SURVEY_US 41 - 534+00.00 [SHEET]
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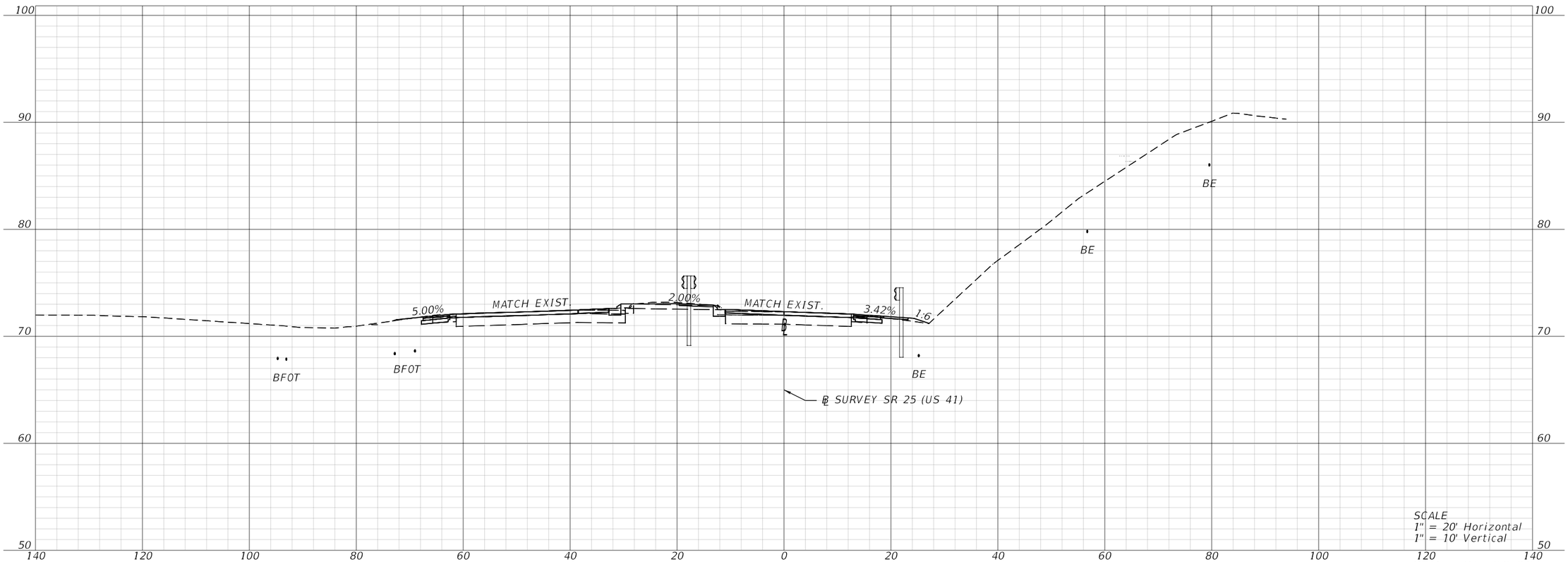

STA. 535+00.00

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

BRYON S. WUCZYNSKI, P.E.
LICENSE NUMBER: 64090
OSIRIS 9 CONSULTING, LLC
13241 BARTRAM PARK BLVD STE 1109
JACKSONVILLE, FL 32258

COLUMBIA CO BOCC

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 25	COLUMBIA	445725-5-54-02

CROSS SECTIONS

SHEET NO. 54

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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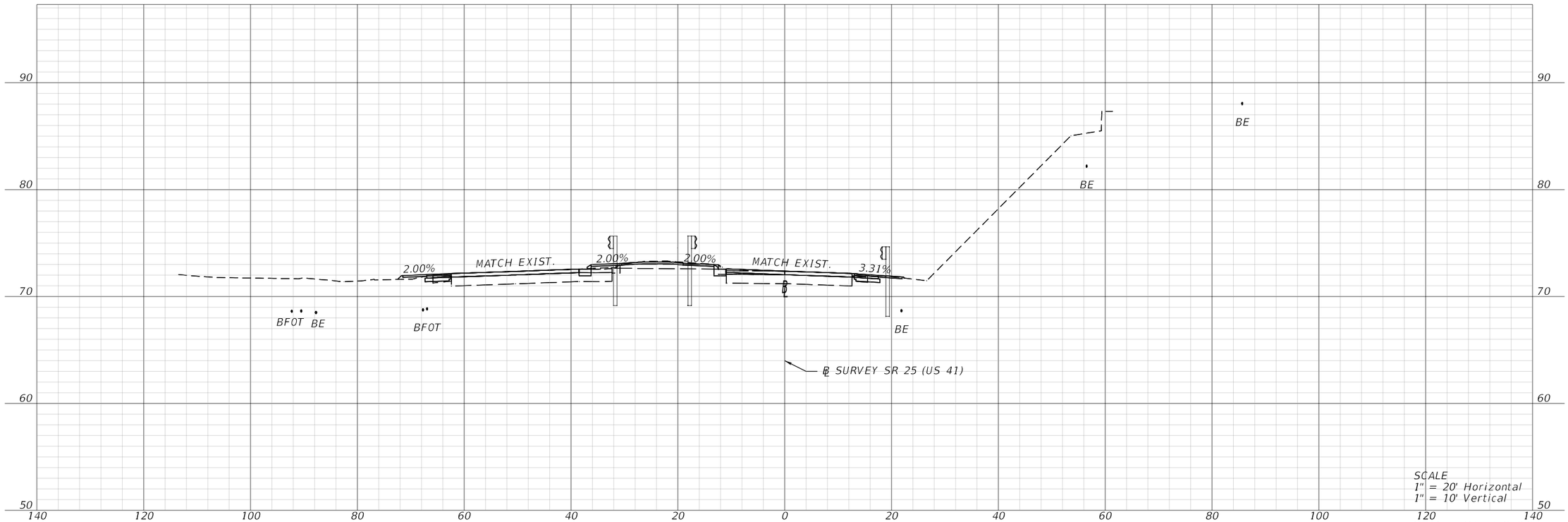

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

BRYON S. WUCZYNSKI, P.E.
LICENSE NUMBER: 64090
OSIRIS 9 CONSULTING, LLC
13241 BARTRAM PARK BLVD STE 1109
JACKSONVILLE, FL 32258

COLUMBIA CO BOCC

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 25	COLUMBIA	445725-5-54-02

CROSS SECTIONS

SHEET NO. 55

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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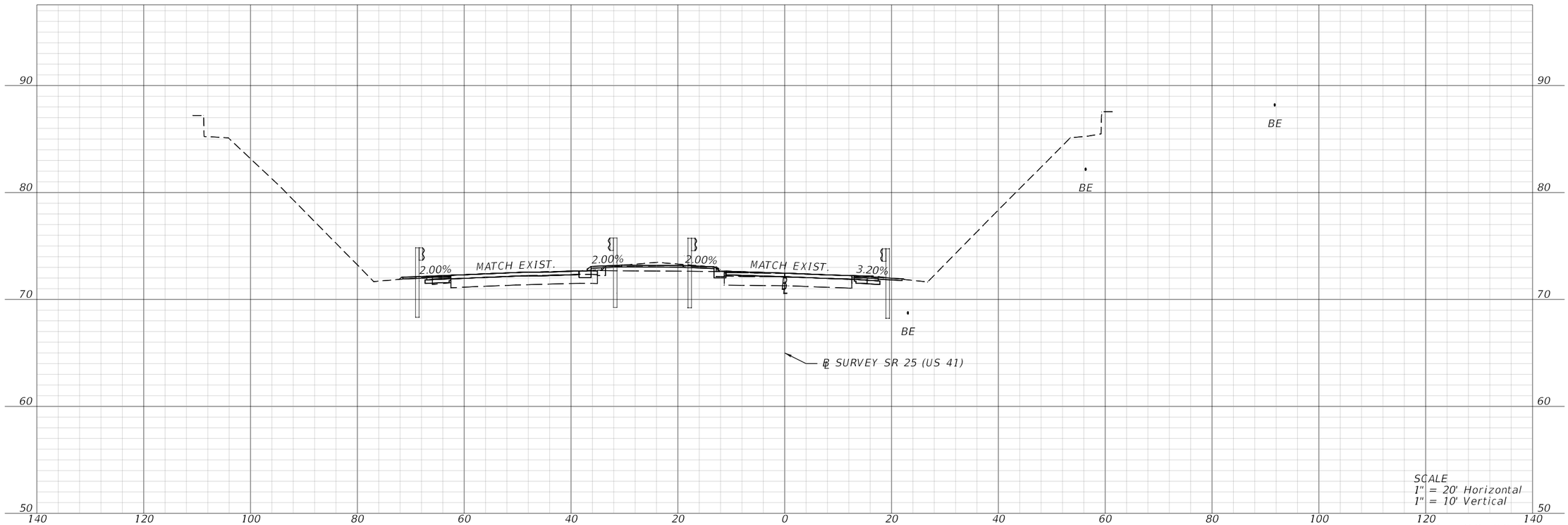

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

BRYON S. WUCZYNSKI, P.E.
LICENSE NUMBER: 64090
OSIRIS 9 CONSULTING, LLC
13241 BARTRAM PARK BLVD STE 1109
JACKSONVILLE, FL 32258

COLUMBIA CO BOCC

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 25	COLUMBIA	445725-5-54-02

CROSS SECTIONS

SHEET NO. 56

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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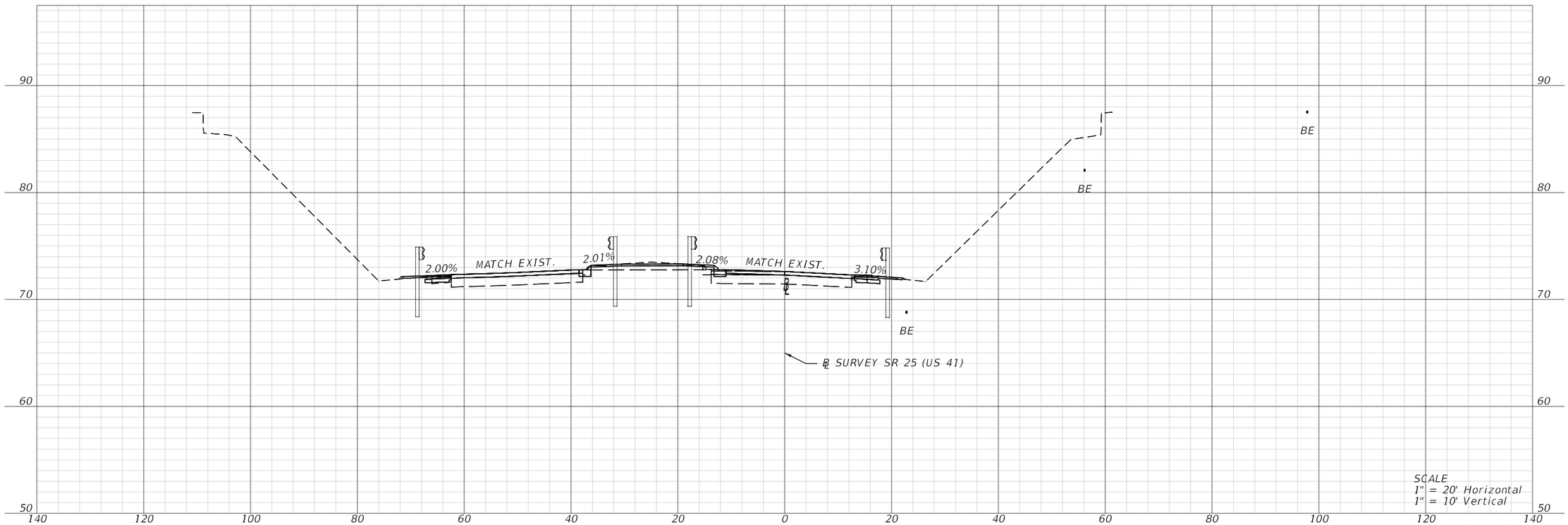


REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

BRYON S. WUCZYNSKI, P.E.
LICENSE NUMBER: 64090
OSIRIS 9 CONSULTING, LLC
13241 BARTRAM PARK BLVD STE 1109
JACKSONVILLE, FL 32258

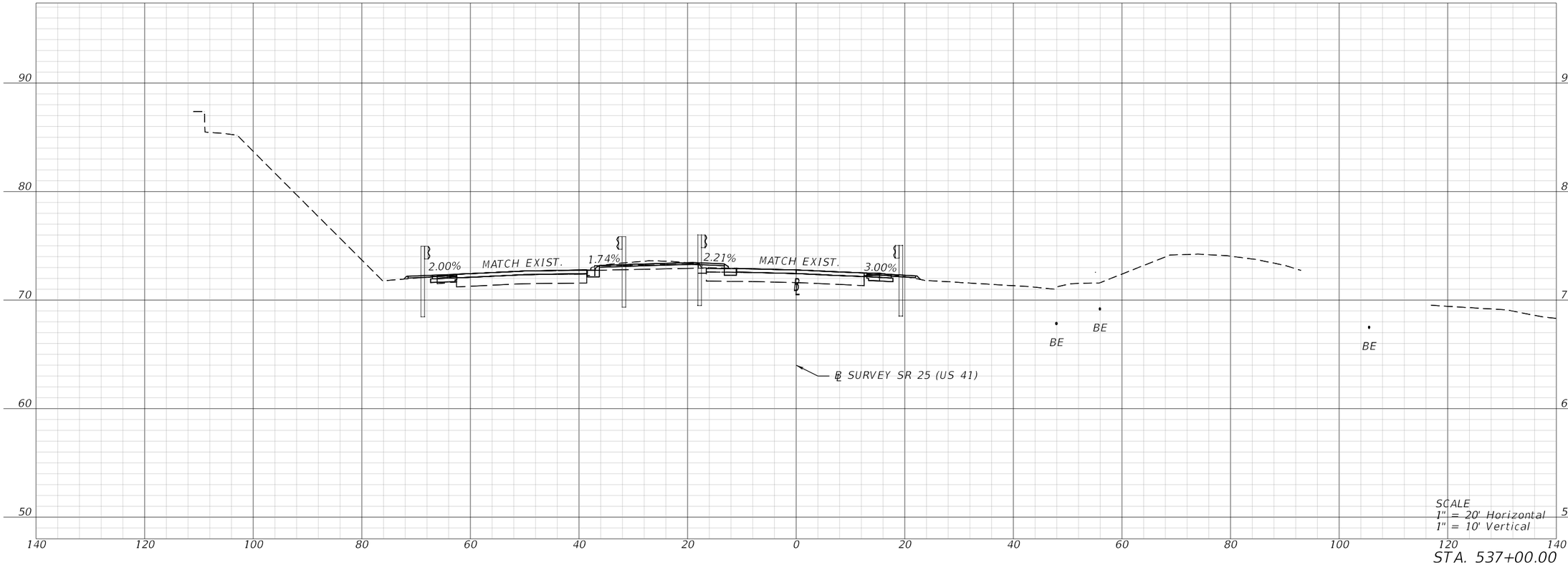
COLUMBIA CO BOCC

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 25	COLUMBIA	445725-5-54-02

CROSS SECTIONS

SHEET NO. 57

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

BRYON S. WUCZYNSKI, P.E.
LICENSE NUMBER: 64090
OSIRIS 9 CONSULTING, LLC
13241 BARTRAM PARK BLVD STE 1109
JACKSONVILLE, FL 32258

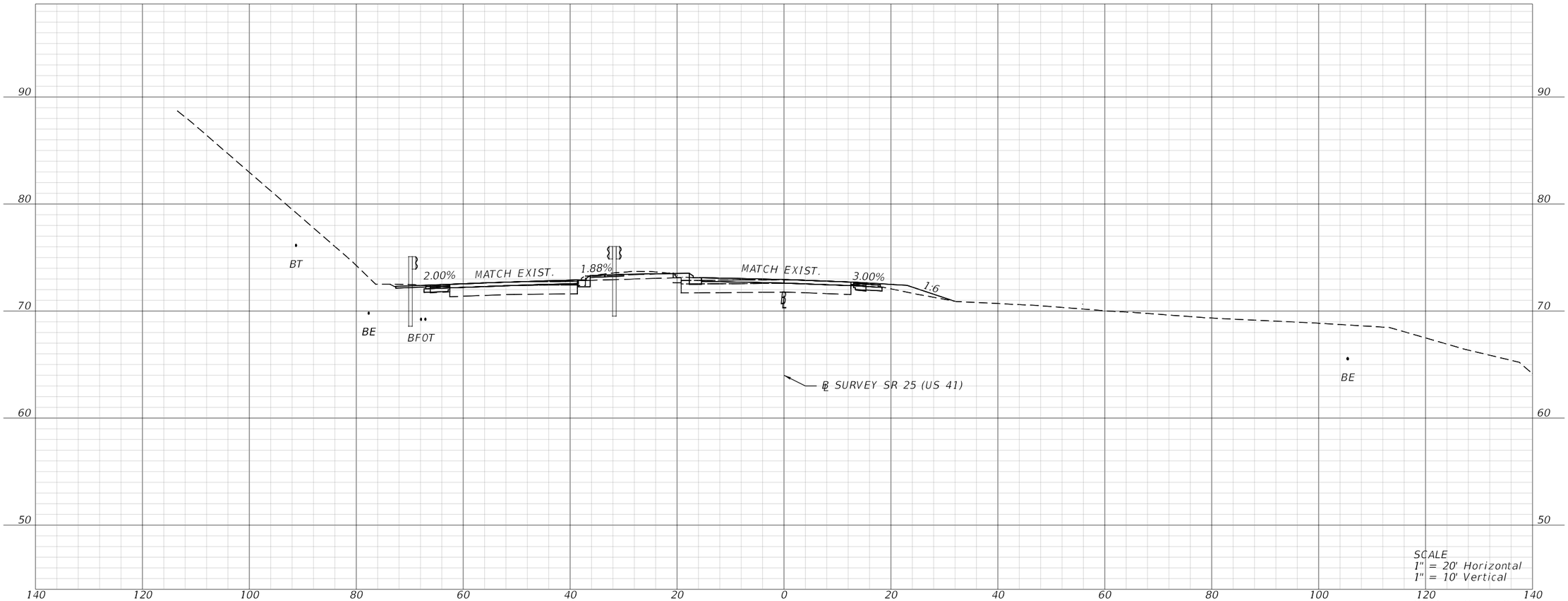
COLUMBIA CO BOCC

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 25	COLUMBIA	445725-5-54-02

CROSS SECTIONS

SHEET NO. 58

THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.



STA. 537+50.00

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

BRYON S. WUCZYNSKI, P.E.
LICENSE NUMBER: 64090
OSIRIS 9 CONSULTING, LLC
13241 BARTRAM PARK BLVD STE 1109
JACKSONVILLE, FL 32258

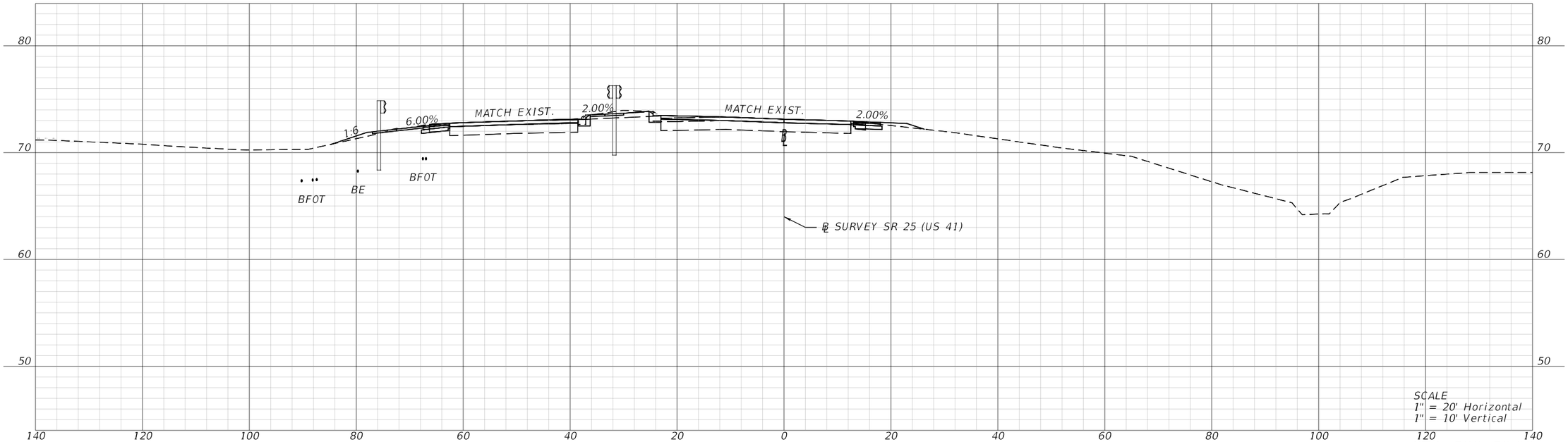
COLUMBIA CO BOCC

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 25	COLUMBIA	445725-5-54-02

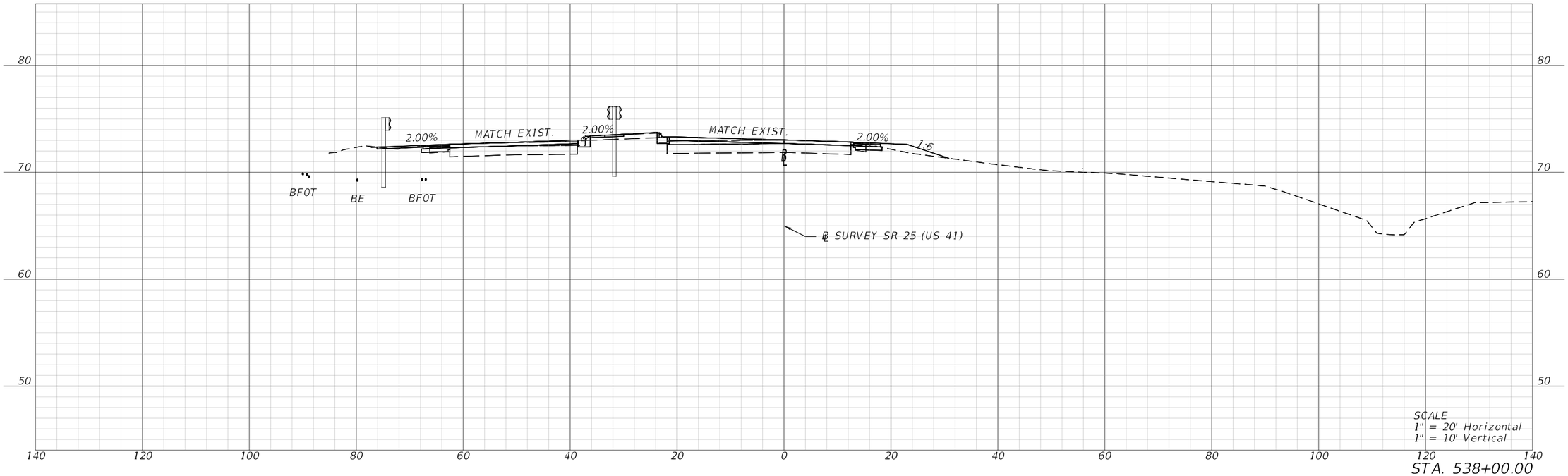
CROSS SECTIONS

SHEET NO. 59

THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.



STA. 538+50.00



STA. 538+00.00

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

BRYON S. WUCZYNSKI, P.E.
LICENSE NUMBER: 64090
OSIRIS 9 CONSULTING, LLC
13241 BARTRAM PARK BLVD STE 1109
JACKSONVILLE, FL 32258

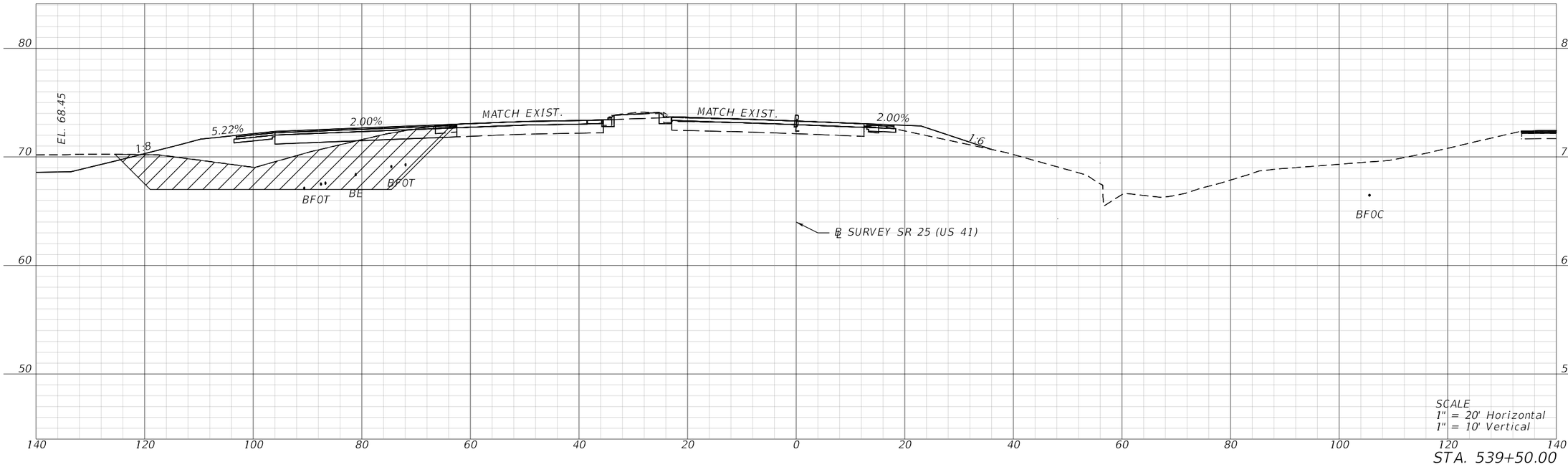
COLUMBIA CO BOCC

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 25	COLUMBIA	445725-5-54-02

CROSS SECTIONS

SHEET NO. 60

THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.



SCALE
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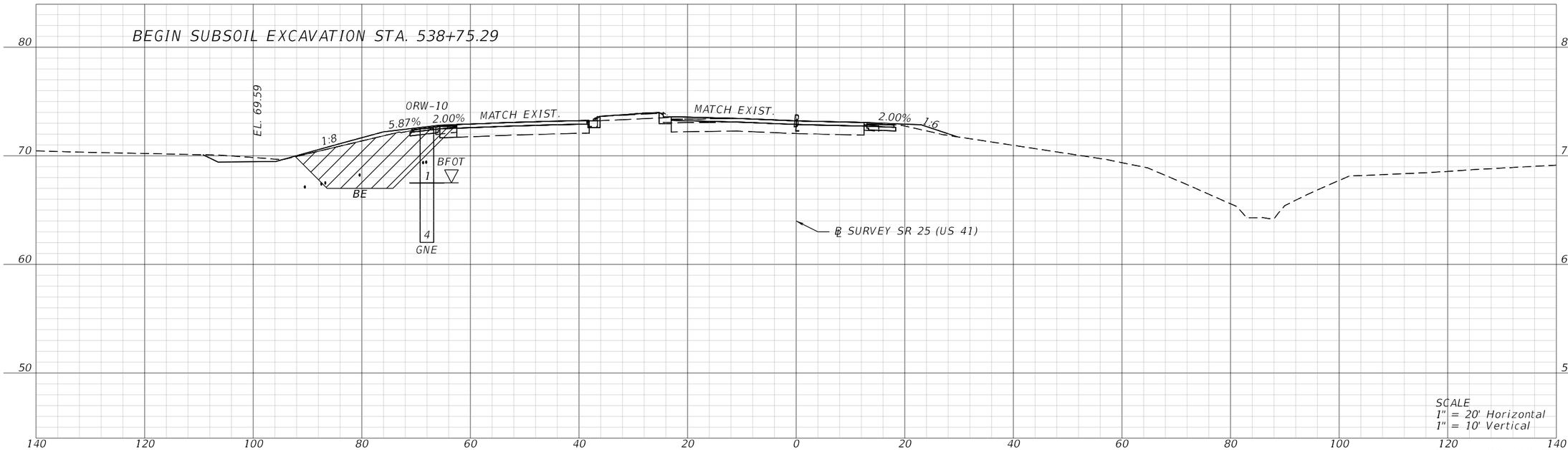
1" = 10' Vertical

STA. 539+50.00



SCALE
1" = 20' Horizontal
1" = 10' Vertical

STA. 539+00.00

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

BRYON S. WUCZYNSKI, P.E.
LICENSE NUMBER: 64090
OSIRIS 9 CONSULTING, LLC
13241 BARTRAM PARK BLVD STE 1109
JACKSONVILLE, FL 32258

COLUMBIA CO BOCC

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 25	COLUMBIA	445725-5-54-02

CROSS SECTIONS

SHEET NO. 61

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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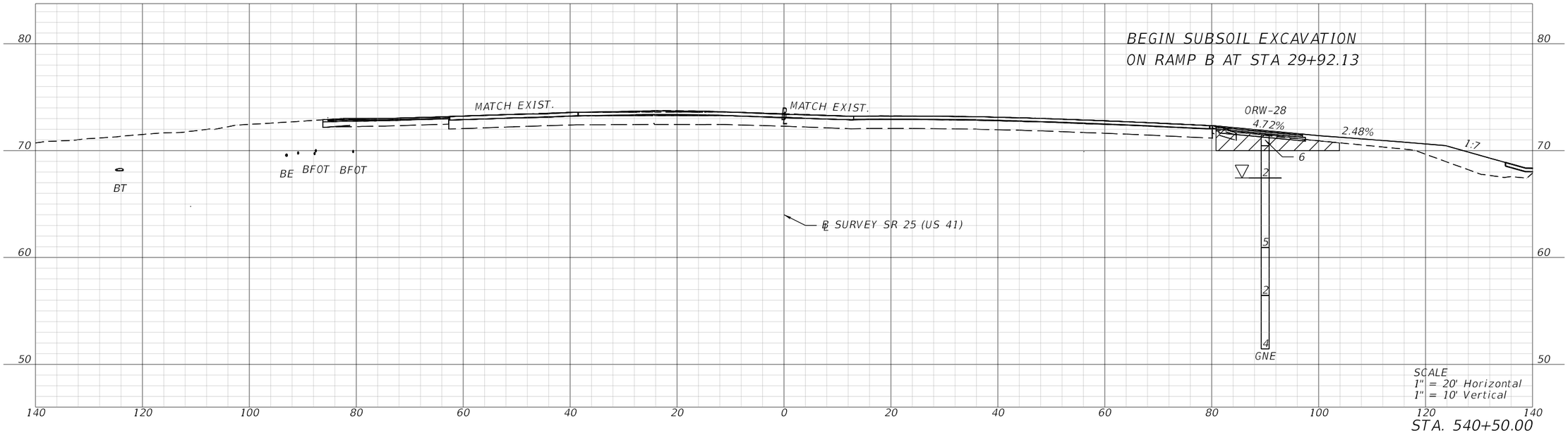
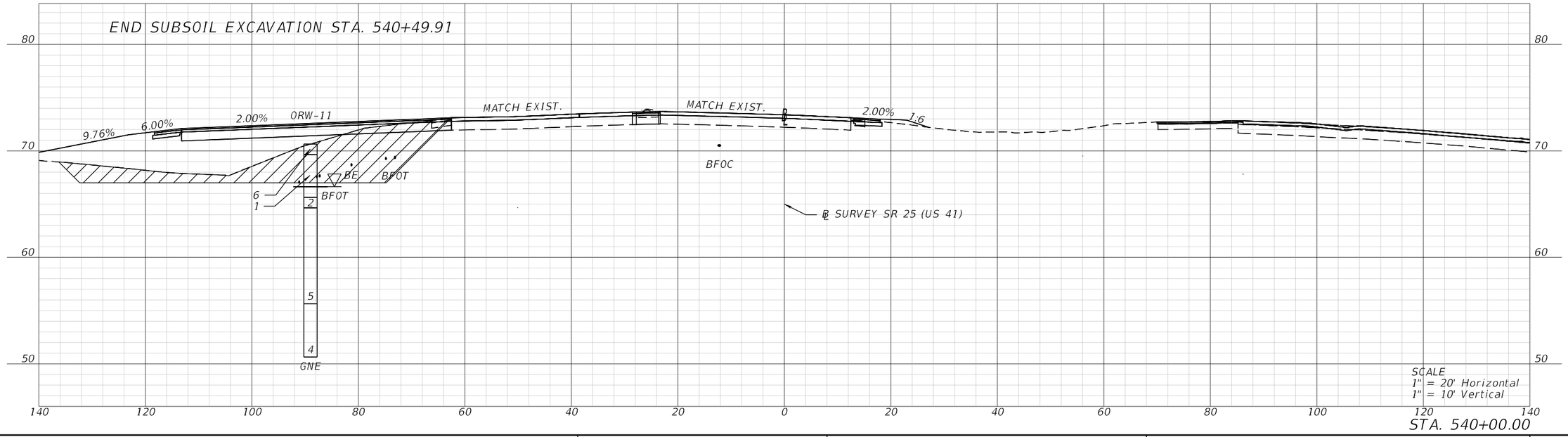


STA. 540+50.00



STA. 540+00.00

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

BRYON S. WUCZYNSKI, P.E.
LICENSE NUMBER: 64090
OSIRIS 9 CONSULTING, LLC
13241 BARTRAM PARK BLVD STE 1109
JACKSONVILLE, FL 32258

COLUMBIA CO BOCC

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 25	COLUMBIA	445725-5-54-02

CROSS SECTIONS

SHEET NO. 62

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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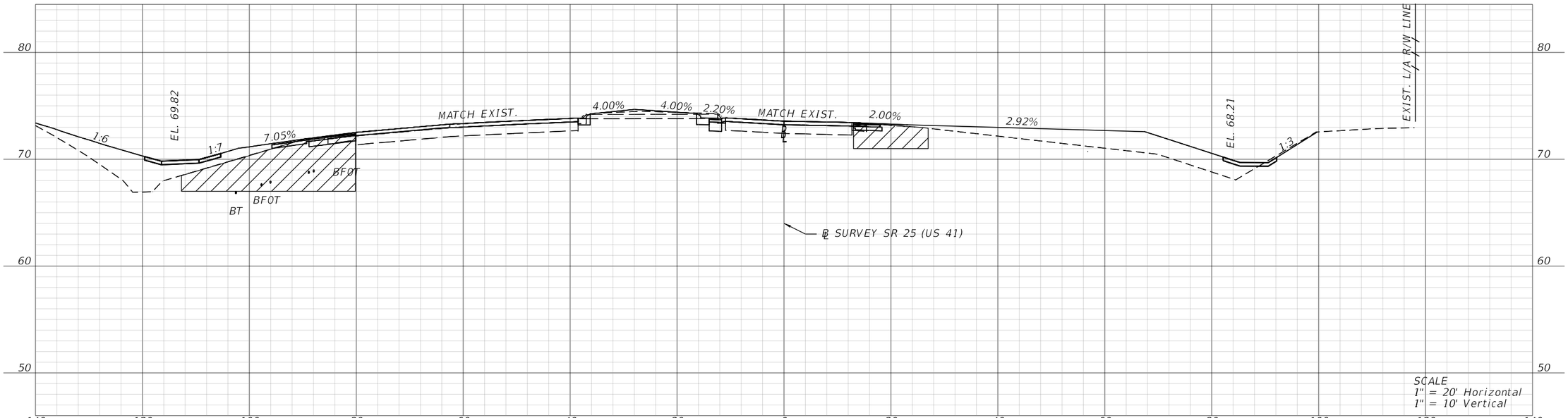

SCALE
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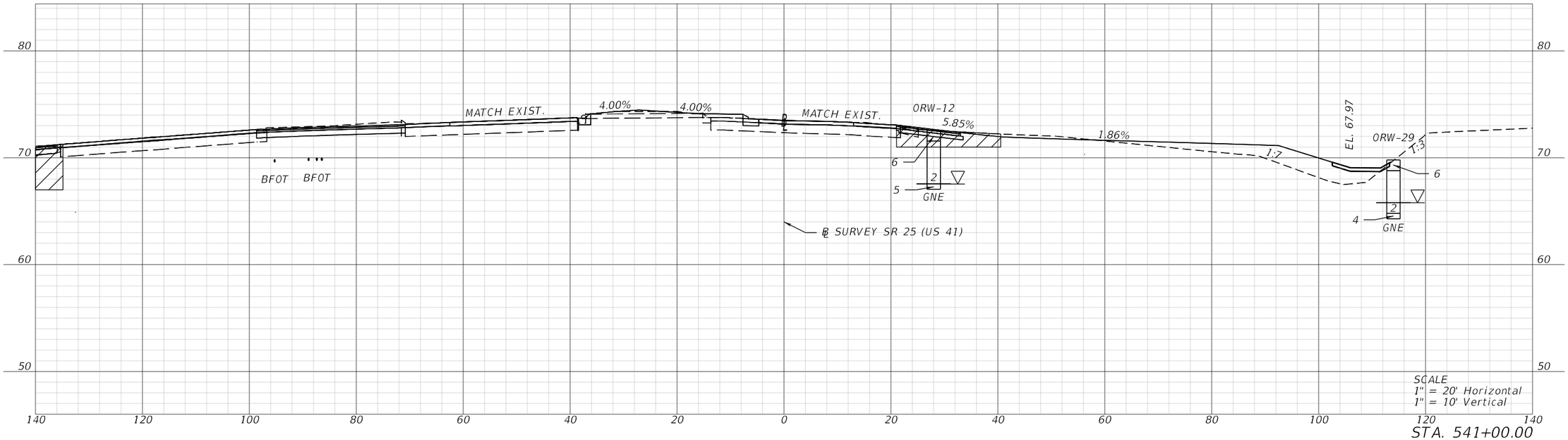
1" = 10' Vertical

STA. 541+50.00



SCALE
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1" = 10' Vertical

STA. 541+00.00

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

BRYON S. WUCZYNSKI, P.E.
LICENSE NUMBER: 64090
OSIRIS 9 CONSULTING, LLC
13241 BARTRAM PARK BLVD STE 1109
JACKSONVILLE, FL 32258

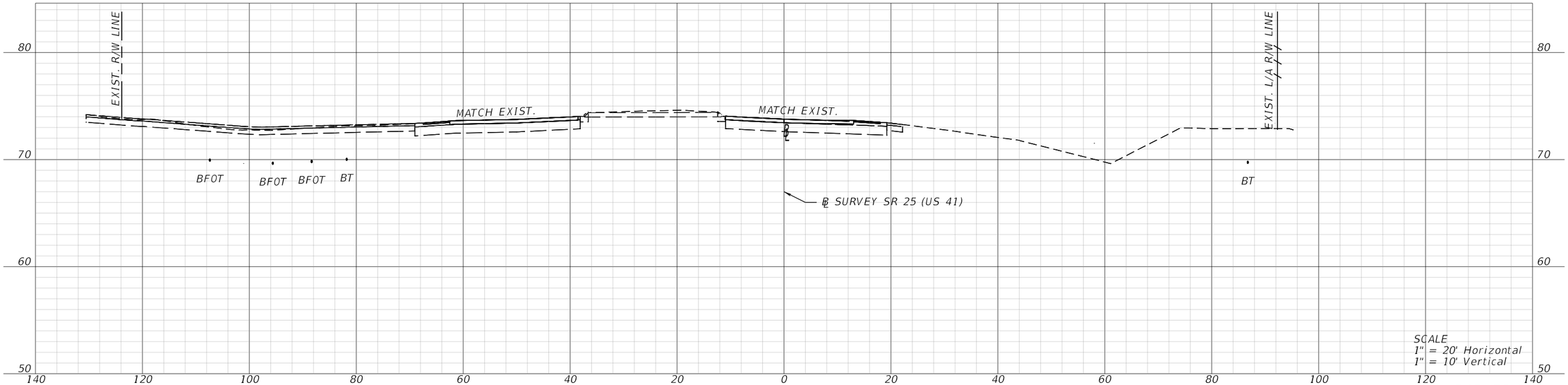
COLUMBIA CO BOCC

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 25	COLUMBIA	445725-5-54-02

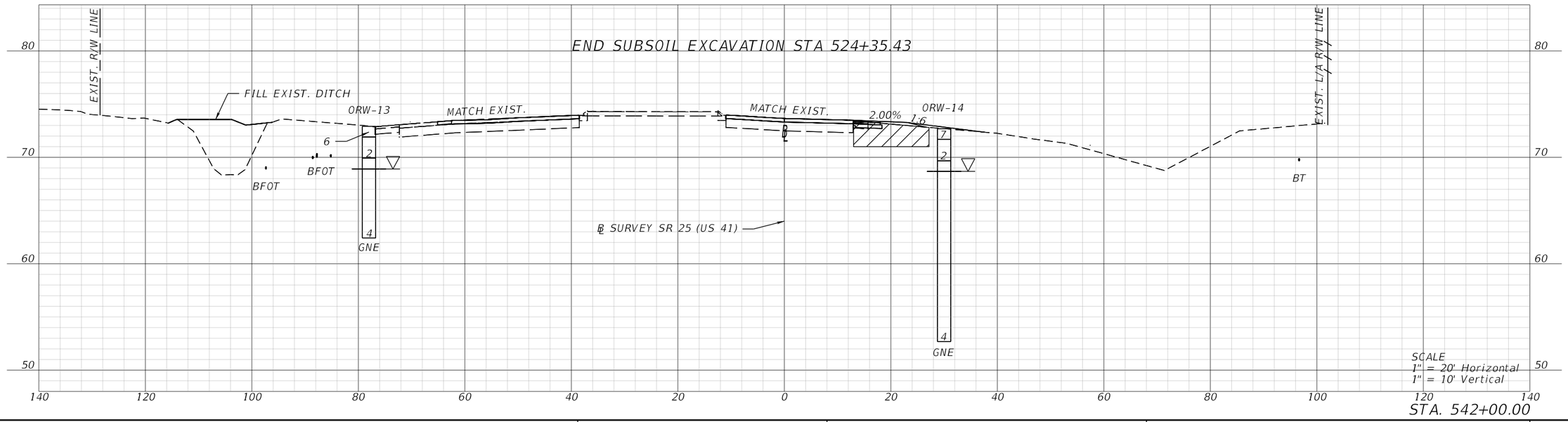
CROSS SECTIONS

SHEET NO. 63

THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.



STA. 542+50.00



STA. 542+00.00

REVISIONS			
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LICENSE NUMBER: 64090
OSIRIS 9 CONSULTING, LLC
13241 BARTRAM PARK BLVD STE 1109
JACKSONVILLE, FL 32258

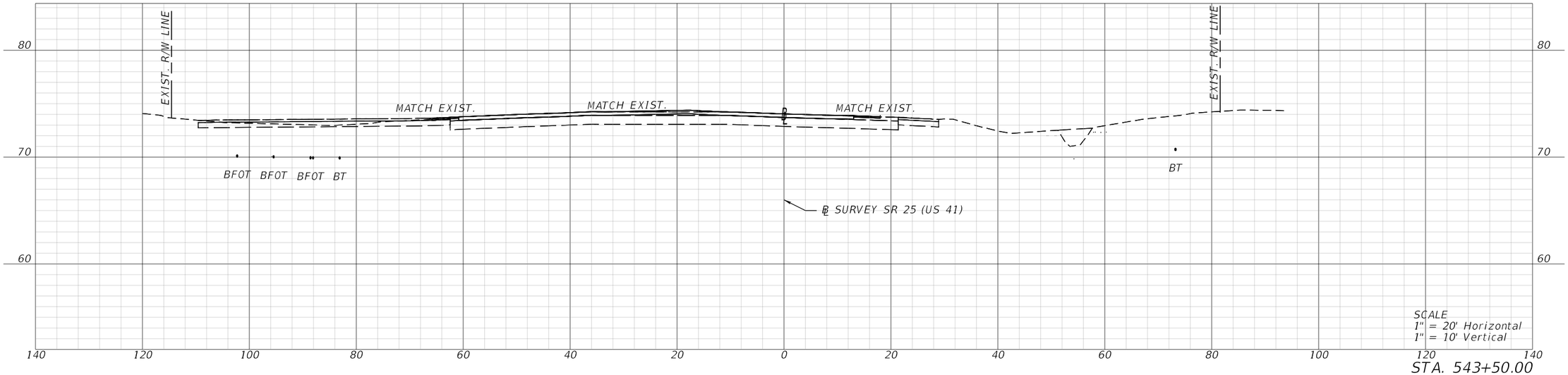
COLUMBIA CO BOCC

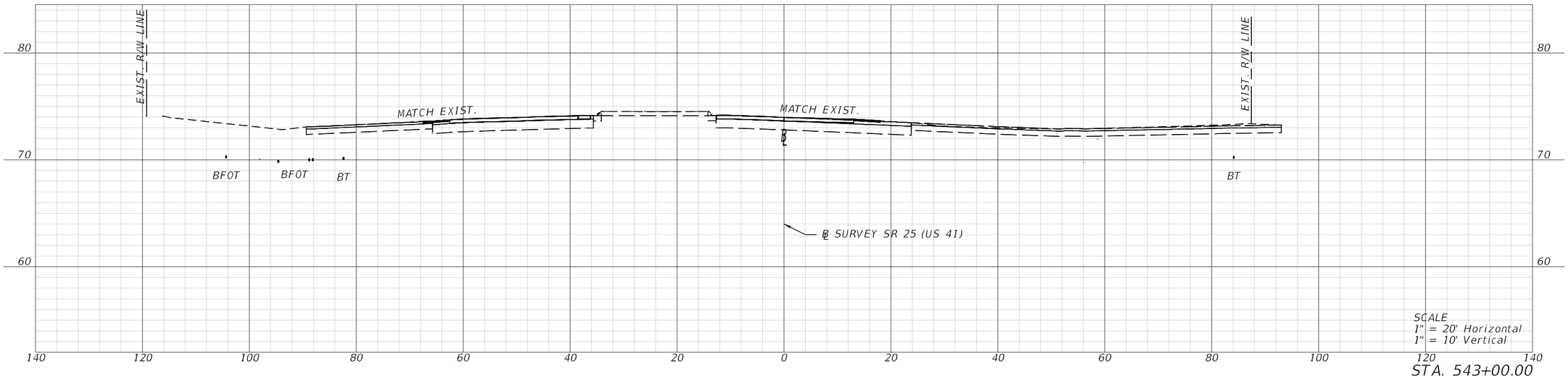
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 25	COLUMBIA	445725-5-54-02

CROSS SECTIONS

SHEET NO. 64

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

BRYON S. WUCZYNSKI, P.E.
LICENSE NUMBER: 64090
OSIRIS 9 CONSULTING, LLC
13241 BARTRAM PARK BLVD STE 1109
JACKSONVILLE, FL 32258

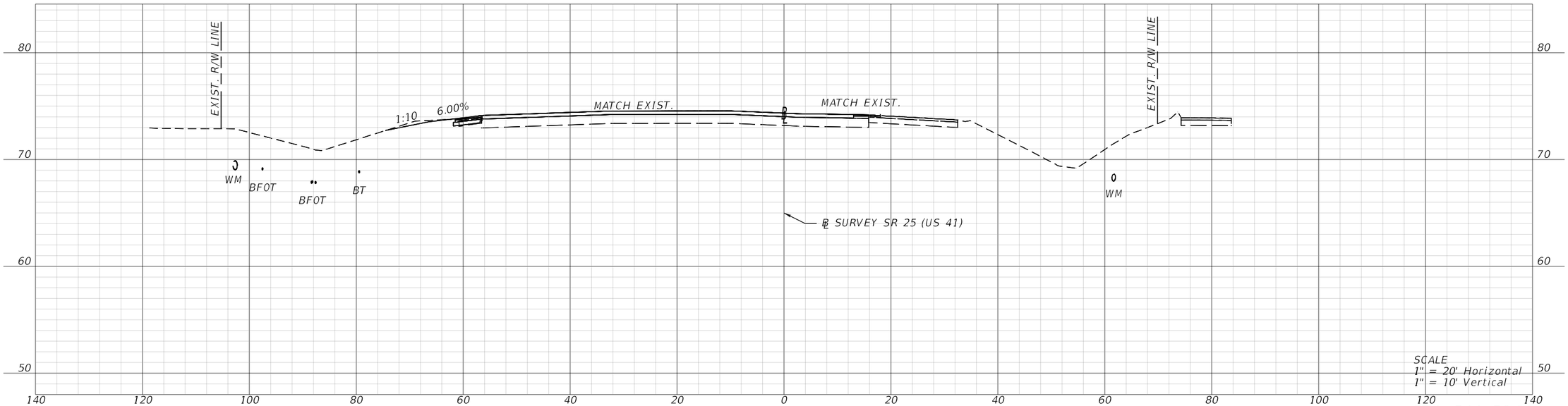
COLUMBIA CO BOCC

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 25	COLUMBIA	445725-5-54-02

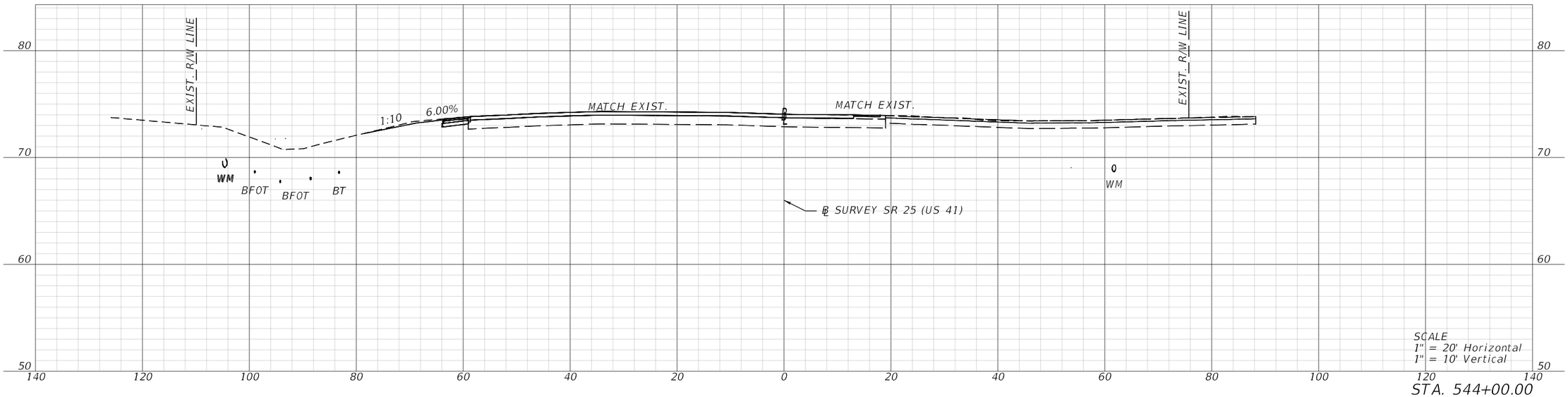
CROSS SECTIONS

SHEET NO. 65

THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.



STA. 544+50.00



STA. 544+00.00

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

BRYON S. WUCZYNSKI, P.E.
LICENSE NUMBER: 64090
OSIRIS 9 CONSULTING, LLC
13241 BARTRAM PARK BLVD STE 1109
JACKSONVILLE, FL 32258

COLUMBIA CO BOCC

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 25	COLUMBIA	445725-5-54-02

CROSS SECTIONS

SHEET NO. 66

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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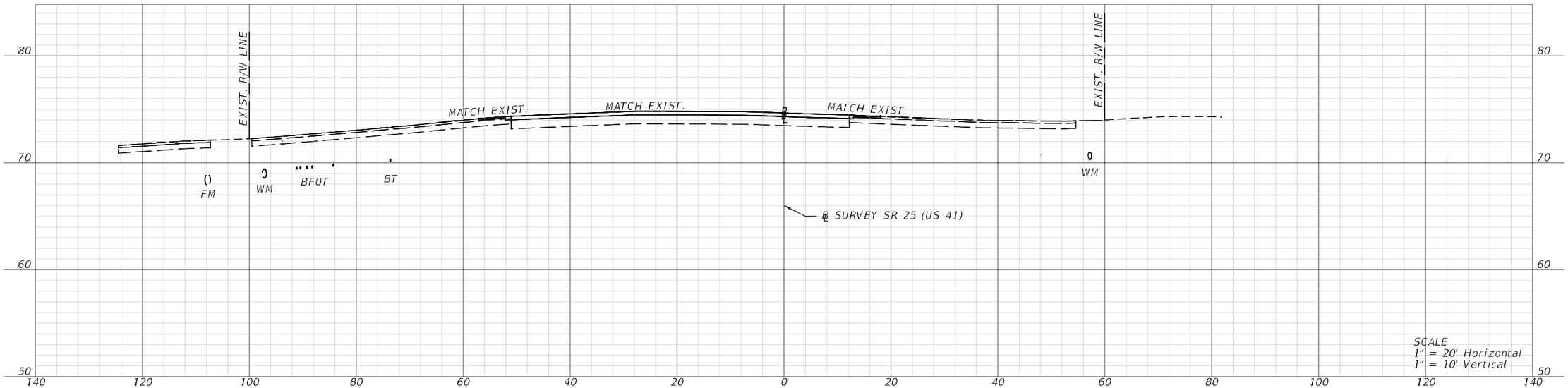
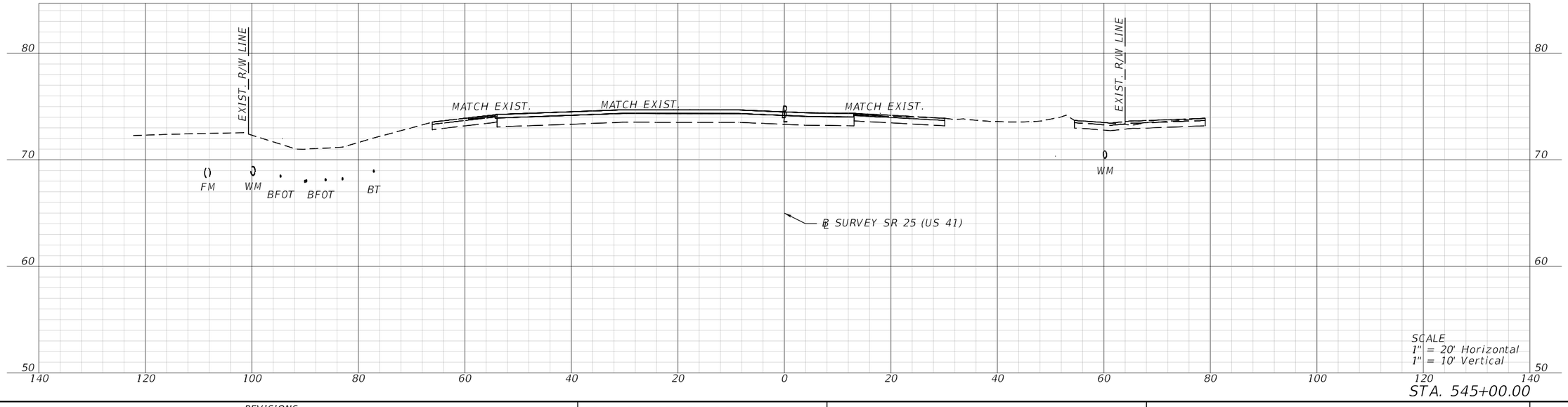


STA. 545+50.00



STA. 545+00.00

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

BRYON S. WUCZYNSKI, P.E.
LICENSE NUMBER: 64090
OSIRIS 9 CONSULTING, LLC
13241 BARTRAM PARK BLVD STE 1109
JACKSONVILLE, FL 32258

COLUMBIA CO BOCC

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 25	COLUMBIA	445725-5-54-02

CROSS SECTIONS

SHEET NO. 67

THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.

T:\WorkSets\Columbia County\44572515201\Roadway\RDXSRD01.dgn : BL_SURVEY_US 41 - 545+00.00 [SHEET]
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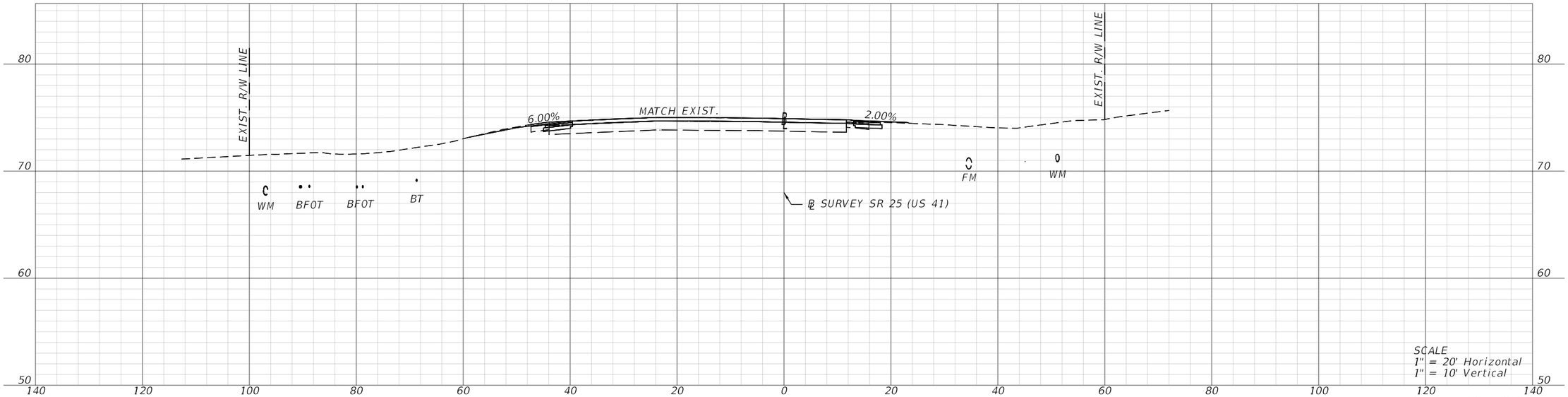

SCALE
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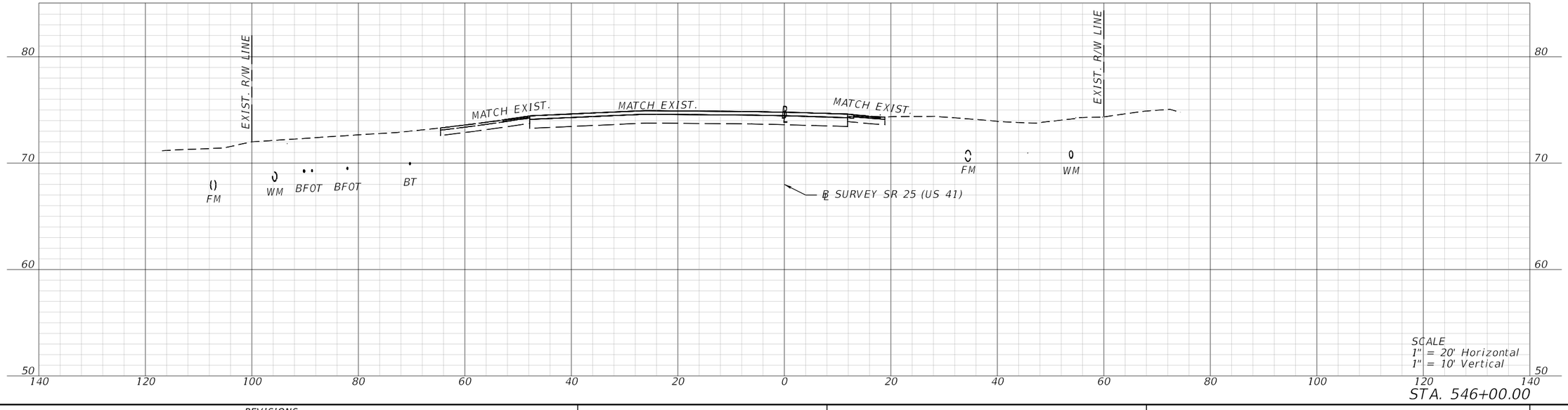
1" = 10' Vertical

STA. 546+50.00



SCALE
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1" = 10' Vertical

STA. 546+00.00

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

BRYON S. WUCZYNSKI, P.E.
LICENSE NUMBER: 64090
OSIRIS 9 CONSULTING, LLC
13241 BARTRAM PARK BLVD STE 1109
JACKSONVILLE, FL 32258

COLUMBIA CO BOCC

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 25	COLUMBIA	445725-5-54-02

CROSS SECTIONS

SHEET NO. 68

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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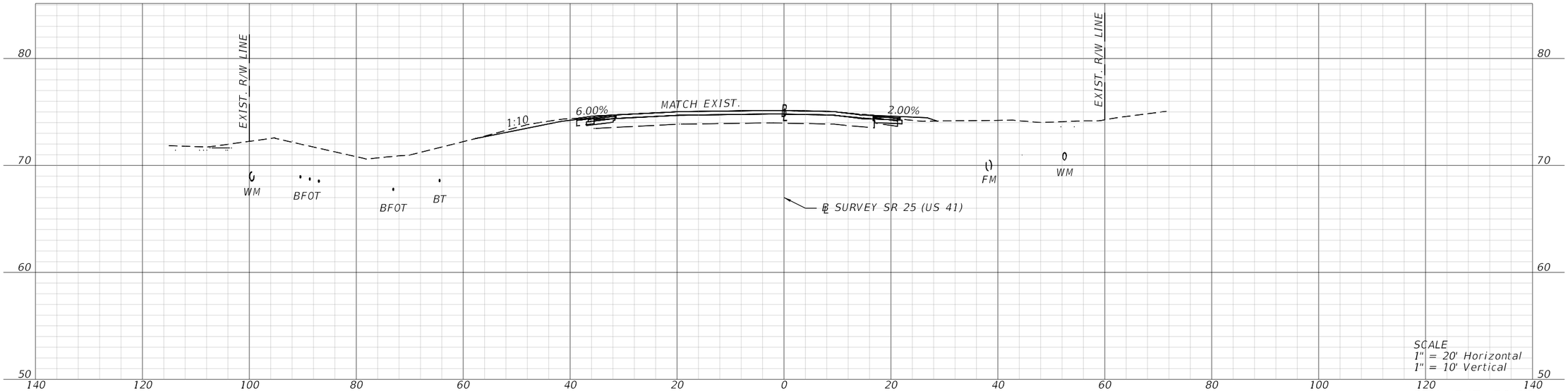

SCALE
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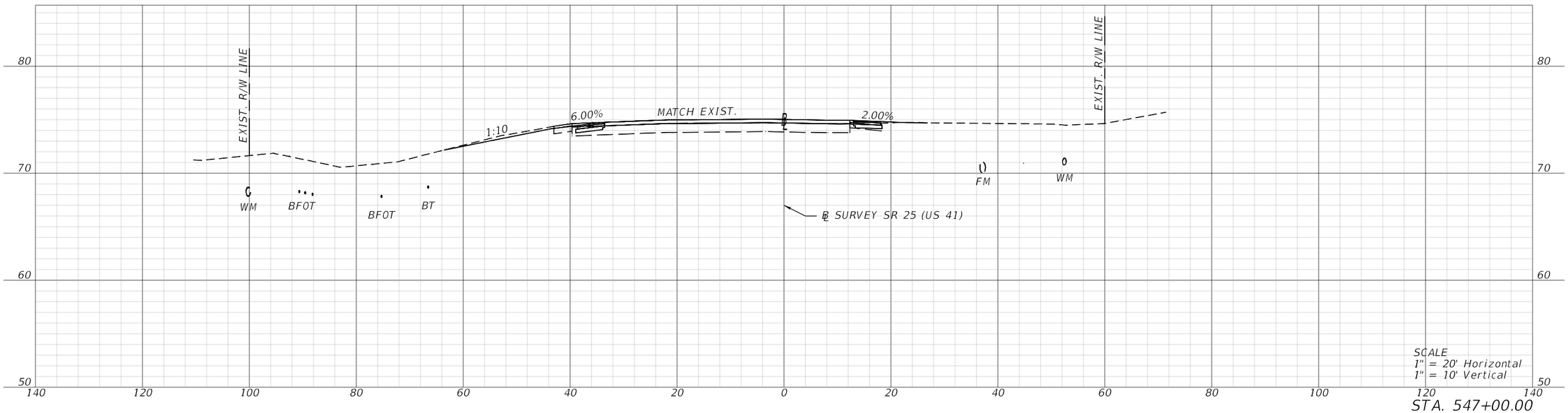
1" = 10' Vertical

STA. 547+50.00



SCALE
1" = 20' Horizontal
1" = 10' Vertical

STA. 547+00.00

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

BRYON S. WUCZYNSKI, P.E.
LICENSE NUMBER: 64090
OSIRIS 9 CONSULTING, LLC
13241 BARTRAM PARK BLVD STE 1109
JACKSONVILLE, FL 32258

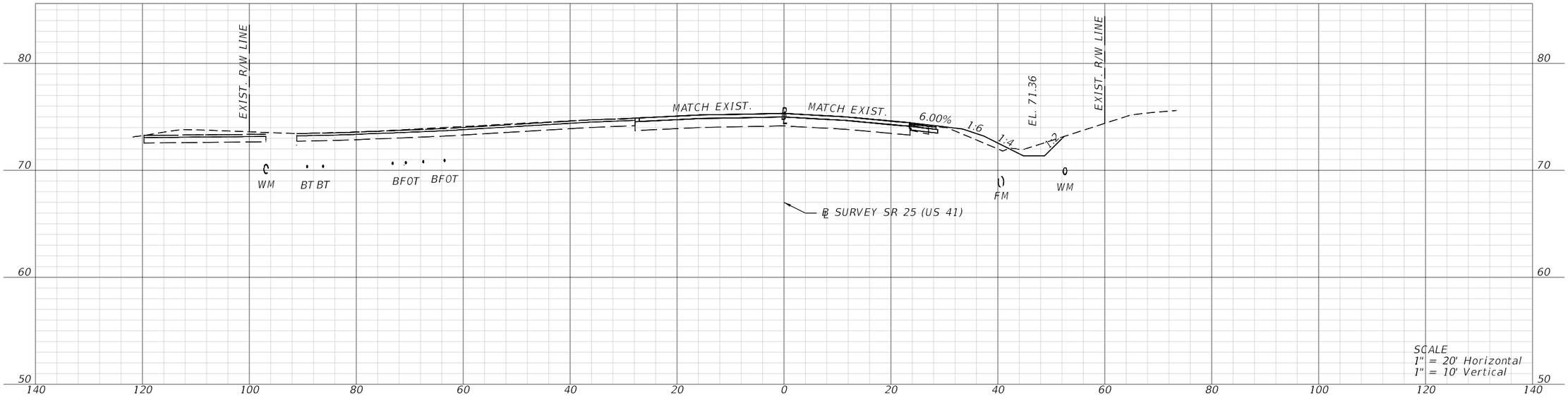
COLUMBIA CO BOCC

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 25	COLUMBIA	445725-5-54-02

CROSS SECTIONS

SHEET NO. 69

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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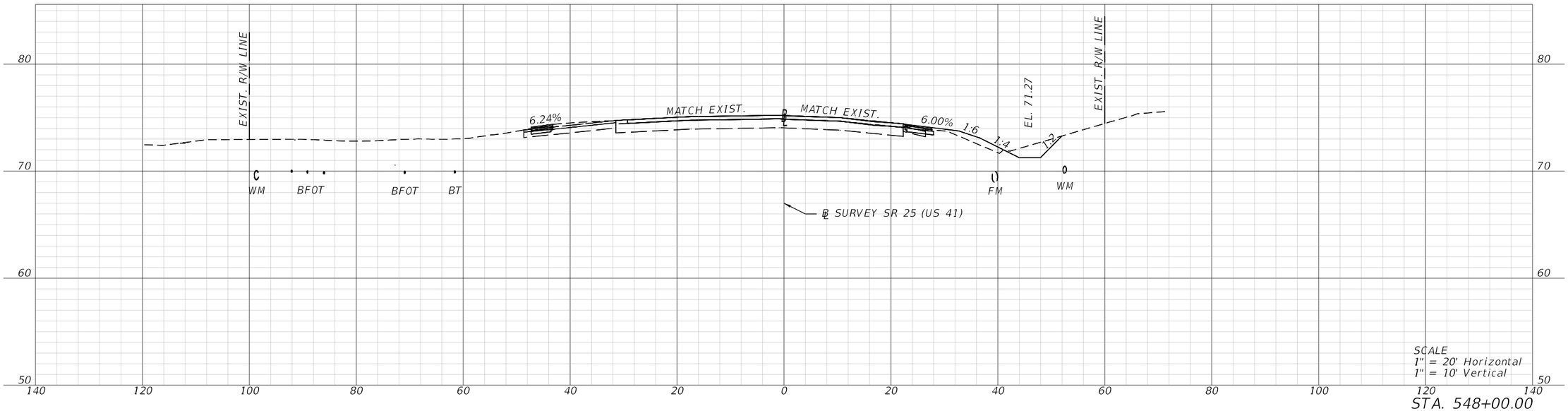


STA. 548+00.00

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

BRYON S. WUCZYNSKI, P.E.
LICENSE NUMBER: 64090
OSIRIS 9 CONSULTING, LLC
13241 BARTRAM PARK BLVD STE 1109
JACKSONVILLE, FL 32258

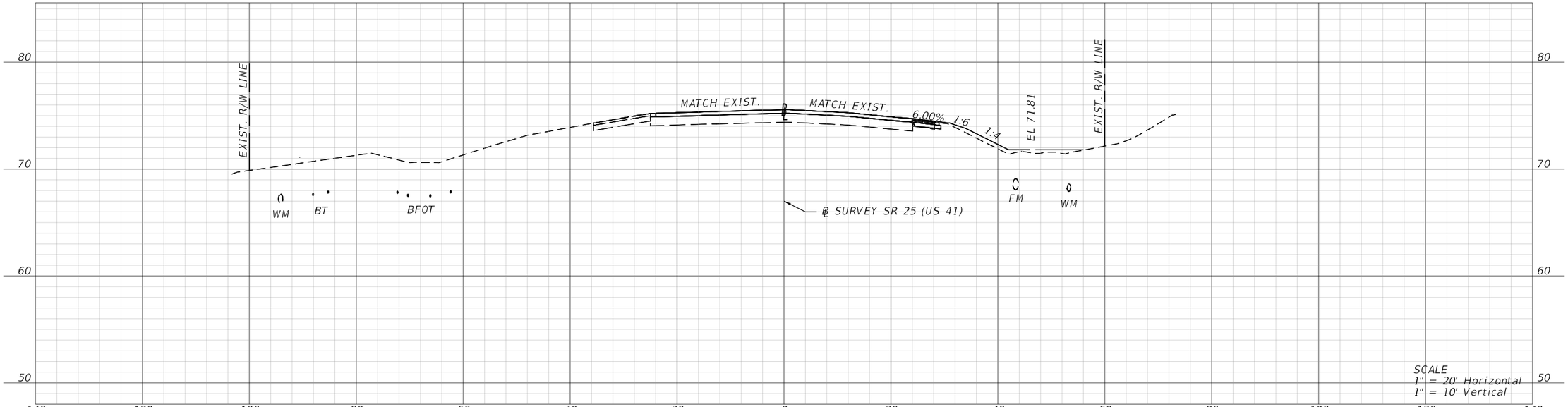
COLUMBIA CO BOCC

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 25	COLUMBIA	445725-5-54-02

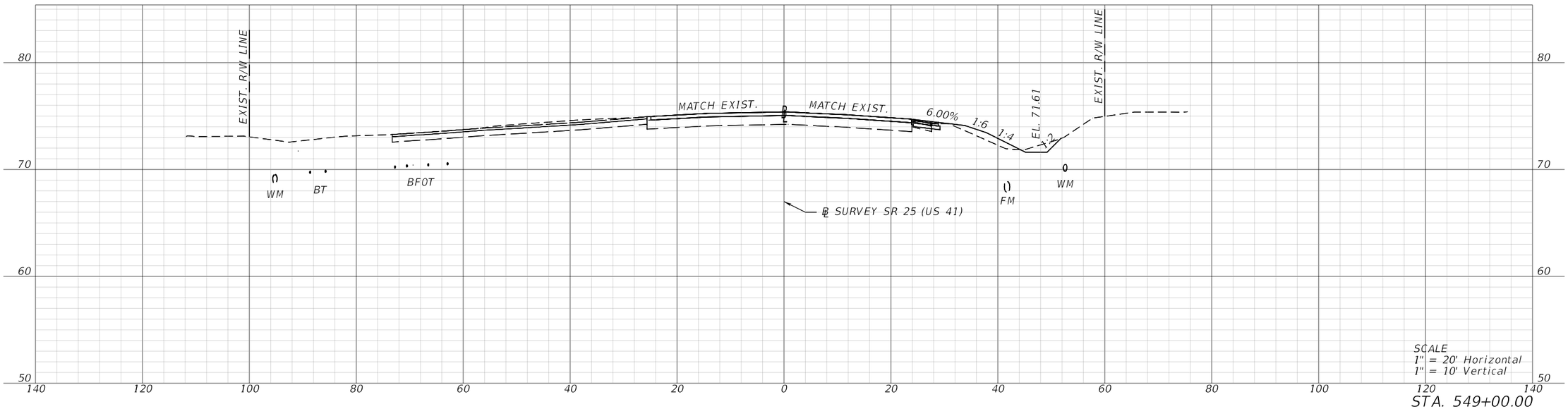
CROSS SECTIONS

SHEET NO. 70

THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.



STA. 549+50.00



STA. 549+00.00

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

BRYON S. WUCZYNSKI, P.E.
LICENSE NUMBER: 64090
OSIRIS 9 CONSULTING, LLC
13241 BARTRAM PARK BLVD STE 1109
JACKSONVILLE, FL 32258

COLUMBIA CO BOCC

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 25	COLUMBIA	445725-5-54-02

CROSS SECTIONS

SHEET NO. 71

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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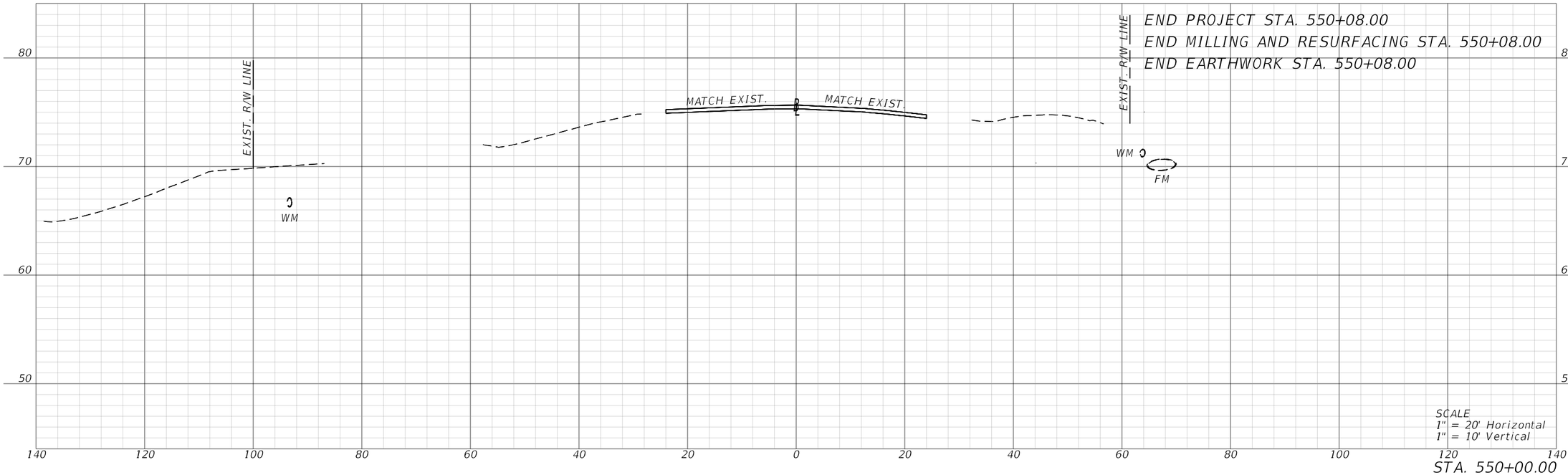

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

BRYON S. WUCZYNSKI, P.E.
LICENSE NUMBER: 64090
OSIRIS 9 CONSULTING, LLC
13241 BARTRAM PARK BLVD STE 1109
JACKSONVILLE, FL 32258

COLUMBIA CO BOCC

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 25	COLUMBIA	445725-5-54-02

CROSS SECTIONS

SHEET NO. 72

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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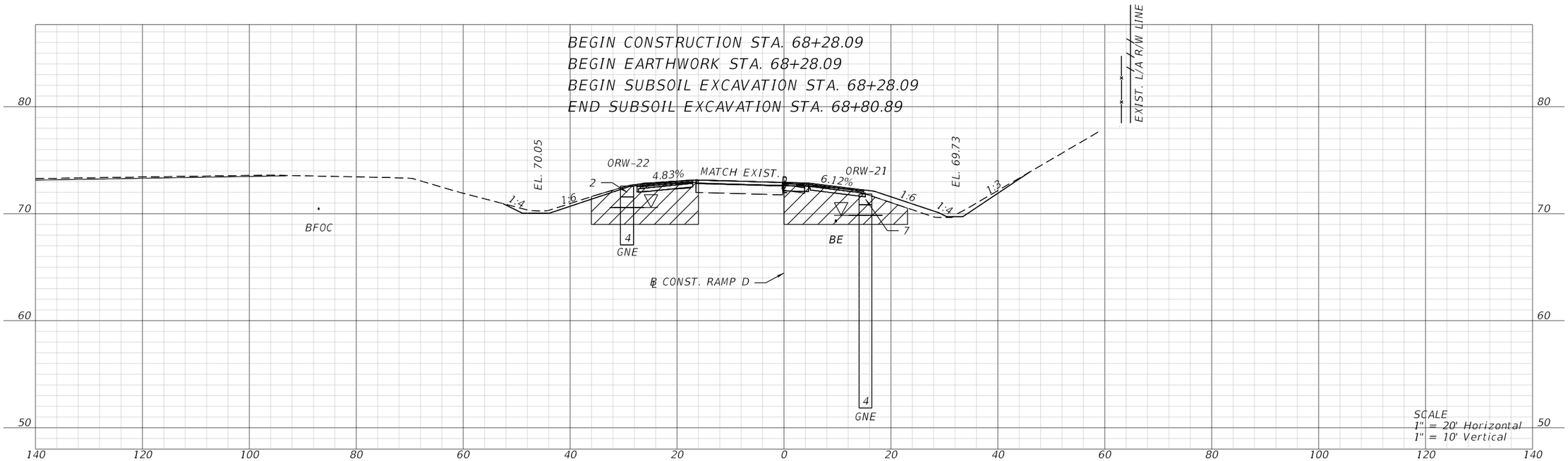
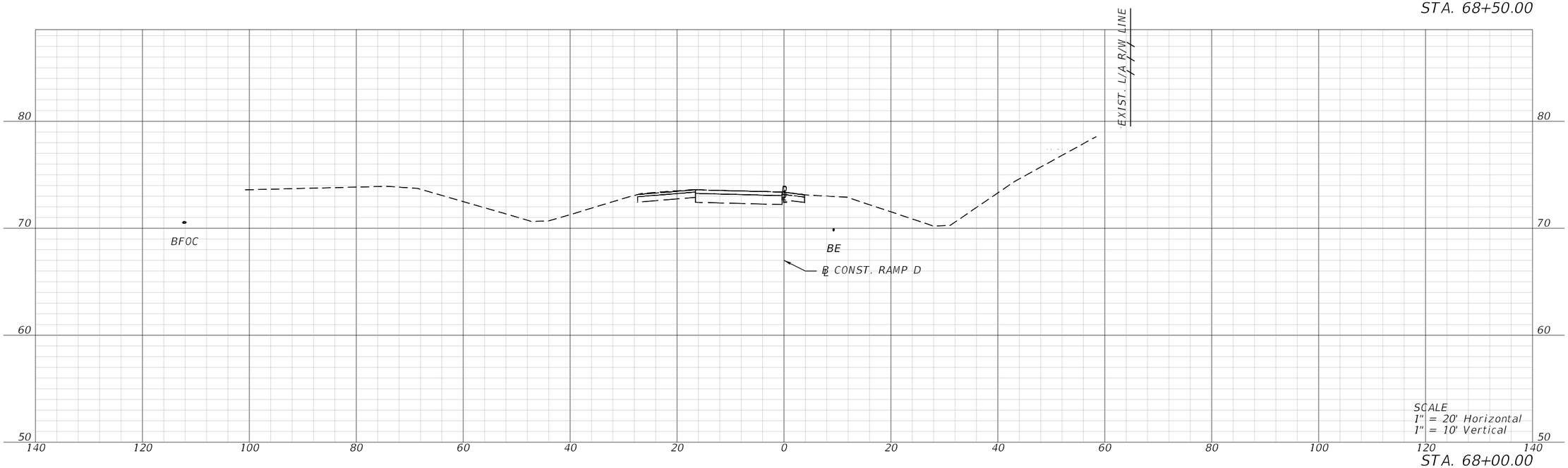


STA. 68+50.00



STA. 68+00.00

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

BRYON S. WUCZYNSKI, P.E.
LICENSE NUMBER: 64090
OSIRIS 9 CONSULTING, LLC
13241 BARTRAM PARK BLVD STE 1109
JACKSONVILLE, FL 32258

COLUMBIA CO BOCC

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 25	COLUMBIA	445725-5-54-02

CROSS SECTIONS

SHEET NO. 73

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T:\WorkSets\Columbia County\44572515201\Roadway\RDXSRD01.dgn : BL_CONST_RAMP_D - 68+00.00 [SHEET]
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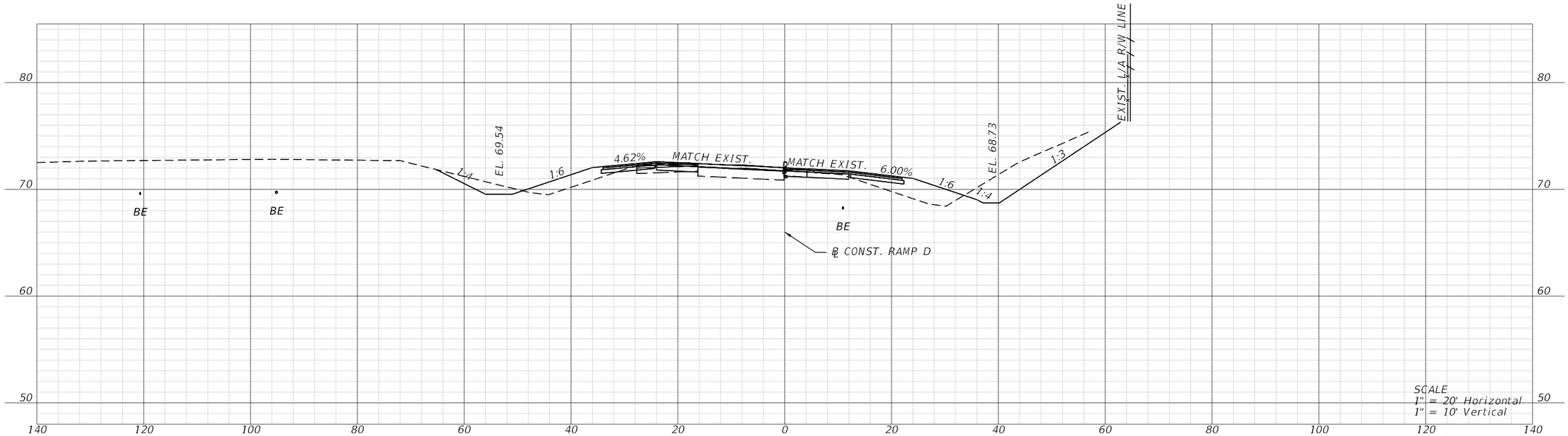

STA. 69+50.00

SCALE
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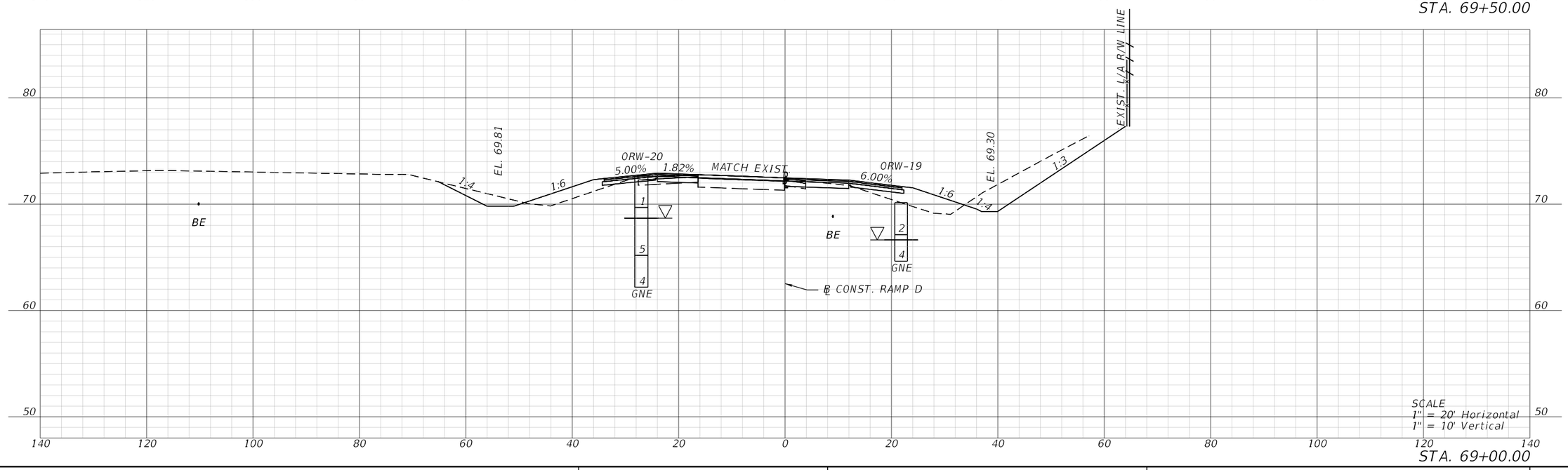

SCALE
1" = 20' Horizontal
1" = 10' Vertical

STA. 69+00.00

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

BRYON S. WUCZYNSKI, P.E.
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13241 BARTRAM PARK BLVD STE 1109
JACKSONVILLE, FL 32258

COLUMBIA CO BOCC

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 25	COLUMBIA	445725-5-54-02

CROSS SECTIONS

SHEET NO. 74

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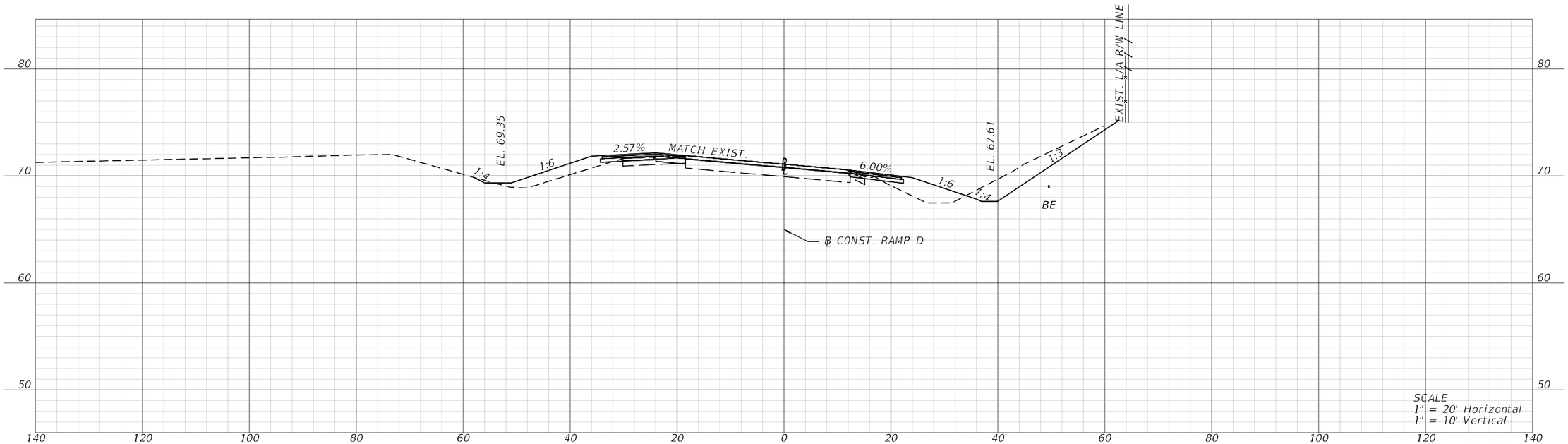
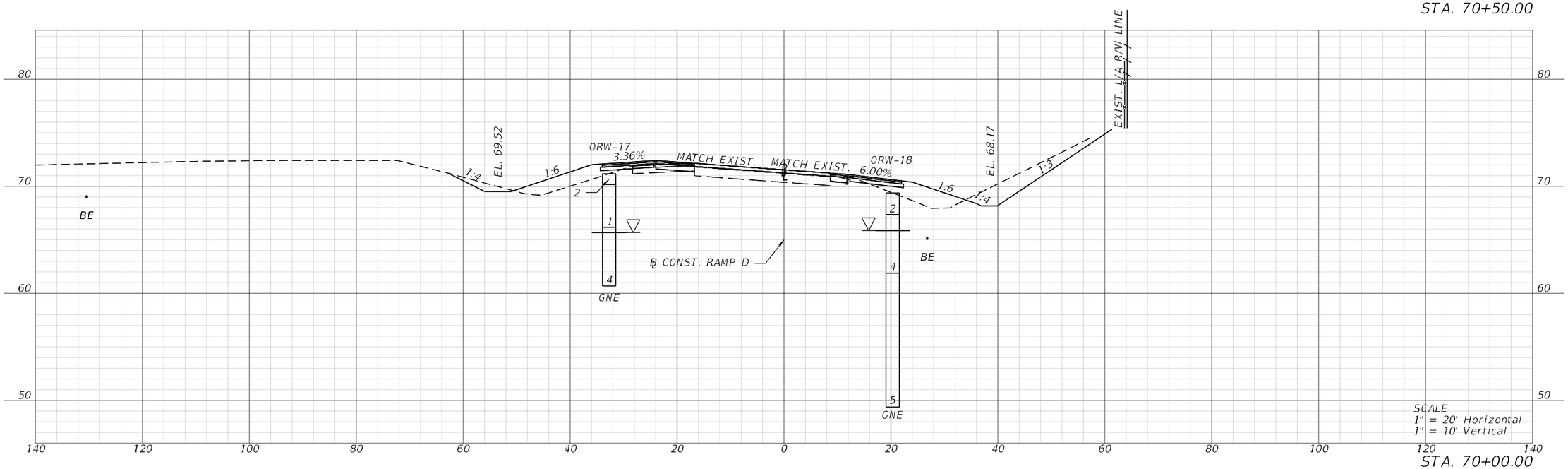




REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

BRYON S. WUCZYNSKI, P.E.
LICENSE NUMBER: 64090
OSIRIS 9 CONSULTING, LLC
13241 BARTRAM PARK BLVD STE 1109
JACKSONVILLE, FL 32258

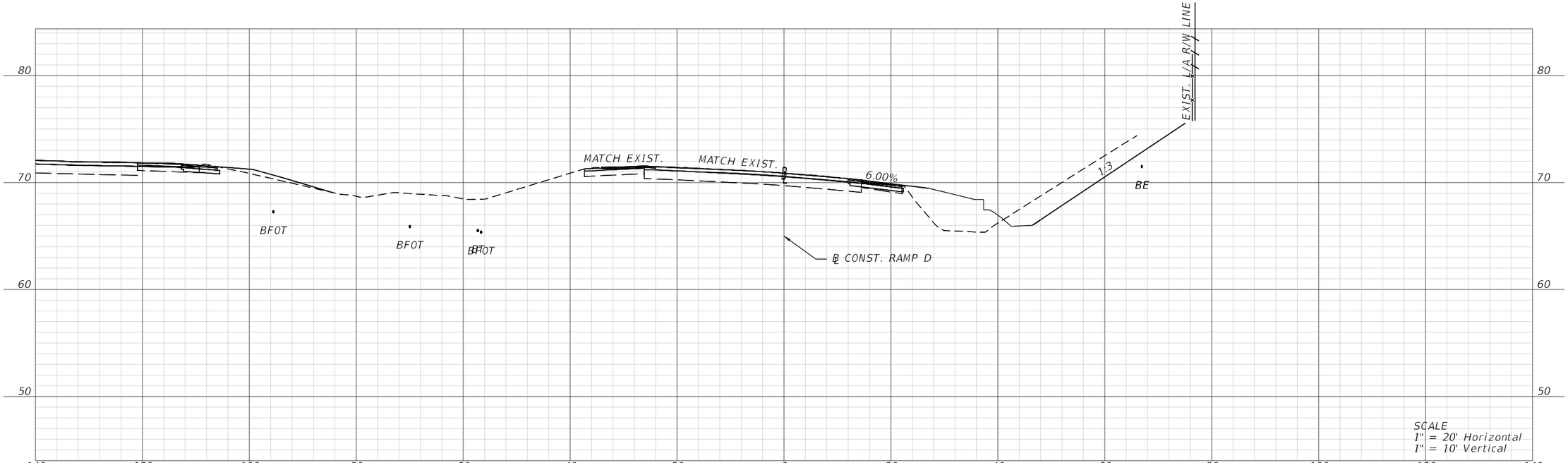
COLUMBIA CO BOCC

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 25	COLUMBIA	445725-5-54-02

CROSS SECTIONS

SHEET NO. 75

THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.



STA. 71+50.00

SCALE
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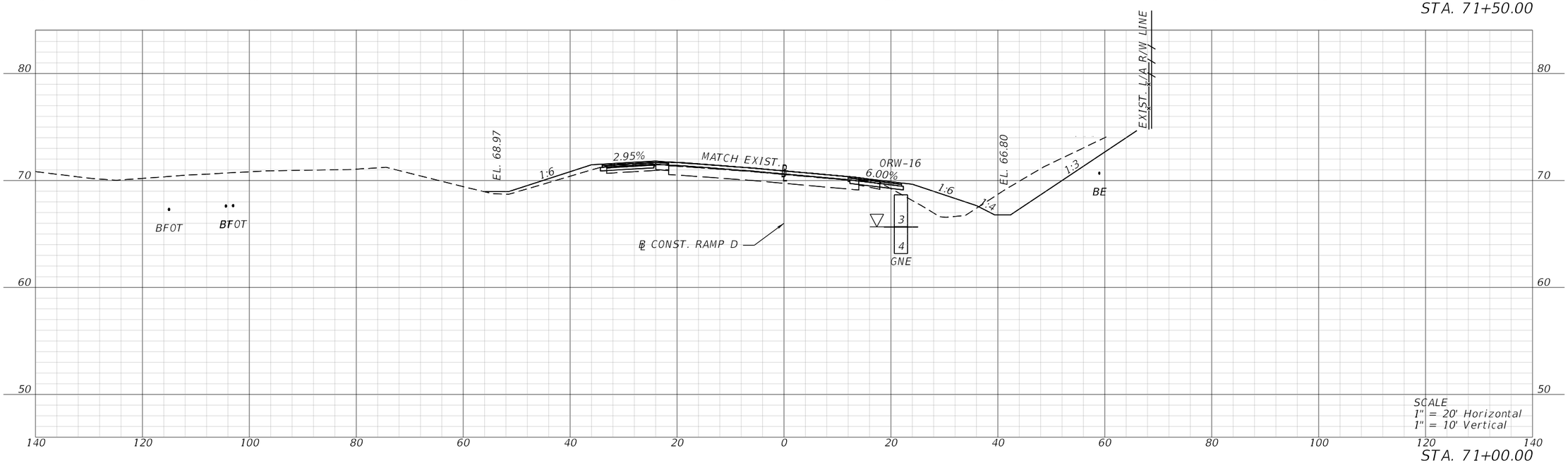
1" = 10' Vertical



STA. 71+00.00

SCALE
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1" = 10' Vertical

REVISIONS			
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ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 25	COLUMBIA	445725-5-54-02

CROSS SECTIONS

SHEET NO. 76

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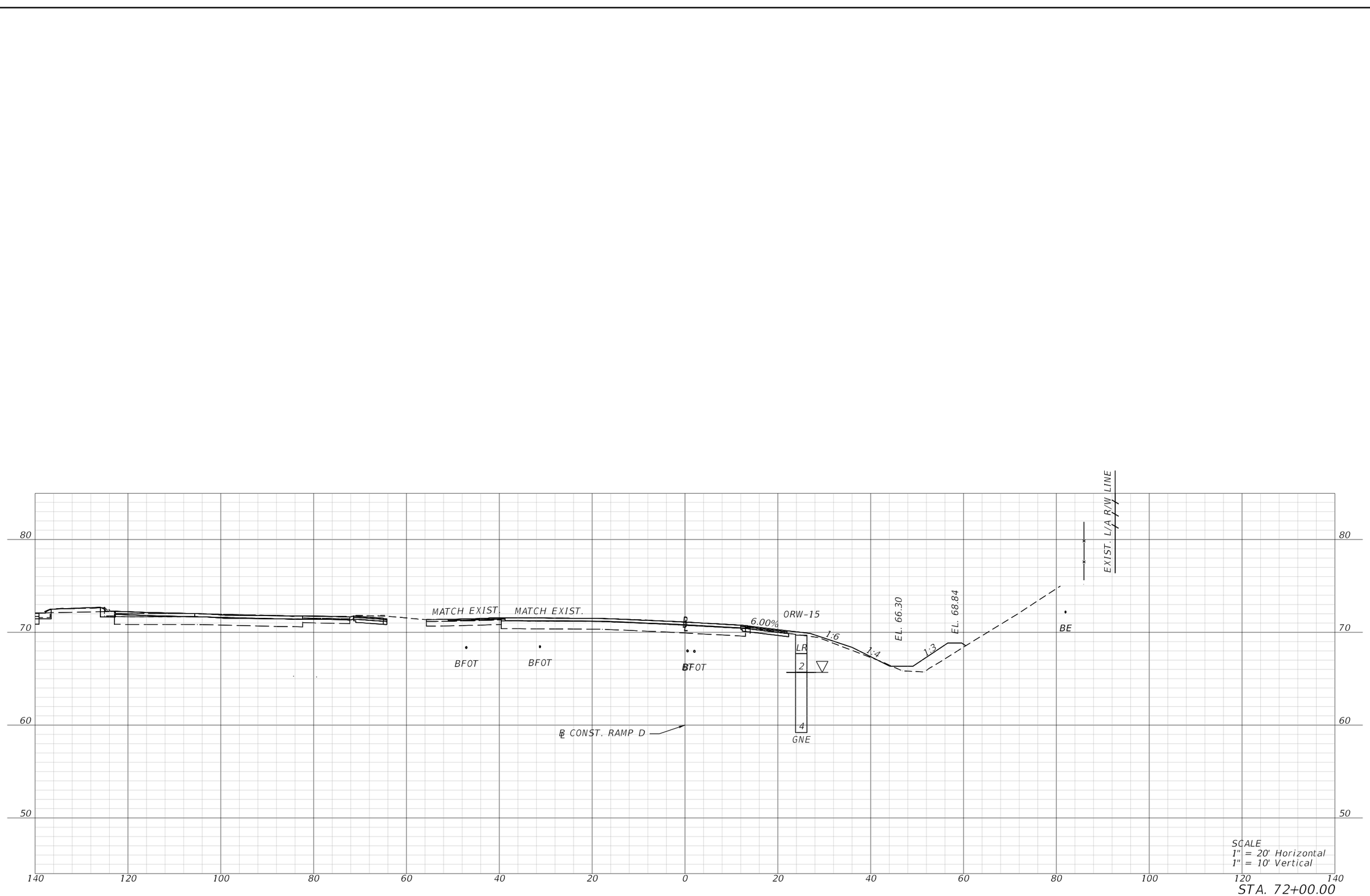

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BRYON S. WUCZYNSKI, P.E.
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OSIRIS 9 CONSULTING, LLC
13241 BARTRAM PARK BLVD STE 1109
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COLUMBIA CO BOCC

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SR 25	COLUMBIA	445725-5-54-02

CROSS SECTIONS

SHEET NO. 77

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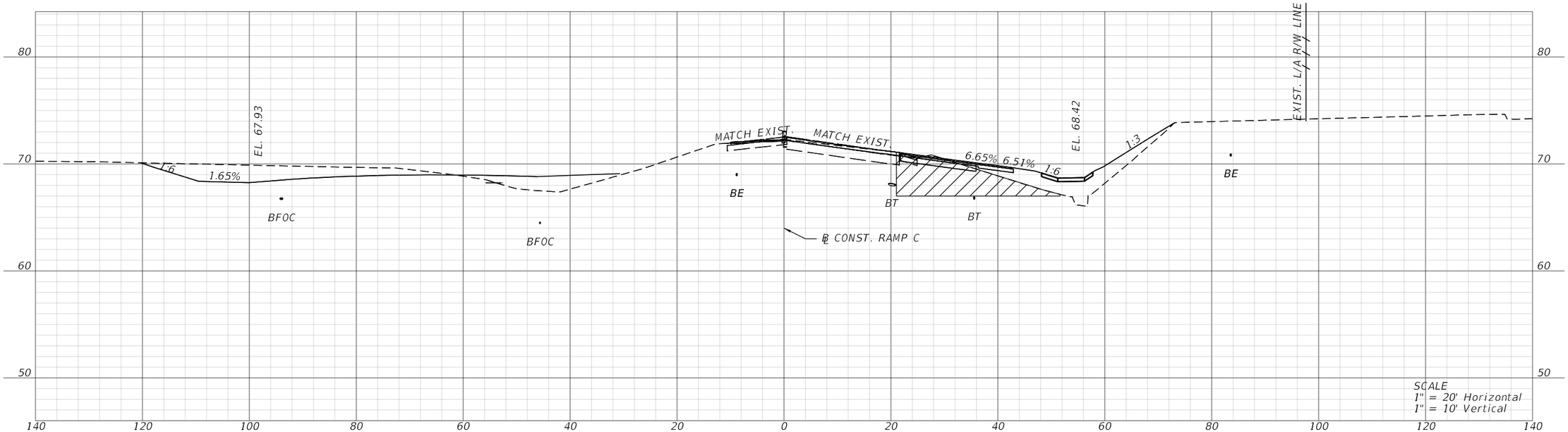

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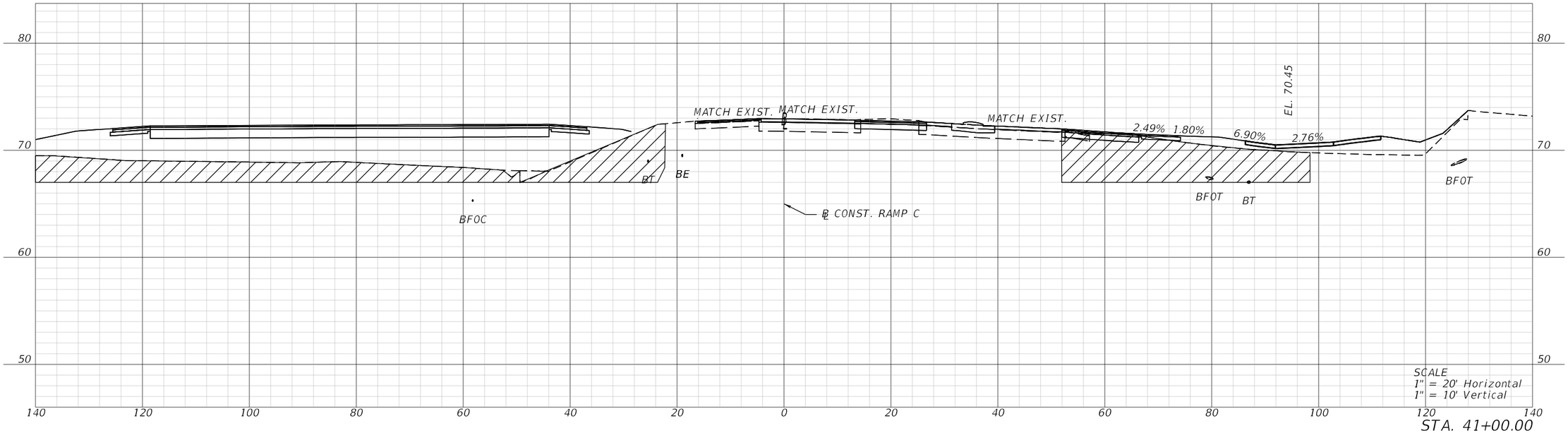

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LICENSE NUMBER: 64090
OSIRIS 9 CONSULTING, LLC
13241 BARTRAM PARK BLVD STE 1109
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COLUMBIA CO BOCC

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 25	COLUMBIA	445725-5-54-02

CROSS SECTIONS

SHEET NO. 78

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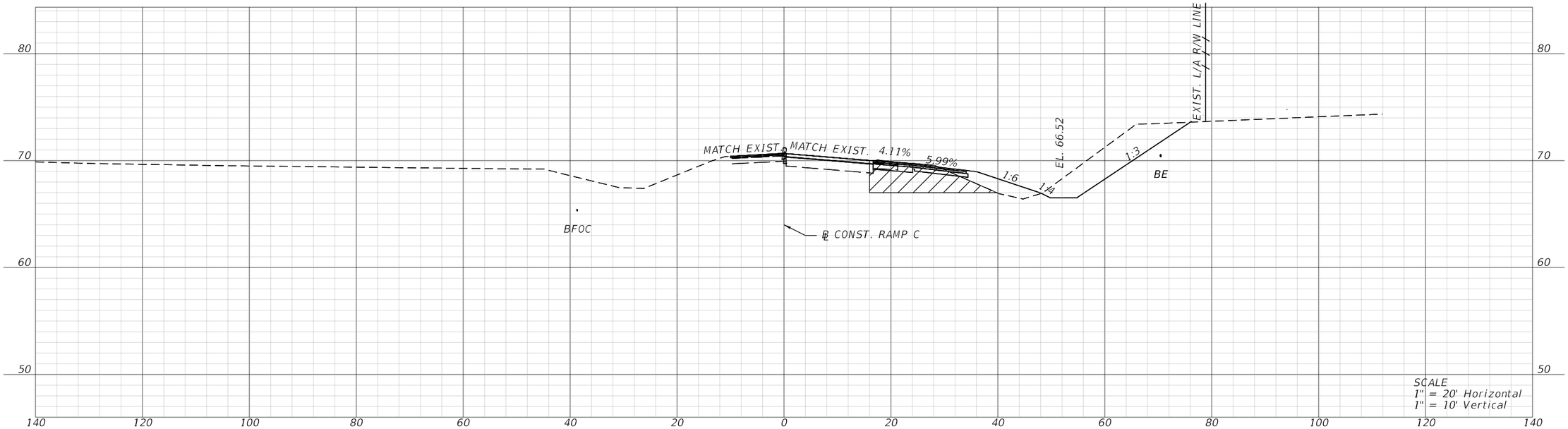

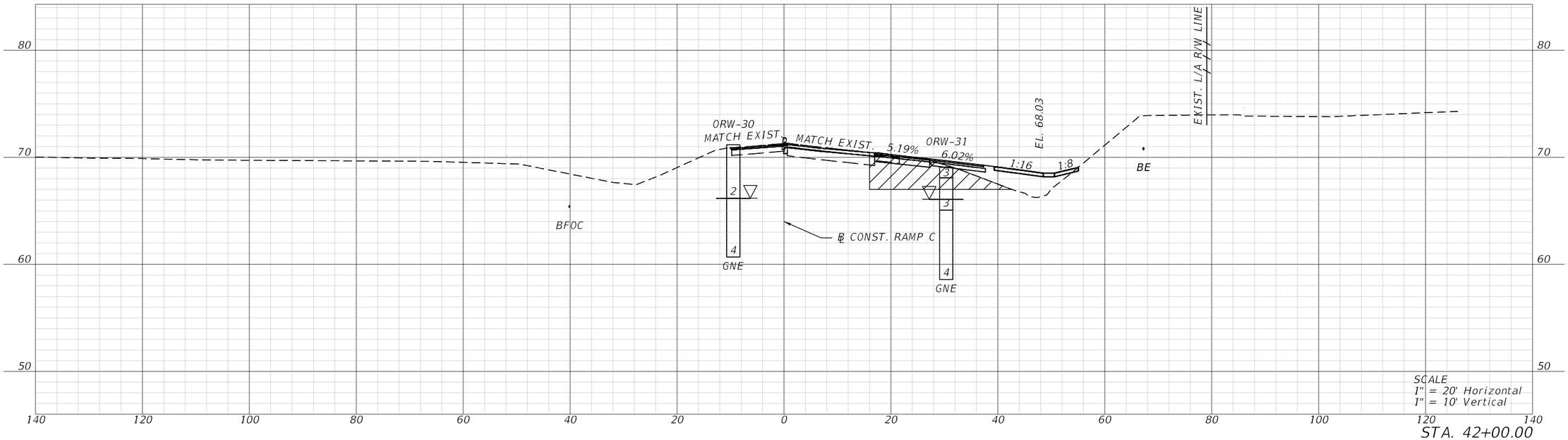

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OSIRIS 9 CONSULTING, LLC
13241 BARTRAM PARK BLVD STE 1109
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COLUMBIA CO BOCC

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 25	COLUMBIA	445725-5-54-02

CROSS SECTIONS

SHEET NO. 79

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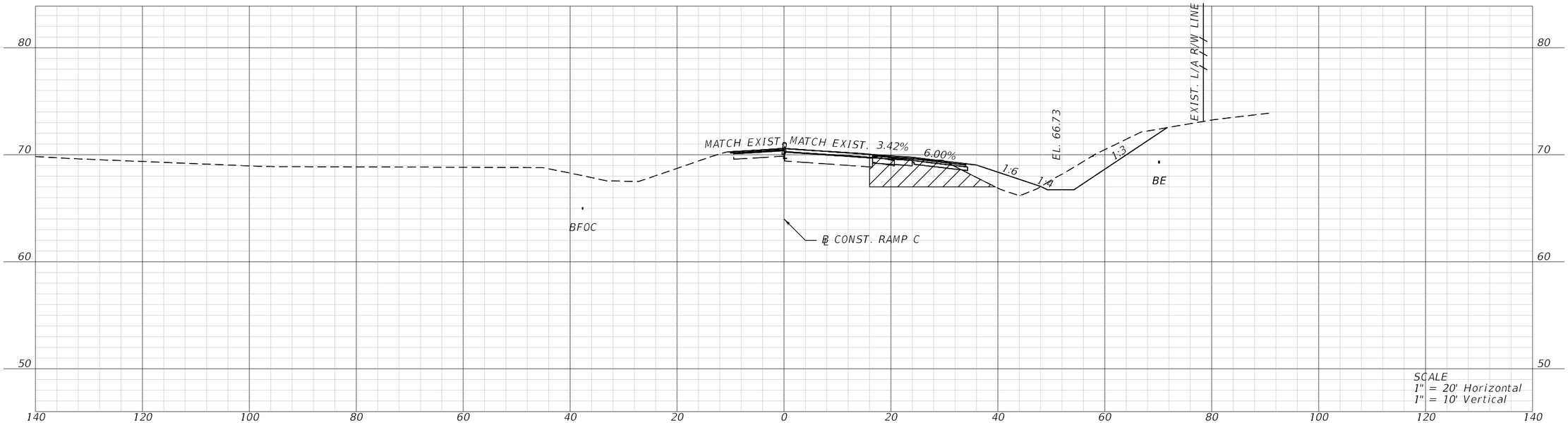

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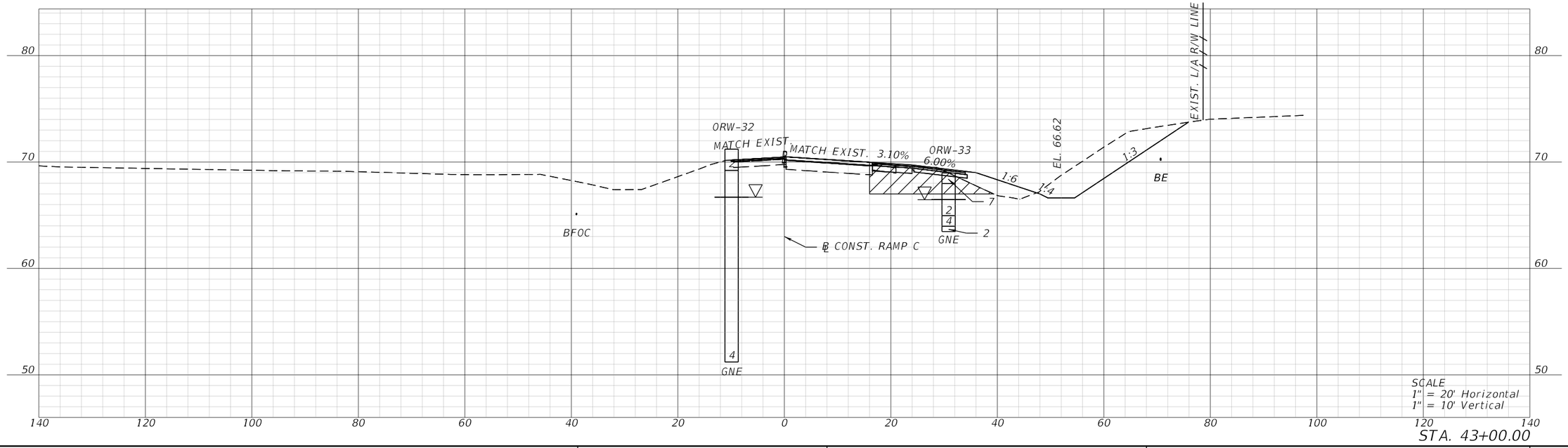

STA. 43+00.00

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SR 25	COLUMBIA	445725-5-54-02

CROSS SECTIONS

SHEET NO. 80

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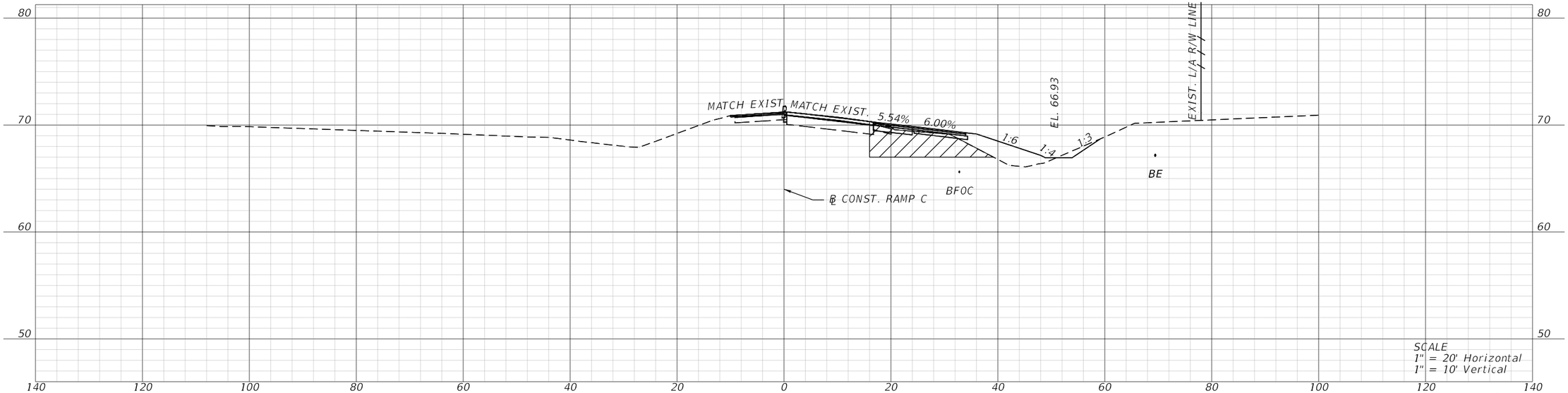

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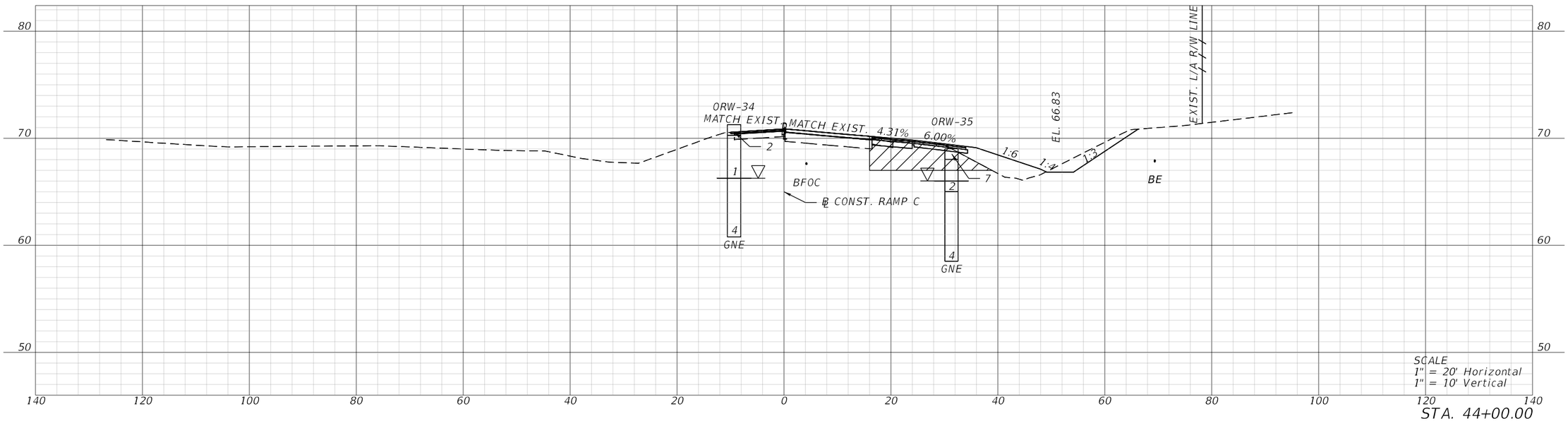

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BRYON S. WUCZYNSKI, P.E.
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OSIRIS 9 CONSULTING, LLC
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COLUMBIA CO BOCC

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 25	COLUMBIA	445725-5-54-02

CROSS SECTIONS

SHEET NO. 81

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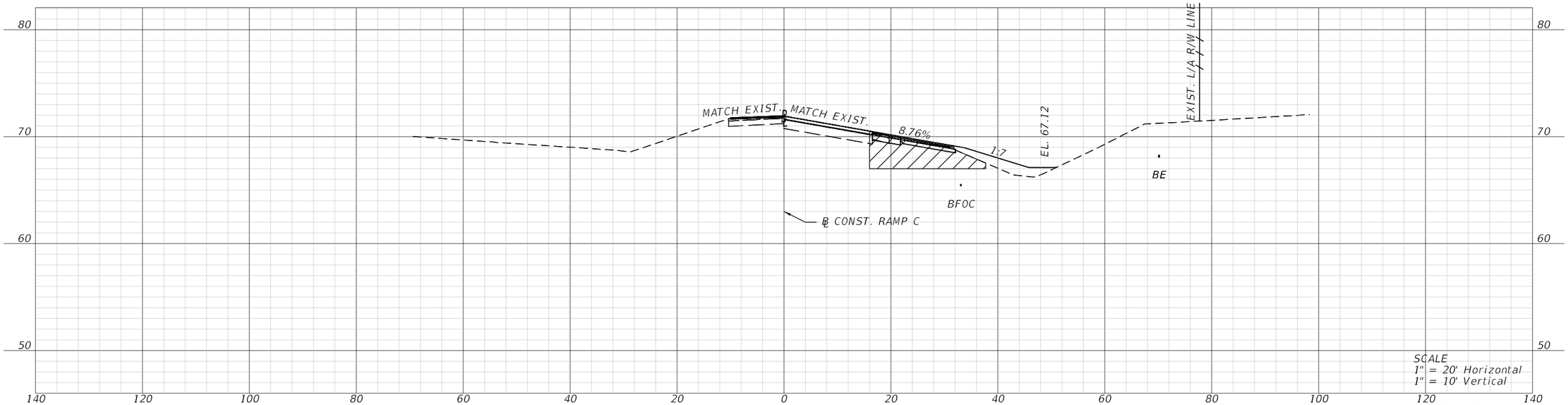

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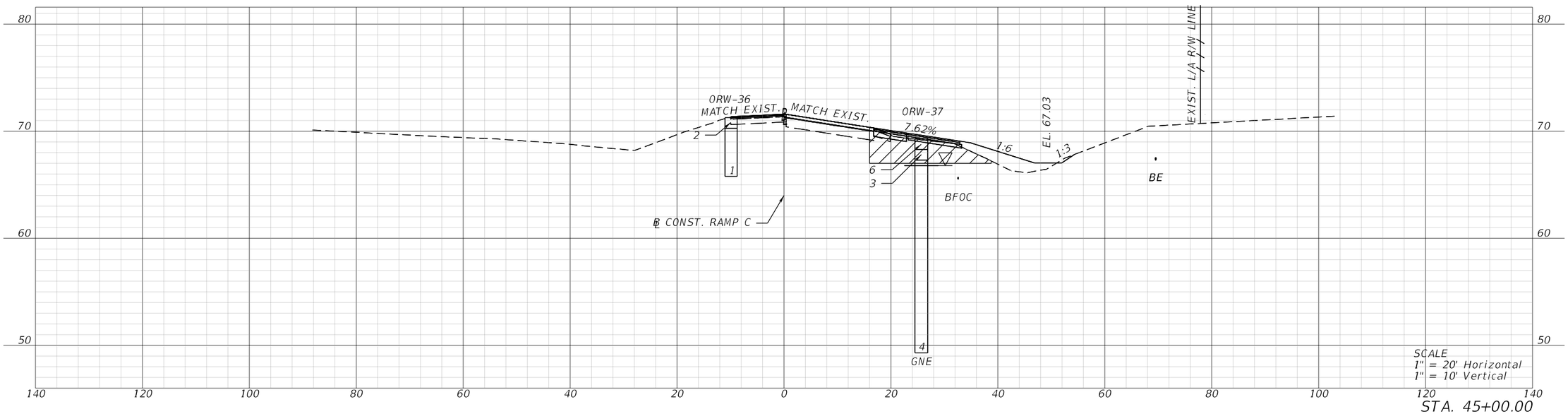

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COLUMBIA CO BOCC

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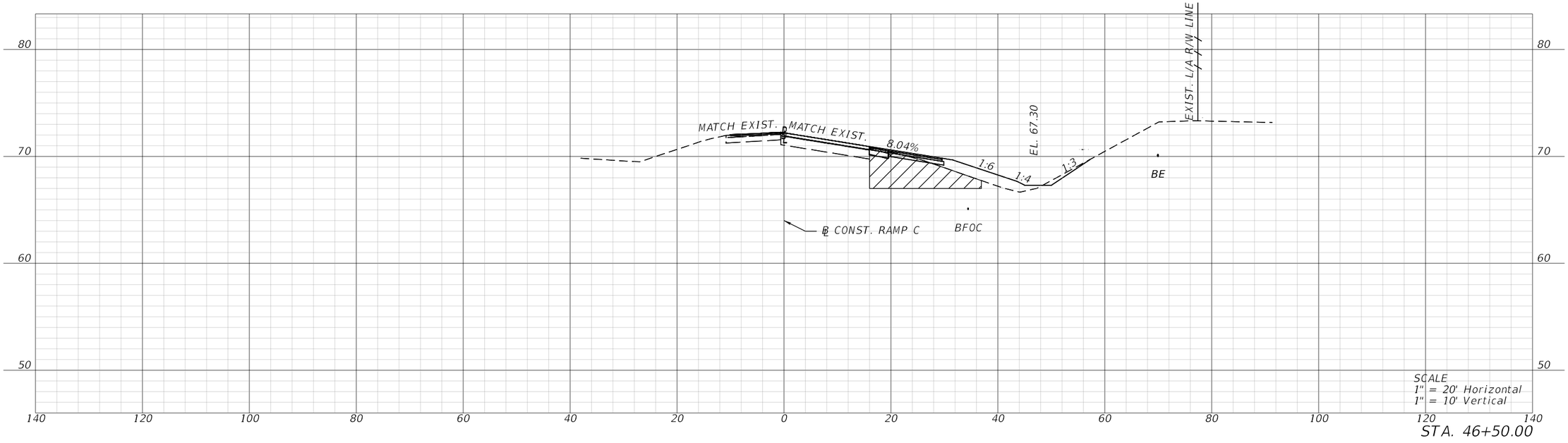
SR 25	COLUMBIA	445725-5-54-02

CROSS SECTIONS

SHEET NO. 82

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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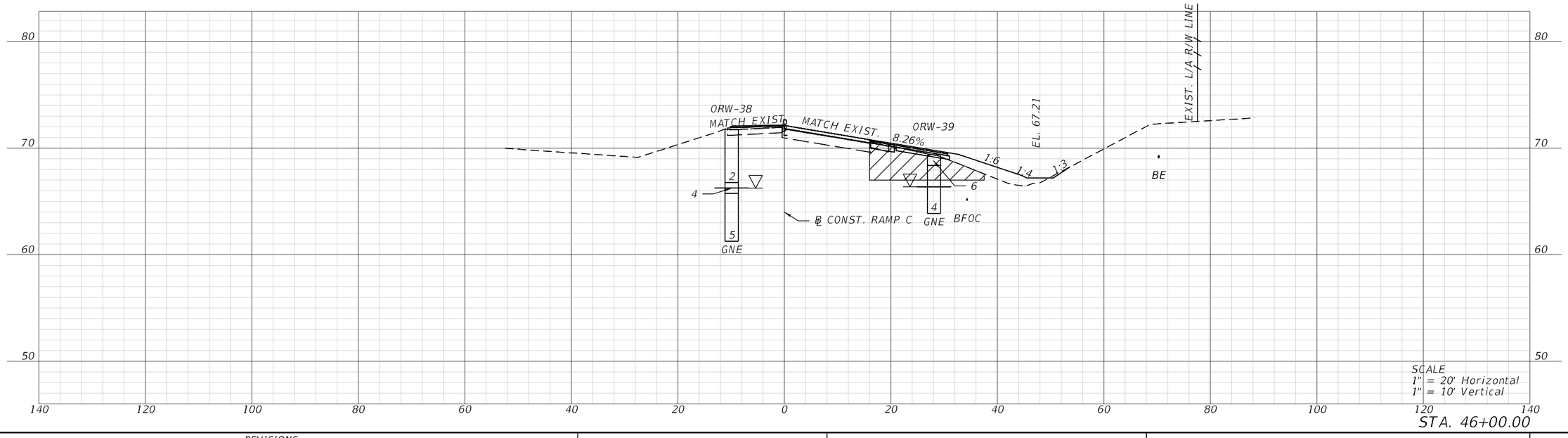

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SCALE
1" = 20' Horizontal
1" = 10' Vertical

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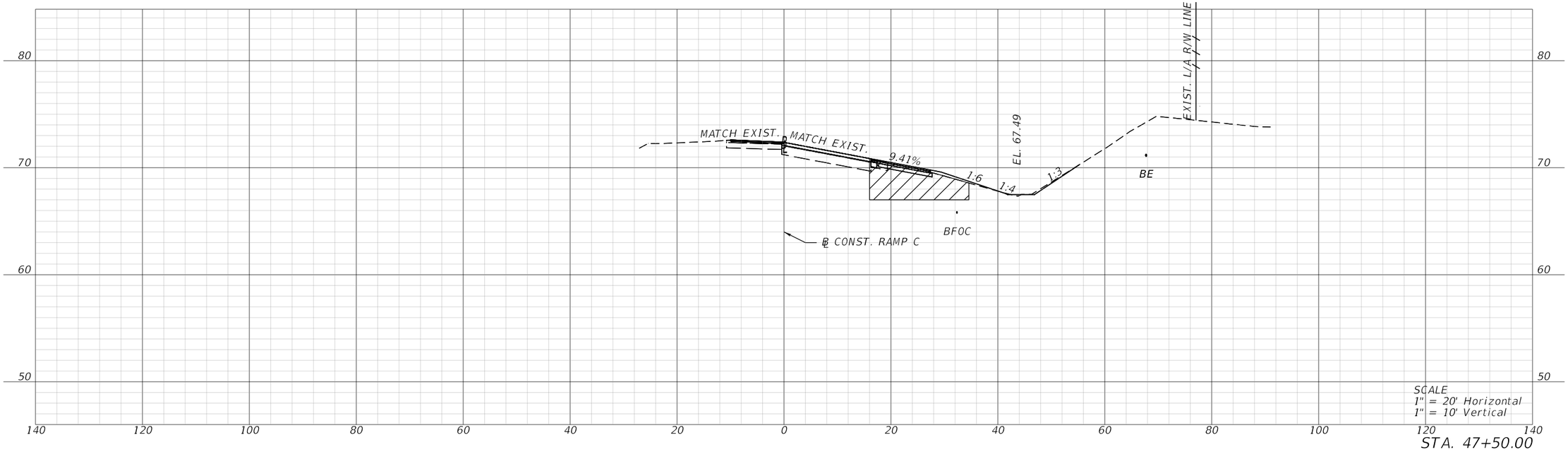
COLUMBIA CO BOCC

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 25	COLUMBIA	445725-5-54-02

CROSS SECTIONS

SHEET NO. 83



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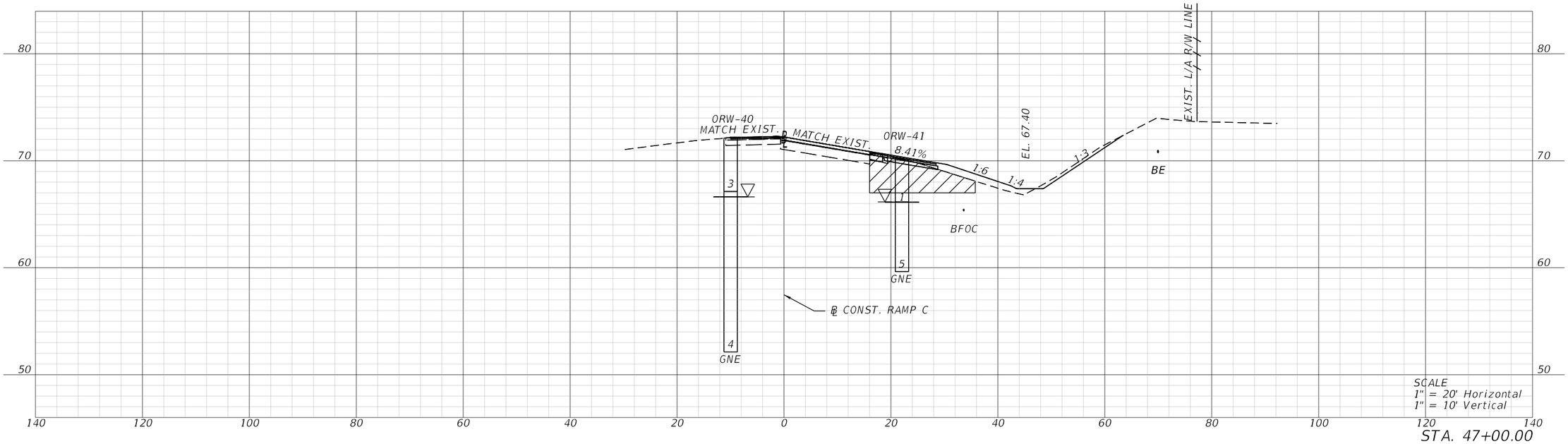

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SCALE
1" = 20' Horizontal
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REVISIONS			
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BRYON S. WUCZYNSKI, P.E.
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13241 BARTRAM PARK BLVD STE 1109
JACKSONVILLE, FL 32258

COLUMBIA CO BOCC

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 25	COLUMBIA	445725-5-54-02

CROSS SECTIONS

SHEET NO. 84

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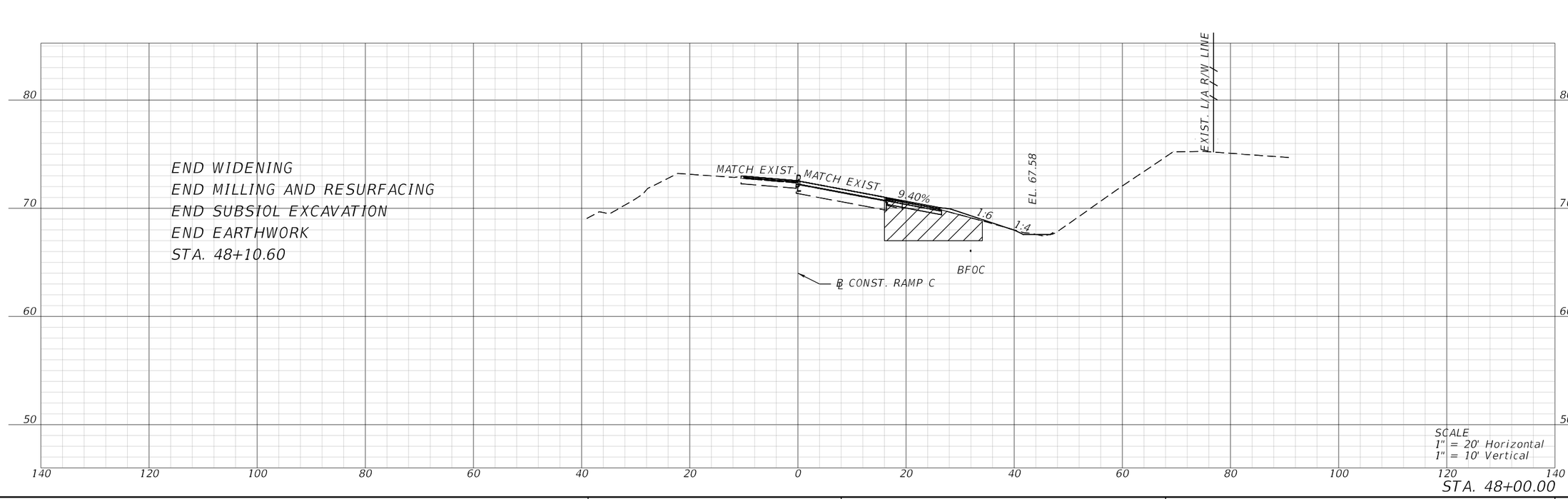

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SR 25	COLUMBIA	445725-5-54-02

CROSS SECTIONS

SHEET NO. 85

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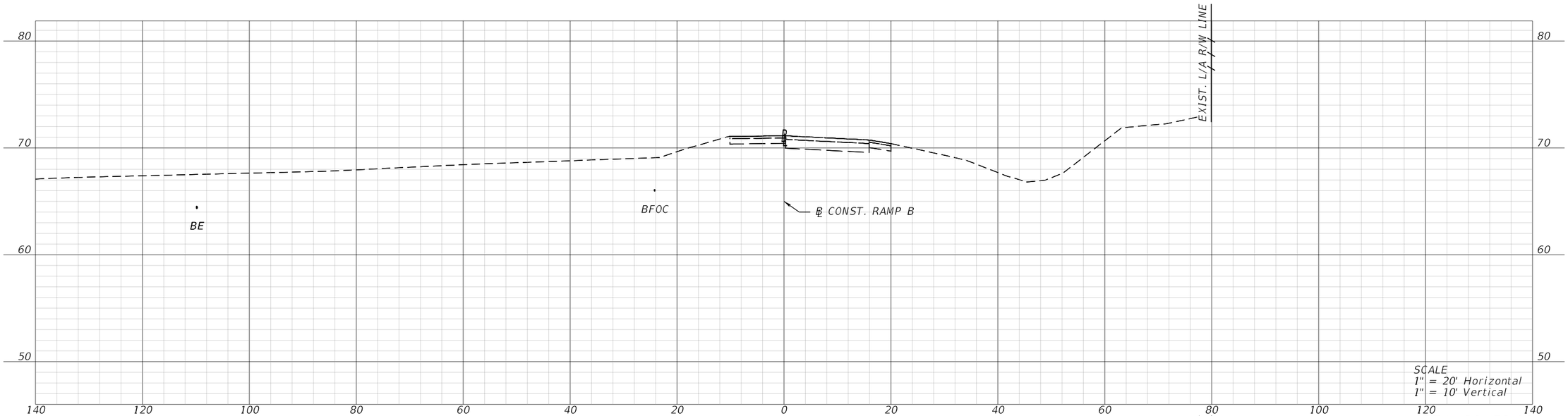

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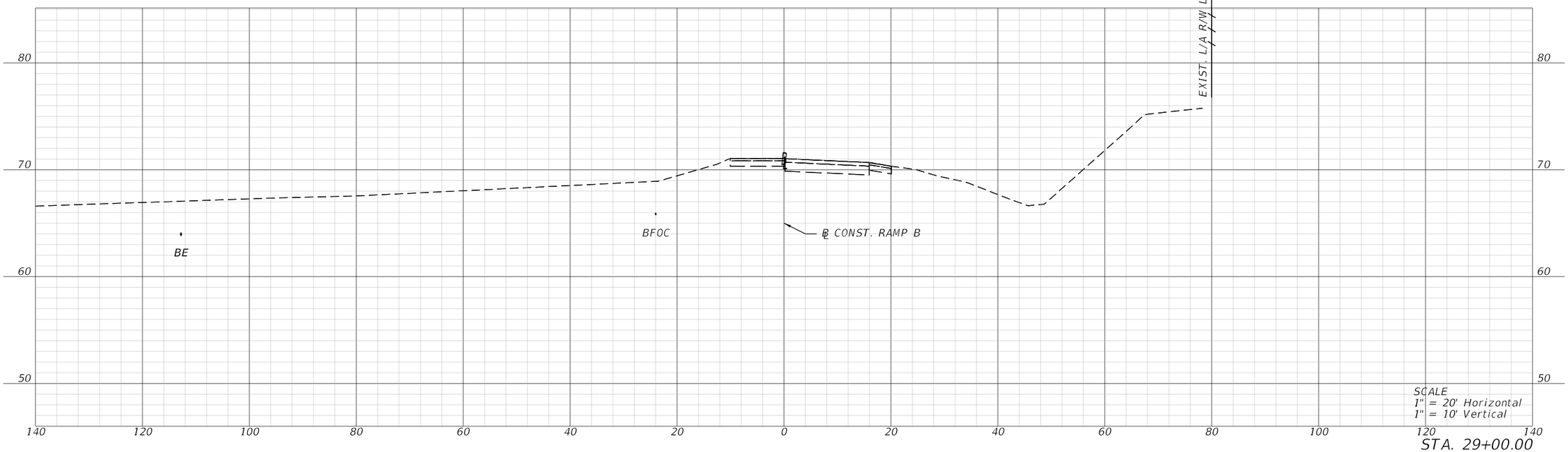

STA. 29+00.00

REVISIONS			
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COLUMBIA CO BOCC

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 25	COLUMBIA	445725-5-54-02

CROSS SECTIONS

SHEET NO. 86

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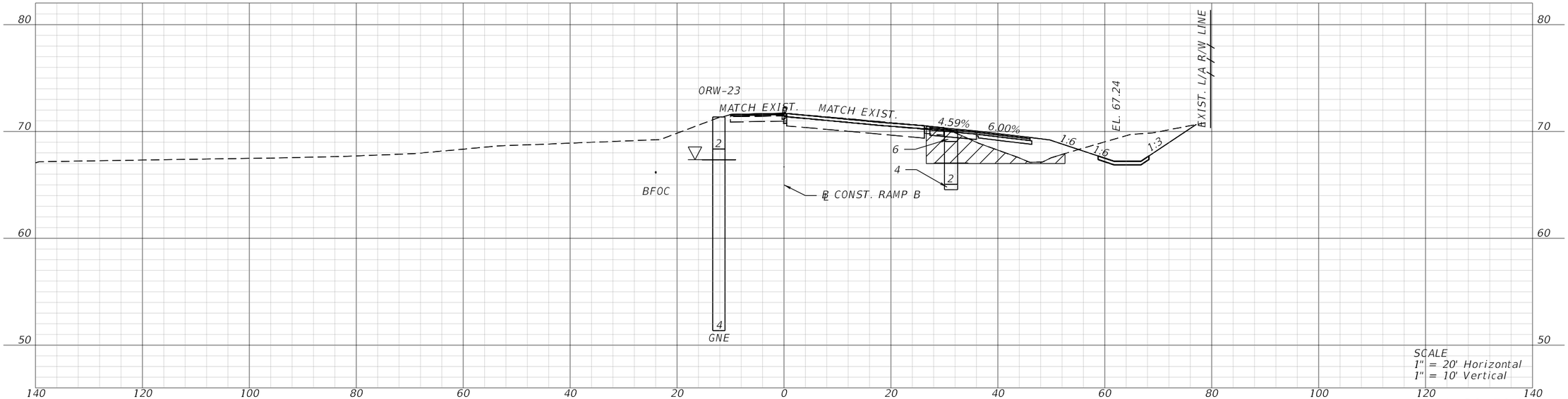

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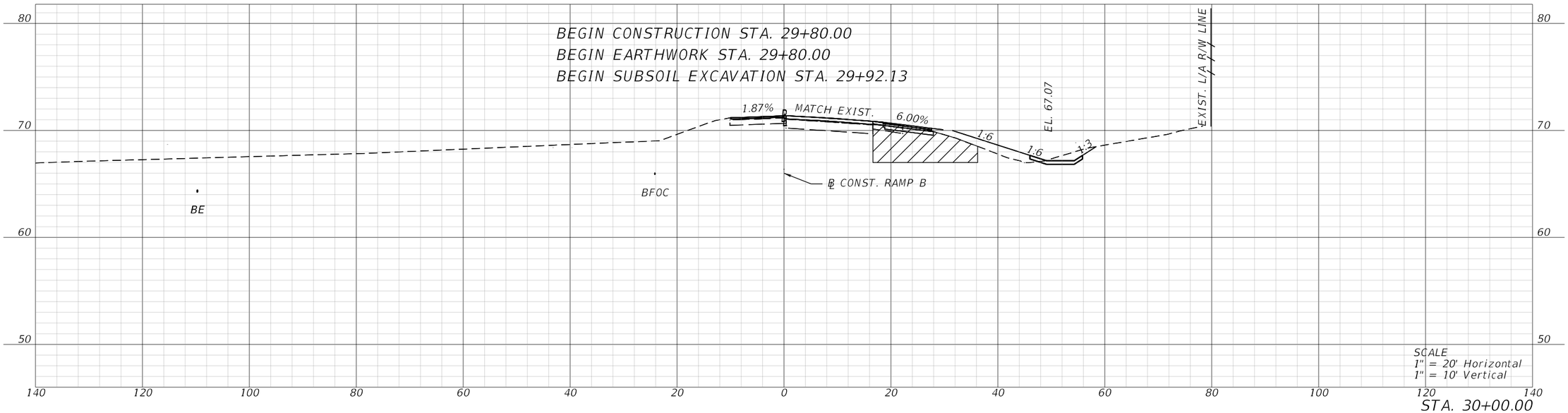

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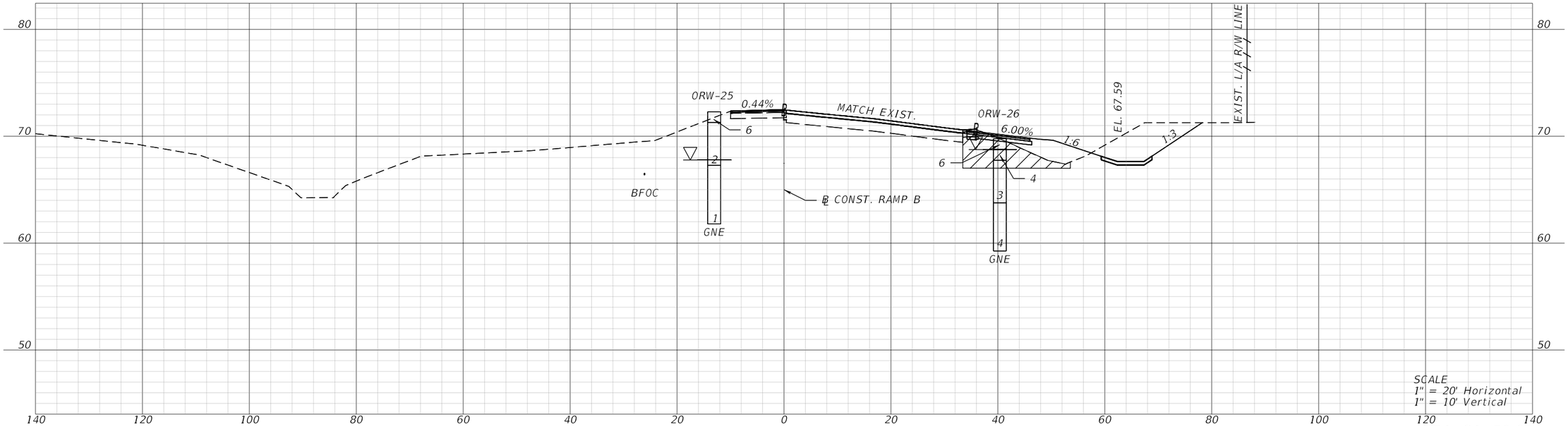
COLUMBIA CO BOCC

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 25	COLUMBIA	445725-5-54-02

CROSS SECTIONS

SHEET NO. 87



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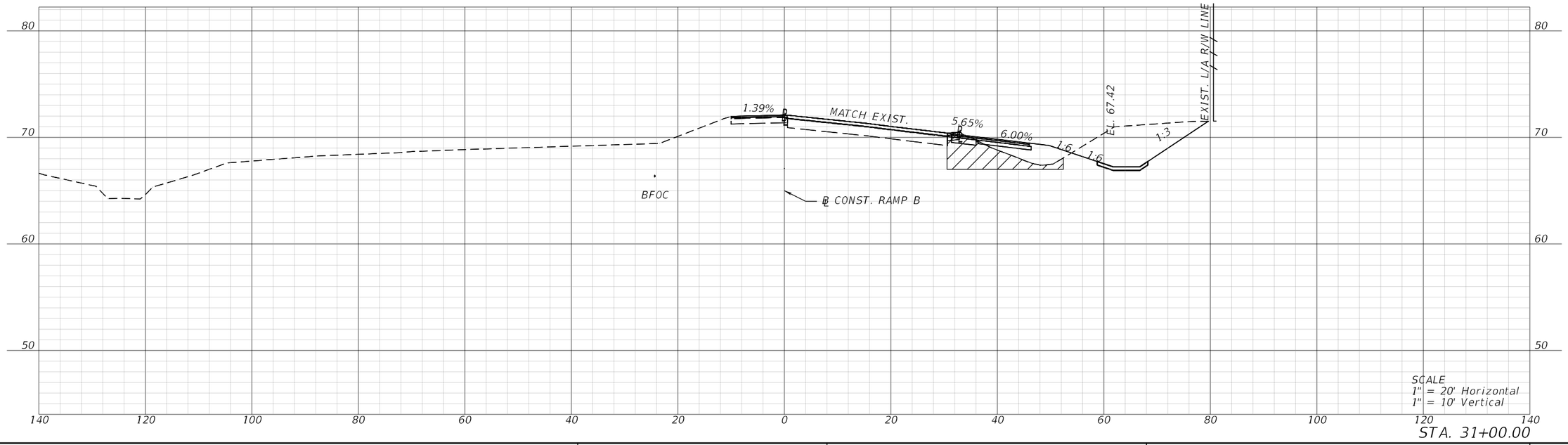

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JACKSONVILLE, FL 32258

COLUMBIA CO BOCC

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 25	COLUMBIA	445725-5-54-02

CROSS SECTIONS

SHEET NO. 88

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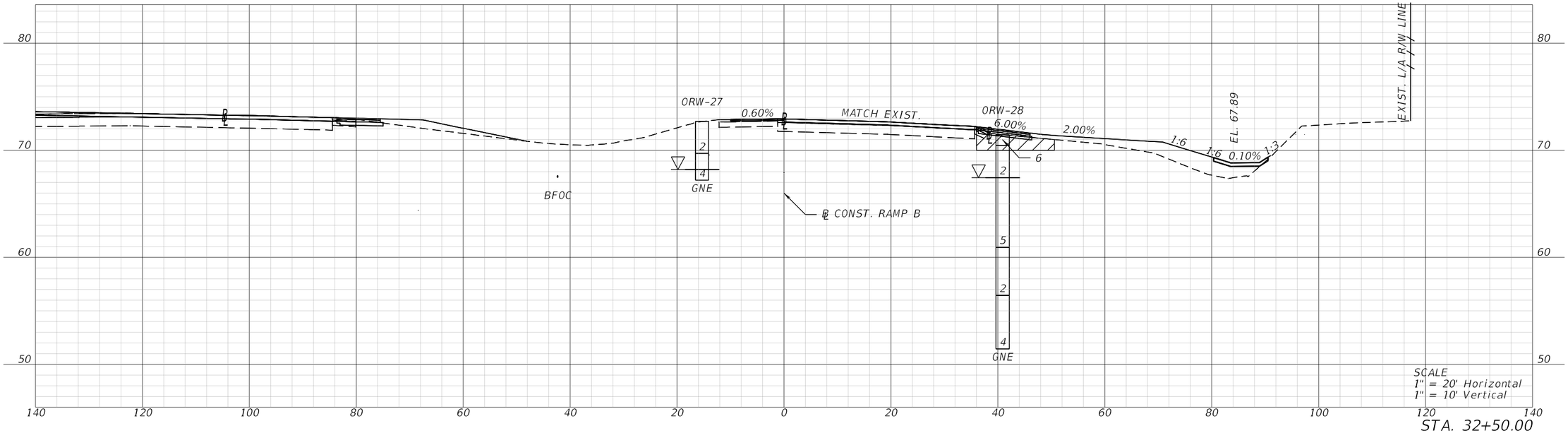
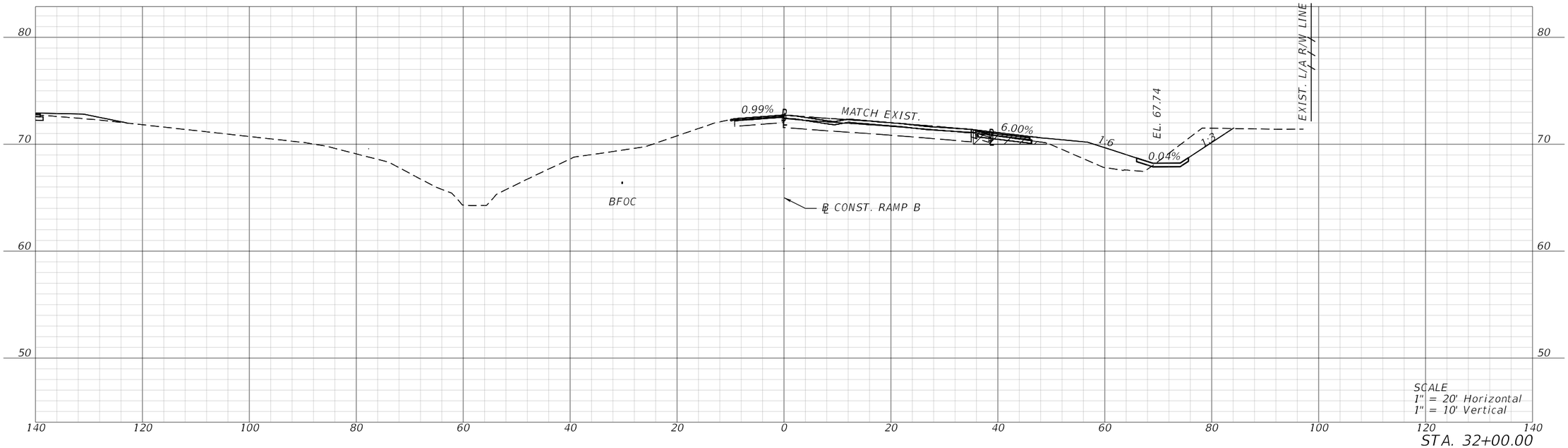


STA. 32+50.00



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REVISIONS			
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OSIRIS 9 CONSULTING, LLC
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JACKSONVILLE, FL 32258

COLUMBIA CO BOCC

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SR 25	COLUMBIA	445725-5-54-02

CROSS SECTIONS

SHEET NO. 89

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TEMPORARY TRAFFIC CONTROL NOTES

1. MAINTAIN EXISTING REGULATORY SPEEDS THROUGHOUT CONSTRUCTION. IF NO SPEED LIMIT IS POSTED, MAINTAIN A MINIMUM SPEED LIMIT OF 30 MPH.

   POSTED SPEED LIMIT IS AS FOLLOWS:
   US 41 = 45 MPH
   I-75 = 70 MPH
   I-75 RAMPS = 45 MPH

2. UTILIZE EXISTING, TEMPORARY, AND PROPOSED INLETS TO MAINTAIN POSITIVE DRAINAGE AT ALL TIMES. TEMPORARY SLOPE SUPPORT WILL BE REQUIRED AROUND PROPOSED AND TEMPORARY DRAINAGE FEATURES TO SUPPORT CONVEYANCE.

3. FIFTEEN MINUTES PRIOT TO INITIATING MOT FOR A LANE CLOSURE, CONTACT THE DISTRICT TWO REGIONAL TRAFFIC MANAGEMENT CENTER (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 COMPLETE AND LANES ARE REOPENED, CONTACT THE DISTRICT TWO RTMC WITHIN THIRTY MINUTES TO NOTIFY THEM THAT THE CLOSURES HAVE BEEN REMOVED.

4. EXISTING FDOT ITS FEATURES MUST REMAIN IN SERVICE AT ALL TIMES.

5. COORDINATE WITH LOCAL POSTMASTER TO MAINTAIN ACCESS TO ALL EXISTING MAILBOXES.

6. SR 25 IS A HURRICANE EVACUATION ROUTE. ALL LANES MUST BE OPEN FOR TRAFFIC WITHIN 12 HOURS OF A HURRICANE EVACUATION NOTICE.

7. COORDINATE TTC PLAN/PHASING WITH TTC PLAN FOR ADJACENT IMPROVEMENTS ON HOWELL ROAD.

8. USE REMOVABLE TAPE PAVEMENT MARKINGS OUTSIDE THE LIMITS OF MILLING AND RESURFACING AND NEW PAVEMENT.

9. PLACE TEMPORARY PAVEMENT MARKINGS AND RAISED PAVEMENT MARKERS PER FDOT STANDARD PLANS 102 SERIES.

10. WORK WITHIN APPROVED HOUR WORK ZONES IS TO BE COMPLETED BETWEEN THE HOURS OF 10 PM AND 6 AM, MONDAY THROUGH SATURDAY.

11. COORDINATE DRIVEWAY CLOSURES WITH BUSINESS OWNERS.

12. PORTABLE CHANGEABLE MESSAGE SIGNS (PCMS) SHALL BE USED FOR ADVANCE NOTICE OF LANE SHIFTS AND CLOSURES AHEAD DURING TEMPORARY TRAFFIC CONTROL PHASES. CONTENT AND LENGTH OF MESSAGES SHALL BE APPROVED BY THE ENGINEER AT LEAST TWO WEEKS IN ADVANCE OF USING THE MESSAGE. PCMS SHALL BE PLACED BASED ON THE FOLLOWING SCHEDULE:

PCMS MESSAGES CONFIGURATION A		
TWO WEEKS PRIOR TO CONSTRUCTION:	ROAD WORK	BEGINS MM/DD/YY
DURING CONSTRUCTION:	ROAD WORK AHEAD	USE CAUTION

NOTE: USE IN ALL APPLICABLE LOCATIONS

PCMS MESSAGES CONFIGURATION B		
TWO WEEKS PRIOR TO SIGNAL ACTIVATION:	NEW SIGNAL	PREPARE TO STOP
ONE WEEK AFTER SIGNAL ACTIVATION:	NEW SIGNAL	PREPARE TO STOP

NOTE: USE ONLY IN PHASE 4 PRIOR TO ACTIVATING SIGNALS

PHASING NOTES

PRE-PHASE ACTIVITIES (NO PLANS):

1. INSTALL ADVANCE WARNING DEVICES PER FDOT STANDARD PLANS INDEX 102-600.
2. INSTALL TEMPORARY EROSION CONTROL AND CONDUCT CLEARING AND GRUBBING.
3. CONSTRUCT TEMPORARY PAVEMENT AS SHOWN IN THE PHASE I PLANS.

PHASE I:

1. INSTALL ADVANCE WARNING DEVICES, PLACE TEMPORARY PAVEMENT MARKINGS AND TRAFFIC CONTROL DEVICES IN THE PHASE I CONFIGURATION. SHIFT TRAFFIC TO THE PHASE I CONFIGURATION.
2. CONSTRUCT DRAINAGE STRUCTURES, PIPES, DITCHES, AND SMF 1 WITHIN PHASE I WORK ZONES.
3. EXCAVATE SUBSOIL AS SHOWN IN THE ROADWAY CROSS SECTIONS.
4. CONSTRUCT FULL DEPTH WIDENING (EXCLUDING FRICTION COURSE) AND PROPOSED SHOULDERS ON US 41 AND THE I-75 RAMPS WITHIN THE PHASE I WORK ZONES.
5. CONSTRUCT THE SIGNALS AT THE I-75 INTERSECTIONS AS SHOWN IN THE PHASE I PLANS.
6. CONSTRUCT LIGHTING AS SHOWN IN THE LIGHTING PLANS.
7. CONSTRUCT SMF 1.
8. CONSTRUCT TEMPORARY OVERBUILD ON RAMP D SHOULDER AS SHOWN IN THE PHASE II PLANS.
9. CONSTRUCT TEMPORARY PAVEMENT AS SHOWN IN THE PHASE II PLANS.

PHASE II:

1. HOWELL ROAD AND THE QUADRANT ROADWAY MUST BE COMPLETE PRIOR TO CONDUCTING PHASE II WORK.
2. PLACE TEMPORARY PAVEMENT MARKINGS AND TRAFFIC CONTROL DEVICES IN THE PHASE II CONFIGURATION. SHIFT TRAFFIC TO THE PHASE II CONFIGURATION.
3. CONSTRUCT TRAFFIC SEPARATORS AT HOWELL RD INTERSECTION AS SHOWN IN PHASE II WORK ZONES.
4. EXCAVATE SUBSOIL AS SHOWN IN THE ROADWAY CROSS SECTIONS.
5. CONSTRUCT PROPOSED PIPE CROSSING UNDER RAMP C FROM S-305 TO S- 301 BEFORE GROUT FILLING THE PORTION OF THE EXISTING PIPE TO REMAIN UNDER RAMP C.
6. CONSTRUCT FULL DEPTH WIDENING (EXCLUDING FRICTION COURSE), PROPOSED SHOULDERS, AND CHANNELIZING ISLANDS ON I-75 RAMPS AS SHOWN IN PHASE II WORK ZONES. CONSTRUCT TEMPORARY PAVEMENT AS SHOWN IN PHASE III PLANS.

PHASE III:

1. PLACE TEMPORARY PAVEMENT MARKINGS AND TRAFFIC CONTROL DEVICES IN THE PHASE III CONFIGURATION. SHIFT TRAFFIC TO THE PHASE III CONFIGURATION.
2. CONSTRUCT MEDIAN CURB, ISLAND CURB, AND FULL DEPTH WIDENING AT THE I-75 INTERSECTIONS AND ALONG RAMP A WITHIN PHASE III WORK ZONES.

PHASE IV (NO PLANS):

1. PLACE TEMPORARY PAVEMENT MARKINGS IN FINAL CONFIGURATION AS SHOWN IN THE SIGNING AND MARKING PLANS. SHIFT TRAFFIC TO THE FINAL CONFIGURATION. CONDUCT FULL DEPTH MILLING AND RESURFACING OF US 41 AND ADJACENT I-75 RAMPS AS SHOWN IN THE ROADWAY PLANS PER FDOT STANDARD PLANS 102-SERIES.
2. PLACE FRICTION COURSE AND FINAL PAVEMENT MARKINGS.
3. REMOVE EROSION CONTROL AND TEMPORARY TRAFFIC CONTROL DEVICES.
4. SET SIGNALS TO FLASHING MODE AND SET PCMS TO CONFIGURATION B FOR TWO WEEKS PRIOR TO ACTIVATING SIGNALIZED INTERSECTIONS. KEEP PCMS ON CONFIGURATION B FOR ONE WEEK MINIMUM FOLLOWING ACTIVATION OF SIGNALS.
5. REMOVE PORTABLE CHANGEABLE MESSAGE SIGNS.

