

Response to Request for Proposals

# I-95 EXPRESS LANES - SOUTHERN TERMINUS EXTENSION

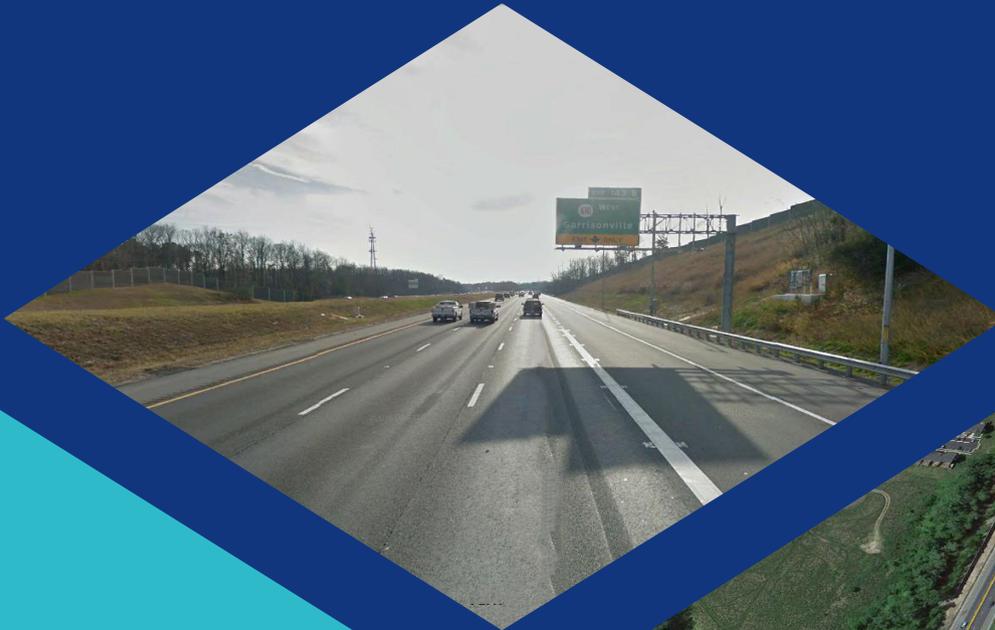
Stafford County, Virginia

State Project No.: 0095-969-720, P101, R201, C501

Federal Project No.: STP-000S (321)

Contract ID Nmber: C00108315DB90

## VOLUME I: LETTER OF SUBMITTAL



SUBMITTED BY:



IN ASSOCIATION WITH:



**ATTACHMENT 4.0.1.1**

**I-95 Express Lanes – Southern Terminus Extension**

**LETTER OF SUBMITTAL AND ATTACHMENTS CHECKLIST**

Offerors shall furnish a copy of this Letter of Submittal Checklist, with the page references added, with the Letter of Submittal.

<b>Technical Proposal Component</b>	<b>Form (if any)</b>	<b>RFP Part 1 Cross Reference</b>	<b>Page Reference</b>
<b>Letter of Submittal and Attachments Checklist</b>	Attachment 4.0.1.1	Section 4.0.1.1	N/A
<b>Acknowledgement of RFP, Revisions, and/or Addenda</b>	Attachment 3.6 (Form C-78-RFP)	Sections 3.6, 4.0.1.1	N/A
<b>Letter of Submittal</b>	NA	Sections 4.1	
Letter of Submittal on Offeror's letterhead	NA	Section 4.1.1	Volume I, 1
Offeror's official representative information	NA	Section 4.1.1	Volume I, 1
Authorized representative's original signature	NA	Section 4.1.1	Volume I, 1
Declaration of intent	NA	Section 4.1.2	Volume I, 1
120 day declaration	yes	Section 4.1.3	Volume I, 1
Point of Contact information	yes	Section 4.1.4	Volume I, 1
Principal Officer information	NA	Section 4.1.5	Volume I, 1
Final Completion Date	NA	Section 4.1.6	Volume I, 1
Proposal Payment Agreement or Waiver of Proposal Payment	Attachment 9.3.1 or 9.3.2	Section 4.1.7	Volume I, 2-5
Certification Regarding Debarment Forms	Attachment 11.8.6(a) Attachment 11.8.6(b)	Section 4.1.8	Volume I, 6-14
Written statement of percent DBE participation	NA	Section 4.1.9	Volume I, 1

**ATTACHMENT 4.0.1.1**

**I-95 Express Lanes – Southern Terminus Extension**

**LETTER OF SUBMITTAL AND ATTACHMENTS CHECKLIST**

<b>Technical Proposal Component</b>	<b>Form (if any)</b>	<b>RFP Part 1 Cross Reference</b>	<b>Page Reference</b>
<b>Attachments to the Letter of Submittal</b>	NA	Section 4.2	
Confirmation that the information provided in the SOQ submittal remains true and accurate or indicates that any requested changes were previously approved by VDOT	NA	Section 4.2.1	Volume I, 15
Organizational chart with any updates since the SOQ submittal clearly identified	NA	Section 4.2.1	Volume I, 15
Revised narrative when organizational chart includes updates since the SOQ submittal	NA	Section 4.2.1	Volume I, 15-16
Conceptual Roadway Plans – Plan View	NA	Section 4.2.2	Volume II, 3-22
Conceptual Roadway Plans – Typical Sections	NA	Section 4.2.2	Volume II, 1-2
Conceptual Structural Plans – Elevation View	NA	Section 4.2.3	N/A
Conceptual Roadway Plans – Transverse Section	NA	Section 4.2.3	N/A
Conceptual Roadway Plans – Abutment Configuration	NA	Section 4.2.3	N/A
<b>Proposal Schedule</b>	NA	Section 4.2.4	
Proposal Schedule	NA	Section 4.2.4.1	Volume II, 23-32
Proposal Schedule Narrative	NA	Section 4.2.4.2	Volume II, 33-39
Proposal Schedule in electronic format (CD-ROM)	NA	Section 4.2.4	N/A

**ATTACHMENT 3.6****COMMONWEALTH OF VIRGINIA  
DEPARTMENT OF TRANSPORTATION**

RFP NO. 0095-969-720  
 PROJECT NO.: C00108315DB90

**ACKNOWLEDGEMENT OF RFP, REVISION AND/OR ADDENDA**

Acknowledgement shall be made of receipt of the Request for Proposals (RFP) and/or any and all revisions and/or addenda pertaining to the above designated project which are issued by the Department prior to the Letter of Submittal submission date shown herein. Failure to include this acknowledgement in the Letter of Submittal may result in the rejection of your proposal.

By signing this Attachment 3.6, the Offeror acknowledges receipt of the RFP and/or following revisions and/or addenda to the RFP for the above designated project which were issued under cover letter(s) of the date(s) shown hereon:

1. Cover letter of RFP – March 2, 2016  
(Date)
2. Cover letter of RFP Addendum No. 1 – March 21, 2016  
(Date)
3. Cover letter of RFP Addendum No. 2 – March 29, 2016  
(Date)
4. Cover letter of **RFP Addendum No. 3 – April 2, 2016**  
(Date)



\_\_\_\_\_

SIGNATURE

April 4, 2016

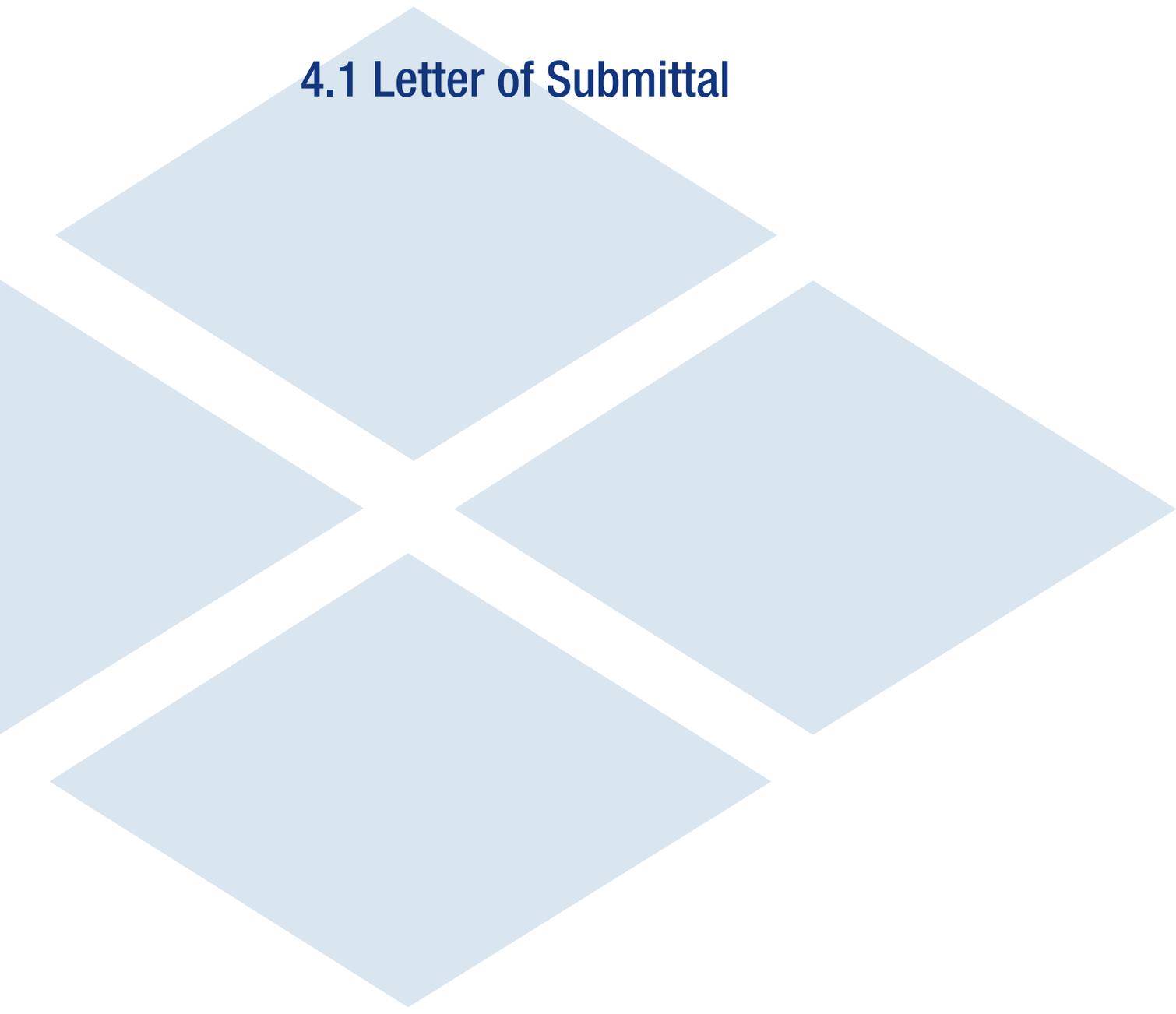
DATE

Michael E. Post

PRINTED NAME

President/CEO/Manager

TITLE



## 4.1 Letter of Submittal



April 5, 2016

Mr. Suril R. Shah  
Alternate Project Delivery Office  
Virginia Department of Transportation  
1401 East Broad Street  
Richmond, VA 23219

**RE: I-95 Express Lanes - Southern Terminus Extension  
Stafford County, Virginia  
Contract ID Number: C00108315DB90  
4.1 Letter of Submittal**

Dear Mr. Shah:

Shirley Contracting Company, LLC (Shirley), 8435 Backlick Road, Lorton, Virginia 22079, as the Offeror, is pleased to submit this Letter of Submittal for the I-95 Express Lanes Southern Terminus Extension Project (the Project) to the Virginia Department of Transportation (VDOT). Together with Dewberry Consultants LLC as the Engineer of Record, we will provide VDOT and the traveling public with an unequalled level of assurance that the Project will be completed successfully and will exceed the priorities established.

**4.1.2 - 4.1.3 Declarations:** Should Shirley be selected, it is our intent to enter into a contract with VDOT for the Project in accordance with the terms of the Request for Proposals (RFP). Further, the offer represented by our Letter of Submittal will remain in full force and effect for one hundred twenty (120) days from the date this Letter of Submittal and attachments are actually submitted to VDOT.

**4.1.4 - Point of Contact:** Garry A. Palleschi, Vice President, Shirley Contracting Company, LLC, 8435 Backlick Road, Lorton, VA 22079, 703.550.3579(P), 703.550.9346 (F) gpalleschi@shirleycontracting.com

**4.1.5 - Principal Officer:** Michael E. Post, President/CEO/Manager, Shirley Contracting Company, LLC 8435 Backlick Road, Lorton, VA 22079, 703.550.3579(P)

**4.1.6 - Interim Milestone:** December 1, 2017  
**Final Completion Date:** August 22, 2018

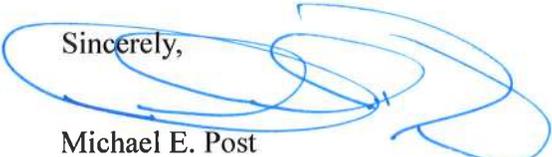
**4.1.7 - Proposal Payment Agreement:** An executed Proposal Payment Agreement, Attachment 9.3.1 is included in the Appendix.

**4.1.8 - Certification of Debarment:** Signed Certification of Debarment Forms are included as an attachment in the Appendix.

**4.1.9 - DBE Participation Goal:** Shirley is committed to achieving the DBE participation goal of 15% for the entire value of the contract.

On behalf of the entire Shirley/Dewberry Team, we thank VDOT for the opportunity to submit this Letter of Submittal and we look forward to your favorable review.

Sincerely,



Michael E. Post  
President/CEO/Manager  
Shirley Contracting Company, LLC



## 4.1.7 - Proposal Payment Agreement

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**ATTACHMENT 9.3.1**  
**PROPOSAL PAYMENT AGREEMENT**

**THIS PROPOSAL PAYMENT AGREEMENT** (this “Agreement”) is made and entered into as of this 5<sup>th</sup> day of April, 2016, by and between the Virginia Department of Transportation (“VDOT”), and Shirley Contracting Co, LLC (“Offeror”).

**WITNESSETH:**

**WHEREAS**, Offeror is one of the entities who submitted Statements of Qualifications (“SOQs”) pursuant to VDOT’s **January 4, 2016** Request for Qualifications (“RFQ”) and was invited to submit proposals in response to a Request for Proposals (“RFP”) for the **I-5 Express Lanes – Southern Terminus Extension, Project No. 0095-969-720** (“Project”), under a design-build contract with VDOT (“Design-Build Contract”); and

**WHEREAS**, as part of the procurement process for the Project, Offeror has already provided and/or furnished to VDOT, and may continue to provide and/or furnish to VDOT, certain intellectual property, materials, information and ideas, including, but not limited to, such matters that are: (a) conveyed verbally and in writing during proprietary meetings or interviews; and (b) contained in, related to or associated with Offeror’s proposal, including, but not limited to, written correspondence, designs, drawings, plans, exhibits, photographs, reports, printed material, tapes, electronic disks, or other graphic and visual aids (collectively “Offeror’s Intellectual Property”); and

**WHEREAS**, VDOT is willing to provide a payment to Offeror, subject to the express conditions stated in this Agreement, to obtain certain rights in Offeror’s Intellectual Property, provided that Offeror submits a proposal that VDOT determines to be responsive to the RFP (“Offeror’s Proposal”), and either (a) Offeror is not awarded the Design-Build Contract; or (b) VDOT cancels the procurement or decides not to award the Design-Build Contract to any Offeror; and

**WHEREAS**, Offeror wishes to receive the payment offered by VDOT, in exchange for granting VDOT the rights set forth in this Agreement.

**NOW, THEREFORE**, in consideration of the mutual covenants and agreements set forth in this Agreement and other good and valuable consideration, the receipt and adequacy of which are acknowledged by the parties, the parties agree as follows:

1. **VDOT's Rights in Offeror's Intellectual Property.** Offeror hereby conveys to VDOT all rights, title and interest, free and clear of all liens, claims and encumbrances, in Offeror's Intellectual Property, which includes, without restriction or limitation, the right of VDOT, and anyone contracting with VDOT, to incorporate any ideas or information from Offeror's Intellectual Property into: (a) the Design-Build Contract and the Project; (b) any other contract awarded in reference to the Project; or (c) any subsequent procurement by VDOT. In receiving all rights, title and interest in Offeror's Intellectual Property, VDOT is deemed to own all intellectual property rights, copyrights, patents, trade secrets, trademarks, and service marks in Offeror's Intellectual Property, and Offeror agrees that it shall, at the request of VDOT, execute all papers and perform all other acts that may be necessary to ensure that VDOT's rights, title and interest in Offeror's Intellectual Property are protected. The rights conferred herein to VDOT include, without limitation, VDOT's ability to use Offeror's Intellectual Property without the obligation to notify or seek permission from Offeror.

2. **Exclusions from Offeror's Intellectual Property.** Notwithstanding Section 1 above, it is understood and agreed that Offeror's Intellectual Property is not intended to include, and Offeror does not convey any rights to, the Escrow Proposal Documents submitted by Offeror in accordance with the RFP.

3. **Proposal Payment.** VDOT agrees to pay Offeror the lump sum amount of **Twenty Five Thousand and 00/100 Dollars (\$ 25,000.00)** ("Proposal Payment"), which payment constitutes payment in full to Offeror for the conveyance of Offeror's Intellectual Property to VDOT in accordance with this Agreement. Payment of the Proposal Payment is conditioned upon: (a) Offeror's Proposal being, in the sole discretion of VDOT, responsive to the RFP; (b) Offeror complying with all other terms and conditions of this Agreement; and (c) either (i) Offeror is not awarded the Design-Build Contract, or (ii) VDOT cancels the procurement or decides not to award the Design-Build Contract to any Offeror.

4. **Payment Due Date.** Subject to the conditions set forth in this Agreement, VDOT will make payment of the Proposal Payment to the Offeror within forty-five (45) days after the later of: (a) notice from VDOT that it has awarded the Design-Build Contract to another Offeror; or (b) notice from VDOT that the procurement for the Project has been cancelled and that there will be no Contract Award.

5. **Effective Date of this Agreement.** The rights and obligations of VDOT and Offeror under this Agreement, including VDOT's ownership rights in Offeror's Intellectual Property, vests upon the date that Offeror's Proposal is submitted to VDOT. Notwithstanding the above, if Offeror's Proposal is determined by VDOT, in its sole discretion, to be nonresponsive to the RFP, then Offeror is deemed to have waived its right to obtain the Proposal Payment, and VDOT shall have no obligations under this Agreement.

6. **Indemnity.** Subject to the limitation contained below, Offeror shall, at its own expense, indemnify, protect and hold harmless VDOT and its agents, directors, officers, employees, representatives and contractors from all claims, costs, expenses, liabilities, demands, or suits at law or equity (“Claims”) of, by or in favor of or awarded to any third party arising in whole or in part from: (a) the negligence or wilful misconduct of Offeror or any of its agents, officers, employees, representatives or subcontractors; or (b) breach of any of Offeror’s obligations under this Agreement, including its representation and warranty under Section 8 hereof. This indemnity shall not apply with respect to any Claims caused by or resulting from the sole negligence or wilful misconduct of VDOT, or its agents, directors, officers, employees, representatives or contractors.

7. **Assignment.** Offeror shall not assign this Agreement, without VDOT’s prior written consent, which consent may be given or withheld in VDOT’s sole discretion. Any assignment of this Agreement without such consent shall be null and void.

8. **Authority to Enter into this Agreement.** By executing this Agreement, Offeror specifically represents and warrants that it has the authority to convey to VDOT all rights, title, and interest in Offeror’s Intellectual Property, including, but not limited to, those any rights that might have been vested in team members, subcontractors, consultants or anyone else who may have contributed to the development of Offeror’s Intellectual Property, free and clear of all liens, claims and encumbrances.

9. **Miscellaneous.**

a. Offeror and VDOT agree that Offeror, its team members, and their respective employees are not agents of VDOT as a result of this Agreement.

b. Any capitalized term used herein but not otherwise defined shall have the meanings set forth in the RFP.

c. This Agreement, together with the RFP, embodies the entire agreement of the parties with respect to the subject matter hereof. There are no promises, terms, conditions, or obligations other than those contained herein or in the RFP, and this Agreement shall supersede all previous communications, representations, or agreements, either verbal or written, between the parties hereto.

d. It is understood and agreed by the parties hereto that if any part, term, or provision of this Agreement is by the courts held to be illegal or in conflict with any law of the Commonwealth of Virginia, validity of the remaining portions or provisions shall not be affected, and the rights and obligations of the parties shall be construed and enforced as if the Agreement did not contain the particular part, term, or provisions to be invalid.

e. This Agreement shall be governed by and construed in accordance with the laws of the Commonwealth of Virginia.

**IN WITNESS WHEREOF**, this Agreement has been executed and delivered as of the day and year first above written.

VIRGINIA DEPARTMENT OF TRANSPORTATION

By: \_\_\_\_\_

Name: \_\_\_\_\_

Title: \_\_\_\_\_

[Insert Offeror's Name] Shirley Contracting Company, LLC

By:  \_\_\_\_\_

Name: Michael E. Post

Title: President/CEO/Manager

## 4.1.8 - Debarment Forms

**ATTACHMENT 11.8.6(a)**  
**CERTIFICATION REGARDING DEBARMENT**  
**PRIMARY COVERED TRANSACTIONS**

**Project No.: 0095-969-720**

1) The prospective primary participant certifies to the best of its knowledge and belief, that it and its principals:

a) Are not presently debarred, suspended, proposed for debarment, declared ineligible, or voluntarily excluded from covered transactions by any Federal department or agency.

b) Have not within a three-year period preceding this proposal been convicted of or had a civil judgment rendered against them for commission of fraud or a criminal offense in connection with obtaining, attempting to obtain, or performing a public (Federal, State or local) transaction or contract under a public transaction; and have not been convicted of any violations of Federal or State antitrust statutes or commission of embezzlement, theft, forgery, bribery, falsification, or destruction of records, making false statements, or receiving stolen property;

c) Are not presently indicted for or otherwise criminally or civilly charged by a governmental entity (Federal, State or local) with commission of any of the offenses enumerated in paragraph 1) b) of this certification; and

d) Have not within a three-year period preceding this application/proposal had one or more public transactions (Federal, State or local) terminated for cause or default.

2) Where the prospective primary participant is unable to certify to any of the statements in this certification, such prospective participant shall attach an explanation to this proposal.

The undersigned makes the foregoing statements to be filed with the proposal submitted on behalf of the Offeror for contracts to be let by the Commonwealth Transportation Board.

  
\_\_\_\_\_  
Signature

4/4/16

Date

\_\_\_\_\_  
President/CEO/Manager

Title

\_\_\_\_\_  
Shirley Contracting Company, LLC

Name of Firm

ATTACHMENT 11.8.6(b)  
CERTIFICATION REGARDING DEBARMENT  
LOWER TIER COVERED TRANSACTIONS

**Project No.: 0095-969-720**

- 1) The prospective lower tier participant certifies, by submission of this proposal, that neither it nor its principals is presently debarred, suspended, proposed for debarment, declared ineligible, or voluntarily excluded from participation in this transaction by any Federal department or agency.
- 2) Where the prospective lower tier participant is unable to certify to any of the statements in this certification, such prospective participant shall attach an explanation to this proposal.

The undersigned makes the foregoing statements to be filed with the proposal submitted on behalf of the Offeror for contracts to be let by the Commonwealth Transportation Board.

<i>Dave Mahoney</i>	<i>4/1/16</i>	<i>Executive Vice President</i>
Signature	Date	Title
<i>Dewberry Consultants LLC</i>		
Name of Firm		

**ATTACHMENT 11.8.6(b)**  
**CERTIFICATION REGARDING DEBARMENT**  
**LOWER TIER COVERED TRANSACTIONS**

**Project No.:** 0095-969-720

- 1) The prospective lower tier participant certifies, by submission of this proposal, that neither it nor its principals is presently debarred, suspended, proposed for debarment, declared ineligible, or voluntarily excluded from participation in this transaction by any Federal department or agency.
- 2) Where the prospective lower tier participant is unable to certify to any of the statements in this certification, such prospective participant shall attach an explanation to this proposal.

The undersigned makes the foregoing statements to be filed with the proposal submitted on behalf of the Offeror for contracts to be let by the Commonwealth Transportation Board.

	<b>April 4, 2016</b>	<b>President</b>
Signature	Date	Title

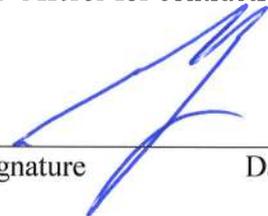
**Quinn Consulting Services, Inc.**  
Name of Firm

**ATTACHMENT 11.8.6(b)**  
**CERTIFICATION REGARDING DEBARMENT**  
**LOWER TIER COVERED TRANSACTIONS**

**Project No.: 0095-969-720**

- 1) The prospective lower tier participant certifies, by submission of this proposal, that neither it nor its principals is presently debarred, suspended, proposed for debarment, declared ineligible, or voluntarily excluded from participation in this transaction by any Federal department or agency.
  
- 2) Where the prospective lower tier participant is unable to certify to any of the statements in this certification, such prospective participant shall attach an explanation to this proposal.

The undersigned makes the foregoing statements to be filed with the proposal submitted on behalf of the Offeror for contracts to be let by the Commonwealth Transportation Board.

	April 4, 2016	VP of Business Development
Signature	Date	Title

Specialized Engineering  
Name of Firm

**ATTACHMENT 11.8.6(b)**  
**CERTIFICATION REGARDING DEBARMENT**  
**LOWER TIER COVERED TRANSACTIONS**

**Project No.: 0095-969-720**

- 1) The prospective lower tier participant certifies, by submission of this proposal, that neither it nor its principals is presently debarred, suspended, proposed for debarment, declared ineligible, or voluntarily excluded from participation in this transaction by any Federal department or agency.
  
- 2) Where the prospective lower tier participant is unable to certify to any of the statements in this certification, such prospective participant shall attach an explanation to this proposal.

The undersigned makes the foregoing statements to be filed with the proposal submitted on behalf of the Offeror for contracts to be let by the Commonwealth Transportation Board.



Signature

3/28/16  
Date

President  
Title

GeoConcepts Engineering, Inc.  
Name of Firm

ATTACHMENT 11.8.6(b)  
CERTIFICATION REGARDING DEBARMENT  
LOWER TIER COVERED TRANSACTIONS

**Project No.: 0095-969-720**

- 1) The prospective lower tier participant certifies, by submission of this proposal, that neither it nor its principals is presently debarred, suspended, proposed for debarment, declared ineligible, or voluntarily excluded from participation in this transaction by any Federal department or agency.
- 2) Where the prospective lower tier participant is unable to certify to any of the statements in this certification, such prospective participant shall attach an explanation to this proposal.

The undersigned makes the foregoing statements to be filed with the proposal submitted on behalf of the Offeror for contracts to be let by the Commonwealth Transportation Board.

