APRIL 5, 2016

ORIGINAL

LETTER OF SUBMITTAL AND ATTACHEMENTS
VOLUME I

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

PREPARED FOR:

VDOT

SUBMITTED BY:

LANE

4.1 LETTER OF SUBMITTAL

LANE

April 5, 2016

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

RE: I-95 Express Lanes – Southern Terminus Extension
State Project No.: 0095-969-720, P101, R201, C501
Federal Project No.: STP-000S (321)
Contract ID Number: C00108315DB90

Dear Mr. Shah:

The Lane Construction Corporation (LANE) is pleased to present this Statement of Qualifications for the above referenced project to the Virginia Department of Transportation (VDOT). Our response contains all information requested in the Request for Proposals (RFP) and subsequent Addenda. LANE is teamed with Rinker Design Associates, PC (RDA) as the Lead Designer. The LANE Team has assembled committed personnel, with proven delivery of VDOT's requirements to meet the quality, safety, and schedule demands of this Project.

4.1.1 Identification of Legal Entity Who Will Execute the Contract with VDOT: Mr. Robert E. Watt is the point of contact and authorized representative for the LANE team for all matters associated with this project.

The Lane Construction Corporation
14500 Avion Parkway, Suite 200
Chantilly, VA 20151

4.1.2 Offeror's Intent: LANE's intention is to enter into a contract with VDOT for the Project in accordance with the terms of the RFP.

4.1.3 120 Day Declaration: Pursuant to Part 1, Section 8.2, LANE declares that the offer represented by this Proposal will remain in full force and effect for one hundred twenty (120) days after the date of the Letter of Submittal and Attachments are submitted to VDOT.

4.1.4 Identification of the Point of Contact: Mr. Robert E. Watt is the authorized representative and Point of Contact for the LANE Team.

Robert E. Watt, Pursuit Manager
14500 Avion Parkway, Suite 200
Chantilly, VA 20151
Tel: (703) 222-5670 Fax: (703) 222-5960
Email: REWatt@laneconstruct.com

4.1.5 Offeror's Principal Officer Information: Mr. David J. Rankin is the principal officer of The Lane Construction Corporation.

David J. Rankin, Senior Vice President
14500 Avion Parkway, Suite 200
Chantilly, VA 20151
Tel: (704) 553-6500 Fax: (703) 222-5960
Email: DJRankin@laneconstruct.com

4.1.6 Interim Milestone and Final Completion Dates: In accordance with RFP Section 2.3.1, LANE proposes an Interim Milestone Date of 12/01/2017 and a Final Completion Date of 08/22/2018.

4.1.7 Executed Proposal Payment Agreement: An executed Proposal Payment Agreement (Attachment 9.3.1) can be found in the Appendix of Volume I.

4.1.8 Certification Regarding Debarment Forms: Certifications for Debarment for both Primary and Lower Tier Covered Transactions have been completed and executed for the Offeror and all subconsultants, subcontractors, and other entities as identified as members of the LANE Team. These can be found in the Appendix of Volume I.

4.1.9 DBE Statement: LANE supports the Disadvantaged Business Enterprise (DBE) program and is committed to meeting the **15%** goal for the design and construction of this Project utilizing Virginia certified DBE companies. LANE will take all necessary steps to ensure that DBE firms have the maximum opportunity to compete for and perform services on this Design-Build contract.

The LANE Team appreciates the opportunity to propose on this critically important project. We look forward to partnering with VDOT to make the I-95 Express Lanes – Southern Terminus Extension project a landmark success for the citizens of Virginia.

Respectfully submitted,

Robert E. Watt
Pursuit Manager
The Lane Construction Corporation

4.2 ATTACHMENTS TO THE LETTER OF SUBMITTAL

4.2 | ATTACHMENTS TO THE LETTER OF SUBMITTAL

4.2.1 Qualifications of Key Personnel

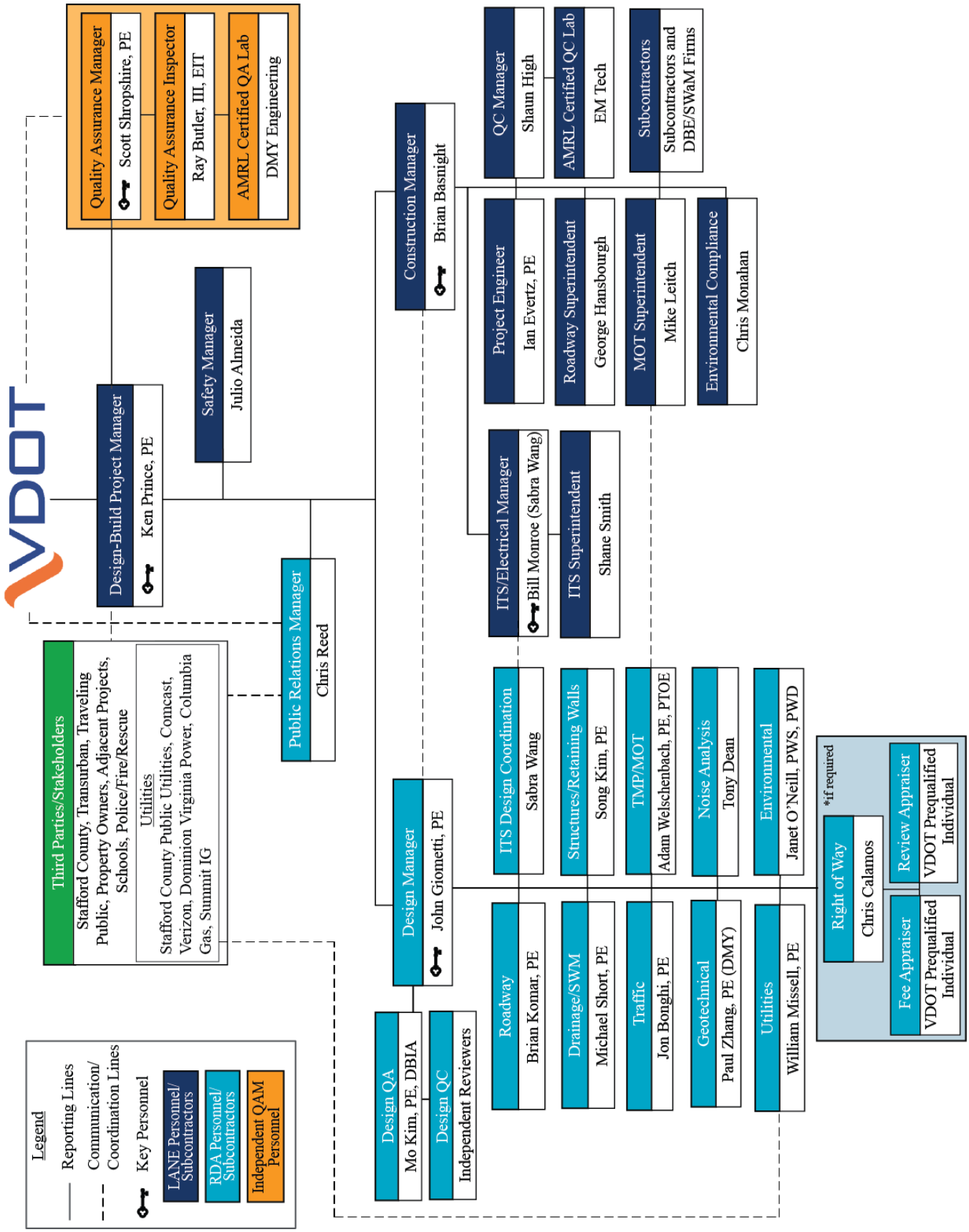
LANE confirms all information presented in the Statement of Qualifications (SOQ) remains true and accurate in accordance with Part 1, Section 11.4. As demonstrated in the organizational chart presented on the following page, the Team proposed by LANE, including but not limited to our organizational structure, lead contractor, lead designer, key personnel, and other individuals identified pursuant to Part 1, Section 4.2, will remain intact for the duration of the contract.

Organizational Chart

There are no changes from Section 3.3.2 of the SOQ submitted to VDOT and dated February 8, 2016.

Under the leadership of our Design-Build Project Manager, Mr. Ken Prince, PE, the LANE Team is structured to effectively manage and deliver the design and construction of this project. The LANE Team is organized to provide VDOT with a single-source point of contact, responsible for all design and construction activities. Our team organization has a straightforward chain of command, with individual tasks and functional responsibilities clearly identified. This organizational chart identifies key personnel and major functions to be performed for the successful management, design, and construction of the project. No changes have been made to the Offeror's organizational structure, Lead Contractor, Lead Designer, Key Personnel or other individuals identified in the Offeror's SOQ (dated February 8, 2016). Though reporting relationships are rigid, the lines of communication within the team will remain fluid and flexible to meet the requirements of each individual project task. In order to prevent unnecessary project delays, at times it may be prudent for other members within the LANE Team to communicate directly with their counterparts at VDOT. This will be directed and authorized in advance by Mr. Prince and the VDOT Project Manager.

Likewise, there have been no revisions made to the narrative describing the functional relationships among participants for the organizational chart.


VDOT
Quality Assurance Manager
Scott Shropshire, PE
Quality Assurance Inspector
Ray Butler, III, EIT
AMRL Certified QA Lab
DMY Engineering
Safety Manager
Julio Almeida
Design-Build Project Manager
Ken Prince, PE
Public Relations Manager
Chris Reed
Construction Manager
Brian Basnight
QC Manager
Shaun High
AMRL Certified QC Lab
EM Tech
Subcontractors
Subcontractors and DBE/SWaM Firms
Project Engineer
Ian Evertz, PE
Roadway Superintendent
George Hansbourgh
MOT Superintendent
Mike Leitch
Environmental Compliance
Chris Monahan
ITS/Electrical Manager
Bill Monroe (Sabra Wang)
ITS Superintendent
Shane Smith
Third Parties/Stakeholders
Stafford County, Transurban, Traveling Public, Property Owners, Adjacent Projects, Schools, Police/Fire/Rescue
Utilities
Stafford County Public Utilities, Comcast, Verizon, Dominion Virginia Power, Columbia Gas, Summit IG
Design Manager
John Giometti, PE
ITS Design Coordination
Sabra Wang
Structures/Retaining Walls
Song Kim, PE
TMP/MOT
Adam Welschenbach, PE, PTOE
Noise Analysis
Tony Dean
Environmental
Janet O'Neill, PWS, PWD
Design QA
Mo Kim, PE, DBIA
Design QC
Independent Reviewers
Roadway
Brian Komar, PE
Drainage/SWM
Michael Short, PE
Traffic
Jon Bonghi, PE
Geotechnical
Paul Zhang, PE (DMY)
Utilities
William Missell, PE
*if required
Right of Way
Chris Calamos
Fee Appraiser
VDOT Prequalified Individual
Review Appraiser
VDOT Prequalified Individual
Legend
Reporting Lines
Communication/ Coordination Lines
Key Personnel
LANE Personnel/ Subcontractors
RDA Personnel/ Subcontractors
Independent QAM Personnel

4.2.2 Conceptual Roadway Plans

The Conceptual Roadway Plans showing the general Project layout are included in Volume II. They include copies of (a) plan view indicating the number of lanes specified in the RFP Information Package, and (b) typical sections of the proposed improvements to the I-95 Southern Terminus Extension. The Conceptual Roadway Plans meet the requirements of the Design Criteria Table (Attachment 2.2 of Part 2) and indicate that the limits of construction are within the existing/proposed right-of- way limits shown in the RFP Conceptual Plans.

4.2.4 Proposal Schedule and Narrative

The LANE Team has thoroughly evaluated the RFP documents, performed numerous site visits, attended the pre-proposal meeting, and held numerous working sessions amongst our design and construction teams in order to plan the most safe and efficient method for completing this important project. Through this progression, we have developed a solution to deliver the Project as outlined on or ahead of schedule. This narrative explains how we will deliver a highly successful Project to VDOT and to the satisfaction of all stakeholders.

4.2.4.1 Proposal Schedule

The Proposal Schedule is located in Volume II.

This CPM schedule outlines LANE Team's proposed plan to accomplish the Work; and it depicts the LANE Team's overall sequence of work, times during each work task, and the major deliverables required to complete the Work. This Proposal schedule is broken down into major phases of the Project using the hierarchical Work Breakdown Structure, and it clearly shows the anticipated Critical Path, the review responsibilities of VDOT, and other regulatory agencies, as well as the Work by the LANE Team, its suppliers and subcontractors.

4.2.4.2 Proposal Schedule Narrative

The LANE Team has developed a Proposal Schedule narrative for our overall plan to execute the Work. The narrative includes the overall sequencing of Project, the Critical Path, LANE Team's proposed means and method, and other key assumptions on which the schedule is based. The narrative also explains how the LANE Team plans to optimize the benefits of the D-B delivery method to mitigate risks, conform to the RFP requirements including MOT restrictions, minimize impacts of construction activities to existing I-95 traffic movements and deliver the Project safely and on-time.

Key Milestone

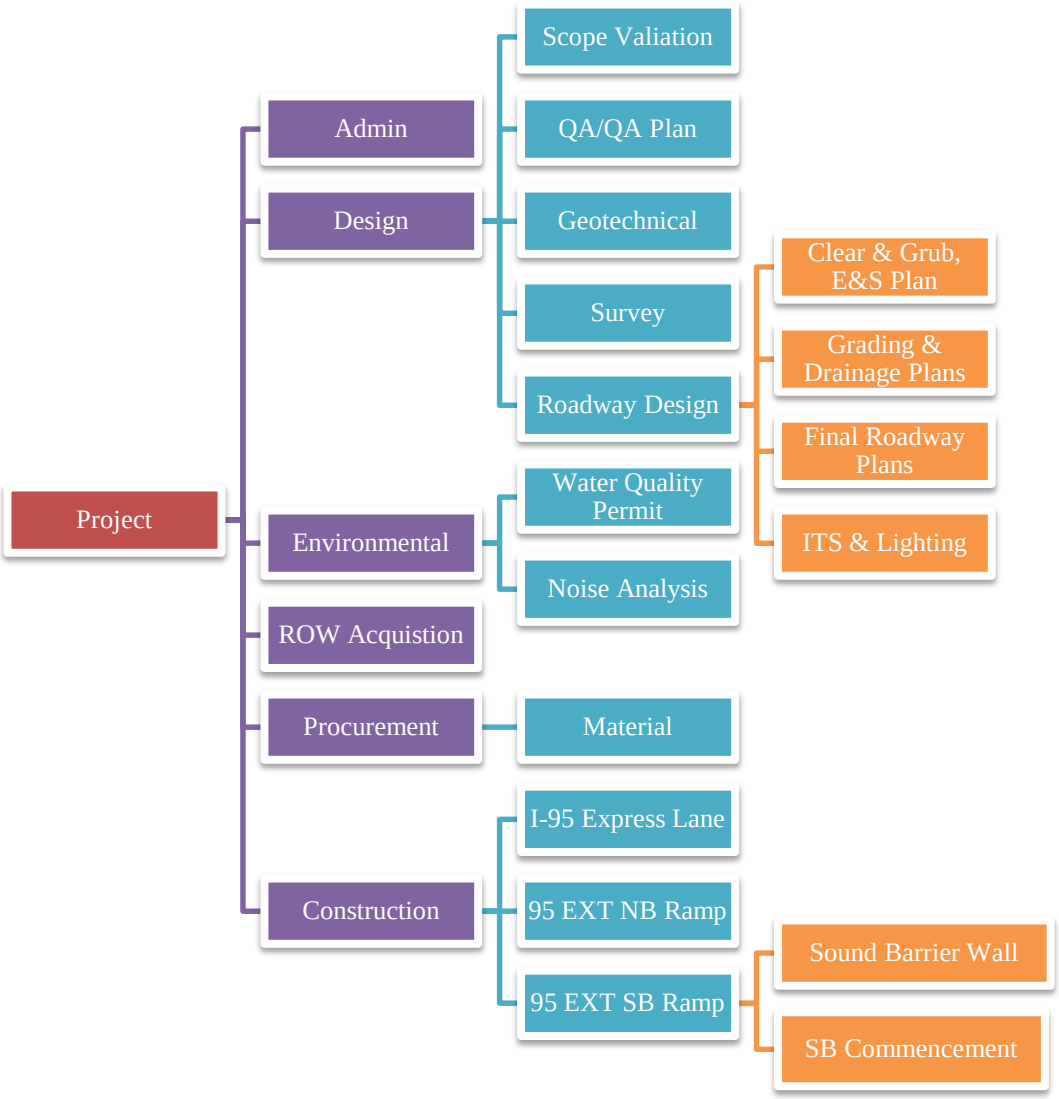
The LANE Team is committed to the Interim milestone and Final Completion date of December 1, 2017, and August 22, 2018, respectively. The table below identifies Key Milestone dates, which in order to be met, will require close coordination between the D-B Team, VDOT and Transurban. Post Project award, the LANE Team, comprised of experienced team members, will implement our assertive D-B approach and local experience, relationships and corridor knowledge to potentially improve these dates.

Key Milestone	Milestone Date
Notice of Intent to Award	April 25, 2016
CTB Approval / Notice of Award	May 18, 2016
Design-Build Contract Execution	June 17, 2016
Notice to Proceed	June 21, 2016
Scope Validation Period Complete	October 18, 2016
Start of Construction	August 1, 2016
Interim Milestone	December 1, 2017
Final Completion Date	August 22, 2018

Work Breakdown Structure (WBS)

The WBS is a multi-level, hierarchical arrangement of the work to be performed on the Project. The LANE Team has laid out the WBS to break down the major phases of the Project by Project Element and type of work. The type of work has been broken down by Phases, Areas and respective components such as Milestones, Project Management, Scope Validation, Environmental/Permitting, ROW, Design, Public Involvement, Utility Relocation, and Construction.

The WBS areas for the Project have been developed as a collaborative effort between the design and construction teams by evaluating the Project as a whole, including type of work along the alignments, in addition to design considerations and management of the construction efforts.



Levels 2, 3, and 4 of the WBS as depicted in the Proposal Schedule includes but is not limited to the following items for the respective Project components:

- **Administration**: includes the contract milestones, the start and completion milestones of major project components, and the monitoring of project durations.
- **Design**: includes survey, geotechnical engineering services, plan development, QA/QC review, constructability reviews and VDOT review, comment and approval of the design at prescribed stages. This section includes additional levels to the WBS – grouping the design activities by type of design submission packages which include Geotechnical and Roadway packages.

- **Environmental and Permitting**: comprises the activities required to obtain the key environmental permits – water quality and noise analysis.
- **Construction**: includes all the components of the ITS construction, roadway construction, and mill-and-overlay paving including but not limited to: MOT, erosion & sediment controls, QA/QC, storm water management, drainage, lighting, excavation, embankment, and sign foundation and structures..

Calendars

The LANE team uses five (5) different calendars to represent a variety of work scenarios:

- **"7 d with No Holiday & No Weather"** – Based on seven days per week and is used for review periods and milestones.
- **"5 d with Holidays for Design"** – Based on five working days per week and includes standard holidays. Used for design activities and work not impacted by adverse weather and holiday restrictions.
- **"5 d with Weather & Holiday"** – Based on five working days per week, specified holiday restrictions, and anticipated weather days. Used for construction activities.
- **"5 d Paving with Holiday"** – Based on the "*Construction*" with non-working periods from December through February. Used for asphalt paving activities.
- **"5 d Final Paving with Holiday"** – Based on the "*Construction*" with extended non-working periods from November through March.

For weather analysis, LANE has reviewed the weather data (January 2011 to December 2015) provided by NOAA observation station at Quantico MCAS, VA (http://www.ncdc.noaa.gov/cdo-web/). Using a 0.1 inch of precipitation per day as the threshold for weather impact, and taking into consideration of weekends, LANE accounts the following number of weather days each month:

Month	Anticipated Weather Days
Jan	3
Feb	3
Mar	5
Apr	4
May	4
Jun	6
Jul	3
Aug	4
Sep	4
Oct	4
Nov	3
Dec	6

LANE will observe the following holidays between 2016, 2017 and 2018, and marks the following dates as standard holiday days in the applicable calendar:

Holiday	2016	2017	2018
New Year		1/2/2017	1/1/2018
Memorial Day		5/29/2017	5/28/2018
4th July	7/4/2016	7/4/2017	7/4/2018
Labor Day	9/5/2016	9/4/2017	9/3/2018
Thanksgiving 1	11/24/2016	11/23/2017	11/22/2018
Thanksgiving 2	11/25/2016	11/24/2017	11/23/2018
Christmas	12/26/2016	12/25/2017	12/25/2018

Activity Identification

The LANE Team is proposing a smart activity identification system in the Level 2 Master Schedule, in which a unique alphanumeric is utilized. Each activity identification is broken down into 4 parts identifying: Phase of work, Work Area, Sub-Location, and Unique Identifier, described in detail below:

As an example is C 100 B 2680.

Phase of work | Work Area | Sub-Phase | Unique Identifier

A. Project Phase of Work – The first digit in the Activity ID represents the phase of the project with the abbreviation and orders as follows:
   - A = Administration / Project Management
   - D = Design
   - P = Procurement
   - C = Construction
B. Work Area – The 2nd to 4th digit in the Activity ID represents the work area of the project with the abbreviation and orders as follows:
   - 000 = Project Wide
   - 100 = I-95 Express Lane STA 2232+59 to 2309+17
   - 200 = I-95 Express Lane NB Ramp STA 3200+00 to 3232+14
   - 300 = I-95 Express Lane SB Ramp STA 2232+59 to 2193+00
   - 301 = SB Ramp Sound Barrier Wall STA 4000+00 to 4042+68
   - 302 = SB Traffic Service Commencement
C. Sub-Location – The 5th digit in the Activity ID represents the sub-location within a work area of the project with the abbreviation and orders as follows:
   - - = Area Wide
D. Unique Identifier - The last four digits in the activity identification structure are numeric increment starting with 1000, and incremented in steps of 10. This is done to leave ample room between activities so that additional activities may be inserted as necessary.

Plan and Strategy

The LANE Team has developed a comprehensive plan to complete the I-95 Express Lanes – Southern Terminus Extension in a timely and professional manner. Our goal is to minimize the number of construction phases and

eliminate any traffic shifts. This will increase safety, reduce the overall duration of construction, diminish interruptions to I-95 traffic, and provide a better quality product to VDOT.

Design

The LANE Team has strategically organized our design deliverables to optimize the project field operations, which will improve the Project schedule, overall efficiency, and minimize VDOT's review burden. The Design processes are organized as follows:

- Scope Validation – 120 days period to validate the project scope
- Geotechnical – geotechnical field investigation and report preparation.
- Survey – supplemental survey for verification and update purposes
- Roadway Design – deliverables include clear & grub plans, E&S plans, grading and drainage plans, final roadway plans, and ITS & Lighting plans.

Environmental /Permitting

The environmental and permitting for the I-95 Express Lanes – South Terminus Extension Project are critical to the Project success. For the purpose of the proposal schedule, the LANE Team showed the water quality permit and VDOT acquired permits that control the start of clearing and grubbing in all areas. The baseline schedule may contain additional necessary environmental and permitting activities, such as the development and approval of the Noise Abatement Design Report (NADR).

ROW Acquisition

It may be necessary to acquire ROW for utility easements in order to provide electrical service at the southern terminus of the Project. ROW acquisition will be performed in accordance with the RFP and VDOT requirements. The initiation of the ROW Acquisition phase is dependent on the Approval of the Acquisition and obtaining the Notice to Commence Acquisition from VDOT. Our project schedule reflects the necessary durations needed to perform all right of way acquisition tasks including Title Reports, Appraisals, Appraisal Reviews, Submittal of Offers, Negotiations, and Settlement/Closing.

Utility Relocation

Based on the conceptual design provided by VDOT and our Proposal Design, the LANE Team currently does not anticipate any utility conflicts within the work areas.

Public Involvement

Public Involvement activities will be performed as required in the contract documents and relevant tasks are included in our proposal schedule. The activities included in our proposal schedule consist of:

- NADR notifications and outreach
- Provide support necessary for customer education, and public outreach
- The LANE Team will meet and/or exceed the Public Involvement / Relation requirement per RFP Part 2 - Technical Requirement Section 2.11.

QA / QC Inspection, Acceptance and Testing

QA/QC activities will be performed as required in the contract documents and relevant tasks are included in our proposal schedule. The activities included in our proposal schedule consist of:

- QA/QC Plan Submittal – the process is represented by the activity ("D000-1010").
- QA/QC Plan Presentation – is represented by the activity ("D000-1020").
- QA/QC review of design packages – the process is included in the design deliverable development duration.
- Design and Construction Hold Points – The LANE Team will incorporate hold points in the Baseline schedule.

- VDOT Inspections for independent assurance (IA) and independent verification (IA) are taken into consideration for estimating the duration of construction operations.
- Factory Acceptance Test (FAT) and Production Verification Tests are incorporated into the material fabrication activity durations.
- Construction testing and commissioning will be performed as each area is completed. This will be clearly depicted in the schedule.

Construction

The LANE Team's phases of construction on which this schedule is based, has been developed to mitigate impacts to the traveling public, delays to construction and ultimately, facilitate final completion of the project on or before August 22, 2018. The LANE Team realizes potential delays could include:

- Excessive unsuitable soils in the project alignment
- Chemically Aggressive Soil Condition
- Additional ROW for utility easements
- Excessive or unexpected deviations to Transurban's schedule

In order to construct the Project effectively, the LANE Team has subdivided the Project into three work areas. This allows for strategic allocation of resources effective risk mitigation and optimal start construction time. The 3 work areas are as follow:

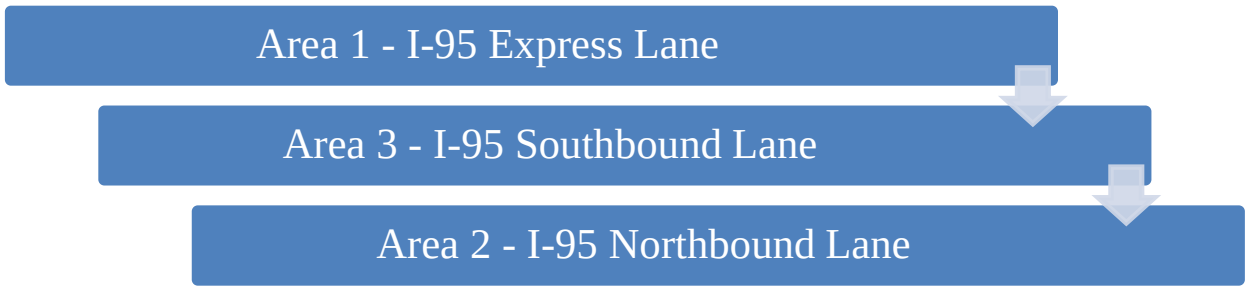
1. Area 1 – I-95 Express Lane Extension approximate station 2232+59 to 2309+17. The scope work includes but not limited to: MOT, erosion control, clear-and-grub, installation of drainage, earthwork, asphalt paving, installation of sign foundations and structures, installation of lighting, construction of BMP water treatment facilities (ponds), installation of ITS and electrical systems, , installation of guardrail, E&S, replacement of existing emergency crossover and mill-over-lay of existing pavement.
2. Area 2 – I-95 Northbound Ramp approximate station 3200+00 to 3232+14. The scope work includes but not limited to: MOT, erosion control, clear-and-grub, partial removal of existing roadway, installation of drainage, earthwork, asphalt paving, installation of sign foundations and structures, installation of lighting, construction of BMP water treatment facilities (ponds), installation of ITS system, construction of ITS and electrical and systems, installation of guardrail, E&S, installation of access gates, and mill-over-lay of existing pavement.
3. Area 3 – I-95 Southbound Ramp approximate station 2193+00 to2232+59. The scope work includes but not limited to: MOT, erosion control, clear-and-grub, partial removal of existing roadway, relocation of existing stream channel, installation of drainage, earthwork, asphalt paving, installation sign foundations and structures, installation of lighting, construction of BMP water treatment facilities (ponds), installation of ITS system, construction of electrical and system duct banks, installation of guardrail, sod-and-seed, construction of sound barrier wall, and mill-over-lay of existing pavement.

Sequence of Construction

In developing the schedule and construction sequencing, the LANE Team put public safety first and has included measures to limit disruptions to I-95 and Express Lane traffic. The sequence of construction starts with Area 1 (I-95 Express Lane Extension) median tree clearing/grubbing, and related MOT which is then followed by earthwork, drainage, sub-grade establishment, sub-base installation, sign, lighting and ITS foundations and then asphalt paving. Guardrail, ITS components, roadway lighting, and sign panels will then be installed. The last construction operation of the area will be the tie-in operations for the ITS fiber and installation of the ITS HUB cabinet and other ITS hardware. The LANE Team will perform all testing, commissioning and coordination activities as prescribed in the RFP so as to meet all Project Milestones.

The LANE Team will start Area 3 (SB Ramp) construction activities sequential to Area 1 with some overlap as depicted in our schedule. The construction sequence for Area 3 SB Ramp is similar to Area 1 activities. The December 1, 2017 interim milestone and all associated requirements will be met, specifically Part 2, Section 2.9.5.15.3 integration requirements. Following all necessary VDOT design approvals, MOT and erosion control measures will be implemented, which is followed by tree clearing and clearing and grubbing activities for both Southbound exit ramp as well as the noise barrier. The installation of sound barrier foundation and posts will start after site prep, and the erection of wall panels will follow the post installation. The final operation of this Work will be site clean-up, restoration and provisions for maintenance access. The sound barrier wall construction will progress largely independent of the SB Ramp construction, since the two locations are not directly connected. The completion of Area 1 and 3 will be followed by Service Commencement of I-95 Southbound traffic and Interim Milestone.

LANE will then start Area 2 (NB Ramp) construction. The construction sequence of Area 2 NB Ramp is similar to Area 3 SB Ramp construction except for the installation of access gates. The completion of Area 2 will be followed by Service Commencement of I-95 Northbound traffic and the Project Final Completion Milestone of August 22, 2018.



Operation Readiness and Service Commencement

In order to achieve the Interim Milestone, the Project must achieve Service Commencement for southbound traffic by December 1, 2017. The LANE Team has created the following the activities to represent the Service Commencement Process for I-95 Southbound Traffic:

1. C302-1020, Area 3 - Operation Readiness & Service Commencement Period. This activity represents the 120-days prior to Interim Milestone and Service Commencement, all TMS roadside equipment shall be installed and will have achieved Commissioning.
2. C302-1030, Area 3 - Completed Level A & B Testing. This activity represents the 90-days prior to Interim Milestone and Service Commencement, all TMS roadside equipment shall have completed both Level A and B Testing.
3. C302-1040, Area 3 - Level C Testing and Burn-In Period by Transurban. This activity represents the 60 day period (day 31 to 90), when Transurban will perform the Level C Testing and the Burn Period.
4. C302-1050, Area 3 - Final Operational Readiness and VDOT Approval for Service Commencement. This activity represents the final operational readiness and VDOT approval for I-95 Southbound Service Commencement.
5. C302-1060, Area 3 - Service Commencement. This activity is the Finish Milestone representing achievement of Service Commencement for I-95 Southbound traffic.

In order to achieve the Final Completion Milestone, the Project must achieve Service Commencement for the entire project by August 22, 2018. The LANE Team has created the following activities that represent the Service Commencement Process for I-95 Northbound Traffic:

1. C000-1060, PJW (Project Wide) - Operation Readiness & Service Commencement Period. This activity represents the 120-days prior to Interim Stone and Service Commencement, all TMS roadside equipment shall installed and will have achieved Commissioning.

2. C000-1000, PJW - Completed Level A & B Testing. This activity represents the 90-days prior to Interim Stone and Service Commencement, all TMS roadside equipment shall have completed both Level A and B Testing.
3. C000-1020, PJW - Level C Testing and Burn-In Period by Transurban. This activity represents the 60 day period (day 31 to 90), when Transurban will perform the Level C Testing and the Burn Period.
4. C000-1040, PJW - Final Operational Readiness and VDOT Approval for Service Commencement. This activity represents the final operational readiness and VDOT approval for I-95 Northbound Service Commencement.
5. C000-1030, Area 3 - Service Commencement. This activity is the Finish Milestone representing achievement of Service Commencement for the Project.

Critical Path

There are two critical paths in the Project which lead to the Interim Milestone and the Project Final Completion Milestones respectively.

1. The critical path to Interim Milestone starts with NTP and ROW acquisition (utility easement only) process. This will allow the Project to install the duct bank, fiber and related signage and hardware which will allow for operations of the SB only traffic. The critical path will then follow the Area 1 construction sequence to install duct bank(s) and related fiber, pull-and-terminate wire, and perform testing as required in the RFP. This is followed the Service Commencement of southbound traffic, and Interim Milestone.
2. The critical path to Project Final Completion Milestone also starts with the NTP. The receipt of SPGP and VWP Permits from VDOT is the first critical path activity after NTP. This is followed by the clear and grubbing, installation of deep drainage, excavation and embankment, and installation of shallow drainage in Area 1. The critical path will then follow the drainage crew resource flow from Area 1 to Area 3 installation of drainage. The critical path then follows Area 3 construction sequence until construction of BMP ponds. The critical path will then follow the earth crew resource flow from Area 3 to Area 1 BMP ponds, and then Area 2 excavation and embankment. The critical path then follows Area 2 construction sequence until the completion of the work area, the Service Commencement of northbound traffic, and the final completion of the Project.

Key Assumptions

The LANE Team made the following key assumptions on which our Proposal Schedule is based:

- There are no contaminated soils in the Project.
- The D-B Team can resolve any corrosive soil issue encountered in the project site in a timely manner.
- The roadway alignment will not encounter an excessive amount of unsuitable fill, which will impact the overall progress of the Project.
- VDOT will turn-over the SPGP and VWP permits by September 30, 2016.
- Threatened and Endangered species – TOYR period for tree removal is June 1 to July 31.
- Effective partnering and coordination between the LANE Team, the VDOT, Transurban, all adjacent contracts, as well as all stakeholders.

Schedule Management

Effective management and control of a construction project of this scope requires the use of a proven software package for scheduling, documentation control, cost control, and design functions of the integrated team concept

to the Design-Build approach. The LANE Team shall develop and maintain the Project Schedule in accordance with the VDOT Special Provision for Design-Build Project Schedule (RFP Exhibit 11.1).

The LANE Team will use Primavera P6 (P6) scheduling software to plan, schedule, and monitor its construction projects. This software is an industry standard of practice for scheduling projects allows us to plan, organize, and control the project with the Precedence Diagram Method (PDM) of scheduling. As a management tool, P6 is powerful and flexible enough to handle all project scheduling needs, including the following capabilities:

- CPM scheduling
- Cost management
- Resource management
- Data exchange
- Reporting capabilities
- Networking

P6 also has tools to assist the project management team in tracking and forecasting the project performance from the milestone level to the smallest work activity.

LANE will coordinate the scope of all project-related activities to establish a timely Critical Path Method (CPM) job schedule that will help ensure an on-time completion and identify potential risks. LANE's Project Controls will be coordinated from the on-site project office. The Project Engineer is responsible for scheduling, cost engineering, and cost forecasting. The Design-Build Project Manager, supported by the Construction Manager, is ultimately responsible for the implementation of the project controls system.

Upon award of the contract, LANE's project team will collaborate to develop the Preliminary and the Baseline schedule based on the proposal design plans. To control time spent on activities, LANE will develop a detailed, time-phased CPM project schedule, prepared with timelines outlined within the scope of work, with the assistance of their Corporate Scheduling Department. After an internal analysis and review of the general schedule logic and critical path, the schedule is completed. The P6 software program is used to generate a time-scaled logic diagram reflecting the interdependencies of all the activities incorporated into the schedule. In addition, other various tabular reports are produced, as required, for submission to the owner.

This schedule will indicate the necessary procurement and construction activities for each area of the project. Various calendars will be incorporated into the project schedule to reflect holidays, seasonal work, temperature and precipitation restrictions, owner requirements, etc. The activities within the CPM schedule will be organized according to a WBS that has been developed for the project. An Activity Coding Structure will be utilized in the project schedule to organize data output. The project schedule will be the tool used for coordination by both on-site and off-site LANE management. Schedule updates are used by managers to review progress and coordinate the efforts of all entities involved. A full-time on-site engineer is tasked with the responsibility to track schedule progress on a daily basis and provide monthly updates.

Detailed schedules are used to plan and monitor specific items of work and will be prepared as necessary to deal with individual work packages or smaller work activities as the need arises. As the work progresses, start dates, finish dates, percent complete, and remaining durations will be updated to report the progress of each work activity. The Construction Manager will incorporate updated data into the CPM schedule on a monthly basis, review the results internally and with the owner, and prepare the required reports for submittal. Monthly updates of the CPM schedule provide the foundation of progress reports utilized by the project team.