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REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

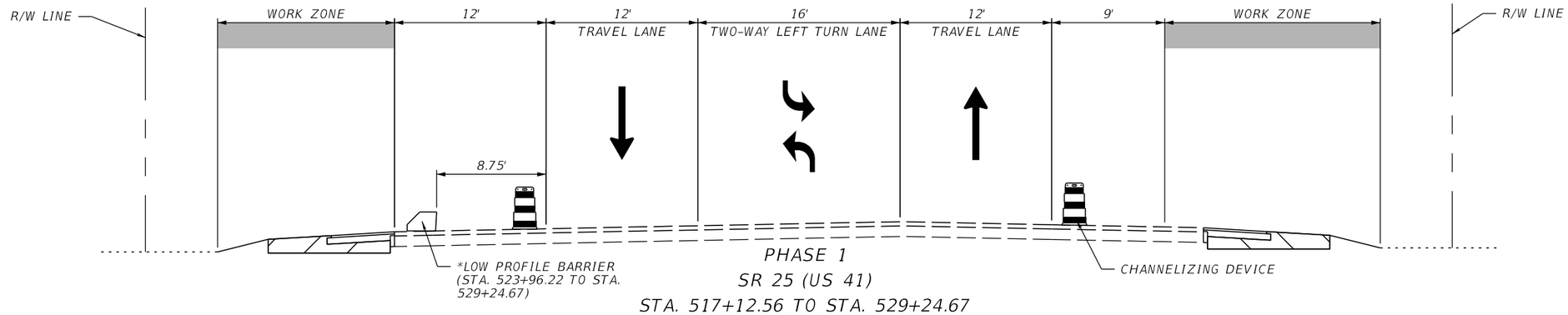
BRYON S. WUCZYNSKI, P.E.
LICENSE NUMBER: 64090
OSIRIS 9 CONSULTING, LLC
13241 BARTRAM PARK BLVD STE 1109
JACKSONVILLE, FL 32258

COLUMBIA CO BOCC

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 25	COLUMBIA	445725-5-54-02

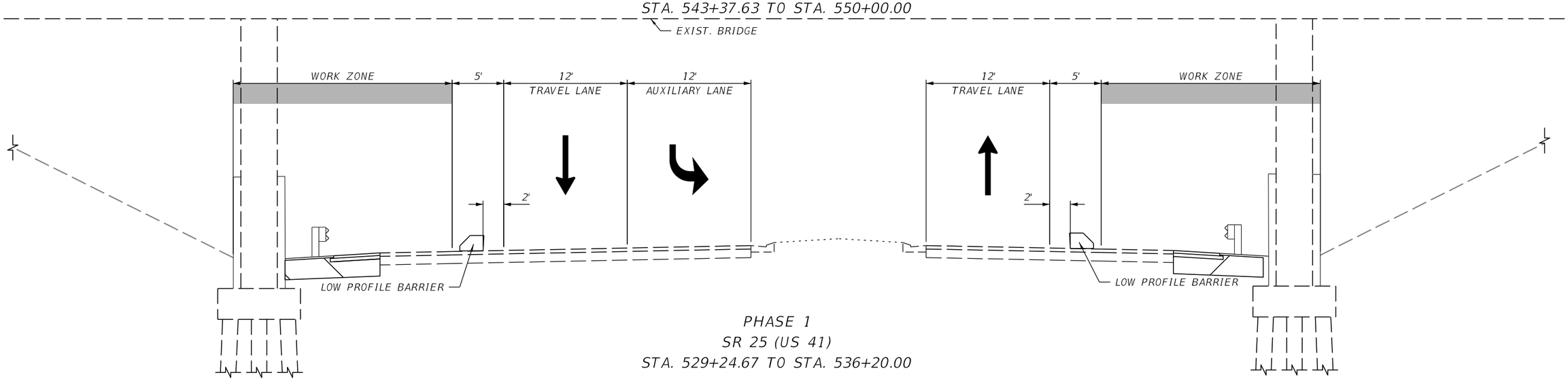
TEMPORARY TRAFFIC CONTROL PLAN - GENERAL NOTES

SHEET NO. 90



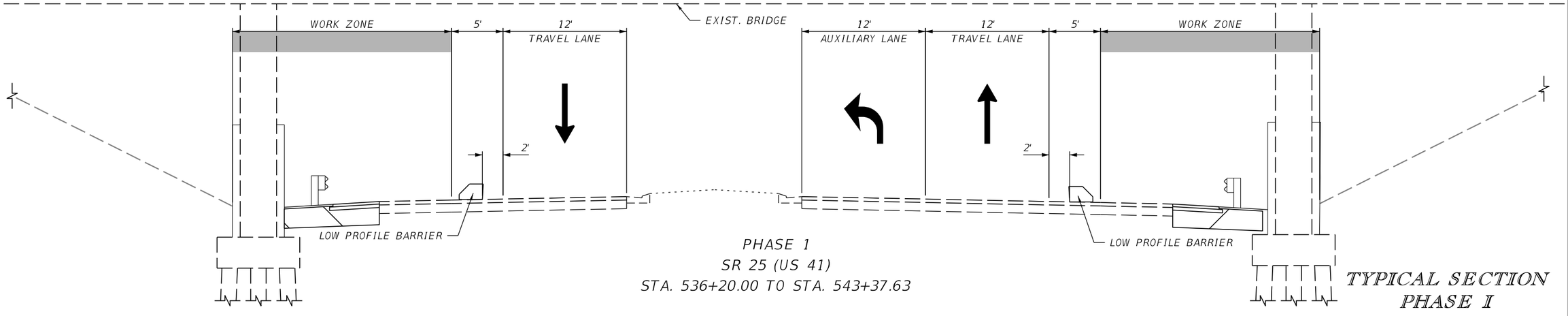
PHASE 1
SR 25 (US 41)
STA. 517+12.56 TO STA. 529+24.67
STA. 543+37.63 TO STA. 550+00.00

EXIST. BRIDGE



PHASE 1
SR 25 (US 41)
STA. 529+24.67 TO STA. 536+20.00

EXIST. BRIDGE



PHASE 1
SR 25 (US 41)
STA. 536+20.00 TO STA. 543+37.63

TYPICAL SECTION PHASE I

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

BRYON S. WUCZYNSKI, P.E.
LICENSE NUMBER: 64090
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13241 BARTRAM PARK BLVD STE 1109
JACKSONVILLE, FL 32258

COLUMBIA CO BOCC

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 25	COLUMBIA	445725-5-54-02

TEMPORARY TRAFFIC CONTROL PLAN

SHEET NO. 91

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T:\WorkSets\Columbia County\44572515201\Roadway\TCTYRD01.dgn : TCTYPICALSHEETS - PHASE 1 US 41
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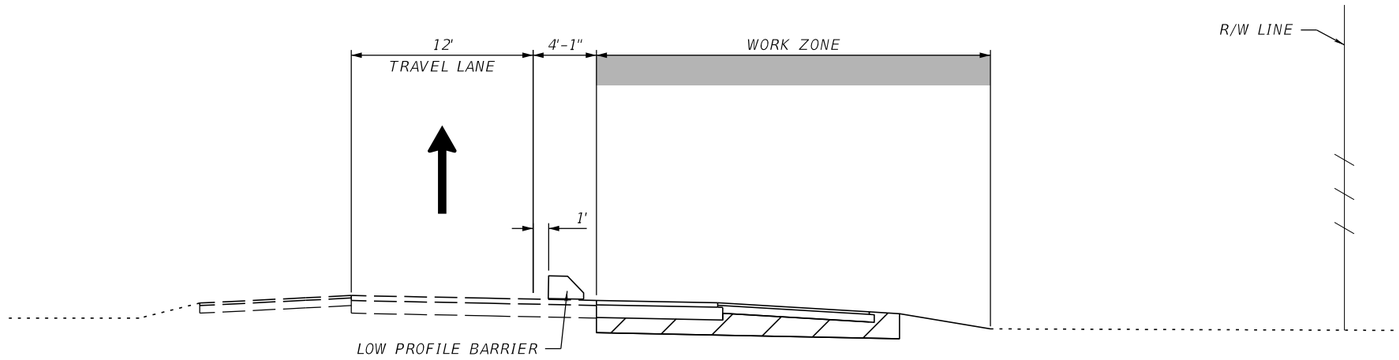
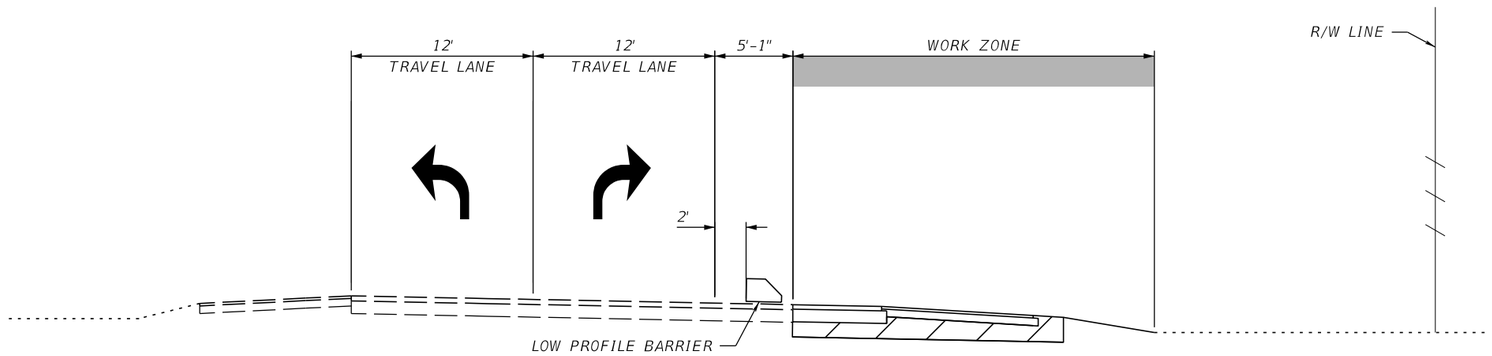


PHASE 1
I-75 RAMP B
STA. 26+87.95 TO STA. 30+48.52



PHASE 1
I-75 RAMP B
STA. 30+48.52 TO STA. 33+06.53

TYPICAL SECTION PHASE I

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

BRYON S. WUCZYNSKI, P.E.
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OSIRIS 9 CONSULTING, LLC
13241 BARTRAM PARK BLVD STE 1109
JACKSONVILLE, FL 32258

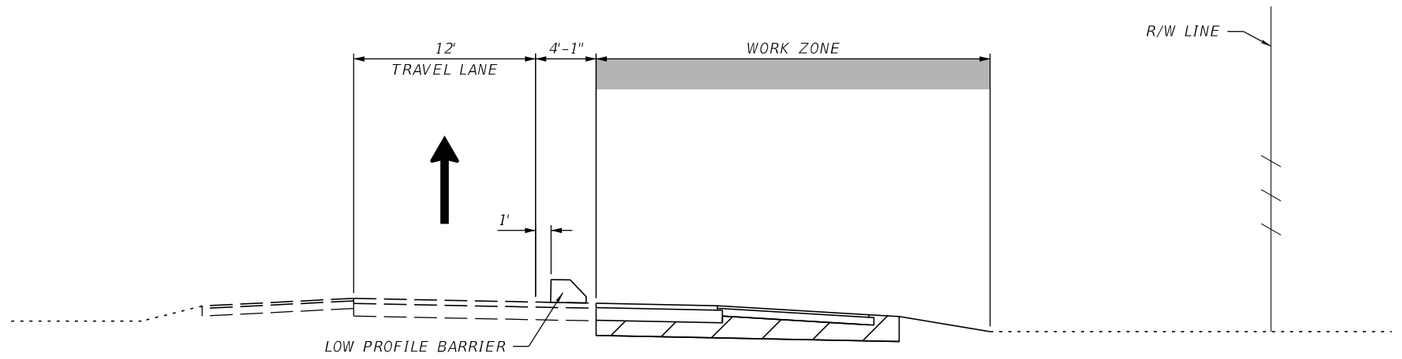
COLUMBIA CO BOCC

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 25	COLUMBIA	445725-5-54-02

TEMPORARY TRAFFIC CONTROL PLAN

SHEET NO. 92

THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.



PHASE 1
I-75 RAMP C
STA. 40+63.43 TO STA. 48+82.91

TYPICAL SECTION PHASE I

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

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13241 BARTRAM PARK BLVD STE 1109
JACKSONVILLE, FL 32258

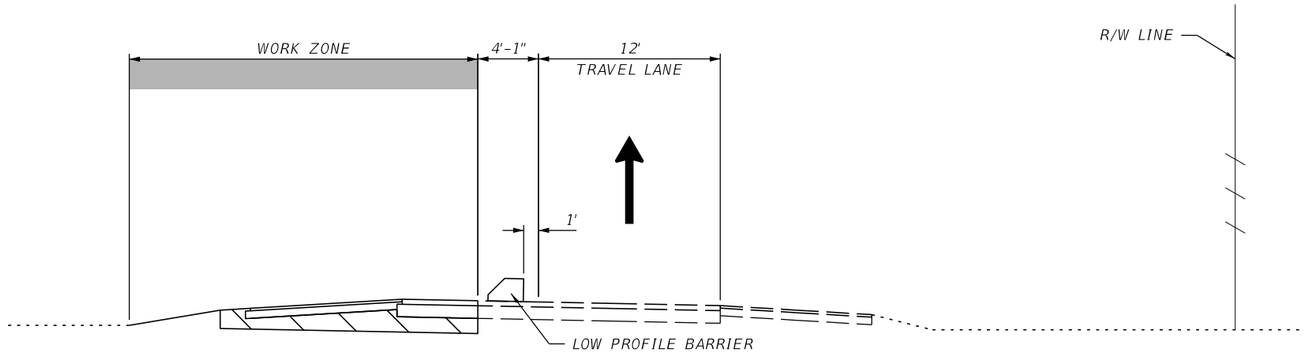
COLUMBIA CO BOCC

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 25	COLUMBIA	445725-5-54-02

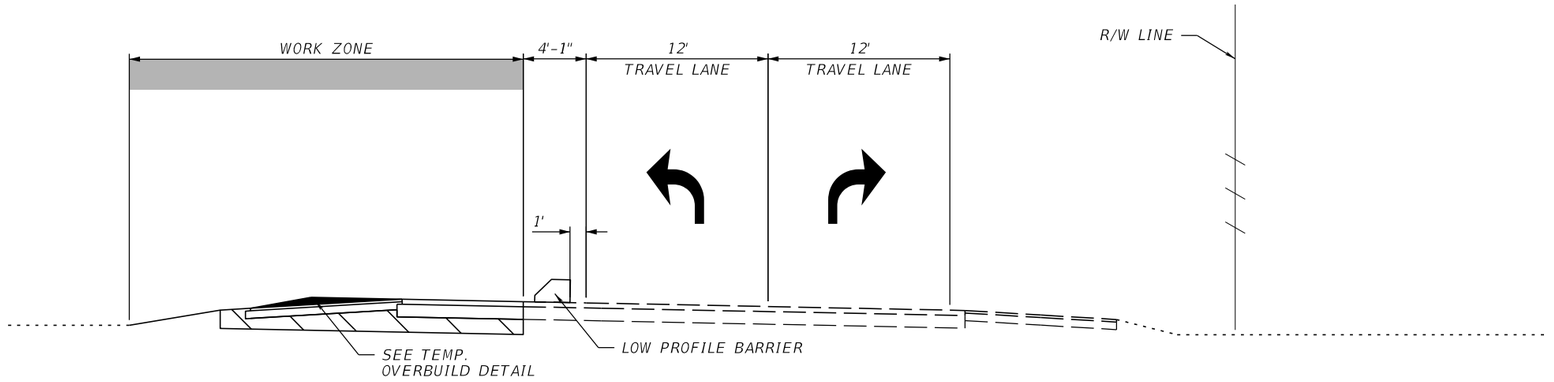
TEMPORARY TRAFFIC CONTROL PLAN

SHEET NO. 93

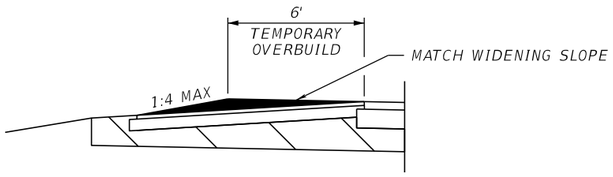
THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.



PHASE 1
I-75 RAMP D
STA. 63+11.42 T0 STA. 70+70.71



PHASE 1
I-75 RAMP D
STA. 70+70.71 T0 STA. 72+62.78



TEMPORARY OVERBUILD DETAIL

TYPICAL SECTION
PHASE I

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

BRYON S. WUCZYNSKI, P.E.
LICENSE NUMBER: 64090
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13241 BARTRAM PARK BLVD STE 1109
JACKSONVILLE, FL 32258

COLUMBIA CO BOCC

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 25	COLUMBIA	445725-5-54-02

TEMPORARY TRAFFIC CONTROL PLAN

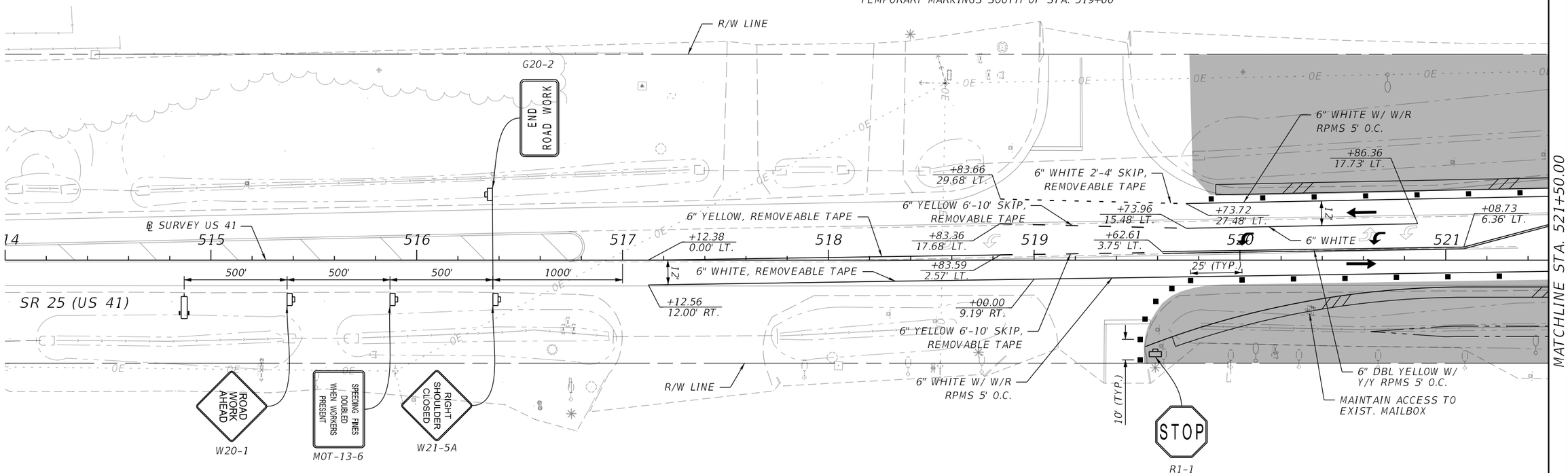
SHEET NO. 94

THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.

NOTE: USE REMOVEABLE TAPE FOR ALL TEMPORARY MARKINGS SOUTH OF STA. 519+00

N

0 10 50
Feet



MATCHLINE STA. 521+50.00

LEGEND
WORK ZONE
CHANNELING DEVICE
PORTABLE CHANGEABLE MESSAGE SIGN
WORK ZONE SIGN
LANE DIRECTION ARROW

PHASE I

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

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LICENSE NUMBER: 64090
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13241 BARTRAM PARK BLVD STE 1109
JACKSONVILLE , FL 32258

COLUMBIA CO BOCC		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 25	COLUMBIA	445725-5-54-02

TEMPORARY TRAFFIC CONTROL PLAN - US 41 (1)

SHEET NO. 95

T:\WorkSets\Columbia County\445725152O1\Roadway\TCPLRD01.dgn : PLAN 1 [SHEET]
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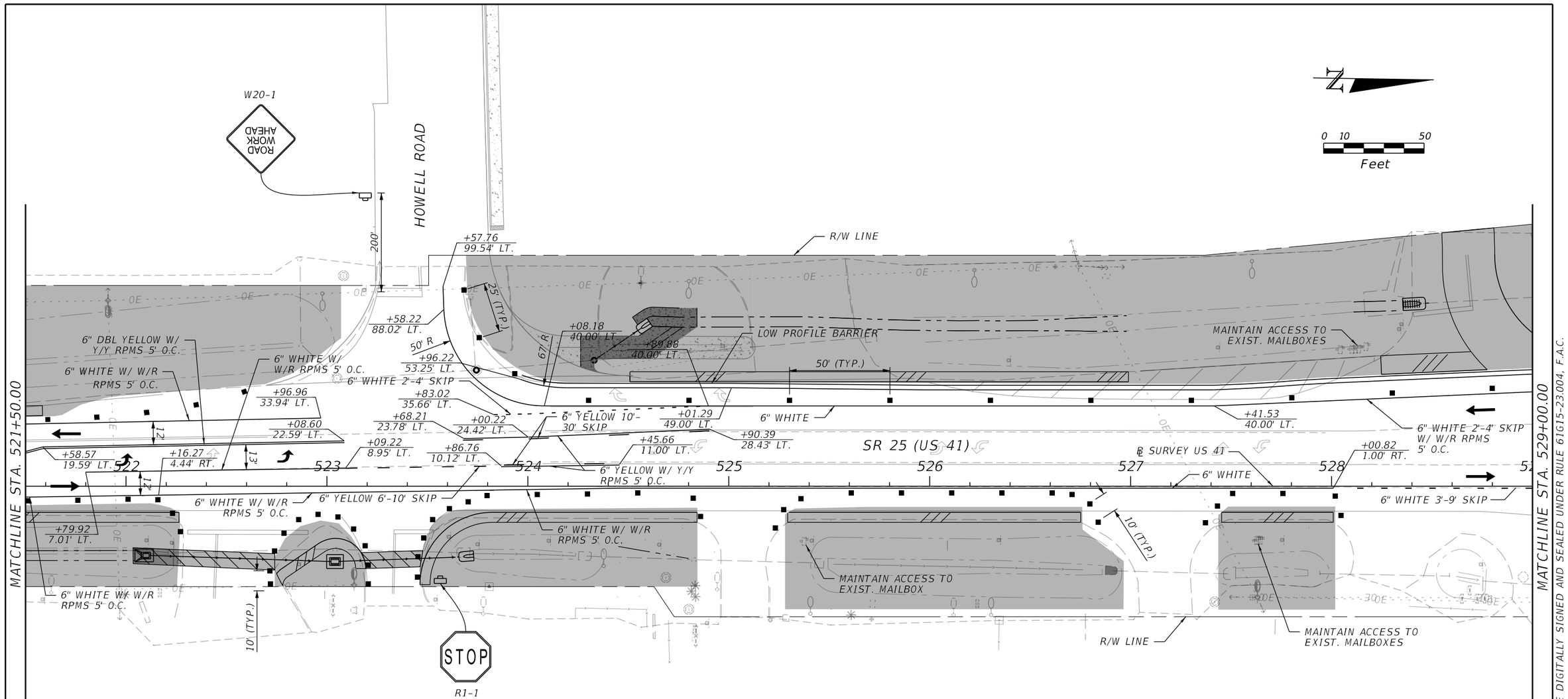

LEGEND
WORK ZONE
APPROVED HOUR WORK ZONE
DITCH PAVEMENT
CHANNELING DEVICE
LANE DIRECTION ARROW

PHASE I

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

BRYON S. WUCZYNSKI, P.E.
LICENSE NUMBER: 64090
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13241 BARTRAM PARK BLVD STE 1109
JACKSONVILLE , FL 32258

COLUMBIA CO BOCC		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 25	COLUMBIA	445725-5-54-02

TEMPORARY TRAFFIC CONTROL PLAN - US 41 (2)

SHEET NO. 96

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T:\WorkSets\Columbia County\445725152O1\Roadway\TCPLRD01.dgn : PLAN 2 [SHEET]
kmorgan 8/29/2025 3:14:58 PM

0 10 50
Feet

MATCHLINE STA. 529+00.00

LA R/W LINE

SEE INSET A
FOR ADDITIONAL INFORMATION

R/W LINE

(SEE TTC PLAN RAMP D)
MATCHLINE STA. 71+00.00

STA. 71+06.46
6.17' RT.

℄ CONST. RAMP D

R1-1

STOP

25' (TYP.)

RAMP D

12'

12'

807' R

STA. 71+06.91
17.88' LT.

STA. 71+20.38
17.88' LT.

STOP

R1-1

W1-4

6" WHITE 2'-4' SKIP
W/ W/R RPMS 5' O.C.

LOW PROFILE BARRIER

+77.78
50.50' LT.

+89.85
63.51' LT.

+61.72
50.50' LT.

50' (TYP.)

67' R

+25.24
50.50' LT.

40' R

+09.33
50.51' LT.

+48.95
52.50' LT.

6" WHITE

LOW PROFILE BARRIER

+66.36
59.26' LT.

+99.95
32.15' LT.

+21.71
50.50' LT.

SR 25 (US 41)

12'

12'

70' R

+17.73
7.25' RT.

+24.28
1.00' RT.

100' R

529 530 531 532 533 534 535 536

6" WHITE

67' R

12'

6" WHITE

℄ SURVEY US 41

+56.22
1.00' RT.

ONLY

+70.33
1.00' RT.

+05.60
13.04' RT.

+77.90
11.74' LT.

+77.32
1.00' RT.

6" WHITE

+76.06
13.26' RT.

LOW PROFILE BARRIER

6" WHITE 3'-9' SKIP

10'

134' R

CURB

+30.57

+64.25
19.64' RT.

LOW PROFILE BARRIER

STA. 71+24.91
4.60' LT.

STA. 71+54.14
3.67' LT.

+36

+49

STA. 71+94.38
4.00' LT.

STA. 71+94.38
8.00' RT.

6" YELLOW

RAMP D

STOP

6" WHITE

226' R

STA. 71+54.29
15.67' LT.

10' (TYP.)

+61.56
55.04' RT.

81

238' R

92' R

80' R

24" WHITE

℄ CONST. SMF 1

50' (TYP.)

SMF 1

40' R

STA. 72+59.34
8.00' RT.

18" WHITE (TYP.)

6" WHITE

℄ CONST. RAMP D

LOW PROFILE BARRIER

RAMP A

82

SR 25 (US 41)

INSET A

MATCHLINE STA. 82+20.00
(SEE TTC PLAN SMF 1)

LEGEND

- WORK ZONE
- APPROVED HOUR WORK ZONE
- DITCH PAVEMENT
- CHANNELING DEVICE
- WORK ZONE SIGN
- LANE DIRECTION ARROW
- TEMPORARY PAVEMENT

MATCHLINE STA. 536+50.30

PHASE I

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REVISIONS			
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BRYON S. WUCZYNSKI, P.E.
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13241 BARTRAM PARK BLVD STE 1109
JACKSONVILLE , FL 32258

COLUMBIA CO BOCC

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 25	COLUMBIA	445725-5-54-02

TEMPORARY TRAFFIC CONTROL PLAN - US 41 (3)

SHEET NO. 97

T:\WorkSets\Columbia County\445725152O1\Roadway\TCPLRD01.dgn : PLAN 3 [SHEET]
kmorgan 8/29/2025 3:15:00 PM

0 10 50
Feet

(SEE TTC PLAN RAMP C)
MATCHLINE STA. 42.00+00

℄ CONST. RAMP C
LOW PROFILE BARRIER
REMOVE 25 FEET OF EXISTING PIPE
STA. 40+71.67
12.00' RT.
+56.34
62.76' LT.
67' R
RAMP C
41
12'
LA R/W LINE
STA. 41+05.62
14.38' RT.
STA. 41+07.24
22.44' RT.
67' R
R/W LINE
STA. 40+71.73
25.31' RT.
67' R
+10.63
56.75' LT.
6" WHITE 2'-4' SKIP
+72.08
47.87' LT.
6" WHITE
+85.27
50.50' LT.
20' R
+94.40
68.97' LT.
67' R
+04.71
50.50' LT.
6" WHITE
+09.74
50.50' LT.
LOW PROFILE BARRIER
LOW PROFILE BARRIER
12'
6" WHITE
+40.98
56.75' LT.
+50.64
50.50' LT.
6" YELLOW
SR 25 (US 41)
+32.69
1.00' RT.
+82.21
1.00' RT.
24" WHITE
24" WHITE
+45.17
1.00' RT.
+39.02
0.00' RT.
25' (TYP.)
85' R
537
538
539
540
541
542
543
LOW PROFILE BARRIER
6" WHITE
12'
12'
40'
℄ SURVEY US 41
10' (TYP.)
R1-1
STOP
74' R
62' R
STA. 2+30.66
12.00' RT.
R1-1
STOP
STA. 2+61.15
37.83' RT.
RAMP B
12'
12'
18" WHITE (TYP.)
LOW PROFILE BARRIER
℄ CONST. RAMP B
6" WHITE
6" YELLOW
12'
12'
12'
12'
R/W LINE
LA R/W LINE
WRONG WAY ARROW
MATCHLINE STA. 31+50.00
(SEE TTC PLAN RAMP B)
MATCHLINE STA. 536+50.00
MATCHLINE STA. 540+00.00

LEGEND
- WORK ZONE
- DITCH PAVEMENT
- TEMPORARY PAVEMENT
- CHANNELING DEVICE
- LANE DIRECTION ARROW

PHASE I

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

BRYON S. WUCZYNSKI, P.E.
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13241 BARTRAM PARK BLVD STE 1109
JACKSONVILLE , FL 32258

COLUMBIA CO BOCC

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 25	COLUMBIA	445725-5-54-02

TEMPORARY TRAFFIC CONTROL PLAN - US 41 (4)

SHEET NO. 98

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kmorgan 8/29/2025 3:15:02 PM

N

0 10 50
Feet

MATCHLINE STA. 544+00.00

10' (TYP.)

6" WHITE W/ W/R RPMS 5' O.C.

6" WHITE W/ W/R RPMS 5' O.C.

+21.83
31.99' LT.

+97.36
42.42' LT.

+21.10
20.43' LT.

25' (TYP.)

12'

+05.09
12.42' LT.

+16.92
24.00' LT.

544 545 546 547 548 549 550 551

500' 500' 500' 500' 500'

6" YELLOW W/ Y/Y RPMS 5' O.C.

6" YELLOW 10'-30' SKIP W/ Y/Y RPMS 40' O.C.

6" WHITE W/ W/R RPMS 5' O.C.

6" WHITE W/ W/R RPMS 5' O.C.

SR 25 (US 41)

6" YELLOW 6'-10' SKIP

12'

R/W LINE

W1-4

W21-5A

RIGHT SHOULDER CLOSED

MOT-13-6

SPEEDING FINES DOUBLED WHEN WORKERS PRESENT

W20-1

ROAD WORK AHEAD

R/W LINE

℄ SURVEY US 41

500'

500'

W20-1

ROAD WORK AHEAD

END ROAD WORK

G20-2

END ROAD WORK

G20-2

FL-238

R/W LINE

PHASE I

LEGEND

- WORK ZONE
- CHANNELING DEVICE
- PORTABLE CHANGEABLE MESSAGE SIGN
- WORK ZONE SIGN
- LANE DIRECTION ARROW

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REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

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OSIRIS 9 CONSULTING, LLC
13241 BARTRAM PARK BLVD STE 1109
JACKSONVILLE , FL 32258

COLUMBIA CO BOCC

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 25	COLUMBIA	445725-5-54-02

TEMPORARY TRAFFIC CONTROL PLAN - US 41 (5)

SHEET NO. 99

T:\WorkSets\Columbia County\445725152O1\Roadway\TCPLRD01.dgn : PLAN 5 [SHEET]
kmorgan 8/29/2025 3:15:03 PM

(SEE TTC PLAN SHEET 3)
MATCHLINE STA. 82+20.00

SMF 1

83

84

85

86

℄ CONST. SMF 1

RAMP A

50' (TYP.)

LA R/W LINE

G20-2
END ROAD WORK

200'

N

0 10 50
Feet

LEGEND

- WORK ZONE
- CHANNELING DEVICE
- WORK ZONE SIGN
- LANE DIRECTION ARROW

PHASE I

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

BRYON S. WUCZYNSKI, P.E.
LICENSE NUMBER: 64090
OSIRIS 9 CONSULTING, LLC
13241 BARTRAM PARK BLVD STE 1109
JACKSONVILLE, FL 32258

COLUMBIA CO BOCC

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 25	COLUMBIA	445725-5-54-02

TEMPORARY TRAFFIC CONTROL PLAN - SMF 1

SHEET NO. 100

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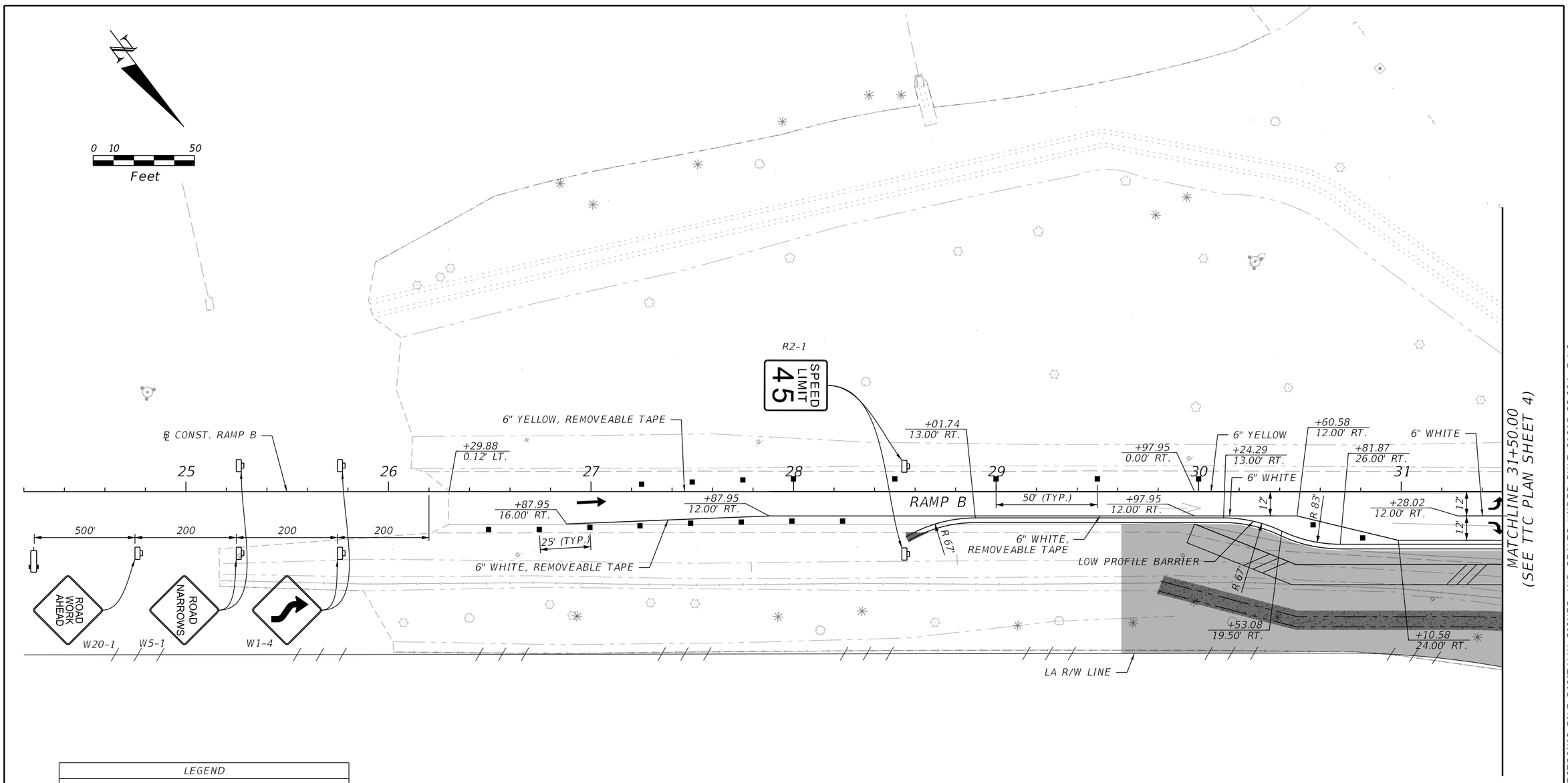
T:\WorkSets\Columbia County\44572515201\Roadway\TCPLRD01.dgn : CL_SMF5 - PLAN SMF 1 [SHEET]
kmorgan 8/29/2025 3:15:04 PM



LEGEND
WORK ZONE
DITCH PAVEMENT
CHANNELING DEVICE
CRASH CUSHION
PORTABLE CHANGEABLE MESSAGE SIGN
WORK ZONE SIGN
LANE DIRECTION ARROW
TEMPORARY PAVEMENT

PHASE I

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

BRYON S. WUCZYNSKI, P.E.
LICENSE NUMBER: 64090
OSIRIS 9 CONSULTING, LLC
13241 BARTRAM PARK BLVD STE 1109
JACKSONVILLE , FL 32258

COLUMBIA CO BOCC		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 25	COLUMBIA	445725-5-54-02

TEMPORARY TRAFFIC CONTROL PLAN - RAMP B

SHEET NO. 101

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kmorgan 8/29/2025 3:15:42 PM

(SEE TTC PLAN SHEET 4)
MATCHLINE 42+00.00

42

℄ CONST. RAMP C

43

44

+50.60
12.00' RT.

45

LOW PROFILE BARRIER

46

RAMP C

6" WHITE

47

6" YELLOW

+10.60
12.00' RT.

48

200'

49

25' (TYP.)

12'

LA R/W LINE

OE

ROAD WORK END

G20-2

N

0 10 50
Feet

LEGEND

- WORK ZONE
- CHANNELING DEVICE
- WORK ZONE SIGN
- LANE DIRECTION ARROW

PHASE I

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REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

BRYON S. WUCZYNSKI, P.E.
LICENSE NUMBER: 64090
OSIRIS 9 CONSULTING, LLC
13241 BARTRAM PARK BLVD STE 1109
JACKSONVILLE , FL 32258

COLUMBIA CO BOCC

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 25	COLUMBIA	445725-5-54-02

TEMPORARY TRAFFIC CONTROL PLAN - RAMP C

SHEET NO. 102

T:\WorkSets\Columbia County\44572515201\Roadway\TCPLRD01.dgn : PLAN C [SHEET]
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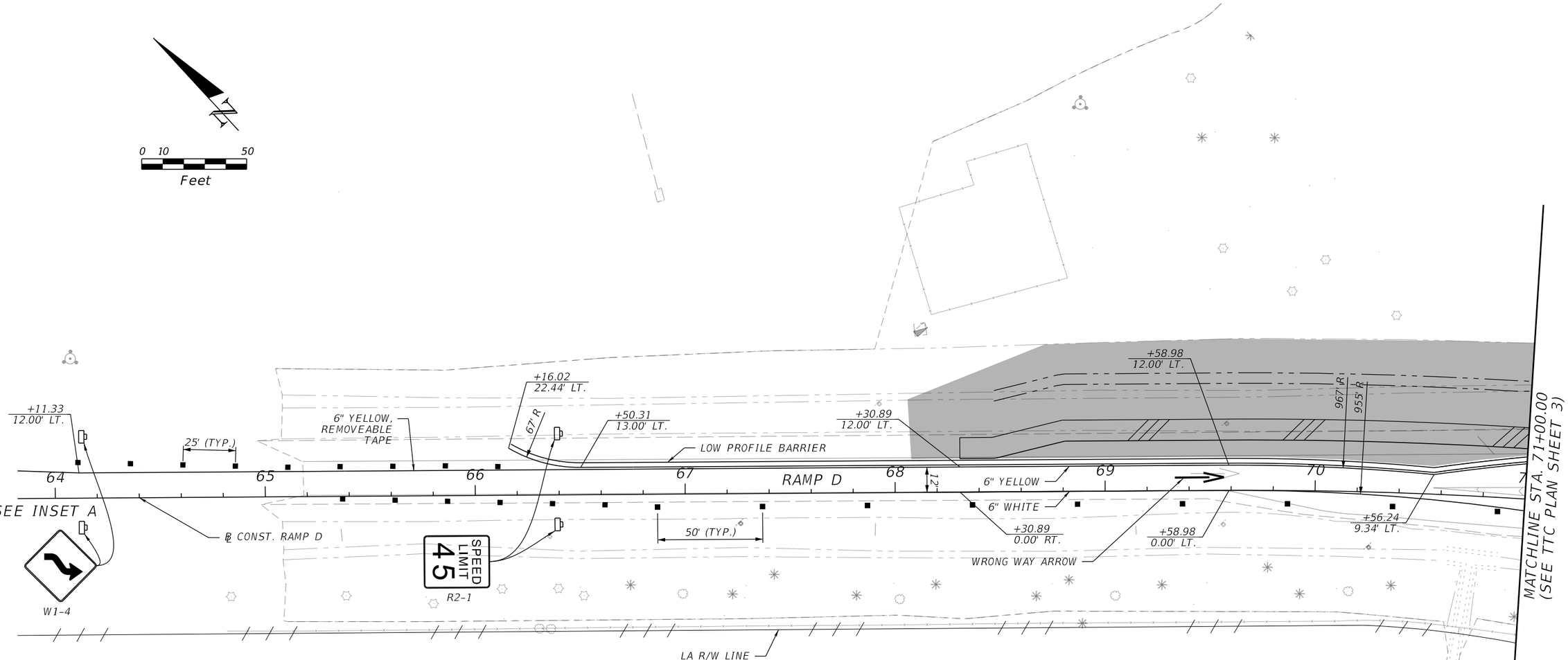

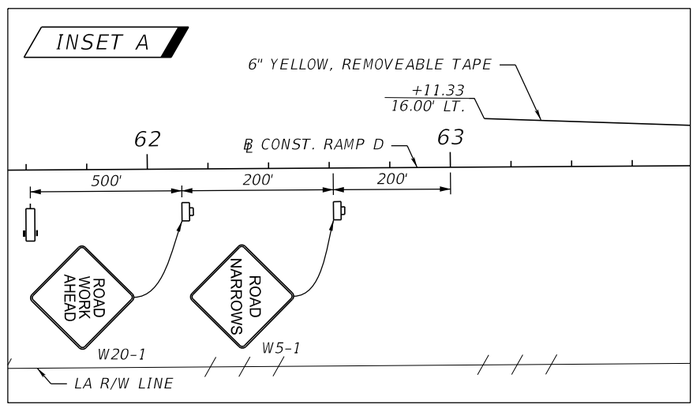

LEGEND

- WORK ZONE
- DITCH PAVEMENT
- CHANNELING DEVICE
- LANE DIRECTION ARROW

PHASE I

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

BRYON S. WUCZYNSKI, P.E.
LICENSE NUMBER: 64090
OSIRIS 9 CONSULTING, LLC
13241 BARTRAM PARK BLVD STE 1109
JACKSONVILLE , FL 32258

COLUMBIA CO BOCC

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 25	COLUMBIA	445725-5-54-02

TEMPORARY TRAFFIC CONTROL PLAN - RAMP D

SHEET NO. 103

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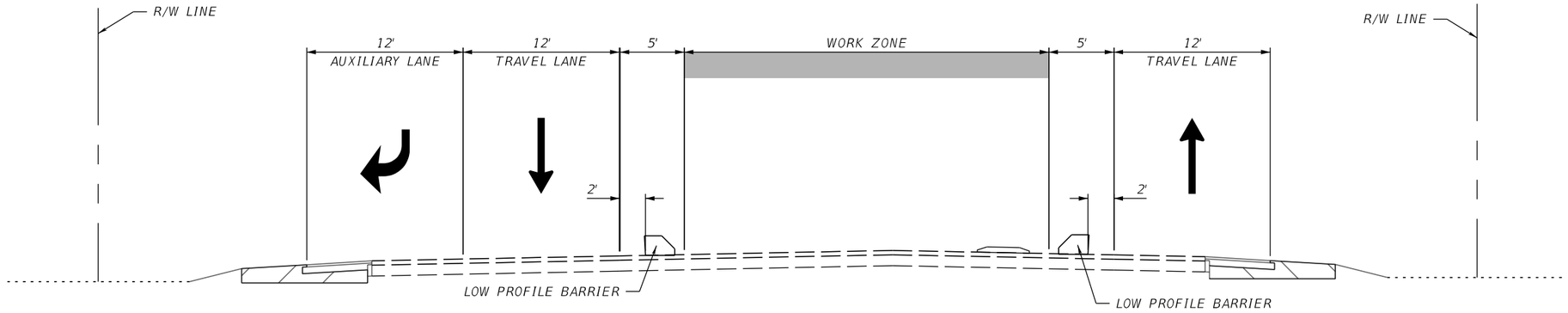

PHASE 2
SR 25 (US 41)
STA. 516+87.02 TO STA. 525+49.96

TYPICAL SECTION
PHASE II

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

BRYON S. WUCZYNSKI, P.E.
LICENSE NUMBER: 64090
OSIRIS 9 CONSULTING, LLC
13241 BARTRAM PARK BLVD STE 1109
JACKSONVILLE, FL 32258

COLUMBIA CO BOCC

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 25	COLUMBIA	445725-5-54-02

TEMPORARY TRAFFIC CONTROL PLAN

SHEET NO. 104

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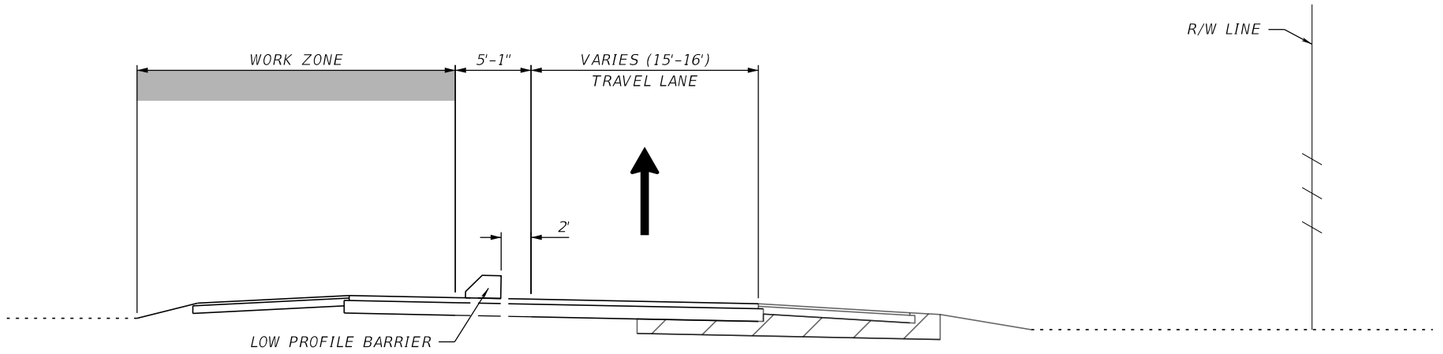

PHASE 2
I-75 RAMP C
STA. 40+63.43 TO STA. 42+55.02

TYPICAL SECTION
PHASE II

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

BRYON S. WUCZYNSKI, P.E.
LICENSE NUMBER: 64090
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13241 BARTRAM PARK BLVD STE 1109
JACKSONVILLE, FL 32258

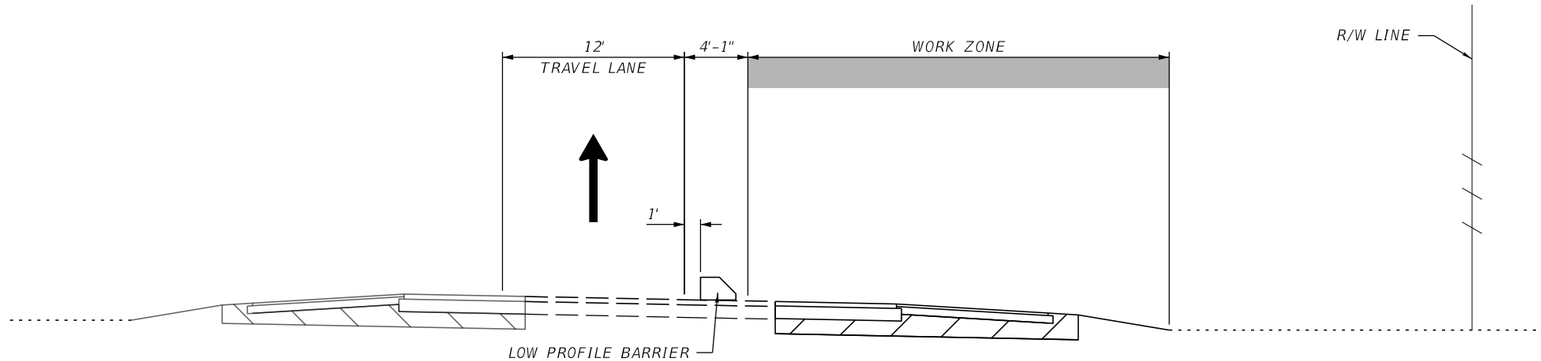
COLUMBIA CO BOCC

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 25	COLUMBIA	445725-5-54-02

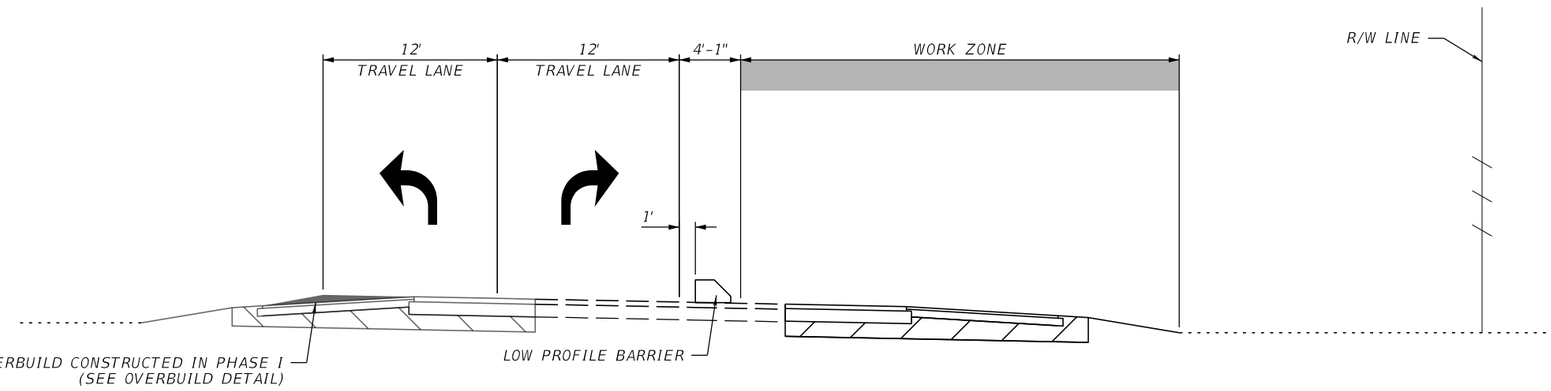
TEMPORARY TRAFFIC CONTROL PLAN

SHEET NO. 105

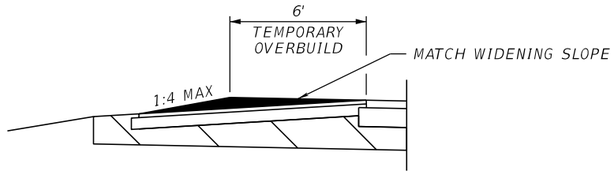
THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.



PHASE 2
I-75 RAMP D
STA. 64+02.30 TO STA. 68+70.08



PHASE 2
I-75 RAMP D
STA. 68+70.08 TO STA. 72+62.78



TEMPORARY OVERBUILD DETAIL

TYPICAL SECTION
PHASE II

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

BRYON S. WUCZYNSKI, P.E.
LICENSE NUMBER: 64090
OSIRIS 9 CONSULTING, LLC
13241 BARTRAM PARK BLVD STE 1109
JACKSONVILLE, FL 32258

COLUMBIA CO BOCC

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 25	COLUMBIA	445725-5-54-02

TEMPORARY TRAFFIC CONTROL PLAN

SHEET NO. 106

THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.

0 10 50
Feet

NOTE: USE REMOVEABLE TAPE FOR ALL
TEMPORARY MARKINGS SOUTH OF STA. 519+00

R/W LINE

G20-2
END ROAD WORK

6" YELLOW, REMOVEABLE TAPE

℄ SURVEY US 41

SR 25 (US 41)

14 515 516 517 518 519 520 521

+87.55 0.00' LT.

+87.55 0.00' RT.

+00.05 5.00' RT.

500' 500' 500' 500' 500'

+87.02 11.94' RT.

+87.02 11.99' RT.

+99.79 17.00' RT.

+95.94 5.00' RT.

+95.94 17.00' RT.

+65.86 17.00' RT.

12'

6" YELLOW, REMOVEABLE TAPE

6" WHITE, REMOVEABLE TAPE

6" WHITE, REMOVEABLE TAPE

6" WHITE W/ W/R RPMS 5' O.C.

+36.31 24.95' LT.

+62.13 21.24' LT.

+85.91 33.72' LT.

+62.52 19.25' LT.

+62.76 7.25' LT.

+63.99 5.00' RT.

6" WHITE

6" YELLOW

12'

12'

+87.19 9.75' LT.

+47.68 3.00' RT.

+00.57 4.93' LT.

144' R

6" WHITE

6" YELLOW

LOW PROFILE BARRIER

R/W LINE

STOP
R1-1

ROAD WORK AHEAD
W20-1

SPEEDING FINES DOUBLED WHEN WORKERS PRESENT
MOT-13-6

RIGHT SHOULDER CLOSED
W21-5A

W1-4

UNEVEN LANES
W8-11

6" WHITE, REMOVEABLE TAPE

W1-4

MATCHLINE STA. 521+50.00

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LEGEND	
■	CHANNELING DEVICE
▭	PORTABLE CHANGEABLE MESSAGE SIGN
▯	WORK ZONE SIGN
→	LANE DIRECTION ARROW

PHASE II

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

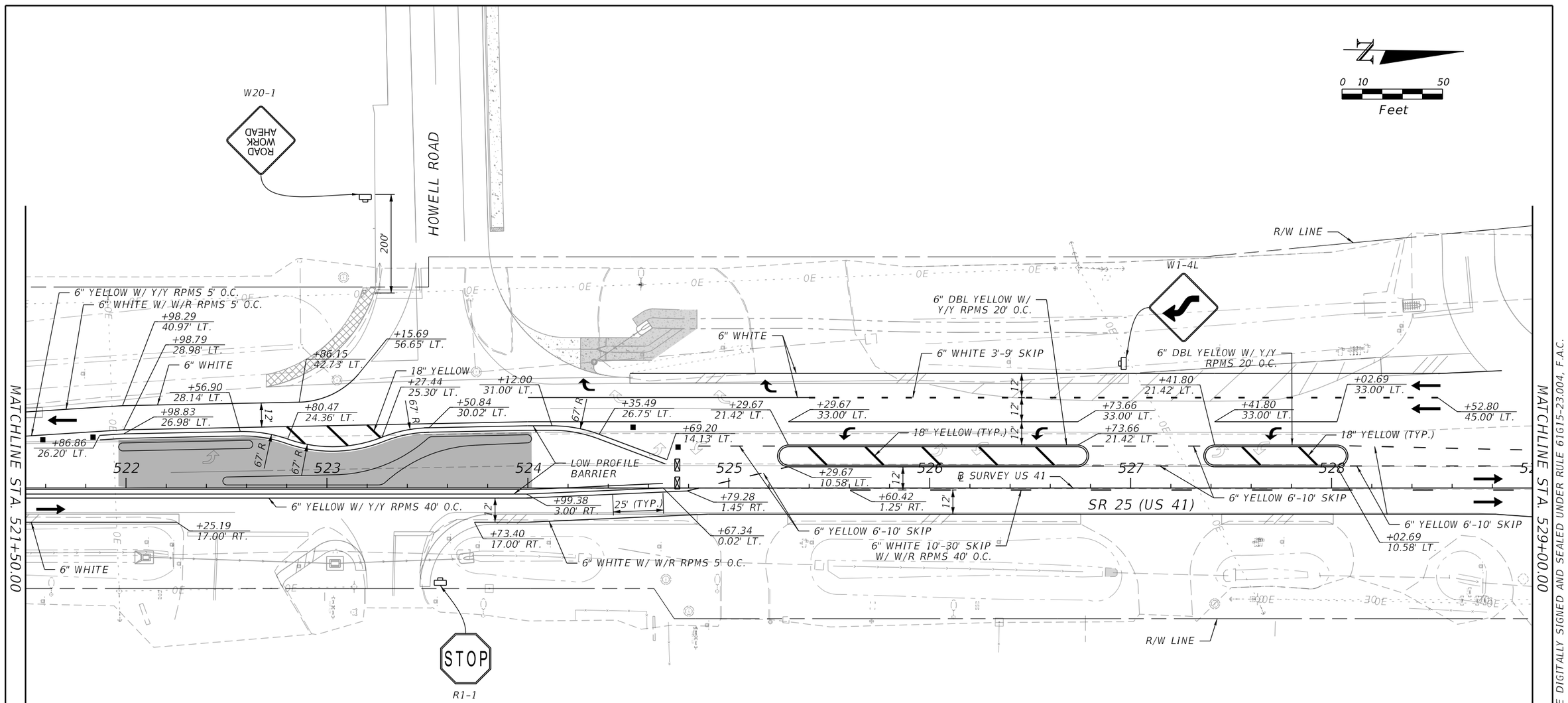
BRYON S. WUCZYNSKI, P.E.
LICENSE NUMBER: 64090
OSIRIS 9 CONSULTING, LLC
13241 BARTRAM PARK BLVD STE 1109
JACKSONVILLE , FL 32258

COLUMBIA CO BOCC

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 25	COLUMBIA	445725-5-54-02

TEMPORARY TRAFFIC CONTROL PLAN - US 41 (1)

SHEET NO. 107



LEGEND	
	WORK ZONE
■	CHANNELING DEVICE
	WORK ZONE SIGN
→	LANE DIRECTION ARROW
⊠	TYPE III BARRICADE

PHASE II

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

BRYON S. WUCZYNSKI, P.E.
LICENSE NUMBER: 64090
OSIRIS 9 CONSULTING, LLC
13241 BARTRAM PARK BLVD STE 1109
JACKSONVILLE , FL 32258

COLUMBIA CO BOCC

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 25	COLUMBIA	445725-5-54-02

TEMPORARY TRAFFIC CONTROL PLAN - US 41 (2)

SHEET NO. 108

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T:\WorkSets\Columbia County\44572515201\Roadway\TCPLRD02.dgn : PLAN 2 [SHEET]
kmorgan 8/29/2025 3:16:10 PM

℄ CONST. RAMP D

(SEE TTC PLAN RAMP D)
MATCHLINE STA. 71+00.00

LA R/W LINE

R/W LINE

RAMP D1

955' R

STA. 71+63.52
6.65' RT.

STA. 71+65.03
5.25' LT.

STA. 72+33.47
5.92' LT.

161' R

175' R

12'

6" WHITE

STA. 71+58.79
18.00' LT.

STA. 71+58.79
30.00' LT.

TEMPORARY OVERBUILD
CONSTRUCTED IN PHASE I

R1-1

STOP

82' R

70' R

12'

6" YELLOW

+25.33
79.18' RT.

STA. 72+77.63
22.36' RT.

250' R

68' R

25' (TYP.)

6" WHITE

LOW PROFILE BARRIER

STA. 72+34.42
6.05' RT.

24" WHITE

+72.77
6.66' LT.

+30.38
50.50' LT.

50' (TYP.)

12'

12'

6" WHITE

+42.67
52.07' LT.

6" WHITE

+38.08
11.00' LT.

6" YELLOW

MATCHLINE STA. 529+00.00

529 530 531 532 533 534 535 536

MATCHLINE STA. 536+50.00

℄ SURVEY US 41

SR 25 (US 41)

6" WHITE 10'-30' SKIP
W/ W/R RPMS 40' O.C.

+02.23
13.00' RT.

+76.72
13.00' RT.

+96.15
13.00' RT.

+77.10
26.58' RT.

60' R

19'

129' R

6" WHITE

6" YELLOW

TEMPORARY PAVEMENT IS BUILT IN PHASE I

6" WHITE

+98.53
32.16' RT.

14'

700' R

R/W LINE

6" WHITE

+69.71
79.72' RT.

110' R

+81.90
97.67' RT.

LA R/W LINE

+61.03
143.17' RT.

℄ CONST. SMF 1

SMF 1

N

0 10 50
Feet

LEGEND

- WORK ZONE
- CHANNELING DEVICE
- CRASH CUSHION
- LANE DIRECTION ARROW
- TEMPORARY PAVEMENT

PHASE II

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

BRYON S. WUCZYNSKI, P.E.
LICENSE NUMBER: 64090
OSIRIS 9 CONSULTING, LLC
13241 BARTRAM PARK BLVD STE 1109
JACKSONVILLE , FL 32258

COLUMBIA CO BOCC

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 25	COLUMBIA	445725-5-54-02

TEMPORARY TRAFFIC CONTROL PLAN - US 41 (3)

SHEET NO. 109

(SEE TTC PLAN RAMP C)
MATCHLINE STA. 42+00.00

LOW PROFILE BARRIER
℄ CONST. RAMP C
6" YELLOW
LA R/W LINE
RAMP C
STA. 41+57.33
27.32' RT.
STA. 41+51.05
13.43' RT.
STA. 40+99.08
29.73' RT.
67' R
41
R/W LINE
LOW PROFILE BARRIER
+11.61
101.62' LT.
+82.94
91.15' LT.
50' R
+70.40
88.16' LT.
+71.63
83.72' LT.
+87.39
65.30' LT.
+36.77
74.99' LT.
6" WHITE
+18.41
62.50' LT.
6" WHITE 2'-4' SKIP
+12.00
62.50' LT.
PAVT. ARROW (TYP.)
+91.28
64.05' LT.
+90.11
50.50' LT.
+11.74
50.50' LT.
+37.79
49.37' LT.
+87.80
59.20' LT.
6" WHITE
12'
+55.00
1.00' RT.
+04.21
11.00' LT.
+59.22
11.00' LT.
+27.42
1.00' RT.
+07.09
11.00' LT.
+88.75
35.55' LT.
SR 25 (US 41)
6" YELLOW
6" YELLOW
6" WHITE
50' R
537
538
539
540
541
542
543
12'
12'
+84.21
1.00' RT.
+11.21
1.00' RT.
+35.19
13.06' RT.
+47.23
13.00' RT.
+03.24
13.00' RT.
+53.90
1.06' RT.
12" WHITE 3'-9" SKIP
PAVT. MESSAGE (TYP.)
℄ SURVEY US 41
6" WHITE
6" WHITE
+37.67
13.00' RT.
+90.05
0.34' RT.
6" DBL YELLOW W/ Y/Y RPMS 30' O.C.
+88.04
13.00' RT.
R3-18
R1-1
STOP
74' R
RAMP B
STOP
R1-1
STA. 32+58.70
0.00' LT.
6" YELLOW
℄ CONST. RAMP B
12
32
24" WHITE
STA. 32+58.70
12.00' RT.
12
6" WHITE
STA. 32+08.15
24.00' RT.
STA. 32+07.19
36.00' RT.
25' (TYP.)
R/W LINE
(SEE TTC PLAN RAMP B)
MATCHLINE STA. 31+50.00
LA R/W LINE
WRONG WAY ARROWS

MATCHLINE STA. 536+50.00

MATCHLINE STA. 540+00.00

LEGEND
WORK ZONE
CHANNELING DEVICE
LANE DIRECTION ARROW
TEMPORARY PAVEMENT

N

0 10 50
Feet

PHASE II

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REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

BRYON S. WUCZYNSKI, P.E.
LICENSE NUMBER: 64090
OSIRIS 9 CONSULTING, LLC
13241 BARTRAM PARK BLVD STE 1109
JACKSONVILLE , FL 32258

COLUMBIA CO BOCC		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 25	COLUMBIA	445725-5-54-02

TEMPORARY TRAFFIC CONTROL PLAN - US 41 (4)

SHEET NO. 110

T:\WorkSets\Columbia County\44572515201\Roadway\TCPLRD02.dgn : PLAN 4 [SHEET]
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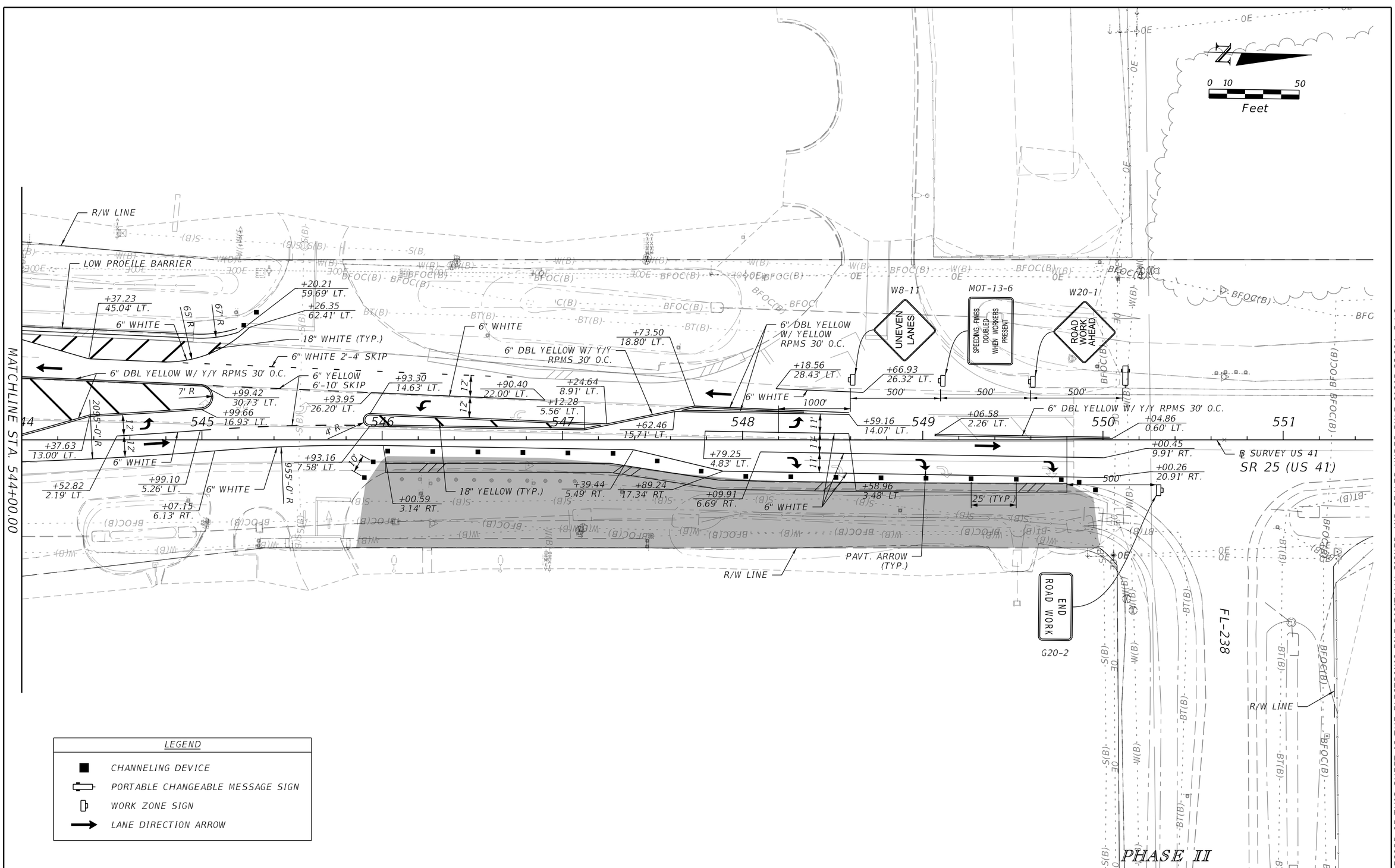

LEGEND

- CHANNELING DEVICE
- PORTABLE CHANGEABLE MESSAGE SIGN
- WORK ZONE SIGN
- LANE DIRECTION ARROW

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

BRYON S. WUCZYNSKI, P.E.
LICENSE NUMBER: 64090
OSIRIS 9 CONSULTING, LLC
13241 BARTRAM PARK BLVD STE 1109
JACKSONVILLE , FL 32258

COLUMBIA CO BOCC		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 25	COLUMBIA	445725-5-54-02

TEMPORARY TRAFFIC CONTROL PLAN - US 41 (5)

SHEET NO. 111

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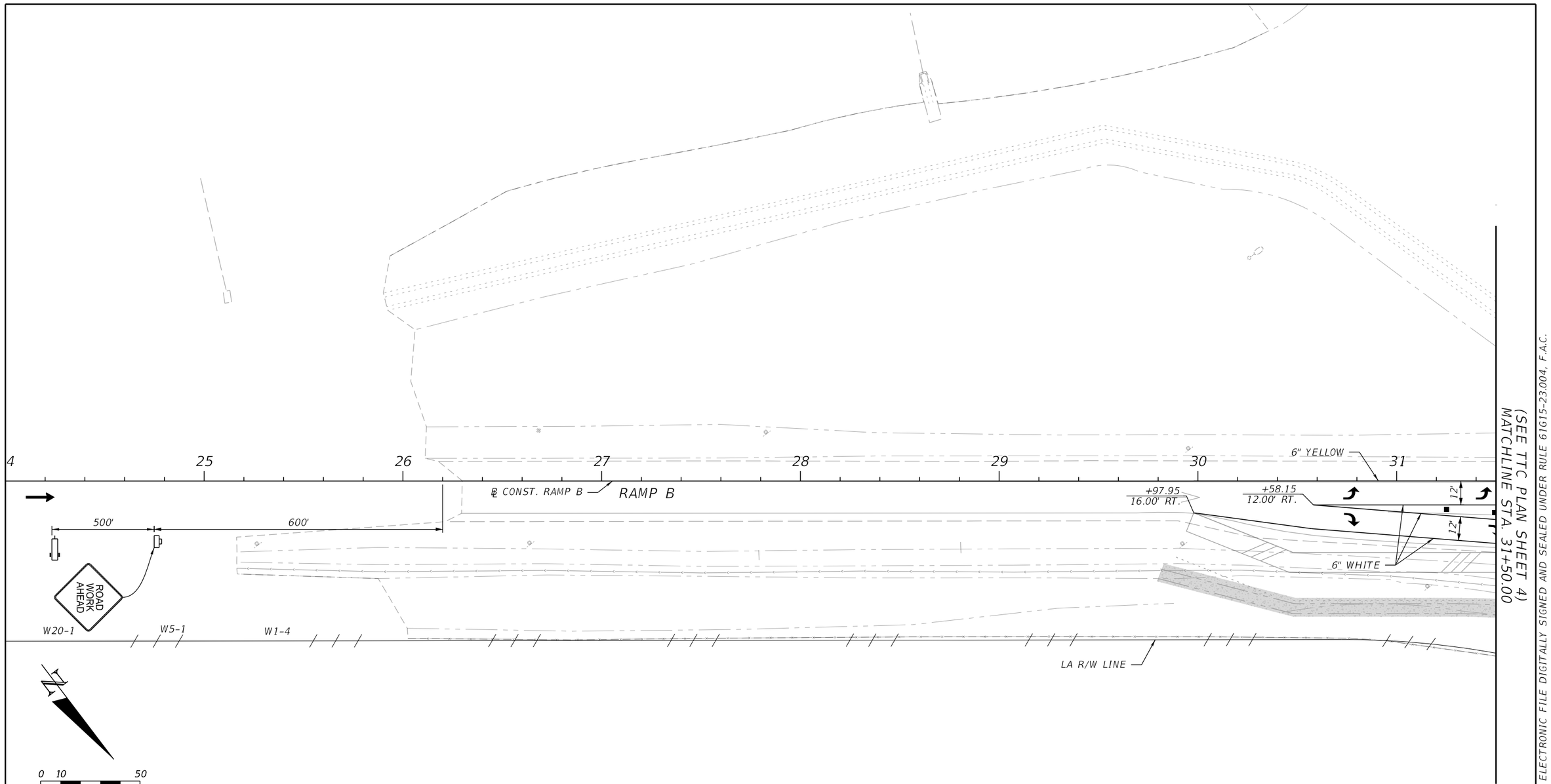
kmorgan 8/29/2025 3:16:15 PM



(SEE TTC PLAN SHEET 4)
MATCHLINE STA. 31+50.00

PHASE II

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

BRYON S. WUCZYNSKI, P.E.
LICENSE NUMBER: 64090
OSIRIS 9 CONSULTING, LLC
13241 BARTRAM PARK BLVD STE 1109
JACKSONVILLE , FL 32258

COLUMBIA CO BOCC

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 25	COLUMBIA	445725-5-54-02

TEMPORARY TRAFFIC CONTROL PLAN - RAMP B

SHEET NO. 112

THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.

T:\WorkSets\Columbia County\44572515201\Roadway\TCPLRD02.dgn : PLAN B [SHEET]
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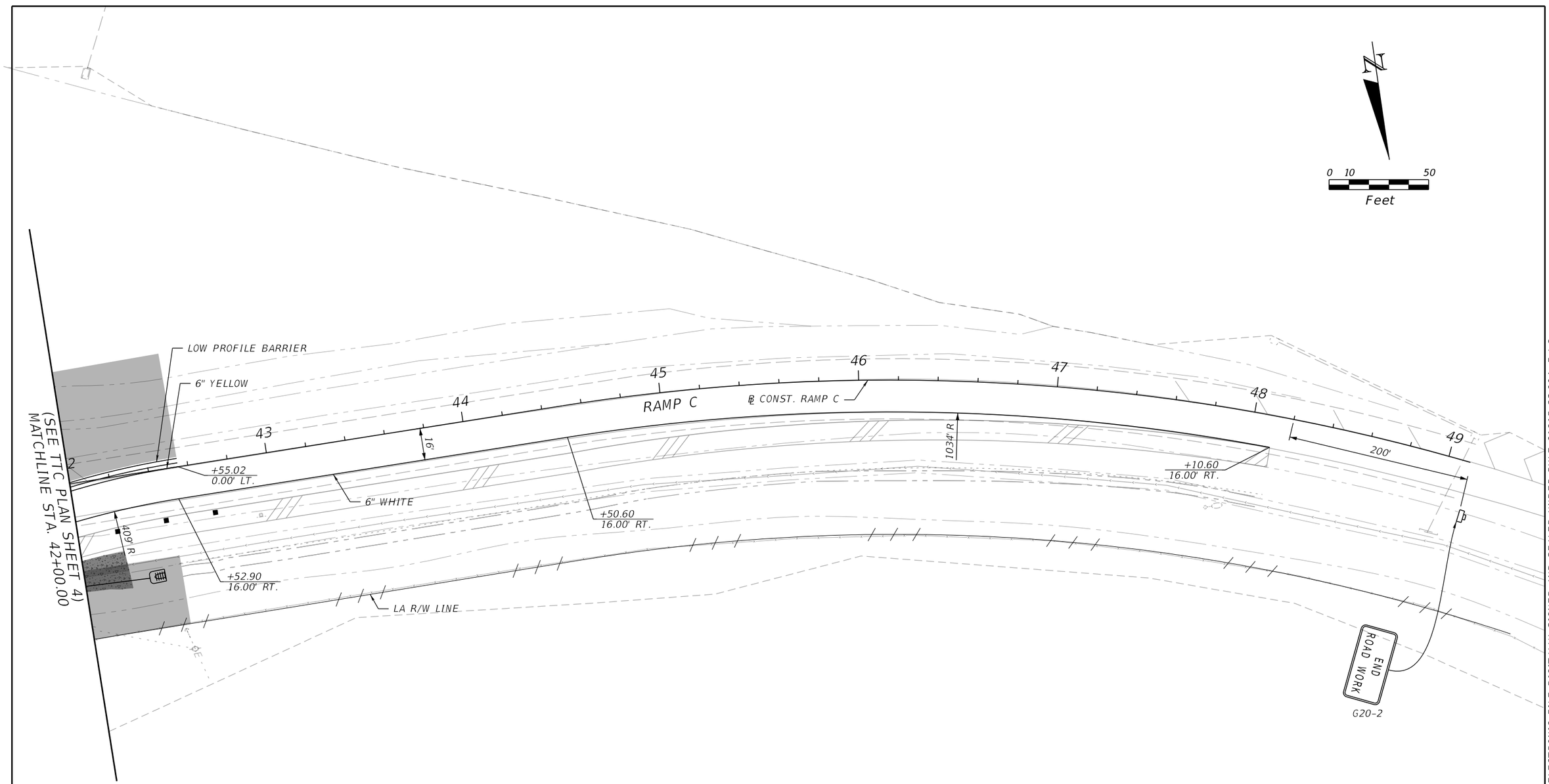


LEGEND	
■	CHANNELING DEVICE
▯	WORK ZONE SIGN
→	LANE DIRECTION ARROW

PHASE II

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

BRYON S. WUCZYNSKI, P.E.
LICENSE NUMBER: 64090
OSIRIS 9 CONSULTING, LLC
13241 BARTRAM PARK BLVD STE 1109
JACKSONVILLE , FL 32258

COLUMBIA CO BOCC

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 25	COLUMBIA	445725-5-54-02

TEMPORARY TRAFFIC CONTROL PLAN - RAMP C

SHEET NO. 113

THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.

T:\WorkSets\Columbia County\44572515201\Roadway\TCPLRD02.dgn : PLAN C [SHEET]
kmorgan 8/29/2025 3:16:18 PM

0 10 50
Feet

R2-1
SPEED LIMIT 45

SEE INSET B

+02.30
16.00' LT.

25' (TYP.)

+69.02
16.50' LT.

6" YELLOW,
REMOVEABLE TAPE

50' (TYP.)

+30.89
16.50' LT.

+71.05
16.50' LT.

+21.05
30.00' LT.

+67.84
16.50' LT.

+84.93
18.00' LT.

TEMP. OVERBUILD CONSTRUCTED IN PHASE I

LOW PROFILE BARRIER

6" YELLOW

PAVT. ARROW
(TYP.)

64 65 RAMP D 66 67 68 69 70

12'

+67.88
4.50' LT.

6" WHITE,
REMOVEABLE TAPE

+30.89
4.50' LT.

6" WHITE

+02.88
0.00' LT.

6" WHITE, REMOVEABLE TAPE

+02.88
0.00' LT.

6" WHITE,
REMOVEABLE TAPE

R 67'

+83.91
5.94' RT.

℄ CONST. RAMP D

+18.21
3.50' LT.

WRONG WAY ARRWS

+67.84
4.50' LT.

R 954'

(SEE TTC PLAN SHEET 3)
MATCHLINE STA. 71+00.00

W1-4

LA R/W LINE

INSET B

℄ CONST. RAMP D

62 63

500' 200' 200'

W20-1

ROAD WORK AHEAD

W5-1

ROAD NARROWS

LA R/W LINE

LEGEND

- WORK ZONE
- CHANNELING DEVICE
- PORTABLE CHANGEABLE MESSAGE SIGN
- LANE DIRECTION ARROW
- TEMPORARY PAVEMENT

PHASE II

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

BRYON S. WUCZYNSKI, P.E.
LICENSE NUMBER: 64090
OSIRIS 9 CONSULTING, LLC
13241 BARTRAM PARK BLVD STE 1109
JACKSONVILLE , FL 32258

COLUMBIA CO BOCC

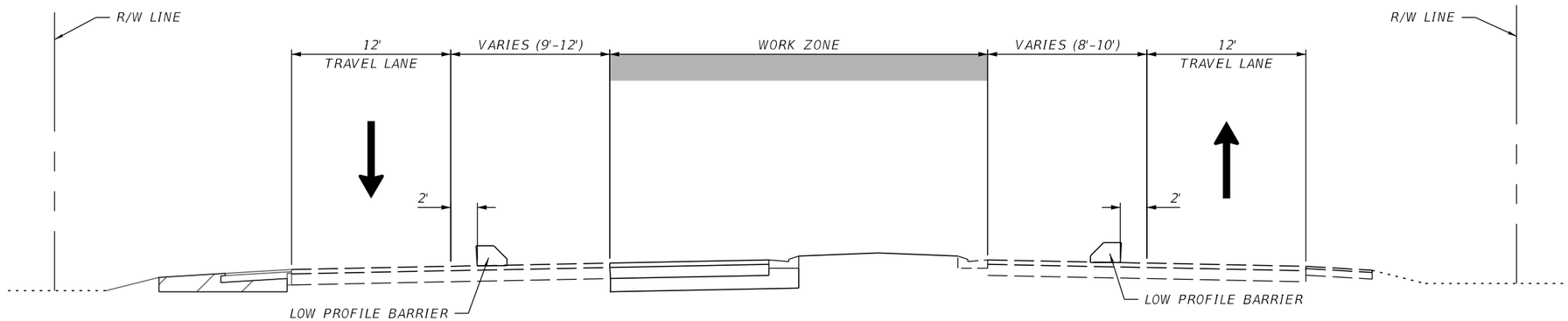
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 25	COLUMBIA	445725-5-54-02

TEMPORARY TRAFFIC CONTROL PLAN - RAMP D

SHEET NO. 114

THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.

T:\WorkSets\Columbia County\44572515201\Roadway\TCPLRD02.dgn : RAMP D [SHEET]
kmorgan 8/29/2025 3:16:20 PM



PHASE 3
SR 25 (US 41)
STA. 528+81.78 TO STA. 542+14.13

TYPICAL SECTION
PHASE III

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

BRYON S. WUCZYNSKI, P.E.
LICENSE NUMBER: 64090
OSIRIS 9 CONSULTING, LLC
13241 BARTRAM PARK BLVD STE 1109
JACKSONVILLE, FL 32258

COLUMBIA CO BOCC

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 25	COLUMBIA	445725-5-54-02

TEMPORARY TRAFFIC CONTROL PLAN

SHEET NO. 115

THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.

T:\WorkSets\Columbia County\44572515201\Roadway\TCTYRD01.dgn : TCTYPICALSHEETS - PHASE 3 US 41
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0 10 50
Feet

R/W LINE

G20-2
END ROAD WORK

6" DBL YELLOW W/ Y/Y RPMS 30' O.C.

PAVEMENT ARROW (TYP.)

+87.69
31.76' LT.

6" WHITE
+73.20
21.46' LT.

+02.11
10.46' LT.

+58.46
19.17' LT.

+64.75
7.71' LT.

12'

12'

30' R

14 515 516 517 518 519 520 521

+48.47
16.55' LT.

+79.74
1.42' RT.

500' 500' 1000' 500'

℄ SURVEY US 41 SR 25 (US 41)

+43.63
1.42' RT.

+83.36
13.00' RT.

6" WHITE

12'

R/W LINE

ROAD WORK AHEAD
W20-1

SPEEDING FINES DOUBLED WHEN WORKERS PRESENT
MOT-13-6

UNEVEN LANES
W8-11

STOP
R1-1

MATCHLINE STA. 521+50.00

LEGEND

- PORTABLE CHANGEABLE MESSAGE SIGN
- WORK ZONE SIGN
- LANE DIRECTION ARROW

PHASE III

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

BRYON S. WUCZYNSKI, P.E.
LICENSE NUMBER: 64090
OSIRIS 9 CONSULTING, LLC
13421 BARTRAM PARK BLVD STE 1109
JACKSONVILLE, FL 32258

COLUMBIA CO BOCC

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 25	COLUMBIA	445725-5-54-02

TEMPORARY TRAFFIC CONTROL PLAN - US 41 (1)

SHEET NO. 116

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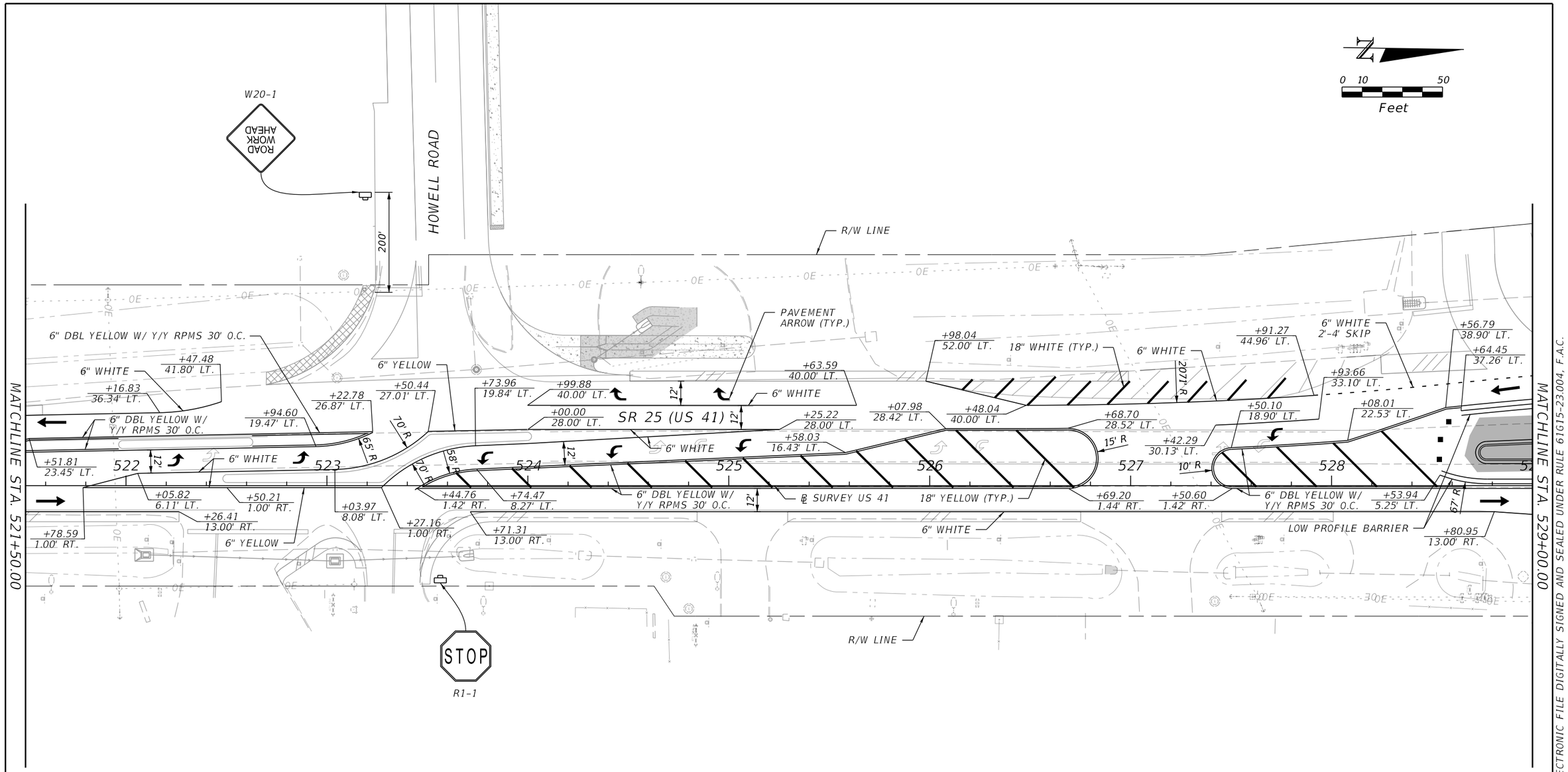
T:\WorkSets\Columbia County\445725152O1\Roadway\TCPLRD03.dgn : PLAN 1 [SHEET]
kmorgan 8/29/2025 3:16:38 PM



LEGEND	
■	CHANNELING DEVICE
→	LANE DIRECTION ARROW

PHASE III

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

BRYON S. WUCZYNSKI, P.E.
LICENSE NUMBER: 64090
OSIRIS 9 CONSULTING, LLC
13421 BARTRAM PARK BLVD STE 1109
JACKSONVILLE, FL 32258

COLUMBIA CO BOCC

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 25	COLUMBIA	445725-5-54-02

TEMPORARY TRAFFIC CONTROL PLAN - US 41 (2)

SHEET NO. 117

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T:\WorkSets\Columbia County\44572515201\Roadway\TCPLRD03.dgn : PLAN 2 [SHEET]
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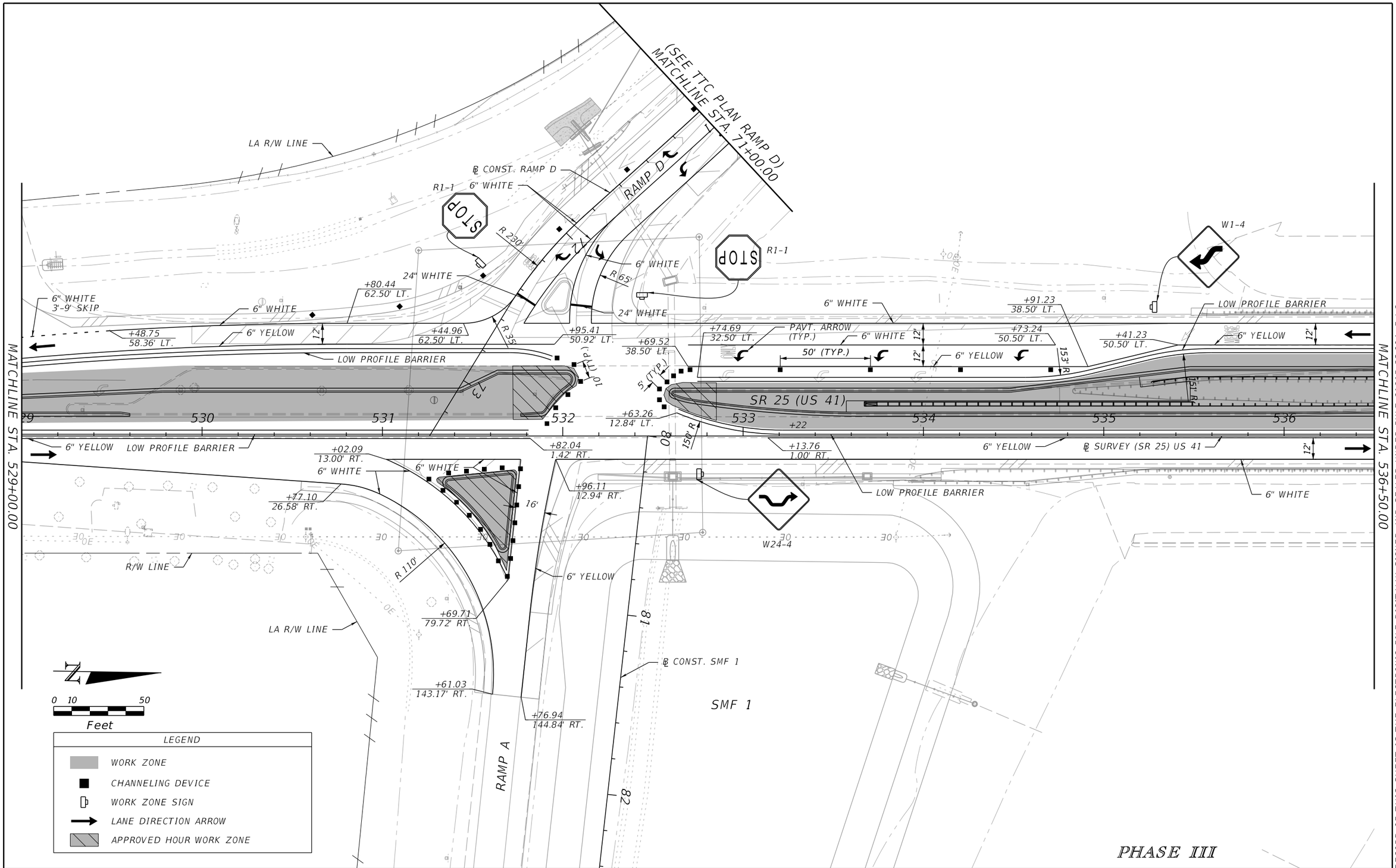

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

BRYON S. WUCZYNSKI, P.E.
LICENSE NUMBER: 64090
OSIRIS 9 CONSULTING, LLC
13421 BARTRAM PARK BLVD STE 1109
JACKSONVILLE, FL 32258

COLUMBIA CO BOCC

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 25	COLUMBIA	445725-5-54-02

TEMPORARY TRAFFIC CONTROL PLAN - US 41 (3)

SHEET NO. 118

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T:\WorkSets\Columbia County\445725152O1\Roadway\TCPLRD03.dgn : PLAN 3 [SHEET]
kmorgan 8/29/2025 3:16:51 PM

(SEE TTC PLAN RAMP C)
MATCHLINE STA. 42+00.00

℄ CONST. RAMP C
STA. 41+57.07
12.00' RT.
STA. 41+40.98
0.00' LT.
RAMP C
LA R/W LINE
STA. 41+85.37
24.00' RT.
6" WHITE W/
W/R RPMS 5' O.C.
R/W LINE
LOW PROFILE BARRIER
+82.94
91.15' LT.
+11.61
101.62' LT.
+70.40
88.16' LT.
+71.65
83.61' LT.
+87.37
65.17' LT.
+88.66
61.16' LT.
+91.28
64.05' LT.
+89.62
40.27' LT.
+54.80
0.79' RT.
50' R
6" YELLOW
6" YELLOW
+79.86
48.50' LT.
+77.60
62.50' LT.
R/200'
+56.50
62.50' LT.
41
+56.57
62.50' LT.
135' R
6" WHITE W/
W/R RPMS 5' O.C.
+18.41
62.23' LT.
2083' R
2095' R
+31.49
45.33' LT.
12'
+04.74
50.50' LT.
6" YELLOW
+84.80
50.50' LT.
+89.26
9.72' LT.
+18.08
11.00' LT.
+08.57
50.50' LT.
+98.71
34.17' LT.
+62.52
50.50' LT.
SR 25 (US 41)
+67.81
17.00' LT.
500' R
+90.82
11' LT.
5' (TYP.)
5' (TYP.)
PAVT. ARROW (TYP.)
6" YELLOW
50' (TYP.)
537
538
539
540
541
542
543
R 153'
13'
+56.95
6.00' RT.
+74.85
1.00' RT.
+41.67
5.22' LT.
+08.84
17.00' LT.
12'
6" WHITE
24" WHITE
+84.27
17.80' RT.
50' R
+09.78
1.38' RT.
12'
+18.35
1.00' RT.
+17.65
11.00' LT.
+64.32
0.67' RT.
6" DBL YELLOW W/ Y/Y RPMS 30' O.C.
℄ SURVEY US 41
6" YELLOW
+05.97
1.00' LT.
R 153'
+74.31
11.00' LT.
+74.32
12.99' RT.
+24.31
1.00' RT.
+95.35
1.91' RT.
+87.35
6.00' RT.
6" WHITE W/
W/R RPMS 5' O.C.
+90.82
6.00' RT.
33'
℄
+05.85
6.00' RT.
+06.11
18.00' RT.
+18.88
13.00' RT.
6" WHITE W/
W/R RPMS 5' O.C.
+39.84
4.49' RT.
6" YELLOW W/
Y/Y RPMS 5' O.C.
R1-1
STOP
+47.51
18.09' RT.
74' R
STOP
R1-1
STA. 32+58.70
12.00' RT.
℄ CONST. RAMP B
WRONG WAY ARROWS
24" WHITE
6" WHITE
32'
RAMP B
25'
STA. 32+08.15
24.00' RT.
R/W LINE
LA R/W LINE
(SEE TTC PLAN RAMP B)
MATCHLINE STA. 31+50.00
MATCHLINE STA. 536+50.00
MATCHLINE STA. 540+00.00

0 10 50
Feet

LEGEND
- WORK ZONE
- CHANNELING DEVICE
- CRASH CUSHION
- LANE DIRECTION ARROW
- TEMPORARY PAVEMENT
- APPROVED HOUR WORK ZONE

PHASE III

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

BRYON S. WUCZYNSKI, P.E.
LICENSE NUMBER: 64090
OSIRIS 9 CONSULTING, LLC
13421 BARTRAM PARK BLVD STE 1109
JACKSONVILLE, FL 32258

COLUMBIA CO BOCC

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 25	COLUMBIA	445725-5-54-02

TEMPORARY TRAFFIC CONTROL PLAN - US 41 (4)

SHEET NO. 119

T:\WorkSets\Columbia County\445725152O1\Roadway\TCPLRD03.dgn : PLAN 4 [SHEET]
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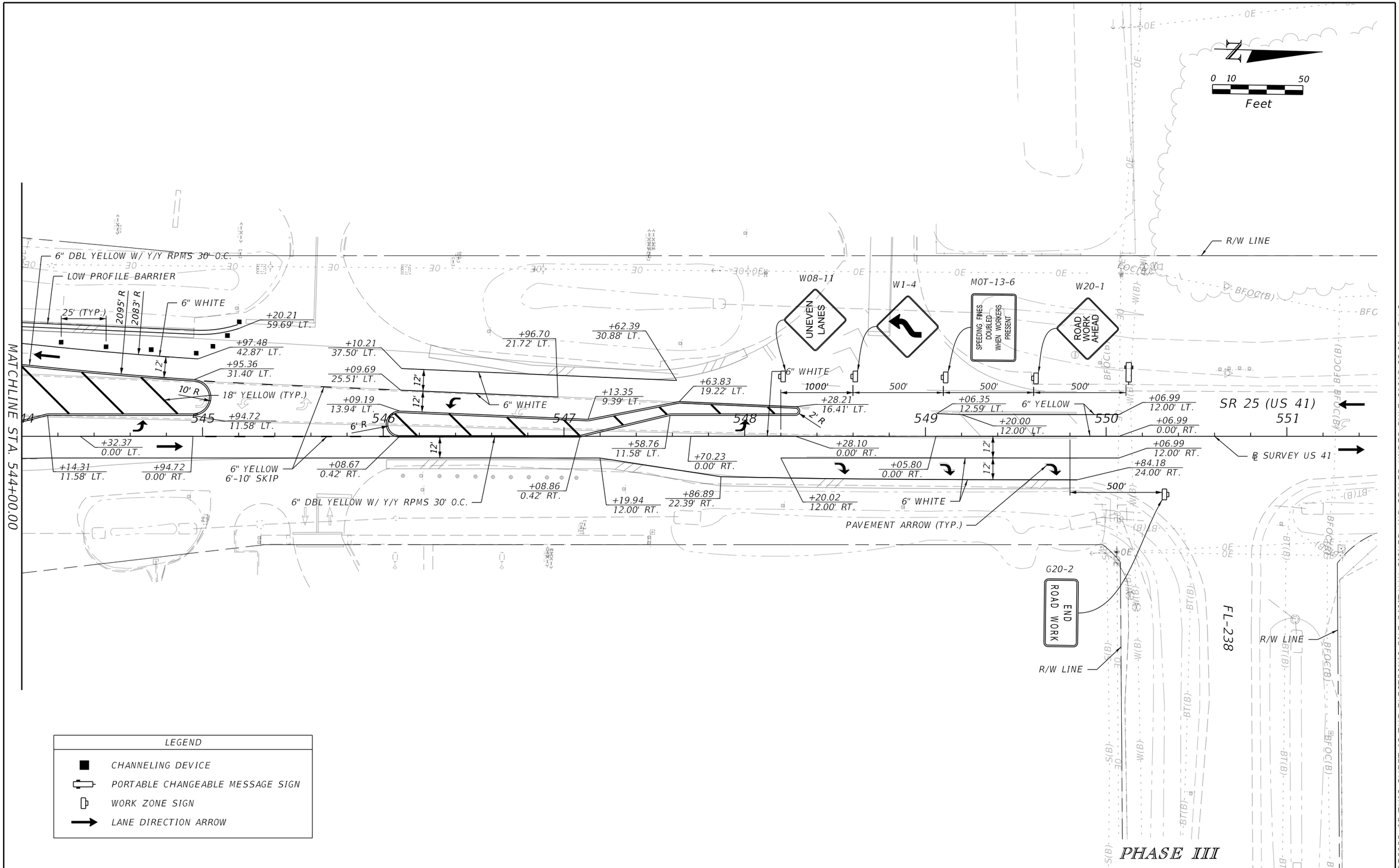

REVISIONS			
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LICENSE NUMBER: 64090
OSIRIS 9 CONSULTING, LLC
13421 BARTRAM PARK BLVD STE 1109
JACKSONVILLE, FL 32258

COLUMBIA CO BOCC

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 25	COLUMBIA	445725-5-54-02

TEMPORARY TRAFFIC CONTROL PLAN - US 41 (5)

SHEET NO. 120

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T:\WorkSets\Columbia County\44572515201\Roadway\TCPLRD03.dgn : PLAN 5 [SHEET]
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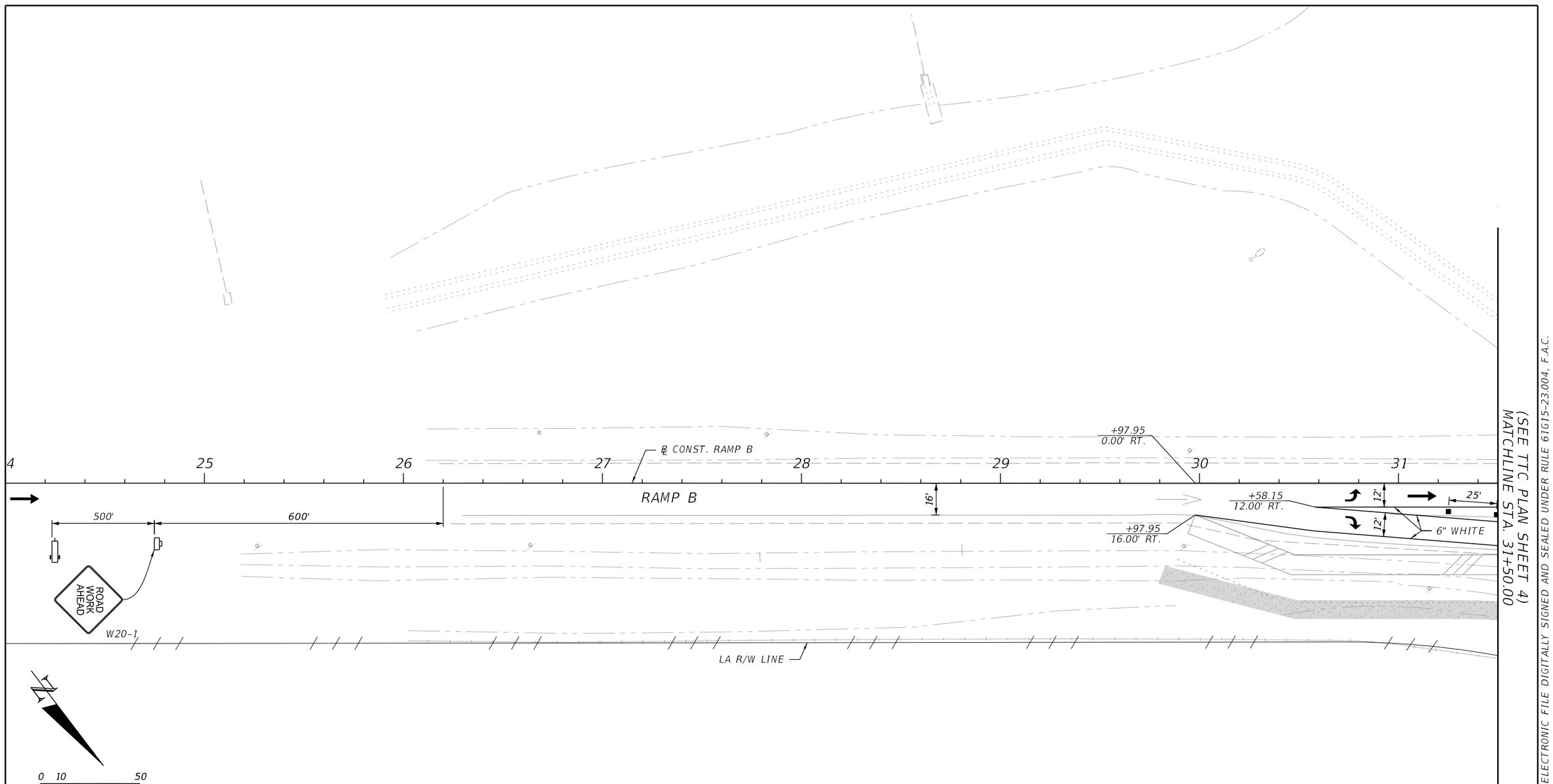

PHASE III

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

BRYON S. WUCZYNSKI, P.E.
LICENSE NUMBER: 64090
OSIRIS 9 CONSULTING, LLC
13421 BARTRAM PARK BLVD STE 1109
JACKSONVILLE, FL 32258

COLUMBIA CO BOCC		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 25	COLUMBIA	445725-5-54-02

TEMPORARY TRAFFIC CONTROL PLAN - RAMP B

SHEET NO. 121

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N

0 10 50
Feet

(SEE TTC PLAN SHEET 4)
MATCHLINE STA. 42+00.00

43 44 45 46 47 48 49

℄ CONST. RAMP C

RAMP C

+55.10
12.00' RT.

+50.60
0.00' RT.

+50.60
12.00' RT.

+50.60
24.00' RT.

+10.60
0.00' RT.

+10.60
16.00' RT.

6" YELLOW

6" WHITE

6" WHITE 10'-30' SKIP

PAVEMENT ARROW (TYP.)

PAVEMENT MESSAGE (TYP.)

LA R/W LINE

12'

12'

16'

200'

R 1030'

2%

2%

END ROAD WORK

G20-2

LEGEND	
→	LANE DIRECTION ARROW
	WORK ZONE SIGN

PHASE III

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

BRYON S. WUCZYNSKI, P.E.
LICENSE NUMBER: 64090
OSIRIS 9 CONSULTING, LLC
13421 BARTRAM PARK BLVD STE 1109
JACKSONVILLE, FL 32258

COLUMBIA CO BOCC

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 25	COLUMBIA	445725-1-54-02

TEMPORARY TRAFFIC CONTROL PLAN - RAMP C

SHEET NO. 122

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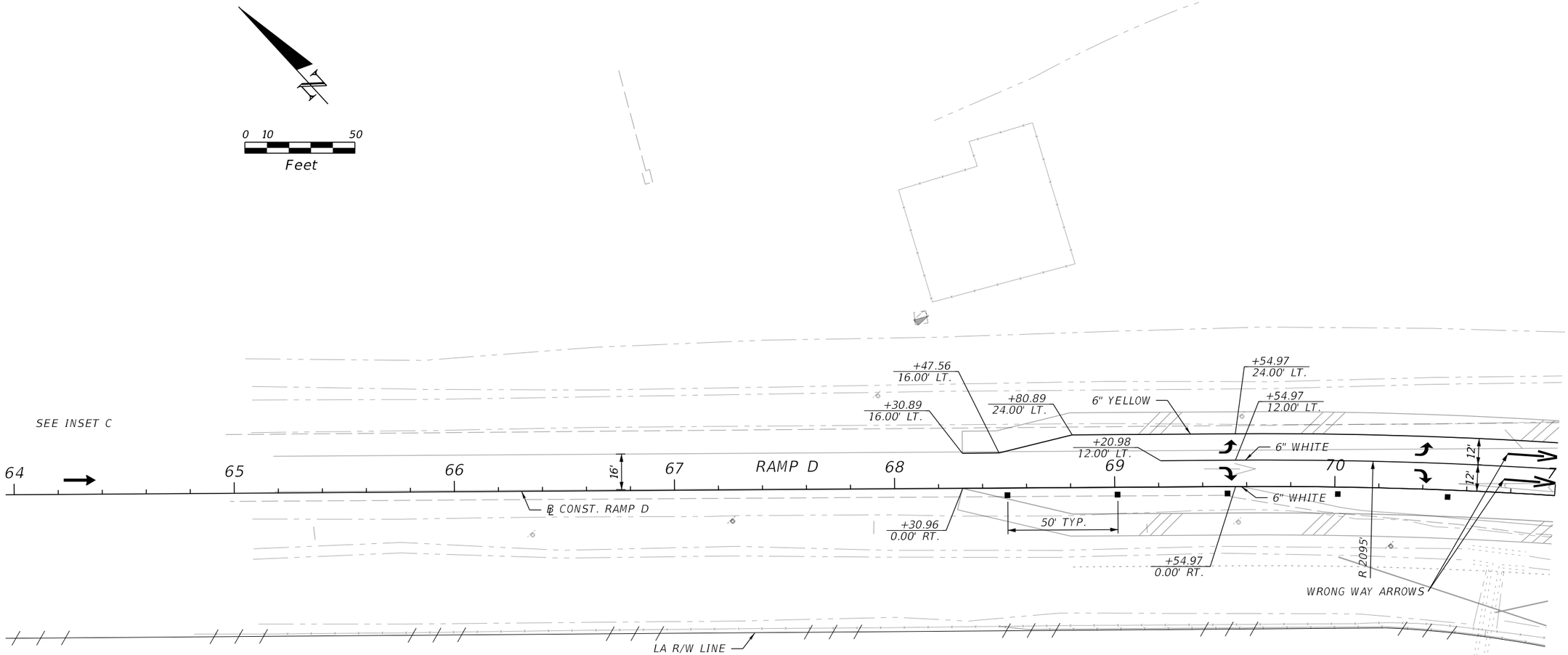

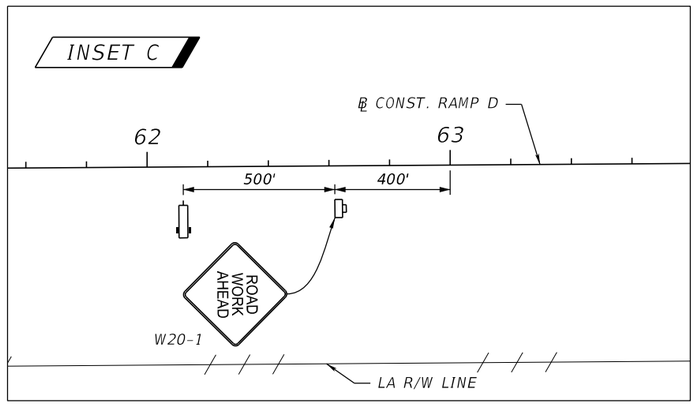

LEGEND	
→	LANE DIRECTION ARROW
▯	WORK ZONE SIGN
▭	PORTABLE CHANGEABLE MESSAGE SIGN

PHASE III

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

BRYON S. WUCZYNSKI, P.E.
LICENSE NUMBER: 64090
OSIRIS 9 CONSULTING, LLC
13421 BARTRAM PARK BLVD STE 1109
JACKSONVILLE, FL 32258

COLUMBIA CO BOCC

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 25	COLUMBIA	445725-5-54-02

TEMPORARY TRAFFIC CONTROL PLAN - RAMP D

SHEET NO. 123

(SEE TTC PLAN SHEET 3)
MATCHLINE STA. 71+00.00

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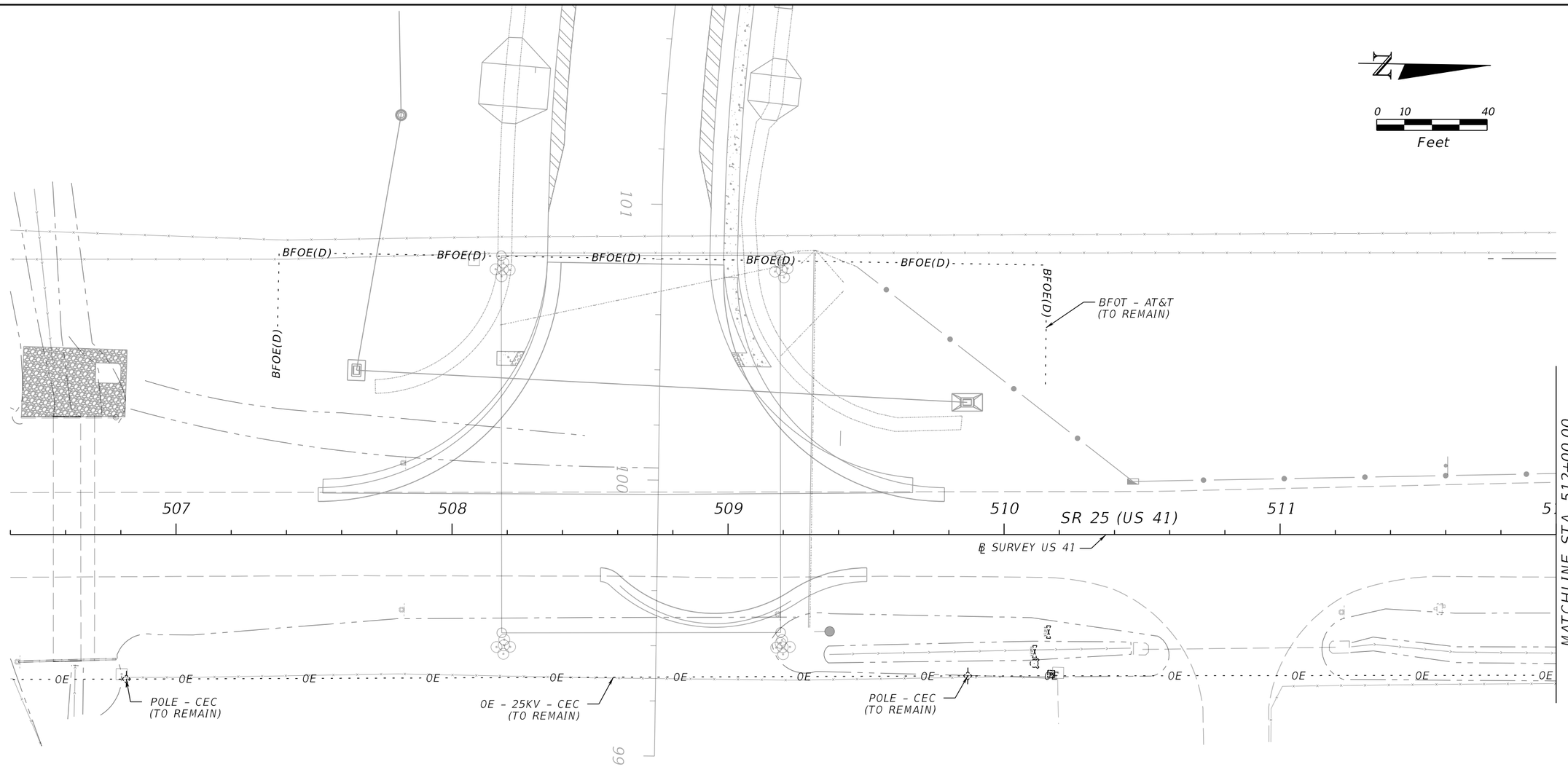

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REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

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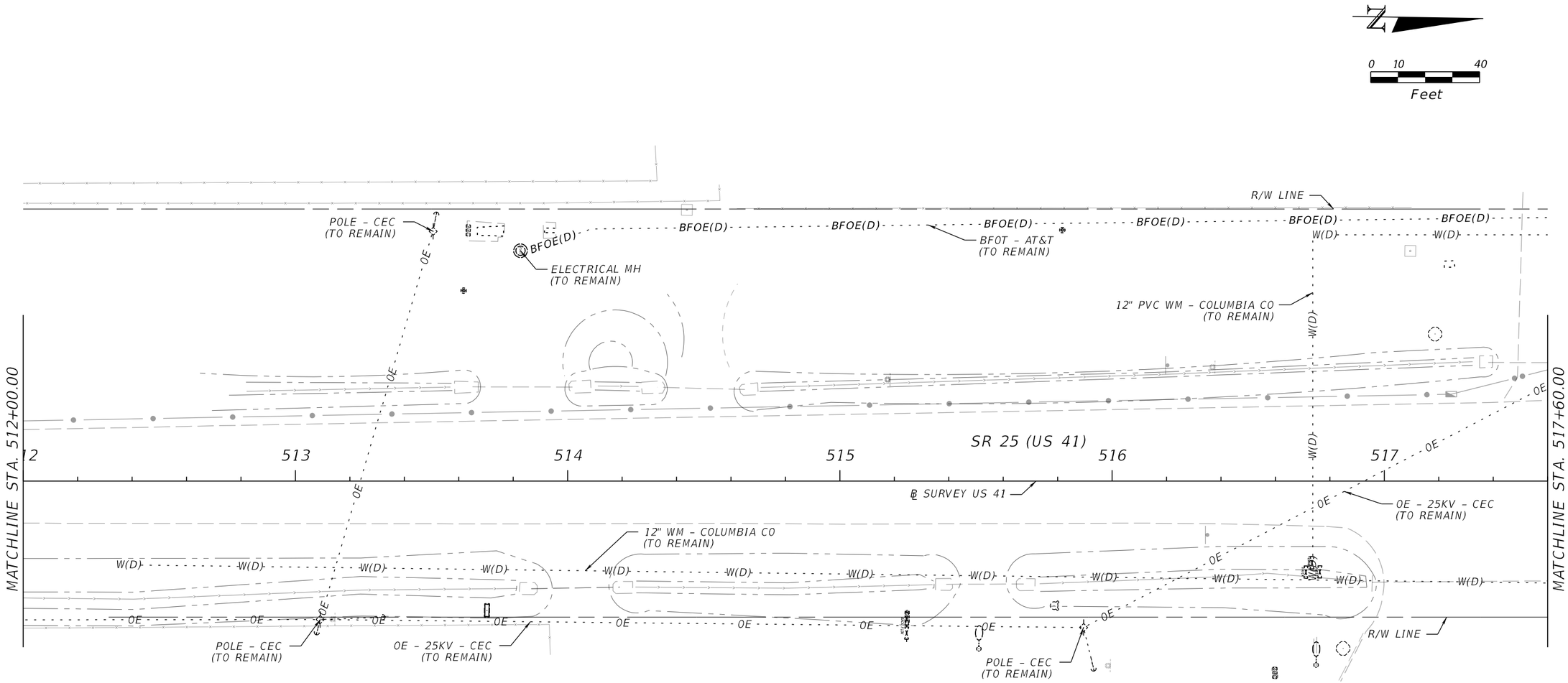
LICENSE NUMBER: 64090
OSIRIS 9 CONSULTING, LLC
13241 BARTRAM PARK BLVD STE 1109
JACKSONVILLE, FL 32258

COLUMBIA CO BOCC

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 25	COLUMBIA	445725-5-54-02

UTILITY ADJUSTMENTS

SHEET NO. 124



REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

BRYON S. WUCZYNSKI, P.E.
LICENSE NUMBER: 64090
OSIRIS 9 CONSULTING, LLC
13241 BARTRAM PARK BLVD STE 1109
JACKSONVILLE, FL 32258

COLUMBIA CO BOCC

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 25	COLUMBIA	445725-5-54-02

UTILITY ADJUSTMENTS

SHEET NO. 125

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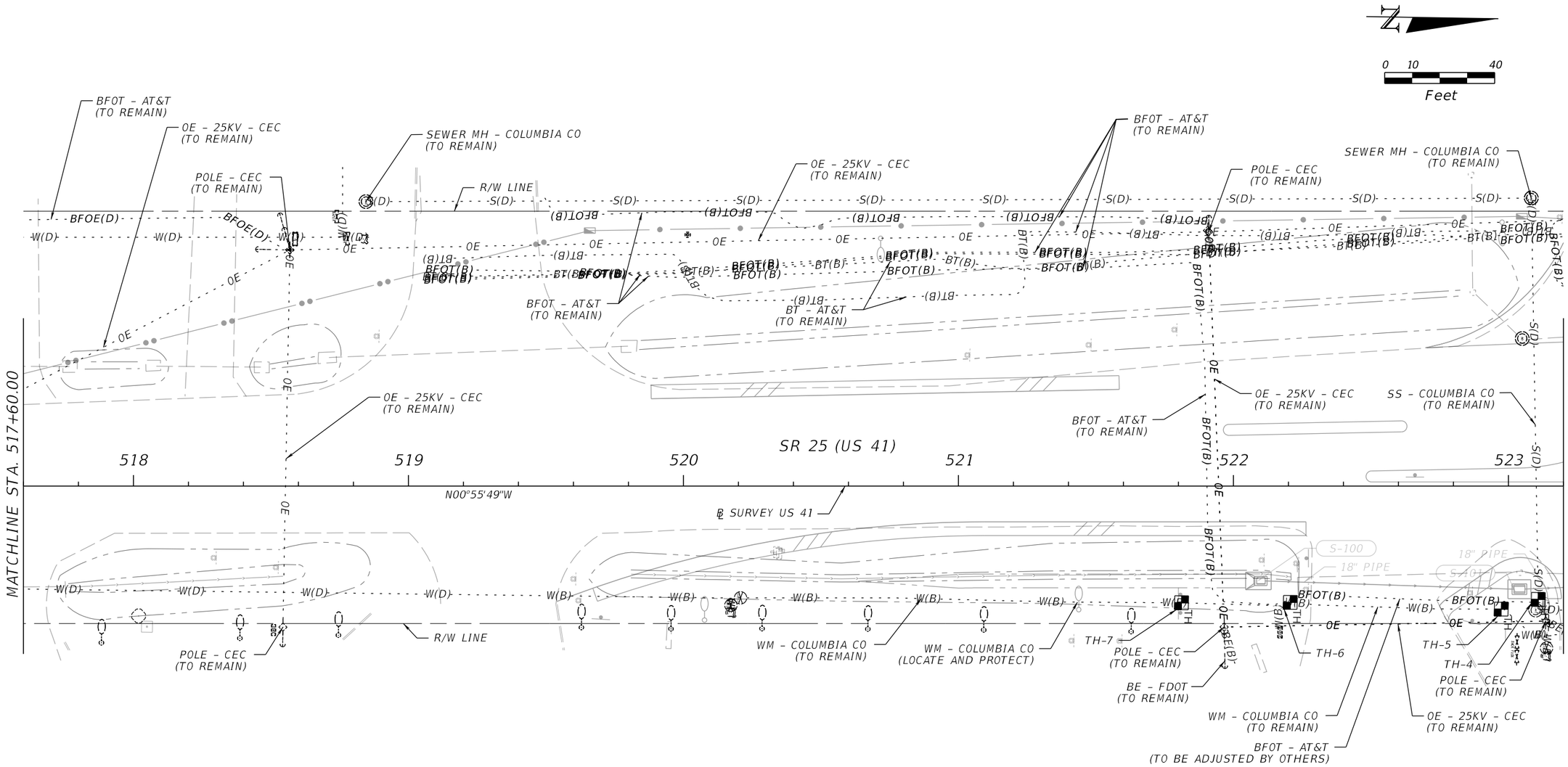

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REVISIONS			
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OSIRIS 9 CONSULTING, LLC
13241 BARTRAM PARK BLVD STE 1109
JACKSONVILLE, FL 32258

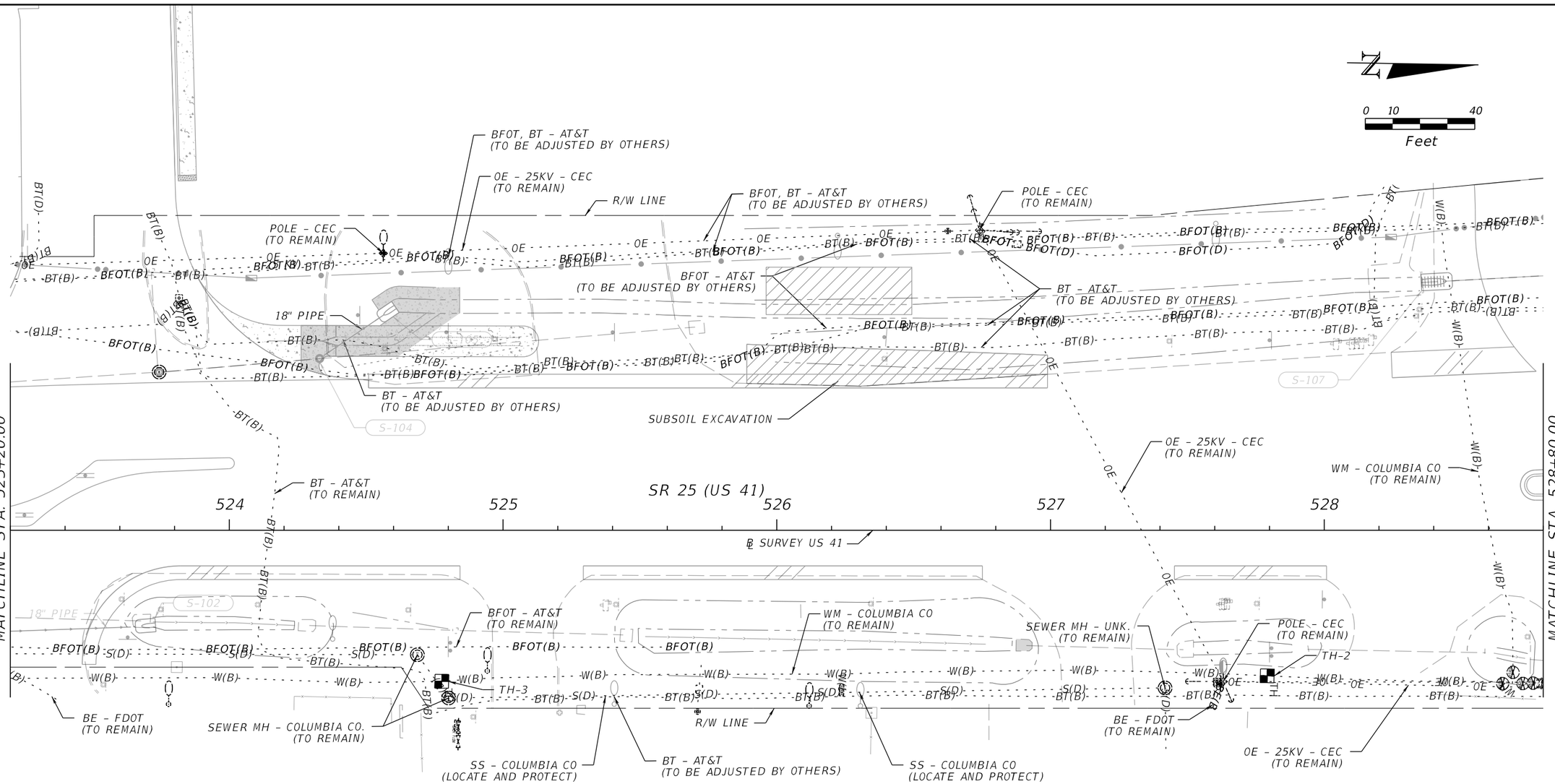
COLUMBIA CO BOCC

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 25	COLUMBIA	445725-5-54-02

UTILITY ADJUSTMENTS

SHEET NO. 126

T:\WorkSets\Columbia County\44572515201\Utilities\PLANUW01.dgn : US 41 – PLAN 3 [SHEET]
kmorgan 8/29/2025 3:17:17 PM



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REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

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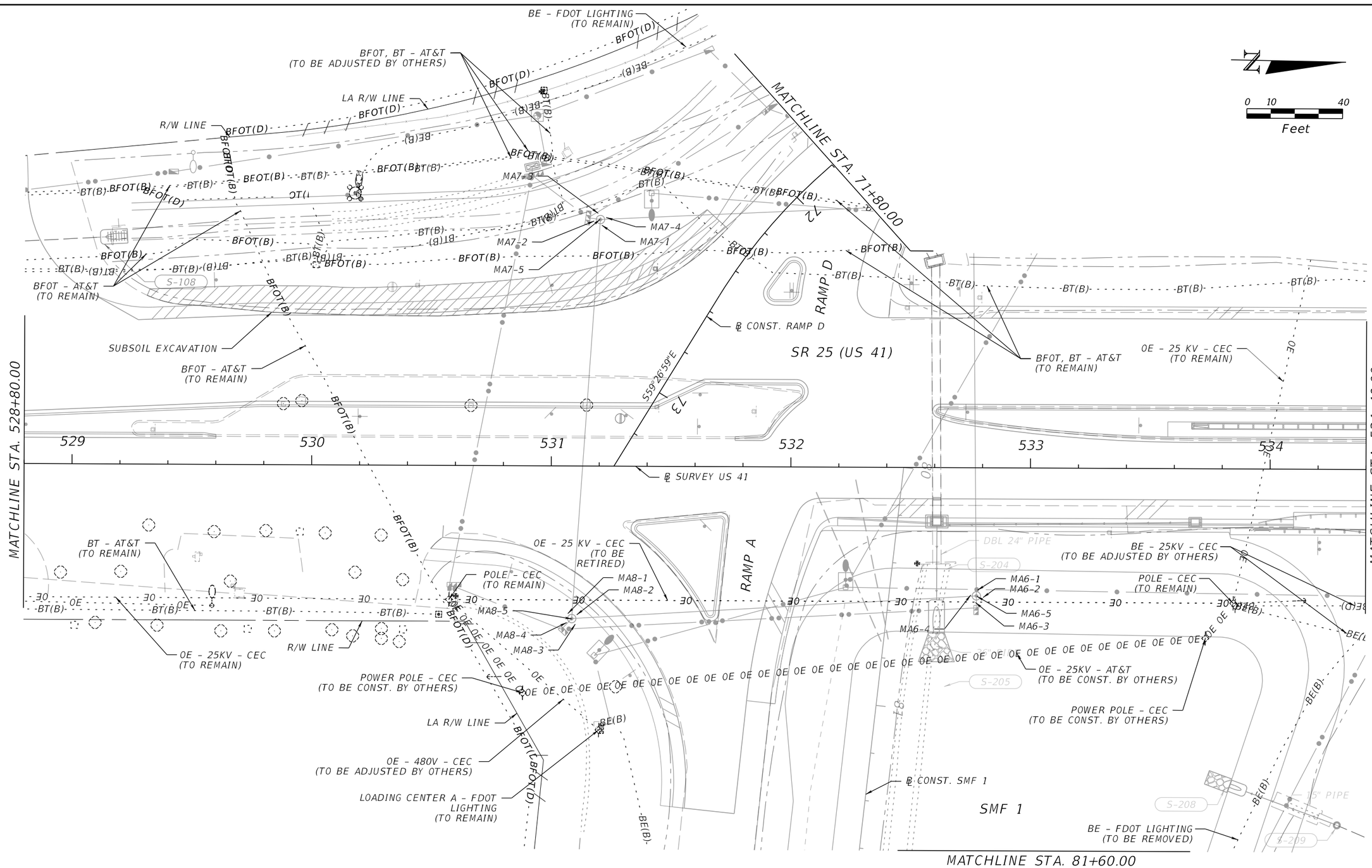
13241 BARTRAM PARK BLVD STE 1109
JACKSONVILLE, FL 32258

COLUMBIA CO BOCC

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 25	COLUMBIA	445725-5-54-02

UTILITY ADJUSTMENTS

SHEET NO. 127



REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

BRYON S. WUCZYNSKI, P.E.
LICENSE NUMBER: 64090
OSIRIS 9 CONSULTING, LLC
13241 BARTRAM PARK BLVD STE 1109
JACKSONVILLE, FL 32258

COLUMBIA CO BOCC		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 25	COLUMBIA	445725-5-54-02

UTILITY ADJUSTMENTS

SHEET NO. 128

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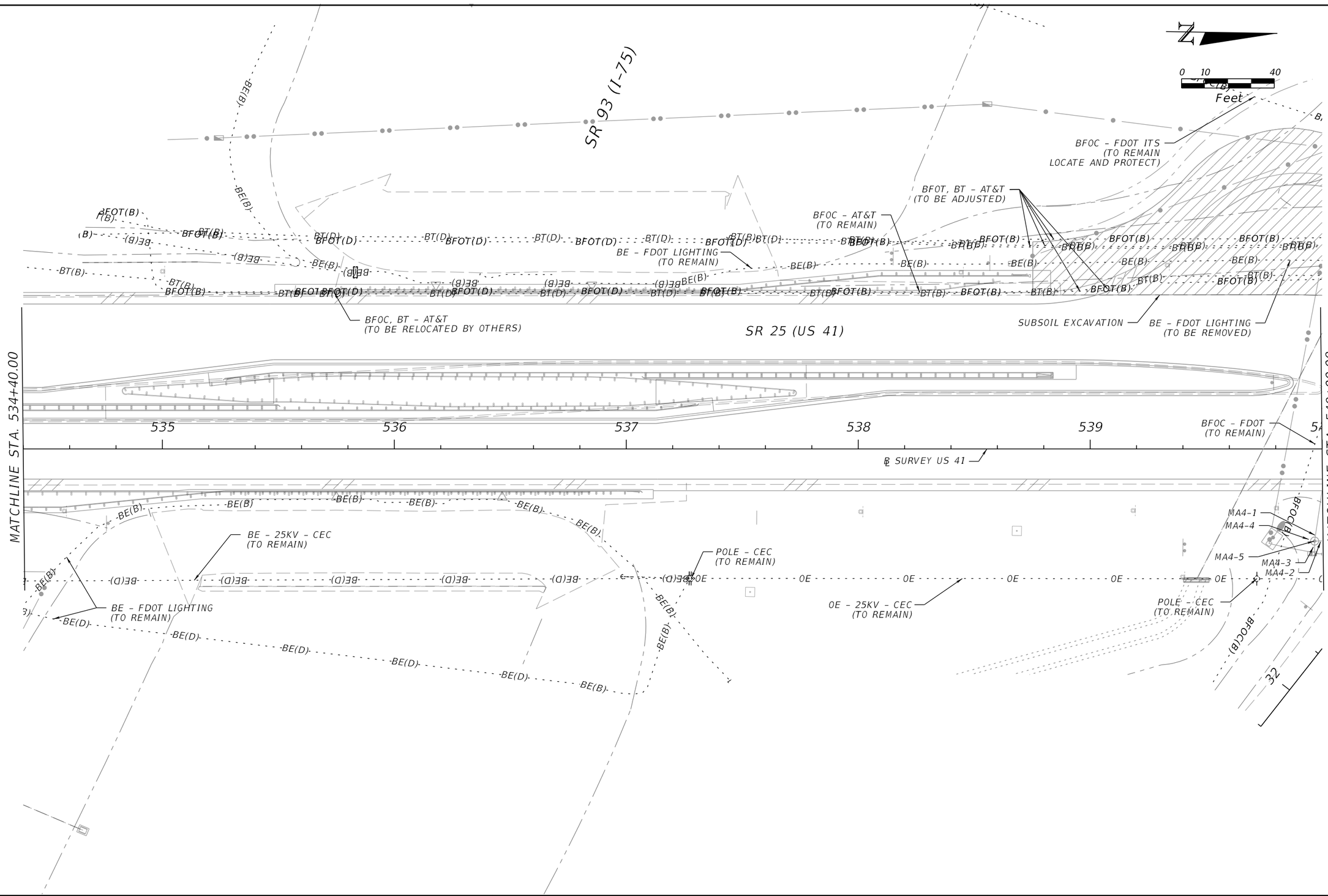

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REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

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OSIRIS 9 CONSULTING, LLC
13241 BARTRAM PARK BLVD STE 1109
JACKSONVILLE, FL 32258

COLUMBIA CO BOCC

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 25	COLUMBIA	445725-5-54-02

UTILITY ADJUSTMENTS

SHEET NO. 129

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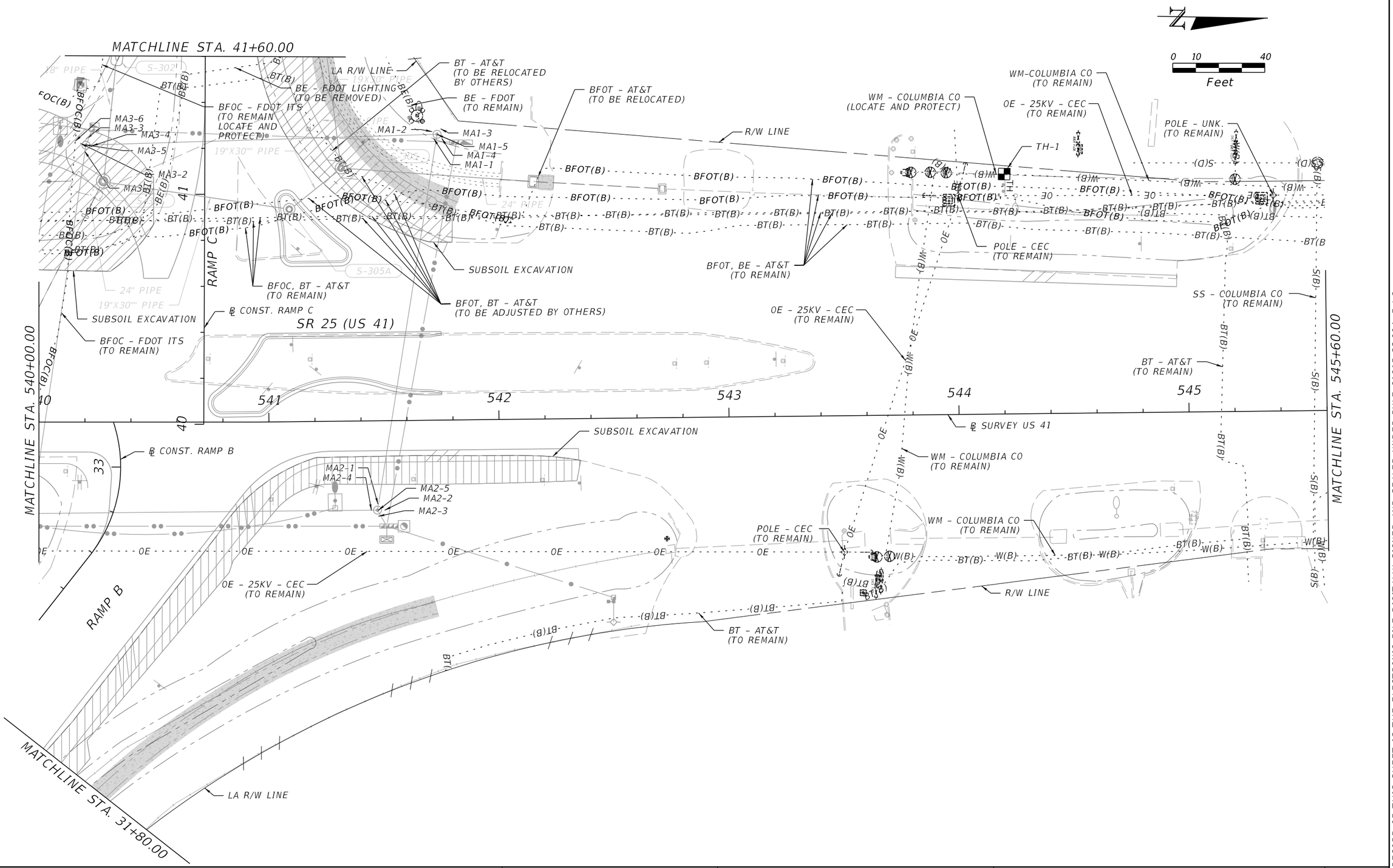

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REVISIONS			
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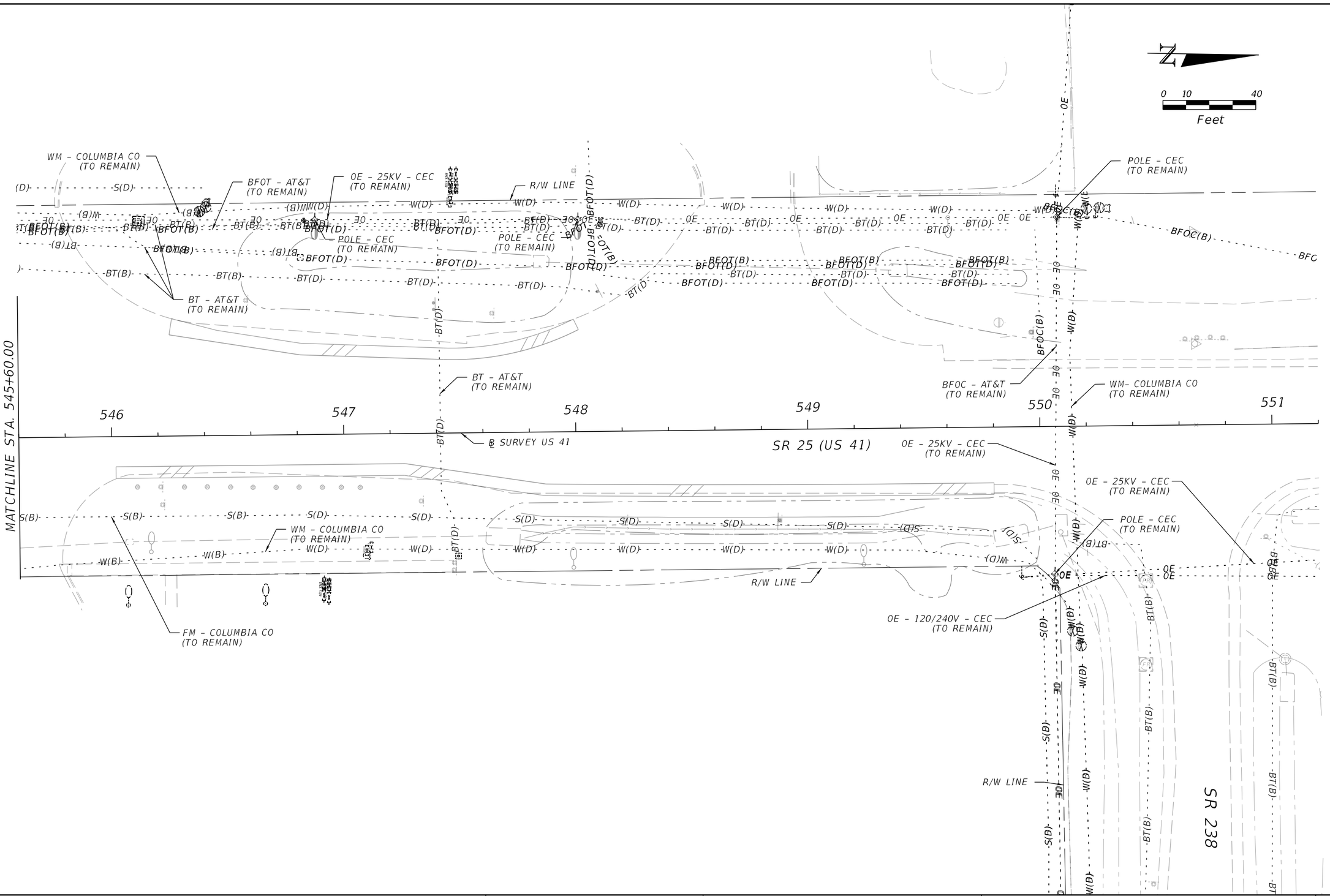
LICENSE NUMBER: 64090
OSIRIS 9 CONSULTING, LLC
13241 BARTRAM PARK BLVD STE 1109
JACKSONVILLE, FL 32258

COLUMBIA CO BOCC

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 25	COLUMBIA	445725-5-54-02

UTILITY ADJUSTMENTS

SHEET NO. 130



REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

BRYON S. WUCZYNSKI, P.E.
LICENSE NUMBER: 64090
OSIRIS 9 CONSULTING, LLC
13241 BARTRAM PARK BLVD STE 1109
JACKSONVILLE, FL 32258

COLUMBIA CO BOCC

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 25	COLUMBIA	445725-5-54-02

UTILITY ADJUSTMENTS

SHEET NO. 131

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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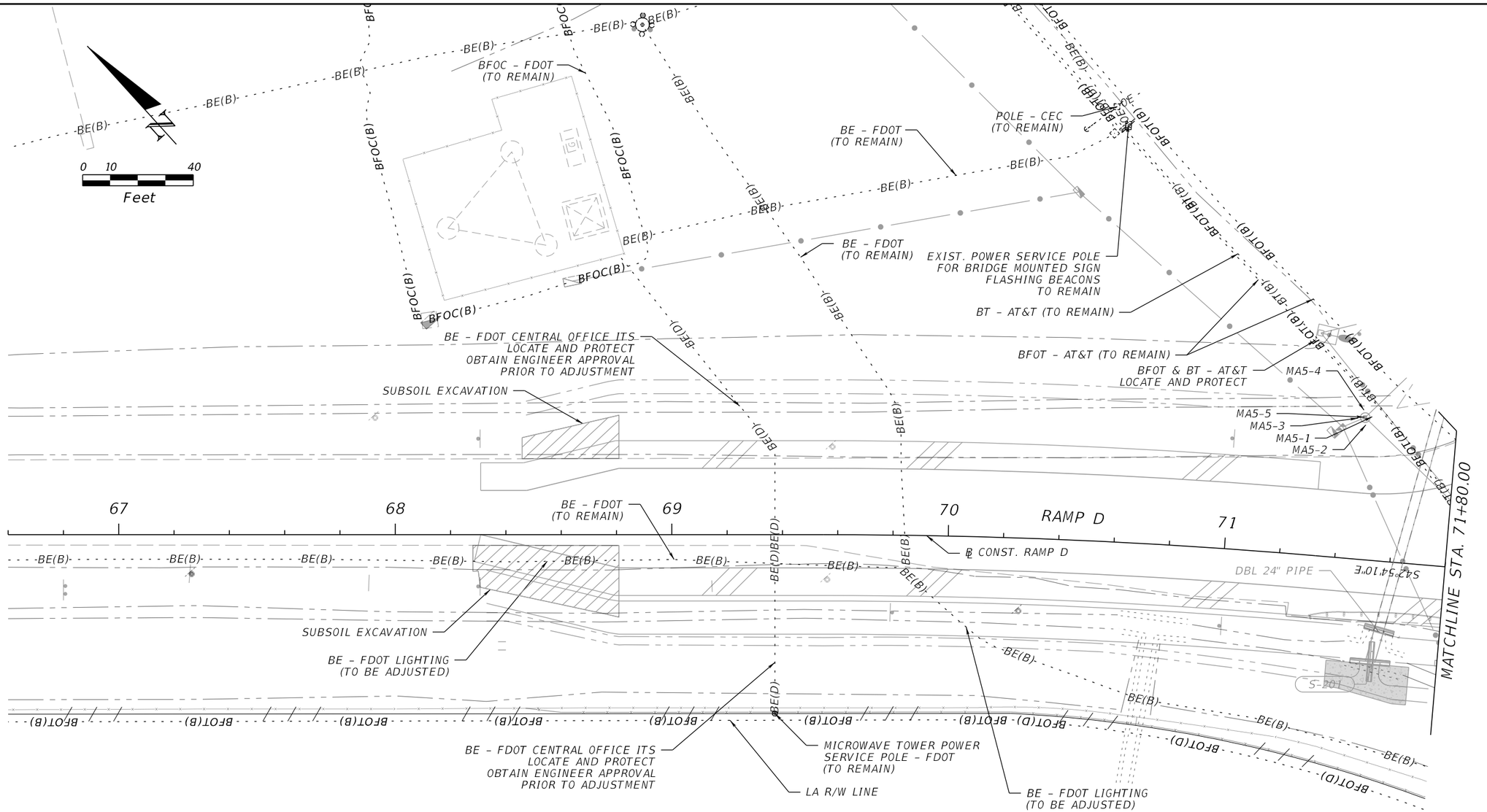

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COLUMBIA CO BOCC

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 25	COLUMBIA	445725-5-54-02

UTILITY ADJUSTMENTS

SHEET NO. 132

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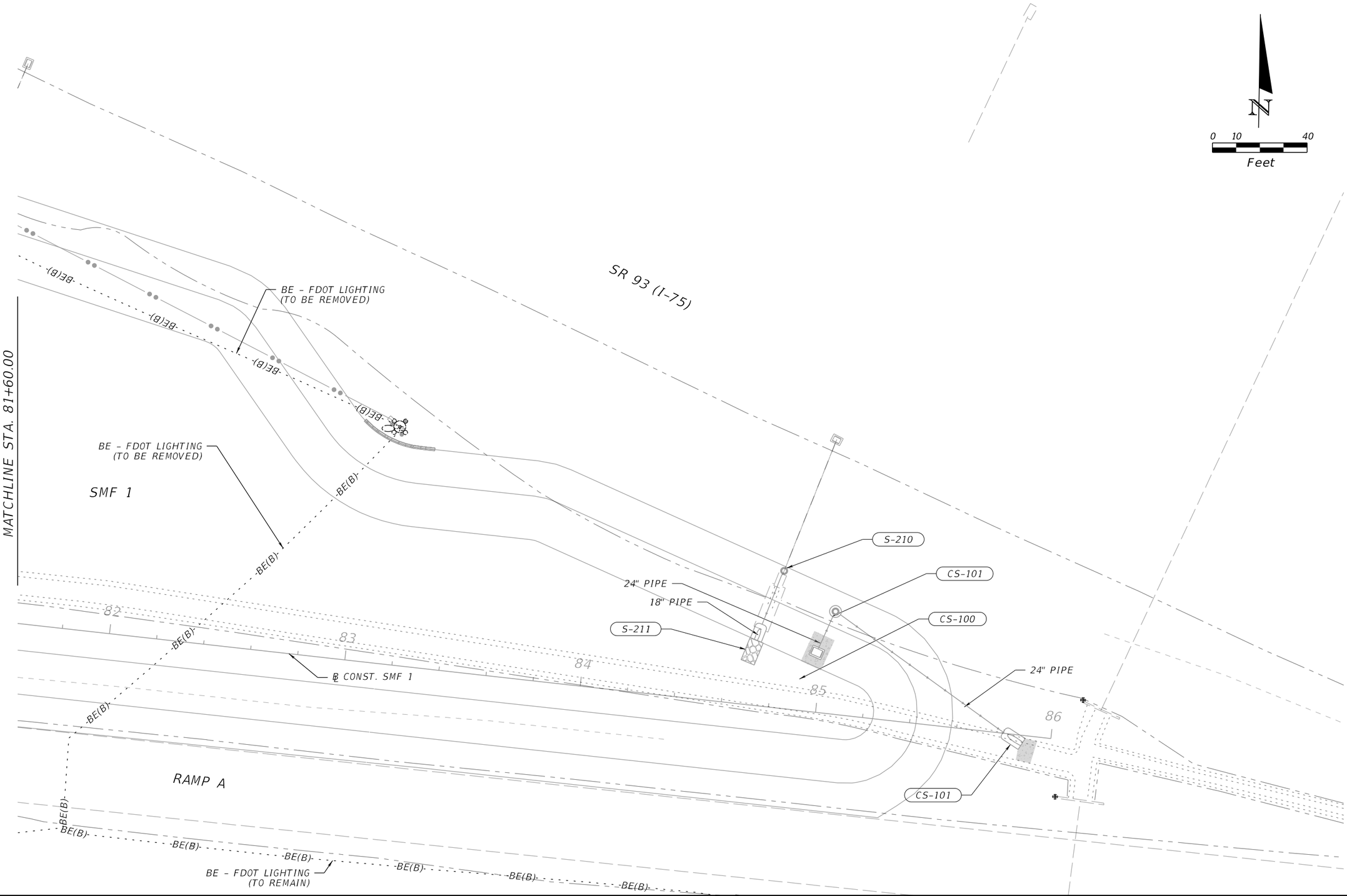

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OSIRIS 9 CONSULTING, LLC
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JACKSONVILLE, FL 32258

COLUMBIA CO BOCC

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 25	COLUMBIA	445725-5-54-02

UTILITY ADJUSTMENTS

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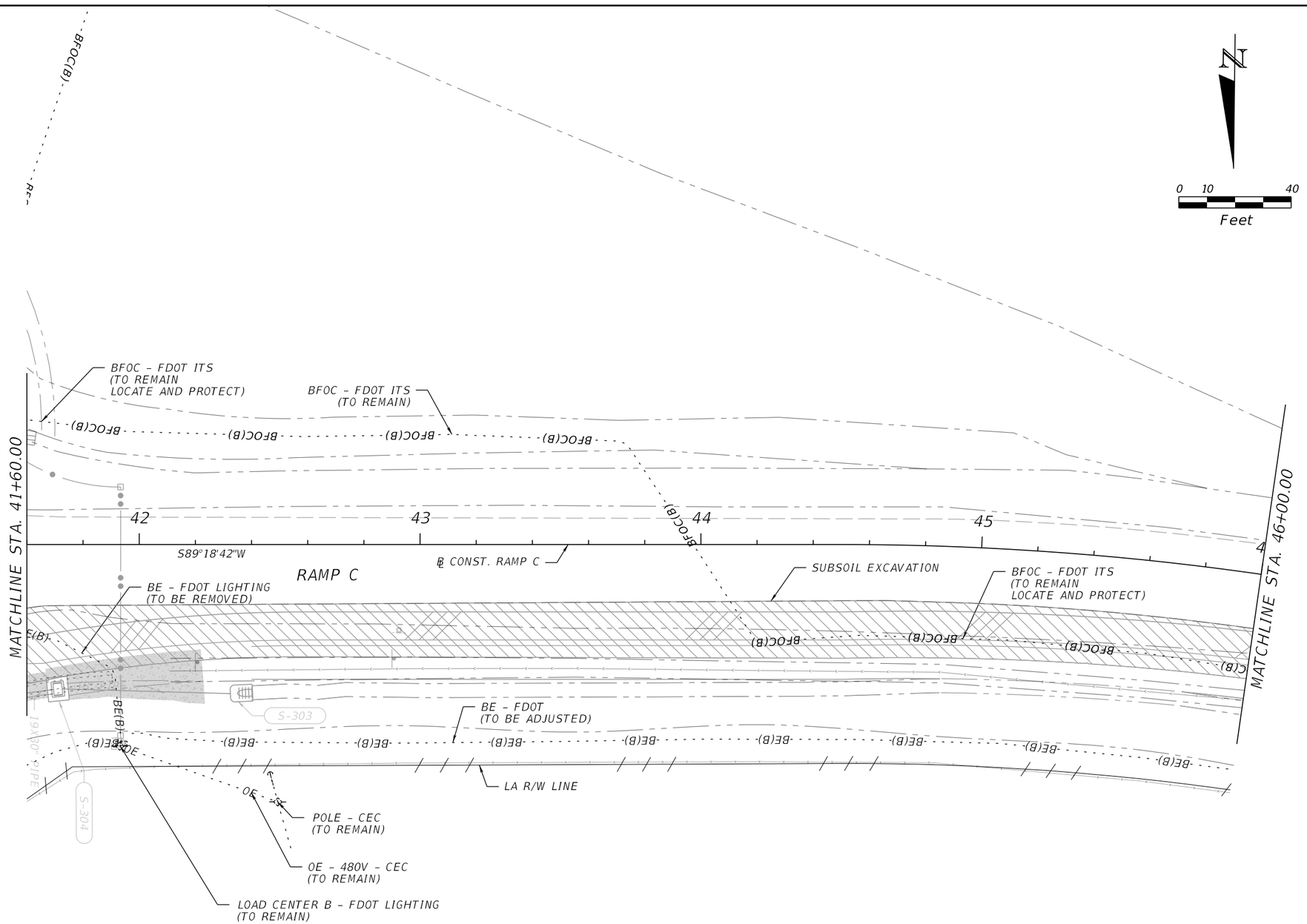

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OSIRIS 9 CONSULTING, LLC
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JACKSONVILLE, FL 32258

COLUMBIA CO BOCC

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 25	COLUMBIA	445725-5-54-02

UTILITY ADJUSTMENTS

SHEET NO. 134

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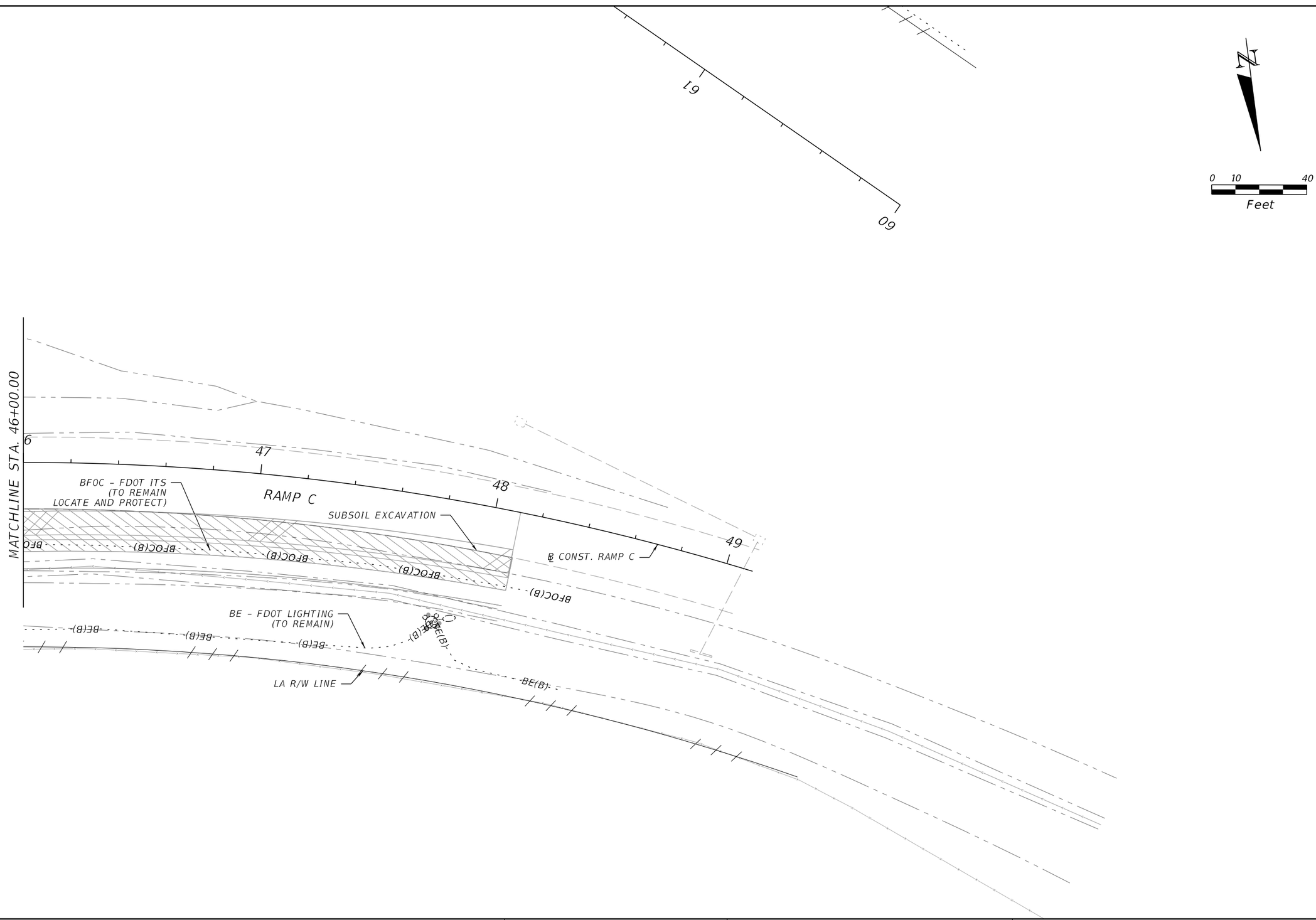

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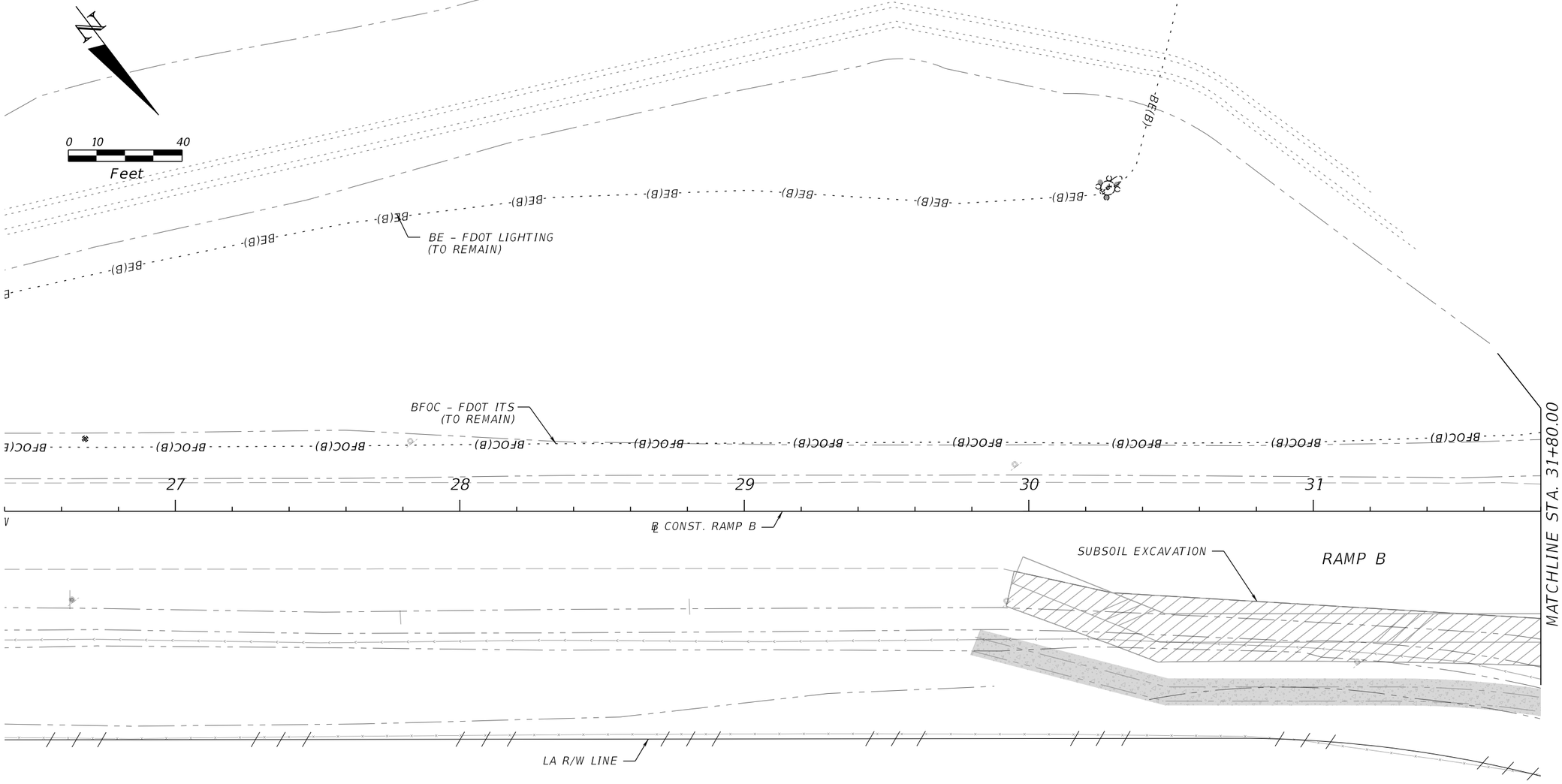
COLUMBIA CO BOCC

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 25	COLUMBIA	445725-5-54-02

UTILITY ADJUSTMENTS

SHEET NO. 135



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13241 BARTRAM PARK BLVD STE 1109
JACKSONVILLE, FL 32258

COLUMBIA CO BOCC

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 25	COLUMBIA	445725-5-54-02

UTILITY ADJUSTMENTS

SHEET NO. 136

SUMMARY OF VERIFIED UTILITIES

Vvh #	UTILITY DESCRIPTION (OWNER, TYPE)	SIZE	MATERIALS	LOCATION			EXISTING GROUND ELEVATION	TOP ELEVATION	DEPTH	COMMENTS
				STATION	OFFSET	LT/RT				
TH1	Columbia County, WL	12"	PVC	544+20.76	104.3	Lt	73.02	69.42	3.60	
TH2	Columbia County, WL	12"	PVC	527+79.16	53.2	Rt	72.86	69.04	3.82	
TH3	Columbia County, WL	12"	UNK	524+77.61	55.2	Rt	78.99	69.03	9.96	TH 3 SIZE IS ESTIMATED. MEASURED FROM PROBE ON EACH SIDE OF PIPE. NOT VISUALLY VERIFIED DUE TO DEPTH AND GROUND WATER
TH4	Columbia County, SAN	8"	PVC	523+10.85	41.2	Rt	82.32	75.02	7.30	TH 4 SIZE MEASURED FROM SURVEY INVERT. UNABLE TO VISUALLY VERIFY DUE TO DEPTH AND GROUND WATER
TH5	Columbia County, WL	12"	CI	522+97.40	44.8	Rt	82.91	79.81	3.10	
TH6	Columbia County, WL	12"	PVC	522+20.66	42.3	Rt	83.84	81.08	2.76	
TH7	Columbia County, WL	12"	PVC	521+81.11	42.5	Rt	84.36	80.36	4.00	
MA1-1		EXPLORATORY, NO UTILITY FOUND		541+72.96	122.5	Lt	VACUUM 5' PROBE 12.5'			
MA1-2		EXPLORATORY, NO UTILITY FOUND		541+72.29	125.5	Lt	VACUUM 5' PROBE 12.5'			
MA1-3		EXPLORATORY, NO UTILITY FOUND		541+75.99	126.7	Lt	VACUUM 5' PROBE 12.5'			
MA1-4		EXPLORATORY, NO UTILITY FOUND		541+76.45	122.5	Lt	VACUUM 5' PROBE 12.5'			
MA1-5		EXPLORATORY, NO UTILITY FOUND		541+74.73	124.3	Lt	VACUUM 5' PROBE 12.5'			
MA2-1		EXPLORATORY, NO UTILITY FOUND		541+47.01	36.2	Rt	VACUUM 5' PROBE 12.5'			
MA2-2		EXPLORATORY, NO UTILITY FOUND		541+49.84	39.0	Rt	VACUUM 5' PROBE 12.5'			
MA2-3		EXPLORATORY, NO UTILITY FOUND		541+47.07	41.5	Rt	VACUUM 5' PROBE 12.5'			
MA2-4		EXPLORATORY, NO UTILITY FOUND		541+44.11	38.9	Rt	VACUUM 5' PROBE 12.5'			
MA2-5		EXPLORATORY, NO UTILITY FOUND		541+47.13	38.9	Rt	VACUUM 5' PROBE 12.5'			
MA3-1		EXPLORATORY, NO UTILITY FOUND		540+19.84	117.9	Lt	VACUUM 5' PROBE 12.5'			
MA3-2		EXPLORATORY, NO UTILITY FOUND		540+18.04	121.2	Lt	VACUUM 5' PROBE 12.5'			
MA3-3		EXPLORATORY, NO UTILITY FOUND		541+20.56	123.2	Lt	VACUUM 5' PROBE 12.5'			
MA3-4		EXPLORATORY, NO UTILITY FOUND		540+22.96	120.1	Lt	VACUUM 5' PROBE 12.5'			
MA3-5		EXPLORATORY, NO UTILITY FOUND		540+20.35	120.5	Lt	VACUUM 5' PROBE 12.5'			
MA3-6	FDOT, FO	4"	PVC	540+15.79	122.2	Lt	67.91	62.25	5.66	4.8' FROM CENTER
MA4-1		EXPLORATORY, NO UTILITY FOUND		539+96.89	37.2	Rt	VACUUM 5' PROBE 12.5'			
MA4-2		EXPLORATORY, NO UTILITY FOUND		539+99.33	40.1	Rt	VACUUM 5' PROBE 12.5'			
MA4-3		EXPLORATORY, NO UTILITY FOUND		539+96.21	42.3	Rt	VACUUM 5' PROBE 12.5'			
MA4-4		EXPLORATORY, NO UTILITY FOUND		539+94.21	39.1	Rt	VACUUM 5' PROBE 12.5'			
MA4-5		EXPLORATORY, NO UTILITY FOUND		539+96.48	39.8	Rt	VACUUM 5' PROBE 12.5'			
MA5-1		EXPLORATORY, NO UTILITY FOUND		532+74.14	108.3	Lt	VACUUM 5' PROBE 12.5'			
MA5-2		EXPLORATORY, NO UTILITY FOUND		532+73.57	112.1	Lt	VACUUM 5' PROBE 12.5'			
MA5-3		EXPLORATORY, NO UTILITY FOUND		532+77.30	112.4	Lt	VACUUM 5' PROBE 12.5'			
MA5-4		EXPLORATORY, NO UTILITY FOUND		532+77.94	108.9	Lt	VACUUM 5' PROBE 12.5'			
MA5-5		EXPLORATORY, NO UTILITY FOUND		532+76.00	110.5	Lt	VACUUM 5' PROBE 12.5'			
MA6-1		EXPLORATORY, NO UTILITY FOUND		532+78.07	21.1	Rt	VACUUM 5' PROBE 12.5'			
MA6-2		EXPLORATORY, NO UTILITY FOUND		532+80.38	54.2	Rt	VACUUM 5' PROBE 12.5'			
MA6-3		EXPLORATORY, NO UTILITY FOUND		532+77.25	56.2	Rt	VACUUM 5' PROBE 12.5'			
MA6-4		EXPLORATORY, NO UTILITY FOUND		532+75.27	53.1	Rt	VACUUM 5' PROBE 12.5'			
MA6-5		EXPLORATORY, NO UTILITY FOUND		532+77.84	53.7	Rt	VACUUM 5' PROBE 12.5'			
MA7-1		EXPLORATORY, NO UTILITY FOUND		531+20.65	100.6	Lt	VACUUM 5' PROBE 12.5'			
MA7-2		EXPLORATORY, NO UTILITY FOUND		531+17.45	102.3	Lt	VACUUM 5' PROBE 12.5'			
MA7-3		EXPLORATORY, NO UTILITY FOUND		531+19.13	105.5	Lt	VACUUM 5' PROBE 12.5'			
MA7-4		EXPLORATORY, NO UTILITY FOUND		531+22.43	103.8	Lt	VACUUM 5' PROBE 12.5'			
MA7-5		EXPLORATORY, NO UTILITY FOUND		531+19.94	103.0	Lt	VACUUM 5' PROBE 12.5'			
MA8-1		EXPLORATORY, NO UTILITY FOUND		531+07.16	61.7	Rt	VACUUM 5' PROBE 12.5'			
MA8-2		EXPLORATORY, NO UTILITY FOUND		531+10.88	62.1	Rt	VACUUM 5' PROBE 12.5'			
MA8-3		EXPLORATORY, NO UTILITY FOUND		531+10.32	66.0	Rt	VACUUM 5' PROBE 12.5'			
MA8-4		EXPLORATORY, NO UTILITY FOUND		531+06.74	65.4	Rt	VACUUM 5' PROBE 12.5'			
MA8-5		EXPLORATORY, NO UTILITY FOUND		531+08.89	63.9	Rt	VACUUM 5' PROBE 12.5'			

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REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

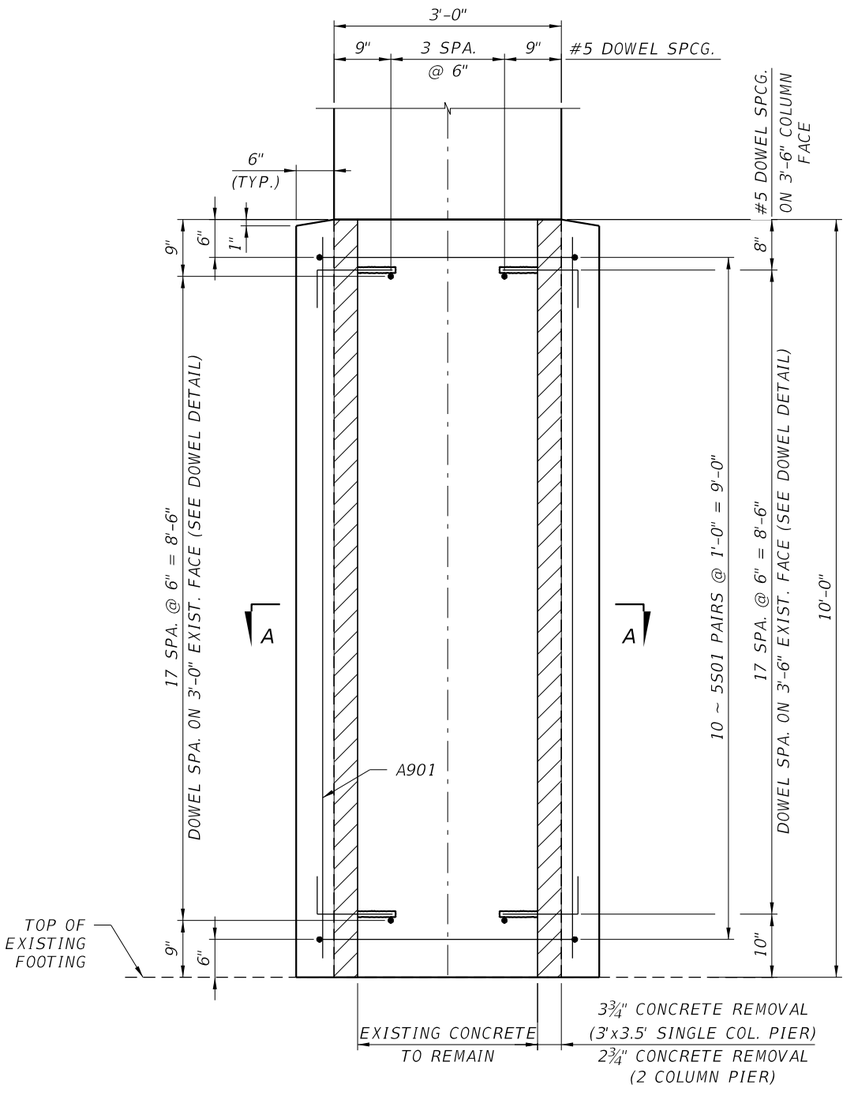
BRYON S. WUCZYNSKI, P.E.
LICENSE NUMBER: 64090
OSIRIS 9 CONSULTING, LLC
13241 BARTRAM PARK BLVD STE 1109
JACKSONVILLE, FL 32258

COLUMBIA CO BOCC

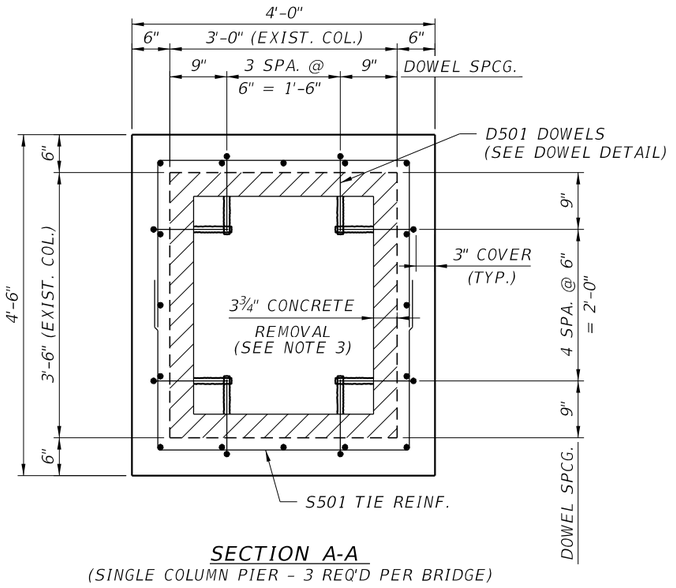
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 25	COLUMBIA	445725-5-54-02

SUMMARY OF VERIFIED UTILITIES

SHEET NO. 137

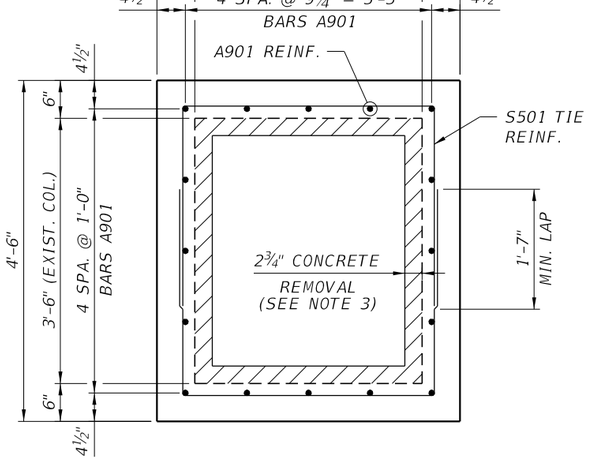


COLUMN ELEVATION VIEW



SECTION A-A

(SINGLE COLUMN PIER – 3 REQ'D PER BRIDGE)



SECTION A-A

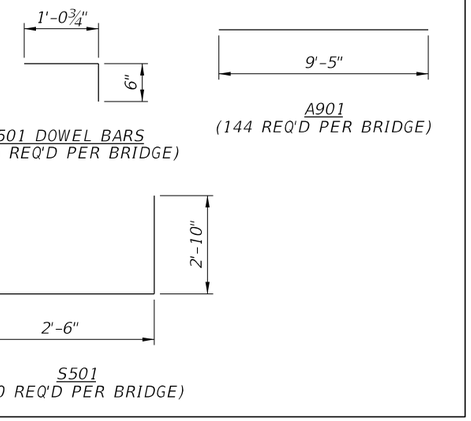
(2 COLUMN PIER – 6 REQ'D PER BRIDGE)
DOWELS NOT SHOWN FOR CLARITY

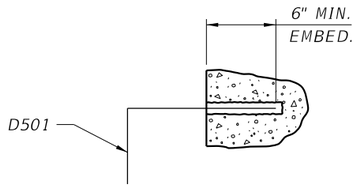
NOTES:

1. CONCRETE SHALL BE CLASS IV f'c = 5,500 psi. CONCRETE SHALL CONTAIN A SHRINKAGE REDUCING ADMIXTURE.
2. REINFORCING STEEL SHALL BE ASTM A615, GRADE 60.
3. AFTER CONCRETE REMOVAL, ROUGHEN CONCRETE INTERFACE SURFACE TO A MINIMUM AMPLITUDE OF ¼". CONCRETE SHALL HAVE A SATURATED SURFACE DRY CONDITION WHEN PLACING NEW CONCRETE.
4. COST OF INSTALLATION OF D501 DOWEL BARS TO BE INCLUDED IN CLASS IV BRIDGE SUBSTRUCTURE CONCRETE. USE AN ADHESIVE BONDING MATERIAL SYSTEM IN ACCORDANCE WITH SPECIFICATIONS SECTION 416 & 937.
5. REMOVE AND REPLACE EXISTING CONCRETE SLOPE PAVING ADJACENT TO COLUMNS TO BE STRENGTHENED AS REQUIRED. COST TO BE INCLUDED IN ITEM 524-2-2. SEE SLOPE PAVEMENT DETAILS IN EXISTING BRIDGE PLANS.