Mark L. Goldman      3-28-16      MANAGER  
Signature                      Date                      Title

SO-DEEP, INC.  
Name of Firm

**ATTACHMENT 11.8.6(b)**  
**CERTIFICATION REGARDING DEBARMENT**  
**LOWER TIER COVERED TRANSACTIONS**

**Project No.: 0095-969-720**

- 1) The prospective lower tier participant certifies, by submission of this proposal, that neither it nor its principals is presently debarred, suspended, proposed for debarment, declared ineligible, or voluntarily excluded from participation in this transaction by any Federal department or agency.
  
- 2) Where the prospective lower tier participant is unable to certify to any of the statements in this certification, such prospective participant shall attach an explanation to this proposal.

The undersigned makes the foregoing statements to be filed with the proposal submitted on behalf of the Offeror for contracts to be let by the Commonwealth Transportation Board.

	3/22/16	President
Signature	Date	Title

Diversified Property Services, Inc.

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Name of Firm

ATTACHMENT 11.8.6(b)  
CERTIFICATION REGARDING DEBARMENT  
LOWER TIER COVERED TRANSACTIONS

Project No.: 0095-969-720

- 1) The prospective lower tier participant certifies, by submission of this proposal, that neither it nor its principals is presently debarred, suspended, proposed for debarment, declared ineligible, or voluntarily excluded from participation in this transaction by any Federal department or agency.
- 2) Where the prospective lower tier participant is unable to certify to any of the statements in this certification, such prospective participant shall attach an explanation to this proposal.

The undersigned makes the foregoing statements to be filed with the proposal submitted on behalf of the Offeror for contracts to be let by the Commonwealth Transportation Board.

Robert Ruske      3-21-16      Settlement officer  
Signature                      Date                      Title

DD Dominion Settlements, Inc., T/A      Key Title  
Name of Firm

**ATTACHMENT 11.8.6(b)**  
**CERTIFICATION REGARDING DEBARMENT**  
**LOWER TIER COVERED TRANSACTIONS**

**Project No.: 0095-969-720**

- 1) The prospective lower tier participant certifies, by submission of this proposal, that neither it nor its principals is presently debarred, suspended, proposed for debarment, declared ineligible, or voluntarily excluded from participation in this transaction by any Federal department or agency.
  
- 2) Where the prospective lower tier participant is unable to certify to any of the statements in this certification, such prospective participant shall attach an explanation to this proposal.

The undersigned makes the foregoing statements to be filed with the proposal submitted on behalf of the Offeror for contracts to be let by the Commonwealth Transportation Board.

<u>L Scott Whay</u>	<u>3/28/2016</u>	<u>Ceo</u>
Signature	Date	Title

Elite Contracting Group Inc  
Name of Firm

## 4.2 Attachments to the Letter of Submittal

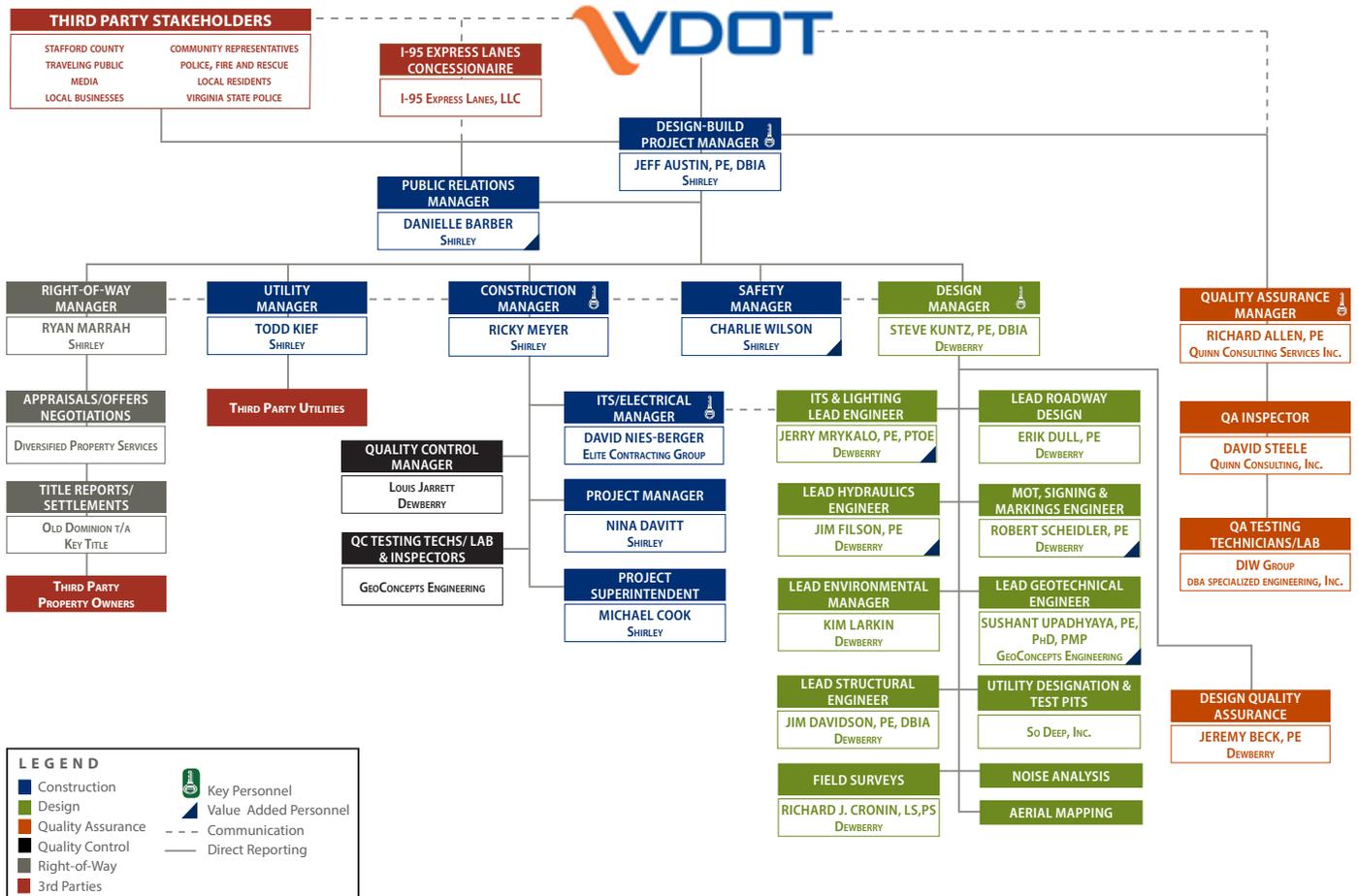
## 4.2.1 - Organizational Chart & Key Personnel



# 4.2.1 Organizational Chart & Key Personnel

## Introduction

We confirm that the organizational chart shown below and Key Personnel as contained in our Statement of Qualifications remain true and accurate. As there have been no changes to the organizational chart, an updated narrative is not applicable.



## 4.2.1 Organizational Chart & Key Personnel

Major Project Disciplines include:

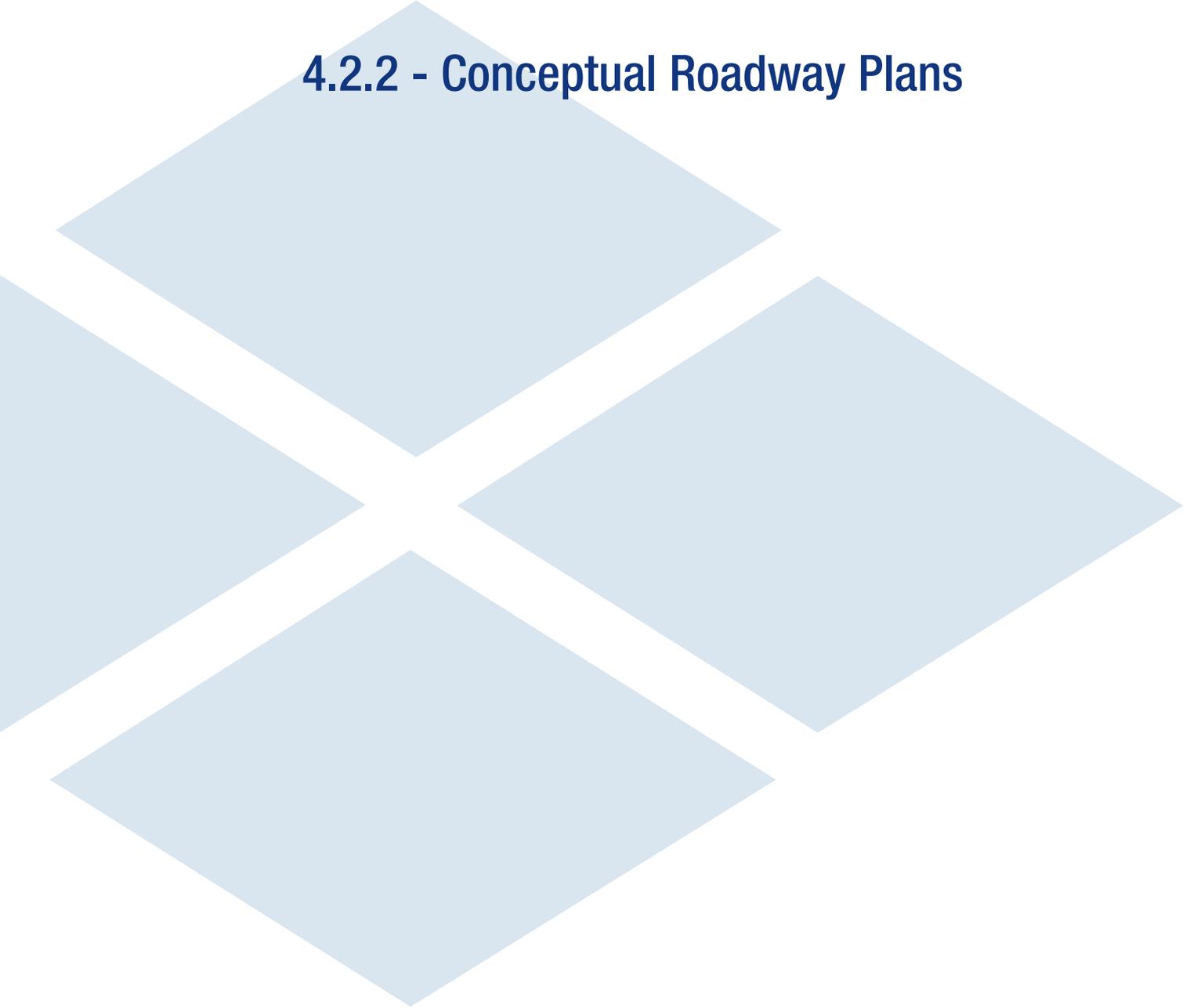
***Design-Build Project Manager (Jeff Austin, PE)*** is tasked with full and complete authority over all aspects of the Shirley Team's responsibilities. In addition to being the primary point of contact with VDOT after award of the Project, Jeff has ultimate responsibility for Contract Management and to coordinate and integrate all project disciplines. He has full authority to resolve all disputes or disagreements through best efforts and good faith negotiations with the Department's Representatives. Jeff will also lead as appropriate, and serve as the primary support in VDOT's efforts to communicate with all third-party stakeholders and coordinate all public outreach efforts, public meetings, and answer project inquiries.

***Quality Assurance Manager (Richard Allen, PE)*** reports directly to the D-B PM and is completely independent from the construction operations and QC inspections. Tom has full responsibility for assuring that the Project is in compliance with the Contract Documents, manages all aspects of the QA program, and will direct the QA inspections by the QA inspector and independent QA testing technicians. This position is unique in that the Richard has the autonomy to report findings directly to VDOT in addition to the D-B PM, and if the work is not in compliance with the Contract Documents, he has the authority to unilaterally halt or suspend the work and the responsibility to assure corrective action is taken before the work is accepted and certified for payment.

***Design Manager (Steve Kuntz, PE, DBIA)*** reports to the D-B PM and has overall responsibility for management on all aspects of the design process. Of vital importance is Steve's role in integrating the various design disciplines with the construction, right-of-way, utility, and safety elements. He establishes and oversees the Design QA/QC program and ensures that design QA and QC functions shall be exclusively designated and shall not be assigned to perform conflicting duties or production work, as outlined in the VDOT Minimum Requirements for Quality Assurance and Quality Control on Design-Build and P3 Projects. Steve remains involved during the construction phase to support implementation of the design.

***Construction Manager (Ricky Meyer)*** reports to the D-B PM and has the responsibility to manage all aspects of construction and the Quality Control process. Prior to construction, Ricky will facilitate all constructability reviews for the design, work closely with the Utility Manager to plan relocations, and coordinate with the Right-of-Way Manager to prioritize and schedule acquisitions. During construction, he is on site at all times, and maintains the project schedule, coordinates with the QC Manager, Project Manager, and Superintendent to ensure all construction materials and activities are in accordance with the Contract Documents. Ricky communicates with the Design Manager to arrange for design engineer's review of construction activities through the witness and hold points.

## 4.2.2 - Conceptual Roadway Plans





## 4.2.2 Conceptual Roadway Plans

Conceptual Roadway Plans showing the general Project layout can be found in Volume II.

## 4.2.4.1 - Proposal Schedule



## 4.2.4.1 **Proposal Schedule**

The Proposal Schedule can be found in Volume II.

## 4.2.4.2 - Proposal Schedule Narrative



## 4.2.4.2 **Proposal Schedule Narrative**

The Proposal Schedule Narrative can be found in Volume II.

Response to Request for Proposals

# I-95 EXPRESS LANES - SOUTHERN TERMINUS EXTENSION

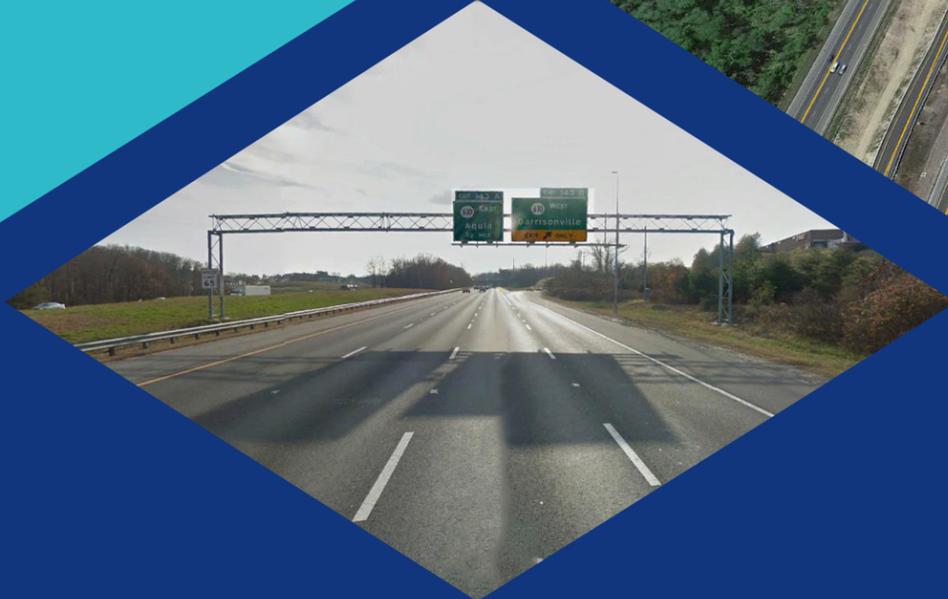
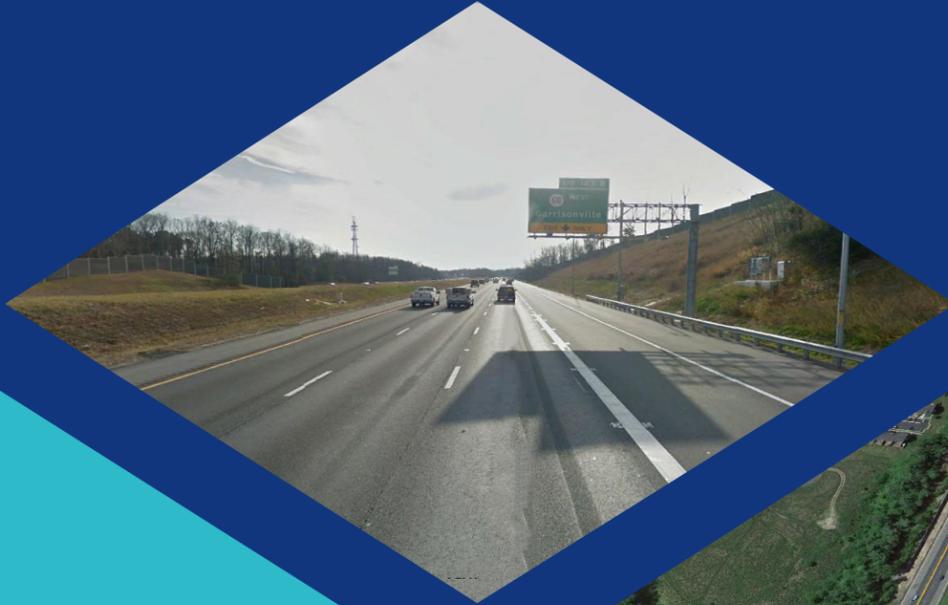
Stafford County, Virginia

State Project No.: 0095-969-720, P101, R201, C501

Federal Project No.: STP-000S (321)

Contract ID Number: C00108315DB90

## VOLUME II: CONCEPTUAL PLANS AND PROPOSAL SCHEDULE



SUBMITTED BY:



IN ASSOCIATION WITH:



# 4.2.2 - Conceptual Roadway Plans



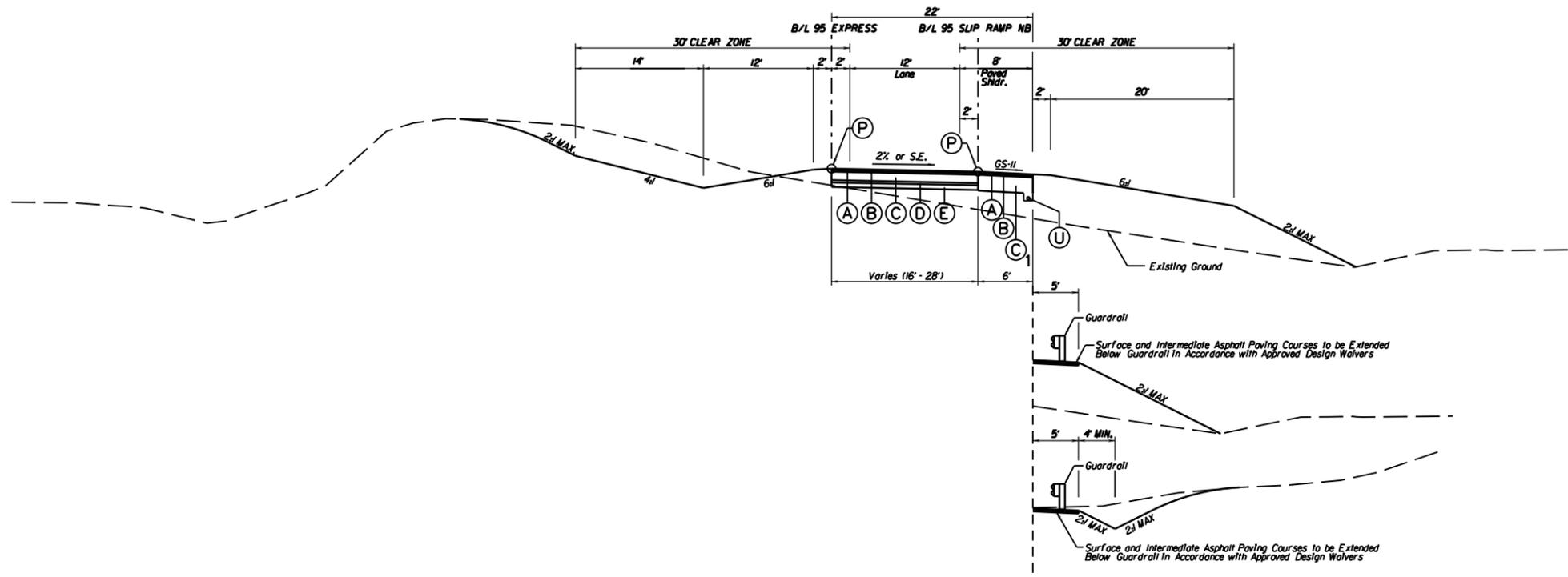
PROJECT MANAGER \_\_\_\_\_  
SURVEYED BY, DATE \_\_\_\_\_  
DESIGN BY Dewberry Consultants, LLC - (703) 289-4796  
SUBSURFACE UTILITY BY, DATE \_\_\_\_\_

# TYPICAL SECTIONS

REVISED	STATE	ROUTE	STATE	PROJECT	SHEET NO.
	VA.	95		(INFO) 0095-969-720 P-101, R-201, C-501	2A(1)

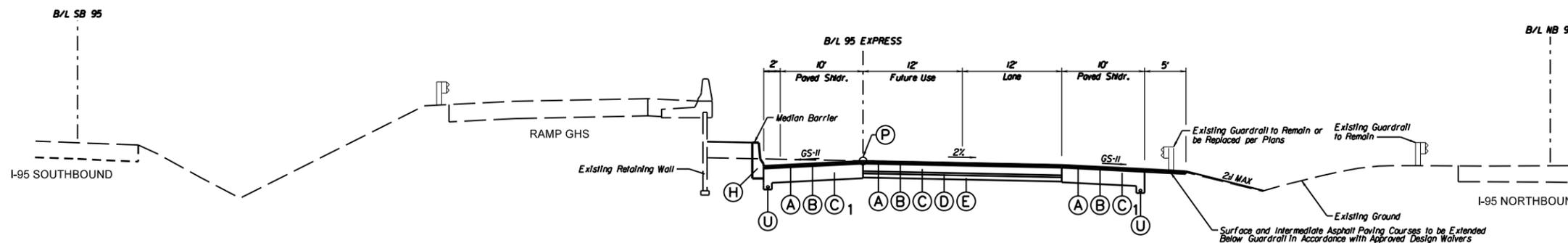
DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT

**THESE PLANS ARE UNFINISHED AND UNAPPROVED AND ARE NOT TO BE USED FOR ANY TYPE OF CONSTRUCTION OR THE ACQUISITION OF RIGHT OF WAY.**



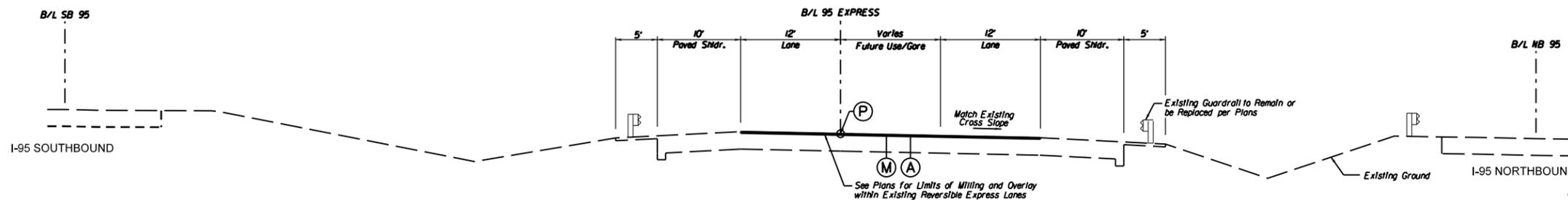
## 95 EXPRESS LANES - REVERSIBLE NB & SB 95 EXPRESS LANES - SLIP RAMPS

95 EXT. NB Ramp Sta. 4225+46.20 to Sta. 4232+14.56  
95 EXT. SB Ramp Sta. 1221+29.75 to Sta. 1231+32.90  
95 Express Sta. 1231+32.90 to Sta. 1298+50.00



## 95 EXPRESS LANES - REVERSIBLE

95 Express Sta. 1298+50.00 to Sta. 1310+83.16



## 95 EXPRESS LANES - REVERSIBLE

95 Express Sta. 1310+83.16 to NB 95 Sta. 3349+15.82



### LEGEND

- |   |  |                                   |                               |
|---|--|-----------------------------------|-------------------------------|
| (A) 2" Asphalt Concrete, Type SM-12.5E  | (C) 11.0" Asphalt Concrete, Type BM-25.0A                        | (E) 6.0" Cement Treated Aggregate | (M) Mill existing pavement 4" |
| (B) 2.0" Asphalt Concrete, Type IM-19.0A  | (C <sub>1</sub> ) 21.0" Aggregate Base Material, Type I size 21B | (H) Barrier, S'd. MB-7F           | (P) Profile Grade Line        |
| (B <sub>1</sub> ) Wedge and Leveling Min.<br>2" Asphalt Concrete, Type IM-19.0A | (D) 3.0" Stabilized Open Graded Drainage Layer                   | (M) Mill existing pavement 2"     | (U) Underdrain, S'd. UD-4     |

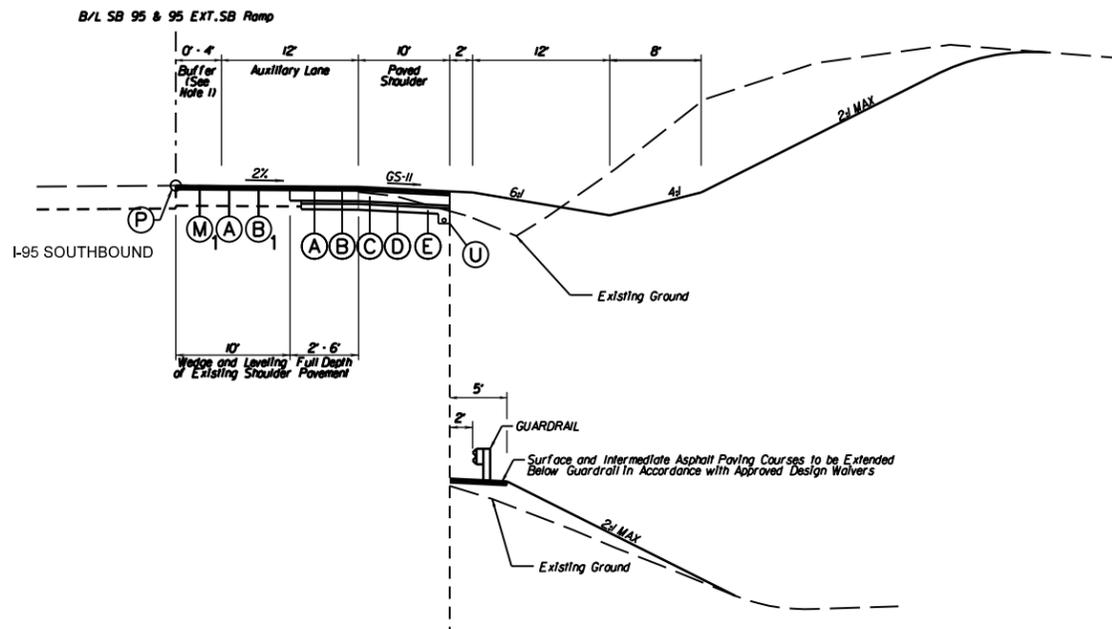
PROJECT MANAGER \_\_\_\_\_  
SURVEYED BY, DATE \_\_\_\_\_  
DESIGN BY Dewberry Consultants, LLC - (703) 289-4796  
SUBSURFACE UTILITY BY, DATE \_\_\_\_\_

