

LIMITED ACCESS HIGHWAY

By Resolution of State Highway Commission dated October 4, 1956

LIMITED ACCESS HIGHWAY

By Resolution of Commonwealth Transportation Board dated May 17, 2022

FOR INDEX OF SHEETS SEE SHEET 1B

THIS PROJECT WAS DEVELOPED UTILIZING THE DEPARTMENT'S ENGINEERING DESIGN PACKAGE (OPENROADS). VDOT'S Computer Identification No. (115401)

Table of CONVENTIONAL SIGNS including STATE LINE, COUNTY LINE, CITY/TOWN OR VILLAGE, RIGHT OF WAY LINE, FENCE LINE, UNFENCED PROPERTY LINE, FENCED PROPERTY LINE, WATER LINE, SANITARY SEWER LINE, GAS LINE, ELECTRIC UNDERGROUND CABLE, TRAVELED WAY, GUARD RAIL, RETAINING WALL, RAILROADS, BASE OR SURVEY LINE, LEVEE OR EMBANKMENT, BRIDGES, CULVERTS, DROP INLET, POWER POLES, TELEPHONE OR TELEGRAPH POLES, TELEPHONE OR TELEGRAPH LINES, HEDGE, TREES, HEAVY WOODS, GROUND ELEVATION, GRADE ELEVATION.

COMMONWEALTH OF VIRGINIA DEPARTMENT OF TRANSPORTATION

PLAN AND PROFILE OF PROPOSED STATE HIGHWAY DESIGN-BUILD PROJECT I495 EXPRESS LANES (NEXT) FINAL PLAN SUBMITTAL AREA 4

From: South of Existing Express Lanes, Northern Termini To: American Legion Bridge

** Per VDOT's 2020 Daily Traffic Volume Estimates

FHWA-534 DATA 41103

Table with columns: STATE, FEDERAL AID PROJECT, ROUTE, STATE PROJECT, SHEET NO. Values: VA, NHPP-495-5(095), 495, (FO) 0495-029-419, 1 AREA 4

FUNCTIONAL CLASSIFICATION AND TRAFFIC DATA

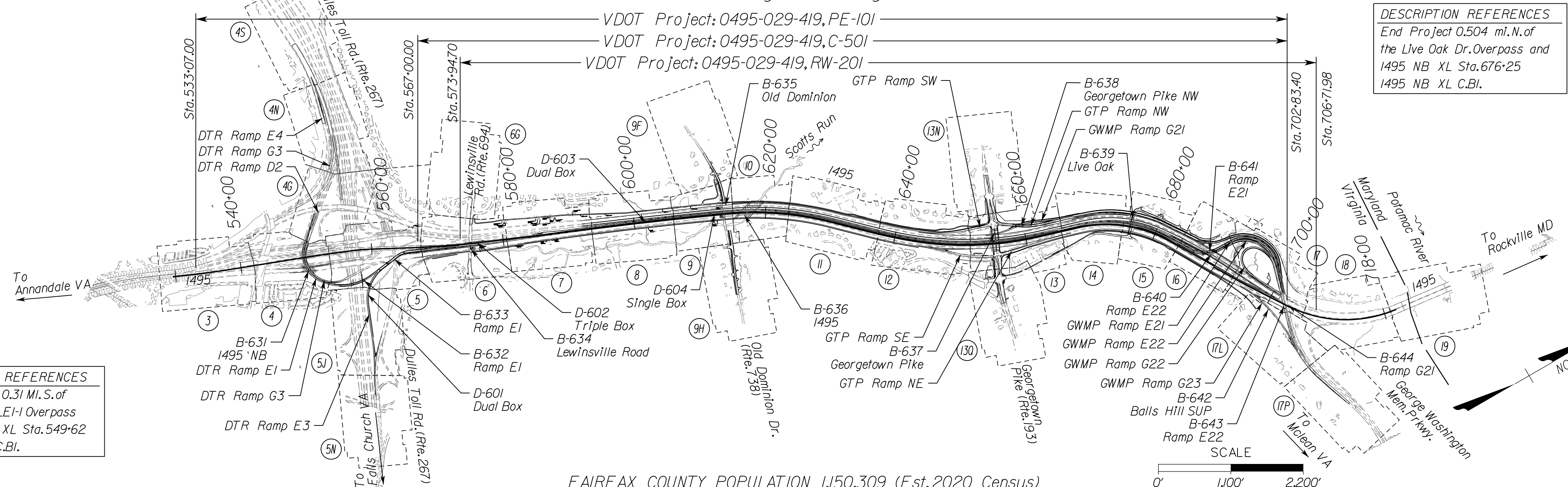
NHS - URBAN INTERSTATE - ROLLING - GS-INT DIVIDED - 60 TO 70 MPH MIN. DESIGN SPEED

Table with columns: Functional Classification and Traffic Data Matrix (This Sheet), 495 EXPRESS LANES, Fr: DULLES TOLL RD.(RTE.267), To: GEORGE WASHINGTON MEMORIAL PKWY., AADT (2020), ADT (2045), DHV, DHV (2045), D (%) (design hour), MIN. VERT CLEAR., V (MPH), DESIGN VEHICLE.

SEE SHEET NO.1A FOR FUNCTIONAL CLASSIFICATION AND TRAFFIC DATA FOR MAINLINE AND CONNECTING ROADS

* See Geometric and Profile Sheets for horizontal and vertical curve design speed data.

NOTE: See Sheet 1A for Design Exceptions



DESCRIPTION REFERENCES End Project 0.504 mi.N. of the Live Oak Dr. Overpass and 1495 NB XL Sta. 676+25 1495 NB XL C.B.I.

DESCRIPTION REFERENCES Begin Project 0.31 Mi.S. of the DTR_RMP_EI-1 Overpass and 1495 NB XL Sta. 549+62 1495 NB XL C.B.I.

FINAL PLANS DECEMBER 2022

FAIRFAX COUNTY POPULATION 1,150,309 (Est.2020 Census)

THE COMPLETE ELECTRONIC PDF VERSION OF THE PLAN ASSEMBLY AS AWARDED HAS BEEN SEALED AND SIGNED USING DIGITAL SIGNATURES AND THE OFFICIAL PLAN ASSEMBLY IN ELECTRONIC FORMAT IS STORED IN THE VDOT CENTRAL OFFICE PLAN LIBRARY...

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

THIS PROJECT IS TO BE CONSTRUCTED IN ACCORDANCE WITH THE DEPARTMENT'S 2020 ROAD AND BRIDGE SPECIFICATIONS, 2016 ROAD AND BRIDGE STANDARDS (REVISED MAY 2020), 2009 MUTCD, 2011 VIRGINIA SUPPLEMENT TO THE MUTCD, 2011 VIRGINIA WORK AREA PROTECTION MANUAL REVISION 2.1, 2020 AND AS AMENDED BY CONTRACT PROVISIONS AND THE COMPLETE ELECTRONIC PDF VERSION OF THE PLAN ASSEMBLY.

ALL CURVES ARE TO BE SUPERELEVATED, TRANSITIONED AND WIDENED IN ACCORDANCE WITH STANDARD TC-5.11R, EXCEPT WHERE OTHERWISE NOTED.

THE ORIGINAL APPROVED TITLE SHEET(S), INCLUDING ORIGINAL SIGNATURES, IS FILED IN THE VDOT CENTRAL OFFICE PLAN LIBRARY. ANY MISUSE OF ELECTRONIC FILES, INCLUDING SCANNED SIGNATURES, IS ILLEGAL AND ENFORCED TO THE FULL EXTENT OF THE LAW.

PROPOSED SWM FACILITY SHALL BE MAINTAINED BY VIRGINIA DEPARTMENT OF TRANSPORTATION.

Main project data table with columns: STATE PROJECT NO., SECTION, FEDERAL AID PROJECT NO., TYPE CODE, UPC NO., LENGTH INCLUDING BRIDGE(S) FEET/MILES, LENGTH EXCLUDING BRIDGE(S) FEET/MILES, TYPE PROJECT, CONSTRUCTION BASELINE, DESCRIPTION.

Approval table with columns: RECOMMENDED FOR APPROVAL FOR CONSTRUCTION, REVISIONS, APPROVED FOR CONSTRUCTION. Includes fields for DATE, DESIGN-BUILD FIRM DESIGN MANAGER, DESIGN-BUILD FIRM PROJECT MANAGER, VDOT PROJECT MANAGER, VDOT DISTRICT CONSTRUCTION ENGINEER OR PPTA PROGRAM MANAGER, CHIEF ENGINEER.

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APPROVED FOR CONSTRUCTION

NOVA DISTRICT

PROJECT MANAGER VDOT - Rupal Shah, PE, (703) 259-2362
 SURVEYED BY, DATE RDA - Nicholas Kougoullis, LS, (703) 334-0837, 12/2021
 DESIGN BY RDA - Darrell Fischer, PE, (703) 334-0823
 Dewberry - Ron Jakomlitch, PE, (703) 849-0651
 SUBSURFACE UTILITY BY, DATE Accumark - Michael Taylor, LS, (703) 635-3060, 12/2021

DESIGN EXCEPTIONS FOR PROJECT					
IDENTIFICATION NO.	AREA	LOCATION	DESIGN SPEED (MPH)	REASONS FOR EXCEPTION	APPROVAL DATE
DE-B1	1	I-495 BRIDGE OVER DTR RAMP E1/G3 I-495 GP NB Sta. 1053+00 to 1054+50	60 MPH	SUPERELEVATION	10/17/2022
DE-B2	3	I-495 BRIDGE OVER SCOTTS RUN I-495 XL NB Sta. 611+00 to Sta. 628+32	70 MPH	SUPERELEVATION	10/17/2022
DE-B3	2	LEWINSVILLE ROAD BRIDGE OVER I-495 Sta. 13+14 to Sta. 17+77	40 MPH	CURB HEIGHT AND PARAPET TYPE	8/8/2022
DE-I	1	DTR RAMP E1/DTR RAMP E3 DTR RAMP E1 Sta. 40+00 to 42+25	30 MPH	LENGTH OF RAMP	-
DE-P	4	I-495 NB Sta. 709+00 to 718+00 GWMP Ramp E22 Sta. 7+80 to 11+50	30 MPH	SHOULDER WIDTH	-
DE-O	1	DTR RAMP E1 Sta. 18+60 to Sta. 22+30	30 MPH	SHOULDER WIDTH	-
DE-W	2	I-495 NB XL Sta. 573+50 to 576+50	70 MPH	SHOULDER WIDTH	-

PROJECT LOCATION MAP

FAIRFAX COUNTY

REVISED	STATE	ROUTE	STATE	VDOT PROJECT NO.	SHEET NO.
	VA.	495		0495-029-419 C501 RW201	1A AREA 4

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



FUNCTIONAL CLASSIFICATION AND TRAFFIC DATA											
	495 EXPRESS LANES	495 EXPRESS LANES	INTERSTATE 495 GENERAL PURPOSE LANES	VA ROUTE 267 DULLES TOLL ROAD	VA ROUTE 193 GEORGETOWN PIKE	GEORGE WASHINGTON MEMORIAL PARKWAY	VA ROUTE 694 LEWINSVILLE ROAD	VA ROUTE 738 OLD DOMINION DRIVE	LIVE OAK DRIVE/BALLS HILL ROAD	INTERCHANGE RAMPS (UNLESS OTHERWISE NOTED)	INTERCHANGE RAMP G22
FROM:	VA RTE 267 DULLES TOLL ROAD	GEORGETOWN PIKE	VA RTE 267 DULLES TOLL ROAD	0.66 MI. WEST OF I-495 NB GP	0.15 MI. WEST OF I-495	I-495	0.12 MI. WEST OF I-495	0.22 MI. WEST OF I-495	BALLS HILL ROAD	N/A	N/A
TO:	GEORGETOWN PIKE	GEORGE WASHINGTON MEMORIAL PARKWAY	GEORGE WASHINGTON MEMORIAL PARKWAY	0.17 MI. WEST OF I-495 NB GP	0.16 MI. EAST OF I-495	0.35 MI. EAST OF I-495	0.08 MI. EAST OF I-495	0.24 MI. EAST OF I-495	0.34 MI. WEST OF BALLS HILL ROAD	N/A	N/A
FUNCTIONAL CLASSIFICATION	URBAN INTERSTATE	URBAN INTERSTATE	URBAN INTERSTATE	FREEWAY DIVIDED	URBAN MINOR ARTERIAL	NPS CLASS VII URBAN PARKWAY	URBAN MINOR ARTERIAL	URBAN MINOR ARTERIAL	URBAN LOCAL ROAD	INTERCHANGE RAMP	INTERCHANGE RAMP
TERRAIN	ROLLING	ROLLING	ROLLING	ROLLING	ROLLING	ROLLING	ROLLING	ROLLING	ROLLING	ROLLING	ROLLING
MIN. DESIGN SPEED	70 MPH	60 MPH	60 MPH	60 MPH	60 MPH	60 MPH	45 MPH	45 MPH	25 MPH	30 MPH	25 MPH
** AADT (2020)	16,200	16,200	148,000	82,000	16,000	53,000	13,000	5,500	140		
ADT (2045)	76,800	76,800	239,300	164,700	30,000	66,900	12,200	465			
DHV	6,600	6,600	15,600	13,000	2,500	5,500	1,200	65			
D (%) (design hour)	53%	53%	56%	59%	57%	53%	52%	71%	70%		
T (%) (design hour)	3%	3%	3%	2%	1%	0%	1%	1%	1%		
V (MPH)	*	*	*	*	*	*	*	*	*	*	*
TC STD.	TC-5JIR	TC-5JIR	TC-5JIR	TC-5JIR	TC-5JIU	TC-5JIR	TC-5JIU	TC-5JIU	TC-5JIU/ULS	TC-5JIR	TC-5JIR
MINIMUM VERTICAL CLEARANCE	16'-6"	16'-6"	16'-6"	16'-6"	16'-6"	16'-6"	16'-6"	16'-6"	16'-6"	16'-6"	16'-6"
GEOMETRIC STD.	GS-INT	GS-INT	GS-INT	GS-5	GS-6	NPS	GS-6	GS-6	GS-8	GS-R	GS-R

* See Geometric Plan and Profile Sheets for horizontal and vertical curve design speeds.

** Per VDOT's 2020 Daily Traffic Volume Estimates



VDOT PROJECT NO. 0495-029-419	SHEET NO. 1A AREA 4
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APPROVED FOR CONSTRUCTION

NOVA DISTRICT

PROJECT MANAGER VDOT - Rtmapl-Shah, PE, (703) 259-2362
SURVEYED BY, DATE RDA - Nicholas, Kaugaulis, LS, (703) 334-0837, 12/2021
DESIGN BY RDA - Darrell, Fischer, PE, (703) 334-0823
SUBSURFACE UTILITY BY, DATE Accurmark - Michael, Taylor, LS, (703) 635-3060, 12/2021

Project Index of Sheets

INDEX OF SHEETS

INDEX OF SHEETS

INDEX OF SHEETS

Table with columns: SHEET NO., DESCRIPTION OF SHEETS. Lists sheets 1 through 191 with descriptions such as 'Temporary Traffic Control Plans Phase IA', 'Storm Sewer Profiles', etc.

Table with columns: SHEET NO., DESCRIPTION OF SHEETS. Lists sheets 2 through 217 with descriptions such as 'Typical Sections (Mainline)', 'Typical Sections (Connections)', 'Median Barrier Summary', etc.

Table with columns: SHEET NO., DESCRIPTION OF SHEETS. Lists sheets 218 through 178 with descriptions such as 'Storm Sewer Profiles', 'Stormwater Management Facility Plan', 'AutoTurn Legend & Notes', etc.

Table with columns: REVISION, STATE, ROUTE, VDOT PROJECT NO., SHEET NO. Contains information for VA, 495, 0495-029-419 C501 RW201, and AREA 4.

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

NOVA DISTRICT

10/28/2022

APPROVED FOR CONSTRUCTION

PROJECT MANAGER_VDOT - Bipal,Shob,PE,(703) 259-2362
SURVEYED BY, DATE_BDA - Nicholas, Kouggoullis,LS,(703) 334-0837,1/2019
DESIGN BY_BDA - Darrell, Elischer, PE,(703) 334-0823
SUBSURFACE UTILITY BY, DATE_Accumark - Mitchell,Taylor,LS,(703) 635-3060,12/2021

Right of Way Data Sheet
Area 1 thru Area 4

Table with columns: REVISED (RW001, RW002), STATE (VA), ROUTE (495), STATE (VA), VDOT PROJECT NO. (0495-029-419 C501 RW201), SHEET NO. (IC AREA 4)

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

City/County: Fairfax County, Virginia
UPC No.: 115401

Main data table with columns: PROJECT ASSIGNED PARCEL NO., LANDOWNER, PROJECT LOCATION, PLAN SHEET NO., TOTAL (ACRES), FEE TAKING (SQ.FT.), PRESCRIPTIVE R/W (SQ.FT.), FEE REMAINDER (ACRES), PERMANENT (DRAINAGE, DRAIN.SLOPE, DRAIN.WALL, SLOPE, WALL), EASEMENT (VDOT Utility, Dom.VZLN, VDOT Utility, Dom.Energy Utility, Dom.VDOT Utility), TEMPORARY CONSTRUCTION (SLOPES, ENTRANCES & PARKING LOTS), PROFFERS YES / NO, FAIRFAX TAX MAP ID

NOVA DISTRICT

VDOT PROJECT NO. 0495-029-419 SHEET NO. IC AREA 4

APP. FOR ROW

PROJECT MANAGER_VDOT - RitaPal-Straub, PE, (703) 259-2362
SURVEYED BY, DATE_RDA - Nicholas Kougaull's LS (703) 334-0837, 1/2019
DESIGN BY_RDA - Darrell Fischer PE, (703) 334-0823
SUBSURFACE UTILITY BY, DATE_Accumark - Michael Taylor LS (703) 635-3060, 12/2021

Demolition Summary

AI-A4

REVISED	STATE	ROUTE	STATE	VDOT PROJECT NO.	SHEET NO.
	VA	495		0495-029-419 C501 RW201	IC(1) AREA 4

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

PROJECT NUMBER 0495-029-419, C-501

SHEET NUMBER	PARCEL NUMBER	DEMOLITION NUMBER	LANDOWNER	STATION Rt. OR Lt.	DESCRIPTION	INCLUDED IN CONTRACT						NOT IN CONTRACT ITEMS TO BE REMOVED BY OTHERS	
						DEMOLITION OF LIGHTS	DEMOLITION OF BUILDINGS *	CLEARING OF PARCEL	DEMOLITION OF SIGN	DEMOLITION OF MAILBOX	UNDERGROUND STORAGE TANK REMOVAL		
											TYPE A		TYPE B
EACH	LUMP SUM	LUMP SUM	EACH	EACH	EACH	EACH							
6	090	D-900	7601 LEWINSVILLE ROAD OFFICE CONDOMINIUM ASSOCIATION	10+75 LT	SIGN				/				
9F	064	D-904	WILLIAM R.CHARYK & CHOON L.CHARYK	14+16 RT	MAILBOX				/				
9F	064	D-905	WILLIAM R.CHARYK & CHOON L.CHARYK	14+45 RT	MAILBOX				/				
9F	066	D-906	SUSSAN BOOTH CASSIDY & JAMES JOSEPH CASSIDY	15+94 RT	MAILBOX				/				
9F	066	D-907	SUSSAN BOOTH CASSIDY & JAMES JOSEPH CASSIDY	16+54 RT	MAILBOX				/				
9H	011	D-908	PATRICK O.MCGAREY & BARBARA M.MCGAREY	29+53 RT	MAILBOX				/				
9H	010	D-909	SEDELTA D.VERBLE & GHAREMON SULEYMON	31+45 RT	MAILBOX				/				
9H	-	D-910	ROYAL EMBASSY OF SAUDIA ARABIA	32+28 RT	MAILBOX				/				
9H	-	D-911	CHANG UK YI & NEGAR S.TEHRANI	33+70 RT	MAILBOX				/				
15	081	D-013	LANGLEY CLUB, INC.	13+57 LT	SIGN				/				
15	081	D-014	LANGLEY CLUB, INC.	13+77 LT	SIGN				/				
15	089	D-015	APRIL GEORGELAS	16+58 LT	MAILBOX				/				
16	089	D-016	APRIL GEORGELAS	18+55 LT	SIGN				/				
9H	010	D-017	SEDELTA D.VERBLE & GHAREMON SULEYMON	31+04 LT & 31+26 LT	LIGHT POLES	2			/				
15	079	D-018	FAIRFAX COUNTY PARK AUTHORITY	10+00 LT	SIGN				/				

VDOT PROJECT NO.
0495-029-419
SHEET NO.
IC(1)
AREA 4

APP. FOR ROW

NOVA DISTRICT

PROJECT MANAGER_VDOT - Bitpal,Shah,PE,(703) 259-2362
 SURVEYED BY, DATE_BDA - Nicholas, Kougnoullis,LS,(703) 334-0837,12/22/2021
 DESIGN BY_BDA - Darrell Elischer, PE,(703) 334-0823
 Dewberry - Ron Jakamatach, PE,(703) 849-0651
 SUBSURFACE UTILITY BY, DATE_Accumark - Michele Taylor,LS,(703) 635-3060,12/22/2021

Revision Data Sheet

REVISED	STATE	ROUTE	STATE	VDOT PROJECT NO.	SHEET NO.
	VA.	495			
				0495-029-419 C501 RW201	ID AREA 4

State Project: 0495-029-419, C-501, RW201
Federal Project: NHPP-495-5(095)
From: South of Existing Express Lanes,Northern Termini
To: American Legion Bridge
UPC Number: 115401

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

REVISED August 30, 2022 - Right of Way Revision 001 Project 0495-029-419,RW-201
 PENDING APPROVAL
 This revision was made to update easements per coordination with the Utility Companies, plan changes per VDOT comments, and title report updates. The revision is as follows:
 Sheet IC, I5rw, I6rw, I7rw:
 Revised Parcel 001 VDOT Utility Easement from 0 SF to 553 SF.
 Revised Parcel 002 VDOT Utility Easement from 0 SF to 3,109 SF.
 Revised Parcel 011 VDOT Utility Easement from 1,404 SF to 0 SF.
 Revised Parcel 034 Drainage Easement from 2,711 SF to 2,702 SF and TCE for Slopes from 1,997 SF to 2,006 SF.
 Revised Parcel 035 Perm.Drainage Ease.from 2,577 SF to 2,798 SF and TCE for slopes from 222 SF to 0 SF.
 Revised Parcel 036 Perm.Drainage Ease.from 1,953 SF to 2,387 SF and TCE for slopes from 1,706 SF to 1,272 SF.
 Revised Parcel 041 VDOT Utility Easement from 8,404 SF to 0 SF and TCE for slopes from 454 SF to 0 SF.
 Revised Parcel 044 TCE for slopes from 2,714 SF to 508 SF.
 Revised Parcel 054 VDOT Utility Easement from 3,267 SF to 0 SF and Dominion Energy Utility Easement from 0 SF to 1,166 SF.
 Revised Parcel 056 VDOT Utility Easement from 678 SF to 0 SF and TCE for slopes from 12,357 SF to 10,468 SF.
 Revised Parcel 057 VDOT Utility Easement from 257 SF to 0 SF and TCE for slopes from 572 SF to 85 SF.
 Revised Parcel 059 VDOT Utility Easement from 86 SF to 0 SF; Dominion Energy Utility Easement from 0 SF to 936 SF; and Perm.Drainage Easement from 643 SF to 782 SF.
 Revised Parcel 065 VDOT Utility Easement from 315 SF to 455 SF; Drainage & Slope Easement from 14,395 SF to 14,847 SF; TCE for slopes from 453 SF to 0 SF; and TCE for Entrance from 266 SF to 195 SF.
 Revised Parcel 066 VDOT Utility Easement from 1,378 SF to 0 SF and Dominion Energy Utility Easement from 0 SF to 3,005 SF.
 Revised Parcel 067 VDOT Utility Easement from 4,337 SF to 0 SF and Dominion Energy Utility Easement from 0 SF to 1,031 SF.
 Revised Parcel 069 TCE for Slopes from 607 SF to 609 SF.
 Revised Parcel 071 Fee Taking from 2,306 SF to 2,333 SF and Perm.Drainage and Wall Ease.from 2,093 SF to 2,066 SF.
 Added Parcel 072 VDOT Utility Easement from 0 SF to 206 SF.
 Revised Parcel 073 VDOT Utility Easement from 8,108 SF to 0 SF and Dominion Energy Utility Easement from 0 SF to 5,941 SF.
 Revised Parcel 074 VDOT Utility Easement from 4,279 SF to 0 SF and SF Dominion Utility Easement from 0 SF to 3,049 SF.
 Revised Parcel 075 Fee Taking from 32,648 SF to 32,650 SF; VDOT Utility Easement from 6,104 SF to 0 SF; Dominion Energy Utility Easement from 0 SF to 1,382 SF; and TCE for slopes from 8,914 SF to 8,926 SF.
 Revised Parcel 079 Fee Taking from 28,635 SF to 28,603; Drainage Easement from 2,109 SF to 2,145 SF; Drainage and Wall Easement from 6,694 SF to 6,708 SF, and TCE for Slopes from 19,117 SF to 19,568 SF.
 Revised Parcel 081 VDOT Utility Easement from 3,767 SF to 4,098 SF.
 Revised Parcel 082 VDOT Utility Easement from 253 SF to 344 SF.
 Revised Parcel 089 VDOT Utility Easement from 251 SF to 385 SF.
 Revised Parcel 090 to provide 283 SF of PDE and 595 SF of TCE for Entrances and Parking Lots per survey updates reflecting existing R/W and Easements.
 Revised Parcel 001 Landowner Name from Ali-Reza Nouri-Mesbahi & Anastasia Shishkina to Ali-Reza Nouri-Mesbahi & Anastasia Shishkina, Trustees
 Revised Parcel 002 Landowner Name from Yi Guo & Jiahua Kong to Yi Guo & Jiahua Kong, Trustees
 Revised Parcel 066 Landowner Name from Susan Booth Cassidy & James Joseph Cassidy to Susan Booth Cassidy & James Joseph Cassidy, Jr.

Sheet IC & I5RW: Revised Parcel 079 Permanent Drainage Easement from 2,145 SF to 8,857 SF, Permanent Drainage Wall Easement from 6,708 SF to 12,597 SF, and Temporary Construction Easement from 19,568 SF to 7,174 SF.

REVISED October 14, 2022 - Right of Way Revision 002 Project 0495-029-419,RW-201
 PENDING APPROVAL
 This revision was made to update easements per coordination with the Utility Companies, title report updates, and design/TMP adjustments. The revision is as follows:
 Sheet IC and I6RW: Revised Parcel 032 Landowner Name from Ping Zhou & Hengxiang Yang to Hengxiang Yang & Ping Zhou, Co-Trustees and Deed Book and Page Number to DB 27731, PG 1473.
 Sheet IC: Revised Parcel 060 Landowner Name from Susan A. Holley & Robert R. Thomas to Olivia Zalya.
 Sheet IC, I6RW, & I7RW: Revised Parcel 035 Landowner Name from Labib J. Chammas, Trustee to Labib Joseph Chammas & Judith Ann Chammas, Trustees.
 Sheet IC: Revised Parcel 072 VDOT Utility Easement from 206 SF to 0 SF; Dominion Energy Utility Easement from 0 SF to 206 SF.
 Sheet IC: Revised Parcel 066 Dominion Energy Utility Easement from 3,005 SF to 3,314 SF.
 Sheet IC: Revised Parcel 067 Dominion Energy Utility Easement from 1,031 SF to 871 SF.
 Sheet IC: Revised Parcel 028 Dominion Energy & VDOT Utility Easement from 0 SF to 3,239 SF.

I5RW: Easement labels have been added per VDOT request.
 I6RW: Easement labels have been added per VDOT request.
 I7RW: Easement labels have been added per VDOT request.
 I7LRW: Easement labels have been added per VDOT request.

NOVA DISTRICT

\$TIME\$STAMP\$

VDOT PROJECT NO. 0495-029-419	SHEET NO. ID AREA 4
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APPROVED FOR CONSTRUCTION

PROJECT MANAGER VDOT - Rinaldi, S. PE, (703) 259-2362
SURVEYED BY, DATE RDA - Nicholas Kougoulis, LS, (703) 334-0837, 12/2021
DESIGN BY RDA - Darrell Fischer, PE, (703) 334-0823
SUBSURFACE UTILITY BY, DATE Accumark - Michael Taylor, LS, (703) 635-3060, 12/2021

Survey Traverse Control

Table with columns: REVISED, STATE, ROUTE, STATE, VDOT PROJECT NO., SHEET NO. Values: VA, 495, 0495-029-419 C501 RW201, IF AREA 4

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

Virginia Department of Transportation Horizontal Control. Control Station I.D.: 500 Date: 10-19-2021. VDOT Project Coordinates (Legacy) East (X): 3648978.128 ft, North (Y): 464554.292 ft, Elevation: 286.93 ft.

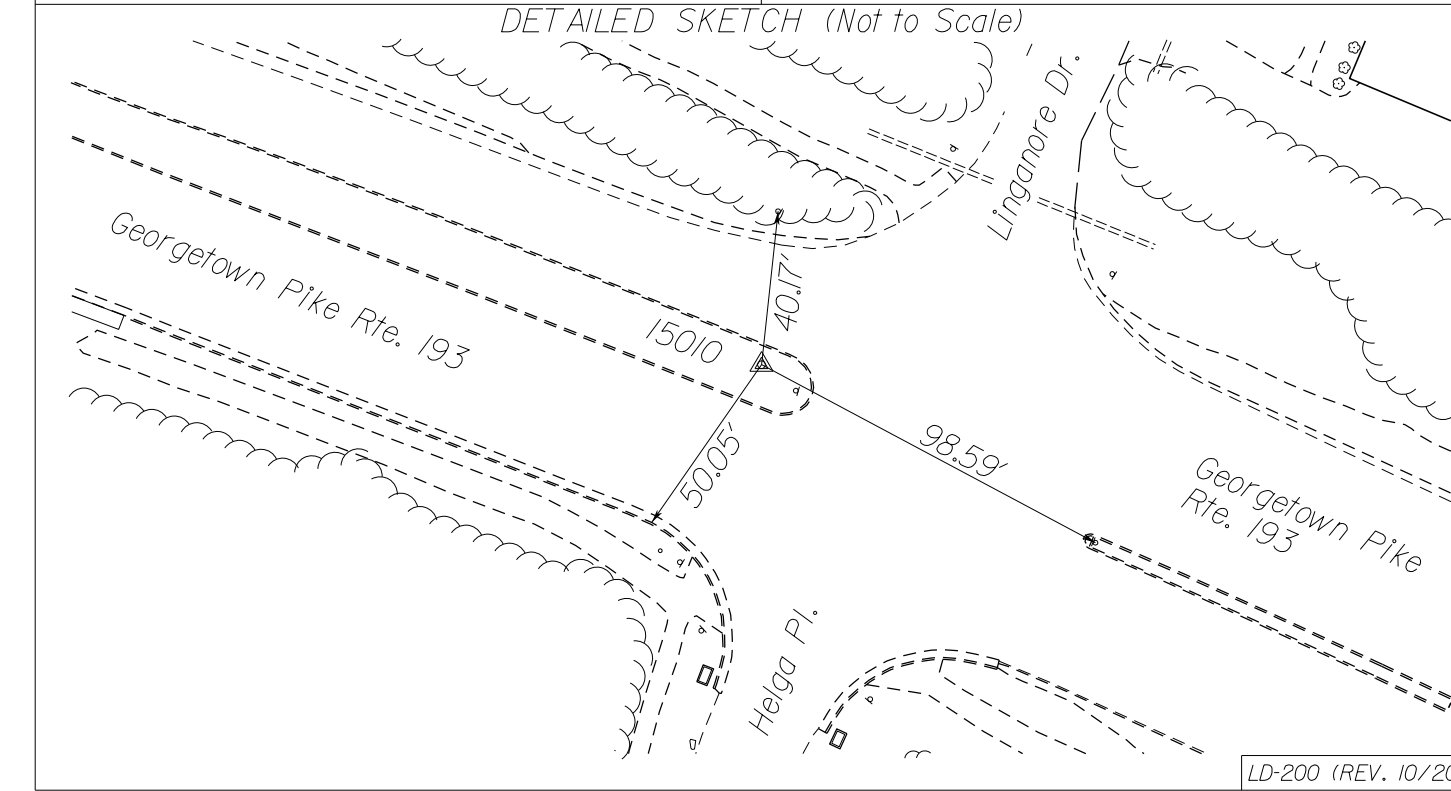
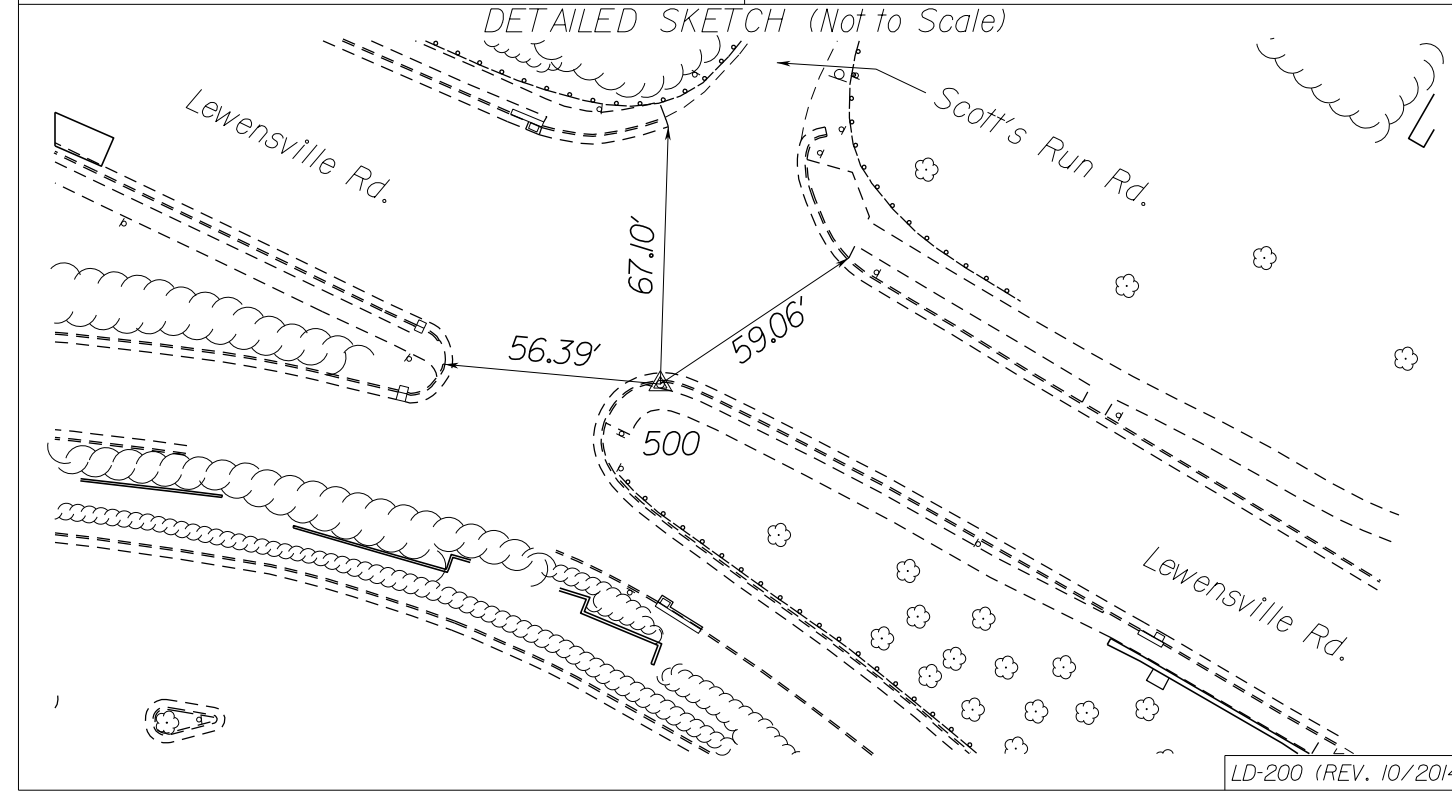
Virginia Department of Transportation Horizontal Control. Control Station I.D.: 15010 Date: 05-18-2022. VDOT Project Coordinates (Legacy) East (X): 3651808.129 ft, North (Y): 472012.015 ft, Elevation: 311.85 ft.

RTK Network Localization Points (Provided by Rice Associates Inc. 9-15-2021)

Table with columns: Station ID, N, E, Elev., CS. Values: 001 N 479957.852 E 3652429.033 Elev. 152.49' CS--Rice GPS

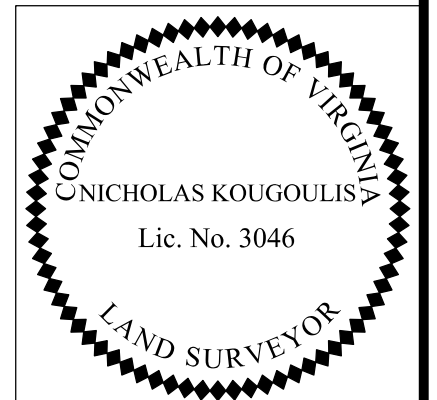
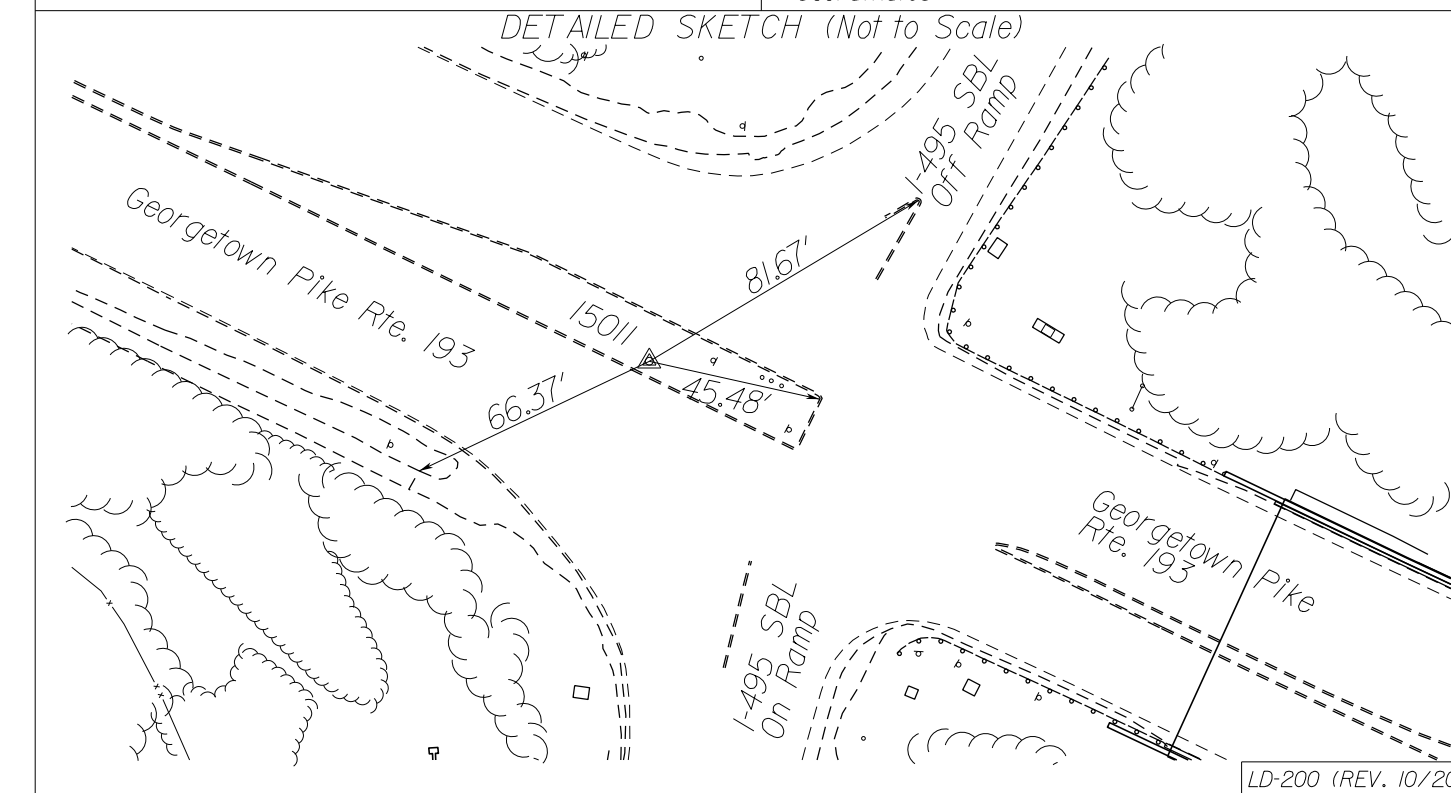
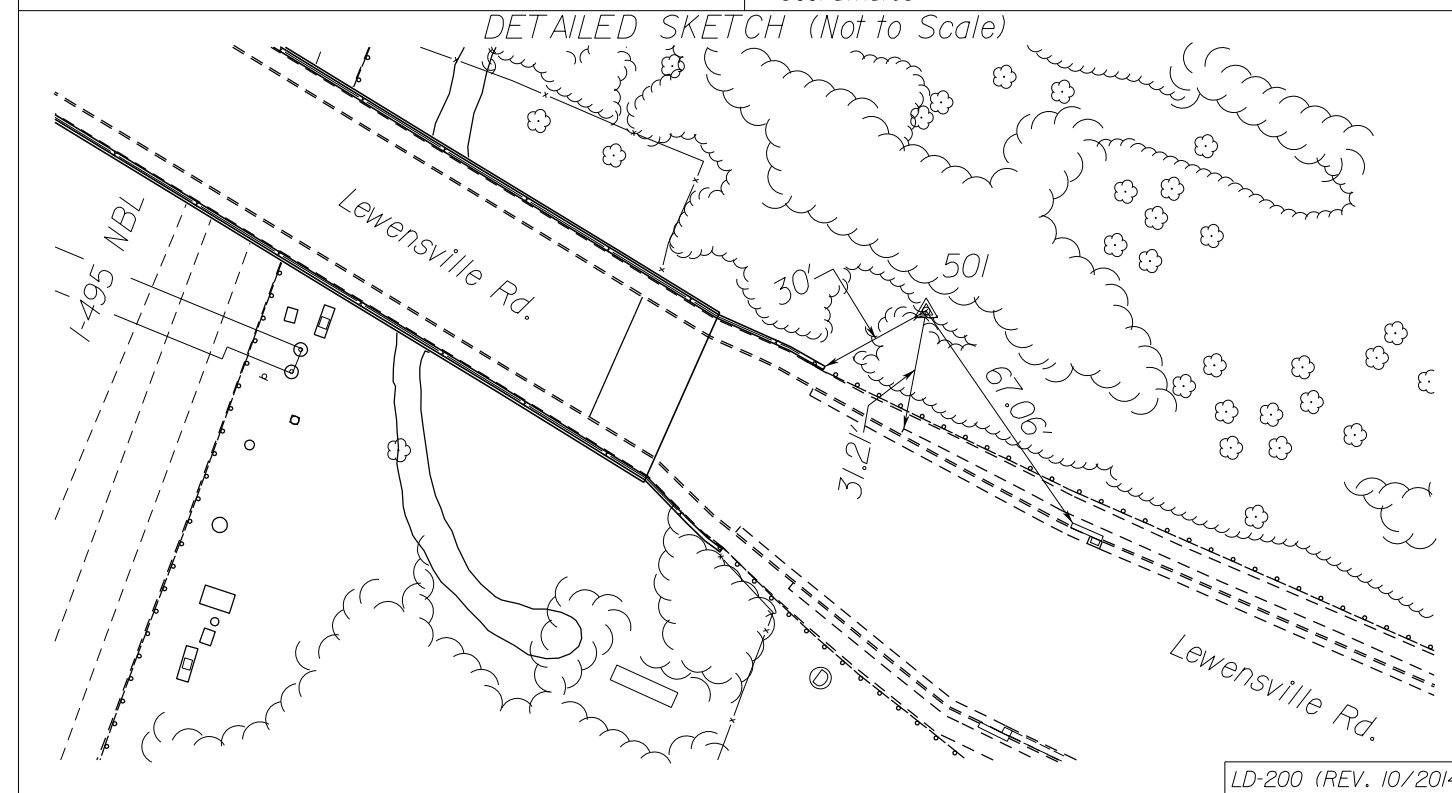
Survey Control Points (Provided by Lane Construction Corp. 09-01-2022)

Large table of survey control points with columns: Station ID, N, E, Elev., CS. Values: 15010 N 472012.015 E 3651808.129 Elev. 311.85 CS--CS-GPSM



Virginia Department of Transportation Horizontal Control. Control Station I.D.: 501 Date: 10-19-2021. VDOT Project Coordinates (Legacy) East (X): 3648792.932 ft, North (Y): 464728.518 ft, Elevation: 296.04 ft.

Virginia Department of Transportation Horizontal Control. Control Station I.D.: 15011 Date: 05-18-2022. VDOT Project Coordinates (Legacy) East (X): 3652200.014 ft, North (Y): 471822.332 ft, Elevation: 320.96 ft.



Rinker Design Assoc., P.C. Manassas, Virginia (LAND SURVEYOR)

Table with columns: VDOT PROJECT NO., SHEET NO. Values: 0495-029-419, IF AREA 4

APPROVED FOR CONSTRUCTION

NOVA DISTRICT

10/28/2022

PROJECT MANAGER VDOT - Rita... SURVEYED BY, DATE... DESIGN BY... SUBSURFACE UTILITY BY, DATE...

Survey Drainage Descriptions

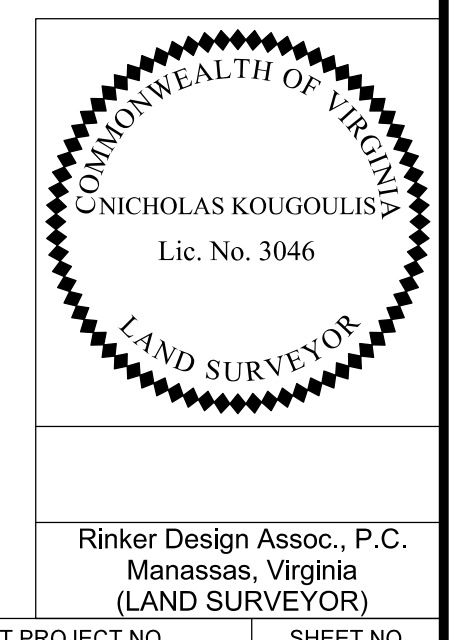
Table with columns: STATE (VA), ROUTE (495), VDOT PROJECT NO. (0495-029-419 C501 RW201), SHEET NO. (IF(5) AREA 4)

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

- List of drainage descriptions including pipe types (e.g., SSMH, Metal Grate, Conc. DI, Conc. Pipe), rim heights, and bottom of structure elevations for various projects.

NOVA DISTRICT

10/26/2022



Rinker Design Assoc., P.C. Manassas, Virginia (LAND SURVEYOR)

APPROVED FOR CONSTRUCTION

PROJECT MANAGER VDOT - Rita... SURVEYED BY, DATE RDA... DESIGN BY RDA... SUBSURFACE UTILITY BY, DATE...

Survey Drainage Descriptions

Table with columns: REVISED, STATE, ROUTE, VDOT PROJECT NO., SHEET NO. Values: VA, 495, 0495-029-419 C501 RW201, IF(8) AREA 4

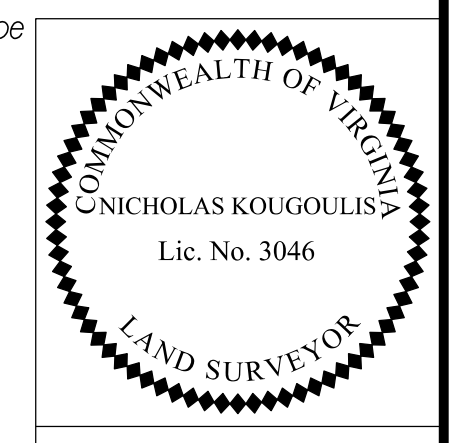
DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT

- 511 In Pl. Metal Grate Rtm = 278.14' Inv. In = 272.44' In Pl. 18" Conc. Pipe Inv. Out = 270.74'
512 In Pl. Metal Grate Rtm = 278.23' Inv. In = 278.23' In Pl. 18" Conc. Pipe Inv. Out = 273.53'
513 In Pl. Endwall In Pl. 30" Conc. Pipe Inv. = 256.18'
514 In Pl. Metal Grate Rtm = 272.23' Inv. In = 264.48' In Pl. 30" Conc. Pipe Inv. Out = 264.48'
515 In Pl. Metal Grate Rtm = 271.99' Inv. In = 265.54' In Pl. 30" Conc. Pipe Inv. Out = 265.49'
516 In Pl. Metal Grate Rtm = 272.25' Inv. In = 265.65' In Pl. 30" Conc. Pipe Inv. Out = 265.61'
517 In Pl. Endwall In Pl. 18" Conc. Pipe Inv. Out = 259.92'
518 In Pl. Metal Grate Rtm = 273.88' Inv. In = 260.88'
519 In Pl. Headwall In Pl. 8'(w) x 6'(h) Box Culvert Inv. = 253.98'
520 In Pl. Metal Grate Rtm = 274.58' Inv. In = 267.48' In Pl. 18" Conc. Pipe Inv. Out = 267.41'
521 In Pl. Metal Grate Rtm = 275.66' Same As Str. C178
522 In Pl. Metal Grate Rtm = 274.65' (a) Inv. In = 266.65' (b) Inv. In = 268.25' In Pl. 30" Conc. Pipe Inv. Out = 266.65'
523 In Pl. Metal Grate Rtm = 274.72' Inv. In = 268.52' In Pl. 24" Conc. Pipe Inv. Out = 268.62'
524 In Pl. SSMH Rtm = 292.25' Inv. In = 283.15' In Pl. 24" Conc. Pipe Inv. Out = 269.75'
525 In Pl. Metal Grate Rtm = 298.15' Inv. In = 294.65' In Pl. 24" Conc. Pipe Inv. Out = 286.98'
526 In Pl. F.E.S In Pl. 18" Conc. Pipe Inv. = 295.07'
527 In Pl. Metal Grate Rtm = 276.94' Inv. In = 272.24'
528 In Pl. Metal Grate Rtm = 278.35' Inverts Inaccessible Str. Full Of Debris
529 In Pl. Metal Grate Rtm = 278.79' Inverts Inaccessible Str. Full Of Debris
530 In Pl. Headwall In Pl. 24" Conc. Pipe Inv. = 301.70'
531 In Pl. SSMH Rtm = 307.51 (a) Inv. In = 302.01 (b) Inv. In = 299.51 In Pl. 36" Conc. Pipe Inv. Out = 292.51
532 In Pl. SSMH Rtm = 304.11 Inv. In = 293.34' In Pl. 39" Plastic Pipe Inv. Out = 289.89'
533 In Pl. Endwall In Pl. 39" Plastic Pipe Inv. Out = 289.74'
1005 In Pl. Metal Grate Rtm = 308.77' Inv. In = 301.52' In Pl. 36" Conc. Pipe Inv. Out = 301.47'
535 In Pl. Metal Grate Rtm = 309.43' (a) Inv. In = 304.28' In Pl. 18" Plastic Pipe (b) Inv. In = 302.58' In Pl. 36" Conc. Pipe Inv. Out = 302.48' In Pl. 36" Conc. Pipe
536 In Pl. Metal Grate Rtm = 309.68' Inv. In = 304.38' In Pl. 36" Conc. Pipe Inv. Out = 304.35'
537 In Pl. Headwall In Pl. 54" Conc. Pipe Inv. = 289.75'
538 In Pl. SSMH Rtm = 296.89' Inv. In = 288.39' In Pl. 54" Conc. Pipe Inv. Out = 281.04'
539 In Pl. F.E.S In Pl. 54" Conc. Pipe Inv. = 280.99'
540 In Pl. F.E.S In Pl. 27" Conc. Pipe Inv. = 283.54'
541 In Pl. SSMH Rtm = 292.36' (a) Inv. In = 284.68' In Pl. 27" Conc. Pipe (b) Inv. In = 284.46' In Pl. 18" Conc. Pipe Inv. Out = 283.62'
542 In Pl. SSMH Rtm = 308.26' Inv. In = 286.96' In Pl. 27" Conc. Pipe Inv. Out = 286.91'
543 In Pl. Metal Grate Rtm = 297.22' Inv. In = 288.14' In Pl. 36" Conc. Pipe Inv. Out = 288.10'
544 In Pl. Metal Grate Rtm = 300.82' (a) Inv. In = 290.22' (b) Inv. In = 296.07 In Pl. 18" Conc. Pipe Inv. Out = 290.12'
545 In Pl. Metal Grate Rtm = 297.56' Inv. In = 292.26'
546 In Pl. Metal Grate Rtm = 302.48' In Pl. 18" Conc. Pipe Inv. Out = 298.28'
547 In Pl. SSMH Rtm = 291.89' Inv. In = 286.13' In Pl. 18" Conc. Pipe Inv. Out = 286.09'
548 In Pl. SSMH Rtm = 319.52' Inv. In = 313.02' In Pl. 18" Conc. Pipe Inv. Out = 295.96'
549 In Pl. SSMH Rtm = 328.45' (a) Inv. In = 321.20' (b) Inv. In = 320.55' In Pl. 18" Conc. Pipe Inv. Out = 313.85'
550 In Pl. Metal Grate Rtm = 327.44' Inv. In = 321.60' In Pl. 18" Conc. Pipe Inv. Out = 321.54'
551 In Pl. Metal Grate Rtm = 328.90' Inv. In = 322.70' In Pl. 18" Conc. Pipe Inv. Out = 322.60'
552 In Pl. SSMH Rtm = 330.95' Inv. In = 323.45' In Pl. 18" Conc. Pipe Inv. Out = 323.35'
553 In Pl. Metal Grate Rtm = 330.55' Inv. In = 324.55'
554 In Pl. Endwall In Pl. 18" Conc. Pipe Inv. Out = 292.96'
555 In Pl. Metal Grate Rtm = 300.75' Inv. In = 295.50' In Pl. 18" Conc. Pipe Inv. Out = 293.68'
556 In Pl. Metal Grate Rtm = 299.99' Inv. In = 295.99'
557 In Pl. Endwall In Pl. 36" Conc. Pipe Inv. Out = 291.12'
558 In Pl. SSMH Rtm = 300.04' (a) Inv. In = 293.24' (b) Inv. In = 292.09' In Pl. 36" Conc. Pipe Inv. Out = 292.06'
559 In Pl. Metal Grate Rtm = 299.88' Inv. In = 294.60' In Pl. 18" Conc. Pipe Inv. Out = 294.56'
560 In Pl. Metal Grate Rtm = 299.96' Inv. In = 295.94' In Pl. 18" Conc. Pipe Inv. Out = 295.89'
561 In Pl. Metal Grate (2) Rtm = 300.75' (North) Rtm = 304.68' (South) (a) Inv. In = 294.48' (b) Inv. In = 293.85' (c) Inv. In = 294.42 In Pl. 36" Conc. Pipe Inv. Out = 292.88'
562 In Pl. Metal Grate Rtm = 300.81' Inv. In = 295.27' In Pl. 18" Conc. Pipe Inv. Out = 295.43'
563 In Pl. Metal Grate Rtm = 304.17' Inv. In = 299.34'
564 In Pl. Metal Grate Rtm = 301.19' Inv. In = 295.49'
565 In Pl. Metal Grate Rtm = 301.25' Inv. In = 296.75' In Pl. 18" Conc. Pipe Inv. Out = 296.65'
566 In Pl. Metal Grate Rtm = 302.16' (a) Inv. In = 298.18' (b) Inv. In = 298.18' In Pl. 18" Conc. Pipe Inv. Out = 298.14'
567 In Pl. Metal Grate Rtm = 302.54' Inv. In = 299.54'
568 In Pl. Metal Grate Rtm = 303.12' Inv. In = 299.42'
569 In Pl. Conc. Riser Top = 283.97' In Pl. 12'(w) x 1'(h) Wier Inv. = 281.00' In Pl. 4' Weep Hole Inv. = 278.51' (a) In Pl. 30" Conc. Pipe Inv. Out = 278.05' (b) In Pl. 30" Conc. Pipe Inv. Out = 278.09'
570 In Pl. Metal Grate Rtm = 289.89' Inv. In = 273.82' In Pl. 30" Conc. Pipe Inv. Out = 273.77'
571 In Pl. Endwall In Pl. 30" Conc. Pipe (a) Inv. = 265.19' In Pl. 30" Conc. Pipe (b) Inv. = 265.15'
572 In Pl. 18" Conc. Pipe Inv. = 276.18'
573 In Pl. Metal Grate Rtm = 286.10' Inv. In = 278.90'
574 In Pl. F.E.S In Pl. 18" Conc. Pipe Inv. = 316.42'
575 In Pl. Metal Grate Rtm = 323.62' Inv. In = 316.72' In Pl. 18" Conc. Pipe Inv. Out = 316.67'
576 In Pl. Metal Grate Rtm = 322.82' Inv. In = 317.72'
577 In Pl. F.E.S In Pl. 18" Conc. Pipe Inv. = 316.63'
578 In Pl. Metal Grate Rtm = 328.08' Inv. In = 320.68' In Pl. 18" Conc. Pipe Inv. Out = 318.08'
579 In Pl. Metal Grate Rtm = 326.92' Inv. In = 321.92'
580 In Pl. F.E.S In Pl. 18" Conc. Pipe Inv. = 295.02'
581 In Pl. Metal Grate Rtm = 299.85' Inv. In = 295.27' In Pl. 18" Conc. Pipe Inv. Out = 295.23'
582 In Pl. Metal Grate Rtm = 298.81 Inv. In = 295.91'
583 In Pl. Endwall In Pl. 18" Conc. Pipe Inv. = 304.90'
584 In Pl. Metal Grate Rtm = 311.27' Inv. In = 305.2' +/- In Pl. 18" Conc. Pipe Inv. Out = 305.1' +/- (Structure Has Debris)
585 In Pl. Metal Grate Rtm = 310.62' Inv. In = 275.75' In Pl. 18" Conc. Pipe Inv. Out = 275.70' (Structure Has Debris)
586 In Pl. Endwall In Pl. 24" Conc. Pipe Inv. = 262.07'
587 In Pl. F.E.S In Pl. 24" Conc. Pipe Inv. = 268.12'
588 In Pl. Endwall In Pl. 7'(h) x 10'(w) Box Culvert (a) Inv. = 263.90' In Pl. 7'(h) x 10'(w) Box Culvert (b) Inv. = 263.84'
589 In Pl. Endwall In Pl. 18" Conc. Pipe Inv. = 286.59'
590 In Pl. Metal Grate Rtm = 293.52' Inv. In = 287.42'
591 In Pl. Endwall In Pl. 18" Conc. Pipe Inv. = 286.52'
592 In Pl. Metal Grate Rtm = 291.77' Inv. In = 286.97'
593 In Pl. Endwall In Pl. 48" Conc. Pipe Inv. = 278.91'
594 In Pl. Headwall In Pl. 48" Conc. Pipe Inv. = 285.75'
595 In Pl. F.E.S In Pl. 18" Conc. Pipe Inv. = 275.97'
596 In Pl. Metal Grate Rtm = 285.50' Inv. In = 277.20'
597 In Pl. Headwall In Pl. 8'(h) x 8'(w) Box Culvert (a) Inv. = 260.92' In Pl. 8'(h) x 8'(w) Box Culvert (b) Inv. = 260.80'
598 In Pl. F.E.S In Pl. 24" Conc. Pipe Inv. = 270.13'
599 In Pl. SSMH Rtm = 281.71' Inv. In = 273.21' In Pl. 24" Conc. Pipe Inv. Out = 272.11'
600 In Pl. Metal Grate Rtm = 281.46' Inv. In = 273.65' In Pl. 18" Conc. Pipe Inv. Out = 273.60'
601 In Pl. Metal Grate Rtm = 281.38' Inv. In = 274.53' In Pl. 18" Conc. Pipe Inv. Out = 274.48'
602 In Pl. Metal Grate Rtm = 281.79' Inv. In = 275.01' In Pl. 18" Conc. Pipe Inv. Out = 274.96'
603 In Pl. SSMH Rtm = 280.31' (a) Inv. In = 274.93' (b) Inv. In = 274.93' In Pl. 18" Conc. Pipe Inv. Out = 274.91'
604 In Pl. Metal Grate Rtm = 279.67' Inv. In = 275.27'
605 In Pl. Metal Grate Rtm = 280.23' Inv. In = 275.75' In Pl. 18" Conc. Pipe Inv. Out = 275.70'
606 In Pl. Metal Grate Rtm = 280.23' Inv. In = 276.19'
607 In Pl. F.E.S In Pl. 18" Conc. Pipe Inv. = 275.35'
608 In Pl. SSMH Rtm = 283.29' (a) Inv. In = 280.79' (b) Inv. In = 276.84' In Pl. 18" Conc. Pipe Inv. Out = 276.79'
609 In Pl. Metal Grate Inaccessible
610 In Pl. Metal Grate Rtm = 281.34' Inv. In = 277.15'
611 In Pl. Endwall In Pl. 8'(h) x 8'(w) Box Culvert (a) Inv. = 265.45' In Pl. 8'(h) x 8'(w) Box Culvert (b) Inv. = 265.38'
612 In Pl. Headwall In Pl. 8'(h) x 8'(w) Box Culvert (a) Inv. = 266.51' In Pl. 8'(h) x 8'(w) Box Culvert (b) Inv. = 266.58'
613 In Pl. Endwall In Pl. 18" Conc. Pipe Inv. = 280.68'
614 In Pl. Metal Grate Rtm = 288.68' Inv. In = 283.34'
615 In Pl. Endwall In Pl. 24" Conc. Pipe Inv. = 280.68'
616 In Pl. Metal Grate Rtm = 283.98' Inv. In = 273.28'
617 In Pl. Endwall In Pl. 60" Conc. Pipe (a) Inv. = 288.25' In Pl. 4'(h) x 7'(w) Box Culvert (b) Inv. = 288.29' In Pl. 4'(h) x 7'(w) Box Culvert (c) Inv. = 268.44'
618 In Pl. Endwall In Pl. 72" Conc. Pipe (a) Inv. = 270.39' In Pl. 6'(h) x 8'(w) Box Culvert (b) Inv. = 270.53' In Pl. 6'(h) x 8'(w) Box Culvert (c) Inv. = 270.57'
619 In Pl. SSMH Rtm = 292.79' (a) Inv. In = 286.19' (b) Inv. In = 286.19' In Pl. 6'(h) x 8'(w) Box Culvert Inv. = 272.44'
620 In Pl. Metal Grate Rtm = 290.55' Inv. In = 287.20'
621 In Pl. Metal Grate Rtm = 290.33' Inv. In = 287.38'
622 In Pl. Metal Grate Rtm = 285.24' Inv. In = 276.48' (direct connect to 6'(h) x 8'(w) Box Culvert)
623 In Pl. F.E.S In Pl. 18" Conc. Pipe Inv. = 329.18'
624 In Pl. Metal Grate Rtm = 334.27' Inv. In = 329.77'
625 In Pl. F.E.S In Pl. 18" Conc. Pipe Inv. = 327.94'
626 In Pl. Metal Grate Rtm = 336.34' (a) Inv. In = 328.47' (b) Inv. In = 331.31' In Pl. 18" Conc. Pipe Inv. Out = 328.44'
627 In Pl. Metal Grate Rtm = 334.17' Inv. In = 329.32'
628 In Pl. Metal Grate Rtm = 337.29' Inv. In = 332.14'
629 In Pl. F.E.S In Pl. 18" Conc. Pipe Inv. = 321.55'
630 In Pl. Metal Grate Rtm = 331.54' Inv. In = 323.14' In Pl. 18" Conc. Pipe Inv. Out = 322.54'
631 In Pl. Metal Grate Rtm = 331.69' Inv. In = 324.37' In Pl. 18" Conc. Pipe Inv. Out = 324.34'
632 In Pl. Metal Grate Rtm = 332.20' (a) Inv. In = 324.80' (b) Inv. In = 324.80' In Pl. 18" Conc. Pipe Inv. Out = 324.75'
633 In Pl. Metal Grate Rtm = 330.32' Inv. In = 325.65' In Pl. 18" Conc. Pipe Inv. Out = 325.60'
634 In Pl. Metal Grate Rtm = 334.12' Inv. In = 326.27'
635 In Pl. Metal Grate Rtm = 332.23' Inv. In = 325.53' In Pl. 18" Conc. Pipe Inv. Out = 325.48'
636 In Pl. Metal Grate Rtm = 332.28' Inv. In = 326.93'
637 In Pl. F.E.S In Pl. 18" Conc. Pipe Inv. = 317.66'
638 In Pl. F.E.S In Pl. 18" Conc. Pipe Inv. = 317.66'
639 In Pl. Metal Grate Rtm = 337.61' Inv. In = 321.31'
640 In Pl. Metal Grate Rtm = 337.69' Inv. In = 326.69'
641 In Pl. Endwall In Pl. 8'(h) x 8'(w) Box Culvert (a) Inv. = 259.01' In Pl. 8'(h) x 8'(w) Box Culvert (b) Inv. = 259.24'
642 In Pl. F.E.S In Pl. 24" Conc. Pipe Inv. = 283.49'
643 In Pl. Metal Grate Rtm = 288.39' Inv. In = 284.02' In Pl. 24" Conc. Pipe Inv. Out = 283.99'
644 In Pl. Metal Grate Rtm = 288.31' Inv. In = 284.67' In Pl. 24" Conc. Pipe Inv. Out = 284.60'
645 In Pl. Metal Grate Rtm = 288.56' Inv. In = 285.06' In Pl. 18" Conc. Pipe Inv. Out = 285.02'
646 In Pl. F.E.S In Pl. 18" Conc. Pipe Inv. = 302.92'
647 In Pl. Metal Grate Rtm = 308.40' Inv. In = 303.50'
648 In Pl. Metal Grate Rtm = 327.25' Inv. In = 322.23' In Pl. 18" Conc. Pipe Inv. Out = 322.21'
649 In Pl. Metal Grate Rtm = 332.88' Inv. In = 322.93'
650 In Pl. Metal Grate Rtm = 288.94' Inv. In = 277.04'
651 In Pl. End Wall In Pl. 18" Conc. Pipe Inv. = 289.35'
652 In Pl. Head Wall In Pl. 18" Conc. Pipe Inv. = 289.91'
653 In Pl. Metal Grate Rtm = 291.36' Inv. In = 286.26'
654 In Pl. Metal Grate Rtm = 290.88' Inv. In = 285.86'
655 In Pl. F.E.S In Pl. 18" Conc. Pipe Inv. = 283.08'
656 In Pl. Metal Grate Inaccessible
657 In Pl. Metal Grate Inaccessible
658 In Pl. Metal Grate Rtm = 310.04' In Pl. 15" Conc. Pipe Inv. In = 304.54' In Pl. 38 x 60 Conc. Pipe Inv. In = 304.34' In Pl. 18" Conc. Pipe Inv. Out = 304.29'
659 In Pl. F.E.S In Pl. 15" Conc. Pipe Inv. = 303.53'

NOVA DISTRICT

10/26/2022

APPROVED FOR CONSTRUCTION



Rinker Design Assoc., P.C. Manassas, Virginia (LAND SURVEYOR)

Table with columns: VDOT PROJECT NO., SHEET NO. Values: 0495-029-419, IF(8) AREA 4

PROJECT MANAGER_VDOT -Ritapal,Shah,PE,(703)259-2362
SURVEYED BY, DATE_RDA -Nicholas, Kougoulis,LS,(703)334-0837,12/2021
DESIGN BY_RDA -Darrell,Fischer,PE,(703)334-0823
Dewberry -Ron, Jakomilich,PE,(703)849-0651
SUBSURFACE UTILITY BY, DATE_Accumark -Michael,Taylor,LS,(703)635-3060,12/2021

Survey Drainage Descriptions

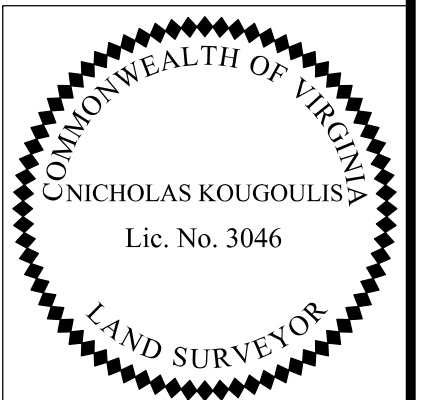
REVISED	STATE	ROUTE	STATE	VDOT PROJECT NO.	SHEET NO.
	VA.	495		0495-029-419 C501 RW201	IF(9) AREA 4

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

- 660 In Pl. FES
In Pl. 42" Conc. Pipe
Inv. = 265.02'
- 661 In Pl. SSMH
Rim = 271.58'
Inv. In = 263.68'
In Pl. 42" Conc. Pipe
Inv. Out = 263.63'
- 662 In Pl. Stormwater Mgmt. Str.
Metal Lid = 271.11'
Inv. In = 262.3' +/-
(a) In Pl. Unknown
Inv. Out = 260.3' +/-
(b) In Pl. 42" Conc. Pipe
Inv. Out = 262.3' +/-
Structure Is Surcharged
- 663 In Pl. SSMH
Rim = 273.12'
(a) In Pl. 21" Conc. Pipe
Inv. In = 259.72'
(b) In Pl. 42" Conc. Pipe
Inv. In = 259.72'
In Pl. 21" Conc. Pipe
Inv. Out = 259.52'
- 664 In Pl. Stormwater Mgmt. Str.
Metal Lid = 267.21'
Inv. In = 258.4' +/-
(a) In Pl. 1" PVC
Inv. Out = Inaccessible
(b) In Pl. 6" Iron
Inv. Out = Inaccessible
Structure Is Surcharged
- 665 In Pl. SSMH
Rim = 266.03'
(a) Inv. In = 259.33'
(b) Inv. In = 257.48'
(c) Inv. In = 258.28'
(d) Inv. In = 258.88'
(e) Inv. In = 259.08'
In Pl. 52" Conc. Pipe
Inv. Out = 256.83'
- 666 In Pl. Metal Grate
Rim = 262.93'
In Pl. 18" Conc. Pipe
Inv. Out = 259.33'
- 667 In Pl. Metal Grate
Rim = 263.53'
In Pl. 15" Conc. Pipe
Inv. Out = 259.93'
- 668 In Pl. FES
In Pl. 52" Conc. Pipe
Inv. = 253.24'
- 669 In Pl. FES
In Pl. 15" Conc. Pipe
Inv. = 255.48'
- 670 In Pl. Metal Grate
Rim = 267.68'
In Pl. 15" Conc. Pipe
Inv. In = 263.96'
In Pl. 15" Conc. Pipe
Inv. Out = 261.08'
- 671 In Pl. 24" RCP
Inv. In = 233.10'
Inv. Out = 232.58'
- 672 In Pl. 6" Plastic Pipe
Inv. In = 232.72'
In Pl. 6" Plastic Pipe
Inv. Out = 232.38'
- 673 In Pl. 10" Conc. Pipe
Inv. In = 232.14'
Terminus Not Found
- 674 In Pl. 12" Metal Pipe
Inv. In = 285.38'
In Pl. 12" Metal Pipe
Inv. Out = 280.51'
- 675 In Pl. 10" Plastic
Inv. Out = 281.21'
(Origin Not Found)
- 676 In Pl. Conc. DI
Rim = 282.68'
In Pl. 8" x 48" Slot (Sides)
Inv. In = 281.72'
In Pl. 8" x 10" Slot (At Ditch)
Inv. = 278.70'
In Pl. 24" Conc. Pipe
Inv. Out = 277.81'
10" Sq. Opening Into Structure
- 677 In Pl. Conc. DI
Rim = 284.10'
(a) Inv. In = 277.87'
(b) Inv. In = 278.22'
In Pl. 24" Conc. Pipe
Inv. Out = 277.82'
- 678 In Pl. SSMH
Rim = 283.10'
Inv. In = 277.03'
In Pl. 24" Conc. Pipe
Inv. Out = 274.23'
- 679 In Pl. Conc. DI
Rim = 283.05'
In Pl. 15" Conc. Pipe
Inv. Out = 280.05'
- 680 In Pl. 15" Metal Pipe
Inv. In = 280.95'
In Pl. 15" Metal Pipe
Inv. Out = 280.04'
- 681 In Pl. Conc. Endwall
In Pl. 15" Conc. Pipe
Inv. = 292.05'
- 682 In Pl. SSMH
Rim = 289.76'
- 683 In Pl. Conc. DI
w/Grate
Grate Top = 293.58'
- 684 In Pl. SSMH
Rim = 306.99'
Inv. In = 303.09'
Inv. Out = 302.41'
- 684 In Pl. Metal Grate
Top = 286.74'
Inv. Out = 281.54'
- 685 In Pl. RCP
Inv. Out = 281.06'
- 686 In Pl. 15" CMP
Inv. In = 268.71'
Inv. Out = 267.89'
- 687 In Pl. 12" CMP
Inv. In = 274.06'
Inv. Out = 272.55'
- 688 In Pl. 15" CMP
Inv. In = 292.88'
Inv. Out = 291.20'
- 689 Inv. 18" RCP w/FES = 297.66'
- 690 In Pl. Conc. DI
Top = 303.43'
- 691 In Pl. Conc. DI
Top = 251.54'
- 692 Damaged 12" CMP
Estimated Inv. = 245.13'
- 693 In Pl. 60" CMP
Inv. In = 243.17'
Inv. Out = 239.17'
- 694 In Pl. SSMH
Rim = 249.39'
- 695 In Pl. 15" CMP
Inv. In = 283.50'
Inv. Out = 272.05'
- 696 In Pl. 18" Conc. Pipe
Inv. In = 239.91'
- 697 In Pl. 18" Conc. Pipe
Inv. In = 240.35'
- 698 In Pl. Drop Inlet
Rim = 254.45'
(a) Inv. In = 233.20'
(b) Inv. In = 233.20'
In Pl. 18" Conc. Pipe
Inv. Out = 233.15'
In Pl. 24" Conc. Pipe
- 699 In Pl. Drop Inlet
Rim = 254.58'
Inv. Out = 248.40'
In Pl. 18" Conc. Pipe
- 700 In Pl. Drop Inlet
Rim = 252.56'
(a) Inv. In = 246.91'
(b) Inv. In = 246.76'
In Pl. 18" Conc. Pipe
(c) Inv. In = 231.40'
In Pl. 24" Conc. Pipe
Inv. Out = 231.36'
In Pl. 24" Conc. Pipe
- 701 In Pl. Drop Inlet
Rim = 253.15'
Inv. In = 247.14'
In Pl. 18" Conc. Pipe
Inv. Out = 247.04'
In Pl. 18" Conc. Pipe
- 702 In Pl. Drop Inlet
Rim = 253.15'
Inv. In = 248.45'
In Pl. 18" Conc. Pipe
Inv. Out = 248.25'
In Pl. 18" Conc. Pipe
- 703 In Pl. Drop Inlet
Rim = 252.45'
Inv. Out = 248.65'
In Pl. 18" Conc. Pipe
- 704 In Pl. Drop Inlet
Rim = 246.32'
(a) Inv. In = 226.06'
In Pl. 24" Conc. Pipe
(b) Inv. In = 240.57'
In Pl. 18" Conc. Pipe
Inv. Out = 226.02'
In Pl. 24" Conc. Pipe
- 705 In Pl. Drop Inlet
Rim = 246.98'
Inv. Out = 240.86'
In Pl. 18" Conc. Pipe
- 706 In Pl. 24" Conc. Pipe
Inv. Out = 220.80'
- 707 In Pl. Metal Grate
Rim = 311.88'
Inv. Out = 308.31'
In Pl. 18" Conc. Pipe
- 708 In Pl. Metal Grate
Rim = 311.30'
Inv. In = 306.80'
In Pl. 18" Conc. Pipe
Inv. Out = 306.59'
In Pl. 18" Plastic Pipe
- 709 In Pl. 48" Conc. Pipe
Inv. In = 240.65'
Inv. Out = 240.59'
- 710 In Pl. 48" Conc. Pipe
Inv. In = 240.63'
Inv. Out = 240.21'
- 711 In Pl. Drop Inlet
Rim = 251.20'
Inv. Out = 246.80'
In Pl. 18" Conc. Pipe
- 712 In Pl. Drop Inlet
Rim = 251.76'
Inv. In = 246.31'
In Pl. 18" Conc. Pipe
Inv. Out = 246.06'
In Pl. 18" Conc. Pipe
- 713 In Pl. Drop Inlet
Rim = 252.69'
Inv. In = 243.49'
In Pl. 18" Conc. Pipe
Inv. Out = 243.29'
In Pl. 18" Conc. Pipe
- 714 In Pl. Drop Inlet
Rim = 252.69'
Inv. In = 242.89'
In Pl. 18" Conc. Pipe
Inv. Out = (Unable to Access)
In Pl. 18" Conc. Pipe
- 715 In Pl. 18" Conc. Pipe
Inv. Out = 235.68'
- 716 In Pl. 24" Conc. Pipe
Inv. In = 245.48'
Inv. Out = 245.26'
- 717 In Pl. 48" Conc. Pipe
Inv. In = 249.48'
Inv. Out = 249.05'
- 718 In Pl. 24" Metal Pipe
Inv. In = 252.09'
Inv. Out = 252.64'
In Pl. 48" Conc. Pipe
- 719 In Pl. Plastic Grate
Rim = 264.40'
Inv. In = 263.70'
In Pl. 4" Plastic Pipe
Inv. Out = 255.75'
In Pl. 4" Plastic Pipe
- 720 In Pl. Grate Inlet
Rim = 267.18'
Inv. Out = 262.43'
- 721 In Pl. Drop Inlet
Rim = 264.43'
Inv. In (15" RCP) = 257.83'
Inv. In (18" RCP) = 257.63'
Inv. Out = 257.43' (Cannot Find Outfall End)
- 232a In Pl. Metal Grate
Rim = 240.44' (per 2014 Plan)
In Pl. 18" CMP (per 2014 Plan)
Bottom of Structure = 234.19' (per 2014 Plan)
- 234a In Pl. Metal Grate
Rim = 240.58' (per 2014 Plan)
In Pl. 15" Conc. Pipe Surcharged (per 2014 Plan)
Bottom of Structure = 236.46' (per 2014 Plan)
- 722 In Pl. Conc. DI
Rim = 230.90'
Inv. Out (18" RCP) = 225.10'
- 723 In Pl. 18" Conc. Pipe
Inv. Out = 223.91'
- 724 In Pl. 48" Conc. Pipe
Inv. In = 233.07'
Inv. Out = 232.44'
- 725 In Pl. 48" Conc. Pipe
Inv. In = 233.02'
Inv. Out = 232.23'
- 726 In Pl. 24" Conc. Pipe
Inv. In = 236.56'
Inv. Out = 236.48'
- 727 In Pl. 24" Conc. Pipe
Inv. In = 236.60'
Inv. Out = 236.36'
- 728 In Pl. 42" Conc. Pipe
Inv. In = 259.37'
Inv. Out = 256.35'
- 729 In Pl. 36" Conc. Pipe
Inv. In = 261.00'
Inv. Out = 260.73'
- 730 In Pl. 18" Conc. Pipe
Inv. In = 266.13'
Inv. Out = 263.64'
- 731 In Pl. Wingwall
In Pl. 5.8'(h) x 4.8'(w) Box Culvert
(a) Inv. = 264.02'
In Pl. 5.8'(h) x 4.8'(w) Box Culvert
(b) Inv. = 263.52'
- 732 In Pl. 15" Conc. Pipe
Inv. In = 262.64'
Inv. Out = 260.45'
- 733 In Pl. 21" Metal Pipe
Inv. In = 266.33'
Inv. Out = 265.58'
- 734 In Pl. FES
In Pl. 15" Conc. Pipe
Inv. In = 236.86'
Inv. Out = 233.73'
- 735 In Pl. FES
In Pl. 15" Conc. Pipe
Inv. In = 299.32'
Inv. Out = 298.25'

NOVA DISTRICT

12/15/2022



Rinker Design Assoc., P.C.
Manassas, Virginia
(LAND SURVEYOR)

VDOT PROJECT NO. 0495-029-419	SHEET NO. IF(9) AREA 4
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APPROVED FOR CONSTRUCTION

PROJECT MANAGER VDOT - Rupal Shah, PE, (703) 259-2362
SURVEYED BY, DATE RDA - Nicholas Kaugaulis, LS, (703) 334-0837, 12/2021
DESIGN BY RDA - Darrell Fischer, PE, (703) 334-0823
SUBSURFACE UTILITY BY, DATE Accumark - Michael Taylor, LS, (703) 635-3060, 12/2021

Construction Alignment Data

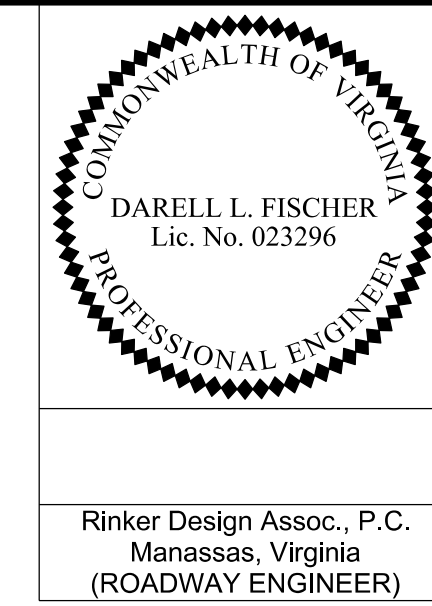


Table with columns: REVISED, STATE, ROUTE, STATE, VDOT PROJECT NO., SHEET NO. Values: VA, 495, 0495-029-419 C501 RW201, 16, AREA 4

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

Chain 495XL_NB description (Continued from Area 3)
Feature: - 50 Scale Baselines
Description: Proposed I-495 Northbound

Course from PT 495XL_NB9 to PC 495XL_NB10 N 17° 02' 40.66" E Dist 629.01

Curve Data
Curve 495XL_NB10
P.I. Station 675+77.78 N 473,660.61 E 3,653,148.19
Delta = 43° 24' 00.17" (RT)
Degree = 2° 55' 24.01"
Tangent = 779.96
Length = 1,484.61
Radius = 1,959.94
External = 149.49
Long Chord = 1,449.37
Mid. Ord. = 138.90
P.C. Station 667+97.82 N 472,914.91 E 3,652,919.57
P.T. Station 682+82.43 N 474,045.33 E 3,653,826.66
C.C. Station 675+77.78 N 473,440.42 E 3,654,793.43
Back = N 17° 02' 40.66" E
Ahead = N 60° 26' 40.83" E
Chord Bear = N 38° 44' 40.75" E

Course from PT 495XL_NB10 to NB495102 N 60° 26' 40.83" E Dist 367.57

Point NB495102 N 474,226.64 E 3,654,146.40 Sta 686+50.00

Ending chain 495XL_NB description

Beginning chain 495XL_NBC description
Feature: - 50 Scale Baselines
Description: Proposed I-495 Northbound Continued

Point NBC495101 N 474,212.72 E 3,654,154.29 Sta 686+50.00

Course from NBC495101 to PC 495XL_NBC1 N 60° 26' 40.83" E Dist 255.53

Curve Data
Curve 495XL_NBC1
P.I. Station 692+72.03 N 474,519.55 E 3,654,695.38
Delta = 3° 39' 02.55" (LT)
Degree = 0° 29' 53.61"
Tangent = 366.50
Length = 732.74
Radius = 11,500.00
External = 5.84
Long Chord = 732.62
Mid. Ord. = 5.84
P.C. Station 689+05.53 N 474,338.77 E 3,654,376.57
P.T. Station 696+38.28 N 474,720.26 E 3,655,002.03
C.C. Station 692+72.03 N 484,342.39 E 3,648,704.04
Back = N 60° 26' 40.83" E
Ahead = N 56° 47' 38.28" E
Chord Bear = N 58° 37' 09.56" E

Course from PT 495XL_NBC1 to PC 495XL_NBC2 N 56° 47' 38.28" E Dist 618.63

Curve Data
Curve 495XL_NBC2
P.I. Station 705+29.89 N 475,208.55 E 3,655,748.05
Delta = 14° 54' 41.10" (LT)
Degree = 2° 44' 48.05"
Tangent = 272.99
Length = 542.89
Radius = 2,086.00
External = 17.79
Long Chord = 541.36
Mid. Ord. = 17.64
P.C. Station 702+56.91 N 475,059.05 E 3,655,519.64
P.T. Station 707+99.80 N 475,411.80 E 3,655,930.30
C.C. Station 705+29.89 N 476,804.42 E 3,654,377.24
Back = N 56° 47' 38.28" E
Ahead = N 41° 52' 57.19" E
Chord Bear = N 49° 20' 17.73" E

Curve Data
Curve 495XL_NBC3
P.I. Station 714+15.06 N 475,869.87 E 3,656,341.05
Delta = 35° 01' 22.71" (LT)
Degree = 2° 56' 17.68"
Tangent = 615.26
Length = 1,191.97
Radius = 1,950.00
External = 94.76
Long Chord = 1,173.50
Mid. Ord. = 90.37
P.C. Station 707+99.80 N 475,411.80 E 3,655,930.30
P.T. Station 719+91.76 N 476,480.73 E 3,656,414.54
C.C. Station 714+15.06 N 476,713.63 E 3,654,478.50
Back = N 41° 52' 57.19" E
Ahead = N 6° 51' 34.48" E
Chord Bear = N 24° 22' 15.83" E

Ending chain 495XL_NBC description

Beginning chain 495XL_SB description (Continued from Area 3)
Feature: - 50 Scale Baselines
Description: Proposed I-495 Southbound

Course from PT 495XL_SB9 to PC 495XL_SB10 N 16° 59' 34.00" E Dist 679.66

Curve Data
Curve 495XL_SB10
P.I. Station 275+58.77 N 473,627.80 E 3,653,073.68
Delta = 36° 54' 30.63" (RT)
Degree = 3° 06' 19.66"
Tangent = 615.69
Length = 1,188.50
Radius = 1,845.00
External = 100.02
Long Chord = 1,168.06
Mid. Ord. = 94.88
P.C. Station 269+43.08 N 473,038.99 E 3,652,893.74
P.T. Station 281+31.59 N 473,990.55 E 3,653,571.16
C.C. Station 275+58.77 N 472,499.78 E 3,654,658.19
Back = N 16° 59' 34.00" E
Ahead = N 53° 54' 04.63" E
Chord Bear = N 35° 26' 49.32" E

Course from PT 495XL_SB11 to PC 495XL_SB12 N 63° 56' 57.22" E Dist 493.80

Curve Data
Curve 495XL_SB11
P.I. Station 287+72.80 N 474,368.34 E 3,654,089.27
Delta = 10° 02' 52.58" (RT)
Degree = 0° 47' 07.87"
Tangent = 641.22
Length = 1,279.15
Radius = 7,294.00
External = 28.13
Long Chord = 1,277.51
Mid. Ord. = 28.02
P.C.C. Station 281+31.59 N 473,990.55 E 3,653,571.16
P.T. Station 294+10.73 N 474,649.94 E 3,654,665.34
C.C. Station 287+72.80 N 468,096.97 E 3,657,868.63
Back = N 53° 54' 04.63" E
Ahead = N 63° 56' 57.22" E
Chord Bear = N 58° 55' 30.93" E

Course from PT 495XL_SB11 to PC 495XL_SB12 N 63° 56' 57.22" E Dist 493.80

Curve Data
Curve 495XL_SB12
P.I. Station 301+25.99 N 474,964.06 E 3,655,307.93
Delta = 5° 01' 25.78" (LT)
Degree = 1° 08' 06.07"
Tangent = 221.45
Length = 442.62
Radius = 5,048.00
External = 4.86
Long Chord = 442.48
Mid. Ord. = 4.85
P.C. Station 299+04.53 N 474,866.80 E 3,655,108.97
P.C.C. Station 303+47.15 N 475,078.36 E 3,655,497.60
C.C. Station 301+25.99 N 479,401.95 E 3,652,892.06
Back = N 63° 56' 57.22" E
Ahead = N 58° 55' 31.44" E
Chord Bear = N 61° 26' 14.33" E

Course from PT 495XL_SB13 to PC 495XL_SB14 N 15° 15' 30.04" (LT) Dist 475,206.27 E 3,655,709.84

Curve Data
Curve 495XL_SB13
P.I. Station 305+94.96 N 475,206.27 E 3,655,709.84
Delta = 15° 15' 30.04" (LT)
Degree = 3° 05' 49.45"
Tangent = 247.80
Length = 492.67
Radius = 1,850.00
External = 16.52
Long Chord = 491.22
Mid. Ord. = 16.38
P.C. Station 303+47.15 N 475,078.36 E 3,655,497.60
P.T. Station 308+39.83 N 475,385.52 E 3,655,880.94
C.C. Station 305+94.96 N 476,662.88 E 3,654,542.72
Back = N 58° 55' 31.44" E
Ahead = N 43° 40' 01.40" E
Chord Bear = N 51° 17' 46.42" E

Ending chain 495XL_SB description

Beginning chain LOD description
Feature: - 50 Scale Baselines
Description: Proposed Live Oak Drive

Point LOD001 N 473,853.91 E 3,653,150.08 Sta 10+00.00

Course from LOD001 to PC LOD_001 N 52° 49' 55.63" E Dist 368.96

Curve Data
Curve LOD_001
P.I. Station 14+17.04 N 474,105.86 E 3,653,482.40
Delta = 3° 41' 04.25" (RT)
Degree = 3° 50' 01.31"
Tangent = 48.07
Length = 96.11
Radius = 1,494.53
External = 0.77
Long Chord = 96.09
Mid. Ord. = 0.77
P.C. Station 13+68.96 N 474,076.82 E 3,653,444.09
P.T. Station 14+65.07 N 474,132.38 E 3,653,522.49
C.C. Station 14+17.04 N 472,885.87 E 3,654,347.02
Back = N 52° 49' 55.63" E
Ahead = N 56° 30' 59.88" E
Chord Bear = N 54° 40' 27.75" E

Course from PT LOD_001 to LOD003 N 56° 30' 59.88" E Dist 375.19

Point LOD003 N 474,339.37 E 3,653,835.42 Sta 18+40.26

Course from LOD003 to LOD004 N 61° 05' 25.99" E Dist 50.16

Point LOD004 N 474,363.62 E 3,653,879.33 Sta 18+90.42

Course from LOD004 to PC LOD_002 N 56° 30' 59.88" E Dist 109.09

Curve Data
Curve LOD_002
P.I. Station 21+40.64 N 474,501.67 E 3,654,088.02
Delta = 51° 07' 56.17" (LT)
Degree = 19° 25' 20.27"
Tangent = 141.13
Length = 263.27
Radius = 295.00
External = 32.02
Long Chord = 254.62
Mid. Ord. = 28.88
P.C. Station 19+99.52 N 474,423.81 E 3,653,970.32
P.T. Station 22+62.78 N 474,642.17 E 3,654,101.26
C.C. Station 21+40.64 N 474,669.85 E 3,653,807.57
Back = N 56° 30' 59.88" E
Ahead = N 5° 23' 03.70" E
Chord Bear = N 30° 57' 01.79" E

Course from PT LOD_002 to PC LOD_003 N 5° 23' 03.70" E Dist 137.45

Curve Data
Curve LOD_003
P.I. Station 31+35.35 N 475,510.88 E 3,654,183.14
Delta = 96° 20' 12.51" (RT)
Degree = 8° 42' 27.23"
Tangent = 735.12
Length = 1,106.36
Radius = 658.00
External = 328.59
Long Chord = 980.56
Mid. Ord. = 219.15
P.C. Station 24+00.23 N 474,779.01 E 3,654,114.16
P.T. Station 35+06.59 N 475,361.54 E 3,654,902.93
C.C. Station 31+35.35 N 474,717.27 E 3,654,769.26
Back = N 5° 23' 03.70" E
Ahead = S 78° 16' 43.79" E
Chord Bear = N 53° 33' 09.95" E

Course from PT LOD_003 to PC LOD_004 S 78° 16' 43.79" E Dist 296.43

Curve Data
Curve LOD_004
P.I. Station 40+32.45 N 475,254.72 E 3,655,417.82
Delta = 60° 56' 03.11" (LT)
Degree = 14° 41' 28.41"
Tangent = 229.43
Length = 414.77
Radius = 390.00
External = 62.48
Long Chord = 395.49
Mid. Ord. = 53.85
P.C. Station 38+03.02 N 475,301.32 E 3,655,193.18
P.T. Station 42+17.79 N 475,428.43 E 3,655,567.70
C.C. Station 40+32.45 N 475,683.19 E 3,655,272.41
Back = S 78° 16' 43.79" E
Ahead = N 40° 47' 13.10" E
Chord Bear = N 71° 15' 14.65" E

Course from PT LOD_004 to LOD008 N 40° 47' 13.10" E Dist 143.40

Point LOD008 N 475,537.00 E 3,655,661.38 Sta 43+61.19

Ending chain LOD description

Beginning chain LOD_BR description
Feature: - 50 Scale Baselines
Description: Proposed Live Oak Drive Bridge

Point LODBR1 N 473,511.30 E 3,653,439.57 Sta 10+00.00

Course from LODBR1 to LODBR2 N 46° 58' 51.62" W Dist 390.51

Point LODBR2 N 473,777.72 E 3,653,154.06 Sta 13+90.51

Ending chain LOD_BR description

Beginning chain LOD_INT description
Feature: - 50 Scale Baselines
Description: Proposed Live Oak Drive Intersection

Curve Data
Curve LOD_INT1
P.I. Station 14+13.34 N 473,793.30 E 3,653,137.37
Delta = 45° 42' 29.27" (RT)
Degree = 105° 46' 01.73"
Tangent = 21.83
Length = 43.22
Radius = 54.17
External = 4.61
Long Chord = 42.08
Mid. Ord. = 4.25
P.C. Station 13+90.51 N 473,777.72 E 3,653,154.06
P.T. Station 14+33.73 N 473,816.13 E 3,653,136.86
C.C. Station 14+13.34 N 473,817.33 E 3,653,191.02
Back = N 46° 58' 51.61" W
Ahead = N 1° 16' 22.34" W
Chord Bear = N 24° 07' 36.98" W

Course from PT LOD_INT1 to PC LOD_INT2 N 1° 16' 22.34" W Dist 9.95

Curve Data
Curve LOD_INT2
P.I. Station 14+61.02 N 473,843.42 E 3,653,136.25
Delta = 54° 04' 34.57" (RT)
Degree = 168° 31' 01.19"
Tangent = 17.35
Length = 32.09
Radius = 34.00
External = 4.17
Long Chord = 30.91
Mid. Ord. = 3.72
P.C. Station 14+43.67 N 473,826.07 E 3,653,136.64
P.T. Station 14+75.76 N 473,853.91 E 3,653,150.08
C.C. Station 14+61.02 N 473,826.83 E 3,653,170.63
Back = N 1° 16' 22.34" W
Ahead = N 52° 48' 12.23" E
Chord Bear = N 25° 45' 54.94" E

Ending chain LOD_INT description

NOVA DISTRICT

10/26/2022

APPROVED FOR CONSTRUCTION

Table with columns: VDOT PROJECT NO., SHEET NO. Values: 0495-029-419, 16, AREA 4

PROJECT MANAGER_VDOT - Rirapal Shah, P.E. (703) 259-2362
SURVEYED BY, DATE_RDA - Nicholas Kaugall, LS (703) 334-0837, 12/2021
DESIGN BY_RDA - Darrell Fischer, P.E. (703) 334-0823
SUBSURFACE UTILITY BY, DATE_Accumark - Michael Taylor, LS (703) 635-3060, 12/2021

Construction Alignment Data

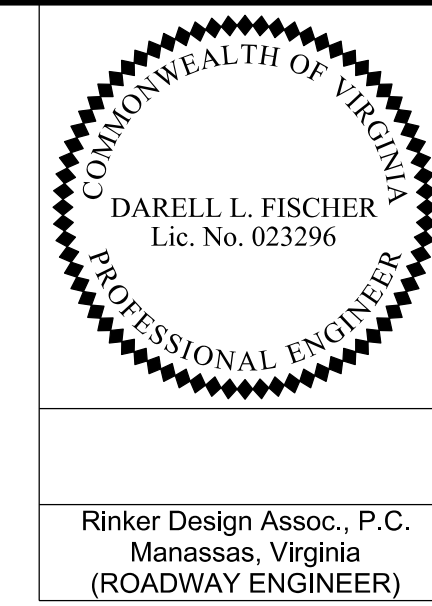


Table with columns: REVISED, STATE, ROUTE, STATE, VDOT PROJECT NO., SHEET NO. Values: VA, 495, 0495-029-419 C501 RW201, IG(1) AREA 4

Chain GWMP_RMP_G21 description (Continued from Area 3)
Feature: - 50 Scale Baselines
Description: Proposed Ramp G21

Curve Data
Curve GWMP_RMP_G21-6
P.I. Station 26+68.19 N 473,865.75 E 3,653,246.21
Delta = 12° 02' 51.29" (RT)
Degree = 2° 35' 24.81"

Curve Data
Curve GWMP_RMP_G21-11
P.I. Station 50+29.72 N 475,294.82 E 3,654,898.42
Delta = 12° 21' 27.79" (RT)
Degree = 8° 48' 53.05"

Beginning chain GWMP_RMP_G22 description
Feature: - 50 Scale Baselines
Description: Proposed Ramp G22

Point G22001 N 475,176.84 E 3,655,519.00 Sta 10+00.00
Course from G22001 to PC GWMP_RMP_G2201 S 59° 55' 43.86" W Dist 219.59
Curve Data
Curve GWMP_RMP_G2201
P.I. Station 14+87.58 N 474,932.52 E 3,655,097.04

Beginning chain GWMP_RMP_G23 description
Feature: - 50 Scale Baselines
Description: Proposed Ramp G23

Curve Data
Curve GWMP_RMP_G231
P.I. Station 12+49.58 N 474,747.79 E 3,655,135.39
Delta = 18° 38' 56.56" (RT)
Degree = 3° 46' 10.05"

Curve Data
Curve GWMP_RMP_G21-7
P.I. Station 29+72.71 N 474,059.36 E 3,653,483.48
Delta = 5° 43' 47.77" (RT)
Degree = 3° 56' 14.86"

Curve Data
Curve GWMP_RMP_G21-12
P.I. Station 53+14.91 N 475,186.12 E 3,655,162.68
Delta = 5° 43' 07.60" (LT)
Degree = 1° 19' 43.51"

Curve Data
Curve GWMP_RMP_G2202
P.I. Station 18+61.31 N 474,783.84 E 3,654,753.50
Delta = 31° 02' 09.68" (RT)
Degree = 14° 57' 35.04"

Curve Data
Curve GWMP_RMP_G232
P.I. Station 18+34.62 N 474,889.86 E 3,655,707.47
Delta = 15° 29' 01.57" (RT)
Degree = 2° 17' 30.59"

Course from PT GWMP_RMP_G21-7 to PC GWMP_RMP_G21-8 N 56° 30' 59.88" E Dist 544.26

Course from PT GWMP_RMP_G21-12 to PC GWMP_RMP_G21-13 S 73° 21' 34.67" E Dist 455.66

Curve Data
Curve GWMP_RMP_G21-8
P.I. Station 37+95.75 N 474,513.49 E 3,654,170.04
Delta = 49° 12' 42.32" (LT)
Degree = 12° 43' 56.62"

Curve Data
Curve GWMP_RMP_G21-13
P.I. Station 62+00.94 N 474,932.30 E 3,656,011.95
Delta = 16° 05' 48.07" (LT)
Degree = 3° 45' 43.32"

Curve Data
Curve GWMP_RMP_G2203
P.I. Station 24+12.36 N 474,857.72 E 3,654,202.15
Delta = 133° 53' 18.25" (RT)
Degree = 29° 55' 10.08"

Course from PT GWMP_RMP_G232 to G23102 S 88° 27' 48.31" E Dist 160.86
Point G23102 N 474,876.44 E 3,656,208.02 Sta 23+31.21

Course from PT GWMP_RMP_G21-8 to PC GWMP_RMP_G21-9 N 7° 18' 17.56" E Dist 111.51

Curve Data
Curve GWMP_RMP_G21-9
P.I. Station 44+56.97 N 475,194.79 E 3,654,257.38
Delta = 66° 48' 12.16" (RT)
Degree = 10° 13' 53.00"

Curve Data
Curve GWMP_RMP_G21-14
P.I. Station 65+33.58 N 474,929.11 E 3,656,347.41
Delta = 10° 13' 02.05" (LT)
Degree = 4° 15' 51.52"

Curve Data
Curve GWMP_RMP_G2204
P.I. Station 25+34.34 N 475,215.09 E 3,654,651.77
Delta = 33° 00' 03.41" (RT)
Degree = 13° 38' 30.67"

Ending chain GWMP_RMP_G23 description

Curve Data
Curve GWMP_RMP_G21-10
P.I. Station 48+51.88 N 475,326.37 E 3,654,719.55
Delta = 25° 53' 35.43" (RT)
Degree = 11° 50' 16.70"

Ending chain GWMP_RMP_G21 description

Ending chain GWMP_RMP_G22 description

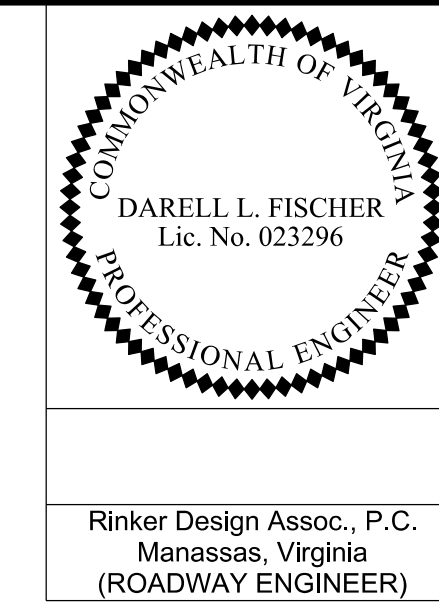
NOVA DISTRICT

10/26/2022

APPROVED FOR CONSTRUCTION

PROJECT MANAGER VDOT - Ritala, Srub, PE, (703) 259-2362
SURVEYED BY, DATE RDA - Nicholas, Kaugaulis, LS, (703) 334-0837, 12/2021
DESIGN BY RDA - Darrell, Fischer, PE, (703) 334-0823
Dewberry - Ron, Jakomilich, PE, (703) 849-0651
SUBSURFACE UTILITY BY, DATE Accumark - Michael, Taylor, LS, (703) 635-3060, 12/2021

Construction Alignment Data



REVISED	STATE	ROUTE	STATE	VDOT PROJECT NO.	SHEET NO.
	VA.	495		0495-029-419 C501 RW201	IG(2) AREA 4

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

Rinker Design Assoc., P.C.
Manassas, Virginia
(ROADWAY ENGINEER)

Beginning chain GWMP_RMP_E21 description
Feature: - 50 Scale Baselines
Description: Proposed Ramp E21
=====

Curve Data

Curve GWMP_E21_001
P.I. Station 6+90.13 N 473,816.86 E 3,653,369.93
Delta = 15° 24' 08.38" (RT)
Degree = 4° 10' 33.88"
Tangent = 185.53
Length = 368.82
Radius = 1,372.00
External = 12.49
Long Chord = 367.71
Mid. Ord. = 12.37
P.C. Station 5+04.60 N 473,674.43 E 3,653,251.04
P.C.C. Station 8+73.42 N 473,922.59 E 3,653,522.38
C.C. Station N 472,795.21 E 3,654,304.29
Back = N 39° 51' 14.55" E
Ahead = N 55° 15' 22.93" E
Chord Bear = N 47° 33' 18.74" E

Curve Data

Curve GWMP_E21_002
P.I. Station 11+26.97 N 474,067.10 E 3,653,730.73
Delta = 2° 54' 17.65" (RT)
Degree = 0° 34' 22.65"
Tangent = 253.55
Length = 507.00
Radius = 10,000.00
External = 3.21
Long Chord = 506.95
Mid. Ord. = 3.21
P.C.C. Station 8+73.42 N 473,922.59 E 3,653,522.38
P.T. Station 13+80.42 N 474,200.86 E 3,653,946.14
C.C. Station N 465,705.49 E 3,659,221.44
Back = N 55° 15' 22.93" E
Ahead = N 58° 09' 40.58" E
Chord Bear = N 56° 42' 31.76" E

Course from PT GWMP_E21_002 to PC GWMP_E21_003 N 58° 09' 40.58" E Dist 168.05

Curve Data

Curve GWMP_E21_003
P.I. Station 17+34.00 N 474,387.38 E 3,654,246.52
Delta = 55° 51' 20.33" (LT)
Degree = 16° 22' 12.80"
Tangent = 185.53
Length = 341.20
Radius = 350.00
External = 46.13
Long Chord = 327.85
Mid. Ord. = 40.76
P.C. Station 15+48.47 N 474,289.51 E 3,654,088.90
P.T. Station 18+89.67 N 474,572.76 E 3,654,253.98
C.C. Station N 474,586.85 E 3,653,904.27
Back = N 58° 09' 40.58" E
Ahead = N 2° 18' 20.25" E
Chord Bear = N 30° 14' 00.42" E

Course from PT GWMP_E21_003 to PC GWMP_E21_004 N 2° 18' 20.25" E Dist 279.80

Curve Data

Curve GWMP_E21_004
P.I. Station 23+35.60 N 475,018.33 E 3,654,271.92
Delta = 43° 09' 40.38" (RT)
Degree = 13° 38' 30.67"
Tangent = 166.13
Length = 316.39
Radius = 420.00
External = 31.66
Long Chord = 308.96
Mid. Ord. = 29.44
P.C. Station 21+69.47 N 474,852.33 E 3,654,265.24
P.C.C. Station 24+85.86 N 475,134.83 E 3,654,390.35
C.C. Station N 474,835.44 E 3,654,684.90
Back = N 2° 18' 20.25" E
Ahead = N 45° 28' 00.63" E
Chord Bear = N 23° 53' 10.44" E

Curve Data

Curve GWMP_E21_005
P.I. Station 27+94.41 N 475,351.22 E 3,654,610.29
Delta = 61° 10' 24.69" (RT)
Degree = 10° 58' 34.33"
Tangent = 308.55
Length = 557.33
Radius = 522.00
External = 84.37
Long Chord = 531.23
Mid. Ord. = 72.63
P.C.C. Station 24+85.86 N 475,134.83 E 3,654,390.35
P.T. Station 30+43.19 N 475,262.87 E 3,654,905.92
C.C. Station N 474,762.73 E 3,654,756.44
Back = N 45° 28' 00.63" E
Ahead = S 73° 21' 34.67" E
Chord Bear = N 76° 03' 12.98" E

Course from PT GWMP_E21_005 to ALTE21007 S 73° 21' 34.67" E Dist 483.36

Point ALTE21007 N 475,124.45 E 3,655,369.04 Sta 35+26.55

Ending chain GWMP_RMP_E21 description

Beginning chain GWMP_RMP_E22 description
Feature: - 50 Scale Baselines
Description: Proposed Ramp E22
=====

Curve Data

Curve GWMP_RMP_E22_001
P.I. Station 8+16.88 N 473,948.16 E 3,653,602.37
Delta = 16° 23' 38.52" (RT)
Degree = 2° 26' 06.04"
Tangent = 338.95
Length = 673.26
Radius = 2,353.00
External = 24.29
Long Chord = 670.97
Mid. Ord. = 24.04
P.C. Station 4+77.93 N 473,703.17 E 3,653,368.13
P.T. Station 11+51.19 N 474,117.07 E 3,653,896.23
C.C. Station N 472,077.08 E 3,655,068.85
Back = N 43° 42' 53.75" E
Ahead = N 60° 06' 32.27" E
Chord Bear = N 51° 54' 43.01" E

Course from PT GWMP_RMP_E22_001 to PC GWMP_RMP_E22_002 N 60° 06' 32.27" E Dist 224.83

Curve Data

Curve GWMP_RMP_E22_002
P.I. Station 16+07.89 N 474,344.67 E 3,654,292.17
Delta = 57° 48' 12.02" (LT)
Degree = 13° 38' 30.67"
Tangent = 231.87
Length = 423.72
Radius = 420.00
External = 59.75
Long Chord = 405.98
Mid. Ord. = 52.31
P.C. Station 13+76.02 N 474,229.12 E 3,654,091.15
P.T. Station 17+99.74 N 474,576.35 E 3,654,301.50
C.C. Station N 474,593.25 E 3,653,881.84
Back = N 60° 06' 32.27" E
Ahead = N 2° 18' 20.25" E
Chord Bear = N 31° 12' 26.26" E

Course from PT GWMP_RMP_E22_002 to PC GWMP_RMP_E22_003 N 2° 18' 20.25" E Dist 261.12

Curve Data

Curve GWMP_RMP_E22_003
P.I. Station 22+98.88 N 475,075.08 E 3,654,321.58
Delta = 64° 48' 28.54" (RT)
Degree = 15° 16' 43.95"
Tangent = 238.02
Length = 424.17
Radius = 375.00
External = 69.16
Long Chord = 401.91
Mid. Ord. = 58.39
P.C. Station 20+60.86 N 474,837.25 E 3,654,312.00
P.C.C. Station 24+85.03 N 475,167.65 E 3,654,540.86
C.C. Station N 474,822.17 E 3,654,686.70
Back = N 2° 18' 20.25" E
Ahead = N 67° 06' 48.79" E
Chord Bear = N 34° 42' 34.52" E

Curve Data

Curve GWMP_RMP_E22_004
P.I. Station 26+07.50 N 475,215.28 E 3,654,653.70
Delta = 17° 24' 29.80" (RT)
Degree = 7° 09' 43.10"
Tangent = 122.48
Length = 243.07
Radius = 800.00
External = 9.32
Long Chord = 242.13
Mid. Ord. = 9.21
P.C.C. Station 24+85.03 N 475,167.65 E 3,654,540.86
P.C.C. Station 27+28.09 N 475,226.97 E 3,654,775.61
C.C. Station N 474,430.63 E 3,654,851.99
Back = N 67° 06' 48.79" E
Ahead = N 84° 31' 18.59" E
Chord Bear = N 75° 49' 03.69" E

Curve Data

Curve GWMP_RMP_E22_005
P.I. Station 28+09.99 N 475,234.79 E 3,654,857.14
Delta = 22° 04' 03.36" (RT)
Degree = 13° 38' 30.67"
Tangent = 81.90
Length = 161.76
Radius = 420.00
External = 7.91
Long Chord = 160.77
Mid. Ord. = 7.76
P.C.C. Station 27+28.09 N 475,226.97 E 3,654,775.61
P.T. Station 28+89.86 N 475,211.41 E 3,654,935.62
C.C. Station N 474,808.89 E 3,654,815.71
Back = N 84° 31' 18.59" E
Ahead = S 73° 24' 38.05" E
Chord Bear = S 84° 26' 39.73" E

Course from PT GWMP_RMP_E22_005 to PC GWMP_RMP_E22_006 S 73° 24' 38.05" E Dist 912.00

Curve Data

Curve GWMP_RMP_E22_006
P.I. Station 42+88.22 N 474,812.16 E 3,656,275.78
Delta = 35° 01' 58.25" (LT)
Degree = 3° 43' 05.13"
Tangent = 486.36
Length = 942.23
Radius = 1,541.00
External = 74.93
Long Chord = 927.62
Mid. Ord. = 71.46
P.C. Station 38+01.86 N 474,951.02 E 3,655,809.66
P.T. Station 47+44.08 N 474,966.03 E 3,656,737.16
C.C. Station N 476,427.88 E 3,656,249.64
Back = S 73° 24' 38.05" E
Ahead = N 71° 33' 23.70" E
Chord Bear = N 89° 04' 22.83" E

Course from PT GWMP_RMP_E22_006 to 102 N 71° 33' 23.70" E Dist 619.91

Point 102 N 475,162.15 E 3,657,325.23 Sta 53+64.00

Ending chain GWMP_RMP_E22 description

Chain BH_RD description (Continued from Area 3)
Feature: - 50 Scale Baselines
Description: Proposed Balls Hill Road
=====

Course from PT BH_RD_04 to PC BH_RD_05 N 38° 22' 49.91" E Dist 381.01

Curve Data

Curve BH_RD_05
P.I. Station 40+31.31 N 473,604.87 E 3,653,513.46
Delta = 49° 30' 36.53" (RT)
Degree = 20° 27' 46.00"
Tangent = 129.11
Length = 241.95
Radius = 280.00
External = 28.33
Long Chord = 234.49
Mid. Ord. = 25.73
P.C. Station 39+02.20 N 473,503.66 E 3,653,433.29
P.T. Station 41+44.15 N 473,609.62 E 3,653,642.48
C.C. Station N 473,329.81 E 3,653,652.79
Back = N 38° 22' 49.91" E
Ahead = N 87° 53' 26.44" E
Chord Bear = N 63° 08' 08.18" E

Course from PT BH_RD_05 to BH101 N 87° 53' 26.44" E Dist 116.67

Point BH101 N 473,613.92 E 3,653,759.07 Sta 42+60.82

Ending chain BH_RD description

NOVA DISTRICT

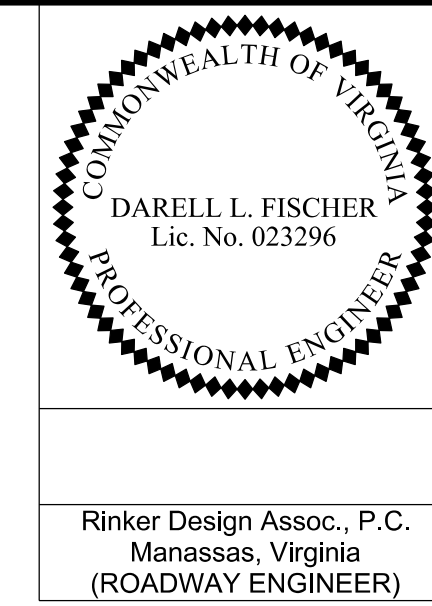
10/26/2022

APPROVED FOR CONSTRUCTION

VDOT PROJECT NO. 0495-029-419	SHEET NO. IG(2) AREA 4
----------------------------------	------------------------------

PROJECT MANAGER_VDOT - Rupal Shah, P.E. (703) 259-2362 SURVEYED BY, DATE_RDA - Nicholas Kaugall's, L.S. (703) 334-0837, 12/2021 DESIGN BY_RDA - Darrell Fischer, P.E. (703) 334-0823 SUBSURFACE UTILITY BY, DATE_Accumark - Michael Taylor, L.S. (703) 635-3060, 12/2021

Construction Alignment Data



REVISED	STATE	ROUTE	STATE	VDOT PROJECT NO.	SHEET NO.
	VA	495		0495-029-419 C501 RW201	1G(4) AREA 4

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

Rinker Design Assoc., P.C.
Manassas, Virginia
(ROADWAY ENGINEER)

Beginning chain G22_SWM_ENTR description
Feature: - 50 Scale Baselines
Description: Proposed SWM Entrance (BMP-14)

Point SWMENTG22013 N 474,956.08 E 3,655,126.15 Sta 10+00.00
Course from SWMENTG22013 to PC G22_SWM_ENTR1 N 29° 00' 37.63" W Dist 92.84

Curve Data

Curve G22_SWM_ENTR1
P.I. Station 11+07.32 N 475,049.94 E 3,655,074.10
Delta = 46° 45' 16.96" (LT)
Degree = 171° 01' 55.84"
Tangent = 14.48
Length = 27.34
Radius = 33.50
External = 3.00
Long Chord = 26.58
Mid. Ord. = 2.75
P.C. Station 10+92.84 N 475,037.27 E 3,655,081.12
P.T. Station 11+20.18 N 475,053.50 E 3,655,060.06
C.C. N 475,021.03 E 3,655,051.83
Back = N 29° 00' 37.63" W
Ahead = N 75° 45' 54.59" W
Chord Bear = N 52° 23' 16.11" W

Course from PT G22_SWM_ENTR1 to SWMENTG22014 N 75° 45' 54.59" W Dist 93.82

Point SWMENTG22014 N 475,076.57 E 3,654,969.12 Sta 12+14.00

Course from SWMENTG22014 to SWMENTG22015 N 81° 24' 14.34" W Dist 61.73

Point SWMENTG22015 N 475,085.80 E 3,654,908.09 Sta 12+75.73

Course from SWMENTG22015 to SWMENTG22016 N 75° 12' 25.11" W Dist 99.27

Point SWMENTG22016 N 475,111.14 E 3,654,812.11 Sta 13+75.00

Ending chain G22_SWM_ENTR description

Beginning chain LODENTR_1346LT description
Feature: - 50 Scale Baselines
Description: Proposed LOD Entrance STA. 13+46 LT

Point ENT201 N 474,062.84 E 3,653,425.66 Sta 10+00.00

Course from ENT201 to ENT202 N 33° 29' 00.12" W Dist 91.96

Point ENT202 N 474,139.54 E 3,653,374.92 Sta 10+91.96

Ending chain LODENTR_1346LT description

Beginning chain LODENTR_1665LT description
Feature: - 50 Scale Baselines
Description: Proposed LOD Entrance STA. 16+65 LT

Point ENT001 N 474,242.51 E 3,653,688.99 Sta 10+00.00

Course from ENT001 to ENT002 N 33° 29' 00.12" W Dist 100.00

Point ENT002 N 474,325.92 E 3,653,633.82 Sta 11+00.00

Ending chain LODENTR_1665LT description

Beginning chain LODENTR_1830LT description
Feature: - 50 Scale Baselines
Description: Proposed LOD Entrance STA. 18+30 LT

Point ENT003 N 474,333.74 E 3,653,826.90 Sta 10+00.00

Course from ENT003 to ENT004 N 33° 29' 00.12" W Dist 100.00

Point ENT004 N 474,417.14 E 3,653,771.73 Sta 11+00.00

Ending chain LODENTR_1830LT description

Beginning chain LANGLEYENT description
Feature: - 50 Scale Baselines
Description: Proposed Langley Entrance

Point LANGLEY001 N 473,862.94 E 3,653,161.98 Sta 20+00.00

Course from LANGLEY001 to PC LANGLEYENT_001 N 37° 11' 47.77" W Dist 28.00

Curve Data

Curve LANGLEYENT_001
P.I. Station 20+41.64 N 473,896.11 E 3,653,136.80
Delta = 60° 15' 37.96" (RT)
Degree = 243° 48' 42.58"
Tangent = 13.64
Length = 24.72
Radius = 23.50
External = 3.67
Long Chord = 23.59
Mid. Ord. = 3.18
P.C. Station 20+28.00 N 473,885.24 E 3,653,145.05
P.T. Station 20+52.72 N 473,908.66 E 3,653,142.15
C.C. N 473,899.45 E 3,653,163.77
Back = N 37° 11' 47.77" W
Ahead = N 23° 03' 50.19" E
Chord Bear = N 7° 03' 58.79" W

Curve Data

Curve LANGLEYENT_002
P.I. Station 20+57.57 N 473,913.12 E 3,653,144.05
Delta = 3° 50' 44.84" (RT)
Degree = 39° 39' 03.81"
Tangent = 4.85
Length = 9.70
Radius = 144.50
External = 0.08
Long Chord = 9.70
Mid. Ord. = 0.08
P.C. Station 20+52.72 N 473,908.66 E 3,653,142.15
P.T. Station 20+62.42 N 473,917.45 E 3,653,146.24
C.C. N 473,852.05 E 3,653,275.10
Back = N 23° 03' 50.19" E
Ahead = N 26° 54' 35.03" E
Chord Bear = N 24° 59' 12.61" E

Course from PT LANGLEYENT_002 to LANGLEY004 N 26° 54' 35.03" E Dist 38.69

Point LANGLEY004 N 473,951.95 E 3,653,163.75 Sta 21+01.10

Ending chain LANGLEYENT description

Beginning chain CELLTOWER2 description
Feature: - 50 Scale Baselines
Description: Proposed Cell Tower Access Road Area 4

Curve Data

Curve CELLTOWER21
P.I. Station 10+24.25 N 474,710.30 E 3,654,589.48
Delta = 46° 50' 00.55" (LT)
Degree = 102° 18' 50.01"
Tangent = 24.25
Length = 45.77
Radius = 56.00
External = 5.03
Long Chord = 44.51
Mid. Ord. = 4.61
P.C. Station 10+00.00 N 474,688.36 E 3,654,599.81
P.T. Station 10+45.77 N 474,717.77 E 3,654,566.40
C.C. N 474,664.49 E 3,654,549.16
Back = N 25° 13' 51.06" W
Ahead = N 72° 03' 51.61" W
Chord Bear = N 48° 38' 51.33" W

Curve Data

Curve CELLTOWER22
P.I. Station 12+00.43 N 474,765.39 E 3,654,419.27
Delta = 61° 17' 48.33" (RT)
Degree = 21° 57' 08.66"
Tangent = 154.65
Length = 279.23
Radius = 261.00
External = 42.38
Long Chord = 266.10
Mid. Ord. = 36.46
P.C. Station 10+45.77 N 474,717.77 E 3,654,566.40
P.T. Station 13+25.00 N 474,917.32 E 3,654,390.37
C.C. N 474,966.08 E 3,654,646.78
Back = N 72° 03' 51.61" W
Ahead = N 10° 46' 03.28" W
Chord Bear = N 41° 24' 57.44" W

Ending chain CELLTOWER2 description

APPROVED FOR CONSTRUCTION

NOVA DISTRICT

PROJECT MANAGER_VDOT - Rita Pal-Straub, PE, (703) 259-2362
 SURVEYED BY, DATE_RDA - Nicholas Kaugaulis, LS, (703) 334-0837, 1/2019
 DESIGN BY_RDA - Darrell Fischer, PE, (703) 334-0823
 Dewberry - Ron Jakomilich, PE, (703) 849-0651
 SUBSURFACE UTILITY BY, DATE_Accumark - Michael Taylor, LS, (703) 635-3060, 12/2021

REVISED	STATE	ROUTE	STATE VDOT PROJECT NO.	SHEET NO.
	VA.	495	0495-029-419 C501 RW201	IH AREA 4

UNDERGROUND UTILITIES TEST HOLE INFORMATION

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

PLAN SHEET	TEST HOLE	DISTANCE (FEET)	STATION & ROADWAY SURVEY BASELINE (N/A)	OWNER	TYPE OF FACILITY	(2) ELEV. (FEET)	(3) CONFLICT YES/NO	(4) REMARKS	UTILITY (5) ADJUSTMENT REQUIRED
6	1	77.24	18+69 RT LEW_RD	1	Not Excavated	N/A	N/A	Not Excavated	N
6	1A	77.24	18+69 RT LEW_RD	1	Not Excavated	N/A	N/A	Not Excavated	N
6	1B	77.24	18+69 RT LEW_RD	1	Not Excavated	N/A	N/A	Not Excavated	N
7	2	45.97	15+86 LT LEW_TRL	1	(3) 2.25" Elec. Cables	268.66	N	No Conflicts	N
7	2A	45.97	15+86 LT LEW_TRL	1	(2) 2.25" Elec. Cables	268.61	N	No Conflicts	N
7	2B	45.97	15+86 LT LEW_TRL	1	(2) 2.25" Elec. Cables	268.86	N	No Conflicts	N
6	3	N/A	N/A	1	Canceled	N/A	N/A	On Bridge	N
9C	4	31.95	14+95 LT ODD	2	0.4" Fiber Cable	261.69	Y	Drainage	Y
9	5	24.77	46+88 LT LEW_TRL	1	Electric	227.42	Y	Drainage	Y
9	5A	24.77	46+88 LT LEW_TRL	1	Electric	227.81	Y	Drainage	Y
9	5B	24.77	46+88 LT LEW_TRL	1	Not Excavated	N/A	Y	Drainage	Y
10	6	19.44	49+90 LT LEW_TRL	1	(3) 8" Elec. Conduits	226.78	N	No Conflicts	N
10	6A	19.44	49+90 LT LEW_TRL	1	Not Excavated	N/A	N	No Conflicts	N
10	6B	19.44	49+90 LT LEW_TRL	1	Not Excavated	N/A	N	No Conflicts	N
13N	7	30.15	20+40 LT GTP	3	(14) 1.5" Fiber Conduits	313.02	Y	Drainage	Y
				3	Fiber Vault	316.73	Y	Drainage	Y
17	8	13.77	40+28 RT LOD	4	8" Water	236.46	Y	Drainage	Y
17	9	14.65	40+54 RT LOD	4	8" Water	235.38	Y	Drainage	Y
5	10	4.76	40+99 LT DTR_RMP_E1	5	None Found	N/A	N	No Conflicts	N
5	10A	4.76	40+99 LT DTR_RMP_E1	5	Sanitary	263.10	N	No Conflicts	N
13N	11	54.98	17+62 RT GTP	6	2" Gas	308.32	N	No Conflicts	N
13N	11A	54.98	17+62 RT GTP	4	12" Water	305.39	N	No Conflicts	N
15	12	17.55	38+16 LT BH_RD	4	8" Water	278.02	N	No Conflicts	N
15	13	19.50	39+20 LT BH_RD	4	8" Water	275.72	Y	Drainage	Y
15	14	3.35	17+35 RT LOD	4	6" Water	243.89	N	No Conflicts	N
17	15	12.09	31+88 RT LOD	4	8" Water	208.92	N	No Conflicts	N
6	16	31.04	14+89 RT LEW_RD	7	4" CAFO Conduit	271.02	Y	Drainage	Y
6	17	31.58	13+91 RT LEW_RD	7	4" CAFO Conduit	270.04	Y	Drainage	Y
9D	18	15.85	31+39 RT ODD	6	2" Gas	253.81	Y	Drainage	Y
9D	19	11.53	32+90 LT ODD	6	6" Gas	259.40	Y	Drainage	Y
				7	(2) 0.75" CATV Cable	259.92	Y	Drainage	Y
13N	20	44.75	17+64 RT GTP	6	2" Gas	308.31	N	No Conflicts	N
13Q	21	36.64	32+48 RT GTP	6	2" Gas	286.72	N	No Conflicts	N
13Q	22	51.68	32+94 RT GTP	6	12" Gas	285.43	N	No Conflicts	N
13N	23	54.99	17+93 RT GTP	4	Water	306.74	N	No Conflicts	N
13Q	24	20.95	29+71 LT GTP	4	6" Water	299.09	N	No Conflicts	N
13Q	25	36.75	31+66 LT GTP	4	10" Water	288.00	Y	Drainage	Y
16	26	10.55	19+17 LT LOD	4	Water	228.65	Y	Drainage	Y
				Unk	Unknown Concrete	229.46			

PLAN SHEETS	TEST HOLES	DISTANCE (FEET)	STATION & ROADWAY SURVEY CENTERLINE	OWNER	TYPE OF FACILITY	(2) ELEV. (FEET)	(3) CONFLICT YES/NO	(4) REMARKS	UTILITY (5) ADJUSTMENT REQUIRED
16	27	2.42	19+92 RT LOD	4	Water	219.91	Y	Drainage	Y
				8	1" CATV Cable	224.76	Y	Drainage	Y
13	28	50.31	24+67 LT GTP	3	Fiber Optic	227.65	Y	Drainage	Y
13	29	53.96	25+38 LT GTP	3	Fiber Optic	281.70	Y	Drainage	Y
N/A	30	N/A	N/A	N/A	Not Excavated	N/A			
13	31	44.09	34+34 LT GTP	9	4" Fiber Conduit	308.59	Y	Drainage	Y
17	32	11.80	35+66 RT LOD	1	(3) 1" Elec. Cables	215.54	Y	Drainage	Y
17	33	68.04	35+83 RT LOD	1	2" Elec. Conduit	239.60	Y	Drainage	Y

NOVA DISTRICT

10/26/2022

UTILITY OWNERS
1 - Dominion Energy Andrew Brooks (804) 771-3655
2 - Verizon Virginia, Inc. Bill Lacy (703) 369-9571
3 - Lumen (CenturyLink, Level 3, Qwest) Brandie Varner brandie.varner@lumen.com
4 - Fairfax Water Rob Mehler (703) 289-6384
5 - Fairfax County Ned Langdon (703) 324-5002
6 - Washington Gas Mike Edwards (703) 402-1513
7 - Comcast Phung Dinh Phung_Dinh@comcast.com Amy Goad Amy_Goad@comcast.com
8 - Cox Michael Harrington Michael.Harrington@cox.com
9 - Crown Castle FiberSupport@crowncastle.com

ACCUMARK

9500 KING AIR COURT
ASHLAND, VA. 23005
(800) 542-2990 www.accumark.us

ACCUMARK #NV21-111

Fairfax County
ROUTE 495

TEST HOLE SUMMARY SHEET

DATE: 05-16-2022

- NOTES:
- (1) ALL TEST HOLES ARE REFERENCED FROM THE SURVEY BASELINE UNLESS OTHERWISE NOTED.
 - (2) ELEVATIONS SHOWN HEREON ARE TO THE TOP OF THE FACILITY UNLESS OTHERWISE NOTED.
 - (3) YES OR NO; NO INDICATES NO DIRECT CONFLICT, HOWEVER, CLEARANCE MAY BE LESS THAN ACCEPTABLE TO UTILITY OWNER.
 - (4) REMARKS TO INCLUDE CLEARANCE DIMENSION (REGARDLESS OF DISTANCE).
 - (5) YES OR NO; INFORMATION TO BE PROVIDED BY THE VDOT DISTRICT UTILITY ENGINEER.

- SEE TEST HOLE CERTIFICATION FORM FOR ADDITIONAL INFORMATION.

Revised 1-95
SPECIAL DESIGN SECTION
DRAWING NO. A-41

VDOT PROJECT NO. 0495-029-419	SHEET NO. IH AREA 4
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APPROVED FOR CONSTRUCTION

PROJECT MANAGER VDOT - Rimpal Shah, P.E. (703) 259-2362
SURVEYED BY, DATE RDA - Nicholas Kaugaulis LS (703) 334-0837, 1/2019
DESIGN BY RDA - Darrell Fischer, P.E. (703) 334-0823
SUBSURFACE UTILITY BY, DATE Accurmark - Michael Taylor, LS (703) 635-3060, 12/2021

Temporary Traffic Control General Notes

- 1. These temporary traffic control design plans - the traffic control devices and safety measures have been designed in conformance with the following:
- 2009 Manual of Uniform Traffic Control Devices (MUTCD), Revisions 1 and 2 (May 2012)
- 2011 Virginia Supplement to MUTCD, Revision 1 (September 2013)
- VDOT Virginia Work Area Protection Manual (VWAPM), 2011 Edition, Revision 2 (November 1, 2020)
- VDOT Road & Bridge Specifications, Vol. 1 and 2 (2016; Revised May 2020)
- VDOT Road & Bridge (R&B) Specifications (2020) (Divisions II - VIII only)
- Maintenance of Traffic (MOT) section of the approved Project Development Plan (PDP)
This project's TMP/SOC has been designed in conformance with a Type C TMP/SOC.

Allowable Lane Closure Hours

Table with columns for Weekday, Single-Lane Closures or Shoulder, Two-Lane Closures, Multiple-Lane Closures, Complete Road Closure. Includes sections for Interstate 495 (Beltway) and Express Lanes.

Table for Route 267 Connector with columns for Weekday, Single-Lane Closures or Shoulder, Complete Road Closure, Single-Lane Closures of Shoulder, Complete Road Closure. Includes Eastbound and Westbound directions.

Table for Single-Lane Closures* or Shoulder with columns for Arterial, Weekday, Friday, Friday to Saturday, Saturday to Sunday, Sunday to Monday.

Table for Multiple-Lane Closures with columns for Arterial, Weekday, Friday, Friday to Saturday, Saturday to Sunday, Sunday to Monday.

*Single-lane closures only permitted for multiple-lane roadways.
**Major Arterials defined as Primary Roads, high volume Secondary Roads, and all other routes that connect directly to Interstates.

- Notes:
1. Complete Road Closures: 30 minutes maximum or an approved time frame to facilitate the lifting and placing of bridge beams, demolition and removal of bridge elements, and erection or removal of overhead sign panels and other structures.
2. Complete Road Closures: Following a 30 minute closure, subsequent 30 minute closures are not permitted until traffic has returned to free flow conditions and all traffic stopped from the previous closure has passed the construction site.
3. Multiple lane closures shall use the Auxiliary travel (shoulder) lane, as approved, per the lane closure approval process.
4. Limited Access Highways are defined as high speed high volume roadways with limited access, such as Dulles Toll Road, Dulles Airport Access Road, Dulles Connector Road and the George Washington Memorial Parkway.
5. Major Arterials are defined as Primary Roads, high volume Secondary Roads, and all other routes that connect directly to Interstates, such as Rte. 123, Rte. 694, Rte. 738 and Rte. 193.
6. Single-lane closures are only permitted for multiple-lane roadways.
7. Long-term closures of the shoulders adjacent to the general purpose lanes are allowable pursuant to the applicable provisions of these Technical Requirements.
8. Some roadway closures will require coordination and permit(s) with the agency having jurisdiction over the roadway. These allowable hours shall be applicable to both stationary and mobile lane closures, as well as shoulder closures.
8.7 Holidays
A. Moving/mobile, short duration, short-term stationary, or intermediate-term stationary temporary traffic control zone lane closures on mainline lanes, shoulders, or ramps shall not be performed during the following Holiday time periods without the written permission of the Concessionaire.
- January 1: From noon on the preceding day until noon on the following day, except as indicated in Section 1.8.7.B below.
- Inauguration Day: From 3:30 p.m. on the preceding day until 9:30 a.m. on the following day.
- Martin Luther King, Jr. Day: From noon on the preceding Friday to noon on the following Tuesday.
- Presidents Day: From noon on the preceding Friday to noon on the following Tuesday.
- Easter: From noon on the preceding Friday to 9:30 a.m. on the following Monday.
- Memorial Day: From noon on the preceding Friday to noon on the following Tuesday.
- July 4: From noon on the preceding day until noon on the following day, except as indicated in Section 1.8.7.B below.
- Labor Day: From noon on the preceding Friday to noon on the following Tuesday, except as indicated in Section 1.8.7.B below.
- September 11: No daytime closures.
- Columbus Day: From noon on the preceding Friday to noon on the following Tuesday.
- Election Day (the Tuesday following the first Monday in November): No daytime closures.
- Veterans Day: From noon on the preceding day until noon on the following day, except as indicated in Section 1.8.7.B below.
- Thanksgiving Day: From noon on the Wednesday preceding Thanksgiving Day until noon on the following Monday.
- Christmas Day: From noon on the preceding day until noon on the following day, except as indicated in Section 1.8.10.B below.
B. If the Holiday occurs on a Friday or Saturday, no lane closures will be permitted from 5:00 a.m. on the preceding Thursday to Noon on the following Monday. If the Holiday occurs on a Sunday or Monday, no lane closures will be permitted from 5:00 a.m. on the preceding Friday to Noon on the following Tuesday.

- 4. Impacted existing entrances: All existing commercial or private entrances shall remain open for the duration of construction unless otherwise indicated on this plan.
5. Impacted existing Interchanges/Intersections: There are 3 impacted Interchanges within the project limits:
- I-495 Northbound/Southbound at Dulles Toll Road (Rte. 267)
- I-495 Northbound/Southbound at Georgetown Pike (Rte. 193)
- I-495 Northbound/Southbound at George Washington Memorial Parkway
All Interchanges are to remain fully operational during construction.
There are 3 impacted signalized intersections within the project limits:
- I-495 Northbound Entrance/Exit Ramp at Georgetown Pike (Rte. 193)
- I-495 Southbound Entrance/Exit Ramp at Georgetown Pike (Rte. 193)
- Georgetown Pike (Rte. 193) at Balls Hill Road
There are 9 impacted unsignalized intersections within the project limits:
- Lewinsville Road (Rte. 694) at Timberly Lane
- Lewinsville Road (Rte. 694) at Snow Meadow Lane
- Lewinsville Road (Rte. 694) at Scotts Run Road
- Old Dominion Drive (Rte. 738) at Dominion Court
- Old Dominion Drive (Rte. 738) at Dulany Drive
- Old Dominion Drive (Rte. 738) at Mottram Drive
- Georgetown Pike (Rte. 193) at Helga Place/Liganore Drive
- Georgetown Pike (Rte. 193) at Dead Run Drive
- Balls Hill Road at Live Oak Drive
All Intersections are to remain open during construction unless otherwise indicated on this plan.

- 6. Impacted existing pedestrian access points:
- Pedestrian sidewalks along Eastbound and Westbound Lewinsville Road
- Pedestrian crosswalks at the Lewinsville Road/Timberly Lane Intersection
- Pedestrian crosswalks at the Lewinsville Road/Scotts Run Road Intersection
- Pedestrian crosswalks at the Balls Hill Road/Georgetown Pike (Rte. 193) Intersection
- Pedestrian sidewalk along a segment of Balls Hill Road (Benjamin Street to Georgetown Pike)
The Design-Builder is to minimize impacts and provide safe passage, where necessary, for pedestrians and bicyclists within the project limits for the duration of construction.

- 7. Impacted existing bus stops: There is one impacted bus stop within the project limits. It is located along Westbound Lewinsville Road (Rte. 694), near the intersection of Timberly Lane. The impacted bus stop must remain fully operational for the duration of construction. Reference Section 2.1.6 of Part 2 of the Technical Requirements for required coordination with schools and other local entities.
8. Major types of travelers: The roadways associated with this project carry a large, diverse type of travelers. In the peak hours, commuters are the prevailing traveler type.

General Notes

- 9. Unless otherwise approved or directed by the engineer or MOT Manager, the Design-Builder shall plan and prosecute the work in accordance with the following sequence of construction and temporary traffic control plans and this shall be coordinated with the bridge plans.
10. It is not the intent of the Sequence of Construction plan to enumerate every detail which must be considered in the construction of each stage, but only to show the general handling of traffic. Work outside the roadway clear zone is not intended to be limited to a specific sign stage.
11. At the conclusion of each workday, all pavement edge drop-offs shall meet the requirements of Figure 2 in Appendix A of the Virginia Work Area Protection Manual for the safety and protection of vehicular traffic.
12. Traffic barrier service shall be installed and removed so as not to present any blunt end or hazard to the motoring public. The placement and removal of the traffic barrier service and barricades are to be coordinated by the MOT Manager or MOT Coordinator.
13. The sequence of construction / traffic control plans show only the traffic patterns necessary to construct this project. The Design-Builder will also be responsible for daily traffic control such as lane closures, flagging, etc. to properly maintain traffic throughout the project. Road closures exceeding 30 minutes will require Detour plans and VDOT's approval.
14. Unless otherwise noted on the plans, access must be maintained for all existing ramps except during the approved hours specified in RFP Technical Requirements, Part 2. Ramp closures during the approved hours must be coordinated, reviewed and approved in advance with impacted agencies, including, but not limited to, VDOT, Transurban (CBE), MWAA, NPS, FHWA Eastern Lands Division and MDOT-SHA in accordance with the provisions of the TMP.
15. The clear zone is to be kept free of fixed objects, including but not limited to, signage without breakaway posts, stored materials and parked equipment (for clear zone widths, refer to the Virginia Work Area Protection Manual). Where material is stored or vehicles are parked behind guardrail, a minimum offset of 5 feet is to be maintained from the face of the guardrail to any material, equipment or vehicles. Sight distances at intersections should not be impacted by materials, equipment, or traffic control devices. Nothing is to be stored within the temporary barrier manufacturer's recommended deflection area for longer than 3 days in accordance with the VWAPM, Appendix A. Where Fixed object/hazards are located within clear zone, adequate protection (i.e. temporary barrier, guardrail, etc.) must be provided based on Length of Need determination, as summarized in the VDOT GRIT Manual.
16. Advanced signing and any other required traffic control devices associated with each section of the Project are to be installed prior to beginning construction in that section. All conflicting traffic control devices are to be removed or modified as necessary. Group 2 Channelizing devices may be used to close adjacent lane/shoulder (TTC-4.2/16.2), as necessary, to establish the work space prior to setting barrier service and beginning construction activities.
17. Temporary barrier shall be pinned/anchored per the requirements in VWAPM, Appendix A, where necessary.
18. Temporary lane widths on all roadways affected by the work zone or traffic control devices shall be no less than 11 feet, unless otherwise shown on plans. Barrier offsets from travel lane shall be no less than 1 foot. The TMP shall be designed to meet the posted speed.

- 19. The Design-Builder shall install W11-V2 48"x48" diamond shaped "Construction Entrance" signs in advance of construction entrances. All construction access areas will be installed in compliance with Section 66-27 of the VWAPM (Length - 1320 min. for locations serving both accel./decel.) where adequate space is not available, Design-Builder to utilize off-peak and/or night-time lane and/or shoulder closures. Design-Builder has the ability to open/close construction entrances to facilitate construction needs.
20. For all long-term work zones, existing conflicting pavement markers and pavement markings shall be removed per Figure TTC-55.1 of the VWAPM. The Design-Builder shall install temporary raised pavement markers and temporary pavement markings per Figure TTC-60.0 of the VWAPM. Remove the reflective elements from the existing raised pavement markers where lanes have been shifted.
21. All long-term temporary signs shall be installed on breakaway wood posts or breakaway square tube steel sign posts unless otherwise protected from traffic by guardrail or temporary barrier. Signage locations shown on the plans are in accordance with the standards; however, where field conditions do not allow, the Design-Builder has the ability to coordinate with VDOT and the Inspector to modify the location.
22. This TMP/SOC Plan is intended to be a guide. This plan does not alleviate the Design-Builder from meeting the requirements of the VWAPM should field conditions deviate.
23. Unless otherwise shown, the Design-Builder shall maintain and relocate (if necessary) all existing regulatory, warning, and guide signs until new facilities are opened. Replacement signs are to be installed prior to the removal of the applicable existing signs, unless otherwise noted. As facilities are opened, final configurations, the Design-Builder shall install traffic control devices per the signing and marking plans. The sequence of construction for overhead (major) guide signs is detailed in the TMP/SOC Plans.
24. Signs to be temporarily covered shall be completely covered by a non-transparent material.
25. The Temporary Traffic Control Plans have been designed to best accommodate ramps, intersecting streets and driveways; however, all signs and channelizing devices may be adjusted backwards or forwards as field conditions dictate.
26. It shall be the Design-Builder's responsibility to accommodate safe and efficient snow removal operations and to maintain proper drainage during all phases of construction.
27. Temporary Concrete Barrier will be MB-7D PC or PCB-I on roadway segments unless otherwise noted on the plans. In most cases along bridges, MB-10A/IIA is noted and is required.
28. Unless otherwise approved by the MOT Manager and VDOT, access must be maintained at all times to any impacted existing emergency crossovers.
29. Standard/typical concrete barrier slots will be provided for the entire length of the project to mitigate surface drainage adjacent to concrete barrier. See VDOT R&B STDs for additional detail.
30. Design-Builder to place Type B warning lights, barrier panels, and barrier delineators on top of concrete barrier in accordance with the Virginia Work Area Protection Manual (VWAPM), Revision 2.1.
31. The mill and overlay areas to be done in accordance with VWAPM, Rev. 2.1, and s/d ACOT-1, where appropriate, to ensure smooth transitions.
32. Schedule all phases of construction in such a manner that water, sanitary sewer, cable, fiber cable/optic cable, loop detection, any overhanging utilities, and any underground utility services will not be interrupted.
33. During non-working hours, all stored construction equipment is to stay outside of the construction area clear zone or barrier deflection as designated in the VWAPM, Appendix A. If the barrier deflection area is not clear of stored construction equipment, pinned barrier is required. Construction equipment is not to block or obstruct sight distance along highway/roadway or at any intersection or private entrance within the project limits when the construction work zone is active.
34. Design-Builder shall follow the geotechnical recommendations for the project. Materials designated as unsuitable material as detailed in the geotechnical recommendations shall be disposed of off site and are not to be used for any part of construction.
35. Each phase of construction shall be completed to the installation of intermediate course asphalt prior to the start of the next phase unless otherwise directed by the Engineer.
36. Design-Builder shall ensure positive drainage of storm sewer pipes, structures, and facilities during all phases of construction, for the duration of the project. The Design-Builder shall construct drainage features that are fully contained within the work areas shown, as shown on the TTC drawings. The Design-Builder shall add any additional temporary measures necessary to facilitate proper positive drainage for the duration of construction. For any drainage feature necessary to be constructed, but is not contained within the work areas, the Design-Builder shall use appropriate short term TTC layouts to facilitate construction, in accordance with the allowable lane closure policy.
Where adjustments or additional TTC measures are necessary for the Jack and bore operations, the Design-Builder shall follow VWAPM to complete the work. The Jack and bore construction shall follow in accordance with the VDOT Special Provision for Jack and Bore (dated December 12, 2018) and Section 302.0.3 of the VDOT 2020 Road and Bridge Specifications in accordance with TR Attachment 1.5A.
37. Group 2 Channelizing Devices or barrier are required for unmanned work zones on long-term stationary work zones. Where Group 2 Channelizing Devices are used to separate the Construction Area and traffic, a minimum clear zone area as defined in the VWAPM is to be maintained. Group 2 Channelizing Devices shown on the plan are schematic. Design-Builder shall follow VWAPM guidelines for device spacing along transitions and parallel to the roadway.
38. The Design-Builder shall provide access as necessary for the Interstate maintenance (TAMS) VDOT to provide snow removal. No lane closures will be permitted during snow mobilizations of Level 2 or above. With the exception of snow removal, the Design-Builder shall be responsible for all typical repairs and maintenance such as guardrails, grass cutting, pothole repair, refurbishing raised pavement markers, and refurbishing pavement markings as needed per RFP, beginning when construction activities commence, and ending upon Final Acceptance of the Project for any portion thereof.

Table with columns: REVISED, STATE, ROUTE, STATE, VDOT PROJECT NO., SHEET NO. Values: VA, 495, 0495-029-419 C501 RW201, IJ AREA 4

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

CONTACT NUMBERS

Contact list table with columns: Role, Name, Phone Number. Includes Project Manager (Rimpal Shah), Construction Manager (Dave Reynolds), and Emergency Call (911).

Box containing TMP/SOC Designer information: John A. Giometti, P.E., VDOT Certificate No. 08312101, and Commonwealth of Virginia VDOT logo.

Table with columns: VDOT PROJECT NO., SHEET NO. Values: 0495-029-419, IJ AREA 4

APPROVED FOR CONSTRUCTION

PROJECT MANAGER VDOT - Rinaldi, Shab, PE, (703) 259-2362
 SURVEYED BY, DATE RDA - Nicholas, Kaugaulis, LS, (703) 334-0837, 1/2019
 DESIGN BY RDA - Darrell, Fischer, PE, (703) 334-0823
 Dewberry - Ron, Jakomilich, PE, (703) 849-0651
 SUBSURFACE UTILITY BY, DATE Accumark - Mitchell, Taylor, LS, (703) 635-3060, 1/2/2021



REVISED	STATE	ROUTE	STATE	VDOT PROJECT NO.	SHEET NO.
	VA	495		0495-029-419 C501 RW201	I(J)(A) AREA 4

Temporary Traffic Control Narrative and Typical Sections Phase IA

Sequence of Construction Phase IA/IA2/IA3

Purpose: Install temporary traffic control devices including work zone signs, temporary pavement markings and raised markers, concrete barrier service and channelizing devices. These protective measures will allow construction of:
 - I-495 Northbound outside widening
 - Live Oak Drive bridge
 - Balls Hill Road mill & overlay
 - Balls Hill Road mill & overlay
 - Balls Hill Trail
 - George Washington Memorial Parkway Ramp G22
 - George Washington Memorial Parkway Ramp G23

Advanced signing and any other required traffic control devices associated with each section of the project are to be installed prior to beginning construction in that section. All conflicting traffic control devices are to be removed or modified, as necessary. Group 2 Channelizing devices may be used to close adjacent lane/shoulder (TTC-4.2/16.2), as necessary, to establish the work space prior to setting barrier and beginning construction activities.

All mill & overlay locations shown in the plans, where located under traffic or barrier, shall be constructed utilizing off-peak lane/shoulder closures, as allowed per note 3 on sheet J.

Contractor shall implement Virginia Work Area Protection Manual, 2011 Edition, Revision 2.1, typical applications for this package may include, but not limited to: TTC-1, 4, 2, 5, 2, 6, 2, 7, 1, 16, 2, 17, 2, 18, 2, 23, 2, 28, 2, 37, 2, 38, 2, 39, 2, 40, 2, 53, 0, 55, 1, 60, 0, 63, 2 or other typical applications, as necessary.

Install temporary pavement markings, raised markers, signage and other temporary traffic control devices, as required per VWAPM, including barrier flare rates and warning lights to protect work areas as shown on the plans.

Install temporary traffic barrier service, Group II Channelizing Devices and impact attenuators TL-3, Type I, throughout the project as shown on the plans. Contractor has the ability to remove these items once no longer required to protect work area.

All construction entrances shown may not be open/active throughout this entire phase of construction. The Contractor has the ability to open and close construction access points, as necessary, as construction progresses. The construction entrances shown are suggested locations, and may be moved as field conditions dictate.

Temporary custom overhead guide signs and modifications and skid/post design will be detailed as part of shop drawings for review by engineer and the Department prior to fabrication. The construction in the immediate area of these sign locations and the associated protection will need sequenced to move to an appropriate completed area, to then allow completion of the original location.

Refer to separate utility plans, under separate cover, for utility relocations associated with the project.

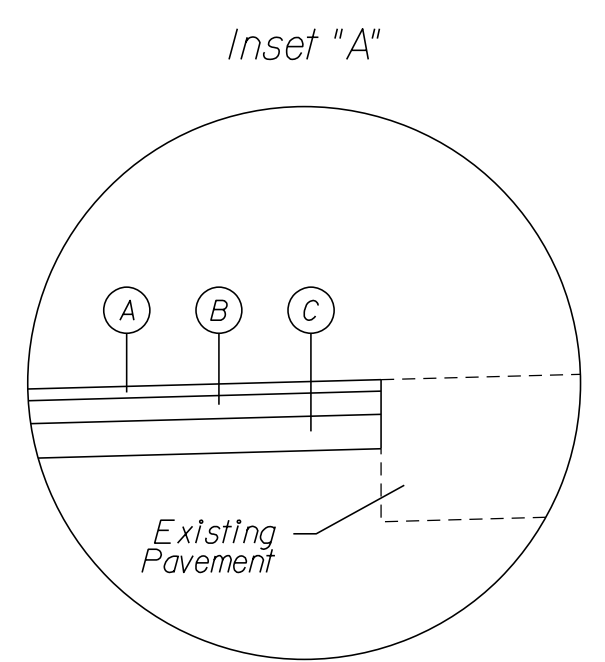
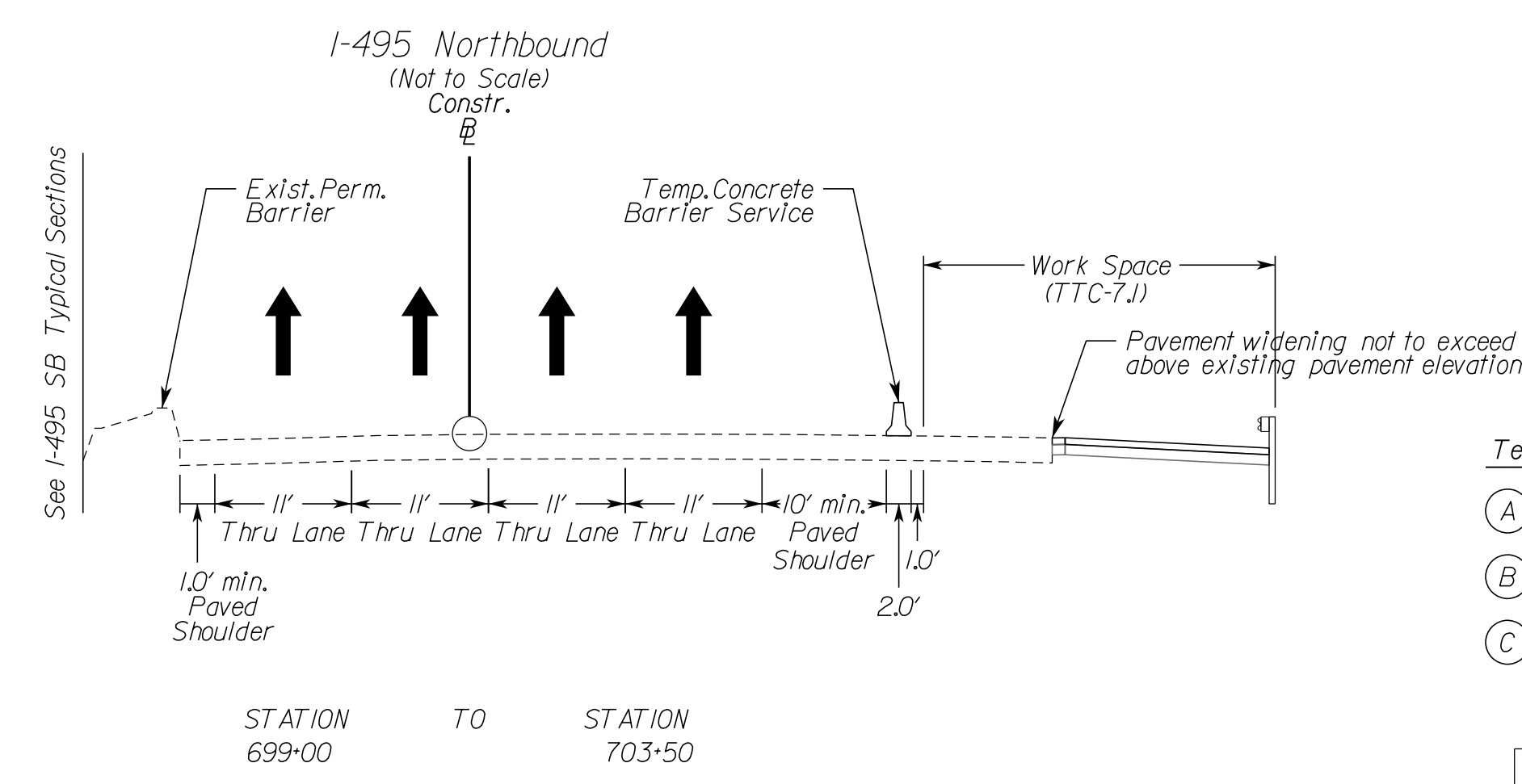
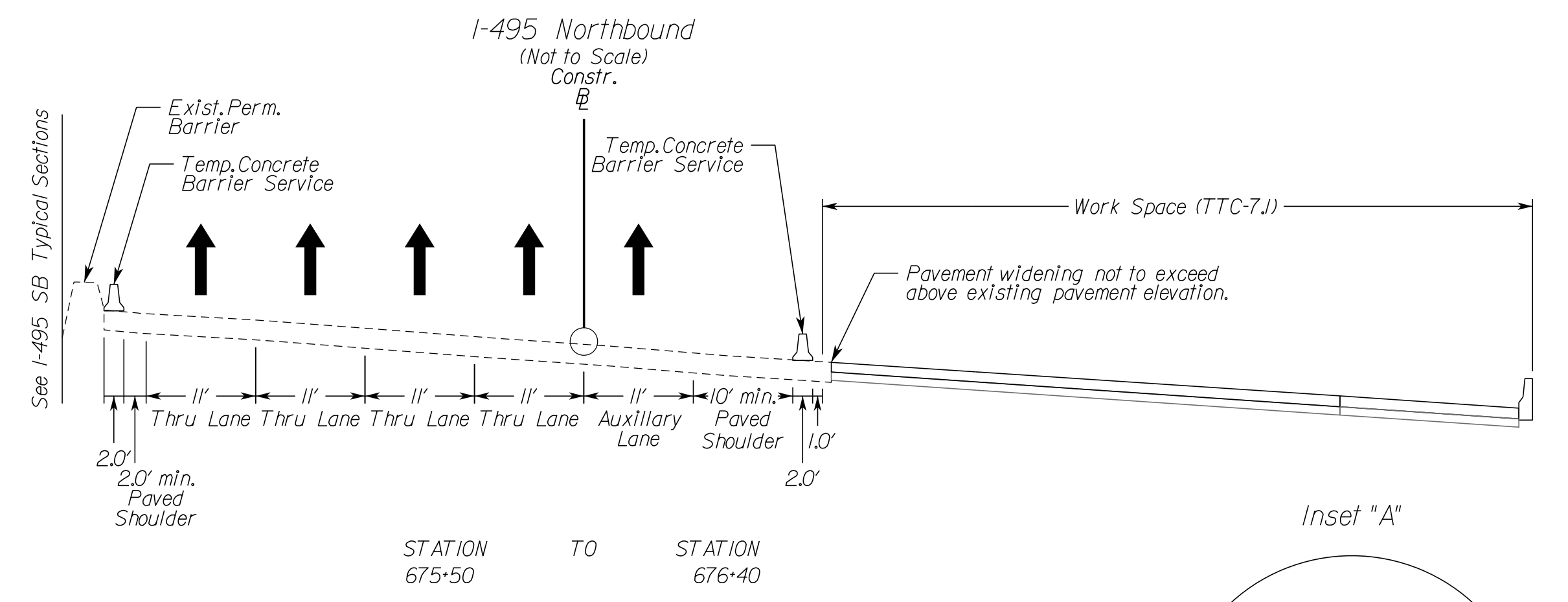
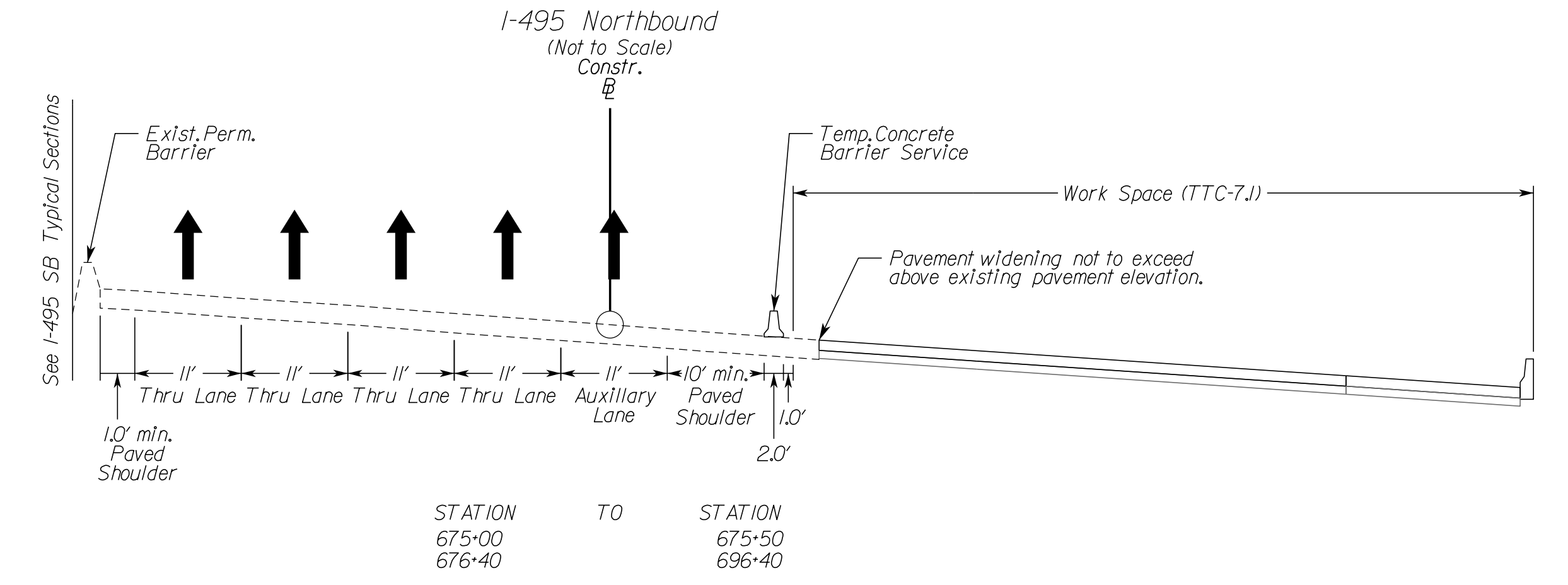
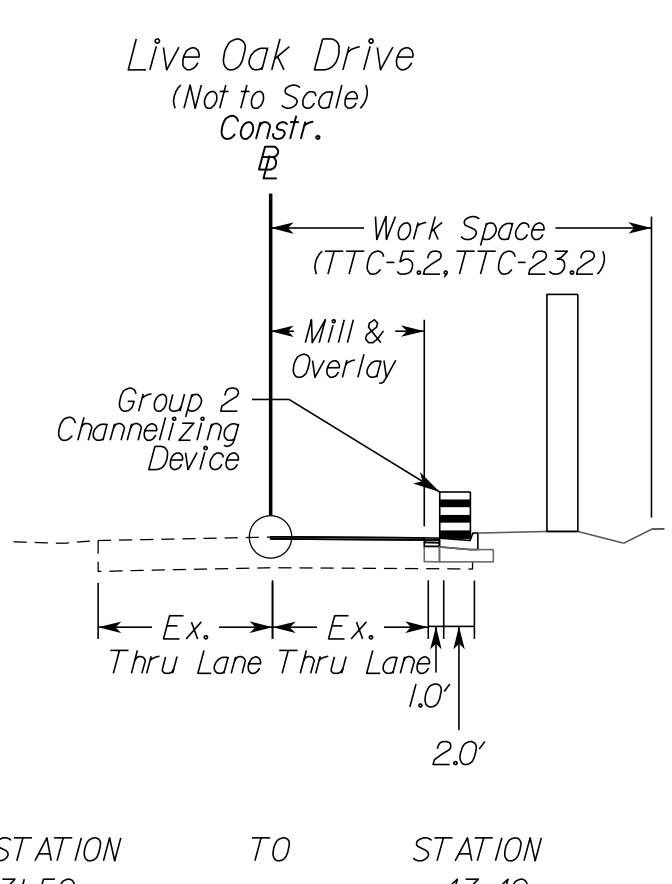
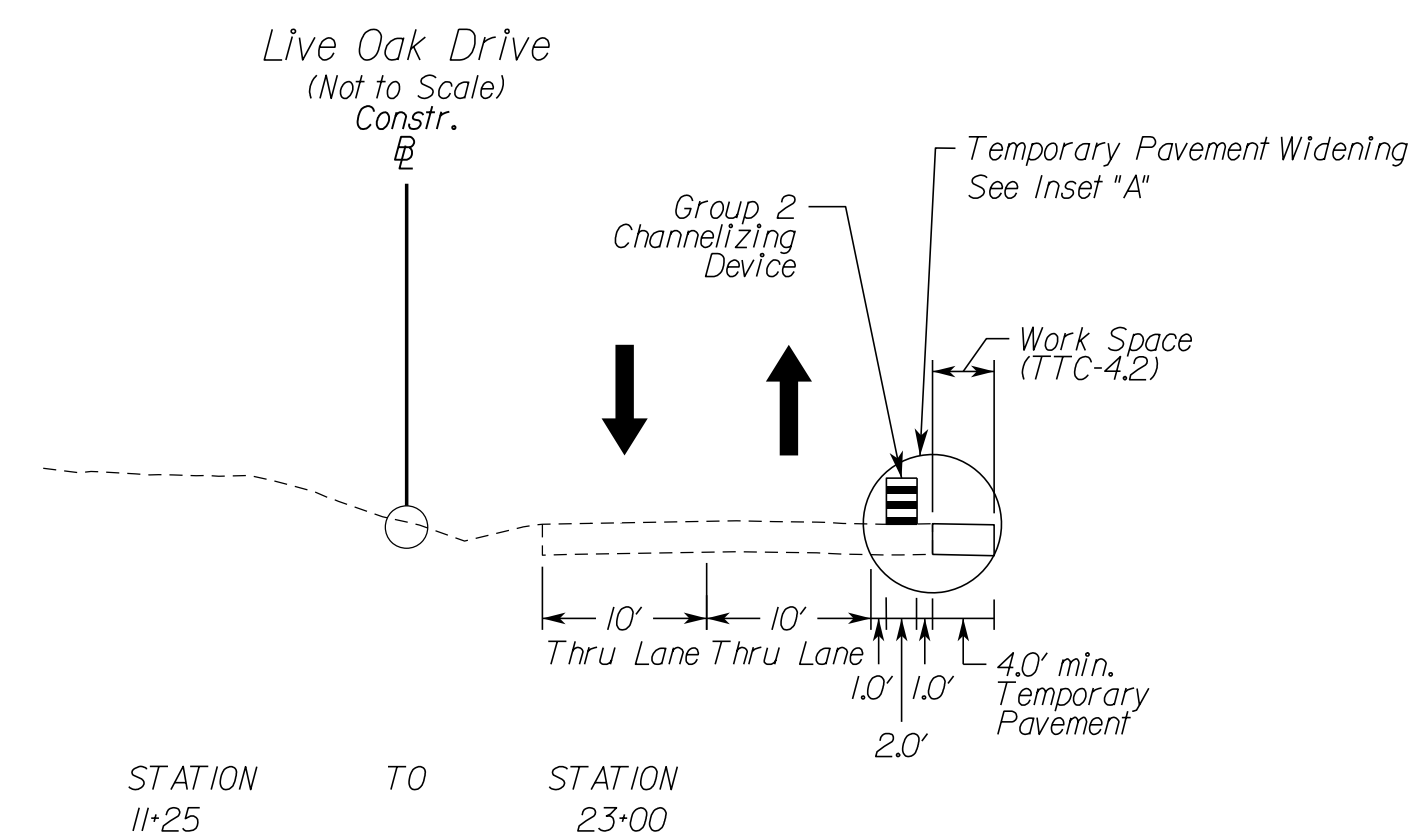
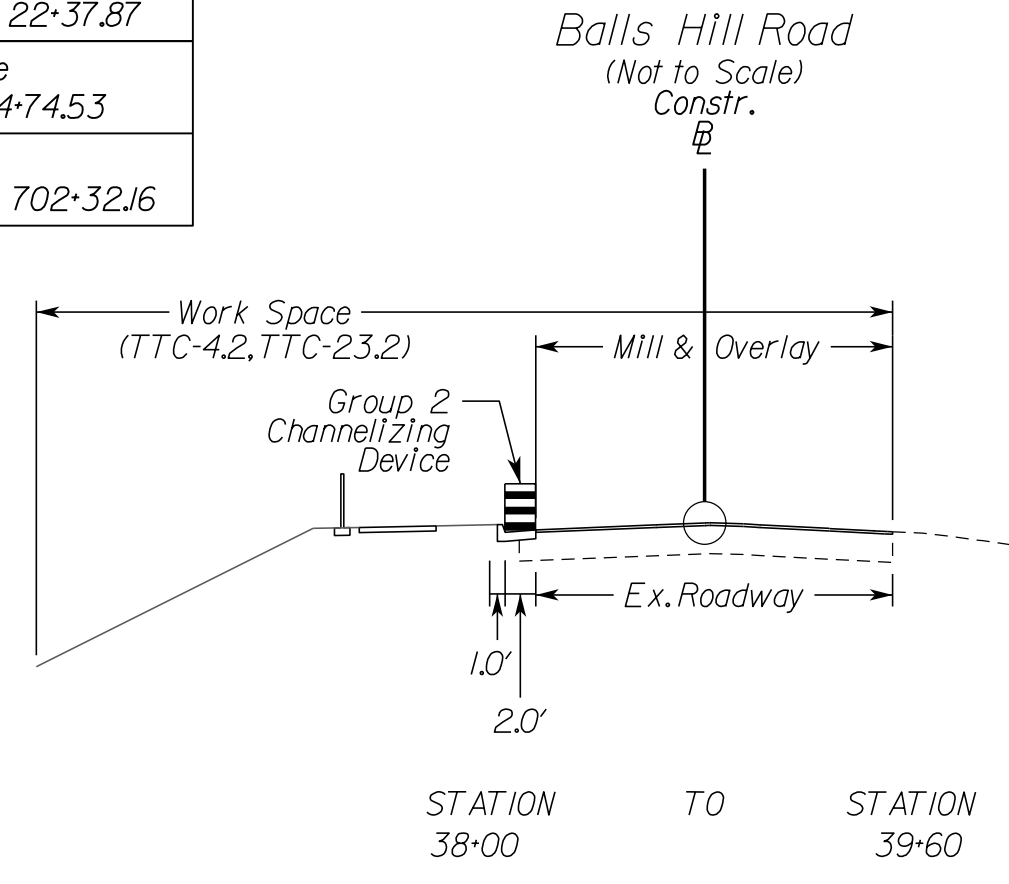
Refer to ITS plans, under separate cover, for PCMS locations and CCTV adjustments.

Posted/Design Speed Summary Table

Area	Ramp/Roadway	Speed (mph)
AI,A2,A3,A4	I-495 General Purpose Lanes	55
AI,A2,A3,A4	I-495 Express Lanes	65 (south of GTP) 55 (north of GTP)
AI	Dulles Access Road	55
AI	Dulles Toll Road (SR 267)	55
AI	Temporary DTR Ramp (I-495 N to SR 267 W)	40
AI	Proposed DTR Ramp E1 (SR 267 E to I-495 N XL)	30 (ramp advisory)
AI	Proposed DTR Ramp E3 (SR 267 W to I-495 N XL)	30 (exit advisory)
AI	Existing DTR Ramp E4 (SR 267 E to I-495 S)	35 (exit advisory) 25 (ramp advisory)
AI	Proposed DTR Ramp E4 (SR 267 E to I-495 S XL)	30 (ramp advisory)
AI	Existing DTR Ramp (SR 267 E to I-495 N)	25 (ramp advisory)
AI	Proposed DTR Ramp G3 (SR 267 E to I-495 N)	25 (ramp advisory)
AI	Existing DTR Ramp (I-495 N XL to SR 267 W)	45 (ramp advisory) 25 (ramp advisory)
AI	Existing DTR Ramp (I-495 N to SR 267 W)	25 (exit advisory)
AI	Existing DTR Ramp (I-495 S to SR 267 E)	25 (exit advisory)
AI	Existing DTR Ramp (I-495 S to SR 267 W)	40 (exit advisory)
AI,A2	Existing DTR Ramp G10 (SR 267 W to I-495 N)	30 (exit advisory)
AI,A2	Proposed DTR Ramp G10 (SR 267 W to I-495 N)	30 (exit advisory)
A2	Lewisville Road	35
A2	Old Dominion Drive (SR 738)	40
A3	Georgetown Pike (SR 193)	35
A3	Existing GTP Ramp NE (SR 193 to I-495 N)	not posted (30 min. used)
A3	Proposed GTP Ramp NE (SR 193 to I-495 N)	30
A3	Existing GTP Ramp SE (I-495 N to SR 193)	35 (exit advisory)
A3	Proposed GTP Ramp SE (I-495 N to SR 193)	30 (exit advisory)
A3	Existing GTP Ramp NW (I-495 S to SR 193)	45 (exit advisory)
A3	Proposed GTP Ramp NW (I-495 S to SR 193)	30 (exit advisory)
A3	Existing GTP Ramp SW (SR 193 to I-495 S)	not posted (30 min. used)
A3	Proposed GTP Ramp SW (SR 193 to I-495 S)	30
A3,A4	Balls Hill Road	25
A4	Live Oak Drive	25
A4	George Washington Memorial Parkway	50
A4	Proposed GWMP Ramp E21 (GWMP to I-495 S XL)	30 (exit advisory)
A4	Proposed GWMP Ramp E22 (I-495 N XL to GWMP)	30 (ramp advisory)
A4	Existing GWMP Ramp (GWMP to I-495 S)	40 (exit advisory)
A4	Proposed GWMP Ramp G21 (GWMP to I-495 S)	30 (exit advisory)
A4	Existing GWMP Ramp (I-495 S to GWMP)	25 (exit advisory)
A4	Proposed GWMP Ramp G22 (I-495 S to GWMP)	25 (ramp advisory)
A4	Existing GWMP Ramp (I-495 N to GWMP)	not posted (30 min. used)
A4	Proposed GWMP Ramp G23 (I-495 N to GWMP)	30 (ramp advisory)
A4	Existing GWMP Ramp G24 (GWMP to I-495 N)	40 (exit advisory)

Retaining Wall / Sound Wall Summary Table (Phase IA Construction)

Name	Baseline/Station Range
RW 15	Balls Hill Trail Baseline Sta. 29+50.00 to Sta. 34+66.54
RW 16A	Balls Hill Trail Baseline Sta. 29+50.00 to Sta. 44+54.95
RW 37	Balls Hill Trail Baseline Sta. 37+34.65 to Sta. 38+11.0
RW 19	Balls Hill Trail Baseline Sta. 39+66.55 to Sta. 44+55.05
RW 36	GWMP Ramp G22 Baseline Sta. 21+72.22 to Sta. 22+37.87
RW 35	Live Oak Drive Baseline Sta. 13+90.51 to Sta. 14+74.53
Noise Barrier 9	495NB Baseline Sta. 676+34.31 to Sta. 702+32.16



- Temporary Pavement Inset Legend**
- (A) Asphalt Concrete Intermediate Course, Type IM-19.0D - 2 Inch Depth
 - (B) Asphalt Concrete Base Course, Type BM-25.0A - 4 Inch Depth
 - (C) Aggr. Base Mat'1, Type 1, Size No. 21B - 6 Inch Depth

VDOT PROJECT NO. 0495-029-419	SHEET NO. I(J)(A) AREA 4
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APPROVED FOR CONSTRUCTION

NOVA DISTRICT

10/26/2022

PROJECT MANAGER_VDOT - Rupal Shah, P.E. (703) 259-2362
 SURVEYED BY, DATE_RDA - Nicholas Kougoullis, L.S. (703) 334-0837, 1/2019
 DESIGN BY_RDA - Darrell Fischer, P.E. (703) 334-0823
 Dewberry - Ron Jakomilich, P.E. (703) 849-0651
 SUBSURFACE UTILITY BY, DATE_Accumark - Michael Taylor, L.S. (703) 635-3060, 12/2021

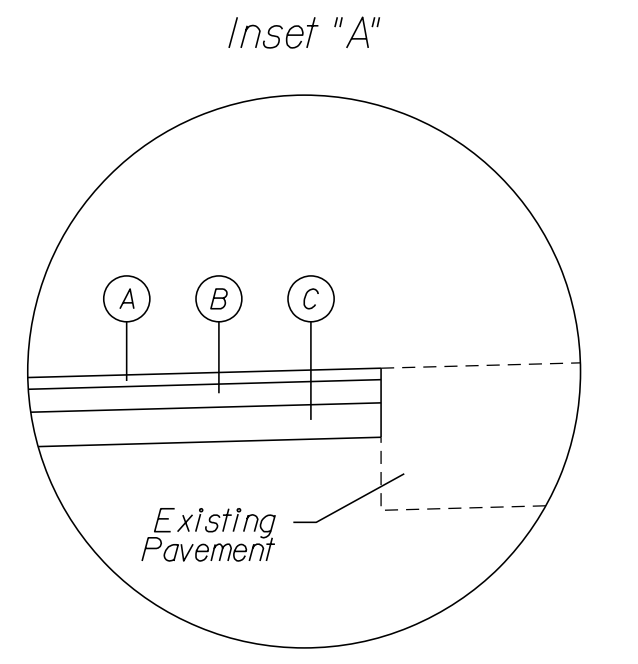
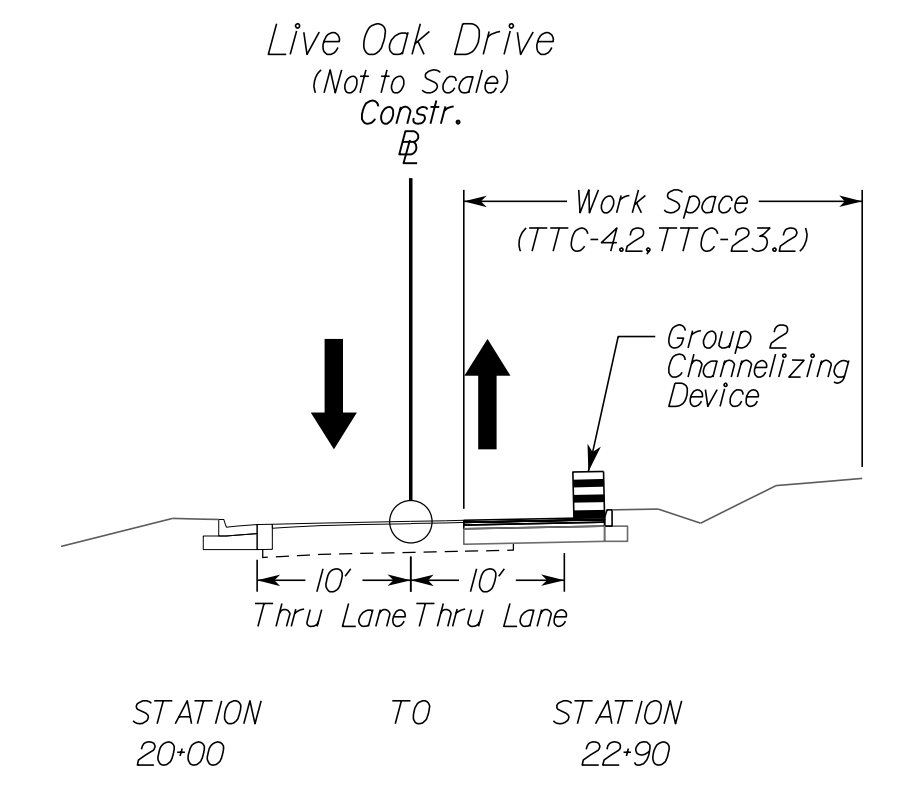
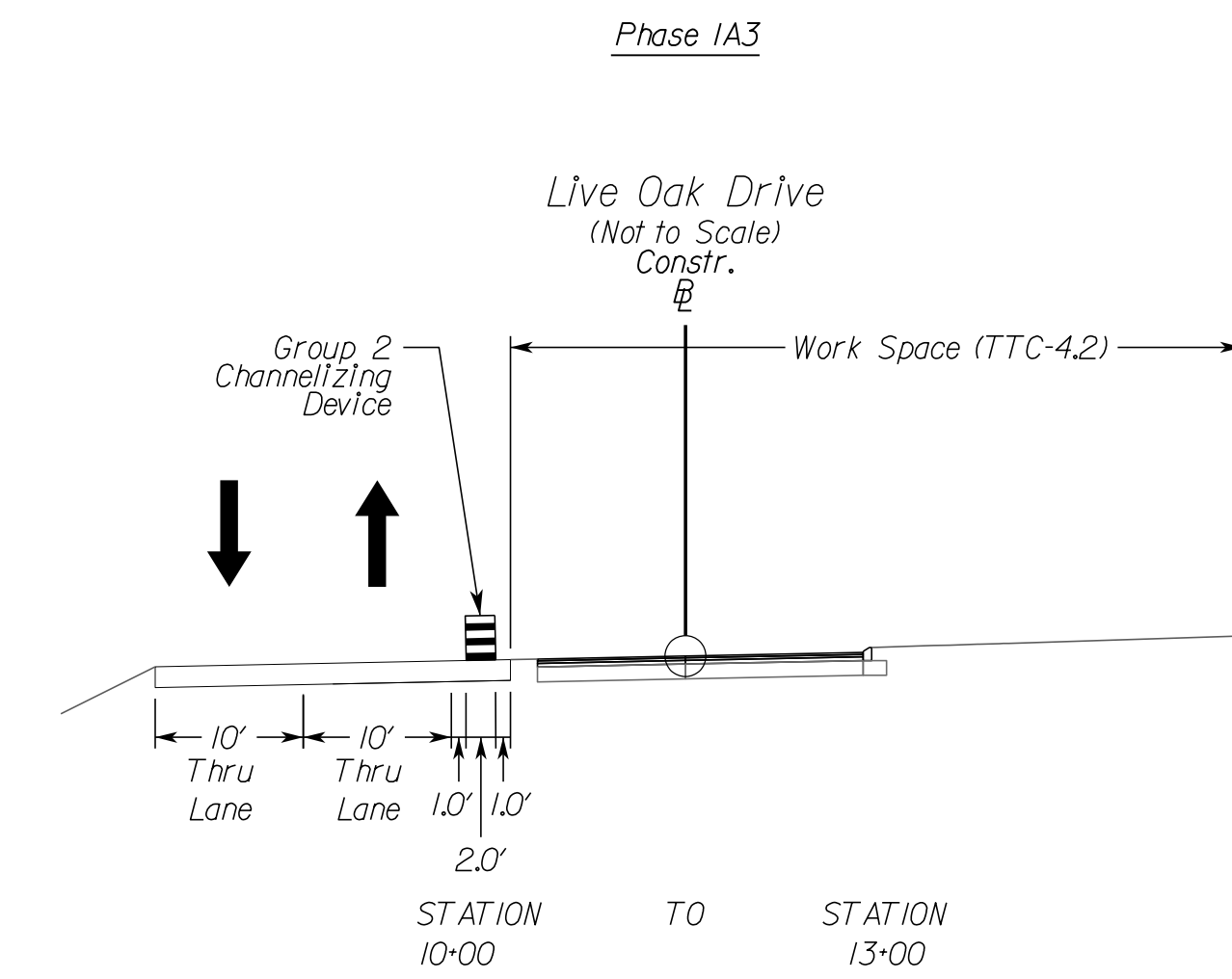
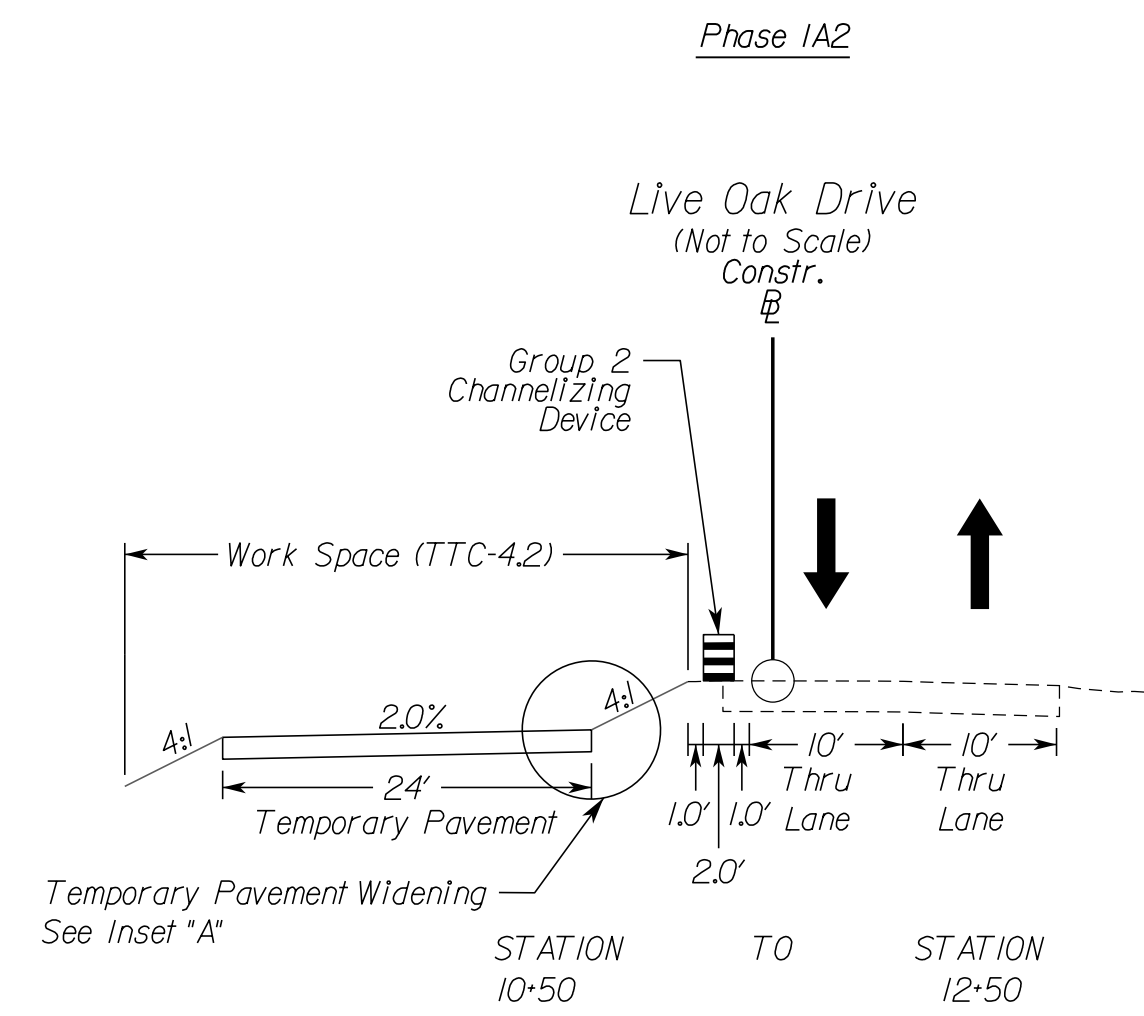
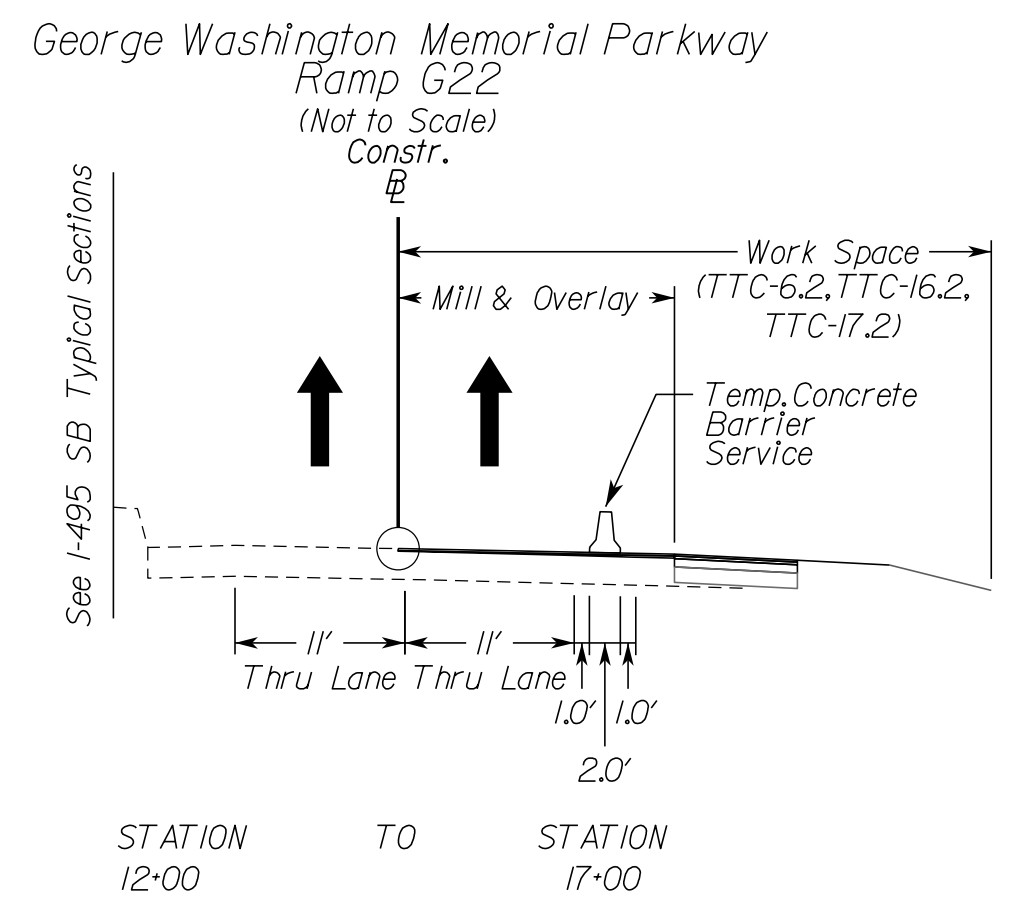
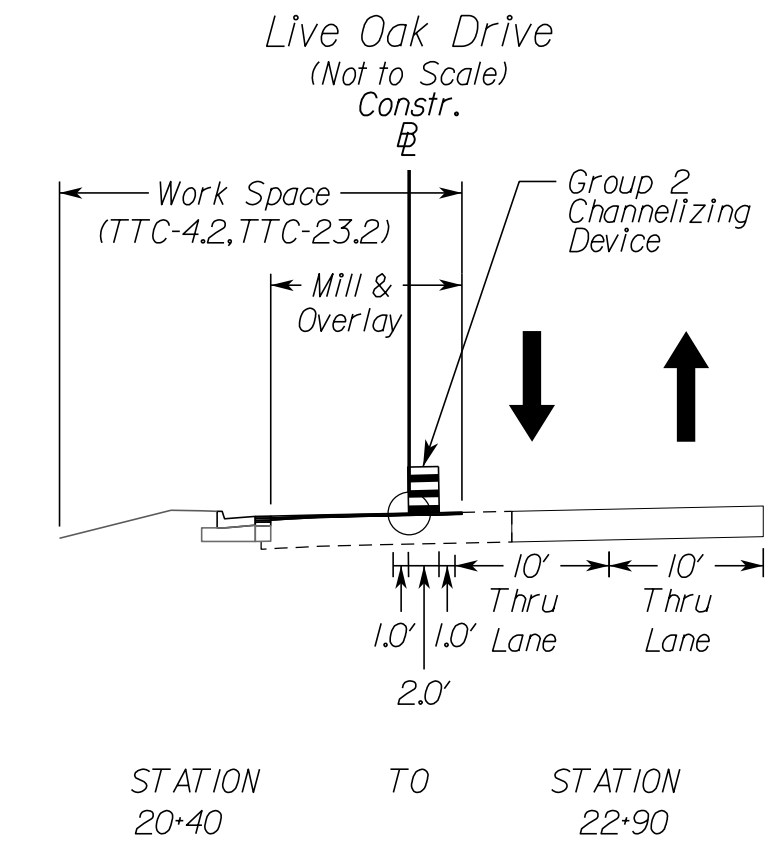
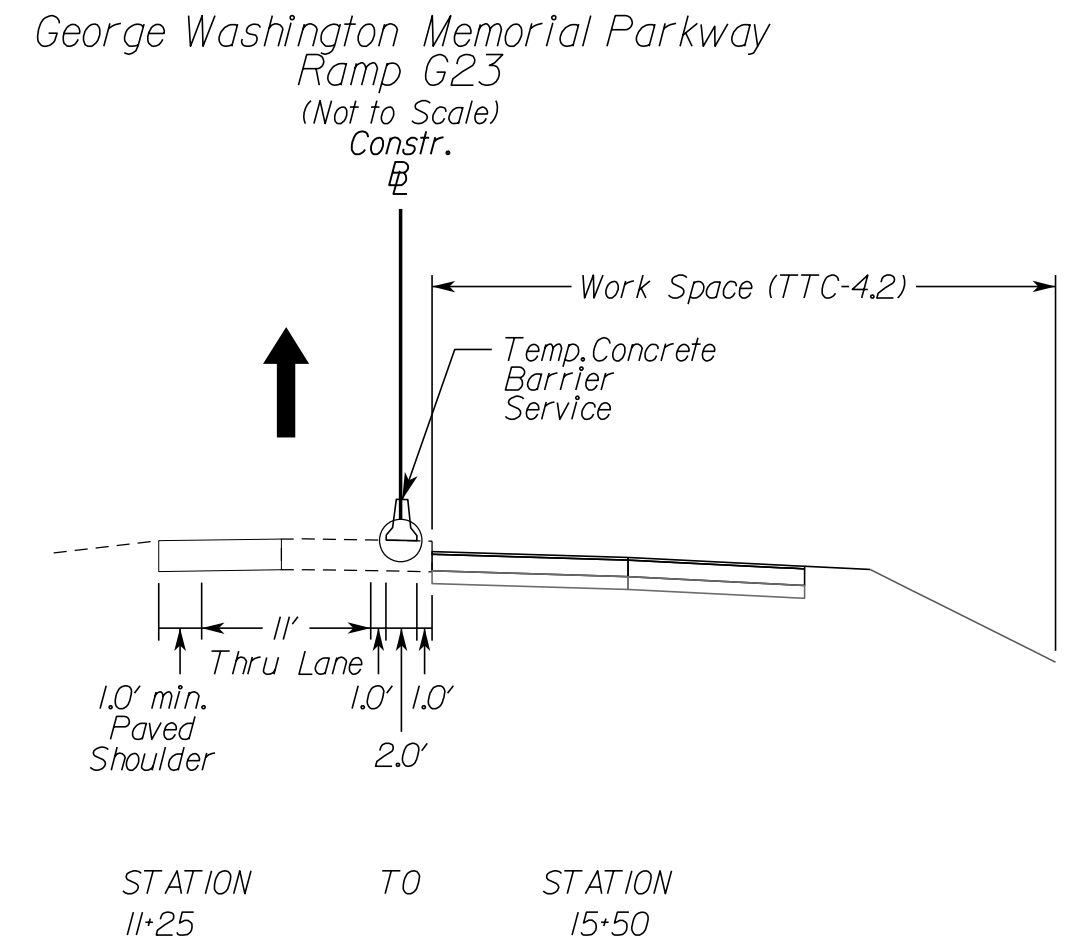
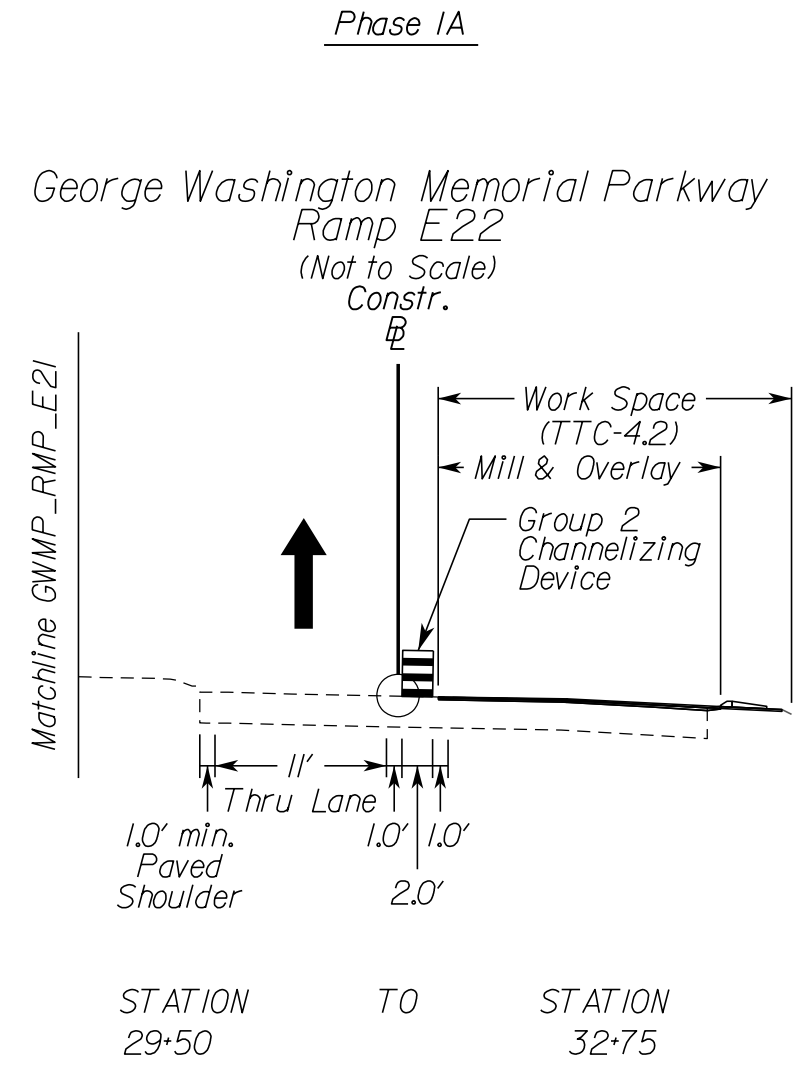
COMMONWEALTH OF VIRGINIA
 JOHN A. GIOMETTI
 Lic. No. 032300
 PROFESSIONAL ENGINEER

Rinker Design Assoc., P.C.
 Fredericksburg, Virginia
 (MOT ENGINEER)

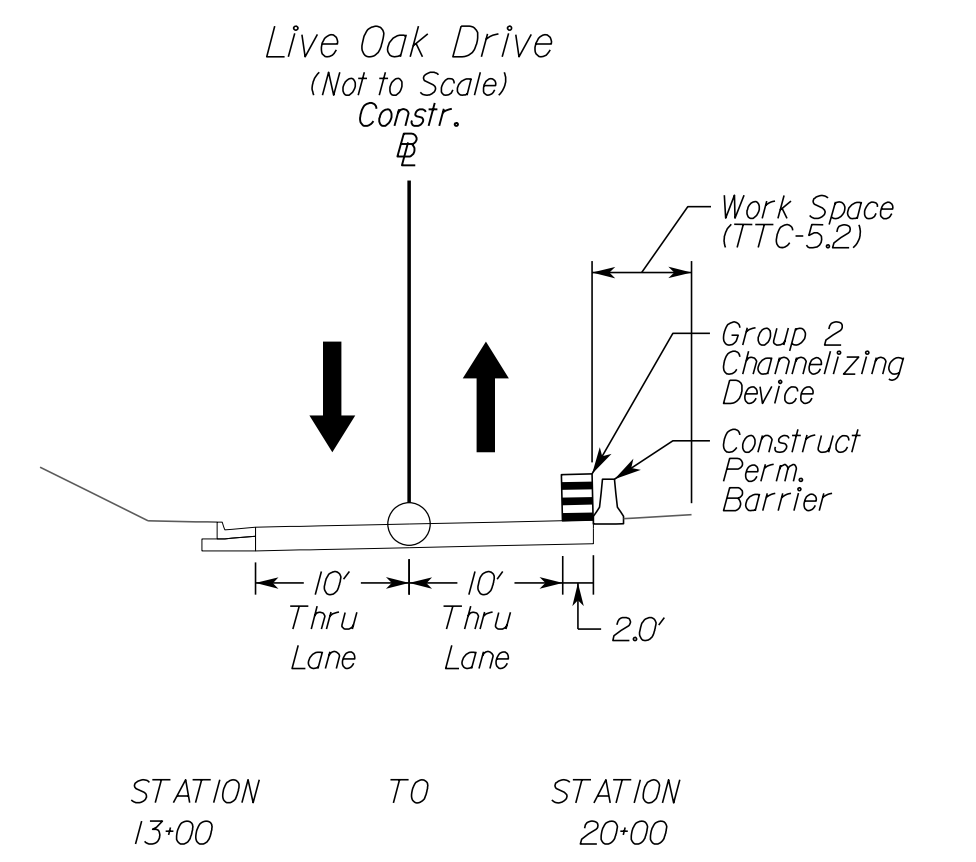
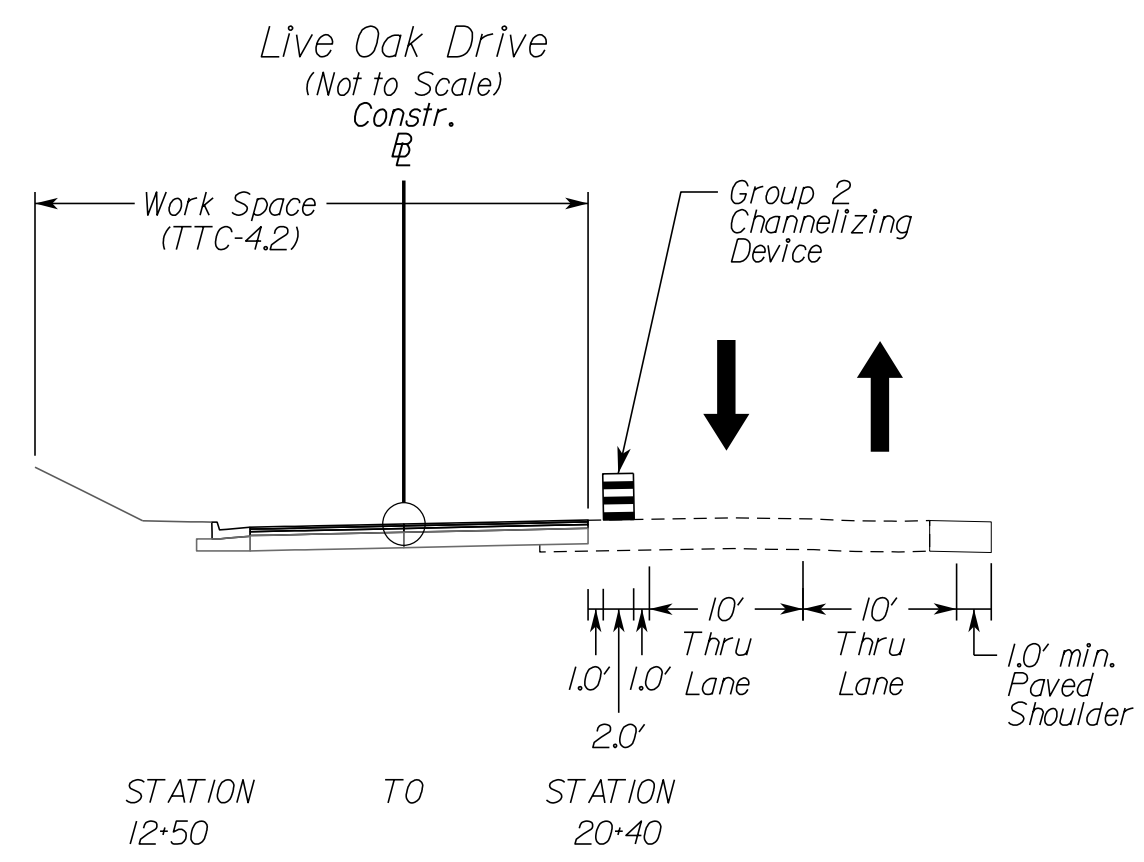
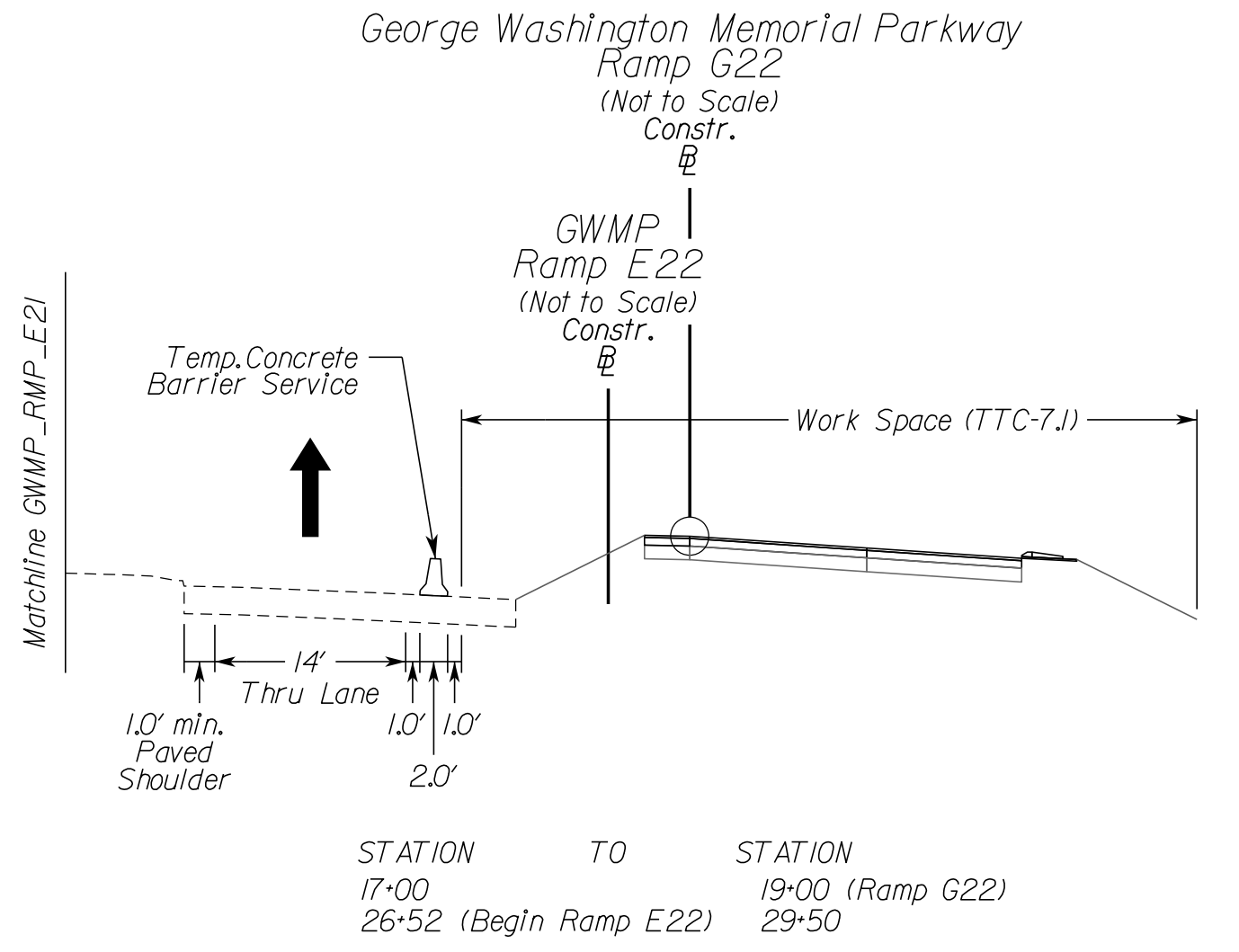
REVISED	STATE	ROUTE	STATE	VDOT PROJECT NO.	SHEET NO.
	VA.	495		0495-029-419 C501 RW201	1/11A/2 AREA 4

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

Temporary Traffic Control Typical Sections Phase IA & IA2 & IA3



- Temporary Pavement Inset Legend**
- (A) Asphalt Concrete Intermediate Course, Type IM-19.0D - 2 Inch Depth
 - (B) Asphalt Concrete Base Course, Type BM-25.0A - 4 Inch Depth
 - (C) Aggr. Base Mat'l, Type I, Size No. 21B - 6 Inch Depth



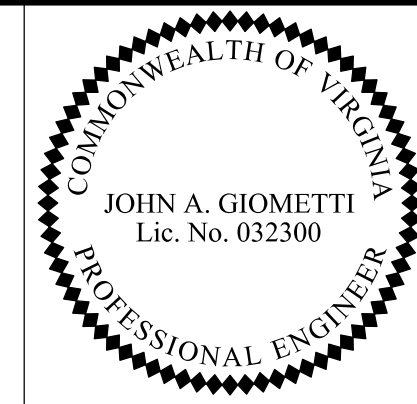
NOVA DISTRICT

10/26/2022

APPROVED FOR CONSTRUCTION

VDOT PROJECT NO. 0495-029-419	SHEET NO. 1/11A/2 AREA 4
----------------------------------	--------------------------------

PROJECT MANAGER_VDOT - Rupal Shah, PE, (703) 259-2362
 SURVEYED BY, DATE_RDA - Nicholas Kaugaulis, LS, (703) 334-0837, 1/2019
 DESIGN BY_RDA - Darrell Fischer, PE, (703) 334-0823
 SUBSURFACE UTILITY BY, DATE_Accurark - Mitchell Taylor, LS, (703) 635-3060, 12/2021



REVISED	STATE	ROUTE	STATE	VDOT PROJECT NO.	SHEET NO.
	VA	495		0495-029-419 C501 RW201	IJIBII AREA 4

Temporary Traffic Control Narrative and Typical Sections Phase IB

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 Fredericksburg, Virginia
 (MOT ENGINEER)

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

Sequence of Construction

Phase IB

Purpose: Install temporary traffic control devices including work zone signs, temporary pavement markings and raised markers, concrete barrier service and channelizing devices. These protective measures will allow construction of:
 - I-495 Northbound and Southbound mill & overlay and outside widening
 - George Washington Memorial Parkway Ramp G21
 - George Washington Memorial Parkway Ramp G22 gore area
 - George Washington Memorial Parkway Ramp G23
 - George Washington Memorial Parkway mill & overlay and widening
 - Balls Hill Road and Live Oak Drive Intersection
 - Balls Hill Trail

Advanced signing and any other required traffic control devices associated with each section of the Project are to be installed prior to beginning construction in that section. All conflicting traffic control devices are to be removed or modified, as necessary. Group 2 Channelizing devices may be used to close adjacent lane/shoulder (TTC-4.2/16.2), as necessary, to establish the work space prior to setting barrier and beginning construction activities.

All mill & overlay (M&O) locations shown in the plans, where located under traffic or barrier, shall be constructed utilizing off-peak lane/shoulder closures, as allowed per note 3 on sheet IJ.

In areas where M&O occurs adjacent to outside pavement widening, the construction sequencing shall be completed in a manner that maintains positive drainage across the roadway section, to avoid ponding.

Contractor shall implement Virginia Work Area Protection Manual, 2011 Edition, Revision 2J, typical applications for this package may include, but not limited to: TTC-1J, 4.2, 5.2, 6.2, 7.1, 17.2, 18.2, 23.2, 28.2, 37.2, 38.2, 39.2, 40.2, 53.0, 55J, 60.0, 63.2 or other typical applications, as necessary.

Install temporary pavement markings, raised markers, signage and other temporary traffic control devices, as required per WAPM, including barrier flare rates and warning lights to protect work areas as shown on the plans.

Install temporary traffic barrier service, Group II Channelizing Devices and Impact attenuators TL-3, Type I, throughout the project as shown on the plans. Contractor has the ability to remove these items once no longer required to protect work area.

All construction entrances shown may not be open/active throughout this entire phase of construction. The Contractor has the ability to open and close construction access points, as necessary, as construction progresses. The construction entrances shown are suggested locations, and may be moved as field conditions dictate.

Temporary custom overhead guide signs and modifications and skid/post design will be detailed as part of shop drawings for review by engineer and the Department prior to fabrication. The construction in the immediate area of these sign locations and the associated protection will need sequenced to move to an appropriate completed area, to then allow completion of the original location.

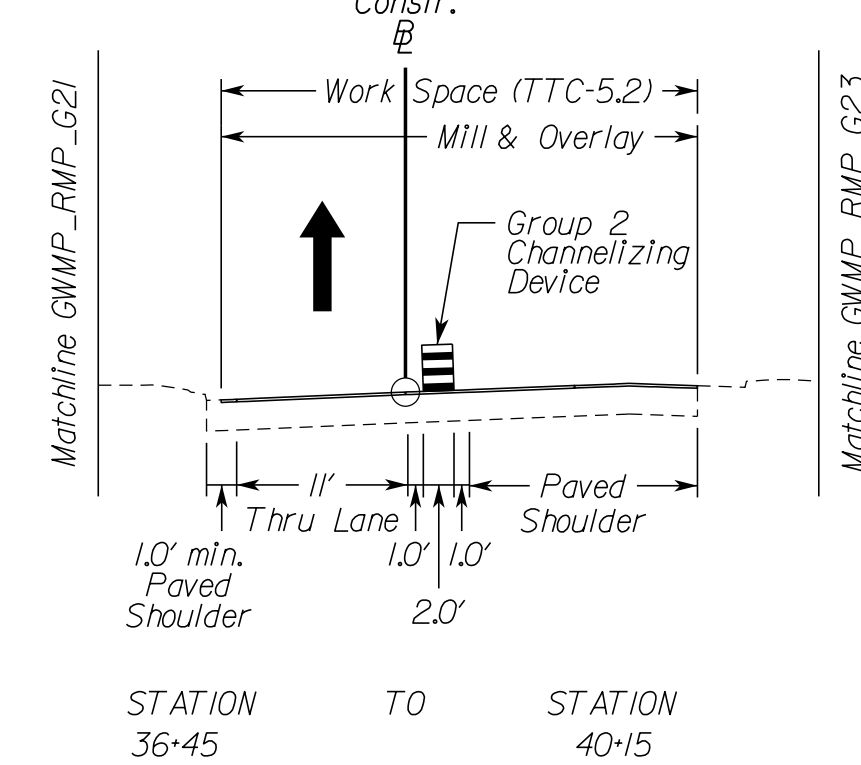
Refer to separate utility plans, under separate cover, for utility relocations associated with the project.

Refer to ITS plans, under separate cover, for PCMS locations and CCTV adjustments.

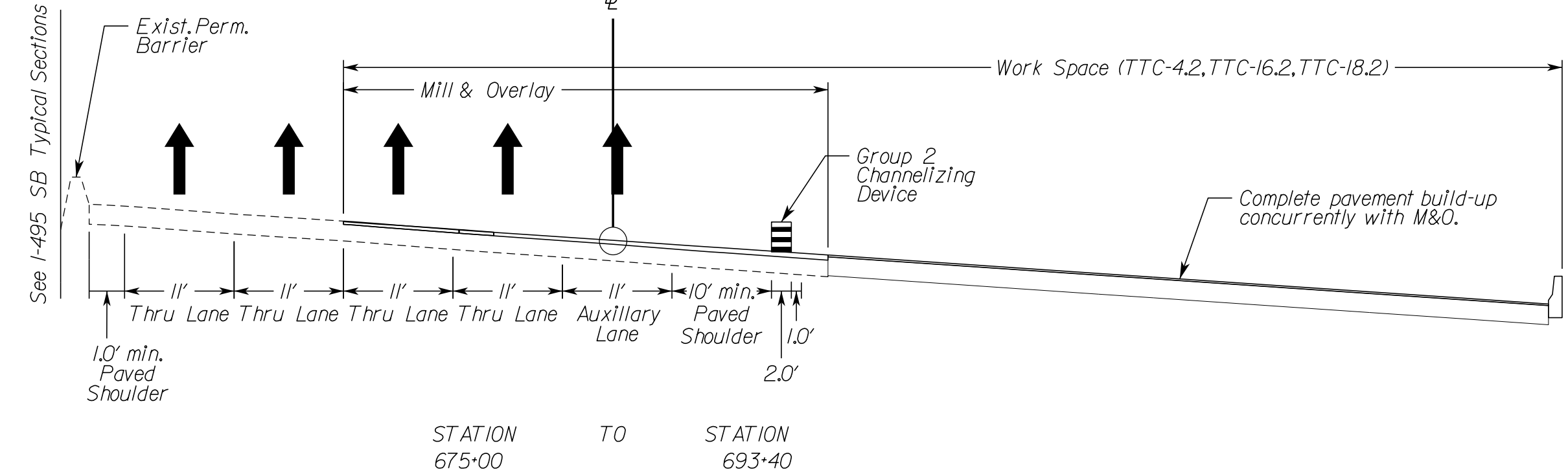
Retaining Wall / Sound Wall Summary Table (Phase IB Construction)

Name	Baseline/Station Range
RW 17B	GWMP Ramp G21 Baseline Sta. 25+64.89 to Sta. 33+33.45
RW 10	GWMP Ramp G21 Baseline Sta. 33+33.45 to Sta. 47+32.72
RW 38	GWMP Ramp G21 Baseline Sta. 48+22.61 to Sta. 52+66.71
Noise Barrier 10	495SB Baseline Sta. 277+13.64 to Sta. 296+43.60
Noise Barrier C	495SB Baseline Sta. 296+43.60 to Sta. 307+03.54

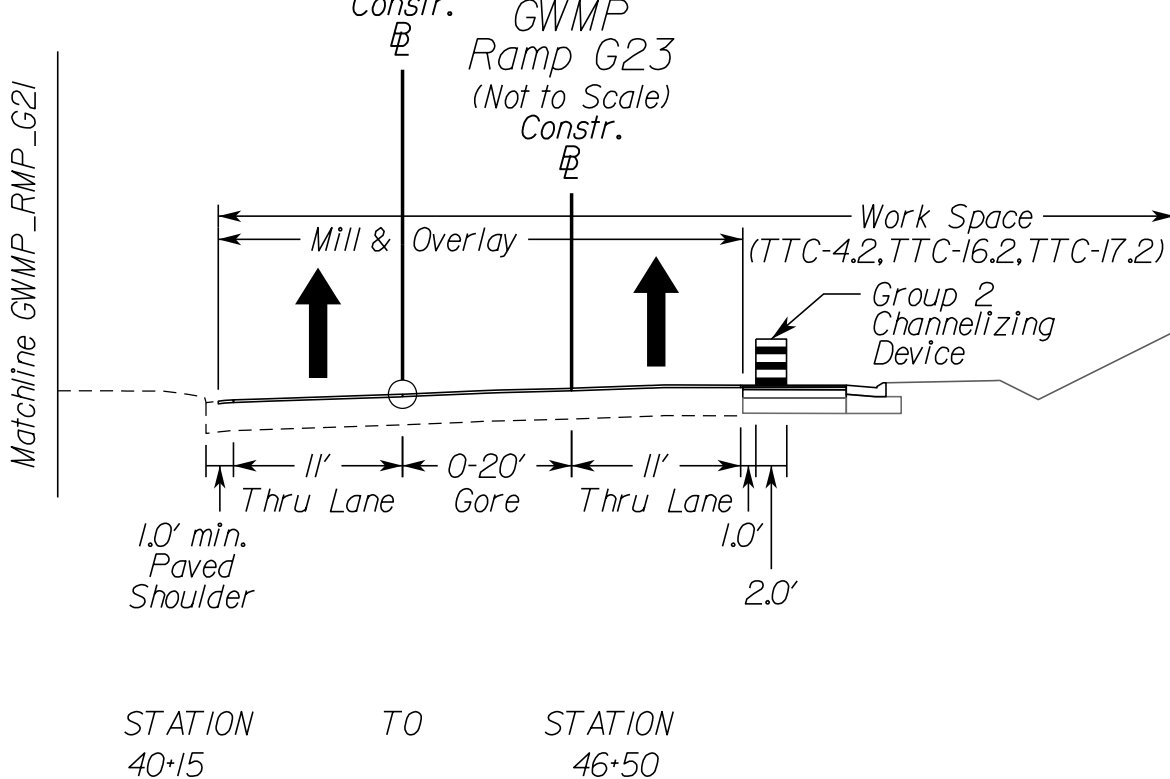
George Washington Memorial Parkway Ramp E22 (Not to Scale) Constr.