ESTIMATED QUANTITIES			
ITEM	UNIT	QUANTITY (BR. LT.)	QUANTITY (BR. RT.)
CONCRETE CLASS IV, BRIDGE SUBSTRUCTURE	CY	35.2	35.2
REINFORCING STEEL – BRIDGE SUBSTRUCTURE	LB	10,890	10,890
CONCRETE SLOPE PAVEMENT – REINFORCED, 4"	SY	46.6	46.6

REINFORCING STEEL BENDING DIAGRAMS





DOWEL DETAIL

(SEE NOTE 4)

BRIDGE NOS. 290053 & 290082

REVISIONS

DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

DANIEL T. MAXEY, P.E.
License Number: 38342
ARCADIS US, INC.
RIVERPLACE BLVD., SUITE 425
JACKSONVILLE, FLORIDA 32207

DRAWN BY: GSY 06-25
CHECKED BY: DTM 06-25
DESIGNED BY: DTM 06-25
CHECKED BY: GJM 06-25

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 25	COLUMBIA	445725-5-54-02

SHEET TITLE: PIER STRENGTHENING DETAILS

REF. DWG. NO.:

PROJECT NAME: I-75 OVER US 41

SHEET NO.: 138

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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FED. ROAD DIV. NO.	STATE	PROJECT NO.	FISCAL YEAR	SHEET NO.
3	FLA.			A-2

BID ITEM NOTES:

1. Payment for incidental items not specifically covered in the individual bid items shall be included in the contract prices for the bid items.
2. For Summary of Bridge Pay Items, see print of Computer Printout.
3. The following number of Composite Neoprene Bearing Pads shall be furnished and installed by the contractor:

   I-75 Over Santa Fe River: Type II-144

   I-75 Over S.R. 25: Type II-72

4. The approximate area of existing structure to be removed equals :

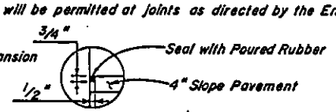
   I-75 Over Santa Fe River :2940 Sq. Ft. (Left or Right Bridge)
   I-75 Over S.R. 25 :1553 Sq. Ft. (Left or Right Bridge)

4. 5. Working Platforms at the Santa Fe River site shall have Navigational Clearance Lights. The Contractor shall provide a Navigational Clearance Light Plan to be approved by the Engineer prior to their installation.
   The unit cost associated with providing the Working Platforms and the Navigational Lights shall be included in Bid Item No. 101-1 Mobilization.
   No associated fill or excavation is permitted within the DER jurisdictional wetlands or waterways for construction of the Temporary Working Platforms.
   Vegetation within the area where the Temporary Working Platforms are placed will be hand-cleared (no clearing with bulldozers or similar heavy equipment will be permitted.)

1 **PILES:** Piles should be driven to a design load of 45 tons at the intermediate bents and 35 tons at the end bents times the factor of safety in accordance with Specification 455-3.12.2 . The Contribution to driving resistance when installing piles through material subject to scour will be negligible. The factor of safety assumed for the pile capacity is 2.5 .

1 **SCOUR:** Scour has been considered in the design of structures over Santa FE River with a worst case scour at elevation +30 feet and a point of fixity 10 feet below this elevation. Under no circumstances shall the piles be installed to a tip elevation above elevation +15 feet.

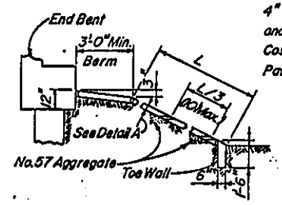
Slope Pavement shall be tooled with a double 1/4" radius tool at 2ft. intervals along the slope at 4ft.± across the slope. Construction Joints will be permitted at joints as directed by the Engineer.



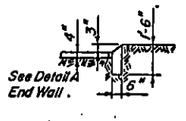
DETAIL A

.... showing Joint Details at End Bent, applies at all contacting surfaces of Slope Pavement at End Bents, End Walls, Toe Walls, and both edges of Berm.

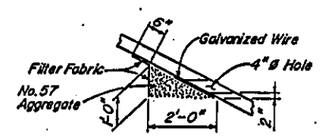
4" Ø Holes at 8' centers (staggered) shall be covered with galvanized wire with 1/4" openings and shall be backed with a continuous layer of NO.57 Aggregate and filter fabric as shown. Cost of Holes, Wire, Filter fabric and Aggregate to be included in the cost of Concrete Slope Pavement (4" thick).



SECTION THRU FORWARD SLOPE

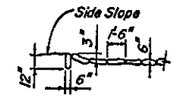


SECTION THRU END WALL



DRAIN DETAIL

SLOPE PAVEMENT DETAILS



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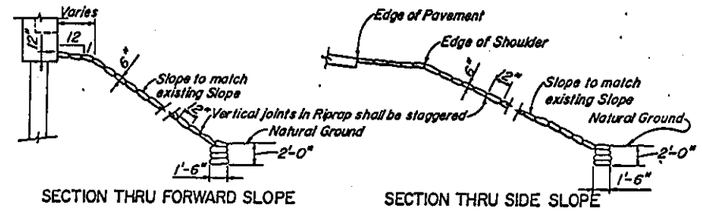


SECTION THRU FORWARD SLOPE

SECTION THRU SIDE SLOPE

SAND-CEMENT RIPRAP DETAILS

Note: Slope Pavement or Sand-Cement Riprap damaged or removed during construction shall be repaired in accordance with above details.

FLOOD DATA FOR SANTA FE RIVER AT I-75

DESIGN FLOOD 2 % Prob. 50 Yr. Freq		BASE FLOOD 1 % Prob. 100 Yr. Freq		OVERTOPPING FLOOD				GREATEST FLOOD				
Discharge	Stage	Discharge	Stage	Discharge	Stage	Prob. %	Freq. Yr.	Discharge	Stage	Prob. %	Freq. Yr.	
22,300	58.4	27,300	59.7	21,300	58.1	2.38	42	44,300	63.0	0.2	500	Santa Fe River

NOTE:
The hydraulic data shown for informational purposes only, to indicate the flood discharges and water surface elevations which may be anticipated in any given year. This data was generated using highly variable factors determined by a study of the watershed. Many judgements and assumptions are required to establish these factors. The resultant hydraulic data is sensitive to changes, particularly of antecedent conditions, urbanization, channelization and land use. Users of this data are cautioned against the assumption of precision which can not be attained. Discharges are cubic feet per second and stages are in reference to NGVD.

DEFINITIONS:
DESIGN FLOOD: The flood selected by the F.D.O.T. to be utilized to assure a standard level of hydraulic performance.
BASE FLOOD: The flood having a 1 % chance of being exceeded in any year. (100 Year Frequency)
OVERTOPPING FLOOD: The flood where flow occurs over the highway, over a watershed divide or thru emergency relief structures.
GREATEST FLOOD: The most severe flood which can be predicted where overtopping is not practicable, normally one with a 0.2 % chance of being exceeded in any year. (500 Year Frequency)

4 Note to Contractor :

The temporary construction trestles (East of Northbound bridge and west of Southbound bridge) for the outside bridge widening, are required at the Santa Fe river site. See DER Dredge and Fill Permit requirements.

all Bridges

FLOOD DATA, RIPRAP DETAILS, SLOPE PAVEMENT DETAILS, AND BID ITEM NOTES

REVISIONS		
Date	By	Descriptions
11/91	OCG	Non-Relevant Items Removed
11/91	OCG	Bearing Pads
1 11/91	OCG	Scour Notes
4 3/93	OCG	PLATFORM NOTES

DSA GROUP INC. ENGINEERS • SURVEYORS • PLANNERS
TAMPA, FLORIDA

FLORIDA DEPARTMENT OF TRANSPORTATION
BUREAU OF STRUCTURES DESIGN

I-75 BRIDGE WIDENING

ROAD NO.	COUNTY	PROJECT NO.
S.R. 93	COLUMBIA	29180-3446

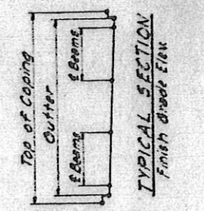
	Names	Dates
Designed by	JEF	7-88
Checked by	JSR	8-88
Quantities by	—	—
Checked by	—	—
Supervised by	SCR	

APPROVED BY: Sol Rockwood

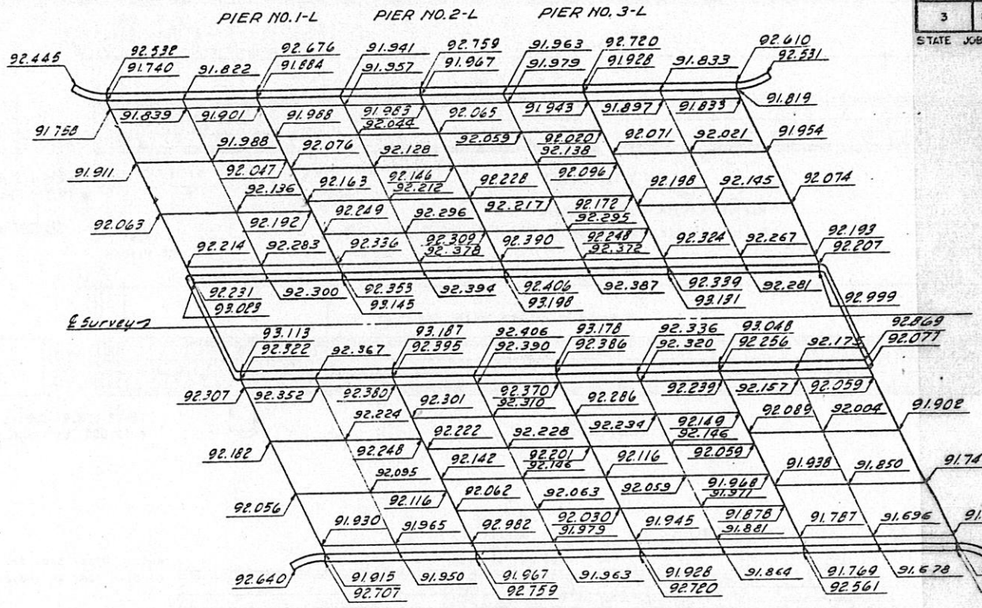
Drawing No. | Sheet No.

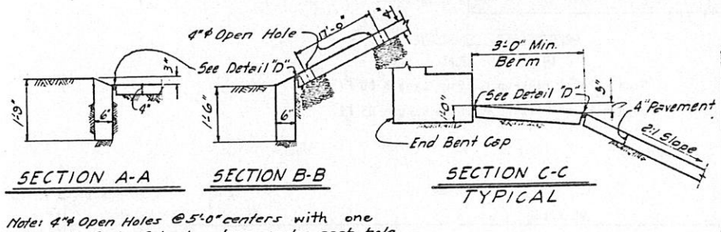
FED ROAD DIV NO.	STATE	F. A. PROJECT NO.	FISCAL YEAR
3	FLA.	I-75-3(19)148	60

STATE JOB NO 29180-3413



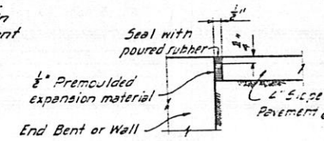
TYPICAL SECTION
Finish Grade Elev.





SECTION A-A SECTION B-B SECTION C-C
TYPICAL

Note: 4"ϕ Open Holes @ 5'-0" centers with one cubic foot of broken stone under each hole. Cost of holes and broken stone to be included in the contract Unit Price for "Concrete Slope Pavement (4" thick)".



JOINT DETAIL "D"

Note:
Slope pavement shall be tooled with a double 1/4" radius tool at 21'-0" ± intervals along the slope and 4'-0" ± across the slope. Construction joints will be permitted at tooled joints as directed by the Engineer.

DESIGN SPECIFICATION: A.A.S.H.O. 1957 and Approved Revisions.

LOADING: H20-S16-44. Modified for Military loading as Required.

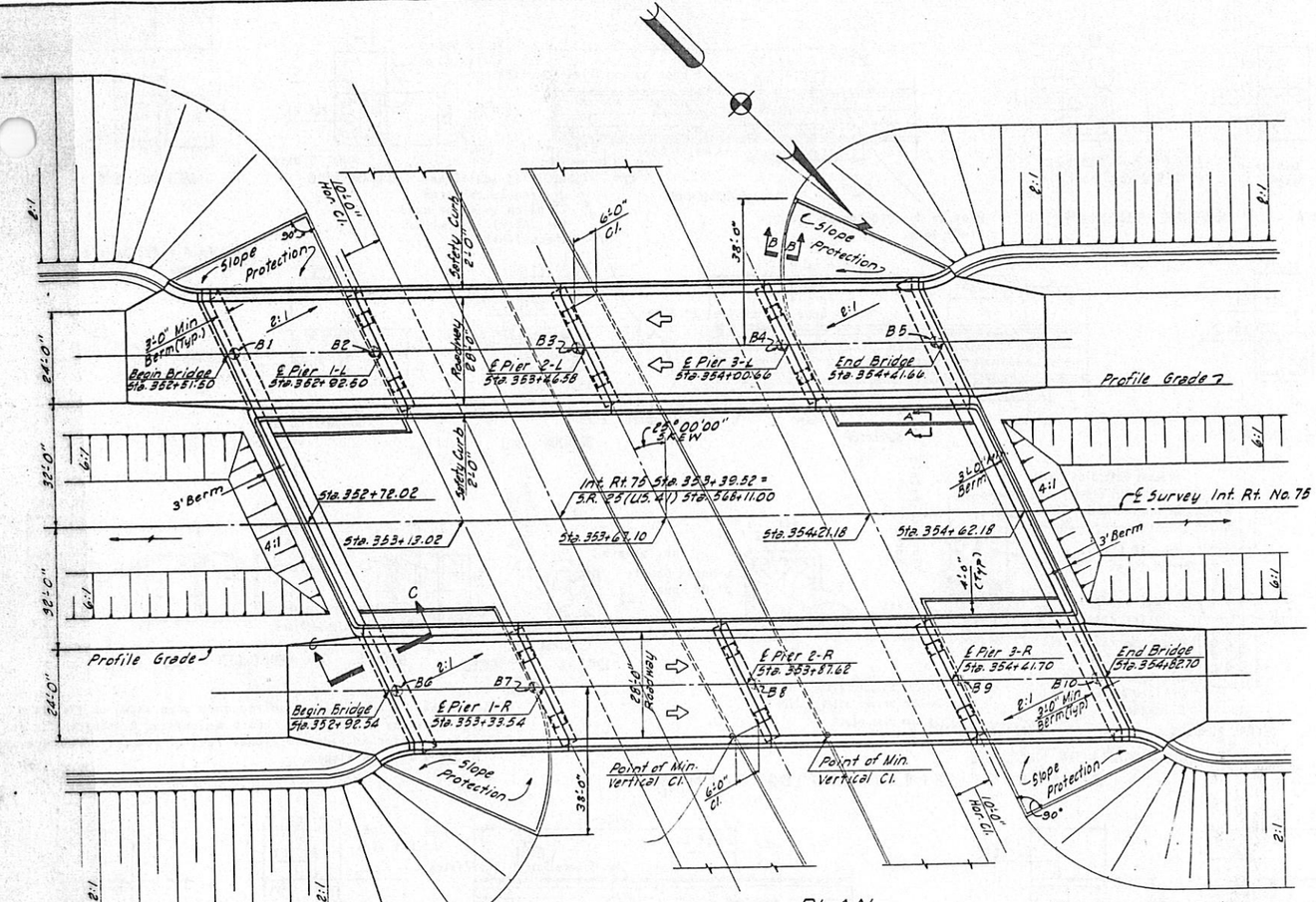
SURFACE FINISH: All exposed surface of piers and end bents shall be given Class I Surface Finish. All surfaces of Superstructure as seen in Elevation, including outside faces of Exterior Prestressed Beams, shall be given Class I Surface Finish.

S.R. 25 A.D.T. (1958) = 3335
S.R. 25 A.D.T. (1975) = 3720
INT. RT. 75 A.D.T. (1975) = 6210

ESTIMATED BRIDGE QUANTITIES

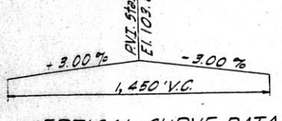
ITEM NO.	ITEM	UNIT	QUAN.
300-1	Class "A" Concrete	Cu. Yd.	76
310-1	Reinforcing Steel	Lbs.	136
401-1A	Prestressed Beams Type II (24-0)	Lin. Ft.	6
401-1B	Prestressed Beams Type II (54-1)	Lin. Ft.	12
403-3A	Precast Concrete Piling Furnished (18" Prestressed)	Lin. Ft.	1,7
403-4A	Precast Concrete Piling Driven (18"	Lin. Ft.	1,7
403-9A	Unloaded Test Piling (18" Prestressed)	Lin. Ft.	11
*403-10	Test Load (90 Tons)	Each	-
407-1	Aluminum Handrail	Lin. Ft.	74
451-4	Concrete Slope Pavement (4" thick)	Sq. Yd.	94
403-3B	Precast Concrete Piling Furnished (14" Prestressed)	Lin. Ft.	1,50
403-4B	Precast Concrete Piling Driven (14")	Lin. Ft.	1,50
403-9B	Unloaded Test Piling (14" Prestressed)	Lin. Ft.	80
403-25A	Cast-in-Place Concrete Piling (16")	Lin. Ft.	2,10
403-25B	Cast-in-Place Concrete Piling (16")	Lin. Ft.	1,50

* The number of Test loads may be increased or omitted as directed by the Engineer.



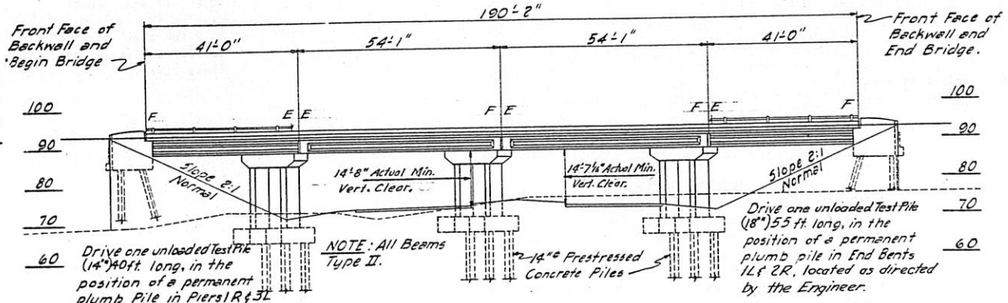
PLAN

Indicates Wash Borings



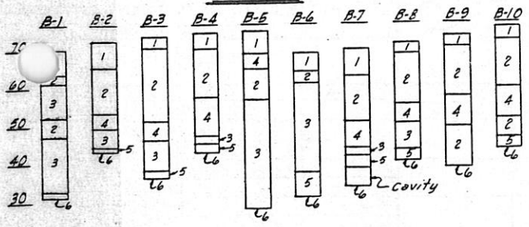
VERTICAL CURVE DATA

NOTE:
Fill shall be in place to bottom of End Bent Caps before End Bent Caps are poured.



ELEVATION

BORINGS



STRATA DESCRIPTION
Stratum 1 - Yellow Sand
Stratum 2 - Clay
Stratum 3 - Stiff Clay
Stratum 4 - Sand Clay
Stratum 5 - Soft Rock & Clay
Stratum 6 - Hard Rock

SECTION E-E

REFERENCE SHEETS	SHEET
Plan and Elevation	E-
Prestressed Concrete Piles	E-2
End Bents	E-3
End Bent Details	E-4
Piers	E-5
Superstructure 41'-0" Span	E-6
Superstructure Section & Details 41'-0" Span	E-7
Superstructure 54'-1" Span	E-8
Superstructure Section & Details 54'-1" Span	E-9
Prestressed Beams 41'-0" Span	E-10
Prestressed Beams 54'-1" Span	E-11
Aluminum Handrail	E-12

PLAN AND ELEVATION
ESTIMATED BRIDGE QUANTITIES

MICHAEL BAKER JR., INC., CONSULTING ENGINEERS
LAKE CITY, FLA. — JACKSON, MISS. — ROCHESTER, PA.

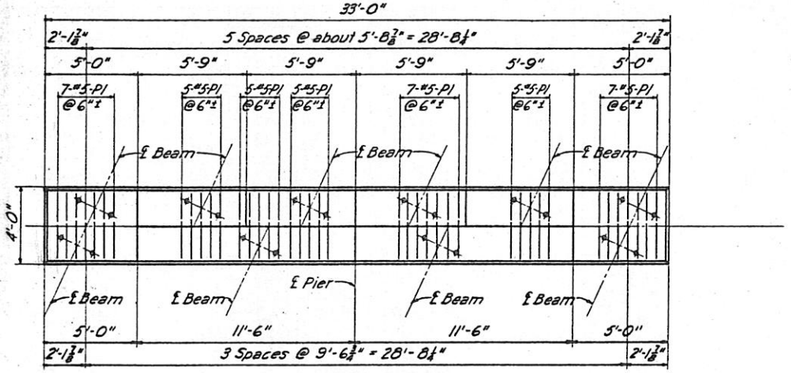
STATE ROAD DEPARTMENT OF FLORIDA
BRIDGE DIVISION

STRUCTURE "E"

REVISIONS		ROAD NO.	COUNTY		PROJECT NO.
Dates	Descriptions	S3	COLUMBIA		29180-3413
			Names	Dates	APPROVED BY:
		Detailed by:	A.M.	7-14-59	
		Checked by:	Y.E.	8-12-59	Engineer of Bridge Design
		Quantities by:	A.M.	8-17-59	
		Checked by:	Y.E.	8-20-59	Assistant State Highway Engineer
		Traced by:	A.M.	8-21-59	Drawing No. 1 OF 12 / Index No. 7055

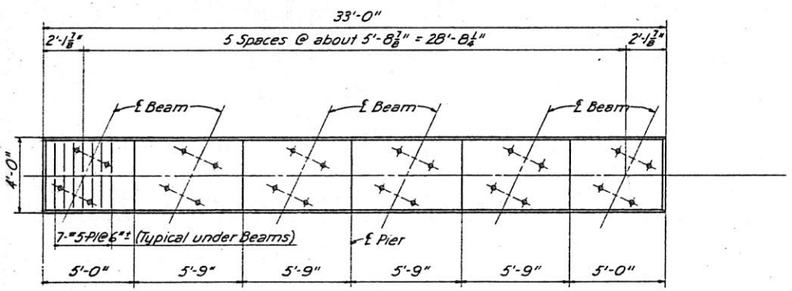
FED ROAD DIV. NO.	STATE	F. A. PROJECT NO.	FISCAL YEAR
3	FLA.	I-75-3(19 1148	'60

STATE JOB NO. 29180-3413

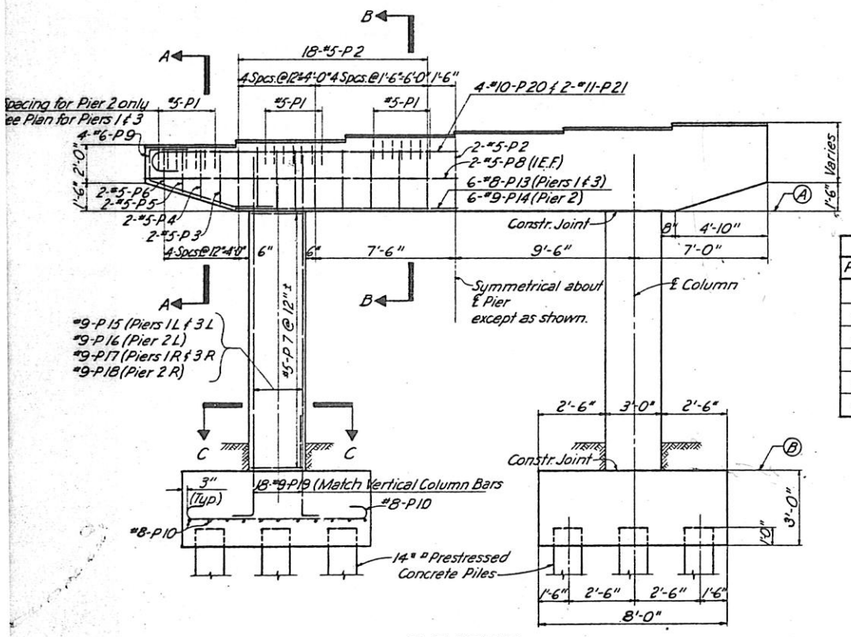


PIER 1L & PIER 1R PLAN

(Piers 3L & 3R Similar except opposite hand)



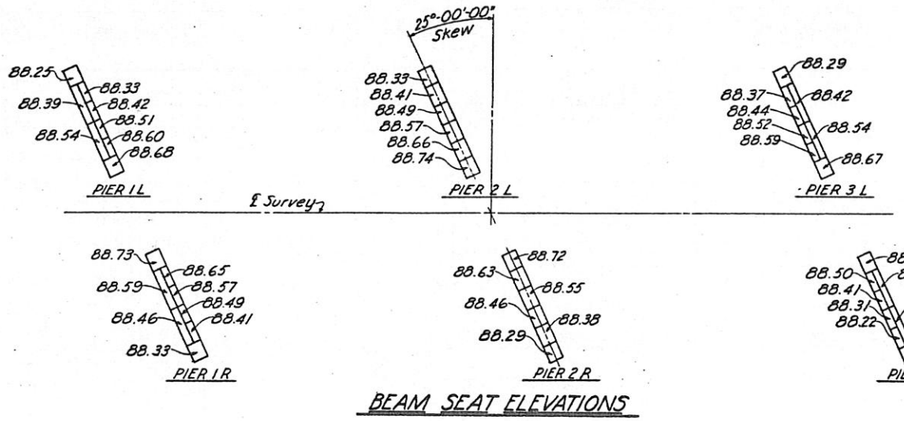
PIER 2L & PIER 2R PLAN



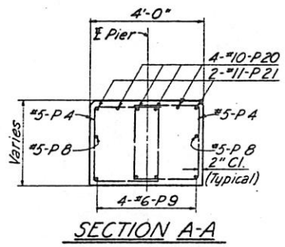
ELEVATION

(Footings are shown for Pier 2 only)

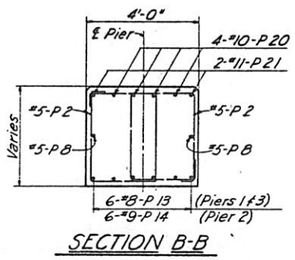
ELEVATIONS		
PIER	A	B
1L	84.75	70.32
2L	84.83	71.75
3L	84.79	70.40
1R	84.83	70.50
2R	84.79	72.00
3R	84.63	70.60



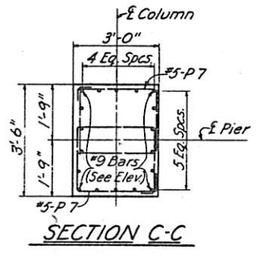
BEAM SEAT ELEVATIONS



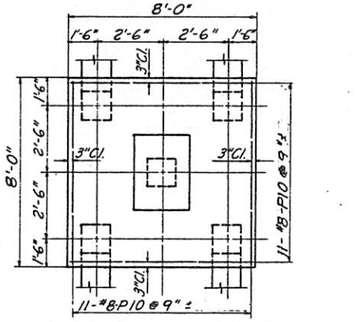
SECTION A-A



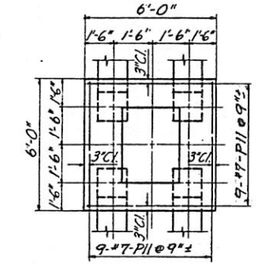
SECTION B-B



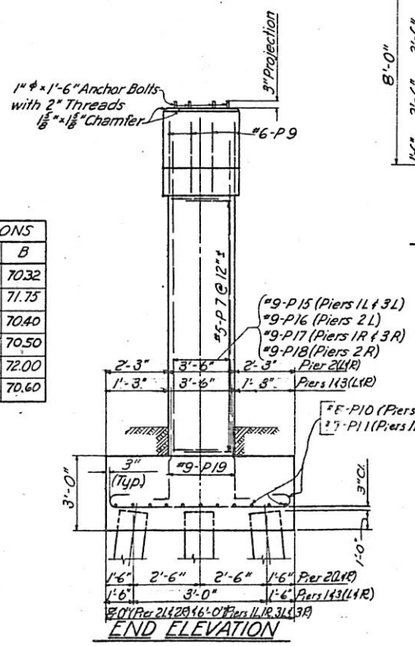
SECTION C-C



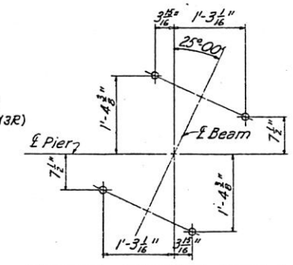
PIER 2 FOOTING PLAN



PIERS 1 & 3 FOOTING PLAN



END ELEVATION

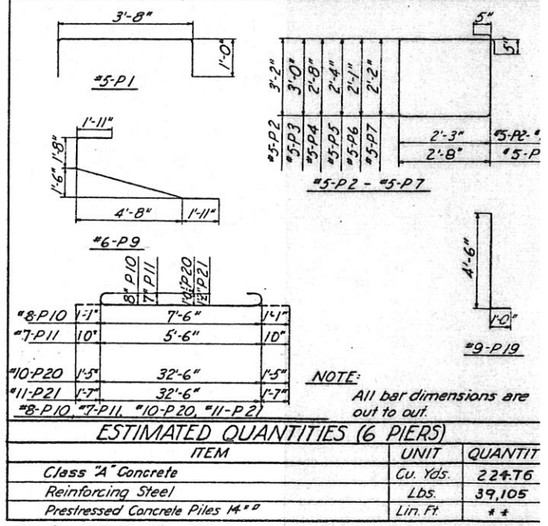


TYPICAL ANCHOR BOLT LAYOUT

BILL OF REINFORCING STEEL

MARK	SIZE	NO REQUIRED PIER 1L	PIER 2L	PIER 3L	PIER 1R	PIER 2R	PIER 3R	LENGTH	BEND
#5-P1	5	41	42	41	41	42	41	5'-8"	Ben
#5-P2	5	38	38	38	38	38	38	11'-8"	Ben
#5-P3	5	4	4	4	4	4	4	11'-4"	Ben
#5-P4	5	4	4	4	4	4	4	10'-8"	Ben
#5-P5	5	4	4	4	4	4	4	10'-0"	Ben
#5-P6	5	4	4	4	4	4	4	9'-6"	Ben
#5-P7	5	60	56	60	60	56	60	10'-6"	Ben
#5-P8	5	2	2	2	2	2	2	32'-8"	Str.
#6-P9	6	8	8	8	8	8	8	10'-5"	Ben
#8-P10	8	-	44	-	-	44	-	9'-8"	Ben
#7-P11	7	36	-	36	36	-	36	7'-2"	Ben
#8-P13	8	6	-	6	6	-	6	23'-0"	Str.
#9-P14	9	-	6	-	-	6	-	23'-0"	Str.
#9-P15	9	36	-	36	-	-	-	16'-10"	Str.
#9-P16	9	-	36	-	-	-	-	15'-11"	Str.
#9-P17	9	-	-	-	36	-	36	16'-8"	Str.
#9-P18	9	-	-	-	-	36	-	15'-7"	Str.
#9-P19	9	36	36	36	36	36	36	5'-6"	Ben
#10-P20	10	4	4	4	4	4	4	35'-4"	Ben
#11-P21	11	2	2	2	2	2	2	35'-8"	Ben

BENDING DIAGRAMS



NOTE: All bar dimensions are out to out.

ESTIMATED QUANTITIES (6 PIERS)

ITEM	UNIT	QUANTITY
Class "A" Concrete	Cu. Yds.	224.76
Reinforcing Steel	Lbs.	39,105
Prestressed Concrete Piles 14" ⌀	Lin. Ft.	**

** See Estimated Quantities

GENERAL NOTES

- DESIGN LOAD FOR PILES: 45 Tons.
- SURFACE FINISH: All surfaces above the proposed ground line, except top of cap, shall be given Class "1" Surface Finish.
- BEARING FINISH: Bearings for Prestressed beams, on top of Substructure caps, shall be finished to a plane parallel to the beam slope by rubbing with corborundum.

PIERS

MICHAEL BAKER JR., INC., CONSULTING ENGINEER

LAKE CITY, FLA.—JACKSON, MISS.—ROCHESTER, PA.

STATE ROAD DEPARTMENT OF FLORIDA

BRIDGE DIVISION

STRUCTURE "E"

REVISIONS Dates	Descriptions

ROAD NO.	COUNTY	PROJECT NO.
93	COLUMBIA	29180-3413

	Names	Dates
Detailed by:	G.M.W.	7-24-59
Checked by:	Y.G.	8-6-59
Quantities by:	G.M.W.	7-27-59
Checked by:	Y.G.	8-6-59
Traced by:	F.E.H.	7-30-59

APPROVED BY:

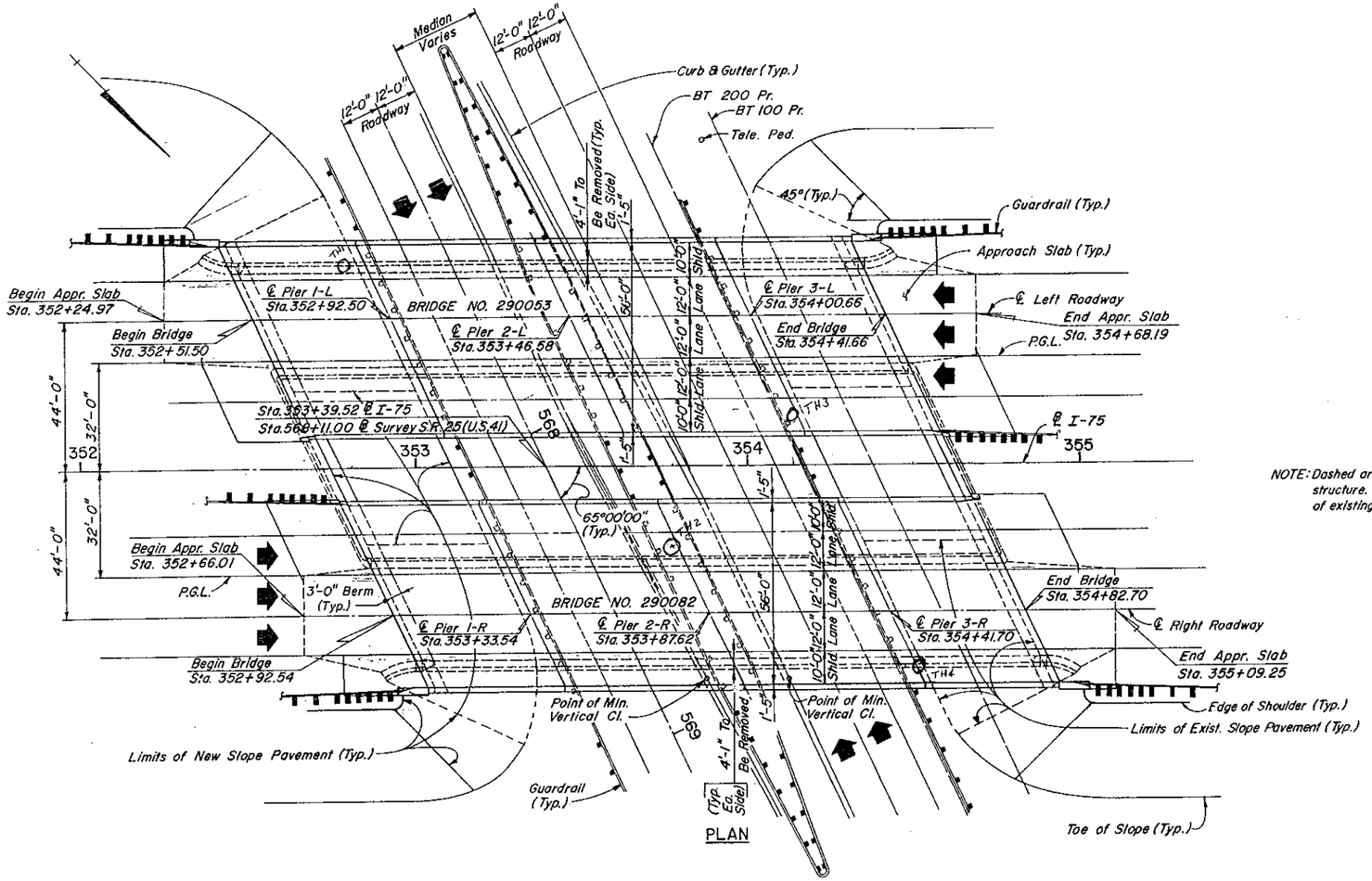
Engineer of Bridge Design

Assistant State Highway Engineer

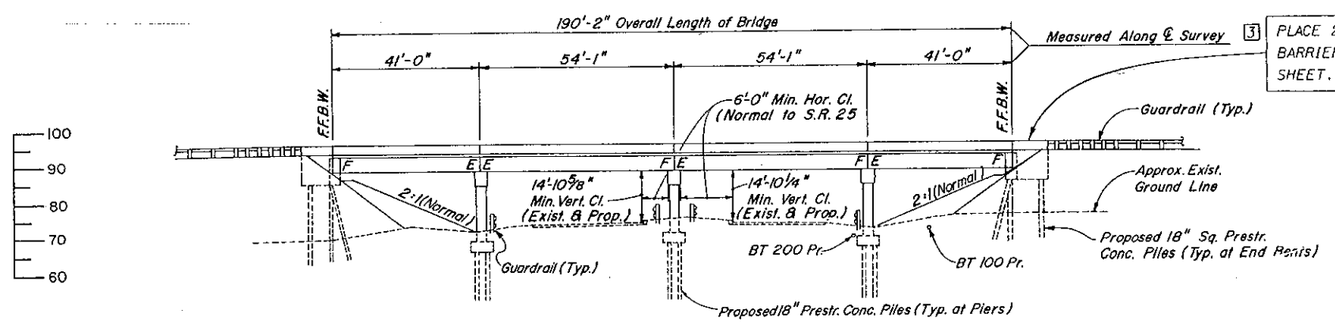
Drawing No. 5 OF 12

Index No. 7055

FED. ROAD DIV. NO.	STATE	PROJECT NO.	FISCAL YEAR	SHEET NO.
3	FLA.			C-1



PLAN



ELEVATION

3 PLACE 2-2 IN. ϕ PVC CONDUITS IN EACH BARRIER. SEE "UTILITY CONDUIT DETAILS ..." SHEET. (TYPICAL EACH BRIDGE)

TRAFFIC DATA

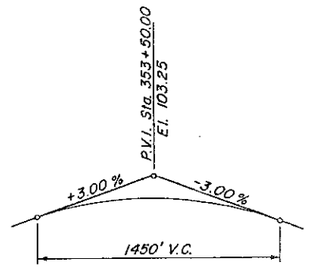
1984 ADT = 28,190
1985 ADT = 24,200 (Est.)
1995 ADT = 41,100 (Est.)
K = 11%
D = 61%
T = 25%
DT = 13%
DMT = 1.3%
DHT = 11.7%
Design Speed = 70 M.P.H

NOTE: Dashed areas shown indicate existing structure. Shaded areas indicate portion of existing structure to be removed.

INDEX OF SHEETS

C-1	General Plan and Elevation
C-2	Pile Layout
C-3	End Bents I-L & 2-R
C-4	End Bents I-R & 2-L
C-5	End Bent Details (Sheet 1 of 3)
C-6	End Bent Details (Sheet 2 of 3)
C-7	End Bent Details (Sheet 3 of 3)
C-8	Piers 1 thru 3 (Inside) (Left and Right Bridges) Piers 1-R and 3-L (Outside)
C-9	Piers 2-R, 2-L, 3-R and 1-L (Outside) and Pier Details
C-10	Prestressed Beams Type II
C-11	Prestressed Beams Type II (4" Red. Fl.)
C-12	Superstructure
C-13	Superstructure (Sections)
C-14	Superstructure Details (Sheet 1 of 2)
C-15	Superstructure Details (Sheet 2 of 2)
C-16	Reinforcing Bar List (Sheet 1 of 2)
C-17	Reinforcing Bar List (Sheet 2 of 2)
C-18	Finished Deck Elevations (Sheet 1 of 2)
C-19	Finished Deck Elevations (Sheet 2 of 2)

NOTES: 1. For Existing Bridge Plans, see sheets M-1 thru M-15.
2. For Boring information see Exist. Bridge Plans, sheet M-1.



PROFILE GRADE
(As shown on Exist. Bridge Plans)

GENERAL PLAN AND ELEVATION

DSA GROUP INC. ENGINEERS • SURVEYORS • PLANNERS
TAMPA, FLORIDA

REVISIONS		
Date	By	Description
3 1/93	OCG	UTILITY CONDUIT

FLORIDA DEPARTMENT OF TRANSPORTATION
BUREAU OF STRUCTURES DESIGN

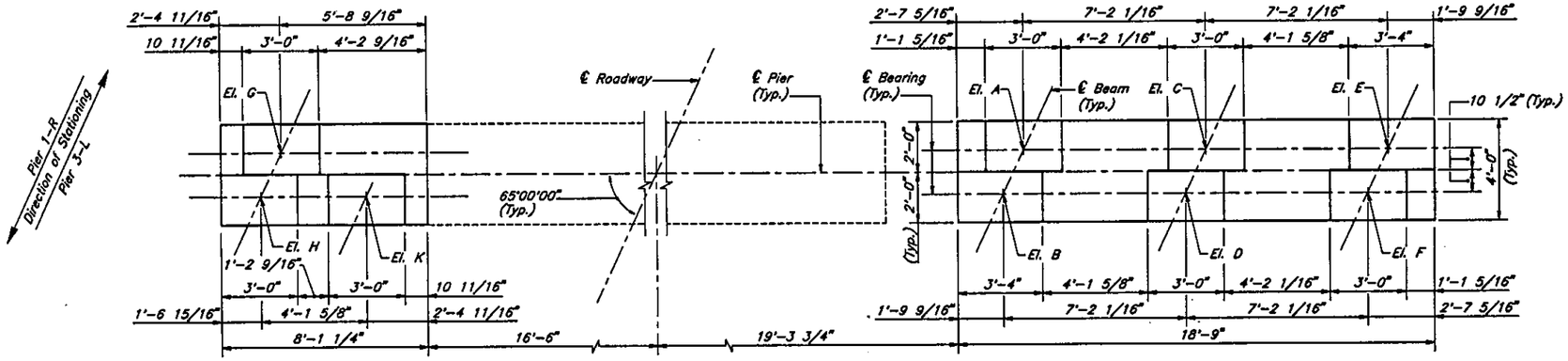
WIDENING I-75 OVER S.R. 25
BR. NO. 290082 N.B. & BR. NO. 290053 S.B.

ROAD NO.	COUNTY	PROJECT NO.
S.R. 93	COLUMBIA	29130-3446

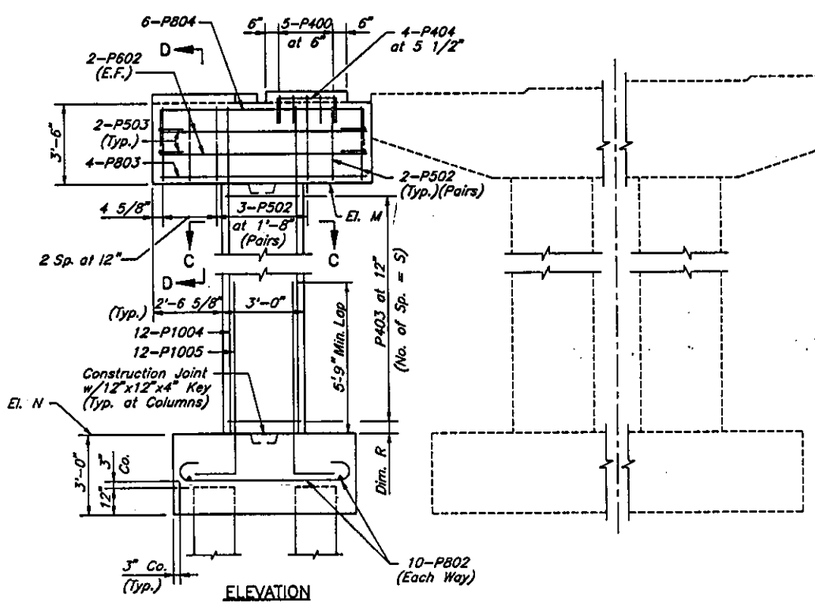
	Names	Dates
Designed by	JEF	8/88
Checked by	JGP	8/88
Quantities by		
Checked by		
Supervised by	SCR	

APPROVED BY: Sofia Pearing
Drawing No. | Index No.

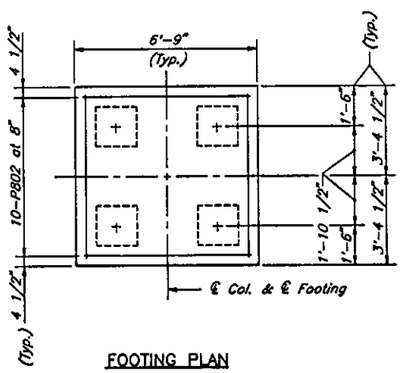
FED. ROAD DIV. NO.	STATE	PROJECT NO.	FISCAL YEAR	SHEET NO.
3	FLA.			C-8



PLAN



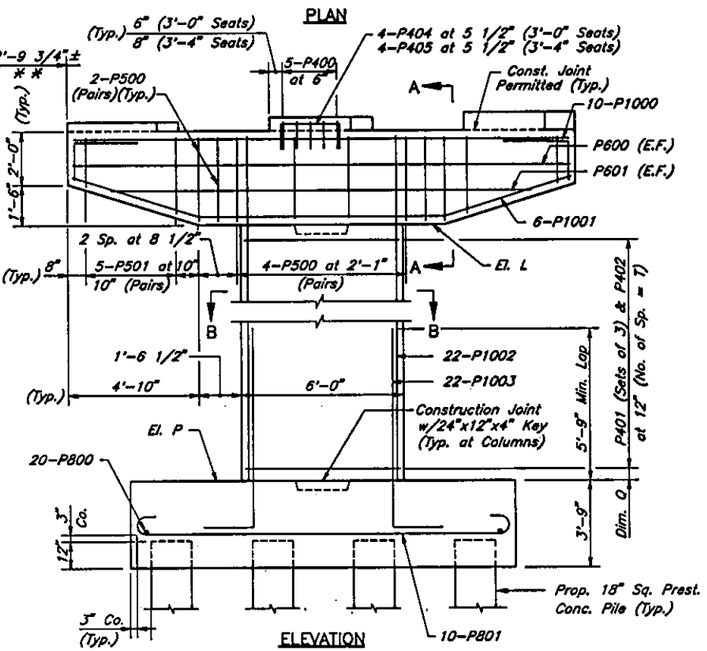
ELEVATION



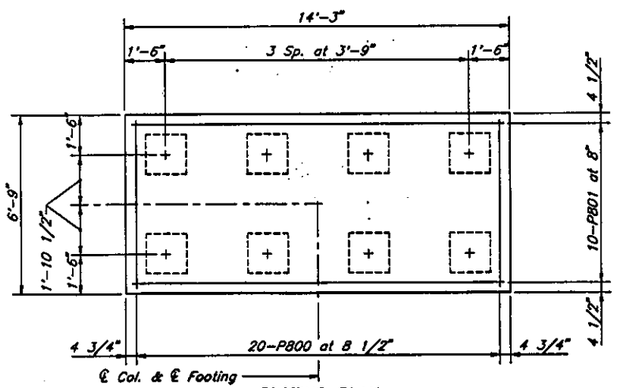
FOOTING PLAN

Bridges
290053
290082

PLAN

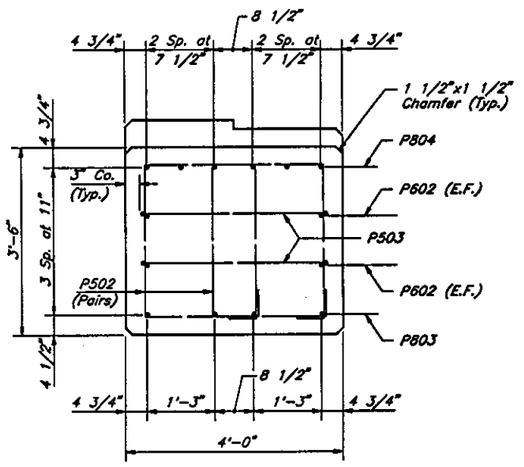


ELEVATION



FOOTING PLAN

Right Bridge
Direction of Stationing
Left Bridge



SECTION D-D

NOTE: Dashed areas shown indicate existing structure.

NOTES:
1. ** = Measured Along ℄ Pier.
2. Design load for piles = 45 Tons.
3. For Reinforcing Bar List, see sheet C-17.
4. Beam seats shall be finished level.
5. For Table of Pier Data, Sections A-A thru C-C and Estimated Quantities, see sheet C-9.

PIERS 1 THRU 3 (INSIDE)(LEFT AND RIGHT BRIDGES)
PIERS 1-R AND 3-L (OUTSIDE)

REVISIONS		
Date	By	Description

DSA GROUP INC. ENGINEERS • SURVEYORS • PLANNERS
TAMPA, FLORIDA

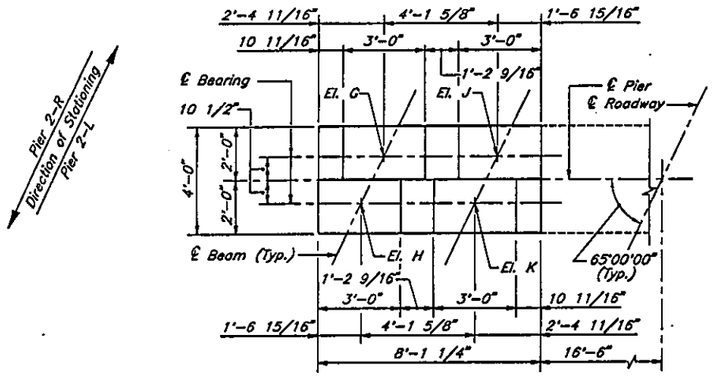
FLORIDA DEPARTMENT OF TRANSPORTATION
BUREAU OF STRUCTURES DESIGN

WIDENING I-75 OVER S.R.25

ROAD NO.	COUNTY	PROJECT NO.
SR 93	COLUMBIA	29180-3446

	Initial	Date
Designed by	JEF	11-88
Checked by	JSR	2-89
Quantities by		
Checked by		
Supervised by	SCR	

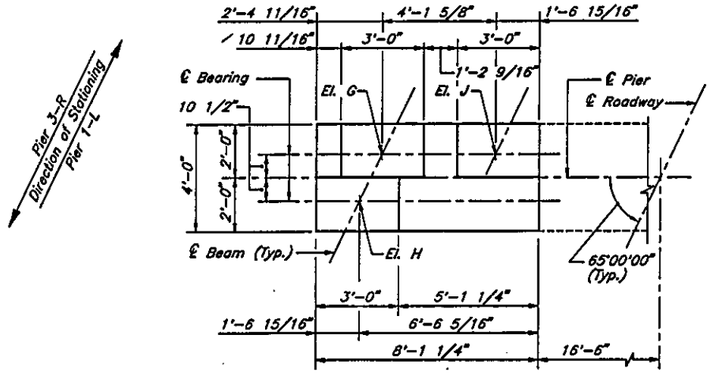
APPROVED BY: Sofia Ramos
Drawing No.
Index No.



PLAN

PLAN-PIERS 2-L & 2-R

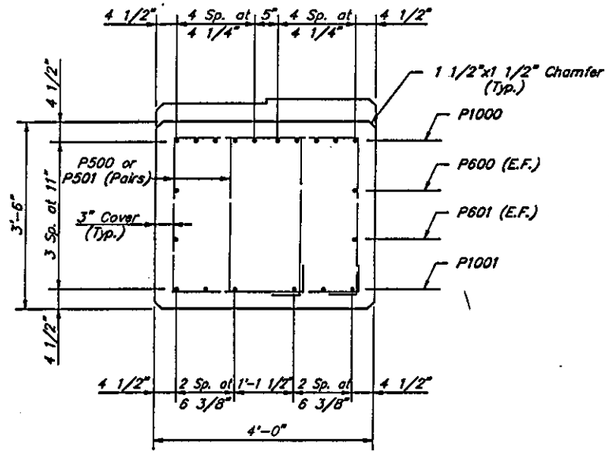
See sheet C-8 for ELEVATION *and* FOOTING PLAN



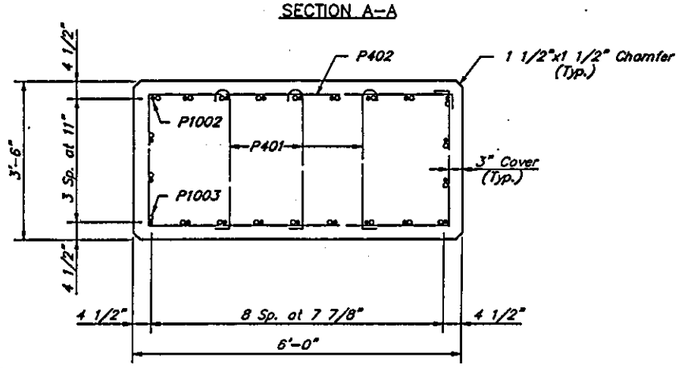
PLAN

PLAN-PIERS 1-L & 3-R

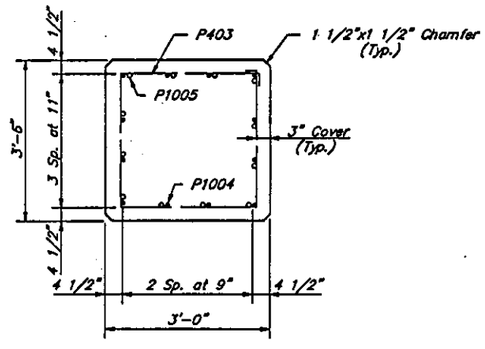
See sheet C-8 for ELEVATION *and* FOOTING PLAN



SECTION A-A



SECTION B-B



SECTION C-C

NOTE: Dashed areas shown indicate existing structure.

NOTE:
For additional notes, see sheet C-8.

BREAKDOWN OF CONCRETE QUANTITIES

PART OF STRUCTURE	UNIT	QUANTITY											
		PIER 1-L		PIER 2-L		PIER 3-L		PIER 1-R		PIER 2-R		PIER 3-R	
		Low Side	High Side	Low Side	High Side	Low Side	High Side	Low Side	High Side	Low Side	High Side	Low Side	High Side
Cap and Pedestals	C.Y.	4.44	9.29	4.53	9.27	4.44	9.28	4.45	9.29	4.53	9.25	4.44	9.31
Column	C.Y.	5.46	11.15	5.79	11.77	5.44	11.08	5.41	11.01	5.64	11.53	5.28	10.87
Footing	C.Y.	4.73	12.69	4.73	12.69	4.73	12.69	4.73	12.69	4.73	12.69	4.73	12.69

ESTIMATE OF QUANTITIES

	ITEM	UNIT	PIER 1-L	PIER 2-L	PIER 3-L	PIER 1-R	PIER 2-R	PIER 3-R
	Class II Concrete (Substructure)	C.Y.	47.76	48.78	47.66	47.58	48.37	47.32
	Reinforcing Steel (Substructure)	Lbs.	8,273	8,456	8,273	8,273	8,434	8,251
*	Prestressed Concrete Piles (18" Sq.)	L.F.	*	*	*	*	*	*

(6)

* See Summary of Bridge Pay Items (6)

TABLE OF PIER DATA

PIER	EL. A	EL. B	EL. C	EL. D	EL. E	EL. F	EL. G	EL. H	EL. J	EL. K	EL. L	EL. M	EL. N	EL. P	DIM. Q	DIM. R	NO. S	NO. T
1-L	88.58	88.61	88.71	88.73	88.82	88.83	88.29	88.29	88.36	——	84.75	84.46	70.42	70.42	6"	6"	13	13
2-L	88.71	88.75	88.81	88.85	88.91	88.94	88.46	88.48	88.51	88.54	84.88	84.63	69.75	69.75	6"	6"	14	14
3-L	88.67	88.59	88.76	88.68	88.84	88.77	88.39	88.37	——	88.43	84.76	84.54	70.54	70.51	6"	6"	13	13
1-R	88.66	88.58	88.76	88.68	88.86	88.76	88.45	88.38	——	88.45	84.75	84.55	70.64	70.59	6"	6"	13	13
2-R	88.65	88.65	88.76	88.76	88.85	88.86	88.34	88.34	88.42	88.41	84.82	84.51	70.00	70.00	3"	3"	14	14
3-R	88.49	88.57	88.60	88.68	88.71	88.79	88.13	88.16	88.20	——	84.66	84.30	70.72	70.69	6"	3"	13	13

Bridge 290053 290082

FED. ROAD DIV. NO.	STATE	PROJECT NO.	FISCAL YEAR	SHT. NO.
3	FLA.			C-9

REVISIONS		
Date	By	Description
5/93	OCG	REVISE NOTE
		REVISE TABLE

(6)

OSP GROUP INC. — ENGINEERS • SURVEYORS • PLANNERS — TAMPA, FLORIDA

FLORIDA DEPARTMENT OF TRANSPORTATION
BUREAU OF STRUCTURES DESIGN

WIDENING I-75 OVER S.R.25

ROAD NO.	COUNTY	PROJECT NO
SR 93	COLUMBIA	29180-3

	Names	Dates
Designed by	JEF	11-88
Checked by	JGR	3-89
Quantities by	J.R.	11-88
Checked by	JGR	4-89
Supervised by	SCR	

APPROVED BY: Solon Kwas

Drawing No. | Index No.

PIERS 2-R, 2-L, 3-R AND 1-L (OUTSIDE) AND PIER DETAILS

FED. ROAD DIV. NO.	STATE	PROJECT NO.	FISCAL YEAR	SHEET NO.
3	FLA.			C-17

PIERS 1-L THRU 3-L OR 1-R THRU 3-R (NO. REQ'D. = 6)

MARK SIZE	MARK DES.	LENGTH FT.-IN.	NO. BARS	TYPE BAR	STYLE A	STYLE G	B FT.-IN.	C FT.-IN.	D FT.-IN.	E FT.-IN.	F FT.-IN.	H FT.-IN.	J FT.-IN.	K FT.-IN.	N NO.	Ø ANG.
P4	00	4-4	①	11			1-6	1-5	1-5							
P4	01	4-2	②	18	1	3	3-0									
P4	02	17-9	③	4	4	4	5-6	3-0								
P4	03	11-9	③	4	4	4	3-0	2-6								
P4	04	5-4	④	11			2-6	1-5	1-5							
P4	05	5-8	8	11			2-10	1-5	1-5							
P5	00	11-10	16	4	4	4	3-0	2-5								
P5	01	* 9-2	4 SETS	4	4	4	* 1-8	2-5								
		TO 11-2	OF 5				TO 2-8									
P5	02	11-4	14	4	4	4	3-0	2-2								
P5	03	5-2	4	11			3-6	0-10	0-10							
P6	00	18-3	2	1			18-3									
P6	01	15-8	2	1			15-8									
P6	02	7-7	4	1			7-7									
P8	00	8-1	20	18	1	1	6-3									
P8	01	15-7	10	18	1	1	13-9									
P8	02	8-1	20	18	1	1	6-3									
P8	03	7-7	4	1			7-7									
P8	04	10-6	6	11			7-6	1-6	1-6							
P10	00	18-3	10	1			18-3									
P10	01	25-8	6	43			4-7	9-1	1-5	1-6	1-6	2-0				
P10	02	⑤	22	1			⑤									
P10	03	9-11	22	10			8-1	1-10								
P10	04	⑥	12	1			⑥									
P10	05	9-2	12	10			7-4	1-10								

* = VARIES

① = 45 BARS; PIER 1-L, 1-R, 3-L OR 3-R
50 BARS; PIER 2-L OR 2-R

② = 42 BARS; PIER 1-L, 1-R, 3-L OR 3-R
45 BARS; PIER 2-L OR 2-R

③ = 14 BARS; PIER 1-L, 1-R, 3-L OR 3-R
15 BARS; PIER 2-L OR 2-R

④ = 28 BARS; PER 1-L, 1-R, 3-L OR 3-R
32 BARS; PIER 2-L OR 2-R

⑤ = 17'-0"; PIER 1-L, 1-R, 3-L OR 3-R
17'-10"; PIER 2-L OR 2-R

⑥ = 17'-0"; PIER 1-L, 1-R OR 3-L
17'-11"; PIER 2-L
17'-6"; PIER 2-R
16'-7"; PIER 3-R

SUPERSTRUCTURE SPANS 1-L, 1-R, 4-L OR 4-R (NO. REQ'D. = 4)

MARK SIZE	MARK DES.	LENGTH FT.-IN.	NO. BARS	TYPE BAR	STYLE A	STYLE G	B FT.-IN.	C FT.-IN.	D FT.-IN.	E FT.-IN.	F FT.-IN.	H FT.-IN.	J FT.-IN.	K FT.-IN.	N NO.	Ø ANG.
S4	00	40-7	75	1			40-7									
S4	01	6-5	36	7			2-8	0-5	0-4	0-4						
S4	02	* 5-9	2 SETS	7			* 2-4	0-5	0-4	0-4						
		TO 6-5	OF 7				TO 2-8									
S4	03	7-10	4	1			7-10									
S4	04	5-8	6	1			5-8									
S4	05	6-9	2	1			6-9									
S4	06	21-1	4	1			21-1									
S4	07	2-10	4	1			2-10									
S4	08	6-3	6	1			6-3									
S4	09	7-4	2	1			7-4									
S4	10	3-2	12	1			3-2									
S4	11	NOT	USED													
S4	12	1-6	12	1			1-6									
S5	00	* 2-10	2 SETS	1			* 2-10									
		TO 21-5	OF 27				TO 21-5									
S5	01	22-1	164	1			22-1									
S5	02	* 2-8	2 SETS	1			* 2-8									
		TO 20-6	OF 21				TO 20-6									
S5	03	* 2-8	2 SETS	1			* 2-8									
		TO 8-0	OF 7				TO 8-0									
S5	04	10-1	192	1			10-1									
S5	05	* 3-0	2 SETS	1			* 3-0									
		TO 9-5	OF 10				TO 9-5									
S5	06	22-9	4	1			22-9									
S5	07	9-6	4	1			9-6									
S6	00	21-1	2	1			21-1									
S6	01	7-10	2	1			7-10									
S6	02	5-8	6	1			5-8									
S6	03	6-9	2	1			6-9									

* = VARIES

SUPERSTRUCTURE SPANS 2-L, 2-R, 3-L OR 3-R (NO. REQ'D. = 4)

MARK SIZE	MARK DES.	LENGTH FT.-IN.	NO. BARS	TYPE BAR	STYLE A	STYLE G	B FT.-IN.	C FT.-IN.	D FT.-IN.	E FT.-IN.	F FT.-IN.	H FT.-IN.	J FT.-IN.	K FT.-IN.	N NO.	Ø ANG.
S4	00	55-0	74	2			1-4	53-8							1	
S4	01	5-9	6	7			2-4	0-5	0-4	0-4						
S4	02	6-5	36	7			2-8	0-5	0-4	0-4						
S4	03	* 5-9	2 SETS	7			* 2-4	0-5	0-4	0-4						
		TO 6-5	OF 3				TO 2-8									
S4	04	7-10	4	1			7-10									
S4	05	5-8	6	1			5-8									
S4	06	2-8	4	1			2-8									
S4	07	21-1	4	1			21-1									
S4	08	2-6	8	1			2-6									
S4	09	6-3	6	1			6-3									
S4	10	3-2	4	1			3-2									
S4	11	3-2	12	1			3-2									
S4	12	1-6	12	1			1-6									
S4	13	3-6	98	17	1		3-6									
S4	14	10-1	172	1			10-1									
S4	15	* 2-10	2 SETS	1			* 2-10									
		TO 8-2	OF 5				TO 8-2									
S5	00	* 2-9	2 SETS	1			* 2-9									
		TO 21-0	OF 18				TO 21-0									
S5	01	22-1	152	1			22-1									
S5	02	* 2-10	2 SETS	1			* 2-10									
		TO 20-3	OF 14				TO 20-3									
S5	03	* 2-6	2 SETS	1			* 2-6									
		TO 9-0	OF 7				TO 9-0									
S5	04	22-9	4	1			22-9									
S5	05	9-6	4	1			9-6									
S6	00	21-1	2	1			21-1									
S6	01	7-10	2	1			7-10									
S6	02	5-8	6	1			5-8									
S6	03	2-8	4	1			2-8									

* = VARIES

NOTES:
1. ALL REINFORCING STEEL SHALL BE GRADE 60.
2. FOR STANDARD BAR BENDING DETAILS, SEE SHEET A-7.

Bridge
290053
290082

REINFORCING BAR LIST (SHEET 2 OF 2)

DSR GROUP INC. ENGINEERS • SURVEYORS • PLANNERS
TAMPA, FLORIDA

REVISIONS		
Date	By	Descriptions

FLORIDA DEPARTMENT OF TRANSPORTATION
BUREAU OF STRUCTURES DESIGN

WIDENING I-75 OVER S.R. 25

ROAD NO.	COUNTY	PROJECT NO.
SR 93	COLUMBIA	29180-344

	Names	Dates	APPROVED BY
Designed by	JR	7-89	Sol A Roang
Checked by	YAZ	7-89	
Quantities by			
Checked by			Drawing No. / Index No.
Supervised by	SCR		

Exhibit "B"

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CONTRACT PLANS COMPONENTS

ROADWAY
SIGNING AND PAVEMENT MARKING
SIGNALIZATION
INTELLIGENT TRANSPORTATION SYSTEMS
LIGHTING

INDEX OF SIGNING AND PAVEMENT MARKING PLANS

SHEET NO.	SHEET DESCRIPTION
S-1	KEY SHEET
S-2	SIGNATURE SHEET
S-3	GENERAL NOTES
S-4 - S-12	SIGNING AND PAVEMENT MARKING PLAN
S-13 - S-15	PAVEMENT MARKING DETAILS
S-16 - S-18	GUIDE SIGN WORKSHEET
S-19	MULTI-COLUMN SIGN STRUCTURE DETAILS

CONTRACT PLANS

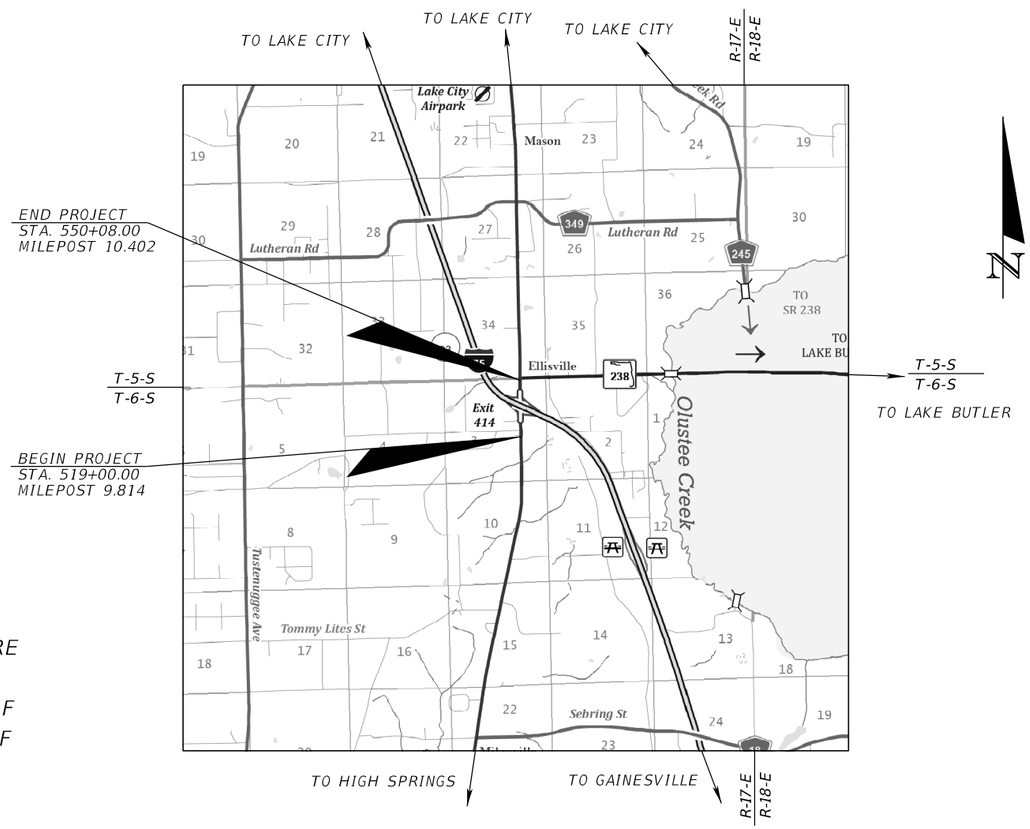
I-75 AT SR 25 (US 41)

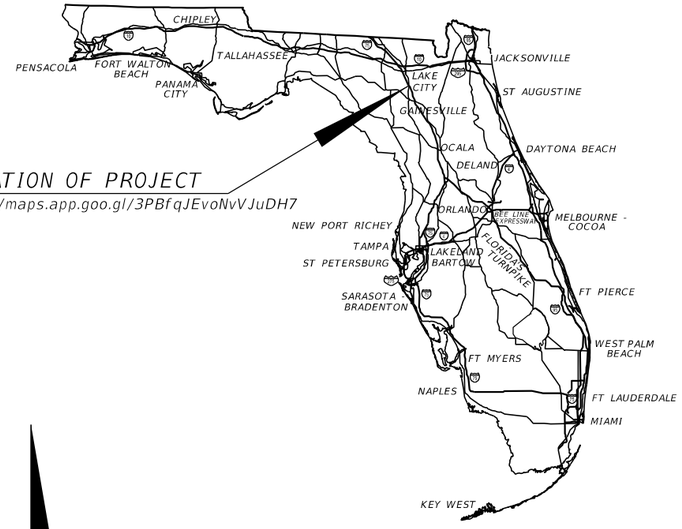
WIDENING AND RESURFACING

FINANCIAL PROJECT ID 445725-5-54-02

COLUMBIA COUNTY, FLORIDA

SIGNING AND PAVEMENT MARKING PLANS





LOCATION OF PROJECT
https://maps.app.goo.gl/3PBfqJEvoNvVJuDH7

N

ANY STRUCUTRES PLANS CONTAINED HEREIN ARE EXEMPT FROM DISCLOSURE PURSUANT TO s.119.071(3)(b), FLA. STAT. AS THE RECIPIENT OF THESE RECORDS. PLEASE REFER REQUESTER OF RECORDS TO FLORIDA DEPARTMENT OF TRANSPORTATION.

GOVERNING STANDARD PLANS:

Florida Department of Transportation, FY2025-26 Standard Plans for Road and Bridge Construction and applicable Interim Revisions (IRs).

Standard Plans for Road Construction and associated IRs are available at the following website: http://www.fdot.gov/design/standardplans

APPLICABLE IRs: NONE

GOVERNING STANDARD SPECIFICATIONS:

Florida Department of Transportation, FY2025-26 Standard Specifications for Road and Bridge Construction at the following website: http://www.fdot.gov/programmanagement/Implemented/SpecBooks

SIGNING AND PAVEMENT MARKING PLANS ENGINEER OF RECORD:

BRYON S. WUCZYNSKI, P.E.
P.E. LICENSE NUMBER 64090
OSIRIS 9 CONSULTING, LLC
13241 BARTRAM PARK BLVD STE 1109
JACKSONVILLE, FL, 32258
(904) 469-0221
CONTRACT NO.:
VENDOR NO.: F452311176

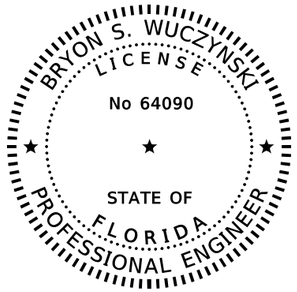
COLUMBIA COUNTY PROJECT MANAGER

CHAD WILLIAMS, P.E.

FISCAL YEAR	SHEET NO.
2026	S-1

THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.

T:\WorkSets\Columbia County\44572515201\SigningAndMarking\KEYSSP01.dgn : #USERS 8/29/2025 9:47:37 AM



THIS ITEM HAS BEEN DIGITALLY SIGNED AND SEALED BY

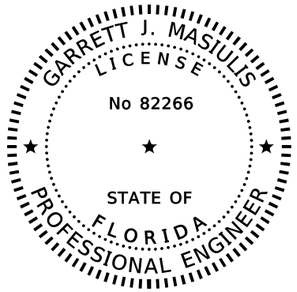
ON THE DATE ADJACENT TO THE SEAL

SIGNATURE MUST BE VERIFIED ON ANY ELECTRONIC COPIES.

OSIRIS 9 CONSULTING, LLC
13241 BARTRAM PARK BLVD, SUITE 1109
JACKSONVILLE, FL 32258
BRYON S. WUCZYNSKI

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

SHEET NO.	SHEET DESCRIPTION
S-1	KEY SHEET
S-2	SIGNATURE SHEET
S-3	GENERAL NOTES
S-4 - S-12	SIGNING AND PAVEMENT MARKING PLAN
S-13 - S-15	PAVEMENT MARKING DETAILS
S-16 - S-18	GUIDE SIGN WORKSHEET



THIS ITEM HAS BEEN DIGITALLY SIGNED AND SEALED BY

ON THE DATE ADJACENT TO THE SEAL

SIGNATURE MUST BE VERIFIED ON ANY ELECTRONIC COPIES.

ARCADIS
1200 RIVERPLACE BOULEVARD, SUITE 425
JACKSONVILLE, FL 32207
GARRETT J. MASIULIS, P.E.

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

SHEET NO.	SHEET DESCRIPTION
S-2	SIGNATURE SHEET
S-19	MULTI-COLUMN SIGN STRUCTURE DETAILS

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

BRYON S. WUCZYNSKI, P.E.
LICENSE NUMBER: 64090
OSIRIS 9 CONSULTING, LLC
13241 BARTRAM PARK BLVD STE 1109
JACKSONVILLE, FL 32258

COLUMBIA CO BOCC

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 25	COLUMBIA	445725-5-54-02

SIGNATURE SHEET

SHEET NO. S-2

GENERAL NOTES

1. EXISTING SIGN ASSEMBLIES TO BE REMOVED SHALL BE PLACED IN AREAS APPROVED BY THE ENGINEER FOR PICK UP BY COLUMBIA COUNTY DEPARTMENT OF PUBLIC WORKS. CONTACT COLUMBIA COUNTY DEPARTMENT OF PUBLIC WORKS AT 386-758-1019 FOR PICKUP. DISPOSE OF ANY SIGNS NOT TAKEN BY THE COLUMBIA COUNTY DEPARTMENT OF PUBLIC WORKS.

2. MAINTAIN EXISTING STREET NAME SIGNS FOR 911 PURPOSES. COST FOR ALL RELOCATIONS DURING MAINTENANCE OF TRAFFIC TO BE INCLUDED UNDER RELATED PAY ITEM(S).

3. WHERE FOOTER OR FOUNDATION ARE TO BE INSTALLED BY AUGURING 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 STATION, OFFSET, IDENTIFYING STRUCTURE NUMBER, AND DIAMETER OF EXCAVATION IN INCHES.

4. WHERE AUGURING OR DRILLING, EXCAVATE THE FIRST 4 FEET BY NON-MECHANICAL AND NON-DESTRUCTIVE MEANS.

5. PLACE PROPOSED PAVEMENT MARKINGS PER FDOT STANDARD PLANS 706-001, 711-001, AND PER THE SIGNING AND PAVEMENT MARKING PLANS. PLACE SIGNS PER THE SIGNING AND PAVEMENT MARKING PLAN AND PER THE FDOT STANDARD PLANS 700 SERIES.

6. EXISTING I-75 OVERPASS BRIDGE MOUNTED LOW CLEARANCE SIGNS ARE TO REMAIN.

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

BRYON S. WUCZYNSKI, P.E.
LICENSE NUMBER: 64090
OSIRIS 9 CONSULTING, LLC
13241 BARTRAM PARK BLVD STE 1109
JACKSONVILLE, FL 32258

COLUMBIA CO BOCC

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 25	COLUMBIA	445725-5-54-02

GENERAL NOTES

SHEET NO. S-3

SEE INSET B

CURVE DATA ACCESS RD (1)
PI STA. = 108+01.61
DELTA = 90° 06' 59"
D = 8° 11' 06"
T = 701.42
R = 700.00
PC STA. = 101+00.19
PT STA. = 112+01.17
e = EDIT

℄ CONST. ACCESS ROAD

ENC
STA. 101+02.00

PC STA. 101+00.19

ACCESS ROAD TO BE CONSTRUCTED BY OTHERS

CROSSWALK TO BE CONSTRUCTED BY OTHERS

S89°53'01"W

INSET B

Gainesville
Lake City

PROP. SIGN GS-2
84" X 144"
PLACE SIGN AT STA. 102+92, 55.47' LT
(℄ CONST. ACCESS ROAD)
STA. 508+49, 325.36 LT
(℄ SURVEY SR 25 (US 41))

700-2-115	1 EA

BFS
STA. 102+92.00

℄ CONST. ACCESS ROAD

0 10 50
Feet

R/W LINE

W3-3
30"X30"
STA. 511+60

700-1-111	1 EA

507 508 509 510 511 512 513

SR 25 (US 41)

℄ SURVEY US 41

STA 99+80.30 ℄ CONST. ACCESS RD.
STA. 508+74.49 ℄ SURVEY SR 25 (US 41)

R/W LINE

High Springs 11
Alachua 17
Gainesville 33

PROP. SIGN GS-1
72" X 156"
STA. 506+00 LT

700-2-115	1 EA

SPEED LIMIT 45

EXIST. TO REMAIN

TRUCKS ENTERING HIGHWAY

EXIST. TO REMAIN

STOP

EXIST. TO REMAIN

INSET A

505 506

BEGIN SIGNING
STA. 505+60.00

W3-3
30"X30"
STA. 505+60 RT

700-1-111	1 EA

LEGEND

- DELINEATOR, FLEXIBLE TUBULAR (YELLOW)
- DELINEATOR, FLEXIBLE TUBULAR (WHITE)
- DELINEATOR, NON FLEXIBLE (WHITE)
- OBJECT MARKER TYPE 2-2V

MATCHLINE STA. 514+00.00

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

BRYON S. WUCZYNSKI, P.E.
LICENSE NUMBER: 64090
OSIRIS 9 CONSULTING, LLC
13241 BARTRAM PARK BLVD STE 1109
JACKSONVILLE, FL 32258

COLUMBIA CO BOCC

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 25	COLUMBIA	445725-5-54-02

SIGNING AND PAVEMENT MARKING PLAN

SHEET NO. S-4

0 10 50
Feet

MATCHLINE STA. 514+00.00

MATCHLINE STA. 521+50.00

R5-1
30"X30"
STA. 516+20
700-1-111 | 1 EA

EXIST. TO REMAIN

EXIST. TO REMAIN

EXIST. TO REMAIN

R/W LINE

BEGIN PAVEMENT MARKING
STA. 517+93.56

℄ SURVEY US 41

SR 25 (US 41)

REMOVE EXISTING 6" YELLOW AND 6" YELLOW 10' - 30' SKIP FROM STATION 518+90 TO 519+10

6" DOUBLE YELLOW W/ Y/Y RPMs 6' CC

6" DOUBLE YELLOW W/ Y/Y RPMs 40' CC

+90 +10 +43.63 1.42' RT.

+51 +01 +82 +67

PAVEMENT ARROW (TYP.)

6" WHITE W/ W/R RPMs 20' CC

6" WHITE

6" DOUBLE YELLOW W/ Y/Y RPMs 20' CC

30' R

12'

+05 +41 +49 +17

REMOVE EXISTING 6" YELLOW AND 6" YELLOW 10' - 30' SKIP FROM STATION 518+05 TO 519+10

+10 +84.36 13.00' RT.

18" YELLOW (TYP.)

24" WHITE

20'

12'

+80 +02.27 9.64' LT.

6" DOUBLE YELLOW W/ Y/Y RPMs 20' CC

6" WHITE W/ W/R RPMs 20' CC

18" WHITE (TYP.)

+35

EXIST. CAR ENTRANCE ONLY SIGN TO BE RELOCATED BY OTHERS

EXIST. SIGN TO REMAIN

ALL - TECH RACEWAY

EXIST. TO REMAIN

STOP

R1-1
30"X30"
EXIST. TO BE REPLACED
STA. 519+70
700-1-111 | 1 EA

75 INTERSTATE JCT

EXIST. TO RELOCATE
STA. 516+35
700-1-500 | 1 EA

LEGEND	
◉	DELINEATOR, FLEXIBLE TUBULAR (YELLOW)
◉	DELINEATOR, FLEXIBLE TUBULAR (WHITE)
▮	DELINEATOR, NON FLEXIBLE (WHITE)
▸	OBJECT MARKER TYPE 2-2V

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REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

BRYON S. WUCZYNSKI, P.E.
LICENSE NUMBER: 64090
OSIRIS 9 CONSULTING, LLC
13241 BARTRAM PARK BLVD STE 1109
JACKSONVILLE, FL 32258

COLUMBIA CO BOCC

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 25	COLUMBIA	445725-5-54-02

SIGNING AND PAVEMENT MARKING PLAN

SHEET NO. S-5

LEGEND

- DELINEATOR, FLEXIBLE TUBULAR (YELLOW)
- DELINEATOR, FLEXIBLE TUBULAR (WHITE)
- DELINEATOR, NON FLEXIBLE (WHITE)
- OBJECT MARKER TYPE 2-2V

EXIST. TO REMAIN — SOUTH 441 SOUTH

EXIST. TO REMOVE (BY OTHERS). NEW SIGN ASSEMBLY TO BE INSTALLED (BY OTHERS) — STOP, US HWY 41, SW HOWELL RD

SW HOWELL RD

EXIST. TO RELOCATE STA. 524+47 — 700-1-500 | 1 EA

R3-7R 36"X36" STA. 524+79 — 700-1-111 | 1 EA — RIGHT LANE MUST TURN RIGHT

EXIST. TO RELOCATE STA. 525+40 — 700-1-500 | 1 EA — ALL-TECH RACEWAY

EXIST. TO RELOCATE STA. 526+40 — 700-1-500 | 1 EA — SPEED LIMIT 45

EXIST. TO REMAIN

R3-7R 36"X36" STA. 527+80 — 700-1-111 | 1 EA — RIGHT LANE MUST TURN RIGHT

EXIST. TO REMAIN — STOP

EXIST. TO REMAIN — SW WEBBS GLN

0 10 50 Feet

SEE PAVEMENT MARKING DETAIL SHEET FOR ADDITIONAL INFORMATION

R/W LINE

MATCHLINE STA. 521+50.00

MATCHLINE STA. 529+00.00

6" DOUBLE YELLOW W/ Y/Y RPMs 20' CC

18" YELLOW (TYP.)

+52

12'

+78.59 1.00' RT.

PAVEMENT ARROW (TYP.)

PAVEMENT MESSAGE (TYP.)

+30

+99.88 39.83' LT.

12" WHITE W/ W/R RPMs 20' CC

+53

6" WHITE W/ W/R RPMs 20' CC

20' (TYP.)

3' R

+20

+43

+26

+35

+70

6" DOUBLE YELLOW W/ Y/Y RPMs 20' CC

6" YELLOW 6'-10' DOTTED

SR 25 (US 41)

6" DOUBLE YELLOW W/ Y/Y RPMs 20' CC

18" YELLOW (TYP.)

3' R

+70

℄ SURVEY US 41

+09

+59

6" WHITE 10'-30' SKIP W/ W/R RPMs 40' CC

+42

+51

+67

+32

6" YELLOW 6'-10' DOTTED

4' R

+99.98 30.59' LT.

12" WHITE 3'-9" DOTTED W/ W/R RPMs 24' CC

+95.13 10.58' LT.

6" DOUBLE YELLOW W/ Y/Y RPMs 20' CC

+04

6" WHITE

+76.23 108.77' LT.

65' R

16'

+85

+76

+83

+81

6" WHITE

DURABLE YELLOW W/ MD/Y RPMs 8" CC

EXIST. OBJECT MARKER TO REMAIN

EXIST. OBJECT MARKER TO REMAIN

PROP. SIGN GS-3 102" X 138" STA. 521+80, 42.76' RT — 700-2-115 | 1 EA

RELOCATE EXIST. SIGN PANELS TO NEW SIGN ASSEMBLY WITH NEW SIGN STA. 522+87 — 700-1-113 | 1 EA; 700-3-501 | 2 EA

R3-5R 30"X36"

RELOCATE EXIST. STOP SIGN TO NEW SIGN ASSEMBLY, ADD NEW SIGN STA. 523+63 — 700-1-112 | 1 EA; 700-3-501 | 1 EA

EXIST. TO REMAIN

EXIST. TO REMOVE — 700-1-600 | 1 EA

PROP. SIGN GS-4 102" X 132" STA. 524+80, 42.51' RT — 700-2-115 | 1 EA

EXIST. TO REMOVE — 700-2-600 | 1 EA

PROP. SIGN GS-5 174" X 180" STA. 527+80, 44.50' RT — 700-2-117 | 1 EA

W3-3 30"X30" STA. 528+00 — 700-1-111 | 1 EA

OM1-3 18"X18" R4-7 24"X30" STA. 528+80 — 700-1-111 | 1 EA; 705-10-3 | 1 EA

① EXIST. TO RELOCATE STA. 516+35 — JCT I-75

② EXIST. TO RELOCATE STA. 526+55 — 700-1-500 | 1 EA

③ R6-1 36"X12" R5-1 30"X30" STA. 523+25 — 700-1-111 | 1 EA; 700-13-15 | 1 EA (WHITE)

④ EXIST. TO REMAIN — NO PARKING ON RIGHT OF WAY

⑤ R5-1 30"X30" R6-1 36"X12" STA. 522+66 STA. 523+47 — 700-1-111 | 2 EA

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REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

BRYON S. WUCZYNSKI, P.E.
LICENSE NUMBER: 64090
OSIRIS 9 CONSULTING, LLC
13241 BARTRAM PARK BLVD STE 1109
JACKSONVILLE, FL 32258

COLUMBIA CO BOCC

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 25	COLUMBIA	445725-5-54-02

SIGNING AND PAVEMENT MARKING PLAN

SHEET NO. S-6

T:\WorkSets\Columbia County\44572515201\SigningAndMarking\PLANSP01.dgn : US 41 - PLAN 3 [SHEET]
anguyen 8/29/2025 9:47:54 AM

0 10 50
Feet

LEGEND

- DELINEATOR, FLEXIBLE TUBULAR (YELLOW)
- DELINEATOR, FLEXIBLE TUBULAR (WHITE)
- DELINEATOR, NON FLEXIBLE (WHITE)
- OBJECT MARKER TYPE 2-2V

NOTE: WRONG WAY AND DO NOT ENTER SIGNS IN MEDIAN TO BE ROTATED 45-DEGREES TOWARD THE WRONG WAY MOVEMENT

MATCHLINE STA. 70+00.00

EXIST. TO REMOVE
700-1-600	1 EA

(5) STA. 532+00
(6) STA. 532+50
700-1-113	2 EA
700-13-15	2 EA (RED)

R5-1A 42"X30" STA. 71+00
700-1-111	1 EA
700-13-15	1 EA (RED)

STA. 529+60
700-1-112	1 EA
700-13-15	1 EA (RED)

STA. 531+00
700-1-113	1 EA
700-13-15	1 EA (RED)

R5-1 36"X36" DO NOT ENTER
R6-1 48"X18" ONE WAY
R6-1 48"X18" ONE WAY
R5-1 36"X36" DO NOT ENTER
R6-1 48"X18" ONE WAY
R6-1 48"X18" ONE WAY
R5-1 36"X36" DO NOT ENTER
STOP
ONE WAY
ONE WAY
DO NOT ENTER
R5-1 36"X36" DO NOT ENTER
WRONG WAY

6" WHITE W/ W/R RPMs 40' CC
6" YELLOW W/ Y/R RPMs 40' CC
LA R/W LINE
℄ CONST. RAMP D
6" WHITE W/ W/R RPMs 20' CC
SEE PAVEMENT MARKING DETAIL SHEET FOR ADDITIONAL INFORMATION
POWER SERVICE POLE FOR BRIDGE MOUNTED SIGN FLASHING BEACONS TO REMAIN
R3-1 36"X36" STA. 532+70
SOUTH INTERSTATE 75 Gainesville
PROP SIGN GS-2 108" X 138" STA. 533+00, 92.75' LT
700-2-116 | 1 EA
EXIST. TO REMOVE
700-2-600 | 1 EA
High Spgs Alachua
RAMP D
ONLY
12' 12' 12'

R/W LINE
12" WHITE 3'-9' DOTTED W/ W/R RPMs 24" CC
+27.41 60.27' LT.
+05
+78
6" WHITE
+23
PAVEMENT ARROW (TYP.)
6" WHITE W/ W/R RPMs 20' CC
+07
12' 12'
6" WHITE
PAVEMENT MESSAGE (TYP.)
+25
+25
6" WHITE W/ W/R RPMs 20' CC
10' (TYP.)
6" WHITE 10'-30' SKIP W/ W/R RPMs 40' CC
+48
+50
+62
+48
6" YELLOW
12' 12'
6" WHITE
12" WHITE 3'-9' DOTTED W/ W/R RPMs 24' CC

EXIST. TO REMOVE
700-1-600	1 EA

EXIST. TO REMOVE
700-1-600	1 EA

EXIST. TO RELOCATE STA. 69+80
700-1-500	1 EA

EXIST. TO REMOVE
700-1-600	1 EA

R4-7 24"X30"
OM1-3 18"X18"
STA. 532+73
700-1-111	1 EA
705-10-3	1 EA

R10-17A 30"X36" STA. 531+31
700-1-111	1 EA

NOTE: SIGN TO BE ROTATED 45-DEGREES TOWARD THE RAMP D DUAL RIGHT TURN STOP BAR

MATCHLINE STA. 529+00.00

+21
6" WHITE 10'-30' SKIP W/ W/R RPMs 40' CC
+26.71 11.00' LT.
+48
6" WHITE
R/W LINE
℄ SURVEY US 41
SR 25 (US 41)
6" YELLOW W/ Y/R RPMs 20' CC
6" WHITE
12" WHITE 3'-9' DOTTED W/ W/R RPMs 24' CC

R5-1 36"X36" DO NOT ENTER
R6-1 48"X18" ONE WAY
700-1-112 | 1 EA
700-13-15 | 1 EA (RED)
700-13-15 | 1 EA (WHITE)
STA. 530+20

129 R
19
8" WHITE YIELD LINE
+69.71 79.72' RT.
+66.73 73.40' RT.
R3-18L 36"X36" STA. 531+62
700-1-111 | 1 EA
+76.94 144.84' RT.
+61.03 143.17' RT.

LANE ENDS MERGE RIGHT
EXIST. TO REMOVE
700-1-600 | 1 EA

LEFT LANE MUST TURN LEFT
R3-7L 36"X36" STA. 533+46
700-1-111 | 1 EA

WRONG WAY
R5-1A 42"X30" STA. 531+00
700-1-111 | 1 EA
700-13-15 | 1 EA (RED)

SOUTH INTERSTATE 75
EXIST. TO REMOVE
700-1-600 | 1 EA

Lake City 14
White Springs 26
Jasper 43
PROP. SIGN GS-7 72" X 168" STA. 534+20
700-2-115 | 1 EA

41 441 NORTH NORTH
EXIST. TO RELOCATE STA. 534+77
700-1-500 | 1 EA

SOUTH INTERSTATE 75
M3-3 24"X12" M1-1 24"X24" M6-2L 21"X15"
STA. 531+64
700-1-111 | 1 EA

EXIST. TO RELOCATE STA. 530+84
700-1-500 | 1 EA

EXIST. TO RELOCATE STA. 532+33
700-1-500 | 1 EA

EXIST. TO REMOVE
700-1-600 | 1 EA

EXIST. TO RELOCATE STA. 531+62
700-1-500 | 1 EA

MATCHLINE STA. 536+50.00

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REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

BRYON S. WUCZYNSKI, P.E.
LICENSE NUMBER: 64090
OSIRIS 9 CONSULTING, LLC
13241 BARTRAM PARK BLVD STE 1109
JACKSONVILLE, FL 32258

COLUMBIA CO BOCC

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 25	COLUMBIA	445725-5-54-02

SIGNING AND PAVEMENT MARKING PLAN

SHEET NO. S-7

0 10 50
Feet

PROP. SIGN GS-8
72" X 156"
STA. 538+15
700-2-115 | 1 EA

EXIST. TO RELOCATE
STA. 538+56
700-1-500 | 1 EA

EXIST. TO REMOVE
700-1-600 | 1 EA

EXIST. TO REMOVE
700-2-600 | 1 EA

℄ CONST. RAMP C

MATCHLINE STA. 41+80.00

EXIST. TO REMAIN

6" WHITE W/ W/R RPMs 20' CC

LA R/W LINE

18" WHITE (TYP.)

SEE PAVEMENT MARKING DETAIL SHEET FOR ADDITIONAL INFORMATION

EXIST. TO REMOVE
700-1-600 | 1 EA

R/W LINE

6" WHITE

6" WHITE 10'-30' SKIP W/ W/R RPMs 40' CC

6" YELLOW

6" DOUBLE YELLOW W/ Y/Y RPMs 20' CC

20' (TYP.)

+12.94
11.00' LT.

SR 25 (US 41)

PAVEMENT ARROW (TYP.)

18" YELLOW (TYP.)

+12.94
23.00' LT.

6" YELLOW

+16

+41

ONLY

12" WHITE 3'-9' DOTTED W /W/R RPMs 24' CC

℄ SURVEY US 41

6" WHITE W/ W/R RPMs 20' CC

PAVEMENT MESSAGE (TYP.)

PROP. SIGN GS-9
108" X 132"
STA. 539+40, 42.50' RT
700-2-115 | 1 EA

EXIST. TO REMOVE
700-1-600 | 1 EA

High Spring 12 18 35
Alachua
Gainesville

SPEED LIMIT 45

LANE ENDS MERGE LEFT

EXIST. TO REMAIN
SOUTH INTERSTATE 75

High Spring 12 35
Gainesville

+72.24
140.05' LT.

RAMP C

120' R

18" WHITE (TYP.)

15'

+11.49
38.92' LT.

6" WHITE 10'-30' SKIP W/ W/R RPMs 40' CC

EXIST. SIGN TO REMAIN

6" YELLOW

6" YELLOW 10'-30' SKIP W/ Y/Y RPMs 40' CC

209.5' R

+12

6" WHITE

+62

18" YELLOW (TYP.)

DURABLE YELLOW W/ MD/Y RPMs 8" CC

24" WHITE

87' R

20' R

+40.75
15.00' RT.

+83.61
29.60' RT.

+11.12
15.00' RT.

6" WHITE
18" WHITE (TYP.)

+22

+41

ONLY

18" WHITE (TYP.)

6" WHITE W/ W/R RPMs 40' CC

EXIST. TO REMAIN
℄ CONST. RAMP B

6" YELLOW W/ Y/R RPMs 40' CC

6" WHITE W/ W/R RPMS 20' CC

RAMP B

12' 12' 12'

WRONG WAY

R5-1A
42"X30"
STA. 32+32
700-1-113 | 2 EA
700-13-15 | 2 EA (RED)

DO NOT ENTER

ONE WAY

STOP

EXIST. TO REMOVE
700-1-600 | 1 EA

EXIST. TO REMAIN
/R5-1
36"X36"
STA. 542+35
700-1-111 | 2 EA
700-13-15 | 2 EA (RED)

EXIST. TO REMAIN
700-13-15 | 2 EA (WHITE)

① EXIST. TO REMOVE
700-1-600 | 1 EA

② R4-7 24"X30" OM1-3 18"X18"
STA. 539+79
700-1-111 | 1 EA
705-10-3 | 1 EA

③ EXIST. TO REMOVE
700-1-600 | 1 EA

④ ⑨ R5-1 36"X36"
R6-1 48"X18" R6-1 48"X18"
④ STA. 540+18
⑨ STA. 541+20
700-1-113 | 2 EA
700-13-15 | 2 EA (RED)

⑤ EXIST. TO REMOVE
700-1-600 | 1 EA

⑥ R5-1A
42"X30"
STA. 541+00
700-1-111 | 1 EA
700-13-15 | 1 EA (RED)

NOTE: WRONG WAY AND DO NOT ENTER SIGNS IN MEDIAN TO BE ROTATED 45-DEGREES TOWARD THE WRONG WAY MOVEMENT

⑦ R3-18L
36"X36"
STA. 541+10
700-1-111 | 1 EA

⑧ EXIST. TO REMOVE
700-1-600 | 1 EA

⑩ EXIST. TO RELOCATE
STA. 541+42
700-1-500 | 1 EA

⑪ EXIST. TO RELOCATE
STA. 542+00
700-1-500 | 1 EA

⑫ R4-7 24"X30" OM1-3 18"X18"
STA. 543+20
700-1-111 | 1 EA
705-10-3 | 1 EA

⑬ M6-2L 21"X15" M1-1 24"X24" M3-1 24"X12"
STA. 541+00
700-1-111 | 1 EA

⑭ R10-17A
30"X36"
STA. 541+21
700-1-111 | 1 EA

NOTE: SIGN TO BE ROTATED 45-DEGREES TOWARD THE RAMP B RIGHT TURN STOP BAR

LEGEND

- DELINEATOR, FLEXIBLE TUBULAR (YELLOW)
- DELINEATOR, FLEXIBLE TUBULAR (WHITE)
- DELINEATOR, FLEXIBLE TUBULAR (WHITE)
- DELINEATOR, NON FLEXIBLE (WHITE)
- OBJECT MARKER TYPE 2-2V

MATCHLINE STA. 536+50.00

MATCHLINE STA. 544+00.00

MATCHLINE STA. 31+20.00

LA R/W LINE

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

BRYON S. WUCZYNSKI, P.E.
LICENSE NUMBER: 64090
OSIRIS 9 CONSULTING, LLC
13241 BARTRAM PARK BLVD STE 1109
JACKSONVILLE, FL 32258

COLUMBIA CO BOCC

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 25	COLUMBIA	445725-5-54-02

SIGNING AND PAVEMENT MARKING PLAN

SHEET NO. S-8

THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.

T:\WorkSets\Columbia County\44572515201\SigningAndMarking\PLANSP01.dgn : US 41 - PLAN 5 [SHEET]
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PROP. SIGN GS-10
174" X 180"
STA. 544+20, 98.29' LT

700-2-117 | 1 EA

SOUTH 75 Gainesville
NORTH 75 Lake City

EXIST. TO REMOVE
700-2-600 | 1 EA

High Spgs
Alachua

W3-3
30"X30"
STA. 544+80
700-1-111 | 1 EA

EXIST. TO REMAIN
STOP

EXIST. TO REMOVE
700-1-600 | 1 EA

SOUTH NORTH INTERSTATE 75

PROP. SIGN GS-11
84" X 150"
STA. 547+40
700-2-115 | 1 EA

Gainesville
Lake City

EXIST. TO REMAIN
14'-4"

STA. 548+10
700-1-112 | 1 EA

ONLY
R3-5R
30"X36"
STOP
R1-1
30"X30"

EXIST. TO REMAIN
JCT
INTERSTATE 75

EXIST. TO REMAIN
EXIST. TO REMAIN
EXIST. TO REMAIN

0 10 50
Feet

R/W LINE

6" WHITE
+95
6" WHITE 10'-30' SKIP
W/ W/R RPMs 40' CC
+99.54
47.87' LT.
6" YELLOW 10'-30' SKIP
W/ Y/Y RPMs 40' CC
6" YELLOW
W/ Y/Y RPMs 40' CC
+82
+43
6" DOUBLE YELLOW
W/ Y/Y RPMs 40' CC
+11.11
49.23' LT.
24" WHITE
+21.32
32.54' LT.
+63.15
14.89' LT.
+62.97
0.43' LT.
3' R
+04
+36
+81.30
1.73' LT.
+06.31
3.19' LT.
+94.82
8.10' RT.
12'
20'
12'
12'
544
545
546
547
548
549
550
551
℄ SURVEY US 41
SR 25 (US 41)
+64
+88
+09
+34
6" WHITE W/
W/R RPMs 20' CC
20' R
12'
12'
+01
+20
+20.52
23.99' LT.
6" WHITE
+20.02
12.42' LT.
6" DOUBLE YELLOW
W/ Y/Y RPMs 40' CC
+02
6' R
END SIGNING AND PAVEMENT MARKING
STA. 550+08.00
6" WHITE
+80
PAVEMENT
ARROW (TYP.)
EXIST. DELINEATORS
TO REMAIN (TYP.)
R/W LINE
TIE PROP. 6" WHITE
TO EXIST. 6" WHITE
2083' R
+46
+32.28
15.00' RT.
24" WHITE
+08.26
15.00' RT.
MATCHLINE STA. 544+00.00

JCT 238
EXIST. TO REMAIN

STOP
EXIST. TO REMAIN

SPEED LIMIT 45
EXIST. TO REMAIN

NO PARKING ON RIGHT OF WAY
EXIST. TO REMAIN

DO NOT ENTER WRONG WAY
EXIST. TO REMAIN

238 EAST
EXIST. TO RELOCATE
STA. 548+87
700-1-500 | 1 EA

STOP
EXIST. TO REMAIN

FL-238

R/W LINE
R/W LINE

LEGEND

- DELINEATOR, FLEXIBLE TUBULAR (YELLOW)
- DELINEATOR, FLEXIBLE TUBULAR (WHITE)
- DELINEATOR, NON FLEXIBLE (WHITE)
- OBJECT MARKER TYPE 2-2V

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

BRYON S. WUCZYNSKI, P.E.
LICENSE NUMBER: 64090
OSIRIS 9 CONSULTING, LLC
13241 BARTRAM PARK BLVD STE 1109
JACKSONVILLE, FL 32258

COLUMBIA CO BOCC

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 25	COLUMBIA	445725-5-54-02

SIGNING AND PAVEMENT MARKING PLAN

SHEET NO. S-9

0 10 50
Feet

LEGEND
DELINEATOR, FLEXIBLE TUBULAR (YELLOW)
DELINEATOR, FLEXIBLE TUBULAR (WHITE)
DELINEATOR, NON FLEXIBLE (WHITE)
OBJECT MARKER TYPE 2-2V

W3-3
48"X48"
STA. 64+60

700-1-112	1 EA

EXIST. TO REMOVE

700-1-600	2 EA

FTP-40-21
42"X48"
STA. 67+27

700-1-112	1 EA

FLORIDA LITTER LAW
$150 MIN FINE FOR LITTERING

EXIST. TO REMAIN

14'-4"

R5-1A
42"X30"
STA. 68+30

700-1-111	1 EA
700-13-15	1 EA (RED)

WRONG WAY

EXIST. TO REMOVE

700-1-600	1 EA

WRONG WAY

6" WHITE W/ W/R RPMs 20' CC
6" YELLOW W/ Y/R RPMs 40' CC
+30.89
16.00' LT.
+81
+48
PAVEMENT ARROW (TYP.)
PAVEMENT MESSAGE
+33
ONLY
+30.89
0.00' RT.
+33
+81
12'
12'
12'

64 65 66 67 68 69 7

℄ CONST. RAMP D
RAMP D

BE(B) BFOC(B) BFOT(B)

LA R/W LINE

6" WHITE W/ W/R RPMs 40' CC

MATCHLINE STA. 70+00.00

CAMPING
LODGING

EXIST. TO REMAIN

W3-3
48"X48"
STA. 64+60

700-1-112	1 EA

FOOD

EXIST. TO REMAIN

GAS

EXIST. TO REMAIN

FLORIDA LITTER LAW
$100 MIN FINE FOR LITTERING

EXIST. TO REMOVE

700-1-600	1 EA

Lake City 14
High Spgs 12

EXIST. TO REMAIN

WRONG WAY

R5-1A
42"X30"
STA. 68+30

700-1-111	1 EA
700-13-15	1 EA (RED)

O'leno State Park
Ichetuknee Springs State Park

REMOVE EXIST.
MULTI-COLUMN SIGN
PROP. SIGN GS-12
108" X 192"
STA. 66+80

700-2-116	1 EA
700-2-600	1 EA

DIVIDED HIGHWAY

441

EXIST. TO RELOCATE
STA. 69+80

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REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

BRYON S. WUCZYNSKI, P.E.
LICENSE NUMBER: 64090
OSIRIS 9 CONSULTING, LLC
13241 BARTRAM PARK BLVD STE 1109
JACKSONVILLE, FL 32258

COLUMBIA CO BOCC

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 25	COLUMBIA	445725-5-54-02

SIGNING AND PAVEMENT MARKING PLAN

SHEET NO. S-10

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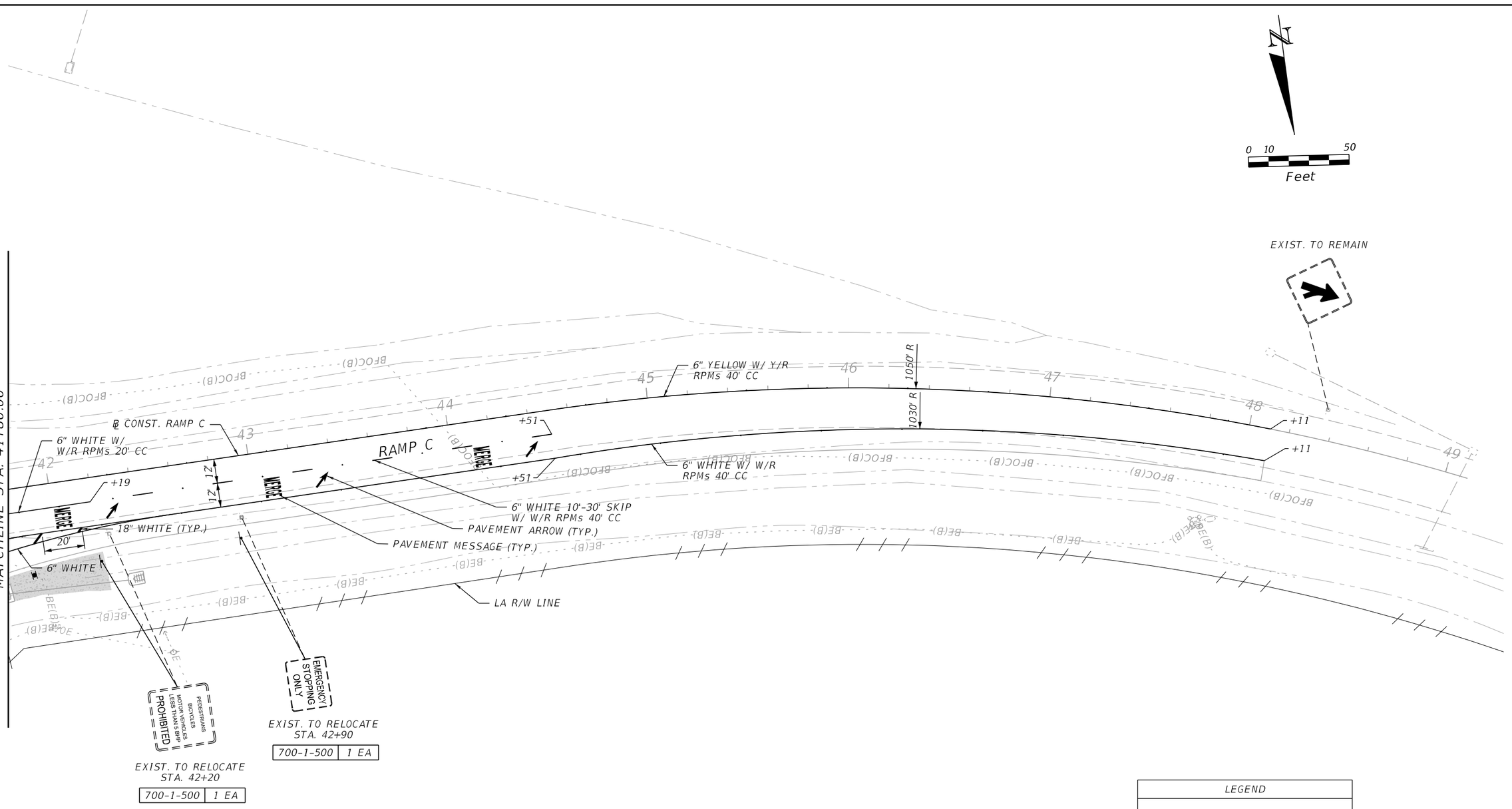

LEGEND
DELINEATOR, FLEXIBLE TUBULAR (YELLOW)
DELINEATOR, FLEXIBLE TUBULAR (WHITE)
DELINEATOR, NON FLEXIBLE (WHITE)
OBJECT MARKER TYPE 2-2V

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

BRYON S. WUCZYNSKI, P.E.
LICENSE NUMBER: 64090
OSIRIS 9 CONSULTING, LLC
13241 BARTRAM PARK BLVD STE 1109
JACKSONVILLE, FL 32258

COLUMBIA CO BOCC

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 25	COLUMBIA	445725-5-54-02

SIGNING AND PAVEMENT MARKING PLAN

SHEET NO. S-11

THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.

0 10 50
Feet

W3-3
48"X48"
STA. 25+60
700-1-112 | 2 EA

FTP-40-21
42"X48"
STA. 26+64
700-1-112 | 1 EA

$ 150 MIN FINE FOR LITTERING
FLORIDA LITTER LAW

EXIST. TO REMOVE
700-1-600 | 2 EA

EXIST. TO REMOVE
700-1-600 | 1 EA

EXIST. TO REMAIN

EXIST. TO REMAIN
14'-4"

EXIST. TO REMAIN
O'Leno State Park
Ichetucknee Springs
State Park

EXIST. TO REMAIN
High Spgs. 12
Lake City 14

EXIST. TO REMAIN
WRONG WAY

RAMP B

℄ CONST. RAMP B

24 25 26 27 28 29 30 31

+98
+97.95
16.00' RT.
+83
+48

6" YELLOW W/ W/R RPMs 40' CC
PAVEMENT ARROW (TYP.)
PAVEMENT MESSAGE
ONLY
12'
12'
12'
6" WHITE W/ W/R RPMs 20' CC
6" WHITE W/ W/R RPMs 40' CC

MATCHLINE STA. 31+20.00

LEGEND

- DELINEATOR, FLEXIBLE TUBULAR (YELLOW)
- DELINEATOR, FLEXIBLE TUBULAR (WHITE)
- DELINEATOR, NON FLEXIBLE (WHITE)
- OBJECT MARKER TYPE 2-2V

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

BRYON S. WUCZYNSKI, P.E.
LICENSE NUMBER: 64090
OSIRIS 9 CONSULTING, LLC
13241 BARTRAM PARK BLVD STE 1109
JACKSONVILLE, FL 32258

COLUMBIA CO BOCC

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 25	COLUMBIA	445725-5-54-02

SIGNING AND PAVEMENT MARKING PLAN

SHEET NO. S-12

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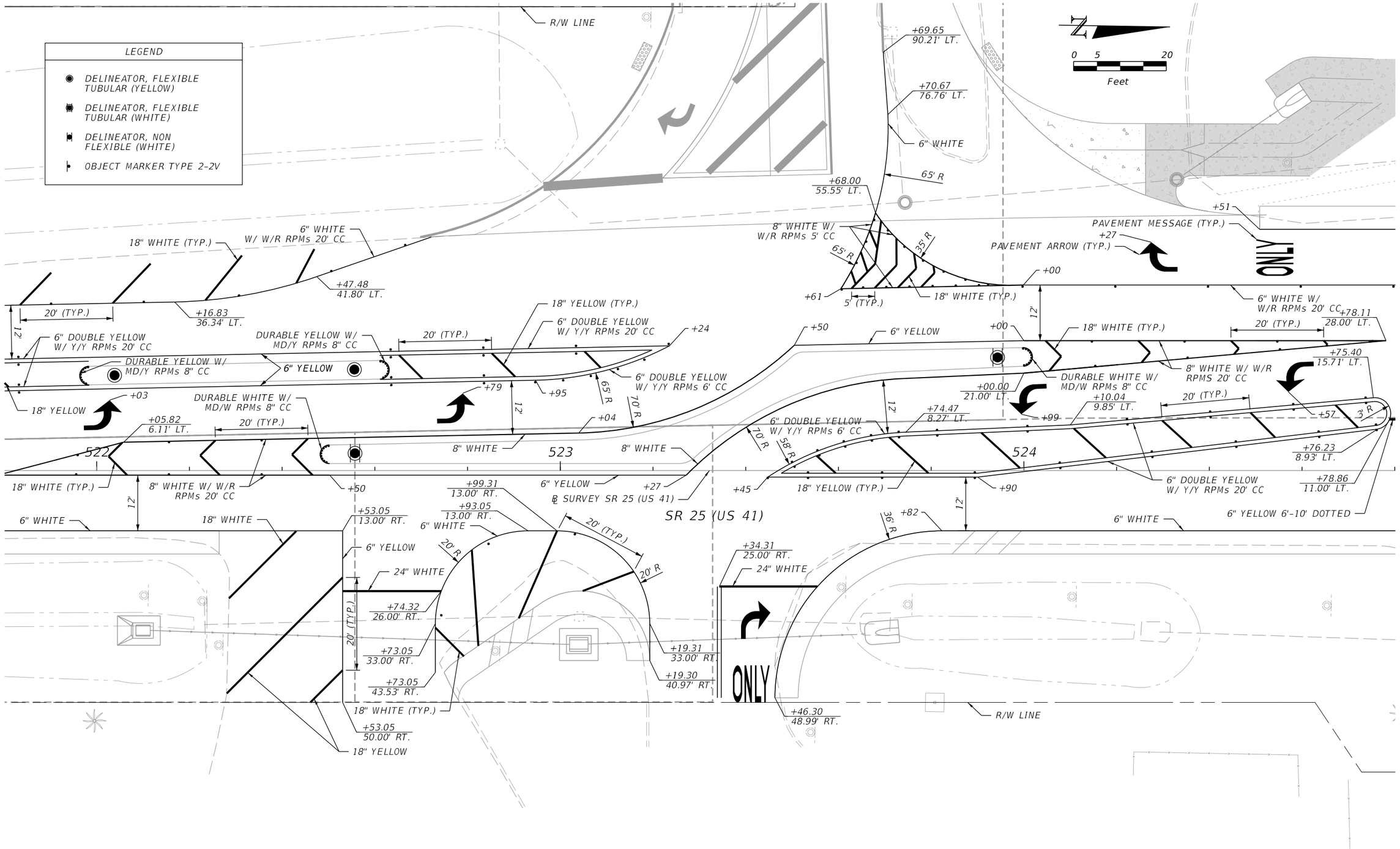

THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

BRYON S. WUCZYNSKI, P.E.
LICENSE NUMBER: 64090
OSIRIS 9 CONSULTING, LLC
13241 BARTRAM PARK BLVD STE 1109
JACKSONVILLE, FL 32258

COLUMBIA CO BOCC

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 25	COLUMBIA	445725-5-54-02

PAVEMENT MARKING DETAILS

SHEET NO. S-13

T:\WorkSets\Columbia County\445725152O1\SigningAndMarking\SPDTSP-INTERSECTION-01.dgn : SHEET- HOWELL RD DETAIL
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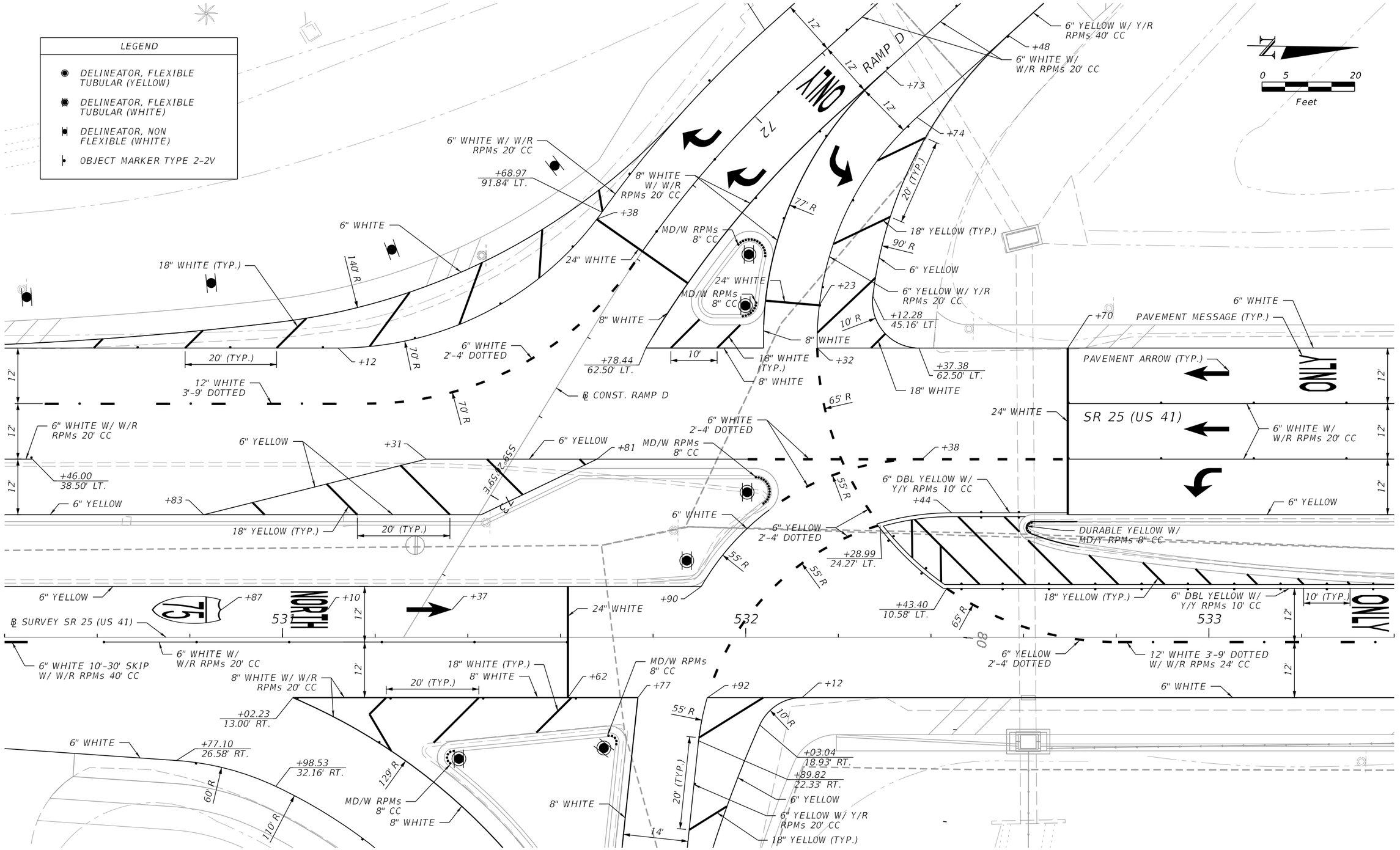

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REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

BRYON S. WUCZYNSKI, P.E.
LICENSE NUMBER: 64090
OSIRIS 9 CONSULTING, LLC
13241 BARTRAM PARK BLVD STE 1109
JACKSONVILLE, FL 32258

COLUMBIA CO BOCC

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 25	COLUMBIA	445725-5-54-02

PAVEMENT MARKING DETAILS

SHEET NO. S-14

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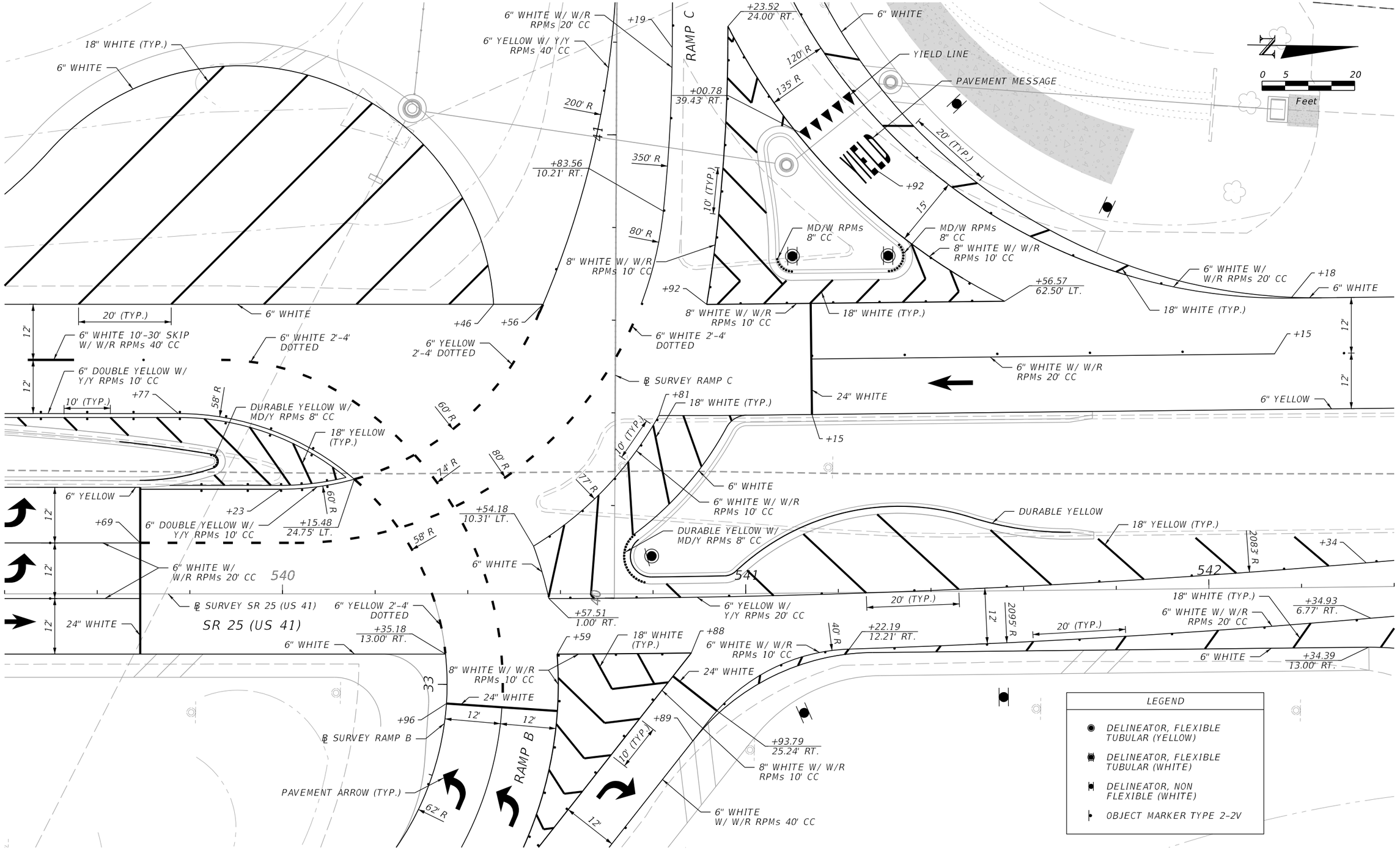

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

BRYON S. WUCZYNSKI, P.E.
LICENSE NUMBER: 64090
OSIRIS 9 CONSULTING, LLC
13241 BARTRAM PARK BLVD STE 1109
JACKSONVILLE, FL 32258

COLUMBIA CO BOCC		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 25	COLUMBIA	445725-5-54-02

PAVEMENT MARKING DETAILS

SHEET NO. S-15

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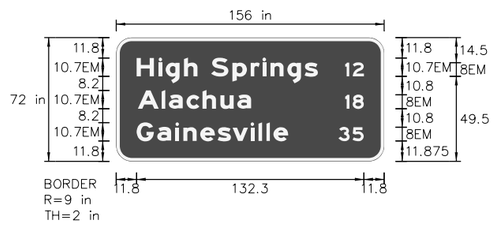
SIGN NAME	GS-8	QTY	1	SIGN NUMBER	STATION(S)
PANEL		BORDER			538+15
WIDTH	13'-0"	WIDTH	2"		
HEIGHT	6'-0"	RADII	9"		
LEGEND	White	COLOR	White		
COLOR	Green				

SYMBOL(S)	ANGLE	X	Y	WID	HT

SIGN NUMBER	NUMBER OF POSTS	CLEARANCE Edge Of Lane	COLUMN SIZE		AVERAGE LENGTH



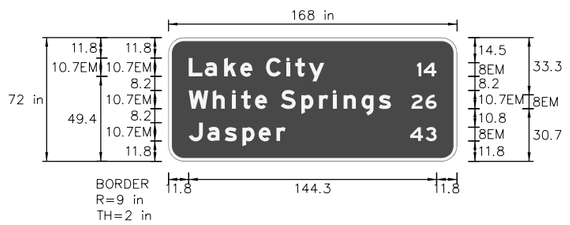
NO. OF LIGHT FIXTURES | FIXTURE SPACING | PHOTOMETRIC CURVE | WATT | VOLTAGE

COPY	H	i	g	h	S	p	r	i	n	g	s		L													
SPACE	11.8	24.7	28.8	39.375	55.3	67.7	78.2	85.2	89.7	99.6	109.6		105.5													
COPY	1	2		L																						
SPACE	133.3	137.7		10.875																						
COPY	A	l	a	c	h	u	a		L																	
SPACE	12.6	26.5	30.6	40.875	50.2	60.625	70.4		66																	
COPY	1	8		L																						
SPACE	133.3	137.7		10.8																						
COPY	G	a	i	n	e	s	v	i	l	l	e		L													
SPACE	11.8	23.8	34.5	39.1	48.875	59	67.8	78.2	82.8	87.4	91.6		88.25													
COPY	3	5		L																						
SPACE	129.4	137.6		14.6																						

SIGN NAME	GS-7	QTY	1	SIGN NUMBER	STATION(S)
PANEL		BORDER			534+20
WIDTH	14'-0"	WIDTH	2"		
HEIGHT	6'-0"	RADII	9"		
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



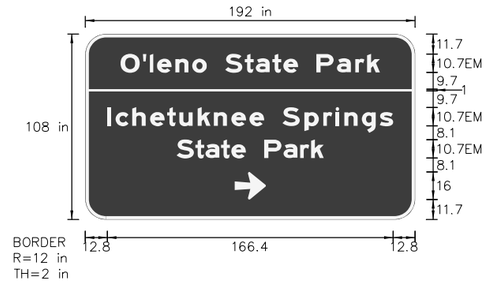
NO. OF LIGHT FIXTURES | FIXTURE SPACING | PHOTOMETRIC CURVE | WATT | VOLTAGE

COPY	L	a	k	e	C	i	t	y		L																
SPACE	11.8	21.1	32.5	41.8	56.875	68.5	73.9	81.625		78.9																
COPY	1	4		L																						
SPACE	144.8	148.6		11.2																						
COPY	W	h	i	t	e	S	p	r	i	n	g	s		L												
SPACE	11.8	25.7	37	42.375	50.375	65.4	77.375	87.7	95.6	102	112.4	122.5		117.7												
COPY	2	6		L																						
SPACE	141.5	149.7		14.6																						
COPY	J	a	s	p	e	r		L																		
SPACE	11.8	22.625	32.8	43.125	52.5	62.9		56.3																		
COPY	4	3		L																						
SPACE	140.7	149.7		15.4																						

SIGN NAME	GS-12	QTY	1	SIGN NUMBER	STATION(S)
PANEL		BORDER			66+80
WIDTH	16'-0"	WIDTH	2"		
HEIGHT	9'-0"	RADII	12"		
LEGEND	White	COLOR	White		
COLOR	Brown / Brown				

SYMBOL(S)	ANGLE	X	Y	WID	HT
AR_Type B	270	87	11.7	16	18.2

SIGN NUMBER	NUMBER OF POSTS	CLEARANCE Edge Of Lane	COLUMN SIZE		AVERAGE LENGTH



NO. OF LIGHT FIXTURES | FIXTURE SPACING | PHOTOMETRIC CURVE | WATT | VOLTAGE

COPY	O	'	l	e	n	o		S	t	a	t	e		P	a	r	k		L							
SPACE	20.5	33.5	37.5	41.7	52.4	62.2	70.7	81.4	92.8	99.2	109	115.3	123.9	134.5	146.5	157.1	164.1		151.1							
COPY	l	c	h	e	t	u	k	n	e	e		S	p	r	i	n	g	s		L						
SPACE	12.8	17.625	27.25	37.7	47.6	54.7	65.4	74.8	85	95.5	104.1	114.75	127.6	138.5	145.75	150.8	161	171.4		166.4						
COPY	S	t	a	t	e		P	a	r	k		L														
SPACE	53.2	64	70	79	85	93.5	104.2	115.375	125.1	131.375		85.7														
COPY																										
SPACE																										
COPY																										
SPACE																										
COPY																										
SPACE																										

SIGN NAME	GS-10	QTY	1	SIGN NUMBER	STATION(S)
PANEL		BORDER			544+20
WIDTH	15'-0"	WIDTH	2"		
HEIGHT	14'-6"	RADII	12"		
LEGEND	White	COLOR	White		
COLOR	Green / Green				

SYMBOL(S)	ANGLE	X	Y	WID	HT
M1_1	0	51.6	126.5	36	36
AR_Type B	0	18.2	103.125	20	22.8
M1_1	0	21	42.625	36	36
AR_Type B	270	136.25	16	20	22.8

SIGN NUMBER	NUMBER OF POSTS	CLEARANCE Edge Of Lane	COLUMN SIZE		AVERAGE LENGTH

NO. OF LIGHT FIXTURES | FIXTURE SPACING | PHOTOMETRIC CURVE | WATT | VOLTAGE

COPY	S	O	U	T	H		L																			
SPACE	97.6	107.2	115.8	123.75	131.1		40																			
COPY	G	a	i	n	e	s	v	i	l	l	e		L													
SPACE	51.6	66.5	79.8	85.6	97.8	110.5	121.4	134.5	140.2	146	151.2		110.25													
COPY	N	O	R	T	H		L																			
SPACE	67	78	88.125	96.7	105		45.5																			
COPY	L	a	k	e		C	i	t	y		L															
SPACE	21	32.6	46.7	58.5	67.3	80.6	95.125	101.8	111.5		101.9															
COPY																										
SPACE																										
COPY																										
SPACE																										

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

BRYON S. WUCZYNSKI, P.E.
LICENSE NUMBER: 64090
OSIRIS 9 CONSULTING, LLC
13241 BARTRAM PARK BLVD STE 1109
JACKSONVILLE, FL 32258

COLUMBIA CO BOCC		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 25	COLUMBIA	445725-5-54-02

GUIDE SIGN WORKSHEET

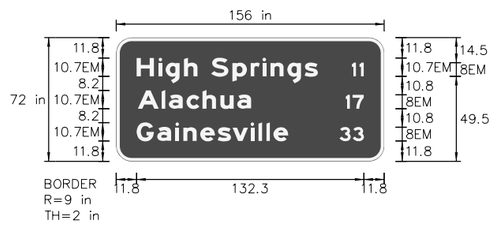
SHEET NO. S-16

THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.

SIGN NAME	GS-1	QTY	1	SIGN NUMBER	STATION(S)
PANEL		BORDER			506+00
WIDTH	13'-0"	WIDTH	2"		
HEIGHT	6'-0"	RADII	9"		
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



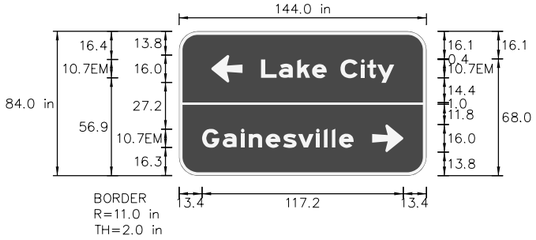
NO. OF LIGHT FIXTURES | FIXTURE SPACING | PHOTOMETRIC CURVE | WATT | VOLTAGE

COPY	H	i	g	h	S	p	r	i	n	g	s		L													
SPACE	11.9	24.7	28.8	39.4	55.3	67.7	78.2	85.2	89.7	99.6	109.6		105.5													
COPY	1	1		L																						
SPACE	137.2	141.7		6.9																						
COPY	A	l	a	c	h	u	a		L																	
SPACE	12.6	26.5	30.6	40.9	50.2	60.6	70.4		66.0																	
COPY	1	7		L																						
SPACE	133.6	137.6		10.5																						
COPY	G	a	i	n	e	s	v	i	l	l	e		L													
SPACE	11.9	23.8	34.5	39.1	48.9	59.0	67.8	78.2	82.8	87.4	91.6		88.3													
COPY	3	3		L																						
SPACE	130.0	137.7		14.2																						

SIGN NAME	GS-2	QTY	1	SIGN NUMBER	STATION(S)
PANEL		BORDER			508+49
WIDTH	12'-0"	WIDTH	2"		
HEIGHT	7'-0"	RADII	11"		
LEGEND	White	COLOR	White		
COLOR	Green / Green				

SYMBOL(S)	ANGLE	X	Y	WID	HT
AR_Type B	90.0	18.8	54.3	16.0	18.2
AR_Type B	270.0	112.4	13.8	16.0	18.2

SIGN NUMBER	NUMBER OF POSTS	CLEARANCE Edge Of Lane	COLUMN SIZE		AVERAGE LENGTH



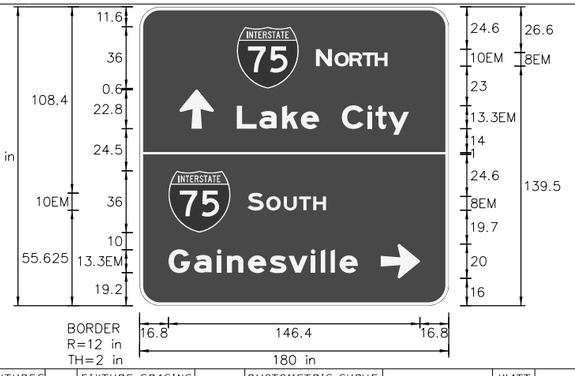
NO. OF LIGHT FIXTURES | FIXTURE SPACING | PHOTOMETRIC CURVE | WATT | VOLTAGE

COPY	L	a	k	e	C	i	t	y		L																
SPACE	47.7	58.1	68.8	77.4	94.0	106.0	109.7	115.4		77.6																
COPY	G	a	i	n	e	s	v	i	l	l	e		L													
SPACE	13.4	25.4	36.1	40.6	50.5	60.6	69.3	79.8	84.4	89.0	93.1		88.3													
COPY																										
SPACE																										
COPY																										
SPACE																										
COPY																										
SPACE																										
COPY																										
SPACE																										
COPY																										
SPACE																										

SIGN NAME	GS-5	QTY	1	SIGN NUMBER	STATION(S)
PANEL		BORDER			527+80
WIDTH	15'-0"	WIDTH	2"		
HEIGHT	14'-6"	RADII	12"		
LEGEND	White	COLOR	White		
COLOR	Green / Green				

SYMBOL(S)	ANGLE	X	Y	WID	HT
M1_1	0	56.6	126.5	36	36
AR_Type B	0	23.2	103.125	20	22.8
M1_1	0	16.8	42.625	36	36
AR_Type B	270	140.4	16	20	22.8

SIGN NUMBER	NUMBER OF POSTS	CLEARANCE Edge Of Lane	COLUMN SIZE		AVERAGE LENGTH



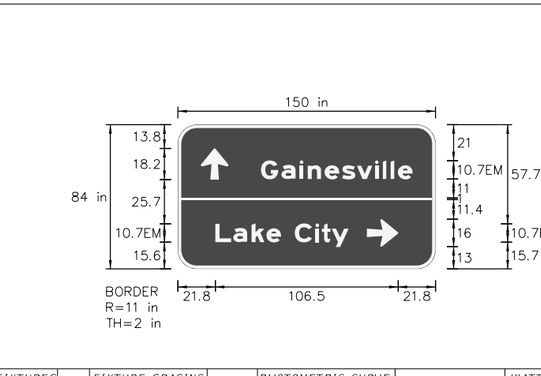
NO. OF LIGHT FIXTURES | FIXTURE SPACING | PHOTOMETRIC CURVE | WATT | VOLTAGE

COPY	N	O	R	T	H		L																			
SPACE	102.6	113.5	122.125	129.8	136.8		41.8																			
COPY	L	a	k	e		C	i	t	y		L															
SPACE	56.6	69.7	83	93.8	104.4	117.8	132.8	137.4	144.6		100.25															
COPY	S	O	U	T	H		L																			
SPACE	62.8	73.7	84	92.8	101.1		45.8																			
COPY	G	a	i	n	e	s	v	i	l	l	e		L													
SPACE	16.8	31.7	45.1	50.8	63.1	75.7	86.7	99.7	105.5	111.2	116.375		110.25													
COPY																										
SPACE																										
COPY																										
SPACE																										

SIGN NAME	GS-11	QTY	1	SIGN NUMBER	STATION(S)
PANEL		BORDER			547+40
WIDTH	12'-6"	WIDTH	2"		
HEIGHT	7'-0"	RADII	11"		
LEGEND	White	COLOR	White		
COLOR	Green / Green				

SYMBOL(S)	ANGLE	X	Y	WID	HT
AR_Type B	0	13.375	52	16	18.2
AR_Type B	270	110	13	16	18.2

SIGN NUMBER	NUMBER OF POSTS	CLEARANCE Edge Of Lane	COLUMN SIZE		AVERAGE LENGTH



NO. OF LIGHT FIXTURES | FIXTURE SPACING | PHOTOMETRIC CURVE | WATT | VOLTAGE

COPY	G	a	i	n	e	s	v	i	l	l	e		L													
SPACE	48.375	60.3	71	75.6	85.4	95.5	104.3	114.75	119.3	124	128.1		88.25													
COPY	L	a	k	e	C	i	t	y		L																
SPACE	21.8	32.2	42.9	51.5	68.1	80.125	83.8	89.5		77.6																
COPY																										
SPACE																										
COPY																										
SPACE																										
COPY																										
SPACE																										
COPY																										
SPACE																										

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

BRYON S. WUCZYNSKI, P.E.
LICENSE NUMBER: 64090
OSIRIS 9 CONSULTING, LLC
13241 BARTRAM PARK BLVD STE 1109
JACKSONVILLE, FL 32258

COLUMBIA CO BOCC		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 25	COLUMBIA	445725-5-54-02

GUIDE SIGN WORKSHEET

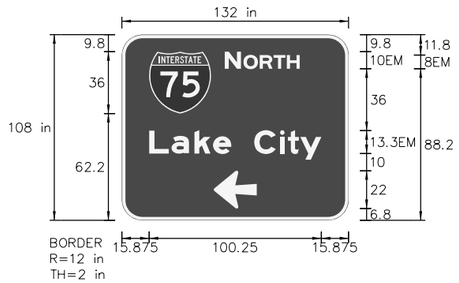
SHEET NO. S-17

THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.

SIGN NAME	GS-9	QTY	1	SIGN NUMBER	STATION(S)
PANEL		BORDER			539+40
WIDTH	11'-0"	WIDTH	2"		
HEIGHT	9'-0"	RADII	12"		
LEGEND	White	COLOR	White		
COLOR	Green				

SYMBOL(S)	ANGLE	X	Y	WID	HT
M1_1	0	15.875	62.2	36	36
AR_Type B	90	53.5	6.8	22	25

SIGN NUMBER	NUMBER OF POSTS	CLEARANCE Edge Of Lane	COLUMN SIZE		AVERAGE LENGTH



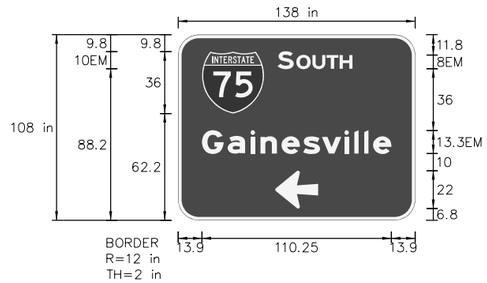
NO. OF LIGHT FIXTURES | FIXTURE SPACING | PHOTOMETRIC CURVE | WATT | VOLTAGE

COPY	N	O	R	T	H		L																	
SPACE	59.875	70.8	80.2	88.4	96		43.7																	
COPY	L	a	k	e		C	i	t	y		L													
SPACE	15.875	29	42.3	53.1	63.75	77.1	92.125	96.7	103.9		100.25													
COPY																								
SPACE																								
COPY																								
SPACE																								
COPY																								
SPACE																								
COPY																								
SPACE																								

SIGN NAME	GS-6	QTY	1	SIGN NUMBER	STATION(S)
PANEL		BORDER			533+00
WIDTH	11'-6"	WIDTH	2"		
HEIGHT	9'-0"	RADII	12"		
LEGEND	White	COLOR	White		
COLOR	Green				

SYMBOL(S)	ANGLE	X	Y	WID	HT
M1_1	0	13.9	62.2	36	36
AR_Type B	90	56.5	6.8	22	25

SIGN NUMBER	NUMBER OF POSTS	CLEARANCE Edge Of Lane	COLUMN SIZE		AVERAGE LENGTH



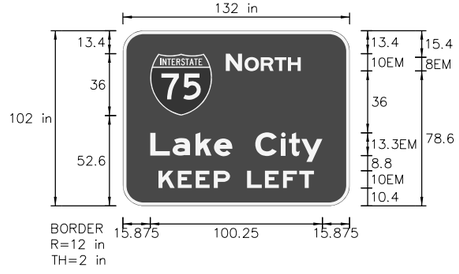
NO. OF LIGHT FIXTURES | FIXTURE SPACING | PHOTOMETRIC CURVE | WATT | VOLTAGE

COPY	S	O	U	T	H		L																	
SPACE	57.9	68.8	78.2	86.4	94		43.625																	
COPY	G	a	i	n	e	s	v	i	l	l	e		L											
SPACE	13.9	28.8	42.1	47.875	60.1	72.8	83.7	96.8	102.5	108.3	113.5		110.25											
COPY																								
SPACE																								
COPY																								
SPACE																								
COPY																								
SPACE																								
COPY																								
SPACE																								

SIGN NAME	GS-4	QTY	1	SIGN NUMBER	STATION(S)
PANEL		BORDER			524+80
WIDTH	11'-0"	WIDTH	2"		
HEIGHT	8'-6"	RADII	12"		
LEGEND	White	COLOR	White		
COLOR	Green				

SYMBOL(S)	ANGLE	X	Y	WID	HT
M1_1	0	15.875	52.6	36	36

SIGN NUMBER	NUMBER OF POSTS	CLEARANCE Edge Of Lane	COLUMN SIZE		AVERAGE LENGTH



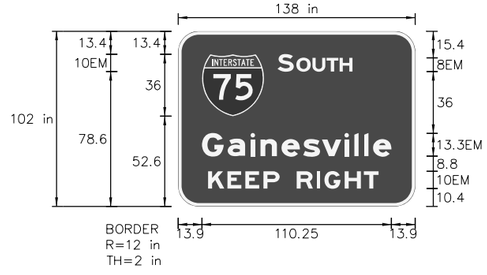
NO. OF LIGHT FIXTURES | FIXTURE SPACING | PHOTOMETRIC CURVE | WATT | VOLTAGE

COPY	N	O	R	T	H		L																	
SPACE	59.875	70.8	80.2	88.4	96		43.7																	
COPY	L	a	k	e		C	i	t	y		L													
SPACE	15.875	29	42.3	53.1	63.75	77.1	92.125	96.7	103.9		100.25													
COPY	K	E	E	P		L	E	F	T		L													
SPACE	20.7	32	42.4	52.9	62.3	72.3	82.7	93.2	102.7		90.6													
COPY																								
SPACE																								
COPY																								
SPACE																								
COPY																								
SPACE																								

SIGN NAME	GS-3	QTY	1	SIGN NUMBER	STATION(S)
PANEL		BORDER			521+80
WIDTH	11'-6"	WIDTH	2"		
HEIGHT	8'-6"	RADII	12"		
LEGEND	White	COLOR	White		
COLOR	Green				

SYMBOL(S)	ANGLE	X	Y	WID	HT
M1_1	0	13.9	52.6	36	36

SIGN NUMBER	NUMBER OF POSTS	CLEARANCE Edge Of Lane	COLUMN SIZE		AVERAGE LENGTH



NO. OF LIGHT FIXTURES | FIXTURE SPACING | PHOTOMETRIC CURVE | WATT | VOLTAGE

COPY	S	O	U	T	H		L																	
SPACE	57.9	68.8	78.2	86.4	94		43.625																	
COPY	G	a	i	n	e	s	v	i	l	l	e		L											
SPACE	13.9	28.8	42.1	47.875	60.1	72.8	83.7	96.8	102.5	108.3	113.5		110.25											
COPY	K	E	E	P		R	I	G	H	T		L												
SPACE	17.4	28.6	39.1	49.6	59	69	80.8	85.1	97	108.1		99.3												
COPY																								
SPACE																								
COPY																								
SPACE																								
COPY																								
SPACE																								

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

BRYON S. WUCZYNSKI, P.E.
LICENSE NUMBER: 64090
OSIRIS 9 CONSULTING, LLC
13241 BARTRAM PARK BLVD STE 1109
JACKSONVILLE, FL 32258

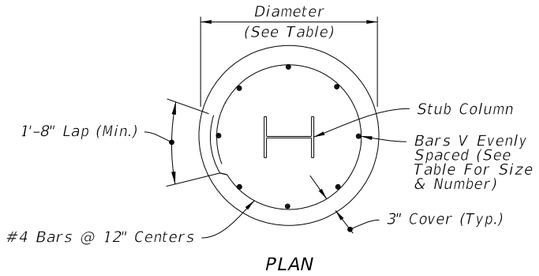
COLUMBIA CO BOCC

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 25	COLUMBIA	445725-5-54-02

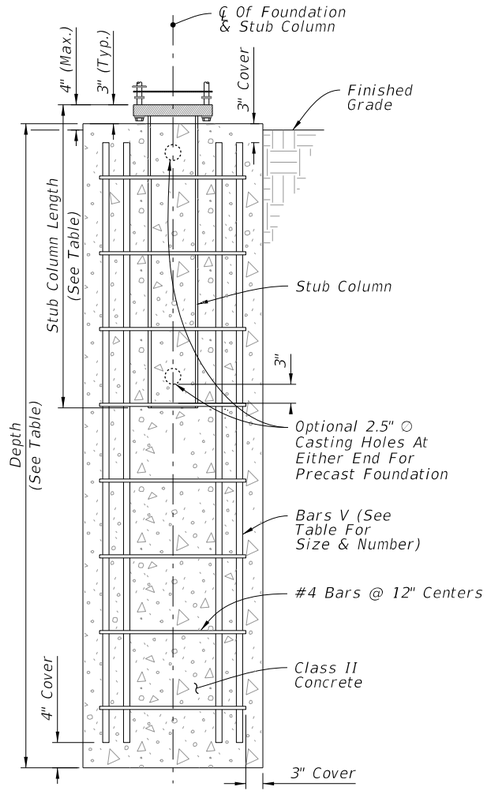
GUIDE SIGN WORKSHEET

SHEET NO. S-18

THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.



PLAN



ELEVATION

FOUNDATION

NOTES:

Work this sheet with FDOT Standard Plans 700-020.