# TYPICAL SECTIONS

REVISED	STATE	ROUTE	STATE	PROJECT	SHEET NO.
	VA.	95		(INFO) 0095-969-720 P-101, R-201, C-501	2A(2)

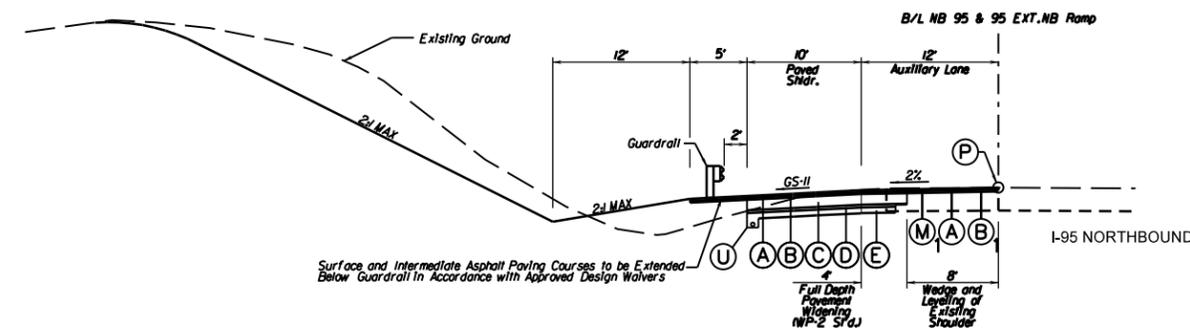
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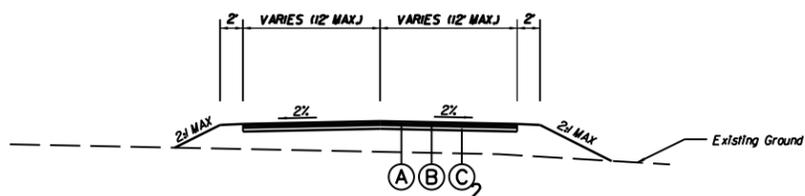
**SB 95 AUXILIARY LANE WIDENING**

SB 95 Sta. 2193+00.00 to 95 EXT. SB Ramp Sta. 1221+29.75

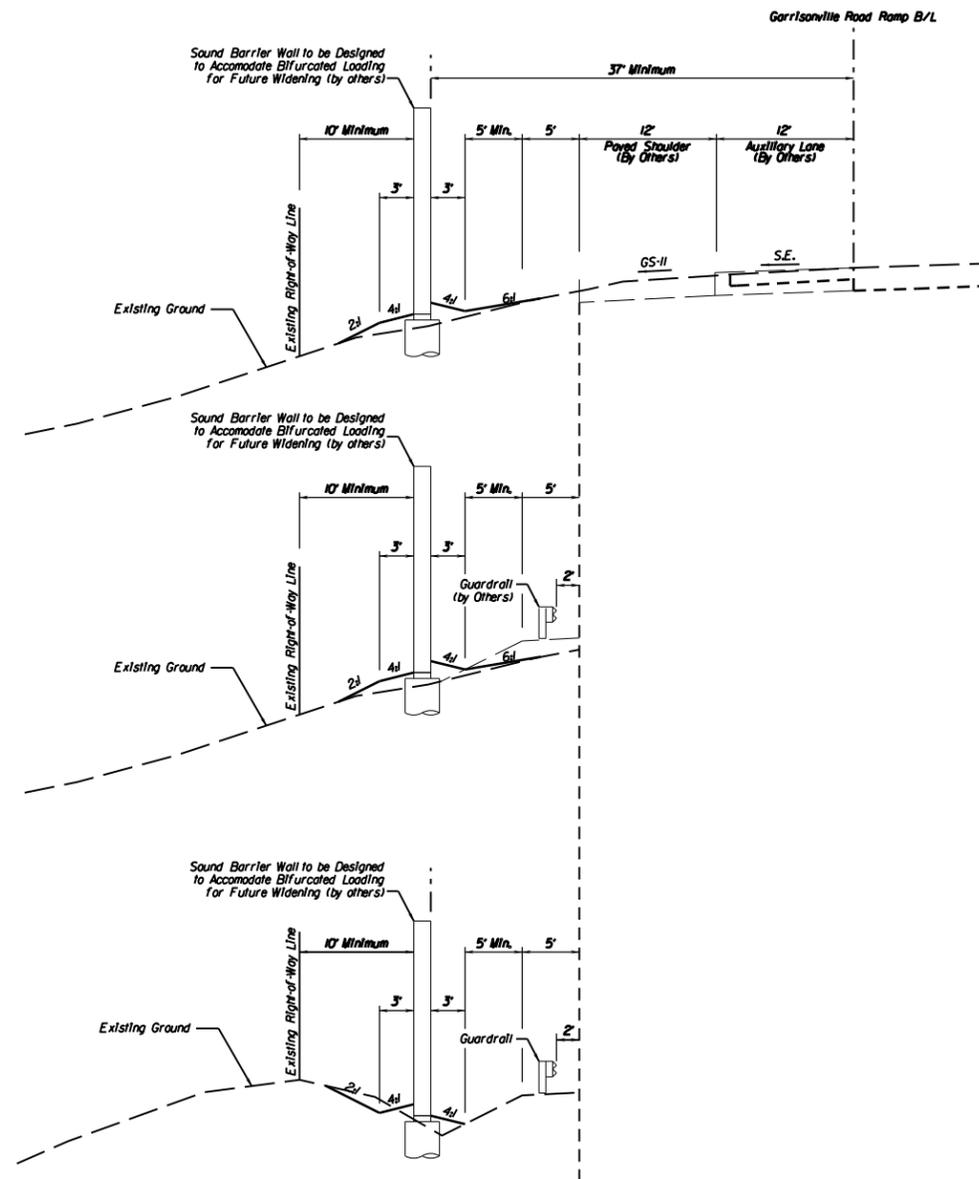


**NB 95 AUXILIARY LANE WIDENING**

NB 95 Sta. 3200+00.00 to 95 EXT. NB Ramp Sta. 4225+46.20



**95 EXPRESS LANES - EMERGENCY CROSSOVER**



**SB 95 SOUND BARRIER WALL**

SB 95 Sta. 2190+00.00 to Garrisonville Road Ramp Sta. 15+80.72

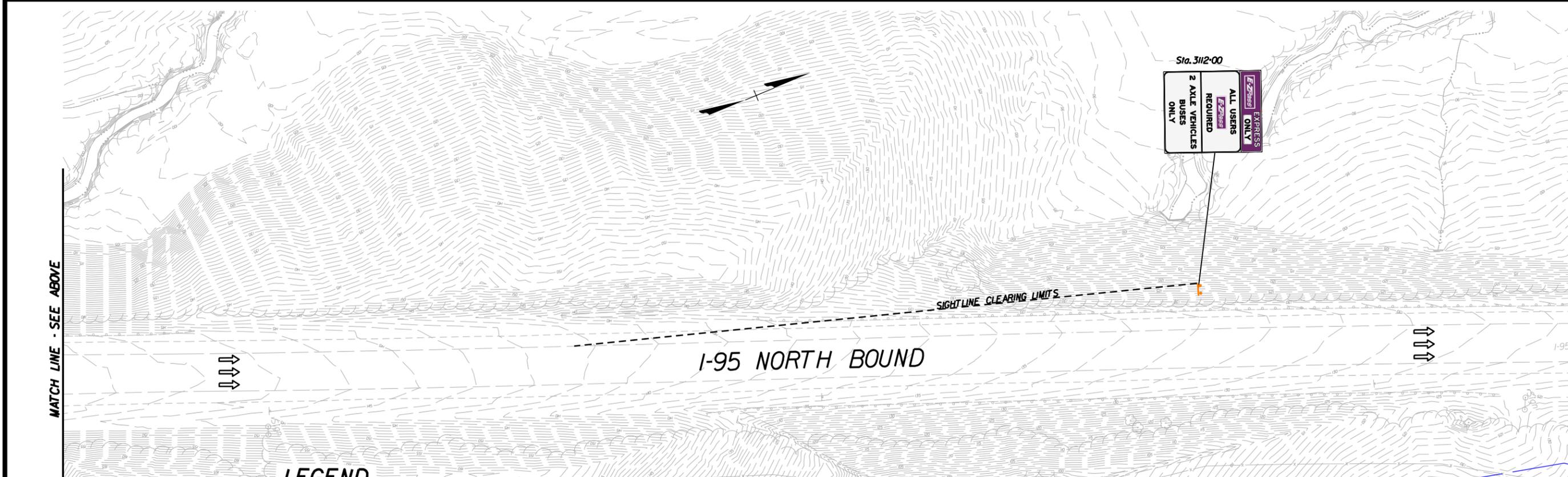
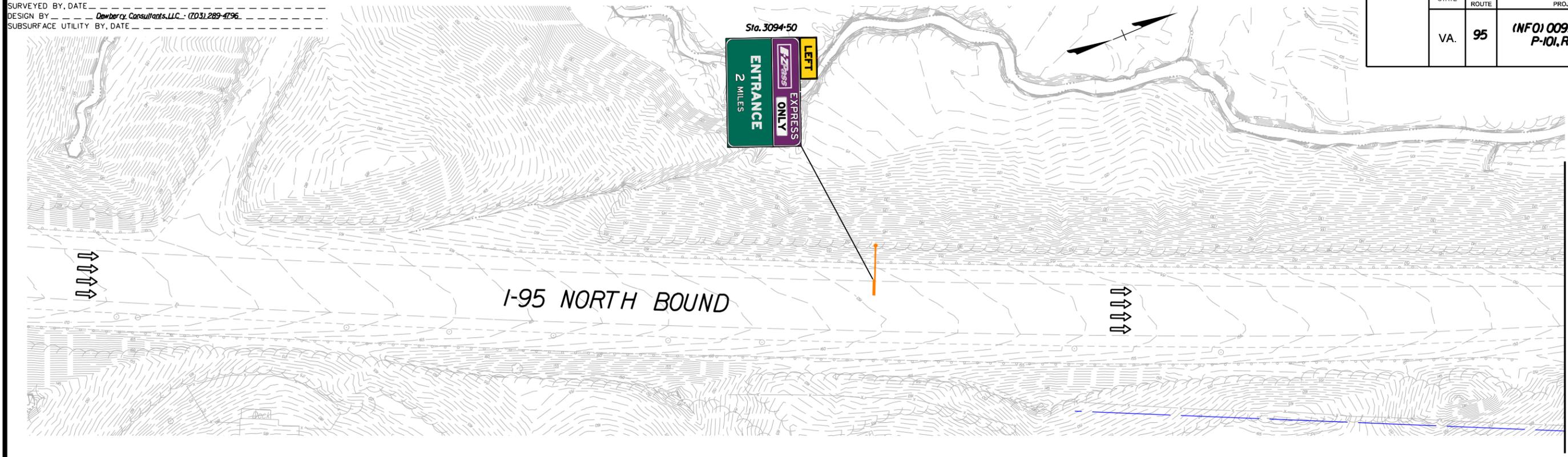


**LEGEND**

- |  |   |                                   |  |
|--|---|-----------------------------------|--|
| (A) 2" Asphalt Concrete, Type SM-12.5E   | (C) 11.0" Asphalt Concrete, Type BM-25.0A                       | (E) 6.0" Cement Treated Aggregate | (M) <sub>1</sub> Mill existing pavement 4" |
| (B) 2.0" Asphalt Concrete, Type IM-19.0A                                       | (C) <sub>1</sub> 21.0" Aggregate Base Material, Type 1 size 21B | (H) Barrier, Std. MB-7F           | (P) Profile Grade Line                     |
| (B) <sub>1</sub> Wedge and Leveling Min.<br>2" Asphalt Concrete, Type IM-19.0A | (C) <sub>2</sub> 6.0" Aggregate Base Material, Type 1 size 21B  | (M) Mill existing pavement 2"     | (U) Underdrain, Std. UD-4                  |
| (D) 3.0" Stabilized Open Graded Drainage Layer                                 |   |                                   |  |

PROJECT MANAGER \_\_\_\_\_  
SURVEYED BY, DATE \_\_\_\_\_  
DESIGN BY Dewberry Consultants, LLC - (703) 289-4796  
SUBSURFACE UTILITY BY, DATE \_\_\_\_\_

REVISED	STATE	ROUTE	STATE	PROJECT	SHEET NO.
	VA.	95		(INFO) 0095-969-720 P-101, R-201, C-501	3



**LEGEND**

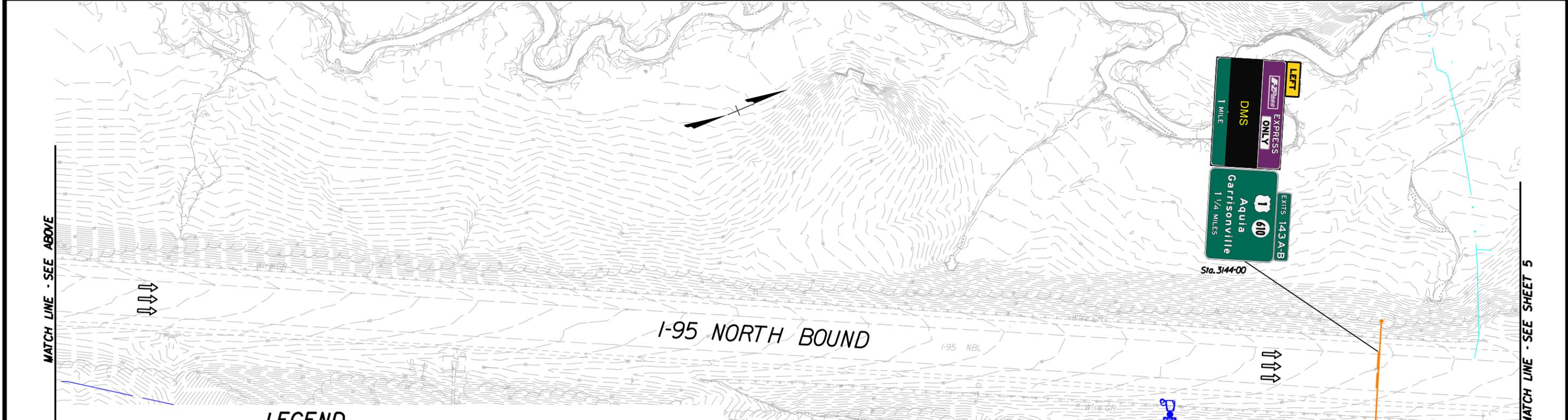
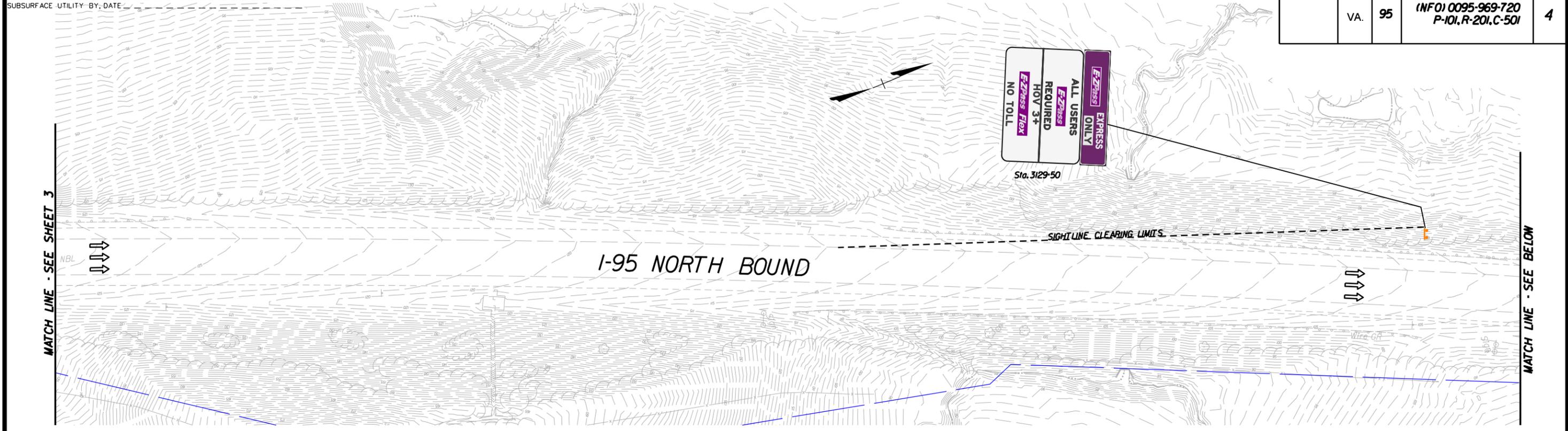
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Denotes Demolition of Pavement	Denotes Proposed Guardrail	Denotes Traffic Gate	Denotes Detector
Denotes Full Depth Shoulder	Denotes Proposed Concrete Barrier	Denotes Generator	Denotes CCTV Camera
Denotes Milling and Overlay	Denotes Existing Wetlands	Denotes Metered Service	Denotes Service Panel
	Denotes Emergency Crossover Full Depth Pavement	Denotes Light Pole	Denotes Automated Incident Detection Camera
		Denotes Sign Structure	

SCALE  
0 50' 100'

PROJECT 0095-969-720	SHEET NO. 3
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PROJECT MANAGER \_\_\_\_\_  
 SURVEYED BY, DATE \_\_\_\_\_  
 DESIGN BY Dewberry Consultants, LLC - (703) 289-4796  
 SUBSURFACE UTILITY BY, DATE \_\_\_\_\_

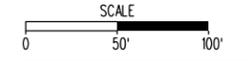
REVISED	STATE	ROUTE	STATE PROJECT	SHEET NO.
	VA.	95	(INFO) 0095-969-720 P-101, R-201, C-501	4



**LEGEND**



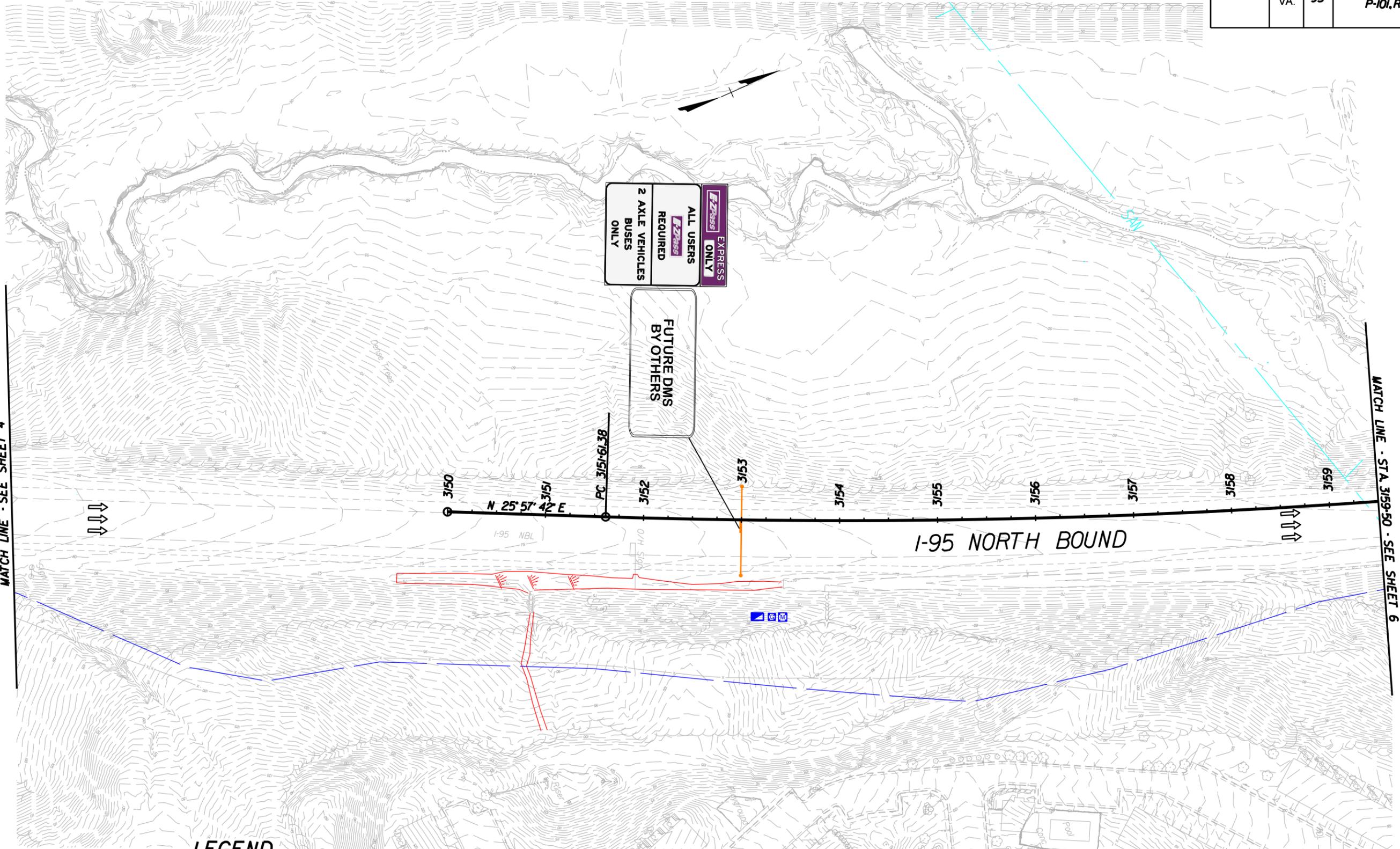
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| Denotes Demolition of Pavement | Denotes Proposed Guardrail                      | Denotes Traffic Gate    | Denotes Detector                            |
| Denotes Full Depth Shoulder    | Denotes Proposed Concrete Barrier               | Denotes Generator       | Denotes CCTV Camera                         |
| Denotes Milling and Overlay    | Denotes Existing Wetlands                       | Denotes Metered Service | Denotes Service Panel                       |
|                                | Denotes Emergency Crossover Full Depth Pavement | Denotes Light Pole      | Denotes Automated Incident Detection Camera |
|                                |   | Denotes Sign Structure  |   |



PROJECT	SHEET NO.
0095-969-720	4

PROJECT MANAGER \_\_\_\_\_  
 SURVEYED BY, DATE \_\_\_\_\_  
 DESIGN BY Dewberry Consultants, LLC - (703) 289-4796  
 SUBSURFACE UTILITY BY, DATE \_\_\_\_\_

REVISED	STATE	ROUTE	STATE	PROJECT	SHEET NO.
	VA.	95		(INFO) 0095-969-720 P-101, R-201, C-501	5



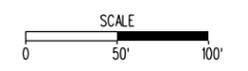
**EXPRESS ONLY**  
 ALL USERS  
 REQUIRED  
 2 AXLE VEHICLES  
 BUSES  
 ONLY

FUTURE DMS  
 BY OTHERS

**LEGEND**



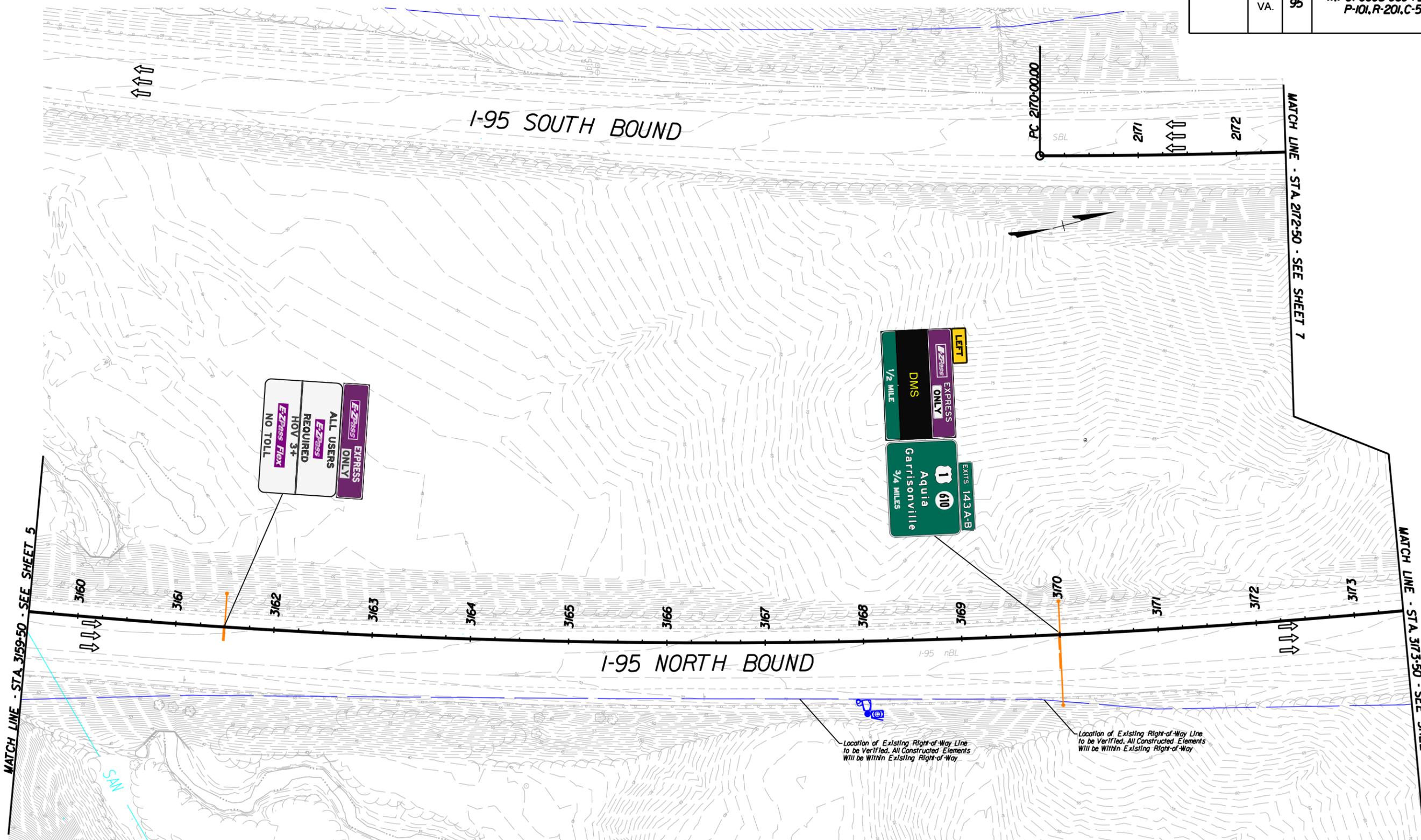
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| Denotes Demolition of Pavement                  | Denotes Proposed Guardrail                      | Denotes Traffic Gate    | Denotes Detector                            |
| Denotes Full Depth Shoulder                     | Denotes Proposed Concrete Barrier               | Denotes Generator       | Denotes CCTV Camera                         |
| Denotes Milling and Overlay                     | Denotes Existing Wetlands                       | Denotes Metered Service | Denotes Service Panel                       |
| Denotes Emergency Crossover Full Depth Pavement | Denotes Emergency Crossover Full Depth Pavement | Denotes Light Pole      | Denotes Automated Incident Detection Camera |
|   |   | Denotes Sign Structure  |   |