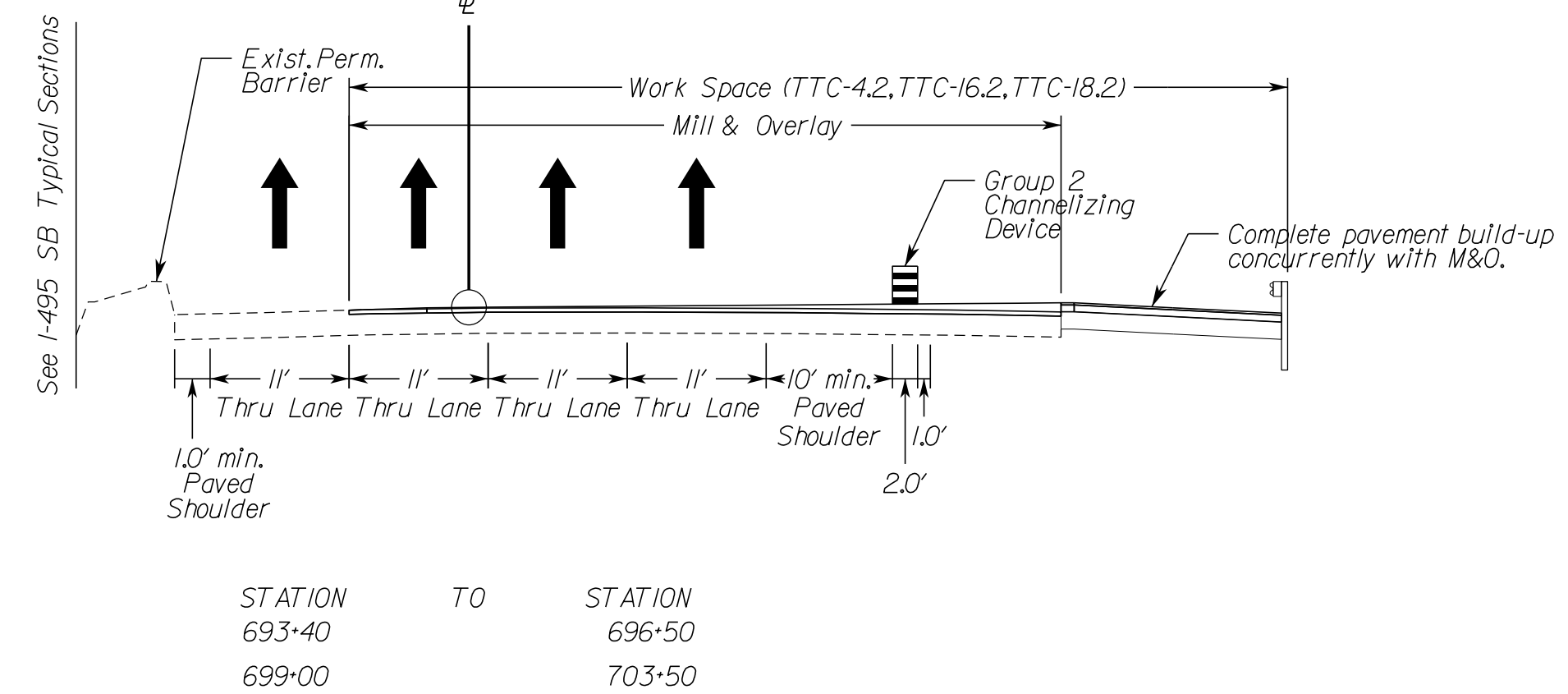
I-495 Northbound (Not to Scale) Constr.



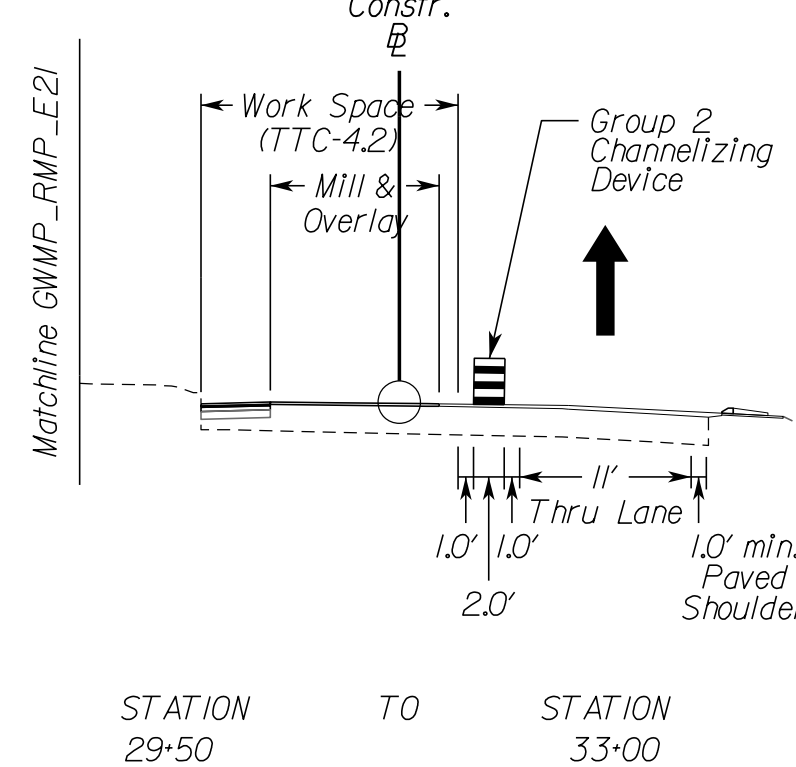
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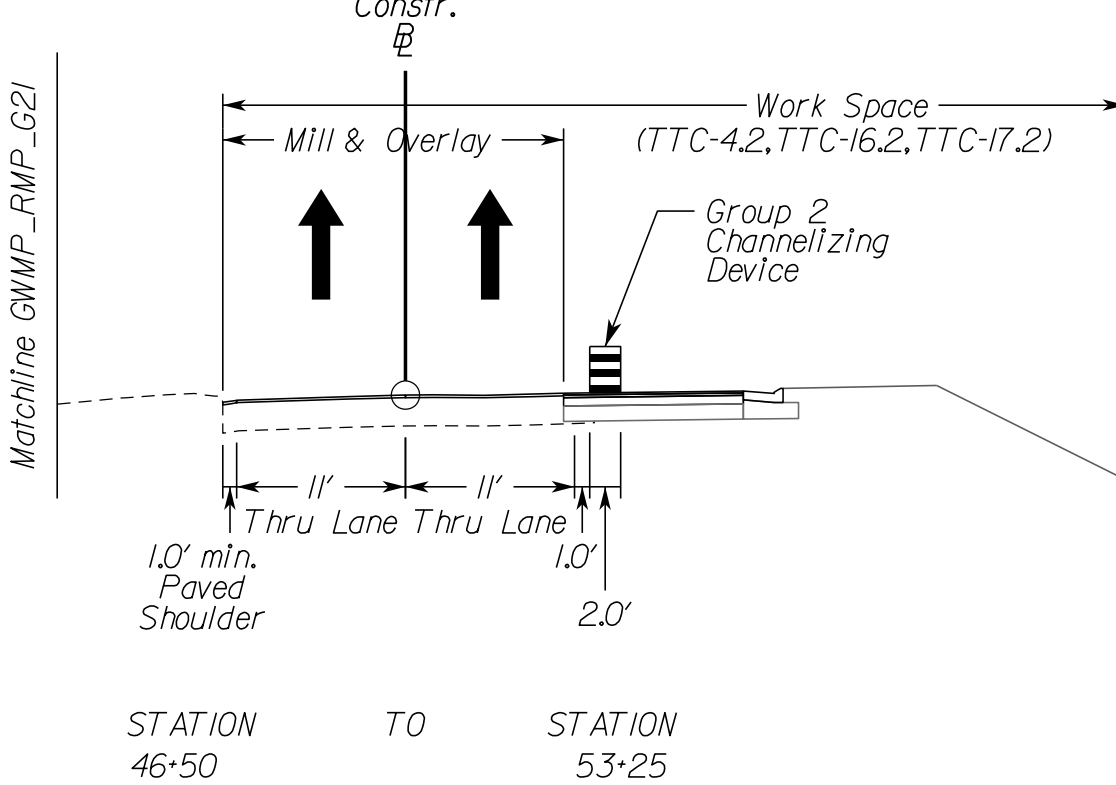
I-495 Northbound (Not to Scale) Constr.



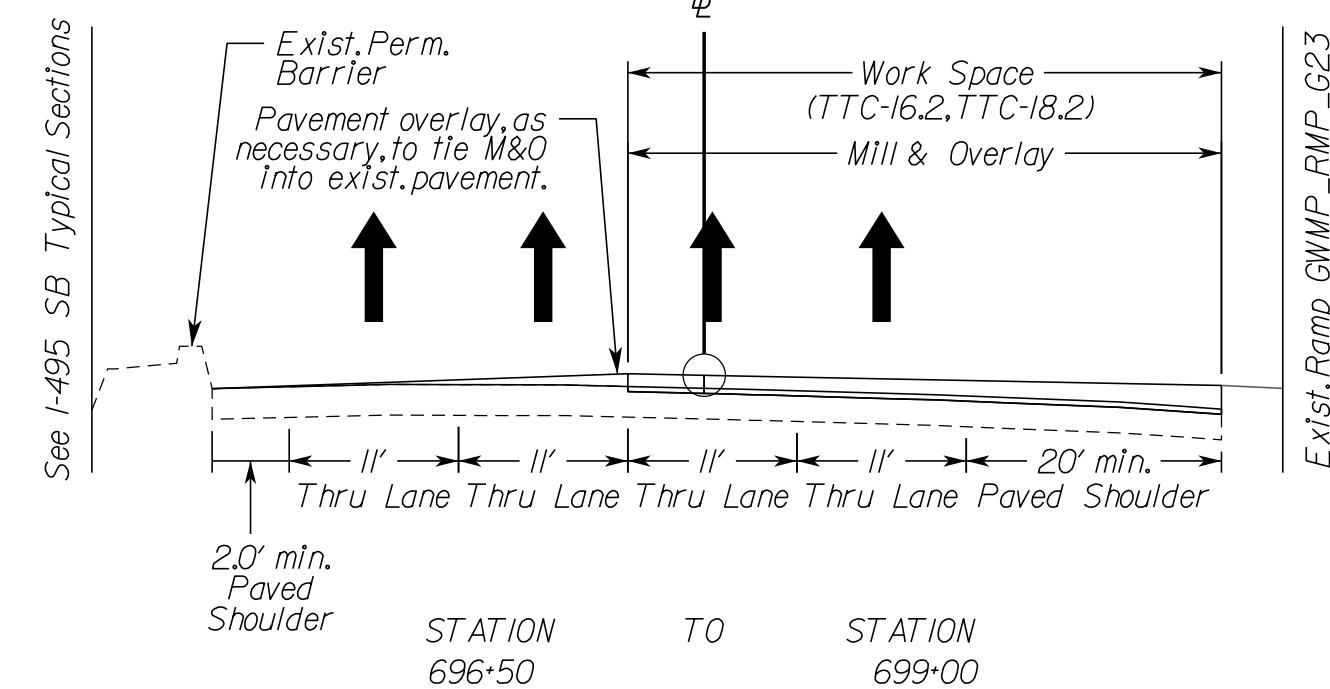
George Washington Memorial Parkway Ramp E22 (Not to Scale) Constr.



George Washington Memorial Parkway Ramp E22 (Not to Scale) Constr.



I-495 Northbound (Not to Scale) Constr.



NOVA DISTRICT

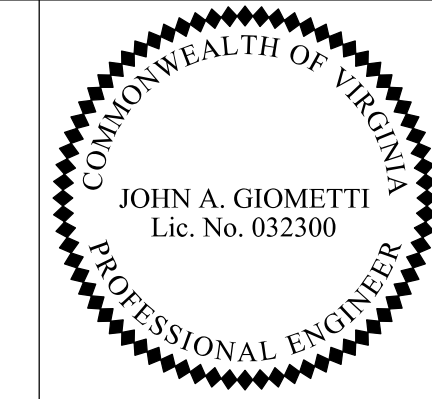
10/26/2022

APPROVED FOR CONSTRUCTION

VDOT PROJECT NO. 0495-029-419	SHEET NO. IJIBII AREA 4
----------------------------------	-------------------------------

PROJECT MANAGER VDOT - Rupal Shah, PE, (703) 259-2362
SURVEYED BY, DATE RDA - Nicholas Kougaull's, LS, (703) 334-0837, 1/2019
DESIGN BY RDA - Darrell Fischer, PE, (703) 334-0823
SUBSURFACE UTILITY BY, DATE Accumark - Michael Taylor, LS, (703) 635-3060, 12/2021

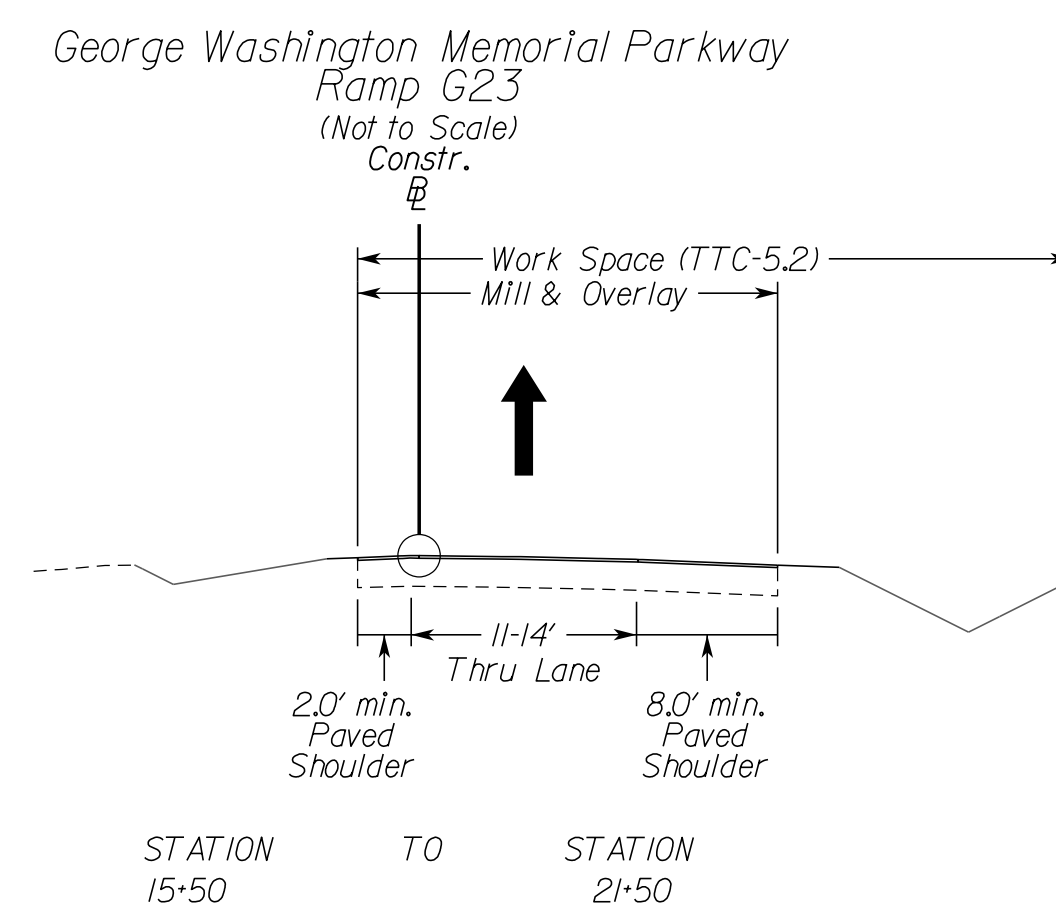
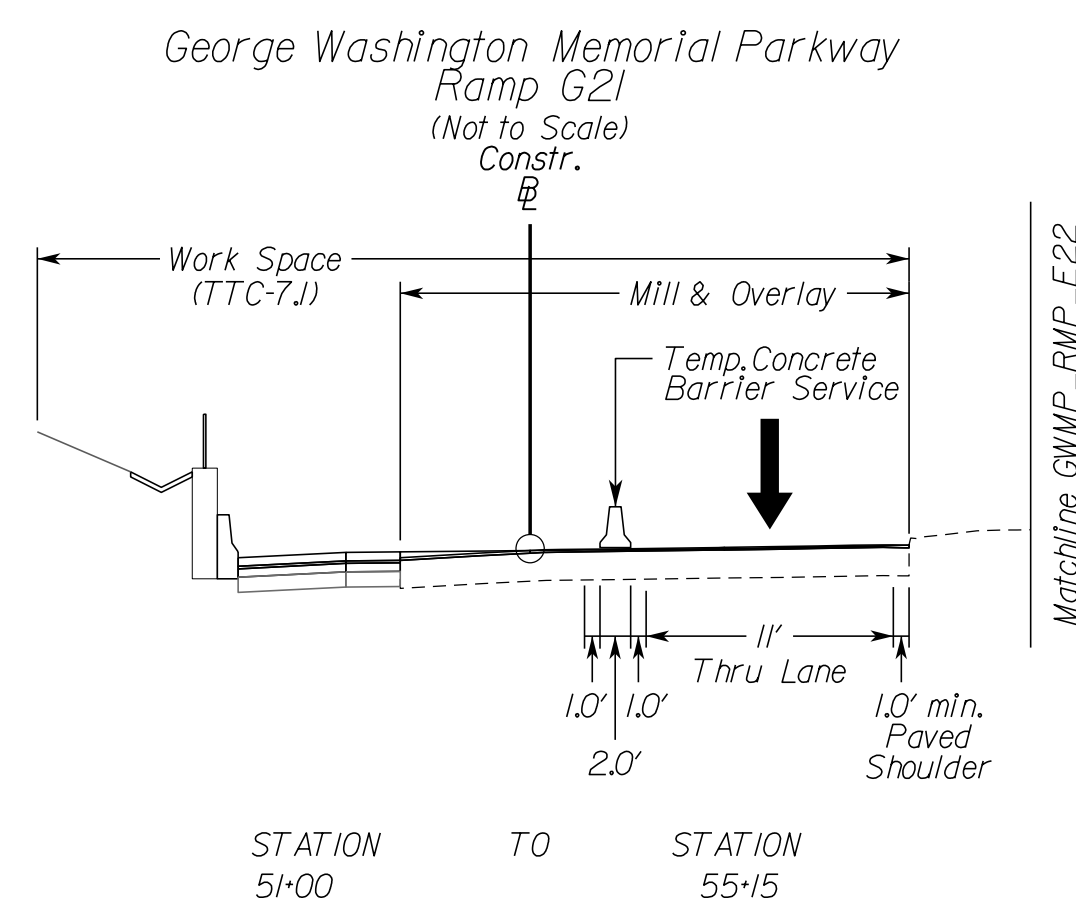
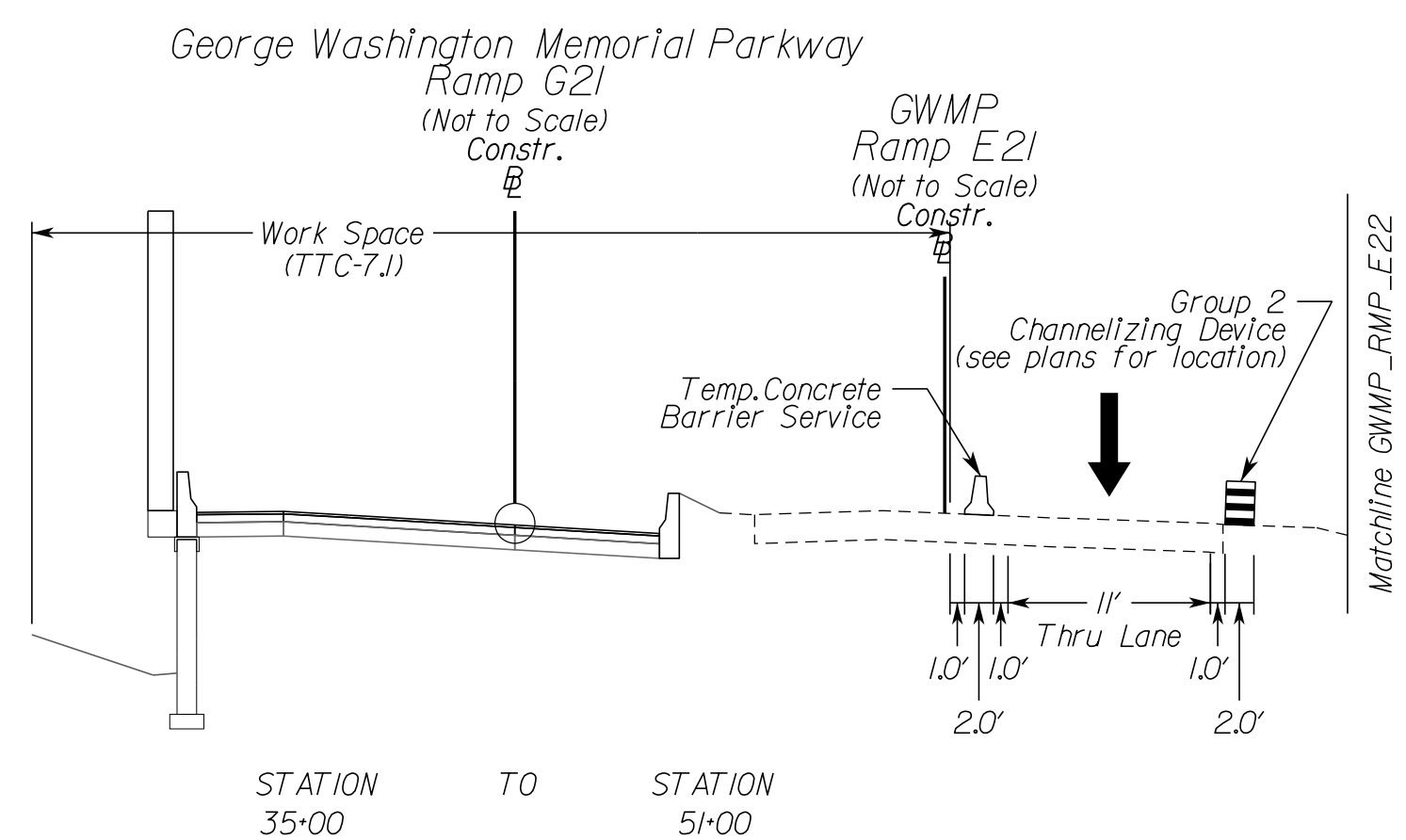
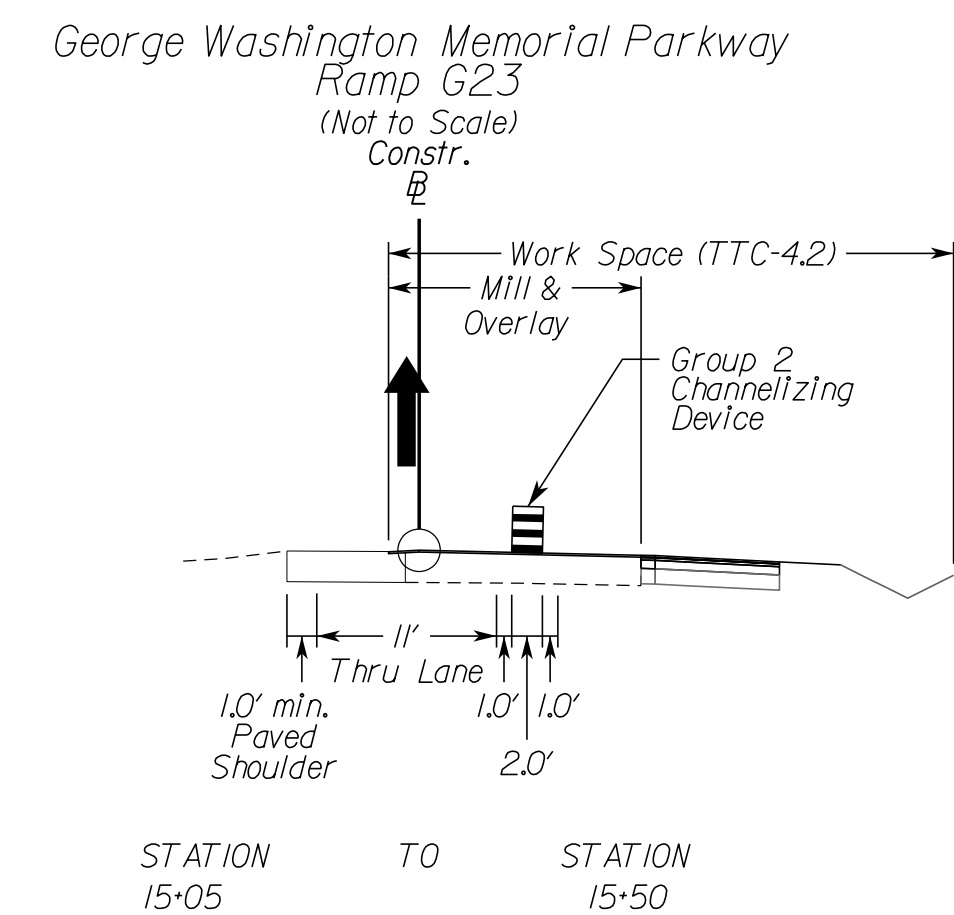
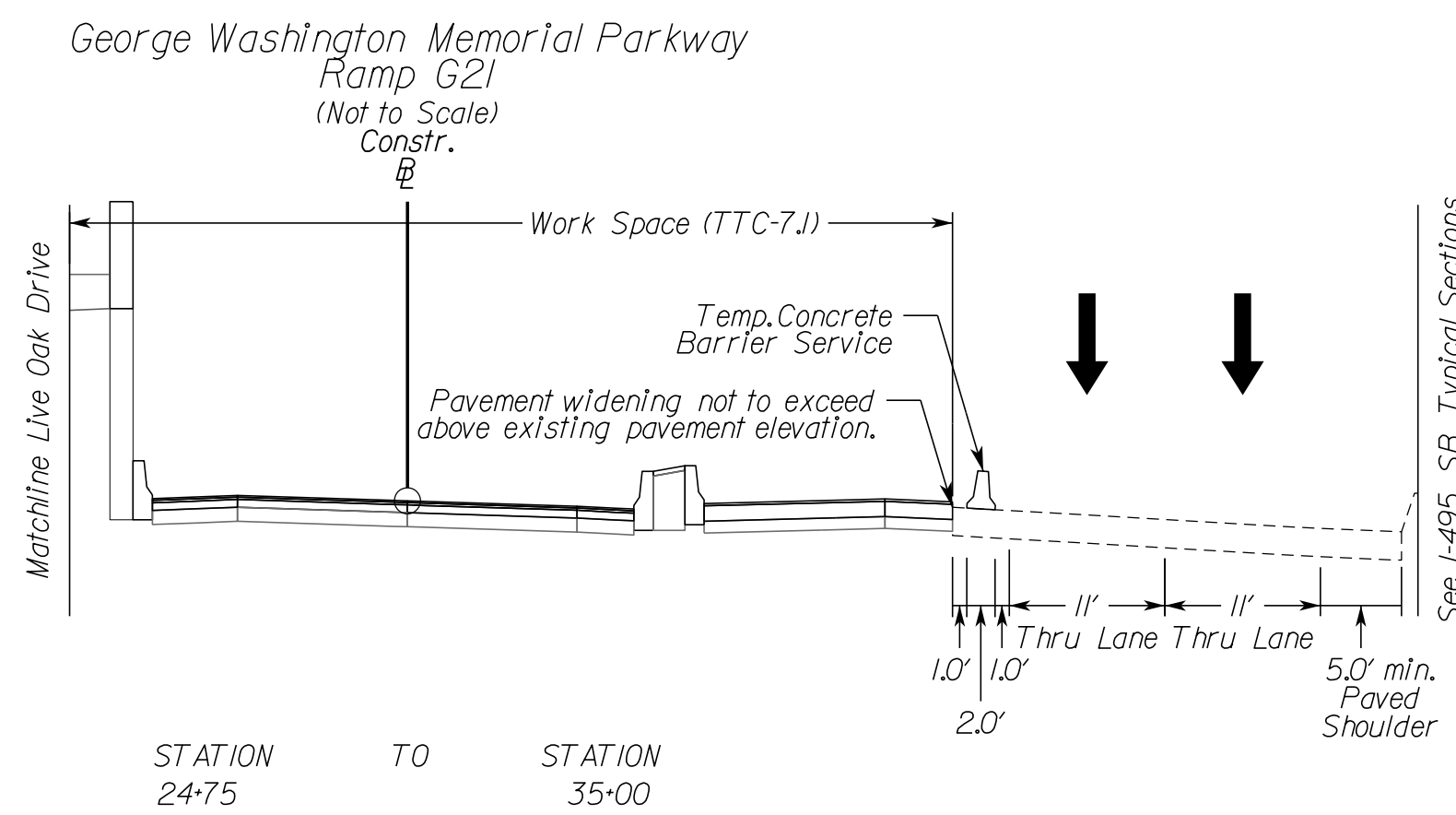
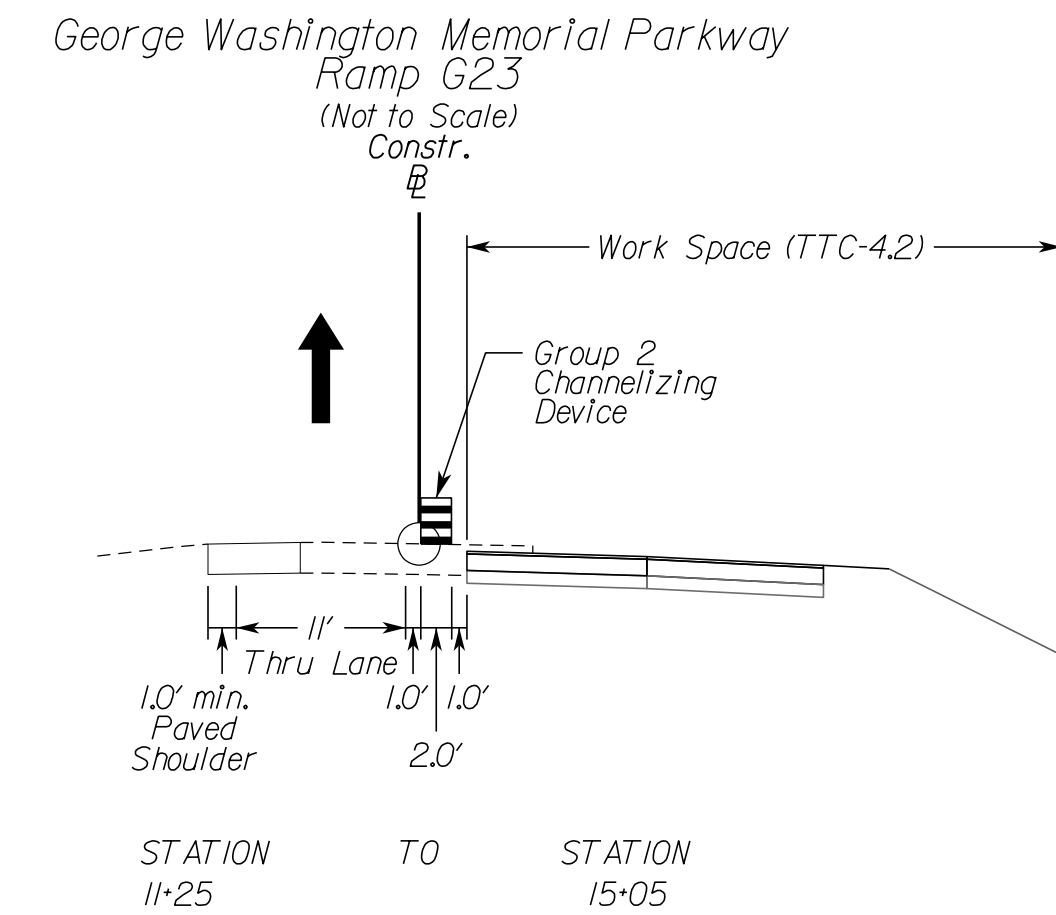
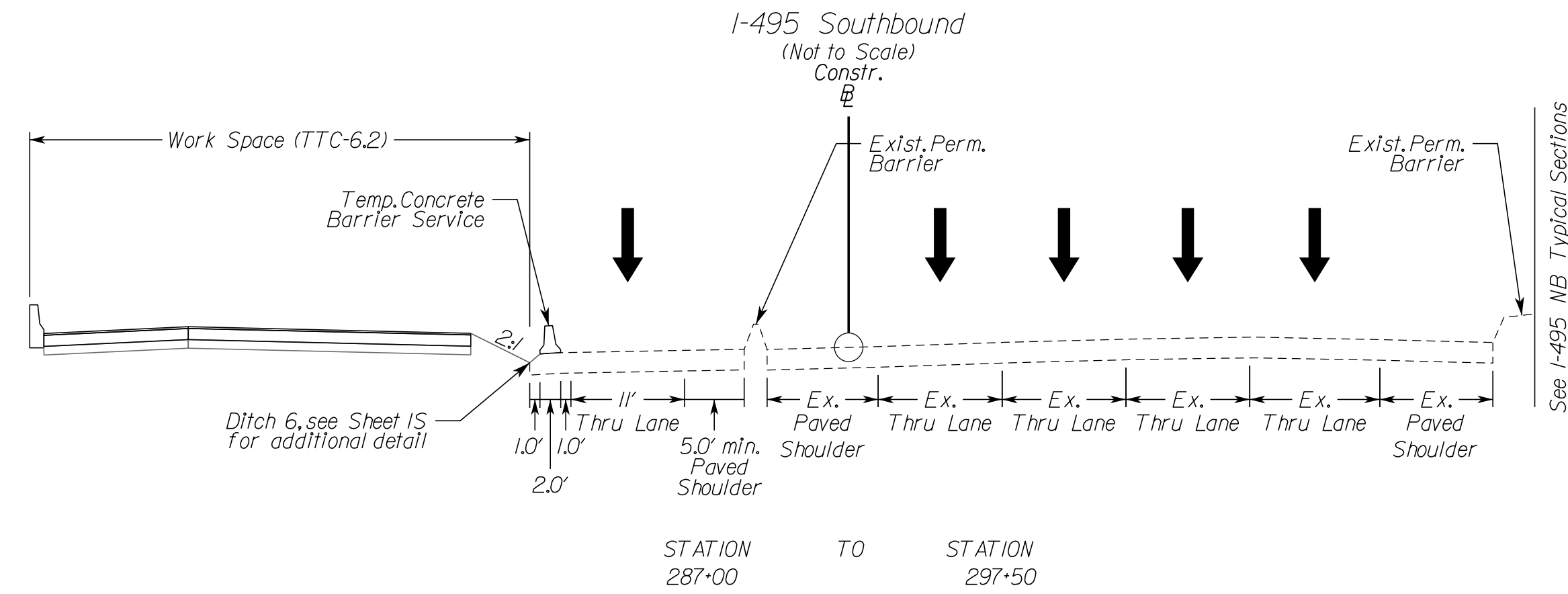
Temporary Traffic Control Typical Sections Phase 1B



Rinker Design Assoc., P.C.
Fredericksburg, Virginia
(MOT ENGINEER)

REVISED	STATE	ROUTE	STATE	VDOT PROJECT NO.	SHEET NO.
	VA.	495		0495-029-419 C501 RW201	1/11B)2 AREA 4

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



NOVA DISTRICT

10/26/2022

VDOT PROJECT NO. 0495-029-419	SHEET NO. 1/11B)2 AREA 4
----------------------------------	--------------------------------

APPROVED FOR CONSTRUCTION

PROJECT MANAGER_VDOT - Rtrapa1.Shab.PE.(703)259-2362
 SURVEYED BY, DATE_RDA - Nicholas.Kaugall.LS.(703)334-0837,1/2019
 DESIGN BY_RDA - Darrell.Fischer.PE.(703)334-0823
 SUBSURFACE UTILITY BY, DATE_Accurmark - Mitchell.Taylor.LS.(703)635-3060,12/2021

JOHN A. GIOMETTI
 Lic. No. 032300

Rinker Design Assoc., P.C.
 Fredericksburg, Virginia
 (MOT ENGINEER)

REVISED	STATE	ROUTE	STATE	VDOT PROJECT NO.	SHEET NO.
	VA.	495		0495-029-419 C501 RW201	IJ(IIC) AREA 4

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

Temporary Traffic Control Narrative and Typical Sections Phase IC

Sequence of Construction

Phase IC

Purpose: Install temporary traffic control devices including work zone signs, temporary pavement markings and raised markers, concrete barrier service and channelizing devices. These protective measures will allow construction of - George Washington Memorial Parkway Ramp G23 gore area

Advanced signing and any other required traffic control devices associated with each section of the Project are to be installed prior to beginning construction in that section. All conflicting traffic control devices are to be removed or modified, as necessary. Group 2 Channelizing devices may be used to close adjacent lane/shoulder (TTC-4.2/16.2), as necessary, to establish the work space prior to setting barrier and beginning construction activities.

All mill & overlay (M&O) locations shown in the plans, where located under traffic or barrier, shall be constructed utilizing off-peak lane/shoulder closures, as allowed per note 3 on sheet IJ.

In areas where M&O occurs adjacent to outside pavement widening, the construction sequencing shall be completed in a manner that maintains positive drainage across the roadway section, to avoid ponding.

Contractor shall implement Virginia Work Area Protection Manual, 2011 Edition, Revision 2J, typical applications for this package may include, but not limited to: TTC-IJ, 4.2, 5.2, 6.2, 7.1, 16.2, 17.2, 18.2, 23.2, 28.2, 37.2, 38.2, 39.2, 40.2, 53.0, 55.1, 60.0, 63.2 or other typical applications, as necessary.

Install temporary pavement markings, raised markers, signage and other temporary traffic control devices, as required per VWAPM, including barrier flare rates and warning lights to protect work areas as shown on the plans.

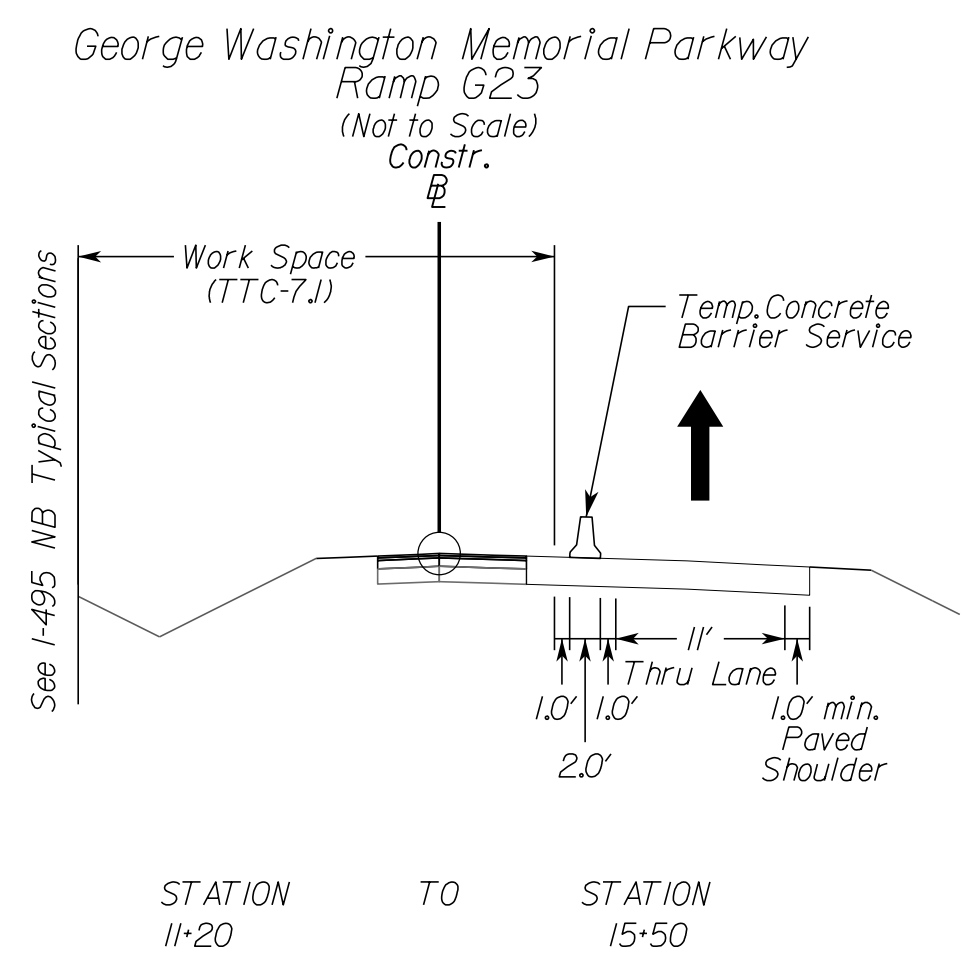
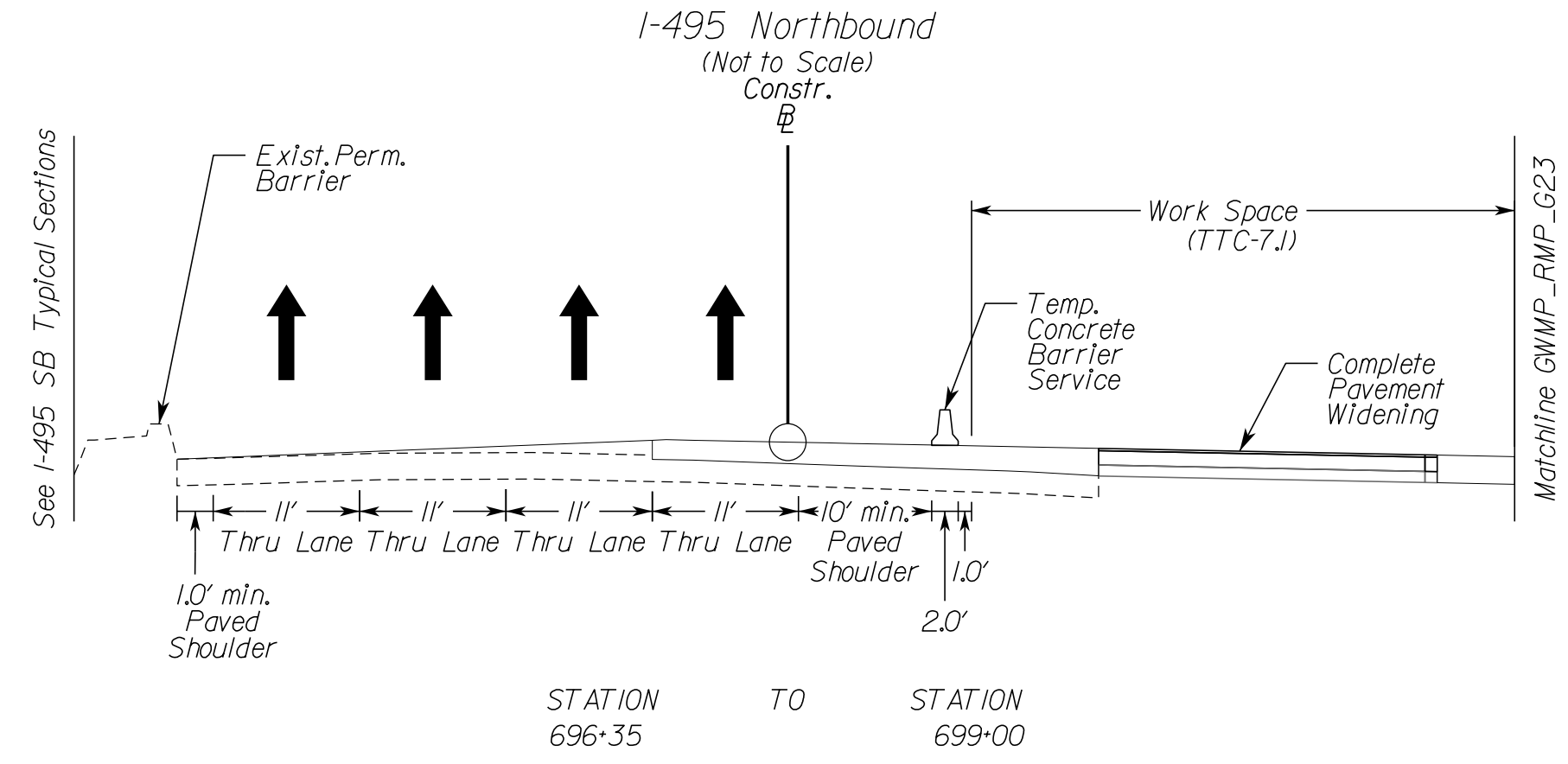
Install temporary traffic barrier service, Group II Channelizing Devices and impact attenuators TL-3 Type I, throughout the project as shown on the plans. Contractor has the ability to remove these items once no longer required to protect work area.

All construction entrances shown may not be open/active throughout this entire phase of construction. The Contractor has the ability to open and close construction access points, as necessary, as construction progresses. The construction entrances shown are suggested locations, and may be moved as field conditions dictate.

Temporary custom overhead guide signs and modifications and skid/post design will be detailed as part of shop drawings for review by engineer and the Department prior to fabrication. The construction in the immediate area of these sign locations and the associated protection will need sequenced to move to an appropriate completed area, to then allow completion of the original location.

Refer to separate utility plans, under separate cover, for utility relocations associated with the project.

Refer to ITS plans, under separate cover, for PCMS locations and CCTV adjustments.



NOVA DISTRICT

10/26/2022

VDOT PROJECT NO. 0495-029-419	SHEET NO. IJ(IIC) AREA 4
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APPROVED FOR CONSTRUCTION

PROJECT MANAGER_VDOT - R. Stah, PE, (703) 259-2362
SURVEYED BY, DATE_RDA - Nicholas Kaugaulis, LS, (703) 334-0837, 1/2019
DESIGN BY_RDA - Darrell Fischer, PE, (703) 334-0823
SUBSURFACE UTILITY BY, DATE_Accumark - Michael Taylor, LS, (703) 635-3060, 1/2/2021

COMMONWEALTH OF VIRGINIA
JOHN A. GIOMETTI
Lic. No. 032300
PROFESSIONAL ENGINEER
Rinker Design Assoc., P.C.
Fredericksburg, Virginia
(MOT ENGINEER)

REVISED	STATE	ROUTE	STATE	VDOT PROJECT NO.	SHEET NO.
	VA	495		0495-029-419 C501 RW201	1(JID)1 AREA 4

Temporary Traffic Control Narrative and Typical Sections Phase 1D

Sequence of Construction

Phase 1D

Purpose: Install temporary traffic control devices including work zone signs, temporary pavement markings and raised markers, concrete barrier service and channelizing devices. These protective measures will allow construction of:
- I-495 Southbound mill & overlay and outside widening
- George Washington Memorial Parkway Ramp G2
- George Washington Memorial Parkway Ramp E2
- George Washington Memorial Parkway Ramp E22

Advanced signing and any other required traffic control devices associated with each section of the Project are to be installed prior to beginning construction in that section. All conflicting traffic control devices are to be removed or modified, as necessary. Group 2 Channelizing devices may be used to close adjacent lane/shoulder (TTC-4,2,16,2), as necessary, to establish the work space prior to setting barrier and beginning construction activities.

All mill & overlay (M&O) locations shown in the plans, where located under traffic or barrier, shall be constructed utilizing off-peak lane/shoulder closures, as allowed per note 3 on sheet 1J.

In areas where M&O occurs adjacent to outside pavement widening, the construction sequencing shall be completed in a manner that maintains positive drainage across the roadway section, to avoid ponding.

Contractor shall implement Virginia Work Area Protection Manual, 2011 Edition, Revision 2, typical applications for this package may include, but not limited to: TTC-1, 4, 2, 5, 2, 6, 2, 7, 1, 7, 2, 8, 2, 2, 3, 2, 2, 8, 2, 3, 2, 3, 2, 3, 2, 4, 2, 5, 3, 0, 5, 1, 6, 0, 0, 6, 3, 2 or other typical applications, as necessary.

Install temporary pavement markings, raised markers, signage and other temporary traffic control devices, as required per VWAPM, including barrier flare rates and warning lights to protect work areas as shown on the plans.

Install temporary traffic barrier service, Group II Channelizing Devices and Impact attenuators TL-3, Type I, throughout the project as shown on the plans. Contractor has the ability to remove these items once no longer required to protect work area.

All construction entrances shown may not be open/active throughout this entire phase of construction. The Contractor has the ability to open and close construction access points, as necessary, as construction progresses. The construction entrances shown are suggested locations, and may be moved as field conditions dictate.

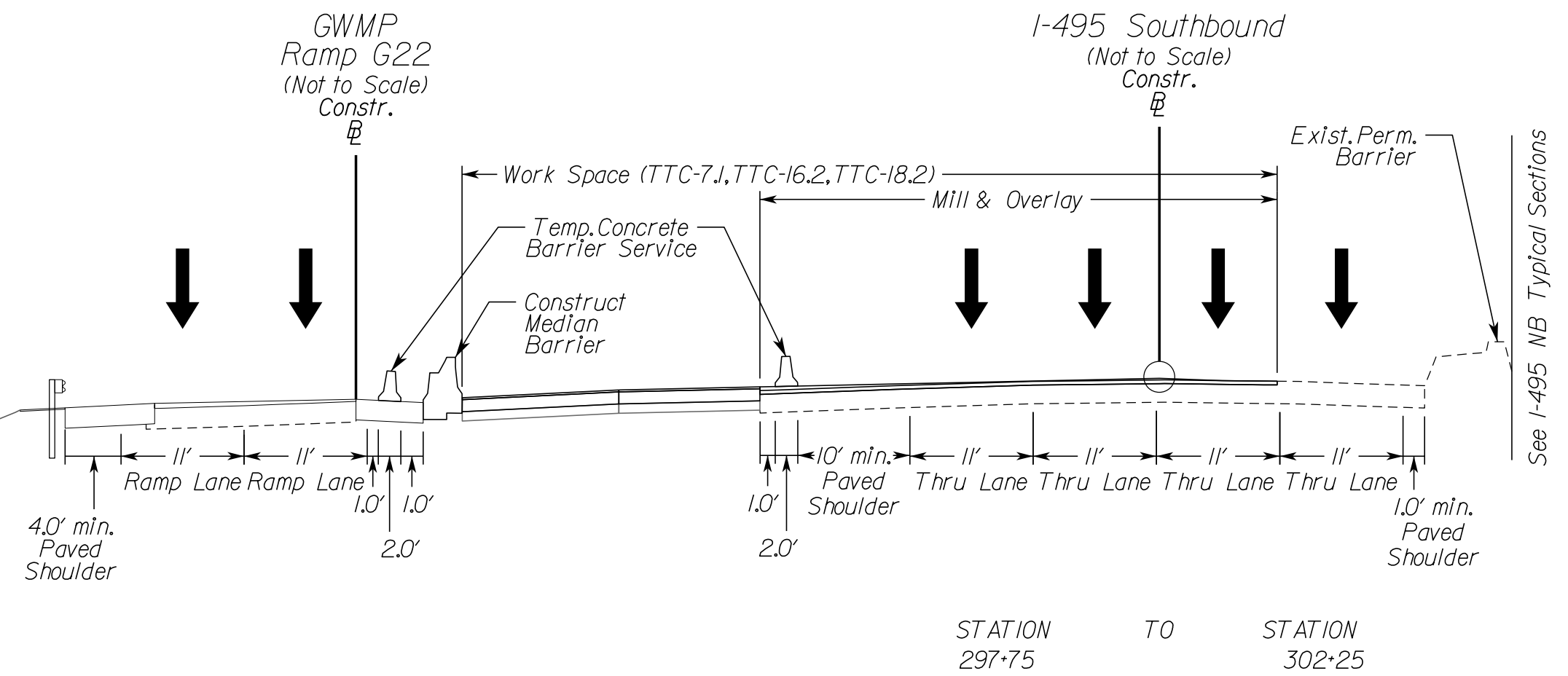
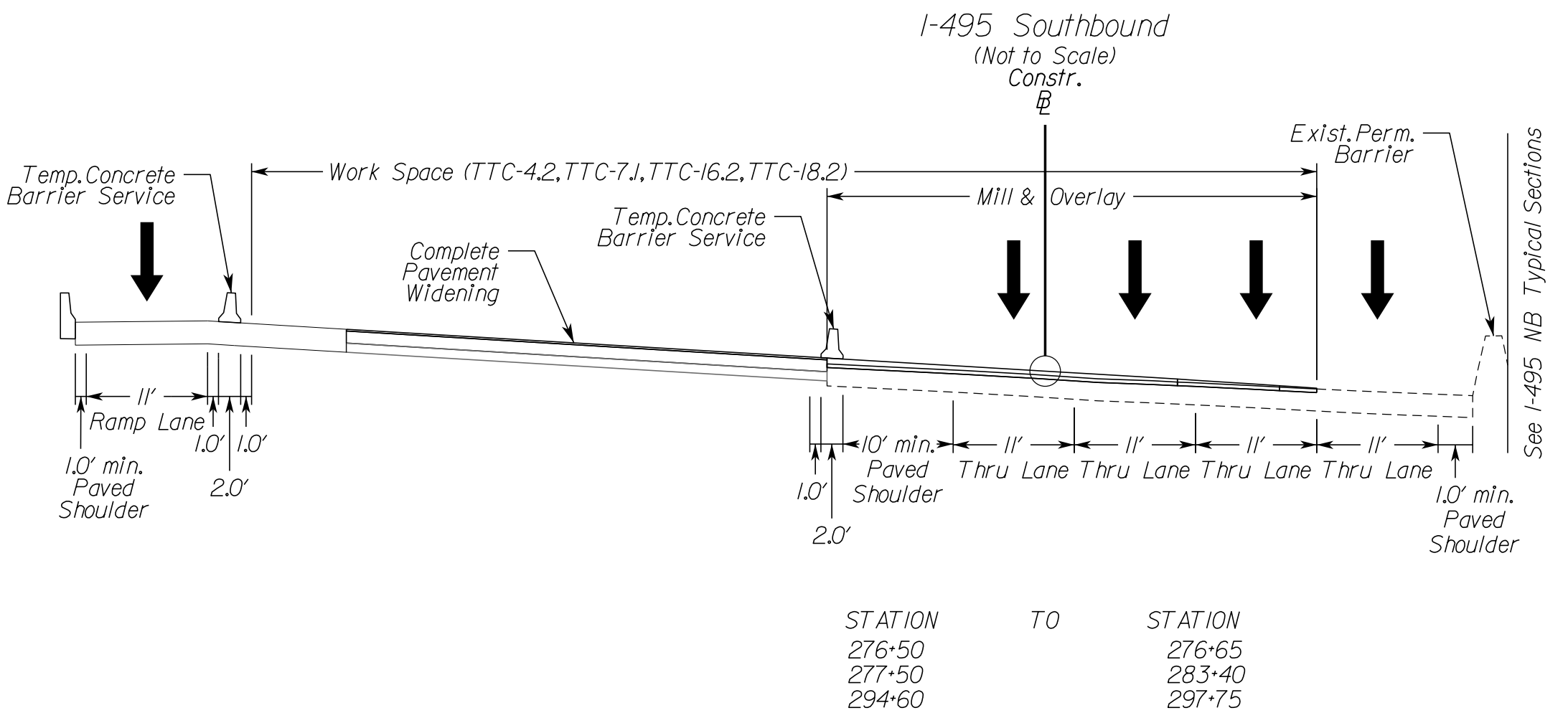
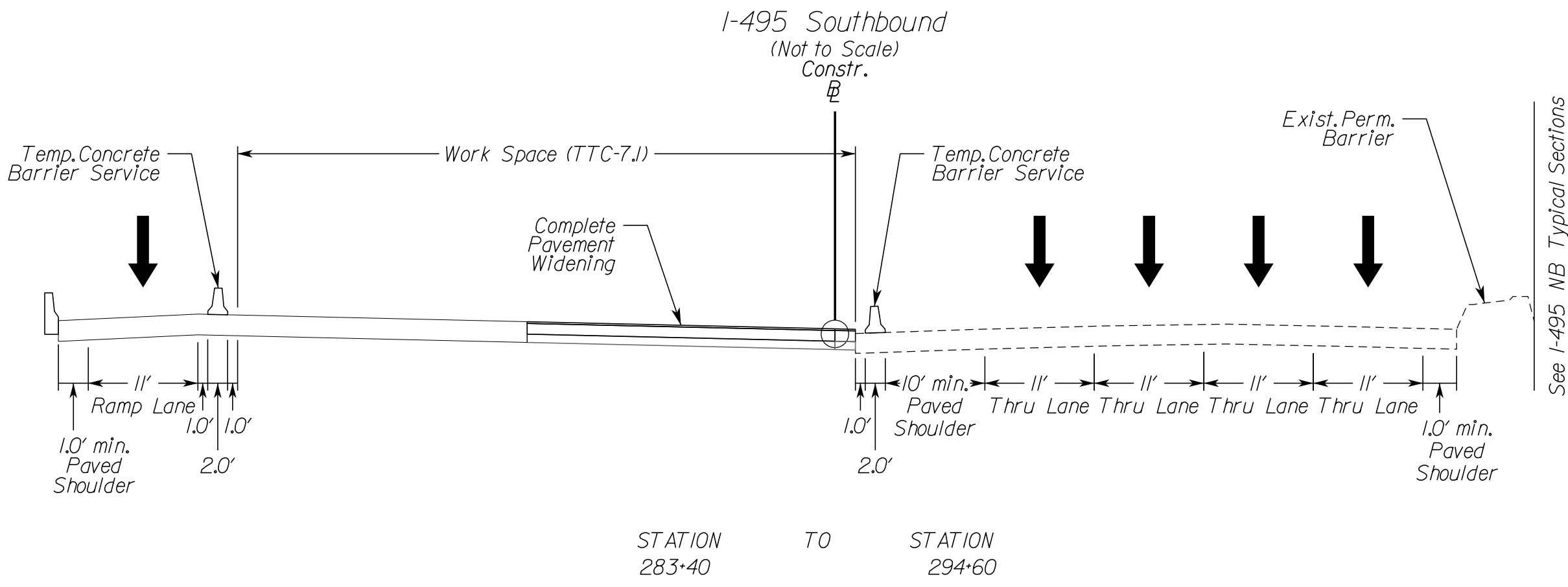
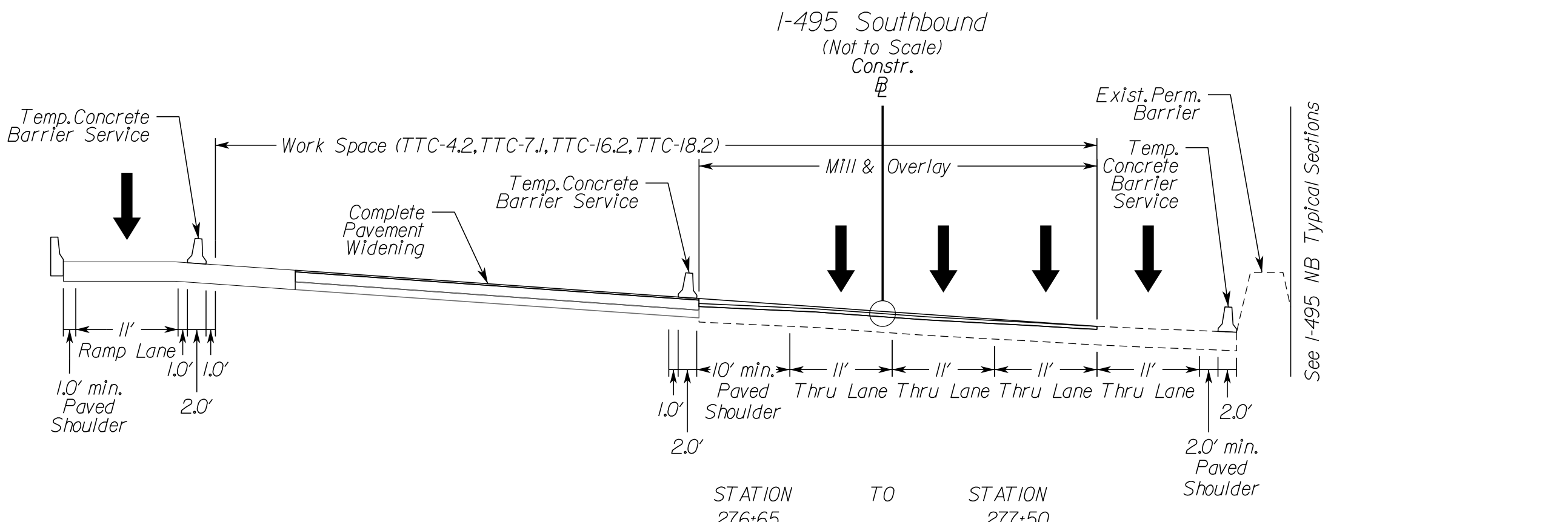
Temporary custom overhead guide signs and modifications and skid/post design will be detailed as part of shop drawings for review by engineer and the Department prior to fabrication. The construction in the immediate area of these sign locations and the associated protection will need sequenced to move to an appropriate completed area, to then allow completion of the original location.

Refer to separate utility plans, under separate cover, for utility relocations associated with the project.

Refer to ITS plans, under separate cover, for PCMS locations and CCTV adjustments.

Retaining Wall / Sound Wall Summary Table (Phase 1D Construction)

Name	Baseline/Station Range
RW 23	GWMP Ramp E21/E22 Baseline Sta. 21+93.45 to Sta. 28+00.00



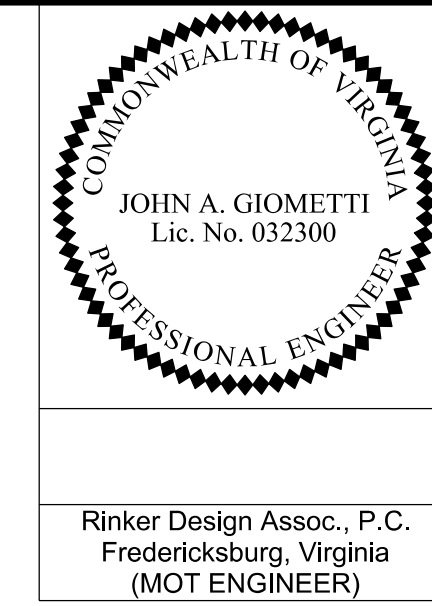
NOVA DISTRICT

10/26/2022

APPROVED FOR CONSTRUCTION

PROJECT MANAGER_VDOT - Rupal Shah, P.E. (703) 259-2362
SURVEYED BY, DATE_RDA - Nicholas Kougoullis, LS (703) 334-0837, 1/2019
DESIGN BY_RDA - Darrell Fischer, P.E. (703) 334-0823
SUBSURFACE UTILITY BY, DATE_Accurmark - Michael Taylor, LS (703) 635-3060, 12/2021

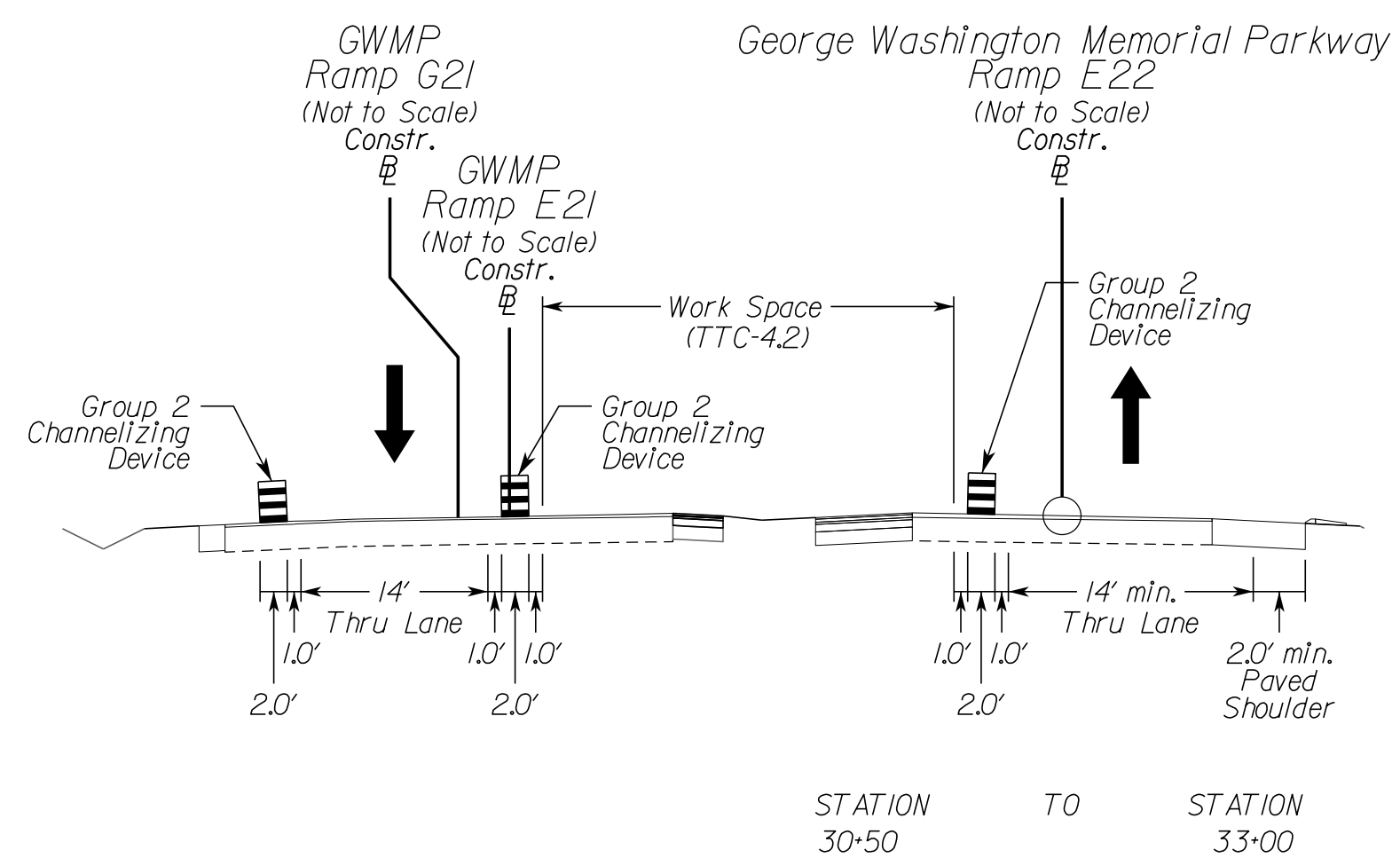
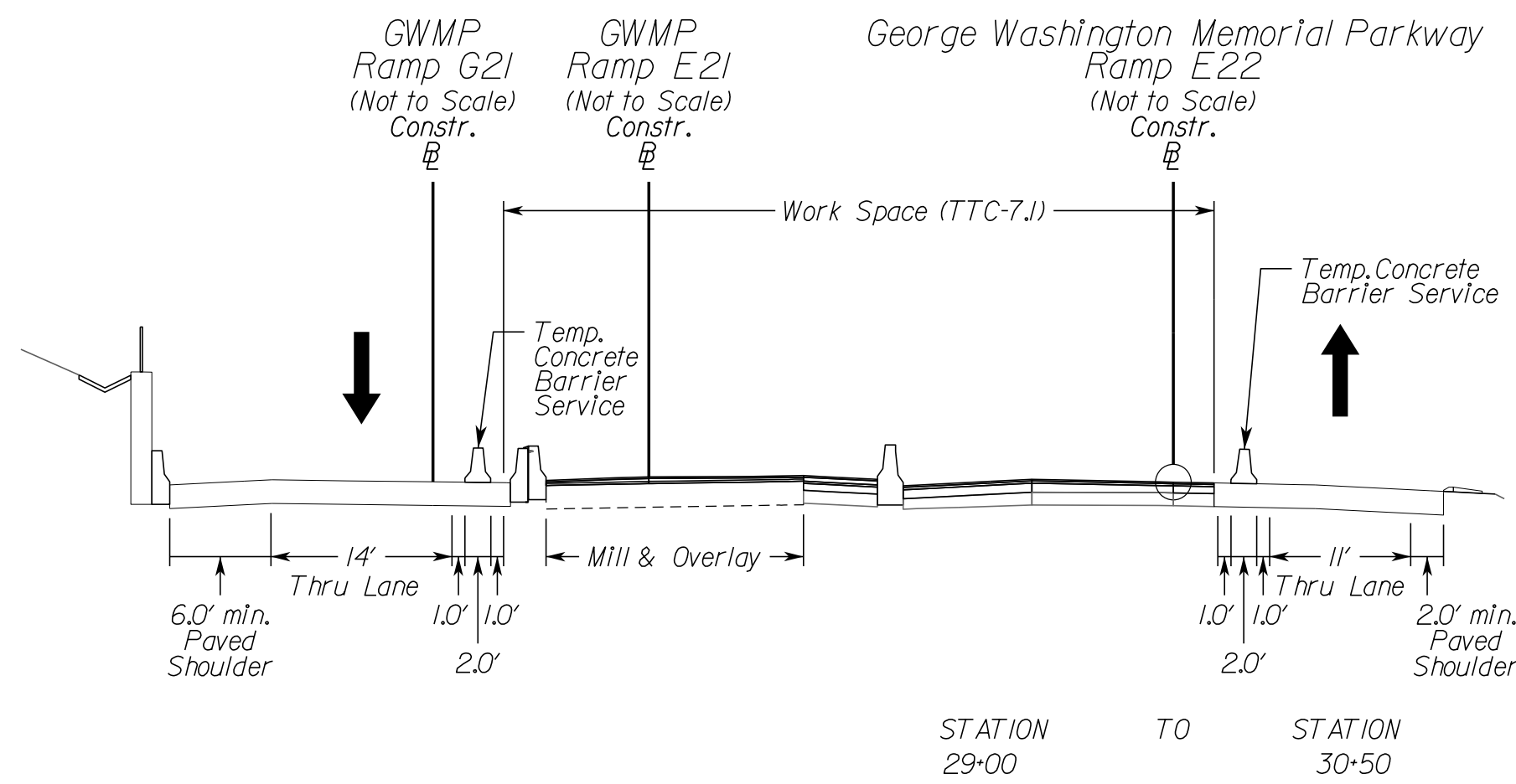
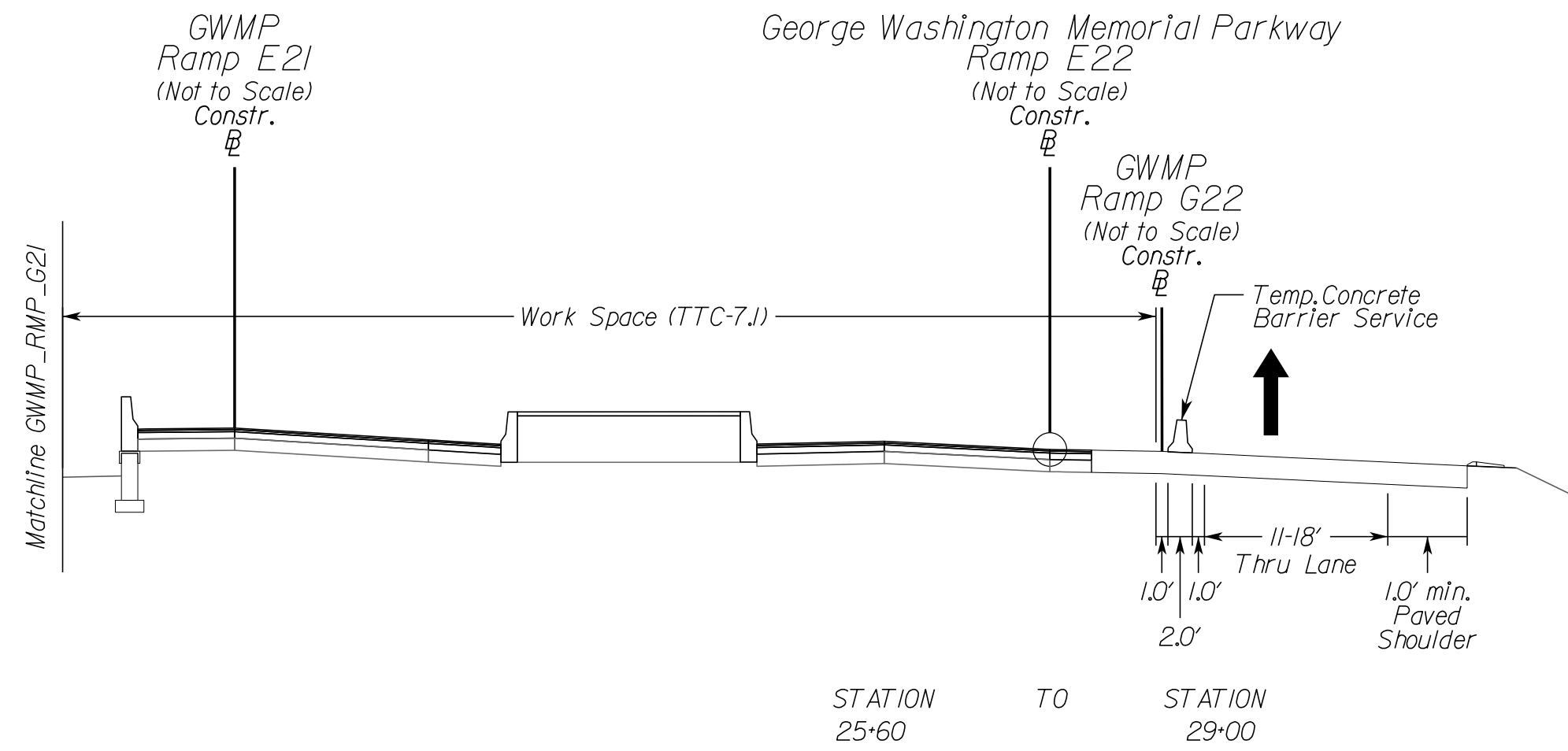
Temporary Traffic Control Typical Sections Phase 1D



REVISED	STATE	ROUTE	STATE	VDOT PROJECT NO.	SHEET NO.
	VA.	495		0495-029-419 C501 RW201	1J(1D)2 AREA 4

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

Rinker Design Assoc., P.C.
Fredericksburg, Virginia
(MOT ENGINEER)



NOVA DISTRICT

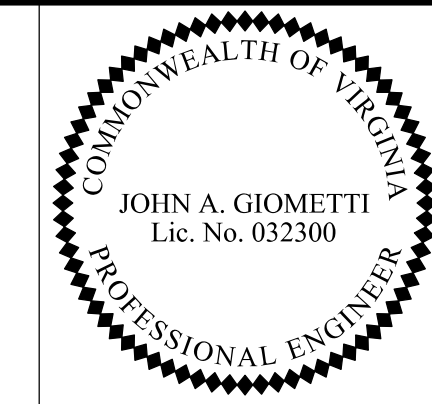
10/26/2022

VDOT PROJECT NO. 0495-029-419	SHEET NO. 1J(1D)2 AREA 4
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APPROVED FOR CONSTRUCTION

PROJECT MANAGER VDOT - Rupal Shah, P.E. (703) 259-2362
 SURVEYED BY, DATE RDA - Nicholas Kaugauls, LS (703) 334-0837, 1/2019
 DESIGN BY RDA - Darrell Fischer, P.E. (703) 334-0823
 SUBSURFACE UTILITY BY, DATE Accumark - Michael Taylor, LS (703) 635-3060, 1/2/2021

Temporary Traffic Control Narrative and Typical Sections Phase IE



Rinker Design Assoc., P.C.
 Fredericksburg, Virginia
 (MOT ENGINEER)

REVISED	STATE	ROUTE	STATE	VDOT PROJECT NO.	SHEET NO.
	VA.	495		0495-029-419 C501 RW201	11(IE)1 AREA 4

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

Sequence of Construction

Phase IE

Purpose: Install temporary traffic control devices including work zone signs, temporary pavement markings and raised markers, concrete barrier service and channelizing devices. These protective measures will allow construction of:
 - I-495 Southbound outside widening
 - George Washington Memorial Parkway Ramp G22 gore area

Advanced signing and any other required traffic control devices associated with each section of the Project are to be installed prior to beginning construction in that section. All conflicting traffic control devices are to be removed or modified, as necessary. Group 2 Channelizing devices may be used to close adjacent lane/shoulder (TTC-4.2/16.2), as necessary, to establish the work space prior to setting barrier and beginning construction activities.

All mill & overlay locations shown in the plans, where located under traffic or barrier, shall be constructed utilizing off-peak lane/shoulder closures, as allowed per note 3 on sheet 1J.

Contractor shall implement Virginia Work Area Protection Manual, 2011 Edition, Revision 2, typical applications for this package may include but not limited to: TTC-1, 4.2, 5.2, 6.2, 7, 11.2, 12, 18.2, 23.2, 28.2, 37.2, 38.2, 39.2, 40.2, 53.0, 55.1, 60.0, 63.2 or other typical applications, as necessary.

Install temporary pavement markings, raised markers, signage and other temporary traffic control devices, as required per VWAPM, including barrier flare rates and warning lights to protect work areas as shown on the plans.

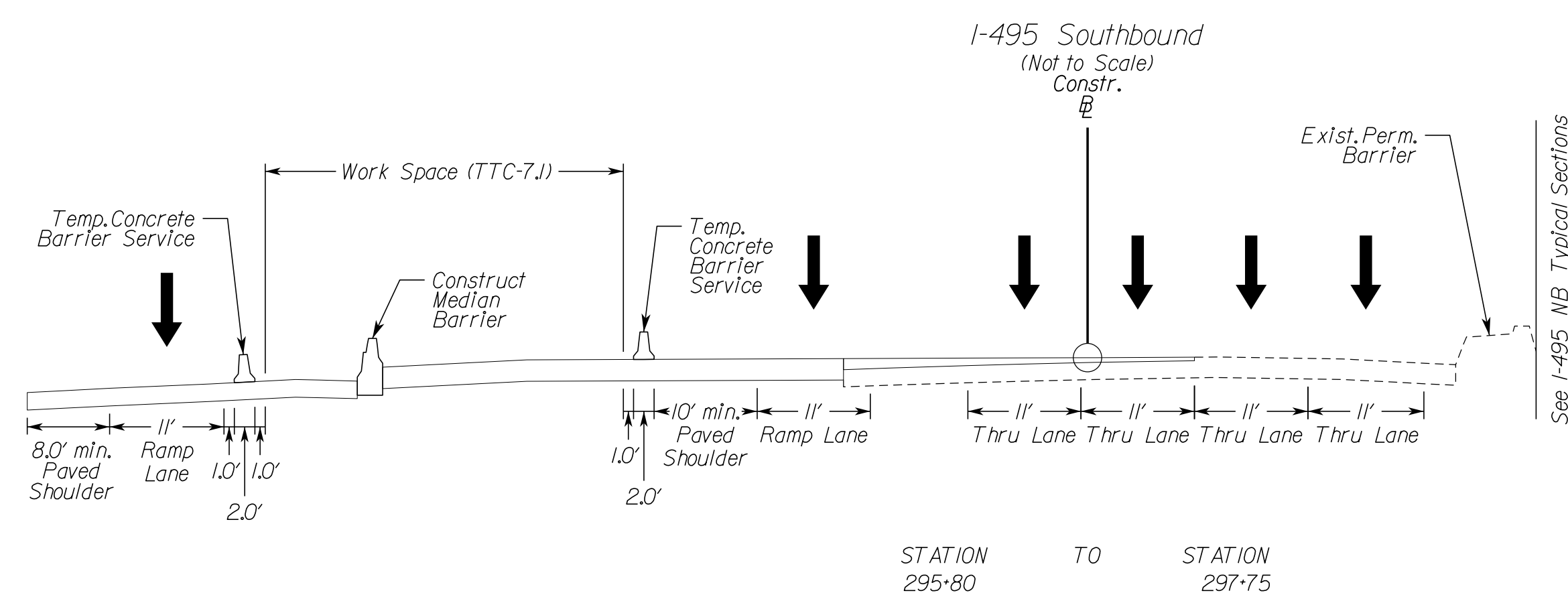
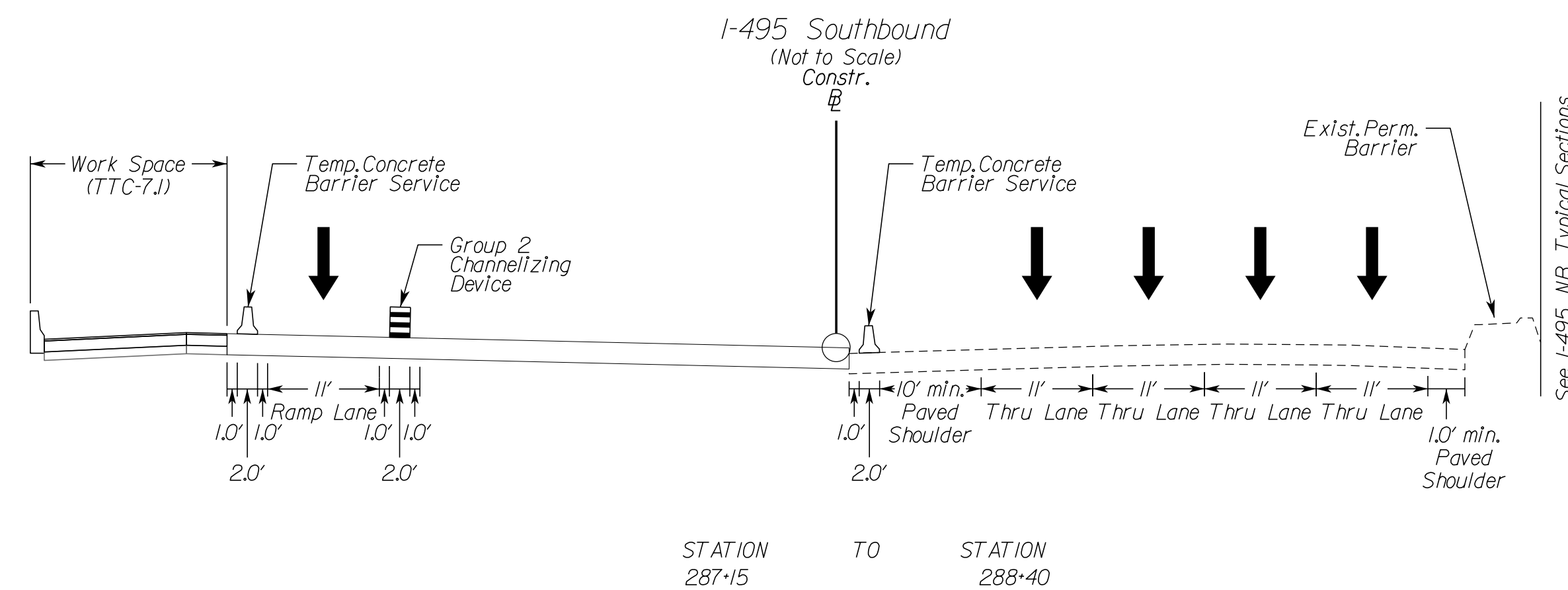
Install temporary traffic barrier service, Group II Channelizing Devices and Impact attenuators TL-3, Type I, throughout the project as shown on the plans. Contractor has the ability to remove these items once no longer required to protect work area.

All construction entrances shown may not be open/active throughout this entire phase of construction. The Contractor has the ability to open and close construction access points, as necessary, as construction progresses. The construction entrances shown are suggested locations, and may be moved as field conditions dictate.

Temporary custom overhead guide signs and modifications and skid/post design will be detailed as part of shop drawings for review by engineer and the Department prior to fabrication. The construction in the immediate area of these sign locations and the associated protection will need sequenced to move to an appropriate completed area, to then allow completion of the original location.

Refer to separate utility plans, under separate cover, for utility relocations associated with the project.

Refer to ITS plans, under separate cover, for PCMS locations and CCTV adjustments.



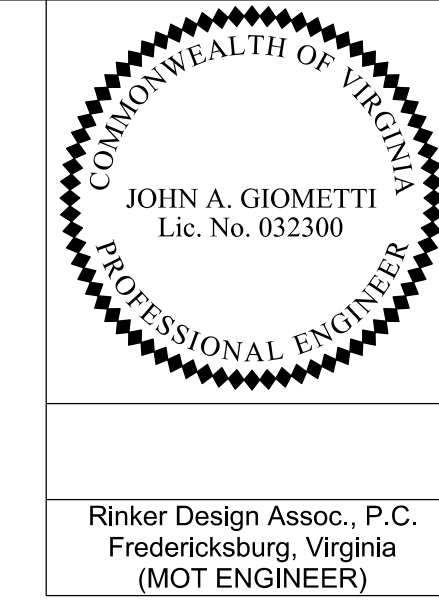
NOVA DISTRICT

10/26/2022

VDOT PROJECT NO. 0495-029-419	SHEET NO. 11(IE)1 AREA 4
----------------------------------	--------------------------------

APPROVED FOR CONSTRUCTION

PROJECT MANAGER_VDOT - Rita Stah, PE, (703) 259-2362
 SURVEYED BY, DATE_RDA - Nicholas Kaugaulis, LS, (703) 334-0837, 1/2019
 DESIGN BY_RDA - Darrell Fischer, PE, (703) 334-0823
 Dewberry - Ron Jakomilich, PE, (703) 849-0651
 SUBSURFACE UTILITY BY, DATE_Accumark - Michael Taylor, LS, (703) 635-3060, 12/2021



REVISED	STATE	ROUTE	STATE	VDOT PROJECT NO.	SHEET NO.
	VA	495		0495-029-419 C501 RW201	11(2A) AREA 4

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

Rinker Design Assoc., P.C.
 Fredericksburg, Virginia
 (MOT ENGINEER)

Temporary Traffic Control Narrative and Typical Sections Phase 2A

Sequence of Construction

Phase 2A

Purpose: Install temporary traffic control devices including work zone signs, temporary pavement markings and raised markers, concrete barrier service and channelizing devices. These protective measures will allow construction of:
 - I-495 Northbound and Southbound mill & overlay and inside widening
 - I-495 Northbound and Southbound median
 - George Washington Memorial Parkway Ramp E21
 - George Washington Memorial Parkway Ramp E22

Advanced signing and any other required traffic control devices associated with each section of the Project are to be installed prior to beginning construction in that section. All conflicting traffic control devices are to be removed or modified, as necessary. Group 2 Channelizing devices may be used to close adjacent lane/shoulder (TTC-4.2, 16.2), as necessary, to establish the work space prior to setting barrier and beginning construction activities.

All mill & overlay locations shown in the plans, where located under traffic or barrier, shall be constructed utilizing off-peak lane/shoulder closures, as allowed per note 3 on sheet 1J.

Contractor shall implement Virginia Work Area Protection Manual, 2011 Edition, Revision 2J, typical applications for this package may include, but not limited to: TTC-1J, 4.2, 5.2, 6.2, 7.1, 16.2, 17.2, 18.2, 23.2, 28.2, 37.2, 38.2, 39.2, 40.2, 53.0, 55J, 60.0, 63.2 or other typical applications, as necessary.

Install temporary pavement markings, raised markers, signage and other temporary traffic control devices, as required per VAWPM, including barrier flare rates and warning lights to protect work areas as shown on the plans.

Install temporary traffic barrier service, Group II Channelizing Devices and Impact attenuators TL-3, Type 1, throughout the project as shown on the plans. Contractor has the ability to remove these items once no longer required to protect work area.

All construction entrances shown may not be open/active throughout this entire phase of construction. The Contractor has the ability to open and close construction access points, as necessary, as construction progresses. The construction entrances shown are suggested locations, and may be moved as field conditions dictate.

Temporary custom overhead guide signs and modifications and skid/post design will be detailed as part of shop drawings for review by engineer and the Department prior to fabrication. The construction in the immediate area of these sign locations and the associated protection will need to be sequenced to move to an appropriate completed area, to then allow completion of the original location.

Refer to separate utility plans, under separate cover, for utility relocations associated with the project.

Refer to ITS plans, under separate cover, for PCMS locations and CCTV adjustments.

Phase 2B (No graphical Plans)

Purpose: Contractor to complete final surface course paving. Final completion of any remaining minor items, including, but not limited to, guardrail, drainage, traffic control devices including permanent pavement markings, the removal of long-term temporary traffic control devices and any other items may occur concurrent with this phase.

Advanced signing and any other required traffic control devices associated for each section of the work are to be installed prior to beginning construction in that section. All conflicting traffic control devices are to be removed or modified, as necessary.

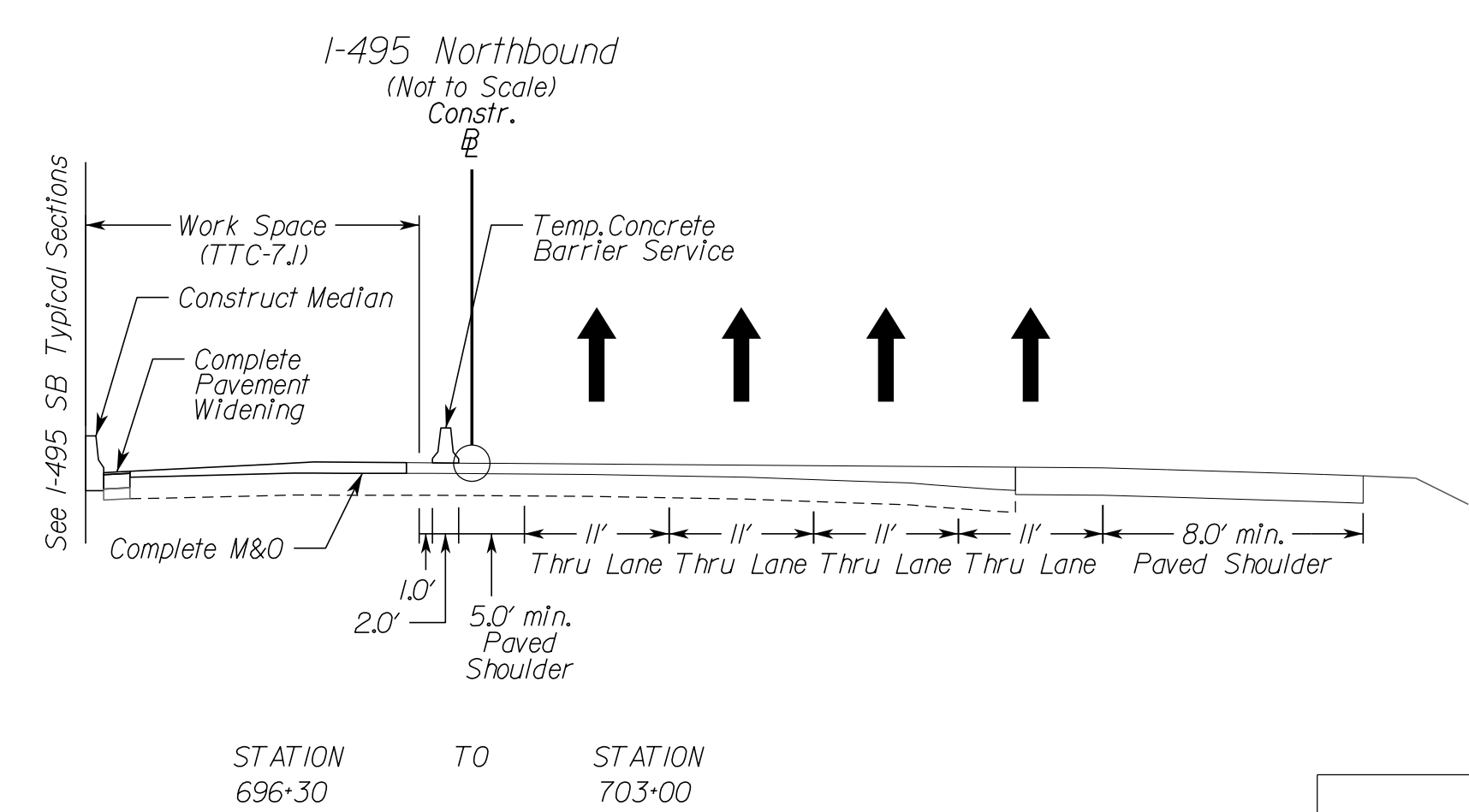
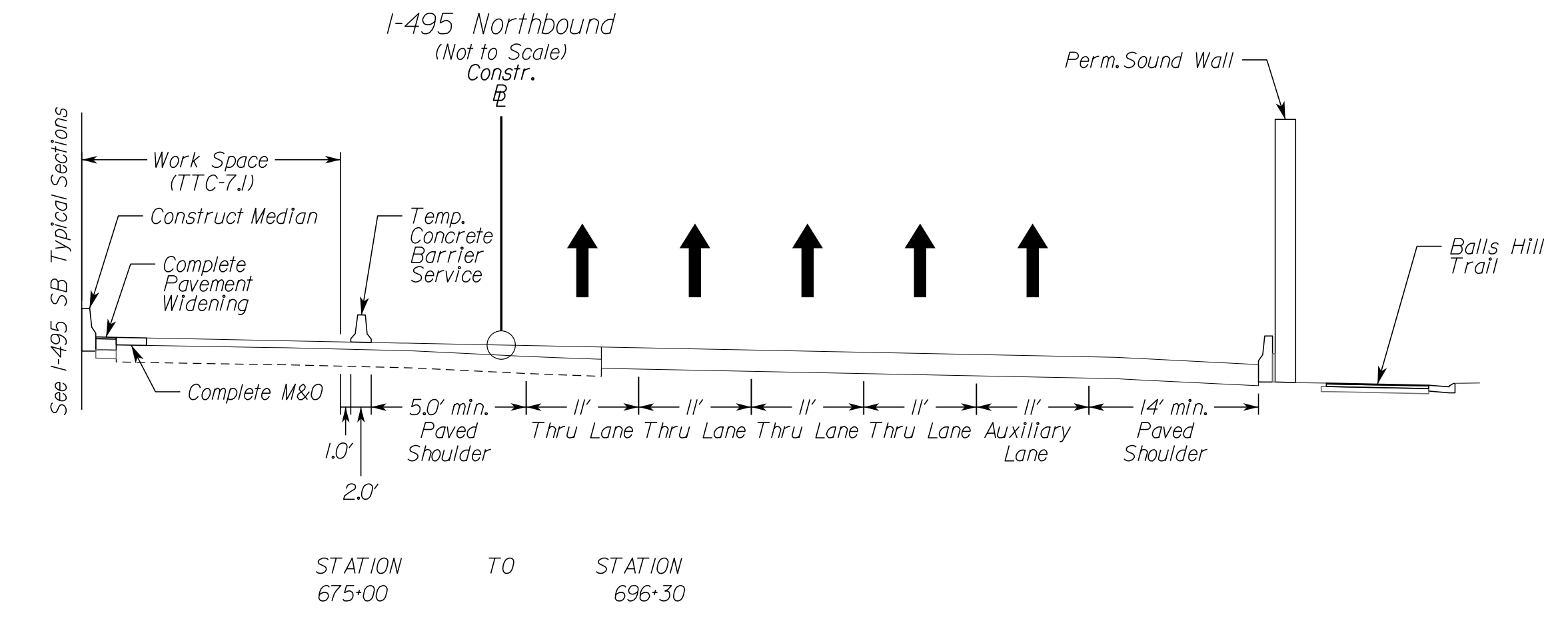
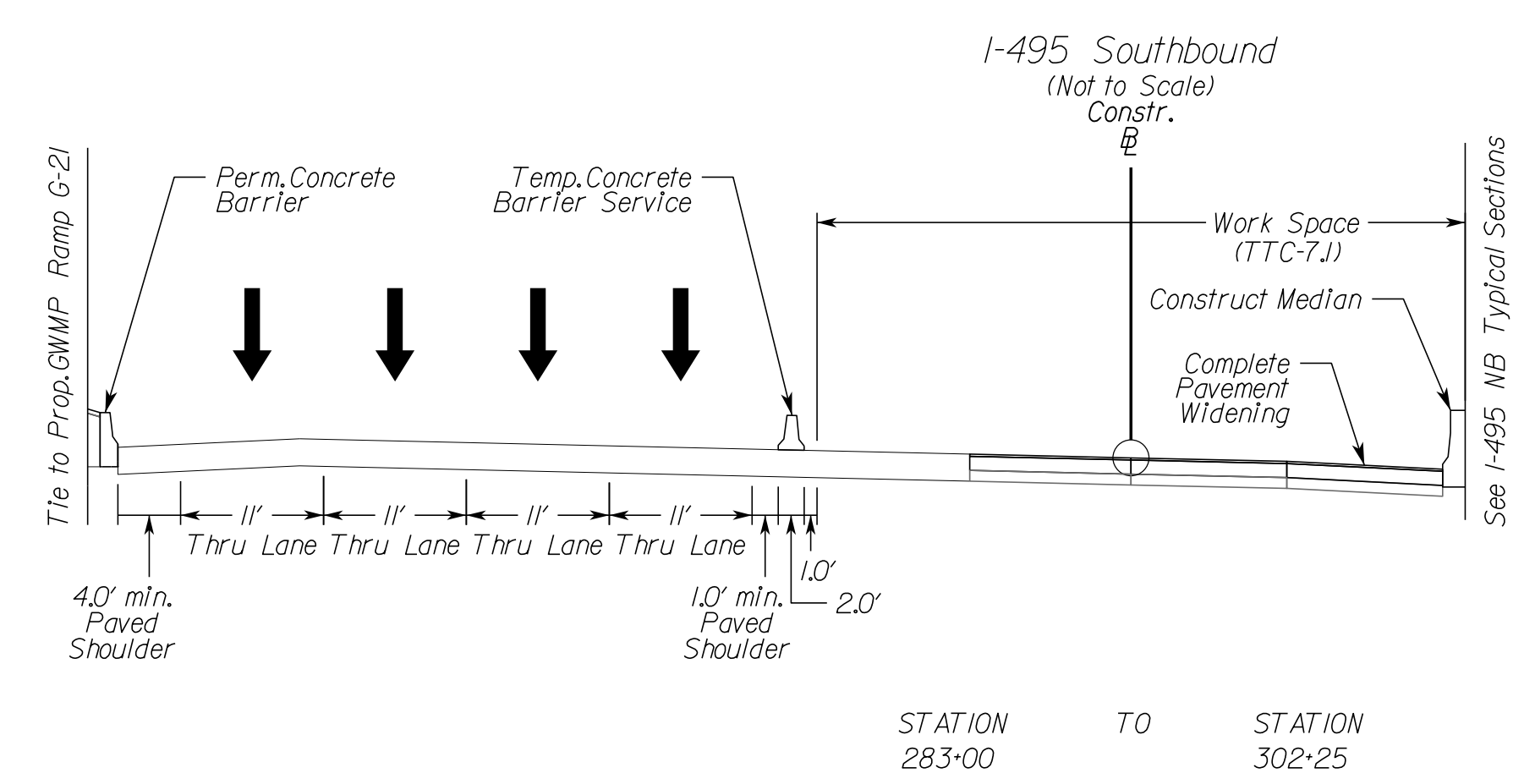
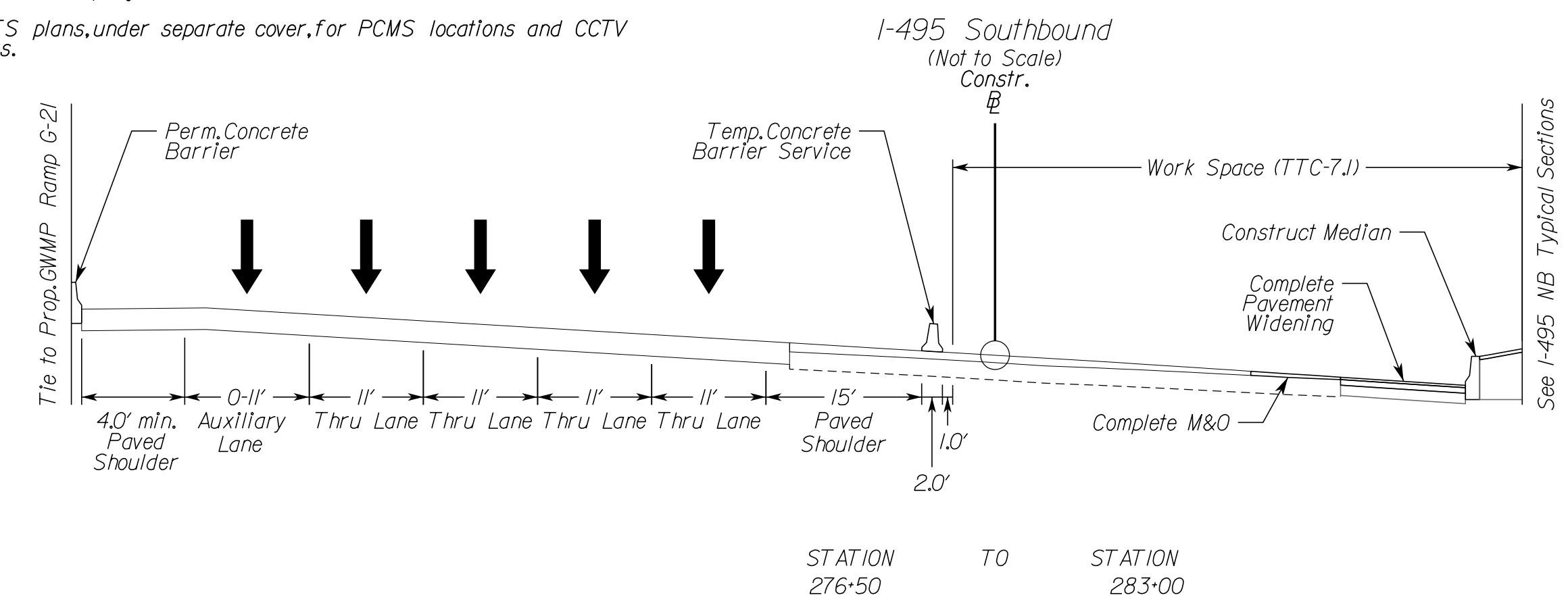
All final paving locations shown in the plans, where located under traffic, shall be constructed utilizing lane/shoulder closures, as allowed per note 3 on sheet 1J.

Contractor shall implement Virginia Work Area Protection Manual, 2011 Edition, Revision 2J, typical applications for this package may include, but not limited to: TTC-1J, 3.2, 4.2, 5.2, 11.2, 12.2, 15.2, 16.2, 17.2, 18.2, 23.2, 26.2, 27.2, 28.2, 37.2, 38.2, 39.2, 53.0, 55J, 60.0, or other typical applications, as necessary.

At the conclusion of this phase of construction, traffic should be in its final ultimate configuration, using the final pavement markings, signage, etc. Refer to signing & pavement markings plans, under separate cover, for additional detail.

Retaining Wall / Sound Wall Summary Table (Phase 2A Construction)

Name	Baseline/Station Range
RW 22	GWMP Ramp E21 Baseline Sta. 12+56.31 to Sta. 14+03.49
RW 20	GWMP Ramp E21 Baseline Sta. 13+06.58 to Sta. 14+03.49
RW 21	GWMP Ramp E22 Baseline Sta. 12+60.03 to Sta. 12+81.77



VDOT PROJECT NO. 0495-029-419	SHEET NO. 11(2A) AREA 4
----------------------------------	-------------------------------

APPROVED FOR CONSTRUCTION

NOVA DISTRICT

PROJECT MANAGER_VDOT - Rupal Shah, PE, (703) 259-2362
SURVEYED BY, DATE_RDA - Nicholas Kougoullis, LS, (703) 334-0837, 1/2019
DESIGN BY_RDA - Darrell Fischer, PE, (703) 334-0823
SUBSURFACE UTILITY BY, DATE_Accurmark - Michael Taylor, LS, (703) 635-3060, 12/2021

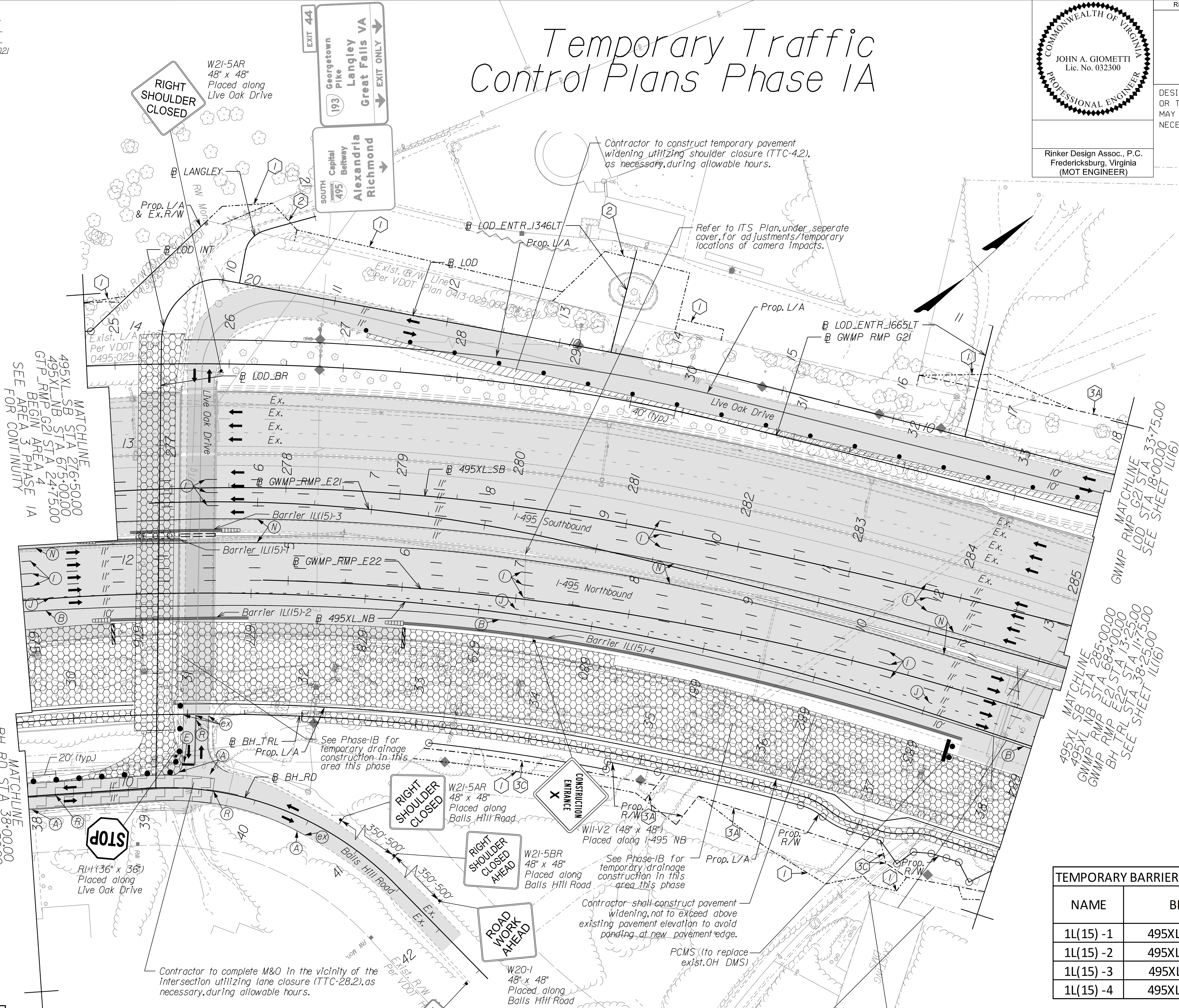
COMMONWEALTH OF VIRGINIA
PROFESSIONAL ENGINEER
JOHN A. GIOMETTI
Lic. No. 032300

Rinker Design Assoc., P.C.
Fredericksburg, Virginia
(MOT ENGINEER)

REVISION	STATE	ROUTE	STATE	VDOT PROJECT NO.	SHEET NO.
	VA	495		0495-029-419 C501 RW201	IL(15) AREA 4

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

Temporary Traffic Control Plans Phase 1A



MATCHLINE
495XL-SB STA 276+50.00
495XL-NB STA 675+00.00
GTP_RMP_G21 STA 247+50.00
BEGIN AREA 3
SEE FOR CONTINUITY

MATCHLINE
BH_TRL STA 38+00.00
BH_TRL STA 29+50.00
BEGIN AREA 4
SEE FOR CONTINUITY

MATCHLINE
LOD_ENTR_G21 STA 337+75.00
LOD_ENTR_G21 STA 18+00.00
SEE SHEET IL(16)

MATCHLINE
495XL-SB STA 285+00.00
495XL-NB STA 284+00.00
GWP_RMP_E22 STA 13+25.00
BH_TRL STA 38+25.00
SEE SHEET IL(16)

TEMPORARY BARRIER TABLE (LENGTHS ARE APPROXIMATE)

NAME	BL	BEGIN		END	
		STATION	OFFSET	STATION	OFFSET
1L(15)-1	495XL_NB	675+66	47.45' LT	676+39	46.82' LT
1L(15)-2	495XL_NB	675+76	21.77 RT	676+98	21.49' RT
1L(15)-3	495XL_SB	276+61	37.00' RT	277+44	37.38' RT
1L(15)-4	495XL_NB	678+35	18.87' RT	683+40	13.06' RT

Temporary Pavement Marking Legend

(A) White, 4" Width, Solid Line	(M) Yellow, 4" Width, Solid Line
(B) White, 6" Width, Solid Line	(N) Yellow, 6" Width, Solid Line
(C) White, 8" Width, Solid Line	(O) Yellow, 8" Width, Solid Line
(D) White, 12" Width, Solid Line	(P) Yellow, 12" Width, Solid Line
(E) White, 24" Width, Solid Line	(Q) Yellow, 4" Width, 2' Long, 6' Space
(F) White, 4" Width, 2' Long, 6' Space	(R) Yellow, 4" Width, Double Line
(G) White, 4" Width, 10' Long, 30' Space	(S) Yellow, 6" Width, Double Line
(H) White, 6" Width, 3' Long, 9' Space	(T) Yellow, 24" Width @ 45'
(I) White, 6" Width, 10' Long, 30' Space	(U) White, Pavement Marking, Sym./Mess.
(J) White, 8" Width, 3' Long, 9' Space	(V) White, 8" Width, 3' Long, 12' Space
(K) White, 8" Width, 10' Long, 30' Space	(W) Type E Removable Black Tape
(L) White, Yield Marking	(X) Existing Pavement Marking

Note: Temporary raised pavement markers shall be installed in accordance with the VWAPM.

Legend

- Denotes Full-Depth Perm. Pavement Construction This Phase
- Denotes Mill & Overlay/Build-Up Construction This Phase
- Denotes Temp. Pavement Construction This Phase
- Denotes Traffic Area
- Denotes Work Area
- Denotes Traffic Flow
- Denotes Group II Channelizing Devices
- Denotes Temporary Concrete Barrier
- Denotes TL-3, Type I Impact Attenuator
- Denotes Type III Barricade (Incl. R5-1 "Do Not Enter" Sign)

Note: Legend items shown in grey denote previous phase work/placement.

NOTE:
SEE SHEET 2Z FOR RIGHT-OF-WAY LEGEND.

SCALE
0 50' 100'

VDOT PROJECT NO.
0495-029-419

SHEET NO.
IL(15)
AREA 4

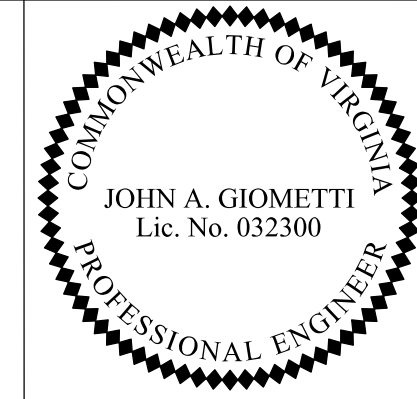
APPROVED FOR CONSTRUCTION

NOVA DISTRICT

10/26/2022

PROJECT MANAGER_VDOT - Rupal Shah, PE, (703) 259-2362
 SURVEYED BY, DATE_RDA - Nicholas Kaugaulis, LS, (703) 334-0837, 1/2019
 DESIGN BY_RDA - Darrell Fischer, PE, (703) 334-0823
 SUBSURFACE UTILITY BY, DATE_Accumark - Michael Taylor, LS, (703) 635-3060, 12/2021

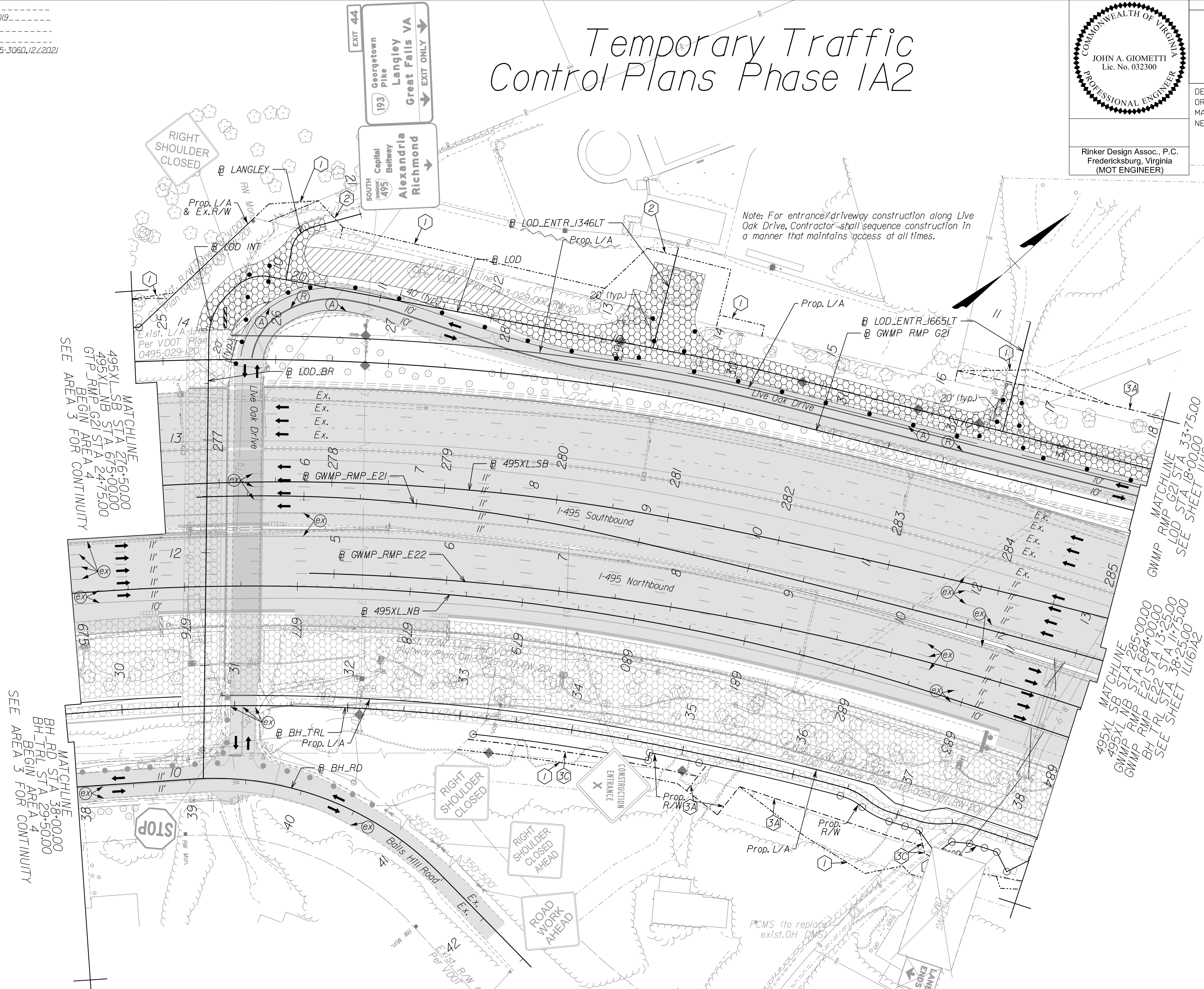
Temporary Traffic Control Plans Phase 1A2



Rinker Design Assoc., P.C.
 Fredericksburg, Virginia
 (MOT ENGINEER)

REVISED	STATE	ROUTE	STATE	VDOT PROJECT NO.	SHEET NO.
	VA	495		0495-029-419 C501 RW201	1L151A2 AREA 4

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



NOVA DISTRICT

(A) White, 4" Width, Solid Line	(M) Yellow, 4" Width, Solid Line
(B) White, 6" Width, Solid Line	(N) Yellow, 6" Width, Solid Line
(C) White, 8" Width, Solid Line	(O) Yellow, 8" Width, Solid Line
(D) White, 12" Width, Solid Line	(P) Yellow, 12" Width, Solid Line
(E) White, 24" Width, Solid Line	(Q) Yellow, 4" Width, 2' Long, 6' Space
(F) White, 4" Width, 2' Long, 6' Space	(R) Yellow, 4" Width, Double Line
(G) White, 4" Width, 10' Long, 30' Space	(S) Yellow, 6" Width, Double Line
(H) White, 6" Width, 3' Long, 9' Space	(T) Yellow, 24" Width @ 45°
(I) White, 6" Width, 10' Long, 30' Space	(U) White, Pavement Marking, Sym./Mess.
(J) White, 8" Width, 3' Long, 9' Space	(V) White, 8" Width, 3' Long, 12' Space
(K) White, 8" Width, 10' Long, 30' Space	(W) Type E Removable Black Tape
(L) White, Yield Marking	(X) Existing Pavement Marking

Note: Temporary raised pavement markers shall be installed in accordance with the VWAPM.

	Denotes Full-Depth Perm. Pavement Construction This Phase
	Denotes Mill & Overlay/Build-Up Construction This Phase
	Denotes Temp. Pavement Construction This Phase
	Denotes Traffic Area
	Denotes Work Area
	Denotes Traffic Flow
	Denotes Group II Channellizing Devices
	Denotes Temporary Concrete Barrier
	Denotes TL-3, Type I Impact Attenuator
	Denotes Type III Barricade (Incl. R5-1 'Do Not Enter' Sign)

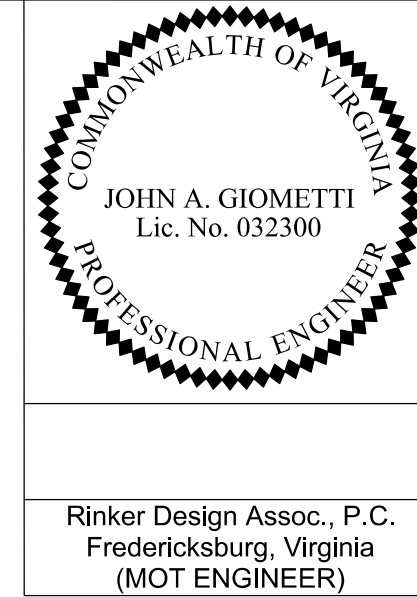
Note: Legend items shown in grey denote previous phase work/placement.

NOTE:
 SEE SHEET 2Z FOR RIGHT-OF-WAY LEGEND.

SCALE 0 50' 100'	VDOT PROJECT NO. 0495-029-419	SHEET NO. 1L151A2 AREA 4
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APPROVED FOR CONSTRUCTION

PROJECT MANAGER_VDOT - Rupal Shah, PE, (703) 259-2362
 SURVEYED BY, DATE_RDA - Nicholas Kougoullis, LS, (703) 334-0837, 1/2019
 DESIGN BY_RDA - Darrell Fischer, PE, (703) 334-0823
 SUBSURFACE UTILITY BY, DATE_Accurmark - Michael Taylor, LS, (703) 635-3060, 1/2/2021



REVISED	STATE	ROUTE	STATE	VDOT PROJECT NO.	SHEET NO.
	VA	495		0495-029-419 C501 RW201	1L1151A3 AREA 4

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

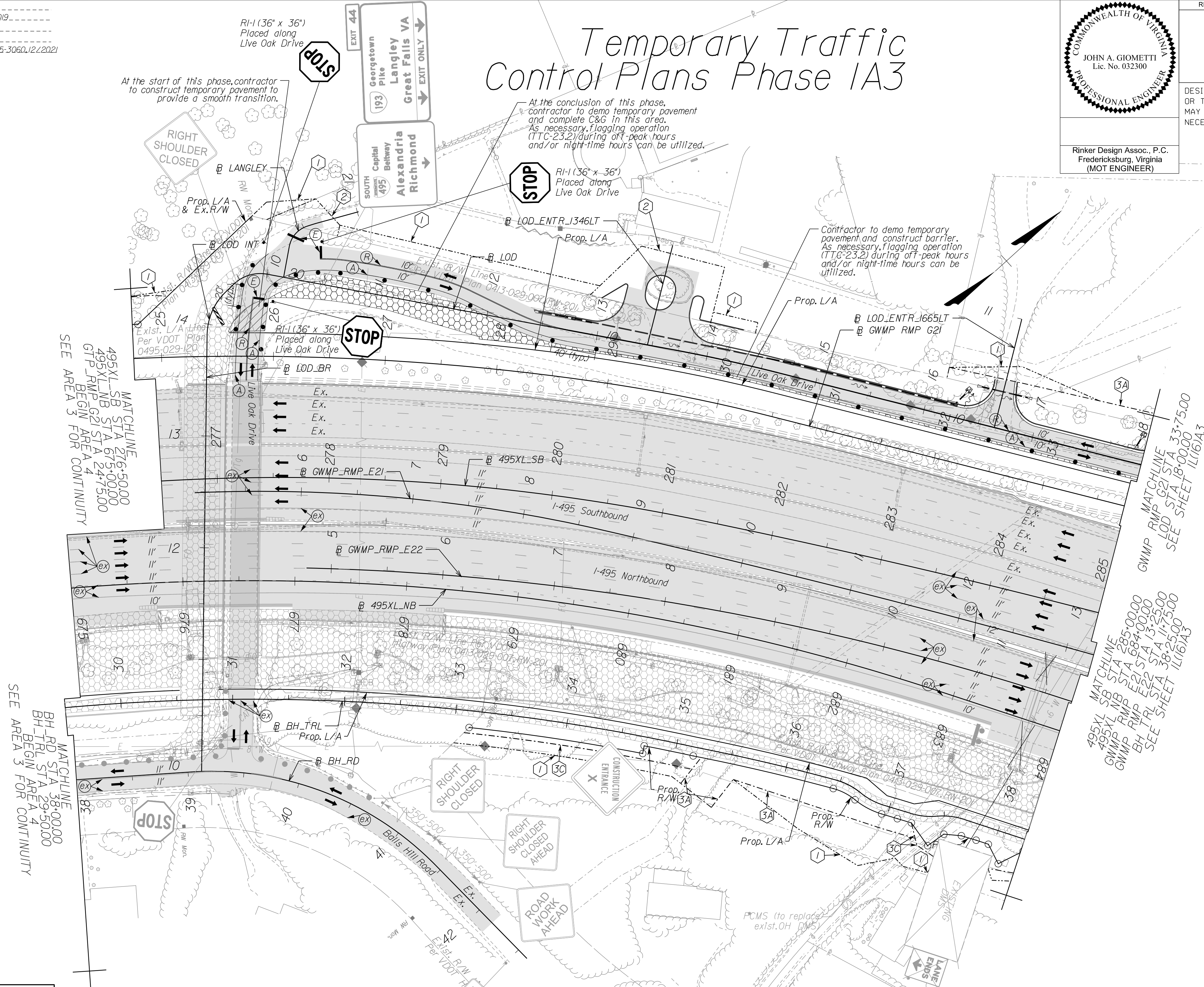
Rinker Design Assoc., P.C.
 Fredericksburg, Virginia
 (MOT ENGINEER)

Temporary Traffic Control Plans Phase 1A3

At the start of this phase, contractor to construct temporary pavement to provide a smooth transition.

At the conclusion of this phase, contractor to demo temporary pavement and complete C&G in this area. As necessary, flagging operation (TTC-23.2) during off-peak hours and/or night-time hours can be utilized.

Contractor to demo temporary pavement and construct barrier. As necessary, flagging operation (TTC-23.2) during off-peak hours and/or night-time hours can be utilized.



SEE AREA 3 FOR CONTINUITY

SEE SHEET 1L1161A3

Temporary Pavement Marking Legend

(A) White, 4" Width, Solid Line	(M) Yellow, 4" Width, Solid Line
(B) White, 6" Width, Solid Line	(N) Yellow, 6" Width, Solid Line
(C) White, 8" Width, Solid Line	(O) Yellow, 8" Width, Solid Line
(D) White, 12" Width, Solid Line	(P) Yellow, 12" Width, Solid Line
(E) White, 24" Width, Solid Line	(Q) Yellow, 4" Width, 2' Long, 6' Space
(F) White, 4" Width, 2' Long, 6' Space	(R) Yellow, 4" Width, Double Line
(G) White, 4" Width, 10' Long, 30' Space	(S) Yellow, 6" Width, Double Line
(H) White, 6" Width, 3' Long, 9' Space	(T) Yellow, 24" Width @ 45°
(I) White, 6" Width, 10' Long, 30' Space	(U) White, Pavement Mark, Sym./Mess.
(J) White, 8" Width, 3' Long, 9' Space	(V) White, 8" Width, 3' Long, 12' Space
(K) White, 8" Width, 10' Long, 30' Space	(W) Type E Removable Black Tape
(L) White, Yield Marking	(X) Existing Pavement Marking

Note: Temporary raised pavement markers shall be installed in accordance with the VWAPM.

Legend

[Diagonal Hatching]	Denotes Full-Depth Perm. Pavement Construction This Phase
[Cross-Hatch]	Denotes Mill & Overlay/Build-Up Construction This Phase
[Horizontal Hatching]	Denotes Temp. Pavement Construction This Phase
[Grey Fill]	Denotes Traffic Area
[Dotted Fill]	Denotes Work Area
[Arrow]	Denotes Traffic Flow
[Dashed Line]	Denotes Group II Channelizing Devices
[Solid Line]	Denotes Temporary Concrete Barrier
[Dashed Line]	Denotes TL-3, Type I Impact Attenuator
[Wavy Line]	Denotes Type III Barricade (Incl. R5-1 'Do Not Enter' Sign)

Note: Legend items shown in grey denote previous phase work/placement.

NOTE:
SEE SHEET 2Z FOR RIGHT-OF-WAY LEGEND.

SCALE 0 50' 100'	VDOT PROJECT NO. 0495-029-419	SHEET NO. 1L1151A3 AREA 4
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APPROVED FOR CONSTRUCTION

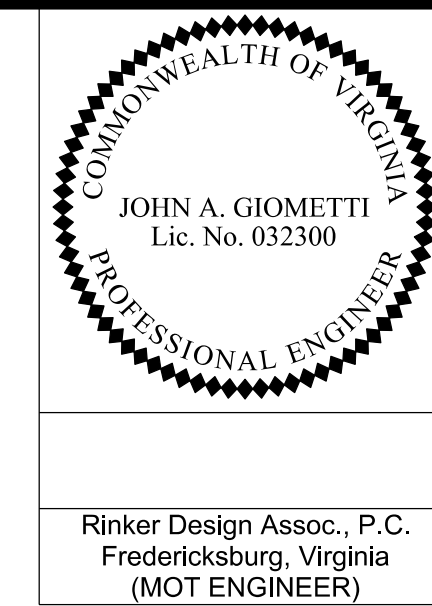
NOVA DISTRICT

10/26/2022

PROJECT MANAGER_VDOT - Rupal Shah, P.E. (703) 259-2362
 SURVEYED BY, DATE_RDA - Nicholas Kaugaulis, LS (703) 334-0837, 1/2019
 DESIGN BY_RDA - Darrell Fischer, P.E. (703) 334-0823
 SUBSURFACE UTILITY BY, DATE_Accurmark - Michael Taylor, LS (703) 635-3060, 12/2021

Temporary Traffic Control Plans Phase 1A

NAME	BL	BEGIN		END	
		STATION	OFFSET	STATION	OFFSET
1L(16) -1	495XL_NB/495XL_NBC	684+76	13.30' RT	690+00	1.67' LT
1L(16) -2	495XL_NBC	691+36	0.41' RT	SEE SHEET 1L(17)	



REVISED	STATE	ROUTE	STATE	VDOT PROJECT NO.	SHEET NO.
	VA	495		0495-029-419 C501 RW201	1L(16) AREA 4

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

Rinker Design Assoc., P.C.
 Fredericksburg, Virginia
 (MOT ENGINEER)

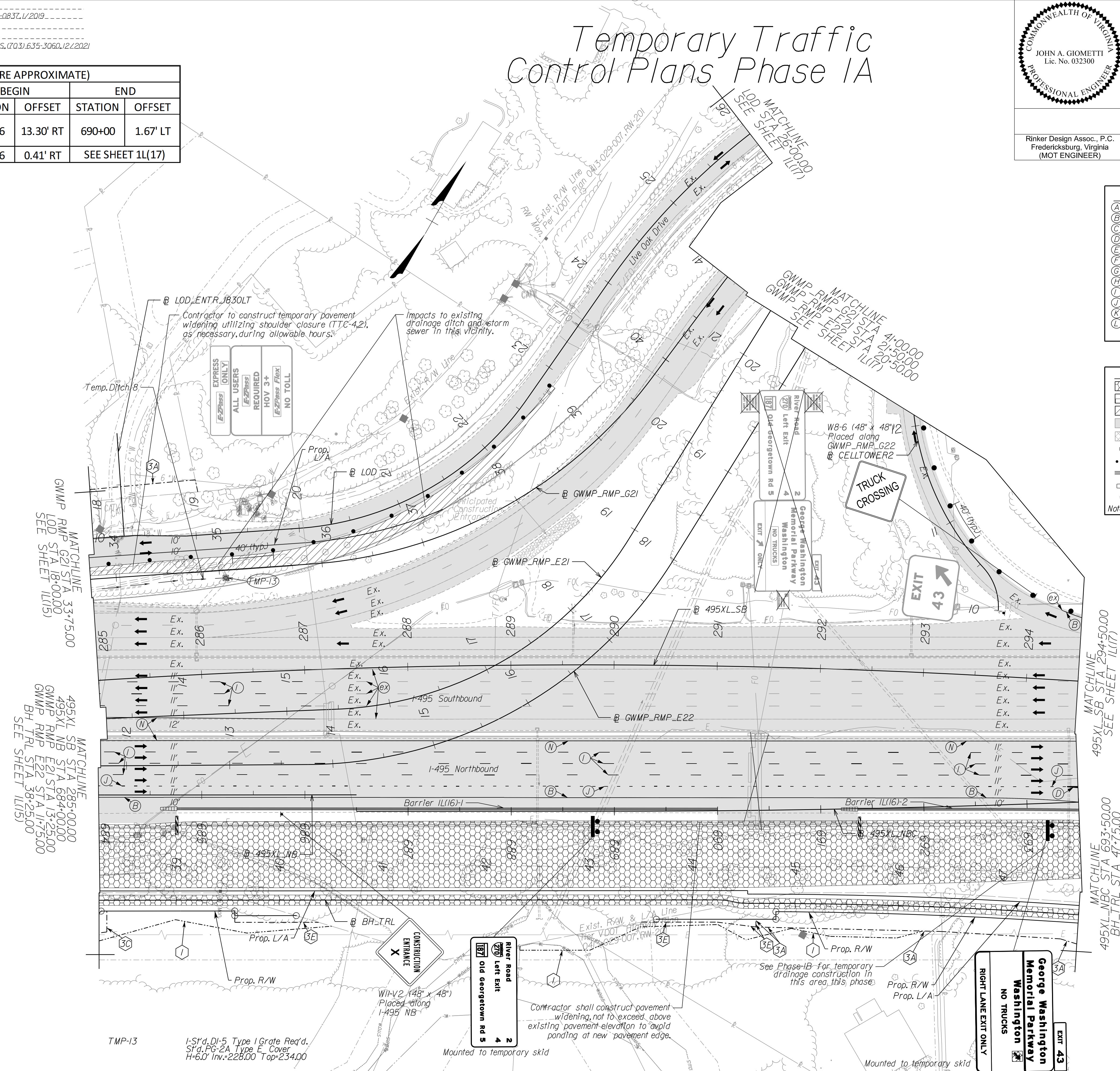
(A) White, 4" Width, Solid Line	(M) Yellow, 4" Width, Solid Line
(B) White, 6" Width, Solid Line	(N) Yellow, 6" Width, Solid Line
(C) White, 8" Width, Solid Line	(O) Yellow, 8" Width, Solid Line
(D) White, 12" Width, Solid Line	(P) Yellow, 12" Width, Solid Line
(E) White, 24" Width, Solid Line	(Q) Yellow, 4" Width, 2' Long, 6' Space
(F) White, 4" Width, 2' Long, 6' Space	(R) Yellow, 4" Width, Double Line
(G) White, 4" Width, 10' Long, 30' Space	(S) Yellow, 6" Width, Double Line
(H) White, 6" Width, 3' Long, 9' Space	(T) Yellow, 24" Width @ 45°
(I) White, 6" Width, 10' Long, 30' Space	(U) White, Pav. Mark. Sym./Mess.
(J) White, 8" Width, 3' Long, 9' Space	(V) White, 8" Width, 3' Long, 12' Space
(K) White, 8" Width, 10' Long, 30' Space	(W) Type E Removable Black Tape
(L) White, Yield Marking	(X) Existing Pavement Marking

Note: Temporary, raised pavement markers shall be installed in accordance with the VMAP.

[Pattern]	Denotes Full-Depth Perm. Pavement Construction This Phase
[Pattern]	Denotes Mill & Overlay/Build-Up Construction This Phase
[Pattern]	Denotes Temp. Pavement Construction This Phase
[Pattern]	Denotes Traffic Area
[Pattern]	Denotes Work Area
[Arrow]	Denotes Traffic Flow
[Dotted]	Denotes Group II Channelizing Devices
[Line]	Denotes Temporary Concrete Barrier
[Symbol]	Denotes TL-3, Type I Impact Attenuator
[Symbol]	Denotes Type III Barricade (Incl. R5-1 "Do Not Enter" Sign)

Note: Legend items shown in grey denote previous phase work/placement.

NOTE:
 SEE SHEET 2Z FOR RIGHT-OF-WAY LEGEND.



NOVA DISTRICT

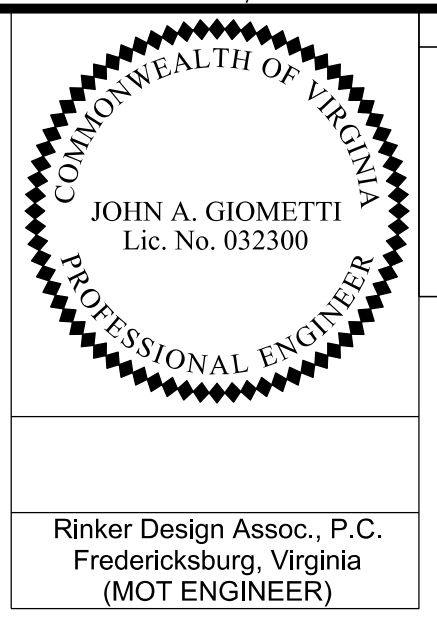
10/26/2022

APPROVED FOR CONSTRUCTION

SCALE 0 50' 100'	VDOT PROJECT NO. 0495-029-419	SHEET NO. 1L(16) AREA 4
---------------------	----------------------------------	-------------------------------

PROJECT MANAGER VDOT - Rupal Shah, PE, (703) 259-2362
 SURVEYED BY, DATE RDA - Nicholas Kougoullis, LS, (703) 334-0837, 1/2019
 DESIGN BY RDA - Darrell Fischer, PE, (703) 334-0823
 SUBSURFACE UTILITY BY, DATE Accumark - Michael Taylor, LS, (703) 635-3060, 12/2021

Temporary Traffic Control Plans Phase 1A2



REVISED	STATE	ROUTE	STATE	VDOT PROJECT NO.	SHEET NO.
	VA	495		0495-029-419 C501 RW201	1L161A2 AREA 4

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

Rinker Design Assoc., P.C.
 Fredericksburg, Virginia
 (MOT ENGINEER)

Temporary Pavement Marking Legend

(A) White, 4" Width, Solid Line	(M) Yellow, 4" Width, Solid Line
(B) White, 6" Width, Solid Line	(N) Yellow, 6" Width, Solid Line
(C) White, 8" Width, Solid Line	(O) Yellow, 8" Width, Solid Line
(D) White, 12" Width, Solid Line	(P) Yellow, 12" Width, Solid Line
(E) White, 24" Width, Solid Line	(Q) Yellow, 4" Width, 2' Long, 6' Space
(F) White, 4" Width, 2' Long, 6' Space	(R) Yellow, 4" Width, Double Line
(G) White, 4" Width, 10' Long, 30' Space	(S) Yellow, 6" Width, Double Line
(H) White, 6" Width, 3' Long, 9' Space	(T) Yellow, 24" Width @ 45°
(I) White, 6" Width, 10' Long, 30' Space	(U) White, Pav. Mark. Sym./Mess.
(J) White, 8" Width, 3' Long, 9' Space	(V) White, 8" Width, 3' Long, 12' Space
(K) White, 8" Width, 10' Long, 30' Space	(W) Type E Removable Black Tape
(L) White, Yield Marking	(X) Existing Pavement Marking

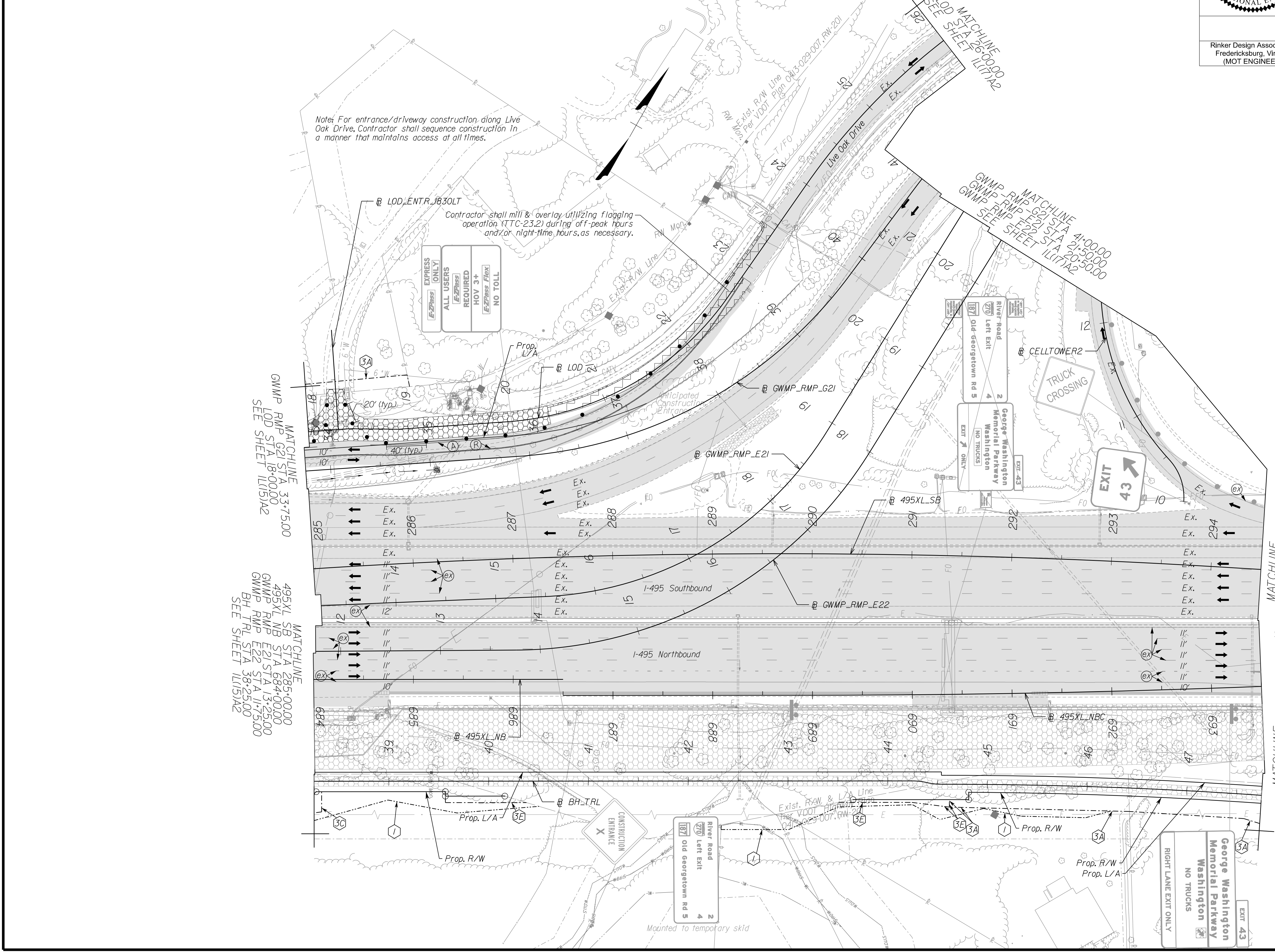
Note: Temporary, raised pavement markers shall be installed in accordance with the VMAP.

Legend

[Pattern]	Denotes Full-Depth Perm. Pavement Construction This Phase
[Pattern]	Denotes Mill & Overlay/Build-Up Construction This Phase
[Pattern]	Denotes Temp. Pavement Construction This Phase
[Pattern]	Denotes Traffic Area
[Pattern]	Denotes Work Area
[Arrow]	Denotes Traffic Flow
[Dotted]	Denotes Group II Channelizing Devices
[Line]	Denotes Temporary Concrete Barrier
[Symbol]	Denotes TL-3, Type I Impact Attenuator
[Symbol]	Denotes Type III Barricade (Incl. R5-1 "Do Not Enter" Sign)

Note: Legend items shown in grey denote previous phase work/placement.

NOTE:
 SEE SHEET 2Z FOR RIGHT-OF-WAY LEGEND.



NOVA DISTRICT

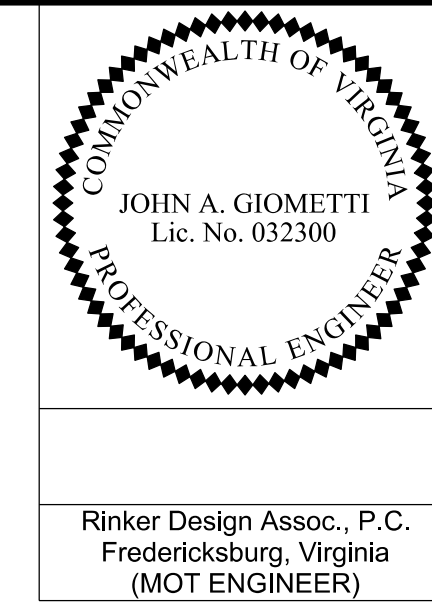
10/26/2022

APPROVED FOR CONSTRUCTION

SCALE 0 50' 100'	VDOT PROJECT NO. 0495-029-419	SHEET NO. 1L161A2 AREA 4
---------------------	----------------------------------	--------------------------------

PROJECT MANAGER_VDOT - Rupal Shah, P.E. (703) 259-2362
 SURVEYED BY, DATE_RDA - Nicholas Kougoullis, L.S. (703) 334-0837, 1/2019
 DESIGN BY_RDA - Darrell Fischer, P.E. (703) 334-0823
 SUBSURFACE UTILITY BY, DATE_Accurmark - Michael Taylor, L.S. (703) 635-3060, 12/2021

Temporary Traffic Control Plans Phase 1A3



REVISED	STATE	ROUTE	STATE	VDOT PROJECT NO.	SHEET NO.
	VA.	495		0495-029-419 C501 RW201	1L161A3 AREA 4

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

Rinker Design Assoc., P.C.
 Fredericksburg, Virginia
 (MOT ENGINEER)

Temporary Pavement Marking Legend

(A) White, 4" Width, Solid Line	(M) Yellow, 4" Width, Solid Line
(B) White, 6" Width, Solid Line	(N) Yellow, 6" Width, Solid Line
(C) White, 8" Width, Solid Line	(O) Yellow, 8" Width, Solid Line
(D) White, 12" Width, Solid Line	(P) Yellow, 12" Width, Solid Line
(E) White, 24" Width, Solid Line	(Q) Yellow, 4" Width, 2' Long, 6' Space
(F) White, 4" Width, 2' Long, 6' Space	(R) Yellow, 4" Width, Double Line
(G) White, 4" Width, 10' Long, 30' Space	(S) Yellow, 6" Width, Double Line
(H) White, 6" Width, 3' Long, 9' Space	(T) Yellow, 24" Width @ 45°
(I) White, 6" Width, 10' Long, 30' Space	(U) White, Pavement Mark. Sym./Mess.
(J) White, 8" Width, 3' Long, 9' Space	(V) White, 8" Width, 3' Long, 12' Space
(K) White, 8" Width, 10' Long, 30' Space	(W) Type E Removable Black Tape
(L) White, Yield Marking	(X) Existing Pavement Marking

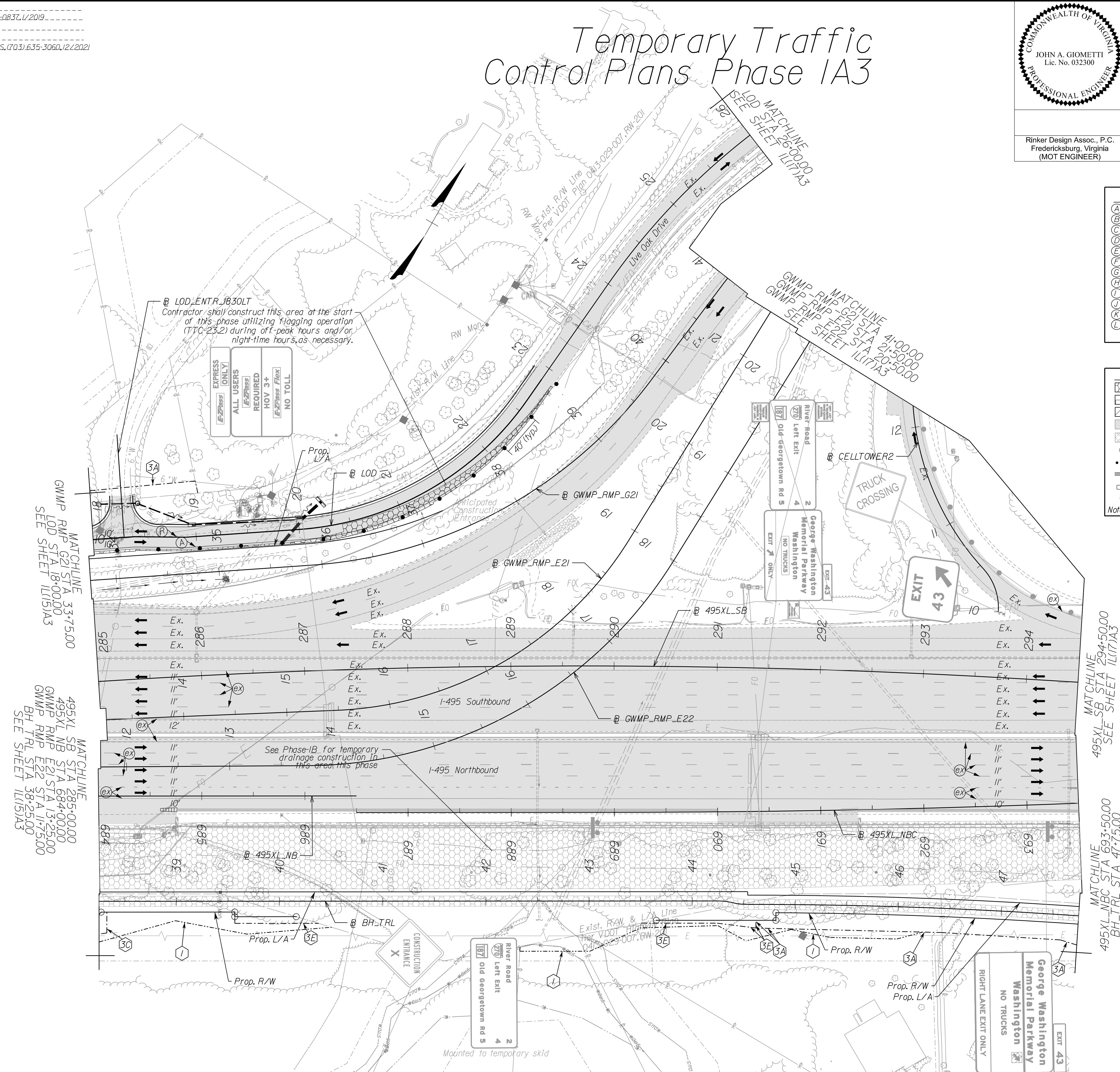
Note: Temporary, raised pavement markers shall be installed in accordance with the VMAP.

Legend

[Pattern]	Denotes Full-Depth Perm. Pavement Construction This Phase
[Pattern]	Denotes Mill & Overlay/Build-Up Construction This Phase
[Pattern]	Denotes Temp. Pavement Construction This Phase
[Pattern]	Denotes Traffic Area
[Pattern]	Denotes Work Area
[Arrow]	Denotes Traffic Flow
[Dotted]	Denotes Group II Channelizing Devices
[Line]	Denotes Temporary Concrete Barrier
[Symbol]	Denotes TL-3, Type I Impact Attenuator
[Symbol]	Denotes Type III Barricade (Incl. R5-1 "Do Not Enter" Sign)

Note: Legend items shown in grey denote previous phase work/placement.

NOTE:
 SEE SHEET 22 FOR RIGHT-OF-WAY LEGEND.



NOVA DISTRICT

10/26/2022

APPROVED FOR CONSTRUCTION

SCALE 0 50' 100'	VDOT PROJECT NO. 0495-029-419	SHEET NO. 1L161A3 AREA 4
---------------------	----------------------------------	--------------------------------

PROJECT MANAGER VDOT - Rupal Shah, PE, (703) 259-2362
 SURVEYED BY, DATE RDA - Nicholas Kaugaulis, LS, (703) 334-0837, 1/2019
 DESIGN BY RDA - Darrell Fischer, PE, (703) 334-0823
 SUBSURFACE UTILITY BY, DATE Accumark - Michael Taylor, LS, (703) 635-3060, 1/2/2021

COMMONWEALTH OF VIRGINIA
 PROFESSIONAL ENGINEER
 JOHN A. GIOMETTI
 Lic. No. 032300

Rinker Design Assoc., P.C.
 Fredericksburg, Virginia
 (MOT ENGINEER)

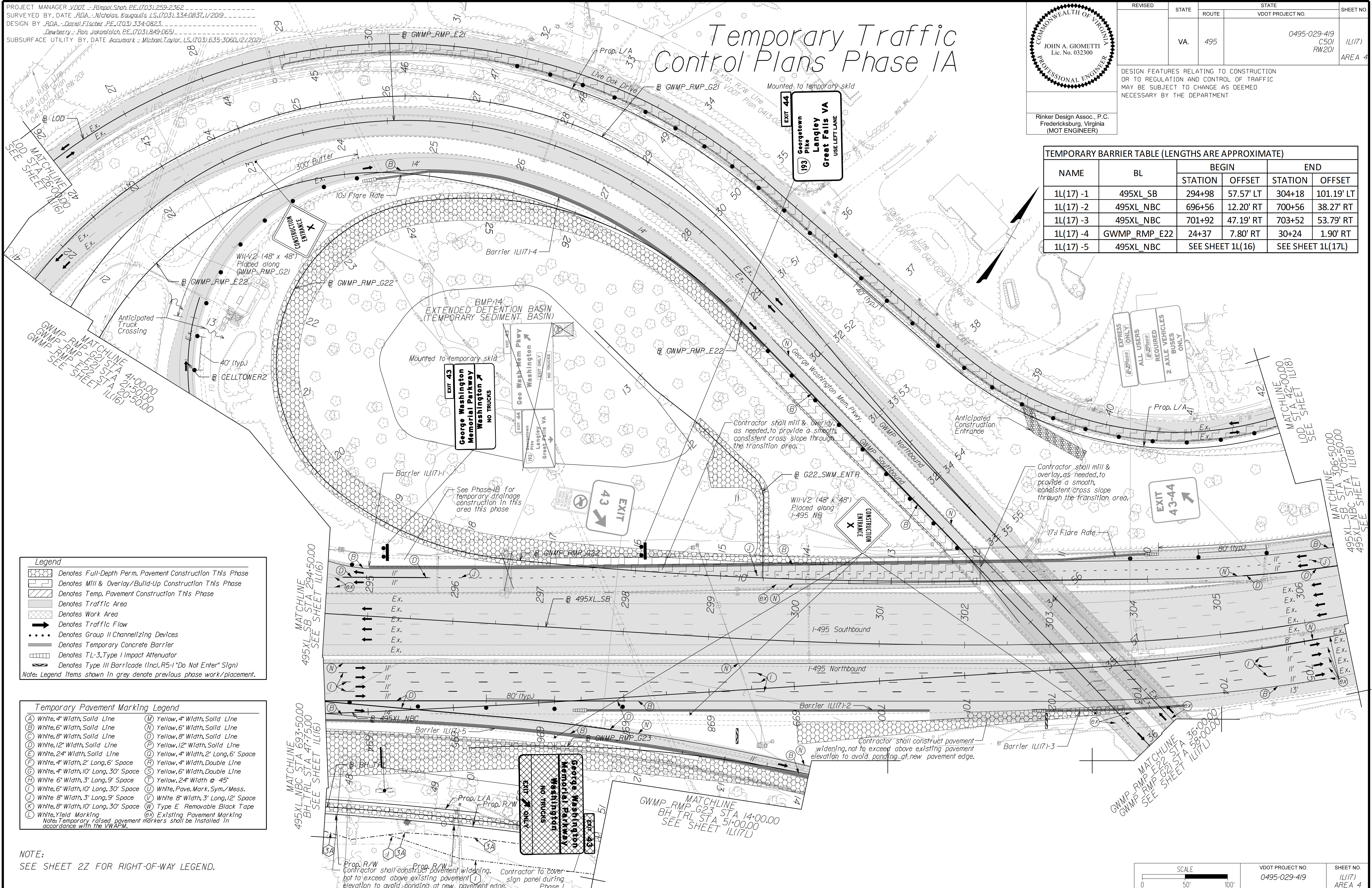
REVISION	STATE	ROUTE	STATE	VDOT PROJECT NO.	SHEET NO.
	VA	495		0495-029-419 C501 RW201	1L(17) AREA 4

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

Temporary Traffic Control Plans Phase 1A

TEMPORARY BARRIER TABLE (LENGTHS ARE APPROXIMATE)

NAME	BL	BEGIN		END	
		STATION	OFFSET	STATION	OFFSET
1L(17)-1	495XL_SB	294+98	57.57' LT	304+18	101.19' LT
1L(17)-2	495XL_NBC	696+56	12.20' RT	700+56	38.27' RT
1L(17)-3	495XL_NBC	701+92	47.19' RT	703+52	53.79' RT
1L(17)-4	GWMP_RMP_E22	24+37	7.80' RT	30+24	1.90' RT
1L(17)-5	495XL_NBC	SEE SHEET 1L(16)		SEE SHEET 1L(17L)	



Legend

- Denotes Full-Depth Perm. Pavement Construction This Phase
- Denotes Mill & Overlay/Build-Up Construction This Phase
- Denotes Temp. Pavement Construction This Phase
- Denotes Traffic Area
- Denotes Work Area
- Denotes Traffic Flow
- Denotes Group II Channelizing Devices
- Denotes Temporary Concrete Barrier
- Denotes TL-3, Type I Impact Attenuator
- Denotes Type III Barricade (Incl. R5-1 "Do Not Enter" Sign)

Note: Legend items shown in grey denote previous phase work/placement.

Temporary Pavement Marking Legend

(A) White, 4" Width, Solid Line	(M) Yellow, 4" Width, Solid Line
(B) White, 6" Width, Solid Line	(N) Yellow, 6" Width, Solid Line
(C) White, 8" Width, Solid Line	(O) Yellow, 8" Width, Solid Line
(D) White, 12" Width, Solid Line	(P) Yellow, 12" Width, Solid Line
(E) White, 24" Width, Solid Line	(Q) Yellow, 4" Width, 2' Long, 6" Space
(F) White, 4" Width, 2' Long, 6" Space	(R) Yellow, 4" Width, Double Line
(G) White, 4" Width, 10' Long, 30' Space	(S) Yellow, 6" Width, Double Line
(H) White, 6" Width, 3' Long, 9" Space	(T) Yellow, 24" Width @ 45'
(I) White, 6" Width, 10' Long, 30' Space	(U) White, Pav. Mark. Sym./Mess.
(J) White, 8" Width, 3' Long, 9" Space	(V) White, 8" Width, 3' Long, 12' Space
(K) White, 8" Width, 10' Long, 30' Space	(W) Type E Removable Black Tape
(L) White, Yield Marking	(X) Existing Pavement Marking

Note: Temporary, raised pavement markers shall be installed in accordance with the VMAP.

NOTE:
SEE SHEET 2Z FOR RIGHT-OF-WAY LEGEND.

APPROVED FOR CONSTRUCTION

SCALE 0 50' 100'

VDOT PROJECT NO. 0495-029-419 SHEET NO. 1L(17) AREA 4

PROJECT MANAGER_VDOT - Rupal Shah, PE, (703) 259-2362
 SURVEYED BY, DATE_RDA - Nicholas Kaugaulis, LS, (703) 334-0837, 1/2019
 DESIGN BY_RDA - Darrell Fischer, PE, (703) 334-0823
 SUBSURFACE UTILITY BY, DATE_Accurmark - Michael Taylor, LS, (703) 635-3060, 1/2/2021

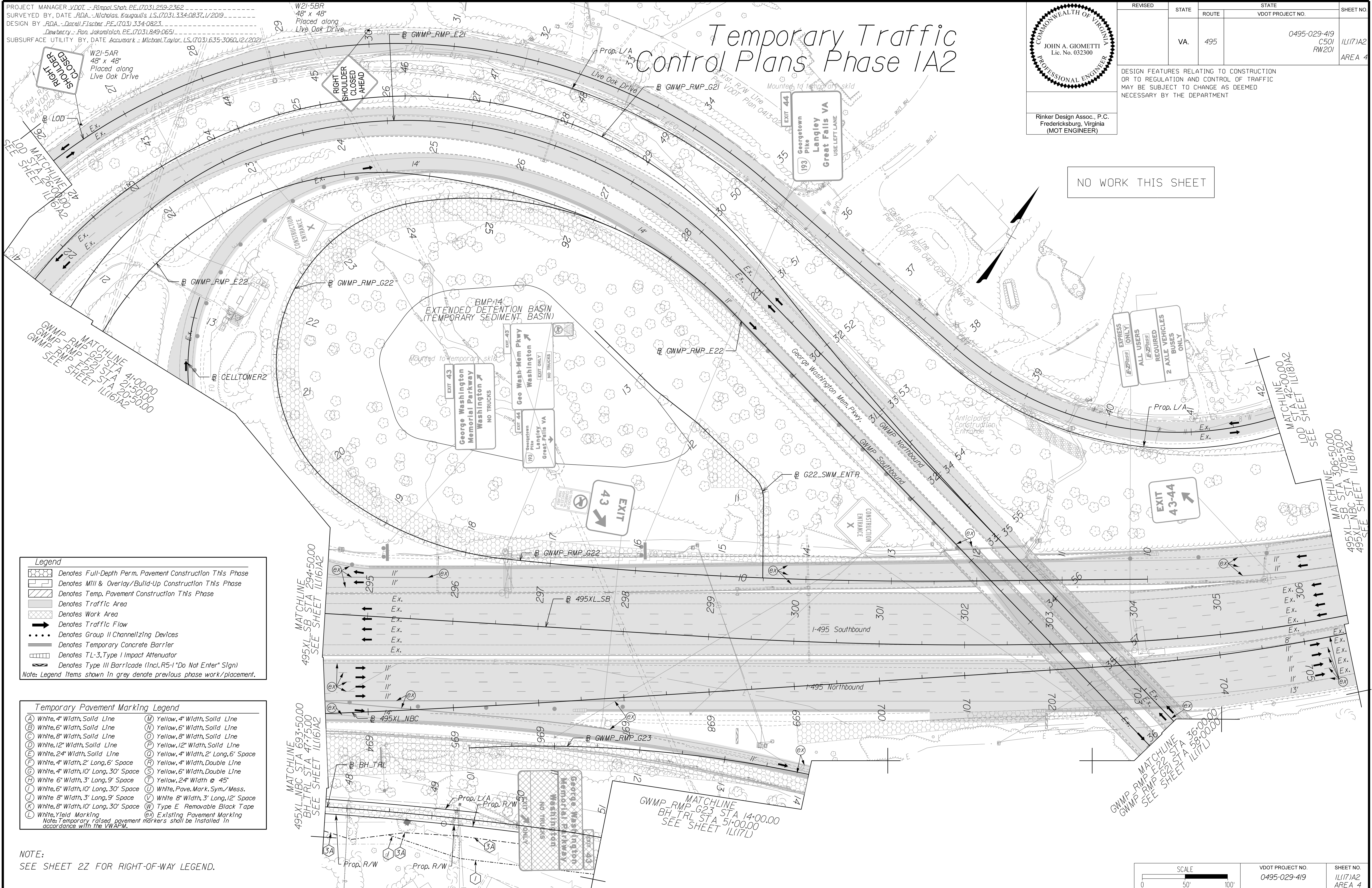
COMMONWEALTH OF VIRGINIA
 JOHN A. GIOMETTI
 Lic. No. 032300
 PROFESSIONAL ENGINEER

Rinker Design Assoc., P.C.
 Fredericksburg, Virginia
 (MOT ENGINEER)

REVISED	STATE	ROUTE	STATE	VDOT PROJECT NO.	SHEET NO.
	VA.	495		0495-029-419 C501 RW201	11(17)A2 AREA 4

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

Temporary Traffic Control Plans Phase 1A2



NO WORK THIS SHEET

Legend

- Denotes Full-Depth Perm. Pavement Construction This Phase
- Denotes Mill & Overlay/Build-Up Construction This Phase
- Denotes Temp. Pavement Construction This Phase
- Denotes Traffic Area
- Denotes Work Area
- Denotes Traffic Flow
- Denotes Group II Channelizing Devices
- Denotes Temporary Concrete Barrier
- Denotes TL-3, Type I Impact Attenuator
- Denotes Type III Barricade (Incl. R5-1 "Do Not Enter" Sign)

Note: Legend items shown in grey denote previous phase work/placement.

Temporary Pavement Marking Legend

(A) White, 4" Width, Solid Line	(M) Yellow, 4" Width, Solid Line
(B) White, 6" Width, Solid Line	(N) Yellow, 6" Width, Solid Line
(C) White, 8" Width, Solid Line	(O) Yellow, 8" Width, Solid Line
(D) White, 12" Width, Solid Line	(P) Yellow, 12" Width, Solid Line
(E) White, 24" Width, Solid Line	(Q) Yellow, 4" Width, 2' Long, 6" Space
(F) White, 4" Width, 2' Long, 6" Space	(R) Yellow, 4" Width, Double Line
(G) White, 4" Width, 10' Long, 30' Space	(S) Yellow, 6" Width, Double Line
(H) White, 6" Width, 3' Long, 9' Space	(T) Yellow, 24" Width @ 45'
(I) White, 6" Width, 10' Long, 30' Space	(U) White, Pav. Mark. Sym./Mess.
(J) White, 8" Width, 3' Long, 9' Space	(V) White, 8" Width, 3' Long, 12' Space
(K) White, 8" Width, 10' Long, 30' Space	(W) Type E Removable Black Tape
(L) White, Yield Marking	(X) Existing Pavement Marking

Note: Temporary, raised pavement markers shall be installed in accordance with the VMAP.

NOTE:
 SEE SHEET 22 FOR RIGHT-OF-WAY LEGEND.

SCALE 0 50' 100'

VDOT PROJECT NO. 0495-029-419 SHEET NO. 11(17)A2 AREA 4

APPROVED FOR CONSTRUCTION

NOVA DISTRICT

PROJECT MANAGER_VDOT - Rita Pal...
 SURVEYED BY_DATE_RDA - Nicholas...
 DESIGN BY_RDA - Darrell Fischer...
 SUBSURFACE UTILITY BY_DATE_Accumark - Michael Taylor...

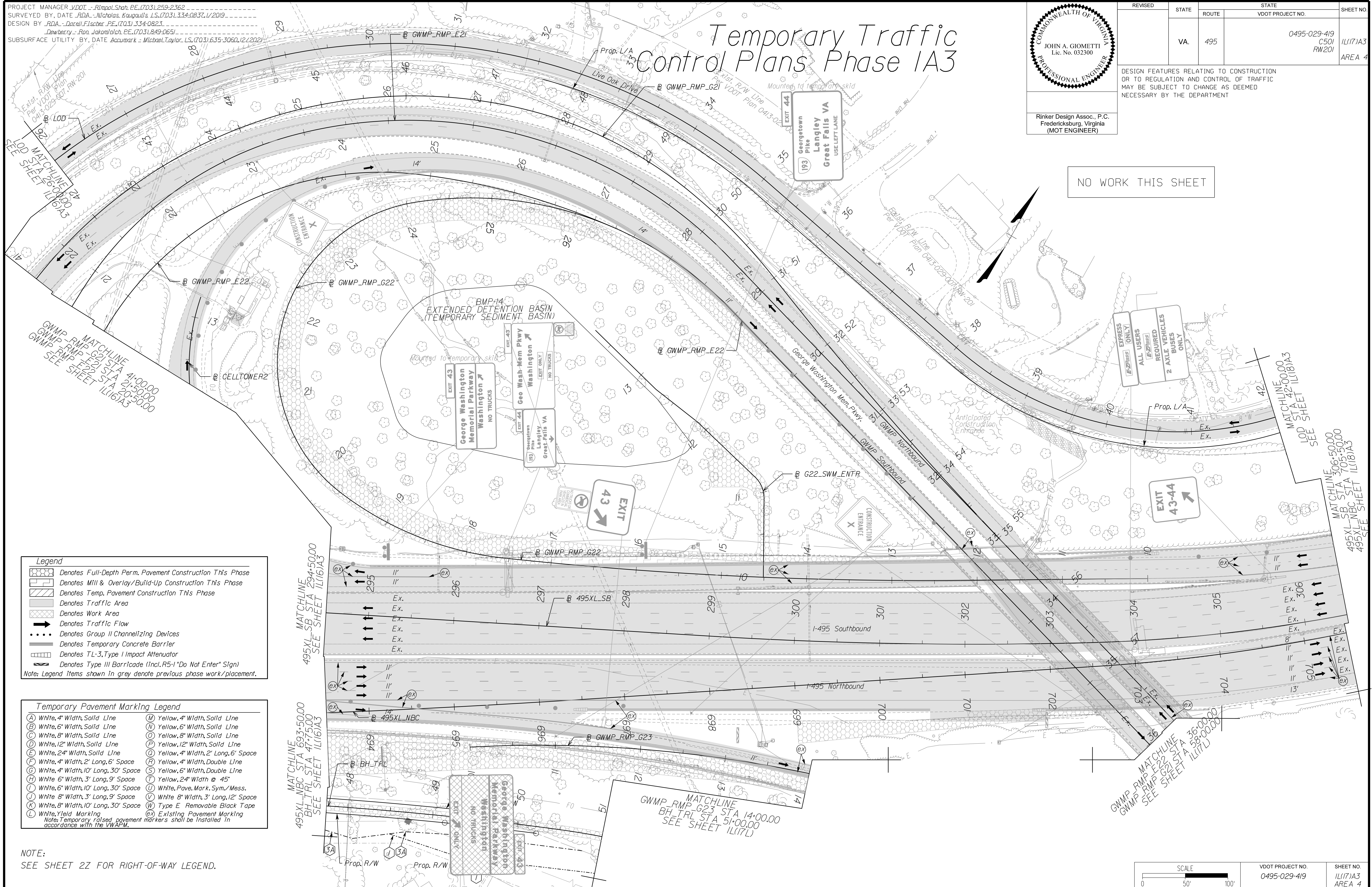
COMMONWEALTH OF VIRGINIA
 JOHN A. GIOMETTI
 Lic. No. 032300
 PROFESSIONAL ENGINEER

Rinker Design Assoc., P.C.
 Fredericksburg, Virginia
 (MOT ENGINEER)

REVISED	STATE	ROUTE	STATE	VDOT PROJECT NO.	SHEET NO.
	VA.	495		0495-029-419 C501 RW201	1L(17)A3 AREA 4

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

Temporary Traffic Control Plans Phase 1A3



NO WORK THIS SHEET

Legend

- Denotes Full-Depth Perm. Pavement Construction This Phase
- Denotes Mill & Overlay/Build-Up Construction This Phase
- Denotes Temp. Pavement Construction This Phase
- Denotes Traffic Area
- Denotes Work Area
- Denotes Traffic Flow
- Denotes Group II Channelizing Devices
- Denotes Temporary Concrete Barrier
- Denotes TL-3, Type I Impact Attenuator
- Denotes Type III Barricade (Incl. R5-1 "Do Not Enter" Sign)

Note: Legend items shown in grey denote previous phase work/placement.

Temporary Pavement Marking Legend

(A) White, 4" Width, Solid Line	(M) Yellow, 4" Width, Solid Line
(B) White, 6" Width, Solid Line	(N) Yellow, 6" Width, Solid Line
(C) White, 8" Width, Solid Line	(O) Yellow, 8" Width, Solid Line
(D) White, 12" Width, Solid Line	(P) Yellow, 12" Width, Solid Line
(E) White, 24" Width, Solid Line	(Q) Yellow, 4" Width, 2' Long, 6' Space
(F) White, 4" Width, 2' Long, 6' Space	(R) Yellow, 4" Width, Double Line
(G) White, 4" Width, 10' Long, 30' Space	(S) Yellow, 6" Width, Double Line
(H) White, 6" Width, 3' Long, 9' Space	(T) Yellow, 24" Width @ 45'
(I) White, 6" Width, 10' Long, 30' Space	(U) White, Pav. Mark. Sym./Mess.
(J) White, 8" Width, 3' Long, 9' Space	(V) White, 8" Width, 3' Long, 12' Space
(K) White, 8" Width, 10' Long, 30' Space	(W) Type E Removable Black Tape
(L) White, Yield Marking	(X) Existing Pavement Marking

Note: Temporary, raised pavement markers shall be installed in accordance with the VMAP.

NOTE:
 SEE SHEET 22 FOR RIGHT-OF-WAY LEGEND.

SCALE 0 50' 100'

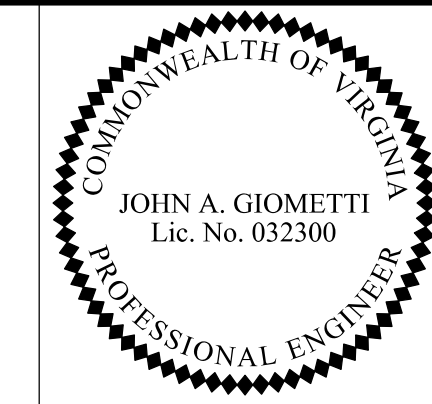
VDOT PROJECT NO. 0495-029-419 SHEET NO. 1L(17)A3 AREA 4

APPROVED FOR CONSTRUCTION

NOVA DISTRICT

PROJECT MANAGER_VDOT - Rita Stah, PE, (703) 259-2362
SURVEYED BY, DATE_RDA - Nicholas Kaugaulis, LS, (703) 334-0837, 1/2019
DESIGN BY_RDA - Darrell Fischer, PE, (703) 334-0823
SUBSURFACE UTILITY BY, DATE_Accurmark - Michael Taylor, LS, (703) 635-3060, 12/2020

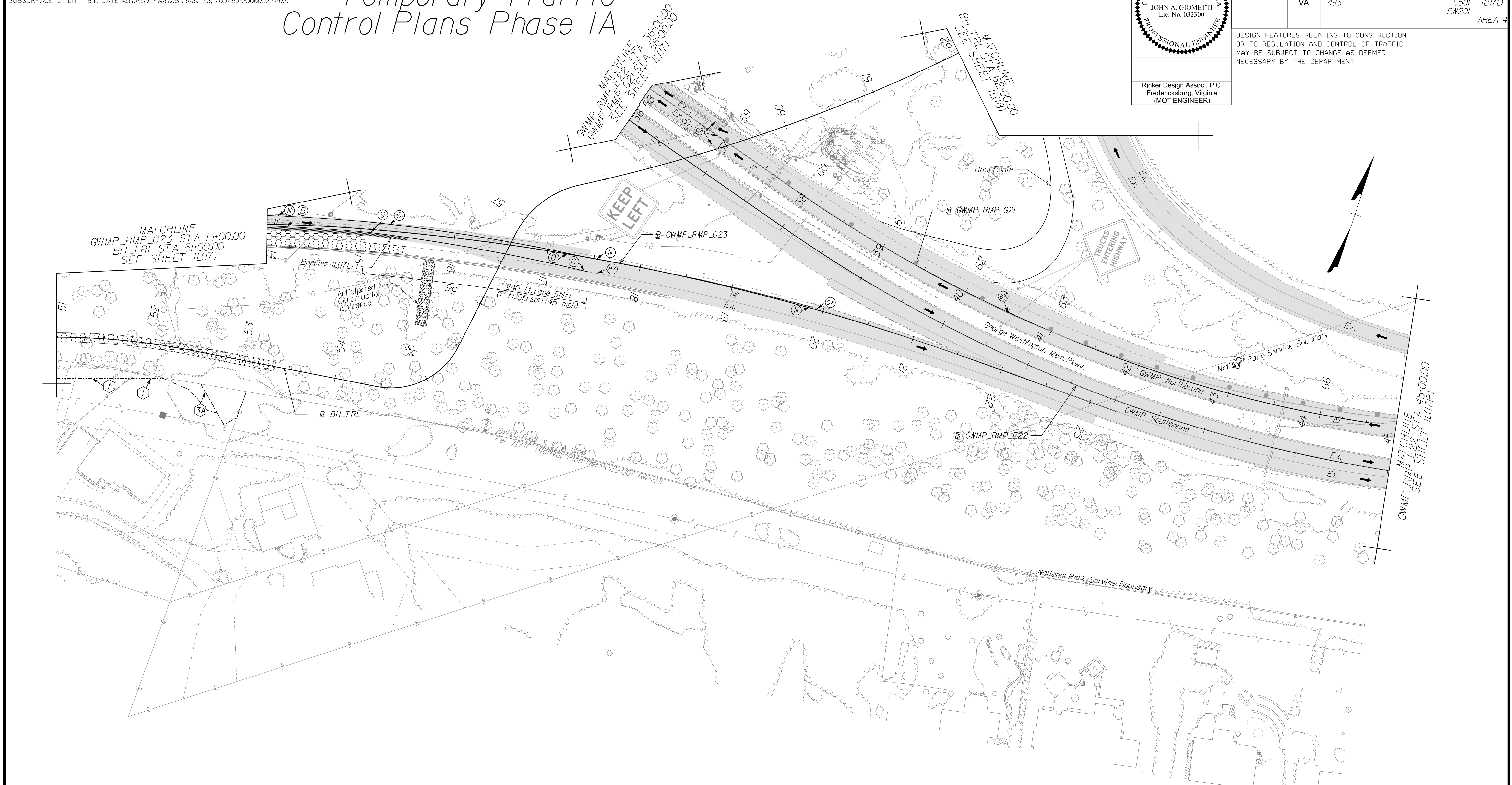
Temporary Traffic Control Plans Phase 1A



Rinker Design Assoc., P.C.
Fredericksburg, Virginia
(MOT ENGINEER)

REVISED	STATE	ROUTE	STATE	VDOT PROJECT NO.	SHEET NO.
	VA.	495		0495-029-419 C501 RW201	1L(17L) AREA 4

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



NOVA DISTRICT

Temporary Pavement Marking Legend

(A) White, 4" Width, Solid Line	(M) Yellow, 4" Width, Solid Line
(B) White, 6" Width, Solid Line	(N) Yellow, 6" Width, Solid Line
(C) White, 8" Width, Solid Line	(O) Yellow, 8" Width, Solid Line
(D) White, 12" Width, Solid Line	(P) Yellow, 12" Width, Solid Line
(E) White, 24" Width, Solid Line	(Q) Yellow, 4" Width, 2' Long, 6' Space
(F) White, 4" Width, 2' Long, 6' Space	(R) Yellow, 4" Width, Double Line
(G) White, 4" Width, 10' Long, 30' Space	(S) Yellow, 6" Width, Double Line
(H) White, 6" Width, 3' Long, 9' Space	(T) Yellow, 24" Width @ 45°
(I) White, 6" Width, 10' Long, 30' Space	(U) White, Pav. Mark. Sym./Mess.
(J) White, 8" Width, 3' Long, 9' Space	(V) White, 8" Width, 3' Long, 12' Space
(K) White, 8" Width, 10' Long, 30' Space	(W) Type E Removable Black Tape
(L) White, Yield Marking	(X) Existing Pavement Marking

Note: Temporary raised pavement markers shall be installed in accordance with the VWAPM.

TEMPORARY BARRIER TABLE (LENGTHS ARE APPROXIMATE)

NAME	BL	BEGIN		END	
		STATION	OFFSET	STATION	OFFSET
1L(17L) -1	GWMP_RMP_G23	SEE SHEET 1L(17)		15+50	7.05' RT

NOTE:
SEE SHEET 2Z FOR RIGHT-OF-WAY LEGEND.

Legend

- Denotes Full-Depth Perm. Pavement Construction This Phase
- Denotes Mill & Overlay/Build-Up Construction This Phase
- Denotes Temp. Pavement Construction This Phase
- Denotes Traffic Area
- Denotes Work Area
- Denotes Traffic Flow
- Denotes Group II Channelizing Devices
- Denotes Temporary Concrete Barrier
- Denotes TL-3, Type I Impact Attenuator
- Denotes Type III Barricade (Incl. R5-1 'Do Not Enter' Sign)

Note: Legend items shown in grey denote previous phase work/placement.

SCALE 0 50' 100'	VDOT PROJECT NO. 0495-029-419	SHEET NO. 1L(17L) AREA 4
---------------------	----------------------------------	--------------------------------

APPROVED FOR CONSTRUCTION

PROJECT MANAGER VDOT - Rupal Shah, PE, (703) 259-2362
SURVEYED BY, DATE RDA - Nicholas Kougoullis, LS, (703) 334-0837, 1/2019
DESIGN BY RDA - Darrell Fischer, PE, (703) 334-0823
SUBSURFACE UTILITY BY, DATE Accurmark - Michael Taylor, LS, (703) 635-3060, 12/2021

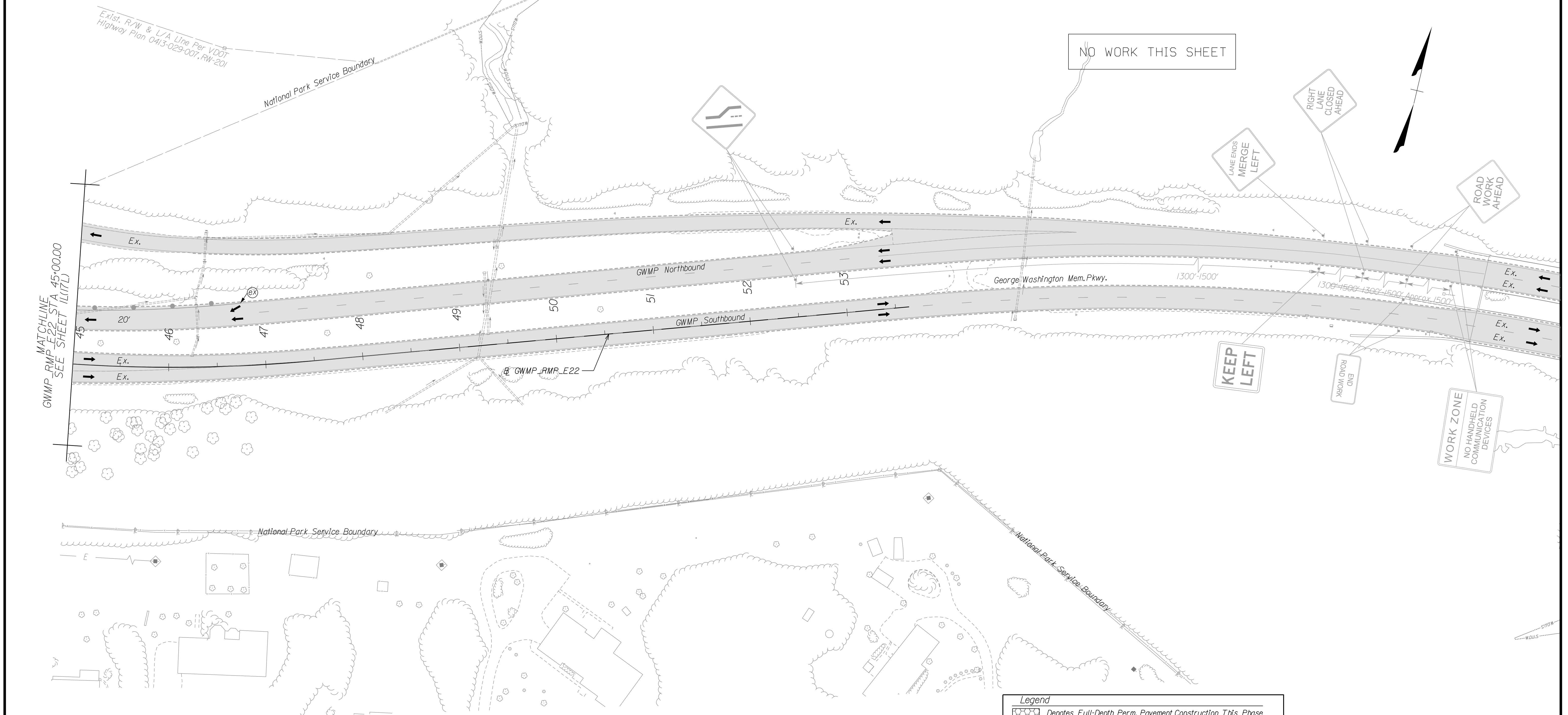
Temporary Traffic Control Plans Phase IA

COMMONWEALTH OF VIRGINIA
PROFESSIONAL ENGINEER
JOHN A. GIOMETTI
Lic. No. 032300

Rinker Design Assoc., P.C.
Fredericksburg, Virginia
(MOT ENGINEER)

REVISED	STATE	ROUTE	STATE	VDOT PROJECT NO.	SHEET NO.
	VA.	495		0495-029-419 C501 RW201	1L(17P) AREA 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

- Denotes Full-Depth Perm. Pavement Construction This Phase
- Denotes Mill & Overlay/Build-Up Construction This Phase
- Denotes Temp. Pavement Construction This Phase
- Denotes Traffic Area
- Denotes Work Area
- Denotes Traffic Flow
- Denotes Group II Channelizing Devices
- Denotes Temporary Concrete Barrier
- Denotes TL-3, Type I Impact Attenuator
- Denotes Type III Barricade (Incl. R5-1 "Do Not Enter" Sign)

Note: Legend Items shown in grey denote previous phase work/placement.

SCALE 0 50' 100'

VDOT PROJECT NO. 0495-029-419 SHEET NO. 1L(17P) AREA 4

APPROVED FOR CONSTRUCTION

NOVA DISTRICT

PROJECT MANAGER_VDOT - Rita Pal...
 SURVEYED BY_DATE_RDA - Nicholas...
 DESIGN BY_RDA - Darrell Fischer...
 SUBSURFACE UTILITY BY_DATE_Accurmark - Michael Taylor...

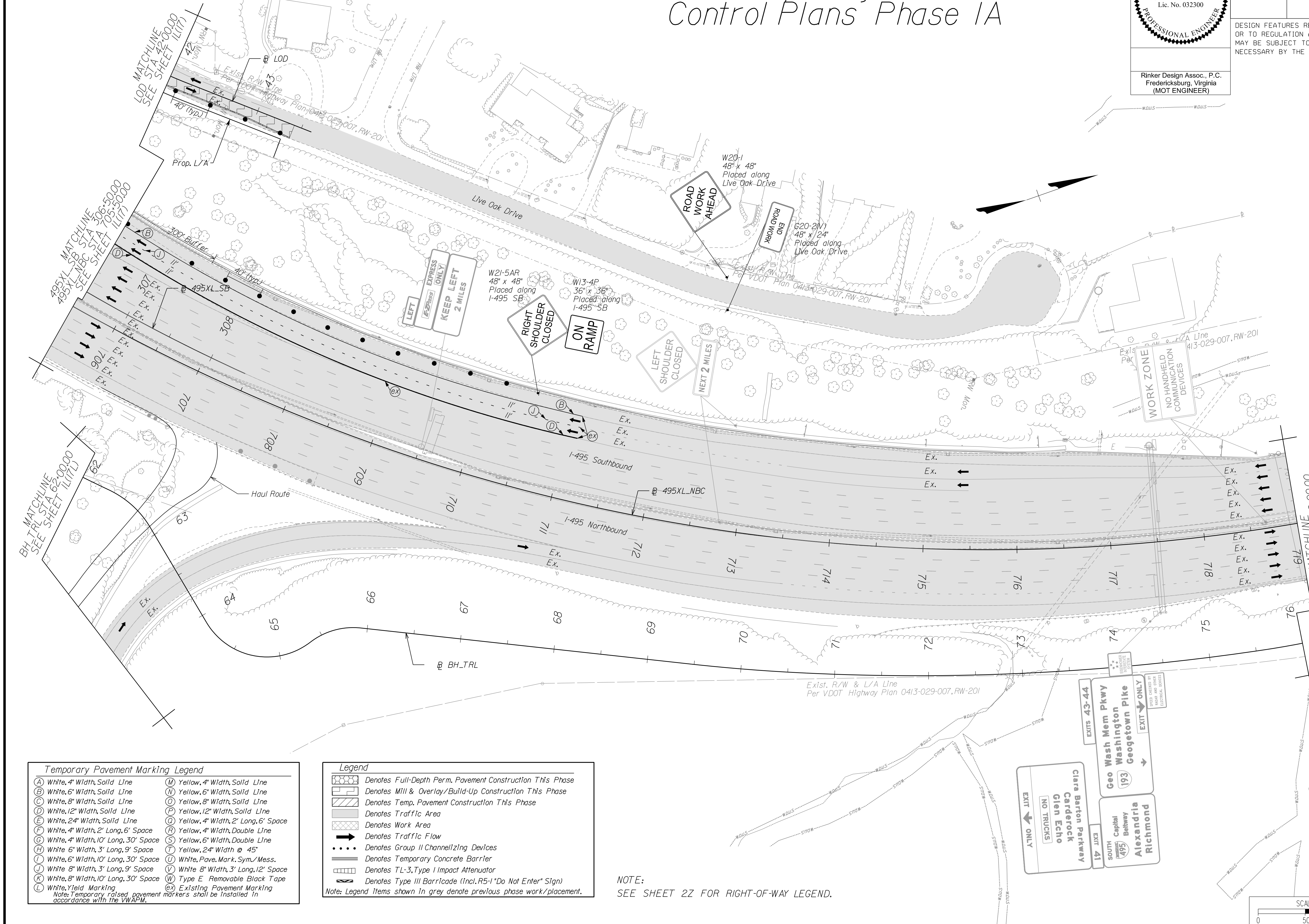
Temporary Traffic Control Plans Phase 1A

COMMONWEALTH OF VIRGINIA
 JOHN A. GIOMETTI
 Lic. No. 032300
 PROFESSIONAL ENGINEER

Rinker Design Assoc., P.C.
 Fredericksburg, Virginia
 (MOT ENGINEER)

REVISED	STATE	ROUTE	STATE	VDOT PROJECT NO.	SHEET NO.
	VA.	495		0495-029-419 C501 RW201	1L(18) AREA 4

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



Temporary Pavement Marking Legend

(A) White, 4" Width, Solid Line	(M) Yellow, 4" Width, Solid Line
(B) White, 6" Width, Solid Line	(N) Yellow, 6" Width, Solid Line
(C) White, 8" Width, Solid Line	(O) Yellow, 8" Width, Solid Line
(D) White, 12" Width, Solid Line	(P) Yellow, 12" Width, Solid Line
(E) White, 24" Width, Solid Line	(Q) Yellow, 4" Width, 2' Long, 6' Space
(F) White, 4" Width, 2' Long, 6' Space	(R) Yellow, 4" Width, Double Line
(G) White, 4" Width, 10' Long, 30' Space	(S) Yellow, 6" Width, Double Line
(H) White, 6" Width, 3' Long, 9' Space	(T) Yellow, 24" Width @ 45°
(I) White, 6" Width, 10' Long, 30' Space	(U) White, Pavement Mark. Sym./Mess.
(J) White, 8" Width, 3' Long, 9' Space	(V) White, 8" Width, 3' Long, 12' Space
(K) White, 8" Width, 10' Long, 30' Space	(W) Type E Removable Black Tape
(L) White, Yield Marking	(X) Existing Pavement Marking

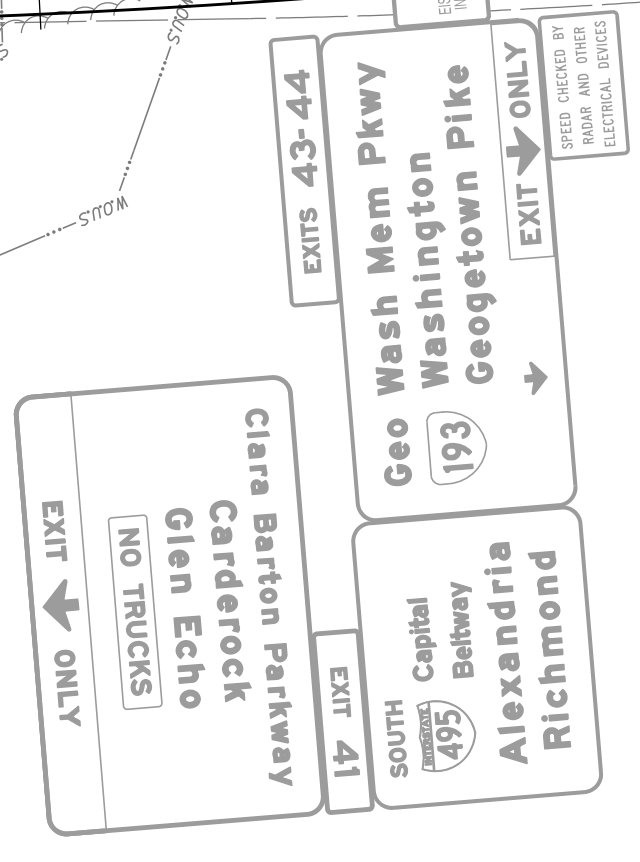
Note: Temporary raised pavement markers shall be installed in accordance with the VMAPM.

Legend

[Pattern]	Denotes Full-Depth Perm. Pavement Construction This Phase
[Pattern]	Denotes Mill & Overlay/Build-Up Construction This Phase
[Pattern]	Denotes Temp. Pavement Construction This Phase
[Pattern]	Denotes Traffic Area
[Pattern]	Denotes Work Area
[Arrow]	Denotes Traffic Flow
[Dotted]	Denotes Group II Channelizing Devices
[Line]	Denotes Temporary Concrete Barrier
[Symbol]	Denotes TL-3, Type I Impact Attenuator
[Symbol]	Denotes Type III Barricade (Incl. R5-1 "Do Not Enter" Sign)

Note: Legend items shown in grey denote previous phase work/placement.

NOTE:
 SEE SHEET 22 FOR RIGHT-OF-WAY LEGEND.



SCALE 0 50' 100'	VDOT PROJECT NO. 0495-029-419	SHEET NO. 1L(18) AREA 4
---------------------	----------------------------------	-------------------------------

APPROVED FOR CONSTRUCTION

NOVA DISTRICT

10/26/2022

PROJECT MANAGER_VDOT - Rita Pal...
SURVEYED BY, DATE_RDA - Nicholas...
DESIGN BY_RDA - Darrell Fischer...
SUBSURFACE UTILITY BY, DATE_Accurmark - Michael Taylor...

Temporary Traffic Control Plans Phase 1A2

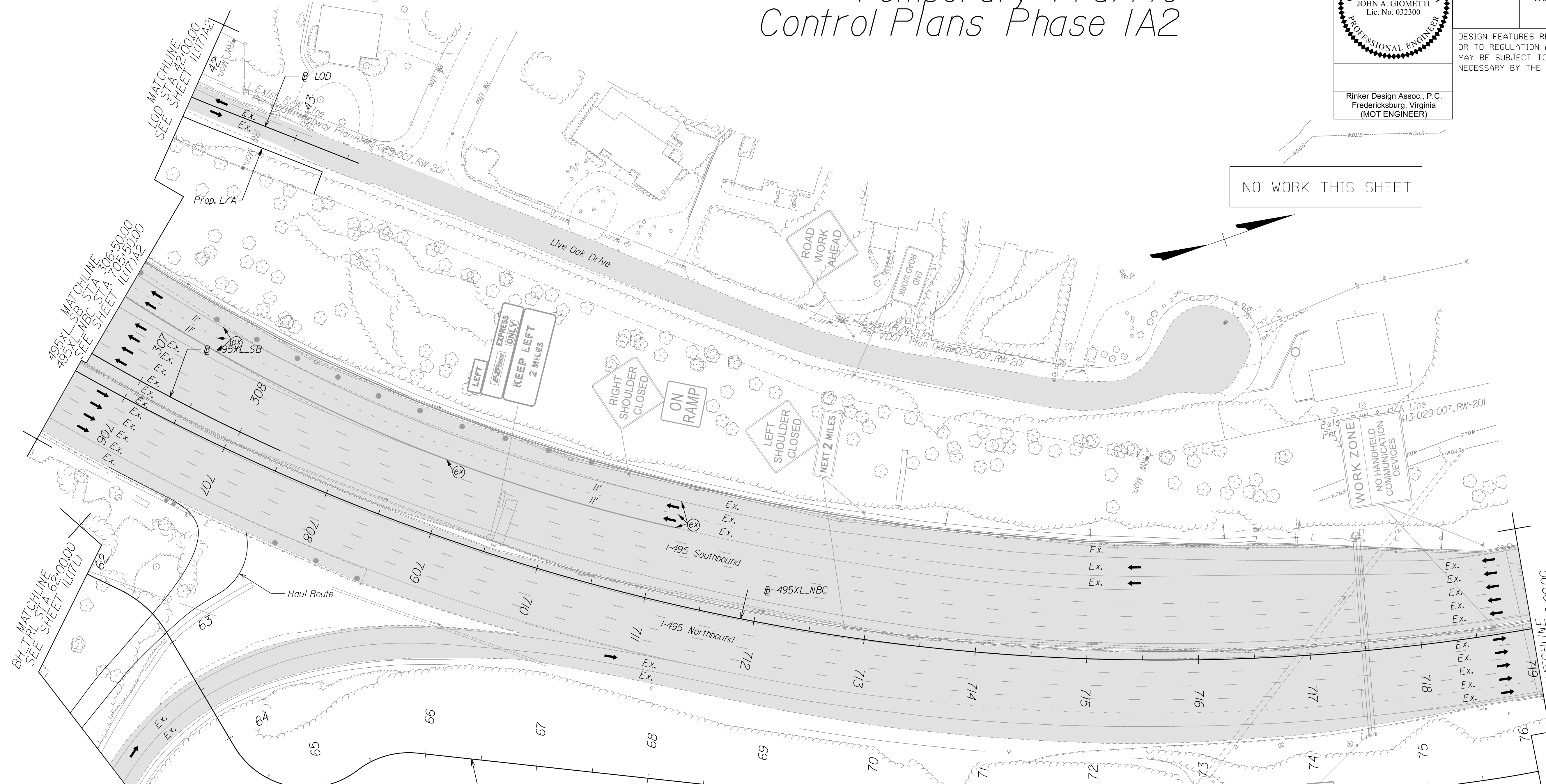
COMMONWEALTH OF VIRGINIA
JOHN A. GIOMETTI
 Lic. No. 032300
 PROFESSIONAL ENGINEER

Rinker Design Assoc., P.C.
 Fredericksburg, Virginia
 (MOT ENGINEER)

REVISED	STATE	ROUTE	STATE	VDOT PROJECT NO.	SHEET NO.
	VA.	495		0495-029-419 C501 RW201	1L181A2 AREA 4

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

NO WORK THIS SHEET



Temporary Pavement Marking Legend

(A) White, 4" Width, Solid Line	(M) Yellow, 4" Width, Solid Line
(B) White, 6" Width, Solid Line	(N) Yellow, 6" Width, Solid Line
(C) White, 8" Width, Solid Line	(O) Yellow, 8" Width, Solid Line
(D) White, 12" Width, Solid Line	(P) Yellow, 12" Width, Solid Line
(E) White, 24" Width, Solid Line	(Q) Yellow, 4" Width, 2' Long, 6' Space
(F) White, 4" Width, 2' Long, 6' Space	(R) Yellow, 4" Width, Double Line
(G) White, 4" Width, 10' Long, 30' Space	(S) Yellow, 6" Width, Double Line
(H) White, 6" Width, 3' Long, 9' Space	(T) Yellow, 24" Width @ 45°
(I) White, 6" Width, 10' Long, 30' Space	(U) White, Pavement Mark. Sym./Mess.
(J) White, 8" Width, 3' Long, 9' Space	(V) White, 8" Width, 3' Long, 12' Space
(K) White, 8" Width, 10' Long, 30' Space	(W) Type E Removable Black Tape
(L) White, Yield Marking	(X) Existing Pavement Marking

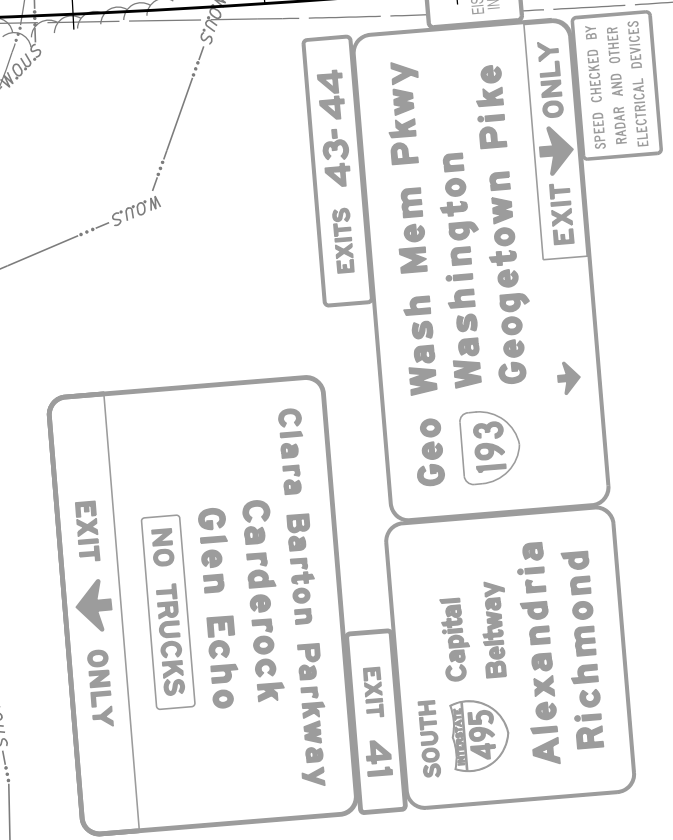
Note: Temporary raised pavement markers shall be installed in accordance with the VMAP.

Legend

[Pattern]	Denotes Full-Depth Perm. Pavement Construction This Phase
[Pattern]	Denotes Mill & Overlay/Build-Up Construction This Phase
[Pattern]	Denotes Temp. Pavement Construction This Phase
[Pattern]	Denotes Traffic Area
[Pattern]	Denotes Work Area
[Arrow]	Denotes Traffic Flow
[Dotted]	Denotes Group II Channelizing Devices
[Line]	Denotes Temporary Concrete Barrier
[Symbol]	Denotes TL-3, Type I Impact Attenuator
[Symbol]	Denotes Type III Barricade (Incl. R5-1 "Do Not Enter" Sign)

Note: Legend items shown in grey denote previous phase work/placement.

NOTE: SEE SHEET 22 FOR RIGHT-OF-WAY LEGEND.



SCALE 0 50' 100'

VDOT PROJECT NO. 0495-029-419	SHEET NO. 1L181A2 AREA 4
----------------------------------	--------------------------------

APPROVED FOR CONSTRUCTION

NOVA DISTRICT

PROJECT MANAGER_VDOT - Rita Pal...
SURVEYED BY, DATE_RDA - Nicholas...
DESIGN BY_RDA - Darrell Fischer...
SUBSURFACE UTILITY BY, DATE_Accurmark - Michael Taylor...

Temporary Traffic Control Plans Phase 1A3

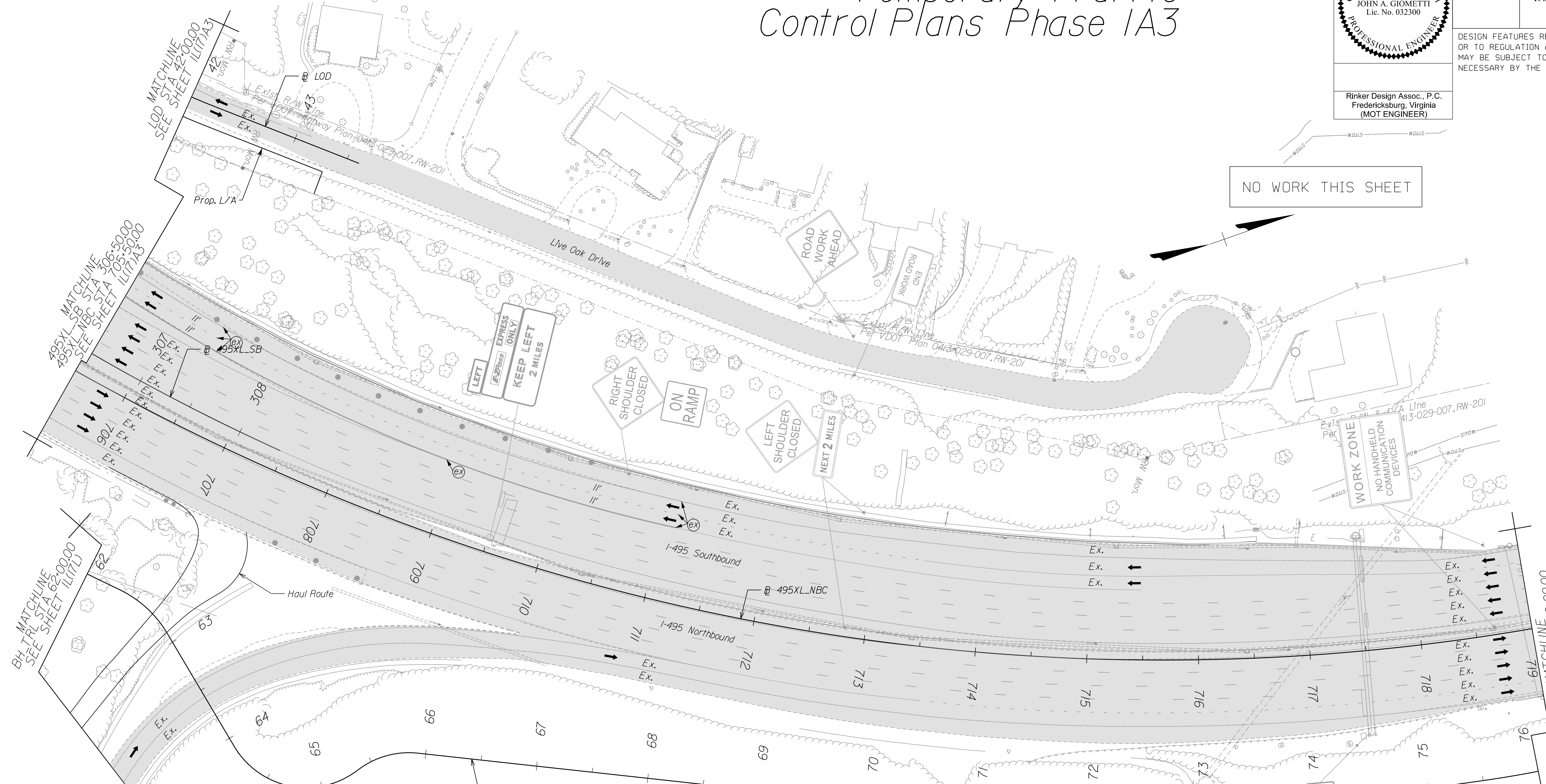
COMMONWEALTH OF VIRGINIA
JOHN A. GIOMETTI
 Lic. No. 032300
 PROFESSIONAL ENGINEER

Rinker Design Assoc., P.C.
 Fredericksburg, Virginia
 (MOT ENGINEER)

REVISED	STATE	ROUTE	STATE	VDOT PROJECT NO.	SHEET NO.
	VA.	495		0495-029-419 C501 RW201	1L181A3 AREA 4

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

NO WORK THIS SHEET



Temporary Pavement Marking Legend

(A) White, 4" Width, Solid Line	(M) Yellow, 4" Width, Solid Line
(B) White, 6" Width, Solid Line	(N) Yellow, 6" Width, Solid Line
(C) White, 8" Width, Solid Line	(O) Yellow, 8" Width, Solid Line
(D) White, 12" Width, Solid Line	(P) Yellow, 12" Width, Solid Line
(E) White, 24" Width, Solid Line	(Q) Yellow, 4" Width, 2' Long, 6' Space
(F) White, 4" Width, 2' Long, 6' Space	(R) Yellow, 4" Width, Double Line
(G) White, 4" Width, 10' Long, 30' Space	(S) Yellow, 6" Width, Double Line
(H) White, 6" Width, 3' Long, 9' Space	(T) Yellow, 24" Width @ 45°
(I) White, 6" Width, 10' Long, 30' Space	(U) White, Pavement Mark. Sym./Mess.
(J) White, 8" Width, 3' Long, 9' Space	(V) White, 8" Width, 3' Long, 12' Space
(K) White, 8" Width, 10' Long, 30' Space	(W) Type E Removable Black Tape
(L) White, Yield Marking	(X) Existing Pavement Marking

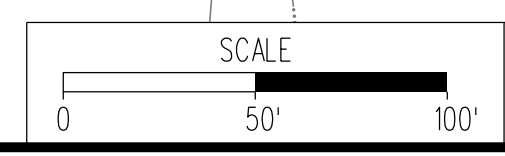
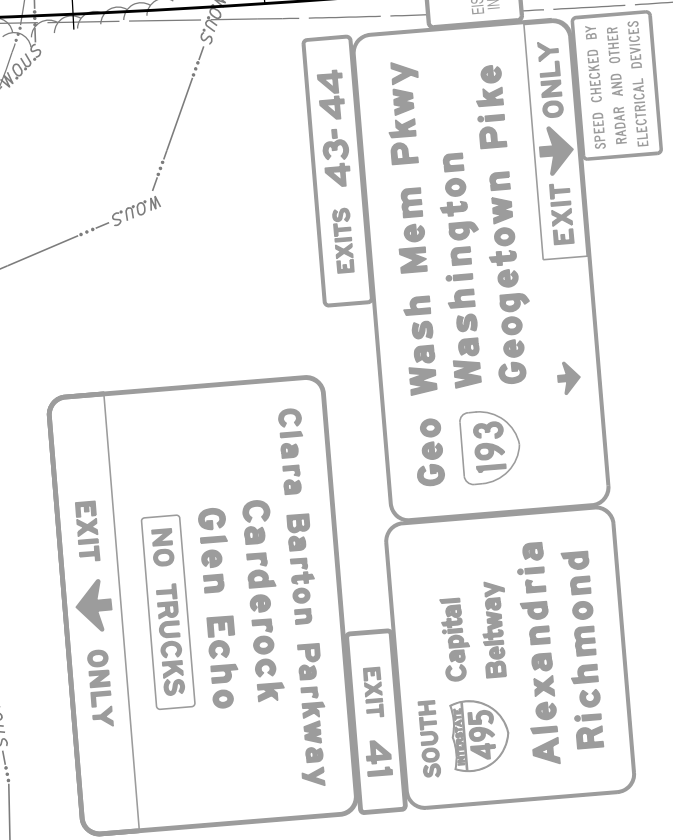
Note: Temporary raised pavement markers shall be installed in accordance with the VMAP.

Legend

[Pattern]	Denotes Full-Depth Perm. Pavement Construction This Phase
[Pattern]	Denotes Mill & Overlay/Build-Up Construction This Phase
[Pattern]	Denotes Temp. Pavement Construction This Phase
[Pattern]	Denotes Traffic Area
[Pattern]	Denotes Work Area
[Arrow]	Denotes Traffic Flow
[Dotted]	Denotes Group II Channelizing Devices
[Line]	Denotes Temporary Concrete Barrier
[Symbol]	Denotes TL-3, Type I Impact Attenuator
[Symbol]	Denotes Type III Barricade (Incl. R5-1 "Do Not Enter" Sign)

Note: Legend items shown in grey denote previous phase work/placement.

NOTE:
SEE SHEET 22 FOR RIGHT-OF-WAY LEGEND.



VDOT PROJECT NO. 0495-029-419	SHEET NO. 1L181A3 AREA 4
----------------------------------	--------------------------------

APPROVED FOR CONSTRUCTION

NOVA DISTRICT

PROJECT MANAGER VDOT - Rupal Shah, PE (703) 259-2362
SURVEYED BY, DATE RDA - Nicholas Kougaull's, LS (703) 334-0837, 1/2019
DESIGN BY RDA - Darrell Fischer, PE (703) 334-0823
Dewberry - Ron Jakomlitch, PE (703) 849-0651
SUBSURFACE UTILITY BY, DATE Accupark - Michael Taylor, LS (703) 635-3060, 12/2021

Temporary Traffic Control Plans Phase IA



Rinker Design Assoc., P.C.
Fredericksburg, Virginia
(MOT ENGINEER)

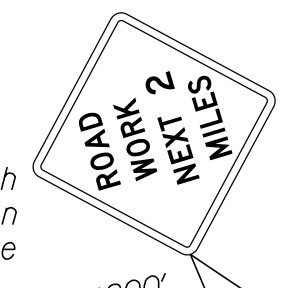
REVISED	STATE	ROUTE	STATE	VDOT PROJECT NO.	SHEET NO.
	VA.	495		0495-029-419 C501 RW201	1L19) AREA 4

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

W21-5BL
48" x 48"
Placed along I-495 SB north of American Legion Bridge

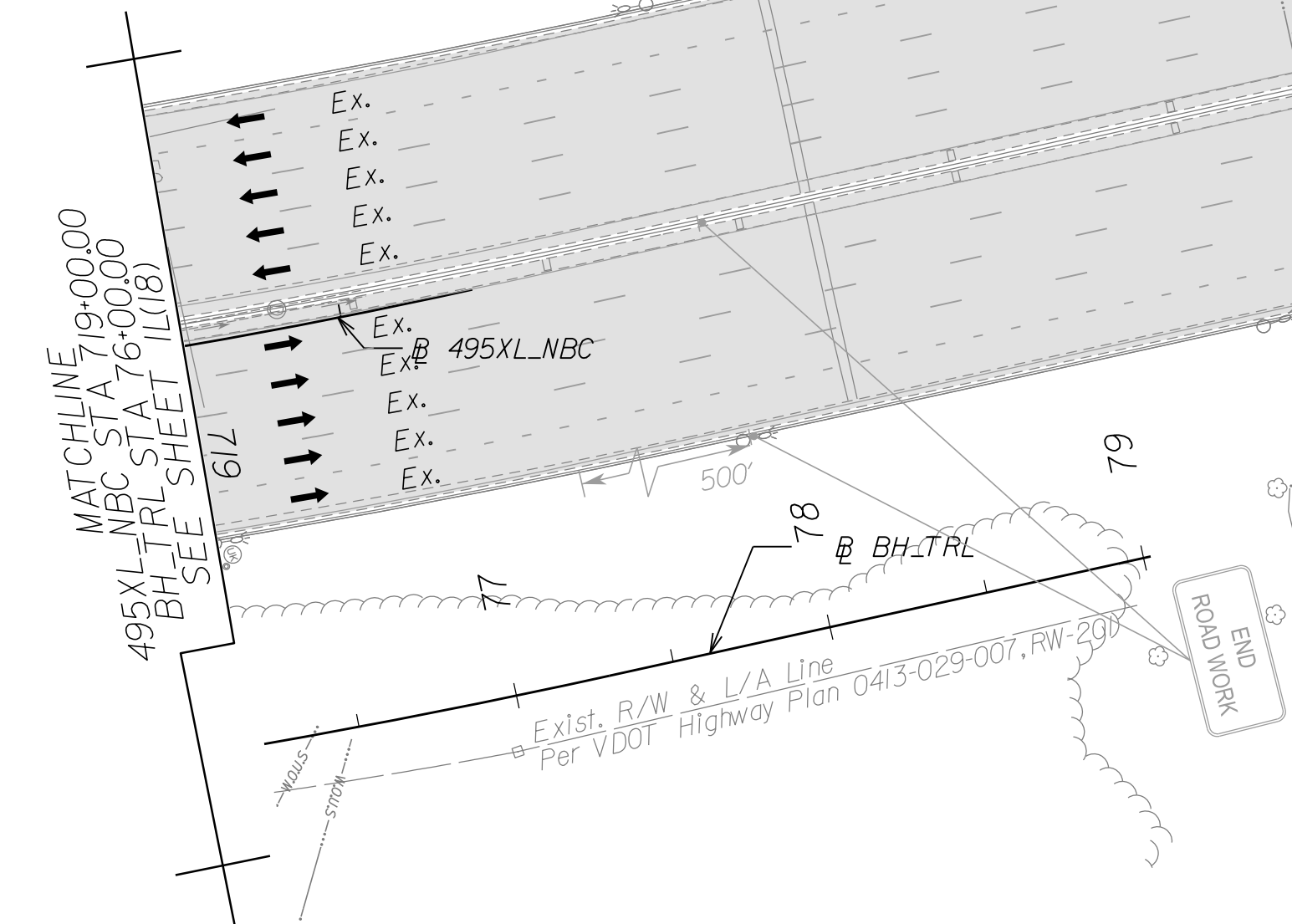
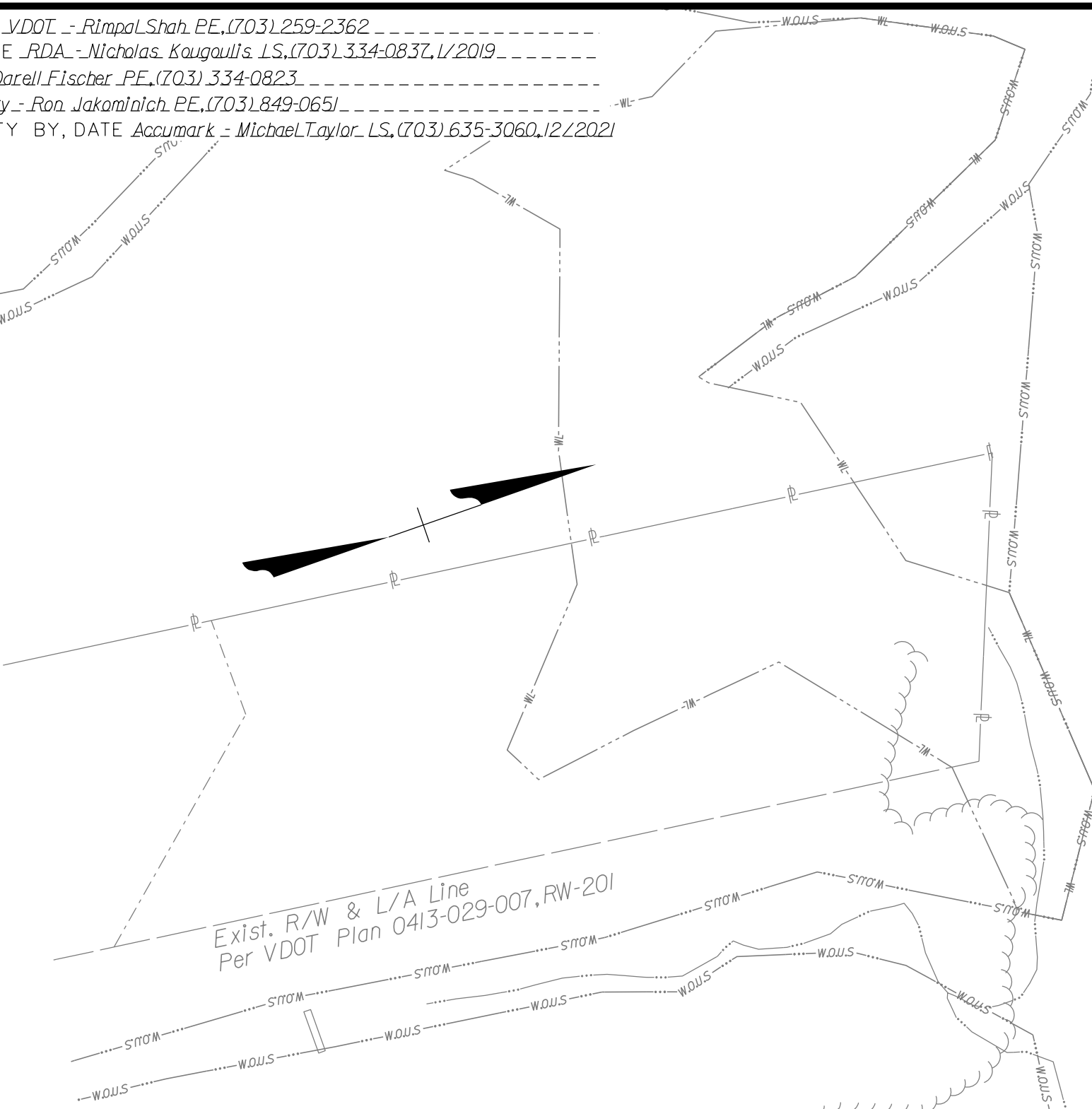


W21-V2
48" x 48"
Placed along I-495 SB south of Clara Barton overpass bridge



approx. 1200'

Ex. ←
Ex. ←
Ex. ←
Ex. ←
Ex. →
Ex. →
Ex. →
Ex. →



Legend

- Denotes Full-Depth Perm. Pavement Construction This Phase
- Denotes Mill & Overlay/Build-Up Construction This Phase
- Denotes Temp. Pavement Construction This Phase
- Denotes Traffic Area
- Denotes Work Area
- Denotes Traffic Flow
- Denotes Group II Channelizing Devices
- Denotes Temporary Concrete Barrier
- Denotes TL-3, Type I Impact Attenuator
- Denotes Type III Barricade (Incl. R5-1 "Do Not Enter" Sign)

Note: Legend Items shown in grey denote previous phase work/placement.