FOUNDATION DATA (TWO-POST SIGN FOUNDATION)

SIGN #	STEEL POST & STUB SECTION	DIA.	DEPTH	STUB LENGTH	REINF. BARS
GS1	w6x12	2'-0"	7'-0"	3'-0"	10-#6
GS2	w8x18	2'-4"	7'-0"	4'-0"	8-#8
GS3	w8x18	2'-4"	7'-6"	4'-0"	8-#8
GS4	w8x18	2'-4"	7'-6"	4'-0"	8-#8
GS5	w10x33	2'-4"	10'-6"	4'-0"	8-#8
GS6	w8x18	2'-4"	8'-0"	4'-0"	8-#8
GS7	w6x12	2'-0"	7'-6"	3'-0"	10-#6
GS8	w6x12	2'-0"	7'-0"	3'-0"	10-#6
GS9	w8x18	2'-4"	8'-0"	4'-0"	8-#8
GS10	w10x33	2'-4"	10'-6"	4'-0"	8-#8
GS11	w6x12	2'-0"	7'-6"	3'-0"	10-#6
GS12	w8x24	2'-4"	8'06"	4'-0"	8-#8

FOUNDATION DATA (THREE-POST SIGN FOUNDATION)

SIGN #	STEEL POST & STUB SECTION	DIA.	DEPTH	STUB LENGTH	REINF. BARS
GS1	w6x12	2'-0"	6'-6"	3'-0"	10-#6
GS2	w6x12	2'-0"	6'-6"	3'-0"	10-#6
GS3	w6x12	2'-0"	7'-0"	3'-0"	10-#6
GS4	w6x12	2'-0"	7'-0"	3'-0"	10-#6
GS5	w8x24	2'-4"	9'-0"	4'-0"	8-#8
GS6	w6x12	2'-0"	7'-6"	3'-0"	10-#6
GS7	w6x12	2'-0"	6'-6"	3'-0"	10-#6
GS8	w6x12	2'-0"	6'-6"	3'-0"	10-#6
GS9	w6x12	2'-0"	7'-6"	3'-0"	10-#6
GS10	w18x24	2'-4"	9'-0"	4'-0"	8-#8
GS11	w6x12	2'-0"	7'-0"	3'-0"	10-#6
GS12	w8x18	2'-4"	7'-6"	4'-0"	8-#8

MULTI COLUMN SIGN COLUMN SIZES

SIGN	BASELINE/CENTERLINE	STATION	SIDE	AVERAGE LENGTH (FT)	COLUMN SIZE BY MATERIAL			
					STEEL W-BEAM		ALUMINUM I-BEAM	
					2 POST	3 POST	2 POST	3 POST
GS-1	℄ SURVEY US 41	506+00	LT	8.3'	W 6 X 12	-	I 8 X 6.18	-
GS-2	℄ CONST. ACCESS ROAD	102+92	LT	7.9'	W 8 X 18	W 6 X 12	I 8 X 6.18	-
GS-3	℄ SURVEY US 41	521+80	RT	7.7'	W 8 X 18	W 6 X 12	I 9 X 8.36	I 8 X 6.18
GS-4	℄ SURVEY US 41	524+80	RT	8.2'	W 8 X 18	W 6 X 12	I 9 X 8.36	I 8 X 6.18
GS-5	℄ SURVEY US 41	527+80	RT	9.3'	W 10 X 33	-	I 12 X 14.3	-
GS-6	℄ SURVEY US 41	533+00	LT	9.3'	W 8 X 18	W 6 X 12	I 9 X 8.36	-
GS-7	℄ SURVEY US 41	534+20	RT	8.6'	W 6 X 12	-	I 8 X 6.18	-
GS-8	℄ SURVEY US 41	538+15	LT	8.0'	W 6 X 12	-	I 8 X 6.18	-
GS-9	℄ SURVEY US 41	539+40	RT	10.5'	W 8 X 18	W 6 X 12	I 9 X 8.36	-
GS-10	℄ SURVEY US 41	544+20	LT	9.0'	W 10 X 33	-	I 12 X 14.3	I 10 X 10.3
GS-11	℄ SURVEY US 41	547+40	LT	8.6'	W 6 X 12	-	I 9 X 8.36	I 8 X 6.18
GS-12	℄ CONST. RAMP D	66+80	RT	8.9'	W 8 X 24	W 8 X 18	I 10 X 10.3	I 9 X 8.36

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

GARRETT J. MASIULIS, P.E.
LICENSE NUMBER: 82266
ARCADIS
1200 RIVERPLACE BLVD., SUITE 425
JACKSONVILLE, FL 32207

COLUMBIA CO BOCC

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 25	COLUMBIA	445725-5-54-02

MULTI-COLUMN SIGN STRUCTURE DETAILS

SHEET NO. S-19

Exhibit "C"

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CONTRACT PLANS COMPONENTS

ROADWAY
SIGNING AND PAVEMENT MARKING
SIGNALIZATION
INTELLIGENT TRANSPORTATION SYSTEMS
LIGHTING

INDEX OF SIGNALIZATION PLANS

SHEET NO.	SHEET DESCRIPTION
T-1	KEY SHEET
T-2	SIGNATURE SHEET
T-3	GENERAL NOTES
T-4 – T-7	SIGNALIZATON PLAN
T-8 – T-9	STRAIN POLE TABULATION
T-10	STRAIN POLE SCHEDULE
T-11 – T-12	GUIDE SIGN WORKSHEET
T-13	MOUNTING DETAILS
T-14	CABINET DETAILS
T-15 – T-17	REPORT OF SIGNALIZATION BORINGS

CONTRACT PLANS

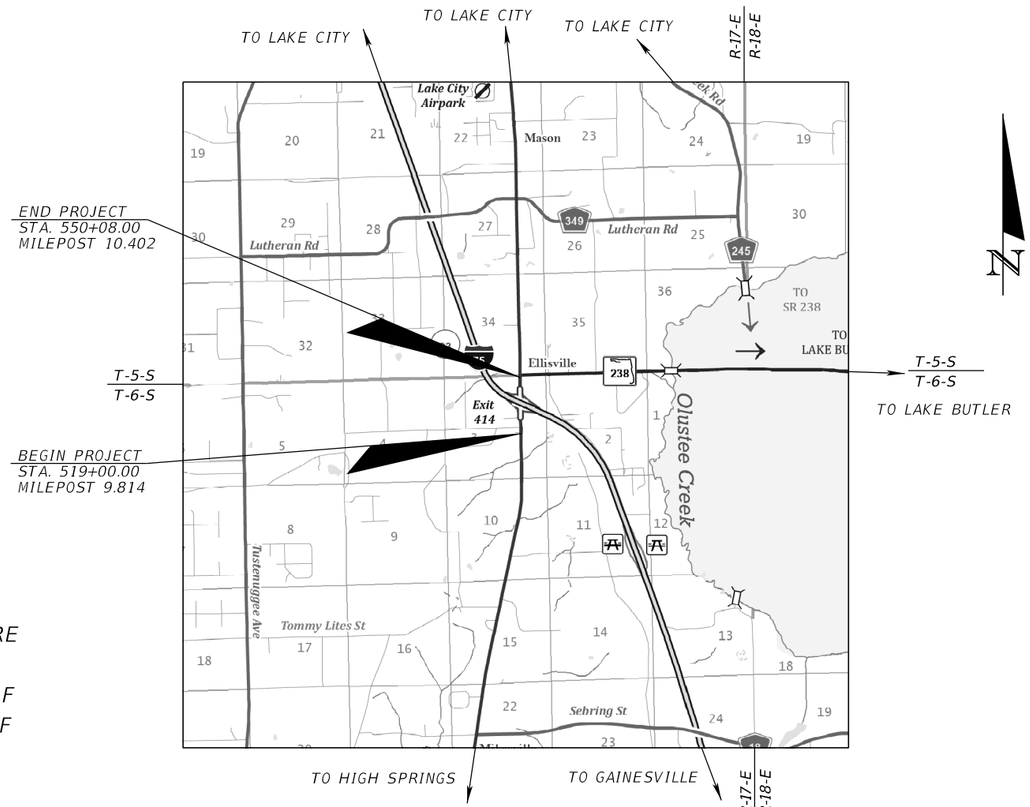
I-75 AT SR 25 (US 41)

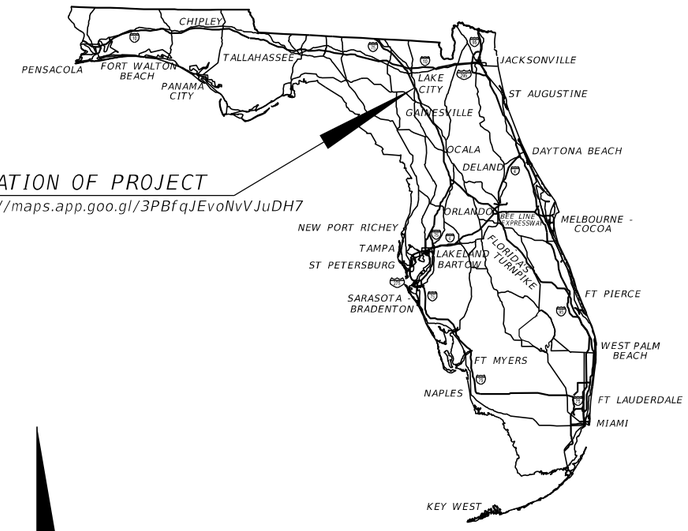
WIDENING AND RESURFACING

FINANCIAL PROJECT ID 445725-5-54-02

COLUMBIA COUNTY, FLORIDA

SIGNALIZATION PLANS





LOCATION OF PROJECT
https://maps.app.goo.gl/3PBfqJEvoNvVJuDH7

ANY STRUCTURES PLANS CONTAINED HEREIN ARE EXEMPT FROM DISCLOSURE PURSUANT TO s.119.071(3)(b), FLA. STAT. AS THE RECIPIENT OF THESE RECORDS. PLEASE REFER REQUESTER OF RECORDS TO FLORIDA DEPARTMENT OF TRANSPORTATION.

GOVERNING STANDARD PLANS:

Florida Department of Transportation, FY2025-26 Standard Plans for Road and Bridge Construction and applicable Interim Revisions (IRs).

Standard Plans for Road Construction and associated IRs are available at the following website: http://www.fdot.gov/design/standardplans

APPLICABLE IRs: NONE

GOVERNING STANDARD SPECIFICATIONS:

Florida Department of Transportation, FY2025-26 Standard Specifications for Road and Bridge Construction at the following website: http://www.fdot.gov/programmanagement/Implemented/SpecBooks

SIGNALIZAITON PLANS ENGINEER OF RECORD:

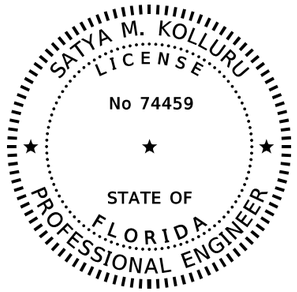
SATYA M. KOLLURU, P.E., PTOE, IMSA II
P.E. LICENSE NUMBER 74459
OSIRIS 9 CONSULTING, LLC
13241 BARTRAM PARK BLVD STE 1109
JACKSONVILLE, FL, 32258
(904) 614-8103
VENDOR NO.: F452311176

COLUMBIA COUNTY PROJECT MANAGER:

CHAD WILLIAMS, P.E.

FISCAL YEAR	SHEET NO.
26	T-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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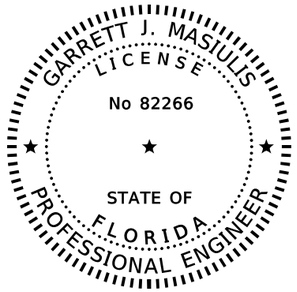
ON THE DATE ADJACENT TO THE SEAL

SIGNATURE MUST BE VERIFIED ON ANY ELECTRONIC COPIES.

OSIRIS 9 CONSULTING, LLC
13241 BARTRAM PARK BLVD, SUITE 1109
JACKSONVILLE, FL 32258
SATYA M. KOLLURU, P.E., PTOE, IMSA II

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

SHEET NO.	SHEET DESCRIPTION
T-1	KEY SHEET
T-2	SIGNATURE SHEET
T-3	GENERAL NOTES
T-4 - T-7	SIGNALIZATON PLAN
T-8 - T-9	STRAIN POLE TABULATION
T-11 - T-12	GUIDE SIGN WORKSHEET
T-13	MOUNTING DETAILS
T-14	CABINET DETAILS



THIS ITEM HAS BEEN DIGITALLY SIGNED AND SEALED BY

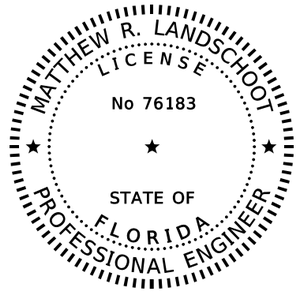
ON THE DATE ADJACENT TO THE SEAL

SIGNATURE MUST BE VERIFIED ON ANY ELECTRONIC COPIES.

ARCADIS
1200 RIVERPLACE BOULEVARD, SUITE 425
JACKSONVILLE, FL 32207
GARRETT J. MASIULIS, P.E.

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

SHEET NO.	SHEET DESCRIPTION
T-2	SIGNATURE SHEET
T-10	STRAIN POLE SCHEDULE



THIS ITEM HAS BEEN DIGITALLY SIGNED AND SEALED BY

ON THE DATE ADJACENT TO THE SEAL

SIGNATURE MUST BE VERIFIED ON ANY ELECTRONIC COPIES.

ENVIRONMENTAL AND GEOTECHNICAL SPECIALISTS, INC.
3772 KORI ROAD
JACKSONVILLE, FL 32257
MATTHEW R. LANDSCHOOT, P.E.

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

SHEET NO.	SHEET DESCRIPTION
T-2	SIGNATURE SHEET
T-15 - T-17	REPORT OF SIGNALIZATION BORINGS

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

SATYA M. KOLLURU, P.E., PTOE, IMSA II
LICENSE NUMBER: 74459
OSIRIS 9 CONSULTING, LLC
13241 BARTRAM PARK BLVD STE 1109
JACKSONVILLE, FL 32258

COLUMBIA CO BOCC

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 25	COLUMBIA	445725-5-54-02

SIGNATURE SHEET

SHEET NO. T-2

GENERAL NOTES

1. REFER TO ROADWAY PLANS FOR UTILITY CONTACT INFORMATION.

2. THE MAINTAINING AGENCY IS COLUMBIA COUNTY. CONTACT COLUMBIA COUNTY TRAFFIC OPERATIONS AT (386) 984-5940 PRIOR TO BEGINNING SIGNAL INSTALLATION TO OBSERVE.

3. WHERE FOOTER OR FOUNDATION ARE TO BE INSTALLED BY AUGERING OR DRILLING, SURVEY AND STAKE OR PAINT TO AN ACCURACY OF 0.10' PRIOR TO REQUESTING UTILITY LOCATES. STAKE OR PAINT THE CENTER OF EACH LOCATION AND CLEARLY LABEL WITH STATION, OFFSET, IDENTIFYING STRUCTURE NUMBER, AND DIAMETER OF EXCAVATION IN INCHES.

4. 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.

5. PROVIDE ONE ADDITIONAL CONDUIT RUN PULLED AND CAPPED FROM THE CONTROLLER CABINET TO EACH NEARBY PULL BOX.

6. CABINET DOORS MUST OPEN AWAY FROM THE INTERSECTION.

7. HARD ROCK AND LIMESTONE MAY BE ENCOUNTERED IN PROPOSED FOUNDATION EXCAVATIONS.

8. FOUNDATION EXCAVATIONS MAY REQUIRE THE USE OF TEMPORARY CASING AND DRILLING SLURRY TO PREVENT CAVE-IN, IN ACCORDANCE WITH FDOT STANDARD SPECIFICATION 455.

9. ALL DIRECTIONAL BORE ACTIVITIES MUST REMAIN A MINIMUM OF 10 FEET FROM ALL STRUCTURAL FOUNDATION ELEMENTS.

10. FOR FIBER OPTIC CABLE INSTALLATIONS, UTILIZE 1.25" CONDUITS, ONE ORANGE CONDUIT FOR EACH FIBER OPTIC CABLE AND ONE ORANGE OR YELLOW CONDUIT WITH A WHITE STRIPE FOR LOCATE WIRE. UTILIZE 1.25" WHITE CONDUITS FOR SPARE FIBER OPTIC CABLE CONDUITS. WHEN INSTALLED BY DIRECTIONAL BORE, UTILIZE A 6" ORANGE OUTERDUCT CASING CONDUIT TO CONTAIN ALL CONDUITS.

11. RUN SIGNAL CABLE, ELECTRICAL SERVICE WIRE, VIDEO DETECTION CABLE, AND COMMUNICATION CABLE IN THEIR OWN 2" CONDUITS. SPARE CONDUITS FOR SIGNALIZATION MUST BE 2" IN SIZE.

12. IN ADDITION TO THE STANDARD FDOT ABBREVIATIONS, THE FOLLOWING ABBREVIATIONS ARE USED:

ABBREVIATION	MEANING
SG	SIGNAL CABLE
PWR	ELECTRICAL SERVICE WIRE
DET	VIDEO DETECTION CABLE
COM	COMMUNICATION CABLE
BFO OR FOC	BURIED FIBER OPTIC CABLE OR FIBER OPTIC CABLE
SND	SOUND WIRE
CAS	OUTERDUCT CASING
LTC	LIGHTING CONDUCTORS
UPS	UNINTERRUPTIBLE POWER SUPPLY

13. FOUNDATION EXCAVATIONS MAY REQUIRE USE OF TEMPORARY CASING AND DRILLING SLURRY TO PREVENT CAVE-IN, IN ACCORDANCE WITH FDOT STANDARD SPECIFICIATION 455.

14. 15 MINUTES PRIOR TO INITIATING MOT FOR A LANE CLOSURE, CONTACT THE D2 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 COMPLETE AND LANE(S) ARE REOPENED, CONTACT THEM AGAIN WITHIN 30 MINUTES TO ADVISE THAT THE LANE CLOSURE HAS BEEN REMOVED.

15. WHERE AUGERING OR DRILLING, EXCAVATE THE FIRST FOUR FEET BY NON-MECHANICAL AND NON-DESTRUCTIVE MEANS.

16. DO NOT DRILL HOLES IN THE TOP OF THE SIGNAL CONTROLLER CABINET TO INSTALL THE EXTERNAL ANTENNA FOR THE VIDEO VEHICLE DETECTION SYSTEM. UTILIZE A SIDE MOUNT ANTENNA BRACKET INSTALLED ON THE BACKSIDE OF THE CABINET, FLUSH WITH THE TOP OF THE CABINET.

PAY ITEM NOTES:

660-4-31: VIDEO VEHICLE DETECTION SYSTEM CABINET EQUIPMENT: MIOVISION CORE DCM, INCLUDING SMARTLINK ANTENNA MOUNTED WITH TRANSPORTATION CONTROL SYSTEMS ANTENNA BRACKET (PART NUMBER MTGBKT-10, MOUNTED TO THE BACKSIDE OF THE CABINET FLUSH WITH THE TOP OF THE CABINET) AND MIOVISION-SOURCED TRENDNET TI-PG541i PoE SWITCH. FURNISHED BY COLUMBIA COUNTY.

660-4-32: VIDEO VEHICLE DETECTION ABOVE GROUND EQUIPMENT: MIOVISION SMARTVIEW 360 WITH TRANSPORTATION CONTROL SYSTEMS VERTICAL CAMERA MOUNT ASSEMBLY (PART NUMBER CAMMTG-VERTICAL) FOR STOP BAR DETECTION AND MIOVISION SMARTVIEW APPROACH MOUNTED TO STRAIN POLE WITH CANTILEVER ARM AND STAINLESS STEEL BANDING FOR ADVANCE CAMERAS. CAMERAS ARE FURNISHED BY COLUMBIA COUNTY, MOUNTING ARMS FOR ADVANCE DETECTION CAMERAS ARE FURNISHED BY CONTRACTOR.

670-5-300: TRAFFIC CONTROLLER ASSEMBLY: TRANSPORTATION CONTROL SYSTEMS TS2 TYPE 6 CABINET MODEL Z COLUMBIA WITH NEMA TS2 QFREE XN-1 CONTROLLER. FURNISHED BY COLUMBIA COUNTY.

682-1-153: STATIONARY CCTV CAMERA: FIXED ORIENTATION RAMP DETECTION BARREL CAMERA, ANY MODEL ON THE FDOT APPROVED PRODUCTS LIST, INCLUDES MOUNTING HARDWARE. TO BE UTILIZED BY FDOT AT THE REGIONAL TRAFFIC MANAGEMENT CENTER. FURNISHED BY CONTRACTOR.

682-1-300: CCTV CAMERA: HARDENDED NETWORKS ADVANCED IMAGER SERIES MODEL AIS-8300. FURNISHED BY COLUMBIA COUNTY.

685-1-30: UNINTERRUPTIBLE POWER SUPPLY: ECONOLOITE ZINCBLUE2 XRT 3600Wh BATTERY SYSTEM IN THE TRAFFIC SIGNAL CONTROLLER CABINET. FURNISHED BY COLUMBIA COUNTY.

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

SATYA M. KOLLURU, P.E., PTOE, IMSA II
LICENSE NUMBER: 74459
OSIRIS 9 CONSULTING, LLC
13241 BARTRAM PARK BLVD STE 1109
JACKSONVILLE, FL 32258

COLUMBIA CO BOCC

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 25	COLUMBIA	445725-5-54-02

GENERAL NOTES

SHEET NO.
T-3

NOTES:
1. SEE ITS PLANS FOR FIBER OPTIC CABLE INTERCONNECTION AND ASSOCIATED PAY ITEMS.
2. INCLUDE PROGRAMMABLE LOUVERS ON SIGNAL HEADS NUMBERED WITH AN ASTERISK (*). LOUVERS MUST HAVE A VIEWING ANGLE OF 15°.
3. PROVIDE FLEXIBLE RETROREFLECTIVE BACKPLATES FOR ALL SIGNAL HEADS.

0 10 40
Feet

OTHER PAY ITEMS:

632-7-1	1 PI
634-4-153	1 PI

DET | 630-2-11 | 1 RUN @ 88 LF

STOP BAR DETECTION CAMERA

660-4-32	1 EA

STRAIN POLE 2
STA. 531+20.06, 102.95' LT.

SG, DET, SPARE

630-2-11	3 RUNS @ 5 LF
635-2-11	3 EA
641-2-18	1 EA

ADVANCE DETECTION CAMERA

660-4-32	1 EA

635-2-11 | 2 EA

630-2-12 | 7 RUNS @ 94 LF | DET, FOC, LOC, CAS, 2X 2" SPARE, 1X 1.25" SPARE

RAMP DETECTION BARREL CAMERA

682-1-153	1 EA

STRAIN POLE 3
STA. 532+75.67, 110.39' LT.

DET, SPARE

630-2-11	2 RUNS @ 9 LF
635-2-11	2 EA
641-2-18	1 EA

PROPOSED CONTROLLER CABINET
2X SG, 2X DET, 2X COM, 2X PWR

630-2-11	8 RUNS @ 4 LF
635-2-11	4 EA
639-2-1	4 LF
660-4-31	1 EA
670-5-300	1 AS
685-1-30	1 EA

ELECTRICAL SERVICE DISCONNECT ON P-IIA CONC. POLE

639-3-11	1 EA
641-2-12	1 EA

SG, DET | 630-2-11 | 2 RUNS @ 29 LF

DET, COM, PWR, 2X SPARE

630-2-12	5 RUNS @ 174 LF
639-2-1	174 LF

630-2-11 | 2 RUNS @ 50 LF | DET, COM

630-2-12 | 3 RUNS @ 173 LF | DET, 2X SPARE

ADVANCE DETECTION CAMERA

660-4-32	1 EA

STRAIN POLE 4
STA. 532+77.61, 53.47' RT.

DET, SPARE

630-2-11	2 RUNS @ 5 LF
635-2-11	2 EA
641-2-18	1 EA

CCTV CAMERA

682-1-300	1 EA

H-FRAME FOR CLAY ELECTRIC POWER SERVICE POINT USING P-IIA CONC. POLES

PWR

630-2-11	1 RUN @ 2 LF
635-2-11	3 EA
639-1-122	1 AS
639-2-1	2 LF
639-3-11	1 EA
641-2-12	2 EA

POWER SERVICE POLE (CLAY ELECTRIC)

PWR

630-2-11	1 RUN OF 2.5" @ 4 LF
639-2-1	4 LF

STRAIN POLE 1
STA. 531+08.80, 63.70' RT.

COM, SPARE

630-2-11	2 RUNS @ 6 LF
635-2-11	2 EA
641-2-18	1 EA

R/W LINE
LA R/W LINE
E CONST. RAMP D
RAMP D
RAMP A
E CONST. SMF 1
E SURVEY US 41
SR 25 (US 41/US 441)
SPEED LIMIT: 45 MPH
S 43°54'10" E
S 59°26'59" E
S 84°34'24" E
N 00°55'49" W
4" (TYP.)
200'
130'
530
531
532
533
534
535
NORTH
ONLY
VDZ-6A3
VDZ-6A2
VDZ-6B3
VDZ-6B2
VDZ-6A1
VDZ-6B1
VDZ-2B1
VDZ-2B2
VDZ-2B3
VDZ-2A1
VDZ-2A2
VDZ-2A3
VDZ-5

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REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

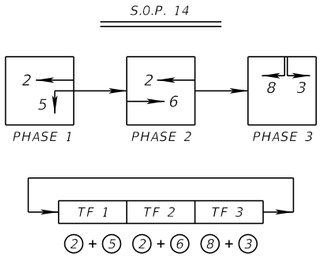
SATYA M. KOLLURU, P.E., PTOE, IMSA II
LICENSE NUMBER: 74459
OSIRIS 9 CONSULTING, LLC
13241 BARTRAM PARK BLVD STE 1109
JACKSONVILLE, FL 32258

COLUMBIA CO BOCC

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 25	COLUMBIA	445725-5-54-02

SIGNALIZATION PLAN (1)

SHEET NO. T-4



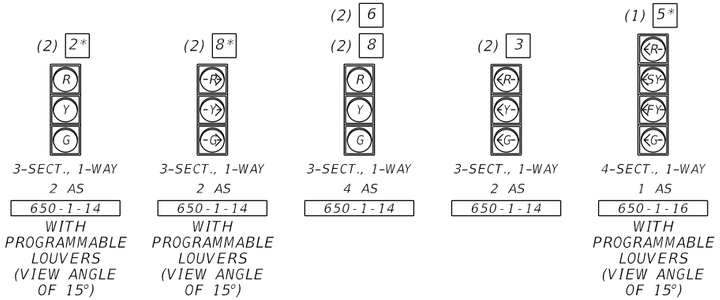
CONTROLLER TIMINGS									
TIMING FUNCTION									
MOVEMENT NUMBER		1	2	3	4	5	6	7	8
TIMING FUNCTION	MININUM GREEN	5.0	15.0		5.0		15.0	5.0	
	EXTENSION	3.0	3.0		3.0		3.0	3.0	
	MAXIMUM GREEN 1	15.2	27.2		28.0		49.2	28.0	
	MAXIMUM GREEN 2								
	YELLOW CLEARANCE	4.8	4.8		4.0		4.8	4.0	
	ALL RED	2.0	2.0		2.0		2.0	2.0	
	PEDESTRIAN WALK								
	PED. CLEARANCE								
	RECALL		MIN				MIN		

CONTROLLER OPERATION NOTES:

1. THE MAJOR STREET IS SR 25 (US 41/US 441) AND THE MINOR STREET IS I-75 RAMPS A & D.

VEHICLE DETECTION ZONES			
DETECTION ZONE	SIZE	TYPE	DELAY TIME (SEC)
VDZ-2 (A1, B1)	6'X30'	STOP BAR	
VDZ-2 (A2, B2, A3, B3)	6'X6'	ADVANCE	
VDZ-3	6'X30'	STOP BAR	
VDZ-5	6'X30'	STOP BAR	
VDZ-6 (A1, B1)	6'X30'	STOP BAR	
VDZ-6 (A2, B2, A3, B3)	6'X6'	ADVANCE	
VDZ-8 (A, B)	6'X30'	STOP BAR	5

DELAY TIME IS INITIAL AND MAY REQUIRE FIELD ADJUSTING AS DIRECTED BY THE ENGINEER.

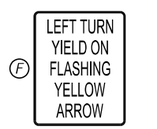


UTILIZE 6" FLEXIBLE RETROREFLECTIVE BACKPLATES FOR ALL SIGNAL HEADS

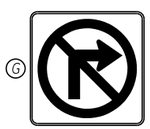
CANTILEVER ARM MOUNTED
24"X66"
700-3-201 | 2 EA

CANTILEVER ARM MOUNTED
24"X96"
700-3-202 | 2 EA

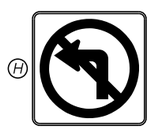
CANTILEVER ARM MOUNTED
24"X96"
700-3-202 | 1 EA



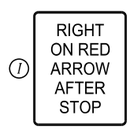
FTP-85-13
30"X36"
700-3-201 | 1 EA



R3-1
36"X36"
700-3-201 | 1 EA



R3-2
36"X36"
700-3-201 | 1 EA



R10-17A
30"X36"
700-3-201 | 2 EA

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

SATYA M. KOLLURU, P.E., PTOE, IMSA II
LICENSE NUMBER: 74459
OSIRIS 9 CONSULTING, LLC
13241 BARTRAM PARK BLVD STE 1109
JACKSONVILLE, FL 32258

COLUMBIA CO BOCC

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 25	COLUMBIA	445725-5-54-02

SIGNALIZATION PLAN (2)

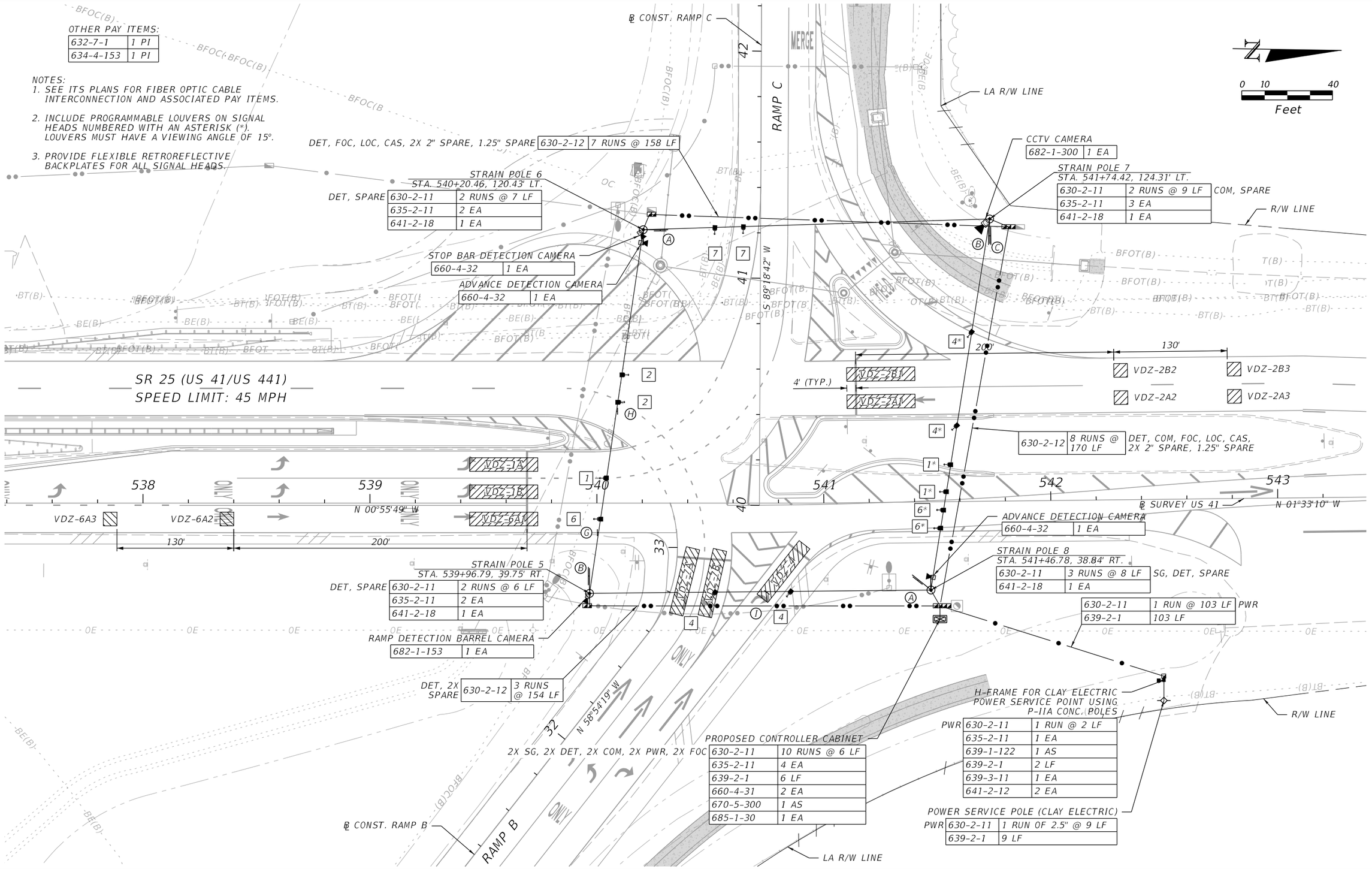
SHEET NO. T-5

THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.

OTHER PAY ITEMS:

632-7-1	1 PI
634-4-153	1 PI

NOTES:
1. SEE ITS PLANS FOR FIBER OPTIC CABLE INTERCONNECTION AND ASSOCIATED PAY ITEMS.
2. INCLUDE PROGRAMMABLE LOUVERS ON SIGNAL HEADS NUMBERED WITH AN ASTERISK (*). LOUVERS MUST HAVE A VIEWING ANGLE OF 15°.
3. PROVIDE FLEXIBLE RETROREFLECTIVE BACKPLATES FOR ALL SIGNAL HEADS.



REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

SATYA M. KOLLURU, P.E., PTOE, IMSA II
LICENSE NUMBER: 74459
OSIRIS 9 CONSULTING, LLC
13241 BARTRAM PARK BLVD STE 1109
JACKSONVILLE, FL 32258

COLUMBIA CO BOCC		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 25	COLUMBIA	445725-5-54-02

SIGNALIZATION PLAN (3)

SHEET NO. T-6

THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.

T:\WorkSets\Columbia County\44572515201\Signalization\PLANSG01.dgn : SIGNALS PLAN 2 [SHEET]
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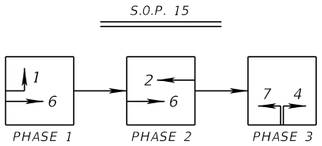
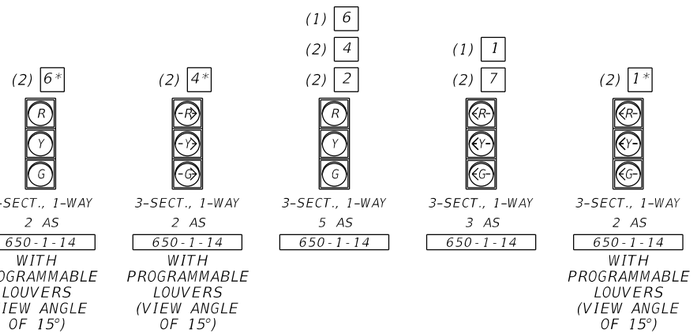




UTILIZE 6" FLEXIBLE RETROREFLECTIVE BACKPLATES FOR ALL SIGNAL HEADS

CONTROLLER TIMINGS									
TIMING FUNCTION									
MOVEMENT NUMBER		1	2	3	4	5	6	7	8
TIMING FUNCTION	MININUM GREEN	5.0	15.0		5.0		15.0	5.0	
	EXTENSION	3.0	3.0		3.0		3.0	3.0	
	MAXIMUM GREEN 1	20.2	28.2		22.0		55.2	22.0	
	MAXIMUM GREEN 2								
	YELLOW CLEARANCE	4.8	4.8		4.0		4.8	4.0	
	ALL RED	2.0	2.0		2.0		2.0	2.0	
	PEDESTRIAN WALK								
	PED. CLEARANCE								
	RECALL		MIN				MIN		

CONTROLLER OPERATION NOTES:

1. THE MAJOR STREET IS SR 25 (US 41/US 441) AND THE MINOR STREET IS I-75 RAMPS B & C.

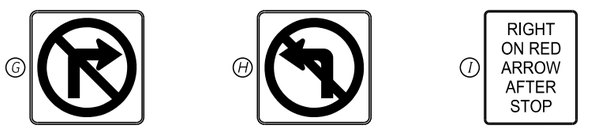
VEHICLE DETECTION ZONES			
DETECTION ZONE	SIZE	TYPE	DELAY TIME (SEC)
VDZ-1 (A, B)	6'X30'	STOP BAR	
VDZ-2 (A1, B1)	6'X30'	STOP BAR	
VDZ-2 (A2, B2, A3, B3)	6'X6'	ADVANCE	
VDZ-4	6'X30'	STOP BAR	5
VDZ-6A1	6'X30'	STOP BAR	
VDZ-6 (A2, A3)	6'X6'	ADVANCE	
VDZ-7 (A, B)	6'X30'	STOP BAR	

DELAY TIME IS INITIAL AND MAY REQUIRE FIELD ADJUSTING AS DIRECTED BY THE ENGINEER.

A — CANTILEVER ARM MOUNTED 24"X66" | 700-3-201 | 2 EA

B — CANTILEVER ARM MOUNTED 24"X96" | 700-3-202 | 2 EA

C — CANTILEVER ARM MOUNTED 24"X96" | 700-3-202 | 1 EA



G — R3-1 36"X36" | 700-3-201 | 1 EA

H — R3-2 36"X36" | 700-3-201 | 1 EA

I — R10-17A 30"X36" | 700-3-201 | 1 EA

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

SATYA M. KOLLURU, P.E., PTOE, IMSA II
LICENSE NUMBER: 74459
OSIRIS 9 CONSULTING, LLC
13241 BARTRAM PARK BLVD STE 1109
JACKSONVILLE, FL 32258

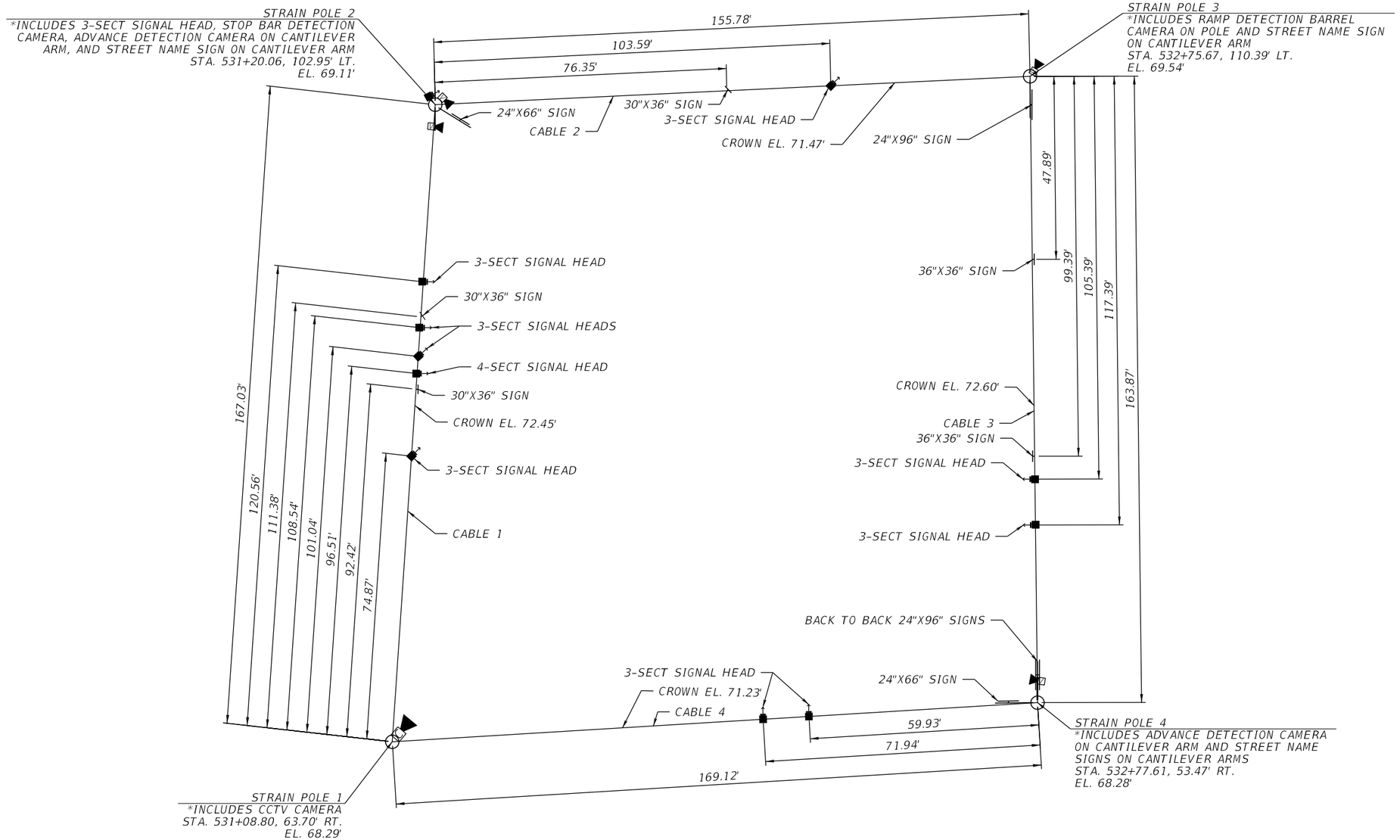
COLUMBIA CO BOCC

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 25	COLUMBIA	445725-5-54-02

SIGNALIZATION PLAN (4)

SHEET NO. T-7

THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.



SR 25 (US 41)
AT RAMP A & RAMP D

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

SATYA M. KOLLURU, P.E., PTOE, IMSA II
LICENSE NUMBER: 74459
OSIRIS 9 CONSULTING, LLC
13241 BARTRAM PARK BLVD STE 1109
JACKSONVILLE, FL 32258

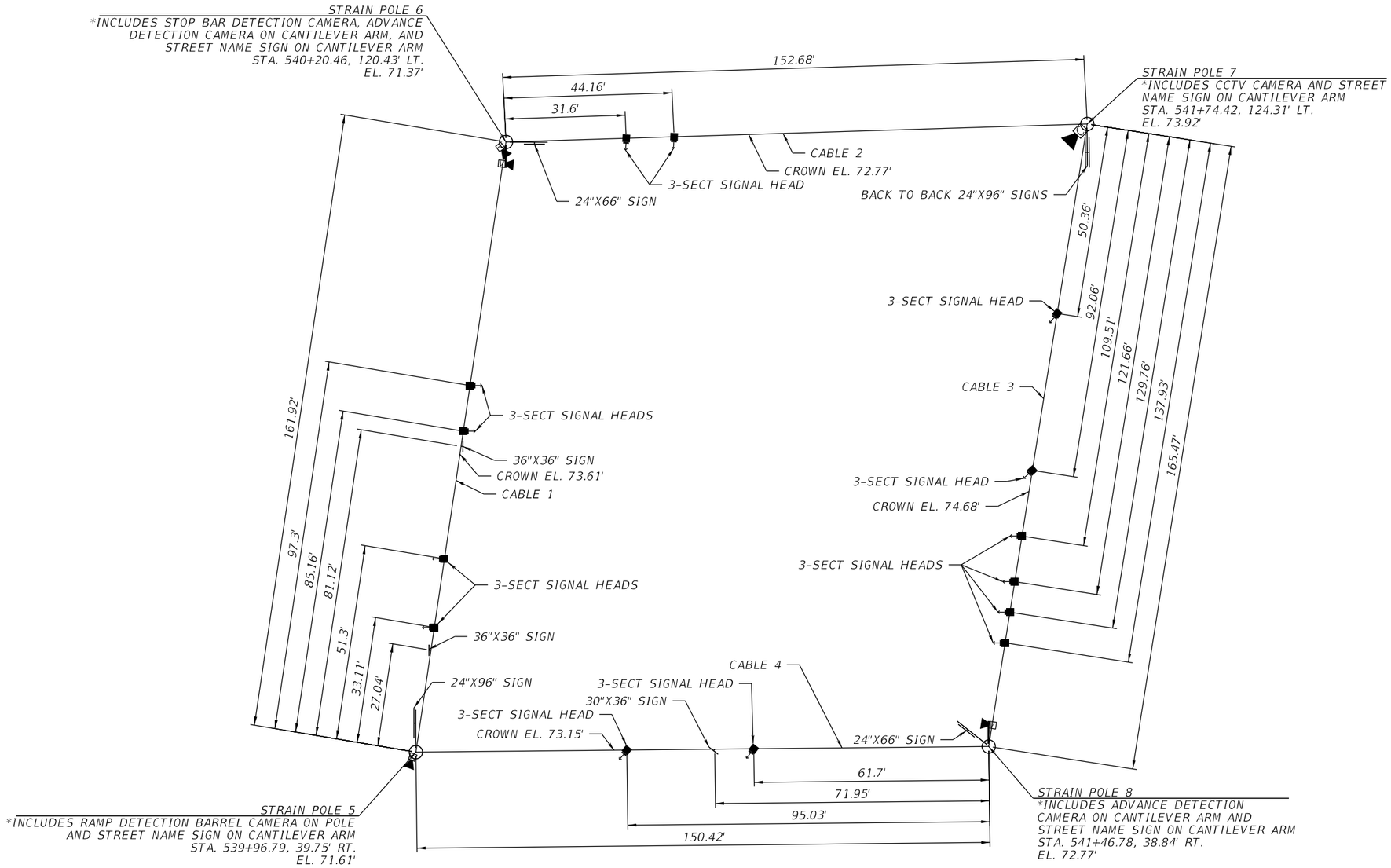
COLUMBIA CO BOCC

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 25	COLUMBIA	445725-5-54-02

STRAIN POLE TABULATION (1)

SHEET NO. T-8

THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.



SR 25 (US 41)
AT RAMP B & RAMP C

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

SATYA M. KOLLURU, P.E., PTOE, IMSA II
LICENSE NUMBER: 74459
OSIRIS 9 CONSULTING, LLC
13241 BARTRAM PARK BLVD STE 1109
JACKSONVILLE, FL 32258

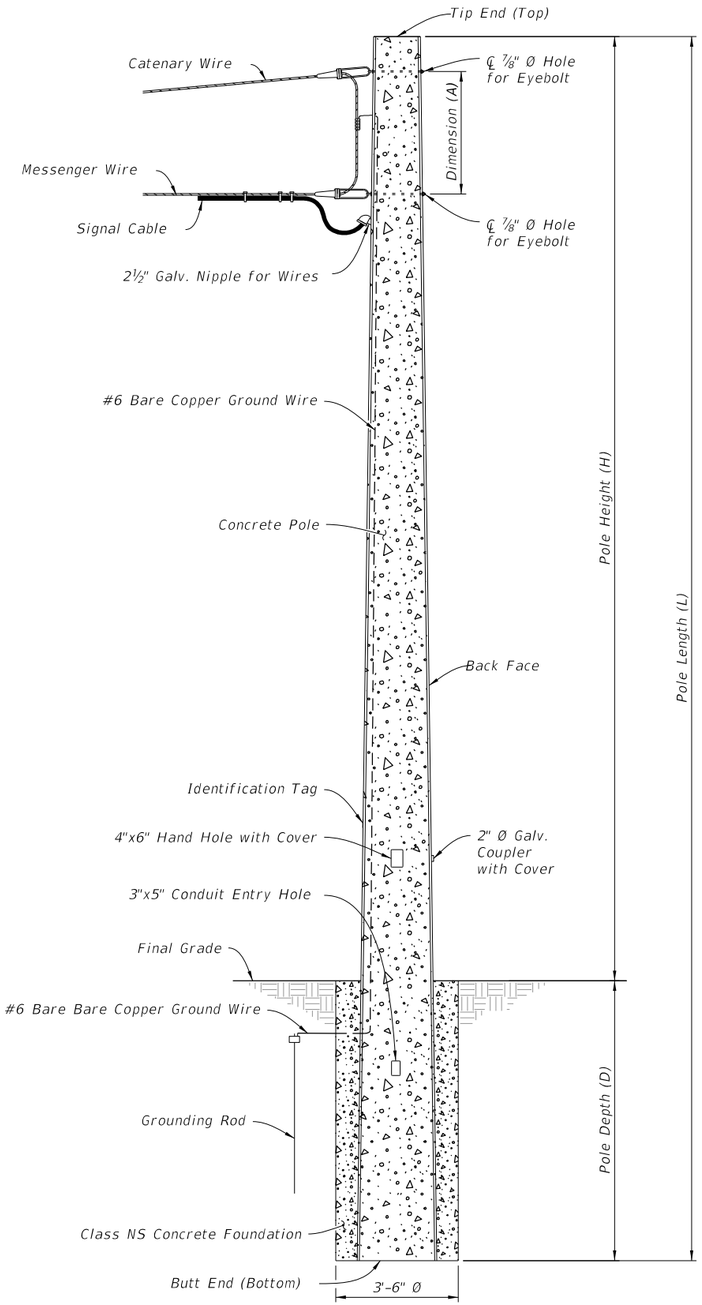
COLUMBIA CO BOCC

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 25	COLUMBIA	445725-5-54-02

STRAIN POLE TABULATION (2)

SHEET NO. T-9

THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.



CONCRETE STRAIN POLE DIMENSIONS P-VIII

STRAIN POLE SCHEDULE

ID NO.	SHEET NO.	POLE LOCATION		FINAL GRADE ELEVATION	CROWN* ELEVATION	POLE TYPE	POLE LENGTH (L)	POLE HEIGHT (H)	CONCRETE POLE DEPTH (D)	DIM. "A"
		STATION	OFFSET							
P1	T-4	513+08.80	63.70' RT	68.29	72.60	P-VIII	58.0	38.39	19.61	9.32
P2	T-4	531+20.06	102.95' LT	69.11	72.60	P-VIII	58.0	37.57	20.43	9.32
P3	T-4	532+75.67	110.39' LT	69.54	72.60	P-VIII	57.0	37.14	19.86	9.32
P4	T-4	532+77.61	53.47' RT	68.28	72.60	P-VIII	58.0	38.40	19.60	9.32
P5	T-6	539+96.79	39.75' RT	71.61	74.68	P-VIII	57.0	36.57	20.43	9.25
P6	T-6	540+20.46	120.43' LT	71.37	74.68	P-VIII	57.0	36.81	20.19	9.25
P7	T-6	541+74.42	124.31' LT	73.92	74.68	P-VIII	54.0	34.26	19.74	9.25
P8	T-6	541+46.78	38.84' RT	72.77	74.68	P-VIII	55.0	35.41	19.59	9.25

*CROWN ELEVATIONS SHOWN ARE THE CONTROLLING (HIGHEST) FOR EACH LOCATION.

LOCATION	SPAN LENGTHS				STRAIN POLE ANGLE			
	1	2	3	4	A1	A2	A3	A4
POLE 1-4	167.03	155.78	163.87	169.12	96.60	87.94	92.79	82.67
POLE 5-8	161.92	152.68	165.47	150.42	100.18	79.23	99.56	81.03

THE DIMENSIONS GIVEN ABOVE ARE PLAN VIEW AND DO NOT ACCOUNT FOR ADDITIONAL LENGTHS DUE TO VERTICAL DROP ALONG EACH CABLE.

SCHEDULE NOTES:

For Concrete Strain Poles, work with Index 641-010.

Messenger and Catenary cbale are 7/16 Diameter.
Design Wind Speed = 120mph.

All Signal Heads use flexible back plates.

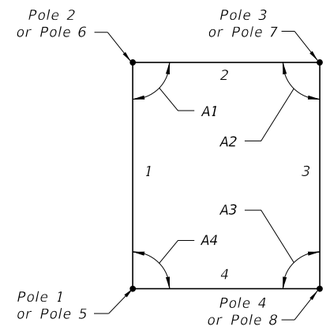
GEOTECH NOTES:

1. Design based on Borings taken January 2025
   Sealed by EGS, Inc.

Pole 1-8:
Unit Weight= 48 pcf
Friction Angle = 28°

NOTES:

Foundation excavations may require use of temporary casing and drilling slurry to prevent cave-off, in accordance with FDOT Standard Specification 455.



BOX-SPAN SCHEMATIC

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REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

GARRETT J. MASIULIS, P.E.
LICENSE NUMBER: 82266
ARCADIS
1200 RIVERPLACE BLVD., SUITE 425
JACKSONVILLE, FL 32207

COLUMBIA CO BOCC

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 25	COLUMBIA	445725-5-54-02

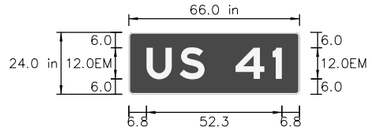
STRAIN POLE SCHEDULE

SHEET NO. T-10

SIGN NAME	A		QTY	4	SIGN NUMBER	STATION(S)
PANEL		BORDER				none
WIDTH	5'-6"	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

	U	S	4	1		L
COPY						
SPACE	6.8	19.6	41.3	55.6		52.3
COPY						
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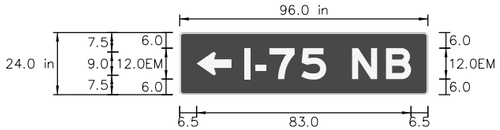
SIGN NAME	B		QTY	2	SIGN NUMBER	STATION(S)
PANEL		BORDER				none
WIDTH	8'-0"	WIDTH	0.5"			
HEIGHT	2'-0"	RADII	1.5"			
LEGEND	White	COLOR	White			
COLOR	Green					

SYMBOL(S)	ANGLE	X	Y	WID	HT
AR_Type D	90.0	6.5	7.5	9.0	13.5

SIGN NUMBER	NUMBER OF POSTS	CLEARANCE Edge Of Lane	COLUMN SIZE		AVERAGE LENGTH



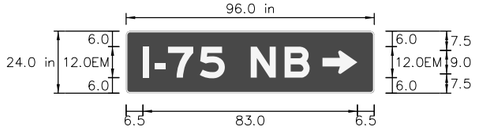
NO. OF LIGHT FIXTURES | FIXTURE SPACING | PHOTOMETRIC CURVE | WATT | VOLTAGE

	I	–	7	5	N	B		L
COPY								
SPACE	25.0	29.5	34.7	47.0	66.7	79.8		64.5
COPY								
SPACE								
COPY								
SPACE								
COPY								
SPACE								
COPY								
SPACE								
COPY								
SPACE								

SIGN NAME	C		QTY	2	SIGN NUMBER	STATION(S)
PANEL		BORDER				none
WIDTH	8'-0"	WIDTH	0.5"			
HEIGHT	2'-0"	RADII	1.5"			
LEGEND	White	COLOR	White			
COLOR	Green					

SYMBOL(S)	ANGLE	X	Y	WID	HT
AR_Type D	270.0	76.0	7.5	9.0	13.5

SIGN NUMBER	NUMBER OF POSTS	CLEARANCE Edge Of Lane	COLUMN SIZE		AVERAGE LENGTH



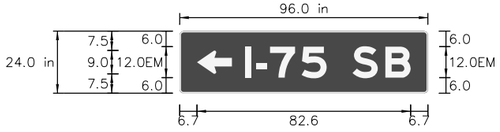
NO. OF LIGHT FIXTURES | FIXTURE SPACING | PHOTOMETRIC CURVE | WATT | VOLTAGE

	I	–	7	5	N	B		L
COPY								
SPACE	6.5	11.0	16.2	28.5	48.2	61.3		64.5
COPY								
SPACE								
COPY								
SPACE								
COPY								
SPACE								
COPY								
SPACE								
COPY								
SPACE								

SIGN NAME	D		QTY	2	SIGN NUMBER	STATION(S)
PANEL		BORDER				none
WIDTH	8'-0"	WIDTH	0.5"			
HEIGHT	2'-0"	RADII	1.5"			
LEGEND	White	COLOR	White			
COLOR	Green					

SYMBOL(S)	ANGLE	X	Y	WID	HT
AR_Type D	90.0	6.7	7.5	9.0	13.5

SIGN NUMBER	NUMBER OF POSTS	CLEARANCE Edge Of Lane	COLUMN SIZE		AVERAGE LENGTH



NO. OF LIGHT FIXTURES | FIXTURE SPACING | PHOTOMETRIC CURVE | WATT | VOLTAGE

	I	–	7	5	S	B		L
COPY								
SPACE	25.2	29.6	34.9	47.2	66.9	79.6		64.1
COPY								
SPACE								
COPY								
SPACE								
COPY								
SPACE								
COPY								
SPACE								
COPY								
SPACE								

REVISIONS

DATE	DESCRIPTION	DATE	DESCRIPTION

SATYA M. KOLLURU, P.E., PTOE, IMSA II
LICENSE NUMBER: 74459
OSIRIS 9 CONSULTING, LLC
13241 BARTRAM PARK BLVD STE 1109
JACKSONVILLE, FL 32258

COLUMBIA CO BOCC

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 25	COLUMBIA	445725-5-54-02

GUIDE SIGN WORKSHEET (1)

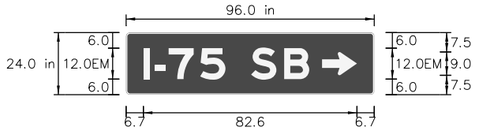
SHEET NO. T-11

THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.

SIGN NAME	E			QTY	2	SIGN NUMBER	STATION(S)
PANEL		BORDER					none
WIDTH	8'-0"	WIDTH	0.5"				
HEIGHT	2'-0"	RADII	1.5"				
LEGEND	White	COLOR	White				
COLOR	Green						

SYMBOL(S)	ANGLE	X	Y	WID	HT
AR_Type D	270.0	75.8	7.5	9.0	13.5						

SIGN NUMBER	NUMBER OF POSTS	CLEARANCE Edge Of Lane	COLUMN SIZE		AVERAGE LENGTH



NO. OF LIGHT FIXTURES | FIXTURE SPACING | PHOTOMETRIC CURVE | WATT | VOLTAGE

COPY	I	–	7	5	S	B		L														
SPACE	6.7	11.1	16.4	28.7	48.4	61.1		64.1														
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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																						
SPACE																						
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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																						
SPACE																						
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COPY																						
SPACE																						
COPY																						
SPACE																						
COPY																						
SPACE																						

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

SATYA M. KOLLURU, P.E., PTOE, IMSA II
LICENSE NUMBER: 74459
OSIRIS 9 CONSULTING, LLC
13241 BARTRAM PARK BLVD STE 1109
JACKSONVILLE, FL 32258

COLUMBIA CO BOCC

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 25	COLUMBIA	445725-5-54-02

GUIDE SIGN WORKSHEET (2)

SHEET NO. T-12

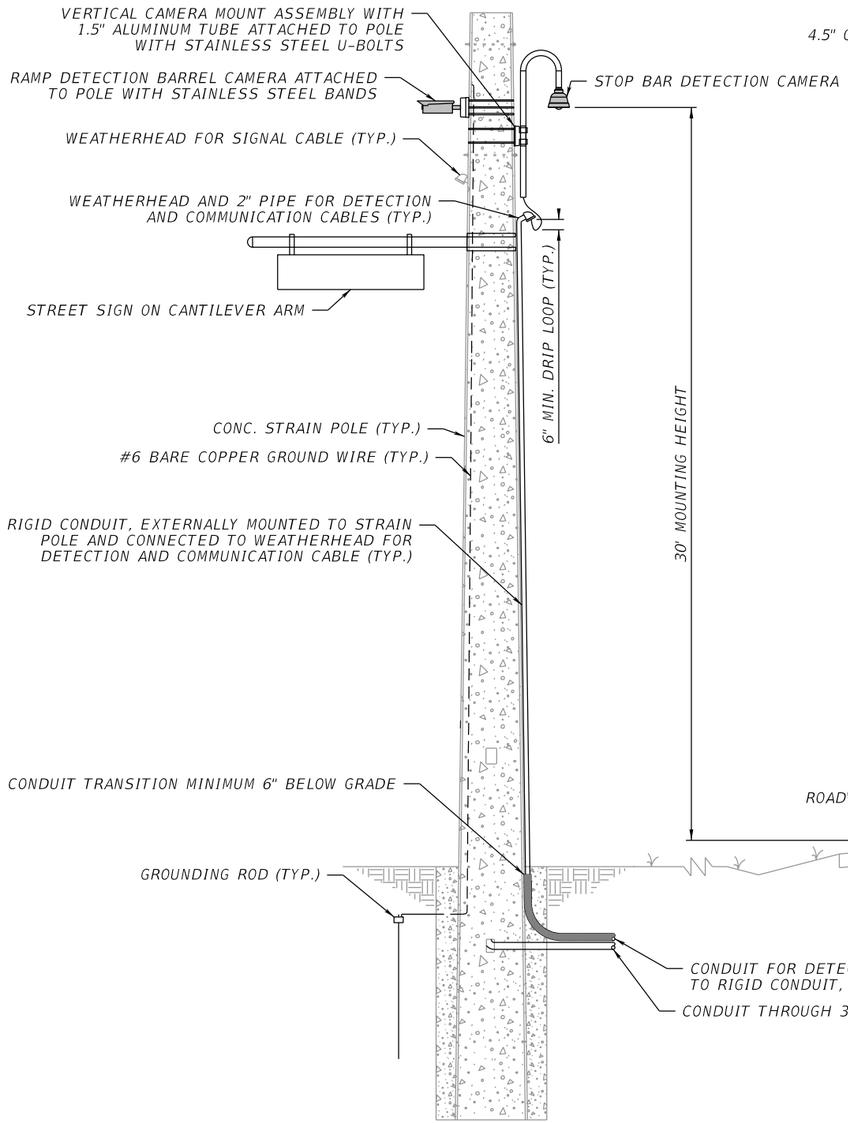
THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.

T:\WorkSets\Columbia County\44572515201\Signalization\GSWKSG01.dgn : GUIDE SIGN WORKSHEET 2 [SHEET]
kkubelka 9/8/2025 4:13:08 PM

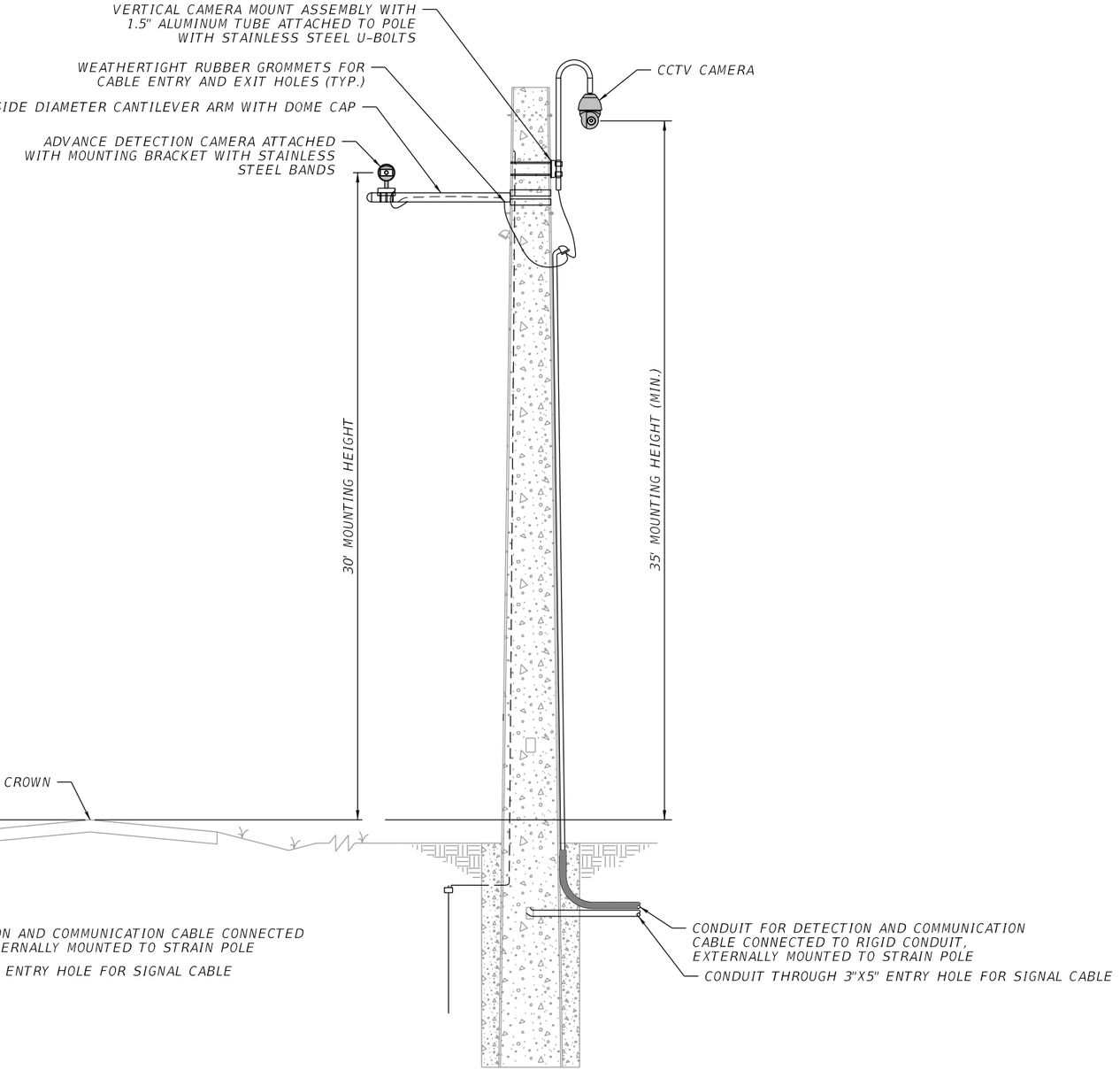
NOTES:
1. MOUNTING DETAILS ARE INTENDED TO SHOW MOUNTING HEIGHTS AND OTHER GENERAL REQUIREMENTS FOR CAMERAS AND SIGNS MOUNTED TO STRAIN POLES.

2. ORIENT DEVICES AND SIGNS AS SHOWN IN THE SIGNALIZATION PLAN SHEETS.

3. GROUND WIRES AND GROUNDING RODS FOR THE STRAIN POLES ARE SHOWN FOR REFERENCE ONLY. ALL DEVICES MUST BE PROPERLY GROUNDED.



STOP BAR DETECTION CAMERA ON STRAIN POLE,
STREET NAME SIGN ON STRAIN POLE
NOT TO SCALE



ADVANCE OR QUEUE DETECTION CAMERA ON STRAIN POLE,
CCTV CAMERA ON STRAIN POLE
NOT TO SCALE

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

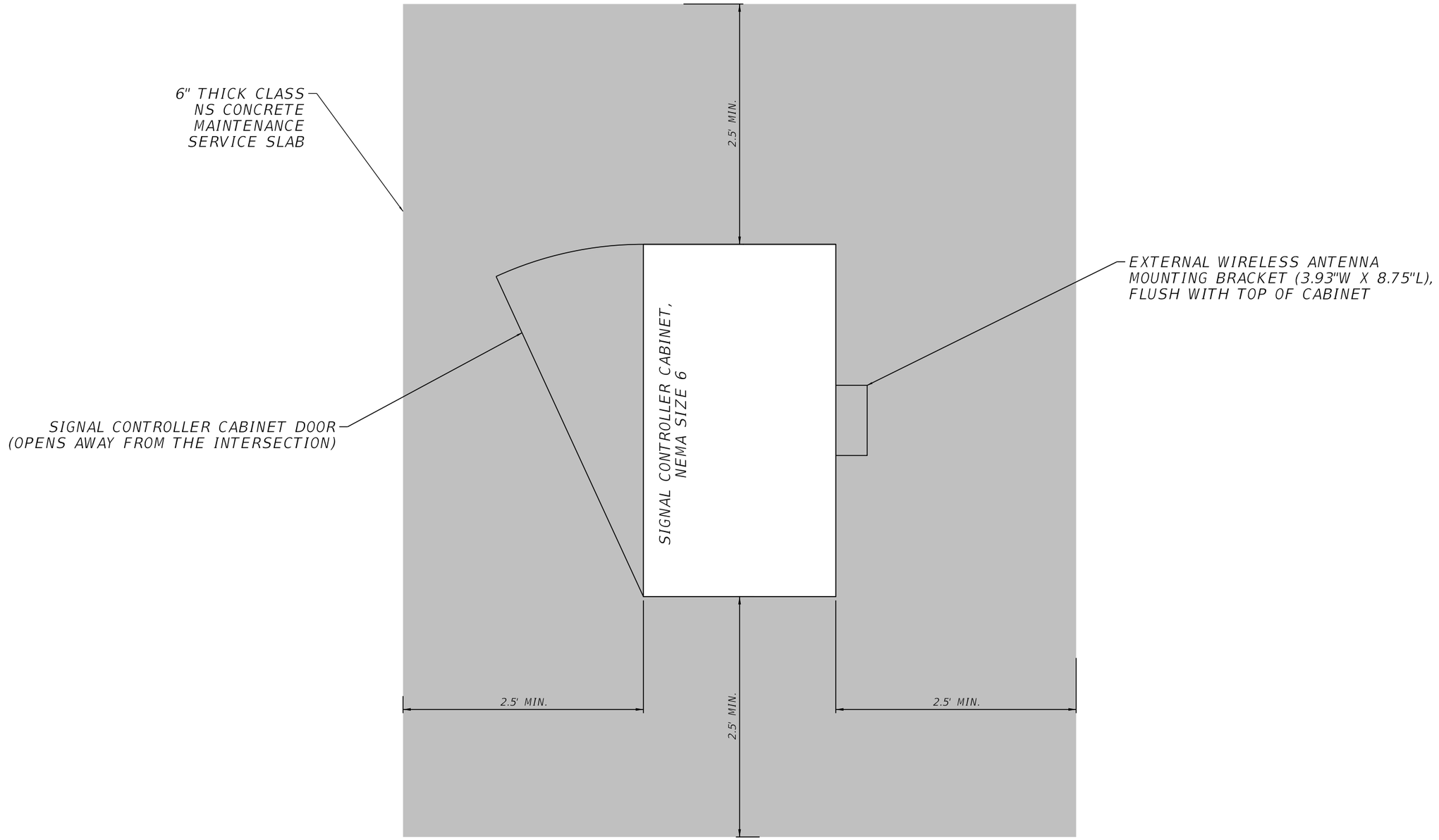
SATYA M. KOLLURU, P.E., PTOE, IMSA II
LICENSE NUMBER: 74459
OSIRIS 9 CONSULTING, LLC
13241 BARTRAM PARK BLVD STE 1109
JACKSONVILLE, FL 32258

COLUMBIA CO BOCC

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 25	COLUMBIA	445725-5-54-02

MOUNTING DETAILS

SHEET NO. T-13



NOT TO SCALE

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

SATYA M. KOLLURU, P.E., PTOE, IMSA II
LICENSE NUMBER: 74459
OSIRIS 9 CONSULTING, LLC
13241 BARTRAM PARK BLVD STE 1109
JACKSONVILLE, FL 32258

COLUMBIA CO BOCC

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 25	COLUMBIA	445725-5-54-02

CABINET DETAILS

SHEET NO. T-14

THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.

NOTES

1. NUMBERS LEFT OF BORINGS INDICATE STANDARD PENETRATION TEST (SPT) N-VALUES OR EQUIVALENT FOR 12-INCH PENETRATION.
2. GROUNDWATER ELEVATIONS SHOWN ARE THE GROUNDWATER ELEVATIONS ENCOUNTERED. FLUCTUATIONS IN THE ELEVATION OF GROUNDWATER SHOULD BE EXPECTED.
3. SOIL DESCRIPTIONS, TEST DATA, AND STANDARD PENETRATION VALUES SHOWN ARE FOR THE SOIL BORING ONLY AND MAY NOT APPLY TO ANY OTHER LOCATIONS EXCEPT AT THE LOCATION OF THE SOIL BORING. EXTRAPOLATION OF THE SOIL BORING DATA TO OTHER LOCATIONS IS THE SOLE RESPONSIBILITY OF THE PERSON PERFORMING THE EXTRAPOLATION.
4. ASTERISK INDICATES EQUIVALENT SPT N-VALUES CONVERTED FROM CONE PENETROMETER INDEX (CPI) VALUES.

AUTOMATIC HAMMER

GRANULAR MATERIALS RELATIVE DENSITY	SPT (BLOWS/12 IN.)	SILTS AND CLAYS CONSISTENCY	SPT (BLOWS/12 IN.)
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

SPLIT-SPOON: INSIDE DIAMETER: 1.375 IN
OUTSIDE DIAMETER: 2.0 IN
AVG. HAMMER DROP: 30.0 IN
HAMMER WEIGHT: 140 LBS

LEGEND

SPT SOIL BORING LOCATION

MEASURED GROUNDWATER LEVEL

LABORATORY TESTING RESULTS

WATER CONTENT	Wc=
-200 SIEVE	-200=
PLASTICITY INDEX	PI=
LIQUID LIMIT	LL=
ORGANIC CONTENT	OC%=
USCS GROUP SYMBOL	(SM)

FINE SAND (SP-SM)

SILTY FINE SAND, SILTY FINE SAND WITH ORGANICS (SM)

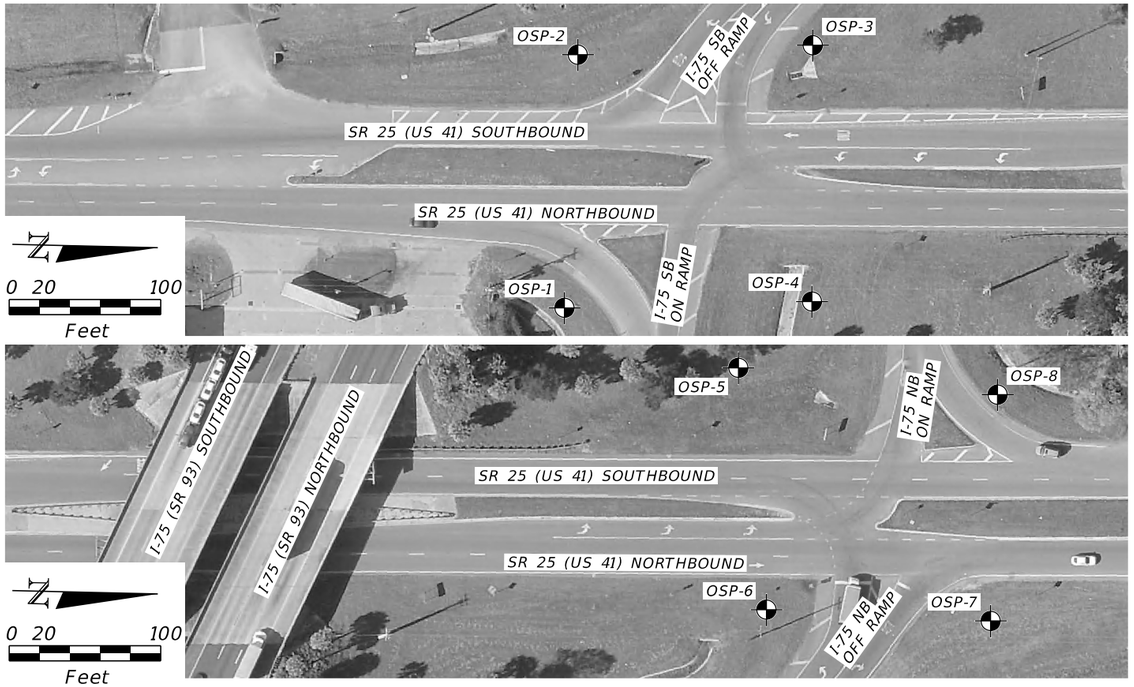
CLAYEY FINE SAND TO HIGHLY PLASTIC CLAYEY SAND (SC)

HIGHLY PLASTIC SANDY CLAY TO HIGHLY PLASTIC CLAY (CH)

HIGHLY PLASTIC SANDY SILT TO HIGHLY PLASTIC SILT WITH SAND (MH)

HIGHLY WEATHERED LIMESTONE

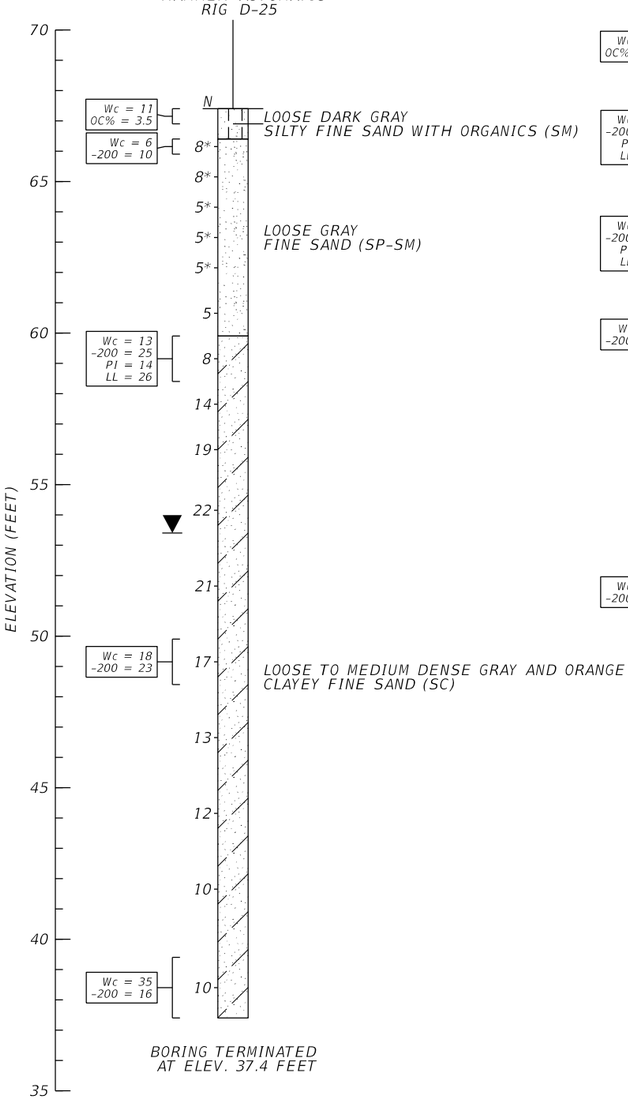
SOIL BORING LOCATION MAPS



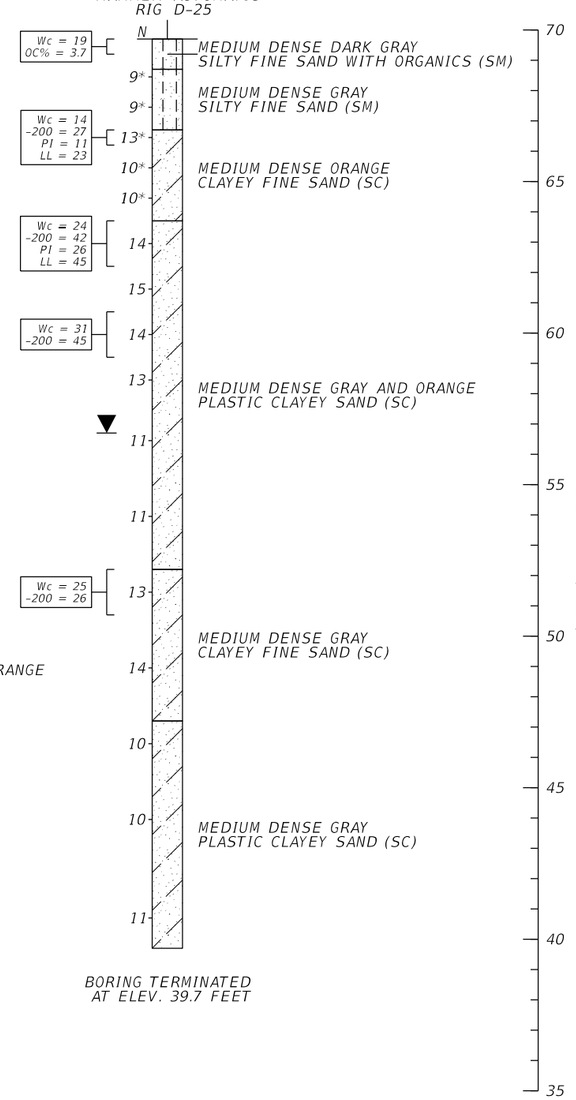
ENVIRONMENTAL CLASSIFICATION

SUBSTRUCTURE: EXTREMELY AGGRESSIVE FOR STEEL AND CONCRETE (pH=4.5).

BORE # OSP-1
REFERENCE ℄ SURVEY US 41
STATION 531+08
OFFSET 69 FEET RIGHT
ELEVATION 67.4 FEET
DATE 2/27/2025
DRILLER W. CHOMAT
HAMMER AUTOMATIC
RIG D-25



BORE # OSP-2
REFERENCE ℄ SURVEY US 41
STATION 531+16
OFFSET 98 FEET LEFT
ELEVATION 69.7 FEET
DATE 2/27/2025
DRILLER W. CHOMAT
HAMMER AUTOMATIC
RIG D-25



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REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

MATTHEW R. LANDSCHOOT, P.E.
LICENSE NUMBER: 76183
ENVIRONMENTAL AND GEOTECHNICAL SPECIALISTS, INC.
3772 KORI ROAD
JACKSONVILLE, FLORIDA 32257

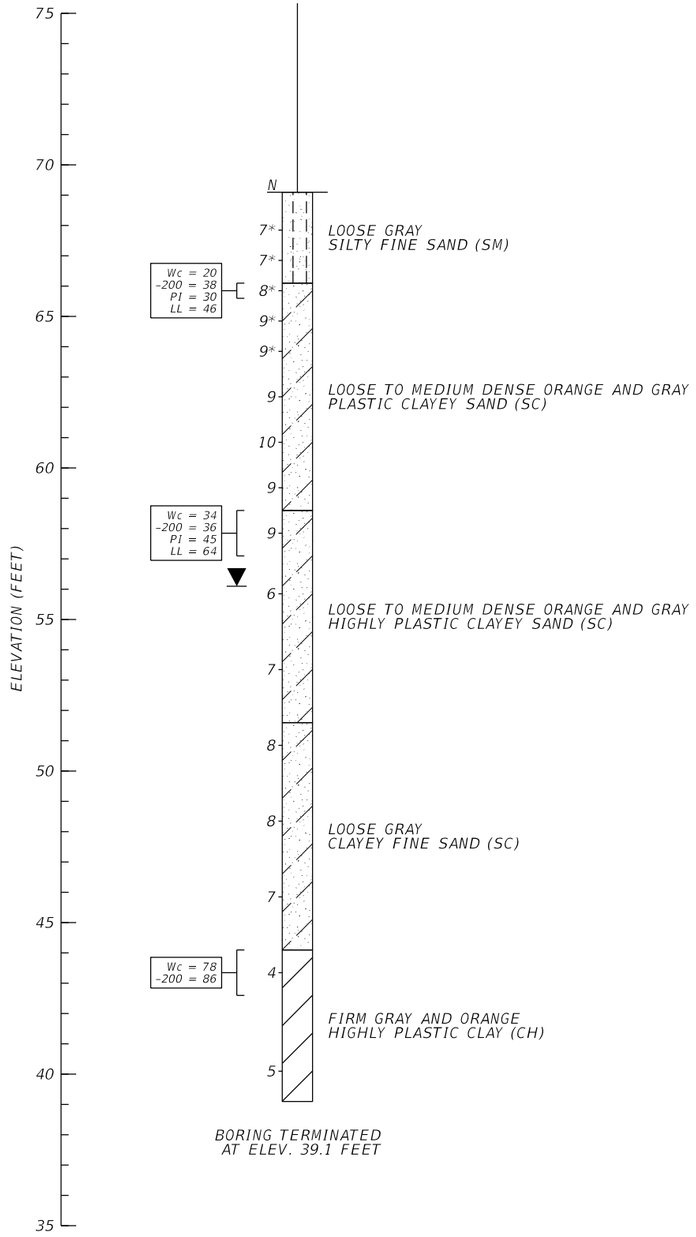
COLUMBIA CO BOCC

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 25	COLUMBIA	445725-5-54-02

REPORT OF SIGNALIZATION BORINGS

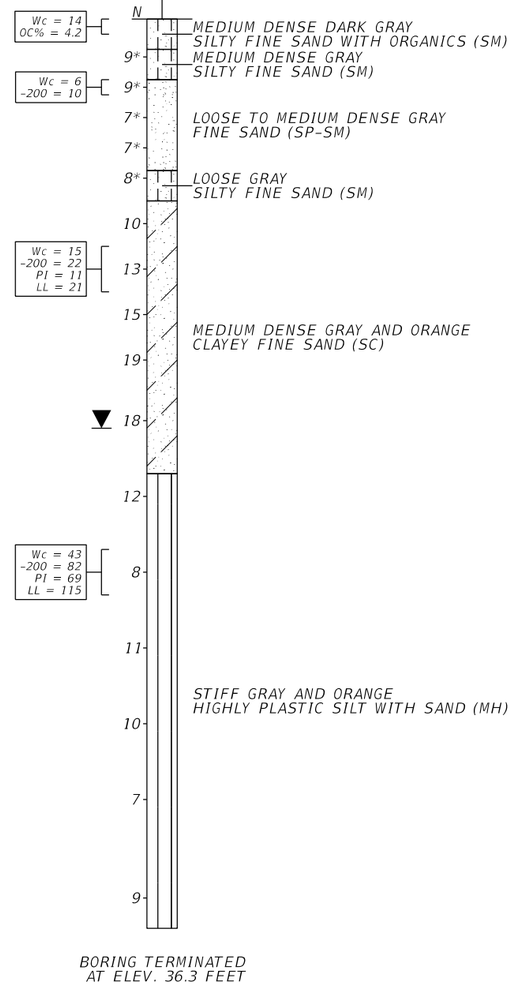
SHEET NO. T-15

BORE # OSP-3
REFERENCE @ SURVEY US 41
STATION 532+71
OFFSET 105 FEET LEFT
ELEVATION 69.1 FEET
DATE 2/27/2025
DRILLER W. CHOMAT
HAMMER AUTOMATIC
RIG D-25



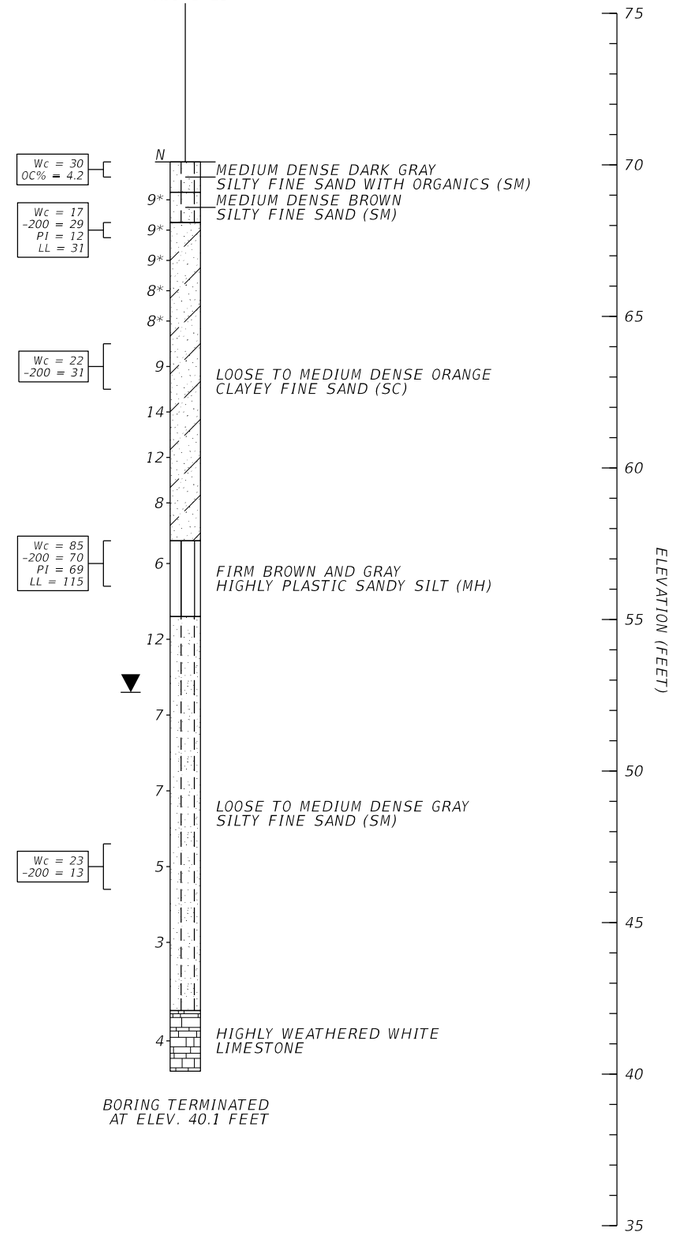
BORING TERMINATED
AT ELEV. 39.1 FEET

BORE # OSP-4
REFERENCE @ SURVEY US 41
STATION 532+72
OFFSET 64 FEET RIGHT
ELEVATION 66.3 FEET
DATE 2/27/2025
DRILLER W. CHOMAT
HAMMER AUTOMATIC
RIG D-25



BORING TERMINATED
AT ELEV. 36.3 FEET

BORE # OSP-5
REFERENCE @ SURVEY US 41
STATION 539+63
OFFSET 123 FEET LEFT
ELEVATION 70.1 FEET
DATE 2/26/2025
DRILLER W. CHOMAT
HAMMER AUTOMATIC
RIG D-25



BORING TERMINATED
AT ELEV. 40.1 FEET

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

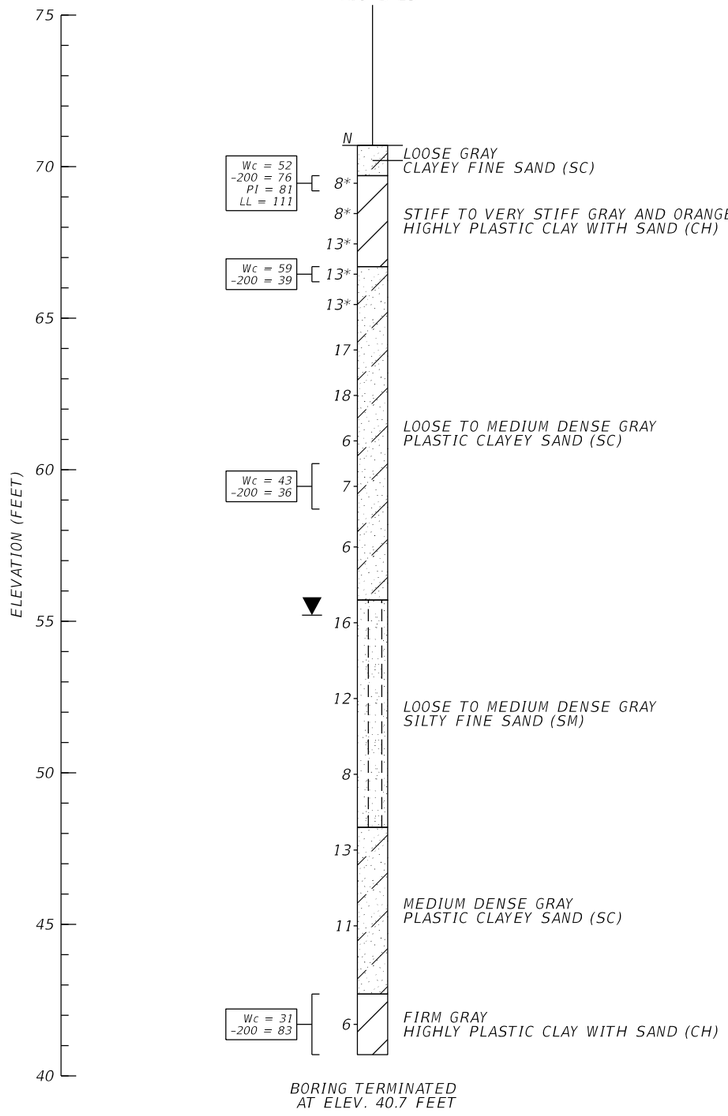
MATTHEW R. LANDSCHOOT, P.E.
LICENSE NUMBER: 76183
ENVIRONMENTAL AND GEOTECHNICAL
SPECIALISTS, INC.
3772 KORI ROAD
JACKSONVILLE, FLORIDA 32257

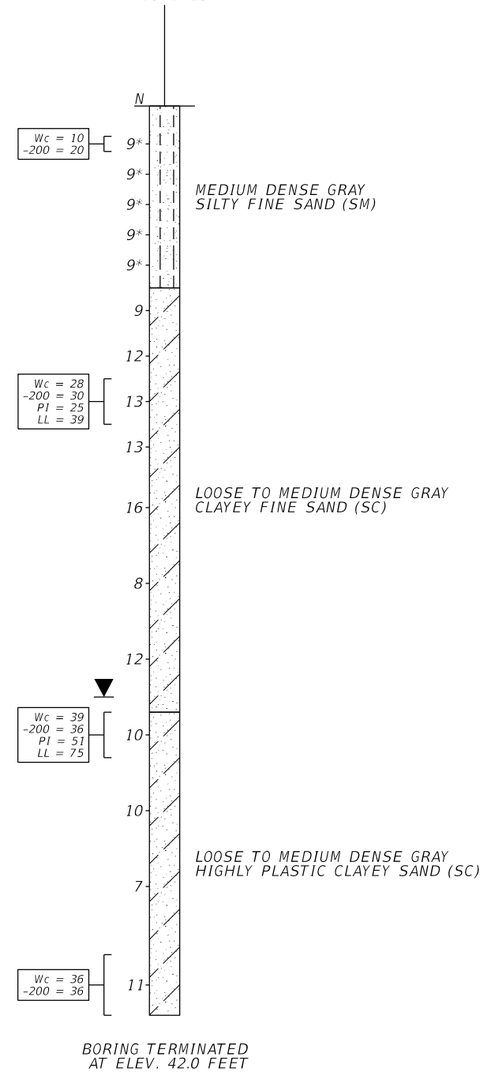
COLUMBIA CO BOCC

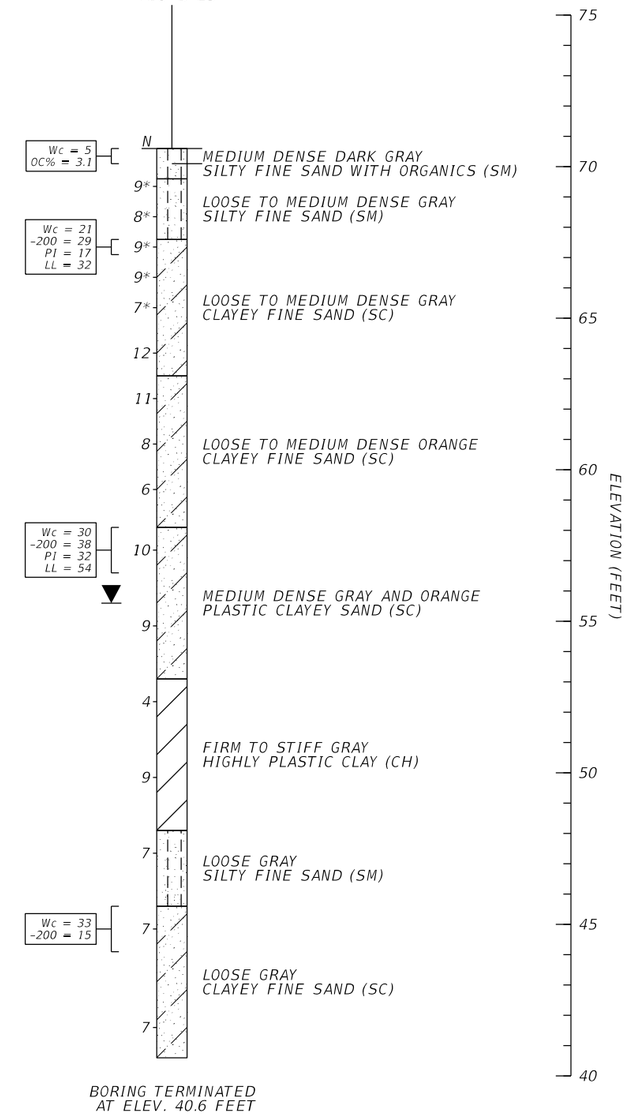
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 25	COLUMBIA	445725-5-54-02

REPORT OF SIGNALIZATION BORINGS

SHEET NO. T-16







REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

MATTHEW R. LANDSCHOOT, P.E.
LICENSE NUMBER: 76183
ENVIRONMENTAL AND GEOTECHNICAL
SPECIALISTS, INC.
3772 KORI ROAD
JACKSONVILLE, FLORIDA 32257

COLUMBIA CO BOCC

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 25	COLUMBIA	445725-5-54-02

REPORT OF SIGNALIZATION BORINGS

SHEET NO. T-17

THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.

T:\WorkSets\Columbia County\44572515201\Geotechnical\RPTBRD02.dgn : REPORTOFBORINGS - 3
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Exhibit "D"

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CONTRACT PLANS COMPONENTS

ROADWAY
SIGNING AND PAVEMENT MARKING
SIGNALIZATION
INTELLIGENT TRANSPORTATION SYSTEMS
LIGHTING

INDEX OF ITS PLANS

SHEET NO.	SHEET DESCRIPTION
IT-1	KEY SHEET
IT-2	GENERAL NOTES
IT-3 – IT-7	ITS PLAN
IT-8 – IT-10	SPLICE DIAGRAMS
IT-11	MHUB CONNECTION DETAIL
IT-12	WIRING DIAGRAM

CONTRACT PLANS

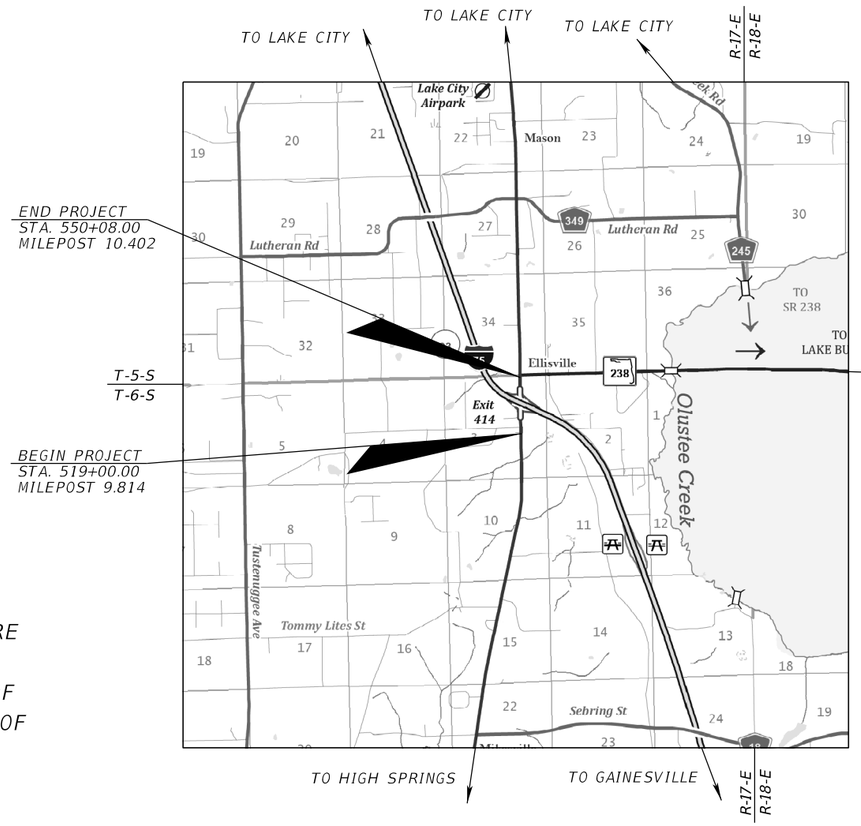
I-75 AT SR 25 (US 41)

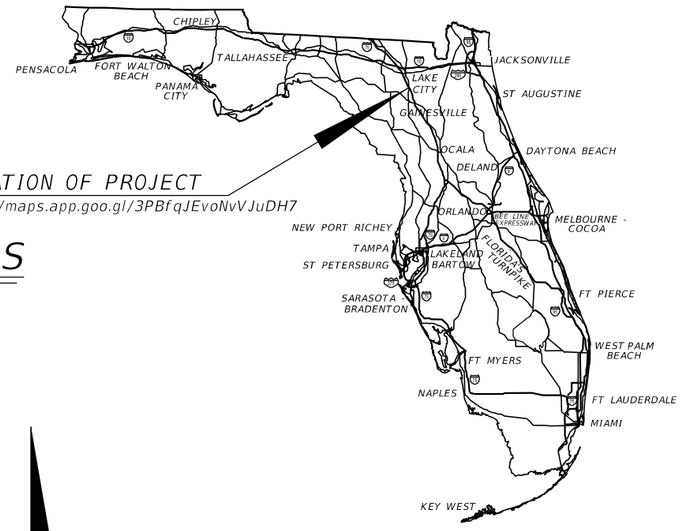
WIDENING AND RESURFACING

FINANCIAL PROJECT ID 445725-5-54-02

COLUMBIA COUNTY, FLORIDA

INTELLIGENT TRANSPORTATION SYSTEMS PLANS





LOCATION OF PROJECT
https://maps.app.goo.gl/3PBfqJEvoNvVJuDH7

N

INTELLIGENT TRANSPORTATION SYSTEMS PLANS ENGINEER OF RECORD:

SATYA M. KOLLURU, P.E., PTOE, IMSA II
P.E. LICENSE NUMBER 74459
OSIRIS 9 CONSULTING, LLC
13241 BARTRAM PARK BLVD STE 1109
JACKSONVILLE, FL, 32258
(904) 614-8103
VENDOR NO.: F452311176

SATYA M. KOLLURU
LICENSE
No 74459
STATE OF FLORIDA
PROFESSIONAL ENGINEER

THIS ITEM HAS BEEN DIGITALLY SIGNED AND SEALED BY:

ON THE DATE ADJACENT TO THE SEAL

SIGNATURE MUST BE VERIFIED ON ANY ELECTRONIC COPIES.

COLUMBIA COUNTY PROJECT MANAGER:

CHAD WILLIAMS, P.E.

ANY STRUCTURES PLANS CONTAINED HEREIN ARE EXEMPT FROM DISCLOSURE PERSUANT TO s.119.071(3)(b), FLA. STAT. AS THE RECIPIENT OF THESE RECORDS. PLEASE REFFER REQUESTER OF RECORDS TO FLORIDA DEPARTMENT OF TRANSPORTATION.

GOVERNING STANDARD PLANS:

Florida Department of Transportation, FY2025-26 Standard Plans for Road and Bridge Construction and applicable Interim Revisions (IRs).

Standard Plans for Road Construction and associated IRs are available at the following website: http://www.fdot.gov/design/standardplans

APPLICABLE IRs: NONE

GOVERNING STANDARD SPECIFICATIONS:

Florida Department of Transportation, FY2025-26 Standard Specifications for Road and Bridge Construction at the following website: http://www.fdot.gov/programmanagement/Implemented/SpecBooks

FISCAL YEAR	SHEET NO.
26	IT-1

THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.

GENERAL NOTES

1. REFER TO ROADWAY PLANS FOR UTILITY CONTACT INFORMATION.
2. THE MAINTAINING AGENCY IS COLUMBIA COUNTY. CONTACT COLUMBIA COUNTY TRAFFIC OPERATIONS AT (386) 984-5940 PRIOR TO BEGINNING SIGNAL INSTALLATION TO OBSERVE.
3. 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.
4. PROVIDE ONE ADDITIONAL CONDUIT RUN PULLED AND CAPPED FROM THE CONTROLLER TO EACH NEARBY FIBER OPTIC PULL BOX.
5. ALL DIRECTIONAL BORE ACTIVITIES MUST REMAIN A MINIMUM OF 10 FEET FROM ALL STRUCTURAL FOUNDATION ELEMENTS.
6. FOR FIBER OPTIC CABLE INSTALLATIONS, UTILIZE TWO 1.25" CONDUITS, ONE ORANGE CONDUIT FOR FIBER OPTIC CABLE AND ONE ORANGE OR YELLOW CONDUIT WITH A WHITE STRIPE FOR LOCATE WIRE. UTILIZE 1.25" WHITE CONDUITS FOR SPARE CONDUITS. WHEN INSTALLED BY DIRECTIONAL BORE, UTILIZE A 6" ORANGE OUTERDUCT CASING CONDUIT TO CONTAIN ALL CONDUITS.
7. IN ADDITION TO THE STANDARD FDOT ABBREVIATIONS, THE FOLLOWING ABBREVIATIONS ARE USED:

ABBREVIATION	MEANING
BFO OR FOC	BURIED FIBER OPTIC CABLE OR FIBER OPTIC CABLE
LOC	LOCATE WIRE
CAS	OUTERDUCT CASING
SM	SINGLE MODE
FPB	FIBER PULL BOX
FSV	FIBER SPLICE VAULT
CCTV	CLOSED CIRCUIT TELEVISION
MHUB	MASTER HUB

8. 15 MINUTES PRIOR TO INITIATING MAINTENANCE OF TRAFFIC FOR A LANE CLOSURE, CONTACT THE D2 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 COMPLETE AND LANE(S) ARE REOPENED, CONTACT THEM AGAIN WITHIN 30 MINUTES TO ADVISE THAT THE LANE CLOSURE HAS BEEN REMOVED.
9. NOTIFY MR. JOSE MORALES (FDOT DISTRICT TWO ITS MAINTENANCE), PHONE NUMBER 904-903-2013, 72 HOURS PRIOR TO REPLACING THE SPLICE VAULT AT STA 540+18, 147' LT.
10. THE 12 SM FOC SLACK COILED IN THE PULL BOX ADJACENT TO THE MICROWAVE TOWER WILL BE UTILIZED TO CONNECT TO THE EXISTING ITS HUB. FDOT DISTRICT TWO WILL PULL THE CABLE THROUGH THE EXISTING CONDUIT AND TERMINATE IT IN THE EXISTING MHUB SHELTER 75-413.8.

LEGEND

SYMBOL	DESCRIPTION
BFOC(B) - - - - - - - - -	EXIST. FIBER OPTIC CABLE CONDUIT
——— • ———	OPEN TRENCH CONDUIT
———●●———	DIRECTIONAL BORE CONDUIT
	EXIST. FIBER OPTIC PULL BOX
	PROPOSED FIBER OPTIC PULL BOX
	EXIST. FIBER OPTIC SPLICE VAULT
	PROPOSED FIBER OPTIC SPLICE VAULT
	EXIST. CONCRETE POLE
C	EXIST. CCTV CAMERA
R	EXIST. MICROWAVE VEHICLE DETECTION SYSTEM

PAY ITEM NOTES:

684-1-3: MANAGED FIELD ETHERNET SWITCH: HARDENED NETWORKS MANAGED FIELD ETHERNET SWITCH (MFES) - MODEL ITS-8042V3, FURNISHED BY COLUMBIA COUNTY

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

SATYA M. KOLLURU, P.E., PTOE, IMSA II
LICENSE NUMBER: 74459
OSIRIS 9 CONSULTING, LLC
13241 BARTRAM PARK BLVD STE 1109
JACKSONVILLE, FL 32258

COLUMBIA CO BOCC

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 25	COLUMBIA	445725-5-54-02

GENERAL NOTES

SHEET NO. IT-2

OTHER PAY ITEMS:

611-1-1	0.588 MI
611-2-1	1 EA
633-6	200 DA

0 10 50
Feet

ONLY
ONLY
ACCESS ROAD

SIGNAL CONTROLLER CABINET TO BE CONST. BY OTHERS
CONTROLLER TERMINATION
CAB-SR25-9.6
SEE SPLICE DIAGRAM (1)

633-2-32	12 EA	FOC TERMINATION
633-3-14	1 EA	BUFFER TUBE FAN-OUT KIT
684-1-3	1 EA	ETHERNET SWITCH

UTILIZE CONDUIT FROM SPLICE VAULT TO CABINET CONST. BY OTHERS

633-1-121	16 LF	12 SM FOC

SPLICE VAULT TO BE CONST. BY OTHERS
FSV-SR25-9.6
SEE SPLICE DIAGRAM (1)

633-1-121	100 LF	12 SM FOC SLACK
633-1-122	200 LF	48 SM FOC SLACK
633-2-31	14 EA	FOC SPLICE
633-3-11	1 EA	SPLICE ENCLOSURE
633-3-12	2 EA	SPLICE TRAY

OPEN TRENCH CONDUIT

630-2-11	2 RUNS @ 127 LF	FOC, LOC
633-1-122	127 LF	48 SM FOC

FPB-SR25-9.6

633-1-122	50 LF	48 SM FOC SLACK
635-2-12	1 EA	FPB

OPEN TRENCH CONDUIT

630-2-11	2 RUNS @ 678 LF	FOC, LOC
633-1-122	678 LF	48 SM FOC

R/W LINE

BFOE(D) BFOE(D) BFOE(D) BFOE(D) BFOE(D) BFOE(D)

506 507 508 509 510 511 512 513

N 00°55'49" W

SR 25 (US 41)

℄ SURVEY US 41

BEGIN ITS CONSTRUCTION
STA. 509+31.68

OE OE OE OE OE OE OE OE OE OE OE OE OE OE OE OE OE OE OE OE OE OE

W(D) W(D) W

R/W LINE

MATCHLINE STA. 513+50.00

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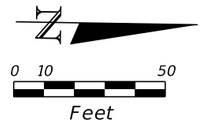
COLUMBIA CO BOCC

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 25	COLUMBIA	445725-5-54-02

ITS PLAN

SHEET NO.
IT-3



OPEN TRENCH CONDUIT

FOC, LOC	630-2-11	2 RUNS @ 339 LF
48 SM FOC	633-1-122	339 LF

FPB-SR25-9.8-B

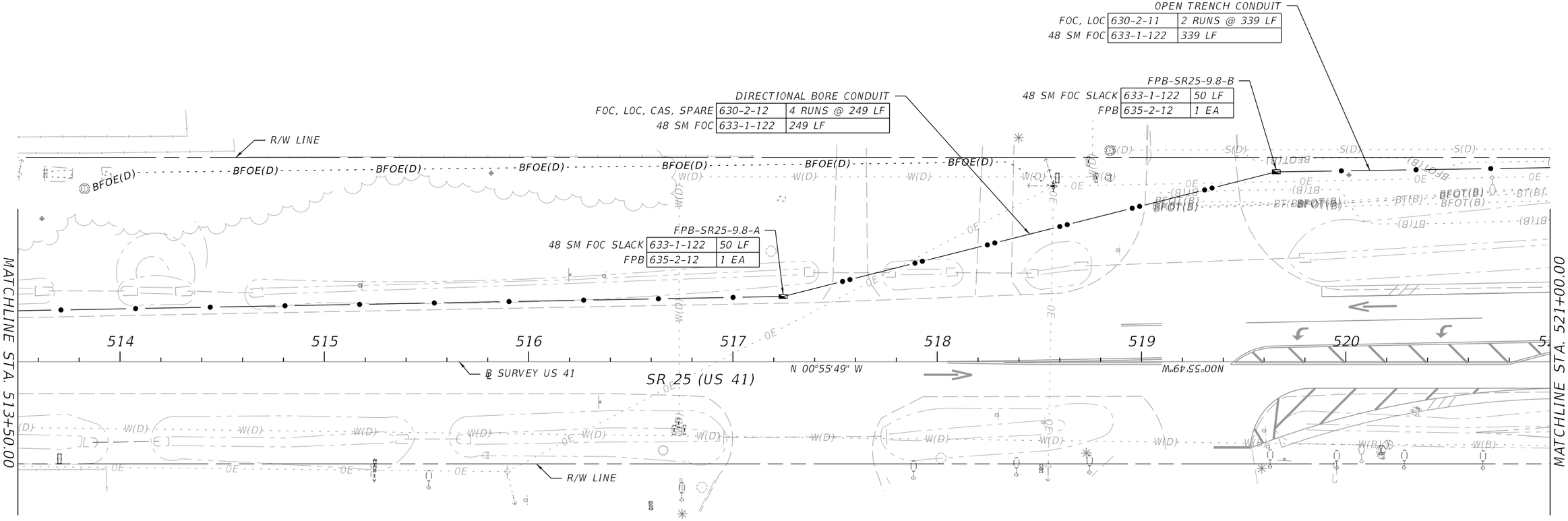
48 SM FOC SLACK	633-1-122	50 LF
FPB	635-2-12	1 EA

DIRECTIONAL BORE CONDUIT

FOC, LOC, CAS, SPARE	630-2-12	4 RUNS @ 249 LF
48 SM FOC	633-1-122	249 LF

FPB-SR25-9.8-A

48 SM FOC SLACK	633-1-122	50 LF
FPB	635-2-12	1 EA



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REVISIONS			
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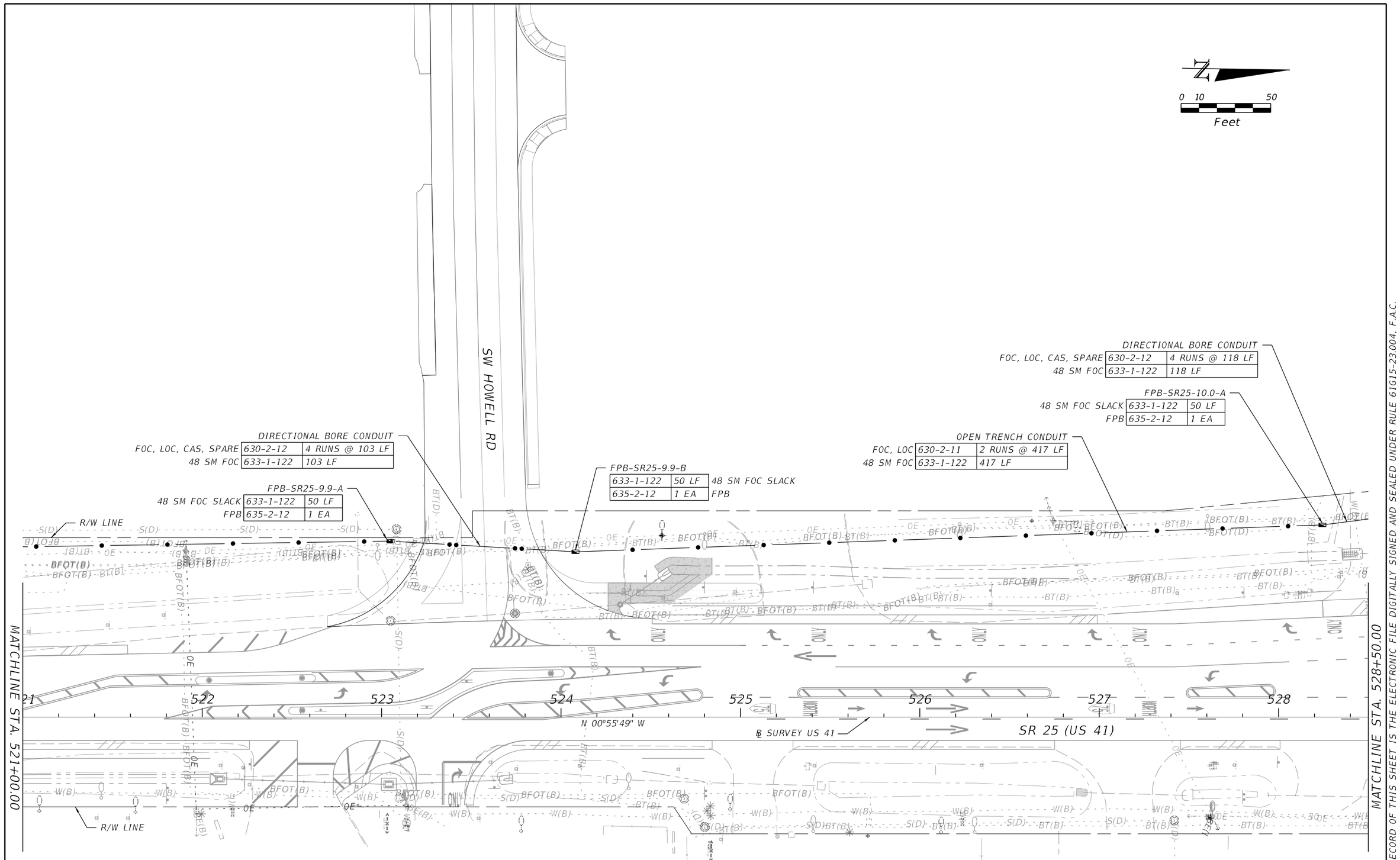
LICENSE NUMBER: 74459
OSIRIS 9 CONSULTING, LLC
13241 BARTRAM PARK BLVD STE 1109
JACKSONVILLE, FL 32258

COLUMBIA CO BOCC

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 25	COLUMBIA	445725-5-54-02

ITS PLAN

SHEET NO. IT-4



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REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

SATYA M. KOLLURU, P.E., PTOE, IMSA II
LICENSE NUMBER: 74459
OSIRIS 9 CONSULTING, LLC
13241 BARTRAM PARK BLVD STE 1109
JACKSONVILLE, FL 32258

COLUMBIA CO BOCC

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 25	COLUMBIA	445725-5-54-02

ITS PLAN

SHEET NO. IT-5

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N

0 10 50

Feet

OTHER PAY ITEMS:

611-2-1	1 EA

CONDUIT FROM SIGNALIZATION

12 SM FOC	633-1-121	94 LF
48 SM FOC	633-1-122	94 LF

FPB-SR25-10.1-B

12 SM FOC SLACK	633-1-121	50 LF
48 SM FOC SLACK	633-1-122	50 LF
FPB	635-2-12	1 EA

OPEN TRENCH CONDUIT

2X FOC, LOC	630-2-11	3 RUNS @ 35 LF
12 SM FOC	633-1-121	35 LF
48 SM FOC	633-1-122	35 LF

FPB-SR25-10.1-A

12 SM FOC SLACK	633-1-121	50 LF
48 SM FOC SLACK	633-1-122	50 LF
FPB	635-2-12	1 EA

OPEN TRENCH CONDUIT

2X FOC, LOC	630-2-11	3 RUNS @ 77 LF
12 SM FOC	633-1-121	77 LF
48 SM FOC	633-1-122	77 LF

FSV-SR25-10.0
SEE SPLICE DIAGRAM (2)

2X 12 SM FOC SLACK	633-1-121	50 LF, 100 LF
48 SM FOC SLACK	633-1-122	200 LF
FOC SPLICE	633-2-31	12 EA
SPLICE ENCLOSURE	633-3-11	1 EA
SPLICE TRAY	633-3-12	2 EA
SPLICE VAULT	635-2-13	1 EA

OPEN TRENCH CONDUIT

FOC, LOC	630-2-11	2 RUNS @ 154 LF
48 SM FOC	633-1-122	154 LF

FPB-SR25-10.0-B

633-1-122	50 LF	48 SM FOC SLACK
635-2-12	1 EA	FPB

OPEN TRENCH CONDUIT

2X FOC, LOC	630-2-11	3 RUNS @ 20 LF
2X 12 SM FOC	633-1-121	20 LF, 20 LF

CONTROLLER TERMINATION CAB-SR25-10.0
SEE SPLICE DIAGRAM (2)

FOC TERMINATION	633-2-32	24 EA
BUFFER TUBE FAN-OUT KIT	633-3-14	2 EA
24 PORT PATCH PANEL	633-3-16	1 EA
ETHERNET SWITCH	684-1-3	1 EA

FPB-SR25-10.0-C

633-1-121	50 LF, 50 LF	2X 12 SM FOC SLACK
635-2-12	1 EA	FPB

OPEN TRENCH CONDUIT

630-2-11	2 RUNS @ 6 LF	2X FOC
633-1-121	6 LF, 6 LF	2X 12 SM FOC

CCTV-SR25-10.0
(SEE SIGNALIZATION PLANS)

EXIST. FSV (TO REMAIN)

COIL AND CAP 12 SM FOC SLACK IN EXIST. FPB

12 SM FOC SLACK	633-1-121	200 LF

EXIST. MHUB AND MICROWAVE TOWER POWER SERVICE POLE TO REMAIN

EXIST. MHUB AND MICROWAVE TOWER ELECTRICAL SERVICE WIRING

EXIST. DUAL 96 SM FOC

EXIST. MHUB TOWER SHELTER 75-413.8

EXIST. MICROWAVE TOWER 75-413.8

OPEN TRENCH CONDUIT

630-2-11	2 RUNS @ 186 LF	FOC, LOC
633-1-121	186 LF	12 SM FOC

DIRECTIONAL BORE CONDUIT

FOC, LOC, CAS, SPARE	630-2-12	4 RUNS @ 332 LF
48 SM FOC	633-1-122	332 LF

FPB-SR25-10.1-D

12 SM FOC SLACK	633-1-121	50 LF
48 SM FOC SLACK	633-1-122	50 LF
FPB	635-2-12	1 EA

FPB-SR25-10.1-E

48 SM FOC SLACK	633-1-122	50 LF
FPB	635-2-12	1 EA

OPEN TRENCH CONDUIT

630-2-11	2 RUNS @ 118 LF	FOC, LOC
633-1-122	118 LF	48 SM FOC

OPEN TRENCH CONDUIT

630-2-11	3 RUNS @ 128 LF	2X FOC, LOC
633-1-121	128 LF	12 SM FOC
633-1-122	128 LF	48 SM FOC

FPB-SR25-10.1-C

633-1-121	50 LF	12 SM FOC SLACK
633-1-122	50 LF	48 SM FOC SLACK
635-2-12	1 EA	FPB

℄ CONST. RAMP D

℄ SURVEY US 41

N 00°55'49" W

SR 25 (US 41)

RAMP D

RAMP A

SR 93 (I-75) SOUTHBOUND BRIDGE NO. 290053

R/W LINE

LA R/W LINE

MATCHLINE STA. 528+50.00

MATCHLINE STA. 536+00.00

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REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

SATYA M. KOLLURU, P.E., PTOE, IMSA II
LICENSE NUMBER: 74459
OSIRIS 9 CONSULTING, LLC
13241 BARTRAM PARK BLVD STE 1109
JACKSONVILLE, FL 32258

COLUMBIA CO BOCC

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 25	COLUMBIA	445725-5-54-02

ITS PLAN

SHEET NO. IT-6

T:\WorkSets\Columbia County\44572515201\ITS\PLANIT01.dgn : US 41 - PLAN 4 [SHEET]
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OTHER PAY ITEMS:

611-2-1	1 EA

FPB-SR25-10.2-A

48 SM FOC SLACK	633-1-122	50 LF
FPB	635-2-12	1 EA

EXIST. 96 SM FOC (NORTH) TO REMAIN

℄ CONST. RAMP C

CONDUIT FROM SIGNALIZATION

48 SM FOC	633-1-122	158 LF

REPLACE EXIST. SPLICE VAULT AT NEW GRADE

SPLICE VAULT	635-2-13	1 EA

EXIST. DUAL 96 SM FOC TO REMAIN

FPB-SR25-10.2-B

48 SM FOC SLACK	633-1-122	50 LF
FPB	635-2-12	1 EA

EXIST. POLE 75-413.8
CCTV 75-413.8
MVDS 75-413.8

OPEN TRENCH CONDUIT

FOC, LOC	630-2-11	2 RUNS @ 169 LF
48 SM FOC	633-1-122	169 LF

SR 93 (I-75) SOUTHBOUND BRIDGE NO. 290053

SR 93 (I-75) NORTHBOUND BRIDGE NO. 290082

SR 25 (US 41)

℄ SURVEY US 41

N 00°55'49" W

MATCHLINE STA. 536+00.00

(1) CONDUIT FROM SIGNALIZATION

633-1-121	6 LF	12 SM FOC

EXIST. 96 SM FOC (SOUTH) TO REMAIN

℄ CONST. RAMP B

RAMP B

RAMP C

S89°18'42"W

MERGE

LA R/W LINE

R/W LINE

FPB-SR25-10.2-C

633-1-122	50 LF	48 SM FOC SLACK
635-2-12	1 EA	FPB

CONDUIT FROM SIGNALIZATION

633-1-122	170 LF	48 SM FOC

CCTV-SR25-10.2
(SEE SIGNALIZATION PLANS)

CONTROLLER TERMINATION
CAB-SR25-10.2
SEE SPLICE DIAGRAM (3)

633-2-32	12 EA	FOC TERMINATION
633-3-14	1 EA	BUFFER TUBE FAN-OUT KIT
633-3-16	1 EA	PATCH PANEL
684-1-3	1 EA	ETHERNET SWITCH

END ITS CONSTRUCTION
STA. 541+87.81

N 01°33'10" W

FSV-SR25-10.2
SEE SPLICE DIAGRAM (3)

633-1-121	100 LF	12 SM FOC SLACK
633-1-122	200 LF	48 SM FOC SLACK
633-2-31	14 EA	FOC SPLICE
633-3-11	1 EA	SPLICE ENCLOSURE
633-3-12	2 EA	SPLICE TRAY
635-2-13	1 EA	SPLICE VAULT

0 10 50
Feet

N

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REVISIONS			
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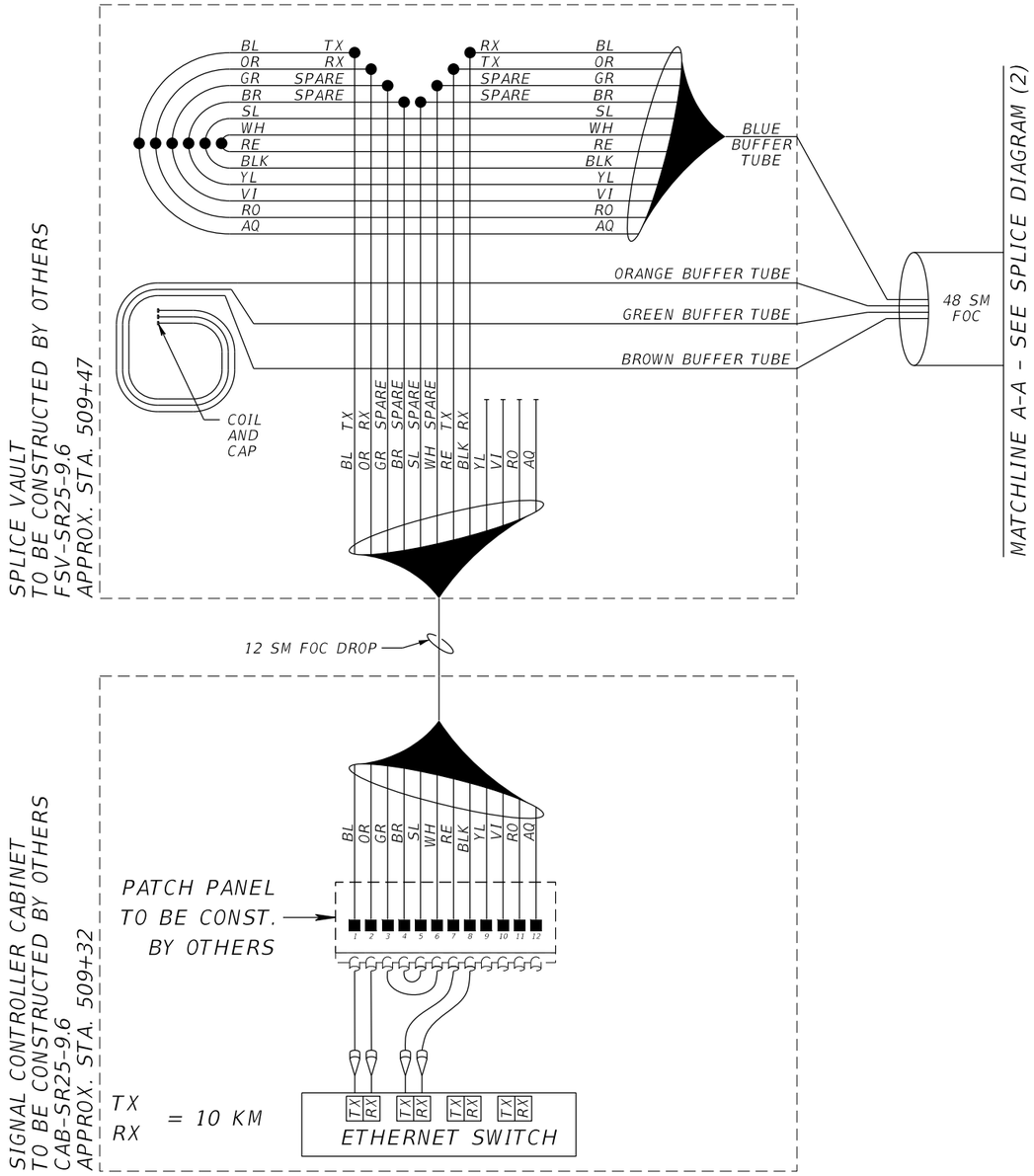
LICENSE NUMBER: 74459
OSIRIS 9 CONSULTING, LLC
13241 BARTRAM PARK BLVD STE 1109
JACKSONVILLE, FL 32258

COLUMBIA CO BOCC

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 25	COLUMBIA	445725-5-54-02

ITS PLAN

SHEET NO. IT-7



FIELD ETHERNET SWITCH & SPLICE
INTERSECTION OF SR 25 (US 41)
& ACCESS ROAD

SPLICE DIAGRAM (1)

LEGEND

- ● FUSION SPLICE
- ■ TERMINATOR
- ⊢ UNTERMINATED FIBER

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

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13241 BARTRAM PARK BLVD STE 1109
JACKSONVILLE, FL 32258

COLUMBIA CO BOCC		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 25	COLUMBIA	445725-5-54-02

SPLICE DIAGRAMS

SHEET NO.
IT-8

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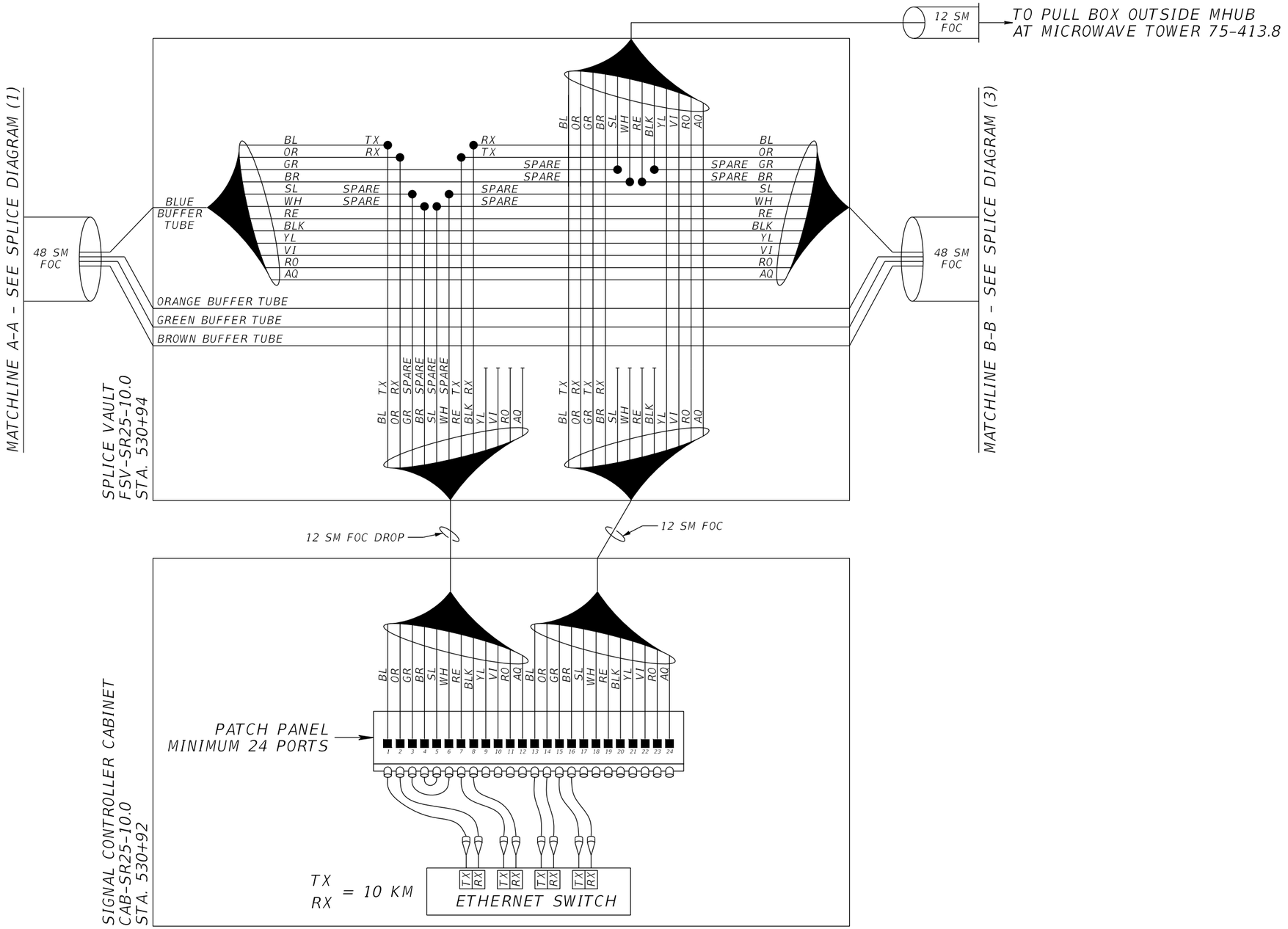

FIELD ETHERNET SWITCH & SPLICE
INTERSECTION OF SR 25 (US 41)
& I-75 RAMPS A & D

SPLICE DIAGRAM (2)

LEGEND

- ● FUSION SPLICE
- ■ TERMINATOR
- ⊢ UNTERMINATED FIBER

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

SATYA M. KOLLURU, P.E., PTOE, IMSA II
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13241 BARTRAM PARK BLVD STE 1109
JACKSONVILLE, FL 32258

COLUMBIA CO BOCC

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 25	COLUMBIA	445725-5-54-02

SPLICE DIAGRAMS

SHEET NO. IT-9

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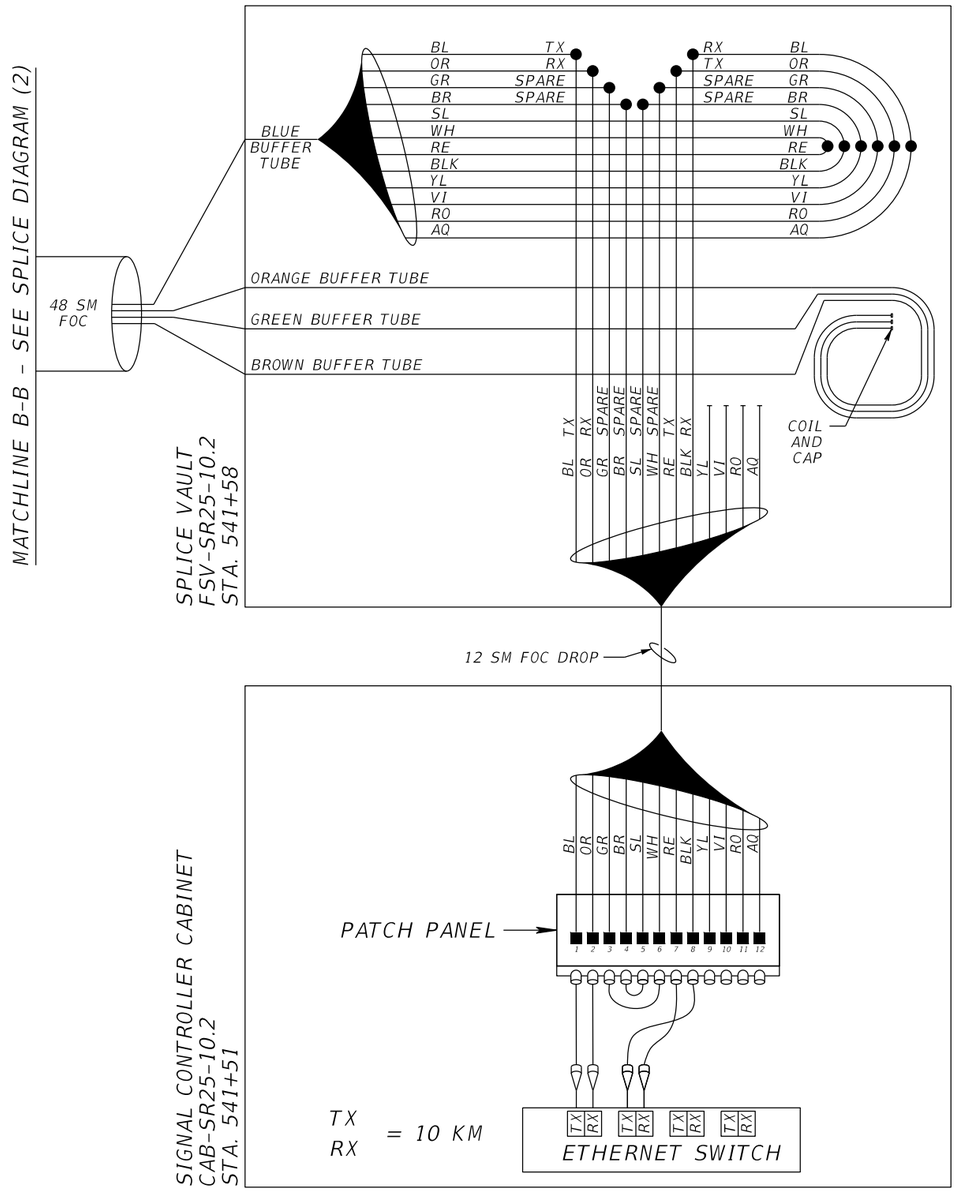

FIELD ETHERNET SWITCH & SPLICE
INTERSECTION OF SR 25 (US 41)
& I-75 RAMPS B & C

SPLICE DIAGRAM (3)

LEGEND

- ● FUSION SPLICE
- ■ TERMINATOR
- ⊢ UNTERMINATED FIBER

REVISIONS			
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JACKSONVILLE, FL 32258

COLUMBIA CO BOCC

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 25	COLUMBIA	445725-5-54-02

SPLICE DIAGRAMS

SHEET NO. IT-10

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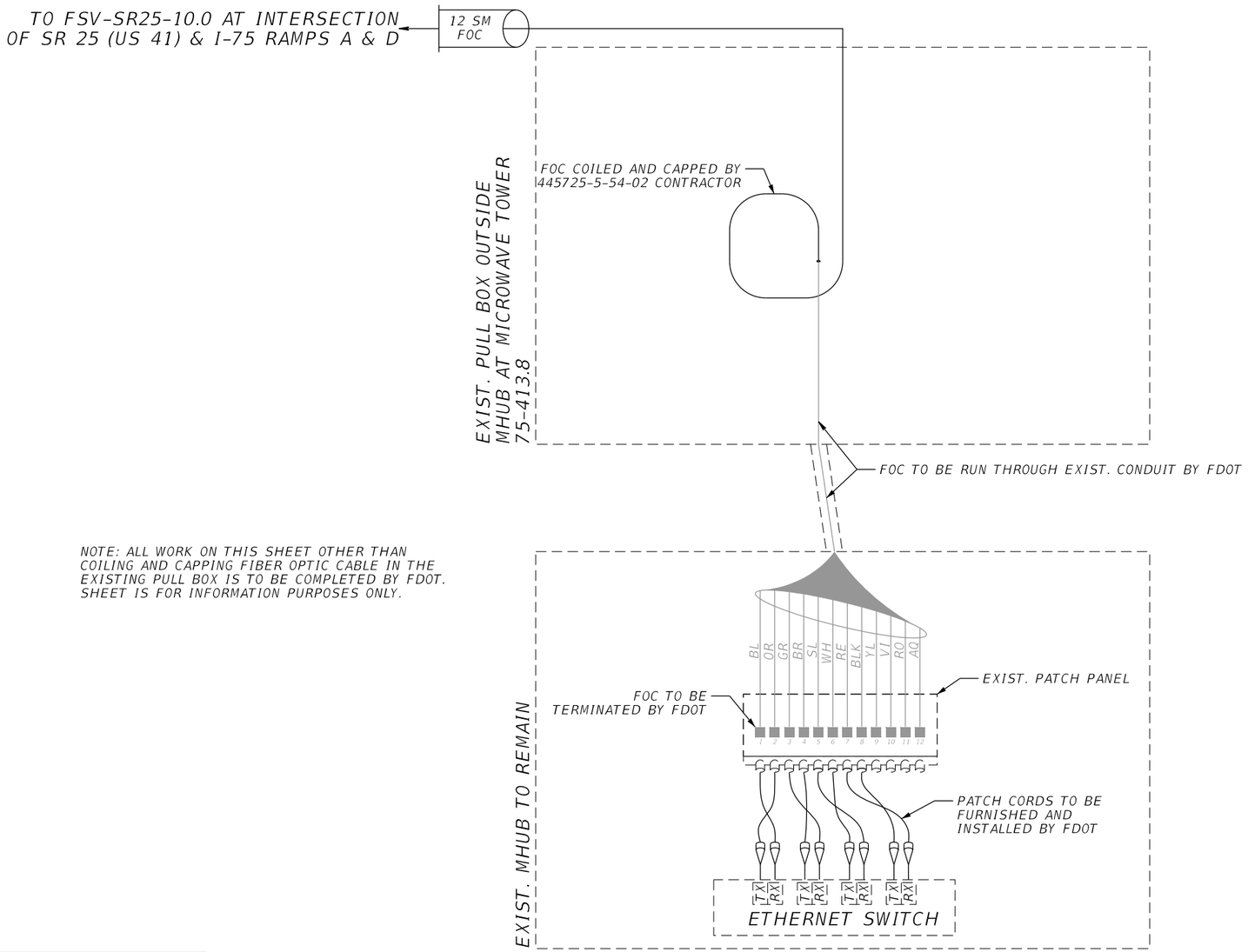

NOTE: ALL WORK ON THIS SHEET OTHER THAN COILING AND CAPPING FIBER OPTIC CABLE IN THE EXISTING PULL BOX IS TO BE COMPLETED BY FDOT. SHEET IS FOR INFORMATION PURPOSES ONLY.

FIELD ETHERNET SWITCH
MHUB AT MICROWAVE TOWER 75-413.8

LEGEND

■ TERMINATOR

⊢ UNTERMINATED FIBER

MHUB CONNECTION DETAIL

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

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COLUMBIA CO BOCC

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 25	COLUMBIA	445725-5-54-02

MHUB CONNECTION DETAIL

SHEET NO. IT-11

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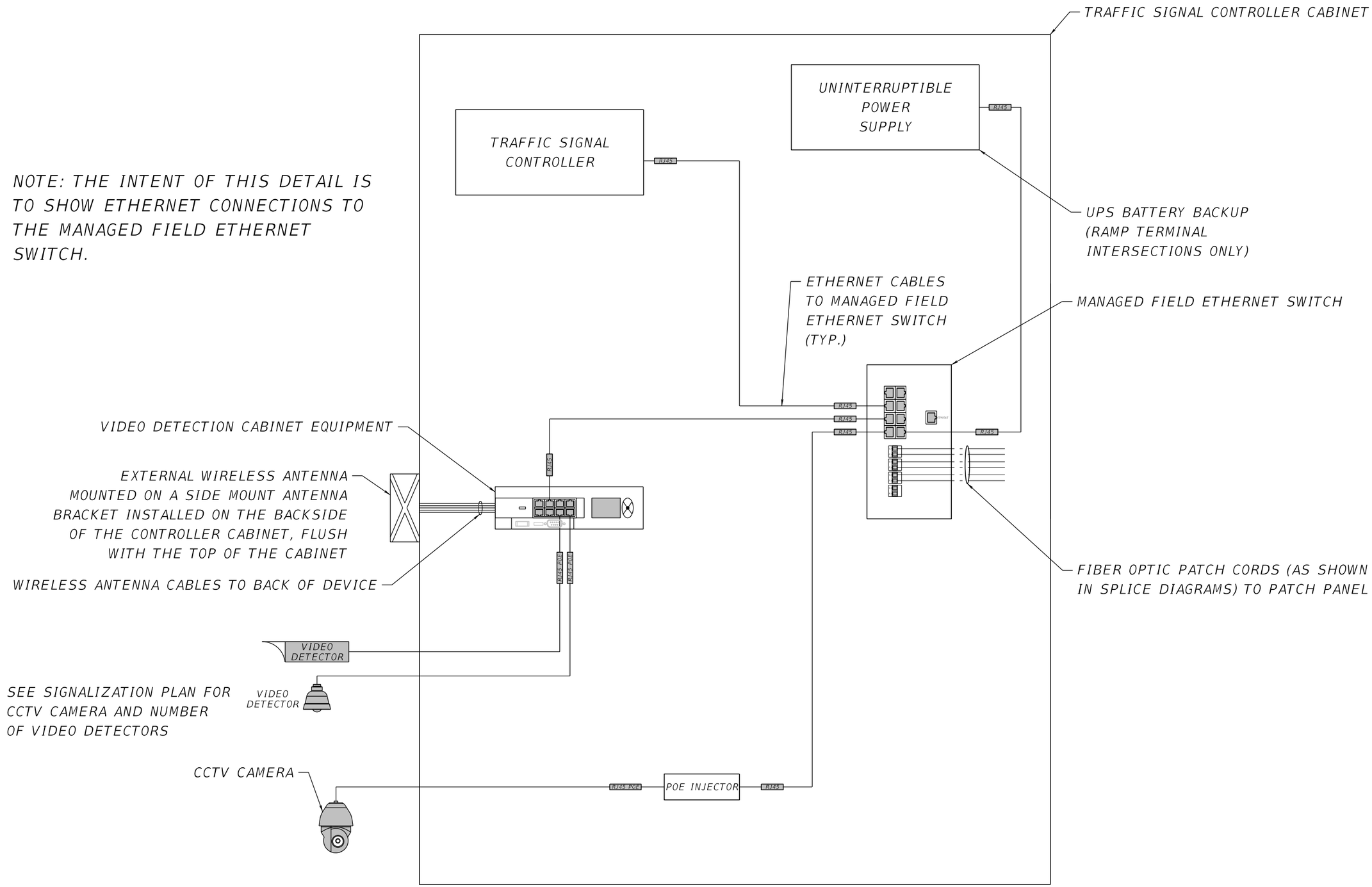
NOTE: THE INTENT OF THIS DETAIL IS TO SHOW ETHERNET CONNECTIONS TO THE MANAGED FIELD ETHERNET SWITCH.



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COLUMBIA CO BOCC

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 25	COLUMBIA	445725-5-54-02

WIRING DIAGRAM

SHEET NO. IT-12

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Exhibit "E"

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CONTRACT PLANS COMPONENTS

ROADWAY
SIGNING AND PAVEMENT MARKING
SIGNALIZATION
INTELLIGENT TRANSPORTATION SYSTEMS
LIGHTING

INDEX OF LIGHTING PLANS

SHEET NO.	SHEET DESCRIPTION
L-1	KEY SHEET
L-2	GENERAL NOTES
L-3	LIGHTING DATA TABLE
L-4 - L-10	LIGHTING PLAN

CONTRACT PLANS

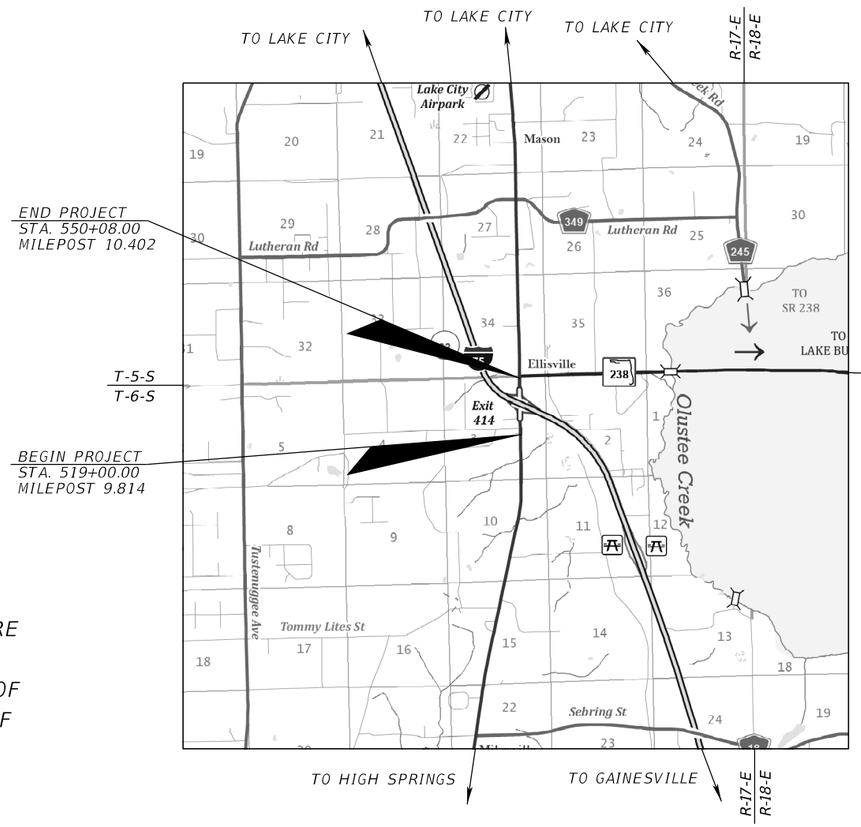
I-75 AT SR 25 (US 41)

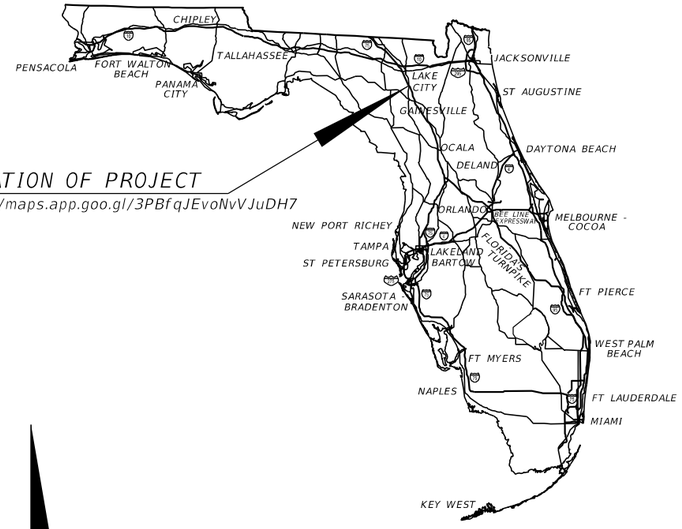
WIDENING AND RESURFACING

FINANCIAL PROJECT ID 445725-5-54-02

COLUMBIA COUNTY, FLORIDA

LIGHTING PLANS





LOCATION OF PROJECT
https://maps.app.goo.gl/3PBfqJEvoNvVJuDH7

N

ANY STRUCTURES PLANS CONTAINED HEREIN ARE EXEMPT FROM DISCLOSURE PURSUANT TO s.119.071(3)(b), FLA. STAT. AS THE RECEPIENT OF THESE RECORDS. PLEASE REFER REQUESTER OF RECORDS TO FLORIDA DEPARTMENT OF TRANSPORTATION.

GOVERNING STANDARD PLANS:

Florida Department of Transportation, FY2025-26 Standard Plans for Road and Bridge Construction and applicable Interim Revisions (IRs).

Standard Plans for Road Construction and associated IRs are available at the following website: http://www.fdot.gov/design/standardplans

APPLICABLE IRs: NONE

GOVERNING STANDARD SPECIFICATIONS:

Florida Department of Transportation, FY2025-26 Standard Specifications for Road and Bridge Construction at the following website: http://www.fdot.gov/programmanagement/Implemented/SpecBooks

LIGHTING PLANS ENGINEER OF RECORD:

SATYA M. KOLLURU, P.E., PTOE, IMSA II
P.E. LICENSE NUMBER 74459
OSIRIS 9 CONSULTING, LLC
13241 BARTRAM PARK BLVD STE 1109
JACKSONVILLE, FL, 32258
(904) 614-8103
VENDOR NO.: F452311176

SATYA M. KOLLURU
LICENSE
No 74459
STATE OF FLORIDA
PROFESSIONAL ENGINEER

THIS ITEM HAS BEEN DIGITALLY SIGNED AND SEALED BY:

ON THE DATE ADJACENT TO THE SEAL

SIGNATURE MUST BE VERIFIED ON ANY ELECTRONIC COPIES.

COLUMBIA COUNTY PROJECT MANAGER:

CHAD WILLIAMS, P.E.

FISCAL YEAR	SHEET NO.
26	L-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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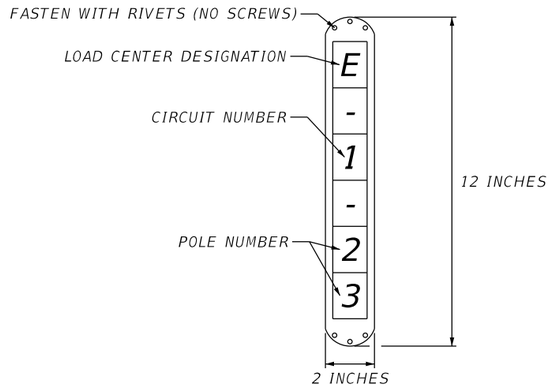
GENERAL NOTES

1. REFER TO ROADWAY PLANS FOR UTILITY CONTACT INFORMATION.
2. FIFTEEN MINUTES PRIOR TO INITIATING TTC FOR A LANE CLOSURE, 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 COMPLETE AND LANES ARE REOPENED, CONTACT THE DISTRICT TWO RTMC WITHIN THIRTY MINUTES TO NOTIFY THEM THAT THE CLOSURES HAVE BEEN REMOVED.
3. THE CADD SYMBOLS USED TO REPRESENT LIGHT POLES ARE ENLARGED TO ENHANCE PLAN READABILITY AND DO NOT REPRESENT THE ACTUAL SIZE OF THESE ELEMENTS.
4. PROVIDE SHOP DRAWINGS OF THE PHOTOMETRIC CALCULATIONS FOR LUMINAIRES OTHER THAN THE BASIS OF DESIGN SHOWN IN THE PLANS. MEET OR EXCEED ALL PHOTOMETRIC REQUIREMENTS IN THE CONTRACT DOCUMENTS AND FDOT DESIGN MANUAL (FDM).
5. 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, IDENTIFYING STRUCTURE NUMBER, AND DIAMETER OF EXCAVATION IN INCHES.
6. WHERE AUGERING OR DRILLING, EXCAVATE THE FIRST FOUR FEET BY NON-MECHANICAL AND NON-DESTRUCTIVE MEANS.
7. WHEN BORING UNDER ROADWAY PAVEMENT, MAINTAIN A BORE DEPTH EQUAL TO TEN TIMES THE BORED DIAMETER OR GREATER, WITH A MINIMUM OF 36 INCHES, AS MEASURED FROM THE TOP OF PAVEMENT TO THE TOP OF THE BORE, UNLESS OTHERWISE APPROVED BY THE ENGINEER.
8. ALL DIRECTIONAL BORE ACTIVITIES MUST REMAIN A MINIMUM OF 10 FEET FROM ALL STRUCTURAL FOUNDATION ELEMENTS.
9. MAINTAIN SERVICE OF EXISTING LIGHTING FEATURES AS NORMAL DURING CONSTRUCTION.
10. THE LOCATIONS OF 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.
11. ALL DIRECTIONAL BORES INCLUDE ONE SPARE CONDUIT RUN.
12. THE DESIGN WIND SPEED IS 120 MPH.
13. THE SCOPE OF WORK FOR LIGHTING INCLUDES UPGRADING THE LUMINAIRES ON THE HIGH MAST LIGHT POLES TO LED LUMINAIRES AND INSTALLING LIGHTING FEATURES AT THE RAMP TERMINAL INTERSECTIONS. ALL OTHER EXISTING LIGHTING FEATURES ARE TO REMAIN. ALL OTHER PROPOSED LUMINAIRES, SHOWN AS "(TO BE CONSTRUCTED BY OTHERS)" IN THE PLANS, ARE TO BE INSTALLED BY THE CLAY ELECTRIC COOPERATIVE AS PART OF A ROADWAY ILLUMINATION SERVICES AGREEMENT.
14. IN ADDITION TO THE STANDARD FDOT ABBREVIATIONS FOUND IN THE STANDARD PLANS, THE FOLLOWING ABBREVIATIONS ARE USED:

ABBREVIATION	MEANING
LTC	LIGHTING CONDUCTORS
CEC	CLAY ELECTRIC COOPERATIVE

15. ALL LIGHT POLE FOUNDATIONS ARE DRILLED SHAFTS THAT MATCH THE DETAILS SHOWN ON FDOT STANDARD PLANS 715-002. THE DRILLED SHAFT DEPTH IS 9 FT.

POLE IDENTIFICATION TAG DETAIL



LIGHTING LEGEND

SYMBOLS	DESCRIPTION
	EXIST. LIGHT POLE TO REMAIN
	EXIST. HIGH MAST LIGHT POLE TO REMAIN, LUMINAIRES TO REPLACE THE BASIS OF DESIGN USED IS: MANUFACTURER: SIGNIFY; MODEL: LUMEC-HFP; 720 WATT; LED; 480 VOLT; TYPE V DISTRIBUTION; CCT 3000K. PART NUMBER: HFP-730W360LED-730-G1
	EXIST. UNDERDECK PIER CAP MOUNTED LUMINAIRE TO REPLACE THE BASIS OF DESIGN USED IS: MANUFACTURER: HOLOPHANE; MODEL: WALLCONNECT LED; 128 WATT; LED; 480 VOLT; TYPE III DISTRIBUTION; CCT 3000K. PART NUMBER: WCNG P7 30K T3M 480 XVOLT480
	PROPOSED CONVENTIONAL SINGLE ARM OR POLE TOP TENON MOUNT LIGHT POLE & CONC. SLAB THE BASIS OF DESIGN USED IS: MANUFACTURER: AMERICAN ELECTRIC LIGHTING; MODEL: ATB2-P604; 263 WATT; LED; 480 VOLT; TYPE IV DISTRIBUTION; CCT 3000K. PART NUMBER: AUTOBAHN ATB2-P604-R4-3K
	PROPOSED CLAY ELECTRIC COOPERATIVE SINGLE ARM LUMINAIRE (TO BE CONSTRUCTED BY CEC) MOUNTED TO NEW UTILITY POLE. THE BASIS OF DESIGN USED IS: MANUFACTURER: AMERICAN ELECTRIC LIGHTING; MODEL: ATBM-P40-MVOLT; 135 WATT; LED; 120 VOLT; TYPE III DISTRIBUTION; CCT 3000K. PART NUMBER: AUTOBAHN ATBM-P40-MVOLT-R3-3K
	PROPOSED CLAY ELECTRIC COOPERATIVE SINGLE ARM LUMINAIRE (TO BE CONSTRUCTED BY CEC) MOUNTED TO EXISTING UTILITY POLE. THE BASIS OF DESIGN USED IS: MANUFACTURER: AMERICAN ELECTRIC LIGHTING; MODEL: ATBM-P40-MVOLT; 135 WATT; LED; 120 VOLT; TYPE III DISTRIBUTION; CCT 3000K. PART NUMBER: AUTOBAHN ATBM-P40-MVOLT-R3-3K
	LIGHTING PULL BOX
	OPEN TRENCH CONDUIT
	DIRECTIONAL BORE CONDUIT
BE(B)- - - - - - - - -	EXISTING LIGHTING CONDUCTORS

SIGNALIZED INTERSECTION LIGHTING
NEW OR RECONSTRUCTION ILLUMINATION CRITERIA

AVERAGE INITIAL INTENSITY (HORIZONTAL FOOT CANDLES)	3.0 STD., 1.5 MIN.
AVERAGE INITIAL INTENSITY (VERTICAL FOOT CANDLES)	1.5 STD., 1.2 MIN.
UNIFORMITY RATIO AVG./MIN.	4:1 OR LESS
UNIFORMITY RATIO MAX./MIN.	10:1 OR LESS
VEILING LUMINANCE RATIO	N/A

CORRIDOR LIGHTING
NEW OR RECONSTRUCTION ILLUMINATION CRITERIA

AVERAGE INITIAL INTENSITY (HORIZONTAL FOOT CANDLES)	1.5
AVERAGE INITIAL INTENSITY (VERTICAL FOOT CANDLES)	N/A
UNIFORMITY RATIO AVG./MIN.	4:1 OR LESS
UNIFORMITY RATIO MAX./MIN.	10:1 OR LESS
VEILING LUMINANCE RATIO	0.3:1 OR LESS

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REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

SATYA M. KOLLURU, P.E., PTOE, IMSA II
LICENSE NUMBER: 74459
OSIRIS 9 CONSULTING, LLC
13241 BARTRAM PARK BLVD STE 1109
JACKSONVILLE, FL 32258

COLUMBIA CO BOCC

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 25	COLUMBIA	445725-5-54-02

GENERAL NOTES

SHEET NO. L-2

LIGHTING DATA TABLE

LUMINAIRE NO.	EASTING (X)	NORTHING (Y)	BASELINE	STATION	OFFSET (FT)	FOUNDATION	ARM LENGTH (FT)	ARM RISE (FT)	MOUNT HEIGHT (FT)	QTY. OF LUMS.	TYPE	MAKE/MODEL	LUMENS	IES DIST TYPE	CCT(K)	TILT (DEG)	LUMINAIRE WATTS	LUMINAIRE VOLTS	LOAD CENTER NO.	CIRCUIT NO.	OWNER / MAINTAINING AGENCY	PAY ITEM
1	2570823.00	367012.00	US 41	520+07.68	48.74 RT	N/A	12	3	29	1	COBRA	AEL ATBM-P40-MVOLT	16,402	III	3,000	0	135	120	N/A	N/A	CLAY ELECTRIC	N/A
2	2570683.10	367073.76	US 41	520+71.70	90.14 LT	N/A	12	3	29	1	COBRA	AEL ATBM-P40-MVOLT	16,402	III	3,000	0	135	120	N/A	N/A	CLAY ELECTRIC	N/A
3	2570817.00	367148.00	US 41	521+43.76	44.95 RT	N/A	12	3	29	1	COBRA	AEL ATBM-P40-MVOLT	16,402	III	3,000	0	135	120	N/A	N/A	CLAY ELECTRIC	N/A
4	2570678.80	367193.03	US 41	521+91.02	92.5 LT	N/A	12	3	29	1	COBRA	AEL ATBM-P40-MVOLT	16,402	III	3,000	0	135	120	N/A	N/A	CLAY ELECTRIC	N/A
5	2570673.59	367299.62	US 41	522+97.69	95.98 LT	N/A	12	3	29	1	COBRA	AEL ATBM-P40-MVOLT	16,402	III	3,000	0	135	120	N/A	N/A	CLAY ELECTRIC	N/A
6	2570818.43	367317.87	US 41	523+13.58	49.14 RT	N/A	12	3	29	1	COBRA	AEL ATBM-P40-MVOLT	16,402	III	3,000	0	135	120	N/A	N/A	CLAY ELECTRIC	N/A
7	2570807.00	367441.87	US 41	524+37.75	39.72 RT	N/A	12	3	29	1	COBRA	AEL ATBM-P40-MVOLT	16,402	III	3,000	0	135	120	N/A	N/A	CLAY ELECTRIC	N/A
8	2570664.49	367481.94	US 41	524+80.12	102.12 LT	N/A	12	3	29	1	COBRA	AEL ATBM-P40-MVOLT	16,402	III	3,000	0	135	120	N/A	N/A	CLAY ELECTRIC	N/A
9	2570829.10	367545.13	US 41	525+40.64	63.5 RT	N/A	12	3	29	1	COBRA	AEL ATBM-P40-MVOLT	16,402	III	3,000	0	135	120	N/A	N/A	CLAY ELECTRIC	N/A
10	2570656.65	367623.93	US 41	526+22.23	107.65 LT	N/A	12	3	29	1	COBRA	AEL ATBM-P40-MVOLT	16,402	III	3,000	0	135	120	N/A	N/A	CLAY ELECTRIC	N/A
11	2570828.28	367635.05	US 41	526+30.56	64.14 RT	N/A	12	3	29	1	COBRA	AEL ATBM-P40-MVOLT	16,402	III	3,000	0	135	120	N/A	N/A	CLAY ELECTRIC	N/A
12	2570650.00	367762.00	US 41	527+60.39	112.06 LT	N/A	12	3	29	1	COBRA	AEL ATBM-P40-MVOLT	16,402	III	3,000	0	135	120	N/A	N/A	CLAY ELECTRIC	N/A
13	2570817.26	367767.44	US 41	527+63.11	55.26 RT	N/A	12	3	29	1	COBRA	AEL ATBM-P40-MVOLT	16,402	III	3,000	0	135	120	N/A	N/A	CLAY ELECTRIC	N/A
14	2570628.75	367951.29	US 41	529+50.00	130.24 LT	N/A	12	3	29	1	COBRA	AEL ATBM-P40-MVOLT	16,402	III	3,000	0	135	120	N/A	N/A	CLAY ELECTRIC	N/A
A-3-001	2570833.00	368125.00	US 41	531+20.37	76.81 RT	SHAFT	15	5.5	40	1	COBRA	AEL ATB2-P604	32,450	IV	3,000	0	263	480	A	A-3	FDOT	715 61352
A-3-002	2570645.00	368143.00	US 41	531+41.42	110.87 LT	SHAFT	0	0	40	1	POLE TOP	AEL ATB2-P604	32,450	IV	3,000	0	263	480	A	A-3	FDOT	715 61300
A-3-003	2570801.55	368227.17	US 41	532+23.04	47.02 RT	SHAFT	15	5.5	40	1	COBRA	AEL ATB2-P604	32,450	IV	3,000	0	263	480	A	A-3	FDOT	715 61352
A-3-004	2570653.77	368308.12	US 41	533+06.37	99.42 LT	SHAFT	15	5.5	40	1	COBRA	AEL ATB2-P604	32,450	IV	3,000	0	263	480	A	A-3	FDOT	715 61352
B-2-005	2570780.46	368982.75	US 41	539+78.85	38.2 RT	SHAFT	12	5.5	40	1	COBRA	AEL ATB2-P604	32,450	IV	3,000	0	263	480	B	B-2	FDOT	715 61342
B-2-006	2570613.71	369010.52	US 41	540+09.33	128.07 LT	SHAFT	12	5.5	40	1	COBRA	AEL ATB2-P604	32,450	IV	3,000	0	263	480	B	B-2	FDOT	715 61342
B-2-007	2570774.00	369132.57	US 41	541+28.39	34.54 RT	SHAFT	15	5.5	40	1	COBRA	AEL ATB2-P604	32,450	IV	3,000	0	263	480	B	B-2	FDOT	715 61352
22	2570636.56	369426.19	US 41	544+25.62	94.9 LT	N/A	12	3	29	1	COBRA	AEL ATBM-P40-MVOLT	16,402	III	3,000	0	135	120	N/A	N/A	CLAY ELECTRIC	N/A
23	2570775.24	369472.34	US 41	544+68.00	44.98 RT	N/A	12	3	29	1	COBRA	AEL ATBM-P40-MVOLT	16,402	III	3,000	0	135	120	N/A	N/A	CLAY ELECTRIC	N/A
24	2570634.50	369538.13	US 41	545+37.58	93.92 LT	N/A	12	3	29	1	COBRA	AEL ATBM-P40-MVOLT	16,402	III	3,000	0	135	120	N/A	N/A	CLAY ELECTRIC	N/A
25	2570776.00	369621.00	US 41	546+16.58	49.77 RT	N/A	12	3	29	1	COBRA	AEL ATBM-P40-MVOLT	16,402	III	3,000	0	135	120	N/A	N/A	CLAY ELECTRIC	N/A
26	2570631.74	369689.04	US 41	546+88.50	92.59 LT	N/A	12	3	29	1	COBRA	AEL ATBM-P40-MVOLT	16,402	III	3,000	0	135	120	N/A	N/A	CLAY ELECTRIC	N/A
27	2570779.79	369803.13	US 41	547+98.55	58.49 RT	N/A	12	3	29	1	COBRA	AEL ATBM-P40-MVOLT	16,402	III	3,000	0	135	120	N/A	N/A	CLAY ELECTRIC	N/A
28	2570629.80	369802.39	US 41	548+01.87	91.46 LT	N/A	12	3	29	1	COBRA	AEL ATBM-P40-MVOLT	16,402	III	3,000	0	135	120	N/A	N/A	CLAY ELECTRIC	N/A
29	2570776.42	369928.07	US 41	549+23.53	58.51 RT	N/A	12	3	29	1	COBRA	AEL ATBM-P40-MVOLT	16,402	III	3,000	0	135	120	N/A	N/A	CLAY ELECTRIC	N/A
30	2570626.44	369961.80	US 41	549+61.31	90.5 LT	N/A	12	3	29	1	COBRA	AEL ATBM-P40-MVOLT	16,402	III	3,000	0	135	120	N/A	N/A	CLAY ELECTRIC	N/A
29P044	2569503.01	369188.24	RAMP D	56+94.09	48.73 RT	EXIST.	0	0	120	3	HIGH MAST	HFP-360LED-G1	115,250	V	3,000	0	730	480	B	B-3	FDOT	0715 11212
29P045	2570108.91	368794.32	RAMP D	64+07.55	66.46 LT	EXIST.	0	0	120	3	HIGH MAST	HFP-360LED-G1	115,250	V	3,000	0	730	480	B	B-4	FDOT	0715 11212
29P046	2570545.14	368558.11	US 41	535+58.09	203.98 LT	EXIST.	0	0	120	3	HIGH MAST	HFP-360LED-G1	115,250	V	3,000	0	730	480	B	B-2	FDOT	0715 11212
29P047	2570644.33	368019.27	US 41	530+17.71	113.56 LT	EXIST.	0	0	120	3	HIGH MAST	HFP-360LED-G1	115,250	V	3,000	0	730	480	B	B-3	FDOT	0715 11212
29P048	2570914.41	368796.24	RAMP B	30+27.80	113.66 LT	EXIST.	0	0	120	3	HIGH MAST	HFP-360LED-G1	115,250	V	3,000	0	730	480	A	A-1	FDOT	0715 11212
29P049	2571388.70	368516.73	RAMP B	24+81.07	49.12 LT	EXIST.	0	0	120	3	HIGH MAST	HFP-360LED-G1	115,250	V	3,000	0	730	480	A	A-2	FDOT	0715 11212
29P050	2572207.32	368095.95	RAMP B	15+74.74	111.37 RT	EXIST.	0	0	120	3	HIGH MAST	HFP-360LED-G1	115,250	V	3,000	0	730	480	A	A-1	FDOT	0715 11212
29P051	2570606.04	369165.43	US 41	541+65.79	132.47 LT	EXIST.	0	0	120	3	HIGH MAST	HFP-360LED-G1	115,250	V	3,000	0	730	480	B	B-2	FDOT	0715 11212
29P052	2569980.67	369167.26	RAMP C	47+81.52	52.33 RT	EXIST.	0	0	120	3	HIGH MAST	HFP-360LED-G1	115,250	V	3,000	0	730	480	B	B-1	FDOT	0715 11212
29P053	2571074.43	368320.88	RAMP B	26+12.71	395.23 LT	EXIST.	0	0	120	3	HIGH MAST	HFP-360LED-G1	115,250	V	3,000	0	730	480	A	A-2	FDOT	0715 11212
29P054	2571682.20	368043.19	RAMP B	19+60.83	248.44 LT	EXIST.	0	0	120	3	HIGH MAST	HFP-360LED-G1	115,250	V	3,000	0	730	480	A	A-3	FDOT	0715 11212

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REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

SATYA M. KOLLURU, P.E., PTOE, IMSA II
LICENSE NUMBER: 74459
OSIRIS 9 CONSULTING, LLC
13241 BARTRAM PARK BLVD STE 1109
JACKSONVILLE, FL 32258

COLUMBIA CO BOCC

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 25	COLUMBIA	445725-5-54-02

LIGHTING DATA TABLE

SHEET NO. L-3

SHELL GAS STATION

N

0 10 50
Feet

LUMINAIRE NO. 2
STA. 520+71.70
OFF. = 90.14' LT.
X = 2570683.10'
Y = 367073.76'
(TO BE CONST. BY CEC)

R/W LINE

BFOE(D) W(D) S(D) OE BT(B) BFOT(B) BFOT(B)

15 16 17 18 19 20 21 22 23

SR 25 (US 41)

℄ SURVEY SR 25 (US 41)

N00°55'49"W

MATCHLINE STA. 521+00.00

R/W LINE

BEGIN LIGHTING
STA. 520+07.68

LUMINAIRE NO. 1
STA. 520+07.68
OFF. = 48.74' RT.
X = 2570823.00'
Y = 367012.00'
(TO BE CONST. BY CEC)

SUNOCO GAS STATION

TA TRAVEL CENTER

TA TRUCK SERVICE

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OSIRIS 9 CONSULTING, LLC
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JACKSONVILLE, FL 32258

COLUMBIA CO BOCC

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 25	COLUMBIA	445725-5-54-02

LIGHTING PLAN (1)

SHEET NO. L-4

T:\WorkSets\Columbia County\44572515201\Lighting\PLANLT01.dgn : US 41 - PLAN 2 [SHEET]
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SHELL GAS STATION

ELLISVILLE FOOD CENTER

SW HOWELL RD

N

0 10 50

Feet

LUMINAIRE NO. 4
STA. 521+91.02
OFF. = 92.50' LT.
X = 2570678.80'
Y = 367193.03'
(TO BE CONST. BY CEC)

LUMINAIRE NO. 5
STA. 522+97.69
OFF. = 95.98' LT.
X = 2570673.59'
Y = 367299.62'
(TO BE CONST. BY CEC)

LUMINAIRE NO. 8
STA. 524+80.12
OFF. = 102.12' LT.
X = 2570664.49'
Y = 367481.94'
(TO BE CONST. BY CEC)

LUMINAIRE NO. 10
STA. 526+22.23
OFF. = 107.65' LT.
X = 2570656.65'
Y = 367623.93'
(TO BE CONST. BY CEC)

LUMINAIRE NO. 12
STA. 527+60.39
OFF. = 112.06' LT.
X = 2570650.00'
Y = 367762.00'
(TO BE CONST. BY CEC)

R/W LINE

R/W LINE

R/W LINE

MATCHLINE STA. 521+00.00

MATCHLINE STA. 528+50.00

521 522 523 524 525 526 527 528

℄ SURVEY SR 25 (US 41)

N00°55'49"W

SR 25 (US 41)

NORTH

R/W LINE

LUMINAIRE NO. 3
STA. 521+43.76
OFF. = 44.95' RT.
X = 2570817.00'
Y = 367148.00'
(TO BE CONST. BY CEC)

LUMINAIRE NO. 6
STA. 523+13.58
OFF. = 49.14' RT.
X = 2570818.43'
Y = 367317.87'
(TO BE CONST. BY CEC)

LUMINAIRE NO. 7
STA. 524+37.75
OFF. = 39.72' RT.
X = 2570807.00'
Y = 367441.87'
(TO BE CONST. BY CEC)

LUMINAIRE NO. 9
STA. 525+40.64
OFF. = 63.50' RT.
X = 2570829.10'
Y = 367545.13'
(TO BE CONST. BY CEC)

LUMINAIRE NO. 11
STA. 526+30.56
OFF. = 64.14' RT.
X = 2570828.28'
Y = 367635.05'
(TO BE CONST. BY CEC)

LUMINAIRE NO. 13
STA. 527+63.11
OFF. = 55.26' RT.
X = 2570817.26'
Y = 367767.44'
(TO BE CONST. BY CEC)

DUNKIN

SUBWAY

SHUTTLE TRUCK STOP 75 TA

PALMS GARDEN INN

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REVISIONS			
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SATYA M. KOLLURU, P.E., PTOE, IMSA II
LICENSE NUMBER: 74459
OSIRIS 9 CONSULTING, LLC
13241 BARTRAM PARK BLVD STE 1109
JACKSONVILLE, FL 32258

COLUMBIA CO BOCC

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 25	COLUMBIA	445725-5-54-02

LIGHTING PLAN (2)

SHEET NO. L-5

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Feet

EXIST. LIGHTING CONDUIT AND CONDUCTORS TO REMAIN

LA R/W LINE

℄ CONST. RAMP D

RAMP D

LUMINAIRE NO. A-3-002
STA. 531+41.42
110.87' LT.