PROJECT	SHEET NO.
0095-969-720	5

PROJECT MANAGER \_\_\_\_\_  
 SURVEYED BY, DATE \_\_\_\_\_  
 DESIGN BY \_\_\_\_\_ Dewberry Consultants, LLC - (703) 289-4796  
 SUBSURFACE UTILITY BY, DATE \_\_\_\_\_

REVISED	STATE	ROUTE	STATE	PROJECT	SHEET NO.
	VA.	95		(INFO) 0095-969-720 P-101, R-201, C-501	6



**EXPRESS ONLY**  
 ALL USERS  
 REQUIRED  
 HOV 3+  
 E-ZPass Flex  
 NO TOLL

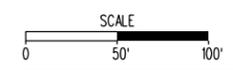
**LEFT**  
 EXPRESS ONLY  
 DMS  
 1/2 MILE

**EXIT 143A-B**  
 Aquia  
 Garrisonville  
 3/4 MILES

**LEGEND**



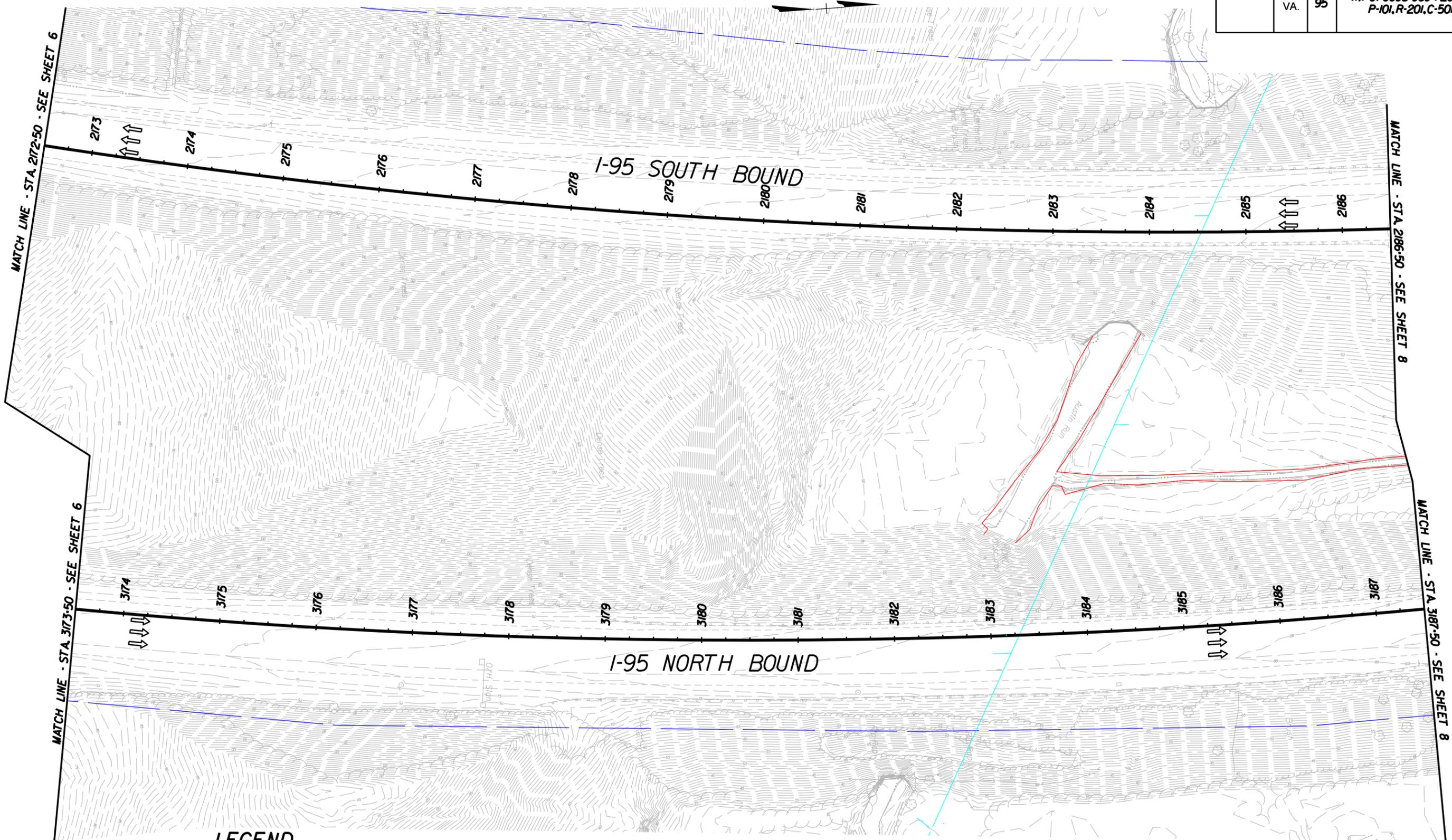
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- Denotes Equipment Cabinet
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- Denotes Proposed Guardrail
- Denotes Traffic Gate
- Denotes Detector
- Denotes Full Depth Shoulder
- Denotes Proposed Concrete Barrier
- Denotes Generator
- Denotes CCTV Camera
- Denotes Milling and Overlay
- Denotes Existing Wetlands
- Denotes Metered Service
- Denotes Service Panel
- Denotes Light Pole
- Denotes Automated Incident Detection Camera
- Denotes Emergency Crossover Full Depth Pavement
- Denotes Sign Structure



PROJECT	SHEET NO.
0095-969-720	6

PROJECT MANAGER \_\_\_\_\_  
 SURVEYED BY, DATE \_\_\_\_\_  
 DESIGN BY Dewberry Consultants, LLC - (703) 289-4796  
 SUBSURFACE UTILITY BY, DATE \_\_\_\_\_

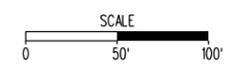
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	VA.	95		(INFO) 0095-969-720 P-101, R-201, C-501	7



**LEGEND**



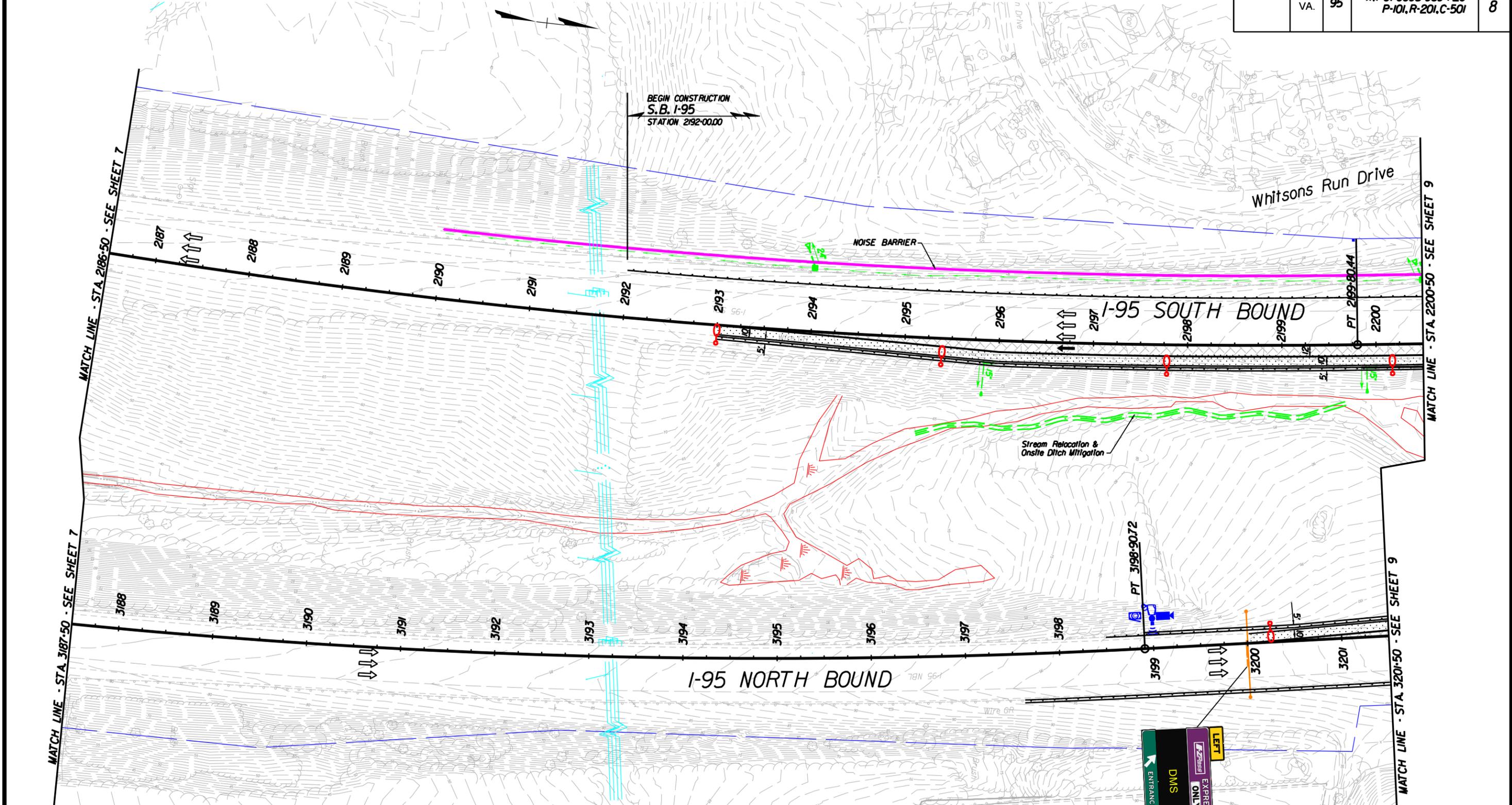
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| Denotes Demolition of Pavement | Denotes Proposed Guardrail                      | Denotes Traffic Gate    | Denotes Detector                            |
| Denotes Full Depth Shoulder    | Denotes Proposed Concrete Barrier               | Denotes Generator       | Denotes CCTV Camera                         |
| Denotes Milling and Overlay    | Denotes Existing Wetlands                       | Denotes Metered Service | Denotes Service Panel                       |
|                                | Denotes Emergency Crossover Full Depth Pavement | Denotes Light Pole      | Denotes Automated Incident Detection Camera |
|                                |   | Denotes Sign Structure  |   |



PROJECT	SHEET NO.
0095-969-720	7

PROJECT MANAGER \_\_\_\_\_  
SURVEYED BY, DATE \_\_\_\_\_  
DESIGN BY Dewberry Consultants, LLC - (703) 289-4796  
SUBSURFACE UTILITY BY, DATE \_\_\_\_\_

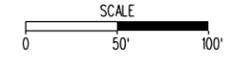
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	VA.	95	(INFO) 0095-969-720 P-101, R-201, C-501	8



**LEGEND**



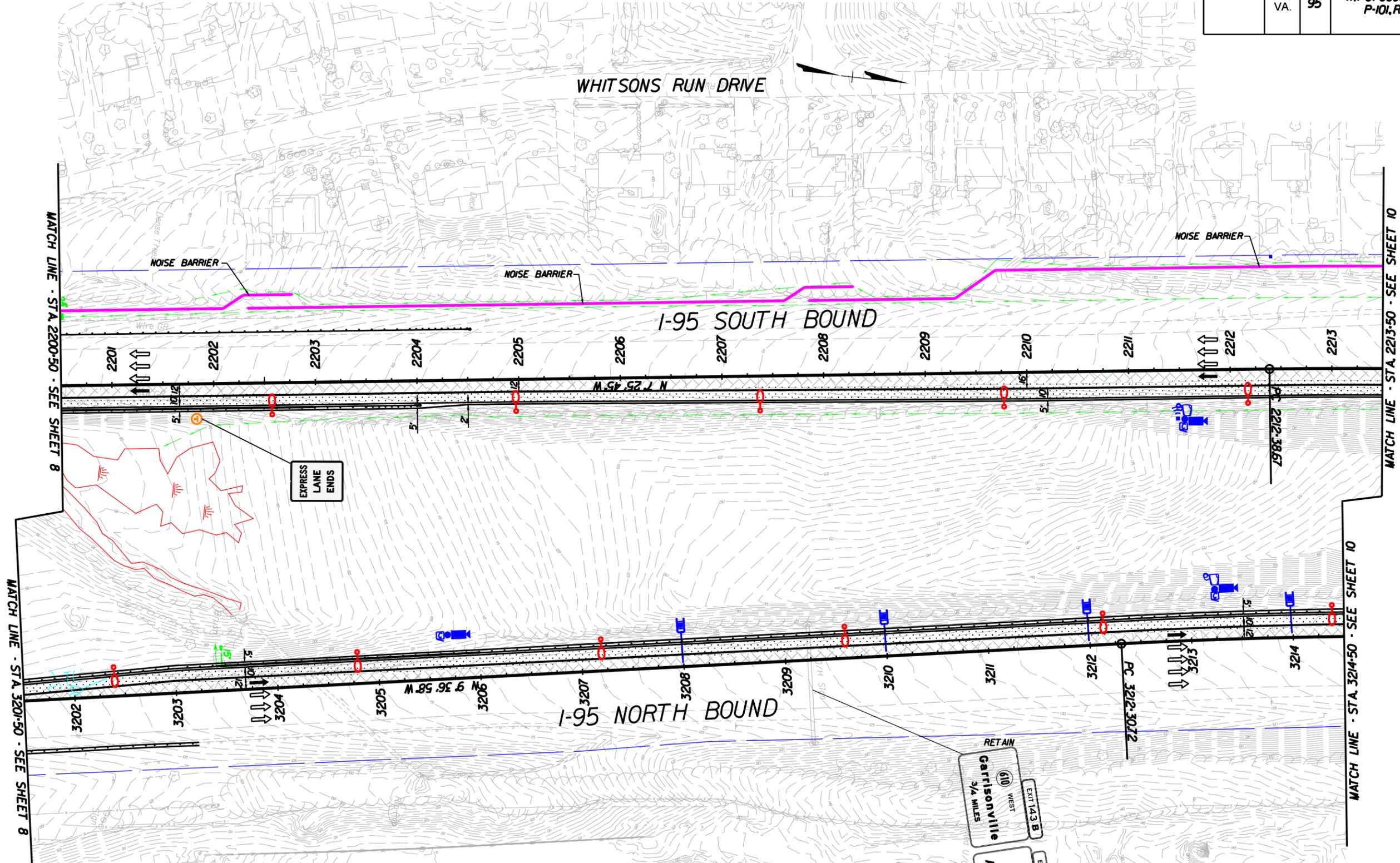
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| Denotes Full Depth Shoulder    | Denotes Proposed Concrete Barrier               | Denotes Generator       | Denotes CCTV Camera                         |
| Denotes Milling and Overlay    | Denotes Existing Wetlands                       | Denotes Metered Service | Denotes Service Panel                       |
|                                | Denotes Emergency Crossover Full Depth Pavement | Denotes Light Pole      | Denotes Automated Incident Detection Camera |
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PROJECT	SHEET NO.
0095-969-720	8

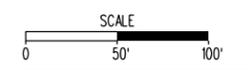
PROJECT MANAGER \_\_\_\_\_  
 SURVEYED BY, DATE \_\_\_\_\_  
 DESIGN BY \_\_\_\_\_ Dewberry Consultants, LLC - (703) 289-4796  
 SUBSURFACE UTILITY BY, DATE \_\_\_\_\_

REVISED	STATE	ROUTE	STATE	PROJECT	SHEET NO.
	VA.	95		(INFO) 0095-969-720 P-101, R-201, C-501	9



**LEGEND**

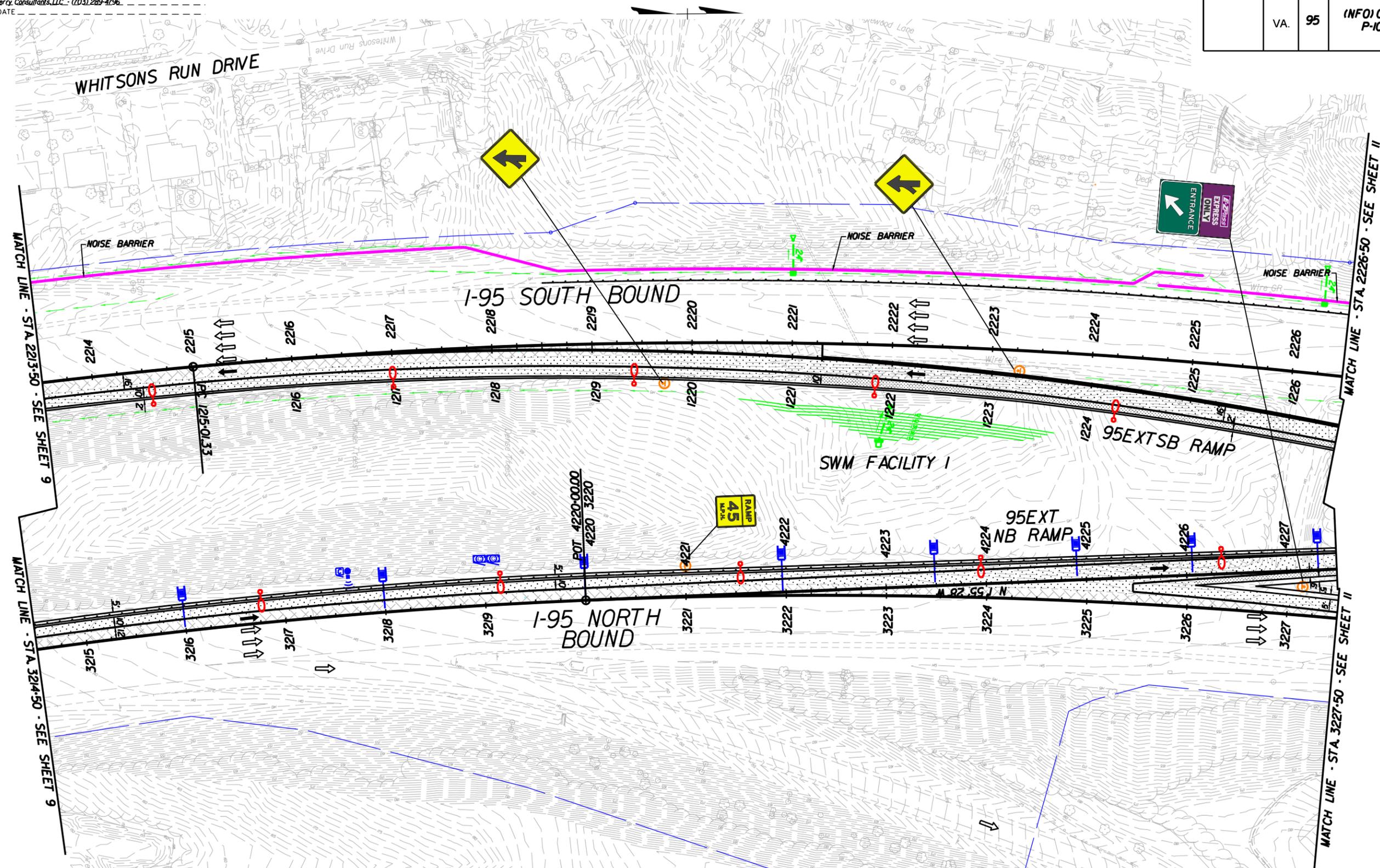
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| Denotes Milling and Overlay    | Denotes Existing Wetlands                       | Denotes Metered Service | Denotes Service Panel                       |
|                                | Denotes Emergency Crossover Full Depth Pavement | Denotes Light Pole      | Denotes Automated Incident Detection Camera |
|                                |   | Denotes Sign Structure  |   |



PROJECT	SHEET NO.
0095-969-720	9

PROJECT MANAGER \_\_\_\_\_  
SURVEYED BY, DATE \_\_\_\_\_  
DESIGN BY \_\_\_\_\_ Dewberry Consultants, LLC - (703) 289-4796  
SUBSURFACE UTILITY BY, DATE \_\_\_\_\_

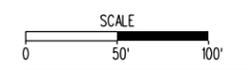
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	VA.	95		(INFO) 0095-969-720 P-101, R-201, C-501	10



**LEGEND**



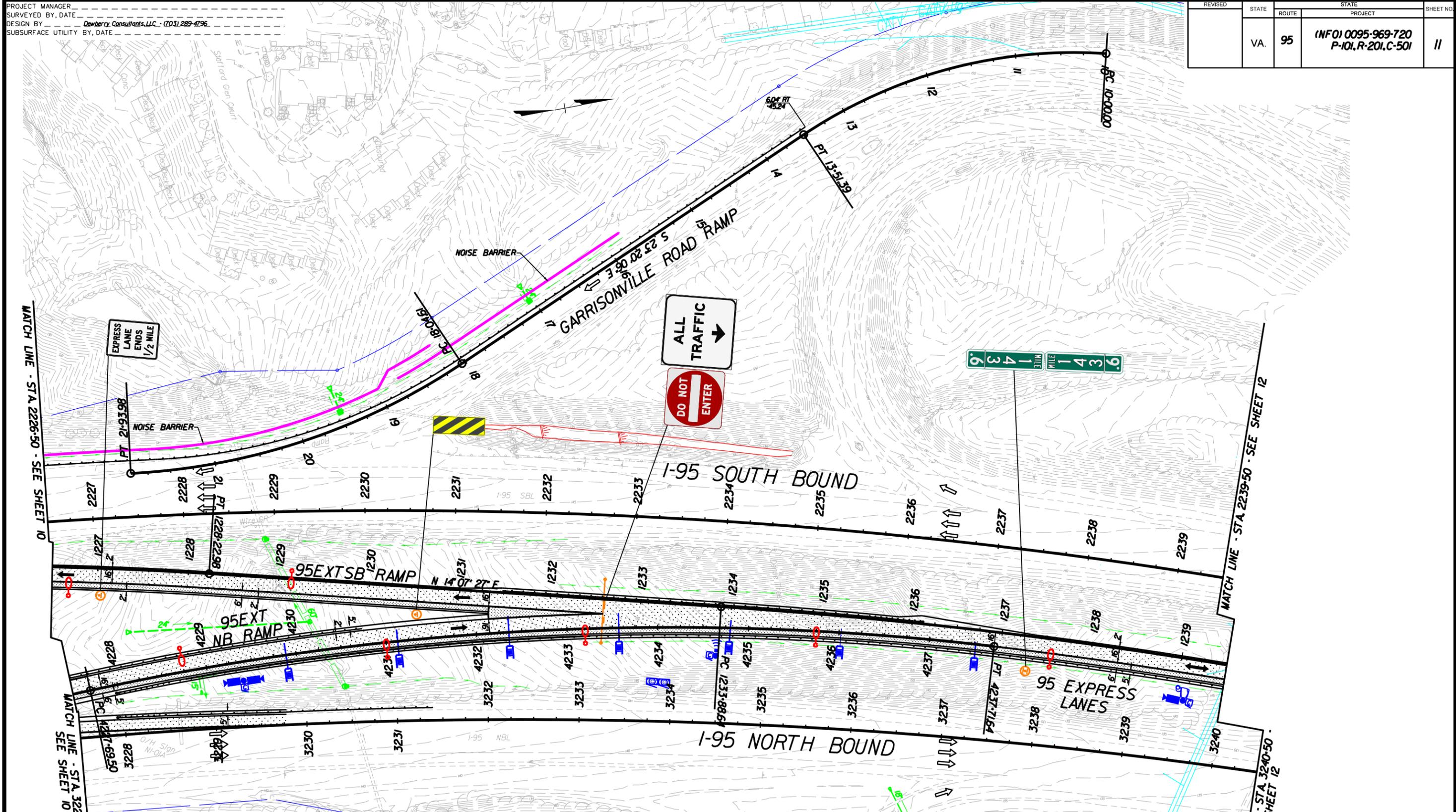
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|                                |   | Denotes Sign Structure  |   |



PROJECT	SHEET NO.
0095-969-720	10

PROJECT MANAGER \_\_\_\_\_  
 SURVEYED BY, DATE \_\_\_\_\_  
 DESIGN BY Dewberry Consultants, LLC - (703) 289-4796  
 SUBSURFACE UTILITY BY, DATE \_\_\_\_\_