When changes or unforeseen circumstances arise that impacts the project schedule, the LANE Team will immediately notify VDOT (and other appropriate stakeholders) and begin incorporating changes into the "live" CPM schedule. If changes to any task or phase in the schedule result in schedule slippage, the Design-Build Project Manager will divide the task into its components to determine the reason(s) for falling behind. LANE will develop and implement a recovery plan to put the project back on track. Progress can then be tracked daily via the schedule compared to the previously accepted schedule. LANE's management will evaluate any slippage

to determine if additional manpower, equipment, multiple shifts, a change in subcontractor, or additional subcontractors is required. If so, the necessary resources will be mobilized to correct the slippage and maintain the schedule. Scheduling practices and concerns will be clearly communicated to all subcontractors and key suppliers. Delays and schedule slippage will not be tolerated.

Conclusion

The LANE Team has developed a Proposal Schedule and Proposal Schedule Narrative that demonstrates our understanding of the complexities and interrelationships of the technical elements of the Project. Additionally, our Proposal Schedule takes into account: design development, internal plan reviews, VDOT plan reviews and approvals, Transurban's schedule and coordination efforts, environmental permitting, right of way acquisitions, utility relocations, and construction activities.

The LANE Team is committed to meet or exceed all RFP milestones and requirements and to facilitate effective partnering with VDOT and Transurban as well as all stakeholders to successfully deliver this important Project.

APPENDIX

ATTACHMENT 4.0.1.1
LETTER OF SUBMITTAL AND ATTACHMENTS CHECKLIST

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.

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

ATTACHMENT 4.0.1.1

I-95 Express Lanes – Southern Terminus Extension

LETTER OF SUBMITTAL AND ATTACHMENTS CHECKLIST

Technical Proposal Component	Form (if any)	RFP Part 1 Cross Reference	Page Reference
Attachments to the Letter of Submittal	NA	Section 4.2	**Pgs. 3-15**
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	**3**
Organizational chart with any updates since the SOQ submittal clearly identified	NA	Section 4.2.1	**4**
Revised narrative when organizational chart includes updates since the SOQ submittal	NA	Section 4.2.1	**3**
Conceptual Roadway Plans – Plan View	NA	Section 4.2.2	**Volume II**
Conceptual Roadway Plans – Typical Sections	NA	Section 4.2.2	**Volume II**
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**
Proposal Schedule	NA	Section 4.2.4	**Pgs. 6-15**
Proposal Schedule	NA	Section 4.2.4.1	**Volume II**
Proposal Schedule Narrative	NA	Section 4.2.4.2	**6-15**
Proposal Schedule in electronic format (CD-ROM)	NA	Section 4.2.4	**CD-ROM**

ATTACHMENT 3.6
FORM C-78-RFP

Form C-78-RFP

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	4/4/16 DATE
Robert E. Watt PRINTED NAME	Pursuit Manager TITLE

ATTACHMENT 9.3.1
PROPOSAL PAYMENT AGREEMENT

ATTACHMENT 9.3.1
PROPOSAL PAYMENT AGREEMENT

THIS PROPOSAL PAYMENT AGREEMENT (this "Agreement") is made and entered into as of this 5th day of April, 2016, by and between the Virginia Department of Transportation ("VDOT"), and The Lane Construction Corporation ("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: _____

The Lane Construction Corporation

By: _____

Name: Robert E. Watt

Title: Pursuit Manager

ATTACHMENT 11.8.6(a)
DEBARMENT FORM- PRIMARY COVERED TRANSACTIONS

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.

	April 4, 2016	Pursuit Manager
Signature	Date	Title

The Lane Construction Corporation
Name of Firm

ATTACHMENT 11.8.6(b)
DEBARMENT FORM- LOWER TIER COVERED TRANSACTIONS

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.

	3/30/2016	President
Signature	Date	Title

Rinker Design Associates, P.C.
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.

	3-14-16	Principal Engineer
Signature	Date	Title

Engineering & Materials Technologies, Inc. (E.M. Tech)
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	4/1/2016 Date	Vice President & CEO Title

Sabra, Wang & Associates, 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.

	4/1/2016	Vice President
Signature	Date	Title

DMY Engineering Consultants Inc.

Name of Firm

LANE

14500 AVION PARKWAY
SUITE 200
CHANTILLY, VA 20151
703.222.5670

www.laneconstruct.com

APRIL 5, 2016

ORIGINAL

LETTER OF SUBMITTAL AND ATTACHEMENTS
VOLUME II

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

PREPARED FOR:

VDOT

SUBMITTED BY:

LANE

4.2.2 CONCEPTUAL ROADWAY PLANS

LIMITED ACCESS HIGHWAY By Resolution of Commonwealth Transportation Board dated January 18, 2001
By Resolution of Highway Commission dated October 4, 1956

STATE	FEDERAL AID PROJECT	STATE ROUTE	STATE PROJECT	SHEET NO.
VA.		95	0095-969-720 (SEE TABULATION BELOW FOR SECTION NUMBERS)	1

FHWA-534-DATA-3A101
PPMS NO. _____

INDEX OF SHEETS

SHEET NO.	DESCRIPTION
1	TITLE SHEET
2A - 2B	TYPICAL SECTIONS
3 - 13	ROADWAY AND DRAINAGE PLANS
3a - 11a	ROADWAY PROFILES
14(1) - 14(21)	ITS, SIGNAGE, & LIGHTING PLANS

COMMONWEALTH OF VIRGINIA
DEPARTMENT OF TRANSPORTATION

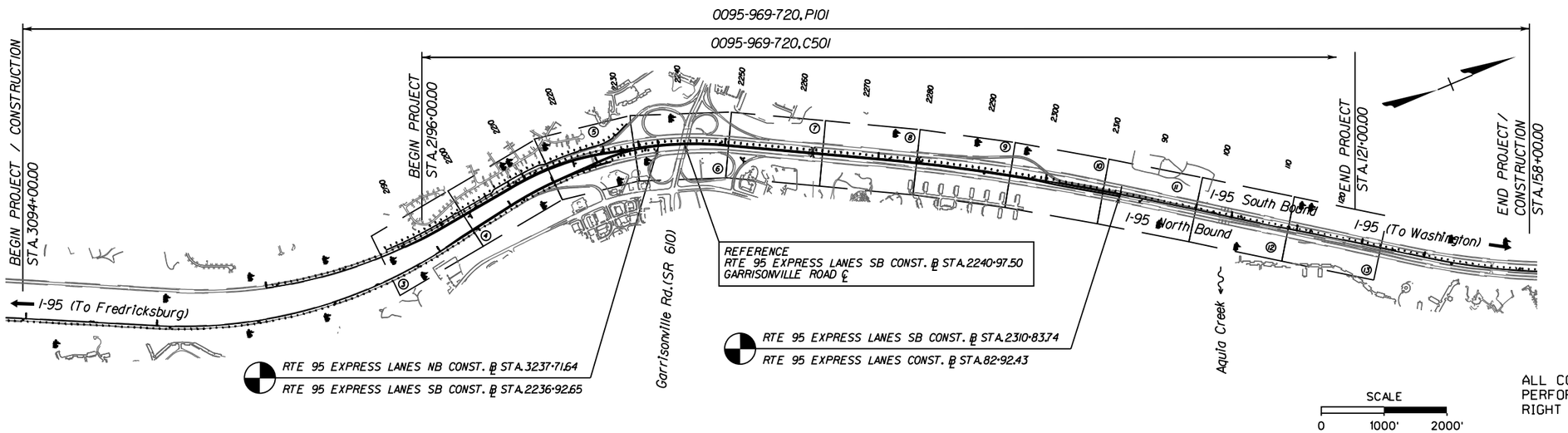
PLAN AND PROFILE OF PROPOSED STATE HIGHWAY

DESIGN BUILD PROJECT
95 EXPRESS LANES
SOUTHERN TERMINUS EXTENSION
CONCEPTUAL PLANS

From: MILE MARKER 142.5 (SOUTH OF GARRISONVILLE ROAD)
To: MILE MARKER 145.0 (NORTH OF GARRISONVILLE ROAD)

FUNCTIONAL CLASSIFICATION AND TRAFFIC DATA	
95 EXPRESS LANES - RURAL ROLLING TERRAIN - 70 MPH MIN. DES. SPEED	
	FROM: 0.9 MI S. OF GARRISONVILLE ROAD TO: 1.3 MIN. OF GARRISONVILLE ROAD
FUNCTIONAL CLASSIFICATION	RURAL PRINCIPAL ARTERIAL
GEOM. DESIGN	GS-1
ADT (Current Year)	0
ADT (Design Year)	20,000
D (%) (design hour)	100%
T (%) (design hour)	0%
V (MPH)	*

* SEE PLAN & PROFILE SHEET FOR HORIZONTAL AND VERTICAL CURVE DESIGN SPEEDS.



ALL CONSTRUCTION IS TO BE PERFORMED WITHIN EXISTING RIGHT OF WAY.

Population Stafford County 128,961 (2010 Census)

STATE PROJECT NO.	SECTION	FEDERAL AID PROJECT NO.	TYPE CODE	UPC NO.	EQUALITIES FEET	LENGTH INCLUDING BRIDGE(S) FEET	LENGTH INCLUDING BRIDGE(S) MILES	LENGTH EXCLUDING BRIDGE(S) FEET	LENGTH EXCLUDING BRIDGE(S) MILES	BRIDGE PLAN NO.	TYPE PROJECT	DESCRIPTION
0095-969-720	P101			108315		29341.31	5.557	29341.31	5.557		PREL. ENGR.	From: 0.9 MI. SOUTH OF GARRISONVILLE ROAD
	C501		1000	108315		14991.31	2.839	14991.31	2.839		CONSTR.	To: 2.0 MI. NORTH OF GARRISONVILLE ROAD

Project Lengths are based on:
- *95 Express Lanes NB Ramp Construction Baseline from Sta.3094+00.00 to 3197+50.00*
- *95 Express Lanes SB Ramp Construction Baseline from Sta.2196+00.00 to 2310+83.74, and*
- *95 Express Lanes Construction Baseline from Sta.82+92.43 to 158+00.00*

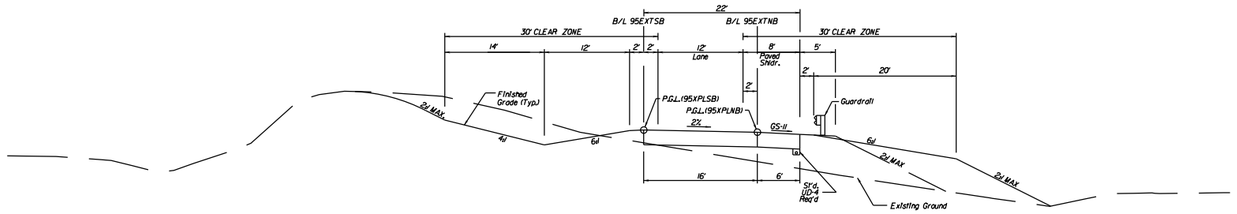
LANE

Copyright 2016, Commonwealth of Virginia

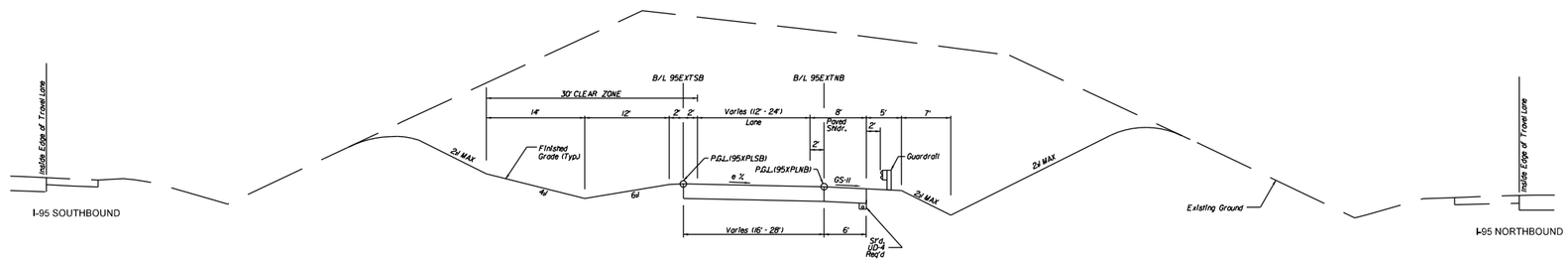
REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.	95	(FO) 0095-969-720 C-501	2A

TYPICAL SECTIONS

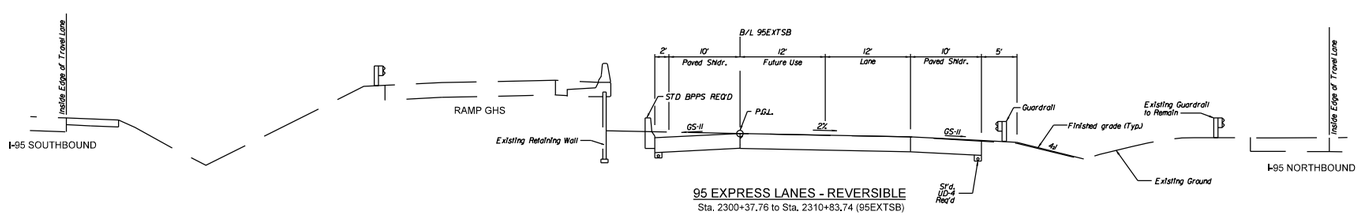
DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT



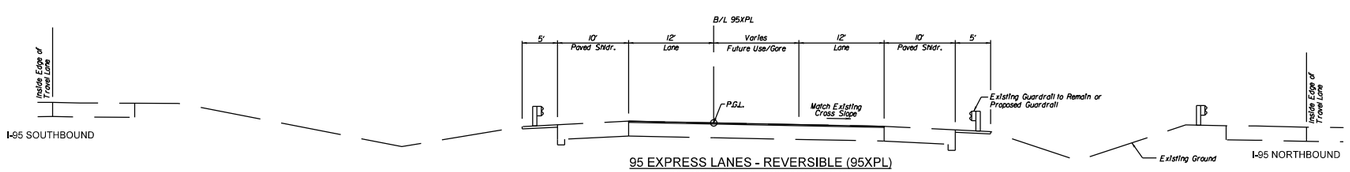
95 EXPRESS LANES - REVERSIBLE
Sta. 2221+12.43 to Sta. 2231+32.76 (95XPLSB)
Sta. 2236+92.65 to Sta. 2300+37.76 (95XPLSB)
Sta. 3220+00.00 to Sta. 3232+14.16 (95XPLNB)



95 EXPRESS LANES - REVERSIBLE (95XPL)
Sta. 2231+32.76 to Sta. 2236+92.65 (95XPLSB)
Sta. 3232+14.16 to Sta. 3237+71.64 (95XPLNB)



95 EXPRESS LANES - REVERSIBLE
Sta. 2300+37.76 to Sta. 2310+83.74 (95EXTSB)



95 EXPRESS LANES - REVERSIBLE (95XPL)
Sta. 82+92.43 to Sta. 121+00.00 (95XPL)

Minimum Pavement Sections

Southbound Sta. 2193+00.00 to Sta. 2221+12.43
Northbound Sta. 3200+00.00 to Sta. 3229+62.56

Pavement Areas Adjacent to Existing I-95 GP Lanes:

Surface: 2.0 Inches of Asphalt Concrete Surface Course SM-12.5E
Intermediate: minimum 2.0 Inches of Asphalt Concrete Intermediate Course IM-19.0A
Base: minimum 11.0 Inches of Asphalt Concrete Base Course BM-25.0A
Drainage: 3.0 Inches of Stabilized Open Graded Drainage Layer (OGDL)
Subbase: 6.0 Inches of Cement Treated Aggregate (CTA)

Minimum Existing Pavement Resurfacing Requirements:

Milling Existing Pavement: minimum 4.0 Inches
Surface: 2.0 Inches of Asphalt Concrete Surface Course SM-12.5E
Wedge and Leveling: minimum 2.0 Inches of Asphalt Concrete Intermediate Course IM-19.0A

Minimum New Shoulder Pavement Requirements:
Surface: 2.0 Inches of Asphalt Concrete Surface Course SM-12.5E
Intermediate: minimum 2.0 Inches of Asphalt Concrete Intermediate Course IM-19.0A
Base: minimum 11.0 Inches of Asphalt Concrete Base Course BM-25.0A
Drainage: 3.0 Inches of Stabilized Open Graded Drainage Layer (OGDL)
Subbase: 6.0 Inches of Cement Treated Aggregate (CTA)

Paving Adjacent to Guardrail:
Surface: 2.0 Inches of Asphalt Concrete Surface Course SM-12.5E
Intermediate: 2.0 Inches of Asphalt Concrete Intermediate Course IM-19.0A

Southbound Sta. 2221+12.43 to Sta. 2232+59.00
Northbound Sta. 3225+42.59 to Sta. 3233+39.99
Reversible Sta. 2232+59.00 to 2310+83.74 &
Sta. 82+92.43 to approx. Sta. 121+00.00

Pavement Areas Not Adjacent to Existing I-95 GP Lanes:

Surface: 2.0 Inches of Asphalt Concrete Surface Course SM-12.5E
Intermediate: minimum 2.0 Inches of Asphalt Concrete Intermediate Course IM-19.0A
Base: minimum 11.0 Inches of Asphalt Concrete Base Course BM-25.0A
Drainage: 3.0 Inches of Stabilized Open Graded Drainage Layer (OGDL)
Subbase: 6.0 Inches of Cement Treated Aggregate (CTA)

Minimum Existing Pavement Resurfacing Requirements:

Milling Existing Pavement: minimum 2.0 Inches
Surface: 2.0 Inches of Asphalt Concrete Surface Course SM-12.5E

Minimum New Shoulder Pavement Requirements:
Minimum Width: 6 feet
Surface: 2.0 Inches of Asphalt Concrete Surface Course SM-12.5E
Intermediate: minimum 2.0 Inches of Asphalt Concrete Intermediate Course IM-19.0A
Subbase: 21.0 Inches of Aggregate Base Material, Type I, Size No. 21B

Paving Adjacent to Guardrail:
Surface: 2.0 Inches of Asphalt Concrete Surface Course SM-12.5E
Intermediate: 2.0 Inches of Asphalt Concrete Intermediate Course IM-19.0A

VDOT COMMONWEALTH OF VIRGINIA DEPARTMENT OF TRANSPORTATION

I-95 EXPRESS LANES SOUTHERN TERMINUS EXTENSION
ROADWAY AND DRAINAGE PLAN

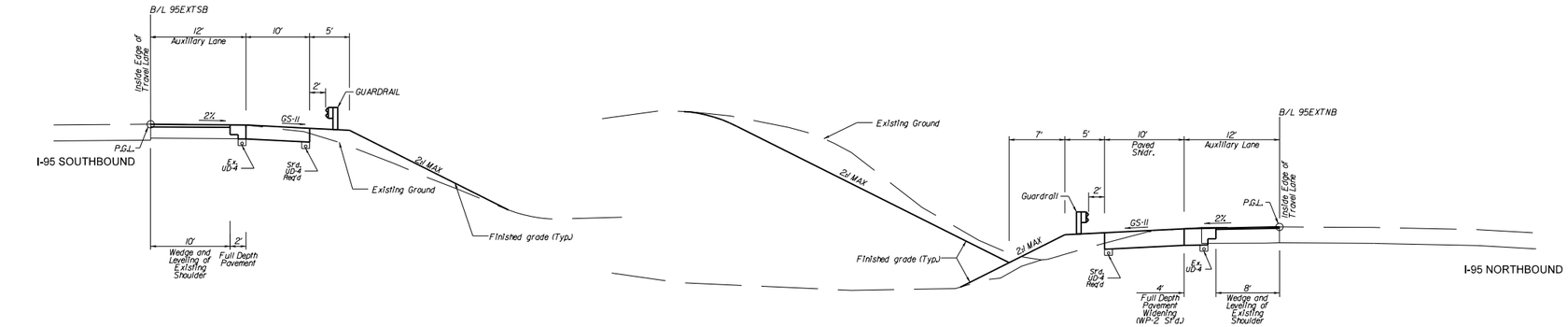
LANE rda

PROJECT	SHEET NO.
(FO) 0095-969-720 C-501	2A

TYPICAL SECTIONS

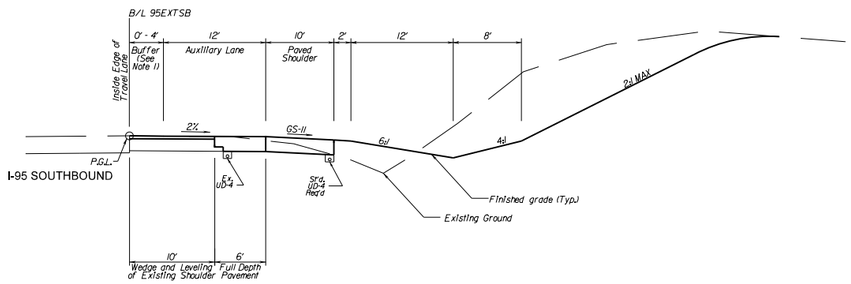
REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.	95	(F0) 0095-969-720 C-501	2B

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



95 EXPRESS LANES RAMP (95EXTNB)
Sta. 3200+00.00 to Sta. 3220+00.00

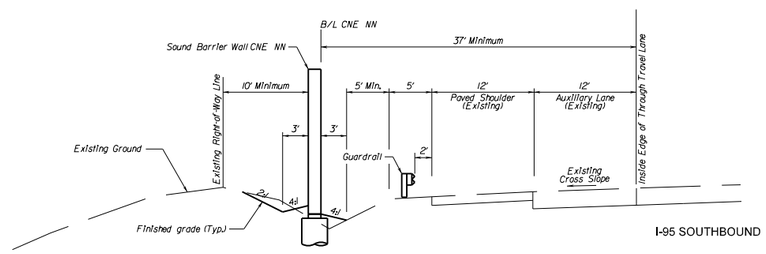
95 EXPRESS LANES RAMP (95EXTSB)
Sta. 2193+00.00 to Sta. 2205+00.00



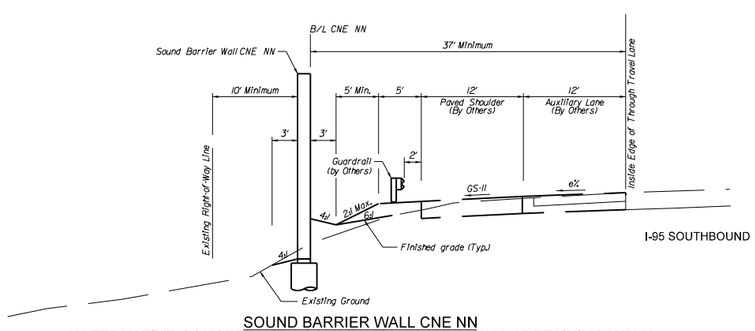
95 EXPRESS LANES RAMP (95EXTSB)
Sta. 2205+00.00 to Sta. 2221+12.43

NOTES:

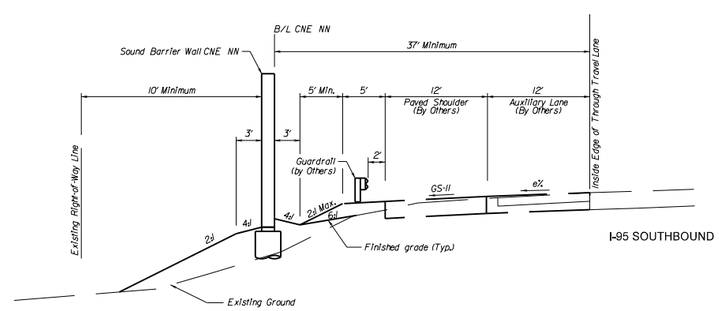
1. Buffer Varies from 0' to 4' from Sta.2205+00.00 to 2210+00.00.
   Buffer Is 4' from Sta.2210+00.00 to 2217+50.00.
   Buffer Varies from 4' to 14' from Sta.2217+50.00 to 2221+12.43.



SOUND BARRIER WALL CNE NN
Sta. 4025+00.00 to Sta. 4043+68.00



SOUND BARRIER WALL CNE NN
(ALTERNATIVE CONCEPT WITH COMBINATION SOUNDWALL / RETAINING WALL)
Sta. 4000+00.00 to Sta. 4025+00.00



SOUND BARRIER WALL CNE NN
Sta. 4000+00.00 to Sta. 4025+00.00

Minimum Pavement Sections

Southbound Sta.2193+00.00 to Sta.2221+12.43
Northbound Sta.3200+00.00 to Sta.3229+62.56

Pavement Areas Adjacent to Existing I-95 GP Lanes:

Surface: 2.0 Inches of Asphalt Concrete Surface Course SM-12.5E
Intermediate: minimum 2.0 Inches of Asphalt Concrete Intermediate Course IM-19.0A
Base: minimum 11.0 Inches of Asphalt Concrete Base Course BM-25.0A
Drainage: 3.0 Inches of Stabilized Open Graded Drainage Layer (OGDL)
Subbase: 6.0 Inches of Cement Treated Aggregate (CTA)

Minimum Existing Pavement Resurfacing Requirements:

Milling Existing Pavement: minimum 4.0 Inches
Surface: 2.0 Inches of Asphalt Concrete Surface Course SM-12.5E
Wedge and Leveling: minimum 2.0 Inches of Asphalt Concrete Intermediate Course IM-19.0A

Minimum New Shoulder Pavement Requirements:
Surface: 2.0 Inches of Asphalt Concrete Surface Course SM-12.5E
Intermediate: minimum 2.0 Inches of Asphalt Concrete Intermediate Course IM-19.0A
Base: minimum 11.0 Inches of Asphalt Concrete Base Course BM-25.0A
Drainage: 3.0 Inches of Stabilized Open Graded Drainage Layer (OGDL)
Subbase: 6.0 Inches of Cement Treated Aggregate (CTA)

Paving Adjacent to Guardrail:
Surface: 2.0 Inches of Asphalt Concrete Surface Course SM-12.5E
Intermediate: 2.0 Inches of Asphalt Concrete Intermediate Course IM-19.0A

Southbound Sta.2221+12.43 to Sta.2232+59.00
Northbound Sta.3225+42.59 to Sta.3233+39.99
Reversible Sta.2232+59.00 to 2310+83.74 &
Sta.82+92.43 to approx.Sta.121+00.00

Pavement Areas Not Adjacent to Existing I-95 GP Lanes:

Surface: 2.0 Inches of Asphalt Concrete Surface Course SM-12.5E
Intermediate: minimum 2.0 Inches of Asphalt Concrete Intermediate Course IM-19.0A
Base: minimum 11.0 Inches of Asphalt Concrete Base Course BM-25.0A
Drainage: 3.0 Inches of Stabilized Open Graded Drainage Layer (OGDL)
Subbase: 6.0 Inches of Cement Treated Aggregate (CTA)

Minimum Existing Pavement Resurfacing Requirements:

Milling Existing Pavement: minimum 2.0 Inches
Surface: 2.0 Inches of Asphalt Concrete Surface Course SM-12.5E

Minimum New Shoulder Pavement Requirements:
Minimum Width: 6 feet
Surface: 2.0 Inches of Asphalt Concrete Surface Course SM-12.5E
Intermediate: minimum 2.0 Inches of Asphalt Concrete Intermediate Course IM-19.0A
Subbase: 21.0 Inches of Aggregate Base Material,Type I,Size No.21B

Paving Adjacent to Guardrail:
Surface: 2.0 Inches of Asphalt Concrete Surface Course SM-12.5E
Intermediate: 2.0 Inches of Asphalt Concrete Intermediate Course IM-19.0A

VDOT COMMONWEALTH OF VIRGINIA DEPARTMENT OF TRANSPORTATION

I–95 EXPRESS LANES SOUTHERN TERMINUS EXTENSION
ROADWAY AND DRAINAGE PLAN

LANE

PROJECT	SHEET NO.
(F0) 0095-969-720 C-501	2B

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.	95	(FO) 0095-969-720 C-501	3

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

LEGEND

DIRECTION OF TRAVEL		PROPOSED GUARDRAIL	
PROPOSED TRAVEL LANE		PROPOSED GUARDRAIL TERMINAL	
PROPOSED PAVED SHOULDER		PROPOSED IMPACT ATTENUATOR	
PROPOSED RESURFACING OF EXISTING PAVEMENT		PROPOSED INLET	■ OR ■
PROPOSED SWM MAINTENANCE ACCESS ROAD/MEDIAN CROSSOVER		PROPOSED HEADWALL WITH RIPRAP	
PROPOSED SWM BASIN LOCATION		PROPOSED DRAINAGE PIPE	
EXISTING RIGHT OF WAY AND LIMITED ACCESS LINE		PROPOSED DRAINAGE DITCH	

BEGIN SOUND BARRIER WALL CNE NN
STA 4000+00

SOUND BARRIER WALL CNE NN

END ASPHALT CURB & GUARDRAIL
STA 2203+58.40 (95EXTSB)

Curve 95EXTSB-1
PI = 2185+09.34
DELTA = 22° 18' 31.43" (LT)
D = 0° 44' 55"
T = 1,509.34'
L = 2,980.44'
R = 7,654.71'
PC = 2170+00.00
PT = 2199+80.44
E = 2.8%
V = 70 mph

BEGIN GUARDRAIL (GR-2)
STA 2192+99.29 (95EXTSB)

BEGIN ASPHALT CURB & GR-2A
STA 2194+22.55 (95EXTSB)

BEG. PROJ 0095-969-720, C501
STA. 2196+00

2196+00.00
95EXTSB

Proposed Stream Relocation

St'd. GR-2 Req'd.

St'd. GR-2A Req'd.

St'd. GR-2 Req'd.

BEGIN GUARDRAIL (GR-2)
STA 3198+50.00 (95EXTNB)

PT 3198+90.72

BEGIN ASPHALT CURB & GR-2A
STA 3202+99.76 (95EXTNB)

St'd. GR-2A Req'd.

St'd. GR-2 Req'd.

3203+00.00
95EXTNB

Curve 95EXTNB-3
PI = 3176+05.08
DELTA = 35° 34' 40.50" (LT)
D = 0° 45' 08"
T = 2,443.70'
L = 4,729.34'
R = 7,616.28'
PC = 3151+61.38
PT = 3198+90.72
E = 2.8%
V = 70 mph

RETENTION BASIN III

Station 2204+00 Match Line Sheet 4

Station 3205+00 Match Line Sheet 4

SCALE
0 100' 200'

VDOT COMMONWEALTH OF VIRGINIA
DEPARTMENT OF TRANSPORTATION

I-95 EXPRESS LANES SOUTHERN TERMINUS EXTENSION

ROADWAY AND DRAINAGE PLAN

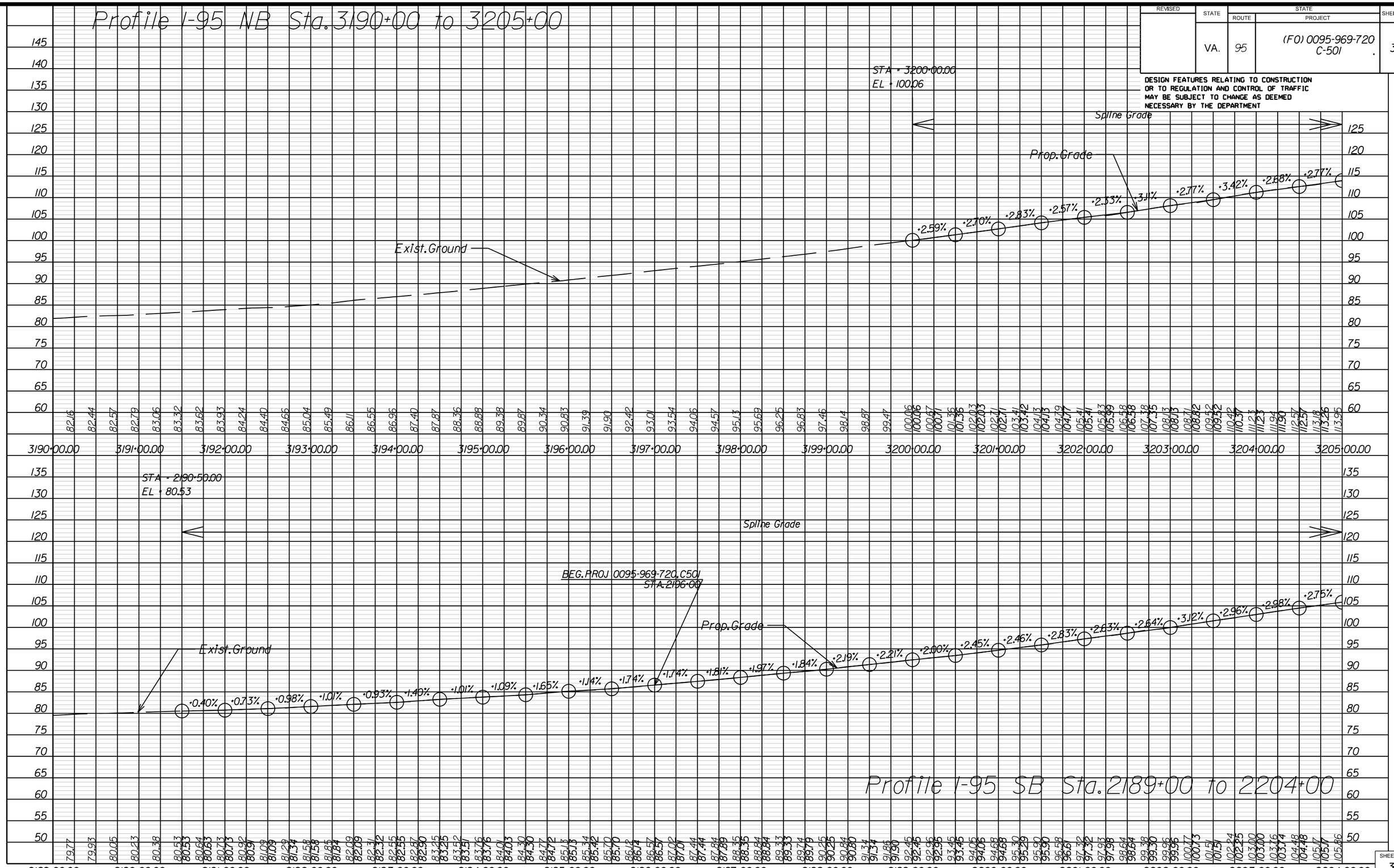
STA. 3190+00 TO STA. 3205+00 I-95 NB
STA. 2189+00 TO STA. 2204+00 I-95 SB