LTC	630-2-11	1 RUN @ 3 LF
	635-2-11	1 EA
CKT. A-3	715-1-13	3#4: 57 LF
CKT. A-3	715-61-300	1 EA
	715-500-1	1 EA

LUMINAIRE NO. 14
STA. 529+50.00
OFF. = 130.24' LT.
X = 2570628.75'
Y = 367951.29'
(TO BE CONST. BY CEC)

R/W LINE

EXIST. 29P047

S42°54'10"E

LTC	630-2-12	2 RUNS @ 168 LF
CKT. A-3	715-1-13	3#4: 552 LF

S59°26'59"E

LUMINAIRE NO. A-3-004
STA. 533+06.37
99.42' LT.

630-2-11	1 RUN @ 3 LF	LTC
635-2-11	1 EA	
715-1-13	3#4: 57 LF	CKT. A-3
715-61-352	1 EA	CKT. A-3
715-500-1	1 EA	

EXIST. 29P046

EXIST. LIGHTING CONDUIT AND CONDUCTORS TO REMAIN

LTC	630-2-12	2 RUNS @ 174 LF
CKT. A-3	715-1-13	3#4: 570 LF

529 530 531 532 533 534 535

MATCHLINE STA. 528+50.00

MATCHLINE STA. 536+00.00

NORTH

ONLY

N00°55'49"W
℄ SURVEY SR 25 (US 41)

SR 25 (US 41)

EXIST. LIGHTING CONDUIT AND CONDUCTORS TO REMAIN

LTC	630-2-12	2 RUNS @ 109 LF
CKT. A-1, A-2, A-3	715-1-13	7#4: 873 LF

LTC	630-2-11	1 RUN @ 230 LF
CKT. A-1, A-2	715-1-13	5#4: 1228 LF

EXIST. UNDERDECK LUMINAIRE TO REPLACE

715-11-225	1 EA

INTERCEPT AND CONNECT TO EXIST. LIGHTING CONDUCTORS

635-2-11	1 EA

R/W LINE

LA R/W LINE

RELOCATED CLAY ELECTRIC POWER SERVICE POLE FOR LOAD CENTER A

LTC	630-2-11	1 RUN @ 28 LF
CKT. A-1, A-2, A-3	715-1-13	7#4: 310 LF

LUMINAIRE NO. A-3-003
STA. 532+23.04
47.02' RT.

630-2-11	1 RUN @ 3 LF	LTC
635-2-11	1 EA	
715-1-13	3#4: 57 LF	CKT. A-3
715-61-352	1 EA	CKT. A-3
715-500-1	1 EA	

EXIST. LIGHTING CONDUIT AND CONDUCTORS TO BE REMOVED

SR 93 (I-75) SOUTHBOUND

SR 93 (I-75) NORTHBOUND

EXIST. LOAD CENTER A
RECONNECT LIGHTING CONDUCTORS FROM NEW CONDUIT AND PULL BOX
STA. 531+20.23, 110.19' RT.

LTC	630-2-11	1 RUN @ 6 LF
	635-2-11	1 EA
CKT. A-1, A-2, A-3	715-1-13	7#4: 155 LF
	715-7-21	1 EA

NOTE: CONDUCTOR REMOVAL FROM THIS SHEET IS QUANTIFIED ON L-9.

LUMINAIRE NO. A-3-001
STA. 531+20.37
76.81' RT.

630-2-11	1 RUN @ 3 LF	LTC
635-2-11	1 EA	
715-1-13	3#4: 57 LF	CKT. A-3
715-61-352	1 EA	CKT. A-3
715-500-1	1 EA	

RAMP A

LTC	630-2-12	2 RUNS @ 298 LF
CKT. A-2	715-1-13	3#4: 942 LF

EXIST. LIGHTING CONDUIT AND CONDUCTORS TO BE REMOVED

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REVISIONS			
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LICENSE NUMBER: 74459
OSIRIS 9 CONSULTING, LLC
13241 BARTRAM PARK BLVD STE 1109
JACKSONVILLE, FL 32258

COLUMBIA CO BOCC

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 25	COLUMBIA	445725-5-54-02

LIGHTING PLAN (3)

SHEET NO. L-6

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SR 93 (I-75) SOUTHBOUND

SR 93 (I-75) NORTHBOUND

NOTE: CONDUCTOR REMOVAL FROM THIS SHEET IS QUANTIFIED ON L-10.

EXIST. LIGHTING CONDUIT AND CONDUCTORS TO REMAIN

0 10 50
Feet

℄ CONST. RAMP C

LTC	630-2-12	2 RUNS @ 89 LF
CKT. B-2, B-3, B-4	715-1-13	7#4: 732 LF

635-2-11	1 EA

LTC	630-2-11	1 RUN @ 80 LF
CKT. B-2, B-3, B-4	715-1-13	7#4: 669 LF

S89°18'42"W

MERGE

RAMP C

65' R

EXIST. LOAD CENTER B
RECONNECT LIGHTING CONDUCTORS FROM NEW CONDUIT AND PULL BOX, CKT. B-1, B-2, B-3, B-4
STA. 541+46.35, 191.30' LT.

630-2-11	1 RUN @ 3 LF	LTC
635-2-11	1 EA	
715-1-13	9#4: 170 LF	CKT. B-1, B-2, B-3, B-4
715-7-21	1 EA	

CHEVRON GAS STATION

LA R/W LINE

EXIST. LIGHTING CONDUIT AND CONDUCTORS TO REMAIN

EXIST. 29P051

R/W LINE

LUMINAIRE NO. B-2-006
STA. 540+09.33
128.07' LT.

LTC	630-2-11	1 RUN @ 3 LF
	635-2-11	1 EA
CKT. B-2	715-1-13	3#4: 57 LF
CKT. B-2	715-61-342	1 EA
	715-500-1	1 EA

EXIST. UNDERDECK LUMINAIRE TO REPLACE

715-11-225	1 EA

EXIST. UNDERDECK LUMINAIRE TO REPLACE

715-11-225	1 EA

EXIST. LIGHTING CONDUIT AND CONDUCTORS TO REMAIN

LTC	630-2-11	1 RUN @ 152 LF
CKT. B-2, B-3, B-4	715-1-13	7#4: 1179 LF

635-2-11	1 EA

LTC	630-2-12	2 RUNS @ 175 LF
CKT. B-2	715-1-13	3#4: 573 LF

EXIST. LIGHTING CONDUIT AND CONDUCTORS TO BE REMOVED

MATCHLINE STA. 536+00.00

MATCHLINE STA. 543+50.00

536 537 538 539 540 541 542 543

SR 25 (US 41)

N00°55'49"W

℄ SURVEY SR 25 (US 41)

N01°33'10"W

42 41 40 33 32 31

EXIST. LIGHTING CONDUIT AND CONDUCTORS TO REMAIN

EXIST. UNDERDECK LUMINAIRE TO REPLACE

715-11-225	1 EA

LUMINAIRE NO. B-2-005
STA. 539+78.85
38.20' RT.

LTC	630-2-11	1 RUN @ 3 LF
	635-2-11	1 EA
CKT. B-2	715-1-13	3#4: 57 LF
CKT. B-2	715-61-342	1 EA
	715-500-1	1 EA

300' R

ONLY

630-2-12	2 RUNS @ 153 LF	LTC
715-1-13	3#4: 508 LF	CKT. B-2

N52°45'19"W

RAMP B

R/W LINE

LUMINAIRE NO. B-2-007
STA. 541+28.39
34.54' RT.

630-2-11	1 RUN @ 3 LF	LTC
635-2-11	1 EA	
715-1-13	3#4: 57 LF	CKT. B-2
715-61-352	1 EA	CKT. B-2
715-500-1	1 EA	

LA R/W LINE

EXIST. 29P048

EXIST. LIGHTING CONDUIT AND CONDUCTORS TO REMAIN

℄ CONST. RAMP B

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REVISIONS			
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LICENSE NUMBER: 74459
OSIRIS 9 CONSULTING, LLC
13241 BARTRAM PARK BLVD STE 1109
JACKSONVILLE, FL 32258

COLUMBIA CO BOCC

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 25	COLUMBIA	445725-5-54-02

LIGHTING PLAN (4)

SHEET NO. L-7

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0 10 50
Feet

LOVE'S TRAVEL STOP

LUMINAIRE NO. 22
STA. 544+25.62
OFF. = 94.90' LT.
X = 2570636.56'
Y = 369426.19'
(TO BE CONST. BY CEC)

LUMINAIRE NO. 24
STA. 545+37.58
OFF. = 93.92' LT.
X = 2570634.50'
Y = 369538.13'
(TO BE CONST. BY CEC)

LUMINAIRE NO. 26
STA. 546+88.50
OFF. = 92.59' LT.
X = 2570631.74'
Y = 369689.04'
(TO BE CONST. BY CEC)

LUMINAIRE NO. 28
STA. 548+01.87
OFF. = 91.46' LT.
X = 2570629.80'
Y = 369802.39'
(TO BE CONST. BY CEC)

LUMINAIRE NO. 30
STA. 549+61.31
OFF. = 90.50' LT.
X = 2570626.44'
Y = 369961.80'
(TO BE CONST. BY CEC)

R/W LINE

R/W LINE

END LIGHTING
STA. 549+61.31

MATCHLINE STA. 543+50.00

544 545 546 547 548 549 550

N01°33'10"W

SR 25 (US 41)

℄ SURVEY SR 25 (US 41)

LUMINAIRE NO. 23
STA. 544+68.00
OFF. = 44.98' RT.
X = 2570775.24'
Y = 369472.34'
(TO BE CONST. BY CEC)

LUMINAIRE NO. 25
STA. 546+16.58
OFF. = 49.77' RT.
X = 2570776.00'
Y = 369621.00'
(TO BE CONST. BY CEC)

LUMINAIRE NO. 27
STA. 547+98.55
OFF. = 58.49' RT.
X = 2570779.79'
Y = 369803.13'
(TO BE CONST. BY CEC)

LUMINAIRE NO. 29
STA. 549+23.53
OFF. = 58.51' RT.
X = 2570776.42'
Y = 369928.07'
(TO BE CONST. BY CEC)

R/W LINE

R/W LINE

SR 238 (YUKON AVE)

PIT STOP

DOLLAR GENERAL

BURGER KING

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LICENSE NUMBER: 74459
OSIRIS 9 CONSULTING, LLC
13241 BARTRAM PARK BLVD STE 1109
JACKSONVILLE, FL 32258

COLUMBIA CO BOCC

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 25	COLUMBIA	445725-5-54-02

LIGHTING PLAN (5)

SHEET NO.
L-8

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FOR DETAILS ON CONVENTIONAL LIGHTING AT THE RAMP TERMINAL INTERSECTION, SEE SHEETS LIGHTING PLAN (3) AND LIGHTING PLAN (4).

PALMS GARDEN INN

0 20 100
Feet

715-1-60	#4: 3000 LF

EXIST. 29P047, CKT. B-3
STA. 530+17.71
OFF. = 113.56' LT.
X = 2570644.33'
Y = 368019.27'

715-11-212	3 EA

EXIST. LOAD CENTER A
STA. 531+20.23, 110.19' RT.

EXIST. CONDUIT AND CONDUCTORS, CKT. A-3 TO REMAIN; CONDUCTORS CKT. A-1 AND A-2 TO BE REMOVED

EXIST. CONDUIT AND CONDUCTORS CKT. A-1 AND A-2 TO BE REMOVED

EXIST. CONDUIT AND CONDUCTORS TO REMAIN CKT. A-3

LA R/W LINE

RAMP A

EXIST. CONDUIT AND CONDUCTORS CKT. A-1 AND A-2 TO BE REMOVED

R/W LINE

LA R/W LINE

RAMP D

S65°27'59"E

S42°54'10"E

℄ CONST. RAMP D

℄ SURVEY US 41

SR 25 (US 41)

635-2-11	1 EA

630-2-11	1 RUN @ 5 LF	LTC
715-1-13	3#4: 63 LF	CKT. A-2

EXIST. 29P053, CKT. A-2
STA. 26+12.71
OFF. = 395.23' LT.
X = 2571074.43'
Y = 368320.88'

715-11-212	3 EA

EXIST. CONDUIT AND CONDUCTORS TO REMAIN, CKT. A-1 AND A-2

EXIST. 29P054, CKT. A-3
STA. 19+60.83
OFF. = 248.44' LT.
X = 2571682.20'
Y = 368043.19'

715-11-212	3 EA

BEGIN I-75 LIGHTING
MP 5.621

SR 93 (I-75) SOUTHBOUND

SR 93 (I-75) NORTHBOUND

EXIST. 29P049, CKT. A-2
STA. 24+81.07
OFF. = 49.12' LT.
X = 2571388.70'
Y = 368516.73'

715-11-212	3 EA

EXIST. 29P048, CKT. A-1
STA. 30+27.80
OFF. = 113.66' LT.
X = 2570914.41'
Y = 368796.24'

715-11-212	3 EA

EXIST. 29P050, CKT. A-1
STA. 15+74.74
OFF. = 111.37' RT.
X = 2572207.32'
Y = 368095.95'

715-11-212	3 EA

℄ CONST. RAMP B

RAMP B

N52°45'19"W

LA R/W LINE

MATCHLINE A

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REVISIONS			
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JACKSONVILLE, FL 32258

COLUMBIA CO BOCC

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 25	COLUMBIA	445725-5-54-02

LIGHTING PLAN (6)

SHEET NO. L-9

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MATCHLINE A

LA R/W LINE

℄ SURVEY US 41

N00°55'49"W

SR 25 (US 41)

N52°45'19"W

℄ CONST. RAMP B

RAMP B

N01°33'10"W

R/W LINE

℄ CONST. RAMP D

RAMP D

S47°47'59"E

LIGHTING CONDUIT AND CONDUCTORS TO REMAIN, CKT. B-3

LA R/W LINE

EXIST. 29P044, CKT. B-3
STA. 56+94.09
OFF. = 48.73' RT.
X = 2569503.01'
Y = 369188.24'
715-11-212 | 3 EA

SR 93 (I-75) SOUTHBOUND

EXIST. 29P045, CKT. B-4
STA. 64+07.55
OFF. = 66.46' LT.
X = 2570108.91'
Y = 368794.32'
715-11-212 | 3 EA

SR 93 (I-75) NORTHBOUND

715-1-60 | #4: 2442 LF

END I-75 LIGHTING
MP 6.063

EXIST. CONDUIT AND CONDUCTORS TO REMAIN, CKT. B-2, B-3, AND B-4

EXIST. CONDUIT AND CONDUCTORS TO BE REMOVED, CKT. B-2, B-3, AND B-4

℄ CONST. RAMP C

RAMP C

S89°18'42"W

LA R/W LINE

EXIST. 29P052, CKT. B-1
STA. 47+81.52
OFF. = 52.33' RT.
X = 2569980.67'
Y = 369167.26'
715-11-212 | 3 EA

EXIST. CONDUIT AND CONDUCTORS TO REMAIN, CKT. B-1

EXIST. LOAD CENTER B
STA. 541+45.45, 191.87' LT.

EXIST. CONDUIT AND CONDUCTORS TO REMAIN, CKT. B-2

EXIST. 29P046, CKT. B-2
STA. 535+58.09
OFF. = 203.98' LT.
X = 2570545.14'
Y = 368558.11'
715-11-212 | 3 EA

EXIST. 29P051, CHK. B-2
STA. 541+65.79
OFF. = 132.47' LT.
X = 2570606.04'
Y = 369165.43'
715-11-212 | 3 EA

SPEEDCO TRUCK LUBE AND TIRES

FOR DETAILS ON CONVENTIONAL LIGHTING AT THE RAMP TERMINAL INTERSECTIONS, SEE SHEETS LIGHTING PLAN (3) AND LIGHTING PLAN (4).

N

0 20 100
Feet

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REVISIONS			
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JACKSONVILLE, FL 32258

COLUMBIA CO BOCC

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 25	COLUMBIA	445725-5-54-02

LIGHTING PLAN (7)

SHEET NO. L-10

Exhibit "F"

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REPORT OF
GEOTECHNICAL INVESTIGATION

ROADWAY IMPROVEMENTS
I-75 (SR 93) AT SR 25 (US 41)
COLUMBIA COUNTY, FLORIDA
FPID: 445725-5-54-02

Prepared For:

OSIRIS 9 CONSULTING, LLC
13241 BARTRAM PARK BOULEVARD
SUITE 1109
JACKSONVILLE, FLORIDA 32258

Prepared By:

ENVIRONMENTAL AND GEOTECHNICAL SPECIALISTS, INC.
3772 KORI ROAD
JACKSONVILLE, FLORIDA 32257
(904) 329-7180

March 2025
364-13-24-01

March 21, 2025

EGS File: 364-13-24-01

Osiris 9 Consulting, LLC.
13241 Bartram Park Boulevard
Suite 1109
Jacksonville, Florida 32258

ATTN: Bryon Wuczynski, P.E.
Senior Engineer

SUBJECT: **Report of Geotechnical Investigation**
Roadway Improvements
I-75 (SR 93) at SR 25 (US 41)
Columbia County, Florida
FPID: 445725-5-54-02

Environmental and Geotechnical Specialists, Inc. (**EGS**) has completed the Report of Geotechnical Investigation, as authorized by Osiris 9 Consulting, LLC. (**OSIRIS**) and the Florida Department of Transportation (**FDOT**), for the proposed roadway widening at the I-75 (SR 93) and SR 25 (US 41) interchange in Columbia County, Florida. This Report includes a summary of the subsurface investigation conducted for this project, evaluation of field and laboratory test data, material classifications, groundwater measurements, geotechnical design recommendations, and construction considerations.

PROJECT AREA AND CONDITIONS

The project site is generally located along a segment of SR 25 (US 41), extending from just south of the intersection at SR 25 (US 41) and SW Howell Road and continuing along US 41 for approximately 0.5 miles, ending just north of the I-75 northbound on and off ramps to SR 25 (US 41). A Project Location Map has been provided as **Figure 1**.

Based on preliminary design files provided by **OSIRIS**, **EGS** understands the proposed roadway widening will occur along on both sides of the existing travel lanes of SR 25 (US 41), and along the northbound and southbound I-75 (SR 93) access ramps.

To facilitate review of the site conditions, a copy of the United States Geological Survey (**USGS**) Topographic Map contours and the Florida Geological Survey (**FGS**) mapped “Potential Karst Features” have been superimposed on a recent aerial of the project site, provided as **Figure 2**.

As depicted on the **Figures**, the general topography varies throughout the project limits with the ground surface elevation varying from approximately EL 65 feet to EL 100 feet. Based on review of existing water bodies, groundwater was not anticipated within 10 feet of existing grade; however, based on the likelihood of "plastic" soils in the area, temporary "perched" groundwater was anticipated.

*Additionally, it should be noted that mapped **FGS** "Potential Karst Features" exist along the proposed widening area between Baseline Survey Station 531+00 to 535+50, as well as within the general project vicinity. Therefore, variable subsoil and limestone conditions were expected within the study area. It should be noted that the **FGS** "Potential Karst Features" are based on aerial topographic imagery, and only provide information as to the possibility of karst conditions in a general area.*

Prior to installation of soil borings, **EGS** personnel performed a field review to observe the existing site conditions. Photographs collected by **EGS** which depict the existing site conditions are included as **Figures 3A** through **3D**. As shown on the photographs, the site conditions within the study area are generally comprised of cleared and maintained grass shoulders within the existing right of way, and intermittent commercial developments and sparse woodlands beyond the existing right of way.

SUBSURFACE INVESTIGATION

The subsurface investigation outlined in this Report was conducted by **EGS** in January 2025. Isabella Caporini, E.I., of **EGS** served as the Field and Staff Engineer and Matthew Landschoot, P.E., was the Senior Geotechnical Engineer of Record. Additional project oversight and quality assurance / quality control (**QA/QC**) was provided by Craig Dunkelberger P.E., Senior Geotechnical Engineer.

EGS installed a total of 41 soil borings for this subsurface investigation. Of these total soil borings, 29 Standard Penetration Test (**SPT**) soil borings were installed to depths ranging from approximately 10.5 to 20.0 feet below the existing ground surface using a combination of hand-auger and rotary drilling methods. To avoid possible impact to buried utilities at the **SPT** boring locations, hand-auger sampling techniques were used to a depth of 5.5 feet. **SPT**s were then conducted continuously to a depth of 12 feet and then continued on 2.5-foot intervals thereafter. The remaining 12 borings were installed to depths of approximately 5.5 feet below the existing ground surface using a hand-auger coupled with static Cone Penetrometer Index (**CPI**) performed at one (1) foot intervals. The **CPI** "**C**" values were converted to equivalent **SPT** "**N**" values using the correlation "**N**" = "**C**"/4.

Soil samples were collected, classified in the field by **EGS** personnel, sealed, and transported to **EGS**' Geotechnical Laboratory for testing. The laboratory tests included water contents, grain-size distributions, Atterberg limits, organic contents, and corrosion testing. The soils were classified with respect to the American Association of State Highway and Transportation Officials (**AASHTO**) Soil Classification System.

Additionally, **EGS** performed 2 pavement cores, labeled **OPC-1** and **OPC-2**, at the locations specified by **OSIRIS**, to verify the pavement layers at locations that were not cored during the recent **FDOT** pavement survey. The pavement cores were performed using **EGS**' pavement coring rotary drill in accordance with the **FDOT** *Materials Manual Section 3.2 – Flexible Pavement Coring and Evaluation*. After collection of each pavement core, **EGS** field personnel recorded the base material type underlying the surficial asphalt pavement. Detailed soil boring and pavement core location data have been provided in **TABLE 1** and **TABLE 2**, respectively, and a Soil Boring Location Map is included as **Figures 4A** through **4C**.

GENERAL SUBSURFACE CONDITIONS

Soils – A summary of the subsoils encountered and laboratory testing have been included in the *Roadway Soil Survey* Plan sheet included in **APPENDIX A**. Additionally, the soil borings have been depicted on the Soil Profiles provided as **Figures 5A** through **5C**. Detailed Soil Boring Logs and Soil Classification Data sheets have been provided in **APPENDICES B** and **C**, respectively.

The subsoils encountered below the proposed roadway widening areas primarily consist of "SELECT" Fine to Silty Fine Sands (**A-3**, **A-2-4** / **STRATA 1**, **2**, and **3**) underlain by "PLASTIC" (**A-2-6**, **A-2-7**, **A-6**, **A-7-6** / **STRATUM 4**) to "HIGHLY PLASTIC" soils (**A-2-7**, **A-7-6** / **STRATUM 5**). Additionally, surficial lenses of "SELECT" sands with "trace" organics (**2.5 ≤ Org% < 5.0** / **A-3**, **A-2-4** / **STRATUM 6**) and "ORGANIC" material (**5.0 ≤ Org% < 20.0** / **A-2-4** / **STRATUM 7**) were encountered intermittently along the project site.

Groundwater – To facilitate the use of groundwater data, the measured groundwater depths and estimated "normal" seasonal high groundwater depths encountered at each roadway soil boring have been included in **TABLE 1**. As indicated in the **TABLE**, measured and estimated "normal" seasonal high groundwater varies throughout the project limits from depths ranging from 1.5 feet to greater than (>) 5.5 feet below the existing grade. It should be noted that the surficial groundwater table will temporarily "perch" on the relatively shallow low-permeability clayey subsoils which exist; therefore, significant seasonal fluctuations of the surficial groundwater table should be expected. In addition to the groundwater summary provided in **TABLE 1**, the elevations of measured and

estimated "normal" seasonal high groundwater are shown graphically on the Soil Profiles provided as **Figures 5A** through **5C**.

Environmental Classification – As part of this study, **EGS** performed corrosion series testing on representative soil samples collected to determine the corrosion classification to be considered during design. These tests included soil resistivity, pH, sulfate content, and chloride content and were conducted in accordance with the appropriate *Florida Method* (**FM**) specification. Test results and environmental classifications for each sample have been summarized in **TABLE 3** and the *Roadway Soil Survey* Plan sheet provided in **APPENDIX A**.

NRCS Soil Survey – As part of this investigation, **EGS** reviewed the United States Department of Agriculture (**USDA**) Natural Resources Conservation Service (**NRCS**) Soil Survey of Columbia County, Florida. The soils reported in the **NRCS** Soil Survey are fairly consistent with the soils encountered during the field investigation. It should be noted, however, that the **NRCS** Soil Survey is used as an approximation of likely soils within the project area. Slight variations in soil properties will occur when comparing data from the **NRCS** Soil Survey and data obtained in the field. To correlate the properties summarized in the **NRCS** Soil Survey, **EGS** has provided **TABLE 4**, which includes the **NRCS** material number, name, and pertinent data for each material reported within the project limits. Additionally, **Figure D1**, as well as copies of select **TABLES** from the **NRCS** Soil Survey have been provided in **APPENDIX D**.

Pavement Cores – The detailed pavement core measurements, locations, and base material type are summarized in the standard format **FDOT** Pavement Evaluation Coring and Condition Data sheet provided as **TABLE 2**. In general, the asphalt encountered at the requested core locations varied in thickness from 2.7 to 3.6 inches. The existing layer thicknesses of each pavement type have been provided in **TABLE 2**. Additionally, limerock base was encountered beneath the asphalt layers at both pavement core locations. Photographs of the pavement cores collected have been included in **APPENDIX E**.

DESIGN RECOMMENDATIONS

Existing Soils – Based on a review of the soils encountered throughout the project and the soil definitions included in the ***FDOT*** *Standard Plans Index 120-001*, the following **STRATA** descriptions apply:

- **STRATA 1**, **2**, and **3** are "SELECT" soils. Due to the high fines content, **STRATUM 3** will likely retain moisture and may be difficult to compact when wet;
- **STRATUM 4** is a "PLASTIC" soil with a Liquid Limit less than 50 (LL<50);

- **STRATUM 5** is a "HIGHLY PLASTIC" soils with a Liquid Limit greater than or equal to 50 (LL≥50);
- **STRATUM 6** is a "SELECT" soil with an average organic content greater than 2.5 percent, but no individual value greater than 5.0 percent; and,
- **STRATUM 7** is an "ORGANIC" material with an average organic content greater than 5.0 percent, but no individual value greater than 20.0 percent.

Reuse of any materials excavated shall be in accordance with ***FDOT*** *Standard Plans Index 120-001.* Removal of any materials encountered shall be in accordance with ***FDOT*** *Standard Plans Index 120-002.*

Subsoil Excavation – As previously noted, surficial layers of "SELECT" soils with "trace" organics (**STRATUM 6**) and "ORGANIC" soils (**STRATUM 7**) were encountered within the project limits. As outlined on **FDOT** *Standard Plans Indices 120-001* and *120-002*, "SELECT" soils with an organic content greater than 2.5 percent but no individual value greater than 5 percent (**STRATUM 6**) are not permitted in the subgrade portion of the roadway and "ORGANIC" soils with an average organic content greater than 5 percent (**STRATUM 7**) must be excavated, unless otherwise authorized by the District Geotechnical Engineer. Additionally, **EGS believes** that subsoil excavation of "PLASTIC" material (**STRATUM 4**) may be needed within 24 inches of the bottom of the proposed base to avoid issues achieving compaction of proposed fill materials during construction.

The approximate lateral limits of subsoil excavation have been provided on **Figures 4A** through **4C** and the approximate vertical excavation limits have been provided graphically on the Soil Profiles provided as **Figures 5A** through **5C**. **EGS recommends** that the subsoil excavation limits be included in the Plans. **EGS** requests the opportunity to review the cross sections once they become available to confirm the limits of subsoil excavation.

Groundwater Impacts – Based on review of the groundwater data collected for this study, and the anticipated roadway design, **EGS believes** that 3 feet of clearance between the "normal" seasonal high groundwater and the bottom of the proposed base may be achievable, based on the final grade. The base clearance above the "normal" seasonal high groundwater should be verified on the design Roadway Cross Sections, once they are available.

If base clearance above "normal" seasonal high groundwater is found to be less than (<) 3 feet, **EGS recommends** the following be considered for pavement design:

- Use a moisture resistant Optional Base Group material such as Graded Aggregate Base (**GAB**) or Type B-12.5 (referred to as Black Base); and,

- Reducing the design Resilient Modulus as outlined in **FDOT**'s *Plans Preparation Manual* and the *Flexible Pavement Design Manual*.

EGS believes that perched groundwater may be encountered during the construction of this project. If construction and excavations are to occur below the water table, dewatering countermeasures in accordance with the ***FDOT*** *Standard Specifications for Road and Bridge Construction* should be considered prior to construction.

Slope Stability Considerations – Based on the subsurface conditions encountered, at the soil borings performed for this study, **EGS believes** side slopes of 3(H):1(V) or flatter will achieve an adequate factor of safety for global stability. **EGS cautions** that exposed side slopes steeper than 3(H):1(V) will be highly susceptible to surficial erosion following periods of heavy rainfall in areas of non-uniform stormwater runoff. Additionally, side slopes steeper than 3(H):1(V) may be very difficult to maintain using standard moving equipment. If side slopes steeper than 3(H):1(V) are required, **EGS** would be pleased to provide additional recommendations regarding an artificial geosynthetic layer or other permanent surface covering to protect the slope surface and retain vegetation.

CONSTRUCTION PLANS

EGS recommends the following be included in the Roadway Construction Plans:

- *Roadway Soil Survey* Geotechnical Plan Sheet included in **APPENDIX A**;
- Roadway Cross Sections – The soil borings installed for the roadway investigation should be placed on the *Roadway Cross Sections* using the electronic files provided with this Report. The approximate subsoil excavation limits should also be shown on the *Roadway Cross Sections*.

Due to the karst sensitive nature of the project vicinity, ***EGS recommends*** *the following note be added to the Plans:*

- ***Compaction shall be performed in "static" mode only.***

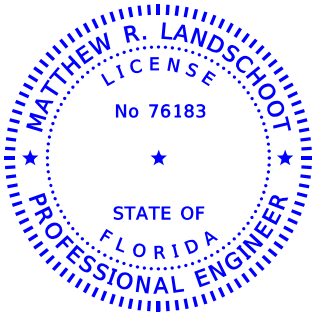
CLOSURE

The data and results presented in this Report of Geotechnical Investigation are intended for use by Osiris 9 Consulting, LLC. And the Florida Department of Transportation for the design of the roadway improvements along I-75 (SR 93) and SR 25 (US 41), identified herein. This data may not be used without the expressed written consent of Osiris 9 Consulting, LLC. and the Florida Department of Transportation. This Report is not intended for any other use and will likely not be applicable. This Report shall not be reproduced, except in full, without the written approval of Environmental and Geotechnical Specialists, Inc. The data and recommendations presented in this Report are based on the borings made at the specific locations and depths noted. Subsurface conditions at other locations may vary significantly from those presented herein. Should data become available which is different from the data presented herein, Environmental and Geotechnical Specialists, Inc. requests the opportunity to review the data and make any modifications to the design recommendations that may be appropriate.

If you have any questions concerning the information contained in this Report, please do not hesitate to call at (904) 329-7180.

Sincerely,

Environmental and Geotechnical Specialists, Inc.
Florida Certificate of Engineering Authorization 6222



Matthew R. Landschoot, PE
Senior Geotechnical Engineer
Florida PE No. 76183

Environmental and Geotechnical Specialists, Inc.
3772 Kori Drive
Jacksonville, FL 32257

This Report has been digitally signed and sealed by Matthew Landschoot 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.

TABLES

TABLE 1
SOIL BORING LOCATION & GROUNDWATER DATA
ROADWAY IMPROVEMENTS
I-75 (SR 93) AT SR 25 (US 41)
COLUMBIA COUNTY, FLORIDA

BORING NUMBER	DEPTH OF [1] SOIL BORING (FEET)	ELEVATION [2] (FEET)	STATION [2]	OFFSET [2] (FEET)	MEASURED GROUNDWATER [3]		ESTIMATED "NORMAL" SEASONAL HIGH GROUNDWATER [4]		GLOBAL POSITIONING SYSTEM (GPS) COORDINATES [5]			
					DEPTH [1] (FEET)	ELEVATION [2] (FEET)	DEPTH [1] (FEET)	ELEVATION [2] (FEET)	LATITUDE		LONGITUDE	
									DEG	MIN	DEG	MIN
SR 25 (US 41)												
ORW-1	10.5	85.5	519+72	37 RIGHT	> 10.5	< 75.0	6.0	79.5	29	59.716	82	35.832
ORW-2	20.0	85.3	520+72	22 RIGHT	> 20.0	< 65.3	5.0	80.3	29	59.733	82	35.835
ORW-3	5.5	82.9	523+89	77 LEFT	> 5.5	< 77.4	3.0	79.9	29	59.785	82	35.854
ORW-4	10.5	78.9	524+93	56 LEFT	> 10.5	< 68.4	3.0	75.9	29	59.802	82	35.850
ORW-5	10.5	76.7	525+93	56 LEFT	> 10.5	< 66.2	2.5	74.2	29	59.819	82	35.850
ORW-6	20.0	74.9	526+93	60 LEFT	> 20.0	< 54.9	3.0	71.9	29	59.835	82	35.851
ORW-7	10.5	71.1	529+93	67 LEFT	> 10.5	< 60.6	2.5	68.6	29	59.884	82	35.852
ORW-8	10.5	71.2	530+93	67 LEFT	> 10.5	< 60.7	4.0	67.2	29	59.901	82	35.852
ORW-9	5.5	71.7	532+93	66 LEFT	> 5.5	< 66.2	> 5.5	< 66.2	29	59.929	82	35.852
ORW-10	10.5	72.5	538+93	68 LEFT	> 10.5	< 62.0	5.0	67.5	30	0.033	82	35.852
ORW-11	20.0	70.6	539+92	89 LEFT	> 20.0	< 50.6	4.0	66.6	30	0.049	82	35.856
ORW-12	5.5	72.6	541+03	28 RIGHT	> 5.5	< 67.1	5.0	67.6	30	0.068	82	35.834
ORW-13	10.5	72.8	541+83	78 LEFT	> 10.5	< 62.3	4.0	68.8	30	0.081	82	35.854
ORW-14	20.0	73.2	541+83	30 RIGHT	> 20.0	< 53.2	4.0	69.2	30	0.081	82	35.834
I-75 SOUTHBOUND OFF RAMP												
ORW-15	10.5	70.2	531+73	119 LEFT	> 10.5	< 59.7	4.0	66.2	29	59.914	82	35.862
ORW-16	5.5	68.8	532+49	185 LEFT	> 5.5	< 63.3	3.0	65.8	29	59.927	82	35.874
ORW-17	10.5	71.6	533+61	217 LEFT	> 10.5	< 61.1	5.5	66.1	29	59.945	82	35.880
ORW-18	20.0	69.2	533+23	253 LEFT	> 20.0	< 49.2	3.5	65.7	29	59.939	82	35.887
ORW-19	5.5	69.8	533+87	322 LEFT	> 5.5	< 64.3	3.5	66.3	29	59.950	82	35.900
ORW-20	10.5	72.2	534+23	288 LEFT	> 10.5	< 61.7	4.0	68.2	29	59.955	82	35.894
ORW-21	20.0	71.4	534+46	376 LEFT	> 20.0	< 51.4	2.0	69.4	29	59.959	82	35.910
ORW-22	5.5	72.7	534+78	346 LEFT	> 5.5	< 67.2	2.0	70.7	29	59.965	82	35.905
I-75 NORTHBOUND OFF RAMP												
ORW-23	20.0	71.8	538+72	227 RIGHT	> 20.0	< 51.8	4.0	67.8	30	0.030	82	35.796
ORW-24	5.5	69.8	539+07	255 RIGHT	> 5.5	< 64.3	3.0	66.8	30	0.035	82	35.791
ORW-25	10.5	72.2	539+33	148 RIGHT	> 10.5	< 61.7	4.5	67.7	30	0.040	82	35.811
ORW-26	10.5	69.2	539+76	182 RIGHT	> 10.5	< 59.0	1.0	68.2	30	0.047	82	35.805
ORW-27	5.5	72.8	539+95	69 RIGHT	> 5.5	< 67.3	4.5	68.3	30	0.050	82	35.826
ORW-28	20.0	71.3	540+38	104 RIGHT	> 20.0	< 51.3	4.0	67.3	30	0.057	82	35.820
I-75 NORTHBOUND ON RAMP												
ORW-29	5.5	70.8	541+24	114 LEFT	> 5.5	< 65.3	4.0	66.8	30	0.071	82	35.861
ORW-30	10.5	71.4	540+63	186 LEFT	> 10.5	< 60.9	5.0	66.4	30	0.061	82	35.875
ORW-31	10.5	69.4	541+05	186 LEFT	> 10.5	< 58.9	3.0	66.4	30	0.068	82	35.875
ORW-32	20.0	71.2	540+63	286 LEFT	> 20.0	< 51.2	4.5	66.7	30	0.061	82	35.894

NOTES: 1. DEPTHS ARE MEASURED BELOW EXISTING GROUND SURFACE.

2. ELEVATION, STATION, AND OFFSETS ARE APPROXIMATE AND DETERMINED FROM ELECTRONIC FILES PROVIDED BY **OSIRIS 9**.

3. BASED ON 24-HOUR MEASURED GROUNDWATER VALUES ENCOUNTERED IN THE FIELD.

4. ESTIMATED "NORMAL" SEASONAL HIGH GROUNDWATER LIKELY EXISTS IN A TEMPORARY PERCHED CONDITION.

5. COORDINATES ARE APPROXIMATE AND BASED ON FIELD MEASUREMENTS AND MAPPING SOFTWARE.

TABLE 1
SOIL BORING LOCATION & GROUNDWATER DATA
ROADWAY IMPROVEMENTS
I-75 (SR 93) AT SR 25 (US 41)
COLUMBIA COUNTY, FLORIDA

BORING NUMBER	DEPTH OF [1] SOIL BORING	ELEVATION [2]	STATION [2]	OFFSET [2]	MEASURED GROUNDWATER [3]		ESTIMATED "NORMAL" SEASONAL HIGH GROUNDWATER [4]		GLOBAL POSITIONING SYSTEM (GPS) COORDINATES [5]			
					DEPTH [1]	ELEVATION [2]	DEPTH [1]	ELEVATION [2]	LATITUDE		LONGITUDE	
	(FEET)	(FEET)		(FEET)	(FEET)	(FEET)	(FEET)	(FEET)	DEG	MIN	DEG	MIN
I-75 NORTHBOUND ON RAMP (CONTINUED)												
ORW-33	5.5	68.9	541+07	286 LEFT	> 5.5	< 63.4	2.5	66.4	30	0.068	82	35.894
ORW-34	10.5	71.1	540+64	386 LEFT	> 10.5	< 60.6	5.0	66.1	30	0.061	82	35.912
ORW-35	10.5	69.0	541+09	387 LEFT	> 10.5	< 58.5	3.0	66.0	30	0.068	82	35.913
ORW-36	5.5	71.1	540+64	486 LEFT	> 5.5	< 65.6	> 5.5	< 65.6	30	0.061	82	35.931
ORW-37	20.0	68.8	541+05	488 LEFT	> 20.0	< 48.8	2.5	66.3	30	0.067	82	35.932
ORW-38	10.5	71.6	540+71	586 LEFT	> 10.5	< 61.1	5.5	66.1	30	0.062	82	35.950
ORW-39	5.5	69.4	541+18	587 LEFT	> 5.5	< 63.9	3.0	66.4	30	0.069	82	35.950
ORW-40	20.0	72.1	540+90	685 LEFT	> 20.0	< 52.1	5.5	66.6	30	0.065	82	35.969
ORW-41	10.5	70.0	541+32	686 LEFT	> 10.5	< 59.5	4.0	66.0	30	0.071	82	35.969

NOTES: 1. DEPTHS ARE MEASURED BELOW EXISTING GROUND SURFACE.

2. ELEVATION, STATION, AND OFFSETS ARE APPROXIMATE AND DETERMINED FROM ELECTRONIC FILES PROVIDED BY **OSIRIS 9**.

3. BASED ON 24-HOUR MEASURED GROUNDWATER VALUES ENCOUNTERED IN THE FIELD.

4. ESTIMATED "NORMAL" SEASONAL HIGH GROUNDWATER LIKELY EXISTS IN A TEMPORARY PERCHED CONDITION.

5. COORDINATES ARE APPROXIMATE AND BASED ON FIELD MEASUREMENTS AND MAPPING SOFTWARE.

TABLE 2

STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION

PAVEMENT EVALUATION CORING AND CONDITION DATA

675-030-09
Materials
3/13

Cored by: W. CHOMAT, ENVIRONMENTAL AND GEOTECHNICAL SPECIALISTS, INC. (EGS) Date: Page: 1 of 1 Typical Section No.: 1

Roadway Section:	29030000			Name:	SR 93 (I-75) AT SR 25 (US 41 / US 441)				Lanes:	2 TO 4 LANES	
Fin. Proj. ID:	445725-5-54-02			From:	NORTH OF SR 93				Shoulder Type and Condition:		
F. A. Proj. No.:				To:	SW HOWELL ROAD				Inside:	NONE	
County:	COLUMBIA	SR No.:	SR 25 (US 41)	Beg MP:	10.234	End MP:	9.899	Lgth: 0.335	Outside:	PAVED	
Median Curbed (Y / N):	Y	(X) Paved		(X) Lawn		Other:			Curb & Gutter (Y / N):		N

Core No.	Station	Offset	Pavement Layer (in.)				Base (in.)[1]	Crack				Pvmt Cond	Rut Depth (in.)	Cross Slope (%)	Cross Slope Direct.	PROJECT COMMENTS
			Top FC12.5	SP12.5	BIND	Core Lgth. (in.)	LR	Depth (in.)	Type	Class	Extent					
1	532+39	58 LEFT	1.2	1.5	0.9	3.6	- -									
2	527+59	52 LEFT	1.4	1.3		2.7	- -									

NOTES: 1. DASHES INDICATE BASE WAS ENCOUNTERED BUT THICKNESS WAS NOT MEASURED.

TABLE 3
ENVIRONMENTAL CLASSIFICATION DATA
ROADWAY IMPROVEMENTS
I-75 (SR 93) TO SR 25 (US 41)
COLUMBIA COUNTY, FLORIDA

STRATUM NUMBER [1]	BORING NUMBER	DEPTH [2] (FEET)	pH	RESISTIVITY (OHM-CM)	SULFATES (PPM)	CHLORIDES (PPM)	CLASSIFICATION [3]	
							STEEL	CONCRETE
2	ORW-1	2.0 - 4.5	6.8	7,200	15	< 1	**MODERATELY AGGRESSIVE**	**SLIGHTLY AGGRESSIVE**
	ORW-8	2.0 - 4.5	6.8	8,200	15	30	**MODERATELY AGGRESSIVE**	**SLIGHTLY AGGRESSIVE**
	ORW-15	2.0 - 4.5	6.9	2,900	30	93	**MODERATELY AGGRESSIVE**	**MODERATELY AGGRESSIVE**
	ORW-29	2.0 - 4.0	7.2	4,800	20	66	**MODERATELY AGGRESSIVE**	**SLIGHTLY AGGRESSIVE**
4	ORW-22	2.0 - 4.0	7.1	3,400	15	9	**MODERATELY AGGRESSIVE**	**SLIGHTLY AGGRESSIVE**

NOTES: 1. SEE **APPENDIX A** FOR STRATUM NUMBERS AND DESCRIPTIONS.

2. DEPTH IS MEASURED BELOW EXISTING GROUND SURFACE.

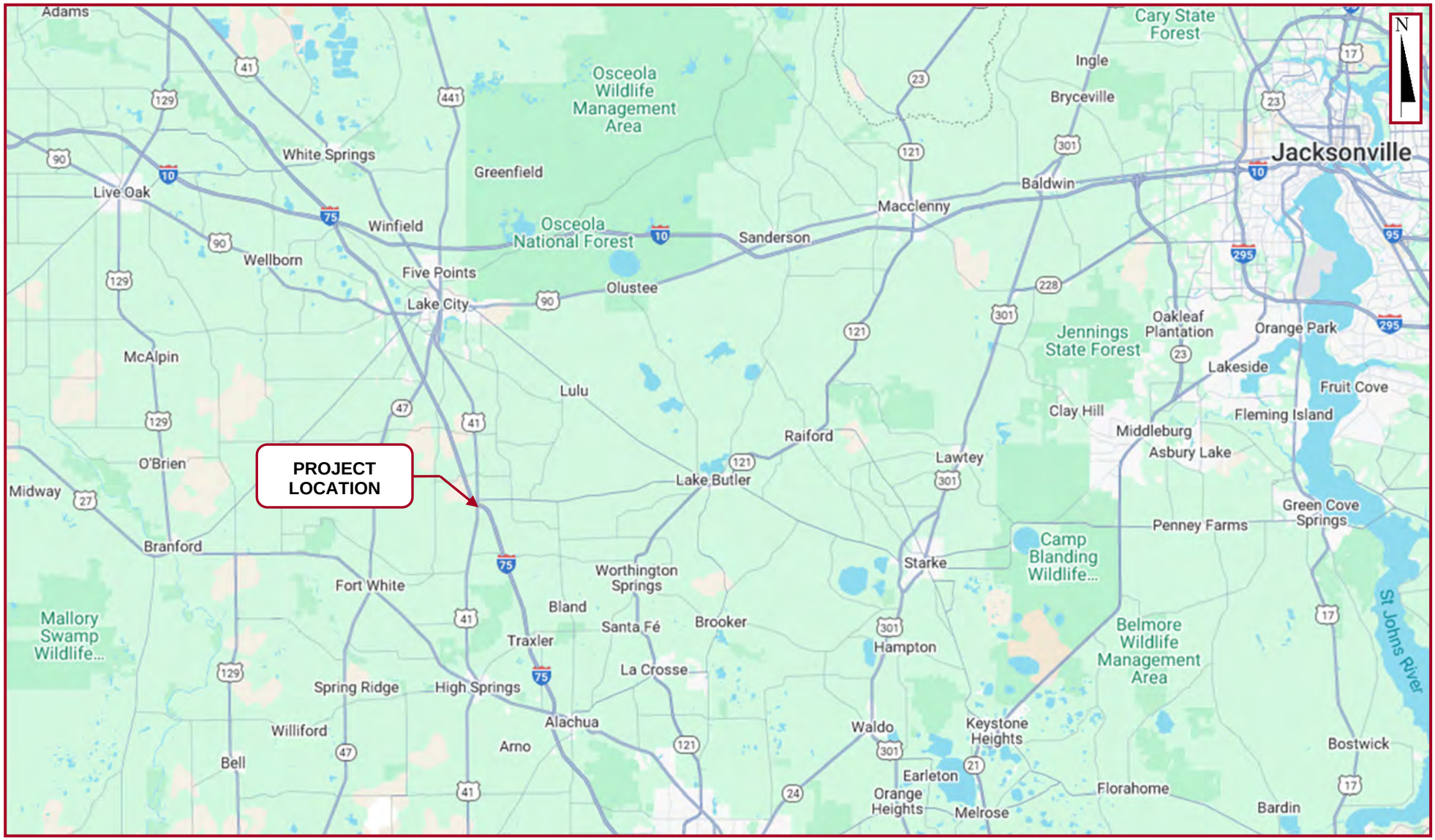
3. CLASSIFICATIONS IN ACCORDANCE WITH ***FDOT*** *STRUCTURES DESIGN GUIDELINES TABLE 1.3.2-1*

TABLE 4
NRCS SOIL SURVEY DATA
ROADWAY IMPROVEMENTS
I-75 (SR 93) TO SR 25 (US 41)
COLUMBIA COUNTY, FLORIDA

MATERIAL REFERENCE NUMBER	BORING NUMBER	MATERIAL NAME	DEPTH (INCHES)	MATERIAL DESCRIPTION	MATERIAL CLASSIFICATION		REACTION (pH)	CORROSION POTENTIAL		DEPTH TO SEASONAL HIGH GROUNDWATER (FEET)
					UNIFIED	AASHTO		UNCOATED STEEL	CONCRETE	
8	ORW-1 to ORW-41	BLANTON FINE SAND, 0 TO 5 PERCENT SLOPES	0 - 7	FINE SAND	SM, SP-SM	A-2-4, A-3	4.5 - 5.5	LOW	HIGH	3.5 - 6.0
			7 - 52	FINE SAND	SM, SP-SM	A-2-4, A-3	4.5 - 5.5			
			52 - 80	FINE SANDY LOAM, SANDY CLAY LOAM, SANDY LOAM	SC-SM, SC, CL	A-2-4, A-6	4.5 - 5.5			
13	- -	BONNEAU FINE SAND, 2 TO 5 PERCENT SLOPES	0 - 7	FINE SAND	SC-SM, SM	A-2-4	4.5 - 6.0	MODERATE	MODERATE	3.5 - 5.0
			7 - 27	FINE SAND	SC-SM, SP-SM	A-3, A-2-4	4.5 - 6.0			
			27 - 80	SANDY CLAY, FINE SANDY LOAM, SANDY CLAY LOAM	CL, SC	A-2-6, A-2-4, A-7-6	4.5 - 6.0			
43	- -	ORANGEBURG LOAMY FINE SAND 2 TO 5 PERCENT SLOPES	0 - 8	LOAMY FINE SAND	SM	A-2	4.5 - 5.5	MODERATE	HIGH	- -
			8 - 13	SANDY LOAM, LOAMY FINE SAND	SM	A-2	4.5 - 5.5			
			13 - 51	SANDY CLAY LOAM, SANDY LOAM	CL, SC, SC-SM, SM	A-4, A-6	4.5 - 5.5			
			51 - 80	SANDY CLAY LOAM, SANDY CLAY	CL, SC	A-4, A-6, A-7	4.5 - 5.5			

NOTES: 1. BASED ON THE NRCS SOIL SURVEY REPORT FOR COLUMBIA COUNTY, FLORIDA.
2. SEE **APPENDIX D** FOR DETAILED NRCS SOIL SURVEY INFORMATION.

FIGURES



DRAWN: B. NAUGHTON, E.I.	CHECKED: I. CAPORINI, E.I.	Environmental & Geotechnical Specialists, Inc. 3227 Kori Road Jacksonville, Florida 32257 Office: (904) 329-7180	TITLE: PROJECT LOCATION MAP ROADWAY IMPROVEMENTS I-75 (SR 93) AT SR 25 (US 41) COLUMBIA COUNTY, FLORIDA	
ENGINEER: M. LANDSCHOOT, P.E.				
CLIENT: OSIRIS 9 CONSULTING, LLC				
PROJ. NO.: 364-13-24-01	SCALE: NOT TO SCALE		DATE: FEBRUARY 2025	FIGURE NO.: 1

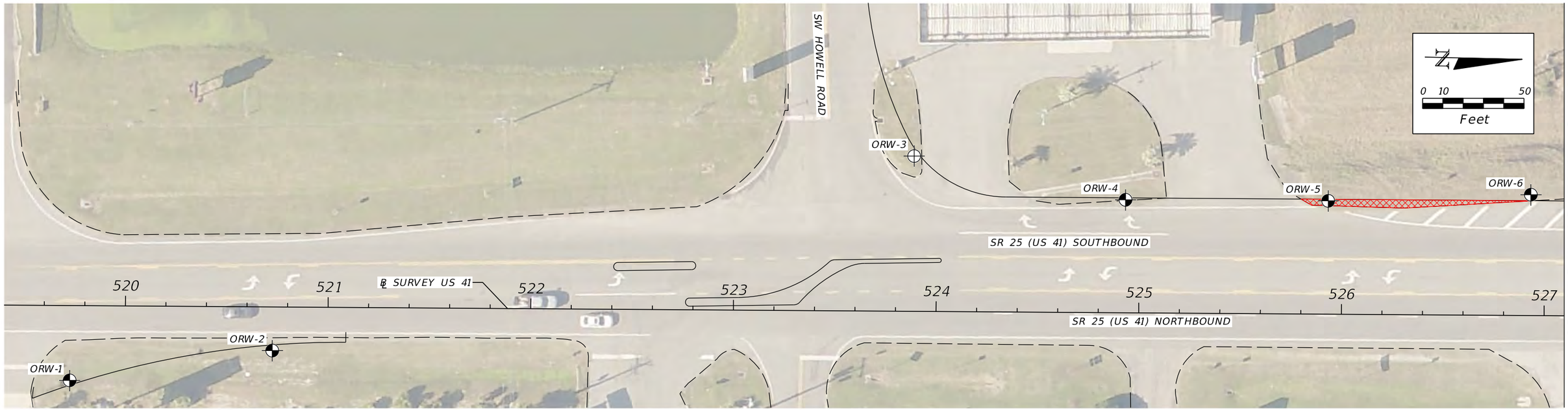
DRAWN: B. NAUGHTON, E.I.	CHECKED: I. CAPORINI, E.I.	Environmental and Geotechnical Specialists, Inc. 3772 Kori Road Jacksonville, Florida 32257 Office: (904) 329-7180	TITLE: USGS TOPOGRAPHIC MAP ROADWAY IMPROVEMENTS I-75 (SR 93) AT SR 25 (US 41) COLUMBIA COUNTY, FLORIDA
ENGINEER: M. LANDSCHOOT, P.E.			
CLIENT: OSIRIS 9 CONSULTING, LLC			
PROJ. NO.: 364-13-24-01	SCALE: AS SHOWN		DATE: MARCH 2025 / FIGURE NO.: 2

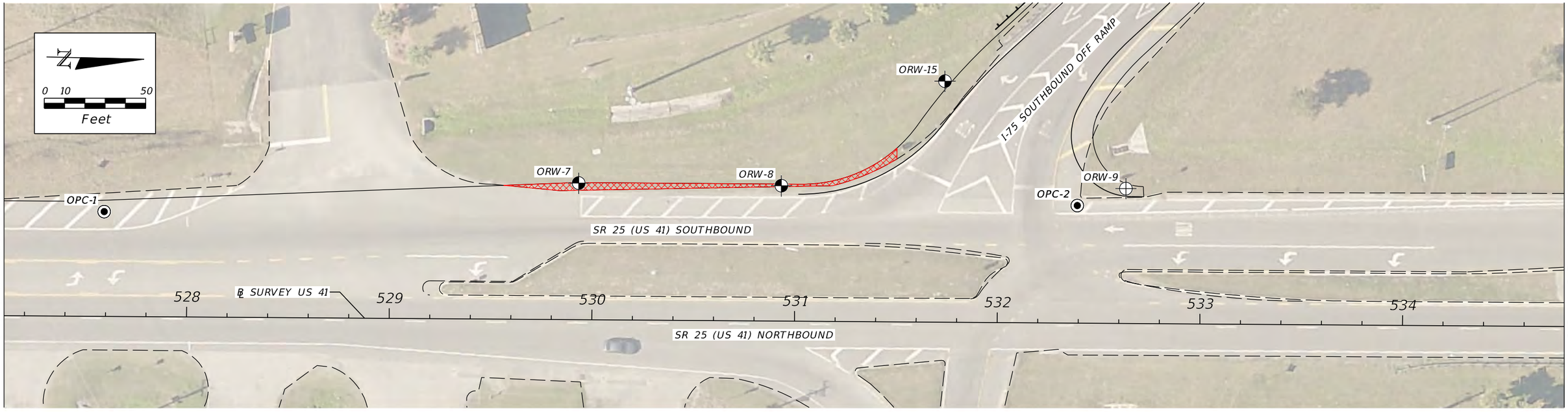
FIGURE 3A: PHOTOGRAPH OF EXISTING SITE CONDITIONS NEAR SOIL BORING **ORW-1** (FACING NORTH)

FIGURE 3B: PHOTOGRAPH OF EXISTING SITE CONDITIONS NEAR SOIL BORING **ORW-21** (FACING SOUTHEAST)

FIGURE 3C: PHOTOGRAPH OF EXISTING SITE CONDITIONS NEAR SOIL BORING **ORW-24** (FACING NORTHWEST)

FIGURE 3D: PHOTOGRAPH OF EXISTING SITE CONDITIONS NEAR SOIL BORING **ORW-29** (FACING SOUTH)





LEGEND

- SPT SOIL BORING LOCATION
- HAND AUGER SOIL BORING LOCATION
- PAVEMENT CORE LOCATION
- APPROXIMATE LIMITS OF SUBSOIL EXCAVATION

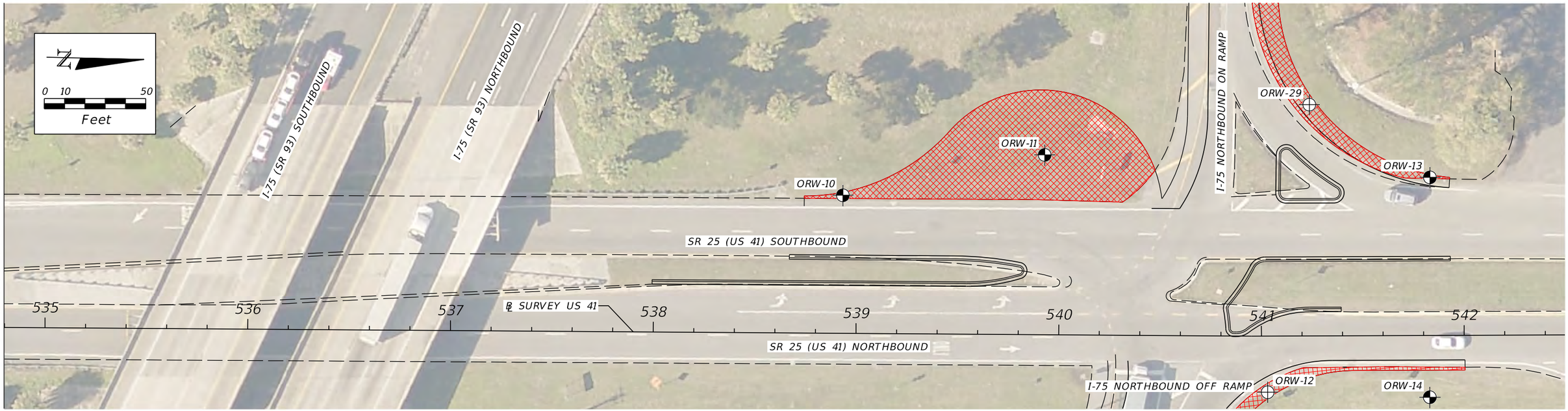
PREPARED:	B. NAUGHTON, E.I.
CHECKED:	I. CAPORINI, E.I.
REVISED:	B. NAUGHTON, E.I.
ENGINEER:	M. LANDSCHOOT, P.E.

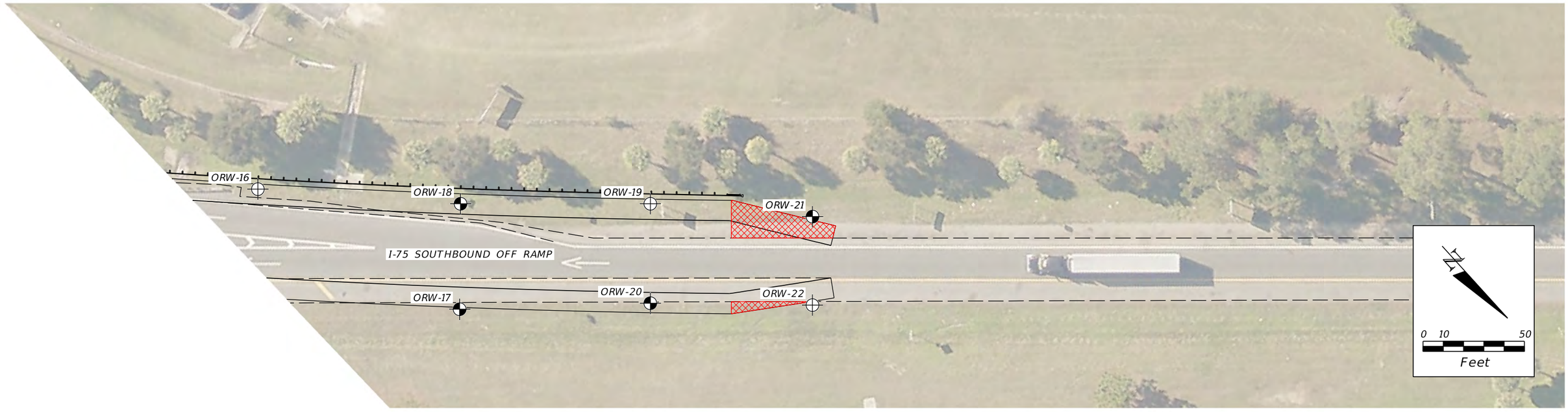
Environmental and Geotechnical Specialists, Inc.
3772 Kori Road
Jacksonville, Florida 32257
Office: (904) 329-7180

SOIL BORING LOCATION MAP
ROADWAY IMPROVEMENTS
I-75 (SR 93) AT SR 25 (US 41)
COLUMBIA COUNTY, FLORIDA

SCALE:	AS SHOWN	DATE:	MARCH 2025
PROJ. NO.:	364-13-24-01	FIGURE NO.:	4A

MATCHLINE STA. 534+80





LEGEND

- SPT SOIL BORING LOCATION
- HAND AUGER SOIL BORING LOCATION
- PAVEMENT CORE LOCATION
- APPROXIMATE LIMITS OF SUBSOIL EXCAVATION

PREPARED:	B. NAUGHTON, E.I.
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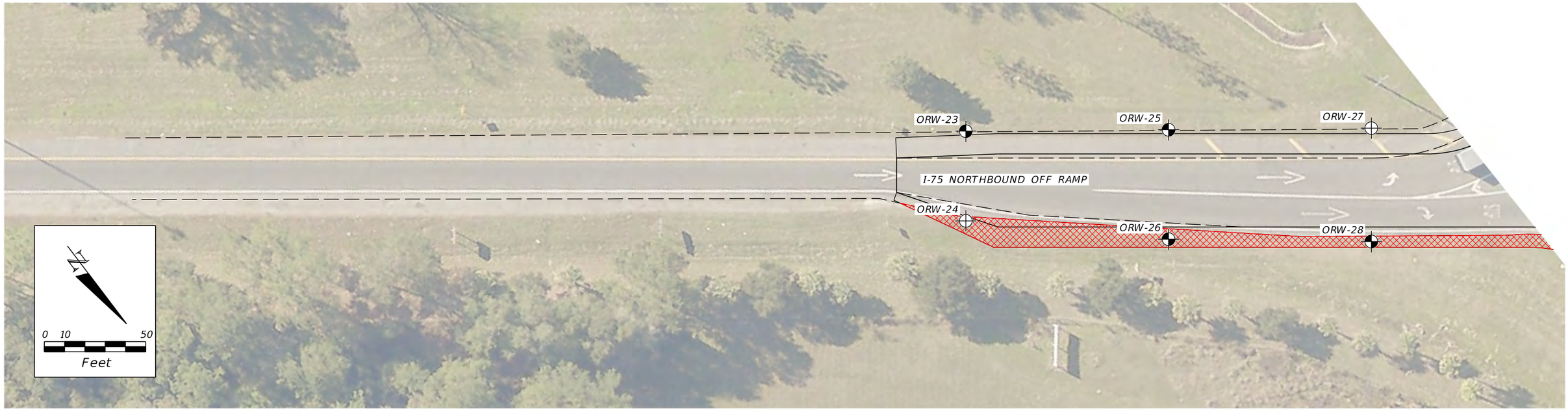
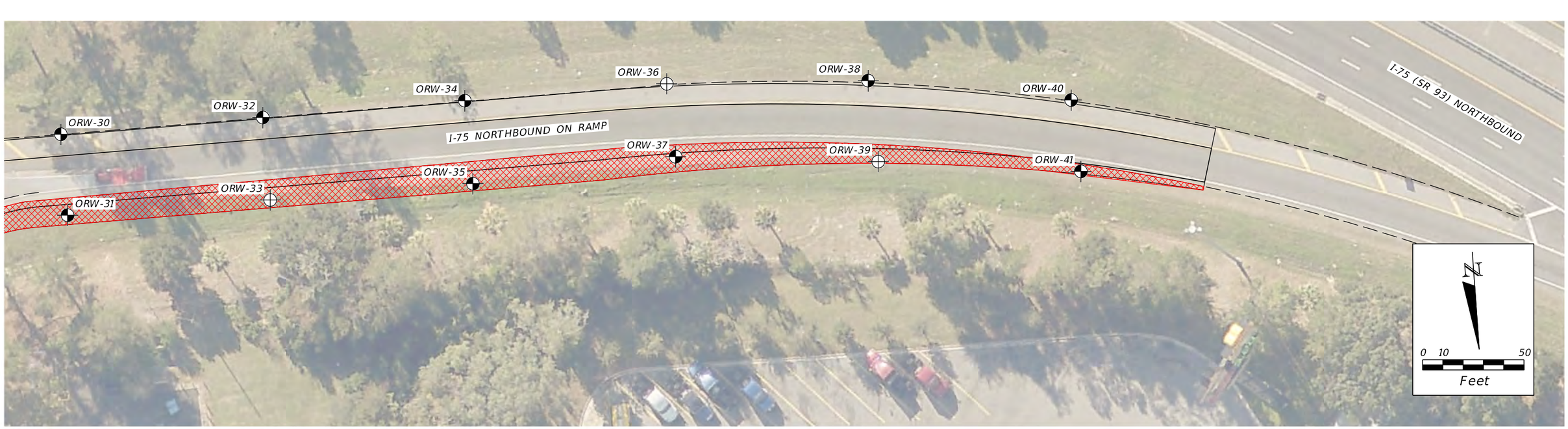
SOIL BORING LOCATION MAP
ROADWAY IMPROVEMENTS
I-75 (SR 93) AT SR 25 (US 41)
COLUMBIA COUNTY, FLORIDA

SCALE:	AS SHOWN	DATE:	MARCH 2025
PROJ. NO.:	364-13-24-01	FIGURE NO.:	4B





LEGEND

- SPT SOIL BORING LOCATION
- HAND AUGER SOIL BORING LOCATION
- PAVEMENT CORE LOCATION
- APPROXIMATE LIMITS OF SUBSOIL EXCAVATION

PREPARED:	B. NAUGHTON, E.I.
CHECKED:	I. CAPORINI, E.I.
REVISED:	B. NAUGHTON, E.I.
ENGINEER:	M. LANDSCHOOT, P.E.

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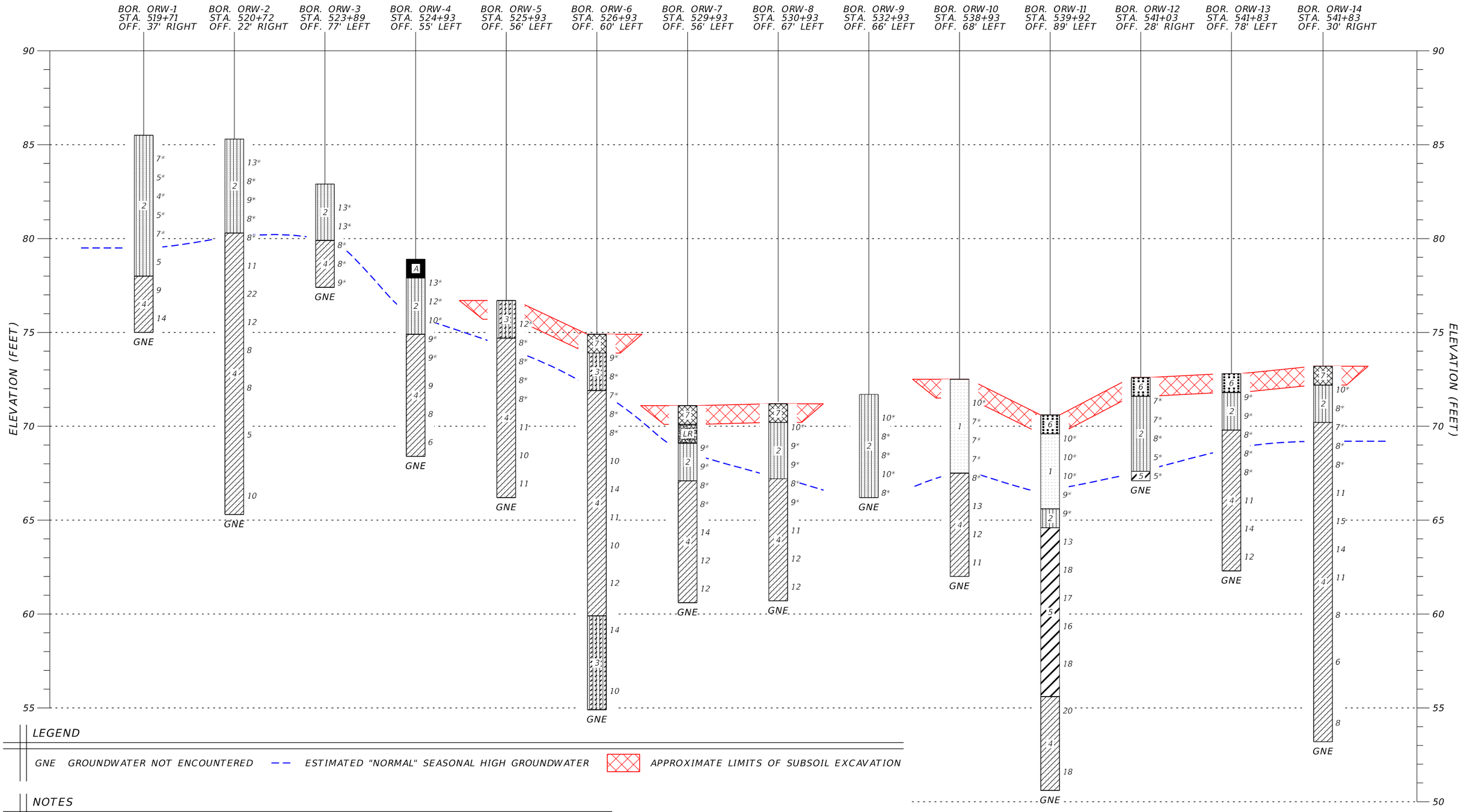
SOIL BORING LOCATION MAP
ROADWAY IMPROVEMENTS
I-75 (SR 93) AT SR 25 (US 41)
COLUMBIA COUNTY, FLORIDA

SCALE:	AS SHOWN	DATE:	MARCH 2025
PROJ. NO.:	364-13-24-01	FIGURE NO.:	4C

SR 25 (US 41)



LEGEND

GNE GROUNDWATER NOT ENCOUNTERED — — ESTIMATED "NORMAL" SEASONAL HIGH GROUNDWATER APPROXIMATE LIMITS OF SUBSOIL EXCAVATION

NOTES

1. PROFILES ARE NOT HORIZONTALLY SCALED.
2. NUMBERS IN CENTER OF BORINGS INDICATE THE SOIL STRATUM NUMBER.
3. MATERIAL PROPERTIES OF EACH SOIL STRATUM ARE PROVIDED IN THE ROADWAY SOIL SURVEY IN APPENDIX A.
4. SEE CLASSIFICATION DATA SHEETS FOR DETAILED STRATUM PROPERTIES IN APPENDIX C.
5. NUMBERS TO THE RIGHT OF BORING INDICATE EQUIVALENT STANDARD PENETRATION TEST (SPT) N-VALUES OR EQUIVALENT VALUES FOR 12-INCH PENETRATION.
6. ELEVATIONS ARE APPROXIMATE AND DETERMINED FROM ELECTRONIC FILES PROVIDED BY OSIRIS 9.
7. ASTERISK (*) INDICATES EQUIVALENT SPT N-VALUES CONVERTED FROM CONE PENETROMETER INDEX (CPI) VALUES.

PREPARED:	B. NAUGHTON, E.I.
CHECKED:	I. CAPORINI, E.I.
REVISED:	B. NAUGHTON, E.I.
ENGINEER:	M. LANDSCHOOT, P.E.

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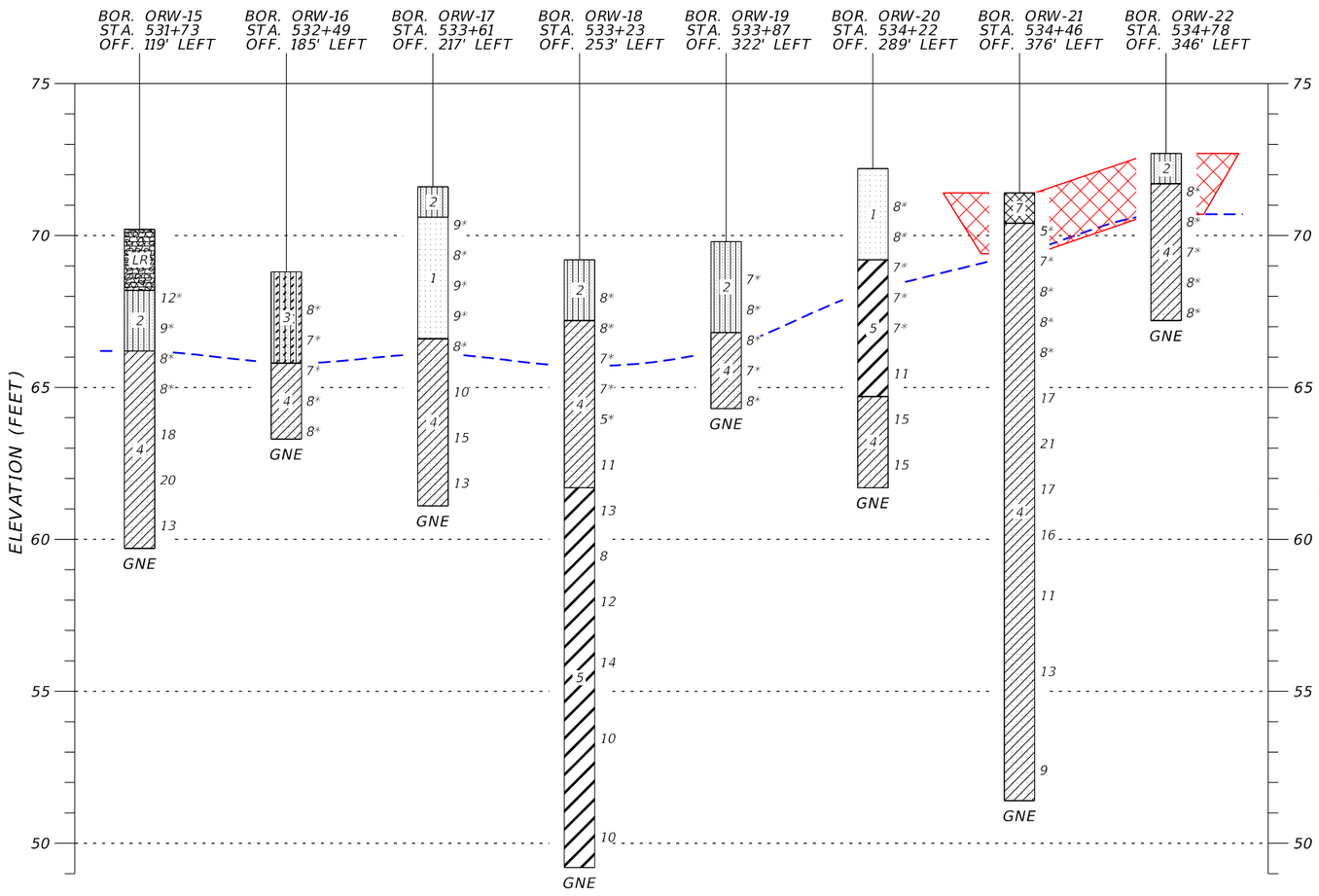
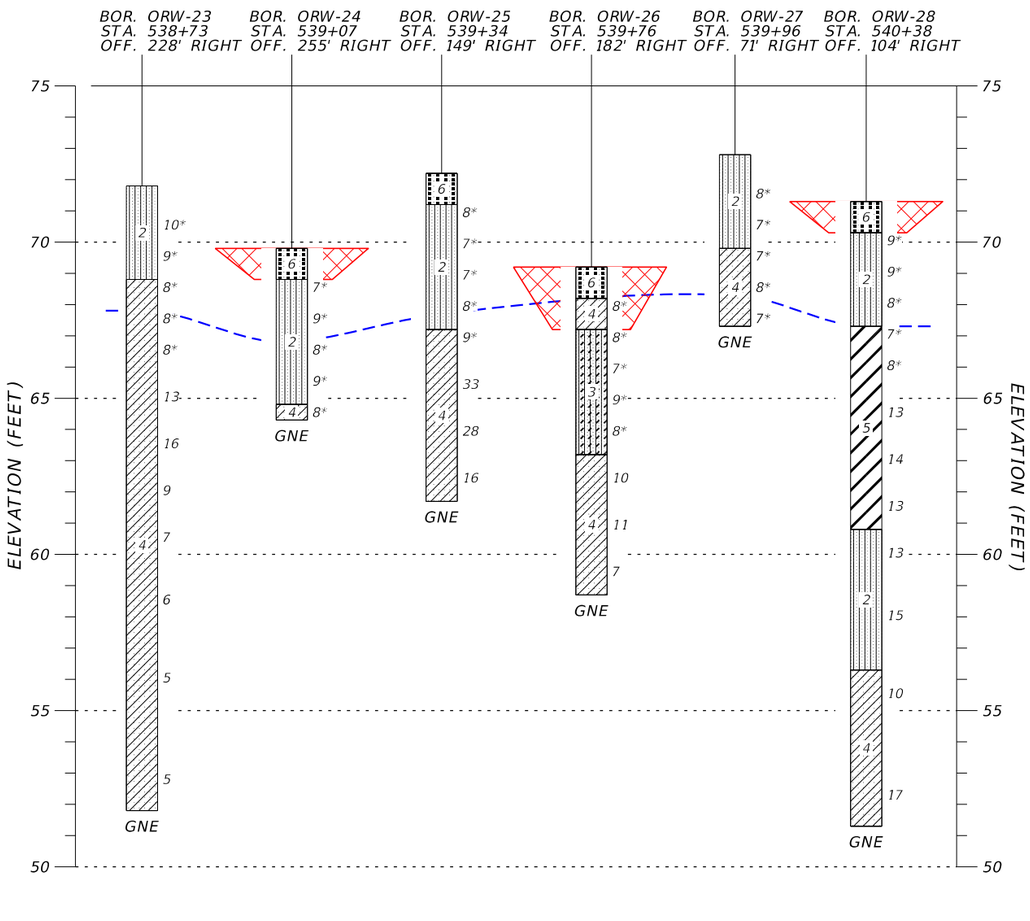
SOIL PROFILES
ROADWAY IMPROVEMENTS
I-75 (SR 93) AT SR 25 (US 41)
COLUMBIA COUNTY, FLORIDA

SCALE:	AS SHOWN	DATE:	MARCH 2025
PROJ. NO.:	364-13-24-01	FIGURE NO.:	5A

I-75 SOUTHBOUND OFF RAMP



I-75 NORTHBOUND OFF RAMP



LEGEND

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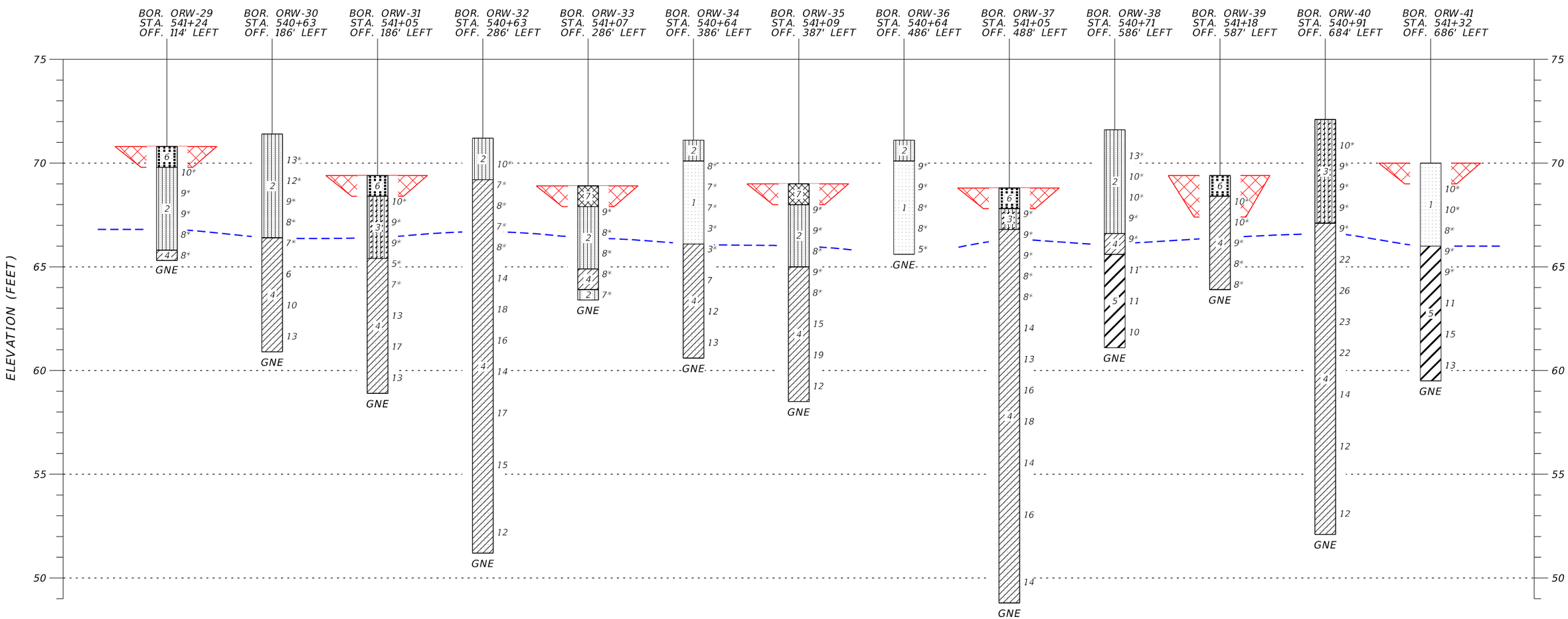
I-75 (SR 93) AT SR 25 (US 41)
COLUMBIA COUNTY, FLORIDA

SCALE:	AS SHOWN	DATE:	MARCH 2025
PROJ. NO.:	364-13-24-01	FIGURE NO.:	5B

I-75 NORTHBOUND ON RAMP



LEGEND

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3772 Kori Road
Jacksonville, Florida 32257
Office: (904) 329-7180

SOIL PROFILES
ROADWAY IMPROVEMENTS
I-75 (SR 93) AT SR 25 (US 41)
COLUMBIA COUNTY, FLORIDA

SCALE:	AS SHOWN	DATE:	MARCH 2025
PROJ. NO.:	364-13-24-01	FIGURE NO.:	5C

APPENDIX A

ROADWAY SOIL SURVEY

DATE OF SURVEY: JANUARY 2025
SURVEY MADE BY: ENVIRONMENTAL AND GEOTECHNICAL SPECIALISTS, INC.
SUBMITTED BY: MATTHEW R. LANDSCHOOT

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION
MATERIALS AND RESEARCH

DISTRICT: TWO
ROAD NO.: SR 25 (US 41)
COUNTY: COLUMBIA

PROJECT NAME: SR 25 (US 41) ROADWAY IMPROVEMENTS

FINANCIAL PROJECT ID: 445725-5-54-02

CROSS SECTION SOIL SURVEY FOR THE DESIGN OF ROADS

SURVEY BEGINS STA.: 519+72 SURVEY ENDS STA.: 543+78

REFERENCE: ℄ SURVEY US 41

	ORGANIC CONTENT		MOISTURE CONTENT		SIEVE ANALYSIS RESULTS % PASS						ATTERBERG LIMITS (%)					
STRATUM NO.	NO. OF TESTS	% ORGANIC	NO. OF TESTS	% MOISTURE	NO. OF TESTS	10 MESH	40 MESH	60 MESH	100 MESH	200 MESH	NO. OF TESTS	LIQUID LIMIT	PLASTIC INDEX	AASHTO GROUP	COLOR	DESCRIPTION
1	3	0.9-2.0	29	3-17	7	98-100	93-97	76-81	30-42	8-10	--	--	--	A-3	GRAY	FINE SAND
2	23	0.3-2.0	90	1-21	22	84-100	76-100	62-88	37-82	12-19	--	--	--	A-2-4	GRAY, ORANGE	SILTY FINE SAND (<20% PASING NO. 200)
3	3	1.1-1.6	22	4-33	8	89-100	77-100	68-100	45-82	20-35	--	--	--	A-2-4	GRAY, ORANGE	SILTY FINE SAND (>20% PASSING NO. 200)
4	--	--	185	10-83	42	98-100	89-100	69-98	34-89	20-64	29	26-49	12-34	A-2-6,A-2-7, A-6,A-7-6	BROWN, GRAY, ORANGE	CLAYEY FINE SAND, CLAYEY SAND, PLASTIC CLAYEY FINE SAND, PLASTIC CLAYEY SAND
5	--	--	29	18-41	6	100	99-100	91-99	52-86	30-58	7	53-100	32-92	A-2-7, A-7-6	GRAY, ORANGE	HIGHLY PLASTIC CLAYEY SAND HIGHLY PLASTIC CLAYEY FINE SAND, HIGHLY PLASTIC SANDY CLAY
6	11	2.5-4.7	11	3-35	--	--	--	--	--	--	--	--	--	A-3, A-2-4	DARK GRAY	FINE SAND WITH ORGANICS, SILTY FINE SAND WITH ORGANICS
7	7	5.0-17.1	7	5-23	1	81	71	63	45	22	--	--	--	A-2-4	DARK GRAY	ORGANIC SILTY FINE SAND
A	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	ASPHALT
LR	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	LIMEROCK BASE

CORROSION TEST RESULTS

NO. OF TESTS	RESISTIVITY ohms-cm	CHLORIDE ppm	SULFATES ppm	pH
--	--	--	--	--
4	2,900-8,200	<1-93	15-30	6.8-7.2
--	--	--	--	--
1	3,400	9	15	7.1
--	--	--	--	--
--	--	--	--	--
--	--	--	--	--
--	--	--	--	--
--	--	--	--	--

EMBANKMENT AND SUBGRADE MATERIAL

STRATA BOUNDARIES ARE APPROXIMATE. MAKE FINAL CHECK AFTER GRADING.

▽ - ESTIMATED SEASONAL HIGH GROUNDWATER LEVEL

GNE - GROUNDWATER NOT ENCOUNTERED

STRATUM NOTES

1. STRATA 1, 2, AND 3 ARE "SELECT" SOILS. DUE TO THE HIGH FINES CONTENT, STRATUM 3 WILL RETAIN MOISTURE AND MAY BE DIFFICULT TO COMPACT WHEN WET.
2. STRATUM 4 IS A "PLASTIC" SOIL WITH AN AVERAGE LIQUID LIMIT LESS THAN 50.
3. STRATUM 5 IS A "HIGHLY PLASTIC" SOIL WITH AN AVERAGE LIQUID LIMIT GREATER THAN 50.
4. STRATUM 6 IS A "SELECT" SOIL WITH AN AVERAGE ORGANIC CONTENT GREATER THAN 2.5 PERCENT, BUT NO INDIVIDUAL VALUE GREATER THAN 5.0 PERCENT.
5. STRATUM 7 IS AN "ORGANIC" SOIL WITH AN AVERAGE ORGANIC CONTENT GREATER THAN 5.0 PERCENT, BUT NO INDIVIDUAL VALUE GREATER THAN 20.0 PERCENT.
6. STRATUM A IS ASPHALT BASE.
7. STRATUM LR IS LIMEROCK BASE.
8. REUSE OF THESE STRATA SHALL BE IN ACCORDANCE WITH FDOT STANDARD PLANS INDEX 120-001.
9. REMOVAL OF THESE STRATA SHALL BE IN ACCORDANCE WITH FDOT STANDARD PLANS INDEX 120-002.

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

ENGINEER OF RECORD
MATTHEW R. LANDSCHOOT, P.E.
LICENSE NUMBER: 76183
ENVIRONMENTAL AND GEOTECHNICAL SPECIALISTS, INC.
3772 KORI ROAD
JACKSONVILLE, FLORIDA 32257

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 25	COLUMBIA	445725-5-54-02

ROADWAY SOIL SURVEY

SHEET NO.

THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.

APPENDIX B

SOIL BORING LOGS

ENVIRONMENTAL & GEOTECHNICAL SPECIALISTS, INC.
3772 Kori Road
Jacksonville, Florida 32257
Office: (904) 329-7180

PROJECT: I-75 (SR 93) AT SR 25 (US 41) **HAMMER TYPE:** AUTOMATIC
CLIENT: OSIRIS 9 CONSULTING, LLC **STATION:** 519+72
PROJECT NO.: 364-13-24-01 **OFFSET:** 37 FEET RIGHT
PROJECT LOCATION: COLUMBIA COUNTY, FLORIDA **ELEVATION (FEET):** 85.5
BORING NO.: ORW-1 **DATE:** 01/07/2025
DRILLER: W. CHOMAT **FLUID LOSS:** NONE
DEPTH TO WATER (FEET): INITIAL: ▽ >10.5 **24 HR:** ▽ >10.5 **CASING DEPTH (FEET):** NONE

DEPTH (METERS)	DEPTH (FEET)	SAMPLE	SYMBOL	DESCRIPTION	AASHTO	TEST RESULTS	Wc (%)	N
0	0						5	--
						-200%=13	3	7
	2						3	5
1				LOOSE GRAY SILTY FINE SAND	A-2-4		3	4
	4						2	5
							7	7
2	6			LOOSE BROWN AND ORANGE CLAYEY FINE SAND	A-2-6	-200%=34 LL=27 PI=12	15	5
	8			MEDIUM DENSE BROWN AND ORANGE CLAYEY FINE SAND	A-2-6		17	9
3	10						18	14
	12							
4								
	14							

Wc (%) scale: 10, 20, 30, 40, 60
N-Value scale: 10, 20, 30, 40, 60, 80

This information pertains only to this boring and should not be interpreted as being indicitive of the site.

NOTES: N/M MEANS NOT MEASURED
N/A MEANS NOT AVAILABLE

ENVIRONMENTAL & GEOTECHNICAL SPECIALISTS, INC.

3772 Kori Road
Jacksonville, Florida 32257
Office: (904) 329-7180

PROJECT: I-75 (SR 93) AT SR 25 (US 41) **HAMMER TYPE:** AUTOMATIC
CLIENT: OSIRIS 9 CONSULTING, LLC **STATION:** 520+72
PROJECT NO.: 364-13-24-01 **OFFSET:** 22 FEET RIGHT
PROJECT LOCATION: COLUMBIA COUNTY, FLORIDA **ELEVATION (FEET):** 85.3
BORING NO.: ORW-2 **DATE:** 01/07/2025
DRILLER: W. CHOMAT **FLUID LOSS:** NONE
DEPTH TO WATER (FEET): INITIAL: ▽ >20.0 **24 HR:** ▽ >20.0 **CASING DEPTH (FEET):** NONE

DEPTH (METERS)	DEPTH (FEET)	SAMPLE	SYMBOL	DESCRIPTION	AASHTO	TEST RESULTS	Wc (%)	N
0	0			MEDIUM DENSE GRAY SILTY FINE SAND	A-2-4	-200%=18	7	--
							5	13
	2			LOOSE GRAY SILTY FINE SAND	A-2-4		4	8
1				MEDIUM DENSE GRAY SILTY FINE SAND	A-2-4		4	9
	4			LOOSE GRAY SILTY FINE SAND	A-2-4		9	8
				LOOSE GRAY AND ORANGE CLAYEY SAND	A-6		17	8
2	6			MEDIUM DENSE GRAY AND ORANGE CLAYEY SAND	A-6	-200%=41 LL=38 PI=18	19	11
	8						20	22
3							26	12
	10			LOOSE GRAY AND ORANGE CLAYEY SAND	A-6		26	8
	12							
4							24	8
	14							

Wc (%) axis: 10, 20, 30, 40, 60
N-Value axis: 10, 20, 30, 40, 60, 80

NOTES: N/M MEANS NOT MEASURED
N/A MEANS NOT AVAILABLE

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3772 Kori Road
Jacksonville, Florida 32257
Office: (904) 329-7180

PROJECT: I-75 (SR 93) AT SR 25 (US 41) **HAMMER TYPE:** AUTOMATIC
CLIENT: OSIRIS 9 CONSULTING, LLC **STATION:** 520+72
PROJECT NO.: 364-13-24-01 **OFFSET:** 22 FEET RIGHT
PROJECT LOCATION: COLUMBIA COUNTY, FLORIDA **ELEVATION (FEET):** 85.3
BORING NO.: ORW-2 **DATE:** 01/07/2025
DRILLER: W. CHOMAT **FLUID LOSS:** NONE
DEPTH TO WATER (FEET): INITIAL: ▽ >20.0 **24 HR:** ▽ >20.0 **CASING DEPTH (FEET):** NONE

DEPTH (METERS)	DEPTH (FEET)	SAMPLE	SYMBOL	DESCRIPTION	AASHTO	TEST RESULTS	Wc (%)	N	N-Value
5	16			LOOSE GRAY AND ORANGE CLAYEY FINE SAND	A-2-6	-200%=31	26	5	
	18			MEDIUM DENSE GRAY AND ORANGE CLAYEY FINE SAND	A-2-6		30	10	
6	20								
	22								
7	24								
	26								
8	28								

Wc (%): 10 20 30 40 60

N-Value: 10 20 30 40 60 80

NOTES: N/M MEANS NOT MEASURED
N/A MEANS NOT AVAILABLE

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PROJECT: I-75 (SR 93) AT SR 25 (US 41) **HAMMER TYPE:** AUGER
CLIENT: OSIRIS 9 CONSULTING, LLC **STATION:** 523+89
PROJECT NO.: 364-13-24-01 **OFFSET:** 77 FEET LEFT
PROJECT LOCATION: COLUMBIA COUNTY, FLORIDA **ELEVATION (FEET):** 82.9
BORING NO.: ORW-3 **DATE:** 01/09/2025
DRILLER: H. WILLIAMS **FLUID LOSS:** NONE
DEPTH TO WATER (FEET): INITIAL: ▽ >5.5 **24 HR:** ▼ >5.5 **CASING DEPTH (FEET):** NONE

DEPTH (METERS)	DEPTH (FEET)	SAMPLE	SYMBOL	DESCRIPTION	AASHTO	TEST RESULTS	Wc (%)	N	N-Value
0	0						4	--	--
				MEDIUM DENSE GRAY SILTY FINE SAND	A-2-4	-200%=18	4	13	13
	2						6	13	13
1				LOOSE GRAY CLAYEY FINE SAND	A-2-6	-200%=27 LL=32 PI=18	17	8	8
	4			LOOSE GRAY CLAYEY SAND	A-6		24	8	8
							21	9	9
2	6								
	8								
3	10								
	12								
4	14								

Wc (%) axis: 10, 20, 30, 40, 60
N-Value axis: 10, 20, 30, 40, 60, 80

NOTES: N/M MEANS NOT MEASURED
N/A MEANS NOT AVAILABLE

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ENVIRONMENTAL & GEOTECHNICAL SPECIALISTS, INC.

3772 Kori Road
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Office: (904) 329-7180

PROJECT: I-75 (SR 93) AT SR 25 (US 41) **HAMMER TYPE:** AUTOMATIC
CLIENT: OSIRIS 9 CONSULTING, LLC **STATION:** 524+93
PROJECT NO.: 364-13-24-01 **OFFSET:** 55 FEET LEFT
PROJECT LOCATION: COLUMBIA COUNTY, FLORIDA **ELEVATION (FEET):** 78.9
BORING NO.: ORW-4 **DATE:** 01/09/2024
DRILLER: H. WILLIAMS **FLUID LOSS:** NONE
DEPTH TO WATER (FEET): INITIAL: ▽ >10.5 **24 HR:** ▽ >10.5 **CASING DEPTH (FEET):** NONE

DEPTH (METERS)	DEPTH (FEET)	SAMPLE	SYMBOL	DESCRIPTION	AASHTO	TEST RESULTS	Wc (%)	N
0	0			ASPHALT BASE	--		--	--
	2			MEDIUM DENSE GRAY SILTY FINE SAND	A-2-4	-200%=14	6	13
						ORG%= 0.9	8	12
1						ORG%= 1.4	11	10
	4			MEDIUM DENSE GRAY PLASTIC CLAYEY FINE SAND	A-2-7	-200%=30 LL=44 PI=28	19	9
							21	9
2	6						23	9
	8			LOOSE GRAY PLASTIC CLAYEY FINE SAND	A-2-7		18	8
3	10						16	6
	12							
4								
	14							

Wc (%) scale: 10, 20, 30, 40, 60
N-Value scale: 10, 20, 30, 40, 60, 80

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N/A MEANS NOT AVAILABLE

ENVIRONMENTAL & GEOTECHNICAL SPECIALISTS, INC.
3772 Kori Road
Jacksonville, Florida 32257
Office: (904) 329-7180

PROJECT: I-75 (SR 93) AT SR 25 (US 41) **HAMMER TYPE:** AUTOMATIC
CLIENT: OSIRIS 9 CONSULTING, LLC **STATION:** 525+93
PROJECT NO.: 364-13-24-01 **OFFSET:** 56 FEET LEFT
PROJECT LOCATION: COLUMBIA COUNTY, FLORIDA **ELEVATION (FEET):** 76.7
BORING NO.: ORW-5 **DATE:** 01/08/2025
DRILLER: H. WILLIAMS **FLUID LOSS:** NONE
DEPTH TO WATER (FEET): INITIAL: ▽ >10.5 **24 HR:** ▼ >10.5 **CASING DEPTH (FEET):** NONE

DEPTH (METERS)	DEPTH (FEET)	SAMPLE	SYMBOL	DESCRIPTION	AASHTO	TEST RESULTS	Wc (%)	N
0	0			MEDIUM DENSE GRAY SILTY FINE SAND	A-2-4	-200%=20	4	--
							11	12
	2			LOOSE GRAY AND ORANGE CLAYEY FINE SAND	A-2-6	-200%=33 LL=37 PI=20	21	8
1							26	8
	4						29	8
							27	8
	6			MEDIUM DENSE GRAY AND ORANGE CLAYEY FINE SAND	A-2-6		31	11
2								
	8						20	10
3	10						19	11
	12							
4								
	14							

Wc (%) axis: 10, 20, 30, 40, 60
N-Value axis: 10, 20, 30, 40, 60, 80

This information pertains only to this boring and should not be interpreted as being indicitive of the site.

NOTES: N/M MEANS NOT MEASURED
N/A MEANS NOT AVAILABLE

ENVIRONMENTAL & GEOTECHNICAL SPECIALISTS, INC.

3772 Kori Road
Jacksonville, Florida 32257
Office: (904) 329-7180

PROJECT: I-75 (SR 93) AT SR 25 (US 41) | **HAMMER TYPE:** AUTOMATIC
CLIENT: OSIRIS 9 CONSULTING, LLC | **STATION:** 526+93
PROJECT NO.: 364-13-24-01 | **OFFSET:** 60 FEET LEFT
PROJECT LOCATION: COLUMBIA COUNTY, FLORIDA | **ELEVATION (FEET):** 74.9
BORING NO.: ORW-6 | **DATE:** 01/08/2025
DRILLER: W. CHOMAT | **FLUID LOSS:** NONE
DEPTH TO WATER (FEET): INITIAL: ▽ >20.0 **24 HR:** ▽ >20.0 | **CASING DEPTH (FEET):** NONE

DEPTH (METERS)	DEPTH (FEET)	SAMPLE	SYMBOL	DESCRIPTION	AASHTO	TEST RESULTS	Wc (%)	N
0	0			MEDIUM DENSE DARK GRAY ORGANIC SILTY FINE SAND	A-2-4	ORG%= 5.3	5	--
	2			MEDIUM DENSE GRAY SILTY FINE SAND	A-2-4	-200%=22 ORG%= 1.6	6	9
						ORG%= 1.1	9	8
1	4			LOOSE GRAY AND ORANGE CLAYEY FINE SAND	A-2-6	-200%=29 LL=38 PI=23	21	7
							18	8
2	6						21	8
	8						21	10
3	10			MEDIUM DENSE GRAY AND ORANGE CLAYEY FINE SAND	A-2-6		21	14
							21	11
4	12						24	10
	14						25	12

Wc (%) scale: 10, 20, 30, 40, 60
N-Value scale: 10, 20, 30, 40, 60, 80

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NOTES: N/M MEANS NOT MEASURED
N/A MEANS NOT AVAILABLE

ENVIRONMENTAL & GEOTECHNICAL SPECIALISTS, INC.

3772 Kori Road
Jacksonville, Florida 32257
Office: (904) 329-7180

PROJECT: I-75 (SR 93) AT SR 25 (US 41) **HAMMER TYPE:** AUTOMATIC
CLIENT: OSIRIS 9 CONSULTING, LLC **STATION:** 526+93
PROJECT NO.: 364-13-24-01 **OFFSET:** 60 FEET LEFT
PROJECT LOCATION: COLUMBIA COUNTY, FLORIDA **ELEVATION (FEET):** 74.9
BORING NO.: ORW-6 **DATE:** 01/08/2025
DRILLER: W. CHOMAT **FLUID LOSS:** NONE
DEPTH TO WATER (FEET): INITIAL: ▽ >20.0 **24 HR:** ▽ >20.0 **CASING DEPTH (FEET):** NONE

DEPTH (METERS)	DEPTH (FEET)	SAMPLE	SYMBOL	DESCRIPTION	AASHTO	TEST RESULTS	Wc (%)	N	N-Value
5	16			MEDIUM DENSE GRAY SILTY FINE SAND	A-2-4	-200%=30	30	14	
6	18						27	10	
	20								
7	22								
	24								
8	26								
	28								

Wc (%): 10 20 30 40 60
N-Value: 10 20 30 40 60 80

NOTES: N/M MEANS NOT MEASURED
N/A MEANS NOT AVAILABLE

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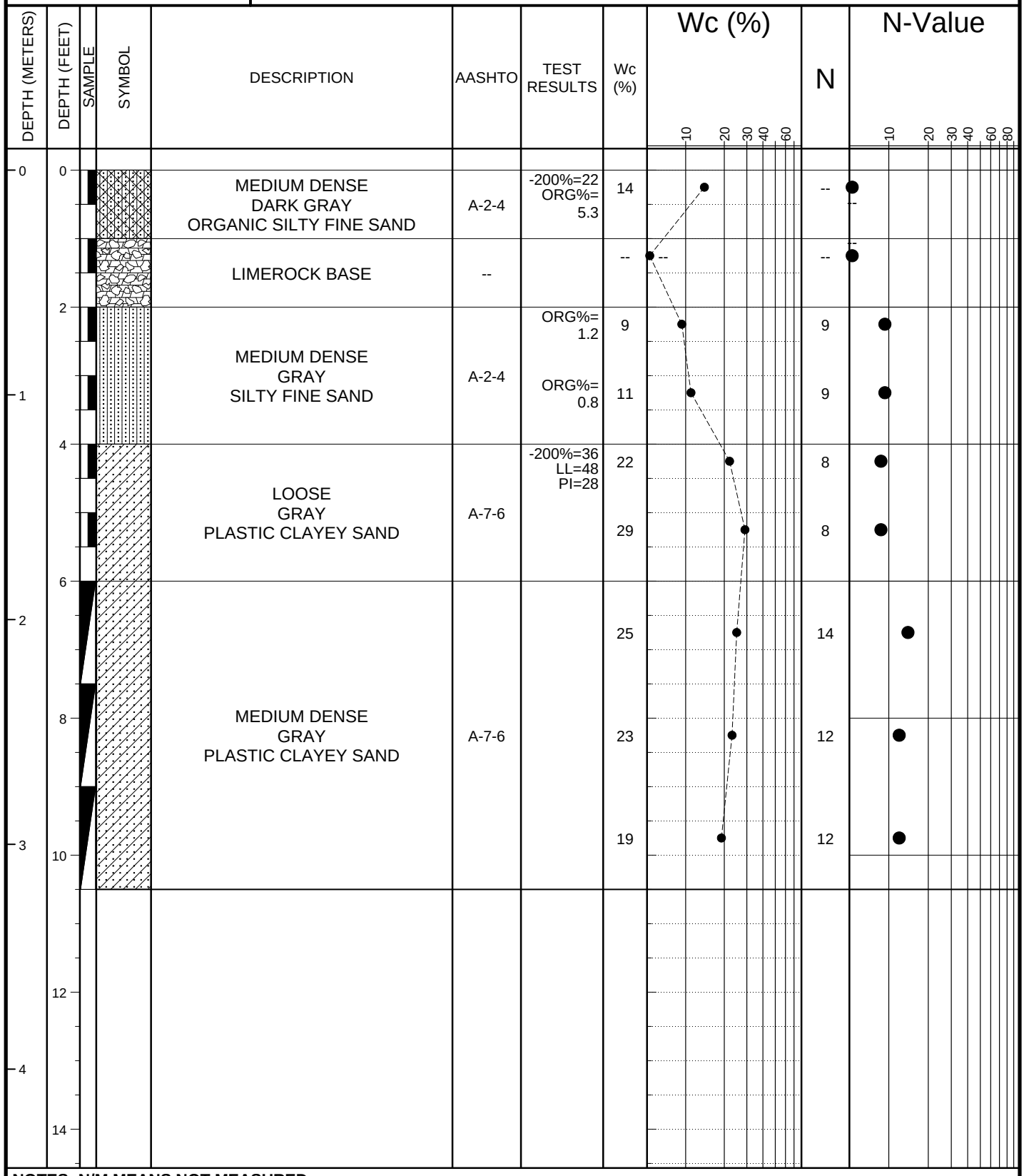
PROJECT: I-75 (SR 93) AT SR 25 (US 41) **HAMMER TYPE:** AUTOMATIC
CLIENT: OSIRIS 9 CONSULTING, LLC **STATION:** 529+93
PROJECT NO.: 364-13-24-01 **OFFSET:** 67 FEET LEFT
PROJECT LOCATION: COLUMBIA COUNTY, FLORIDA **ELEVATION (FEET):** 71.1
BORING NO.: ORW-7 **DATE:** 01/08/2025
DRILLER: H. WILLIAMS **FLUID LOSS:** NONE
DEPTH TO WATER (FEET): INITIAL: ▽ >10.5 **24 HR:** ▽ >10.5 **CASING DEPTH (FEET):** NONE



NOTES: N/M MEANS NOT MEASURED
N/A MEANS NOT AVAILABLE

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PROJECT: I-75 (SR 93) AT SR 25 (US 41) **HAMMER TYPE:** AUTOMATIC
CLIENT: OSIRIS 9 CONSULTING, LLC **STATION:** 530+93
PROJECT NO.: 364-13-24-01 **OFFSET:** 67 FEET LEFT
PROJECT LOCATION: COLUMBIA COUNTY, FLORIDA **ELEVATION (FEET):** 71.2
BORING NO.: ORW-8 **DATE:** 01/08/2025
DRILLER: H. WILLIAMS **FLUID LOSS:** NONE
DEPTH TO WATER (FEET): INITIAL: ▽ >10.5 **24 HR:** ▽ >10.5 **CASING DEPTH (FEET):** NONE

DEPTH (METERS)	DEPTH (FEET)	SAMPLE	SYMBOL	DESCRIPTION	AASHTO	TEST RESULTS	Wc (%)	N
0	0			MEDIUM DENSE DARK GRAY ORGANIC SILTY FINE SAND	A-2-4	ORG%= 5.4	22	-- --
						-200%=16 ORG%= 0.8	9	10
	2			MEDIUM DENSE GRAY SILTY FINE SAND	A-2-4		13	9
1							12	9
	4			LOOSE GRAY AND ORANGE CLAYEY SAND	A-6		24	8
				MEDIUM DENSE GRAY AND ORANGE CLAYEY SAND	A-6		19	9
2	6					-200%=32 LL=46 PI=28	21	11
	8			MEDIUM DENSE GRAY AND ORANGE PLASTIC CLAYEY FINE SAND	A-2-7		20	12
3	10						22	12
	12							
4								
	14							

Wc (%) scale: 10 20 30 40 60
N-Value scale: 10 20 30 40 60 80

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NOTES: N/M MEANS NOT MEASURED
N/A MEANS NOT AVAILABLE

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Office: (904) 329-7180

PROJECT: I-75 (SR 93) AT SR 25 (US 41) **HAMMER TYPE:** AUGER
CLIENT: OSIRIS 9 CONSULTING, LLC **STATION:** 532+93
PROJECT NO.: 364-13-24-01 **OFFSET:** 66 FEET LEFT
PROJECT LOCATION: COLUMBIA COUNTY, FLORIDA **ELEVATION (FEET):** 71.7
BORING NO.: ORW-9 **DATE:** 01/08/2025
DRILLER: H. WILLIAMS **FLUID LOSS:** NONE
DEPTH TO WATER (FEET): INITIAL: ▽ >5.5 **24 HR:** ▼ >5.5 **CASING DEPTH (FEET):** NONE

DEPTH (METERS)	DEPTH (FEET)	SAMPLE	SYMBOL	DESCRIPTION	AASHTO	TEST RESULTS	Wc (%)	N	N-Value
0	0								
							2	--	--
						-200%=19	3	10	
	2						4	8	
1				LOOSE GRAY SILTY FINE SAND	A-2-4		3	8	
	4						4	10	
							5	8	
2	6								
	8								
3	10								
	12								
4	14								

Wc (%) scale: 10 20 30 40 60
N-Value scale: 10 20 30 40 60 80

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NOTES: N/M MEANS NOT MEASURED
N/A MEANS NOT AVAILABLE

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PROJECT: I-75 (SR 93) AT SR 25 (US 41) **HAMMER TYPE:** AUGER
CLIENT: OSIRIS 9 CONSULTING, LLC **STATION:** 538+93
PROJECT NO.: 364-13-24-01 **OFFSET:** 68 FEET LEFT
PROJECT LOCATION: COLUMBIA COUNTY, FLORIDA **ELEVATION (FEET):** 72.5
BORING NO.: ORW-10 **DATE:** 1/08/2025
DRILLER: H. WILLIAMS **FLUID LOSS:** NONE
DEPTH TO WATER (FEET): INITIAL: ▽ >10.5 **24 HR:** ▽ >10.5 **CASING DEPTH (FEET):** NONE

DEPTH (METERS)	DEPTH (FEET)	SAMPLE	SYMBOL	DESCRIPTION	AASHTO	TEST RESULTS	Wc (%)	N
0	0					ORG%= 2.0	8	--
						-200%=10 ORG%= 0.9	7	10
	2			MEDIUM DENSE GRAY FINE SAND	A-3		11	7
1							14	7
	4						9	7
				LOOSE ORANGE CLAYEY FINE SAND	A-2-6	-200%=29 LL=33 PI=16	18	8
	6							
2							24	13
	8			MEDIUM DENSE ORANGE CLAYEY FINE SAND	A-2-6		21	12
3	10						27	11
	12							
4								
	14							

Wc (%): 10 20 30 40 60
N-Value: 10 20 30 40 60 80

NOTES: N/M MEANS NOT MEASURED
N/A MEANS NOT AVAILABLE

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Office: (904) 329-7180

PROJECT: I-75 (SR 93) AT SR 25 (US 41) | **HAMMER TYPE:** AUTOMATIC
CLIENT: OSIRIS 9 CONSULTING, LLC | **STATION:** 539+92
PROJECT NO.: 364-13-24-01 | **OFFSET:** 89 FEET LEFT
PROJECT LOCATION: COLUMBIA COUNTY, FLORIDA | **ELEVATION (FEET):** 70.6
BORING NO.: ORW-11 | **DATE:** 01/08/2025
DRILLER: H. WILLIAMS | **FLUID LOSS:** NONE
DEPTH TO WATER (FEET): INITIAL: ▽ >20.0 **24 HR:** ▽ >20.0 **CASING DEPTH (FEET):** NONE

DEPTH (METERS)	DEPTH (FEET)	SAMPLE	SYMBOL	DESCRIPTION	AASHTO	TEST RESULTS	Wc (%)	N
0	0			MEDIUM DENSE DARK GRAY FINE SAND WITH ORGANICS	A-3	ORG%= 2.9	3	--
						-200%=10 ORG%= 1.4	5	10
	2						4	10
1				MEDIUM DENSE GRAY FINE SAND	A-3		3	10
	4						7	9
				MEDIUM DENSE GRAY AND ORANGE SILTY FINE SAND	A-2-4		17	9
2	6					-200%=58 LL=74 PI=54	29	13
	8						29	18
3							29	17
	10			VERY STIFF GRAY AND ORANGE HIGHLY PLASTIC SANDY CLAY	A-7-6		29	16
	12							
4							30	18
	14							

Wc (%) scale: 10, 20, 30, 40, 60
N-Value scale: 10, 20, 30, 40, 60, 80

NOTES: N/M MEANS NOT MEASURED
N/A MEANS NOT AVAILABLE

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PROJECT: I-75 (SR 93) AT SR 25 (US 41) **HAMMER TYPE:** AUTOMATIC
CLIENT: OSIRIS 9 CONSULTING, LLC **STATION:** 539+92
PROJECT NO.: 364-13-24-01 **OFFSET:** 89 FEET LEFT
PROJECT LOCATION: COLUMBIA COUNTY, FLORIDA **ELEVATION (FEET):** 70.6
BORING NO.: ORW-11 **DATE:** 01/08/2025
DRILLER: H. WILLIAMS **FLUID LOSS:** NONE
DEPTH TO WATER (FEET): INITIAL: ▽ >20.0 **24 HR:** ▽ >20.0 **CASING DEPTH (FEET):** NONE

DEPTH (METERS)	DEPTH (FEET)	SAMPLE	SYMBOL	DESCRIPTION	AASHTO	TEST RESULTS	Wc (%)	Wc (%)	N	N-Value
								10 20 30 40 60		10 20 30 40 60 80
	16			MEDIUM DENSE GRAY AND ORANGE CLAYEY FINE SAND	A-2-6	-200%=21	16		20	
5	18						18		18	
6	20									
	22									
7	24									
	26									
8	28									

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NOTES: N/M MEANS NOT MEASURED
N/A MEANS NOT AVAILABLE

ENVIRONMENTAL & GEOTECHNICAL SPECIALISTS, INC.

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Jacksonville, Florida 32257
Office: (904) 329-7180

PROJECT: I-75 (SR 93) AT SR 25 (US 41) | **HAMMER TYPE:** AUGER
CLIENT: OSIRIS 9 CONSULTING, LLC | **STATION:** 541+03
PROJECT NO.: 364-13-24-01 | **OFFSET:** 28 FEET RIGHT
PROJECT LOCATION: COLUMBIA COUNTY, FLORIDA | **ELEVATION (FEET):** 72.6
BORING NO.: ORW-12 | **DATE:** 01/09/2025
DRILLER: W. CHOMAT | **FLUID LOSS:** NONE
DEPTH TO WATER (FEET): INITIAL: ▽ >5.5 **24 HR:** ▼ >5.5 | **CASING DEPTH (FEET):** NONE

DEPTH (METERS)	DEPTH (FEET)	SAMPLE	SYMBOL	DESCRIPTION	AASHTO	TEST RESULTS	Wc (%)	N	N-Value
0	0			LOOSE DARK GRAY SILTY FINE SAND WITH ORGANICS	A-2-4	ORG%= 4.7	9	--	--
						-200%=18	8	7	
	2						12	7	
1				LOOSE GRAY SILTY FINE SAND	A-2-4		12	8	
	4						13	5	
				FIRM GRAY HIGHLY PLASTIC SANDY CLAY	A-7-6	-200%=56 LL=100 PI=92	41	5	
2	6								
	8								
3	10								
	12								
4									
	14								

Wc (%) axis: 10, 20, 30, 40, 60
N-Value axis: 10, 20, 30, 40, 60, 80

NOTES: N/M MEANS NOT MEASURED
N/A MEANS NOT AVAILABLE

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ENVIRONMENTAL & GEOTECHNICAL SPECIALISTS, INC.
3772 Kori Road
Jacksonville, Florida 32257
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PROJECT: I-75 (SR 93) AT SR 25 (US 41) | **HAMMER TYPE:** AUTOMATIC
CLIENT: OSIRIS 9 CONSULTING, LLC | **STATION:** 541+83
PROJECT NO.: 364-13-24-01 | **OFFSET:** 78 FEET LEFT
PROJECT LOCATION: COLUMBIA COUNTY, FLORIDA | **ELEVATION (FEET):** 72.8
BORING NO.: ORW-13 | **DATE:** 01/07/2025
DRILLER: H. WILLIAMS | **FLUID LOSS:** NONE
DEPTH TO WATER (FEET): INITIAL: ▽ >10.5 **24 HR:** ▽ >10.5 **CASING DEPTH (FEET):** NONE

DEPTH (METERS)	DEPTH (FEET)	SAMPLE	SYMBOL	DESCRIPTION	AASHTO	TEST RESULTS	Wc (%)	N
0	0			MEDIUM DENSE DARK GRAY SILTY FINE SAND WITH ORGANICS	A-2-4	ORG%= 2.8	5	--
	2			MEDIUM DENSE GRAY SILTY FINE SAND	A-2-4	-200%=13 ORG%= 0.8	6	9
						ORG%= 1.0	8	9
1	4			LOOSE GRAY AND ORANGE CLAYEY FINE SAND	A-2-6		29	8
							24	8
2	6					-200%=31 LL=39 PI=17	24	8
	8			MEDIUM DENSE GRAY AND ORANGE CLAYEY FINE SAND	A-2-6		18	11
							26	14
3	10						20	12
	12							
4	14							

Wc (%) scale: 10, 20, 30, 40, 60
N-Value scale: 10, 20, 30, 40, 60, 80

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NOTES: N/M MEANS NOT MEASURED
N/A MEANS NOT AVAILABLE

ENVIRONMENTAL & GEOTECHNICAL SPECIALISTS, INC.
3772 Kori Road
Jacksonville, Florida 32257
Office: (904) 329-7180

PROJECT: I-75 (SR 93) AT SR 25 (US 41) **HAMMER TYPE:** AUTOMATIC
CLIENT: OSIRIS 9 CONSULTING, LLC **STATION:** 541+83
PROJECT NO.: 364-13-24-01 **OFFSET:** 30 FEET RIGHT
PROJECT LOCATION: COLUMBIA COUNTY, FLORIDA **ELEVATION (FEET):** 73.2
BORING NO.: ORW-14 **DATE:** 01/08/2025
DRILLER: W. CHOMAT **FLUID LOSS:** NONE
DEPTH TO WATER (FEET): INITIAL: ▽ >20.0 **24 HR:** ▽ >20.0 **CASING DEPTH (FEET):** NONE

DEPTH (METERS)	DEPTH (FEET)	SAMPLE	SYMBOL	DESCRIPTION	AASHTO	TEST RESULTS	Wc (%)	N
0	0			MEDIUM DENSE DARK GRAY ORGANIC SILTY FINE SAND	A-2-4	ORG%= 5.0	5	--
				MEDIUM DENSE GRAY SILTY FINE SAND	A-2-4	ORG%= 0.9	9	10
	2			LOOSE GRAY SILTY FINE SAND	A-2-4	ORG%= 1.4	14	8
1						-200%=30 LL=28 PI=13	17	7
	4			LOOSE GRAY AND ORANGE CLAYEY FINE SAND	A-2-6		21	8
							24	8
	6							
2							29	11
	8						28	15
				MEDIUM DENSE GRAY AND ORANGE CLAYEY FINE SAND	A-2-6			
3	10						31	14
							28	11
	12							
4						-200%=23	28	8
	14							

Wc (%) axis: 10, 20, 30, 40, 60
N-Value axis: 10, 20, 30, 40, 60, 80

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NOTES: N/M MEANS NOT MEASURED
N/A MEANS NOT AVAILABLE

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PROJECT: I-75 (SR 93) AT SR 25 (US 41) | **HAMMER TYPE:** AUTOMATIC
CLIENT: OSIRIS 9 CONSULTING, LLC | **STATION:** 541+83
PROJECT NO.: 364-13-24-01 | **OFFSET:** 30 FEET RIGHT
PROJECT LOCATION: COLUMBIA COUNTY, FLORIDA | **ELEVATION (FEET):** 73.2
BORING NO.: ORW-14 | **DATE:** 01/08/2025
DRILLER: W. CHOMAT | **FLUID LOSS:** NONE
DEPTH TO WATER (FEET): INITIAL: ▽ >20.0 **24 HR:** ▽ >20.0 **CASING DEPTH (FEET):** NONE

DEPTH (METERS)	DEPTH (FEET)	SAMPLE	SYMBOL	DESCRIPTION	AASHTO	TEST RESULTS	Wc (%)	N	N-Value
5	16			LOOSE GRAY AND ORANGE CLAYEY FINE SAND	A-2-6		26	6	
6	18						29	8	
	20								
7	22								
	24								
8	26								
	28								

Wc (%) scale: 10, 20, 30, 40, 60
N-Value scale: 10, 20, 30, 40, 60, 80

NOTES: N/M MEANS NOT MEASURED
N/A MEANS NOT AVAILABLE

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Office: (904) 329-7180

PROJECT: I-75 (SR 93) AT SR 25 (US 41) | **HAMMER TYPE:** AUTOMATIC
CLIENT: OSIRIS 9 CONSULTING, LLC | **STATION:** 531+73
PROJECT NO.: 364-13-24-01 | **OFFSET:** 119 FEET LEFT
PROJECT LOCATION: COLUMBIA COUNTY, FLORIDA | **ELEVATION (FEET):** 70.2
BORING NO.: ORW-15 | **DATE:** 01/08/2025
DRILLER: H. WILLIAMS | **FLUID LOSS:** NONE
DEPTH TO WATER (FEET): INITIAL: ▽ >10.5 **24 HR:** ▽ >10.5 **CASING DEPTH (FEET):** NONE

DEPTH (METERS)	DEPTH (FEET)	SAMPLE	SYMBOL	DESCRIPTION	AASHTO	TEST RESULTS	Wc (%)	N
0	0			LIMEROCK BASE	--		--	--
							--	--
	2			MEDIUM DENSE GRAY SILTY FINE SAND	A-2-4	-200%=15	9	12
1							11	9
	4			LOOSE GRAY AND ORANGE CLAYEY FINE SAND	A-2-6		23	8
							25	8
2	6			MEDIUM DENSE GRAY AND ORANGE CLAYEY FINE SAND	A-2-6	-200%=33	32	18
	8						19	20
3	10						21	13
	12							
4								
	14							

Wc (%): 10 20 30 40 60
N-Value: 10 20 30 40 60 80

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NOTES: N/M MEANS NOT MEASURED
N/A MEANS NOT AVAILABLE

ENVIRONMENTAL & GEOTECHNICAL SPECIALISTS, INC.

3772 Kori Road
Jacksonville, Florida 32257
Office: (904) 329-7180

PROJECT: I-75 (SR 93) AT SR 25 (US 41)
CLIENT: OSIRIS 9 CONSULTING, LLC
PROJECT NO.: 364-13-24-01
PROJECT LOCATION: COLUMBIA COUNTY, FLORIDA
BORING NO.: ORW-16
DRILLER: W. CHOMAT
DEPTH TO WATER (FEET): INITIAL: ▽ >5.5 **24 HR:** ▼ >5.5

HAMMER TYPE: AUTOMATIC
STATION: 532+49
OFFSET: 185 FEET LEFT
ELEVATION (FEET): 68.8
DATE: 01/09/2025
FLUID LOSS: NONE
CASING DEPTH (FEET): NONE

DEPTH (METERS)	DEPTH (FEET)	SAMPLE	SYMBOL	DESCRIPTION	AASHTO	TEST RESULTS	Wc (%)	N	N-Value
0	0						8	--	--
				LOOSE GRAY SILTY FINE SAND	A-2-4	-200%=23	11	8	
	2						12	7	
1				LOOSE GRAY AND ORANGE CLAYEY SAND	A-6	-200%=37	16	7	
	4						21	8	
							21	8	
2	6								
	8								
3	10								
	12								
4	14								

Wc (%) axis: 10, 20, 30, 40, 60
N-Value axis: 10, 20, 30, 40, 60, 80

NOTES: N/M MEANS NOT MEASURED
N/A MEANS NOT AVAILABLE

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ENVIRONMENTAL & GEOTECHNICAL SPECIALISTS, INC.

3772 Kori Road
Jacksonville, Florida 32257
Office: (904) 329-7180

PROJECT: I-75 (SR 93) AT SR 25 (US 41) **HAMMER TYPE:** AUTOMATIC
CLIENT: OSIRIS 9 CONSULTING, LLC **STATION:** 533+61
PROJECT NO.: 364-13-24-01 **OFFSET:** 217 FEET LEFT
PROJECT LOCATION: COLUMBIA COUNTY, FLORIDA **ELEVATION (FEET):** 71.6
BORING NO.: ORW-17 **DATE:** 01/07/2025
DRILLER: W. CHOMAT **FLUID LOSS:** NONE
DEPTH TO WATER (FEET): INITIAL: ▽ >10.5 **24 HR:** ▽ >10.5 **CASING DEPTH (FEET):** NONE

DEPTH (METERS)	DEPTH (FEET)	SAMPLE	SYMBOL	DESCRIPTION	AASHTO	TEST RESULTS	Wc (%)	N
0	0			MEDIUM DENSE GRAY SILTY FINE SAND	A-2-4		7	--
				MEDIUM DENSE GRAY FINE SAND	A-3	-200%=10	3	9
	2			LOOSE GRAY FINE SAND	A-3		3	8
1							4	9
	4			MEDIUM DENSE GRAY FINE SAND	A-3		13	9
				LOOSE GRAY AND ORANGE CLAYEY FINE SAND	A-2-6	-200%=31 LL=26 PI=13	18	8
2	6						21	10
	8			MEDIUM DENSE GRAY AND ORANGE CLAYEY FINE SAND	A-2-6		18	15
3	10						20	13
	12							
4								
	14							

Wc (%) scale: 10 20 30 40 60

N-Value scale: 10 20 30 40 60 80

This information pertains only to this boring and should not be interpreted as being indicitive of the site.

NOTES: N/M MEANS NOT MEASURED
N/A MEANS NOT AVAILABLE

ENVIRONMENTAL & GEOTECHNICAL SPECIALISTS, INC.
3772 Kori Road
Jacksonville, Florida 32257
Office: (904) 329-7180

PROJECT: I-75 (SR 93) AT SR 25 (US 41) | **HAMMER TYPE:** AUTOMATIC
CLIENT: OSIRIS 9 CONSULTING, LLC | **STATION:** 533+23
PROJECT NO.: 364-13-24-01 | **OFFSET:** 253 FEET LEFT
PROJECT LOCATION: COLUMBIA COUNTY, FLORIDA | **ELEVATION (FEET):** 69.2
BORING NO.: ORW-18 | **DATE:** 01/08/2025
DRILLER: W. CHOMAT | **FLUID LOSS:** NONE
DEPTH TO WATER (FEET): INITIAL: ▽ >20.0 **24 HR:** ▽ >20.0 **CASING DEPTH (FEET):** NONE

DEPTH (METERS)	DEPTH (FEET)	SAMPLE	SYMBOL	DESCRIPTION	AASHTO	TEST RESULTS	Wc (%)	N
0	0			LOOSE GRAY SILTY FINE SAND	A-2-4		15	--
							14	8
	2			LOOSE ORANGE CLAYEY FINE SAND	A-2-6	-200%=34 LL=31 PI=19	15	8
1							20	7
	4						22	7
							21	5
	6			MEDIUM DENSE ORANGE CLAYEY FINE SAND	A-2-6		20	11
2	8			MEDIUM DENSE GRAY AND ORANGE HIGHLY PLASTIC CLAYEY FINE SAND	A-2-7	-200%=30 LL=53 PI=37	21	13
	10			LOOSE GRAY AND ORANGE HIGHLY PLASTIC CLAYEY FINE SAND	A-2-7		30	8
3							29	12
	12							
4							25	14
	14							

Wc (%) axis: 10, 20, 30, 40, 60
N-Value axis: 10, 20, 30, 40, 60, 80

NOTES: N/M MEANS NOT MEASURED
N/A MEANS NOT AVAILABLE

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Office: (904) 329-7180

PROJECT: I-75 (SR 93) AT SR 25 (US 41) **HAMMER TYPE:** AUTOMATIC
CLIENT: OSIRIS 9 CONSULTING, LLC **STATION:** 533+23
PROJECT NO.: 364-13-24-01 **OFFSET:** 253 FEET LEFT
PROJECT LOCATION: COLUMBIA COUNTY, FLORIDA **ELEVATION (FEET):** 69.2
BORING NO.: ORW-18 **DATE:** 01/08/2025
DRILLER: W. CHOMAT **FLUID LOSS:** NONE
DEPTH TO WATER (FEET): INITIAL: ▽ >20.0 **24 HR:** ▽ >20.0 **CASING DEPTH (FEET):** NONE

DEPTH (METERS)	DEPTH (FEET)	SAMPLE	SYMBOL	DESCRIPTION	AASHTO	TEST RESULTS	Wc (%)	Wc (%)	N	N-Value
								10 20 30 40 60		10 20 30 40 60 80
5	16			MEDIUM DENSE GRAY AND ORANGE HIGHLY PLASTIC CLAYEY FINE SAND	A-2-7		37		10	
6	18						27		10	
	20									
7	22									
	24									
8	26									
	28									

NOTES: N/M MEANS NOT MEASURED
N/A MEANS NOT AVAILABLE

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Office: (904) 329-7180

PROJECT: I-75 (SR 93) AT SR 25 (US 41) | **HAMMER TYPE:** AUGER
CLIENT: OSIRIS 9 CONSULTING, LLC | **STATION:** 533+87
PROJECT NO.: 364-13-24-01 | **OFFSET:** 322 FEET LEFT
PROJECT LOCATION: COLUMBIA COUNTY, FLORIDA | **ELEVATION (FEET):** 69.8
BORING NO.: ORW-19 | **DATE:** 01/09/2025
DRILLER: W. CHOMAT | **FLUID LOSS:** NONE
DEPTH TO WATER (FEET): INITIAL: ▽ >5.5 **24 HR:** ▽ >5.5 | **CASING DEPTH (FEET):** NONE

DEPTH (METERS)	DEPTH (FEET)	SAMPLE	SYMBOL	DESCRIPTION	AASHTO	TEST RESULTS	Wc (%)	N	N-Value
0	0						1	--	--
				LOOSE GRAY SILTY FINE SAND	A-2-4	-200%=12	5	7	
	2						6	8	
1						-200%=29	18	8	
	4			LOOSE ORANGE CLAYEY FINE SAND	A-2-6		19	7	
							20	8	
2	6								
	8								
3	10								
	12								
4	14								

Wc (%) axis: 10, 20, 30, 40, 60
N-Value axis: 10, 20, 30, 40, 60, 80

NOTES: N/M MEANS NOT MEASURED
N/A MEANS NOT AVAILABLE

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PROJECT: I-75 (SR 93) AT SR 25 (US 41) **HAMMER TYPE:** AUTOMATIC
CLIENT: OSIRIS 9 CONSULTING, LLC **STATION:** 534+22
PROJECT NO.: 364-13-24-01 **OFFSET:** 289 FEET LEFT
PROJECT LOCATION: COLUMBIA COUNTY, FLORIDA **ELEVATION (FEET):** 72.2
BORING NO.: ORW-20 **DATE:** 01/08/2025
DRILLER: W. CHOMAT **FLUID LOSS:** NONE
DEPTH TO WATER (FEET): INITIAL: ▽ >10.5 **24 HR:** ▽ >10.5 **CASING DEPTH (FEET):** NONE

DEPTH (METERS)	DEPTH (FEET)	SAMPLE	SYMBOL	DESCRIPTION	AASHTO	TEST RESULTS	Wc (%)	N
0	0			LOOSE GRAY FINE SAND	A-3		4	--
							4	8
	2					-200%=10	5	8
1				LOOSE GRAY AND ORANGE HIGHLY PLASTIC CLAYEY SAND	A-7-6	LL=53 PI=32	20	7
	4						23	7
							25	7
2	6			MEDIUM DENSE GRAY AND ORANGE HIGHLY PLASTIC CLAYEY SAND	A-7-6		22	11
	8			MEDIUM DENSE GRAY AND ORANGE CLAYEY FINE SAND	A-2-6	-200%=25	17	15
3	10						17	15
	12							
4								
	14							

Wc (%) axis: 10, 20, 30, 40, 60
N-Value axis: 10, 20, 30, 40, 60, 80

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NOTES: N/M MEANS NOT MEASURED
N/A MEANS NOT AVAILABLE

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Office: (904) 329-7180

PROJECT: I-75 (SR 93) AT SR 25 (US 41) | **HAMMER TYPE:** AUTOMATIC
CLIENT: OSIRIS 9 CONSULTING, LLC | **STATION:** 534+46
PROJECT NO.: 364-13-24-01 | **OFFSET:** 376 FEET LEFT
PROJECT LOCATION: COLUMBIA COUNTY, FLORIDA | **ELEVATION (FEET):** 71.4
BORING NO.: ORW-21 | **DATE:** 01/08/2025
DRILLER: W. CHOMAT | **FLUID LOSS:** NONE
DEPTH TO WATER (FEET): INITIAL: ▽ >20.0 **24 HR:** ▼ >20.0 | **CASING DEPTH (FEET):** NONE

DEPTH (METERS)	DEPTH (FEET)	SAMPLE	SYMBOL	DESCRIPTION	AASHTO	TEST RESULTS	Wc (%)	N
0	0			LOOSE DARK GRAY ORGANIC SILTY FINE SAND	A-2-4	ORG%= 6.5	23	--
	2			LOOSE GRAY AND ORANGE CLAYEY FINE SAND	A-2-6	-200%=33 LL=27 PI=13	15	5
1	4			LOOSE GRAY CLAYEY SAND	A-6		19 17 16 16	7 8 8 8
2	6						15	17
	8						15	21
3	10						15 18	17 16
4	12			MEDIUM DENSE GRAY CLAYEY SAND	A-6	-200%=38 LL=27 PI=14	25	11
	14							

Wc (%) axis: 10, 20, 30, 40, 60
N-Value axis: 10, 20, 30, 40, 60, 80

NOTES: N/M MEANS NOT MEASURED
N/A MEANS NOT AVAILABLE

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Office: (904) 329-7180

PROJECT: I-75 (SR 93) AT SR 25 (US 41)
CLIENT: OSIRIS 9 CONSULTING, LLC
PROJECT NO.: 364-13-24-01
PROJECT LOCATION: COLUMBIA COUNTY, FLORIDA
BORING NO.: ORW-21
DRILLER: W. CHOMAT
DEPTH TO WATER (FEET): INITIAL: ▽ >20.0 **24 HR:** ▽ >20.0

HAMMER TYPE: AUTOMATIC
STATION: 534+46
OFFSET: 376 FEET LEFT
ELEVATION (FEET): 71.4
DATE: 01/08/2025
FLUID LOSS: NONE
CASING DEPTH (FEET): NONE

DEPTH (METERS)	DEPTH (FEET)	SAMPLE	SYMBOL	DESCRIPTION	AASHTO	TEST RESULTS	Wc (%)	N	N-Value
5	16						17	13	
	18								
6	20						20	9	
7	22								
	24								
8	26								
	28								

Wc (%): 10 20 30 40 60

N-Value: 10 20 30 40 60 80

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NOTES: N/M MEANS NOT MEASURED
N/A MEANS NOT AVAILABLE

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PROJECT: I-75 (SR 93) AT SR 25 (US 41) **HAMMER TYPE:** AUGER
CLIENT: OSIRIS 9 CONSULTING, LLC **STATION:** 543+78
PROJECT NO.: 364-13-24-01 **OFFSET:** 346 FEET LEFT
PROJECT LOCATION: COLUMBIA COUNTY, FLORIDA **ELEVATION (FEET):** 72.7
BORING NO.: ORW-22 **DATE:** 01/09/2025
DRILLER: W. CHOMAT **FLUID LOSS:** NONE
DEPTH TO WATER (FEET): INITIAL: ▽ >5.5 **24 HR:** ▽ >5.5 **CASING DEPTH (FEET):** NONE

DEPTH (METERS)	DEPTH (FEET)	SAMPLE	SYMBOL	DESCRIPTION	AASHTO	TEST RESULTS	Wc (%)	N	N-Value
							10 20 30 40 60		10 20 30 40 60 80
0	0			LOOSE GRAY SILTY FINE SAND	A-2-4		4	--	--
						-200%=36	13	8	
	2						14	8	
1				LOOSE GRAY AND ORANGE PLASTIC CLAYEY SAND	A-7-6		12	7	
	4						13	8	
							17	8	
2	6								
	8								
3	10								
	12								
4									
	14								

NOTES: N/M MEANS NOT MEASURED
N/A MEANS NOT AVAILABLE

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PROJECT: I-75 (SR 93) AT SR 25 (US 41) | **HAMMER TYPE:** AUTOMATIC
CLIENT: OSIRIS 9 CONSULTING, LLC | **STATION:** 538+73
PROJECT NO.: 364-13-24-01 | **OFFSET:** 228 FEET RIGHT
PROJECT LOCATION: COLUMBIA COUNTY, FLORIDA | **ELEVATION (FEET):** 71.8
BORING NO.: ORW-23 | **DATE:** 01/08/2025
DRILLER: W. CHOMAT | **FLUID LOSS:** NONE
DEPTH TO WATER (FEET): INITIAL: ▽ >20.0 **24 HR:** ▽ >20.0 **CASING DEPTH (FEET):** NONE

DEPTH (METERS)	DEPTH (FEET)	SAMPLE	SYMBOL	DESCRIPTION	AASHTO	TEST RESULTS	Wc (%)	N
0	0						7	--
				MEDIUM DENSE GRAY SILTY FINE SAND	A-2-4	-200%=15	3	10
	2						3	9
1						-200%=36 LL=48 PI=34	20	8
	4			LOOSE GRAY AND ORANGE PLASTIC CLAYEY SAND	A-7-6		17	8
							21	8
2	6						22	13
	8			MEDIUM DENSE GRAY AND ORANGE PLASTIC CLAYEY SAND	A-7-6		21	16
3	10						21	9
							30	7
	12					-200%=37		
4							37	6
	14							

Wc (%) axis: 10, 20, 30, 40, 60
N-Value axis: 10, 20, 30, 40, 60, 80

NOTES: N/M MEANS NOT MEASURED
N/A MEANS NOT AVAILABLE

This information pertains only to this boring and should not be interpreted as being indicitive of the site.

ENVIRONMENTAL & GEOTECHNICAL SPECIALISTS, INC.

3772 Kori Road
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Office: (904) 329-7180

PROJECT: I-75 (SR 93) AT SR 25 (US 41) **HAMMER TYPE:** AUTOMATIC
CLIENT: OSIRIS 9 CONSULTING, LLC **STATION:** 538+73
PROJECT NO.: 364-13-24-01 **OFFSET:** 228 FEET RIGHT
PROJECT LOCATION: COLUMBIA COUNTY, FLORIDA **ELEVATION (FEET):** 71.8
BORING NO.: ORW-23 **DATE:** 01/08/2025
DRILLER: W. CHOMAT **FLUID LOSS:** NONE
DEPTH TO WATER (FEET): INITIAL: ▽ >20.0 **24 HR:** ▽ >20.0 **CASING DEPTH (FEET):** NONE

DEPTH (METERS)	DEPTH (FEET)	SAMPLE	SYMBOL	DESCRIPTION	AASHTO	TEST RESULTS	Wc (%)	Wc (%) 10 20 30 40 60	N	N-Value 10 20 30 40 60 80
5	16			LOOSE GRAY AND ORANGE PLASTIC CLAYEY SAND	A-7-6		33		5	
6	18						83	83 →	5	
	20									
7	22									
	24									
8	26									
	28									

NOTES: N/M MEANS NOT MEASURED
N/A MEANS NOT AVAILABLE

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ENVIRONMENTAL & GEOTECHNICAL SPECIALISTS, INC.

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Jacksonville, Florida 32257
Office: (904) 329-7180

PROJECT: I-75 (SR 93) AT SR 25 (US 41)
CLIENT: OSIRIS 9 CONSULTING, LLC
PROJECT NO.: 364-13-24-01
PROJECT LOCATION: COLUMBIA COUNTY, FLORIDA
BORING NO.: ORW-24
DRILLER: W. CHOMAT
DEPTH TO WATER (FEET): INITIAL: ▽ >5.5 **24 HR:** ▼ >5.5

HAMMER TYPE: AUGER
STATION: 539+07
OFFSET: 255 FEET RIGHT
ELEVATION (FEET): 69.8
DATE: 01/09/2025
FLUID LOSS: NONE
CASING DEPTH (FEET): NONE

DEPTH (METERS)	DEPTH (FEET)	SAMPLE	SYMBOL	DESCRIPTION	AASHTO	TEST RESULTS	Wc (%)	N	N-Value
0	0			LOOSE DARK GRAY SILTY FINE SAND WITH ORGANICS	A-2-4	ORG%= 3.5	7	--	--
						-200%=14 ORG%= 1.3	5	7	
	2					ORG%= 1.3	7	9	
1				LOOSE GRAY SILTY FINE SAND	A-2-4	ORG%= 0.3	6	8	
	4						12	9	
				LOOSE GRAY AND ORANGE PLASTIC CLAYEY SAND	A-7-6	-200%=36 LL=46 PI=24	28	8	
2	6								
	8								
3	10								
	12								
4									
	14								

Wc (%) axis: 10, 20, 30, 40, 60
N-Value axis: 10, 20, 30, 40, 60, 80

NOTES: N/M MEANS NOT MEASURED
N/A MEANS NOT AVAILABLE

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Office: (904) 329-7180

PROJECT: I-75 (SR 93) AT SR 25 (US 41) **HAMMER TYPE:** AUTOMATIC
CLIENT: OSIRIS 9 CONSULTING, LLC **STATION:** 539+34
PROJECT NO.: 364-13-24-01 **OFFSET:** 149 FEET RIGHT
PROJECT LOCATION: COLUMBIA COUNTY, FLORIDA **ELEVATION (FEET):** 72.2
BORING NO.: ORW-25 **DATE:** 01/07/2025
DRILLER: W. CHOMAT **FLUID LOSS:** NONE
DEPTH TO WATER (FEET): INITIAL: ▽ >10.5 **24 HR:** ▽ >10.5 **CASING DEPTH (FEET):** NONE

DEPTH (METERS)	DEPTH (FEET)	SAMPLE	SYMBOL	DESCRIPTION	AASHTO	TEST RESULTS	Wc (%)	N
0	0			LOOSE DARK GRAY SILTY FINE SAND WITH ORGANICS	A-2-4	ORG%= 3.4	9	--
						-200%=17 ORG%= 1.5	8	8
	2						6	7
1				LOOSE GRAY SILTY FINE SAND	A-2-4		12	7
	4						20	8
				MEDIUM DENSE GRAY CLAYEY SAND	A-6	-200%=35 LL=34 PI=26	17	9
2	6							
				DENSE GRAY CLAYEY SAND	A-6		38	33
	8						32	28
3				MEDIUM DENSE GRAY CLAYEY SAND	A-6		22	16
	10							
	12							
4								
	14							

Wc (%) scale: 10, 20, 30, 40, 60
N-Value scale: 10, 20, 30, 40, 60, 80

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NOTES: N/M MEANS NOT MEASURED
N/A MEANS NOT AVAILABLE

ENVIRONMENTAL & GEOTECHNICAL SPECIALISTS, INC.
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PROJECT: I-75 (SR 93) AT SR 25 (US 41) | **HAMMER TYPE:** AUTOMATIC
CLIENT: OSIRIS 9 CONSULTING, LLC | **STATION:** 539+76
PROJECT NO.: 364-13-24-01 | **OFFSET:** 182 FEET RIGHT
PROJECT LOCATION: COLUMBIA COUNTY, FLORIDA | **ELEVATION (FEET):** 69.2
BORING NO.: ORW-26 | **DATE:** 01/08/2025
DRILLER: W. CHOMAT | **FLUID LOSS:** NONE
DEPTH TO WATER (FEET): INITIAL: ▽ >10.5 **24 HR:** ▽ >10.5 **CASING DEPTH (FEET):** NONE

DEPTH (METERS)	DEPTH (FEET)	SAMPLE	SYMBOL	DESCRIPTION	AASHTO	TEST RESULTS	Wc (%)	N
0	0			LOOSE DARK GRAY SILTY FINE SAND WITH ORGANICS	A-2-4	ORG%= 3.2	35	--
				STIFF GRAY PLASTIC SANDY CLAY	A-7-6	-200%=64 LL=46 PI=32	55	8
	2			LOOSE GRAY SILTY FINE SAND	A-2-4	-200%=35	26	8
1							31	7
	4			MEDIUM DENSE GRAY SILTY FINE SAND	A-2-4		30	9
				LOOSE GRAY SILTY FINE SAND	A-2-4		33	8
2	6			MEDIUM DENSE GRAY PLASTIC CLAYEY FINE SAND	A-2-7	-200%=24 LL=49 PI=33	49	10
	8						25	11
3	10						27	7
	12							
4								
	14							

Wc (%) scale: 10, 20, 30, 40, 60
N-Value scale: 10, 20, 30, 40, 60, 80

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NOTES: N/M MEANS NOT MEASURED
N/A MEANS NOT AVAILABLE

ENVIRONMENTAL & GEOTECHNICAL SPECIALISTS, INC.

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PROJECT: I-75 (SR 93) AT SR 25 (US 41) **HAMMER TYPE:** AUGER
CLIENT: OSIRIS 9 CONSULTING, LLC **STATION:** 539+93
PROJECT NO.: 364-13-24-01 **OFFSET:** 71 FEET RIGHT
PROJECT LOCATION: COLUMBIA COUNTY, FLORIDA **ELEVATION (FEET):** 72.8
BORING NO.: ORW-27 **DATE:** 01/09/2025
DRILLER: W. CHOMAT **FLUID LOSS:** NONE
DEPTH TO WATER (FEET): INITIAL: ▽ >5.5 **24 HR:** ▽ >5.5 **CASING DEPTH (FEET):** NONE

DEPTH (METERS)	DEPTH (FEET)	SAMPLE	SYMBOL	DESCRIPTION	AASHTO	TEST RESULTS	Wc (%)	N
0	0						4	--
				LOOSE GRAY SILTY FINE SAND	A-2-4	-200%=16	7	8
	2						10	7
1							30	7
	4			LOOSE GRAY CLAYEY FINE SAND	A-2-6		23	8
						-200%=27 LL=38 PI=21	22	7
2	6							
	8							
3	10							
	12							
4	14							

Wc (%) scale: 10, 20, 30, 40, 60
N-Value scale: 10, 20, 30, 40, 60, 80

NOTES: N/M MEANS NOT MEASURED
N/A MEANS NOT AVAILABLE

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PROJECT: I-75 (SR 93) AT SR 25 (US 41) | **HAMMER TYPE:** AUTOMATIC
CLIENT: OSIRIS 9 CONSULTING, LLC | **STATION:** 540+38
PROJECT NO.: 364-13-24-01 | **OFFSET:** 104 FEET RIGHT
PROJECT LOCATION: COLUMBIA COUNTY, FLORIDA | **ELEVATION (FEET):** 71.3
BORING NO.: ORW-28 | **DATE:** 01/07/2025
DRILLER: W. CHOMAT | **FLUID LOSS:** NONE
DEPTH TO WATER (FEET): INITIAL: ▽ >20.0 **24 HR:** ▽ >20.0 **CASING DEPTH (FEET):** NONE

DEPTH (METERS)	DEPTH (FEET)	SAMPLE	SYMBOL	DESCRIPTION	AASHTO	TEST RESULTS	Wc (%)	N
0	0			MEDIUM DENSE DARK GRAY SILTY FINE SAND WITH ORGANICS	A-2-4	ORG%= 4.4	9	--
	2			MEDIUM DENSE GRAY SILTY FINE SAND	A-2-4	-200%=13 ORG%= 1.0	6	9
							8	9
1	4			LOOSE GRAY SILTY FINE SAND	A-2-4		12	8
	6			LOOSE GRAY HIGHLY PLASTIC CLAYEY SAND	A-7-6	-200%=44 LL=56 PI=33	32	7
							32	8
2	8			MEDIUM DENSE GRAY HIGHLY PLASTIC CLAYEY SAND	A-7-6		27	13
							21	14
3	10						26	13
	12			MEDIUM DENSE GRAY SILTY FINE SAND	A-2-4	-200%=14	21	13
4							12	15
	14							

Wc (%) axis: 10, 20, 30, 40, 60
N-Value axis: 10, 20, 30, 40, 60, 80

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NOTES: N/M MEANS NOT MEASURED
N/A MEANS NOT AVAILABLE

ENVIRONMENTAL & GEOTECHNICAL SPECIALISTS, INC.

3772 Kori Road
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Office: (904) 329-7180

PROJECT: I-75 (SR 93) AT SR 25 (US 41) **HAMMER TYPE:** AUTOMATIC
CLIENT: OSIRIS 9 CONSULTING, LLC **STATION:** 540+38
PROJECT NO.: 364-13-24-01 **OFFSET:** 104 FEET RIGHT
PROJECT LOCATION: COLUMBIA COUNTY, FLORIDA **ELEVATION (FEET):** 71.3
BORING NO.: ORW-28 **DATE:** 01/07/2025
DRILLER: W. CHOMAT **FLUID LOSS:** NONE
DEPTH TO WATER (FEET): INITIAL: ▽ >20.0 **24 HR:** ▽ >20.0 **CASING DEPTH (FEET):** NONE

DEPTH (METERS)	DEPTH (FEET)	SAMPLE	SYMBOL	DESCRIPTION	AASHTO	TEST RESULTS	Wc (%)	N	N-Value
5	16			MEDIUM DENSE GRAY CLAYEY FINE SAND	A-2-6	-200%=20	29	10	
6	18						31	17	
	20								
7	22								
	24								
8	26								
	28								

Wc (%): 10 20 30 40 60
N-Value: 10 20 30 40 60 80

NOTES: N/M MEANS NOT MEASURED
N/A MEANS NOT AVAILABLE

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Office: (904) 329-7180

PROJECT: I-75 (SR 93) AT SR 25 (US 41) **HAMMER TYPE:** AUGER
CLIENT: OSIRIS 9 CONSULTING, LLC **STATION:** 541+24
PROJECT NO.: 364-13-24-01 **OFFSET:** 114 FEET RIGHT
PROJECT LOCATION: COLUMBIA COUNTY, FLORIDA **ELEVATION (FEET):** 70.8
BORING NO.: ORW-29 **DATE:** 01/07/2025
DRILLER: H. WILLIAMS **FLUID LOSS:** NONE
DEPTH TO WATER (FEET): INITIAL: ▽ >5.5 **24 HR:** ▽ >5.5 **CASING DEPTH (FEET):** NONE

DEPTH (METERS)	DEPTH (FEET)	SAMPLE	SYMBOL	DESCRIPTION	AASHTO	TEST RESULTS	Wc (%)	N
0	0			LOOSE DARK GRAY SILTY FINE SAND WITH ORGANICS	A-2-4	ORG%= 2.5	5	--
						-200%=16 ORG%= 1.3	6	10
	2					ORG%= 0.6	7	9
1				LOOSE GRAY SILTY FINE SAND	A-2-4	ORG%= 1.2	9	9
	4						15	8
				LOOSE GRAY CLAYEY FINE SAND	A-6		25	8
2	6							
	8							
3	10							
	12							
4								
	14							

Wc (%): 10 20 30 40 60

N-Value: 10 20 30 40 60 80

NOTES: N/M MEANS NOT MEASURED
N/A MEANS NOT AVAILABLE

This information pertains only to this boring and should not be interpreted as being indicitive of the site.

ENVIRONMENTAL & GEOTECHNICAL SPECIALISTS, INC.

3772 Kori Road
Jacksonville, Florida 32257
Office: (904) 329-7180

PROJECT: I-75 (SR 93) AT SR 25 (US 41)
CLIENT: OSIRIS 9 CONSULTING, LLC
PROJECT NO.: 364-13-24-01
PROJECT LOCATION: COLUMBIA COUNTY, FLORIDA
BORING NO.: ORW-30
DRILLER: H. WILLIAMS
DEPTH TO WATER (FEET): INITIAL: ▽ >10.5 **24 HR:** ▽ >10.5

HAMMER TYPE: AUTOMATIC
STATION: 540+63
OFFSET: 186 FEET LEFT
ELEVATION (FEET): 71.4
DATE: 01/06/2025
FLUID LOSS: NONE
CASING DEPTH (FEET): NONE

DEPTH (METERS)	DEPTH (FEET)	SAMPLE	SYMBOL	DESCRIPTION	AASHTO	TEST RESULTS	Wc (%)	N
0	0							
				MEDIUM DENSE GRAY SILTY FINE SAND	A-2-4	-200%=19	6 5 4 6	-- 13 12 9
	4			LOOSE GRAY SILTY FINE SAND	A-2-4		7	8
1								
	6			LOOSE ORANGE PLASTIC CLAYEY FINE SAND	A-2-7	-200%=25 LL=44 PI=22	25 32	7 6
2								
	8			MEDIUM DENSE ORANGE PLASTIC CLAYEY FINE SAND	A-2-7		27 18	10 13
3	10							
	12							
4								
	14							

Wc (%): 10 20 30 40 60

N-Value: 10 20 30 40 60 80

This information pertains only to this boring and should not be interpreted as being indicitive of the site.