REVISED	STATE	ROUTE	STATE	PROJECT	SHEET NO.
	VA.	95		(INFO) 0095-969-720 P-101, R-201, C-501	11



**SHIRLEY**  
CONTRACTING COMPANY, LLC  
**Dewberry**

**LEGEND**

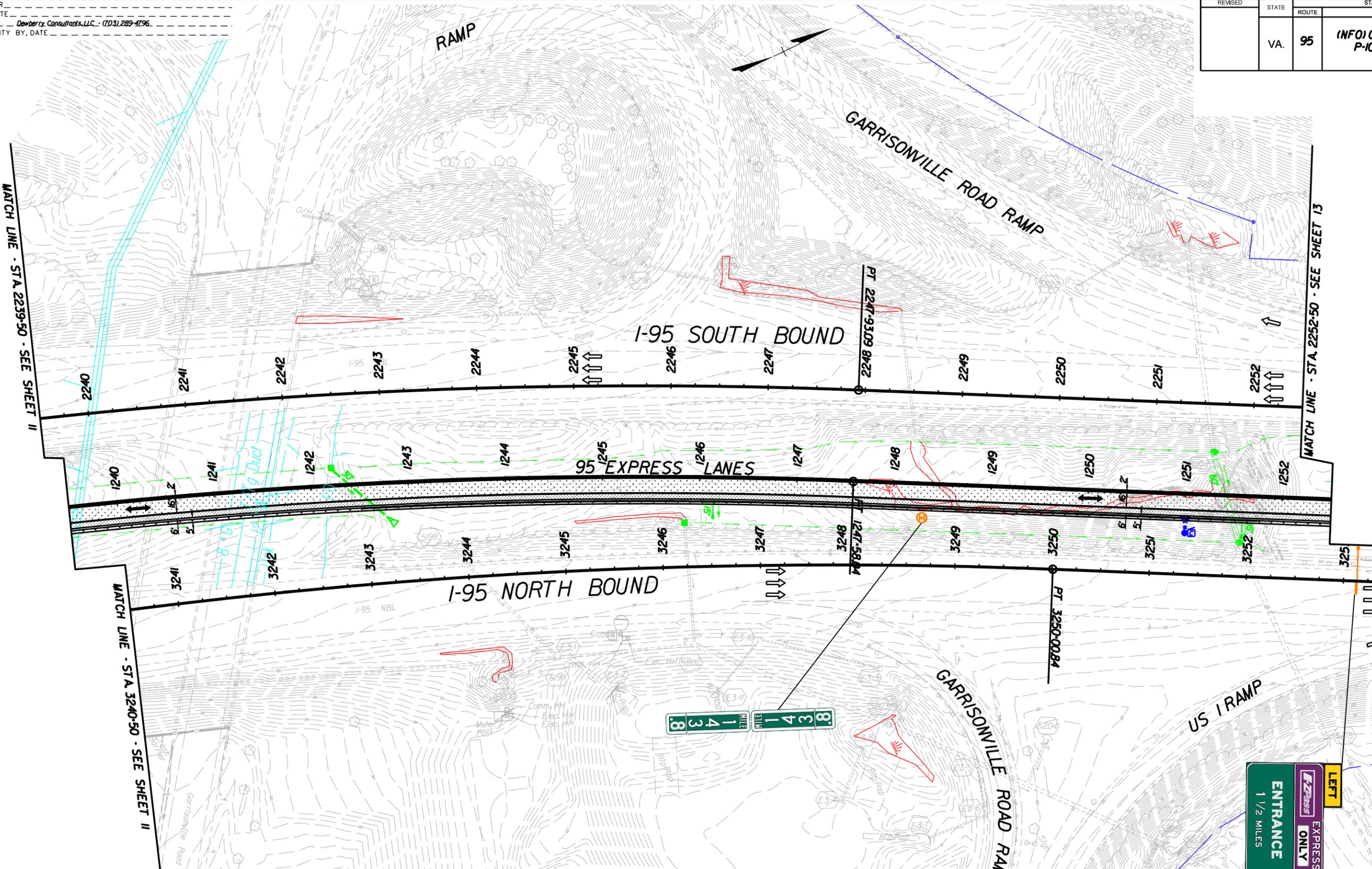
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Denotes Full Depth Shoulder	Denotes Proposed Concrete Barrier	Denotes Generator	Denotes CCTV Camera
Denotes Milling and Overlay	Denotes Existing Wetlands	Denotes Metered Service	Denotes Service Panel
	Denotes Emergency Crossover Full Depth Pavement	Denotes Light Pole	Denotes Automated Incident Detection Camera
		Denotes Sign Structure	

SCALE: 0' 50' 100'

PROJECT: 0095-969-720  
SHEET NO.: 11

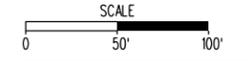
PROJECT MANAGER \_\_\_\_\_  
 SURVEYED BY, DATE \_\_\_\_\_  
 DESIGN BY Dewberry Consultants, LLC - (703) 289-4796  
 SUBSURFACE UTILITY BY, DATE \_\_\_\_\_

REVISED	STATE	ROUTE	STATE	PROJECT	SHEET NO.
	VA.	95		(INFO) 0095-969-720 P-101, R-201, C-501	12



**LEGEND**

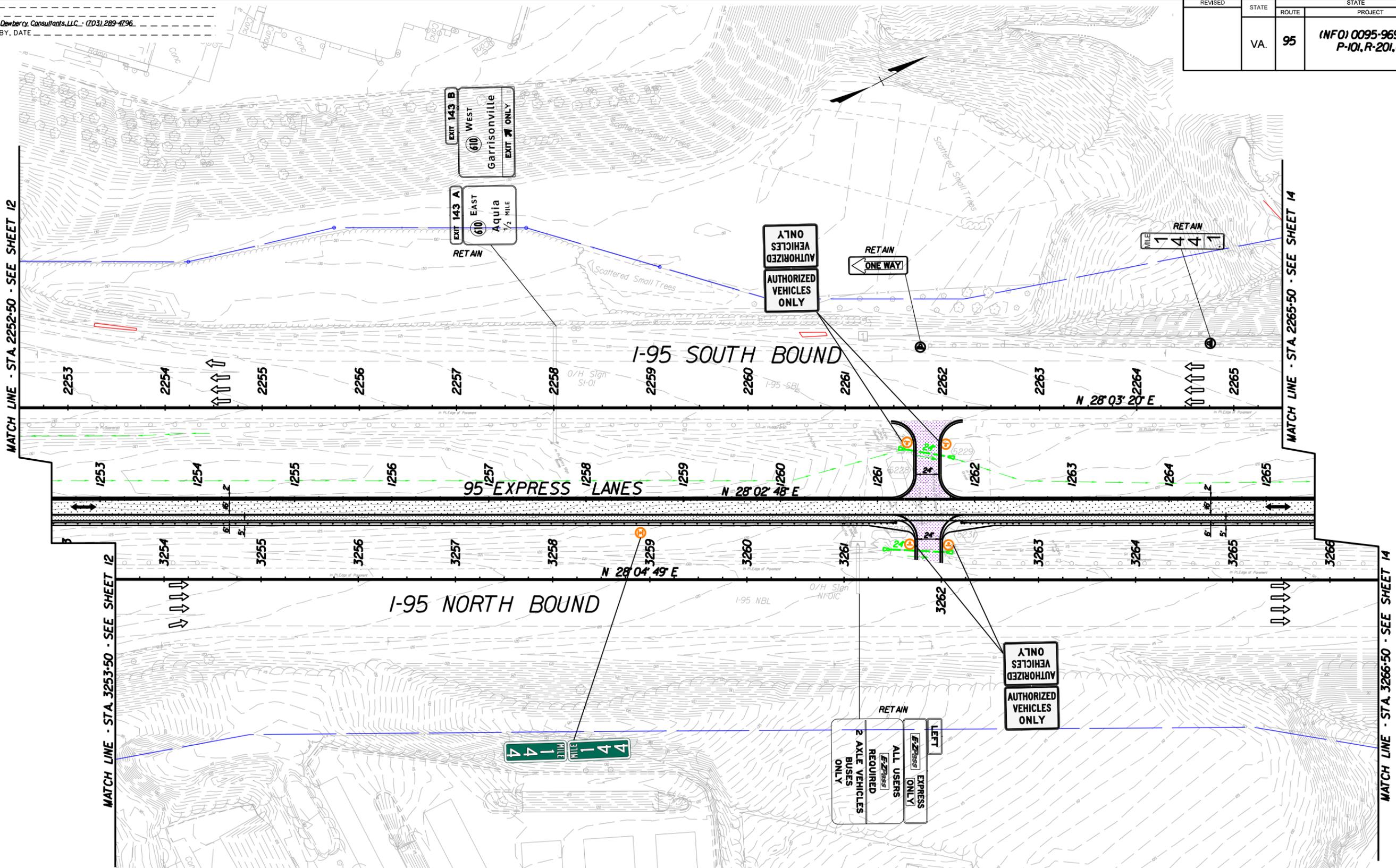
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| Denotes Milling and Overlay    | Denotes Existing Wetlands                       | Denotes Metered Service | Denotes Service Panel                       |
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PROJECT	SHEET NO.
0095-969-720	12

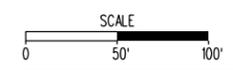
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 SURVEYED BY, DATE \_\_\_\_\_  
 DESIGN BY Dewberry Consultants, LLC - (703) 289-4796  
 SUBSURFACE UTILITY BY, DATE \_\_\_\_\_

REVISED	STATE	ROUTE	STATE	PROJECT	SHEET NO.
	VA.	95		(INFO) 0095-969-720 P-101, R-201, C-501	13



**LEGEND**

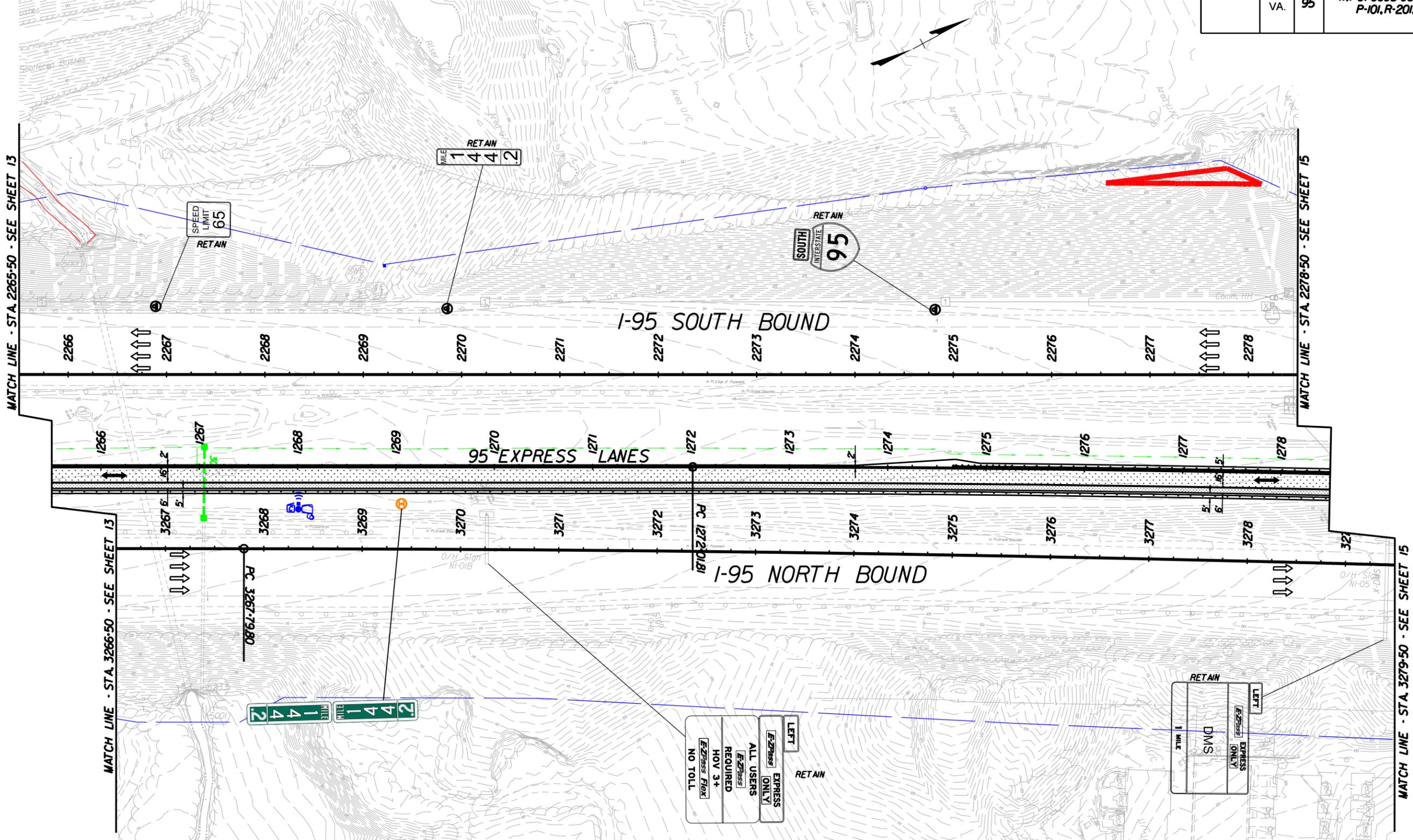
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| Denotes Milling and Overlay    | Denotes Existing Wetlands                       | Denotes Metered Service | Denotes Service Panel                       |
|                                | Denotes Emergency Crossover Full Depth Pavement | Denotes Light Pole      | Denotes Automated Incident Detection Camera |
|                                |   | Denotes Sign Structure  |   |



PROJECT	SHEET NO.
0095-969-720	13

PROJECT MANAGER \_\_\_\_\_  
SURVEYED BY, DATE \_\_\_\_\_  
DESIGN BY Dewberry Consultants, LLC - (703) 289-4796  
SUBSURFACE UTILITY BY, DATE \_\_\_\_\_

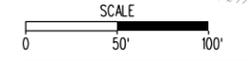
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	VA.	95		(INFO) 0095-969-720 P-101, R-201, C-501	14



**LEGEND**



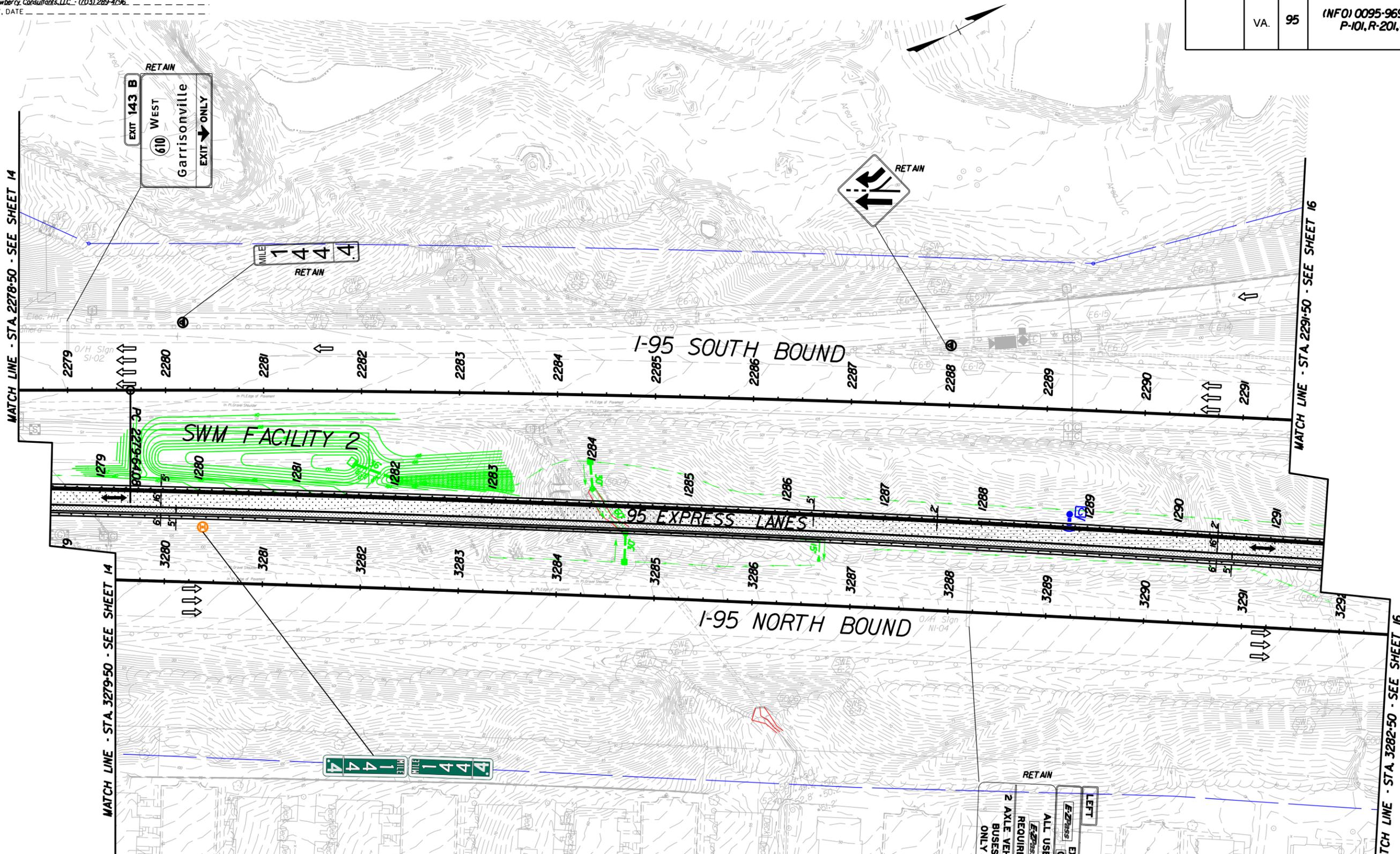
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| Denotes Demolition of Pavement | Denotes Proposed Guardrail                      | Denotes Traffic Gate    | Denotes Detector                            |
| Denotes Full Depth Shoulder    | Denotes Proposed Concrete Barrier               | Denotes Generator       | Denotes CCTV Camera                         |
| Denotes Milling and Overlay    | Denotes Existing Wetlands                       | Denotes Metered Service | Denotes Service Panel                       |
|                                | Denotes Emergency Crossover Full Depth Pavement | Denotes Light Pole      | Denotes Automated Incident Detection Camera |
|                                |   | Denotes Sign Structure  |   |



PROJECT	SHEET NO.
0095-969-720	14

PROJECT MANAGER \_\_\_\_\_  
SURVEYED BY, DATE \_\_\_\_\_  
DESIGN BY Dewberry Consultants, LLC - (703) 289-4796  
SUBSURFACE UTILITY BY, DATE \_\_\_\_\_