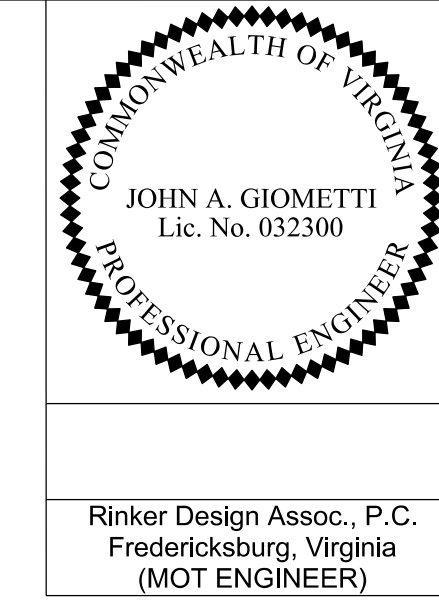
SCALE 0 50' 100'

VDOT PROJECT NO. 0495-029-419 SHEET NO. 1L19) AREA 4

APPROVED FOR CONSTRUCTION

NOVA DISTRICT

PROJECT MANAGER_VDOT - Rupal Shah, P.E. (703) 259-2362
SURVEYED BY, DATE_RDA - Nicholas Kougoullis, L.S. (703) 334-0837, 1/2019
DESIGN BY_RDA - Darrell Fischer, P.E. (703) 334-0823
SUBSURFACE UTILITY BY, DATE_Accumark - Michael Taylor, L.S. (703) 635-3060, 12/2021

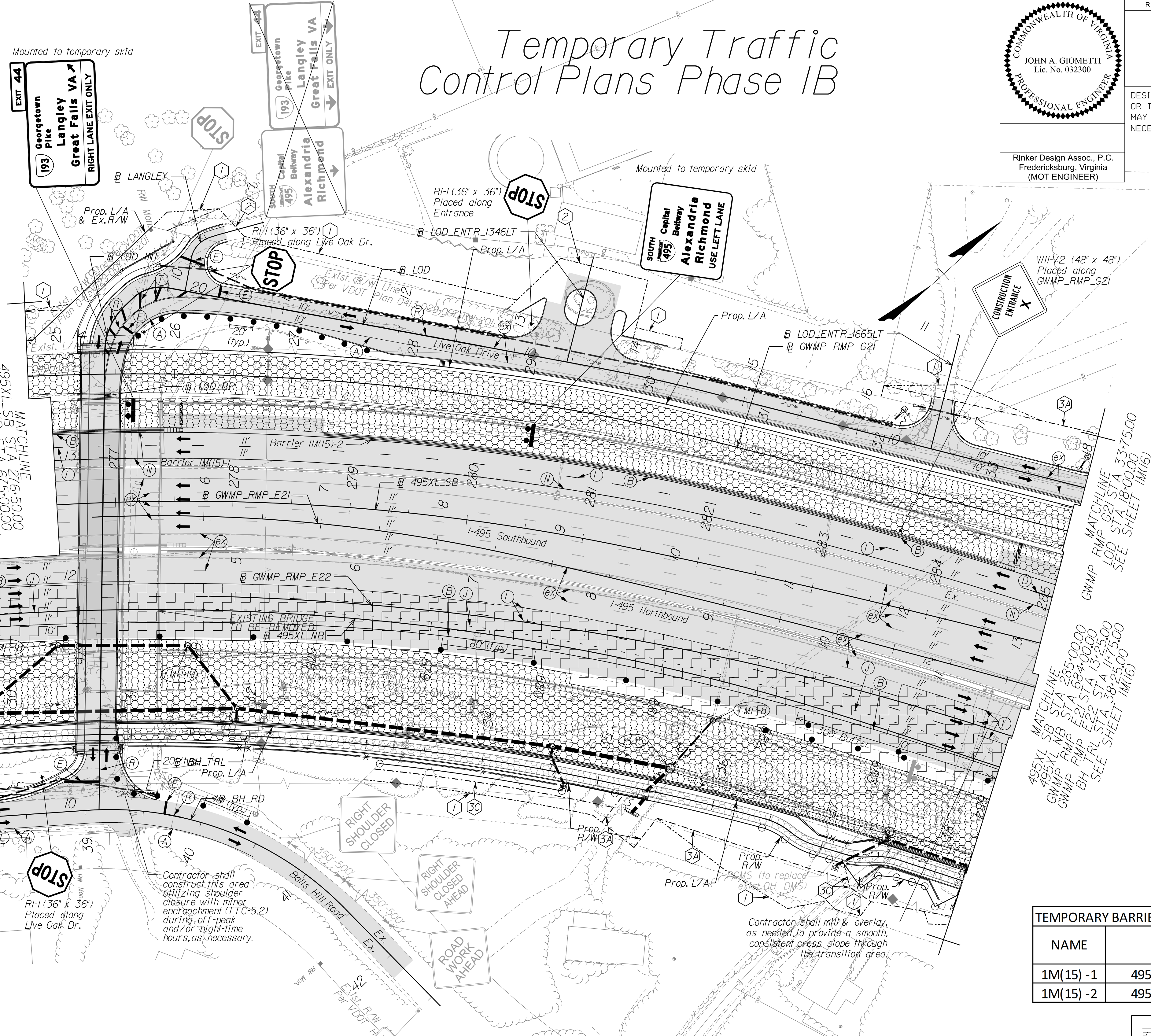


Rinker Design Assoc., P.C.
Fredericksburg, Virginia
(MOT ENGINEER)

REVISION	STATE	ROUTE	STATE	VDOT PROJECT NO.	SHEET NO.
	VA.	495		0495-029-419 C501 RW201	IM(15) AREA 4

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

Temporary Traffic Control Plans Phase 1B



495XL-SB STA 276+50.00
495XL-NB STA 675+00.00
GTP_RMP_G21 STA 247+50.00
BEGIN AREA 3
SEE FOR CONTINUITY

MATCHLINE
BH RD STA 38+00.00
BH TRL STA 29+50.00
BEGIN AREA 4
SEE FOR CONTINUITY

MATCHLINE
LOD STA 18+00.00
GWPMP_RMP_G21 STA 33+75.00
SEE SHEET IM(16)

MATCHLINE
495XL-SB STA 285+00.00
495XL-NB STA 684+00.00
GWPMP_RMP_E22 STA 13+25.00
BH TRL STA 38+25.00
SEE SHEET IM(16)

NAME	BL	BEGIN		END	
		STATION	OFFSET	STATION	OFFSET
1M(15)-1	495XL_SB	SEE AREA 3		277+42	60.72' LT
1M(15)-2	495XL_SB	278+74	60.38' LT	284+48	56.40' LT

(A) White, 4" Width, Solid Line	(M) Yellow, 4" Width, Solid Line
(B) White, 6" Width, Solid Line	(N) Yellow, 6" Width, Solid Line
(C) White, 8" Width, Solid Line	(O) Yellow, 8" Width, Solid Line
(D) White, 12" Width, Solid Line	(P) Yellow, 12" Width, Solid Line
(E) White, 24" Width, Solid Line	(Q) Yellow, 4" Width, 2' Long, 6' Space
(F) White, 4" Width, 2' Long, 6' Space	(R) Yellow, 4" Width, Double Line
(G) White, 4" Width, 10' Long, 30' Space	(S) Yellow, 6" Width, Double Line
(H) White, 6" Width, 3' Long, 9' Space	(T) Yellow, 24" Width @ 45'
(I) White, 6" Width, 10' Long, 30' Space	(U) White, Pavement Marking, Sym./Mess.
(J) White, 8" Width, 3' Long, 9' Space	(V) White, 8" Width, 3' Long, 12' Space
(K) White, 8" Width, 10' Long, 30' Space	(W) Type E Removable Black Tape
(L) White, Yield Marking	(X) Existing Pavement Marking

Note: Temporary raised pavement markers shall be installed in accordance with the VWAPM.

TMP-8 6.5 Lin.Ft. S'd.MH-1 or 2 Req'd. 15-06 to TMP-18 86' - 30" Storm Sewer Pipe Req'd. (18' Cover) Silt-Tight Joint Type Req'd. Prop. Top: 246.44 Inv: 246.00
TMP-8 to 15-15 49' - 18" Storm Sewer Pipe Req'd. (4' Cover) Silt-Tight Joint Type Req'd. Inv: 239.24 In/Out: 238.20

TMP-18 9.9 Lin.Ft. S'd.MH-1 or 2 Req'd. 15-06 to TMP-18 86' - 30" Storm Sewer Pipe Req'd. (18' Cover) Silt-Tight Joint Type Req'd. Prop. Top: 256.55 Inv: 246.00
TMP-18 9.9 Lin.Ft. S'd.MH-1 or 2 Req'd. 15-06 to TMP-18 86' - 30" Storm Sewer Pipe Req'd. (18' Cover) Silt-Tight Joint Type Req'd. Prop. Top: 256.55 Inv: 246.00

TMP-19 14.1 Lin.Ft. S'd.MH-1 or 2 Req'd. 15-06 to TMP-19 106' - 30" Storm Sewer Pipe Req'd. (12' Cover) Silt-Tight Joint Type Req'd. Prop. Top: 259.17 Inv: 244.40
TMP-19 to 15-08 66' - 30" Storm Sewer Pipe Req'd. (12' Cover) Silt-Tight Joint Type Req'd. Prop. Top: 244.40 Inv: 243.70

NOTE: SEE SHEET 2Z FOR RIGHT-OF-WAY LEGEND.

- Legend
- Denotes Full-Depth Perm. Pavement Construction This Phase
 - Denotes Mill & Overlay/Build-Up Construction This Phase
 - Denotes Temp. Pavement Construction This Phase
 - Denotes Traffic Area
 - Denotes Work Area
 - Denotes Traffic Flow
 - Denotes Group II Channelizing Devices
 - Denotes Temporary Concrete Barrier
 - Denotes TL-3, Type I Impact Attenuator
 - Denotes Type III Barricade (Incl. R5-1 "Do Not Enter" Sign)
- Note: Legend items shown in grey denote previous phase work/placement.

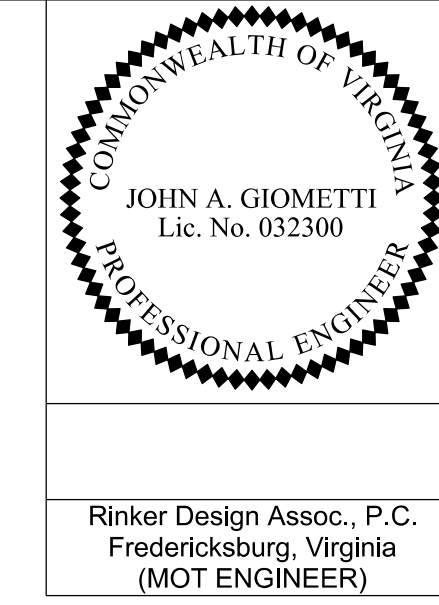
SCALE 0 50' 100'	VDOT PROJECT NO. 0495-029-419	SHEET NO. IM(15) AREA 4
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APPROVED FOR CONSTRUCTION

NOVA DISTRICT

10/27/2022

PROJECT MANAGER VDOT - Rupal Shah, PE, (703) 259-2362
 SURVEYED BY, DATE RDA - Nicholas Kaugaulis, LS, (703) 334-0837, 1/2019
 DESIGN BY RDA - Darrell Fischer, PE, (703) 334-0823
 Dewberry - Ron Jakomilich, PE, (703) 849-0651
 SUBSURFACE UTILITY BY, DATE Accurmark - Michael Taylor, LS, (703) 635-3060, 12/2021



Rinker Design Assoc., P.C.
 Fredericksburg, Virginia
 (MOT ENGINEER)

REVISED	STATE	ROUTE	STATE	VDOT PROJECT NO.	SHEET NO.
	VA	495		0495-029-419 C501 RW201	1M(16) AREA 4

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

NAME	BL	BEGIN		END	
		STATION	OFFSET	STATION	OFFSET
1M(16)-1	495XL_SB	286+45	34.79' LT	SEE SHEET 1M(17)	
1M(16)-2	GWMP_RMP_E21	14+64	74.04' LT	17+64	88.31' LT
1M(16)-3	GWMP_RMP_G21	34+59	50.34' LT	SEE SHEET 1M(17)	
1M(16)-4	495XL_NB	685+37	14.57' RT	686+37	13.50' RT
1M(16)-5	495XL_NBC	692+78	5.49' RT	SEE SHEET 1M(17)	

Temporary Traffic Control Plans Phase 1B

Temporary Pavement Marking Legend

(A) White, 4" Width, Solid Line	(M) Yellow, 4" Width, Solid Line
(B) White, 6" Width, Solid Line	(N) Yellow, 6" Width, Solid Line
(C) White, 8" Width, Solid Line	(O) Yellow, 8" Width, Solid Line
(D) White, 12" Width, Solid Line	(P) Yellow, 12" Width, Solid Line
(E) White, 24" Width, Solid Line	(Q) Yellow, 4" Width, 2' Long, 6' Space
(F) White, 4" Width, 2' Long, 6' Space	(R) Yellow, 4" Width, Double Line
(G) White, 4" Width, 10' Long, 30' Space	(S) Yellow, 6" Width, Double Line
(H) White, 6" Width, 3' Long, 9' Space	(T) Yellow, 24" Width @ 45°
(I) White, 6" Width, 10' Long, 30' Space	(U) White, Pav. Mark. Sym./Mess.
(J) White, 8" Width, 3' Long, 9' Space	(V) White, 8" Width, 3' Long, 12' Space
(K) White, 8" Width, 10' Long, 30' Space	(W) Type E Removable Black Tape
(L) White, Yield Marking	(X) Existing Pavement Marking

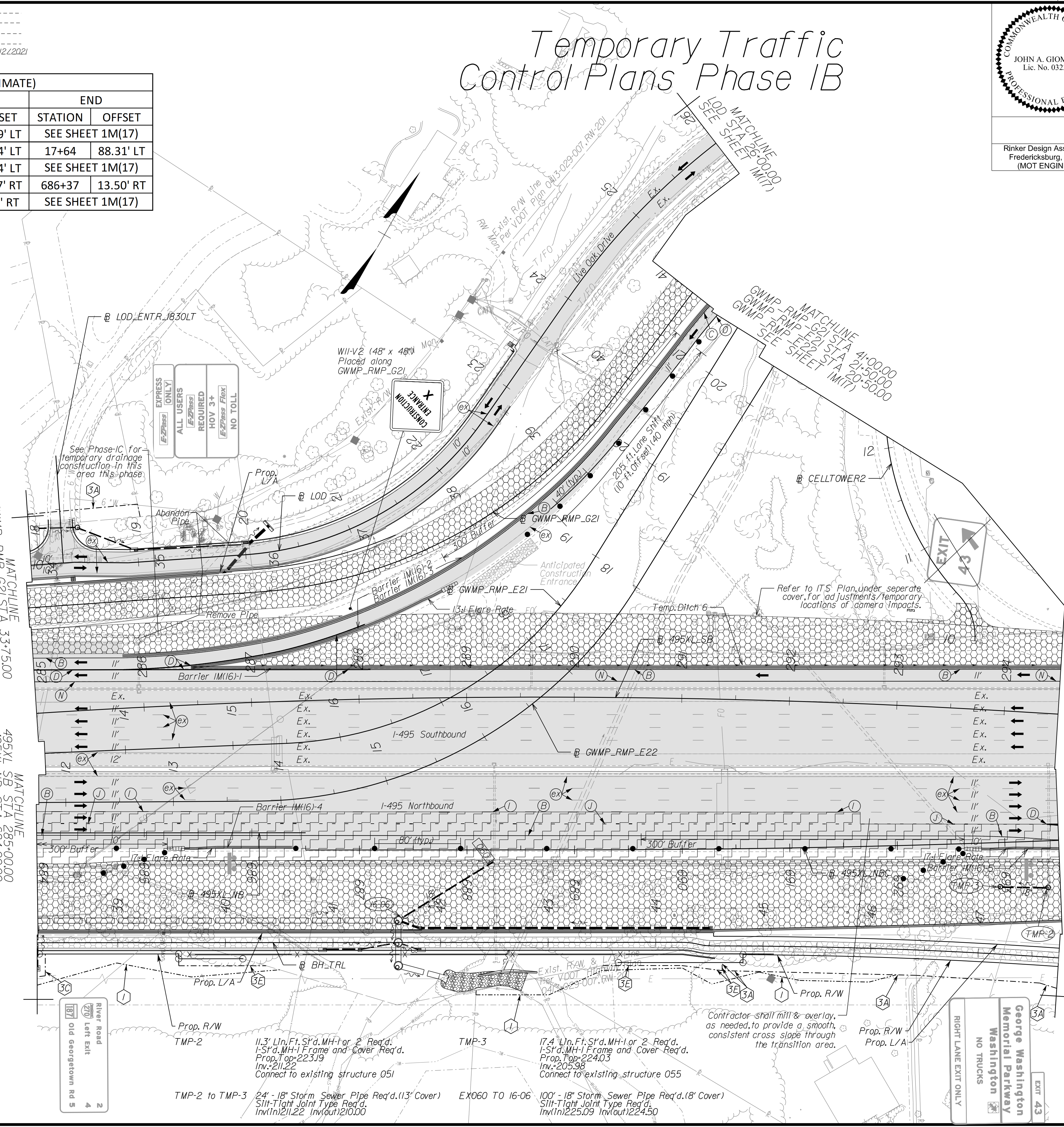
Note: Temporary, raised pavement markers shall be installed in accordance with the VMAP.

Legend

[Pattern]	Denotes Full-Depth Perm. Pavement Construction This Phase
[Pattern]	Denotes Mill & Overlay/Built-Up Construction This Phase
[Pattern]	Denotes Temp. Pavement Construction This Phase
[Pattern]	Denotes Traffic Area
[Pattern]	Denotes Work Area
[Arrow]	Denotes Traffic Flow
[Dotted]	Denotes Group II Channelizing Devices
[Line]	Denotes Temporary Concrete Barrier
[Symbol]	Denotes TL-3, Type I Impact Attenuator
[Symbol]	Denotes Type III Barricade (Incl. R5-1 "Do Not Enter" Sign)

Note: Legend items shown in grey denote previous phase work/placement.

NOTE:
SEE SHEET 2Z FOR RIGHT-OF-WAY LEGEND.



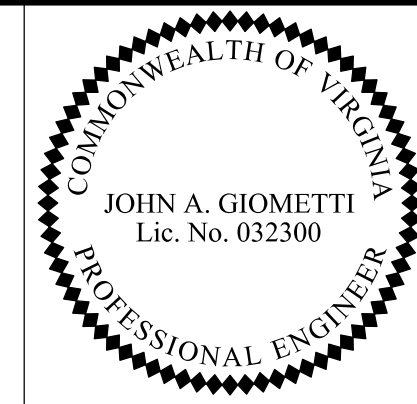
NOVA DISTRICT

10/27/2022

APPROVED FOR CONSTRUCTION

SCALE 0 50' 100'	VDOT PROJECT NO. 0495-029-419	SHEET NO. 1M(16) AREA 4
---------------------	----------------------------------	-------------------------------

PROJECT MANAGER_VDOT - Rita Stah, PE, (703) 259-2362
 SURVEYED BY_DATE_RDA - Nicholas Kaugaulis, LS, (703) 334-0837, 1/2019
 DESIGN BY_RDA - Darrell Fischer, PE, (703) 334-0823
 SUBSURFACE UTILITY BY_DATE_Accumark - Michael Taylor, LS, (703) 635-3060, 1/2/2021



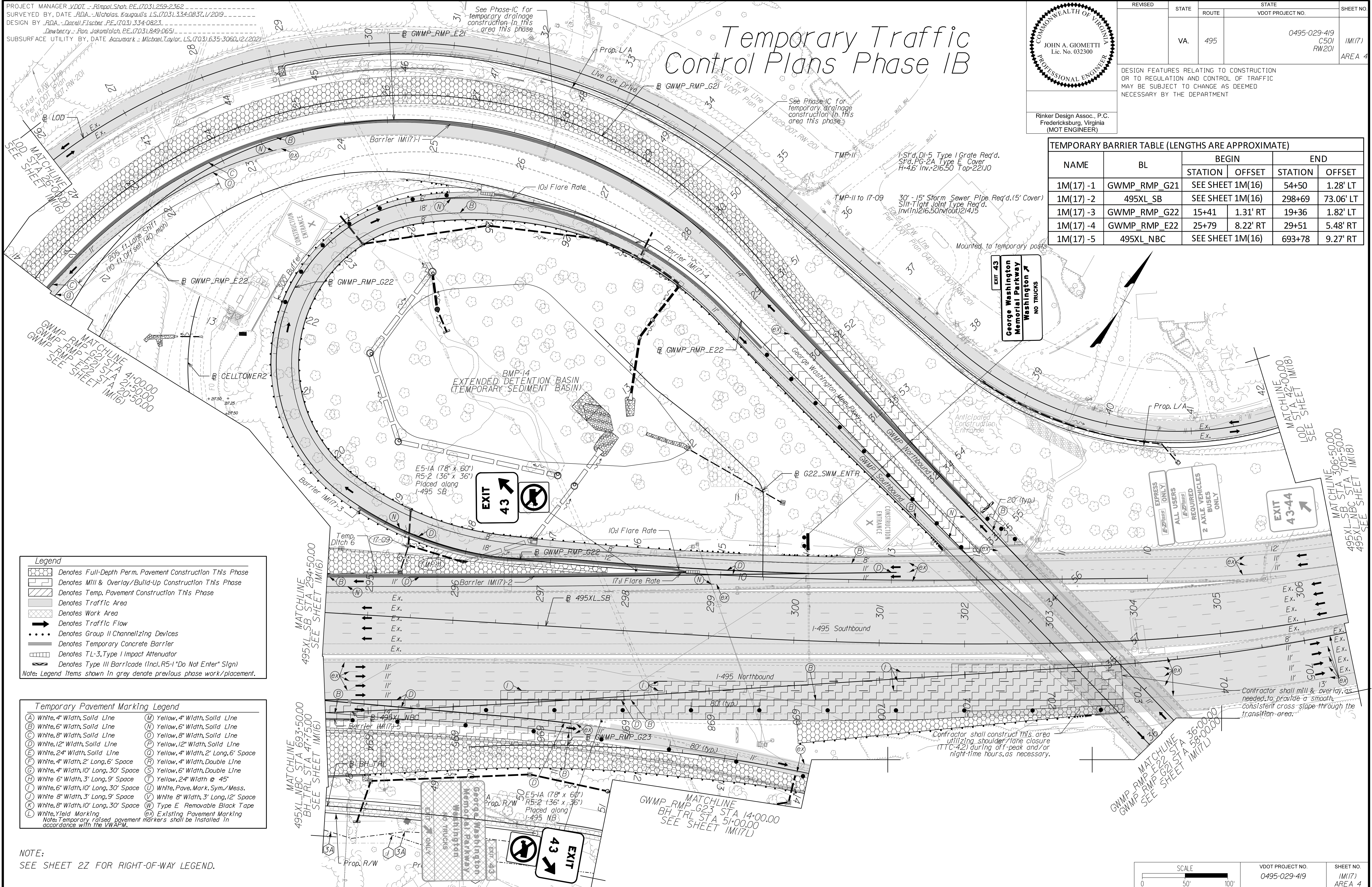
Rinker Design Assoc., P.C.
 Fredericksburg, Virginia
 (MOT ENGINEER)

REVISED	STATE	ROUTE	STATE	VDOT PROJECT NO.	SHEET NO.
	VA.	495		0495-029-419 C501 RW201	1M(17) AREA 4

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

TEMPORARY BARRIER TABLE (LENGTHS ARE APPROXIMATE)

NAME	BL	BEGIN		END	
		STATION	OFFSET	STATION	OFFSET
1M(17)-1	GWMP_RMP_G21	SEE SHEET 1M(16)		54+50	1.28' LT
1M(17)-2	495XL_SB	SEE SHEET 1M(16)		298+69	73.06' LT
1M(17)-3	GWMP_RMP_G22	15+41	1.31' RT	19+36	1.82' LT
1M(17)-4	GWMP_RMP_E22	25+79	8.22' RT	29+51	5.48' RT
1M(17)-5	495XL_NBC	SEE SHEET 1M(16)		693+78	9.27' RT



EXIT 43
 George Washington Memorial Parkway
 Washington
 NO TRUCKS

EXPRESS ONLY
 ALL USERS
 REQUIRED
 2 AXLE VEHICLES
 BUSES ONLY

EXIT 43-44

Legend

- Denotes Full-Depth Perm. Pavement Construction This Phase
- Denotes Mill & Overlay/Build-Up Construction This Phase
- Denotes Temp. Pavement Construction This Phase
- Denotes Traffic Area
- Denotes Work Area
- Denotes Traffic Flow
- Denotes Group II Channelizing Devices
- Denotes Temporary Concrete Barrier
- Denotes TL-3, Type I Impact Attenuator
- Denotes Type III Barricade (Incl. R5-1 "Do Not Enter" Sign)

Note: Legend items shown in grey denote previous phase work/placement.

Temporary Pavement Marking Legend

(A) White, 4" Width, Solid Line	(M) Yellow, 4" Width, Solid Line
(B) White, 6" Width, Solid Line	(N) Yellow, 6" Width, Solid Line
(C) White, 8" Width, Solid Line	(O) Yellow, 8" Width, Solid Line
(D) White, 12" Width, Solid Line	(P) Yellow, 12" Width, Solid Line
(E) White, 24" Width, Solid Line	(Q) Yellow, 4" Width, 2' Long, 6" Space
(F) White, 4" Width, 2' Long, 6" Space	(R) Yellow, 4" Width, Double Line
(G) White, 4" Width, 10' Long, 30' Space	(S) Yellow, 6" Width, Double Line
(H) White, 6" Width, 3' Long, 9' Space	(T) Yellow, 24" Width @ 45'
(I) White, 6" Width, 10' Long, 30' Space	(U) White, Pav. Mark. Sym./ Mess.
(J) White, 8" Width, 3' Long, 9' Space	(V) White, 8" Width, 3' Long, 12' Space
(K) White, 8" Width, 10' Long, 30' Space	(W) Type E Removable Black Tape
(L) White, Yield Marking	(X) Existing Pavement Marking

Note: Temporary, raised pavement markers shall be installed in accordance with the VMAP.

NOTE:
 SEE SHEET 22 FOR RIGHT-OF-WAY LEGEND.

SCALE 0 50' 100'	VDOT PROJECT NO. 0495-029-419	SHEET NO. 1M(17) AREA 4
---------------------	----------------------------------	-------------------------------

APPROVED FOR CONSTRUCTION

PROJECT MANAGER_VDOT - Rita Pal...
SURVEYED BY, DATE_RDA - Nicholas...
DESIGN BY_RDA - Darrell Fischer...
SUBSURFACE UTILITY BY, DATE_Accumark - Michael Taylor...

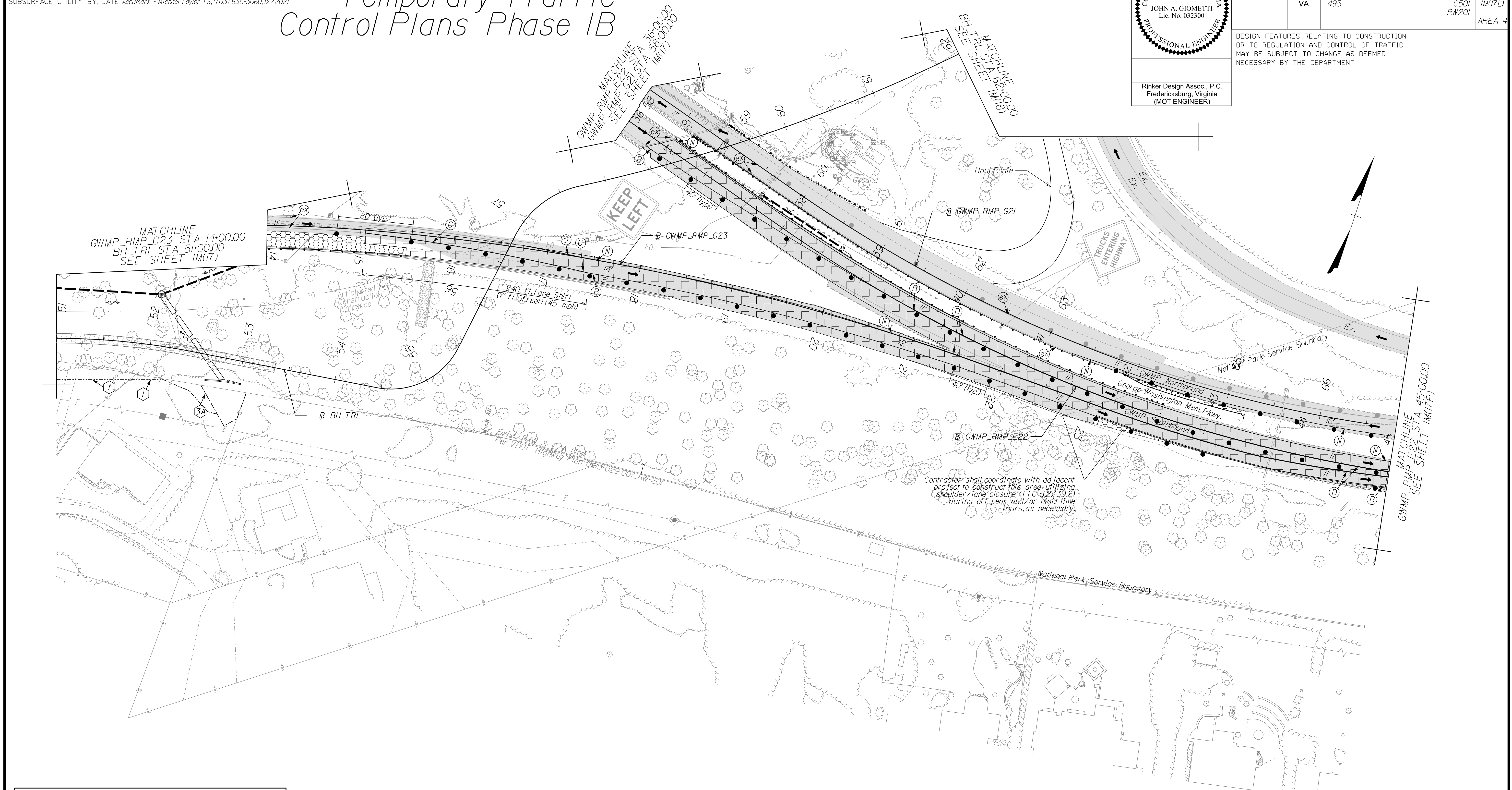
Temporary Traffic Control Plans Phase 1B

COMMONWEALTH OF VIRGINIA
JOHN A. GIOMETTI
Lic. No. 032300
PROFESSIONAL ENGINEER

Rinker Design Assoc., P.C.
Fredericksburg, Virginia
(MOT ENGINEER)

REVISED	STATE	ROUTE	STATE	VDOT PROJECT NO.	SHEET NO.
	VA.	495		0495-029-419 C501 RW201	1M(17L) AREA 4

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



Contractor shall coordinate with adjacent project to construct this area utilizing shoulder/lane closure (TTC-5.2/39.2) during off-peak and/or night-time hours, as necessary.

Temporary Pavement Marking Legend

(A) White, 4" Width, Solid Line	(M) Yellow, 4" Width, Solid Line
(B) White, 6" Width, Solid Line	(N) Yellow, 6" Width, Solid Line
(C) White, 8" Width, Solid Line	(O) Yellow, 8" Width, Solid Line
(D) White, 12" Width, Solid Line	(P) Yellow, 12" Width, Solid Line
(E) White, 24" Width, Solid Line	(Q) Yellow, 4" Width, 2' Long, 6' Space
(F) White, 4" Width, 2' Long, 6' Space	(R) Yellow, 4" Width, Double Line
(G) White, 4" Width, 10' Long, 30' Space	(S) Yellow, 6" Width, Double Line
(H) White, 6" Width, 3' Long, 9' Space	(T) Yellow, 24" Width @ 45'
(J) White, 6" Width, 10' Long, 30' Space	(U) White, Pav. Mark. Sym./Mess.
(K) White, 8" Width, 3' Long, 9' Space	(V) White, 8" Width, 3' Long, 12' Space
(L) White, 8" Width, 10' Long, 30' Space	(W) Type E Removable Black Tape
(X) White, Yield Marking	(@) Existing Pavement Marking

Note: Temporary raised pavement markers shall be installed in accordance with the VWAPM.

Legend

[Pattern]	Denotes Full-Depth Perm. Pavement Construction This Phase
[Pattern]	Denotes Mill & Overlay/Build-Up Construction This Phase
[Pattern]	Denotes Temp. Pavement Construction This Phase
[Pattern]	Denotes Traffic Area
[Pattern]	Denotes Work Area
[Arrow]	Denotes Traffic Flow
[Dotted]	Denotes Group II Channellizing Devices
[Line]	Denotes Temporary Concrete Barrier
[Symbol]	Denotes TL-3, Type I Impact Attenuator
[Symbol]	Denotes Type III Barricade (Incl. R5-1 "Do Not Enter" Sign)

Note: Legend items shown in grey denote previous phase work/placement.

NOTE:
SEE SHEET 2Z FOR RIGHT-OF-WAY LEGEND.

SCALE: 0 50' 100'

VDOT PROJECT NO. 0495-029-419 SHEET NO. 1M(17L) AREA 4

APPROVED FOR CONSTRUCTION

NOVA DISTRICT

PROJECT MANAGER_VDOT - Rupal Shah, PE, (703) 259-2362
SURVEYED BY, DATE_RDA - Nicholas Kougoullis, LS, (703) 334-0837, 1/2019
DESIGN BY_RDA - Darrell Fischer, PE, (703) 334-0823
Dewberry - Ron Jakomilich, PE, (703) 849-0651
SUBSURFACE UTILITY BY, DATE_Accumark - Michael Taylor, LS, (703) 635-3060, 12/2021

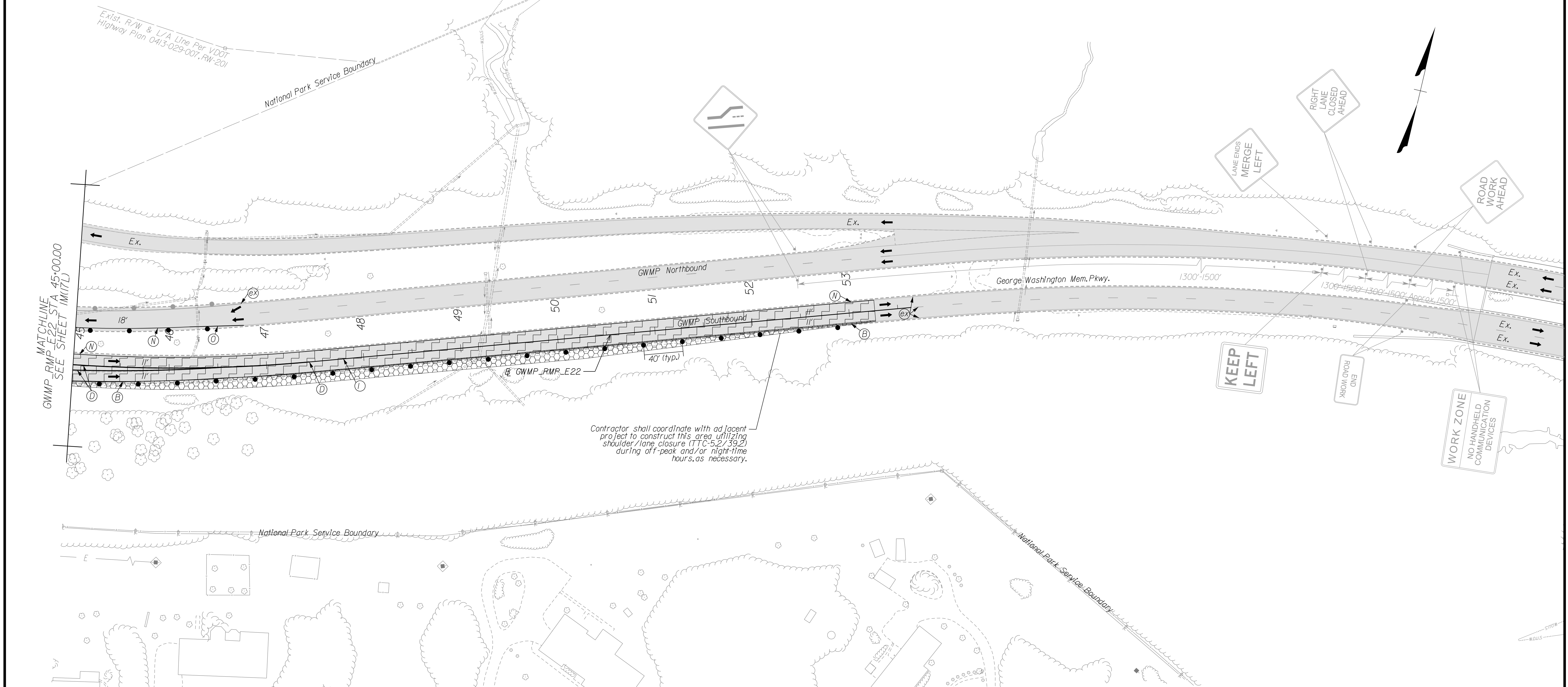
Temporary Traffic Control Plans Phase 1B

COMMONWEALTH OF VIRGINIA
JOHN A. GIOMETTI
Lic. No. 032300
PROFESSIONAL ENGINEER

Rinker Design Assoc., P.C.
Fredericksburg, Virginia
(MOT ENGINEER)

REVISED	STATE	ROUTE	STATE	VDOT PROJECT NO.	SHEET NO.
	VA.	495		0495-029-419 C501 RW201	1M(17P) AREA 4

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



Temporary Pavement Marking Legend

(A) White, 4" Width, Solid Line	(M) Yellow, 4" Width, Solid Line
(B) White, 6" Width, Solid Line	(N) Yellow, 6" Width, Solid Line
(C) White, 8" Width, Solid Line	(O) Yellow, 8" Width, Solid Line
(D) White, 12" Width, Solid Line	(P) Yellow, 12" Width, Solid Line
(E) White, 24" Width, Solid Line	(Q) Yellow, 4" Width, 2' Long, 6' Space
(F) White, 4" Width, 2' Long, 6' Space	(R) Yellow, 4" Width, Double Line
(G) White, 4" Width, 10' Long, 30' Space	(S) Yellow, 6" Width, Double Line
(H) White, 6" Width, 3' Long, 9' Space	(T) Yellow, 24" Width @ 45°
(I) White, 6" Width, 10' Long, 30' Space	(U) White, Pav. Mark. Sym./Mess.
(J) White, 8" Width, 3' Long, 9' Space	(V) White, 8" Width, 3' Long, 12' Space
(K) White, 8" Width, 10' Long, 30' Space	(W) Type E Removable Black Tape
(L) White, Yield Marking	(X) Existing Pavement Marking

Note: Temporary raised pavement markers shall be installed in accordance with the VWAPM.

Legend

[Pattern]	Denotes Full-Depth Perm. Pavement Construction This Phase
[Pattern]	Denotes Mill & Overlay/Build-Up Construction This Phase
[Pattern]	Denotes Temp. Pavement Construction This Phase
[Pattern]	Denotes Traffic Area
[Pattern]	Denotes Work Area
[Arrow]	Denotes Traffic Flow
[Dotted]	Denotes Group II Channelizing Devices
[Line]	Denotes Temporary Concrete Barrier
[Symbol]	Denotes TL-3, Type I Impact Attenuator
[Symbol]	Denotes Type III Barricade (Incl. R5-1 "Do Not Enter" Sign)

Note: Legend Items shown in grey denote previous phase work/placement.

NOTE:
SEE SHEET 2Z FOR RIGHT-OF-WAY LEGEND.

SCALE	VDOT PROJECT NO.	SHEET NO.
0 50' 100'	0495-029-419	1M(17P) AREA 4

APPROVED FOR CONSTRUCTION

NOVA DISTRICT

10/27/2022

PROJECT MANAGER_VDOT - Rita Pal...
SURVEYED BY, DATE_RDA - Nicholas...
DESIGN BY_RDA - Darrell Fischer...
SUBSURFACE UTILITY BY, DATE_Accurmark - Michael Taylor...

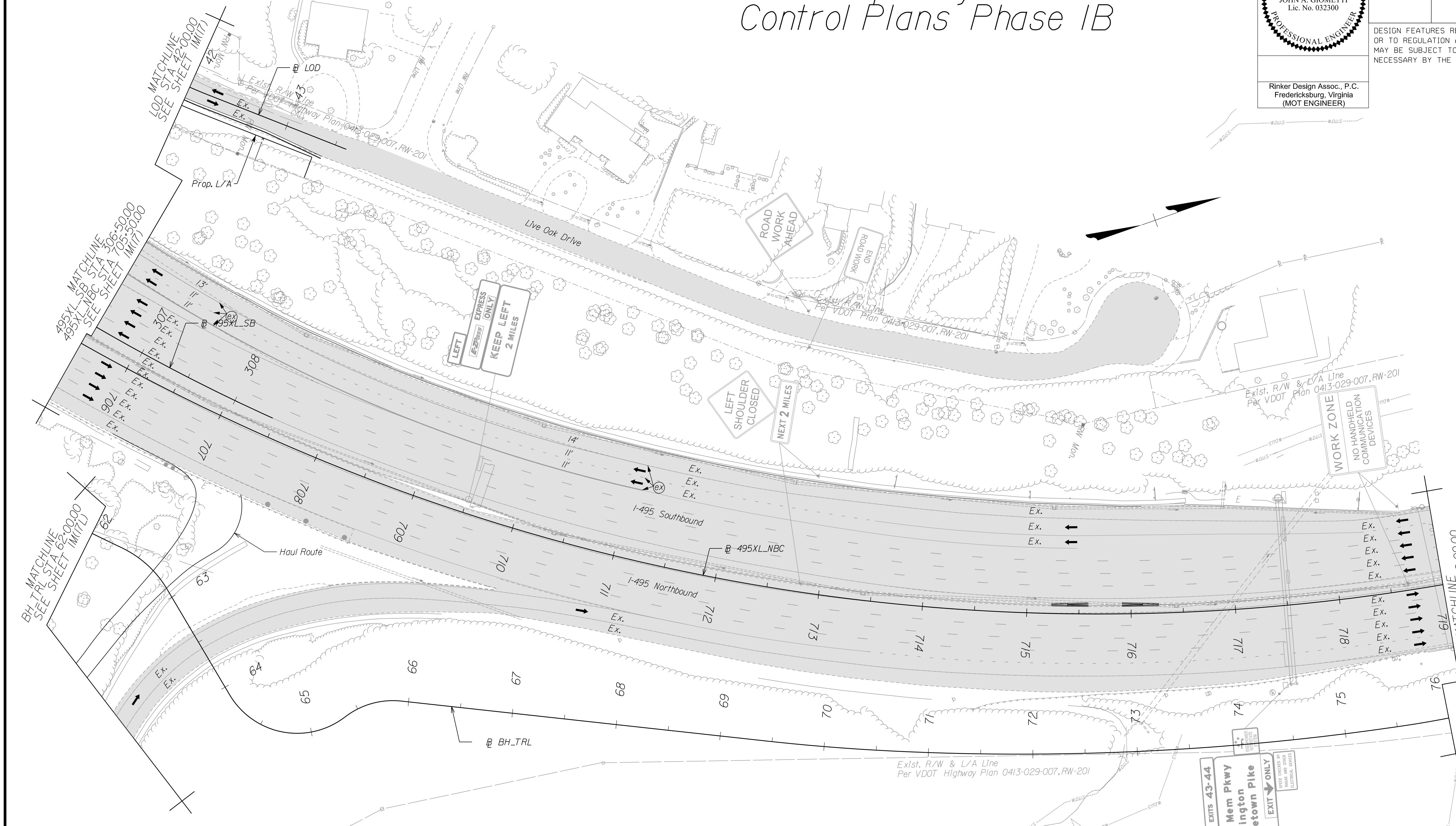
Temporary Traffic Control Plans Phase 1B

COMMONWEALTH OF VIRGINIA
JOHN A. GIOMETTI
 Lic. No. 032300
 PROFESSIONAL ENGINEER

Rinker Design Assoc., P.C.
 Fredericksburg, Virginia
 (MOT ENGINEER)

REVISED	STATE	ROUTE	STATE	VDOT PROJECT NO.	SHEET NO.
	VA.	495		0495-029-419 C501 RW201	IM(18) AREA 4

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



Temporary Pavement Marking Legend

(A) White, 4" Width, Solid Line	(M) Yellow, 4" Width, Solid Line
(B) White, 6" Width, Solid Line	(N) Yellow, 6" Width, Solid Line
(C) White, 8" Width, Solid Line	(O) Yellow, 8" Width, Solid Line
(D) White, 12" Width, Solid Line	(P) Yellow, 12" Width, Solid Line
(E) White, 24" Width, Solid Line	(Q) Yellow, 4" Width, 2' Long, 6' Space
(F) White, 4" Width, 2' Long, 6' Space	(R) Yellow, 4" Width, Double Line
(G) White, 4" Width, 10' Long, 30' Space	(S) Yellow, 6" Width, Double Line
(H) White, 6" Width, 3' Long, 9' Space	(T) Yellow, 24" Width @ 45°
(I) White, 6" Width, 10' Long, 30' Space	(U) White, Pavement Mark. Sym./Mess.
(J) White, 8" Width, 3' Long, 9' Space	(V) White, 8" Width, 3' Long, 12' Space
(K) White, 8" Width, 10' Long, 30' Space	(W) Type E Removable Black Tape
(L) White, Yield Marking	(X) Existing Pavement Marking

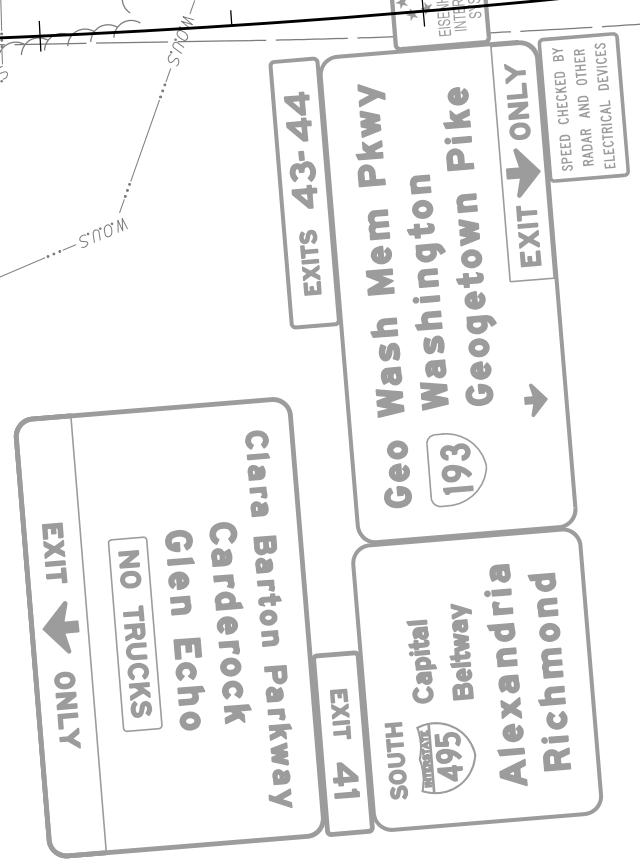
Note: Temporary raised pavement markers shall be installed in accordance with the VYAFM.

Legend

[Pattern]	Denotes Full-Depth Perm. Pavement Construction This Phase
[Pattern]	Denotes Mill & Overlay/Build-Up Construction This Phase
[Pattern]	Denotes Temp. Pavement Construction This Phase
[Pattern]	Denotes Traffic Area
[Pattern]	Denotes Work Area
[Arrow]	Denotes Traffic Flow
[Dotted]	Denotes Group II Channellizing Devices
[Line]	Denotes Temporary Concrete Barrier
[Symbol]	Denotes TL-3, Type I Impact Attenuator
[Symbol]	Denotes Type III Barricade (Incl. R5-1 "Do Not Enter" Sign)

Note: Legend items shown in grey denote previous phase work/placement.

NOTE:
SEE SHEET 22 FOR RIGHT-OF-WAY LEGEND.



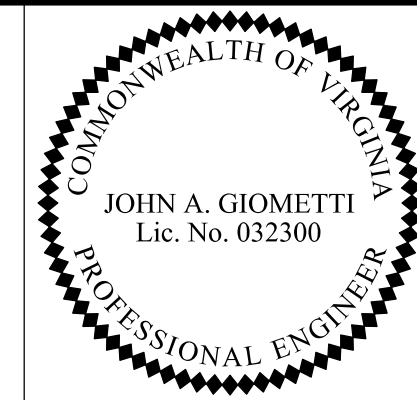
SCALE 0 50' 100'	VDOT PROJECT NO. 0495-029-419	SHEET NO. IM(18) AREA 4
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APPROVED FOR CONSTRUCTION

NOVA DISTRICT

PROJECT MANAGER VDOT - Rupal Shah, PE, (703) 259-2362
SURVEYED BY, DATE RDA - Nicholas Kougaull's, LS, (703) 334-0837, 1/2019
DESIGN BY RDA - Darrell Fischer, PE, (703) 334-0823
SUBSURFACE UTILITY BY, DATE Accupark - Michael Taylor, LS, (703) 635-3060, 12/2021

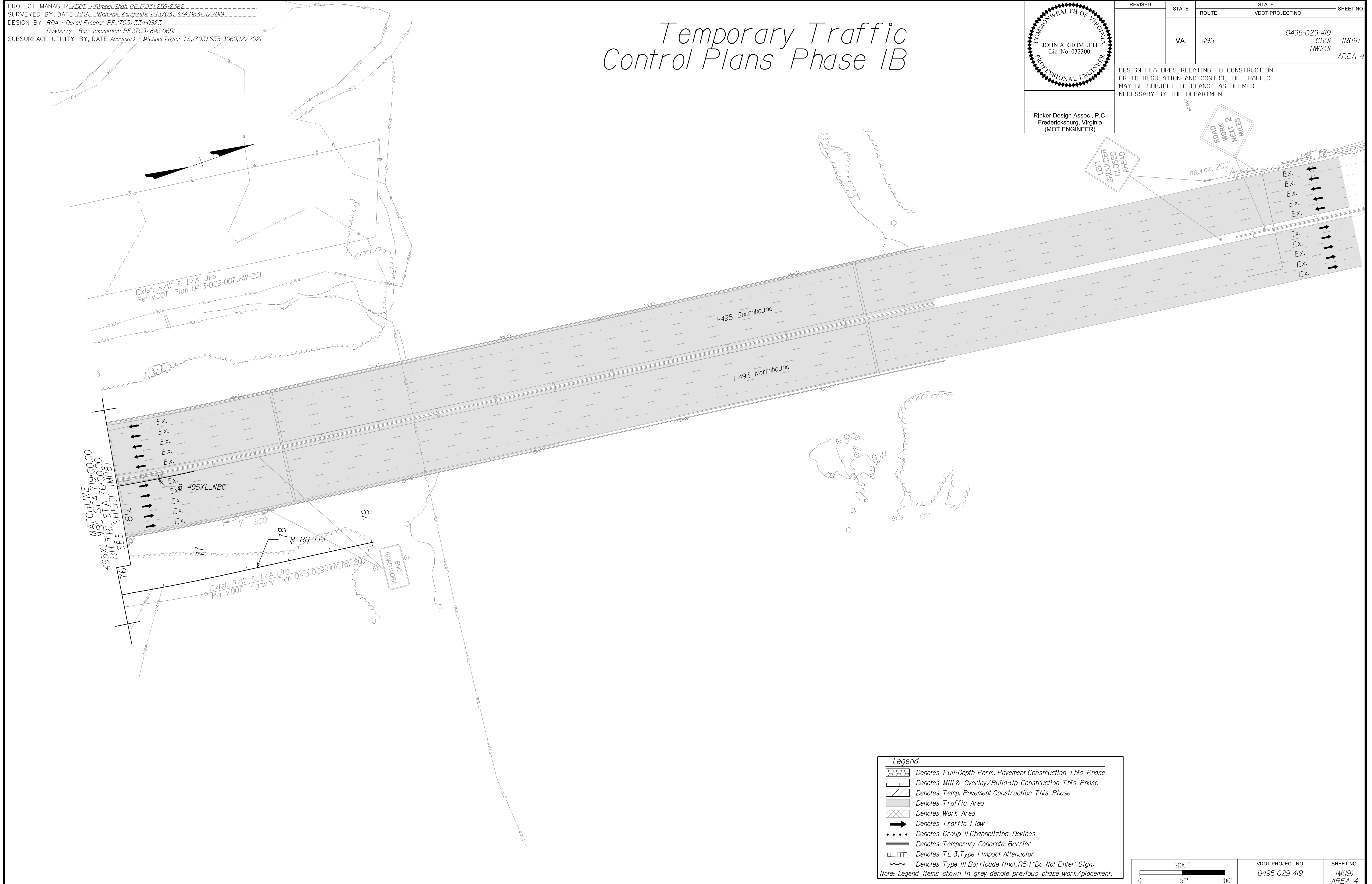
Temporary Traffic Control Plans Phase 1B



Rinker Design Assoc., P.C.
Fredericksburg, Virginia
(MOT ENGINEER)

REVISED	STATE	ROUTE	STATE	VDOT PROJECT NO.	SHEET NO.
	VA.	495		0495-029-419 C501 RW201	IM(19) AREA 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

- Denotes Full-Depth Perm. Pavement Construction This Phase
- Denotes Mill & Overlay/Build-Up Construction This Phase
- Denotes Temp. Pavement Construction This Phase
- Denotes Traffic Area
- Denotes Work Area
- Denotes Traffic Flow
- Denotes Group II Channelizing Devices
- Denotes Temporary Concrete Barrier
- Denotes TL-3, Type I Impact Attenuator
- Denotes Type III Barricade (Incl. R5-1 "Do Not Enter" Sign)

Note: Legend Items shown in grey denote previous phase work/placement.

SCALE 0 50' 100'

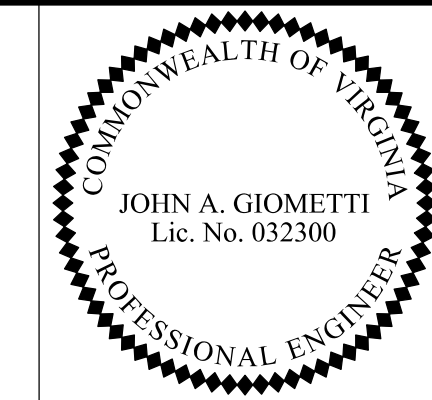
VDOT PROJECT NO. 0495-029-419	SHEET NO. IM(19) AREA 4
----------------------------------	-------------------------------

APPROVED FOR CONSTRUCTION

NOVA DISTRICT

PROJECT MANAGER_VDOT - Rupal Shah, P.E. (703) 259-2362
SURVEYED BY, DATE_RDA - Nicholas Kaugaulis, L.S. (703) 334-0837, 1/2019
DESIGN BY_RDA - Darrell Fischer, P.E. (703) 334-0823
SUBSURFACE UTILITY BY, DATE_Accurark - Michael Taylor, L.S. (703) 635-3060, 12/2021

Temporary Traffic Control Plans Phase 1C

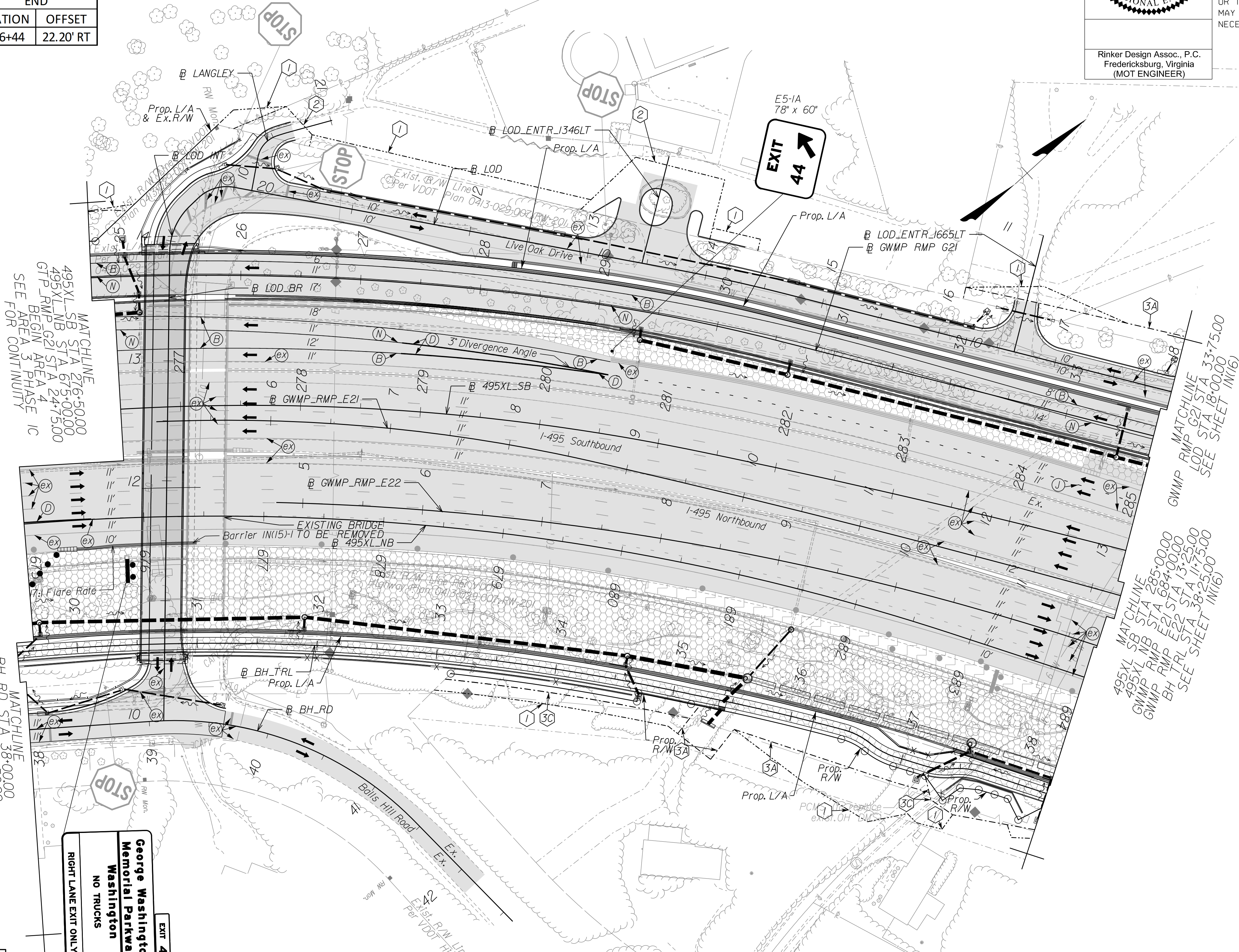


Rinker Design Assoc., P.C.
Fredericksburg, Virginia
(MOT ENGINEER)

REVISED	STATE	ROUTE	STATE	VDOT PROJECT NO.	SHEET NO.
	VA	495		0495-029-419 C501 RW201	IN(15) AREA 4

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

NAME	BL	BEGIN		END	
		STATION	OFFSET	STATION	OFFSET
1N(15)-1	495XL_NB	675+43	23.96' RT	676+44	22.20' RT



MATCHLINE
495XL-SB STA 276+50.00
495XL-NB STA 675+00.00
GTP RMP G21 STA 247+50.00
BEGIN AREA 3 PHASE 1C
SEE FOR CONTINUITY

MATCHLINE
G21 STA 337+75.00
LOD STA 187+00.00
SEE SHEET IN(16)

MATCHLINE
495XL-SB STA 285+00.00
495XL-NB STA 684+00.00
G21 STA 13+25.00
SEE SHEET IN(16)

MATCHLINE
BH TRL STA 29+50.00
BH RD STA 29+50.00
BEGIN AREA 4 PHASE 1C
SEE FOR CONTINUITY

RIGHT LANE EXIT ONLY
George Washington Memorial Parkway
Washington
NO TRUCKS
EXIT 43

Mount to temporary skid

(A) White, 4" Width, Solid Line	(M) Yellow, 4" Width, Solid Line
(B) White, 6" Width, Solid Line	(N) Yellow, 6" Width, Solid Line
(C) White, 8" Width, Solid Line	(O) Yellow, 8" Width, Solid Line
(D) White, 12" Width, Solid Line	(P) Yellow, 12" Width, Solid Line
(E) White, 24" Width, Solid Line	(Q) Yellow, 4" Width, 2' Long, 6' Space
(F) White, 4" Width, 2' Long, 6' Space	(R) Yellow, 4" Width, Double Line
(G) White, 4" Width, 10' Long, 30' Space	(S) Yellow, 6" Width, Double Line
(H) White, 6" Width, 3' Long, 9' Space	(T) Yellow, 24" Width @ 45°
(I) White, 6" Width, 10' Long, 30' Space	(U) White, Pavement Marking, Sym./Mess.
(J) White, 8" Width, 3' Long, 9' Space	(V) White, 8" Width, 3' Long, 12' Space
(K) White, 8" Width, 10' Long, 30' Space	(W) Type E Removable Black Tape
(L) White, Yield Marking	(X) Existing Pavement Marking

Note: Temporary raised pavement markers shall be installed in accordance with the VMAP.

[Pattern]	Denotes Full-Depth Perm. Pavement Construction This Phase
[Pattern]	Denotes Mill & Overlay/Build-Up Construction This Phase
[Pattern]	Denotes Temp. Pavement Construction This Phase
[Pattern]	Denotes Traffic Area
[Pattern]	Denotes Work Area
[Arrow]	Denotes Traffic Flow
[Dotted]	Denotes Group II Channellizing Devices
[Line]	Denotes Temporary Concrete Barrier
[Symbol]	Denotes TL-3, Type I Impact Attenuator
[Symbol]	Denotes Type III Barricade (Incl. R5-1 "Do Not Enter" Sign)

Note: Legend items shown in grey denote previous phase work/placement.

NOTE:
SEE SHEET 2Z FOR RIGHT-OF-WAY LEGEND.

SCALE 0 50' 100'	VDOT PROJECT NO. 0495-029-419	SHEET NO. IN(15) AREA 4
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APPROVED FOR CONSTRUCTION

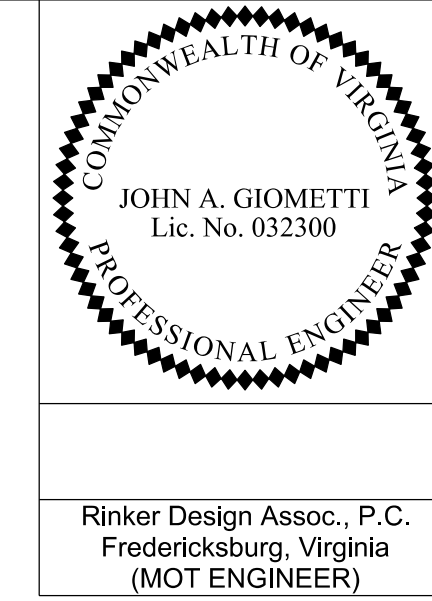
NOVA DISTRICT

10/26/2022

PROJECT MANAGER VDOT - Rupal Shah, P.E. (703) 259-2362
 SURVEYED BY, DATE RDA - Nicholas Kaugaulis, L.S. (703) 334-0837, 1/20/19
 DESIGN BY RDA - Darrell Fischer, P.E. (703) 334-0823
 SUBSURFACE UTILITY BY, DATE Accumark - Michael Taylor, L.S. (703) 635-3060, 12/20/21

EX067 to 16-22 36" - 15" Storm Sewer Pipe Req'd. (19' Cover)
 511-Tight Joint Type Req'd.
 Inv(1)1222.87 Inv(Out)1222.00

Temporary Traffic Control Plans Phase 1C



REVISED	STATE	ROUTE	STATE	VDOT PROJECT NO.	SHEET NO.
	VA	495		0495-029-419 C501 RW201	IN(16) AREA 4

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

Rinker Design Assoc., P.C.
 Fredericksburg, Virginia
 (MOT ENGINEER)

NAME	BL	BEGIN		END	
		STATION	OFFSET	STATION	OFFSET
1N(16)-1	495XL_NBC	688+40	1.07' LT	689+30	2.12' LT

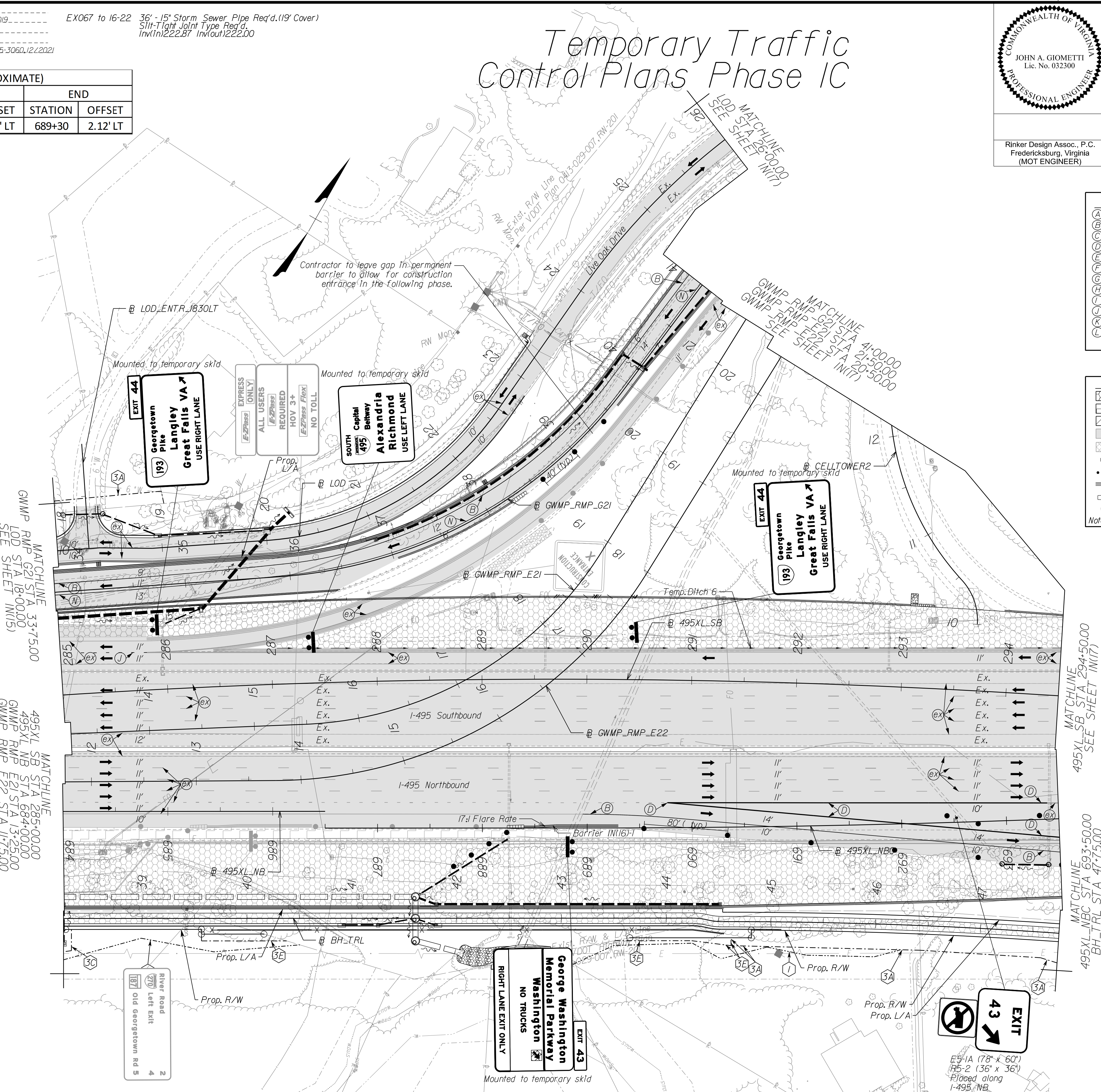
(A) White, 4" Width, Solid Line	(M) Yellow, 4" Width, Solid Line
(B) White, 6" Width, Solid Line	(N) Yellow, 6" Width, Solid Line
(C) White, 8" Width, Solid Line	(O) Yellow, 8" Width, Solid Line
(D) White, 12" Width, Solid Line	(P) Yellow, 12" Width, Solid Line
(E) White, 24" Width, Solid Line	(Q) Yellow, 4" Width, 2' Long, 6' Space
(F) White, 4" Width, 2' Long, 6' Space	(R) Yellow, 4" Width, Double Line
(G) White, 4" Width, 10' Long, 30' Space	(S) Yellow, 6" Width, Double Line
(H) White, 6" Width, 3' Long, 9' Space	(T) Yellow, 24" Width @ 45'
(I) White, 6" Width, 10' Long, 30' Space	(U) White, Pav. Mark. Sym./Mess.
(J) White, 8" Width, 3' Long, 9' Space	(V) White, 8" Width, 3' Long, 12' Space
(K) White, 8" Width, 10' Long, 30' Space	(W) Type E Removable Black Tape
(L) White, Yield Marking	(X) Existing Pavement Marking

Note: Temporary, raised pavement markers shall be installed in accordance with the VWAEM.

[Pattern]	Denotes Full-Depth Perm. Pavement Construction This Phase
[Pattern]	Denotes Mill & Overlay/Build-Up Construction This Phase
[Pattern]	Denotes Temp. Pavement Construction This Phase
[Pattern]	Denotes Traffic Area
[Pattern]	Denotes Work Area
[Arrow]	Denotes Traffic Flow
[Dotted]	Denotes Group II Channelizing Devices
[Line]	Denotes Temporary Concrete Barrier
[Symbol]	Denotes TL-3, Type I Impact Attenuator
[Symbol]	Denotes Type III Barricade (Incl. R5-1 "Do Not Enter" Sign)

Note: Legend items shown in grey denote previous phase work/placement.

NOTE:
 SEE SHEET 2Z FOR RIGHT-OF-WAY LEGEND.



MATCHLINE
 GWMP RMP G21 STA 33+75.00
 LOD STA 18+00.00
 SEE SHEET IN(15)

MATCHLINE
 495XL SB STA 285+00.00
 495XL NB STA 684+00.00
 GWMP RMP E21 STA 13+25.00
 GWMP RMP E22 STA 11+75.00
 BH TRL STA 38+25.00
 SEE SHEET IN(15)

MATCHLINE
 495XL SB STA 294+50.00
 BH TRL STA 47+75.00
 SEE SHEET IN(17)

MATCHLINE
 495XL NBC STA 693+50.00
 BH TRL STA 47+75.00
 SEE SHEET IN(17)

NOVA DISTRICT

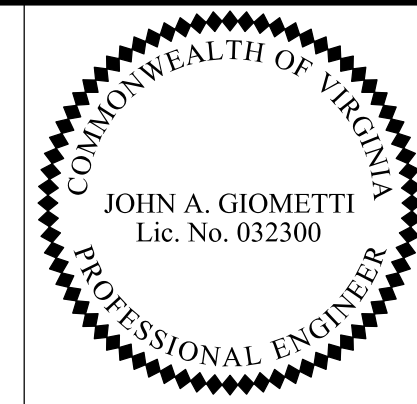
10/26/2022

APPROVED FOR CONSTRUCTION

SCALE 0 50' 100'	VDOT PROJECT NO. 0495-029-419	SHEET NO. IN(16) AREA 4
---------------------	----------------------------------	-------------------------------

PROJECT MANAGER_VDOT - Rupal Shah, PE, (703) 259-2362
 SURVEYED BY, DATE_RDA - Nicholas Kaugaulis, LS, (703) 334-0837, 1/2019
 DESIGN BY_RDA - Darrell Fischer, PE, (703) 334-0823
 SUBSURFACE UTILITY BY, DATE_Accumark - Michael Taylor, LS, (703) 635-3060, 1/2/2022

Temporary Traffic Control Plans Phase 1C

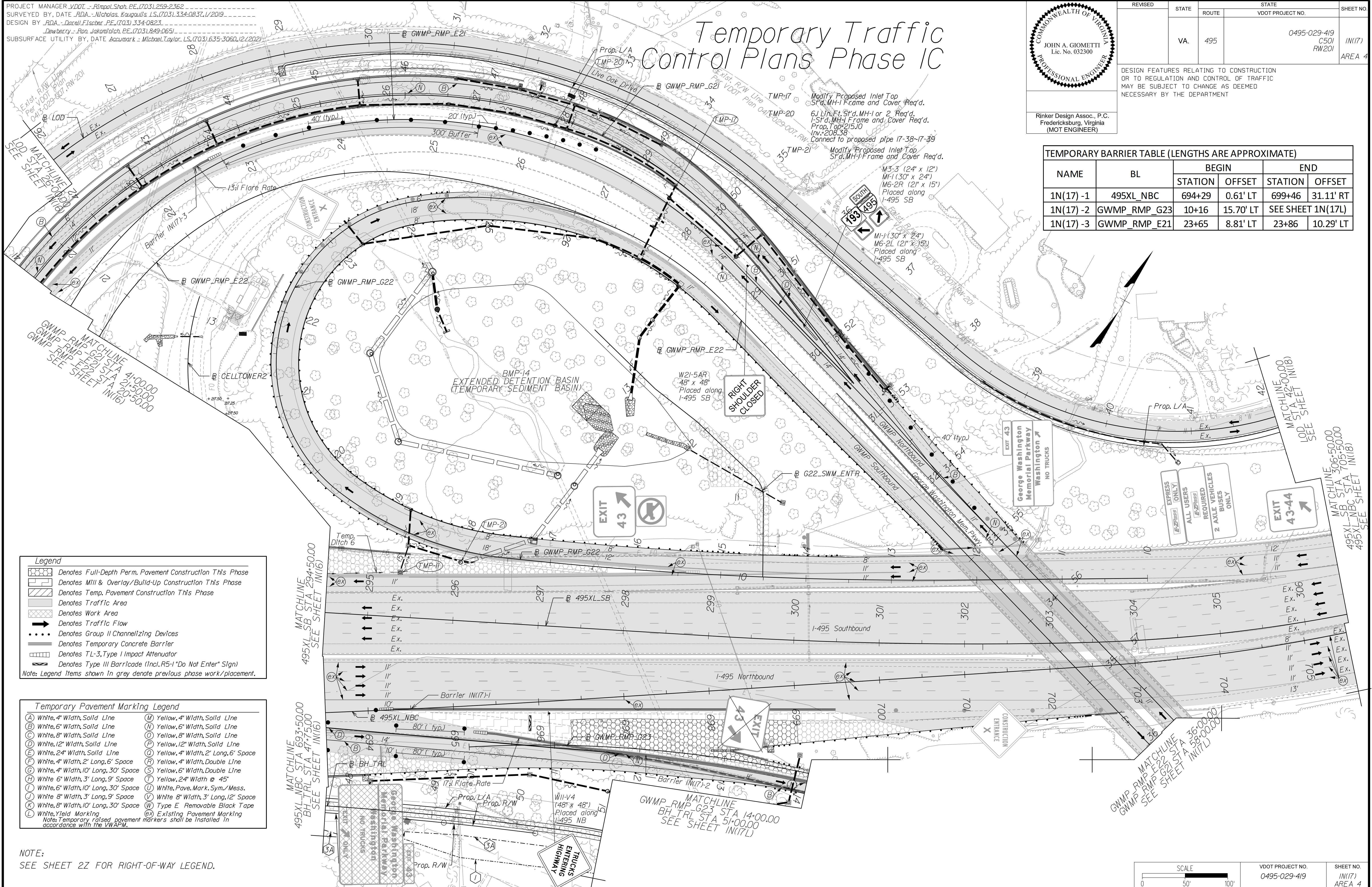


Rinker Design Assoc., P.C.
 Fredericksburg, Virginia
 (MOT ENGINEER)

REVISED	STATE	ROUTE	STATE	VDOT PROJECT NO.	SHEET NO.
	VA.	495		0495-029-419 C501 RW201	IN(17) AREA 4

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

NAME	BL	BEGIN		END	
		STATION	OFFSET	STATION	OFFSET
1N(17)-1	495XL_NBC	694+29	0.61' LT	699+46	31.11' RT
1N(17)-2	GWMP_RMP_G23	10+16	15.70' LT	SEE SHEET 1N(17L)	
1N(17)-3	GWMP_RMP_E21	23+65	8.81' LT	23+86	10.29' LT



Legend

- Denotes Full-Depth Perm. Pavement Construction This Phase
- Denotes Mill & Overlay/Build-Up Construction This Phase
- Denotes Temp. Pavement Construction This Phase
- Denotes Traffic Area
- Denotes Work Area
- Denotes Traffic Flow
- Denotes Group II Channelizing Devices
- Denotes Temporary Concrete Barrier
- Denotes TL-3, Type I Impact Attenuator
- Denotes Type III Barricade (Incl. R5-1 "Do Not Enter" Sign)

Note: Legend items shown in grey denote previous phase work/placement.

Temporary Pavement Marking Legend

(A) White, 4" Width, Solid Line	(M) Yellow, 4" Width, Solid Line
(B) White, 6" Width, Solid Line	(N) Yellow, 6" Width, Solid Line
(C) White, 8" Width, Solid Line	(O) Yellow, 8" Width, Solid Line
(D) White, 12" Width, Solid Line	(P) Yellow, 12" Width, Solid Line
(E) White, 24" Width, Solid Line	(Q) Yellow, 4" Width, 2' Long, 6" Space
(F) White, 4" Width, 2' Long, 6" Space	(R) Yellow, 4" Width, Double Line
(G) White, 4" Width, 10' Long, 30' Space	(S) Yellow, 6" Width, Double Line
(H) White, 6" Width, 3' Long, 9' Space	(T) Yellow, 24" Width @ 45'
(I) White, 6" Width, 10' Long, 30' Space	(U) White, Pav. Mark. Sym./Mess.
(J) White, 8" Width, 3' Long, 9' Space	(V) White, 8" Width, 3' Long, 12" Space
(K) White, 8" Width, 10' Long, 30' Space	(W) Type E Removable Black Tape
(L) White, Yield Marking	(X) Existing Pavement Marking

Note: Temporary, raised pavement markers shall be installed in accordance with the VMAP.

NOTE:
 SEE SHEET 22 FOR RIGHT-OF-WAY LEGEND.

SCALE: 0 50' 100'

VDOT PROJECT NO. 0495-029-419 SHEET NO. IN(17) AREA 4

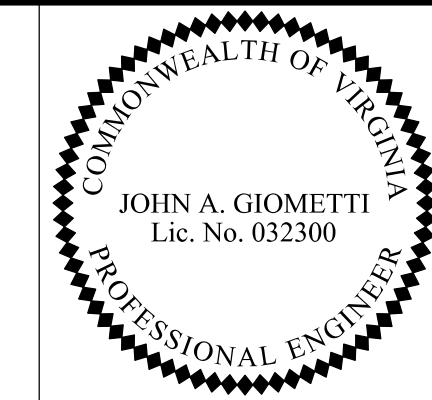
APPROVED FOR CONSTRUCTION

NOVA DISTRICT

10/26/2022

PROJECT MANAGER VDOT - Rupal Shah, PE, (703) 259-2362
SURVEYED BY, DATE RDA - Nicholas Kaugall's, LS, (703) 334-0837, 1/2019
DESIGN BY RDA - Darrell Fischer, PE, (703) 334-0823
SUBSURFACE UTILITY BY, DATE Accumark - Michael Taylor, LS, (703) 635-3060, 12/2021

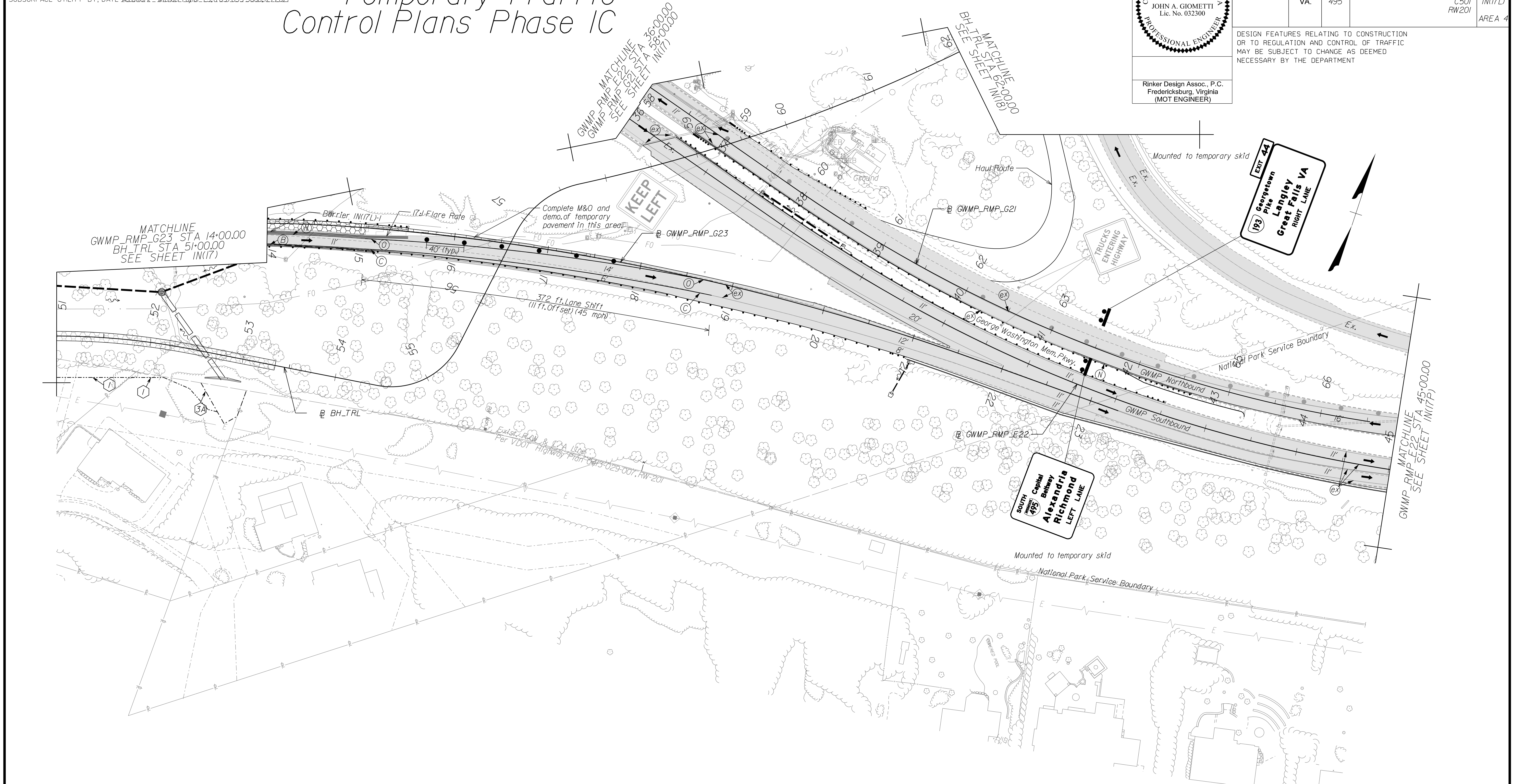
Temporary Traffic Control Plans Phase 1C



Rinker Design Assoc., P.C.
Fredericksburg, Virginia
(MOT ENGINEER)

REVISED	STATE	ROUTE	STATE	VDOT PROJECT NO.	SHEET NO.
	VA.	495		0495-029-419 C501 RW201	IN(17L) AREA 4

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



NOVA DISTRICT

Temporary Pavement Marking Legend

(A) White, 4" Width, Solid Line	(M) Yellow, 4" Width, Solid Line
(B) White, 6" Width, Solid Line	(N) Yellow, 6" Width, Solid Line
(C) White, 8" Width, Solid Line	(O) Yellow, 8" Width, Solid Line
(D) White, 12" Width, Solid Line	(P) Yellow, 12" Width, Solid Line
(E) White, 24" Width, Solid Line	(Q) Yellow, 4" Width, 2' Long, 6' Space
(F) White, 4" Width, 2' Long, 6' Space	(R) Yellow, 4" Width, Double Line
(G) White, 4" Width, 10' Long, 30' Space	(S) Yellow, 6" Width, Double Line
(H) White, 6" Width, 3' Long, 9' Space	(T) Yellow, 24" Width @ 45'
(I) White, 6" Width, 10' Long, 30' Space	(U) White, Pavement Mark, Sym./Mess.
(J) White, 8" Width, 3' Long, 9' Space	(V) White, 8" Width, 3' Long, 12' Space
(K) White, 8" Width, 10' Long, 30' Space	(W) Type E Removable Black Tape
(L) White, Yield Marking	(X) Existing Pavement Marking

Note: Temporary raised pavement markers shall be installed in accordance with the VWAPM.

TEMPORARY BARRIER TABLE (LENGTHS ARE APPROXIMATE)

NAME	BL	BEGIN		END	
		STATION	OFFSET	STATION	OFFSET
1N(17L)-1	GWMP_RMP_G23	SEE SHEET 1N(17)		15+50	10.00' RT

NOTE:
SEE SHEET 2Z FOR RIGHT-OF-WAY LEGEND.

Legend

- Denotes Full-Depth Perm. Pavement Construction This Phase
- Denotes Mill & Overlay/Build-Up Construction This Phase
- Denotes Temp. Pavement Construction This Phase
- Denotes Traffic Area
- Denotes Work Area
- Denotes Traffic Flow
- Denotes Group II Channelizing Devices
- Denotes Temporary Concrete Barrier
- Denotes TL-3, Type I Impact Attenuator
- Denotes Type III Barricade (Incl. R5-1 'Do Not Enter' Sign)

Note: Legend items shown in grey denote previous phase work/placement.

SCALE 0 50' 100'	VDOT PROJECT NO. 0495-029-419	SHEET NO. IN(17L) AREA 4
---------------------	----------------------------------	--------------------------------

APPROVED FOR CONSTRUCTION

PROJECT MANAGER VDOT - Rupal Shah, PE, (703) 259-2362
SURVEYED BY, DATE RDA - Nicholas Kaugaulis, LS, (703) 334-0837, 1/2019
DESIGN BY RDA - Darrell Fischer, PE, (703) 334-0823
SUBSURFACE UTILITY BY, DATE Accumark - Michael Taylor, LS, (703) 635-3060, 12/2021

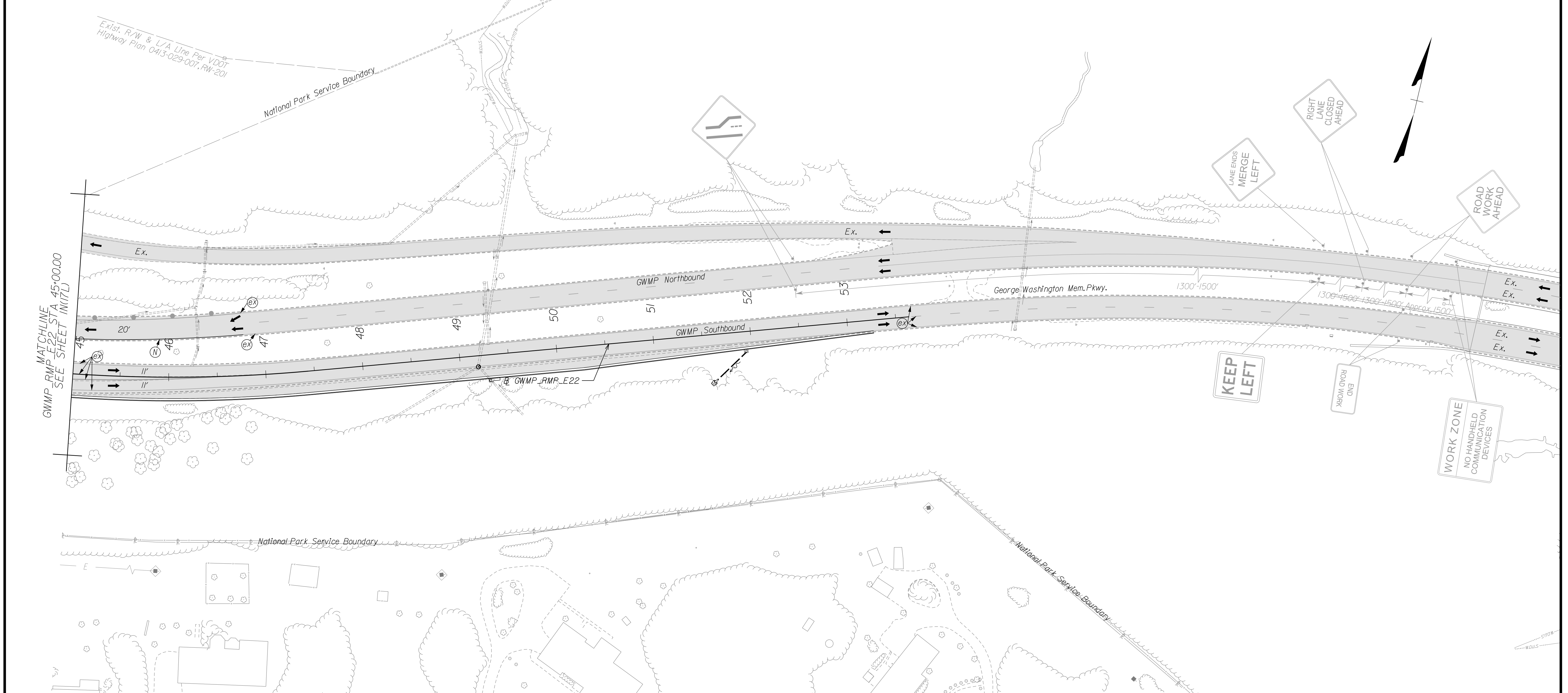
Temporary Traffic Control Plans Phase 1C

COMMONWEALTH OF VIRGINIA
PROFESSIONAL ENGINEER
JOHN A. GIOMETTI
Lic. No. 032300

Rinker Design Assoc., P.C.
Fredericksburg, Virginia
(MOT ENGINEER)

REVISED	STATE	ROUTE	STATE	VDOT PROJECT NO.	SHEET NO.
	VA.	495		0495-029-419 C501 RW201	IN(17P) AREA 4

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



NOVA DISTRICT

Temporary Pavement Marking Legend

(A) White, 4" Width, Solid Line	(M) Yellow, 4" Width, Solid Line
(B) White, 6" Width, Solid Line	(N) Yellow, 6" Width, Solid Line
(C) White, 8" Width, Solid Line	(O) Yellow, 8" Width, Solid Line
(D) White, 12" Width, Solid Line	(P) Yellow, 12" Width, Solid Line
(E) White, 24" Width, Solid Line	(Q) Yellow, 4" Width, 2' Long, 6' Space
(F) White, 4" Width, 2' Long, 6' Space	(R) Yellow, 4" Width, Double Line
(G) White, 4" Width, 10' Long, 30' Space	(S) Yellow, 6" Width, Double Line
(H) White, 6" Width, 3' Long, 9' Space	(T) Yellow, 24" Width @ 45'
(I) White, 6" Width, 10' Long, 30' Space	(U) White, Pav. Mark. Sym./Mess.
(J) White, 8" Width, 3' Long, 9' Space	(V) White, 8" Width, 3' Long, 12' Space
(K) White, 8" Width, 10' Long, 30' Space	(W) Type E Removable Black Tape
(L) White, Yield Marking	(X) Existing Pavement Marking

Note: Temporary raised pavement markers shall be installed in accordance with the VWAPM.

NOTE:
SEE SHEET 22 FOR RIGHT-OF-WAY LEGEND.

Legend

[Pattern]	Denotes Full-Depth Perm. Pavement Construction This Phase
[Pattern]	Denotes Mill & Overlay/Build-Up Construction This Phase
[Pattern]	Denotes Temp. Pavement Construction This Phase
[Pattern]	Denotes Traffic Area
[Pattern]	Denotes Work Area
[Arrow]	Denotes Traffic Flow
[Dashed]	Denotes Group II Channelizing Devices
[Line]	Denotes Temporary Concrete Barrier
[Symbol]	Denotes TL-3, Type I Impact Attenuator
[Symbol]	Denotes Type III Barricade (Incl. R5-1 "Do Not Enter" Sign)

Note: Legend Items shown in grey denote previous phase work/placement.

SCALE 0 50' 100'

VDOT PROJECT NO. 0495-029-419

SHEET NO. IN(17P) AREA 4

APPROVED FOR CONSTRUCTION

PROJECT MANAGER_VDOT - Rita Pal...
SURVEYED BY, DATE_RDA - Nicholas...
DESIGN BY_RDA - Darrell Fischer...
SUBSURFACE UTILITY BY, DATE_Accurmark - Michael Taylor...

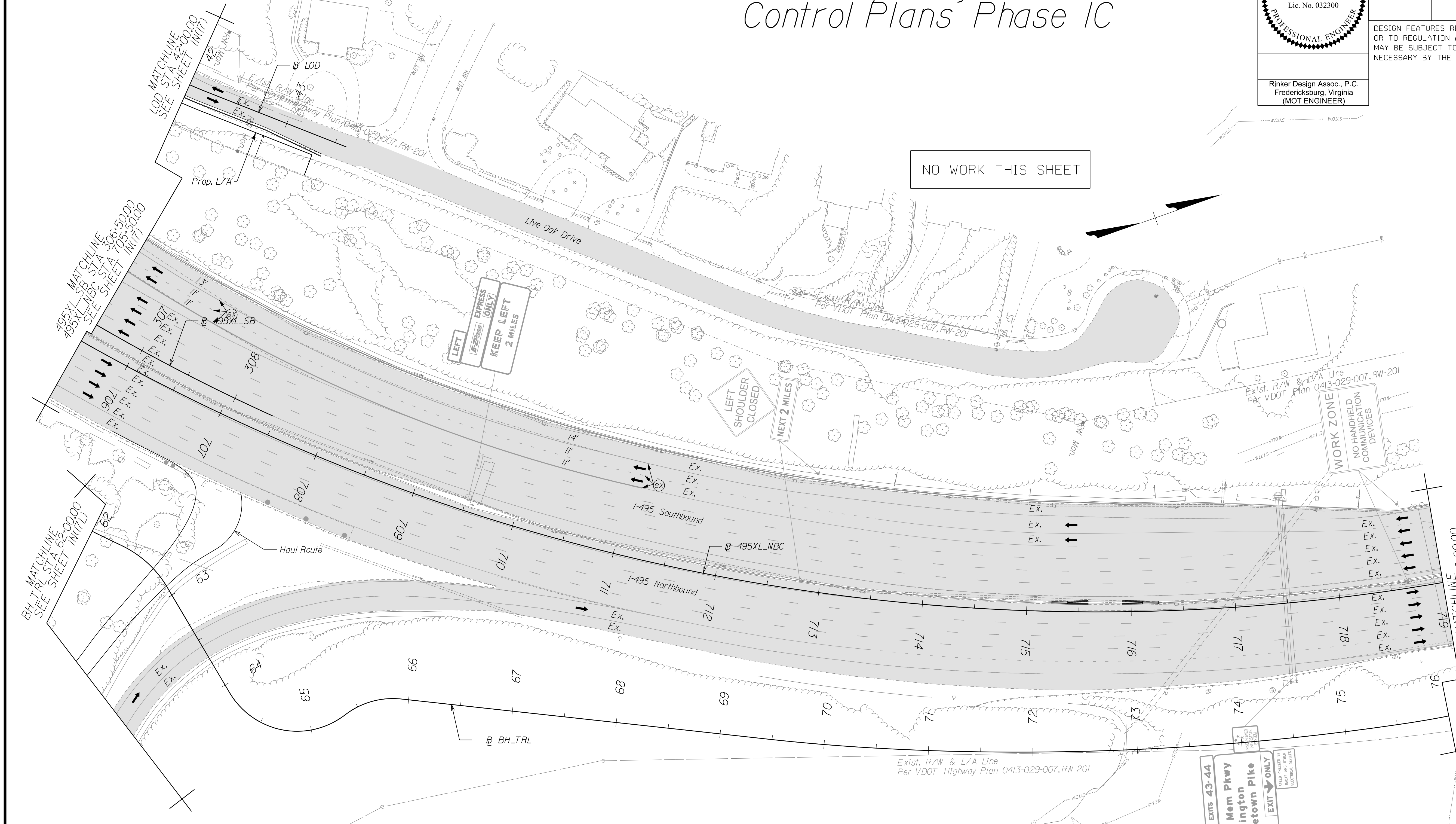
Temporary Traffic Control Plans Phase 1C

COMMONWEALTH OF VIRGINIA
JOHN A. GIOMETTI
 Lic. No. 032300
 PROFESSIONAL ENGINEER

Rinker Design Assoc., P.C.
 Fredericksburg, Virginia
 (MOT ENGINEER)

REVISED	STATE	ROUTE	STATE	VDOT PROJECT NO.	SHEET NO.
	VA.	495		0495-029-419 C501 RW201	IN(18) AREA 4

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



NOVA DISTRICT

Temporary Pavement Marking Legend

(A) White, 4" Width, Solid Line	(M) Yellow, 4" Width, Solid Line
(B) White, 6" Width, Solid Line	(N) Yellow, 6" Width, Solid Line
(C) White, 8" Width, Solid Line	(O) Yellow, 8" Width, Solid Line
(D) White, 12" Width, Solid Line	(P) Yellow, 12" Width, Solid Line
(E) White, 24" Width, Solid Line	(Q) Yellow, 4" Width, 2' Long, 6' Space
(F) White, 4" Width, 2' Long, 6' Space	(R) Yellow, 4" Width, Double Line
(G) White, 4" Width, 10' Long, 30' Space	(S) Yellow, 6" Width, Double Line
(H) White, 6" Width, 3' Long, 9' Space	(T) Yellow, 24" Width @ 45°
(I) White, 6" Width, 10' Long, 30' Space	(U) White, Pavement Mark. Sym./Mess.
(J) White, 8" Width, 3' Long, 9' Space	(V) White, 8" Width, 3' Long, 12' Space
(K) White, 8" Width, 10' Long, 30' Space	(W) Type E Removable Black Tape
(L) White, Yield Marking	(X) Existing Pavement Marking

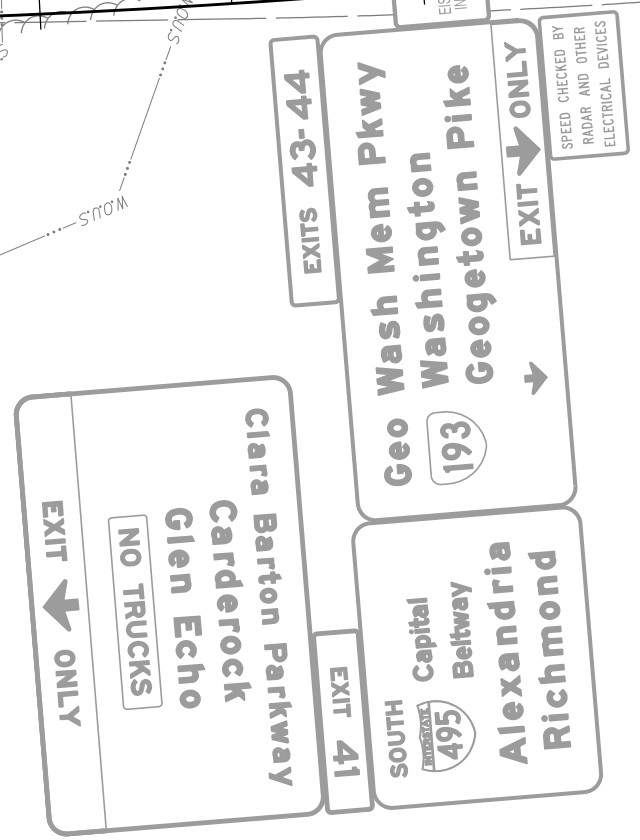
Note: Temporary raised pavement markers shall be installed in accordance with the VYAFM.

Legend

[Pattern]	Denotes Full-Depth Perm. Pavement Construction This Phase
[Pattern]	Denotes Mill & Overlay/Build-Up Construction This Phase
[Pattern]	Denotes Temp. Pavement Construction This Phase
[Pattern]	Denotes Traffic Area
[Pattern]	Denotes Work Area
[Arrow]	Denotes Traffic Flow
[Dashed]	Denotes Group II Channellizing Devices
[Line]	Denotes Temporary Concrete Barrier
[Symbol]	Denotes TL-3, Type I Impact Attenuator
[Symbol]	Denotes Type III Barricade (Incl. R5-1 "Do Not Enter" Sign)

Note: Legend items shown in grey denote previous phase work/placement.

NOTE:
SEE SHEET 22 FOR RIGHT-OF-WAY LEGEND.



SCALE 0 50' 100'	VDOT PROJECT NO. 0495-029-419	SHEET NO. IN(18) AREA 4
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APPROVED FOR CONSTRUCTION

PROJECT MANAGER VDOT - Rupal Shah, PE (703) 259-2362
SURVEYED BY, DATE RDA - Nicholas Kougaull's, LS (703) 334-0837, 1/2019
DESIGN BY RDA - Darrell Fischer, PE (703) 334-0823
SUBSURFACE UTILITY BY, DATE Accupark - Michael Taylor, LS (703) 635-3060, 12/2021

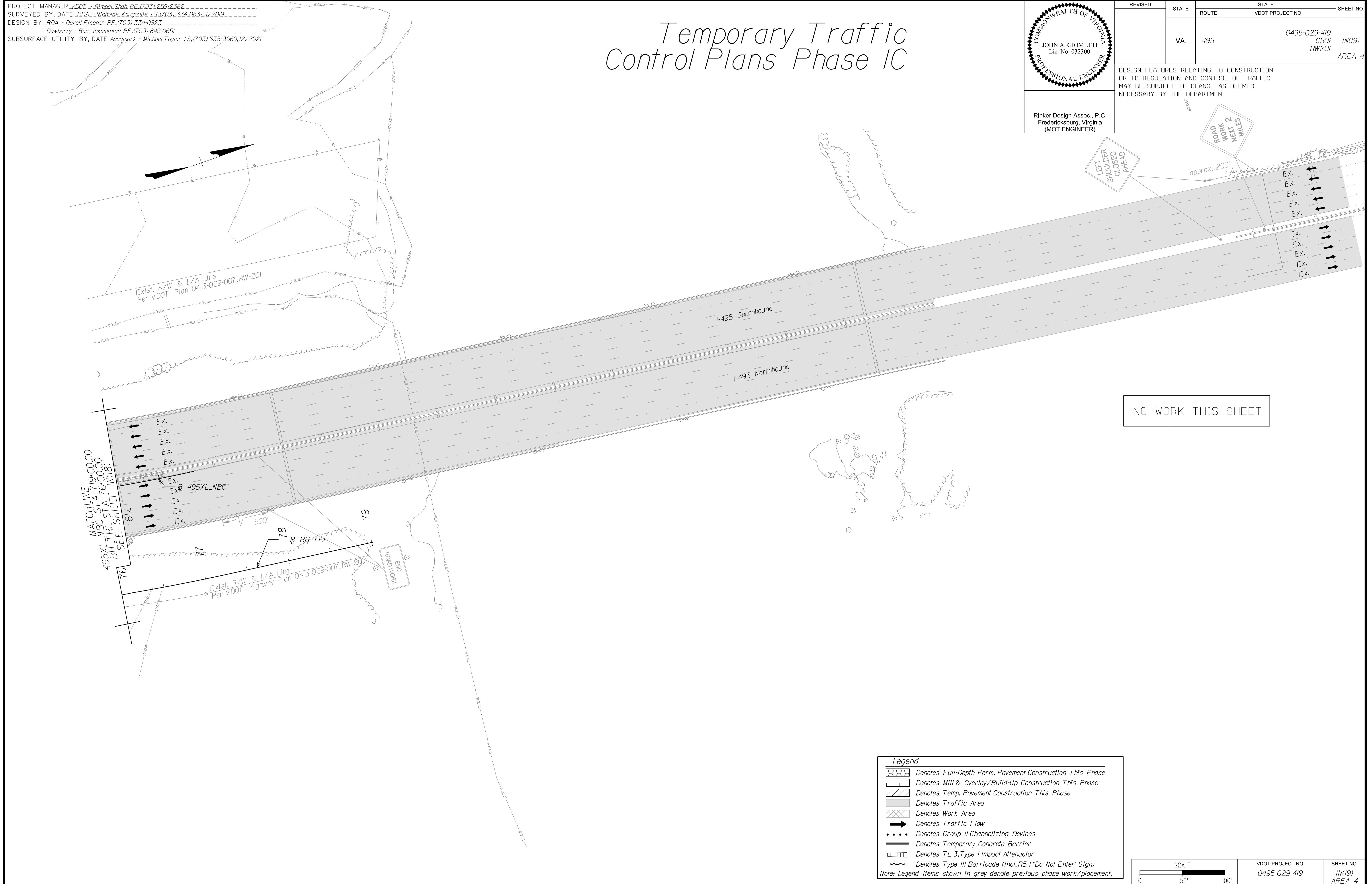
Temporary Traffic Control Plans Phase 1C

COMMONWEALTH OF VIRGINIA
PROFESSIONAL ENGINEER
JOHN A. GIOMETTI
Lic. No. 032300

Rinker Design Assoc., P.C.
Fredericksburg, Virginia
(MOT ENGINEER)

REVISED	STATE	ROUTE	STATE	VDOT PROJECT NO.	SHEET NO.
	VA.	495		0495-029-419 C501 RW201	IN(19) AREA 4

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



MATCHLINE
495XL-NBC STA 719+00.00
495XL-NBC STA 76+00.00
BH-TRL SEE SHEET IN(18)

Ex. 495XL-NBC
Ex. BH-TRL

Ex. R/W & L/A Line
Per VDOT Highway Plan 0413-029-007, RW-201

END ROADWORK

Legend

- Denotes Full-Depth Perm. Pavement Construction This Phase
- Denotes Mill & Overlay/Build-Up Construction This Phase
- Denotes Temp. Pavement Construction This Phase
- Denotes Traffic Area
- Denotes Work Area
- Denotes Traffic Flow
- Denotes Group II Channelizing Devices
- Denotes Temporary Concrete Barrier
- Denotes TL-3, Type I Impact Attenuator
- Denotes Type III Barricade (Incl. R5-1 "Do Not Enter" Sign)

Note: Legend Items shown in grey denote previous phase work/placement.

SCALE 0 50' 100'

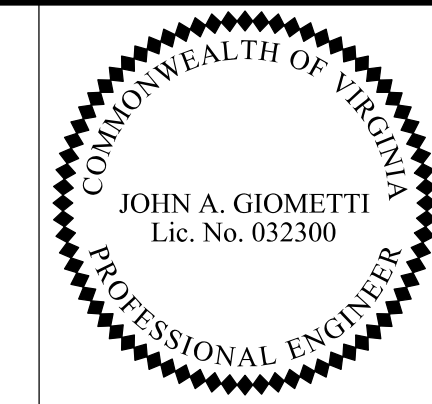
VDOT PROJECT NO. 0495-029-419 SHEET NO. IN(19) AREA 4

APPROVED FOR CONSTRUCTION

NOVA DISTRICT

PROJECT MANAGER_VDOT - Rupal Shah, PE, (703) 259-2362
 SURVEYED BY, DATE_RDA - Nicholas Kougoullis, LS, (703) 334-0837, 1/2019
 DESIGN BY_RDA - Darrell Fischer, PE, (703) 334-0823
 Dewberry - Ron Jakomilich, PE, (703) 849-0651
 SUBSURFACE UTILITY BY, DATE_Accurmark - Michael Taylor, LS, (703) 635-3060, 12/2021

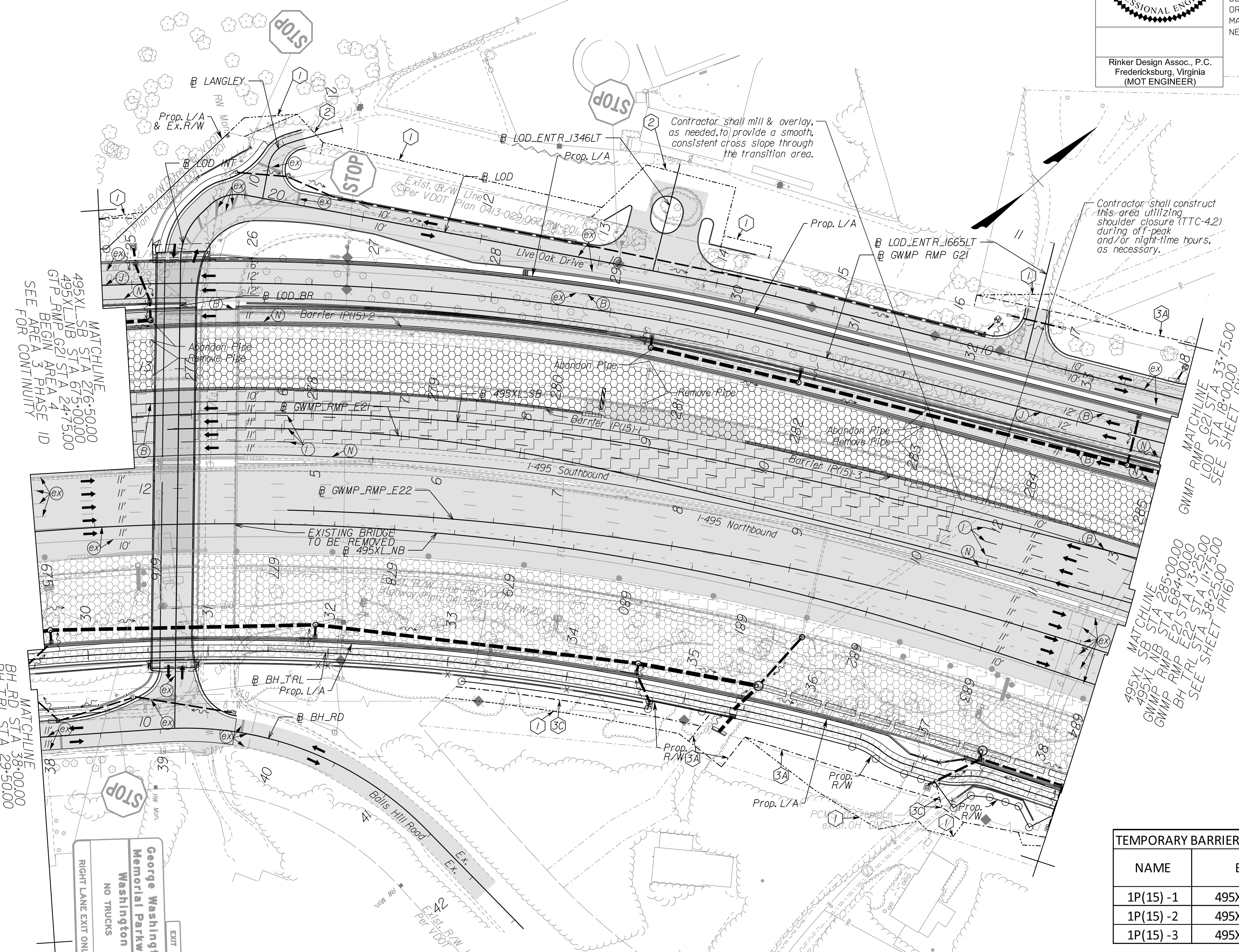
Temporary Traffic Control Plans Phase 1D



Rinker Design Assoc., P.C.
 Fredericksburg, Virginia
 (MOT ENGINEER)

REVISED	STATE	ROUTE	STATE	VDOT PROJECT NO.	SHEET NO.
	VA	495		0495-029-419 C501 RW201	1P(15) AREA 4

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

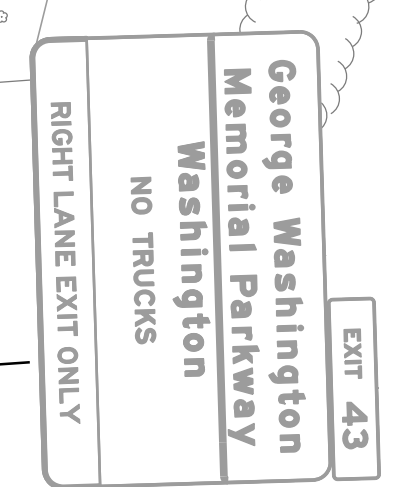


MATCHLINE
 495XL_SB STA 276+50.00
 495XL_NB STA 275+00.00
 GTP_RMP_G21 STA 247+50.00
 BEGIN AREA 3
 SEE FOR CONTINUITY PHASE 1D

MATCHLINE
 LOD_ENTR_I665LT
 GWMP RMP G21
 STA 33+75.00
 SEE SHEET 1P(16)

MATCHLINE
 495XL_SB STA 285+00.00
 495XL_NB STA 284+00.00
 GWMP_RMP_E22 STA 13+25.00
 BH_TRL STA 38+25.00
 SEE SHEET 1P(16)

MATCHLINE
 BH_RD STA 38+00.00
 BH_TRL STA 29+50.00
 BEGIN AREA 4
 SEE FOR CONTINUITY PHASE 1D



NAME	BL	BEGIN		END	
		STATION	OFFSET	STATION	OFFSET
1P(15)-1	495XL_SB	SEE AREA 3		280+24	19.42' LT
1P(15)-2	495XL_SB	SEE AREA 3		SEE SHEET 1P(16)	
1P(15)-3	495XL_SB	281+60	20.00' LT	SEE SHEET 1P(16)	

(A) White, 4" Width, Solid Line	(M) Yellow, 4" Width, Solid Line
(B) White, 6" Width, Solid Line	(N) Yellow, 6" Width, Solid Line
(C) White, 8" Width, Solid Line	(O) Yellow, 8" Width, Solid Line
(D) White, 12" Width, Solid Line	(P) Yellow, 12" Width, Solid Line
(E) White, 24" Width, Solid Line	(Q) Yellow, 4" Width, 2' Long, 6' Space
(F) White, 4" Width, 2' Long, 6' Space	(R) Yellow, 4" Width, Double Line
(G) White, 4" Width, 10' Long, 30' Space	(S) Yellow, 6" Width, Double Line
(H) White, 6" Width, 3' Long, 9' Space	(T) Yellow, 24" Width @ 45'
(I) White, 6" Width, 10' Long, 30' Space	(U) White, Pavement Marking, Sym./Mess.
(J) White, 8" Width, 3' Long, 9' Space	(V) White, 8" Width, 3' Long, 12' Space
(K) White, 8" Width, 10' Long, 30' Space	(W) Type E, Removable Black Tape
(L) White, Yield Marking	(X) Existing Pavement Marking

Note: Temporary raised pavement markers shall be installed in accordance with the VMAP.

	Denotes Full-Depth Perm. Pavement Construction This Phase
	Denotes Mill & Overlay/Build-Up Construction This Phase
	Denotes Temp. Pavement Construction This Phase
	Denotes Traffic Area
	Denotes Work Area
	Denotes Traffic Flow
	Denotes Group II Channellizing Devices
	Denotes Temporary Concrete Barrier
	Denotes TL-3, Type I Impact Attenuator
	Denotes Type III Barricade (Incl. R5-1 "Do Not Enter" Sign)

Note: Legend items shown in grey denote previous phase work/placement.

NOTE:
 SEE SHEET 2Z FOR RIGHT-OF-WAY LEGEND.

SCALE 0 50' 100'	VDOT PROJECT NO. 0495-029-419	SHEET NO. 1P(15) AREA 4
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APPROVED FOR CONSTRUCTION

NOVA DISTRICT

10/26/2022

PROJECT MANAGER_VDOT - Rita Pal...
 SURVEYED BY, DATE_RDA - Nicholas...
 DESIGN BY_RDA - Darrell Fischer...
 SUBSURFACE UTILITY BY, DATE_Accumark - Michael Taylor...



REVISED	STATE	ROUTE	STATE	VDOT PROJECT NO.	SHEET NO.
	VA.	495		0495-029-419 C501 RW201	IP(16) AREA 4

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

Temporary Traffic Control Plans Phase ID

NAME	BL	BEGIN		END	
		STATION	OFFSET	STATION	OFFSET
1P(16)-1	495XL_SB	SEE SHEET 1P(15)		291+74	2.35' RT
1P(16)-2	495XL_SB	SEE SHEET 1P(15)		291+75	62.00' LT
1P(16)-3	GWMP_RMP_G21	36+31	6.32' RT	38+73	1.14' RT
1P(16)-4	495XL_SB	293+05	2.50' LT	SEE SHEET 1P(18)	
1P(16)-5	495XL_SB	293+10	61.82' LT	SEE SHEET 1P(17)	

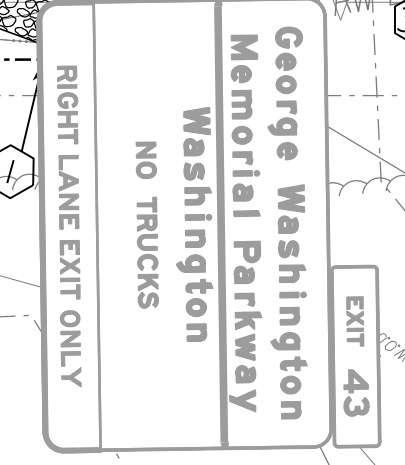
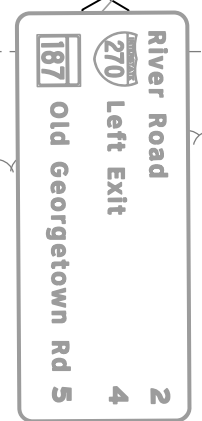
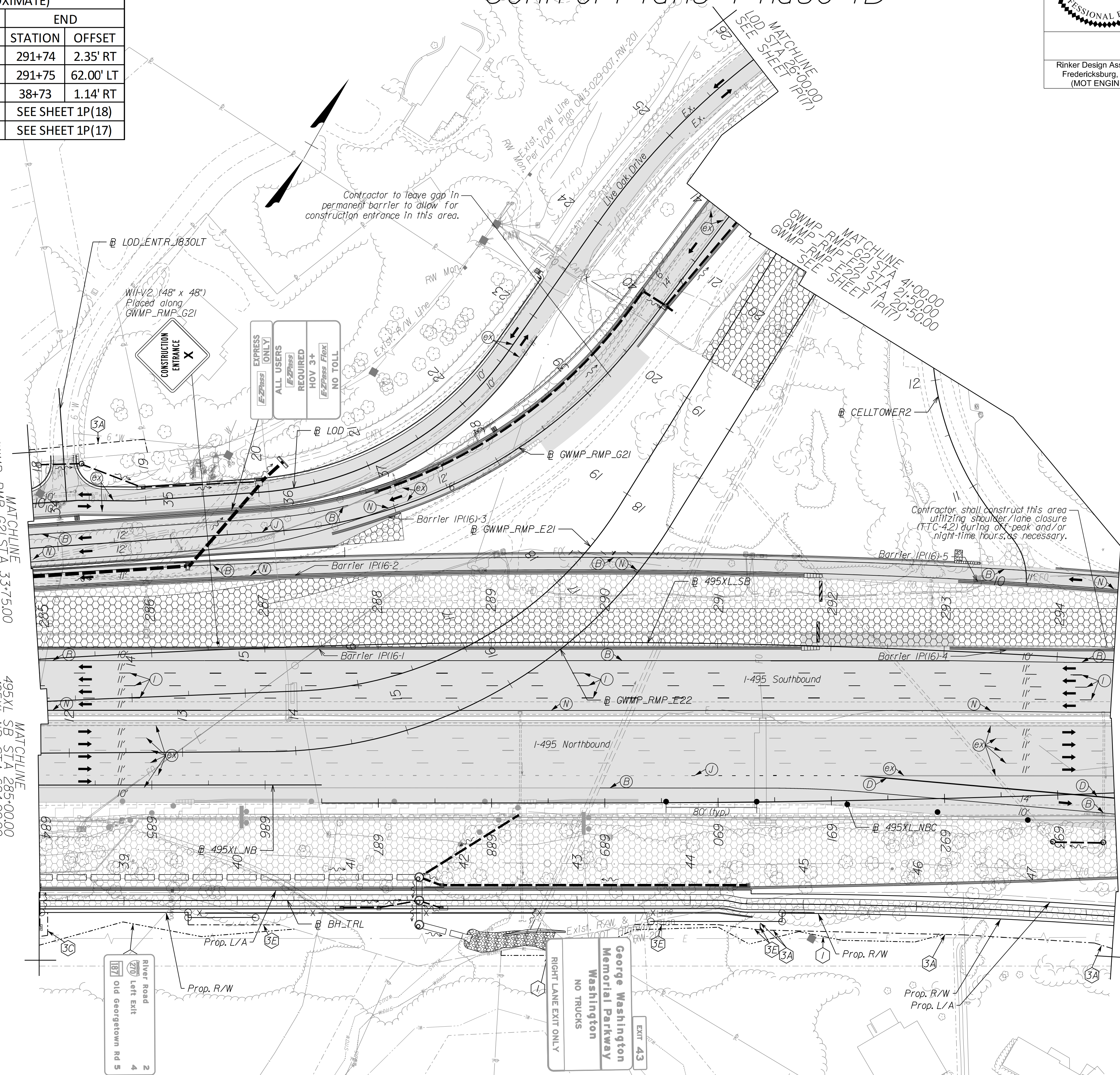
(A) White, 4" Width, Solid Line	(M) Yellow, 4" Width, Solid Line
(B) White, 6" Width, Solid Line	(N) Yellow, 6" Width, Solid Line
(C) White, 8" Width, Solid Line	(O) Yellow, 8" Width, Solid Line
(D) White, 12" Width, Solid Line	(P) Yellow, 12" Width, Solid Line
(E) White, 24" Width, Solid Line	(Q) Yellow, 4" Width, 2' Long, 6' Space
(F) White, 4" Width, 2' Long, 6' Space	(R) Yellow, 4" Width, Double Line
(G) White, 4" Width, 10' Long, 30' Space	(S) Yellow, 6" Width, Double Line
(H) White, 6" Width, 3' Long, 9' Space	(T) Yellow, 24" Width @ 45°
(I) White, 6" Width, 10' Long, 30' Space	(U) White, Pavement Marking Symbol / Mess.
(J) White, 8" Width, 3' Long, 9' Space	(V) White, 8" Width, 3' Long, 12' Space
(K) White, 8" Width, 10' Long, 30' Space	(W) Type E Removable Black Tape
(L) White, Yield Marking	(X) Existing Pavement Marking

Note: Temporary raised pavement markers shall be installed in accordance with the VMAP.

[Pattern]	Denotes Full-Depth Perm. Pavement Construction This Phase
[Pattern]	Denotes Mill & Overlay/Build-Up Construction This Phase
[Pattern]	Denotes Temp. Pavement Construction This Phase
[Pattern]	Denotes Traffic Area
[Pattern]	Denotes Work Area
[Arrow]	Denotes Traffic Flow
[Dotted]	Denotes Group II Channelizing Devices
[Line]	Denotes Temporary Concrete Barrier
[Symbol]	Denotes TL-3, Type I Impact Attenuator
[Symbol]	Denotes Type III Barricade (Incl. R5-1 "Do Not Enter" Sign)

Note: Legend items shown in grey denote previous phase work/placement.

NOTE:
SEE SHEET 2Z FOR RIGHT-OF-WAY LEGEND.



SCALE 0 50' 100'	VDOT PROJECT NO. 0495-029-419	SHEET NO. IP(16) AREA 4
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APPROVED FOR CONSTRUCTION

NOVA DISTRICT

PROJECT MANAGER_VDOT - Rupal Shah, PE, (703) 259-2362
SURVEYED BY, DATE_RDA - Nicholas Kaugaulis, LS, (703) 334-0837, 1/2019
DESIGN BY_RDA - Darrell Fischer, PE, (703) 334-0823
Dewberry - Ron Jakomilich, PE, (703) 849-0651
SUBSURFACE UTILITY BY, DATE_Accumark - Michael Taylor, LS, (703) 635-3060, 1/2/2021

Temporary Traffic Control Plans Phase 1D

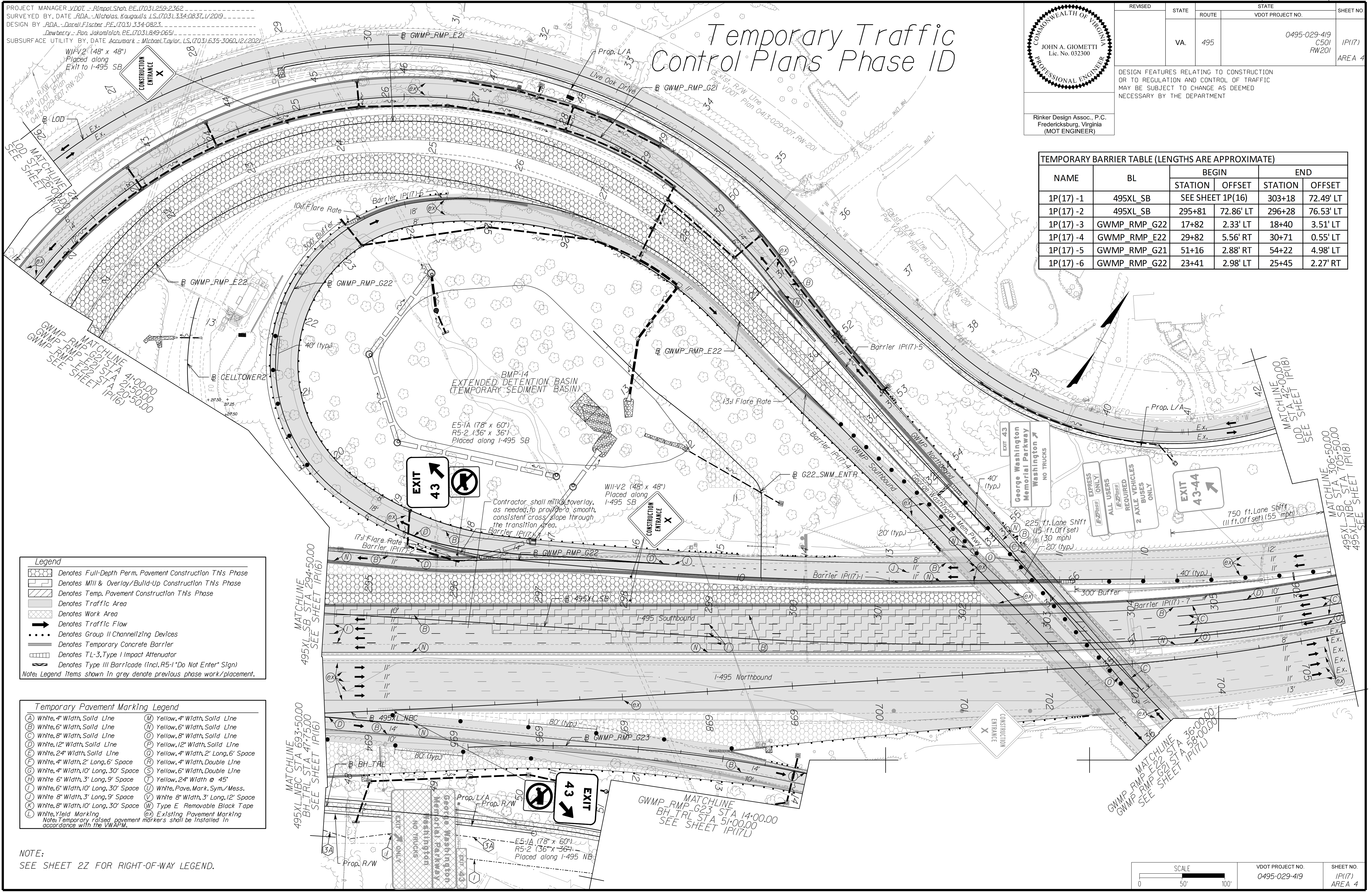
JOHN A. GIOMETTI
Lic. No. 032300
PROFESSIONAL ENGINEER

REVISED	STATE	ROUTE	STATE	VDOT PROJECT NO.	SHEET NO.
	VA.	495		0495-029-419 C501 RW201	IP(17) AREA 4

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

Rinker Design Assoc., P.C.
Fredericksburg, Virginia
(MOT ENGINEER)

NAME	BL	BEGIN		END	
		STATION	OFFSET	STATION	OFFSET
1P(17) -1	495XL_SB	SEE SHEET 1P(16)		303+18	72.49' LT
1P(17) -2	495XL_SB	295+81	72.86' LT	296+28	76.53' LT
1P(17) -3	GWMP_RMP_G22	17+82	2.33' LT	18+40	3.51' LT
1P(17) -4	GWMP_RMP_E22	29+82	5.56' RT	30+71	0.55' LT
1P(17) -5	GWMP_RMP_G21	51+16	2.88' RT	54+22	4.98' LT
1P(17) -6	GWMP_RMP_G22	23+41	2.98' LT	25+45	2.27' RT



Legend

- Denotes Full-Depth Perm. Pavement Construction This Phase
- Denotes Mill & Overlay/Build-Up Construction This Phase
- Denotes Temp. Pavement Construction This Phase
- Denotes Traffic Area
- Denotes Work Area
- Denotes Traffic Flow
- Denotes Group II Channelizing Devices
- Denotes Temporary Concrete Barrier
- Denotes TL-3, Type I Impact Attenuator
- Denotes Type III Barricade (Incl. R5-1 "Do Not Enter" Sign)

Note: Legend items shown in grey denote previous phase work/placement.

Temporary Pavement Marking Legend

(A) White, 4" Width, Solid Line	(M) Yellow, 4" Width, Solid Line
(B) White, 6" Width, Solid Line	(N) Yellow, 6" Width, Solid Line
(C) White, 8" Width, Solid Line	(O) Yellow, 8" Width, Solid Line
(D) White, 12" Width, Solid Line	(P) Yellow, 12" Width, Solid Line
(E) White, 24" Width, Solid Line	(Q) Yellow, 4" Width, 2' Long, 6" Space
(F) White, 4" Width, 2' Long, 6" Space	(R) Yellow, 4" Width, Double Line
(G) White, 4" Width, 10' Long, 30' Space	(S) Yellow, 6" Width, Double Line
(H) White, 6" Width, 3' Long, 9' Space	(T) Yellow, 24" Width @ 45'
(I) White, 6" Width, 10' Long, 30' Space	(U) White, Pav. Mark. Sym./Mess.
(J) White, 8" Width, 3' Long, 9' Space	(V) White, 8" Width, 3' Long, 12' Space
(K) White, 8" Width, 10' Long, 30' Space	(W) Type E Removable Black Tape
(L) White, Yield Marking	(X) Existing Pavement Marking

Note: Temporary, raised pavement markers shall be installed in accordance with the VMAP.

NOTE:
SEE SHEET 22 FOR RIGHT-OF-WAY LEGEND.

APPROVED FOR CONSTRUCTION

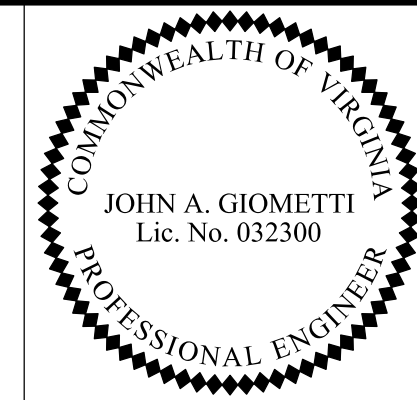
SCALE 0 50' 100'

VDOT PROJECT NO. 0495-029-419	SHEET NO. IP(17) AREA 4
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NOVA DISTRICT

PROJECT MANAGER_VDOT - Rita Pal-Straub, PE, (703) 259-2362
SURVEYED BY, DATE_RDA - Nicholas Kaugaulis, LS, (703) 334-0837, 1/2019
DESIGN BY_RDA - Darrell Fischer, PE, (703) 334-0823
SUBSURFACE UTILITY BY, DATE_Accumark - Michael Taylor, LS, (703) 635-3060, 12/2021

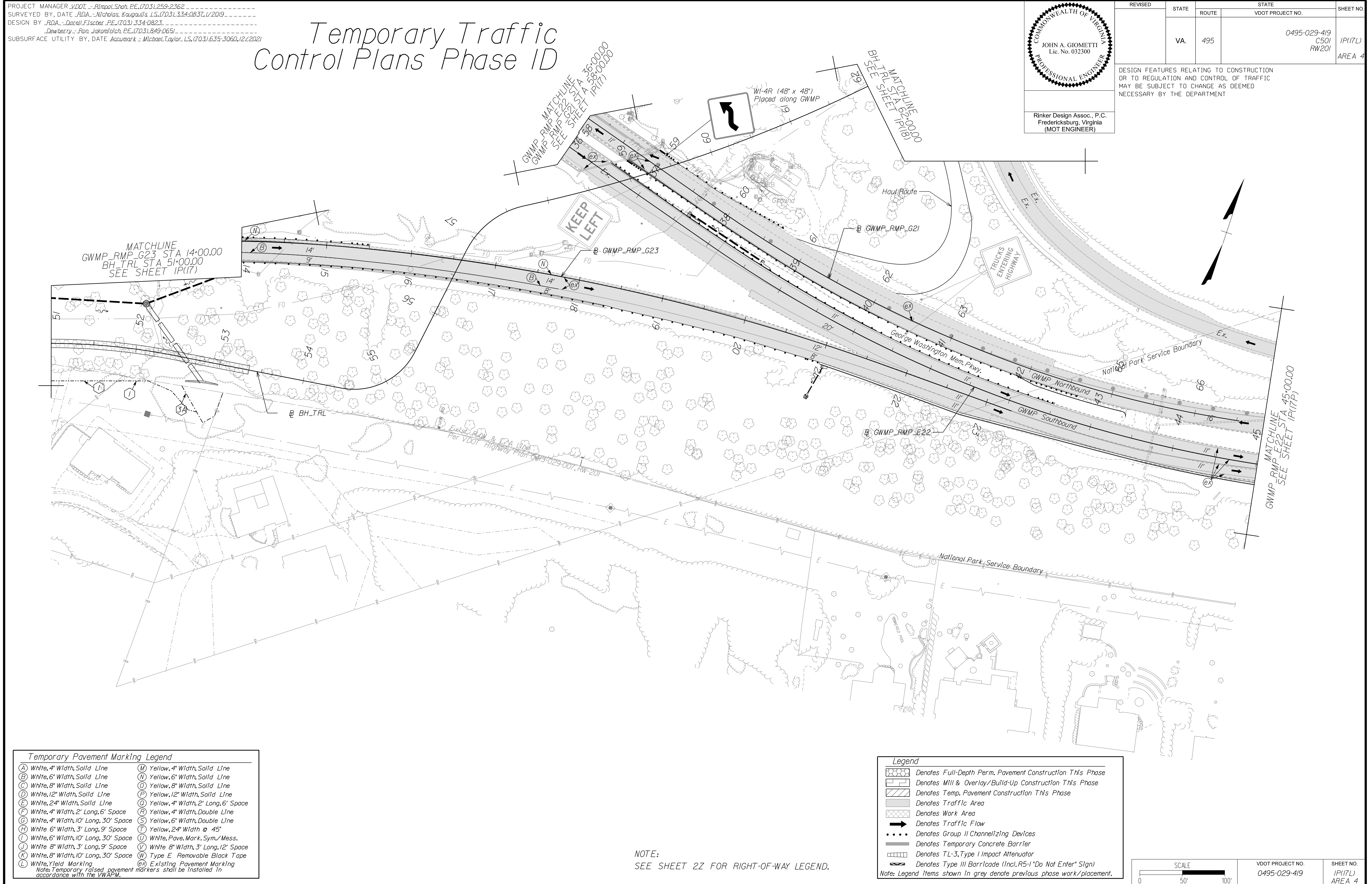
Temporary Traffic Control Plans Phase ID



Rinker Design Assoc., P.C.
Fredericksburg, Virginia
(MOT ENGINEER)

REVISED	STATE	ROUTE	STATE	VDOT PROJECT NO.	SHEET NO.
	VA.	495		0495-029-419 C501 RW201	1P(17L) AREA 4

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



NOVA DISTRICT

Temporary Pavement Marking Legend

(A) White, 4" Width, Solid Line	(M) Yellow, 4" Width, Solid Line
(B) White, 6" Width, Solid Line	(N) Yellow, 6" Width, Solid Line
(C) White, 8" Width, Solid Line	(O) Yellow, 8" Width, Solid Line
(D) White, 12" Width, Solid Line	(P) Yellow, 12" Width, Solid Line
(E) White, 24" Width, Solid Line	(Q) Yellow, 4" Width, 2' Long, 6' Space
(F) White, 4" Width, 2' Long, 6' Space	(R) Yellow, 4" Width, Double Line
(G) White, 4" Width, 10' Long, 30' Space	(S) Yellow, 6" Width, Double Line
(H) White, 6" Width, 3' Long, 9' Space	(T) Yellow, 24" Width @ 45°
(J) White, 6" Width, 10' Long, 30' Space	(U) White, Pavement Marking, Sym./Mess.
(K) White, 8" Width, 3' Long, 9' Space	(V) White, 8" Width, 3' Long, 12' Space
(L) White, 8" Width, 10' Long, 30' Space	(W) Type E Removable Black Tape
(X) White, Yield Marking	(@) Existing Pavement Marking

Note: Temporary raised pavement markers shall be installed in accordance with the VWAPM.

Legend

- Denotes Full-Depth Perm. Pavement Construction This Phase
- Denotes Mill & Overlay/Build-Up Construction This Phase
- Denotes Temp. Pavement Construction This Phase
- Denotes Traffic Area
- Denotes Work Area
- Denotes Traffic Flow
- Denotes Group II Channelizing Devices
- Denotes Temporary Concrete Barrier
- Denotes TL-3, Type I Impact Attenuator
- Denotes Type III Barricade (Incl. R5-1 "Do Not Enter" Sign)

Note: Legend items shown in grey denote previous phase work/placement.

NOTE:
SEE SHEET 2Z FOR RIGHT-OF-WAY LEGEND.

SCALE 0 50' 100'	VDOT PROJECT NO. 0495-029-419	SHEET NO. 1P(17L) AREA 4
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APPROVED FOR CONSTRUCTION

PROJECT MANAGER VDOT - Rupal Shah, PE, (703) 259-2362
SURVEYED BY, DATE RDA - Nicholas Kaugaulis, LS, (703) 334-0837, 1/2019
DESIGN BY RDA - Darrell Fischer, PE, (703) 334-0823
SUBSURFACE UTILITY BY, DATE Accumark - Michael Taylor, LS, (703) 635-3060, 12/2021

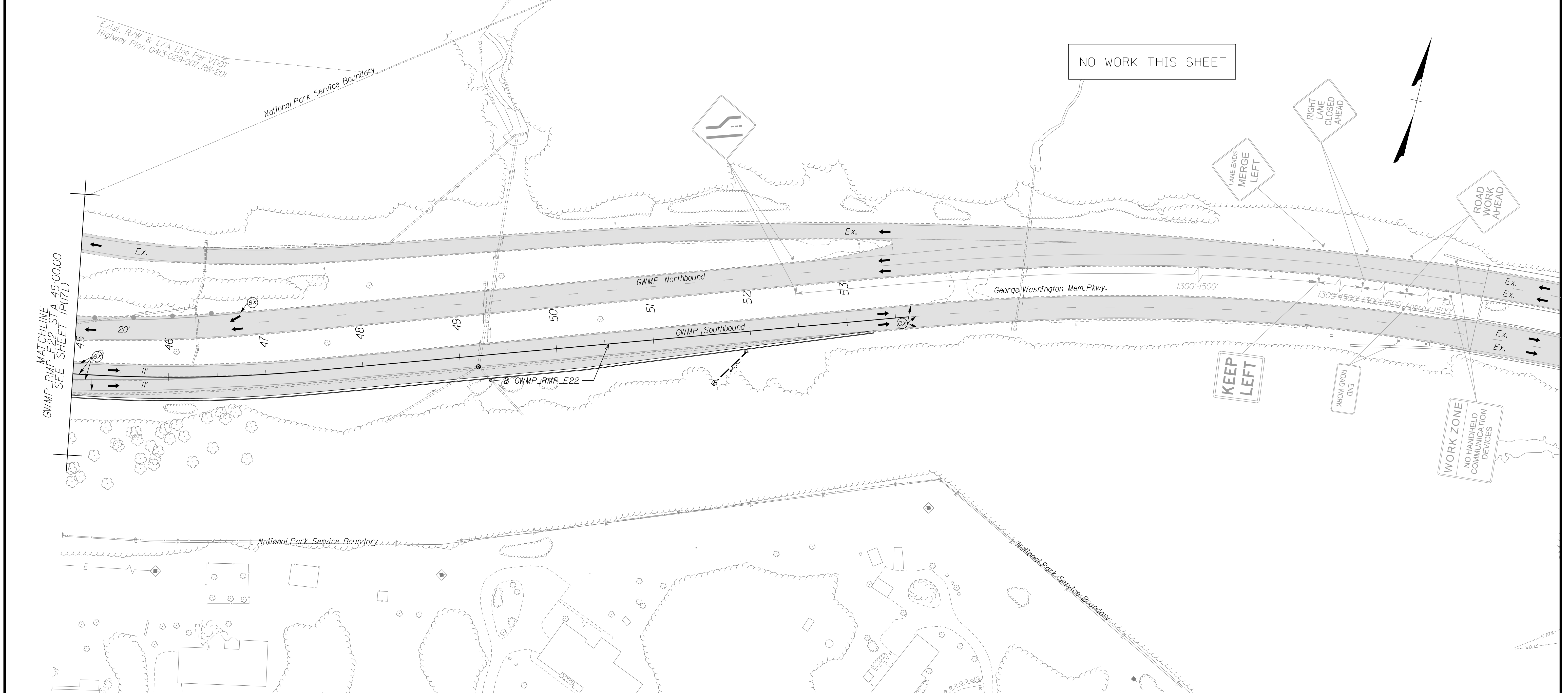
Temporary Traffic Control Plans Phase ID

COMMONWEALTH OF VIRGINIA
PROFESSIONAL ENGINEER
JOHN A. GIOMETTI
Lic. No. 032300

Rinker Design Assoc., P.C.
Fredericksburg, Virginia
(MOT ENGINEER)

REVISED	STATE	ROUTE	STATE	VDOT PROJECT NO.	SHEET NO.
	VA.	495		0495-029-419 C501 RW201	1P(17P) AREA 4

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



Temporary Pavement Marking Legend

(A) White, 4" Width, Solid Line	(M) Yellow, 4" Width, Solid Line
(B) White, 6" Width, Solid Line	(N) Yellow, 6" Width, Solid Line
(C) White, 8" Width, Solid Line	(O) Yellow, 8" Width, Solid Line
(D) White, 12" Width, Solid Line	(P) Yellow, 12" Width, Solid Line
(E) White, 24" Width, Solid Line	(Q) Yellow, 4" Width, 2' Long, 6' Space
(F) White, 4" Width, 2' Long, 6' Space	(R) Yellow, 4" Width, Double Line
(G) White, 4" Width, 10' Long, 30' Space	(S) Yellow, 6" Width, Double Line
(H) White, 6" Width, 3' Long, 9' Space	(T) Yellow, 24" Width @ 45°
(I) White, 6" Width, 10' Long, 30' Space	(U) White, Pav. Mark. Sym./Mess.
(J) White, 8" Width, 3' Long, 9' Space	(V) White, 8" Width, 3' Long, 12' Space
(K) White, 8" Width, 10' Long, 30' Space	(W) Type E Removable Black Tape
(L) White, Yield Marking	(X) Existing Pavement Marking

Note: Temporary raised pavement markers shall be installed in accordance with the VWAPM.

Legend

- Denotes Full-Depth Perm. Pavement Construction This Phase
- Denotes Mill & Overlay/Build-Up Construction This Phase
- Denotes Temp. Pavement Construction This Phase
- Denotes Traffic Area
- Denotes Work Area
- Denotes Traffic Flow
- Denotes Group II Channelizing Devices
- Denotes Temporary Concrete Barrier
- Denotes TL-3, Type I Impact Attenuator
- Denotes Type III Barricade (Incl. R5-1 "Do Not Enter" Sign)

Note: Legend items shown in grey denote previous phase work/placement.

NOTE:
SEE SHEET 22 FOR RIGHT-OF-WAY LEGEND.

SCALE 0 50' 100'

VDOT PROJECT NO. 0495-029-419 SHEET NO. 1P(17P) AREA 4

APPROVED FOR CONSTRUCTION

NOVA DISTRICT

PROJECT MANAGER_VDOT - Rita Pal-Straub, PE, (703) 259-2362
 SURVEYED BY, DATE_RDA - Nicholas Kaugaulis, LS, (703) 334-0837, 1/2019
 DESIGN BY_RDA - Darrell Fischer, PE, (703) 334-0823
 SUBSURFACE UTILITY BY, DATE_Accurmark - Michael Taylor, LS, (703) 635-3060, 12/2021

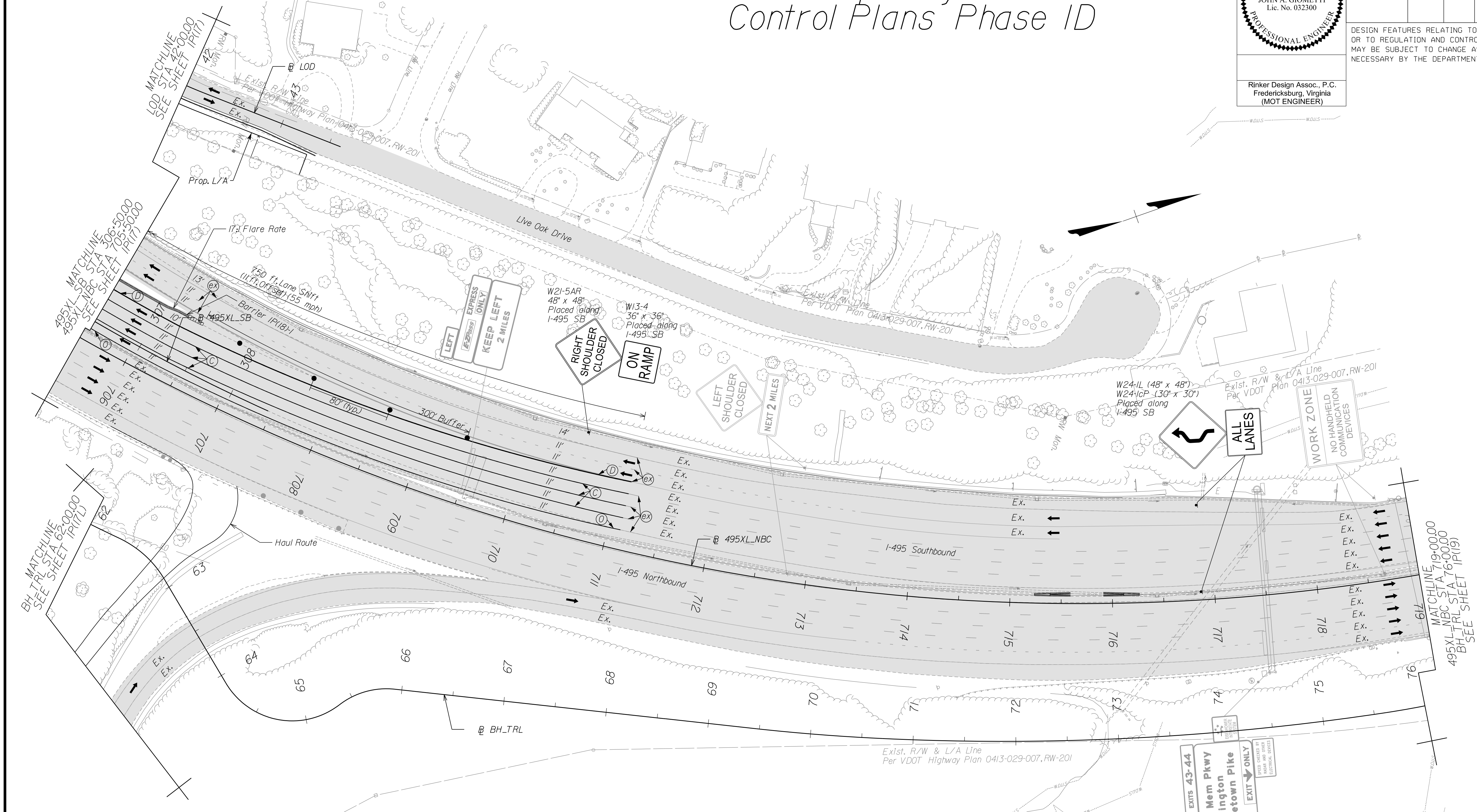
Temporary Traffic Control Plans Phase ID

COMMONWEALTH OF VIRGINIA
 JOHN A. GIOMETTI
 Lic. No. 032300
 PROFESSIONAL ENGINEER

Rinker Design Assoc., P.C.
 Fredericksburg, Virginia
 (MOT ENGINEER)

REVISED	STATE	ROUTE	STATE	VDOT PROJECT NO.	SHEET NO.
	VA.	495		0495-029-419 C501 RW201	1P(18) AREA 4

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



Temporary Pavement Marking Legend

(A) White, 4" Width, Solid Line	(M) Yellow, 4" Width, Solid Line
(B) White, 6" Width, Solid Line	(N) Yellow, 6" Width, Solid Line
(C) White, 8" Width, Solid Line	(O) Yellow, 8" Width, Solid Line
(D) White, 12" Width, Solid Line	(P) Yellow, 12" Width, Solid Line
(E) White, 24" Width, Solid Line	(Q) Yellow, 4" Width, 2' Long, 6' Space
(F) White, 4" Width, 2' Long, 6' Space	(R) Yellow, 4" Width, Double Line
(G) White, 4" Width, 10' Long, 30' Space	(S) Yellow, 6" Width, Double Line
(H) White, 6" Width, 3' Long, 9' Space	(T) Yellow, 24" Width @ 45°
(I) White, 6" Width, 10' Long, 30' Space	(U) White, Pavement Mark. Sym./Mess.
(J) White, 8" Width, 3' Long, 9' Space	(V) White, 8" Width, 3' Long, 12' Space
(K) White, 8" Width, 10' Long, 30' Space	(W) Type E Removable Black Tape
(L) White, Yield Marking	(X) Existing Pavement Marking

Note: Temporary raised pavement markers shall be installed in accordance with the VMAPM.

Legend

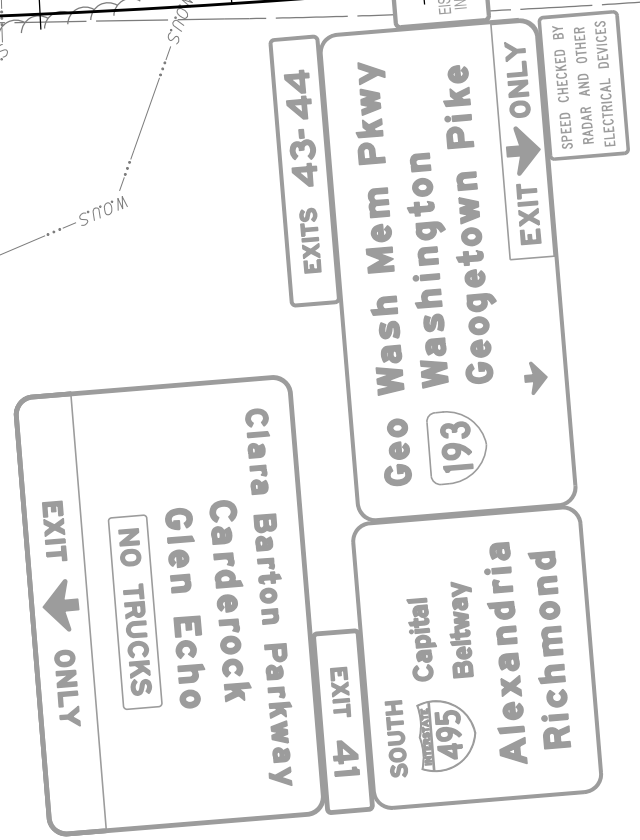
[Pattern]	Denotes Full-Depth Perm. Pavement Construction This Phase
[Pattern]	Denotes Mill & Overlay/Build-Up Construction This Phase
[Pattern]	Denotes Temp. Pavement Construction This Phase
[Pattern]	Denotes Traffic Area
[Pattern]	Denotes Work Area
[Arrow]	Denotes Traffic Flow
[Dotted]	Denotes Group II Channelizing Devices
[Line]	Denotes Temporary Concrete Barrier
[Symbol]	Denotes TL-3, Type I Impact Attenuator
[Symbol]	Denotes Type III Barricade (Incl. R5-1 "Do Not Enter" Sign)

Note: Legend items shown in grey denote previous phase work/placement.

TEMPORARY BARRIER TABLE (LENGTHS ARE APPROXIMATE)

NAME	BL	BEGIN		END	
		STATION	OFFSET	STATION	OFFSET
1P(18) -1	495XL_SB	SEE SHEET 1P(16)	307+39	50.49' LT	

NOTE:
SEE SHEET 22 FOR RIGHT-OF-WAY LEGEND.



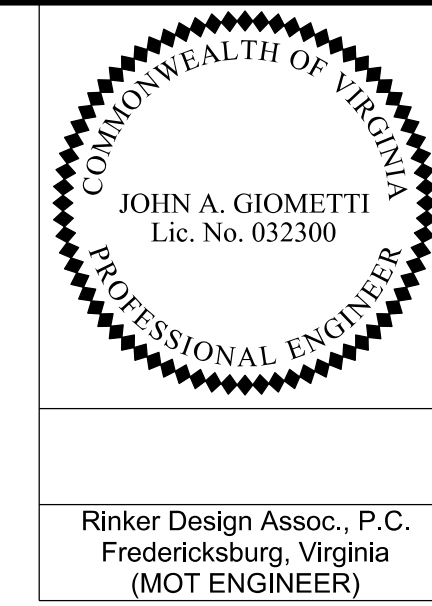
SCALE 0 50' 100'

VDOT PROJECT NO. 0495-029-419	SHEET NO. 1P(18) AREA 4
----------------------------------	-------------------------------

APPROVED FOR CONSTRUCTION

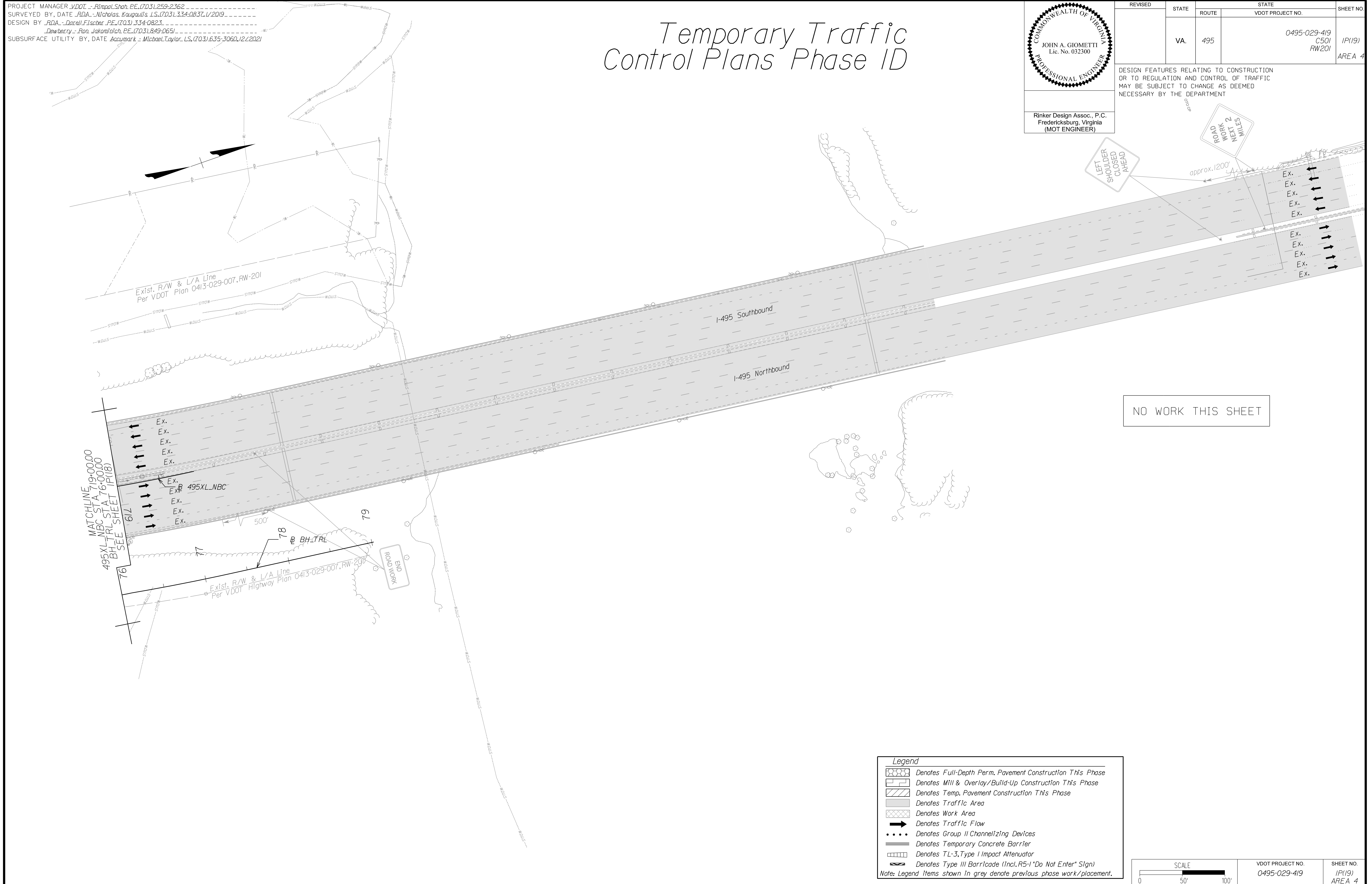
PROJECT MANAGER VDOT - Rupal Shah, PE, (703) 259-2362
SURVEYED BY, DATE RDA - Nicholas Kougoullis, LS, (703) 334-0837, 1/2019
DESIGN BY RDA - Darrell Fischer, PE, (703) 334-0823
SUBSURFACE UTILITY BY, DATE Accumark - Michael Taylor, LS, (703) 635-3060, 12/2021

Temporary Traffic Control Plans Phase ID



REVISED	STATE	ROUTE	STATE	VDOT PROJECT NO.	SHEET NO.
	VA.	495		0495-029-419 C501 RW201	1P(19) AREA 4

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



MATCHLINE
495XL-NBC STA 719+00.00
495XL-NBC STA 76+00.00
BH-TRL SEE SHEET 1P(18)

76
77
78
79

Ex.
Ex.
Ex.
Ex.
Ex.

Ex.
Ex. 495XL-NBC
Ex.
Ex.
Ex.

500'

BH-TRL

500'

500'

500'

500'

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500'

Legend

- Denotes Full-Depth Perm. Pavement Construction This Phase
- Denotes Mill & Overlay/Build-Up Construction This Phase
- Denotes Temp. Pavement Construction This Phase
- Denotes Traffic Area
- Denotes Work Area
- Denotes Traffic Flow
- Denotes Group II Channelizing Devices
- Denotes Temporary Concrete Barrier
- Denotes TL-3, Type I Impact Attenuator
- Denotes Type III Barricade (Incl. R5-1 "Do Not Enter" Sign)

Note: Legend Items shown in grey denote previous phase work/placement.

SCALE 0 50' 100'

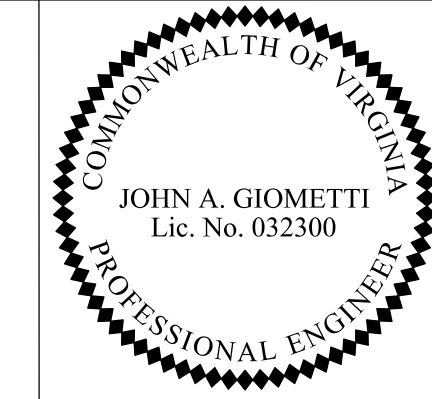
VDOT PROJECT NO. 0495-029-419 SHEET NO. 1P(19) AREA 4

APPROVED FOR CONSTRUCTION

NOVA DISTRICT

PROJECT MANAGER_VDOT - Rupal Shah, PE, (703) 259-2362
 SURVEYED BY, DATE_RDA - Nicholas Kougoullis, LS, (703) 334-0837, 1/2019
 DESIGN BY_RDA - Darrell Fischer, PE, (703) 334-0823
 SUBSURFACE UTILITY BY, DATE_Accurmark - Michael Taylor, LS, (703) 635-3060, 12/2021

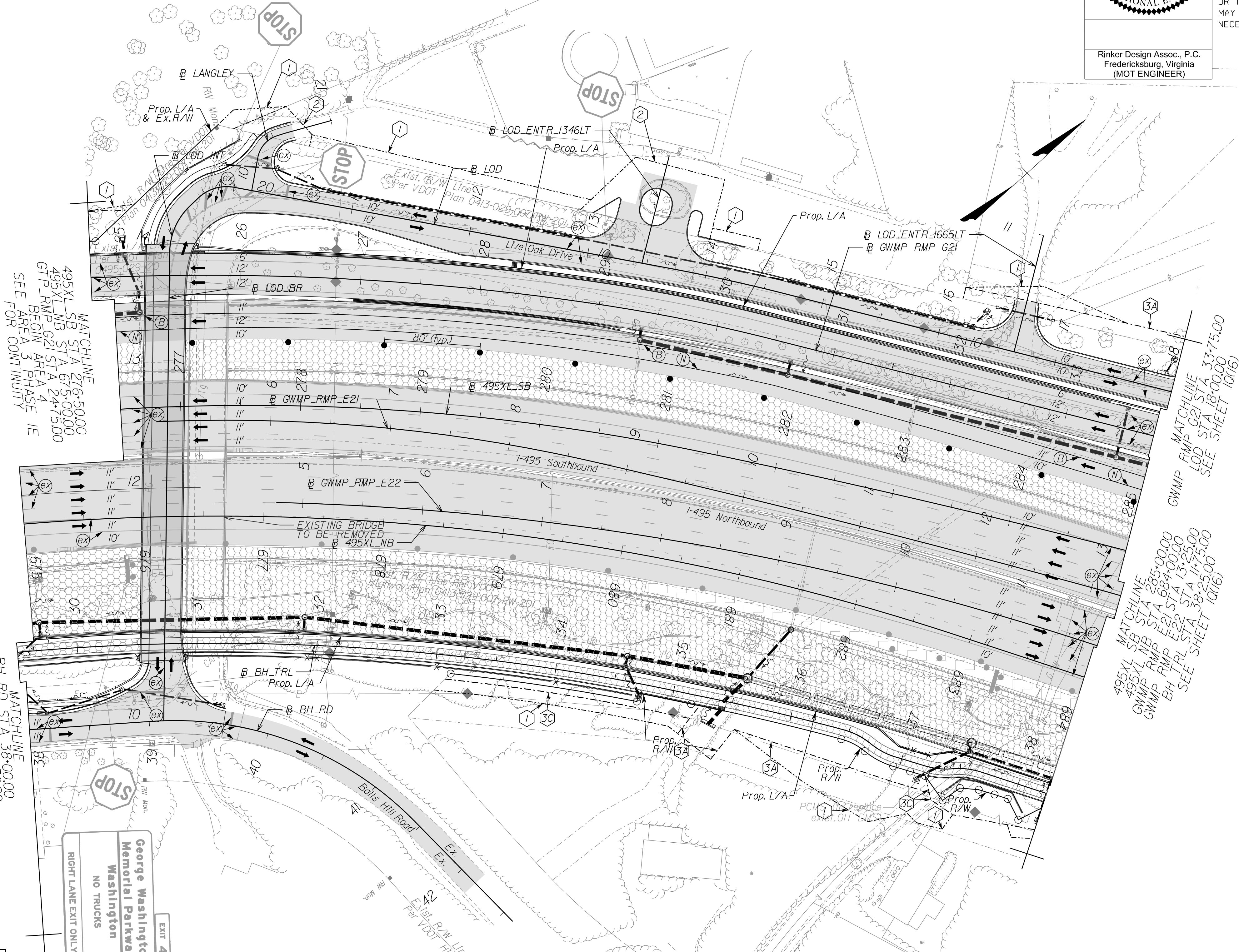
Temporary Traffic Control Plans Phase 1E



Rinker Design Assoc., P.C.
 Fredericksburg, Virginia
 (MOT ENGINEER)

REVISED	STATE	ROUTE	STATE	VDOT PROJECT NO.	SHEET NO.
	VA	495		0495-029-419 C501 RW201	10(15) AREA 4

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



MATCHLINE
 495XL-SB STA 276+50.00
 495XL-NB STA 275+00.00
 GTP_RMP_G21 STA 247+50.00
 BEGIN AREA 3 PHASE 1E
 SEE FOR CONTINUITY

MATCHLINE
 BH_TRL STA 38+00.00
 BH_RD STA 29+50.00
 BEGIN AREA 4 PHASE 1E
 SEE FOR CONTINUITY

MATCHLINE
 GWMP_RMP_G21 STA 33+75.00
 LOD STA 18+00.00
 SEE SHEET 10(16)

MATCHLINE
 495XL-SB STA 285+00.00
 495XL-NB STA 284+00.00
 GWMP_RMP_E22 STA 13+25.00
 BH_TRL STA 38+25.00
 SEE SHEET 10(16)

RIGHT LANE EXIT ONLY
 George Washington Memorial Parkway
 Washington
 NO TRUCKS
 EXIT 43

Temporary Pavement Marking Legend

(A) White, 4" Width, Solid Line	(M) Yellow, 4" Width, Solid Line
(B) White, 6" Width, Solid Line	(N) Yellow, 6" Width, Solid Line
(C) White, 8" Width, Solid Line	(O) Yellow, 8" Width, Solid Line
(D) White, 12" Width, Solid Line	(P) Yellow, 12" Width, Solid Line
(E) White, 24" Width, Solid Line	(Q) Yellow, 4" Width, 2' Long, 6' Space
(F) White, 4" Width, 2' Long, 6' Space	(R) Yellow, 4" Width, Double Line
(G) White, 4" Width, 10' Long, 30' Space	(S) Yellow, 6" Width, Double Line
(H) White, 6" Width, 3' Long, 9' Space	(T) Yellow, 24" Width @ 45°
(I) White, 6" Width, 10' Long, 30' Space	(U) White, Pavement Marking, Sym./Mess.
(J) White, 8" Width, 3' Long, 9' Space	(V) White, 8" Width, 3' Long, 12' Space
(K) White, 8" Width, 10' Long, 30' Space	(W) Type E, Removable Black Tape
(L) White, Yield Marking	(X) Existing Pavement Marking

Note: Temporary raised pavement markers shall be installed in accordance with the VMAP.

Legend

[Pattern]	Denotes Full-Depth Perm. Pavement Construction This Phase
[Pattern]	Denotes Mill & Overlay/Build-Up Construction This Phase
[Pattern]	Denotes Temp. Pavement Construction This Phase
[Pattern]	Denotes Traffic Area
[Pattern]	Denotes Work Area
[Arrow]	Denotes Traffic Flow
[Dotted]	Denotes Group II Channelizing Devices
[Line]	Denotes Temporary Concrete Barrier
[Symbol]	Denotes TL-3, Type I Impact Attenuator
[Symbol]	Denotes Type III Barricade (Incl. R5-1 "Do Not Enter" Sign)

Note: Legend items shown in grey denote previous phase work/placement.

NOTE:
 SEE SHEET 2Z FOR RIGHT-OF-WAY LEGEND.

SCALE 0 50' 100'	VDOT PROJECT NO. 0495-029-419	SHEET NO. 10(15) AREA 4
---------------------	----------------------------------	-------------------------------

APPROVED FOR CONSTRUCTION

NOVA DISTRICT

10/26/2022

PROJECT MANAGER VDOT - Rupal Shah, P.E. (703) 259-2362
SURVEYED BY, DATE RDA - Nicholas Kaugaulis, LS (703) 334-0837, 1/2019
DESIGN BY RDA - Darrell Fischer, P.E. (703) 334-0823
SUBSURFACE UTILITY BY, DATE Accurark - Michael Taylor, LS (703) 635-3060, 12/2021



REVISED	STATE	ROUTE	STATE	VDOT PROJECT NO.	SHEET NO.
	VA	495		0495-029-419 C501 RW201	10(16) AREA 4

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

Rinker Design Assoc., P.C.
Fredericksburg, Virginia
(MOT ENGINEER)

NAME	BL	BEGIN		END	
		STATION	OFFSET	STATION	OFFSET
1Q(16)-1	495XL_SB	286+51	59.17' LT	SEE SHEET 1Q(17)	
1Q(16)-2	495XL_SB	292+96	2.08' LT	294+00	12.08' RT

Temporary Traffic Control Plans Phase 1E

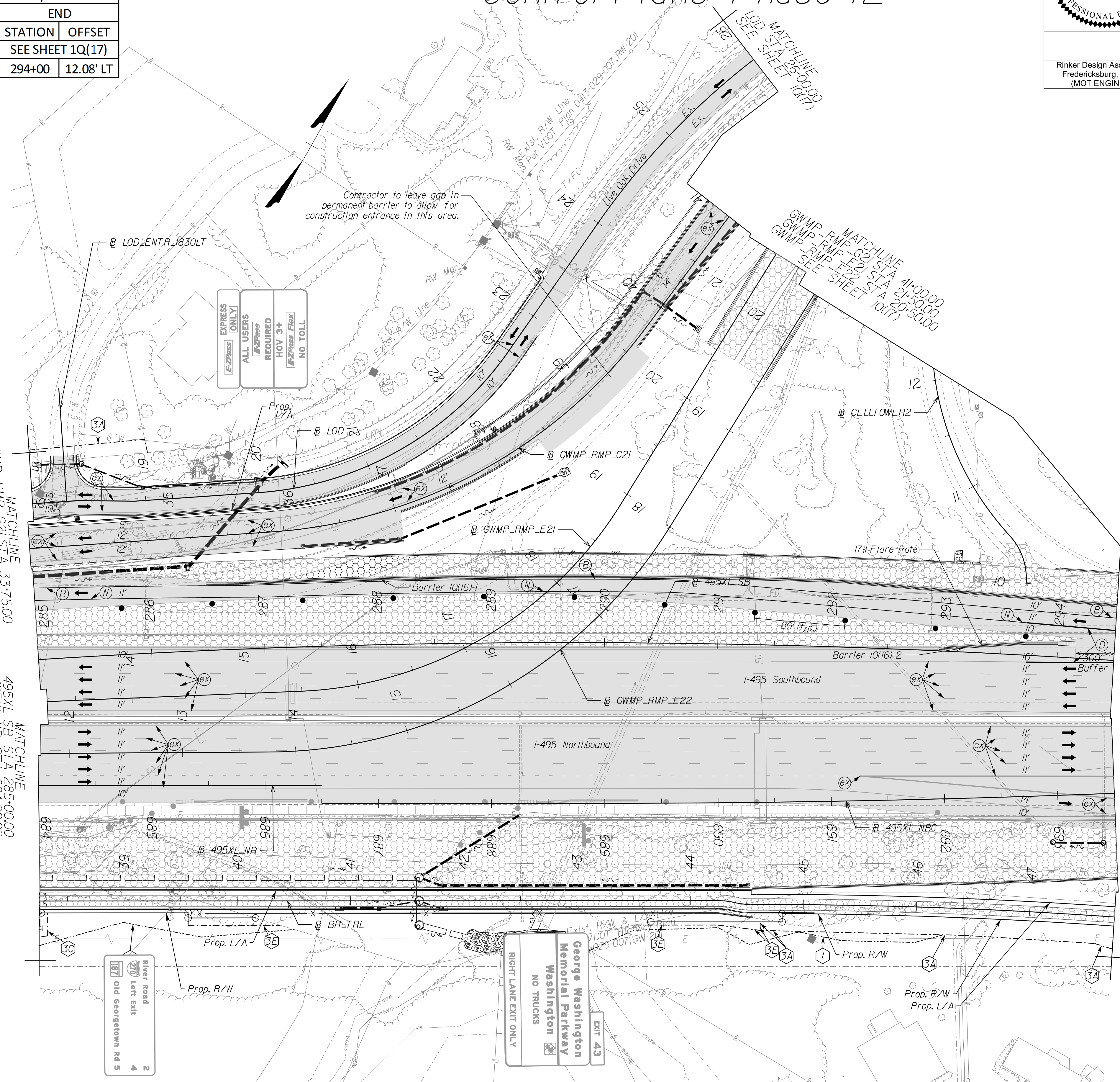
(A) White, 4" Width, Solid Line	(M) Yellow, 4" Width, Solid Line
(B) White, 6" Width, Solid Line	(N) Yellow, 6" Width, Solid Line
(C) White, 8" Width, Solid Line	(O) Yellow, 8" Width, Solid Line
(D) White, 12" Width, Solid Line	(P) Yellow, 12" Width, Solid Line
(E) White, 24" Width, Solid Line	(Q) Yellow, 4" Width, 2' Long, 6' Space
(F) White, 4" Width, 2' Long, 6' Space	(R) Yellow, 4" Width, Double Line
(G) White, 4" Width, 10' Long, 30' Space	(S) Yellow, 6" Width, Double Line
(H) White, 6" Width, 3' Long, 9' Space	(T) Yellow, 24" Width @ 45°
(I) White, 6" Width, 10' Long, 30' Space	(U) White, Pav. Mark. Sym./Mess.
(J) White, 8" Width, 3' Long, 9' Space	(V) White, 8" Width, 3' Long, 12' Space
(K) White, 8" Width, 10' Long, 30' Space	(W) Type E Removable Black Tape
(L) White, Yield Marking	(X) Existing Pavement Marking

Note: Temporary, raised pavement markers shall be installed in accordance with the VMAP.

[Pattern]	Denotes Full-Depth Perm. Pavement Construction This Phase
[Pattern]	Denotes Mill & Overlay/Build-Up Construction This Phase
[Pattern]	Denotes Temp. Pavement Construction This Phase
[Pattern]	Denotes Traffic Area
[Pattern]	Denotes Work Area
[Arrow]	Denotes Traffic Flow
[Dotted]	Denotes Group II Channelizing Devices
[Line]	Denotes Temporary Concrete Barrier
[Symbol]	Denotes TL-3, Type I Impact Attenuator
[Symbol]	Denotes Type III Barricade (Incl. R5-1 "Do Not Enter" Sign)

Note: Legend items shown in grey denote previous phase work/placement.

NOTE:
SEE SHEET 2Z FOR RIGHT-OF-WAY LEGEND.



NOVA DISTRICT

10/26/2022

APPROVED FOR CONSTRUCTION

SCALE 0 50' 100'	VDOT PROJECT NO. 0495-029-419	SHEET NO. 10(16) AREA 4
---------------------	----------------------------------	-------------------------------

PROJECT MANAGER_VDOT - Rupal Shah, PE, (703) 259-2362
 SURVEYED BY, DATE_RDA - Nicholas Kaugall's LS, (703) 334-0837, 1/2019
 DESIGN BY_RDA - Darrell Fischer, PE, (703) 334-0823
 SUBSURFACE UTILITY BY, DATE_Accurmark - Michael Taylor, LS, (703) 635-3060, 1/2/2021

JOHN A. GIOMETTI
 Lic. No. 032300

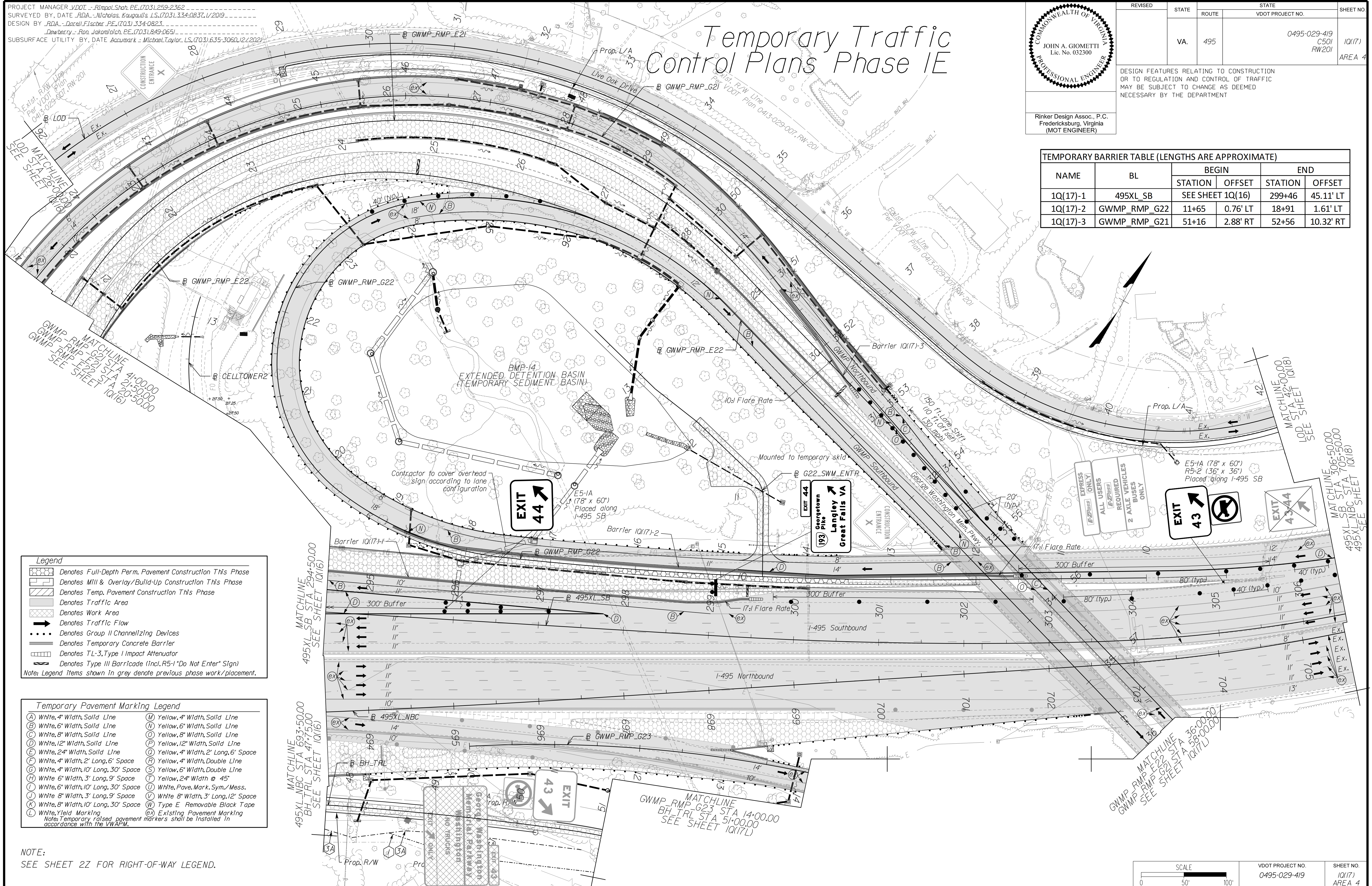
Rinker Design Assoc., P.C.
 Fredericksburg, Virginia
 (MOT ENGINEER)

REVISED	STATE	ROUTE	STATE	VDOT PROJECT NO.	SHEET NO.
	VA	495		0495-029-419 C501 RW201	10(17) AREA 4

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

Temporary Traffic Control Plans Phase 1E

NAME	BL	BEGIN		END	
		STATION	OFFSET	STATION	OFFSET
1Q(17)-1	495XL_SB	SEE SHEET 1Q(16)		299+46	45.11' LT
1Q(17)-2	GWMP_RMP_G22	11+65	0.76' LT	18+91	1.61' LT
1Q(17)-3	GWMP_RMP_G21	51+16	2.88' RT	52+56	10.32' RT



Legend

- Denotes Full-Depth Perm. Pavement Construction This Phase
- Denotes Mill & Overlay/Build-Up Construction This Phase
- Denotes Temp. Pavement Construction This Phase
- Denotes Traffic Area
- Denotes Work Area
- Denotes Traffic Flow
- Denotes Group II Channelizing Devices
- Denotes Temporary Concrete Barrier
- Denotes TL-3, Type I Impact Attenuator
- Denotes Type III Barricade (Incl. R5-1 "Do Not Enter" Sign)

Note: Legend items shown in grey denote previous phase work/placement.

Temporary Pavement Marking Legend

(A) White, 4" Width, Solid Line	(M) Yellow, 4" Width, Solid Line
(B) White, 6" Width, Solid Line	(N) Yellow, 6" Width, Solid Line
(C) White, 8" Width, Solid Line	(O) Yellow, 8" Width, Solid Line
(D) White, 12" Width, Solid Line	(P) Yellow, 12" Width, Solid Line
(E) White, 24" Width, Solid Line	(Q) Yellow, 4" Width, 2' Long, 6" Space
(F) White, 4" Width, 2' Long, 6" Space	(R) Yellow, 4" Width, Double Line
(G) White, 4" Width, 10' Long, 30' Space	(S) Yellow, 6" Width, Double Line
(H) White, 6" Width, 3' Long, 9" Space	(T) Yellow, 24" Width @ 45'
(I) White, 6" Width, 10' Long, 30' Space	(U) White, Pav. Mark. Sym./ Mess.
(J) White, 8" Width, 3' Long, 9" Space	(V) White, 8" Width, 3' Long, 12" Space
(K) White, 8" Width, 10' Long, 30' Space	(W) Type E Removable Black Tape
(L) White, Yield Marking	(X) Existing Pavement Marking

Note: Temporary, raised pavement markers shall be installed in accordance with the VMAP.

NOTE:
 SEE SHEET 22 FOR RIGHT-OF-WAY LEGEND.

SCALE 0 50' 100'

VDOT PROJECT NO. 0495-029-419	SHEET NO. 10(17) AREA 4
----------------------------------	-------------------------------

APPROVED FOR CONSTRUCTION

NOVA DISTRICT

PROJECT MANAGER_VDOT - Rita Pal-Straub, PE, (703) 259-2362
SURVEYED BY, DATE_RDA - Nicholas Kougoullis, LS, (703) 334-0837, 1/2019
DESIGN BY_RDA - Darrell Fischer, PE, (703) 334-0823
SUBSURFACE UTILITY BY, DATE_Accumark - Michael Taylor, LS, (703) 635-3060, 12/2020

Temporary Traffic Control Plans Phase 1E

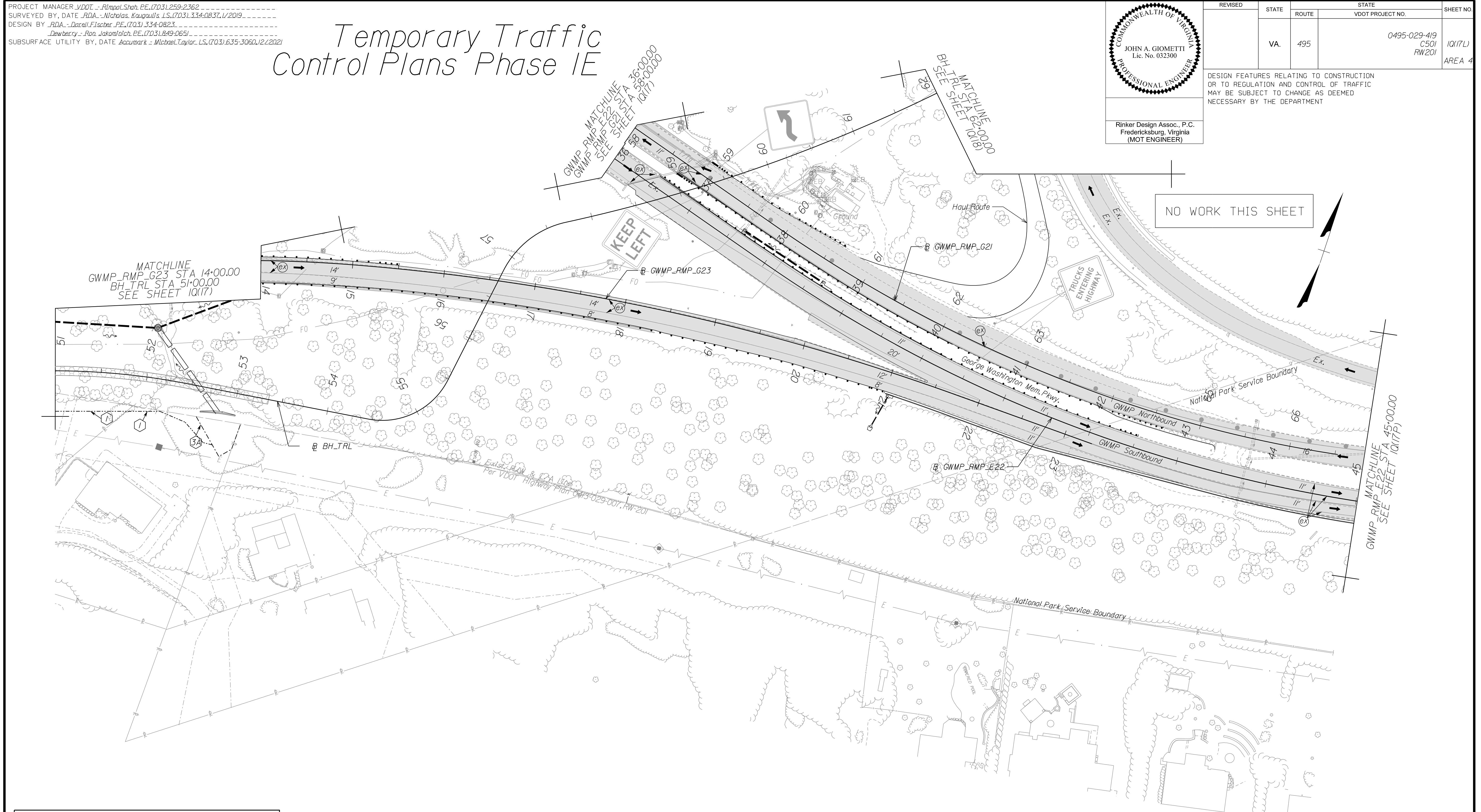
COMMONWEALTH OF VIRGINIA
JOHN A. GIOMETTI
Lic. No. 032300
PROFESSIONAL ENGINEER

Rinker Design Assoc., P.C.
Fredericksburg, Virginia
(MOT ENGINEER)

REVISED	STATE	ROUTE	STATE	VDOT PROJECT NO.	SHEET NO.
	VA.	495		0495-029-419 C501 RW201	10(17L) AREA 4

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

NO WORK THIS SHEET



NOVA DISTRICT

Temporary Pavement Marking Legend

(A) White, 4" Width, Solid Line	(M) Yellow, 4" Width, Solid Line
(B) White, 6" Width, Solid Line	(N) Yellow, 6" Width, Solid Line
(C) White, 8" Width, Solid Line	(O) Yellow, 8" Width, Solid Line
(D) White, 12" Width, Solid Line	(P) Yellow, 12" Width, Solid Line
(E) White, 24" Width, Solid Line	(Q) Yellow, 4" Width, 2' Long, 6' Space
(F) White, 4" Width, 2' Long, 6' Space	(R) Yellow, 4" Width, Double Line
(G) White, 4" Width, 10' Long, 30' Space	(S) Yellow, 6" Width, Double Line
(H) White, 6" Width, 3' Long, 9' Space	(T) Yellow, 24" Width @ 45°
(J) White, 6" Width, 10' Long, 30' Space	(U) White, Pavement Marking, Sym./Mess.
(K) White, 8" Width, 3' Long, 9' Space	(V) White, 8" Width, 3' Long, 12' Space
(L) White, 8" Width, 10' Long, 30' Space	(W) Type E Removable Black Tape
(X) White, Yield Marking	(@) Existing Pavement Marking

Note: Temporary raised pavement markers shall be installed in accordance with the VWAPM.

NOTE:
SEE SHEET 2Z FOR RIGHT-OF-WAY LEGEND.

Legend

[Pattern]	Denotes Full-Depth Perm. Pavement Construction This Phase
[Pattern]	Denotes Mill & Overlay/Build-Up Construction This Phase
[Pattern]	Denotes Temp. Pavement Construction This Phase
[Pattern]	Denotes Traffic Area
[Pattern]	Denotes Work Area
[Pattern]	Denotes Traffic Flow
[Pattern]	Denotes Group II Channelizing Devices
[Pattern]	Denotes Temporary Concrete Barrier
[Pattern]	Denotes TL-3, Type I Impact Attenuator
[Pattern]	Denotes Type III Barricade (Incl. R5-1 "Do Not Enter" Sign)

Note: Legend items shown in grey denote previous phase work/placement.

SCALE: 0 50' 100'

VDOT PROJECT NO. 0495-029-419
SHEET NO. 10(17L)
AREA 4

APPROVED FOR CONSTRUCTION

PROJECT MANAGER VDOT - Rupal Shah, PE, (703) 259-2362
SURVEYED BY, DATE RDA - Nicholas Kougoullis, LS, (703) 334-0837, 1/2019
DESIGN BY RDA - Darrell Fischer, PE, (703) 334-0823
SUBSURFACE UTILITY BY, DATE Accumark - Michael Taylor, LS, (703) 635-3060, 12/2021

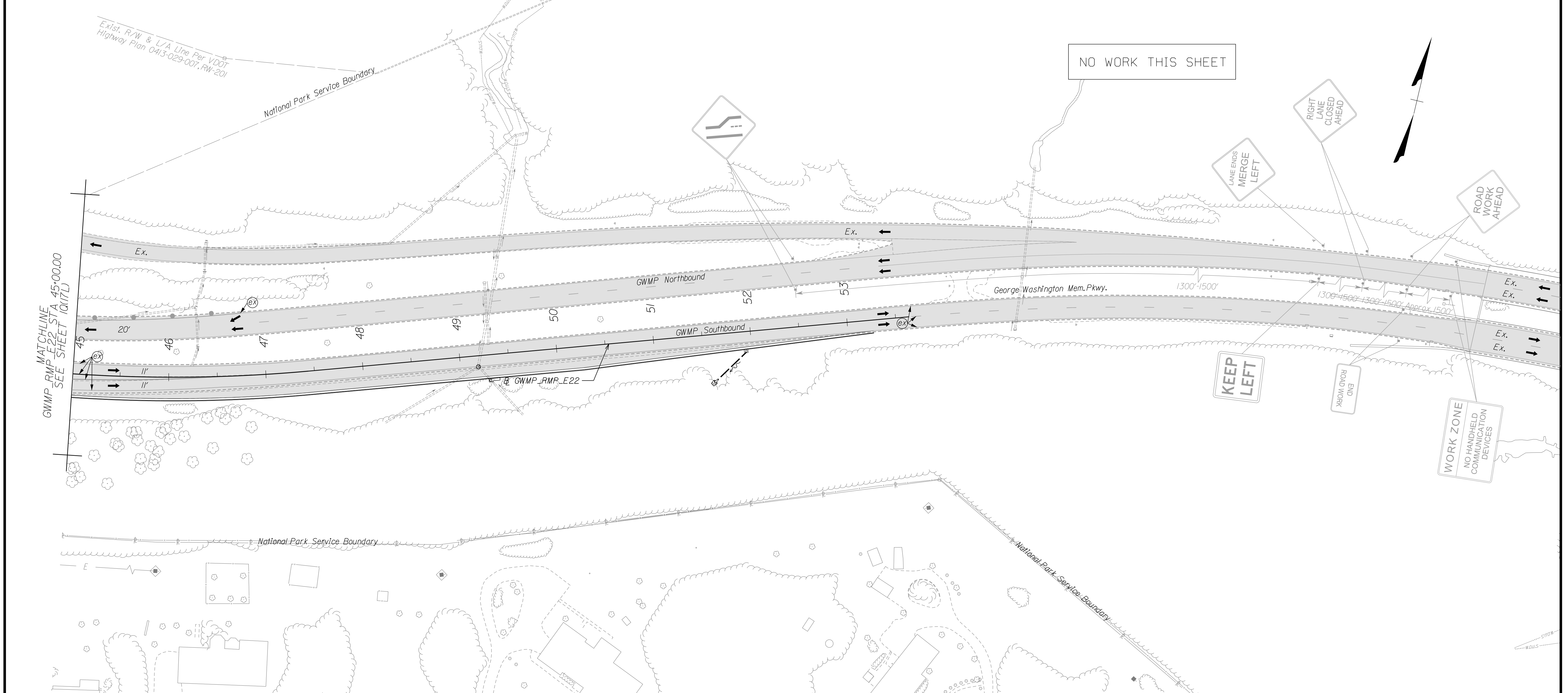
Temporary Traffic Control Plans Phase 1E

COMMONWEALTH OF VIRGINIA
 JOHN A. GIOMETTI
 Lic. No. 032300
 PROFESSIONAL ENGINEER

Rinker Design Assoc., P.C.
 Fredericksburg, Virginia
 (MOT ENGINEER)

REVISED	STATE	ROUTE	STATE	VDOT PROJECT NO.	SHEET NO.
	VA.	495		0495-029-419 C501 RW201	10(17P) AREA 4

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



NOVA DISTRICT

Temporary Pavement Marking Legend

(A) White, 4" Width, Solid Line	(M) Yellow, 4" Width, Solid Line
(B) White, 6" Width, Solid Line	(N) Yellow, 6" Width, Solid Line
(C) White, 8" Width, Solid Line	(O) Yellow, 8" Width, Solid Line
(D) White, 12" Width, Solid Line	(P) Yellow, 12" Width, Solid Line
(E) White, 24" Width, Solid Line	(Q) Yellow, 4" Width, 2' Long, 6' Space
(F) White, 4" Width, 2' Long, 6' Space	(R) Yellow, 4" Width, Double Line
(G) White, 4" Width, 10' Long, 30' Space	(S) Yellow, 6" Width, Double Line
(H) White, 6" Width, 3' Long, 9' Space	(T) Yellow, 24" Width @ 45°
(I) White, 6" Width, 10' Long, 30' Space	(U) White, Pavement Marking, Sym./Mess.
(J) White, 8" Width, 3' Long, 9' Space	(V) White, 8" Width, 3' Long, 12' Space
(K) White, 8" Width, 10' Long, 30' Space	(W) Type E Removable Black Tape
(L) White, Yield Marking	(X) Existing Pavement Marking

Note: Temporary raised pavement markers shall be installed in accordance with the VWAPM.

Legend

- Denotes Full-Depth Perm. Pavement Construction This Phase
- Denotes Mill & Overlay/Build-Up Construction This Phase
- Denotes Temp. Pavement Construction This Phase
- Denotes Traffic Area
- Denotes Work Area
- Denotes Traffic Flow
- Denotes Group II Channelizing Devices
- Denotes Temporary Concrete Barrier
- Denotes TL-3, Type I Impact Attenuator
- Denotes Type III Barricade (Incl. R5-1 "Do Not Enter" Sign)

Note: Legend items shown in grey denote previous phase work/placement.

NOTE:
SEE SHEET 2Z FOR RIGHT-OF-WAY LEGEND.

SCALE 0 50' 100'

VDOT PROJECT NO. 0495-029-419

SHEET NO. 10(17P) AREA 4

APPROVED FOR CONSTRUCTION

PROJECT MANAGER_VDOT - Rita Pal...
SURVEYED BY, DATE_RDA - Nicholas...
DESIGN BY_RDA - Darrell Fischer...
SUBSURFACE UTILITY BY, DATE_Accurmark - Michael Taylor...

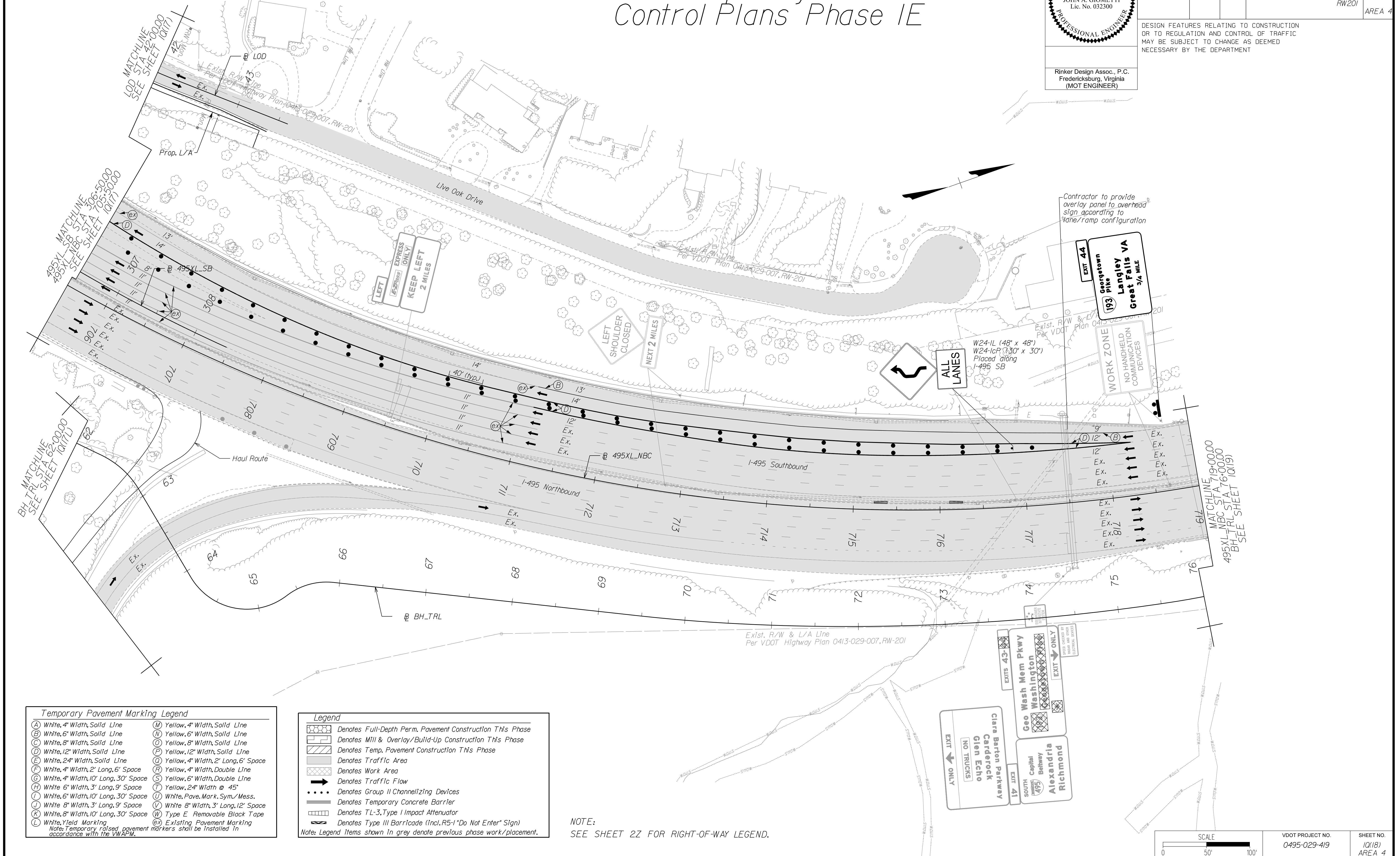
Temporary Traffic Control Plans Phase 1E

COMMONWEALTH OF VIRGINIA
JOHN A. GIOMETTI
 Lic. No. 032300
 PROFESSIONAL ENGINEER

Rinker Design Assoc., P.C.
 Fredericksburg, Virginia
 (MOT ENGINEER)

REVISED	STATE	ROUTE	STATE	VDOT PROJECT NO.	SHEET NO.
	VA.	495		0495-029-419 C501 RW201	10(18) AREA 4

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



Contractor to provide overlay panel to overhead sign according to lane/ramp configuration

EXIT 44
Georgetown Pike
193
Langley VA
Great Falls VA
3/4 MILE

WORK ZONE
NO HANDHELD COMMUNICATION DEVICES

EXIT 43
Goo Wash Mem Pkwy
Washington

EXIT 41
Capital Beltway
Alexandria
Richmond

EXIT ONLY
EXIT ONLY
EXIT ONLY

CLARA BARTON PARKWAY
GLEN ECHO
NO TRUCKS

Temporary Pavement Marking Legend

(A) White, 4" Width, Solid Line	(M) Yellow, 4" Width, Solid Line
(B) White, 6" Width, Solid Line	(N) Yellow, 6" Width, Solid Line
(C) White, 8" Width, Solid Line	(O) Yellow, 8" Width, Solid Line
(D) White, 12" Width, Solid Line	(P) Yellow, 12" Width, Solid Line
(E) White, 24" Width, Solid Line	(Q) Yellow, 4" Width, 2' Long, 6' Space
(F) White, 4" Width, 2' Long, 6' Space	(R) Yellow, 4" Width, Double Line
(G) White, 4" Width, 10' Long, 30' Space	(S) Yellow, 6" Width, Double Line
(H) White, 6" Width, 3' Long, 9' Space	(T) Yellow, 24" Width @ 45°
(I) White, 6" Width, 10' Long, 30' Space	(U) White, Pavement Mark. Sym./Mess.
(J) White, 8" Width, 3' Long, 9' Space	(V) White, 8" Width, 3' Long, 12' Space
(K) White, 8" Width, 10' Long, 30' Space	(W) Type E Removable Black Tape
(L) White, Yield Marking	(X) Existing Pavement Marking

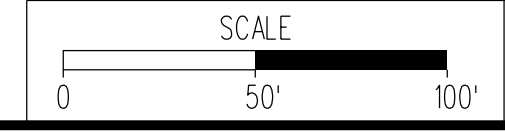
Note: Temporary raised pavement markers shall be installed in accordance with the VMAP.

Legend

[Pattern]	Denotes Full-Depth Perm. Pavement Construction This Phase
[Pattern]	Denotes Mill & Overlay/Build-Up Construction This Phase
[Pattern]	Denotes Temp. Pavement Construction This Phase
[Pattern]	Denotes Traffic Area
[Pattern]	Denotes Work Area
[Arrow]	Denotes Traffic Flow
[Dotted]	Denotes Group II Channellizing Devices
[Line]	Denotes Temporary Concrete Barrier
[Symbol]	Denotes TL-3, Type I Impact Attenuator
[Symbol]	Denotes Type III Barricade (Incl. R5-1 "Do Not Enter" Sign)

Note: Legend items shown in grey denote previous phase work/placement.

NOTE:
SEE SHEET 22 FOR RIGHT-OF-WAY LEGEND.



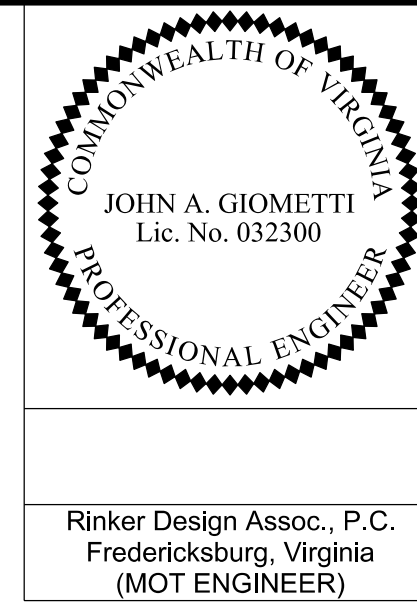
VDOT PROJECT NO. 0495-029-419	SHEET NO. 10(18) AREA 4
----------------------------------	-------------------------------

APPROVED FOR CONSTRUCTION

NOVA DISTRICT

PROJECT MANAGER VDOT - Rupal Shah, PE, (703) 259-2362
SURVEYED BY, DATE RDA - Nicholas Kougaull's, LS, (703) 334-0837, 1/2019
DESIGN BY RDA - Darrell Fischer, PE, (703) 334-0823
SUBSURFACE UTILITY BY, DATE Accumark - Michael Taylor, LS, (703) 635-3060, 12/2021

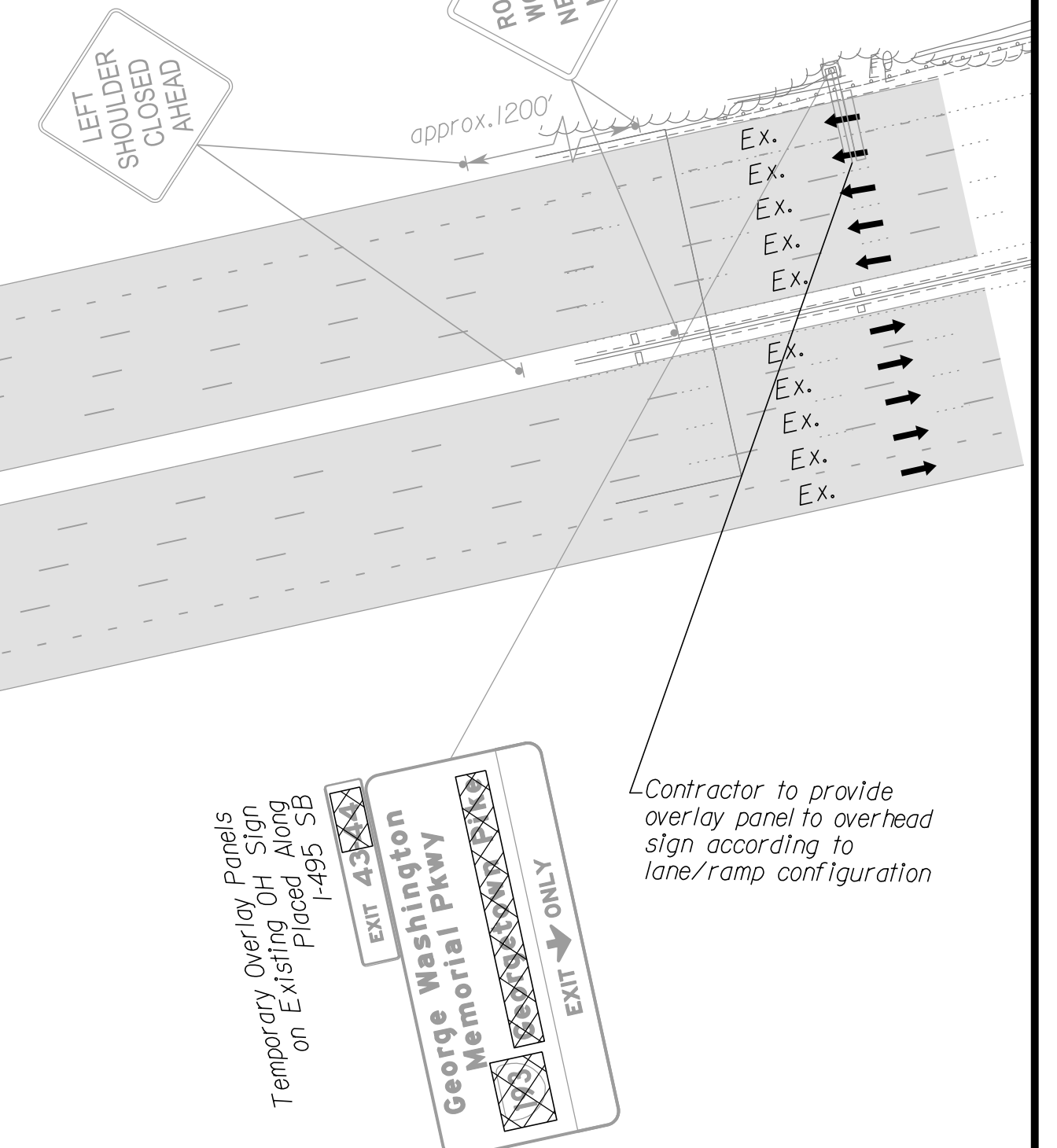
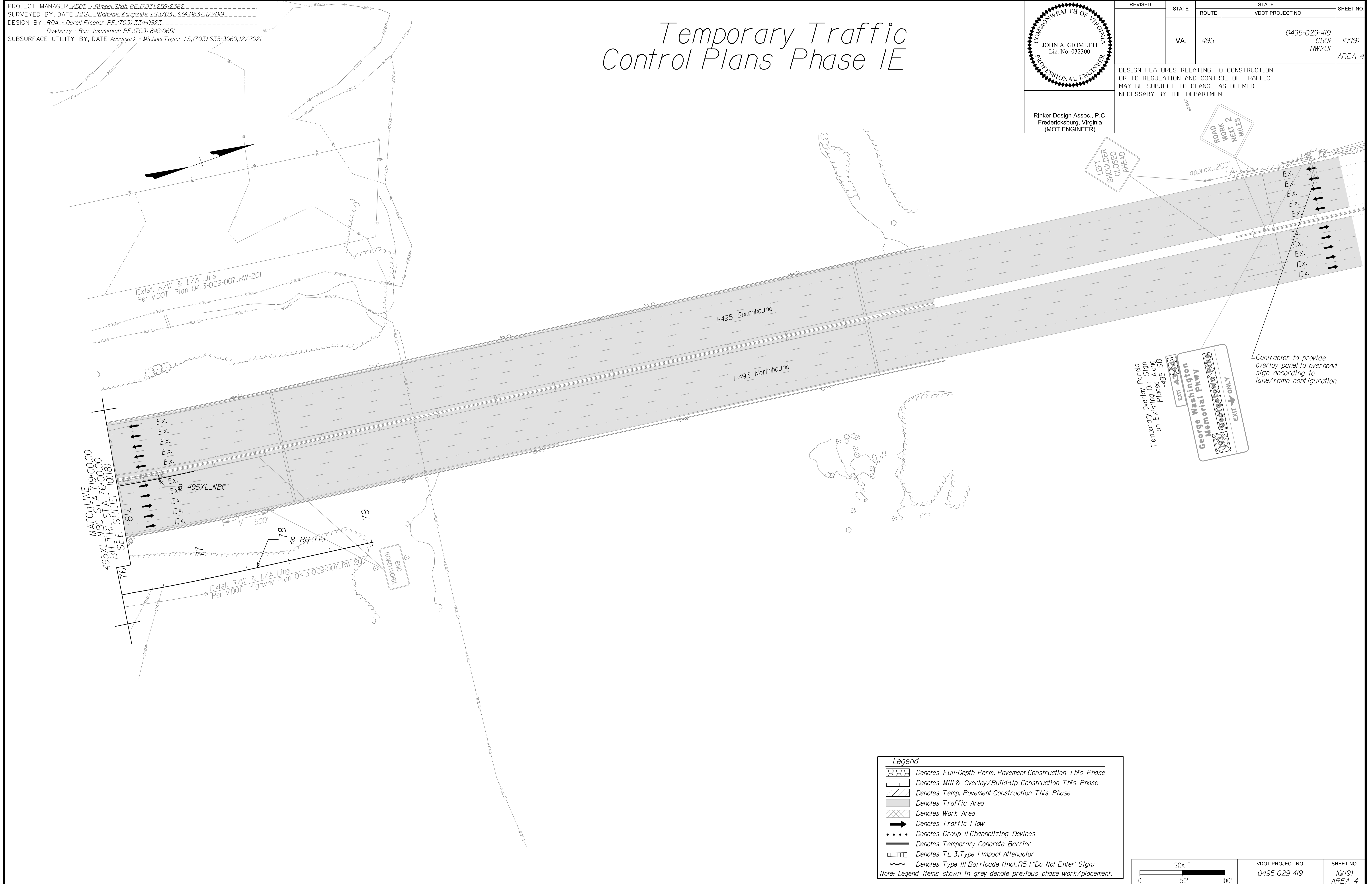
Temporary Traffic Control Plans Phase 1E



Rinker Design Assoc., P.C.
Fredericksburg, Virginia
(MOT ENGINEER)

REVISED	STATE	ROUTE	STATE	VDOT PROJECT NO.	SHEET NO.
	VA.	495		0495-029-419 C501 RW201	10(19) AREA 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

- Denotes Full-Depth Perm. Pavement Construction This Phase
- Denotes Mill & Overlay/Build-Up Construction This Phase
- Denotes Temp. Pavement Construction This Phase
- Denotes Traffic Area
- Denotes Work Area
- Denotes Traffic Flow
- Denotes Group II Channelizing Devices
- Denotes Temporary Concrete Barrier
- Denotes TL-3, Type I Impact Attenuator
- Denotes Type III Barricade (Incl. R5-1 "Do Not Enter" Sign)

Note: Legend Items shown in grey denote previous phase work/placement.

SCALE 0 50' 100'

VDOT PROJECT NO. 0495-029-419	SHEET NO. 10(19) AREA 4
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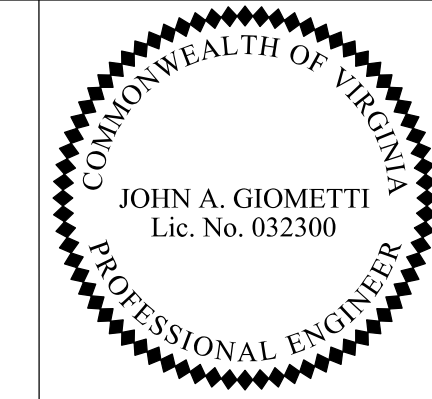
APPROVED FOR CONSTRUCTION

NOVA DISTRICT

PROJECT MANAGER_VDOT - Rupal Shah, P.E. (703) 259-2362
 SURVEYED BY, DATE_RDA - Nicholas Kaugaulis, L.S. (703) 334-0837, 1/2019
 DESIGN BY_RDA - Darrell Fischer, P.E. (703) 334-0823
 SUBSURFACE UTILITY BY, DATE_Accurark - Michael Taylor, L.S. (703) 635-3060, 12/2021

NAME	BL	BEGIN		END	
		STATION	OFFSET	STATION	OFFSET
1R(15) -1	495XL_NB	SEE AREA 3		679+90	5.00' RT
1R(15) -2	495XL_SB	SEE AREA 3		281+75	9.37' LT
1R(15) -3	495XL_NB	681+27	4.94' RT	SEE SHEET 1R(16)	
1R(15) -4	495XL_SB	283+10	25.88' LT	SEE SHEET 1R(16)	

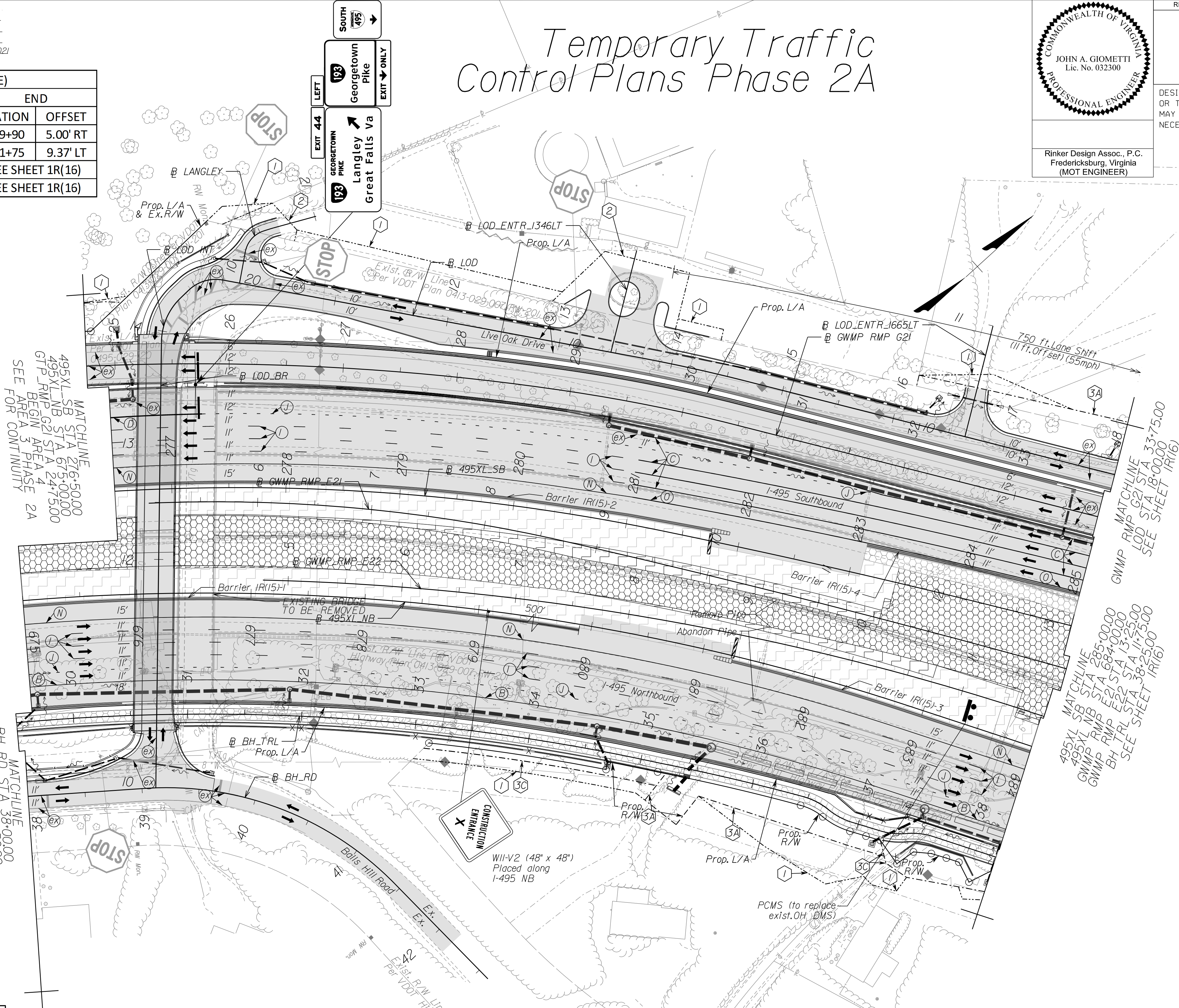
Temporary Traffic Control Plans Phase 2A



Rinker Design Assoc., P.C.
 Fredericksburg, Virginia
 (MOT ENGINEER)

REVISION	STATE	ROUTE	STATE	VDOT PROJECT NO.	SHEET NO.
	VA	495		0495-029-419 C501 RW201	1R(15) AREA 4

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



MATCHLINE
 495XL_SB STA 276+50.00
 495XL_NB STA 675+00.00
 GTP RMP G21 STA 247+50.00
 BEGIN AREA 3 PHASE 2A
 SEE AREA 3 FOR CONTINUITY

MATCHLINE
 BH TR STA 38+00.00
 BH RD STA 29+50.00
 BEGIN AREA 4
 SEE AREA 3 PHASE 2A
 FOR CONTINUITY

MATCHLINE
 495XL_SB STA 285+00.00
 495XL_NB STA 684+00.00
 GWMP RMP E22 STA 13+25.00
 BH TR STA 38+25.00
 SEE SHEET 1R(16)

Temporary Pavement Marking Legend

(A) White, 4" Width, Solid Line	(M) Yellow, 4" Width, Solid Line
(B) White, 6" Width, Solid Line	(N) Yellow, 6" Width, Solid Line
(C) White, 8" Width, Solid Line	(O) Yellow, 8" Width, Solid Line
(D) White, 12" Width, Solid Line	(P) Yellow, 12" Width, Solid Line
(E) White, 24" Width, Solid Line	(Q) Yellow, 4" Width, 2' Long, 6' Space
(F) White, 4" Width, 2' Long, 6' Space	(R) Yellow, 4" Width, Double Line
(G) White, 4" Width, 10' Long, 30' Space	(S) Yellow, 6" Width, Double Line
(H) White, 6" Width, 3' Long, 9' Space	(T) Yellow, 24" Width @ 45°
(I) White, 6" Width, 10' Long, 30' Space	(U) White, Pavement Marking, Sym./Mess.
(J) White, 8" Width, 3' Long, 9' Space	(V) White, 8" Width, 3' Long, 12' Space
(K) White, 8" Width, 10' Long, 30' Space	(W) Type E Removable Black Tape
(L) White, Yield Marking	(X) Existing Pavement Marking

Note: Temporary raised pavement markers shall be installed in accordance with the VWAPM.