NOTES: N/M MEANS NOT MEASURED
N/A MEANS NOT AVAILABLE

ENVIRONMENTAL & GEOTECHNICAL SPECIALISTS, INC.
3772 Kori Road
Jacksonville, Florida 32257
Office: (904) 329-7180

PROJECT: I-75 (SR 93) AT SR 25 (US 41) **HAMMER TYPE:** AUTOMATIC
CLIENT: OSIRIS 9 CONSULTING, LLC **STATION:** 541+05
PROJECT NO.: 364-13-24-01 **OFFSET:** 186 FEET LEFT
PROJECT LOCATION: COLUMBIA COUNTY, FLORIDA **ELEVATION (FEET):** 69.4
BORING NO.: ORW-31 **DATE:** 01/07/2025
DRILLER: H. WILLIAMS **FLUID LOSS:** NONE
DEPTH TO WATER (FEET): INITIAL: ▽ >10.5 **24 HR:** ▼ >10.5 **CASING DEPTH (FEET):** NONE

DEPTH (METERS)	DEPTH (FEET)	SAMPLE	SYMBOL	DESCRIPTION	AASHTO	TEST RESULTS	Wc (%)	N
0	0			MEDIUM DENSE DARK GRAY SILTY FINE SAND WITH ORGANICS	A-2-4	ORG%= 3.0	6	--
	2			MEDIUM DENSE GRAY SILTY FINE SAND	A-2-4	-200%=25 ORG%= 1.2	10	10
1							7	9
	4						8	9
				LOOSE GRAY AND ORANGE CLAYEY FINE SAND	A-2-6	-200%=25 LL=27 PI=12	22	5
	6						21	7
2							26	13
	8			MEDIUM DENSE GRAY AND ORANGE CLAYEY FINE SAND	A-2-6		24	17
3	10						29	13
	12							
4								
	14							

Wc (%) scale: 10, 20, 30, 40, 60
N-Value scale: 10, 20, 30, 40, 60, 80

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NOTES: N/M MEANS NOT MEASURED
N/A MEANS NOT AVAILABLE

ENVIRONMENTAL & GEOTECHNICAL SPECIALISTS, INC.
3772 Kori Road
Jacksonville, Florida 32257
Office: (904) 329-7180

PROJECT: I-75 (SR 93) AT SR 25 (US 41) | **HAMMER TYPE:** AUTOMATIC
CLIENT: OSIRIS 9 CONSULTING, LLC | **STATION:** 540+63
PROJECT NO.: 364-13-24-01 | **OFFSET:** 286 FEET LEFT
PROJECT LOCATION: COLUMBIA COUNTY, FLORIDA | **ELEVATION (FEET):** 71.2
BORING NO.: ORW-32 | **DATE:** 01/06/2025
DRILLER: H. WILLIAMS | **FLUID LOSS:** NONE
DEPTH TO WATER (FEET): INITIAL: ▽ >20.0 **24 HR:** ▽ >20.0 **CASING DEPTH (FEET):** NONE

DEPTH (METERS)	DEPTH (FEET)	SAMPLE	SYMBOL	DESCRIPTION	AASHTO	TEST RESULTS	Wc (%)	N
0	0			MEDIUM DENSE GRAY SILTY FINE SAND	A-2-4	-200%=17	9	--
							14	10
	2			LOOSE GRAY PLASTIC CLAYEY FINE SAND	A-2-7	-200%=31 LL=40 PI=20	19	7
1							26	8
	4						27	7
							22	8
	6			MEDIUM DENSE GRAY PLASTIC CLAYEY FINE SAND	A-2-7		27	14
2								
	8						27	18
3	10						21	16
							25	14
	12							
4						-200%=48	29	17
	14							

Wc (%) scale: 10, 20, 30, 40, 60
N-Value scale: 10, 20, 30, 40, 60, 80

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NOTES: N/M MEANS NOT MEASURED
N/A MEANS NOT AVAILABLE

ENVIRONMENTAL & GEOTECHNICAL SPECIALISTS, INC.

3772 Kori Road
Jacksonville, Florida 32257
Office: (904) 329-7180

PROJECT: I-75 (SR 93) AT SR 25 (US 41)
CLIENT: OSIRIS 9 CONSULTING, LLC
PROJECT NO.: 364-13-24-01
PROJECT LOCATION: COLUMBIA COUNTY, FLORIDA
BORING NO.: ORW-32
DRILLER: H. WILLIAMS
DEPTH TO WATER (FEET): INITIAL: ▽ >20.0 **24 HR:** ▽ >20.0

HAMMER TYPE: AUTOMATIC
STATION: 540+63
OFFSET: 286 FEET LEFT
ELEVATION (FEET): 71.2
DATE: 01/06/2025
FLUID LOSS: NONE
CASING DEPTH (FEET): NONE

DEPTH (METERS)	DEPTH (FEET)	SAMPLE	SYMBOL	DESCRIPTION	AASHTO	TEST RESULTS	Wc (%)	N	N-Value
5	16			MEDIUM DENSE GRAY PLASTIC CLAYEY SAND	A-7-6		32	15	
6	18						28	12	
	20								
7	22								
	24								
8	26								
	28								

Wc (%): 10 20 30 40 60

N-Value: 10 20 30 40 60 80

This information pertains only to this boring and should not be interpreted as being indicitive of the site.

NOTES: N/M MEANS NOT MEASURED
N/A MEANS NOT AVAILABLE

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Jacksonville, Florida 32257
Office: (904) 329-7180

PROJECT: I-75 (SR 93) AT SR 25 (US 41) | **HAMMER TYPE:** AUGER
CLIENT: OSIRIS 9 CONSULTING, LLC | **STATION:** 541+07
PROJECT NO.: 364-13-24-01 | **OFFSET:** 286 FEET LEFT
PROJECT LOCATION: COLUMBIA COUNTY, FLORIDA | **ELEVATION (FEET):** 68.9
BORING NO.: ORW-33 | **DATE:** 01/07/2025
DRILLER: H. WILLIAMS | **FLUID LOSS:** NONE
DEPTH TO WATER (FEET): INITIAL: ▽ >5.5 **24 HR:** ▼ >5.5 | **CASING DEPTH (FEET):** NONE

DEPTH (METERS)	DEPTH (FEET)	SAMPLE	SYMBOL	DESCRIPTION	AASHTO	TEST RESULTS	Wc (%)	N	N-Value
0	0			LOOSE DARK GRAY ORGANIC SILTY FINE SAND	A-2-4	ORG%= 17.1	14	--	--
						-200%=12 ORG%= 1.9	7	9	
	2			LOOSE GRAY SILTY FINE SAND	A-2-4	ORG%= 0.9	13	8	
1						ORG%= 0.6	12	8	
	4			LOOSE GRAY PLASTIC CLAYEY SAND	A-7-6	-200%=44	30	8	
				LOOSE GRAY SILTY FINE SAND	A-2-4		20	7	
2	6								
	8								
3	10								
	12								
4	14								

Wc (%) axis: 10, 20, 30, 40, 60
N-Value axis: 10, 20, 30, 40, 60, 80

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NOTES: N/M MEANS NOT MEASURED
N/A MEANS NOT AVAILABLE

ENVIRONMENTAL & GEOTECHNICAL SPECIALISTS, INC.
3772 Kori Road
Jacksonville, Florida 32257
Office: (904) 329-7180

PROJECT: I-75 (SR 93) AT SR 25 (US 41) **HAMMER TYPE:** AUTOMATIC
CLIENT: OSIRIS 9 CONSULTING, LLC **STATION:** 540+64
PROJECT NO.: 364-13-24-01 **OFFSET:** 386 FEET LEFT
PROJECT LOCATION: COLUMBIA COUNTY, FLORIDA **ELEVATION (FEET):** 71.1
BORING NO.: ORW-34 **DATE:** 01/06/2025
DRILLER: H. WILLIAMS **FLUID LOSS:** NONE
DEPTH TO WATER (FEET): INITIAL: ▽ >10.5 **24 HR:** ▽ >10.5 **CASING DEPTH (FEET):** NONE

DEPTH (METERS)	DEPTH (FEET)	SAMPLE	SYMBOL	DESCRIPTION	AASHTO	TEST RESULTS	Wc (%)	N
0	0			MEDIUM DENSE GRAY SILTY FINE SAND	A-2-4		7	--
						-200%=9	6	8
	2						6	7
1				LOOSE GRAY FINE SAND	A-3		7	7
	4						17	3
						-200%=30 LL=33 PI=19	23	3
	6			LOOSE GRAY CLAYEY FINE SAND	A-2-6			
2							25	7
	8						24	12
				MEDIUM DENSE GRAY CLAYEY FINE SAND	A-2-6			
3	10						23	13
	12							
4								
	14							

Wc (%): 10 20 30 40 60
N-Value: 10 20 30 40 60 80

This information pertains only to this boring and should not be interpreted as being indicitive of the site.

NOTES: N/M MEANS NOT MEASURED
N/A MEANS NOT AVAILABLE

ENVIRONMENTAL & GEOTECHNICAL SPECIALISTS, INC.
3772 Kori Road
Jacksonville, Florida 32257
Office: (904) 329-7180

PROJECT: I-75 (SR 93) AT SR 25 (US 41) **HAMMER TYPE:** AUTOMATIC
CLIENT: OSIRIS 9 CONSULTING, LLC **STATION:** 541+09
PROJECT NO.: 364-13-24-01 **OFFSET:** 387 FEET LEFT
PROJECT LOCATION: COLUMBIA COUNTY, FLORIDA **ELEVATION (FEET):** 69.0
BORING NO.: ORW-35 **DATE:** 01/07/2025
DRILLER: H. WILLIAMS **FLUID LOSS:** NONE
DEPTH TO WATER (FEET): INITIAL: ▽ >10.5 **24 HR:** ▽ >10.5 **CASING DEPTH (FEET):** NONE

DEPTH (METERS)	DEPTH (FEET)	SAMPLE	SYMBOL	DESCRIPTION	AASHTO	TEST RESULTS	Wc (%)	N
0	0			MEDIUM DENSE DARK GRAY ORGANIC SILTY FINE SAND	A-2-4	ORG%= 5.6	8	--
	2			MEDIUM DENSE GRAY SILTY FINE SAND	A-2-4	-200%=16 ORG%= 2.0	10	9
						ORG%= 0.5	4	9
1				LOOSE GRAY SILTY FINE SAND	A-2-4	ORG%= 1.0	8	8
	4			MEDIUM DENSE GRAY AND ORANGE CLAYEY FINE SAND	A-2-6	-200%=34 LL=33 PI=19	17	9
				LOOSE ORANGE CLAYEY FINE SAND	A-2-6		17	8
2	6						14	15
	8			MEDIUM DENSE ORANGE CLAYEY FINE SAND	A-2-6		16	19
3	10						20	12
	12							
4								
	14							

Wc (%) axis: 10, 20, 30, 40, 60
N-Value axis: 10, 20, 30, 40, 60, 80

This information pertains only to this boring and should not be interpreted as being indicitive of the site.

NOTES: N/M MEANS NOT MEASURED
N/A MEANS NOT AVAILABLE

ENVIRONMENTAL & GEOTECHNICAL SPECIALISTS, INC.

3772 Kori Road
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PROJECT: I-75 (SR 93) AT SR 25 (US 41) **HAMMER TYPE:** AUGER
CLIENT: OSIRIS 9 CONSULTING, LLC **STATION:** 540+64
PROJECT NO.: 364-13-24-01 **OFFSET:** 486 FEET LEFT
PROJECT LOCATION: COLUMBIA COUNTY, FLORIDA **ELEVATION (FEET):** 71.1
BORING NO.: ORW-36 **DATE:** 01/06/2025
DRILLER: H. WILLIAMS **FLUID LOSS:** NONE
DEPTH TO WATER (FEET): INITIAL: ▽ >5.5 **24 HR:** ▼ >5.5 **CASING DEPTH (FEET):** NONE

DEPTH (METERS)	DEPTH (FEET)	SAMPLE	SYMBOL	DESCRIPTION	AASHTO	TEST RESULTS	Wc (%)	N
0	0			LOOSE GRAY SILTY FINE SAND	A-2-4		8	--
						-200%=9	4	9
	2						6	9
1				LOOSE GRAY FINE SAND	A-3		6	8
	4						5	8
							6	5
2	6							
	8							
3	10							
	12							
4								
	14							

Wc (%): 10 20 30 40 60

N-Value: 10 20 30 40 60 80

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NOTES: N/M MEANS NOT MEASURED
N/A MEANS NOT AVAILABLE

ENVIRONMENTAL & GEOTECHNICAL SPECIALISTS, INC.
3772 Kori Road
Jacksonville, Florida 32257
Office: (904) 329-7180

PROJECT: I-75 (SR 93) AT SR 25 (US 41) | **HAMMER TYPE:** AUTOMATIC
CLIENT: OSIRIS 9 CONSULTING, LLC | **STATION:** 541+05
PROJECT NO.: 364-13-24-01 | **OFFSET:** 488 FEET LEFT
PROJECT LOCATION: COLUMBIA COUNTY, FLORIDA | **ELEVATION (FEET):** 68.8
BORING NO.: ORW-37 | **DATE:** 01/07/2025
DRILLER: H. WILLIAMS | **FLUID LOSS:** NONE
DEPTH TO WATER (FEET): INITIAL: ▽ >20.0 **24 HR:** ▼ >20.0 **CASING DEPTH (FEET):** NONE

DEPTH (METERS)	DEPTH (FEET)	SAMPLE	SYMBOL	DESCRIPTION	AASHTO	TEST RESULTS	Wc (%)	N
0	0			MEDIUM DENSE DARK GRAY SILTY FINE SAND WITH ORGANICS	A-2-4	ORG%=4.1	32	--
				MEDIUM DENSE GRAY SILTY FINE SAND	A-2-4	-200%=27	15	9
	2			MEDIUM DENSE GRAY PLASTIC CLAYEY SAND	A-7-6		18	9
1							20	9
	4			LOOSE GRAY PLASTIC CLAYEY SAND	A-7-6		18	8
							15	8
2	6			MEDIUM DENSE GRAY PLASTIC CLAYEY SAND	A-7-6	-200%=36 LL=46 PI=25	16	14
	8						23	13
3	10						26	16
							21	18
	12							
4						-200%=31	28	14
	14							

Wc (%) axis: 10, 20, 30, 40, 60
N-Value axis: 10, 20, 30, 40, 60, 80

This information pertains only to this boring and should not be interpreted as being indicitive of the site.

NOTES: N/M MEANS NOT MEASURED
N/A MEANS NOT AVAILABLE

ENVIRONMENTAL & GEOTECHNICAL SPECIALISTS, INC.

3772 Kori Road
Jacksonville, Florida 32257
Office: (904) 329-7180

PROJECT: I-75 (SR 93) AT SR 25 (US 41)
CLIENT: OSIRIS 9 CONSULTING, LLC
PROJECT NO.: 364-13-24-01
PROJECT LOCATION: COLUMBIA COUNTY, FLORIDA
BORING NO.: ORW-37
DRILLER: H. WILLIAMS
DEPTH TO WATER (FEET): INITIAL: ▽ >20.0 **24 HR:** ▽ >20.0

HAMMER TYPE: AUTOMATIC
STATION: 541+05
OFFSET: 488 FEET LEFT
ELEVATION (FEET): 68.8
DATE: 01/07/2025
FLUID LOSS: NONE
CASING DEPTH (FEET): NONE

DEPTH (METERS)	DEPTH (FEET)	SAMPLE	SYMBOL	DESCRIPTION	AASHTO	TEST RESULTS	Wc (%)	N	N-Value
5	16			MEDIUM DENSE GRAY PLASTIC CLAYEY FINE SAND	A-2-7		28	16	
6	18						24	14	
	20								
7	22								
	24								
8	26								
	28								

Wc (%) scale: 10, 20, 30, 40, 60
N-Value scale: 10, 20, 30, 40, 60, 80

NOTES: N/M MEANS NOT MEASURED
N/A MEANS NOT AVAILABLE

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ENVIRONMENTAL & GEOTECHNICAL SPECIALISTS, INC.
3772 Kori Road
Jacksonville, Florida 32257
Office: (904) 329-7180

PROJECT: I-75 (SR 93) AT SR 25 (US 41) **HAMMER TYPE:** AUTOMATIC
CLIENT: OSIRIS 9 CONSULTING, LLC **STATION:** 540+71
PROJECT NO.: 364-13-24-01 **OFFSET:** 586 FEET LEFT
PROJECT LOCATION: COLUMBIA COUNTY, FLORIDA **ELEVATION (FEET):** 71.6
BORING NO.: ORW-38 **DATE:** 01/06/2025
DRILLER: H. WILLIAMS **FLUID LOSS:** NONE
DEPTH TO WATER (FEET): INITIAL: ▽ >10.5 **24 HR:** ▼ >10.5 **CASING DEPTH (FEET):** NONE

DEPTH (METERS)	DEPTH (FEET)	SAMPLE	SYMBOL	DESCRIPTION	AASHTO	TEST RESULTS	Wc (%)	N
0	0						7	--
						-200%=13	7	13
	2			MEDIUM DENSE GRAY SILTY FINE SAND	A-2-4		6	10
1							6	10
	4						15	9
				MEDIUM DENSE GRAY CLAYEY FINE SAND	A-2-6		19	9
	6					-200%=45 LL=53 PI=32	23	11
2								
	8			MEDIUM DENSE GRAY AND ORANGE HIGHLY PLASTIC CLAYEY SAND	A-7-6		30	11
3	10						25	10
	12							
4								
	14							

Wc (%) axis: 10, 20, 30, 40, 60
N-Value axis: 10, 20, 30, 40, 60, 80

This information pertains only to this boring and should not be interpreted as being indicitive of the site.

NOTES: N/M MEANS NOT MEASURED
N/A MEANS NOT AVAILABLE

ENVIRONMENTAL & GEOTECHNICAL SPECIALISTS, INC.

3772 Kori Road
Jacksonville, Florida 32257
Office: (904) 329-7180

PROJECT: I-75 (SR 93) AT SR 25 (US 41) **HAMMER TYPE:** AUGER
CLIENT: OSIRIS 9 CONSULTING, LLC **STATION:** 541+18
PROJECT NO.: 364-13-24-01 **OFFSET:** 587 FEET LEFT
PROJECT LOCATION: COLUMBIA COUNTY, FLORIDA **ELEVATION (FEET):** 69.4
BORING NO.: ORW-39 **DATE:** 01/07/2025
DRILLER: H. WILLIAMS **FLUID LOSS:** NONE
DEPTH TO WATER (FEET): INITIAL: ▽ >5.5 **24 HR:** ▼ >5.5 **CASING DEPTH (FEET):** NONE

DEPTH (METERS)	DEPTH (FEET)	SAMPLE	SYMBOL	DESCRIPTION	AASHTO	TEST RESULTS	Wc (%)	Wc (%)	N	N-Value
0	0			LOOSE DARK GRAY SILTY FINE SAND WITH ORGANICS	A-2-4	ORG%= 4.4	29		--	--
						-200%=32 LL=33 PI=18	19		10	
	2						18		10	
1				LOOSE GRAY CLAYEY FINE SAND	A-2-6		21		9	
	4						23		8	
							20		8	
2	6									
	8									
3	10									
	12									
4	14									

Wc (%) axis: 10 20 30 40 60
N-Value axis: 10 20 30 40 60 80

NOTES: N/M MEANS NOT MEASURED
N/A MEANS NOT AVAILABLE

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ENVIRONMENTAL & GEOTECHNICAL SPECIALISTS, INC.

3772 Kori Road
Jacksonville, Florida 32257
Office: (904) 329-7180

PROJECT: I-75 (SR 93) AT SR 25 (US 41) **HAMMER TYPE:** AUTOMATIC
CLIENT: OSIRIS 9 CONSULTING, LLC **STATION:** 540+91
PROJECT NO.: 364-13-24-01 **OFFSET:** 684 FEET LEFT
PROJECT LOCATION: COLUMBIA COUNTY, FLORIDA **ELEVATION (FEET):** 72.1
BORING NO.: ORW-40 **DATE:** 01/07/2025
DRILLER: H. WILLIAMS **FLUID LOSS:** NONE
DEPTH TO WATER (FEET): INITIAL: ▽ >20.0 **24 HR:** ▼ >20.0 **CASING DEPTH (FEET):** NONE

DEPTH (METERS)	DEPTH (FEET)	SAMPLE	SYMBOL	DESCRIPTION	AASHTO	TEST RESULTS	Wc (%)	N
0	0						9	--
							12	10
	2			MEDIUM DENSE GRAY SILTY FINE SAND	A-2-4		10	9
1						-200%=24	17	9
	4						14	9
							17	9
	6			MEDIUM DENSE GRAY CLAYEY FINE SAND	A-2-6			
2							14	22
	8			DENSE GRAY CLAYEY FINE SAND	A-2-6		14	26
							11	23
3	10							
							10	22
	12			MEDIUM DENSE GRAY CLAYEY FINE SAND	A-2-6			
4						-200%=27 LL=39 PI=25	19	14
	14							

Wc (%) axis: 10, 20, 30, 40, 60
N-Value axis: 10, 20, 30, 40, 60, 80

This information pertains only to this boring and should not be interpreted as being indicitive of the site.

NOTES: N/M MEANS NOT MEASURED
N/A MEANS NOT AVAILABLE

ENVIRONMENTAL & GEOTECHNICAL SPECIALISTS, INC.

3772 Kori Road
Jacksonville, Florida 32257
Office: (904) 329-7180

PROJECT: I-75 (SR 93) AT SR 25 (US 41) **HAMMER TYPE:** AUTOMATIC
CLIENT: OSIRIS 9 CONSULTING, LLC **STATION:** 540+91
PROJECT NO.: 364-13-24-01 **OFFSET:** 684 FEET LEFT
PROJECT LOCATION: COLUMBIA COUNTY, FLORIDA **ELEVATION (FEET):** 72.1
BORING NO.: ORW-40 **DATE:** 01/07/2025
DRILLER: H. WILLIAMS **FLUID LOSS:** NONE
DEPTH TO WATER (FEET): INITIAL: ▽ >20.0 **24 HR:** ▽ >20.0 **CASING DEPTH (FEET):** NONE

DEPTH (METERS)	DEPTH (FEET)	SAMPLE	SYMBOL	DESCRIPTION	AASHTO	TEST RESULTS	Wc (%)	Wc (%)	N	N-Value
								10 20 30 40 60		10 20 30 40 60 80
	16						21		12	
5				MEDIUM DENSE GRAY PLASTIC CLAYEY SAND	A-7-6					
	18						17		12	
6	20									
	22									
7										
	24									
	26									
8										
	28									

NOTES: N/M MEANS NOT MEASURED
N/A MEANS NOT AVAILABLE

This information pertains only to this boring and should not be interpreted as being indicitive of the site.

ENVIRONMENTAL & GEOTECHNICAL SPECIALISTS, INC.
3772 Kori Road
Jacksonville, Florida 32257
Office: (904) 329-7180

PROJECT: I-75 (SR 93) AT SR 25 (US 41) | **HAMMER TYPE:** AUTOMATIC
CLIENT: OSIRIS 9 CONSULTING, LLC | **STATION:** 541+32
PROJECT NO.: 364-13-24-01 | **OFFSET:** 686 FEET LEFT
PROJECT LOCATION: COLUMBIA COUNTY, FLORIDA | **ELEVATION (FEET):** 70.0
BORING NO.: ORW-41 | **DATE:** 01/07/2025
DRILLER: H. WILLIAMS | **FLUID LOSS:** NONE
DEPTH TO WATER (FEET): INITIAL: ▽ >10.5 **24 HR:** ▽ >10.5 **CASING DEPTH (FEET):** NONE

DEPTH (METERS)	DEPTH (FEET)	SAMPLE	SYMBOL	DESCRIPTION	AASHTO	TEST RESULTS	Wc (%)	N
0	0			MEDIUM DENSE GRAY FINE SAND	A-3	-200%=8	8	--
							6	10
	2						9	10
1				LOOSE GRAY FINE SAND	A-3		13	8
	4			MEDIUM DENSE GRAY AND ORANGE HIGHLY PLASTIC CLAYEY SAND	A-7-6	-200%=37 LL=58 PI=35	23	9
							26	9
2	6						27	11
	8						26	15
3	10						18	13
	12							
4								
	14							

Wc (%) axis: 10, 20, 30, 40, 60
N-Value axis: 10, 20, 30, 40, 60, 80

This information pertains only to this boring and should not be interpreted as being indicitive of the site.

NOTES: N/M MEANS NOT MEASURED
N/A MEANS NOT AVAILABLE

APPENDIX C

SOIL CLASSIFICATION DATA

SOIL CLASSIFICATION DATA

Project: I-75 (SR 93) AT SR 25 (US 41)

Client: OSIRIS 9 CONSULTING, LLC **Project No.: 364-13-24-01**

Boring: ORW-1 **Location: COLUMBIA COUNTY, FLORIDA**

DEPTH (FEET)	Wc (%)	-4 (%)	-10 (%)	-20 (%)	-40 (%)	-60 (%)	-100 (%)	-200 (%)	LL	PI	Org. (%)	N Value	AASHTO	Mat. No.	Description
0.0-0.5	5											--	A-2-4	2	LOOSE GRAY SILTY FINE SAND
1.0-1.5	3	100	100	99	94	79	47	13				7	A-2-4	2	LOOSE GRAY SILTY FINE SAND
2.0-2.5	3											5	A-2-4	2	LOOSE GRAY SILTY FINE SAND
3.0-3.5	3											4	A-2-4	2	LOOSE GRAY SILTY FINE SAND
4.0-4.5	2											5	A-2-4	2	LOOSE GRAY SILTY FINE SAND
5.0-5.5	7											7	A-2-4	2	LOOSE GRAY SILTY FINE SAND
6.0-7.5	15	100	100	99	96	85	62	34	27	12		5	A-2-6	4	LOOSE BROWN AND ORANGE CLAYEY FINE SAND
7.5-9.0	17											9	A-2-6	4	MEDIUM DENSE BROWN AND ORANGE CLAYEY FINE SAND
9.0-10.5	18											14	A-2-6	4	MEDIUM DENSE BROWN AND ORANGE CLAYEY FINE SAND

SOIL CLASSIFICATION DATA

Project: I-75 (SR 93) AT SR 25 (US 41)

Client: OSIRIS 9 CONSULTING, LLC **Project No.: 364-13-24-01**

Boring: ORW-2 **Location: COLUMBIA COUNTY, FLORIDA**

DEPTH (FEET)	Wc (%)	-4 (%)	-10 (%)	-20 (%)	-40 (%)	-60 (%)	-100 (%)	-200 (%)	LL	PI	Org. (%)	N Value	AASHTO	Mat. No.	Description
0.0-0.5	7											--	A-2-4	2	MEDIUM DENSE GRAY SILTY FINE SAND
1.0-1.5	5	99	98	96	91	78	47	18				13	A-2-4	2	MEDIUM DENSE GRAY SILTY FINE SAND
2.0-2.5	4											8	A-2-4	2	LOOSE GRAY SILTY FINE SAND
3.0-3.5	4											9	A-2-4	2	MEDIUM DENSE GRAY SILTY FINE SAND
4.0-4.5	9											8	A-2-4	2	LOOSE GRAY SILTY FINE SAND
5.0-5.5	17											8	A-6	4	LOOSE GRAY AND ORANGE CLAYEY SAND
6.0-7.5	19	100	100	100	98	92	63	41	38	18		11	A-6	4	MEDIUM DENSE GRAY AND ORANGE CLAYEY SAND
7.5-9.0	20											22	A-6	4	MEDIUM DENSE GRAY AND ORANGE CLAYEY SAND
9.0-10.5	26											12	A-6	4	MEDIUM DENSE GRAY AND ORANGE CLAYEY SAND
10.5-12.0	26											8	A-6	4	LOOSE GRAY AND ORANGE CLAYEY SAND
12.5-14.0	24											8	A-6	4	LOOSE GRAY AND ORANGE CLAYEY SAND
15.0-16.5	26	100	100	100	99	92	47	31				5	A-2-6	4	LOOSE GRAY AND ORANGE CLAYEY FINE SAND
18.0-20.0	30											10	A-2-6	4	MEDIUM DENSE GRAY AND ORANGE

SOIL CLASSIFICATION DATA

Project: I-75 (SR 93) AT SR 25 (US 41)

Client: OSIRIS 9 CONSULTING, LLC **Project No.: 364-13-24-01**

Boring: ORW-2 **Location: COLUMBIA COUNTY, FLORIDA**

DEPTH (FEET)	Wc (%)	-4 (%)	-10 (%)	-20 (%)	-40 (%)	-60 (%)	-100 (%)	-200 (%)	LL	PI	Org. (%)	N Value	AASHTO	Mat. No.	Description
															CLAYEY FINE SAND

SOIL CLASSIFICATION DATA

Project: I-75 (SR 93) AT SR 25 (US 41)

Client: OSIRIS 9 CONSULTING, LLC **Project No.: 364-13-24-01**

Boring: ORW-3 **Location: COLUMBIA COUNTY, FLORIDA**

DEPTH (FEET)	Wc (%)	-4 (%)	-10 (%)	-20 (%)	-40 (%)	-60 (%)	-100 (%)	-200 (%)	LL	PI	Org. (%)	N Value	AASHTO	Mat. No.	Description
0.0-0.5	4											--	A-2-4	2	MEDIUM DENSE GRAY SILTY FINE SAND
1.0-1.5	4	87	84	81	76	65	43	18				13	A-2-4	2	MEDIUM DENSE GRAY SILTY FINE SAND
2.0-2.5	6											13	A-2-4	2	MEDIUM DENSE GRAY SILTY FINE SAND
3.0-3.5	17	100	100	99	97	86	49	27	32	18		8	A-2-6	4	LOOSE GRAY CLAYEY FINE SAND
4.0-4.5	24											8	A-6	4	LOOSE GRAY CLAYEY SAND
5.0-5.5	21											9	A-6	4	LOOSE GRAY CLAYEY SAND

SOIL CLASSIFICATION DATA

Project: I-75 (SR 93) AT SR 25 (US 41)

Client: OSIRIS 9 CONSULTING, LLC **Project No.: 364-13-24-01**

Boring: ORW-4 **Location: COLUMBIA COUNTY, FLORIDA**

DEPTH (FEET)	Wc (%)	-4 (%)	-10 (%)	-20 (%)	-40 (%)	-60 (%)	-100 (%)	-200 (%)	LL	PI	Org. (%)	N Value	AASHTO	Mat. No.	Description
0.0-0.5	--											--	--	A	ASPHALT BASE
1.0-1.5	6	97	95	94	89	74	44	14				13	A-2-4	2	MEDIUM DENSE GRAY SILTY FINE SAND
2.0-2.5	8										0.9	12	A-2-4	2	MEDIUM DENSE GRAY SILTY FINE SAND
3.0-3.5	11										1.4	10	A-2-4	2	MEDIUM DENSE GRAY SILTY FINE SAND
4.0-4.5	19	100	100	99	99	92	45	30	44	28		9	A-2-7	4	MEDIUM DENSE GRAY PLASTIC CLAYEY FINE SAND
5.0-5.5	21											9	A-2-7	4	MEDIUM DENSE GRAY PLASTIC CLAYEY FINE SAND
6.0-7.5	23											9	A-2-7	4	MEDIUM DENSE GRAY PLASTIC CLAYEY FINE SAND
7.5-9.0	18											8	A-2-7	4	LOOSE GRAY PLASTIC CLAYEY FINE SAND
9.0-10.5	16											6	A-2-7	4	LOOSE GRAY PLASTIC CLAYEY FINE SAND

SOIL CLASSIFICATION DATA

Project: I-75 (SR 93) AT SR 25 (US 41)

Client: OSIRIS 9 CONSULTING, LLC **Project No.: 364-13-24-01**

Boring: ORW-5 **Location: COLUMBIA COUNTY, FLORIDA**

DEPTH (FEET)	Wc (%)	-4 (%)	-10 (%)	-20 (%)	-40 (%)	-60 (%)	-100 (%)	-200 (%)	LL	PI	Org. (%)	N Value	AASHTO	Mat. No.	Description
0.0-0.5	4											--	A-2-4	3	MEDIUM DENSE GRAY SILTY FINE SAND
1.0-1.5	11	99	98	97	95	83	47	20				12	A-2-4	3	MEDIUM DENSE GRAY SILTY FINE SAND
2.0-2.5	21	100	100	100	99	92	59	33	37	20		8	A-2-6	4	LOOSE GRAY AND ORANGE CLAYEY FINE SAND
3.0-3.5	26											8	A-2-6	4	LOOSE GRAY AND ORANGE CLAYEY FINE SAND
4.0-4.5	29											8	A-2-6	4	LOOSE GRAY AND ORANGE CLAYEY FINE SAND
5.0-5.5	27											8	A-2-6	4	LOOSE GRAY AND ORANGE CLAYEY FINE SAND
6.0-7.5	31											11	A-2-6	4	MEDIUM DENSE GRAY AND ORANGE CLAYEY FINE SAND
7.5-9.0	20											10	A-2-6	4	MEDIUM DENSE GRAY AND ORANGE CLAYEY FINE SAND
9.0-10.5	19											11	A-2-6	4	MEDIUM DENSE GRAY AND ORANGE CLAYEY FINE SAND

SOIL CLASSIFICATION DATA

Project: I-75 (SR 93) AT SR 25 (US 41)

Client: OSIRIS 9 CONSULTING, LLC **Project No.: 364-13-24-01**

Boring: ORW-6 **Location: COLUMBIA COUNTY, FLORIDA**

DEPTH (FEET)	Wc (%)	-4 (%)	-10 (%)	-20 (%)	-40 (%)	-60 (%)	-100 (%)	-200 (%)	LL	PI	Org. (%)	N Value	AASHTO	Mat. No.	Description
0.0-0.5	5										5.3	--	A-2-4	7	MEDIUM DENSE DARK GRAY ORGANIC SILTY FINE SAND
1.0-1.5	6	100	100	100	97	88	59	22			1.6	9	A-2-4	3	MEDIUM DENSE GRAY SILTY FINE SAND
2.0-2.5	9										1.1	8	A-2-4	3	LOOSE GRAY SILTY FINE SAND
3.0-3.5	21	100	100	100	99	91	46	29	38	23		7	A-2-6	4	LOOSE GRAY AND ORANGE CLAYEY FINE SAND
4.0-4.5	18											8	A-2-6	4	LOOSE GRAY AND ORANGE CLAYEY FINE SAND
5.0-5.5	21											8	A-2-6	4	LOOSE GRAY AND ORANGE CLAYEY FINE SAND
6.0-7.5	21											10	A-2-6	4	MEDIUM DENSE GRAY AND ORANGE CLAYEY FINE SAND
7.5-9.0	21											14	A-2-6	4	MEDIUM DENSE GRAY AND ORANGE CLAYEY FINE SAND
9.0-10.5	21											11	A-2-6	4	MEDIUM DENSE GRAY AND ORANGE CLAYEY FINE SAND
10.5-12.0	24											10	A-2-6	4	MEDIUM DENSE GRAY AND ORANGE CLAYEY FINE SAND
12.5-14.0	25											12	A-2-6	4	MEDIUM DENSE GRAY AND ORANGE CLAYEY FINE SAND
15.0-16.5	30	100	100	100	100	94	67	30				14	A-2-4	3	MEDIUM DENSE GRAY SILTY FINE SAND
18.0-20.0	27											10	A-2-4	3	MEDIUM DENSE GRAY

SOIL CLASSIFICATION DATA

Project: I-75 (SR 93) AT SR 25 (US 41)

Client: OSIRIS 9 CONSULTING, LLC **Project No.: 364-13-24-01**

Boring: ORW-6 **Location: COLUMBIA COUNTY, FLORIDA**

DEPTH (FEET)	Wc (%)	-4 (%)	-10 (%)	-20 (%)	-40 (%)	-60 (%)	-100 (%)	-200 (%)	LL	PI	Org. (%)	N Value	AASHTO	Mat. No.	Description
															SILTY FINE SAND

SOIL CLASSIFICATION DATA

Project: I-75 (SR 93) AT SR 25 (US 41)

Client: OSIRIS 9 CONSULTING, LLC **Project No.: 364-13-24-01**

Boring: ORW-7 **Location: COLUMBIA COUNTY, FLORIDA**

DEPTH (FEET)	Wc (%)	-4 (%)	-10 (%)	-20 (%)	-40 (%)	-60 (%)	-100 (%)	-200 (%)	LL	PI	Org. (%)	N Value	AASHTO	Mat. No.	Description
0.0-0.5	14	86	81	77	71	63	45	22			5.3	--	A-2-4	7	MEDIUM DENSE DARK GRAY ORGANIC SILTY FINE SAND
1.0-1.5	--											--	--	LR	LIMEROCK BASE
2.0-2.5	9										1.2	9	A-2-4	2	MEDIUM DENSE GRAY SILTY FINE SAND
3.0-3.5	11										0.8	9	A-2-4	2	MEDIUM DENSE GRAY SILTY FINE SAND
4.0-4.5	22	100	100	100	99	97	59	36	48	28		8	A-7-6	4	LOOSE GRAY PLASTIC CLAYEY SAND
5.0-5.5	29											8	A-7-6	4	LOOSE GRAY PLASTIC CLAYEY SAND
6.0-7.5	25											14	A-7-6	4	MEDIUM DENSE GRAY PLASTIC CLAYEY SAND
7.5-9.0	23											12	A-7-6	4	MEDIUM DENSE GRAY PLASTIC CLAYEY SAND
9.0-10.5	19											12	A-7-6	4	MEDIUM DENSE GRAY PLASTIC CLAYEY SAND

SOIL CLASSIFICATION DATA

Project: I-75 (SR 93) AT SR 25 (US 41)

Client: OSIRIS 9 CONSULTING, LLC **Project No.: 364-13-24-01**

Boring: ORW-8 **Location: COLUMBIA COUNTY, FLORIDA**

DEPTH (FEET)	Wc (%)	-4 (%)	-10 (%)	-20 (%)	-40 (%)	-60 (%)	-100 (%)	-200 (%)	LL	PI	Org. (%)	N Value	AASHTO	Mat. No.	Description
0.0-0.5	22										5.4	--	A-2-4	7	MEDIUM DENSE DARK GRAY ORGANIC SILTY FINE SAND
1.0-1.5	9	98	97	95	91	78	48	16			0.8	10	A-2-4	2	MEDIUM DENSE GRAY SILTY FINE SAND
2.0-2.5	13											9	A-2-4	2	MEDIUM DENSE GRAY SILTY FINE SAND
3.0-3.5	12											9	A-2-4	2	MEDIUM DENSE GRAY SILTY FINE SAND
4.0-4.5	24											8	A-6	4	LOOSE GRAY AND ORANGE CLAYEY SAND
5.0-5.5	19											9	A-6	4	MEDIUM DENSE GRAY AND ORANGE CLAYEY SAND
6.0-7.5	21	100	100	100	99	88	57	32	46	28		11	A-2-7	4	MEDIUM DENSE GRAY AND ORANGE PLASTIC CLAYEY FINE SAND
7.5-9.0	20											12	A-2-7	4	MEDIUM DENSE GRAY AND ORANGE PLASTIC CLAYEY FINE SAND
9.0-10.5	22											12	A-2-7	4	MEDIUM DENSE GRAY AND ORANGE PLASTIC CLAYEY FINE SAND

SOIL CLASSIFICATION DATA

Project: I-75 (SR 93) AT SR 25 (US 41)

Client: OSIRIS 9 CONSULTING, LLC **Project No.: 364-13-24-01**

Boring: ORW-9 **Location: COLUMBIA COUNTY, FLORIDA**

DEPTH (FEET)	Wc (%)	-4 (%)	-10 (%)	-20 (%)	-40 (%)	-60 (%)	-100 (%)	-200 (%)	LL	PI	Org. (%)	N Value	AASHTO	Mat. No.	Description
0.0-0.5	2											--	A-2-4	2	LOOSE GRAY SILTY FINE SAND
1.0-1.5	3	100	100	100	97	87	59	19				10	A-2-4	2	LOOSE GRAY SILTY FINE SAND
2.0-2.5	4											8	A-2-4	2	LOOSE GRAY SILTY FINE SAND
3.0-3.5	3											8	A-2-4	2	LOOSE GRAY SILTY FINE SAND
4.0-4.5	4											10	A-2-4	2	LOOSE GRAY SILTY FINE SAND
5.0-5.5	5											8	A-2-4	2	LOOSE GRAY SILTY FINE SAND

SOIL CLASSIFICATION DATA

Project: I-75 (SR 93) AT SR 25 (US 41)

Client: OSIRIS 9 CONSULTING, LLC **Project No.: 364-13-24-01**

Boring: ORW-10 **Location: COLUMBIA COUNTY, FLORIDA**

DEPTH (FEET)	Wc (%)	-4 (%)	-10 (%)	-20 (%)	-40 (%)	-60 (%)	-100 (%)	-200 (%)	LL	PI	Org. (%)	N Value	AASHTO	Mat. No.	Description
0.0-0.5	8										2.0	--	A-3	1	MEDIUM DENSE GRAY FINE SAND
1.0-1.5	7	100	100	100	96	80	42	10			0.9	10	A-3	1	MEDIUM DENSE GRAY FINE SAND
2.0-2.5	11											7	A-3	1	LOOSE GRAY FINE SAND
3.0-3.5	14											7	A-3	1	LOOSE GRAY FINE SAND
4.0-4.5	9											7	A-3	1	LOOSE GRAY FINE SAND
5.0-5.5	18	100	100	100	99	90	49	29	33	16		8	A-2-6	4	LOOSE ORANGE CLAYEY FINE SAND
6.0-7.5	24											13	A-2-6	4	MEDIUM DENSE ORANGE CLAYEY FINE SAND
7.5-9.0	21											12	A-2-6	4	MEDIUM DENSE ORANGE CLAYEY FINE SAND
9.0-10.5	27											11	A-2-6	4	MEDIUM DENSE ORANGE CLAYEY FINE SAND

SOIL CLASSIFICATION DATA

Project: I-75 (SR 93) AT SR 25 (US 41)

Client: OSIRIS 9 CONSULTING, LLC **Project No.: 364-13-24-01**

Boring: ORW-11 **Location: COLUMBIA COUNTY, FLORIDA**

DEPTH (FEET)	Wc (%)	-4 (%)	-10 (%)	-20 (%)	-40 (%)	-60 (%)	-100 (%)	-200 (%)	LL	PI	Org. (%)	N Value	AASHTO	Mat. No.	Description
0.0-0.5	3										2.9	--	A-3	6	MEDIUM DENSE DARK GRAY FINE SAND WITH ORGANICS
1.0-1.5	5	100	100	100	96	79	30	10			1.4	10	A-3	1	MEDIUM DENSE GRAY FINE SAND
2.0-2.5	4											10	A-3	1	MEDIUM DENSE GRAY FINE SAND
3.0-3.5	3											10	A-3	1	MEDIUM DENSE GRAY FINE SAND
4.0-4.5	7											9	A-3	1	MEDIUM DENSE GRAY FINE SAND
5.0-5.5	17											9	A-2-4	2	MEDIUM DENSE GRAY AND ORANGE SILTY FINE SAND
6.0-7.5	29	100	100	100	99	97	79	58	74	54		13	A-7-6	5	VERY STIFF GRAY AND ORANGE HIGHLY PLASTIC SANDY CLAY
7.5-9.0	29											18	A-7-6	5	VERY STIFF GRAY AND ORANGE HIGHLY PLASTIC SANDY CLAY
9.0-10.5	29											17	A-7-6	5	VERY STIFF GRAY AND ORANGE HIGHLY PLASTIC SANDY CLAY
10.5-12.0	29											16	A-7-6	5	VERY STIFF GRAY AND ORANGE HIGHLY PLASTIC SANDY CLAY
12.5-14.0	30											18	A-7-6	5	VERY STIFF GRAY AND ORANGE HIGHLY PLASTIC SANDY CLAY
15.0-16.5	16	100	100	100	99	85	34	21				20	A-2-6	4	MEDIUM DENSE GRAY AND ORANGE CLAYEY FINE SAND
18.0-20.0	18											18	A-2-6	4	MEDIUM DENSE GRAY AND ORANGE

SOIL CLASSIFICATION DATA

Project: I-75 (SR 93) AT SR 25 (US 41)

Client: OSIRIS 9 CONSULTING, LLC **Project No.: 364-13-24-01**

Boring: ORW-11 **Location: COLUMBIA COUNTY, FLORIDA**

DEPTH (FEET)	Wc (%)	-4 (%)	-10 (%)	-20 (%)	-40 (%)	-60 (%)	-100 (%)	-200 (%)	LL	PI	Org. (%)	N Value	AASHTO	Mat. No.	Description
															CLAYEY FINE SAND

SOIL CLASSIFICATION DATA

Project: I-75 (SR 93) AT SR 25 (US 41)

Client: OSIRIS 9 CONSULTING, LLC **Project No.: 364-13-24-01**

Boring: ORW-12 **Location: COLUMBIA COUNTY, FLORIDA**

DEPTH (FEET)	Wc (%)	-4 (%)	-10 (%)	-20 (%)	-40 (%)	-60 (%)	-100 (%)	-200 (%)	LL	PI	Org. (%)	N Value	AASHTO	Mat. No.	Description
0.0-0.5	9										4.7	--	A-2-4	6	LOOSE DARK GRAY SILTY FINE SAND WITH ORGANICS
1.0-1.5	8	97	95	91	87	75	43	18				7	A-2-4	2	LOOSE GRAY SILTY FINE SAND
2.0-2.5	12											7	A-2-4	2	LOOSE GRAY SILTY FINE SAND
3.0-3.5	12											8	A-2-4	2	LOOSE GRAY SILTY FINE SAND
4.0-4.5	13											5	A-2-4	2	LOOSE GRAY SILTY FINE SAND
5.0-5.5	41	100	100	100	99	99	86	56	100	92		5	A-7-6	5	FIRM GRAY HIGHLY PLASTIC SANDY CLAY

SOIL CLASSIFICATION DATA

Project: I-75 (SR 93) AT SR 25 (US 41)

Client: OSIRIS 9 CONSULTING, LLC **Project No.: 364-13-24-01**

Boring: ORW-13 **Location: COLUMBIA COUNTY, FLORIDA**

DEPTH (FEET)	Wc (%)	-4 (%)	-10 (%)	-20 (%)	-40 (%)	-60 (%)	-100 (%)	-200 (%)	LL	PI	Org. (%)	N Value	AASHTO	Mat. No.	Description
0.0-0.5	5										2.8	--	A-2-4	6	MEDIUM DENSE DARK GRAY SILTY FINE SAND WITH ORGANICS
1.0-1.5	6	93	93	92	89	85	38	13			0.8	9	A-2-4	2	MEDIUM DENSE GRAY SILTY FINE SAND
2.0-2.5	8										1.0	9	A-2-4	2	MEDIUM DENSE GRAY SILTY FINE SAND
3.0-3.5	29											8	A-2-6	4	LOOSE GRAY AND ORANGE CLAYEY FINE SAND
4.0-4.5	24											8	A-2-6	4	LOOSE GRAY AND ORANGE CLAYEY FINE SAND
5.0-5.5	24	100	100	100	99	96	65	31	39	17		8	A-2-6	4	LOOSE GRAY AND ORANGE CLAYEY FINE SAND
6.0-7.5	18											11	A-2-6	4	MEDIUM DENSE GRAY AND ORANGE CLAYEY FINE SAND
7.5-9.0	26											14	A-2-6	4	MEDIUM DENSE GRAY AND ORANGE CLAYEY FINE SAND
9.0-10.5	20											12	A-2-6	4	MEDIUM DENSE GRAY AND ORANGE CLAYEY FINE SAND

SOIL CLASSIFICATION DATA

Project: I-75 (SR 93) AT SR 25 (US 41)

Client: OSIRIS 9 CONSULTING, LLC **Project No.: 364-13-24-01**

Boring: ORW-14 **Location: COLUMBIA COUNTY, FLORIDA**

DEPTH (FEET)	Wc (%)	-4 (%)	-10 (%)	-20 (%)	-40 (%)	-60 (%)	-100 (%)	-200 (%)	LL	PI	Org. (%)	N Value	AASHTO	Mat. No.	Description
0.0-0.5	5										5.0	--	A-2-4	7	MEDIUM DENSE DARK GRAY ORGANIC SILTY FINE SAND
1.0-1.5	9										0.9	10	A-2-4	2	MEDIUM DENSE GRAY SILTY FINE SAND
2.0-2.5	14										1.4	8	A-2-4	2	LOOSE GRAY SILTY FINE SAND
3.0-3.5	17	100	100	100	97	90	63	30	28	13		7	A-2-6	4	LOOSE GRAY AND ORANGE CLAYEY FINE SAND
4.0-4.5	21											8	A-2-6	4	LOOSE GRAY AND ORANGE CLAYEY FINE SAND
5.0-5.5	24											8	A-2-6	4	LOOSE GRAY AND ORANGE CLAYEY FINE SAND
6.0-7.5	29											11	A-2-6	4	MEDIUM DENSE GRAY AND ORANGE CLAYEY FINE SAND
7.5-9.0	28											15	A-2-6	4	MEDIUM DENSE GRAY AND ORANGE CLAYEY FINE SAND
9.0-10.5	31											14	A-2-6	4	MEDIUM DENSE GRAY AND ORANGE CLAYEY FINE SAND
10.5-12.0	28											11	A-2-6	4	MEDIUM DENSE GRAY AND ORANGE CLAYEY FINE SAND
12.5-14.0	28	99	99	99	98	88	51	23				8	A-2-6	4	LOOSE GRAY AND ORANGE CLAYEY FINE SAND
15.0-16.5	26											6	A-2-6	4	LOOSE GRAY AND ORANGE CLAYEY FINE SAND
18.0-20.0	29											8	A-2-6	4	LOOSE GRAY AND ORANGE

SOIL CLASSIFICATION DATA

Project: I-75 (SR 93) AT SR 25 (US 41)

Client: OSIRIS 9 CONSULTING, LLC **Project No.: 364-13-24-01**

Boring: ORW-14 **Location: COLUMBIA COUNTY, FLORIDA**

DEPTH (FEET)	Wc (%)	-4 (%)	-10 (%)	-20 (%)	-40 (%)	-60 (%)	-100 (%)	-200 (%)	LL	PI	Org. (%)	N Value	AASHTO	Mat. No.	Description
															CLAYEY FINE SAND

SOIL CLASSIFICATION DATA

Project: I-75 (SR 93) AT SR 25 (US 41)

Client: OSIRIS 9 CONSULTING, LLC **Project No.: 364-13-24-01**

Boring: ORW-15 **Location: COLUMBIA COUNTY, FLORIDA**

DEPTH (FEET)	Wc (%)	-4 (%)	-10 (%)	-20 (%)	-40 (%)	-60 (%)	-100 (%)	-200 (%)	LL	PI	Org. (%)	N Value	AASHTO	Mat. No.	Description
0.0-0.5	--											--	--	LR	LIMEROCK BASE
1.0-1.5	--											--	--	LR	LIMEROCK BASE
2.0-2.5	9	97	96	93	89	75	43	15				12	A-2-4	2	MEDIUM DENSE GRAY SILTY FINE SAND
3.0-3.5	11											9	A-2-4	2	MEDIUM DENSE GRAY SILTY FINE SAND
4.0-4.5	23											8	A-2-6	4	LOOSE GRAY AND ORANGE CLAYEY FINE SAND
5.0-5.5	25											8	A-2-6	4	LOOSE GRAY AND ORANGE CLAYEY FINE SAND
6.0-7.5	32											18	A-2-6	4	MEDIUM DENSE GRAY AND ORANGE CLAYEY FINE SAND
7.5-9.0	19	99	99	99	98	89	57	33				20	A-2-6	4	MEDIUM DENSE GRAY AND ORANGE CLAYEY FINE SAND
9.0-10.5	21											13	A-2-6	4	MEDIUM DENSE GRAY AND ORANGE CLAYEY FINE SAND

SOIL CLASSIFICATION DATA

Project: I-75 (SR 93) AT SR 25 (US 41)

Client: OSIRIS 9 CONSULTING, LLC **Project No.: 364-13-24-01**

Boring: ORW-16 **Location: COLUMBIA COUNTY, FLORIDA**

DEPTH (FEET)	Wc (%)	-4 (%)	-10 (%)	-20 (%)	-40 (%)	-60 (%)	-100 (%)	-200 (%)	LL	PI	Org. (%)	N Value	AASHTO	Mat. No.	Description
0.0-0.5	8											--	A-2-4	3	LOOSE GRAY SILTY FINE SAND
1.0-1.5	11	96	89	83	77	68	45	23				8	A-2-4	3	LOOSE GRAY SILTY FINE SAND
2.0-2.5	12											7	A-2-4	3	LOOSE GRAY SILTY FINE SAND
3.0-3.5	16											7	A-6	4	LOOSE GRAY AND ORANGE CLAYEY SAND
4.0-4.5	21	98	98	97	96	85	63	37				8	A-6	4	LOOSE GRAY AND ORANGE CLAYEY SAND
5.0-5.5	21											8	A-6	4	LOOSE GRAY AND ORANGE CLAYEY SAND

SOIL CLASSIFICATION DATA

Project: I-75 (SR 93) AT SR 25 (US 41)

Client: OSIRIS 9 CONSULTING, LLC **Project No.: 364-13-24-01**

Boring: ORW-17 **Location: COLUMBIA COUNTY, FLORIDA**

DEPTH (FEET)	Wc (%)	-4 (%)	-10 (%)	-20 (%)	-40 (%)	-60 (%)	-100 (%)	-200 (%)	LL	PI	Org. (%)	N Value	AASHTO	Mat. No.	Description
0.0-0.5	7											--	A-2-4	2	MEDIUM DENSE GRAY SILTY FINE SAND
1.0-1.5	3	100	100	100	96	81	41	10				9	A-3	1	MEDIUM DENSE GRAY FINE SAND
2.0-2.5	3											8	A-3	1	LOOSE GRAY FINE SAND
3.0-3.5	4											9	A-3	1	MEDIUM DENSE GRAY FINE SAND
4.0-4.5	13											9	A-3	1	MEDIUM DENSE GRAY FINE SAND
5.0-5.5	18	100	100	100	97	87	58	31	26	13		8	A-2-6	4	LOOSE GRAY AND ORANGE CLAYEY FINE SAND
6.0-7.5	21											10	A-2-6	4	MEDIUM DENSE GRAY AND ORANGE CLAYEY FINE SAND
7.5-9.0	18											15	A-2-6	4	MEDIUM DENSE GRAY AND ORANGE CLAYEY FINE SAND
9.0-10.5	20											13	A-2-6	4	MEDIUM DENSE GRAY AND ORANGE CLAYEY FINE SAND

SOIL CLASSIFICATION DATA

Project: I-75 (SR 93) AT SR 25 (US 41)

Client: OSIRIS 9 CONSULTING, LLC **Project No.: 364-13-24-01**

Boring: ORW-18 **Location: COLUMBIA COUNTY, FLORIDA**

DEPTH (FEET)	Wc (%)	-4 (%)	-10 (%)	-20 (%)	-40 (%)	-60 (%)	-100 (%)	-200 (%)	LL	PI	Org. (%)	N Value	AASHTO	Mat. No.	Description
0.0-0.5	15											--	A-2-4	2	LOOSE GRAY SILTY FINE SAND
1.0-1.5	14											8	A-2-4	2	LOOSE GRAY SILTY FINE SAND
2.0-2.5	15	100	100	100	97	87	59	34	31	19		8	A-2-6	4	LOOSE ORANGE CLAYEY FINE SAND
3.0-3.5	20											7	A-2-6	4	LOOSE ORANGE CLAYEY FINE SAND
4.0-4.5	22											7	A-2-6	4	LOOSE ORANGE CLAYEY FINE SAND
5.0-5.5	21											5	A-2-6	4	LOOSE ORANGE CLAYEY FINE SAND
6.0-7.5	20											11	A-2-6	4	MEDIUM DENSE ORANGE CLAYEY FINE SAND
7.5-9.0	21	100	100	100	99	91	52	30	53	37		13	A-2-7	5	MEDIUM DENSE GRAY AND ORANGE HIGHLY PLASTIC CLAYEY FINE SAND
9.0-10.5	30											8	A-2-7	5	LOOSE GRAY AND ORANGE HIGHLY PLASTIC CLAYEY FINE SAND
10.5-12.0	29											12	A-2-7	5	MEDIUM DENSE GRAY AND ORANGE HIGHLY PLASTIC CLAYEY FINE SAND
12.5-14.0	25											14	A-2-7	5	MEDIUM DENSE GRAY AND ORANGE HIGHLY PLASTIC CLAYEY FINE SAND
15.0-16.5	37											10	A-2-7	5	MEDIUM DENSE GRAY AND ORANGE HIGHLY PLASTIC CLAYEY FINE SAND
18.0-20.0	27											10	A-2-7	5	MEDIUM DENSE GRAY AND ORANGE

SOIL CLASSIFICATION DATA

Project: I-75 (SR 93) AT SR 25 (US 41)

Client: OSIRIS 9 CONSULTING, LLC **Project No.: 364-13-24-01**

Boring: ORW-18 **Location: COLUMBIA COUNTY, FLORIDA**

DEPTH (FEET)	Wc (%)	-4 (%)	-10 (%)	-20 (%)	-40 (%)	-60 (%)	-100 (%)	-200 (%)	LL	PI	Org. (%)	N Value	AASHTO	Mat. No.	Description
															HIGHLY PLASTIC CLAYEY FINE SAND

SOIL CLASSIFICATION DATA

Project: I-75 (SR 93) AT SR 25 (US 41)

Client: OSIRIS 9 CONSULTING, LLC **Project No.: 364-13-24-01**

Boring: ORW-19 **Location: COLUMBIA COUNTY, FLORIDA**

DEPTH (FEET)	Wc (%)	-4 (%)	-10 (%)	-20 (%)	-40 (%)	-60 (%)	-100 (%)	-200 (%)	LL	PI	Org. (%)	N Value	AASHTO	Mat. No.	Description
0.0-0.5	1											--	A-2-4	2	LOOSE GRAY SILTY FINE SAND
1.0-1.5	5	100	100	100	97	84	43	12				7	A-2-4	2	LOOSE GRAY SILTY FINE SAND
2.0-2.5	6											8	A-2-4	2	LOOSE GRAY SILTY FINE SAND
3.0-3.5	18	100	100	100	99	81	55	29				8	A-2-6	4	LOOSE ORANGE CLAYEY FINE SAND
4.0-4.5	19											7	A-2-6	4	LOOSE ORANGE CLAYEY FINE SAND
5.0-5.5	20											8	A-2-6	4	LOOSE ORANGE CLAYEY FINE SAND

SOIL CLASSIFICATION DATA

Project: I-75 (SR 93) AT SR 25 (US 41)

Client: OSIRIS 9 CONSULTING, LLC **Project No.: 364-13-24-01**

Boring: ORW-20 **Location: COLUMBIA COUNTY, FLORIDA**

DEPTH (FEET)	Wc (%)	-4 (%)	-10 (%)	-20 (%)	-40 (%)	-60 (%)	-100 (%)	-200 (%)	LL	PI	Org. (%)	N Value	AASHTO	Mat. No.	Description
0.0-0.5	4											--	A-3	1	LOOSE GRAY FINE SAND
1.0-1.5	4											8	A-3	1	LOOSE GRAY FINE SAND
2.0-2.5	5	100	100	100	97	79	40	10				8	A-3	1	LOOSE GRAY FINE SAND
3.0-3.5	20								53	32		7	A-7-6	5	LOOSE GRAY AND ORANGE HIGHLY PLASTIC CLAYEY SAND
4.0-4.5	23											7	A-7-6	5	LOOSE GRAY AND ORANGE HIGHLY PLASTIC CLAYEY SAND
5.0-5.5	25											7	A-7-6	5	LOOSE GRAY AND ORANGE HIGHLY PLASTIC CLAYEY SAND
6.0-7.5	22											11	A-7-6	5	MEDIUM DENSE GRAY AND ORANGE HIGHLY PLASTIC CLAYEY SAND
7.5-9.0	17	100	100	100	99	82	42	25				15	A-2-6	4	MEDIUM DENSE GRAY AND ORANGE CLAYEY FINE SAND
9.0-10.5	17											15	A-2-6	4	MEDIUM DENSE GRAY AND ORANGE CLAYEY FINE SAND

SOIL CLASSIFICATION DATA

Project: I-75 (SR 93) AT SR 25 (US 41)

Client: OSIRIS 9 CONSULTING, LLC **Project No.: 364-13-24-01**

Boring: ORW-21 **Location: COLUMBIA COUNTY, FLORIDA**

DEPTH (FEET)	Wc (%)	-4 (%)	-10 (%)	-20 (%)	-40 (%)	-60 (%)	-100 (%)	-200 (%)	LL	PI	Org. (%)	N Value	AASHTO	Mat. No.	Description
0.0-0.5	23										6.5	--	A-2-4	7	LOOSE DARK GRAY ORGANIC SILTY FINE SAND
1.0-1.5	15	100	100	100	97	87	71	33	27	13		5	A-2-6	4	LOOSE GRAY AND ORANGE CLAYEY FINE SAND
2.0-2.5	19											7	A-6	4	LOOSE GRAY CLAYEY SAND
3.0-3.5	17											8	A-6	4	LOOSE GRAY CLAYEY SAND
4.0-4.5	16											8	A-6	4	LOOSE GRAY CLAYEY SAND
5.0-5.5	16											8	A-6	4	LOOSE GRAY CLAYEY SAND
6.0-7.5	15											17	A-6	4	MEDIUM DENSE GRAY CLAYEY SAND
7.5-9.0	15											21	A-6	4	MEDIUM DENSE GRAY CLAYEY SAND
9.0-10.5	15											17	A-6	4	MEDIUM DENSE GRAY CLAYEY SAND
10.5-12.0	18											16	A-6	4	MEDIUM DENSE GRAY CLAYEY SAND
12.5-14.0	25	100	100	100	98	92	71	38	27	14		11	A-6	4	MEDIUM DENSE GRAY CLAYEY SAND
15.0-16.5	17											13	A-6	4	MEDIUM DENSE GRAY CLAYEY SAND
18.0-20.0	20											9	A-6	4	MEDIUM DENSE GRAY

SOIL CLASSIFICATION DATA

Project: I-75 (SR 93) AT SR 25 (US 41)

Client: OSIRIS 9 CONSULTING, LLC **Project No.: 364-13-24-01**

Boring: ORW-21 **Location: COLUMBIA COUNTY, FLORIDA**

DEPTH (FEET)	Wc (%)	-4 (%)	-10 (%)	-20 (%)	-40 (%)	-60 (%)	-100 (%)	-200 (%)	LL	PI	Org. (%)	N Value	AASHTO	Mat. No.	Description
															CLAYEY SAND

SOIL CLASSIFICATION DATA

Project: I-75 (SR 93) AT SR 25 (US 41)

Client: OSIRIS 9 CONSULTING, LLC **Project No.: 364-13-24-01**

Boring: ORW-22 **Location: COLUMBIA COUNTY, FLORIDA**

DEPTH (FEET)	Wc (%)	-4 (%)	-10 (%)	-20 (%)	-40 (%)	-60 (%)	-100 (%)	-200 (%)	LL	PI	Org. (%)	N Value	AASHTO	Mat. No.	Description
0.0-0.5	4											--	A-2-4	2	LOOSE GRAY SILTY FINE SAND
1.0-1.5	13	100	100	99	96	85	62	36				8	A-7-6	4	LOOSE GRAY AND ORANGE PLASTIC CLAYEY SAND
2.0-2.5	14											8	A-7-6	4	LOOSE GRAY AND ORANGE PLASTIC CLAYEY SAND
3.0-3.5	12											7	A-7-6	4	LOOSE GRAY AND ORANGE PLASTIC CLAYEY SAND
4.0-4.5	13											8	A-7-6	4	LOOSE GRAY PLASTIC CLAYEY SAND
5.0-5.5	17											8	A-7-6	4	LOOSE GRAY PLASTIC CLAYEY SAND

SOIL CLASSIFICATION DATA

Project: I-75 (SR 93) AT SR 25 (US 41)

Client: OSIRIS 9 CONSULTING, LLC **Project No.: 364-13-24-01**

Boring: ORW-23 **Location: COLUMBIA COUNTY, FLORIDA**

DEPTH (FEET)	Wc (%)	-4 (%)	-10 (%)	-20 (%)	-40 (%)	-60 (%)	-100 (%)	-200 (%)	LL	PI	Org. (%)	N Value	AASHTO	Mat. No.	Description
0.0-0.5	7											--	A-2-4	2	MEDIUM DENSE GRAY SILTY FINE SAND
1.0-1.5	3	100	100	99	96	83	39	15				10	A-2-4	2	MEDIUM DENSE GRAY SILTY FINE SAND
2.0-2.5	3											9	A-2-4	2	MEDIUM DENSE GRAY SILTY FINE SAND
3.0-3.5	20	100	100	99	98	91	53	36	48	34		8	A-7-6	4	LOOSE GRAY AND ORANGE PLASTIC CLAYEY SAND
4.0-4.5	17											8	A-7-6	4	LOOSE GRAY AND ORANGE PLASTIC CLAYEY SAND
5.0-5.5	21											8	A-7-6	4	LOOSE GRAY AND ORANGE PLASTIC CLAYEY SAND
6.0-7.5	22											13	A-7-6	4	MEDIUM DENSE GRAY AND ORANGE PLASTIC CLAYEY SAND
7.5-9.0	21											16	A-7-6	4	MEDIUM DENSE GRAY AND ORANGE PLASTIC CLAYEY SAND
9.0-10.5	21											9	A-7-6	4	MEDIUM DENSE GRAY AND ORANGE PLASTIC CLAYEY SAND
10.5-12.0	30											7	A-7-6	4	LOOSE GRAY AND ORANGE PLASTIC CLAYEY SAND
12.5-14.0	37	100	100	100	99	95	73	37				6	A-7-6	4	LOOSE GRAY AND ORANGE PLASTIC CLAYEY SAND
15.0-16.5	33											5	A-7-6	4	LOOSE GRAY AND ORANGE PLASTIC CLAYEY SAND
18.0-20.0	83											5	A-7-6	4	LOOSE GRAY AND ORANGE

SOIL CLASSIFICATION DATA

Project: I-75 (SR 93) AT SR 25 (US 41)

Client: OSIRIS 9 CONSULTING, LLC **Project No.: 364-13-24-01**

Boring: ORW-23 **Location: COLUMBIA COUNTY, FLORIDA**

DEPTH (FEET)	Wc (%)	-4 (%)	-10 (%)	-20 (%)	-40 (%)	-60 (%)	-100 (%)	-200 (%)	LL	PI	Org. (%)	N Value	AASHTO	Mat. No.	Description
															PLASTIC CLAYEY SAND

SOIL CLASSIFICATION DATA

Project: I-75 (SR 93) AT SR 25 (US 41)

Client: OSIRIS 9 CONSULTING, LLC **Project No.: 364-13-24-01**

Boring: ORW-24 **Location: COLUMBIA COUNTY, FLORIDA**

DEPTH (FEET)	Wc (%)	-4 (%)	-10 (%)	-20 (%)	-40 (%)	-60 (%)	-100 (%)	-200 (%)	LL	PI	Org. (%)	N Value	AASHTO	Mat. No.	Description
0.0-0.5	7										3.5	--	A-2-4	6	LOOSE DARK GRAY SILTY FINE SAND WITH ORGANICS
1.0-1.5	5	100	100	99	96	83	47	14			1.3	7	A-2-4	2	LOOSE GRAY SILTY FINE SAND
2.0-2.5	7										1.3	9	A-2-4	2	LOOSE GRAY SILTY FINE SAND
3.0-3.5	6										0.3	8	A-2-4	2	LOOSE GRAY SILTY FINE SAND
4.0-4.5	12											9	A-2-4	2	LOOSE GRAY SILTY FINE SAND
5.0-5.5	28	100	100	100	100	97	66	36	46	24		8	A-7-6	4	LOOSE GRAY AND ORANGE PLASTIC CLAYEY SAND

SOIL CLASSIFICATION DATA

Project: I-75 (SR 93) AT SR 25 (US 41)

Client: OSIRIS 9 CONSULTING, LLC **Project No.: 364-13-24-01**

Boring: ORW-25 **Location: COLUMBIA COUNTY, FLORIDA**

DEPTH (FEET)	Wc (%)	-4 (%)	-10 (%)	-20 (%)	-40 (%)	-60 (%)	-100 (%)	-200 (%)	LL	PI	Org. (%)	N Value	AASHTO	Mat. No.	Description
0.0-0.5	9										3.4	--	A-2-4	6	LOOSE DARK GRAY SILTY FINE SAND WITH ORGANICS
1.0-1.5	8	90	85	82	77	65	38	17			1.5	8	A-2-4	2	LOOSE GRAY SILTY FINE SAND
2.0-2.5	6											7	A-2-4	2	LOOSE GRAY SILTY FINE SAND
3.0-3.5	12											7	A-2-4	2	LOOSE GRAY SILTY FINE SAND
4.0-4.5	20											8	A-2-4	2	LOOSE GRAY SILTY FINE SAND
5.0-5.5	17	100	100	100	99	95	57	35	34	26		9	A-6	4	MEDIUM DENSE GRAY CLAYEY SAND
6.0-7.5	38											33	A-6	4	DENSE GRAY CLAYEY SAND
7.5-9.0	32											28	A-6	4	DENSE GRAY CLAYEY SAND
9.0-10.5	22											16	A-6	4	MEDIUM DENSE GRAY CLAYEY SAND

SOIL CLASSIFICATION DATA

Project: I-75 (SR 93) AT SR 25 (US 41)

Client: OSIRIS 9 CONSULTING, LLC **Project No.: 364-13-24-01**

Boring: ORW-26 **Location: COLUMBIA COUNTY, FLORIDA**

DEPTH (FEET)	Wc (%)	-4 (%)	-10 (%)	-20 (%)	-40 (%)	-60 (%)	-100 (%)	-200 (%)	LL	PI	Org. (%)	N Value	AASHTO	Mat. No.	Description
0.0-0.5	35										3.2	--	A-2-4	6	LOOSE DARK GRAY SILTY FINE SAND WITH ORGANICS
1.0-1.5	55	99	98	97	97	95	89	64	46	32		8	A-7-6	4	STIFF GRAY PLASTIC SANDY CLAY
2.0-2.5	26	100	100	100	100	100	82	35				8	A-2-4	3	LOOSE GRAY SILTY FINE SAND
3.0-3.5	31											7	A-2-4	3	LOOSE GRAY SILTY FINE SAND
4.0-4.5	30											9	A-2-4	3	MEDIUM DENSE GRAY SILTY FINE SAND
5.0-5.5	33											8	A-2-4	3	LOOSE GRAY SILTY FINE SAND
6.0-7.5	49	99	98	98	97	96	72	24	49	33		10	A-2-7	4	MEDIUM DENSE GRAY PLASTIC CLAYEY FINE SAND
7.5-9.0	25											11	A-2-7	4	MEDIUM DENSE GRAY PLASTIC CLAYEY FINE SAND
9.0-10.5	27											7	A-2-7	4	LOOSE GRAY PLASTIC CLAYEY FINE SAND

SOIL CLASSIFICATION DATA

Project: I-75 (SR 93) AT SR 25 (US 41)

Client: OSIRIS 9 CONSULTING, LLC **Project No.: 364-13-24-01**

Boring: ORW-27 **Location: COLUMBIA COUNTY, FLORIDA**

DEPTH (FEET)	Wc (%)	-4 (%)	-10 (%)	-20 (%)	-40 (%)	-60 (%)	-100 (%)	-200 (%)	LL	PI	Org. (%)	N Value	AASHTO	Mat. No.	Description
0.0-0.5	4											--	A-2-4	2	LOOSE GRAY SILTY FINE SAND
1.0-1.5	7	97	94	92	89	79	42	16				8	A-2-4	2	LOOSE GRAY SILTY FINE SAND
2.0-2.5	10											7	A-2-4	2	LOOSE GRAY SILTY FINE SAND
3.0-3.5	30											7	A-2-6	4	LOOSE GRAY CLAYEY FINE SAND
4.0-4.5	23											8	A-2-6	4	LOOSE GRAY CLAYEY FINE SAND
5.0-5.5	22	100	99	99	98	86	45	27	38	21		7	A-2-6	4	LOOSE GRAY CLAYEY FINE SAND

SOIL CLASSIFICATION DATA

Project: I-75 (SR 93) AT SR 25 (US 41)

Client: OSIRIS 9 CONSULTING, LLC **Project No.: 364-13-24-01**

Boring: ORW-28 **Location: COLUMBIA COUNTY, FLORIDA**

DEPTH (FEET)	Wc (%)	-4 (%)	-10 (%)	-20 (%)	-40 (%)	-60 (%)	-100 (%)	-200 (%)	LL	PI	Org. (%)	N Value	AASHTO	Mat. No.	Description
0.0-0.5	9										4.4	--	A-2-4	6	MEDIUM DENSE DARK GRAY SILTY FINE SAND WITH ORGANICS
1.0-1.5	6	98	93	88	82	69	38	13			1.0	9	A-2-4	2	MEDIUM DENSE GRAY SILTY FINE SAND
2.0-2.5	8											9	A-2-4	2	MEDIUM DENSE GRAY SILTY FINE SAND
3.0-3.5	12											8	A-2-4	2	LOOSE GRAY SILTY FINE SAND
4.0-4.5	32	100	100	100	99	96	62	44	56	33		7	A-7-6	5	LOOSE GRAY HIGHLY PLASTIC CLAYEY SAND
5.0-5.5	32											8	A-7-6	5	LOOSE GRAY HIGHLY PLASTIC CLAYEY SAND
6.0-7.5	27											13	A-7-6	5	MEDIUM DENSE GRAY HIGHLY PLASTIC CLAYEY SAND
7.5-9.0	21											14	A-7-6	5	MEDIUM DENSE GRAY HIGHLY PLASTIC CLAYEY SAND
9.0-10.5	26											13	A-7-6	5	MEDIUM DENSE GRAY HIGHLY PLASTIC CLAYEY SAND
10.5-12.0	21	100	100	100	100	88	82	14				13	A-2-4	2	MEDIUM DENSE GRAY SILTY FINE SAND
12.5-14.0	12											15	A-2-4	2	MEDIUM DENSE GRAY SILTY FINE SAND
15.0-16.5	29	100	99	99	98	84	46	20				10	A-2-6	4	MEDIUM DENSE GRAY CLAYEY FINE SAND
18.0-20.0	31											17	A-2-6	4	MEDIUM DENSE GRAY

SOIL CLASSIFICATION DATA

Project: I-75 (SR 93) AT SR 25 (US 41)

Client: OSIRIS 9 CONSULTING, LLC **Project No.: 364-13-24-01**

Boring: ORW-28 **Location: COLUMBIA COUNTY, FLORIDA**

DEPTH (FEET)	Wc (%)	-4 (%)	-10 (%)	-20 (%)	-40 (%)	-60 (%)	-100 (%)	-200 (%)	LL	PI	Org. (%)	N Value	AASHTO	Mat. No.	Description
															CLAYEY FINE SAND

SOIL CLASSIFICATION DATA

Project: I-75 (SR 93) AT SR 25 (US 41)

Client: OSIRIS 9 CONSULTING, LLC **Project No.: 364-13-24-01**

Boring: ORW-29 **Location: COLUMBIA COUNTY, FLORIDA**

DEPTH (FEET)	Wc (%)	-4 (%)	-10 (%)	-20 (%)	-40 (%)	-60 (%)	-100 (%)	-200 (%)	LL	PI	Org. (%)	N Value	AASHTO	Mat. No.	Description
0.0-0.5	5										2.5	--	A-2-4	6	LOOSE DARK GRAY SILTY FINE SAND WITH ORGANICS
1.0-1.5	6	97	91	84	77	62	37	16			1.3	10	A-2-4	2	LOOSE GRAY SILTY FINE SAND
2.0-2.5	7										0.6	9	A-2-4	2	LOOSE GRAY SILTY FINE SAND
3.0-3.5	9										1.2	9	A-2-4	2	LOOSE GRAY SILTY FINE SAND
4.0-4.5	15											8	A-2-4	2	LOOSE GRAY SILTY FINE SAND
5.0-5.5	25											8	A-6	4	LOOSE GRAY CLAYEY FINE SAND

SOIL CLASSIFICATION DATA

Project: I-75 (SR 93) AT SR 25 (US 41)

Client: OSIRIS 9 CONSULTING, LLC **Project No.: 364-13-24-01**

Boring: ORW-30 **Location: COLUMBIA COUNTY, FLORIDA**

DEPTH (FEET)	Wc (%)	-4 (%)	-10 (%)	-20 (%)	-40 (%)	-60 (%)	-100 (%)	-200 (%)	LL	PI	Org. (%)	N Value	AASHTO	Mat. No.	Description
0.0-0.5	6											--	A-2-4	2	MEDIUM DENSE GRAY SILTY FINE SAND
1.0-1.5	5	88	86	82	77	66	38	19				13	A-2-4	2	MEDIUM DENSE GRAY SILTY FINE SAND
2.0-2.5	4											12	A-2-4	2	MEDIUM DENSE GRAY SILTY FINE SAND
3.0-3.5	6											9	A-2-4	2	MEDIUM DENSE GRAY SILTY FINE SAND
4.0-4.5	7											8	A-2-4	2	LOOSE GRAY SILTY FINE SAND
5.0-5.5	25	100	100	100	99	88	46	25	44	22		7	A-2-7	4	LOOSE ORANGE PLASTIC CLAYEY FINE SAND
6.0-7.5	32											6	A-2-7	4	LOOSE ORANGE PLASTIC CLAYEY FINE SAND
7.5-9.0	27											10	A-2-7	4	MEDIUM DENSE ORANGE PLASTIC CLAYEY FINE SAND
9.0-10.5	18											13	A-2-7	4	MEDIUM DENSE ORANGE PLASTIC CLAYEY FINE SAND

SOIL CLASSIFICATION DATA

Project: I-75 (SR 93) AT SR 25 (US 41)

Client: OSIRIS 9 CONSULTING, LLC **Project No.: 364-13-24-01**

Boring: ORW-31 **Location: COLUMBIA COUNTY, FLORIDA**

DEPTH (FEET)	Wc (%)	-4 (%)	-10 (%)	-20 (%)	-40 (%)	-60 (%)	-100 (%)	-200 (%)	LL	PI	Org. (%)	N Value	AASHTO	Mat. No.	Description
0.0-0.5	6										3.0	--	A-2-4	6	MEDIUM DENSE DARK GRAY SILTY FINE SAND WITH ORGANICS
1.0-1.5	10	100	100	99	97	86	48	25			1.2	10	A-2-4	3	MEDIUM DENSE GRAY SILTY FINE SAND
2.0-2.5	7											9	A-2-4	3	MEDIUM DENSE GRAY SILTY FINE SAND
3.0-3.5	8											9	A-2-4	3	MEDIUM DENSE GRAY SILTY FINE SAND
4.0-4.5	22	100	100	99	97	86	48	25	27	12		5	A-2-6	4	LOOSE GRAY AND ORANGE CLAYEY FINE SAND
5.0-5.5	21											7	A-2-6	4	LOOSE GRAY AND ORANGE CLAYEY FINE SAND
6.0-7.5	26											13	A-2-6	4	MEDIUM DENSE GRAY AND ORANGE CLAYEY FINE SAND
7.5-9.0	24											17	A-2-6	4	MEDIUM DENSE GRAY AND ORANGE CLAYEY FINE SAND
9.0-10.5	29											13	A-2-6	4	MEDIUM DENSE GRAY AND ORANGE CLAYEY FINE SAND

SOIL CLASSIFICATION DATA

Project: I-75 (SR 93) AT SR 25 (US 41)

Client: OSIRIS 9 CONSULTING, LLC **Project No.: 364-13-24-01**

Boring: ORW-32 **Location: COLUMBIA COUNTY, FLORIDA**

DEPTH (FEET)	Wc (%)	-4 (%)	-10 (%)	-20 (%)	-40 (%)	-60 (%)	-100 (%)	-200 (%)	LL	PI	Org. (%)	N Value	AASHTO	Mat. No.	Description
0.0-0.5	9											--	A-2-4	2	MEDIUM DENSE GRAY SILTY FINE SAND
1.0-1.5	14	100	100	99	95	79	38	17				10	A-2-4	2	MEDIUM DENSE GRAY SILTY FINE SAND
2.0-2.5	19	100	99	99	97	86	44	31	40	20		7	A-2-7	4	LOOSE GRAY PLASTIC CLAYEY FINE SAND
3.0-3.5	26											8	A-2-7	4	LOOSE GRAY PLASTIC CLAYEY FINE SAND
4.0-4.5	27											7	A-2-7	4	LOOSE GRAY PLASTIC CLAYEY FINE SAND
5.0-5.5	22											8	A-2-7	4	LOOSE GRAY PLASTIC CLAYEY FINE SAND
6.0-7.5	27											14	A-2-7	4	MEDIUM DENSE GRAY PLASTIC CLAYEY FINE SAND
7.5-9.0	27											18	A-2-7	4	MEDIUM DENSE GRAY PLASTIC CLAYEY FINE SAND
9.0-10.5	21											16	A-2-7	4	MEDIUM DENSE GRAY PLASTIC CLAYEY FINE SAND
10.5-12.0	25											14	A-2-7	4	MEDIUM DENSE GRAY PLASTIC CLAYEY FINE SAND
12.5-14.0	29	100	100	100	99	98	73	48				17	A-7-6	4	MEDIUM DENSE GRAY PLASTIC CLAYEY SAND
15.0-16.5	32											15	A-7-6	4	MEDIUM DENSE GRAY PLASTIC CLAYEY SAND
18.0-20.0	28											12	A-7-6	4	MEDIUM DENSE GRAY

SOIL CLASSIFICATION DATA

Project: I-75 (SR 93) AT SR 25 (US 41)

Client: OSIRIS 9 CONSULTING, LLC **Project No.: 364-13-24-01**

Boring: ORW-32 **Location: COLUMBIA COUNTY, FLORIDA**

DEPTH (FEET)	Wc (%)	-4 (%)	-10 (%)	-20 (%)	-40 (%)	-60 (%)	-100 (%)	-200 (%)	LL	PI	Org. (%)	N Value	AASHTO	Mat. No.	Description
															PLASTIC CLAYEY SAND

SOIL CLASSIFICATION DATA

Project: I-75 (SR 93) AT SR 25 (US 41)

Client: OSIRIS 9 CONSULTING, LLC **Project No.: 364-13-24-01**

Boring: ORW-33 **Location: COLUMBIA COUNTY, FLORIDA**

DEPTH (FEET)	Wc (%)	-4 (%)	-10 (%)	-20 (%)	-40 (%)	-60 (%)	-100 (%)	-200 (%)	LL	PI	Org. (%)	N Value	AASHTO	Mat. No.	Description
0.0-0.5	14										17.1	--	A-2-4	7	LOOSE DARK GRAY ORGANIC SILTY FINE SAND
1.0-1.5	7	99	97	94	89	74	42	12			1.9	9	A-2-4	2	LOOSE GRAY SILTY FINE SAND
2.0-2.5	13										0.9	8	A-2-4	2	LOOSE GRAY SILTY FINE SAND
3.0-3.5	12										0.6	8	A-2-4	2	LOOSE GRAY SILTY FINE SAND
4.0-4.5	30	100	100	100	99	96	77	44				8	A-7-6	4	LOOSE GRAY PLASTIC CLAYEY SAND
5.0-5.5	20											7	A-2-4	2	LOOSE GRAY SILTY FINE SAND

SOIL CLASSIFICATION DATA

Project: I-75 (SR 93) AT SR 25 (US 41)

Client: OSIRIS 9 CONSULTING, LLC **Project No.: 364-13-24-01**

Boring: ORW-34 **Location: COLUMBIA COUNTY, FLORIDA**

DEPTH (FEET)	Wc (%)	-4 (%)	-10 (%)	-20 (%)	-40 (%)	-60 (%)	-100 (%)	-200 (%)	LL	PI	Org. (%)	N Value	AASHTO	Mat. No.	Description
0.0-0.5	7											--	A-2-4	2	MEDIUM DENSE GRAY SILTY FINE SAND
1.0-1.5	6	99	98	97	93	76	37	9				8	A-3	1	LOOSE GRAY FINE SAND
2.0-2.5	6											7	A-3	1	LOOSE GRAY FINE SAND
3.0-3.5	7											7	A-3	1	LOOSE GRAY FINE SAND
4.0-4.5	17											3	A-3	1	LOOSE GRAY FINE SAND
5.0-5.5	23	100	100	99	96	83	50	30	33	19		3	A-2-6	4	LOOSE GRAY CLAYEY FINE SAND
6.0-7.5	25											7	A-2-6	4	LOOSE GRAY CLAYEY FINE SAND
7.5-9.0	24											12	A-2-6	4	MEDIUM DENSE GRAY CLAYEY FINE SAND
9.0-10.5	23											13	A-2-6	4	MEDIUM DENSE GRAY CLAYEY FINE SAND

SOIL CLASSIFICATION DATA

Project: I-75 (SR 93) AT SR 25 (US 41)

Client: OSIRIS 9 CONSULTING, LLC **Project No.: 364-13-24-01**

Boring: ORW-35 **Location: COLUMBIA COUNTY, FLORIDA**

DEPTH (FEET)	Wc (%)	-4 (%)	-10 (%)	-20 (%)	-40 (%)	-60 (%)	-100 (%)	-200 (%)	LL	PI	Org. (%)	N Value	AASHTO	Mat. No.	Description
0.0-0.5	8										5.6	--	A-2-4	7	MEDIUM DENSE DARK GRAY ORGANIC SILTY FINE SAND
1.0-1.5	10	97	96	90	84	71	42	16			2.0	9	A-2-4	2	MEDIUM DENSE GRAY SILTY FINE SAND
2.0-2.5	4										0.5	9	A-2-4	2	MEDIUM DENSE GRAY SILTY FINE SAND
3.0-3.5	8										1.0	8	A-2-4	2	LOOSE GRAY SILTY FINE SAND
4.0-4.5	17	100	100	99	96	85	56	34	33	19		9	A-2-6	4	MEDIUM DENSE GRAY AND ORANGE CLAYEY FINE SAND
5.0-5.5	17											8	A-2-6	4	LOOSE ORANGE CLAYEY FINE SAND
6.0-7.5	14											15	A-2-6	4	MEDIUM DENSE ORANGE CLAYEY FINE SAND
7.5-9.0	16											19	A-2-6	4	MEDIUM DENSE GRAY CLAYEY FINE SAND
9.0-10.5	20											12	A-2-6	4	MEDIUM DENSE GRAY CLAYEY FINE SAND

SOIL CLASSIFICATION DATA

Project: I-75 (SR 93) AT SR 25 (US 41)

Client: OSIRIS 9 CONSULTING, LLC **Project No.: 364-13-24-01**

Boring: ORW-36 **Location: COLUMBIA COUNTY, FLORIDA**

DEPTH (FEET)	Wc (%)	-4 (%)	-10 (%)	-20 (%)	-40 (%)	-60 (%)	-100 (%)	-200 (%)	LL	PI	Org. (%)	N Value	AASHTO	Mat. No.	Description
0.0-0.5	8											--	A-2-4	2	LOOSE GRAY SILTY FINE SAND
1.0-1.5	4	100	100	99	96	79	34	9				9	A-3	1	LOOSE GRAY FINE SAND
2.0-2.5	6											9	A-3	1	LOOSE GRAY FINE SAND
3.0-3.5	6											8	A-3	1	LOOSE GRAY FINE SAND
4.0-4.5	5											8	A-3	1	LOOSE GRAY FINE SAND
5.0-5.5	6											5	A-3	1	LOOSE GRAY FINE SAND

SOIL CLASSIFICATION DATA

Project: I-75 (SR 93) AT SR 25 (US 41)

Client: OSIRIS 9 CONSULTING, LLC **Project No.: 364-13-24-01**

Boring: ORW-37 **Location: COLUMBIA COUNTY, FLORIDA**

DEPTH (FEET)	Wc (%)	-4 (%)	-10 (%)	-20 (%)	-40 (%)	-60 (%)	-100 (%)	-200 (%)	LL	PI	Org. (%)	N Value	AASHTO	Mat. No.	Description
0.0-0.5	32										4.1	--	A-2-4	6	MEDIUM DENSE DARK GRAY SILTY FINE SAND WITH ORGANICS
1.0-1.5	15	100	100	99	96	85	49	27				9	A-2-4	3	MEDIUM DENSE GRAY SILTY FINE SAND
2.0-2.5	18											9	A-7-6	4	MEDIUM DENSE GRAY PLASTIC CLAYEY SAND
3.0-3.5	20											9	A-7-6	4	MEDIUM DENSE GRAY PLASTIC CLAYEY SAND
4.0-4.5	18											8	A-7-6	4	LOOSE GRAY PLASTIC CLAYEY SAND
5.0-5.5	15											8	A-7-6	4	LOOSE GRAY PLASTIC CLAYEY SAND
6.0-7.5	16											14	A-7-6	4	MEDIUM DENSE GRAY PLASTIC CLAYEY SAND
7.5-9.0	23	100	100	100	99	89	55	36	46	25		13	A-7-6	4	MEDIUM DENSE GRAY PLASTIC CLAYEY SAND
9.0-10.5	26											16	A-7-6	4	MEDIUM DENSE GRAY PLASTIC CLAYEY SAND
10.5-12.0	21											18	A-7-6	4	MEDIUM DENSE GRAY PLASTIC CLAYEY SAND
12.5-14.0	28	100	100	100	99	90	50	31				14	A-2-7	4	MEDIUM DENSE GRAY PLASTIC CLAYEY FINE SAND
15.0-16.5	28											16	A-2-7	4	MEDIUM DENSE GRAY PLASTIC CLAYEY FINE SAND
18.0-20.0	24											14	A-2-7	4	MEDIUM DENSE GRAY

SOIL CLASSIFICATION DATA

Project: I-75 (SR 93) AT SR 25 (US 41)

Client: OSIRIS 9 CONSULTING, LLC **Project No.: 364-13-24-01**

Boring: ORW-37 **Location: COLUMBIA COUNTY, FLORIDA**

DEPTH (FEET)	Wc (%)	-4 (%)	-10 (%)	-20 (%)	-40 (%)	-60 (%)	-100 (%)	-200 (%)	LL	PI	Org. (%)	N Value	AASHTO	Mat. No.	Description
															PLASTIC CLAYEY FINE SAND

SOIL CLASSIFICATION DATA

Project: I-75 (SR 93) AT SR 25 (US 41)

Client: OSIRIS 9 CONSULTING, LLC **Project No.: 364-13-24-01**

Boring: ORW-38 **Location: COLUMBIA COUNTY, FLORIDA**

DEPTH (FEET)	Wc (%)	-4 (%)	-10 (%)	-20 (%)	-40 (%)	-60 (%)	-100 (%)	-200 (%)	LL	PI	Org. (%)	N Value	AASHTO	Mat. No.	Description
0.0-0.5	7											--	A-2-4	2	MEDIUM DENSE GRAY SILTY FINE SAND
1.0-1.5	7	100	100	100	96	80	39	13				13	A-2-4	2	MEDIUM DENSE GRAY SILTY FINE SAND
2.0-2.5	6											10	A-2-4	2	MEDIUM DENSE GRAY SILTY FINE SAND
3.0-3.5	6											10	A-2-4	2	MEDIUM DENSE GRAY SILTY FINE SAND
4.0-4.5	15											9	A-2-4	2	MEDIUM DENSE GRAY SILTY FINE SAND
5.0-5.5	19											9	A-2-6	4	MEDIUM DENSE GRAY CLAYEY FINE SAND
6.0-7.5	23	100	100	100	99	92	68	45	53	32		11	A-7-6	5	MEDIUM DENSE GRAY AND ORANGE HIGHLY PLASTIC CLAYEY SAND
7.5-9.0	30											11	A-7-6	5	MEDIUM DENSE GRAY AND ORANGE HIGHLY PLASTIC CLAYEY SAND
9.0-10.5	25											10	A-7-6	5	MEDIUM DENSE GRAY AND ORANGE HIGHLY PLASTIC CLAYEY SAND

SOIL CLASSIFICATION DATA

Project: I-75 (SR 93) AT SR 25 (US 41)

Client: OSIRIS 9 CONSULTING, LLC **Project No.: 364-13-24-01**

Boring: ORW-39 **Location: COLUMBIA COUNTY, FLORIDA**

DEPTH (FEET)	Wc (%)	-4 (%)	-10 (%)	-20 (%)	-40 (%)	-60 (%)	-100 (%)	-200 (%)	LL	PI	Org. (%)	N Value	AASHTO	Mat. No.	Description
0.0-0.5	29										4.4	--	A-2-4	6	LOOSE DARK GRAY SILTY FINE SAND WITH ORGANICS
1.0-1.5	19	100	100	99	89	69	46	32	33	18		10	A-2-6	4	LOOSE GRAY CLAYEY FINE SAND
2.0-2.5	18											10	A-2-6	4	LOOSE GRAY CLAYEY FINE SAND
3.0-3.5	21											9	A-2-6	4	LOOSE GRAY CLAYEY FINE SAND
4.0-4.5	23											8	A-2-6	4	LOOSE GRAY CLAYEY FINE SAND
5.0-5.5	20											8	A-2-6	4	LOOSE GRAY CLAYEY FINE SAND

SOIL CLASSIFICATION DATA

Project: I-75 (SR 93) AT SR 25 (US 41)

Client: OSIRIS 9 CONSULTING, LLC **Project No.: 364-13-24-01**

Boring: ORW-40 **Location: COLUMBIA COUNTY, FLORIDA**

DEPTH (FEET)	Wc (%)	-4 (%)	-10 (%)	-20 (%)	-40 (%)	-60 (%)	-100 (%)	-200 (%)	LL	PI	Org. (%)	N Value	AASHTO	Mat. No.	Description
0.0-0.5	9											--	A-2-4	3	MEDIUM DENSE GRAY SILTY FINE SAND
1.0-1.5	12											10	A-2-4	3	MEDIUM DENSE GRAY SILTY FINE SAND
2.0-2.5	10											9	A-2-4	3	MEDIUM DENSE GRAY SILTY FINE SAND
3.0-3.5	17	100	100	100	98	87	52	24				9	A-2-4	3	MEDIUM DENSE GRAY SILTY FINE SAND
4.0-4.5	14											9	A-2-4	3	MEDIUM DENSE GRAY SILTY FINE SAND
5.0-5.5	17											9	A-2-6	4	MEDIUM DENSE GRAY CLAYEY FINE SAND
6.0-7.5	14											22	A-2-6	4	MEDIUM DENSE GRAY CLAYEY FINE SAND
7.5-9.0	14											26	A-2-6	4	DENSE GRAY CLAYEY FINE SAND
9.0-10.5	11											23	A-2-6	4	MEDIUM DENSE GRAY CLAYEY FINE SAND
10.5-12.0	10											22	A-2-6	4	MEDIUM DENSE GRAY CLAYEY FINE SAND
12.5-14.0	19	100	100	100	98	87	53	27	39	25		14	A-2-6	4	MEDIUM DENSE GRAY CLAYEY FINE SAND
15.0-16.5	21											12	A-7-6	4	MEDIUM DENSE GRAY PLASTIC CLAYEY SAND
18.0-20.0	17											12	A-7-6	4	MEDIUM DENSE GRAY

SOIL CLASSIFICATION DATA

Project: I-75 (SR 93) AT SR 25 (US 41)

Client: OSIRIS 9 CONSULTING, LLC **Project No.: 364-13-24-01**

Boring: ORW-40 **Location: COLUMBIA COUNTY, FLORIDA**

DEPTH (FEET)	Wc (%)	-4 (%)	-10 (%)	-20 (%)	-40 (%)	-60 (%)	-100 (%)	-200 (%)	LL	PI	Org. (%)	N Value	AASHTO	Mat. No.	Description
															PLASTIC CLAYEY SAND

SOIL CLASSIFICATION DATA

Project: I-75 (SR 93) AT SR 25 (US 41)

Client: OSIRIS 9 CONSULTING, LLC **Project No.: 364-13-24-01**

Boring: ORW-41 **Location: COLUMBIA COUNTY, FLORIDA**

DEPTH (FEET)	Wc (%)	-4 (%)	-10 (%)	-20 (%)	-40 (%)	-60 (%)	-100 (%)	-200 (%)	LL	PI	Org. (%)	N Value	AASHTO	Mat. No.	Description
0.0-0.5	8											--	A-3	1	MEDIUM DENSE GRAY FINE SAND
1.0-1.5	6	100	100	100	96	78	36	8				10	A-3	1	MEDIUM DENSE GRAY FINE SAND
2.0-2.5	9											10	A-3	1	MEDIUM DENSE GRAY FINE SAND
3.0-3.5	13											8	A-3	1	LOOSE GRAY FINE SAND
4.0-4.5	23	100	100	100	100	95	73	37	58	35		9	A-7-6	5	MEDIUM DENSE GRAY AND ORANGE HIGHLY PLASTIC CLAYEY SAND
5.0-5.5	26											9	A-7-6	5	MEDIUM DENSE GRAY AND ORANGE HIGHLY PLASTIC CLAYEY SAND
6.0-7.5	27											11	A-7-6	5	MEDIUM DENSE GRAY AND ORANGE HIGHLY PLASTIC CLAYEY SAND
7.5-9.0	26											15	A-7-6	5	MEDIUM DENSE GRAY AND ORANGE HIGHLY PLASTIC CLAYEY SAND
9.0-10.5	18											13	A-7-6	5	MEDIUM DENSE GRAY AND ORANGE HIGHLY PLASTIC CLAYEY SAND

APPENDIX D

NRCS SOIL SURVEY

DRAWN: B. NAUGHTON, E.I.	CHECKED: I. CAPORINI, E.I.	Environmental and Geotechnical Specialists, Inc. 3772 Kori Road Jacksonville, Florida 32257 Office: (904) 329-7180	TITLE: NRCS SOIL SURVEY MAP ROADWAY IMPROVEMENTS I-75 (SR 93) AT SR 25 (US 41) COLUMBIA COUNTY, FLORIDA
ENGINEER: M. LANDSCHOOT, P.E.			
CLIENT: OSIRIS 9 CONSULTING, LLC			
PROJ. NO.: 364-13-24-01	SCALE: AS SHOWN		DATE: MARCH 2025 / FIGURE NO.: D1

Chemical Soil Properties–Columbia County, Florida								
Map symbol and soil name	**Depth**	**Cation-exchange capacity**	**Effective cation-exchange capacity**	**Soil reaction**	**Calcium carbonate**	**Gypsum**	**Salinity**	**Sodium adsorption ratio**
	In	*meq/100g*	*meq/100g*	*pH*	*Pct*	*Pct*	*mmhos/cm*	
8—Blanton fine sand, 0 to 5 percent slopes								
Blanton	0-7	—	0.2-0.9	4.5-5.5	0	0	0.0-2.0	0-4
	7-52	—	0.0-1.6	4.5-5.5	0	0	0.0-2.0	0-4
	52-80	—	2.3-7.2	4.5-5.5	0	0	0.0-2.0	0-4
13—Bonneau fine sand, 2 to 5 percent slopes								
Bonneau	0-7	0.4-1.6	—	4.5-6.0	0	0	0.0-2.0	0-4
	7-27	—	0.0-2.7	4.5-6.0	0	0	0.0-2.0	0-4
	27-80	—	0.5-4.6	4.5-6.0	0	0	0.0-2.0	0-4
43—Orangeburg loamy fine sand, 2 to 5 percent slopes								
Orangeburg	0-8	—	0.1-3.1	4.5-5.5	0	0	0.0-2.0	0-4
	8-13	—	0.1-5.4	4.5-5.5	0	0	0.0-2.0	0-4
	13-51	—	0.2-5.9	4.5-5.5	0	0	0.0-2.0	0-4
	51-80	—	0.2-6.8	4.5-5.5	0	0	0.0-2.0	0-4

Engineering Properties–Columbia County, Florida														
Map unit symbol and soil name	Pct. of map unit	Hydrologic group	Depth	USDA texture	Classification		Pct Fragments		Percentage passing sieve number—				Liquid limit	Plasticity index
					Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
			In				*L-R-H*	*L-R-H*	*L-R-H*	*L-R-H*	*L-R-H*	*L-R-H*	*L-R-H*	*L-R-H*
8—Blanton fine sand, 0 to 5 percent slopes														
Blanton	85	A	0-7	Fine sand	SM, SP-SM	A-2-4, A-3	0- 0- 0	0- 0- 0	100-100-100	89-94-100	79-91-100	10-20-25	0-0 -23	NP-0 -2
			7-52	Fine sand	SM, SP-SM	A-2-4, A-3	0- 0- 0	0- 0- 0	100-100-100	89-95-100	76-91-100	10-21-25	0-0 -17	NP-0 -2
			52-80	Fine sandy loam, sandy clay loam, sandy loam	SC-SM, SC, CL	A-2-4, A-6	0- 0- 0	0- 0- 0	100-100-100	95-96-100	80-94-100	27-37-60	22-29-39	7-12-21
13—Bonneau fine sand, 2 to 5 percent slopes														
Bonneau	88	B	0-7	Fine sand	SC-SM, SM	A-2-4	0- 0- 0	0- 0- 0	100-100-100	100-100-100	91-96-100	15-19-25	0-17 -23	NP-1 -4
			7-27	Fine sand	SC-SM, SP-SM	A-3, A-2-4	0- 0- 0	0- 0- 0	100-100-100	100-100-100	85-92-100	9-11- 23	0-0 -20	NP-0 -4
			27-80	Sandy clay, fine sandy loam, sandy clay loam	CL, SC	A-2-6, A-2-4, A-7-6	0- 0- 0	0- 0- 0	100-100-100	100-100-100	89-96-100	27-33-52	25-34-48	9-17-28

Engineering Properties–Columbia County, Florida														
Map unit symbol and soil name	Pct. of map unit	Hydrologic group	Depth	USDA texture	Classification		Pct Fragments		Percentage passing sieve number—				Liquid limit	Plasticity index
					Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
			In				*L-R-H*	*L-R-H*	*L-R-H*	*L-R-H*	*L-R-H*	*L-R-H*	*L-R-H*	*L-R-H*
43—Orangeburg loamy fine sand, 2 to 5 percent slopes														
Orangeburg	75	B	0-8	Loamy fine sand	SM	A-2	0- 0- 0	0- 0- 0	98-99-100	95-98-100	60-74-87	14-21-28	0-7 -14	NP
			8-13	Sandy loam, loamy fine sand	SM	A-2	0- 0- 0	0- 0- 0	98-99-100	95-98-100	70-83-96	25-30-35	0-15 -30	NP-2 -4
			13-51	Sandy clay loam, sandy loam	CL, SC, SC-SM, SM	A-4, A-6	0- 0- 0	0- 0- 0	98-99-100	95-98-100	71-84-96	38-48-58	22-31 -40	3-11-19
			51-80	Sandy clay loam, sandy clay	CL, SC	A-4, A-6, A-7	0- 0- 0	0- 0- 0	98-99-100	95-98-100	70-84-97	40-53-65	24-35 -46	8-15-21

Physical Soil Properties–Columbia County, Florida														
Map symbol and soil name	**Depth**	**Sand**	**Silt**	**Clay**	**Moist bulk density**	**Saturated hydraulic conductivity**	**Available water capacity**	**Linear extensibility**	**Organic matter**	**Erosion factors**			**Wind erodibility group**	**Wind erodibility index**
										Kw	**Kf**	**T**		
	In	*Pct*	*Pct*	*Pct*	*g/cc*	*micro m/sec*	*In/In*	*Pct*	*Pct*					
8—Blanton fine sand, 0 to 5 percent slopes														
Blanton	0-7	90-96- 99	0- 3- 5	1- 2- 5	1.48-1.52	42.34-141.14	0.03-0.07	0.1-0.3	0.5-3.0	.15	.15	5	1	250
	7-52	90-95- 99	0- 4- 5	1- 1- 5	1.56-1.59	42.34-141.14	0.03-0.07	0.0-0.4	0.0-0.5	.17	.17			
	52-80	50-76- 85	0- 6- 35	12-19- 34	1.60-1.64	1.41-42.34	0.10-0.15	0.6-1.6	0.0-0.5	.24	.24			
13—Bonneau fine sand, 2 to 5 percent slopes														
Bonneau	0-7	90-95- 98	0- 2- 5	2- 3- 8	1.53-1.59	42.34-141.14	0.04-0.08	0.0-0.3	0.5-2.0	.10	.10	5	1	250
	7-27	90-93- 98	0- 4- 7	2- 3- 8	1.58-1.60	42.34-141.14	0.04-0.08	0.1-0.6	0.0-0.5	.02	.02			
	27-80	55-70- 80	0- 5- 28	15-25- 40	1.52-1.70	4.23-14.11	0.10-0.16	0.3-1.4	0.0-0.5	.10	.10			
43—Orangeburg loamy fine sand, 2 to 5 percent slopes														
Orangeburg	0-8	-86-	0- 7- 30	4- 7- 10	1.35-1.55	14.11-42.34	0.06-0.09	0.0-2.9	0.5-2.0	.15	.15	5	2	134
	8-13	-75-	0-10- 50	7-15- 18	1.50-1.65	14.11-42.34	0.09-0.12	0.0-2.9	0.0-1.0	.20	.20			
	13-51	-65-	0- 9- 28	18-27- 35	1.60-1.75	4.23-14.11	0.11-0.14	0.0-2.9	0.0-0.5	.17	.17			
	51-80	-59-	0- 8- 28	20-33- 45	1.60-1.75	4.23-14.11	0.11-0.14	0.0-2.9	0.0-0.5	.15	.15			

Soil Features–Columbia County, Florida									
Map symbol and soil name	**Restrictive Layer**				**Subsidence**		**Potential for frost action**	**Risk of corrosion**	
	Kind	**Depth to top**	**Thickness**	**Hardness**	**Initial**	**Total**		**Uncoated steel**	**Concrete**
		Low-RV-High	*Range*		*Low-High*	*Low-High*			
		In	*In*		*In*	*In*			
8—Blanton fine sand, 0 to 5 percent slopes									
Blanton		—	—		0	0	None	Low	High
13—Bonneau fine sand, 2 to 5 percent slopes									
Bonneau		—	—		0	0	None	Moderate	Moderate
43—Orangeburg loamy fine sand, 2 to 5 percent slopes									
Orangeburg		—	—		—	—	None	Moderate	High

Map unit symbol and soil name	Hydrologic group	Surface runoff	Most likely months	Water table			Ponding			Flooding	
				Upper limit	Lower limit	Kind	Surface depth	Duration	Frequency	Duration	Frequency
				Ft	*Ft*		*Ft*				
8—Blanton fine sand, 0 to 5 percent slopes											
Blanton	A	Negligible	Jan-Feb	—	—	—	—	—	None	—	None
			Mar-Nov	3.5-6.0	6.0	Apparent	—	—	None	—	None
			Dec	—	—	—	—	—	None	—	None
13—Bonneau fine sand, 2 to 5 percent slopes											
Bonneau	B	Very low	Jan-Mar	3.5-5.0	6.0	Apparent	—	—	None	—	None
			Apr-Nov	—	—	—	—	—	None	—	None
			Dec	3.5-5.0	6.0	Apparent	—	—	None	—	None
43—Orangeburg loamy fine sand, 2 to 5 percent slopes											
Orangeburg	B	Negligible	Jan-Dec	—	—	—	—	—	None	—	None

APPENDIX E

PAVEMENT CORE PHOTOS

FIGURE E1: PHOTOGRAPH OF PAVEMENT CORE **OPC-1**

FIGURE E2: PHOTOGRAPH OF PAVEMENT CORE **OPC-2**

REPORT OF
GEOTECHNICAL INVESTIGATION

SIGNAL POLES
I-75 (SR 93) AT SR 25 (US 41)
COLUMBIA COUNTY, FLORIDA
FPID: 445725-5-54-02

Prepared For:

OSIRIS 9 CONSULTING, LLC
13241 BARTRAM PARK BOULEVARD
SUITE 1109
JACKSONVILLE, FLORIDA 32258

Prepared By:

ENVIRONMENTAL AND GEOTECHNICAL SPECIALISTS, INC.
3772 KORI ROAD
JACKSONVILLE, FLORIDA 32257
(904) 329-7180

March 2025
364-13-24-03

March 25, 2025

EGS File: 364-13-24-03

Osiris 9 Consulting, LLC
13241 Bartram Park Boulevard
Suite 1109
Jacksonville, Florida 32258

ATTN: Bryon Wuczynski, P.E.
Senior Engineer

SUBJECT: **Report of Geotechnical Investigation**
Signal Poles
I-75 (SR 93) at SR 25 (US 41)
Columbia County, Florida
FPID: 445725-5-54-02

Dear Bryon,

Environmental and Geotechnical Specialists, Inc. (**EGS**) has completed the geotechnical investigation, as authorized by Osiris 9 Consulting, LLC (**OSIRIS**) and the Florida Department of Transportation (**FDOT**) for the proposed signal poles located at the I-75 (SR 93) and SR 25 (US 41) interchange in Columbia County, Florida. This Report includes a summary of the subsurface investigation conducted for this project, evaluation of field and laboratory test data, material classifications, geotechnical design recommendations, and construction considerations.

PROJECT AREA AND CONDITIONS

The project site is located at the I-75 interchange at SR 25 (US 41) in Columbia County, Florida. A Project Location Map has been included as **Figure 1**. Based on preliminary design files provided by **OSIRIS**, **EGS** understands that a total of eight signal poles are proposed at the interchange, with four at the northbound ramps, and four at the southbound ramps.

To facilitate review of the existing site conditions, a copy of the United States Geological Survey (**USGS**) Topographic Map contours and the Florida Geological Survey (**FGS**) mapped “Potential Karst Features” have been superimposed on a recent aerial image of the project site, provided as **Figure 2**. As depicted in the **Figure**, the general topography varies throughout the project limits with the ground surface elevation ranging from approximately EL 55 feet to EL 115 feet. Based on a review of nearby water bodies, groundwater was not anticipated to exist within 10 feet of the existing ground surface; however, based on the likelihood of “plastic” soils in the area, temporary “perched” groundwater was anticipated.

*Additionally, it should be noted that mapped **FGS** "Potential Karst Features" exist between Baseline Survey Station 531+00 to 535+50, as well as within the general project vicinity. Therefore, variable subsoil and limestone conditions were expected within the study area. It should be noted that the **FGS** "Potential Karst Features" are based on aerial topographic imagery, and only provide information as to the possibility of karst conditions in a general area.*

Prior to installation of soil borings, **EGS** personnel performed a field review to observe the existing site conditions. Photographs collected by **EGS** which depict the existing site conditions are included as **Figures 3A** through **3D**. As shown in the photographs, the site conditions within the study area are generally comprised of cleared and maintained grass shoulders within the existing right of way, and intermittent commercial developments and sparse woodlands beyond the existing right of way.

SUBSURFACE INVESTIGATION

The subsurface investigation associated with this study was conducted by **EGS** in February 2025. Isabella Caporini, E.I. of **EGS** served as the Field and Staff Engineer and Matthew Landschoot, P.E., was the Senior Geotechnical Engineer of Record. Additional project oversight and quality assurance / quality control (**QA/QC**) were provided by Craig Dunkelberger, P.E., Senior Geotechnical Engineer and Chandra Samakur, P.E., Senior Geotechnical Engineer.

EGS installed 8 Standard Penetration Test (**SPT**) soil borings using a combination of hand-auger and rotary drilling methods, each to a depth of 30 feet below existing grade, near the proposed signal pole foundation locations. To evaluate the relative strength and uniformity of the subsurface materials, soil samples were collected continuously to a depth of 12 feet and then continued on 2.5-foot intervals to the boring termination depth. In order to avoid impacting potential unmarked or mismarked buried utilities, the soil borings were installed using hand auger sampling techniques from the ground surface to a depth of 5.5 feet below grade, coupled with Static Cone Penetration Index (**CPI**) tests performed at 1-foot intervals. **SPT** samples were then collected below the deepest hand auger sample. To facilitate uniformity of the subsurface data, the **CPI** "**C**" values were converted to equivalent **SPT** "**N**" values using the correlation "**N**" = "**C**"/4. All **SPT** samples were collected in accordance with ASTM D1586.

Soil samples were collected, classified in the field by **EGS** personnel, sealed, and transported to **EGS'** laboratory for testing. The laboratory tests included water contents, grain-size distributions, Atterberg limits, and organic contents. The soil samples were classified with respect to the Unified Soil Classification System (**USCS**).

Detailed soil boring location data has been provided in **TABLE 1**. Additionally, the boring locations are depicted on the Soil Boring Location Map provided as **Figure 4**, and on the *Report of Signalization Borings* sheet provided in **APPENDIX A**.

GENERAL SUBSURFACE CONDITIONS

Soils – A summary of the field and laboratory testing has been provided in the *Report of Signalization Borings* plan sheets provided in **APPENDIX A**. Additionally, detailed *Soil Boring Logs* and *Soil Classification Data* sheets have been provided in **APPENDICES B** and **C**, respectively. As depicted on the plan sheets in **APPENDIX A**, the subsurface conditions consist of the following:

Soil Boring OSP-1 (US 41 at I-75 Southbound Southeast Corner)

- EL 67.4 to 59.9 feet – Loose Fine Sand (**SP-SM**) (**N**=5)
- EL 59.9 to 37.4 feet – Loose to Medium Dense Clayey Fine Sand (**SC**) (**N**=16)

Soil Boring OSP-2 (US 41 at I-75 Southbound Southwest Corner)

- EL 69.7 to 66.7 feet – Medium Dense Silty Fine Sand (**SM**) (**N**=9)
- EL 66.7 to 39.7 feet – Loose to Medium Dense Clayey Fine Sand to Plastic Clayey Sand (**SC**) (**N**=13)

Soil Boring OSP-3 (US 41 at I-75 Southbound Northwest Corner)

- EL 69.1 to 44.1 feet – Loose to Medium Dense Silty Fine Sand to Highly Plastic Clayey Sand (**SM** to **SC**) (**N**=8)
- EL 44.1 to 39.1 feet – Firm Highly Plastic Clay (**CH**) (**N**=6)

Soil Boring OSP-4 (US 41 at I-75 Southbound Northeast Corner)

- EL 66.3 to 60.3 feet – Loose Fine Sand to Silty Fine Sand (**SP-SM** to **SM**) (**N**=8)
- EL 60.3 to 51.3 feet – Medium Dense Clayey Fine Sand (**SC**) (**N**=17)
- EL 51.3 to 36.3 feet – Stiff Highly Plastic Silt with Sand (**MH**) (**N**=11)

Soil Boring OSP-5 (US 41 at I-75 Northbound Southwest Corner)

- EL 70.1 to 57.6 feet – Loose to Medium Dense Clayey Fine Sand (**SC**) (**N**=9)
- EL 57.6 to 55.1 feet – Firm Highly Plastic Sandy Silt (**MH**) (**N**=7)
- EL 55.1 to 42.1 feet – Loose to Medium Dense Silty Fine Sand (**SM**) (**N**=7)
- EL 42.1 to 40.1 feet – Highly Weathered Limestone (**N**=5)

Soil Boring OSP-6 (US 41 at I-75 Northbound Southeast Corner)

- EL 70.7 to 66.7 feet – Stiff Highly Plastic Clay with Sand (**CH**) (**N**=8)
- EL 66.7 to 61.7 feet – Medium Dense Plastic Clayey Sand (**SC**) (**N**=17)
- EL 61.7 to 55.7 feet – Loose Plastic Clayey Sand (**SC**) (**N**=7)

- EL 55.7 to 42.7 feet – Medium Dense Silty Fine Sand to Plastic Clayey Sand (**SM** to **SC**) (**N**=14)
- EL 42.7 to 40.7 feet – Firm Highly Plastic Clay with Sand (**CH**) (**N**=7)

Soil Boring OSP-7 (US 41 at I-75 Northbound Northeast Corner)

- EL 72.0 to 66.0 feet – Medium Dense Silty Fine Sand (**SM**) (**N**=9)
- EL 66.0 to 42.0 feet – Loose to Medium Dense Clayey Fine Sand to Highly Plastic Clayey Sand (**SC**) (**N**=14)

Soil Boring OSP-8 (US 41 at I-75 Northbound Northwest Corner)

- EL 70.6 to 53.1 feet – Loose to Medium Dense Silty Fine Sand to Plastic Clayey Sand (**SM** to **SC**) (**N**=9)
- EL 53.1 to 48.1 feet – Firm to Stiff Highly Plastic Clay (**CH**) (**N**=8)
- EL 48.1 to 40.6 feet – Loose Silty Fine Sand to Clayey Fine Sand (**SM** to **SC**) (**N**=9)

Groundwater – To facilitate the use of groundwater data, the measured groundwater depths encountered at each soil boring have been included in **TABLE 1**. Groundwater was encountered at depths ranging from 13.0 to 19.5 feet below the ground surface (EL 52.5 to 56.7 feet). For the purposes of this Report, **EGS** assumed the groundwater to be at the ground surface for applicable design calculations.

Environmental Classification – As part of this study, **EGS** performed corrosion series testing on representative soil samples collected to determine the corrosion classification to be considered during design. These tests included soil resistivity, pH, sulfate content, and chloride content and were conducted in accordance with the appropriate *Florida Method* (**FM**) specification. Test results and environmental classifications for each sample have been summarized in **TABLE 2** and the *Report of Signalization Borings* plan sheet provided in **APPENDIX A**.

FOUNDATION RECOMMENDATIONS

Based on preliminary discussions with **OSIRIS**, **EGS** understands that the proposed signalization improvements are to be supported by strain poles. Strain poles typically consist of either embedded “Concrete Poles” (***FDOT** Standard Plans Index 641-010*), “Steel Strain Poles” (***FDOT** Standard Plans Index 649-010*), or are founded on drilled shafts (***FDOT** Standard Plans Index 649-030*). Based on the subsurface investigation conducted for the proposed signal poles identified herein, **EGS believes** that these are all viable foundation options. Use of spread footings to support the proposed signal pole foundations may be possible; however, due to potential impacts to existing utilities and the limited right-of-way available, an embedded pole or drilled shaft foundation was believed to be the more feasible option.

EGS reviewed the subsurface conditions and believes that the subsoils encountered during this study do not meet the minimum soil requirements as outlined in ***FDOT*** *Standard Plans Indices 641-010* and *649-010* due to the presence of "Loose" conditions resulting in a friction angle less than 30 degrees and cohesive soils. **EGS** has provided Geotechnical Design Parameters in **TABLE 3** to assist with the analysis and design of the proposed foundations**.** The design soil layers used to develop the **TABLE** have been depicted in **Figures 5A** through **5H**. **EGS understands** that the foundation design and analysis will be performed by others using the soil parameters provided, herein.

CONSTRUCTION CONSIDERATIONS

Temporary Excavations – Based on the sandy subsoils encountered for this study, **EGS** believes the foundation excavations will likely "cave-off" during construction without the use of drilling slurry and temporary casing. Therefore, **EGS recommends** the following note be added to the plans to caution the Contractor:

- *Foundation excavations may require use of temporary casing and drilling slurry to prevent cave-off, in accordance with* ***FDOT*** *Standard Specification 455.*

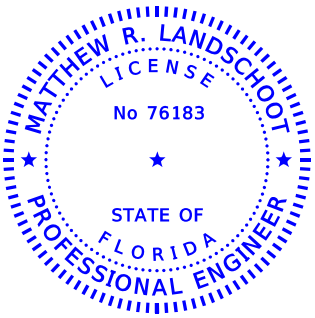
CLOSURE

The data and results presented in this Report of Geotechnical Investigation are intended for use by Osiris 9 Consulting, LLC and the Florida Department of Transportation for the proposed signal poles located at the I-75 (SR 93) and SR 25 (US 41) interchange in Columbia County, Florida, as identified herein. This data may not be used without the expressed written consent of Osiris 9 Consulting, LLC and the Florida Department of Transportation. This report is not intended for any other use and will likely not be applicable. This Report shall not be reproduced, except in full, without the written approval of Environmental and Geotechnical Specialists, Inc. The data and recommendations presented in this Report are based on the soil borings made at the specific locations and depths noted. Subsurface conditions at other locations may vary significantly from those presented herein. Should data become available which is different from the data presented herein, Environmental and Geotechnical Specialists, Inc. requests the opportunity to review the data and make any modifications to the design recommendations that may be appropriate.

If you have any questions concerning the information contained in this Report, please do not hesitate to call at (904) 329-7180.

Sincerely,

Environmental and Geotechnical Specialists, Inc.
Florida Certificate of Engineering Authorization 6222



Matthew R. Landschoot, PE
Senior Geotechnical Engineer
Florida PE No. 76183

Environmental and Geotechnical Specialists, Inc.
3772 Kori Drive
Jacksonville, FL 32257

This Report has been digitally signed and sealed by Matthew Landschoot 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.

TABLES

TABLE 1
SOIL BORING LOCATION AND GROUNDWATER DATA
SIGNAL POLES
I-75 (SR 93) AT SR 25 (US 41)
COLUMBIA COUNTY, FLORIDA

BORING NUMBER	BORING DEPTH [1]	ELEVATION [2]	STATION [2]	OFFSET [2]	MEASURED GROUNDWATER		GLOBAL POSITIONING SYSTEM (GPS) COORDINATES [3]			
					DEPTH [1]	ELEVATION [2]	LATITUDE		LONGITUDE	
	(FEET)	(FEET)	(FEET)	(FEET)	(FEET)	(FEET)	DEG	MIN	DEG	MIN
OSP-1	30.0	67.4	531+08	69 RIGHT	14.0	53.4	29	59.904	82	35.826
OSP-2	30.0	69.7	531+16	98 LEFT	13.0	56.7	29	59.905	82	35.858
OSP-3	30.0	69.1	532+71	105 LEFT	13.0	56.1	29	59.930	82	35.859
OSP-4	30.0	66.3	532+72	64 RIGHT	13.5	52.8	29	59.930	82	35.827
OSP-5	30.0	70.1	539+63	123 LEFT	17.5	52.6	30	0.045	82	35.863
OSP-6	30.0	70.7	539+83	36 RIGHT	15.5	55.2	30	0.048	82	35.832
OSP-7	30.0	72.0	541+30	43 RIGHT	19.5	52.5	30	0.072	82	35.831
OSP-8	30.0	70.6	541+36	106 LEFT	15.0	55.6	30	0.073	82	35.859

NOTES: 1. DEPTH IS MEASURED BELOW EXISTING GROUND SURFACE.

2. ELEVATION, STATION, AND OFFSETS ARE APPROXIMATE AND DETERMINED FROM ELECTRONIC FILES PROVIDED BY **OSIRIS**.

3. COORDINATES ARE APPROXIMATE AND BASED ON ELECTRONIC FILES AND MAPPING SOFTWARE.

TABLE 2
ENVIRONMENTAL CLASSIFICATION DATA
SIGNAL POLES
I-75 (SR 93) AT SR 25 (US 41)
COLUMBIA COUNTY, FLORIDA

BORING NUMBER	DEPTH [1]	RESISTIVITY (OHM-CM)	pH	SULFATES (PPM)	CHLORIDES (PPM)	CLASSIFICATION [2]	
						STEEL	CONCRETE
OSP-1	2.0 - 4.5	11,000	7.9	18	105	**SLIGHTLY AGGRESSIVE**	**SLIGHTLY AGGRESSIVE**
OSP-8	4.0 - 7.5	8,200	4.5	24	90	**EXTREMELY AGGRESSIVE**	**EXTREMELY AGGRESSIVE**

NOTES: 1. DEPTH IS MEASURED BELOW EXISTING GROUND SURFACE.

2. ENVIRONMENTAL CLASSIFICATION AS IDENTIFIED IN THE **FDOT** *STRUCTURES DESIGN GUIDELINES TABLE 1.3.2-1.*

TABLE 3
GEOTECHNICAL DESIGN PARAMETERS
SIGNAL POLES
I-75 (SR 93) AT SR 25 (US 41)
COLUMBIA COUNTY, FLORIDA

AVERAGE LAYER ELEVATION [1] (FEET)	AVERAGE LAYER DEPTH [2] (FEET)	CORRECTED SPT 'N_{60}' VALUE [3]	ANGLE OF INTERNAL FRICTION (DEGREES) (ϕ)	SOIL UNIT WEIGHT [4] TOTAL (LB/FT^3) (γ)	SOIL UNIT WEIGHT [4] EFFECTIVE (LB/FT^3) (γ')	UNDRAINED SHEAR STRENGTH (LB/FT^2) (c)	POISSON'S RATIO (μ)	SOIL DESCRIPTION
SOIL BORING OSP-1								
67.4 to 59.9	0.0 to 7.5	5	29	110	48	- -	0.20	LOOSE FINE SAND (**SP-SM**)
59.9 to 37.4	7.5 to 30.0	16	30	115	53	- -	0.25	LOOSE to MEDIUM DENSE CLAYEY FINE SAND (**SC**)
SOIL BORING OSP-2								
69.7 to 66.7	0.0 to 3.0	9	30	115	53	- -	0.25	MEDIUM DENSE SILTY FINE SAND (**SM**)
66.7 to 39.7	3.0 to 30.0	13	28	115	53	- -	0.25	LOOSE to MEDIUM DENSE CLAYEY FINE SAND to PLASTIC CLAYEY SAND (**SC**)
SOIL BORING OSP-3								
69.1 to 44.1	0.0 to 25.0	8	28	115	53	- -	0.25	LOOSE to MEDIUM DENSE SILTY FINE SAND to HIGHLY PLASTIC CLAYEY SAND (**SM** to **SC**)
44.1 to 39.1	25.0 to 30.0	6	- -	120	58	1,100	0.35	FIRM HIGHLY PLASTIC CLAY (**CH**)

NOTES: 1. ELEVATIONS ARE APPROXIMATE AND BASED ON ELECTRONIC FILES PROVIDED BY **OSIRIS**.

2. DEPTH IS MEASURED BELOW GROUND SURFACE.

3. N-VALUES ARE AUTOMATIC HAMMER "N" VALUES CORRECTED FOR HAMMER EFFICIENCY ONLY.

4. DESIGN GROUNDWATER LEVEL ASSUMED TO BE AT GROUND SURFACE.

TABLE 3
GEOTECHNICAL DESIGN PARAMETERS
SIGNAL POLES
I-75 (SR 93) AT SR 25 (US 41)
COLUMBIA COUNTY, FLORIDA

AVERAGE LAYER ELEVATION [1] (FEET)	AVERAGE LAYER DEPTH [2] (FEET)	CORRECTED SPT 'N_{60}' VALUE [3]	ANGLE OF INTERNAL FRICTION (DEGREES) (ϕ)	SOIL UNIT WEIGHT [4] TOTAL (LB/FT^3) (γ)	SOIL UNIT WEIGHT [4] EFFECTIVE (LB/FT^3) (γ')	UNDRAINED SHEAR STRENGTH (LB/FT^2) (c)	POISSON'S RATIO (μ)	SOIL DESCRIPTION
SOIL BORING OSP-4								
66.3 to 60.3	0.0 to 6.0	8	30	115	53	- -	0.25	LOOSE FINE SAND to SILTY FINE SAND (**SP-SM** to **SM**)
60.3 to 51.3	6.0 to 15.0	17	31	115	53	- -	0.30	MEDIUM DENSE CLAYEY FINE SAND (**SC**)
51.3 to 36.3	15.0 to 30.0	11	- -	120	58	1,700	0.40	STIFF HIGHLY PLASTIC SILT WITH SAND (**MH**)
SOIL BORING OSP-5								
70.1 to 57.6	0.0 to 12.5	9	29	115	53	- -	0.25	LOOSE to MEDIUM DENSE CLAYEY FINE SAND (**SC**)
57.6 to 55.1	12.5 to 15.0	7	- -	120	58	1,200	0.35	FIRM HIGHLY PLASTIC SANDY SILT (**MH**)
55.1 to 42.1	15.0 to 28.0	7	29	110	48	- -	0.20	LOOSE to MEDIUM DENSE SILTY FINE SAND (**SM**)
42.1 to 40.1	28.0 to 30.0	5	- -	120	58	950	0.35	HIGHLY WEATHERED LIMESTONE

NOTES: 1. ELEVATIONS ARE APPROXIMATE AND BASED ON ELECTRONIC FILES PROVIDED BY **OSIRIS**.
2. DEPTH IS MEASURED BELOW GROUND SURFACE.
3. N-VALUES ARE AUTOMATIC HAMMER "N" VALUES CORRECTED FOR HAMMER EFFICIENCY ONLY.
4. DESIGN GROUNDWATER LEVEL ASSUMED TO BE AT GROUND SURFACE.

TABLE 3
GEOTECHNICAL DESIGN PARAMETERS
SIGNAL POLES
I-75 (SR 93) AT SR 25 (US 41)
COLUMBIA COUNTY, FLORIDA

AVERAGE LAYER ELEVATION [1] (FEET)	AVERAGE LAYER DEPTH [2] (FEET)	CORRECTED SPT 'N_{60}' VALUE [3]	ANGLE OF INTERNAL FRICTION (DEGREES) (ϕ)	SOIL UNIT WEIGHT [4] TOTAL (LB/FT^3) (γ)	SOIL UNIT WEIGHT [4] EFFECTIVE (LB/FT^3) (γ')	UNDRAINED SHEAR STRENGTH (LB/FT^2) (c)	POISSON'S RATIO (μ)	SOIL DESCRIPTION
SOIL BORING OSP-6								
70.7 to 66.7	0.0 to 4.0	8	- -	120	58	1,350	0.35	STIFF HIGHLY PLASTIC CLAY WITH SAND (**CH**)
66.7 to 61.7	4.0 to 9.0	17	30	115	53	- -	0.30	MEDIUM DENSE PLASTIC CLAYEY SAND (**SC**)
61.7 to 55.7	9.0 to 15.0	7	28	110	48	- -	0.20	LOOSE PLASTIC CLAYEY SAND (**SC**)
55.7 to 42.7	15.0 to 28.0	14	30	115	53	- -	0.25	MEDIUM DENSE SILTY FINE SAND to PLASTIC CLAYEY SAND (**SM** to **SC**)
42.7 to 40.7	28.0 to 30.0	7	- -	120	58	1,200	0.35	FIRM HIGHLY PLASTIC CLAY WITH SAND (**CH**)
SOIL BORING OSP-7								
72.0 to 66.0	0.0 to 6.0	9	30	115	53	- -	0.25	MEDIUM DENSE SILTY FINE SAND (**SM**)
66.0 to 42.0	6.0 to 30.0	14	28	115	53	- -	0.25	LOOSE to MEDIUM DENSE CLAYEY FINE SAND to HIGHLY PLASTIC CLAYEY SAND (**SC**)

NOTES: 1. ELEVATIONS ARE APPROXIMATE AND BASED ON ELECTRONIC FILES PROVIDED BY **OSIRIS**.

2. DEPTH IS MEASURED BELOW GROUND SURFACE.

3. N-VALUES ARE AUTOMATIC HAMMER "N" VALUES CORRECTED FOR HAMMER EFFICIENCY ONLY.

4. DESIGN GROUNDWATER LEVEL ASSUMED TO BE AT GROUND SURFACE.

TABLE 3
GEOTECHNICAL DESIGN PARAMETERS
SIGNAL POLES
I-75 (SR 93) AT SR 25 (US 41)
COLUMBIA COUNTY, FLORIDA

AVERAGE LAYER ELEVATION [1] (FEET)	AVERAGE LAYER DEPTH [2] (FEET)	CORRECTED SPT 'N_{60}' VALUE [3]	ANGLE OF INTERNAL FRICTION (DEGREES) (ϕ)	SOIL UNIT WEIGHT [4] TOTAL (LB/FT^3) (γ)	SOIL UNIT WEIGHT [4] EFFECTIVE (LB/FT^3) (γ')	UNDRAINED SHEAR STRENGTH (LB/FT^2) (c)	POISSON'S RATIO (μ)	SOIL DESCRIPTION
SOIL BORING OSP-8								
70.6 to 53.1	0.0 to 17.5	9	28	115	53	- -	0.25	LOOSE to MEDIUM DENSE SILTY FINE SAND to PLASTIC CLAYEY SAND (**SM** to **SC**)
53.1 to 48.1	17.5 to 22.5	8	- -	120	58	1,350	0.35	FIRM to STIFF HIGHLY PLASTIC CLAY (**CH**)
48.1 to 40.6	22.5 to 30.0	9	29	115	53	- -	0.25	LOOSE SILTY FINE SAND to CLAYEY FINE SAND (**SM** to **SC**)

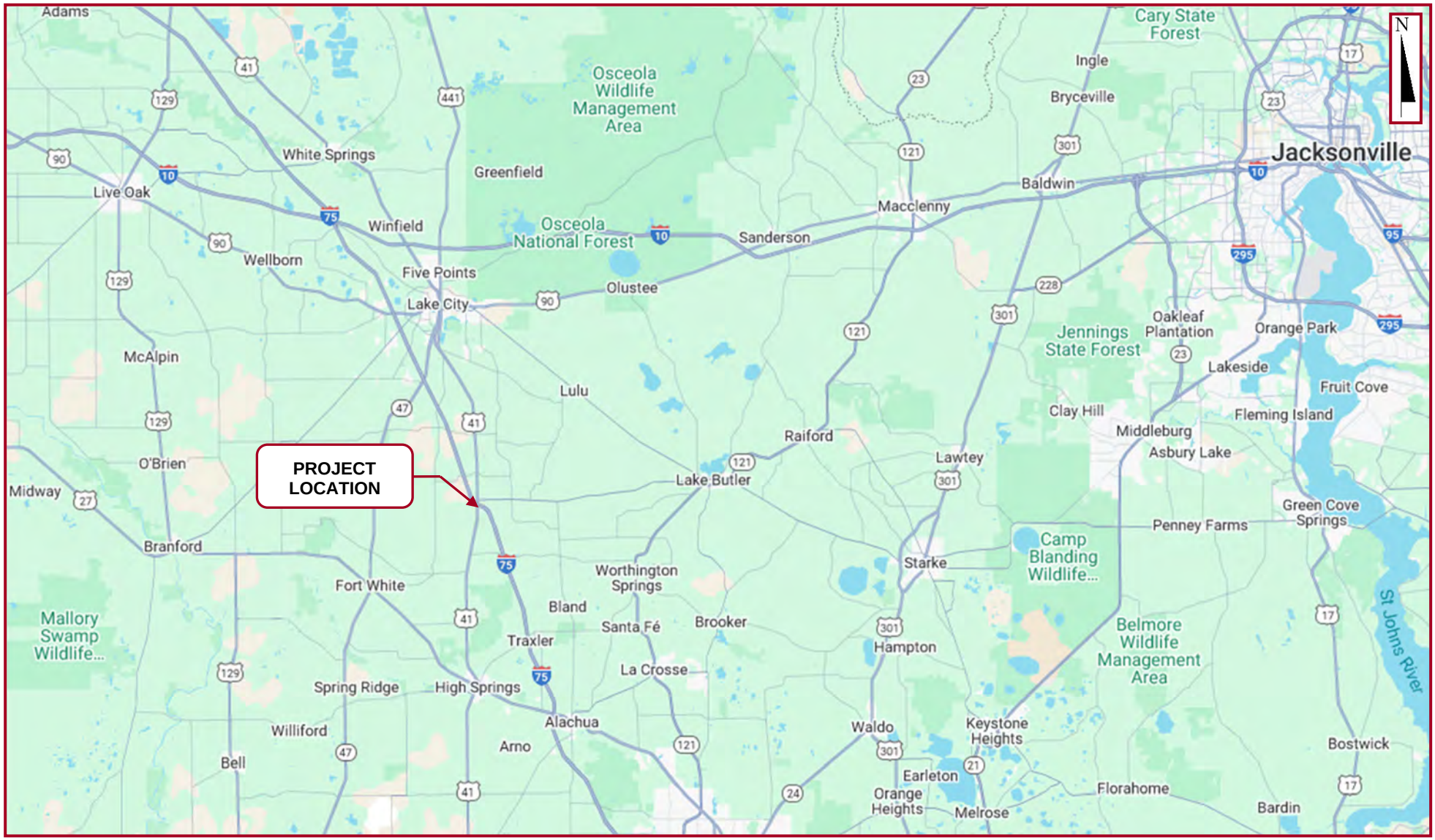
NOTES: 1. ELEVATIONS ARE APPROXIMATE AND BASED ON ELECTRONIC FILES PROVIDED BY **OSIRIS**.

2. DEPTH IS MEASURED BELOW GROUND SURFACE.

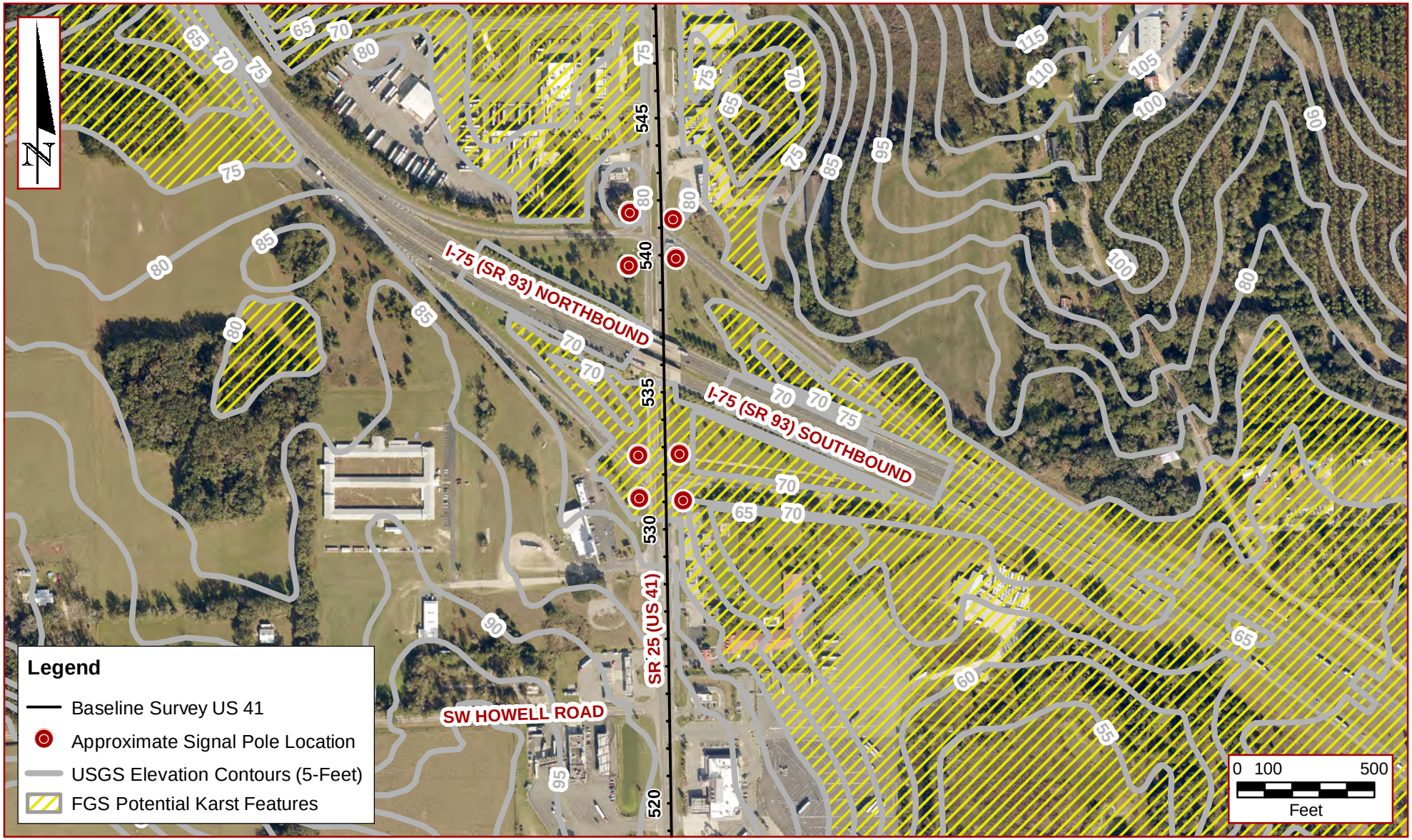
3. N-VALUES ARE AUTOMATIC HAMMER "N" VALUES CORRECTED FOR HAMMER EFFICIENCY ONLY.

4. DESIGN GROUNDWATER LEVEL ASSUMED TO BE AT GROUND SURFACE.

FIGURES



DRAWN: A. CRAIG, E.I.	CHECKED: I. CAPORINI, E.I.	Environmental & Geotechnical Specialists, Inc. 3227 Kori Road Jacksonville, Florida 32257 Office: (904) 329-7180	TITLE: PROJECT LOCATION MAP SIGNAL POLES I-75 (SR 93) AT SR 25 (US 41) COLUMBIA COUNTY, FLORIDA	
ENGINEER: M. LANDSCHOOT, P.E.				
CLIENT: OSIRIS 9 CONSULTING, LLC				
PROJ. NO.: 364-13-24-03	SCALE: NOT TO SCALE		DATE: FEBRUARY 2025	FIGURE NO.: 1



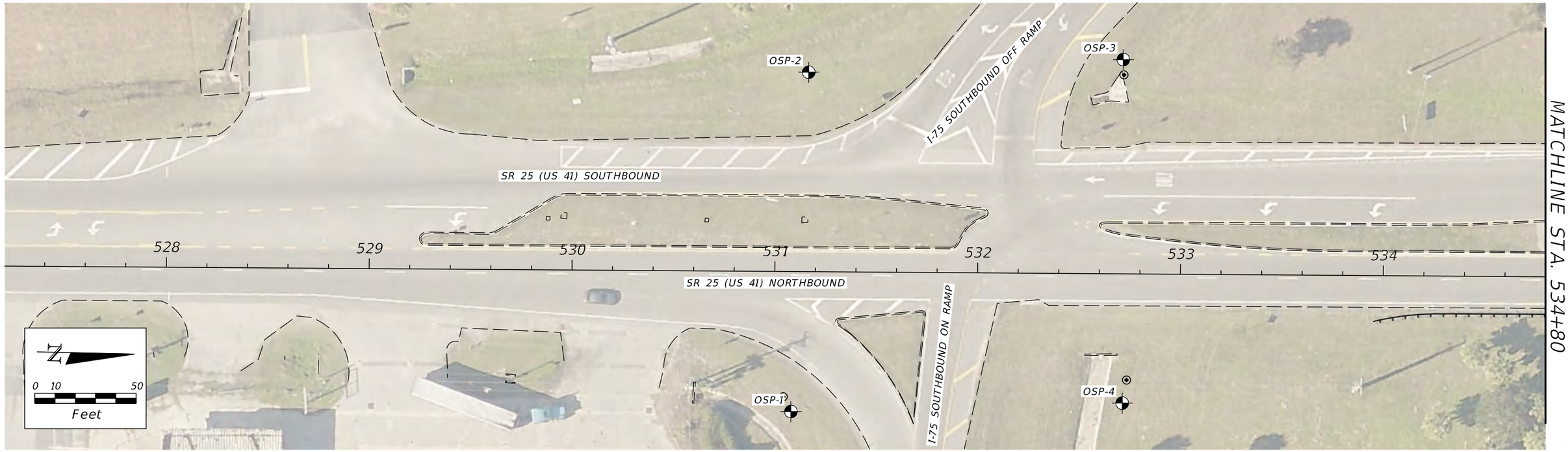
DRAWN: I. CAPORINI, E.I.	CHECKED: K. MORALES, P.E.	Environmental and Geotechnical Specialists, Inc. 3772 Kori Road Jacksonville, Florida 32257 Office: (904) 329-7180	TITLE: USGS TOPOGRAPHIC MAP SIGNAL POLES I-75 (SR 93) AT SR 25 (US 41) COLUMBIA COUNTY, FLORIDA
ENGINEER: M. LANDSCHOOT, P.E.			
CLIENT: OSIRIS 9 CONSULTING, LLC			
PROJ. NO.: 364-13-24-03	SCALE: AS SHOWN		DATE: MARCH 2025 / FIGURE NO.: 2

FIGURE 3A: PHOTOGRAPH OF EXISTING SITE CONDITIONS NEAR SOIL BORING **OSP-1** (FACING EAST)

FIGURE 3B: PHOTOGRAPH OF EXISTING SITE CONDITIONS NEAR SOIL BORINGS **OSP-2** AND **OSP-3** (FACING NORTH)

FIGURE 3C: PHOTOGRAPH OF EXISTING SITE CONDITIONS NEAR SOIL BORING **OSP-7** (FACING SOUTH)

FIGURE 3D: PHOTOGRAPH OF EXISTING SITE CONDITIONS NEAR SOIL BORINGS **OSP-5** AND **OSP-8** (FACING SOUTHWEST)



LEGEND

SPT SOIL BORING LOCATION

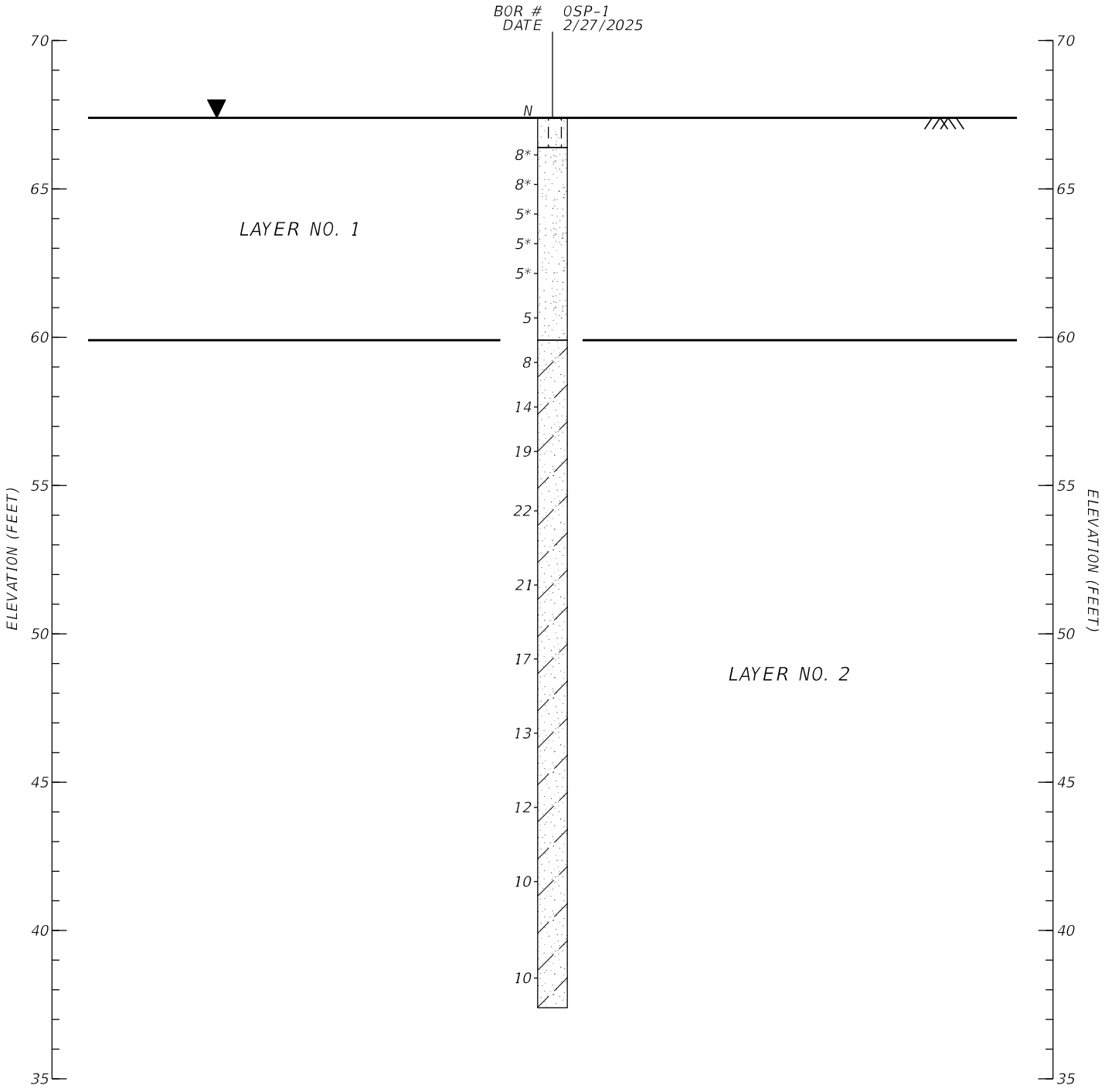
PREPARED:	I. CAPORINI, E.I.
CHECKED:	K. MORALES, P.E.
REVISED:	I. CAPORINI, E.I.
ENGINEER:	M. LANDSCHOOT, P.E.

Environmental & Geotechnical Specialists, Inc.

3772 Kori Road
Jacksonville, Florida 32257
Office: (904) 329-7180

SOIL BORING LOCATION MAP
SIGNAL POLES
I-75 (SR 93) AT SR 25 (US 41)
COLUMBIA COUNTY, FLORIDA

SCALE:	AS SHOWN	DATE:	MARCH 2025
PROJ. NO.:	364-13-24-03	FIGURE NO.:	4



LAYER NO.	LAYER DESCRIPTION
1	LOOSE FINE SAND (SP-SM)
2	LOOSE to MEDIUM DENSE CLAYEY FINE SAND (SC)

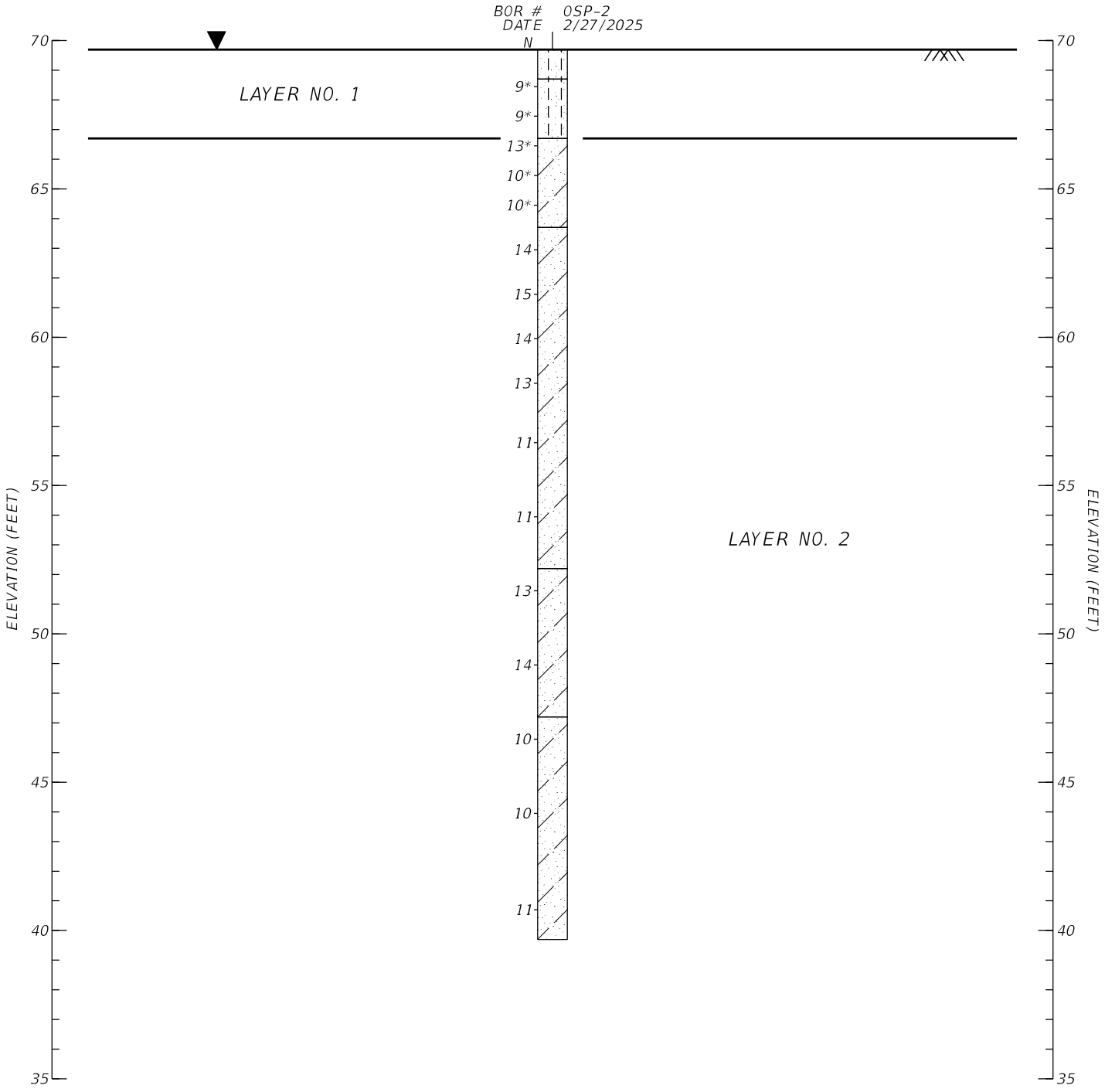
NOTES

1. GROUNDWATER ASSUMED AT GROUND SURFACE FOR DESIGN CALCULATIONS.
2. ASTERISK (*) INDICATES EQUIVALENT SPT N-VALUES CONVERTED FROM CONE PENETROMETER INDEX (CPI) VALUES.

LEGEND

▼ DESIGN GROUNDWATER

DRAWN: I. CAPORINI, E.I.	CHECKED: K. MORALES, P.E.	Environmental & Geotechnical Specialists, Inc. 3772 Kori Road Jacksonville, Florida 32257 Office: (904) 329-7180	DESIGN FIGURE SIGNAL POLES I-75 (SR 93) AT SR 25 (US 41) COLUMBIA COUNTY, FLORIDA
ENGINEER: M. LANDSCHOOT, P.E.			
CLIENT: OSIRIS 9 CONSULTING, LLC			
PROJ. NO.: 364-13-24-03	SCALE: AS SHOWN		DATE: JANUARY 2025 / FIGURE NO.: 5A



LAYER NO.	LAYER DESCRIPTION
1	MEDIUM DENSE SILTY FINE SAND (SM)
2	LOOSE to MEDIUM DENSE CLAYEY FINE SAND to PLASTIC CLAYEY SAND (SC)

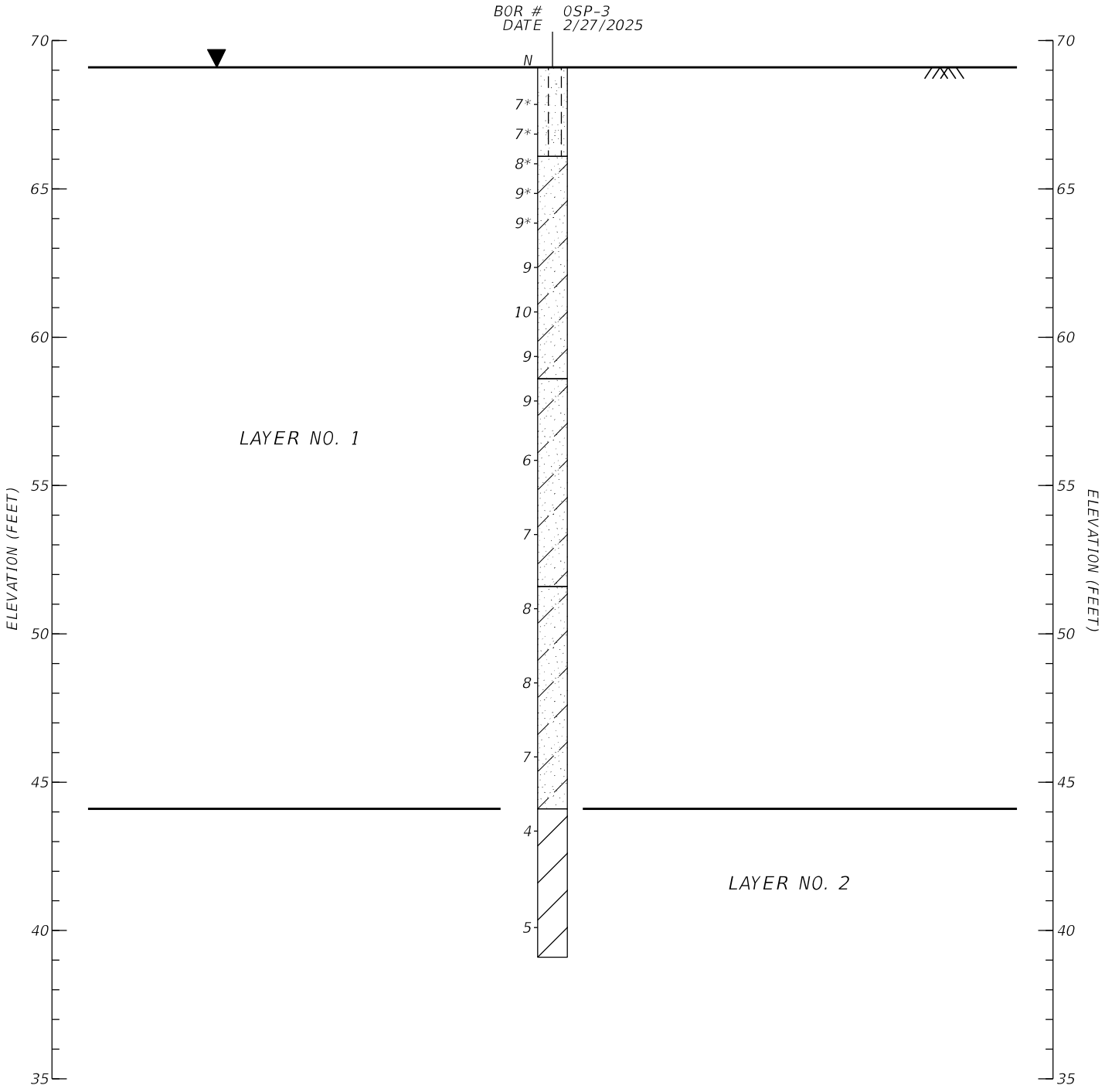
NOTES

1. GROUNDWATER ASSUMED AT GROUND SURFACE FOR DESIGN CALCULATIONS.
2. ASTERISK (*) INDICATES EQUIVALENT SPT N-VALUES CONVERTED FROM CONE PENETROMETER INDEX (CPI) VALUES.

LEGEND

▼ DESIGN GROUNDWATER

DRAWN: I. CAPORINI, E.I.	CHECKED: K. MORALES, P.E.	Environmental & Geotechnical Specialists, Inc. 3772 Kori Road Jacksonville, Florida 32257 Office: (904) 329-7180	DESIGN FIGURE SIGNAL POLES I-75 (SR 93) AT SR 25 (US 41) COLUMBIA COUNTY, FLORIDA
ENGINEER: M. LANDSCHOOT, P.E.			
CLIENT: OSIRIS 9 CONSULTING, LLC			
PROJ. NO.: 364-13-24-03	SCALE: AS SHOWN		DATE: JANUARY 2025 / FIGURE NO.: 5B



LAYER NO.	LAYER DESCRIPTION
1	LOOSE to MEDIUM DENSE SILTY FINE SAND to HIGHLY PLASTIC CLAYEY SAND (SM to SC)
2	FIRM HIGHLY PLASTIC CLAY (CH)

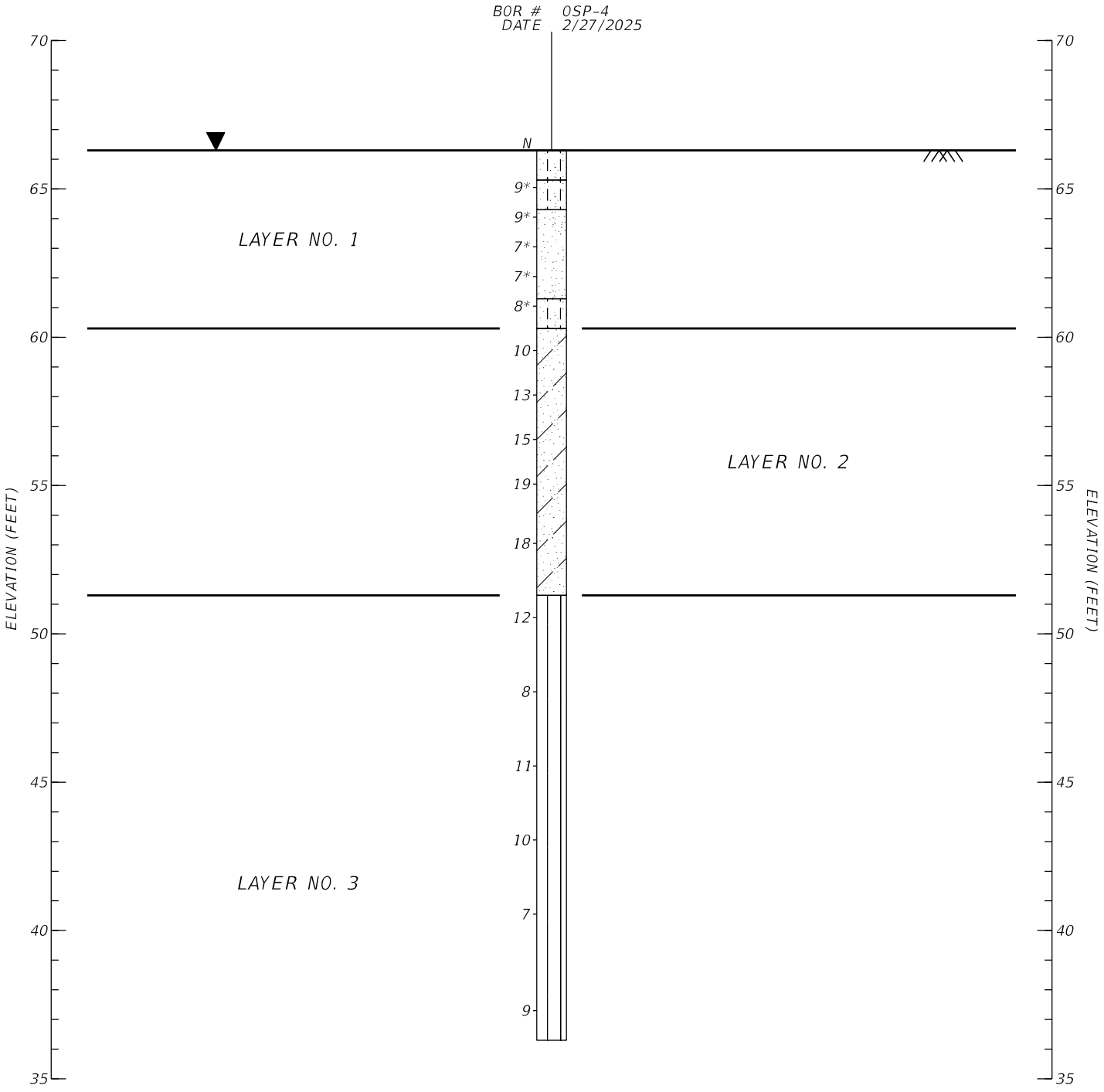
NOTES

1. GROUNDWATER ASSUMED AT GROUND SURFACE FOR DESIGN CALCULATIONS.
2. ASTERISK (*) INDICATES EQUIVALENT SPT N-VALUES CONVERTED FROM CONE PENETROMETER INDEX (CPI) VALUES.