LANE rda

PROJECT	SHEET NO.
(FO) 0095-969-720 C-501	3

REVISED	STATE	ROUTE	STATE PROJECT	SHEET NO.
	VA.	95	(FO) 0095-969-720 C-501	3a

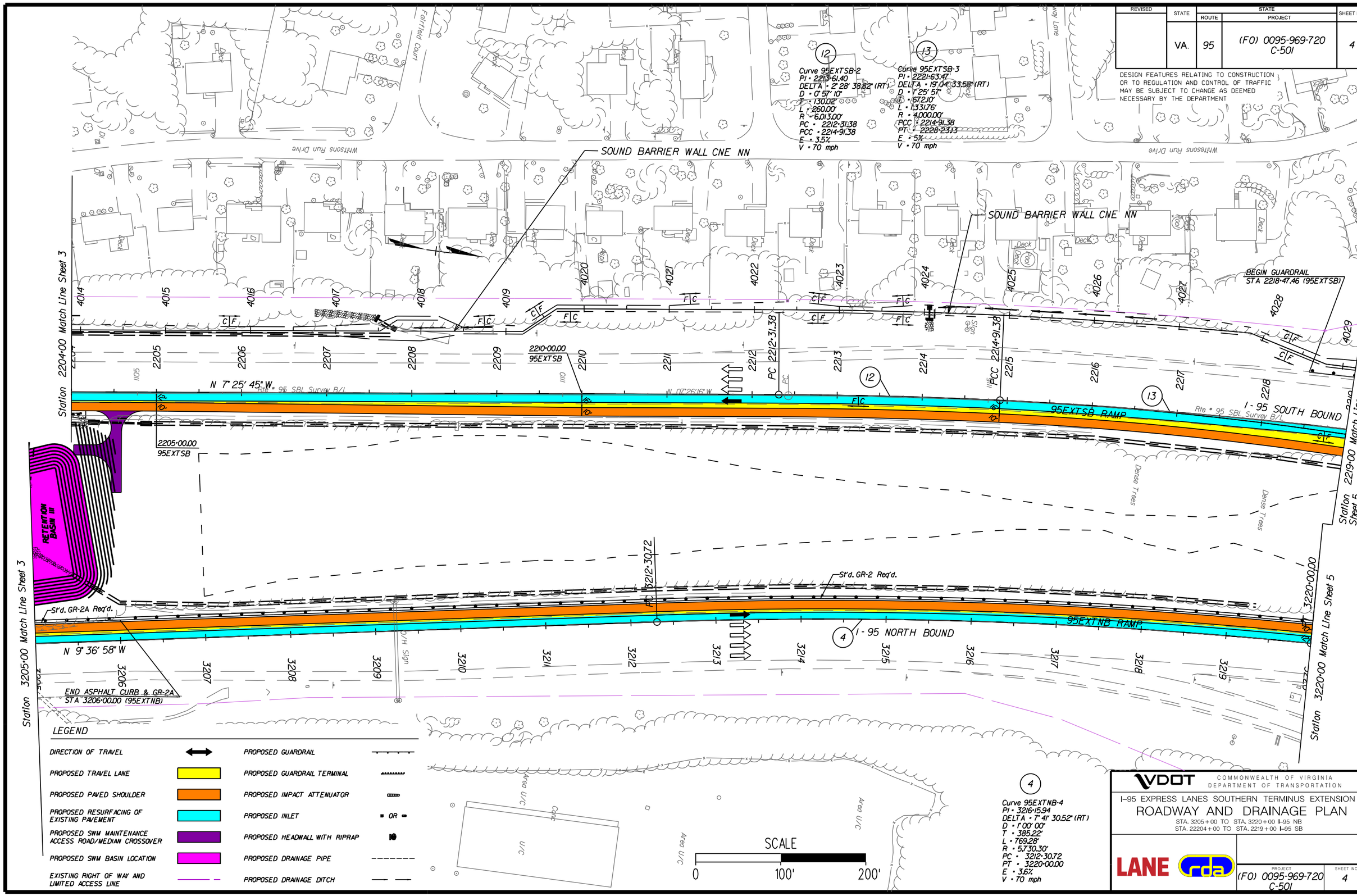
DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT



SHEET NO. 3a

REVISED	STATE	ROUTE	PROJECT	SHEET NO.
	VA.	95	(FO) 0095-969-720 C-501	4

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



VDOT COMMONWEALTH OF VIRGINIA DEPARTMENT OF TRANSPORTATION

I-95 EXPRESS LANES SOUTHERN TERMINUS EXTENSION

ROADWAY AND DRAINAGE PLAN

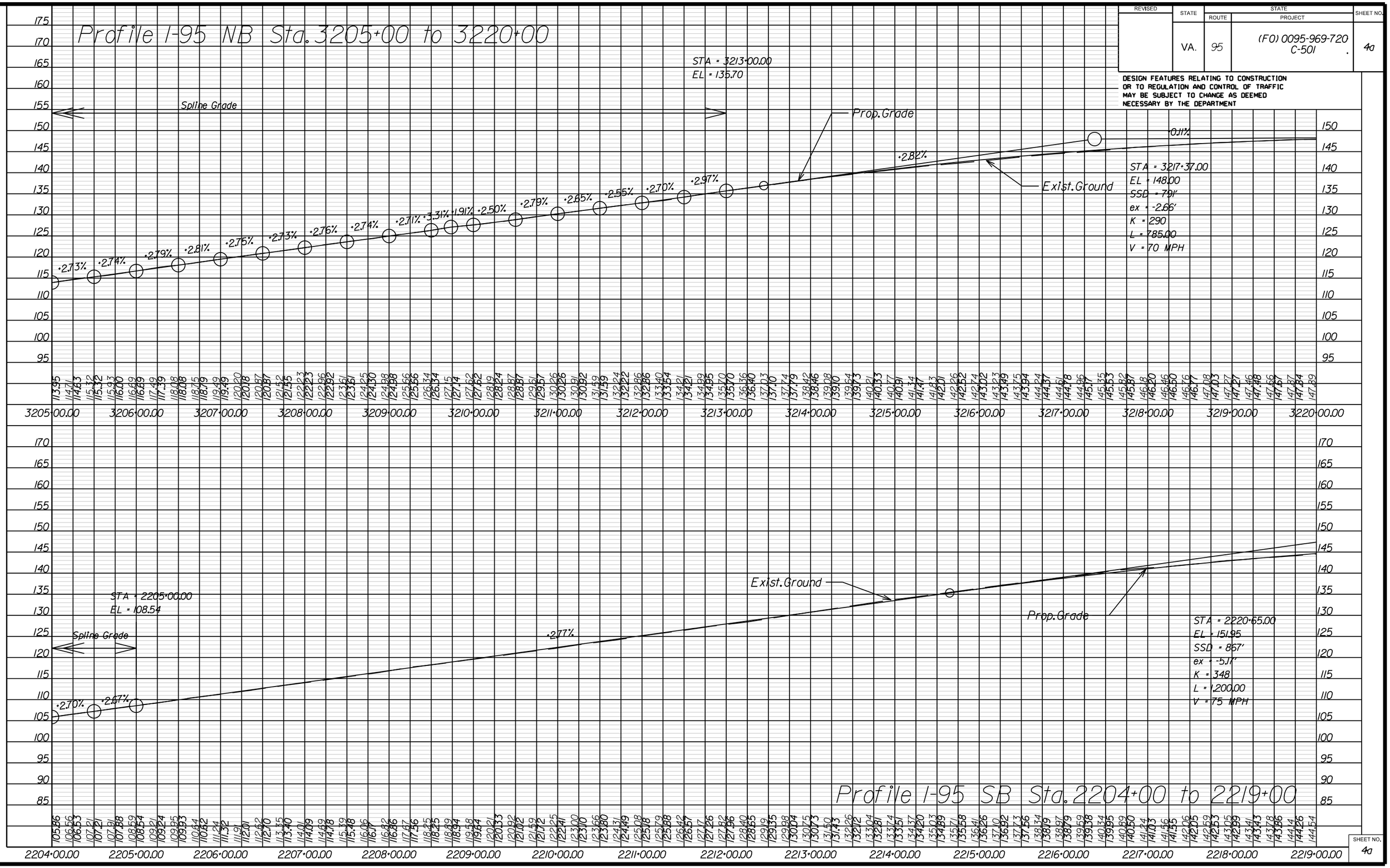
STA. 3205+00 TO STA. 3220+00 I-95 NB
STA. 22204+00 TO STA. 2219+00 I-95 SB

LANE rda

PROJECT	SHEET NO.
(FO) 0095-969-720 C-501	4

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.	95	(FO) 0095-969-720 C-501	4a

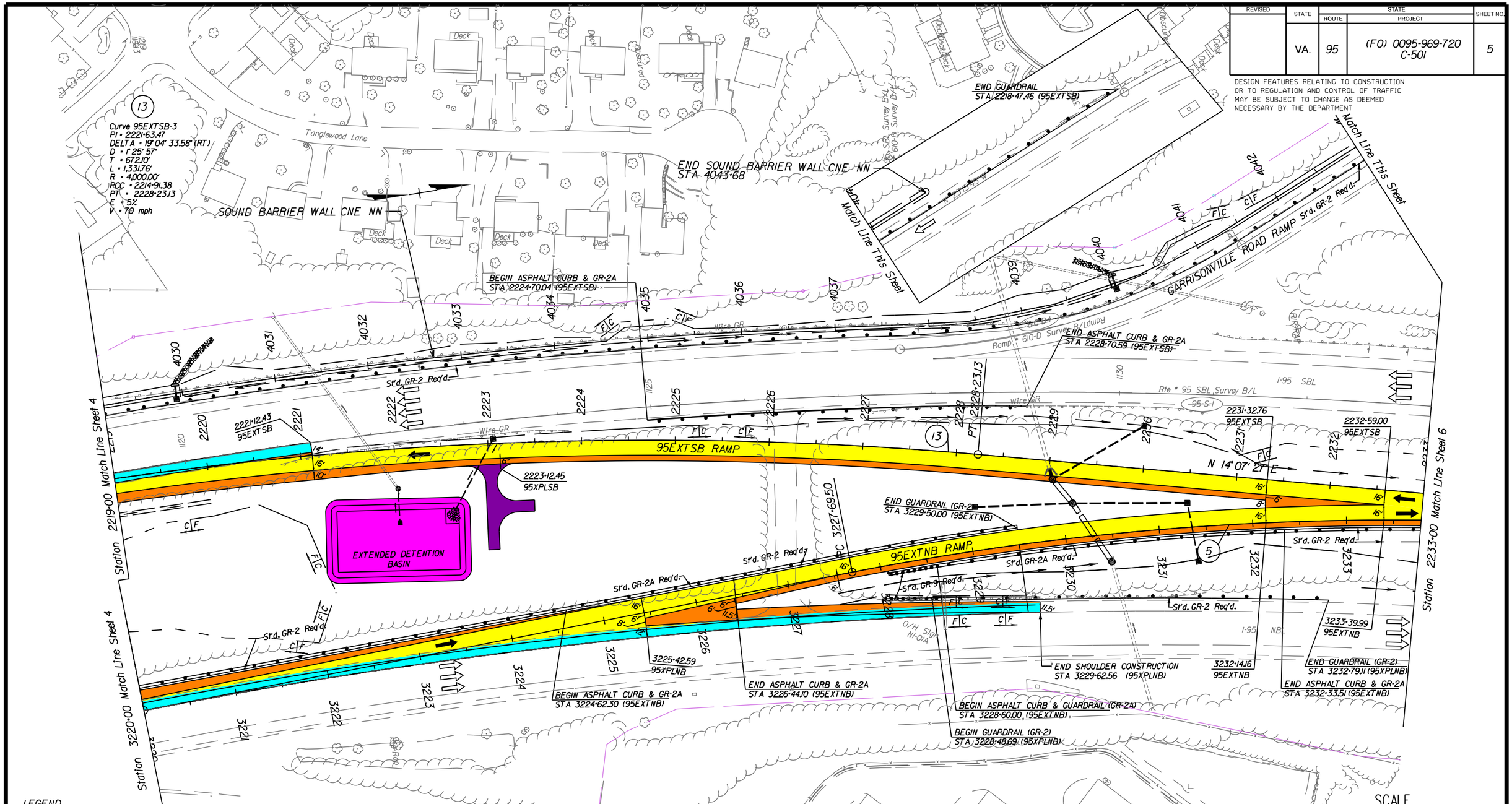
DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT



SHEET NO. 4a

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.	95	(FO) 0095-969-720 C-501	5

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



LEGEND

DIRECTION OF TRAVEL	PROPOSED GUARDRAIL
PROPOSED TRAVEL LANE	PROPOSED GUARDRAIL TERMINAL
PROPOSED PAVED SHOULDER	PROPOSED IMPACT ATTENUATOR
PROPOSED RESURFACING OF EXISTING PAVEMENT	PROPOSED INLET
PROPOSED SWM MAINTENANCE ACCESS ROAD/MEDIAN CROSSOVER	PROPOSED HEADWALL WITH RIPRAP
PROPOSED SWM BASIN LOCATION	PROPOSED DRAINAGE PIPE
EXISTING RIGHT OF WAY AND LIMITED ACCESS LINE	PROPOSED DRAINAGE DITCH

VDOT COMMONWEALTH OF VIRGINIA DEPARTMENT OF TRANSPORTATION

I-95 EXPRESS LANES SOUTHERN TERMINUS EXTENSION

ROADWAY AND DRAINAGE PLAN

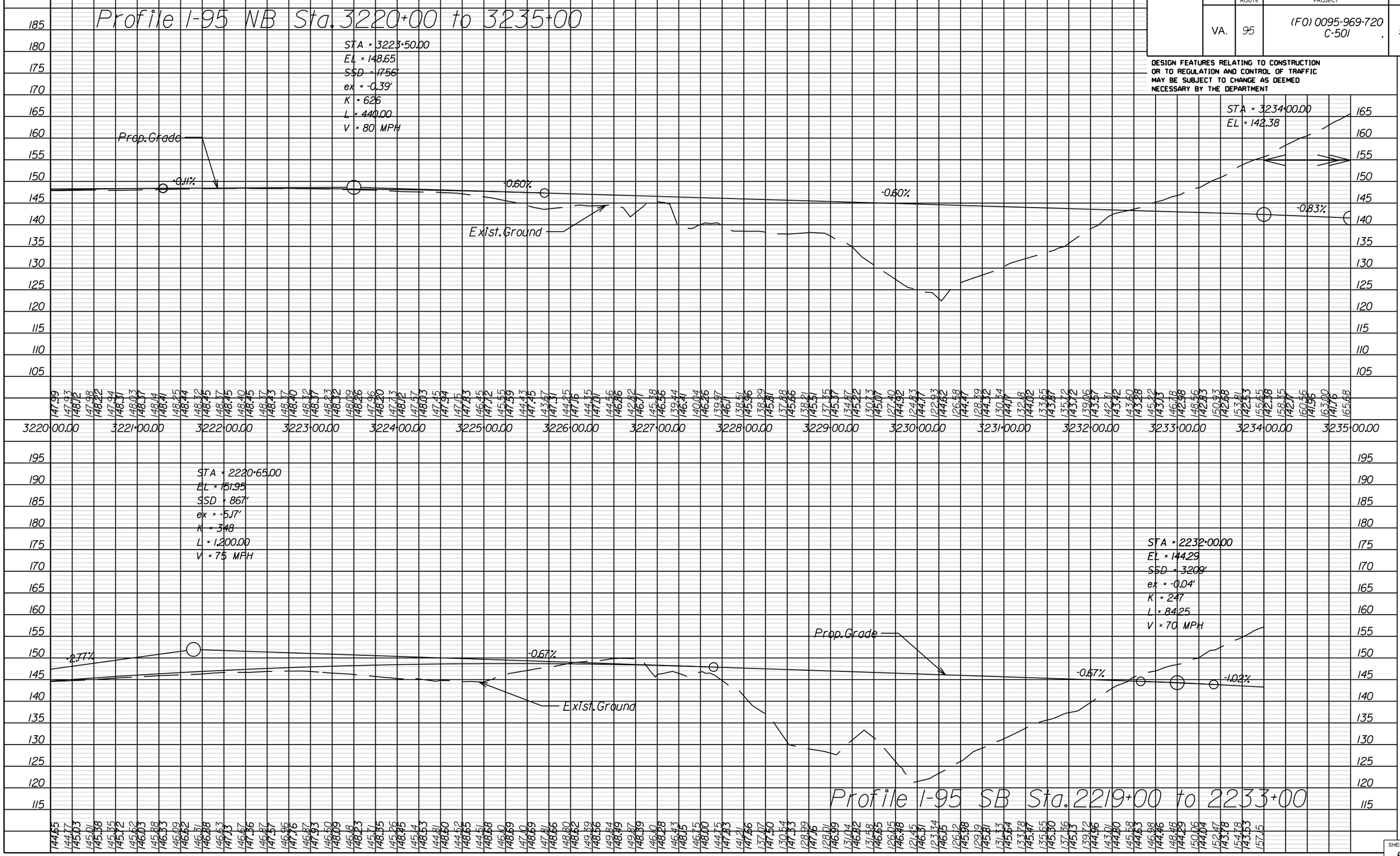
STA. 3220+00 TO STA. 3233+80 I-95 NB
STA. 2219+00 TO STA. 2233+00 I-95 SB

LANE rda

PROJECT	SHEET NO.
(FO) 0095-969-720 C-501	5

REVISED	STATE	ROUTE	PROJECT	SHEET NO.
	VA.	95	(FO) 0095-969-720 C-501	5a

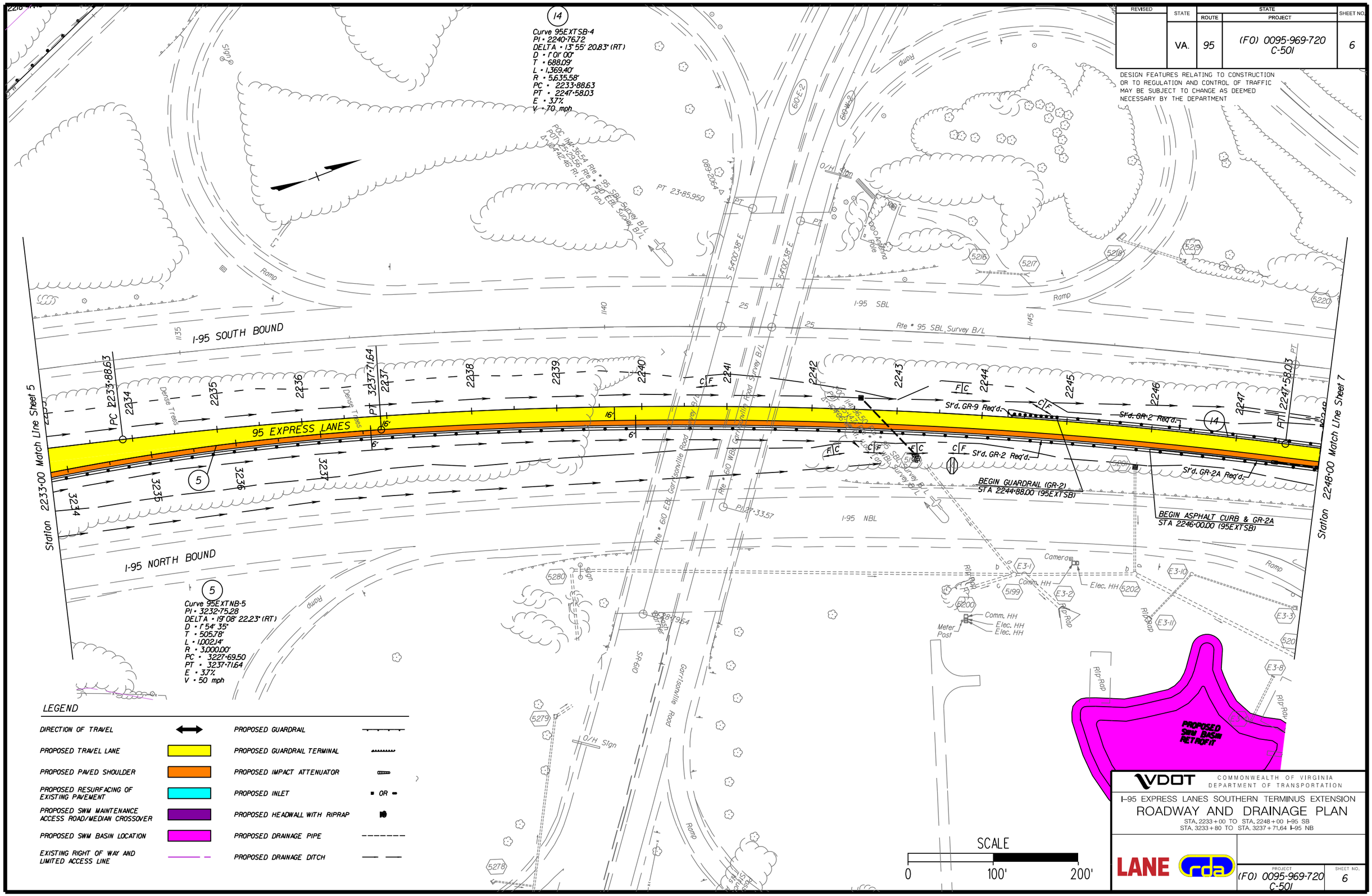
DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT



SHEET NO. 5a

REVISED	STATE	ROUTE	PROJECT	SHEET NO.
	VA.	95	(FO) 0095-969-720 C-501	6

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



VDOT COMMONWEALTH OF VIRGINIA DEPARTMENT OF TRANSPORTATION

I-95 EXPRESS LANES SOUTHERN TERMINUS EXTENSION

ROADWAY AND DRAINAGE PLAN

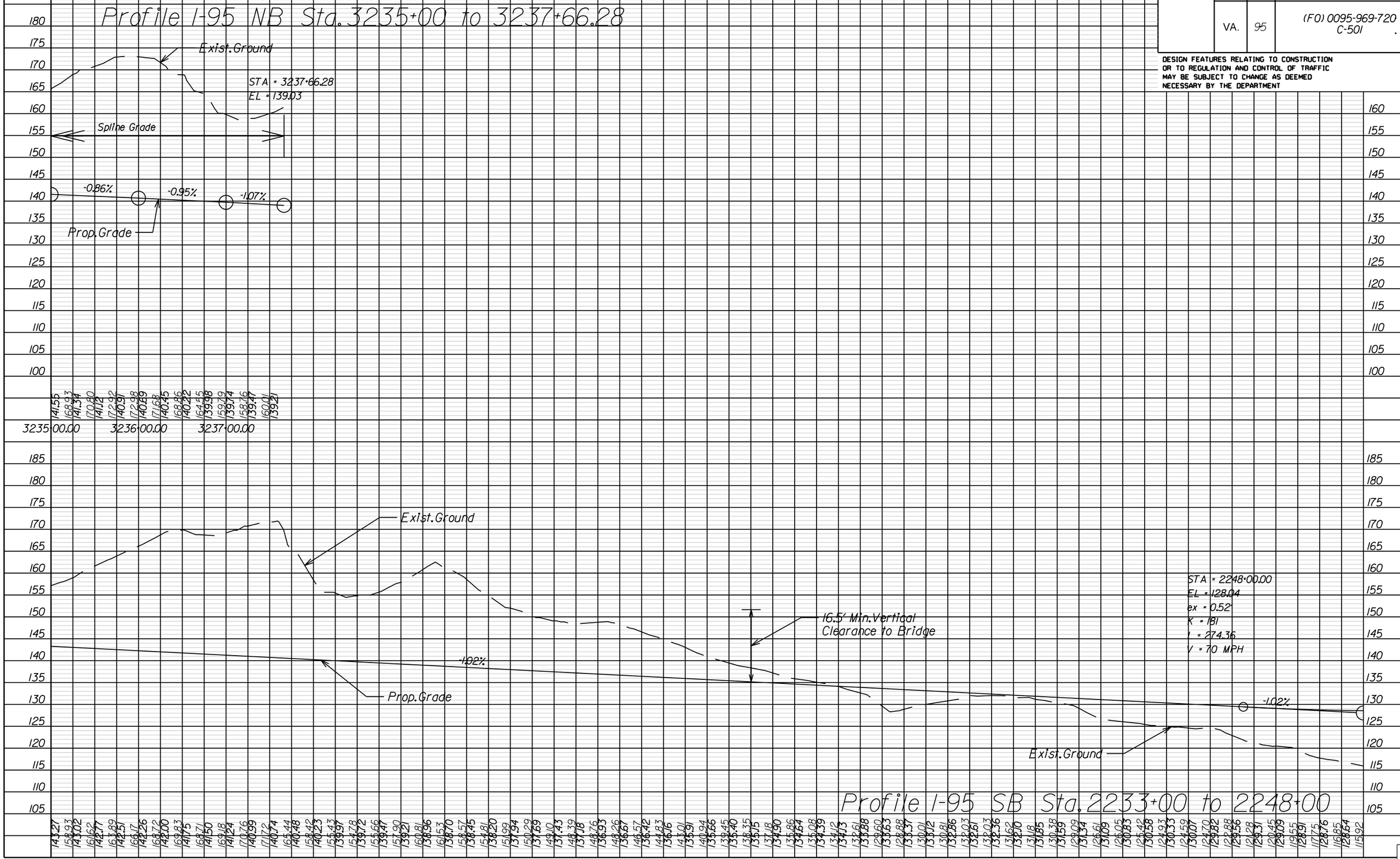
STA. 2233+00 TO STA. 2248+00 I-95 SB
STA. 3233+80 TO STA. 3237+71.64 I-95 NB

LANE rda

PROJECT	SHEET NO.
(FO) 0095-969-720 C-501	6

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.	95	(FO) 0095-969-720 C-501	6a

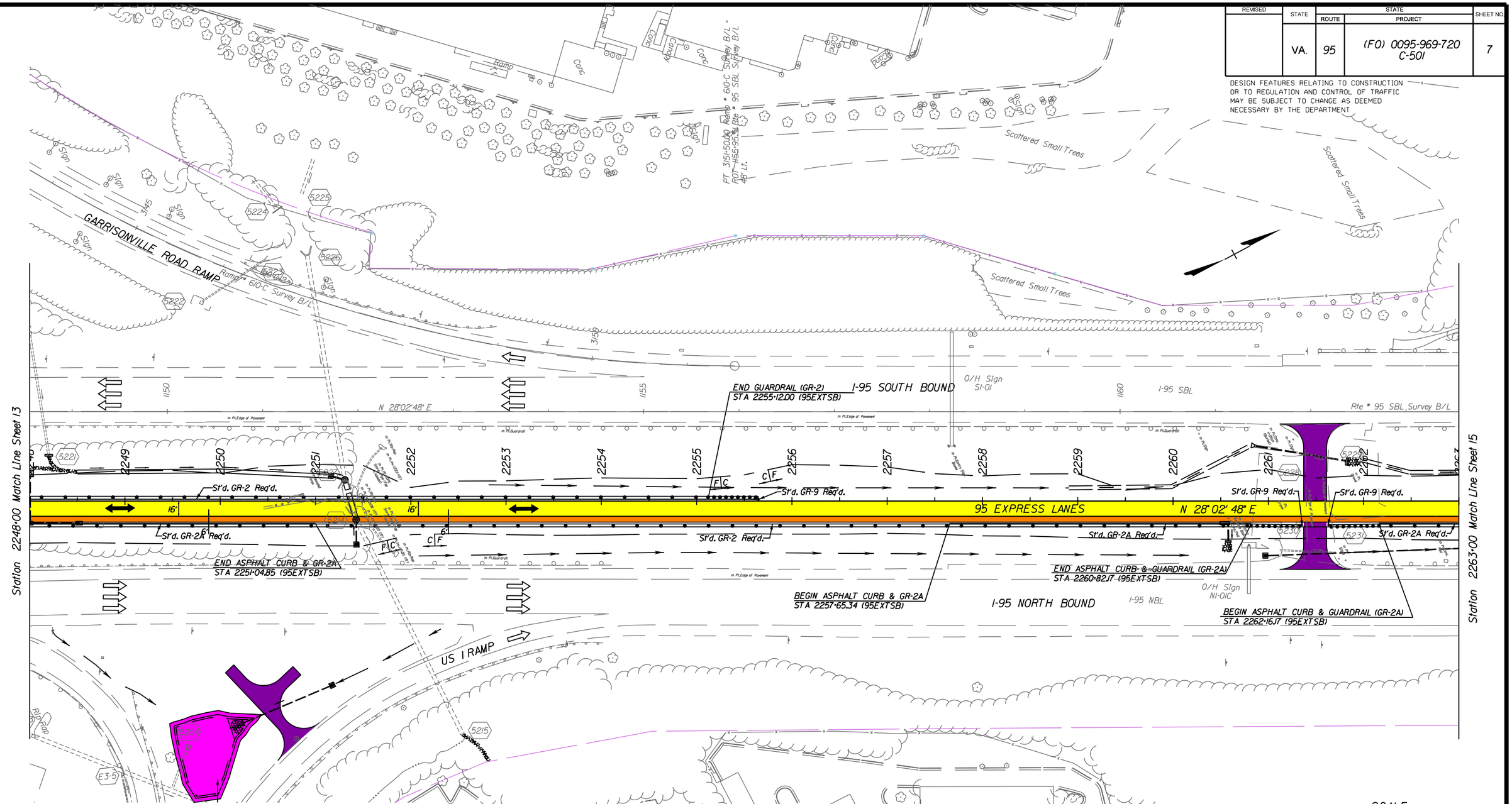
DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT



SHEET NO. 6a

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.	95	(FO) 0095-969-720 C-501	7

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



LEGEND

DIRECTION OF TRAVEL	⟷	PROPOSED GUARDRAIL	
PROPOSED TRAVEL LANE		PROPOSED GUARDRAIL TERMINAL	
PROPOSED PAVED SHOULDER		PROPOSED IMPACT ATTENUATOR	
PROPOSED RESURFACING OF EXISTING PAVEMENT		PROPOSED INLET	▪ OR ▬
PROPOSED SWM MAINTENANCE ACCESS ROAD/MEDIAN CROSSOVER		PROPOSED HEADWALL WITH RIPRAP	
PROPOSED SWM BASIN LOCATION		PROPOSED DRAINAGE PIPE	
EXISTING RIGHT OF WAY AND LIMITED ACCESS LINE		PROPOSED DRAINAGE DITCH	

SCALE

0 100' 200'

VDOT COMMONWEALTH OF VIRGINIA DEPARTMENT OF TRANSPORTATION

I-95 EXPRESS LANES SOUTHERN TERMINUS EXTENSION

ROADWAY AND DRAINAGE PLAN

STA. 2248+00 TO STA. 2263+00 I-95 SB

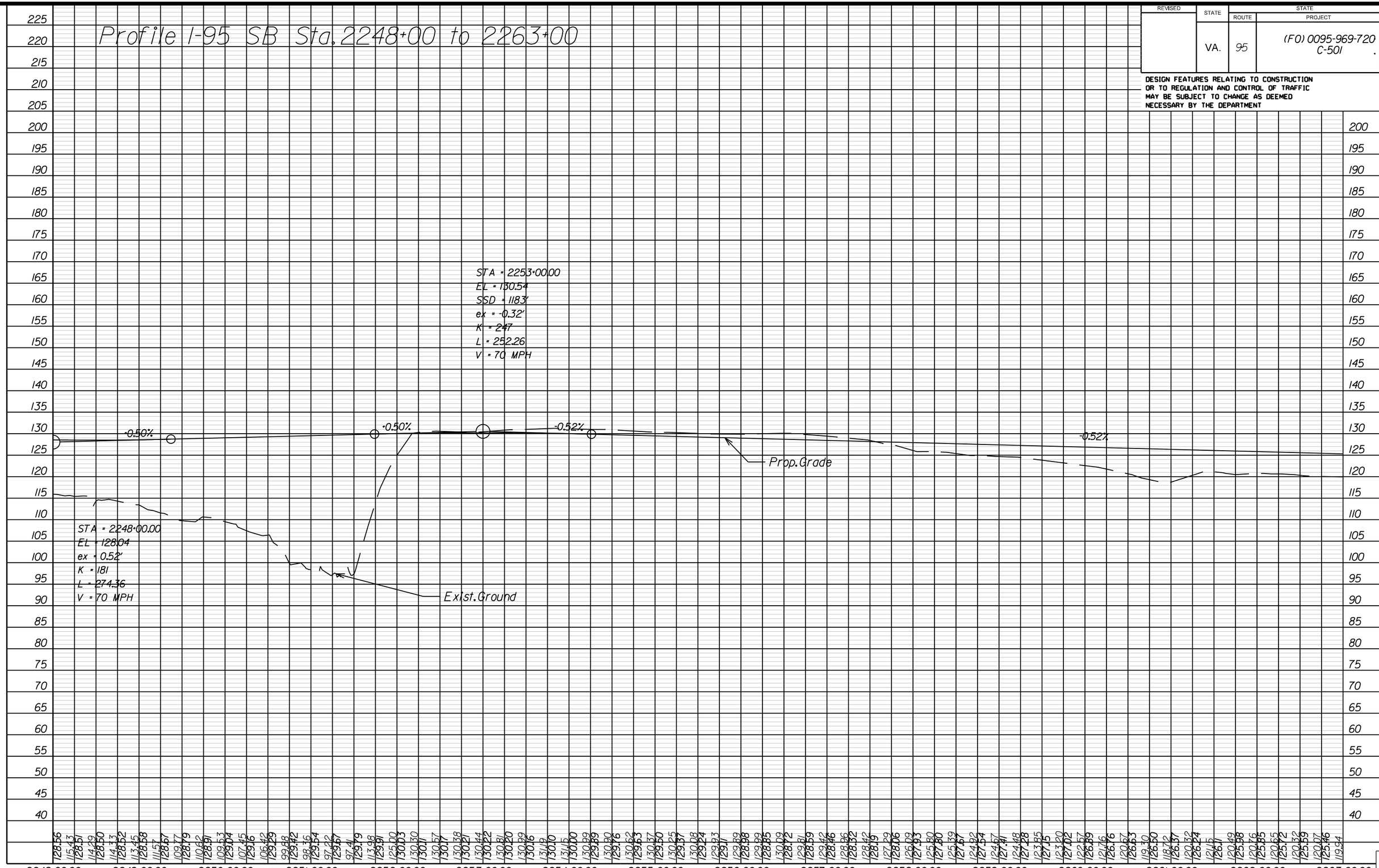
LANE rda

PROJECT	SHEET NO.
(FO) 0095-969-720 C-501	7

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.	95	(FO) 0095-969-720 C-501 .	7a

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

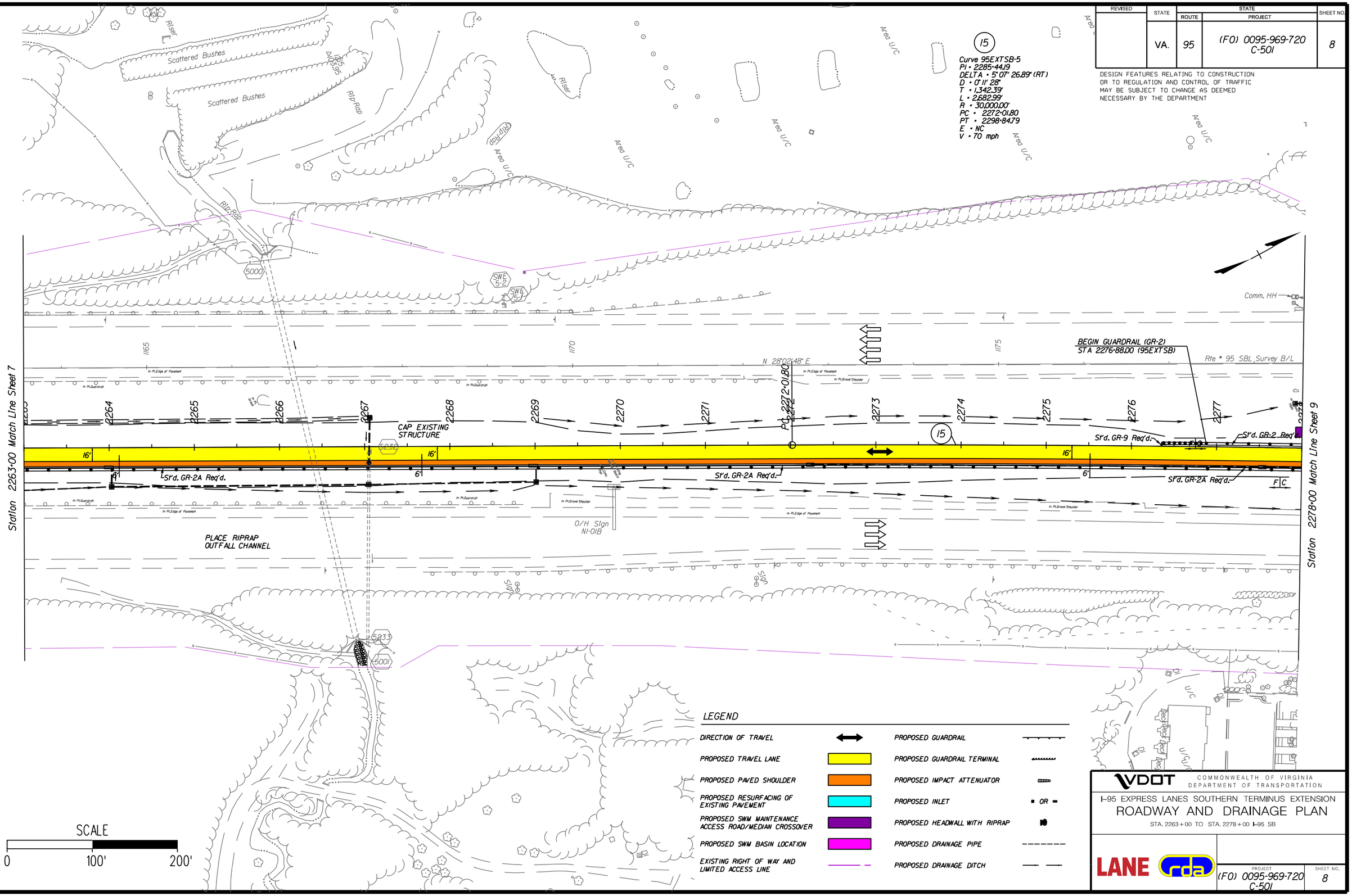
Profile I-95 SB Sta. 2248+00 to 2263+00



SHEET NO. 7a

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.	95	(FO) 0095-969-720 C-501	8