REVISED	STATE	ROUTE	STATE	PROJECT	SHEET NO.
	VA.	95		(INFO) 0095-969-720 P-101, R-201, C-501	15

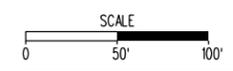


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|                                | Denotes Emergency Crossover Full Depth Pavement | Denotes Light Pole      | Denotes Automated Incident Detection Camera |
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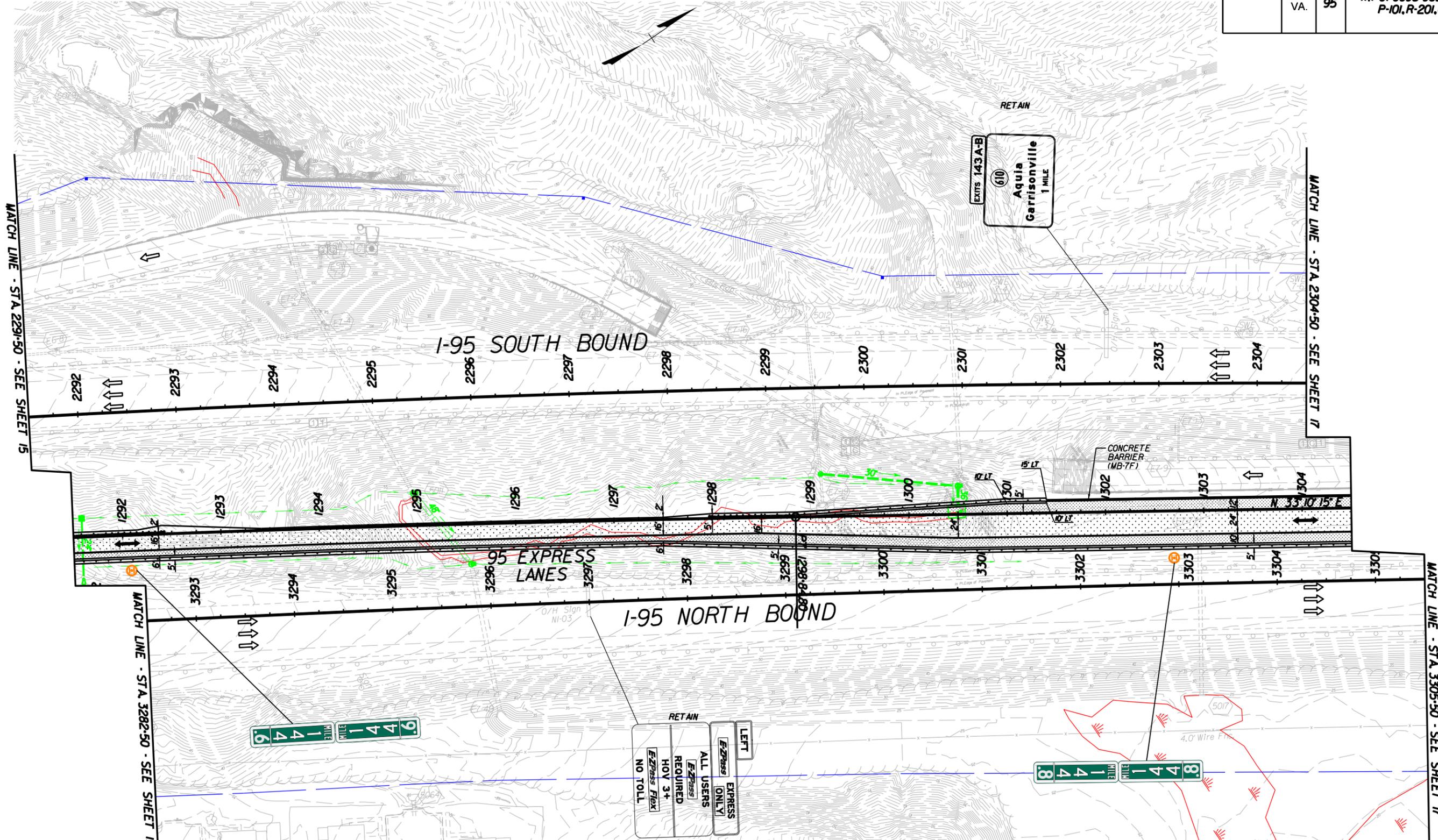
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EXPRESS  
ONLY  
ALL USERS  
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2 AXLE VEHICLES  
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PROJECT	SHEET NO.
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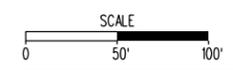
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REVISED	STATE	ROUTE	STATE PROJECT	SHEET NO.
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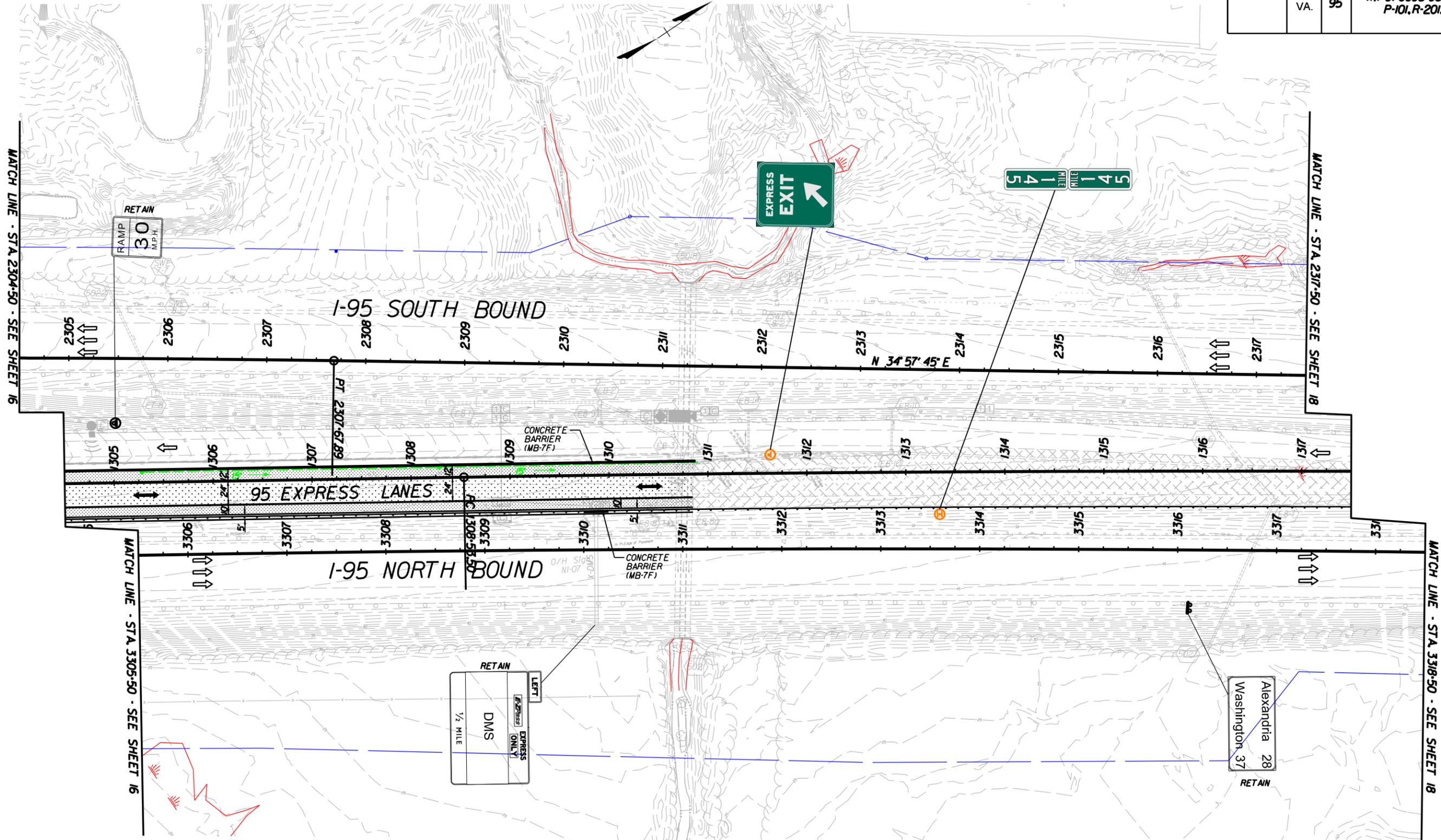
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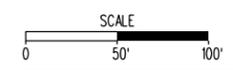
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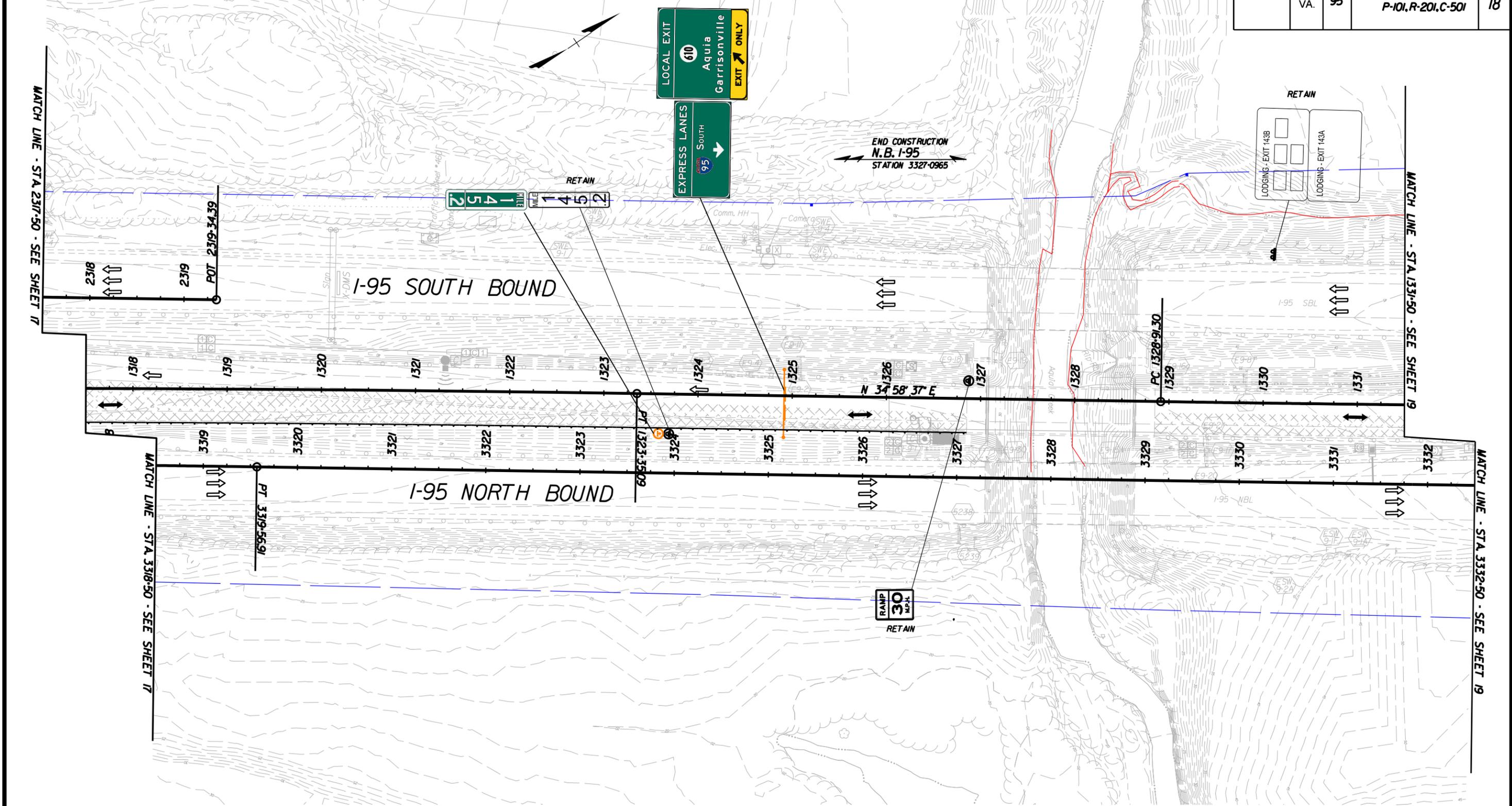
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PROJECT	SHEET NO.
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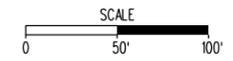
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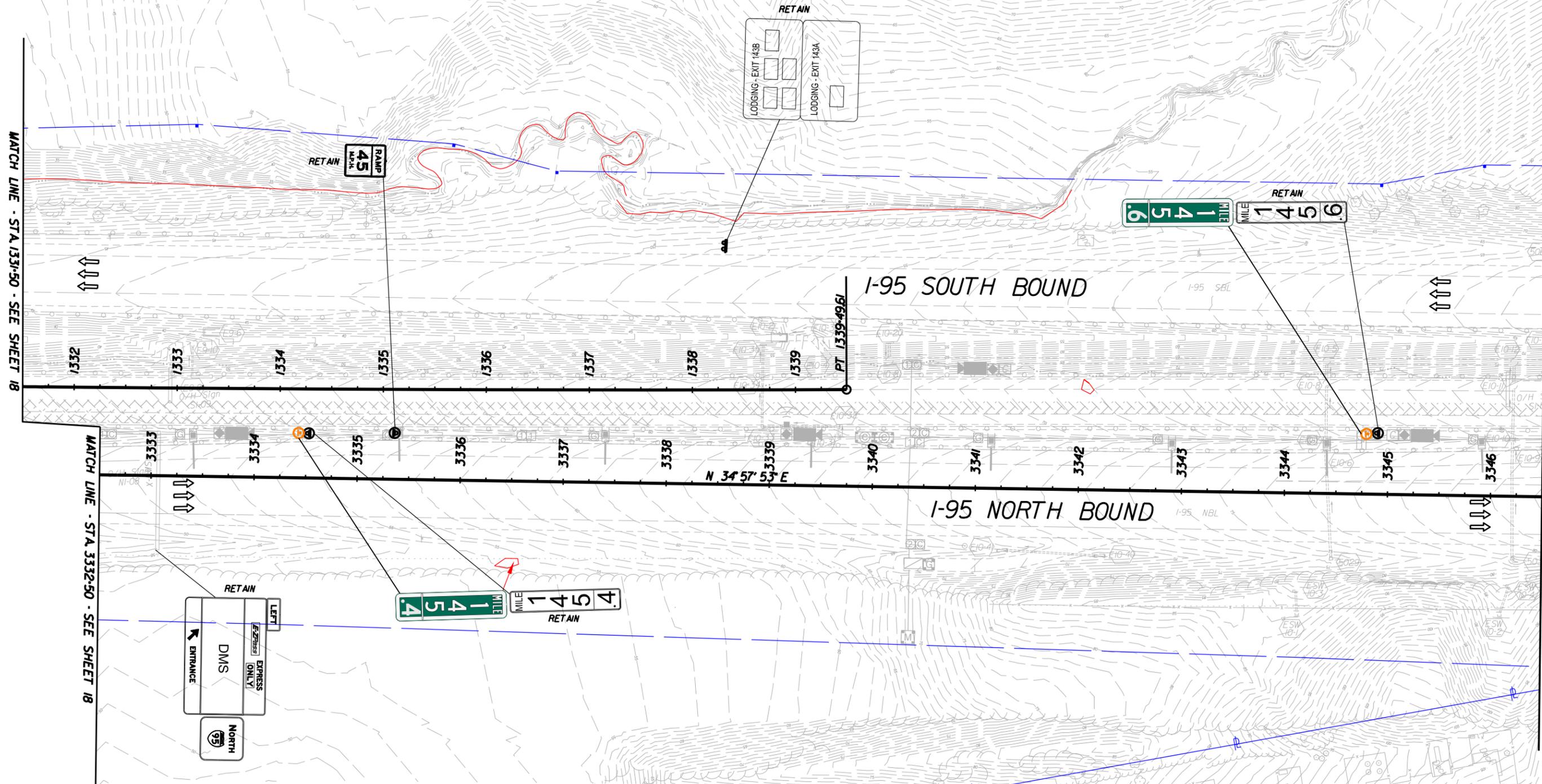
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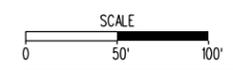
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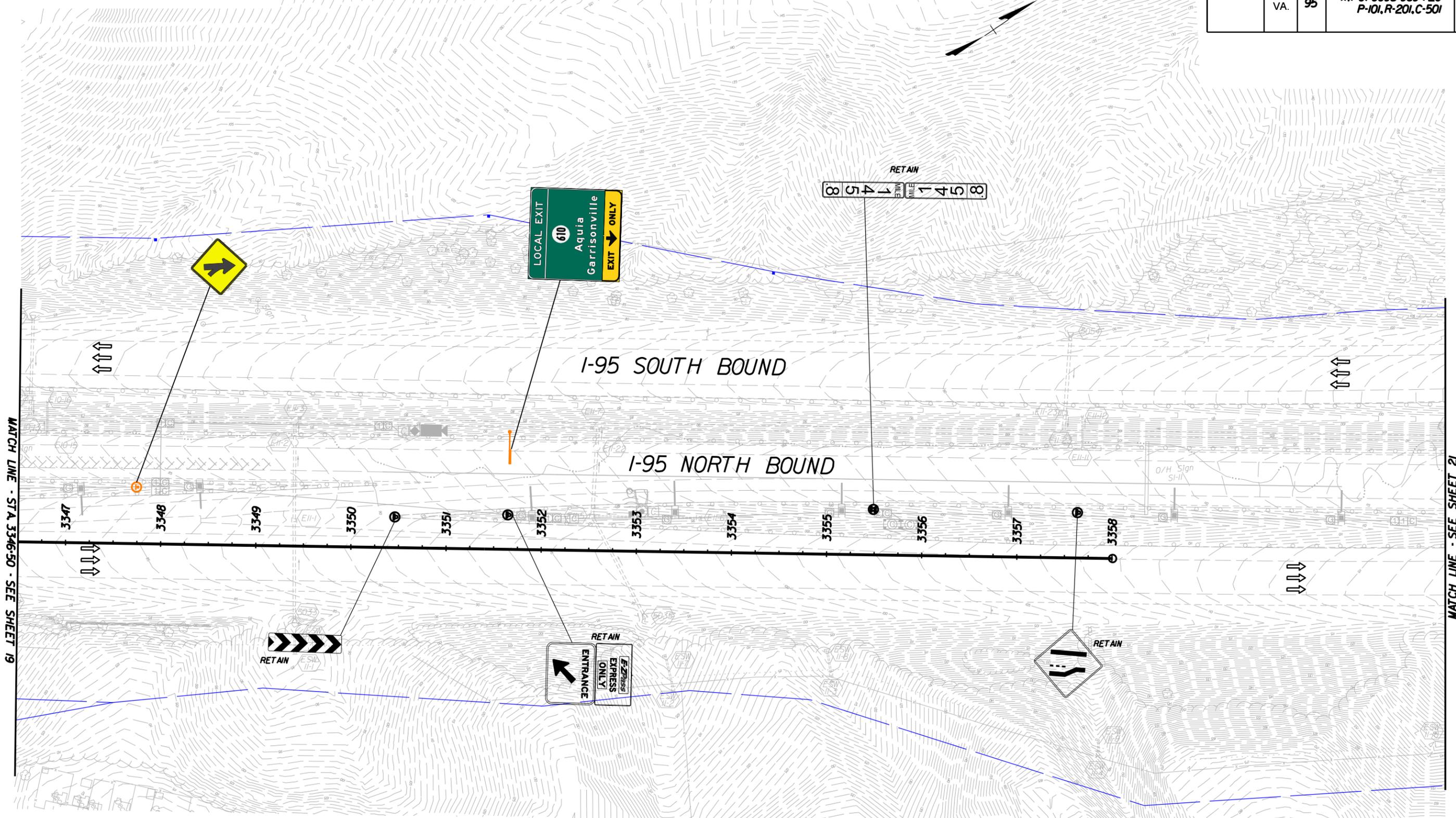
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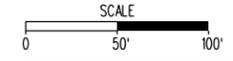
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 DESIGN BY Dewberry Consultants, LLC - (703) 289-4796  
 SUBSURFACE UTILITY BY, DATE \_\_\_\_\_

REVISED	STATE	ROUTE	STATE PROJECT	SHEET NO.
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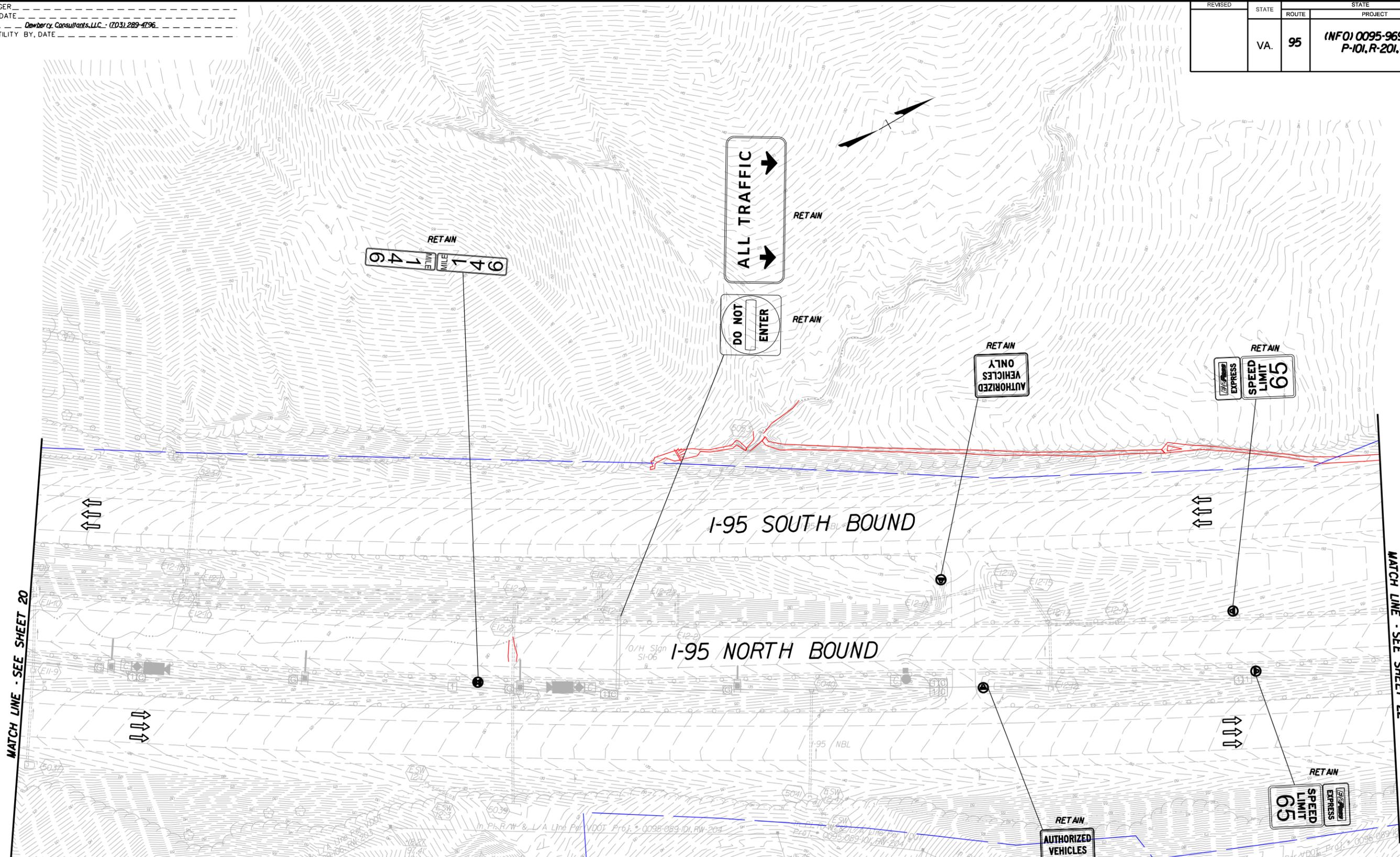
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PROJECT MANAGER \_\_\_\_\_  
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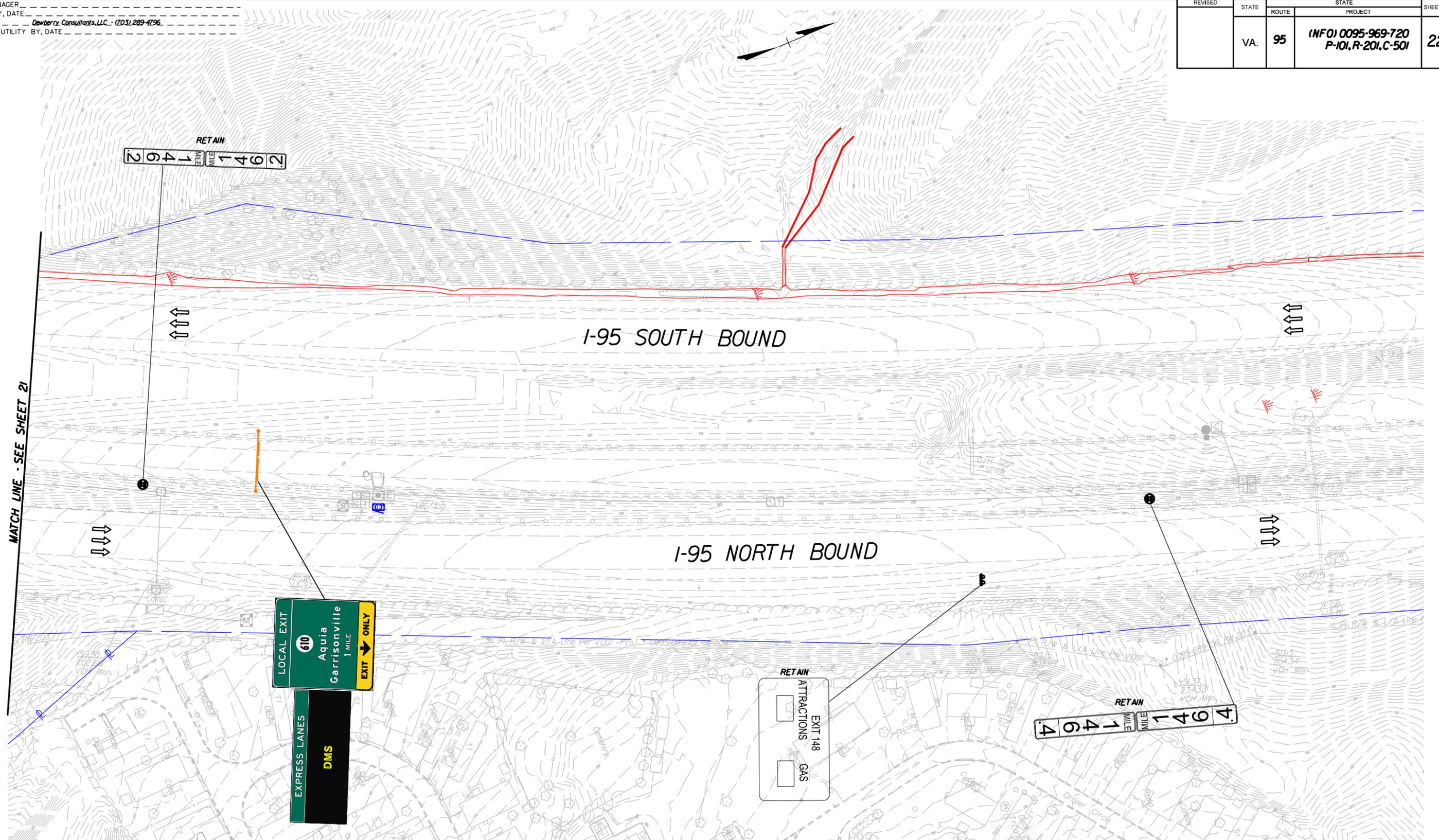
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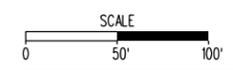
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PROJECT	SHEET NO.
0095-969-720	22

## 4.2.4.2 - Proposal Schedule Narrative



## 4.2.4.2 Proposal Schedule Narrative

### Proposal Schedule

The Shirley Design-Build Team’s Preliminary Proposal Schedule is provided at the end of the Proposal Schedule Narrative.

### Proposal Schedule Narrative

Shirley has reviewed in detail, the Project and schedule requirements of the RFP and has developed a Proposal Schedule outlining a plan to successfully manage all phases of this design-build contract. This schedule has been optimized to:

- Deliver the Project in the shortest amount of time possible;
- Meet the requirements of the RFP;
- Minimize impacts to road users and local stakeholders;
- Protect the environment; and
- Ensure motorist’s and worker’s safety.

In accordance with the contract requirements, our Proposal Schedule includes all work necessary to achieve the required ***Interim Milestone Completion by December 1, 2017*** and ***Final Completion by August 22, 2018***. The incentive dates and decreasing incentive time periods are currently shown in our schedule with no logic connections for reference only. The November 1, 2017 Interim Milestone (maximum incentive) will be challenging due to the timing of plan approvals and the resulting winter impacts on the construction activities. However, we are optimistic that the Final Completion Milestone (maximum incentive) of June 23, 2018 is an achievable and realistic date to meet.

Our schedule is based on starting design activities on the CTB Award/Notice of Intent to Award date (5/18/16) rather than waiting for the Notice to Proceed Date (6/21/16). ***Starting these activities 34 days earlier expedites both the Design completion and the ultimate Project completion.***

Table 1 summarizes the key dates included in our Proposal Schedule:

Table 1

Contract and Schedule Milestones	Date
Notice of Intent to Award	April 25, 2016
CTB Approval/Notice of Award	May 18, 2016
Contract Execution	June 17, 2016
Notice to Proceed	June 21, 2016
I-95 SB Interim Milestone Date (Maximum Incentive)	November 1, 2017
I-95 SB Interim Completion Date	December 1, 2017*
Early Completion Milestone Date (Maximum Incentive)	June 23, 2018
Final Completion Date	August 22, 2018*

***\*Contractual Interim Completion or Final Completion Date***

### Work Breakdown Structure

In order to deliver the Project on schedule, our Team developed a detailed Preliminary Proposal Schedule in accordance with the RFP requirements. The Team has organized the schedule into a hierarchical Work

## 4.2.4.2 Proposal Schedule Narrative

Breakdown Structure (WBS) in order to demonstrate the relationships and activity durations amongst the milestones, scope validation period, design, public involvement, environmental permitting, construction, and project management disciplines. All elements of the design-build process are captured under these Level 1 tasks and are briefly described on the following page:

- A. Project Milestones (M):** Area reserved for easy review of the Project status. The Scope Validation Period has also been included in this section.
- B. Design (D):** Includes preliminary engineering services, plan development, QA/QC reviews and reviews by VDOT, FHWA and other regulatory agencies including approvals of the plans. This section of the schedule includes a second level WBS structure to group design activities by type of design submission including preliminary activities, geotechnical work, Early Work Plans (TMP, TTC and E&S/C) and Roadway Design.
- C. Public Involvement (Public):** This section of the schedule includes activities for developing the planned public involvement process including communication plans, public information meetings, and updates to the Office of Public Affairs for major traffic shifts.
- D. Environmental Permitting (E):** Includes the transfer of permits acquired by VDOT, permit acquisition by Shirley, submission of the spill prevention and countermeasures plan, threatened and endangered species coordination, noise analysis and soundwall design.
- E. Utility Relocations (U):** No utility relocations are anticipated for this Project.
- F. Right-of-way Acquisition (R):** No right-of-way acquisition is anticipated for this Project.
- G. Construction (C):** Includes all construction activities including project management, subcontractor and material procurement, working drawings, fabrication of long lead time materials, quality assurance and quality control, Stage 1 construction work and Stage 2 construction work. The construction section of the schedule is segmented by additional levels of WBS structure to divide the construction activities into groups of work packages that can be easily tracked to ensure on-time completion of the Project.

Table 2 shown below is a complete outline of the WBS Structure for the Project:

Table 2

WBS Path	WBS Name
I-95M	<b>Project Milestones</b>
I-95D	<b>Design Phase</b> <ul style="list-style-type: none"> <li>• PRE - Preliminary Engineering</li> <li>• GEO - Geotechnical Work</li> <li>• EARLY WORK PLANS (TMP, TTC and E&amp;S/C)</li> <li>• RDWY - Roadway Design</li> <li>• 3PC - 3rd Party Coordination</li> </ul>
I-95P	<b>Public Involvement</b>
I-95E	<b>Environmental Permitting</b> <ul style="list-style-type: none"> <li>• PER - Permits Acquired by VDOT</li> <li>• HAZ - Hazardous Materials</li> <li>• VSMP - VSMP Permits</li> <li>• TRANS - Transfer VDOT Acquired Permits</li> <li>• T&amp;E - Threatened &amp; Endangered Species</li> <li>• Noise - Noise Analysis &amp; Soundwall Design</li> </ul>
I-95U	<b>Utility Relocation (None Anticipated)</b>
I-95R	<b>ROW Acquisition (None Anticipated)</b>

## 4.2.4.2 Proposal Schedule Narrative

WBS Path	WBS Name
I-95C	<b>Construction</b>
PM	Project Management <ul style="list-style-type: none"> <li>SMP - Subcontractor &amp; Material Procurement</li> <li>WD - Working Drawings</li> <li>FAB - Fabricate Long Lead Time Materials</li> </ul>
QAQC	Quality Assurance & Quality Control <ul style="list-style-type: none"> <li>PROJ - Project QA/QC</li> <li>PREP - QA/QC Preparatory Meetings</li> </ul>
Stage 1	Stage 1 Construction <ul style="list-style-type: none"> <li>MOT - Maintenance of Traffic</li> <li>A1 - Area 1 South Project Limit to Station 2241</li> <li>A2 - Area 2 Station 2241 to Station 83</li> <li>A3 - Area 3 Station 83 to North Project Limit</li> <li>SYSINT - I-95 Express Lanes System Integration</li> </ul>
Stage 2	Stage 2 Construction <ul style="list-style-type: none"> <li>MOT - Maintenance of Traffic</li> <li>A4 - Area 4 I-95 NB Express On Ramp</li> <li>SYSINT - I-95 Express Lanes System Integration</li> <li>A5 - Area 5 Soundwall CNE NN</li> </ul>

### Geography and Construction Staging

Our Design-Build Team plans to build this Project in five geographic areas during 2 stages of construction. Areas 1, 2 & 3 will be built concurrently during Stage 1 and areas 4 & 5 will be built concurrently during Stage 2. The limits of these areas and stages were carefully planned in order to construct the Project as safely and efficiently as possible while meeting the milestones required.

- STAGE 1** - All construction activities required to meet the Interim Completion Milestone of December 1, 2017.
  - Area 1** - Proposed construction of the southern work area of the Project including the new entrance and exit ramps from the south project limit to Station 2241.
  - Area 2** - Proposed construction of the middle portion of the Project from the new entrance and exit ramps to the existing I-95 Express Lanes completed by others (Station 2241 to Station 83).
  - Area 3** - Proposed construction of the northern work area previously constructed by others from Station 83 to north project limit.
- STAGE 2** - All construction activities required to complete the remaining work and meet the Final Completion Milestone of August 22, 2018.
  - Area 4** - Includes work not completed during Stage 1 for the completion of the northbound I-95 Express Lane northbound Entrance Ramp.
  - Area 5** - Proposed construction of soundwall CNE NN.

### Global Calendars

The following is a description of the calendars used for this Project. All calendars are based on eight hour work days. Holidays are blocked off as non work days.

**Calendar 01** - “STD 5 DAY WORK WEEK” – this calendar is based on five working days per week and is used for all design, administrative, and construction activities that are outside of the winter weather

## 4.2.4.2 Proposal Schedule Narrative

months. Saturdays are typically reserved for weather make-up days. Holidays are blocked off as non work days.

**Calendar 02** – “STD 5 DAY WINTER SHUTDOWN” – Assigned to activities that are anticipated to be shut down during the winter, such as asphalt paving and painting. This calendar contains no working days from December 15th of one year to March 15th of the next year.

**Calendar 03** – “STD 5 DAY WINTER IMPACT” – This calendar is based on working part-time from December 15 to March 15; is assigned to activities that are anticipated to have reduced productivity during winter months.

**Calendar 04** – “STD 7 DAY CALENDAR” – Assigned to activities that have durations based on calendar days instead of work days. For example VDOT’s 21 calendar day review duration.