LEGEND

▼ DESIGN GROUNDWATER

DRAWN: I. CAPORINI, E.I.	CHECKED: K. MORALES, P.E.	Environmental & Geotechnical Specialists, Inc. 3772 Kori Road Jacksonville, Florida 32257 Office: (904) 329-7180	DESIGN FIGURE SIGNAL POLES I-75 (SR 93) AT SR 25 (US 41) COLUMBIA COUNTY, FLORIDA
ENGINEER: M. LANDSCHOOT, P.E.			
CLIENT: OSIRIS 9 CONSULTING, LLC			
PROJ. NO.: 364-13-24-03	SCALE: AS SHOWN		DATE: JANUARY 2025 / FIGURE NO.: 5C



LAYER NO.	LAYER DESCRIPTION
1	LOOSE FINE SAND to SILTY FINE SAND (SP-SM to SM)
2	MEDIUM DENSE CLAYEY FINE SAND (SC)
3	STIFF HIGHLY PLASTIC SILT WITH SAND (MH)

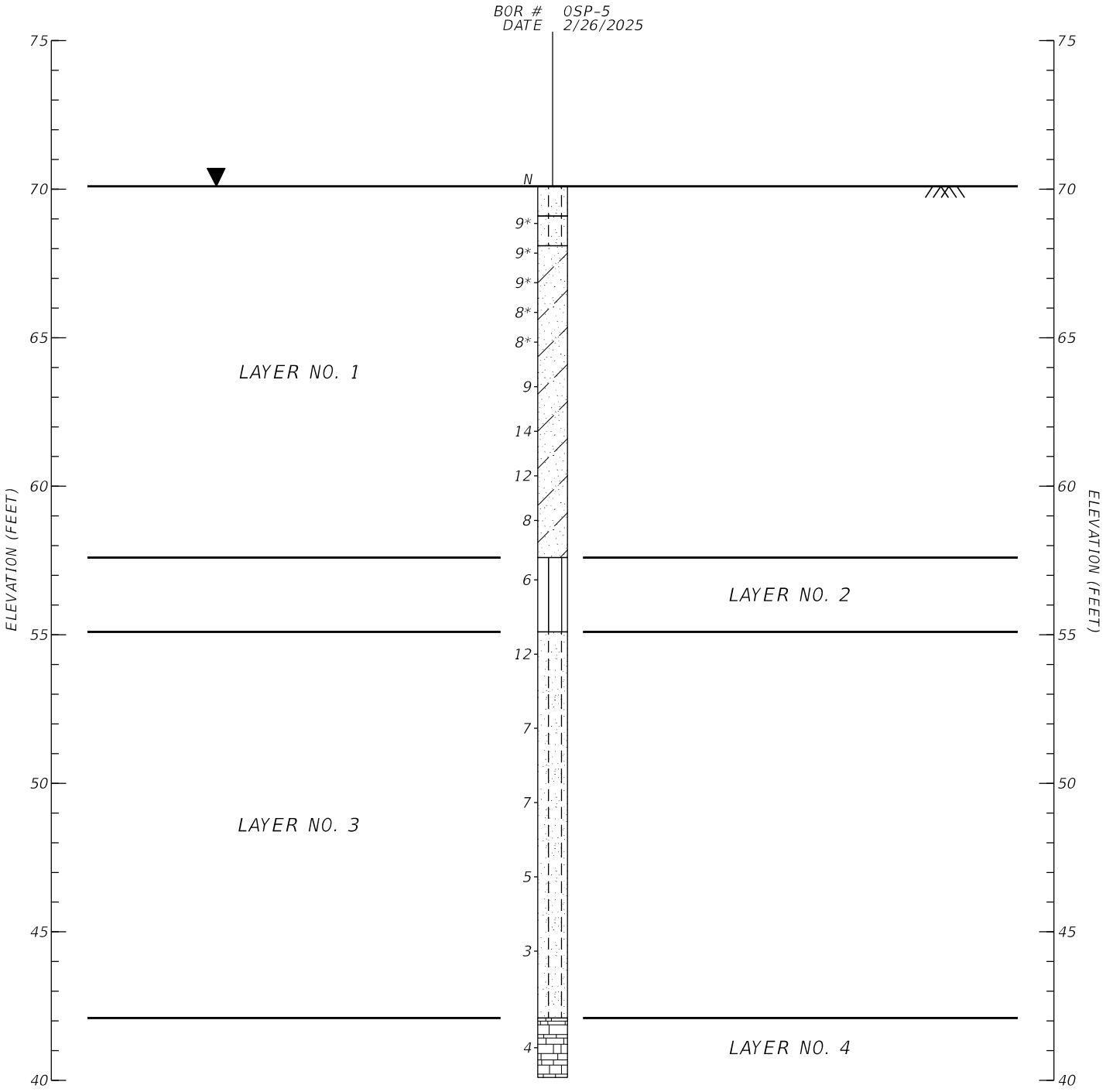
NOTES

1. GROUNDWATER ASSUMED AT GROUND SURFACE FOR DESIGN CALCULATIONS.
2. ASTERISK (*) INDICATES EQUIVALENT SPT N-VALUES CONVERTED FROM CONE PENETROMETER INDEX (CPI) VALUES.

LEGEND

▼ DESIGN GROUNDWATER

DRAWN: I. CAPORINI, E.I.	CHECKED: K. MORALES, P.E.	Environmental & Geotechnical Specialists, Inc. 3772 Kori Road Jacksonville, Florida 32257 Office: (904) 329-7180	DESIGN FIGURE SIGNAL POLES I-75 (SR 93) AT SR 25 (US 41) COLUMBIA COUNTY, FLORIDA
ENGINEER: M. LANDSCHOOT, P.E.			
CLIENT: OSIRIS 9 CONSULTING, LLC			
PROJ. NO.: 364-13-24-03	SCALE: AS SHOWN		DATE: JANUARY 2025 / FIGURE NO.: 5D



LAYER NO.	LAYER DESCRIPTION
1	LOOSE to MEDIUM DENSE CLAYEY FINE SAND (SC)
2	FIRM HIGHLY PLASTIC SANDY SILT (MH)
3	LOOSE to MEDIUM DENSE SILTY FINE SAND (SM)
4	HIGHLY WEATHERED LIMESTONE

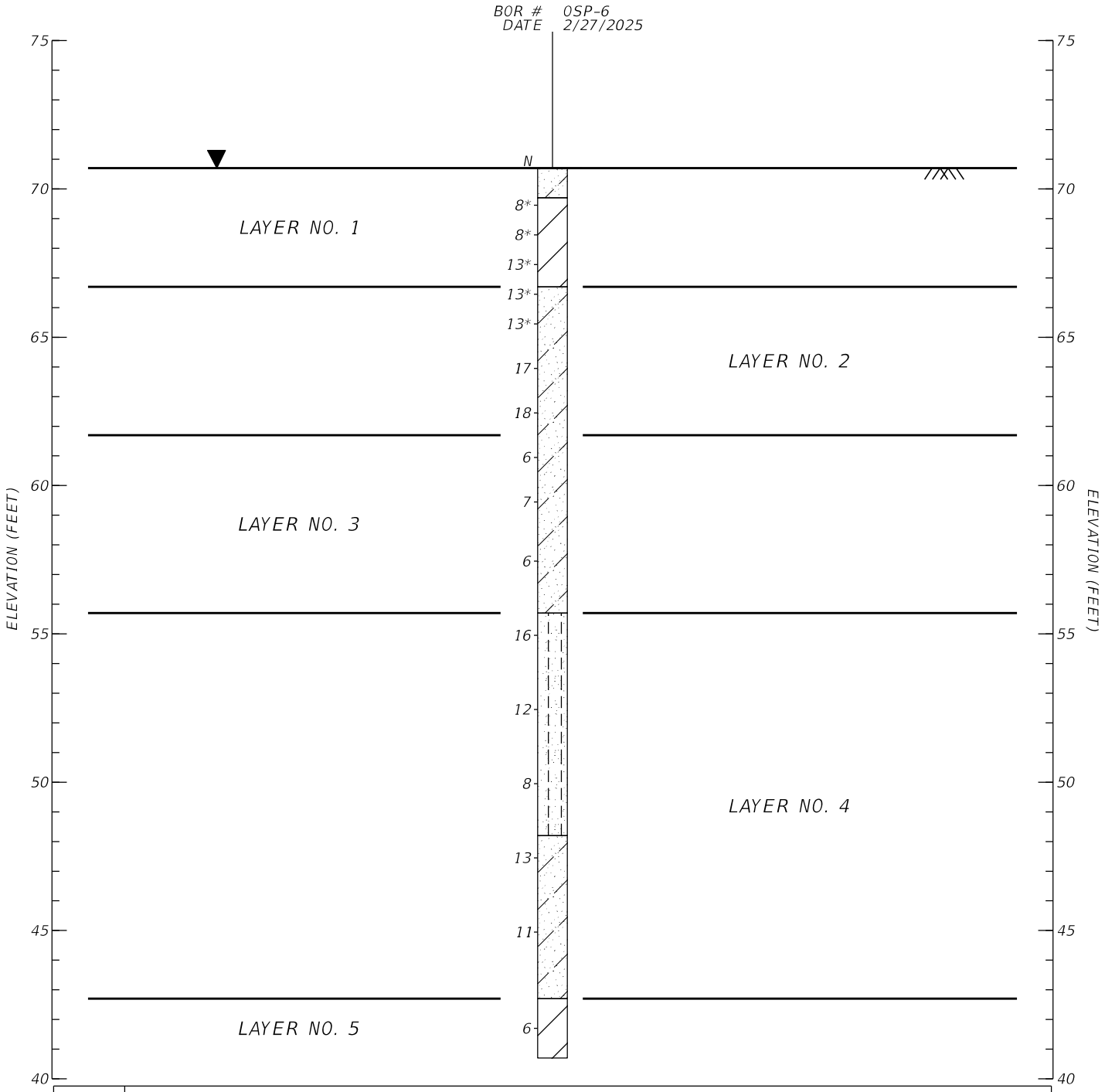
NOTES

1. GROUNDWATER ASSUMED AT GROUND SURFACE FOR DESIGN CALCULATIONS.
2. ASTERISK (*) INDICATES EQUIVALENT SPT N-VALUES CONVERTED FROM CONE PENETROMETER INDEX (CPI) VALUES.

LEGEND

▼ DESIGN GROUNDWATER

DRAWN: I. CAPORINI, E.I.	CHECKED: K. MORALES, P.E.	Environmental & Geotechnical Specialists, Inc. 3772 Kori Road Jacksonville, Florida 32257 Office: (904) 329-7180	DESIGN FIGURE SIGNAL POLES I-75 (SR 93) AT SR 25 (US 41) COLUMBIA COUNTY, FLORIDA
ENGINEER: M. LANDSCHOOT, P.E.			
CLIENT: OSIRIS 9 CONSULTING, LLC			
PROJ. NO.: 364-13-24-03	SCALE: AS SHOWN		DATE: JANUARY 2025 / FIGURE NO.: 5E



LAYER NO.	LAYER DESCRIPTION
1	STIFF HIGHLY PLASTIC CLAY WITH SAND (CH)
2	MEDIUM DENSE PLASTIC CLAYEY SAND (SC)
3	LOOSE PLASTIC CLAYEY SAND (SC)
4	MEDIUM DENSE SILTY FINE SAND to PLASTIC CLAYEY SAND (SM to SC)
5	FIRM HIGHLY PLASTIC CLAY WITH SAND (CH)

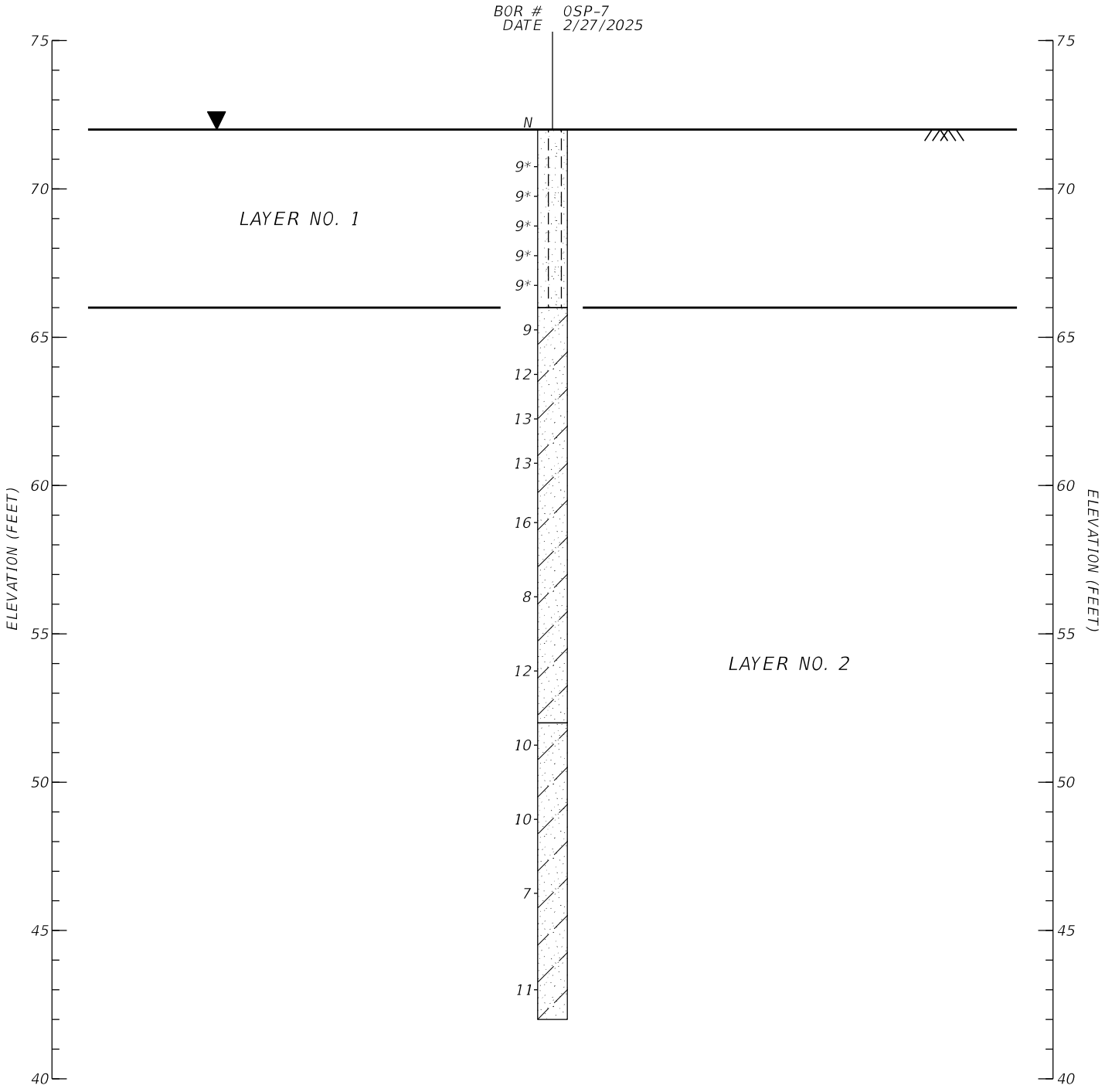
NOTES

1. GROUNDWATER ASSUMED AT GROUND SURFACE FOR DESIGN CALCULATIONS.
2. ASTERISK (*) INDICATES EQUIVALENT SPT N-VALUES CONVERTED FROM CONE PENETROMETER INDEX (CPI) VALUES.

LEGEND

▼ DESIGN GROUNDWATER

DRAWN: I. CAPORINI, E.I.	CHECKED: K. MORALES, P.E.	Environmental & Geotechnical Specialists, Inc. 3772 Kori Road Jacksonville, Florida 32257 Office: (904) 329-7180	DESIGN FIGURE SIGNAL POLES I-75 (SR 93) AT SR 25 (US 41) COLUMBIA COUNTY, FLORIDA
ENGINEER: M. LANDSCHOOT, P.E.			
CLIENT: OSIRIS 9 CONSULTING, LLC			
PROJ. NO.: 364-13-24-03	SCALE: AS SHOWN	DATE: JANUARY 2025	FIGURE NO.: 5F



LAYER NO.	LAYER DESCRIPTION
1	MEDIUM DENSE SILTY FINE SAND (SM)
2	LOOSE to MEDIUM DENSE CLAYEY FINE SAND to HIGHLY PLASTIC CLAYEY SAND (SC)

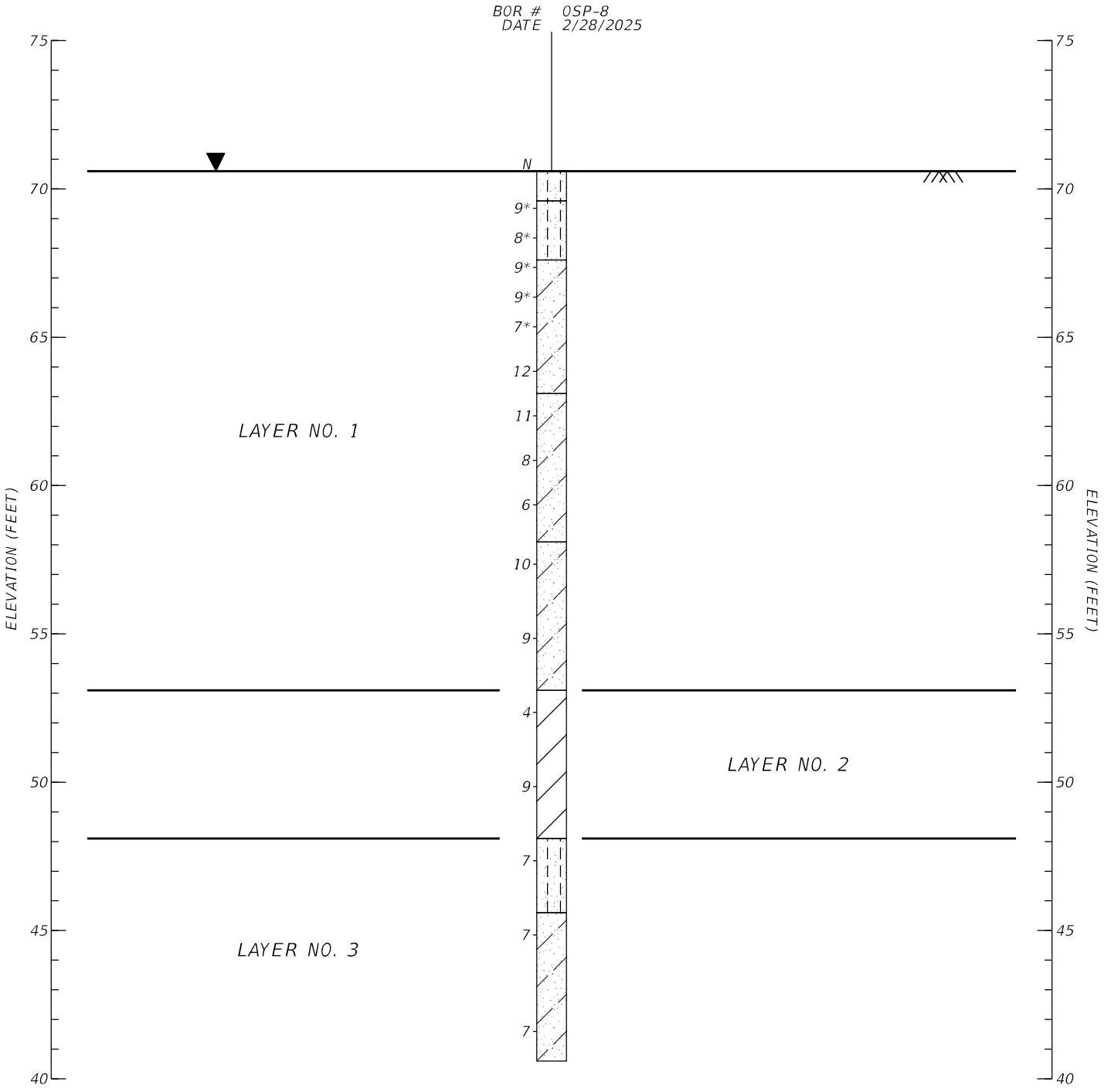
NOTES

1. GROUNDWATER ASSUMED AT GROUND SURFACE FOR DESIGN CALCULATIONS.
2. ASTERISK (*) INDICATES EQUIVALENT SPT N-VALUES CONVERTED FROM CONE PENETROMETER INDEX (CPI) VALUES.

LEGEND

▼ DESIGN GROUNDWATER

DRAWN: I. CAPORINI, E.I.	CHECKED: K. MORALES, P.E.	Environmental & Geotechnical Specialists, Inc. 3772 Kori Road Jacksonville, Florida 32257 Office: (904) 329-7180	DESIGN FIGURE SIGNAL POLES I-75 (SR 93) AT SR 25 (US 41) COLUMBIA COUNTY, FLORIDA
ENGINEER: M. LANDSCHOOT, P.E.			
CLIENT: OSIRIS 9 CONSULTING, LLC			
PROJ. NO.: 364-13-24-03	SCALE: AS SHOWN		DATE: JANUARY 2025 / FIGURE NO.: 5G



LAYER NO.	LAYER DESCRIPTION
1	LOOSE to MEDIUM DENSE SILTY FINE SAND to PLASTIC CLAYEY SAND (SM to SC)
2	FIRM to STIFF HIGHLY PLASTIC CLAY (CH)
3	LOOSE SILTY FINE SAND to CLAYEY FINE SAND (SM to SC)

NOTES

1. GROUNDWATER ASSUMED AT GROUND SURFACE FOR DESIGN CALCULATIONS.
2. ASTERISK (*) INDICATES EQUIVALENT SPT N-VALUES CONVERTED FROM CONE PENETROMETER INDEX (CPI) VALUES.

LEGEND

▼ DESIGN GROUNDWATER

DRAWN: I. CAPORINI, E.I.	CHECKED: K. MORALES, P.E.	Environmental & Geotechnical Specialists, Inc. 3772 Kori Road Jacksonville, Florida 32257 Office: (904) 329-7180	DESIGN FIGURE SIGNAL POLES I-75 (SR 93) AT SR 25 (US 41) COLUMBIA COUNTY, FLORIDA
ENGINEER: M. LANDSCHOOT, P.E.			
CLIENT: OSIRIS 9 CONSULTING, LLC			
PROJ. NO.: 364-13-24-03	SCALE: AS SHOWN		DATE: JANUARY 2025 / FIGURE NO.: 5H

APPENDIX A

REPORT OF SIGNALIZATION BORINGS

NOTES

1. NUMBERS LEFT OF BORINGS INDICATE STANDARD PENETRATION TEST (SPT) N-VALUES OR EQUIVALENT FOR 12-INCH PENETRATION.
2. GROUNDWATER ELEVATIONS SHOWN ARE THE GROUNDWATER ELEVATIONS ENCOUNTERED. FLUCTUATIONS IN THE ELEVATION OF GROUNDWATER SHOULD BE EXPECTED.
3. SOIL DESCRIPTIONS, TEST DATA, AND STANDARD PENETRATION VALUES SHOWN ARE FOR THE SOIL BORING ONLY AND MAY NOT APPLY TO ANY OTHER LOCATIONS EXCEPT AT THE LOCATION OF THE SOIL BORING. EXTRAPOLATION OF THE SOIL BORING DATA TO OTHER LOCATIONS IS THE SOLE RESPONSIBILITY OF THE PERSON PERFORMING THE EXTRAPOLATION.
4. ASTERISK INDICATES EQUIVALENT SPT N-VALUES CONVERTED FROM CONE PENETROMETER INDEX (CPI) VALUES.

AUTOMATIC HAMMER

GRANULAR MATERIALS RELATIVE DENSITY	SPT (BLOWS/12 IN.)	SILTS AND CLAYS CONSISTENCY	SPT (BLOWS/12 IN.)
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

SPLIT-SPOON: INSIDE DIAMETER: 1.375 IN
OUTSIDE DIAMETER: 2.0 IN
AVG. HAMMER DROP: 30.0 IN
HAMMER WEIGHT: 140 LBS

LEGEND

SPT SOIL BORING LOCATION

MEASURED GROUNDWATER LEVEL

LABORATORY TESTING RESULTS

WATER CONTENT	Wc=
-200 SIEVE	-200=
PLASTICITY INDEX	PI=
LIQUID LIMIT	LL=
ORGANIC CONTENT	OC%=
USCS GROUP SYMBOL	(SM)

FINE SAND (SP-SM)

SILTY FINE SAND, SILTY FINE SAND WITH ORGANICS (SM)

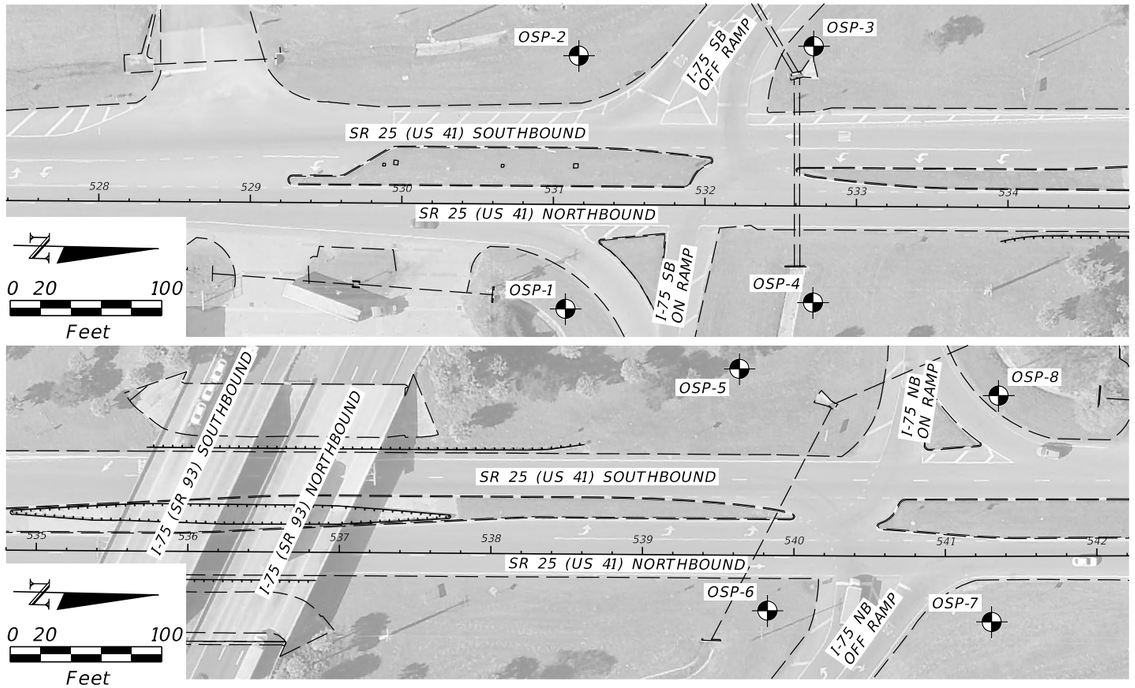
CLAYEY FINE SAND TO HIGHLY PLASTIC CLAYEY SAND (SC)

HIGHLY PLASTIC SANDY CLAY TO HIGHLY PLASTIC CLAY (CH)

HIGHLY PLASTIC SANDY SILT TO HIGHLY PLASTIC SILT WITH SAND (MH)

HIGHLY WEATHERED LIMESTONE

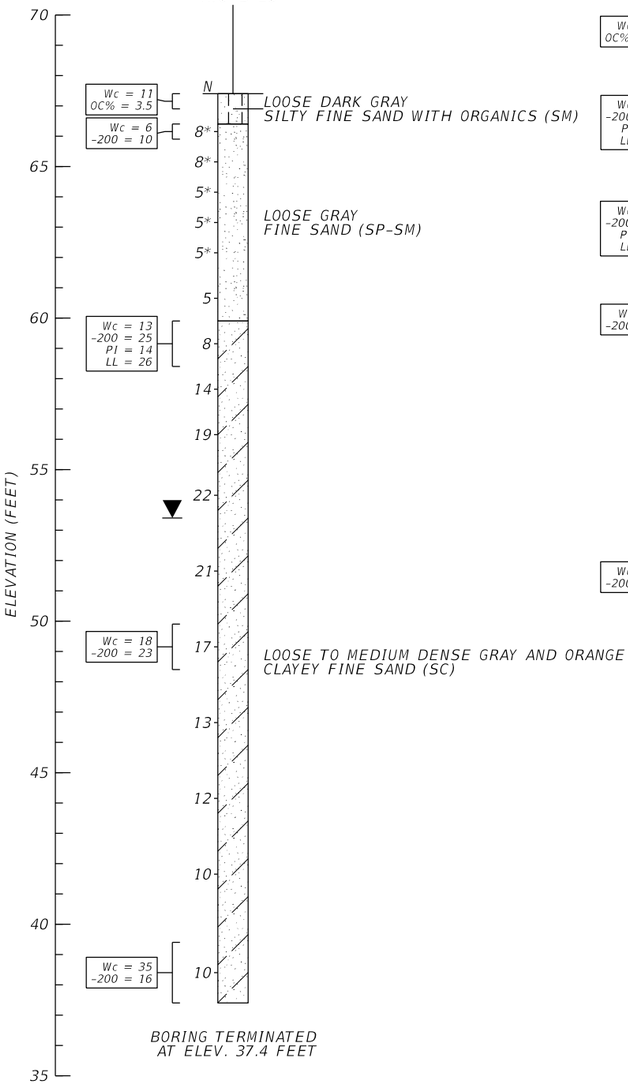
SOIL BORING LOCATION MAPS



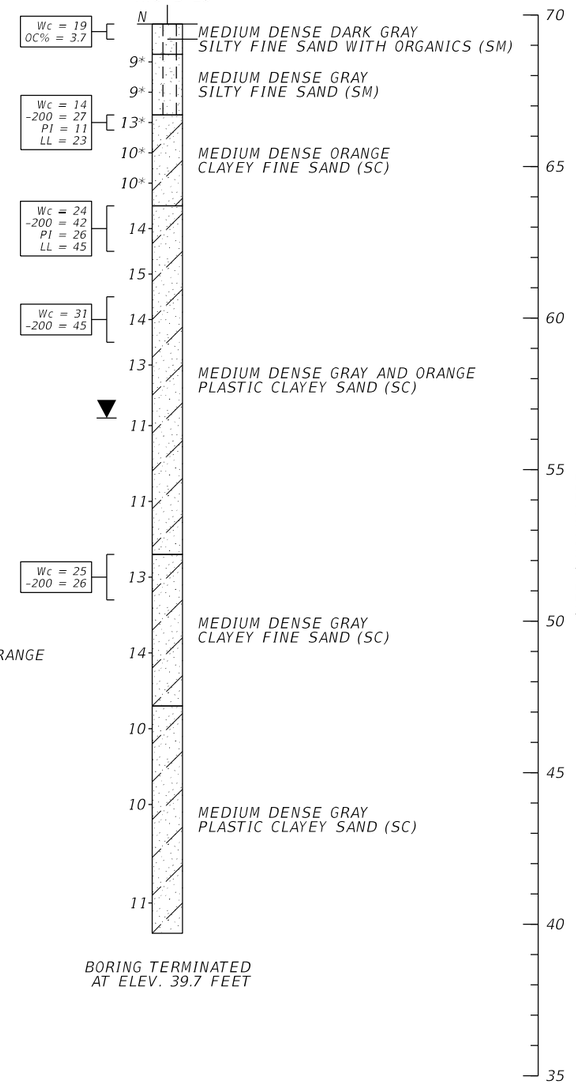
ENVIRONMENTAL CLASSIFICATION

SUBSTRUCTURE: EXTREMELY AGGRESSIVE FOR STEEL AND CONCRETE (pH=4.5).

BORE # OSP-1
REFERENCE ℄ SURVEY US 41
STATION 531+08
OFFSET 69 FEET RIGHT
ELEVATION 67.4 FEET
DATE 2/27/2025
DRILLER W. CHOMAT
HAMMER AUTOMATIC
RIG D-25



BORE # OSP-2
REFERENCE ℄ SURVEY US 41
STATION 531+16
OFFSET 98 FEET LEFT
ELEVATION 69.7 FEET
DATE 2/27/2025
DRILLER W. CHOMAT
HAMMER AUTOMATIC
RIG D-25



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

ENGINEER OF RECORD
MATTHEW R. LANDSCHOOT, P.E.
LICENSE NUMBER: 76183
ENVIRONMENTAL AND GEOTECHNICAL SPECIALISTS, INC.
3772 KORI ROAD
JACKSONVILLE, FLORIDA 32257

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

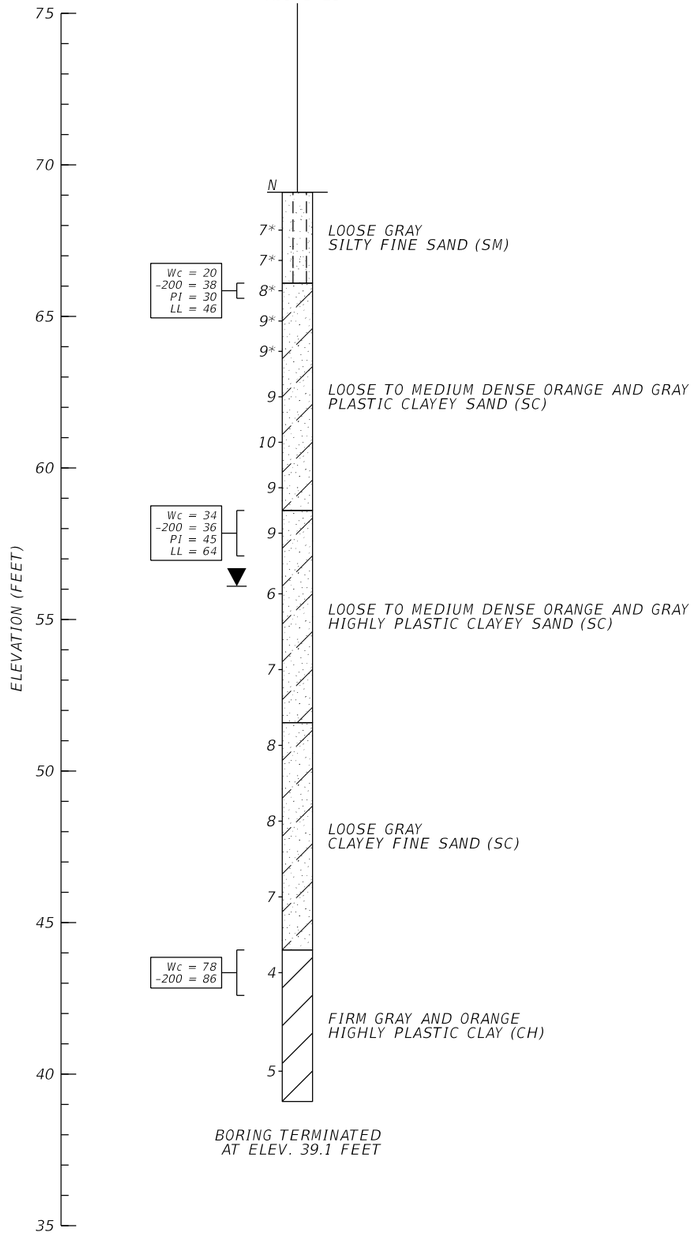
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 25	COLUMBIA	445725-5-54-02

REPORT OF SIGNALIZATION BORINGS

SHEET NO.

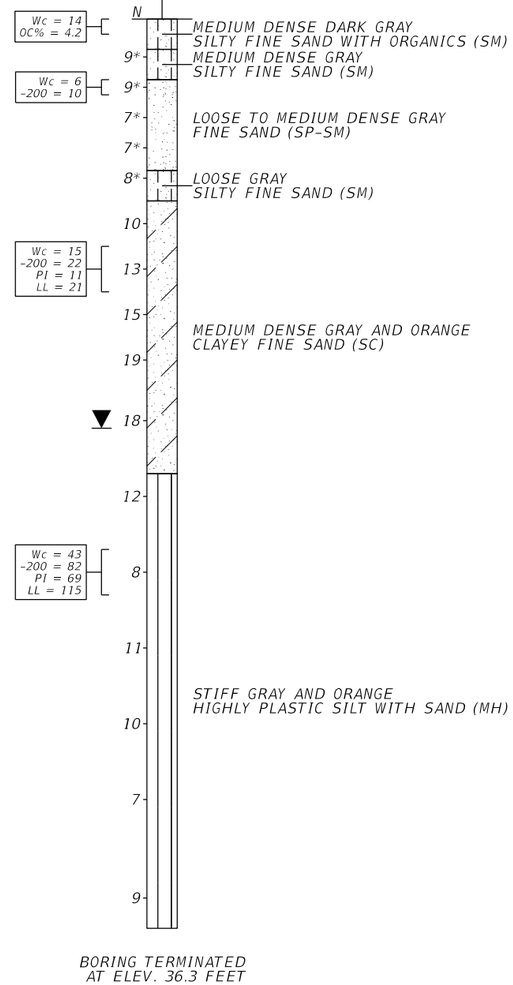
U:\1 - Active Projects\FDOT\44572555402\Geotechnical\RPTBRD02.dgn : REPORTOFBORINGS - 1
icaporini 8/25/2025 4:32:36 PM

BORE # OSP-3
REFERENCE @ SURVEY US 41
STATION 532+71
OFFSET 105 FEET LEFT
ELEVATION 69.1 FEET
DATE 2/27/2025
DRILLER W. CHOMAT
HAMMER AUTOMATIC
RIG D-25



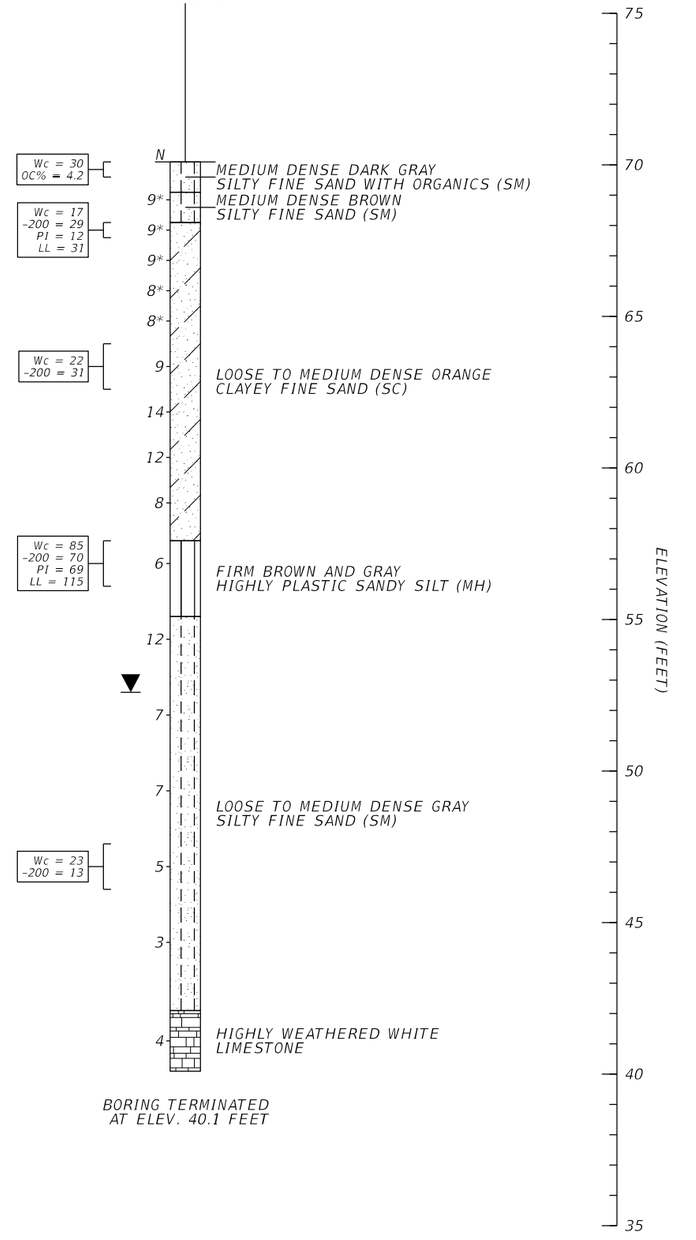
BORING TERMINATED
AT ELEV. 39.1 FEET

BORE # OSP-4
REFERENCE @ SURVEY US 41
STATION 532+72
OFFSET 64 FEET RIGHT
ELEVATION 66.3 FEET
DATE 2/27/2025
DRILLER W. CHOMAT
HAMMER AUTOMATIC
RIG D-25



BORING TERMINATED
AT ELEV. 36.3 FEET

BORE # OSP-5
REFERENCE @ SURVEY US 41
STATION 539+63
OFFSET 123 FEET LEFT
ELEVATION 70.1 FEET
DATE 2/26/2025
DRILLER W. CHOMAT
HAMMER AUTOMATIC
RIG D-25



BORING TERMINATED
AT ELEV. 40.1 FEET

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

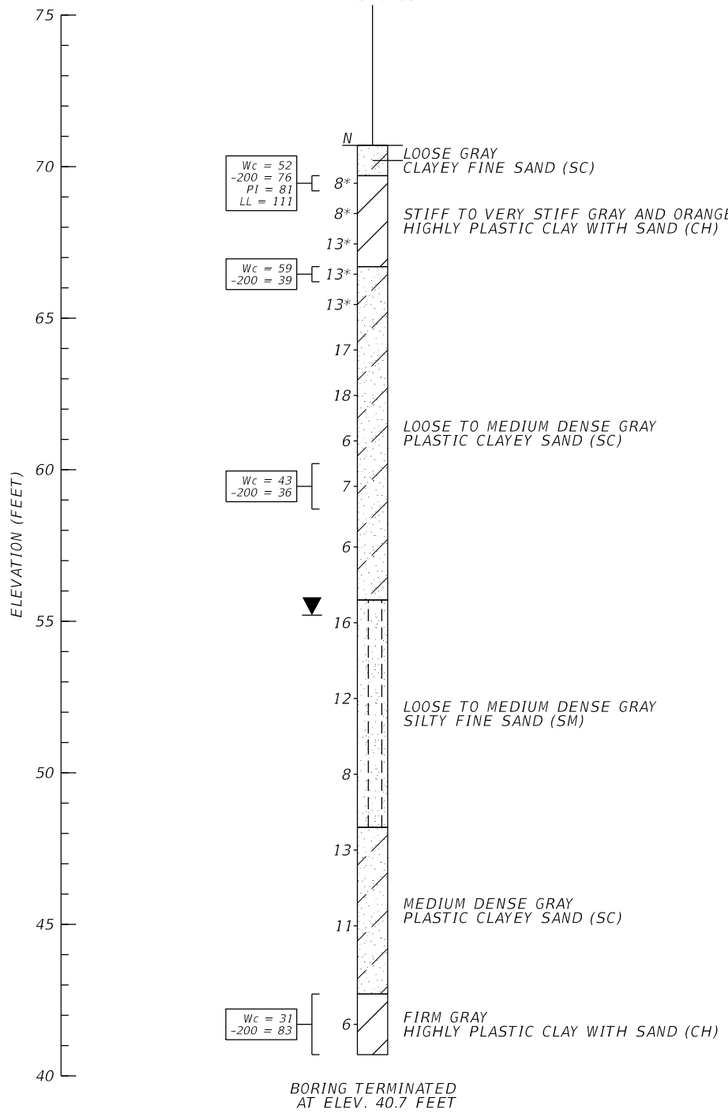
ENGINEER OF RECORD
MATTHEW R. LANDSCHOOT, P.E.
LICENSE NUMBER: 76183
ENVIRONMENTAL AND GEOTECHNICAL
SPECIALISTS, INC.
3772 KORI ROAD
JACKSONVILLE, FLORIDA 32257

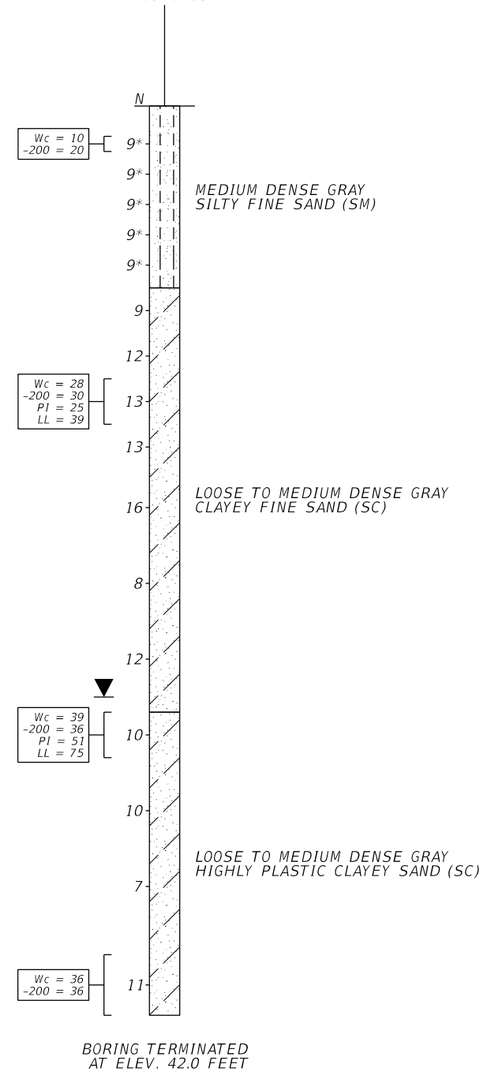
STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

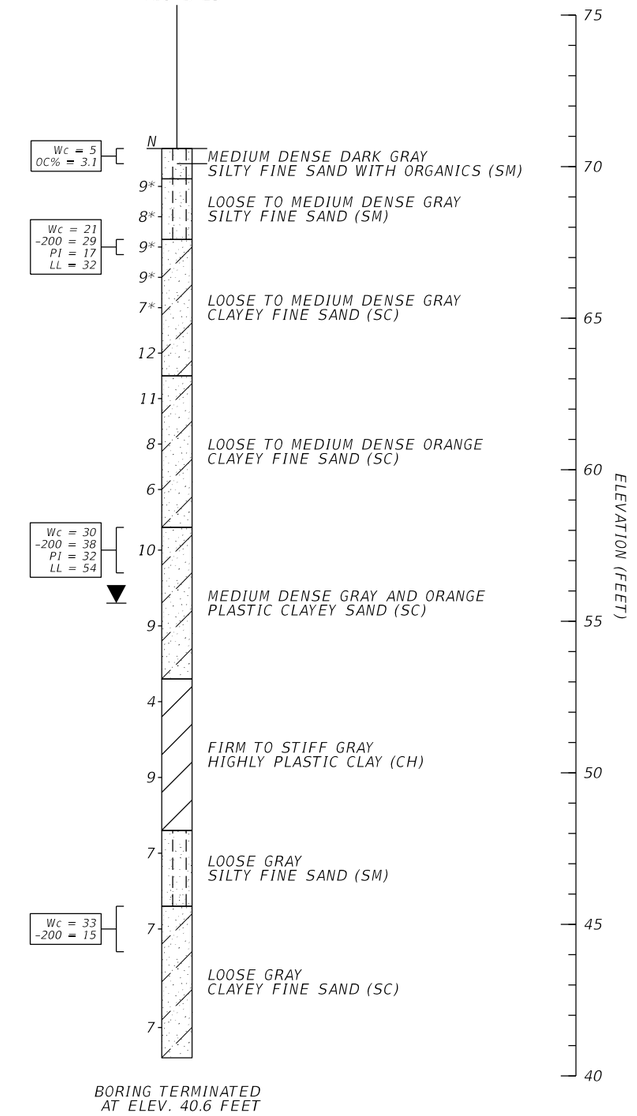
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 25	COLUMBIA	445725-5-54-02

REPORT OF SIGNALIZATION BORINGS

SHEET NO.







REVISIONS				ENGINEER OF RECORD	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			REPORT OF SIGNALIZATION BORINGS	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION	MATTHEW R. LANDSCHOOT, P.E. LICENSE NUMBER: 76183 ENVIRONMENTAL AND GEOTECHNICAL SPECIALISTS, INC. 3772 KORI ROAD JACKSONVILLE, FLORIDA 32257	ROAD NO.	COUNTY	FINANCIAL PROJECT ID		
					SR 25	COLUMBIA	445725-5-54-02		

THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.

U:\1 - Active Projects\FDOT\44572555402\Geotechnical\RPTBRD02.dgn : REPORTOFBORINGS - 3
icaporini 8/25/2025 4:32:37 PM

APPENDIX B

SOIL BORING LOGS

ENVIRONMENTAL & GEOTECHNICAL SPECIALISTS, INC.
3772 Kori Road
Jacksonville, Florida 32257
Office: (904) 329-7180

PROJECT: I-75 AT US 41 SIGNAL POLES
CLIENT: OSIRIS 9 CONSULTING, LLC
PROJECT NO.: 364-13-24-03
PROJECT LOCATION: COLUMBIA COUNTY, FLORIDA
BORING NO.: OSP-1
DRILLER: W. CHOMAT
DEPTH TO WATER (FEET): INITIAL: ▽ >10.5 **24 HR:** ▽ 14.0

HAMMER TYPE: AUTOMATIC
STATION: 531+08
OFFSET: 69 FEET RIGHT
ELEVATION (FEET): 67.4
DATE: 02/27/2025
FLUID LOSS: NONE
CASING DEPTH (FEET):

DEPTH (METERS)	DEPTH (FEET)	SAMPLE	SYMBOL	DESCRIPTION	USCS	TEST RESULTS	Wc (%)	N	N-Value
0	0			LOOSE DARK GRAY SILTY FINE SAND WITH ORGANICS	SM	ORG%= 3.5	11	--	--
						-200%=10	6	8	
	2						6	8	
1							5	5	
	4			LOOSE GRAY FINE SAND	SP-SM		4	5	
							4	5	
	6								
2							7	5	
	8			LOOSE GRAY AND ORANGE CLAYEY FINE SAND	SC	-200%=25 LL=26 PI=14	13	8	
3	10			MEDIUM DENSE GRAY AND ORANGE CLAYEY FINE SAND			15	14	
							17	19	
	12								
4							18	22	
	14 ▽								

Wc (%) axis: 10, 20, 30, 40, 60
N-Value axis: 10, 20, 30, 40, 60, 80

NOTES: N/M MEANS NOT MEASURED
N/A MEANS NOT AVAILABLE

This information pertains only to this boring and should not be interpreted as being indicitive of the site.

ENVIRONMENTAL & GEOTECHNICAL SPECIALISTS, INC.
3772 Kori Road
Jacksonville, Florida 32257
Office: (904) 329-7180

PROJECT: I-75 AT US 41 SIGNAL POLES
CLIENT: OSIRIS 9 CONSULTING, LLC
PROJECT NO.: 364-13-24-03
PROJECT LOCATION: COLUMBIA COUNTY, FLORIDA
BORING NO.: OSP-1
DRILLER: W. CHOMAT
DEPTH TO WATER (FEET): INITIAL: ▽ >10.5 **24 HR:** ▽ 14.0

HAMMER TYPE: AUTOMATIC
STATION: 531+08
OFFSET: 69 FEET RIGHT
ELEVATION (FEET): 67.4
DATE: 02/27/2025
FLUID LOSS: NONE
CASING DEPTH (FEET):

DEPTH (METERS)	DEPTH (FEET)	SAMPLE	SYMBOL	DESCRIPTION	USCS	TEST RESULTS	Wc (%)	N	N-Value
5	16			MEDIUM DENSE GRAY CLAYEY FINE SAND			15	21	
	18					-200%=23	18	17	
6	20				SC		28	13	
	22								
7	24			MEDIUM DENSE GRAY AND ORANGE CLAYEY FINE SAND			30	12	
	26						33	10	
8	28					-200%=16	35	10	

Wc (%): 10, 20, 30, 40, 60
N-Value: 10, 20, 30, 40, 60, 80

NOTES: N/M MEANS NOT MEASURED
N/A MEANS NOT AVAILABLE

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ENVIRONMENTAL & GEOTECHNICAL SPECIALISTS, INC.

3772 Kori Road
Jacksonville, Florida 32257
Office: (904) 329-7180

PROJECT: I-75 AT US 41 SIGNAL POLES
CLIENT: OSIRIS 9 CONSULTING, LLC
PROJECT NO.: 364-13-24-03
PROJECT LOCATION: COLUMBIA COUNTY, FLORIDA
BORING NO.: OSP-1
DRILLER: W. CHOMAT
DEPTH TO WATER (FEET): INITIAL: ▽ >10.5 **24 HR:** ▽ 14.0

HAMMER TYPE: AUTOMATIC
STATION: 531+08
OFFSET: 69 FEET RIGHT
ELEVATION (FEET): 67.4
DATE: 02/27/2025
FLUID LOSS: NONE
CASING DEPTH (FEET):

DEPTH (METERS)	DEPTH (FEET)	SAMPLE	SYMBOL	DESCRIPTION	USCS	TEST RESULTS	Wc (%)	Wc (%) 10 20 30 40 60	N	N-Value 10 20 30 40 60 80
9	30									
	32									
10	34									
	36									
11	38									
	40									
12	42									
13										

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NOTES: N/M MEANS NOT MEASURED
N/A MEANS NOT AVAILABLE

ENVIRONMENTAL & GEOTECHNICAL SPECIALISTS, INC.
3772 Kori Road
Jacksonville, Florida 32257
Office: (904) 329-7180

PROJECT: I-75 AT US 41 SIGNAL POLES
CLIENT: OSIRIS 9 CONSULTING, LLC
PROJECT NO.: 364-13-24-03
PROJECT LOCATION: COLUMBIA COUNTY, FLORIDA
BORING NO.: OSP-2
DRILLER: W. CHOMAT
DEPTH TO WATER (FEET): INITIAL: ▽ >7.5 **24 HR:** ▽ 13.0

HAMMER TYPE: AUTOMATIC
STATION: 531+16
OFFSET: 98 FEET LEFT
ELEVATION (FEET): 69.7
DATE: 02/27/2025
FLUID LOSS: NONE
CASING DEPTH (FEET):

DEPTH (METERS)	DEPTH (FEET)	SAMPLE	SYMBOL	DESCRIPTION	USCS	TEST RESULTS	Wc (%)	N	N-Value
0	0			MEDIUM DENSE DARK GRAY SILTY FINE SAND WITH ORGANICS	SM	ORG%= 3.7	19	--	--
	2			MEDIUM DENSE GRAY SILTY FINE SAND	SM		12	9	
							12	9	
1						-200%=27 LL=23 PI=11	14	13	
	4			MEDIUM DENSE ORANGE CLAYEY FINE SAND	SC		22	10	
							19	10	
	6					-200%=42 LL=45 PI=26	24	14	
2									
	8						19	15	
						-200%=45			
3	10						31	14	
				MEDIUM DENSE GRAY AND ORANGE PLASTIC CLAYEY SAND	SC		23	13	
	12								
4		▽					26	11	
	14								

Wc (%) axis: 10, 20, 30, 40, 60
N-Value axis: 10, 20, 30, 40, 60, 80

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NOTES: N/M MEANS NOT MEASURED
N/A MEANS NOT AVAILABLE

ENVIRONMENTAL & GEOTECHNICAL SPECIALISTS, INC.
3772 Kori Road
Jacksonville, Florida 32257
Office: (904) 329-7180

PROJECT: I-75 AT US 41 SIGNAL POLES
CLIENT: OSIRIS 9 CONSULTING, LLC
PROJECT NO.: 364-13-24-03
PROJECT LOCATION: COLUMBIA COUNTY, FLORIDA
BORING NO.: OSP-2
DRILLER: W. CHOMAT
DEPTH TO WATER (FEET): INITIAL: ▽ >7.5 **24 HR:** ▽ 13.0

HAMMER TYPE: AUTOMATIC
STATION: 531+16
OFFSET: 98 FEET LEFT
ELEVATION (FEET): 69.7
DATE: 02/27/2025
FLUID LOSS: NONE
CASING DEPTH (FEET):

DEPTH (METERS)	DEPTH (FEET)	SAMPLE	SYMBOL	DESCRIPTION	USCS	TEST RESULTS	Wc (%)	N	N-Value
	16						27	11	
5									
	18					-200%=26	25	13	
6				MEDIUM DENSE GRAY CLAYEY FINE SAND	SC				
	20						24	14	
	22								
7							30	10	
	24			MEDIUM DENSE GRAY PLASTIC CLAYEY SAND					
	26				SC		35	10	
8									
	28								
				MEDIUM DENSE GRAY			38	11	

Wc (%) axis: 10, 20, 30, 40, 60
N-Value axis: 10, 20, 30, 40, 60, 80

NOTES: N/M MEANS NOT MEASURED
N/A MEANS NOT AVAILABLE

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ENVIRONMENTAL & GEOTECHNICAL SPECIALISTS, INC.

3772 Kori Road
Jacksonville, Florida 32257
Office: (904) 329-7180

PROJECT: I-75 AT US 41 SIGNAL POLES
CLIENT: OSIRIS 9 CONSULTING, LLC
PROJECT NO.: 364-13-24-03
PROJECT LOCATION: COLUMBIA COUNTY, FLORIDA
BORING NO.: OSP-2
DRILLER: W. CHOMAT
DEPTH TO WATER (FEET): INITIAL: ▽ >7.5 **24 HR:** ▽ 13.0

HAMMER TYPE: AUTOMATIC
STATION: 531+16
OFFSET: 98 FEET LEFT
ELEVATION (FEET): 69.7
DATE: 02/27/2025
FLUID LOSS: NONE
CASING DEPTH (FEET):

DEPTH (METERS)	DEPTH (FEET)	SAMPLE	SYMBOL	DESCRIPTION	USCS	TEST RESULTS	Wc (%)	Wc (%) 10 20 30 40 60	N	N-Value 10 20 30 40 60 80
9	30			PLASTIC CLAYEY SAND						
10	32									
11	34									
12	36									
13	38									
	40									
	42									

NOTES: N/M MEANS NOT MEASURED
N/A MEANS NOT AVAILABLE

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ENVIRONMENTAL & GEOTECHNICAL SPECIALISTS, INC.
3772 Kori Road
Jacksonville, Florida 32257
Office: (904) 329-7180

PROJECT: I-75 AT US 41 SIGNAL POLES
CLIENT: OSIRIS 9 CONSULTING, LLC
PROJECT NO.: 364-13-24-03
PROJECT LOCATION: COLUMBIA COUNTY, FLORIDA
BORING NO.: OSP-3
DRILLER: W. CHOMAT
DEPTH TO WATER (FEET): INITIAL: ▽ 13.0 **24 HR:** ▽ N/M

HAMMER TYPE: AUTOMATIC
STATION: 532+71
OFFSET: 105 FEET LEFT
ELEVATION (FEET): 69.1
DATE: 02/27/2025
FLUID LOSS: NONE
CASING DEPTH (FEET):

DEPTH (METERS)	DEPTH (FEET)	DESCRIPTION	USCS	TEST RESULTS	Wc (%)	N
0	0	LOOSE GRAY SILTY FINE SAND	SM		6	--
					4	7
	2				12	7
1		LOOSE ORANGE AND GRAY PLASTIC CLAYEY SAND	SC	-200%=38 LL=46 PI=30	20	8
	4	MEDIUM DENSE ORANGE AND GRAY PLASTIC CLAYEY SAND	SC		21	9
					21	9
2	6				18	9
	8				27	10
3					32	9
	10	MEDIUM DENSE ORANGE AND GRAY HIGHLY PLASTIC CLAYEY SAND	SC	-200%=36 LL=64 PI=45	34	9
	12					
4	▽				27	6
	14					

Wc (%) axis: 10, 20, 30, 40, 60
N-Value axis: 10, 20, 30, 40, 60, 80

NOTES: N/M MEANS NOT MEASURED
N/A MEANS NOT AVAILABLE

This information pertains only to this boring and should not be interpreted as being indicitive of the site.

ENVIRONMENTAL & GEOTECHNICAL SPECIALISTS, INC.
3772 Kori Road
Jacksonville, Florida 32257
Office: (904) 329-7180

PROJECT: I-75 AT US 41 SIGNAL POLES
CLIENT: OSIRIS 9 CONSULTING, LLC
PROJECT NO.: 364-13-24-03
PROJECT LOCATION: COLUMBIA COUNTY, FLORIDA
BORING NO.: OSP-3
DRILLER: W. CHOMAT
DEPTH TO WATER (FEET): INITIAL: ▽ 13.0 **24 HR:** ▽ N/M

HAMMER TYPE: AUTOMATIC
STATION: 532+71
OFFSET: 105 FEET LEFT
ELEVATION (FEET): 69.1
DATE: 02/27/2025
FLUID LOSS: NONE
CASING DEPTH (FEET):

DEPTH (METERS)	DEPTH (FEET)	SAMPLE	SYMBOL	DESCRIPTION	USCS	TEST RESULTS	Wc (%)	N	N-Value
	16			LOOSE ORANGE AND GRAY HIGHLY PLASTIC CLAYEY SAND	SC		30	7	
5									
	18						23	8	
6	20			LOOSE GRAY CLAYEY FINE SAND	SC		20	8	
	22								
7							27	7	
	24								
	26			FIRM GRAY AND ORANGE HIGHLY PLASTIC CLAY	CH	-200%=86	78	4	
8									
	28						68	5	

Wc (%) axis: 10, 20, 30, 40, 60
N-Value axis: 10, 20, 30, 40, 60, 80

NOTES: N/M MEANS NOT MEASURED
N/A MEANS NOT AVAILABLE

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ENVIRONMENTAL & GEOTECHNICAL SPECIALISTS, INC.

3772 Kori Road
Jacksonville, Florida 32257
Office: (904) 329-7180

PROJECT: I-75 AT US 41 SIGNAL POLES
CLIENT: OSIRIS 9 CONSULTING, LLC
PROJECT NO.: 364-13-24-03
PROJECT LOCATION: COLUMBIA COUNTY, FLORIDA
BORING NO.: OSP-3
DRILLER: W. CHOMAT
DEPTH TO WATER (FEET): INITIAL: ▽ 13.0 **24 HR:** ▽ N/M

HAMMER TYPE: AUTOMATIC
STATION: 532+71
OFFSET: 105 FEET LEFT
ELEVATION (FEET): 69.1
DATE: 02/27/2025
FLUID LOSS: NONE
CASING DEPTH (FEET):

DEPTH (METERS)	DEPTH (FEET)	SAMPLE	SYMBOL	DESCRIPTION	USCS	TEST RESULTS	Wc (%)	N	N-Value
9	30						10 20 30 40 60		10 20 30 40 60 80
10	32								
11	34								
12	36								
13	38								
	40								
	42								

NOTES: N/M MEANS NOT MEASURED
N/A MEANS NOT AVAILABLE

This information pertains only to this boring and should not be interpreted as being indicitive of the site.

ENVIRONMENTAL & GEOTECHNICAL SPECIALISTS, INC.
3772 Kori Road
Jacksonville, Florida 32257
Office: (904) 329-7180

PROJECT: I-75 AT US 41 SIGNAL POLES
CLIENT: OSIRIS 9 CONSULTING, LLC
PROJECT NO.: 364-13-24-03
PROJECT LOCATION: COLUMBIA COUNTY, FLORIDA
BORING NO.: OSP-4
DRILLER: W. CHOMAT
DEPTH TO WATER (FEET): INITIAL: ▽ >9.0 **24 HR:** ▽ 13.5

HAMMER TYPE: AUTOMATIC
STATION: 532+72
OFFSET: 64 FEET RIGHT
ELEVATION (FEET): 66.3
DATE: 02/27/2025
FLUID LOSS: NONE
CASING DEPTH (FEET):

DEPTH (METERS)	DEPTH (FEET)	SAMPLE	SYMBOL	DESCRIPTION	USCS	TEST RESULTS	Wc (%)	N
0	0			MEDIUM DENSE DARK GRAY SILTY FINE SAND WITH ORGANICS	SM	ORG%= 4.2	14 7	-- 9
	2			MEDIUM DENSE GRAY FINE SAND	SP-SM	-200%=10	6	9
1	4			LOOSE GRAY FINE SAND	SP-SM		10 18	7 7
	6			LOOSE GRAY SILTY FINE SAND	SM		15	8
2	8			MEDIUM DENSE GRAY AND ORANGE CLAYEY FINE SAND	SC	-200%=22 LL=21 PI=11	19 15 17 16	10 13 15 19
3	10							
	12							
4	14						16	18

Wc (%) scale: 10, 20, 30, 40, 60
N-Value scale: 10, 20, 30, 40, 60, 80

This information pertains only to this boring and should not be interpreted as being indicitive of the site.

NOTES: N/M MEANS NOT MEASURED
N/A MEANS NOT AVAILABLE

ENVIRONMENTAL & GEOTECHNICAL SPECIALISTS, INC.

3772 Kori Road
Jacksonville, Florida 32257
Office: (904) 329-7180

PROJECT: I-75 AT US 41 SIGNAL POLES
CLIENT: OSIRIS 9 CONSULTING, LLC
PROJECT NO.: 364-13-24-03
PROJECT LOCATION: COLUMBIA COUNTY, FLORIDA
BORING NO.: OSP-4
DRILLER: W. CHOMAT
DEPTH TO WATER (FEET): INITIAL: ▽ >9.0 **24 HR:** ▽ 13.5

HAMMER TYPE: AUTOMATIC
STATION: 532+72
OFFSET: 64 FEET RIGHT
ELEVATION (FEET): 66.3
DATE: 02/27/2025
FLUID LOSS: NONE
CASING DEPTH (FEET):

DEPTH (METERS)	DEPTH (FEET)	SAMPLE	SYMBOL	DESCRIPTION	USCS	TEST RESULTS	Wc (%)	N	N-Value
5	16						29	12	
	18					-200%=82 LL=115 PI=69	43	8	
6	20						40	11	
	22			STIFF GRAY AND ORANGE HIGHLY PLASTIC SILT WITH SAND	MH		39	10	
7	24								
	26						35	7	
8									
	28						31	9	

Wc (%): 10 20 30 40 60
N-Value: 10 20 30 40 60 80

NOTES: N/M MEANS NOT MEASURED
N/A MEANS NOT AVAILABLE

This information pertains only to this boring and should not be interpreted as being indicitive of the site.

ENVIRONMENTAL & GEOTECHNICAL SPECIALISTS, INC.

3772 Kori Road
Jacksonville, Florida 32257
Office: (904) 329-7180

PROJECT: I-75 AT US 41 SIGNAL POLES
CLIENT: OSIRIS 9 CONSULTING, LLC
PROJECT NO.: 364-13-24-03
PROJECT LOCATION: COLUMBIA COUNTY, FLORIDA
BORING NO.: OSP-4
DRILLER: W. CHOMAT
DEPTH TO WATER (FEET): INITIAL: ▽ >9.0 **24 HR:** ▽ 13.5

HAMMER TYPE: AUTOMATIC
STATION: 532+72
OFFSET: 64 FEET RIGHT
ELEVATION (FEET): 66.3
DATE: 02/27/2025
FLUID LOSS: NONE
CASING DEPTH (FEET):

DEPTH (METERS)	DEPTH (FEET)	SAMPLE	SYMBOL	DESCRIPTION	USCS	TEST RESULTS	Wc (%)	N	N-Value
9	30						10 20 30 40 60		10 20 30 40 60 80
10	32								
11	34								
12	36								
13	38								
	40								
	42								

NOTES: N/M MEANS NOT MEASURED
N/A MEANS NOT AVAILABLE

This information pertains only to this boring and should not be interpreted as being indicitive of the site.

ENVIRONMENTAL & GEOTECHNICAL SPECIALISTS, INC.
3772 Kori Road
Jacksonville, Florida 32257
Office: (904) 329-7180

PROJECT: I-75 AT US 41 SIGNAL POLES
CLIENT: OSIRIS 9 CONSULTING, LLC
PROJECT NO.: 364-13-24-03
PROJECT LOCATION: COLUMBIA COUNTY, FLORIDA
BORING NO.: OSP-5
DRILLER: W. CHOMAT
DEPTH TO WATER (FEET): INITIAL: ▽ >9.0 **24 HR:** ▽ 17.5

HAMMER TYPE: AUTOMATIC
STATION: 539+63
OFFSET: 123 FEET LEFT
ELEVATION (FEET): 70.1
DATE: 02/26/2025
FLUID LOSS: NONE
CASING DEPTH (FEET):

DEPTH (METERS)	DEPTH (FEET)	SAMPLE	SYMBOL	DESCRIPTION	USCS	TEST RESULTS	Wc (%)	N
0	0			MEDIUM DENSE DARK GRAY SILTY FINE SAND WITH ORGANICS	SM	ORG%= 4.2	30	--
				MEDIUM DENSE BROWN SILTY FINE SAND	SM		12	9
	2			MEDIUM DENSE ORANGE CLAYEY FINE SAND	SC	-200%=29 LL=31 PI=12	17	9
1							18	9
	4			LOOSE ORANGE CLAYEY FINE SAND	SC		18	8
	6						18	8
2				MEDIUM DENSE ORANGE CLAYEY FINE SAND	SC	-200%=31	22	9
	8						22	14
3	10						22	12
				LOOSE ORANGE CLAYEY FINE SAND	SC		23	8
	12							
4				FIRM BROWN AND GRAY HIGHLY PLASTIC SANDY SILT	MH	-200%=70 LL=115 PI=69	85	6
	14							

Wc (%) scale: 10, 20, 30, 40, 60
N-Value scale: 10, 20, 30, 40, 60, 80

NOTES: N/M MEANS NOT MEASURED
N/A MEANS NOT AVAILABLE

This information pertains only to this boring and should not be interpreted as being indicitive of the site.

ENVIRONMENTAL & GEOTECHNICAL SPECIALISTS, INC.

3772 Kori Road
Jacksonville, Florida 32257
Office: (904) 329-7180

PROJECT: I-75 AT US 41 SIGNAL POLES
CLIENT: OSIRIS 9 CONSULTING, LLC
PROJECT NO.: 364-13-24-03
PROJECT LOCATION: COLUMBIA COUNTY, FLORIDA
BORING NO.: OSP-5
DRILLER: W. CHOMAT
DEPTH TO WATER (FEET): INITIAL: ▽ >9.0 **24 HR:** ▽ 17.5

HAMMER TYPE: AUTOMATIC
STATION: 539+63
OFFSET: 123 FEET LEFT
ELEVATION (FEET): 70.1
DATE: 02/26/2025
FLUID LOSS: NONE
CASING DEPTH (FEET):

This information pertains only to this boring and should not be interpreted as being indicitive of the site.

DEPTH (METERS)	DEPTH (FEET)	SAMPLE	SYMBOL	DESCRIPTION	USCS	TEST RESULTS	Wc (%)	N	N-Value
5	16			MEDIUM DENSE GRAY SILTY FINE SAND	SM		22	12	
	18						33	7	
6	20			LOOSE GRAY SILTY FINE SAND	SM				
	22						25	7	
7	24			LOOSE GRAY SILTY FINE SAND	SM	-200%=13	23	5	
	26						29	3	
8	28			HIGHLY WEATHERED WHITE	--		--	4	

Wc (%) axis: 10, 20, 30, 40, 60
N-Value axis: 10, 20, 30, 40, 60, 80

NOTES: N/M MEANS NOT MEASURED
N/A MEANS NOT AVAILABLE

ENVIRONMENTAL & GEOTECHNICAL SPECIALISTS, INC.

3772 Kori Road
Jacksonville, Florida 32257
Office: (904) 329-7180

PROJECT: I-75 AT US 41 SIGNAL POLES
CLIENT: OSIRIS 9 CONSULTING, LLC
PROJECT NO.: 364-13-24-03
PROJECT LOCATION: COLUMBIA COUNTY, FLORIDA
BORING NO.: OSP-5
DRILLER: W. CHOMAT
DEPTH TO WATER (FEET): INITIAL: ▽ >9.0 **24 HR:** ▽ 17.5

HAMMER TYPE: AUTOMATIC
STATION: 539+63
OFFSET: 123 FEET LEFT
ELEVATION (FEET): 70.1
DATE: 02/26/2025
FLUID LOSS: NONE
CASING DEPTH (FEET):

DEPTH (METERS)	DEPTH (FEET)	SAMPLE	SYMBOL	DESCRIPTION	USCS	TEST RESULTS	Wc (%)	Wc (%) 10 20 30 40 60	N	N-Value 10 20 30 40 60 80
9	30			LIMESTONE						
	32									
10	34									
	36									
11	38									
	40									
12	42									
13										

NOTES: N/M MEANS NOT MEASURED
N/A MEANS NOT AVAILABLE

This information pertains only to this boring and should not be interpreted as being indicitive of the site.

ENVIRONMENTAL & GEOTECHNICAL SPECIALISTS, INC.
3772 Kori Road
Jacksonville, Florida 32257
Office: (904) 329-7180

PROJECT: I-75 AT US 41 SIGNAL POLES
CLIENT: OSIRIS 9 CONSULTING, LLC
PROJECT NO.: 364-13-24-03
PROJECT LOCATION: COLUMBIA COUNTY, FLORIDA
BORING NO.: OSP-6
DRILLER: W. CHOMAT
DEPTH TO WATER (FEET): INITIAL: ▽ >7.5 **24 HR:** ▽ 15.5

HAMMER TYPE: AUTOMATIC
STATION: 539+83
OFFSET: 36 FEET RIGHT
ELEVATION (FEET): 70.7
DATE: 02/27/2025
FLUID LOSS: NONE
CASING DEPTH (FEET):

DEPTH (METERS)	DEPTH (FEET)	DESCRIPTION	USCS	TEST RESULTS	Wc (%)	N
0	0	LOOSE GRAY CLAYEY FINE SAND	SC		17	--
	2	STIFF GRAY AND ORANGE HIGHLY PLASTIC CLAY WITH SAND	CH	-200%=76 LL=111 PI=81	52	8
					79	8
1	4	VERY STIFF GRAY AND ORANGE HIGHLY PLASTIC CLAY WITH SAND	CH		87	13
	6	MEDIUM DENSE GRAY PLASTIC CLAYEY SAND	SC	-200%=39	59	13
					56	13
2	8				46	17
					44	18
3	10	LOOSE GRAY PLASTIC CLAYEY SAND	SC	-200%=36	40	6
					43	7
4	12				50	6
	14					

Wc (%) axis: 10, 20, 30, 40, 60
N-Value axis: 10, 20, 30, 40, 60, 80

NOTES: N/M MEANS NOT MEASURED
N/A MEANS NOT AVAILABLE

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3772 Kori Road
Jacksonville, Florida 32257
Office: (904) 329-7180

PROJECT: I-75 AT US 41 SIGNAL POLES
CLIENT: OSIRIS 9 CONSULTING, LLC
PROJECT NO.: 364-13-24-03
PROJECT LOCATION: COLUMBIA COUNTY, FLORIDA
BORING NO.: OSP-6
DRILLER: W. CHOMAT
DEPTH TO WATER (FEET): INITIAL: ▽ >7.5 **24 HR:** ▽ 15.5

HAMMER TYPE: AUTOMATIC
STATION: 539+83
OFFSET: 36 FEET RIGHT
ELEVATION (FEET): 70.7
DATE: 02/27/2025
FLUID LOSS: NONE
CASING DEPTH (FEET):

DEPTH (METERS)	DEPTH (FEET)	SAMPLE	SYMBOL	DESCRIPTION	USCS	TEST RESULTS	Wc (%)	N	N-Value
5	16			MEDIUM DENSE GRAY SILTY FINE SAND	SM		17	16	
	18						27	12	
6	20			LOOSE GRAY SILTY FINE SAND	SM		29	8	
	22								
7	24			MEDIUM DENSE GRAY PLASTIC CLAYEY SAND	SC		26	13	
8	26						36	11	
	28			FIRM GRAY	CH	-200%=83	31	6	

Wc (%) axis: 10, 20, 30, 40, 60
N-Value axis: 10, 20, 30, 40, 60, 80

This information pertains only to this boring and should not be interpreted as being indicitive of the site.

NOTES: N/M MEANS NOT MEASURED
N/A MEANS NOT AVAILABLE

ENVIRONMENTAL & GEOTECHNICAL SPECIALISTS, INC.

3772 Kori Road
Jacksonville, Florida 32257
Office: (904) 329-7180

PROJECT: I-75 AT US 41 SIGNAL POLES
CLIENT: OSIRIS 9 CONSULTING, LLC
PROJECT NO.: 364-13-24-03
PROJECT LOCATION: COLUMBIA COUNTY, FLORIDA
BORING NO.: OSP-6
DRILLER: W. CHOMAT
DEPTH TO WATER (FEET): INITIAL: ▽ >7.5 **24 HR:** ▼ 15.5

HAMMER TYPE: AUTOMATIC
STATION: 539+83
OFFSET: 36 FEET RIGHT
ELEVATION (FEET): 70.7
DATE: 02/27/2025
FLUID LOSS: NONE
CASING DEPTH (FEET):

DEPTH (METERS)	DEPTH (FEET)	SAMPLE	SYMBOL	DESCRIPTION	USCS	TEST RESULTS	Wc (%)	Wc (%) 10 20 30 40 60	N	N-Value 10 20 30 40 60 80
9	30			HIGHLY PLASTIC CLAY WITH SAND						
10	32									
11	34									
12	36									
13	38									
	40									
	42									

NOTES: N/M MEANS NOT MEASURED
N/A MEANS NOT AVAILABLE

This information pertains only to this boring and should not be interpreted as being indicitive of the site.

ENVIRONMENTAL & GEOTECHNICAL SPECIALISTS, INC.
3772 Kori Road
Jacksonville, Florida 32257
Office: (904) 329-7180

PROJECT: I-75 AT US 41 SIGNAL POLES
CLIENT: OSIRIS 9 CONSULTING, LLC
PROJECT NO.: 364-13-24-03
PROJECT LOCATION: COLUMBIA COUNTY, FLORIDA
BORING NO.: OSP-7
DRILLER: W. CHOMAT
DEPTH TO WATER (FEET): INITIAL: ▽ 4.5 **24 HR:** ▽ 19.5

HAMMER TYPE: AUTOMATIC
STATION: 541+30
OFFSET: 43 FEET RIGHT
ELEVATION (FEET): 72.0
DATE: 02/27/2025
FLUID LOSS: NONE
CASING DEPTH (FEET):

DEPTH (METERS)	DEPTH (FEET)	SAMPLE	SYMBOL	DESCRIPTION	USCS	TEST RESULTS	Wc (%)	N	N-Value
0	0			MEDIUM DENSE GRAY SILTY FINE SAND	SM	-200%=20	20	--	
							10	9	
	2						23	9	
1							11	9	
	4			MEDIUM DENSE GRAY SILTY FINE SAND			17	9	
							27	9	
	6								
2							24	9	
	8						25	12	
3						-200%=30 LL=39 PI=25	28	13	
	10			MEDIUM DENSE GRAY CLAYEY FINE SAND	SC				
							19	13	
	12								
4							16	16	
	14								

Wc (%) axis: 10, 20, 30, 40, 60
N-Value axis: 10, 20, 30, 40, 60, 80

This information pertains only to this boring and should not be interpreted as being indicitive of the site.

NOTES: N/M MEANS NOT MEASURED
N/A MEANS NOT AVAILABLE

ENVIRONMENTAL & GEOTECHNICAL SPECIALISTS, INC.
3772 Kori Road
Jacksonville, Florida 32257
Office: (904) 329-7180

PROJECT: I-75 AT US 41 SIGNAL POLES
CLIENT: OSIRIS 9 CONSULTING, LLC
PROJECT NO.: 364-13-24-03
PROJECT LOCATION: COLUMBIA COUNTY, FLORIDA
BORING NO.: OSP-7
DRILLER: W. CHOMAT
DEPTH TO WATER (FEET): INITIAL: ▽ 4.5 **24 HR:** ▽ 19.5

HAMMER TYPE: AUTOMATIC
STATION: 541+30
OFFSET: 43 FEET RIGHT
ELEVATION (FEET): 72.0
DATE: 02/27/2025
FLUID LOSS: NONE
CASING DEPTH (FEET):

DEPTH (METERS)	DEPTH (FEET)	SAMPLE	SYMBOL	DESCRIPTION	USCS	TEST RESULTS	Wc (%)	N	N-Value
5	16			LOOSE GRAY CLAYEY FINE SAND	SC		27	8	
	18			MEDIUM DENSE GRAY CLAYEY FINE SAND	SC		25	12	
6	20			MEDIUM DENSE GRAY HIGHLY PLASTIC CLAYEY SAND	SC	-200%=36 LL=75 PI=51	39	10	
	22								
7	24						41	10	
	26			LOOSE GRAY HIGHLY PLASTIC CLAYEY SAND	SC		39	7	
8	28			MEDIUM DENSE GRAY	SC	-200%=36	36	11	

Wc (%) axis: 10, 20, 30, 40, 60
N-Value axis: 10, 20, 30, 40, 60, 80

NOTES: N/M MEANS NOT MEASURED
N/A MEANS NOT AVAILABLE

This information pertains only to this boring and should not be interpreted as being indicitive of the site.

ENVIRONMENTAL & GEOTECHNICAL SPECIALISTS, INC.

3772 Kori Road
Jacksonville, Florida 32257
Office: (904) 329-7180

PROJECT: I-75 AT US 41 SIGNAL POLES
CLIENT: OSIRIS 9 CONSULTING, LLC
PROJECT NO.: 364-13-24-03
PROJECT LOCATION: COLUMBIA COUNTY, FLORIDA
BORING NO.: OSP-7
DRILLER: W. CHOMAT
DEPTH TO WATER (FEET): INITIAL: ▽ 4.5 **24 HR:** ▽ 19.5

HAMMER TYPE: AUTOMATIC
STATION: 541+30
OFFSET: 43 FEET RIGHT
ELEVATION (FEET): 72.0
DATE: 02/27/2025
FLUID LOSS: NONE
CASING DEPTH (FEET):

DEPTH (METERS)	DEPTH (FEET)	SAMPLE	SYMBOL	DESCRIPTION	USCS	TEST RESULTS	Wc (%)	Wc (%) 10 20 30 40 60	N	N-Value 10 20 30 40 60 80
9	30			HIGHLY PLASTIC CLAYEY SAND						
	32									
10	34									
	36									
11	38									
	40									
12	42									
13										

NOTES: N/M MEANS NOT MEASURED
N/A MEANS NOT AVAILABLE

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ENVIRONMENTAL & GEOTECHNICAL SPECIALISTS, INC.

3772 Kori Road
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Office: (904) 329-7180

PROJECT: I-75 AT US 41 SIGNAL POLES
CLIENT: OSIRIS 9 CONSULTING, LLC
PROJECT NO.: 364-13-24-03
PROJECT LOCATION: COLUMBIA COUNTY, FLORIDA
BORING NO.: OSP-8
DRILLER: W. CHOMAT
DEPTH TO WATER (FEET): INITIAL: ▽ >9.0 **24 HR:** ▽ 15.0

HAMMER TYPE: AUTOMATIC
STATION: 541+36
OFFSET: 106 FEET LEFT
ELEVATION (FEET): 70.6
DATE: 02/28/2025
FLUID LOSS: NONE
CASING DEPTH (FEET):

DEPTH (METERS)	DEPTH (FEET)	SAMPLE	SYMBOL	DESCRIPTION	USCS	TEST RESULTS	Wc (%)	N
0	0			MEDIUM DENSE DARK GRAY SILTY FINE SAND WITH ORGANICS	SM	ORG%= 3.1	5	--
				MEDIUM DENSE GRAY SILTY FINE SAND	SM		10	9
	2			LOOSE GRAY SILTY FINE SAND	SM		14	8
1				MEDIUM DENSE GRAY CLAYEY FINE SAND	SC	-200%=29 LL=32 PI=17	21	9
	4						25	9
				LOOSE GRAY CLAYEY FINE SAND	SC		23	7
	6			MEDIUM DENSE GRAY CLAYEY FINE SAND	SC		22	12
2	8			MEDIUM DENSE ORANGE CLAYEY FINE SAND			23	11
3	10			LOOSE ORANGE CLAYEY FINE SAND	SC		31	8
	12						35	6
4	14			MEDIUM DENSE GRAY AND ORANGE PLASTIC CLAYEY SAND	SC	-200%=38 LL=54 PI=32	30	10

Wc (%) axis: 10, 20, 30, 40, 60
N-Value axis: 10, 20, 30, 40, 60, 80

NOTES: N/M MEANS NOT MEASURED
N/A MEANS NOT AVAILABLE

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3772 Kori Road
Jacksonville, Florida 32257
Office: (904) 329-7180

PROJECT: I-75 AT US 41 SIGNAL POLES
CLIENT: OSIRIS 9 CONSULTING, LLC
PROJECT NO.: 364-13-24-03
PROJECT LOCATION: COLUMBIA COUNTY, FLORIDA
BORING NO.: OSP-8
DRILLER: W. CHOMAT
DEPTH TO WATER (FEET): INITIAL: ▽ >9.0 **24 HR:** ▽ 15.0

HAMMER TYPE: AUTOMATIC
STATION: 541+36
OFFSET: 106 FEET LEFT
ELEVATION (FEET): 70.6
DATE: 02/28/2025
FLUID LOSS: NONE
CASING DEPTH (FEET):

DEPTH (METERS)	DEPTH (FEET)	SAMPLE	SYMBOL	DESCRIPTION	USCS	TEST RESULTS	Wc (%)	N	N-Value
5	16			MEDIUM DENSE GRAY AND ORANGE PLASTIC CLAYEY SAND	SC		28	9	
6	18			FIRM GRAY HIGHLY PLASTIC CLAY	CH		74	4	
	20								
	22			STIFF GRAY HIGHLY PLASTIC CLAY	CH		58	9	
7	24			LOOSE GRAY SILTY FINE SAND	SM		29	7	
8	26			LOOSE GRAY CLAYEY FINE SAND	SC	-200%=15	33	7	
	28						33	7	

Wc (%) axis: 10, 20, 30, 40, 60
N-Value axis: 10, 20, 30, 40, 60, 80

This information pertains only to this boring and should not be interpreted as being indicitive of the site.

NOTES: N/M MEANS NOT MEASURED
N/A MEANS NOT AVAILABLE

ENVIRONMENTAL & GEOTECHNICAL SPECIALISTS, INC.

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Jacksonville, Florida 32257
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PROJECT: I-75 AT US 41 SIGNAL POLES
CLIENT: OSIRIS 9 CONSULTING, LLC
PROJECT NO.: 364-13-24-03
PROJECT LOCATION: COLUMBIA COUNTY, FLORIDA
BORING NO.: OSP-8
DRILLER: W. CHOMAT
DEPTH TO WATER (FEET): INITIAL: ▽ >9.0 **24 HR:** ▽ 15.0

HAMMER TYPE: AUTOMATIC
STATION: 541+36
OFFSET: 106 FEET LEFT
ELEVATION (FEET): 70.6
DATE: 02/28/2025
FLUID LOSS: NONE
CASING DEPTH (FEET):

DEPTH (METERS)	DEPTH (FEET)	SAMPLE	SYMBOL	DESCRIPTION	USCS	TEST RESULTS	Wc (%)	N	N-Value
9	30						10 20 30 40 60		10 20 30 40 60 80
10	32								
11	34								
12	36								
13	38								
	40								
	42								

NOTES: N/M MEANS NOT MEASURED
N/A MEANS NOT AVAILABLE

This information pertains only to this boring and should not be interpreted as being indicitive of the site.

APPENDIX C

SOIL CLASSIFICATION DATA

SOIL CLASSIFICATION DATA

Project: I-75 AT US 41 SIGNAL POLES

Client: OSIRIS 9 CONSULTING, LLC **Project No.: 364-13-24-03**

Boring: OSP-1 **Location: COLUMBIA COUNTY, FLORIDA**

DEPTH (FEET)	Wc (%)	-4 (%)	-10 (%)	-20 (%)	-40 (%)	-60 (%)	-100 (%)	-200 (%)	LL	PI	Org. (%)	N Value	USCS	Description
0.0-0.5	11										3.5	--	SM	LOOSE DARK GRAY SILTY FINE SAND WITH ORGANICS
1.0-1.5	6	100	99	98	94	73	36	10				8	SP-SM	LOOSE GRAY FINE SAND
2.0-2.5	6											8	SP-SM	LOOSE GRAY FINE SAND
3.0-3.5	5											5	SP-SM	LOOSE GRAY FINE SAND
4.0-4.5	4											5	SP-SM	LOOSE GRAY FINE SAND
5.0-5.5	4											5	SP-SM	LOOSE GRAY FINE SAND
6.0-7.5	7											5	SP-SM	LOOSE GRAY FINE SAND
7.5-9.0	13	100	100	99	96	84	47	25	26	14		8	SC	LOOSE GRAY AND ORANGE CLAYEY FINE SAND
9.0-10.5	15											14	SC	MEDIUM DENSE GRAY AND ORANGE CLAYEY FINE SAND
10.5-12.0	17											19	SC	MEDIUM DENSE GRAY AND ORANGE CLAYEY FINE SAND
12.5-14.0	18											22	SC	MEDIUM DENSE GRAY CLAYEY FINE SAND
15.0-16.5	15											21	SC	MEDIUM DENSE GRAY CLAYEY FINE SAND
17.5-19.0	18	100	100	100	99	80	45	23				17	SC	MEDIUM DENSE GRAY AND ORANGE

SOIL CLASSIFICATION DATA

Project: I-75 AT US 41 SIGNAL POLES

Client: OSIRIS 9 CONSULTING, LLC **Project No.: 364-13-24-03**

Boring: OSP-1 **Location: COLUMBIA COUNTY, FLORIDA**

DEPTH (FEET)	Wc (%)	-4 (%)	-10 (%)	-20 (%)	-40 (%)	-60 (%)	-100 (%)	-200 (%)	LL	PI	Org. (%)	N Value	USCS	Description
														CLAYEY FINE SAND
20.0-21.5	28											13	SC	MEDIUM DENSE GRAY AND ORANGE CLAYEY FINE SAND
22.5-24.0	30											12	SC	MEDIUM DENSE GRAY AND ORANGE CLAYEY FINE SAND
25.0-26.5	33											10	SC	MEDIUM DENSE GRAY AND ORANGE CLAYEY FINE SAND
28.0-30.0	35	100	100	100	99	97	42	16				10	SC	MEDIUM DENSE GRAY AND ORANGE CLAYEY FINE SAND

SOIL CLASSIFICATION DATA

Project: I-75 AT US 41 SIGNAL POLES

Client: OSIRIS 9 CONSULTING, LLC **Project No.: 364-13-24-03**

Boring: OSP-2 **Location: COLUMBIA COUNTY, FLORIDA**

DEPTH (FEET)	Wc (%)	-4 (%)	-10 (%)	-20 (%)	-40 (%)	-60 (%)	-100 (%)	-200 (%)	LL	PI	Org. (%)	N Value	USCS	Description
0.0-0.5	19										3.7	--	SM	MEDIUM DENSE DARK GRAY SILTY FINE SAND WITH ORGANICS
1.0-1.5	12											9	SM	MEDIUM DENSE GRAY SILTY FINE SAND
2.0-2.5	12											9	SM	MEDIUM DENSE GRAY SILTY FINE SAND
3.0-3.5	14	100	100	99	96	85	52	27	23	11		13	SC	MEDIUM DENSE ORANGE CLAYEY FINE SAND
4.0-4.5	22											10	SC	MEDIUM DENSE ORANGE CLAYEY FINE SAND
5.0-5.5	19											10	SC	MEDIUM DENSE ORANGE CLAYEY FINE SAND
6.0-7.5	24	100	100	100	98	93	68	42	45	26		14	SC	MEDIUM DENSE GRAY AND ORANGE PLASTIC CLAYEY SAND
7.5-9.0	19											15	SC	MEDIUM DENSE GRAY AND ORANGE PLASTIC CLAYEY SAND
9.0-10.5	31	100	100	100	99	97	65	45				14	SC	MEDIUM DENSE GRAY AND ORANGE PLASTIC CLAYEY SAND
10.5-12.0	23											13	SC	MEDIUM DENSE GRAY AND ORANGE PLASTIC CLAYEY SAND
12.5-14.0	26											11	SC	MEDIUM DENSE GRAY AND ORANGE PLASTIC CLAYEY SAND
15.0-16.5	27											11	SC	MEDIUM DENSE GRAY AND ORANGE PLASTIC CLAYEY SAND
17.5-19.0	25	100	100	100	99	89	48	26				13	SC	MEDIUM DENSE GRAY

SOIL CLASSIFICATION DATA

Project: I-75 AT US 41 SIGNAL POLES

Client: OSIRIS 9 CONSULTING, LLC **Project No.: 364-13-24-03**

Boring: OSP-2 **Location: COLUMBIA COUNTY, FLORIDA**

DEPTH (FEET)	Wc (%)	-4 (%)	-10 (%)	-20 (%)	-40 (%)	-60 (%)	-100 (%)	-200 (%)	LL	PI	Org. (%)	N Value	USCS	Description
														CLAYEY FINE SAND
20.0-21.5	24											14	SC	MEDIUM DENSE GRAY CLAYEY FINE SAND
22.5-24.0	30											10	SC	MEDIUM DENSE GRAY PLASTIC CLAYEY SAND
25.0-26.5	35											10	SC	MEDIUM DENSE GRAY PLASTIC CLAYEY SAND
28.0-30.0	38											11	SC	MEDIUM DENSE GRAY PLASTIC CLAYEY SAND

SOIL CLASSIFICATION DATA

Project: I-75 AT US 41 SIGNAL POLES

Client: OSIRIS 9 CONSULTING, LLC **Project No.: 364-13-24-03**

Boring: OSP-3 **Location: COLUMBIA COUNTY, FLORIDA**

DEPTH (FEET)	Wc (%)	-4 (%)	-10 (%)	-20 (%)	-40 (%)	-60 (%)	-100 (%)	-200 (%)	LL	PI	Org. (%)	N Value	USCS	Description
0.0-0.5	6											--	SM	LOOSE GRAY SILTY FINE SAND
1.0-1.5	4											7	SM	LOOSE GRAY SILTY FINE SAND
2.0-2.5	12											7	SM	LOOSE GRAY SILTY FINE SAND
3.0-3.5	20	100	100	100	98	93	58	38	46	30		8	SC	LOOSE ORANGE AND GRAY PLASTIC CLAYEY SAND
4.0-4.5	21											9	SC	MEDIUM DENSE ORANGE AND GRAY PLASTIC CLAYEY SAND
5.0-5.5	21											9	SC	MEDIUM DENSE ORANGE AND GRAY PLASTIC CLAYEY SAND
6.0-7.5	18											9	SC	MEDIUM DENSE ORANGE AND GRAY PLASTIC CLAYEY SAND
7.5-9.0	27											10	SC	MEDIUM DENSE ORANGE AND GRAY PLASTIC CLAYEY SAND
9.0-10.5	32											9	SC	MEDIUM DENSE ORANGE AND GRAY PLASTIC CLAYEY SAND
10.5-12.0	34	100	100	100	100	94	59	36	64	45		9	SC	MEDIUM DENSE ORANGE AND GRAY HIGHLY PLASTIC CLAYEY SAND
12.5-14.0	27											6	SC	LOOSE ORANGE AND GRAY HIGHLY PLASTIC CLAYEY SAND
15.0-16.5	30											7	SC	LOOSE ORANGE AND GRAY HIGHLY PLASTIC CLAYEY SAND
17.5-19.0	23											8	SC	LOOSE GRAY

SOIL CLASSIFICATION DATA

Project: I-75 AT US 41 SIGNAL POLES

Client: OSIRIS 9 CONSULTING, LLC **Project No.: 364-13-24-03**

Boring: OSP-3 **Location: COLUMBIA COUNTY, FLORIDA**

DEPTH (FEET)	Wc (%)	-4 (%)	-10 (%)	-20 (%)	-40 (%)	-60 (%)	-100 (%)	-200 (%)	LL	PI	Org. (%)	N Value	USCS	Description
														CLAYEY FINE SAND
20.0-21.5	20											8	SC	LOOSE GRAY CLAYEY FINE SAND
22.5-24.0	27											7	SC	LOOSE GRAY CLAYEY FINE SAND
25.0-26.5	78	100	100	100	100	99	97	86				4	CH	FIRM GRAY AND ORANGE HIGHLY PLASTIC CLAY
28.0-30.0	68											5	CH	FIRM GRAY AND ORANGE HIGHLY PLASTIC CLAY

SOIL CLASSIFICATION DATA

Project: I-75 AT US 41 SIGNAL POLES

Client: OSIRIS 9 CONSULTING, LLC **Project No.: 364-13-24-03**

Boring: OSP-4 **Location: COLUMBIA COUNTY, FLORIDA**

DEPTH (FEET)	Wc (%)	-4 (%)	-10 (%)	-20 (%)	-40 (%)	-60 (%)	-100 (%)	-200 (%)	LL	PI	Org. (%)	N Value	USCS	Description
0.0-0.5	14										4.2	--	SM	MEDIUM DENSE DARK GRAY SILTY FINE SAND WITH ORGANICS
1.0-1.5	7											9	SM	MEDIUM DENSE GRAY SILTY FINE SAND
2.0-2.5	6	100	100	100	95	78	39	10				9	SP-SM	MEDIUM DENSE GRAY FINE SAND
3.0-3.5	10											7	SP-SM	LOOSE GRAY FINE SAND
4.0-4.5	18											7	SP-SM	LOOSE GRAY FINE SAND
5.0-5.5	15											8	SM	LOOSE GRAY SILTY FINE SAND
6.0-7.5	19											10	SC	MEDIUM DENSE GRAY AND ORANGE CLAYEY FINE SAND
7.5-9.0	15	100	100	100	95	79	44	22	21	11		13	SC	MEDIUM DENSE GRAY AND ORANGE CLAYEY FINE SAND
9.0-10.5	17											15	SC	MEDIUM DENSE GRAY AND ORANGE CLAYEY FINE SAND
10.5-12.0	16											19	SC	MEDIUM DENSE GRAY AND ORANGE CLAYEY FINE SAND
12.5-14.0	16											18	SC	MEDIUM DENSE GRAY AND ORANGE CLAYEY FINE SAND
15.0-16.5	29											12	MH	STIFF GRAY AND ORANGE HIGHLY PLASTIC SILT WITH SAND
17.5-19.0	43	100	100	100	99	98	95	82	115	69		8	MH	STIFF GRAY AND ORANGE

SOIL CLASSIFICATION DATA

Project: I-75 AT US 41 SIGNAL POLES

Client: OSIRIS 9 CONSULTING, LLC **Project No.: 364-13-24-03**

Boring: OSP-4 **Location: COLUMBIA COUNTY, FLORIDA**

DEPTH (FEET)	Wc (%)	-4 (%)	-10 (%)	-20 (%)	-40 (%)	-60 (%)	-100 (%)	-200 (%)	LL	PI	Org. (%)	N Value	USCS	Description
														HIGHLY PLASTIC SILT WITH SAND
20.0-21.5	40											11	MH	STIFF GRAY AND ORANGE HIGHLY PLASTIC SILT WITH SAND
22.5-24.0	39											10	MH	STIFF GRAY AND ORANGE HIGHLY PLASTIC SILT WITH SAND
25.0-26.5	35											7	MH	STIFF GRAY AND ORANGE HIGHLY PLASTIC SILT WITH SAND
28.0-30.0	31											9	MH	STIFF GRAY AND ORANGE HIGHLY PLASTIC SILT WITH SAND

SOIL CLASSIFICATION DATA

Project: I-75 AT US 41 SIGNAL POLES

Client: OSIRIS 9 CONSULTING, LLC **Project No.: 364-13-24-03**

Boring: OSP-5 **Location: COLUMBIA COUNTY, FLORIDA**

DEPTH (FEET)	Wc (%)	-4 (%)	-10 (%)	-20 (%)	-40 (%)	-60 (%)	-100 (%)	-200 (%)	LL	PI	Org. (%)	N Value	USCS	Description
0.0-0.5	30										4.2	--	SM	MEDIUM DENSE DARK GRAY SILTY FINE SAND WITH ORGANICS
1.0-1.5	12											9	SM	MEDIUM DENSE BROWN SILTY FINE SAND
2.0-2.5	17	100	100	100	98	85	52	29	31	12		9	SC	MEDIUM DENSE ORANGE CLAYEY FINE SAND
3.0-3.5	18											9	SC	MEDIUM DENSE ORANGE CLAYEY FINE SAND
4.0-4.5	18											8	SC	LOOSE ORANGE CLAYEY FINE SAND
5.0-5.5	18											8	SC	LOOSE ORANGE CLAYEY FINE SAND
6.0-7.5	22	100	100	100	100	95	70	31				9	SC	MEDIUM DENSE ORANGE CLAYEY FINE SAND
7.5-9.0	22											14	SC	MEDIUM DENSE ORANGE CLAYEY FINE SAND
9.0-10.5	22											12	SC	MEDIUM DENSE ORANGE CLAYEY FINE SAND
10.5-12.0	23											8	SC	LOOSE ORANGE CLAYEY FINE SAND
12.5-14.0	85	100	100	100	100	100	92	70	115	69		6	MH	FIRM BROWN AND GRAY HIGHLY PLASTIC SANDY SILT
15.0-16.5	22											12	SM	MEDIUM DENSE GRAY SILTY FINE SAND
17.5-19.0	33											7	SM	LOOSE GRAY

SOIL CLASSIFICATION DATA

Project: I-75 AT US 41 SIGNAL POLES

Client: OSIRIS 9 CONSULTING, LLC **Project No.: 364-13-24-03**

Boring: OSP-5 **Location: COLUMBIA COUNTY, FLORIDA**

DEPTH (FEET)	Wc (%)	-4 (%)	-10 (%)	-20 (%)	-40 (%)	-60 (%)	-100 (%)	-200 (%)	LL	PI	Org. (%)	N Value	USCS	Description
														SILTY FINE SAND
20.0-21.5	25											7	SM	LOOSE GRAY SILTY FINE SAND
22.5-24.0	23	100	100	99	97	91	26	13				5	SM	LOOSE GRAY SILTY FINE SAND
25.0-26.5	29											3	SM	LOOSE GRAY SILTY FINE SAND
28.0-30.0	--											4	--	HIGHLY WEATHERED WHITE LIMESTONE

SOIL CLASSIFICATION DATA

Project: I-75 AT US 41 SIGNAL POLES

Client: OSIRIS 9 CONSULTING, LLC **Project No.: 364-13-24-03**

Boring: OSP-6 **Location: COLUMBIA COUNTY, FLORIDA**

DEPTH (FEET)	Wc (%)	-4 (%)	-10 (%)	-20 (%)	-40 (%)	-60 (%)	-100 (%)	-200 (%)	LL	PI	Org. (%)	N Value	USCS	Description
0.0-0.5	17											--	SC	LOOSE GRAY CLAYEY FINE SAND
1.0-1.5	52	100	92	90	88	86	82	76	111	81		8	CH	STIFF GRAY AND ORANGE HIGHLY PLASTIC CLAY WITH SAND
2.0-2.5	79											8	CH	STIFF GRAY AND ORANGE HIGHLY PLASTIC CLAY WITH SAND
3.0-3.5	87											13	CH	VERY STIFF GRAY AND ORANGE HIGHLY PLASTIC CLAY WITH SAND
4.0-4.5	59	97	96	95	94	79	56	39				13	SC	MEDIUM DENSE GRAY PLASTIC CLAYEY SAND
5.0-5.5	56											13	SC	MEDIUM DENSE GRAY PLASTIC CLAYEY SAND
6.0-7.5	46											17	SC	MEDIUM DENSE GRAY PLASTIC CLAYEY SAND
7.5-9.0	44											18	SC	MEDIUM DENSE GRAY PLASTIC CLAYEY SAND
9.0-10.5	40											6	SC	LOOSE GRAY PLASTIC CLAYEY SAND
10.5-12.0	43	100	100	100	98	79	44	36				7	SC	LOOSE GRAY PLASTIC CLAYEY SAND
12.5-14.0	50											6	SC	LOOSE GRAY PLASTIC CLAYEY SAND
15.0-16.5	17											16	SM	MEDIUM DENSE GRAY SILTY FINE SAND
17.5-19.0	27											12	SM	MEDIUM DENSE GRAY

SOIL CLASSIFICATION DATA

Project: I-75 AT US 41 SIGNAL POLES

Client: OSIRIS 9 CONSULTING, LLC **Project No.: 364-13-24-03**

Boring: OSP-6 **Location: COLUMBIA COUNTY, FLORIDA**

DEPTH (FEET)	Wc (%)	-4 (%)	-10 (%)	-20 (%)	-40 (%)	-60 (%)	-100 (%)	-200 (%)	LL	PI	Org. (%)	N Value	USCS	Description
														SILTY FINE SAND
20.0-21.5	29											8	SM	LOOSE GRAY SILTY FINE SAND
22.5-24.0	26											13	SC	MEDIUM DENSE GRAY PLASTIC CLAYEY SAND
25.0-26.5	36											11	SC	MEDIUM DENSE GRAY PLASTIC CLAYEY SAND
28.0-30.0	31	100	100	100	99	98	96	83				6	CH	FIRM GRAY HIGHLY PLASTIC CLAY WITH SAND

SOIL CLASSIFICATION DATA

Project: I-75 AT US 41 SIGNAL POLES

Client: OSIRIS 9 CONSULTING, LLC **Project No.: 364-13-24-03**

Boring: OSP-7 **Location: COLUMBIA COUNTY, FLORIDA**

DEPTH (FEET)	Wc (%)	-4 (%)	-10 (%)	-20 (%)	-40 (%)	-60 (%)	-100 (%)	-200 (%)	LL	PI	Org. (%)	N Value	USCS	Description
0.0-0.5	20											--	SM	MEDIUM DENSE GRAY SILTY FINE SAND
1.0-1.5	10	100	100	98	94	83	51	20				9	SM	MEDIUM DENSE GRAY SILTY FINE SAND
2.0-2.5	23											9	SM	MEDIUM DENSE GRAY SILTY FINE SAND
3.0-3.5	11											9	SM	MEDIUM DENSE GRAY SILTY FINE SAND
4.0-4.5	17											9	SM	MEDIUM DENSE GRAY SILTY FINE SAND
5.0-5.5	27											9	SM	MEDIUM DENSE GRAY SILTY FINE SAND
6.0-7.5	24											9	SC	MEDIUM DENSE GRAY CLAYEY FINE SAND
7.5-9.0	25											12	SC	MEDIUM DENSE GRAY CLAYEY FINE SAND
9.0-10.5	28	100	100	100	100	100	73	30	39	25		13	SC	MEDIUM DENSE GRAY CLAYEY FINE SAND
10.5-12.0	19											13	SC	MEDIUM DENSE GRAY CLAYEY FINE SAND
12.5-14.0	16											16	SC	MEDIUM DENSE GRAY CLAYEY FINE SAND
15.0-16.5	27											8	SC	LOOSE GRAY CLAYEY FINE SAND
17.5-19.0	25											12	SC	MEDIUM DENSE GRAY

SOIL CLASSIFICATION DATA

Project: I-75 AT US 41 SIGNAL POLES

Client: OSIRIS 9 CONSULTING, LLC **Project No.: 364-13-24-03**

Boring: OSP-7 **Location: COLUMBIA COUNTY, FLORIDA**

DEPTH (FEET)	Wc (%)	-4 (%)	-10 (%)	-20 (%)	-40 (%)	-60 (%)	-100 (%)	-200 (%)	LL	PI	Org. (%)	N Value	USCS	Description
														CLAYEY FINE SAND
20.0-21.5	39	100	100	100	100	95	67	36	75	51		10	SC	MEDIUM DENSE GRAY HIGHLY PLASTIC CLAYEY SAND
22.5-24.0	41											10	SC	MEDIUM DENSE GRAY HIGHLY PLASTIC CLAYEY SAND
25.0-26.5	39											7	SC	LOOSE GRAY HIGHLY PLASTIC CLAYEY SAND
28.0-30.0	36	100	100	100	99	95	52	36				11	SC	MEDIUM DENSE GRAY HIGHLY PLASTIC CLAYEY SAND

SOIL CLASSIFICATION DATA

Project: I-75 AT US 41 SIGNAL POLES

Client: OSIRIS 9 CONSULTING, LLC **Project No.: 364-13-24-03**

Boring: OSP-8 **Location: COLUMBIA COUNTY, FLORIDA**

DEPTH (FEET)	Wc (%)	-4 (%)	-10 (%)	-20 (%)	-40 (%)	-60 (%)	-100 (%)	-200 (%)	LL	PI	Org. (%)	N Value	USCS	Description
0.0-0.5	5										3.1	--	SM	MEDIUM DENSE DARK GRAY SILTY FINE SAND WITH ORGANICS
1.0-1.5	10											9	SM	MEDIUM DENSE GRAY SILTY FINE SAND
2.0-2.5	14											8	SM	LOOSE GRAY SILTY FINE SAND
3.0-3.5	21	100	100	100	99	95	63	29	32	17		9	SC	MEDIUM DENSE GRAY CLAYEY FINE SAND
4.0-4.5	25											9	SC	MEDIUM DENSE GRAY CLAYEY FINE SAND
5.0-5.5	23											7	SC	LOOSE GRAY CLAYEY FINE SAND
6.0-7.5	22											12	SC	MEDIUM DENSE GRAY CLAYEY FINE SAND
7.5-9.0	23											11	SC	MEDIUM DENSE ORANGE CLAYEY FINE SAND
9.0-10.5	31											8	SC	LOOSE ORANGE CLAYEY FINE SAND
10.5-12.0	35											6	SC	LOOSE ORANGE CLAYEY FINE SAND
12.5-14.0	30	98	97	97	97	92	69	38	54	32		10	SC	MEDIUM DENSE GRAY AND ORANGE PLASTIC CLAYEY SAND
15.0-16.5	28											9	SC	MEDIUM DENSE GRAY AND ORANGE PLASTIC CLAYEY SAND
17.5-19.0	74											4	CH	FIRM GRAY

SOIL CLASSIFICATION DATA

Project: I-75 AT US 41 SIGNAL POLES

Client: OSIRIS 9 CONSULTING, LLC **Project No.: 364-13-24-03**

Boring: OSP-8 **Location: COLUMBIA COUNTY, FLORIDA**

DEPTH (FEET)	Wc (%)	-4 (%)	-10 (%)	-20 (%)	-40 (%)	-60 (%)	-100 (%)	-200 (%)	LL	PI	Org. (%)	N Value	USCS	Description
														HIGHLY PLASTIC CLAY
20.0-21.5	58											9	CH	STIFF GRAY HIGHLY PLASTIC CLAY
22.5-24.0	29											7	SM	LOOSE GRAY SILTY FINE SAND
25.0-26.5	33	100	100	100	98	94	49	15				7	SC	LOOSE GRAY CLAYEY FINE SAND
28.0-30.0	33											7	SC	LOOSE GRAY CLAYEY FINE SAND

REPORT OF
STORMWATER INVESTIGATION

STORMWATER MANAGEMENT FACILITY
I-75 (SR 93) AT SR 25 (US 41)
COLUMBIA COUNTY, FLORIDA
FPID: 445725-5-54-02

Prepared For:

OSIRIS 9 CONSULTING, LLC
13241 BARTRAM PARK BOULEVARD
SUITE 1109
JACKSONVILLE, FLORIDA 32258

Prepared By:

ENVIRONMENTAL AND GEOTECHNICAL SPECIALISTS, INC.
3772 KORI ROAD
JACKSONVILLE, FLORIDA 32257
(904) 329-7180

March 2025
364-13-24-02

March 19, 2025

EGS File: 364-13-24-02

Osiris 9 Consulting, LLC
13241 Bartram Park Boulevard
Suite 1109
Jacksonville, Florida 32258

ATTN: Bryon Wuczynski, P.E.
Senior Engineer

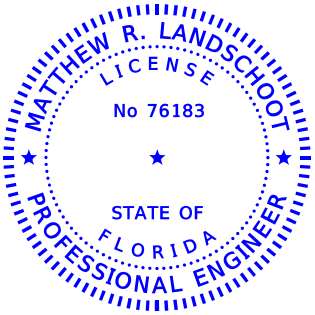
SUBJECT: **Report of Stormwater Investigation**
Stormwater Management Facility
I-75 (SR 93) at SR 25 (US 41)
Columbia County, Florida
FPID: 445725-5-54-02

Dear Bryon:

Attached is the Report of Stormwater Investigation for the above referenced project. Presented in this Report is a summary of the subsurface materials encountered, field and laboratory test results, measured groundwater and estimated "normal" seasonal high groundwater levels, geotechnical design recommendations, and construction considerations.

Environmental and Geotechnical Specialists, Inc. (**EGS**) appreciates the opportunity to be of service on this project. If you have any questions concerning the enclosed Report, please do not hesitate to call.

Sincerely,
Environmental and Geotechnical Specialists, Inc.



Matthew R. Landschoot, PE
Geotechnical Project Engineer
Florida PE No. 76183

Environmental and Geotechnical Specialists, Inc.
3772 Kori Drive
Jacksonville, FL 32257

This Report has been digitally signed and sealed by Matthew Landschoot 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.

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1.0 INTRODUCTION

Environmental and Geotechnical Specialists, Inc. (**EGS**) has completed the Report of Stormwater Investigation, as authorized by Osiris 9 Consulting, LLC (**Osiris**) and the Florida Department of Transportation (**FDOT**), for the proposed stormwater management facility (**SWMF**) at the intersection between SR 25 (US 41) and SR 93 (I-75) in Columbia County, Florida. This Report includes a summary of the subsurface investigation conducted for this project, evaluation of field and laboratory test data, material classifications, groundwater measurements, geotechnical design recommendations, and construction considerations.

2.0 SCOPE OF SERVICES

The Scope of Services authorized for this investigation consisted of the following:

- Performance of 2 Standard Penetration Test (**SPT**) soil borings to a depth of 30 feet below existing grade within the pond footprint to evaluate the subsurface materials and groundwater conditions;
- Performance of 2 “Cased Hole” field permeability tests within the pond footprint to evaluate the “in-situ” subsoil permeability near existing grade;
- Performance of routine laboratory testing of representative soil samples for determination of material composition and uniformity;
- Estimation of “normal” seasonal high groundwater levels;
- Development of geotechnical parameters, design recommendations, and construction considerations; and,
- Preparation of this Report.

3.0 SITE LOCATION AND CONDITIONS

In general, the project site for the proposed **SWMF** is located at the southeast corner of the intersection with US 41 and I-75 and is generally comprised of cleared land with sparse trees. Commercial developments exist intermittently along US 41, and both US 41 and I-75 receive moderate to high volumes of traffic. A Project Location Map has been provided as **Figure 1**.

To facilitate review of the site conditions, a copy of the United States Geological Survey (**USGS**) Topographic Map contours and the Florida Geological Survey (**FGS**) mapped “Potential Karst Features” have been superimposed on a recent aerial of the project site, provided as **Figure 2**. As depicted on the **Figure**, the general topography varies with the ground surface elevation varying from approximately EL 55 feet to EL 110 feet.

*Additionally, it should be noted that the proposed pond footprint exists within a mapped **FGS** "Potential Karst Feature" and other mapped features were found to exist within the wider project vicinity. Therefore, variable subsoil and limestone conditions were expected within the study area. It should be noted that the **FGS** "Potential Karst Features" are based on aerial topographic imagery, and only provide information as to the possibility of karst conditions in a general area.*

Based on visual observation of the site conditions and review of the Floridan Aquifer Potentiometric Surface contours within the project area, the permanent groundwater table exists between approximate EL 30 feet to 40 feet. Due to the presence of plastic subsoils within the pond footprint, groundwater was expected to exist in a perched condition within 10 feet of the ground surface. The Floridan Aquifer Potentiometric Surface Map has been provided as **Figure 3**.

Photographs of the existing site conditions have been included as **Figures 4A** and **4B**. As depicted in the photographs, the area surrounding the proposed **SWMF** is relatively flat with intermittent trees, with an existing paved drainage ditch on the southern side.

4.0 SUBSURFACE INVESTIGATION

The subsurface investigation outlined in this Report was conducted by **EGS** during January 2025. Isabella Caporini, E.I., of **EGS** served as the Field and Staff Engineer and Matthew Landschoot, P.E., was the Senior Geotechnical Engineer of Record. Additional project oversight and quality assurance / quality control (**QA/QC**) was provided by Chandra Samakur, P.E., Senior Geotechnical Engineer.

Geotechnical Investigation – EGS installed a total of 2 soil borings for this investigation using rotary drilling machinery equipped with automatic hammers to approximately 30 feet below grade. In order to evaluate the relative strength and uniformity of the subsurface materials, **SPT** sampling was conducted on continuous 2-foot intervals to the boring termination depth. To avoid possible impacts to buried utilities at some of the rotary drill boring locations, hand auger sampling techniques were used to a depth of 5.5 feet prior to proceeding with **SPT** sampling. Cone Penetrometer Index (**CPI**) tests were performed in conjunction with the hand augers on 1-foot intervals, and the **CPI** "**C**" values were then converted to equivalent **SPT** "**N**" values using the correlation "**N**" = "**C**"/4. The soil boring location data is provided in **TABLE 1**, and depicted on the Field Test Location Map included as **Figure 5**.

Soil samples were collected, classified in the field by **EGS** personnel, sealed, and transported to **EGS**' laboratory for testing. The laboratory tests included moisture contents, grain-size distributions, and Atterberg Limits. The soil samples were classified with respect to the American Association of State Highway and Transportation Officials (**AASHTO**) Soil Classification System and the Unified Soil Classification System (**USCS**).

Infiltration Investigation – **EGS** conducted a total of 2 "Cased Hole" piezometer infiltration tests to evaluate the permeability of various soil strata within the footprint of the proposed **SWMF**. The tests were labeled and numbered according to the corresponding soil boring for which they were installed (e.g. **OCH-1** was installed adjacent to **OSW-1**). A summary of the infiltration test locations has been included in **TABLE 1**.

5.0 GENERAL SUBSURFACE CONDITIONS

5.1 Geotechnical Investigation

To facilitate review of the soil boring data, **EGS** has developed generalized Soil Profiles provided as **Figure 6**. Additionally, the subsurface conditions encountered at the borings installed have been summarized in the *Stormwater Soil Survey* and *Report of Stormwater Borings* plan sheets included in **APPENDIX A**. Detailed Soil Boring Logs and Soil Classification Data sheets have been provided in **APPENDICES B** and **C**, respectively.

As depicted in **Figure 6** and **APPENDICES**, the "native" subsoils within the proposed pond footprint primarily consist of surficial "SELECT" Fine to Silty Fine Sand (**SP-SM**, **SM** / **A-3**, **A-2-4** / **STRATA A** and **B**) underlain by "PLASTIC" (**SC** / **A-2-6**, **A-6, A-7-6** / **STRATA C** and **D**) to "HIGHLY PLASTIC" soils (**CH** / **A-7-6** / **STRATUM E**), extending to boring termination depth. A shallow layer of "PLASTIC" to "HIGHLY PLASTIC" soil was encountered at Soil Boring **OSW-1** from a depth of 1.0 to 4.0 feet below existing grade.

5.2 Groundwater Conditions

To facilitate the use of groundwater data, the measured groundwater depths encountered and the estimated "normal" seasonal high groundwater at each soil boring have been included in **TABLE 2**. Additionally, the measured and estimated "normal" seasonal high groundwater are shown graphically on the Soil Profiles provided as **Figure 6**, and on the *Report of Stormwater Borings* provided in **APPENDIX A**. As indicated in the **TABLE**, groundwater was encountered at depths ranging from 19.0 feet to 20.0 feet below the existing grade (EL 45.7 to 43.7 feet), and the "normal" seasonal high groundwater levels have been expected to range from approximately 8.0 feet to 6.0 feet below existing grade (EL 56.7 to 57.7 feet). It should be noted that the surficial groundwater table will temporarily "perch" on the relatively shallow low-permeability "PLASTIC" to "HIGHLY PLASTIC" subsoils which exist; therefore, significant seasonal fluctuations of the surficial groundwater table should be expected. Additionally, based on the depth to the "PLASTIC" subsoils and subsequent seasonal high groundwater water levels at the proposed pond site, **EGS believes** that some soils may have been previously undercut and replaced. The anticipated seasonal high groundwater level for the **SWMF** is approximately 5 to 10 feet deeper, when compared to the seasonal highs anticipated for the borings associated with the Geotechnical Report for the roadway widening (**EGS** Project No. 364-13-24-01).

5.3 NRCS Soil Survey

As part of this investigation, **EGS** reviewed the United States Department of Agriculture (**USDA**) Natural Resources Conservation Service (**NRCS**) Soil Survey of Columbia County, Florida. The soils reported in the **NRCS** Soil Survey are fairly consistent with the soils encountered during the field investigation. It should be noted, however, that the **NRCS** Soil Survey is used as an approximation of likely soils within the project area. Slight variations in soil properties will occur when comparing data from the **NRCS** Soil Survey and data obtained in the field.

To correlate the properties summarized in the **NRCS** Soil Survey, **EGS** has provided **TABLE 3**, which includes the **NRCS** material number, name, and pertinent data for each material reported within the project limits. Additionally, **Figure D1**, as well as copies of select **TABLES** from the **NRCS** Soil Survey have been provided in **APPENDIX D**.

5.4 Soil Permeability Values

Recommended soil permeability values for the materials encountered within the **SWMF** are summarized in **TABLE 4**. The **TABLE** includes permeability values reported in **USDA**'s **NRCS** Soil Survey Data report for Columbia County, estimates based on laboratory grain-size correlations, and the field infiltration tests. Permeability data, which includes grain-size distribution data, and infiltration test data, has been provided in **APPENDIX E**.

It should be noted the correlations between grain-size curves obtained from laboratory testing and soil permeability values were used to verify and check values obtained from field infiltration tests. Permeability values estimated from grain-size distribution curves were based on the correlations developed at the University of Florida for Florida soils. **EGS cautions** that the permeability values shown in **TABLE 4** are not infiltration rates, as they do not account for the effects of clogging with fines, groundwater mounding, or contain a factor of safety.

6.0 STORMWATER RECOMMENDATIONS

6.1 Existing Soils

Based on a review of the soils encountered throughout the project and the soil definitions included in the ***FDOT*** *Standard Plans Index 120-001*, the following **STRATA** descriptions apply:

- **STRATA A** and **B** are "SELECT" soils.
- **STRATA C** and **D** are "PLASTIC" soils (LL<50);
- **STRATUM E** is a "HIGHLY PLASTIC" soil (LL≥50).

Reuse of any materials excavated shall be in accordance with ***FDOT*** *Standard Plans Index 120-001*.

6.2 Infiltration Design Considerations

As part of this study, **EGS** developed soil parameters for the design of the **SWMF**. Due to the presence of low-permeability Clayey Sand (**SC** / **A-6** / **STRATUM D**) to Highly Plastic Sandy Clay (**CH** / **A-7-6** / **STRATUM E**) near the proposed pond bottom (EL 63 feet), ***EGS recommends*** *overexcavation to a depth of 2.5 feet below the proposed pond bottom and backfilling with a "SELECT" fine sand (**SP-SM** / **A-3**) having a maximum of 10% Fines passing No. 200 sieve and a minimum average lab permeability of 10 inches per hour, tested in accordance with **AASHTO T215**.* The intent of the sand backfill is to improve the short-term storage coefficient below the pond, and increase the short-term infiltration rate. The infiltration design parameters, based on the implementation of the above recommendations, have been provided in **TABLE 5**. The average storage coefficient (effective or fillable porosity) of the subsoils for the **SWMF** were estimated using the following equation:

$$s_c = 0.9\eta - \frac{Wc \cdot \gamma_{dry}}{\gamma_w}$$

Where:

s_c	=	Average Storage Coefficient
η	=	Total Porosity
Wc	=	Natural Moisture Content (as a Fraction)
γ_{dry}	=	Dry Unit Weight of Soil
γ_w	=	Unit Weight of Water

EGS cautions *the permeability rates summarized in the **TABLE** are not infiltration rates, as they do not include the effects of clogging with fines, groundwater mounding, or contain a factor of safety.* For the design of the **SWMF**, groundwater mounding should be modeled and a minimum factor of safety of 2.0 should be applied in order to determine an appropriate infiltration rate.

The mounding of groundwater causes the hydraulic head to reduce as the length of seepage increases, thus causing the hydraulic gradient to decrease. As the hydraulic gradient decreases, the effective infiltration rate through the bottom of the facility also reduces with time.

6.3 Slope Stability Considerations

Detailed information regarding the proposed side slopes was not available at the time of this Report submittal. Therefore, the proposed side slopes have not been analyzed for global or surficial stability. It should be noted that based on the conditions encountered within the proposed **SWMF** site, the following should be considered for the design of the proposed slopes:

- Maintaining slopes comprised of sandy soils steeper than **1V:3H** can be extremely difficult without causing erosion due to wheel impacts of typical mowing equipment. Therefore, ***EGS*** *recommends that the **SWMF** side slopes be designed as a minimum of **1V:3H** or flatter*, as needed, to ensure global

stability and maintainability. If slopes within the range of **1V:2H** to **1V:3H** are required, **EGS recommends** use of permanent surface protection to address any potential maintenance concerns, in coordination with the District Project Manager and the respective District Maintenance Office for concurrence.

- **EGS recommends** that dewatering countermeasures, in accordance with ***FDOT*** *Standard Specifications*, be implemented prior to the start of any excavation planned to extend below the groundwater table.

7.0 CONSTRUCTION PLANS

EGS recommends the following be included in the Roadway Construction Plans:

- Geotechnical Plan Sheets – *Stormwater Soil Survey* and *Report of Stormwater Borings* included in **APPENDIX A** of this Report.

- The approximate subsoil excavation limits identified in this Report should be shown on the Stormwater Cross Sections.

Due to the karst sensitive nature of the project vicinity, ***EGS recommends*** *the following note be added to the Plans:*

- ***Perform compaction in "static" mode only.***

8.0 CLOSURE

The data and results presented in this Report of Geotechnical Investigation are intended for use by Osiris 9 Consulting, LLC And the Florida Department of Transportation for the design of the stormwater management facility at the intersection between SR 25 (US 41) at I-75 (SR 93) in Columbia County, as identified herein. This data may not be used without the expressed written consent of Osiris 9 Consulting, LLC and the Florida Department of Transportation. This Report is not intended for any other use and will likely not be applicable. This Report shall not be reproduced, except in full, without the written approval of Environmental and Geotechnical Specialists, Inc. The data and recommendations presented in this Report are based on the borings made at the specific locations and depths noted. Subsurface conditions at other locations may vary significantly from those presented herein. Should data become available which is different from the data presented herein, Environmental and Geotechnical Specialists, Inc. requests the opportunity to review the data and make any modifications to the design recommendations that may be appropriate.

TABLES

TABLE 1
SOIL BORING AND FIELD TEST LOCATION DATA
STORMWATER MANAGEMENT FACILITY
I-75 (SR 93) AT SR 25 (US 41)
COLUMBIA COUNTY, FLORIDA

BORING / TEST NUMBER	BORING DEPTH [1] (FEET)	STATION [2] (FEET)	OFFSET [2] (FEET)	GROUND SURFACE ELEVATION [2] (FEET)	GLOBAL POSITIONING SYSTEM (GPS) COORDINATES [3]			
					LATITUDE		LONGITUDE	
					DEG (°)	MIN (')	DEG (°)	MIN (')
OSW-1 / OCH-1	30.0	533+02	161 RIGHT	64.7	29	59.935	82	35.809
OSW-2 / OCH-2	30.0	532+40	375 RIGHT	63.7	29	59.925	82	35.768

NOTES: 1. DEPTH IS MEASURED BELOW EXISTING GROUND SURFACE.
2. STATION, OFFSETS, AND ELEVATIONS ARE APPROXIMATE AND BASED ON ELECTRONIC FILES PROVIDED BY **OSIRIS 9 CONSULTING, LLC**.
3. COORDINATES ARE APPROXIMATE AND BASED ON FIELD MEASUREMENTS AND MAPPING SOFTWARE.

TABLE 2
GROUNDWATER DATA
STORMWATER MANAGEMENT FACILITY
I-75 (SR 93) AT SR 25 (US 41)
COLUMBIA COUNTY, FLORIDA

BORING / TEST NUMBER	BORING TYPE (FEET)	BORING DEPTH [1] (FEET)	INFILTRATION TEST TYPE	INFILTRATION TEST DEPTH [1] (FEET)	GROUND SURFACE ELEVATION [2] (FEET)	MEASURED GROUNDWATER [3]		ESTIMATED "NORMAL" SEASONAL HIGH GROUNDWATER [4]	
						DEPTH (FEET)	ELEVATION (FEET)	DEPTH (FEET)	ELEVATION (FEET)
OSW-1 / OCH-1	SPT	30.0	CASED HOLE	8.0 - 10.0	64.7	19.0	45.7	8.0	56.7
OSW-2 / OCH-2	SPT	30.0	CASED HOLE	5.0 - 7.0	63.7	20.0	43.7	6.0	57.7
AVERAGE VALUES							44.7		57.2

NOTES: 1. DEPTHS ARE MEASURED BELOW EXISTING GROUND SURFACE.
2. ELEVATIONS ARE APPROXIMATE AND BASED ON ELECTRONIC FILES PROVIDED BY **OSIRIS 9 CONSULTING, LLC**.
3. MEASURED GROUNDWATER BASED ON 24-HOUR VALUES ENCOUNTERED IN THE FIELD.
4. ESTIMATED "NORMAL" SEASONAL HIGH GROUNDWATER LIKELY EXISTS IN A TEMPORARY PERCHED CONDITION.

TABLE 3
NRCS SOIL SURVEY DATA
STORMWATER MANAGEMENT FACILITY
I-75 (SR 93) AT SR 25 (US 41)
COLUMBIA COUNTY, FLORIDA

MATERIAL REFERENCE NUMBER	BORING NUMBER	MATERIAL NAME	DEPTH (INCHES)	MATERIAL DESCRIPTION	MATERIAL CLASSIFICATION		REACTION	CORROSION POTENTIAL		DEPTH TO SEASONAL HIGH GROUNDWATER (FEET)
					UNIFIED	AASHTO	(pH)	UNCOATED STEEL	CONCRETE	
8	OSW-1, OSW-2	BLANTON FINE SAND, 0 TO 5 PERCENT SLOPES	0 - 7	FINE SAND	SM, SP-SM	A-2-4, A-3	4.5 - 5.5	LOW	HIGH	3.5 - 6.0
			7 - 52	FINE SAND	SM, SP-SM	A-2-4, A-3	4.5 - 5.5			
			52 - 80	FINE SANDY LOAM, SANDY CLAY LOAM, SANDY LOAM	SC-SM, SC, CL	A-2-4, A-6	4.5 - 5.5			

NOTES: 1. BASED ON THE NRCS SOIL SURVEY REPORT FOR COLUMBIA COUNTY, FLORIDA.
2. SEE **APPENDIX D** FOR DETAILED NRCS SOIL SURVEY INFORMATION.

TABLE 4
SOIL PERMEABILITY ESTIMATES
STORMWATER MANAGEMENT FACILITY
I-75 (SR 93) AT SR 25 (US 41)
COLUMBIA COUNTY, FLORIDA

STRATUM LETTER	MATERIAL CLASSIFICATION			SOIL PERMEABILITY VALUES				
	UNIFIED	AASHTO	USDA TEXTURAL	NRCS SOIL SURVEY ESTIMATE [1] (IN/HR)	LABORATORY GRAIN-SIZE ESTIMATE [2] (IN/HR)	FIELD ESTIMATE [3] (IN/HR)	RECOMMENDED PERMEABILITY VALUES [4] SATURATED VERTICAL (IN/HR)	RECOMMENDED PERMEABILITY VALUES [4] SATURATED HORIZONTAL (IN/HR)
A	SP-SM	A-3	FINE SAND	6.0 - 20.0	6.0	N/T	**6.0**	**9.0**
B	SM	A-2-4	LOAMY SAND	2.0 - 6.0	6.0	4.5	**4.5**	**6.8**
C	SC	A-2-6	FINE SANDY LOAM	0.6 - 2.0	0.9 - 1.3	0.1	**0.1**	**0.2**
D	SC	A-6, A-7-6 (LL < 50)	SANDY CLAY LOAM	0.2 - 0.6	< 0.1	N/T	**< 0.1**	**< 0.1**
E	CH	A-7-6 (LL ≥ 50)	CLAY LOAM	0.2 - 0.6	< 0.01	N/T	**< 0.01**	**< 0.01**

NOTES:
1. REPORTED IN NRCS SOIL SURVEY FOR COLUMBIA COUNTY, FLORIDA.
2. ESTIMATED FROM GRAIN-SIZE CORRELATION CURVES.
3. MEASURED FROM FIELD INFILTRATION TESTS PERFORMED BY **EGS**. DETAILED TEST RESULTS ARE PROVIDED IN **APPENDIX E**.
4. RECOMMENDED SATURATED PERMEABILITY VALUES SHOWN ARE NOT INFILTRATION VALUES SINCE THEY DO NOT INCLUDE THE EFFECTS OF GROUNDWATER MOUNDING, CLOGGING WITH FINES, OR FACTOR OF SAFETY.
5. N/T MEANS NOT TESTED.

TABLE 5
INFILTRATION DESIGN PARAMETERS
STORMWATER MANAGEMENT FACILITY
I-75 (SR 93) AT SR 25 (US 41)
COLUMBIA COUNTY, FLORIDA

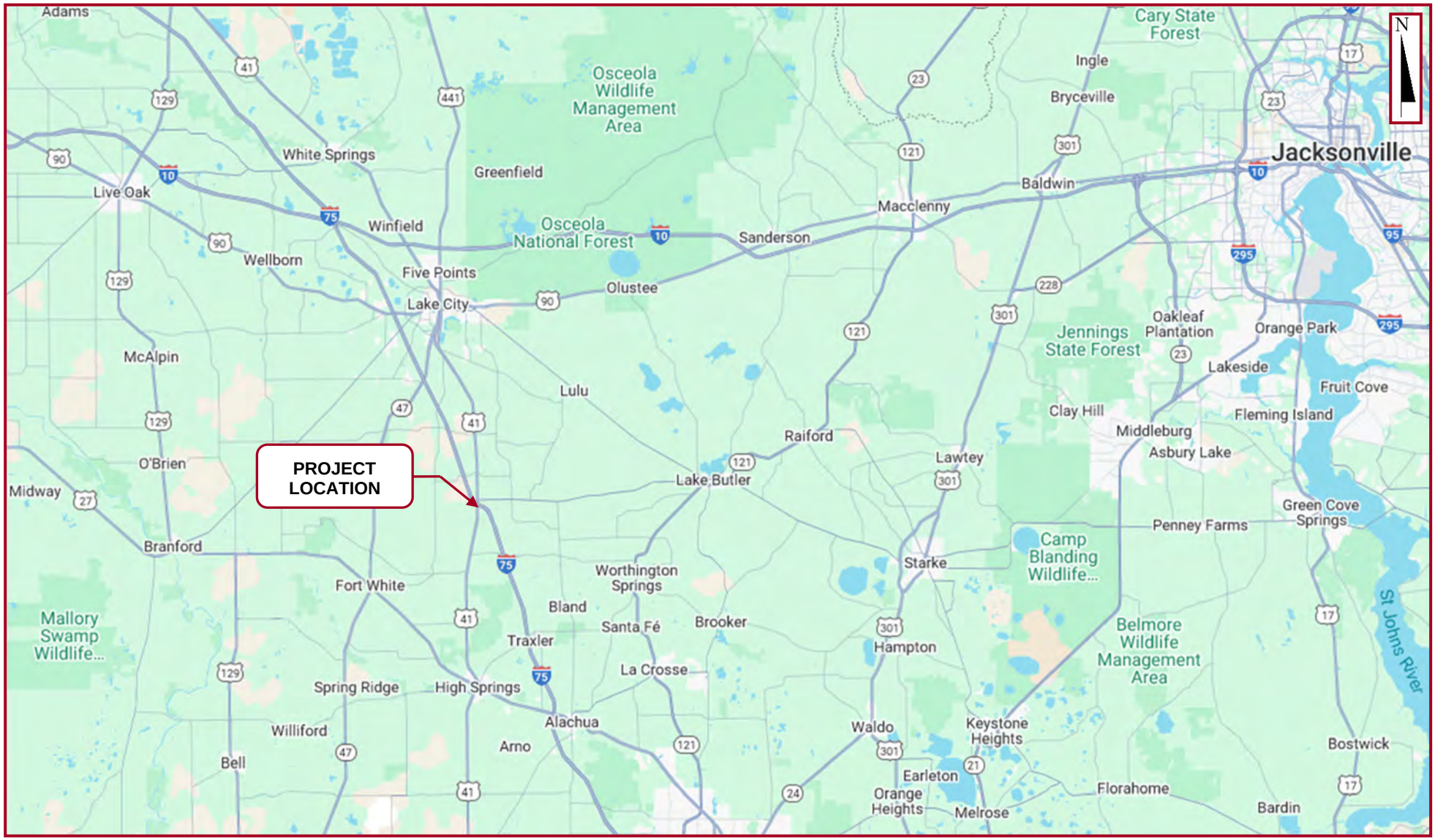
PARAMETER	ELEVATION (FEET)	VALUE/UNITS
SWMF 1 (SOIL BORINGS OSW-1 AND OSW-2)		
AVERAGE UNSATURATED VERTICAL PERMEABILITY	63.0 - 57.2	4.6 INCHES/HOUR
AVERAGE SATURATED VERTICAL PERMEABILITY	63.0 - 57.2	6.9 INCHES/HOUR
AVERAGE EFFECTIVE STORAGE COEFFICIENT	63.0 - 57.2	0.30
AVERAGE EFFECTIVE POROSITY	63.0 - 57.2	0.43
BOTTOM OF POND ELEVATION [2]	63.0	FEET
ESTIMATED SEASONAL HIGH GROUNDWATER	57.2	FEET
EXISTING GROUNDWATER	44.7	FEET
ESTIMATED CONFINING LAYER	57.2	FEET
AVERAGE HORIZONTAL SATURATED PERMEABILITY	63.0 - 57.2	10.4 INCHES/HOUR
AVERAGE SPECIFIC YIELD	63.0 - 57.2	30%

NOTES 1. THE ABOVE PERMEABILITY RATES ARE NOT INFILTRATION RATES AS THEY DO NOT INCLUDE THE EFFECTS OF CLOGGING WITH FINES, GROUNDWATER MOUNDING, OR A FACTOR OF SAFETY.

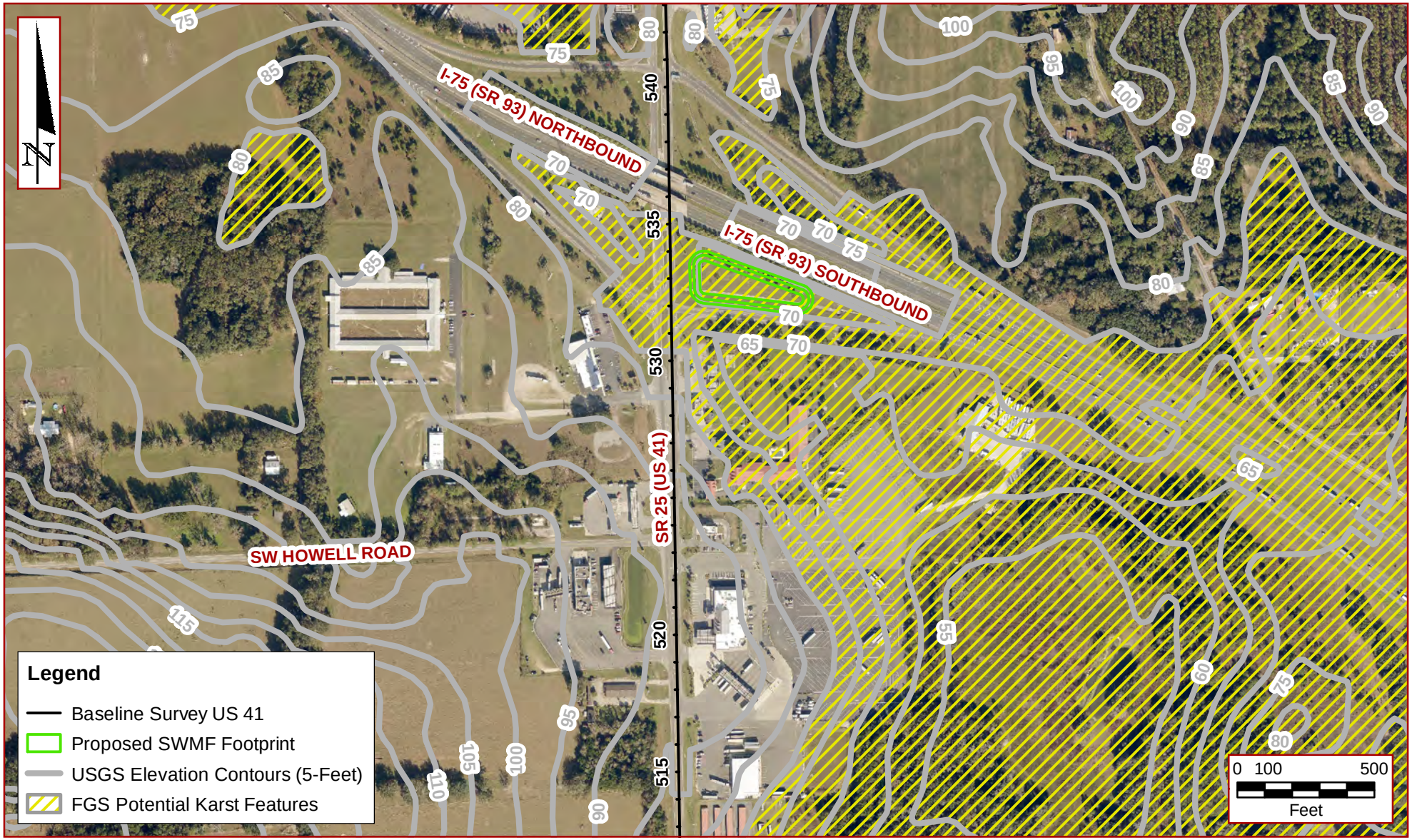
2. BOTTOM OF PROPOSED POND PROVIDED BY **OSIRIS**.

3. VALUES SHOWN IN THIS TABLE ARE BASED ON EXCAVATION TO ELEVATION 60.7 FEET AND REPLACEMENT WITH A “SELECT” FINE SAND (**SP-SM** / **A-3**). SEE SECTION *6.2 INFILTRATION DESIGN CONSIDERATIONS* IN REPORT TEXT.

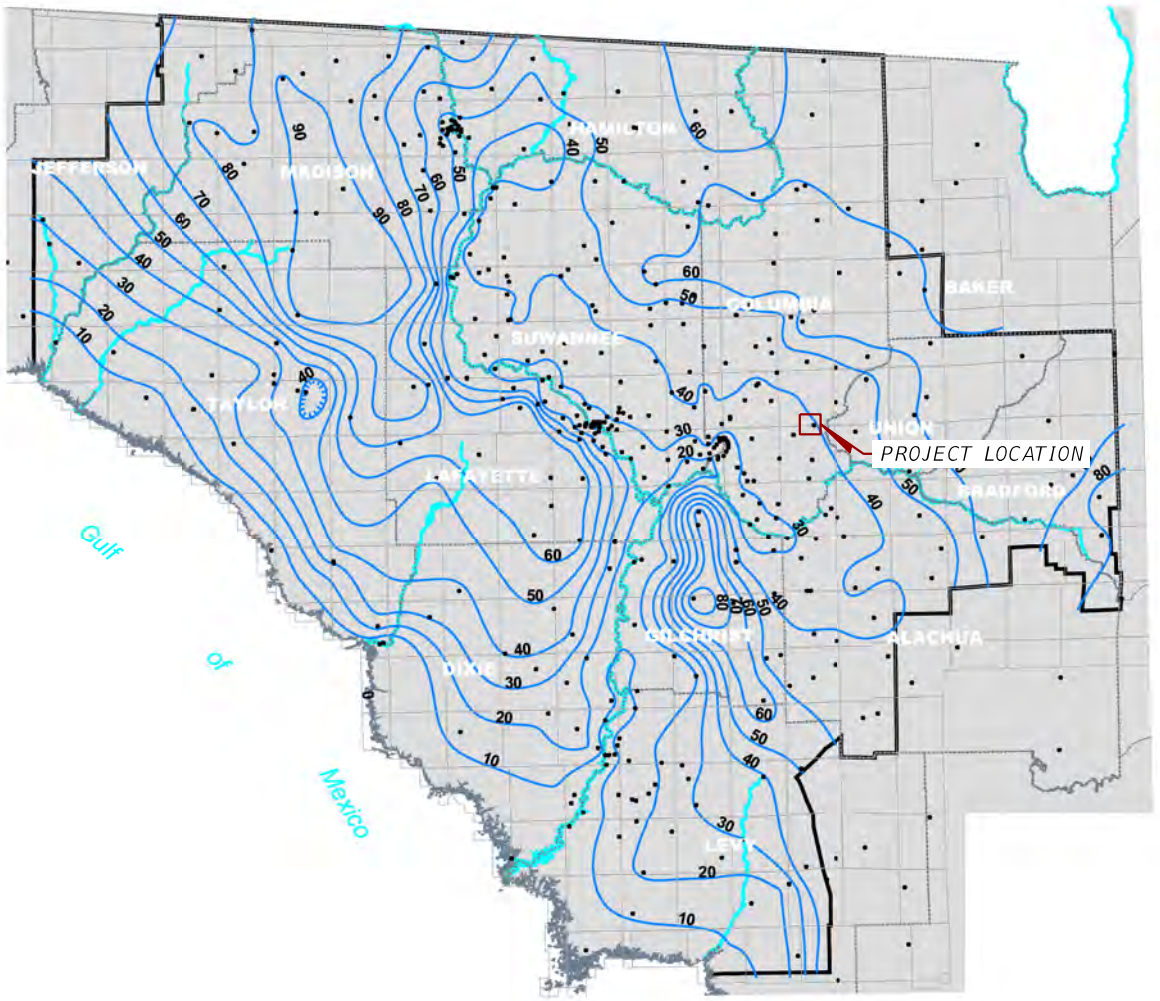
FIGURES



DRAWN: A. CRAIG, E.I.	CHECKED: I. CAPORINI, E.I.	Environmental & Geotechnical Specialists, Inc. 3227 Kori Road Jacksonville, Florida 32257 Office: (904) 329-7180	TITLE: PROJECT LOCATION MAP STORMWATER MANAGEMENT FACILITIES I-75 (SR 93) AT SR 25 (US 41) COLUMBIA COUNTY, FLORIDA	
ENGINEER: M. LANDSCHOOT, P.E.				
CLIENT: OSIRIS 9 CONSULTING, LLC				
PROJ. NO.: 364-13-24-02	SCALE: NOT TO SCALE		DATE: FEBRUARY 2025	FIGURE NO.: 1



DRAWN: A. CRAIG, E.I.	CHECKED: I. CAPORINI, E.I.	Environmental and Geotechnical Specialists, Inc. 3772 Kori Road Jacksonville, Florida 32257 Office: (904) 329-7180	TITLE: USGS TOPOGRAPHIC MAP STORMWATER MANAGEMENT FACILITY I-75 (SR 93) AT SR 25 (US 41) COLUMBIA COUNTY, FLORIDA
ENGINEER: M. LANDSCHOOT, P.E.			
CLIENT: OSIRIS 9 CONSULTING, LLC			
PROJ. NO.: 364-13-24-02	SCALE: AS SHOWN		DATE: FEBRUARY 2025 / FIGURE NO.: 2



NOTE

DATA OBTAINED FROM SUWANNEE RIVER WATER MANAGEMENT DISTRICT FLORIDAN AQUIFER POTENTIOMETRIC SURFACES 2005.

LEGEND

- OBSERVATION WELL
- POTENTIOMETRIC SURFACE CONTOUR (10-FEET)

PREPARED BY:	A. CRAIG, E.I.
CHECKED:	K. MORALES, P.E.
REVISED:	I. CAPORINI, E.I.
ENGINEER:	M. LANDSCHOOT, P.E.

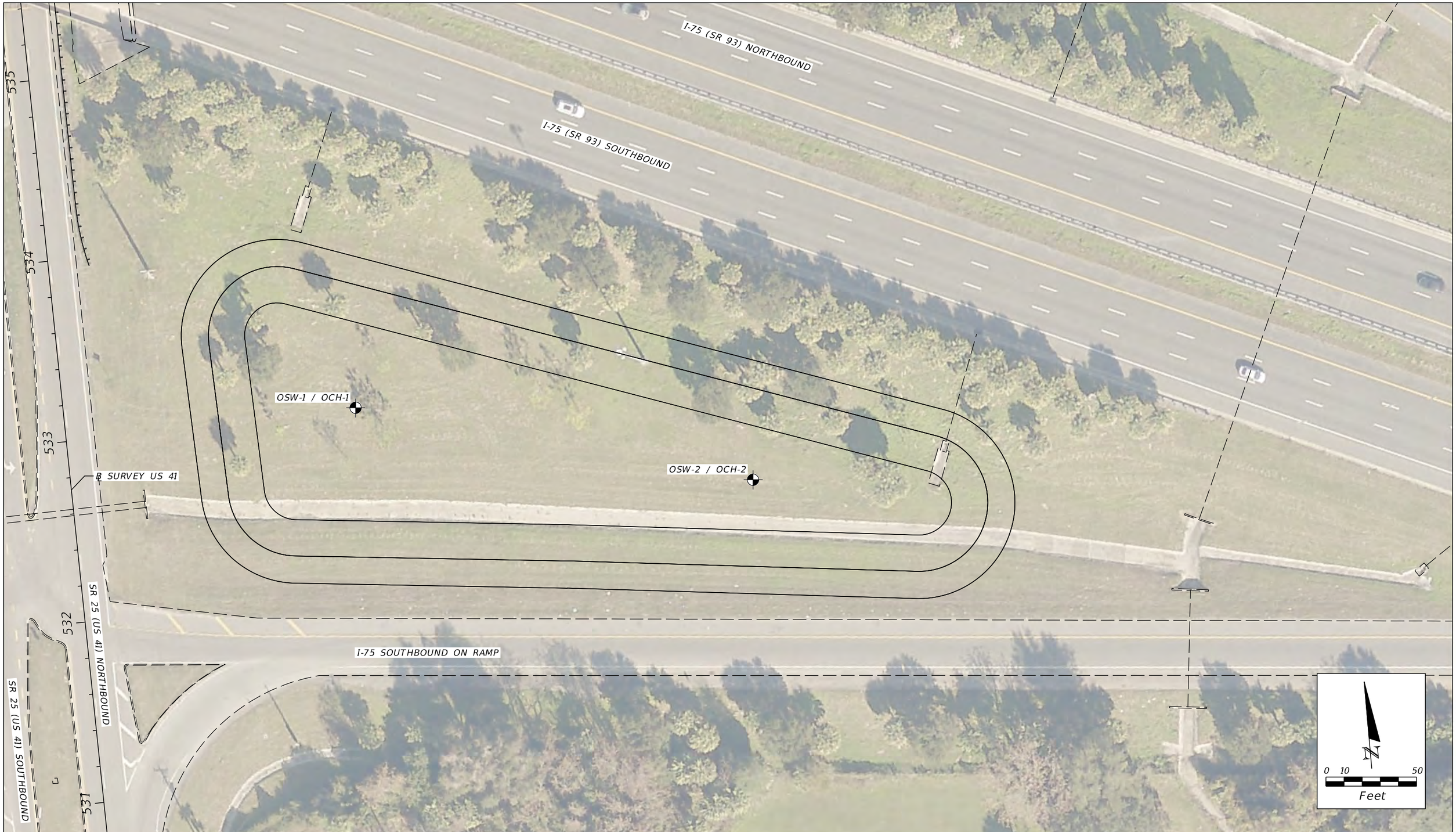
Environmental & Geotechnical Specialists, Inc.
3772 Kori Road
Jacksonville, Florida 32257
Office: (904) 329-7180

POTENTIOMETRIC MAP
STORMWATER MANAGEMENT FACILITY
I-75 (SR 93) AT SR 25 (US 41)
COLUMBIA COUNTY, FLORIDA

SCALE:	AS SHOWN	DATE:	FEBRUARY 2025
PROJ. NO.:	364-13-24-02	FIGURE NO.:	3

FIGURE 4A: PHOTOGRAPH OF EXISTING STORMWATER POND SITE CONDITIONS (FACING EAST)

FIGURE 4B: PHOTOGRAPH OF EXISTING STORMWATER POND SITE CONDITIONS (FACING NORTHWEST)



LEGEND

SPT SOIL BORING / CASED HOLE LOCATION

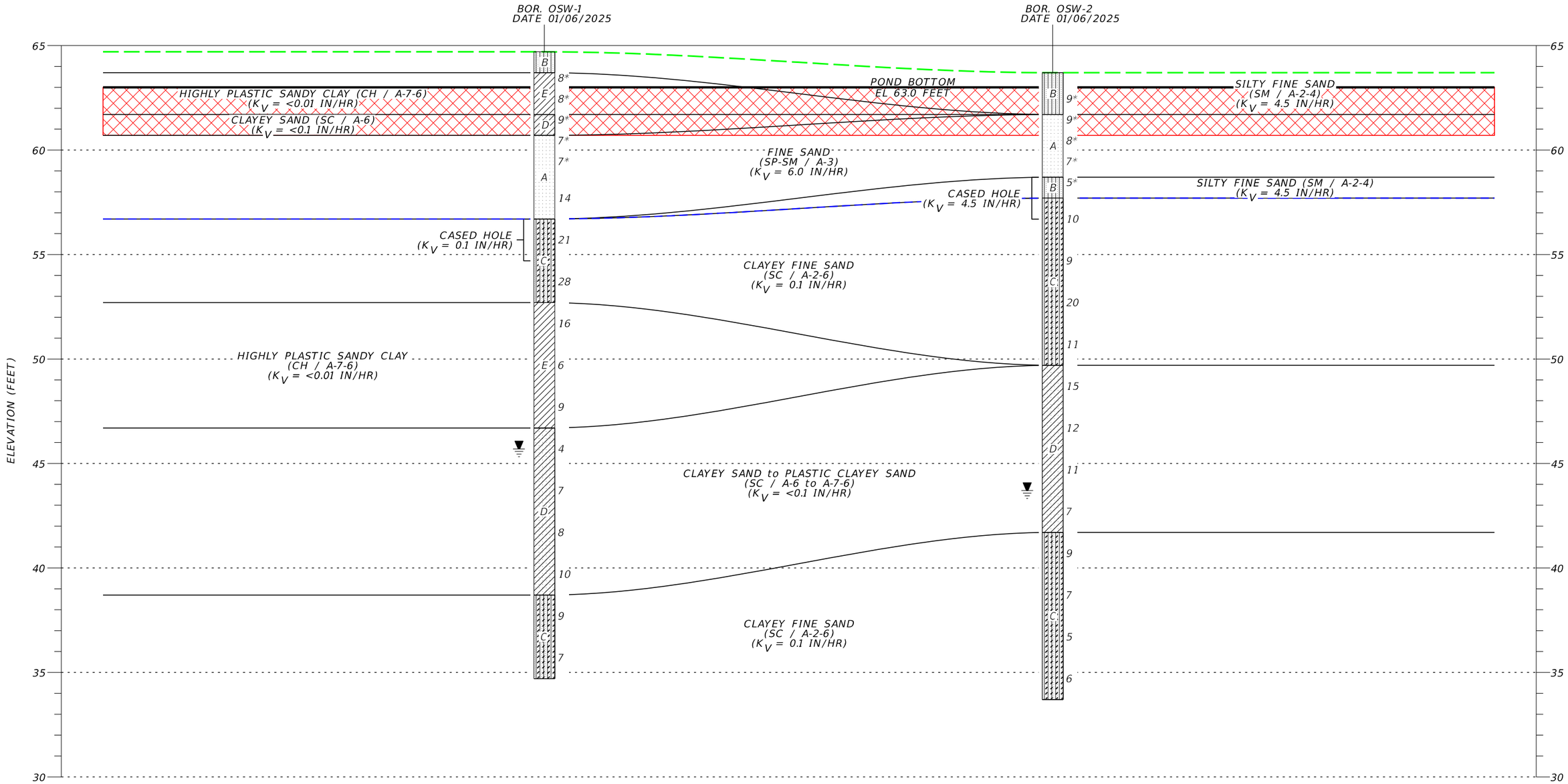
PREPARED:	I. CAPORINI, E.I.
CHECKED:	K. MORALES, P.E.
REVISED:	I. CAPORINI, E.I.
ENGINEER:	M. LANDSCHOOT, P.E.

Environmental and Geotechnical Specialists, Inc.

3772 Kori Road
Jacksonville, Florida 32257
Office: (904) 329-7180

FIELD TEST LOCATION MAP
STORMWATER MANAGEMENT FACILITY
I-75 (SR 93) AT SR 25 (US 41)
COLUMBIA COUNTY, FLORIDA

SCALE:	AS SHOWN	DATE:	JANUARY 2025
PROJ. NO.:	346-13-24-02	FIGURE NO.:	5



LEGEND

- MEASURED GROUNDWATER
- ESTIMATED "NORMAL" SEASONAL HIGH GROUNDWATER
- EXISTING GROUND SURFACE
- APPROXIMATE LIMITS OF RECOMMENDED OVEREXCAVATION

NOTES

1. PROFILES ARE NOT HORIZONTALLY SCALED.
2. LETTERS IN CENTER OF BORINGS INDICATE THE SOIL STRATUM LETTER.
3. MATERIAL PROPERTIES OF EACH SOIL STRATUM ARE PROVIDED IN APPENDIX A.
4. SEE CLASSIFICATION DATA SHEETS FOR DETAILED STRATUM PROPERTIES IN APPENDIX C.
5. NUMBERS TO THE RIGHT OF BORING INDICATE EQUIVALENT STANDARD PENETRATION TEST (SPT) N-VALUES OR EQUIVALENT VALUES FOR 12-INCH PENETRATION.
6. ELEVATIONS ARE APPROXIMATE AND BASED ON ELECTRONIC FILES PROVIDED BY OSIRIS.

PREPARED:	A. CRAIG, E.I.
CHECKED:	I. CAPORINI, E.I.
REVISED:	A. CRAIG, E.I.
ENGINEER:	M. LANDSCHOOT, P.E.

Environmental & Geotechnical Specialists, Inc.

3772 Kori Road
Jacksonville, Florida 32257
Office: (904) 329-7180

SOIL PROFILES
STORMWATER MANAGEMENT FACILITY
I-75 (SR 93) AT SR 25 (US 41)
COLUMBIA COUNTY, FLORIDA

SCALE:	AS SHOWN	DATE:	FEBRUARY 2025
PROJ. NO.:	364-13-24-02	FIGURE NO.:	6

APPENDIX A

GEOTECHNICAL PLAN SHEETS

DATE OF SURVEY: JANUARY 2025
SURVEY MADE BY: ENVIRONMENTAL AND GEOTECHNICAL SPECIALISTS, INC.
SUBMITTED BY: MATTHEW R. LANDSCHOOT

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION
MATERIALS AND RESEARCH

DISTRICT: TWO
ROAD NO.: SR 25 (US 41)
COUNTY: COLUMBIA

PROJECT NAME: US 41 STORMWATER MANAGEMENT FACILITY

FINANCIAL PROJECT ID: 445725-5-54-02

CROSS SECTION SOIL SURVEY FOR THE DESIGN OF STORMWATER FACILITIES

SURVEY BEGINS STA.: 531+64 SURVEY ENDS STA.: 534+00

REFERENCE: ℄ SURVEY US 41

	ORGANIC CONTENT		MOISTURE CONTENT		SIEVE ANALYSIS RESULTS % PASS						ATTERBERG LIMITS (%)					
STRATUM NO.	NO. OF TESTS	% ORGANIC	NO. OF TESTS	% MOISTURE	NO. OF TESTS	10 MESH	40 MESH	60 MESH	100 MESH	200 MESH	NO. OF TESTS	LIQUID LIMIT	PLASTIC INDEX	AASHTO GROUP	COLOR	DESCRIPTION
A	--	--	6	2-6	1	100	95	79	39	10	--	--	--	A-3	GRAY	FINE SAND
B	--	--	4	5-15	1	100	96	84	47	13	--	--	--	A-2-4	GRAY	SILTY FINE SAND (<20% PASSING NO. 200)
C	--	--	12	13-36	3	99-100	96-99	84-89	41-56	22-28	2	31-39	18-21	A-2-6	GRAY, ORANGE	CLAYEY FINE SAND
D	--	--	9	23-31	2	100	98-99	86-89	48-63	36-40	1	49	29	A-6, A-7-6	GRAY, ORANGE	CLAYEY SAND, PLASTIC CLAYEY SAND
E	--	--	5	28-77	2	83-100	75-97	72-85	63-64	53-54	2	55-91	42-61	A-7-6	GRAY, ORANGE	HIGHLY PLASTIC SANDY CLAY

EMBANKMENT AND SUBGRADE MATERIAL

STRATA BOUNDARIES ARE APPROXIMATE. MAKE FINAL CHECK AFTER GRADING.

▼ - WATER TABLE ENCOUNTERED

▽ - ESTIMATED SEASONAL HIGH GROUNDWATER LEVEL

STRATUM NOTES

1. STRATA BOUNDARIES ARE APPROXIMATE AND REPRESENT SOIL STRATA AT EACH BORING ONLY. ANY SUBSOIL CONNECTING LINES ARE FOR ESTIMATING ONLY AND DO NOT INDICATE ACTUAL STRATUM LIMITS. SUBSURFACE VARIATIONS BETWEEN BORINGS SHOULD BE ANTICIPATED.
2. STRATA A AND B ARE "SELECT" SOILS.
3. STRATA C AND D ARE "PLASTIC" SOILS WITH AN AVERAGE LIQUID LIMIT LESS THAN 50.
4. STRATUM E IS A "HIGHLY PLASTIC" SOIL WITH AN AVERAGE LIQUID LIMIT GREATER THAN 50.
5. REUSE OF THESE STRATA SHALL BE IN ACCORDANCE WITH FDOT STANDARD PLANS INDEX 120-001.
6. REMOVAL OF THESE STRATA SHALL BE IN ACCORDANCE WITH FDOT STANDARD PLANS INDEX 120-002.

REVISIONS				ENGINEER OF RECORD	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			STORMWATER SOIL SURVEY	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION	MATTHEW R. LANDSCHOOT, P.E. LICENSE NUMBER: 76183 ENVIRONMENTAL AND GEOTECHNICAL SPECIALISTS, INC. 3772 KORI ROAD JACKSONVILLE, FLORIDA 32257	ROAD NO.	COUNTY	FINANCIAL PROJECT ID		
					SR 25	COLUMBIA	445725-5-54-02		

THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.

NOTES

1. NUMBERS LEFT OF BORINGS INDICATE STANDARD PENETRATION TEST (SPT) N-VALUES OR EQUIVALENT FOR 12-INCH PENETRATION.
2. GROUNDWATER ELEVATIONS SHOWN ARE THE GROUNDWATER ELEVATIONS ENCOUNTERED. FLUCTUATIONS IN THE ELEVATION OF GROUNDWATER SHOULD BE EXPECTED.
3. SOIL DESCRIPTIONS, TEST DATA, AND STANDARD PENETRATION VALUES SHOWN ARE FOR THE SOIL BORING ONLY AND MAY NOT APPLY TO ANY OTHER LOCATIONS EXCEPT AT THE LOCATION OF THE SOIL BORING. EXTRAPOLATION OF THE SOIL BORING DATA TO OTHER LOCATIONS IS THE SOLE RESPONSIBILITY OF THE PERSON PERFORMING THE EXTRAPOLATION.
4. ASTERISK INDICATES EQUIVALENT SPT N-VALUES CONVERTED FROM CONE PENETROMETER INDEX (CPI) VALUES.
5. LETTERS IN THE CENTER OF BORINGS INDICATE THE STRATUM. MATERIAL PROPERTIES OF EACH SOIL STRATUM ARE PROVIDED IN THE STORMWATER SOIL SURVEY.