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



VDOT COMMONWEALTH OF VIRGINIA DEPARTMENT OF TRANSPORTATION

I-95 EXPRESS LANES SOUTHERN TERMINUS EXTENSION

ROADWAY AND DRAINAGE PLAN

STA. 2263+00 TO STA. 2278+00 I-95 SB

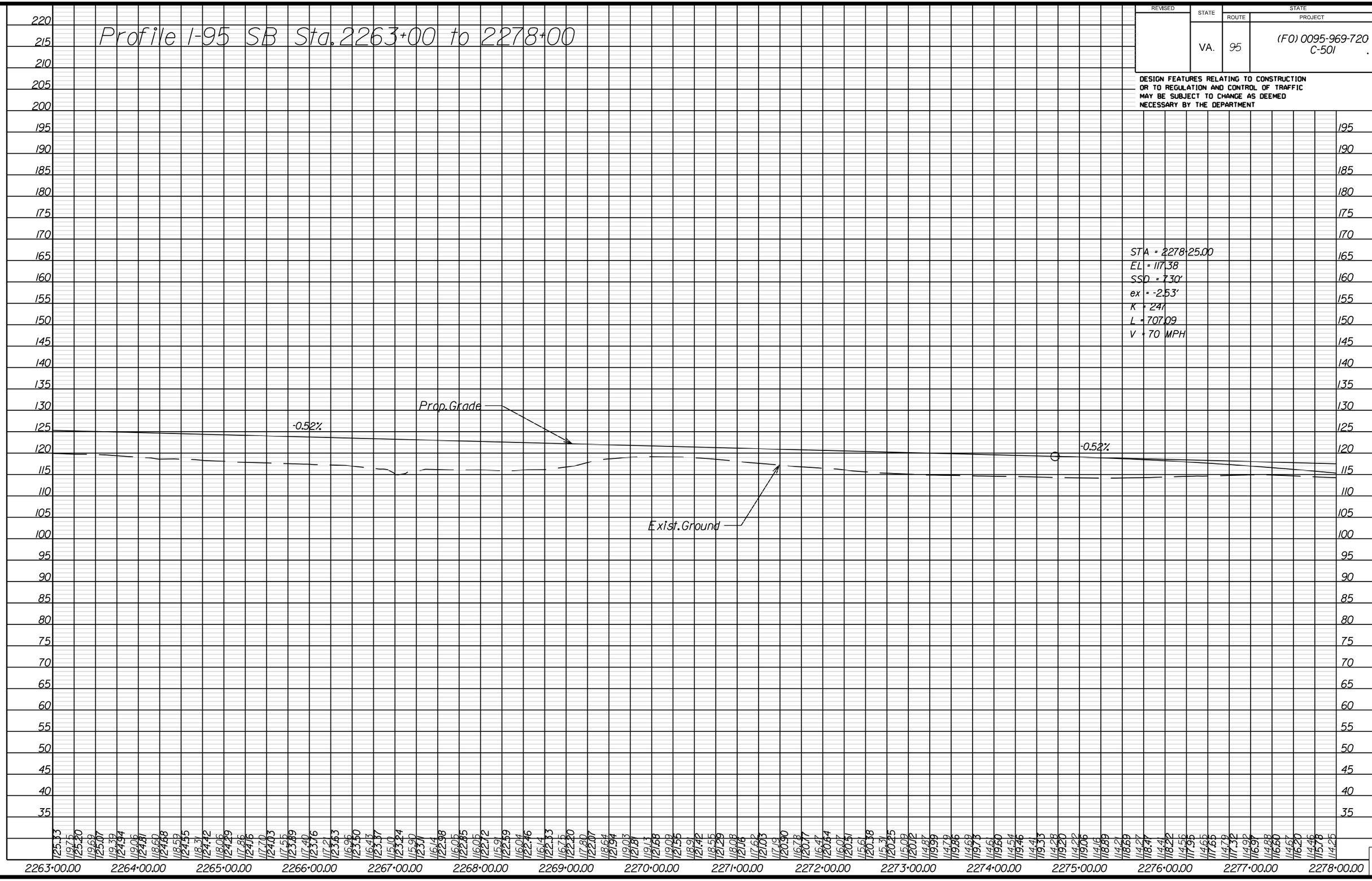
LANE rda

PROJECT	SHEET NO.
(FO) 0095-969-720 C-501	8

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.	95	(FO) 0095-969-720 C-501 .	8a

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

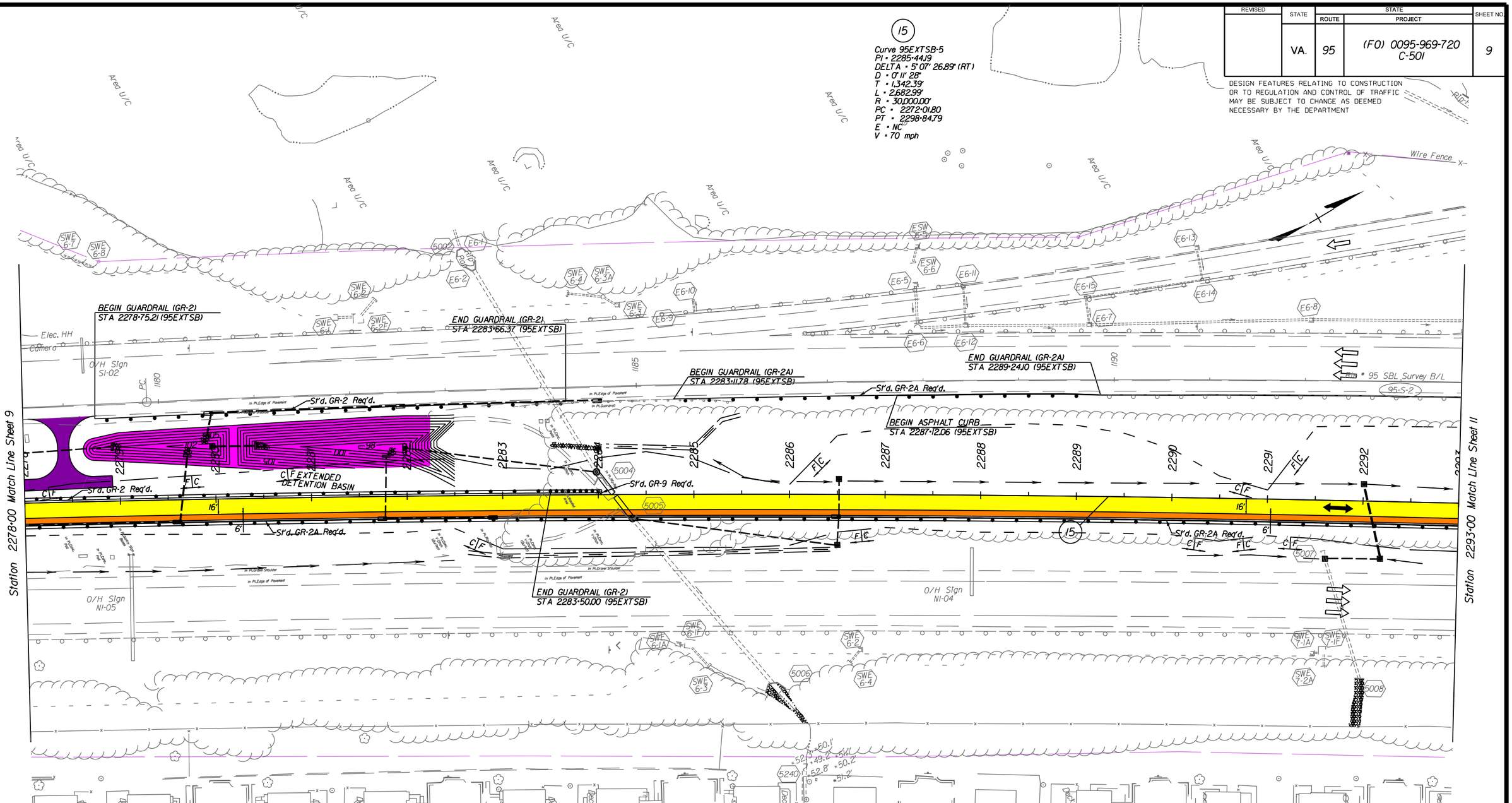
Profile I-95 SB Sta. 2263+00 to 2278+00



SHEET NO. 8a

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.	95	(FO) 0095-969-720 C-501	9

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



LEGEND

DIRECTION OF TRAVEL	PROPOSED GUARDRAIL
PROPOSED TRAVEL LANE	PROPOSED GUARDRAIL TERMINAL
PROPOSED PAVED SHOULDER	PROPOSED IMPACT ATTENUATOR
PROPOSED RESURFACING OF EXISTING PAVEMENT	PROPOSED INLET
PROPOSED SWM MAINTENANCE ACCESS ROAD/MEDIAN CROSSOVER	PROPOSED HEADWALL WITH RIPRAP
PROPOSED SWM BASIN LOCATION	PROPOSED DRAINAGE PIPE
EXISTING RIGHT OF WAY AND LIMITED ACCESS LINE	PROPOSED DRAINAGE DITCH

SCALE

0 100' 200'

VDOT COMMONWEALTH OF VIRGINIA DEPARTMENT OF TRANSPORTATION

I-95 EXPRESS LANES SOUTHERN TERMINUS EXTENSION

ROADWAY AND DRAINAGE PLAN

STA. 2278+00 TO STA. 2293+00 I-95 SB

LANE rda

PROJECT	SHEET NO.
(FO) 0095-969-720 C-501	9

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.	95	(FO) 0095-969-720 C-501 .	9a

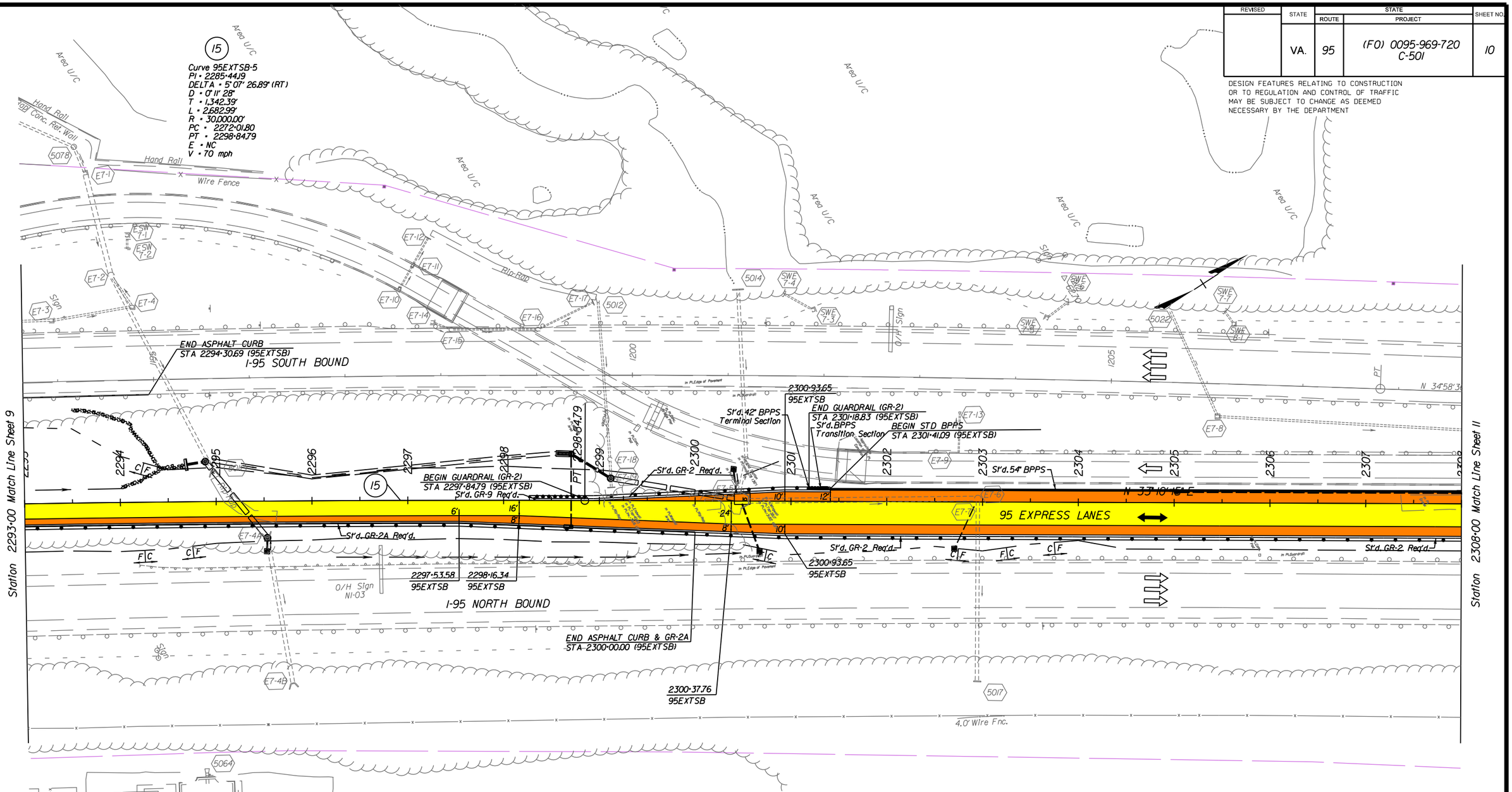
DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT

Profile I-95 SB Sta. 2278+00 to 2293+00

SHEET NO. 9a

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.	95	(FO) 0095-969-720 C-501	10

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



LEGEND

DIRECTION OF TRAVEL	⟷	PROPOSED GUARDRAIL	
PROPOSED TRAVEL LANE		PROPOSED GUARDRAIL TERMINAL	
PROPOSED PAVED SHOULDER		PROPOSED IMPACT ATTENUATOR	
PROPOSED RESURFACING OF EXISTING PAVEMENT		PROPOSED INLET	▪ OR ▬
PROPOSED SWM MAINTENANCE ACCESS ROAD/MEDIAN CROSSOVER		PROPOSED HEADWALL WITH RIPRAP	
PROPOSED SWM BASIN LOCATION		PROPOSED DRAINAGE PIPE	
EXISTING RIGHT OF WAY AND LIMITED ACCESS LINE		PROPOSED DRAINAGE DITCH	

SCALE

0 100' 200'

VDOT COMMONWEALTH OF VIRGINIA DEPARTMENT OF TRANSPORTATION

I-95 EXPRESS LANES SOUTHERN TERMINUS EXTENSION

ROADWAY AND DRAINAGE PLAN

STA. 2293+00 TO STA. 2308+00 I-95 SB

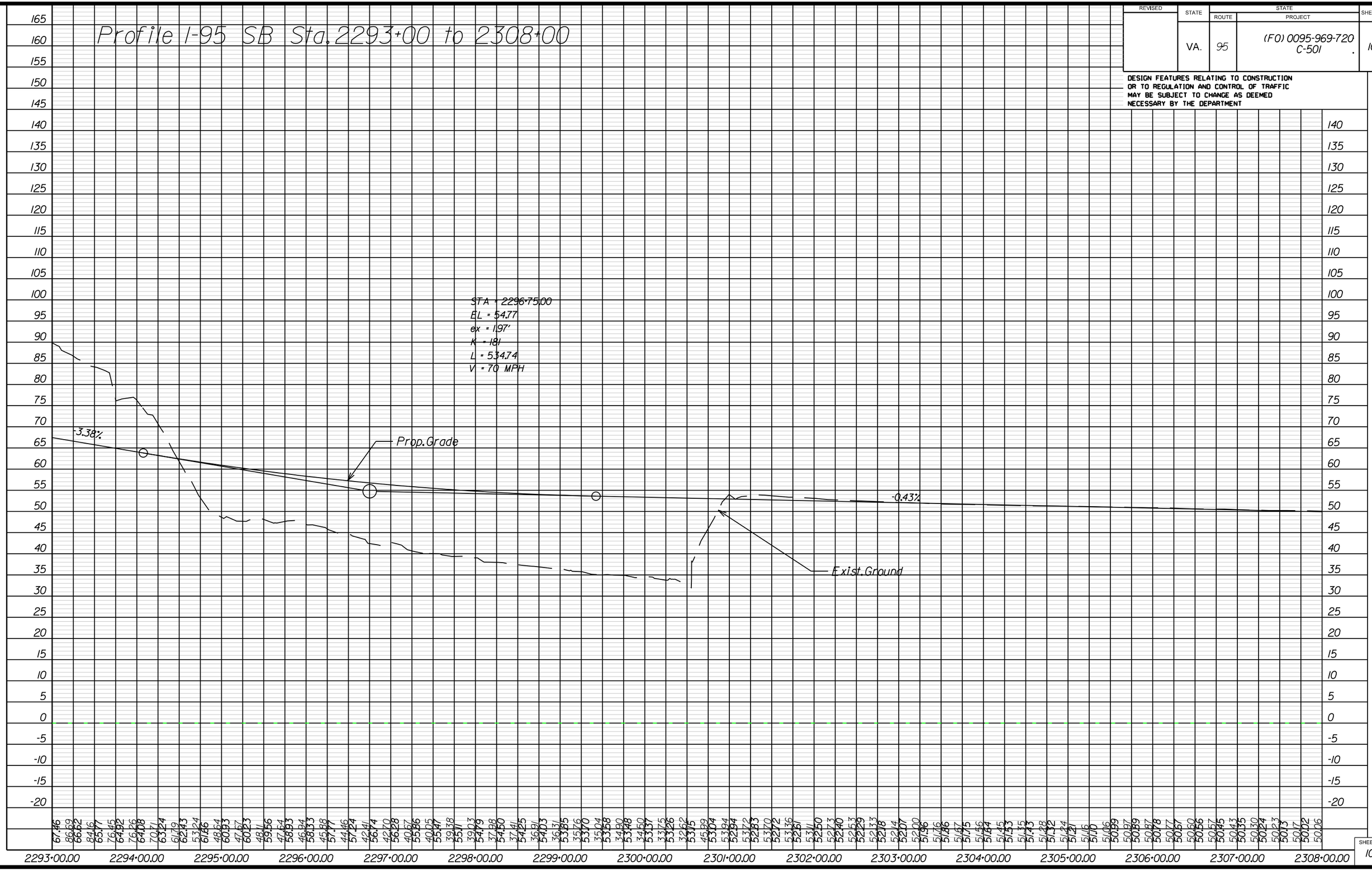
LANE rda

PROJECT	SHEET NO.
(FO) 0095-969-720 C-501	10

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.	95	(FO) 0095-969-720 C-501 .	10a

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

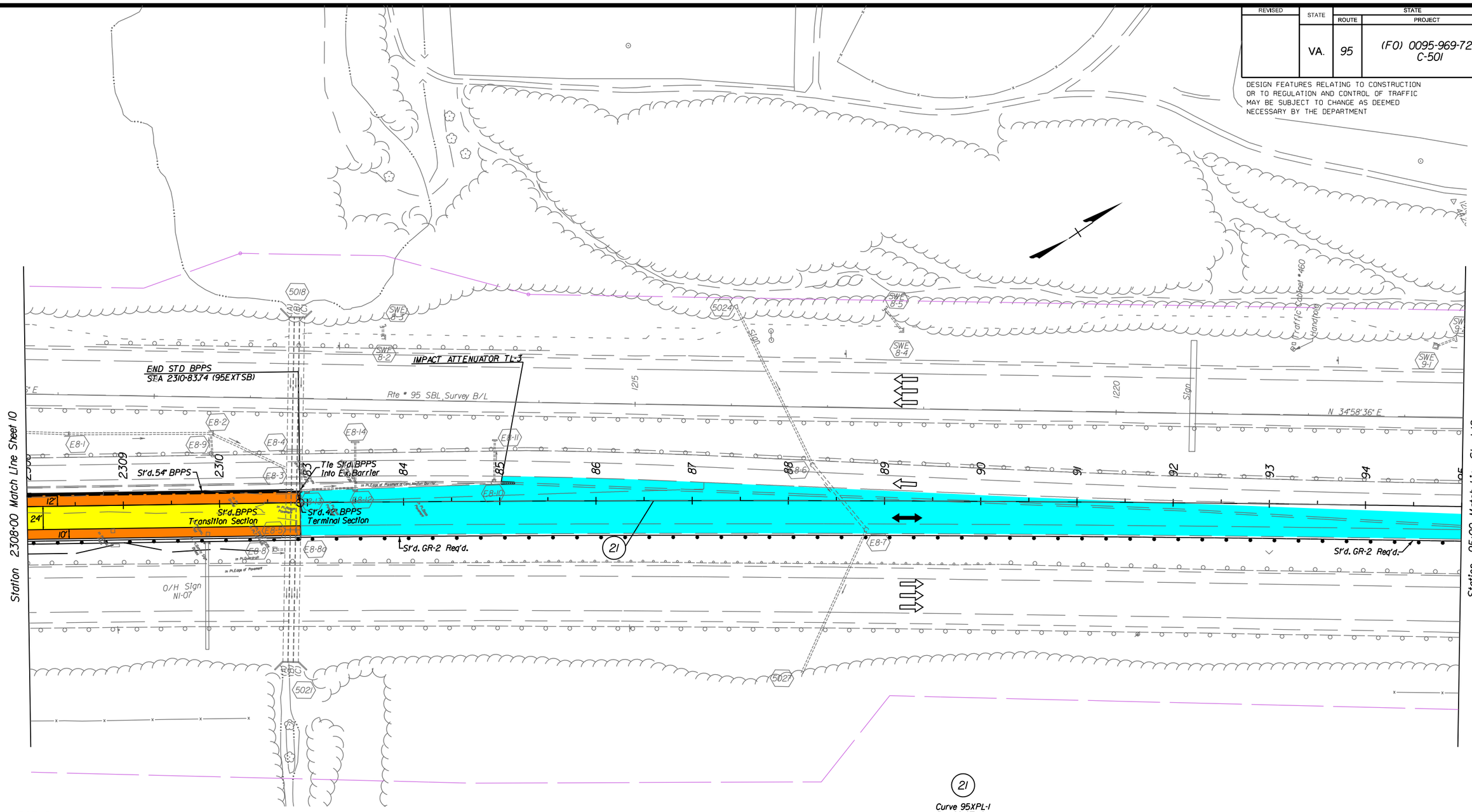
Profile I-95 SB Sta. 2293+00 to 2308+00



SHEET NO. 10a

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.	95	(FO) 0095-969-720 C-501	11

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

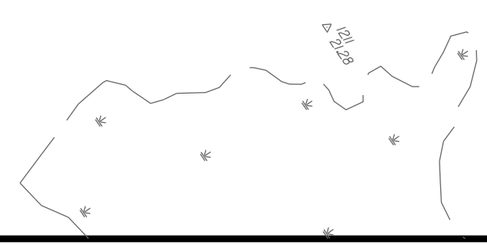


LEGEND

DIRECTION OF TRAVEL		PROPOSED GUARDRAIL	
PROPOSED TRAVEL LANE		PROPOSED GUARDRAIL TERMINAL	
PROPOSED PAVED SHOULDER		PROPOSED IMPACT ATTENUATOR	
PROPOSED RESURFACING OF EXISTING PAVEMENT		PROPOSED INLET	OR
PROPOSED SWM MAINTENANCE ACCESS ROAD/MEDIAN CROSSOVER		PROPOSED HEADWALL WITH RIPRAP	
PROPOSED SWM BASIN LOCATION		PROPOSED DRAINAGE PIPE	
EXISTING RIGHT OF WAY AND LIMITED ACCESS LINE		PROPOSED DRAINAGE DITCH	

21

Curve 95XPL-1
PI = 89+07.46
DELTA = 1° 29' 57.93" (RT)
D = 0° 07' 19"
T = 615.03'
L = 1,229.99'
R = 47,000.00'
PC = 82+92.43
PT = 95+22.42
E = NC
V = 70 mph



SCALE

0 100' 200'

VDOT COMMONWEALTH OF VIRGINIA DEPARTMENT OF TRANSPORTATION

I-95 EXPRESS LANES SOUTHERN TERMINUS EXTENSION

ROADWAY AND DRAINAGE PLAN

STA. 2308+00 TO STA. 95+00 I-95 XPL

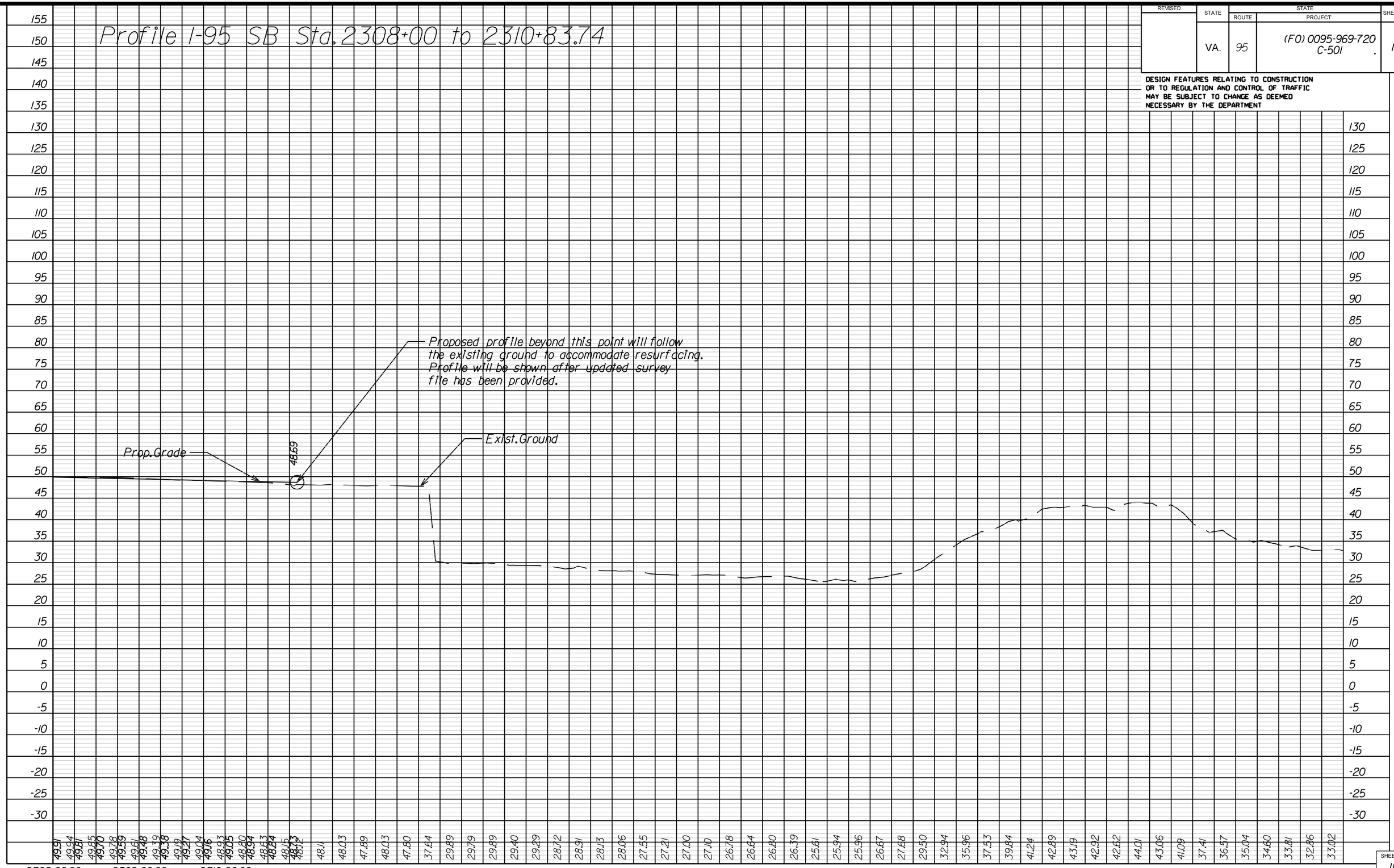
LANE

PROJECT	SHEET NO.
(FO) 0095-969-720 C-501	11

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.	95	(FO) 0095-969-720 C-501 .	11a

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

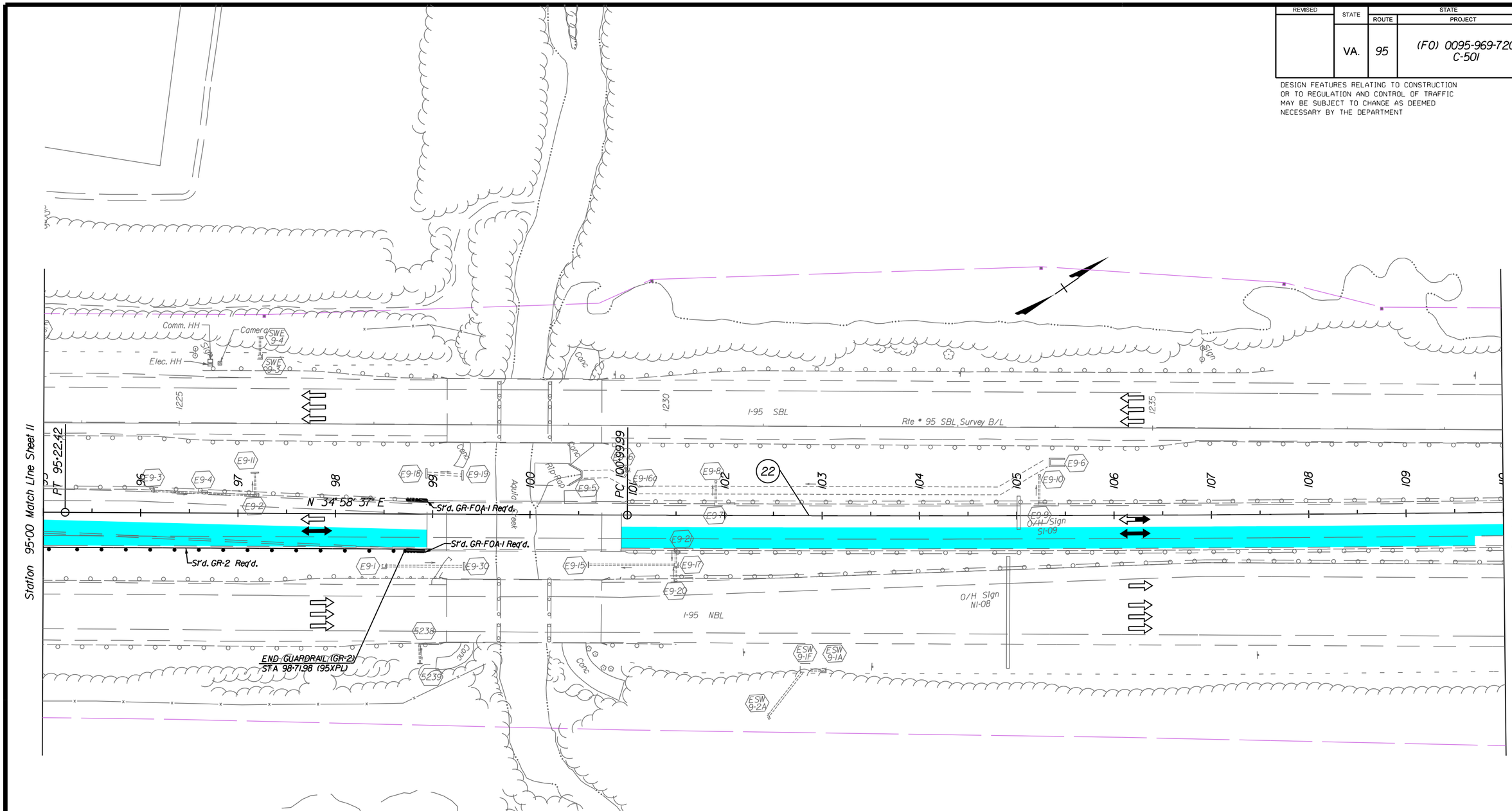
Profile I-95 SB Sta. 2308+00 to 2310+83.74



SHEET NO. 11a

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.	95	(FO) 0095-969-720 C-501	12

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



LEGEND

DIRECTION OF TRAVEL	⟷	PROPOSED GUARDRAIL	
PROPOSED TRAVEL LANE		PROPOSED GUARDRAIL TERMINAL	
PROPOSED PAVED SHOULDER		PROPOSED IMPACT ATTENUATOR	
PROPOSED RESURFACING OF EXISTING PAVEMENT		PROPOSED INLET	▪ OR ▬
PROPOSED SWM MAINTENANCE ACCESS ROAD/MEDIAN CROSSOVER		PROPOSED HEADWALL WITH RIPRAP	
PROPOSED SWM BASIN LOCATION		PROPOSED DRAINAGE PIPE	
EXISTING RIGHT OF WAY AND LIMITED ACCESS LINE		PROPOSED DRAINAGE DITCH	

22

Curve 95XPL-2
PI = 106+29.16
DELTA = 1° 04' 58.10" (LT)
D = 0° 06' 08"
T = 529.17'
L = 1,058.32'
R = 56,000.00'
PC = 100+99.99
PRC = 111+58.30
E = NC
V = 70 mph

SCALE

0 100' 200'

VDOT COMMONWEALTH OF VIRGINIA DEPARTMENT OF TRANSPORTATION

I-95 EXPRESS LANES SOUTHERN TERMINUS EXTENSION

ROADWAY AND DRAINAGE PLAN

STA. 95+00 TO STA. 110+00 I-95 XPL

LANE rda

PROJECT	SHEET NO.
(FO) 0095-969-720 C-501	12

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.	95	(F0) 0095-969-720 C-501	13

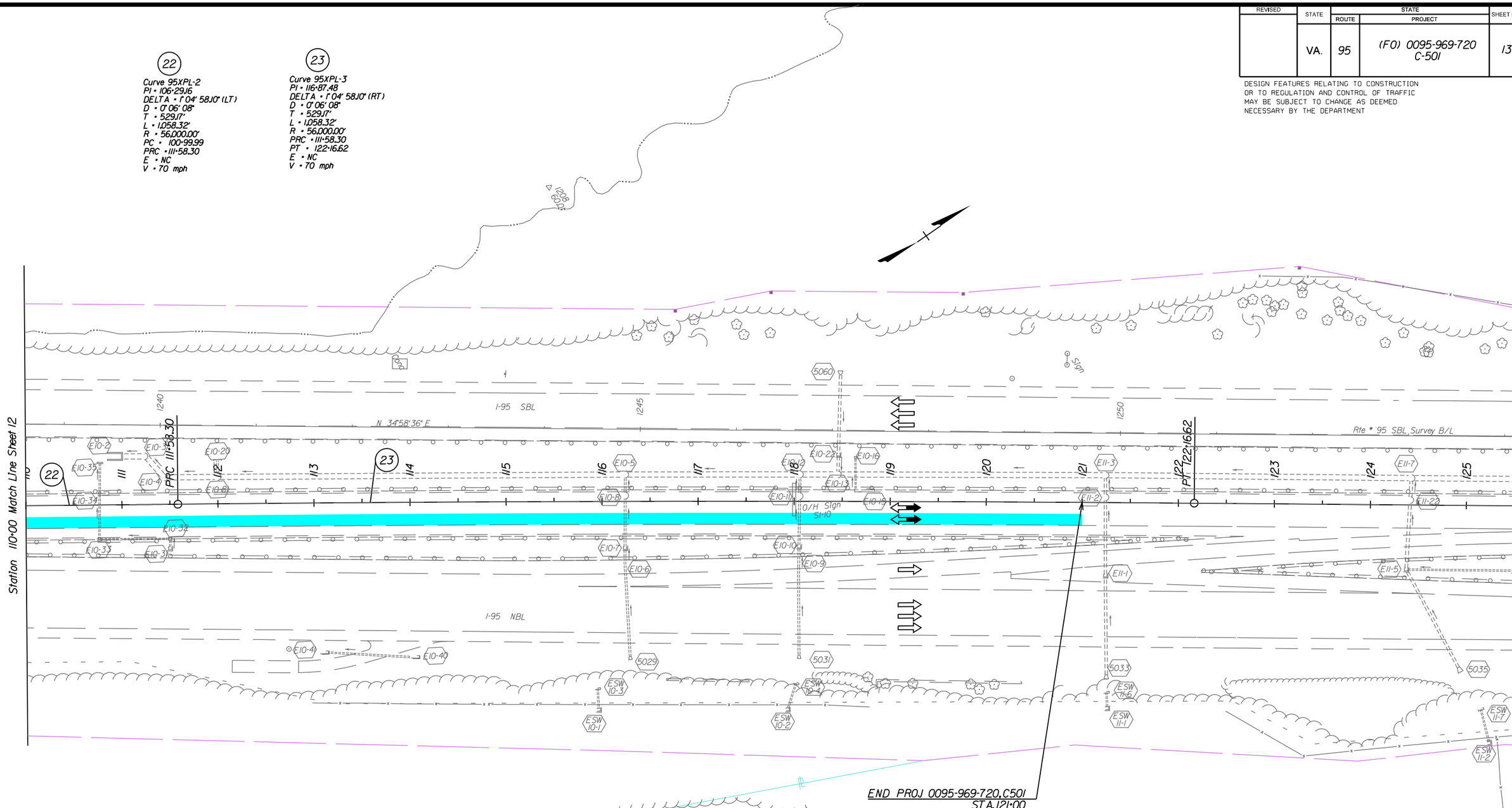
DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT

22

Curve 95XPL-2
PI = 106+29.16
DELTA = 1° 04' 58.10" (LT)
D = 0° 06' 08"
T = 529.17'
L = 1,058.32'
R = 56,000.00'
PC = 100+99.99
PRC = 111+58.30
E = NC
V = 70 mph

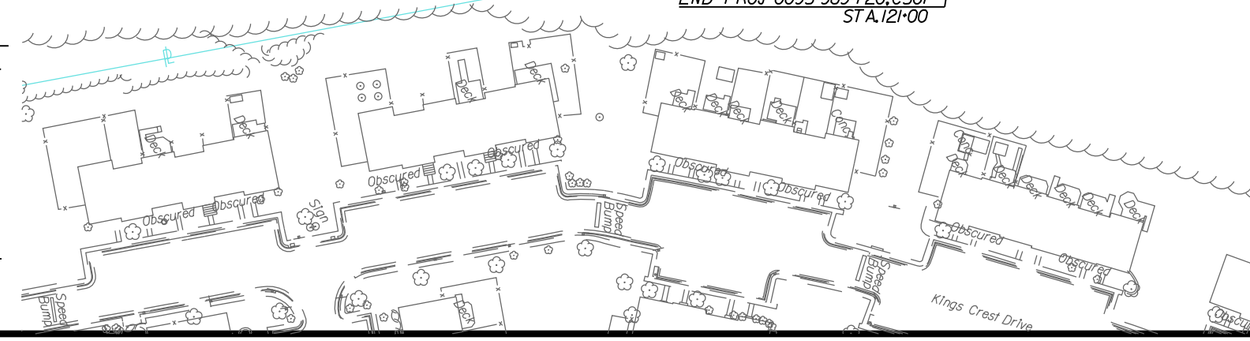
23

Curve 95XPL-3
PI = 116+87.48
DELTA = 1° 04' 58.10" (RT)
D = 0° 06' 08"
T = 529.17'
L = 1,058.32'
R = 56,000.00'
PRC = 111+58.30
PT = 122+16.62
E = NC
V = 70 mph



LEGEND

DIRECTION OF TRAVEL		PROPOSED GUARDRAIL	
PROPOSED TRAVEL LANE		PROPOSED GUARDRAIL TERMINAL	
PROPOSED PAVED SHOULDER		PROPOSED IMPACT ATTENUATOR	
PROPOSED RESURFACING OF EXISTING PAVEMENT		PROPOSED INLET	OR
PROPOSED SWM MAINTENANCE ACCESS ROAD/MEDIAN CROSSOVER		PROPOSED HEADWALL WITH RIPRAP	
PROPOSED SWM BASIN LOCATION		PROPOSED DRAINAGE PIPE	
EXISTING RIGHT OF WAY AND LIMITED ACCESS LINE		PROPOSED DRAINAGE DITCH	



SCALE
0 100' 200'

VDOT COMMONWEALTH OF VIRGINIA DEPARTMENT OF TRANSPORTATION

I-95 EXPRESS LANES SOUTHERN TERMINUS EXTENSION

ROADWAY AND DRAINAGE PLAN

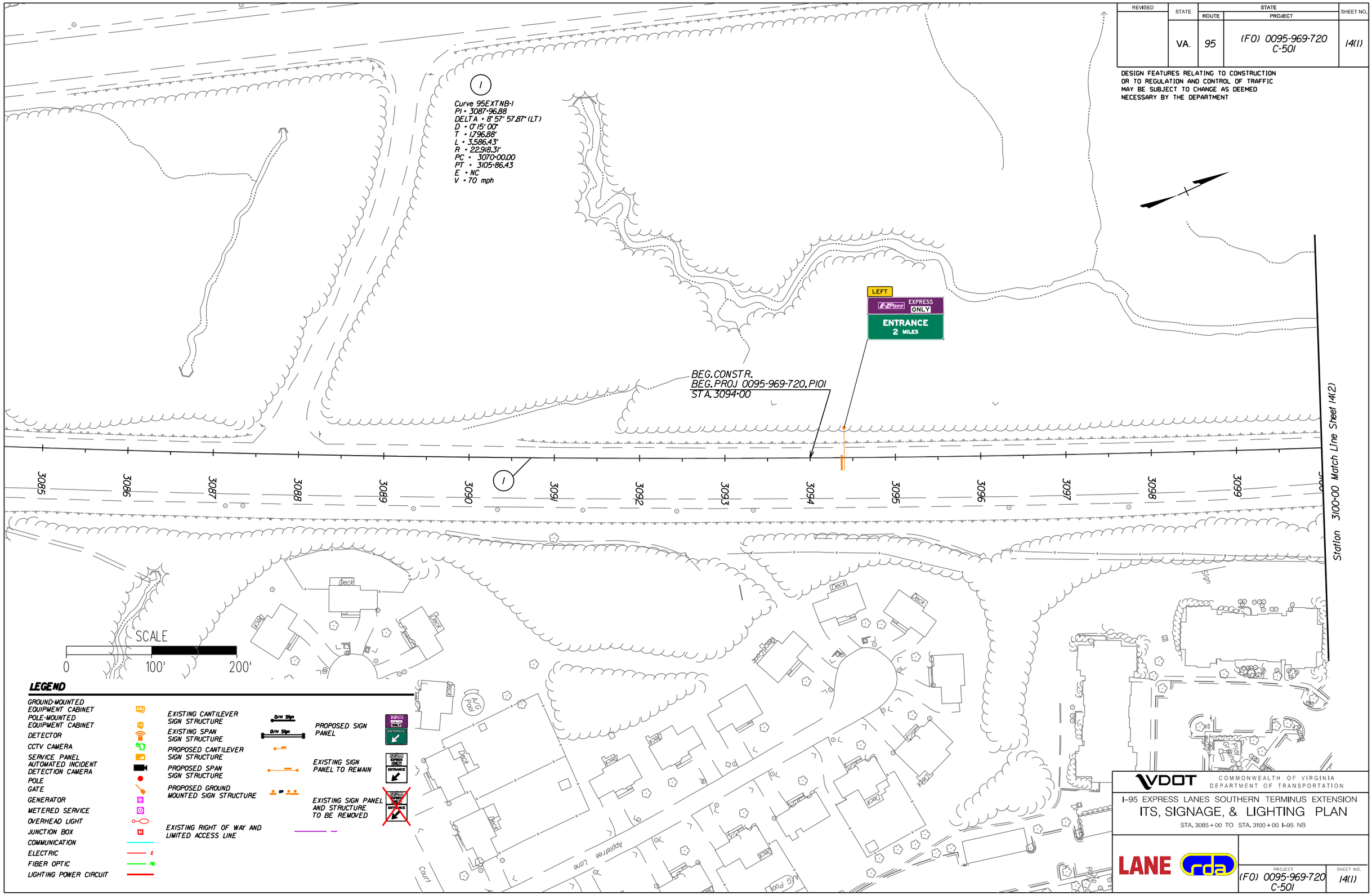
STA. 110+00 TO STA. 125+00 I-95 XPL

LANE rda

PROJECT	SHEET NO.
(F0) 0095-969-720 C-501	13

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.	95	(F0) 0095-969-720 C-501	14(1)

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



VDOT COMMONWEALTH OF VIRGINIA DEPARTMENT OF TRANSPORTATION

I-95 EXPRESS LANES SOUTHERN TERMINUS EXTENSION

ITS, SIGNAGE, & LIGHTING PLAN

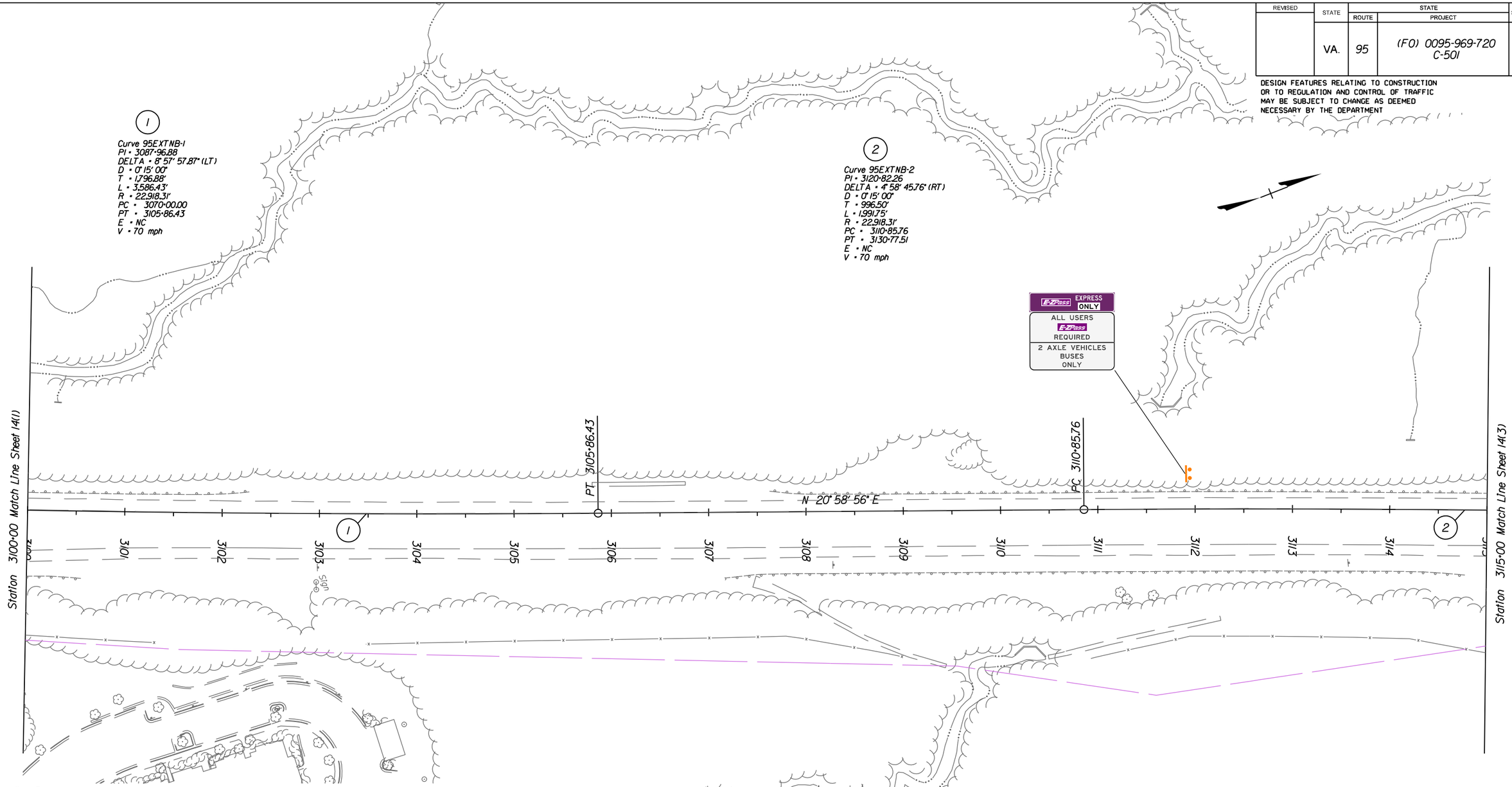
STA. 3085+00 TO STA. 3100+00 I-95 NB

LANE rda

PROJECT	SHEET NO.
(F0) 0095-969-720 C-501	14(1)

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.	95	(FO) 0095-969-720 C-501	14(2)

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



LEGEND

- GROUND-MOUNTED EQUIPMENT CABINET
- POLE-MOUNTED EQUIPMENT CABINET
- DETECTOR
- CCTV CAMERA
- SERVICE PANEL
- AUTOMATED INCIDENT DETECTION CAMERA
- POLE
- GATE
- GENERATOR
- METERED SERVICE
- OVERHEAD LIGHT
- JUNCTION BOX
- COMMUNICATION
- ELECTRIC (E)
- FIBER OPTIC (FO)
- LIGHTING POWER CIRCUIT
- EXISTING CANTILEVER SIGN STRUCTURE (G/H Sign)
- EXISTING SPAN SIGN STRUCTURE (G/H Sign)
- PROPOSED CANTILEVER SIGN STRUCTURE
- PROPOSED SPAN SIGN STRUCTURE
- PROPOSED GROUND MOUNTED SIGN STRUCTURE (GM)
- EXISTING RIGHT OF WAY AND LIMITED ACCESS LINE
- PROPOSED SIGN PANEL (EXPRESS ONLY / ENTRANCE)
- EXISTING SIGN PANEL TO REMAIN (EXPRESS ONLY / ENTRANCE)
- EXISTING SIGN PANEL AND STRUCTURE TO BE REMOVED (EXPRESS ONLY / ENTRANCE)

SCALE

0 100' 200'

VDOT COMMONWEALTH OF VIRGINIA DEPARTMENT OF TRANSPORTATION

I-95 EXPRESS LANES SOUTHERN TERMINUS EXTENSION

ITS, SIGNAGE, & LIGHTING PLAN

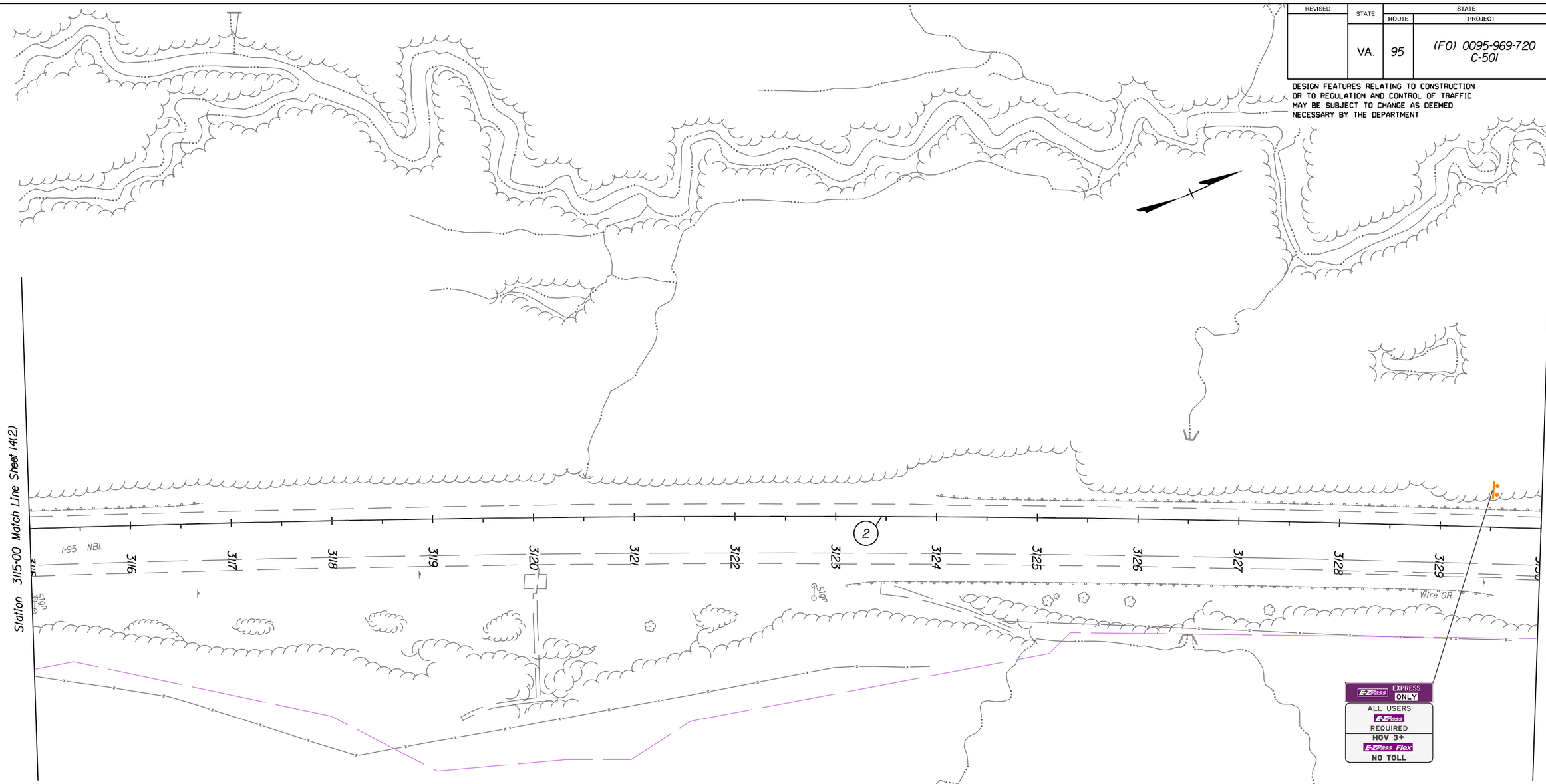
STA. 3100+00 TO STA. 3115+00 I-95 NB

LANE rda

PROJECT	SHEET NO.
(FO) 0095-969-720 C-501	14(2)

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.	95	(F0) 0095-969-720 C-501	14(3)

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



LEGEND

- GROUND-MOUNTED EQUIPMENT CABINET
- POLE-MOUNTED EQUIPMENT CABINET
- DETECTOR
- CCTV CAMERA
- SERVICE PANEL
- AUTOMATED INCIDENT DETECTION CAMERA
- POLE
- GATE
- GENERATOR
- METERED SERVICE
- OVERHEAD LIGHT
- JUNCTION BOX
- COMMUNICATION
- ELECTRIC
- FIBER OPTIC
- LIGHTING POWER CIRCUIT
- EXISTING CANTILEVER SIGN STRUCTURE
- EXISTING SPAN SIGN STRUCTURE
- PROPOSED CANTILEVER SIGN STRUCTURE
- PROPOSED SPAN SIGN STRUCTURE
- PROPOSED GROUND MOUNTED SIGN STRUCTURE
- EXISTING RIGHT OF WAY AND LIMITED ACCESS LINE
- PROPOSED SIGN PANEL
- EXISTING SIGN PANEL TO REMAIN
- EXISTING SIGN PANEL AND STRUCTURE TO BE REMOVED

2

Curve 95EXTNB-2
PI = 3120+82.26
DELTA = 4° 58' 45.76" (RT)
D = 0° 15' 00"
T = 996.50'
L = 1,991.75'
R = 22,918.31'
PC = 3110+85.76
PT = 3130+77.51
E = NC
V = 70 mph

SCALE
0 100' 200'

VDOT COMMONWEALTH OF VIRGINIA DEPARTMENT OF TRANSPORTATION

I-95 EXPRESS LANES SOUTHERN TERMINUS EXTENSION

ITS, SIGNAGE, & LIGHTING PLAN

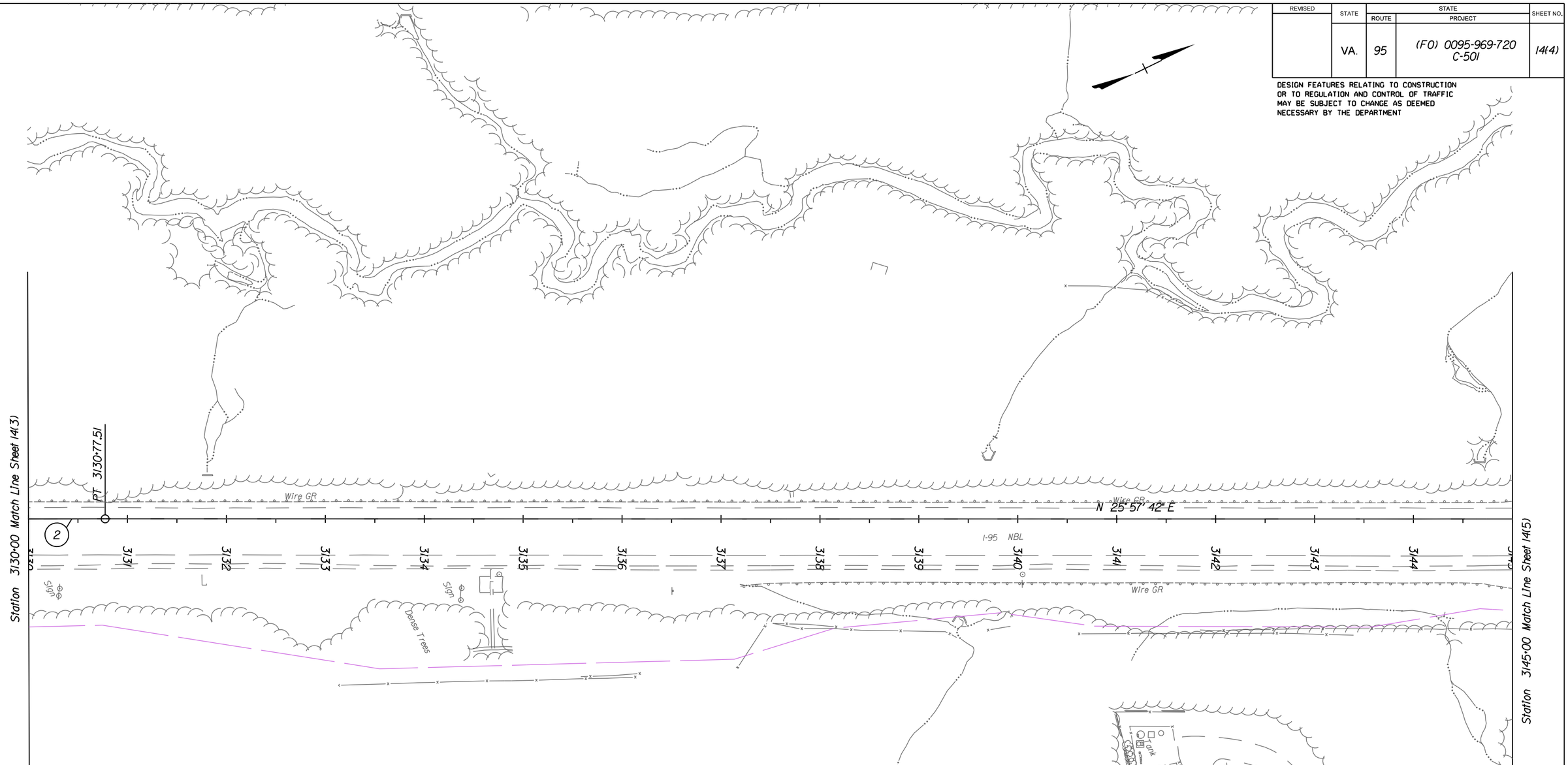
STA. 3115+00 TO STA. 3130+00 I-95 NB

LANE rda

PROJECT	SHEET NO.
(F0) 0095-969-720 C-501	14(3)

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.	95	(FO) 0095-969-720 C-501	14(4)

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



LEGEND

- GROUND-MOUNTED EQUIPMENT CABINET
- POLE-MOUNTED EQUIPMENT CABINET
- DETECTOR
- CCTV CAMERA
- SERVICE PANEL
- AUTOMATED INCIDENT DETECTION CAMERA
- POLE
- GATE
- GENERATOR
- METERED SERVICE
- OVERHEAD LIGHT
- JUNCTION BOX
- COMMUNICATION
- ELECTRIC
- FIBER OPTIC
- LIGHTING POWER CIRCUIT

- EXISTING CANTILEVER SIGN STRUCTURE
- EXISTING SPAN SIGN STRUCTURE
- PROPOSED CANTILEVER SIGN STRUCTURE
- PROPOSED SPAN SIGN STRUCTURE
- PROPOSED GROUND MOUNTED SIGN STRUCTURE
- EXISTING RIGHT OF WAY AND LIMITED ACCESS LINE
- PROPOSED SIGN PANEL
- EXISTING SIGN PANEL TO REMAIN
- EXISTING SIGN PANEL AND STRUCTURE TO BE REMOVED

SCALE

0 100' 200'

2

Curve 95EXTNB-2
PI = 3120+82.26
DELTA = 4° 58' 45.76" (RT)
D = 0° 15' 00"
T = 996.50'
L = 1,991.75'
R = 22,918.31'
PC = 3110+85.76
PT = 3130+77.51
E = NC
V = 70 mph

VDOT COMMONWEALTH OF VIRGINIA DEPARTMENT OF TRANSPORTATION

I-95 EXPRESS LANES SOUTHERN TERMINUS EXTENSION

ITS, SIGNAGE, & LIGHTING PLAN

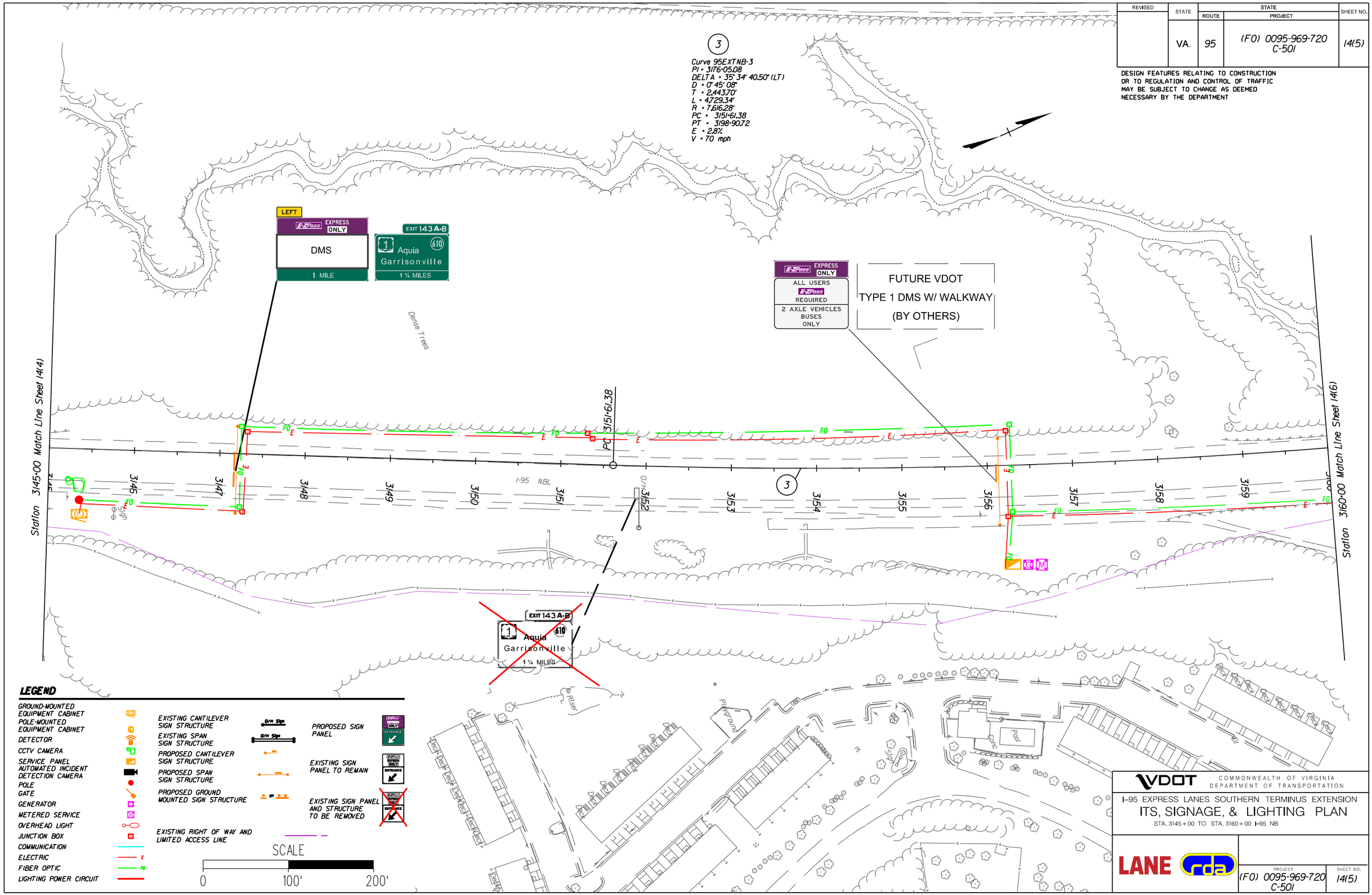
STA. 3130+00 TO STA. 3145+00 I-95 NB

LANE rda

PROJECT	SHEET NO.
(FO) 0095-969-720 C-501	14(4)

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.	95	(FO) 0095-969-720 C-501	14(5)

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



VDOT COMMONWEALTH OF VIRGINIA DEPARTMENT OF TRANSPORTATION

I-95 EXPRESS LANES SOUTHERN TERMINUS EXTENSION

ITS, SIGNAGE, & LIGHTING PLAN

STA. 3145+00 TO STA. 3160+00 I-95 NB

LANE rda

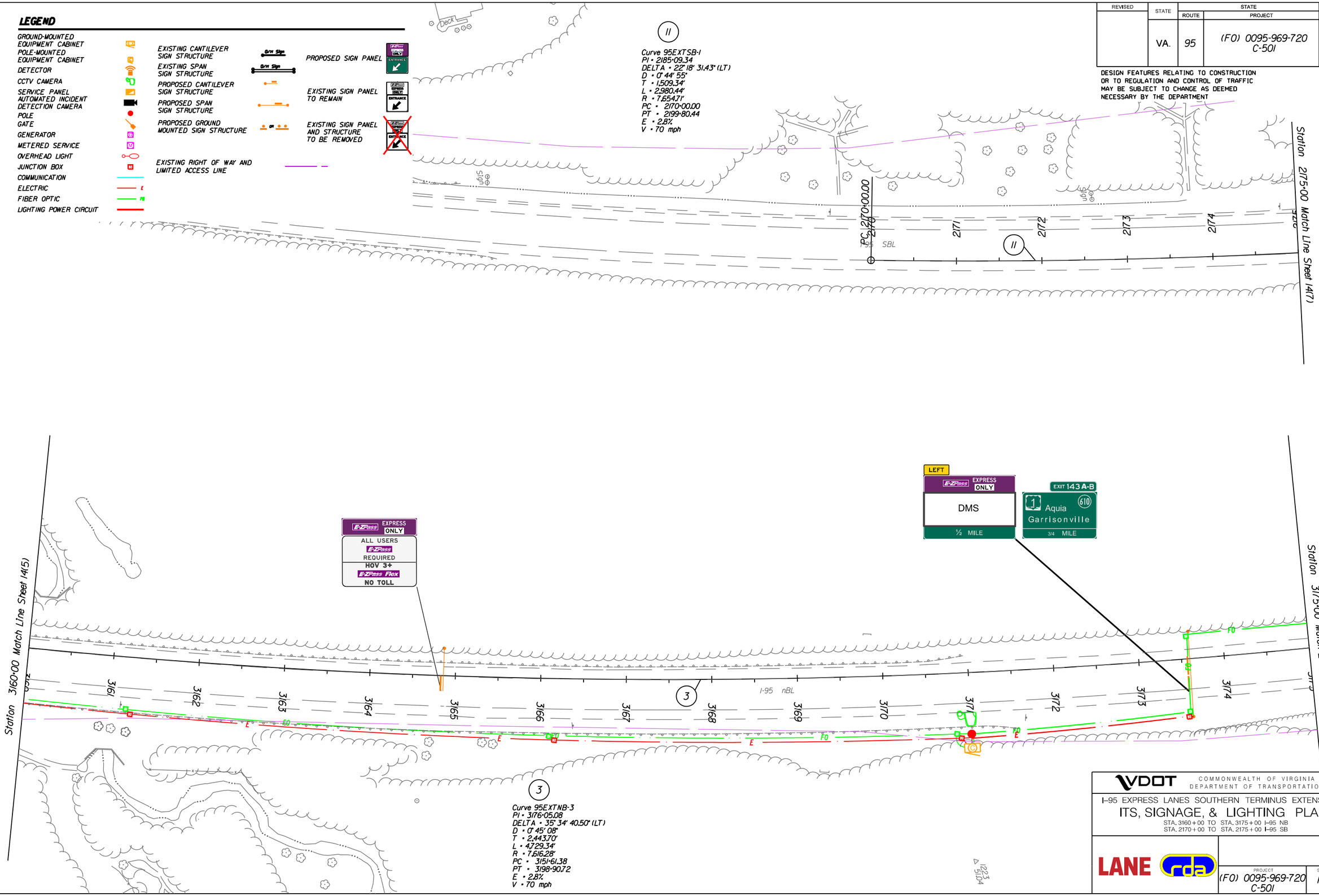
PROJECT	SHEET NO.
(FO) 0095-969-720 C-501	14(5)

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.	95	(F0) 0095-969-720 C-501	14(6)

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

LEGEND

- GROUND-MOUNTED EQUIPMENT CABINET
- POLE-MOUNTED EQUIPMENT CABINET
- DETECTOR
- CCTV CAMERA
- SERVICE PANEL
- AUTOMATED INCIDENT DETECTION CAMERA
- POLE
- GATE
- GENERATOR
- METERED SERVICE
- OVERHEAD LIGHT
- JUNCTION BOX
- COMMUNICATION
- ELECTRIC
- FIBER OPTIC
- LIGHTING POWER CIRCUIT
- EXISTING CANTILEVER SIGN STRUCTURE
- EXISTING SPAN SIGN STRUCTURE
- PROPOSED CANTILEVER SIGN STRUCTURE
- PROPOSED SPAN SIGN STRUCTURE
- PROPOSED GROUND MOUNTED SIGN STRUCTURE
- EXISTING RIGHT OF WAY AND LIMITED ACCESS LINE
- PROPOSED SIGN PANEL
- EXISTING SIGN PANEL TO REMAIN
- EXISTING SIGN PANEL AND STRUCTURE TO BE REMOVED



VDOT COMMONWEALTH OF VIRGINIA DEPARTMENT OF TRANSPORTATION

I-95 EXPRESS LANES SOUTHERN TERMINUS EXTENSION

ITS, SIGNAGE, & LIGHTING PLAN

STA. 3160+00 TO STA. 3175+00 I-95 NB
STA. 2170+00 TO STA. 2175+00 I-95 SB

LANE rda

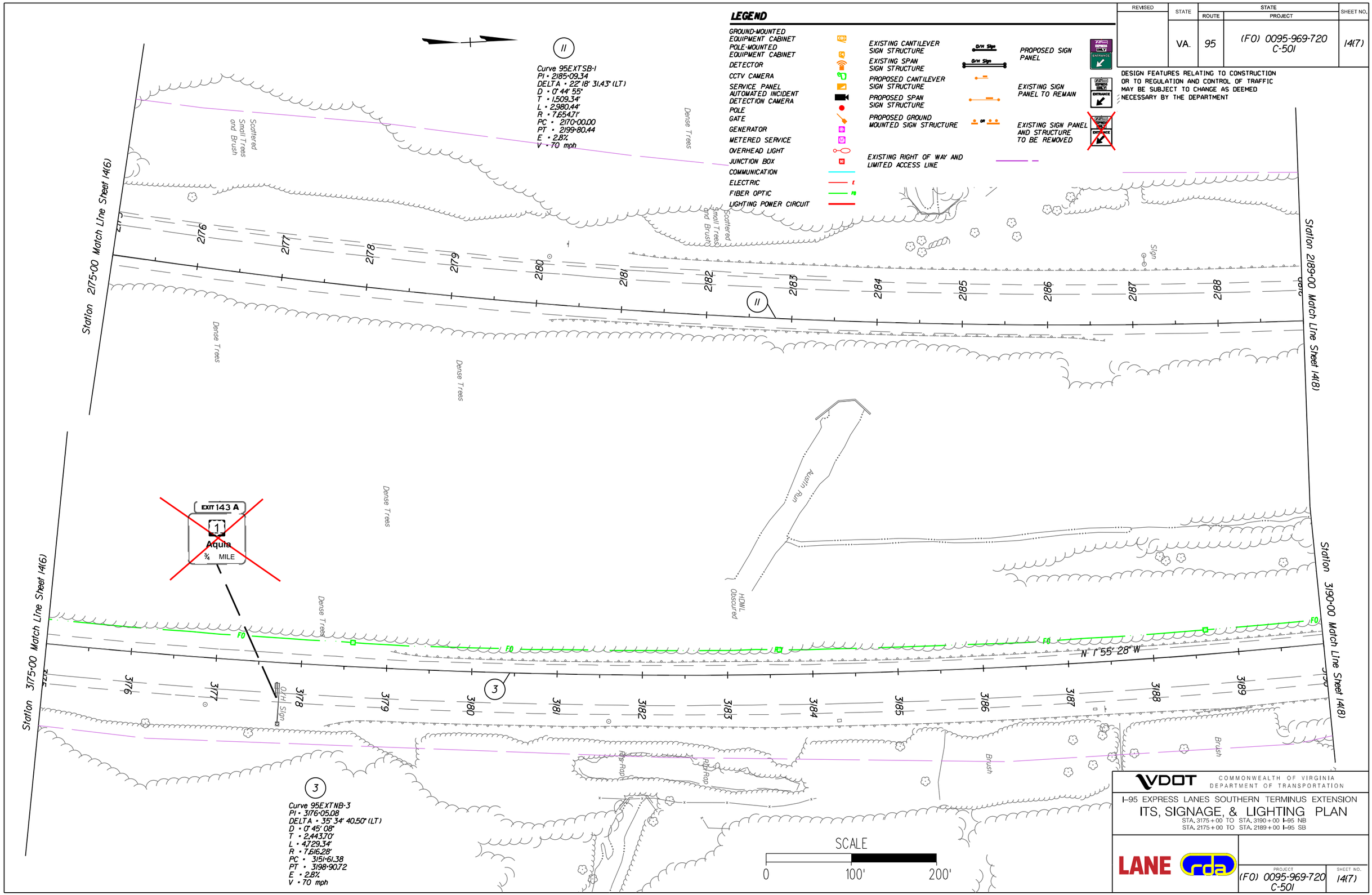
PROJECT	SHEET NO.
(F0) 0095-969-720 C-501	14(6)