Legend

	Denotes Full-Depth Perm. Pavement Construction This Phase
	Denotes Mill & Overlay/Build-Up Construction This Phase
	Denotes Temp. Pavement Construction This Phase
	Denotes Traffic Area
	Denotes Work Area
	Denotes Traffic Flow
	Denotes Group II Channelizing Devices
	Denotes Temporary Concrete Barrier
	Denotes TL-3, Type I Impact Attenuator
	Denotes Type III Barricade (Incl. R5-1 "Do Not Enter" Sign)

Note: Legend items shown in grey denote previous phase work/placement.

NOTE:
 SEE SHEET 2Z FOR RIGHT-OF-WAY LEGEND.

SCALE: 0 50' 100'

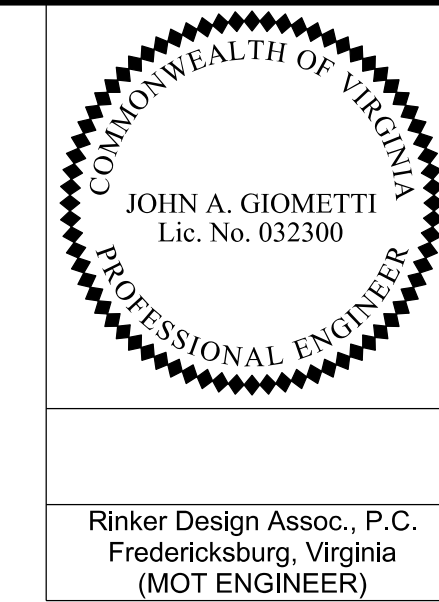
VDOT PROJECT NO. 0495-029-419	SHEET NO. 1R(15) AREA 4
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APPROVED FOR CONSTRUCTION

NOVA DISTRICT

10/26/2022

PROJECT MANAGER: VDOT - Rupal Shah, PE, (703) 259-2362
 SURVEYED BY: DATE: RDA - Nicholas Kaugaulis, LS, (703) 334-0837, 1/2019
 DESIGN BY: RDA - Darrell Fischer, PE, (703) 334-0823
 SUBSURFACE UTILITY BY: DATE: Accumark - Michael Taylor, LS, (703) 635-3060, 12/2021



REVISED	STATE	ROUTE	STATE	VDOT PROJECT NO.	SHEET NO.
	VA	495		0495-029-419 C501 RW201	1R(16) AREA 4

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

Rinker Design Assoc., P.C.
 Fredericksburg, Virginia
 (MOT ENGINEER)

Temporary Traffic Control Plans Phase 2A

NAME	BL	BEGIN		END	
		STATION	OFFSET	STATION	OFFSET
1R(16) -1	495XL_NB/495X_L_NBC	SEE SHEET 1R(15)		689+40	13.05' LT
1R(16) -2	495XL_SB	SEE SHEET 1R(15)		290+24	29.00' LT
1R(16) -3	495XL_SB	291+60	29.00' LT	SEE SHEET 1R(17)	
1R(16) -4	495XL_NBC	690+76	14.09' LT	SEE SHEET 1R(17)	

Temporary Pavement Marking Legend

(A) White, 4" Width, Solid Line	(M) Yellow, 4" Width, Solid Line
(B) White, 6" Width, Solid Line	(N) Yellow, 6" Width, Solid Line
(C) White, 8" Width, Solid Line	(O) Yellow, 8" Width, Solid Line
(D) White, 12" Width, Solid Line	(P) Yellow, 12" Width, Solid Line
(E) White, 24" Width, Solid Line	(Q) Yellow, 4" Width, 2' Long, 6' Space
(F) White, 4" Width, 2' Long, 6' Space	(R) Yellow, 4" Width, Double Line
(G) White, 4" Width, 10' Long, 30' Space	(S) Yellow, 6" Width, Double Line
(H) White, 6" Width, 3' Long, 9' Space	(T) Yellow, 24" Width @ 45°
(I) White, 6" Width, 10' Long, 30' Space	(U) White, Pav. Mark. Sym./Mess.
(J) White, 8" Width, 3' Long, 9' Space	(V) White, 8" Width, 3' Long, 12' Space
(K) White, 8" Width, 10' Long, 30' Space	(W) Type E Removable Black Tape
(L) White, Yield Marking	(X) Existing Pavement Marking

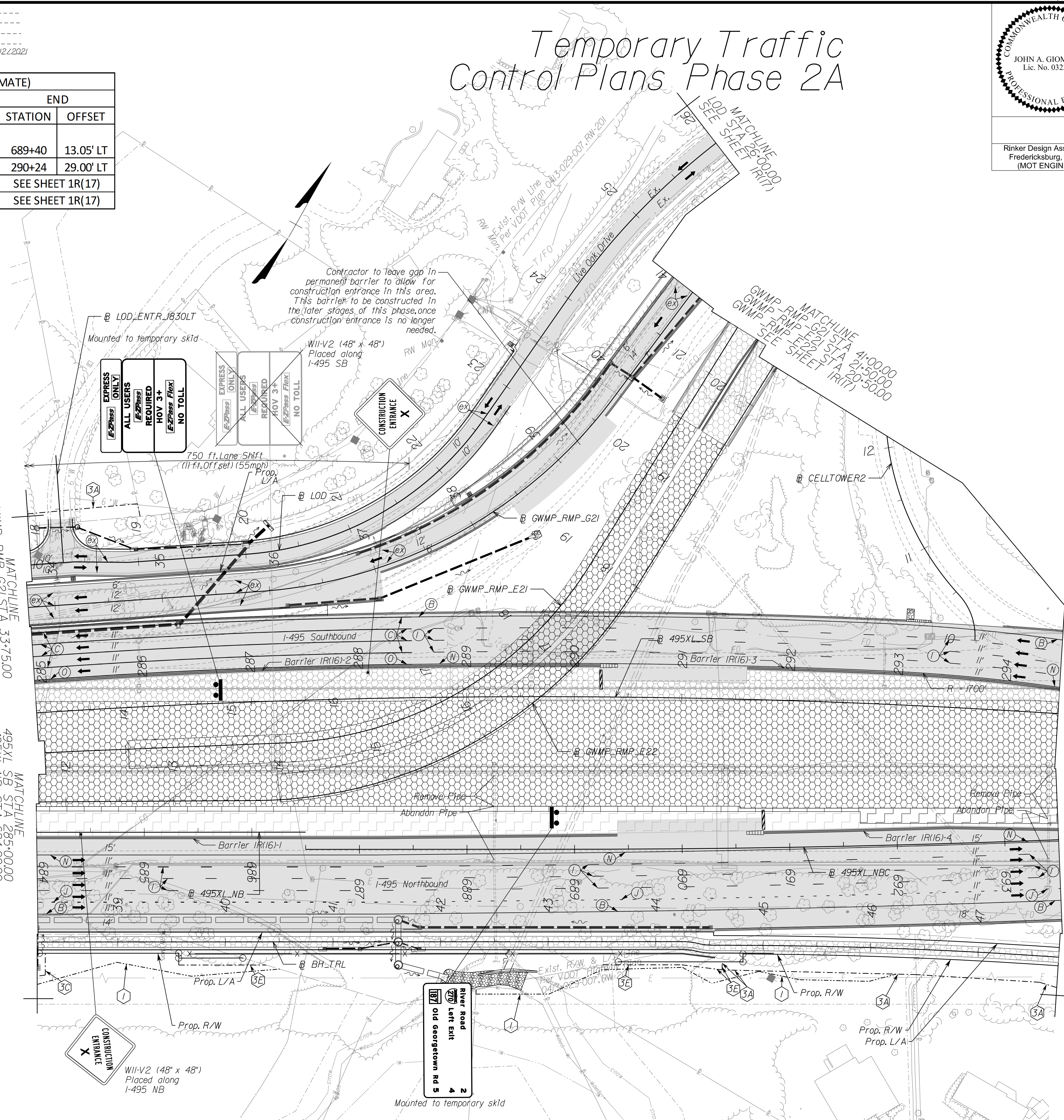
Note: Temporary, raised pavement markers shall be installed in accordance with the VMAP.

Legend

[Pattern]	Denotes Full-Depth Perm. Pavement Construction This Phase
[Pattern]	Denotes Mill & Overlay/Build-Up Construction This Phase
[Pattern]	Denotes Temp. Pavement Construction This Phase
[Pattern]	Denotes Traffic Area
[Pattern]	Denotes Work Area
[Arrow]	Denotes Traffic Flow
[Dotted]	Denotes Group II Channelizing Devices
[Line]	Denotes Temporary Concrete Barrier
[Symbol]	Denotes TL-3, Type I Impact Attenuator
[Symbol]	Denotes Type III Barricade (Incl. R5-1 "Do Not Enter" Sign)

Note: Legend items shown in grey denote previous phase work/placement.

NOTE:
SEE SHEET 2Z FOR RIGHT-OF-WAY LEGEND.



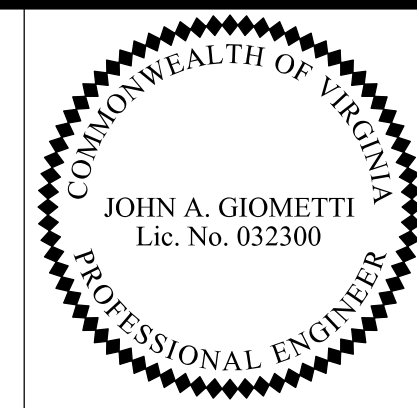
NOVA DISTRICT

10/26/2022

APPROVED FOR CONSTRUCTION

SCALE 0 50' 100'	VDOT PROJECT NO. 0495-029-419	SHEET NO. 1R(16) AREA 4
---------------------	----------------------------------	-------------------------------

PROJECT MANAGER_VDOT - Rupal Shah, PE, (703) 259-2362
 SURVEYED BY, DATE_RDA - Nicholas, & Gaugall's, LS, (703) 334-0837, 1/2019
 DESIGN BY_RDA - Darrell Fischer, PE, (703) 334-0823
 SUBSURFACE UTILITY BY, DATE_Accurmark - Michael Taylor, LS, (703) 635-3060, 1/2/2021



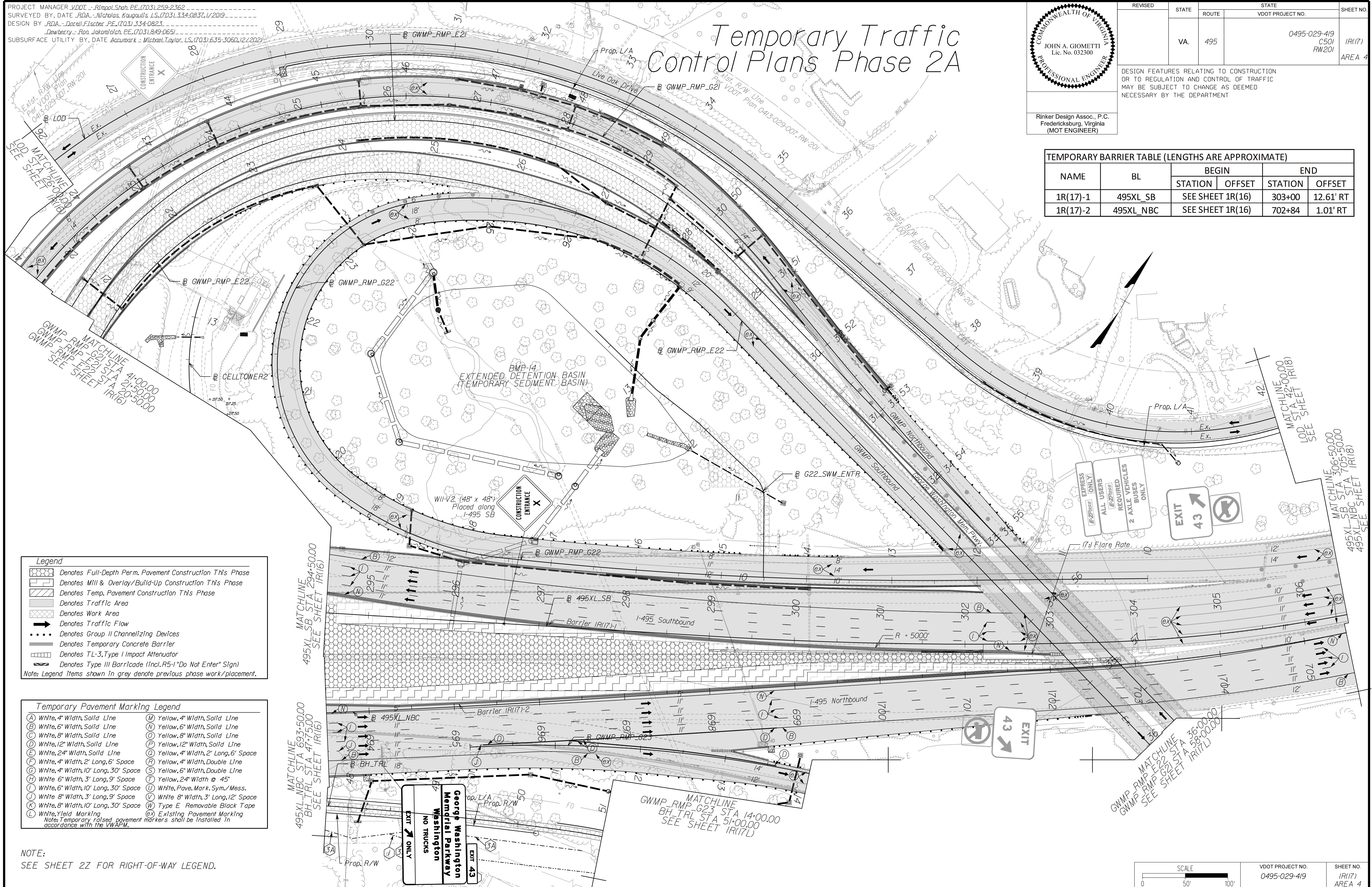
Rinker Design Assoc., P.C.
 Fredericksburg, Virginia
 (MOT ENGINEER)

REVISED	STATE	ROUTE	STATE	VDOT PROJECT NO.	SHEET NO.
	VA.	495		0495-029-419 C501 RW201	1R(17) AREA 4

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

Temporary Traffic Control Plans Phase 2A

NAME	BL	BEGIN		END	
		STATION	OFFSET	STATION	OFFSET
1R(17)-1	495XL_SB	SEE SHEET 1R(16)		303+00	12.61' RT
1R(17)-2	495XL_NBC	SEE SHEET 1R(16)		702+84	1.01' RT



Legend

- Denotes Full-Depth Perm. Pavement Construction This Phase
- Denotes Mill & Overlay/Build-Up Construction This Phase
- Denotes Temp. Pavement Construction This Phase
- Denotes Traffic Area
- Denotes Work Area
- Denotes Traffic Flow
- Denotes Group II Channelizing Devices
- Denotes Temporary Concrete Barrier
- Denotes TL-3, Type I Impact Attenuator
- Denotes Type III Barricade (Incl. R5-1 "Do Not Enter" Sign)

Note: Legend items shown in grey denote previous phase work/placement.

Temporary Pavement Marking Legend

(A) White, 4" Width, Solid Line	(M) Yellow, 4" Width, Solid Line
(B) White, 6" Width, Solid Line	(N) Yellow, 6" Width, Solid Line
(C) White, 8" Width, Solid Line	(O) Yellow, 8" Width, Solid Line
(D) White, 12" Width, Solid Line	(P) Yellow, 12" Width, Solid Line
(E) White, 24" Width, Solid Line	(Q) Yellow, 4" Width, 2' Long, 6" Space
(F) White, 4" Width, 2' Long, 6" Space	(R) Yellow, 4" Width, Double Line
(G) White, 4" Width, 10' Long, 30' Space	(S) Yellow, 6" Width, Double Line
(H) White, 6" Width, 3' Long, 9" Space	(T) Yellow, 24" Width @ 45'
(I) White, 6" Width, 10' Long, 30' Space	(U) White, Pav. Mark. Sym./ Mess.
(J) White, 8" Width, 3' Long, 9" Space	(V) White, 8" Width, 3' Long, 12" Space
(K) White, 8" Width, 10' Long, 30' Space	(W) Type E Removable Black Tape
(L) White, Yield Marking	(X) Existing Pavement Marking

Note: Temporary, raised pavement markers shall be installed in accordance with the VMAP.

NOTE:
SEE SHEET 22 FOR RIGHT-OF-WAY LEGEND.

SCALE: 0 50' 100'

VDOT PROJECT NO. 0495-029-419	SHEET NO. 1R(17) AREA 4
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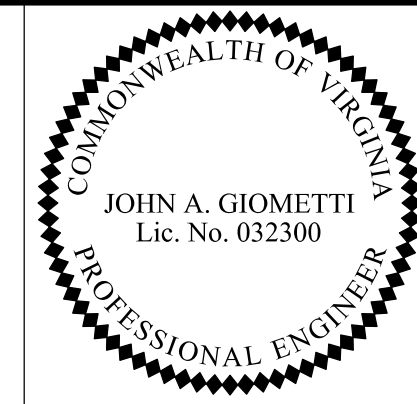
APPROVED FOR CONSTRUCTION

NOVA DISTRICT

10/26/2022

PROJECT MANAGER_VDOT - Rita Pal...
SURVEYED BY, DATE_RDA - Nicholas...
DESIGN BY_RDA - Darrell Fischer...
SUBSURFACE UTILITY BY, DATE_Accumark - Michael Taylor...

Temporary Traffic Control Plans Phase 2A

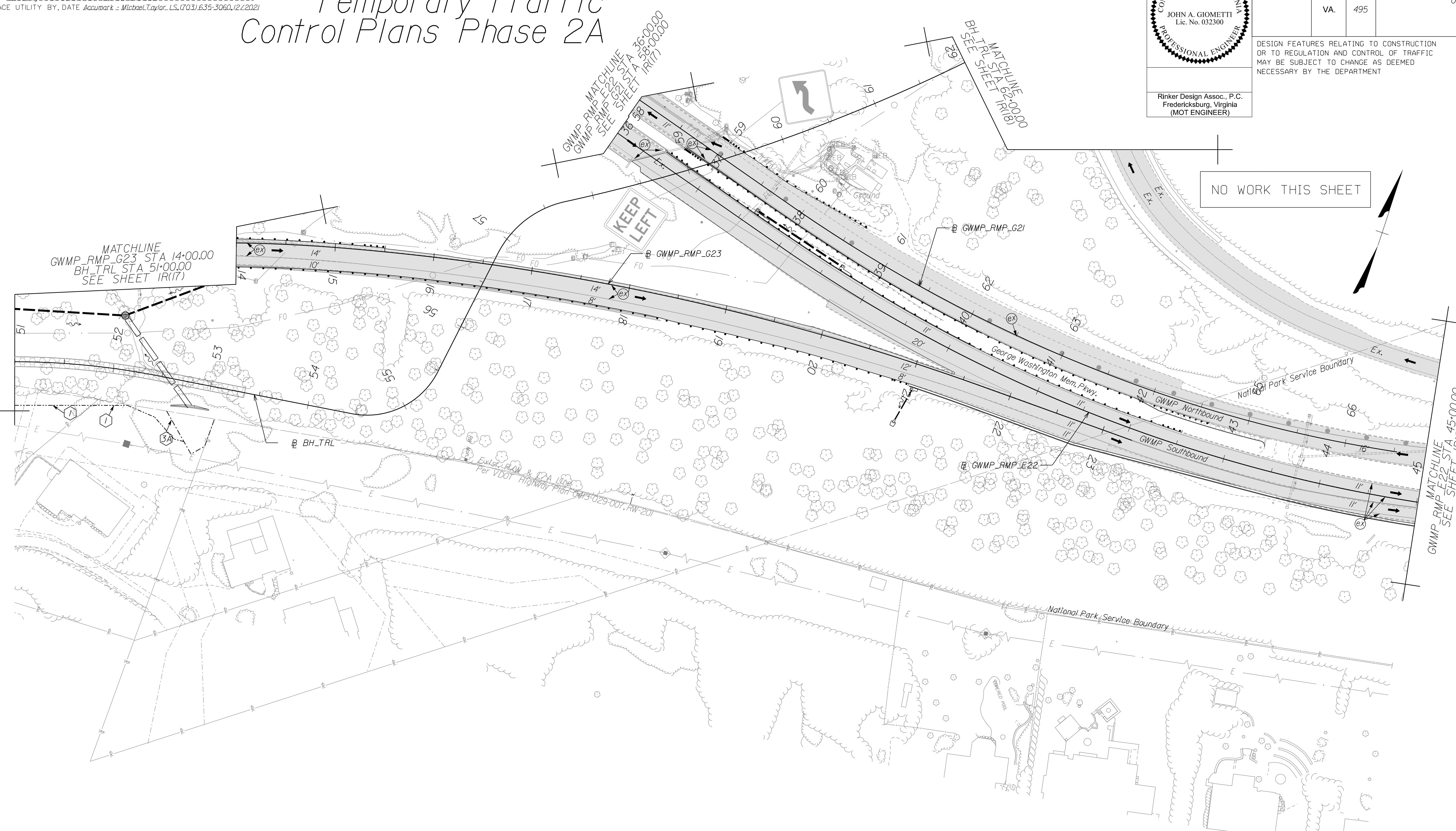


Rinker Design Assoc., P.C.
Fredericksburg, Virginia
(MOT ENGINEER)

REVISED	STATE	ROUTE	STATE	VDOT PROJECT NO.	SHEET NO.
	VA.	495		0495-029-419 C501 RW201	1R(17L) AREA 4

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

NO WORK THIS SHEET



Temporary Pavement Marking Legend

(A) White, 4" Width, Solid Line	(M) Yellow, 4" Width, Solid Line
(B) White, 6" Width, Solid Line	(N) Yellow, 6" Width, Solid Line
(C) White, 8" Width, Solid Line	(O) Yellow, 8" Width, Solid Line
(D) White, 12" Width, Solid Line	(P) Yellow, 12" Width, Solid Line
(E) White, 24" Width, Solid Line	(Q) Yellow, 4" Width, 2' Long, 6' Space
(F) White, 4" Width, 2' Long, 6' Space	(R) Yellow, 4" Width, Double Line
(G) White, 4" Width, 10' Long, 30' Space	(S) Yellow, 6" Width, Double Line
(H) White, 6" Width, 3' Long, 9' Space	(T) Yellow, 24" Width @ 45°
(J) White, 6" Width, 10' Long, 30' Space	(U) White, Pav. Mark. Sym./Mess.
(K) White, 8" Width, 3' Long, 9' Space	(V) White, 8" Width, 3' Long, 12' Space
(L) White, 8" Width, 10' Long, 30' Space	(W) Type E Removable Black Tape
(X) White, Yield Marking	(@) Existing Pavement Marking

Note: Temporary raised pavement markers shall be installed in accordance with the VWAPM.

NOTE:
SEE SHEET 2Z FOR RIGHT-OF-WAY LEGEND.

Legend

	Denotes Full-Depth Perm. Pavement Construction This Phase
	Denotes Mill & Overlay/Build-Up Construction This Phase
	Denotes Temp. Pavement Construction This Phase
	Denotes Traffic Area
	Denotes Work Area
	Denotes Traffic Flow
	Denotes Group II Channellizing Devices
	Denotes Temporary Concrete Barrier
	Denotes TL-3, Type I Impact Attenuator
	Denotes Type III Barricade (Incl. R5-1 'Do Not Enter' Sign)

Note: Legend items shown in grey denote previous phase work/placement.

SCALE 0 50' 100'	VDOT PROJECT NO. 0495-029-419	SHEET NO. 1R(17L) AREA 4
---------------------	----------------------------------	--------------------------------

APPROVED FOR CONSTRUCTION

NOVA DISTRICT

10/26/2022

PROJECT MANAGER_VDOT - Rupal Shah, PE, (703) 259-2362
SURVEYED BY, DATE_RDA - Nicholas Kaugaulis, LS, (703) 334-0837, 1/2019
DESIGN BY_RDA - Darrell Fischer, PE, (703) 334-0823
Dewberry - Ron Jakomlitch, PE, (703) 849-0651
SUBSURFACE UTILITY BY, DATE_Accumark - Michael Taylor, LS, (703) 635-3060, 12/2021

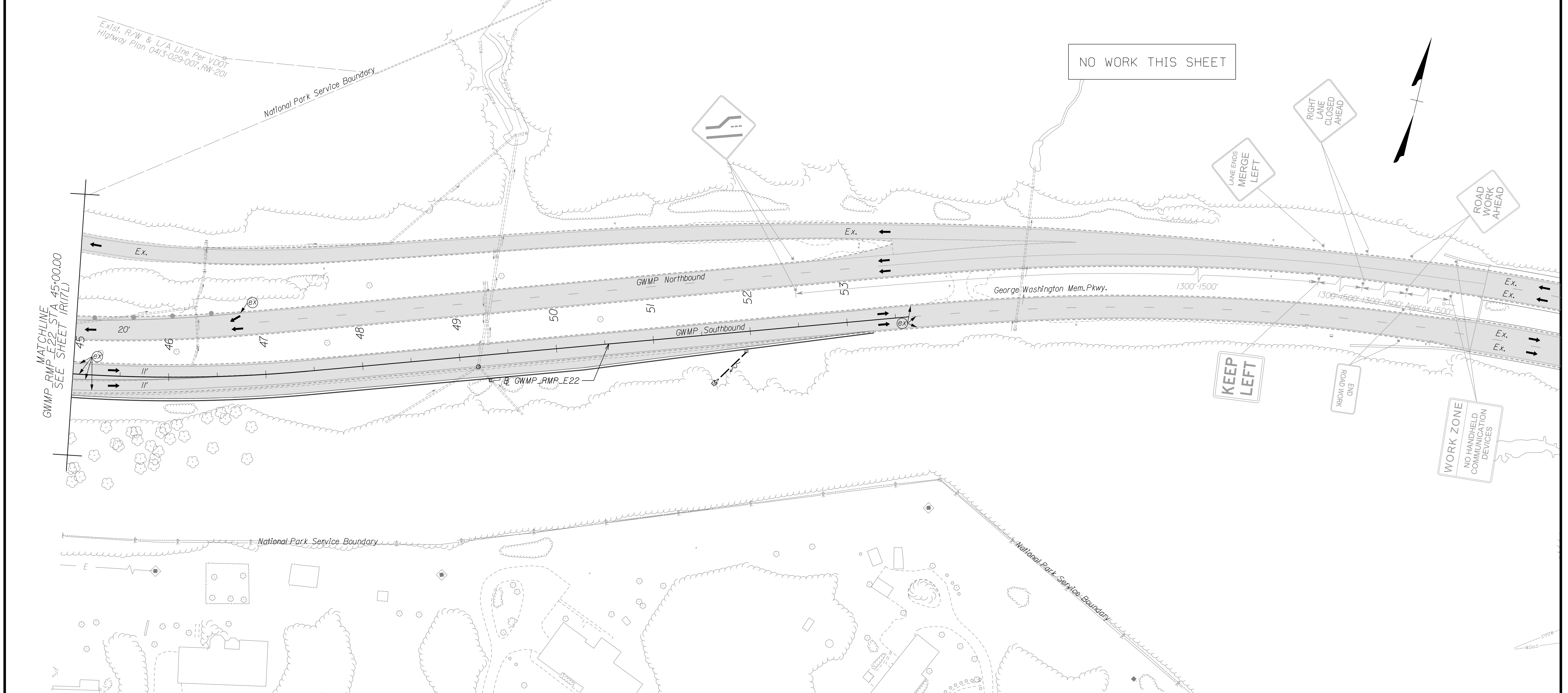
Temporary Traffic Control Plans Phase 2A

COMMONWEALTH OF VIRGINIA
PROFESSIONAL ENGINEER
JOHN A. GIOMETTI
Lic. No. 032300

Rinker Design Assoc., P.C.
Fredericksburg, Virginia
(MOT ENGINEER)

REVISED	STATE	ROUTE	STATE	VDOT PROJECT NO.	SHEET NO.
	VA.	495		0495-029-419 C501 RW201	1R(17P) AREA 4

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



NOVA DISTRICT

Temporary Pavement Marking Legend

(A) White, 4" Width, Solid Line	(M) Yellow, 4" Width, Solid Line
(B) White, 6" Width, Solid Line	(N) Yellow, 6" Width, Solid Line
(C) White, 8" Width, Solid Line	(O) Yellow, 8" Width, Solid Line
(D) White, 12" Width, Solid Line	(P) Yellow, 12" Width, Solid Line
(E) White, 24" Width, Solid Line	(Q) Yellow, 4" Width, 2' Long, 6' Space
(F) White, 4" Width, 2' Long, 6' Space	(R) Yellow, 4" Width, Double Line
(G) White, 4" Width, 10' Long, 30' Space	(S) Yellow, 6" Width, Double Line
(H) White, 6" Width, 3' Long, 9' Space	(T) Yellow, 24" Width @ 45'
(I) White, 6" Width, 10' Long, 30' Space	(U) White, Pavement Marking, Sym./Mess.
(J) White, 8" Width, 3' Long, 9' Space	(V) White, 8" Width, 3' Long, 12' Space
(K) White, 8" Width, 10' Long, 30' Space	(W) Type E Removable Black Tape
(L) White, Yield Marking	(X) Existing Pavement Marking

Note: Temporary raised pavement markers shall be installed in accordance with the VWAPM.

NOTE:
SEE SHEET 2Z FOR RIGHT-OF-WAY LEGEND.

Legend

[Pattern]	Denotes Full-Depth Perm. Pavement Construction This Phase
[Pattern]	Denotes Mill & Overlay/Build-Up Construction This Phase
[Pattern]	Denotes Temp. Pavement Construction This Phase
[Pattern]	Denotes Traffic Area
[Pattern]	Denotes Work Area
[Arrow]	Denotes Traffic Flow
[Dotted]	Denotes Group II Channelizing Devices
[Line]	Denotes Temporary Concrete Barrier
[Symbol]	Denotes TL-3, Type I Impact Attenuator
[Symbol]	Denotes Type III Barricade (Incl. R5-1 "Do Not Enter" Sign)

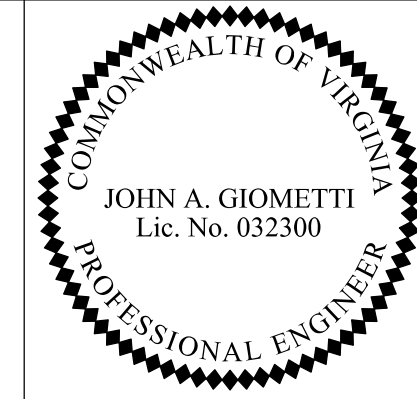
Note: Legend items shown in grey denote previous phase work/placement.

SCALE 0 50' 100'	VDOT PROJECT NO. 0495-029-419	SHEET NO. 1R(17P) AREA 4
---------------------	----------------------------------	--------------------------------

APPROVED FOR CONSTRUCTION

PROJECT MANAGER_VDOT - Rupal Shah, P.E. (703) 259-2362
SURVEYED BY, DATE_RDA - Nicholas Kaugaulis, L.S. (703) 334-0837, 1/2019
DESIGN BY_RDA - Darrell Fischer, P.E. (703) 334-0823
SUBSURFACE UTILITY BY, DATE_Accurmark - Michael Taylor, L.S. (703) 635-3060, 12/2021

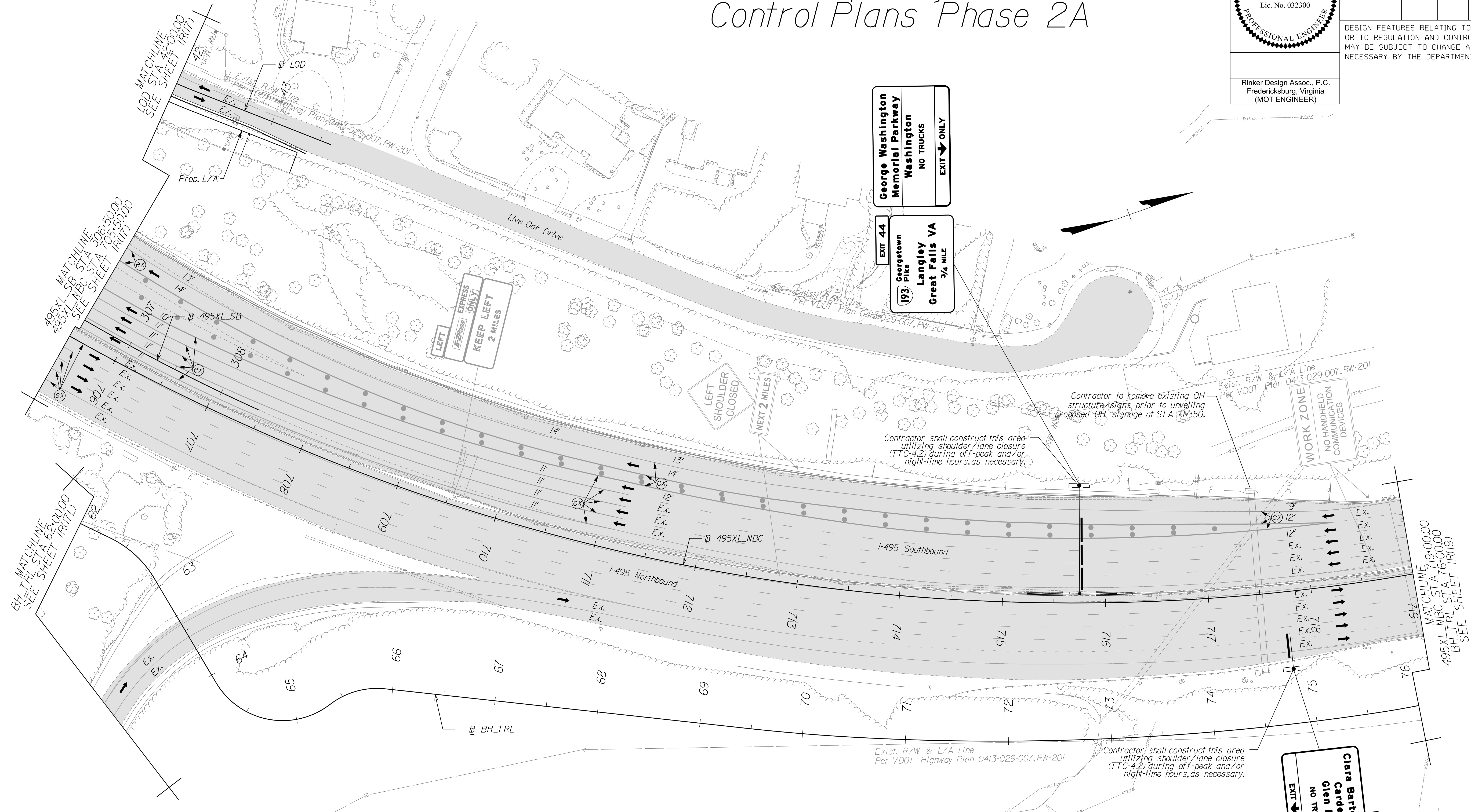
Temporary Traffic Control Plans Phase 2A



Rinker Design Assoc., P.C.
Fredericksburg, Virginia
(MOT ENGINEER)

REVISED	STATE	ROUTE	STATE	VDOT PROJECT NO.	SHEET NO.
	VA.	495		0495-029-419 C501 RW201	IR(18) AREA 4

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



Temporary Pavement Marking Legend

(A) White, 4" Width, Solid Line	(M) Yellow, 4" Width, Solid Line
(B) White, 6" Width, Solid Line	(N) Yellow, 6" Width, Solid Line
(C) White, 8" Width, Solid Line	(O) Yellow, 8" Width, Solid Line
(D) White, 12" Width, Solid Line	(P) Yellow, 12" Width, Solid Line
(E) White, 24" Width, Solid Line	(Q) Yellow, 4" Width, 2' Long, 6' Space
(F) White, 4" Width, 2' Long, 6' Space	(R) Yellow, 4" Width, Double Line
(G) White, 4" Width, 10' Long, 30' Space	(S) Yellow, 6" Width, Double Line
(H) White, 6" Width, 3' Long, 9' Space	(T) Yellow, 24" Width @ 45°
(I) White, 6" Width, 10' Long, 30' Space	(U) White, Pavem. Mark. Sym./Mess.
(J) White, 8" Width, 3' Long, 9' Space	(V) White, 8" Width, 3' Long, 12' Space
(K) White, 8" Width, 10' Long, 30' Space	(W) Type E Removable Black Tape
(L) White, Yield Marking	(X) Existing Pavement Marking

Note: Temporary raised pavement markers shall be installed in accordance with the VMAP.

Legend

	Denotes Full-Depth Perm. Pavement Construction This Phase
	Denotes Mill & Overlay/Build-Up Construction This Phase
	Denotes Temp. Pavement Construction This Phase
	Denotes Traffic Area
	Denotes Work Area
	Denotes Traffic Flow
	Denotes Group II Channelizing Devices
	Denotes Temporary Concrete Barrier
	Denotes TL-3, Type I Impact Attenuator
	Denotes Type III Barricade (Incl. R5-1 "Do Not Enter" Sign)

Note: Legend items shown in grey denote previous phase work/placement.

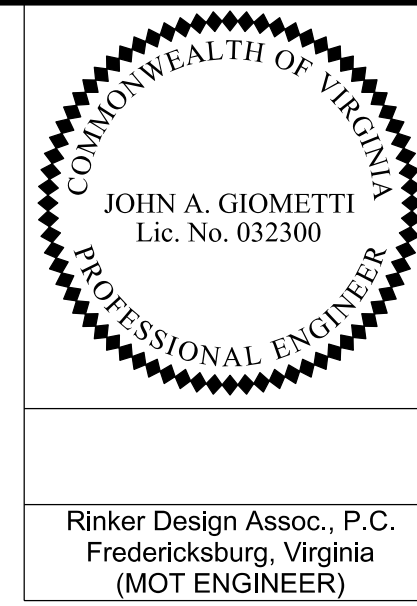
NOTE:
SEE SHEET 22 FOR RIGHT-OF-WAY LEGEND.

SCALE 0 50' 100'	VDOT PROJECT NO. 0495-029-419	SHEET NO. IR(18) AREA 4
---------------------	----------------------------------	-------------------------------

APPROVED FOR CONSTRUCTION

PROJECT MANAGER VDOT - Rupal Shah, PE, (703) 259-2362
SURVEYED BY, DATE RDA - Nicholas Kougaull's, LS, (703) 334-0837, 1/2019
DESIGN BY RDA - Darrell Fischer, PE, (703) 334-0823
SUBSURFACE UTILITY BY, DATE Accumark - Michael Taylor, LS, (703) 635-3060, 12/2021

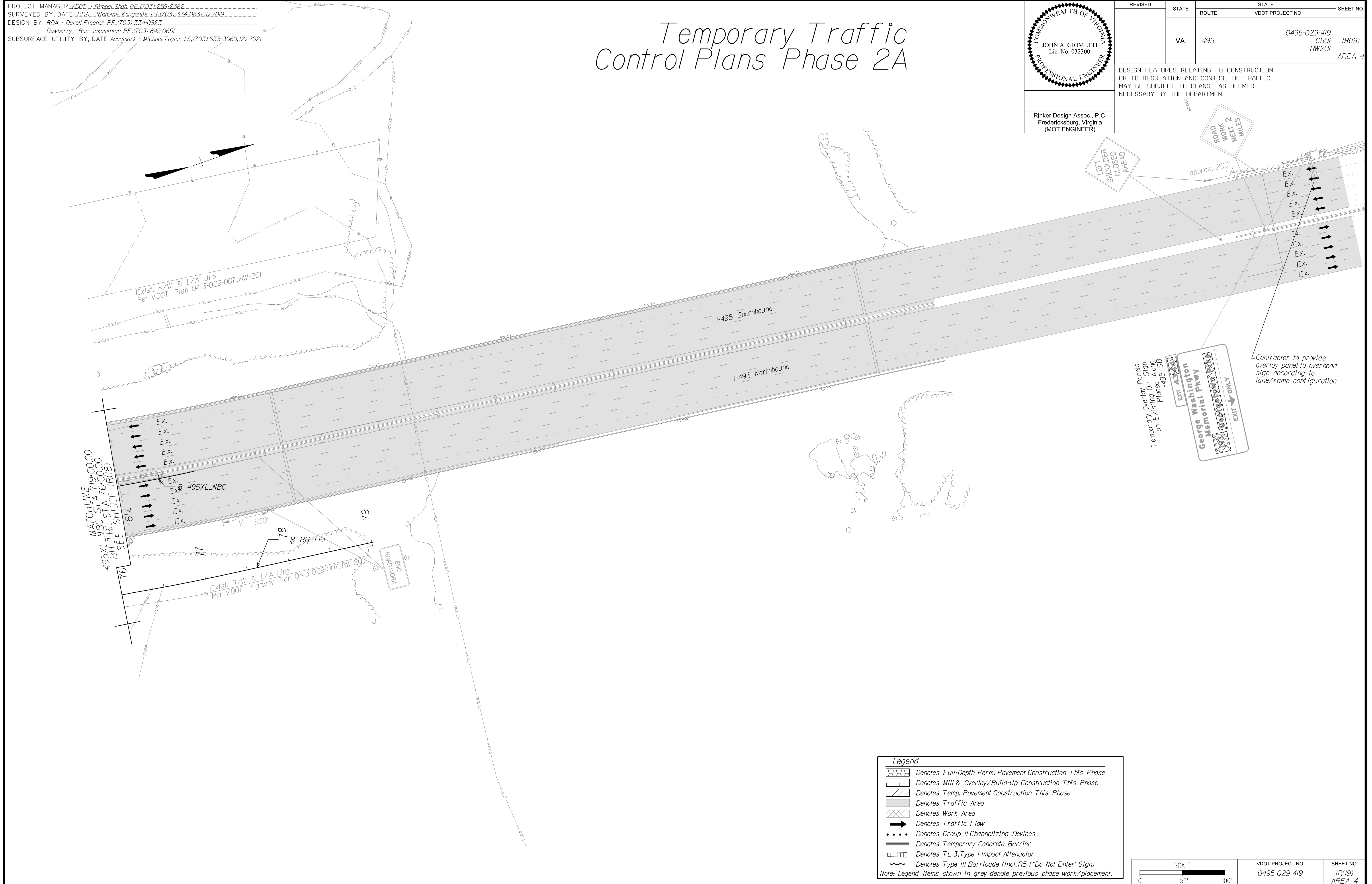
Temporary Traffic Control Plans Phase 2A



Rinker Design Assoc., P.C.
Fredericksburg, Virginia
(MOT ENGINEER)

REVISED	STATE	ROUTE	STATE	VDOT PROJECT NO.	SHEET NO.
	VA.	495		0495-029-419 C501 RW201	IR(19) AREA 4

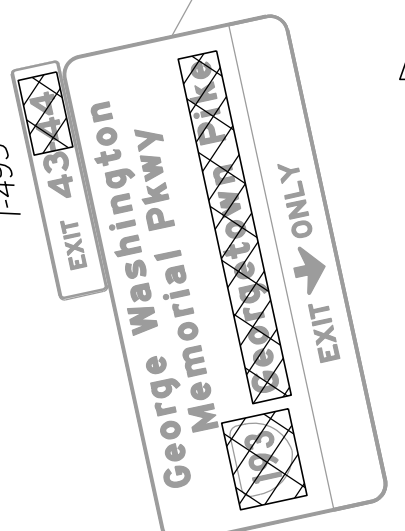
DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT



LEFT SHOULDER CLOSED AHEAD

ROAD WORK NEXT 2 MILES

Temporary Overlay Panels
Temporary Sign Panels
on Existing A05B
I-495 SB



Contractor to provide overlay panel to overhead sign according to lane/ramp configuration

Legend

- Denotes Full-Depth Perm. Pavement Construction This Phase
- Denotes Mill & Overlay/Build-Up Construction This Phase
- Denotes Temp. Pavement Construction This Phase
- Denotes Traffic Area
- Denotes Work Area
- Denotes Traffic Flow
- Denotes Group II Channelizing Devices
- Denotes Temporary Concrete Barrier
- Denotes TL-3, Type I Impact Attenuator
- Denotes Type III Barricade (Incl. R5-1 "Do Not Enter" Sign)

Note: Legend Items shown in grey denote previous phase work/placement.

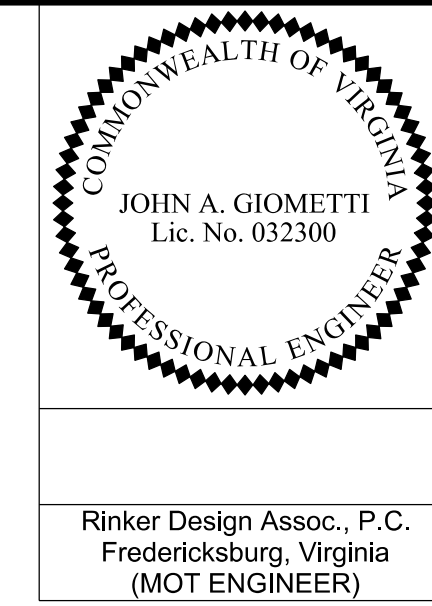
SCALE 0 50' 100'

VDOT PROJECT NO. 0495-029-419	SHEET NO. IR(19) AREA 4
----------------------------------	-------------------------------

APPROVED FOR CONSTRUCTION

NOVA DISTRICT

PROJECT MANAGER_VDOT - R. Stroh, P.E. (703) 259-2362
SURVEYED BY, DATE_RDA - Nicholas Kougoullis, LS (703) 334-0837, 1/2019
DESIGN BY_RDA - Darrell Fischer, P.E. (703) 334-0823
Dewberry - Ron Jakomlitch, P.E. (703) 849-0651
SUBSURFACE UTILITY BY, DATE_Accumark - Michael Taylor, LS (703) 635-3060, 12/2021



REVISED	STATE	ROUTE	STATE	VDOT PROJECT NO.	SHEET NO.
	VA.	495		0495-029-419 C501 RW201	15 AREA 4

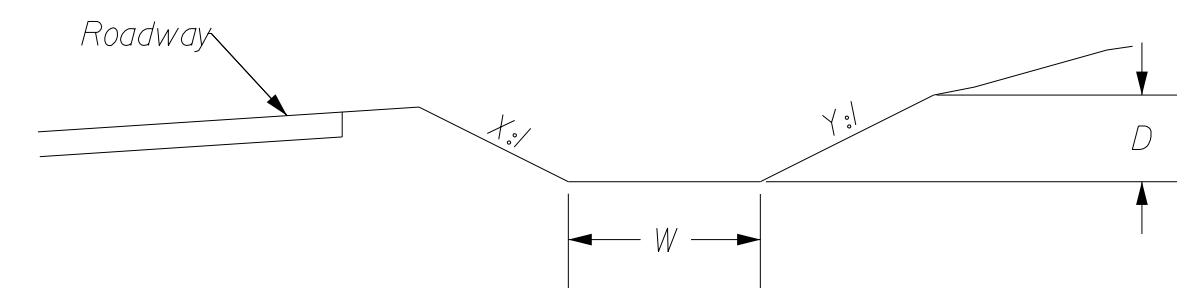
DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT

Rinker Design Assoc., P.C.
Fredericksburg, Virginia
(MOT ENGINEER)

TEMPORARY DITCH TABLE

	CHANNEL INFORMATION	BEGIN STA	END STA	C A	Q (4 in/hr) (cfs)	LONGITUDINAL SLOPE (%)	W (ft)	D (ft)	X (SIDE SLOPE)	Y (SIDE SLOPE)	VELOCITY (FPS)	MAX. PERMISSIBLE VELOCITY (FPS)	CHANNEL LINING AND MINIMUM DEPTH
SHEET NO. CHANNEL NO.	1M(16) DITCH 6	287+06 495 SB	295+35 495 SB	1.98	7.91	2.2%	0	0.8	2.0	2.0	7.9	N/A	Paved Ditch Req'd., 9 in.
SHEET NO. CHANNEL NO.	1L(16) DITCH 8	18+05 LOD	19+24 LOD	0.73	2.90	6.1%	0	0.5	2.0	2.0	9.0	N/A	Paved Ditch Req'd., 6 in.

TEMPORARY DITCH TYPICAL SECTION



NOVA DISTRICT

10/26/2022

NOT TO SCALE	VDOT PROJECT NO. 0495-029-419	SHEET NO. 15 AREA 4
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APPROVED FOR CONSTRUCTION

PROJECT MANAGER VDOT - Riprap, Shrub, P.E. (703) 259-2362
SURVEYED BY, DATE RDA - Nicholas Kougaull's LS (703) 334-0837, 12/2021
DESIGN BY RDA - Darrell Fischer P.E. (703) 334-0823
Dewberry - Ron Jakomlitch, P.E. (703) 849-0651
SUBSURFACE UTILITY BY, DATE Accumark - Michael Taylor LS (703) 635-3060, 12/2021

General Notes

REVISED	STATE		VDOT PROJECT NO.	SHEET NO.
	STATE	ROUTE		
	VA.	495	0495-029-419 C501 RW201	2 AREA 4

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

GRADING

- G-1 The grade line denotes top of finished pavement unless shown otherwise on typical sections or plans.
- G-6 The borrow material for this project shall be a minimum CBR 5.0 or as approved by the Materials Engineer.
- G-7 Material from regular excavation which is suitable for stabilization with hydraulic cement (lime) shall be placed in the top portion of the subgrade.

DRAINAGE

- D-1 The horizontal location of all drainage structures shown on these plans is approximate only, with the exception of structures showing specific stations, special design bridges and storm sewer systems.
- D-2 The horizontal location and invert elevations shown for proposed culverts and storm sewer outfall pipes are based on existing survey data and required design criteria. If during construction, it is found that the horizontal location or invert elevations shown on the plans differ significantly from the horizontal location or elevations of the stream or swale in which the culvert or storm sewer outfall pipe is to be placed, the Engineer shall confer with, and get approval from, the applicable District Drainage Engineer before installing the culvert or storm sewer outfall pipe.
- D-3 The "H" dimensions shown on plans for drop inlets and junction boxes and the "L.F." dimensions shown for manholes are for estimating purposes and are based on the proposed invert elevations shown for the structure and the anticipated top (rim) elevation based on existing or proposed finished grade. The actual "H" or "L.F." dimensions are to be determined by the contractor from field conditions.
- D-6 Pipes shall conform to any of the allowable types shown on sheet number 2K(1), within the applicable height of cover limitations. For strength, sheet thickness, or class designation; available sizes; height of cover limitations; and other restrictions for a particular pipe type or height of cover, see the VDOT 2016 Road and Bridge Standards PC-1. Structural plate pipe may be substituted for corrugated pipe of the same size, provided the substitution complies with the applicable sections of the VDOT 2016 Road and Bridge Standards PC-1.
- D-8 Where open joint pipe is to be used, no joint shall be opened a distance exceeding 25% of the spigot length. Sealing of the pipe joint shall be in accordance with Section 302 of the applicable VDOT 2020 Road and Bridge Specifications.
- D-9 A pipe joint length different from that stated on the plans may be used. An adjustment in the percentage of open joint (not to exceed 25% of the spigot length) or amount of bevel shall be made that will obtain the radius stated on the plans. Extra payment for this adjustment will not be allowed. The proposed adjustment shall be approved by the Engineer prior to installation of the pipe line.
- D-10 The proposed riprap may be omitted by the Engineer if the slope designated for placement of riprap is found to be comprised of solid rock or closely consolidated boulders with soundness, size and weight equal to, or exceeding, the specifications for the proposed riprap.
- D-12 All existing drainage facilities labeled "To Be Abandoned" shall be left in place, backfilled and plugged in accordance with the VDOT 2016 Road and Bridge Standards PP-1. Basis of Payment will be C.Y. of Flowable Backfill.
- D-14 Proposed drop inlets with a height (H) less than the standard minimum shown in the VDOT 2016 Road and Bridge Standards shall be considered and paid for as Standard Drop Inlets for the type specified. Pipes with less than standard minimum finished height of cover shall be noted as such in the drainage description for the pipe. Specific pipe bedding and cover requirements are provided in the applicable PB-1 and PC-1 standard drawings of the VDOT 2016 Road and Bridge Standards.
- D-17 St'd. SL-1 Safety Slab locations are based on the assumed use of precast structures. If cast-in-place structures are utilized, and the interior chamber dimensions (length and width, or diameter) are less than 4 feet, the safety slabs shall not be installed.

PAVEMENT

- P-2 The pavement materials on this project will be paid for on a tonnage basis. The weight will vary in accordance with the specific gravity of the aggregates and the asphaltic content of the mix actually used to secure the design depth. The weight of the asphalt concrete is based on 95% of the theoretical maximum density.

INCIDENTALS

- I-14 Salvaged guardrail materials not used in the new construction shall become the property of the Contractor and shall be disposed of at a licensed landfill, recycled or be retained by the Contractor.
 - I-16 The "underground utilities" survey data on this project has been provided by consultant and copies are available from the Department.
 - I-18 All pavement markings and traffic flow arrows shown on the roadway construction plans are schematic only. The actual location and application of pavement markings shall be in accordance with Section 704 of the applicable VDOT 2020 Road and Bridge Specifications, MUTCD, sequence of construction/traffic control plans, pavement marking plan sheets and as directed by the Engineer.
 - I-19 The following outside sources, under contract with VDOT, have provided information on this project.
 - Hydraulic Design - Rinker Design Associates, P.C. / Dewberry
 - Roadway Design - Rinker Design Associates, P.C. / Dewberry
 - Utility Design - Rinker Design Associates, P.C. / Michael Baker International, Inc.
 - Utility Designation - Accumark
 - Utility Location - Accumark
 - Survey - Rinker Design Associates, P.C. / Dewberry / Rice Associates, Inc.
 - Bridge Design - Rinker Design Associates, P.C. / Dewberry
 - Traffic Design - Dewberry
 - Landscape Design - Dewberry
- If questions or problems arise during construction, please contact the Area Construction Engineer. DO NOT CONTACT THE OUTSIDE SOURCES.

EROSION AND SEDIMENT CONTROL (ESC)

- E-1 See the 1U thru 1X sheet series for the Erosion and Siltation Control Plan for notes and narratives.

NOVA DISTRICT

10/26/2022

	VDOT PROJECT NO. 0495-029-419	SHEET NO. 2 AREA 4
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APPROVED FOR CONSTRUCTION

PROJECT MANAGER VDOT - Rupal Shah, PE, (703) 259-2362
SURVEYED BY, DATE RDA - Nicholas Kaugaulis, LS, (703) 334-0837, 12/2021
DESIGN BY RDA - Darrell Fischer, PE, (703) 334-0823
Dewberry - Ron Jakomilich, PE, (703) 849-0651
SUBSURFACE UTILITY BY, DATE Accumark - Michael Taylor, LS, (703) 635-3060, 12/2021

Typical Sections

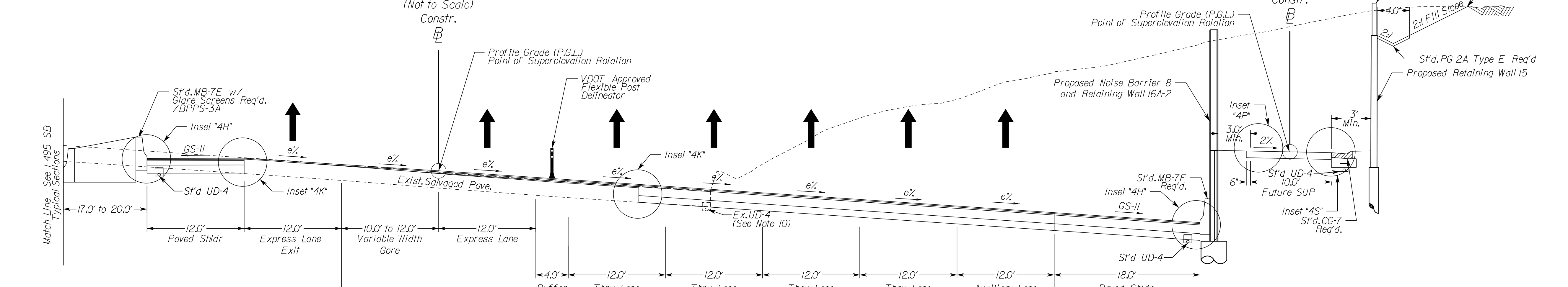
ECS Chantilly, Virginia (GEOTECHNICAL ENGINEER)	Rinker Design Assoc., P.C. Manassas, Virginia (ROADWAY ENGINEER)

REVISED	STATE	ROUTE	STATE	VDOT PROJECT NO.	SHEET NO.
	VA.	495		0495-029-419 C501 RW201	2A AREA 4

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

I-495XL Northbound Superelevated Section, 7 Lane Interstate

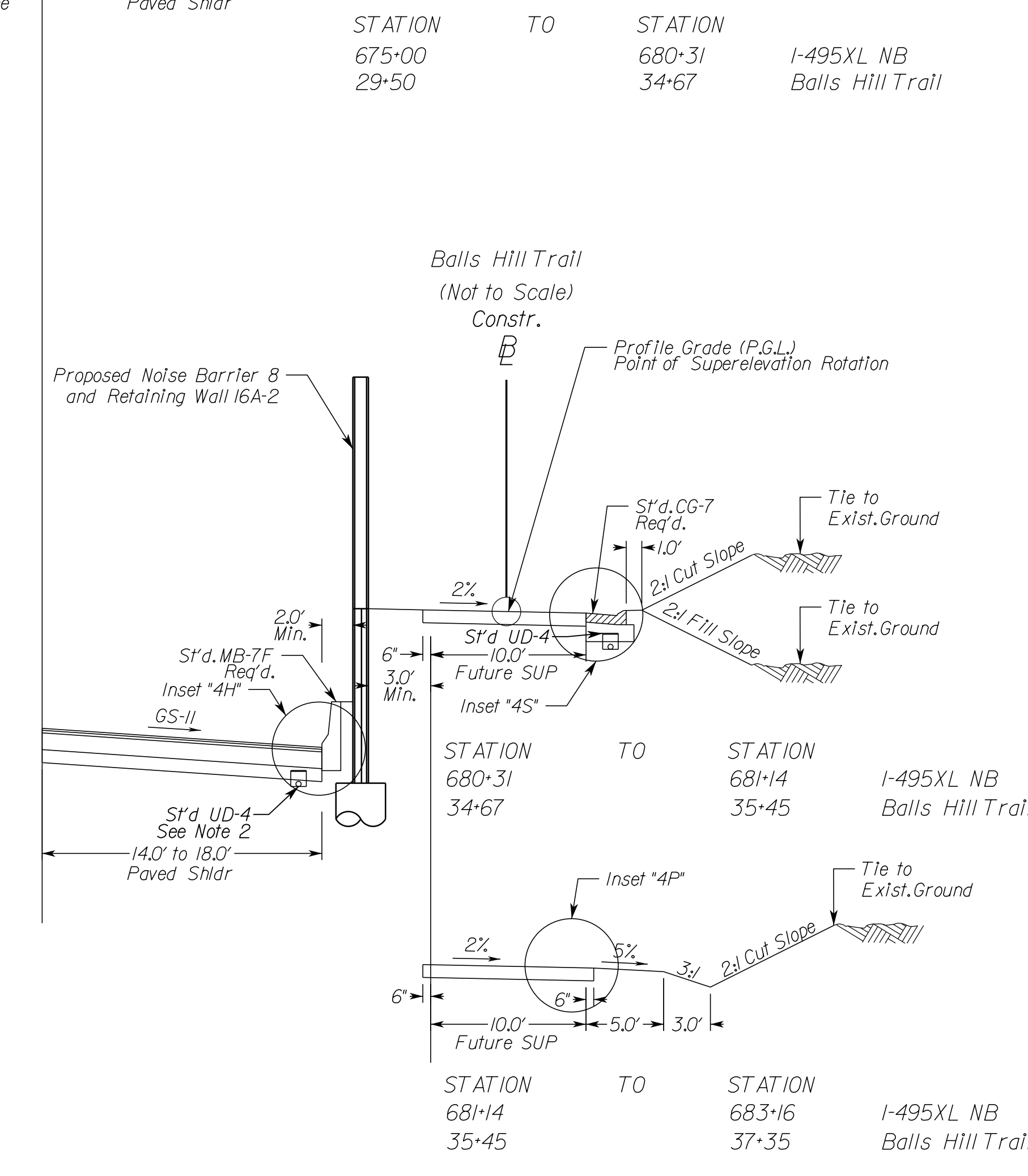
Geometric Design Standard for Urban Interstate (GS-INT): V=60 MPH
(Not to Scale)
Constr.



STATION	TO	STATION	SECTION
675+00		677+10	I-495XL NB
675+00		683+16	I-495XL NB
675+00		680+31	I-495XL NB
29+50		34+67	Balls Hill Trail

TYPICAL SECTION NOTES

- Pavement widening to be performed in accordance with VDOT S't.d.WP-2
- S't.d.UD-4 Req'd., see plan sheets for detailed locations.
- S't.d.UD-2 Req'd., see plan sheets for detailed locations.
- When widening existing pavement, the pavement subgrade slope shall be designed such that the existing pavement subbase material can properly drain to a standard UD-4 edge drain.
- When widening the existing pavement the bottom of the new BM-25.0A shall be placed even with the bottom of the existing base asphalt.
- The final surface course shall be placed in continuous operation across the full pavement width after all previous layers have been completed and shall include all areas where eradication of existing pavement markings have been performed for temporary tie-ins.
- When liquid asphalt is used as a curing material for the cement stabilized course, it shall be liquid asphalt CRS-1, CR-1h or CMS-2 applied at a rate of 0.2 gal/sy. Where necessary for maintenance of traffic, cover material consisting of No.10 Aggregate of Grading B Sand shall be applied at a rate of 10 lbs/sy. All costs for such curing and materials shall be included in the bid price for the cement stabilized layer.
- Transverse pavement build-up shall be in conformance with the Asphalt Concrete Build-up Detail on sheet 2B(14). Longitudinal build-up shall be in conformance with VDOT Standard ACOT-1.
- The VDOT District Materials Engineer shall be notified within 24 hours of exposing the existing concrete, and at least 48 hours prior to the placement of widening pavement, to allow for verification of the exposed edge of pavement.
- Existing underdrain locations shown in typical sections are assumed. All existing underdrains that are impacted by the proposed reconstruction shall be removed and replaced to promote positive drainage.



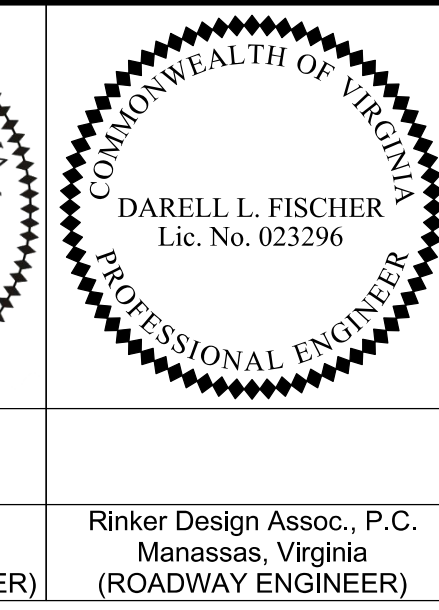
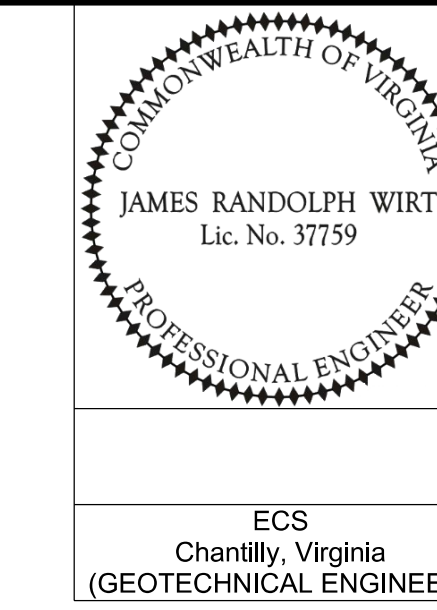
N.T.S.	VDOT PROJECT NO. 0495-029-419	SHEET NO. 2A AREA 4
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APPROVED FOR CONSTRUCTION

NOVA DISTRICT

10/26/2022

PROJECT MANAGER VDOT - Rupal Shah, P.E. (703) 259-2362
 SURVEYED BY, DATE RDA - Nicholas Kougoullis, LS (703) 334-0837, 12/2021
 DESIGN BY RDA - Darrell Fischer, P.E. (703) 334-0823
 Dewberry - Ron Jakomilich, P.E. (703) 849-0651
 SUBSURFACE UTILITY BY, DATE Accumark - Michael Taylor, LS (703) 635-3060, 12/2021



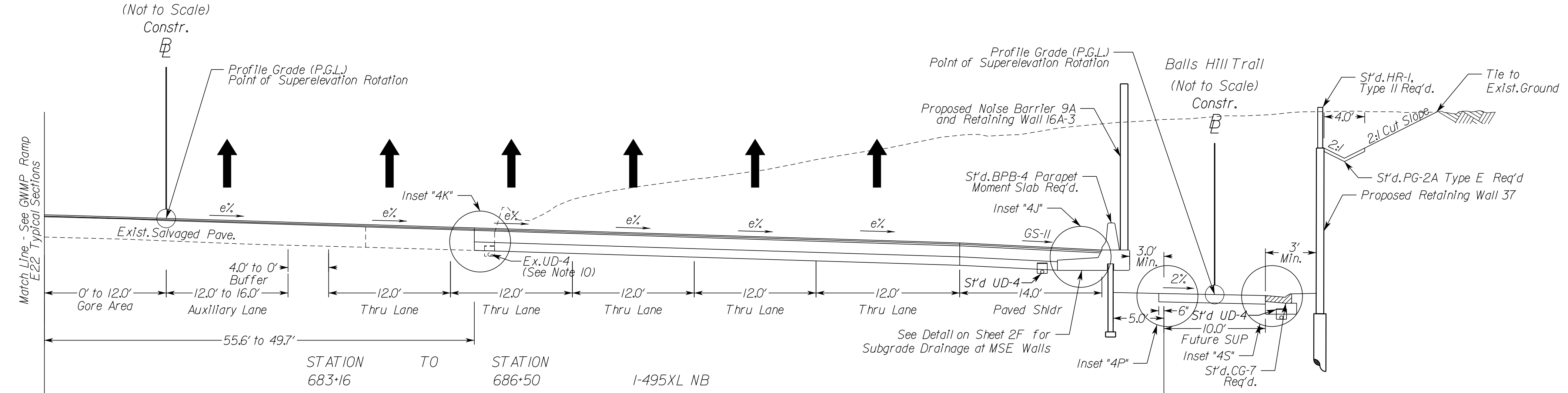
REVISED	STATE	ROUTE	STATE	VDOT PROJECT NO.	SHEET NO.
	VA	495		0495-029-419 C501 RW201	2A(1) AREA 4

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

ECS Chantilly, Virginia (GEOTECHNICAL ENGINEER)
 Rinker Design Assoc., P.C. Manassas, Virginia (ROADWAY ENGINEER)

Typical Sections

I-495XL Northbound Superelevated Section, 7 Lane Interstate Geometric Design Standard for Urban Interstate (GS-INT); V=60 MPH



* Type I Sta. 683+78 to Sta. 684+03
 Type II Sta. 684+03 to Sta. 684+31
 Type III Sta. 684+31 to Sta. 684+54
 Modified Sta. 684+54 to Sta. 685+09

**8.05% RT to 2.00% RT
 Sta. 683+78 to 685+09

STATION TO STATION
 683+78 TO 685+09 I-495XL NB

**2.00% RT
 Sta. 685+41 to 686+50

STATION TO STATION
 685+09 TO 686+50 I-495XL NB

TYPICAL SECTION NOTES

- Pavement widening to be performed in accordance with VDOT S'd.WP-2
- S'd.UD-4 Req'd., see plan sheets for detailed locations.
- S'd.UD-2 Req'd., see plan sheets for detailed locations.
- When widening existing pavement, the pavement subgrade slope shall be designed such that the existing pavement subbase material can properly drain to a standard UD-4 edge drain.
- When widening the existing pavement the bottom of the new BM-25.0A shall be placed even with the bottom of the existing base asphalt.
- The final surface course shall be placed in continuous operation across the full pavement width after all previous layers have been completed and shall include all areas where eradication of existing pavement markings have been performed for temporary tie-ins.
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- Transverse pavement build-up shall be in conformance with the Asphalt Concrete Build-up Detail on sheet 2B(14). Longitudinal build-up shall be in conformance with VDOT Standard ACOT-1.
- The VDOT District Materials Engineer shall be notified within 24 hours of exposing the existing concrete, and at least 48 hours prior to the placement of widening pavement, to allow for verification of the exposed edge of pavement.
- Existing underdrain locations shown in typical sections are assumed. All existing underdrains that are impacted by the proposed reconstruction shall be removed and replaced to promote positive drainage.

STATION TO STATION
 683+16 TO 683+86 I-495XL NB
 37+35 TO 38+11 Balls Hill Trail

STATION TO STATION
 683+86 TO 685+42 I-495XL NB
 38+11 TO 39+67 Balls Hill Trail

STATION TO STATION
 685+42 TO 686+50 I-495XL NB
 39+67 TO 40+75 Balls Hill Trail

N.T.S.	VDOT PROJECT NO. 0495-029-419	SHEET NO. 2A(1) AREA 4
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APPROVED FOR CONSTRUCTION

NOVA DISTRICT

PROJECT MANAGER_VDOT - Rita Pal...
 SURVEYED BY, DATE_RDA - Nicholas...
 DESIGN BY_RDA - Darrell Fischer...
 SUBSURFACE UTILITY BY, DATE_Accumark - Michael Taylor...

 JAMES RANDOLPH WIRT Lic. No. 37759 PROFESSIONAL ENGINEER	 DARELL L. FISCHER Lic. No. 023296 PROFESSIONAL ENGINEER

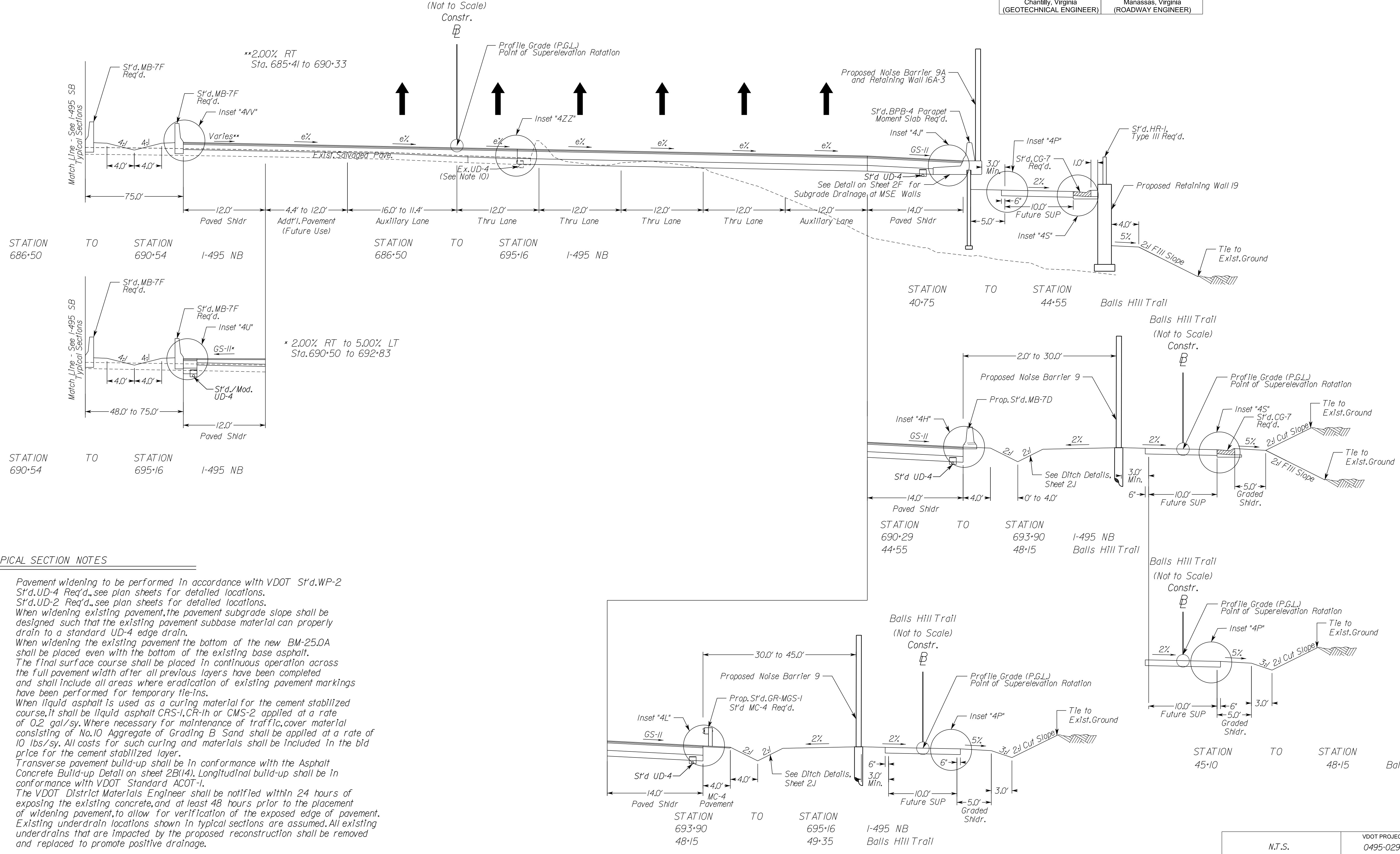
REVISED	STATE	ROUTE	STATE	VDOT PROJECT NO.	SHEET NO.
	VA	495		0495-029-419 C501 RW201	2A(2) AREA 4

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

Typical Sections

I-495XL Northbound Continued Superelevated Section, 6 Lane Interstate

Geometric Design Standard for Urban Interstate (GS-INT): V=60 MPH
 (Not to Scale)



TYPICAL SECTION NOTES

- Pavement widening to be performed in accordance with VDOT S't.d.WP-2
- S't.d.UD-4 Req'd., see plan sheets for detailed locations.
- S't.d.UD-2 Req'd., see plan sheets for detailed locations.
- When widening existing pavement, the pavement subgrade slope shall be designed such that the existing pavement subbase material can properly drain to a standard UD-4 edge drain.
- When widening the existing pavement the bottom of the new BM-25.0A shall be placed even with the bottom of the existing base asphalt.
- The final surface course shall be placed in continuous operation across the full pavement width after all previous layers have been completed and shall include all areas where eradication of existing pavement markings have been performed for temporary tie-ins.
- When liquid asphalt is used as a curing material for the cement stabilized course, it shall be liquid asphalt CRS-1, CR-1h or CMS-2 applied at a rate of 0.2 gal/sy. Where necessary for maintenance of traffic, cover material consisting of No.10 Aggregate of Grading B Sand shall be applied at a rate of 10 lbs/sy. All costs for such curing and materials shall be included in the bid price for the cement stabilized layer.
- Transverse pavement build-up shall be in conformance with the Asphalt Concrete Build-up Detail on sheet 2B(14). Longitudinal build-up shall be in conformance with VDOT Standard ACOT-1.
- The VDOT District Materials Engineer shall be notified within 24 hours of exposing the existing concrete, and at least 48 hours prior to the placement of widening pavement, to allow for verification of the exposed edge of pavement.
- Existing underdrain locations shown in typical sections are assumed. All existing underdrains that are impacted by the proposed reconstruction shall be removed and replaced to promote positive drainage.

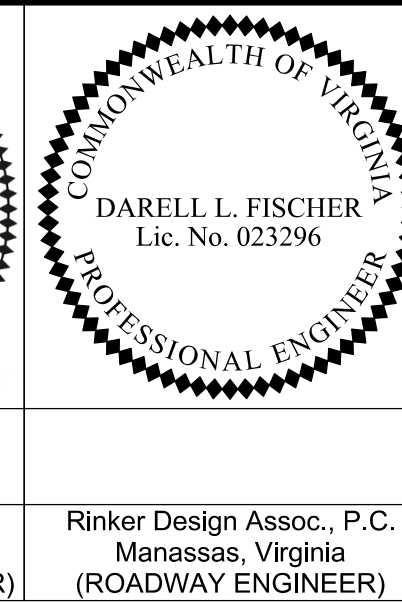
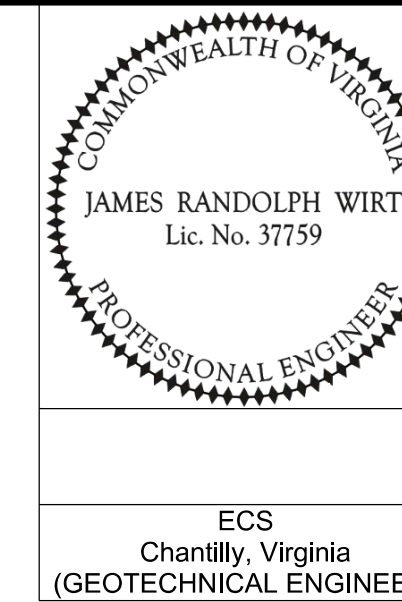
APPROVED FOR CONSTRUCTION

N.T.S.	VDOT PROJECT NO. 0495-029-419	SHEET NO. 2A(2) AREA 4
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NOVA DISTRICT

10/26/2022

PROJECT MANAGER VDOT - Rupal Shah, P.E. (703) 259-2362
 SURVEYED BY, DATE RDA - Nicholas Kaugaulis, LS (703) 334-0837, 12/2021
 DESIGN BY RDA - Darrell Fischer, P.E. (703) 334-0823
 Dewberry - Ron Jakomlitch, P.E. (703) 849-0651
 SUBSURFACE UTILITY BY, DATE Accumark - Michael Taylor, LS (703) 635-3060, 12/2021



REVISED	STATE	ROUTE	STATE PROJECT NO.	SHEET NO.
	VA.	495	0495-029-419 C501 RW201	2A(3) AREA 4

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

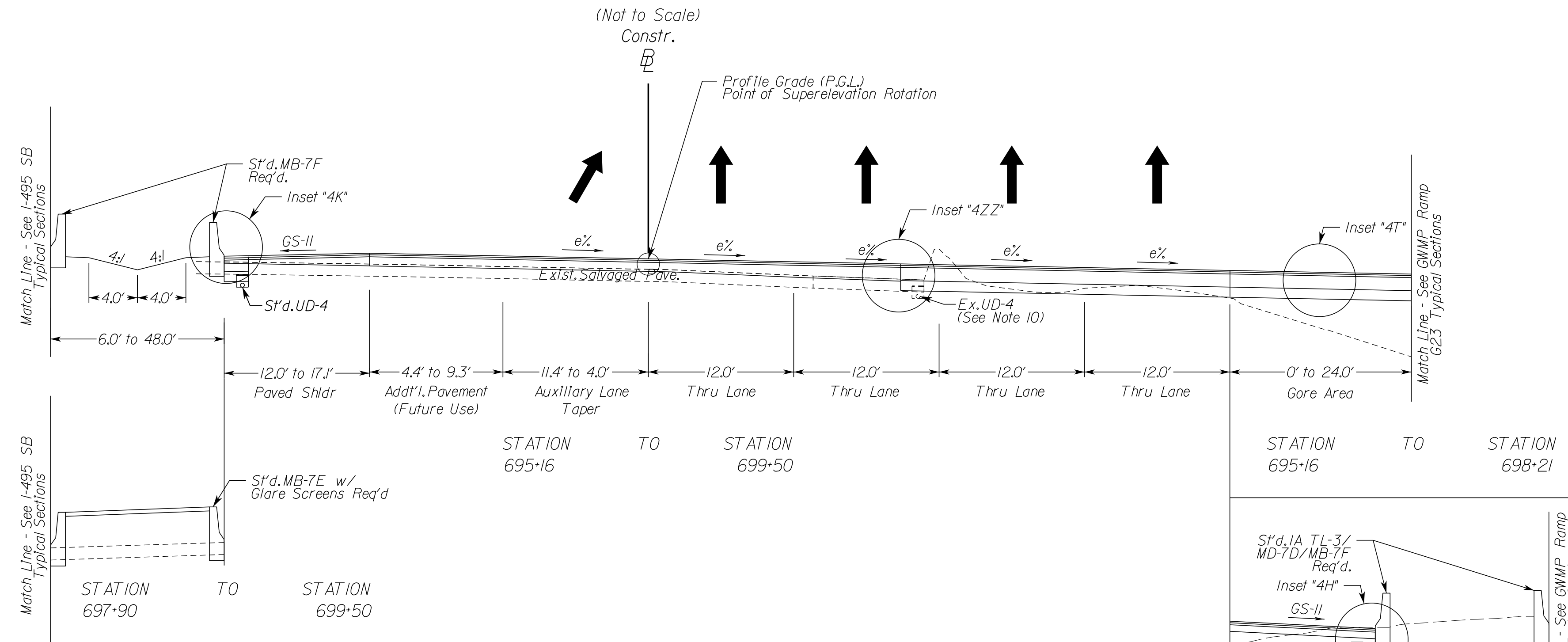
ECS
 Chantilly, Virginia
 (GEOTECHNICAL ENGINEER)

Rinker Design Assoc., P.C.
 Manassas, Virginia
 (ROADWAY ENGINEER)

Typical Sections

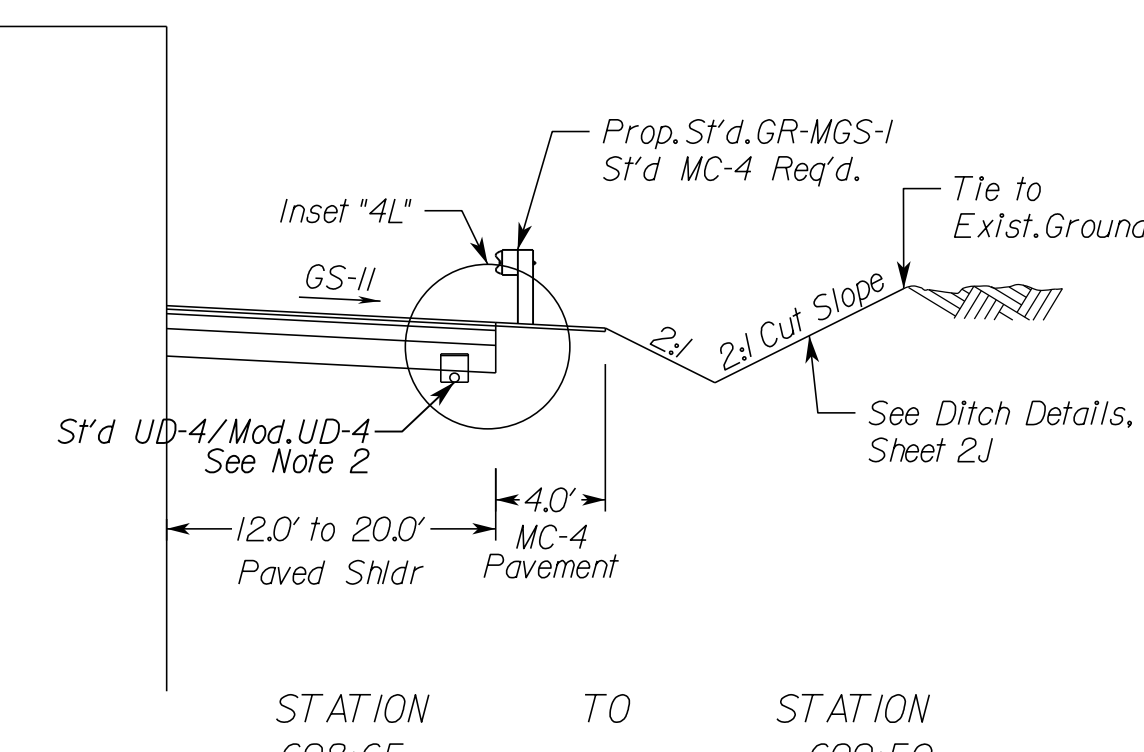
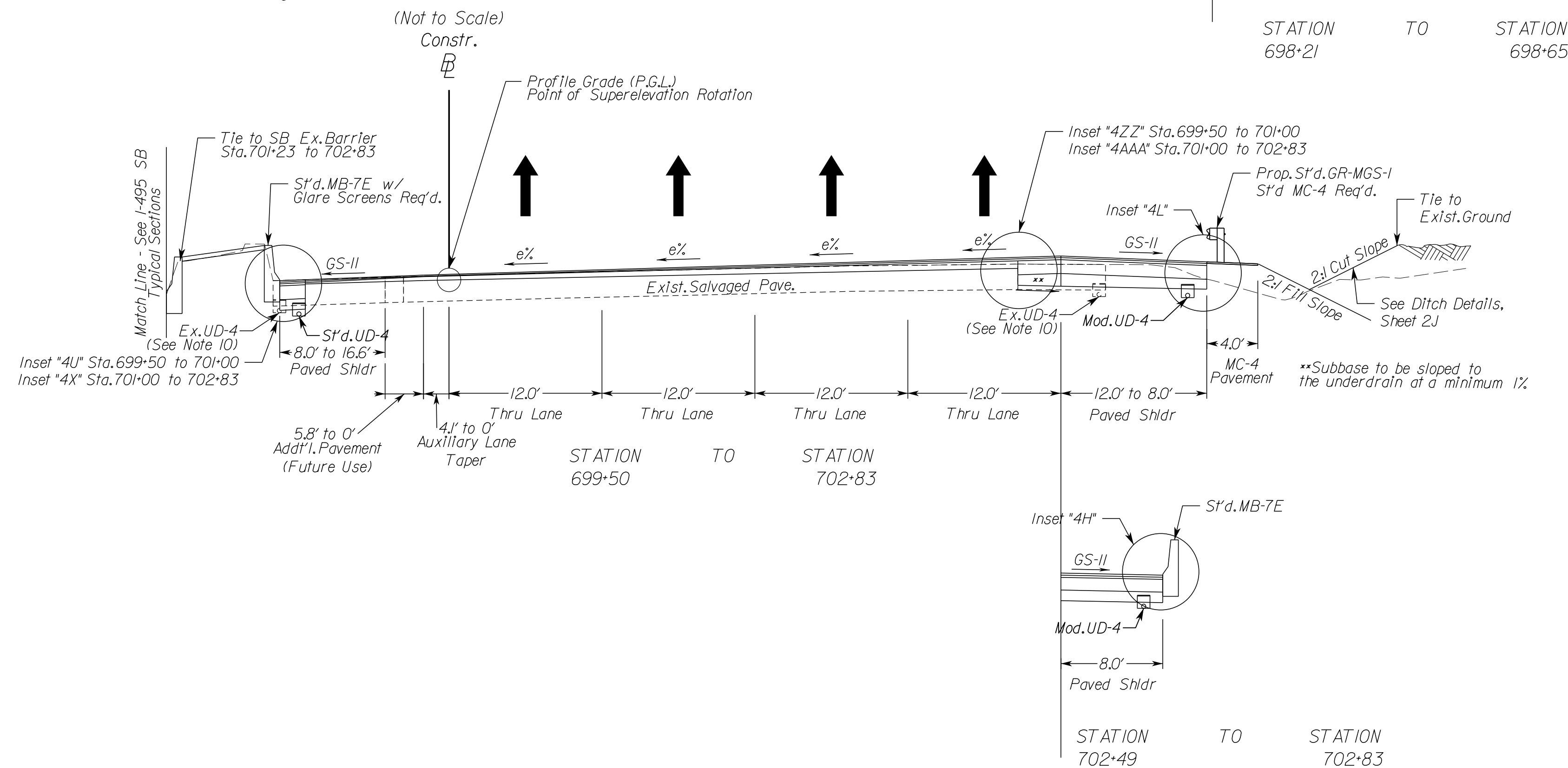
I-495XL Northbound Continued Superelevated Section, 6 Lane Interstate

Geometric Design Standard for Urban Interstate (GS-INT): V-60 MPH



I-495XL Northbound Continued Superelevated Section, 6 Lane Interstate

Geometric Design Standard for Urban Interstate (GS-INT): V-60 MPH



TYPICAL SECTION NOTES

- Pavement widening to be performed in accordance with VDOT St'd.WP-2
- St'd.UD-4 Req'd., see plan sheets for detailed locations.
- St'd.UD-2 Req'd., see plan sheets for detailed locations.
- When widening existing pavement, the pavement subgrade slope shall be designed such that the existing pavement subbase material can properly drain to a standard UD-4 edge drain.
- When widening the existing pavement the bottom of the new BM-25.0A shall be placed even with the bottom of the existing base asphalt.
- The final surface course shall be placed in continuous operation across the full pavement width after all previous layers have been completed and shall include all areas where eradication of existing pavement markings have been performed for temporary tie-ins.
- When liquid asphalt is used as a curing material for the cement stabilized course, it shall be liquid asphalt CRS-1, CR-1h or CMS-2 applied at a rate of 0.2 gal/sy. Where necessary for maintenance of traffic, cover material consisting of No.10 Aggregate of Grading B Sand shall be applied at a rate of 10 lbs/sy. All costs for such curing and materials shall be included in the bid price for the cement stabilized layer.
- Transverse pavement build-up shall be in conformance with the Asphalt Concrete Build-up Detail on sheet 2B(14). Longitudinal build-up shall be in conformance with VDOT Standard ACOT-1.
- The VDOT District Materials Engineer shall be notified within 24 hours of exposing the existing concrete, and at least 48 hours prior to the placement of widening pavement, to allow for verification of the exposed edge of pavement.
- Existing underdrain locations shown in typical sections are assumed. All existing underdrains that are impacted by the proposed reconstruction shall be removed and replaced to promote positive drainage.

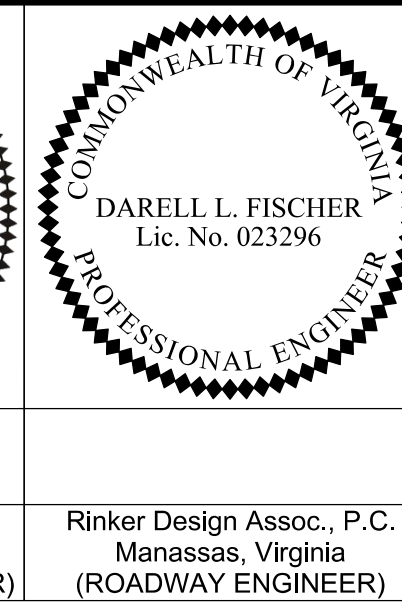
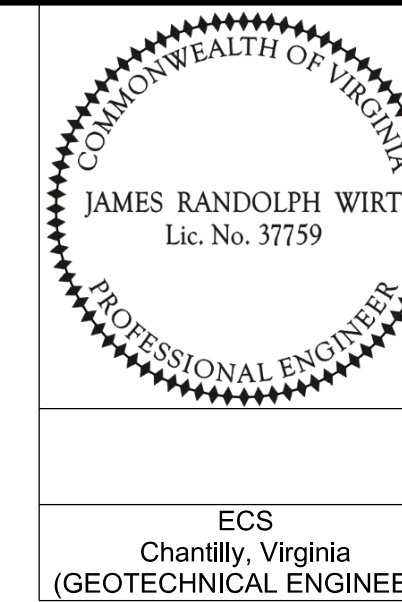
N.T.S.	VDOT PROJECT NO. 0495-029-419	SHEET NO. 2A(3) AREA 4
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APPROVED FOR CONSTRUCTION

NOVA DISTRICT

PROJECT MANAGER VDOT - Rupal Shah, P.E. (703) 259-2362
 SURVEYED BY, DATE RDA - Nicholas Kougoullis, LS (703) 334-0837, 12/2021
 DESIGN BY RDA - Darrell Fischer, P.E. (703) 334-0823
 SUBSURFACE UTILITY BY, DATE Accurmark - Michael Taylor, LS (703) 635-3060, 12/2021

Typical Sections



REVISION	STATE	ROUTE	STATE	VDOT PROJECT NO.	SHEET NO.
	VA	495		0495-029-419 C501 RW201	2A(4) AREA 4

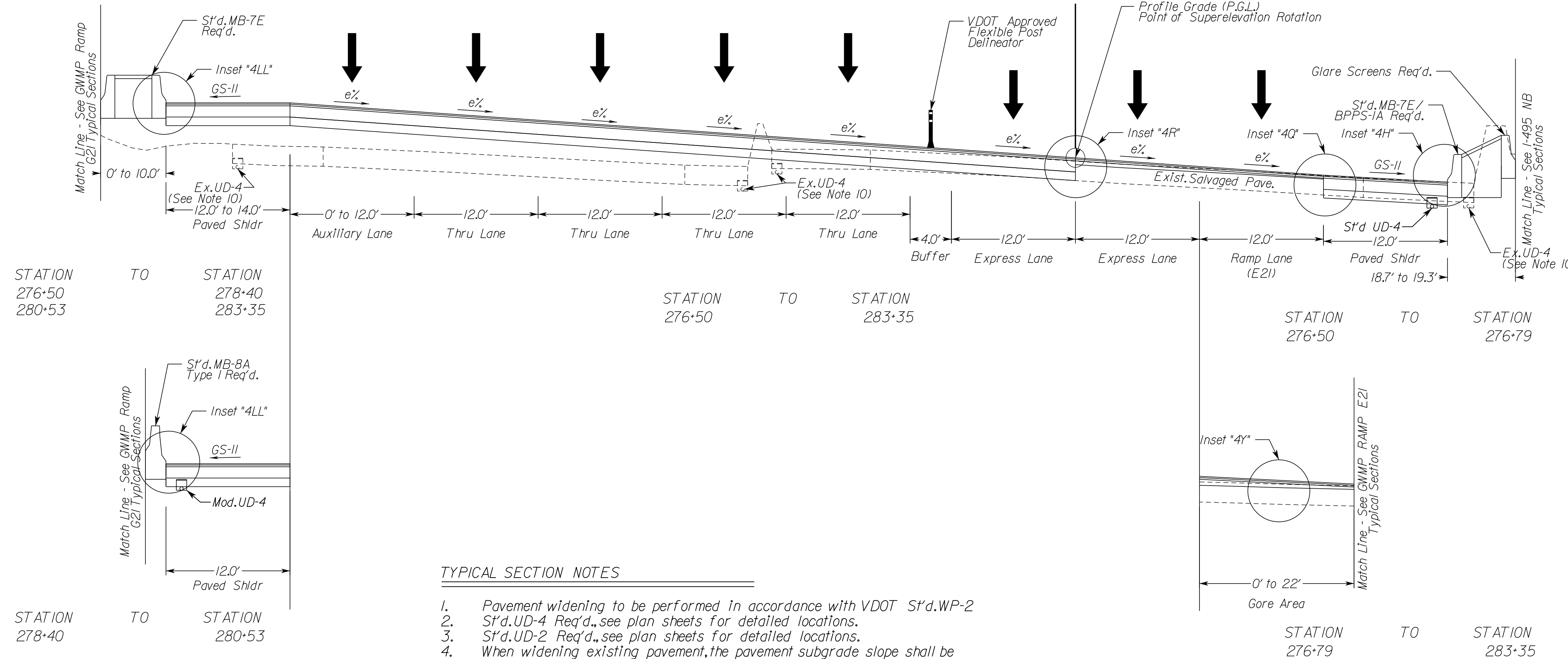
DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT

ECS
Chantilly, Virginia
(GEOTECHNICAL ENGINEER)

Rinker Design Assoc., P.C.
Manassas, Virginia
(ROADWAY ENGINEER)

I-495XL Southbound Superelevated Section, 6 Lane Interstate

Geometric Design Standard for Urban Interstate (GS-INT): V=60 MPH
 (Not to Scale)
 Constr.



TYPICAL SECTION NOTES

- Pavement widening to be performed in accordance with VDOT S't.d.WP-2
- S't.d.UD-4 Req'd., see plan sheets for detailed locations.
- S't.d.UD-2 Req'd., see plan sheets for detailed locations.
- When widening existing pavement, the pavement subgrade slope shall be designed such that the existing pavement subbase material can properly drain to a standard UD-4 edge drain.
- When widening the existing pavement the bottom of the new BM-25.0A shall be placed even with the bottom of the existing base asphalt.
- The final surface course shall be placed in continuous operation across the full pavement width after all previous layers have been completed and shall include all areas where eradication of existing pavement markings have been performed for temporary tie-ins.
- When liquid asphalt is used as a curing material for the cement stabilized course, it shall be liquid asphalt CRS-1, CR-1h or CMS-2 applied at a rate of 0.2 gal/sy. Where necessary for maintenance of traffic, cover material consisting of No. 10 Aggregate of Grading B Sand shall be applied at a rate of 10 lbs/sy. All costs for such curing and materials shall be included in the bid price for the cement stabilized layer.
- Transverse pavement build-up shall be in conformance with the Asphalt Concrete Build-up Detail on sheet 2B(14). Longitudinal build-up shall be in conformance with VDOT Standard ACOT-1.
- The VDOT District Materials Engineer shall be notified within 24 hours of exposing the existing concrete, and at least 48 hours prior to the placement of widening pavement, to allow for verification of the exposed edge of pavement.
- Existing underdrain locations shown in typical sections are assumed. All existing underdrains that are impacted by the proposed reconstruction shall be removed and replaced to promote positive drainage.

NOVA DISTRICT

10/26/2022

N.T.S.	VDOT PROJECT NO. 0495-029-419	SHEET NO. 2A(4) AREA 4
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APPROVED FOR CONSTRUCTION

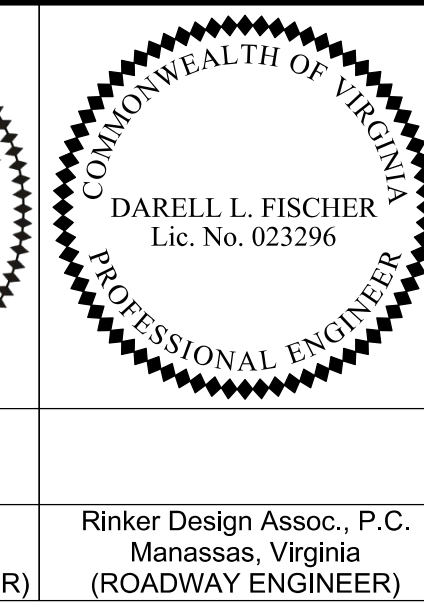
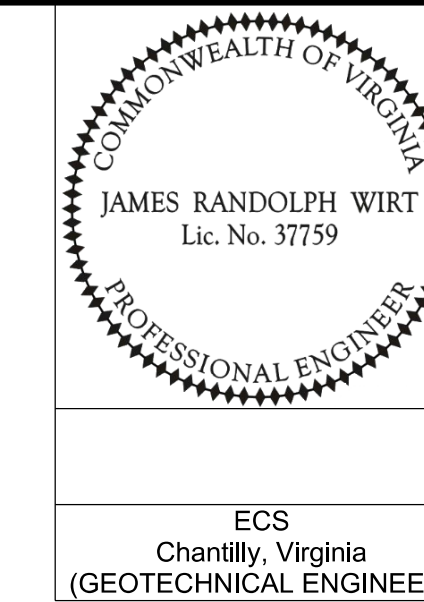
PROJECT MANAGER_VDOT - Rupal Shah, P.E. (703) 259-2362
 SURVEYED BY, DATE_RDA - Nicholas Kougoullis, L.S. (703) 334-0837, 12/2021
 DESIGN BY_RDA - Darrell Fischer, P.E. (703) 334-0823
 SUBSURFACE UTILITY BY, DATE_Accumark - Michael Taylor, L.S. (703) 635-3060, 12/2021

Typical Sections

I-495XL Southbound

Superelevated Section, 6 Lane Interstate

Geometric Design Standard for Urban Interstate (GS-INT): V=60 MPH
 (Not to Scale)
 Constr.

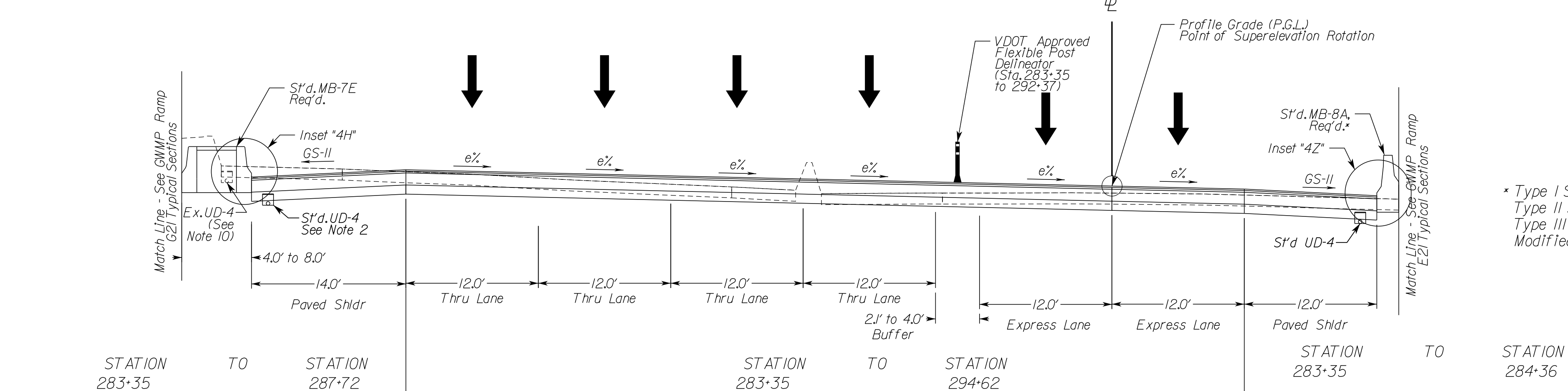


REVISED	STATE	ROUTE	STATE	VDOT PROJECT NO.	SHEET NO.
	VA.	495		0495-029-419 C501 RW201	2A(5) AREA 4

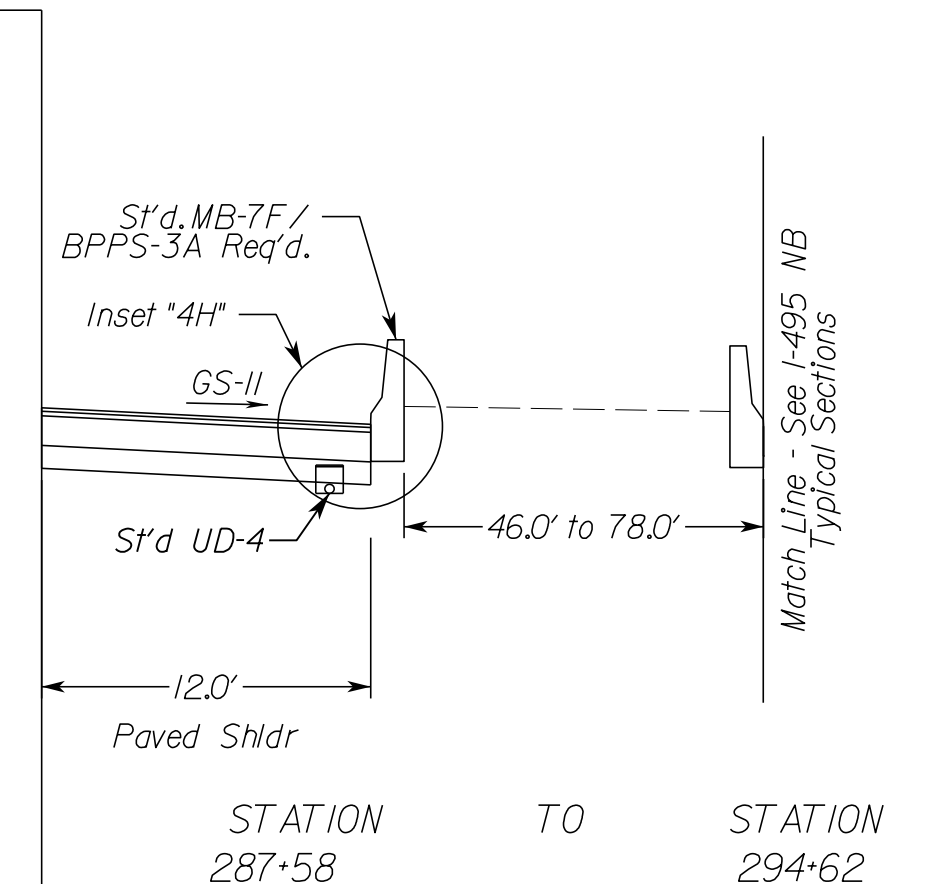
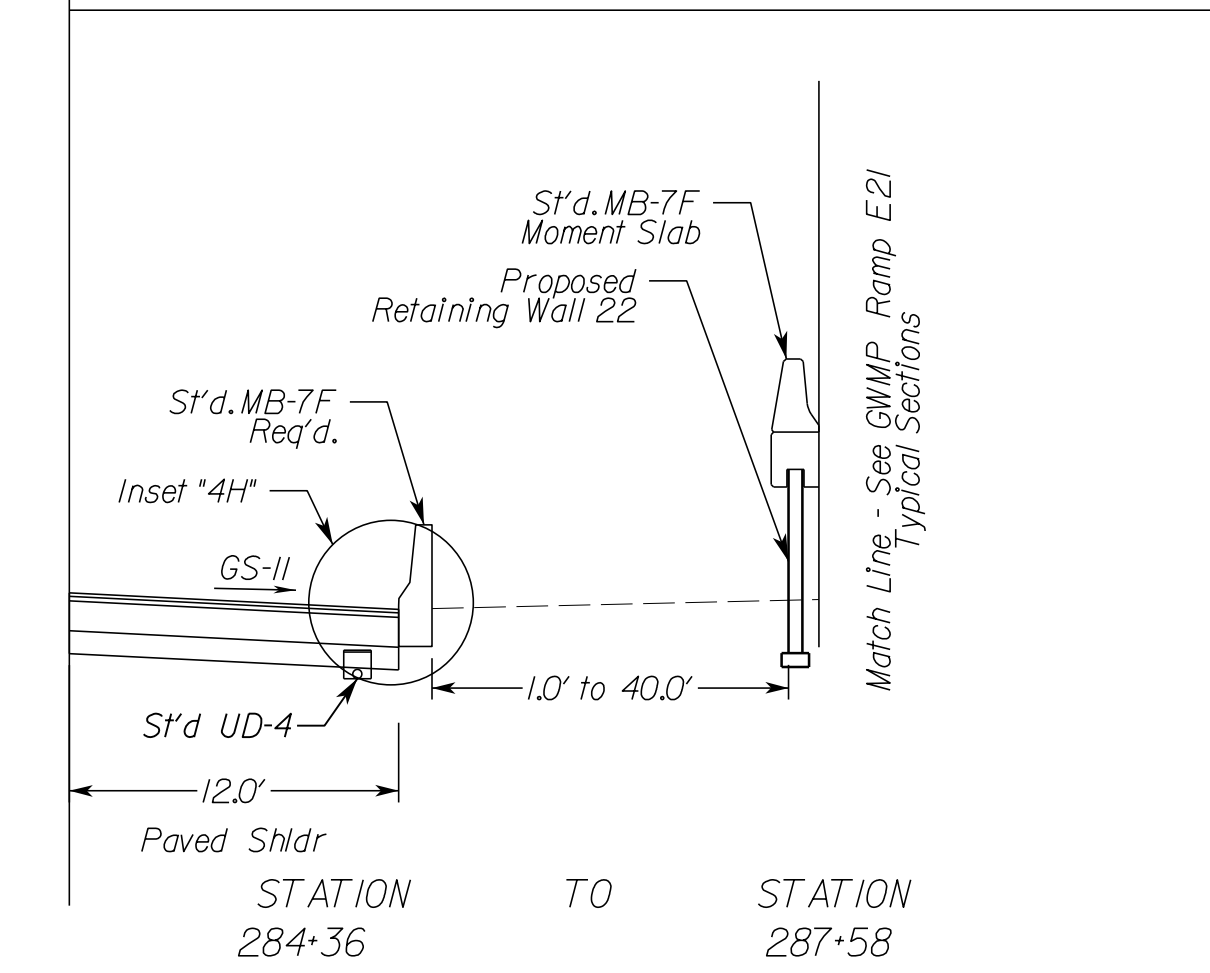
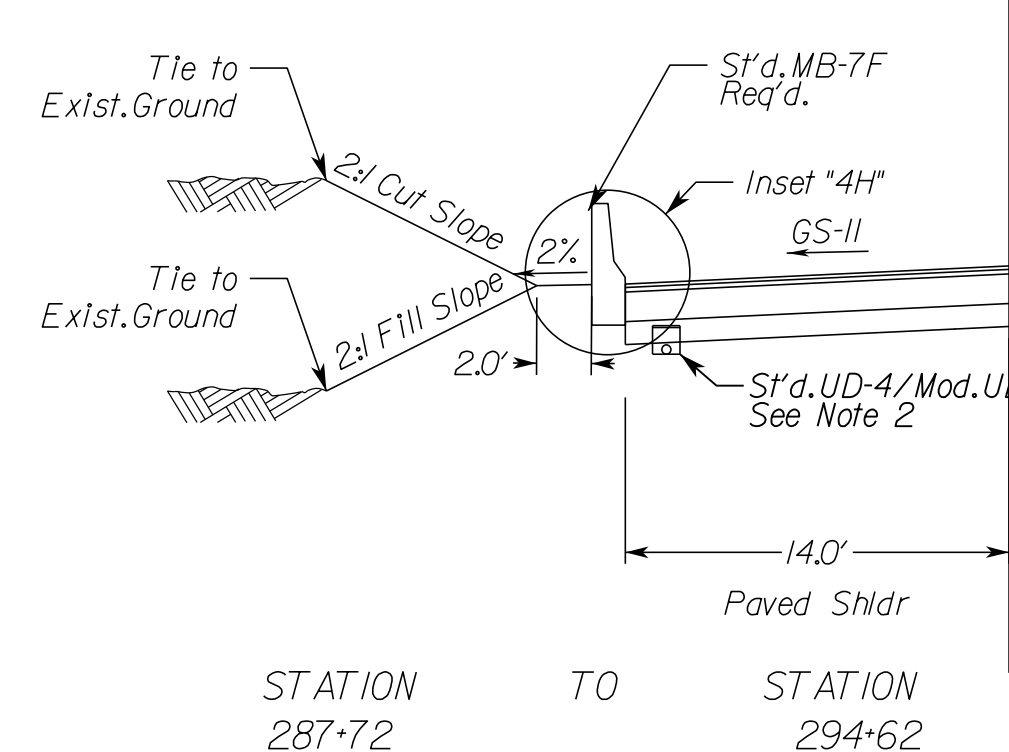
DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT

ECS
Chantilly, Virginia
(GEOTECHNICAL ENGINEER)

Rinker Design Assoc., P.C.
Manassas, Virginia
(ROADWAY ENGINEER)



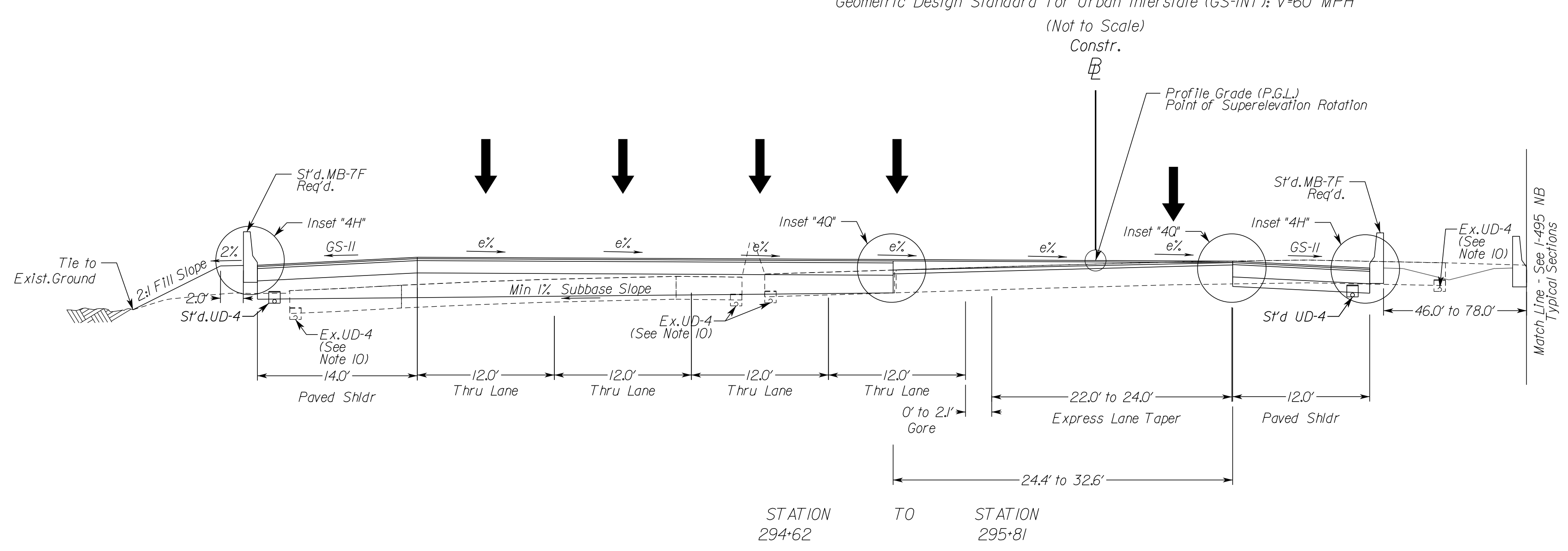
* Type I Sta. 283+35 to Sta. 283+75
 Type II Sta. 283+75 to Sta. 284+08
 Type III Sta. 284+08 to Sta. 284+32
 Modified Sta. 284+32 to Sta. 284+36



I-495XL Southbound

Superelevated Section, 6 Lane Interstate

Geometric Design Standard for Urban Interstate (GS-INT): V=60 MPH
 (Not to Scale)
 Constr.



- TYPICAL SECTION NOTES**
- Pavement widening to be performed in accordance with VDOT St'd. WP-2 St'd. UD-4 Req'd., see plan sheets for detailed locations.
 - St'd. UD-2 Req'd., see plan sheets for detailed locations.
 - When widening existing pavement, the pavement subgrade slope shall be designed such that the existing pavement subbase material can properly drain to a standard UD-4 edge drain.
 - When widening the existing pavement the bottom of the new BM-25.0A shall be placed even with the bottom of the existing base asphalt.
 - The final surface course shall be placed in continuous operation across the full pavement width after all previous layers have been completed and shall include all areas where eradication of existing pavement markings have been performed for temporary tie-ins.
 - When liquid asphalt is used as a curing material for the cement stabilized course, it shall be liquid asphalt CRS-1, CR-1h or CMS-2 applied at a rate of 0.2 gal/sy. Where necessary for maintenance of traffic, cover material consisting of No. 10 Aggregate of Grading B Sand shall be applied at a rate of 10 lbs/sy. All costs for such curing and materials shall be included in the bid price for the cement stabilized layer.
 - Transverse pavement build-up shall be in conformance with the Asphalt Concrete Build-up Detail on sheet 2B(14). Longitudinal build-up shall be in conformance with VDOT Standard ACOT-1.
 - The VDOT District Materials Engineer shall be notified within 24 hours of exposing the existing concrete, and at least 48 hours prior to the placement of widening pavement, to allow for verification of the exposed edge of pavement.
 - Existing underdrain locations shown in typical sections are assumed. All existing underdrains that are impacted by the proposed reconstruction shall be removed and replaced to promote positive drainage.

N.T.S.	VDOT PROJECT NO. 0495-029-419	SHEET NO. 2A(5) AREA 4
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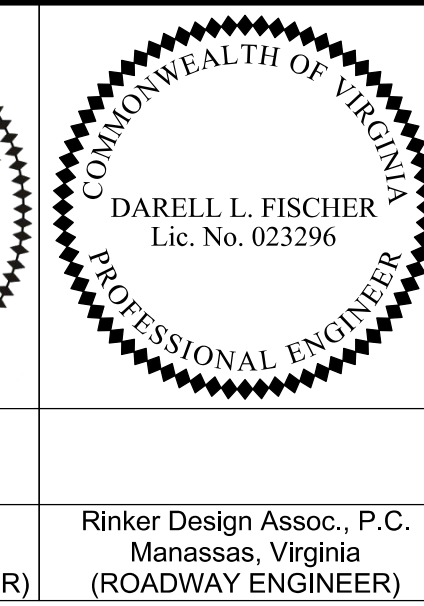
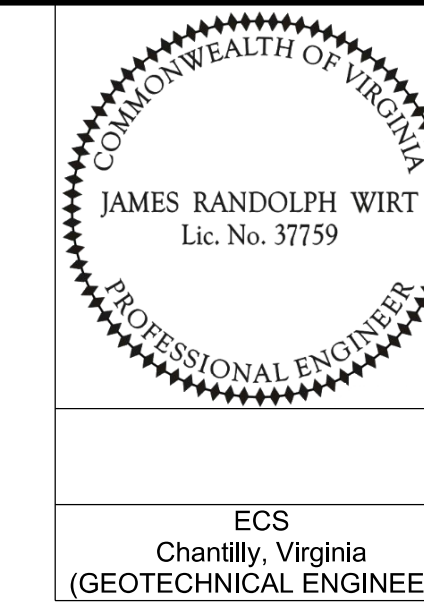
APPROVED FOR CONSTRUCTION

NOVA DISTRICT

10/26/2022

PROJECT MANAGER_VDOT - Rirapal Shah, P.E. (703) 259-2362
 SURVEYED BY, DATE_RDA - Nicholas Kougoullis, LS (703) 334-0837, 12/2021
 DESIGN BY_RDA - Darrell Fischer, P.E. (703) 334-0823
 SUBSURFACE UTILITY BY, DATE_Accumark - Michael Taylor, LS (703) 635-3060, 12/2021

Typical Sections



REVISED	STATE	ROUTE	STATE	VDOT PROJECT NO.	SHEET NO.
	VA.	495		0495-029-419 C501 RW201	2A(6) AREA 4

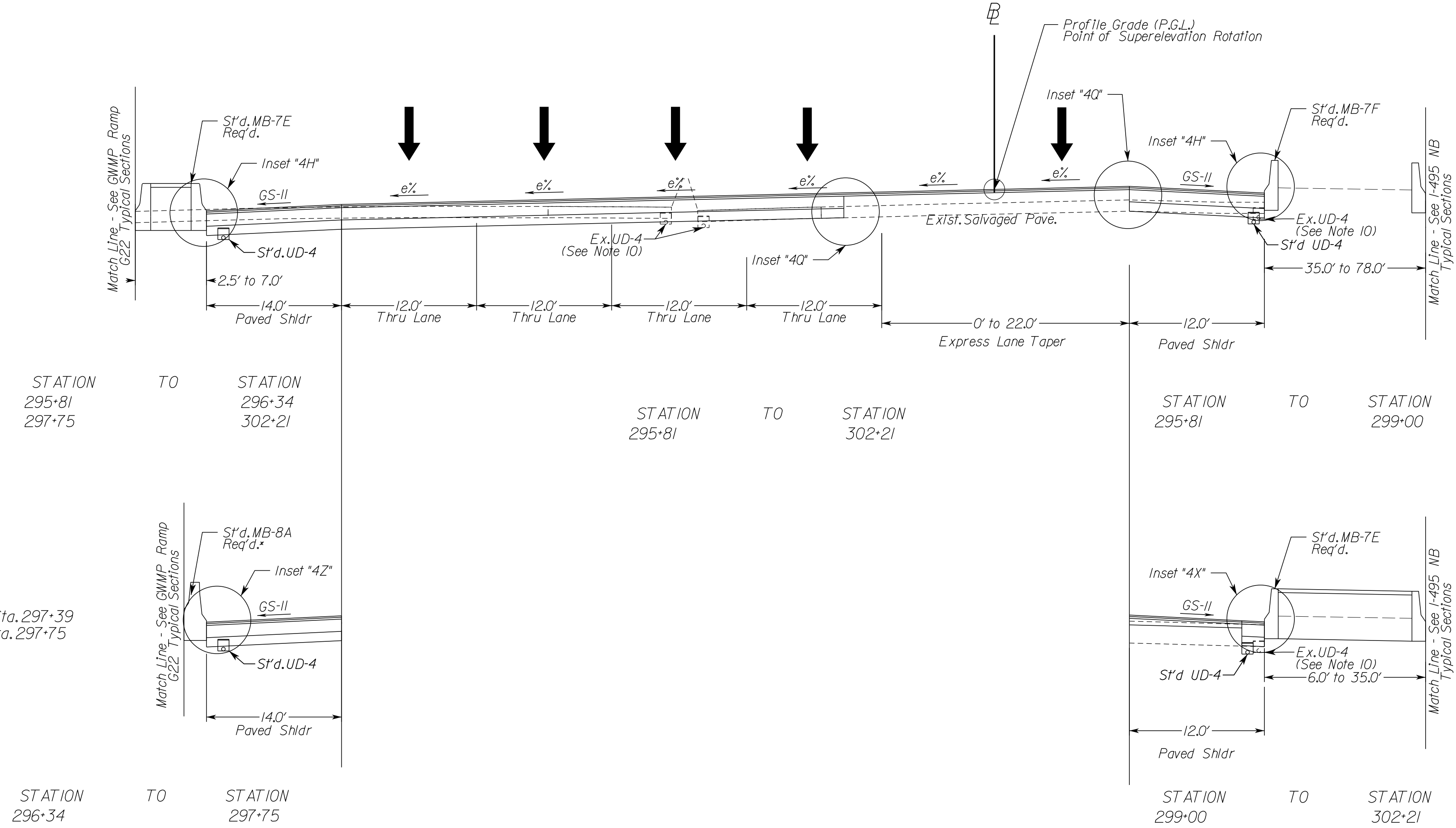
DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT

ECS Chantilly, Virginia (GEOTECHNICAL ENGINEER)
 Rinker Design Assoc., P.C. Manassas, Virginia (ROADWAY ENGINEER)

I-495XL Southbound Superelevated Section, 6 Lane Interstate

Geometric Design Standard for Urban Interstate (GS-INT): V-60 MPH

(Not to Scale)
Constr.



* Type II Sta. 296+34 to Sta. 297+39
 Type I Sta. 297+39 to Sta. 297+75

TYPICAL SECTION NOTES

1. Pavement widening to be performed in accordance with VDOT St'd. WP-2
2. St'd. UD-4 Req'd., see plan sheets for detailed locations.
3. St'd. UD-2 Req'd., see plan sheets for detailed locations.
4. When widening existing pavement, the pavement subgrade slope shall be designed such that the existing pavement subbase material can properly drain to a standard UD-4 edge drain.
5. When widening the existing pavement the bottom of the new BM-25.0A shall be placed even with the bottom of the existing base asphalt.
6. The final surface course shall be placed in continuous operation across the full pavement width after all previous layers have been completed and shall include all areas where eradication of existing pavement markings have been performed for temporary tie-ins.
7. When liquid asphalt is used as a curing material for the cement stabilized course, it shall be liquid asphalt CRS-1, CR-1h or CMS-2 applied at a rate of 0.2 gal/sy. Where necessary for maintenance of traffic, cover material consisting of No. 10 Aggregate of Grading B Sand shall be applied at a rate of 10 lbs/sy. All costs for such curing and materials shall be included in the bid price for the cement stabilized layer.
8. Transverse pavement build-up shall be in conformance with the Asphalt Concrete Build-up Detail on sheet 2B(14). Longitudinal build-up shall be in conformance with VDOT Standard ACOT-1.
9. The VDOT District Materials Engineer shall be notified within 24 hours of exposing the existing concrete, and at least 48 hours prior to the placement of widening pavement, to allow for verification of the exposed edge of pavement.
10. Existing underdrain locations shown in typical sections are assumed. All existing underdrains that are impacted by the proposed reconstruction shall be removed and replaced to promote positive drainage.

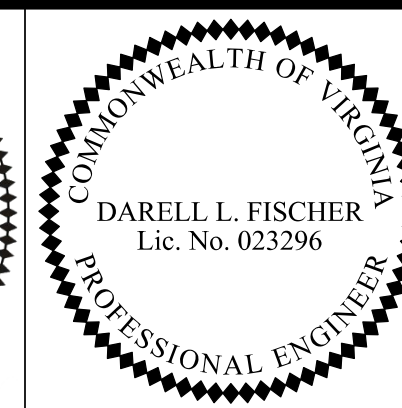
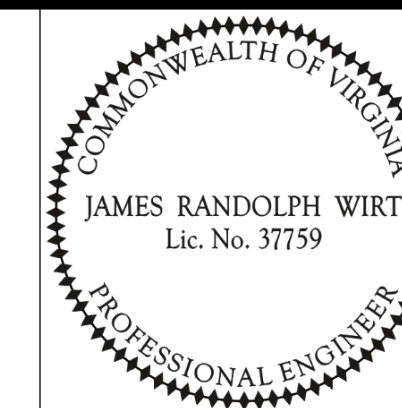
NOVA DISTRICT

10/26/2022

N.T.S.	VDOT PROJECT NO. 0495-029-419	SHEET NO. 2A(6) AREA 4
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APPROVED FOR CONSTRUCTION

PROJECT MANAGER_VDOT - Firapal,Shah, PE,(703)259-2362
 SURVEYED BY, DATE_RDA - Nicholas, Kaugaulis, LS,(703)334-0837,12/2021
 DESIGN BY_RDA - Darrell,Fischer, PE,(703)334-0823
 Dewberry - Ron, Jakoralich, PE,(703)849-0651
 SUBSURFACE UTILITY BY, DATE_Accumark - Michael,Taylor, LS,(703)635-3060,12/2021



REVISED	STATE	ROUTE	STATE PROJECT NO.	SHEET NO.
	VA	495	0495-029-419 C501 RW201	2B AREA 4

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

ECS
 Chantilly, Virginia
 (GEOTECHNICAL ENGINEER)

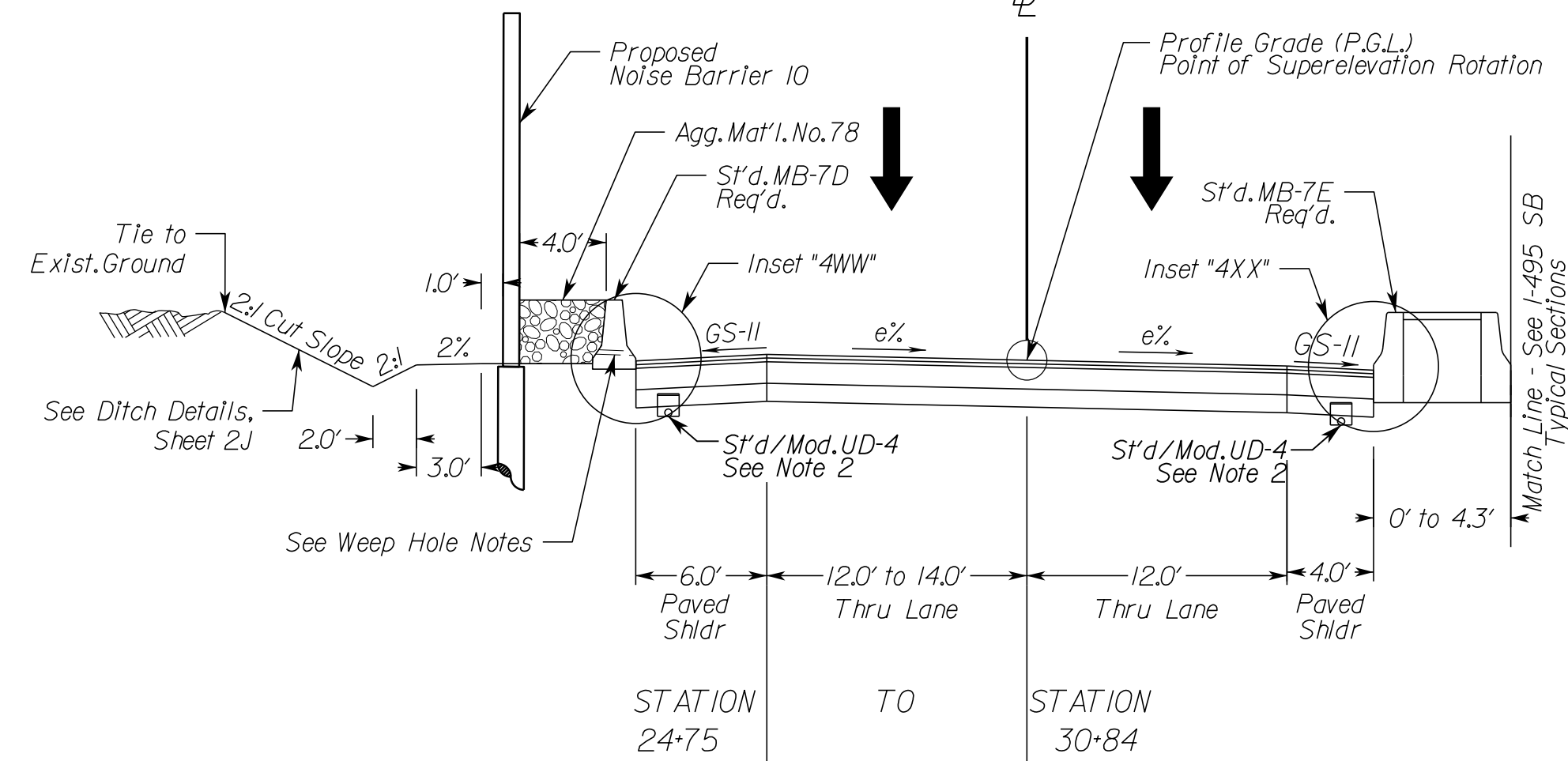
Rinker Design Assoc., P.C.
 Manassas, Virginia
 (ROADWAY ENGINEER)

Typical Sections

GWMP Ramp G2I Superelevated Section, Interchange Ramp

Geometric Design Standard for Interchange Ramps (GS-R): V=30 MPH

(Not to Scale)
 Constr.

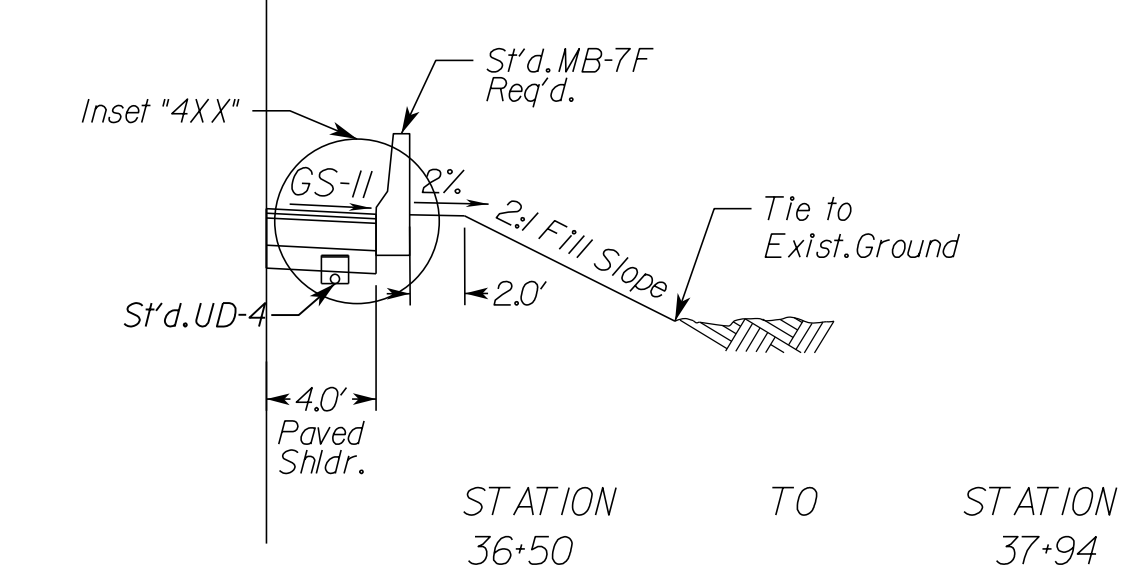
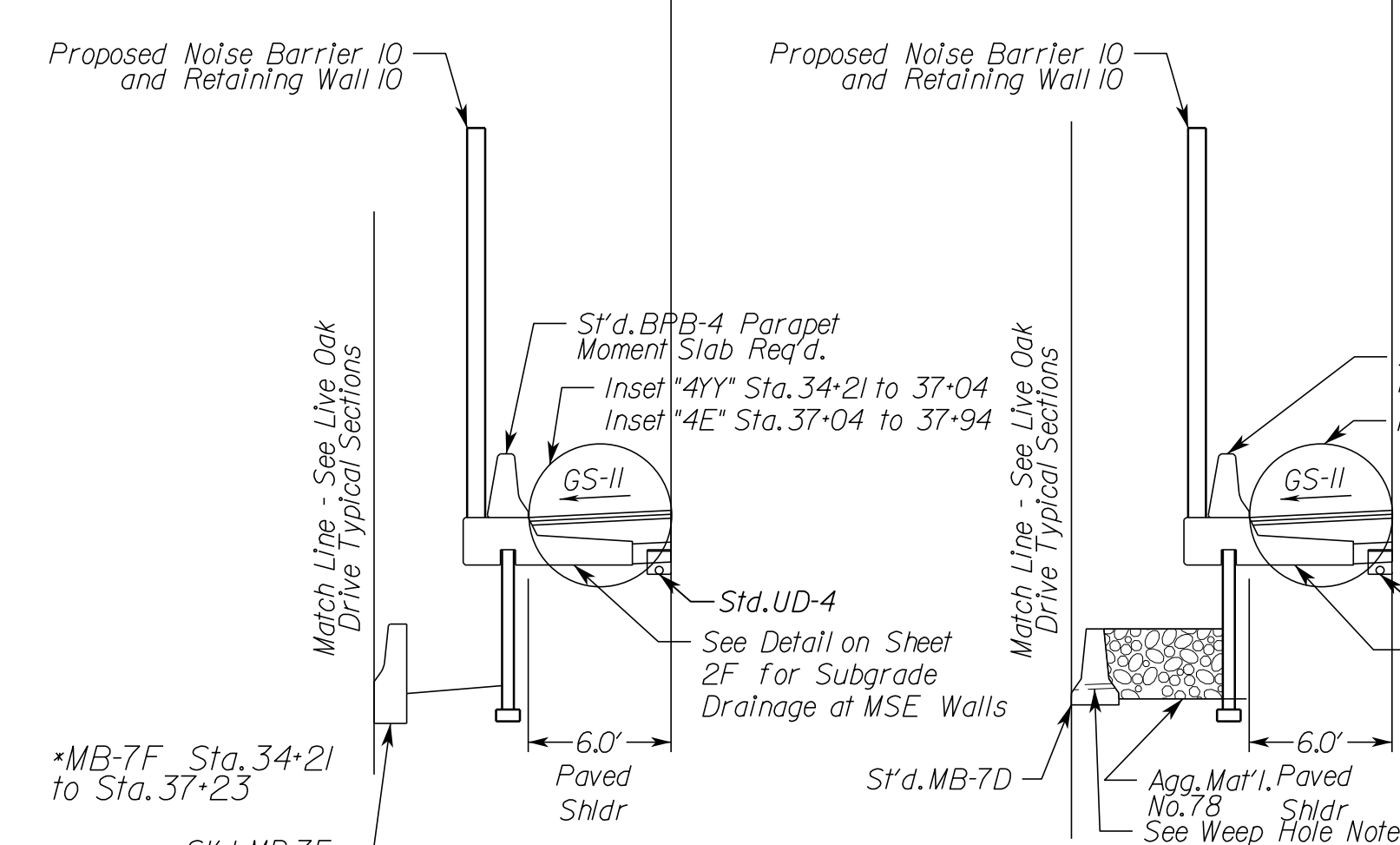
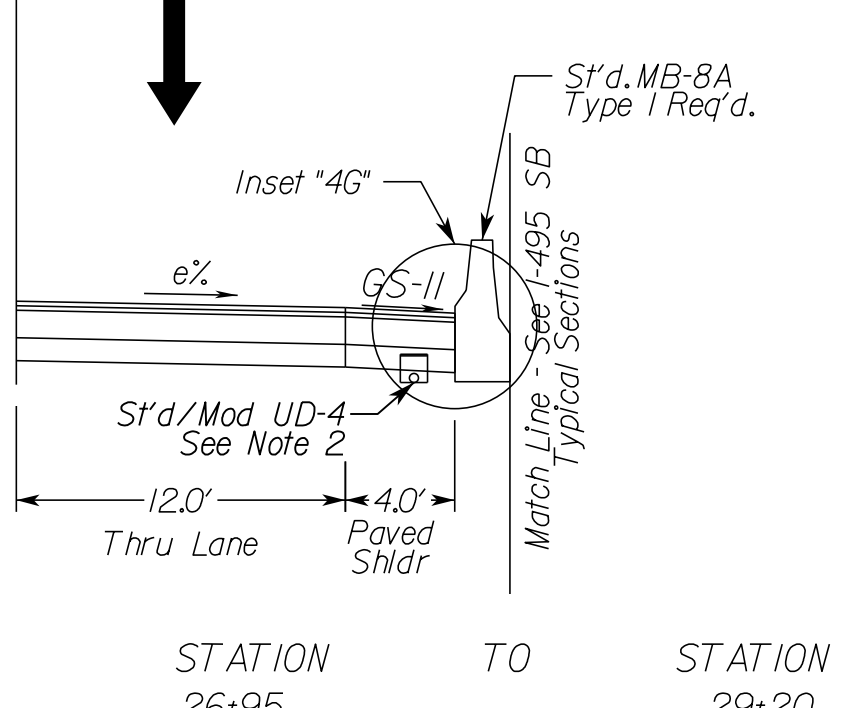
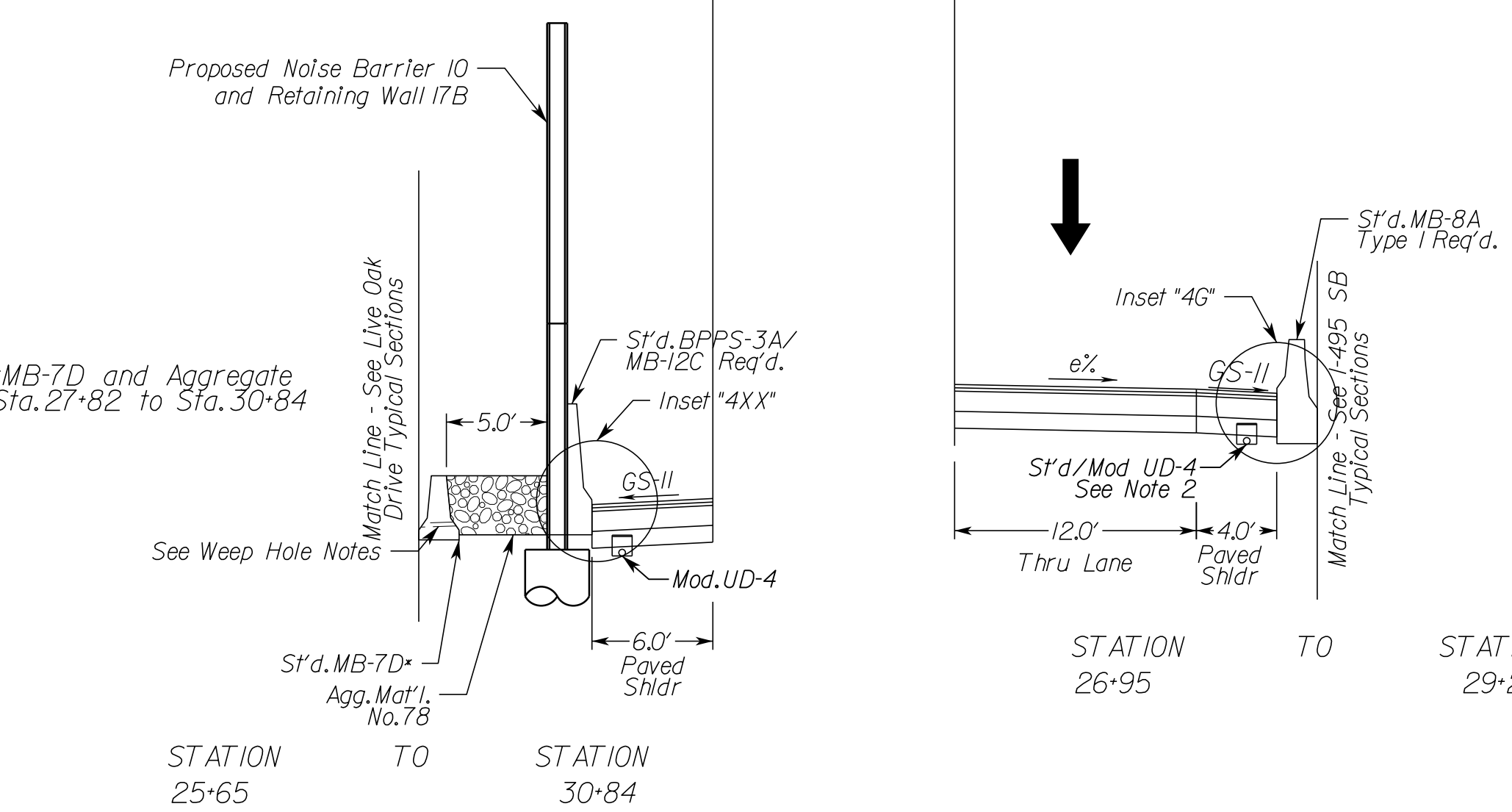
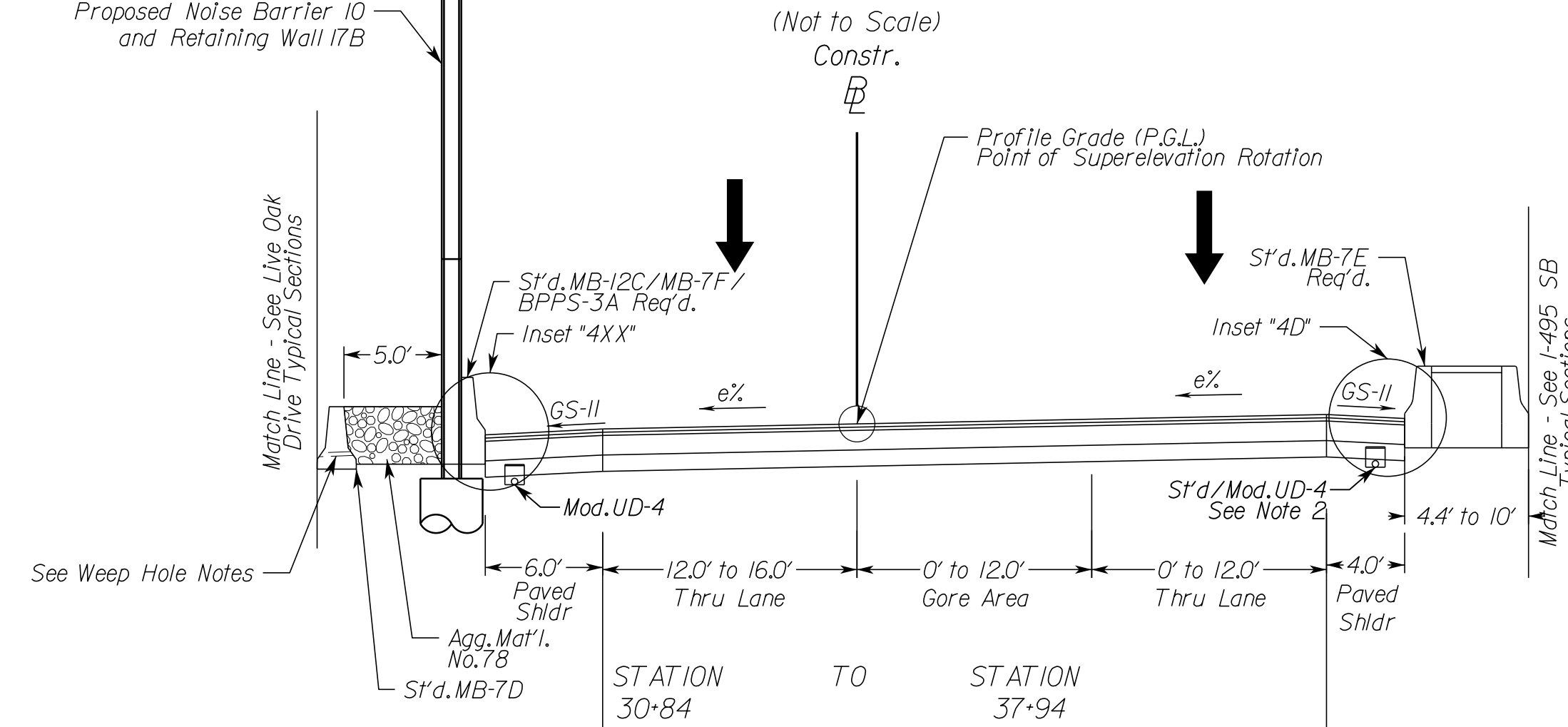


Weep Hole Notes:
 3" Drain Pipe, Max. Spacing 8'-0" O.C. Weep Hole Shall be Covered With 12"x12" Plastic Hardware Cloth 0.25" Mesh or Galvanized Steel Wire, Min. Wire Diameter 0.03", #4 Mesh Hardware Cloth Anchored Firmly to the Outside of the Structure.

GWMP Ramp G2I Superelevated Section, Interchange Ramp

Geometric Design Standard for Interchange Ramps (GS-R): V=30 MPH

(Not to Scale)
 Constr.



TYPICAL SECTION NOTES

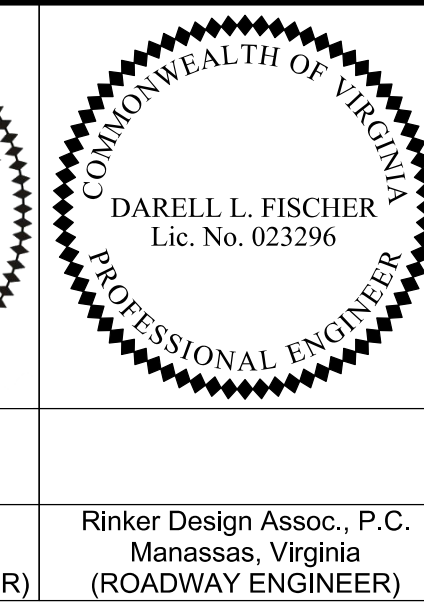
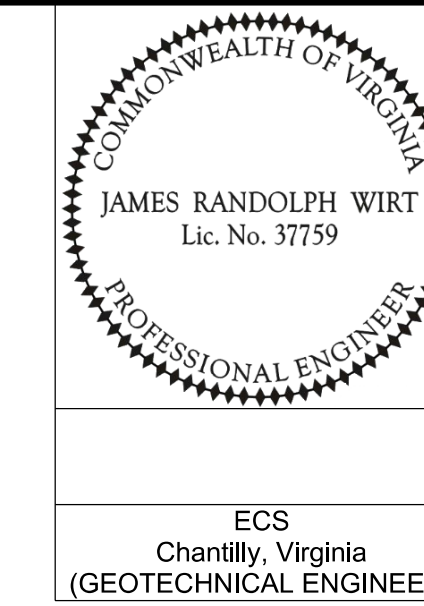
- Pavement widening to be performed in accordance with VDOT St'd.WP-2
- St'd.UD-4 Req'd., see plan sheets for detailed locations.
- St'd.UD-2 Req'd., see plan sheets for detailed locations.
- When widening existing pavement, the pavement subgrade slope shall be designed such that the existing pavement subbase material can properly drain to a standard UD-4 edge drain.
- When widening the existing pavement the bottom of the new BM-25.0A shall be placed even with the bottom of the existing base asphalt.
- The final surface course shall be placed in continuous operation across the full pavement width after all previous layers have been completed and shall include all areas where eradication of existing pavement markings have been performed for temporary tie-ins.
- When liquid asphalt is used as a curing material for the cement stabilized course, it shall be liquid asphalt CRS-1, CR-1h or CMS-2 applied at a rate of 0.2 gal/sy. Where necessary for maintenance of traffic, cover material consisting of No.10 Aggregate of Grading B Sand shall be applied at a rate of 10 lbs/sy. All costs for such curing and materials shall be included in the bid price for the cement stabilized layer.
- Transverse pavement build-up shall be in conformance with the Asphalt Concrete Build-up Detail on sheet 2B(14). Longitudinal build-up shall be in conformance with VDOT Standard ACOT-1.
- The VDOT District Materials Engineer shall be notified within 24 hours of exposing the existing concrete, and at least 48 hours prior to the placement of widening pavement, to allow for verification of the exposed edge of pavement.
- Existing underdrain locations shown in typical sections are assumed. All existing underdrains that are impacted by the proposed reconstruction shall be removed and replaced to promote positive drainage.

N.T.S.	VDOT PROJECT NO. 0495-029-419	SHEET NO. 2B AREA 4
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APPROVED FOR CONSTRUCTION

NOVA DISTRICT

PROJECT MANAGER_VDOT - Rita Pal-Straub, P.E. (703) 259-2362
 SURVEYED BY, DATE_RDA - Nicholas Kaugaulis, LS (703) 334-0837, 12/2021
 DESIGN BY_RDA - Darrell Fischer, P.E. (703) 334-0823
 SUBSURFACE UTILITY BY, DATE_Accumark - Michael Taylor, LS (703) 635-3060, 12/2021



REVISED	STATE	ROUTE	STATE	VDOT PROJECT NO.	SHEET NO.
	VA.	495		0495-029-419 C501 RW201	2B(1) AREA 4

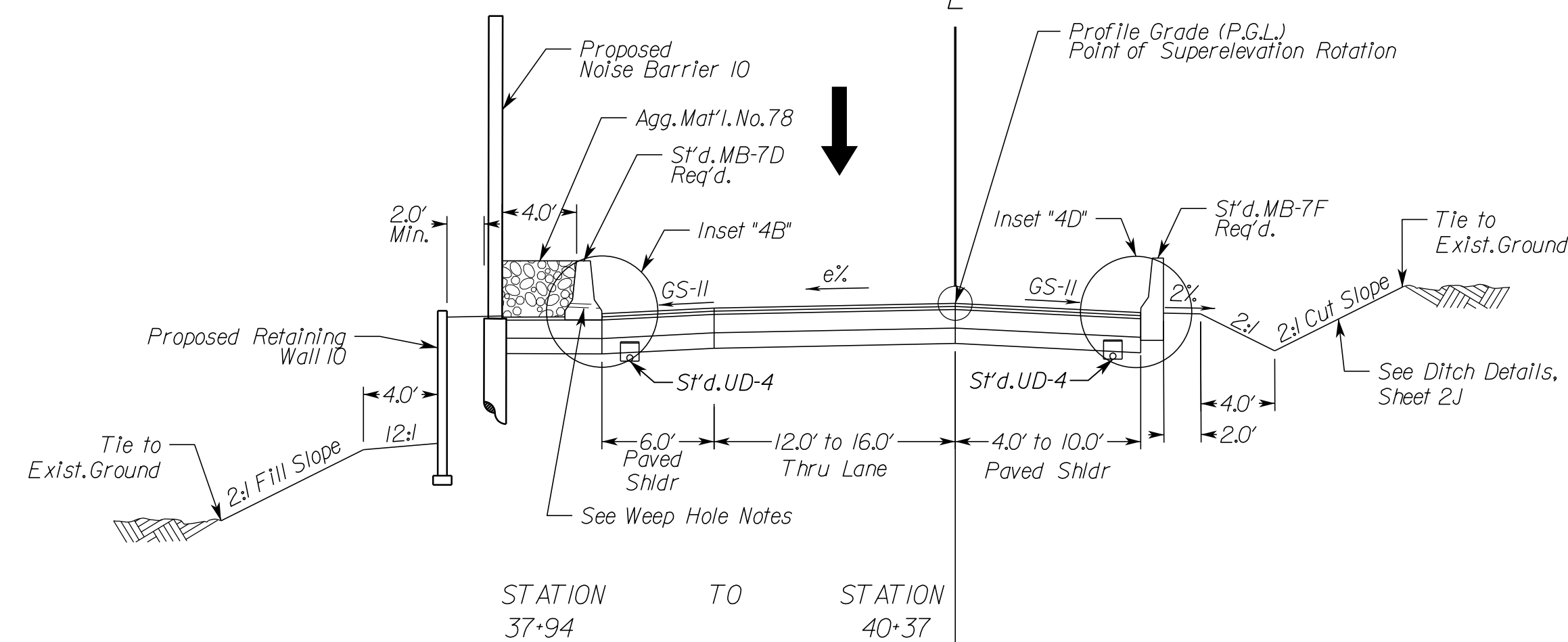
DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT

ECS Chantilly, Virginia (GEOTECHNICAL ENGINEER)
 Rinker Design Assoc., P.C. Manassas, Virginia (ROADWAY ENGINEER)

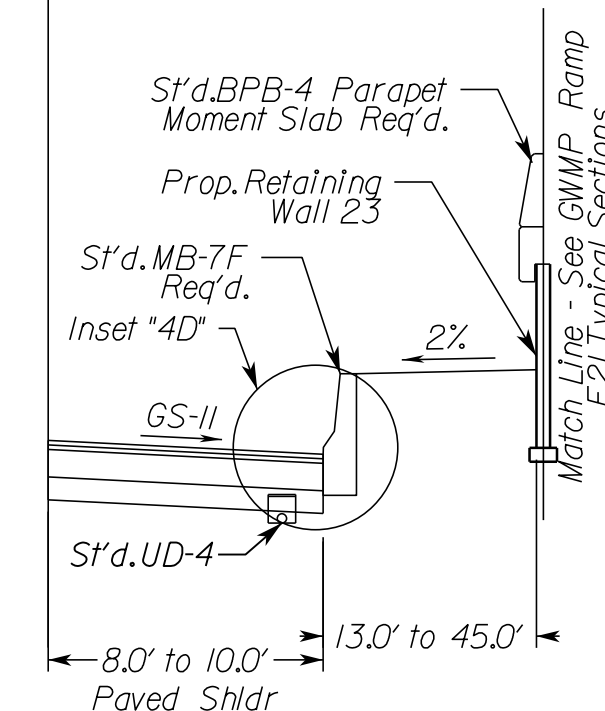
Typical Sections

GWMP Ramp G2I Superelevated Section, Interchange Ramp

Geometric Design Standard for Interchange Ramps (GS-R): V=30 MPH
 (Not to Scale)
 Constr.



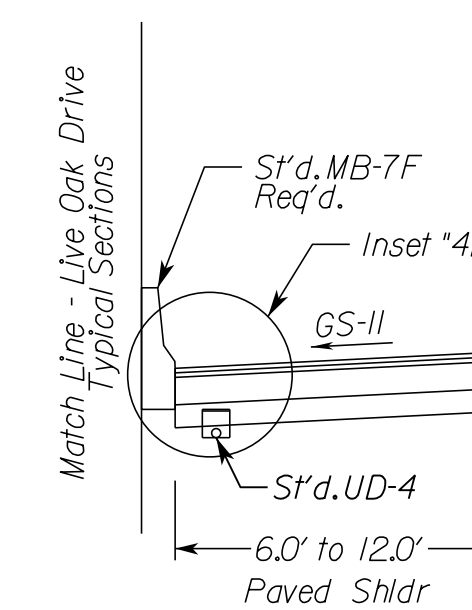
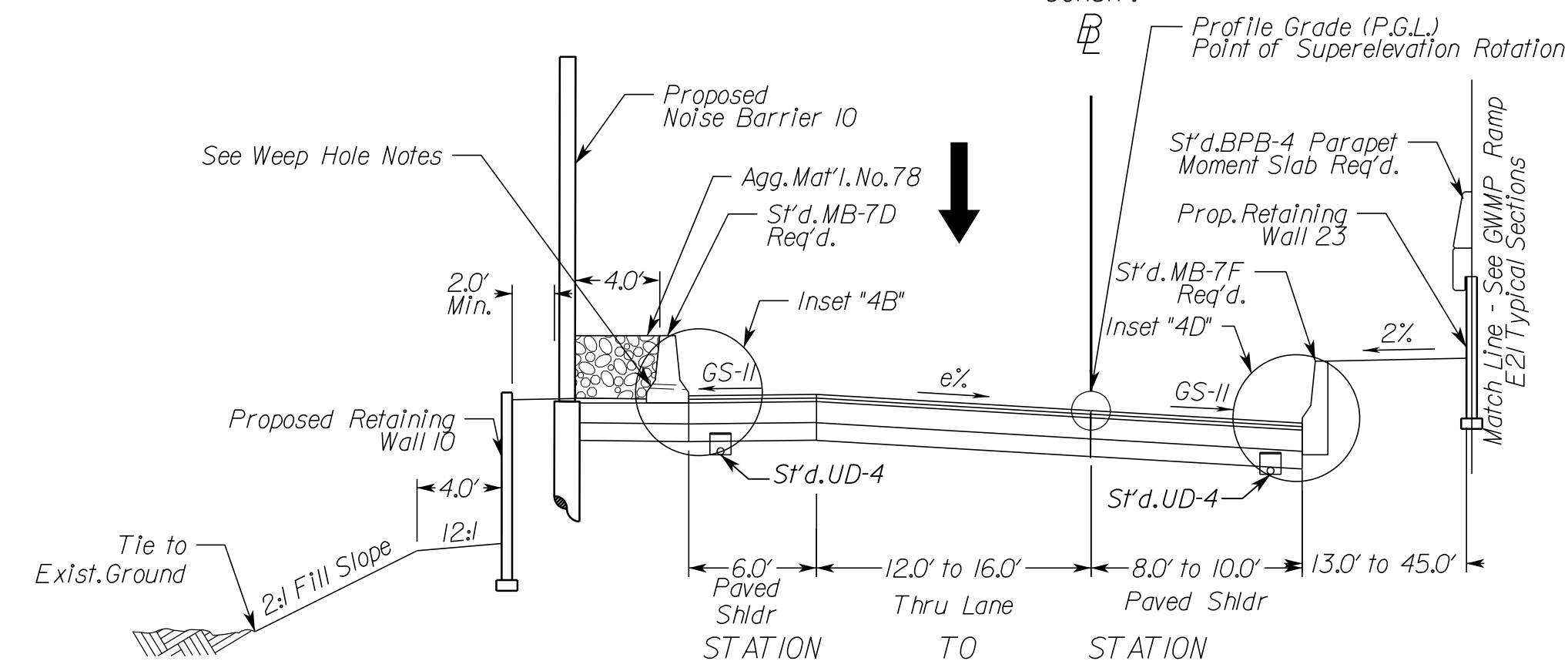
Weep Hole Notes:
 3" Drain Pipe, Max Spacing 8'-0" O.C. Weep Hole shall be covered with 12"x12" Plastic Hardware Cloth 0.25" Mesh or Galvanized Steel Wire, Min. Wire Diameter 0.03", #4 Mesh Hardware Cloth Anchored Firmly to the Outside of the Structure.



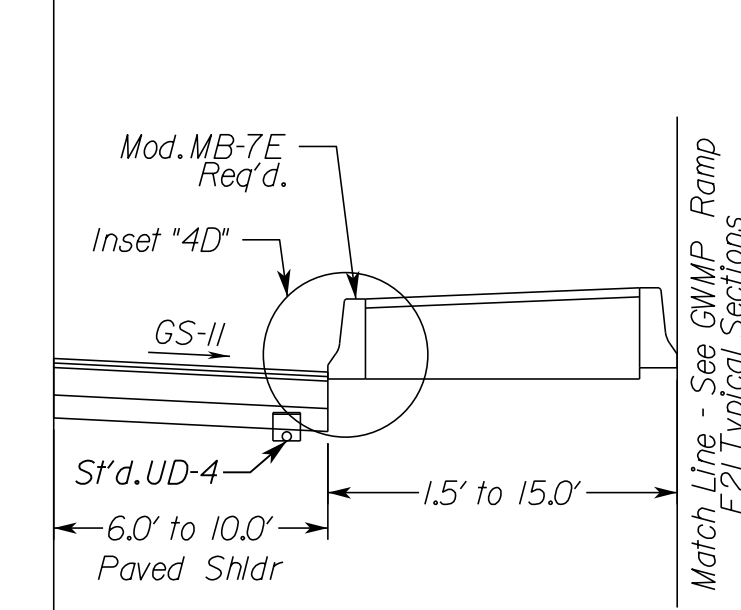
STATION 40+11 TO STATION 40+37

GWMP Ramp G2I Superelevated Section, Interchange Ramp

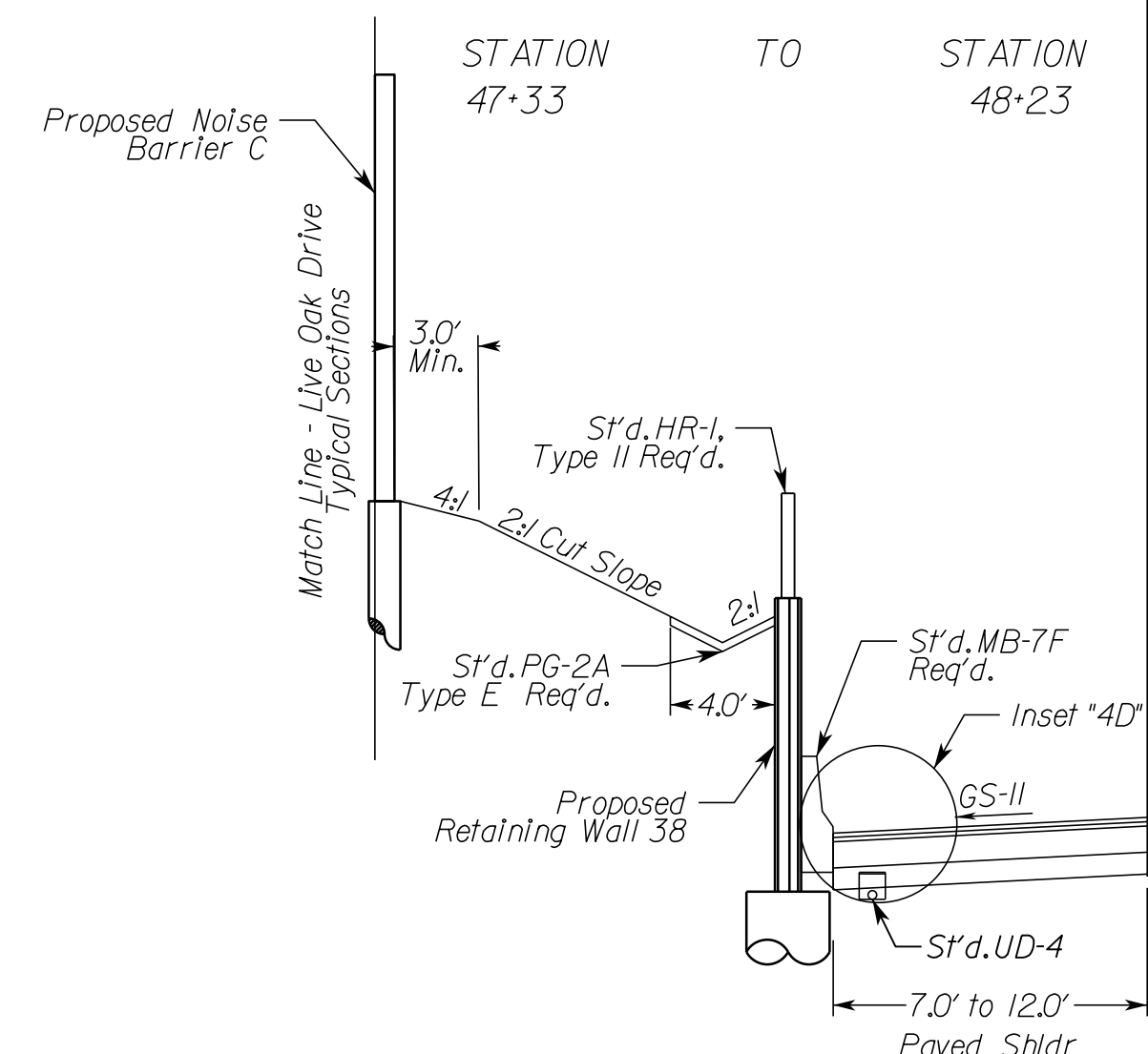
Geometric Design Standard for Interchange Ramps (GS-R): V=30 MPH
 (Not to Scale)
 Constr.



STATION 47+33 TO STATION 48+23



STATION 47+89 TO STATION 51+67



STATION 48+23 TO STATION 51+67

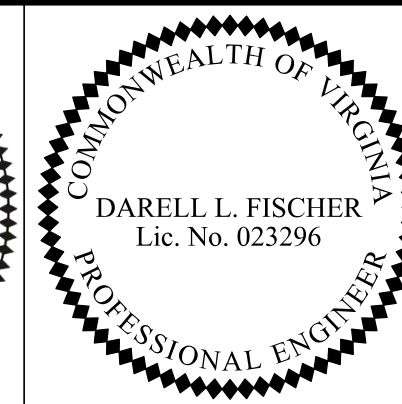
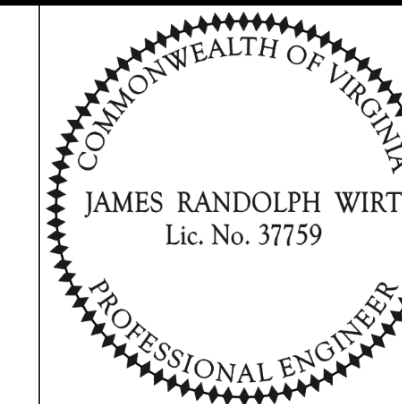
TYPICAL SECTION NOTES

- Pavement widening to be performed in accordance with VDOT S'd.WP-2
- S'd.UD-4 Req'd., see plan sheets for detailed locations.
- S'd.UD-2 Req'd., see plan sheets for detailed locations.
- When widening existing pavement, the pavement subgrade slope shall be designed such that the existing pavement subbase material can properly drain to a standard UD-4 edge drain.
- When widening the existing pavement the bottom of the new BM-25.0A shall be placed even with the bottom of the existing base asphalt.
- The final surface course shall be placed in continuous operation across the full pavement width after all previous layers have been completed and shall include all areas where eradication of existing pavement markings have been performed for temporary tie-ins.
- When liquid asphalt is used as a curing material for the cement stabilized course, it shall be liquid asphalt CRS-1, CR-1h or CMS-2 applied at a rate of 0.2 gal/sy. Where necessary for maintenance of traffic, cover material consisting of No. 10 Aggregate of Grading B Sand shall be applied at a rate of 10 lbs/sy. All costs for such curing and materials shall be included in the bid price for the cement stabilized layer.
- Transverse pavement build-up shall be in conformance with the Asphalt Concrete Build-up Detail on sheet 2B(14). Longitudinal build-up shall be in conformance with VDOT Standard ACOT-1.
- The VDOT District Materials Engineer shall be notified within 24 hours of exposing the existing concrete, and at least 48 hours prior to the placement of widening pavement, to allow for verification of the exposed edge of pavement.
- Existing underdrain locations shown in typical sections are assumed. All existing underdrains that are impacted by the proposed reconstruction shall be removed and replaced to promote positive drainage.

N.T.S.	VDOT PROJECT NO. 0495-029-419	SHEET NO. 2B(1) AREA 4
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APPROVED FOR CONSTRUCTION

PROJECT MANAGER_VDOT - Rupal Shah, P.E. (703) 259-2362
 SURVEYED BY, DATE_RDA - Nicholas Kaugauls, LS (703) 334-0837, 12/2021
 DESIGN BY_RDA - Darrell Fischer, P.E. (703) 334-0823
 Dewberry - Ron Jakomilich, P.E. (703) 849-0651
 SUBSURFACE UTILITY BY, DATE_Accumark - Michael Taylor, LS (703) 635-3060, 12/2021



ECS
 Chantilly, Virginia
 (GEOTECHNICAL ENGINEER)

Rinker Design Assoc., P.C.
 Manassas, Virginia
 (ROADWAY ENGINEER)

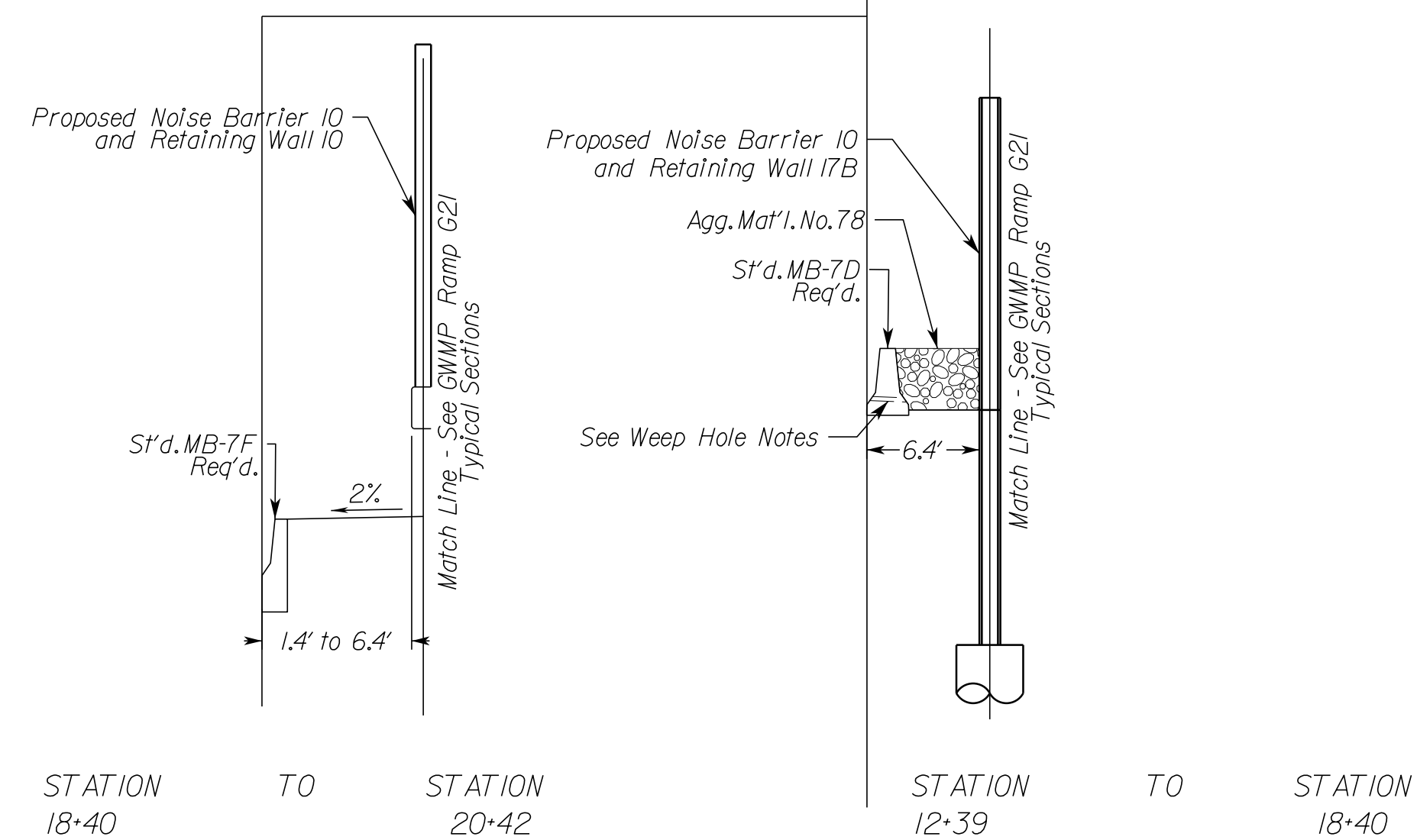
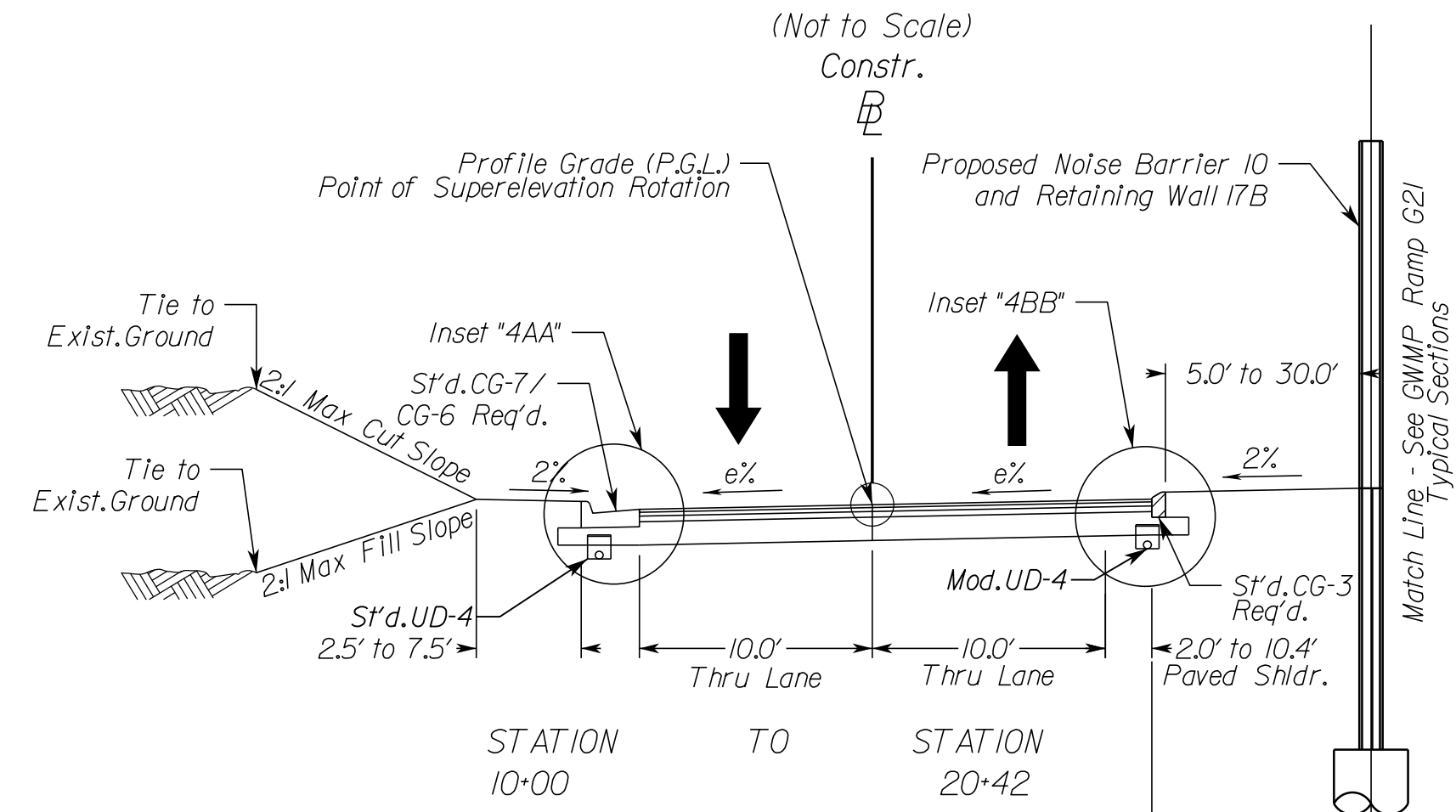
REVISED	STATE	ROUTE	STATE	VDOT PROJECT NO.	SHEET NO.
	VA.	495		0495-029-419 C501 RW201	2B(2) AREA 4

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

Typical Sections

Live Oak Drive Superelevated Section, 2 Lane Street with Curb and Gutter

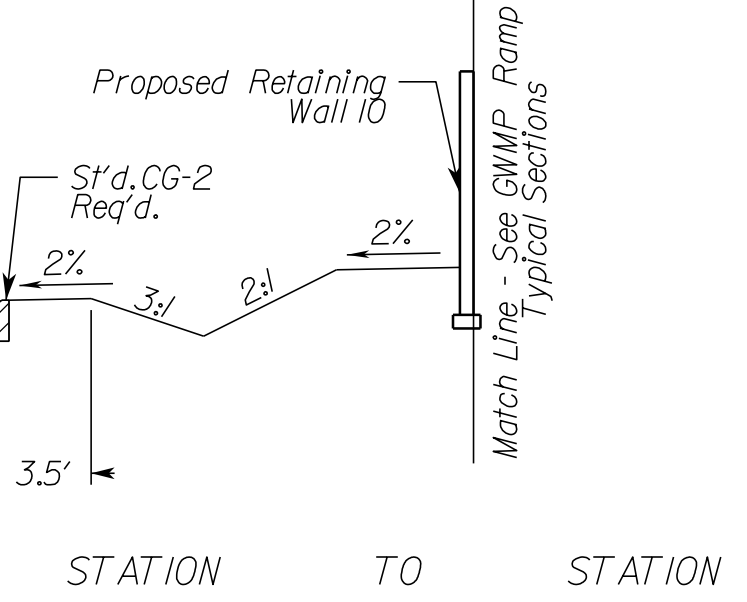
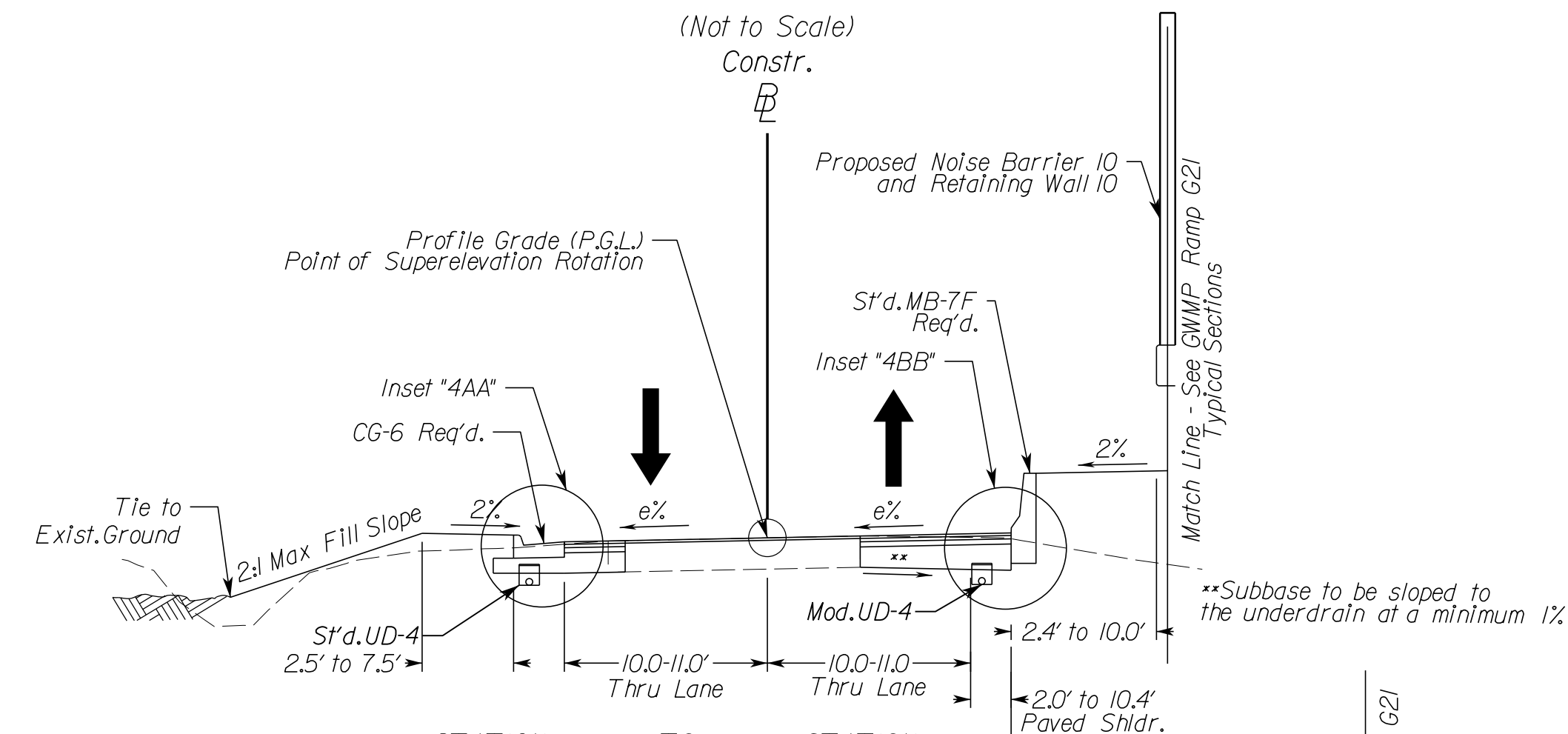
Geometric Design Standard for Urban Local Road (GS-8): V=25 MPH



Weep Hole Notes:
 3" Drain Pipe, Max. Spacing 8'-0" O.C. Weep Hole Shall be Covered With 12"x12" Plastic Hardware Cloth 0.25" Mesh or Galvanized Steel Wire, Min. Wire Diameter 0.03", #4 Mesh Hardware Cloth Anchored Firmly to the Outside of the Structure.

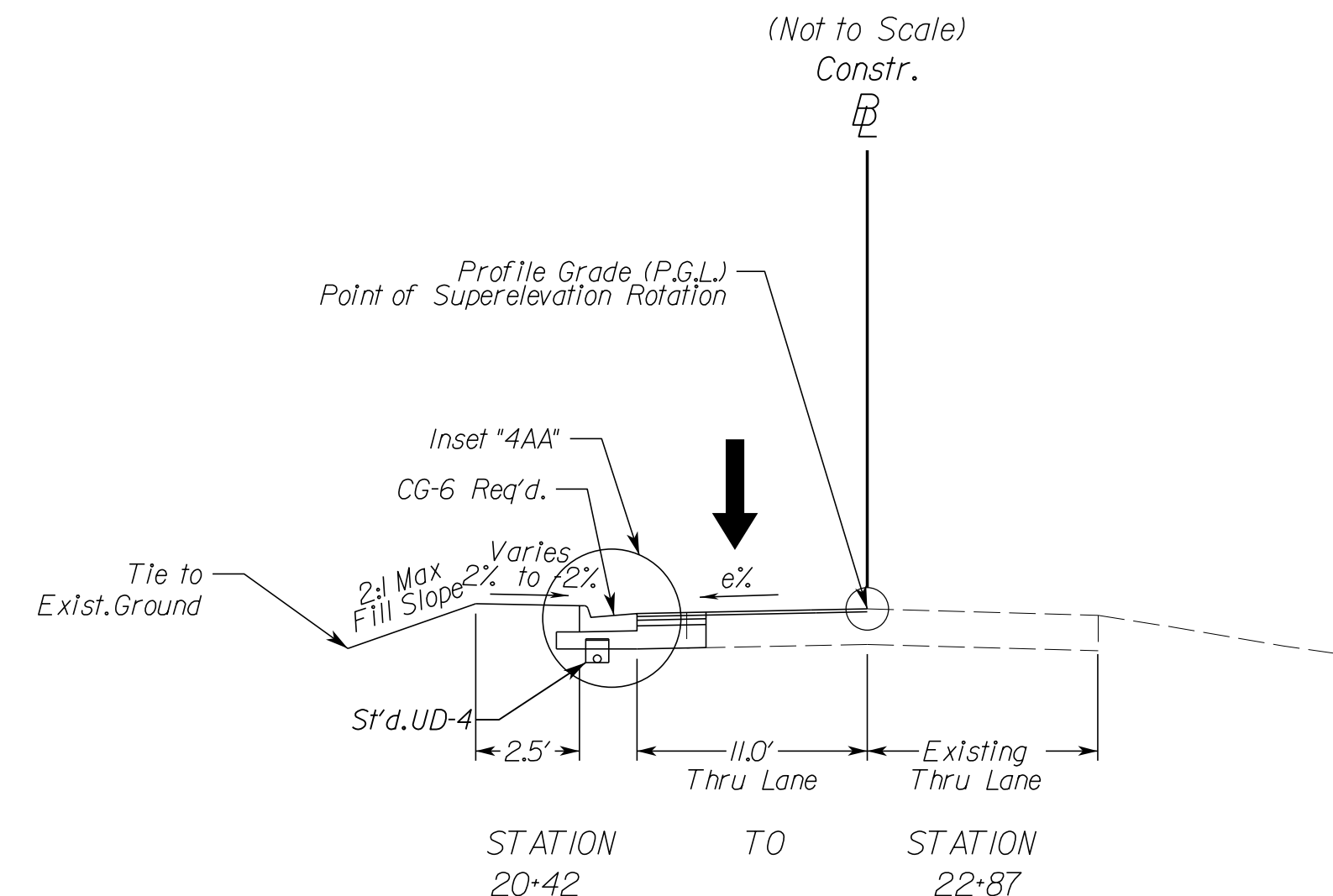
Live Oak Drive Superelevated Section, 2 Lane Street with Curb and Gutter

Geometric Design Standard for Urban Local Road (GS-8): V=25 MPH



Live Oak Drive Superelevated Section, 2 Lane Street with Curb and Gutter

Geometric Design Standard for Urban Local Road (GS-8): V=25 MPH



TYPICAL SECTION NOTES

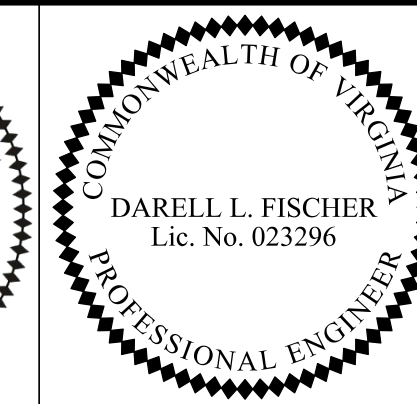
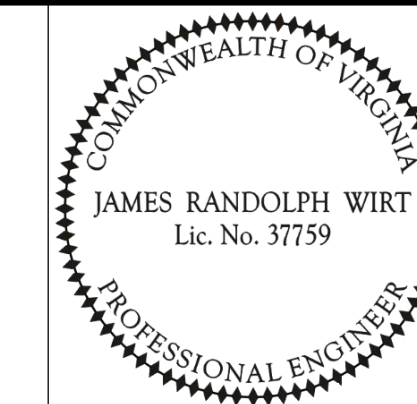
- Pavement widening to be performed in accordance with VDOT S't.d. WP-2
- S't.d. UD-4 Req'd., see plan sheets for detailed locations.
- S't.d. UD-2 Req'd., see plan sheets for detailed locations.
- When widening existing pavement, the pavement subgrade slope shall be designed such that the existing pavement subgrade material can properly drain to a standard UD-4 edge drain.
- When widening the existing pavement the bottom of the new BM-25.0A shall be placed even with the bottom of the existing base asphalt.
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- When liquid asphalt is used as a curing material for the cement stabilized course, it shall be liquid asphalt CRS-1, CR-1h or CMS-2 applied at a rate of 0.2 gal/sy. Where necessary for maintenance of traffic, cover material consisting of No. 10 Aggregate of Grading B Sand shall be applied at a rate of 10 lbs/sy. All costs for such curing and materials shall be included in the bid price for the cement stabilized layer.
- Transverse pavement build-up shall be in conformance with the Asphalt Concrete Build-up Detail on sheet 2B(14). Longitudinal build-up shall be in conformance with VDOT Standard ACOT-1.
- The VDOT District Materials Engineer shall be notified within 24 hours of exposing the existing concrete, and at least 48 hours prior to the placement of widening pavement, to allow for verification of the exposed edge of pavement.
- Existing underdrain locations shown in typical sections are assumed. All existing underdrains that are impacted by the proposed reconstruction shall be removed and replaced to promote positive drainage.

N.T.S.	VDOT PROJECT NO. 0495-029-419	SHEET NO. 2B(2) AREA 4
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APPROVED FOR CONSTRUCTION

NOVA DISTRICT

PROJECT MANAGER_VDOT - Rupal Shah, P.E. (703) 259-2362
 SURVEYED BY, DATE_RDA - Nicholas Kaugaulis, LS (703) 334-0837, 12/2021
 DESIGN BY_RDA - Darrell Fischer, P.E. (703) 334-0823
 SUBSURFACE UTILITY BY, DATE_Accumark - Michael Taylor, LS (703) 635-3060, 12/2021



ECS
 Chantilly, Virginia
 (GEOTECHNICAL ENGINEER)

Rinker Design Assoc., P.C.
 Manassas, Virginia
 (ROADWAY ENGINEER)

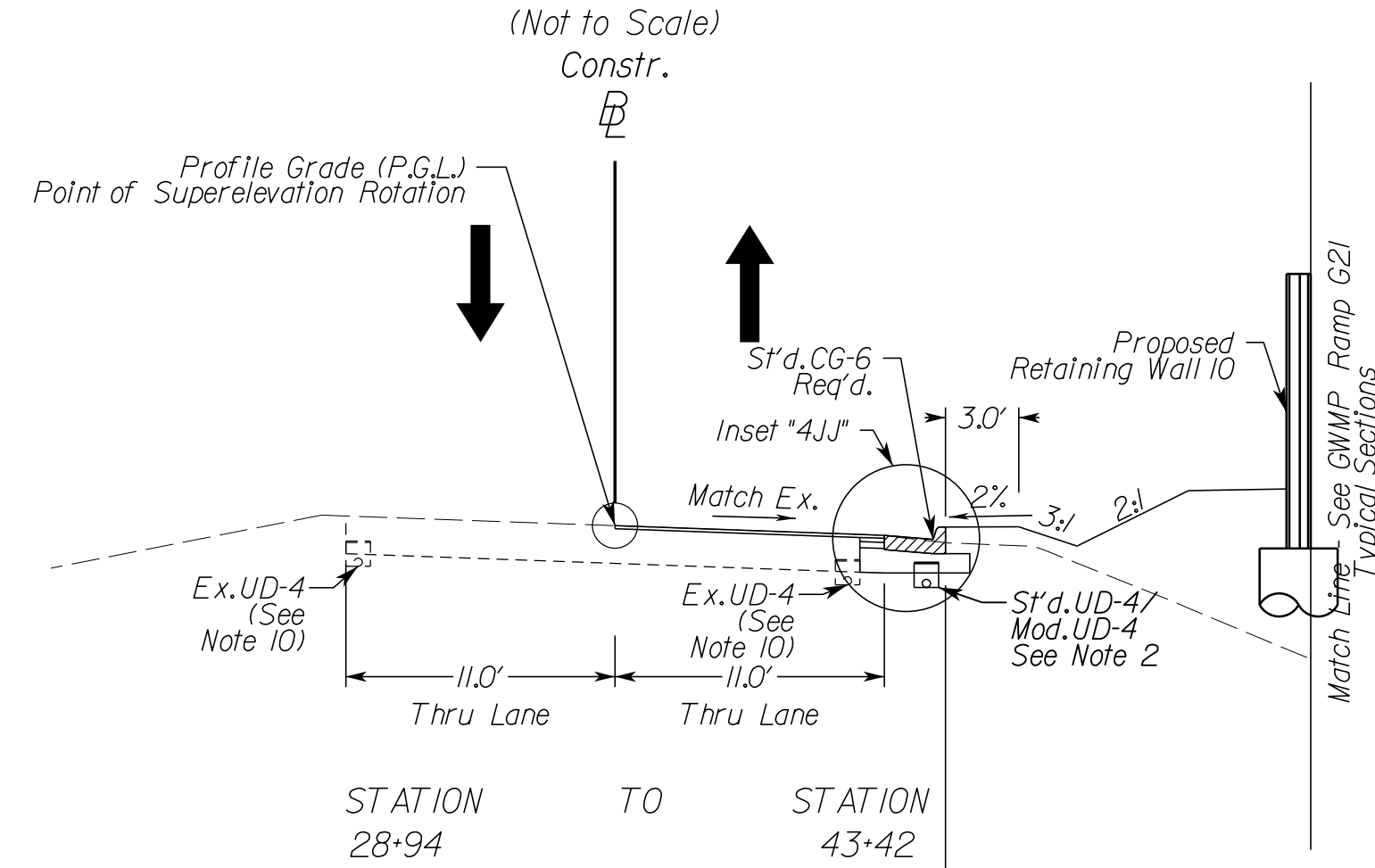
REVISED	STATE	ROUTE	STATE	VDOT PROJECT NO.	SHEET NO.
	VA.	495		0495-029-419 C501 RW201	2B(3) AREA 4

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

Typical Sections

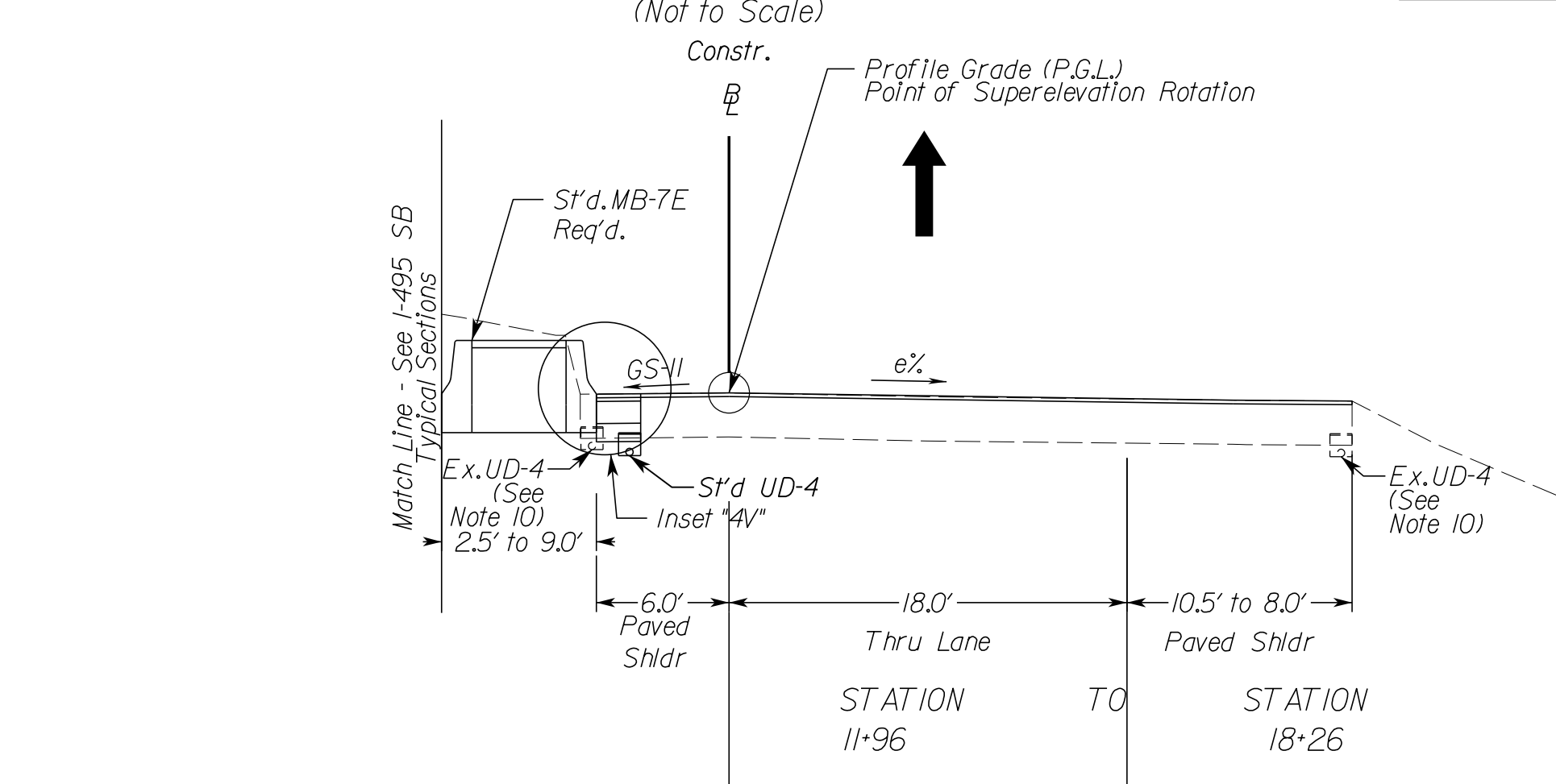
Live Oak Drive Superelevated Section, 2 Lane Street with Curb and Gutter

Geometric Design Standard for Urban Local Road (GS-8): V=25 MPH
 (Not to Scale)

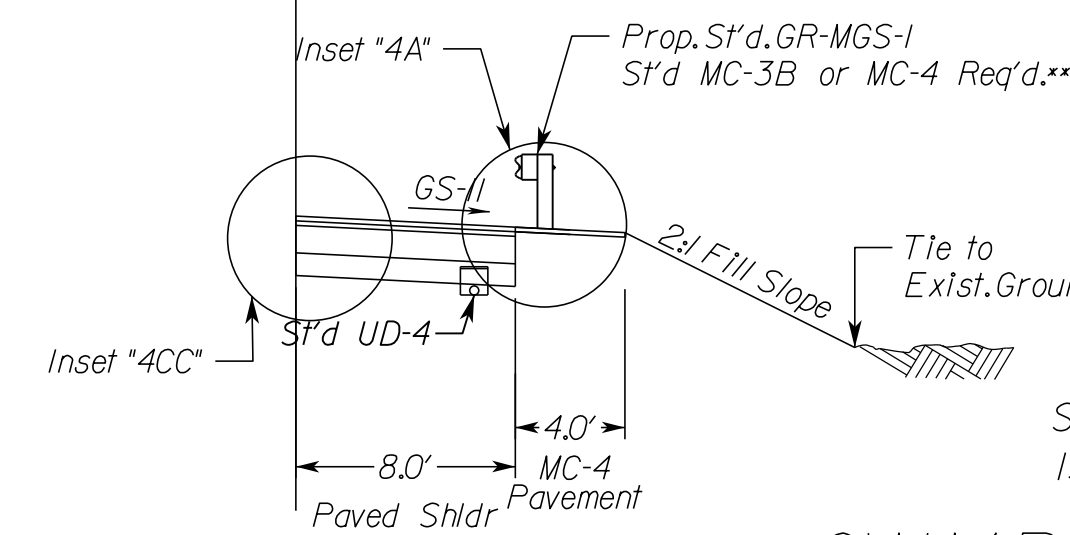
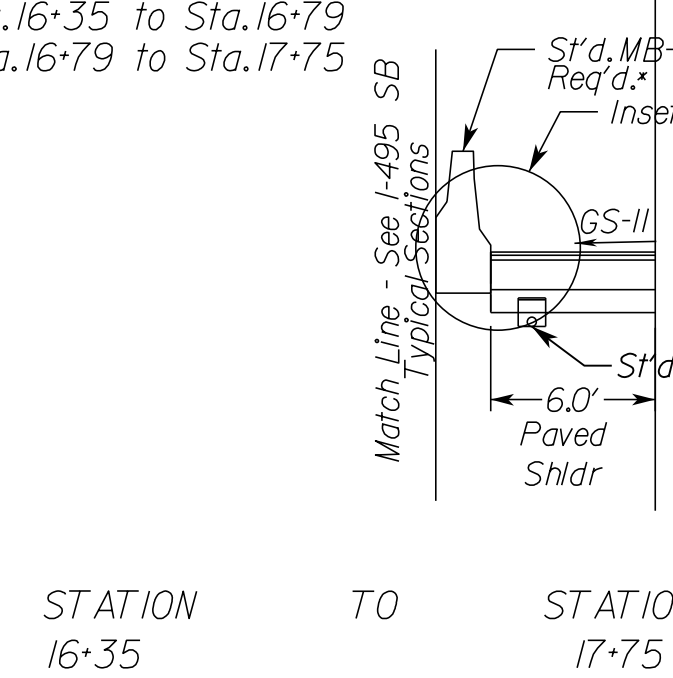


GWMP Ramp G22 Superelevated Section, Interchange Ramp

Geometric Design Standard for Interchange Ramps (GS-R): V=30 MPH
 (Not to Scale)

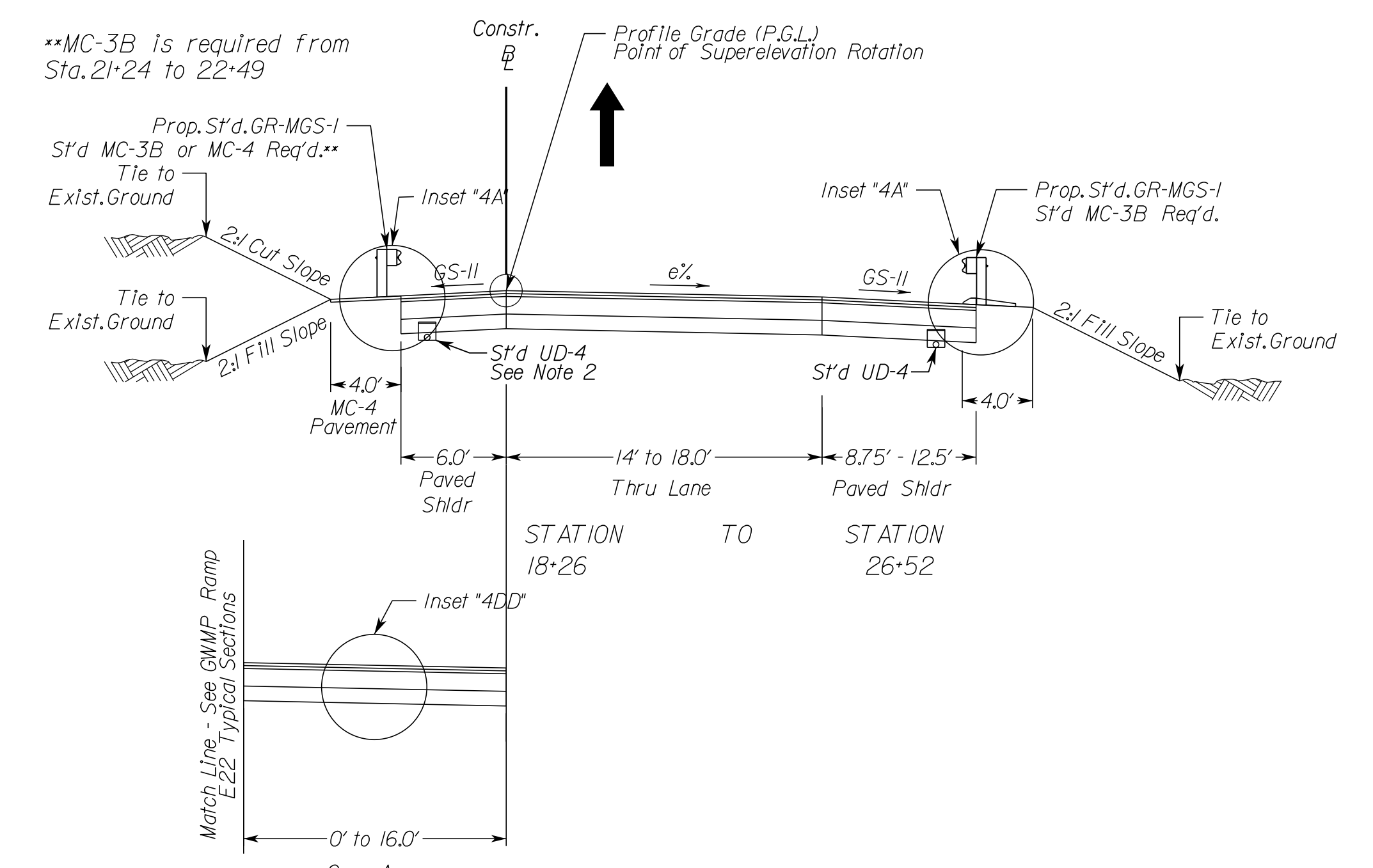


* Type I Sta. 16+35 to Sta. 16+79
 Type II Sta. 16+79 to Sta. 17+75



GWMP Ramp G22 Superelevated Section, Interchange Ramp

Geometric Design Standard for Interchange Ramps (GS-R): V=30 MPH
 (Not to Scale)



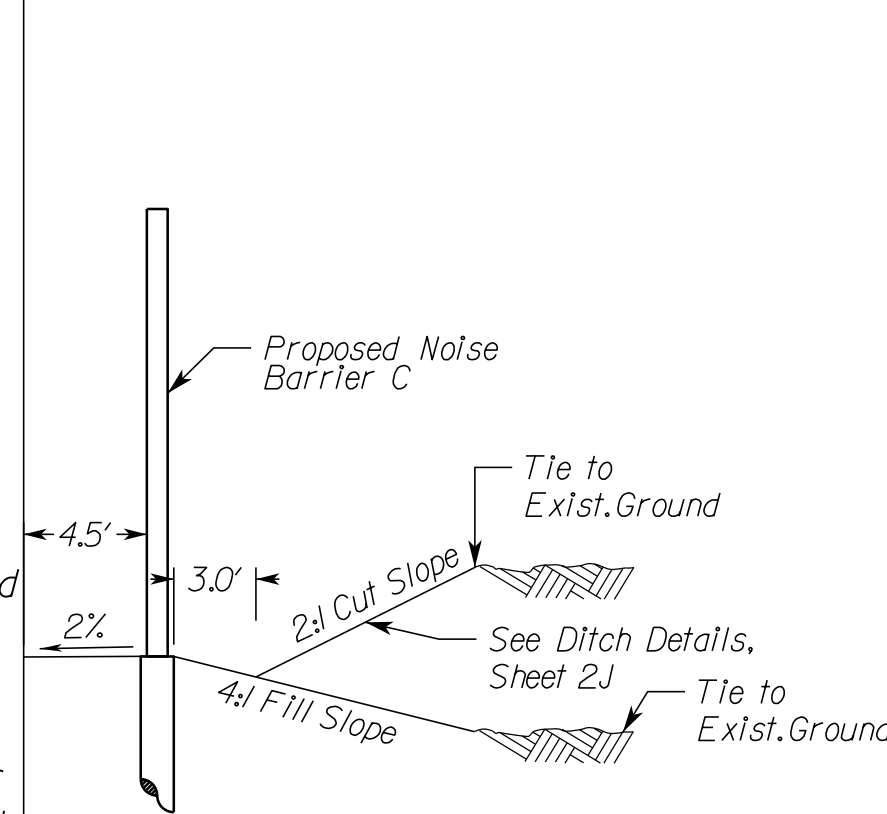
**MC-3B is required from Sta. 17+18 to 18+26

**MC-3B is required from Sta. 21+24 to 22+49

TYPICAL SECTION NOTES

- Pavement widening to be performed in accordance with VDOT S'd.WP-2
- S'd.UD-4 Req'd., see plan sheets for detailed locations.
- S'd.UD-2 Req'd., see plan sheets for detailed locations.
- When widening existing pavement, the pavement subgrade slope shall be designed such that the existing pavement subbase material can properly drain to a standard UD-4 edge drain.
- When widening the existing pavement the bottom of the new BM-25.0A shall be placed even with the bottom of the existing base asphalt.
- The final surface course shall be placed in continuous operation across the full pavement width after all previous layers have been completed and shall include all areas where eradication of existing pavement markings have been performed for temporary tie-ins.
- When liquid asphalt is used as a curing material for the cement stabilized course, it shall be liquid asphalt CRS-1, CR-1h or CMS-2 applied at a rate of 0.2 gal/sy. Where necessary for maintenance of traffic, cover material consisting of No. 10 Aggregate of Grading B Sand shall be applied at a rate of 10 lbs/sy. All costs for such curing and materials shall be included in the bid price for the cement stabilized layer.
- Transverse pavement build-up shall be in conformance with the Asphalt Concrete Build-up Detail on sheet 2B(14). Longitudinal build-up shall be in conformance with VDOT Standard ACOT-1.
- The VDOT District Materials Engineer shall be notified within 24 hours of exposing the existing concrete, and at least 48 hours prior to the placement of widening pavement, to allow for verification of the exposed edge of pavement.
- Existing underdrain locations shown in typical sections are assumed. All existing underdrains that are impacted by the proposed reconstruction shall be removed and replaced to promote positive drainage.

STATION TO STATION
 31+89 TO 37+53



STATION TO STATION
 37+53 TO 42+83

NOVA DISTRICT

10/26/2022

APPROVED FOR CONSTRUCTION

N.T.S.

VDOT PROJECT NO.
 0495-029-419

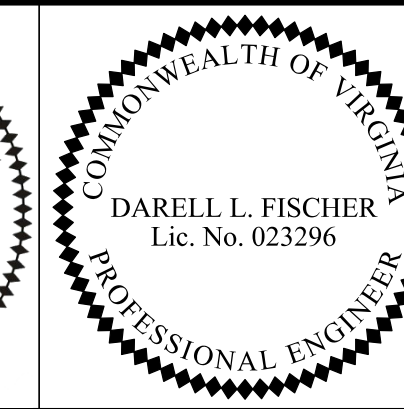
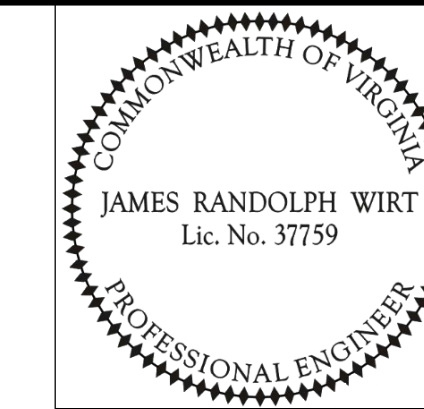
SHEET NO.
 2B(3)
 AREA 4

PROJECT MANAGER VDOT - Rupal Shah, P.E. (703) 259-2362
 SURVEYED BY, DATE RDA - Nicholas Kaugaulis, L.S. (703) 334-0837, 12/2021
 DESIGN BY RDA - Darrell Fischer, P.E. (703) 334-0823
 SUBSURFACE UTILITY BY, DATE Accurmark - Michael Taylor, L.S. (703) 635-3060, 12/2021

GWMP Ramp G23 Superelevated Section, Interchange Ramp

Geometric Design Standard for Interchange Ramps (GS-R): V=30 MPH
 (Not to Scale)

Typical Sections

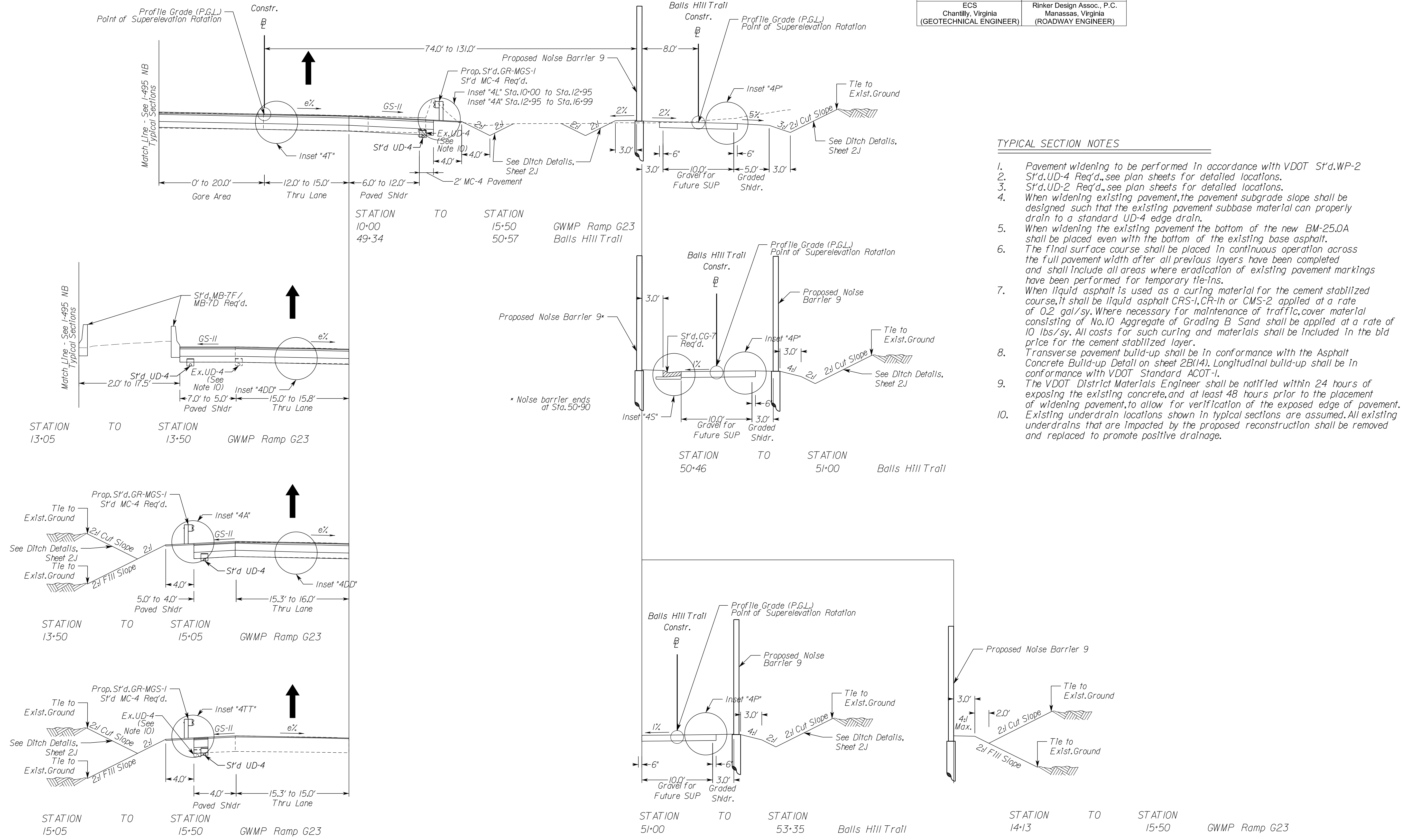


REVISED	STATE	ROUTE	STATE	VDOT PROJECT NO.	SHEET NO.
	VA.	495		0495-029-419 C501 RW201	2B(4) AREA 4

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

ECS
 Chantilly, Virginia
 (GEOTECHNICAL ENGINEER)

Rinker Design Assoc., P.C.
 Manassas, Virginia
 (ROADWAY ENGINEER)



TYPICAL SECTION NOTES

1. Pavement widening to be performed in accordance with VDOT St'd.WP-2
2. St'd.UD-4 Req'd., see plan sheets for detailed locations.
3. St'd.UD-2 Req'd., see plan sheets for detailed locations.
4. When widening existing pavement, the pavement subgrade slope shall be designed such that the existing pavement subbase material can properly drain to a standard UD-4 edge drain.
5. When widening the existing pavement the bottom of the new BM-25.0A shall be placed even with the bottom of the existing base asphalt.
6. The final surface course shall be placed in continuous operation across the full pavement width after all previous layers have been completed and shall include all areas where eradication of existing pavement markings have been performed for temporary tie-ins.
7. When liquid asphalt is used as a curing material for the cement stabilized course, it shall be liquid asphalt CRS-1, CR-1h or CMS-2 applied at a rate of 0.2 gal/sy. Where necessary for maintenance of traffic, cover material consisting of No.10 Aggregate of Grading B Sand shall be applied at a rate of 10 lbs/sy. All costs for such curing and materials shall be included in the bid price for the cement stabilized layer.
8. Transverse pavement build-up shall be in conformance with the Asphalt Concrete Build-up Detail on sheet 2B(14). Longitudinal build-up shall be in conformance with VDOT Standard ACOT-1.
9. The VDOT District Materials Engineer shall be notified within 24 hours of exposing the existing concrete, and at least 48 hours prior to the placement of widening pavement, to allow for verification of the exposed edge of pavement.
10. Existing underdrain locations shown in typical sections are assumed. All existing underdrains that are impacted by the proposed reconstruction shall be removed and replaced to promote positive drainage.