AUTOMATIC HAMMER

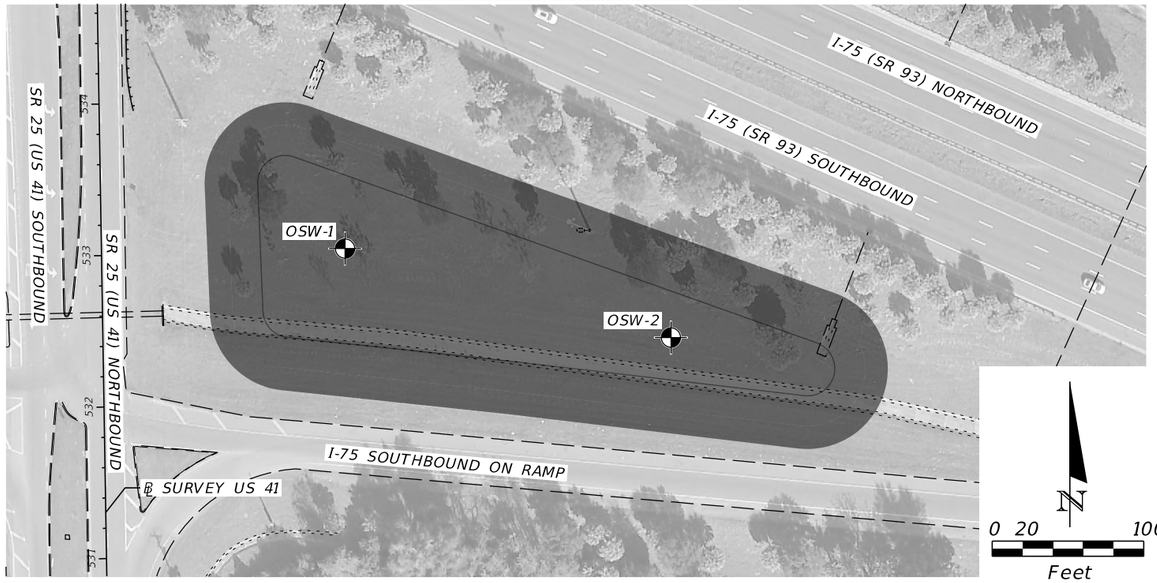
GRANULAR MATERIALS RELATIVE DENSITY	SPT (BLOWS/12 IN.)	SILTS AND CLAYS CONSISTENCY	SPT (BLOWS/12 IN.)
VERY LOOSE	LESS THAN 3	VERY SOFT	LESS THAN 1
LOOSE	3 - 8	SOFT	1 - 3
MEDIUM DENSE	8 - 24	FIRM	3 - 6
DENSE	24 - 40	STIFF	6 - 12
VERY DENSE	GREATER THAN 40	VERY STIFF	12 - 24
		HARD	GREATER THAN 24

SPLIT-SPOON: INSIDE DIAMETER: 1.375 IN
OUTSIDE DIAMETER: 2.0 IN
AVG. HAMMER DROP: 30.0 IN
HAMMER WEIGHT: 140 LBS

LEGEND

- SPT SOIL BORING LOCATION
- MEASURED GROUNDWATER LEVEL
- ESTIMATED "NORMAL" SEASONAL HIGH GROUNDWATER
- LABORATORY TESTING RESULTS
  - WATER CONTENT Wc=
  - -200 SIEVE -200=
  - PLASTICITY INDEX PI=
  - LIQUID LIMIT LL=
- FINE SAND (A-3, SP-SM)
- SILTY FINE SAND (A-2-4, SM)
- CLAYEY FINE SAND (A-2-6, SC) TO PLASTIC CLAYEY SAND (A-7-6, SC)
- HIGHLY PLASTIC SANDY CLAY (A-7-6, CH)
- (A-2-4) AASHTO CLASSIFICATION GROUP SYMBOL
- (SM) USCS GROUP SYMBOL

SOIL BORING LOCATION MAP



ENVIRONMENTAL CLASSIFICATION

SUBSTRUCTURE: MODERATELY AGGRESSIVE FOR STEEL AND CONCRETE (RESISTIVITY=2,900 OHM-CM)

BORE # OSW-1
REFERENCE SURVEY US 41
STATION 533+02
OFFSET 161 FEET RIGHT
ELEVATION 64.7 FEET
DATE 1/6/2025
DRILLER W. CHOMAT
HAMMER AUTOMATIC
RIG D-25

		B	LOOSE GRAY SILTY FINE SAND (A-2-4, SM)
Wc = 43, -200 = 53, PI = 61, LL = 91	8*	E	STIFF GRAY HIGHLY PLASTIC SANDY CLAY (A-7-6, CH)
	8*		
	9*	D	MEDIUM DENSE GRAY CLAYEY SAND (A-6, SC)
Wc = 4, -200 = 10	7*		
	7*	A	LOOSE TO MEDIUM DENSE GRAY FINE SAND (A-3, SP-SM)
	14		
	21	C	MEDIUM DENSE TO DENSE GRAY CLAYEY FINE SAND (A-2-6, SC)
	28		
Wc = 46, -200 = 54, PI = 42, LL = 55	16	E	VERY STIFF GRAY AND ORANGE HIGHLY PLASTIC SANDY CLAY (A-7-6, CH)
	6		
	9	E	FIRM TO STIFF GRAY AND ORANGE HIGHLY PLASTIC SANDY CLAY (A-7-6, CH)
Wc = 31, -200 = 36, PI = 29, LL = 49	4		
	7	D	LOOSE TO MEDIUM DENSE GRAY AND ORANGE PLASTIC CLAYEY SAND (A-7-6, SC)
	8		
	10		
Wc = 27, -200 = 22	9	C	LOOSE TO MEDIUM DENSE GRAY AND ORANGE CLAYEY FINE SAND (A-2-6, SC)
	7		

BORING TERMINATED AT ELEV. 34.7 FEET

BORE # OSW-2
REFERENCE SURVEY US 41
STATION 532+40
OFFSET 375 FEET RIGHT
ELEVATION 63.7 FEET
DATE 1/6/2025
DRILLER W. CHOMAT
HAMMER AUTOMATIC
RIG D-25

		B	MEDIUM DENSE GRAY SILTY FINE SAND (A-2-4, SM)
Wc = 5, -200 = 13	9*		
	9*	A	LOOSE TO MEDIUM DENSE GRAY FINE SAND (A-3, SP-SM)
	8*		
	7*		
	5*	B	LOOSE GRAY SILTY FINE SAND (A-2-4, SM)
Wc = 19, -200 = 28, PI = 21, LL = 31	10		
	9	C	MEDIUM DENSE GRAY CLAYEY FINE SAND (A-2-6, SC)
	20		
	11		
Wc = 23, -200 = 40	15	D	LOOSE TO MEDIUM DENSE GRAY CLAYEY SAND (A-6, SC)
	12		
	11		
	7		
	9		
Wc = 26, -200 = 27, PI = 18, LL = 39	7	C	LOOSE TO MEDIUM DENSE GRAY CLAYEY FINE SAND (A-2-6, SC)
	5		
	6		

BORING TERMINATED AT ELEV. 33.7 FEET

ELEVATION (FEET): 65, 60, 55, 50, 45, 40, 35, 30

REVISIONS				ENGINEER OF RECORD	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			REPORT OF STORMWATER BORINGS	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION	MATTHEW R. LANDSCHOOT, P.E. LICENSE NUMBER: 76183 ENVIRONMENTAL AND GEOTECHNICAL SPECIALISTS, INC. 3772 KORI ROAD JACKSONVILLE, FLORIDA 32257	ROAD NO.	COUNTY	FINANCIAL PROJECT ID		
					SR 25	COLUMBIA	445725-5-54-02		

THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.

APPENDIX B

SOIL BORING LOGS

ENVIRONMENTAL & GEOTECHNICAL SPECIALISTS, INC.
3772 Kori Road
Jacksonville, Florida 32257
Office: (904) 329-7180

PROJECT: SR 25 (US 41) STORMWATER MANAGEMENT
CLIENT: OSIRIS 9 CONSULTING, LLC
PROJECT NO.: 364-13-24-02
PROJECT LOCATION: COLUMBIA COUNTY, FLORIDA
BORING NO.: OSW-1
DRILLER: W. CHOMAT
DEPTH TO WATER (FEET): INITIAL: ▽ >16.0 **24 HR:** ▽ 19.0

HAMMER TYPE: AUTOMATIC
STATION: 533+02
OFFSET: 161 FEET RIGHT
ELEVATION (FEET): 64.7
DATE: 01/06/2025
FLUID LOSS: NONE
CASING DEPTH (FEET): N/A

DEPTH (METERS)	DEPTH (FEET)	SAMPLE	SYMBOL	DESCRIPTION	USCS/ AASHTO	TEST RESULTS	Wc (%)	N	N-Value
0	0			LOOSE GRAY SILTY FINE SAND	SM A-2-4		11	--	--
				STIFF GRAY HIGHLY PLASTIC SANDY CLAY	CH A-7-6	-200%=53 LL=91 PI=61	43	8	8
	2						77	8	8
1				MEDIUM DENSE GRAY CLAYEY SAND	SC A-6		23	9	9
	4			LOOSE GRAY FINE SAND	SP-SM A-3	-200%=10	4	7	7
							3	7	7
2	6			MEDIUM DENSE GRAY FINE SAND			6	14	14
	8			MEDIUM DENSE GRAY CLAYEY FINE SAND			13	21	21
3	10			DENSE GRAY CLAYEY FINE SAND	SC A-2-6		15	28	28
	12			VERY STIFF GRAY AND ORANGE HIGHLY PLASTIC SANDY CLAY		-200%=54 LL=55 PI=42	46	16	16
4	14								

Wc (%) axis: 10, 20, 30, 40, 60
N-Value axis: 10, 20, 30, 40, 60, 80

NOTES: N/M MEANS NOT MEASURED
N/A MEANS NOT AVAILABLE

This information pertains only to this boring and should not be interpreted as being indicitive of the site.

ENVIRONMENTAL & GEOTECHNICAL SPECIALISTS, INC.
3772 Kori Road
Jacksonville, Florida 32257
Office: (904) 329-7180

PROJECT: SR 25 (US 41) STORMWATER MANAGEMENT
CLIENT: OSIRIS 9 CONSULTING, LLC
PROJECT NO.: 364-13-24-02
PROJECT LOCATION: COLUMBIA COUNTY, FLORIDA
BORING NO.: OSW-1
DRILLER: W. CHOMAT
DEPTH TO WATER (FEET): INITIAL: ▽ >16.0 **24 HR:** ▽ 19.0

HAMMER TYPE: AUTOMATIC
STATION: 533+02
OFFSET: 161 FEET RIGHT
ELEVATION (FEET): 64.7
DATE: 01/06/2025
FLUID LOSS: NONE
CASING DEPTH (FEET): N/A

DEPTH (METERS)	DEPTH (FEET)	SAMPLE	SYMBOL	DESCRIPTION	USCS/ AASHTO	TEST RESULTS	Wc (%)	N	N-Value
				FIRM GRAY AND ORANGE HIGHLY PLASTIC SANDY CLAY	CH A-7-6		43	6	
5	16			STIFF GRAY AND ORANGE HIGHLY PLASTIC SANDY CLAY			28	9	
	18			LOOSE GRAY AND ORANGE PLASTIC CLAYEY SAND	SC A-7-6	-200%=36 LL=49 PI=29	31	4	
6	20						26	7	
	22								
7							27	8	
	24			MEDIUM DENSE GRAY AND ORANGE PLASTIC CLAYEY SAND			27	10	
8	26			MEDIUM DENSE GRAY AND ORANGE CLAYEY FINE SAND		-200%=22	27	9	
	28			LOOSE GRAY AND ORANGE	SC A-2-6		29	7	

Wc (%) axis: 10, 20, 30, 40, 60
N-Value axis: 10, 20, 30, 40, 60, 80

NOTES: N/M MEANS NOT MEASURED
N/A MEANS NOT AVAILABLE

This information pertains only to this boring and should not be interpreted as being indicitive of the site.

ENVIRONMENTAL & GEOTECHNICAL SPECIALISTS, INC.
3772 Kori Road
Jacksonville, Florida 32257
Office: (904) 329-7180

PROJECT: SR 25 (US 41) STORMWATER MANAGEMENT
CLIENT: OSIRIS 9 CONSULTING, LLC
PROJECT NO.: 364-13-24-02
PROJECT LOCATION: COLUMBIA COUNTY, FLORIDA
BORING NO.: OSW-1
DRILLER: W. CHOMAT
DEPTH TO WATER (FEET): INITIAL: ▽ >16.0 **24 HR:** ▽ 19.0

HAMMER TYPE: AUTOMATIC
STATION: 533+02
OFFSET: 161 FEET RIGHT
ELEVATION (FEET): 64.7
DATE: 01/06/2025
FLUID LOSS: NONE
CASING DEPTH (FEET): N/A

DEPTH (METERS)	DEPTH (FEET)	SAMPLE	SYMBOL	DESCRIPTION	USCS/ AASHTO	TEST RESULTS	Wc (%)	N	N-Value
9	30			CLAYEY FINE SAND					
10	32, 34								
11	36, 38								
12	40								
13	42								

Wc (%) scale: 10, 20, 30, 40, 60
N-Value scale: 10, 20, 30, 40, 60, 80

NOTES: N/M MEANS NOT MEASURED
N/A MEANS NOT AVAILABLE

This information pertains only to this boring and should not be interpreted as being indicitive of the site.

ENVIRONMENTAL & GEOTECHNICAL SPECIALISTS, INC.
3772 Kori Road
Jacksonville, Florida 32257
Office: (904) 329-7180

PROJECT: SR 25 (US 41) STORMWATER MANAGEMENT
CLIENT: OSIRIS 9 CONSULTING, LLC
PROJECT NO.: 364-13-24-02
PROJECT LOCATION: COLUMBIA COUNTY, FLORIDA
BORING NO.: OSW-2
DRILLER: W. CHOMAT
DEPTH TO WATER (FEET): INITIAL: ▽ >16.0 **24 HR:** ▽ 20.0

HAMMER TYPE: AUTOMATIC
STATION: 532+40
OFFSET: 375 FEET RIGHT
ELEVATION (FEET): 63.7
DATE: 01/06/2025
FLUID LOSS: NONE
CASING DEPTH (FEET): N/A

DEPTH (METERS)	DEPTH (FEET)	SAMPLE	SYMBOL	DESCRIPTION	USCS/ AASHTO	TEST RESULTS	Wc (%)	N	N-Value
0	0			MEDIUM DENSE GRAY SILTY FINE SAND	SM A-2-4	-200%=13	5 5	-- 9	
	2			MEDIUM DENSE GRAY FINE SAND	SP-SM A-3		2	9	
1							3	8	
	4			LOOSE GRAY FINE SAND			3	7	
				LOOSE GRAY SILTY FINE SAND	SM A-2-4		15	5	
2	6			MEDIUM DENSE GRAY CLAYEY FINE SAND	SC A-2-6	-200%=28 LL=31 PI=21	19	10	
	8						17	9	
3	10						21	20	
	12						18	11	
4	14								

Wc (%) scale: 10, 20, 30, 40, 60
N-Value scale: 10, 20, 30, 40, 60, 80

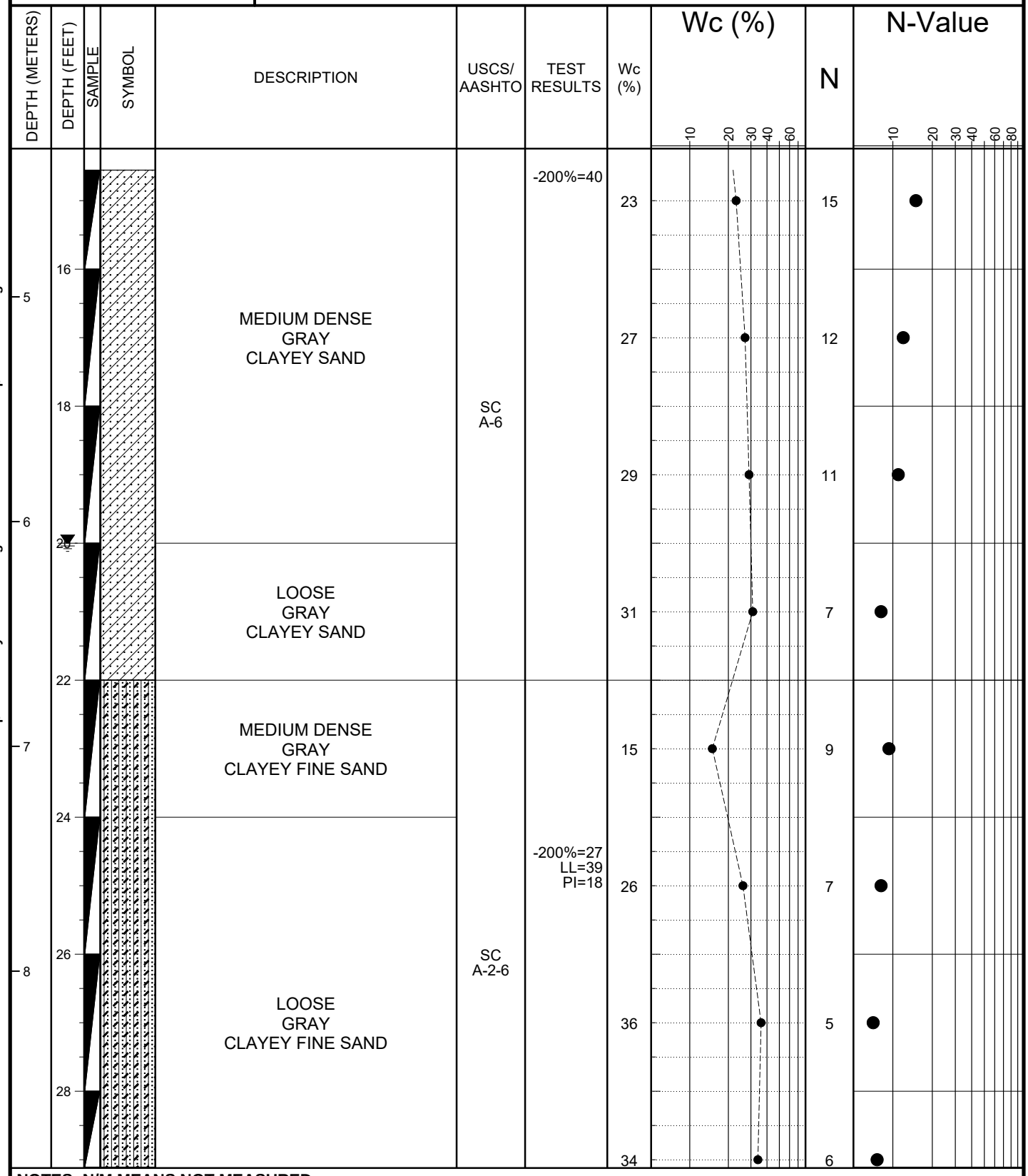
This information pertains only to this boring and should not be interpreted as being indicitive of the site.

NOTES: N/M MEANS NOT MEASURED
N/A MEANS NOT AVAILABLE

ENVIRONMENTAL & GEOTECHNICAL SPECIALISTS, INC.
3772 Kori Road
Jacksonville, Florida 32257
Office: (904) 329-7180

PROJECT: SR 25 (US 41) STORMWATER MANAGEMENT
CLIENT: OSIRIS 9 CONSULTING, LLC
PROJECT NO.: 364-13-24-02
PROJECT LOCATION: COLUMBIA COUNTY, FLORIDA
BORING NO.: OSW-2
DRILLER: W. CHOMAT
DEPTH TO WATER (FEET): INITIAL: ▽ >16.0 **24 HR:** ▽ 20.0

HAMMER TYPE: AUTOMATIC
STATION: 532+40
OFFSET: 375 FEET RIGHT
ELEVATION (FEET): 63.7
DATE: 01/06/2025
FLUID LOSS: NONE
CASING DEPTH (FEET): N/A



This information pertains only to this boring and should not be interpreted as being indicitive of the site.

NOTES: N/M MEANS NOT MEASURED
N/A MEANS NOT AVAILABLE

ENVIRONMENTAL & GEOTECHNICAL SPECIALISTS, INC.
3772 Kori Road
Jacksonville, Florida 32257
Office: (904) 329-7180

PROJECT: SR 25 (US 41) STORMWATER MANAGEMENT
CLIENT: OSIRIS 9 CONSULTING, LLC
PROJECT NO.: 364-13-24-02
PROJECT LOCATION: COLUMBIA COUNTY, FLORIDA
BORING NO.: OSW-2
DRILLER: W. CHOMAT
DEPTH TO WATER (FEET): INITIAL: ▽ >16.0 **24 HR:** ▽ 20.0

HAMMER TYPE: AUTOMATIC
STATION: 532+40
OFFSET: 375 FEET RIGHT
ELEVATION (FEET): 63.7
DATE: 01/06/2025
FLUID LOSS: NONE
CASING DEPTH (FEET): N/A

DEPTH (METERS)	DEPTH (FEET)	SAMPLE	SYMBOL	DESCRIPTION	USCS/ AASHTO	TEST RESULTS	Wc (%)	N	N-Value
9	30						10 20 30 40 60		10 20 30 40 60 80
10	32								
11	34								
12	36								
13	38								
	40								
	42								

NOTES: N/M MEANS NOT MEASURED
N/A MEANS NOT AVAILABLE

This information pertains only to this boring and should not be interpreted as being indicitive of the site.

APPENDIX C

SOIL CLASSIFICATION DATA

SOIL CLASSIFICATION DATA

Project: SR 25 (US 41) STORMWATER MANAGEMENT FACILITY

Client: OSIRIS 9 CONSULTING, LLC **Project No.: 364-13-24-02**

Boring: OSW-1 **Location: COLUMBIA COUNTY, FLORIDA**

DEPTH (FEET)	Wc (%)	-4 (%)	-10 (%)	-20 (%)	-40 (%)	-60 (%)	-100 (%)	-200 (%)	LL	PI	Org. (%)	N Value	USCS	AASHTO	Mat. No.	Description
0.0-0.5	11											--	SM	A-2-4	B	LOOSE GRAY SILTY FINE SAND
1.0-1.5	43	91	83	78	75	72	63	53	91	61		8	CH	A-7-6	E	STIFF GRAY HIGHLY PLASTIC SANDY CLAY
2.0-2.5	77											8	CH	A-7-6	E	STIFF GRAY HIGHLY PLASTIC SANDY CLAY
3.0-3.5	23											9	SC	A-6	D	MEDIUM DENSE GRAY CLAYEY SAND
4.0-4.5	4	100	100	99	95	79	39	10				7	SP-SM	A-3	A	LOOSE GRAY FINE SAND
5.0-5.5	3											7	SP-SM	A-3	A	LOOSE GRAY FINE SAND
6.0-8.0	6											14	SP-SM	A-3	A	MEDIUM DENSE GRAY FINE SAND
8.0-10.0	13											21	SC	A-2-6	C	MEDIUM DENSE GRAY CLAYEY FINE SAND
10.0-12.0	15											28	SC	A-2-6	C	DENSE GRAY CLAYEY FINE SAND
12.0-14.0	46	100	100	100	97	85	64	54	55	42		16	CH	A-7-6	E	VERY STIFF GRAY AND ORANGE HIGHLY PLASTIC SANDY CLAY
14.0-16.0	43											6	CH	A-7-6	E	FIRM GRAY AND ORANGE HIGHLY PLASTIC SANDY CLAY
16.0-18.0	28											9	CH	A-7-6	E	STIFF GRAY AND ORANGE HIGHLY PLASTIC SANDY CLAY
18.0-20.0	31	100	100	100	99	86	48	36	49	29		4	SC	A-7-6	D	LOOSE GRAY AND ORANGE

SOIL CLASSIFICATION DATA

Project: SR 25 (US 41) STORMWATER MANAGEMENT FACILITY

Client: OSIRIS 9 CONSULTING, LLC **Project No.: 364-13-24-02**

Boring: OSW-1 **Location: COLUMBIA COUNTY, FLORIDA**

DEPTH (FEET)	Wc (%)	-4 (%)	-10 (%)	-20 (%)	-40 (%)	-60 (%)	-100 (%)	-200 (%)	LL	PI	Org. (%)	N Value	USCS	AASHTO	Mat. No.	Description
																PLASTIC CLAYEY SAND
20.0-22.0	26											7	SC	A-7-6	D	LOOSE GRAY AND ORANGE PLASTIC CLAYEY SAND
22.0-24.0	27											8	SC	A-7-6	D	LOOSE GRAY AND ORANGE PLASTIC CLAYEY SAND
24.0-26.0	27											10	SC	A-7-6	D	MEDIUM DENSE GRAY AND ORANGE PLASTIC CLAYEY SAND
26.0-28.0	27	100	99	99	98	89	41	22				9	SC	A-2-6	C	MEDIUM DENSE GRAY AND ORANGE CLAYEY FINE SAND
28.0-30.0	29											7	SC	A-2-6	C	LOOSE GRAY AND ORANGE CLAYEY FINE SAND

SOIL CLASSIFICATION DATA

Project: SR 25 (US 41) STORMWATER MANAGEMENT FACILITY

Client: OSIRIS 9 CONSULTING, LLC **Project No.: 364-13-24-02**

Boring: OSW-2 **Location: COLUMBIA COUNTY, FLORIDA**

DEPTH (FEET)	Wc (%)	-4 (%)	-10 (%)	-20 (%)	-40 (%)	-60 (%)	-100 (%)	-200 (%)	LL	PI	Org. (%)	N Value	USCS	AASHTO	Mat. No.	Description
0.0-0.5	5											--	SM	A-2-4	B	MEDIUM DENSE GRAY SILTY FINE SAND
1.0-1.5	5	100	100	99	96	84	47	13				9	SM	A-2-4	B	MEDIUM DENSE GRAY SILTY FINE SAND
2.0-2.5	2											9	SP-SM	A-3	A	MEDIUM DENSE GRAY FINE SAND
3.0-3.5	3											8	SP-SM	A-3	A	LOOSE GRAY FINE SAND
4.0-4.5	3											7	SP-SM	A-3	A	LOOSE GRAY FINE SAND
5.0-5.5	15											5	SM	A-2-4	B	LOOSE GRAY SILTY FINE SAND
6.0-8.0	19	100	100	99	96	84	56	28	31	21		10	SC	A-2-6	C	MEDIUM DENSE GRAY CLAYEY FINE SAND
8.0-10.0	17											9	SC	A-2-6	C	MEDIUM DENSE GRAY CLAYEY FINE SAND
10.0-12.0	21											20	SC	A-2-6	C	MEDIUM DENSE GRAY CLAYEY FINE SAND
12.0-14.0	18											11	SC	A-2-6	C	MEDIUM DENSE GRAY CLAYEY FINE SAND
14.0-16.0	23	100	100	100	98	89	63	40				15	SC	A-6	D	MEDIUM DENSE GRAY CLAYEY SAND
16.0-18.0	27											12	SC	A-6	D	MEDIUM DENSE GRAY CLAYEY SAND
18.0-20.0	29											11	SC	A-6	D	MEDIUM DENSE GRAY

SOIL CLASSIFICATION DATA

Project: SR 25 (US 41) STORMWATER MANAGEMENT FACILITY

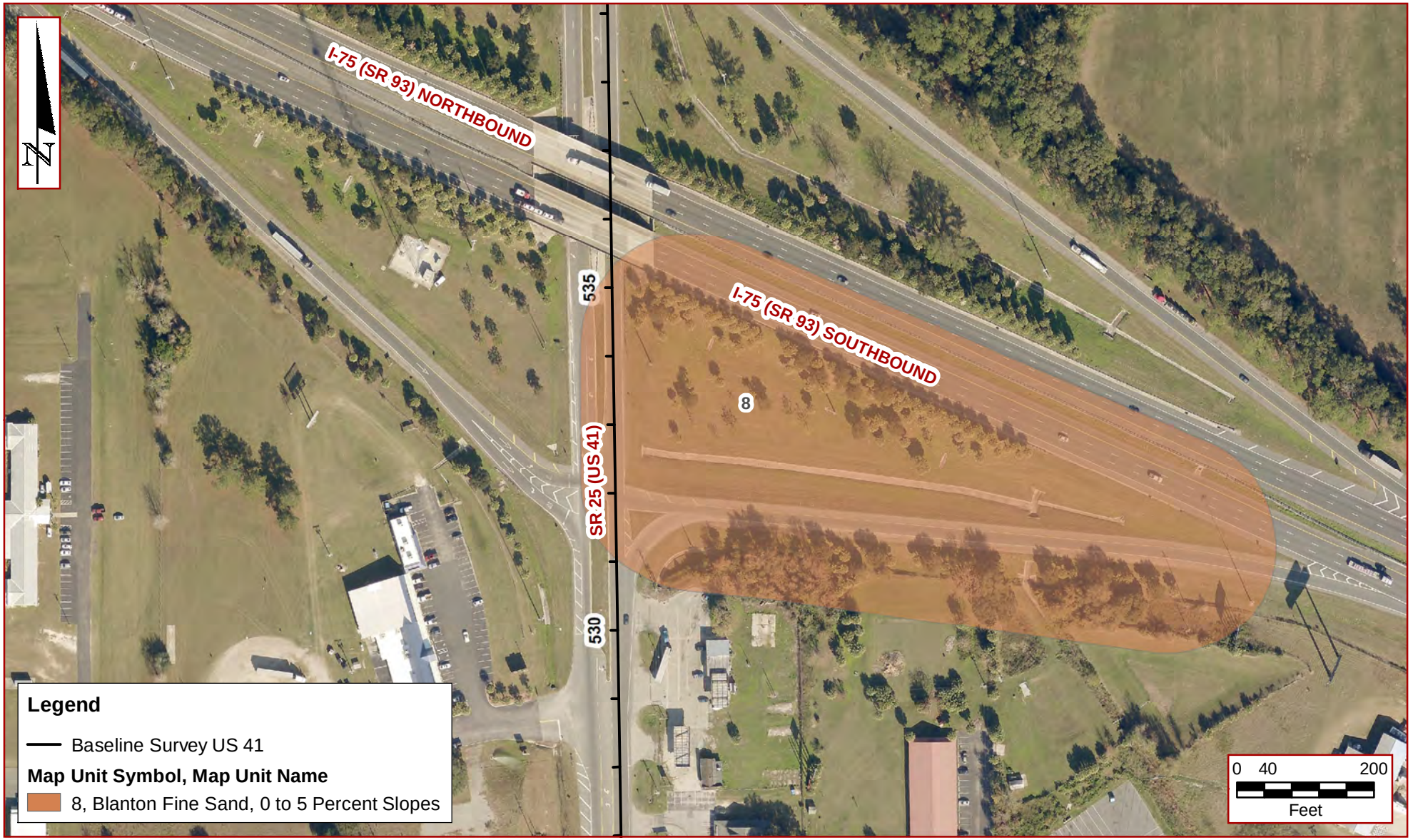
Client: OSIRIS 9 CONSULTING, LLC **Project No.: 364-13-24-02**

Boring: OSW-2 **Location: COLUMBIA COUNTY, FLORIDA**

DEPTH (FEET)	Wc (%)	-4 (%)	-10 (%)	-20 (%)	-40 (%)	-60 (%)	-100 (%)	-200 (%)	LL	PI	Org. (%)	N Value	USCS	AASHTO	Mat. No.	Description
																CLAYEY SAND
20.0-22.0	31											7	SC	A-6	D	LOOSE GRAY CLAYEY SAND
22.0-24.0	15											9	SC	A-2-6	C	MEDIUM DENSE GRAY CLAYEY FINE SAND
24.0-26.0	26	100	100	99	99	89	47	27	39	18		7	SC	A-2-6	C	LOOSE GRAY CLAYEY FINE SAND
26.0-28.0	36											5	SC	A-2-6	C	LOOSE GRAY CLAYEY FINE SAND
28.0-30.0	34											6	SC	A-2-6	C	LOOSE GRAY CLAYEY FINE SAND

APPENDIX D

NRCS SOIL SURVEY



DRAWN: A. CRAIG, E.I.	CHECKED: I. CAPORINI, E.I.	Environmental and Geotechnical Specialists, Inc. 3772 Kori Road Jacksonville, Florida 32257 Office: (904) 329-7180	TITLE: NRCS SOIL SURVEY MAP STORMWATER MANAGEMENT FACILITY I-75 (SR 93) AT SR 25 (US 41) COLUMBIA COUNTY, FLORIDA
ENGINEER: M. LANDSCHOOT, P.E.			
CLIENT: OSIRIS 9 CONSULTING, LLC			
PROJ. NO.: 364-13-24-02	SCALE: AS SHOWN		DATE: FEBRUARY 2025 / FIGURE NO.: D1

Chemical Soil Properties–Columbia County, Florida								
Map symbol and soil name	**Depth**	**Cation-exchange capacity**	**Effective cation-exchange capacity**	**Soil reaction**	**Calcium carbonate**	**Gypsum**	**Salinity**	**Sodium adsorption ratio**
	In	*meq/100g*	*meq/100g*	*pH*	*Pct*	*Pct*	*mmhos/cm*	
8—Blanton fine sand, 0 to 5 percent slopes								
Blanton	0-7	—	0.2-0.9	4.5-5.5	0	0	0.0-2.0	0-4
	7-52	—	0.0-1.6	4.5-5.5	0	0	0.0-2.0	0-4
	52-80	—	2.3-7.2	4.5-5.5	0	0	0.0-2.0	0-4

Engineering Properties–Columbia County, Florida														
Map unit symbol and soil name	**Pct. of map unit**	**Hydrologic group**	**Depth**	**USDA texture**	**Classification**		**Pct Fragments**		**Percentage passing sieve number—**				**Liquid limit**	**Plasticity index**
					Unified	**AASHTO**	**>10 inches**	**3-10 inches**	**4**	**10**	**40**	**200**		
			In				*L-R-H*	*L-R-H*	*L-R-H*	*L-R-H*	*L-R-H*	*L-R-H*	*L-R-H*	*L-R-H*
8—Blanton fine sand, 0 to 5 percent slopes														
Blanton	85	A	0-7	Fine sand	SM, SP-SM	A-2-4, A-3	0- 0- 0	0- 0- 0	100-100-100	89-94-100	79-91-100	10-20-25	0-0 -23	NP-0 -2
			7-52	Fine sand	SM, SP-SM	A-2-4, A-3	0- 0- 0	0- 0- 0	100-100-100	89-95-100	76-91-100	10-21-25	0-0 -17	NP-0 -2
			52-80	Fine sandy loam, sandy clay loam, sandy loam	SC-SM, SC, CL	A-2-4, A-6	0- 0- 0	0- 0- 0	100-100-100	95-96-100	80-94-100	27-37-60	22-29-39	7-12-21

Physical Soil Properties–Columbia County, Florida														
Map symbol and soil name	**Depth**	**Sand**	**Silt**	**Clay**	**Moist bulk density**	**Saturated hydraulic conductivity**	**Available water capacity**	**Linear extensibility**	**Organic matter**	**Erosion factors**			**Wind erodibility group**	**Wind erodibility index**
										Kw	**Kf**	**T**		
	In	*Pct*	*Pct*	*Pct*	*g/cc*	*micro m/sec*	*In/In*	*Pct*	*Pct*					
8—Blanton fine sand, 0 to 5 percent slopes														
Blanton	0-7	90-96- 99	0- 3- 5	1- 2- 5	1.48-1.52	42.34-141.14	0.03-0.07	0.1-0.3	0.5-3.0	.15	.15	5	1	250
	7-52	90-95- 99	0- 4- 5	1- 1- 5	1.56-1.59	42.34-141.14	0.03-0.07	0.0-0.4	0.0-0.5	.17	.17			
	52-80	50-76- 85	0- 6- 35	12-19- 34	1.60-1.64	1.41-42.34	0.10-0.15	0.6-1.6	0.0-0.5	.24	.24			

Soil Features–Columbia County, Florida									
Map symbol and soil name	**Restrictive Layer**				**Subsidence**		**Potential for frost action**	**Risk of corrosion**	
	Kind	**Depth to top**	**Thickness**	**Hardness**	**Initial**	**Total**		**Uncoated steel**	**Concrete**
		Low-RV-High	*Range*		*Low-High*	*Low-High*			
		In	*In*		*In*	*In*			
8—Blanton fine sand, 0 to 5 percent slopes									
Blanton		—	—		0	0	None	Low	High

Map unit symbol and soil name	Hydrologic group	Surface runoff	Most likely months	Water table			Ponding			Flooding	
				Upper limit	Lower limit	Kind	Surface depth	Duration	Frequency	Duration	Frequency
				Ft	*Ft*		*Ft*				
8—Blanton fine sand, 0 to 5 percent slopes											
Blanton	A	Negligible	Jan-Feb	—	—	—	—	—	None	—	None
			Mar-Nov	3.5-6.0	6.0	Apparent	—	—	None	—	None
			Dec	—	—	—	—	—	None	—	None

APPENDIX E

PERMEABILITY DATA

GRAIN-SIZE DISTRIBUTION CURVES

STRATUM A

MECHANICAL GRAIN-SIZE ANALYSIS
(ASTM D1140-54)

TEST INFORMATION:

PROJECT NO.: 364-13-24-02 **DATE:** 2/7/2025

BORING NO.: OSW-1 **DEPTH:** 4.0 - 4.5 (FEET)

SOIL DESCRIPTION: GRAY FINE SAND
SP-SM / A-3 / STRATUM A

TEST RESULTS:

Sieve No.	Diameter (Millimeters)	Percent Passing (%)
4	4.750	100
10	2.000	100
20	0.850	99
40	0.425	95
60	0.250	79
100	0.150	39
200	0.075	10

NOTE: THE FOLLOWING VALUES ARE ESTIMATED FROM THE GRAIN-SIZE DATA

D_{10} = 0.075 mm

D_{50} = 0.18 mm

D_{60} = 0.20 mm

K = 0.0056 (cm/sec)

8.0 (in/hr)

C_u = 2.7

Where:
***** = Extrapolated Value
K = Permeability Rate
Cu = Coefficient Of Uniformity

MECHANICAL GRAIN-SIZE ANALYSIS
(ASTM D1140-54)

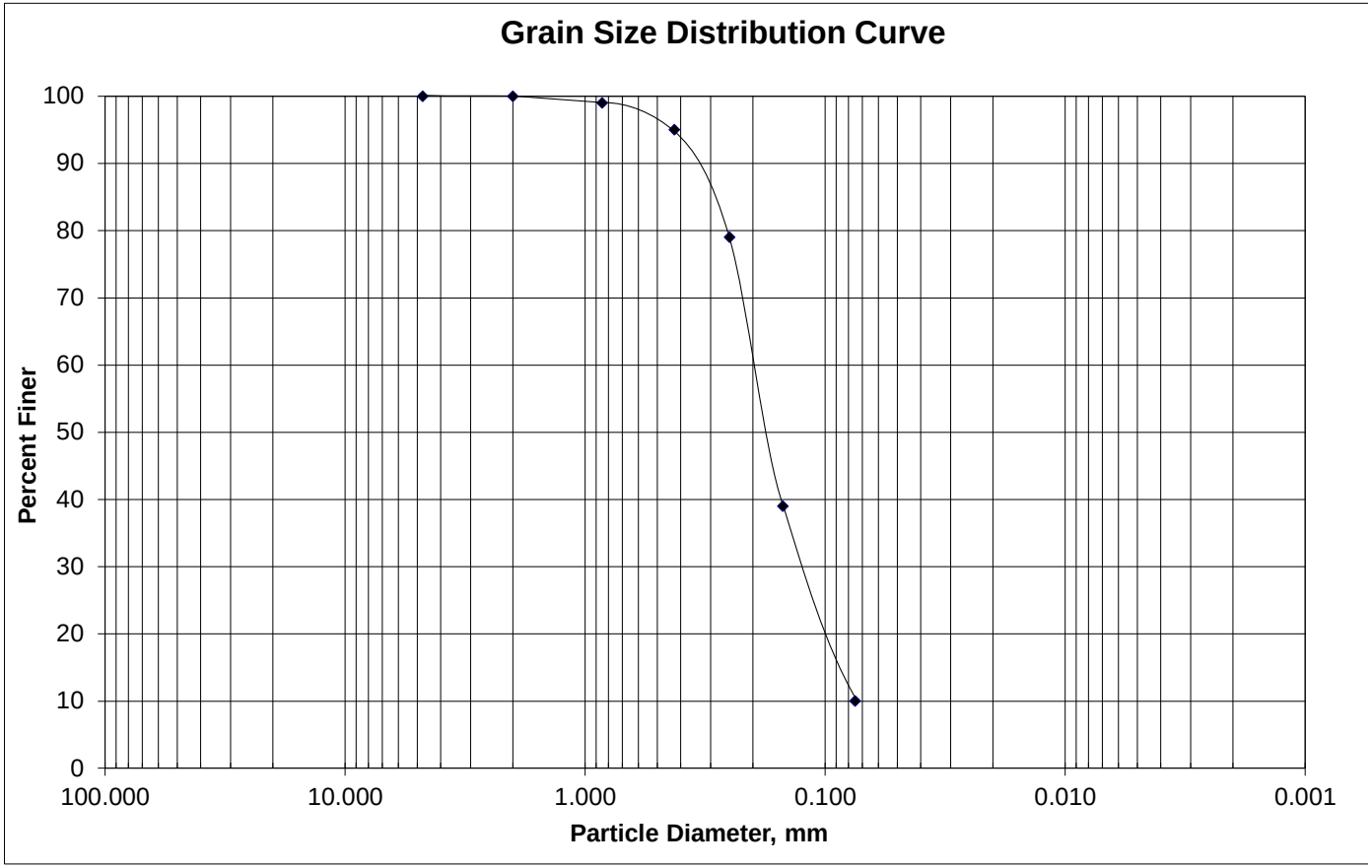
TEST INFORMATION:

PROJECT NO.: 364-13-24-02 **DATE:** 2/7/2025

BORING NO.: OSW-1 **DEPTH:** 4.0 - 4.5 (FEET)

SOIL DESCRIPTION: GRAY FINE SAND
SP-SM / A-3 / STRATUM A

GRAPHICAL REPRESENTATION OF TEST RESULTS



STRATUM B

MECHANICAL GRAIN-SIZE ANALYSIS
(ASTM D1140-54)

TEST INFORMATION:

PROJECT NO.: 364-13-24-02 **DATE:** 2/7/2025

BORING NO.: OSW-2 **DEPTH:** 1.0 - 1.5 (FEET)

SOIL DESCRIPTION: GRAY SILTY FINE SAND
SM / A-2-4 / STRATUM B

TEST RESULTS:

Sieve No.	Diameter (Millimeters)	Percent Passing (%)
4	4.750	100
10	2.000	100
20	0.850	99
40	0.425	96
60	0.250	84
100	0.150	47
200	0.075	13

NOTE: THE FOLLOWING VALUES ARE ESTIMATED FROM THE GRAIN-SIZE DATA

D_{10} = 0.065* mm

D_{50} = 0.16 mm

D_{60} = 0.18 mm

K = 0.0042 (cm/sec)

6.0 (in/hr)

C_u = 2.8

Where:
***** = Extrapolated Value
K = Permeability Rate
Cu = Coefficient Of Uniformity

MECHANICAL GRAIN-SIZE ANALYSIS
(ASTM D1140-54)

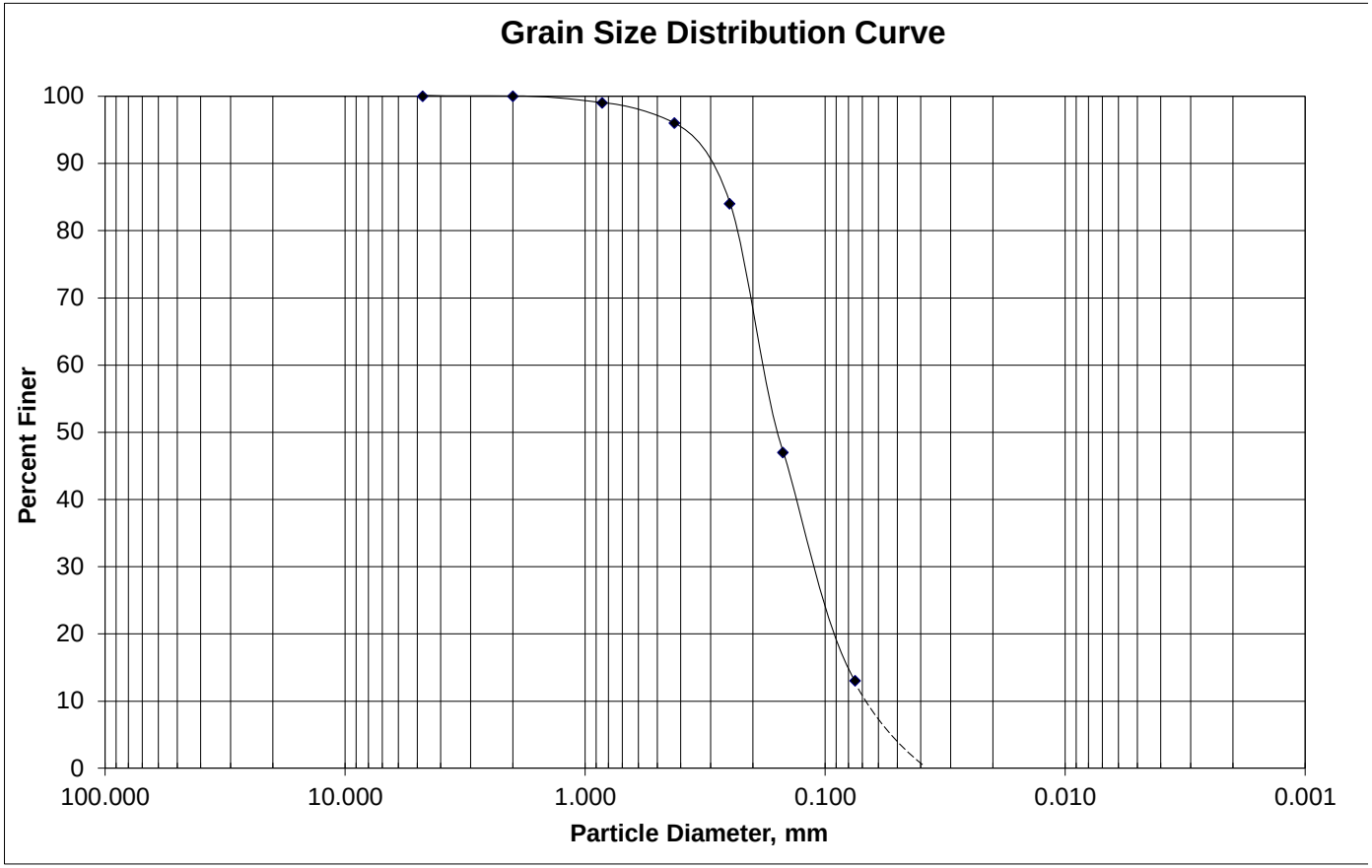
TEST INFORMATION:

PROJECT NO.: 364-13-24-02 **DATE:** 2/7/2025

BORING NO.: OSW-2 **DEPTH:** 1.0 - 1.5 (FEET)

SOIL DESCRIPTION: GRAY SILTY FINE SAND
SM / A-2-4 / STRATUM B

GRAPHICAL REPRESENTATION OF TEST RESULTS



ENVIRONMENTAL AND GEOTECHNICAL SPECIALISTS, INC.

STRATUM C

MECHANICAL GRAIN-SIZE ANALYSIS
(ASTM D1140-54)

TEST INFORMATION:

PROJECT NO.: 364-13-24-02 **DATE:** 2/7/2025

BORING NO.: OSW-1 **DEPTH:** 26.0 - 28.0 (FEET)

SOIL DESCRIPTION: GRAY AND ORANGE CLAYEY FINE SAND
SC / A-2-6 / STRATUM C

TEST RESULTS:

Sieve No.	Diameter (Millimeters)	Percent Passing (%)
4	4.750	100
10	2.000	99
20	0.850	99
40	0.425	98
60	0.250	89
100	0.150	41
200	0.075	22

NOTE: THE FOLLOWING VALUES ARE ESTIMATED FROM THE GRAIN-SIZE DATA

D_{10} = 0.025* mm

D_{50} = 0.17 mm

D_{60} = 0.19 mm

K = 0.0006 (cm/sec)

0.9 (in/hr)

C_u = 7.6

Where:
***** = Extrapolated Value
K = Permeability Rate
Cu = Coefficient Of Uniformity

MECHANICAL GRAIN-SIZE ANALYSIS
(ASTM D1140-54)

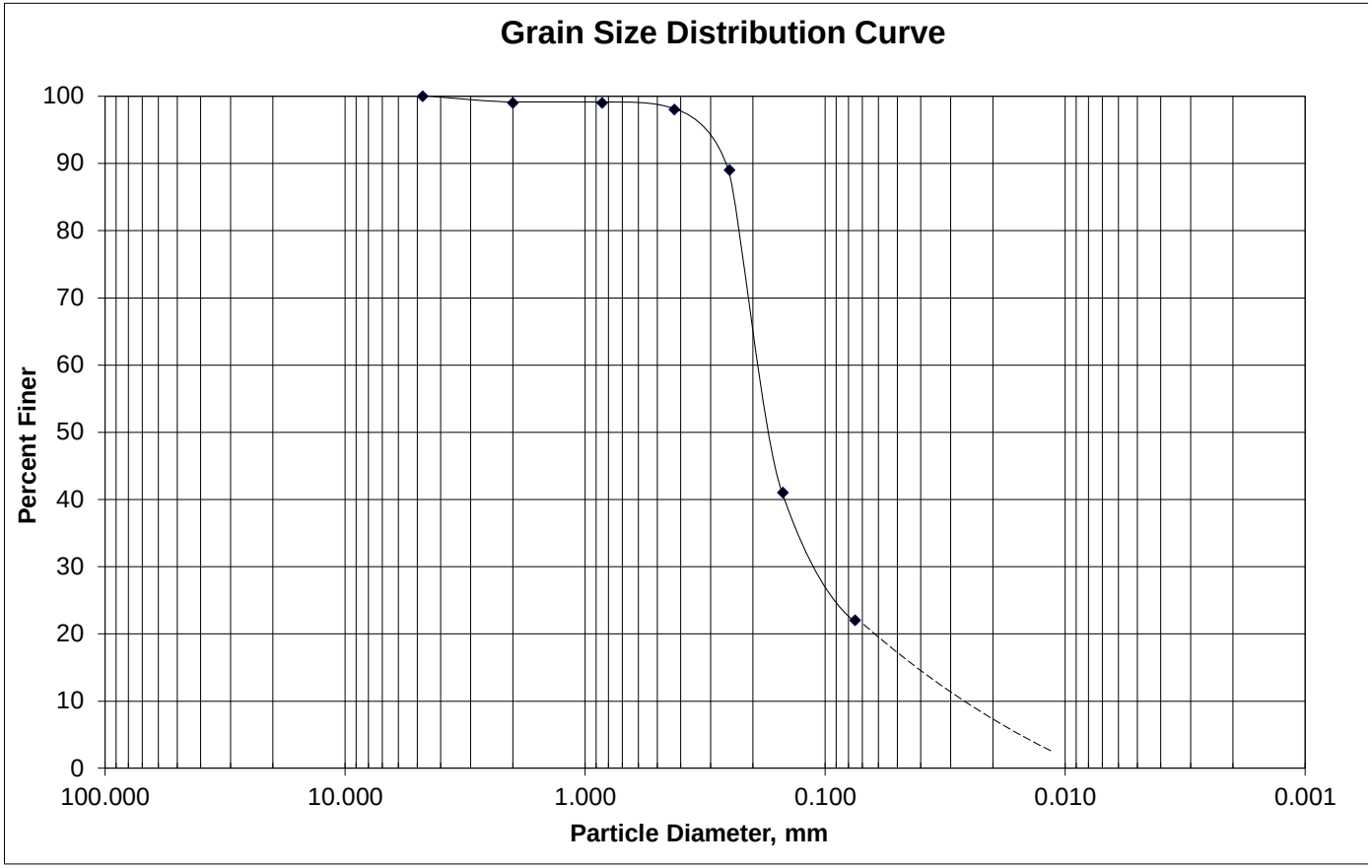
TEST INFORMATION:

PROJECT NO.: 364-13-24-02 **DATE:** 2/7/2025

BORING NO.: OSW-1 **DEPTH:** 26.0 - 28.0 (FEET)

SOIL DESCRIPTION: GRAY AND ORANGE CLAYEY FINE SAND
SC / A-2-6 / STRATUM C

GRAPHICAL REPRESENTATION OF TEST RESULTS



MECHANICAL GRAIN-SIZE ANALYSIS
(ASTM D1140-54)

TEST INFORMATION:

PROJECT NO.: 364-13-24-02 **DATE:** 2/7/2025

BORING NO.: OSW-2 **DEPTH:** 6.0 - 8.0 (FEET)

SOIL DESCRIPTION: GRAY CLAYEY FINE SAND
SC / A-2-6 / STRATUM C

TEST RESULTS:

Sieve No.	Diameter (Millimeters)	Percent Passing (%)
4	4.750	100
10	2.000	100
20	0.850	99
40	0.425	96
60	0.250	84
100	0.150	56
200	0.075	28

NOTE: THE FOLLOWING VALUES ARE ESTIMATED FROM THE GRAIN-SIZE DATA

D_{10} = 0.03* mm

D_{50} = 0.14 mm

D_{60} = 0.16 mm

K = 0.0009 (cm/sec)

1.3 (in/hr)

C_u = 5.3

Where:
***** = Extrapolated Value
K = Permeability Rate
Cu = Coefficient Of Uniformity

MECHANICAL GRAIN-SIZE ANALYSIS
(ASTM D1140-54)

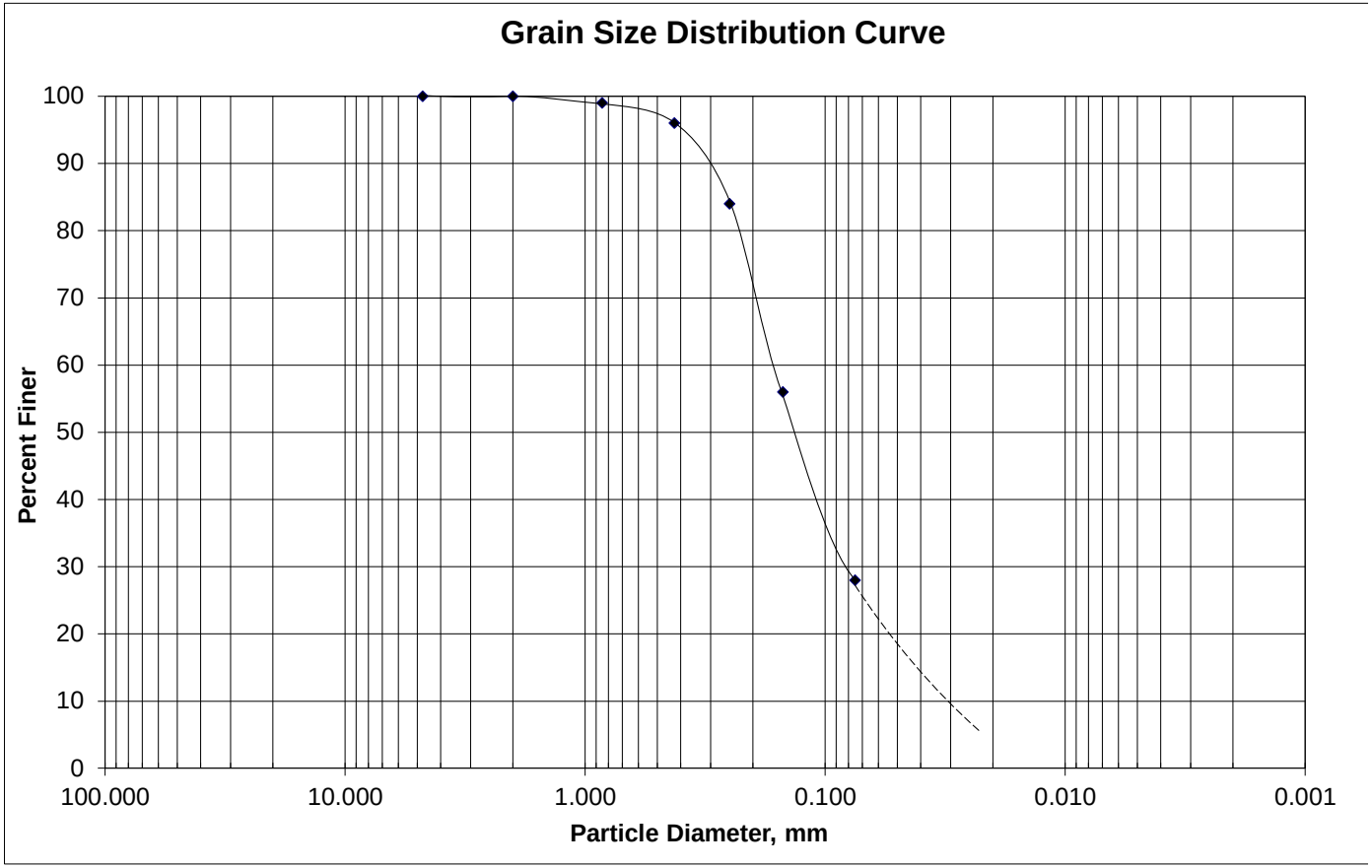
TEST INFORMATION:

PROJECT NO.: 364-13-24-02 **DATE:** 2/7/2025

BORING NO.: OSW-2 **DEPTH:** 6.0 - 8.0 (FEET)

SOIL DESCRIPTION: GRAY CLAYEY FINE SAND
SC / A-2-6 / STRATUM C

GRAPHICAL REPRESENTATION OF TEST RESULTS



MECHANICAL GRAIN-SIZE ANALYSIS
(ASTM D1140-54)

TEST INFORMATION:

PROJECT NO.: 364-13-24-02 **DATE:** 2/7/2025

BORING NO.: OSW-2 **DEPTH:** 24.0 - 26.0 (FEET)

SOIL DESCRIPTION: GRAY CLAYEY FINE SAND
SC / A-2-6 / STRATUM C

TEST RESULTS:

Sieve No.	Diameter (Millimeters)	Percent Passing (%)
4	4.750	100
10	2.000	100
20	0.850	99
40	0.425	99
60	0.250	89
100	0.150	47
200	0.075	27

NOTE: THE FOLLOWING VALUES ARE ESTIMATED FROM THE GRAIN-SIZE DATA

D_{10} = 0.03* mm

D_{50} = 0.16 mm

D_{60} = 0.18 mm

K = 0.0009 (cm/sec)

1.3 (in/hr)

C_u = 6.0

Where:
***** = Extrapolated Value
K = Permeability Rate
Cu = Coefficient Of Uniformity

MECHANICAL GRAIN-SIZE ANALYSIS
(ASTM D1140-54)

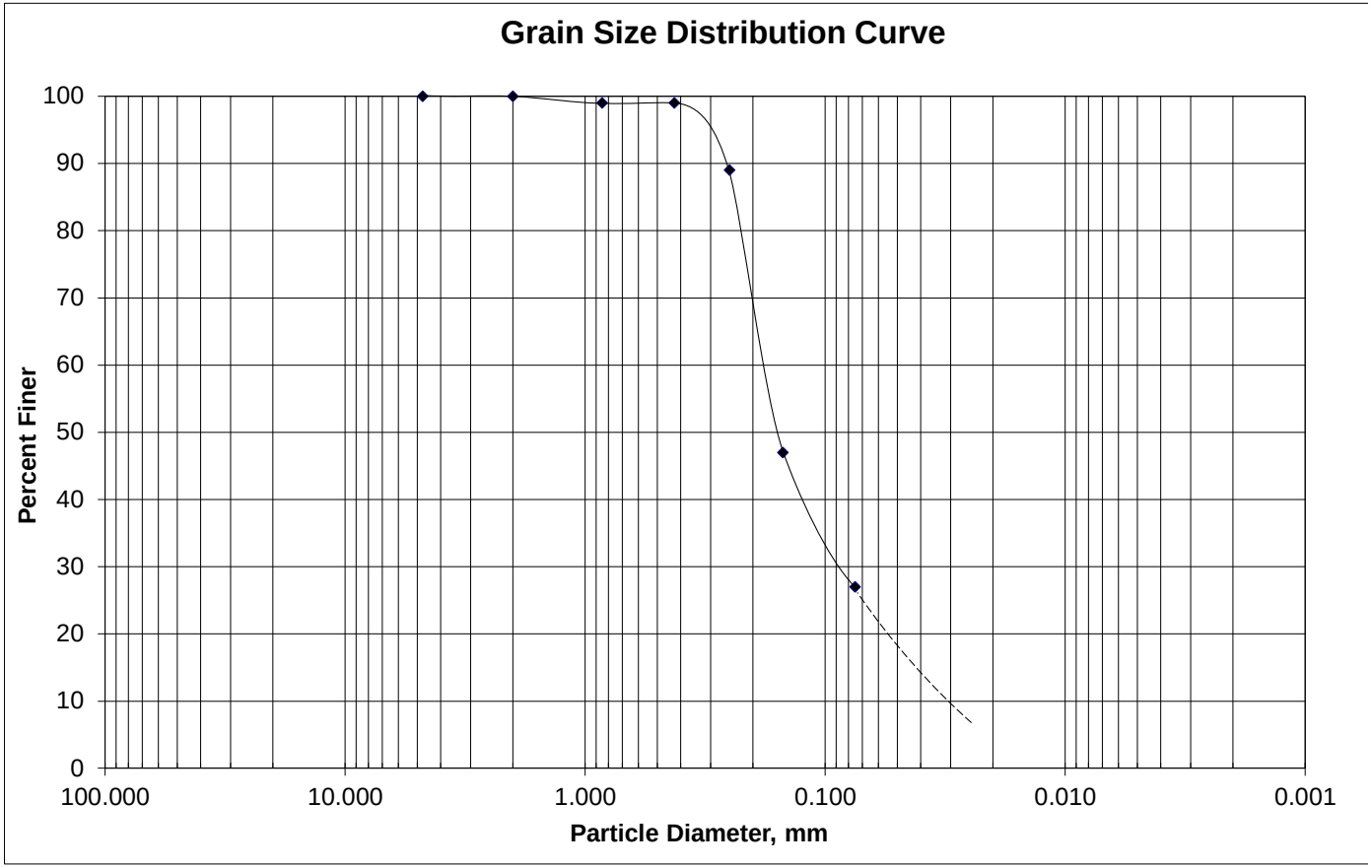
TEST INFORMATION:

PROJECT NO.: 364-13-24-02 **DATE:** 2/7/2025

BORING NO.: OSW-2 **DEPTH:** 24.0 - 26.0 (FEET)

SOIL DESCRIPTION: GRAY CLAYEY FINE SAND
SC / A-2-6 / STRATUM C

GRAPHICAL REPRESENTATION OF TEST RESULTS



STRATUM D

MECHANICAL GRAIN-SIZE ANALYSIS
(ASTM D1140-54)

TEST INFORMATION:

PROJECT NO.: 364-13-24-02 **DATE:** 2/7/2025

BORING NO.: OSW-1 **DEPTH:** 18.0 - 20.0 (FEET)

SOIL DESCRIPTION: GRAY AND ORANGE PLASTIC CLAYEY SAND
SC / A-7-6 / STRATUM D

TEST RESULTS:

Sieve No.	Diameter (Millimeters)	Percent Passing (%)
4	4.750	100
10	2.000	100
20	0.850	100
40	0.425	99
60	0.250	86
100	0.150	48
200	0.075	36

NOTE: THE FOLLOWING VALUES ARE ESTIMATED FROM THE GRAIN-SIZE DATA

D_{10} = N/A mm

D_{50} = 0.16 mm

D_{60} = 0.18 mm

K = N/A (cm/sec)

N/A (in/hr)

C_u = N/A

Where:
N/A = Not Available
***** = Extrapolated Value
K = Permeability Rate
Cu = Coefficient Of Uniformity

MECHANICAL GRAIN-SIZE ANALYSIS
(ASTM D1140-54)

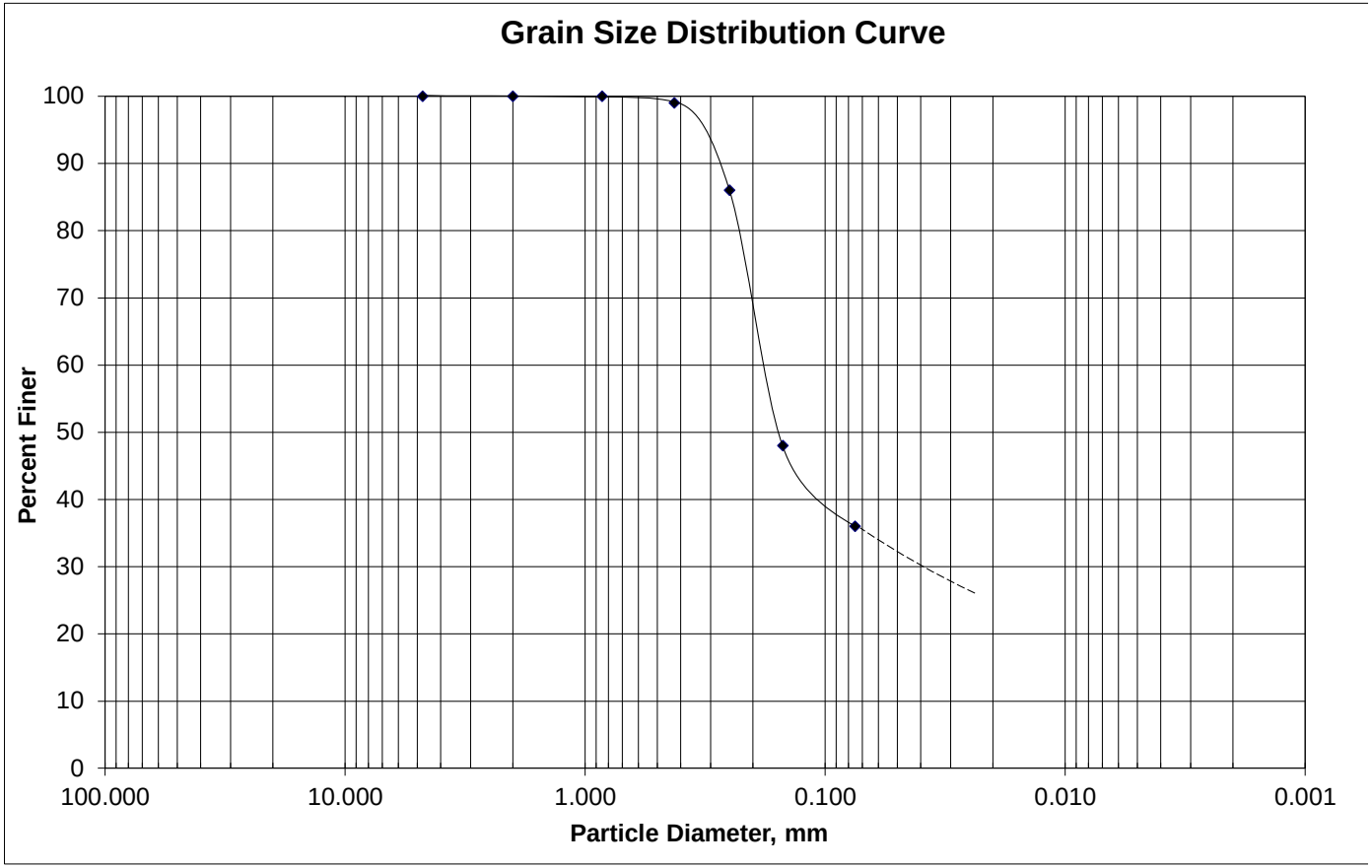
TEST INFORMATION:

PROJECT NO.: 364-13-24-02 **DATE:** 2/7/2025

BORING NO.: OSW-1 **DEPTH:** 18.0 - 20.0 (FEET)

SOIL DESCRIPTION: GRAY AND ORANGE PLASTIC CLAYEY SAND
SC / A-7-6 / STRATUM D

GRAPHICAL REPRESENTATION OF TEST RESULTS



MECHANICAL GRAIN-SIZE ANALYSIS
(ASTM D1140-54)

TEST INFORMATION:

PROJECT NO.: 364-13-24-02 **DATE:** 2/7/2025

BORING NO.: OSW-2 **DEPTH:** 14.0 - 16.0 (FEET)

SOIL DESCRIPTION: GRAY CLAYEY SAND
SC / A-6 / STRATUM D

TEST RESULTS:

Sieve No.	Diameter (Millimeters)	Percent Passing (%)
4	4.750	100
10	2.000	100
20	0.850	100
40	0.425	98
60	0.250	89
100	0.150	63
200	0.075	40

NOTE: THE FOLLOWING VALUES ARE ESTIMATED FROM THE GRAIN-SIZE DATA

D_{10} = N/A mm

D_{50} = 0.11 mm

D_{60} = 0.14 mm

K = N/A (cm/sec)

N/A (in/hr)

C_u = N/A

Where:
N/A = Not Available
***** = Extrapolated Value
K = Permeability Rate
Cu = Coefficient Of Uniformity

MECHANICAL GRAIN-SIZE ANALYSIS
(ASTM D1140-54)

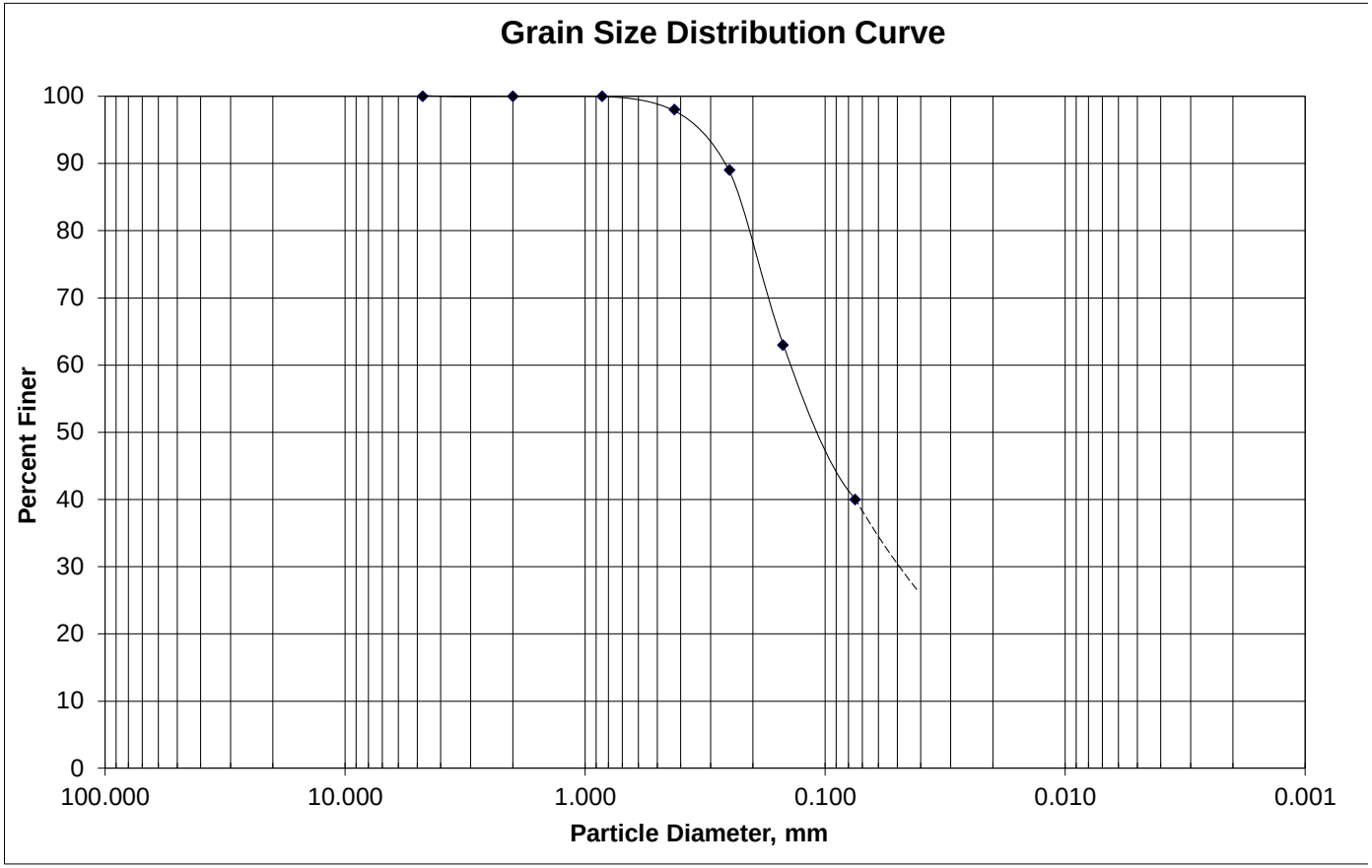
TEST INFORMATION:

PROJECT NO.: 364-13-24-02 **DATE:** 2/7/2025

BORING NO.: OSW-2 **DEPTH:** 14.0 - 16.0 (FEET)

SOIL DESCRIPTION: GRAY CLAYEY SAND
SC / A-6 / STRATUM D

GRAPHICAL REPRESENTATION OF TEST RESULTS



STRATUM E

MECHANICAL GRAIN-SIZE ANALYSIS
(ASTM D1140-54)

TEST INFORMATION:

PROJECT NO.: 364-13-24-02 **DATE:** 2/7/2025

BORING NO.: OSW-1 **DEPTH:** 1.0 - 1.5 (FEET)

SOIL DESCRIPTION: GRAY HIGHLY PLASTIC SANDY CLAY
CH / A-7-6 / STRATUM E

TEST RESULTS:

Sieve No.	Diameter (Millimeters)	Percent Passing (%)
4	4.750	91
10	2.000	83
20	0.850	78
40	0.425	75
60	0.250	72
100	0.150	63
200	0.075	53

NOTE: THE FOLLOWING VALUES ARE ESTIMATED FROM THE GRAIN-SIZE DATA

D_{10} = N/A mm

D_{50} = 0.06* mm

D_{60} = 0.13 mm

K = N/A (cm/sec)

N/A (in/hr)

C_u = N/A

Where:
N/A = Not Available
***** = Extrapolated Value
K = Permeability Rate
Cu = Coefficient Of Uniformity

MECHANICAL GRAIN-SIZE ANALYSIS
(ASTM D1140-54)

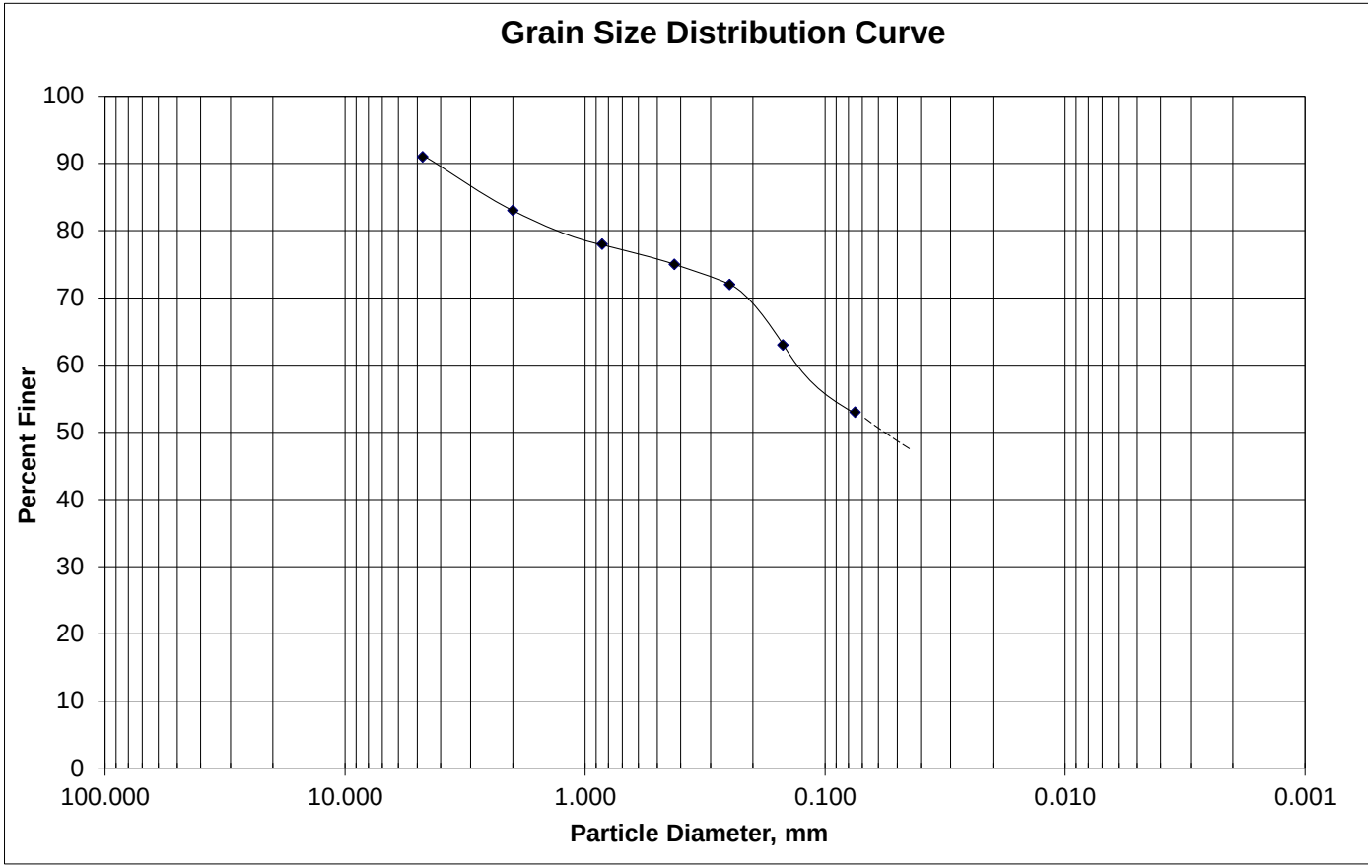
TEST INFORMATION:

PROJECT NO.: 364-13-24-02 **DATE:** 2/7/2025

BORING NO.: OSW-1 **DEPTH:** 1.0 - 1.5 (FEET)

SOIL DESCRIPTION: GRAY HIGHLY PLASTIC SANDY CLAY
CH / A-7-6 / STRATUM E

GRAPHICAL REPRESENTATION OF TEST RESULTS



MECHANICAL GRAIN-SIZE ANALYSIS
(ASTM D1140-54)

TEST INFORMATION:

PROJECT NO.: 364-13-24-02 **DATE:** 2/7/2025

BORING NO.: OSW-1 **DEPTH:** 12.0 - 14.0 (FEET)

SOIL DESCRIPTION: GRAY AND ORANGE HIGHLY PLASTIC SANDY CLAY
CH / A-7-6 / STRATUM E

TEST RESULTS:

Sieve No.	Diameter (Millimeters)	Percent Passing (%)
4	4.750	100
10	2.000	100
20	0.850	100
40	0.425	97
60	0.250	85
100	0.150	64
200	0.075	54

NOTE: THE FOLLOWING VALUES ARE ESTIMATED FROM THE GRAIN-SIZE DATA

D_{10} = N/A mm

D_{50} = 0.035* mm

D_{60} = 0.13 mm

K = N/A (cm/sec)

N/A (in/hr)

C_u = N/A

Where:
N/A = Not Available
***** = Extrapolated Value
K = Permeability Rate
Cu = Coefficient Of Uniformity

MECHANICAL GRAIN-SIZE ANALYSIS
(ASTM D1140-54)

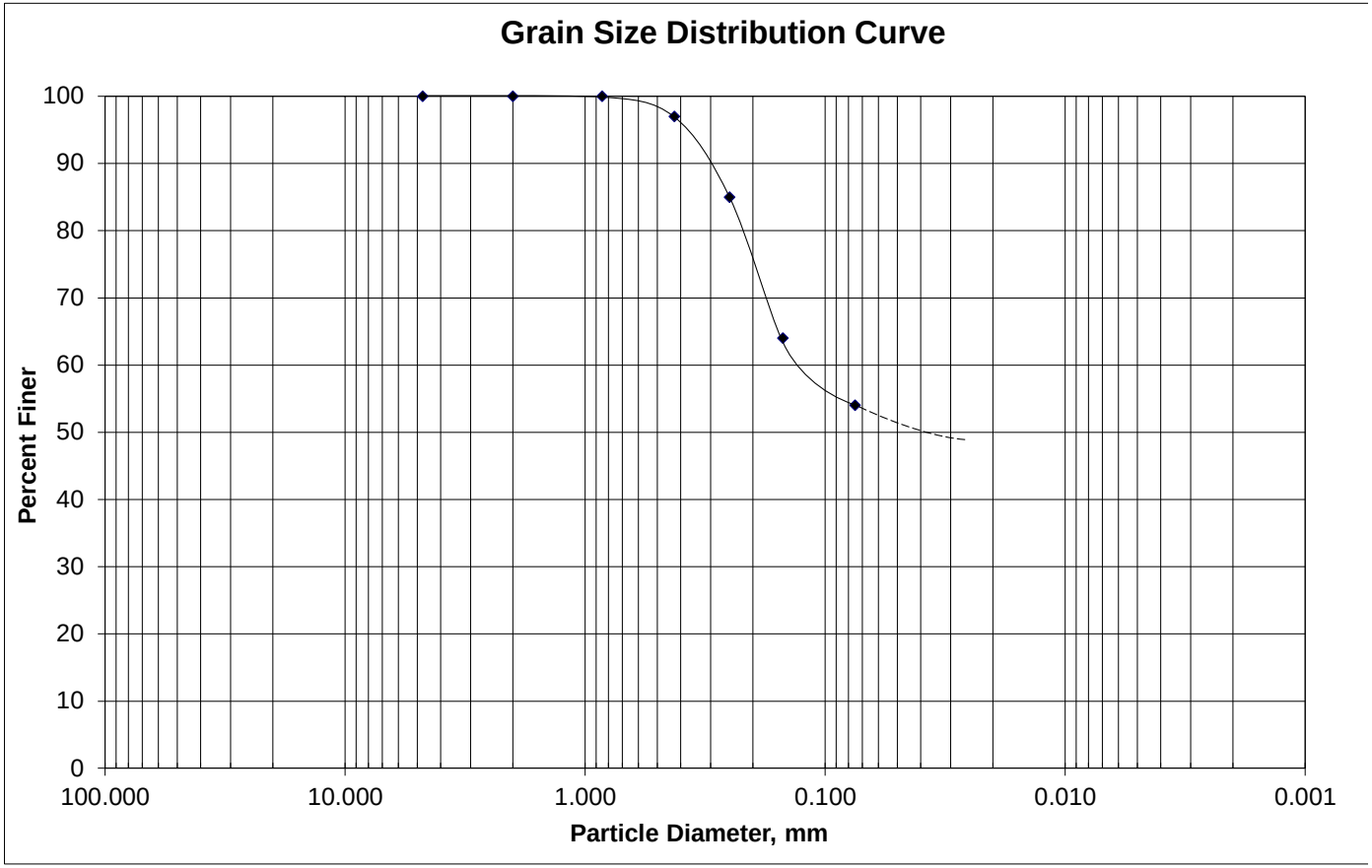
TEST INFORMATION:

PROJECT NO.: 364-13-24-02 **DATE:** 2/7/2025

BORING NO.: OSW-1 **DEPTH:** 12.0 - 14.0 (FEET)

SOIL DESCRIPTION: GRAY AND ORANGE HIGHLY PLASTIC SANDY CLAY
CH / A-7-6 / STRATUM E

GRAPHICAL REPRESENTATION OF TEST RESULTS



INFILTRATION TESTS

DATA SHEET

"CASED HOLE" PIEZOMETER ANALYSIS

TEST IDENTIFICATION:

DATE:	2/5/2025	TIME:	8:59 AM
PROJECT NO:	364-13-24-02	TEST NO:	OCH-1
DEPTH:	8.0 - 10.0 FEET	TESTED BY:	J. NELSON
SOIL DESCRIPTION:	CLAYEY FINE SAND (STRATUM C)		
WEATHER CONDITIONS:	SUNNY / 55°		
PROJECT DESCRIPTION:	I-75 AT US 41 SWMF		
DEPTH TO GROUNDWATER:	> 10.3 FEET		

EQUATION:

$$k_h := \frac{d^2 \cdot \ln\left(\frac{2 \cdot m \cdot L}{D}\right)}{8 \cdot L \cdot (t_2 - t_1)} \cdot \ln\left(\frac{H_1}{H_2}\right)$$

where:

k = Permeability (cm/sec)	=	COMPUTED		$T_2 - T_1$ = Duration of Test (sec)	=	VARIES
d = Dia of Piezometer (cm)	=	5.08		H_1 = Head at Start of Test (cm)	=	238.74
D = Dia of Piezometer Filter (cm)	=	7.62		H_2 = Head at Finish of Test (cm)	=	208.26
m = Tranformation Ratio	=	1.0		L = Length of Filter (cm)	=	60.96

TEST RESULTS:

TEST NO	T2 - T1 (sec)	ELAPSED TIME (hr)	PERMEABILITY (cm/sec)	PERMEABILITY (in/hr)
1	36.0	0.06	0.0006	0.8
2	51.0	0.11	0.0004	0.6
3	54.0	0.17	0.0004	0.5
4	56.0	0.22	0.0004	0.5
5	59.0	0.28	0.0003	0.5
6	60.0	0.33	0.0003	0.5
7	62.0	0.39	0.0003	0.5
8	64.0	0.44	0.0003	0.4
9	**65.0**	**0.50**	**0.0003**	**0.4**
10	67.0	0.56	0.0003	0.4
11	68.0	0.61	0.0003	0.4
12	69.0	0.67	0.0003	0.4
13	70.0	0.72	0.0003	0.4
14	73.0	0.78	0.0003	0.4
15	76.0	0.83	0.0003	0.4
16	78.0	0.89	0.0003	0.4
17	79.0	0.94	0.0003	0.4
18	**80.0**	**1.00**	**0.0003**	**0.4**
19	81.0	1.06	0.0002	0.4
20	84.0	1.11	0.0002	0.3
21	82.0	1.17	0.0002	0.3
22	81.0	1.22	0.0002	0.4
23	79.0	1.28	0.0003	0.4
24	76.0	1.33	0.0003	0.4
25	79.0	1.39	0.0003	0.4
26	81.0	1.44	0.0002	0.4
27	**80.0**	**1.50**	**0.0003**	**0.4**
28	81.0	1.56	0.0002	0.4
29	83.0	1.61	0.0002	0.3
30	86.0	1.67	0.0002	0.3
31	87.0	1.72	0.0002	0.3
32	90.0	1.78	0.0002	0.3
33	90.0	1.83	0.0002	0.3
34	92.0	1.89	0.0002	0.3
35	91.0	1.94	0.0002	0.3
36	**93.0**	**2.00**	**0.0002**	**0.3**

NO	T2 - T1 (sec)	ELAPSED TIME (hr)	PERMEABILITY (cm/sec)	PERMEABILITY (in/hr)
45	93.0	2.06	0.0002	0.3
46	94.0	2.11	0.0002	0.3
47	96.0	2.17	0.0002	0.3
48	97.0	2.22	0.0002	0.3
49	98.0	2.28	0.0002	0.3
50	98.0	2.33	0.0002	0.3
51	99.0	2.39	0.0002	0.3
52	100.0	2.44	0.0002	0.3
53	**99.0**	**2.50**	**0.0002**	**0.3**
54	101.0	2.56	0.0002	0.3
55	103.0	2.61	0.0002	0.3
56	104.0	2.67	0.0002	0.3
57	106.0	2.72	0.0002	0.3
58	104.0	2.78	0.0002	0.3
59	106.0	2.83	0.0002	0.3
60	107.0	2.89	0.0002	0.3
61	108.0	2.94	0.0002	0.3
62	**108.0**	**3.00**	**0.0002**	**0.3**
63	111.0	3.06	0.0002	0.3
64	112.0	3.11	0.0002	0.3
65	115.0	3.17	0.0002	0.2
66	117.0	3.22	0.0002	0.2
67	118.0	3.28	0.0002	0.2
68	119.0	3.33	0.0002	0.2
69	122.0	3.39	0.0002	0.2
70	122.0	3.44	0.0002	0.2
71	**124.0**	**3.50**	**0.0002**	**0.2**
72	125.0	3.56	0.0002	0.2
73	127.0	3.61	0.0002	0.2
74	128.0	3.67	0.0002	0.2
75	130.0	3.72	0.0002	0.2
76	131.0	3.78	0.0002	0.2
77	132.0	3.83	0.0002	0.2
78	133.0	3.89	0.0002	0.2
79	134.0	3.94	0.0001	0.2
88	**135.0**	**4.00**	**0.0001**	**0.2**

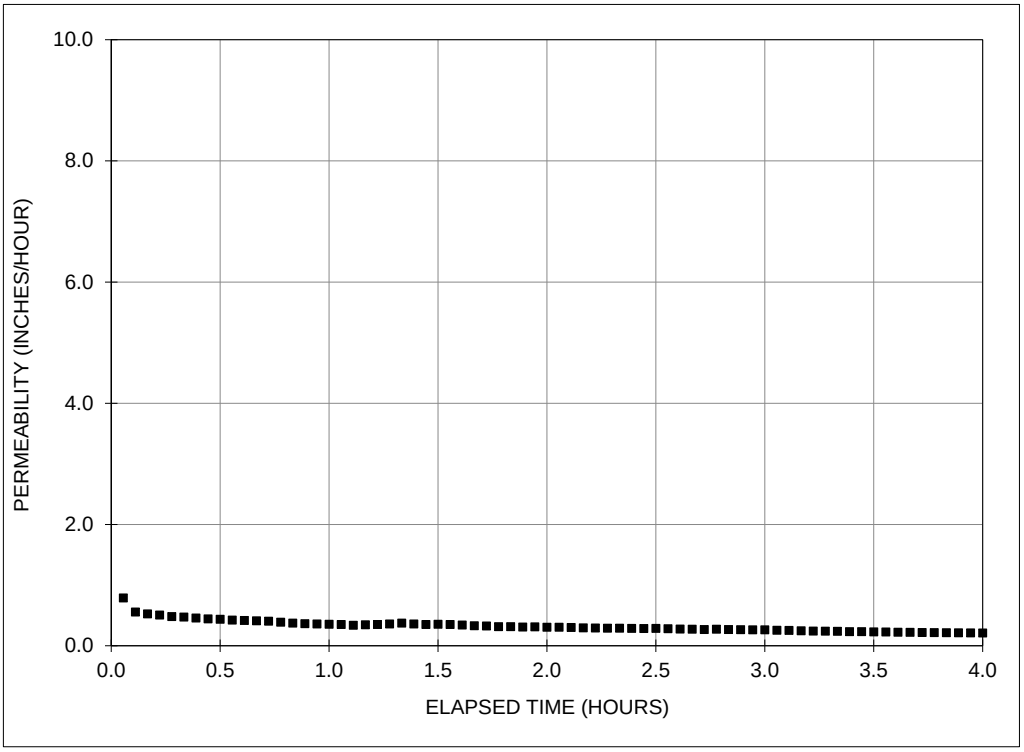
DATA SHEET

"CASED HOLE" PIEZOMETER ANALYSIS

TEST IDENTIFICATION:

DATE:	2/5/2025	TIME:	8:59 AM
PROJECT NO:	364-13-24-02	TEST NO:	OCH-1
DEPTH:	8.0 - 10.0 FEET	TESTED BY:	J. NELSON
SOIL DESCRIPTION:	CLAYEY FINE SAND (STRATUM C)		
WEATHER CONDITIONS:	SUNNY / 55°		
PROJECT DESCRIPTION:	I-75 AT US 41 SWMF		
DEPTH TO GROUNDWATER:	> 10.3 FEET		

GRAPHICAL PRESENTATION:



MEASURED "STEADY STATE" HORIZONTAL PERMEABILITY

AVERAGE OF LAST HALF HOUR K_H = **0.2** **INCHES/HOUR**

ESTIMATED "STEADY STATE" VERTICAL PERMEABILITY

AVERAGE OF LAST HALF HOUR K_V = **0.1** **INCHES/HOUR**

DATA SHEET

"CASED HOLE" PIEZOMETER ANALYSIS

TEST IDENTIFICATION:

DATE:	2/5/2025	TIME:	11:50 AM
PROJECT NO:	364-13-24-02	TEST NO:	OCH-2
DEPTH:	5.0 - 7.0 FEET	TESTED BY:	J. NELSON
SOIL DESCRIPTION:	SILTY FINE SAND (STRATUM B)		
WEATHER CONDITIONS:	SUNNY / 73°		
PROJECT DESCRIPTION:	I-75 AT US 41 SWMF		
DEPTH TO GROUNDWATER:	> 7.2 FEET		

EQUATION:

$$k_h := \frac{d^2 \cdot \ln\left(\frac{2 \cdot m \cdot L}{D}\right)}{8 \cdot L \cdot (t_2 - t_1)} \cdot \ln\left(\frac{H_1}{H_2}\right)$$

where:

k = Permeability (cm/sec)	=	COMPUTED		$T_2 - T_1$ = Duration of Test (sec)	=	VARIES
d = Dia of Piezometer (cm)	=	5.08		H_1 = Head at Start of Test (cm)	=	88.08
D = Dia of Piezometer Filter (cm)	=	7.62		H_2 = Head at Finish of Test (cm)	=	57.60
m = Tranformation Ratio	=	1.0		L = Length of Filter (cm)	=	60.96

TEST RESULTS:

TEST NO	T2 - T1 (sec)	ELAPSED TIME (hr)	PERMEABILITY (cm/sec)	PERMEABILITY (in/hr)
1	4.0	0.06	0.0156	22.1
2	6.0	0.11	0.0104	14.7
3	6.0	0.17	0.0104	14.7
4	7.0	0.22	0.0089	12.6
5	7.0	0.28	0.0089	12.6
6	8.0	0.33	0.0078	11.0
7	8.0	0.39	0.0078	11.0
8	8.0	0.44	0.0078	11.0
9	**9.0**	**0.50**	**0.0069**	**9.8**
10	9.0	0.56	0.0069	9.8
11	9.0	0.61	0.0069	9.8
12	10.0	0.67	0.0062	8.8
13	10.0	0.72	0.0062	8.8
14	10.0	0.78	0.0062	8.8
15	11.0	0.83	0.0057	8.0
16	11.0	0.89	0.0057	8.0
17	11.0	0.94	0.0057	8.0
18	**10.0**	**1.00**	**0.0062**	**8.8**
19	11.0	1.06	0.0057	8.0
20	11.0	1.11	0.0057	8.0
21	11.0	1.17	0.0057	8.0
22	11.0	1.22	0.0057	8.0
23	11.0	1.28	0.0057	8.0
24	11.0	1.33	0.0057	8.0
25	12.0	1.39	0.0052	7.4
26	12.0	1.44	0.0052	7.4
27	**11.0**	**1.50**	**0.0057**	**8.0**
28	11.0	1.56	0.0057	8.0
29	11.0	1.61	0.0057	8.0
30	11.0	1.67	0.0057	8.0
31	11.0	1.72	0.0057	8.0
32	12.0	1.78	0.0052	7.4
33	12.0	1.83	0.0052	7.4
34	12.0	1.89	0.0052	7.4
35	12.0	1.94	0.0052	7.4
36	**13.0**	**2.00**	**0.0048**	**6.8**

NO	T2 - T1 (sec)	ELAPSED TIME (hr)	PERMEABILITY (cm/sec)	PERMEABILITY (in/hr)
37	12.0	2.06	0.0052	7.4
38	12.0	2.11	0.0052	7.4
39	12.0	2.17	0.0052	7.4
40	13.0	2.22	0.0048	6.8
41	13.0	2.28	0.0048	6.8
42	12.0	2.33	0.0052	7.4
43	12.0	2.39	0.0052	7.4
44	12.0	2.44	0.0052	7.4
45	**13.0**	**2.50**	**0.0048**	**6.8**
46	12.0	2.56	0.0052	7.4
47	12.0	2.61	0.0052	7.4
48	12.0	2.67	0.0052	7.4
49	12.0	2.72	0.0052	7.4
50	13.0	2.78	0.0048	6.8
51	12.0	2.83	0.0052	7.4
52	12.0	2.89	0.0052	7.4
53	12.0	2.94	0.0052	7.4
54	**12.0**	**3.00**	**0.0052**	**7.4**
55	12.0	3.06	0.0052	7.4
56	13.0	3.11	0.0048	6.8
57	12.0	3.17	0.0052	7.4
58	12.0	3.22	0.0052	7.4
59	12.0	3.28	0.0052	7.4
60	14.0	3.33	0.0045	6.3
61	13.0	3.39	0.0048	6.8
62	12.0	3.44	0.0052	7.4
63	**13.0**	**3.50**	**0.0048**	**6.8**
64	13.0	3.56	0.0048	6.8
65	13.0	3.61	0.0048	6.8
66	13.0	3.67	0.0048	6.8
67	13.0	3.72	0.0048	6.8
68	13.0	3.78	0.0048	6.8
69	13.0	3.83	0.0048	6.8
70	13.0	3.89	0.0048	6.8
71	13.0	3.94	0.0048	6.8
72	**13.0**	**4.00**	**0.0048**	**6.8**

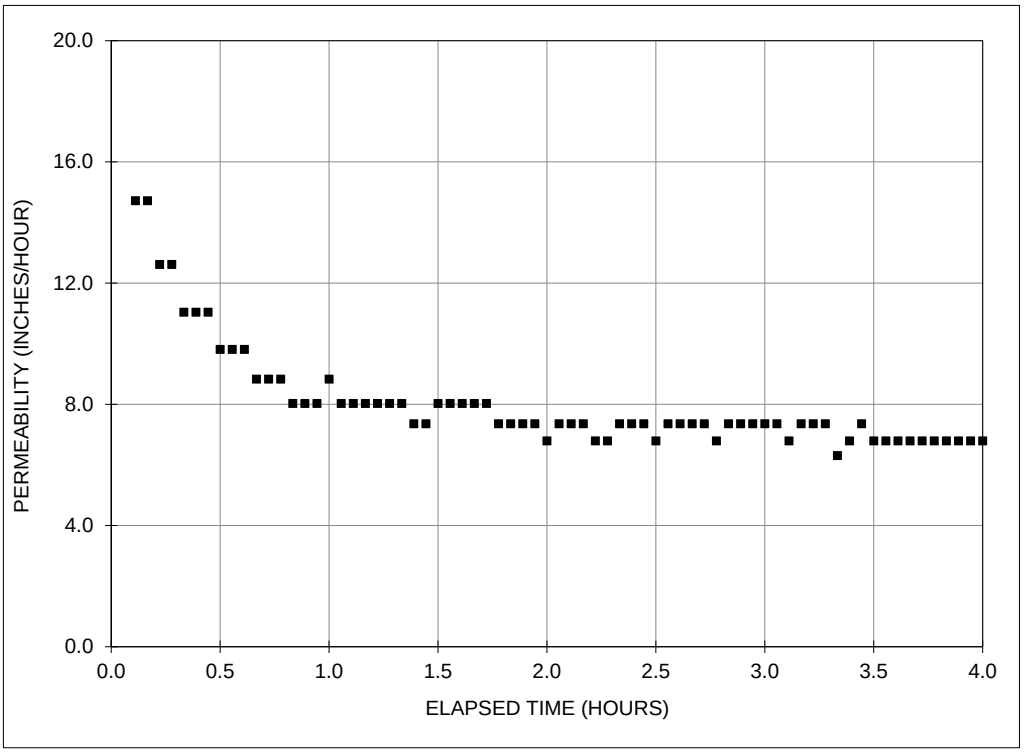
DATA SHEET

"CASED HOLE" PIEZOMETER ANALYSIS

TEST IDENTIFICATION:

DATE:	2/5/2025	TIME:	11:50 AM
PROJECT NO:	364-13-24-02	TEST NO:	OCH-2
DEPTH:	5.0 - 7.0 FEET	TESTED BY:	J. NELSON
SOIL DESCRIPTION:	SILTY FINE SAND (STRATUM B)		
WEATHER CONDITIONS:	SUNNY / 73°		
PROJECT DESCRIPTION:	I-75 AT US 41 SWMF		
DEPTH TO GROUNDWATER:	> 7.2 FEET		

GRAPHICAL PRESENTATION:



MEASURED "STEADY STATE" HORIZONTAL PERMEABILITY

AVERAGE OF LAST HALF HOUR K_H = **6.8** **INCHES/HOUR**

ESTIMATED "STEADY STATE" VERTICAL PERMEABILITY

AVERAGE OF LAST HALF HOUR K_V = **4.5** **INCHES/HOUR**

Exhibit "G"

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FPN: 445725-5-54-02	Fund: DI Org Code: 55024010206	FLAIR Category: 088794 FLAIR Obj: 751000
FPN:	Fund: Org Code:	FLAIR Category: FLAIR Obj:
FPN:	Fund: Org Code:	FLAIR Category: FLAIR Obj:
County No:Columbia - 29	Contract No:	Vendor No: F596000564005

THIS STATE-FUNDED GRANT AGREEMENT ("Agreement") is entered into on _____, (This date to be entered by DOT only) by and between the State of Florida Department of Transportation, ("Department"), and Columbia County, ("Recipient"). The Department and the Recipient are sometimes referred to in this Agreement as a "Party" and collectively as the "Parties".

NOW, THEREFORE, in consideration of the mutual benefits to be derived from joint participation on the Project, the Parties agree to the following:

1. **Authority:** The Department is authorized to enter into this Agreement pursuant to Sections 334.044, 334.044(7), and (*select the applicable statutory authority for the program(s) below):*
   - ☐ Section 339.2817 Florida Statutes, County Incentive Grant Program (CIGP), (CSFA 55.008)
   - ☐ Section 339.2818 Florida Statutes, Small County Outreach Program (SCOP), (CSFA 55.009)
   - ☐ Section 339.2816 Florida Statutes, Small County Road Assistance Program (SCRAP), (CSFA 55.016)
   - ☐ Section 339.2819 Florida Statutes, Transportation Regional Incentive Program (TRIP), (CSFA 55.026)
   - ☒ 339.061 FS , Transportation Systems Development & Florida Rail Enterprise , 55.047

   The Recipient by Resolution or other form of official authorization, a copy of which is attached as **Exhibit "D"**, **Recipient Resolution**, and made a part of this Agreement, has authorized its officers to execute this Agreement on its behalf.

2. **Purpose of Agreement:** The purpose of this Agreement is to provide for the Department's participation in Operational Improvements to the Ellisville I-75 / US 41 / US 441 Interchange from 3600 ft South of I -75 SB ramp to SR 238, as further described in **Exhibit "A", Project Description and Responsibilities**, attached to and incorporated into this Agreement ("Project"); to provide Department financial assistance to the Recipient; state the terms and conditions upon which Department funds will be provided; and to set forth the manner in which the Project will be undertaken and completed.

3. **Term of the Agreement, Commencement and Completion of the Project:** This Agreement shall commence upon full execution by both Parties and the Recipient shall complete the Project on or before 06/30/2028. If the Recipient does not complete the Project within this time period, this Agreement will expire on the last day of the scheduled completion as provided in this paragraph unless an extension of the time period is requested by the Recipient and granted in writing by the Department prior to the expiration of this Agreement. Expiration of this Agreement will be considered termination of the Project. The Recipient acknowledges that no funding for the Project will be provided by the State under this Agreement for work on the Project that is not timely completed and invoiced in accordance with the terms of this Agreement, or for work performed prior to full execution of the Agreement. Notwithstanding the expiration of the required completion date provided in this Agreement and the consequent potential unavailability of any unexpended portion of State funding to be provided under this Agreement, the

Recipient shall remain obligated to complete all aspects of the Project identified in **Exhibit "A"** in accordance with the remaining terms of this Agreement, unless otherwise agreed by the Parties, in writing.

Execution of this Agreement by both Parties shall be deemed a Notice to Proceed to the Recipient for the design phase or other non-construction phases of the Project. If the Project involves a construction phase, the Recipient shall not begin the construction phase of the Project until the Department issues a written Notice to Proceed for the construction phase. Prior to commencing the construction work described in this Agreement, the Recipient shall request a Notice to Proceed from the Department.

4. **Amendments, Extensions and Assignment:** This Agreement may be amended or extended upon mutual written agreement of the Parties. This Agreement shall not be assigned, transferred or otherwise encumbered by the Recipient under any circumstances without the prior written consent of the Department.

5. **Termination or Suspension of Project:** The Department may, by written notice to the Recipient, suspend any or all of the Department's obligations under this Agreement for the Recipient's failure to comply with applicable laws or the terms of this Agreement until such time as the event or condition resulting in such suspension has ceased or been corrected. The Department may also terminate this Agreement in whole or in part at any time the interest of the Department requires such termination.

   a. If the Department terminates the Agreement, the Department shall notify the Recipient of such termination in writing within thirty (30) days of the Department's determination to terminate the Agreement, with instructions as to the effective date of termination or to specify the stage of work at which the Agreement is to be terminated.

   b. The Parties to this Agreement may also terminate this Agreement when its continuation would not produce beneficial results commensurate with the further expenditure of funds. In this event, the Parties shall agree upon the termination conditions through mutual written agreement.

   c. If the Agreement is terminated before performance is completed, the Recipient shall be paid only for that work satisfactorily performed for which costs can be substantiated. Such payment, however, may not exceed an amount which is the same percentage of the contract price as the amount of work satisfactorily completed is a percentage of the total work called for by this Agreement. All work in progress on the Department right-of-way will become the property of the Department and will be turned over promptly by the Recipient.

   d. Upon termination of this Agreement, the Recipient shall, within thirty (30) days, refund to the Department any funds determined by the Department to have been expended in violation of this Agreement.

6. **Project Cost:**

   a. The estimated cost of the Project is $15,000,000. This amount is based upon the Schedule of Financial Assistance in **Exhibit "B", Schedule of Financial Assistance**, attached and incorporated in this Agreement. The Schedule of Financial Assistance may be modified by execution of an amendment of the Agreement by the Parties.

   b. The Department agrees to participate in the Project cost up to the maximum amount of $15,000,000 and, additionally the Department's participation in the Project shall not exceed 100% of the total cost of the Project, and as more fully described in **Exhibit "B"**. The Department's participation may be increased or reduced upon a determination of the actual bid amounts of the Project by the execution of an amendment. The Recipient agrees to bear all expenses in excess of the amount of the Department's participation and any cost overruns or deficits incurred in connection with completion of the Project.

   c. The Department's participation in eligible Project costs is subject to, but not limited to:

      i. Legislative approval of the Department's appropriation request in the work program year that the Project is scheduled to be committed;

ii. Approval of all plans, specifications, contracts or other obligating documents and all other terms of this Agreement; and

iii. Department approval of the Project scope and budget at the time appropriation authority becomes available.

7. **Compensation and Payment:**

a. The Department shall reimburse the Recipient for costs incurred to perform services described in the Project Description and Responsibilities in **Exhibit "A"**, and as set forth in the Schedule of Financial Assistance in **Exhibit "B"**.

b. The Recipient shall provide quantifiable, measurable, and verifiable units of deliverables. Each deliverable must specify the required minimum level of service to be performed and the criteria for evaluating successful completion. The Project and the quantifiable, measurable, and verifiable units of deliverables are described more fully in **Exhibit "A"**, Project Description and Responsibilities. Any changes to the deliverables shall require an amendment executed by both parties.

c. Invoices shall be submitted no more often than monthly and no less than quarterly by the Recipient in detail sufficient for a proper pre-audit and post-audit, based on the quantifiable, measurable and verifiable deliverables as established in **Exhibit "A"**. Deliverables and costs incurred must be received and approved by the Department prior to reimbursements. Requests for reimbursement by the Recipient shall include an invoice, progress report and supporting documentation for the period of services being billed that are acceptable to the Department. The Recipient shall use the format for the invoice and progress report that is approved by the Department.

d. If Recipient is considered a rural community or rural area of opportunity, as these terms are defined by Section 288.0656(2), Florida Statutes, Recipient may submit payment requests for eligible performance completed/costs incurred under this Agreement pursuant to **Exhibit "H", Alternative Advance Payment Financial Provisions**.

e. Supporting documentation must establish that the deliverables were received and accepted in writing by the Recipient and must also establish that the required minimum standards or level of service to be performed based on the criteria for evaluating successful completion as specified in **Exhibit "A"** has been met. All costs invoiced shall be supported by properly executed payrolls, time records, invoices, contracts or vouchers evidencing in proper detail the nature and propriety of charges as described in **Exhibit "F", Contract Payment Requirements**.

f. Travel expenses are not compensable under this Agreement.

g. Payment shall only be made after receipt and approval of deliverables and costs incurred unless the payment is made under **Exhibit "H"** or advance payments are authorized by the Chief Financial Officer of the State of Florida under Chapters 215 and 216, Florida Statutes or the Department's Comptroller under Section 334.044(29), Florida Statutes.

If the Department determines that the performance of the Recipient is unsatisfactory, the Department shall notify the Recipient of the deficiency to be corrected, which correction shall be made within a time-frame to be specified by the Department. The Recipient shall, within thirty (30) days after notice from the Department, provide the Department with a corrective action plan describing how the Recipient will address all issues of contract non-performance, unacceptable performance, failure to meet the minimum performance levels, deliverable deficiencies, or contract non-compliance. If the corrective action plan is unacceptable to the Department, the Recipient will not be reimbursed or paid under **Exhibit "H"**, to the extent of the non-performance. The Recipient will not be reimbursed or paid until the Recipient resolves the deficiency. If the deficiency is subsequently resolved, the Recipient may bill the Department for any unpaid performance completed by the Recipient during the next billing period or as provided by **Exhibit "H",** Alternative Advance Payment Financial Provisions. If the Recipient is unable to resolve the deficiency, the funds shall be forfeited at the end of the Agreement's term.

Recipients receiving financial assistance from the Department should be aware of the following time frames. Inspection and approval of deliverables and costs incurred shall take no longer than 20 days from the Department's receipt of the invoice. The Department has 20 days to deliver a request for payment (voucher) to the Department of Financial Services. The 20 days are measured from the latter of the date the invoice is received or the deliverables and costs incurred are received, inspected, and approved.

If a payment is not available within 40 days, a separate interest penalty at a rate as established pursuant to Section 55.03(1), Florida Statutes, will be due and payable, in addition to the invoice amount, to the Recipient. Interest penalties of less than one (1) dollar will not be enforced unless the Recipient requests payment. Invoices that have to be returned to a Recipient because of Recipient preparation errors will result in a delay in the payment. The invoice payment requirements do not start until a properly completed invoice is provided to the Department.

A Vendor Ombudsman has been established within the Department of Financial Services. The duties of this individual include acting as an advocate for Recipient who may be experiencing problems in obtaining timely payment(s) from a state agency. The Vendor Ombudsman may be contacted at (850) 413-5516.

h. The Recipient shall maintain an accounting system or separate accounts to ensure funds and projects are tracked separately. Records of costs incurred under the terms of this Agreement shall be maintained and made available upon request to the Department at all times during the period of this Agreement and for five years after final payment is made. Copies of these documents and records shall be furnished to the Department upon request. Records of costs incurred include the Recipient's general accounting records and the project records, together with supporting documents and records, of the contractor and all subcontractors performing work on the project, and all other records of the contractor and subcontractors considered necessary by the Department for a proper audit of costs.

i. **Progress Reports.** Upon request, the Recipient agrees to provide progress reports to the Department in the standard format used by the Department and at intervals established by the Department. The Department will be entitled at all times to be advised, at its request, as to the status of the Project and of details thereof.

j. If, after Project completion, any claim is made by the Department resulting from an audit or for work or services performed pursuant to this Agreement, the Department may offset such amount from payments due for work or services done under any agreement which it has with the Recipient owing such amount if, upon demand, payment of the amount is not made within 60 days to the Department. Offsetting any amount pursuant to this paragraph shall not be considered a breach of contract by the Department.

k. The Recipient must submit the final invoice on the Project to the Department within 120 days after the completion of the Project. Invoices submitted after the 120-day time period may not be paid.

l. The Department's performance and obligation to pay under this Agreement is contingent upon an annual appropriation by the Legislature. If the Department's financial assistance for this Project is in multiple fiscal years, a notice of availability of funds from the Department's project manager must be received prior to costs being incurred by the Recipient. See **Exhibit "B"** for funding levels by fiscal year. Project costs utilizing any fiscal year funds are not eligible for reimbursement if incurred prior to funds approval being received. The Department will notify the Recipient, in writing, when funds are available.

m. In the event this Agreement is in excess of $25,000 and has a term for a period of more than one year, the provisions of Section 339.135(6)(a), Florida Statutes, are hereby incorporated:

> "The Department, during any fiscal year, shall not expend money, incur any liability, or enter into any contract which, by its terms, involves the expenditure of money in excess of the amounts budgeted as available for expenditure during such fiscal year. Any contract, verbal or written, made in violation of this subsection is null and void, and no money may be paid on such contract. The Department shall require a statement from the comptroller of the Department that funds are available prior to entering into any such contract or other binding commitment of funds. Nothing herein contained shall prevent the making of

contracts for periods exceeding 1 year, but any contract so made shall be executory only for the value of the services to be rendered or agreed to be paid for in succeeding fiscal years, and this paragraph shall be incorporated verbatim in all contracts of the Department which are for an amount in excess of $25,000 and which have a term for a period of more than 1 year."

n. Any Project funds made available by the Department pursuant to this Agreement which are determined by the Department to have been expended by the Recipient in violation of this Agreement or any other applicable law or regulation, shall be promptly refunded in full to the Department. Acceptance by the Department of any documentation or certifications, mandatory or otherwise permitted, that the Recipient files shall not constitute a waiver of the Department's rights as the funding agency to verify all information at a later date by audit or investigation.

o. In determining the amount of the payment, the Department will exclude all Project costs incurred by the Recipient prior to the execution of this Agreement, costs incurred prior to issuance of a Notice to Proceed, costs incurred after the expiration of the Agreement, costs which are not provided for in the latest approved Schedule of Financial Assistance in **Exhibit "B"** for the Project, costs agreed to be borne by the Recipient or its contractors and subcontractors for not meeting the Project commencement and final invoice time lines, and costs attributable to goods or services received under a contract or other arrangements which have not been approved in writing by the Department.

8. **General Requirements:**

The Recipient shall complete the Project with all practical dispatch in a sound, economical, and efficient manner, and in accordance with the provisions in this Agreement and all applicable laws.

a. The Recipient must obtain written approval from the Department prior to performing itself (through the efforts of its own employees) any aspect of the Project that will be funded under this Agreement.

☐ If this box is checked, then the Agency is permitted to utilize its own forces and the following provision applies: **Use of Agency Workforce.** In the event the Agency proceeds with any phase of the Project utilizing its own forces, the Agency will only be reimbursed for direct costs (this excludes general overhead).

b. The Recipient shall provide to the Department certification and a copy of appropriate documentation substantiating that all required right-of-way necessary for the Project has been obtained. Certification is required prior to authorization for advertisement for or solicitation of bids for construction of the Project, including if no right-of-way is required.

c. The Recipient shall comply and require its contractors and subcontractors to comply with all terms and conditions of this Agreement and all federal, state, and local laws and regulations applicable to this Project.

d. The Recipient shall have the sole responsibility for resolving claims and requests for additional work for the Project by the Recipient's contractors and consultants. No funds will be provided for payment of claims or additional work on the Project under this Agreement without the prior written approval of the claim or request for additional work by Department.

9. **Contracts of the Recipient**

a. The Department has the right to review and approve any and all third party contracts with respect to the Project before the Recipient executes any contract or obligates itself in any manner requiring the disbursement of Department funds under this Agreement, including consultant or construction contracts or amendments thereto. If the Department exercises this right and the Recipient fails to obtain such approval, the Department may deny payment to the Recipient. The Department may review the qualifications of any consultant or contractor and to approve or disapprove the employment of such consultant or contractor.

b. It is understood and agreed by the parties hereto that participation by the Department in a project that involves the purchase of commodities or contractual services or the purchasing of capital equipment or the

equipping of facilities, where purchases or costs exceed the Threshold Amount for CATEGORY TWO per Chapter 287.017 Florida Statutes, is contingent on the Recipient complying in full with the provisions of Chapter 287.057 Florida Statutes The Recipient shall certify to the Department that the purchase of commodities or contractual services has been accomplished in compliance with Chapter 287.057 Florida Statutes It shall be the sole responsibility of the Recipient to ensure that any obligations made in accordance with this Section comply with the current threshold limits. Contracts, purchase orders, task orders, construction change orders, or any other agreement that would result in exceeding the current budget contained in **Exhibit "B"**, or that are not consistent with the Project description and scope of services contained in **Exhibit "A"** must be approved by the Department prior to Recipient execution. Failure to obtain such approval, and subsequent execution of an amendment to the Agreement if required, shall be sufficient cause for nonpayment by the Department.

c. Participation by the Department in a project that involves a consultant contract for engineering, architecture or surveying services, is contingent on the Recipient's complying in full with provisions of Section 287.055, Florida Statutes, Consultants' Competitive Negotiation Act. In all cases, the Recipient shall certify to the Department that selection has been accomplished in compliance with the Consultants' Competitive Negotiation Act.

d. If the Project is procured pursuant to Chapter 255, Florida Statutes, for construction services and the cost of the Project is to be paid from state-appropriated funds, then the Recipient must comply with the requirements of Section 255.0991, Florida Statutes.

10. **Design and Construction Standards and Required Approvals:** In the event the Project includes construction the following provisions are incorporated into this Agreement:

a. The Recipient is responsible for obtaining all permits necessary for the Project.

b. In the event the Project involves construction on the Department's right-of-way, the Recipient shall provide the Department with written notification of either its intent to:

i. Award the construction of the Project to a Department prequalified contractor which is the lowest and best bidder in accordance with applicable state and federal statutes, rules, and regulations. The Recipient shall then submit a copy of the bid tally sheet(s) and awarded bid contract, or

ii. Construct the Project utilizing existing Recipient employees, if the Recipient can complete said Project within the time frame set forth in this Agreement. The Recipient's use of this option is subject to approval by the Department.

c. The Recipient shall hire a qualified contractor using the Recipient's normal bid procedures to perform the construction work for the Project. For projects that are not located on the Department's right-of-way, the Recipient is not required to hire a contractor prequalified by the Department unless the Department notifies the Recipient prior to letting that they are required to hire a contractor prequalified by the Department.

d. The Recipient is responsible for provision of Construction Engineering Inspection (CEI) services. The Department reserves the right to require the Recipient to hire a Department pre-qualified consultant firm that includes one individual that has completed the Advanced Maintenance of Traffic Level Training. Notwithstanding any provision of law to the contrary, design services and CEI services may not be performed by the same entity. Administration of the CEI staff shall be under the responsible charge of a State of Florida Licensed Professional Engineer who shall provide the certification that all design and construction for the Project meets the minimum construction standards established by Department. The Department shall have the right to approve the CEI firm. The Department shall have the right, but not the obligation, to perform independent assurance testing during the course of construction of the Project. Subject to the approval of the Department, the Recipient may choose to satisfy the requirements set forth in this paragraph by either hiring a Department prequalified consultant firm or utilizing Recipient staff that meet the requirements of this paragraph, or a combination thereof.

e. The Recipient is responsible for the preparation of all design plans for the Project. The Department reserves the right to require the Recipient to hire a Department pre-qualified consultant for the design phase of the Project using the Recipient's normal procurement procedures to perform the design services for the Project. Notwithstanding any provision of law to the contrary, design services and CEI services may not be performed by the same entity. All design work on the Project shall be performed in accordance with the requirements of all applicable laws and governmental rules and regulations and federal and state accepted design standards for the type of construction contemplated by the Project, including, as applicable, but not limited to, the applicable provisions of the Manual of Uniform Traffic Control Devices (MUTCD) and the AASHTO Policy on Geometric Design of Streets and Highways. If any portion of the Project will be located on, under, or over any Department-owned right-of-way, the Department shall review the Project's design plans for compliance with all applicable standards of the Department, as provided in **Exhibit "O", Terms and Conditions of Construction**, which is attached to and incorporated into this Agreement.

f. The Recipient shall adhere to the Department's Conflict of Interest Procedure (FDOT Topic No. 375-030-006).

g. The Recipient will provide copies of the final design plans and specifications and final bid documents to the Department's Construction Project Manager prior to commencing construction of the Project. The Department will specify the number of copies required and the required format.

h. The Recipient shall require the Recipient's contractor to post a payment and performance bond in accordance with applicable law.

i. The Recipient shall be responsible to ensure that the construction work under this Agreement is performed in accordance with the approved construction documents, and that it will meet all applicable Recipient and Department standards.

j. Upon completion of the work authorized by this Agreement, the Recipient shall notify the Department in writing of the completion of construction of the Project; and for all design work that originally required certification by a Professional Engineer, this notification shall contain an Engineers Certification of Compliance, signed and sealed by a Professional Engineer, the form of which is attached hereto and incorporated herein as **Exhibit "C", Engineers Certification of Completion**. The certification shall state that work has been completed in compliance with the Project construction plans and specifications. If any deviations are found from the approved plans, the certification shall include a list of all deviations along with an explanation that justifies the reason to accept each deviation.

k. The Recipient shall provide the Department with as-built plans of any portions of the Project funded through the Agreement prior to final inspection.

11. **Maintenance Obligations:** In the event the Project includes construction then the following provisions are incorporated into this Agreement:

a. The Recipient agrees to maintain any portion of the Project not located on the State Highway System constructed under this Agreement for its useful life. If the Recipient constructs any improvement on Department right-of-way, the Recipient

☐ shall

☒ shall not

maintain the improvements located on the Department right-of-way made for their useful life. If the Recipient is required to maintain Project improvements located on the Department right-of-way beyond final acceptance, then Recipient shall, prior to any disbursement of the State funding provided under this Agreement, also execute a Maintenance Memorandum of Agreement in a form that is acceptable to the Department. The Recipient has agreed to the foregoing by resolution, and such resolution is attached and incorporated into this Agreement as **Exhibit "D"**. This provision will survive termination of this Agreement.

12. **State Single Audit:** The administration of resources awarded through the Department to the Recipient by this Agreement may be subject to audits and/or monitoring by the Department. The following requirements do not limit

the authority of the Department to conduct or arrange for the conduct of additional audits or evaluations of state financial assistance or limit the authority of any state agency inspector general, the Auditor General, or any other state official. The Recipient shall comply with all audit and audit reporting requirements as specified below.

a. In addition to reviews of audits conducted in accordance with Section 215.97, Florida Statutes, monitoring procedures to monitor the Recipient's use of state financial assistance may include but not be limited to on-site visits by Department staff and/or other procedures including, reviewing any required performance and financial reports, following up, ensuring corrective action, and issuing management decisions on weaknesses found through audits when those findings pertain to state financial assistance awarded through the Department by this Agreement. By entering into this Agreement, the Recipient agrees to comply and cooperate fully with any monitoring procedures/processes deemed appropriate by the Department. The Recipient further agrees to comply and cooperate with any inspections, reviews, investigations, or audits deemed necessary by the Department, the Department of Financial Services (DFS) or the Auditor General.

b. The Recipient, a nonstate entity as defined by Section 215.97(2)(n), Florida Statutes, as a recipient of state financial assistance awarded by the Department through this Agreement is subject to the following requirements:

i. In the event the Recipient meets the audit threshold requirements established by Section 215.97, Florida Statutes, the Recipient must have a State single or project-specific audit conducted for such fiscal year in accordance with Section 215.97, Florida Statutes; applicable rules of the Department of Financial Services; and Chapters 10.550 (local governmental entities) or 10.650 (nonprofit and for-profit organizations), Rules of the Auditor General. **Exhibit "J", State Financial Assistance (Florida Single Audit Act)** to this Agreement indicates state financial assistance awarded through the Department by this Agreement needed by the Recipient to further comply with the requirements of Section 215.97, Florida Statutes. In determining the state financial assistance expended in a fiscal year, the Recipient shall consider all sources of state financial assistance, including state financial assistance received from the Department by this Agreement, other state agencies and other nonstate entities. State financial assistance does not include Federal direct or pass-through awards and resources received by a nonstate entity for Federal program matching requirements.

ii. In connection with the audit requirements, the Recipient shall ensure that the audit complies with the requirements of Section 215.97(8), Florida Statutes. This includes submission of a financial reporting package as defined by Section 215.97(2)(e), Florida Statutes, and Chapters 10.550 (local governmental entities) or 10.650 (nonprofit and for-profit organizations), Rules of the Auditor General.

iii. In the event the Recipient does not meet the audit threshold requirements established by Section 215.97, Florida Statutes, the Recipient is exempt for such fiscal year from the state single audit requirements of Section 215.97, Florida Statutes. However, the Recipient must provide a single audit exemption statement to the Department at FDOTSingleAudit@dot.state.fl.us no later than nine months after the end of the Recipient's audit period for each applicable audit year. In the event the Recipient does not meet the audit threshold requirements established by Section 215.97, Florida Statutes, in a fiscal year and elects to have an audit conducted in accordance with the provisions of Section 215.97, Florida Statutes, the cost of the audit must be paid from the Recipient's resources (i.e., the cost of such an audit must be paid from the Recipient's resources obtained from other than State entities).

iv. In accordance with Chapters 10.550 (local governmental entities) or 10.650 (nonprofit and for-profit organizations), Rules of the Auditor General, copies of financial reporting packages required by this Agreement shall be submitted to:

Florida Department of Transportation
Office of Comptroller, MS 24
605 Suwannee Street
Tallahassee, FL 32399-0405
Email: FDOTSingleAudit@dot.state.fl.us

And

State of Florida Auditor General
Local Government Audits/342
111 West Madison Street, Room 401
Tallahassee, FL 32399-1450
Email: flaudgen_localgovt@aud.state.fl.us

v. Any copies of financial reporting packages, reports or other information required to be submitted to the Department shall be submitted timely in accordance with Section 215.97, Florida Statutes, and Chapters 10.550 (local governmental entities) or 10.650 (nonprofit and for-profit organizations), Rules of the Auditor General, as applicable.

vi. The Recipient, when submitting financial reporting packages to the Department for audits done in accordance with Chapters 10.550 (local governmental entities) or 10.650 (nonprofit and for-profit organizations), Rules of the Auditor General, should indicate the date the reporting package was delivered to the Recipient in correspondence accompanying the reporting package.

vii. Upon receipt, and within six months, the Department will review the Recipient's financial reporting package, including corrective action plans and management letters, to the extent necessary to determine whether timely and appropriate corrective action on all deficiencies has been taken pertaining to the state financial assistance provided through the Department by this Agreement. If the Recipient fails to have an audit conducted consistent with Section 215.97, Florida Statutes, the Department may take appropriate corrective action to enforce compliance.

viii. As a condition of receiving state financial assistance, the Recipient shall permit the Department, or its designee, DFS or the Auditor General access to the Recipient's records including financial statements, the independent auditor's working papers and project records as necessary. Records related to unresolved audit findings, appeals or litigation shall be retained until the action is complete or the dispute is resolved.

c. The Recipient shall retain sufficient records demonstrating its compliance with the terms of this Agreement for a period of five years from the date the audit report is issued and shall allow the Department, or its designee, DFS or the Auditor General access to such records upon request. The Recipient shall ensure that the audit working papers are made available to the Department, or its designee, DFS or the Auditor General upon request for a period of five years from the date the audit report is issued unless extended in writing by the Department.

13. Restrictions, Prohibitions, Controls and Labor Provisions:

a. 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 bid on a contract to provide any goods or services to a public entity; may not submit a bid on a contract with a public entity for the construction or repair of a public building or public work; may not submit bids on leases of real property to a public entity; may not be awarded or perform work as a contractor, supplier, subcontractor or consultant under a 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 36 months from the date of being placed on the convicted vendor list.

b. In accordance with Section 287.134, Florida Statutes, an entity or affiliate who has been placed on the Discriminatory Vendor List, kept by the Florida Department of Management Services, may not submit a bid on a contract to provide goods or services to a public entity; may not submit a bid on a contract with a public

entity for the construction or repair of a public building or public work; may not submit bids on leases of real property to a public entity; may not be awarded or perform work as a contractor, supplier, subcontractor or consultant under a contract with any public entity; and may not transact business with any public entity.

c. An entity or affiliate who has had its Certificate of Qualification suspended, revoked, denied or have further been determined by the Department to be a non-responsible contractor may not submit a bid or perform work for the construction or repair of a public building or public work on a contract with the Recipient.

d. No funds received pursuant to this Agreement may be expended for lobbying the Florida Legislature, judicial branch, or any state agency, in accordance with Section 216.347, Florida Statutes.

e. The Department shall consider the employment by any contractor of unauthorized aliens a violation of Section 274A(e) of the Immigration and Nationality Act. If the contractor knowingly employs unauthorized aliens, such violation will be cause for unilateral cancellation of this Agreement.

f. The Recipient shall:

i. Utilize the U.S. Department of Homeland Security's E-Verify system to verify the employment eligibility of all new employees hired by the Recipient during the term of the contract; and

ii. Expressly require any contractor and subcontractors performing work or providing services pursuant to the state contract to likewise utilize the U.S. Department of Homeland Security's E-Verify system to verify the employment eligibility of all new employees hired by the contractor and subcontractor during the contract term.

g. The Recipient shall comply and require its contractors and subcontractors to comply with all terms and conditions of this Agreement and all federal, state, and local laws and regulations applicable to this Project.

14. Indemnification and Insurance:

a. It is specifically agreed between the parties executing this Agreement that it is not intended by any of the provisions of any part of this Agreement to create in the public or any member thereof, a third-party beneficiary under this Agreement, or to authorize anyone not a party to this Agreement to maintain a suit for personal injuries or property damage pursuant to the terms or provisions of this Agreement. The Recipient guarantees the payment of all just claims for materials, supplies, tools, or labor and other just claims against the Recipient or any subcontractor, in connection with this Agreement.

b. To the extent provided by law, Recipient shall indemnify, defend, and hold harmless the Department against any actions, claims, or damages arising out of, relating to, or resulting from negligent or wrongful act(s) of Recipient, 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 Recipient hereunder, to the extent and within the limitations of Section 768.28, Florida Statutes. The foregoing indemnification shall not constitute a waiver of the Department's or the Recipient's sovereign immunity beyond the limits set forth in Florida Statutes, Section 768.28, nor shall the same be construed to constitute agreement by Recipient to indemnify the Department for the negligent acts or omissions of the Department, its officers, agents, or employees, or for the acts of third parties. Nothing herein shall be construed as consent by Recipient to be sued by third parties in any manner arising out of this Agreement. This indemnification shall survive the termination of this Agreement.

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 [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].

The foregoing indemnification shall not constitute a waiver of the Department's or [RECIPIENT']'s 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."

d. The Recipient shall provide Workers' Compensation Insurance in accordance with Florida's Workers' Compensation law for all employees. If subletting any of the work, ensure that the subcontractor(s) and subconsultants have Workers' Compensation Insurance for their employees in accordance with Florida's Workers' Compensation law. If using "leased employees" or employees obtained through professional employer organizations ("PEO's"), ensure that such employees are covered by Workers' Compensation insurance through the PEO's or other leasing entities. Ensure that any equipment rental agreements that include operators or other personnel who are employees of independent contractors, sole proprietorships or partners are covered by insurance required under Florida's Workers' Compensation law.

e. If the Recipient elects to self-perform the Project, and such self-performance is approved by the Department in accordance with the terms of this Agreement, the Recipient may self-insure and proof of self-insurance shall be provided to the Department. If the Recipient elects to hire a contractor or consultant to perform the Project, then the Recipient shall, or cause its contractor or consultant to carry Commercial General Liability insurance providing continuous coverage for all work or operations performed under the Agreement. Such insurance shall be no more restrictive than that provided by the latest occurrence form edition of the standard Commercial General Liability Coverage Form (ISO Form CG 00 01) as filed for use in the State of Florida. Recipient shall, or cause its contractor to cause the Department to be made an Additional Insured as to such insurance. Such coverage shall be on an "occurrence" basis and shall include Products/Completed Operations coverage. The coverage afforded to the Department as an Additional Insured shall be primary as to any other available insurance and shall not be more restrictive than the coverage afforded to the Named Insured. The limits of coverage shall not be less than $1,000,000 for each occurrence and not less than a $5,000,000 annual general aggregate, inclusive of amounts provided by an umbrella or excess policy. The limits of coverage described herein shall apply fully to the work or operations performed under the Agreement, and may not be shared with or diminished by claims unrelated to the Agreement. The policy/ies and coverage described herein may be subject to a deductible and such deductibles shall be paid by the Named Insured. No policy/ies or coverage described herein may contain or be subject to a Retention or a Self-Insured Retention unless the Recipient is a state agency or subdivision of the State of Florida that elects to self-perform the Project. Prior to the execution of the Agreement, and at all renewal periods which occur prior to final acceptance of the work, the Department shall be provided with an ACORD Certificate of Liability Insurance reflecting the coverage described herein. The Department shall be notified in writing within ten days of any cancellation, notice of cancellation, lapse, renewal, or proposed change to any policy or coverage described herein. The Department's approval or failure to disapprove any policy/ies, coverage, or ACORD Certificates shall not relieve or excuse any obligation to procure and maintain the insurance required herein, nor serve as a waiver of any rights or defenses the Department may have.

f. When the Agreement includes the construction of a railroad grade crossing, railroad overpass or underpass structure, or any other work or operations within the limits of the railroad right-of-way, including any encroachments thereon from work or operations in the vicinity of the railroad right-of-way, the Recipient shall, or cause its contractor to, in addition to the insurance coverage required above, procure and maintain Railroad Protective Liability Coverage (ISO Form CG 00 35) where the railroad is the Named Insured and where the limits are not less than $2,000,000 combined single limit for bodily injury and/or property damage per occurrence, and with an annual aggregate limit of not less than $6,000,000. The railroad shall also be added along with the Department as an Additional Insured on the policy/ies procured pursuant to the paragraph above. Prior to the execution of the Agreement, and at all renewal periods which occur prior to final acceptance of the work, both the Department and the railroad shall be provided with an ACORD Certificate of Liability Insurance reflecting the coverage described herein. The insurance described herein

shall be maintained through final acceptance of the work. Both the Department and the railroad shall be notified in writing within ten days of any cancellation, notice of cancellation, renewal, or proposed change to any policy or coverage described herein. The Department's approval or failure to disapprove any policy/ies, coverage, or ACORD Certificates shall not relieve or excuse any obligation to procure and maintain the insurance required herein, nor serve as a waiver of any rights the Department may have.

g. When the Agreement involves work on or in the vicinity of utility-owned property or facilities, the utility shall be added along with the Department as an Additional Insured on the Commercial General Liability policy/ies procured above.

15. Miscellaneous:

a. In no event shall any payment to the Recipient constitute or be construed as a waiver by the Department of any breach of covenant or any default which may then exist on the part of the Recipient and the making of such payment by the Department, while any such breach or default shall exist, shall in no way impair or prejudice any right or remedy available to the Department with respect to such breach or default.

b. If any provision of this Agreement is held invalid, the remainder of this Agreement shall not be affected. In such an instance, the remainder would then continue to conform to the terms and requirements of applicable law.

c. The Recipient and the Department agree that the Recipient, its employees, contractors, subcontractors, consultants, and subconsultants are not agents of the Department as a result of this Agreement.

d. By execution of the Agreement, the Recipient represents that it has not paid and, also agrees not to pay, any bonus or commission for the purpose of obtaining an approval of its application for the financing hereunder.

e. Nothing in the Agreement shall require the Recipient to observe or enforce compliance with any provision or perform any act or do any other thing in contravention of any applicable state law. If any of the provisions of the Agreement violate any applicable state law, the Recipient will at once notify the Department in writing in order that appropriate changes and modifications may be made by the Department and the Recipient to the end that the Recipient may proceed as soon as possible with the Project.

f. This Agreement may be executed in one or more counterparts, each of which shall be deemed an original, but all of which shall constitute the same Agreement. A facsimile or electronic transmission of this Agreement with a signature on behalf of a party will be legal and binding on such party.

g. The Department reserves the right to unilaterally terminate this Agreement for failure by the Recipient to comply with the provisions of Chapter 119, Florida Statutes.

h. The Recipient agrees to comply with Section 20.055(5), Florida Statutes, and to incorporate in all subcontracts the obligation to comply with Section 20.055(5), Florida Statutes

i. This Agreement shall be governed by and construed in accordance with the laws of the State of Florida. In the event of a conflict between any portion of the contract and Florida law, the laws of Florida shall prevail. The Recipient agrees to waive forum and venue and that the Department shall determine the forum and venue in which any dispute under this Agreement is decided.

j. This Agreement does not involve the purchase of Tangible Personal Property, as defined in Chapter 273, Florida Statutes.

16. Exhibits.

a. **Exhibits A, B, D, F, H,** and **J** are attached to and incorporated into this Agreement.

b. ☒ The Project will involve construction, therefore, **Exhibit "C"**, Engineer's Certification of Compliance is attached and incorporated into this Agreement.

c. ☐ This Project utilizes Advance Project Reimbursement. If this Project utilizes Advance Project Reimbursement, then **Exhibit "K"**, Advance Project Reimbursement is attached and incorporated into this Agreement.

d. ☒ A portion or all of the Project will utilize the Department's right-of-way and, therefore, **Exhibit O, Terms and Conditions of Construction in Department Right-of-Way**, is attached and incorporated into this Agreement.

e. ☒ The following Exhibit(s), in addition to those listed in 16.a. through 16.f., are attached and incorporated into this Agreement: Exhibit E - County Acknowledgement Letter, Exhibit G- Draft Concept Map

f. **Exhibit and Attachment List**

Exhibit A: Project Description and Responsibilities
Exhibit B: Schedule of Financial Assistance
*Exhibit C: Engineer's Certification of Compliance
Exhibit D: Recipient Resolution
Exhibit F: Contract Payment Requirements
Exhibit H: Alternative Advance Payment Financial Provisions
Exhibit J: State Financial Assistance (Florida Single Audit Act)
*Exhibit K: Advance Project Reimbursement
*Exhibit O: Terms and Conditions of Construction in Department Right-of-Way

*Additional Exhibit(s):
*Indicates that the Exhibit is only attached and incorporated if applicable box is selected.

The remainder of this page intentionally left blank.

IN WITNESS WHEREOF, the Parties have executed this Agreement on the day and year written above.

RECIPIENT Columbia County

By:

Name: Ronald Williams

Title: Chair

STATE OF FLORIDA,
DEPARTMENT OF TRANSPORTATION

By: _____

Name: Greg Evans

Title: District Secretary

Legal Review:

By: _____

Name: Angela Hensel

EXHIBIT A

PROJECT DESCRIPTION AND RESPONSIBILITIES

FPN: 445725-5-54-02

This exhibit forms an integral part of the Agreement between the State of Florida, Department of Transportation and

Columbia County (the Recipient)

PROJECT LOCATION:

☒ The project is on the National Highway System.

☐ The project is on the State Highway System.

PROJECT LENGTH AND MILE POST LIMITS: approx. 1.25

PROJECT DESCRIPTION: Planning, ROW acquisition, design, construction and CEI of Operational Improvements to the Ellisville I-75 US 41 / US 441 Interchange from 3600 ft South of I-75 SB ramp to SR 238

SPECIAL CONSIDERATIONS BY RECIPIENT:

The Recipient is required to provide a copy of the design plans for the Department's review and approval to coordinate permitting with the Department, and notify the Department prior to commencement of any right-of-way activities. See Exhibit O. The County understands and agrees that any large development over 500 trips / day in the SW Quadrant of US 441 / US 41 and Interstate I-75 will not be permitted until all needed improvement are completed and in service. Further outlined in Exhibit E - County Acknowledgements Scope Letter. Currently, these draft improvements (subject to change) are represented by Phase 1 and II further outlined in Exhibit G - Draft Concept Map.

The Recipient shall commence the project's activities subsequent to the execution of this Agreement and shall perform in accordance with the following schedule:

a) Study to be completed by 3/31/2025
b) Design to be completed by 3/31/2025
c) Right-of-Way to be certified by 3/31/2025

d) Construction contract to be let by 6/30/2025
e) Construction to be completed by 6/30/2028

If this schedule cannot be met, the Recipient will notify the Department in writing with a revised schedule or the project is subject to the withdrawal of funding.

SPECIAL CONSIDERATIONS BY DEPARTMENT:
On System plans review will be performed in ERC

EXHIBIT B
SCHEDULE OF FINANCIAL ASSISTANCE

RECIPIENT NAME & BILLING ADDRESS:	FINANCIAL PROJECT NUMBER:
Columbia County, PO Box 1529, Lake City, FL 32025-1529	445725-5-54-02

PHASE OF WORK by Fiscal Year:		MAXIMUM PARTICIPATION (1) TOTAL PROJECT FUNDS	(2) LOCAL FUNDS	(3) STATE FUNDS	Indicate source of Local funds
Design- Phase 34 FY:	Maximum Department Participation (Insert Program Name)	$	$	$	☐ In-Kind ☐ Cash
FY:	Maximum Department Participation (Insert Program Name)	$	$	$	☐ In-Kind ☐ Cash
	Total Design Cost	$ 0.00 %	$ 0.00 %	$ 0.00 %	
Right-of-Way- Phase 44 FY:	Maximum Department Participation (Insert Program Name)	$	$	$	☐ In-Kind ☐ Cash
FY:	Maximum Department Participation (Insert Program Name)	$	$	$	☐ In-Kind ☐ Cash
	Total Right-of-Way Cost	$ 0.00 %	$ 0.00 %	$ 0.00 %	
Construction- Phase 54 FY: **2025**	Maximum Department Participation (Strategic Intermodal System Supply Chain Demands	$15,000,000.00	$	$15,000,000.00	☐ In-Kind ☐ Cash
FY:	Maximum Department Participation (Insert Program Name)	$	$	$	☐ In-Kind ☐ Cash
	Total Construction Cost	$15,000,000.00 100.00%	$ 0.00 %	$15,000,000.00 100.00%	
Construction Engineering and Inspection - Phase 64 FY:	Maximum Department Participation (Insert Program Name)	$	$	$	☐ In-Kind ☐ Cash
FY:	Maximum Department Participation (Insert Program Name)	$	$	$	☐ In-Kind ☐ Cash
	Total Construction Engineering and Inspection Cost	$ 0.00 %	$ 0.00 %	$ 0.00 %	
(Phase :) FY:	Maximum Department Participation (Insert Program Name)	$	$	$	☐ In-Kind ☐ Cash
FY:	Maximum Department Participation (Insert Program Name)	$	$	$	☐ In-Kind ☐ Cash
	Total Cost	$ 0.00 %	$ 0.00 %	$ 0.00 %	
	TOTAL COST OF THE PROJECT	$15,000,000.00	$ 0.00	$15,000,000.00	

COST ANALYSIS CERTIFICATION AS REQUIRED BY SECTION 216.3475, FLORIDA STATUTES:
I certify that the cost for each line item budget category has been evaluated and determined to be allowable, reasonable, and necessary as required by Section 216.3475, F.S. Documentation is on file evidencing the methodology used and the conclusions reached.

Kim Evans
District Grant Manager Name

Signature Date

EXHIBIT C

ENGINEER'S CERTIFICATION OF COMPLIANCE

Engineer's Certification of Compliance. The Recipient shall complete and submit the following Notice of Completion and, if applicable, Engineer's Certification of Compliance to the Department upon completion of the construction phase of the Project.

NOTICE OF COMPLETION

STATE-FUNDED GRANT AGREEMENT
Between
THE STATE OF FLORIDA, DEPARTMENT OF TRANSPORTATION
and Columbia County

PROJECT DESCRIPTION:Planning,ROW acquisition, design, construction and CEI of Operational Improvements to the Ellisville I-75 US 41 / US 441 Interchange from 3600 ft South of I-75 SB ramp to SR 238

FPID#: 445725-5-54-02

In accordance with the Terms and Conditions of the State-Funded Grant Agreement, the undersigned provides notification that the work authorized by this Agreement is complete as of _____, 20__.

By: _____

Name: _____

Title: _____

ENGINEER'S CERTIFICATION OF COMPLIANCE

In accordance with the Terms and Conditions of the State-Funded Grant Agreement, the undersigned certifies that all work which originally required certification by a Professional Engineer has been completed in compliance with the Project construction plans and specifications. If any deviations have been made from the approved plans, a list of all deviations, along with an explanation that justifies the reason to accept each deviation, will be attached to this Certification. Also, with submittal of this certification the Recipient shall furnish the Department a set of "as-built" plans certified by the Engineer of Record/CEI.

By: _____, P.E.

SEAL:

Name: _____

Date: _____

EXHIBIT D

RECIPIENT RESOLUTION

The Recipient's Resolution authorizing entry into this Agreement is attached and incorporated into this Agreement.

EXHIBIT E
COUNTY ACKNOWLEDGE LETTER

District No. 1 - Ronald Williams
District No. 2 - Rocky Ford
District No. 3 - Robby Hollingsworth
District No. 4 - Everett Phillips
District No. 5 - Tim Murphy

BOARD OF COUNTY COMMISSIONERS • COLUMBIA COUNTY

July 11, 2024

James Driggers
D2 Planning and Environmental Management
Florida Department of Transportation
1109 South Marion Avenue
Lake City, FL 32025

RE: Herlong/ US 441 SW Quadrant Road

Per our previous discussions, and the meeting held between FDOT and County Staff on 6/21/2024, the County is proposing to move forward with the Surveying, Design and Permitting of the "Herlong/441 SW Quadrant Road". This will be labeled as Phase 1 and will include but is not limited to:

- Quadrant Roadway design
- Signalization (at Quadrant intersection with 441)/striping
- Improvements to SW Howell Road
- Stormwater design
- Construction Management of all above items

The County is also preparing, with FDOT's assistance, an FRQ for the remaining consulting work which will be Phase 2, required on both the Northern and Southern side of the US 441/41-Interstate 75 interchange. These items include but are not limited to:

- Widening
- Signalization/Striping
- Stormwater
- Construction Management of all above items

The County understands and agrees that any large development (over 500 trips/day) in the SW Quadrant of US 441/41 and Interstate 75 will not be permitted until **BOTH** phases are completed, and placed into service.

Sincerely,

Kevin Kirby
Assistant County Manager/Public Works Director

EXHIBIT F

CONTRACT PAYMENT REQUIREMENTS
Florida Department of Financial Services, Reference Guide for State Expenditures
Cost Reimbursement Contracts

Invoices for cost reimbursement contracts must be supported by an itemized listing of expenditures by category (salary, travel, expenses, etc.). Supporting documentation shall be submitted for each amount for which reimbursement is being claimed indicating that the item has been paid. Documentation for each amount for which reimbursement is being claimed must indicate that the item has been paid. Check numbers may be provided in lieu of copies of actual checks. Each piece of documentation should clearly reflect the dates of service. Only expenditures for categories in the approved agreement budget may be reimbursed. These expenditures must be allowable (pursuant to law) and directly related to the services being provided.

Listed below are types and examples of supporting documentation for cost reimbursement agreements:

Salaries: Timesheets that support the hours worked on the project or activity must be kept. A payroll register, or similar documentation should be maintained. The payroll register should show gross salary charges, fringe benefits, other deductions and net pay. If an individual for whom reimbursement is being claimed is paid by the hour, a document reflecting the hours worked times the rate of pay will be acceptable.

Fringe benefits: Fringe benefits should be supported by invoices showing the amount paid on behalf of the employee, e.g., insurance premiums paid. If the contract specifically states that fringe benefits will be based on a specified percentage rather than the actual cost of fringe benefits, then the calculation for the fringe benefits amount must be shown. Exception: Governmental entities are not required to provide check numbers or copies of checks for fringe benefits.

Travel: Reimbursement for travel must be in accordance with s. 112.061, F.S., which includes submission of the claim on the approved state travel voucher along with supporting receipts and invoices.

Other direct costs: Reimbursement will be made based on paid invoices/receipts and proof of payment processing (cancelled/processed checks and bank statements). If nonexpendable property is purchased using state funds, the contract should include a provision for the transfer of the property to the State when services are terminated. Documentation must be provided to show compliance with DMS Rule 60A-1.017, F.A.C., regarding the requirements for contracts which include services and that provide for the contractor to purchase tangible personal property as defined in s. 273.02, F.S., for subsequent transfer to the State.

Indirect costs: If the contract stipulates that indirect costs will be paid based on a specified rate, then the calculation should be shown. Indirect costs must be in the approved agreement budget and the entity must be able to demonstrate that the costs are not duplicated elsewhere as direct costs. All indirect cost rates must be evaluated for reasonableness and for allowability and must be allocated consistently.

Contracts between state agencies may submit alternative documentation to substantiate the reimbursement request, which may be in the form of FLAIR reports or other detailed reports.

The Florida Department of Financial Services, online Reference Guide for State Expenditures can be found at this web address https://www.myfloridacfo.com/docs-sf/accounting-and-auditing-libraries/state-agencies/reference-guide-for-state-expenditures.pdf.

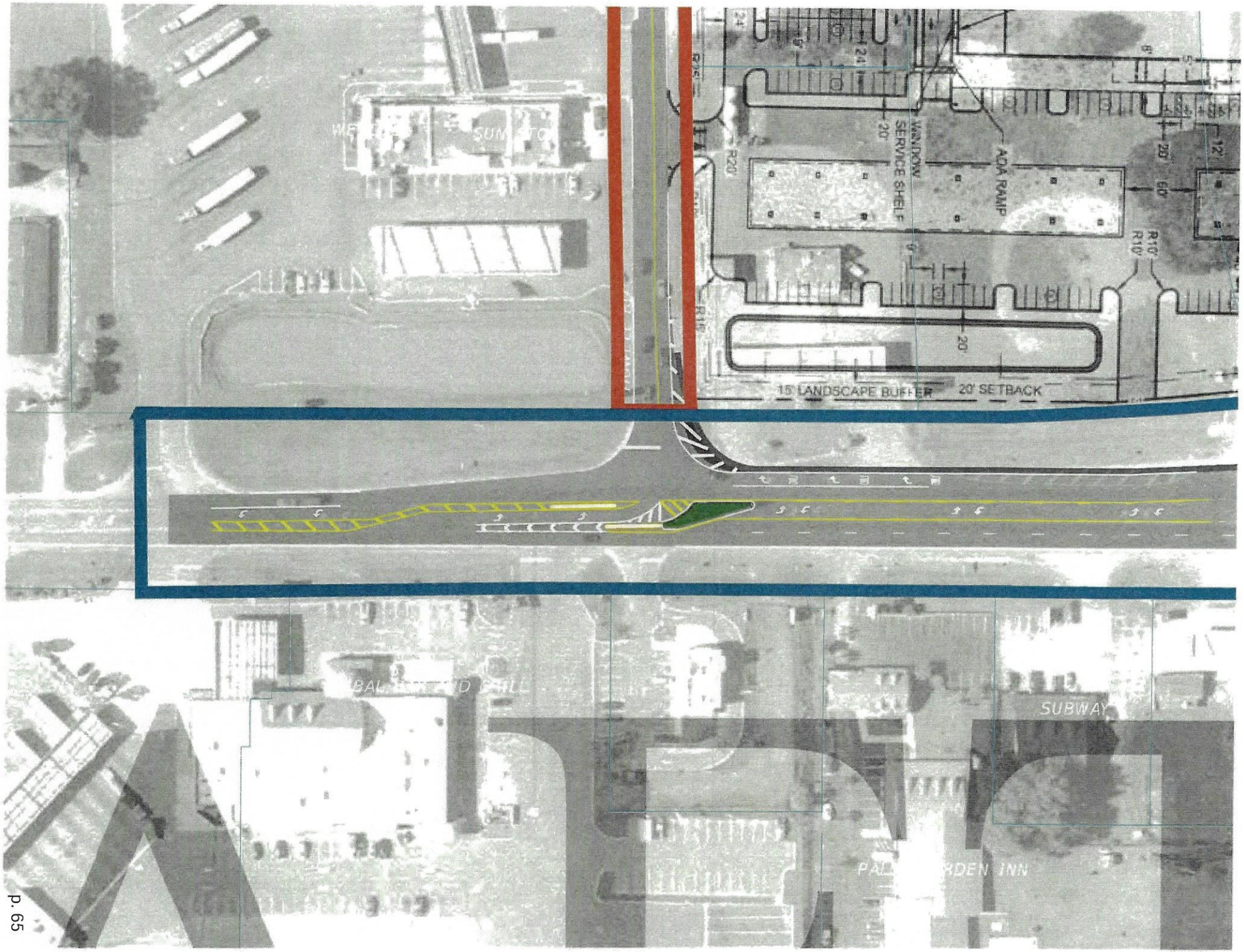
WINDOW SERVICE SHELF
ADA RAMP
15' LANDSCAPE BUFFER
20' SETBACK
SUBWAY

EXHIBIT H

ALTERNATIVE ADVANCE PAYMENT FINANCIAL PROVISIONS

Note: When Recipient meets the definition of a rural community or Rural Area of Opportunity, as these terms are defined by **Section 288.0656(2), F.S.,** *or is considered a " governmental entity" authorized by the Department's Comptroller under* ***Section 334.044(29), F.S.,*** *as eligible for Alternative Advance Payment. The agreement for these entities must include the following language or exhibit.*

The process for requesting and obtaining approval for an alternative advance payment for "other governmental entities" is included in the ***Disbursement Handbook for Employees and Managers.*** *The Department's Comptroller or designee must approve any modifications to the provisions. Please see* ***Financial Provisions for All Department Funded Agreements Procedure (FDOT Topic No. 350-020-301) Section 1.1*** *and* ***4*** *for alternative advance pay guidelines.*

---

1. The amount of the invoice submitted to the Department for verified and eligible costs incurred by the Recipient or invoiced by the Recipient's contractor(s) and/or consultant(s) does not exceed the total amount of the costs incurred by the Recipient or invoice(s) received from the Recipient's contractor(s) or consultant(s).

2. All invoices received from the Recipient clearly separate any cost(s) incurred by the Recipient or the Recipient's contractor(s) or consultant(s) for eligible costs and performance under the terms and conditions of this Agreement.

3. All invoices submitted to the Department provide complete documentation, including copies of all contractor or consultant invoices when applicable and the date(s) the authorized work was performed and accepted by the Recipient, in sufficient detail to substantiate the eligibility of the cost(s) and performance covered by the Recipient's Invoice.

4. The Recipient has certified, on each invoice, that the costs incurred by the Recipient or invoiced by the Recipient's contractor(s) and/or consultant(s) are valid and have been incurred in performance of eligible work under the terms and conditions of this Agreement.

5. Each invoice subsequent to the first invoice submitted by the Recipient includes the Recipient's certification that all previously invoiced costs have been paid by the Recipient.

EXHIBIT J

STATE FINANCIAL ASSISTANCE (FLORIDA SINGLE AUDIT ACT)

THE STATE RESOURCES AWARDED PURSUANT TO THIS AGREEMENT CONSIST OF THE FOLLOWING:

Awarding Agency: Florida Department of Transportation

State Project Title and CSFA Number:

- ☐ County Incentive Grant Program (CIGP), (CSFA 55.008)
- ☐ Small County Outreach Program (SCOP), (CSFA 55.009)
- ☐ Small County Road Assistance Program (SCRAP), (CSFA 55.016)
- ☐ Transportation Regional Incentive Program (TRIP), (CSFA 55.026)
- ☒ Transportation Systems Development & Florida Rail Enterprise , 55.047

***Award Amount:** $15,000,000.00

*The state award amount may change with supplemental agreements

Specific project information for CSFA Number is provided at: https://apps.fldfs.com/fsaa/searchCatalog.aspx

COMPLIANCE REQUIREMENTS APPLICABLE TO STATE RESOURCES AWARDED PURSUANT TO THIS AGREEMENT:

State Project Compliance Requirements for CSFA Number are provided at: https://apps.fldfs.com/fsaa/searchCompliance.aspx

The State Projects Compliance Supplement is provided at: https://apps.fldfs.com/fsaa/compliance.aspx

EXHIBIT O

TERMS AND CONDITIONS OF CONSTRUCTION IN DEPARTMENT RIGHT OF WAY

Section of the Agreement is amended as follows for Construction on the Department's Right of Way.

1. If the Project involves construction on, under, or over the Department's right-of-way, the design work for all portions of the Project to be constructed on, under, or over the Department's right-of-way shall be submitted to the Department for review prior to any work being commenced, and the following provisions shall apply:

a. The Project shall be designed and constructed in accordance with the latest edition of the Department's Standard Specifications for Road and Bridge Construction and Department Design Standards and Manual of Uniform Traffic Control Devices ("MUTCD"). The following guidelines shall apply as deemed appropriate by the Department: the Department Structures Design Manual, AASHTO Guide Specifications for the Design of Pedestrian Bridges, AASHTO LRFD Bridge Design Specifications, the Florida Department of Transportation Design Manual ("FDM") and the Department Traffic Engineering Manual.

Designs that do not meet Department standards may be rejected by the Department at its sole discretion. The Department may allocate Department-managed resources to facilitate compliance with applicable design standards. If changes to the Department approved plans are required, the Recipient shall notify the Department of the changes and receive approval from the Department prior to the changes being constructed. The Recipient shall maintain the area of the Project, at all times, and coordinate any work needs of the Department during construction of the Project.

b. The Recipient shall notify the Department a minimum of 48 hours before beginning construction within, under, or over Department right-of-way. The Recipient shall notify the Department should construction be suspended for more than 5 working days. The Department contact person for construction is Travis Humphries, Director of Operations.

c. The Recipient shall be responsible for monitoring construction operations and the maintenance of traffic ("MOT") throughout the course of the Project in accordance with the latest edition of the Department Standard Specifications, section 102. The Recipient is responsible for the development of a MOT plan and making any changes to that plan as necessary. The MOT plan shall be in accordance with the latest version of the Department Design Standards, Index 600 series. Any MOT plan developed by the Recipient that deviates from the Department Design Standards must be signed and sealed by a professional engineer. MOT plans will require approval by the Department prior to implementation.

d. The Recipient shall be responsible for locating all existing utilities, both aerial and underground, and for ensuring that all utility locations be accurately documented on the construction plans. All utility conflicts shall be fully resolved directly with the applicable utility.

e. The Recipient will be responsible for obtaining all permits that may be required by other agencies or local governmental entities.

f. It is hereby agreed by the Parties that this Agreement creates a permissive use only and all improvements located on, under, or over the Department's right-of-way resulting from this Agreement shall become the property of the Department. Neither the granting of the permission to use the Department right-of-way nor the placing of facilities upon the Department property shall operate to create or vest any property right to or in the Recipient, except as may otherwise be provided in separate agreements. The Recipient shall not acquire any right, title, interest or estate in Department right-of-way, of any nature or kind whatsoever, by virtue of the execution, operation, effect, or performance of this Agreement including, but not limited to, the Recipient's use, occupancy or possession of Department right-of-way. The Parties agree that this Agreement does not, and shall not be construed to, grant credit for any future transportation concurrency requirements pursuant to Chapter 163, Florida Statutes.

g. The Recipient shall not cause any liens or encumbrances to attach to any portion of the Department's property, including but not limited to, the Department's right-of-way.

h. The Recipient shall perform all required testing associated with the design and construction of the Project. Testing results shall be entered into the department's Materials Testing and Certification database application and the department must provide the final Materials Certification for the Project. The Department shall have the right to perform its own independent testing during the course of the Project.

i. The Recipient shall exercise the rights granted herein and shall otherwise perform this Agreement in a good and workmanlike manner, with reasonable care, in accordance with the terms and provisions of this Agreement and all applicable federal, state, local, administrative, regulatory, safety and environmental laws, codes, rules, regulations, policies, procedures, guidelines, standards and permits, as the same may be constituted and amended from time to time, including, but not limited to, those of the Department, applicable Water Management District, Florida Department of Environmental Protection, Environmental Protection Recipient, the Army Corps of Engineers, the United States Coast Guard and local governmental entities.

j. If the Department determines a condition exists which threatens the public's safety, the Department may, at its discretion, cause construction operations to cease and immediately have any potential hazards removed from on, under, or over its right-of-way at the sole cost, expense, and effort of the Recipient. The Recipient shall bear all construction delay costs incurred by the Department.

k. The Recipient shall be responsible to maintain and restore all features that might require relocation within the Department right-of-way.

l. The Recipient will be solely responsible for clean up or restoration required to correct any environmental or health hazards that may result from construction operations.

m. The acceptance procedure will include a final "walk-through" by Recipient and Department personnel. Upon completion of construction, the Recipient will be required to submit to the Department final as-built plans and an engineering certification that construction was completed in accordance to the plans. Submittal of the final as-built plans shall include one complete set of the signed and sealed plans on 11" X 17" plan sheets and an electronic copy prepared in Portable Document Format (PDF). Prior to the termination of this Agreement, the Recipient shall remove its presence, including, but not limited to, all of the Recipient's property, machinery, and equipment from Department right-of-way and shall restore those portions of Department right of way disturbed or otherwise altered by the Project to substantially the same condition that existed immediately prior to the commencement of the Project.

n. If the Department determines that the Project is not completed in accordance with the provisions of this Agreement, the Department shall deliver written notification of such to the Recipient. The Recipient shall have thirty (30) days from the date of receipt of the Department's written notice, or such other time as the Recipient and the Department mutually agree to in writing, to complete the Project and provide the Department with written notice of the same (the "Notice of Completion"). If the Recipient fails to timely deliver the Notice of Completion, or if it is determined that the Project is not properly completed after receipt of the Notice of Completion, the Department, within its discretion may: 1) provide the Recipient with written authorization granting such additional time as the Department deems appropriate to correct the deficiency(ies); or 2) correct the deficiency(ies) at the Recipient's sole cost and expense, without Department liability to the Recipient for any resulting loss or damage to property, including, but not limited to, machinery and equipment. If the Department elects to correct the deficiency(ies), the Department shall provide the Recipient with an invoice for the costs incurred by the Department and the Recipient shall pay the invoice within thirty (30) days of the date of the invoice.

o. The Recipient shall implement best management practices for erosion and pollution control to prevent violation of state water quality standards. The Recipient shall be responsible for the correction of any erosion, shoaling, or water quality problems that result from the construction of the Project.

p. Portable Traffic Monitoring Site (PTMS) or a Telemetry Traffic Monitoring Site (TTMS) may exist within the vicinity of your proposed work. It is the responsibility of the Recipient to locate and avoid damage to these sites. If a PTMS or TTMS is encountered during construction, the Department must be contacted immediately.

q. During construction, highest priority must be given to pedestrian safety. If permission is granted to temporarily close a sidewalk, it should be done with the express condition that an alternate route will be provided, and shall continuously maintain pedestrian features to meet Americans Disability Act (ADA) standards.

r. Restricted hours of operation will be from TBD, (TBD), unless otherwise approved by the Operations Engineer, or designee.

s. Lane closures on the state road system must be coordinated with the Public Information Office at least two weeks prior to the closure. The contact information for the Department's Public Information Office is:

Tracy Hisler-Pace, PIO

Note: (Highlighted sections indicate need to confirm information with District Office or appropriate DOT person managing the Agreement)

COLUMBIA COUNTY, FLORIDA
RESOLUTION NO. 2024R-49

A RESOLUTION OF THE BOARD OF COUNTY COMMISSIONERS OF COLUMBIA COUNTY, FLORIDA APPROVING STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION, REIMBURSEMENT AGREEMENT WITH COLUMBIA COUNTY, FLORIDA FOR THE OPERATIONAL IMPROVEMENTS TO THE ELLISVILLE I-75 US 41/441 INTERCHANGE FROM 3600 FT SOUTH OF I-75 SB RAMP TO SR 238.

WHEREAS, Columbia County has the authority to enter into a Reimbursement Agreement with the State of Florida, Department of Transportation, ("Department"); and

WHEREAS, Columbia County believes it is in the best interest to facilitate the Operational Improvements to the Ellisville I-75- US 41/441 Interchange from 3600 ft. South of I-75 SB ramp to SR 238 in Columbia County, Florida and to enter into a Reimbursement Agreement for Financial Project ID No.445725-5-54-02

NOW, THEREFORE, BE IT RESOLVED BY THE BOARD OF COUNTY COMMISSIONERS OF COLUMBIA COUNTY, FLORIDA, as follows:

Section 1. Columbia County, Florida by and through its Board of County Commissioners, approves the State of Florida, Department of Transportation, Reimbursement Agreement as to Financial Project ID No. 445725-5-54-02, a copy of which is attached hereto and made a part hereof.

Section 2. The Chairman of the Board of County Commissioners, together with any other appropriate County officials, are authorized to execute the agreement on behalf of Columbia County, Florida.

UNANIMOUSLY PASSED AND ADOPTED by the Board of County Commissioners of Columbia County, Florida, at its regular session on November 7, 2024.

BOARD OF COUNTY COMMISSIONERS
COLUMBIA COUNTY, FLORIDA

BY: _____
Ron Williams, Chair

ATTEST: _____
James M. Swisher, Jr., Clerk of Courts (SEAL)