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.	95	(FO) 0095-969-720 C-501	14(7)

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

LEGEND

- GROUND-MOUNTED EQUIPMENT CABINET
- POLE-MOUNTED EQUIPMENT CABINET
- DETECTOR
- CCTV CAMERA
- SERVICE PANEL
- AUTOMATED INCIDENT DETECTION CAMERA
- POLE
- GATE
- GENERATOR
- METERED SERVICE
- OVERHEAD LIGHT
- JUNCTION BOX
- COMMUNICATION
- ELECTRIC
- FIBER OPTIC
- LIGHTING POWER CIRCUIT
- EXISTING CANTILEVER SIGN STRUCTURE
- EXISTING SPAN SIGN STRUCTURE
- PROPOSED CANTILEVER SIGN STRUCTURE
- PROPOSED SPAN SIGN STRUCTURE
- PROPOSED GROUND MOUNTED SIGN STRUCTURE
- EXISTING RIGHT OF WAY AND LIMITED ACCESS LINE
- PROPOSED SIGN PANEL
- EXISTING SIGN PANEL TO REMAIN
- EXISTING SIGN PANEL AND STRUCTURE TO BE REMOVED



VDOT COMMONWEALTH OF VIRGINIA DEPARTMENT OF TRANSPORTATION

I-95 EXPRESS LANES SOUTHERN TERMINUS EXTENSION

ITS, SIGNAGE, & LIGHTING PLAN

STA. 3175+00 TO STA. 3190+00 I-95 NB
STA. 2175+00 TO STA. 2189+00 I-95 SB

LANE

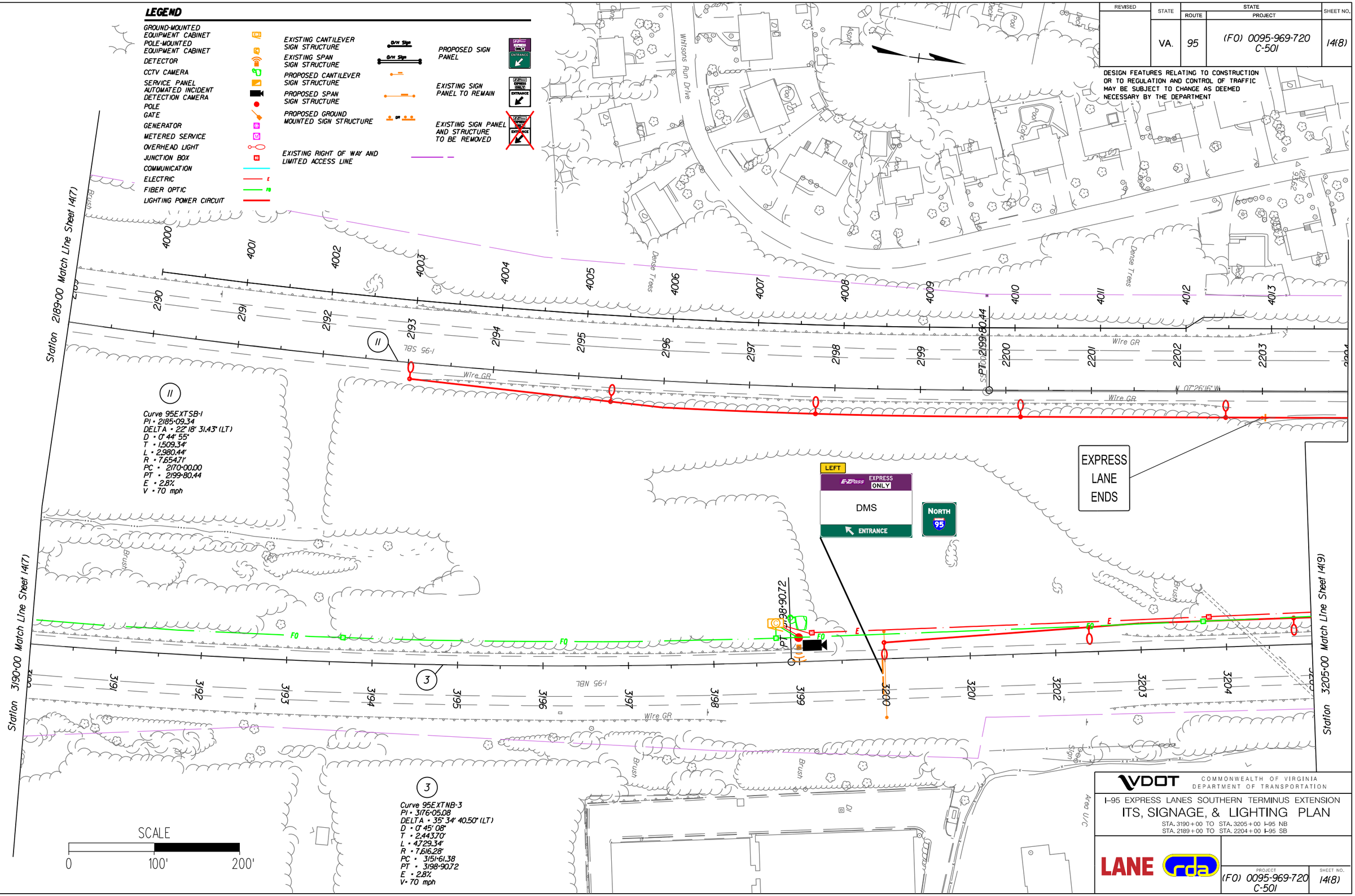
PROJECT	SHEET NO.
(FO) 0095-969-720 C-501	14(7)

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.	95	(FO) 0095-969-720 C-501	14(8)

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

LEGEND

- GROUND-MOUNTED EQUIPMENT CABINET
- POLE-MOUNTED EQUIPMENT CABINET
- DETECTOR
- CCTV CAMERA
- SERVICE PANEL
- AUTOMATED INCIDENT DETECTION CAMERA
- POLE
- GATE
- GENERATOR
- METERED SERVICE
- OVERHEAD LIGHT
- JUNCTION BOX
- COMMUNICATION
- ELECTRIC
- FIBER OPTIC
- LIGHTING POWER CIRCUIT
- EXISTING CANTILEVER SIGN STRUCTURE
- EXISTING SPAN SIGN STRUCTURE
- PROPOSED CANTILEVER SIGN STRUCTURE
- PROPOSED SPAN SIGN STRUCTURE
- PROPOSED GROUND MOUNTED SIGN STRUCTURE
- EXISTING RIGHT OF WAY AND LIMITED ACCESS LINE
- PROPOSED SIGN PANEL
- EXISTING SIGN PANEL TO REMAIN
- EXISTING SIGN PANEL AND STRUCTURE TO BE REMOVED



VDOT COMMONWEALTH OF VIRGINIA DEPARTMENT OF TRANSPORTATION

I-95 EXPRESS LANES SOUTHERN TERMINUS EXTENSION

ITS, SIGNAGE, & LIGHTING PLAN

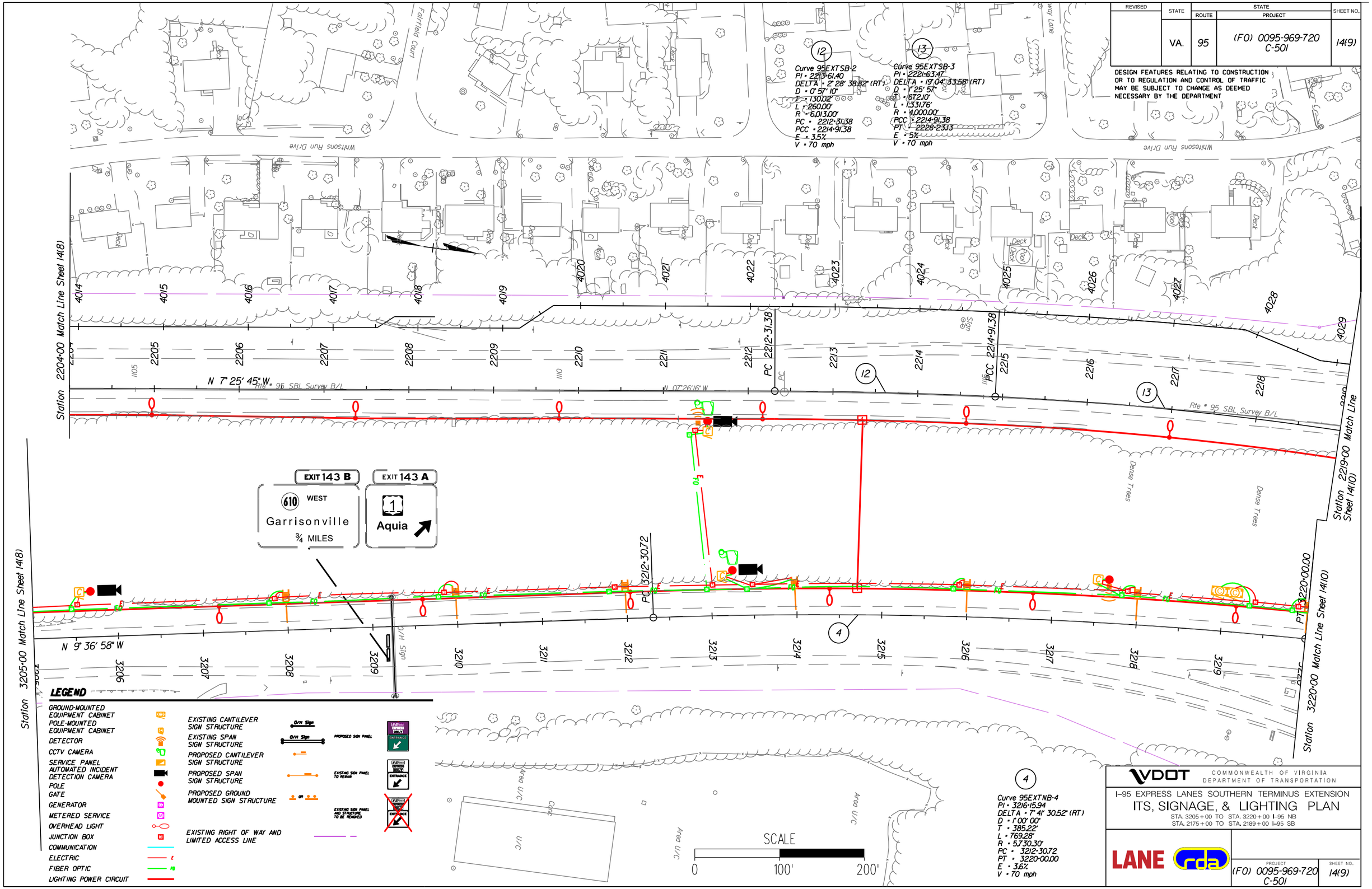
STA. 3190+00 TO STA. 3205+00 I-95 NB
STA. 2189+00 TO STA. 2204+00 I-95 SB

LANE rda

PROJECT	SHEET NO.
(FO) 0095-969-720 C-501	14(8)

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.	95	(FO) 0095-969-720 C-501	14(9)

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



VDOT COMMONWEALTH OF VIRGINIA DEPARTMENT OF TRANSPORTATION

I-95 EXPRESS LANES SOUTHERN TERMINUS EXTENSION

ITS, SIGNAGE, & LIGHTING PLAN

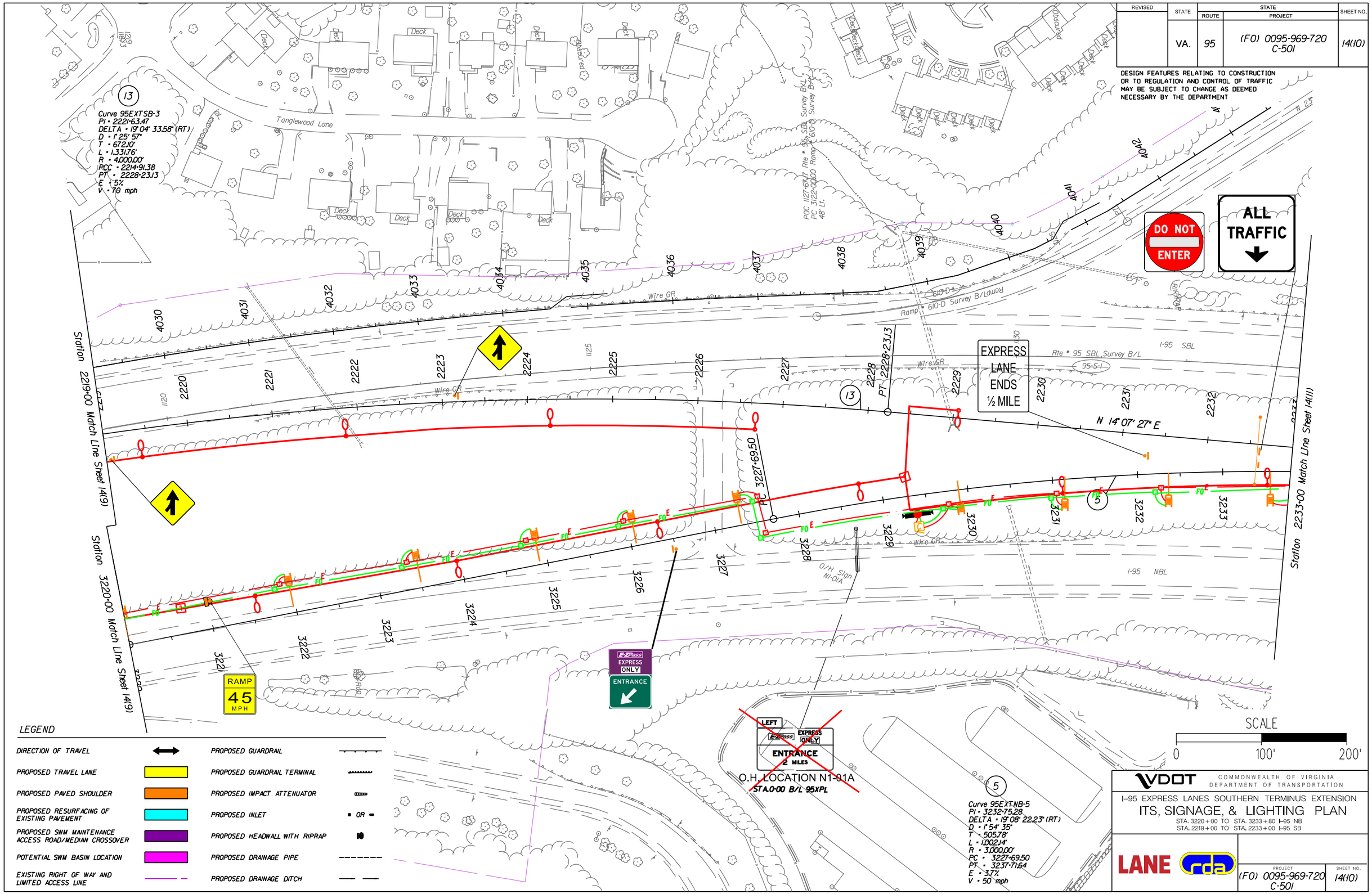
STA. 3205+00 TO STA. 3220+00 I-95 NB
STA. 2175+00 TO STA. 2189+00 I-95 SB

LANE rda

PROJECT	SHEET NO.
(FO) 0095-969-720 C-501	14(9)

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.	95	(FO) 0095-969-720 C-501	14(10)

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



LEGEND

DIRECTION OF TRAVEL	PROPOSED GUARDRAIL
PROPOSED TRAVEL LANE	PROPOSED GUARDRAIL TERMINAL
PROPOSED PAVED SHOULDER	PROPOSED IMPACT ATTENUATOR
PROPOSED RESURFACING OF EXISTING PAVEMENT	PROPOSED INLET ■ OR ■
PROPOSED SWM MAINTENANCE ACCESS ROAD/MEDIAN CROSSOVER	PROPOSED HEADWALL WITH RIPRAP
POTENTIAL SWM BASIN LOCATION	PROPOSED DRAINAGE PIPE
EXISTING RIGHT OF WAY AND LIMITED ACCESS LINE	PROPOSED DRAINAGE DITCH

VDOT COMMONWEALTH OF VIRGINIA DEPARTMENT OF TRANSPORTATION

I-95 EXPRESS LANES SOUTHERN TERMINUS EXTENSION

ITS, SIGNAGE, & LIGHTING PLAN

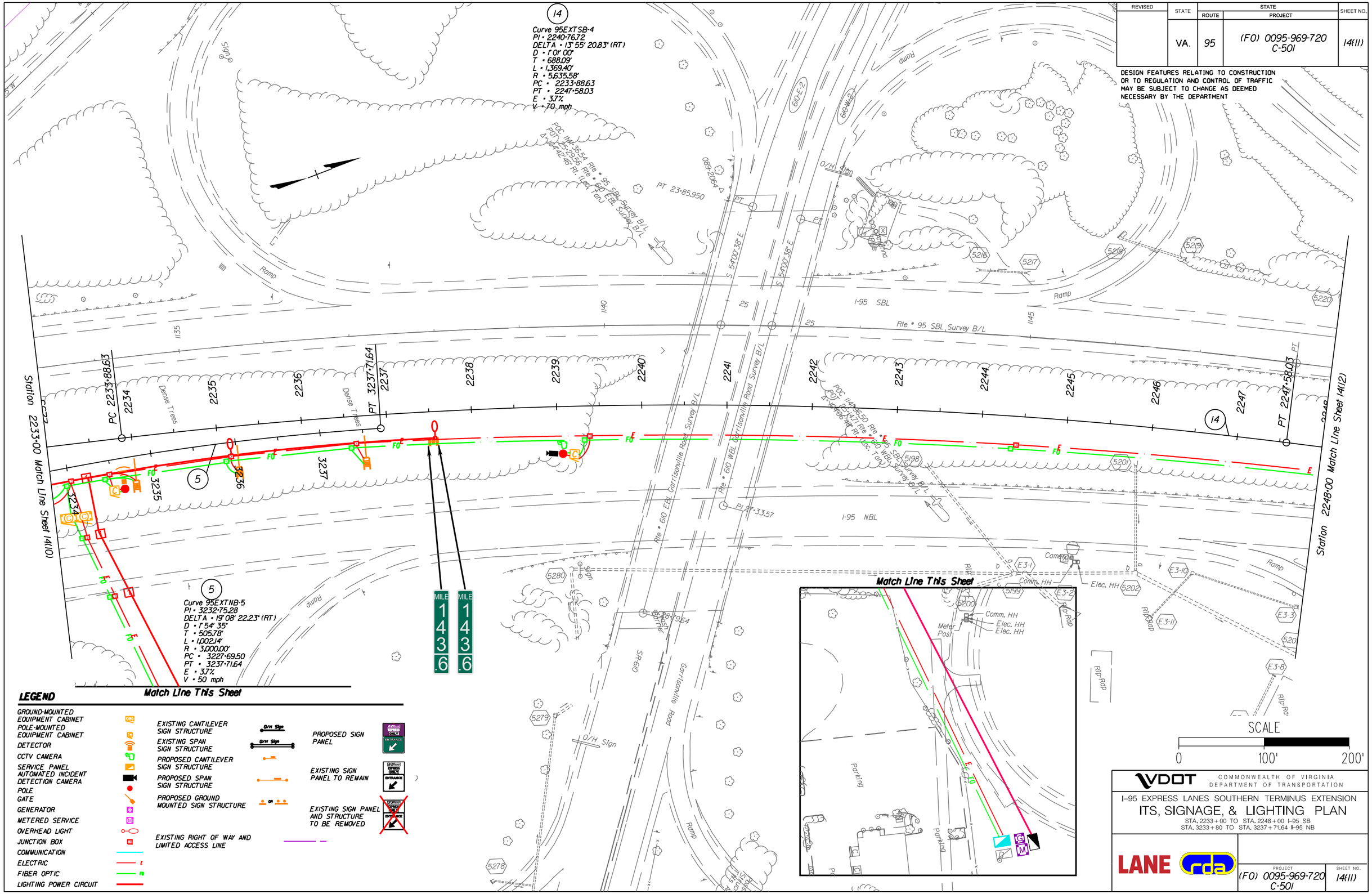
STA. 3220+00 TO STA. 3233+80 I-95 NB
STA. 2219+00 TO STA. 2233+00 I-95 SB

LANE rda

PROJECT	SHEET NO.
(FO) 0095-969-720 C-501	14(10)

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.	95	(FO) 0095-969-720 C-501	14(11)

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



LEGEND

- GROUND-MOUNTED EQUIPMENT CABINET
- POLE-MOUNTED EQUIPMENT CABINET
- DETECTOR
- CCTV CAMERA
- SERVICE PANEL
- AUTOMATED INCIDENT DETECTION CAMERA
- POLE
- GATE
- GENERATOR
- METERED SERVICE
- OVERHEAD LIGHT
- JUNCTION BOX
- COMMUNICATION
- ELECTRIC
- FIBER OPTIC
- LIGHTING POWER CIRCUIT
- EXISTING CANTILEVER SIGN STRUCTURE
- EXISTING SPAN SIGN STRUCTURE
- PROPOSED CANTILEVER SIGN STRUCTURE
- PROPOSED SPAN SIGN STRUCTURE
- PROPOSED GROUND MOUNTED SIGN STRUCTURE
- EXISTING RIGHT OF WAY AND LIMITED ACCESS LINE
- PROPOSED SIGN PANEL
- EXISTING SIGN PANEL TO REMAIN
- EXISTING SIGN PANEL AND STRUCTURE TO BE REMOVED

VDOT COMMONWEALTH OF VIRGINIA DEPARTMENT OF TRANSPORTATION

I-95 EXPRESS LANES SOUTHERN TERMINUS EXTENSION

ITS, SIGNAGE, & LIGHTING PLAN

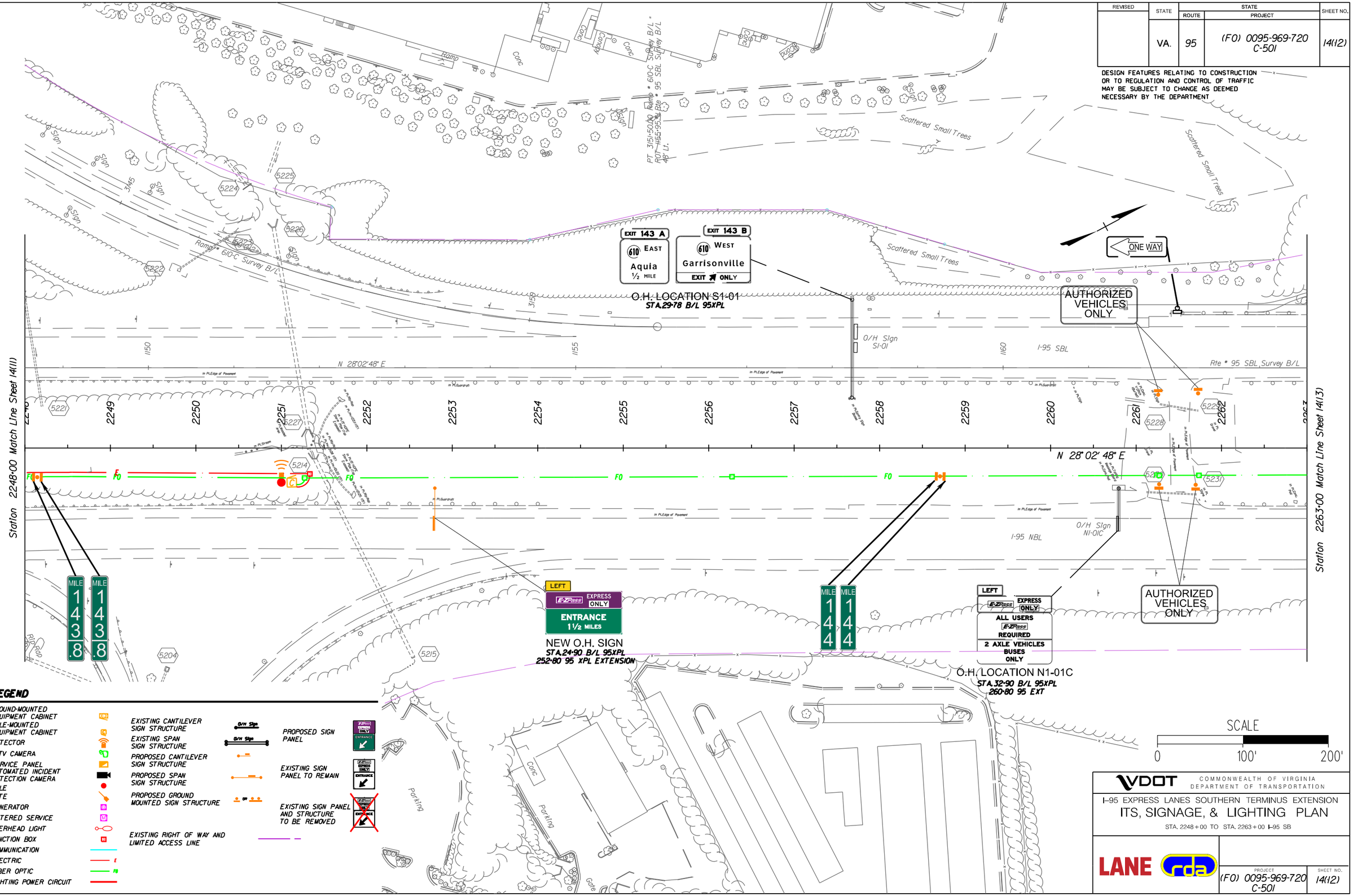
STA. 2233+00 TO STA. 2248+00 I-95 SB
STA. 3233+80 TO STA. 3237+71.64 I-95 NB

LANE rda

PROJECT	SHEET NO.
(FO) 0095-969-720 C-501	14(11)

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.	95	(FO) 0095-969-720 C-501	14(12)

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



VDOT COMMONWEALTH OF VIRGINIA DEPARTMENT OF TRANSPORTATION

I-95 EXPRESS LANES SOUTHERN TERMINUS EXTENSION

ITS, SIGNAGE, & LIGHTING PLAN

STA. 2248+00 TO STA. 2263+00 I-95 SB

LANE rda

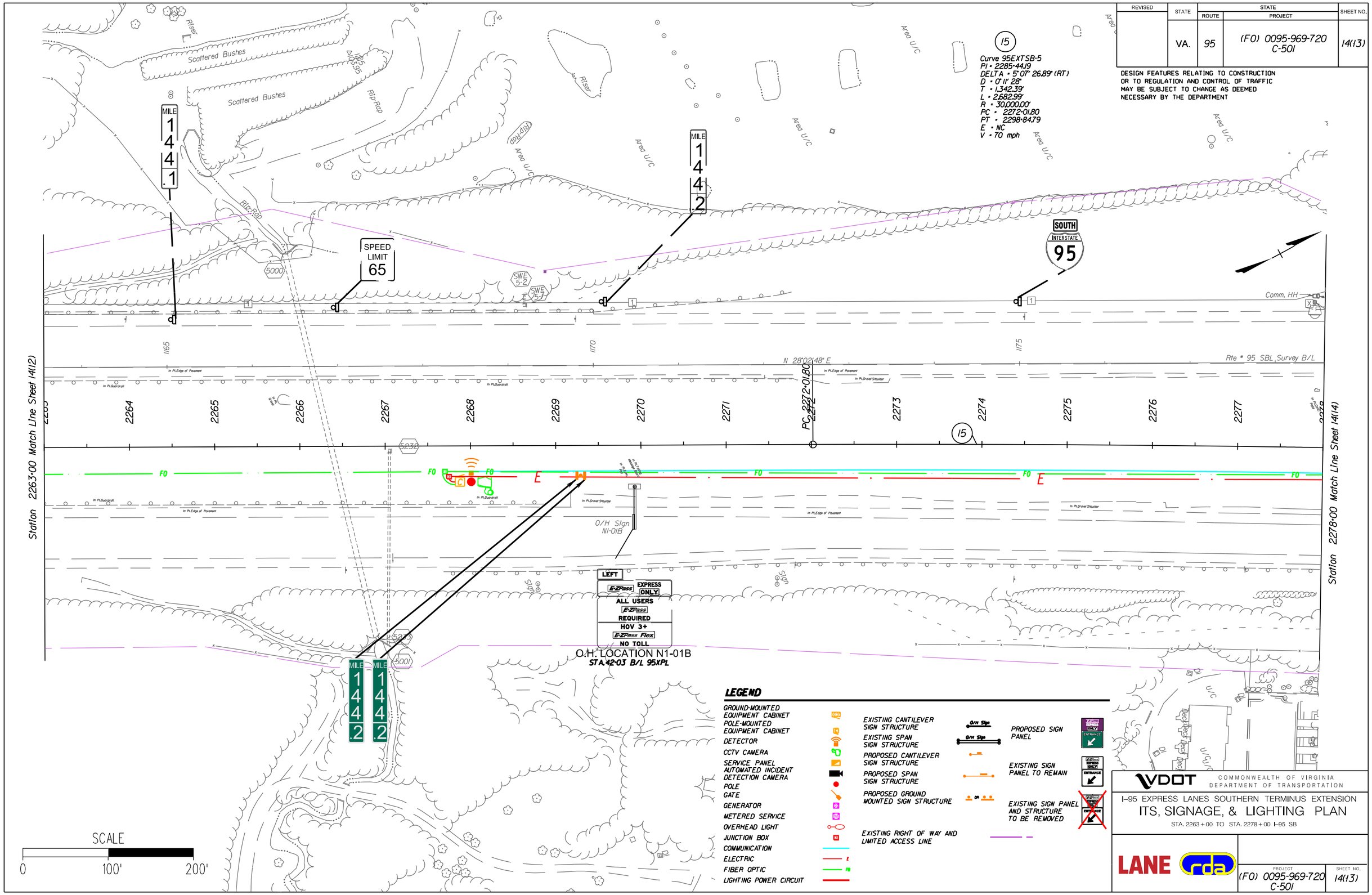
PROJECT	SHEET NO.
(FO) 0095-969-720 C-501	14(12)

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.	95	(FO) 0095-969-720 C-501	14(13)

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

15

Curve 95EXTSB-5
PI = 2285+44.19
DELTA = 5°07' 26.89" (RT)
D = 0°11' 28"
T = 1,342.39'
L = 2,682.99'
R = 30,000.00'
PC = 2272+01.80
PT = 2298+84.79
E = NC
V = 70 mph



LEGEND

- GROUND-MOUNTED EQUIPMENT CABINET
- POLE-MOUNTED EQUIPMENT CABINET
- DETECTOR
- CCTV CAMERA
- SERVICE PANEL
- AUTOMATED INCIDENT DETECTION CAMERA
- POLE
- GATE
- GENERATOR
- METERED SERVICE
- OVERHEAD LIGHT
- JUNCTION BOX
- COMMUNICATION
- ELECTRIC
- FIBER OPTIC
- LIGHTING POWER CIRCUIT
- EXISTING CANTILEVER SIGN STRUCTURE
- EXISTING SPAN SIGN STRUCTURE
- PROPOSED CANTILEVER SIGN STRUCTURE
- PROPOSED SPAN SIGN STRUCTURE
- PROPOSED GROUND MOUNTED SIGN STRUCTURE
- EXISTING RIGHT OF WAY AND LIMITED ACCESS LINE
- PROPOSED SIGN PANEL
- EXISTING SIGN PANEL TO REMAIN
- EXISTING SIGN PANEL AND STRUCTURE TO BE REMOVED

VDOT COMMONWEALTH OF VIRGINIA DEPARTMENT OF TRANSPORTATION

I-95 EXPRESS LANES SOUTHERN TERMINUS EXTENSION

ITS, SIGNAGE, & LIGHTING PLAN

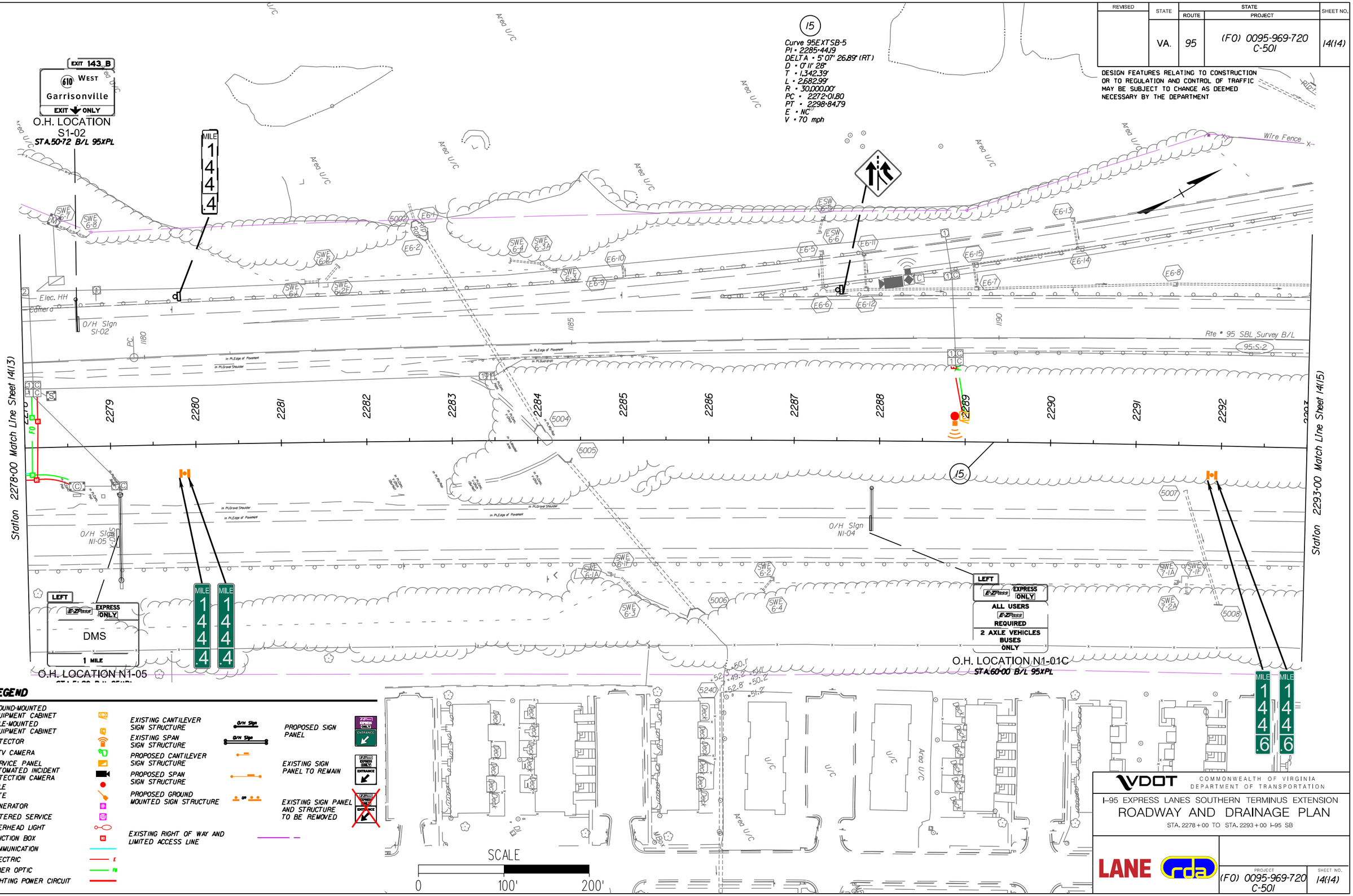
STA. 2263+00 TO STA. 2278+00 I-95 SB

LANE rda

PROJECT	SHEET NO.
(FO) 0095-969-720 C-501	14(13)