### Schedule Acronyms and Abbreviations

The acronyms and abbreviations in Table 3 were used in preparation of the schedule activity descriptions:

Table 3

Schedule Acronyms and Abbreviations	
AHG	Agencies having Jurisdiction
F&I	Furnish and Install
H&HA	Hydrologic and Hydraulic Analysis
INST	Install
OG	Open Graded Asphalt
P/S	Prepare and Submit
P&S/A	Prepare and Submit for Approval
P&S/C	Prepare & Submit for Comments
PERF	Perform
PICP	Public Information & Communication Plan
R/A	Review and Approve
R/C	Review and Comment
RPM	Raised Pavement Marker
S/A	Submit for Approval
S/C	Submit For Comments
SPCCP	Spill Prevention, Control and Countermeasure Plan
SPGP	Special Programmatic General Permit
SW	Sound wall
SWPPP	Storm Water Pollution Prevention Plan
T&E	Threatened and Endangered Species
TMP	Transportation Management Plan
TTC	Temporary Traffic Control
UFI	Utility Field Investigation
U/G	Underground
VPDES	VPDES General Construction Permit
VSMP	Virginia Stormwater Management Program
VWP	Virginia Water Protection Permit
19MM	19MM Intermediate Asphalt Paving

## 4.2.4.2 Proposal Schedule Narrative

### Schedule Timing and Critical Path

The narrative below describes our Team's planned schedule and sequence of operations grouped by the Level I WBS project disciplines. These include Design, Public Involvement, Environmental Permitting, Project Management and Construction. We do not anticipate any right-of-way acquisition or utility relocation at this time. The sequencing of all disciplines was developed by considering the construction phasing of operations and determining the longest path to project completion with all factors considered including manpower, subcontractors, materials, design, environmental constraints and most importantly public safety and safety of the workforce. The Project phasing was developed based on the sequence and constraints shown in the RFP plans and was further refined and developed by the Team based on the geographic areas and additional phasing necessary to meet the MOT requirements and critical elements of work. We have divided the Project into five logical and manageable work areas that can be tracked and managed by dedicated supervision during construction as mentioned above.

### Design Phase

The Design section includes activities related to the design efforts prior to the commencement of construction:

- **Geotechnical** - This section includes activities related to any additional soil borings, geotechnical analysis or design necessary to be performed.
- **Early Work Plans (TMP, TTC and E&S/C)** - This section includes activities related to the preparation, submission and approval of construction plans required to start the early construction activities in the median of I-95.
- **Roadway Design** - This section includes activities related to the preparation, submission and approval of construction plans. Final roadway plans will include final drainage and SWM reports. The final plans will be broken into packages to minimize schedule delays and provide flexibility for planning purposes.

### Public Involvement

The Public Involvement section contains activities necessary for public communication and outreach.

- **Emergency Contact Plan** - This section includes activities related to the submission and implementation of the emergency contact plan.
- **Pardon Our Dust/Citizen Outreach Meetings** - This section tracks any and all public outreach and public information meetings held for the Project.
- **Public Education & Outreach** - This section forewarns the public of upcoming traffic openings and changes.

### Environmental Permitting

The environmental permitting section contains activities pertinent to the evaluation, preparation, transfer, submission and approval of any and all environmental permits required for the Project.

- **Spill Prevention Plan** - This section includes activities regarding the development, submission and approval of the Spill Prevention, Control and Countermeasures Plan for the Project.
- **VSMP/SWPPP Permitting** - This section includes activities regarding the submission and approval of the SWPPP Certifications and permits required for the Project.

## 4.2.4.2 Proposal Schedule Narrative

- **Transfer of Permits Acquired by VDOT** - This section contains activities related to the transfer of permits acquired by VDOT. It allows for the appropriate delineations, minimization studies and the coordination with the appropriate permitting agencies.
- **Threatened and Endangered Species Survey** - This section includes activities to ensure all T&E species are correctly identified and impacts are assessed.
- **Noise Analysis & Soundwall Design** - This section includes activities regarding noisewall analysis and soundwall design.

### Right-of-Way Acquisition

- No right-of-way acquisition is anticipated for this Project

### Utility Relocations

- No utility relocation is anticipated for this Project.

### Construction Sequence

The Construction section of the schedule includes all of the activities related to the actual construction of the approved design. The WBS for construction is further broken down into the different stages and areas of the job to track intermediate progress throughout the Project. It also includes the different definable features of work located within each area and each stage.

### Project Management

- Preparation and submission of project schedules;
- Subcontractor and material procurement;
- Preparation and submission of working drawings; and
- Fabrication of long lead time materials.

### Quality Assurance and Quality Control

- Preparation and submission of Quality Assurance and Quality Control plans; and
- Quality Assurance and Quality Control preparatory meetings.

### Stage 1 Construction

- Maintenance of Traffic;
- Area 1 South Project Limit to Station 2241 includes all construction activities to accomplish the Interim Milestone Completion;
- Area 2 Station 2241 to Station 83 includes all construction activities to accomplish the Interim Milestone Completion;
- Area 3 Station 83 to North Project Limit includes all construction activities to accomplish the Interim Milestone Completion; and
- I-95 Express Lane System Integration includes all mandated activities and deadlines to commission all roadside equipment, all testing (levels A, B & C), operational readiness, VDOT approval and customer education and outreach.

### Stage 2 Construction

- Maintenance of Traffic
- Area 4 NB Express Lane On Ramp - Completion of road control gates.

## 4.2.4.2 Proposal Schedule Narrative

- Area 4 I-95 Express Lane System Integration includes all activities to commission all roadside equipment, all testing (levels A, B & C), operational readiness, VDOT approval and customer education & outreach.
- Area 5 soundwall CNE NN includes all activities to construct the soundwall.

### Critical Path

The following is a summary of the Critical Path activities of the Proposal Schedule:

- Notice of Intent to Award;
- CTB Award / Notice of Award;
- Preparation, submittal, review and approval of Early Work plans (TMP, TTC & E&S/C);
- Mobilization for construction;
- Install maintenance of traffic protection for Stage 1;
- Construction of early Stage 1 and Area 1 including erosion and sediment control, clearing, storm sewer in deep fills, excavation and embankment;
- Continued construction of Stage 1 and Area 1 including electrical and ITS work;
- Commission roadside equipment and perform levels A, B & C testing in all areas;
- Obtain operational readiness and VDOT approval to switch traffic;
- Notify public of new opening and traffic patterns through customer education and public outreach;
- Open new SB I-95 Express Lanes to Traffic;
- Install maintenance of traffic protection for Stage 2;
- Construct Soundwall CNE NN;
- Remove Garrisonville I-95 SB on-ramp MOT protection;
- Project substantially complete;
- Complete punch list items; and
- Final Completion.

A filtered list of all the critical activities shown in the Proposal Schedule has been included and is located in the back of the Proposal Schedule.

### Project Controls

Through our Team's experience delivering large complex design-build roadway projects ahead of schedule, we have developed scheduling protocols to govern the development, implementation, progress tracking, and recovery of the CPM schedule through all of the Project stages.

### Schedule Development

For any design-build project, it is imperative that the project team develops a detailed CPM schedule that considers the interrelationships between all of the design-build disciplines. Our Team has developed the Preliminary Proposal Schedule included in this Proposal with a Work Breakdown Structure (WBS) that clearly delineates the tasks of each discipline manager, including project management, design, permitting, and construction.

In order to develop the overall detailed CPM Schedule, each discipline manager is responsible for producing a schedule to govern his own work and providing insight into how his schedule activities affect and are affected by activities in other disciplines. Once each manager has prepared their individual schedule, we hold schedule development meetings run by the Design-Build Project Manager (D-B PM) and attended

## 4.2.4.2 Proposal Schedule Narrative

by all discipline managers to review the individual schedules and integrate them into the overall CPM Schedule. These meetings ensure that:

- Work packages within each discipline are comprehensive enough to define the work with no activities omitted;
- Work packages are integrated within each discipline and between disciplines to generate a clearly defined project Critical Path, confirm the Critical Path makes sense, and the schedule shows that the Project will complete on-time or ahead of schedule;
- Each discipline manager understands the schedules of the other disciplines and how their work inter-relates with the other disciplines;
- Each discipline manager understands how his work affects the Critical Path of the Project and the priorities of the D-B PM and the other discipline managers; and
- The schedule meets or exceeds the requirements of the Contract.

These meetings enable our Team to create a detailed CPM Schedule that is jointly prepared by and agreed to by all of the discipline managers, providing realistic expectations of the schedule of work to be completed by all team members and third parties.

Throughout the design phase of the Project as more detailed plans are developed, these meetings continue to further develop the CPM Schedule into the more detailed Baseline CPM Schedule. This schedule can then be utilized by all Team members to plan and track the progress of their work. It is submitted to VDOT for review and approval and utilized during the planning phases for permitting, design, and subcontractor/supplier scope and purchasing. Specific milestone dates from the CPM Schedule will be written into subcontracts and purchase orders, making them contractually responsible for meeting schedule deadlines.

### ***Procedures for Monitoring and Reporting Schedule Progress to Ensure Timely Project Completion-***

The key to effectively monitoring schedule progress is maintaining efficient communication between the discipline managers, resulting in constant coordination and schedule feedback. From the NTP date through the completion of design activities, our Team at a minimum will hold weekly Design Coordination Meetings which are run by the D-B PM and attended by all discipline managers. Design Coordination Meetings have been a crucial tool on other design-build projects by facilitating face-to-face communication between the discipline managers. For each Design Coordination Meeting, the D-B PM reviews the CPM Schedule and identifies all activities that were scheduled for completion the previous week or are planned for the next two weeks. During the meeting, the Project Team discusses:

- The status of progress since the last meeting with actual dates for completed activities;
- Critical completion dates for future activities;
- The addition or deletion of schedule activities as the design evolves;
- The impact of revised schedule dates on other activities and disciplines;
- Identification of ways to advance the schedule ahead of the planned completion or mitigate schedule delays; and
- General design review, constructability, and determination of means and methods.

After each weekly meeting, the D-B PM updates the CPM schedule and forwards copies of an updated “look-ahead” schedule to each of the discipline managers identifying the critical dates agreed to during the weekly design meeting. This process continues throughout the design phases ensuring there is no slippage to the start of the construction stages. During the utility relocation and construction phases of the Project,

## 4.2.4.2 Proposal Schedule Narrative

the D-B PM, Construction Manager, Designer Manager, QA Manager, QC Manager, and VDOT continue to meet weekly for a Construction Progress Meeting to coordinate necessary QA, QC, Independent Assurance (IA) and Independent Verification (IV) inspections. At each meeting, the Construction Manager reviews the work performed during the previous week and outlines the schedule activities that will be performed during the following two weeks.

An additional technique that our Team uses to monitor construction progress is the “Daily Shift Cost Report” (DSCR). At the end of each day, the construction field personnel compare the quantity of work, and the cost to do so, completed that day with the budgeted production and cost. Not only does this analysis provide an early indicator of cost concerns, but it also instantly highlights potential issues with the schedule by focusing on production rates. Religiously completing and reviewing the DSCR’s allows the construction team to make immediate “real-time” adjustments to work crews, equipment, trucking, subcontractor resources, and material deliveries to adjust production rates in order to maintain the Project schedule. We also review and adjust the durations of future schedule activities based on the DSCR production rates to help identify and mitigate schedule concerns for the later stages of the Project.

In addition to weekly scheduled meetings with VDOT, we also prepare and submit monthly schedule updates for review and approval by VDOT, including a narrative of the schedule modifications, updated activities, project issues affecting the schedule, and a description of the Critical Path with updated schedule milestones. These daily, weekly, and monthly reviews of production rates, activity durations, and overall schedule status enables us to identify and mitigate potential schedule delays to ensure early completion.

***Procedures for Rescheduling Activities and Schedule Recovery*** - If during the course of the Project, we encounter delays to the Project Critical Path, we will complete a Time Impact Analysis (TIA), resequence the schedule, and prepare a schedule recovery plan to reclaim lost time. This plan may include increasing work shifts, adding crews and resources to construct Critical Path activities concurrently, and changing MOT schemes or modifying the design to remove activities from the Critical Path. If it is early in the Project at the time the delay is encountered, schedule recovery may require adjustments by any or all of discipline managers including, design, permitting, right-of-way, utility relocation, and construction. However, if all other design-build disciplines have completed their tasks, resequencing the construction schedule by the Construction Manager will be the primary focus in order to mitigate the delay.

A relevant example of mitigating delays and initiating schedule recovery on this Project is in the event endangered and threatened species are encountered such as the Long Eared Bat or the Indiana Bat. Our Team is committed to resequencing the clearing and grubbing so that the work and the Project can be completed on time without delay if this occurs.

### Mitigation of Major Delay Risks

#### Timely Review and Approval of Submittals

Upon Notice of Award, our Team will prepare a submittal schedule identifying all submittals that are required for the Project. This schedule identifies the individual responsible for preparing the submittal, the anticipated submittal date, the parties responsible for reviewing and approving, the anticipated review durations, and a list of the individuals that must receive a copy of the approved submittal. At a minimum, the following submittals will be included:

- Design Submissions;
- Permits;

## 4.2.4.2 Proposal Schedule Narrative

- QA/QC Plan;
- CPM Schedule and Updates;
- MOT and TMP Plans; and
- Materials Documentation, including Source of Supply and Shop Drawings.

Submittals deemed critical to the success of the Project, including design and permitting submissions and major materials submissions (such as overhead sign shop drawings), will be included in the Project CPM Schedule where the progress can be monitored concurrently with the affected construction activity. Each submittal includes a transmittal cover sheet identifying the submittal's priority level. For submittals between the contractor and design firm, normal priority submittals will be returned within four weeks; high priority submittals within two weeks and urgent submittals within three days. This also allows the Team to prioritize multiple submittals that are turned in concurrently. For submittals to government agencies and utilities, we include adequate review timeframes in the CPM Schedule for approval of environmental permits as applicable.

We also maintain a submittal log showing the status of all submittals. We will update the log with the submission and return of each submittal and will show the submission date, anticipated response date, priority, and status. The submittal log is reviewed at the weekly Design Coordination, Owner Progress, and Construction Progress meetings. It can easily be sorted to distribute lists of active and overdue submittals. We discuss issues affecting the timely completion of submittal reviews with the responsible party and a plan for resolving them are agreed to.

This process, along with diligent assessment of the CPM schedule, ensures that timely review of submittals will be constantly monitored and managed to ensure that no construction activities are delayed by the submittal process.

### **Summary**

Our Team's comprehensive pre-proposal preparation, proven experience in all phases of design-build, extensive project controls and schedule management, and recovery techniques will serve to ensure that the Project will complete on schedule. Over the years, we have built a solid professional reputation on meeting our commitments, completing projects ahead of schedule and under budget, performing quality work in a safe work environment, and establishing a problem-solving atmosphere and partnership with the Owner.

## 4.2.4.1 - Proposal Schedule

I-95 EXPRESS LANES - SOUTHERN TERMINUS EXTENSION

PROPOSAL

SHIRLEY CONTRACTING COMPANY, LLC

CONTRACT ID NUMBER: C00108315DB90

SCHEDULE

LORTON, VA

Activity ID	Activity Name	Original Duration	Total Float	Start	Finish	2016				2017			2018				2019		
						Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1		
<b>I-95 Express Lanes - South Term Ext C00108315DB90</b>																			
<b>Milestones and Important Activities</b>																			
M1000	NOTICE OF INTENT TO AWARD (4/25/16)	0	0	25-Apr-16*															
M1010	CTB AWARD / NOTICE OF AWARD (5/18/16)	0	0	18-May-16*															
M1020	DESIGN BUILD CONTRACT EXECUTION (6/17/16)	0	0	17-Jun-16*															
M1030	NOTICE TO PROCEED (6/21/16)	0	0	21-Jun-16*															
M1040	SCOPE VALIDATION PERIOD (10/19/16)	120	0	22-Jun-16	19-Oct-16*														
M1050	COMMENCE DESIGN PHASE	0	0	18-May-16 A															
M1060	BEGIN STAGE 1 CONSTRUCTION (LIMITED)	0	31	19-Oct-16															
M1070	COMPLETE DESIGN PHASE	0	63		16-Feb-17														
M1080	NOTICE TO COMMENCE CONSTRUCTION (HOLD POINT)	0	63	16-Feb-17															
M1090	I-95 SB INTERIM MILESTONE MAX INCENTIVE (11/1/17)	0	0		01-Nov-17*														
M1100	DECREASING INTERIM INCENTIVE PERIOD	30	0	01-Nov-17	30-Nov-17														
M1110	I-95 SB INTERIM COMPLETION DATE (12/1/17)	0	0		01-Dec-17*														
M1120	BEGIN STAGE 2 CONSTRUCTION	0	0	01-Dec-17															
M1130	EARLY COMPLETION MILESTONE (6/23/18)	0	0		23-Jun-18*														
M1140	DECREASING FINAL INCENTIVE PERIOD	61	0	23-Jun-18	22-Aug-18														
M1150	PROJECT SUBSTANTIALLY COMPLETE	0	0		07-Aug-18														
M1160	COMPLETE VDOT PUNCHLIST	15	0	08-Aug-18	22-Aug-18														
M1170	FINAL COMPLETION DATE (8/22/18)	0	0		22-Aug-18*														
<b>Design Phase</b>																			
<b>Preliminary</b>																			
D1000	P&S/A DESIGN QA/QC PLAN	5	11	21-Jun-16	27-Jun-16														
D1010	VDOT R/A DESIGN QA/QC PLAN	21	15	28-Jun-16	18-Jul-16														
D1030	PERF SUPPLEMENTAL FIELD SURVEYS	30	13	28-Jun-16	27-Jul-16														
<b>Geotechnical Work</b>																			
D1040	PREP GEOTECH BORING LOCATION PLAN	5	4	21-Jun-16	27-Jun-16														
D1050	PERF GEOTECH BORING INVESTIGATION	30	4	28-Jun-16	08-Aug-16														
D1060	PERF PAVEMENT VALIDATION ANALYSIS	15	38	28-Jun-16	18-Jul-16														
D1070	P&S/A PAVEMENT VALIDATION ANALYSIS	15	38	19-Jul-16	08-Aug-16														
D1080	P&S/A PRELIM GEOTECH RECOMMENDATIONS REPORT	45	52	09-Aug-16	22-Sep-16														
D1090	PERF LAB SAMPLE TESTING AND ANALYZE DATA	45	5	09-Aug-16	22-Sep-16														
D1095	P&S/A DEEP PIPE RECOMMENDATIONS	5	3	22-Sep-16	29-Sep-16														
D1096	VDOT R/A DEEP PIPE RECOMMENDATIONS	21	5	30-Sep-16	20-Oct-16														
D1100	P&S/A FINAL GEOTECH DESIGN & CONST MEMORANDA	20	36	22-Sep-16	20-Oct-16														
D1110	VDOT R/A FINAL GEOTECH DESIGN & CONST MEMORANDA	60	50	21-Oct-16	19-Dec-16														
<b>Early Work Plans (TMP, TTC and E&amp;S/C)</b>																			
D1120	PREP TRANSPORTATION MANAGEMENT PLAN (TMP)	10	0	18-May-16	31-May-16														
D1130	PREP EARLY PLANS	70	0	25-May-16	02-Aug-16														
D1140	DESIGN QA/QC EARLY PLANS	5	0	02-Aug-16	09-Aug-16														
D1150	S/C EARLY PLANS (1ST SUBMISSION)	1	0	09-Aug-16	10-Aug-16														
D1160	VDOT R/C EARLY PLANS (1ST SUBMISSION)	21	0	11-Aug-16	31-Aug-16														
D1170	INCORP 1ST SUB VDOT COMMENTS TO EARLY PLANS	15	0	01-Sep-16	15-Sep-16														
D1180	DESIGN QA/QC EARLY PLANS (2ND SUBMISSION)	5	0	15-Sep-16	22-Sep-16														
D1190	S/C EARLY PLANS (2ND SUBMISSION)	1	0	22-Sep-16	23-Sep-16														
D1200	VDOT R/A EARLY PLANS (2ND SUBMISSION)	21	0	24-Sep-16	14-Oct-16														
D1210	INCORP 2ND SUB VDOT COMMENTS TO EARLY PLANS	11	0	15-Oct-16	25-Oct-16														
D1220	P&S/A FINAL EARLY PLANS	2	0	25-Oct-16	27-Oct-16														
D1230	VDOT R/A FINAL EARLY PLANS	21	0	28-Oct-16	17-Nov-16														
D1240	EARLY PLANS APPROVED	0	0		17-Nov-16														
<b>Roadway Design</b>																			
D1260	PREP GRADING PLANS	45	11	18-May-16	19-Jul-16														
D1270	PREP DRAINAGE PLANS	60	11	29-Jun-16	20-Sep-16														
D1280	PREP H&HA ANALYSIS AT STREAM AREAS (HOLD POINT)	5	11	21-Sep-16	27-Sep-16														
D1290	COMPILE ROADWAY PLANS (1ST SUBMISSION)	7	11	28-Sep-16	06-Oct-16														
D1300	ROADWAY DESIGN QA/QC (1ST SUBMISSION)	5	11	07-Oct-16	13-Oct-16														
D1310	S/C ROADWAY PLANS (1ST SUBMISSION)	1	11	14-Oct-16	14-Oct-16														
D1320	VDOT/FHWA R/C ROADWAY PLANS (1ST SUBMISSION)	21	17	15-Oct-16	04-Nov-16														
D1330	INCORPORATE VDOT/FHWA REVIEW COMMENTS	10	11	04-Nov-16	18-Nov-16														
D1340	PREP ROADWAY PLANS (2ND SUBMISSION)	10	11	18-Nov-16	02-Dec-16														
D1350	ROADWAY DESIGN QA/QC (2ND SUBMISSION)	5	11	02-Dec-16	09-Dec-16														
D1360	S/C ROADWAY PLANS (2ND SUBMISSION)	1	11	09-Dec-16	12-Dec-16														
D1370	VDOT/FHWA R/C ROADWAY PLANS (2ND SUBMISSION)	21	15	13-Dec-16	02-Jan-17														
D1380	PREP FINAL ROADWAY PLANS	10	9	04-Jan-17	18-Jan-17														
D1390	ROADWAY DESIGN FINAL PLANS QA/QC	5	9	18-Jan-17	25-Jan-17														

Actual Work Remaining Work Critical Remaining Work Milestone



I-95 EXPRESS LANES - SOUTHERN TERMINUS EXTENSION						PROPOSAL				SHIRLEY CONTRACTING COMPANY, LLC							
CONTRACT ID NUMBER: C00108315DB90						SCHEDULE				LORTON, VA							
Activity ID	Activity Name	Original Duration	Total Float	Start	Finish	2016			2017			2018				2019	
						Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1
D1400	P&S/A FINAL ROADWAY PLANS	1	9	25-Jan-17	26-Jan-17				█								
D1410	VDOT/FHWA R/A FINAL ROADWAY PLANS	21	13	27-Jan-17	16-Feb-17				█								
D1420	FINAL ROADWAY PLANS APPROVED	0	9		16-Feb-17				◆								
<b>3rd Party Coordination</b>		790	3	21-Jun-16	19-Aug-18												
D1425	THIRD PARTY COORDINATION W/ I-95 EXPRESS LANES / S-	790	3	21-Jun-16	19-Aug-18												
<b>Public Involvement</b>		478	77	21-Jun-16	19-Apr-18												
C1645	P&S EMERGENCY CONTACT INFORMATION	5	72	21-Jun-16	27-Jun-16				█								
C1646	CONDUCT "PARDON OUR DUST" MEETING	5	72	28-Jun-16	04-Jul-16				█								
C1650	START MILESTONE FOR PUBLIC OUTREACH (11/16/17)	0	0	16-Nov-17*													
C1660	CUSTOMER EDUCATION & PUBLIC OUTREACH	14	0	16-Nov-17	29-Nov-17												
C1670	END MILESTONE CUSTOMER EDUCATION & PUBLIC OUTREACH	0	0		29-Nov-17*												
C1730	CUSTOMER EDUCATION & PUBLIC OUTREACH	14	109	06-Apr-18	19-Apr-18												
<b>Environmental Permitting</b>		142	9	21-Jun-16	04-Jan-17												
<b>Permits Acquired by VDOT</b>		19	0	21-Jun-16	15-Jul-16												
D1430	VDOT ACQUIRES VPDES GENL CONST PERMIT (6/21/16)	0	0		21-Jun-16*				◆								
D1440	VDOT ACQUIRES SPEC PROGRAM GENL PERMIT (SPGP) (7/15/16)	0	0		15-Jul-16*				◆								
D1450	VDOT ACQUIRES VA WATER PROTECT PERMIT (VWP) (7/15/16)	0	0		15-Jul-16*				◆								
<b>Hazardous Materials</b>		20	53	21-Jun-16	18-Jul-16												
D1459	P&S/A SPILL PREVENT, CONTROL COUNTERMEASURE PLAN (SPCCP)	5	53	21-Jun-16	27-Jun-16				█								
D1460	VDOT R/A SPCCP	21	73	28-Jun-16	18-Jul-16				█								
<b>VA Stormwater Management Program (VSMP) Permits</b>		20	36	10-Aug-16	07-Sep-16												
D1480	P&S/A SWPPP	5	36	10-Aug-16	17-Aug-16				█								
D1490	AGENCY R/A SWPPP	21	50	18-Aug-16	07-Sep-16				█								
<b>Transfer VDOT Permits</b>		25	36	07-Sep-16	12-Oct-16												
D1500	P&S/A SPGP PERMIT TRANSFER REQUEST	5	36	07-Sep-16	14-Sep-16				█								
D1510	P&S/A WVP PERMIT TRANSFER REQUEST	5	36	07-Sep-16	14-Sep-16				█								
D1520	AGENCY R/A PERMIT TRANSFER REQUEST	14	50	15-Sep-16	28-Sep-16				█								
D1530	14 DAY AHJ NOTIFICATION TO BEGIN WORK	14	50	29-Sep-16	12-Oct-16				█								
<b>Treated &amp; Endangered Species</b>		10	83	21-Jun-16	04-Jul-16												
D1560	P&S/A T&E SPECIES DOCUMENTATION WITH AHJ	10	83	21-Jun-16	04-Jul-16				█								
<b>Noise Analysis &amp; Soundwall Design</b>		115	9	27-Jul-16	04-Jan-17												
D1570	PERF FINAL DESIGN NOISE ANALYSIS	20	9	27-Jul-16	24-Aug-16				█								
D1580	P&S/A DRAFT OF NOISE ABATMENT DESIGN REPORT	10	9	24-Aug-16	07-Sep-16				█								
D1590	VDOT/FHWA R/A DRAFT OF NADR	21	13	08-Sep-16	28-Sep-16				█								
D1600	INCORPORATE VDOT/FHWA COMMENT INTO FINAL NADR	5	9	28-Sep-16	05-Oct-16				█								
D1605	P&S/A FINAL NADR	15	9	05-Oct-16	26-Oct-16				█								
D1610	VDOT/FHWA R/A FINAL NADR	21	13	27-Oct-16	16-Nov-16				█								
D1620	MAIL CONCURRENCE LETTER & SURVY BENEFITTED RECEPTORS	14	13	17-Nov-16	30-Nov-16				█								
D1630	P&S/A BENEFITTED RECEPTORS SURVEY	10	9	30-Nov-16	14-Dec-16				█								
D1640	P&S/A SOUND WALL DESIGN	10	19	16-Nov-16	30-Nov-16				█								
D1650	VDOT R/A SOUNDWALL DESIGN	21	13	15-Dec-16	04-Jan-17				█								
<b>Utility Relocation (None Anticipated)</b>		94	473	21-Jun-16	28-Oct-16												
<b>Preliminary - All Utilities</b>		56	62	21-Jun-16	06-Sep-16												
U1000	CONDUCT KICKOFF MEET W/ VDOT D-B PROJECT UTIL COORD	1	33	21-Jun-16	21-Jun-16*				█								
U1010	PERF UTILITY SURVEY & DESIGNATIONS	10	46	22-Jun-16	05-Jul-16				█								
U1020	PERF UTILITY TEST PITS	15	46	06-Jul-16	26-Jul-16				█								
U1030	P&S/A PRELIM UTILITY STATUS REPORT (10/19/16)	15	46	27-Jul-16	16-Aug-16*				█								
U1040	VDOT R/A PRELIM UTILITY STATUS REPORT	21	86	17-Aug-16	06-Sep-16				█								
<b>As-Built Utilities</b>		10	473	17-Oct-16	28-Oct-16												
U1130	P/S UTILITY AS-BUILT DRAWINGS	5	473	17-Oct-16	21-Oct-16				█								
U1140	P/S CERT TO VDOT THAT ALL UTILITIES HAVE BEEN IDENTIFIED AND ADDRESSED	5	473	24-Oct-16	28-Oct-16				█								
<b>ROW Acquisition (None Anticipated)</b>		5	9	21-Jun-16	27-Jun-16												
R1000	VERIFY ROW LIMITS	5	9	21-Jun-16	27-Jun-16				█								
<b>Construction</b>		565	2	21-Jun-16	20-Aug-18												
<b>Project Management</b>		279	196	21-Jun-16	14-Jul-17												
D2120	P&S/A PRELIMINARY CONST SCHEDULE	5	2	21-Jun-16	27-Jun-16				█								
D2125	VDOT R/A PRELIMINARY BASELINE SCHEDULE	21	87	28-Jun-16	18-Jul-16				█								
D2130	P&S/A BASELINE CONST SCHEDULE (8/20/16)	37	2	28-Jun-16	17-Aug-16*				█								
D2150	VDOT R/A BASELINE CONST SCHEDULE	21	57	18-Aug-16	07-Sep-16				█								
D2160	SETUP FIELD OFFICES	10	41	07-Sep-16	21-Sep-16				█								
D2170	MOBILIZE FOR CONSTRUCTION	10	0	17-Nov-16	01-Dec-16				█								
<b>Subcontractor &amp; Material Procurement</b>		65	262	18-Aug-16	16-Nov-16												
D2180	PROCURE EROS & SED CONTROL SUB	5	16	18-Aug-16	24-Aug-16				█								
D2190	PROCURE CLEARING SUB	5	16	25-Aug-16	31-Aug-16				█								
D2195	PROCURE SEEDING SUB	5	16	01-Sep-16	07-Sep-16				█								