NOVA DISTRICT

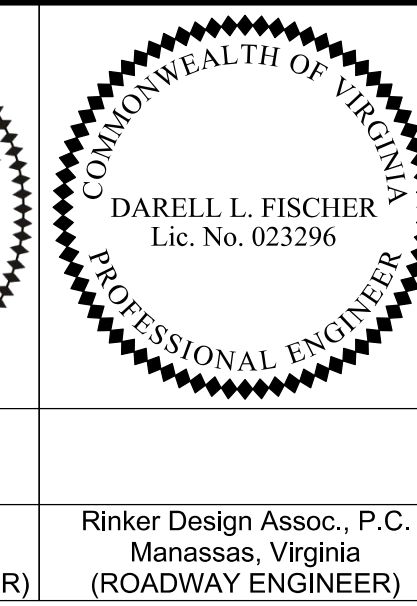
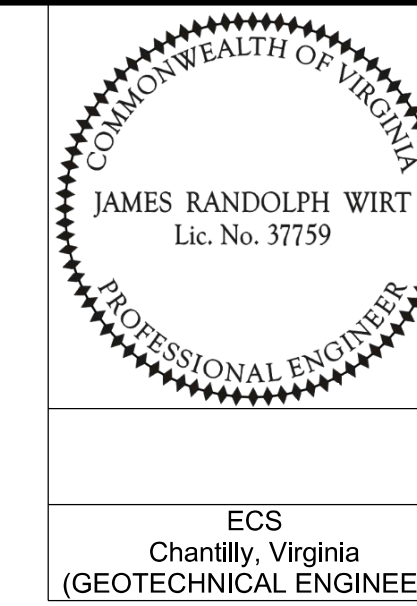
10/26/2022

APPROVED FOR CONSTRUCTION

N.T.S.	VDOT PROJECT NO. 0495-029-419	SHEET NO. 2B(4) AREA 4
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PROJECT MANAGER_VDOT - Rupal Shah, P.E. (703) 259-2362
 SURVEYED BY, DATE_RDA - Nicholas Kougaull's, LS (703) 334-0837, 12/2021
 DESIGN BY_RDA - Darrell Fischer, P.E. (703) 334-0823
 SUBSURFACE UTILITY BY, DATE_Accumark - Michael Taylor, LS (703) 635-3060, 12/2021

Typical Sections



REVISED	STATE	ROUTE	STATE	VDOT PROJECT NO.	SHEET NO.
	VA.	495		0495-029-419 C501 RW201	2B(5) AREA 4

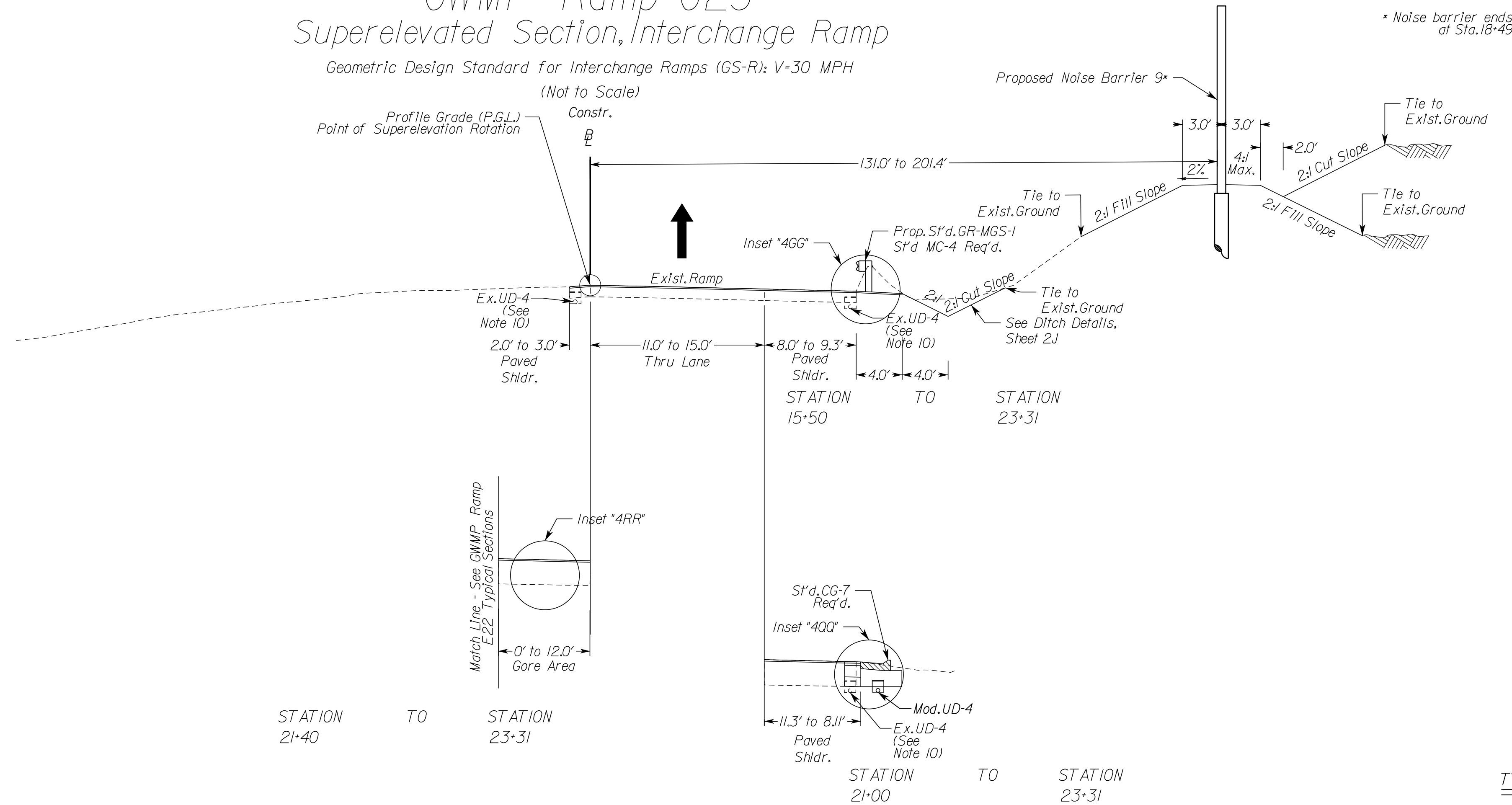
DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT

ECS
Chantilly, Virginia
(GEOTECHNICAL ENGINEER)

Rinker Design Assoc., P.C.
Manassas, Virginia
(ROADWAY ENGINEER)

GWMP Ramp G23 Superelevated Section, Interchange Ramp

Geometric Design Standard for Interchange Ramps (GS-R): V=30 MPH
(Not to Scale)



TYPICAL SECTION NOTES

- Pavement widening to be performed in accordance with VDOT S' d. WP-2
- S' d. UD-4 Req'd., see plan sheets for detailed locations.
- S' d. UD-2 Req'd., see plan sheets for detailed locations.
- When widening existing pavement, the pavement subgrade slope shall be designed such that the existing pavement subbase material can properly drain to a standard UD-4 edge drain.
- When widening the existing pavement the bottom of the new BM-25.0A shall be placed even with the bottom of the existing base asphalt.
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- When liquid asphalt is used as a curing material for the cement stabilized course, it shall be liquid asphalt CRS-1, CR-1h or CMS-2 applied at a rate of 0.2 gal/sy. Where necessary for maintenance of traffic, cover material consisting of No. 10 Aggregate of Grading B Sand shall be applied at a rate of 10 lbs/sy. All costs for such curing and materials shall be included in the bid price for the cement stabilized layer.
- Transverse pavement build-up shall be in conformance with the Asphalt Concrete Build-up Detail on sheet 2B(14). Longitudinal build-up shall be in conformance with VDOT Standard ACOT-1.
- The VDOT District Materials Engineer shall be notified within 24 hours of exposing the existing concrete, and at least 48 hours prior to the placement of widening pavement, to allow for verification of the exposed edge of pavement.
- Existing underdrain locations shown in typical sections are assumed. All existing underdrains that are impacted by the proposed reconstruction shall be removed and replaced to promote positive drainage.

NOVA DISTRICT

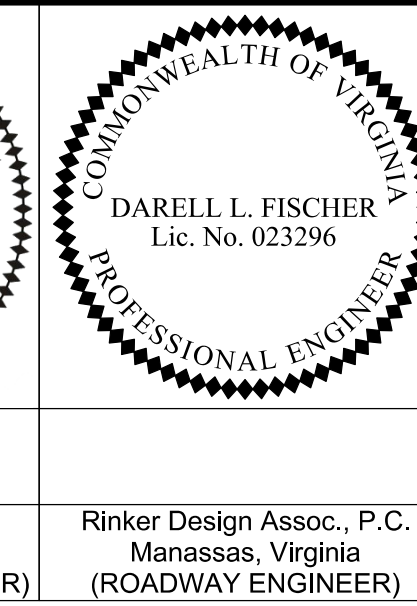
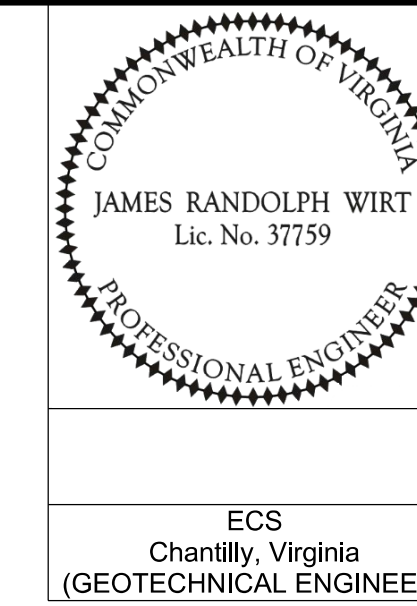
10/26/2022

N.T.S.	VDOT PROJECT NO. 0495-029-419	SHEET NO. 2B(5) AREA 4
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APPROVED FOR CONSTRUCTION

PROJECT MANAGER_VDOT - Rupal Shah, P.E. (703) 259-2362
 SURVEYED BY, DATE_RDA - Nicholas Kougoullis, LS (703) 334-0837, 12/2021
 DESIGN BY_RDA - Darrell Fischer, P.E. (703) 334-0823
 SUBSURFACE UTILITY BY, DATE_Accumark - Michael Taylor, LS (703) 635-3060, 12/2021

Typical Sections



REVISED	STATE	ROUTE	STATE	VDOT PROJECT NO.	SHEET NO.
	VA.	495		0495-029-419 C501 RW201	2B(6) AREA 4

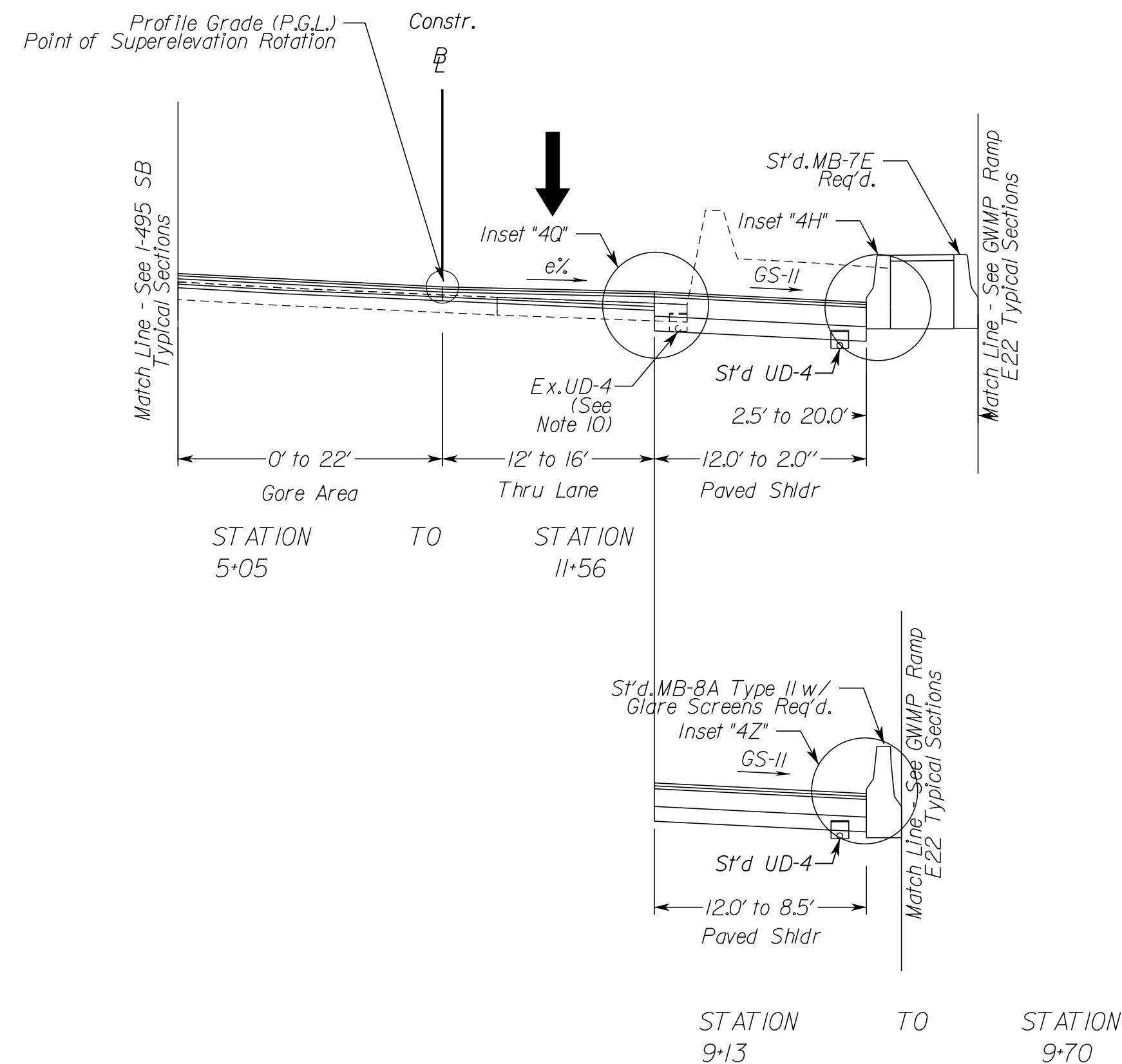
DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT

ECS
 Chantilly, Virginia
 (GEOTECHNICAL ENGINEER)

Rinker Design Assoc., P.C.
 Manassas, Virginia
 (ROADWAY ENGINEER)

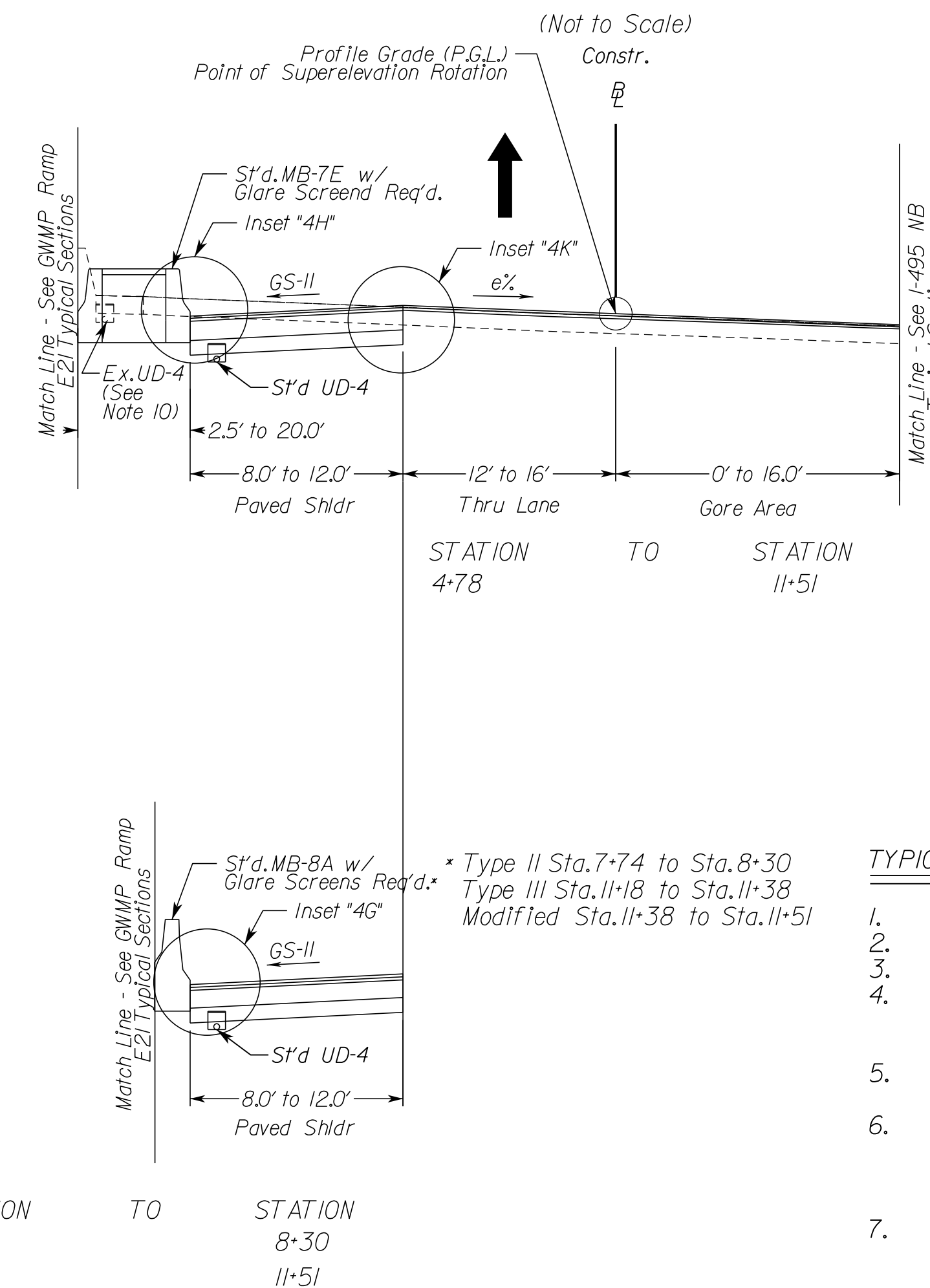
GWMP Ramp E21 Superelevated Section, Interchange Ramp

Geometric Design Standard for Interchange Ramps (GS-R): V=30 MPH
 (Not to Scale)



GWMP Ramp E22 Superelevated Section, Interchange Ramp

Geometric Design Standard for Interchange Ramps (GS-R): V=30 MPH
 (Not to Scale)



TYPICAL SECTION NOTES

- Pavement widening to be performed in accordance with VDOT St'd. WP-2
- St'd. UD-4 Req'd., see plan sheets for detailed locations.
- St'd. UD-2 Req'd., see plan sheets for detailed locations.
- When widening existing pavement, the pavement subgrade slope shall be designed such that the existing pavement subbase material can properly drain to a standard UD-4 edge drain.
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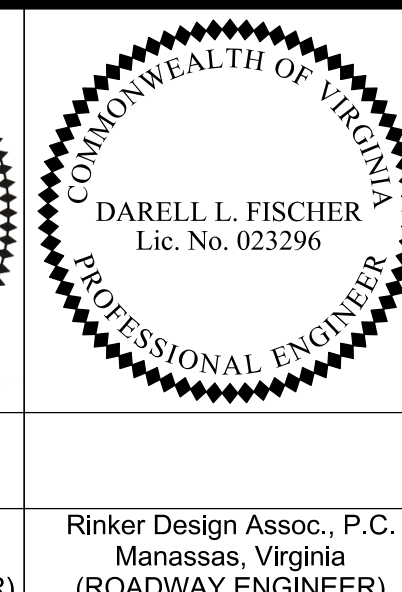
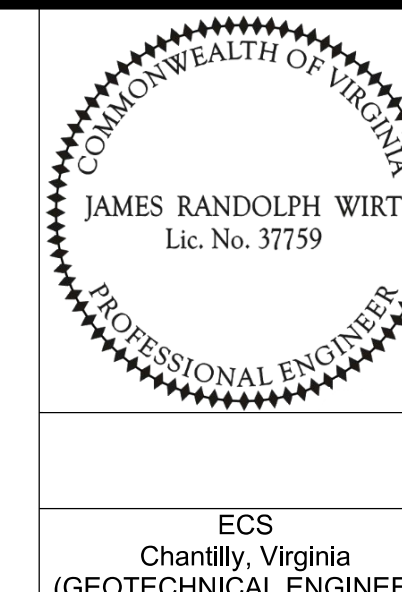
NOVA DISTRICT

10/26/2022

N.T.S.	VDOT PROJECT NO. 0495-029-419	SHEET NO. 2B(6) AREA 4
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APPROVED FOR CONSTRUCTION

PROJECT MANAGER_VDOT - Rupal Shah, P.E. (703) 259-2362
 SURVEYED BY, DATE_RDA - Nicholas Kougoullis, LS (703) 334-0837, 12/2021
 DESIGN BY_RDA - Darrell Fischer, P.E. (703) 334-0823
 Dewberry - Ron Jakomilich, P.E. (703) 849-0651
 SUBSURFACE UTILITY BY, DATE_Accumark - Michael Taylor, LS (703) 635-3060, 12/2021



REVISED	STATE	ROUTE	STATE	VDOT PROJECT NO.	SHEET NO.
	VA.	495		0495-029-419 C501 RW201	2B(7) AREA 4

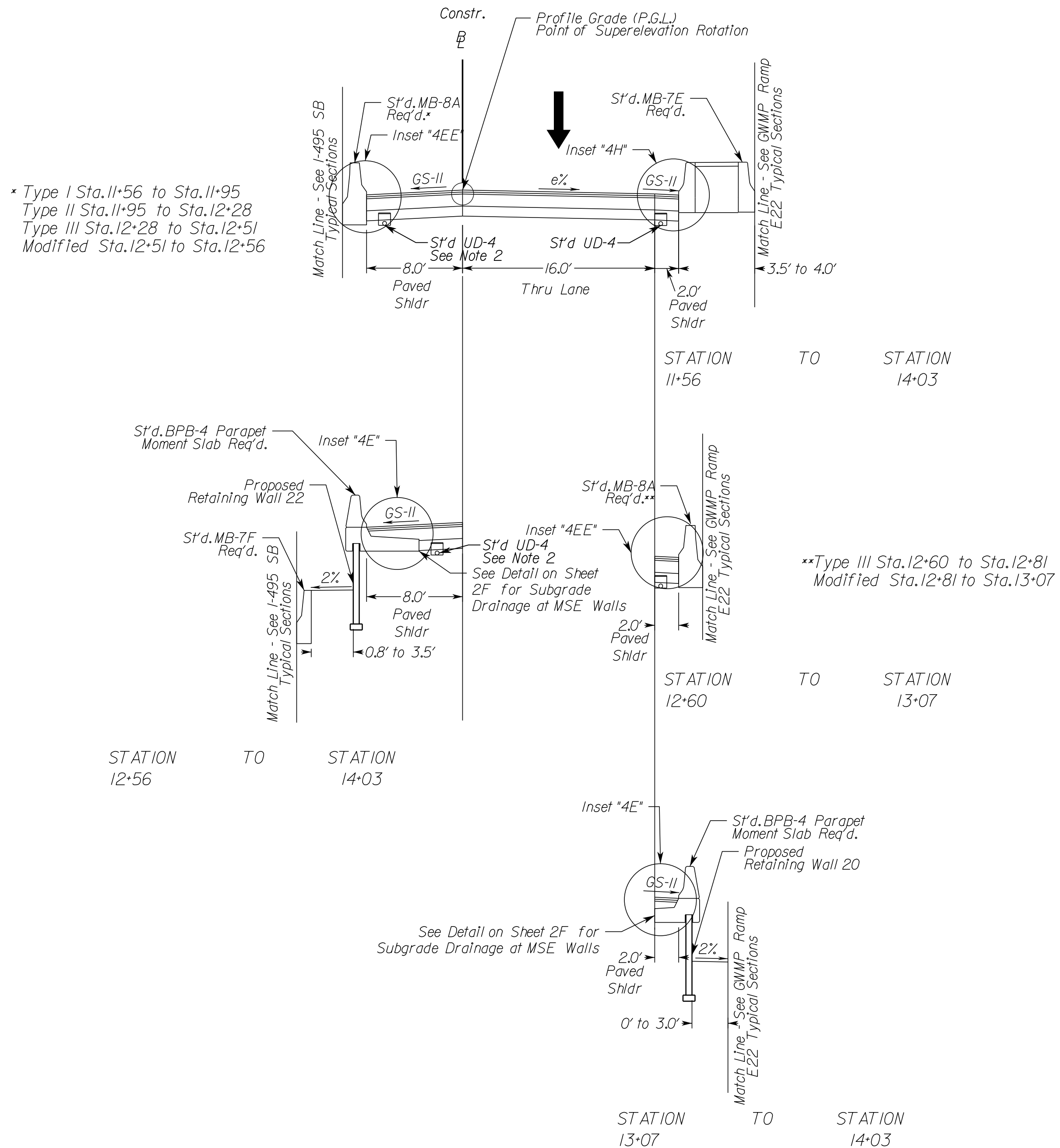
DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT

ECS Chantilly, Virginia (GEOTECHNICAL ENGINEER)
 Rinker Design Assoc., P.C. Manassas, Virginia (ROADWAY ENGINEER)

Typical Sections

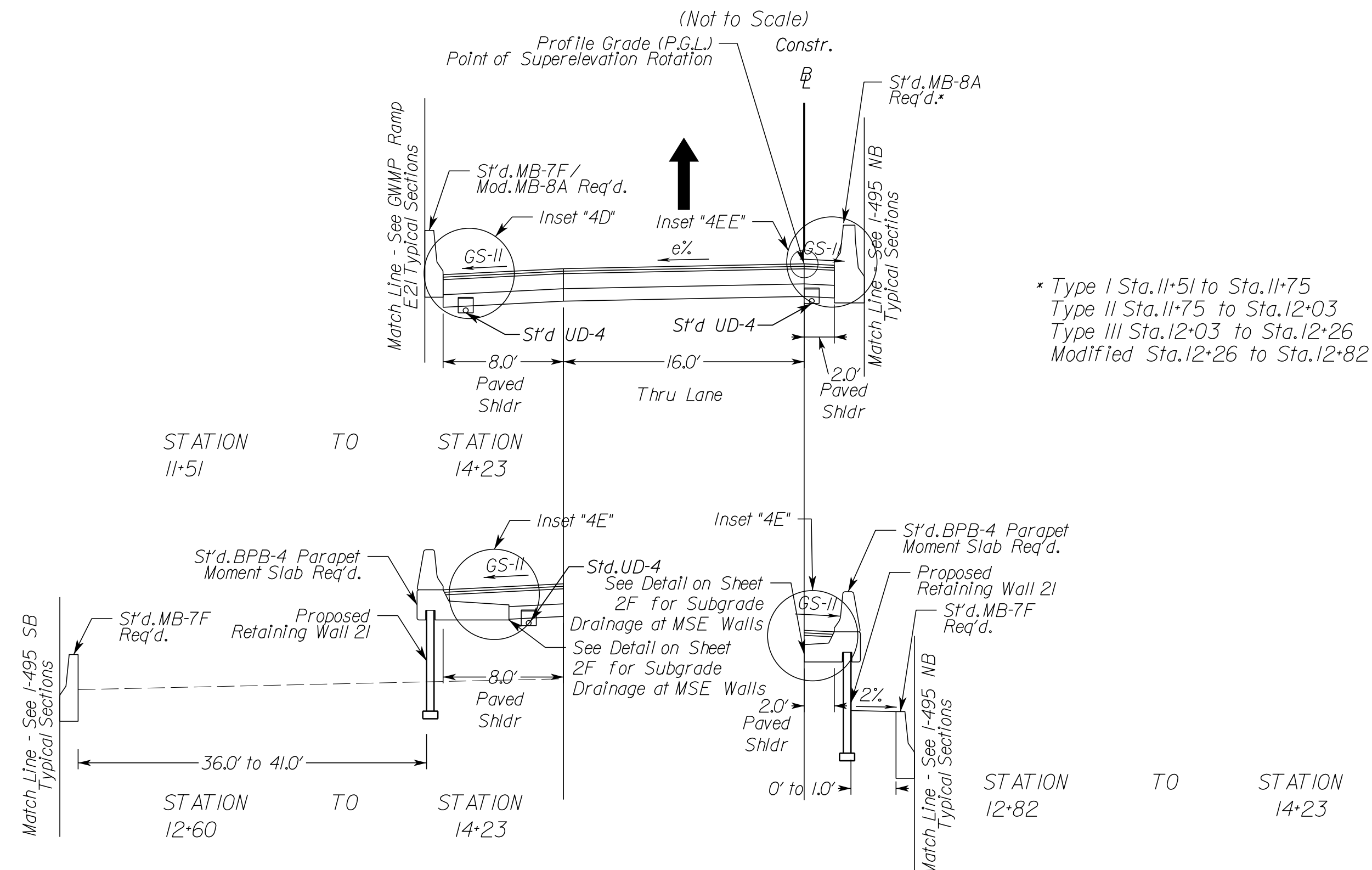
GWMP Ramp E21 Superelevated Section, Interchange Ramp

Geometric Design Standard for Interchange Ramps (GS-R): V=30 MPH
(Not to Scale)



GWMP Ramp E22 Superelevated Section, Interchange Ramp

Geometric Design Standard for Interchange Ramps (GS-R): V=30 MPH
(Not to Scale)



TYPICAL SECTION NOTES

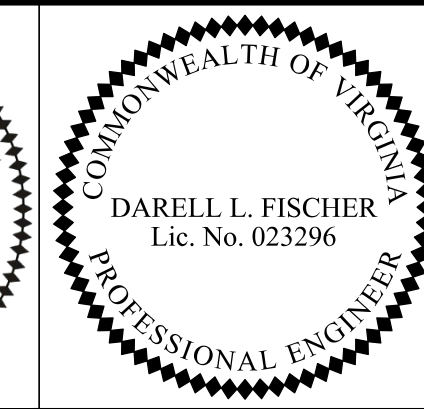
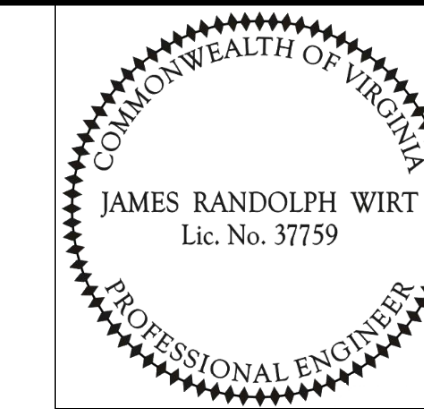
- Pavement widening to be performed in accordance with VDOT S't'd.WP-2
- S't'd.UD-4 Req'd., see plan sheets for detailed locations.
- S't'd.UD-2 Req'd., see plan sheets for detailed locations.
- When widening existing pavement, the pavement subgrade slope shall be designed such that the existing pavement subbase material can properly drain to a standard UD-4 edge drain.
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- Transverse pavement build-up shall be in conformance with the Asphalt Concrete Build-up Detail on sheet 2B(14). Longitudinal build-up shall be in conformance with VDOT Standard ACOT-1.
- The VDOT District Materials Engineer shall be notified within 24 hours of exposing the existing concrete, and at least 48 hours prior to the placement of widening pavement, to allow for verification of the exposed edge of pavement.
- Existing underdrain locations shown in typical sections are assumed. All existing underdrains that are impacted by the proposed reconstruction shall be removed and replaced to promote positive drainage.

N.T.S.	VDOT PROJECT NO. 0495-029-419	SHEET NO. 2B(7) AREA 4
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APPROVED FOR CONSTRUCTION

NOVA DISTRICT

PROJECT MANAGER_VDOT - Rupal Shah, P.E. (703) 259-2362
 SURVEYED BY, DATE_RDA - Nicholas Kaugaulis, LS (703) 334-0837, 12/2021
 DESIGN BY_RDA - Darrell Fischer, P.E. (703) 334-0823
 SUBSURFACE UTILITY BY, DATE_Accumark - Michael Taylor, LS (703) 635-3060, 12/2021



ECS
 Chantilly, Virginia
 (GEOTECHNICAL ENGINEER)

Rinker Design Assoc., P.C.
 Manassas, Virginia
 (ROADWAY ENGINEER)

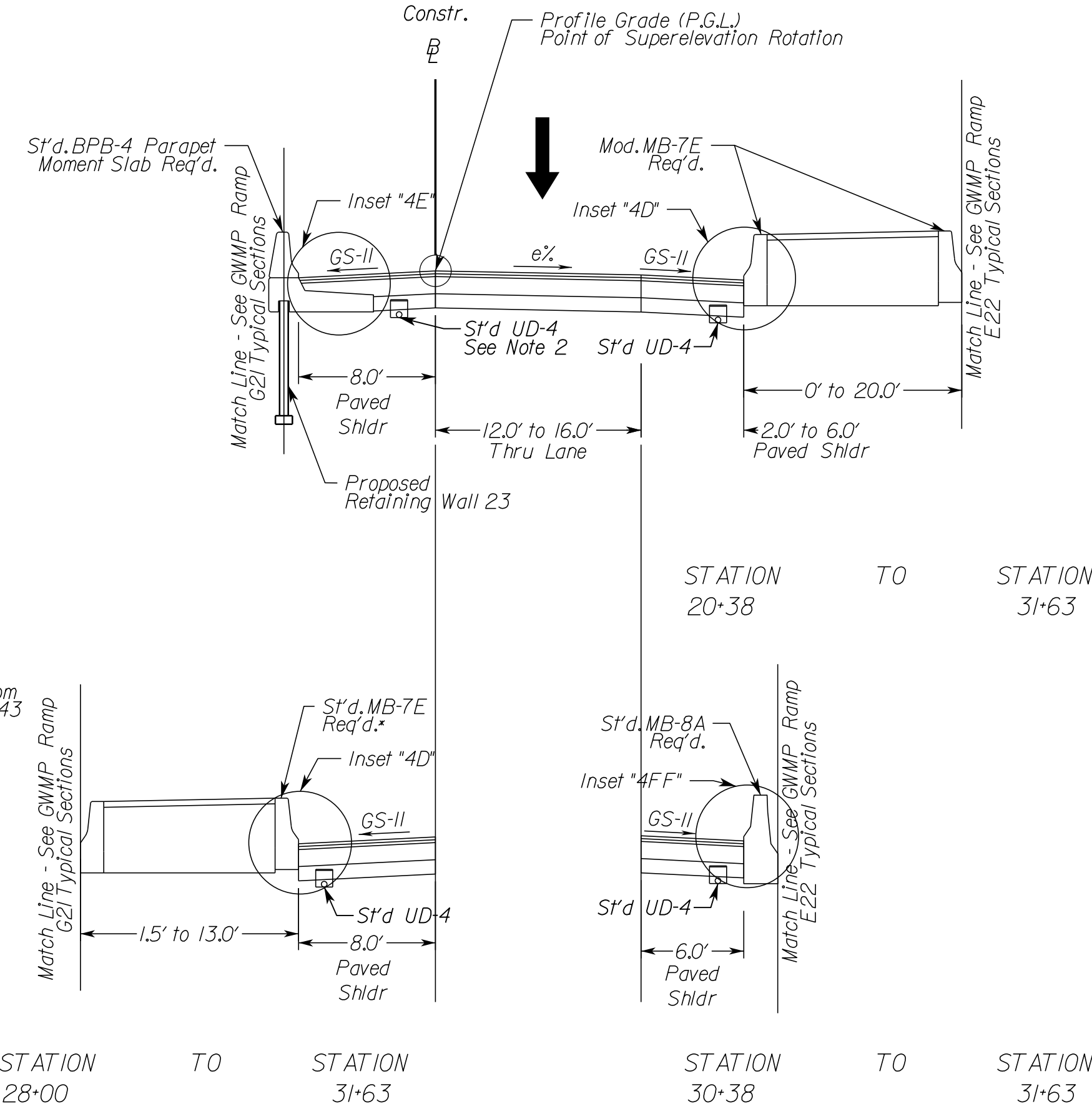
REVISED	STATE	ROUTE	STATE	VDOT PROJECT NO.	SHEET NO.
	VA.	495		0495-029-419 C501 RW201	2B(8) AREA 4

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

Typical Sections

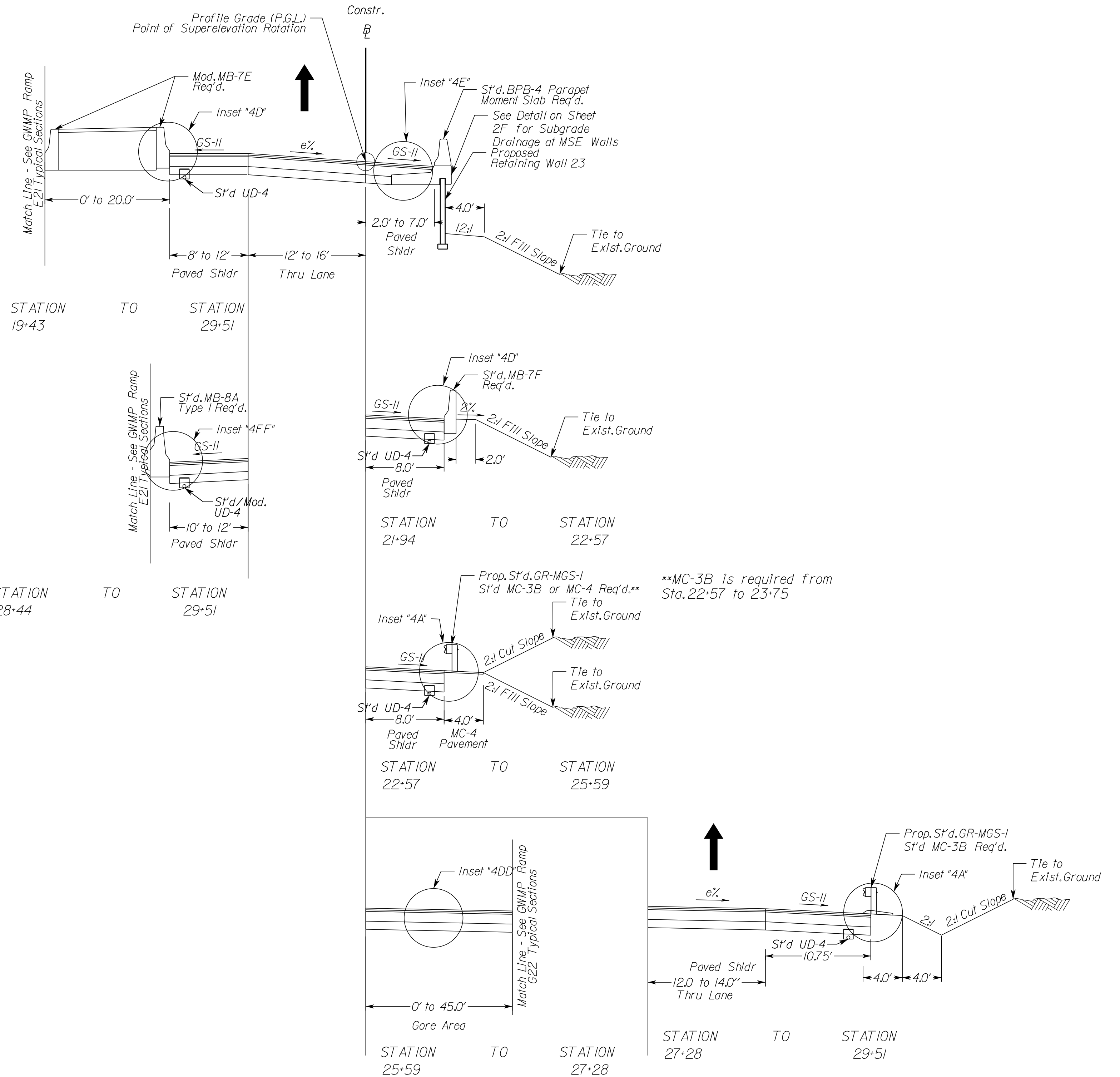
GWMP Ramp E21 Superelevated Section, Interchange Ramp

Geometric Design Standard for Interchange Ramps (GS-R): V=30 MPH
 (Not to Scale)



GWMP Ramp E22 Superelevated Section, Interchange Ramp

Geometric Design Standard for Interchange Ramp (GS-R): V=30 MPH
 (Not to Scale)



* Mod. MB-7E Req'd. from Sta. 28+00 to Sta. 30+43

**MC-3B is required from Sta. 22+57 to 23+75

TYPICAL SECTION NOTES

1. Pavement widening to be performed in accordance with VDOT S't'd. WP-2
2. S't'd. UD-4 Req'd., see plan sheets for detailed locations.
3. S't'd. UD-2 Req'd., see plan sheets for detailed locations.
4. When widening existing pavement, the pavement subgrade slope shall be designed such that the existing pavement subbase material can properly drain to a standard UD-4 edge drain.
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NOVA DISTRICT

10/26/2022

APPROVED FOR CONSTRUCTION

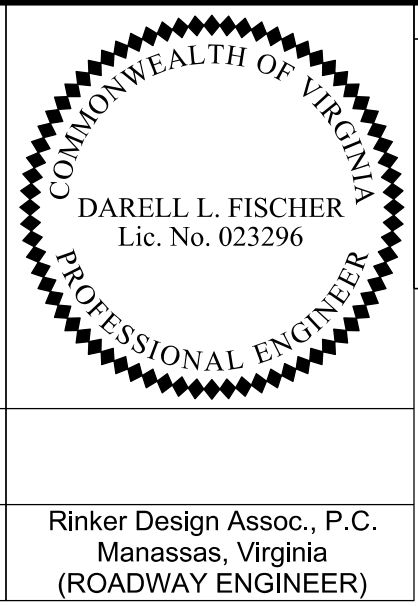
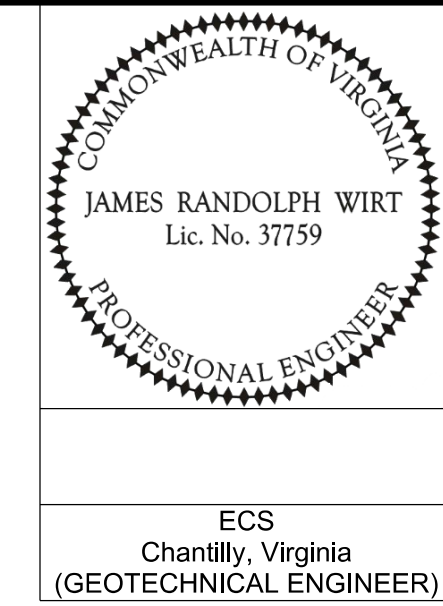
N.T.S.

VDOT PROJECT NO.
0495-029-419

SHEET NO.
2B(8)
AREA 4

PROJECT MANAGER_VDOT - Firapal, Shah, P.E. (703) 259-2362
SURVEYED BY, DATE_RDA - Nicholas, Kougoullis, L.S. (703) 334-0837, 12/2021
DESIGN BY_RDA - Darell, Fischer, P.E. (703) 334-0823
SUBSURFACE UTILITY BY, DATE_Accumark - Michael, Taylor, L.S. (703) 635-3060, 12/2021

REVISED	STATE	ROUTE	STATE		SHEET NO.
			VDOT PROJECT NO.		
	VA	495	0495-029-419 C501 RW201		2B(9) AREA 4



ECS
Chantilly, Virginia
(GEOTECHNICAL ENGINEER)

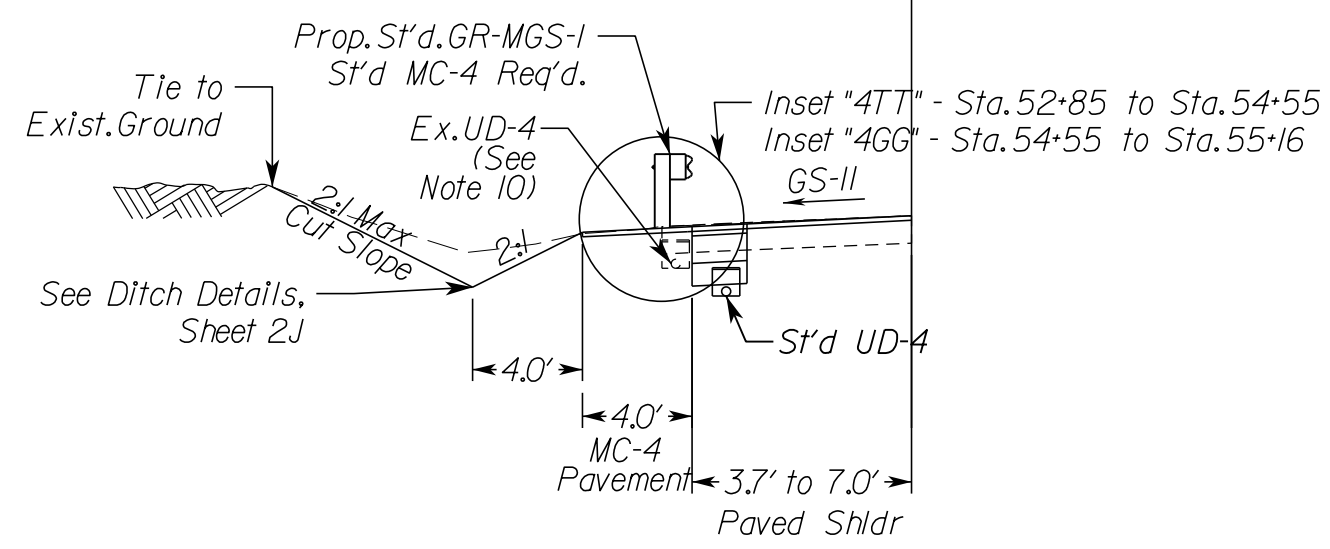
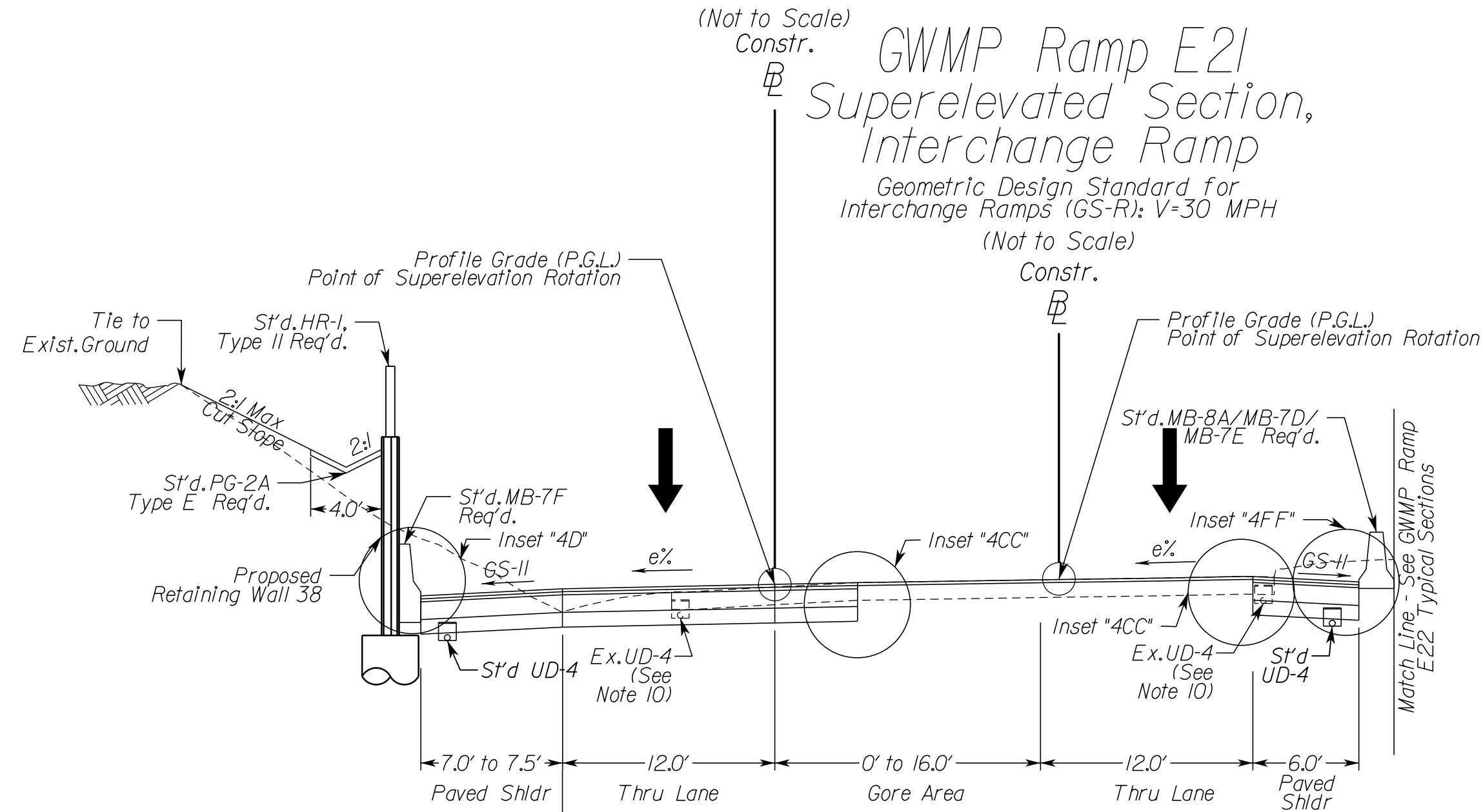
Rinker Design Assoc., P.C.
Manassas, Virginia
(ROADWAY ENGINEER)

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

Typical Sections

GWMP Ramp G21 Superelevated Section, Interchange Ramp

Geometric Design Standard for Interchange Ramps (GS-R): V=30 MPH



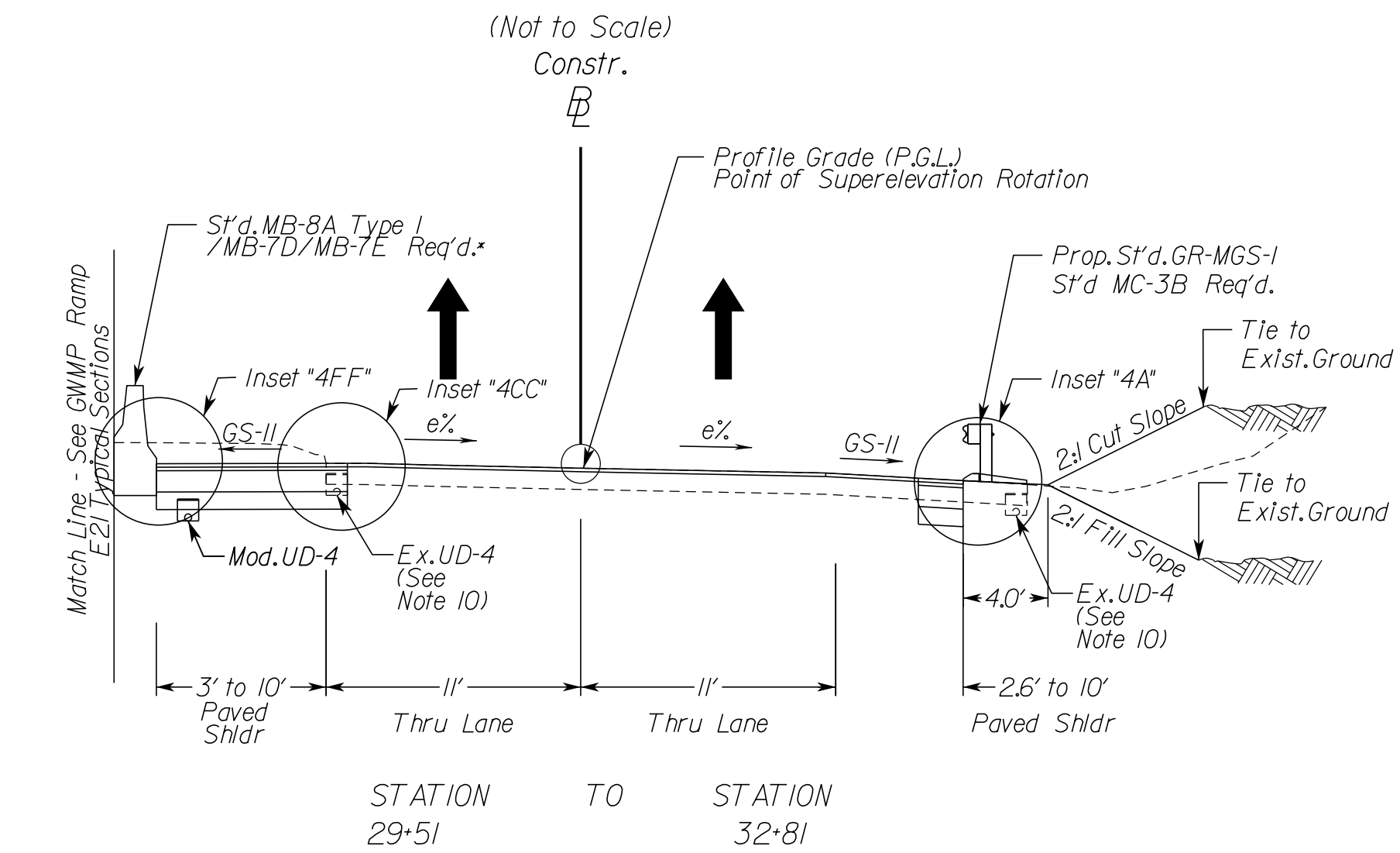
STATION 52+85 TO STATION 55+16 GWMP Ramp G21

GWMP Ramp E21 Superelevated Section, Interchange Ramp

Geometric Design Standard for Interchange Ramps (GS-R): V=30 MPH

GWMP Ramp E22 Superelevated Section, Interchange Ramp

Geometric Design Standard for Interchange Ramps (GS-R): V=30 MPH



TYPICAL SECTION NOTES

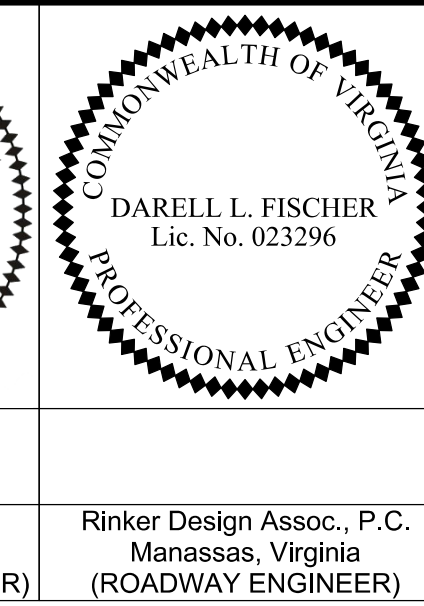
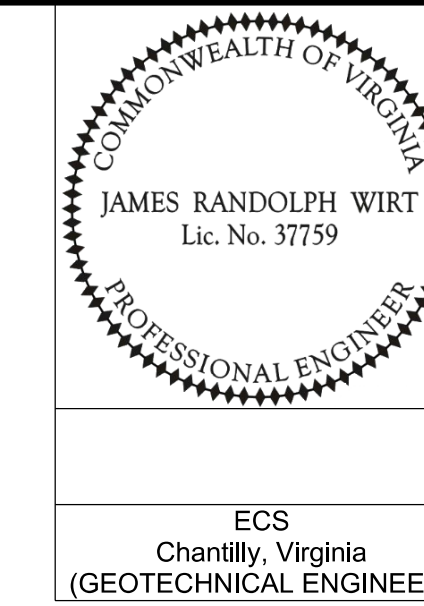
1. Pavement widening to be performed in accordance with VDOT S't'd. WP-2
2. S't'd. UD-4 Req'd., see plan sheets for detailed locations.
3. S't'd. UD-2 Req'd., see plan sheets for detailed locations.
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- 10.

N.T.S.	VDOT PROJECT NO. 0495-029-419	SHEET NO. 2B(9) AREA 4
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APPROVED FOR CONSTRUCTION

PROJECT MANAGER VDOT - Rupal Shah, P.E. (703) 259-2362
 SURVEYED BY, DATE RDA - Nicholas Kaugall's, LS (703) 334-0837, 12/2021
 DESIGN BY RDA - Darrell Fischer, P.E. (703) 334-0823
 Dewberry - Ron Jakomilich, P.E. (703) 849-0651
 SUBSURFACE UTILITY BY, DATE Accumark - Michael Taylor, LS (703) 635-3060, 12/2021

Typical Sections



REVISED	STATE	ROUTE	STATE	VDOT PROJECT NO.	SHEET NO.
	VA.	495		0495-029-419 C501 RW201	2B(10) AREA 4

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

ECS
 Chantilly, Virginia
 (GEOTECHNICAL ENGINEER)

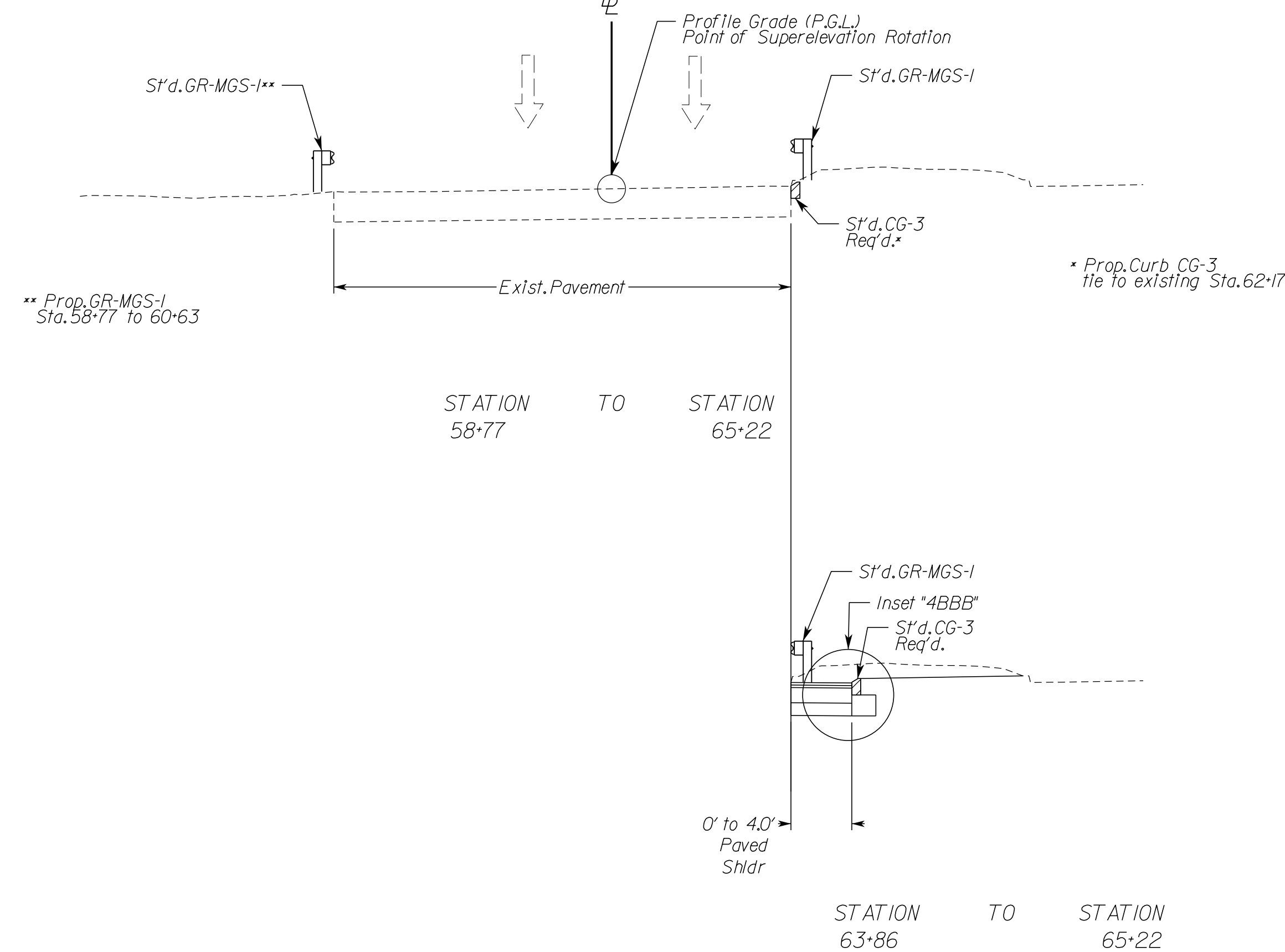
Rinker Design Assoc., P.C.
 Manassas, Virginia
 (ROADWAY ENGINEER)

GWMP Ramp G2I Superelevated Section, Interchange Ramp

Geometric Design Standard for Interchange Ramps (GS-R): V=30 MPH

(Not to Scale)

Constr.

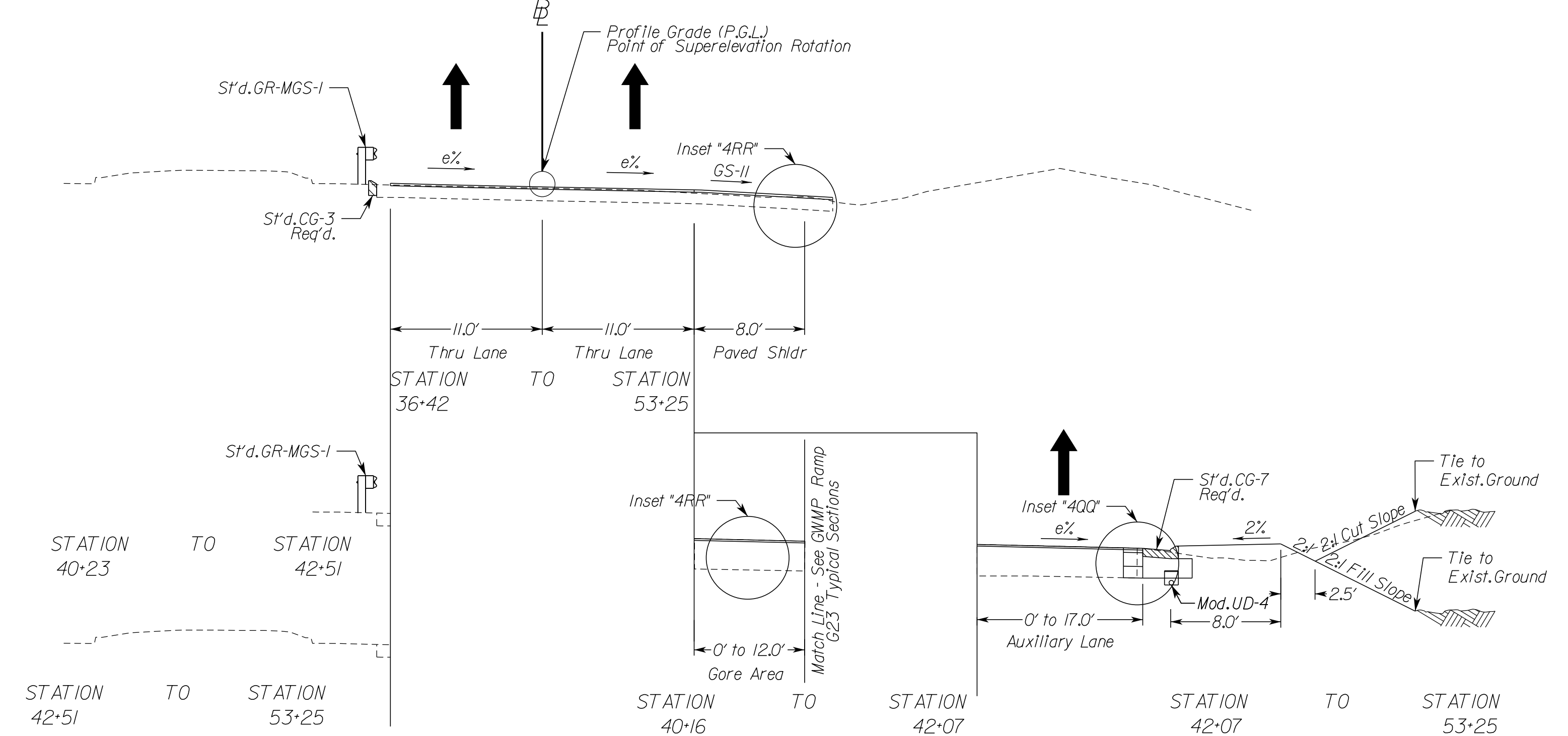


GWMP Ramp E22 Superelevated Section, Interchange Ramp

Geometric Design Standard for Interchange Ramps (GS-R): V=30 MPH

(Not to Scale)

Constr.



TYPICAL SECTION NOTES

1. Pavement widening to be performed in accordance with VDOT S't.d.WP-2
2. S't.d.UD-4 Req'd., see plan sheets for detailed locations.
3. S't.d.UD-2 Req'd., see plan sheets for detailed locations.
4. When widening existing pavement, the pavement subgrade slope shall be designed such that the existing pavement subbase material can properly drain to a standard UD-4 edge drain.
5. When widening the existing pavement the bottom of the new BM-25.0A shall be placed even with the bottom of the existing base asphalt.
6. The final surface course shall be placed in continuous operation across the full pavement width after all previous layers have been completed and shall include all areas where eradication of existing pavement markings have been performed for temporary tie-ins.
7. When liquid asphalt is used as a curing material for the cement stabilized course, it shall be liquid asphalt CRS-1, CR-1h or CMS-2 applied at a rate of 0.2 gal/sy. Where necessary for maintenance of traffic, cover material consisting of No.10 Aggregate of Grading B Sand shall be applied at a rate of 10 lbs/sy. All costs for such curing and materials shall be included in the bid price for the cement stabilized layer.
8. Transverse pavement build-up shall be in conformance with the Asphalt Concrete Build-up Detail on sheet 2B(14). Longitudinal build-up shall be in conformance with VDOT Standard ACOT-1.
9. The VDOT District Materials Engineer shall be notified within 24 hours of exposing the existing concrete, and at least 48 hours prior to the placement of widening pavement, to allow for verification of the exposed edge of pavement.
10. Existing underdrain locations shown in typical sections are assumed. All existing underdrains that are impacted by the proposed reconstruction shall be removed and replaced to promote positive drainage.

NOVA DISTRICT

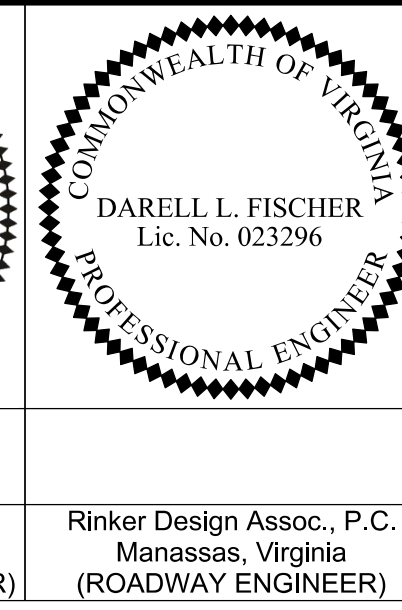
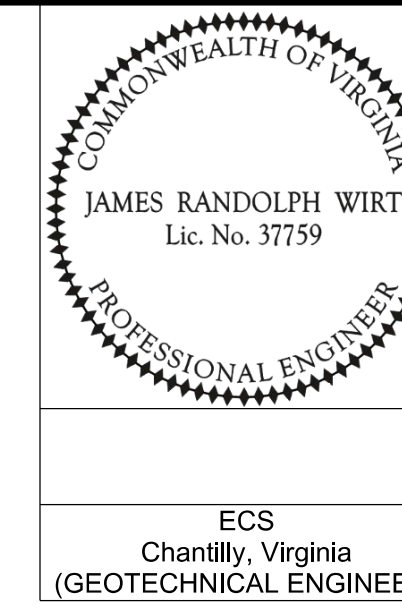
10/26/2022

N.T.S.	VDOT PROJECT NO. 0495-029-419	SHEET NO. 2B(10) AREA 4
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APPROVED FOR CONSTRUCTION

PROJECT MANAGER_VDOT - Firapal Shah, P.E. (703) 259-2362
 SURVEYED BY, DATE_RDA - Nicholas Kougaull's LS (703) 334-0837, 12/2021
 DESIGN BY_RDA - Darrell Fischer, P.E. (703) 334-0823
 Dewberry - Ron Jakaralovich, P.E. (703) 849-0651
 SUBSURFACE UTILITY BY, DATE_Accumark - Michael Taylor, LS (703) 635-3060, 12/2021

Typical Section Details

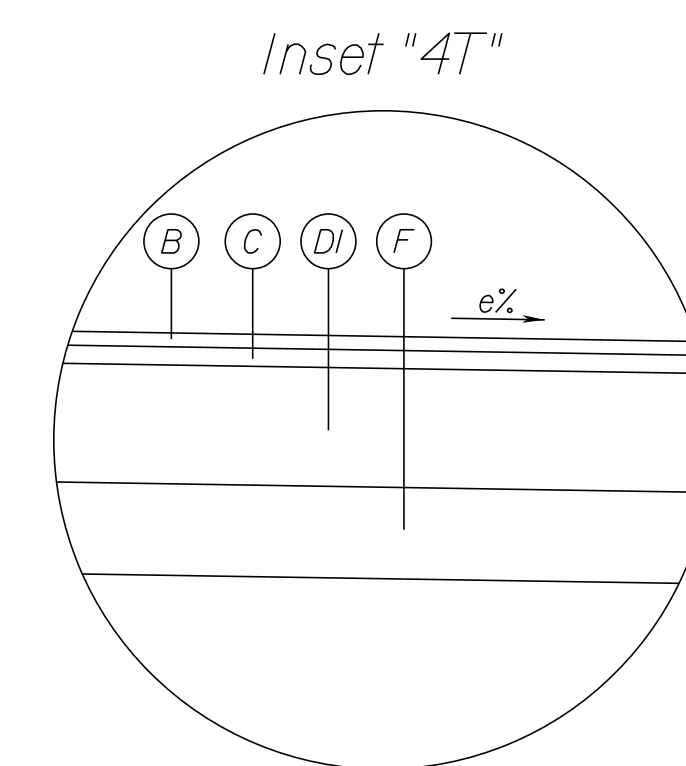
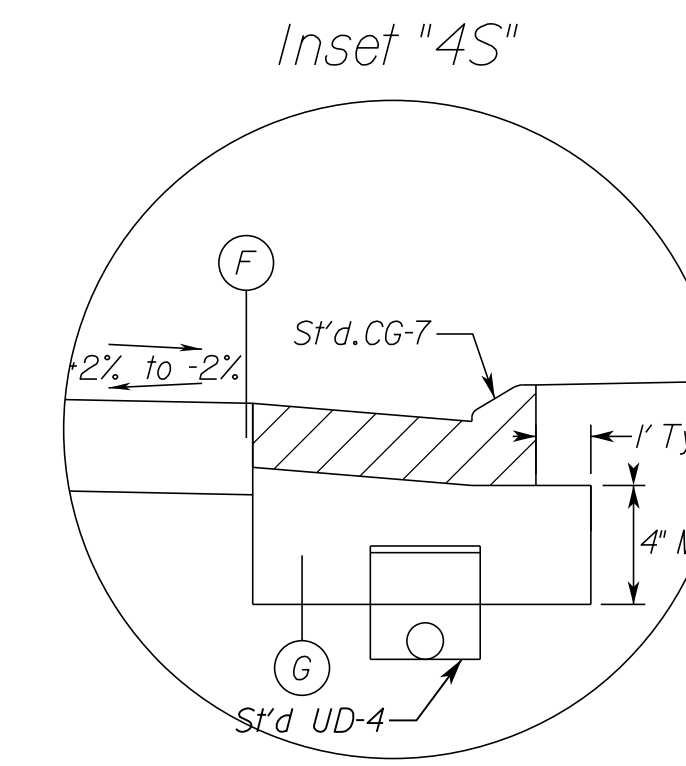
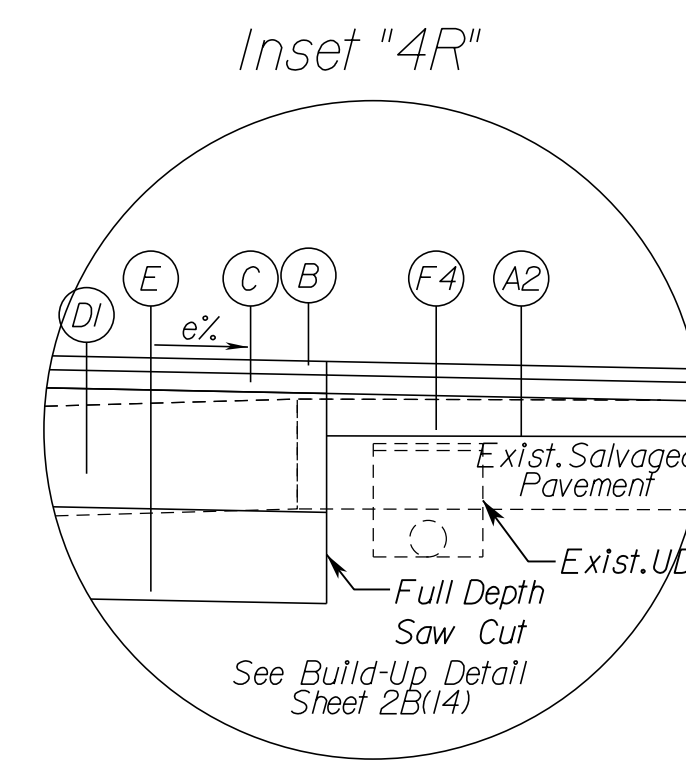
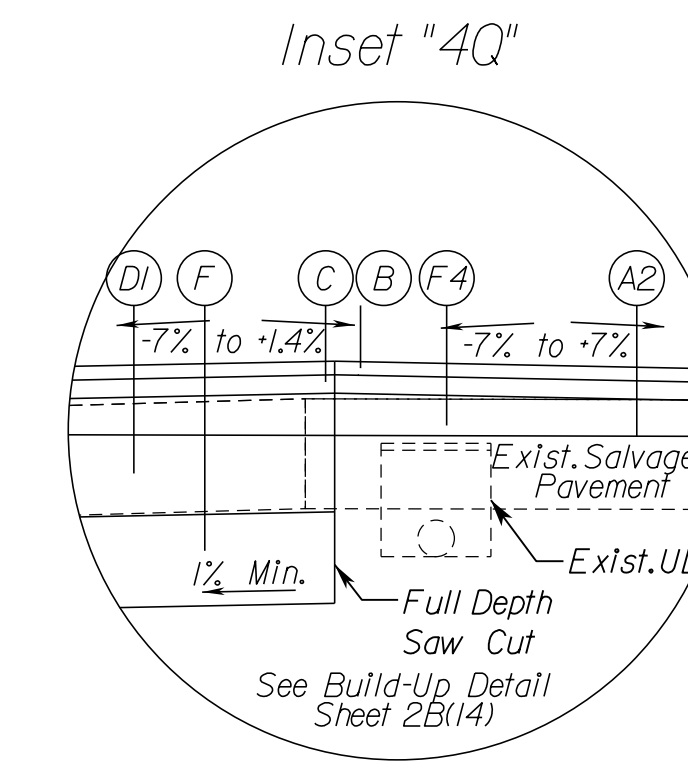
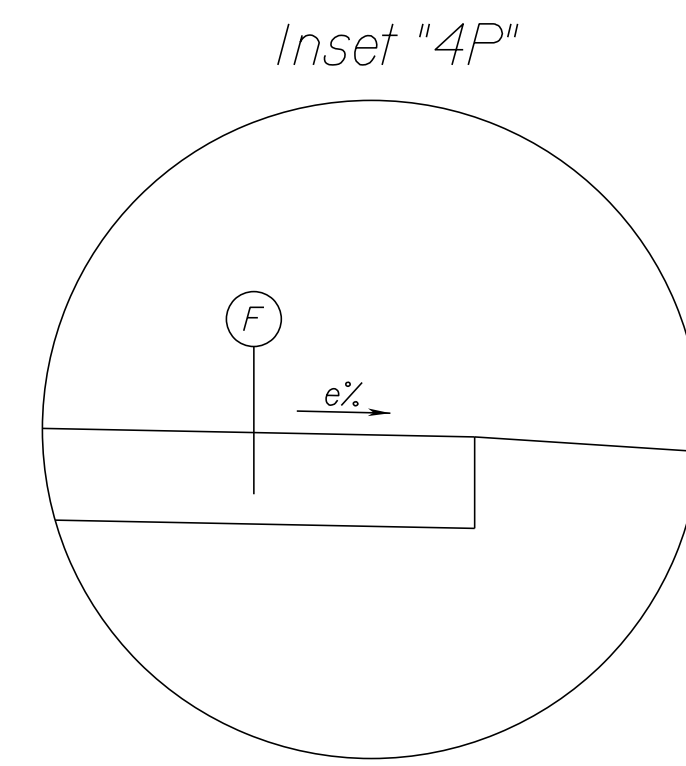
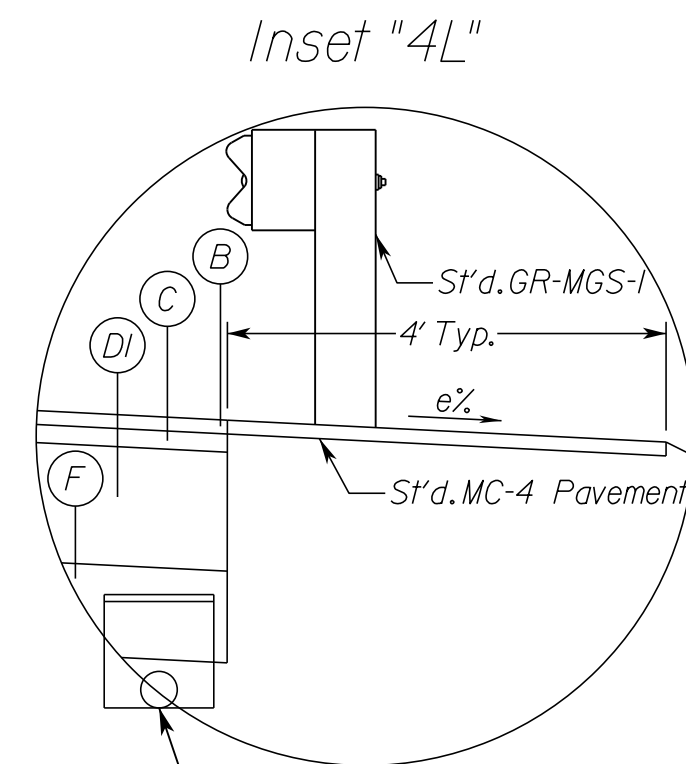
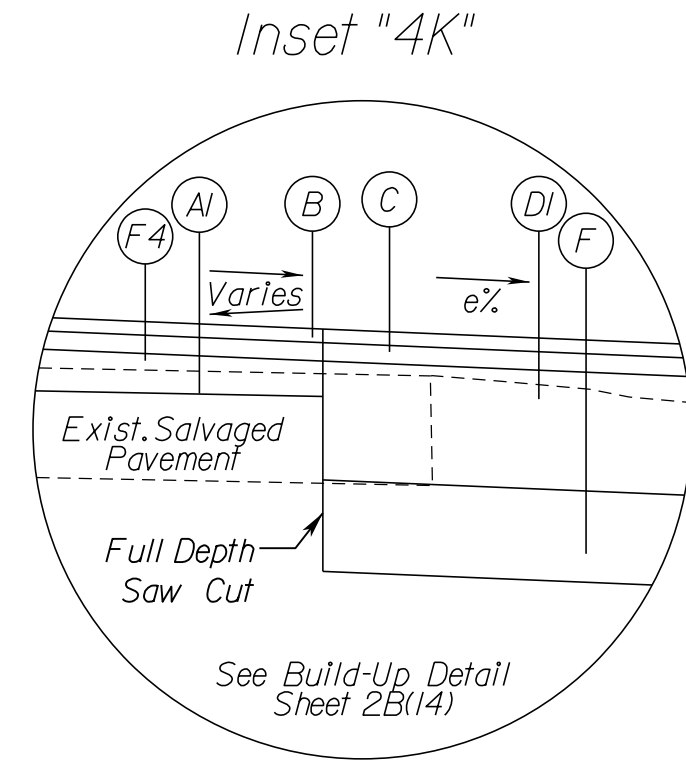
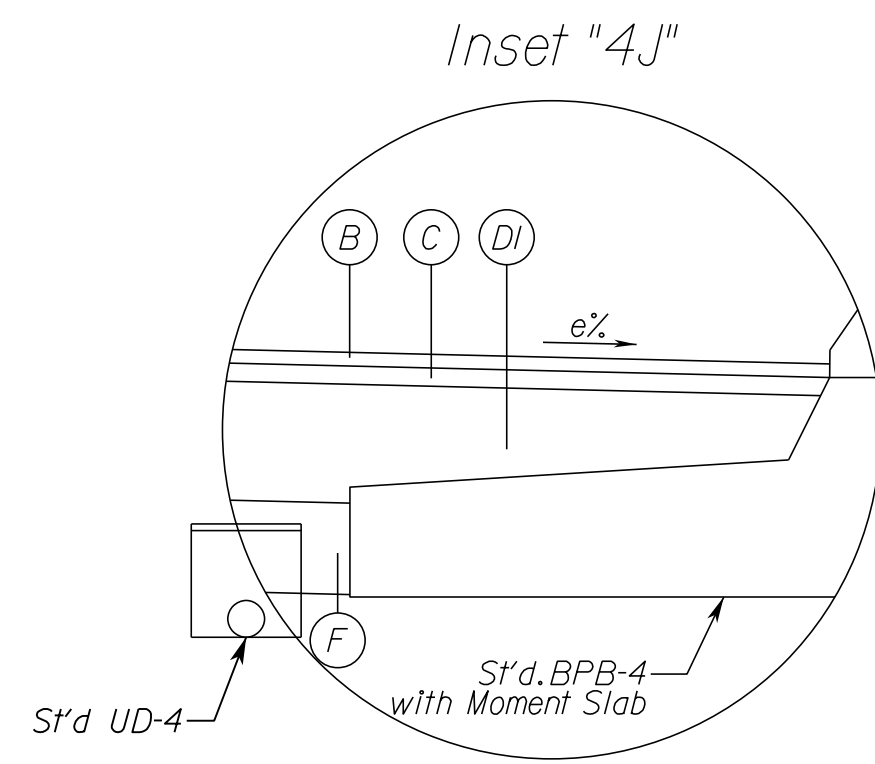
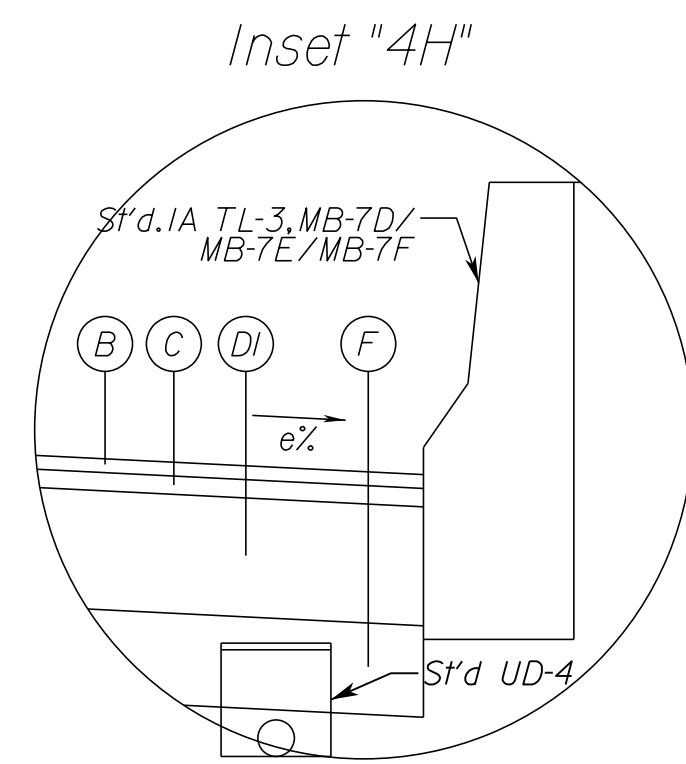
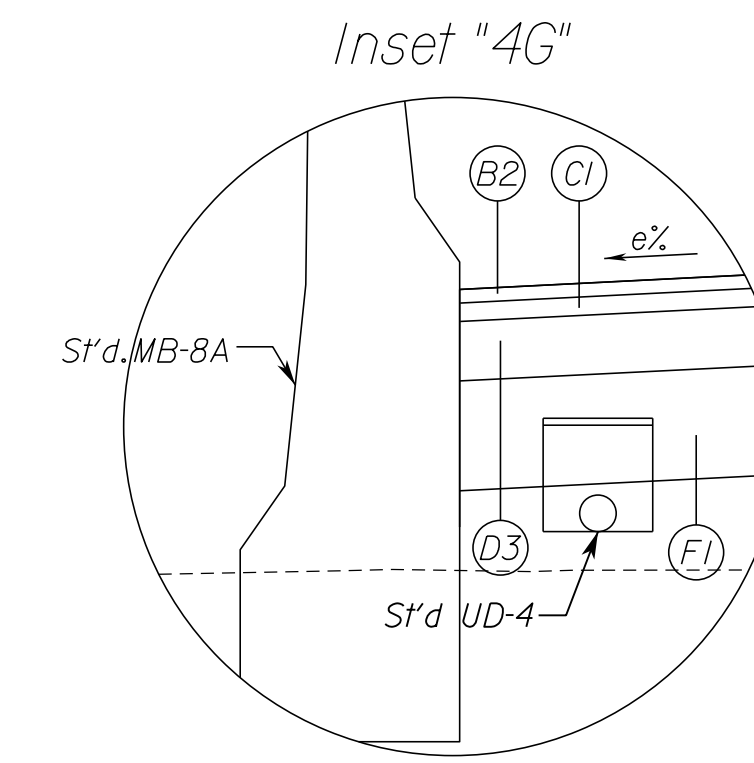
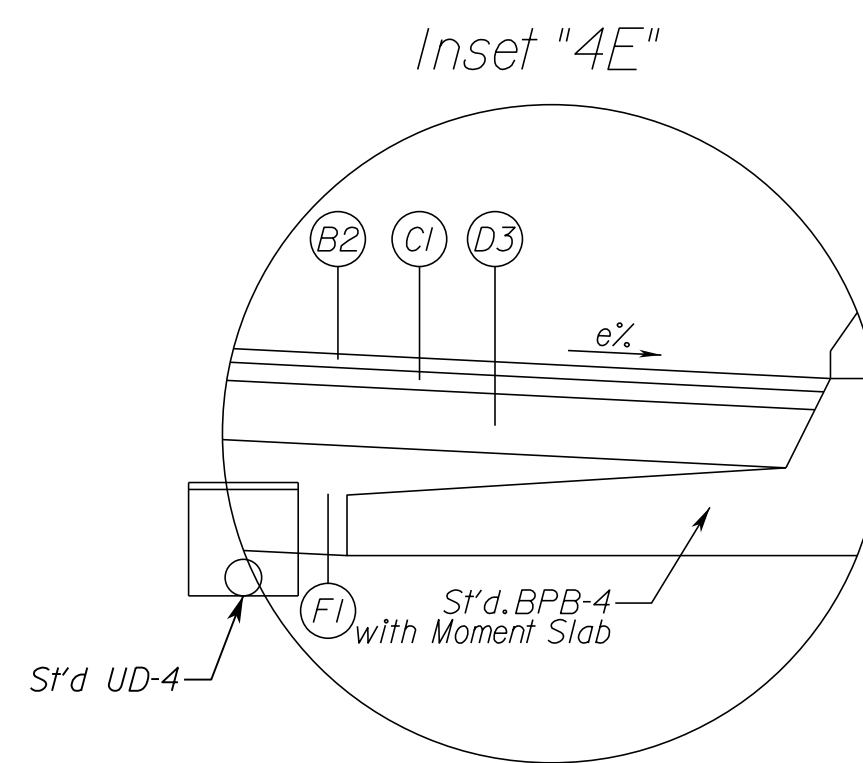
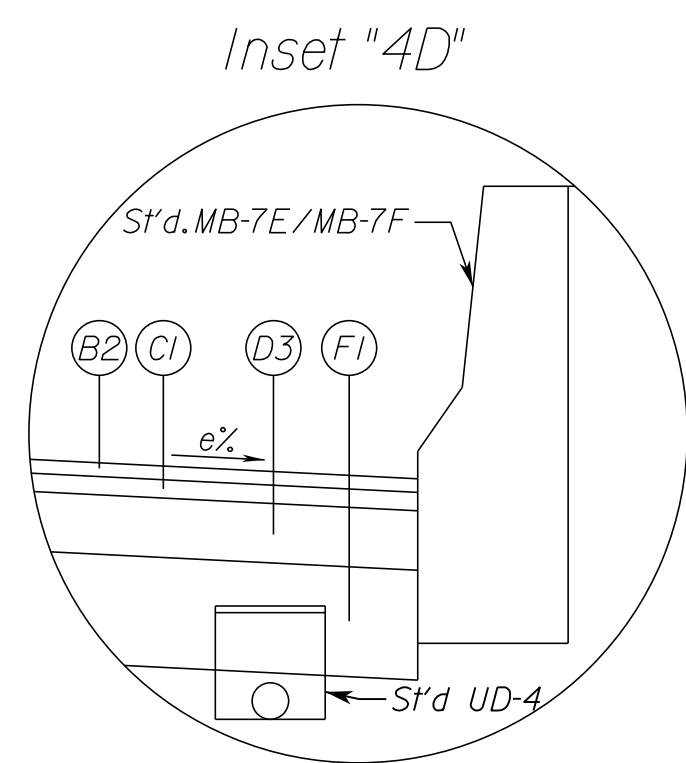
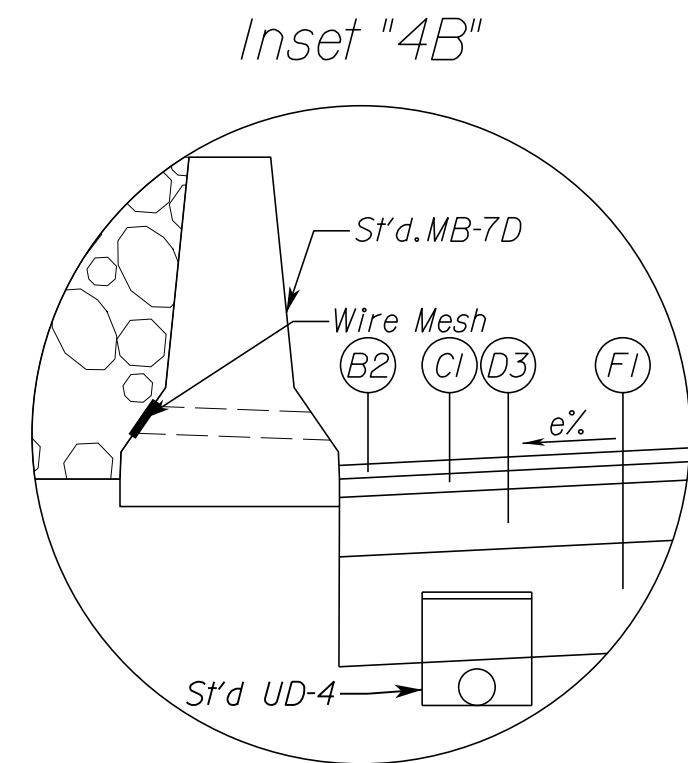
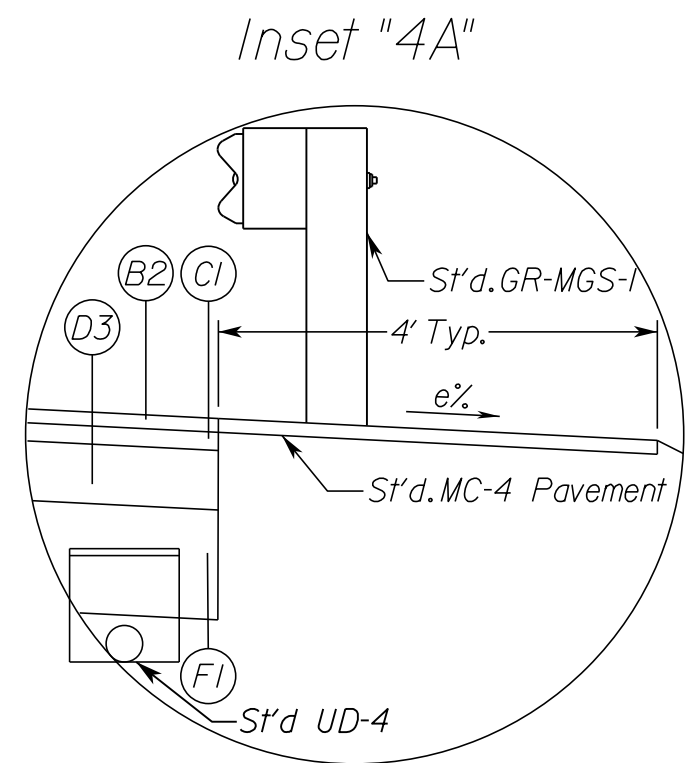


REVISED	STATE	ROUTE	STATE	VDOT PROJECT NO.	SHEET NO.
	VA	495		0495-029-419 C501 RW201	2B(II) AREA 4

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

ECS
Chantilly, Virginia
(GEOTECHNICAL ENGINEER)

Rinker Design Assoc., P.C.
Manassas, Virginia
(ROADWAY ENGINEER)



PAVEMENT INSET LEGEND

- (A) Mill Existing Asphalt Surface - 1.5 Inch Depth
- (A1) Mill Existing Asphalt Surface - 2 Inch Depth
- (A2) Mill Existing Asphalt Surface - 4 Inch Depth
- (B) Asphalt Concrete Surface Course, Type SMA-9.5 (PG64E-22) - 1.5 Inch Depth
- (B1) Asphalt Concrete Surface Course, Type SM-9.5A - 1.5 Inch Depth
- (B2) Asphalt Concrete Surface Course, Type SM-9.5D - 1.5 Inch Depth
- (C) Asphalt Concrete Intermediate Course, Type SMA-12.5 (PG64E-22) - 2 Inch Depth
- (C1) Asphalt Concrete Intermediate Course, Type IM-19.0D - 2 Inch Depth
- (C2) Asphalt Concrete Intermediate Course, Type IM-19.0A - 2 Inch Depth
- (D) Asphalt Concrete Base Course, Type BM-25.0D*0.4 High Modulus, High Binder (PG64H-22) - 13 Inch Depth
- (D3) Asphalt Concrete Base Course, Type BM-25.0A - 6.5 Inch Depth
- (D4) Asphalt Concrete Base Course, Type BM-25.0D*0.4 High Modulus, High Binder (PG64H-22) - 10.5 Inch Depth
- (D5) Asphalt Concrete Base Course, Type BM-25.0A - 3 Inch Depth
- (E) Cement Treated Aggr. Base Mat'l, Type 1 - 10 Inch Depth
- (F) Aggr. Base Mat'l, Type 1, Size No. 21B - 10 Inch Depth, connected to proposed edgedrain beneath outside edge of paved shoulder or beneath curb and gutter
- (F1) Aggr. Base Mat'l, Type 1, Size No. 21B - 12 Inch Depth, connected to proposed edgedrain beneath outside edge of paved shoulder or beneath curb and gutter
- (F3) Asphalt Concrete Base Course, Type BM-25.0A, Variable Depth For Build-Up Situations, Min. 2.5 Inch Depth. (See detail sheet 2B(14))
- (F4) Asphalt Concrete Base Course, Type BM25.0D*0.4 High Modulus, Variable Depth For Build-Up Situations, Min. 2.5 Inch Depth (See detail sheet 2B(14)).
- (G) Aggr. Base Mat'l, Type 1, Size No. 21A or 21B - 4 Inch Depth

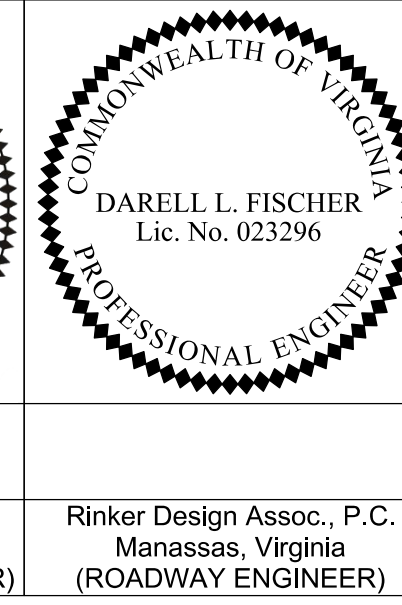
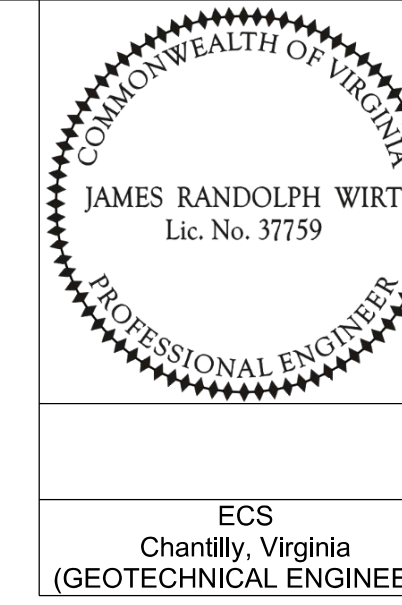
N.T.S.	VDOT PROJECT NO. 0495-029-419	SHEET NO. 2B(II) AREA 4
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APPROVED FOR CONSTRUCTION

NOVA DISTRICT

PROJECT MANAGER VDOT - Rupal Shah, P.E. (703) 259-2362
 SURVEYED BY, DATE RDA - Nicholas Kaugall, LS (703) 334-0837, 12/2021
 DESIGN BY RDA - Darrell Fischer, P.E. (703) 334-0823
 Dewberry - Ron Jakomlich, P.E. (703) 849-0651
 SUBSURFACE UTILITY BY, DATE Accumark - Michael Taylor, LS (703) 635-3060, 12/2021

Typical Section Details

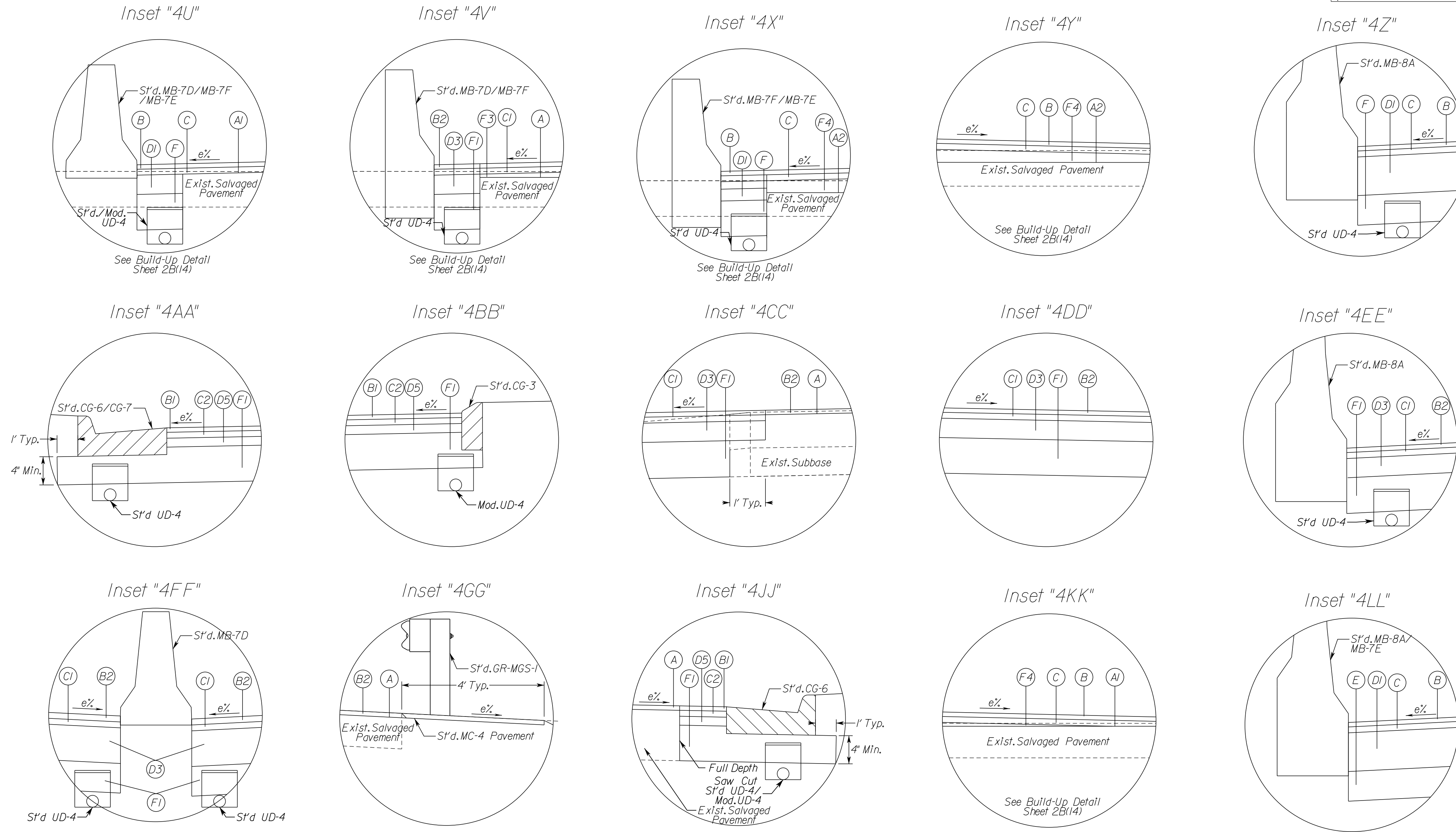


REVISED	STATE	ROUTE	STATE	VDOT PROJECT NO.	SHEET NO.
	VA.	495		0495-029-419 C501 RW201	2B(12) AREA 4

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

ECS
 Chantilly, Virginia
 (GEOTECHNICAL ENGINEER)

Rinker Design Assoc., P.C.
 Manassas, Virginia
 (ROADWAY ENGINEER)



- PAVEMENT INSET LEGEND**
- (A) Mill Existing Asphalt Surface - 1.5 Inch Depth
 - (A1) Mill Existing Asphalt Surface - 2 Inch Depth
 - (A2) Mill Existing Asphalt Surface - 4 Inch Depth
 - (B) Asphalt Concrete Surface Course, Type SMA-9.5 (PG64E-22) - 1.5 Inch Depth
 - (B1) Asphalt Concrete Surface Course, Type SM-9.5A - 1.5 Inch Depth
 - (B2) Asphalt Concrete Surface Course, Type SM-9.5D - 1.5 Inch Depth
 - (C) Asphalt Concrete Intermediate Course, Type SMA-12.5 (PG64E-22) - 2 Inch Depth
 - (C1) Asphalt Concrete Intermediate Course, Type IM-19.0D - 2 Inch Depth
 - (C2) Asphalt Concrete Intermediate Course, Type IM-19.0A - 2 Inch Depth
 - (D) Asphalt Concrete Base Course, Type BM-25.0D+0.4 High Modulus, High Binder (PG64H-22) - 13 Inch Depth
 - (D3) Asphalt Concrete Base Course, Type BM-25.0A - 6.5 Inch Depth
 - (D4) Asphalt Concrete Base Course, Type BM-25.0D+0.4 High Modulus, High Binder (PG64H-22) - 10.5 Inch Depth
 - (D5) Asphalt Concrete Base Course, Type BM-25.0A - 3 Inch Depth
 - (E) Cement Treated Aggr. Base Mat'l., Type 1 - 10 Inch Depth
 - (F) Aggr. Base Mat'l., Type 1, Size No. 21B - 10 Inch Depth, connected to proposed edgedrain beneath outside edge of paved shoulder or beneath curb and gutter
 - (F1) Aggr. Base Mat'l., Type 1, Size No. 21B - 12 Inch Depth, connected to proposed edgedrain beneath outside edge of paved shoulder or beneath curb and gutter
 - (F3) Asphalt Concrete Base Course, Type BM-25.0A, Variable Depth For Build-Up Situations, Min. 2.5 Inch Depth. (See detail sheet 2B(14))
 - (F4) Asphalt Concrete Base Course, Type BM25.0D+0.4 High Modulus, Variable Depth For Build-Up Situations, Min. 2.5 Inch Depth (See detail sheet 2B(14)).
 - (G) Aggr. Base Mat'l., Type 1, Size No. 21A or 21B - 4 Inch Depth

N.T.S.	VDOT PROJECT NO. 0495-029-419	SHEET NO. 2B(12) AREA 4
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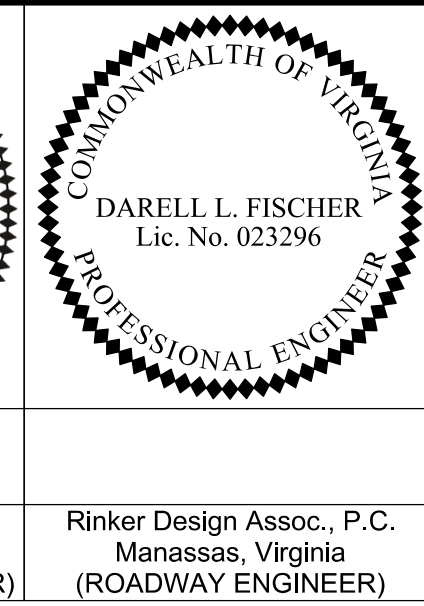
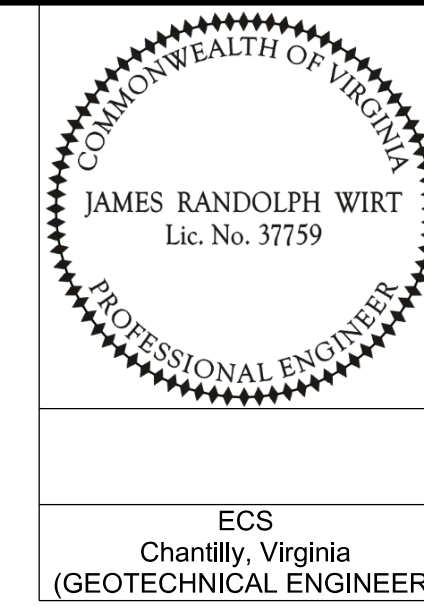
APPROVED FOR CONSTRUCTION

NOVA DISTRICT

10/26/2022

PROJECT MANAGER VDOT - Rupal Shah, P.E. (703) 259-2362
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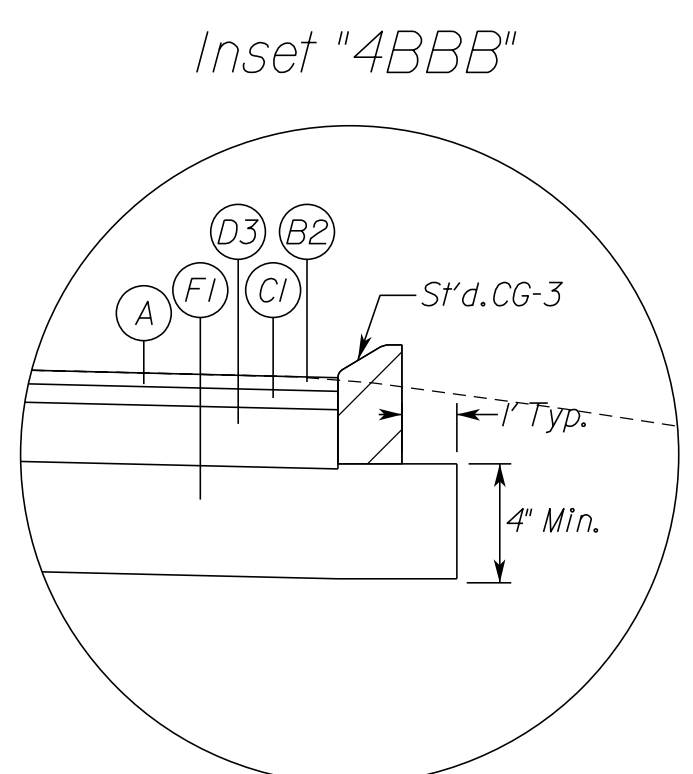
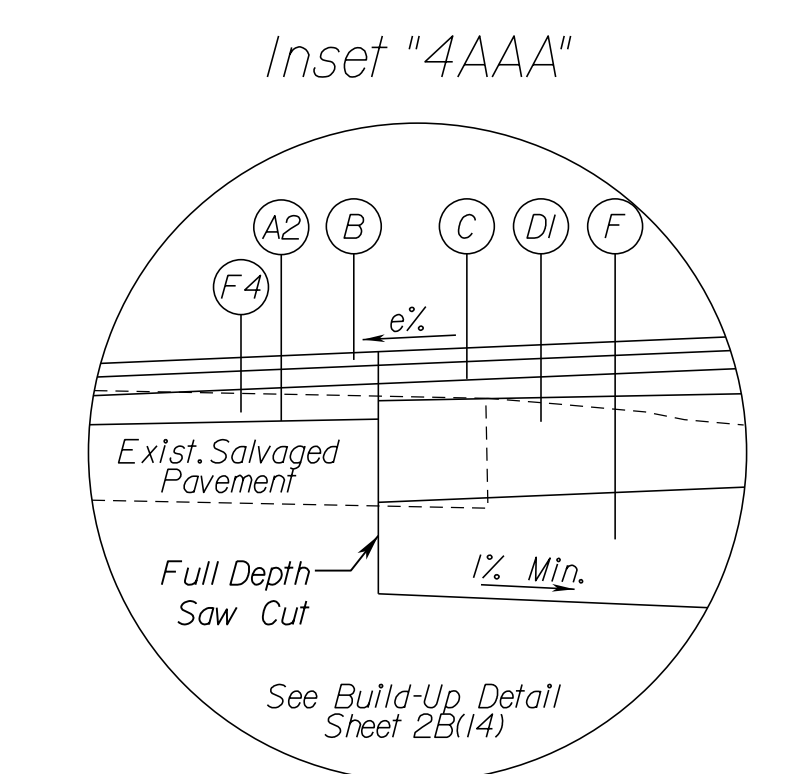
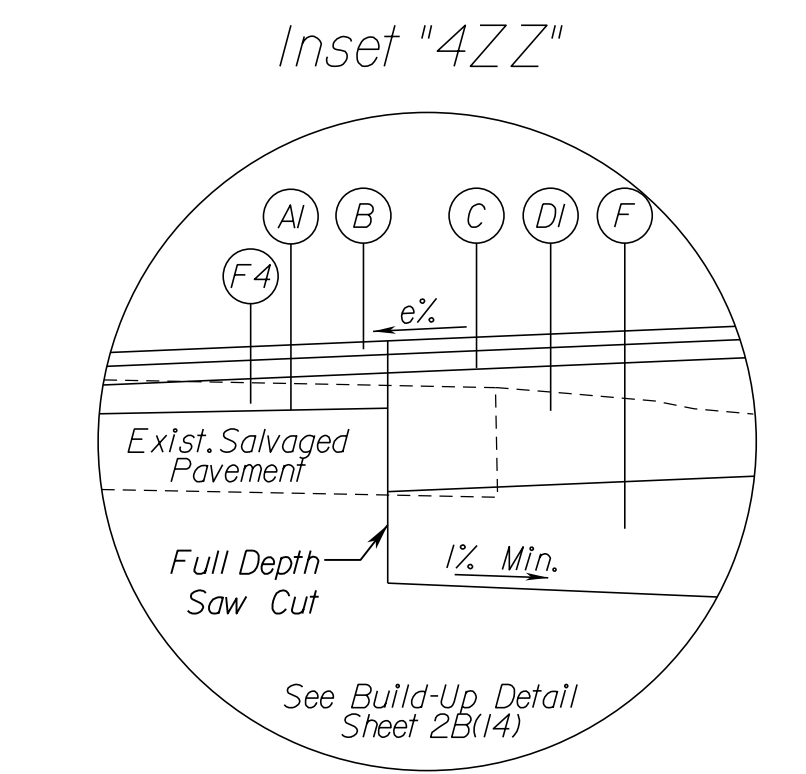
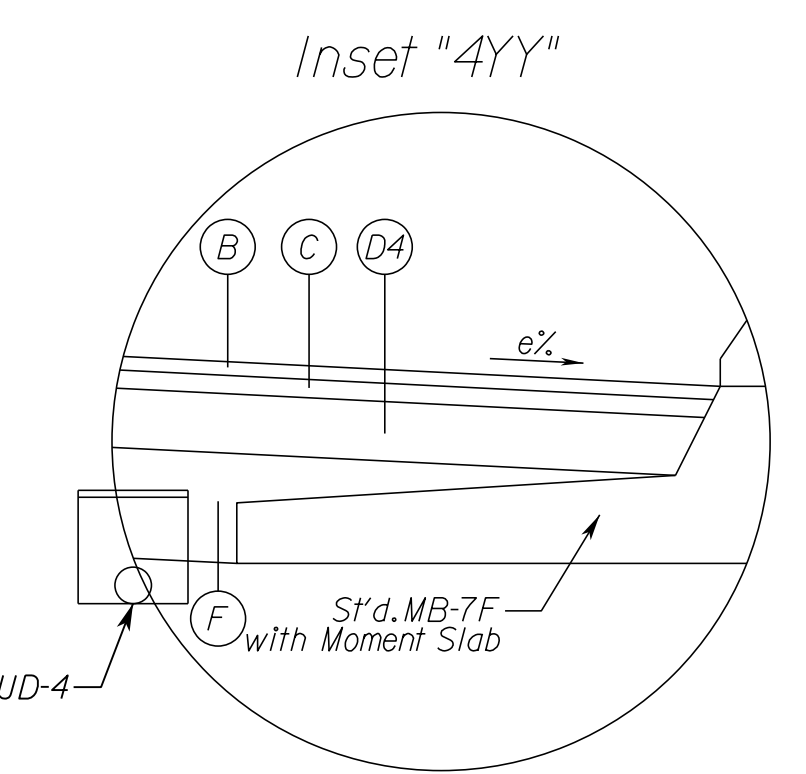
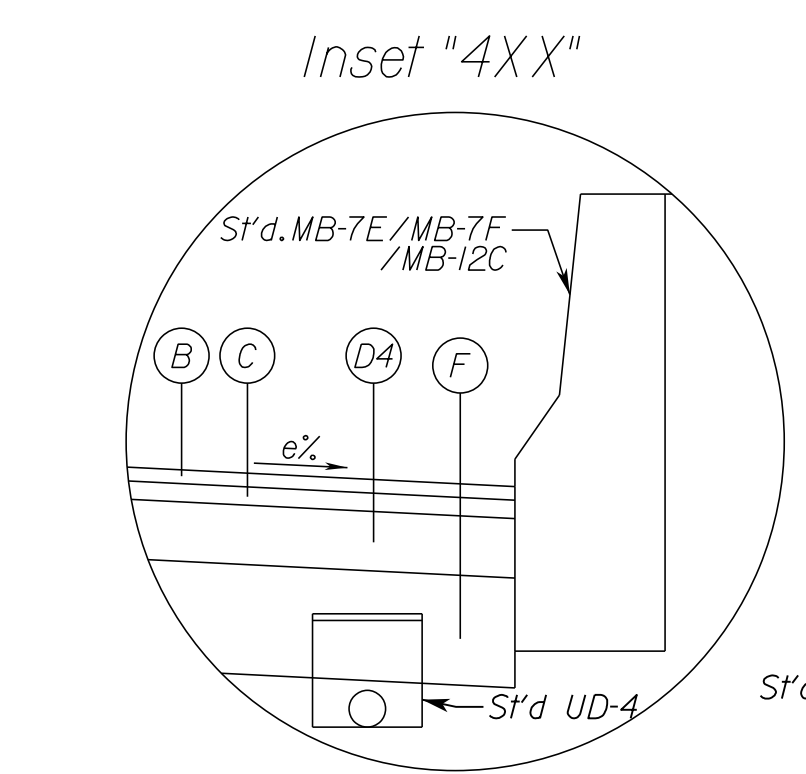
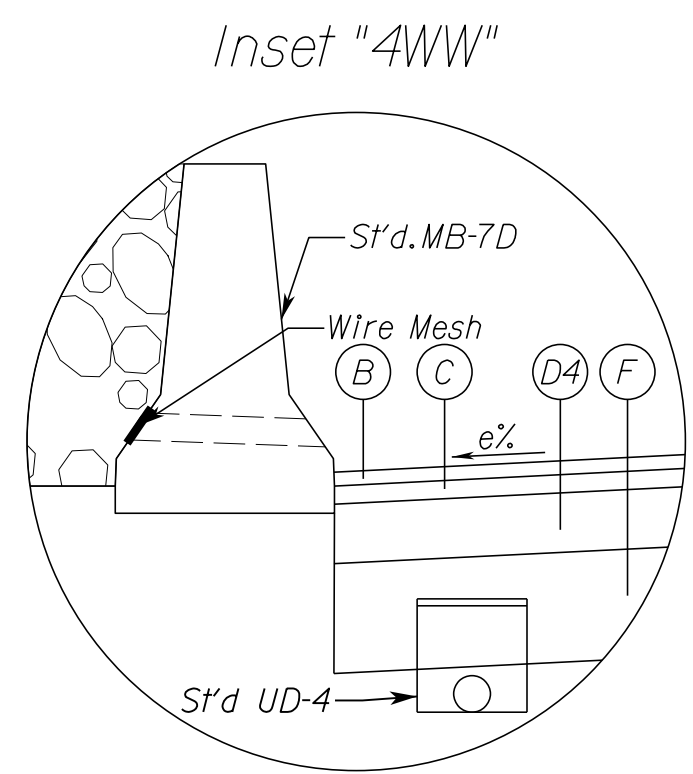
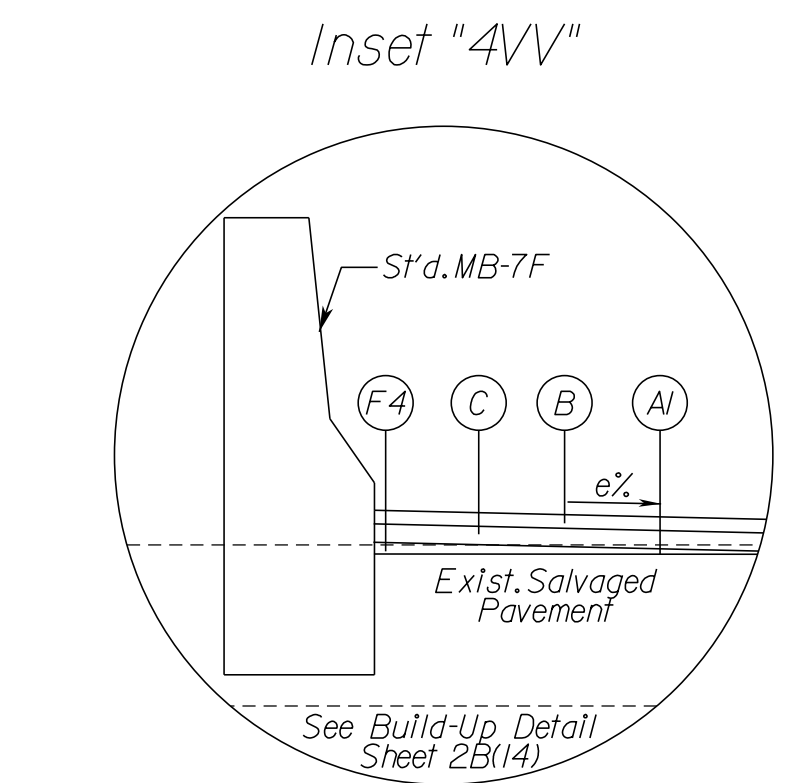
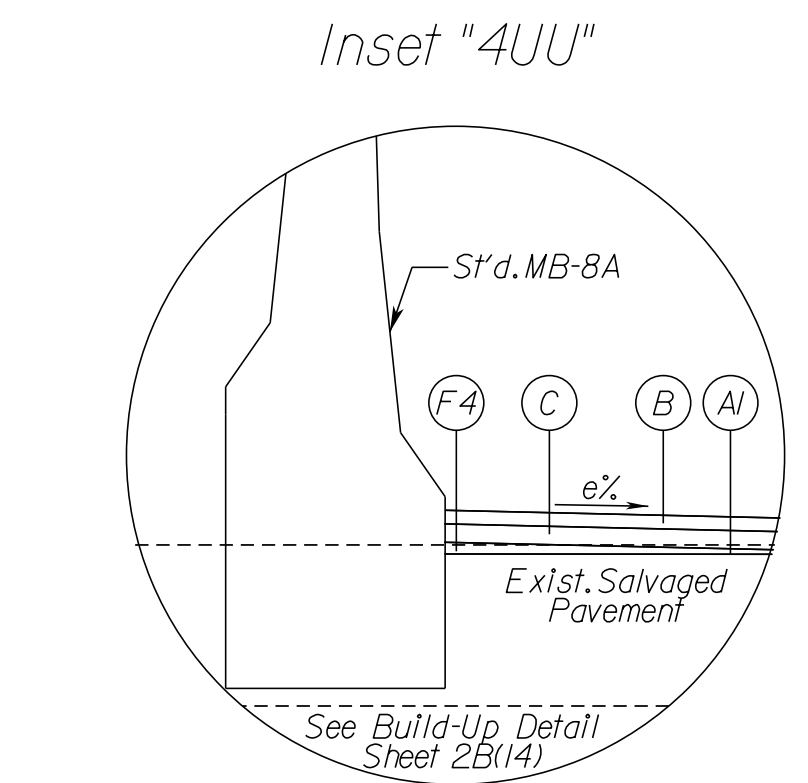
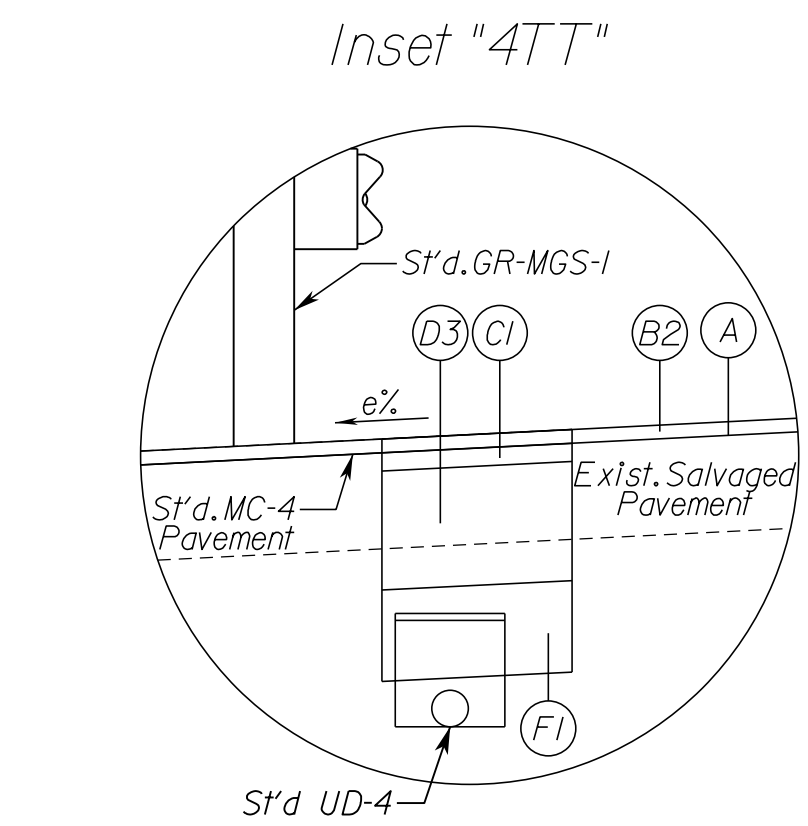
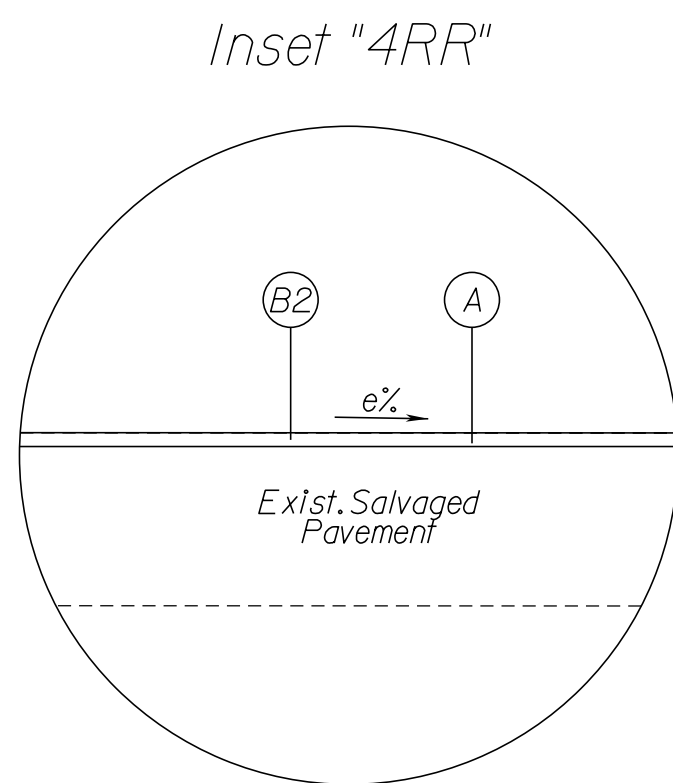
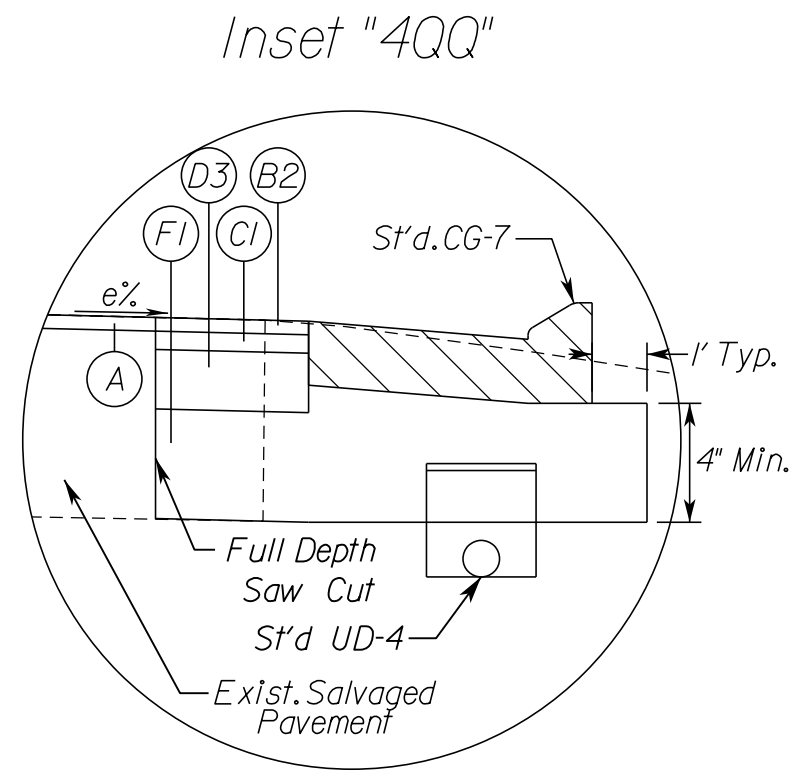


REVISED	STATE	ROUTE	STATE	VDOT PROJECT NO.	SHEET NO.
	VA.	495		0495-029-419 C501 RW201	2B(13) AREA 4

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

ECS
 Chantilly, Virginia
 (GEOTECHNICAL ENGINEER)

Rinker Design Assoc., P.C.
 Manassas, Virginia
 (ROADWAY ENGINEER)



PAVEMENT INSET LEGEND

- (A) Mill Existing Asphalt Surface - 1.5 Inch Depth
- (A1) Mill Existing Asphalt Surface - 2 Inch Depth
- (A2) Mill Existing Asphalt Surface - 4 Inch Depth
- (B) Asphalt Concrete Surface Course, Type SMA-9.5 (PG64E-22) - 1.5 Inch Depth
- (B1) Asphalt Concrete Surface Course, Type SM-9.5A - 1.5 Inch Depth
- (B2) Asphalt Concrete Surface Course, Type SM-9.5D - 1.5 Inch Depth
- (C) Asphalt Concrete Intermediate Course, Type SMA-12.5 (PG64E-22) - 2 Inch Depth
- (C1) Asphalt Concrete Intermediate Course, Type IM-19.0D - 2 Inch Depth
- (C2) Asphalt Concrete Intermediate Course, Type IM-19.0A - 2 Inch Depth
- (D1) Asphalt Concrete Base Course, Type BM-25.0D*0.4 High Modulus, High Binder (PG64H-22) - 13 Inch Depth
- (D3) Asphalt Concrete Base Course, Type BM-25.0A - 6.5 Inch Depth
- (D4) Asphalt Concrete Base Course, Type BM-25.0D*0.4 High Modulus, High Binder (PG64H-22) - 10.5 Inch Depth
- (D5) Asphalt Concrete Base Course, Type BM-25.0A - 3 Inch Depth
- (E) Cement Treated Aggr. Base Mat'l., Type 1 - 10 Inch Depth
- (F) Aggr. Base Mat'l., Type 1, Size No. 21B - 10 Inch Depth, connected to proposed edgedrain beneath outside edge of paved shoulder or beneath curb and gutter
- (F1) Aggr. Base Mat'l., Type 1, Size No. 21B - 12 Inch Depth, connected to proposed edgedrain beneath outside edge of paved shoulder or beneath curb and gutter
- (F3) Asphalt Concrete Base Course, Type BM-25.0A, Variable Depth For Build-Up Situations, Min. 2.5 Inch Depth. (See detail sheet 2B(14))
- (F4) Asphalt Concrete Base Course, Type BM25.0D*0.4 High Modulus, Variable Depth For Build-Up Situations, Min. 2.5 Inch Depth (See detail sheet 2B(14)).
- (G) Aggr. Base Mat'l., Type 1, Size No. 21A or 21B - 4 Inch Depth

N.T.S.	VDOT PROJECT NO. 0495-029-419	SHEET NO. 2B(13) AREA 4
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APPROVED FOR CONSTRUCTION

NOVA DISTRICT

10/26/2022

PROJECT MANAGER VDOT - Rupal Shah, P.E. (703) 259-2362
 SURVEYED BY, DATE RDA - Nicholas Kaugaulis, LS (703) 334-0837, 12/2021
 DESIGN BY RDA - Darrell Fischer, P.E. (703) 334-0823
 Dewberry - Ron Jakomilich, P.E. (703) 849-0651
 SUBSURFACE UTILITY BY, DATE Accurmark - Michael Taylor, LS (703) 635-3060, 12/2021

Typical Section Details

DARELL L. FISCHER
Lic. No. 023296

Rinker Design Assoc., P.C.
Manassas, Virginia
(ROADWAY ENGINEER)

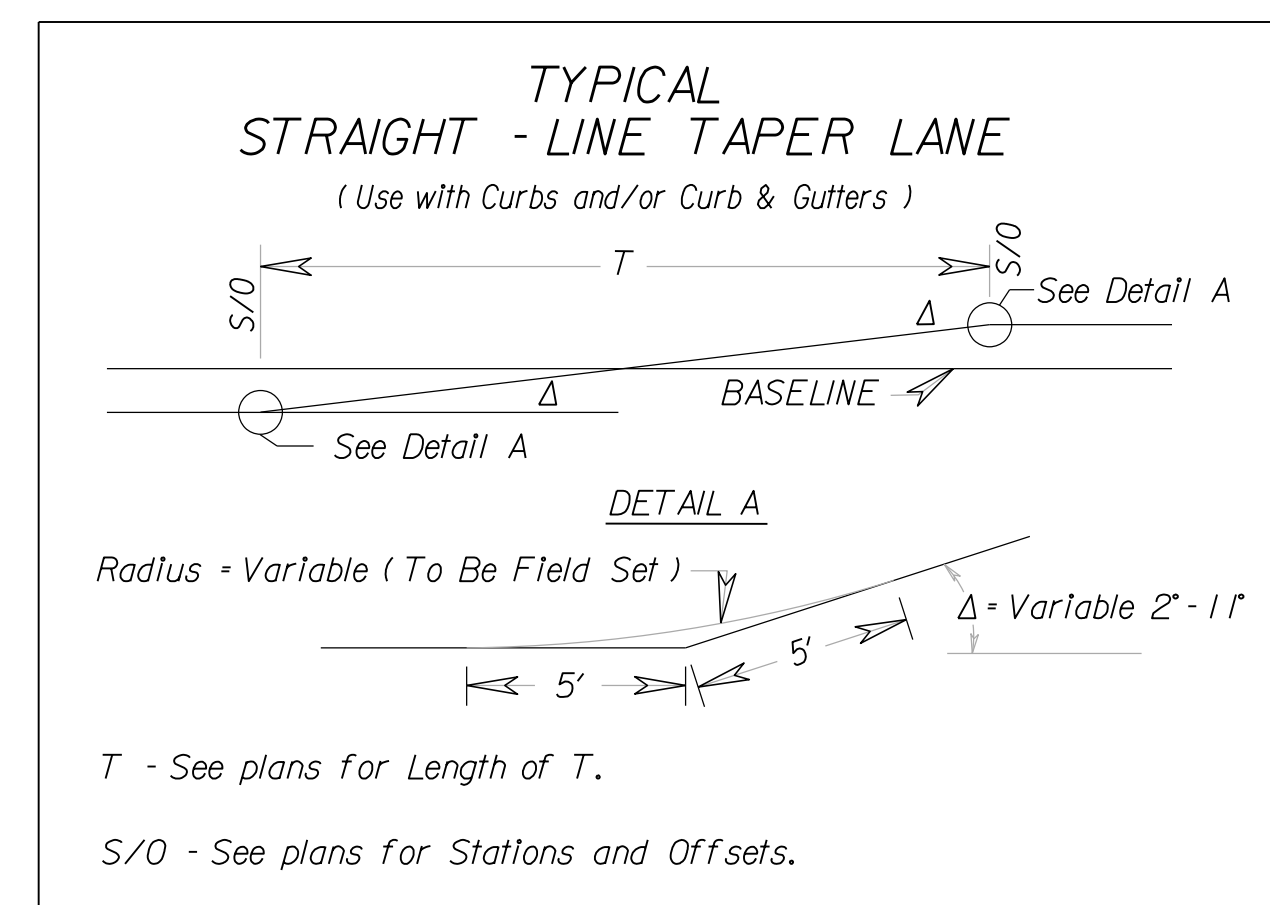
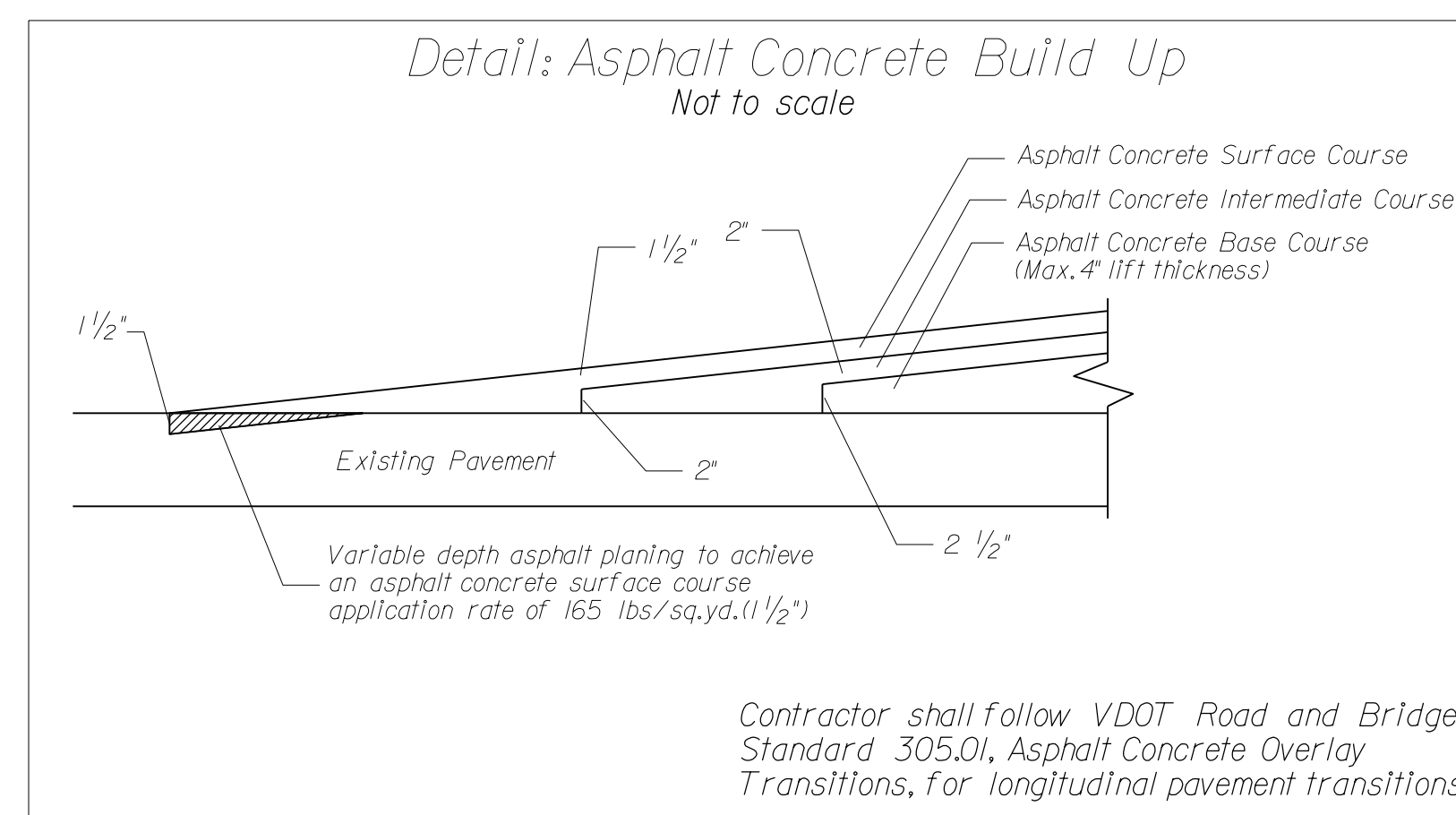
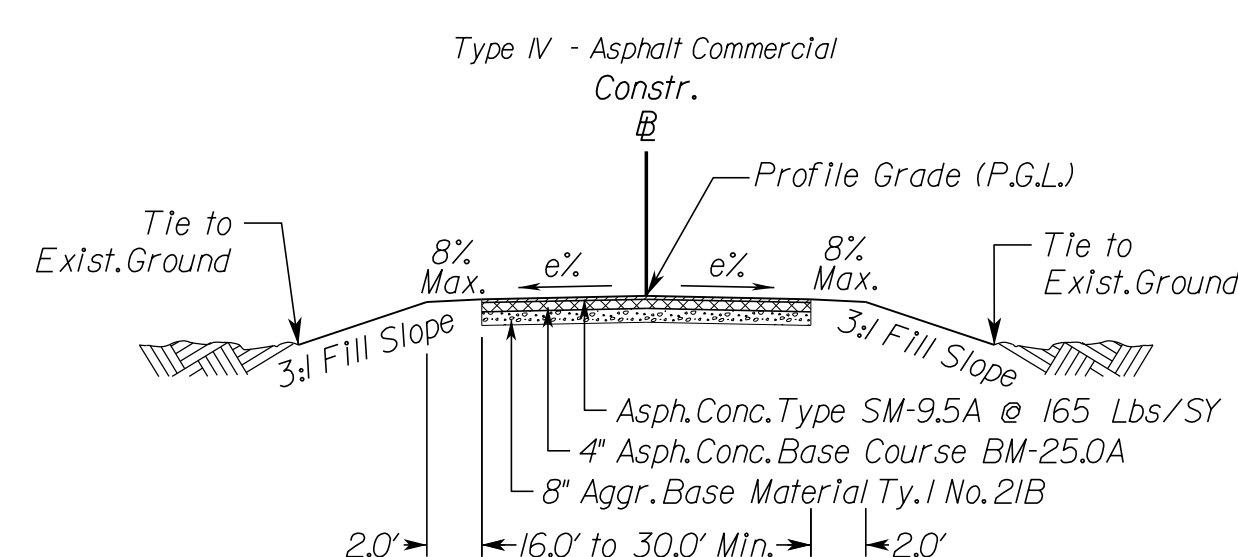
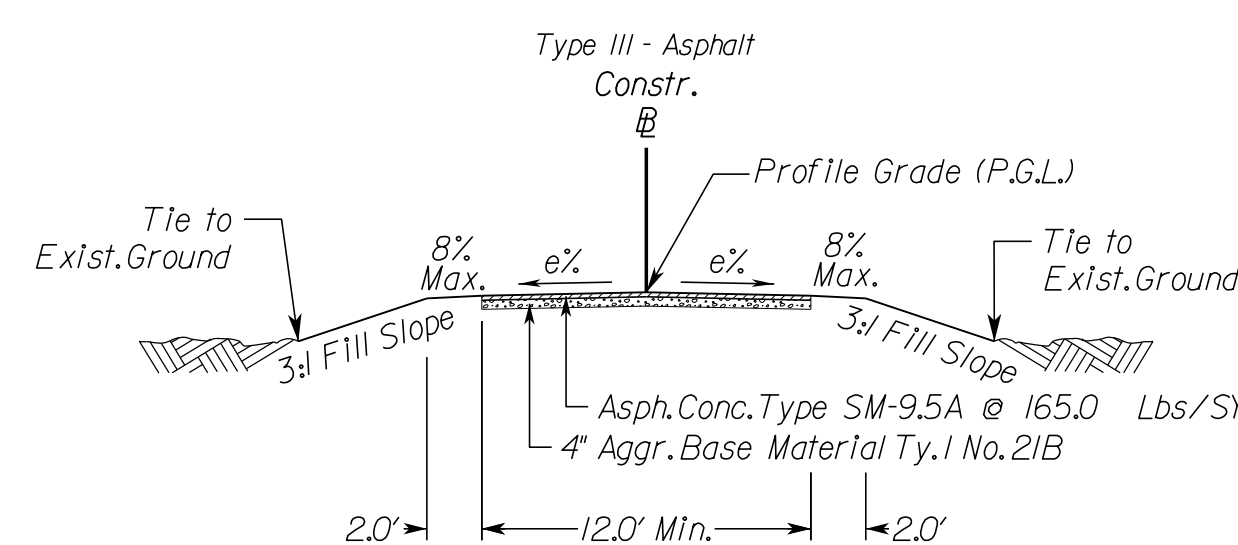
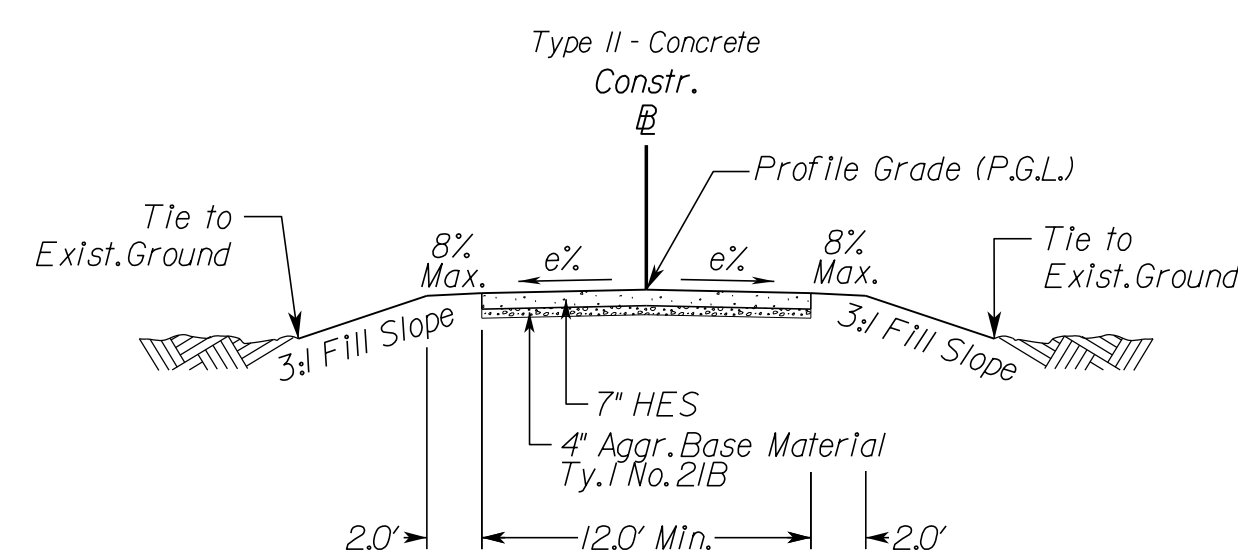
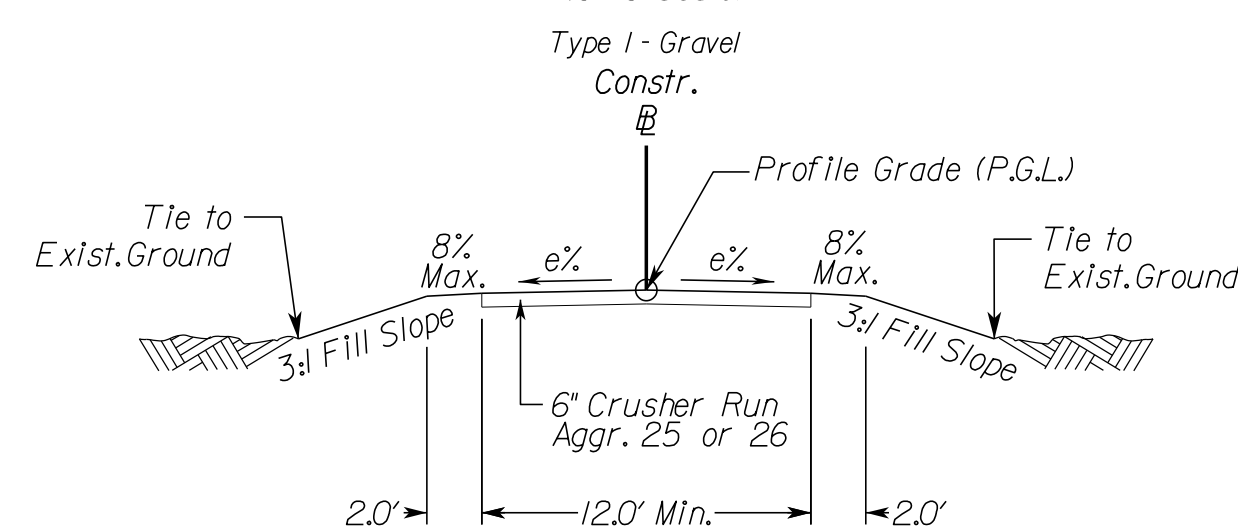
REVISED	STATE	ROUTE	STATE	VDOT PROJECT NO.	SHEET NO.
	VA.	495		0495-029-419 C501 RW201	2B(14) AREA 4

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

Private & Commercial Entrances

VDOT STs. PE-I, CG-9D, CG-II, & CG-13

(Not to Scale)



NOTE:
 The type of entrance (I, II, III, IV) to be constructed will be determined by the existing condition at the time of construction. See VDOT Standards for private and commercial entrance details and additional information.

NOVA DISTRICT

12/15/2022

N.T.S.	VDOT PROJECT NO. 0495-029-419	SHEET NO. 2B(14) AREA 4
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APPROVED FOR CONSTRUCTION

PROJECT MANAGER_VDOT - Rupal Shah, PE, (703) 259-2362
SURVEYED BY, DATE_RDA - Nicholas Kougaull's, LS, (703) 334-0837, 12/2021
DESIGN BY_RDA - Darrell Fischer, PE, (703) 334-0823
SUBSURFACE UTILITY BY, DATE_Accumark - Michael Taylor, LS, (703) 635-3060, 12/2021

Median Barrier Summary

REVISED	STATE	ROUTE	STATE	VDOT PROJECT NO.	SHEET NO.
	VA.	495		0495-029-419 C501 RW201	2B(16) AREA 4

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.	S'd.MB-7D		S'd.MB-7E		Mod.MB-7E		S'd.MB-7F		BPB-4 with Moment Slab		S'd.MB-8A TY I		S'd.MB-8A TY II		S'd.MB-8A TY III		Mod.MB-8A		S'd.BPPS-1A		S'd.BPPS-3A		Tail Wall		S'd.MB-12C		Notes					
	Sta	Sta	Sta	Sta	Sta	Sta	Sta	Sta	Sta	Sta	Sta	Sta	Sta	Sta	Sta	Sta	Sta	Sta	Sta	Sta	Sta	Sta	Sta	Sta	Sta							
495SB LT/Ramp G21 RT	15	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-				
		-	-	277+46	278+40	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
		-	-	-	-	-	-	-	-	-	-	-	278+40	280+53	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
		-	-	280+53	285+00	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
495SB LT/Ramp G22 LT	17	-	-	285+00	287+11	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-				
		-	-	295+81	296+34	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
		-	-	297+75	302+21	-	-	-	-	-	-	-	297+39	297+75	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Ramp E21 RT/Ramp E22 LT	15	-	-	6+07	9+13	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
		-	-	9+70	11+91	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		-	-	12+23	12+60	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	11+91	12+23	-	-	-	-	
		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Ramp G21 RT/Ramp E21 LT	17	-	-	20+49	21+50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
		-	-	21+50	30+38	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
495NB LT/495SB RT	17	-	-	30+38	32+48	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
		-	-	-	-	47+89	50+46	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Ramp G21 RT/Ramp E21 LT	17	-	-	50+46	51+67	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
		-	-	698+00	701+23	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	

NOVA DISTRICT

10/26/2022

N.T.S.	VDOT PROJECT NO. 0495-029-419	SHEET NO. 2B(16) AREA 4
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APPROVED FOR CONSTRUCTION

PROJECT MANAGER_VDOT - Firapal Shah, PE, (703) 259-2362
SURVEYED BY, DATE_RDA - Nicholas Kougaull, LS, (703) 334-0837, 12/2021
DESIGN BY_RDA - Darrell Fischer, PE, (703) 334-0823
Dewberry - Ron Jakomajlich, PE, (703) 849-0651
SUBSURFACE UTILITY BY, DATE_Accumark - Michael Taylor, LS, (703) 635-3060, 12/2021

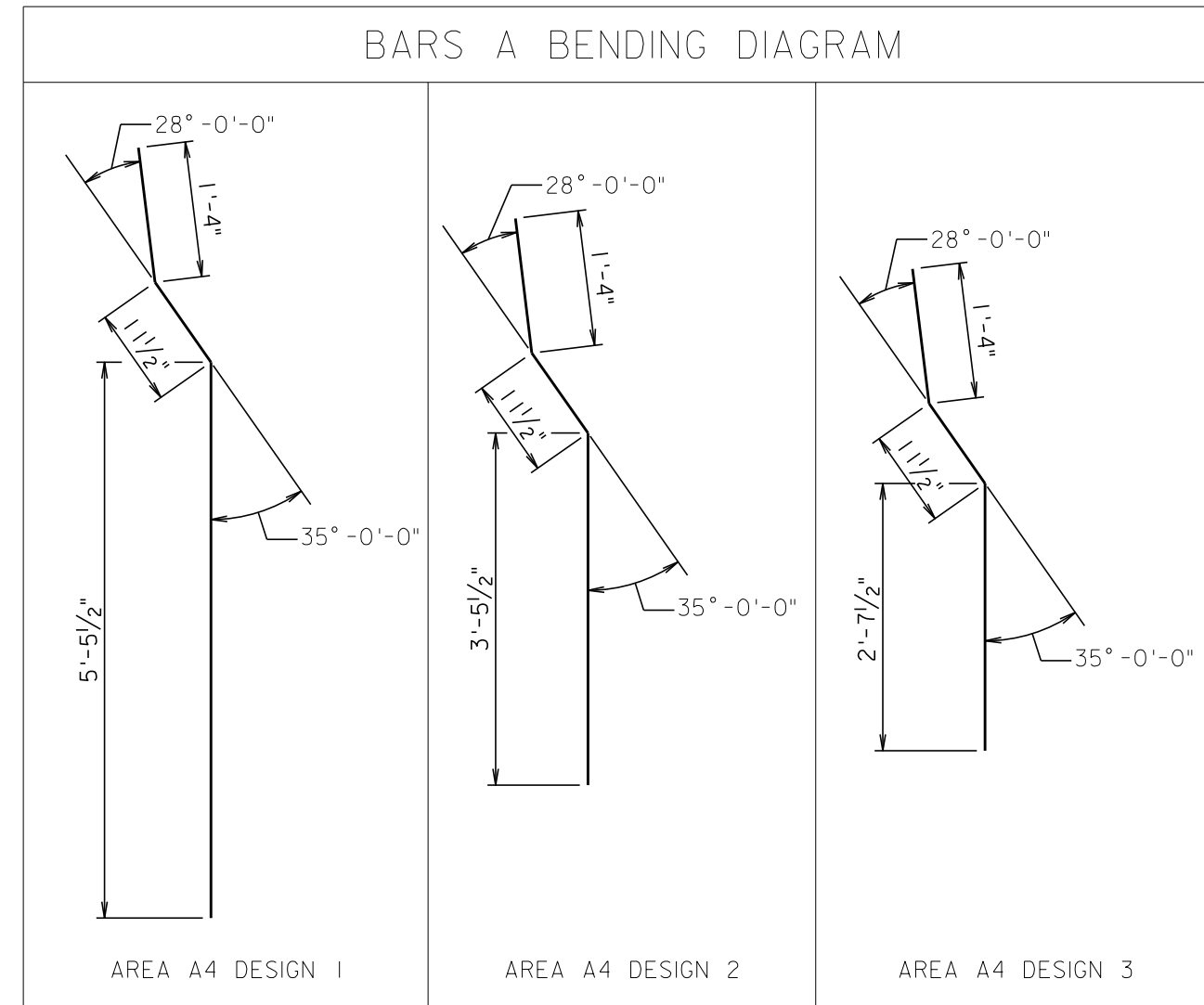
Modified Median Barrier Details

CHRISTOPHER C. ADAMS
Lic. No. 033017
COMMONWEALTH OF VIRGINIA
PROFESSIONAL ENGINEER

Rinker Design Assoc., P.C.
Manassas, Virginia
(STRUCTURAL ENGINEER)

REVISED	STATE	ROUTE	STATE	VDOT PROJECT NO.	SHEET NO.
	VA.	495		0495-029-419 C501 RW201	2B(17) AREA 4

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



REINFORCING STEEL SCHEDULE					
	BARS "A"	BARS "A-1"	BARS "B"	DOWELS	
A4-Design 1	495 NB Sta. 684+54 to 685+09 LT	20 7'-9"	20 7'-7"	23 19'-8"	40 1'-0"
A4-Design 2	Ramp E21 Sta. 12+81 to 13+06 RT	20 5'-9"	20 5'-7"	11 19'-8"	40 1'-0"
A4-Design 3	Ramp E21 Sta. 12+55 to 12+57 LT	20 4'-11"	20 4'-9"	9 19'-8"	40 1'-0"

NOTES:

Concrete shall be Class A3.

For additional barrier information, see 2016 VDOT Road and Bridge Standard for MB-8A details.

See roadway plans for additional information about the barrier limits.

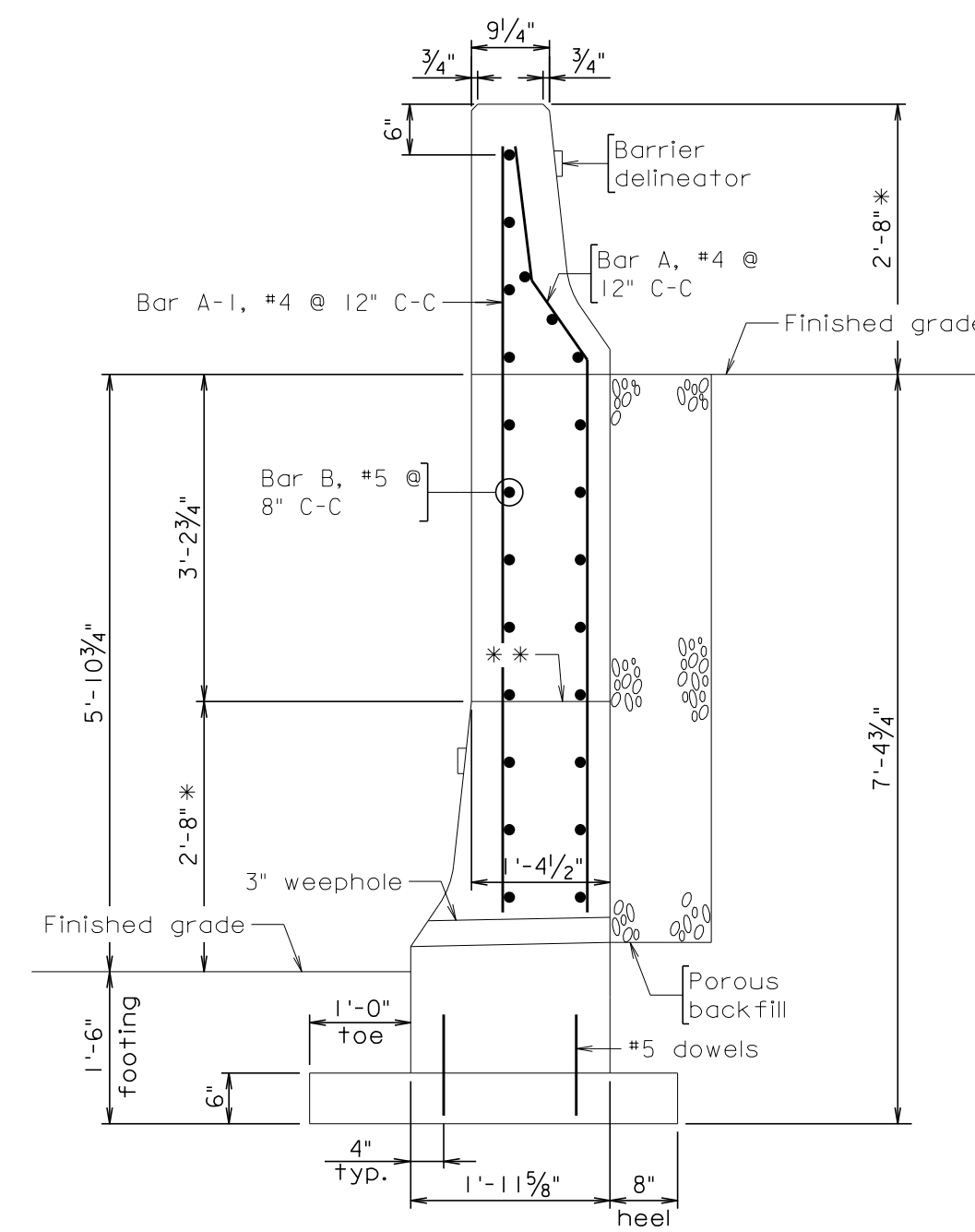
All reinforcing steel shall be deformed and shall conform to ASTM A615 Grade 60. All reinforcing bar dimensions on the detail drawings are to centers of bars except where otherwise noted and are subject to fabrication and construction tolerances. A minimum 2" concrete cover shall be provided.

Reinforcing steel bars shown are based on a 20' panel length.

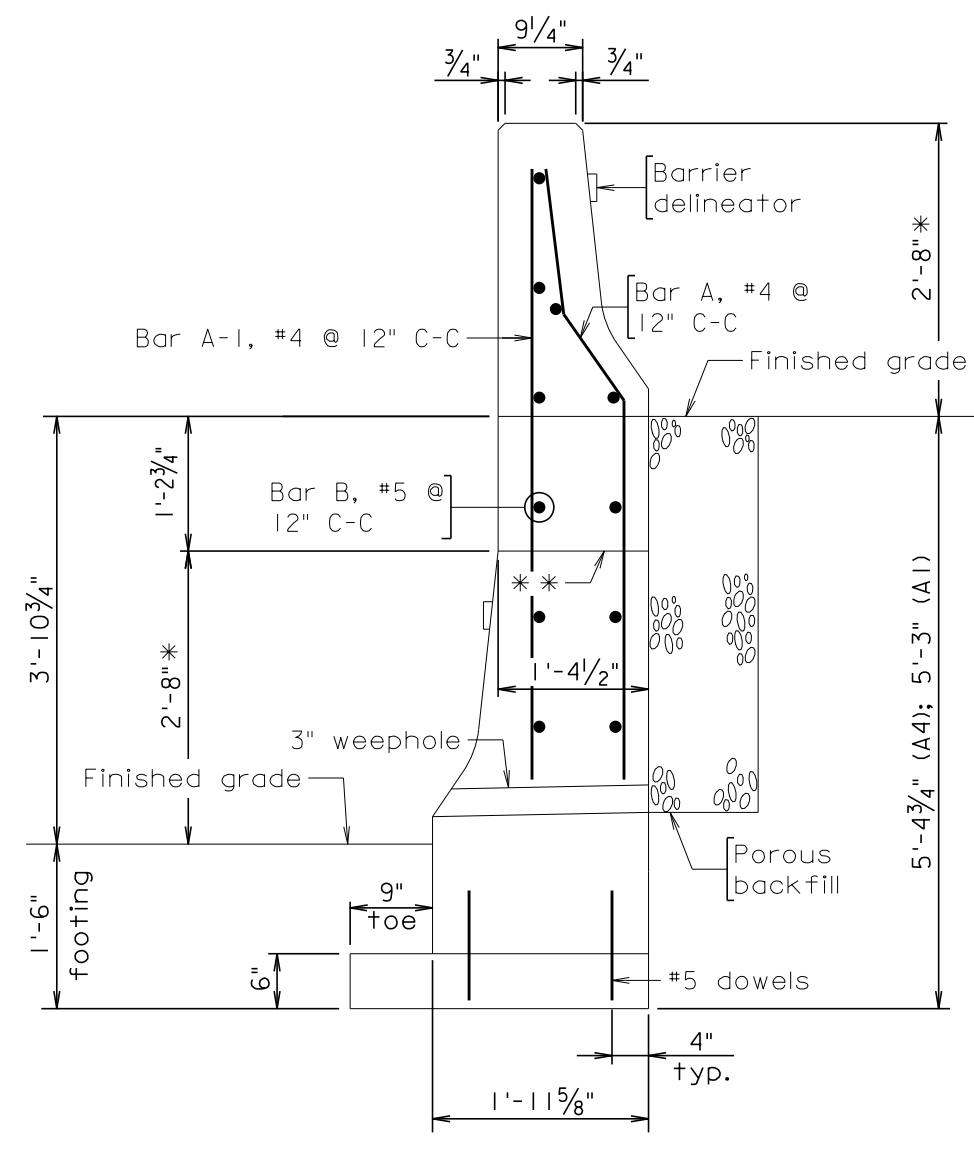
Horizontal reinforcing bars are to be separated at all expansion and contraction joints. A 2" concrete cover is required over the ends of the reinforcing steel.

* MB-7D barrier face

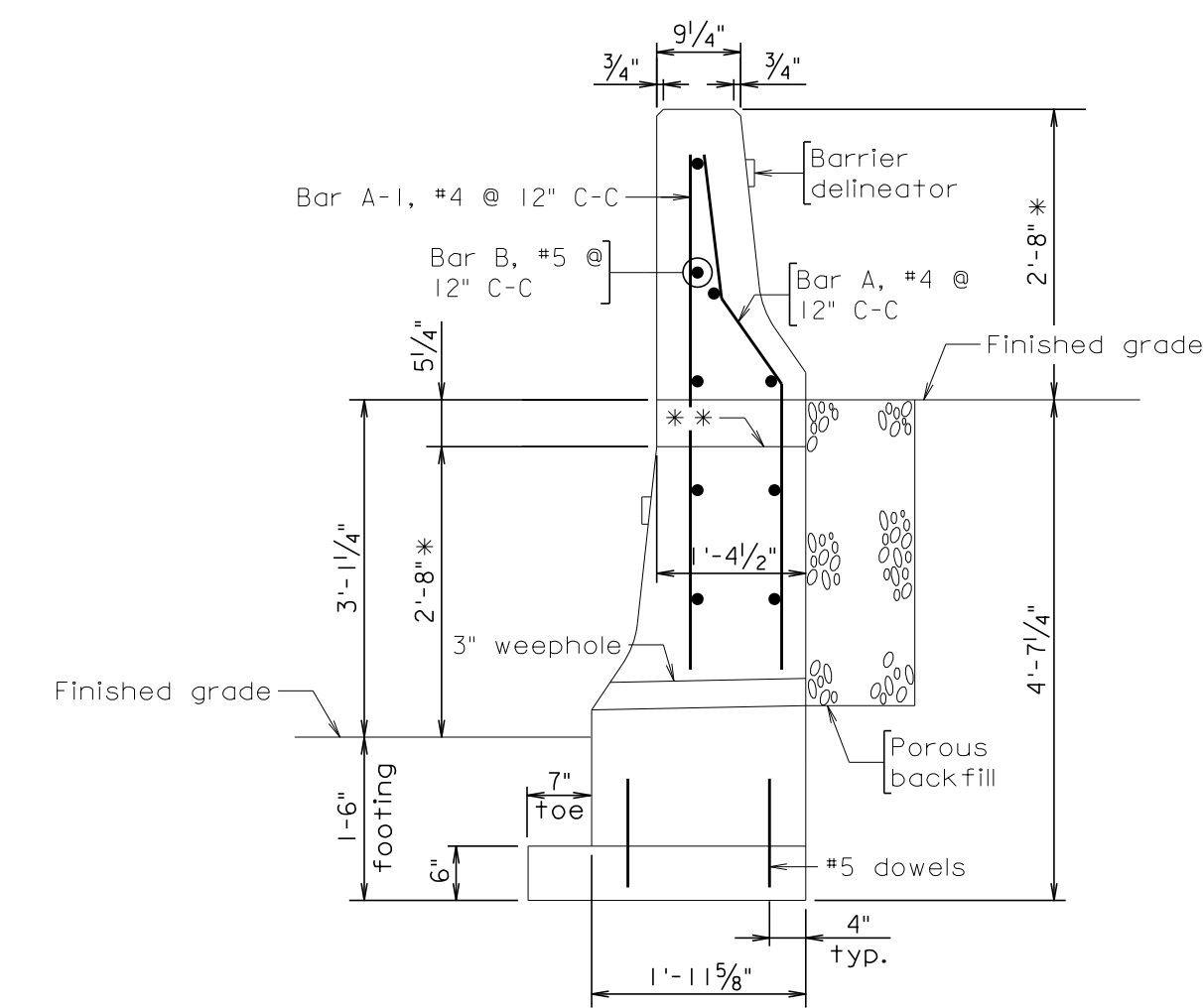
** Permissible construction joint to be bonded in strict accordance with Section 404 of the current VDOT Road and Bridge Specs.



AREA A4 MODIFIED MB-8A BARRIER DESIGN 1



AREA A4 Design 2 MODIFIED MB-8A BARRIER



AREA A4 MODIFIED MB-8A BARRIER DESIGN 3

NOVA DISTRICT

10/26/2022

3" - 1'-0"	VDOT PROJECT NO. 0495-029-419	SHEET NO. 2B(17) AREA 4
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APPROVED FOR CONSTRUCTION

PROJECT MANAGER_VDOT - Riprap, Sub, PE, (703) 259-2362
SURVEYED BY, DATE_RDA - Nicholas Kaugaulis, LS, (703) 334-0837, 12/2021
DESIGN BY_RDA - Darrell Fischer, PE, (703) 334-0823
Dewberry - Ron Jakomilich, PE, (703) 849-0651
SUBSURFACE UTILITY BY, DATE_Accumark - Michael Taylor, LS, (703) 635-3060, 12/2021

Geotechnical Recommendations

REVISED	STATE	ROUTE	STATE	VDOT PROJECT NO.	SHEET NO.
	VA.	495		0495-029-419 C501 RW201	2C AREA 4

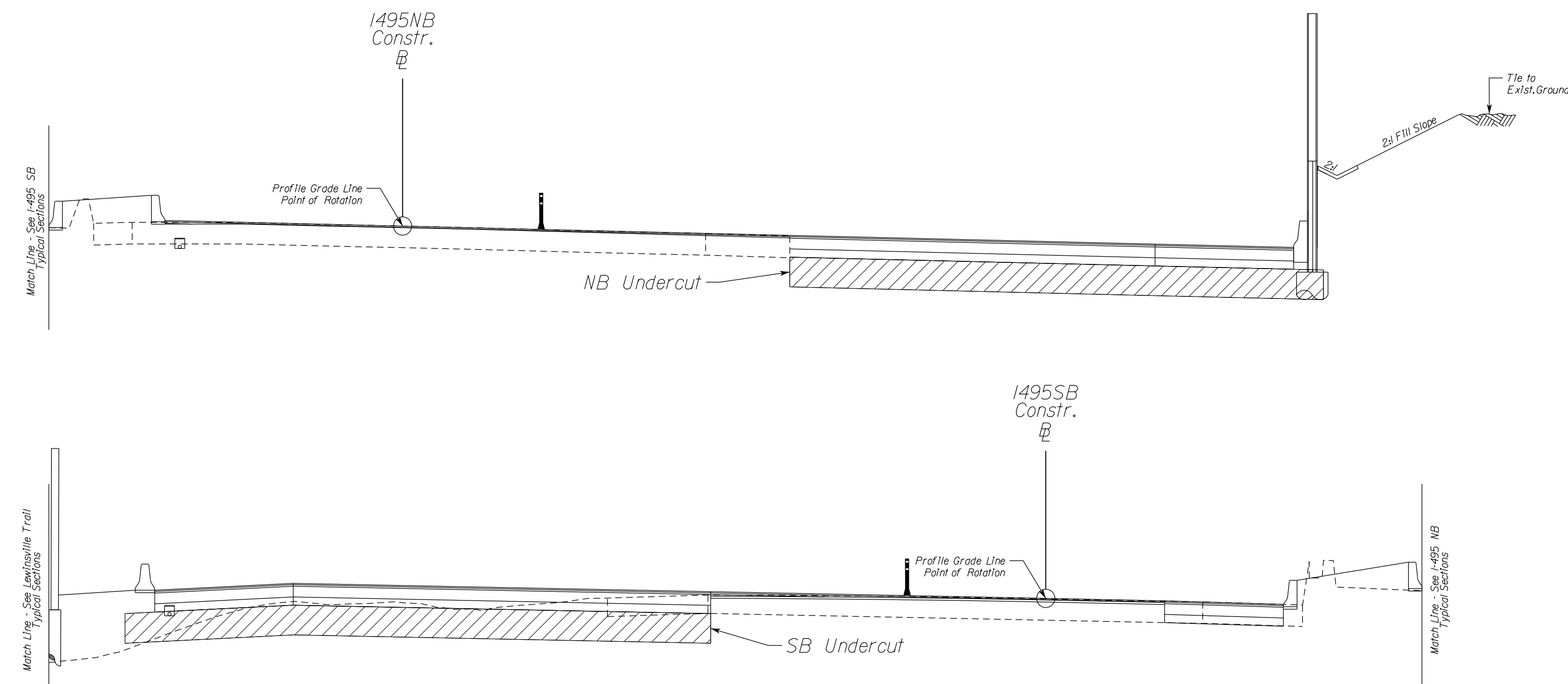
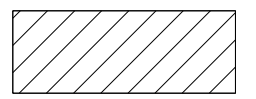
DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT

Summary of Unsuitable Material at Subgrade

Roadway Stations	Widening Locations	Depth	Reason	Treatment Method
I-495				
Sta. 618+04 to 618+20	NB	3'	Low CBR	D1, D2, D3
Sta. 621+63 to 622+13	NB	3'	Low CBR	D1, D2, D3
Sta. 630+50 to 635+50	NB	3'	Low CBR	D1, D2, D3
Sta. 638+50 to 640+63	NB	3'	Low CBR	D1, D2, D3
Sta. 640+63 to 643+13	NB	1.5'	Low CBR	D1, D2, D3
Sta. 643+13 to 645+25	NB	3'	Low CBR	D1, D2, D3
Sta. 655+00 to 661+25	NB	3'	Low CBR	D1, D2, D3
Sta. 672+13 to 676+75	NB	3'	Low CBR	D1, D2, D3
Sta. 688+25 to 689+50	NB	3'	Low CBR	D1, D2, D3
Sta. 690+63 to 694+00	NB	3'	Low CBR	D1, D2, D3
Sta. 192+50 to 197+63	SB	3'	Low CBR	D1, D2, D3
Sta. 226+13 to 231+25	SB	3'	Low CBR	D1, D2, D3
Sta. 256+38 to 263+00	SB	3'	Low CBR	D1, D2, D3

UNSUITABLE MATERIALS LEGEND

Unsuitable soils to be removed to the depth indicated and replaced as recommended.



NOVA DISTRICT

Treatment Method

- A) Boring Stations and Elevations provided by RDA and from the GDR prepared by HDR. Station ranges have been approximated between borings.
- B) Profile Grade and Final Subgrade elevations interpreted from the ~60% plans prepared by RDA.
- C) Depth of soils evaluated.
 - 1) Cut locations - Upper 3 feet of planned top of roadway subgrade
 - 2) Fill locations - Maintain minimum 3 foot separation between subgrade and unsuitable soils
- D) Remediation Alternatives (Technical Requirements Part 2 Section 3.4.5):
 - 1) Complete removal to 2 feet beyond the outside edge of shoulder and replaced with structural fill, minimum CBR 5.
 - 2) Removal to specified depth and replaced with select fill, type I, minimum CBR 30 and geosynthetic material.
 - 3) Chemical stabilization of the soils to a minimum depth of 12 inches below final pavement subgrade.
- E) Saturated or very dry and/or loose or very soft coarse- and fine-grained soils that exhibit excessive pumping, weaving or rutting under the weight of construction equipment are also considered unsuitable, unless they can be moisture conditioned through either mechanical or chemical means to an acceptable moisture content that allows adequate compaction to meet project specifications, and classification testing indicates they are not otherwise unsuitable. (Technical Requirements Part 2 Section 3.4.5)

N.T.S.	VDOT PROJECT NO. 0495-029-419	SHEET NO. 2C AREA 4
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APPROVED FOR CONSTRUCTION

PROJECT MANAGER VDOT - Rupal Shah, P.E. (703) 259-2362
 SURVEYED BY, DATE RDA - Nicholas Kaugaulis, LS (703) 334-0837, 12/2021
 DESIGN BY RDA - Darrell Fischer, P.E. (703) 334-0823
 Dewberry - Ron Jakomilich, P.E. (703) 849-0651
 SUBSURFACE UTILITY BY, DATE Accurark - Michael Taylor, LS (703) 635-3060, 12/2021

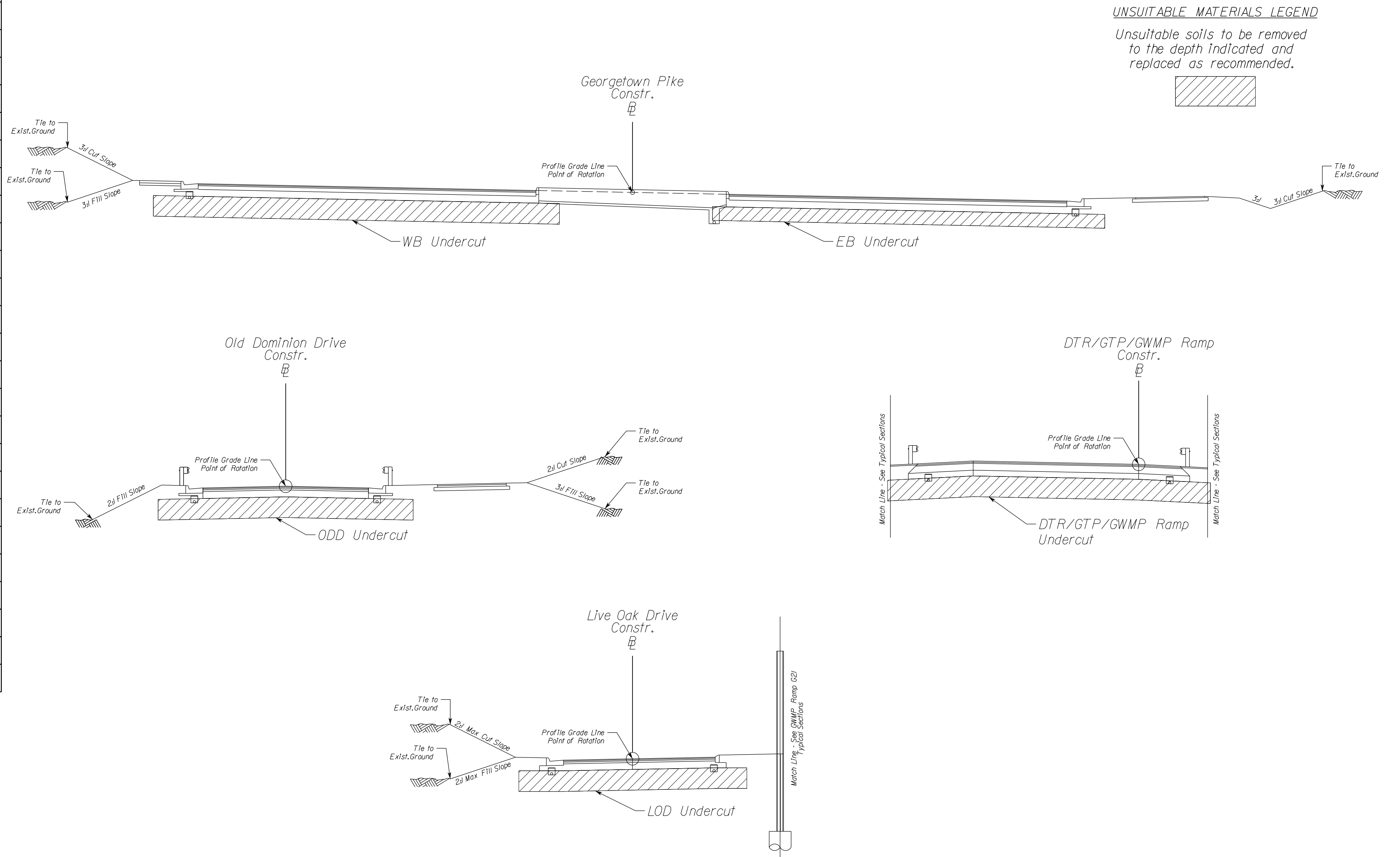
Geotechnical Recommendations

REVISED	STATE	ROUTE	STATE	VDOT PROJECT NO.	SHEET NO.
	VA.	495		0495-029-419 C501 RW201	2C(1) AREA 4

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

Summary of Unsuitable Material at Subgrade

Roadway Stations	Widening Locations	Depth	Reason	Treatment Method
DTR Ramp E1				
Sta. 23+75 to 29+00	-	3'	Low CBR	DI, D2, D3
Georgetown Pike				
Sta. 19+68 to 20+98	-	3'	CH/MH Within 3' of Subgrade	DI, D2, D3
Sta. 26+06 to 26+15	-	3'	CH/MH Within 3' of Subgrade	DI, D2, D3
Sta. 30+60 to 31+33	-	3'	CH/MH Within 3' of Subgrade	DI, D2, D3
GTP Ramp NE				
Sta. 19+00 to 20+00	-	3'	CH/MH Within 3' of Subgrade	DI, D2, D3
GTP Ramp SE				
Sta. 11+95 to 17+50	-	3'	Low CBR	DI, D2, D3
GTP Ramp SW				
Sta. 14+45 to 16+55	-	3'	Low CBR	DI, D2, D3
Sta. 16+55 to 17+33	-	2.5'	Low CBR	DI, D2, D3
Sta. 17+95 to 18+68	-	3'	Low CBR	DI, D2, D3
GWMP Ramp G21				
Sta. 33+33 to 34+15	-	3'	CH/MH Within 3' of Subgrade	DI, D2, D3
GWMP Ramp E21				
Sta. 28+05 to 30+70	-	3'	Low CBR	DI, D2, D3
GWMP Ramp G22				
Sta. 24+95 to 26+20	-	2'	Low CBR	DI, D2, D3
Sta. 26+20 to 28+75	-	3'	Low CBR	DI, D2, D3
GWMP Ramp E22				
Sta. 25+78 to 27+13	-	2'	Low CBR	DI, D2, D3
Sta. 27+13 to 29+50	-	3'	Low CBR	DI, D2, D3
Old Dominion Drive				
Sta. 15+38 to 17+40	-	3'	Low CBR	DI, D2, D3



Treatment Method

- A) Borings Stations and Elevations provided by RDA and from the GDR prepared by HDR. Station ranges have been approximated between borings.
- B) Profile Grade and Final Subgrade elevations interpreted from the ~60% plans prepared by RDA
- C) Depth of soils evaluated:
 - 1) Cut locations - upper 3 feet of planned top of roadway subgrade
 - 2) Fill locations - Maintain minimum 3 foot separation between subgrade and unsuitable soils
- D) Remediation Alternatives (Technical Requirements Part 2 Section 3.4.5):
 - 1) Complete removal to 2 feet beyond the outside edge of shoulder and replaced with structural fill, minimum CBR 5.
 - 2) Removal to specified depth and replaced with select fill, type I, minimum CBR 30 and geosynthetic material.
 - 3) Chemical stabilization of the soils to a minimum depth of 12 inches below final pavement subgrade.
- E) Saturated or very dry and/or loose or very soft coarse- and fine-grained soils that exhibit excessive pumping, weaving or rutting under the weight of construction equipment are also considered unsuitable, unless they can be moisture conditioned through either mechanical or chemical means to an acceptable moisture content that allows adequate compaction to meet project specifications, and classification testing indicates they are not otherwise unsuitable. (Technical Requirements Part 2 Section 3.4.5)
- F) Station ranges +/- 300 feet from a low CBR location (CBR<5.0) are presented as unsuitable. However, the materials are not classified as CH/MH in all cases have a resilient modulus value of 4,300 psi or greater, which is the minimum value used in the M-E pavement designs.

N.T.S.	VDOT PROJECT NO. 0495-029-419	SHEET NO. 2C(1) AREA 4
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APPROVED FOR CONSTRUCTION

NOVA DISTRICT

10/28/2022

PROJECT MANAGER VDOT - *Ritpal Shah, PE, (703) 259-2362*
SURVEYED BY, DATE *RDA - Nicholas Kougaull's LS (703) 334-0837, 12/2021*
DESIGN BY *RDA - Darrell Fischer PE, (703) 334-0823*
Dewberry - Ron Jakomlitch, PE, (703) 849-0651
SUBSURFACE UTILITY BY, DATE *Accurmark - Michael Taylor LS, (703) 635-3060, 12/2021*

Geotechnical Recommendations

REVISED	STATE	ROUTE	STATE VDOT PROJECT NO.	SHEET NO.
	VA.	495	0495-029-419 C501 RW201	2C(2) AREA 4

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

Global Stability Summary

Area	Section Evaluated	Vertical Slope Height (ft)	Circular Surfaces			Non-Circular Surfaces			Remarks	
			Minimum FOS		Prob. of Failure, PF	Minimum FOS		Prob. of Failure, PF		
			Bishop	Spencer		Morgenstern	Spencer			
1	Ramp E1 - 34+50	38.5	1.58	1.58	0.50%	1.58	1.58	0.50%	Install 4 layers of 40-foot-long horizontal geogrid from DTR Ramp E1 STA 34+00 to 36+50 as slope reinforcement within the new fill being placed to raise the existing grade and form Ramp E1. The geogrid should be placed at the midpoint of the height of the proposed 2.0H:1V fill slopes. The first layer of geogrid should be placed 4.5 feet vertically below the midpoint. The second layer should be placed 1.5 feet vertically below the midpoint. The third layer should follow 1.5 feet vertically above the midpoint. The fourth layer of geogrid should be placed 4.5 feet vertically above the midpoint. The geogrid should have a minimum allowable tensile strength of 2,100 lb/ft in the direction perpendicular to the roadway alignment.	
	Ramp E3 - 25+50	59.7	1.55	1.55	0.00%	1.55	1.55	0.00%	Install 6 layers of 60-foot-long horizontal geogrid from DTR Ramp E3 STA 15+00 to 26+00 as slope reinforcement within the new fill being placed to raise the existing grade and form Ramp E3. The geogrid should be placed at the midpoint of the height of the proposed 2.0H:1V fill slopes. The first layer of geogrid should be placed 10 feet vertically below the midpoint. The second layer should be placed 6 feet vertically below the midpoint. The third layer should follow 2 feet vertically below the midpoint. The fourth layer of geogrid should be placed 2 feet vertically above the midpoint. The fifth layer of geogrid should be placed 6 feet vertically above the midpoint. The sixth layer of geogrid should be placed 10 feet vertically above the midpoint. The geogrid should have a minimum allowable tensile strength of 2,100 lb/ft in the direction perpendicular to the roadway alignment.	
	Ramp E3 - 22+00	37.5	1.87	1.87	0.50%	1.87	1.87	0.50%	Install 6 layers of 60-foot-long horizontal geogrid from DTR Ramp E3 STA 15+00 to 26+00 as slope reinforcement within the new fill being placed to raise the existing grade and form Ramp E3. The geogrid should be placed at the midpoint of the height of the proposed 2.0H:1V fill slopes. The first layer of geogrid should be placed 10 feet vertically below the midpoint. The second layer should be placed 6 feet vertically below the midpoint. The third layer should follow 2 feet vertically below the midpoint. The fourth layer of geogrid should be placed 2 feet vertically above the midpoint. The fifth layer of geogrid should be placed 6 feet vertically above the midpoint. The sixth layer of geogrid should be placed 10 feet vertically above the midpoint. The geogrid should have a minimum allowable tensile strength of 2,100 lb/ft in the direction perpendicular to the roadway alignment.	
	Ramp G3 - 43+50	22.1	1.53	1.53	0.00%	1.53	1.53	0.00%	No Geogrid required	
2	495NB - 58+50	15.7	1.57	1.56	0.00%	1.56	1.56	0.00%	No Geogrid required	
	LewTrl - 16+00	23.0	1.55	1.55	0.00%	1.55	1.55	0.00%	No Geogrid required	
	LewTrl - 21+50	16.3	1.67	1.66	0.00%	1.67	1.66	0.00%	No Geogrid required	
	LewTrl - 27+50	11.9	1.77	1.76	0.00%	1.77	1.77	0.00%	No Geogrid required	
		24.2	1.55	1.55	0.00%	1.55	1.55	0.00%	No Geogrid required	
	LewTrl - 31+00	19.7	1.54	1.54	0.00%	1.54	1.54	0.00%	No Geogrid required	
		13.3	1.76	1.76	0.00%	1.78	1.77	0.00%	No Geogrid required	
	LewTrl - 46+50	11.9	1.72	1.71	0.00%	1.72	1.72	0.00%	No Geogrid required	
	2	ODD - 20+00	36.3	1.63	1.63	0.50%	1.64	1.64	0.00%	Install 3 layers of 35-foot-long horizontal geogrid from Old Dominion Drive STA 17+00 to 20+00 as slope reinforcement within the new fill being placed to raise the existing grade and form the new roadway for Old Dominion Drive. The geogrid should be placed at the midpoint of the height of the proposed 2.0H:1V fill slopes. The first layer of geogrid should be placed 4 feet vertically below the midpoint. The second layer should be placed at the midpoint. The third layer should follow 4 feet vertically above the midpoint. The geogrid should have a minimum allowable tensile strength of 1,800 lb/ft in the direction perpendicular to the roadway alignment.
		ODD - 25+50	24.3	1.72	1.71	0.50%	1.72	1.72	0.50%	Install 3 layers of 35-foot-long horizontal geogrid from Old Dominion Drive STA 25+50 to 27+50 as slope reinforcement within the new fill being placed to raise the existing grade and form the new roadway for Old Dominion Drive. The geogrid should be placed at the midpoint of the height of the proposed 2.0H:1V fill slopes. The first layer of geogrid should be placed 2 feet vertically below the midpoint. The second layer should be placed at the midpoint. The third layer should follow 2 feet vertically above the midpoint. The geogrid should have a minimum allowable tensile strength of 1,800 lb/ft in the direction perpendicular to the roadway alignment.
3	495NB - 635+00	15.4	1.64	1.64	0.00%	1.64	1.64	0.00%	No Geogrid required	
	LewTrl - 57+50	31.7	1.50	1.50	0.00%	1.50	1.50	0.00%	Install 2 layers of 45-foot-long horizontal geogrid from Lewinsville Trail STA 56+00 to 58+50 as slope reinforcement within the new fill being placed to raise the existing grade. The first layer of geogrid should be placed 4.5 feet above the toe of the embankment slope elevation. Geogrid layers should be spaced 2 feet vertically. The geogrid should have a minimum allowable tensile strength of 2,100 lb/ft in the direction perpendicular to the roadway alignment.	
	GTP Ramp NE - 11+50	17.4	1.59	1.58	0.00%	1.59	1.58	0.00%	No Geogrid required	
4	Ramp G21 - 2+50	24.8	1.57	1.56	1.00%	1.57	1.57	1.00%	Slope to be regraded to a 2.1H:1V slope along 495 SB STA 251+50 to 254+50.	
	BHTrl_36+50	16.9	1.67	1.67	0.50%	1.67	1.67	0.50%	No Geogrid required	
	Ramp G21 - 53+50	26.5	1.55	1.55	0.50%	1.55	1.55	0.00%	Slope to be regraded to a 2.1H:1V slope along Ramp G21 STA 52+50 to 54+50.	
	Ramp G22 - 21+50	49.7	1.59	1.59	0.50%	1.59	1.59	0.50%	Install 2 layers of 25-foot-long horizontal geogrid from Ramp G22 STA 20+25 to 21+75 as slope reinforcement within the new fill cap being placed to raise the existing ramp grade and form Ramp G22. The first layer of geogrid should be placed just above the existing ground surface, in the lower portion of the new fill cap. Geogrid layers should be spaced 2 feet vertically. The geogrid should have a minimum allowable tensile strength of 1,800 lb/ft in the direction perpendicular to the roadway alignment.	
	Ramp G22 - 23+00	43.1	1.57	1.56	0.50%	1.58	1.58	0.50%	Install 3 layers of 35-foot-long horizontal geogrid from Ramp G22 STA 21+75 to 26+51.84 as slope reinforcement within the new fill slope being placed to raise the existing ramp grade and form Ramp G22. The geogrid should be placed at the midpoint of the height of the proposed 2.0H:1V fill slopes above BMP-14. (This refers to the proposed 2.0H:1V fill slopes with vertical heights of about 25 to 35 feet above the BMP-14 bench line within this station range.) The first layer of geogrid should be placed 2 feet vertically below the midpoint. The second layer should be placed at the midpoint. The third layer should follow 2 feet vertically above the midpoint. The geogrid should have a minimum allowable tensile strength of 1,800 lb/ft in the direction perpendicular to the roadway alignment.	
Ramp G22 - 25+50	34.8	1.54	1.54	0.50%	1.54	1.54	0.50%	Install 3 layers of 35-foot-long horizontal geogrid from Ramp G22 STA 21+75 to 26+51.84 as slope reinforcement within the new fill slope being placed to raise the existing ramp grade and form Ramp G22. The geogrid should be placed at the midpoint of the height of the proposed 2.0H:1V fill slopes above BMP-14. (This refers to the proposed 2.0H:1V fill slopes with vertical heights of about 25 to 35 feet above the BMP-14 bench line within this station range.) The first layer of geogrid should be placed 2 feet vertically below the midpoint. The second layer should be placed at the midpoint. The third layer should follow 2 feet vertically above the midpoint. The geogrid should have a minimum allowable tensile strength of 1,800 lb/ft in the direction perpendicular to the roadway alignment.		
Ramp G23 - 12+50	11.3	2.01	2.00	0.00%	2.02	2.01	0.00%	No Geogrid required		

Pending Slope optimization and potential for revised GER and plan set revisions

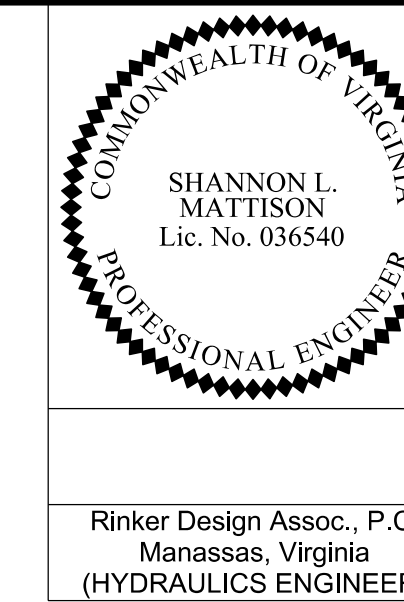
NOVA DISTRICT

10/28/2022

APPROVED FOR CONSTRUCTION

PROJECT MANAGER VDOT - Rupal Shah, P.E. (703) 259-2362
 SURVEYED BY, DATE RDA - Nicholas Kougaull, LS (703) 334-0837, 12/2021
 DESIGN BY RDA - Darrell Fischer, P.E. (703) 334-0823
 SUBSURFACE UTILITY BY, DATE Accurark - Michael Taylor, LS (703) 635-3060, 12/2021

Modified Underdrain Details

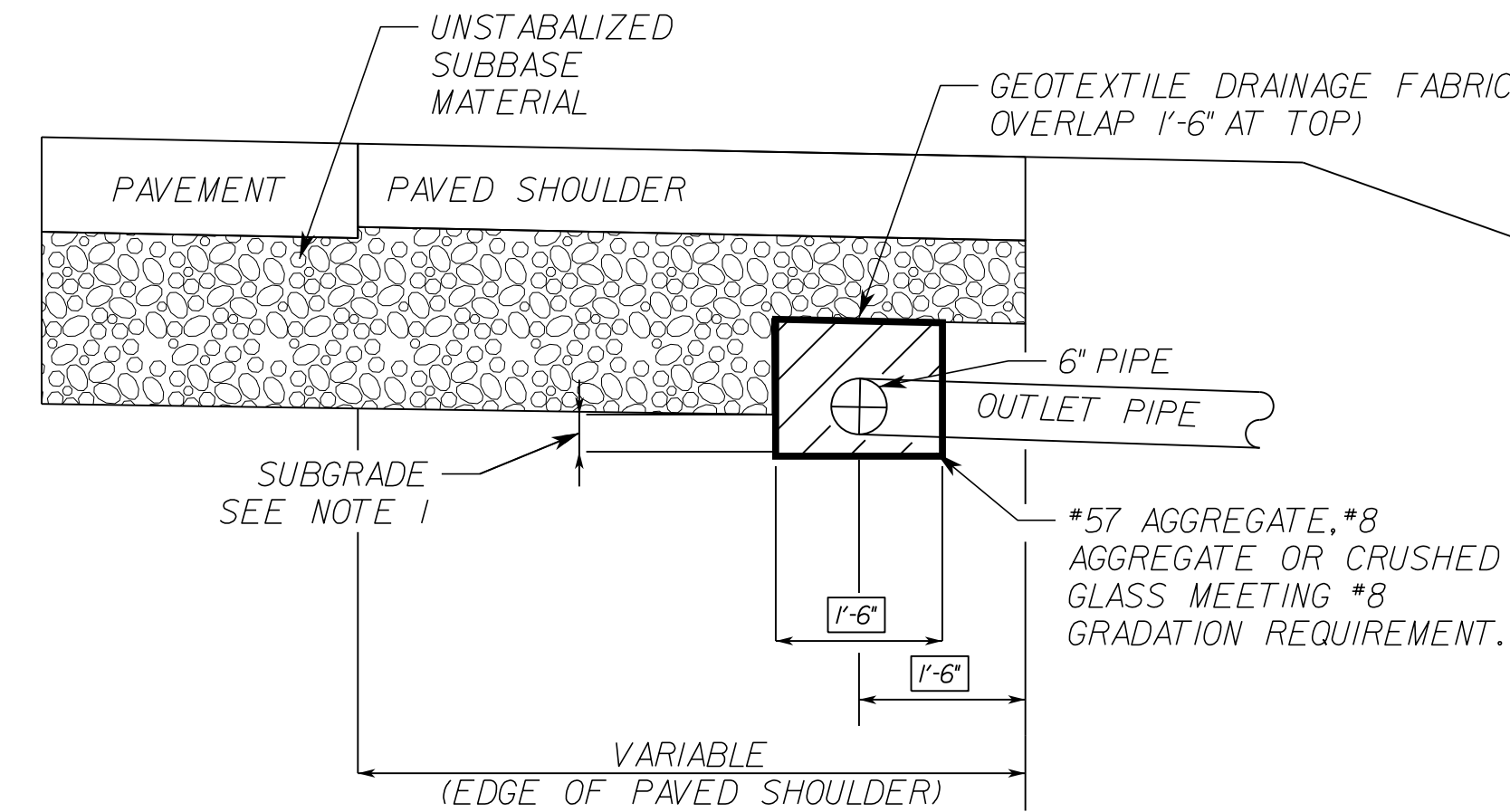


REVISED	STATE	ROUTE	STATE	VDOT PROJECT NO.	SHEET NO.
	VA.	495		0495-029-419 C501 RW201	2F AREA 4

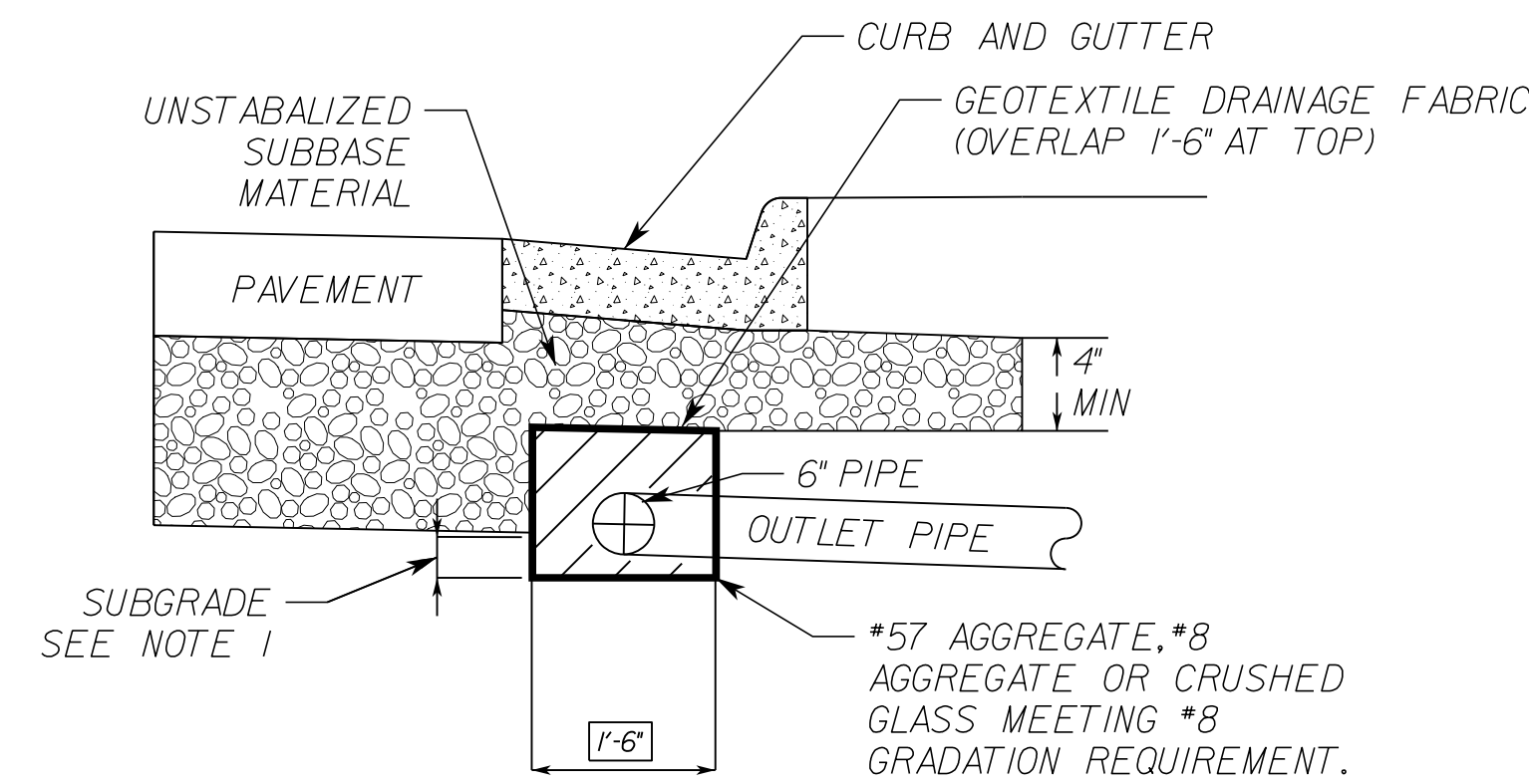
DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT

Rinker Design Assoc., P.C.
 Manassas, Virginia
 (HYDRAULICS ENGINEER)

MOD.UD-4 UNDER PAVED SHOULDER

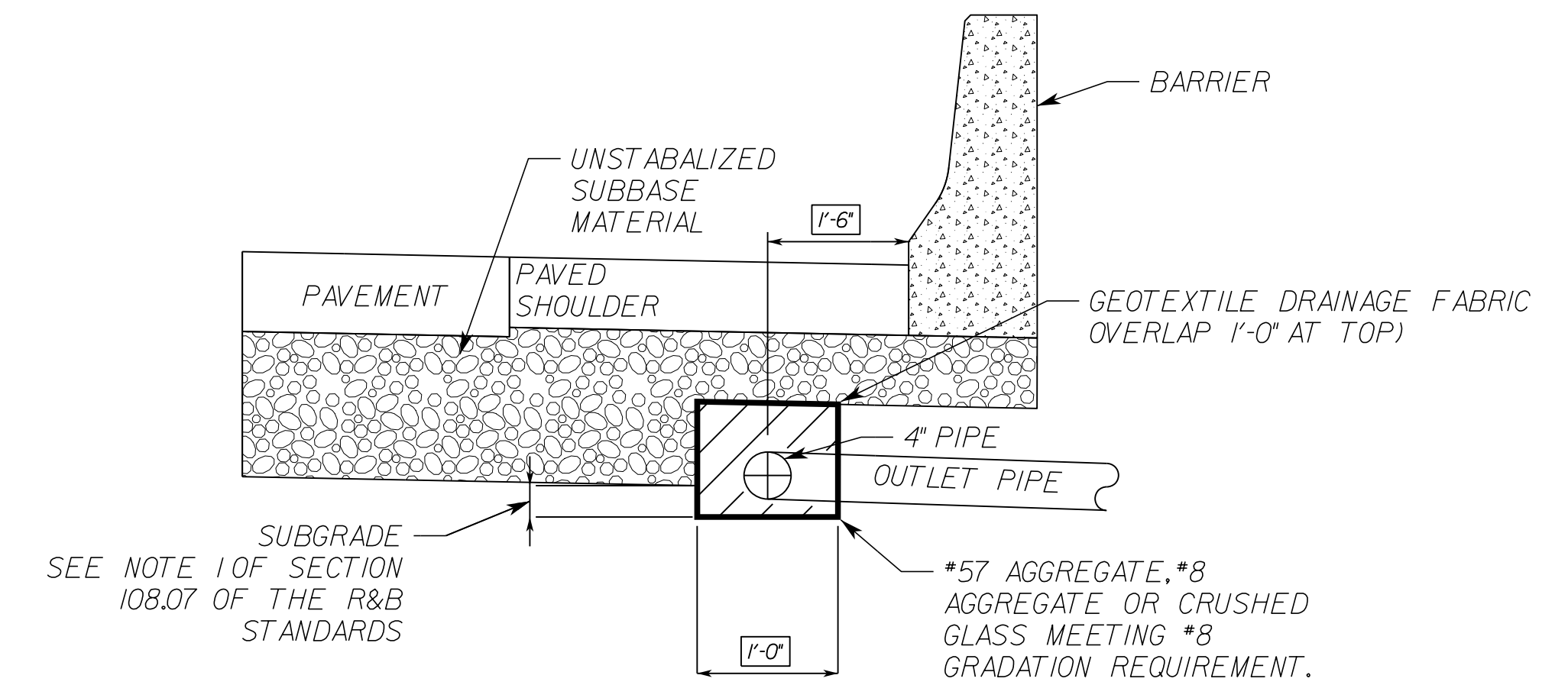


MOD.UD-4 UNDER CURB & GUTTER

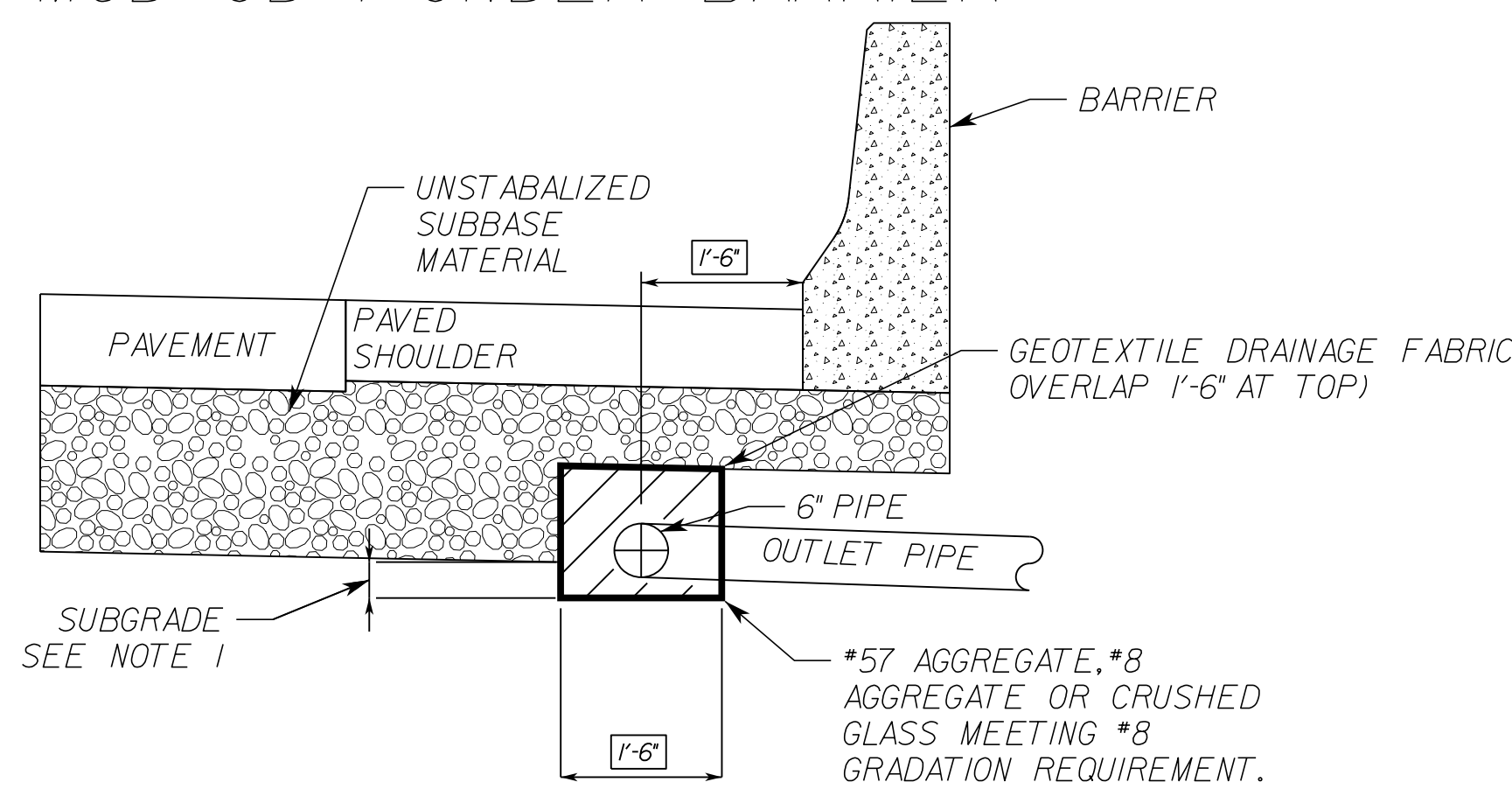


UNDERDRAIN SHALL BE CENTERED UNDER CURB AND GUTTER

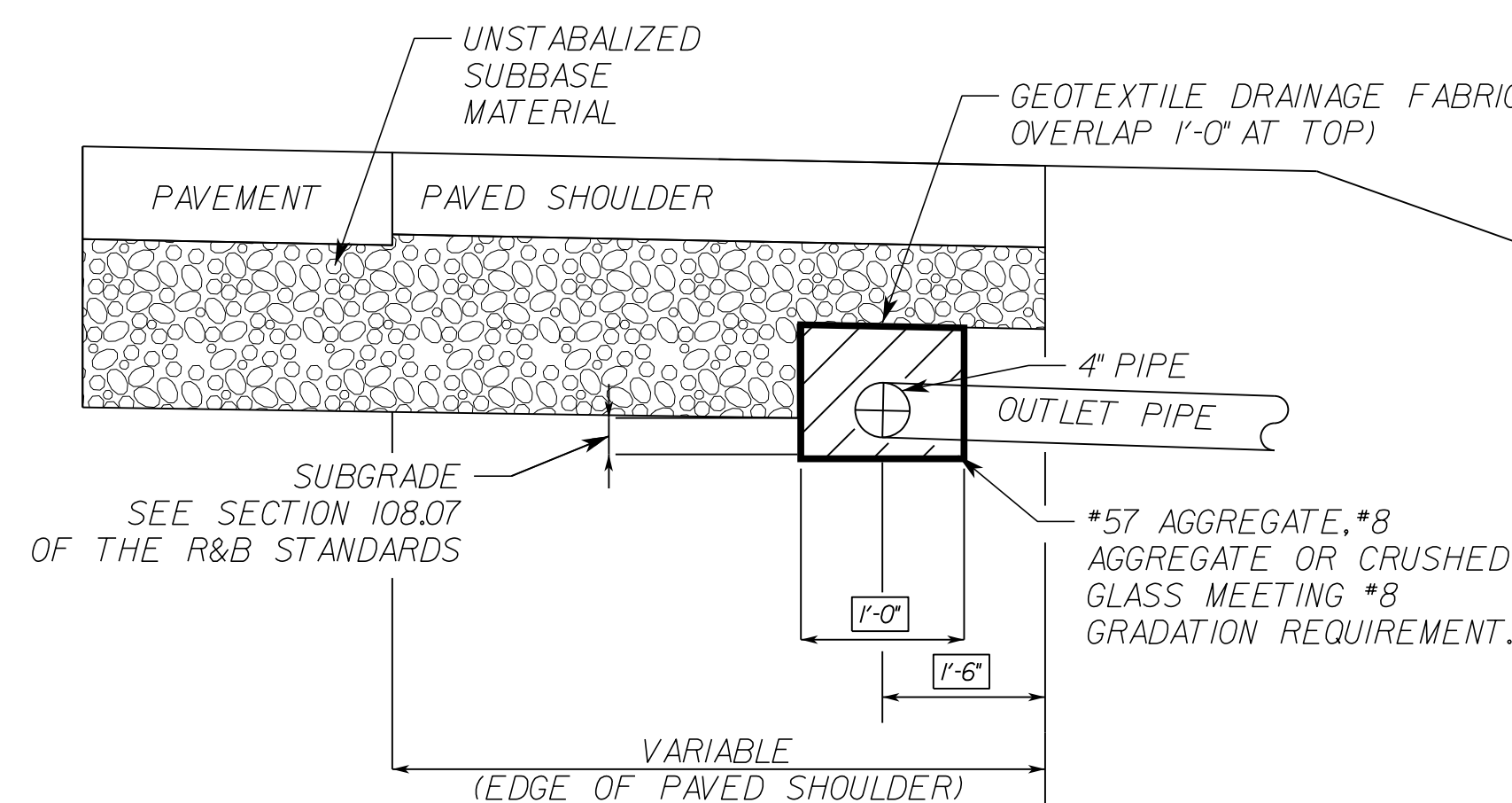
ST'D.UD-4 UNDER BARRIER



MOD UD-4 UNDER BARRIER



ST'D.UD-4 UNDER PAVED SHOULDER WITH MODIFIED PLACEMENT



MOD.UD-4 NOTES CONTINUED

5. OUTLET PIPES ARE TO BE INSTALLED ON 2% MIN (3% DESIRABLE) GRADE AND LOCATED EVERY 700' MAXIMUM OR AS NOTED ON PLANS.

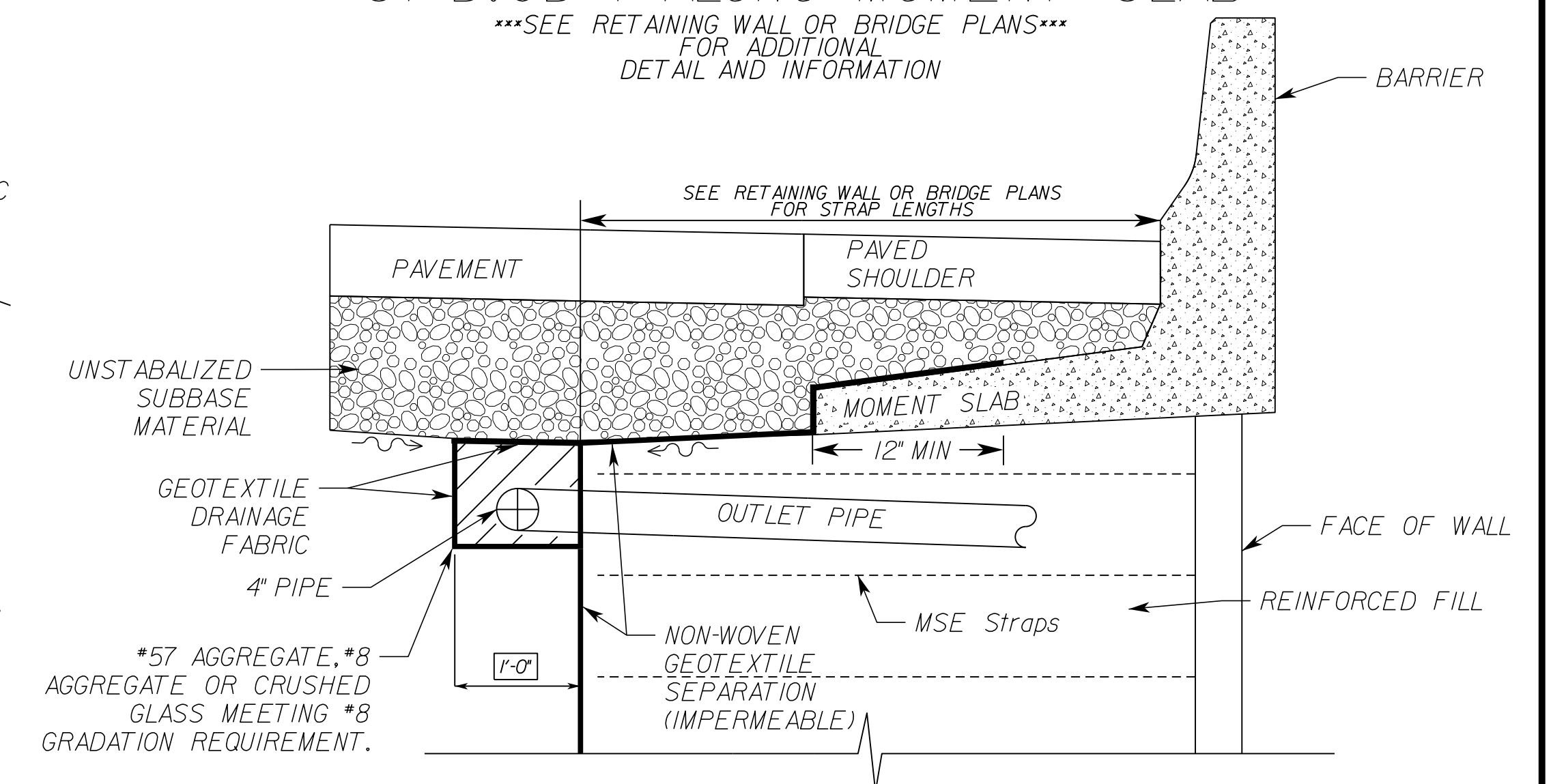
6. OUTLET PIPE TO BE SECURELY CONNECTED TO EW-12 OR OTHER DRAINAGE STRUCTURE.