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.	95	(FO) 0095-969-720 C-501	14(14)

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



VDOT COMMONWEALTH OF VIRGINIA DEPARTMENT OF TRANSPORTATION

I-95 EXPRESS LANES SOUTHERN TERMINUS EXTENSION

ROADWAY AND DRAINAGE PLAN

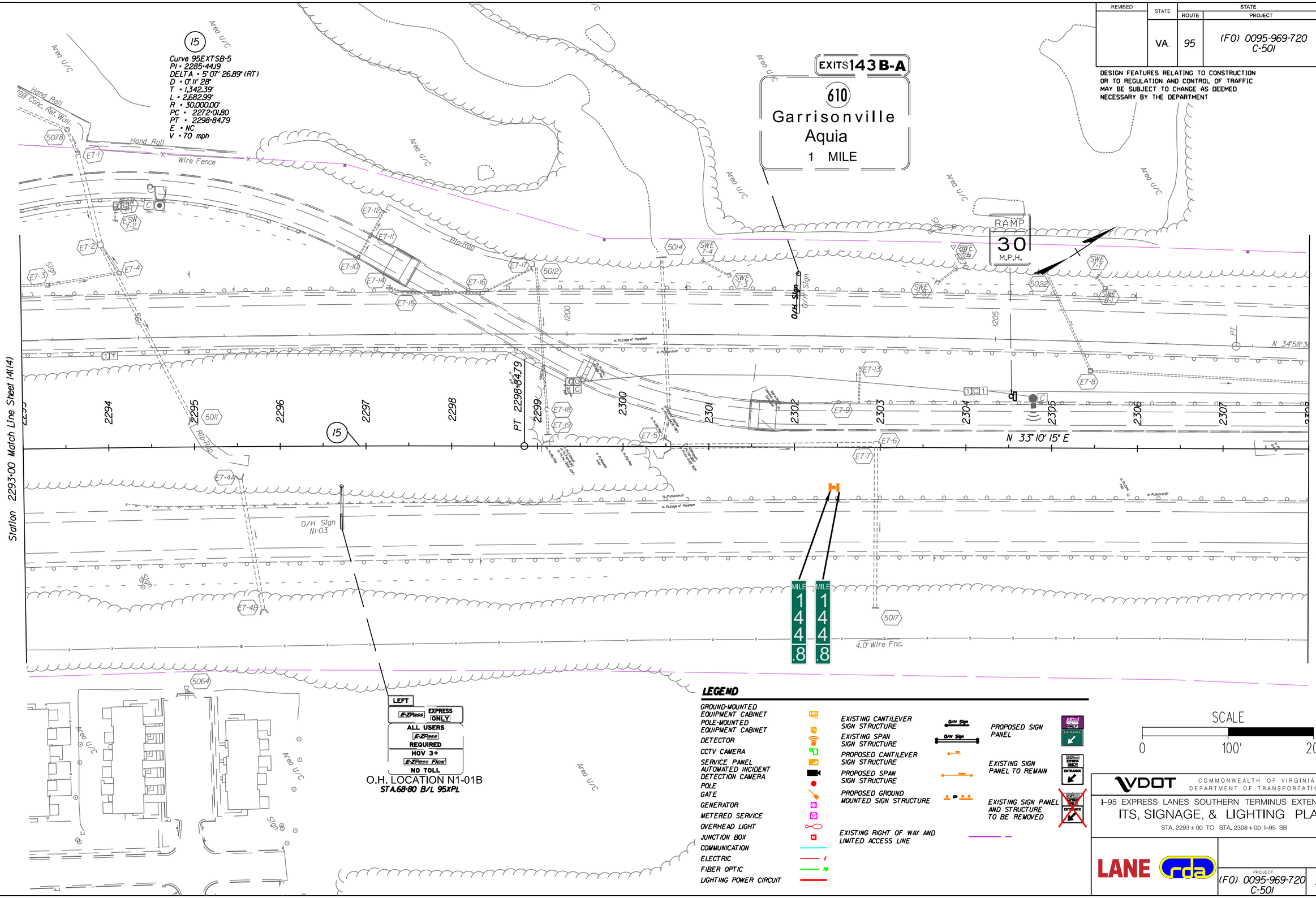
STA. 2278+00 TO STA. 2293+00 I-95 SB

LANE rda

PROJECT	SHEET NO.
(FO) 0095-969-720 C-501	14(14)

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.	95	(FO) 0095-969-720 C-501	14(15)

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



VDOT COMMONWEALTH OF VIRGINIA DEPARTMENT OF TRANSPORTATION

I-95 EXPRESS LANES SOUTHERN TERMINUS EXTENSION

ITS, SIGNAGE, & LIGHTING PLAN

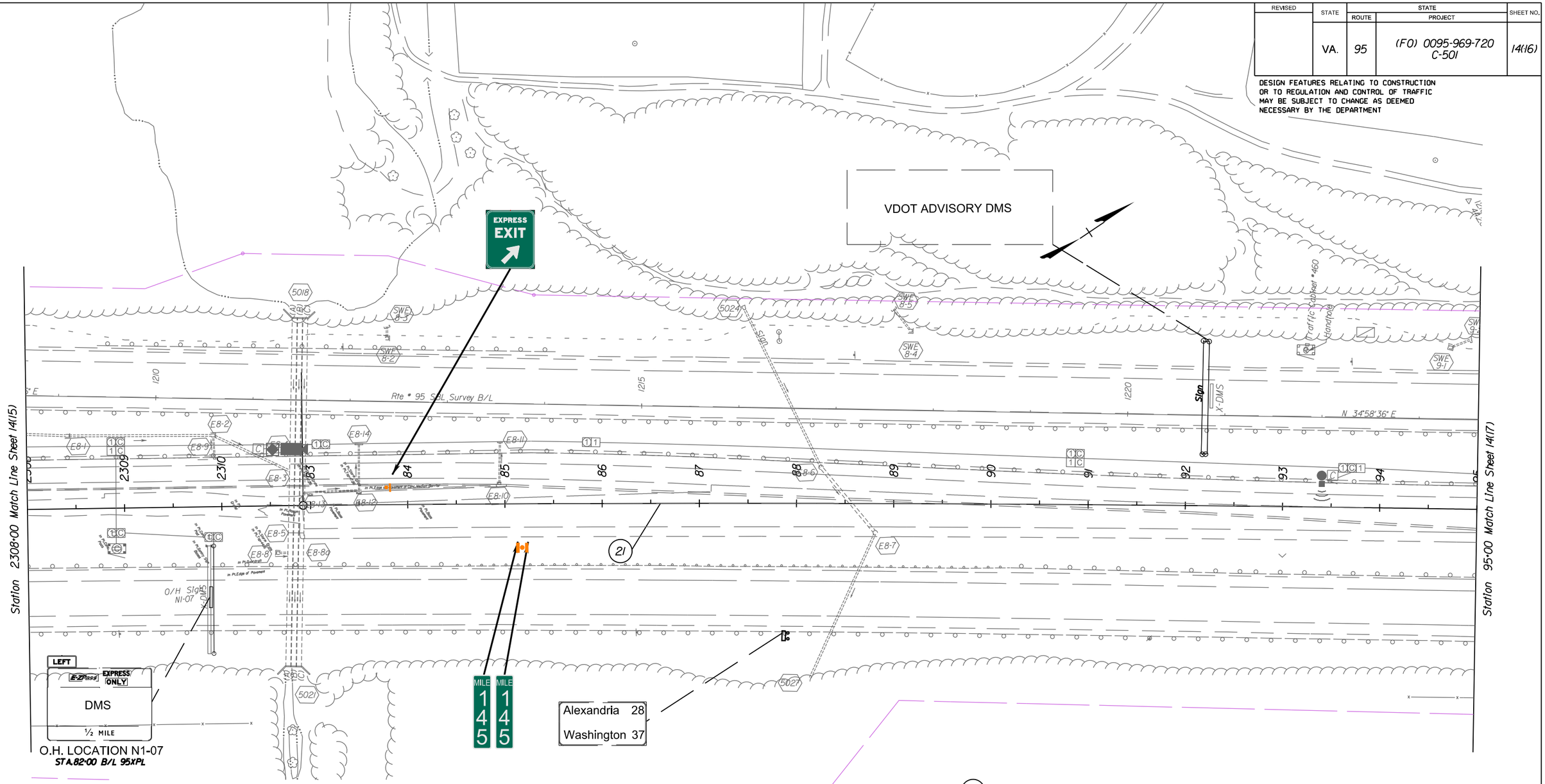
STA. 2293+00 TO STA. 2308+00 I-95 SB

LANE rda

PROJECT	SHEET NO.
(FO) 0095-969-720 C-501	14(15)

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.	95	(FO) 0095-969-720 C-501	14(16)

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



LEGEND

- GROUND-MOUNTED EQUIPMENT CABINET
- POLE-MOUNTED EQUIPMENT CABINET
- DETECTOR
- CCTV CAMERA
- SERVICE PANEL
- AUTOMATED INCIDENT DETECTION CAMERA
- POLE
- GATE
- GENERATOR
- METERED SERVICE
- OVERHEAD LIGHT
- JUNCTION BOX
- COMMUNICATION
- ELECTRIC
- FIBER OPTIC
- LIGHTING POWER CIRCUIT
- EXISTING CANTILEVER SIGN STRUCTURE
- EXISTING SPAN SIGN STRUCTURE
- PROPOSED CANTILEVER SIGN STRUCTURE
- PROPOSED SPAN SIGN STRUCTURE
- PROPOSED GROUND MOUNTED SIGN STRUCTURE
- EXISTING RIGHT OF WAY AND LIMITED ACCESS LINE
- PROPOSED SIGN PANEL
- EXISTING SIGN PANEL TO REMAIN
- EXISTING SIGN PANEL AND STRUCTURE TO BE REMOVED

21

Curve 95XPL-1
PI = 89+07.46
DELTA = 1° 29' 57.93" (RT)
D = 0° 07' 19"
T = 615.03'
L = 1,229.99'
R = 47,000.00'
PC = 82+92.43
PT = 95+22.42
E = NC
V = 70 mph

SCALE
0 100' 200'

VDOT COMMONWEALTH OF VIRGINIA DEPARTMENT OF TRANSPORTATION

I-95 EXPRESS LANES SOUTHERN TERMINUS EXTENSION

ITS, SIGNAGE, & LIGHTING PLAN

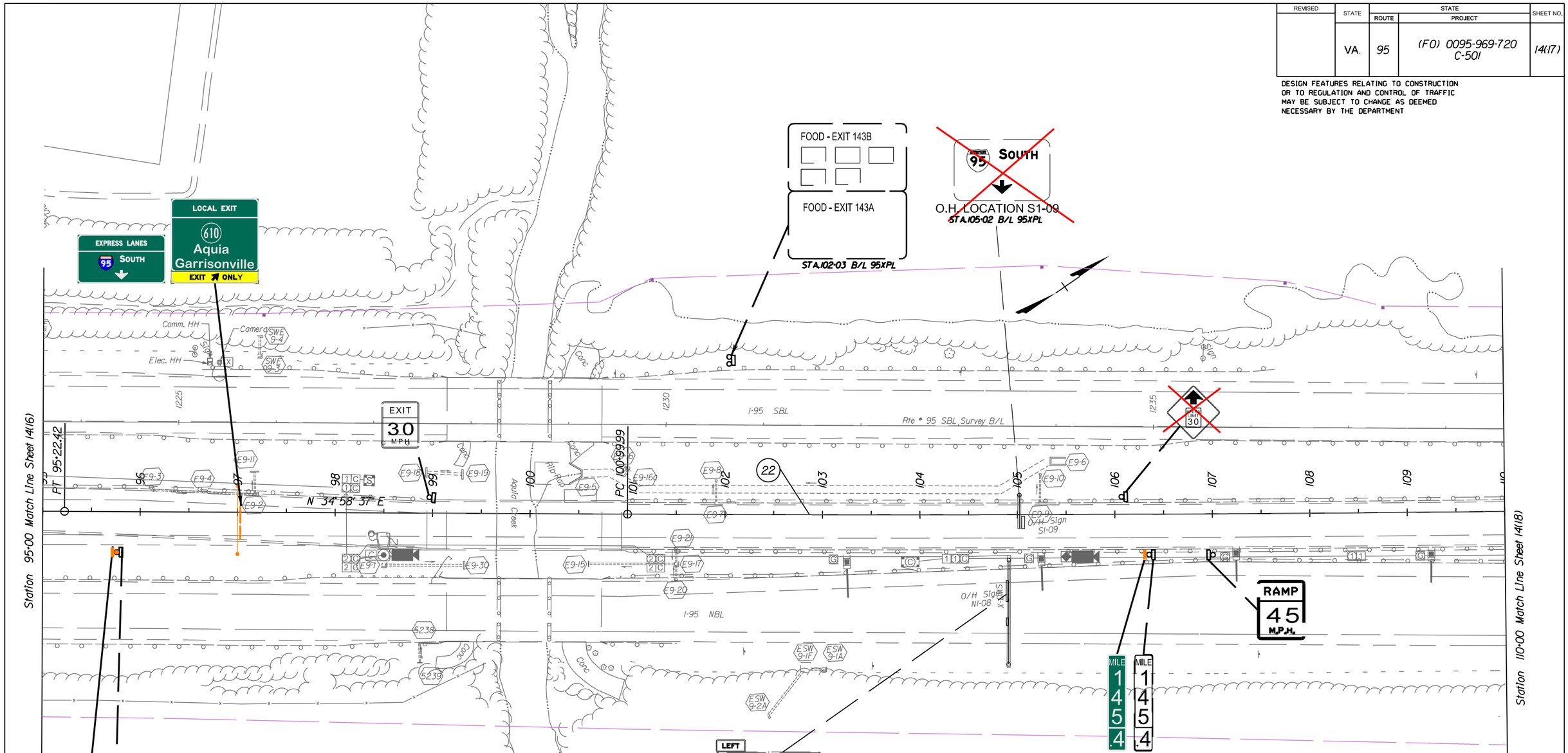
STA. 2308+00 TO STA. 95+00 I-95 XPL

LANE rda

PROJECT	SHEET NO.
(FO) 0095-969-720 C-501	14(16)

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.	95	(F0) 0095-969-720 C-501	14(17)

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



O.H. LOCATION N1-08
STA.104+91 B/L 95XPL

LEGEND

- GROUND-MOUNTED EQUIPMENT CABINET
- POLE-MOUNTED EQUIPMENT CABINET
- DETECTOR
- CCTV CAMERA
- SERVICE PANEL
- AUTOMATED INCIDENT DETECTION CAMERA
- POLE
- GATE
- GENERATOR
- METERED SERVICE
- OVERHEAD LIGHT
- JUNCTION BOX
- COMMUNICATION
- ELECTRIC
- FIBER OPTIC
- LIGHTING POWER CIRCUIT
- EXISTING CANTILEVER SIGN STRUCTURE
- EXISTING SPAN SIGN STRUCTURE
- PROPOSED CANTILEVER SIGN STRUCTURE
- PROPOSED SPAN SIGN STRUCTURE
- PROPOSED GROUND MOUNTED SIGN STRUCTURE
- EXISTING RIGHT OF WAY AND LIMITED ACCESS LINE
- PROPOSED SIGN PANEL
- EXISTING SIGN PANEL TO REMAIN
- EXISTING SIGN PANEL AND STRUCTURE TO BE REMOVED

22

Curve 95XPL-2
PI = 106+29.16
DELTA = 1°04' 58.10" (LT)
D = 0°06' 08"
T = 529.17'
L = 1,058.32'
R = 56,000.00'
PC = 100+99.99
PRC = 111+58.30
E = NC
V = 70 mph

SCALE
0 100' 200'

VDOT COMMONWEALTH OF VIRGINIA DEPARTMENT OF TRANSPORTATION

I-95 EXPRESS LANES SOUTHERN TERMINUS EXTENSION

ITS, SIGNAGE, & LIGHTING PLAN

STA. 95+00 TO STA. 110+00 I-95 XPL

LANE rda

PROJECT	SHEET NO.
(F0) 0095-969-720 C-501	14(17)

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.	95	(F0) 0095-969-720 C-501	14(18)

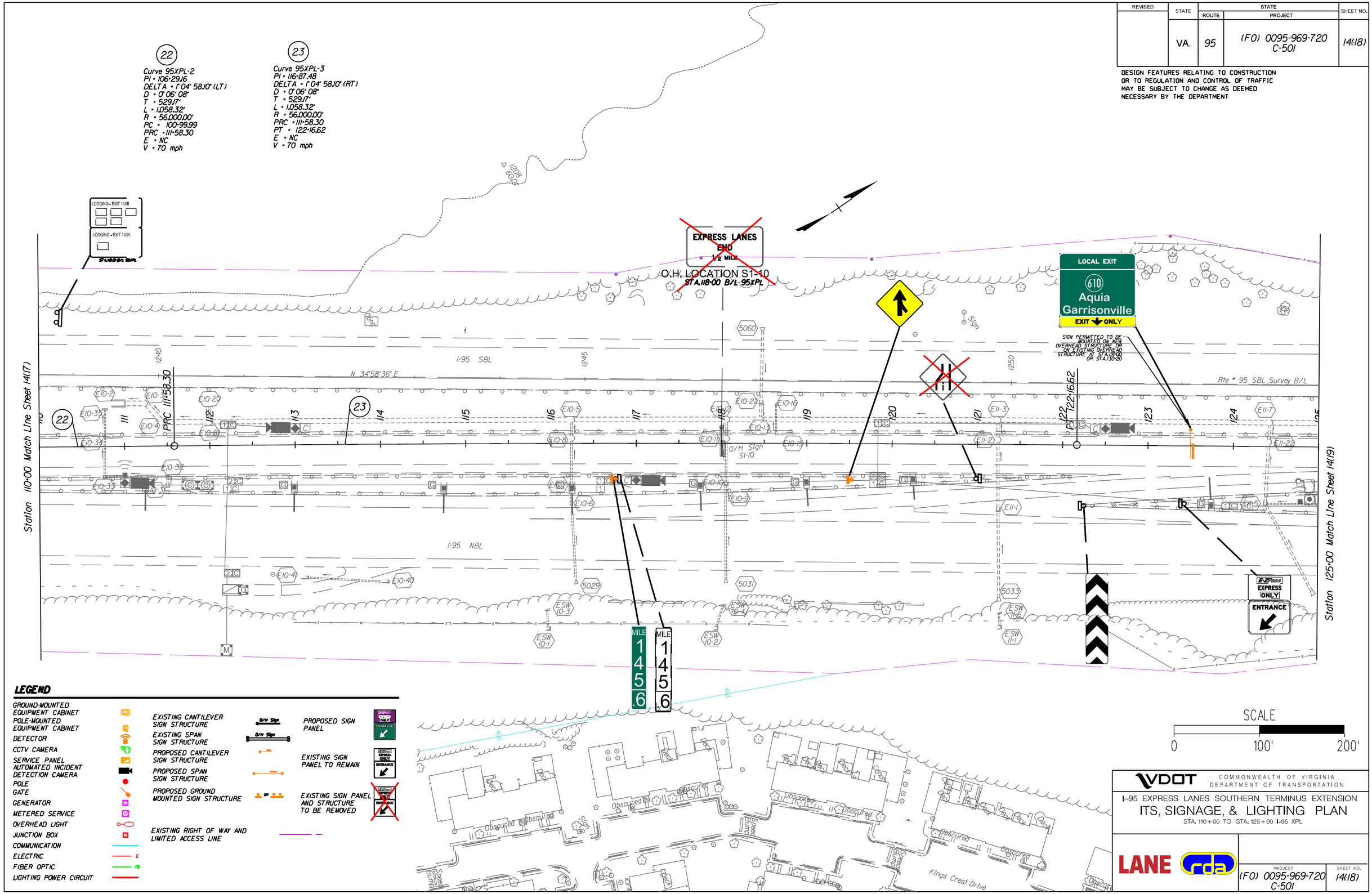
DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT

22

Curve 95XPL-2
PI = 106+29.16
DELTA = 1° 04' 58.10" (LT)
D = 0° 06' 08"
T = 529.17'
L = 1,058.32'
R = 56,000.00'
PC = 100+99.99
PRC = 111+58.30
E = NC
V = 70 mph

23

Curve 95XPL-3
PI = 116+87.48
DELTA = 1° 04' 58.10" (RT)
D = 0° 06' 08"
T = 529.17'
L = 1,058.32'
R = 56,000.00'
PRC = 111+58.30
PT = 122+16.62
E = NC
V = 70 mph



LEGEND

- GROUND-MOUNTED EQUIPMENT CABINET
- POLE-MOUNTED EQUIPMENT CABINET
- DETECTOR
- CCTV CAMERA
- SERVICE PANEL
- AUTOMATED INCIDENT DETECTION CAMERA
- POLE
- GATE
- GENERATOR
- METERED SERVICE
- OVERHEAD LIGHT
- JUNCTION BOX
- COMMUNICATION
- ELECTRIC
- FIBER OPTIC
- LIGHTING POWER CIRCUIT
- EXISTING CANTILEVER SIGN STRUCTURE
- EXISTING SPAN SIGN STRUCTURE
- PROPOSED CANTILEVER SIGN STRUCTURE
- PROPOSED SPAN SIGN STRUCTURE
- PROPOSED GROUND MOUNTED SIGN STRUCTURE
- EXISTING RIGHT OF WAY AND LIMITED ACCESS LINE
- PROPOSED SIGN PANEL
- EXISTING SIGN PANEL TO REMAIN
- EXISTING SIGN PANEL AND STRUCTURE TO BE REMOVED

SCALE
0 100' 200'

VDOT COMMONWEALTH OF VIRGINIA DEPARTMENT OF TRANSPORTATION

I-95 EXPRESS LANES SOUTHERN TERMINUS EXTENSION

ITS, SIGNAGE, & LIGHTING PLAN

STA. 110+00 TO STA. 125+00 I-95 XPL

LANE rda

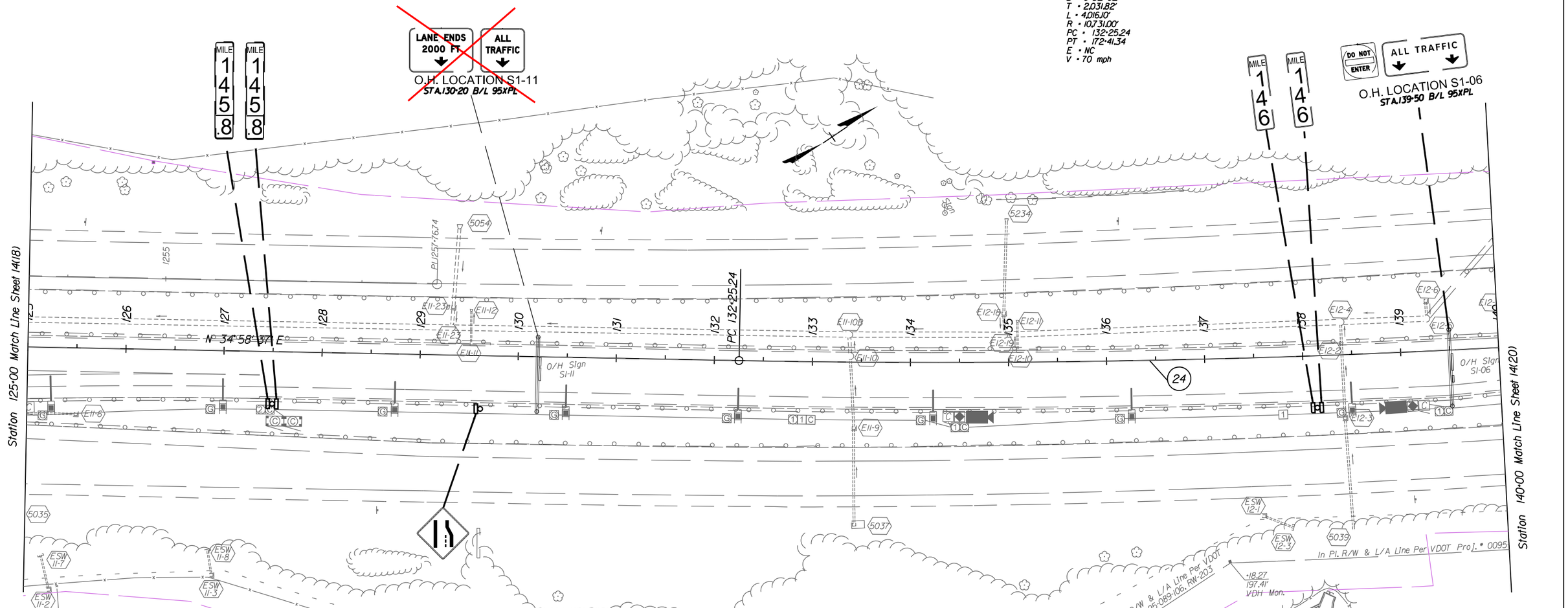
PROJECT	SHEET NO.
(F0) 0095-969-720 C-501	14(18)

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.	95	(F0) 0095-969-720 C-501	14(19)

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

24

Curve 95XPL-4
PI = 152+57.06
DELTA = 21° 26' 34.95" (LT)
D = 0° 32' 02"
T = 2,031.82'
L = 4,016.10'
R = 10,731.00'
PC = 132+25.24
PT = 172+41.34
E = NC
V = 70 mph



LEGEND

- GROUND-MOUNTED EQUIPMENT CABINET
- POLE-MOUNTED EQUIPMENT CABINET
- DETECTOR
- CCTV CAMERA
- SERVICE PANEL
- AUTOMATED INCIDENT DETECTION CAMERA
- POLE
- GATE
- GENERATOR
- METERED SERVICE
- OVERHEAD LIGHT
- JUNCTION BOX
- COMMUNICATION
- ELECTRIC
- FIBER OPTIC
- LIGHTING POWER CIRCUIT
- EXISTING CANTILEVER SIGN STRUCTURE
- EXISTING SPAN SIGN STRUCTURE
- PROPOSED CANTILEVER SIGN STRUCTURE
- PROPOSED SPAN SIGN STRUCTURE
- PROPOSED GROUND MOUNTED SIGN STRUCTURE
- EXISTING RIGHT OF WAY AND LIMITED ACCESS LINE
- PROPOSED SIGN PANEL
- EXISTING SIGN PANEL TO REMAIN
- EXISTING SIGN PANEL AND STRUCTURE TO BE REMOVED

SCALE
0 100' 200'

VDOT COMMONWEALTH OF VIRGINIA DEPARTMENT OF TRANSPORTATION

I-95 EXPRESS LANES SOUTHERN TERMINUS EXTENSION

ITS, SIGNAGE, & LIGHTING PLAN

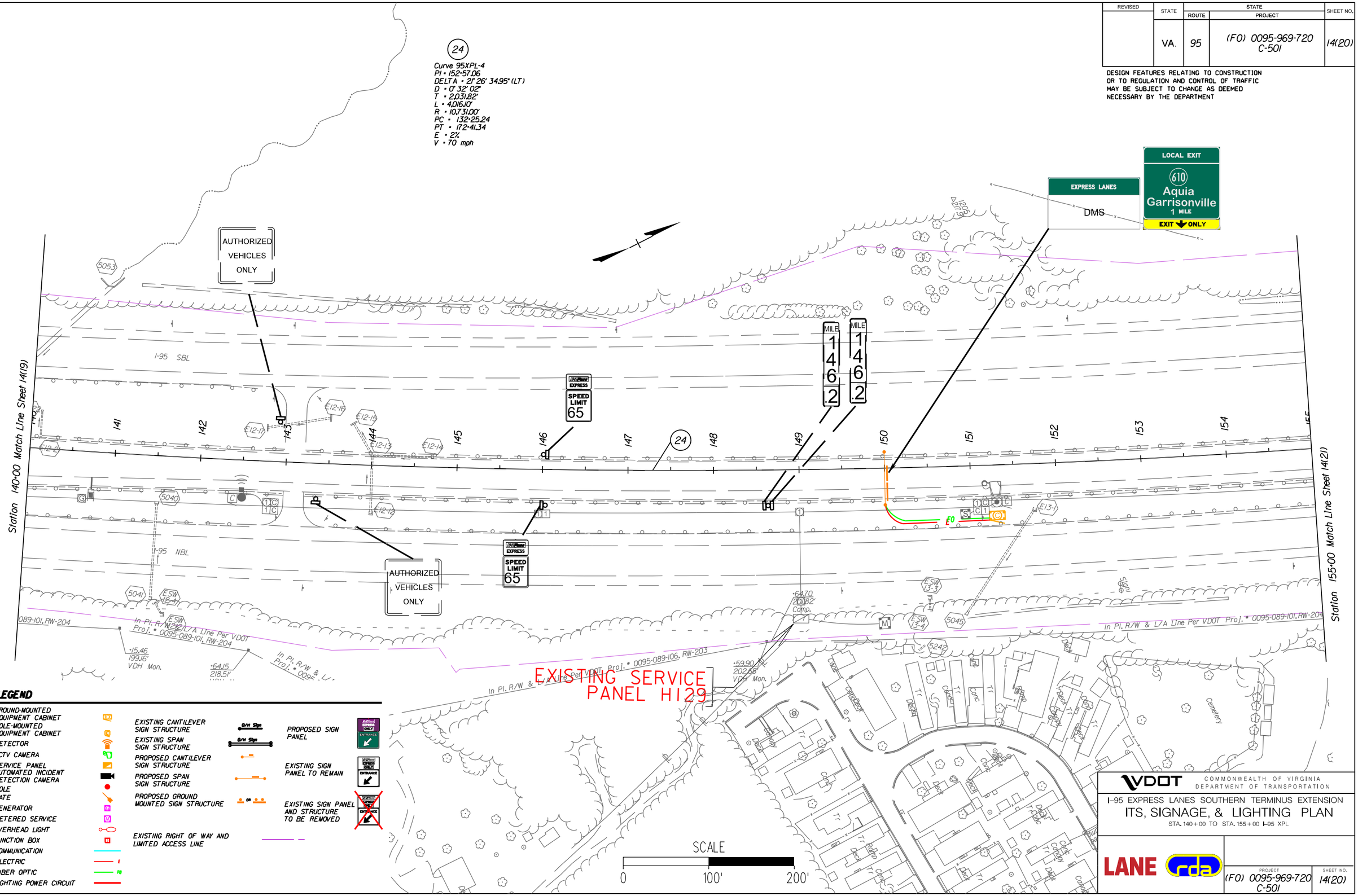
STA. 125+00 TO STA. 140+00 I-95 XPL

LANE rda

PROJECT	SHEET NO.
(F0) 0095-969-720 C-501	14(19)

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.	95	(FO) 0095-969-720 C-501	14(20)

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



LEGEND

- GROUND-MOUNTED EQUIPMENT CABINET
- POLE-MOUNTED EQUIPMENT CABINET
- DETECTOR
- CCTV CAMERA
- SERVICE PANEL
- AUTOMATED INCIDENT DETECTION CAMERA
- POLE
- GATE
- GENERATOR
- METERED SERVICE
- OVERHEAD LIGHT
- JUNCTION BOX
- COMMUNICATION
- ELECTRIC
- FIBER OPTIC
- LIGHTING POWER CIRCUIT
- EXISTING CANTILEVER SIGN STRUCTURE
- EXISTING SPAN SIGN STRUCTURE
- PROPOSED CANTILEVER SIGN STRUCTURE
- PROPOSED SPAN SIGN STRUCTURE
- PROPOSED GROUND MOUNTED SIGN STRUCTURE
- EXISTING RIGHT OF WAY AND LIMITED ACCESS LINE
- PROPOSED SIGN PANEL
- EXISTING SIGN PANEL TO REMAIN
- EXISTING SIGN PANEL AND STRUCTURE TO BE REMOVED

VDOT COMMONWEALTH OF VIRGINIA DEPARTMENT OF TRANSPORTATION

I-95 EXPRESS LANES SOUTHERN TERMINUS EXTENSION

ITS, SIGNAGE, & LIGHTING PLAN

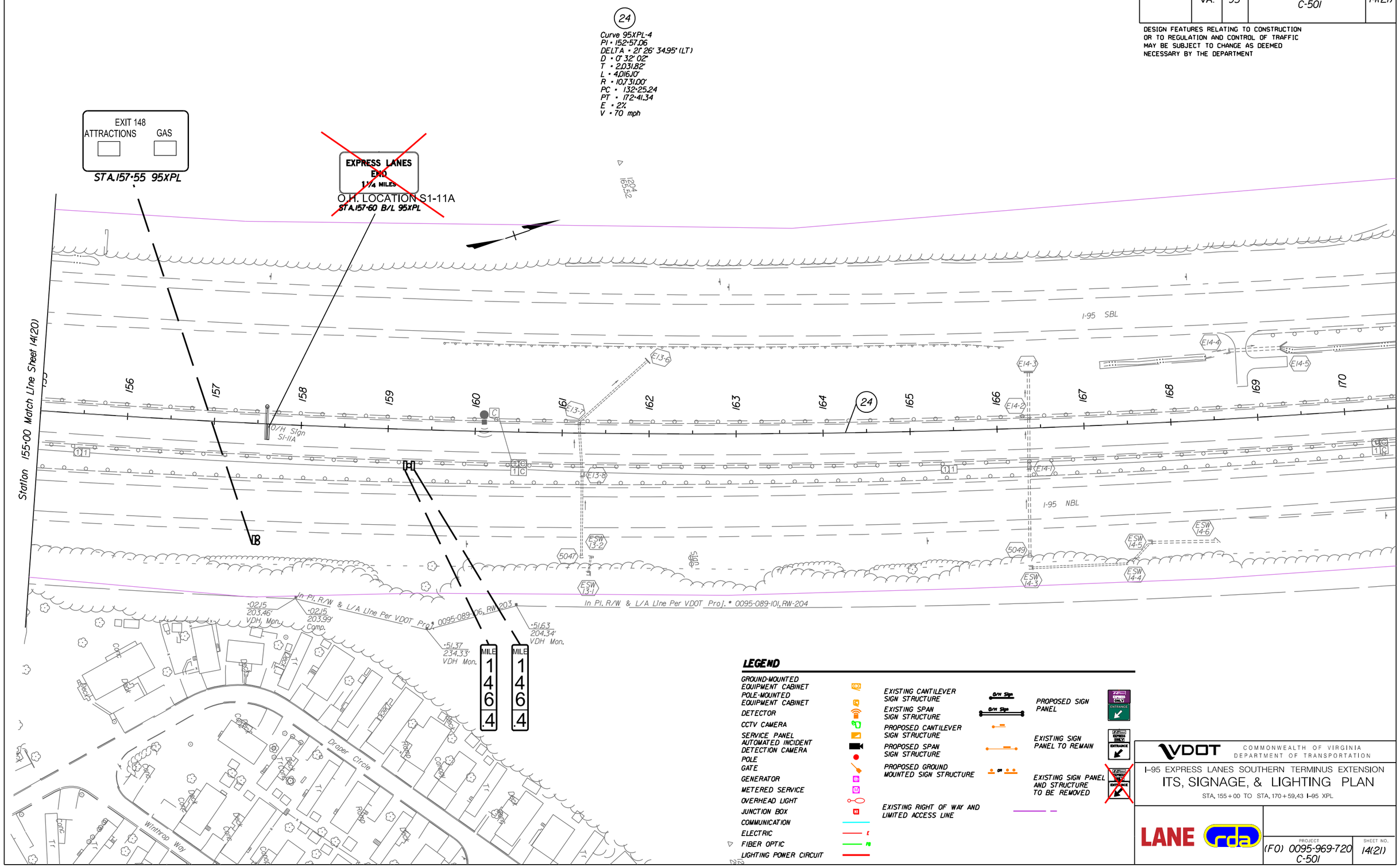
STA. 140+00 TO STA. 155+00 I-95 XPL

LANE rda

PROJECT	SHEET NO.
(FO) 0095-969-720 C-501	14(20)