█ Actual Work    █ Critical Remaining Work  
█ Remaining Work    ◆ Milestone



I-95 EXPRESS LANES - SOUTHERN TERMINUS EXTENSION

PROPOSAL

SHIRLEY CONTRACTING COMPANY, LLC

CONTRACT ID NUMBER: C00108315DB90

SCHEDULE

LORTON, VA

Activity ID	Activity Name	Original Duration	Total Float	Start	Finish	2016				2017				2018				2019	
						Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1		
D2200	PROCURE PVMT MARKING SUB	5	16	08-Sep-16	14-Sep-16														
D2204	PROCURE SIGN SUB	5	16	15-Sep-16	21-Sep-16														
D2205	PROCURE ELECTRICAL SUB	5	16	22-Sep-16	28-Sep-16														
D2207	PROCURE STORM SEWER MATERIALS	5	16	29-Sep-16	05-Oct-16														
D2208	PROCURE AGGREGATE MATERIALS	5	16	06-Oct-16	12-Oct-16														
D2209	PROCURE CONCRETE MATERIALS	5	16	13-Oct-16	19-Oct-16														
D2210	PROCURE UNDERDRAIN SUB	5	16	20-Oct-16	26-Oct-16														
D2215	PROCURE ASPHALT PAVING SUB	5	149	27-Oct-16	02-Nov-16														
D2250	PROCURE GUARDRAIL SUB	5	255	03-Nov-16	09-Nov-16														
D2310	PROCURE SOUNDWALL MATERIALS	5	262	10-Nov-16	16-Nov-16														
<b>Working Drawings</b>		<b>20</b>	<b>196</b>	<b>16-Feb-17</b>	<b>16-Mar-17</b>														
D2320	P&S/A OVERHEAD SIGN SHOP DRAWINGS	5	68	16-Feb-17	23-Feb-17														
D2321	VDOT R/A SIGN SHOP DRAWINGS	21	96	24-Feb-17	16-Mar-17														
D2330	P&S/A ELECTRICAL SHOP DRAWINGS	5	9	16-Feb-17	23-Feb-17														
D2331	VDOT R/A ELECTRICAL SHOP DRAWINGS	21	13	24-Feb-17	16-Mar-17														
D2340	P&S/A SOUNDWALL SHOP DRAWINGS	5	196	16-Feb-17	23-Feb-17														
D2341	VDOT R/A SOUNDWALL SHOP DRAWINGS	21	276	24-Feb-17	16-Mar-17														
<b>Fabricate Long Lead Time Materials</b>		<b>120</b>	<b>276</b>	<b>17-Mar-17</b>	<b>14-Jul-17</b>														
D2322	FABRICATE OVERHEAD SIGN STRUCTURES	120	96	17-Mar-17	14-Jul-17														
D2332	FABRICATE ELECTRICAL EQUIPMENT / LIGHTING	90	13	17-Mar-17	14-Jun-17														
D2380	FABRICATE SOUNDWALL PANELS	120	276	17-Mar-17	14-Jul-17														
<b>Quality Assurance &amp; Quality Control</b>		<b>565</b>	<b>2</b>	<b>21-Jun-16</b>	<b>20-Aug-18</b>														
<b>Project QA/QC</b>		<b>565</b>	<b>2</b>	<b>21-Jun-16</b>	<b>20-Aug-18</b>														
D2390	P&S/A CONST QA/QC PLANS	10	2	21-Jun-16	04-Jul-16														
D2400	VDOT R/A CONST QA/QC PLANS	21	2	05-Jul-16	25-Jul-16														
D2410	CONTINUOUS QA/QC ACTIVITIES	756	2	26-Jul-16	20-Aug-18														
<b>QA/QC Prep Meetings</b>		<b>122</b>	<b>298</b>	<b>25-Jul-16</b>	<b>11-Jan-17</b>														
D2419	QA/QC PREP MEETING - SAFETY	5	48	25-Jul-16	01-Aug-16														
D2420	QA/QC PREP MEETING - MOT	5	48	01-Aug-16	08-Aug-16														
D2430	QA/QC PREP MEETING - ENVIRONMENTAL	5	48	08-Aug-16	15-Aug-16														
D2440	QA/QC PREP MEETING - INSPECTION/REPORTING/AS-BUIL	5	48	15-Aug-16	22-Aug-16														
D2450	QA/QC PREP MEETING - EROSION CONTROL	5	46	25-Aug-16	31-Aug-16														
D2455	QA/QC PREP MEETING - SEEDING	5	41	08-Sep-16	14-Sep-16														
D2460	QA/QC PREP MEETING - CLEARING	5	41	15-Sep-16	21-Sep-16														
D2470	QA/QC PREP MEETING - STORM SEWER/UNDERDRAIN	5	16	27-Oct-16	02-Nov-16														
D2480	QA/QC PREP MEETING - EXCAVATION & CHEM AGGR SOILS	5	16	03-Nov-16	09-Nov-16														
D2482	QA/QC PREP MEETING - CONCRETE	5	134	10-Nov-16	16-Nov-16														
D2485	QA/QC PREP MEETING - AGGREGATES	5	134	17-Nov-16	23-Nov-16														
D2490	QA/QC PREP MEETING - ASPH PAVING	5	134	24-Nov-16	30-Nov-16														
D2500	QA/QC PREP MEETING - PVMT MARKINGS	5	134	01-Dec-16	07-Dec-16														
D2510	QA/QC PREP MEETING - SIGNING	5	134	08-Dec-16	14-Dec-16														
D2520	QA/QC PREP MEETING - ELECTICAL, ETC, ITS	5	134	15-Dec-16	21-Dec-16														
D2540	QA/QC PREP MEETING - GUARDRAILS	5	225	22-Dec-16	28-Dec-16														
D2550	QA/QC PREP MEETING - SOUNDWALLS	5	298	29-Dec-16	04-Jan-17														
D2560	QA/QC PREP MEETING - REINF STEEL	5	298	05-Jan-17	11-Jan-17														
<b>Stage 1 Construction</b>		<b>260</b>	<b>0</b>	<b>01-Dec-16</b>	<b>30-Nov-17</b>														
<b>Maintenance of Traffic</b>		<b>260</b>	<b>0</b>	<b>01-Dec-16</b>	<b>30-Nov-17</b>														
C1000	F&I PROJECT WIDE MOT	5	0	01-Dec-16	08-Dec-16														
C1010	OPEN SB EXPRESS LANE	1	0	30-Nov-17	30-Nov-17														
<b>Area 1 South Project Limit to Sta 2241</b>		<b>224</b>	<b>30</b>	<b>08-Dec-16</b>	<b>18-Oct-17</b>														
C1020	F&I AREA SPECIFIC MOT	5	0	08-Dec-16	15-Dec-16														
C1030	F&I PERIMETER E&S/C CONTROLS	5	0	15-Dec-16	22-Dec-16														
C1040	PERF CLEARING AND GRUBBING	15	0	22-Dec-16	12-Jan-17														
C1050	F&I BALANCE OF E&S/C CONTROLS	5	0	12-Jan-17	19-Jan-17														
C1060	F&I STORM SEWER IN DEEP FILLS	15	0	19-Jan-17	09-Feb-17														
C1070	PERF EXCAV / BORROW	42	0	09-Feb-17	20-Apr-17														
C1080	F&I SHALLOW STORM SEWER PIPES	30	30	16-May-17	27-Jun-17														
C1090	F&I U/G ELECT & FIBER OPTIC	30	0	16-May-17	27-Jun-17														
C1100	F&I SIGN / ITS / LIGHT FOUNDATIONS	30	0	16-May-17	27-Jun-17														
C1110	F&I CEM TREATED AGGR BASE	10	30	27-Jun-17	11-Jul-17														
C1120	F&I UNDERDRAIN	5	30	11-Jul-17	18-Jul-17														
C1130	F&I ASPH PAVING OGD	5	30	18-Jul-17	25-Jul-17														
C1140	F&I ASPH PAVING BM-25.0A	15	30	25-Jul-17	15-Aug-17														
C1150	F&I AGGR BASE 21B	5	30	15-Aug-17	22-Aug-17														
C1160	PERF 4" ASPH MILLING	5	30	22-Aug-17	29-Aug-17														
C1170	F&I ASPH PAVING IM-19.0A	5	30	29-Aug-17	06-Sep-17														
C1180	F&I ASPH PAVING SM-12.5E	5	30	06-Sep-17	13-Sep-17														

Actual Work Remaining Work Critical Remaining Work Milestone



I-95 EXPRESS LANES - SOUTHERN TERMINUS EXTENSION

PROPOSAL

SHIRLEY CONTRACTING COMPANY, LLC

CONTRACT ID NUMBER: C00108315DB90

SCHEDULE

LORTON, VA

Activity ID	Activity Name	Original Duration	Total Float	Start	Finish	2016				2017				2018				2019		
						Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1			
C1190	F&I FINAL PVMT MARKINGS & RPMs	5	30	06-Sep-17	13-Sep-17															
C1200	F&I TOPSOIL	10	30	13-Sep-17	27-Sep-17															
C1210	F&I FINAL STABILIZATION	5	30	27-Sep-17	04-Oct-17															
C1220	F&I GUARDRAIL & MC-4	10	30	04-Oct-17	18-Oct-17															
C1230	F&I LIGHTING	30	81	27-Jun-17	08-Aug-17															
C1240	F&I HIGHWAY SIGNS	30	68	14-Jul-17	25-Aug-17															
C1250	F&I ITS DEVICES	16	0	27-Jun-17	19-Jul-17															
<b>Area 2 Sta 2241 to Sta 83</b>																				
C1260	F&I AREA SPECIFIC MOT	5	6	08-Dec-16	15-Dec-16															
C1270	F&I PERIMETER E&S/C CONTROLS	5	6	15-Dec-16	22-Dec-16															
C1280	PERF CLEARING AND GRUBBING	10	6	22-Dec-16	05-Jan-17															
C1290	F&I BALANCE OF E&S/C CONTROLS	5	6	05-Jan-17	12-Jan-17															
C1300	F&I STORM SEWER IN DEEP FILLS	14	6	12-Jan-17	01-Feb-17															
C1310	PERF EXCAV / BORROW	42	4	01-Feb-17	14-Apr-17															
C1320	F&I SHALLOW STORM SEWER PIPES	30	4	10-May-17	21-Jun-17															
C1330	F&I U/G ELECT & FO CONDUITS	30	4	10-May-17	21-Jun-17															
C1340	F&I ITS FOUNDATIONS	30	4	10-May-17	21-Jun-17															
C1350	F&I CEM TREATED AGGR BASE	15	4	21-Jun-17	12-Jul-17															
C1360	F&I UNDERDRAIN	10	4	12-Jul-17	26-Jul-17															
C1370	F&I ASPH PAVING OGD	10	4	26-Jul-17	09-Aug-17															
C1380	F&I ASPH PAVING BM-25.0A	20	4	09-Aug-17	07-Sep-17															
C1390	F&I ASPH PAVING IM-19.0A	10	4	07-Sep-17	21-Sep-17															
C1400	F&I ASPH PAVING SM-12.5E	10	4	21-Sep-17	05-Oct-17															
C1410	F&I FINAL PVMT MARKINGS & RPMs	10	4	21-Sep-17	05-Oct-17															
C1420	F&I TOPSOIL	10	4	05-Oct-17	19-Oct-17															
C1430	F&I FINAL STABILIZATION	10	4	19-Oct-17	02-Nov-17															
C1440	F&I GUARDRAIL & MC-4	15	4	02-Nov-17	23-Nov-17															
C1450	F&I ITS DEVICES	16	4	21-Jun-17	13-Jul-17															
<b>Area 3 Sta 83 to North Project Limit</b>																				
C1460	F&I AREA SPECIFIC MOT	5	114	08-Dec-16	15-Dec-16															
C1470	F&I U/G ELECT & FO CONDUITS	15	69	16-Feb-17	09-Mar-17															
C1480	F&I SIGN / ITS FOUNDATIONS	15	69	09-Mar-17	30-Mar-17															
C1490	PERF 2" ASPH MILLING	20	126	30-Mar-17	27-Apr-17															
C1500	F&I ASPH PAVING SM-12.5E	15	126	27-Apr-17	18-May-17															
C1510	F&I FINAL PVMT MARKINGS & RPMs	15	126	27-Apr-17	18-May-17															
C1520	F&I GUARDRAIL & MC-4	10	129	18-May-17	01-Jun-17															
C1530	F&I HIGHWAY SIGNS	10	88	14-Jul-17	28-Jul-17															
C1540	F&I ITS DEVICES	10	15	14-Jun-17	28-Jun-17															
<b>I-95 Express Lanes System Integration</b>																				
C1550	COMMISSION ROADSIDE EQUIPMENT (RE)	10	0	19-Jul-17	02-Aug-17															
C1560	FINISH MILESTONE FOR RE COMMISSION (8/2/17)	0	0		03-Aug-17*															
C1570	PERF LEVEL A & B TESTING	22	0	02-Aug-17	01-Sep-17															
C1580	FINISH MILESTONE FOR LEVEL A & B TESTING (9/1/17)	0	0		02-Sep-17*															
C1590	START MILESTONE LEVEL C TESTING / BURN PERIOD (9/2/17)	0	0	02-Sep-17*																
C1600	PROVIDE MOT FOR LEVEL C TESTING / BURN PERIOD BY T	59	0	02-Sep-17	30-Oct-17															
C1610	FINISH MILESTONE LEVEL C TESTING / BURN PERIOD (10/3/17)	0	0		31-Oct-17*															
C1620	START MILESTONE FOR OPERATIONAL READINESS (10/31/17)	0	0	01-Nov-17*																
C1630	OPERATIONAL READINESS / VDOT APPROVAL	29	0	01-Nov-17	29-Nov-17															
C1640	FINISH MILESTONE FOR OPERATIONAL READINESS (11/29/17)	0	0		30-Nov-17*															
<b>Stage 2 Construction</b>																				
<b>Maintenance of Traffic</b>																				
C1740	OPEN NB EXPRESS ON RAMP	1	77	19-Apr-18	20-Apr-18															
C1750	REMOVE GARRISONVILLE RD SB I-95 ON RAMP MOT PROT	1	0	07-Aug-18	07-Aug-18															
<b>Area 4 I-95 NB Express Lanes On Ramp</b>																				
C1675	COMPLETE ROAD CONTROL GATES	20	77	01-Dec-17	28-Dec-17															
<b>Area 4 I-95 Express Lanes System Integration</b>																				
C1680	COMMISSION ROADSIDE EQUIPMENT (RE)	10	77	29-Dec-17	11-Jan-18															
C1690	PERF LEVEL A & B TESTING	20	77	12-Jan-18	08-Feb-18															
C1700	PROVIDE MOT FOR LEVEL C TESTING	30	77	09-Feb-18	22-Mar-18															
C1710	PERF LEVEL C TESTING (BY TRANSORE)	30	77	09-Feb-18	22-Mar-18															
C1720	OPERATIONAL READINESS/VDOT APPROVAL	14	109	23-Mar-18	05-Apr-18															
<b>Area 5 Soundwall CNE NN</b>																				
C1760	F&I AREA SPECIFIC MOT	5	0	01-Dec-17	07-Dec-17															
C1770	F&I PERIMETER E&S/C CONTROLS	10	0	08-Dec-17	21-Dec-17															
C1780	PERF CLEARING AND GRUBBING	20	0	22-Dec-17	18-Jan-18															
C1790	F&I BALANCE OF E&S/C CONTROLS	10	0	19-Jan-18	01-Feb-18															
C1800	PERF EXCAV / BORROW	22	0	02-Feb-18	05-Mar-18															

Actual Work Remaining Work Critical Remaining Work Milestone



**I-95 EXPRESS LANES - SOUTHERN TERMINUS EXTENSION**

**PROPOSAL**

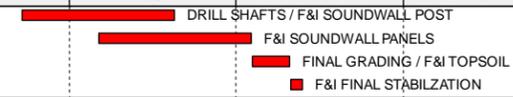
**SHIRLEY CONTRACTING COMPANY, LLC**

**CONTRACT ID NUMBER: C00108315DB90**

**SCHEDULE**

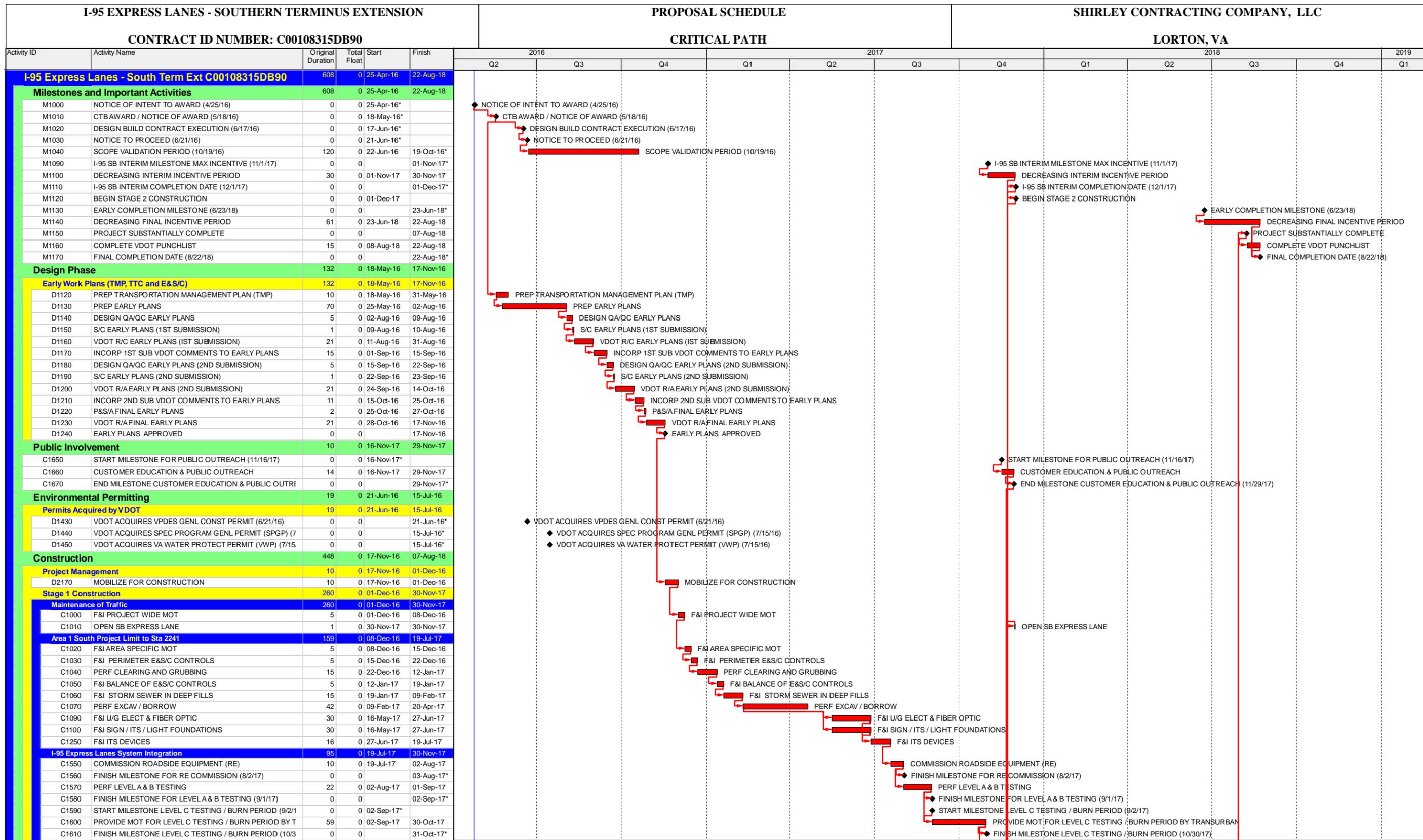
**LORTON, VA**

Activity ID	Activity Name	Original Duration	Total Float	Start	Finish	2016			2017				2018				2019	
						Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	
C1810	DRILL SHAFTS / F&I SOUNDWALL POST	60	0	06-Mar-18	28-May-18													
C1820	F&I SOUNDWALL PANELS	60	0	17-Apr-18	09-Jul-18													
C1830	FINAL GRADING / F&I TOPSOIL	15	0	10-Jul-18	30-Jul-18													
C1840	F&I FINAL STABILIZATION	5	0	31-Jul-18	06-Aug-18													



■ Actual Work    ■ Critical Remaining Work  
■ Remaining Work    ◆ Milestone

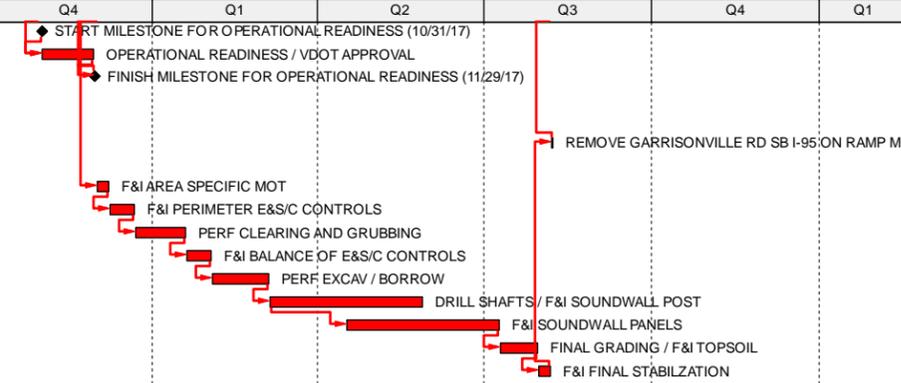




█ Actual Work    █ Critical Remaining Work  
█ Remaining Work    ◆ Milestone



I-95 EXPRESS LANES - SOUTHERN TERMINUS EXTENSION						PROPOSAL SCHEDULE						SHIRLEY CONTRACTING COMPANY, LLC					
CONTRACT ID NUMBER: C00108315DB90						CRITICAL PATH						LORTON, VA					
Activity ID	Activity Name	Original Duration	Total Float	Start	Finish	2016			2017			2018				2019	
						Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1
C1620	START MILESTONE FOR OPERATIONAL READINESS (10/31/17)	0	0	01-Nov-17*													
C1630	OPERATIONAL READINESS / VDOT APPROVAL	29	0	01-Nov-17	29-Nov-17												
C1640	FINISH MILESTONE FOR OPERATIONAL READINESS (11/29/17)	0	0		30-Nov-17*												
<b>Stage 2 Construction</b>		<b>178</b>	<b>0</b>	<b>01-Dec-17</b>	<b>07-Aug-18</b>												
<b>Maintenance of Traffic</b>		<b>1</b>	<b>0</b>	<b>07-Aug-18</b>	<b>07-Aug-18</b>												
C1750	REMOVE GARRISONVILLE RD SB I-95 ON RAMP MOT PROT	1	0	07-Aug-18	07-Aug-18												
<b>Area 5 Soundwall CNE NN</b>		<b>177</b>	<b>0</b>	<b>01-Dec-17</b>	<b>06-Aug-18</b>												
C1760	F&I AREA SPECIFIC MOT	5	0	01-Dec-17	07-Dec-17												
C1770	F&I PERIMETER E&S/C CONTROLS	10	0	08-Dec-17	21-Dec-17												
C1780	PERF CLEARING AND GRUBBING	20	0	22-Dec-17	18-Jan-18												
C1790	F&I BALANCE OF E&S/C CONTROLS	10	0	19-Jan-18	01-Feb-18												
C1800	PERF EXCAV / BORROW	22	0	02-Feb-18	05-Mar-18												
C1810	DRILL SHAFTS / F&I SOUNDWALL POST	60	0	06-Mar-18	28-May-18												
C1820	F&I SOUNDWALL PANELS	60	0	17-Apr-18	09-Jul-18												
C1830	FINAL GRADING / F&I TOPSOIL	15	0	10-Jul-18	30-Jul-18												
C1840	F&I FINAL STABILIZATION	5	0	31-Jul-18	06-Aug-18												



█ Actual Work    █ Critical Remaining Work  
█ Remaining Work    ◆ Milestone