7. WITHIN THE LIMITS OF A COMMERCIAL ENTRANCE, NON-PERFORATED PIPE SHALL BE UTILIZED IN LIEU OF PERFORATED PIPE.

8. THE LENGTH OF PIPE BETWEEN THE WYE CONNECTION AND THE EW-12 SHALL BE LIMITED TO NO MORE THAN 1-0' TO PERMIT CAMERA INSPECTION OF THE MAIN LINE IN EITHER DIRECTION.

ST'D.UD-4 ALONG MOMENT SLAB

***SEE RETAINING WALL OR BRIDGE PLANS FOR ADDITIONAL DETAIL AND INFORMATION



MOD.UD-4 NOTES

1. 4" MINIMUM, PROVIDED ATTAINING MINIMUM 4" OF AGGREGATE ON TOP OF PIPE

2. WHEN THE LONGITUDINAL PIPE CONNECTS DIRECTLY INTO A DRAINAGE STRUCTURE (DROP INLET, MANHOLE, ECT.), NON-PERFORATED OUTLET PIPES ARE NOT REQUIRED.

3. INVERT ELEVATION AT OUTLET END OF OUTLET PIPE TO BE A MINIMUM OF 1'-0" ABOVE INVERT ELEVATION OF RECEIVING DRAINAGE DITCH OR STRUCTURE.

4. ALL CONNECTIONS (ELBOWS, WYES, ETC.) WITHIN PAY LIMITS FOR OUTLET PIPE ARE TO BE OF THE SAME CRUSHING STRENGTH AS THE OUTLET PIPE.

NOT TO SCALE

VDOT PROJECT NO.
0495-029-419

SHEET NO.
2F
AREA 4

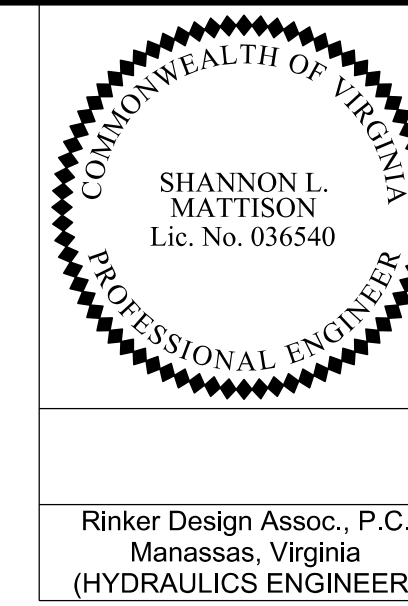
APPROVED FOR CONSTRUCTION

NOVA DISTRICT

10/26/2022

PROJECT MANAGER VDOT - Riprap/Strat. PE, (703) 259-2362
SURVEYED BY, DATE RDA - Nicholas Kougaull's LS, (703) 334-0837, 12/2021
DESIGN BY RDA - Darrell Fischer PE, (703) 334-0823
SUBSURFACE UTILITY BY, DATE Accurark - Michael Taylor LS, (703) 635-3060, 12/2021

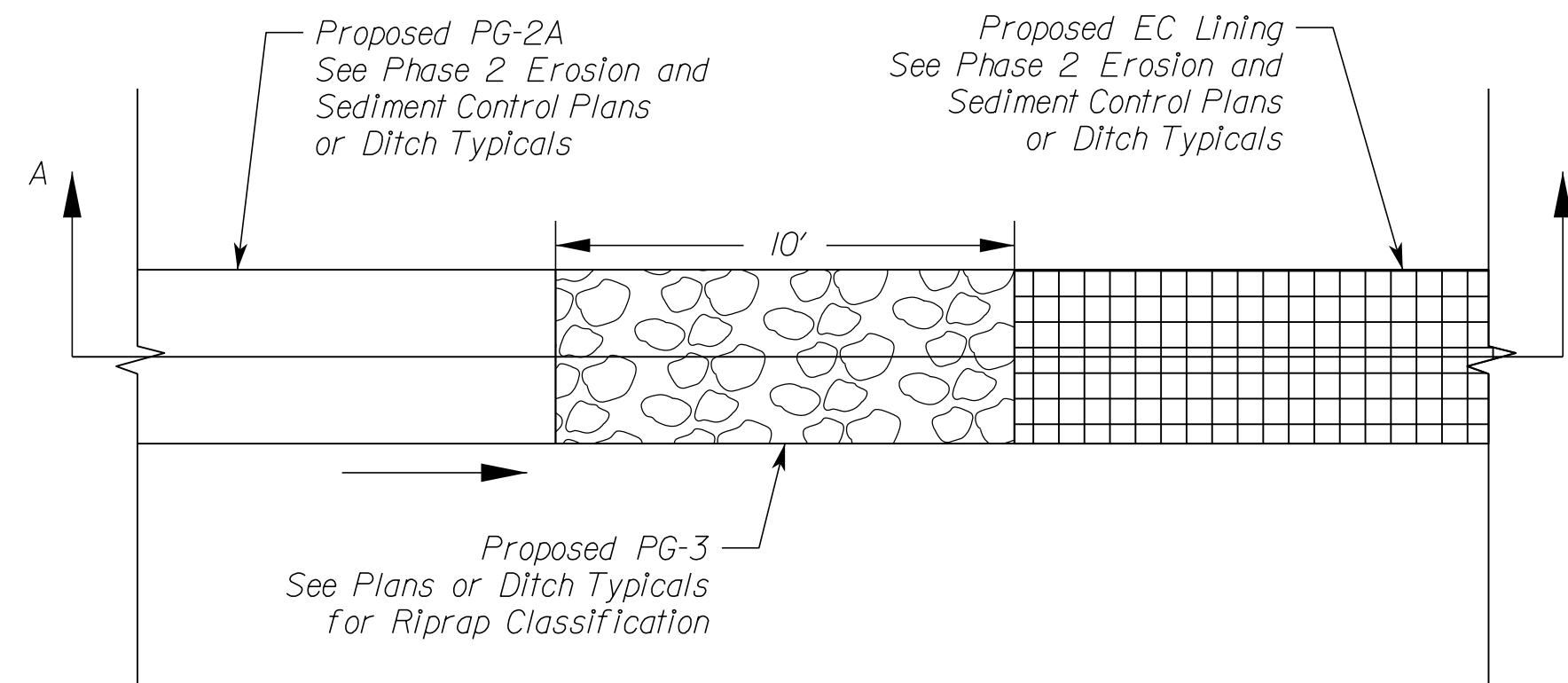
Ditch Lining Transition Details



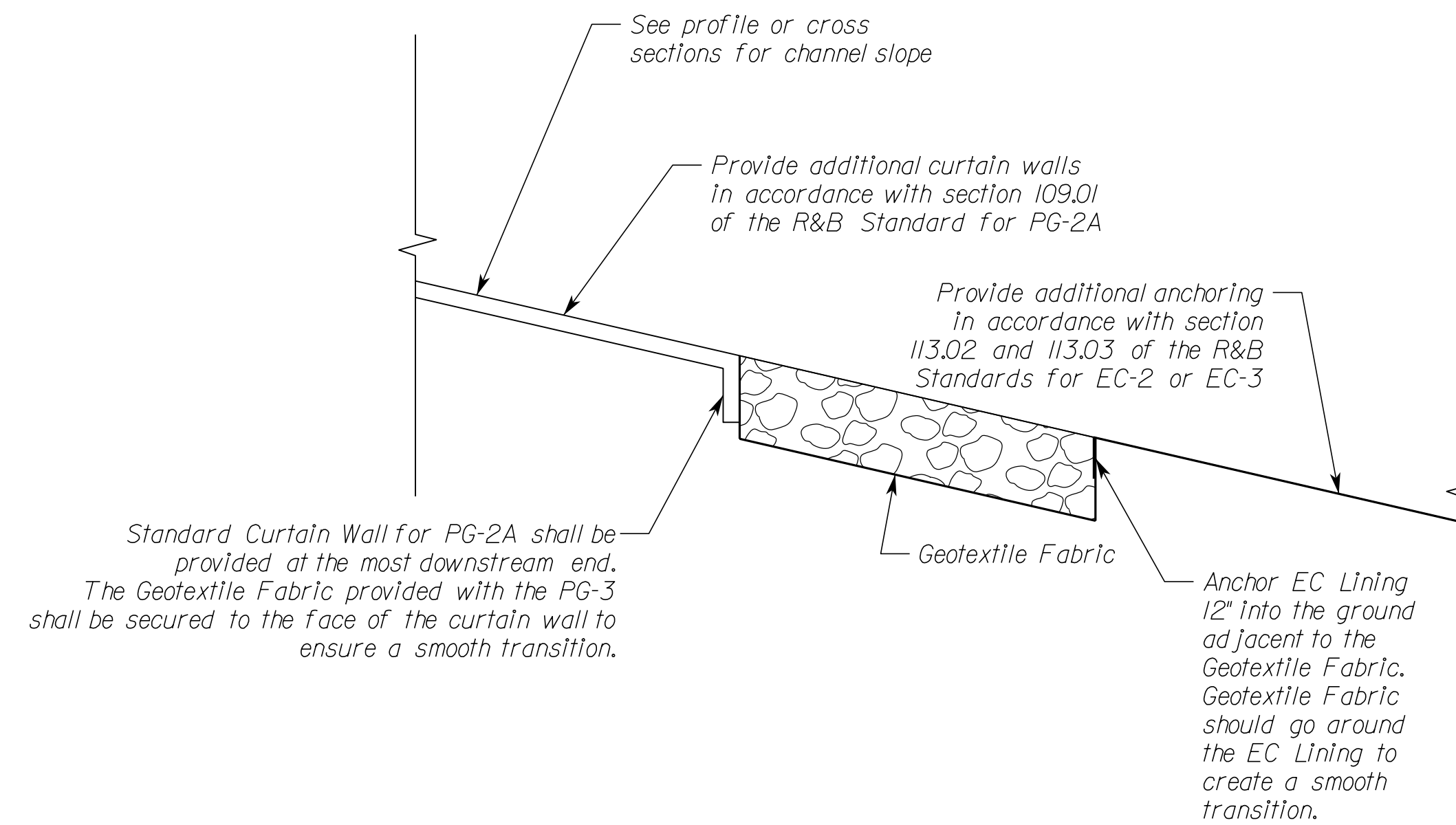
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Manassas, Virginia
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REVISED	STATE	ROUTE	STATE	VDOT PROJECT NO.	SHEET NO.
	VA.	495		0495-029-419 C501 RW201	2F(1) AREA 4

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



PLAN VIEW
NOT TO SCALE



SECTION A-A
NOT TO SCALE

NOVA DISTRICT

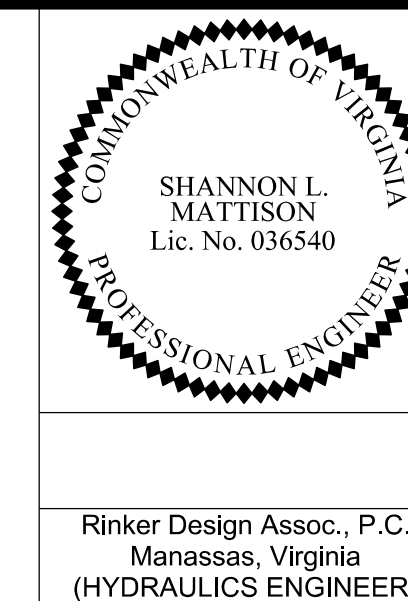
10/26/2022

NOT TO SCALE	VDOT PROJECT NO. 0495-029-419	SHEET NO. 2F(1) AREA 4
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APPROVED FOR CONSTRUCTION

PROJECT MANAGER VDOT - Rupal Shah, P.E. (703) 259-2362
 SURVEYED BY, DATE RDA - Nicholas Kougaull, LS (703) 334-0837, 12/2021
 DESIGN BY RDA - Darrell Fischer, P.E. (703) 334-0823
 SUBSURFACE UTILITY BY, DATE Accurark - Michael Taylor, LS (703) 635-3060, 12/2021

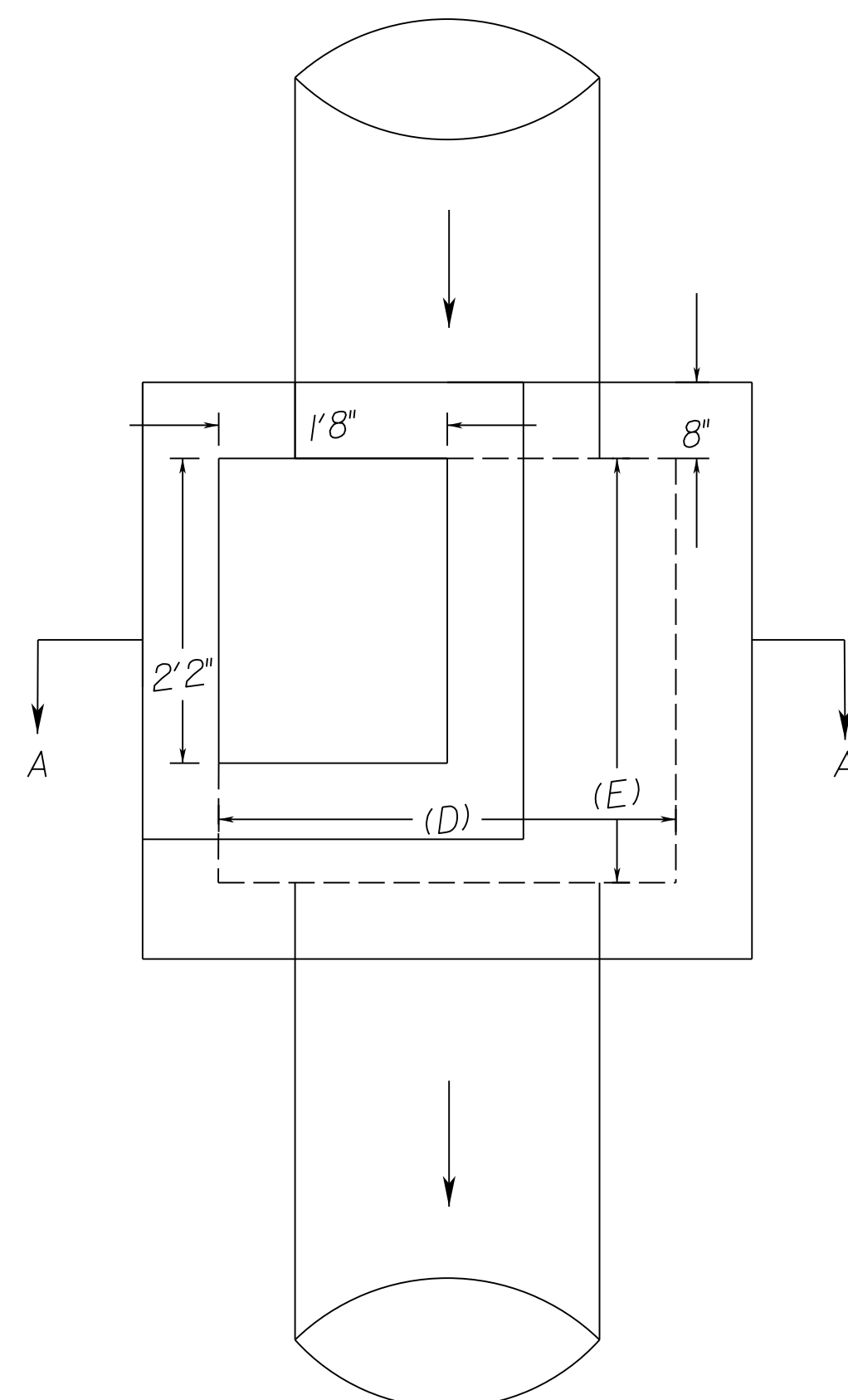
Modified DI-10 Details



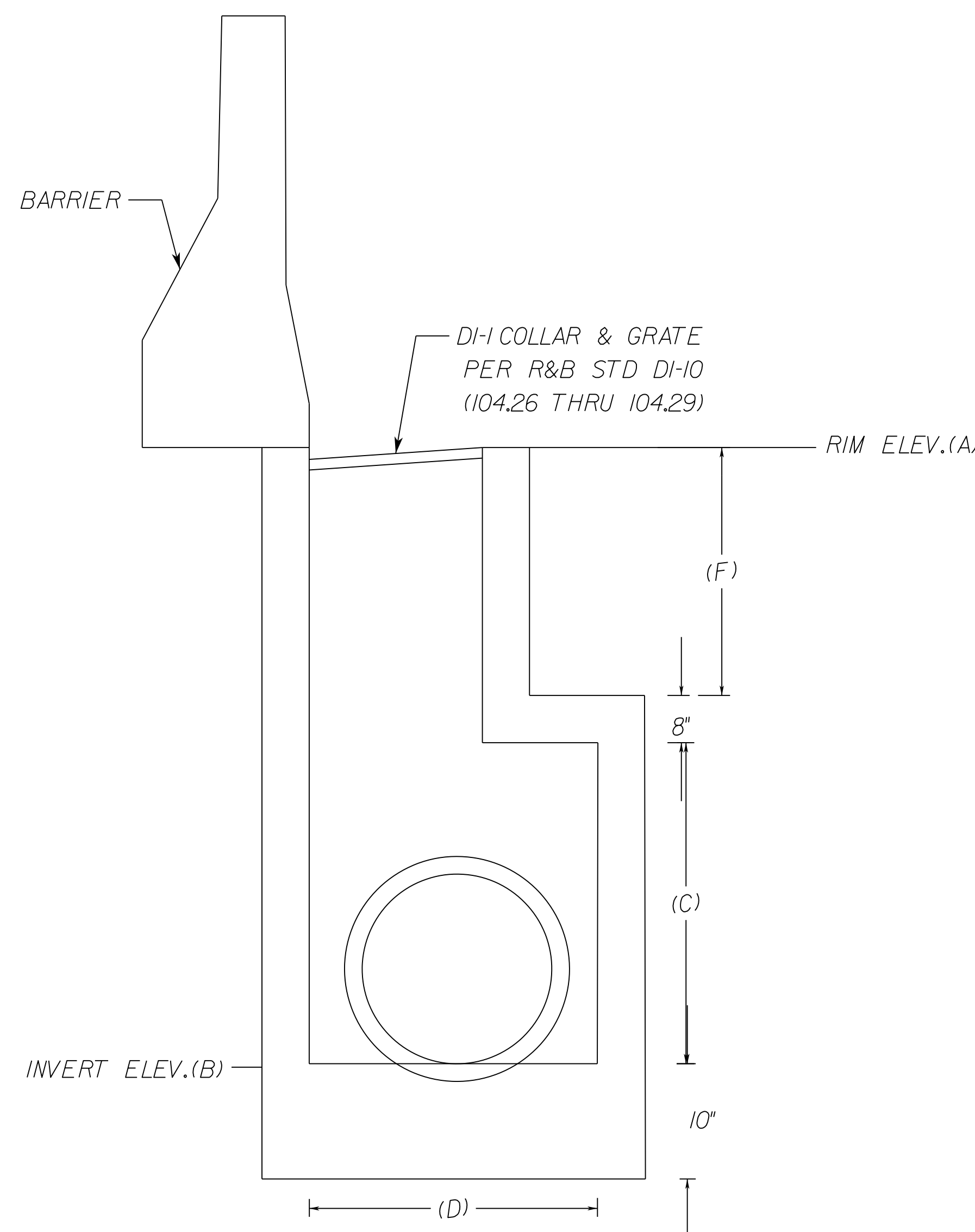
REVISED	STATE	ROUTE	STATE	VDOT PROJECT NO.	SHEET NO.
	VA.	495		0495-029-419 C501 RW201	2F(2) AREA 4

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

Note: See Sheets 3DRN thru 19DRN for actual pipe location and orientation.



Modified Drop Inlet
DI-10 Series



Section A-A

Note: Dimensions to be provided for each structure.

Refer to table on Sheet 2F(3) for dimensions listed, and plan sheets 10 through 19 for orientation of incoming and outgoing pipes. Contractor to submit shop drawings for all modified structures prior to commencing construction.

FOR DETAIL PURPOSES ONLY
 CONTRACTOR SHALL PROVIDE SHOP DRAWINGS
 WITH STRUCTURAL ANALYSIS PRIOR TO ORDER
 AND/OR POUR.

NOVA DISTRICT

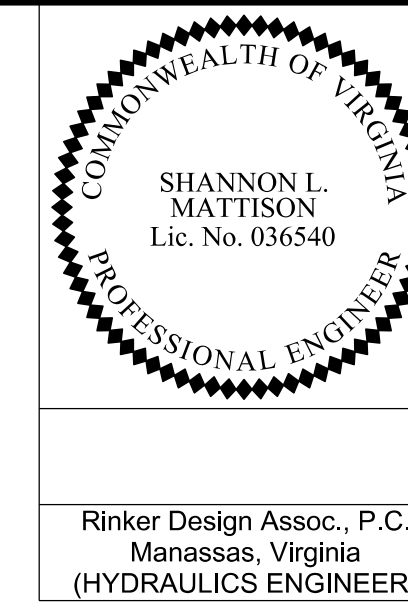
10/26/2022

NOT TO SCALE	VDOT PROJECT NO. 0495-029-419	SHEET NO. 2F(2) AREA 4
--------------	----------------------------------	------------------------------

APPROVED FOR CONSTRUCTION

PROJECT MANAGER VDOT - Rupal Shah, P.E. (703) 259-2362
SURVEYED BY, DATE RDA - Nicholas Kougaull's LS (703) 334-0837, 12/2021
DESIGN BY RDA - Darrell Fischer, P.E. (703) 334-0823
Dewberry - Ron Jakomlitch, P.E. (703) 849-0651
SUBSURFACE UTILITY BY, DATE Accurark - Michael Taylor, LS (703) 635-3060, 12/2021

Modified DI-10 Dimensions



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(HYDRAULICS ENGINEER)

REVISED	STATE	ROUTE	STATE VDOT PROJECT NO.	SHEET NO.
	VA.	495	0495-029-419 C501 RW201	2F(3) AREA 4

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

Str. Number	Rim Elev.	Invert Elev.	Box Height	Box Width	Box Length	Height to Rim
	(A)	(B)	(C)	(D)	(E)	(F)
15-21	259.71	248.25	9'3"	5'5"	5'6"	1'7"
15-22	253.98	244.32	7'6"	5'5"	2'2"	1'6"
15-23	249.41	241.33	5'1"	5'5"	2'2"	2'4"
15-25	247.71	237.89	7'8"	5'5"	6'	1'6"
15-47	247.86	240.68	5'1"	5'5"	2'2"	1'5"
15-55	251.80	242.05	6'8"	5'5"	2'2"	2'5"
15-56	248.47	241.00	5'1"	5'5"	2'2"	1'8.5"
16-15	240.24	230.30	7'5"	6'	2'2"	1'10.5"
16-17	231.10	216.50	10'3"	6'2"	2'2"	3'8.5"
16-18	224.93	209.87	11"	6'	2'2"	3'9"
16-22	241.36	221.90	17'1"	6'3"	2'2"	1'8.5"
17-05	218.99	200.70	12'9"	6'	6'	4'10.5"
17-10	218.71	196.00	10'	6'7"	6'	12'0.5"

NOVA DISTRICT

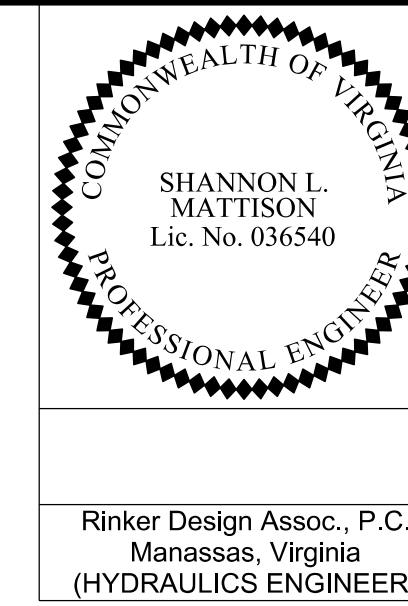
FOR DETAIL PURPOSES ONLY
CONTRACTOR SHALL PROVIDE SHOP DRAWINGS
WITH STRUCTURAL ANALYSIS PRIOR TO ORDER
AND/OR POUR.

NOT TO SCALE	VDOT PROJECT NO. 0495-029-419	SHEET NO. 2F(3) AREA 4
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APPROVED FOR CONSTRUCTION

PROJECT MANAGER_VDOT - Rupal Shah, P.E. (703) 259-2362
SURVEYED BY, DATE_RDA - Nicholas Kougaull, LS (703) 334-0837, 12/2021
DESIGN BY_RDA - Darrell Fischer, P.E. (703) 334-0823
SUBSURFACE UTILITY BY, DATE_Accumark - Michael Taylor, LS (703) 635-3060, 12/2021

Modified DI-2 Dimensions

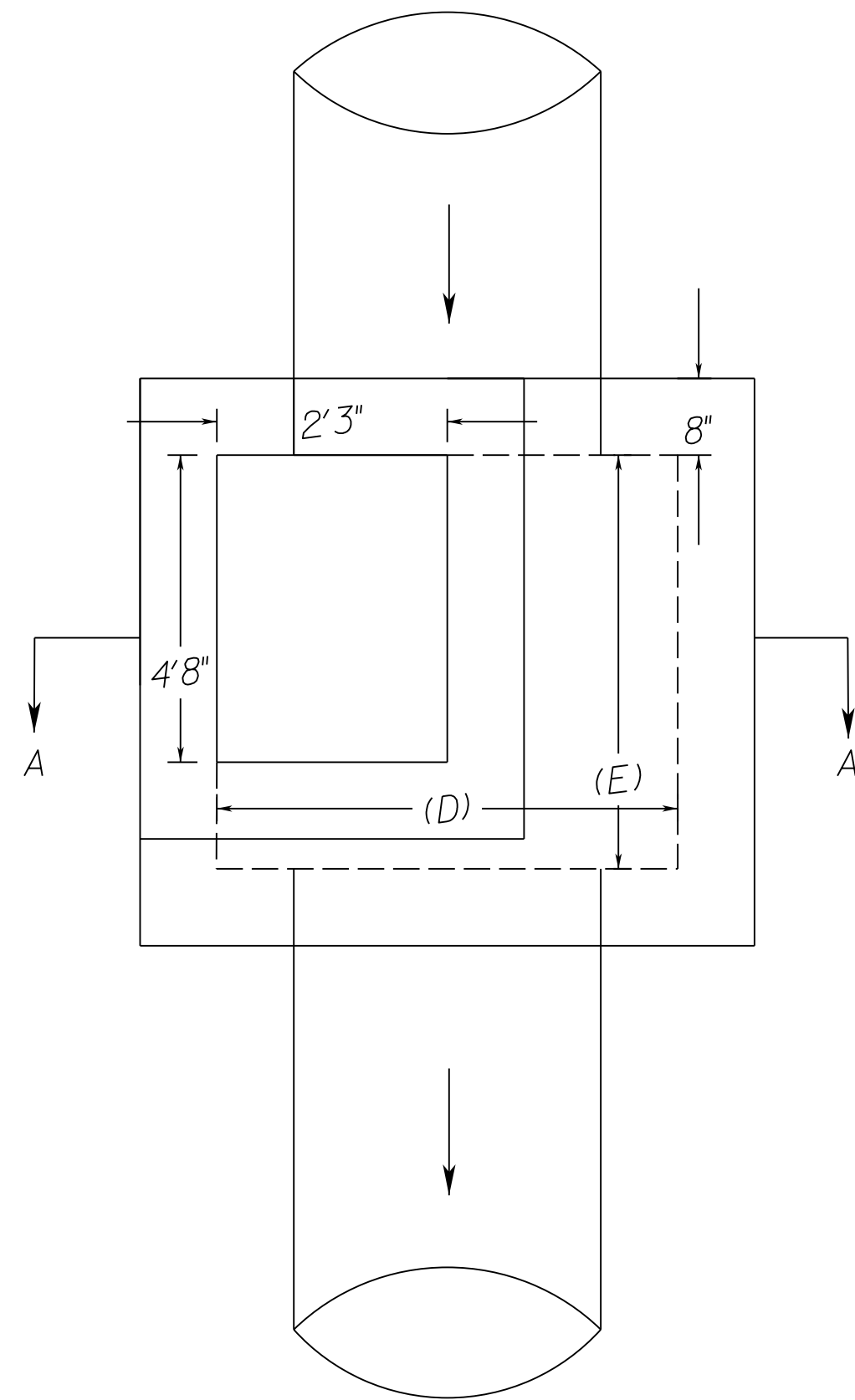


Rinker Design Assoc., P.C.
Manassas, Virginia
(HYDRAULICS ENGINEER)

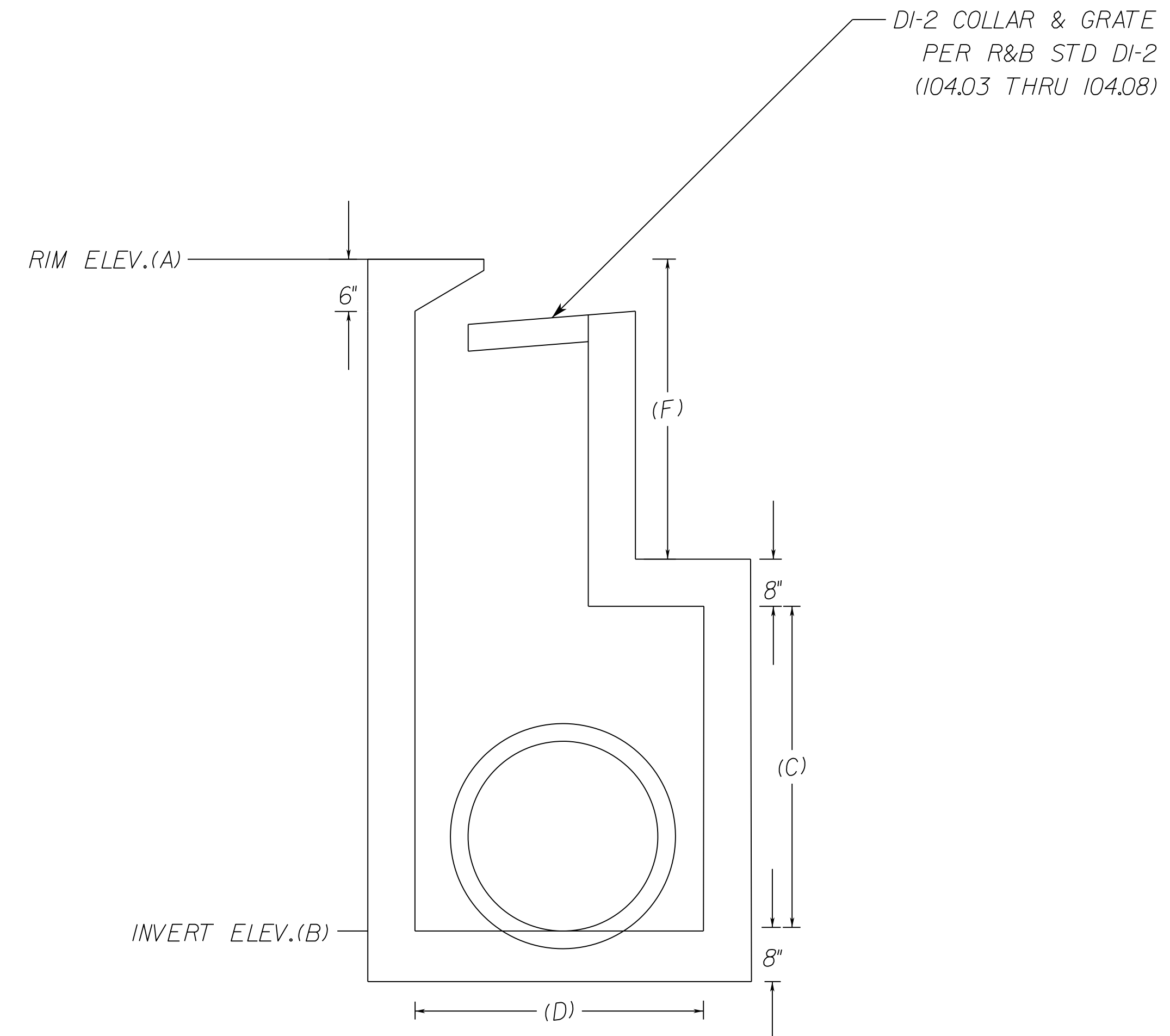
REVISED	STATE	ROUTE	STATE	VDOT PROJECT NO.	SHEET NO.
	VA.	495		0495-029-419 C501 RW201	2F(4) AREA 4

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

Note: See Sheets 3DRN thru 19DRN for actual pipe location and orientation.



Modified Drop Inlet
DI-2 Series



Section A-A

Str. Number	Rim Elev.	Invert Elev.	Box Height	Box Width	Box Length	Height to Rim
	(A)	(B)	(C)	(D)	(E)	(F)
17-28	214.75	189.55	11'6"	6'6"	7'0"	13'

Note: Dimensions to be provided for each structure.

Refer to table on Sheet 2F(3) for dimensions listed, and plan sheets 10 through 19 for orientation of incoming and outgoing pipes. Contractor to submit shop drawings for all modified structures prior to commencing construction.

FOR DETAIL PURPOSES ONLY
CONTRACTOR SHALL PROVIDE SHOP DRAWINGS
WITH STRUCTURAL ANALYSIS PRIOR TO ORDER
AND/OR POUR.

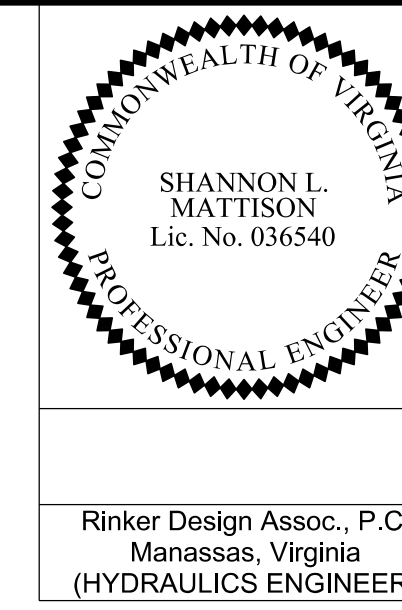
NOT TO SCALE	VDOT PROJECT NO. 0495-029-419	SHEET NO. 2F(4) AREA 4
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APPROVED FOR CONSTRUCTION

NOVA DISTRICT

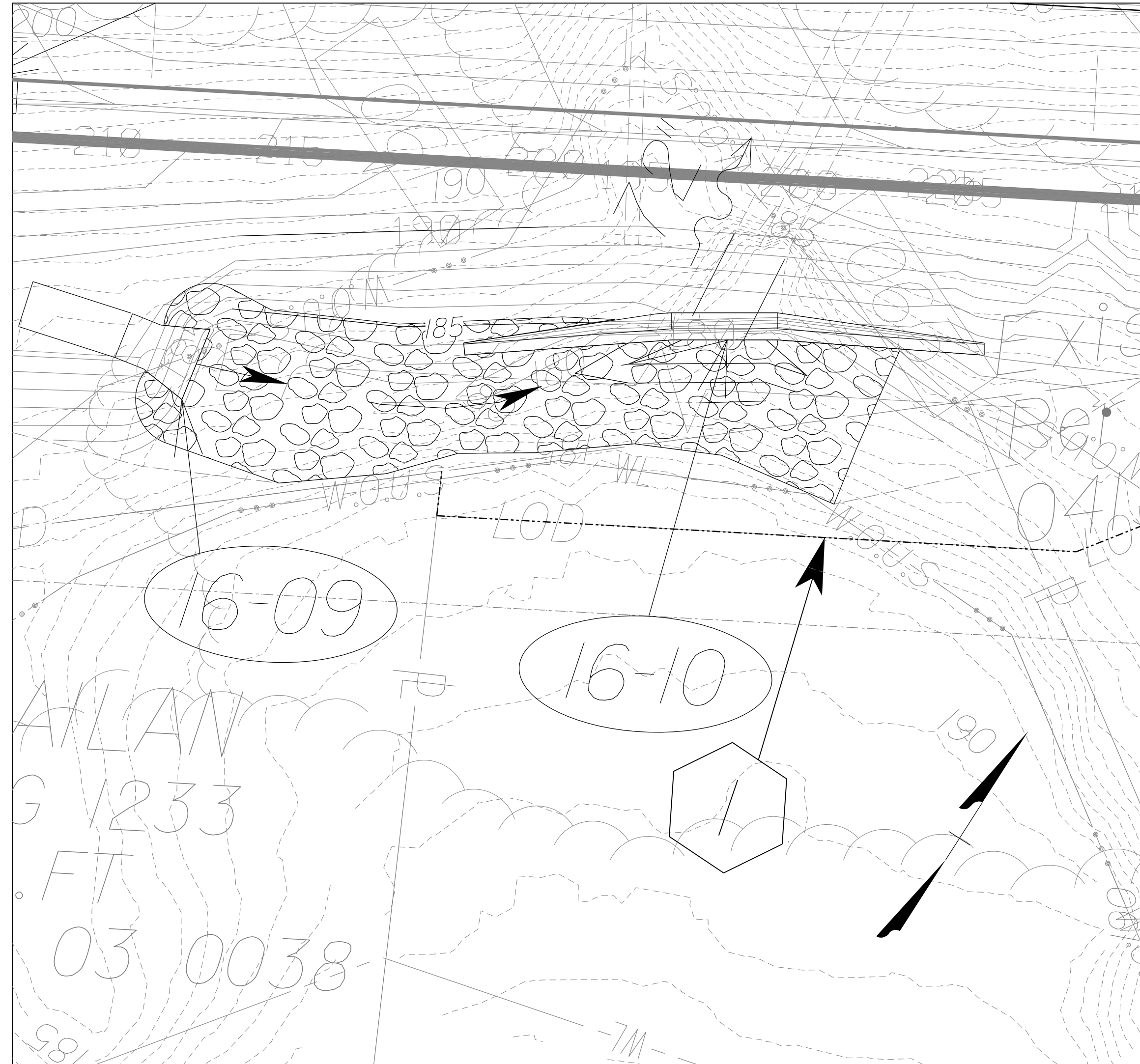
PROJECT MANAGER VDOT - Rupal Shah, PE, (703) 259-2362
SURVEYED BY, DATE RDA - Nicholas Kougaull's, LS, (703) 334-0837, 12/2021
DESIGN BY RDA - Darrell Fischer, PE, (703) 334-0823
SUBSURFACE UTILITY BY, DATE Accurark - Michael Taylor, LS, (703) 635-3060, 12/2021

Structure 16-10 Details

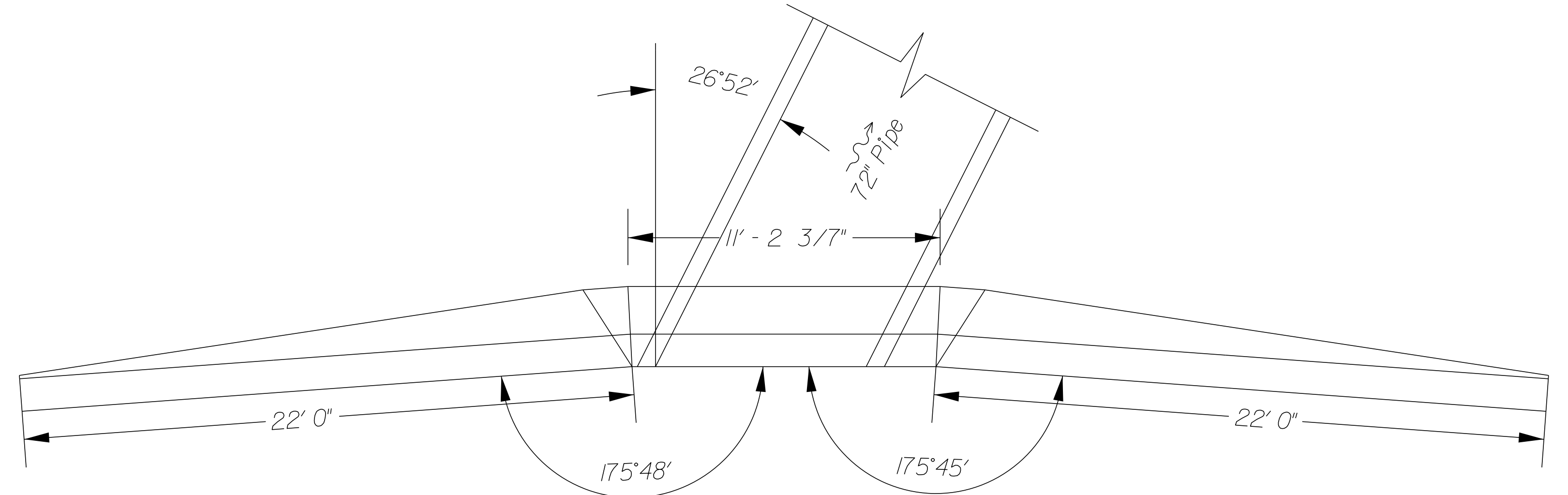


REVISED	STATE	ROUTE	STATE	VDOT PROJECT NO.	SHEET NO.
	VA.	495		0495-029-419 C501 RW201	2F(5) AREA 4

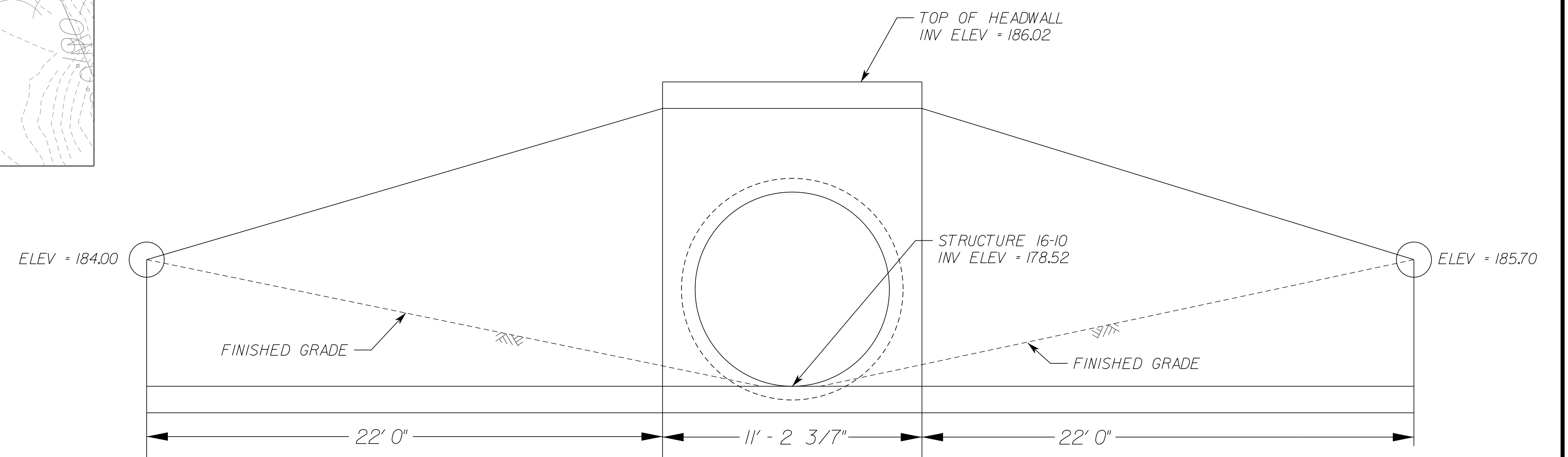
DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT



INSET



PLAN
NOT TO SCALE



DEVELOPED ELEVATION
NOT TO SCALE

FOR DETAIL PURPOSES ONLY
CONTRACTOR SHALL PROVIDE SHOP DRAWINGS
WITH STRUCTURAL ANALYSIS PRIOR TO ORDER
AND/OR POUR.

SCALE 0 10' 20'	VDOT PROJECT NO. 0495-029-419	SHEET NO. 2F(5) AREA 4
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APPROVED FOR CONSTRUCTION

NOVA DISTRICT

PROJECT MANAGER VDOT - Rupal Shah, PE, (703) 259-2362
SURVEYED BY, DATE RDA - Nicholas Kougaull's, LS, (703) 334-0837, 12/2021
DESIGN BY RDA - Darrell Fischer, PE, (703) 334-0823
SUBSURFACE UTILITY BY, DATE Accurark - Michael Taylor, LS, (703) 635-3060, 12/2021

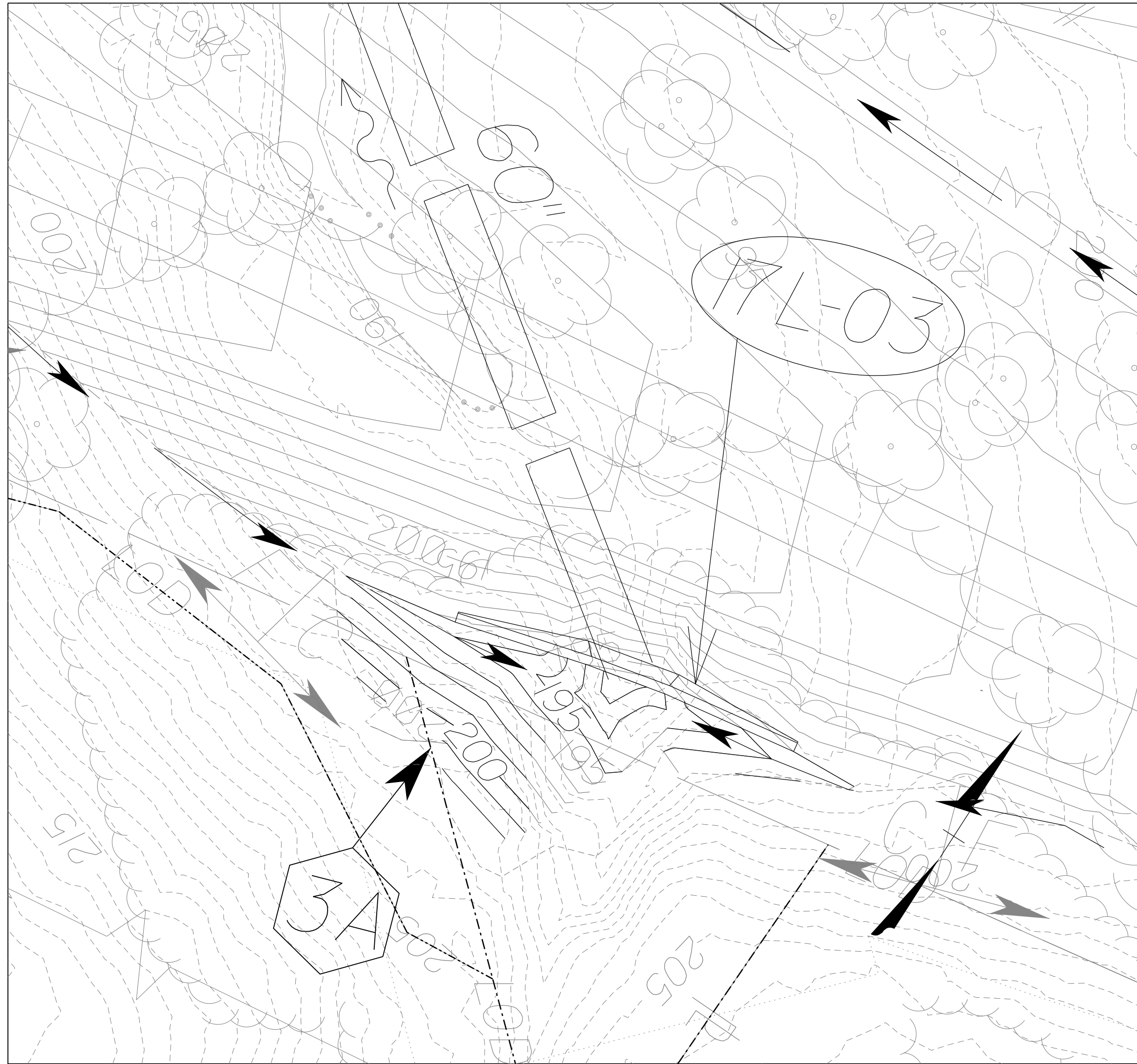
Structure 17L-03 Details

SHANNON L. MATTISON
Lic. No. 036540
PROFESSIONAL ENGINEER

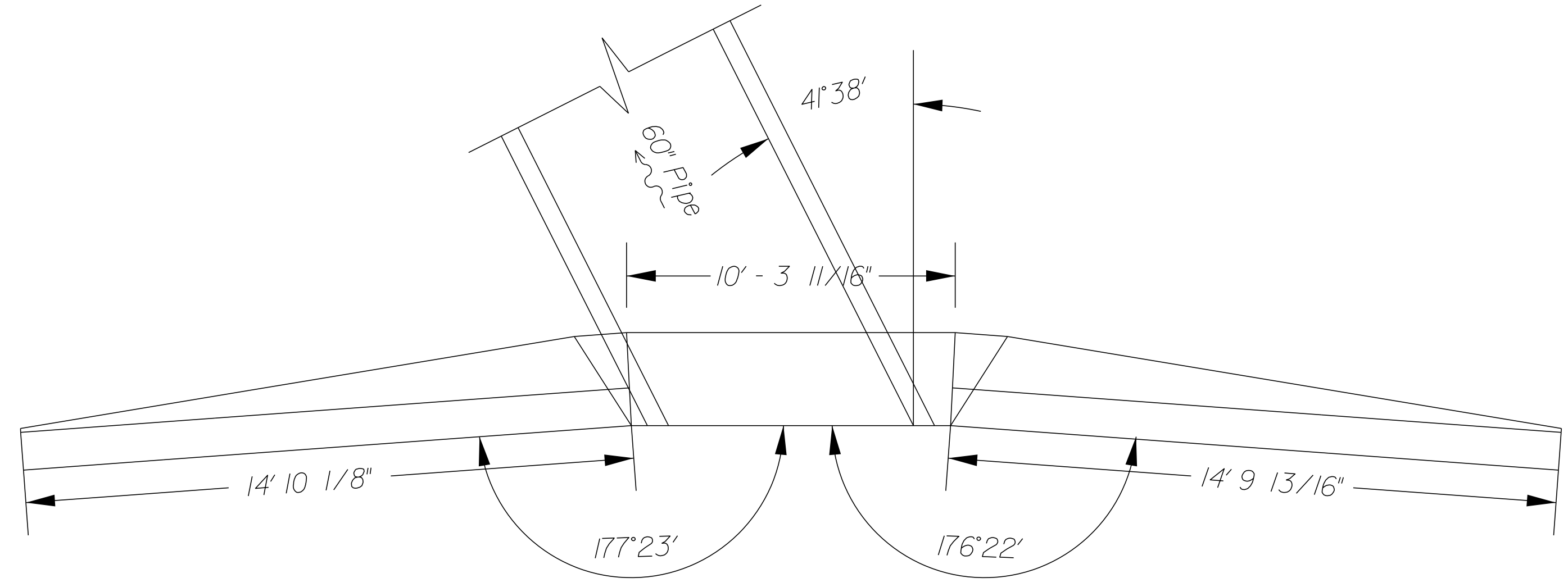
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Manassas, Virginia
(HYDRAULICS ENGINEER)

REVISED	STATE	ROUTE	STATE	VDOT PROJECT NO.	SHEET NO.
	VA.	495		0495-029-419 C501 RW201	2F(6) AREA 4

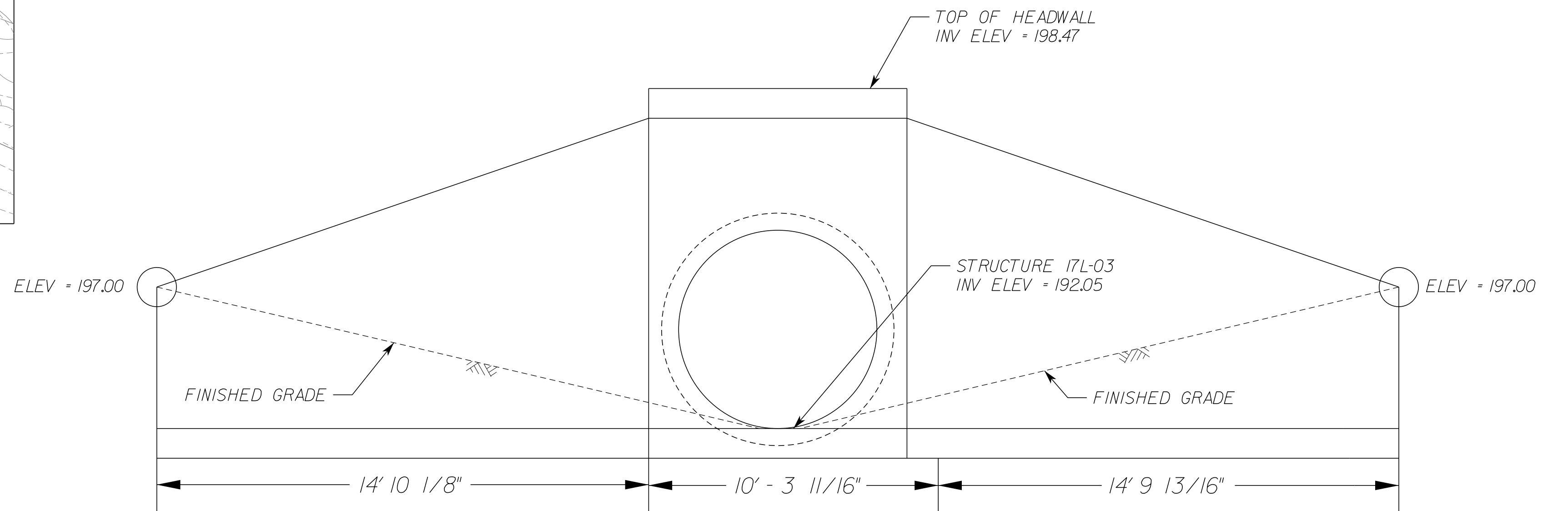
DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT



INSET



PLAN
NOT TO SCALE



DEVELOPED ELEVATION
NOT TO SCALE

FOR DETAIL PURPOSES ONLY
CONTRACTOR SHALL PROVIDE SHOP DRAWINGS
WITH STRUCTURAL ANALYSIS PRIOR TO ORDER
AND/OR POUR.

SCALE 0 10' 20'

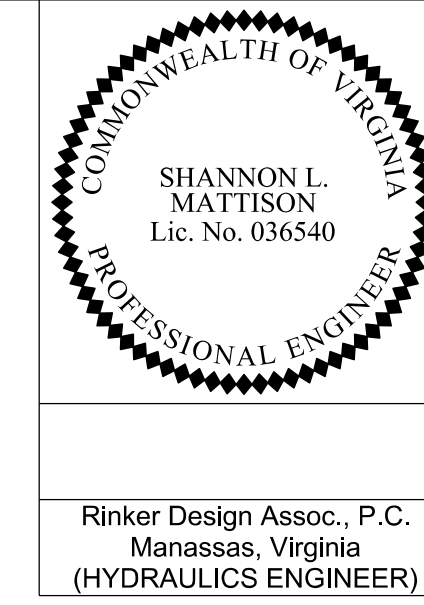
VDOT PROJECT NO. 0495-029-419

SHEET NO. 2F(6) AREA 4

APPROVED FOR CONSTRUCTION

NOVA DISTRICT

PROJECT MANAGER VDOT - Rupal Shah, P.E. (703) 259-2362
SURVEYED BY, DATE RDA - Nicholas Kougall's, L.S. (703) 334-0837, 12/2021
DESIGN BY RDA - Darrell Fischer, P.E. (703) 334-0823
Newberry - Ron Jakomilich, P.E. (703) 849-0651
SUBSURFACE UTILITY BY, DATE Accumark - Michael Taylor, L.S. (703) 635-3060, 12/2021



Rinker Design Assoc., P.C.
Manassas, Virginia
(HYDRAULICS ENGINEER)

Drainage Descriptions

REVISED	STATE	ROUTE	STATE	VDOT PROJECT NO.	SHEET NO.
	VA.	495		0495-029-419 C501 RW201	2K AREA 4

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

Sheet	Description	Stationing	Structure/Notes	Stationing	Structure/Notes	Stationing	Structure/Notes
Sheet 15		15-08 to 15-12	267' - 36" Storm Sewer Pipe Req'd. (8' Cover) Silt-Tight Joint Type Req'd. Inv(In)241.60 Inv(Out)239.30 Excavate 4' below bottom of storm sewer pipe and backfill with bedding Material Aggregate *25 or 26 70 Tons Bedding Material Aggregate *25 or 26				
15-01	1-S' d. DI-3B Req'd. L=6' H=4.3' Inv.=275.00 Top=279.27 Type B Nose Req'd. Connect UD-4 to DI						
15-01 to 15-02	82' - 15" Storm Sewer Pipe Req'd. (15' Cover) Silt-Tight Joint Type Req'd. Inv(In)275.00 Inv(Out)274.40	15-09	1-S' d. DI-5 Type III Grate (Precast) Req'd. S' d. PG-2A Type E Cover H=15.9' Inv.=239.10 Top=255.00 1-S' d. SL-1 Req'd. 0' Backup Berm Req'd.	15-15 to 15-18	188' - 60" Storm Sewer Pipe Req'd. (8' Cover) Silt-Tight Joint Type Req'd. Inv(In)231.00 Inv(Out)230.00 Excavate 4' below bottom of storm sewer pipe and backfill with bedding Material Aggregate *25 or 26 82 Tons Bedding Material Aggregate *25 or 26	15-20 to 15-21	23' - 48" Storm Sewer Pipe Req'd. (14' Cover) Silt-Tight Joint Type Req'd. Inv(In)252.60 Inv(Out)252.48 Excavate 4' below bottom of storm sewer pipe and back fill with bedding material Aggregate *25 or 26 8 Tons Bedding Material Aggregate *25 or 26
15-02	1-S' d. DI-3A Req'd. H=6.3' Inv.=274.30 Top=280.59 Type B Nose Req'd. 1-S' d. IS-1 Req'd. Connect UD-4 to DI Connect CD-2 to DI	15-09 to 15-11	27' - 24" Storm Sewer Pipe Req'd. (15' Cover) Silt-Tight Joint Type Req'd. Inv(In)239.10 Inv(Out)238.50	15-16	1-S' d. DI-5 Type III Grate Req'd. S' d. PG-2A Type C1 Cover H=6.9' Inv.=233.00 Top=239.89	15-21	1-Modified DI-10K with Extended Base Req'd. L=14' H=11.5' Inv.=248.25 Top=259.73 Type III Req'd. 1-S' d. IS-1 Req'd. Connect UD-4 to DI Drop connection invert protection measure consisting of 6" of additional concrete base material provided below the Invert See Sheet 2F(2) - 2F(3) for Details
15-02 to 15-03	63' - 15" Storm Sewer Pipe Req'd. (17' Cover) Silt-Tight Joint Type Req'd. Inv(In)274.30 Inv(Out)273.90	15-10	Structure Number Not Assigned	15-16 to 15-17	48' - 24" Storm Sewer Pipe Req'd. (7' Cover) Silt-Tight Joint Type Req'd. Inv(In)233.00 Inv(Out)232.50	15-21 to 15-22	250' - 48" Storm Sewer Pipe Req'd. (9' Cover) Silt-Tight Joint Type Req'd. Inv(In)248.25 Inv(Out)246.80 Excavate 4' below bottom of storm sewer pipe and backfill with bedding Material Aggregate *25 or 26 86 Tons Bedding Material Aggregate *25 or 26
15-03	1-S' d. DI-2BB Req'd. L=6' H=17.2' Inv.=265.00 Top=282.21 Type B Nose Req'd. 1-S' d. IS-1 Req'd. 1-S' d. SL-1 Req'd. Connect UD-4 to DI	15-11	1-S' d. DI-10K (Precast) Req'd. L=14' H=6.6' Inv.=238.40 Top=245.03 Type III Req'd. 1-S' d. IS-1 Req'd. Connect UD-4 to DI	15-17	1-S' d. DI-10K (Precast) Req'd. L=14' H=13.7' Inv.=227.40 Top=241.05 Type III Req'd. 1-S' d. IS-1 Req'd. 1-S' d. SL-1 Req'd. Connect UD-4 to DI	15-22 to 15-55	118' - 48" Storm Sewer Pipe Req'd. (16' Cover) Silt-Tight Joint Type Req'd. Inv(In)244.32 Inv(Out)243.73 Excavate 4' below bottom of storm sewer pipe and backfill with bedding Material Aggregate *25 or 26 41 Tons Bedding Material Aggregate *25 or 26
15-03 to 14-29	50' - 15" Storm Sewer Pipe Req'd. (17' Cover) Silt-Tight Joint Type Req'd. Inv(In)265.00 Inv(Out)263.97	15-12	6.6 Lin. Ft. S' d. MH-1 or 2 Req'd. 1 S' d. MH-1 Frame and Cover Req'd. Prop. Top=245.36 Inv.=238.10 1-S' d. IS-1 Req'd.	15-17 to 15-18	3' - 24" Storm Sewer Pipe Req'd. (12' Cover) Silt-Tight Joint Type Req'd. Inv(In)227.40 Inv(Out)227.35	15-22	1-Modified DI-10K with Extended Base Req'd. L=14' H=9.6' Inv.=244.32 Top=253.93 Type III Req'd. 1-S' d. IS-1 Req'd. Connect 2 UD-4 to DI See Sheet 2F(2) - 2F(3) for Details
15-04	Structure Number Not Assigned	15-12 to 15-15	96' - 42" Storm Sewer Pipe Req'd. (14' Cover) Silt-Tight Joint Type Req'd. Inv(In)238.10 Inv(Out)237.40 Excavate 4' below bottom of storm sewer pipe and backfill with bedding Material Aggregate *25 or 26 29 Tons Bedding Material Aggregate *25 or 26	15-18	15.6 Lin. Ft. Modified MH-2 with 84" Base Req'd. 1 S' d. MH-1 Frame and Cover Req'd. Prop. Top=241.28 Inv.=225.00 1-S' d. IS-1 Req'd. 1-S' d. SL-1 Req'd. Drop connection invert protection measure consisting of 6" of additional concrete base material provided below the Invert	15-22 to 15-55	118' - 48" Storm Sewer Pipe Req'd. (16' Cover) Silt-Tight Joint Type Req'd. Inv(In)244.32 Inv(Out)243.73 Excavate 4' below bottom of storm sewer pipe and backfill with bedding Material Aggregate *25 or 26 41 Tons Bedding Material Aggregate *25 or 26
15-05	1-S' d. DI-10K (Precast) Req'd. L=14' H=6.7' Inv.=250.00 Top=256.70 Type III Req'd. 1-S' d. IS-1 Req'd. Connect UD-4 to DI	15-13	1-S' d. EW-1 (36") Req'd. Inv.=244.00	15-18 to 16-06	40' - 60" Storm Sewer Pipe Req'd. (12' Cover) Silt-Tight Joint Type Req'd. Inv(In)225.00 Inv(Out)223.00 Excavate 4' below bottom of storm sewer pipe and back fill with bedding material Aggregate *25 or 26 176 Tons Bedding Material Aggregate *25 or 26	15-23	1-Modified DI-10K with Extended Base Req'd. L=14' H=8.1' Inv.=241.33 Top=249.41 Type III Req'd. 1-S' d. IS-1 Req'd. Connect 2 UD-4 to DI See Sheet 2F(2) - 2F(3) for Details
15-05 to 15-06	7' - 24" Storm Sewer Pipe Req'd. (5' Cover) Silt-Tight Joint Type Req'd. Inv(In)250.00 Inv(Out)249.90	15-13 to 15-14	17' - 36" Storm Sewer Pipe Req'd. (13' Cover) Silt-Tight Joint Type Req'd. Inv(In)244.00 Inv(Out)243.90 Excavate 4' below bottom of storm sewer pipe and backfill with bedding Material Aggregate *25 or 26 5 Tons Bedding Material Aggregate *25 or 26	15-19	8.4 Lin. Ft. S' d. MH-1 or 2 Req'd. 1 S' d. MH-1 Frame and Cover Req'd. Prop. Top=262.99 Inv.=253.90 1-S' d. IS-1 Req'd.	15-23 to 15-56	43' - 48" Storm Sewer Pipe Req'd. (14' Cover) Silt-Tight Joint Type Req'd. Inv(In)241.33 Inv(Out)241.0 Excavate 4' below bottom of storm sewer pipe and backfill with bedding Material Aggregate *25 or 26 15 Tons Bedding Material Aggregate *25 or 26
15-06	8.9 Lin. Ft. S' d. MH-1 or 2 Req'd. 1 S' d. MH-1 Frame and Cover Req'd. Prop. Top=257.26 Inv.=247.70 1-S' d. IS-1 Req'd.	15-14	1-S' d. DI-2EE Req'd. L=8' H=13.2' Inv.=236.50 Top=249.73 Type A Nose Req'd. 1-S' d. IS-1 Req'd. Connect UD-4 to DI	15-19 to 15-20	90' - 48" Storm Sewer Pipe Req'd. (15' Cover) Silt-Tight Joint Type Req'd. Inv(In)253.90 Inv(Out)253.45 Excavate 4' below bottom of storm sewer pipe and back fill with bedding material Aggregate *25 or 26 31 Tons Bedding Material Aggregate *25 or 26	15-24	1-S' d. DI-10K (Precast) Req'd. L=8' H=5.8' Inv.=239.93 Top=245.73 Type III Req'd. 1-S' d. IS-1 Req'd. Connect UD-4 to DI
15-06 to 15-08	217' - 36" Storm Sewer Pipe Req'd. (17' Cover) Silt-Tight Joint Type Req'd. Inv(In)247.70 Inv(Out)246.00 Excavate 4' below bottom of storm sewer pipe and backfill with bedding Material Aggregate *25 or 26 57 Tons Bedding Material Aggregate *25 or 26	15-14 to 15-15	25' - 36" Storm Sewer Pipe Req'd. (13' Cover) Silt-Tight Joint Type Req'd. Inv(In)236.50 Inv(Out)236.30 Excavate 4' below bottom of storm sewer pipe and backfill with bedding Material Aggregate *25 or 26 7 Tons Bedding Material Aggregate *25 or 26	15-20	7.6 Lin. Ft. S' d. MH-1 or 2 Req'd. 1 S' d. MH-1 Frame and Cover Req'd. Prop. Top=260.88 Inv.=252.60 1-S' d. IS-1 Req'd. Connect UD-4 to MH	15-24 to 15-48	43' - 24" Storm Sewer Pipe Req'd. (7' Cover) Silt-Tight Joint Type Req'd. Inv(In)239.93 Inv(Out)239.09
15-07	1-S' d. DI-10K Req'd. L=14' H=5.0' Inv.=246.50 Top=251.46 Type III Req'd. Connect UD-4 to DI	15-15	12.2 Lin. Ft. Modified MH-2 with 84" Base Req'd. 1 S' d. MH-1 Frame and Cover Req'd. Prop. Top=243.84 Inv.=231.00 1-S' d. IS-1 Req'd.				
15-07 to 15-08	7' - 24" Storm Sewer Pipe Req'd. (4' Cover) Silt-Tight Joint Type Req'd. Inv(In)246.50 Inv(Out)246.30						
15-08	9.7 Lin. Ft. S' d. MH-1 or 2 Req'd. 1 S' d. MH-1 Frame and Cover Req'd. Prop. Top=252.01 Inv.=241.60 1-S' d. IS-1 Req'd.						

NOVA DISTRICT

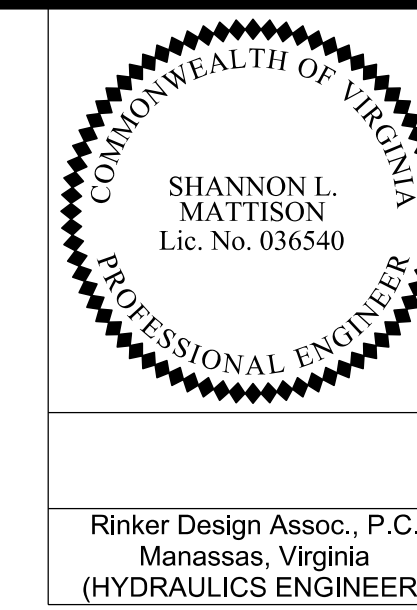
10/26/2022

VDOT PROJECT NO. 0495-029-419	SHEET NO. 2K AREA 4
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APPROVED FOR CONSTRUCTION

PROJECT MANAGER_VDOT - Rupal Shah, P.E. (703) 259-2362
SURVEYED BY, DATE_RDA - Nicholas Kougall's, L.S. (703) 334-0837, 12/2021
DESIGN BY_RDA - Darrell Fischer, P.E. (703) 334-0823
SUBSURFACE UTILITY BY, DATE_Accumark - Michael Taylor, L.S. (703) 635-3060, 12/2021

Drainage Descriptions



Rinker Design Assoc., P.C.
Manassas, Virginia
(HYDRAULICS ENGINEER)

REVISED	STATE		VDOT PROJECT NO.	SHEET NO.
	STATE	ROUTE		
	VA.	495	0495-029-419 C501 RW201	28(1) AREA 4

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

15-25	I-Modified DI-10L with Extended Base Req'd. L=10' H=9.8' Inv.=237.89 Top=247.71 Type III Req'd. I-St'd.IS-1 Req'd. Connect 2 UD-4 to DI Connect CD-2 to DI See Sheet 2F(2) - 2F(3) for Details	15-31 to 15-32	13' - 24" Storm Sewer Pipe Req'd.(8' Cover) Slit-Tight Joint Type Req'd. Inv(In)261.50 Inv(Out)261.40			
15-25 to 15-49	13' - 54" Storm Sewer Pipe Req'd.(6' Cover) Slit-Tight Joint Type Req'd. Inv(In)237.89 Inv(Out)237.82 Excavate 4' below bottom of storm sewer pipe and backfill with bedding Material Aggregate *25 or 26 6 Tons Bedding Material Aggregate *25 or 26	15-32	10J Lin.Ft.St'd.MH-1 or 2 Req'd. I St'd.MH-1 Frame and Cover Req'd. Prop.Top=268.82 Inv.=258.04 I-St'd.IS-1 Req'd. Connect to Existing 36" Concrete Pipe	15-41	I-St'd.DI-2B Req'd. L=8' H=8.0' Inv.=259.50 Top=267.45 Type A Nose Req'd. I-St'd.IS-1 Req'd. Connect UD-4 to DI	
15-26	I-St'd.DI-10K (Precast) Req'd. L=10' H=5.4' Inv.=243.35 Top=248.71 Type III Req'd.	15-32 to 15-50	414' - 36" Existing Concrete Pipe (8' Cover) Inv(In)258.04 Inv(Out)249.69 Repair Method B, Category A,B, or D Req'd.	15-41 to 15-42	148' - 15" Storm Sewer Pipe Req'd.(7' Cover) Slit-Tight Joint Type Req'd. Inv(In)259.50 Inv(Out)252.00	
15-26 to 15-27	20' - 24" Storm Sewer Pipe Req'd.(4' Cover) Slit-Tight Joint Type Req'd. Inv(In)243.35 Inv(Out)242.20	15-33	I-St'd.DI-10K Req'd. L=10' H=5.1' Inv.=253.50 Top=258.63 Type III Req'd. Connect 2 Modified UD-4 to DI	15-42	I-St'd.DI-2B Req'd. L=8' H=4.3' Inv.=251.90 Top=256.15 Type A Nose Req'd. I-St'd.IS-1 Req'd. Connect UD-4 to DI	
15-27	I-St'd.DI-10K (Precast) Req'd. L=4' H=10.4' Inv.=238.10 Top=248.47 Type III Req'd. I-St'd.IS-1 Req'd. Connect UD-4 to DI	15-33 to 15-50	7' - 24" Storm Sewer Pipe Req'd.(6' Cover) Slit-Tight Joint Type Req'd. Inv(In)253.50 Inv(Out)253.00	15-42 to 15-43	11' - 15" Storm Sewer Pipe Req'd.(3' Cover) Slit-Tight Joint Type Req'd. Inv(In)251.90 Inv(Out)251.50	
15-27 to 15-49	51' - 24" Storm Sewer Pipe Req'd.(9' Cover) Slit-Tight Joint Type Req'd. Inv(In)238.10 Inv(Out)237.82	15-34	I-St'd.DI-10K Req'd. L=6' H=5.3' Inv.=249.50 Top=254.79 Type III Req'd. Connect UD-4 to DI	15-43	I-St'd.ES-1 (15") Req'd. Inv.=251.50 1 CY EC-1 Class I Type A Installation Req'd.	
15-28	13.6 Lin.Ft.Modified MH-2 with 84" Base Req'd. I St'd.MH-1 Frame and Cover Req'd. Prop.Top=247.82 Inv.=233.60 I-St'd.IS-1 Req'd. Drop connection invert protection measure consisting of 6" of additional concrete base material provided below the invert	15-34 to 15-51	8' - 24" Storm Sewer Pipe Req'd.(6' Cover) Slit-Tight Joint Type Req'd. Inv(In)249.50 Inv(Out)249.10	15-43	I-St'd.ES-1 (15") Req'd. Inv.=251.50 1 CY EC-1 Class I Type A Installation Req'd.	
15-28 to 16-15	272' - 54" Storm Sewer Pipe Req'd.(10' Cover) Slit-Tight Joint Type Req'd. Inv(In)233.60 Inv(Out)232.20 Excavate 4' below bottom of storm sewer pipe and backfill with bedding Material Aggregate *25 or 26 106 Tons Bedding Material Aggregate *25 or 26	15-35	Structure Number Not Assigned	15-44	42' - 15" Culvert Pipe Req'd.(3' Cover) Slit-Tight Joint Type Req'd. Inv(In)247.66 Inv(Out)247.50 2-St'd.ES-1 (15") Req'd.	
15-29	I-St'd.DI-5 Type I Grate Req'd. St'd.PG-2A Type E Cover H=5.0' Inv.=262.00 Top=266.98 0.2' Backup Berm Req'd.	15-36	I-St'd.DI-10K Req'd. L=10' H=5.5' Inv.=240.20 Top=245.69 Type III Req'd. Connect 2 Modified UD-4 to DI Connect CD-1 to DI	15-45	I-St'd.DI-3B Req'd. L=8' H=4.5' Inv.=238.20 Top=242.68 Type B Nose Req'd. Connect UD-4 to DI	
15-29 to 15-30	11' - 24" Storm Sewer Pipe Req'd.(4' Cover) Slit-Tight Joint Type Req'd. Inv(In)262.00 Inv(Out)261.90	15-36 to 15-52	39' - 24" Storm Sewer Pipe Req'd.(7' Cover) Slit-Tight Joint Type Req'd. Inv(In)240.20 Inv(Out)240.00	15-45 to 15-46	7' - 15" Storm Sewer Pipe Req'd.(3' Cover) Slit-Tight Joint Type Req'd. Inv(In)238.20 Inv(Out)238.10	
15-30	I-St'd.DI-10H Req'd. L=6' H=6.5' Inv.=261.80 Top=268.25 Type I Req'd. I-St'd.IS-1 Req'd. Connect UD-4 to DI	15-37	Structure Number Not Assigned	15-46	I-St'd.ES-1 (15") Req'd. Inv.=238.10 1 CY EC-1 Class A Type A Installation Req'd.	
15-30 to 15-31	32' - 24" Storm Sewer Pipe Req'd.(15' Cover) Slit-Tight Joint Type Req'd. Inv(In)261.80 Inv(Out)261.60	15-38	I-St'd.DI-3B Req'd. L=6' H=5.2' Inv.=281.50 Top=286.74 Type B Nose Req'd.	15-47	I-Modified DI-10K with Extended Base Req'd. L=8' H=7.2' Inv.=240.67 Top=247.86 Type III Req'd. I-St'd.IS-1 Req'd. Connect UD-4 to DI See Sheet 2F(2) - 2F(3) for Details	
15-31	I-St'd.DI-10K Req'd. L=10' H=6.1' Inv.=261.50 Top=267.60 Type III Req'd. I-St'd.IS-1 Req'd. Connect UD-4 to DI	15-38 to 15-39	41' - 15" Storm Sewer Pipe Req'd.(4' Cover) Slit-Tight Joint Type Req'd. Inv(In)281.50 Inv(Out)279.00	15-47 to 15-25	26' - 48" Storm Sewer Pipe Req'd.(4' Cover) Slit-Tight Joint Type Req'd. Inv(In)240.67 Inv(Out)240.52 Excavate 4' below bottom of storm sewer pipe and backfill with bedding Material Aggregate *25 or 26 9 Tons Bedding Material Aggregate *25 or 26	
		15-39	I-St'd.DI-3A Req'd. H=5.1' Inv.=278.00 Top=283.10 Type B Nose Req'd. I-St'd.IS-1 Req'd.	15-48	I-St'd.DI-10K (Precast) Req'd. L=6' H=9.2' Inv.=238.90 Top=248.10 Type III Req'd. I-St'd.IS-1 Req'd. Connect UD-4 to DI	
		15-40	I-St'd.DI-2B Req'd. L=8' H=6.8' Inv.=269.00 Top=275.77 Type A Nose Req'd. I-St'd.IS-1 Req'd. Connect UD-4 to DI	15-48 to 15-27	23' - 24" Storm Sewer Pipe Req'd.(8' Cover) Slit-Tight Joint Type Req'd. Inv(In)238.90 Inv(Out)238.20	
		15-40 to 15-41	197' - 15" Storm Sewer Pipe Req'd.(16' Cover) Slit-Tight Joint Type Req'd. Inv(In)269.00 Inv(Out)263.20			
					15-49	9.7 Lin.Ft.Modified MH-2 with 84" Base Req'd. I St'd.MH-1 Frame and Cover Req'd. Prop.Top=248.09 Inv.=237.72 I-St'd.IS-1 Req'd.
					15-49 to 15-28	7' - 54" Storm Sewer Pipe Req'd.(6' Cover) Slit-Tight Joint Type Req'd. Inv(In)237.72 Inv(Out)237.69 Excavate 4' below bottom of storm sewer pipe and backfill with bedding Material Aggregate *25 or 26 3 Tons Bedding Material Aggregate *25 or 26
					15-50	11.0 Lin.Ft.St'd.MH-1 or 2 Req'd. I St'd.MH-1 Frame and Cover Req'd. Prop.Top=258.96 Inv.=247.30 I-St'd.IS-1 Req'd. Connect to Existing 36" Concrete Pipe
					15-50 to 15-51	122' - 36" Storm Sewer Pipe Req'd.(9' Cover) Slit-Tight Joint Type Req'd. Inv(In)247.30 Inv(Out)246.10 Excavate 4' below bottom of storm sewer pipe and backfill with bedding Material Aggregate *25 or 26 32 Tons Bedding Material Aggregate *25 or 26
					15-51	12.9 Lin.Ft.St'd.MH-1 or 2 Req'd. I St'd.MH-1 Frame and Cover Req'd. Prop.Top=255.08 Inv.=241.50 I-St'd.IS-1 Req'd.
					15-51 to 15-52	278' - 36" Storm Sewer Pipe Req'd.(11' Cover) Slit-Tight Joint Type Req'd. Inv(In)241.50 Inv(Out)239.00 Excavate 4' below bottom of storm sewer pipe and backfill with bedding Material Aggregate *25 or 26 73 Tons Bedding Material Aggregate *25 or 26
					15-52	9.3 Lin.Ft.St'd.MH-1 or 2 Req'd. I St'd.MH-1 Frame and Cover Req'd. Prop.Top=246.01 Inv.=236.00 I-St'd.IS-1 Req'd. Connect 2 UD-4 to MH
					15-52 to 16-22	161' - 36" Storm Sewer Pipe Req'd.(7' Cover) Slit-Tight Joint Type Req'd. Inv(In)236.00 Inv(Out)235.00 Excavate 4' below bottom of storm sewer pipe and backfill with bedding Material Aggregate *25 or 26 42 Tons Bedding Material Aggregate *25 or 26
					15-53	I-St'd.DI-10K (Precast) Req'd. L=4' H=4.9' Inv.=240.50 Top=245.43 Type III Req'd. Connect UD-4 to DI Connect CD-2 to DI

	VDOT PROJECT NO. 0495-029-419	SHEET NO. 28(1) AREA 4
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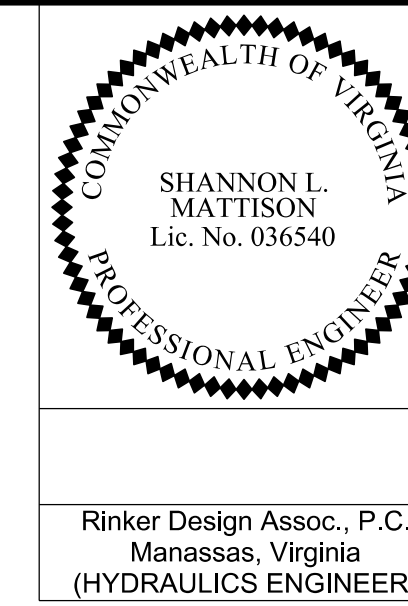
APPROVED FOR CONSTRUCTION

NOVA DISTRICT

10/26/2022

PROJECT MANAGER VDOT - *Ritupal Shah, P.E. (703) 259-2362*
 SURVEYED BY, DATE RDA - *Nicholas Kaugaulis, L.S. (703) 334-0837, 12/2021*
 DESIGN BY RDA - *Darrell Fischer, P.E. (703) 334-0823*
Dewberry - Ron Jakomilich, P.E. (703) 849-0651
 SUBSURFACE UTILITY BY, DATE *Accumark - Michael Taylor, L.S. (703) 635-3060, 12/2021*

Drainage Descriptions



Rinker Design Assoc., P.C.
 Manassas, Virginia
 (HYDRAULICS ENGINEER)

REVISED	STATE		VDOT PROJECT NO.	SHEET NO.
	STATE	ROUTE		
	VA.	495	0495-029-419 C501 RW201	2K12 AREA 4

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

15-53 to 15-24	23' - 24" Storm Sewer Pipe Req'd. (4' Cover) Slit-Tight Joint Type Req'd. Inv(In)240.50 Inv(Out)240.00	16-04 to 16-07	31' - 15" Storm Sewer Pipe Req'd. (5' Cover) Slit-Tight Joint Type Req'd. Inv(In)218.00 Inv(Out)217.00		
15-54	1-S' d. DI-2B Req'd. L=6' H=4.9' Inv.=276.00 Top=280.92 Type A Nose Req'd. 1-S' d. IS-1 Req'd. Connect UD-4 to DI	16-05	1-S' d. DI-2B Req'd. L=6' H=4.8' Inv.=219.00 Top=223.84 Type A Nose Req'd.		
15-54 to 15-40	196' - 15" Storm Sewer Pipe Req'd. (16' Cover) Slit-Tight Joint Type Req'd. Inv(In)276.00 Inv(Out)269.10	16-05 to 16-07	16' - 15" Storm Sewer Pipe Req'd. (4' Cover) Slit-Tight Joint Type Req'd. Inv(In)219.00 Inv(Out)218.50	16-10 to EX043	Existing Pipe To Be Extended with 10' - 72" Corrugated Metal Pipe (5' Cover) Slit-Tight Joint Type Req'd. Inv(In)178.52 Inv(Out)178.36 Repair Method B, Category A, B, C, or D Req'd. Excavate 4" below bottom of storm sewer pipe and backfill with bedding Material Aggregate *25 or 26 6 Tons Bedding Material Aggregate *25 or 26
15-55	1-Modified DI-10K with Extended Base Req'd. L=16' H=9.8' Inv.=242.05 Top=251.80 Type III Req'd. 1-S' d. IS-1 Req'd. Connect UD-4 to DI See Sheet 2F(2) - 2F(3) for Details	16-06	25.6 Lin. Ft. Modified MH-2 with 84" Base (Precast) Req'd. 1 S' d. MH-1 Frame and Cover Req'd. Prop. Top=234.29 Inv.=208.00 1-S' d. IS-1 Req'd. 1-S' d. SL-1 Req'd. Drop connection invert protection measure consisting of 6' of additional concrete base material provided below the invert Connect CD-1 to MH Connect UD-4 to MH	16-11	1-S' d. DI-5 Type III Grate Req'd. S' d. PG-2A Type E Cover H=12.9' Inv.=229.60 Top=242.47 1-S' d. SL-1 Req'd. 0' Backup Berm Req'd.
15-55 to 15-23	112' - 48" Storm Sewer Pipe Req'd. (16' Cover) Slit-Tight Joint Type Req'd. Inv(In)242.05 Inv(Out)241.43 Excavate 4" below bottom of storm sewer pipe and backfill with bedding Material Aggregate *25 or 26 39 Tons Bedding Material Aggregate *25 or 26	16-06 to 16-07	14' - 60" Storm Sewer Pipe Req'd. (21' Cover) Slit-Tight Joint Type Req'd. Inv(In)208.00 Inv(Out)207.93 Excavate 4" below bottom of storm sewer pipe and back fill with bedding material Aggregate *25 or 26 6 Tons Bedding Material Aggregate *25 or 26	16-11 to 16-12	35' - 24" Storm Sewer Pipe Req'd. (11' Cover) Slit-Tight Joint Type Req'd. Inv(In)229.60 Inv(Out)228.10
15-56	1-Modified DI-10K with Extended Base Req'd. L=8' H=7.5' Inv.=241.00 Top=248.47 Type III Req'd. 1-S' d. IS-1 Req'd. Connect UD-4 to DI See Sheet 2F(2) - 2F(3) for Details	16-07	37.7 Lin. Ft. Modified MH-2 with 84" Base (Precast) Req'd. 1 S' d. MH-1 Frame and Cover Req'd. Prop. Top=223.35 Inv.=185.00 1-S' d. IS-1 Req'd. 1-S' d. SL-1 Req'd. Drop connection invert protection measure consisting of 6' of additional concrete base material provided below the invert	16-12	1-S' d. DI-10K (Precast) Req'd. L=8' H=12.1' Inv.=228.00 Top=240.12 Type III Req'd. 1-S' d. IS-1 Req'd. 1-S' d. SL-1 Req'd. Connect UD-4 to DI
15-56 to 15-47	41' - 48" Storm Sewer Pipe Req'd. (4' Cover) Slit-Tight Joint Type Req'd. Inv(In)241.00 Inv(Out)240.77 Excavate 4" below bottom of storm sewer pipe and backfill with bedding Material Aggregate *25 or 26 15 Tons Bedding Material Aggregate *25 or 26	16-07 to 16-08	14' - 60" Storm Sewer Pipe Req'd. (33' Cover) Slit-Tight Joint Type Req'd. Inv(In)185.00 Inv(Out)184.94 Excavate 4" below bottom of storm sewer pipe and back fill with bedding material Aggregate *25 or 26 7 Tons Bedding Material Aggregate *25 or 26	16-12 to 15-17	70' - 24" Storm Sewer Pipe Req'd. (12' Cover) Slit-Tight Joint Type Req'd. Inv(In)228.00 Inv(Out)227.50
Sheet 16				16-13	1-S' d. DI-10K (Precast) Req'd. L=10' H=4.6' Inv.=241.41 Top=246.03 Type III Req'd. Connect UD-4 to DI
16-01	1-S' d. DI-10K (Precast) Req'd. L=14' H=5.1' Inv.=223.00 Top=228.06 Type III Req'd. Connect UD-4 to DI	16-08	12.0 Lin. Ft. Modified MH-2 with 84" Base Req'd. 1 S' d. MH-1 Frame and Cover Req'd. Prop. Top=196.25 Inv.=183.62 1-S' d. SL-1 Req'd. 1-S' d. IS-1 Req'd.	16-13 to 16-14	48' - 24" Storm Sewer Pipe Req'd. (13' Cover) Slit-Tight Joint Type Req'd. Inv(In)241.41 Inv(Out)240.64
16-01 to 16-02	268' - 24" Storm Sewer Pipe Req'd. (10' Cover) Slit-Tight Joint Type Req'd. Inv(In)223.00 Inv(Out)221.60	16-08 to 16-09	36' - 60" Storm Sewer Pipe Req'd. (5' Cover) Slit-Tight Joint Type Req'd. Inv(In)183.62 Inv(Out)183.44 Excavate 4" below bottom of storm sewer pipe and back fill with bedding material Aggregate *25 or 26 16 Tons Bedding Material Aggregate *25 or 26	16-14 to 15-24	32' - 24" Storm Sewer Pipe Req'd. (4' Cover) Slit-Tight Joint Type Req'd. Inv(In)240.54 Inv(Out)240.03
16-02	1-S' d. DI-10K (Precast) Req'd. L=16' H=12.2' Inv.=221.50 Top=233.74 Type III Req'd. 1-S' d. IS-1 Req'd. 1-S' d. SL-1 Req'd.	16-09	1-S' d. ES-1 (60") Req'd. Inv.=183.44 80.6 CY S' d. EC-1 Class Type B Installation I Req'd.	16-15	1-Modified DI-10K with Extended Base Req'd. L=20' H=9.9' Inv.=230.30 Top=240.24 Type III Req'd. 1-S' d. IS-1 Req'd. Connect UD-4 to DI See Sheet 2F(2) - 2F(3) for Details
16-02 to 16-06	17' - 24" Storm Sewer Pipe Req'd. (11' Cover) Slit-Tight Joint Type Req'd. Inv(In)221.50 Inv(Out)221.20	16-10	1-Mod. EW-2S (72") Req'd. Inv.=178.52 See Sheet 2F(5) for Details	16-15 to 16-16	53' - 54" Storm Sewer Pipe Req'd. (15' Cover) Slit-Tight Joint Type Req'd. Inv(In)230.30 Inv(Out)230.03 Excavate 4" below bottom of storm sewer pipe and backfill with bedding Material Aggregate *25 or 26 21 Tons Bedding Material Aggregate *25 or 26
16-03	1-S' d. DI-2B Req'd. L=6' H=4.7' Inv.=218.80 Top=223.49 Type A Nose Req'd.			16-18 to 17-05	291' - 54" Storm Sewer Pipe Req'd. (11' Cover) Slit-Tight Joint Type Req'd. Inv(In)209.42 Inv(Out)207.95 Excavate 4" below bottom of storm sewer pipe and backfill with bedding Material Aggregate *25 or 26 114 Tons Bedding Material Aggregate *25 or 26
16-03 to 16-04	30' - 15" Storm Sewer Pipe Req'd. (4' Cover) Slit-Tight Joint Type Req'd. Inv(In)218.80 Inv(Out)218.10			16-19	1-S' d. ES-1 (15") Req'd. Inv.=234.30
16-04	1-S' d. DI-2A Req'd. H=5.2' Inv.=218.00 Top=223.15 Type A Nose Req'd. 1-S' d. IS-1 Req'd.			16-19 to 16-20	33' - 15" Storm Sewer Pipe Req'd. (13' Cover) Slit-Tight Joint Type Req'd. Inv(In)234.30 Inv(Out)233.10
				16-20	8.4 Lin. Ft. S' d. MH-1 or 2 Req'd. 1 S' d. MH-1 Frame and Cover Req'd. Prop. Top=237.68 Inv.=228.60 1-S' d. IS-1 Req'd.
				16-20 to 16-21	55' - 15" Storm Sewer Pipe Req'd. (11' Cover) Slit-Tight Joint Type Req'd. Inv(In)228.60 Inv(Out)227.28

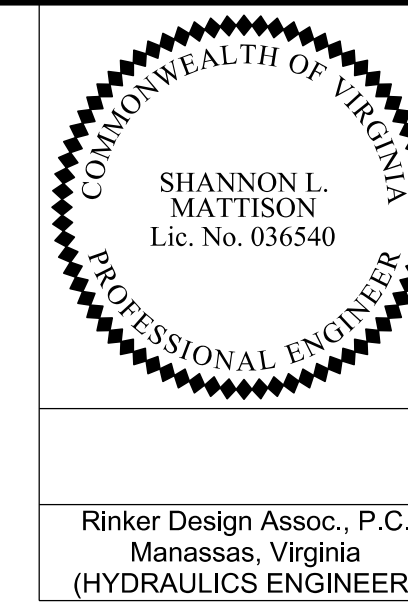
	VDOT PROJECT NO. 0495-029-419	SHEET NO. 2K12 AREA 4
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APPROVED FOR CONSTRUCTION

NOVA DISTRICT

PROJECT MANAGER VDOT - Rupal Shah, PE, (703) 259-2362
SURVEYED BY, DATE RDA - Nicholas Kaugaulis, LS, (703) 334-0837, 12/2021
DESIGN BY RDA - Darrell Fischer, PE, (703) 334-0823
SUBSURFACE UTILITY BY, DATE Accurmark - Michael Taylor, LS, (703) 635-3060, 12/2021

Drainage Descriptions



Rinker Design Assoc., P.C. Manassas, Virginia (HYDRAULICS ENGINEER)

Table with columns: REVISED, STATE, ROUTE, STATE, VDOT PROJECT NO., SHEET NO. Values include VA, 495, 0495-029-419 C501 RW201, 2K13, AREA 4

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

Main drainage descriptions table with columns: Stationing, Description, Stationing, Description, Stationing, Description, Stationing, Description. Includes details like pipe sizes, depths, bedding, and invert heights.

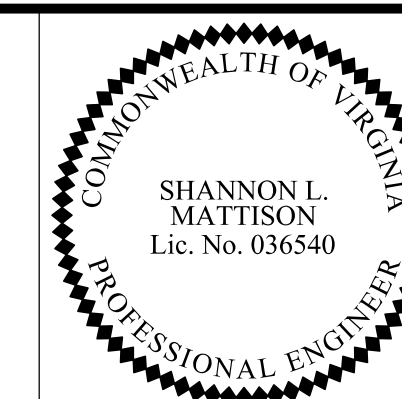
NOVA DISTRICT

10/26/2022

APPROVED FOR CONSTRUCTION

VDOT PROJECT NO. 0495-029-419 SHEET NO. 2K13 AREA 4

PROJECT MANAGER_VDOT - Rupal Shah, PE, (703) 259-2362 SURVEYED BY, DATE_RDA - Nicholas Kaugall's, LS, (703) 334-0837, 12/2021 DESIGN BY_RDA - Darrell Fischer, PE, (703) 334-0823 SUBSURFACE UTILITY BY, DATE_Accumark - Michael Taylor, LS, (703) 635-3060, 12/2021



Rinker Design Assoc., P.C. Manassas, Virginia (HYDRAULICS ENGINEER)

Drainage Descriptions

REVISED	STATE	ROUTE	STATE	VDOT PROJECT NO.	SHEET NO.
	VA.	495		0495-029-419 C501 RW201	2K(4) AREA 4

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

17-14 to 17-15	40' - 60" Storm Sewer Pipe Req'd. (17' Cover) Slit-Tight Joint Type Req'd. Inv(In)183.08 Inv(Out)183.00 Excavate 4' below bottom of storm sewer pipe and backfill with bedding Material Aggregate *25 or 26 18 Tons Bedding Material Aggregate *25 or 26	17-20 to 17-21	27' - 24" Concrete Pipe Req'd. (16' Cover) Slit-Tight Joint Type Req'd. Inv(In)173.00 Inv(Out)172.75				
17-15	1-S' d. ES-1 (60") Req'd. Inv.=183.00 34 CY EC-I Class I Type B Installation Req'd.	17-21	18.02' Modified SWM-1 (Precast) Req'd. Top of Riser+184.00, Bottom of Riser+169.65 1.4H'x1.8'W Orifice (Two Openings) Req'd., Inv.+181.60 24" Concrete Pipe Connection Req'd., Inv.+172.75 Inv. Out.+172.65 1-S' d. IS-1 Req'd. 6' DIA x 3' H Concrete Footing Slab Req'd. See Sheet 2M(8) - 2M(11) for Details	17-26 to 17-27	86' - 24" Storm Sewer Pipe Req'd. (9' Cover) Slit-Tight Joint Type Req'd. Inv(In)209.00 Inv(Out)208.70	17-31 to 17-71	10' - 24" Storm Sewer Pipe Req'd. (6' Cover) Slit-Tight Joint Type Req'd. Inv(In)209.00 Inv(Out)208.70
17-16	17.2 Lin. Ft. Modified MH-2 with 84" Base Req'd. 1-S' d. MH-1 Frame and Cover Req'd. Prop. Top+190.50 Inv.=172.10 1-S' d. IS-1 Req'd. 1-S' d. SL-1 Req'd. Connect to Existing 60" CMP	17-21 to 17-22	38' - 36" Concrete Pipe Req'd. (17' Cover) Leak Resistant Joint Type Req'd. Inv(In)172.65 Inv(Out)172.00 38" Concrete Cradle Pipe-Spec. Section 232 (AASHTO M170) Gasket- Spec. Section 212 (ASTM C443)	17-27	1-Mod. DI-2BB with 48" Base Req'd. L-4' H+13.0' Inv.+213.00 Top+226.00 Type A Nose Req'd. Concrete gutter and grate elevation at curb line to be one inch below normal shoulder elevation Structure to be cast-in-place 1-S' d. SL-1 Req'd. 1-S' d. IS-1 Req'd. Connect UD-4 to DI	17-32	1-S' d. DI-10L (Precast) Req'd. L-8' H+7.5' Inv.+209.00 Top+216.49 Type III Req'd. 1-S' d. IS-1 Req'd. Connect 2 UD-4 to DI Connect CD-2 to DI
17-16 to 17-18	184' - 60" Storm Sewer Pipe Req'd. (14' Cover) Slit-Tight Joint Type Req'd. Inv(In)172.10 Inv(Out)171.10 Excavate 4' below bottom of storm sewer pipe and backfill with bedding Material Aggregate *25 or 26 81 Tons Bedding Material Aggregate *25 or 26	17-22	30.5 Lin. Ft. Modified MH-2 with 96" Base (Precast) Req'd. 1-S' d. MH-1 Frame and Cover Req'd. Prop. Top+194.90 Inv.=163.77 1-S' d. IS-1 Req'd. 2-S' d. SL-1 Req'd. Drop connection Invert protection measure consisting of 6" of additional concrete base material provided below the Invert	17-27 to 17-29	145' - 24" Storm Sewer Pipe Req'd. (11' Cover) Slit-Tight Joint Type Req'd. Inv(In)213.00 Inv(Out)210.10	17-32 to 17-71	19' - 24" Storm Sewer Pipe Req'd. (6' Cover) Slit-Tight Joint Type Req'd. Inv(In)209.00 Inv(Out)208.70
17-17	14.8 Lin. Ft. S' d. MH-1 or 2 Req'd. 1-S' d. MH-1 Frame and Cover Req'd. Prop. Top+211.00 Inv.=195.50 1-S' d. IS-1 Req'd. 1-S' d. SL-1 Req'd.	17-22 to EX041	Existing Pipe To Be Extended with 8' - 60" Corrugated Metal Pipe (29' Cover) Slit-Tight Joint Type Req'd. Inv(In)163.77 Inv(Out)163.52 Excavate 4' below bottom of storm sewer pipe and backfill with bedding Material Aggregate *25 or 26 5 Tons Bedding Material Aggregate *25 or 26	17-28	1-Mod. DI-2EE with Modified Base (Precast) Req'd. L-8' H+25.3' Inv.+189.55 Top+214.82 Type A Nose Req'd. Concrete gutter and grate elevation at curb line to be one inch below normal shoulder elevation Structure to be cast-in-place only 1-S' d. SL-1 Req'd. 1-S' d. IS-1 Req'd. Drop connection Invert protection measure consisting of 6" of additional concrete base material provided below the Invert Connect UD-4 to DI See Sheet 2F(4) for Details	17-33 to 17-39	27' - 24" Storm Sewer Pipe Req'd. (7' Cover) Slit-Tight Joint Type Req'd. Inv(In)207.90 Inv(Out)207.75
17-17 to 17L-05	110' - 24" Storm Sewer Pipe Req'd. (13' Cover) Slit-Tight Joint Type Req'd. Inv(In)195.50 Inv(Out)194.00	17-23	1-S' d. DI-10K Req'd. L-16' H+5.6' Inv.+246.00 Top+251.58 Type III Req'd.	17-28 to 17-14	73' - 54" Storm Sewer Pipe Req'd. (19' Cover) Slit-Tight Joint Type Req'd. Inv(In)189.55 Inv(Out)189.19 Excavate 4' below bottom of storm sewer pipe and backfill with bedding Material Aggregate *25 or 26 29 Tons Bedding Material Aggregate *25 or 26	17-34 to 17-36	28' - 24" Storm Sewer Pipe Req'd. (4' Cover) Slit-Tight Joint Type Req'd. Inv(In)211.50 Inv(Out)210.40
17-18	18.4 Lin. Ft. Modified MH-2 with 84" Base Req'd. 1-S' d. MH-1 Frame and Cover Req'd. Prop. Top+190.00 Inv.=170.92 1-S' d. IS-1 Req'd. 1-S' d. SL-1 Req'd.	17-23 to 17-24	29' - 24" Storm Sewer Pipe Req'd. (10' Cover) Slit-Tight Joint Type Req'd. Inv(In)246.00 Inv(Out)245.40	17-29	7.6 Lin. Ft. S' d. MH-1 or 2 Req'd. 1-S' d. MH-1 Frame and Cover Req'd. Prop. Top+217.22 Inv.=209.00 1-S' d. IS-1 Req'd. Connect 2 UD-4 to MH	17-35	1-S' d. DI-10K (Precast) Req'd. L-8' H+5.6' Inv.+213.70 Top+219.26 Type III Req'd. 1-S' d. IS-1 Req'd. Connect UD-4 to DI
17-18 to 17-19	102' - 60" Storm Sewer Pipe Req'd. (14' Cover) Slit-Tight Joint Type Req'd. Inv(In)170.92 Inv(Out)170.40 Excavate 4' below bottom of storm sewer pipe and backfill with bedding Material Aggregate *25 or 26 45 Tons Bedding Material Aggregate *25 or 26	17-24	1-S' d. DI-10K Req'd. L-12' H+9.3' Inv.+245.30 Top+254.59 Type III Req'd. 1-S' d. IS-1 Req'd. Connect 2 UD-4 to DI	17-29 to 17-54	125' - 24" Storm Sewer Pipe Req'd. (6' Cover) Slit-Tight Joint Type Req'd. Inv(In)209.00 Inv(Out)207.60	17-35 to 17-64	99' - 24" Conc. Pipe Class III Req'd. (3' Cover) (552' Radius with open joints - using 8' pipe joint lengths) Joints are to be opened a maximum of 25% of spigot or tongue length Slit-Tight Joint Type Req'd. Inv(In)213.70 Inv(Out)212.32
17-19	24.3 Lin. Ft. Modified MH-2 with 84" Base (Precast) Req'd. 1-S' d. MH-1 Frame and Cover Req'd. Prop. Top+189.50 Inv.=164.50 1-S' d. IS-1 Req'd. 1-S' d. SL-1 Req'd. Drop connection Invert protection measure consisting of 6" of additional concrete base material provided below the Invert	17-24 to 17-25	25' - 24" Storm Sewer Pipe Req'd. (8' Cover) Slit-Tight Joint Type Req'd. Inv(In)245.30 Inv(Out)245.10	17-30	1-S' d. DI-2B Req'd. L-8' H+4.3' Inv.+213.00 Top+217.28 Concrete gutter and grate elevation at curb line to be one inch below normal shoulder elevation Structure to be cast-in-place Type A Nose Req'd. Connect UD-4 to DI	17-36	1-S' d. DI-10K Req'd. L-4' H+5.5' Inv.+210.30 Top+215.81 Type III Req'd. 1-S' d. IS-1 Req'd. Connect UD-4 to DI
17-19 to 17-22	112' - 60" Storm Sewer Pipe Req'd. (23' Cover) Slit-Tight Joint Type Req'd. Inv(In)164.50 Inv(Out)163.90 Excavate 4' below bottom of storm sewer pipe and backfill with bedding Material Aggregate *25 or 26 50 Tons Bedding Material Aggregate *25 or 26	17-25 to 17-26	275' - 24" Conc. Pipe Class III Req'd. (7' Cover) (361' Radius with open joints - using 8' pipe joint lengths) Joints are to be opened a maximum of 25% of spigot or tongue length Slit-Tight Joint Type Req'd. Inv(In)245.00 Inv(Out)228.60	17-30 to 17-09	39' - 24" Storm Sewer Pipe Req'd. (14' Cover) Slit-Tight Joint Type Req'd. Inv(In)213.00 Inv(Out)212.60	17-36 to 17-37	102' - 24" Storm Sewer Pipe Req'd. (4' Cover) Slit-Tight Joint Type Req'd. Inv(In)210.30 Inv(Out)209.60
17-20	1-S' d. EW-1 (24") Req'd. with attached BMP Plate 5.25" Water Quality Orifice Req'd., Inv.+173.00 Inv.=173.00 See Detail Sheet 2M(11)	17-26	1-Mod. DI-2BB with 48" Base Req'd. L-12' H+16.8' Inv.+217.50 Top+234.34 Type A Nose Req'd. Concrete gutter and grate elevation at curb line to be one inch below normal shoulder elevation Structure to be cast-in-place 1-S' d. SL-1 Req'd. 1-S' d. IS-1 Req'd. Connect UD-4 to DI	17-31	1-S' d. DI-5 Type I Grate Req'd. S' d. PG-2A Type B3 Cover H-4.8' Inv.+209.00 Top+213.80 Connect Modified UD-4 to DI	17-37 to 17-38	75' - 24" Storm Sewer Pipe Req'd. (4' Cover) Slit-Tight Joint Type Req'd. Inv(In)209.50 Inv(Out)209.10

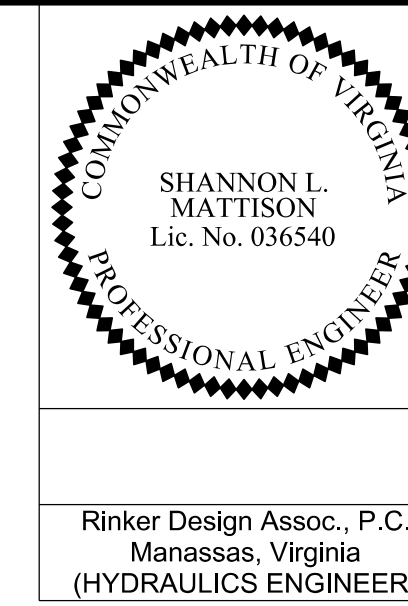
NOVA DISTRICT

10/26/2022

APPROVED FOR CONSTRUCTION

PROJECT MANAGER VDOT - *Ritupal Shah, PE, (703) 259-2362*
 SURVEYED BY, DATE RDA - *Nicholas Kaugaulis, LS, (703) 334-0837, 12/2021*
 DESIGN BY RDA - *Darrell Fischer, PE, (703) 334-0823*
Dewberry - Ron Jakomilich, PE, (703) 849-0651
 SUBSURFACE UTILITY BY, DATE *Accumark - Michael Taylor, LS, (703) 635-3060, 12/2021*

Drainage Descriptions



Rinker Design Assoc., P.C.
 Manassas, Virginia
 (HYDRAULICS ENGINEER)

REVISED	STATE	ROUTE	STATE	VDOT PROJECT NO.	SHEET NO.
	VA.	495		0495-029-419 C501 RW201	2K(5) AREA 4

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

17-38	1-S' d. DI-10L (Precast) Req'd. L=6' H=6.2' Inv.=209.00 Top=215.16 Type III Req'd. 1-S' d. IS-1 Req'd. Connect 2 UD-4 to DI Connect CD-2 to DI	17-45	1-S' d. DI-10L (Precast) Req'd. L=6' H=9.4' Inv.=208.94 Top=218.31 Type III Req'd. 1-S' d. IS-1 Req'd. Connect 2 UD-4 to DI Connect CD-2 to DI		
17-38 to 17-39	62' - 24" Storm Sewer Pipe Req'd. (15' Cover) Slit-Tight Joint Type Req'd. Inv(In)209.00 Inv(Out)208.24	17-45 to 17-46	102' - 24" Storm Sewer Pipe Req'd. (10' Cover) Slit-Tight Joint Type Req'd. Inv(In)208.94 Inv(Out)207.00	17-52	1-S' d. DI-10K (Precast) Req'd. L=4' H=11.2' Inv.=206.30 Top=217.45 Type III Req'd. 1-S' d. IS-1 Req'd. Connect UD-4 to DI
17-39	1-S' d. DI-10K (Precast) Req'd. L=4' H=7.6' Inv.=207.65 Top=215.24 Type III Req'd. 1-S' d. IS-1 Req'd. Connect UD-4 to DI	17-46	1-S' d. DI-10K (Precast) Req'd. L=6' H=12.0' Inv.=206.60 Top=218.57 Type III Req'd. 1-S' d. IS-1 Req'd. Connect UD-4 to DI	17-52 to 17-53	10' - 24" Storm Sewer Pipe Req'd. (9' Cover) Slit-Tight Joint Type Req'd. Inv(In)206.30 Inv(Out)206.20
17-39 to 17-40	143' - 24" Conc. Pipe Class III Req'd. (7' Cover) (375' Radius with open joints - using 8' pipe joint lengths) Joints are to be opened a maximum of 25% of spigot or tongue length Slit-Tight Joint Type Req'd. Inv(In)207.65 Inv(Out)206.90	17-46 to 17-52	26' - 24" Storm Sewer Pipe Req'd. (10' Cover) Slit-Tight Joint Type Req'd. Inv(In)206.60 Inv(Out)206.40	17-53	1-S' d. DI-10L (Precast) Req'd. L=6' H=11.1' Inv.=206.10 Top=217.24 Type III Req'd. 1-S' d. IS-1 Req'd. Connect 2 UD-4 to DI Connect CD-2 to DI
17-40	1-S' d. DI-10K (Precast) Req'd. L=6' H=9.5' Inv.=206.80 Top=216.25 Type III Req'd. 1-S' d. IS-1 Req'd. Connect UD-4 to DI	17-47	1-S' d. DI-10K (Precast) Req'd. L=12' H=17.7' Inv.=210.73 Top=228.40 Type III Req'd. 1-S' d. SL-1 Req'd. Connect 2 UD-4 to DI	17-53 to 17-55	35' - 24" Storm Sewer Pipe Req'd. (9' Cover) Slit-Tight Joint Type Req'd. Inv(In)206.10 Inv(Out)205.60
17-40 to 17-46	16' - 24" Storm Sewer Pipe Req'd. (12' Cover) Slit-Tight Joint Type Req'd. Inv(In)206.80 Inv(Out)206.70	17-47 to 17-48	234' - 24" Conc. Pipe Class IV Req'd. (16' Cover) (488' Radius with open joints - using 8' pipe joint lengths) Joints are to be opened a maximum of 25% of spigot or tongue length Slit-Tight Joint Type Req'd. Inv(In)210.73 Inv(Out)209.26	17-54	1-S' d. DI-2B Req'd. L=10' H=8.4' Inv.=207.50 Top=215.87 Type A Nose Req'd. Structure to be cast-in-place Concrete gutter and grate elevation at curb line to be one inch below normal shoulder elevation 1-S' d. IS-1 Req'd. Connect UD-4 to DI
17-41	1-S' d. DI-5 Type I Grate Req'd. S' d. PG-2A Type E Cover H=6.3' Inv.=213.20 Top=219.46	17-48	1-S' d. DI-10K (Precast) Req'd. L=8' H=10.4' Inv.=209.16 Top=219.55 Type III Req'd. 1-S' d. IS-1 Req'd. Connect UD-4 to DI	17-54 to 17-55	50' - 24" Conc. Pipe Class III Req'd. (7' Cover) (401' Radius with open joints - using 8' pipe joint lengths) Joints are to be opened a maximum of 25% of spigot or tongue length Slit-Tight Joint Type Req'd. Inv(In)207.50 Inv(Out)207.00
17-41 to 17-42	6' - 24" Storm Sewer Pipe Req'd. (8' Cover) Slit-Tight Joint Type Req'd. Inv(In)213.20 Inv(Out)213.11	17-48 to 17-49	73' - 24" Storm Sewer Pipe Req'd. (8' Cover) Slit-Tight Joint Type Req'd. Inv(In)209.16 Inv(Out)208.24	17-55	1-S' d. DI-2FF Req'd. L=6' H=10.2' Inv.=205.45 Top=215.30 Concrete gutter and grate elevation at curb line to be one inch below normal shoulder elevation Structure to be cast-in-place Type A Nose Req'd. 1-S' d. IS-1 Req'd. Connect 2 UD-4 to DI Connect CD-2 to DI
17-42	6.7 Lin. Ft. S' d. MH-1 or 2 Req'd. 1 S' d. MH-1 Frame and Cover Req'd. Prop. Top=220.33 Inv.=213.01 1-S' d. IS-1 Req'd. Connect UD-4 to MH	17-49	1-S' d. DI-10K (Precast) Req'd. L=8' H=9.4' Inv.=208.14 Top=217.58 Type III Req'd. 1-S' d. IS-1 Req'd. Connect UD-4 to DI	17-55 to 17-60	53' - 36" Conc. Pipe Class III Req'd. (7' Cover) (287' Radius with open joints - using 8' pipe joint lengths) Joints are to be opened a maximum of 25% of spigot or tongue length Slit-Tight Joint Type Req'd. Inv(In)205.30 Inv(Out)205.00 Excavate 4" below bottom of storm sewer pipe and backfill with bedding Material Aggregate *25 or 26 14 Tons Bedding Material Aggregate *25 or 26
17-42 to 17-43	82' - 24" Storm Sewer Pipe Req'd. (6' Cover) Slit-Tight Joint Type Req'd. Inv(In)213.01 Inv(Out)211.97	17-49 to 17-53	62' - 24" Storm Sewer Pipe Req'd. (9' Cover) Slit-Tight Joint Type Req'd. Inv(In)208.14 Inv(Out)206.68	17-61	1-S' d. DI-10H Req'd. L=6' H=6.3' Inv.=214.29 Top=220.58 Type I Req'd. Connect UD-4 to DI
17-43	1-S' d. DI-10K (Precast) Req'd. L=6' H=7.5' Inv.=211.87 Top=219.39 Type III Req'd. 1-S' d. IS-1 Req'd. Connect UD-4 to DI	17-50	1-S' d. DI-10H Req'd. L=6' H=10.5' Inv.=207.40 Top(NB)=217.72 Top(SB)=217.88 Type II Req'd. Connect UD-4 to DI Connect Modified UD-4 to DI	17-61 to 17-62	28' - 24" Storm Sewer Pipe Req'd. (4' Cover) Slit-Tight Joint Type Req'd. Inv(In)214.29 Inv(Out)213.80
17-43 to 17-44	144' - 24" Storm Sewer Pipe Req'd. (7' Cover) Slit-Tight Joint Type Req'd. Inv(In)211.87 Inv(Out)209.71	17-50 to 17-51	42' - 24" Storm Sewer Pipe Req'd. (8' Cover) Slit-Tight Joint Type Req'd. Inv(In)207.40 Inv(Out)207.15	17-62	1-S' d. DI-5 Type I Grate Req'd. S' d. PG-2A Type E Cover H=6.1' Inv.=204.00 Top=210.07 Connect 2 UD-4 to DI 0.2' Backup Berm Req'd.
17-44	1-S' d. DI-10K (Precast) Req'd. L=4' H=8.6' Inv.=209.61 Top=218.17 Type III Req'd. 1-S' d. IS-1 Req'd. Connect UD-4 to DI	17-51	1-S' d. DI-10L Req'd. L=6' H=10.2' Inv.=207.05 Top=217.27 Type III Req'd. 1-S' d. IS-1 Req'd. Connect 2 UD-4 to DI Connect CD-2 to DI	17-62 to 17-74	53' - 24" Storm Sewer Pipe Req'd. (9' Cover) Slit-Tight Joint Type Req'd. Inv(In)204.00 Inv(Out)202.00
17-44 to 17-45	38' - 24" Storm Sewer Pipe Req'd. (7' Cover) Slit-Tight Joint Type Req'd. Inv(In)209.61 Inv(Out)209.04	17-51 to 17-52	45' - 24" Storm Sewer Pipe Req'd. (9' Cover) Slit-Tight Joint Type Req'd. Inv(In)207.05 Inv(Out)206.78	17-63	1-S' d. DI-10H Req'd. L=4' H=5.3' Inv.=213.63 Top=218.97 Type I Req'd. Connect UD-4 to DI
				17-63 to 17-64	28' - 24" Storm Sewer Pipe Req'd. (3' Cover) Slit-Tight Joint Type Req'd. Inv(In)213.63 Inv(Out)212.70

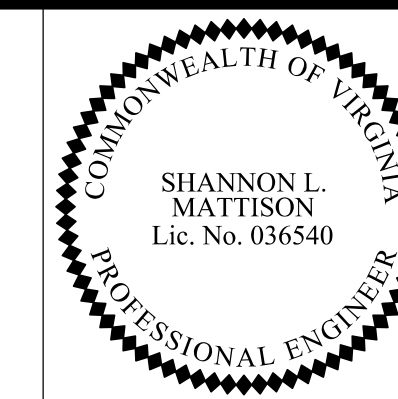
NOVA DISTRICT

APPROVED FOR CONSTRUCTION

VDOT PROJECT NO. 0495-029-419	SHEET NO. 2K(5) AREA 4
----------------------------------	------------------------------

PROJECT MANAGER VDOT - Rimpal Sabh PE, (703) 259-2362
SURVEYED BY, DATE RDA - Nicholas Koukoullis, LS, (703) 334-0837, 12/2021
DESIGN BY RDA - Darrell F. Ische, PE, (703) 334-0823
Dewberry - Ron Jakarini, PE, (703) 849-0651
SUBSURFACE UTILITY BY, DATE AccuTrack - Michael Taylor, LS, (703) 635-3060, 12/2021

Drainage Descriptions



Rinker Design Assoc., P.C.
Manassas, Virginia
(HYDRAULICS ENGINEER)

REVISED	STATE	ROUTE	STATE	VDOT PROJECT NO.	SHEET NO.
	VA	495		0495-029-419 C501 RW201	2K(6) AREA 4

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

17-64 I-St'd, DI-HOK (Precast) Req'd.
L=4' H=6.1' Inv.=211.60 Top=217.65
Type III Req'd.
I-St'd, IS-I Req'd.
Connect UD-4 to DI

17-71 7.3 Lin. Ft. St'd, MH-I or 2 Req'd.
I St'd, MH-I Frame and Cover Req'd.
Prop. Top=216.57
Inv.=208.60
I-St'd, IS-I Req'd.
Connect UD-4 to MH

17-64 to 17-36 172' - 24" Conc. Pipe Class III Req'd. (4' Cover)
(552' Radius with open joints - using 8' pipe joint lengths)
Joints are to be opened a maximum of 25% of spigot or tongue length
Silt-Tight Joint Type Req'd.
Inv(In)211.60 Inv(Out)210.40

17-71 to 17-33 40' - 24" Storm Sewer Pipe Req'd. (7' Cover)
Silt-Tight Joint Type Req'd.
Inv(In)208.60 Inv(Out)208.00

17L-08 I-St'd, ES-I (15') Req'd.
Inv.=228.50
1 CY EC-I Class A Type A Installation Req'd.

17-65 I-St'd, DI-HOH Req'd.
L=4' H=5.3' Inv.=211.30 Top=216.59
Type I Req'd.
Connect UD-4 to DI

17-72 I-St'd, ES-I (15') Req'd.
Inv.=189.00
12 CY St'd, EC-I Class A Req'd. Type A Installation

17L-09 I-St'd, DI-3E (No Gutter Pan) Req'd.
L=16' H=5.3' Inv.=225.05 Top=230.35
Type B Nose Req'd.
Connect to Existing 18" Concrete Pipe

17-65 to 17-32 74' - 24" Storm Sewer Pipe Req'd. (6' Cover)
Silt-Tight Joint Type Req'd.
Inv(In)211.30 Inv(Out)209.10

17-73 25' - 15" Culvert Pipe Req'd. (3' Cover)
Silt-Tight Joint Type Req'd.
Inv(In)215.20 Inv(Out)214.90

17L-10 I-St'd, DI-3E (No Gutter Pan) Req'd.
L=12' H=4.7' Inv.=228.10 Top=232.80
Type B Nose Req'd.

17-66 I-St'd, DI-HOK (Precast) Req'd.
L=6' H=5.4' Inv.=211.58 Top=217.00
Type III Req'd.
Connect UD-4 to DI

17-74 I-St'd, DI-5 Type III Gate (Precast) Req'd.
St'd, PG-2A Type E Cover
H=14.0' Inv.=195.00 Top=209.00
I-St'd, IS-I Req'd.
I-St'd, SL-I Req'd.
0.5' Backup Berm Req'd.

17L-10 to 17L-09 100' - 24" Storm Sewer Pipe Req'd. (4' Cover)
Silt-Tight Joint Type Req'd.
Inv(In)228.10 Inv(Out)225.60

17-66 to 17-67 65' - 24" Storm Sewer Pipe Req'd. (5' Cover)
Silt-Tight Joint Type Req'd.
Inv(In)211.58 Inv(Out)210.28

17-74 to 17L-05 97' - 24" Storm Sewer Pipe Req'd. (14' Cover)
Silt-Tight Joint Type Req'd.
Inv(In)195.00 Inv(Out)194.00

Sheet 17P

17-67 I-St'd, DI-HOK (Precast) Req'd.
L=4' H=6.5' Inv.=210.18 Top=216.71
Type III Req'd.
I-St'd, IS-I Req'd.
Connect UD-4 to DI

Sheet 17L

17P-01 20.6 Lin. Ft. MH-I or 2 (Precast) Req'd.
I St'd, MH-I Frame and Cover Req'd.
Prop. Top=254.45
Inv.=233.15
I-St'd, IS-I Req'd.
I-St'd, SL-I Req'd.
Connect to 2 Existing 18" Concrete Pipes
Connect to Existing 24" Concrete Pipe

17-67 to 17-33 42' - 24" Storm Sewer Pipe Req'd. (6' Cover)
Silt-Tight Joint Type Req'd.
Inv(In)210.18 Inv(Out)209.34

17L-01 Structure Number Not Assigned

17P-02 I-St'd, Top DI-3BB (Precast) Req'd.
I-St'd, Doghouse with Footing (Precast) Req'd.
L=10' H=20.2' Inv.=234.86 Top=255.09
Type A Nose Req'd.
I-St'd, IS-I Req'd.
I-St'd, SL-I Req'd.
Connect UD-4 to DI

17-68 137 Lin. Ft. St'd, MH-I or 2 Req'd.
I St'd, MH-I Frame and Cover Req'd.
Prop. Top=196.80
Inv.=182.40
I-St'd, IS-I Req'd.

17L-02 Structure Number Not Assigned

17P-03 Structure Number Not Assigned

17-68 to 17-56 63' - 36" Storm Sewer Pipe Req'd. (11' Cover)
Silt-Tight Joint Type Req'd.
Inv(In)182.40 Inv(Out)182.00
Excavate 4' below bottom of storm sewer pipe and backfill with bedding Material Aggregate #25 or 26
17 Tons Bedding Material Aggregate #25 or 26

17L-03 to 17L-05 109' - 60" Corrugated Metal Pipe Req'd. (16' Cover)
Silt-Tight Joint Type Req'd.
Inv(In)192.05 Inv(Out)191.10
Excavate 4' below bottom of storm sewer pipe and backfill with bedding material Aggregate #25 or 26
48 Tons Bedding Material Aggregate #25 or 26

17P-04 I-St'd, DI-3A Req'd.
H=4.0' Inv.=253.85 Top=257.87
Type A Nose Req'd.
Connect UD-4 to DI

17-69 11.1 Lin. Ft. St'd, MH-I or 2 Req'd.
I St'd, MH-I Frame and Cover Req'd.
Prop. Top=203.00
Inv.=191.20
I-St'd, IS-I Req'd.

17L-04 Structure Number Not Assigned

17P-05 I-St'd, ES-I (15') Req'd.
Inv.=253.10
1 CY EC-I Class A Type A Installation Req'd.

17-69 to 17-68 22' - 36" Storm Sewer Pipe Req'd. (8' Cover)
Silt-Tight Joint Type Req'd.
Inv(In)191.20 Inv(Out)191.00
Excavate 4' below bottom of storm sewer pipe and backfill with bedding Material Aggregate #25 or 26
6 Tons Bedding Material Aggregate #25 or 26

17L-05 to 17-16 422' - 60" Existing Metal Pipe (33' Cover)
Inv(In)185.11 Inv(Out)172.21
Repair Method B, Category A, B, C, or D Req'd.

17P-05 I-St'd, DI-3B Req'd.
L=6' H=4.4' Inv.=229.00 Top=233.42
Type A Nose Req'd.
Connect Modified UD-4 to DI

17-70 I-St'd, DI-7 Gate A Type I Req'd.
H=4.8' Inv.=207.50 Top=212.25

17L-06 Structure Number Not Assigned

17L-07 I-St'd, DI-3B Req'd.
L=6' H=4.4' Inv.=229.00 Top=233.42
Type A Nose Req'd.
Connect Modified UD-4 to DI

17-70 to 17-08 9' - 24" Storm Sewer Pipe Req'd. (4' Cover)
Silt-Tight Joint Type Req'd.
Inv(In)207.50 Inv(Out)207.20

17L-07 to 17L-08 34' - 15" Storm Sewer Pipe Req'd. (3' Cover)
Silt-Tight Joint Type Req'd.
Inv(In)229.00 Inv(Out)228.50

VDOT PROJECT NO. 0495-029-419	SHEET NO. 2K(6) AREA 4
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NOVA DISTRICT

10/26/2022

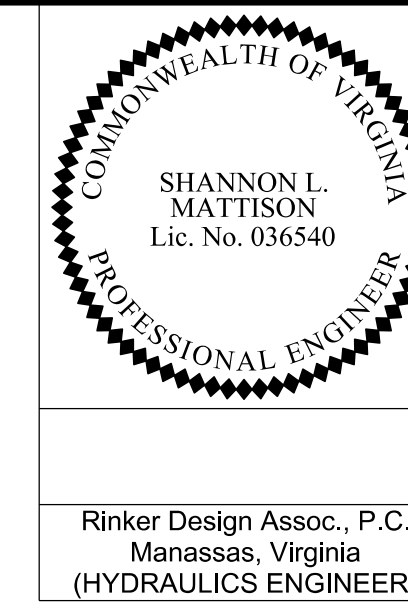
THESE PLANS ARE UNFINISHED AND UNAPPROVED AND ARE NOT TO BE

FINAL PLANS

APPROVED FOR CONSTRUCTION

PROJECT MANAGER VDOT - Rupal Shah, PE, (703) 259-2362
SURVEYED BY, DATE RDA - Nicholas Kougaull's LS (703) 334-0837, 12/2021
DESIGN BY RDA - Darrell Fischer, PE, (703) 334-0823
SUBSURFACE UTILITY BY, DATE Accurark - Michael Taylor, LS, (703) 635-3060, 12/2021

Drainage Descriptions



Rinker Design Assoc., P.C.
Manassas, Virginia
(HYDRAULICS ENGINEER)

REVISED	STATE		STATE		SHEET NO.
	STATE	ROUTE	VDOT PROJECT NO.		
	VA.	495	0495-029-419 C501 RW201	2K(7)	AREA 4

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

ALLOWABLE TYPE OF STORM SEWER PIPE (UNLESS OTHERWISE SHOWN IN DRAINAGE DESCRIPTIONS)
(SEE ROAD AND BRIDGE STANDARD PC-1 FOR HEIGHT OF COVER LIMITATIONS FOR EACH TYPE)

LOCATION	CONCRETE	ALUMINUM COATED TYPE 2 STEEL SPIRAL RIB	POLYMER COATED (10/10) CORRUGATED STEEL SPIRAL RIB	POLYMER COATED (10/10) CORRUGATED STEEL DOUBLE WALL (SMOOTH INTERIOR)	ALUMINUM SPIRAL RIB	POLYVINYLCHLORIDE (PVC) RIBBED PIPE (SMOOTH INTERIOR)	POLYETHYLENE (PE) CORRUGATED TYPE S	POLYPROPYLENE (PP) TYPE D OR S
495 EXPRESS LANES	X					X	X	X
495 GENERAL PURPOSE LANES	X					X	X	X
INTERCHANGE RAMPS	X					X	X	X
GEORGE WASHINGTON MEMORIAL PARKWAY	X					X	X	X
LIVE OAK ROAD	X					X	X	X

ALLOWABLE TYPE OF PIPE CULVERT (UNLESS OTHERWISE SHOWN IN DRAINAGE DESCRIPTIONS)
(SEE ROAD AND BRIDGE STANDARD PC-1 FOR HEIGHT OF COVER LIMITATIONS FOR EACH TYPE)

LOCATION	CONCRETE	ALUMINUM COATED TYPE 2 CORRUGATED STEEL	POLYMER COATED (10/10) CORRUGATED STEEL	UNCOATED GALVANIZED CORRUGATED STEEL	GALVANIZED STEEL STRUCTURAL PLATE	GALVANIZED STEEL STRUCTURAL PLATE WITH THICKENED INVERT	CORRUGATED ALUMINUM ALLOY	CORRUGATED ALUMINUM ALLOY STRUCTURAL PLATE	POLYVINYLCHLORIDE (PVC) RIBBED PIPE (SMOOTH INTERIOR)	POLYETHYLENE (PE) CORRUGATED TYPE C	POLYETHYLENE (PE) CORRUGATED TYPE S	POLYPROPYLENE (PP) TYPE D OR S
495 EXPRESS LANES	X								X	X	X	X
495 GENERAL PURPOSE LANES	X								X	X	X	X
INTERCHANGE RAMPS	X								X	X	X	X
GEORGE WASHINGTON MEMORIAL PARKWAY	X								X	X	X	X
LIVE OAK ROAD	X								X	X	X	X
ENTRANCE	X								X		X	X
DI-13 *See FH-11(04.37) In the Road and Bridge Standards				X								

NOVA DISTRICT

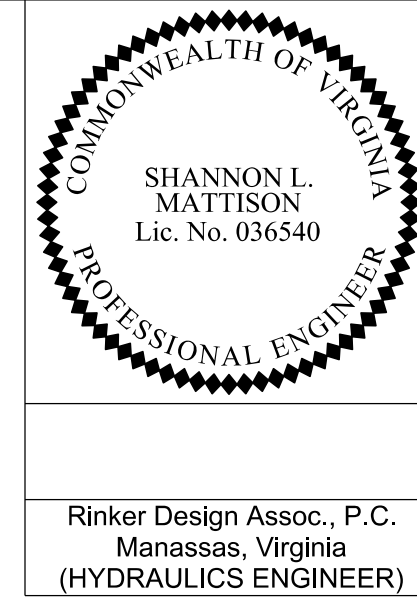
10/26/2022

VDOT PROJECT NO.
0495-029-419
SHEET NO.
2K(7)
AREA 4

APPROVED FOR CONSTRUCTION

PROJECT MANAGER VDOT - Rupal Shah, PE, (703) 259-2362
 SURVEYED BY, DATE RDA - Nicholas Kaugaulis, LS, (703) 334-0837, 12/2021
 DESIGN BY RDA - Darrell Fischer, PE, (703) 334-0823
 SUBSURFACE UTILITY BY, DATE Accumark - Michael Taylor, LS, (703) 635-3060, 12/2021

Storm Sewer Profiles

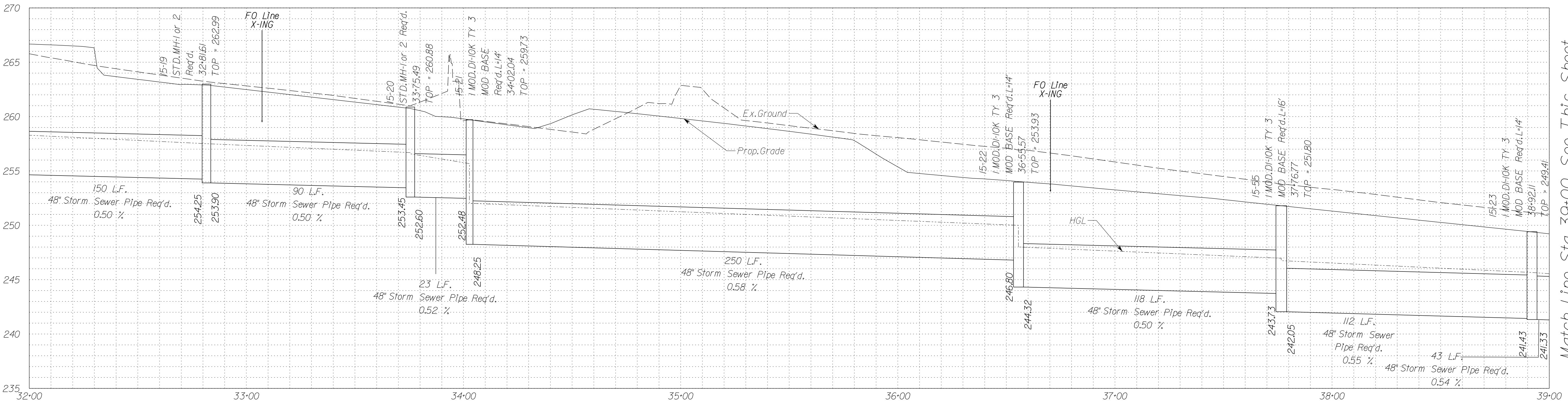


REVISED	STATE	ROUTE	STATE	VDOT PROJECT NO.	SHEET NO.
	VA	495		0495-029-419 C501 RW201	2L(15)A AREA 4

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

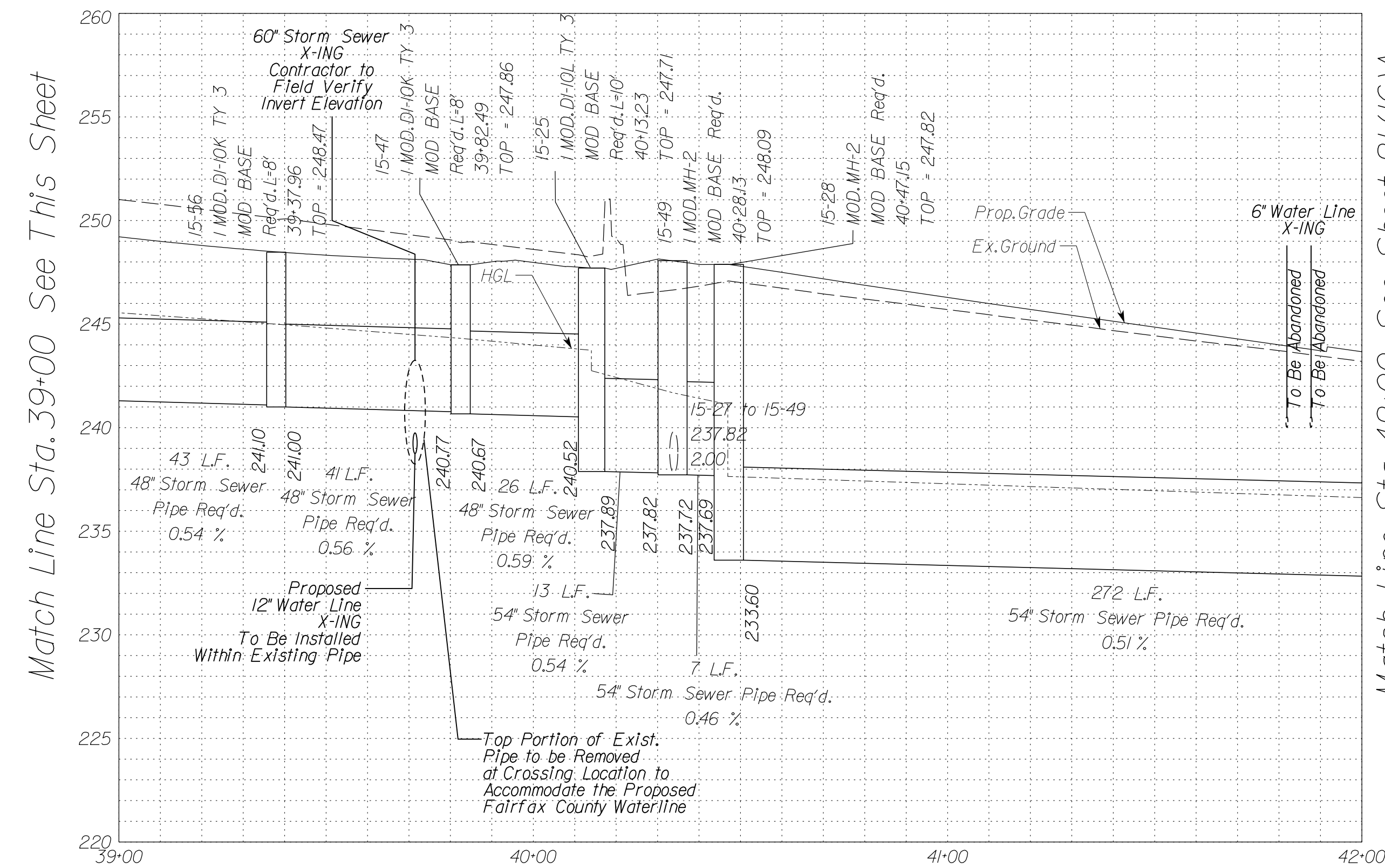
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Stormsewer Profile 12-19 to 17-15



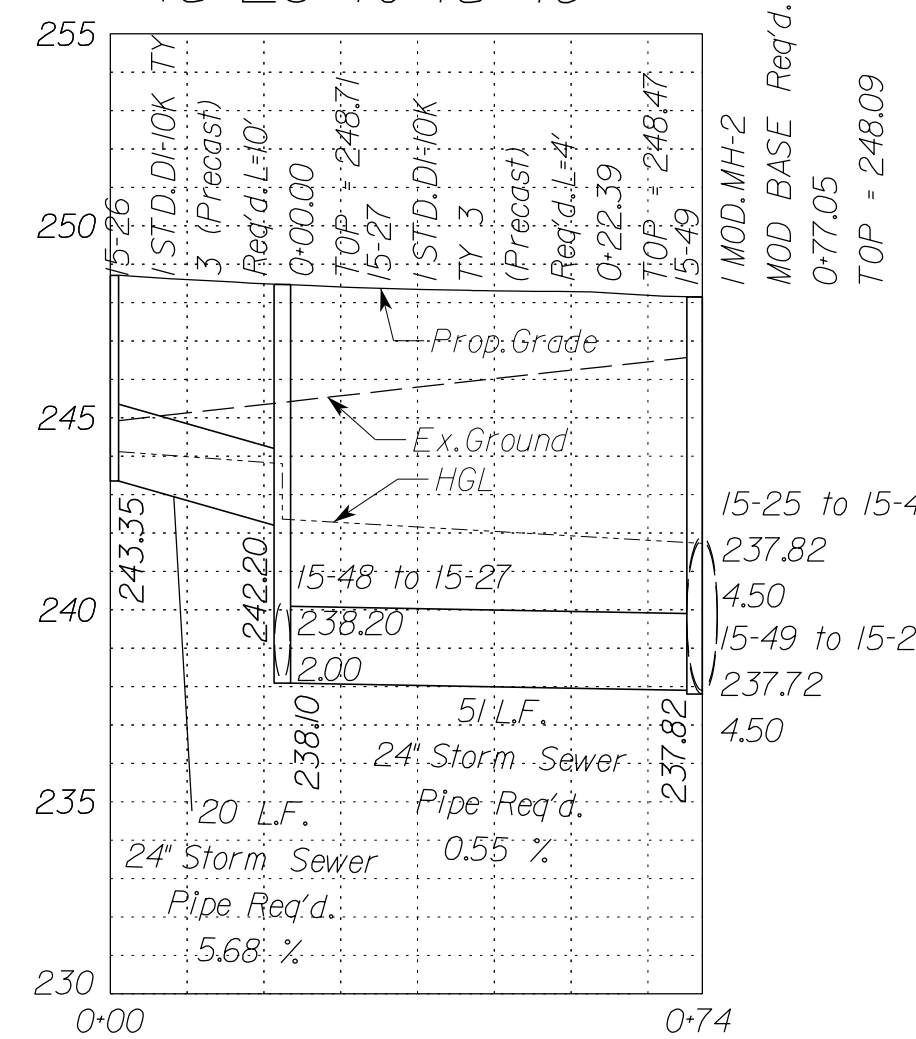
Match Line Sta. 39+00 See This Sheet

Stormsewer Profile 12-19 to 17-15

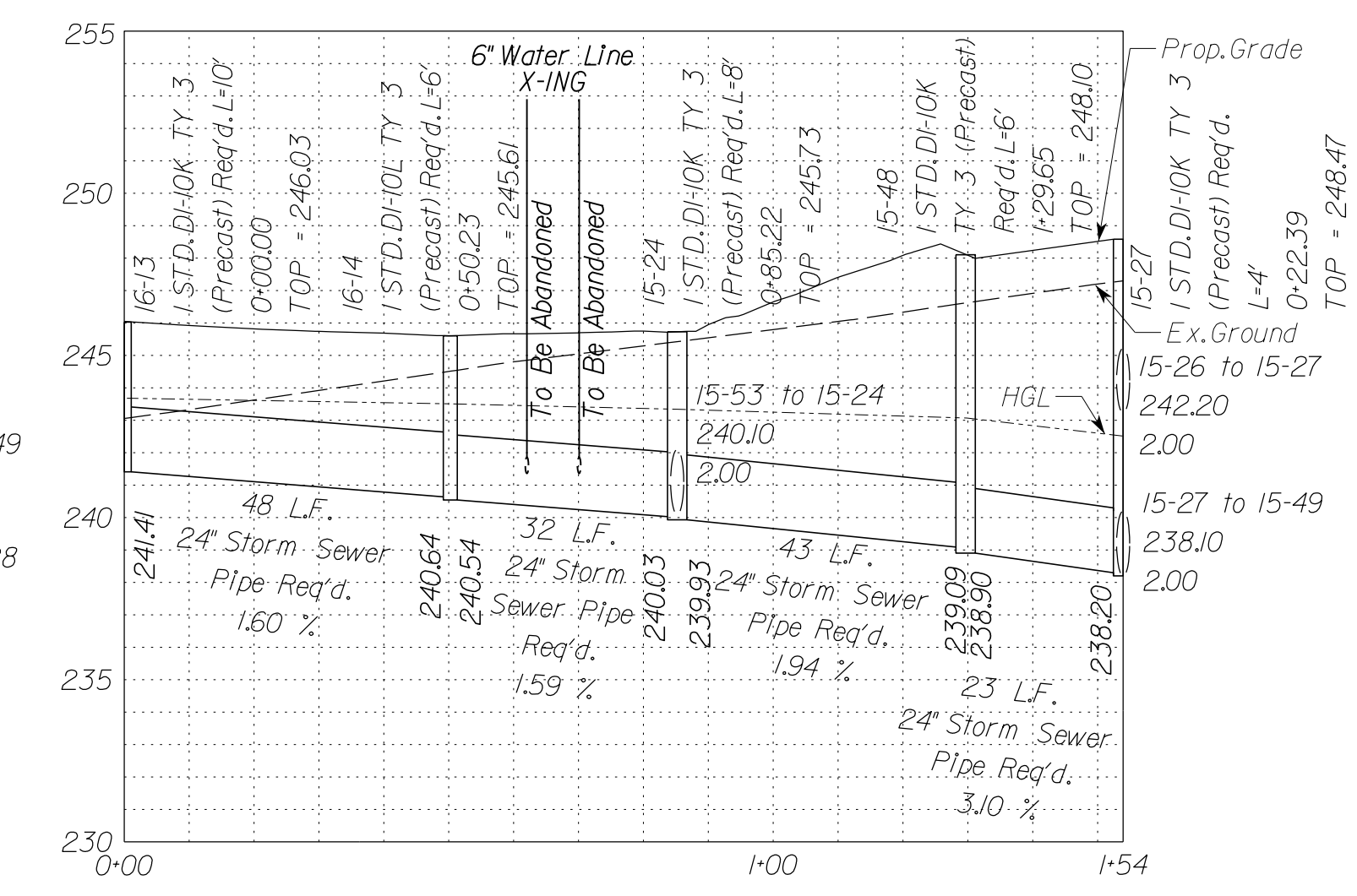


Match Line Sta. 42+00 See Sheet 2L(16)A

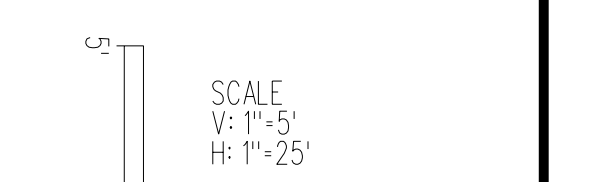
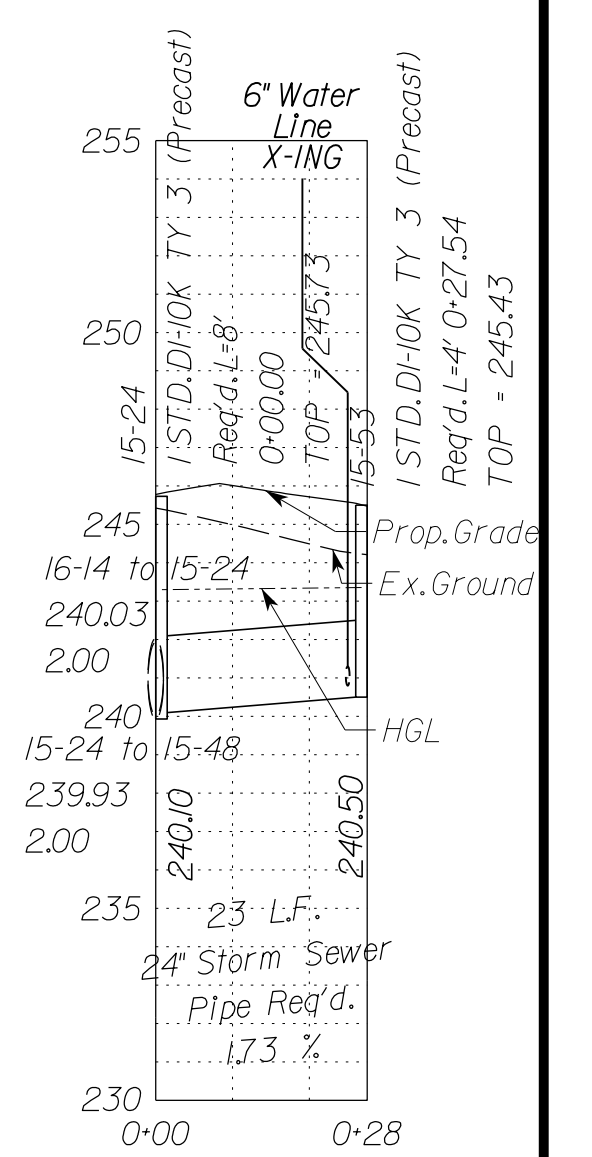
Stormsewer Profile 15-26 to 15-49



Stormsewer Profile 16-13 to 15-27



Stormsewer Profile 15-24 to 15-53



Utility Crossings are shown as assumed depths. Elevations are to be updated once test hole data has been finalized. In addition to the visual inspection performed by the Department during the initial installation of storm sewer pipes and pipe culverts, a post installation visual/video camera inspection shall be conducted by the Contractor on all storm sewer pipes and a selected number of pipe culverts in accordance with the requirements of this specification and VTM 123.

VDOT PROJECT NO. 0495-029-419	SHEET NO. 2L(15)A AREA 4
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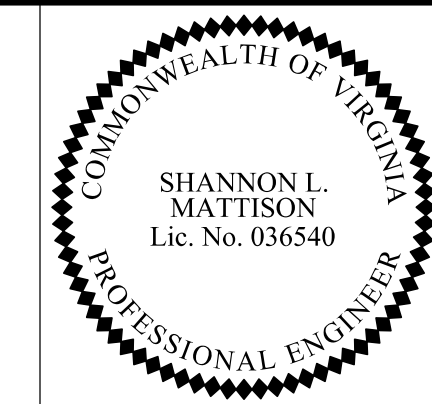
APPROVED FOR CONSTRUCTION

NOVA DISTRICT

10/26/2022

PROJECT MANAGER VDOT - Rupal Shah, PE, (703) 259-2362
 SURVEYED BY, DATE RDA - Nicholas Kougoullis, LS, (703) 334-0837, 12/2021
 DESIGN BY RDA - Darrell Fischer, PE, (703) 334-0823
 SUBSURFACE UTILITY BY, DATE Accurark - Michael Taylor, LS, (703) 635-3060, 12/2021

Storm Sewer Profiles

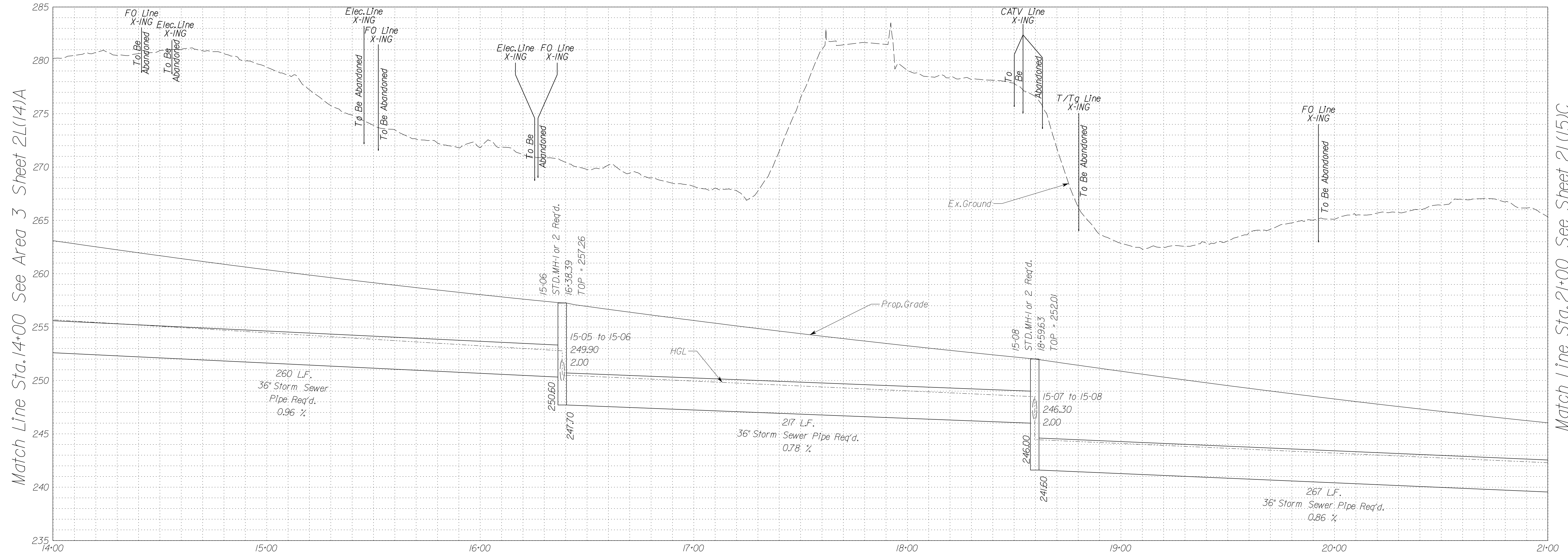


Rinker Design Assoc., P.C.
 Manassas, Virginia
 (HYDRAULICS ENGINEER)

REVISED	STATE	ROUTE	STATE	VDOT PROJECT NO.	SHEET NO.
	VA.	495		0495-029-419 C501 RW201	2L(15)B AREA 4

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

Stormsewer Profile 13-66 to 16-09

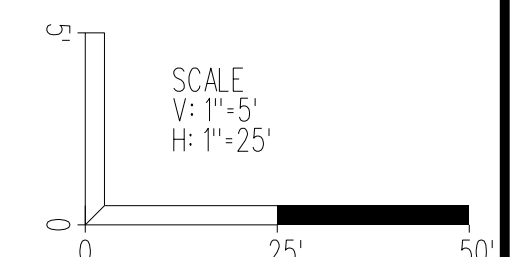


NOVA DISTRICT

10/26/2022

In addition to the visual inspection performed by the Department during the initial installation of storm sewer pipes and pipe culverts, a post installation visual/video camera inspection shall be conducted by the Contractor on all storm sewer pipes and a selected number of pipe culverts in accordance with the requirements of this specification and VTM 12.3.

Utility Crossings are shown as assumed depths. Elevations are to be updated once test hole data has been finalized.



VDOT PROJECT NO. 0495-029-419	SHEET NO. 2L(15)B AREA 4
----------------------------------	--------------------------------

APPROVED FOR CONSTRUCTION

PROJECT MANAGER VDOT - Rupal Shah, P.E. (703) 259-2362
 SURVEYED BY, DATE RDA - Nicholas Kougoullis, L.S. (703) 334-0837, 12/2021
 DESIGN BY RDA - Darrell Fischer, P.E. (703) 334-0823
 SUBSURFACE UTILITY BY, DATE Accurmark - Michael Taylor, L.S. (703) 635-3060, 12/2021

Storm Sewer Profiles

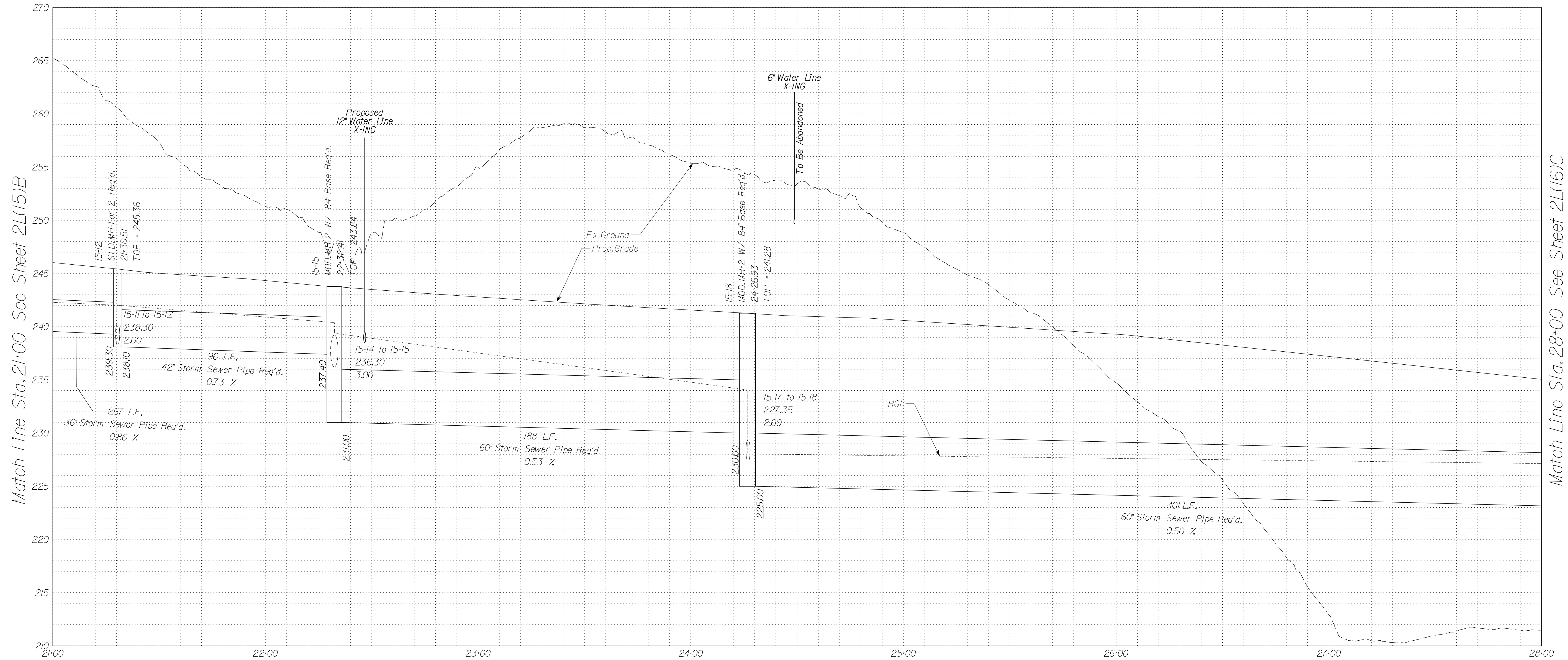
COMMONWEALTH OF VIRGINIA
 SHANNON L. MATTISON
 Lic. No. 036540
 PROFESSIONAL ENGINEER

Rinker Design Assoc., P.C.
 Manassas, Virginia
 (HYDRAULICS ENGINEER)

REVISED	STATE	ROUTE	STATE	VDOT PROJECT NO.	SHEET NO.
	VA.	495		0495-029-419 C501 RW201	2L1151C AREA 4

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

Stormsewer Profile 13-66 to 16-09



Match Line Sta. 21+00 See Sheet 2L1151B

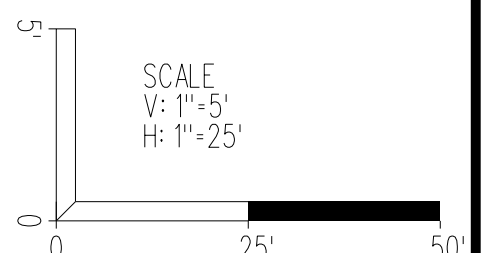
Match Line Sta. 28+00 See Sheet 2L1161C

NOVA DISTRICT

10/26/2022

In addition to the visual inspection performed by the Department during the initial installation of storm sewer pipes and pipe culverts, a post installation visual/video camera inspection shall be conducted by the Contractor on all storm sewer pipes and a selected number of pipe culverts in accordance with the requirements of this specification and VTM 12.3.

Utility Crossings are shown as assumed depths. Elevations are to be updated once test hole data has been finalized.



VDOT PROJECT NO. 0495-029-419	SHEET NO. 2L1151C AREA 4
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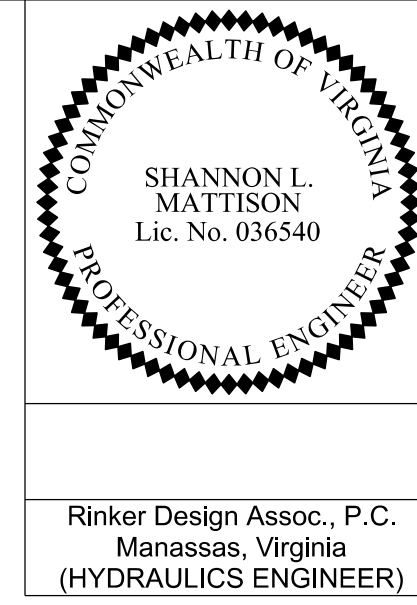
APPROVED FOR CONSTRUCTION

PROJECT MANAGER_VDOT - Rupal Shah, PE, (703) 259-2362
SURVEYED BY, DATE_RDA - Nicholas Kaugaulis, LS, (703) 334-0837, 12/2021
DESIGN BY_RDA - Darrell Fischer, PE, (703) 334-0823
Dewberry - Ron Jakomilich, PE, (703) 849-0651
SUBSURFACE UTILITY BY, DATE_Accumark - Michael Taylor, LS, (703) 635-3060, 12/2021

In addition to the visual inspection performed by the Department during the initial installation of storm sewer pipes and pipe culverts, a post installation visual video camera inspection shall be conducted by the Contractor on all storm sewer pipes and a selected number of pipe culverts in accordance with the requirements of this specification and VTM 123.

Utility Crossings are shown at assumed depths. Elevations are to be updated once test hole data has been finalized.

Storm Sewer Profiles

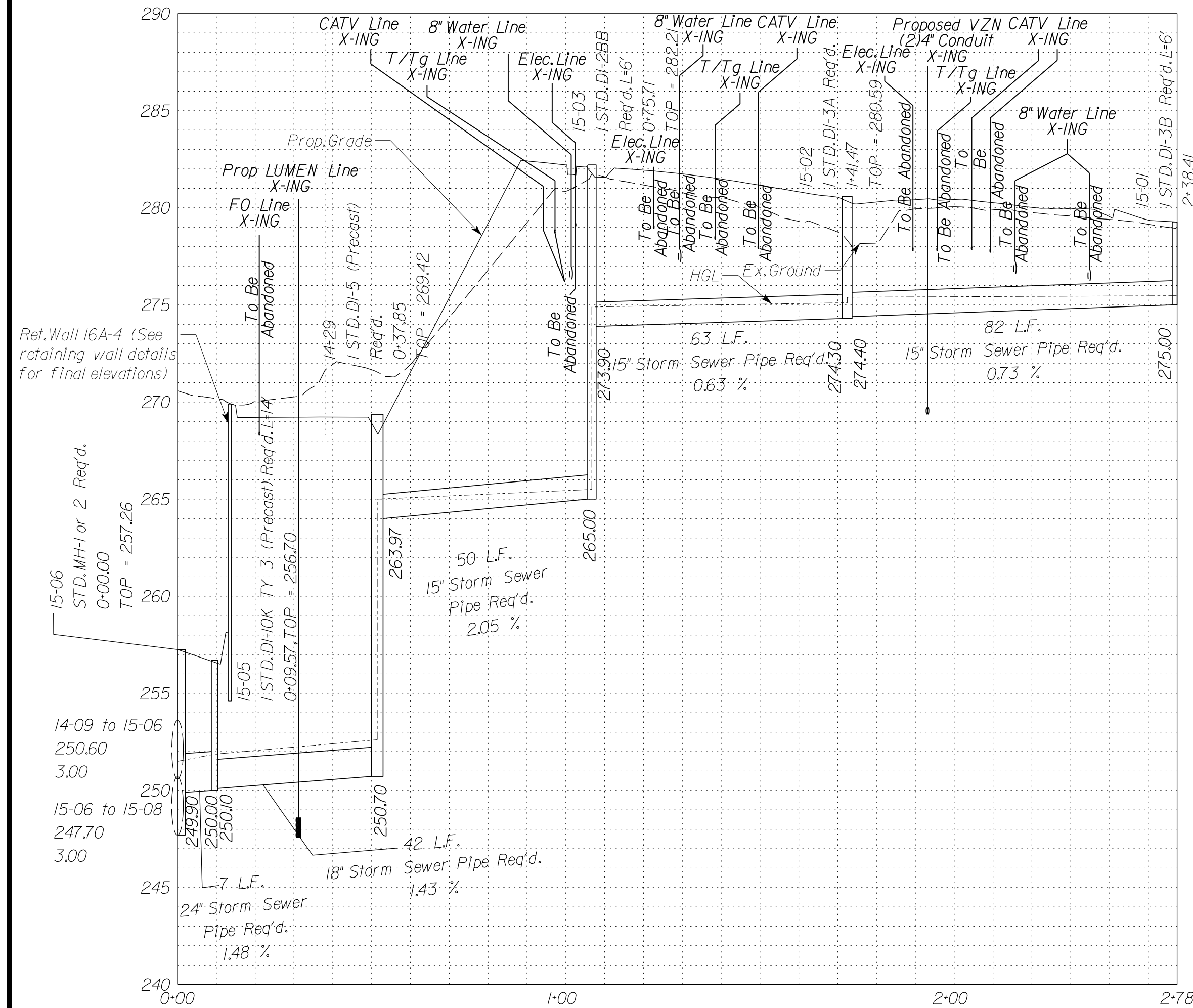


REVISED	STATE	ROUTE	STATE	VDOT PROJECT NO.	SHEET NO.
	VA	495		0495-029-419 C501 RW201	2L(15)D AREA 4

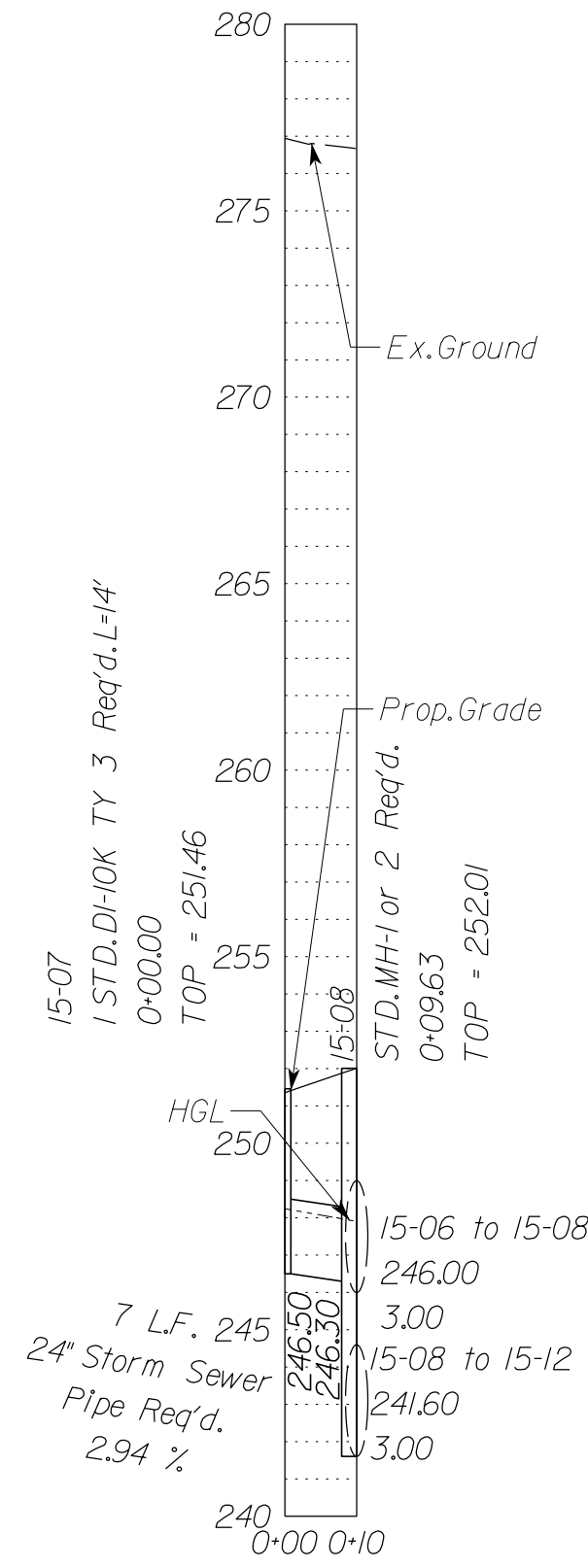
DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT

Rinker Design Assoc., P.C.
Manassas, Virginia
(HYDRAULICS ENGINEER)

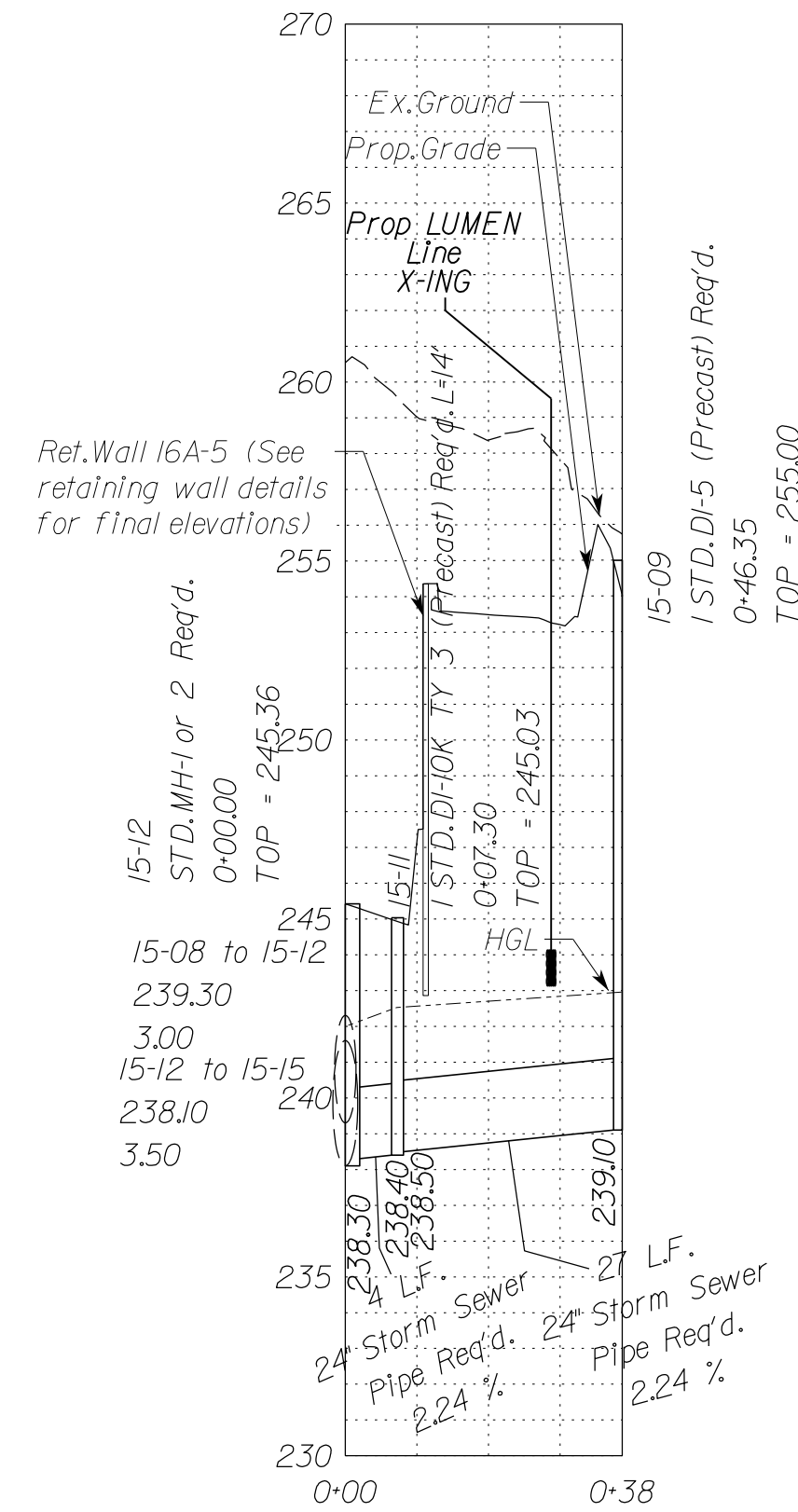
Stormsewer Profile 15-06 to 15-01



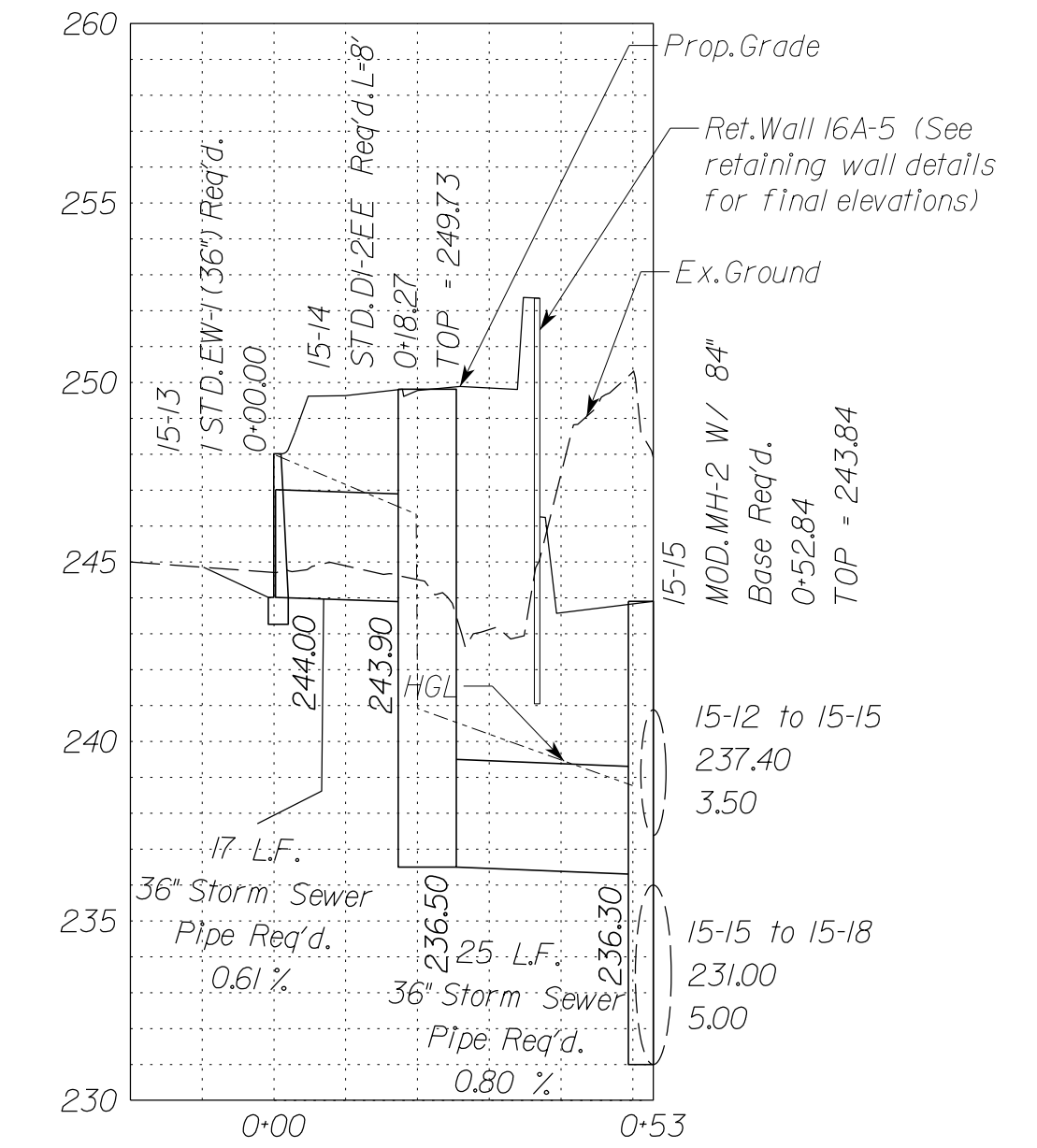
Stormsewer Profile 15-07 to 15-08



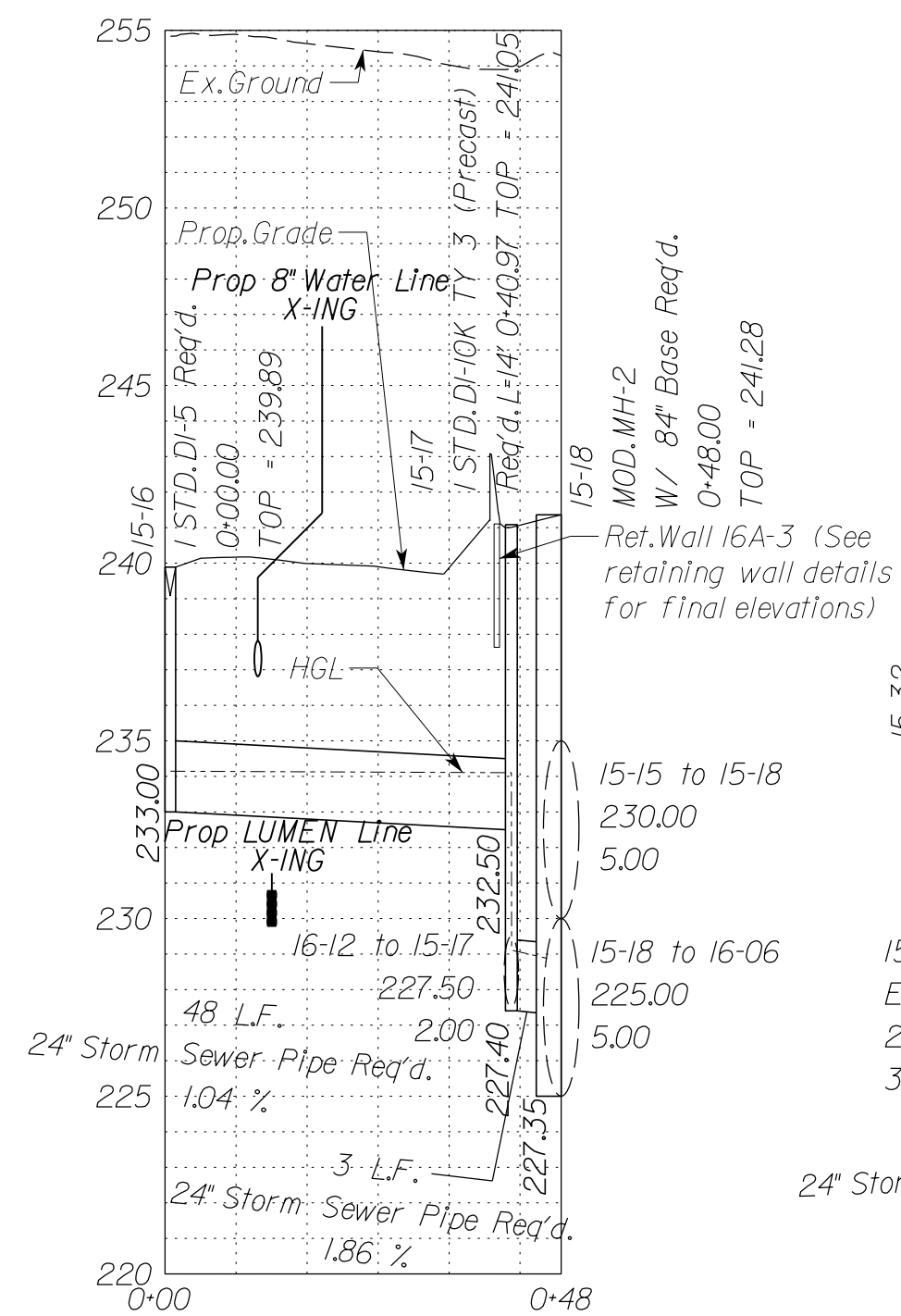
Stormsewer Profile 15-12 to 15-09



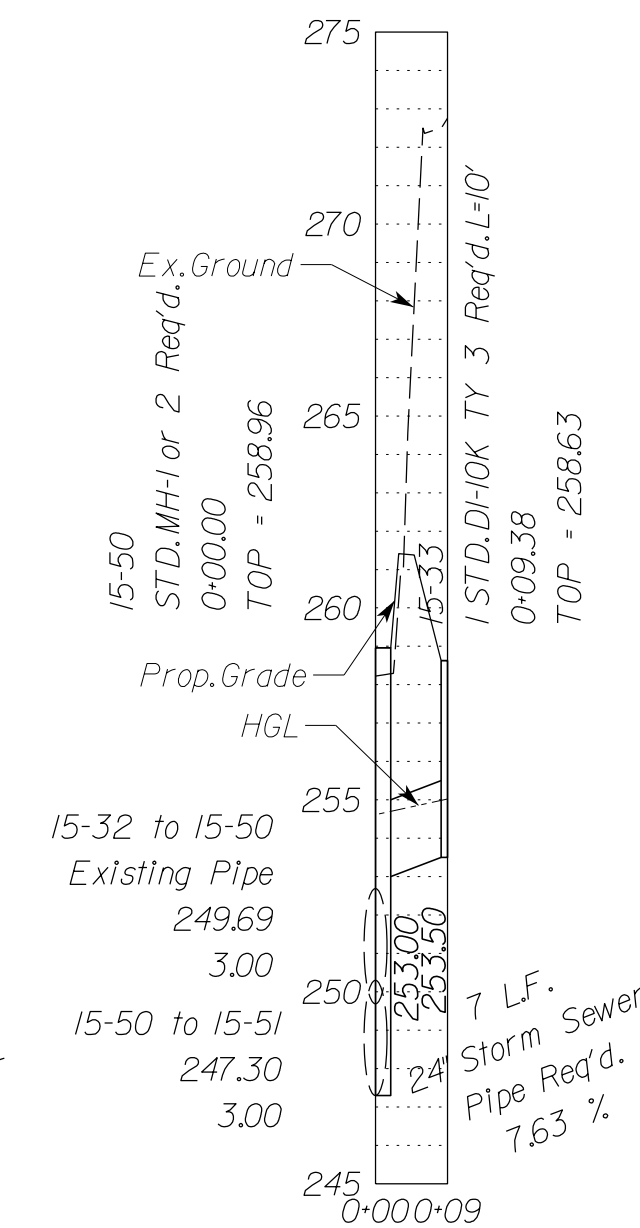
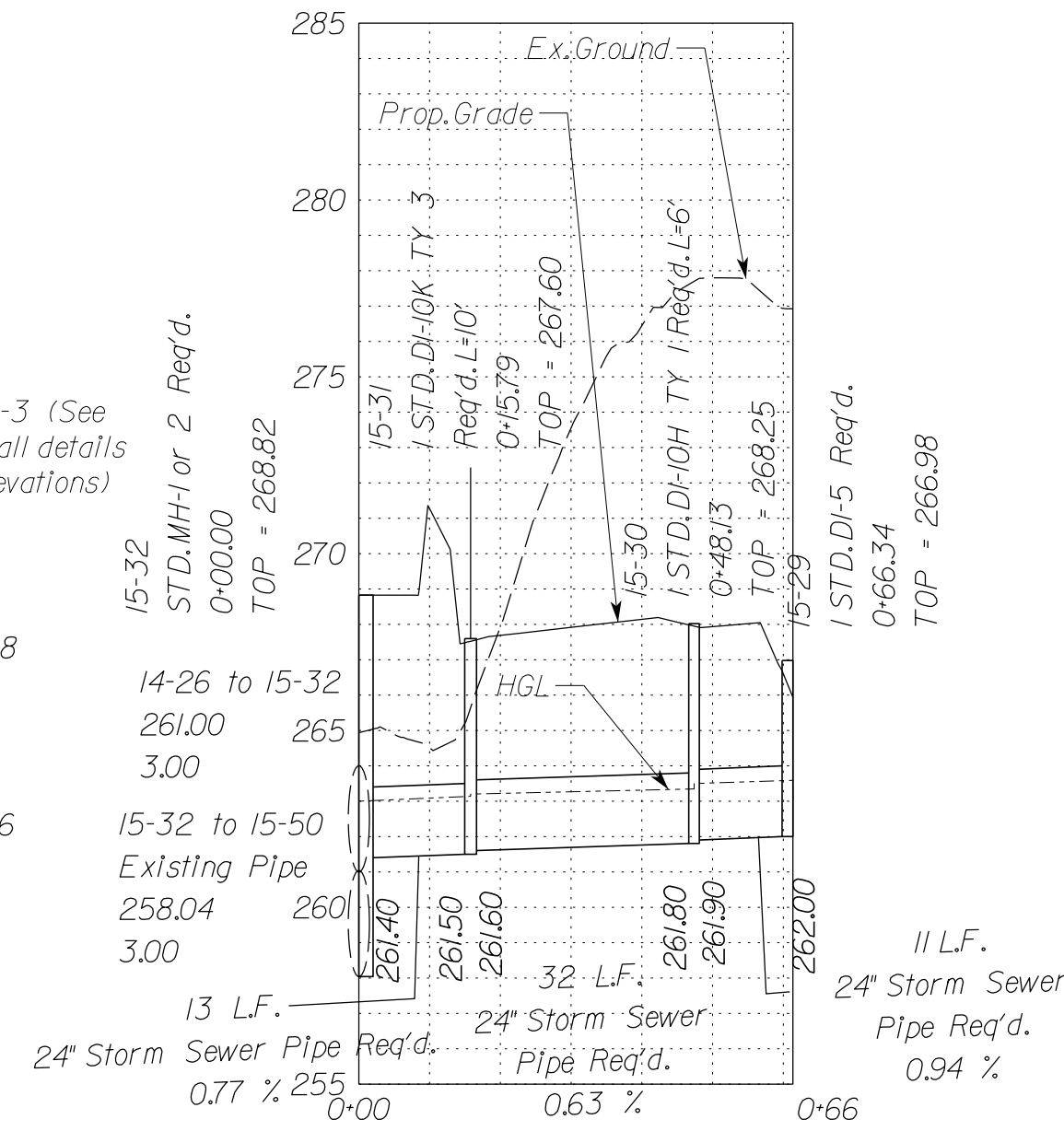
Stormsewer Profile 15-13 to 15-15



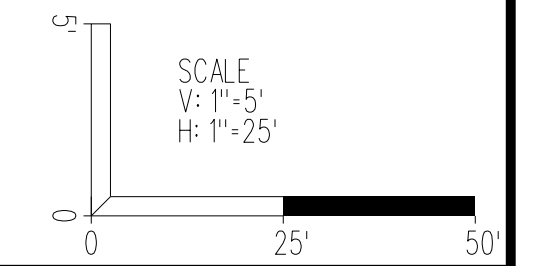
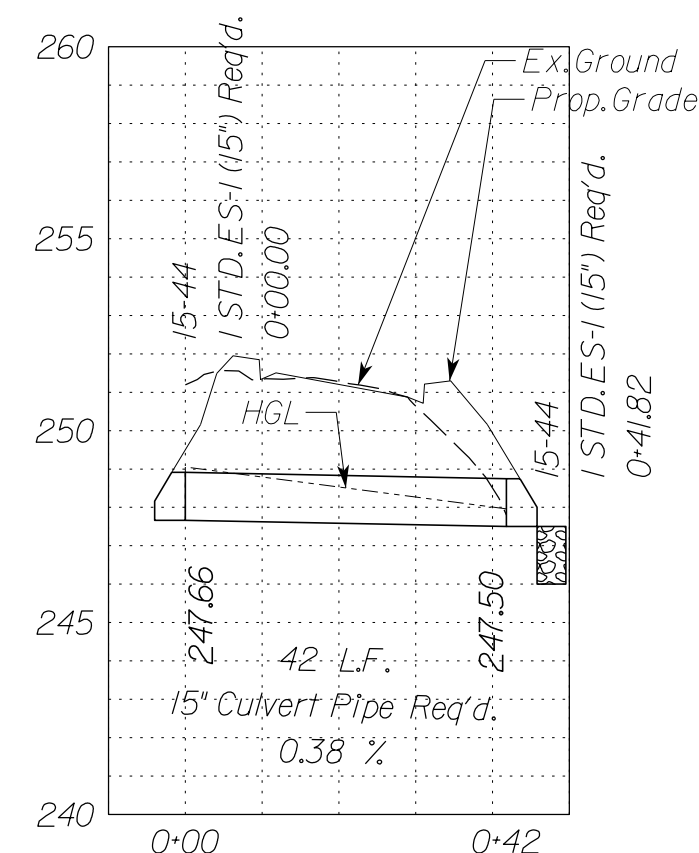
Stormsewer Profile 15-16 to 15-18



Stormsewer Profile 15-32 to 15-29 Stormsewer Profile 15-50 to 15-33



Culvert Profile 15-44



VDOT PROJECT NO. 0495-029-419	SHEET NO. 2L(15)D AREA 4
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APPROVED FOR CONSTRUCTION

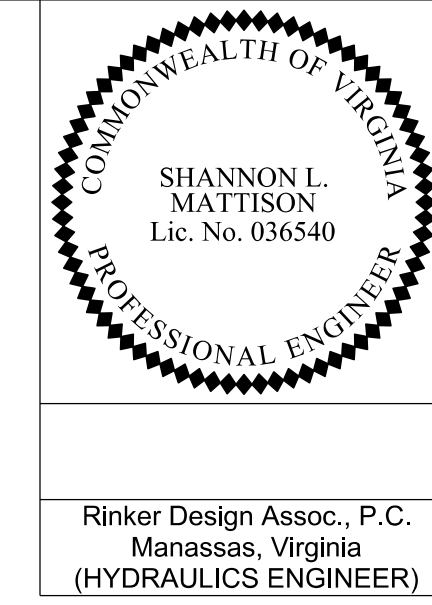
NOVA DISTRICT

PROJECT MANAGER VDOT - Rupal Shah, PE, (703) 259-2362
SURVEYED BY, DATE RDA - Nicholas Kaugaulis, LS, (703) 334-0837, 12/2021
DESIGN BY RDA - Darrell Fischer, PE, (703) 334-0823
SUBSURFACE UTILITY BY, DATE Accumark - Michael Taylor, LS, (703) 635-3060, 12/2021

In addition to the visual inspection performed by the Department during the initial installation of storm sewer pipes and pipe culverts, a post installation visual/video camera inspection shall be conducted by the Contractor on all storm sewer pipes and a selected number of pipe culverts in accordance with the requirements of this specification and VTM 123.

Utility Crossings are shown at assumed depths. Elevations are to be updated once test hole data has been finalized.

Storm Sewer Profiles

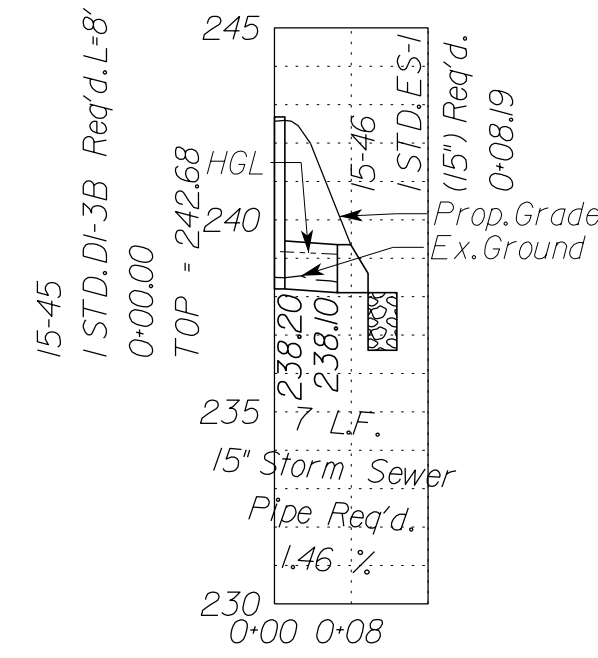


REVISED	STATE	ROUTE	STATE	VDOT PROJECT NO.	SHEET NO.
	VA	495		0495-029-419 C501 RW201	2L(15)E AREA 4

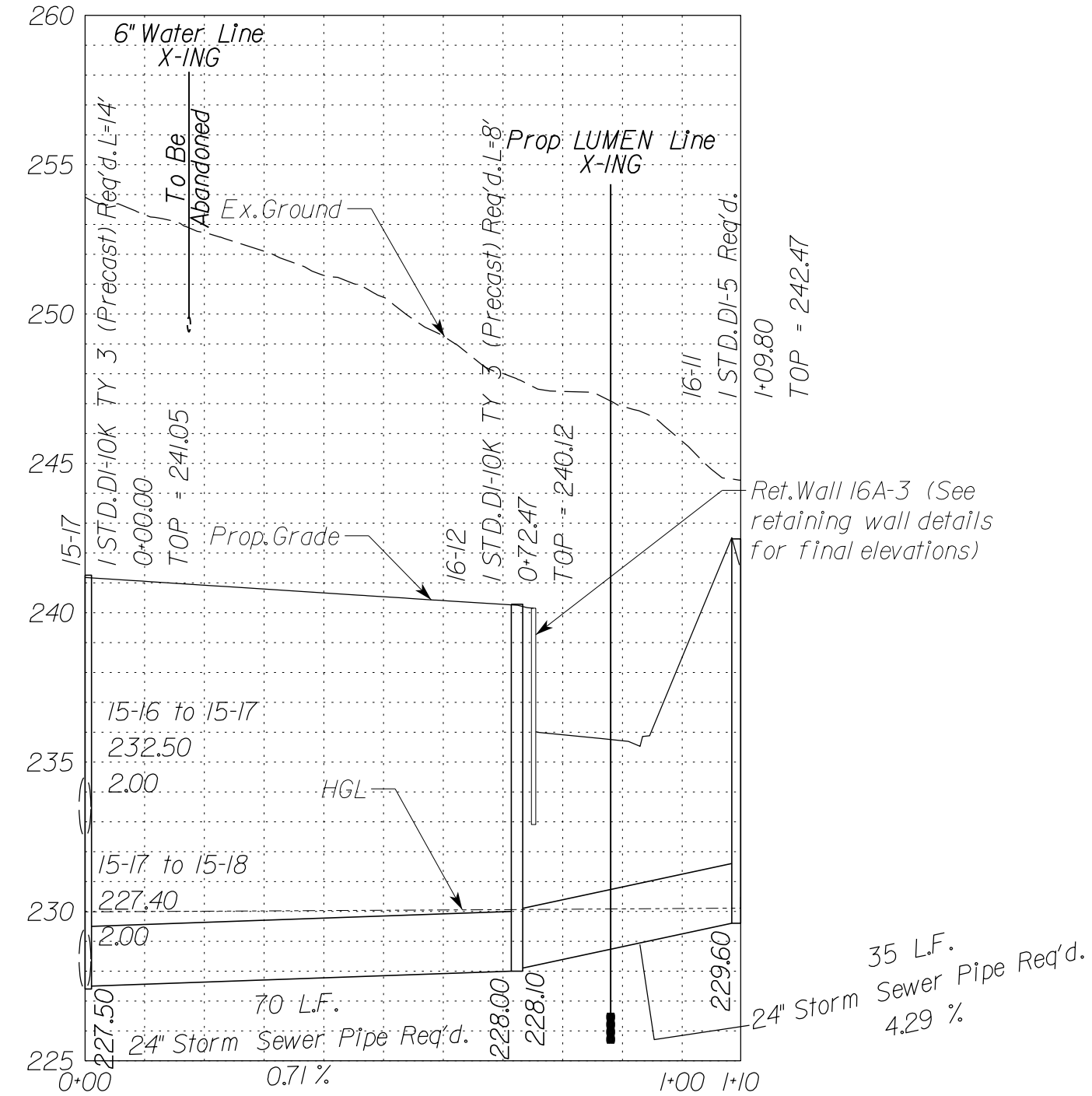
DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT

Rinker Design Assoc., P.C.
Manassas, Virginia
(HYDRAULICS ENGINEER)

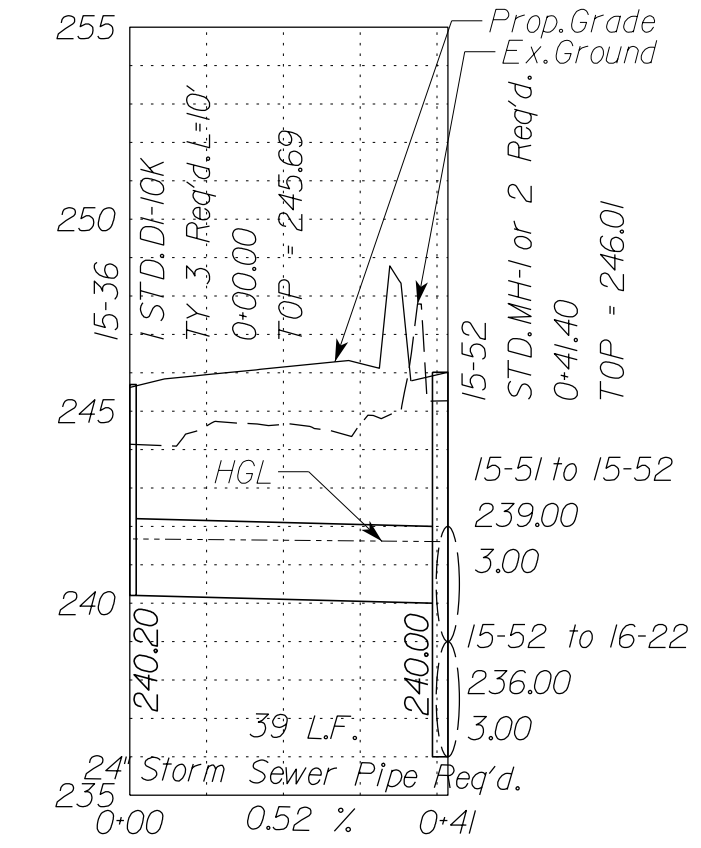
Stormsewer Profile 15-45 to 15-46



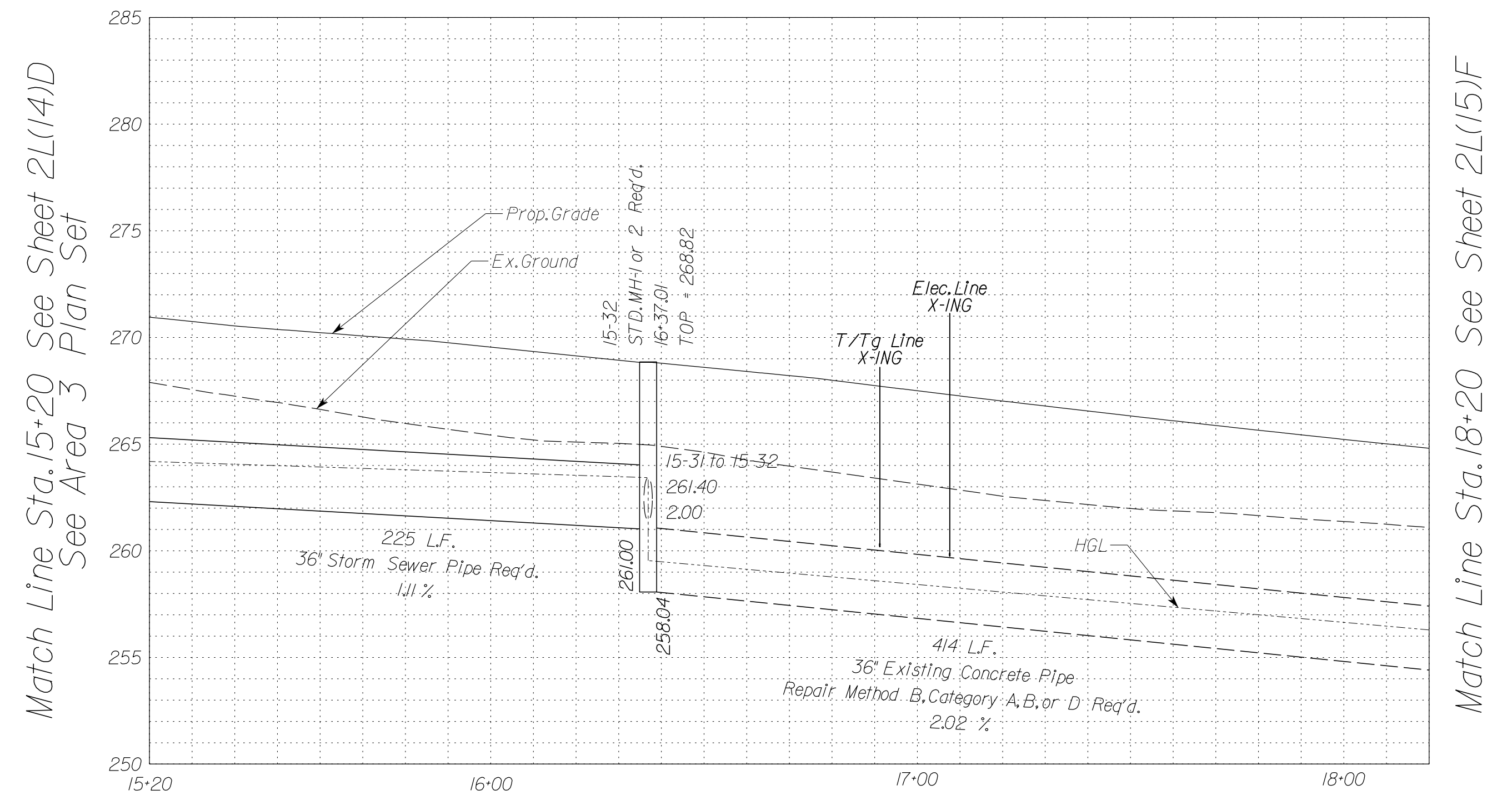
Stormsewer Profile 15-17 to 16-11



Stormsewer Profile 15-36 to 15-52

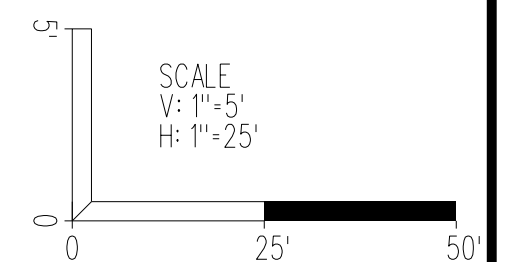


Stormsewer Profile 15-31 to 16-24



NOVA DISTRICT

10/26/2022

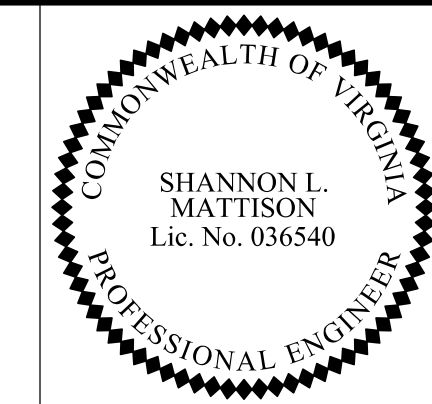


VDOT PROJECT NO. 0495-029-419	SHEET NO. 2L(15)E AREA 4
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APPROVED FOR CONSTRUCTION

PROJECT MANAGER VDOT - Rupal Shah, P.E. (703) 259-2362
 SURVEYED BY, DATE RDA - Nicholas Kaugaulis, L.S. (703) 334-0837, 12/2021
 DESIGN BY RDA - Darrell Fischer, P.E. (703) 334-0823
 SUBSURFACE UTILITY BY, DATE Accurark - Michael Taylor, L.S. (703) 635-3060, 12/2021

Storm Sewer Profiles

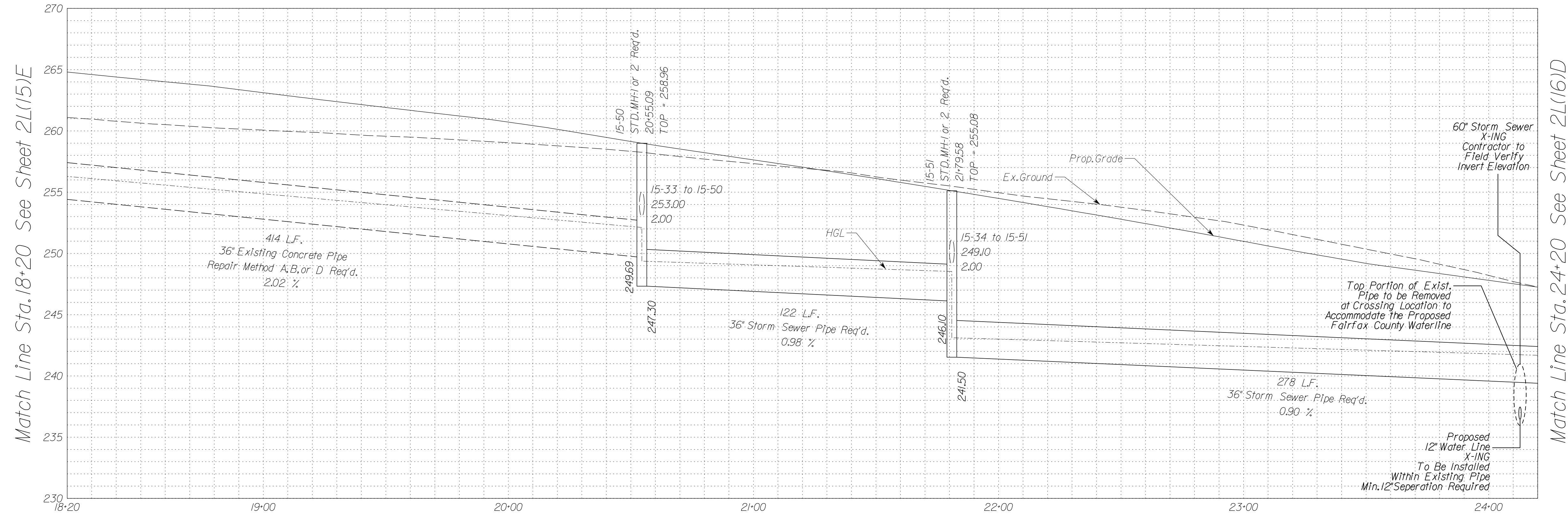


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 (HYDRAULICS ENGINEER)

REVISED	STATE	ROUTE	STATE	VDOT PROJECT NO.	SHEET NO.
	VA.	495		0495-029-419 C501 RW201	2L(15)F AREA 4

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

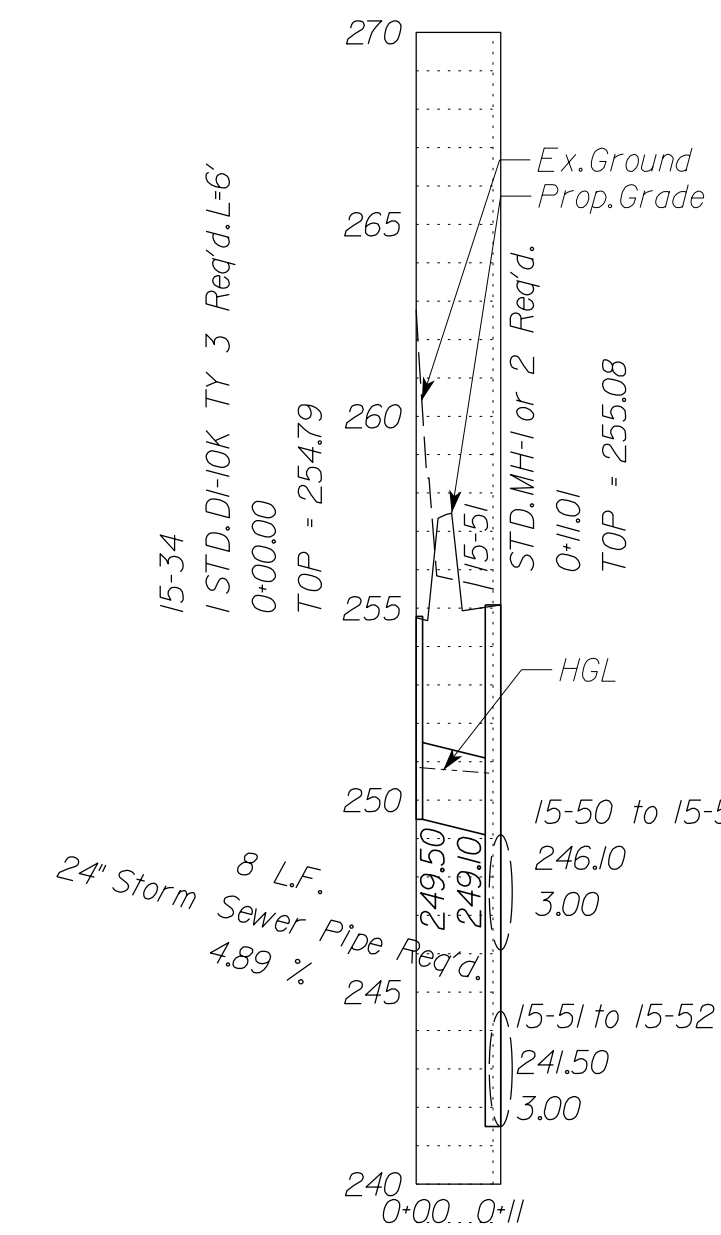
Stormsewer Profile 13-56 to 16-24



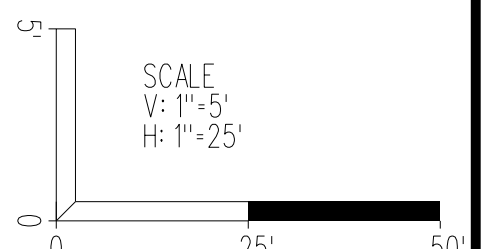
Match Line Sta. 18+20 See Sheet 2L(15)E

Match Line Sta. 24+20 See Sheet 2L(16)D

Stormsewer Profile 15-34 to 15-51



In addition to the visual inspection performed by the Department during the initial installation of storm sewer pipes and pipe culverts, a post installation visual/video camera inspection shall be conducted by the Contractor on all storm sewer pipes and a selected number of pipe culverts in accordance with the requirements of this specification and VTM 12.3.
 Utility Crossings are shown as assumed depths. Elevations are to be updated once test hole data has been finalized.



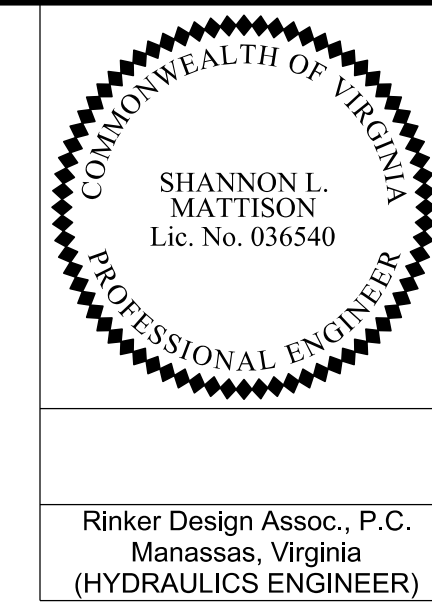
VDOT PROJECT NO. 0495-029-419	SHEET NO. 2L(15)F AREA 4
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APPROVED FOR CONSTRUCTION

NOVA DISTRICT

PROJECT MANAGER_VDOT - Rupal Shah, P.E. (703) 259-2362
SURVEYED BY, DATE_RDA - Nicholas Kougoullis, LS (703) 334-0837, 12/2021
DESIGN BY_RDA - Darrell Fischer, P.E. (703) 334-0823
SUBSURFACE UTILITY BY, DATE_Accumark - Michael Taylor, LS (703) 635-3060, 12/2021

Storm Sewer Profiles

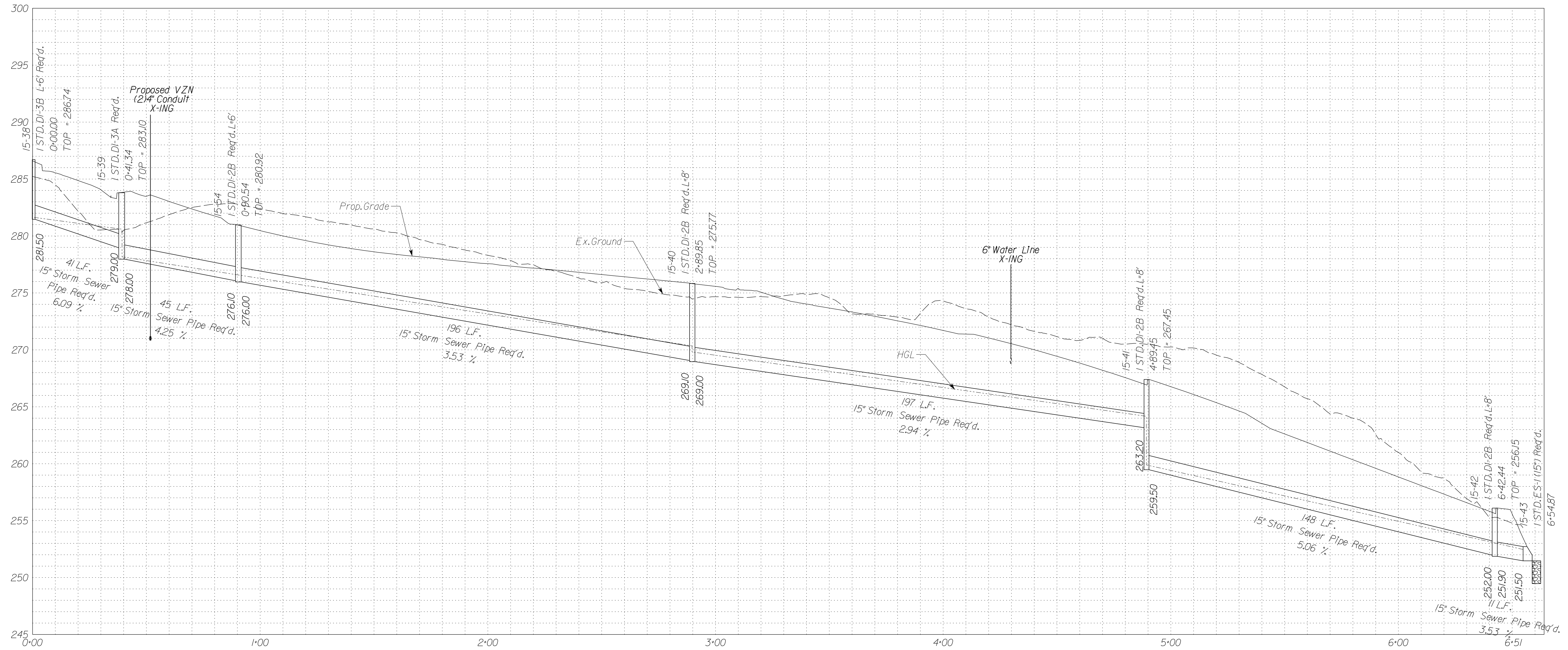


REVISED	STATE	ROUTE	STATE	VDOT PROJECT NO.	SHEET NO.
	VA.	495		0495-029-419 C501 RW201	2L1151G AREA 4

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

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(HYDRAULICS ENGINEER)

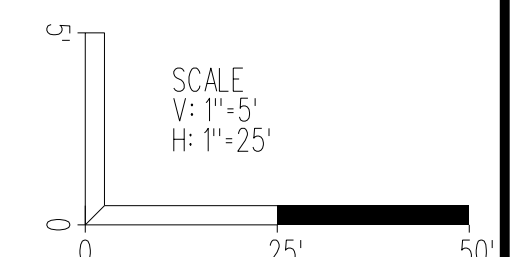
Stormsewer Profile 15-38 to 15-43



NOVA DISTRICT

10/26/2022

In addition to the visual inspection performed by the Department during the initial installation of storm sewer pipes and pipe culverts, a post installation visual/video camera inspection shall be conducted by the Contractor on all storm sewer pipes and a selected number of pipe culverts in accordance with the requirements of this specification and VTM 12.3.
Utility Crossings are shown at assumed depths. Elevations are to be updated once test hole data has been finalized.