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.	95	(F0) 0095-969-720 C-501	14(21)

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



VDOT COMMONWEALTH OF VIRGINIA DEPARTMENT OF TRANSPORTATION

I-95 EXPRESS LANES SOUTHERN TERMINUS EXTENSION

ITS, SIGNAGE, & LIGHTING PLAN

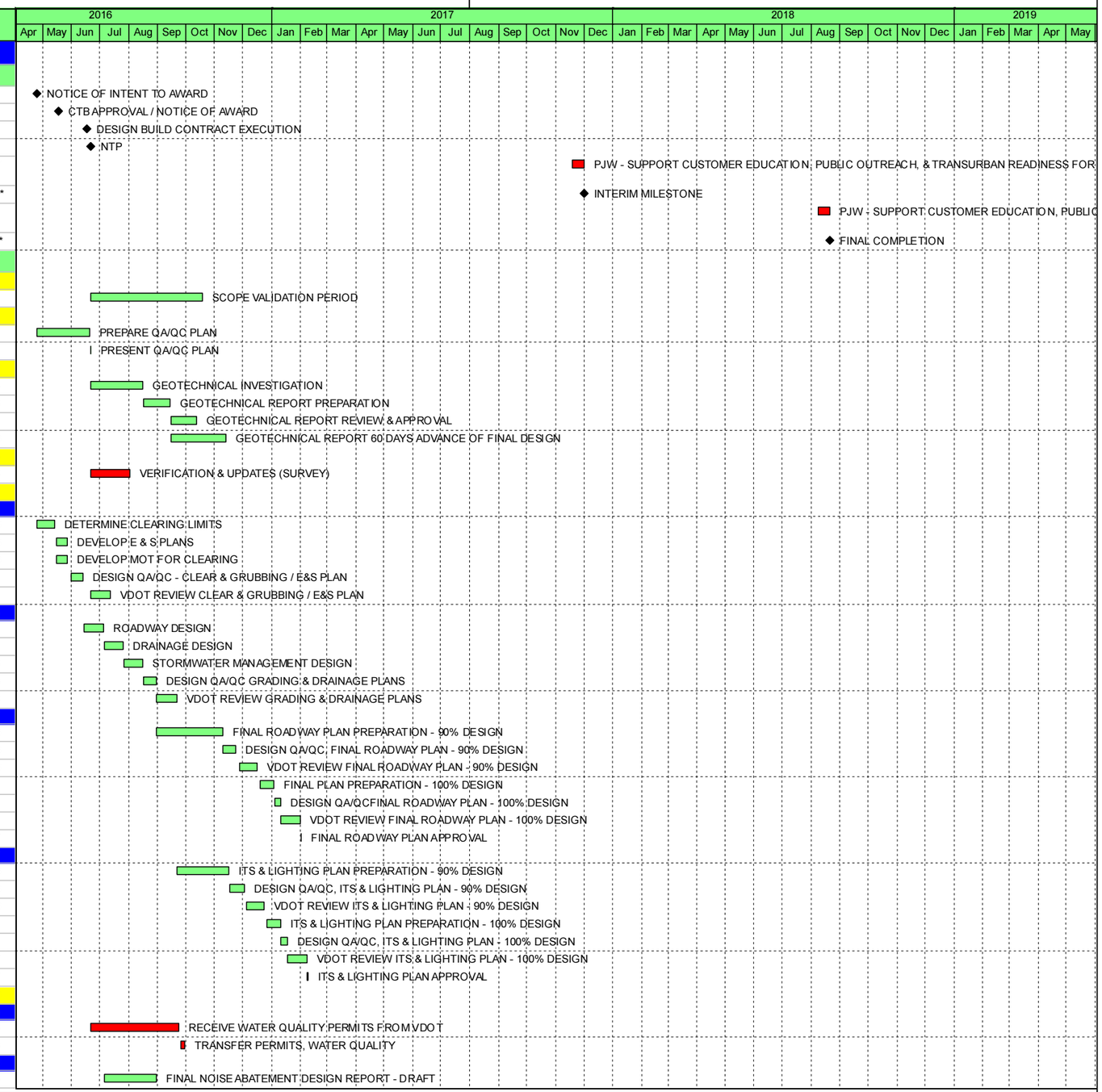
STA. 155+00 TO STA. 170+59.43 I-95 XPL

LANE rda

PROJECT	SHEET NO.
(F0) 0095-969-720 C-501	14(21)

4.2.4.1 PROPOSAL SCHEDULE

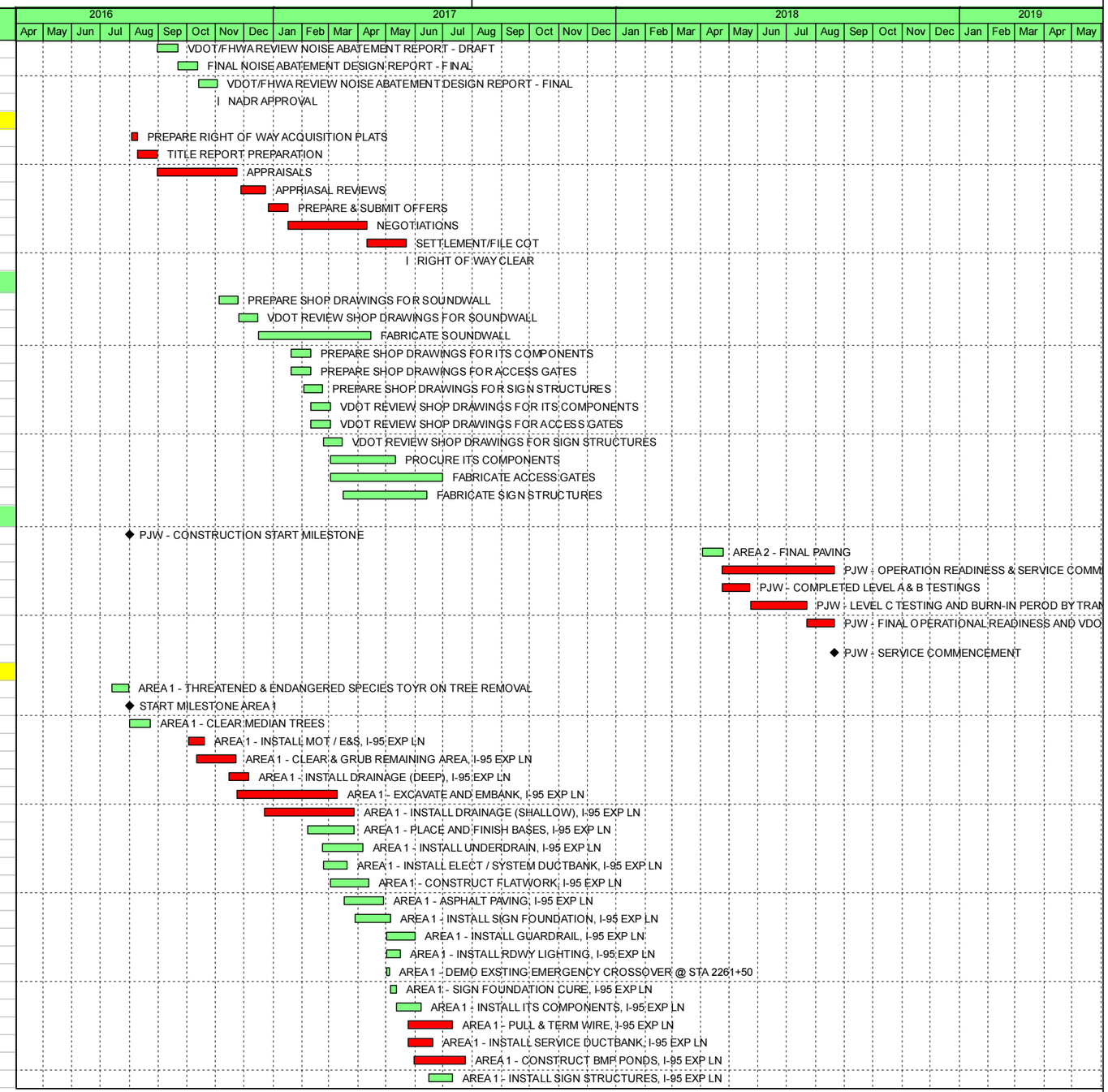
Activity ID	Activity Name	Original Duration	Start	Finish
I-95 Express Lane - South Terminus Extension Proposal Schedule Ver 0		477	25-Apr-16	21-Aug-18
ADMIN		849	25-Apr-16	21-Aug-18
A000-1000	NOTICE OF INTENT TO AWARD	0	25-Apr-16*	
A000-1010	CTB APPROVAL / NOTICE OF AWARD	0	18-May-16*	
A000-1020	DESIGN BUILD CONTRACT EXECUTION	0	17-Jun-16*	
A000-1030	NTP	0	21-Jun-16*	
C302-1070	PJW - SUPPORT CUSTOMER EDUCATION, PUBLIC OUTREACH, & TRANSURBAN READINESS FOR SB OPENING	14	18-Nov-17	01-Dec-17
A000-1060	INTERIM MILESTONE	0		01-Dec-17*
C302-1080	PJW - SUPPORT CUSTOMER EDUCATION, PUBLIC OUTREACH, & TRANSURBAN READINESS FOR NB OPENING	14	08-Aug-18	21-Aug-18
A000-1050	FINAL COMPLETION	0		21-Aug-18*
DESIGN		221	25-Apr-16	23-May-17
SCOPE VALIDATION		120	21-Jun-16	18-Oct-16
D000-1000	SCOPE VALIDATION PERIOD	120	21-Jun-16	18-Oct-16
QC/QA PLAN		32	25-Apr-16	21-Jun-16
D000-1010	PREPARE QA/QC PLAN	40	25-Apr-16	20-Jun-16
D000-1020	PRESENT QA/QC PLAN	1	21-Jun-16	21-Jun-16
GEOTECHNICAL		83	21-Jun-16	13-Nov-16
D100-1000	GEOTECHNICAL INVESTIGATION	40	21-Jun-16	16-Aug-16
D100-1010	GEOTECHNICAL REPORT PREPARATION	20	17-Aug-16	14-Sep-16
D100-1020	GEOTECHNICAL REPORT REVIEW & APPROVAL	20	15-Sep-16	12-Oct-16
D100-1430	GEOTECHNICAL REPORT 60 DAYS ADVANCE OF FINAL DESIGN	60	15-Sep-16	13-Nov-16
SURVEY		30	21-Jun-16	02-Aug-16
D100-1030	VERIFICATION & UPDATES (SURVEY)	30	21-Jun-16	02-Aug-16
ROADWAY DESIGN		201	25-Apr-16	08-Feb-17
CLEARING & GRUBBING/E & S PLANS		55	25-Apr-16	12-Jul-16
D100-1040	DETERMINE CLEARING LIMITS	15	25-Apr-16	13-May-16
D100-1050	DEVELOP E & S PLANS	10	16-May-16	27-May-16
D100-1060	DEVELOP MOT FOR CLEARING	10	16-May-16	27-May-16
D100-1070	DESIGN QA/QC - CLEAR & GRUBBING / E&S PLAN	10	31-May-16	13-Jun-16
D100-1080	VDOT REVIEW CLEAR & GRUBBING / E&S PLAN	15	21-Jun-16	12-Jul-16
GRADING & DRAINAGE PLANS		70	14-Jun-16	21-Sep-16
D100-1090	ROADWAY DESIGN	15	14-Jun-16	05-Jul-16
D100-1100	DRAINAGE DESIGN	15	06-Jul-16	26-Jul-16
D100-1110	STORMWATER MANAGEMENT DESIGN	15	27-Jul-16	16-Aug-16
D100-1120	DESIGN QA/QC GRADING & DRAINAGE PLANS	10	17-Aug-16	30-Aug-16
D100-1130	VDOT REVIEW GRADING & DRAINAGE PLANS	15	31-Aug-16	21-Sep-16
FINAL ROADWAY PLANS		106	31-Aug-16	01-Feb-17
D100-1140	FINAL ROADWAY PLAN PREPARATION - 90% DESIGN	50	31-Aug-16	09-Nov-16
D100-1150	DESIGN QA/QC, FINAL ROADWAY PLAN - 90% DESIGN	10	10-Nov-16	23-Nov-16
D100-1160	VDOT REVIEW FINAL ROADWAY PLAN - 90% DESIGN	15	28-Nov-16	16-Dec-16
D100-1170	FINAL PLAN PREPARATION - 100% DESIGN	10	19-Dec-16	03-Jan-17
D100-1180	DESIGN QA/QCFINAL ROADWAY PLAN - 100% DESIGN	5	04-Jan-17	10-Jan-17
D100-1190	VDOT REVIEW FINAL ROADWAY PLAN - 100% DESIGN	15	11-Jan-17	31-Jan-17
D100-1200	FINAL ROADWAY PLAN APPROVAL	1	01-Feb-17	01-Feb-17
ITS & LIGHTING		96	22-Sep-16	08-Feb-17
D100-1210	ITS & LIGHTING PLAN PREPARATION - 90% DESIGN	40	22-Sep-16	16-Nov-16
D100-1220	DESIGN QA/QC, ITS & LIGHTING PLAN - 90% DESIGN	10	17-Nov-16	02-Dec-16
D100-1230	VDOT REVIEW ITS & LIGHTING PLAN - 90% DESIGN	15	05-Dec-16	23-Dec-16
D100-1240	ITS & LIGHTING PLAN PREPARATION - 100% DESIGN	10	27-Dec-16	10-Jan-17
D100-1250	DESIGN QA/QC, ITS & LIGHTING PLAN - 100% DESIGN	5	11-Jan-17	17-Jan-17
D100-1260	VDOT REVIEW ITS & LIGHTING PLAN - 100% DESIGN	15	18-Jan-17	07-Feb-17
D100-1270	ITS & LIGHTING PLAN APPROVAL	1	08-Feb-17	08-Feb-17
ENVIRONMENTAL		96	21-Jun-16	03-Nov-16
WATER QUALITY PERMITTING		72	21-Jun-16	30-Sep-16
D100-1280	RECEIVE WATER QUALITY PERMITS FROM VDOT	67	21-Jun-16	23-Sep-16
D100-1290	TRANSFER PERMITS, WATER QUALITY	5	26-Sep-16	30-Sep-16
NOISE ANALYSIS		86	06-Jul-16	03-Nov-16
D100-1300	FINAL NOISE ABATEMENT DESIGN REPORT - DRAFT	40	06-Jul-16	30-Aug-16



Remaining Level of Effort | Remaining Work | ◆ Milestone
Actual Work | Critical Remaining Work

LANE

Activity ID	Activity Name	Original Duration	Start	Finish
D100-1310	VDOT/FHWA REVIEW NOISE ABATEMENT REPORT - DRAFT	15	31-Aug-16	21-Sep-16
D100-1320	FINAL NOISE ABATEMENT DESIGN REPORT - FINAL	15	22-Sep-16	12-Oct-16
D100-1330	VDOT/FHWA REVIEW NOISE ABATEMENT DESIGN REPORT - FINAL	15	13-Oct-16	02-Nov-16
D100-1340	NADR APPROVAL	1	03-Nov-16	03-Nov-16
RIGHT OF WAY ACQUISITION (UTILITY EASEMENTS ONLY)		205	03-Aug-16	23-May-17
D100-1350	PREPARE RIGHT OF WAY ACQUISITION PLATS	5	03-Aug-16	09-Aug-16
D100-1360	TITLE REPORT PREPARATION	15	10-Aug-16	30-Aug-16
D100-1370	APPRAISALS	60	31-Aug-16	23-Nov-16
D100-1380	APPRIASAL REVIEWS	20	28-Nov-16	23-Dec-16
D100-1390	PREPARE & SUBMIT OFFERS	14	27-Dec-16	16-Jan-17
D100-1400	NEGOTIATIONS	60	17-Jan-17	10-Apr-17
D100-1410	SETTLEMENT/FILE COT	30	11-Apr-17	22-May-17
D100-1420	RIGHT OF WAY CLEAR	1	23-May-17	23-May-17
PROCUREMENT		239	04-Nov-16	30-Jun-17
P301-1000	PREPARE SHOP DRAWINGS FOR SOUNDWALL	21	04-Nov-16	24-Nov-16
P301-1010	VDOT REVIEW SHOP DRAWINGS FOR SOUNDWALL	21	25-Nov-16	15-Dec-16
P301-1020	FABRICATE SOUNDWALL	120	16-Dec-16	14-Apr-17
P000-1000	PREPARE SHOP DRAWINGS FOR ITS COMPONENTS	21	20-Jan-17	09-Feb-17
P201-1000	PREPARE SHOP DRAWINGS FOR ACCESS GATES	21	20-Jan-17	09-Feb-17
P000-1030	PREPARE SHOP DRAWINGS FOR SIGN STRUCTURES	21	02-Feb-17	22-Feb-17
P000-1010	VDOT REVIEW SHOP DRAWINGS FOR ITS COMPONENTS	21	10-Feb-17	02-Mar-17
P201-1010	VDOT REVIEW SHOP DRAWINGS FOR ACCESS GATES	21	10-Feb-17	02-Mar-17
P000-1040	VDOT REVIEW SHOP DRAWINGS FOR SIGN STRUCTURES	21	23-Feb-17	15-Mar-17
P000-1020	PROCURE ITS COMPONENTS	70	03-Mar-17	11-May-17
P201-1020	FABRICATE ACCESS GATES	120	03-Mar-17	30-Jun-17
P000-1050	FABRICATE SIGN STRUCTURES	90	16-Mar-17	13-Jun-17
CONTRUCTION		433	13-Jul-16	21-Aug-18
C000-1070	PJW - CONSTRUCTION START MILESTONE	0	01-Aug-16	
C000-1060	AREA 2 - FINAL PAVING	12	03-Apr-18	24-Apr-18
C000-1000	PJW - OPERATION READINESS & SERVICE COMMENCEMENT PERIOD	120	24-Apr-18	21-Aug-18
C000-1050	PJW - COMPLETED LEVEL A & B TESTINGS	30	24-Apr-18	23-May-18
C000-1020	PJW - LEVEL C TESTING AND BURN-IN PEROD BY TRANSURBAN	60	24-May-18	22-Jul-18
C000-1040	PJW - FINAL OPERATIONAL READINESS AND VDOT APPROVAL FOR SERVICE COMMENCEMENT	30	23-Jul-18	21-Aug-18
C000-1030	PJW - SERVICE COMMENCEMENT	0		21-Aug-18
I-95 EXPRESS LANE STA 2232+59 to 2309+17		221	13-Jul-16	09-Aug-17
C100-1250	AREA 1 - THREATENED & ENDANGERED SPECIES TOYR ON TREE REMOVAL	19	13-Jul-16	31-Jul-16
C100-1190	START MILESTONE AREA 1	0	01-Aug-16	
C100-1240	AREA 1 - CLEAR MEDIAN TREES	15	01-Aug-16	23-Aug-16
C100-1000	AREA 1 - INSTALL MOT / E&S, I-95 EXP LN	10	03-Oct-16	19-Oct-16
C100-1010	AREA 1 - CLEAR & GRUB REMAINING AREA, I-95 EXP LN	25	11-Oct-16	22-Nov-16
C100-1030	AREA 1 - INSTALL DRAINAGE (DEEP), I-95 EXP LN	12	15-Nov-16	06-Dec-16
C100-1040	AREA 1 - EXCAVATE AND EMBANK, I-95 EXP LN	60	23-Nov-16	10-Mar-17
C100-1220	AREA 1 - INSTALL DRAINAGE (SHALLOW), I-95 EXP LN	55	23-Dec-16	28-Mar-17
C100-1050	AREA 1 - PLACE AND FINISH BASES, I-95 EXP LN	30	07-Feb-17	28-Mar-17
C100-1060	AREA 1 - INSTALL UNDERDRAIN, I-95 EXP LN	26	22-Feb-17	06-Apr-17
C100-1070	AREA 1 - INSTALL ELECT / SYSTEM DUCTBANK, I-95 EXP LN	15	23-Feb-17	20-Mar-17
C100-1080	AREA 1 - CONSTRUCT FLATWORK, I-95 EXP LN	23	03-Mar-17	12-Apr-17
C100-1100	AREA 1 - ASPHALT PAVING, I-95 EXP LN	25	17-Mar-17	28-Apr-17
C100-1090	AREA 1 - INSTALL SIGN FOUNDATION, I-95 EXP LN	22	29-Mar-17	05-May-17
C100-1110	AREA 1 - INSTALL GUARDRAIL, I-95 EXP LN	19	01-May-17	01-Jun-17
C100-1130	AREA 1 - INSTALL RDWY LIGHTING, I-95 EXP LN	10	01-May-17	16-May-17
C100-1260	AREA 1 - DEMO EXSTING EMERGENCY CROSSOVER @ STA 2261+50	3	01-May-17	04-May-17
C100-1230	AREA 1 - SIGN FOUNDATION CURE, I-95 EXP LN	7	06-May-17	12-May-17
C100-1140	AREA 1 - INSTALL ITS COMPONENTS, I-95 EXP LN	15	12-May-17	07-Jun-17
C100-1200	AREA 1 - PULL & TERM WIRE, I-95 EXP LN	25	24-May-17	10-Jul-17
C100-1270	AREA 1 - INSTALL SERVICE DUCTBANK, I-95 EXP LN	15	24-May-17	19-Jun-17
C100-1160	AREA 1 - CONSTRUCT BMP PONDS, I-95 EXP LN	30	31-May-17	24-Jul-17
C100-1150	AREA 1 - INSTALL SIGN STRUCTURES, I-95 EXP LN	13	15-Jun-17	10-Jul-17



Remaining Level of Effort | Remaining Work | ◆ Milestone
Actual Work | Critical Remaining Work

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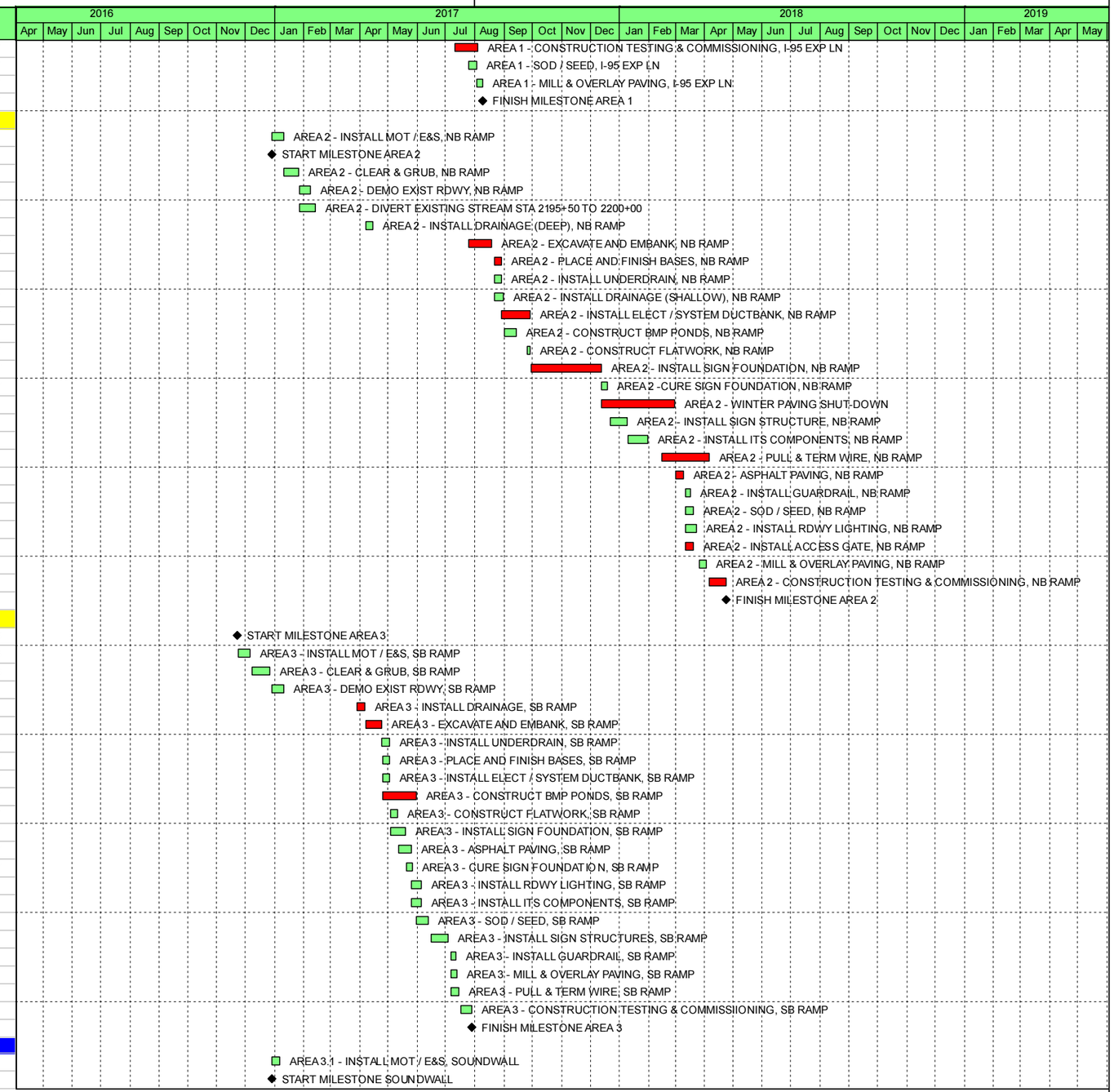
Activity ID	Activity Name	Original Duration	Start	Finish
C100-1210	AREA 1 - CONSTRUCTION TESTING & COMMISSIONING, I-95 EXP LN	15	11-Jul-17	03-Aug-17
C100-1120	AREA 1 - SOD / SEED, I-95 EXP LN	5	25-Jul-17	02-Aug-17
C100-1170	AREA 1 - MILL & OVERLAY PAVING, I-95 EXP LN	5	03-Aug-17	09-Aug-17
C100-1180	FINISH MILESTONE AREA 1	0		09-Aug-17
95 EXT NB RAMP STA 3200+00 to 3232+14		**272**	**29-Dec-16**	**23-Apr-18**
C200-1000	AREA 2 - INSTALL MOT / E&S, NB RAMP	7	29-Dec-16	10-Jan-17
C200-1190	START MILESTONE AREA 2	0	29-Dec-16	
C200-1010	AREA 2 - CLEAR & GRUB, NB RAMP	10	11-Jan-17	26-Jan-17
C200-1020	AREA 2 - DEMO EXIST RDWY, NB RAMP	7	27-Jan-17	07-Feb-17
C200-1260	AREA 2 - DIVERT EXISTING STREAM STA 2195+50 TO 2200+00	10	27-Jan-17	13-Feb-17
C200-1030	AREA 2 - INSTALL DRAINAGE (DEEP), NB RAMP	5	07-Apr-17	14-Apr-17
C200-1040	AREA 2 - EXCAVATE AND EMBANK, NB RAMP	15	25-Jul-17	18-Aug-17
C200-1050	AREA 2 - PLACE AND FINISH BASES, NB RAMP	5	21-Aug-17	28-Aug-17
C200-1060	AREA 2 - INSTALL UNDERDRAIN, NB RAMP	5	21-Aug-17	28-Aug-17
C200-1230	AREA 2 - INSTALL DRAINAGE (SHALLOW), NB RAMP	8	21-Aug-17	31-Aug-17
C200-1070	AREA 2 - INSTALL ELECT / SYSTEM DUCTBANK, NB RAMP	18	29-Aug-17	28-Sep-17
C200-1160	AREA 2 - CONSTRUCT BMP PONDS, NB RAMP	7	01-Sep-17	13-Sep-17
C200-1080	AREA 2 - CONSTRUCT FLATWORK, NB RAMP	3	25-Sep-17	28-Sep-17
C200-1090	AREA 2 - INSTALL SIGN FOUNDATION, NB RAMP	42	29-Sep-17	12-Dec-17
C200-1240	AREA 2 -CURE SIGN FOUNDATION, NB RAMP	7	13-Dec-17	19-Dec-17
C200-1220	AREA 2 - WINTER PAVING SHUT-DOWN	78	13-Dec-17	28-Feb-18
C200-1150	AREA 2 - INSTALL SIGN STRUCTURE, NB RAMP	10	22-Dec-17	08-Jan-18
C200-1140	AREA 2 - INSTALL ITS COMPONENTS, NB RAMP	14	10-Jan-18	31-Jan-18
C200-1200	AREA 2 - PULL & TERM WIRE, NB RAMP	30	14-Feb-18	05-Apr-18
C200-1100	AREA 2 - ASPHALT PAVING, NB RAMP	6	01-Mar-18	09-Mar-18
C200-1110	AREA 2 - INSTALL GUARDRAIL, NB RAMP	4	12-Mar-18	16-Mar-18
C200-1120	AREA 2 - SOD / SEED, NB RAMP	5	12-Mar-18	20-Mar-18
C200-1130	AREA 2 - INSTALL RDWY LIGHTING, NB RAMP	7	12-Mar-18	23-Mar-18
C200-1250	AREA 2 - INSTALL ACCESS GATE, NB RAMP	5	12-Mar-18	20-Mar-18
C200-1170	AREA 2 - MILL & OVERLAY PAVING, NB RAMP	5	26-Mar-18	02-Apr-18
C200-1210	AREA 2 - CONSTRUCTION TESTING & COMMISSIONING, NB RAMP	10	06-Apr-18	23-Apr-18
C200-1180	FINISH MILESTONE AREA 2	0		23-Apr-18
95 EXT SB RAMP STA 2193+00 to 2232+59		**210**	**22-Nov-16**	**01-Dec-17**
C300-1180	START MILESTONE AREA 3	0		22-Nov-16
C300-1000	AREA 3 - INSTALL MOT / E&S, SB RAMP	7	23-Nov-16	06-Dec-16
C300-1010	AREA 3 - CLEAR & GRUB, SB RAMP	10	08-Dec-16	27-Dec-16
C300-1020	AREA 3 - DEMO EXIST RDWY, SB RAMP	7	29-Dec-16	10-Jan-17
C300-1030	AREA 3 - INSTALL DRAINAGE, SB RAMP	5	29-Mar-17	06-Apr-17
C300-1040	AREA 3 - EXCAVATE AND EMBANK, SB RAMP	10	07-Apr-17	24-Apr-17
C300-1060	AREA 3 - INSTALL UNDERDRAIN, SB RAMP	6	24-Apr-17	02-May-17
C300-1050	AREA 3 - PLACE AND FINISH BASES, SB RAMP	5	25-Apr-17	02-May-17
C300-1070	AREA 3 - INSTALL ELECT / SYSTEM DUCTBANK, SB RAMP	5	25-Apr-17	02-May-17
C300-1160	AREA 3 - CONSTRUCT BMP PONDS, SB RAMP	20	25-Apr-17	30-May-17
C300-1080	AREA 3 - CONSTRUCT FLATWORK, SB RAMP	5	04-May-17	11-May-17
C300-1090	AREA 3 - INSTALL SIGN FOUNDATION, SB RAMP	10	04-May-17	19-May-17
C300-1100	AREA 3 - ASPHALT PAVING, SB RAMP	8	12-May-17	25-May-17
C300-1220	AREA 3 - CURE SIGN FOUNDATION, SB RAMP	7	20-May-17	26-May-17
C300-1130	AREA 3 - INSTALL RDWY LIGHTING, SB RAMP	5	26-May-17	05-Jun-17
C300-1140	AREA 3 - INSTALL ITS COMPONENTS, SB RAMP	5	26-May-17	05-Jun-17
C300-1120	AREA 3 - SOD / SEED, SB RAMP	7	31-May-17	12-Jun-17
C300-1150	AREA 3 - INSTALL SIGN STRUCTURES, SB RAMP	10	15-Jun-17	03-Jul-17
C300-1110	AREA 3 - INSTALL GUARDRAIL, SB RAMP	4	06-Jul-17	11-Jul-17
C300-1170	AREA 3 - MILL & OVERLAY PAVING, SB RAMP	5	06-Jul-17	12-Jul-17
C300-1200	AREA 3 - PULL & TERM WIRE, SB RAMP	6	06-Jul-17	14-Jul-17
C300-1210	AREA 3 - CONSTRUCTION TESTING & COMMISSIIONING, SB RAMP	10	17-Jul-17	28-Jul-17
C300-1190	FINISH MILESTONE AREA 3	0		28-Jul-17
95 SB SOUND BARRIER WALL STA 4000+00 to 4042+68		**155**	**29-Dec-16**	**26-Sep-17**
C301-1000	AREA 3.1 - INSTALL MOT / E&S, SOUNDWALL	5	29-Dec-16	06-Jan-17
C301-1060	START MILESTONE SOUNDWALL	0	29-Dec-16	



Remaining Level of Effort | Remaining Work | ◆ Milestone
Actual Work | Critical Remaining Work

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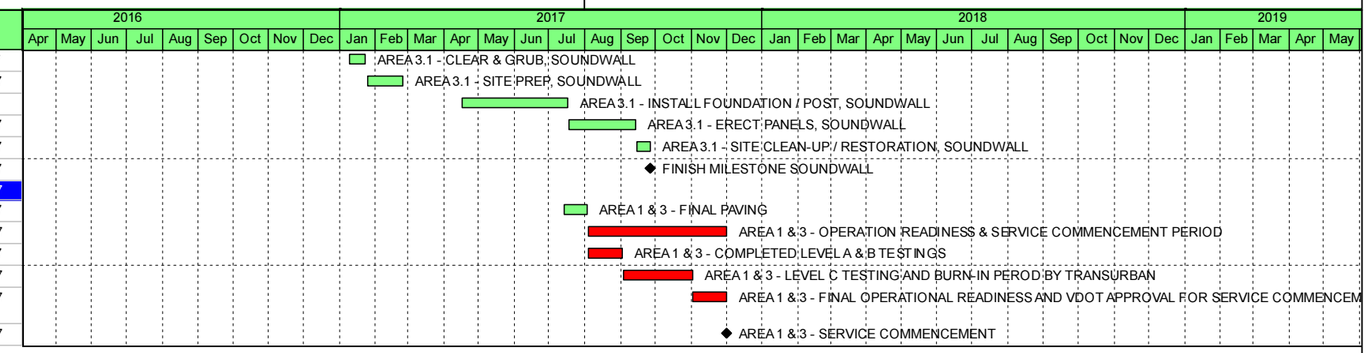
Activity ID	Activity Name	Original Duration	Start	Finish
C301-1010	AREA 3.1 - CLEAR & GRUB, SOUNDWALL	10	09-Jan-17	23-Jan-17
C301-1020	AREA 3.1 - SITE PREP, SOUNDWALL	20	25-Jan-17	24-Feb-17
C301-1030	AREA 3.1 - INSTALL FOUNDATION / POST, SOUNDWALL	50	17-Apr-17	17-Jul-17
C301-1040	AREA 3.1 - ERECT PANELS, SOUNDWALL	35	18-Jul-17	13-Sep-17
C301-1050	AREA 3.1 - SITE CLEAN-UP / RESTORATION, SOUNDWALL	7	15-Sep-17	26-Sep-17
C301-1070	FINISH MILESTONE SOUNDWALL	0		26-Sep-17
SB COMMENCEMENT		**82**	**14-Jul-17**	**01-Dec-17**
C302-1010	AREA 1 & 3 - FINAL PAVING	12	14-Jul-17	02-Aug-17
C302-1020	AREA 1 & 3 - OPERATION READINESS & SERVICE COMMENCEMENT PERIOD	120	04-Aug-17	01-Dec-17
C302-1030	AREA 1 & 3 - COMPLETED LEVEL A & B TESTINGS	30	04-Aug-17	02-Sep-17
C302-1040	AREA 1 & 3 - LEVEL C TESTING AND BURN-IN PEROD BY TRANSURBAN	60	03-Sep-17	01-Nov-17
C302-1050	AREA 1 & 3 - FINAL OPERATIONAL READINESS AND VDOT APPROVAL FOR SERVICE COMMENCEMENT	30	02-Nov-17	01-Dec-17
C302-1060	AREA 1 & 3 - SERVICE COMMENCEMENT	0		01-Dec-17



Remaining Level of Effort | Remaining Work | ◆ Milestone
Actual Work | Critical Remaining Work

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