VDOT PROJECT NO. 0495-029-419	SHEET NO. 2L1151G AREA 4
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APPROVED FOR CONSTRUCTION

PROJECT MANAGER VDOT - Rupal Shah, PE, (703) 259-2362
 SURVEYED BY, DATE RDA - Nicholas Kougaullis, LS, (703) 334-0837, 12/2021
 DESIGN BY RDA - Darrell Fischer, PE, (703) 334-0823
 Dewberry - Ron Jakomilich, PE, (703) 849-0651
 SUBSURFACE UTILITY BY, DATE Accurmark - Michael Taylor, LS, (703) 635-3060, 12/2021

Storm Sewer Profiles

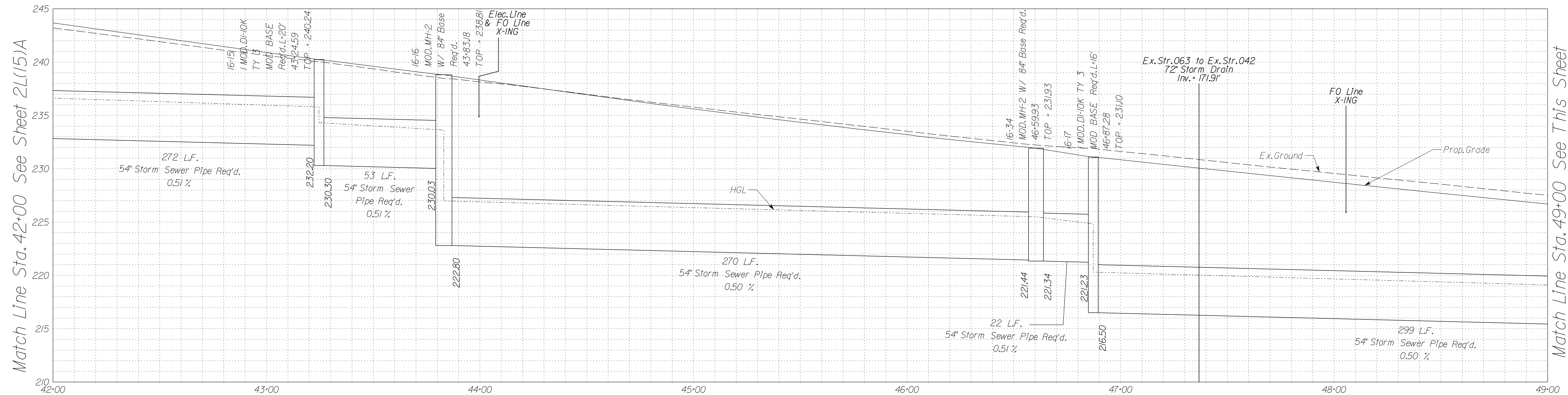
SHANNON L. MATTISON
 Lic. No. 036540
 PROFESSIONAL ENGINEER

Rinker Design Assoc., P.C.
 Manassas, Virginia
 (HYDRAULICS ENGINEER)

REVISED	STATE	ROUTE	STATE	VDOT PROJECT NO.	SHEET NO.
	VA.	495		0495-029-419 C501 RW201	2L1161A AREA 4

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

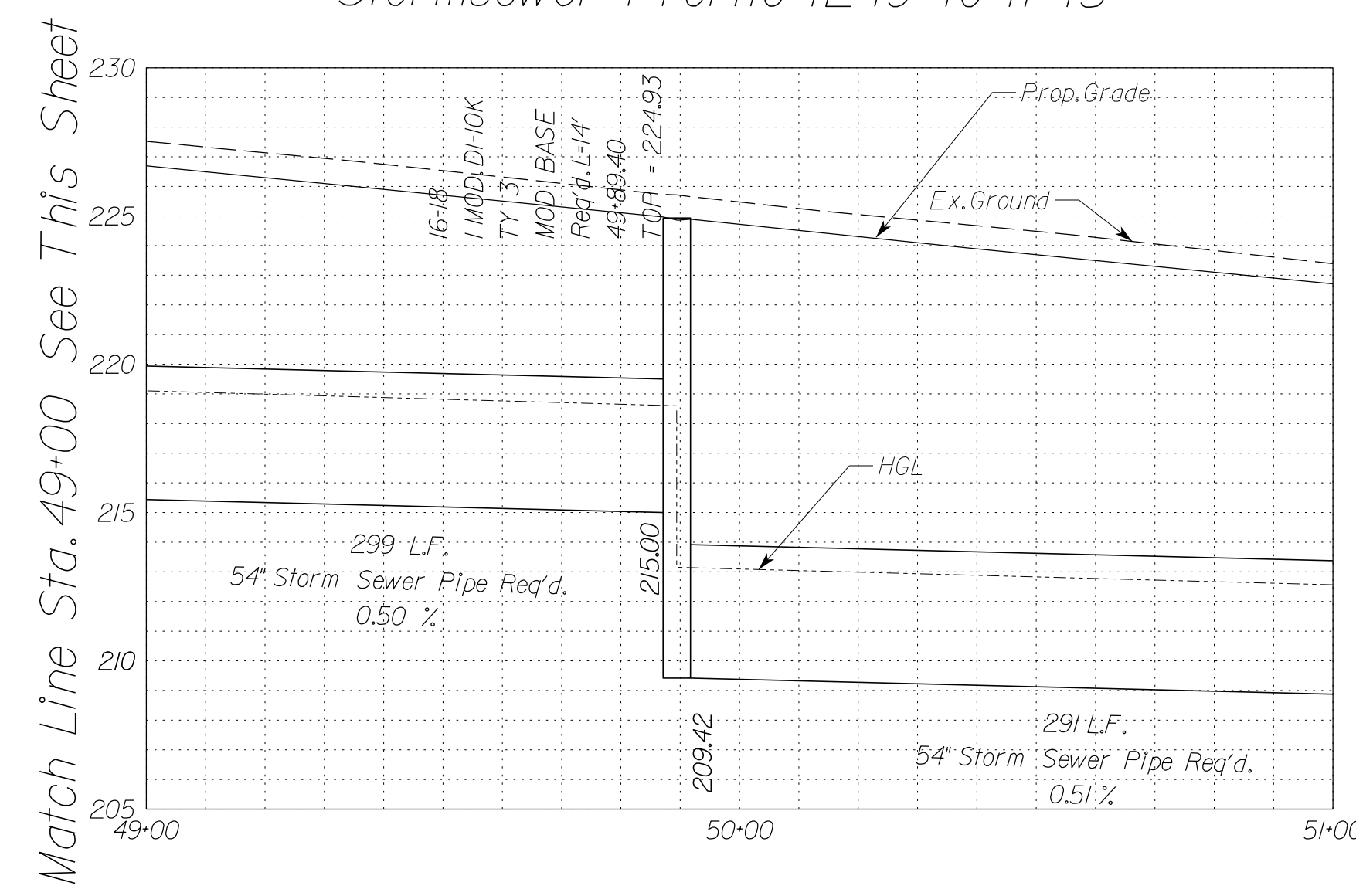
Stormsewer Profile 12-19 to 17-15



Match Line Sta. 42+00 See Sheet 2L1151A

Match Line Sta. 49+00 See This Sheet

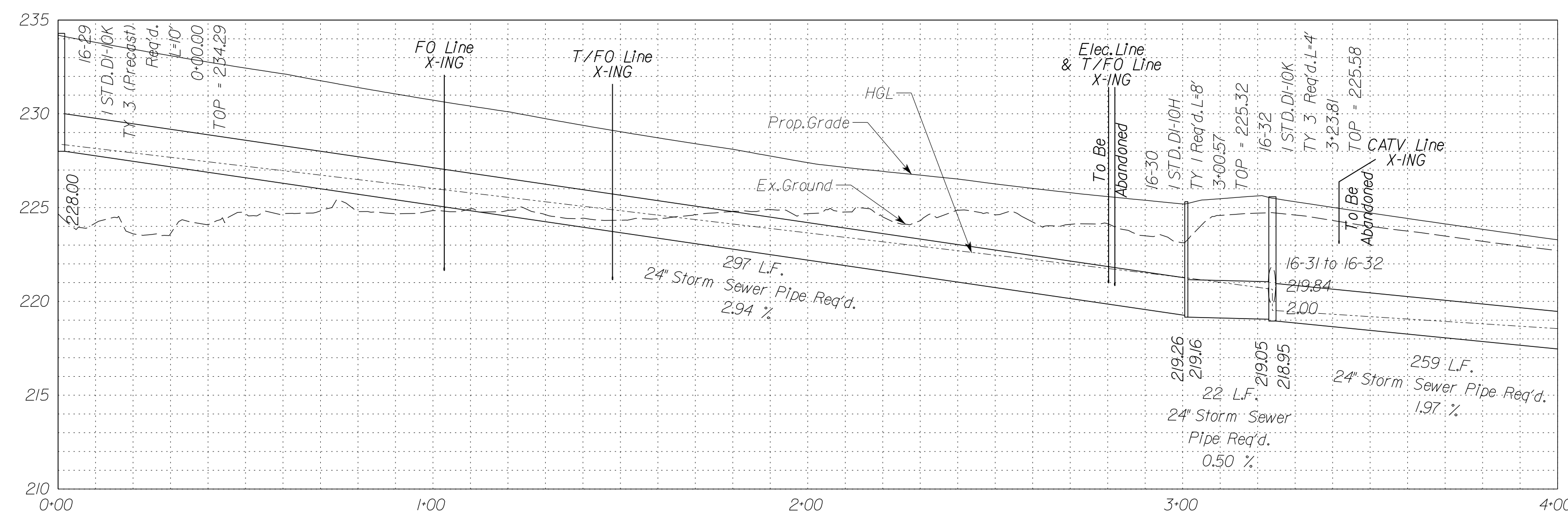
Stormsewer Profile 12-19 to 17-15



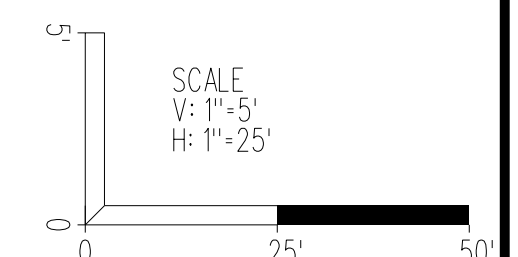
Match Line Sta. 49+00 See This Sheet

Match Line Sta. 51+00 See Sheet 2L1171A

Stormsewer Profile 16-29 to 17-56



Match Line Sta. 4+00 See Sheet 2L1171B



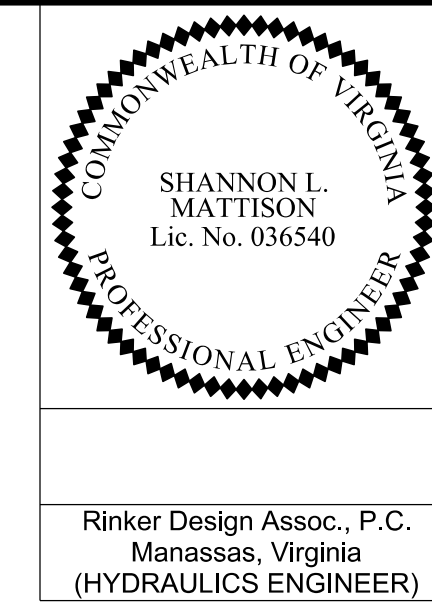
In addition to the visual inspection performed by the Department during the initial installation of storm sewer pipes and pipe culverts, a post installation visual/video camera inspection shall be conducted by the Contractor on all storm sewer pipes and a selected number of pipe culverts in accordance with the requirements of this specification and VTM 123.

VDOT PROJECT NO. 0495-029-419	SHEET NO. 2L1161A AREA 4
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APPROVED FOR CONSTRUCTION

PROJECT MANAGER VDOT - Rupal Shah, PE, (703) 259-2362
 SURVEYED BY, DATE RDA - Nicholas Kougaull's, LS, (703) 334-0837, 12/2021
 DESIGN BY RDA - Darrell Fischer, PE, (703) 334-0823
 Dewberry - Ron Jakomlitch, PE, (703) 849-0651
 SUBSURFACE UTILITY BY, DATE Accurark - Michael Taylor, LS, (703) 635-3060, 12/2021

Storm Sewer Profiles

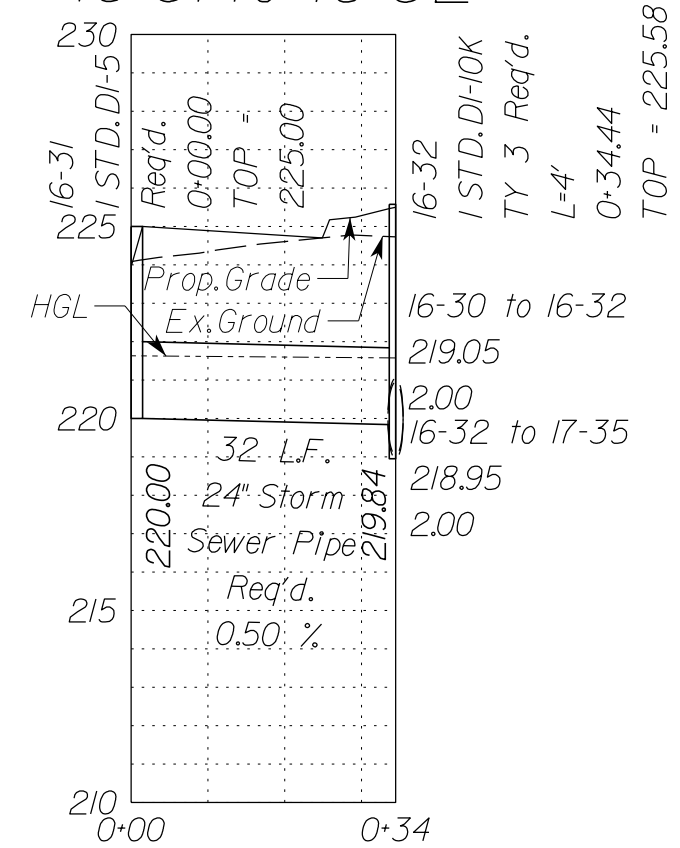


REVISED	STATE	ROUTE	STATE	VDOT PROJECT NO.	SHEET NO.
	VA.	495		0495-029-419 C501 RW201	2L1161B AREA 4

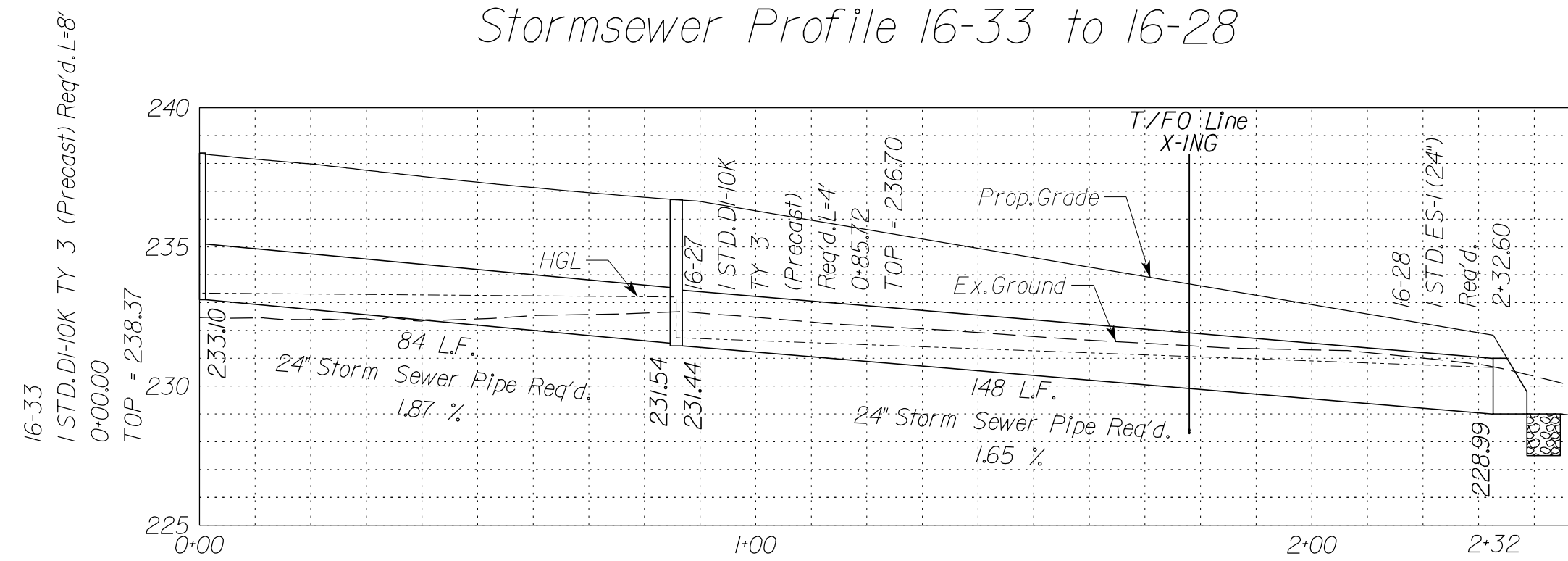
DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT

Rinker Design Assoc., P.C.
 Manassas, Virginia
 (HYDRAULICS ENGINEER)

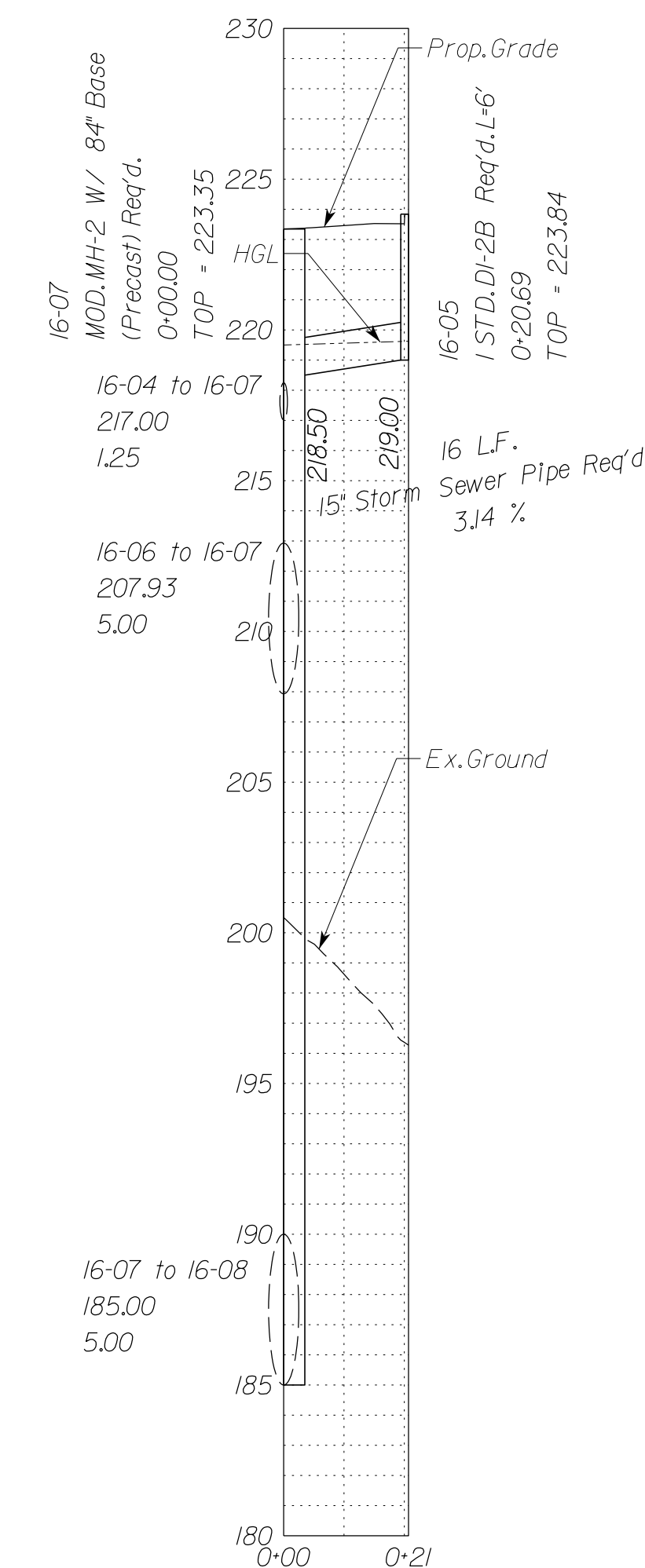
Stormsewer Profile 16-31 to 16-32



Stormsewer Profile 16-33 to 16-28

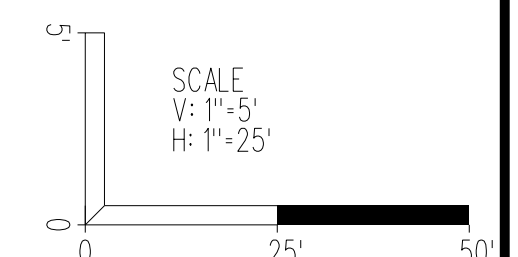


Stormsewer Profile 16-07 to 16-05



In addition to the visual inspection performed by the Department during the initial installation of storm sewer pipes and pipe culverts, a post installation visual/video camera inspection shall be conducted by the Contractor on all storm sewer pipes and a selected number of pipe culverts in accordance with the requirements of this specification and VTM 123.

Utility Crossings are shown at assumed depths. Elevations are to be updated once test hole data has been finalized.



VDOT PROJECT NO. 0495-029-419	SHEET NO. 2L1161B AREA 4
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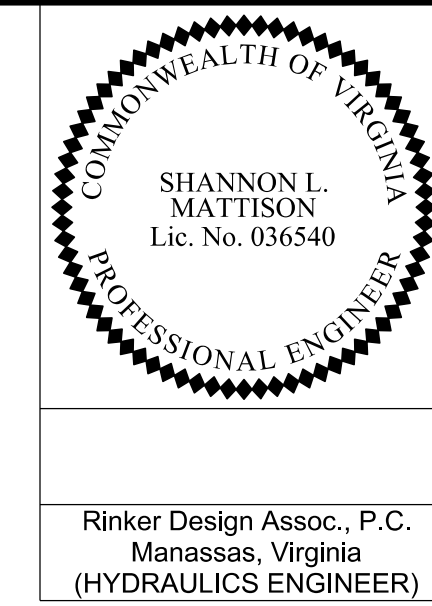
NOVA DISTRICT

10/26/2022

APPROVED FOR CONSTRUCTION

PROJECT MANAGER VDOT - Rupal Shah, PE, (703) 259-2362
 SURVEYED BY, DATE RDA - Nicholas Kougaull, LS, (703) 334-0837, 12/2021
 DESIGN BY RDA - Darrell Fischer, PE, (703) 334-0823
 SUBSURFACE UTILITY BY, DATE Accumark - Michael Taylor, LS, (703) 635-3060, 12/2021

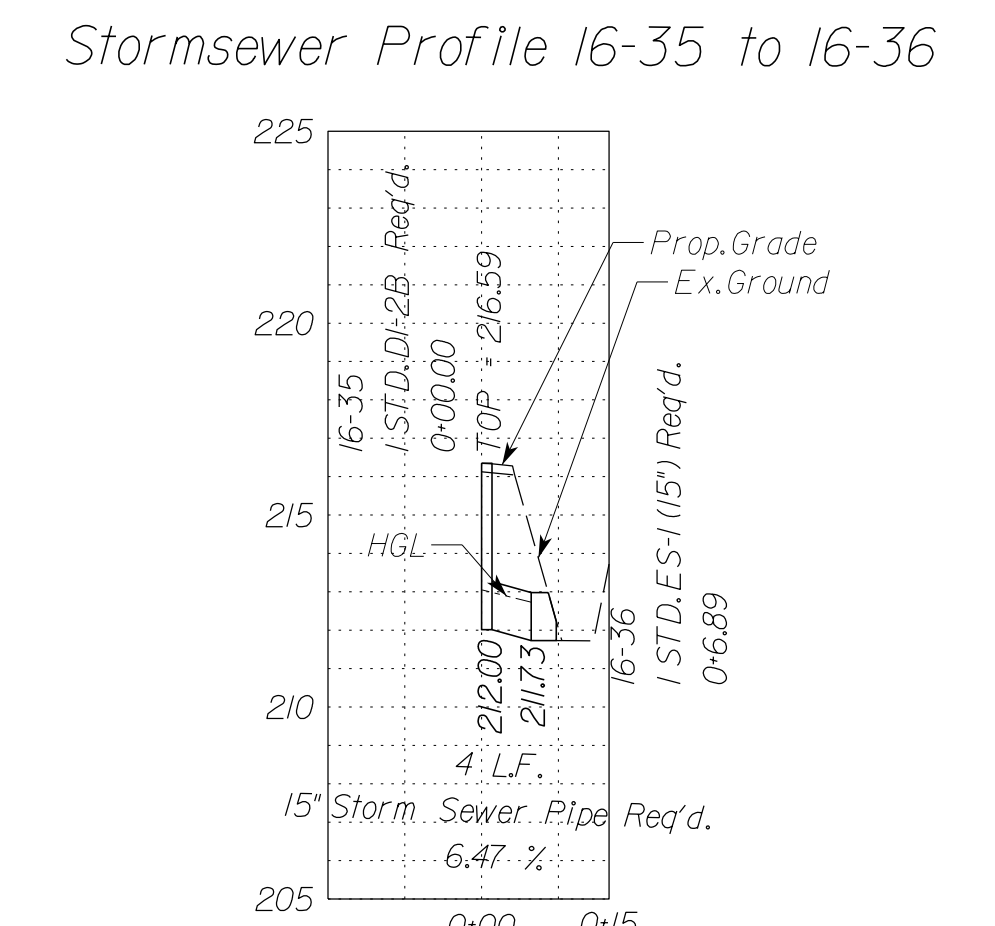
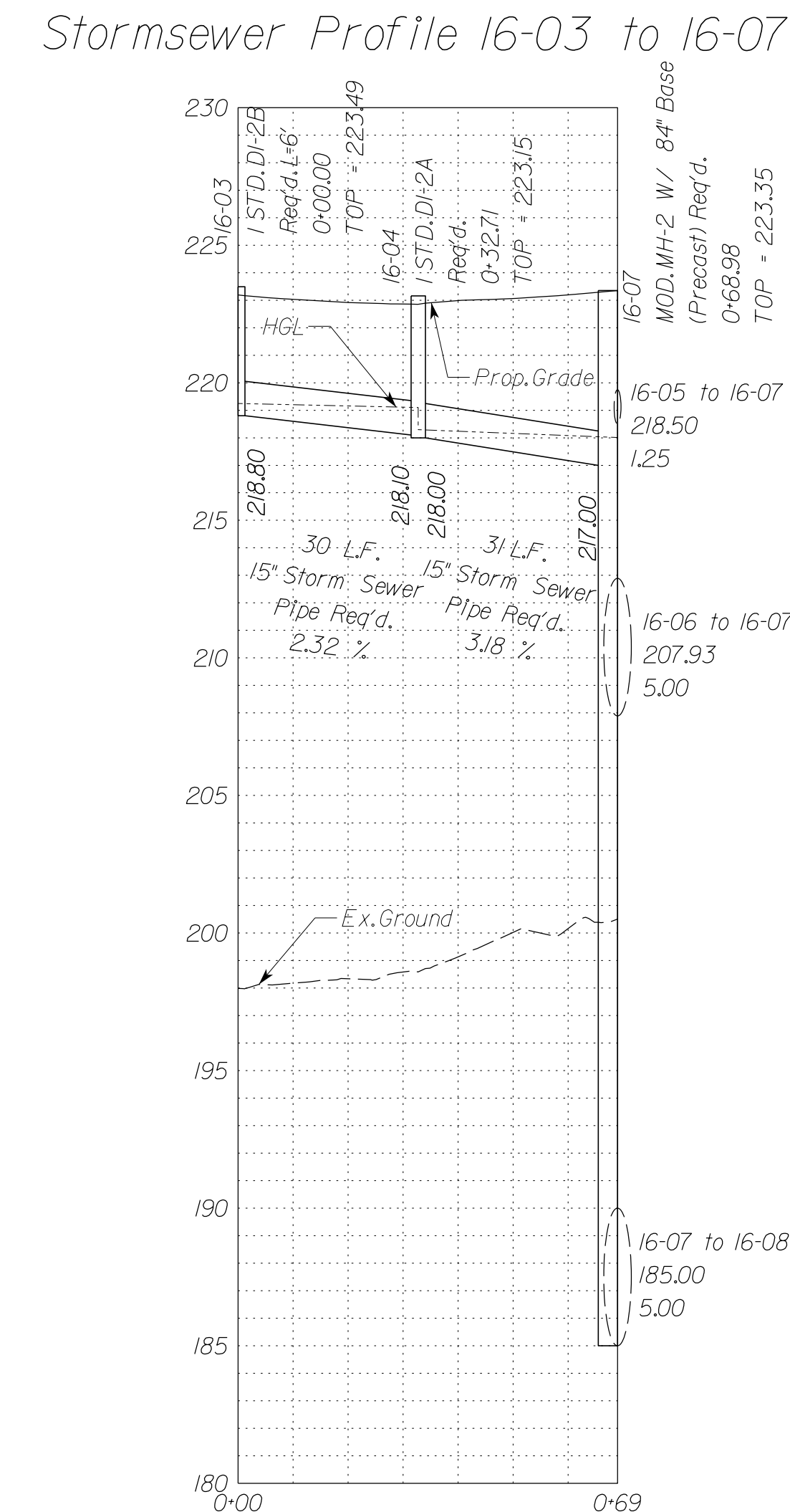
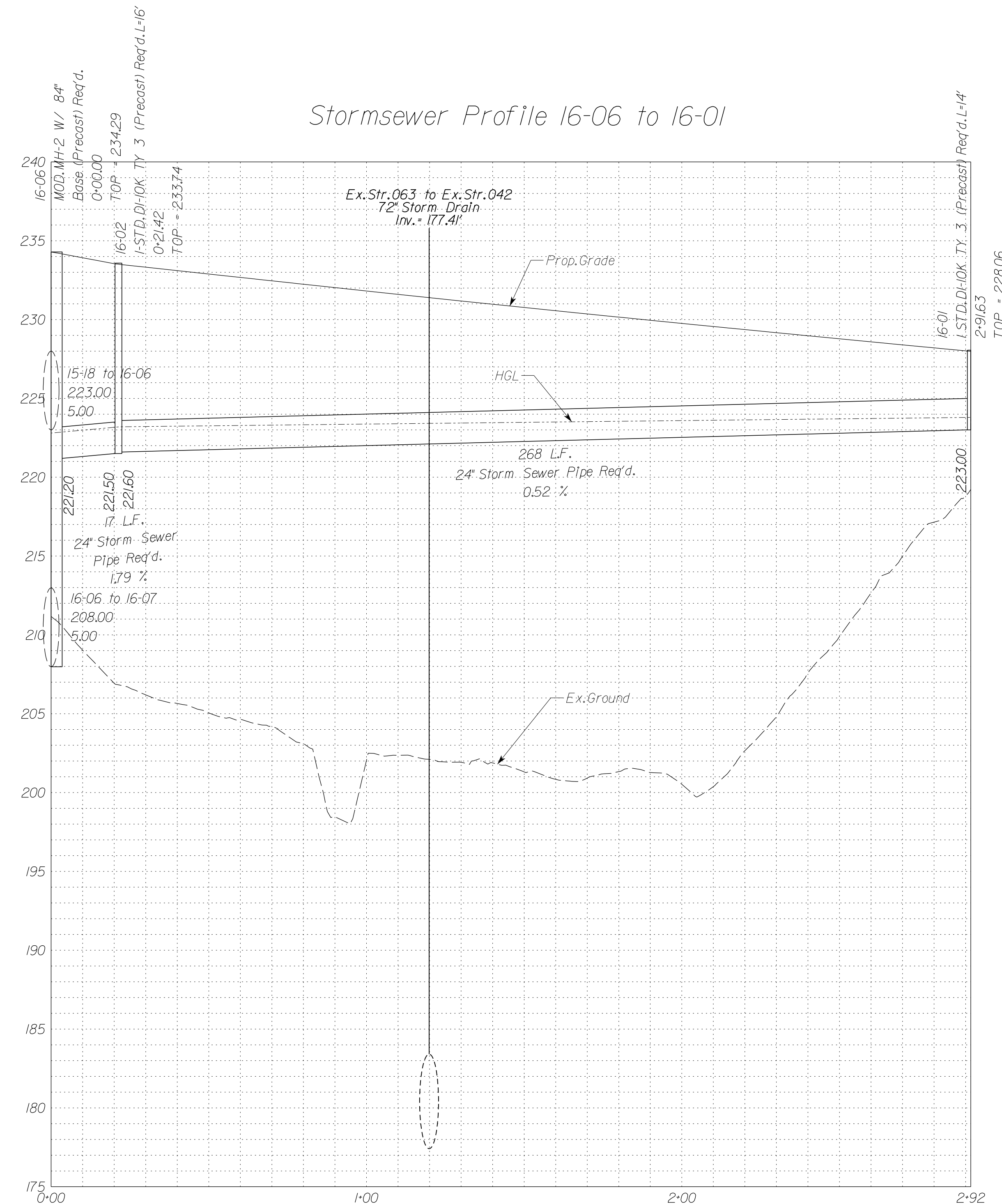
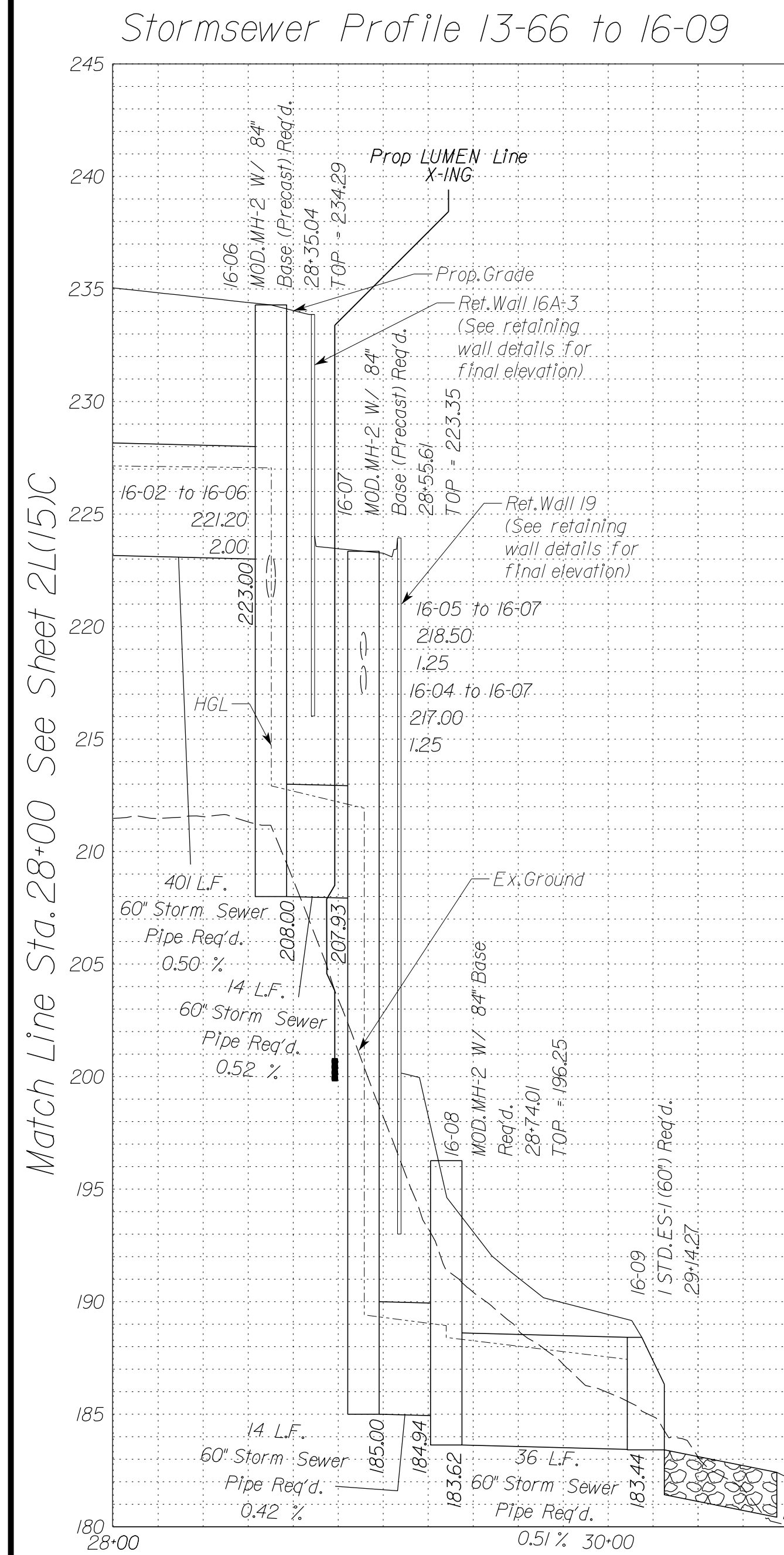
Storm Sewer Profiles



REVISED	STATE	ROUTE	STATE	VDOT PROJECT NO.	SHEET NO.
	VA	495		0495-029-419 C501 RW201	2L161C AREA 4

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

Rinker Design Assoc., P.C.
 Manassas, Virginia
 (HYDRAULICS ENGINEER)

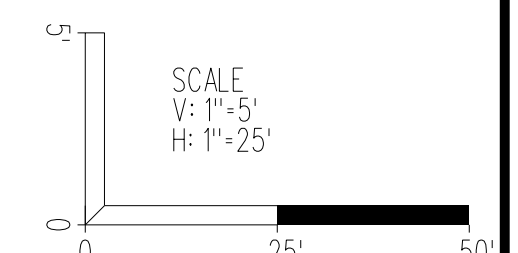


NOVA DISTRICT

10/26/2022

In addition to the visual inspection performed by the Department during the initial installation of storm sewer pipes and pipe culverts, a post installation visual/video camera inspection shall be conducted by the Contractor on all storm sewer pipes and a selected number of pipe culverts in accordance with the requirements of this specification and VTM 123.

Utility Crossings are shown at assumed depths. Elevations are to be updated once test hole data has been finalized.

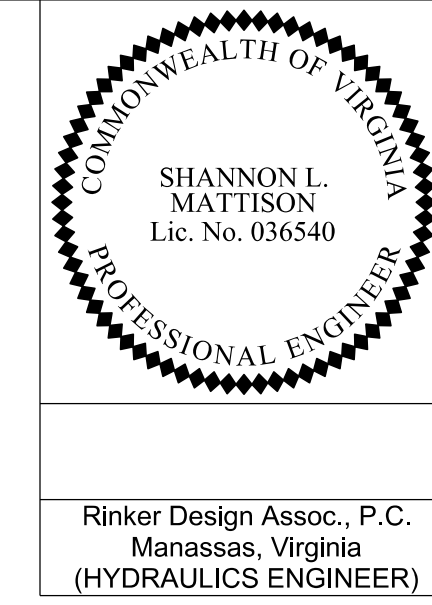


VDOT PROJECT NO. 0495-029-419
 SHEET NO. 2L161C
 AREA 4

APPROVED FOR CONSTRUCTION

PROJECT MANAGER VDOT - Rupal Shah, P.E. (703) 259-2362
SURVEYED BY, DATE RDA - Nicholas Kougaull's, L.S. (703) 334-0837, 12/2021
DESIGN BY RDA - Darrell Fischer, P.E. (703) 334-0823
SUBSURFACE UTILITY BY, DATE Accurmark - Michael Taylor, L.S. (703) 635-3060, 12/2021

Storm Sewer Profiles

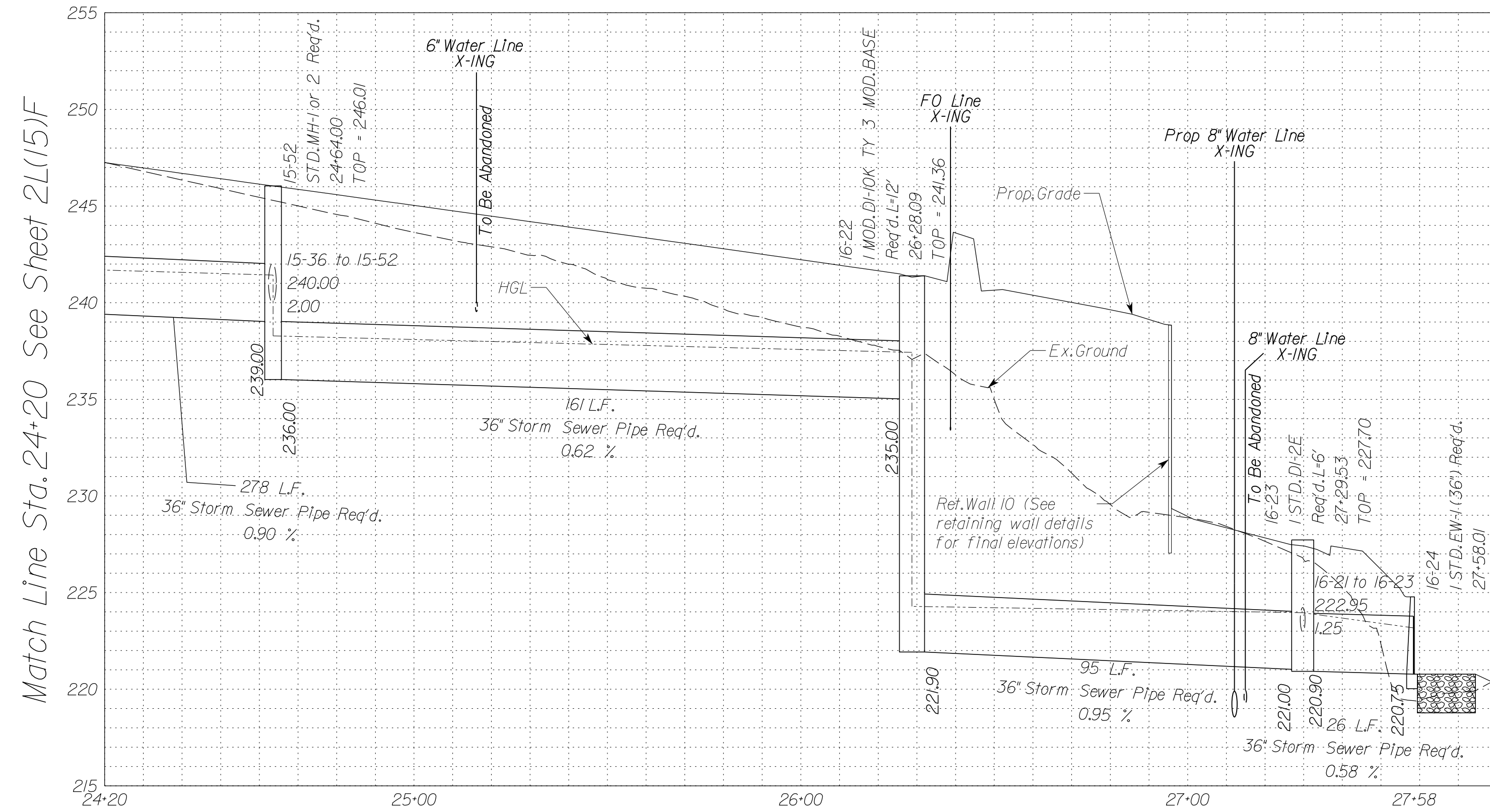


REVISED	STATE	ROUTE	STATE	VDOT PROJECT NO.	SHEET NO.
	VA	495		0495-029-419 C501 RW201	2L161D AREA 4

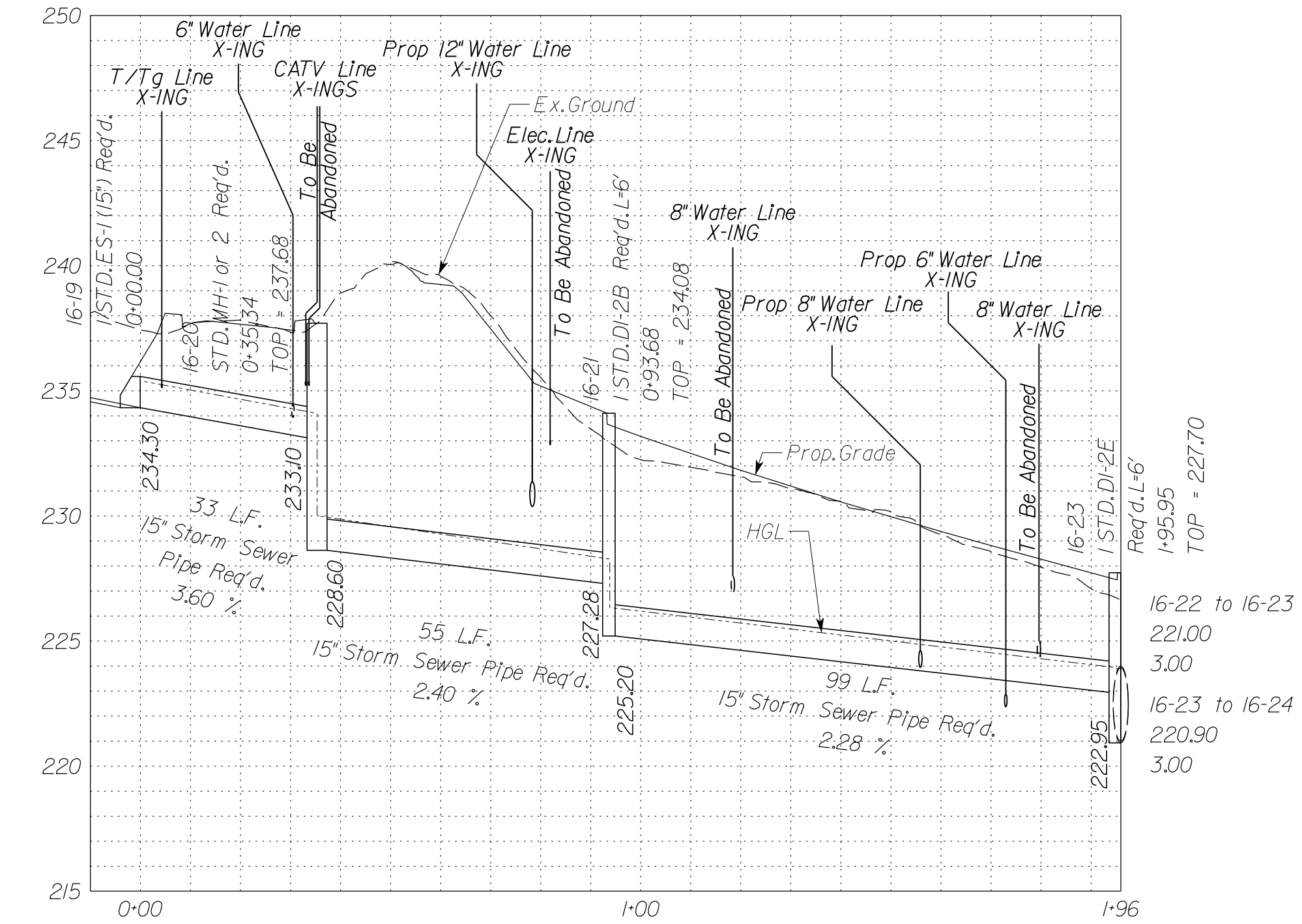
DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT

Rinker Design Assoc., P.C.
Manassas, Virginia
(HYDRAULICS ENGINEER)

Stormsewer Profile 13-56 to 16-24

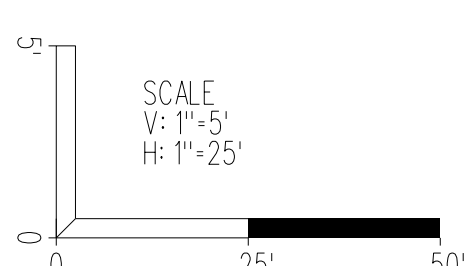


Stormsewer Profile 16-19 to 16-23



In addition to the visual inspection performed by the Department during the initial installation of storm sewer pipes and pipe culverts, a post installation visual/video camera inspection shall be conducted by the Contractor on all storm sewer pipes and a selected number of pipe culverts in accordance with the requirements of this specification and VTM 12.3.

Utility Crossings are shown at assumed depths. Elevations are to be updated once test hole data has been finalized.



VDOT PROJECT NO. 0495-029-419	SHEET NO. 2L161D AREA 4
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APPROVED FOR CONSTRUCTION

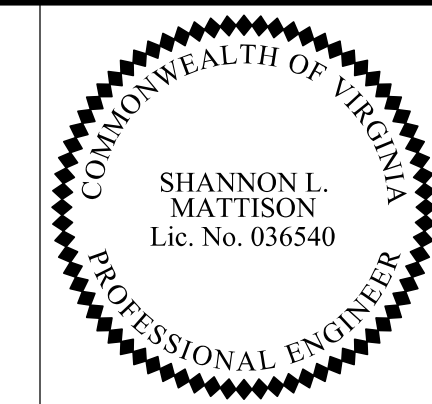
NOVA DISTRICT

PROJECT MANAGER VDOT - Rupal Shah, P.E. (703) 259-2362
 SURVEYED BY, DATE RDA - Nicholas Kaugauls, LS (703) 334-0837, 12/2021
 DESIGN BY RDA - Darrell Fischer, P.E. (703) 334-0823
 Dewberry - Ron Jakomlitch, P.E. (703) 849-0651
 SUBSURFACE UTILITY BY, DATE Accurmark - Michael Taylor, LS (703) 635-3060, 12/2021

In addition to the visual inspection performed by the Department during the initial installation of storm sewer pipes and pipe culverts, a post installation visual video camera inspection shall be conducted by the Contractor on all storm sewer pipes and a selected number of pipe culverts in accordance with the requirements of this specification and VTM 123.

Utility Crossings are shown at assumed depths. Elevations are to be updated once test hole data has been finalized.

Storm Sewer Profiles

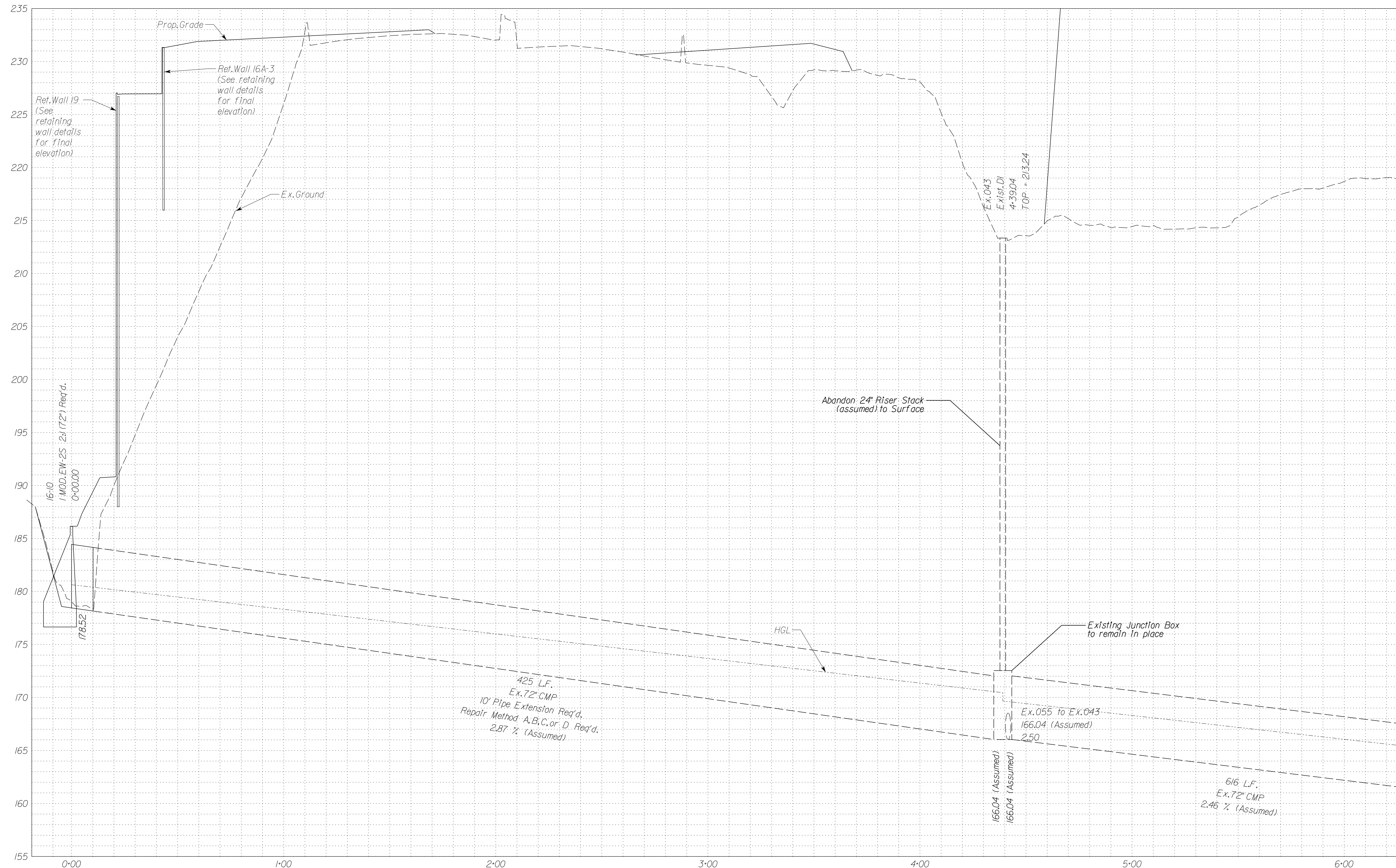


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 (HYDRAULICS ENGINEER)

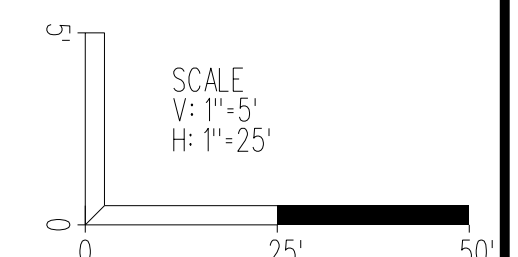
REVISED	STATE	ROUTE	STATE	VDOT PROJECT NO.	SHEET NO.
	VA.	495		0495-029-419 C501 RW201	2L1161E AREA 4

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

Stormsewer Profile 16-10 to Ex.042



Match Line Sta. 6+30 See Sheet 2L1161F



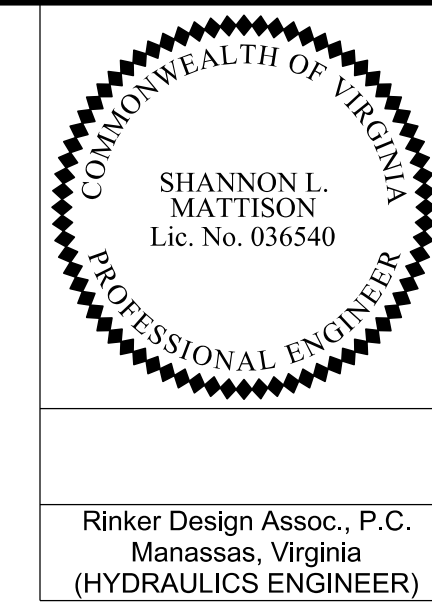
VDOT PROJECT NO. 0495-029-419	SHEET NO. 2L1161E AREA 4
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APPROVED FOR CONSTRUCTION

NOVA DISTRICT

PROJECT MANAGER VDOT - Rupal Shah, PE, (703) 259-2362
SURVEYED BY, DATE RDA - Nicholas Kougoullis, LS, (703) 334-0837, 12/2021
DESIGN BY RDA - Darrell Fischer, PE, (703) 334-0823
Dewberry - Ron Jakomlitch, PE, (703) 849-0651
SUBSURFACE UTILITY BY, DATE Accurark - Michael Taylor, LS, (703) 635-3060, 12/2021

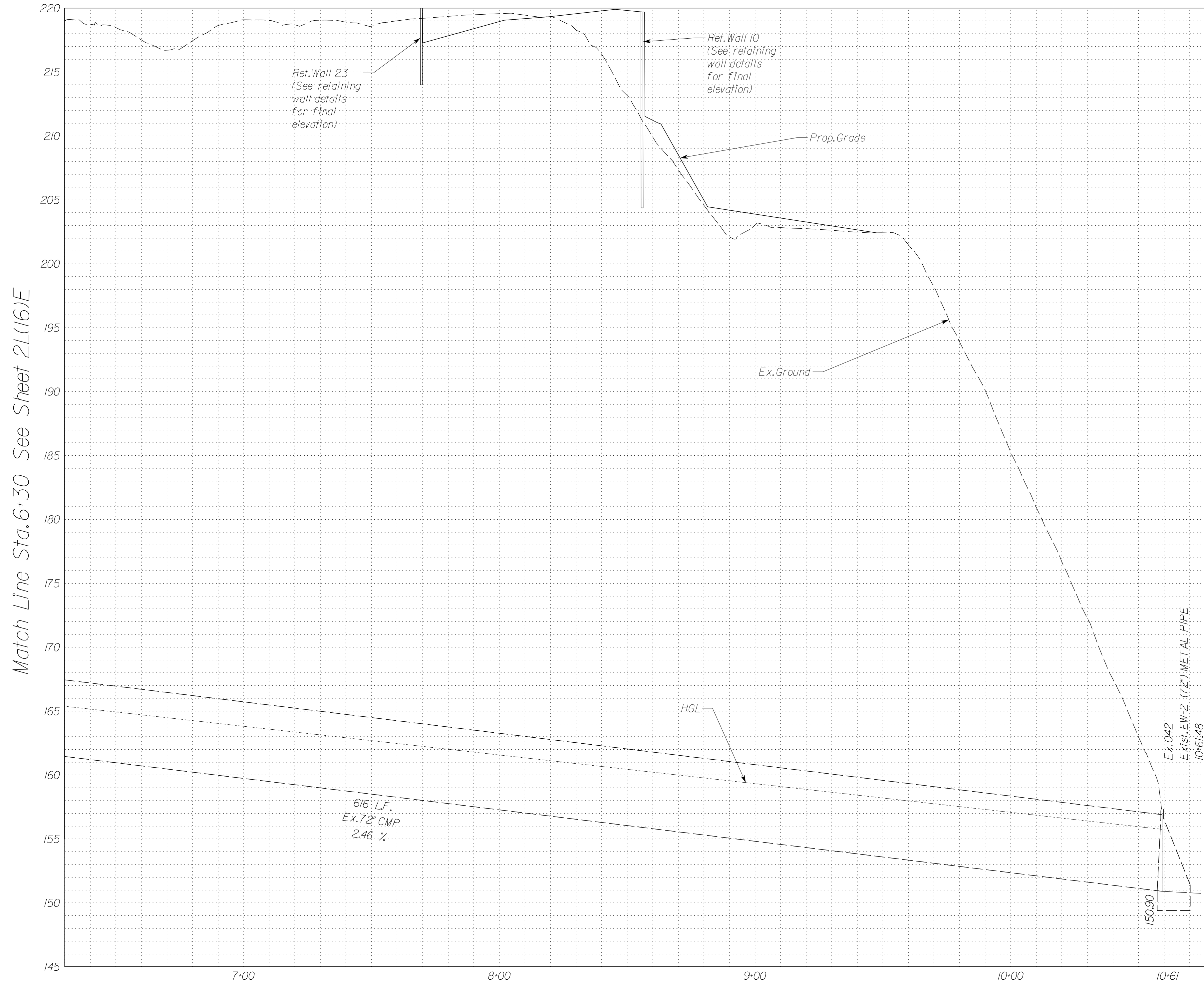
Storm Sewer Profiles



REVISED	STATE	ROUTE	STATE	VDOT PROJECT NO.	SHEET NO.
	VA.	495		0495-029-419 C501 RW201	2L1616F AREA 4

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

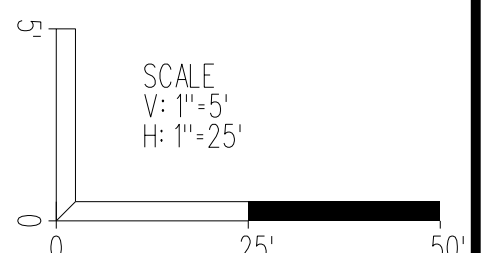
Stormsewer Profile 16-10 to Ex.042



NOVA DISTRICT

10/26/2022

In addition to the visual inspection performed by the Department during the initial installation of storm sewer pipes and pipe culverts, a post installation visual/video camera inspection shall be conducted by the Contractor on all storm sewer pipes and a selected number of pipe culverts in accordance with the requirements of this specification and VTM 123.
Utility Crossings are shown at assumed depths. Elevations are to be updated once test hole data has been finalized.



VDOT PROJECT NO. 0495-029-419	SHEET NO. 2L1616F AREA 4
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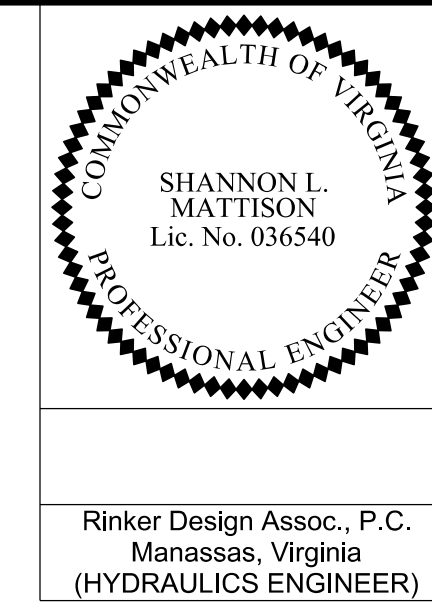
APPROVED FOR CONSTRUCTION

PROJECT MANAGER VDOT - Rupal Shah, PE, (703) 259-2362
 SURVEYED BY, DATE RDA - Nicholas Kaugaulis, LS, (703) 334-0837, 12/2021
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 SUBSURFACE UTILITY BY, DATE Accurmark - Michael Taylor, LS, (703) 635-3060, 12/2021

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Utility Crossings are shown at assumed depths. Elevations are to be updated once test hole data has been finalized.

Storm Sewer Profiles

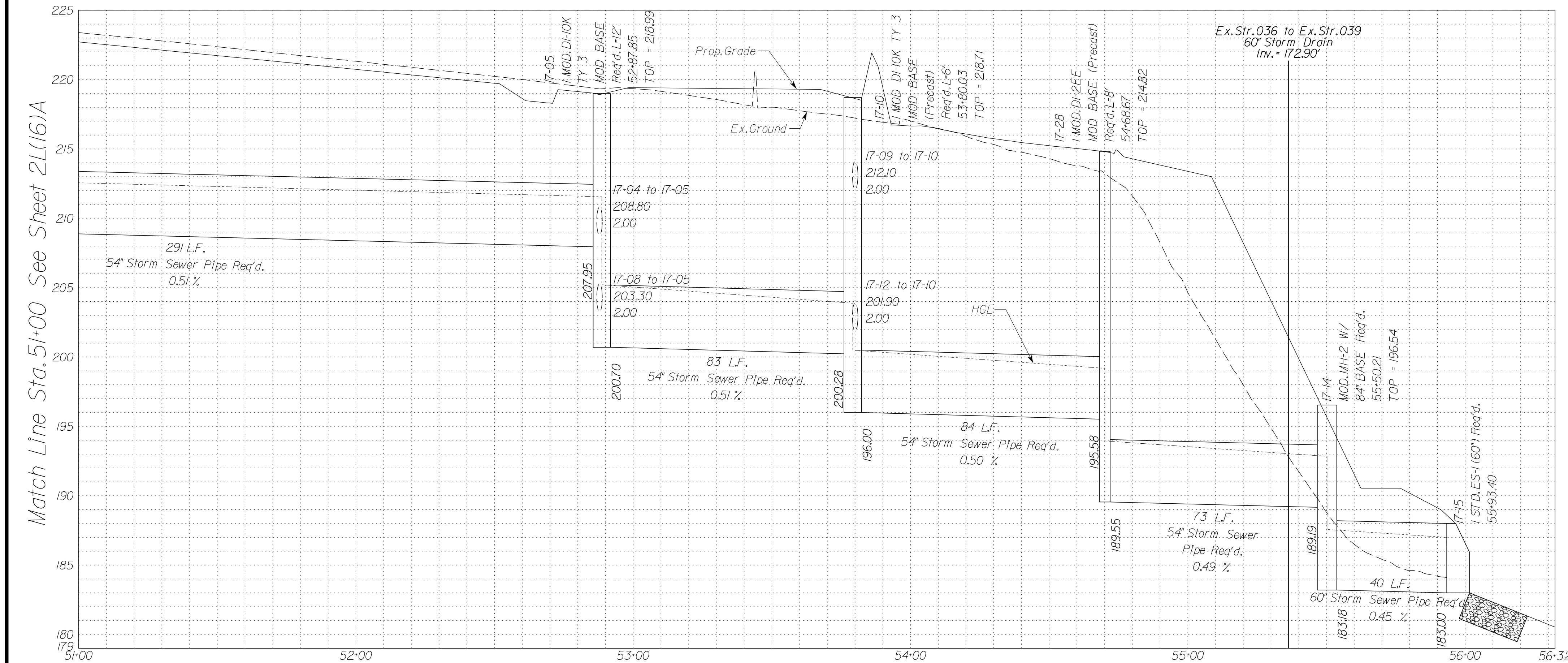


Rinker Design Assoc., P.C.
 Manassas, Virginia
 (HYDRAULICS ENGINEER)

REVISED	STATE	ROUTE	STATE	VDOT PROJECT NO.	SHEET NO.
	VA.	495		0495-029-419 C501 RW201	2L(17)A AREA 4

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

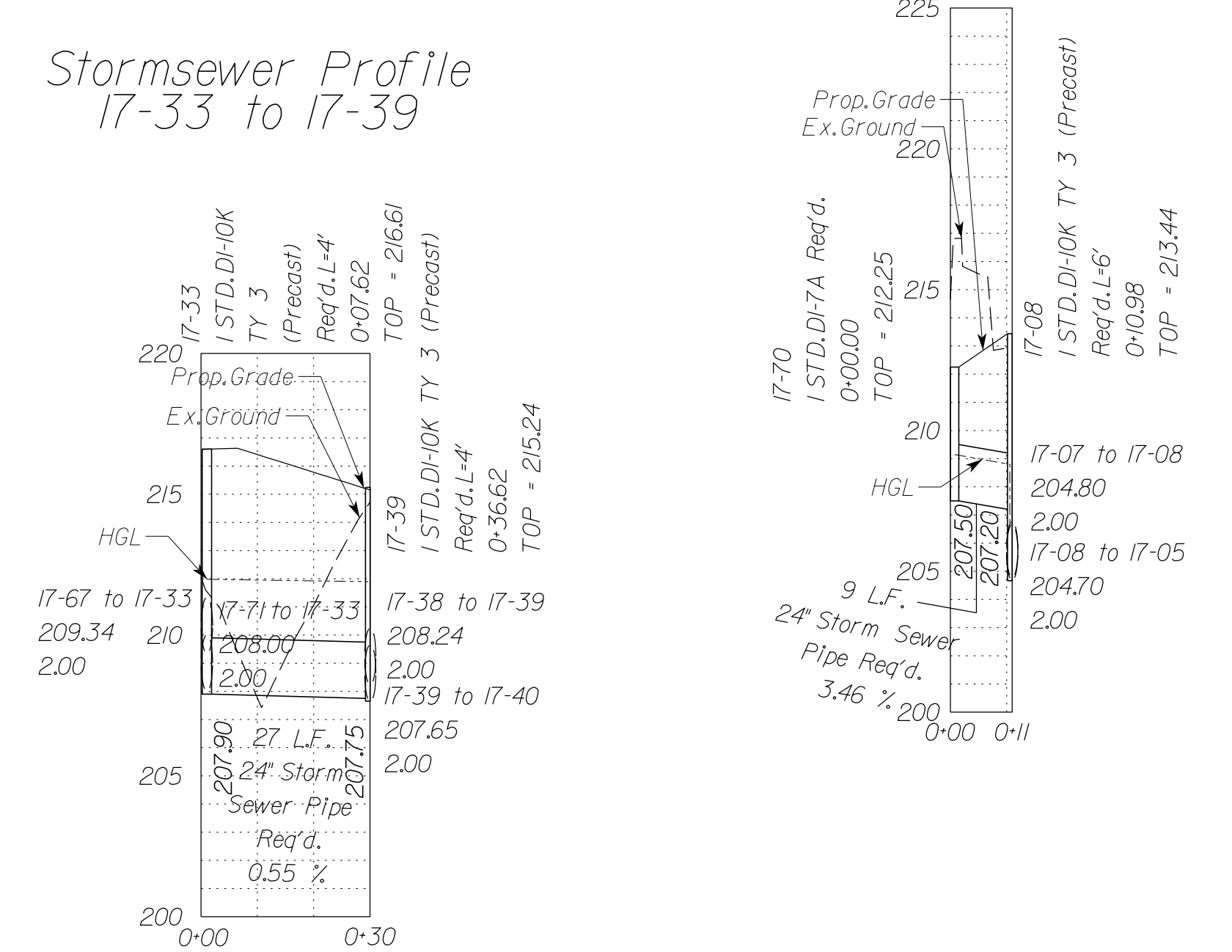
Stormsewer Profile 12-19 to 17-15



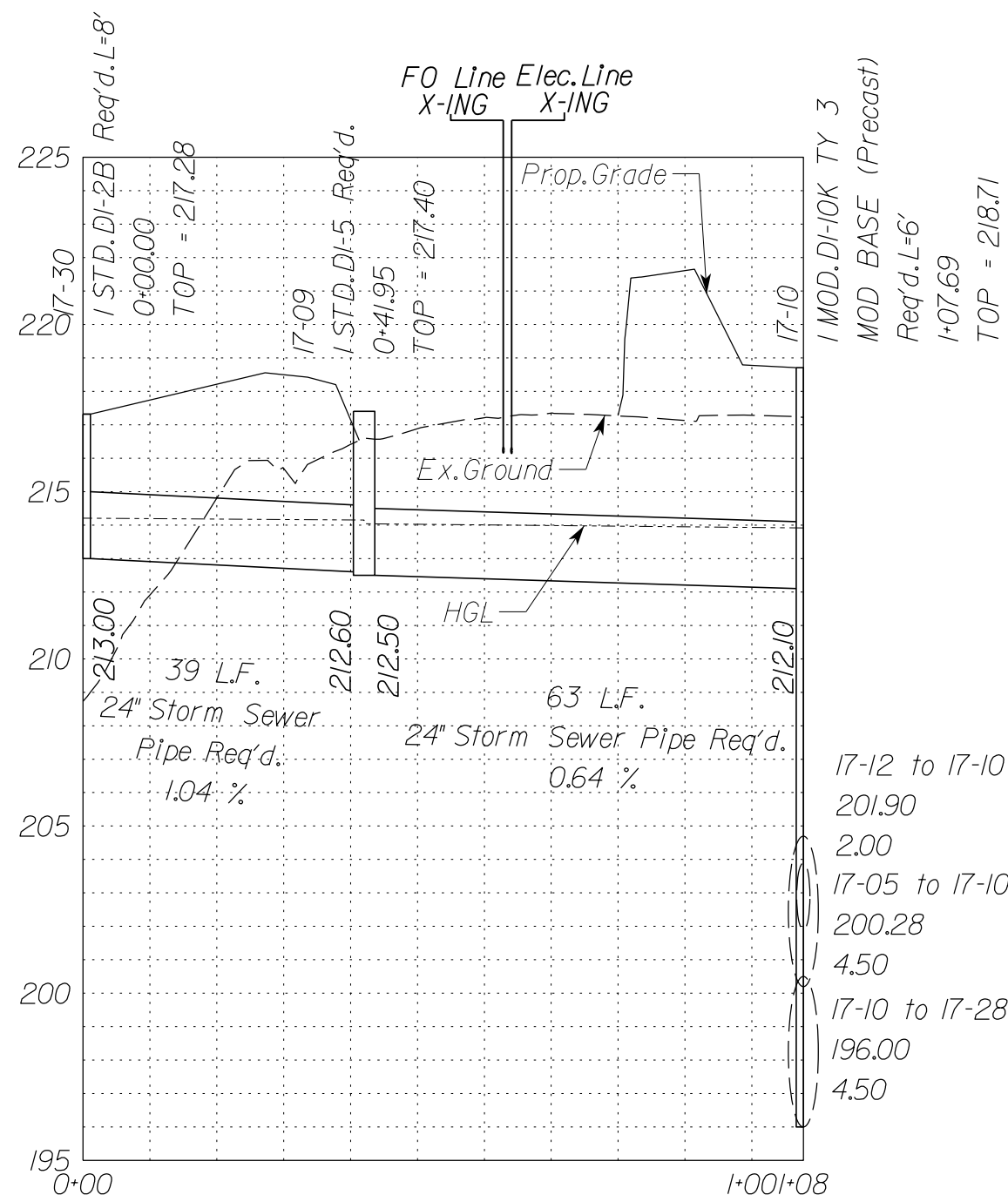
Match Line Sta. 51+00 See Sheet 2L(16)A

Stormsewer Profile 17-70 to 17-08

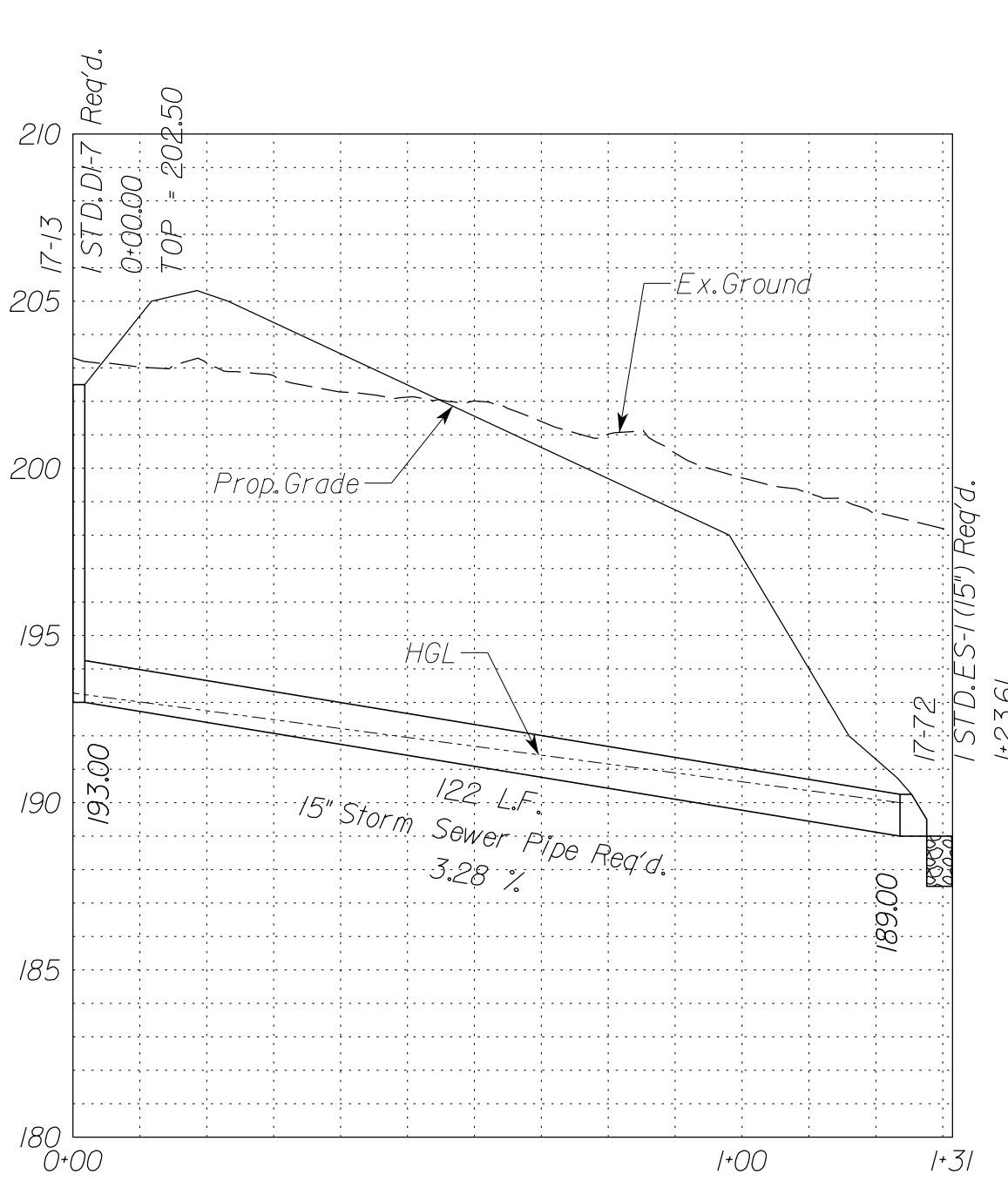
Stormsewer Profile 17-33 to 17-39



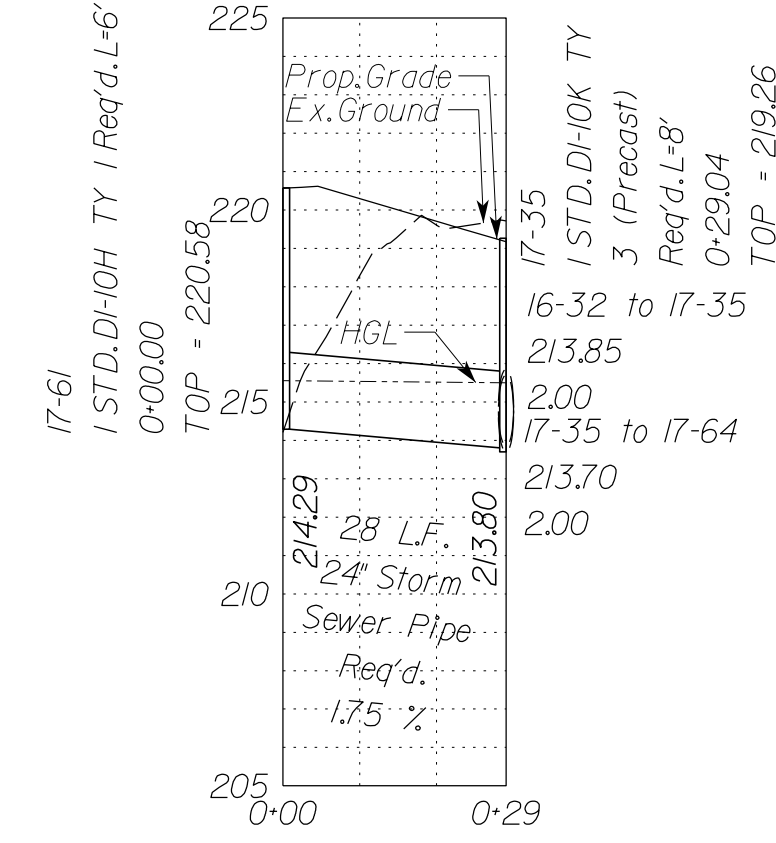
Stormsewer Profile 17-30 to 17-10



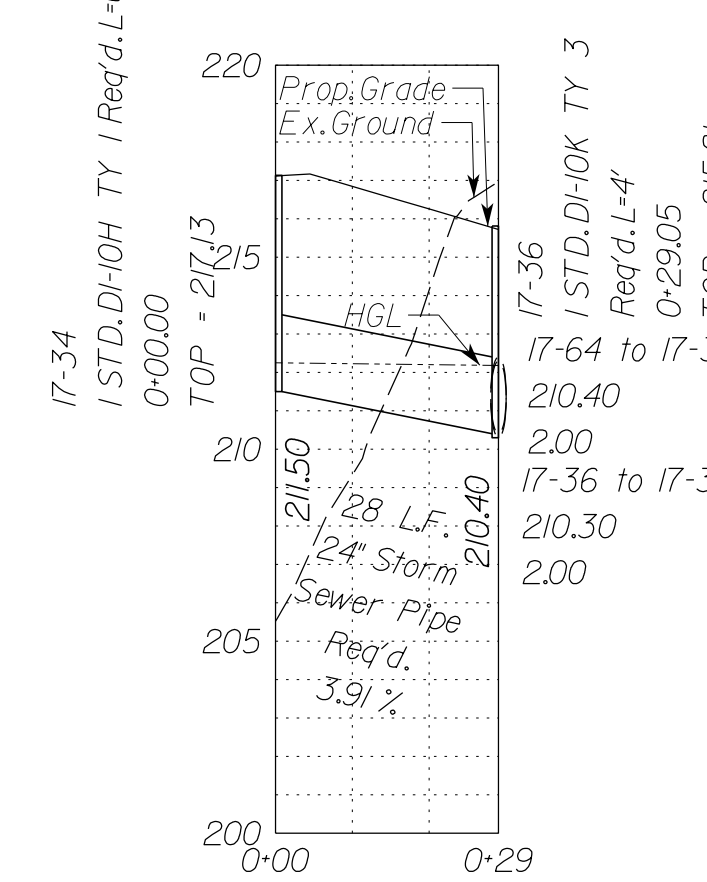
Stormsewer Profile 17-13 to 17-72



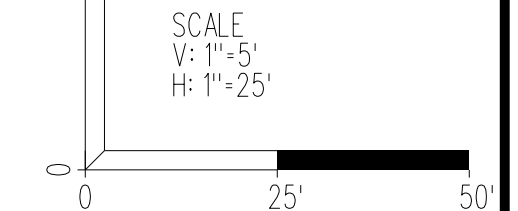
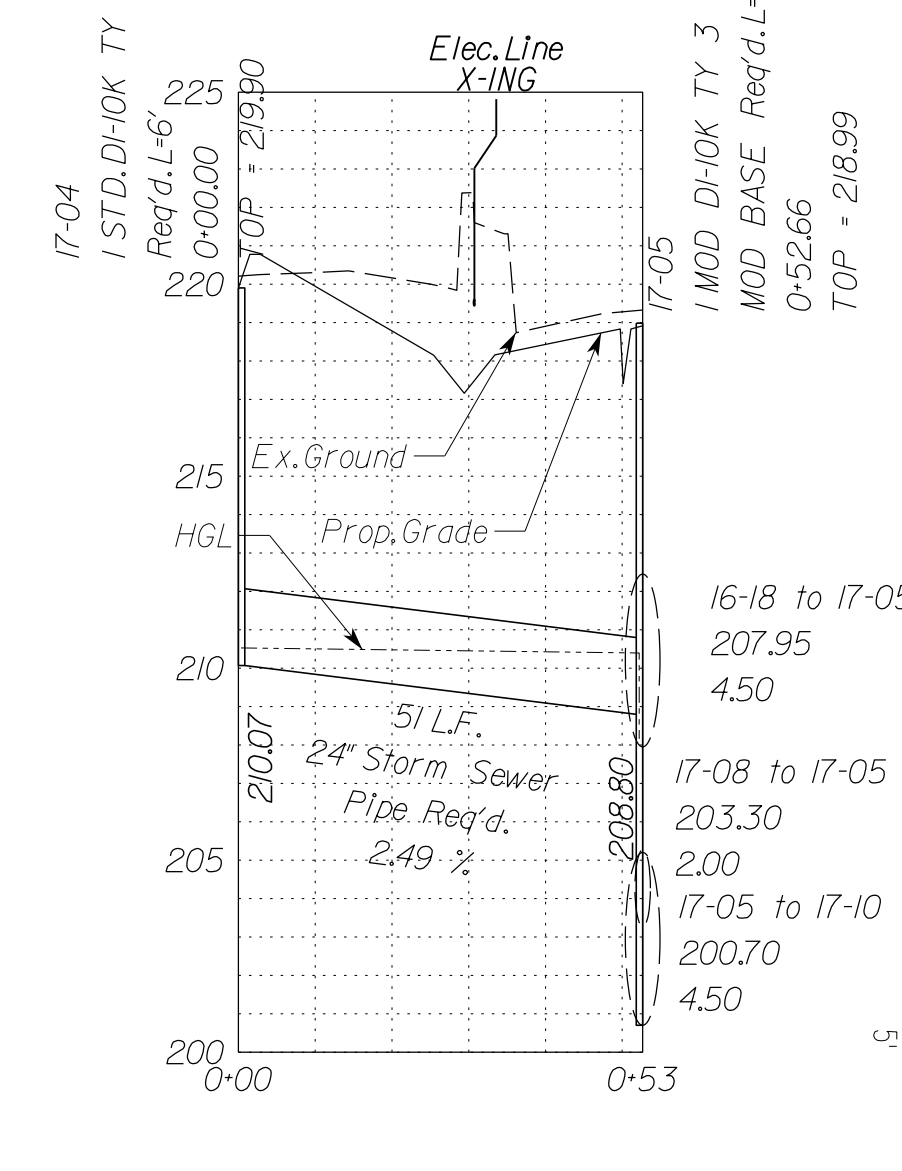
Stormsewer Profile 17-61 to 17-35



Stormsewer Profile 17-34 to 17-36



Stormsewer Profile 17-04 to 17-05



VDOT PROJECT NO. 0495-029-419	SHEET NO. 2L(17)A AREA 4
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APPROVED FOR CONSTRUCTION

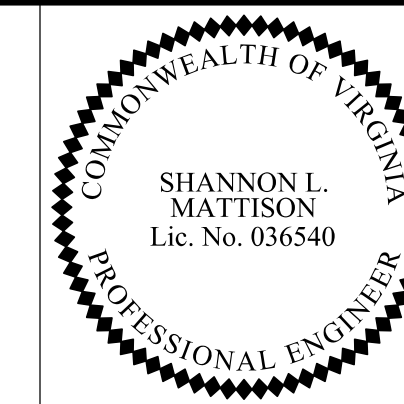
NOVA DISTRICT

PROJECT MANAGER VDOT - Rupal Shah, PE, (703) 259-2362
SURVEYED BY, DATE RDA - Nicholas Kaugaulis, LS, (703) 334-0837, 12/2021
DESIGN BY RDA - Darrell Fischer, PE, (703) 334-0823
SUBSURFACE UTILITY BY, DATE Accurmark - Michael Taylor, LS, (703) 635-3060, 12/2021

In addition to the visual inspection performed by the Department during the initial installation of storm sewer pipes and pipe culverts, a post installation visual/video camera inspection shall be conducted by the Contractor on all storm sewer pipes and a selected number of pipe culverts in accordance with the requirements of this specification and VTM 123.

Utility Crossings are shown at assumed depths. Elevations are to be updated once test hole data has been finalized.

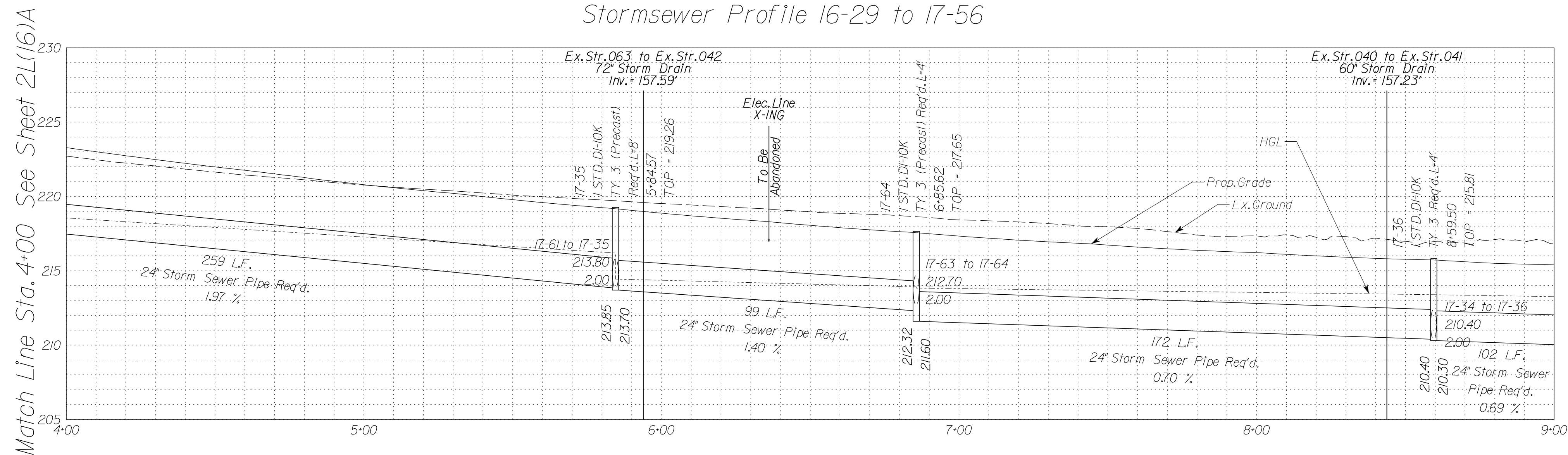
Storm Sewer Profiles



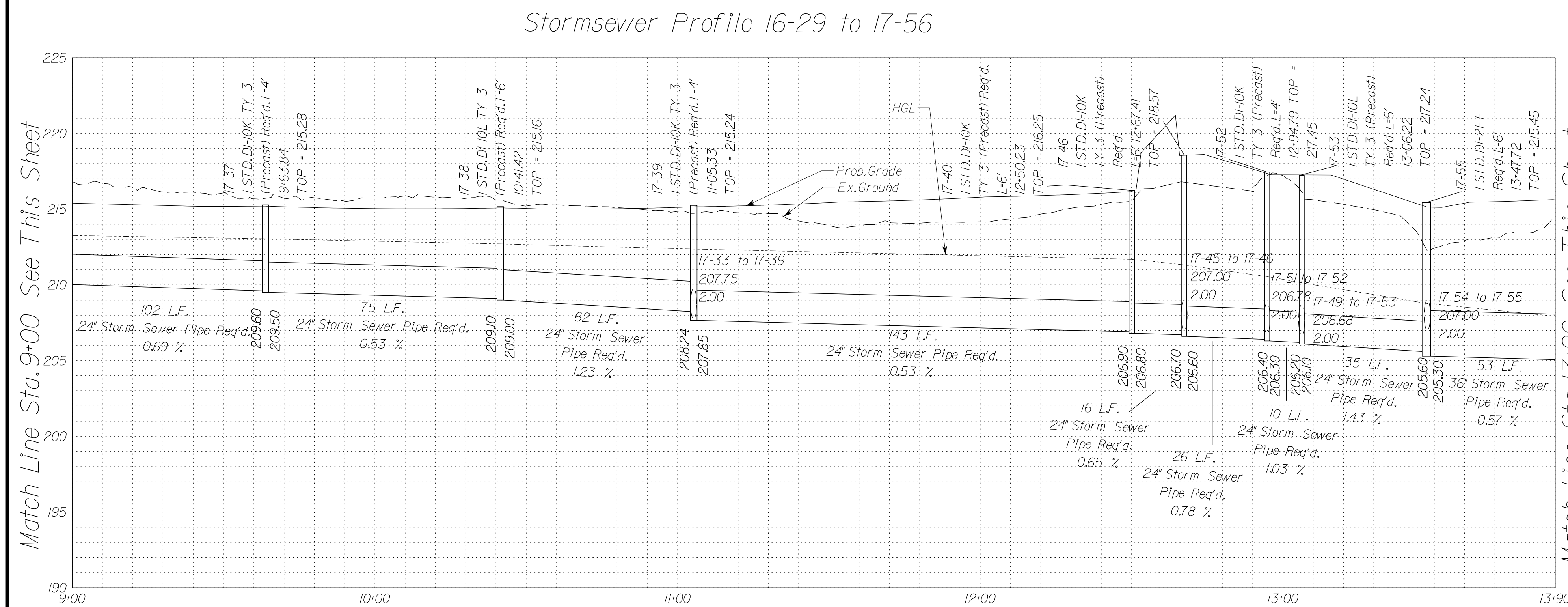
Rinker Design Assoc., P.C.
Manassas, Virginia
(HYDRAULICS ENGINEER)

REVISED	STATE	ROUTE	STATE	VDOT PROJECT NO.	SHEET NO.
	VA	495		0495-029-419 C501 RW201	2L171B AREA 4

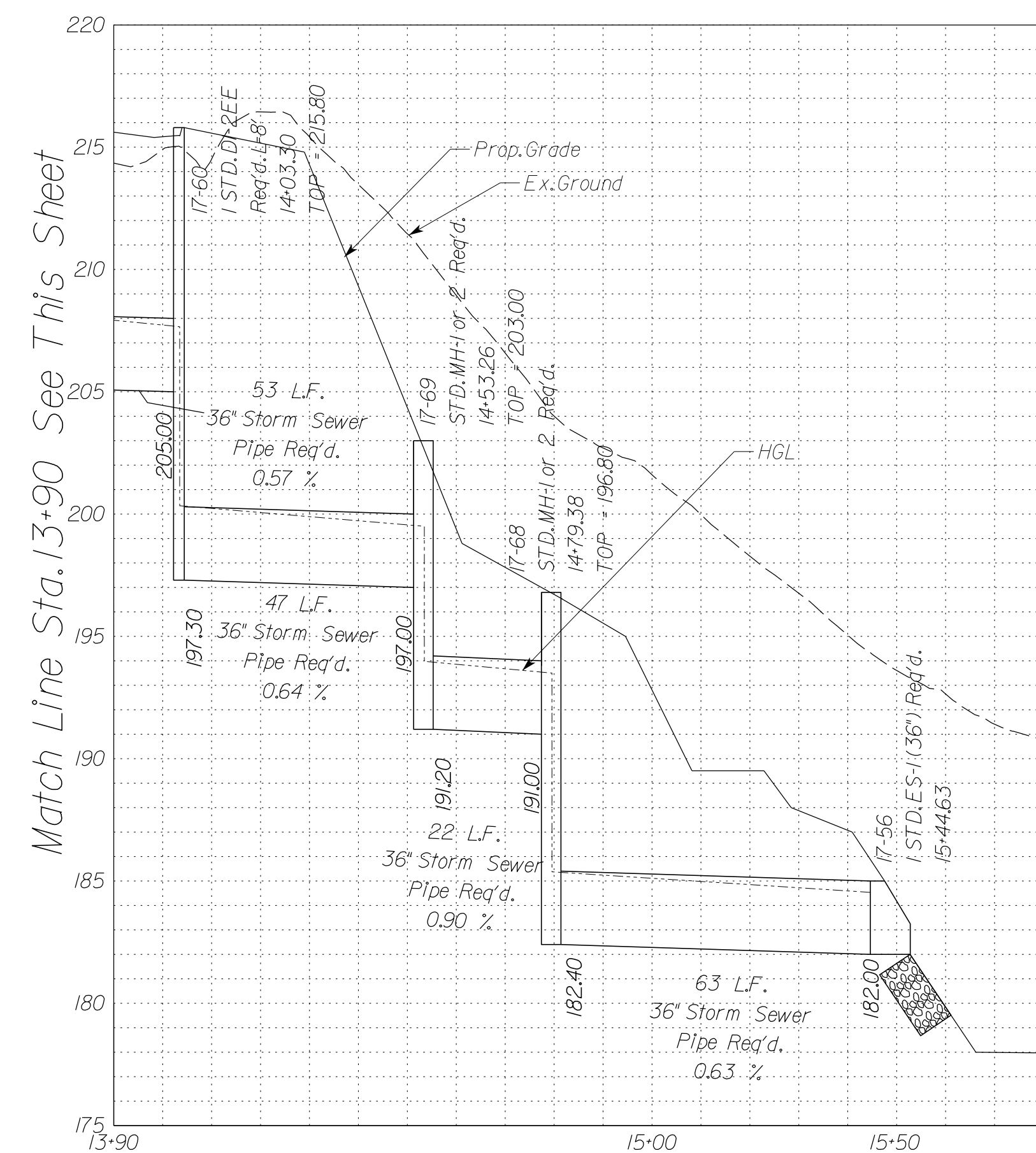
DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT



Stormsewer Profile 16-29 to 17-56



Stormsewer Profile 16-29 to 17-56



Stormsewer Profile 16-29 to 17-56

NOVA DISTRICT

10/26/2022

APPROVED FOR CONSTRUCTION

SCALE
V: 1"=5'
H: 1"=25'

VDOT PROJECT NO.
0495-029-419

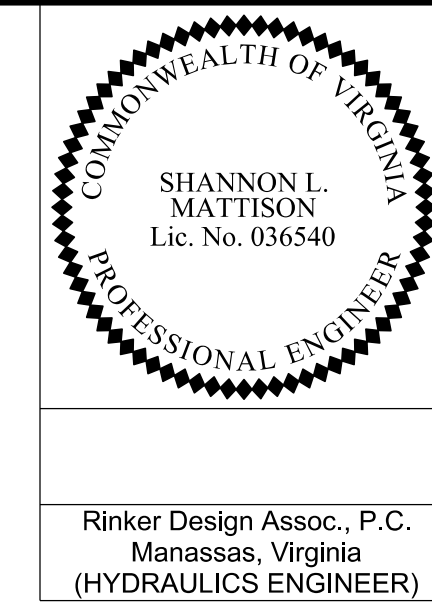
SHEET NO.
2L171B
AREA 4

PROJECT MANAGER VDOT - Rupal Shah, PE, (703) 259-2362
 SURVEYED BY, DATE RDA - Nicholas Kaugaulis, LS, (703) 334-0837, 12/2021
 DESIGN BY RDA - Darrell Fischer, PE, (703) 334-0823
 SUBSURFACE UTILITY BY, DATE Accumark - Michael Taylor, LS, (703) 635-3060, 12/2021

In addition to the visual inspection performed by the Department during the initial installation of storm sewer pipes and pipe culverts, a post installation visual video camera inspection shall be conducted by the Contractor on all storm sewer pipes and a selected number of pipe culverts in accordance with the requirements of this specification and VTM 123.

Utility Crossings are shown at assumed depths. Elevations are to be updated once test hole data has been finalized.

Storm Sewer Profiles

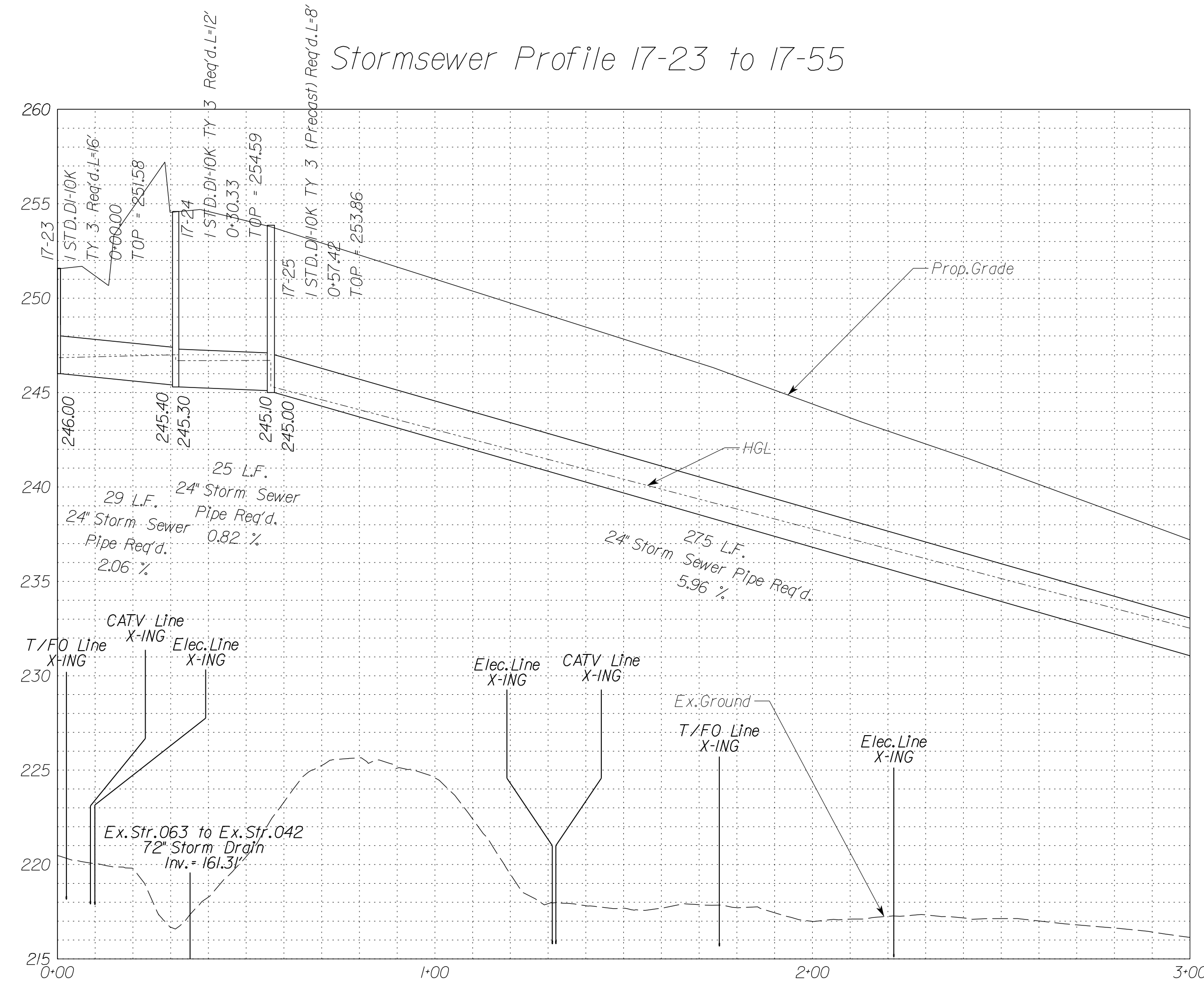


Rinker Design Assoc., P.C.
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 (HYDRAULICS ENGINEER)

REVISED	STATE	ROUTE	STATE	VDOT PROJECT NO.	SHEET NO.
	VA	495		0495-029-419 C501 RW201	2L171C AREA 4

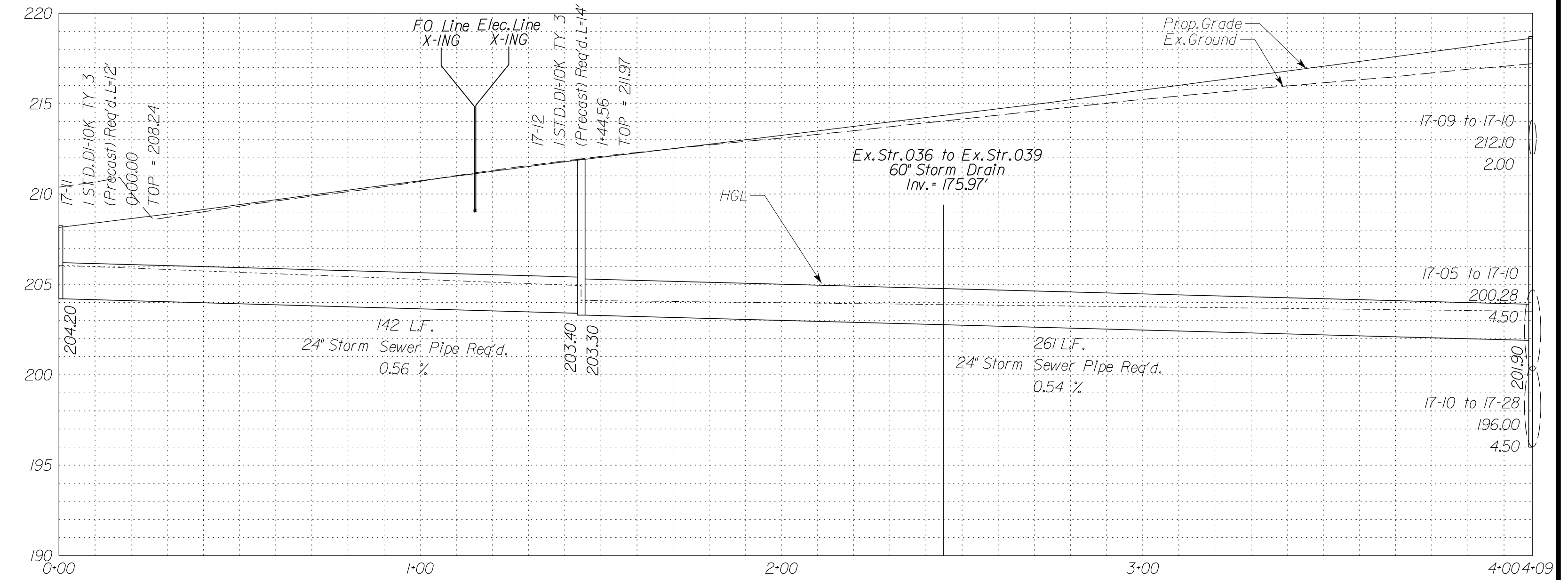
DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT

Stormsewer Profile 17-23 to 17-55

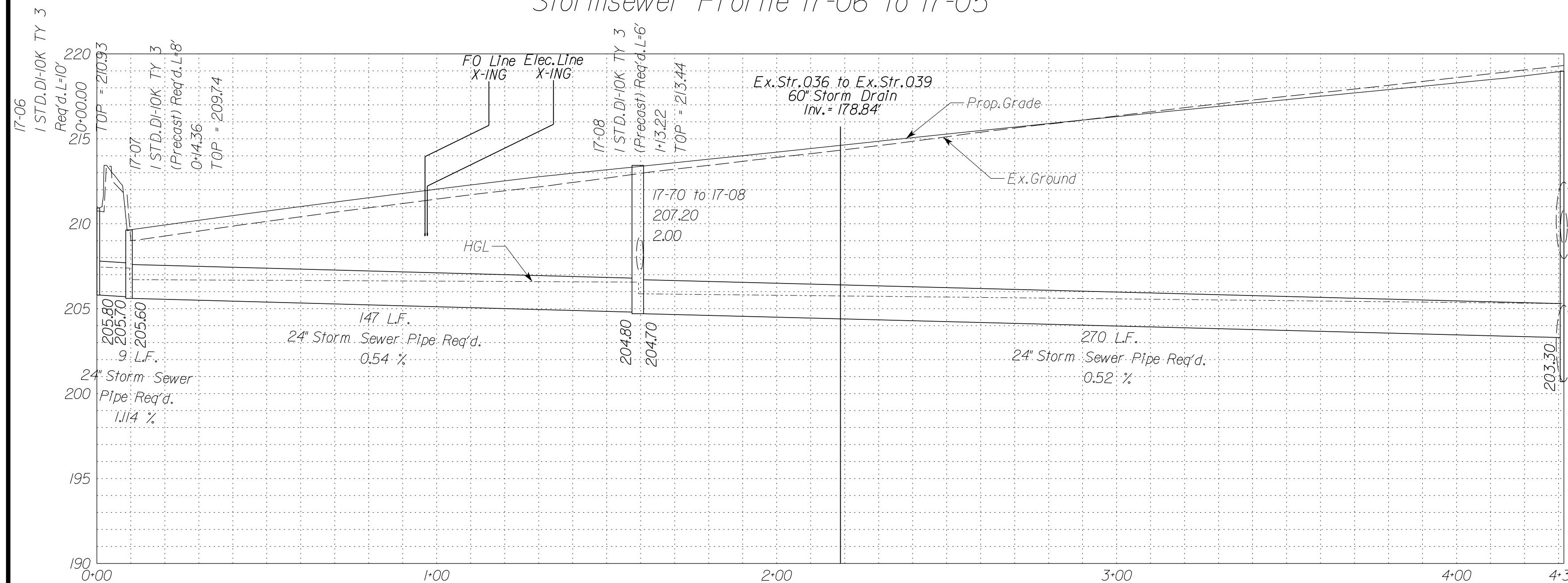


Match Line Sta. 3+00 See Sheet 2L171D

Stormsewer Profile 17-11 to 17-10



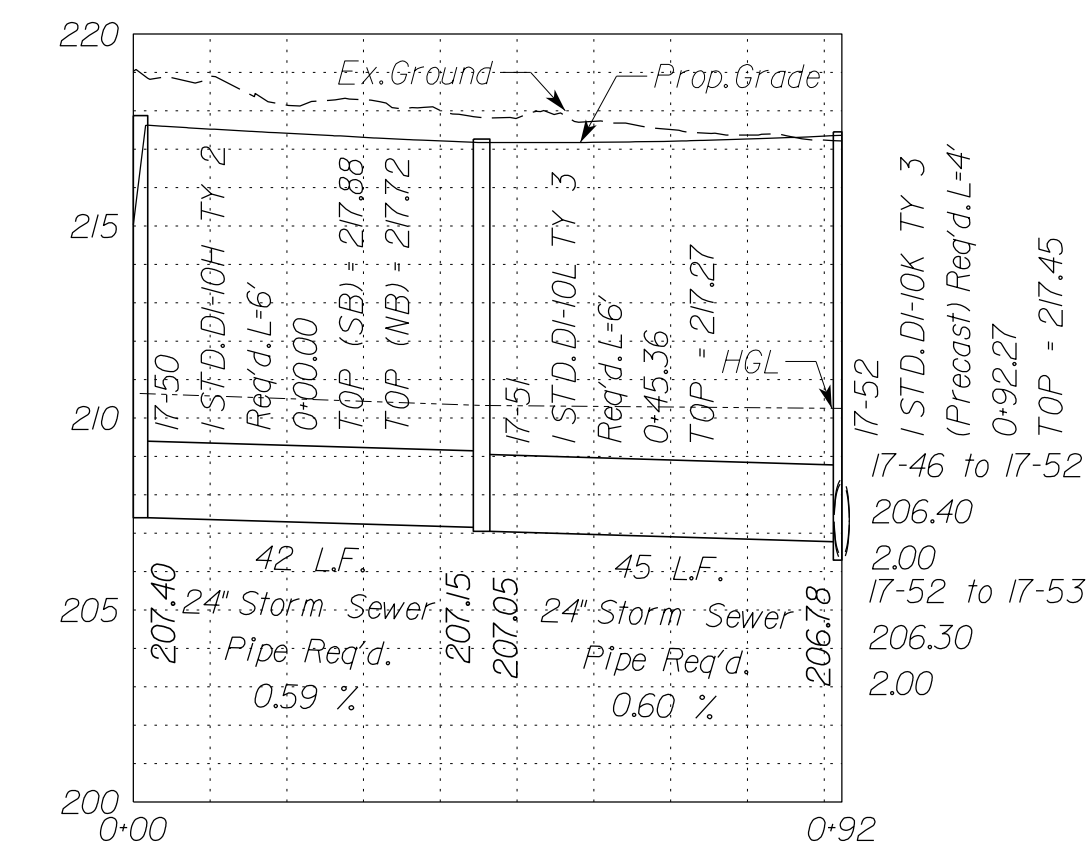
Stormsewer Profile 17-06 to 17-05



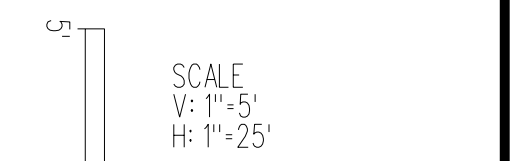
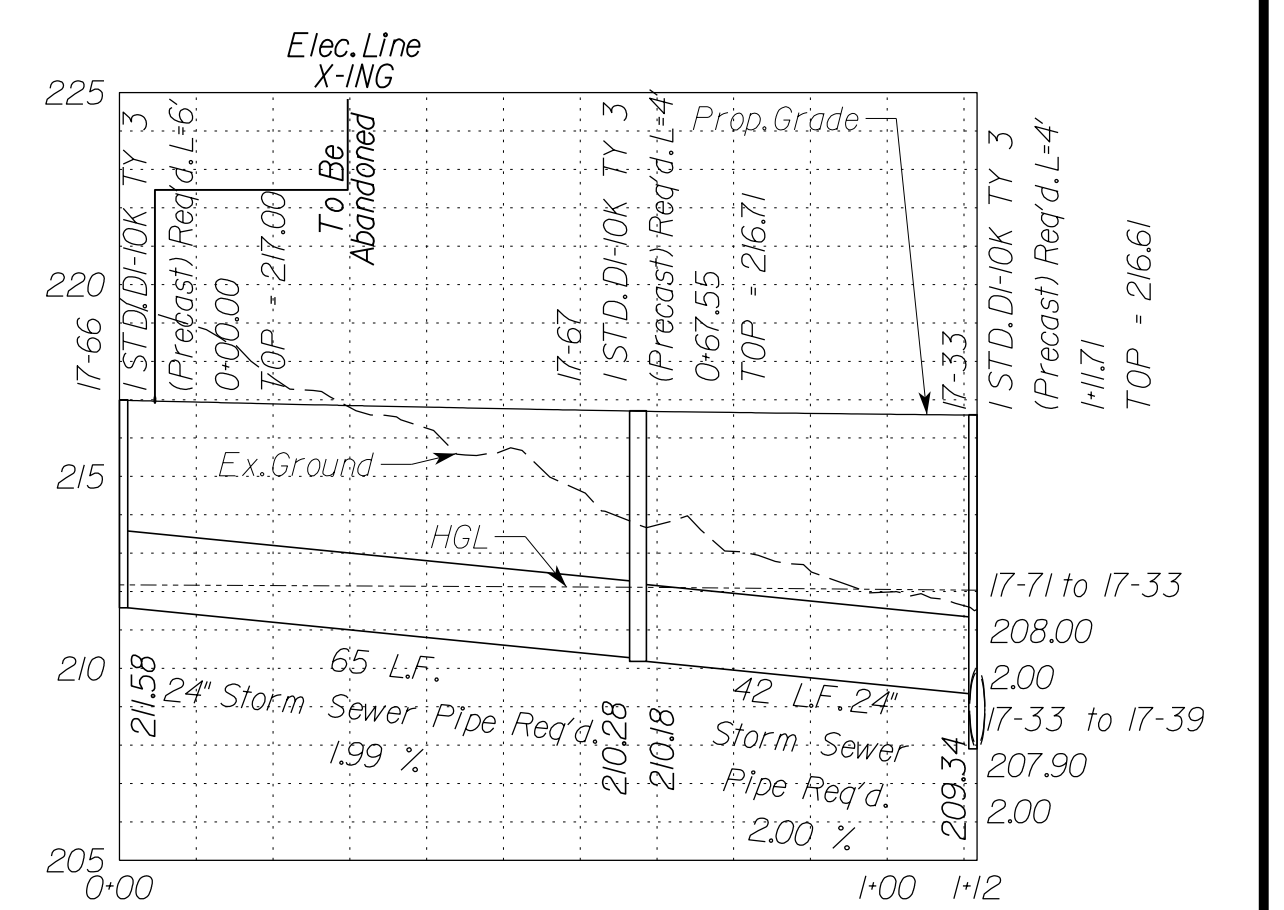
NOVA DISTRICT

10/26/2022

Stormsewer Profile 17-50 to 17-52



Stormsewer Profile 17-66 to 17-33



VDOT PROJECT NO. 0495-029-419	SHEET NO. 2L171C AREA 4
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APPROVED FOR CONSTRUCTION

PROJECT MANAGER VDOT - Rupal Shah, PE, (703) 259-2362
 SURVEYED BY, DATE RDA - Nicholas Kaugaulis, LS, (703) 334-0837, 12/2021
 DESIGN BY RDA - Darrell Fischer, PE, (703) 334-0823
 SUBSURFACE UTILITY BY, DATE Accumark - Michael Taylor, LS, (703) 635-3060, 12/2021

Storm Sewer Profiles

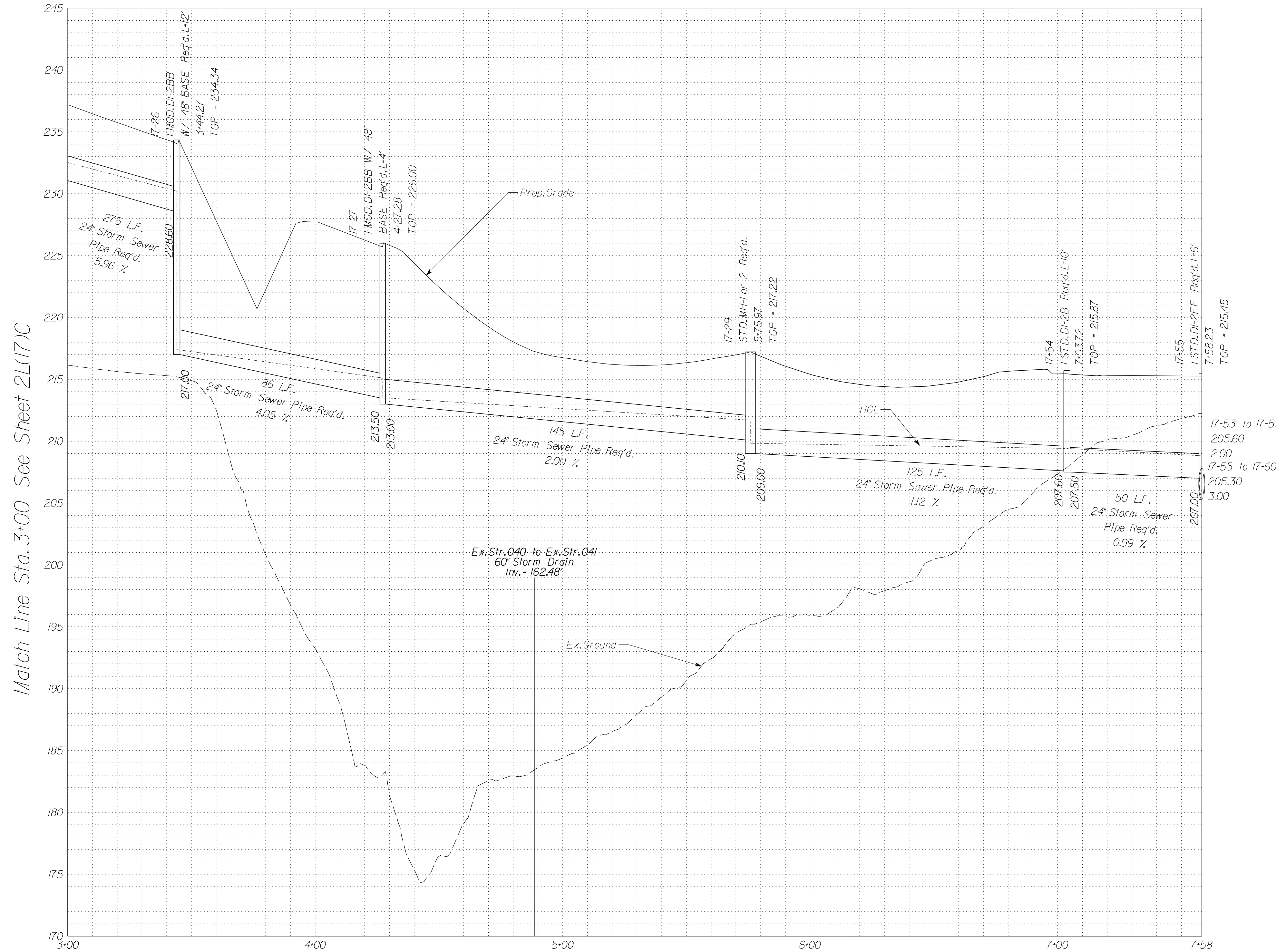
SHANNON L. MATTISON
 Lic. No. 036540
 COMMONWEALTH OF VIRGINIA
 PROFESSIONAL ENGINEER

Rinker Design Assoc., P.C.
 Manassas, Virginia
 (HYDRAULICS ENGINEER)

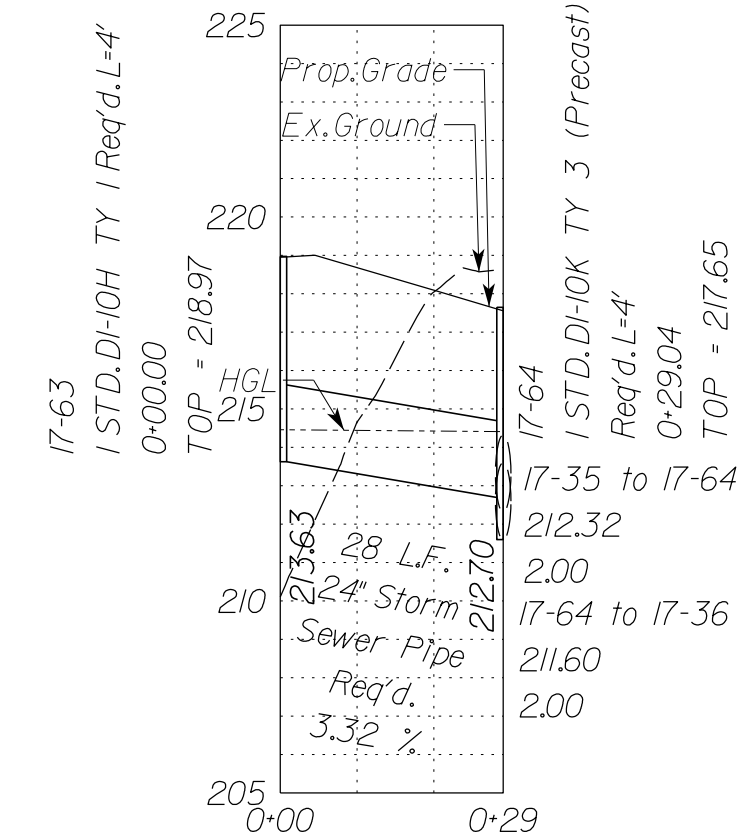
REVISED	STATE	ROUTE	STATE	VDOT PROJECT NO.	SHEET NO.
	VA.	495		0495-029-419 C501 RW201	2L(17)D AREA 4

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

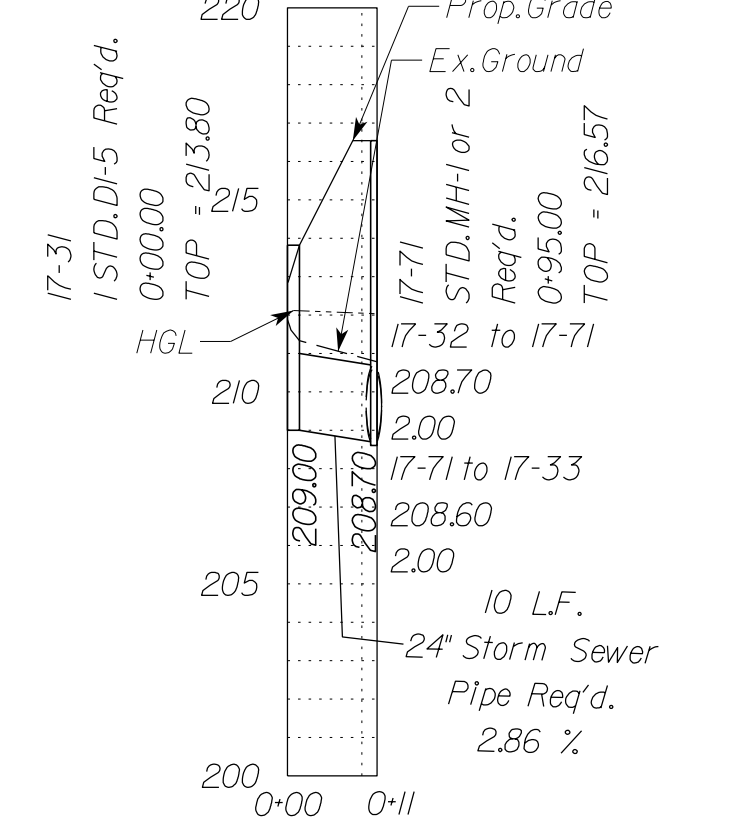
Stormsewer Profile 17-23 to 17-55



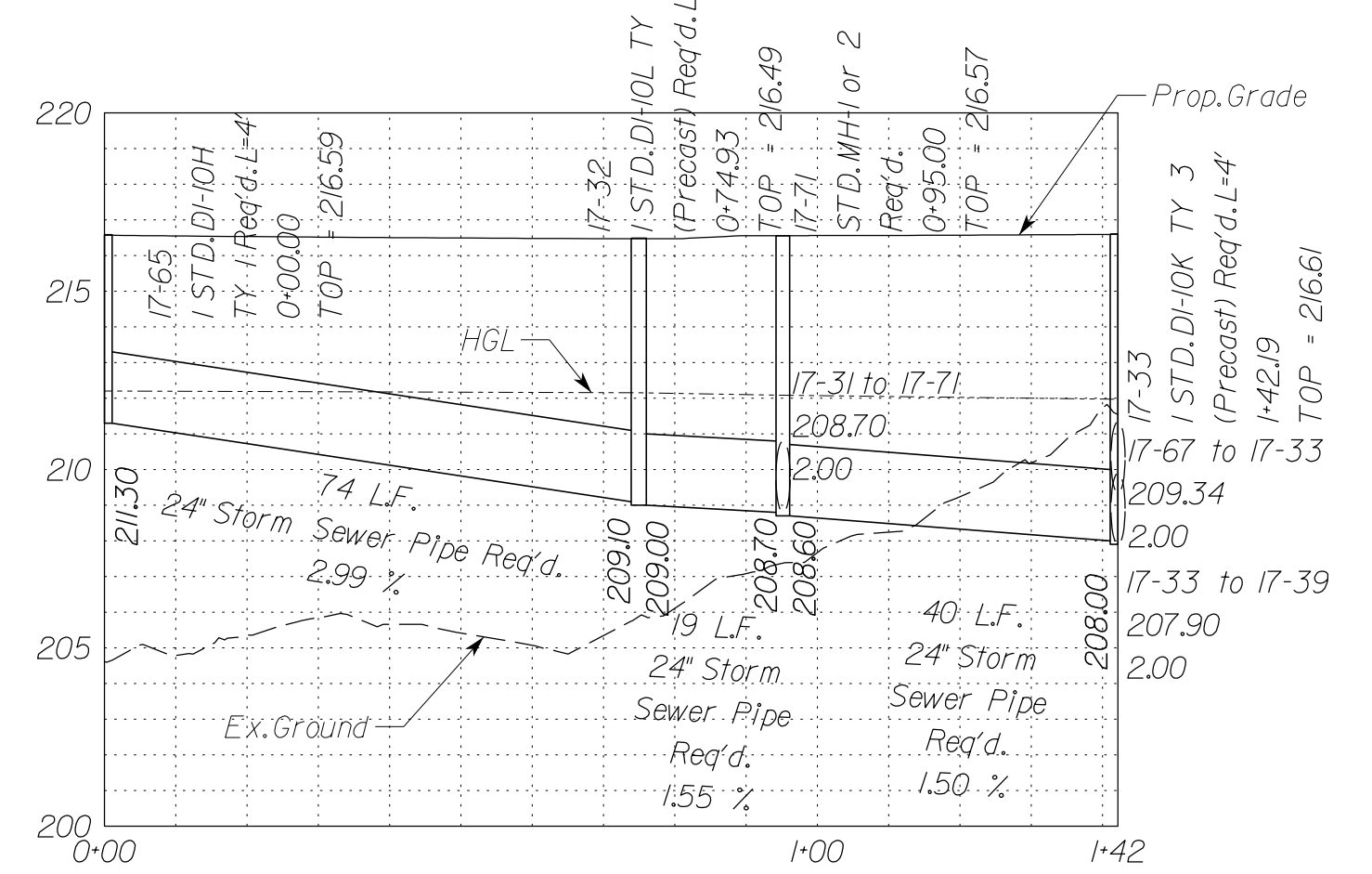
Stormsewer Profile 17-63 to 17-64



Stormsewer Profile 17-31 to 17-71

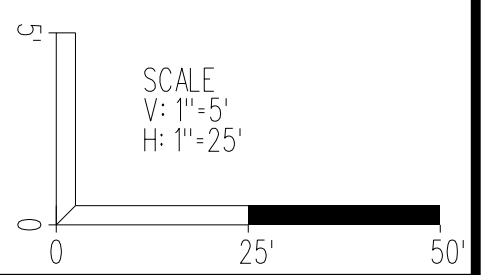


Stormsewer Profile 17-65 to 17-33



In addition to the visual inspection performed by the Department during the initial installation of storm sewer pipes and pipe culverts, a post installation visual/video camera inspection shall be conducted by the Contractor on all storm sewer pipes and a selected number of pipe culverts in accordance with the requirements of this specification and VTM 123.

Utility Crossings are shown at assumed depths. Elevations are to be updated once test hole data has been finalized.



VDOT PROJECT NO. 0495-029-419	SHEET NO. 2L(17)D AREA 4
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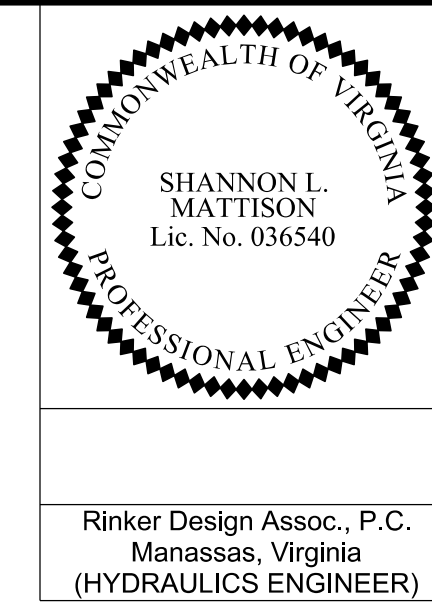
APPROVED FOR CONSTRUCTION

NOVA DISTRICT

10/26/2022

PROJECT MANAGER_VDOT - Rupal Shah, P.E. (703) 259-2362
SURVEYED BY, DATE_RDA - Nicholas Kaugaulis, L.S. (703) 334-0837, 12/2/2021
DESIGN BY_RDA - Darrell Fischer, P.E. (703) 334-0823
SUBSURFACE UTILITY BY, DATE_Accumark - Michael Taylor, L.S. (703) 635-3060, 12/2/2021

Storm Sewer Profiles

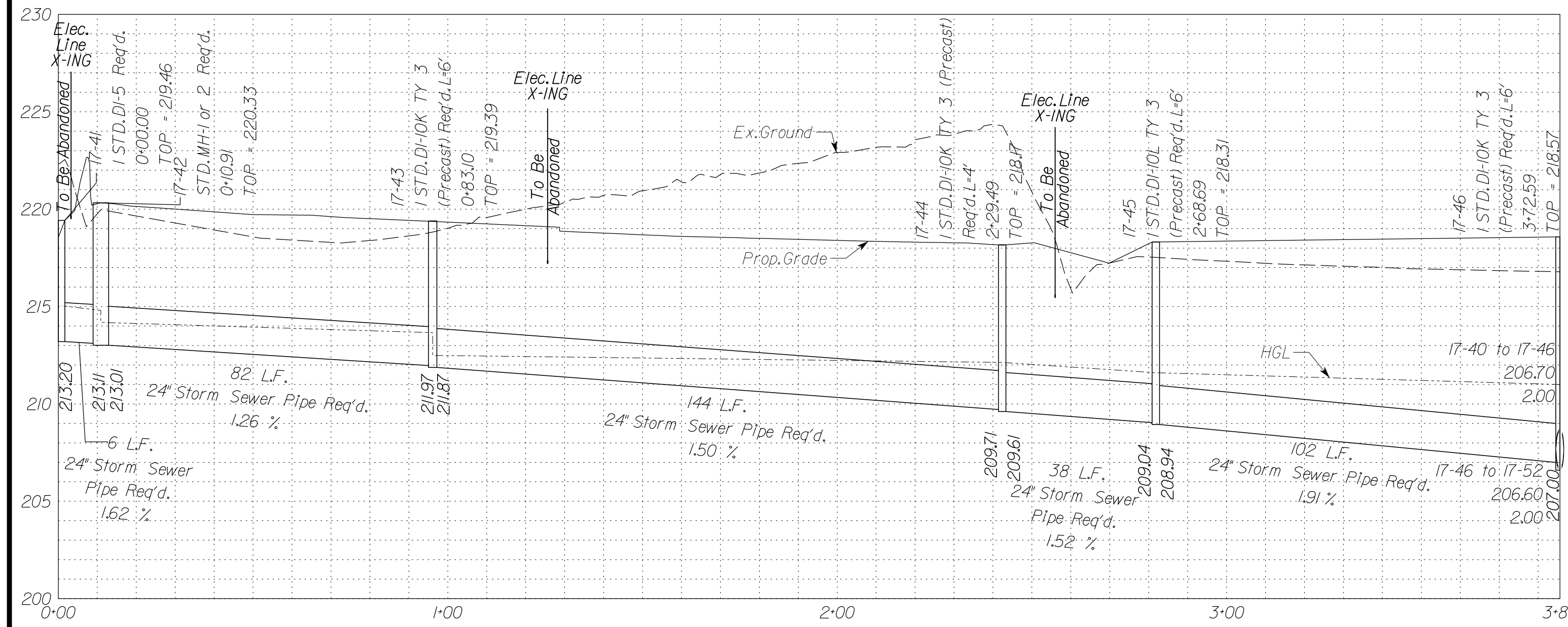


REVISED	STATE	ROUTE	STATE	VDOT PROJECT NO.	SHEET NO.
	VA	495		0495-029-419 C501 RW201	2L171E AREA 4

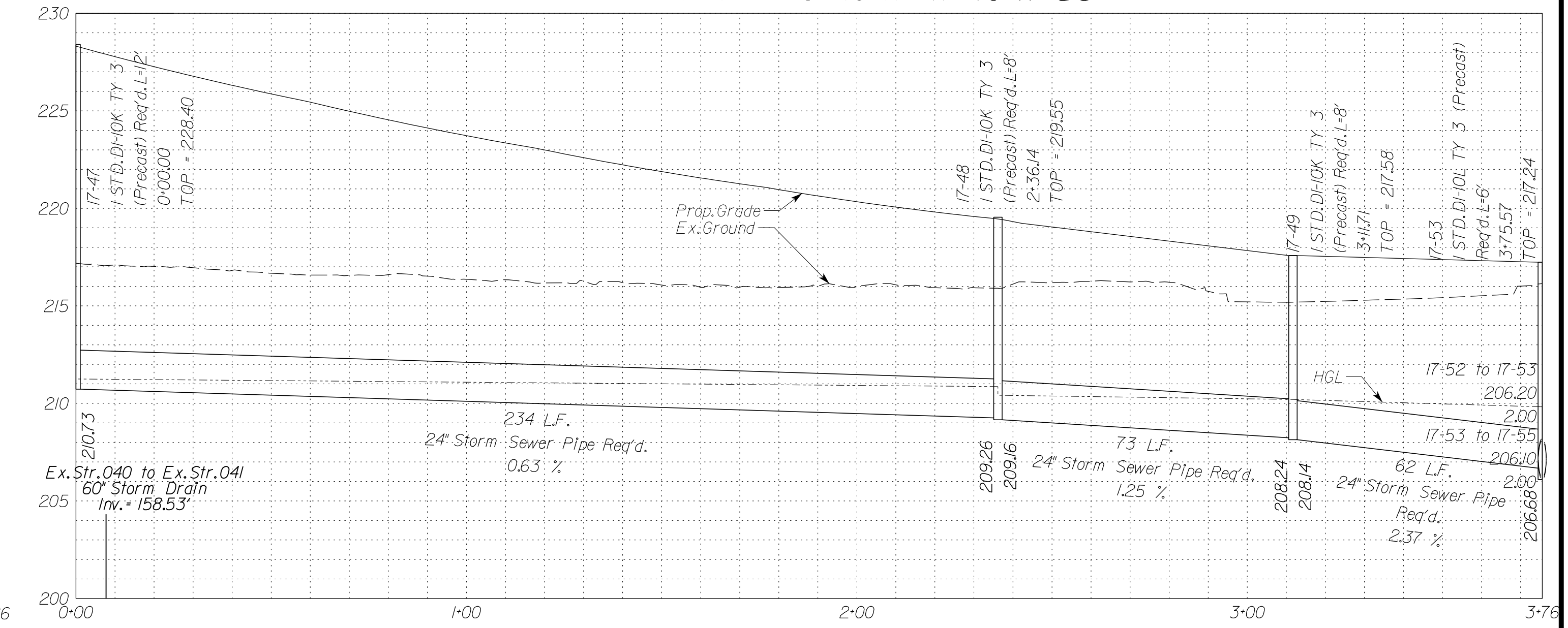
DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT

Rinker Design Assoc., P.C.
Manassas, Virginia
(HYDRAULICS ENGINEER)

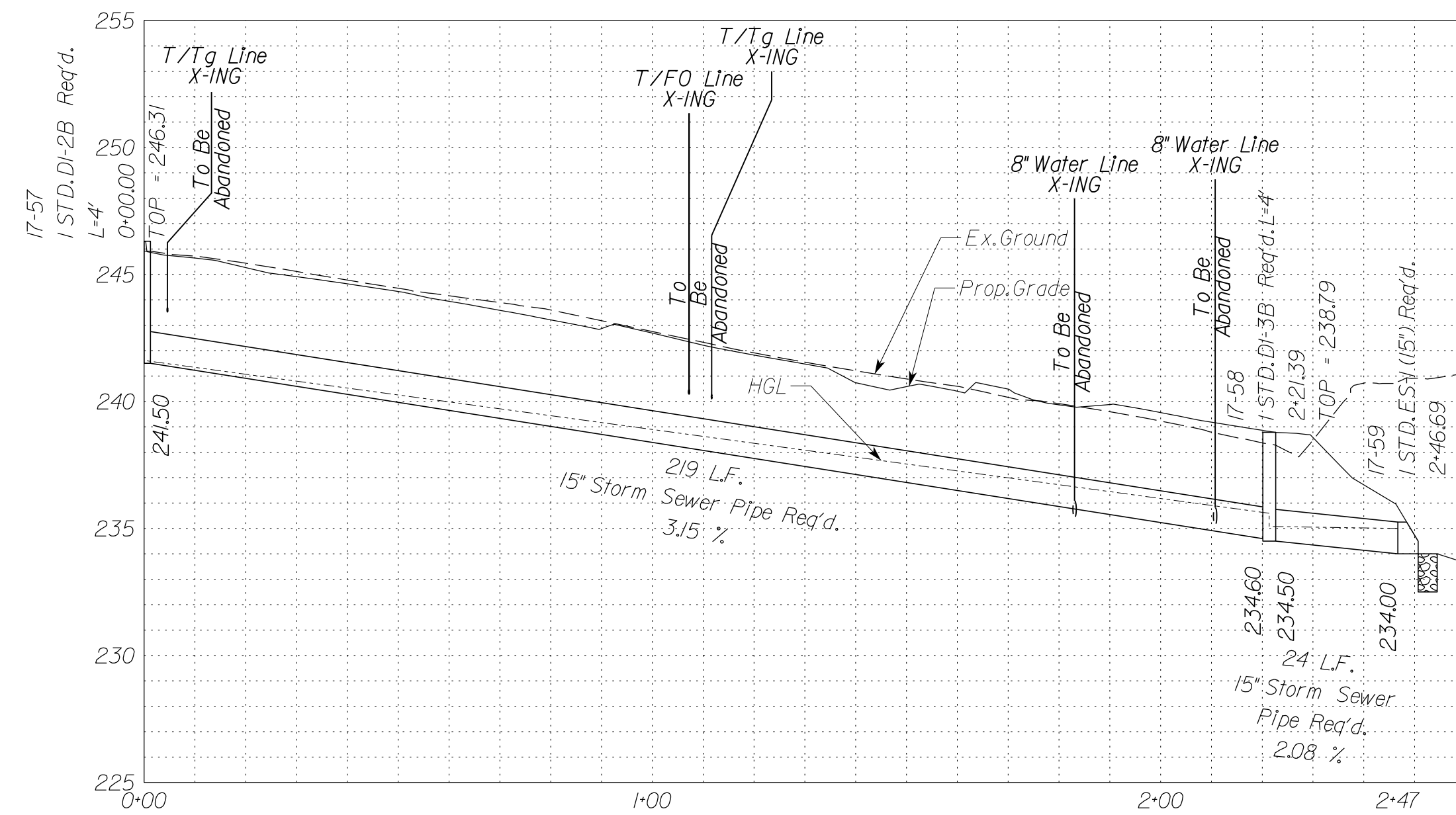
Stormsewer Profile 17-41 to 17-46



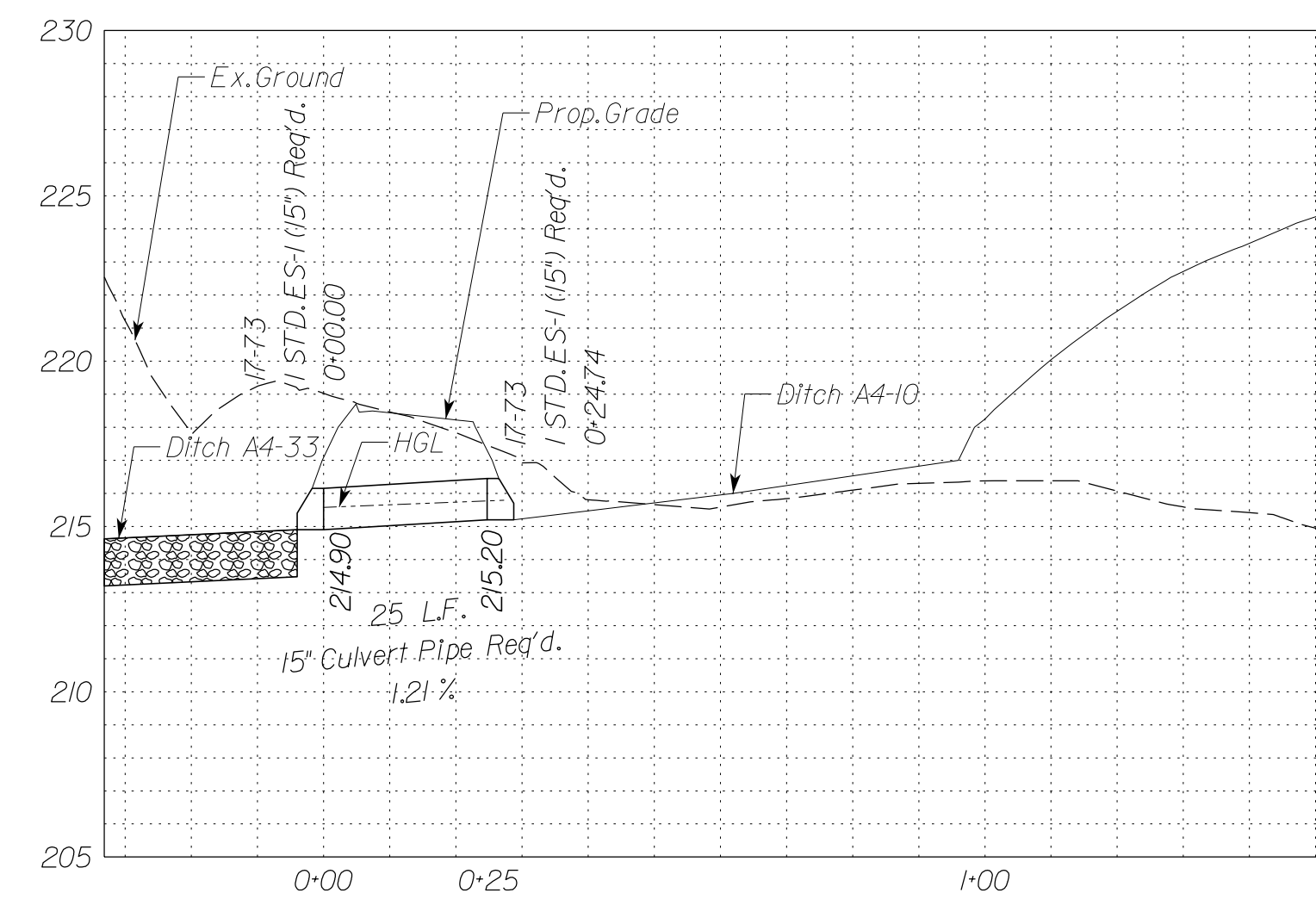
Stormsewer Profile 17-47 to 17-53



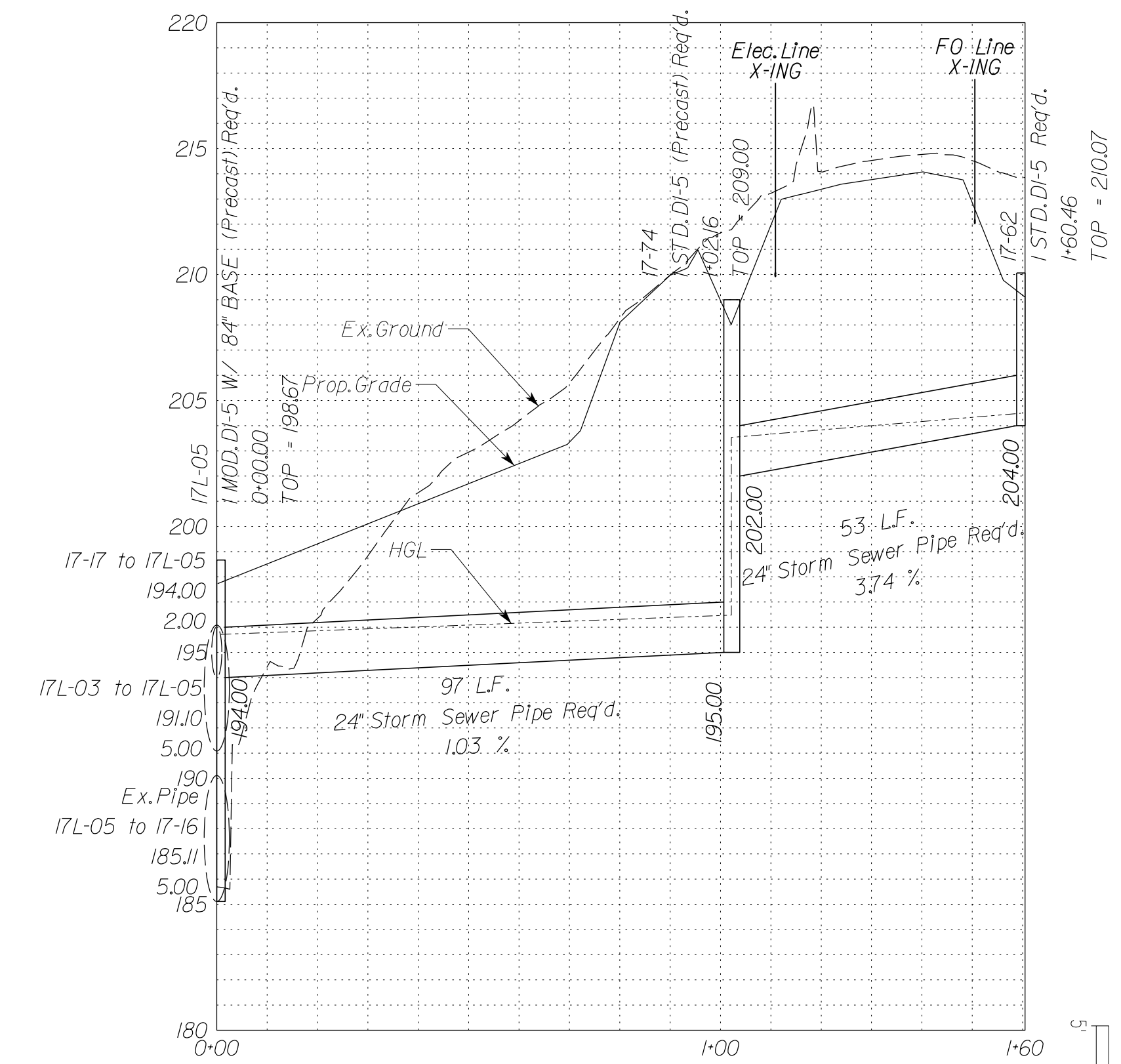
Stormsewer Profile 17-57 to 17-59



Culvert Profile 17-73

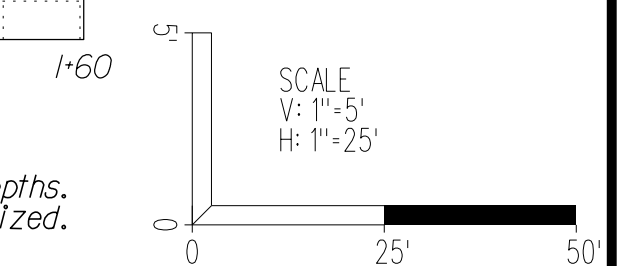


Stormsewer Profile 17L-05 to 17-62



Utility Crossings are shown at assumed depths. Elevations are to be updated once test hole data has been finalized.

In addition to the visual inspection performed by the Department during the initial installation of storm sewer pipes and pipe culverts, a post installation visual/video camera inspection shall be conducted by the Contractor on all storm sewer pipes and a selected number of pipe culverts. In accordance with the requirements of this specification and VTM 123.

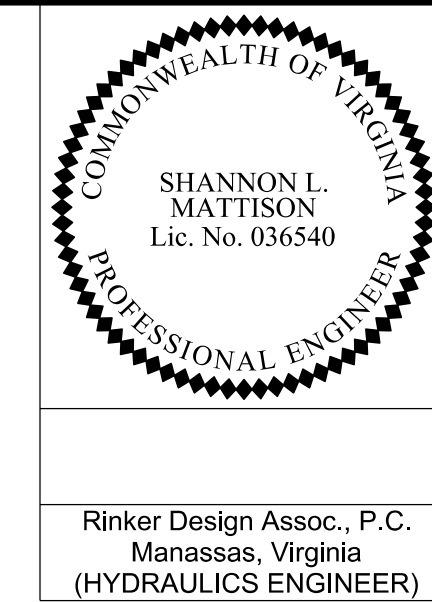


APPROVED FOR CONSTRUCTION

NOVA DISTRICT

PROJECT MANAGER VDOT - Rupal Shah, P.E. (703) 259-2362
 SURVEYED BY, DATE RDA - Nicholas Kougoullis, LS (703) 334-0837, 12/2021
 DESIGN BY RDA - Darrell Fischer, P.E. (703) 334-0823
 SUBSURFACE UTILITY BY, DATE Accurmark - Michael Taylor, LS (703) 635-3060, 12/2021

Storm Sewer Profiles

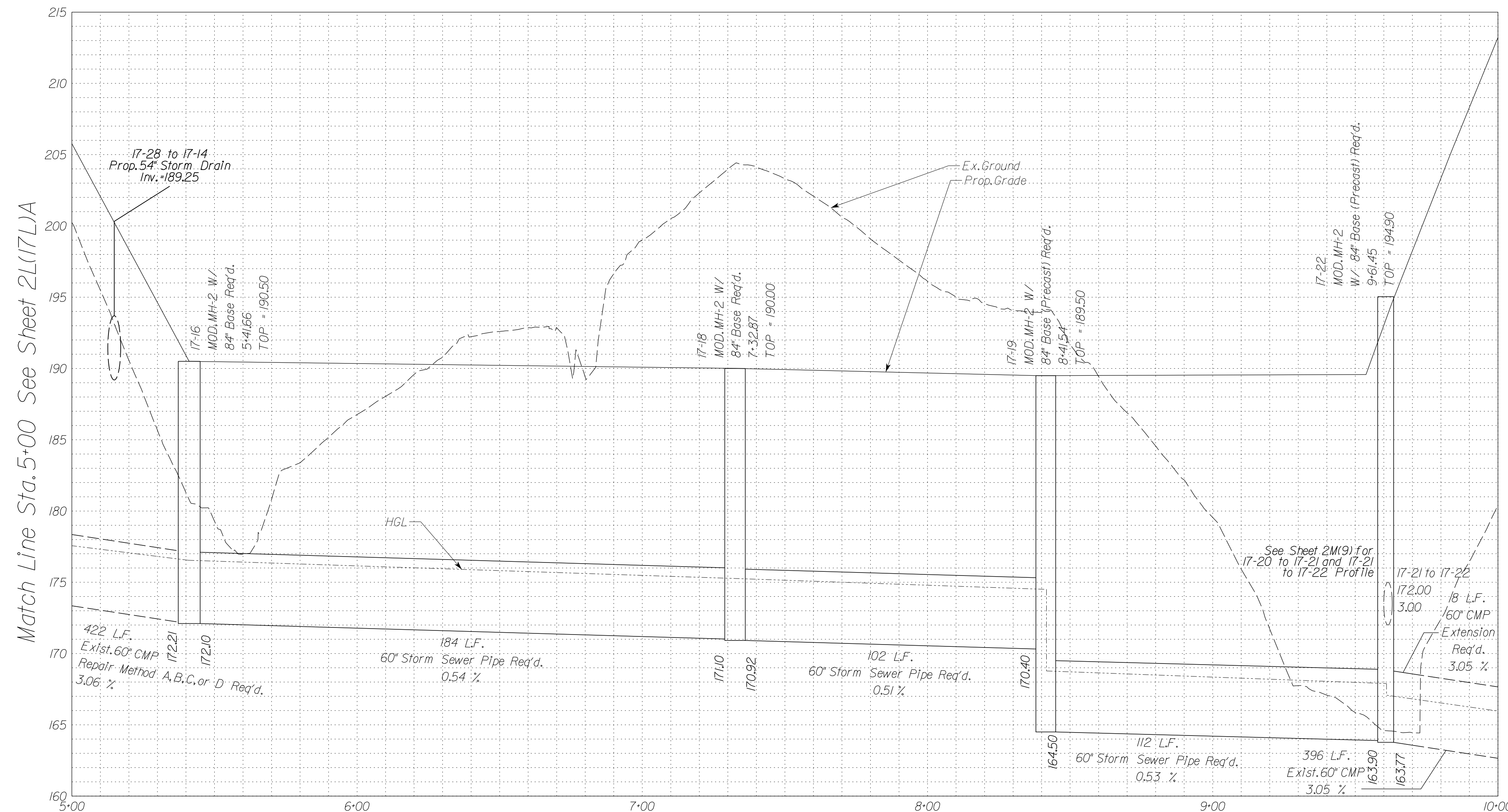


REVISED	STATE	ROUTE	STATE	VDOT PROJECT NO.	SHEET NO.
	VA.	495		0495-029-419 C501 RW201	2L(17)F AREA 4

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

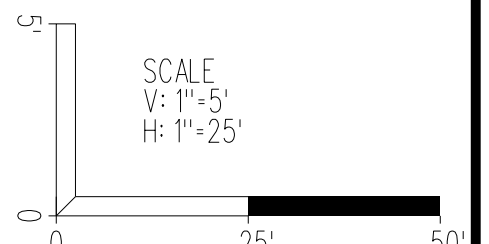
Rinker Design Assoc., P.C.
 Manassas, Virginia
 (HYDRAULICS ENGINEER)

Stormsewer Profile 17L-03 to EX041



In addition to the visual inspection performed by the Department during the initial installation of storm sewer pipes and pipe culverts, a post installation visual/video camera inspection shall be conducted by the Contractor on all storm sewer pipes and a selected number of pipe culverts in accordance with the requirements of this specification and VTM 12.3.

Utility Crossings are shown at assumed depths. Elevations are to be updated once test hole data has been finalized.



VDOT PROJECT NO. 0495-029-419	SHEET NO. 2L(17)F AREA 4
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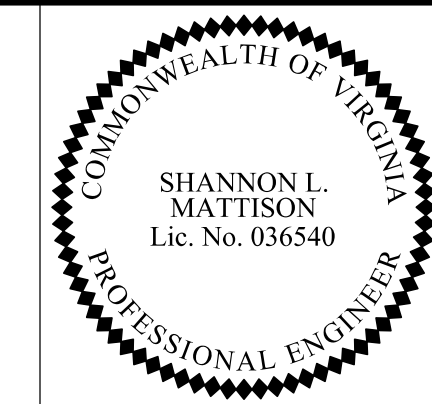
APPROVED FOR CONSTRUCTION

NOVA DISTRICT

10/26/2022

PROJECT MANAGER_VDOT - Rupal Shah, PE, (703) 259-2362
 SURVEYED BY, DATE_RDA - Nicholas Kougoullis, LS, (703) 334-0837, 12/2021
 DESIGN BY_RDA - Darrell Fischer, PE, (703) 334-0823
 SUBSURFACE UTILITY BY, DATE_Accurmark - Michael Taylor, LS, (703) 635-3060, 12/2021

Storm Sewer Profiles

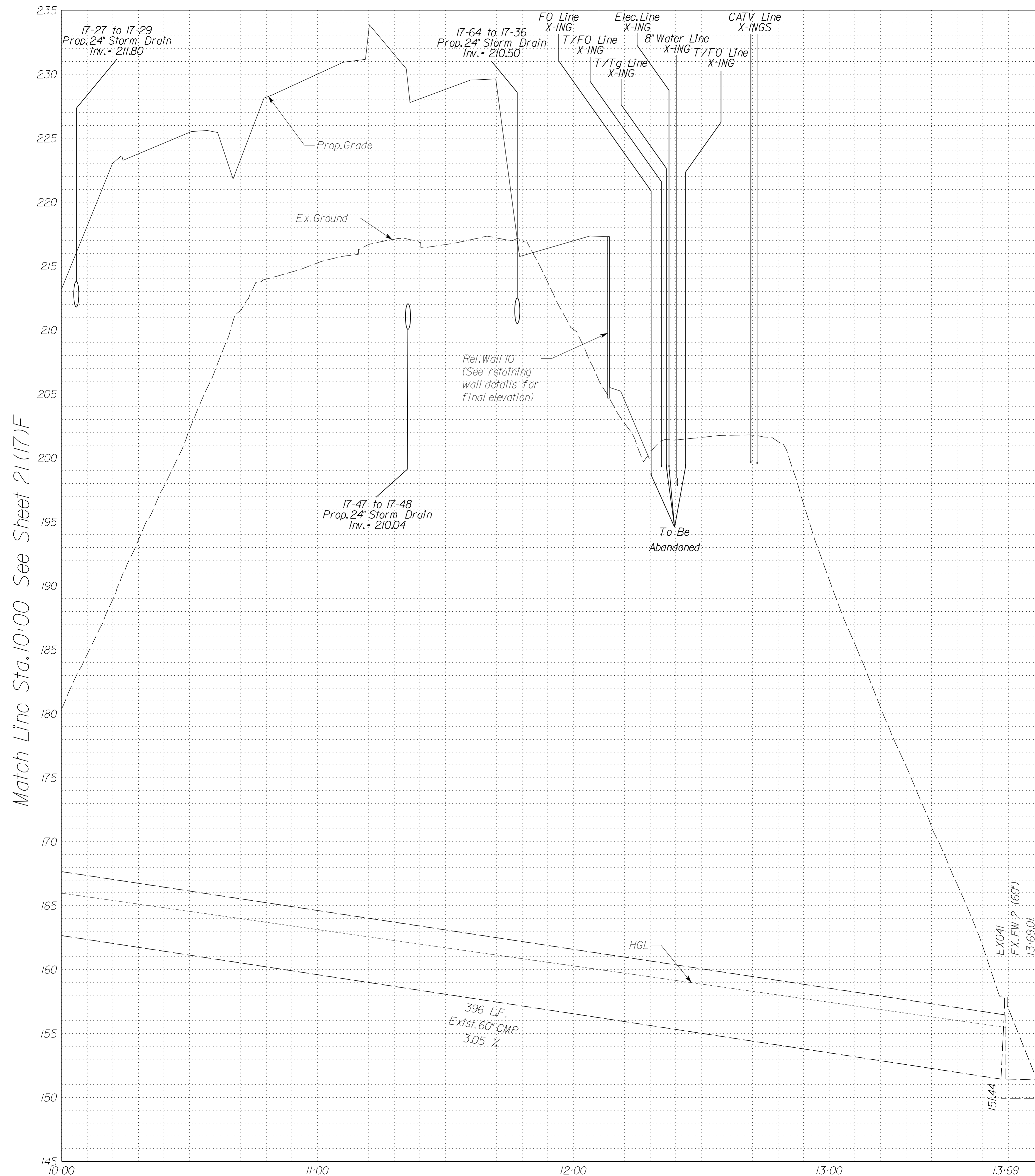


Rinker Design Assoc., P.C.
 Manassas, Virginia
 (HYDRAULICS ENGINEER)

REVISED	STATE	ROUTE	STATE	VDOT PROJECT NO.	SHEET NO.
	VA.	495		0495-029-419 C501 RW201	2L171G AREA 4

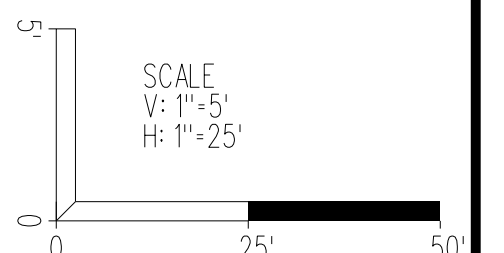
DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT

Stormsewer Profile 17L-03 to EX041



In addition to the visual inspection performed by the Department during the initial installation of storm sewer pipes and pipe culverts, a post installation visual/video camera inspection shall be conducted by the Contractor on all storm sewer pipes and a selected number of pipe culverts in accordance with the requirements of this specification and VTM 12.3.

Utility Crossings are shown at assumed depths. Elevations are to be updated once test hole data has been finalized.



VDOT PROJECT NO. 0495-029-419	SHEET NO. 2L171G AREA 4
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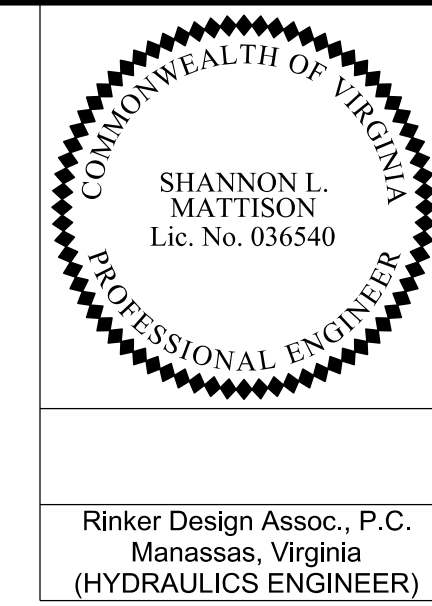
APPROVED FOR CONSTRUCTION

NOVA DISTRICT

10/26/2022

PROJECT MANAGER_VDOT - Rupal Shah, PE, (703) 259-2362
 SURVEYED BY, DATE_RDA - Nicholas Kougaull's LS, (703) 334-0837, 12/2021
 DESIGN BY_RDA - Darrell Fischer, PE, (703) 334-0823
 SUBSURFACE UTILITY BY, DATE_Accumark - Michael Taylor, LS, (703) 635-3060, 12/2021

Storm Sewer Profiles

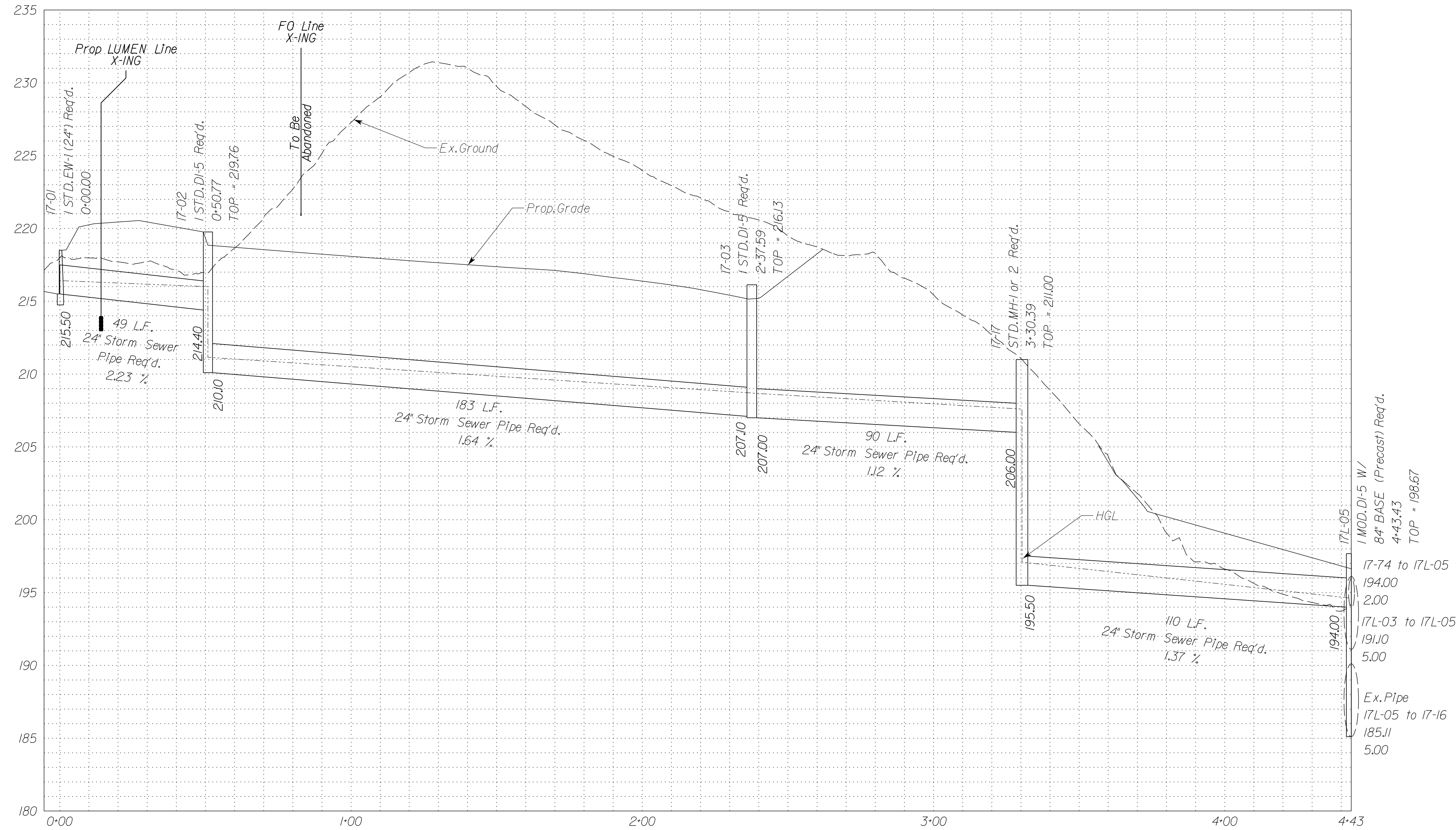


REVISED	STATE	ROUTE	STATE	VDOT PROJECT NO.	SHEET NO.
	VA.	495		0495-029-419 C501 RW201	2L171H AREA 4

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

Rinker Design Assoc., P.C.
 Manassas, Virginia
 (HYDRAULICS ENGINEER)

Stormsewer Profile 17-01 to 17L-05

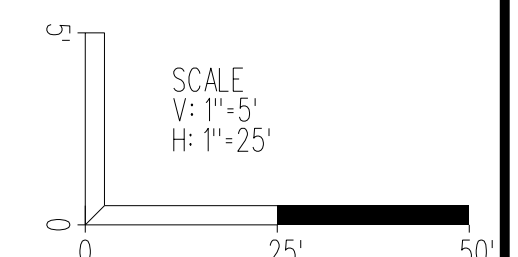


NOVA DISTRICT

10/26/2022

In addition to the visual inspection performed by the Department during the initial installation of storm sewer pipes and pipe culverts, a post installation visual/video camera inspection shall be conducted by the Contractor on all storm sewer pipes and a selected number of pipe culverts in accordance with the requirements of this specification and VTM 12.3.

Utility Crossings are shown at assumed depths. Elevations are to be updated once test hole data has been finalized.

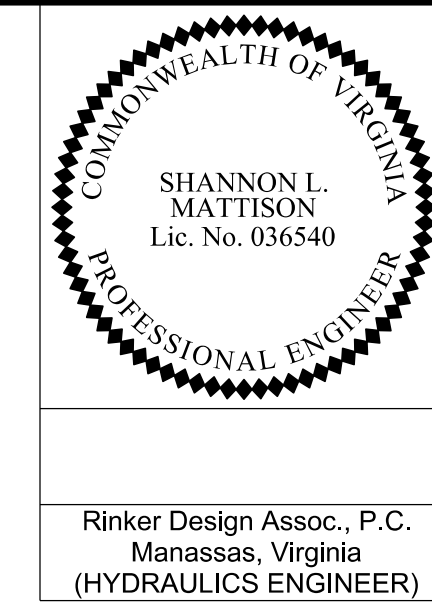


VDOT PROJECT NO. 0495-029-419	SHEET NO. 2L171H AREA 4
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APPROVED FOR CONSTRUCTION

PROJECT MANAGER VDOT - Rupal Shah, P.E. (703) 259-2362
 SURVEYED BY, DATE RDA - Nicholas Kougaull, LS (703) 334-0837, 12/2021
 DESIGN BY RDA - Darrell Fischer, P.E. (703) 334-0823
 Dewberry - Ron Jakomilich, P.E. (703) 849-0651
 SUBSURFACE UTILITY BY, DATE Accurmark - Michael Taylor, LS (703) 635-3060, 12/2021

Storm Sewer Profiles

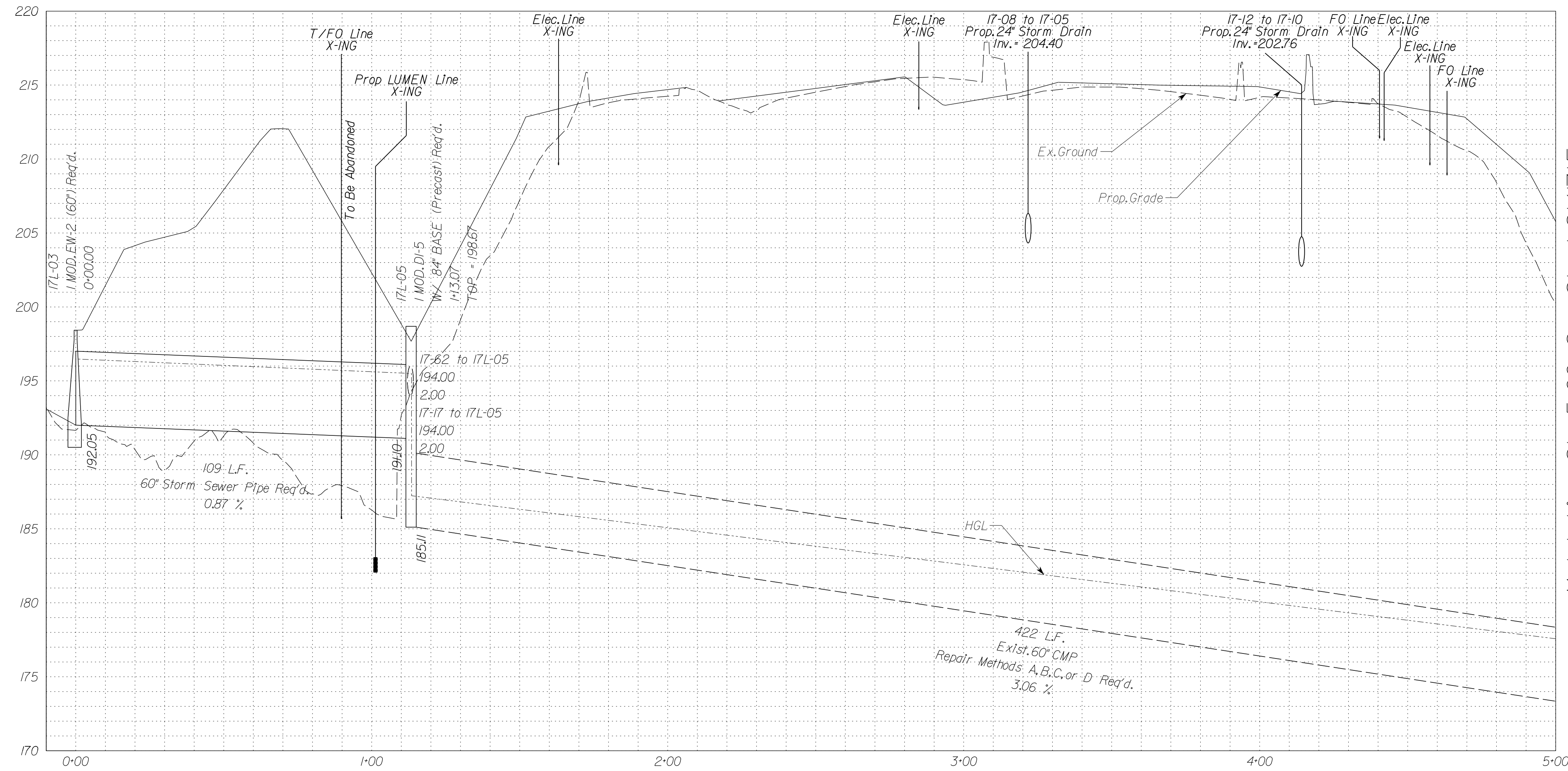


REVISED	STATE	ROUTE	STATE	VDOT PROJECT NO.	SHEET NO.
	VA	495		0495-029-419 C501 RW201	2L(17L)A AREA 4

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

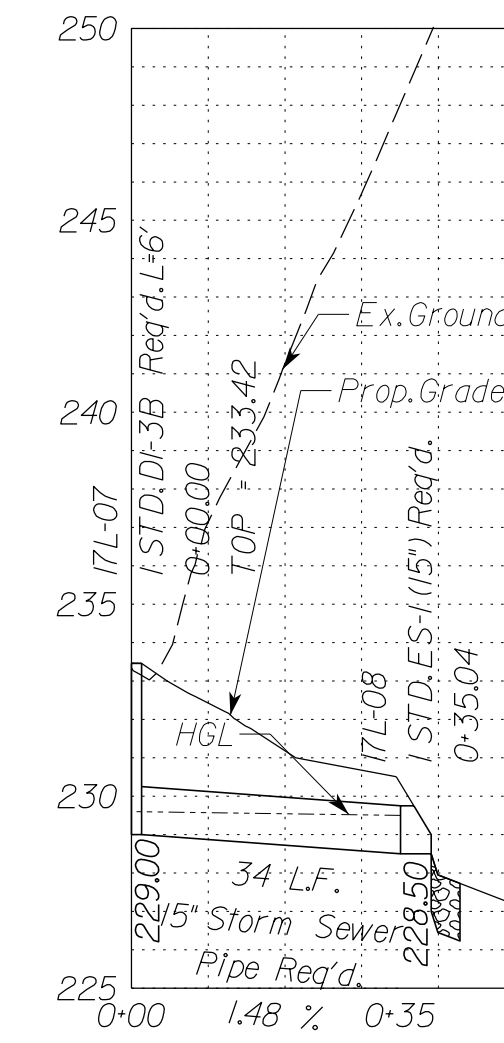
Rinker Design Assoc., P.C.
 Manassas, Virginia
 (HYDRAULICS ENGINEER)

Stormsewer Profile 17L-03 to EX041

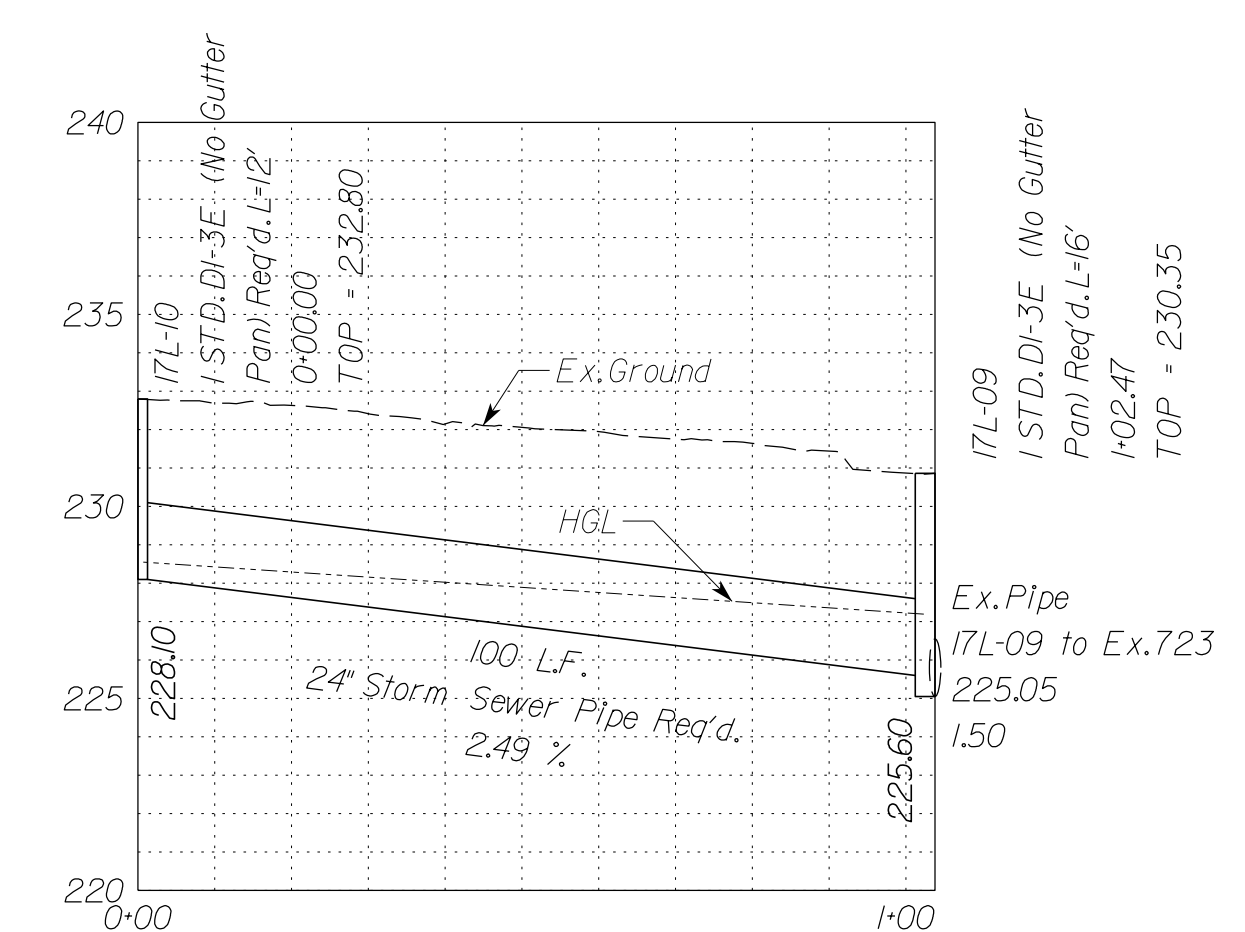


Match Line Sta. 5+00 See Sheet 2L(17)F

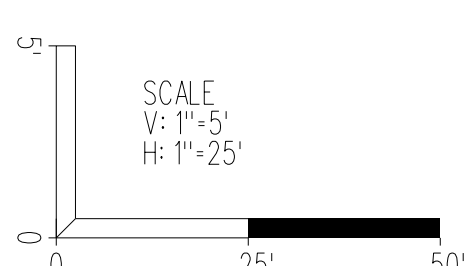
Stormsewer Profile 17L-07 to 17L-08



Stormsewer Profile 17L-10 to 17L-09



In addition to the visual inspection performed by the Department during the initial installation of storm sewer pipes and pipe culverts, a post installation visual/video camera inspection shall be conducted by the Contractor on all storm sewer pipes and a selected number of pipe culverts in accordance with the requirements of this specification and VTM 123.
 Utility Crossings are shown at assumed depths. Elevations are to be updated once test hole data has been finalized.



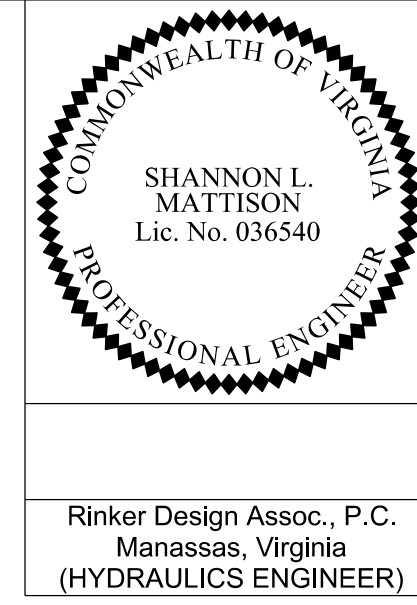
VDOT PROJECT NO. 0495-029-419	SHEET NO. 2L(17L)A AREA 4
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APPROVED FOR CONSTRUCTION

NOVA DISTRICT

PROJECT MANAGER VDOT - Rupal Shah, P.E. (703) 259-2362
SURVEYED BY, DATE RDA - Nicholas Kougaull's, L.S. (703) 334-0837, 12/2021
DESIGN BY RDA - Darrell Fischer, P.E. (703) 334-0823
Dewberry - Ron Jakomilich, P.E. (703) 849-0651
SUBSURFACE UTILITY BY, DATE Accurark - Michael Taylor, L.S. (703) 635-3060, 12/2021

Storm Sewer Profiles

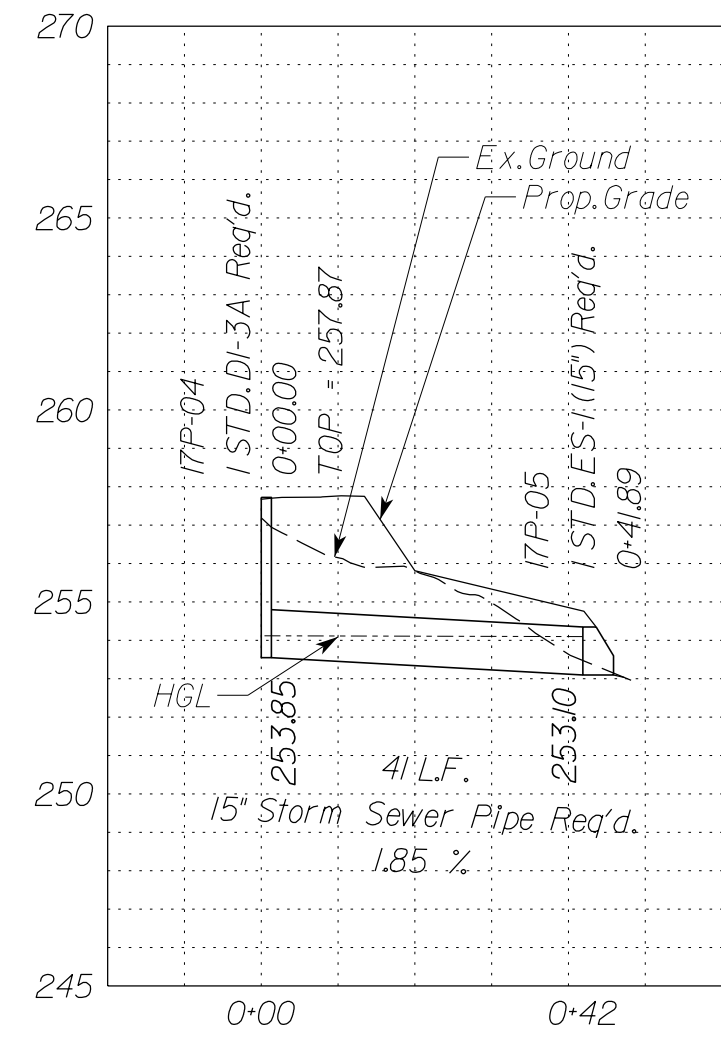


REVISED	STATE	ROUTE	STATE	VDOT PROJECT NO.	SHEET NO.
	VA.	495		0495-029-419 C501 RW201	2L(I7P)A AREA 4

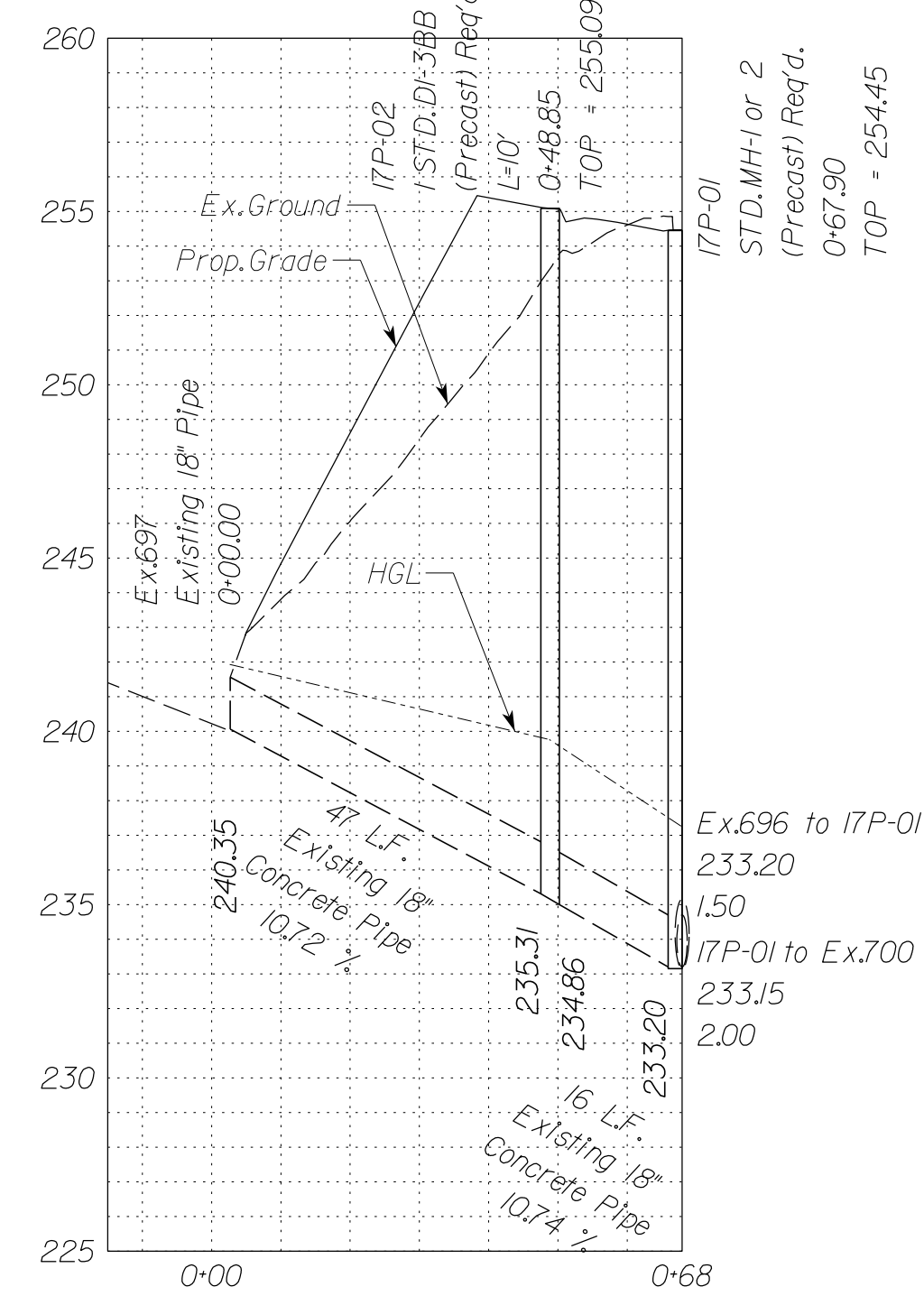
DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT

Rinker Design Assoc., P.C.
Manassas, Virginia
(HYDRAULICS ENGINEER)

Stormsewer Profile I7P-04 to I7P-05



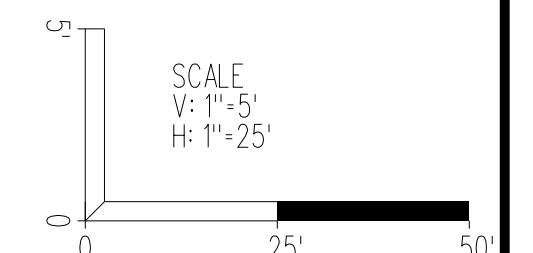
Stormsewer Profile Ex.697 to I7P-01



NOVA DISTRICT

10/26/2022

In addition to the visual inspection performed by the Department during the initial installation of storm sewer pipes and pipe culverts, a post installation visual/video camera inspection shall be conducted by the Contractor on all storm sewer pipes and a selected number of pipe culverts in accordance with the requirements of this specification and VTM 123. Utility Crossings are shown at assumed depths. Elevations are to be updated once test hole data has been finalized.

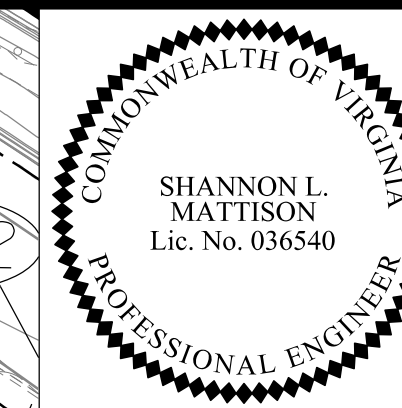


VDOT PROJECT NO. 0495-029-419 SHEET NO. 2L(I7P)A AREA 4

APPROVED FOR CONSTRUCTION

PROJECT MANAGER VDOT - Rupal Shah, PE, (703) 259-2362
SURVEYED BY, DATE RDA - Nicholas Kougaull, LS, (703) 334-0837, 12/2021
DESIGN BY RDA - Darrell Fischer, PE, (703) 334-0823
SUBSURFACE UTILITY BY, DATE Accumark - Michael Taylor, LS, (703) 635-3060, 12/2021

STORMWATER MANAGEMENT FACILITY PLAN



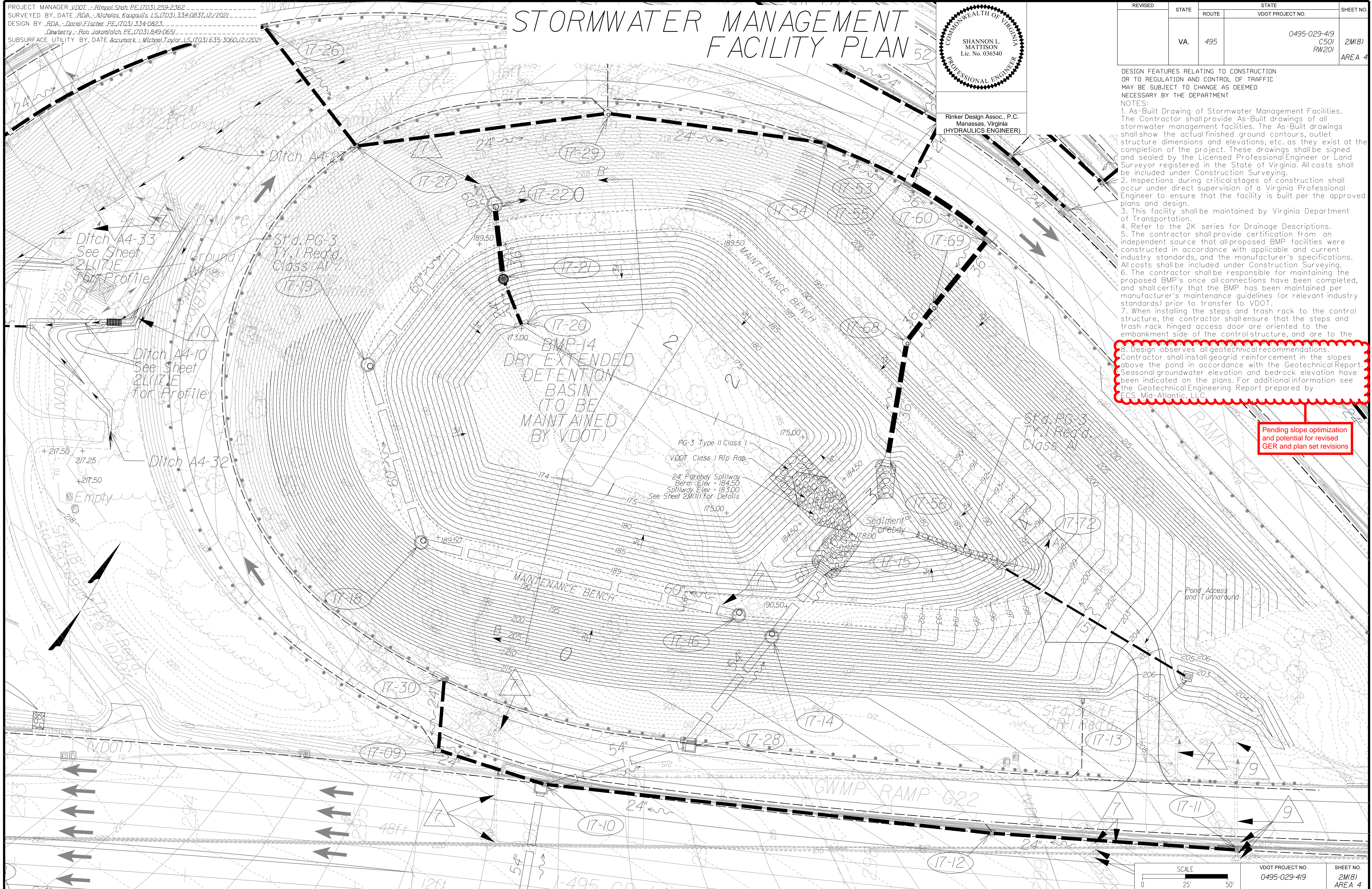
Rinker Design Assoc., P.C.
Manassas, Virginia
(HYDRAULICS ENGINEER)

REVISED	STATE	ROUTE	STATE	VDOT PROJECT NO.	SHEET NO.
	VA.	495		0495-029-419 C501 RW201	2M(B) AREA 4

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

- NOTES:
- As-Built Drawing of Stormwater Management Facilities. The Contractor shall provide As-Built drawings of all stormwater management facilities. The As-Built drawings shall show the actual finished ground contours, outlet structure dimensions and elevations, etc. as they exist at the completion of the project. These drawings shall be signed and sealed by the Licensed Professional Engineer or Land Surveyor registered in the State of Virginia. All costs shall be included under Construction Surveying.
 - Inspections during critical stages of construction shall occur under direct supervision of a Virginia Professional Engineer to ensure that the facility is built per the approved plans and design.
 - This facility shall be maintained by Virginia Department of Transportation.
 - Refer to the 2K series for Drainage Descriptions.
 - The contractor shall provide certification from an independent source that all proposed BMP facilities were constructed in accordance with applicable and current industry standards, and the manufacturer's specifications. All costs shall be included under Construction Surveying.
 - The contractor shall be responsible for maintaining the proposed BMP's once all connections have been completed, and shall certify that the BMP has been maintained per manufacturer's maintenance guidelines (or relevant industry standards) prior to transfer to VDOT.
 - When installing the steps and trash rack to the control structure, the contractor shall ensure that the steps and trash rack hinged access door are oriented to the embankment side of the control structure, and are to the
 - Design observes all geotechnical recommendations. Contractor shall install geogrid reinforcement in the slopes above the pond in accordance with the Geotechnical Report. Seasonal groundwater elevation and bedrock elevation have been indicated on the plans. For additional information see the Geotechnical Engineering Report prepared by ECS Mid-Atlantic, LLC.

Pending slope optimization and potential for revised GER and plan set revisions



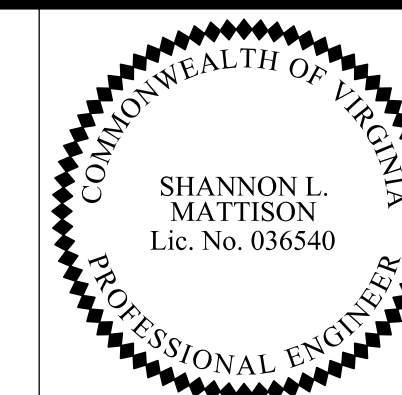
NOVA DISTRICT

10/28/2022

APPROVED FOR CONSTRUCTION

PROJECT MANAGER VDOT - Rupal Shah, PE, (703) 259-2362
 SURVEYED BY, DATE RDA - Nicholas Kougoullis, LS, (703) 334-0837, 12/2021
 DESIGN BY RDA - Darrell Fischer, PE, (703) 334-0823
 SUBSURFACE UTILITY BY, DATE Accurmark - Michael Taylor, LS, (703) 635-3060, 12/2021

STORMWATER MANAGEMENT FACILITY DETAIL



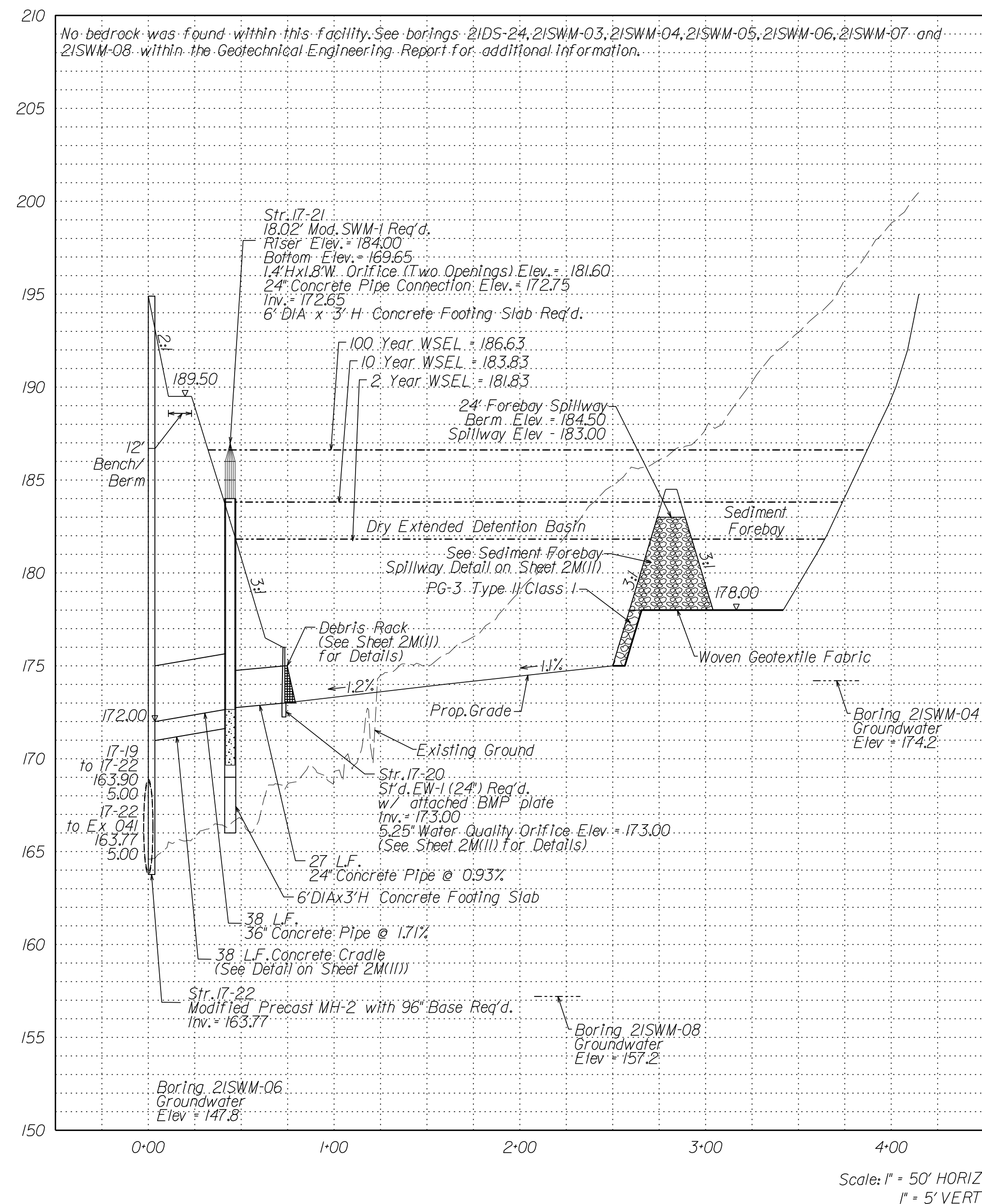
Rinker Design Assoc., P.C.
 Manassas, Virginia
 (HYDRAULICS ENGINEER)

REVISED	STATE		VDOT PROJECT NO.	SHEET NO.
	STATE	ROUTE		
	VA.	495	0495-029-419 C501 RW201	2M(9) AREA 4

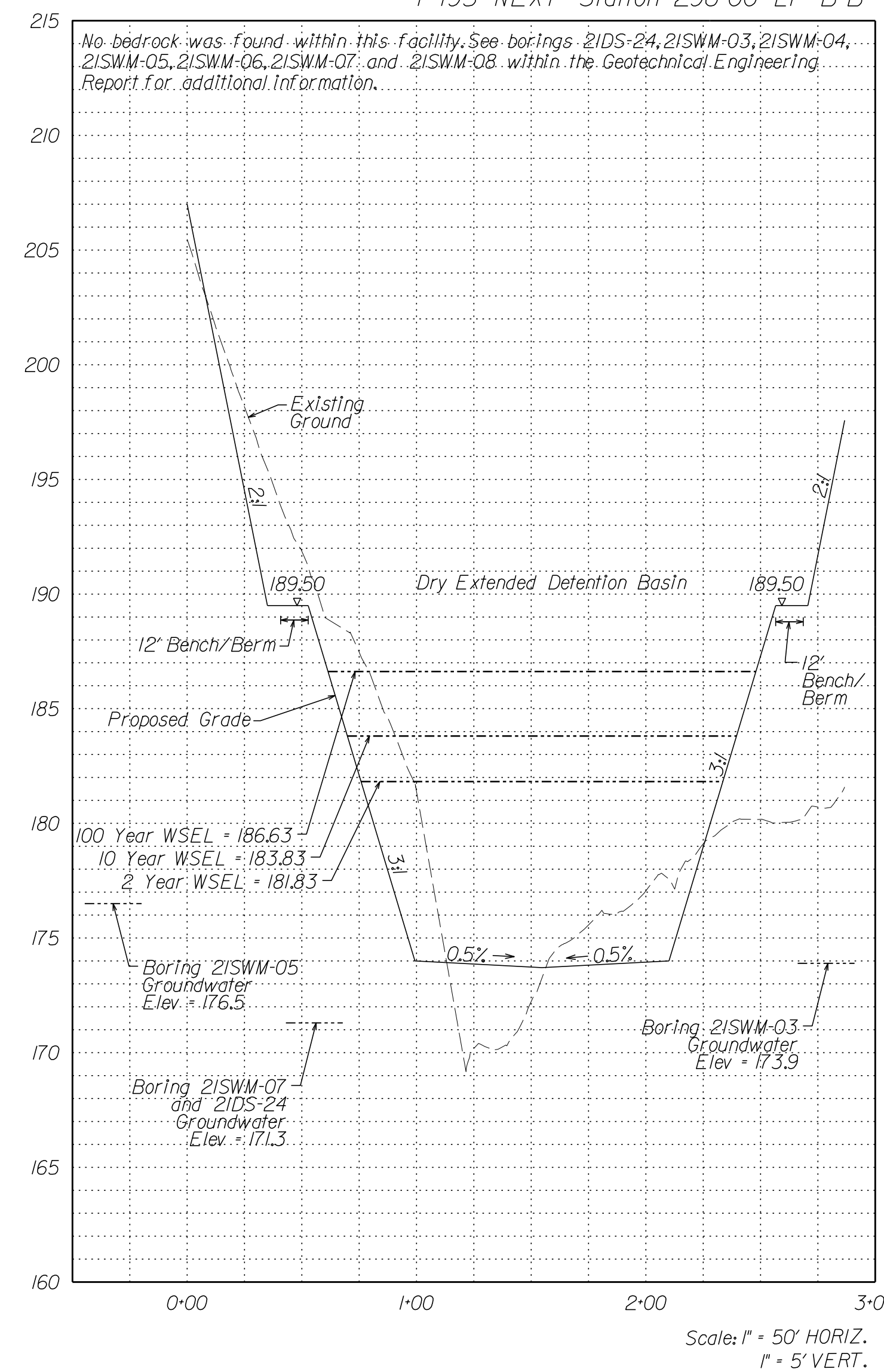
DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT

BMP-14 PROFILE VIEW
 DRY EXTENDED DETENTION FACILITY

Dry Extended Detention Pond BMP-14
 I-495 NEXT Station 296+00 LT A-A'



Dry Extended Detention Pond BMP-14
 I-495 NEXT Station 296+00 LT B-B'



- NOTES:
- As-Built Drawing of Stormwater Management Facilities. The Contractor shall provide As-Built drawings of all stormwater management facilities. The As-Built drawings shall show the actual finished ground contours, outlet structure dimensions and elevations, etc. as they exist at the completion of the project. These drawings shall be signed and sealed by the Licensed Professional Engineer or Land Surveyor registered in the State of Virginia. All costs shall be included under Construction Surveying.
 - Inspections during critical stages of construction shall occur under direct supervision of a Virginia Professional Engineer to ensure that the facility is built per the approved plans and design.
 - This facility shall be maintained by Virginia Department of Transportation.
 - Refer to the 2K series for Drainage Descriptions.
 - The contractor shall provide certification from an independent source that all proposed BMP facilities were constructed in accordance with applicable and current industry standards, and the manufacturer's specifications. All costs shall be included under Construction Surveying.
 - The contractor shall be responsible for maintaining the proposed BMP's once all connections have been completed, and shall certify that the BMP has been maintained per manufacturer's maintenance guidelines (or relevant industry standards) prior to transfer to VDOT.
 - When installing the steps and trash rack to the control structure, the contractor shall ensure that the steps and trash rack hinged access door are oriented to the embankment side of the control structure, and are to the right of the structure, aligned with rock.
 - Design observes all geotechnical recommendations. Contractor shall install geogrid reinforcement in the slopes above the pond in accordance with the Geotechnical Report. Seasonal groundwater elevation and bedrock elevation have been indicated on the plans. For additional information see the Geotechnical Engineering Report prepared by ECS Mid-Atlantic, LLC.

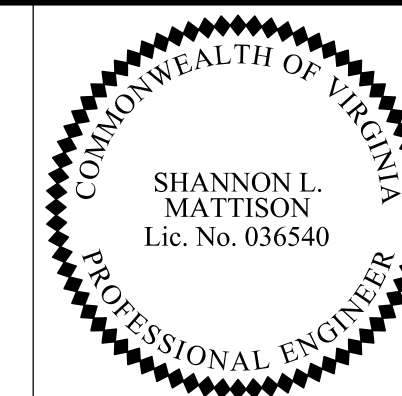
Pending slope optimization and potential for revised GER and plan set revisions

NOVA DISTRICT

APPROVED FOR CONSTRUCTION

PROJECT MANAGER VDOT - Rupal Shah, P.E. (703) 259-2362
 SURVEYED BY, DATE RDA - Nicholas Kougaull, LS (703) 334-0837, 12/2021
 DESIGN BY RDA - Darrell Fischer, P.E. (703) 334-0823
 SUBSURFACE UTILITY BY, DATE Accumark - Michael Taylor, LS (703) 635-3060, 12/2021

STORMWATER MANAGEMENT FACILITY DETAIL



Rinker Design Assoc., P.C.
 Manassas, Virginia
 (HYDRAULICS ENGINEER)

REVISION	STATE	ROUTE	STATE	VDOT PROJECT NO.	SHEET NO.
	VA.	495		0495-029-419 C501 RW201	2M(10) AREA 4

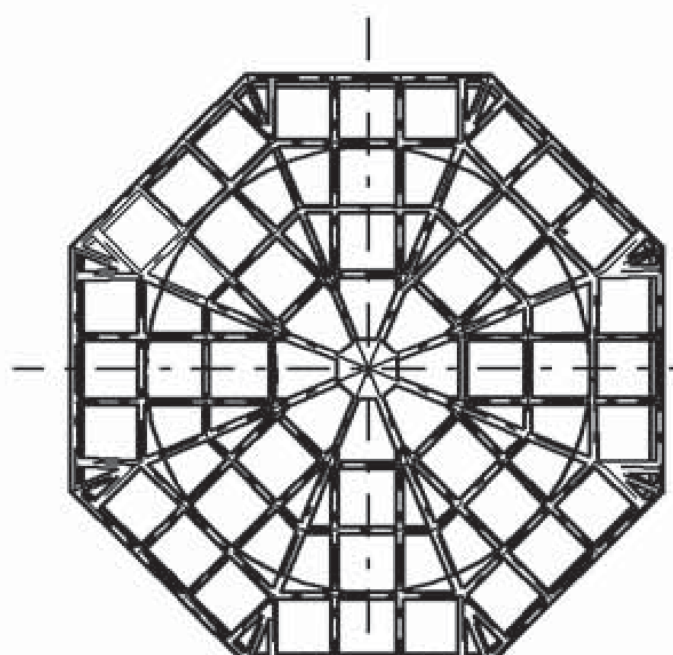
DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT

BMP-14 DETAILS
 DRY EXTENDED DETENTION FACILITY

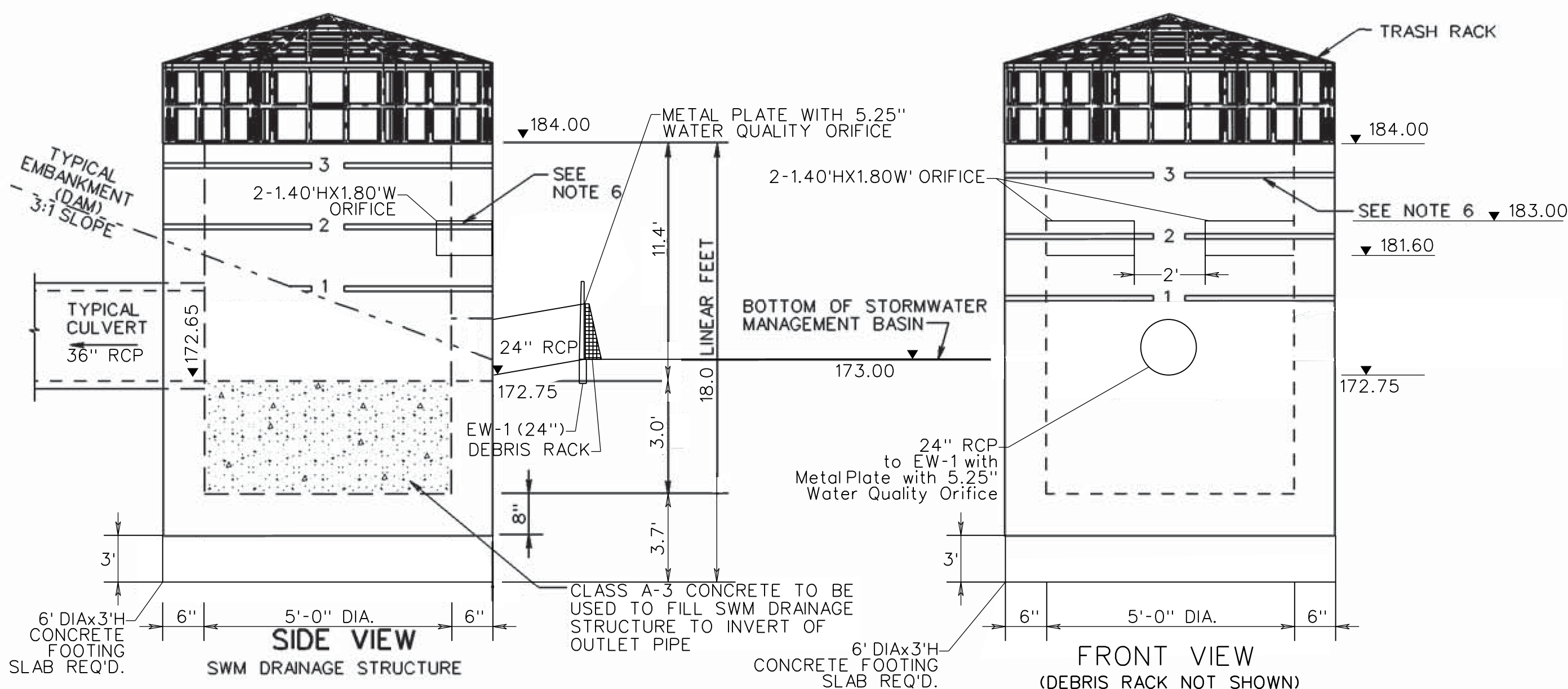
2016 ROAD & BRIDGE STANDARDS

NOTES:

- COST OF TRASH RACK AND DEBRIS RACK ARE TO BE INCLUDED IN THE PRICE BID FOR THE STORMWATER MANAGEMENT DRAINAGE STRUCTURE.
- STRUCTURE MAY BE PRECAST OR CAST IN PLACE. SEE SHEET 1 OF 3 FOR DETAILS ON CAST IN PLACE STRUCTURE.
- WEEP HOLES SHALL NOT BE PROVIDED. ANY LIFT HOLES SHALL BE PLUGGED.
- STEPS ARE TO BE PROVIDED WHEN HEIGHT OF STRUCTURE IS 4'-0" OR GREATER ABOVE INVERT OF OUTLET PIPE. FOR STEP DETAILS SEE STANDARD ST-1.
- SEE STANDARD SWM-DR FOR DETAILS ON PLATE, DEBRIS RACK AND TRASH RACK.
- MARK HEIGHT OF STRUCTURE, IN BLACK, WITH 4" HIGH NUMERALS AND 1" WIDE HORIZONTAL STRIPES AT 1' INTERVALS FROM INVERT OF WATER QUALITY ORIFICE (ALL VISIBLE SIDES).
- THE PERMANENT STORMWATER MANAGEMENT DRAINAGE STRUCTURE, STANDARD SWM-1 MAY BE MODIFIED WHERE THE STORMWATER MANAGEMENT BASIN IS TO BE USED AS A TEMPORARY SEDIMENT BASIN DURING PROJECT CONSTRUCTION. SEE STANDARD SWM-DR, SHEET 1 OF 5 FOR TEMPORARY MODIFICATION DETAILS.
- THE SIZE OF THE WATER QUALITY ORIFICE SHALL BE SPECIFIED ON THE PLANS. ADDITIONAL OPENINGS IN THE STORMWATER MANAGEMENT DRAINAGE STRUCTURE TO BE PROVIDED WHEN SPECIFIED ON THE PLANS.



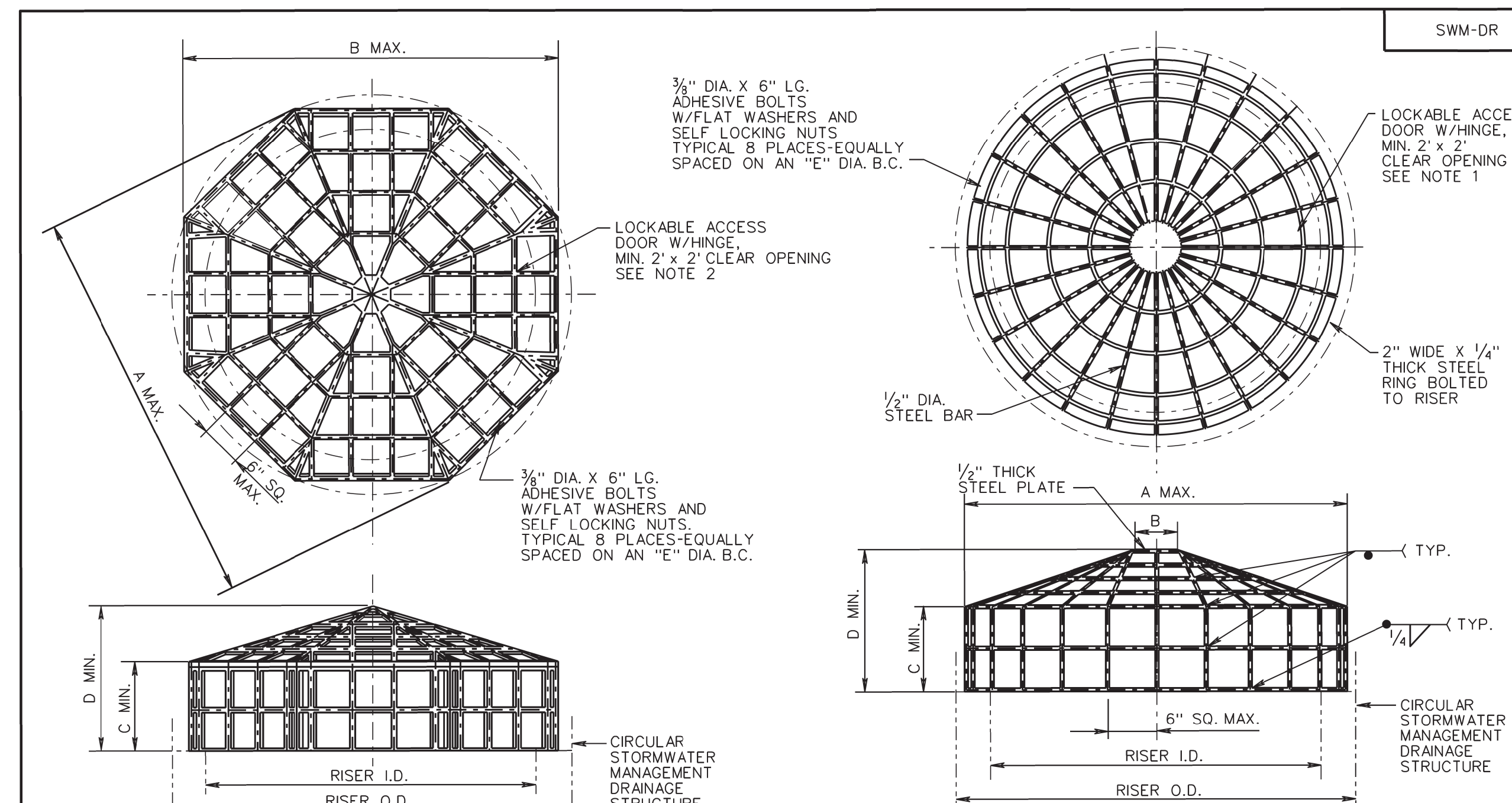
PLAN VIEW



SIDE VIEW

FRONT VIEW
 (DEBRIS RACK NOT SHOWN)

2016 ROAD & BRIDGE STANDARDS



RISER I.D.	RISER O.D.	DIMENSION				
		A	B	C	D	E
24	30	31	28 3/8	7	11	27
36	44	45	41 1/2	13	19	40
48	58	59	54 1/2	13	21	53
60	72	73	67 1/2	17	28	66
72	86	87	80 3/4	23	35	79
84	100	101	93 3/4	25	39	92
96	114	115	106 3/4	22	38	105

RISER I.D.	RISER O.D.	DIMENSION					SEGMENT	APPROX. WT. (LBS.)
		A	B	C	D	E		
24	30	30	6	7	10	27	15	46
36	44	42	6	13	18	40	22	82
48	58	55	9	13	20	53	29	120
60	72	68	9	17	26	66	36	169
72	86	81	9	23	34	79	42	227
84	100	94	12	25	37	92	49	290
96	114	107	12	22	36	105	56	341

NOTES:

- ALL METAL TRASH RACKS, 36" IN DIAMETER AND LARGER OR WITH A TOTAL WEIGHT OF 75 LBS OR GREATER SHALL HAVE A HINGED, LOCKABLE ACCESS DOOR WITH A MINIMUM 2' X 2' CLEAR OPENING.
- ALL HIGH DENSITY POLYETHYLENE TRASH RACKS 48" IN DIAMETER AND LARGER SHALL HAVE A HINGED, LOCKABLE ACCESS DOOR WITH A MINIMUM 2' X 2' CLEAR OPENING.
- ANTI-VORTEX PLATE IS TO BE USED WHEN SPECIFIED ON THE PLANS. COST OF FURNISHING AND PLACING THE ANTI-VORTEX PLATE IS TO BE INCLUDED IN THE BID PRICE FOR THE STRUCTURE.

SPECIFICATION REFERENCE	302	STORMWATER MANAGEMENT DETAILS TRASH RACK FOR SWM DRAINAGE STRUCTURES	VDOT ROAD AND BRIDGE STANDARDS
		VIRGINIA DEPARTMENT OF TRANSPORTATION	REVISION DATE 07/16 SHEET 4 OF 5 114-07

2016 ROAD & BRIDGE STANDARDS

- As-Built Drawing of Stormwater Management Facilities. The Contractor shall provide As-Built drawings of all stormwater management facilities. The As-Built drawings shall show the actual finished ground contours, outlet structure dimensions and elevations, etc. as they exist at the completion of the project. These drawings shall be signed and sealed by the Licensed Professional Engineer or Land Surveyor registered in the State of Virginia. All costs shall be included under Construction Surveying.
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- This facility shall be maintained by Virginia Department of Transportation.
- Refer to the 2K series for Drainage Descriptions.
- The contractor shall provide certification from an independent source that all proposed BMP facilities were constructed in accordance with applicable and current industry standards, and the manufacturer's specifications. All costs shall be included under Construction Surveying.

- The contractor shall be responsible for maintaining the proposed BMP's once all connections have been completed, and shall certify that the BMP has been maintained per manufacturer's maintenance guidelines (or relevant industry standards) prior to transfer to VDOT.
- When installing the steps and trash rack to the control structure, the contractor shall ensure that the steps and trash rack hinged access door are oriented to the embankment side of the control structure, and are to the extent possible, in direct alignment with each other.
- Design observes all geotechnical recommendations. Contractor shall install geogrid reinforcement in the slopes above the pond in accordance with the Geotechnical Report. Seasonal groundwater elevation and bedrock elevation have been indicated on the plans. For additional information see the Geotechnical Engineering Report prepared by ECS Mid-Atlantic, LLC.

Pending slope optimization and potential for revised GER and plan set revisions

VDOT PROJECT NO.	0495-029-419	SHEET NO.	2M(10) AREA 4
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NOT TO SCALE

APPROVED FOR CONSTRUCTION

NOVA DISTRICT

10/28/2022

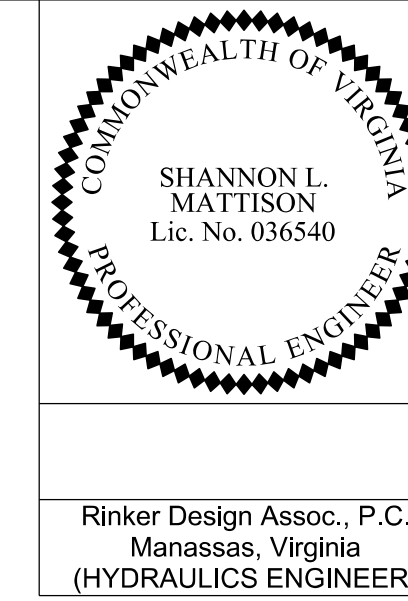
2016 ROAD & BRIDGE STANDARDS

VDOT ROAD AND BRIDGE STANDARDS	PRECAST STORMWATER MANAGEMENT DRAINAGE STRUCTURE (17-21)	SPECIFICATION REFERENCE
SHEET 2 OF 3 114.02	REVISION DATE 08/10	105 302

VIRGINIA DEPARTMENT OF TRANSPORTATION

PROJECT MANAGER VDOT - *Ritapal Shah, PE, (703) 259-2362*
 SURVEYED BY, DATE RDA - *Nicholas Kaugall, LS, (703) 334-0837, 12/2021*
 DESIGN BY RDA - *Darrell Fischer, PE, (703) 334-0823*
Dewberry - Ron Jakomlitch, PE, (703) 849-0651
 SUBSURFACE UTILITY BY, DATE Accurmark - *Michael Taylor, LS, (703) 635-3060, 12/2021*

STORMWATER MANAGEMENT FACILITY DETAIL

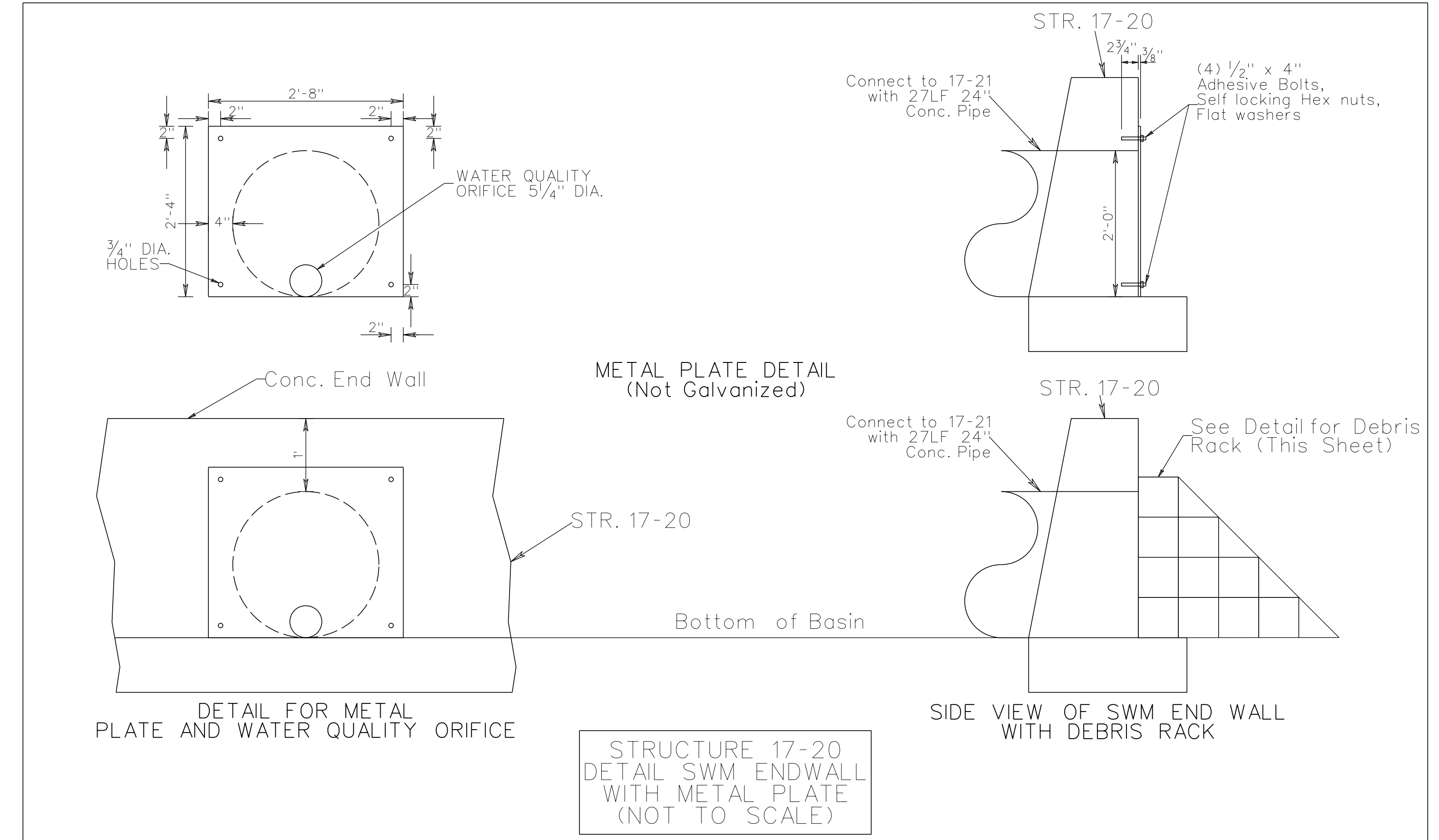
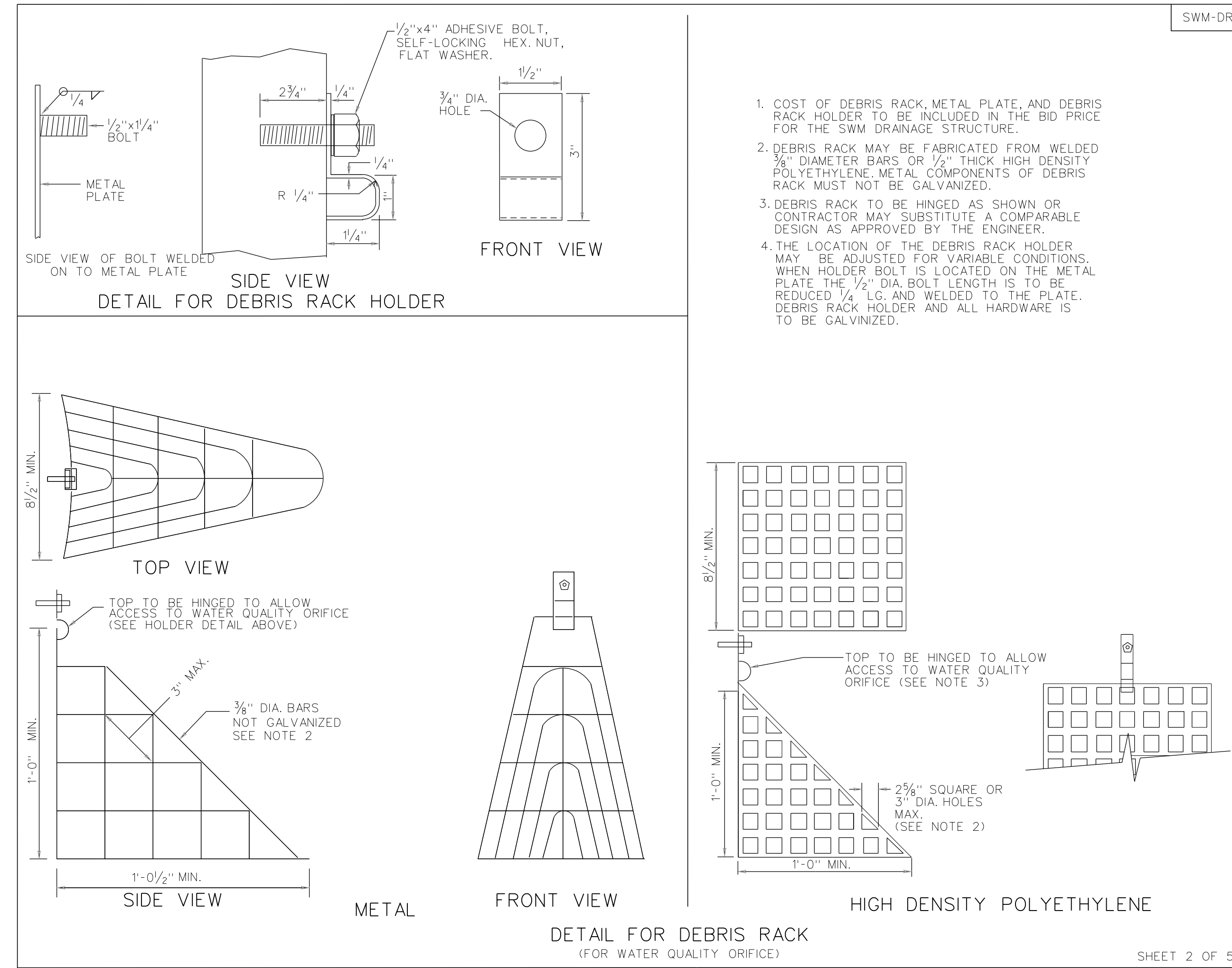


Rinker Design Assoc., P.C.
 Manassas, Virginia
 (HYDRAULICS ENGINEER)

REVISED	STATE	ROUTE	STATE PROJECT NO.	SHEET NO.
	VA.	495	0495-029-419 C501 RW201	2M(11) AREA 4

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

BMP-14 DETAILS DRY EXTENDED DETENTION FACILITY



SPECIFICATION REFERENCE	STORMWATER MANAGEMENT (SWM) DETAILS	REV. 3/03
302	DEBRIS RACK, METAL PLATE, WATER QUALITY ORIFICE, CONCRETE CRADLE (FOR SWM DRAINAGE STRUCTURES, SWM RISER PIPES AND SWM DAMS) VIRGINIA DEPARTMENT OF TRANSPORTATION	116.05

CONCRETE CRADLE

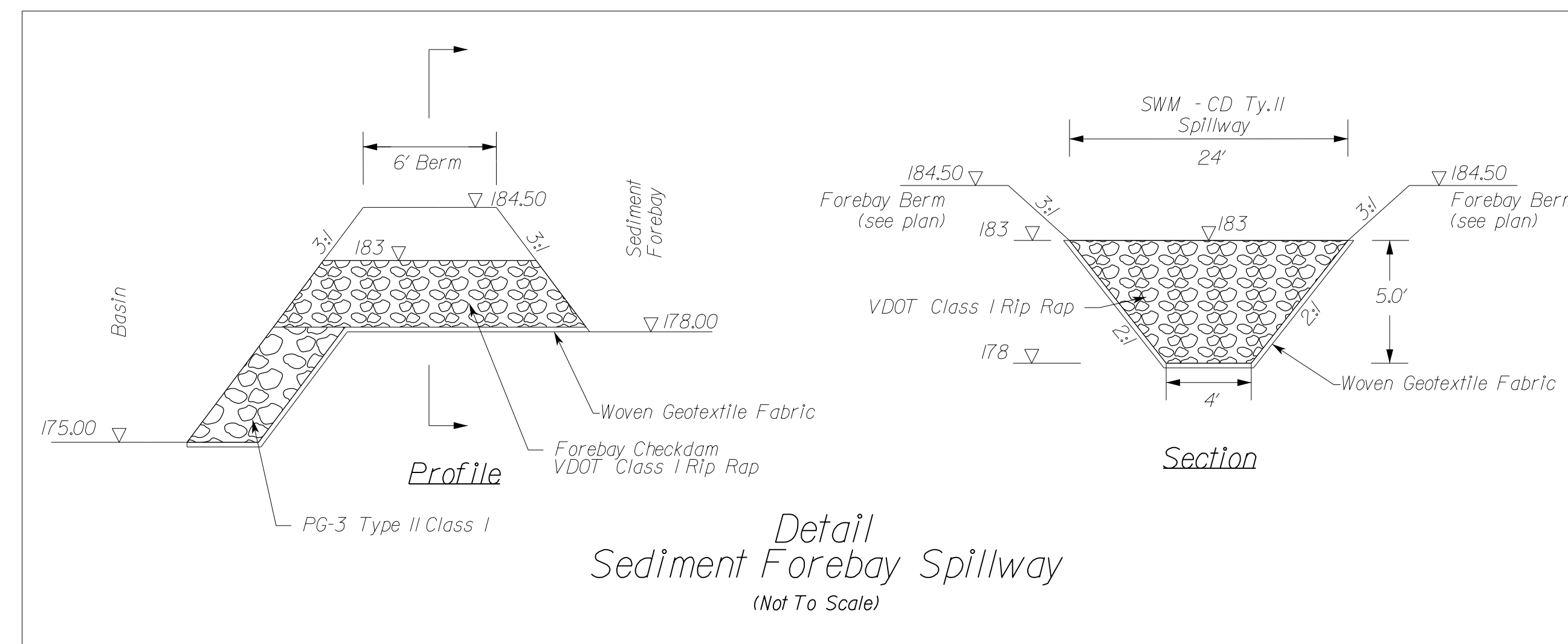
PIPE SIZE INCHES	CRADLE BOTTOM WIDTH (INCHES)	CRADLE HEIGHT (INCHES)	CRADLE TOP WIDTH (INCHES)	INCREMENT, IN CUBIC YARDS, PER LINEAR FOOT OF PIPE
12	34	14	32	0.093
15	38	15.75	35.5	0.110
18	42	17.5	39	0.129
24	50	21	46	0.168
30	58	26	53	0.233
36	66	31	60	0.307
42	74	36	67	0.390

CONCRETE SHALL BE CLASS A3 BUT NOT LESS THAN 6"
 ** IF THE PIPE IS LAID IN AN EXCAVATED TRENCH, THEN THE SIDE WALLS MAY CONFORM TO THE TRENCH SHAPE (IE THE TRENCH MAY BECOME THE CRADLE FORM).

CONCRETE CRADLE IS TO BE INSTALLED UNDER THE ENTIRE LENGTH OF CULVERT AT EACH STORMWATER MANAGEMENT BASIN.
 CONCRETE CRADLE IS TO BE PAID FOR AS MISCELLANEOUS CONCRETE AND SUMMARIZED IN CUBIC YARDS FOR EACH PIPE LOCATION

Pending slope optimization and potential for revised GER and plan set revisions

NOTES:
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 7. When installing the steps and trash rack to the control structure, the contractor shall ensure that the steps and trash rack hinged access door are oriented to the embankment side of the control structure, and are to the same side as the inlet alignment with each other.
 8. Design observes all geotechnical recommendations. Contractor shall install geogrid reinforcement in the slopes above the pond in accordance with the Geotechnical Report. Seasonal groundwater elevation and bedrock elevation have been indicated on the plans. For additional information see the Geotechnical Engineering Report prepared by ECS Mid-Atlantic, LLC.



NOVA DISTRICT

10/28/2022

APPROVED FOR CONSTRUCTION

NOT TO SCALE	VDOT PROJECT NO. 0495-029-419	SHEET NO. 2M(11) AREA 4
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PROJECT MANAGER: VDOT - Riprap, Shah, PE, (703) 259-2362
 SURVEYED BY, DATE: RDA - Nicholas, Kaugaulis, LS, (703) 334-0837, 12/2021
 DESIGN BY: RDA - Darrell, Fischer, PE, (703) 334-0823
 Dewberry - Ron, Jakimovich, PE, (703) 849-0651
 SUBSURFACE UTILITY BY, DATE: Accumark - Michael, Taylor, LS, (703) 635-3060, 12/2021

Roadside Development Area 4

REVISED	STATE	ROUTE	STATE	VDOT PROJECT NO.	SHEET NO.
	VA.	495		0495-029-419 C501 RW201	2N AREA 4

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

CORE MIX

MIX	LBS./ACRES	DESCRIPTION
1	▲	* 100% CERTIFIED FINE FESCUE
2	▲	100% CERTIFIED TALL FESCUE
3	▲ 200 100	50% CERTIFIED TALL FESCUE * 50% CERTIFIED FINE FESCUE
4	▲	50% CERTIFIED TALL FESUE 50% CERTIFIED KENTUCKY BLUEGRASS
5	▲	100% BERMUDAGRASS

ADDITIVES

TYPE	LBS./ACRES	DESCRIPTION
A	▲	100% LOVEGRASS
B	▲ 10	100% BARLEY, WINTER RYE OR WINTER WHEAT
C	▲ 10	100% FOXTAIL MILLET
D	▲ 25	100% ANNUAL RYEGRASS
E	▲	100% BIRDSFOOT TREFLOIL (LEGUME)
F	▲ 70	* * POLLINATOR SEED MIX

SEEDING SCHEDULE

CODES LISTED IN TABLE REFER TO THE LISTS OF CORE MIXES & ADDITIVES, WHICH SHOW SEED NAMES & APPLICATION RATES FOR THIS PROJECT.	SLOPES SEED MIX WITH ADDITIVE	MOWED SEED MIX WITH ADDITIVE	SLOPES SEED MIX WITH ADDITIVE	MOWED SEED MIX WITH ADDITIVE	SLOPES SEED MIX WITH ADDITIVE	MOWED SEED MIX WITH ADDITIVE	SLOPES SEED MIX WITH ADDITIVE	MOWED SEED MIX WITH ADDITIVE
	SPRING MONTH & DATE		SUMMER MONTH & DATE		FALL MONTH & DATE		WINTER/DORMANT MONTH & DATE	
	3/1 - 5/15		5/16 - 9/15		9/15 - 11/15		11/16 - 2/29	
PROJECT NUMBERS AND/OR LOCATION	3D	3D	3C	3C	3D	3D	3B	3B
* SPECIFIED TYPE(S) OF FINE FESCUE	CREEPING RED	CREEPING RED	CREEPING RED	CREEPING RED	CREEPING RED	CREEPING RED	CREEPING RED	CREEPING RED

TEMPORARY SEED MIX

DATE	LBS./ACRES	DESCRIPTION
3/1 - 5/16	▲ 100	ANNUAL RYE
5/16 - 8/16	▲ 100	FOXTAIL MILLET
8/16 - 3/1	60	BARLEY, WINTER RYE OR WINTER WHEAT

POLLINATOR SEED MIX

LITTLE BLUESTEM	15 LB
100% BARLEY, WINTER RYE OR WINTER WHEAT	10 LB
WHITE CLOVER (TRIFOLIUM REPENS)	15 LB
BLACK-EYED SUSAN (RUDBECKIA HIRTA)	20 LB
LANCED-LEAVED COREOPSIS (COREOPSIS LANCEOLATA)	10 LB

NOTES:

APPROXIMATELY 13.1 ACRES WILL BE DISTURBED ON THIS PROJECT AND WILL REQUIRE THE ESTABLISHMENT OF GRASSES AND/OR LEGUMES.

NOTES FOR FIELD USE ONLY

OVERSEEDING RATE SHALL BE 100 PERCENT OF THE SEED MIXTURE SUPPLIED WITHOUT FERTILIZER.

THE ENGINEER WILL REQUIRE THE CONTRACTOR TO PERFORM SUPPLEMENTAL SEEDING WHEN LESS THAN 75 PERCENT UNIFORM STAND OF THE PERMANENT GRASS SPECIFIED IN THE MIXTURE IS OBTAINED. (ANNUAL SPECIES SUCH AS RYE AND MILLET ARE TEMPORARY VARIETIES AND REQUIRE SUPPLEMENTAL SEEDING.)

NOTES APPLY TO SCHEDULE

LEGUME SEED MIXES (BIRDSFOOT TREFLOIL, CROWN VETCH, AND SERICEA LESPEDEZA) AND WEEPING LOVEGRASS SHALL NOT BE USED ON SHOULDERS AND OTHER LOCATIONS FLATTER THAN 3:1 SLOPE.

LEGUME SEED SHALL BE INOCULATED WITH THE APPROPRIATE STRAIN AND RATE OF BACTERIA. FOR HYDROSEEDING, USE FIVE TIMES THE DRY SEEDING RATE OF INOCULATE. A TEMPORARY MIX OR EROSION CONTROL MULCH, AS DIRECTED BY THE ENGINEER, IS TO BE USED ONLY ON AREA THAT ARE TO BE REGRADED OR LATER DISTURBED, IF LEFT DORMANT FOR MORE THAN 15 DAYS.

EROSION CONTROL MULCH, AS LISTED ON THE VDOT APPROVED PRODUCTS LIST, SHALL BE APPLIED IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS.

EROSION CONTROL MULCH SHALL PROVIDE 100 PERCENT COVERAGE OF ALL DENUDED AREAS.

SPRING & SUMMER AND FALL & WINTER DEFINED FOR THE PURPOSE OF DETERMINING WHETHER HULLED OR UNHULLED BERMUDA GRASS AND SERICEA LESPEDEZA SEED IS REQUIRED.

SPRING AND SUMMER 4/1 9/15 USE HULLED SEED FALL & WINTER 9/15 4/1 USE UNHULLED SEED

TYPE I MULCH (STRAW) TO BE USED ON NEWLY SEEDED AREAS ADJACENT TO ALL WATERWAYS, WETLANDS, SWAMPS, OR ANY AREA IN WHICH DRAINAGE FLOWS TOWARD AREAS UNDER THE JURISDICTION OF THE ENVIRONMENTAL REGULATORY AGENCIES.

TYPE I MULCH SHALL BE TACKED WITH FIBER MULCH AT THE RATE OF 750 LBS. PER ACRE AND/OR MULCH TACKIFIER.

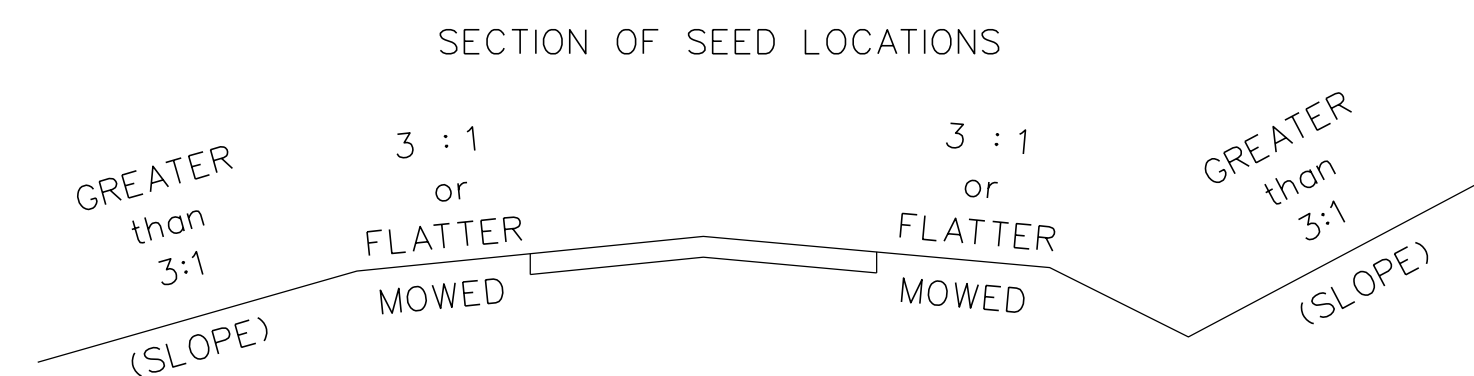
TYPE II MULCH (FIBER MULCH) MAY BE SUBSTITUTED FOR TYPE I MULCH AT THE RECOMMENDATION OF THE DISTRICT ROADSIDE MANAGER.

TYPE II MULCH SHALL BE APPLIED AT A RATE OF 1500 LBS. (NET DRY WEIGHT) PER ACRE TO PROVIDE A MINIMUM OF 90 PERCENT COVERAGE, AND SHALL BE APPLIED IN A SEPARATE APPLICATION.

ALL TOPSOIL IS TO BE FREE OF HARD LUMPS, CLODS, ROCKS AND FOREIGN DEBRIS AND IS TO BE HAND RAKED TO TIE INTO EXISTING LAWNS.

ALL SEED MUST BE IN CONFORMANCE WITH VDOT SEED SPECIFICATIONS FOR GRASSES & LEGUME AND BE PROVIDED AT THE PROJECT SITE IN BAGS NOT OPENED AND LABELED FOR USE ON VDOT PROJECTS WITH A GREEN TAG CERTIFYING INSPECTION BY THE VIRGINIA CROP IMPROVEMENT ASSOCIATION.

- * FINE FESCUES INCLUDE CHEWINGS, CREEPING RED, HARD, SHEEP. SEE SEEDING SCHEDULE FOR TYPE(S) SPECIFIED FOR THIS PROJECT.
- ▲ ALL RATES TO BE SPECIFIED BY THE DISTRICT ROADSIDE MANAGER
- * * THESE ADDITIVES ARE NOT TO BE USED IN AREAS THAT WILL BE MOWED. (SLOPES 3:1 OR FLATTER)




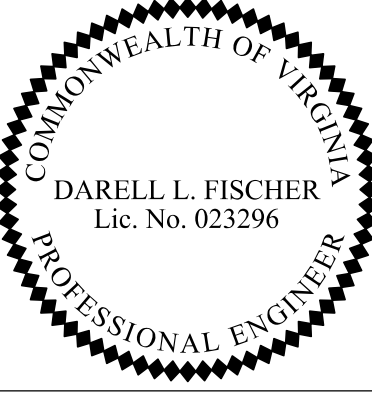
ROADSIDE DEVELOPMENT SUMMARY

PROJECT NUMBERS AND/OR LOCATION DESC.	REGULAR SEED LBS.	OVER SEEDING LBS.	LEGUME SEED LBS.	LEGUME OVER SEEDING LBS.	TEMPORARY SEED LBS.	TOPSOIL (CLASS & DEPTH) C.Y./ACRES	LIME TONS	FERTILIZER - REGULAR				HECP (TYPE 1) S. Y.	HECP (TYPE 2) S. Y.	HECP (TYPE 3) S. Y.	HECP (TYPE 4) S. Y.
								N NITROGEN LBS.	P PHOSPHORUS LBS.	K POTASSIUM LBS.					
0495-029-419	1965	1572			309	2.21 AC.	48.94	1065	1344	672					
								FERTILIZER - TEMPORARY							
								-	-	-					
								FERTILIZER - OVERSEEDING							
								-	-	-					

⊗ DENOTES ITEM(S) TO BE PAID FOR ON THE BASIS OF PLAN QUANTITIES IN ACCORDANCE WITH THE APPLICABLE PROVISIONS OF THE CURRENT ROAD AND BRIDGE SPECIFICATIONS.

FERTILIZER (15-30-15) = 3,500 LBS. (REGULAR & TEMPORARY)
 FERTILIZER (46-0-0) = 522 LBS. (OVERSEEDING)

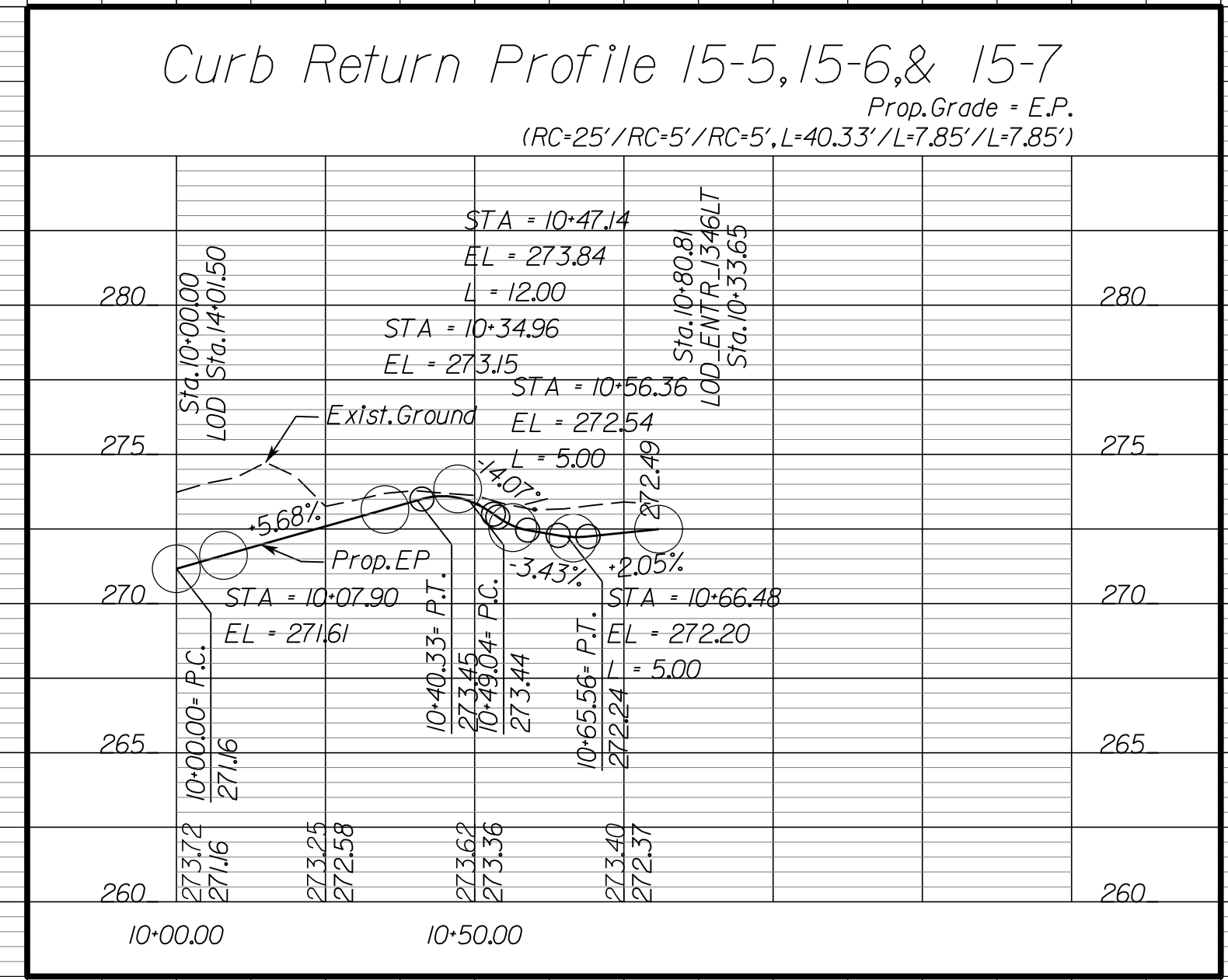
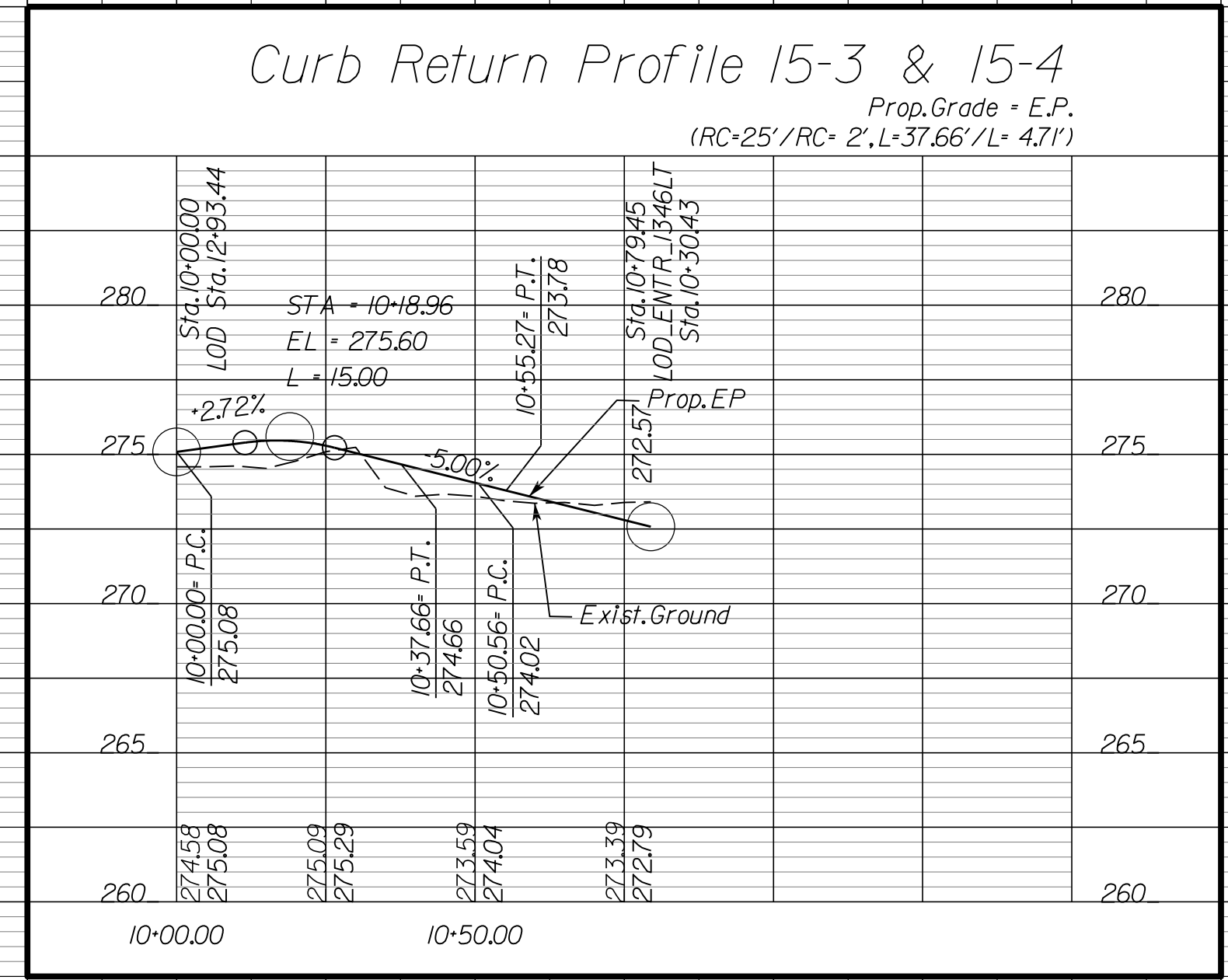
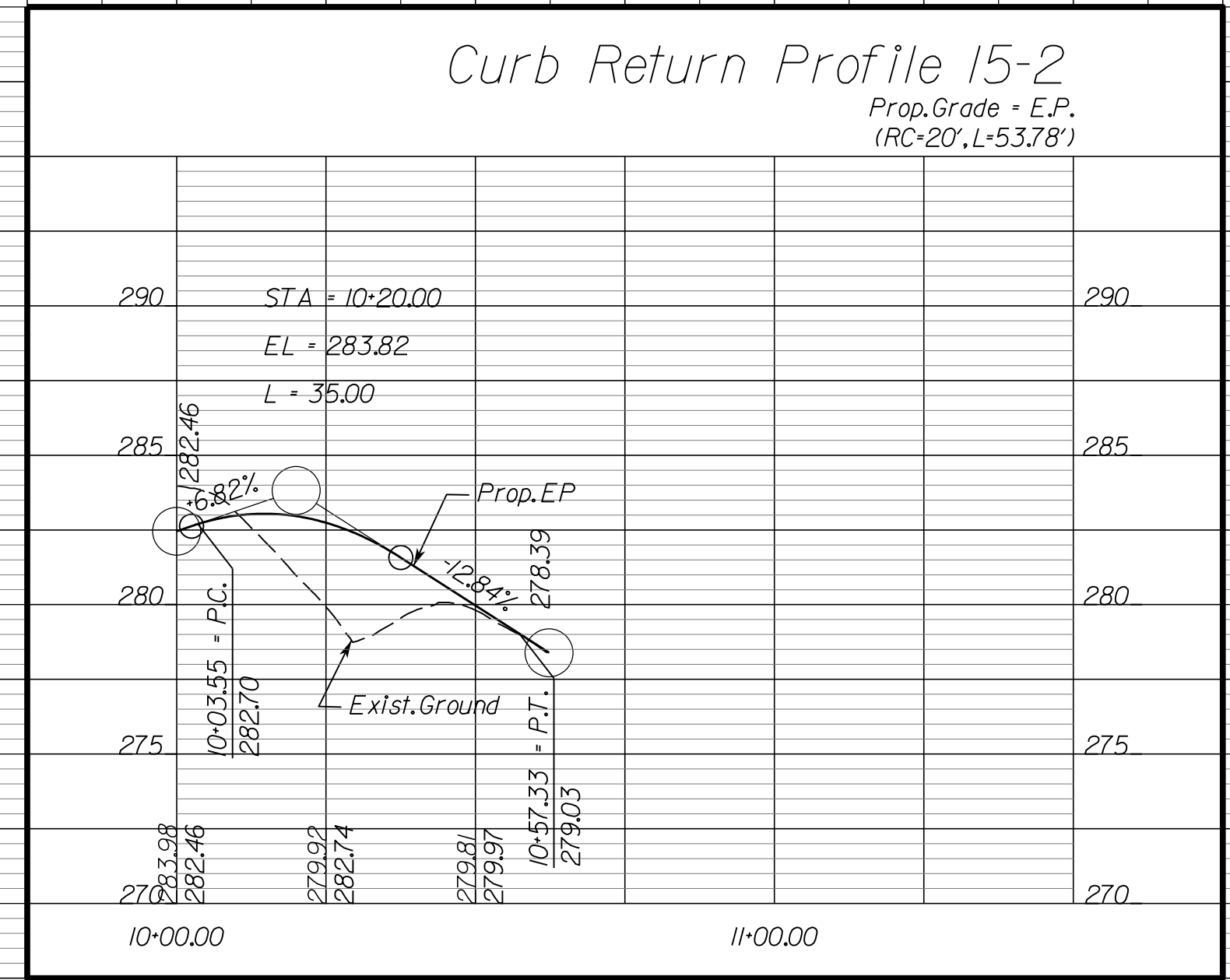
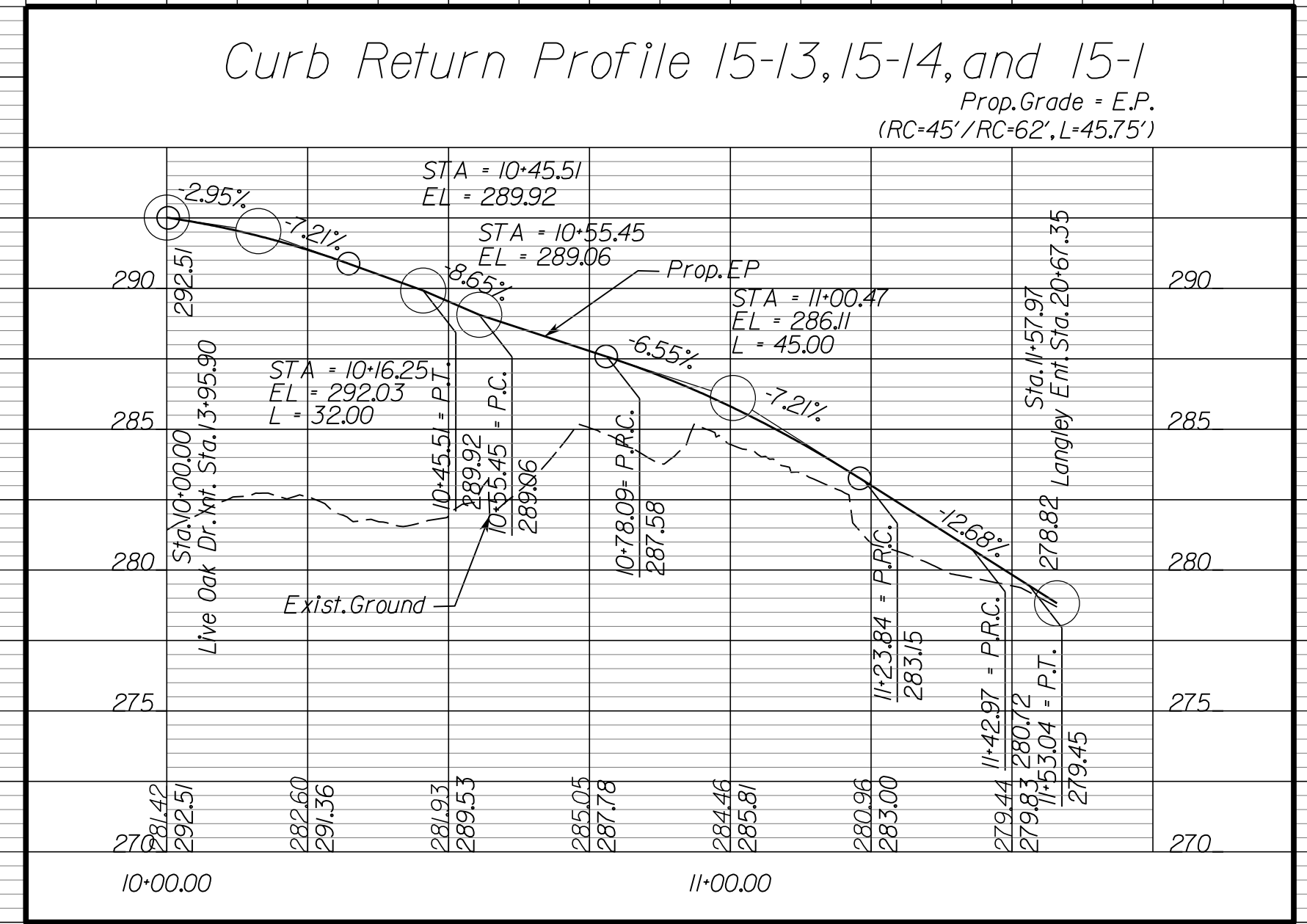
PROJECT MANAGER_VDOT - Rimal Stab PE, (703) 259-2362
 SURVEYED BY, DATE - BDA - Nicolas Kougoullis LS, (703) 334-0837, 12/2021
 DESIGN BY - BDA - Darel Fischer PE, (703) 334-0823
 SUBSURFACE UTILITY BY, DATE - Accumark - Michael Taylor LS, (703) 635-3060, 12/2021

 SHANNON L. MATTISON Lic. No. 036540 PROFESSIONAL ENGINEER	 DARELL L. FISCHER Lic. No. 023296 PROFESSIONAL ENGINEER

REVISED	STATE	ROUTE	STATE PROJECT	SHEET NO
	VA.	495	0495-029-419 C501 RW201	20 AREA 4

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

CURB RETURN PROFILES





NOVA DISTRICT

10/26/2022

SCALE: HORIZ: 1"=25', VERT: 1"=5'
 VDOT PROJECT NO. 0495-029-419
 SHEET NO. 20
 AREA 4

APPROVED FOR CONSTRUCTION

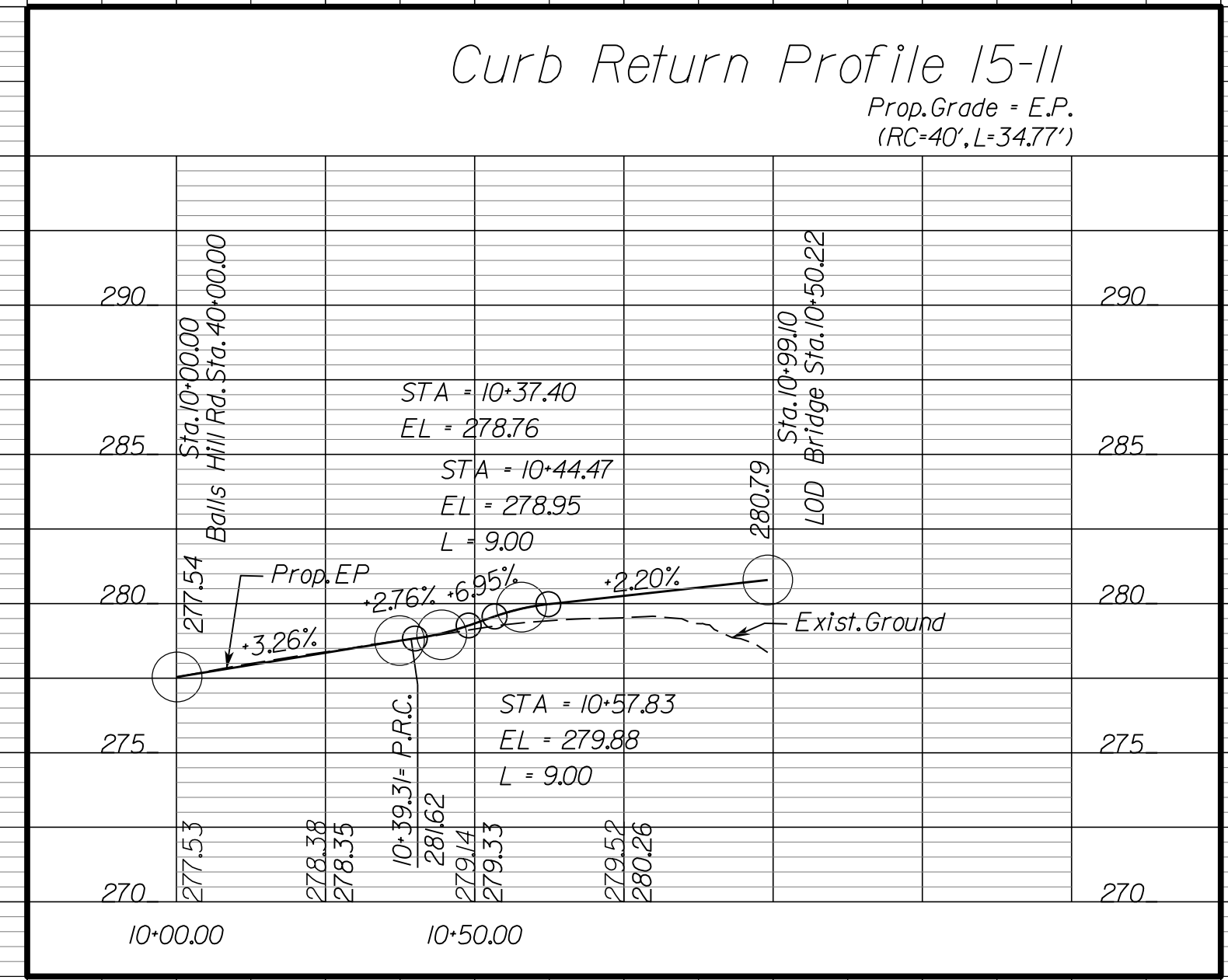
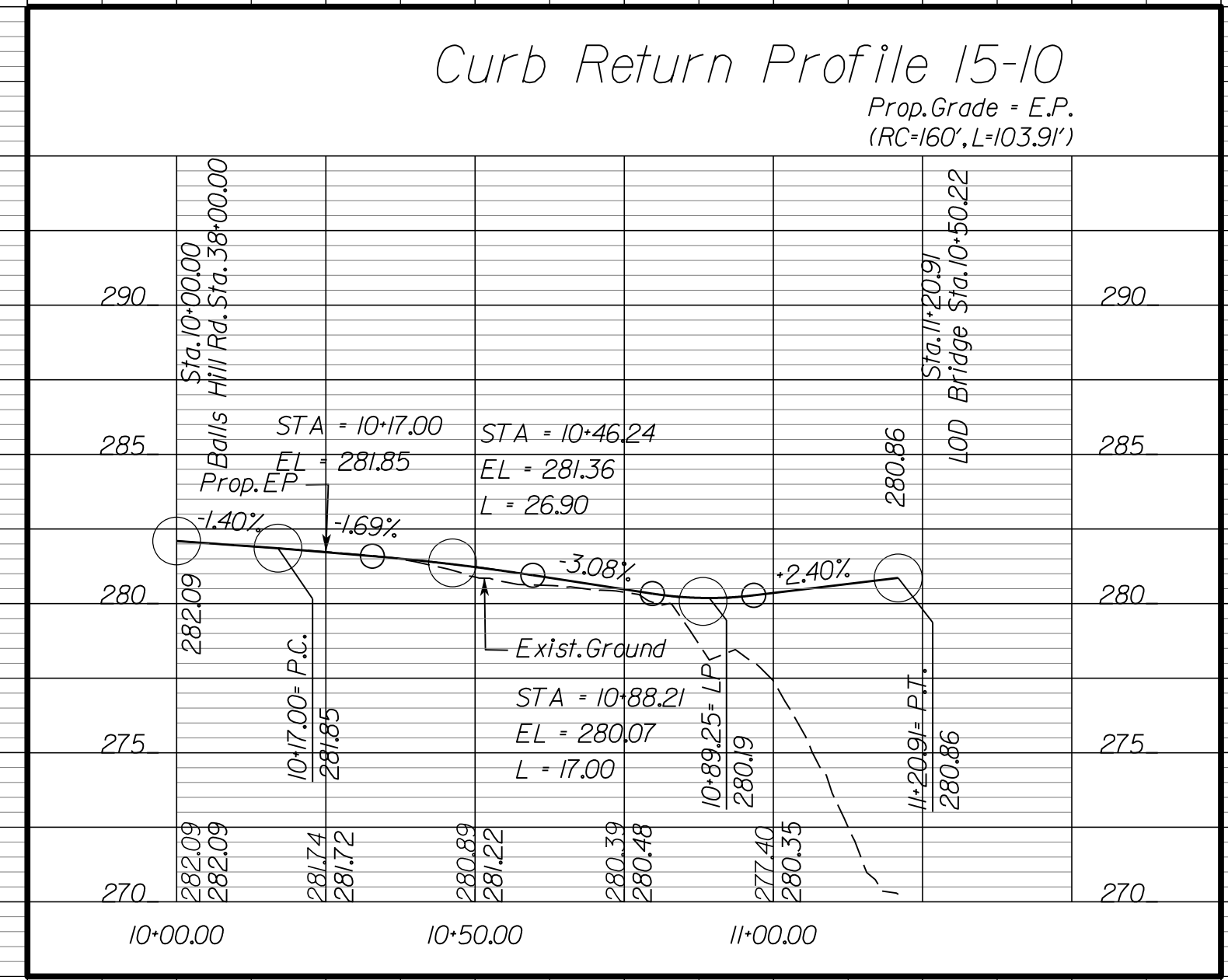
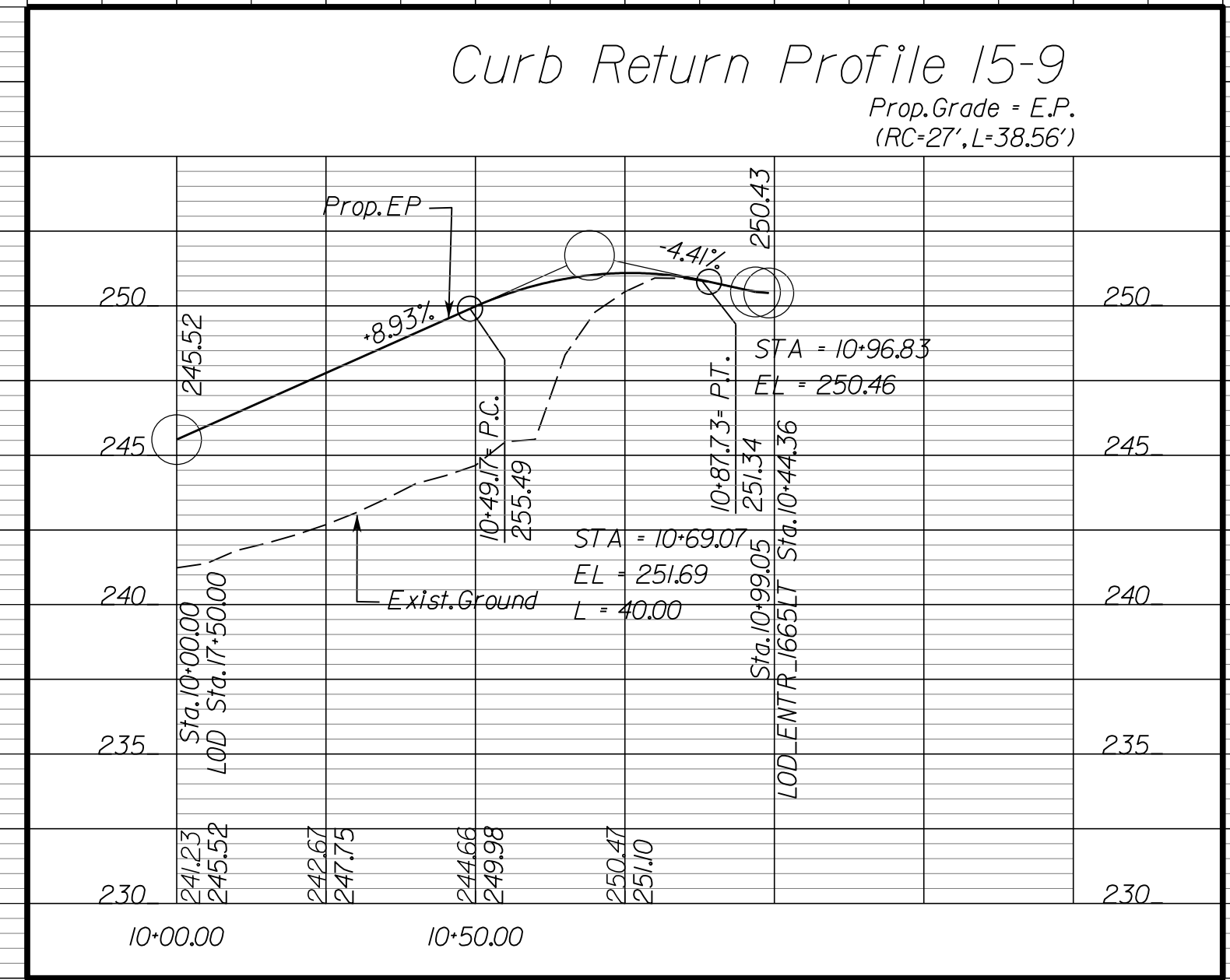
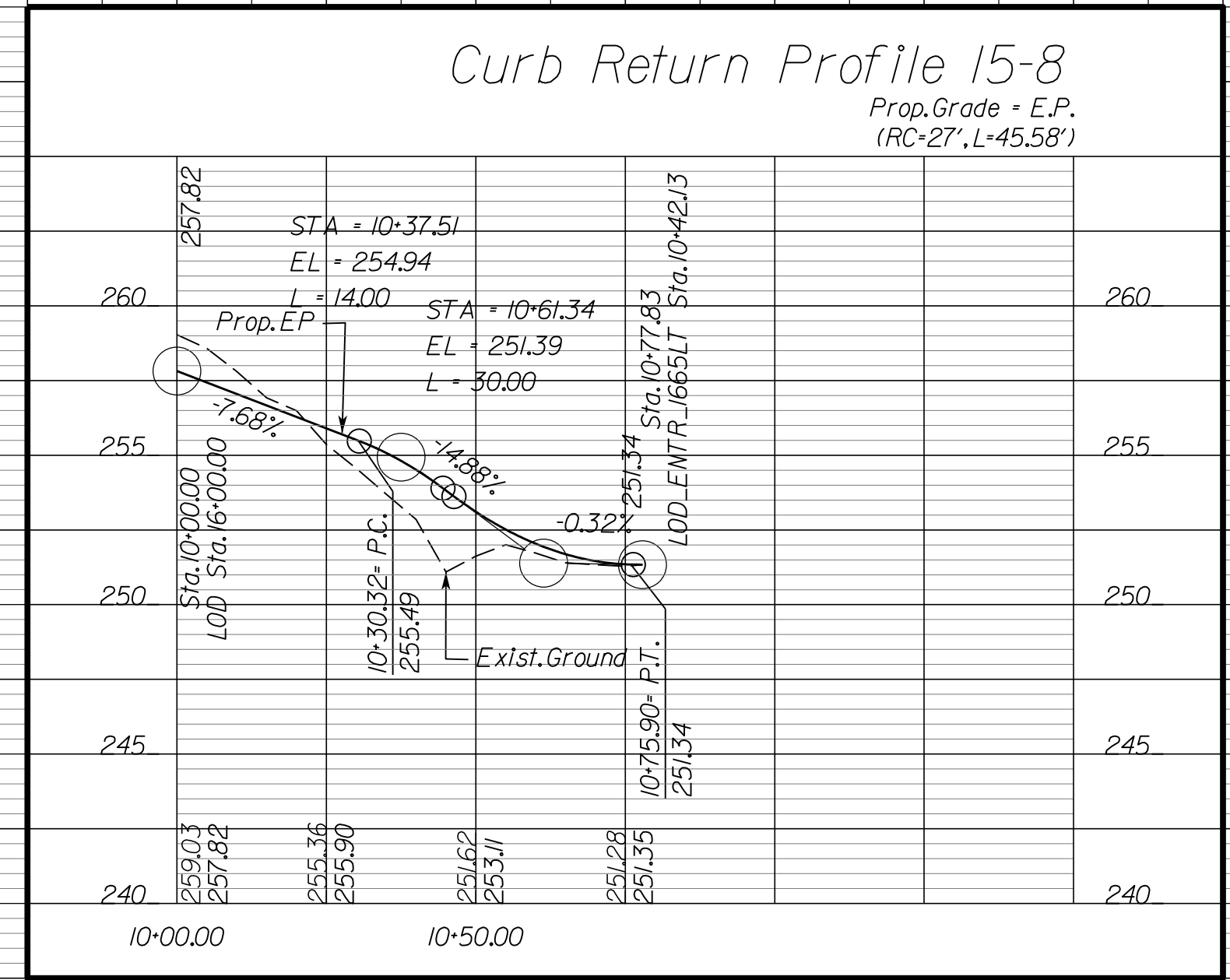
PROJECT MANAGER_VDOT - Rimal Stab PE (703) 259-2362
 SURVEYED BY_DATE_BDA - Nicolas Kougoullis LS (703) 334-0837 12/2021
 DESIGN BY_BDA - Darell Fischer PE (703) 334-0823
 SUBSURFACE UTILITY BY_DATE_Accumark - Michele Taylor LS (703) 635-3060 12/2021

 SHANNON L. MATTISON Lic. No. 036540 PROFESSIONAL ENGINEER	 DARELL L. FISCHER Lic. No. 023296 PROFESSIONAL ENGINEER

REVISED	STATE	ROUTE	STATE PROJECT	SHEET NO.
	VA.	495	0495-029-419 C501 RW201	20(1) AREA 4

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

CURB RETURN PROFILES



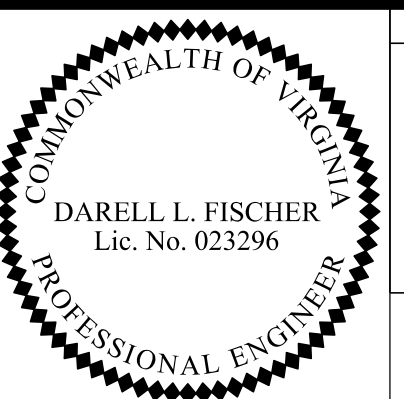
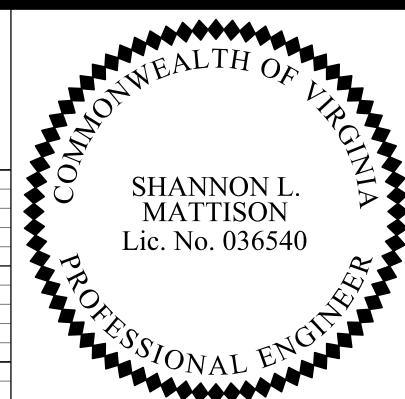
NOVA DISTRICT

10/26/2022

SCALE HORIZ: 1"=25' VERT: 1"=5'
 VDOT PROJECT NO. 0495-029-419
 SHEET NO. 20(1) AREA 4

APPROVED FOR CONSTRUCTION

PROJECT MANAGER_VDOT - Rimpal Shah PE, (703) 259-2362
SURVEYED BY, DATE - BDA - Nicholas Kougoullis LS, (703) 334-0837, 12/2/2021
DESIGN BY - BDA - Darel L. Fischer PE, (703) 334-0823
SUBSURFACE UTILITY BY, DATE Accumark - Michael Taylor LS, (703) 635-3060, 12/2/2021



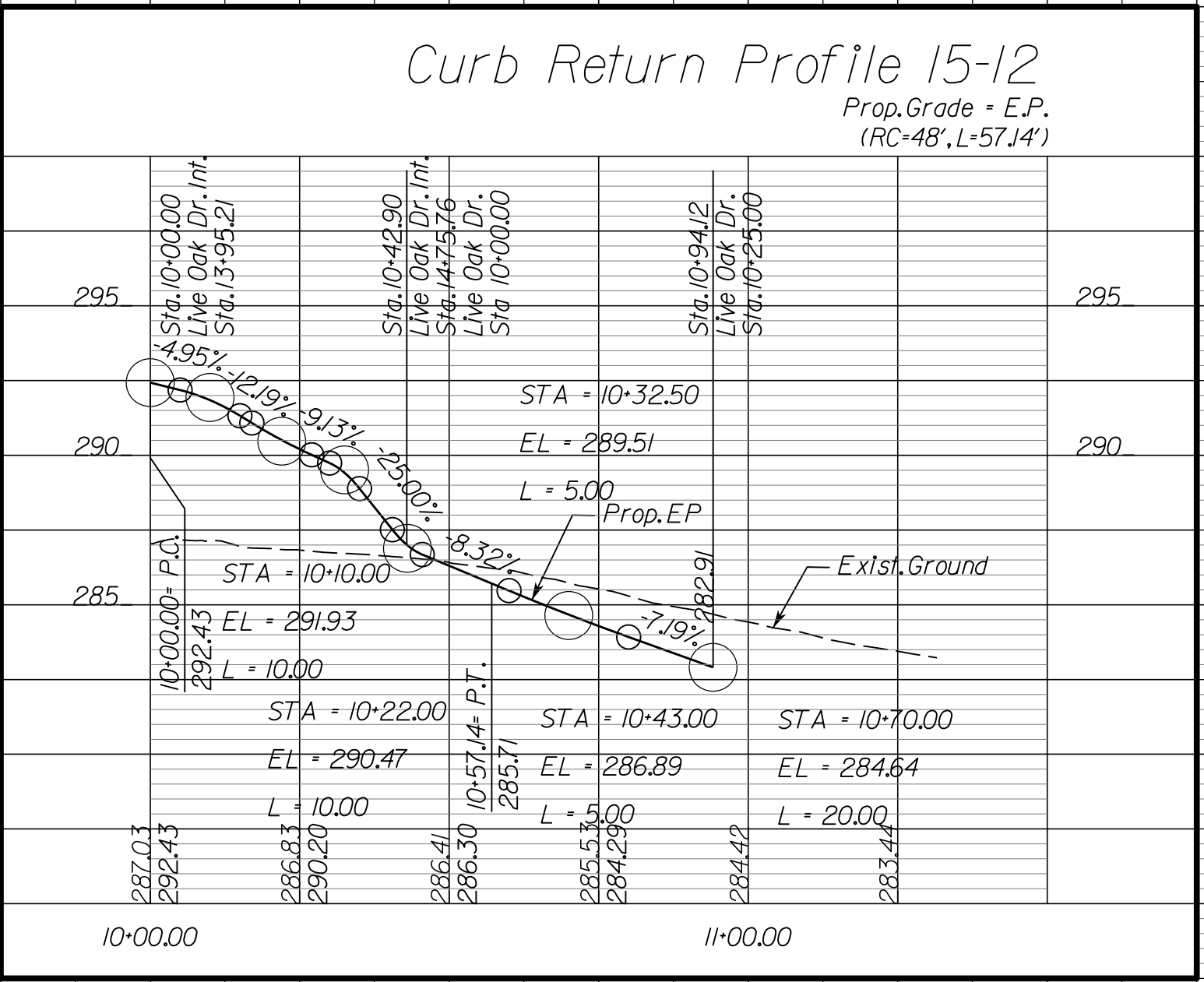
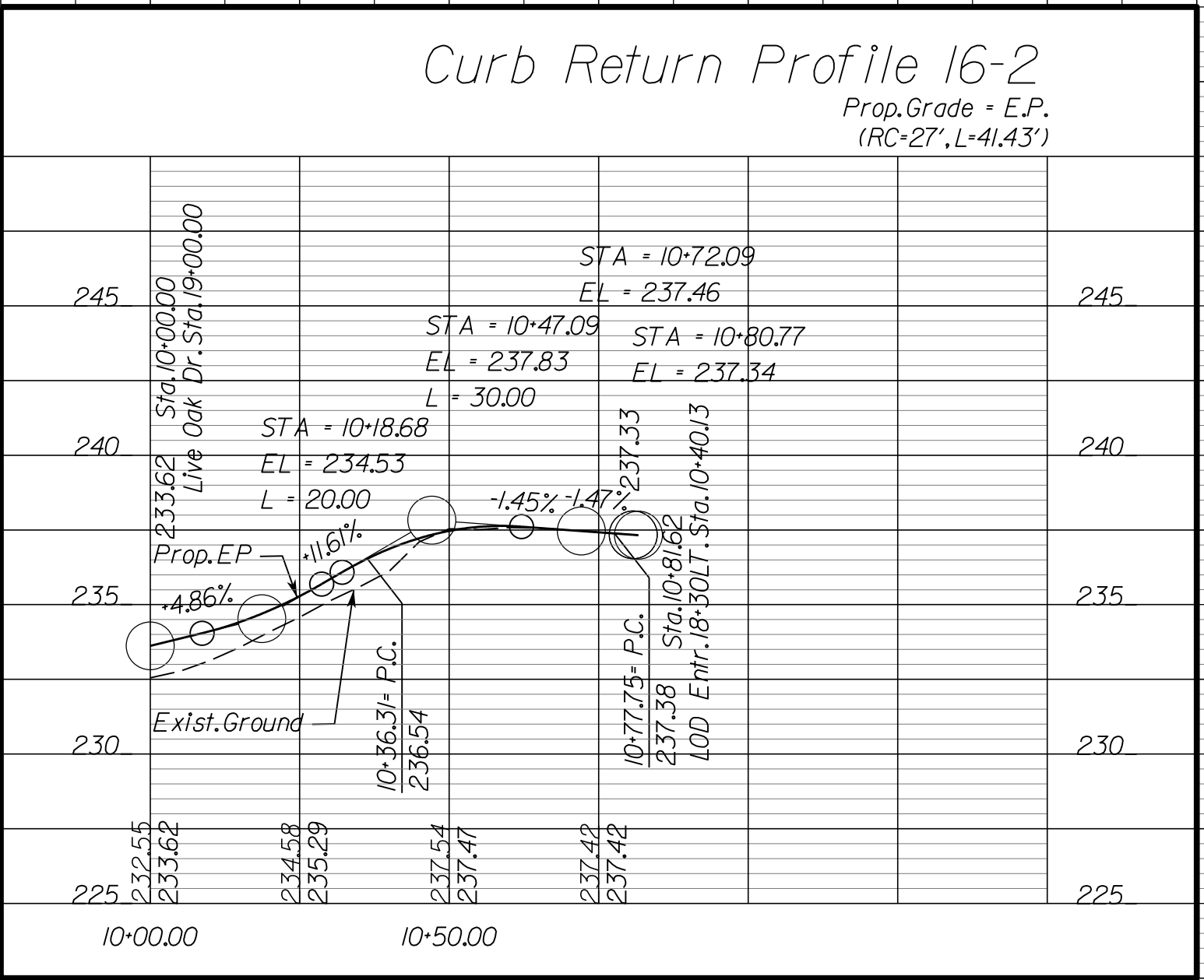
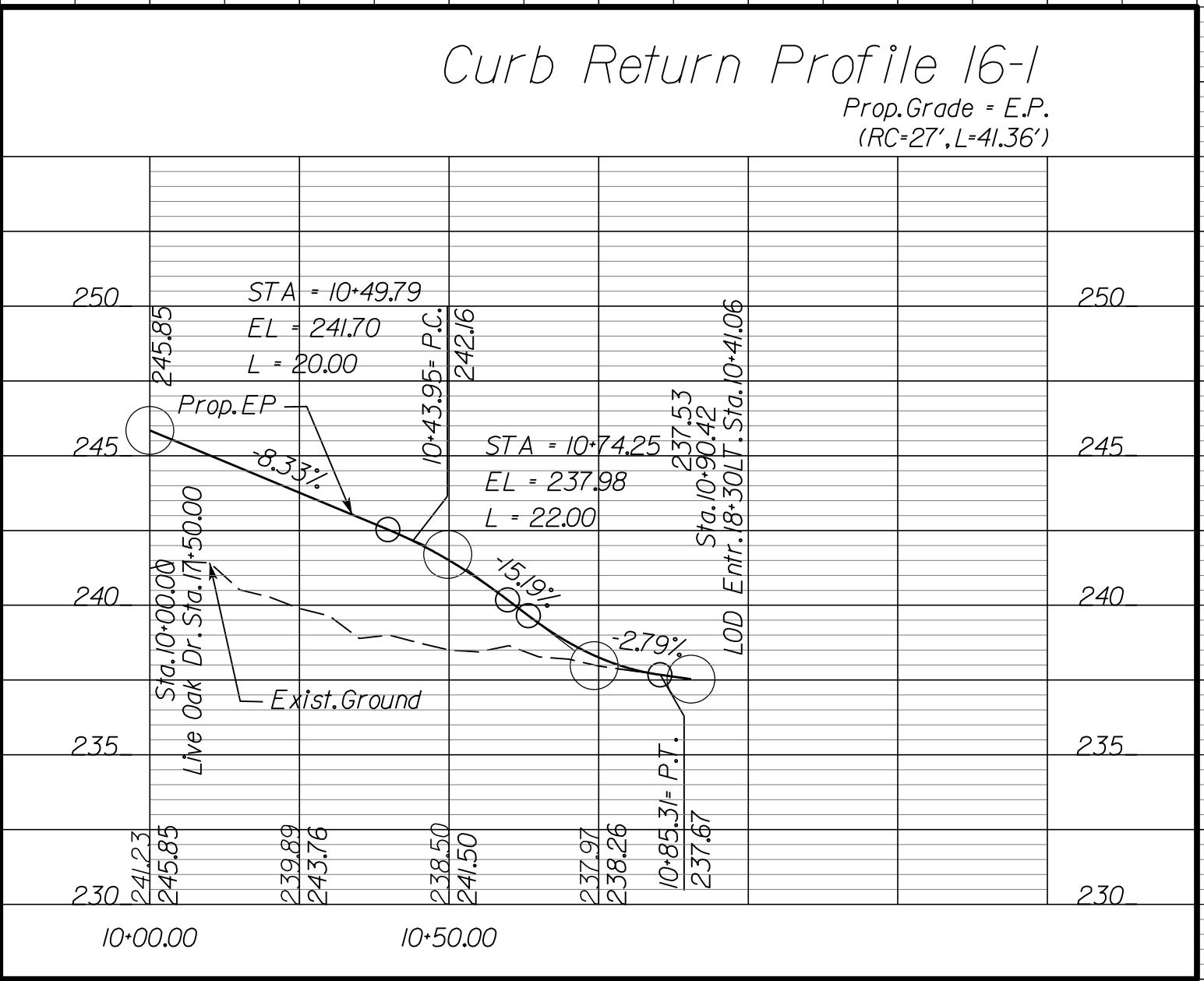
REVISED	STATE		STATE		SHEET NO
	STATE	ROUTE	PROJECT	PROJECT	
	VA.	495	0495-029-419 CSO1 RW201		20(2) AREA 4

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

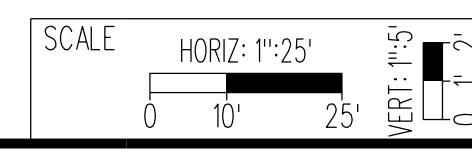
Rinker Design Assoc., P.C.
Manassas, Virginia
(HYDRAULICS ENGINEER)

Rinker Design Assoc., P.C.
Manassas, Virginia
(ROADWAY ENGINEER)

CURB RETURN PROFILES



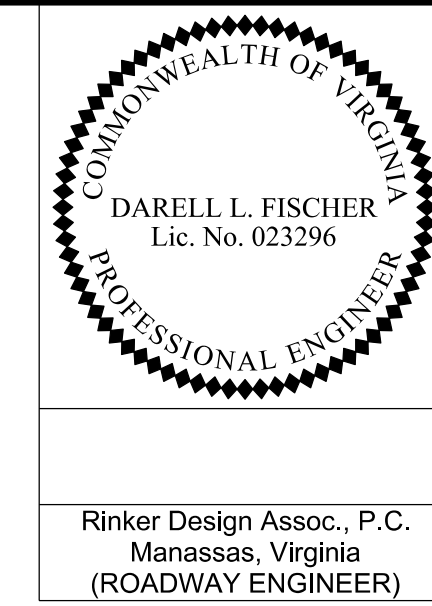
NOVA DISTRICT



APPROVED FOR CONSTRUCTION

PROJECT MANAGER_VDOT - Rupal Shah, P.E. (703) 259-2362
 SURVEYED BY, DATE_RDA - Nicholas Kougaull's LS (703) 334-0837, 12/2021
 DESIGN BY_RDA - Darrell Fischer, P.E. (703) 334-0823
 SUBSURFACE UTILITY BY, DATE_Accumark - Michael Taylor, LS (703) 635-3060, 12/2021

Radial Offsets/Bullet Nose Data



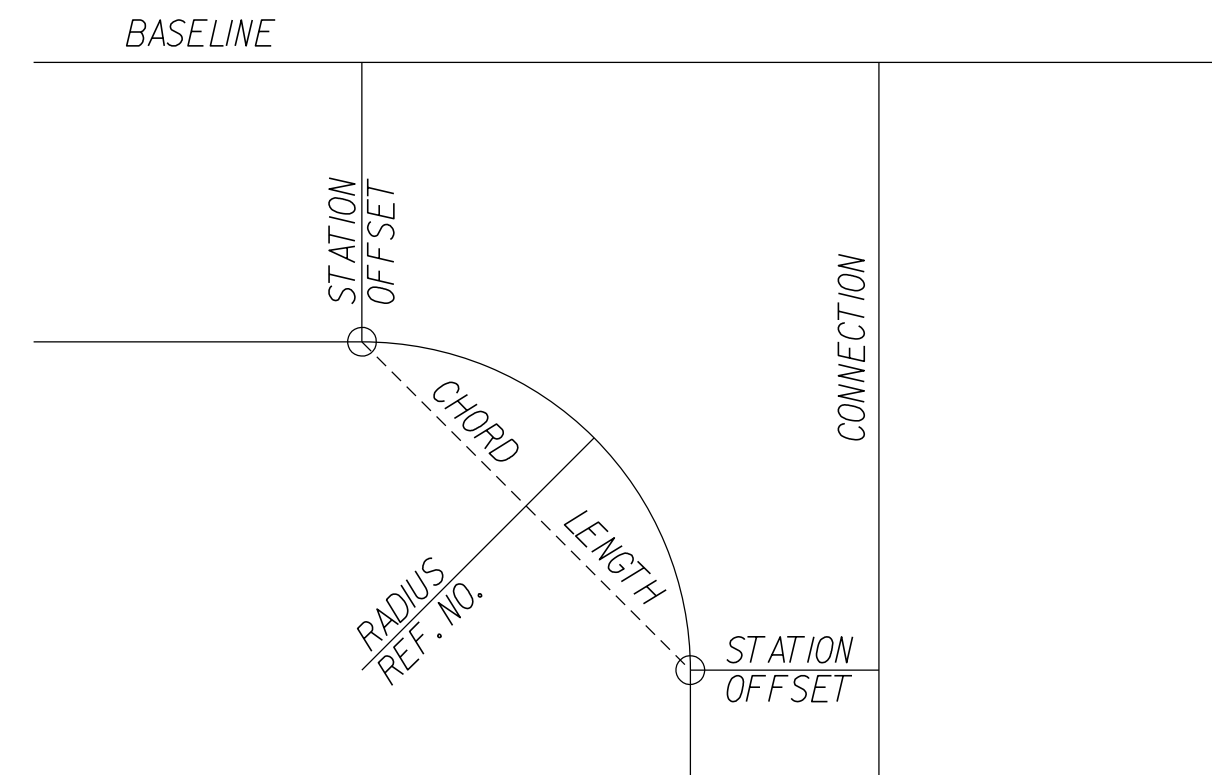
REVISED	STATE	ROUTE	STATE	VDOT PROJECT NO.	SHEET NO.
	VA.	495		0495-029-419 C501 RW201	20(3) AREA 4

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

Rinker Design Assoc., P.C.
 Manassas, Virginia
 (ROADWAY ENGINEER)

RADIAL OFFSETS / BULLET NOSE DATA

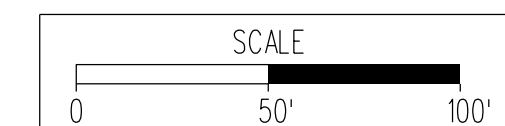
Information is Measured from the Edge of Pavement



LOCATION (REF. NO.)	BASELINE		CONNECTION		RADIUS LENGTH FEET	CHORD LENGTH FEET	CURVE LENGTH FEET	LOCATION (REF. NO.)	BASELINE		CONNECTION		RADIUS LENGTH FEET	CHORD LENGTH FEET	CURVE LENGTH FEET
	SHEET - ITEM	STATION	OFFSET	STATION					OFFSET	SHEET - ITEM	STATION	OFFSET			
15-1	14+60.77	11.00 (LT)	20+37.21	5.50 (LT)	62.00	44.72	45.75								
15-2	10+46.45	10.00 (LT)	20+62.38	5.50 (RT)	20.00	38.98	53.78								
15-3	12+93.44	12.00 (LT)	10+33.56	29.66 (LT)	25.00	34.20	37.66								
15-4	10+46.45	29.66 (LT)	10+47.87	33.07 (LT)	2.00	3.69	4.71								
15-5	14+01.50	12.00 (LT)	10+40.19	29.00 (RT)	25.00	36.10	40.33								
15-6	10+48.89	29.00 (RT)	10+53.89	34.00 (RT)	5.00	7.07	7.85								
15-7	10+53.89	34.82 (RT)	10+48.89	39.82 (RT)	5.00	7.07	7.85								
15-8	16+30.32	10.00 (LT)	10+40.16	7.57 (LT)	27.00	40.36	45.58								
15-9	17+00.83	10.00 (LT)	10+33.17	9.40 (RT)	27.00	35.37	38.57								
15-10	38+17.00	11.00 (LT)	10+27.35	23.66 (LT)	160.00	75.89	76.62								
15-11	39+62.17	11.00 (LT)	10+34.31	19.28 (RT)	40.00	41.08	43.14								
15-12	14+07.27	26.40 (RT)	10+20.59	17.65 (RT)	48.00	49.62	52.15								
15-13	13+95.90	11.00 (LT)	14+33.73	11.00 (LT)	65.17	44.59	45.51								
15-14	14+43.67	11.00 (LT)	14+60.77	11.00 (LT)	45.00	22.40	22.63								
16-1	17+93.95	10.00 (LT)	10+35.95	9.12 (LT)	27.00	37.43	41.36								
16-2	18+62.89	10.00 (LT)	10+36.26	8.75 (RT)	27.00	37.49	41.44								

NOVA DISTRICT

10/26/2022

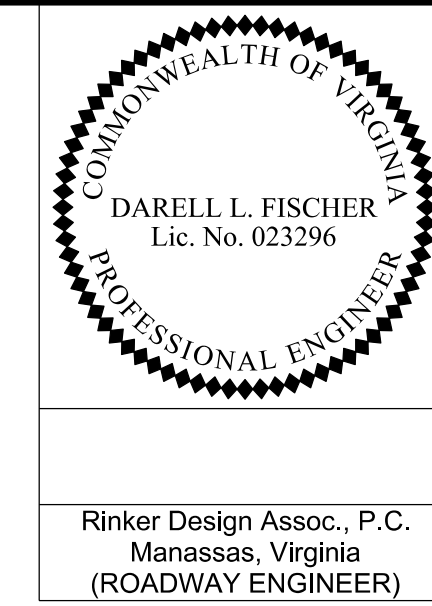


VDOT PROJECT NO. 0495-029-419
 SHEET NO. 20(3)
 AREA 4

APPROVED FOR CONSTRUCTION

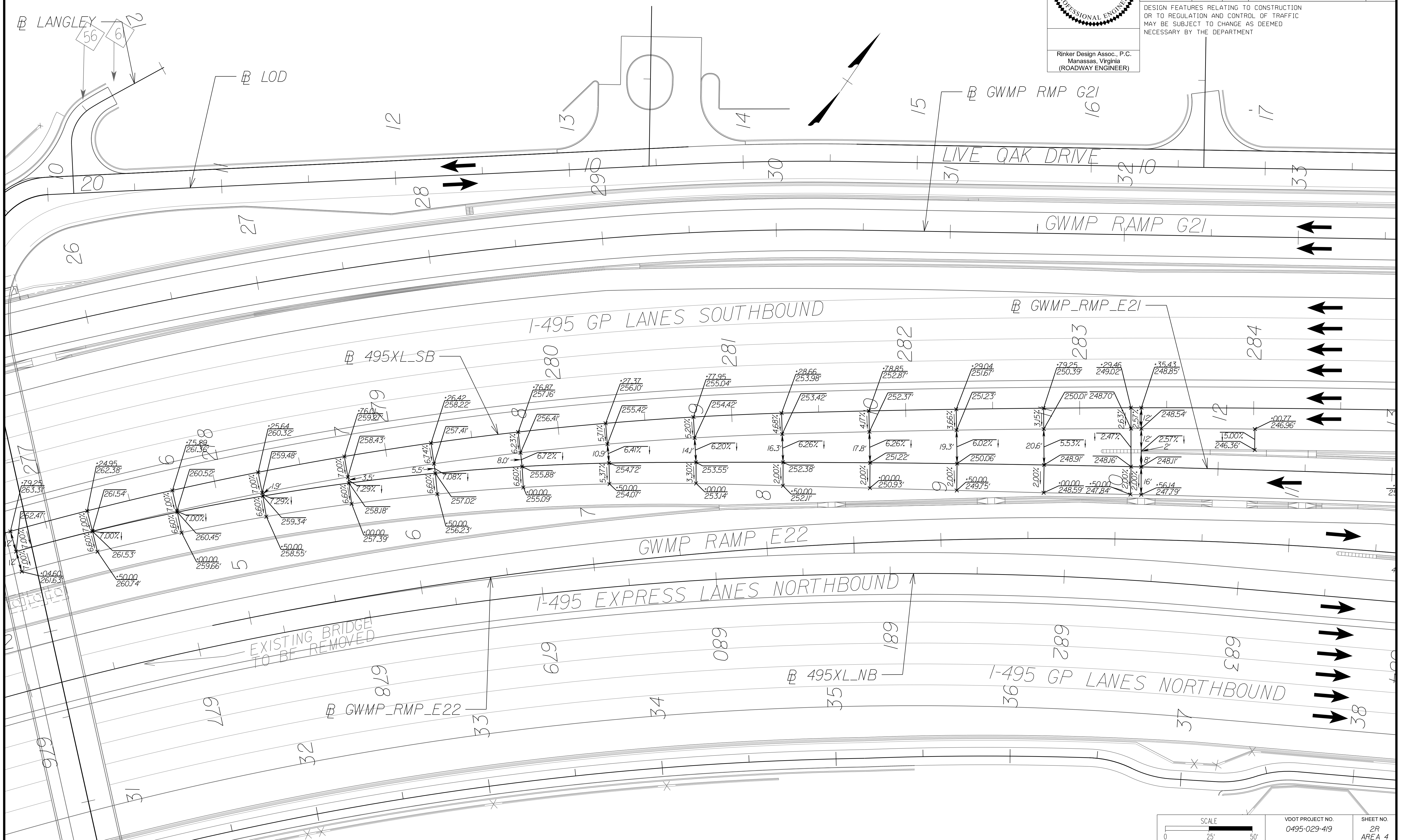
PROJECT MANAGER VDOT - Rupal Shah, P.E. (703) 259-2362
 SURVEYED BY, DATE RDA - Nicholas Kaugall's, LS (703) 334-0837, 12/2021
 DESIGN BY RDA - Darrell Fischer, P.E. (703) 334-0823
 SUBSURFACE UTILITY BY, DATE Accumark - Michael Taylor, LS (703) 635-3060, 12/2021

GORE DETAILS



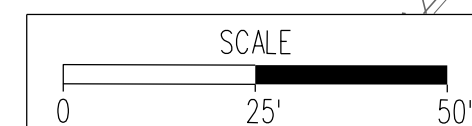
REVISED	STATE	ROUTE	STATE	VDOT PROJECT NO.	SHEET NO.
	VA.	495		0495-029-419 C501 RW201	2R AREA 4

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



NOVA DISTRICT

10/26/2022

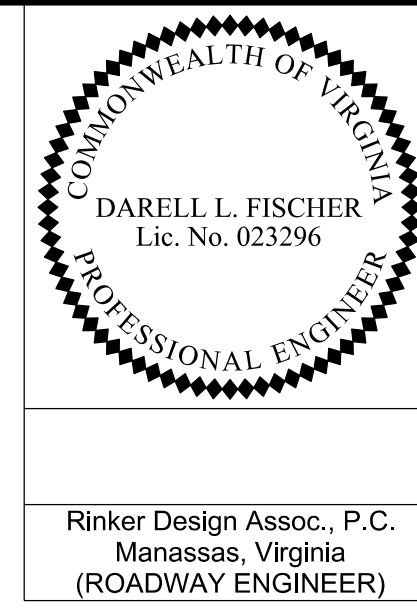


VDOT PROJECT NO. 0495-029-419	SHEET NO. 2R AREA 4
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APPROVED FOR CONSTRUCTION

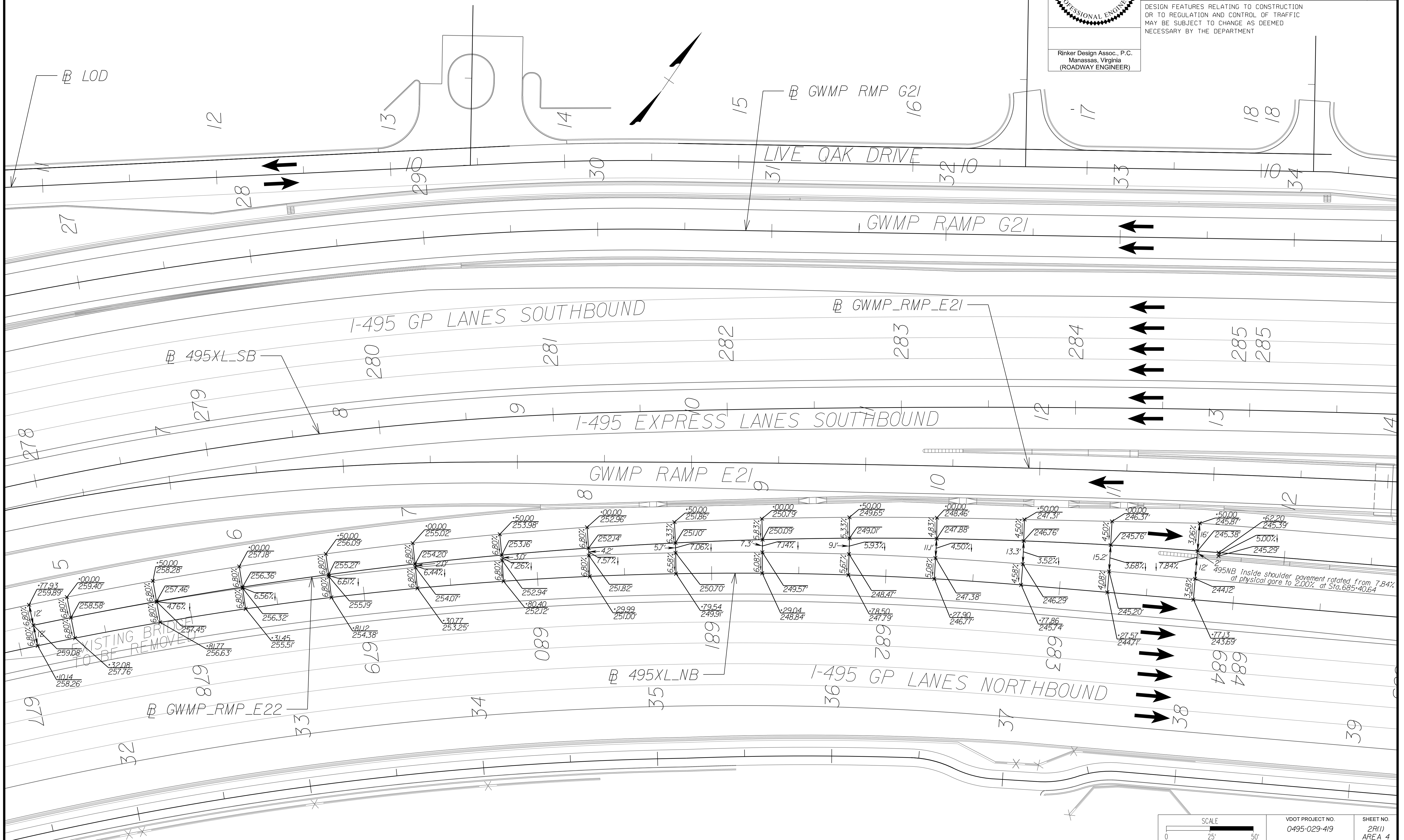
PROJECT MANAGER_VDOT - Rupal Shah, PE, (703) 259-2362
SURVEYED BY, DATE_RDA - Nicholas Kougoullis, LS, (703) 334-0837, 12/2021
DESIGN BY_RDA - Darrell Fischer, PE, (703) 334-0823
SUBSURFACE UTILITY BY, DATE_Accurmark - Michael Taylor, LS, (703) 635-3060, 12/2021

GORE DETAILS



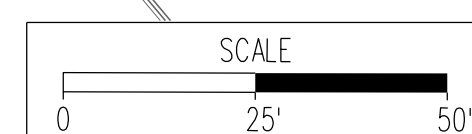
REVISED	STATE	ROUTE	STATE	VDOT PROJECT NO.	SHEET NO.
	VA.	495		0495-029-419 C501 RW201	2R(1) AREA 4

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



NOVA DISTRICT

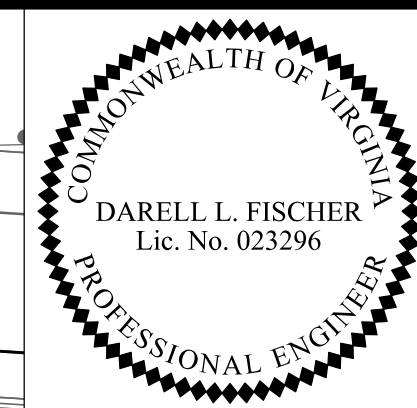
10/26/2022



VDOT PROJECT NO. 0495-029-419	SHEET NO. 2R(1) AREA 4
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APPROVED FOR CONSTRUCTION

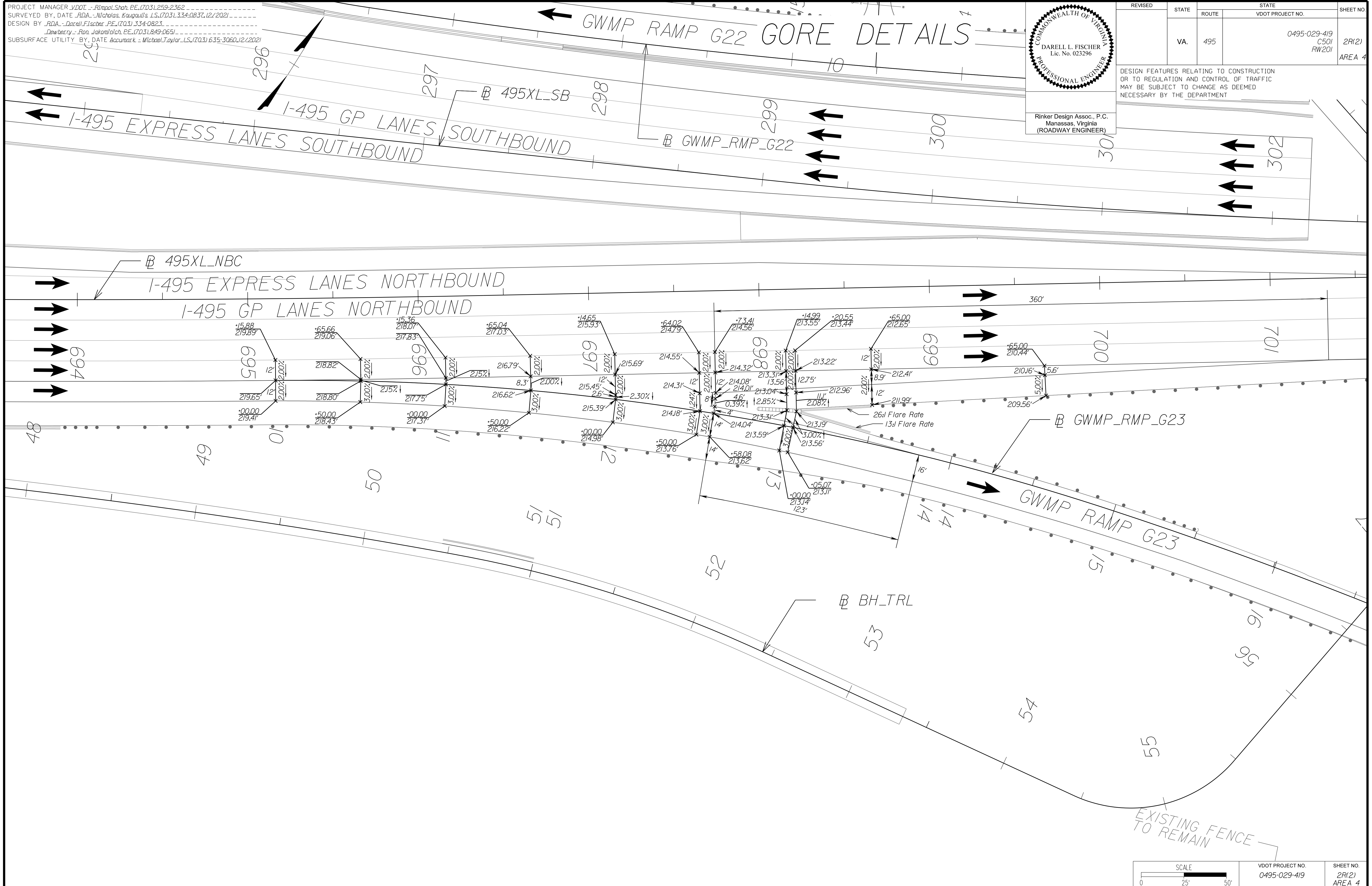
PROJECT MANAGER VDOT - Rupal Shah, PE, (703) 259-2362
SURVEYED BY, DATE RDA - Nicholas Kougoullis, LS, (703) 334-0837, 12/2021
DESIGN BY RDA - Darrell Fischer, PE, (703) 334-0823
SUBSURFACE UTILITY BY, DATE Accurark - Michael Taylor, LS, (703) 635-3060, 12/2021



Rinker Design Assoc., P.C.
Manassas, Virginia
(ROADWAY ENGINEER)

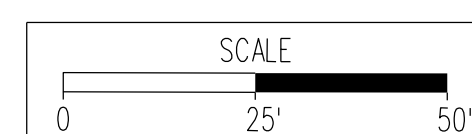
REVISED	STATE	ROUTE	STATE	VDOT PROJECT NO.	SHEET NO.
	VA	495		0495-029-419 C501 RW201	2R(2) AREA 4

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



NOVA DISTRICT

10/26/2022

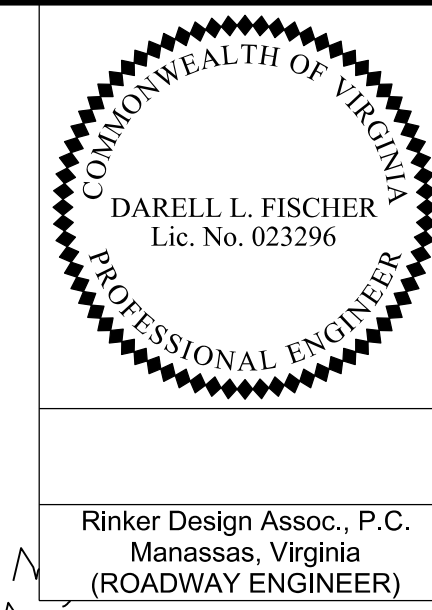


VDOT PROJECT NO. 0495-029-419	SHEET NO. 2R(2) AREA 4
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APPROVED FOR CONSTRUCTION

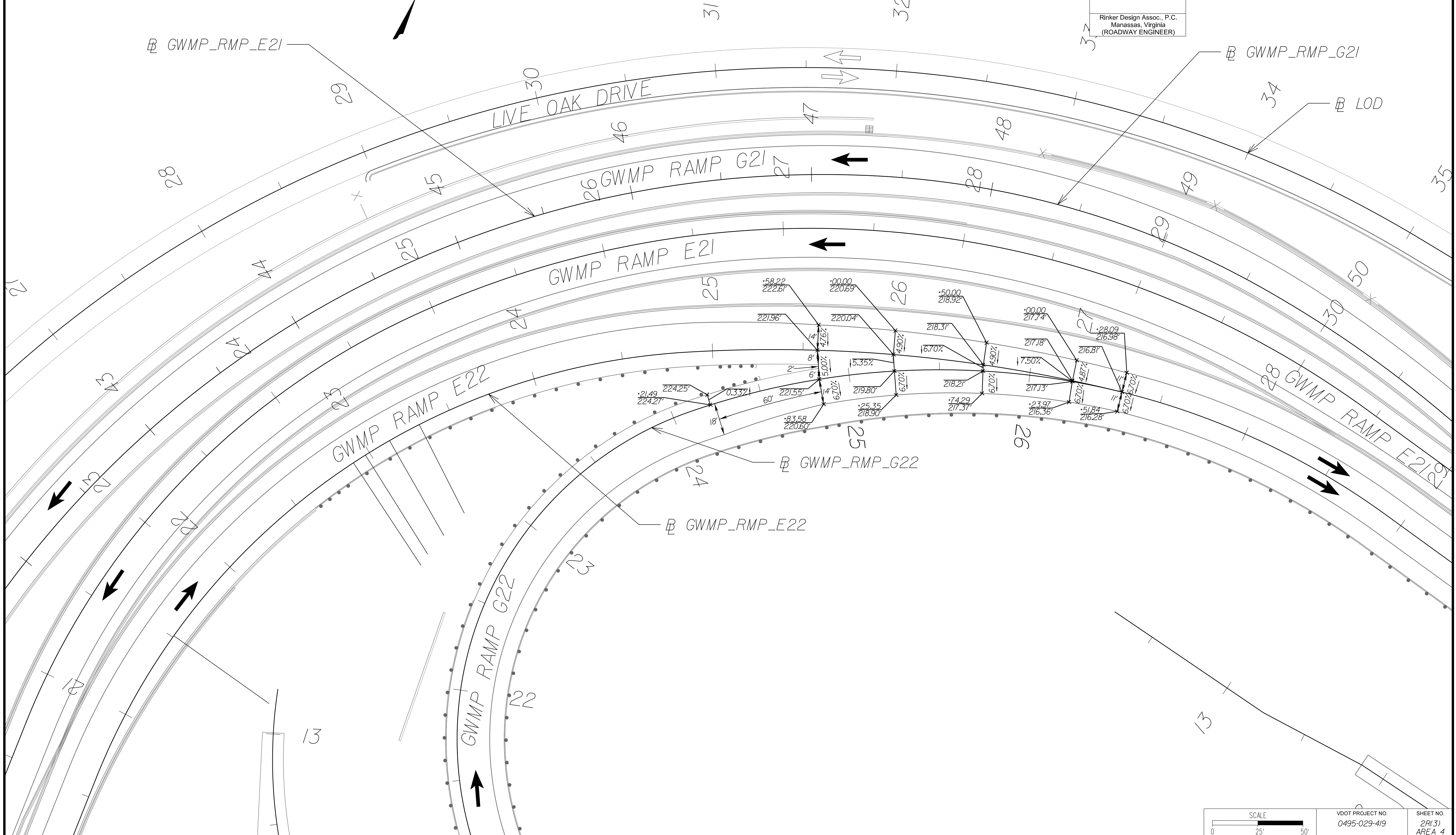
PROJECT MANAGER_VDOT - Rupal Shah, PE, (703) 259-2362
 SURVEYED BY, DATE_RDA - Nicholas Kougoullis, LS, (703) 334-0837, 12/2021
 DESIGN BY_RDA - Darrell Fischer, PE, (703) 334-0823
 SUBSURFACE UTILITY BY, DATE_Accumark - Michael Taylor, LS, (703) 635-3060, 12/2021

GORE DETAILS



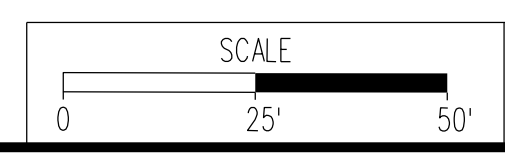
REVISED	STATE	ROUTE	STATE	VDOT PROJECT NO.	SHEET NO.
	VA.	495		0495-029-419 C501 RW201	2R(3) AREA 4

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



NOVA DISTRICT

10/26/2022



VDOT PROJECT NO. 0495-029-419	SHEET NO. 2R(3) AREA 4
----------------------------------	------------------------------

APPROVED FOR CONSTRUCTION

PROJECT MANAGER_VDOT - Rupal Shah, PE, (703) 259-2362
 SURVEYED BY, DATE_RDA - Nicholas Kougoullis, LS, (703) 334-0837, 12/2021
 DESIGN BY_RDA - Darrell Fischer, PE, (703) 334-0823
 Dewberry - Ron Jakomlitch, PE, (703) 849-0651
 SUBSURFACE UTILITY BY, DATE_Accumark - Michael Taylor, LS, (703) 635-3060, 12/2021

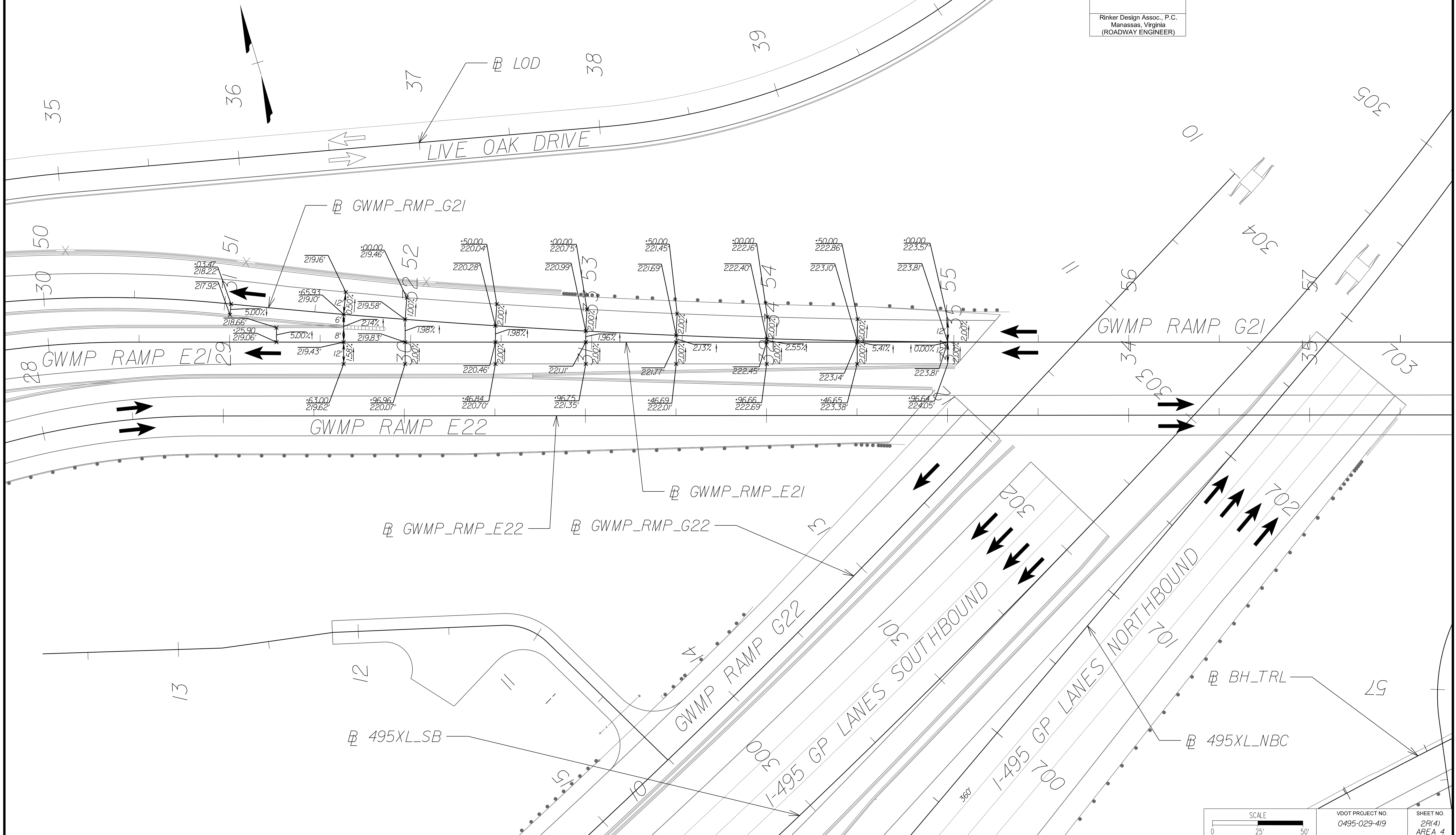
GORE DETAILS

DARELL L. FISCHER
Lic. No. 023296

Rinker Design Assoc., P.C.
Manassas, Virginia
(ROADWAY ENGINEER)

REVISED	STATE	ROUTE	STATE	VDOT PROJECT NO.	SHEET NO.
	VA.	495		0495-029-419 C501 RW201	2R(4) AREA 4

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



SCALE 0 25' 50'

VDOT PROJECT NO. 0495-029-419

SHEET NO. 2R(4) AREA 4

APPROVED FOR CONSTRUCTION

PROJECT MANAGER VDOT - Rupal Shah, P.E. (703) 259-2362
 SURVEYED BY, DATE RDA - Nicholas Kougoullis, LS (703) 334-0837, 12/2021
 DESIGN BY RDA - Darrell Fischer, P.E. (703) 334-0823
 SUBSURFACE UTILITY BY, DATE Accumark - Michael Taylor, LS (703) 635-3060, 12/2021

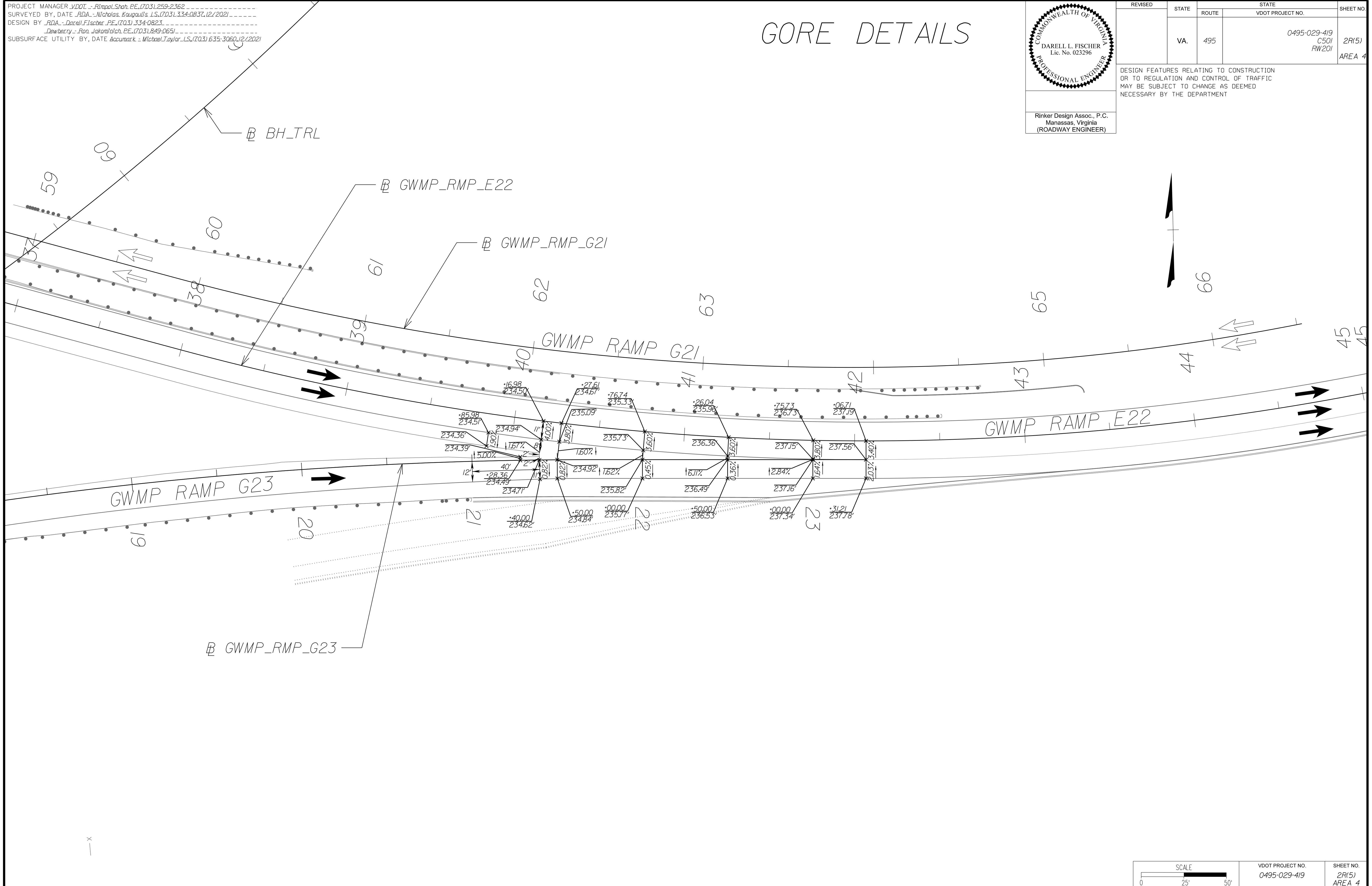
GORE DETAILS

DARELL L. FISCHER
Lic. No. 023296

Rinker Design Assoc., P.C.
Manassas, Virginia
(ROADWAY ENGINEER)

REVISED	STATE	ROUTE	STATE	VDOT PROJECT NO.	SHEET NO.
	VA.	495		0495-029-419 C501 RW201	2R(5) AREA 4

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



SCALE 0 25' 50'

VDOT PROJECT NO. 0495-029-419

SHEET NO. 2R(5) AREA 4

APPROVED FOR CONSTRUCTION

NOVA DISTRICT

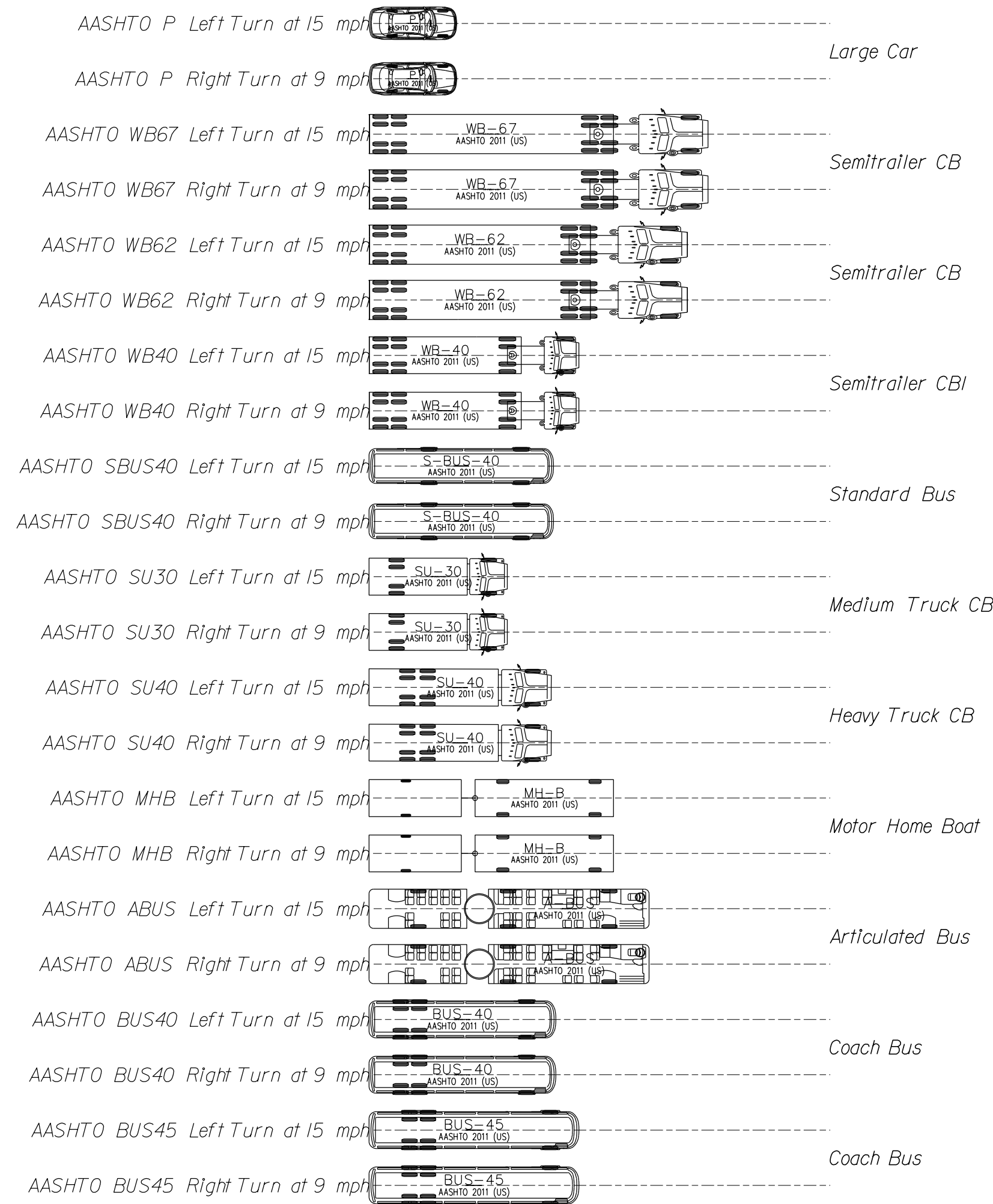
PROJECT MANAGER VDOT - Rupal Shah, PE, (703) 259-2362
 SURVEYED BY, DATE RDA - Nicholas Kougoullis, LS, (703) 334-0837, 12/2021
 DESIGN BY RDA - Darrell Fischer, PE, (703) 334-0823
 SUBSURFACE UTILITY BY, DATE Accurmark - Michael Taylor, LS, (703) 635-3060, 12/2021

AutoTURN Legend & Notes

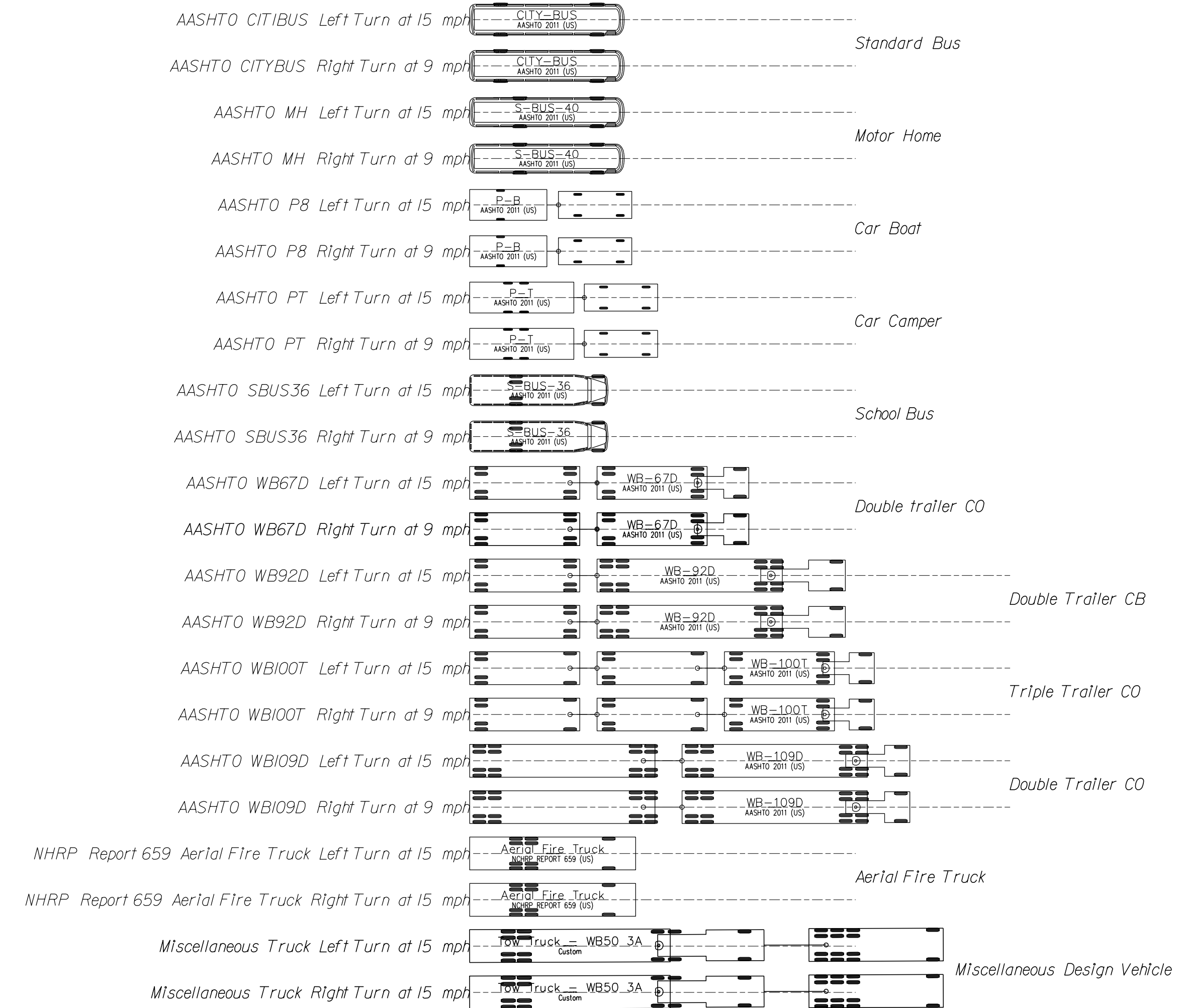
REVISED	STATE	ROUTE	STATE	VDOT PROJECT NO.	SHEET NO.
	VA	495		0495-029-419 C501 RW201	2S AREA 4

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

2018 AUTOTURN LEGEND (AASHTO 2018)



AASHTO 2018 AUTOTURN LEGEND CONT...



AutoTURN Notes and Program Information

AutoTURN is not intended to be a source for design information. The software must be used in conjunction with the most currently available design guidelines for the local jurisdiction.

Interpretation of Program Results

AutoTURN is primarily a kinematic model, meaning that it does not account for the forces resulting from vehicle inertia or road surface conditions other than dry pavement. AutoTURN produces geometrically idealized results that may be difficult to replicate exactly under actual field driving and road conditions. A successfully run AutoTURN simulation does NOT suggest that all drivers can follow the defined path in real conditions, NOR does it imply that other driveable paths between the desired start and end positions are not possible. For the above reasons, AutoTURN results should be used conservatively, with ample allowances added for clearances between vehicle tire track. The track of a vehicle is defined as the distance between the outside edges of the outermost tires on the left and right sides, or swept path. The swept path of a vehicle is the envelope swept out by the sides of the vehicle body, or any other part of the structure of the vehicle. A swept path determines whether the vehicle will make contact with vertical obstructions. Create a swept path simulation by selecting the Vehicle body envelope in Simulation Properties.envelopes. Envelopes refer to the lines traced out by the selected vehicle elements, the vehicle load, or clearances from these elements. See Swept Path and Tire Tracks, and road edges or obstructions.

Surface Conditions

All movements have been simulated using dry roadway surfaces. AutoTURN may produce inaccurate results if other conditions are simulated.

Tight Maneuvers with Standard Vehicles

The standard design vehicles provided with AutoTURN have turn limitations derived from the turning templates contained in the Design Manuals published by the corresponding jurisdictions. The primary purpose of these design manuals is to provide guidance for typical road design conditions.

Acceleration

AutoTURN does not consider vehicle acceleration or deceleration. When simulations are generated from a stopped position, or to a stopped position, the vehicle is assumed to reach its final speed, or come to a stop, in a short enough distance that it can be ignored when determining the turn radius.

NOVA DISTRICT

10/26/2022

APPROVED FOR CONSTRUCTION

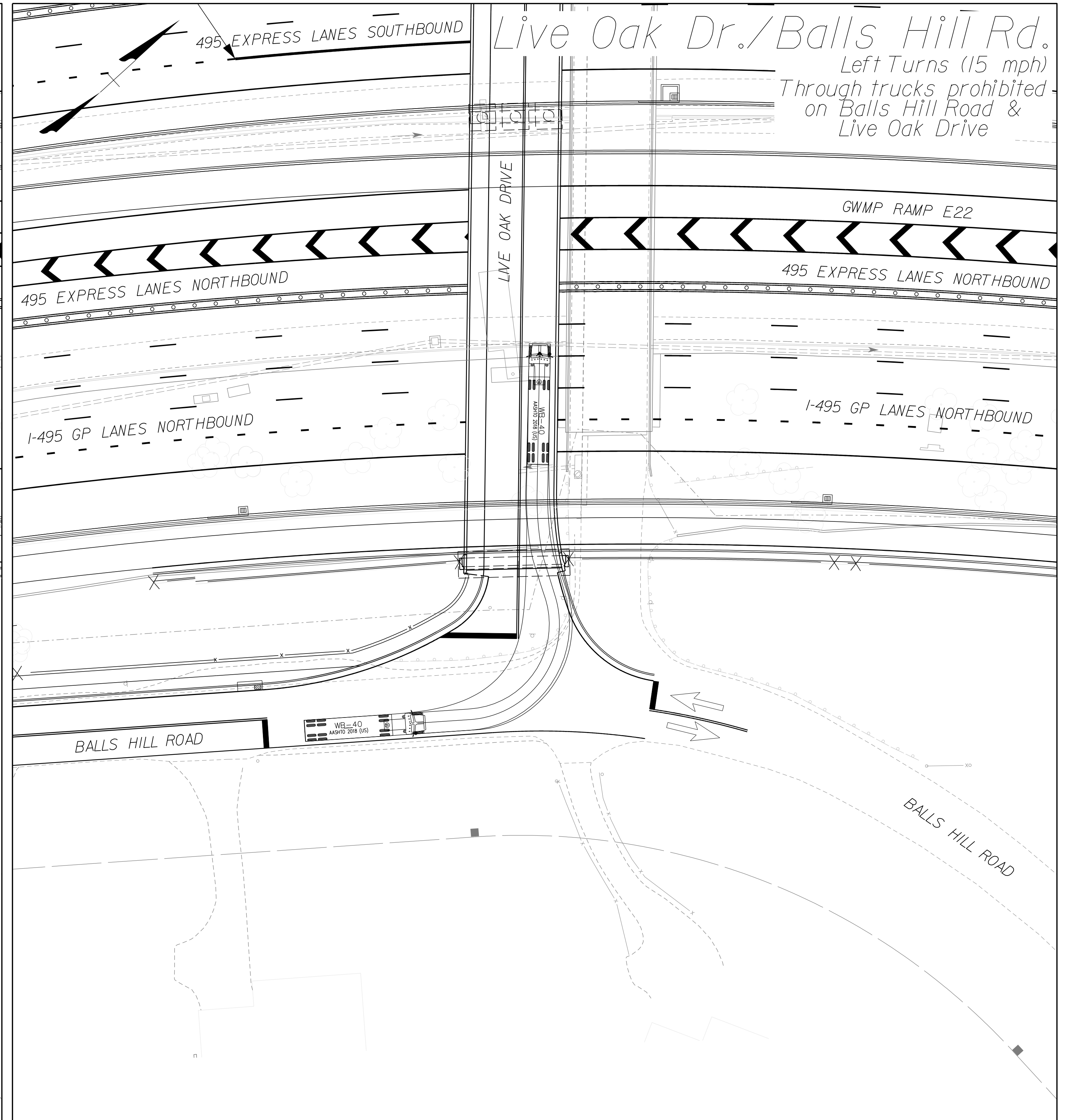
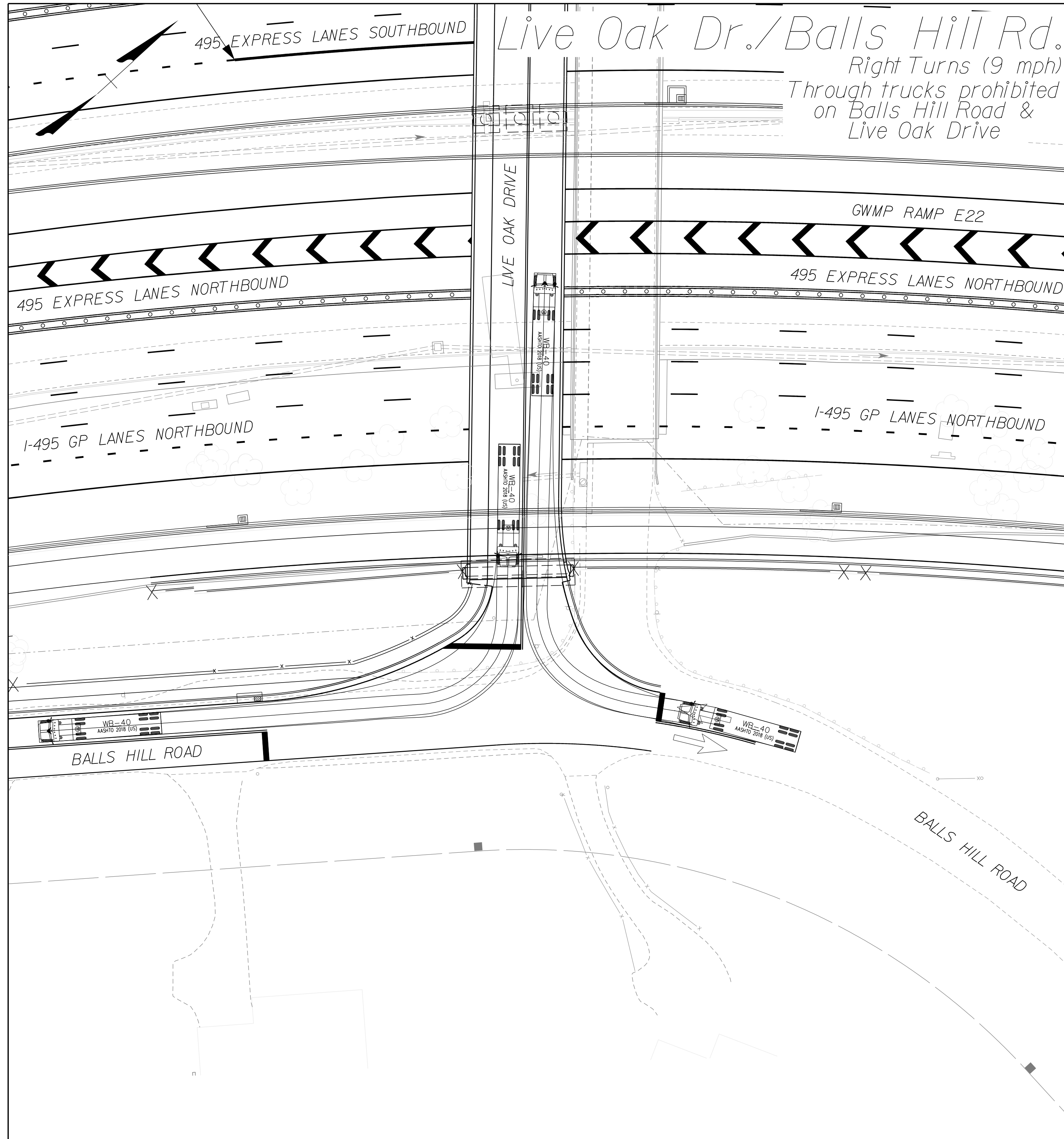
VDOT PROJECT NO. 0495-029-419	SHEET NO. 2S AREA 4
----------------------------------	---------------------------

PROJECT MANAGER VDOT - Rupal Shah, PE, (703) 259-2362
SURVEYED BY, DATE RDA - Nicholas Kougoullis, LS, (703) 334-0837, 12/2021
DESIGN BY RDA - Darrell Fischer, PE, (703) 334-0823
Dewberry - Ron Jakomlitch, PE, (703) 849-0651
SUBSURFACE UTILITY BY, DATE Accurmark - Michael Taylor, LS, (703) 635-3060, 12/2021

AutoTURN Geometric Sheet

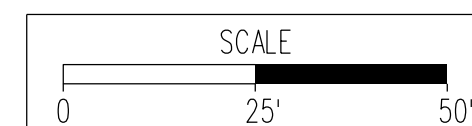
REVISED	STATE	ROUTE	STATE	VDOT PROJECT NO.	SHEET NO.
	VA.	495		0495-029-419 C501 RW201	2S(1) AREA 4

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



NOVA DISTRICT

10/26/2022



VDOT PROJECT NO.
0495-029-419

SHEET NO.
2S(1)
AREA 4

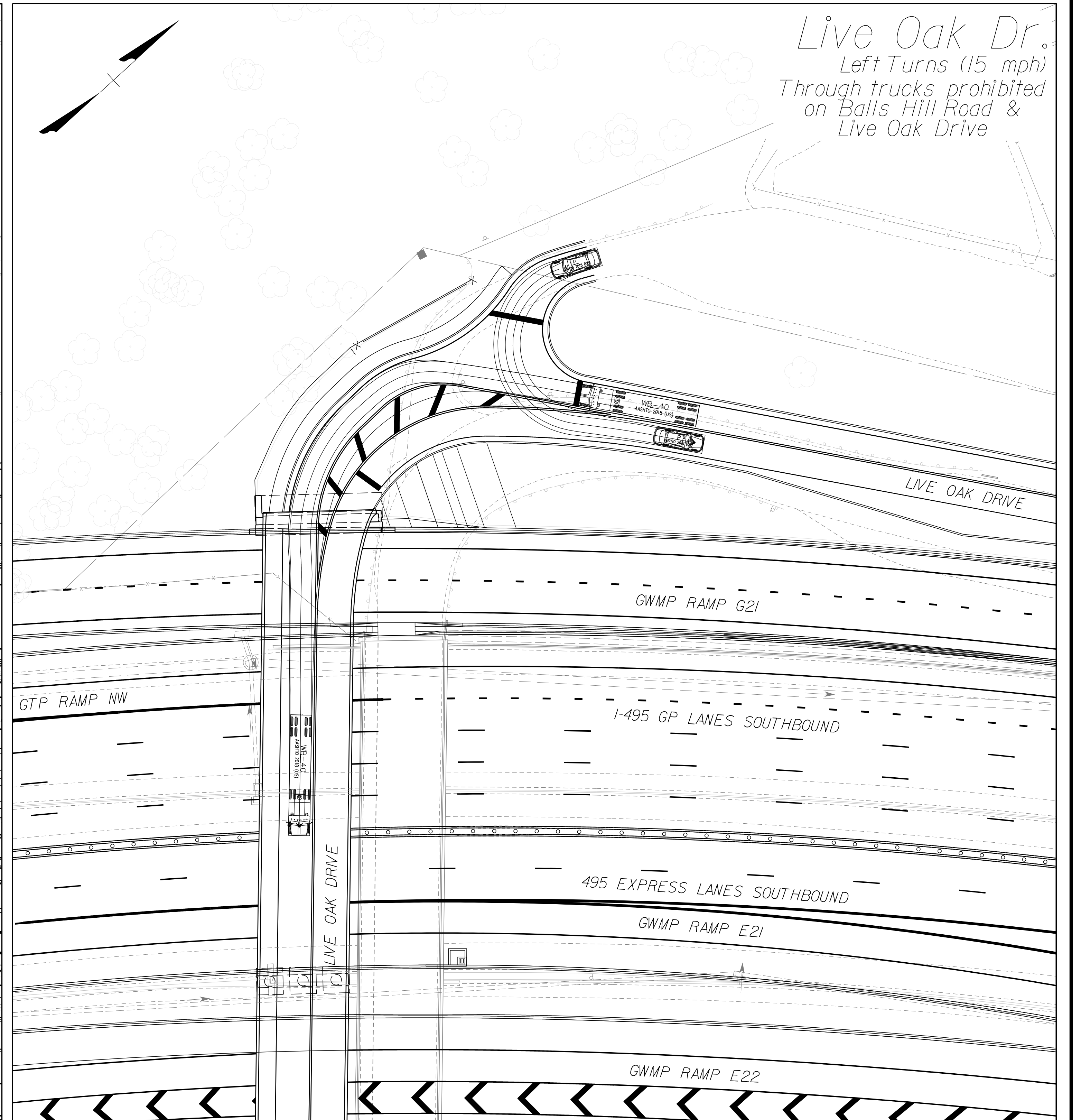
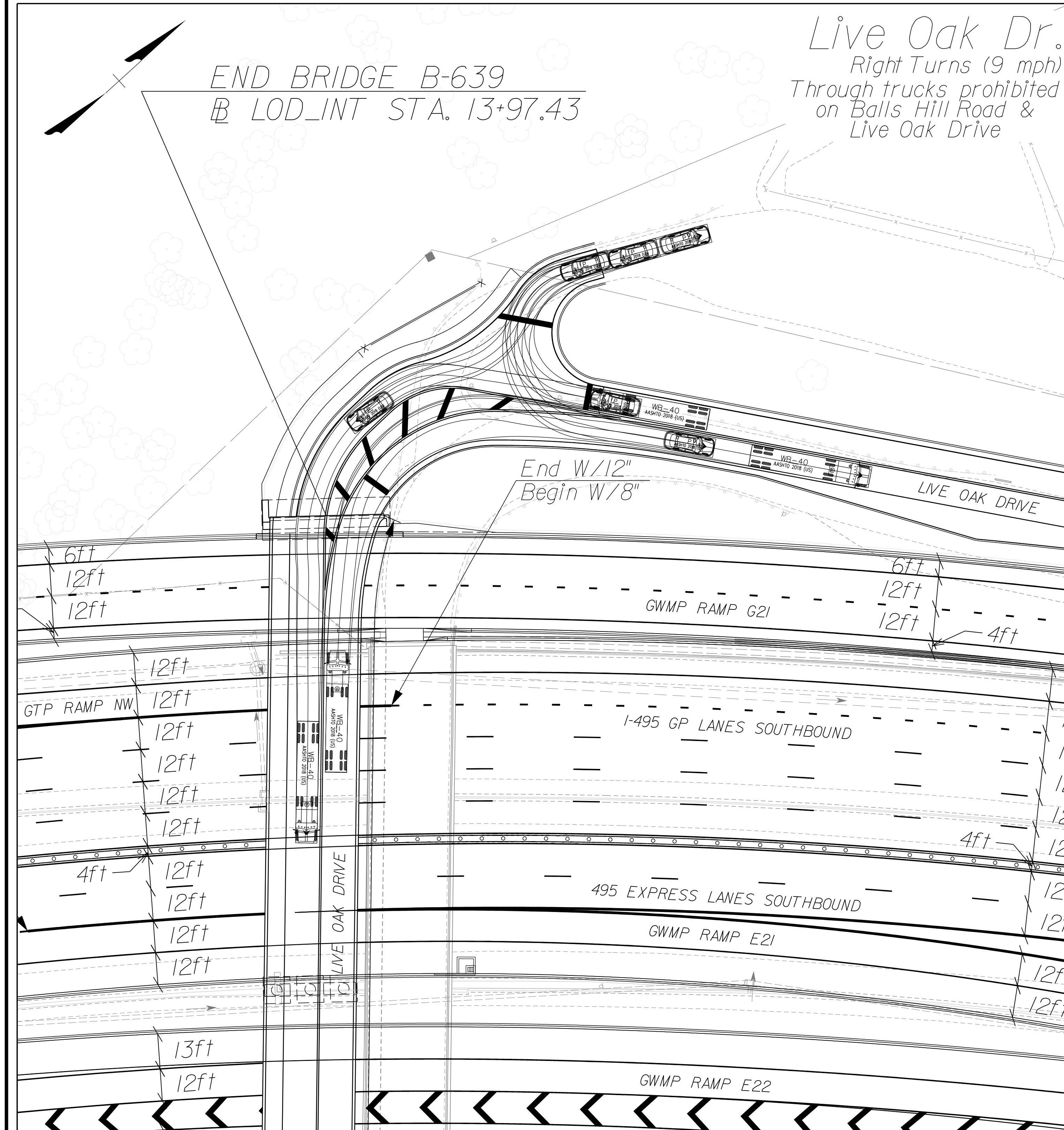
APPROVED FOR CONSTRUCTION

PROJECT MANAGER_VDOT - Rupal Shah, PE, (703) 259-2362
SURVEYED BY, DATE_RDA - Nicholas Kougoullis, LS, (703) 334-0837, 12/2021
DESIGN BY_RDA - Darrell Fischer, PE, (703) 334-0823
SUBSURFACE UTILITY BY, DATE_Accumark - Michael Taylor, LS, (703) 635-3060, 12/2021

AutoTURN Geometric Sheet

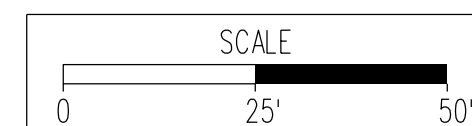
REVISED	STATE	ROUTE	STATE	VDOT PROJECT NO.	SHEET NO.
	VA	495		0495-029-419 C501 RW201	2S(2) AREA 4

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



NOVA DISTRICT

10/26/2022



VDOT PROJECT NO. 0495-029-419
SHEET NO. 2S(2)
AREA 4

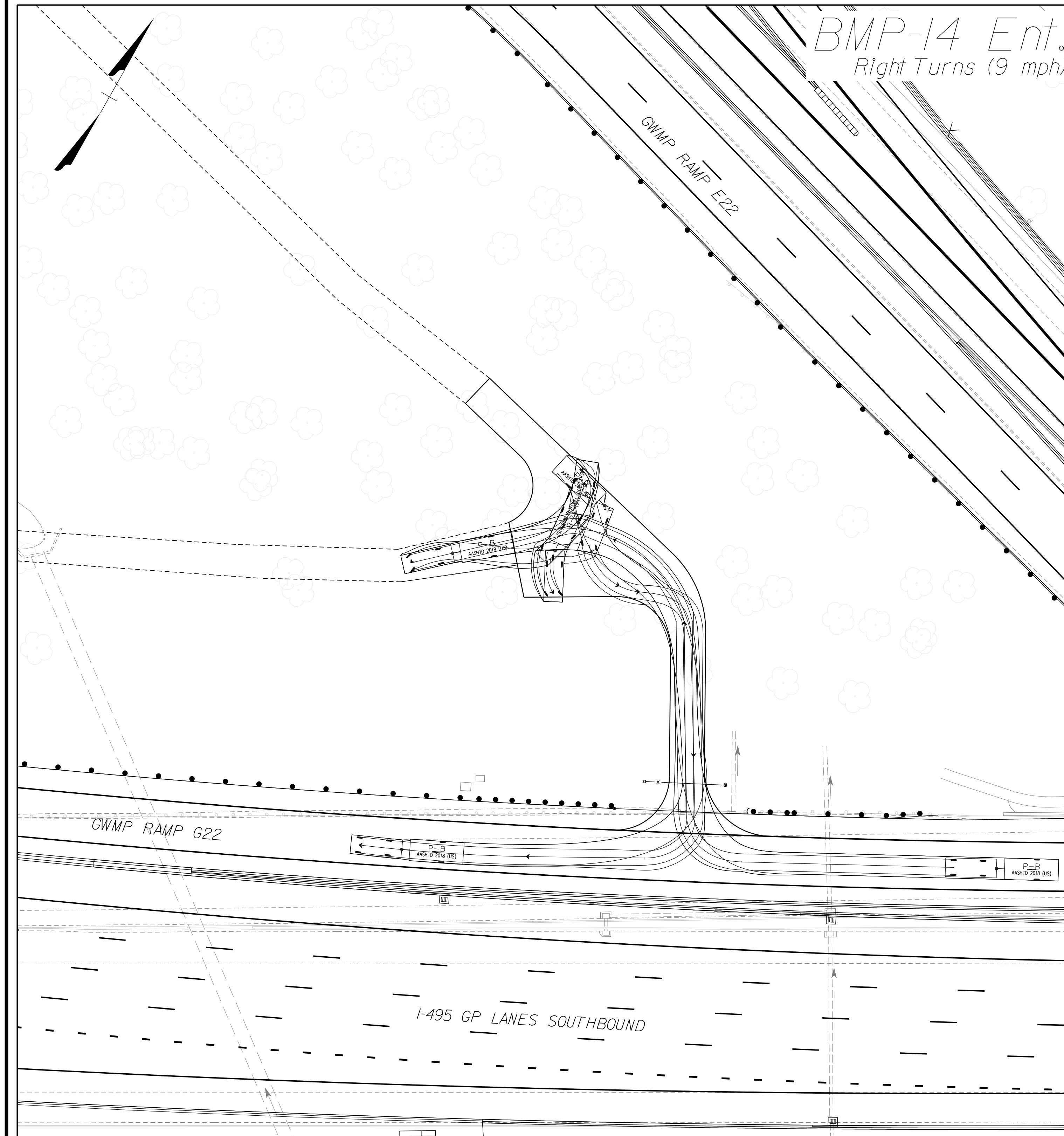
APPROVED FOR CONSTRUCTION

PROJECT MANAGER_VDOT - Rupal Shah, P.E. (703) 259-2362
SURVEYED BY, DATE_RDA - Nicholas Kougaull's, LS (703) 334-0837, 12/2021
DESIGN BY_RDA - Darrell Fischer, P.E. (703) 334-0823
Dewberry - Ron Jakomilich, P.E. (703) 849-0651
SUBSURFACE UTILITY BY, DATE_Accurmark - Michael Taylor, LS (703) 635-3060, 12/2021

AutoTURN Geometric Sheet

REVISED	STATE	ROUTE	STATE	VDOT PROJECT NO.	SHEET NO.
	VA.	495		0495-029-419 C501 RW201	2S(3) AREA 4

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



NOVA DISTRICT

10/26/2022

SCALE 0 25' 50'	VDOT PROJECT NO. 0495-029-419	SHEET NO. 2S(3) AREA 4
--------------------	----------------------------------	------------------------------

APPROVED FOR CONSTRUCTION

PROJECT MANAGER_VDOT - Rita Pal... SURVEYED BY, DATE_RDA - Nicholas... DESIGN BY_RDA - Darrell Fischer... SUBSURFACE UTILITY BY, DATE_Accumark - Michael Taylor...

Design Legend

Table with columns: REVISED, STATE, ROUTE, STATE, VDOT PROJECT NO., SHEET NO. Values: VA, 495, 0495-029-419 C501 RW201, 2Z AREA 4

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

Contour Legend

- 30 Proposed Major Contour (5')
Proposed Minor Contour (1')
Existing Major Contour (5')
Existing Minor Contour (1')

Environmental Legend

- W.O.U.S. Waters of the US Including Wetlands
WL Wetlands

Roadway Legend

- 1 Denotes S'd.MS-1 Req'd.
2 Denotes S'd.MS-1A Req'd.
3 Denotes S'd.MS-2 Req'd.
4 Denotes S'd.CG-6 Req'd.
5 Denotes S'd.Radial CG-6 Req'd.
6 Denotes S'd.CG-2 Req'd.
7 Denotes S'd.Radial CG-2 Req'd.
8 Denotes S'd.CG-3 Req'd.
9 Denotes S'd.Radial CG-3 Req'd.
10 Denotes S'd.CG-7 Req'd.
11 Denotes S'd.Radial CG-7 Req'd.
12 Denotes S'd.CG-12, Type A Req'd.
13 Denotes S'd.CG-12, Type B Req'd.
14 Denotes S'd.CG-12, Type C Req'd.
15 Denotes Tie to Existing Curb & Gutter
16 Denotes Full Depth Saw Cut Req'd.
17 Denotes 5' Sidewalk
18 Denotes 10' Shared Use Path
19 Denotes S'd.FE-CL Req'd.
20 Denotes S'd.HR-1, Type 2 Req'd.
21 Denotes S'd.HR-1, Type 3 Req'd.
22 Denotes Curb Warping Required
23 Denotes S'd.GR-MGS1 Req'd.
24 Denotes S'd.GR-MGS1A Req'd.
25 Denotes S'd.GR-MGS2 Req'd.
26 Denotes S'd.GR-MGS3 Req'd.
27 Denotes S'd.GR-MGS4 Req'd.
28 Denotes S'd.GR-FOA-2, Type I Req'd.
29 Denotes S'd.GR-FOA-2, Type II Req'd.
30 Denotes S'd.Impact Attenuator TL-2 Req'd.
31 Denotes S'd.Impact Attenuator TL-3 Req'd.
32 Denotes S'd.MB-7D, Conc.Median Barrier Req'd.
33 Denotes S'd.MB-7E, Conc.Median Barrier Req'd.
34 Denotes Mod.MB-7E, Conc.Median Barrier Req'd.
35 Denotes S'd.MB-7F, Conc.Median Barrier Req'd.
36 Not Used
37 Denotes S'd.MB-8A, Type I, Conc.Median Barrier Req'd.
38 Denotes S'd.MB-8A, Type III, Conc.Median Barrier Req'd.
39 Denotes S'd.MC-3B Req'd.
40 Denotes S'd.FE-WI Req'd.
41 Denotes S'd.MB-8A, Type II, Conc.Median Barrier Req'd.
42 Denotes S'd.GR-FOA-5
43 Denotes S'd.BPPS-1A Req'd.
44 Denotes S'd.BPPS-3A Req'd.
45 Denotes S'd.CG-12, Type R11 Req'd.
46 Denotes S'd.CG-12, Type R12 Req'd.
47 Denotes S'd.CG-12, Type M1 Req'd.
48 Denotes Edge of Pavement
49 Denotes Mod.MB-8A, Conc.Median Barrier Req'd.
50 Denotes S'd.BPB-4 Parapet with Moment Slab Req'd.
51 Denotes Removal of Existing RW & L/A Fence
52 Denotes S'd.GR-FOA-1, Type I Req'd.
53 Denotes S'd.GR-FOA-1, Type II Req'd.
54 Denotes 10' Gravel Section for Future Shared Use Path
55 Denotes Tall Wall/Barrier Blister Req'd.
56 Denotes Removal of Existing Guardrail
57 Denotes Removal of Existing Barrier
58 Denotes Concrete Gravel Dam
59 Denotes S'd.GR-FOA-4, Type II Req'd.
60 Denotes S'd.MB-3 Req'd.
61 Denotes S'd.GR-II Req'd.
62 Denotes S'd.MB-12B, Conc.Median Barrier Req'd.
63 Denotes S'd.GR-10, Ty. II Req'd.
64 Denotes S'd.MB-12C, Conc.Median Barrier Req'd.
C Denotes Construction Limits in Cuts
F Denotes Construction Limits in Fills
Denotes S'd.GR-MGS3 Req'd.
Denotes Future Site Plan Design
LOD Denotes Limits of Disturbance

Pavement Legend

- 4" Mill & Resurface
1.5" Side Roads/Connections or 2" Mill & Resurface (Mainline)
Full Depth Pavement
Demolition of Pavement
Existing PCC Pavement
Limits of Obscuring of Pave./Dwy.
Concrete Sidewalk
Detectable Warning Surface

Drainage Legend

- UD-1 Req'd.
UD-2 Req'd.
UD-3 Req'd.
UD-4 Req'd.
CD-1 Req'd.
CD-2 Req'd.
Pipe/Structure to be Removed
Clean Pipe/Structure.
Plug and Abandon
S'd.PG-2A Req'd.
S'd.EW-12 Req'd.
UD-4 Mod.Req'd.
Connect to Pipe/Structure
ADA Compliant Structure Top Req'd.
Scupper Req'd. (See Bridge Plans For Details)
UD Outlet Pipe
S'd.PG-4 Req'd.
Repair Method B (Flexible Pipe Liner) Category C (Repair Bands) Req'd.
Repair Method B (Flexible Pipe Liner) Categories A, B, C, or D Req'd.
Repair Method B (Flexible Pipe Liner) Categories A, B, or D Req'd.
Repair Method B (Flexible Pipe Liner) Categories A or B Req'd.
Repurpose Pipe/Structure

R/W Legend

- Prop.Temp.Constr.Ease.
Prop.Temp.Constr.Ease. for Entrances & Parking Lots
Prop.Perm.Drainage Ease.
Prop.Perm.Drainage Ease.
Prop.Perm.Drainage Slope Ease.
Prop.Dom.VZNV, VDOT Utility Ease.
Prop.Perm.Drainage Wall Ease.
Prop.Perm.Slope Ease.
Prop.Perm.Wall Ease.
Prop.VDOT Utility Ease.
Prop.Dom.Energy Utility Ease.
Prop.Dom.VDOT Utility Ease.

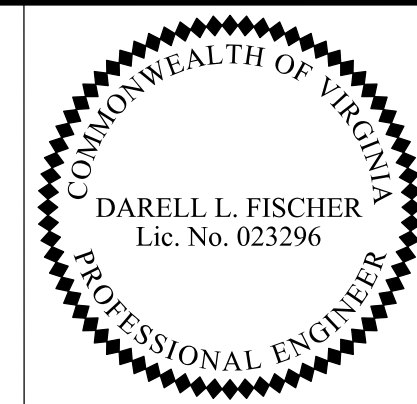
- Proposed Right of Way (R/W)
Proposed Right of way Pluses and Offsets
Proposed Permanent Ease.
Proposed Perm.Ease.Pluses and Offsets
Prop.Prop.Temp.Constr.Ease.
Prop.Temp.Ease.Pluses and Offsets
Prop.Communication Ease.
Prop.Communication Ease.Pluses and Offsets
Prop.Sewer Ease.
Prop.Sewer Easement Pluses and Offsets
Prop.Water Ease.
Prop.Water Ease.Pluses and Offsets
Prop.Gas Ease.
Prop.Gas Ease.Pluses and Offsets
Prop.Demolition Numbers
022 Prop.Parcel Numbers
Prop.Limited Access (L/A) Only
Prop.Limited Access Only Pluses and Offsets
Prop.Temp.Ease.for Entrances and Parking Lots
Prop.Temp.Ease.for Entrances Pluses and Offsets
Prop.Perm.SWM Pond Ease.
Prop.Perm.SWM Pond Ease.Pluses and Offsets
Prop.Perm.Sight Distance Ease.
Prop.Perm.Sight Distance Ease.Pluses and Offsets
Prop.Perm.Roadway Lighting Ease.
Prop.Perm.Roadway Lighting Ease.Pluses and Offsets
Prop.Perm.Traffic Signal Ease.
Prop.Perm.Traffic Signal Ease.Pluses and Offsets
Prop.Perm.Signage Ease.
Prop.Perm.Signage Ease.Pluses and Offsets
Prop.Perm.Perpetual Ease.
Prop.Perm.Perpetual Ease.Pluses and Offsets

NOVA DISTRICT

10/26/2022

APPROVED FOR CONSTRUCTION

PROJECT MANAGER VDOT - Rinaldi, S.H., PE, (703) 259-2362
 SURVEYED BY, DATE RDA - Nicholas, K. (703) 334-0837, 12/2021
 DESIGN BY RDA - Dorell, Fischer, PE, (703) 334-0823
 SUBSURFACE UTILITY BY, DATE Accumark - Michael, Taylor, LS, (703) 635-3060, 12/2021



Rinker Design Assoc., P.C.
 Manassas, Virginia
 (ROADWAY ENGINEER)

REVISED	STATE	ROUTE	STATE	VDOT PROJECT NO.	SHEET NO.
	VA.	495		0495-029-419	15

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

Roadway Plan

UTILITY OWNERS

Fairfax Water Authority
 Robert Cotton
 8570 Executive Park Ave., Fairfax, VA.
 703-289-6310

County of Fairfax - Sewer
 Asghar Parirou
 12000 Government Center Pkwy., Fairfax, VA.
 703-324-5840

Dominion Virginia Power
 Tyler Holt
 701 E. Cary St., Richmond, VA.
 571-203-5329

Cox Communications
 Jeff Ascortio
 703-480-7812

Verizon
 Antonio Ashby
 9401 Peabody St., Manassas, VA.
 antonio.a.ashby@verizon.com

Crown Castle
 1220 Augusta Dr., Suite 600
 Houston, TX
 1-855-93-FIBER

MCI
 Gene Muller
 2400 N. Glenville Dr., Richardson, TX.
 703-801-9532

Lumen
 Joe Bolton
 Tulsa, OK.
 571-328-1116

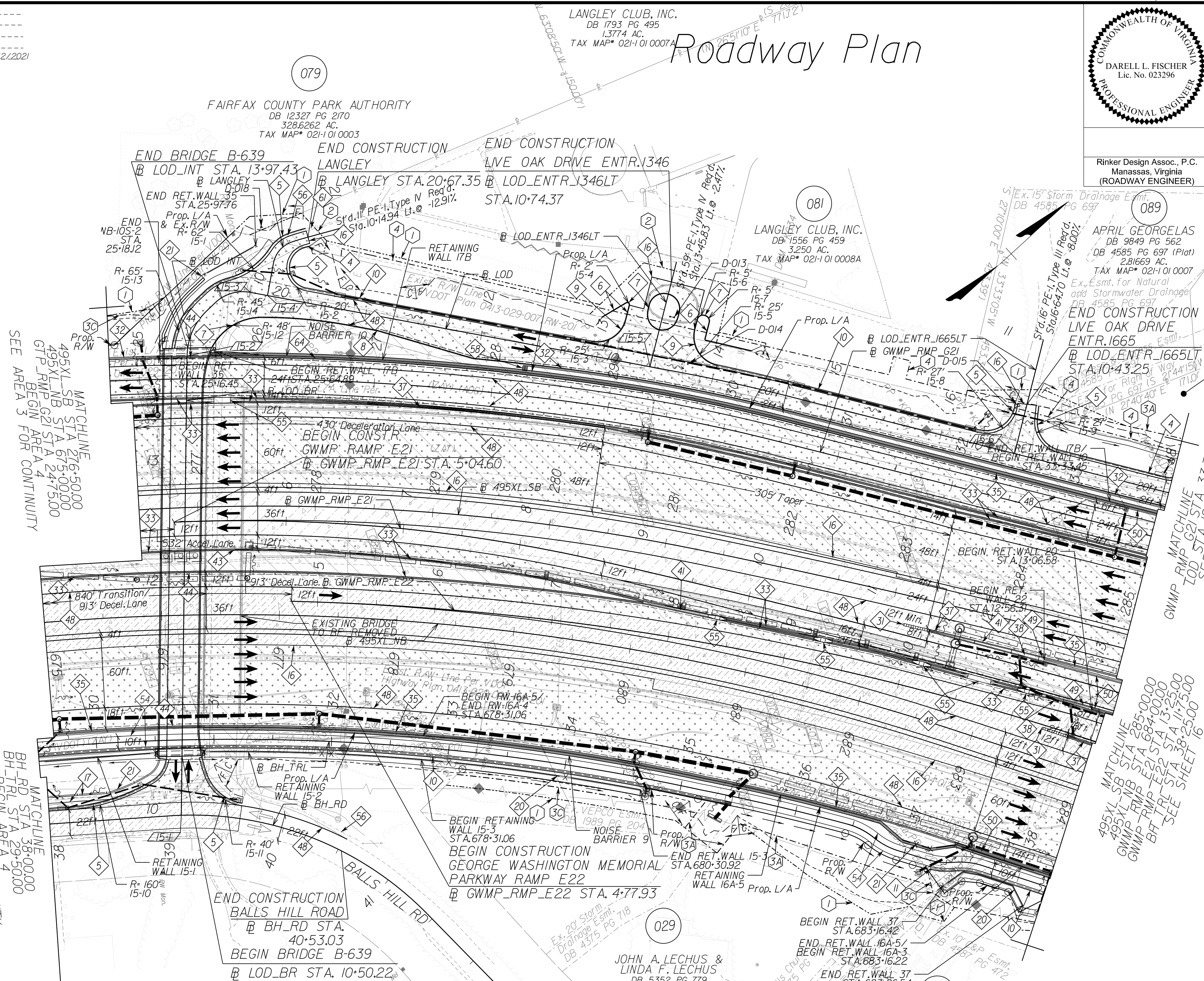
Comcast
 Mark Slerbrch
 4391 Dale Blvd., Woodbridge, VA.
 540-553-1415

AOC Connect
 14030 Thunderbold Place, Chantilly, VA.
 703-345-5757

Zayo Communications
 Brad Leatherman
 13861 Sunrise Valley Dr., Suite 450
 Herndon, VA.
 703-928-0649

SummitIG
 Steve Ragland
 22375 Broadrick Dr., Suite 165
 Dulles, VA.
 804-317-4483

Washington Gas
 Mark Tajnai
 6800 Versar Center, Suite 430
 703-750-5667



SEE AREA 3 FOR CONTINUITY

SEE AREA 3 FOR CONTINUITY

NOVA DISTRICT

10/26/2022

- 15-1 P.O.I. - 39+12.09 Balls Hill Rd. C.B.L.
 P.O.T. - 10+00.00 Live Oak Dr. Bridge C.B.L.
 Δ = 87°23'09" Rt.
- 15-2 P.O.I. - 13+90.51 Live Oak Dr. Bridge C.B.L.
 P.O.T. - 13+90.51 Live Oak Dr. Int. C.B.L.
 Δ = 180°00'00" Rt.
- 15-3 P.O.I. - 14+75.76 Live Oak Dr. Int. C.B.L.
 P.O.T. - 10+00.00 Live Oak Dr. C.B.L.
 Δ = 180°00'00" Rt.
- 15-4 P.O.I. - 10+14.94 Live Oak Dr. C.B.L.
 P.O.T. - 20+00.00 Langley Entrance C.B.L.
 Δ = 90°01'43" Rt.
- 15-5 P.O.I. - 13+45.83 Live Oak Dr. C.B.L.
 P.O.T. - 10+00.00 Entrance C.B.L.
 Δ = 86°18'56" Rt.
- 15-6 P.O.I. - 16+64.70 Live Oak Dr. C.B.L.
 P.O.T. - 10+00.00 Entrance C.B.L.
 Δ = 90°00'00" Rt.

REFERENCES

(PROFILES, DETAIL & DRAINAGE DESCRIPTION SHEETS, ETC.)

- Survey Control Data Sheets 1F thru 1F(4)
- Existing Drainage Descriptions 1F(5) thru 1F(9)
- Construction Geometrics 1G thru 1G(4)
- Erosion Controls PH1 & PH2 1N(1), 1N(15)
- Typical Sections 2A thru 2B(13)
- Ditch Lining Typicals 2J
- Drainage Descriptions 2K thru 2K(16)
- Design Legend 2Z
- Drainage Plan Sheet 15
- Right of Way Plan Sheet 15RW
- Alignment Data Sheet 15(1)
- Profile 1-495 NB 15A
- Profile 1-495 SB 15B
- Profile Connections 15C thru 15K

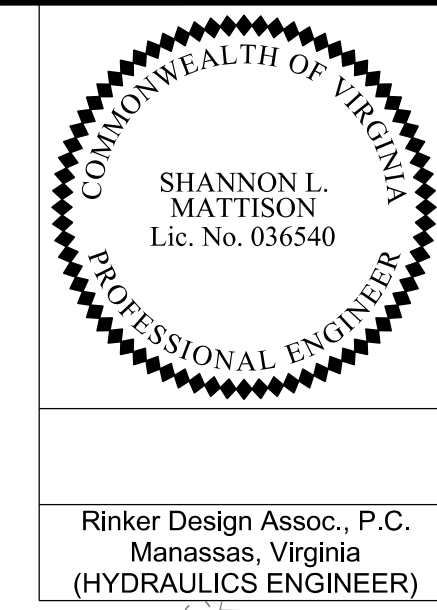
SCALE	VDOT PROJECT NO.	SHEET NO.
0 50' 100'	0495-029-419	15

NOTE: SEE SHEET 2Z FOR RIGHT-OF-WAY AND DESIGN LEGENDS.

APPROVED FOR CONSTRUCTION

PROJECT MANAGER VDOT - Rupal Shah, PE, (703) 259-2362
SURVEYED BY, DATE RDA - Nicholas Kaugaulis, LS, (703) 334-0837, 12/2021
DESIGN BY RDA - Darrell Fischer, PE, (703) 334-0823
SUBSURFACE UTILITY BY, DATE Accumark - Michael Taylor, LS, (703) 635-3060, 12/2021

Drainage Plan



REVISED	STATE	ROUTE	STATE	VDOT PROJECT NO.	SHEET NO.
	VA	495		0495-029-419 PE101 CS01 RW201	15DRN AREA 4

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

UTILITY OWNERS

Fairfax Water Authority
Robert Cotton
8570 Executive Park Ave., Fairfax, VA
703-289-6310

County of Fairfax - Sewer
Asghar Parirou
12000 Government Center Pkwy., Fairfax, VA
703-324-5840

Dominion Virginia Power
Tyler Holt
701 E. Cary St., Richmond, VA
571-203-5329

Cox Communications
Jeff Ascortio
703-480-7812

Verizon
Antonio Ashby
9401 Peabody St., Manassas, VA
antonio.a.ashby@verizon.com

Crown Castle
1220 Augusta Dr., Suite 600
Houston, TX
1-855-93-FIBER

MCI
Gene Muller
2400 N. Glenville Dr., Richardson, TX
703-801-9532

Lumen
Joe Bolton
Tulsa, OK
571-328-1116

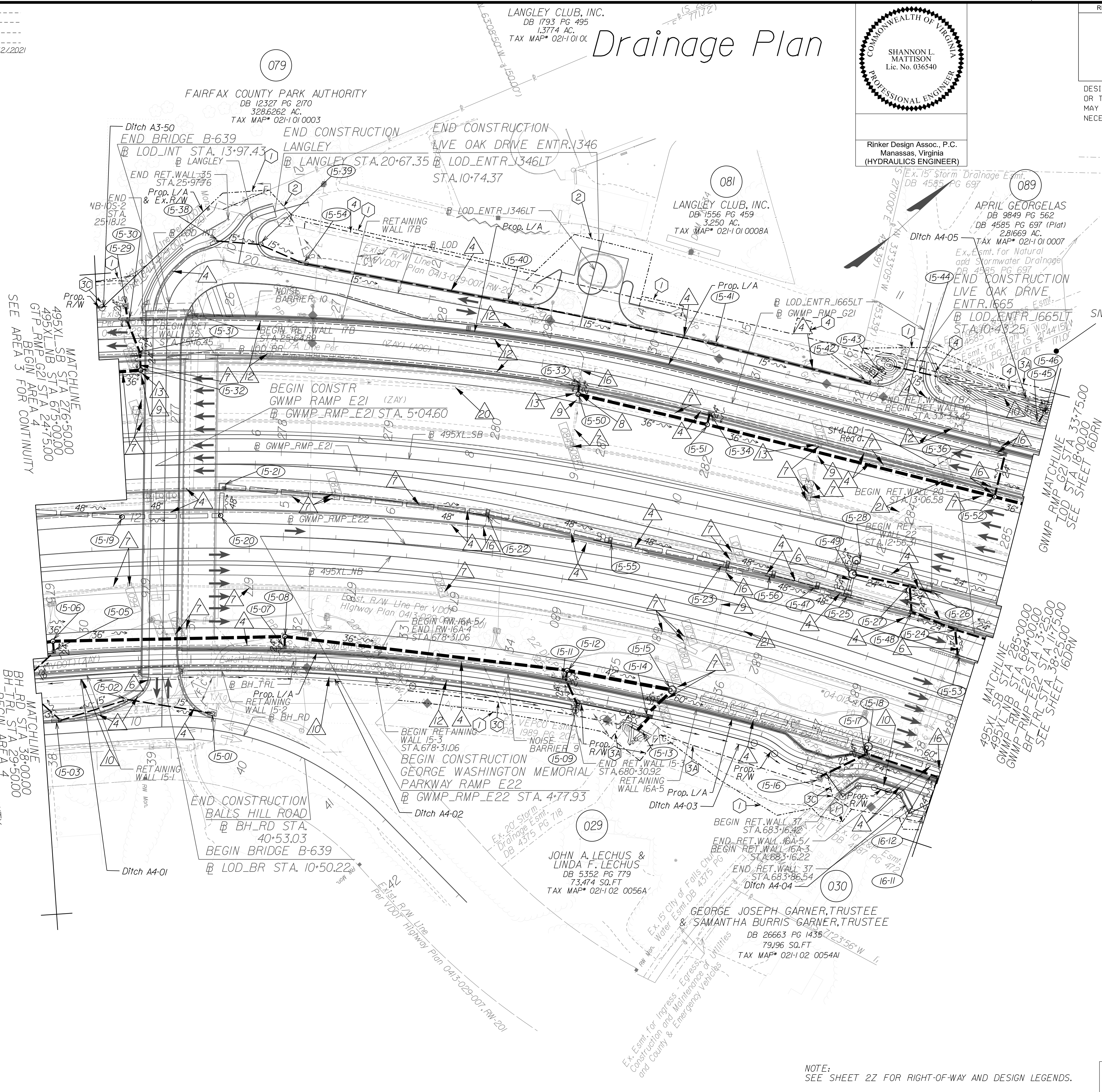
Comcast
Mark Slebrch
4391 Dale Blvd., Woodbridge, VA
540-553-1415

AOC Connect
14030 Thunderbold Place, Chantilly, VA
703-345-5757

Zayo Communications
Brad Leatherman
13861 Sunrise Valley Dr., Suite 450
Herndon, VA
703-928-0649

SummitIG
Steve Ragland
22375 Broadrick Dr., Suite 165
Dulles, VA
804-317-4483

Washington Gas
Mark Tajnai
6800 Versar Center, Suite 430
703-750-5667



SEE AREA 3 FOR CONTINUITY

SEE AREA 3 FOR CONTINUITY

SEE SHEET 16DRN

SEE SHEET 16DRN

REFERENCES (PROFILES, DETAIL & DRAINAGE DESCRIPTION SHEETS, ETC.)

Survey Control Data Sheets	1F thru 1F(4)
Existing Drainage Descriptions	1F(5) thru 1F(9)
Construction Geometrics	1G thru 1G(4)
Erosion Controls Ph1 & Ph2	1V(1), 1V(1.5)
Typical Sections	2A thru 2B(13)
Ditch Lining Typical	2J
Drainage Descriptions	2K thru 2K(6)
Design Legend	2Z
Roadway Plan Sheet	15
Right of Way Plan Sheet	15RW
Alignment Data Sheet	15(1)
Profile 1-495 NB	15A
Profile 1-495 SB	15B
Profile Entrances/Connections	15C thru 15K

SCALE	VDOT PROJECT NO.	SHEET NO.
0 50' 100'	0495-029-419	15DRN AREA 4

NOTE: SEE SHEET 2Z FOR RIGHT-OF-WAY AND DESIGN LEGENDS.

APPROVED FOR CONSTRUCTION

NOVA DISTRICT

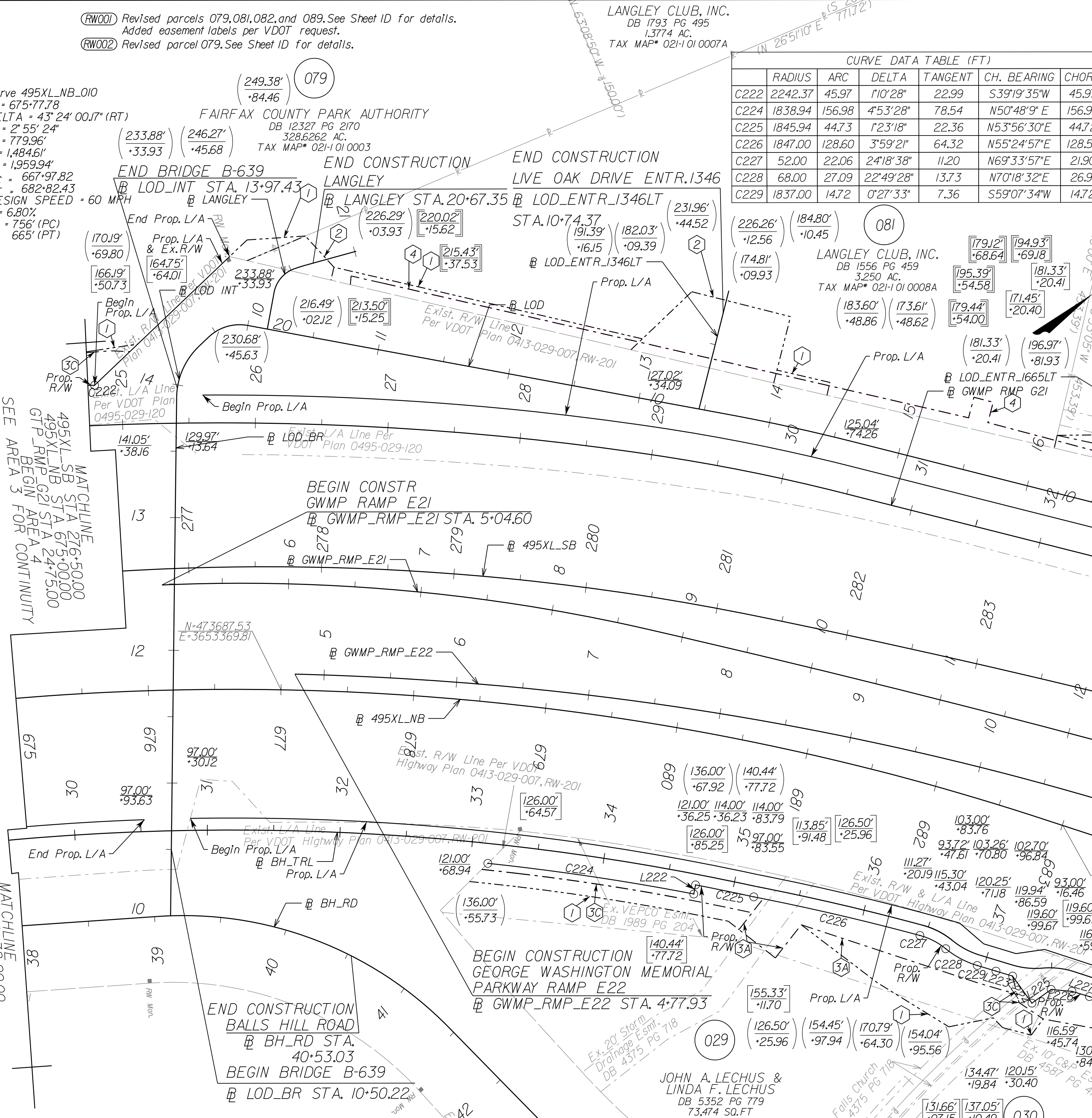
PROJECT MANAGER: VDOT - Bimbal, Stab, PE, (703) 259-2362
 SURVEYED BY: DATE: BDA - Nicholas, Kougnoullis, LS, (703) 334-0837, 1/2019
 DESIGN BY: BDA - Darrell, Etscher, PE, (703) 334-0823
 Deuterberg, -Rao, Jaskamlosh, PE, (703) 849-0651
 SUBSURFACE UTILITY: BY, DATE: Accumark - Michael, Taylor, LS, (703) 635-3060, 12/2021

(RW001) Revised parcels 079, 081, 082, and 089. See Sheet ID for details.
 Added easement labels per VDOT request.
 (RW002) Revised parcel 079. See Sheet ID for details.

Curve 495XL_SB_010
 PI = 275+58.77
 DELTA = 36° 54' 30.63" (RT)
 D = 3' 06" 20"
 T = 615.69'
 L = 1188.50'
 R = 1845.00'
 PC = 269+43.08
 PCC = 281+31.59
 DESIGN SPEED = 60 MPH
 e = 7.00%
 Lr = 685'

Curve 495XL_SB_011
 PI = 287+72.80
 DELTA = 10° 02' 52.58" (RT)
 D = 0' 47" 08"
 T = 641.22'
 L = 1279.15'
 R = 7294.00'
 PC = 281+31.59
 PT = 294+10.73
 DESIGN SPEED = 60 MPH
 e = 2.30%
 Lr = 195' (PT)

Curve 495XL_NB_010
 PI = 675+77.78
 DELTA = 43° 24' 00.17" (RT)
 D = 2' 55" 24"
 T = 779.96'
 L = 1484.61'
 R = 1959.94'
 PC = 667+97.82
 PCC = 682+82.43
 DESIGN SPEED = 60 MPH
 e = 6.80%
 Lr = 756' (PC)
 665' (PT)

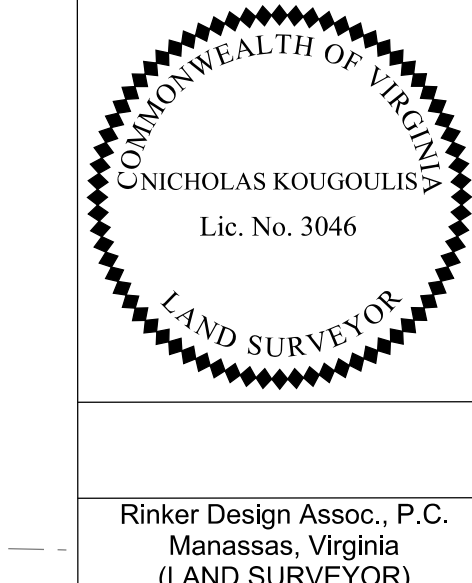


CURVE DATA TABLE (FT)

CURVE	RADIUS	ARC	DELTA	TANGENT	CH. BEARING	CHORD
C222	2242.37	45.97	110°28'	22.99	S39°19'35"W	45.97
C224	1838.94	156.98	4°53'28"	78.54	N50°48'9"E	156.94
C225	1845.94	44.73	1°23'18"	22.36	N53°56'30"E	44.72
C226	1847.00	128.60	3°59'21"	64.32	N55°24'57"E	128.57
C227	52.00	22.06	2°41'38"	11.20	N69°33'57"E	21.90
C228	68.00	27.09	2°24'28"	13.73	N70°18'32"E	26.91
C229	1837.00	14.72	0°27'33"	7.36	S59°07'34"W	14.72

LINE DATA TABLE (FT)

LINE	BEARING	DISTANCE
L222	N36°54'28"W	7.00'
L223	N58°54'45"E	13.09'
L224	S8°30'18"E	25.07'
L225	S06°50'42"W	17.79'
L226	N47°21'37"E	15.76'
L227	N59°08'19"E	13.88'
L228	N60°39'31"E	11.69'
L229	S74°31'26"E	19.53'
L230	N15°28'34"E	24.95'



Rinker Design Assoc., P.C.
 Manassas, Virginia
 (LAND SURVEYOR)

- GENERAL NOTES:
1. SAID PROPERTY LINES ARE BEST FIT BASED ON COMPILED DATA AND DO NOT REPRESENT A BOUNDARY SURVEY.
 2. ALL AREAS SHOWN ARE APPROXIMATE ONLY.
 3. THIS PLAN SHEET WAS PREPARED WITHOUT THE BENEFIT OF A TITLE REPORT AND MAY NOT SHOW ALL EASEMENTS WHICH MAY AFFECT THE PROPERTY HEREON.
 4. NONE OF THE PROPERTY'S PHYSICAL IMPROVEMENTS ARE SHOWN HEREON.
 5. NO DESIGNATION OR LOCATION OF SUBSURFACE UTILITIES WAS PERFORMED DURING PREPARATION OF THIS PLAN SHEET.
 6. NO CEMETERY SITES WERE OBSERVED ON THE SUBJECT PROPERTY. THIS DOES NOT PRECLUDE THEIR EXISTENCE.
 7. THE SURVEY DATUM IS BASED ON THE TITLED VDOT PROJECT.
 8. MONUMENTATION TO BE SET UPON COMPLETION OF CONSTRUCTION.

LEGEND

- IPF/IRF 00.00' PROPOSED RIGHT-OF-WAY / LIMITED ACCESS
- EXISTING PROPERTY LINE 12.34 PROPOSED TEMPORARY EASEMENT
- EXISTING R/W LINE 12.34 PROPOSED PERMANENT EASEMENT
- CONSTRUCTION BASELINE 12.34 PROPOSED PERMANENT UTILITY EASEMENT
- EXISTING PROPERTY MARKER 00.00' PROPOSED PERMANENT UTILITY EASEMENT
- SET RM-2 (SEE NOTES) N=515309.05 VDOT PROJECT E=3361898.21 COORDINATES
- 1 DENOTES PROP. TEMP. CONSTR. EASE. FOR SLOPES
- 2 DENOTES PROP. TEMP. CONSTR. EASE. FOR ENTRANCES & PARKING LOTS
- 3A DENOTES PROP. PERM. DRAINAGE EASE.
- 3B DENOTES PROP. PERM. DRAINAGE SLOPE EASE.
- 3C DENOTES PROP. PERM. DRAINAGE WALL EASE.
- 4 DENOTES PROP. PERM. SLOPE EASE.
- 5 DENOTES PROP. PERM. WALL EASE.
- 6 DENOTES PROP. VDOT UTILITY EASE.

APPROXIMATE AREAS

PROJECT ASSIGNED PARCEL NO.	TOTAL ACRES	PROP. R/W SQ.FT.	FEE REMAINDER ACRES	VDOT UTILITY SQ.FT.	EASEMENT						
					PERMANENT					TEMP. CONSTR.	
					DRAINAGE SQ.FT.	DRAIN. SLOPE SQ.FT.	DRAIN. WALL SQ.FT.	SLOPE SQ.FT.	WALL SQ.FT.	SLOPES SQ.FT.	ENTRANCES & PARKING LOTS SQ.FT.
029	1.687	9768	1.463	-	3,968	-	1,419	-	-	5,807	-
030	1.818	4,877	1.706	-	-	-	1,719	-	458	3,466	-
079	328,626	28,603	327,969	-	8,857	-	12,597	-	-	7,174	-
081	3,250	-	3,250	4,098	-	-	-	-	-	2,765	5,945
082	1,252	-	1,252	344	2,283	-	-	-	-	107	-
089	2.817	-	2.817	385	969	-	-	-	-	885	-

SCALE 0 50 100'

VDOT PROJECT NO. 0495-029-419

SHEET NO. 15RW AREA 4

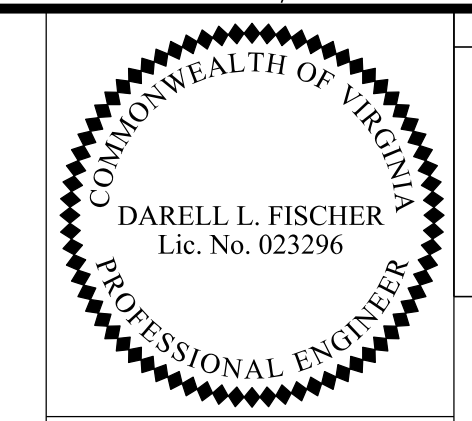
APP. FOR ROW

NOVA DISTRICT

PROJECT MANAGER VDOT - Rupal Shah, PE, (703) 259-2362
SURVEYED BY, DATE RDA - Nicholas Kaugall, LS, (703) 334-0837, 12/2021
DESIGN BY RDA - Darrell Fischer, PE, (703) 334-0823
SUBSURFACE UTILITY BY, DATE Accumark - Michael Taylor, LS, (703) 635-3060, 12/2021

Curve 495XL_SB_010 PI = 275.5877 DELTA = 36' 54" 306.33' (RT)
Curve 495XL_SB_011 PI = 287.7280 DELTA = 10' 02" 52.58' (RT)
Curve 495XL_NB_010 PI = 675.7778 DELTA = 43' 24" 00.77' (RT)
Curve LOD_001 PI = 14.17.04 DELTA = 3' 41" 04.25' (RT)

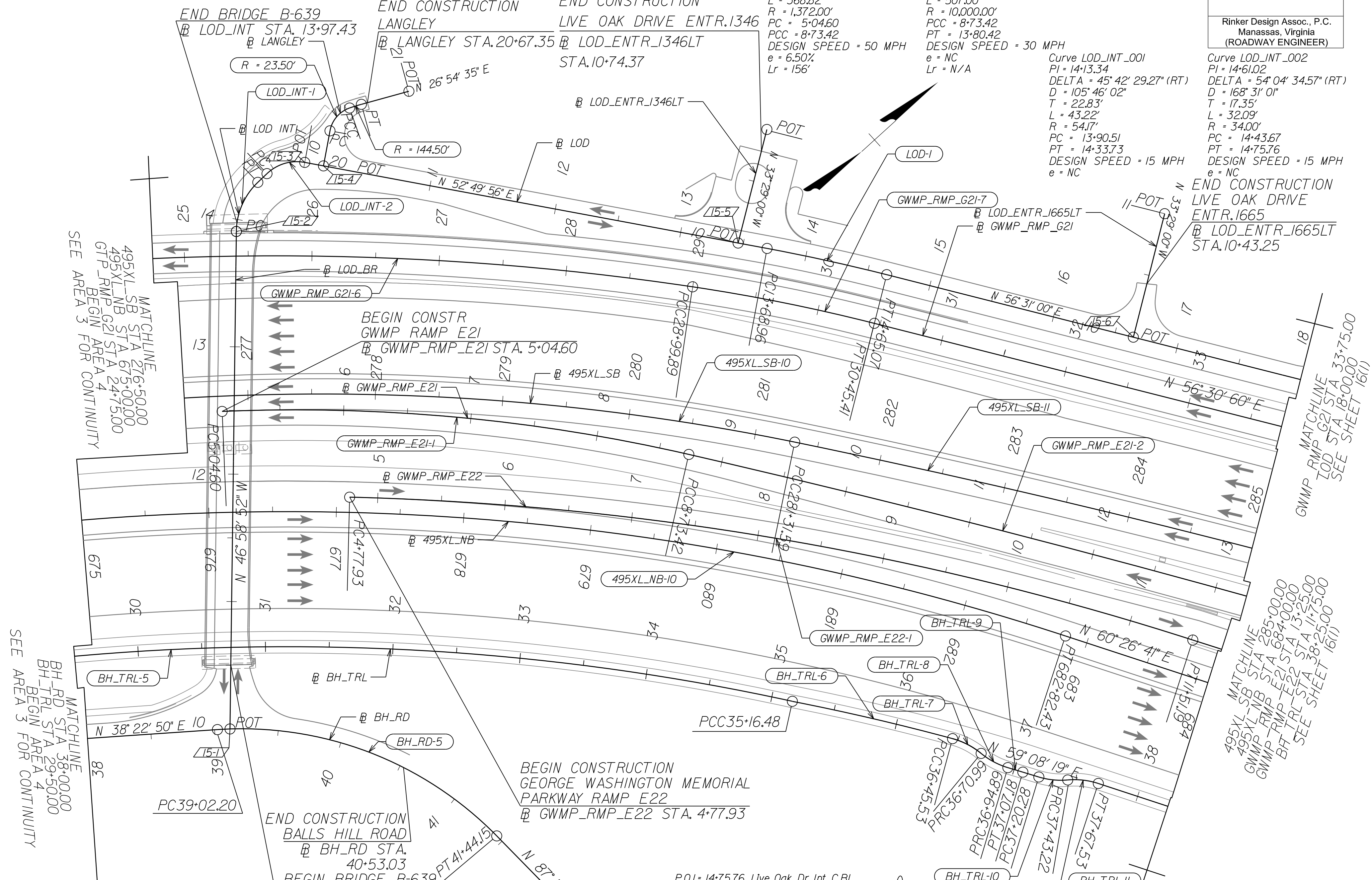
Alignment Data



Rinker Design Assoc., P.C. Manassas, Virginia (ROADWAY ENGINEER)

Table with columns: REVISED, STATE, ROUTE, VDOT PROJECT NO., SHEET NO. Values: VA, 495, 0495-029-419 C501 RW201, 15(1) AREA 4

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



SEE AREA 3 FOR CONTINUITY

SEE AREA 3 FOR CONTINUITY

SEE SHEET 16(1)

SEE SHEET 16(1)

Curve BH_TRL5 PI = 30.79.59 DELTA = 27' 32" 49.46' (RT)
Curve BH_TRL6 PI = 35.81.03 DELTA = 3' 59" 09.32' (RT)

Curve BH_TRL7 PI = 36.58.45 DELTA = 24' 18" 37.84' (RT)
Curve BH_TRL8 PI = 36.83.10 DELTA = 0' 22' 49" 28.24' (LT)

Curve BH_TRL9 PI = 37.01.04 DELTA = 0' 22' 54.48' (RT)
Curve BH_TRL10 PI = 37.31.89 DELTA = 2' 54' 15.65' (LT)

P.O.I. = 14.75.76 Live Oak Dr. Int. C.B.L.
P.O.T. = 10.00.00 Live Oak Dr. C.B.L.
P.O.I. = 10.14.94 Live Oak Dr. C.B.L.

P.O.I. = 13.45.83 Live Oak Dr. C.B.L.
P.O.T. = 10.00.00 Entrance C.B.L.
P.O.I. = 16.64.70 Live Oak Dr. C.B.L.

Curve GWMP_RMP_G21_006 PI = 26.68.19 DELTA = 12' 02" 51.29' (RT)
Curve GWMP_RMP_E22_001 PI = 8.16.88 DELTA = 16' 23' 38.52' (RT)

Curve GWMP_RMP_E22_001 PI = 8.16.88 DELTA = 16' 23' 38.52' (RT)
Curve GWMP_RMP_G21_007 PI = 29.72.71 DELTA = 5' 43' 47.77' (RT)

P.O.I. = 39.12.09 Balls Hill Rd. C.B.L.
P.O.T. = 10.00.00 Live Oak Dr. Bridge C.B.L.
P.O.I. = 13.90.51 Live Oak Dr. Bridge C.B.L.

REFERENCES (PROFILES, DETAIL & DRAINAGE DESCRIPTION SHEETS, ETC.)

Table listing references: Survey Control Data Sheets, Existing Drainage Descriptions, Construction Geometrics, Erosion Controls, Typical Sections, Drainage Descriptions, Design Legend, Roadway Plan Sheet, Drainage Plan Sheet, Right of Way Plan Sheet, Profile 1-495 NB, Profile 1-495 SB, Profile Entrances/Connections.

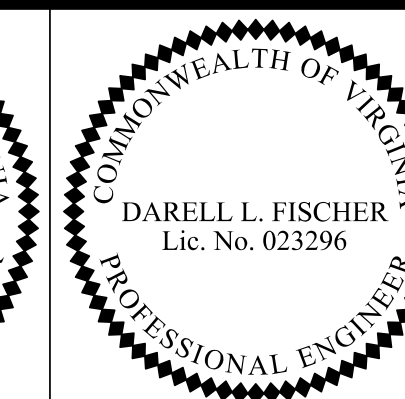
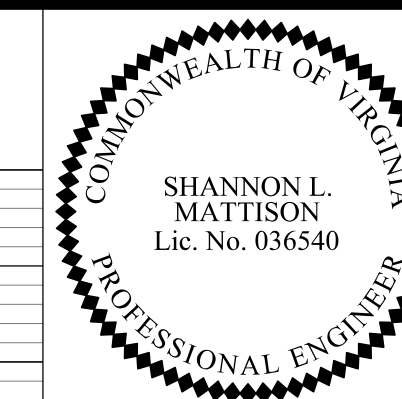
Table with columns: SCALE, VDOT PROJECT NO., SHEET NO. Values: 0 50' 100', 0495-029-419, 15(1) AREA 4

APPROVED FOR CONSTRUCTION

NOVA DISTRICT

PROJECT MANAGER_VDOT - Rimpal Stab, PE, (703) 259-2362
SURVEYED BY_DATE - BDA - Nicholas Kougoulis, LS, (703) 334-0837, 12/2/2021
DESIGN BY_BDA - Darell L Fischer, PE, (703) 334-0823
SUBSURFACE UTILITY BY_DATE - Accumar k - Michael Taylor, LS, (703) 635-3060, 12/2/2021

495 Express Lanes Northbound



Rinker Design Assoc., P.C.
Manassas, Virginia
(HYDRAULICS ENGINEER)

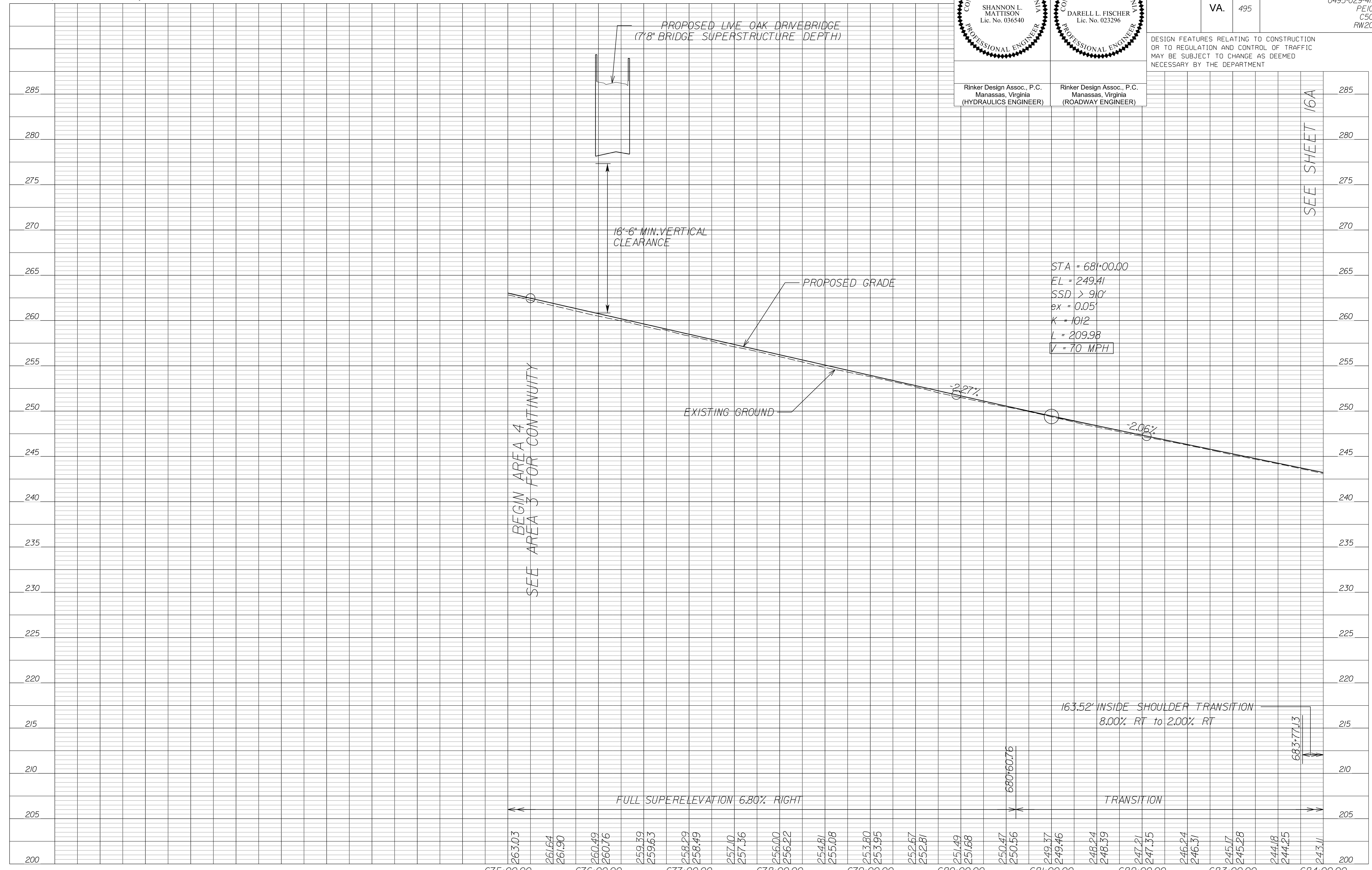
Rinker Design Assoc., P.C.
Manassas, Virginia
(ROADWAY ENGINEER)

REVISED	STATE	ROUTE	STATE PROJECT	SHEET NO
	VA.	495	0495-029-419 FE/01 CS/01 RW/201	15A AREA 4

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

SEE SHEET 16A

STA = 681+00.00
EL = 249.41
SSD > 910'
ex = 0.05'
K = 1012
L = 209.98
V = 70 MPH



SEE AREA 3 FOR CONTINUITY

FULL SUPERELEVATION 6.80% RIGHT

163.52' INSIDE SHOULDER TRANSITION
8.00% RT to 2.00% RT

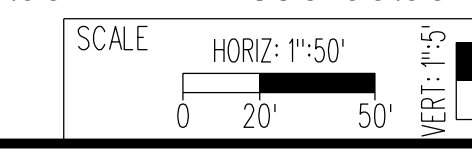
683+77.13

TRANSITION

NOVA DISTRICT

10/26/2022

APPROVED FOR CONSTRUCTION



VDOT PROJECT NO.
0495-029-419

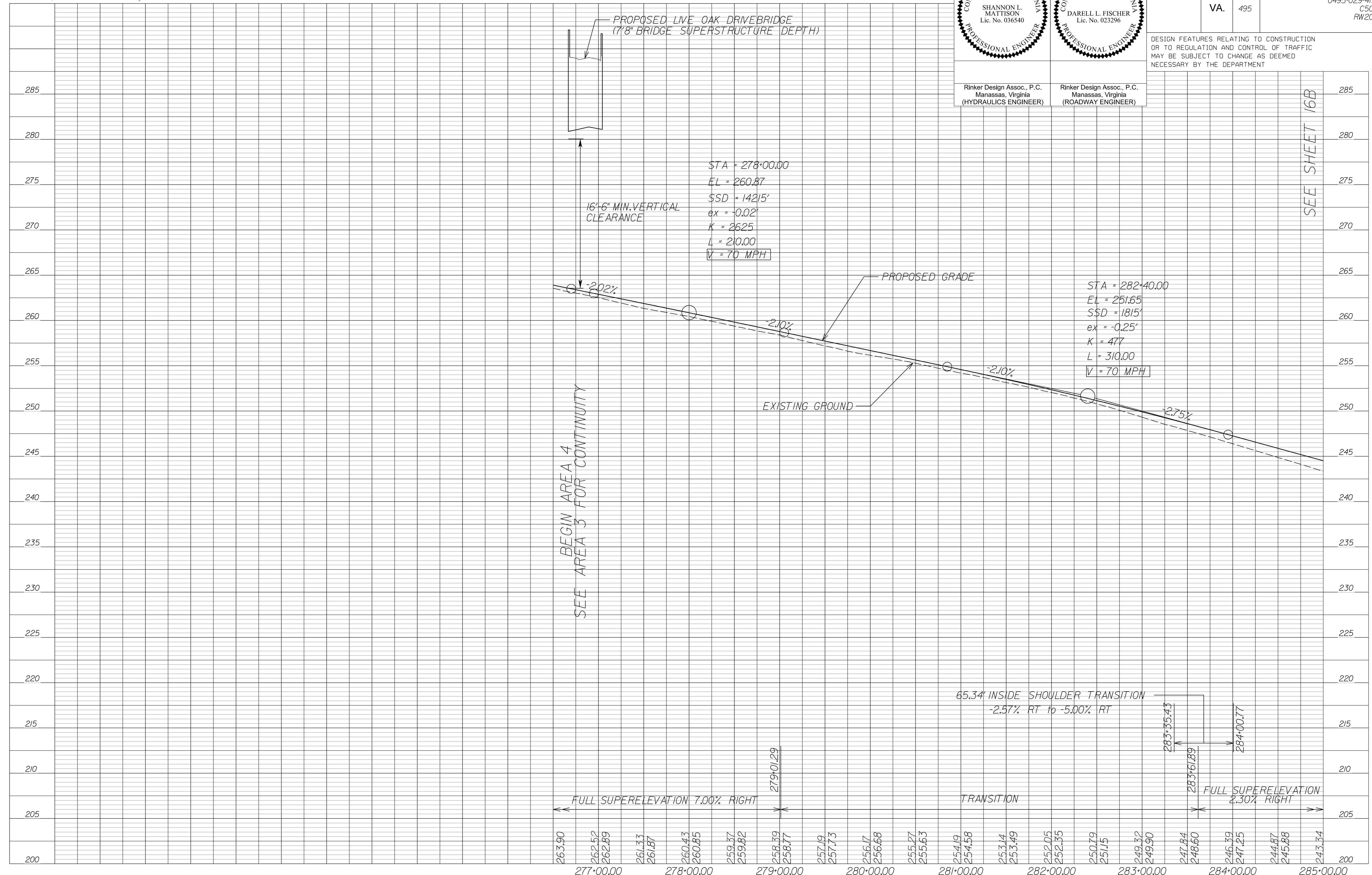
SHEET NO.
15A
AREA 4

PROJECT MANAGER_VDOT - Rimal Stab PE, (703) 259-2362
SURVEYED BY_DATE - BDA - Nicolas Kougoullis LS, (703) 334-0837, 12/2021
DESIGN BY_BDA - Darell Fischer PE, (703) 334-0823
SUBSURFACE UTILITY BY_DATE - Accumark - Michael Taylor LS, (703) 635-3060, 12/2021

495 Express Lanes Southbound

REVISED	STATE	ROUTE	STATE PROJECT	SHEET NO
	VA.	495	0495-029-419 C501 RW201	15B AREA 4

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



NOVA DISTRICT

10/26/2022

APPROVED FOR CONSTRUCTION

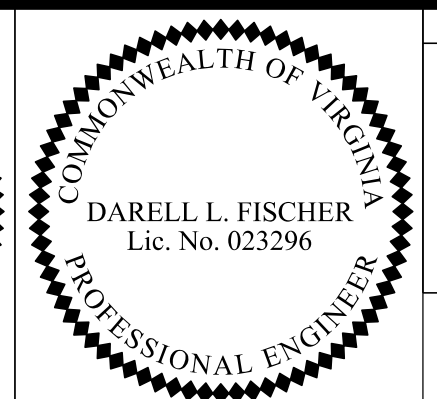
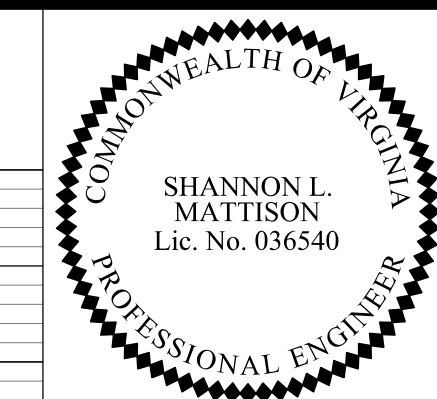
SCALE: HORIZ: 1"=50'
VERT: 1"=5'

VDOT PROJECT NO. 0495-029-419

SHEET NO. 15B AREA 4

PROJECT MANAGER_VDOT - Rimpal Stab PE (703) 259-2362
SURVEYED BY_DATE - BDA - Nicolas Kougoullis LS (703) 334-0837 J2/2021
DESIGN BY_BDA - Darell Fischer PE (703) 334-0823
SUBSURFACE UTILITY BY_DATE - Accumar - Michael Taylor LS (703) 635-3060 J2/2021

George Washington Memorial Pkwy Ramp G2I

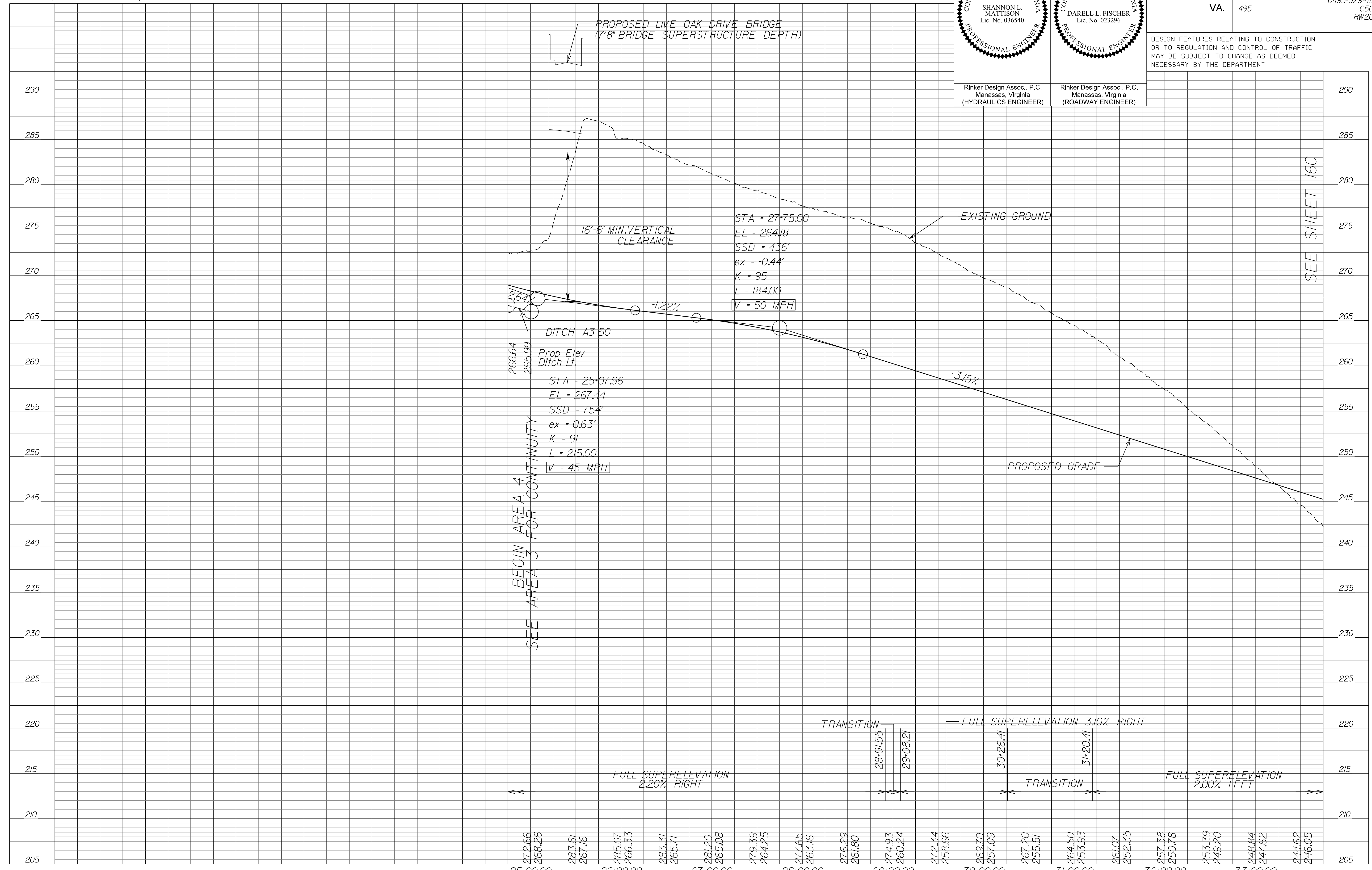


Rinker Design Assoc., P.C.
Manassas, Virginia
(HYDRAULICS ENGINEER)

Rinker Design Assoc., P.C.
Manassas, Virginia
(ROADWAY ENGINEER)

REVISED	STATE	ROUTE	STATE PROJECT	SHEET NO
	VA.	495	0495-029-419 C501 RW201	15C AREA 4

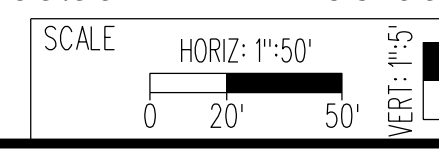
DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT



SEE AREA 3 FOR CONTINUITY

SEE SHEET 16C

NOVA DISTRICT



VDOT PROJECT NO.
0495-029-419

SHEET NO.
15C
AREA 4

APPROVED FOR CONSTRUCTION

PROJECT MANAGER_VDOT - Rimal Stab PE (703) 259-2362
SURVEYED BY_DATE - BDA - Nicholas Kougoulis LS (703) 334-0837 12/2021
DESIGN BY_BDA - Darel L Fischer PE (703) 334-0823
SUBSURFACE UTILITY BY_DATE Accumark - Michael Taylor LS (703) 635-3060 12/2021

George Washington Memorial Pkwy Ramp E21

SHANNON L. MATTISON
Lic. No. 036540
PROFESSIONAL ENGINEER

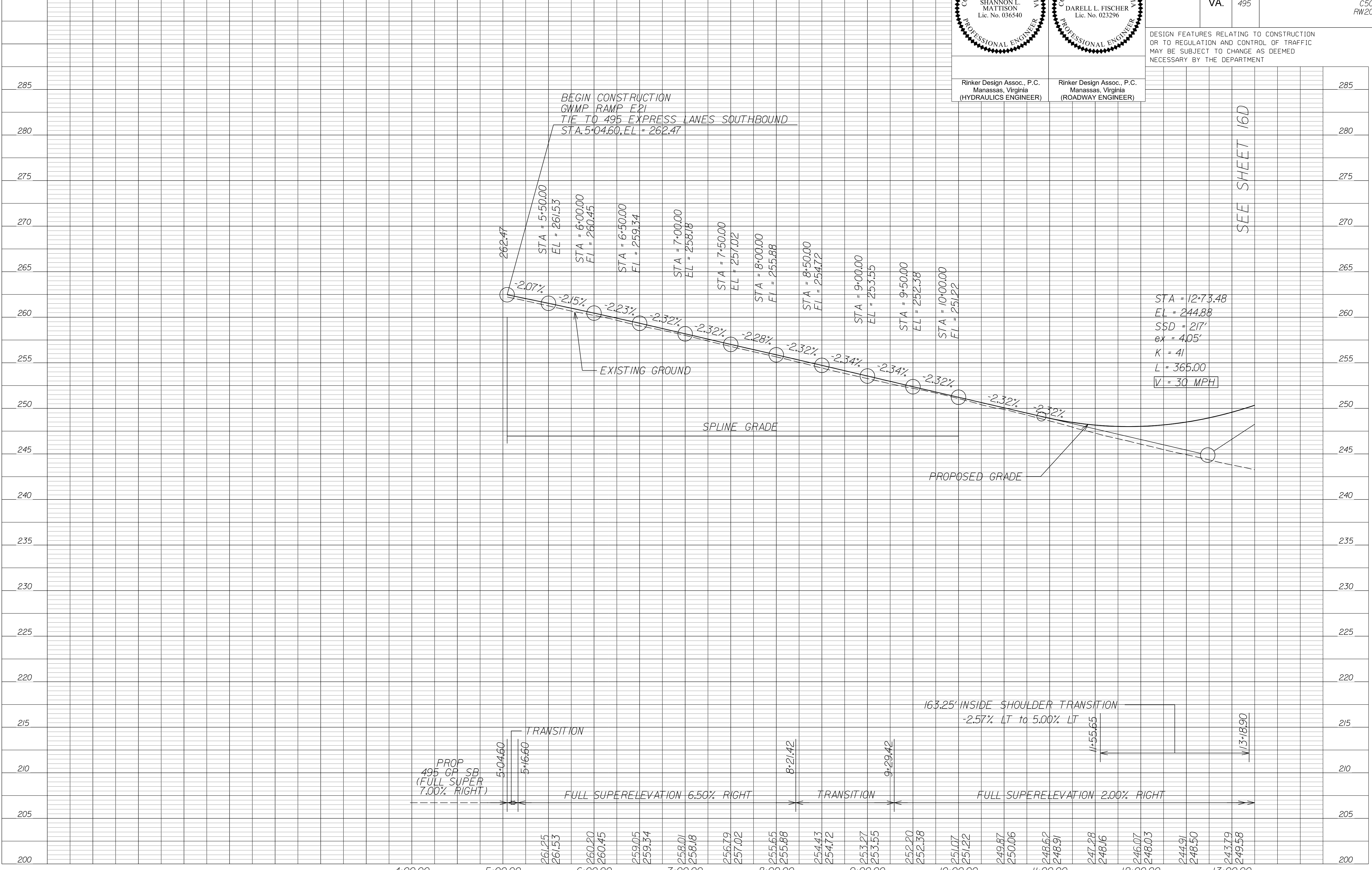
DARELL L. FISCHER
Lic. No. 023296
PROFESSIONAL ENGINEER

Rinker Design Assoc., P.C.
Manassas, Virginia
(HYDRAULICS ENGINEER)

Rinker Design Assoc., P.C.
Manassas, Virginia
(ROADWAY ENGINEER)

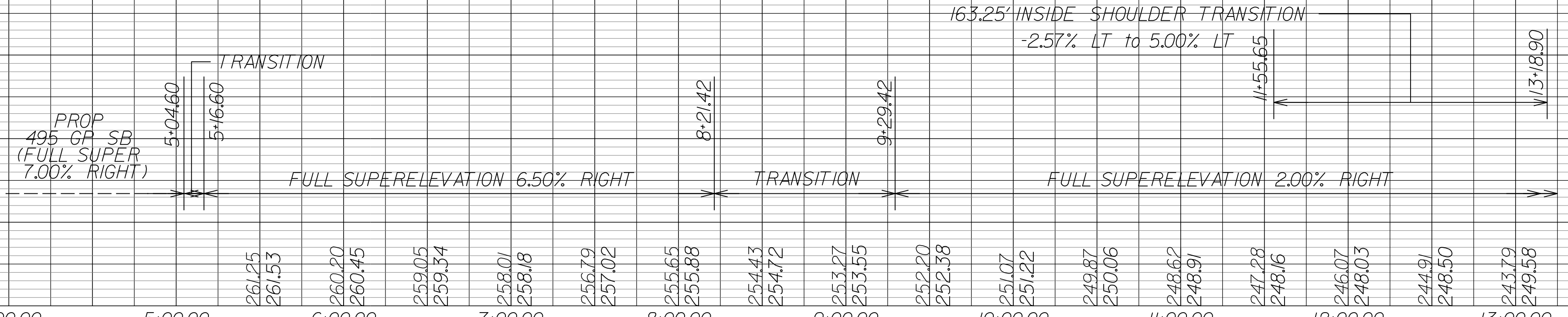
REVISED	STATE	ROUTE	STATE PROJECT	SHEET NO.
	VA.	495	0495-029-419 C501 RW201	15D AREA 4

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



STA = 12+73.48
EL = 244.88
SSD = 217'
ex = 405'
K = 41
L = 365.00
V = 30 MPH

SEE SHEET 16D



NOVA DISTRICT

10/26/2022

SCALE: HORIZ: 1"=50' VERT: 1"=5'

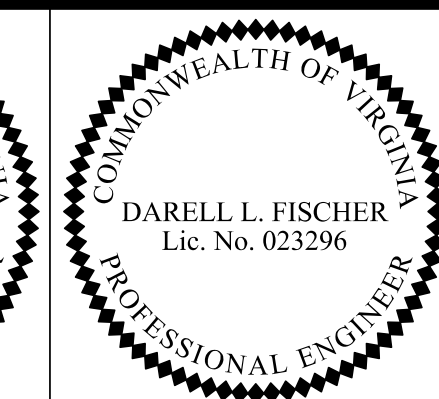
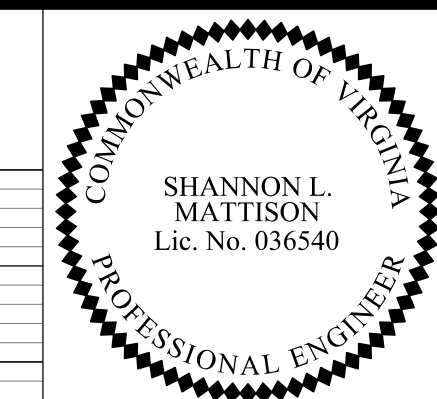
VDOT PROJECT NO. 0495-029-419

SHEET NO. 15D AREA 4

APPROVED FOR CONSTRUCTION

PROJECT MANAGER_VDOT - Rimal Stab PE (703) 259-2362
SURVEYED BY_DATE - BDA - Nicolas Kougoullis LS (703) 334-0837 12/2/2021
DESIGN BY_BDA - Darell Fischer PE (703) 334-0823
SUBSURFACE UTILITY BY_DATE - Accumar - Michael Taylor LS (703) 635-3060 12/2/2021

George Washington Memorial Pkwy Ramp E22

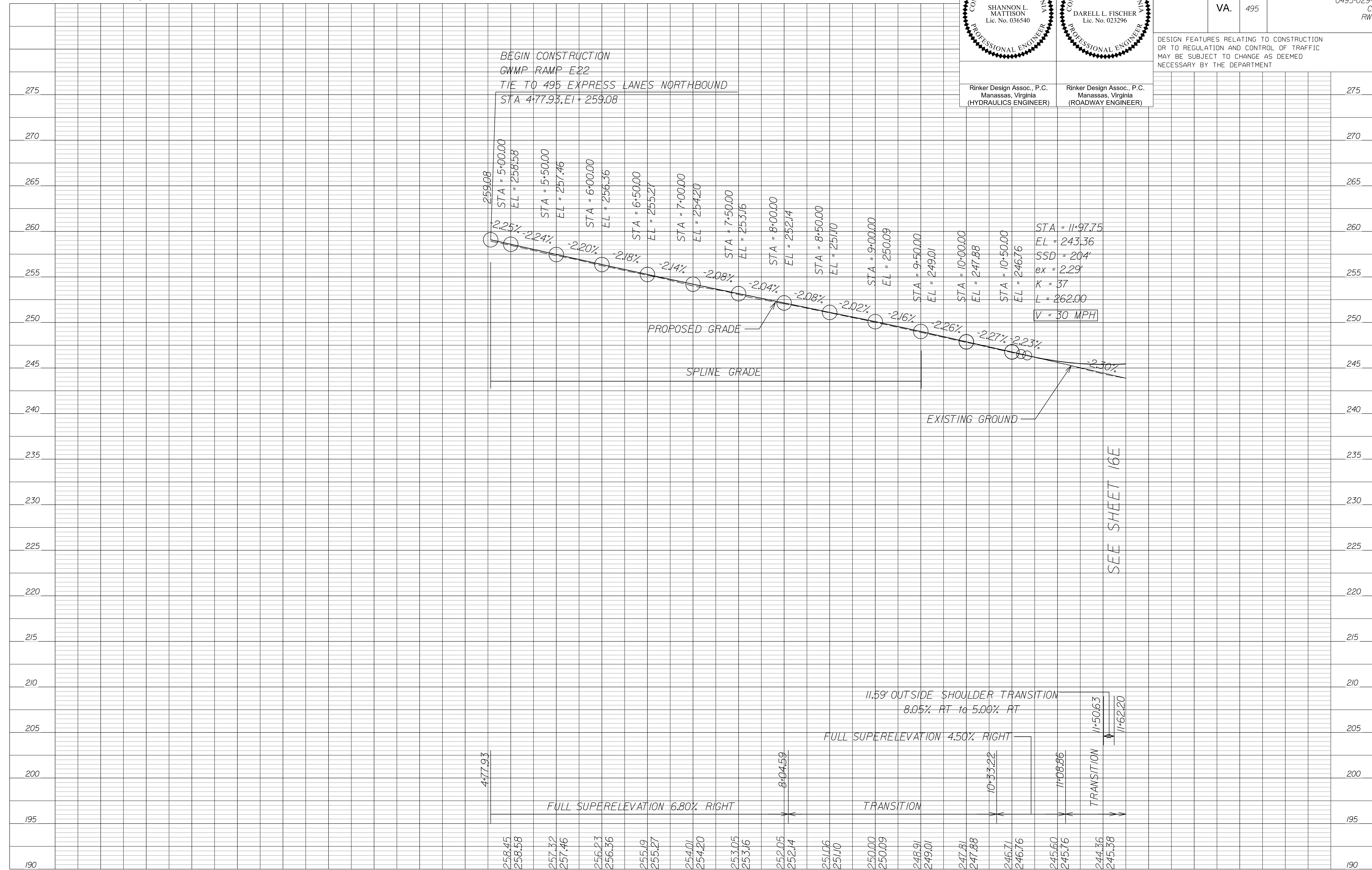


Rinker Design Assoc., P.C.
Manassas, Virginia
(HYDRAULICS ENGINEER)

Rinker Design Assoc., P.C.
Manassas, Virginia
(ROADWAY ENGINEER)

REVISED	STATE		PROJECT		SHEET NO.
	VA.	ROUTE 495	0495-029-419	C501 RW201	
					15E AREA 4

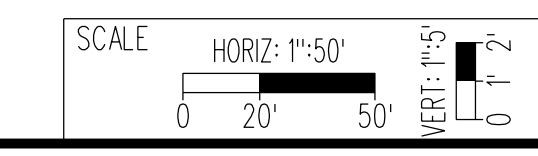
DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT



SEE SHEET 16E

NOVA DISTRICT

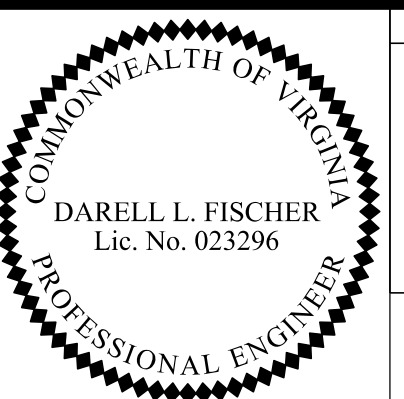
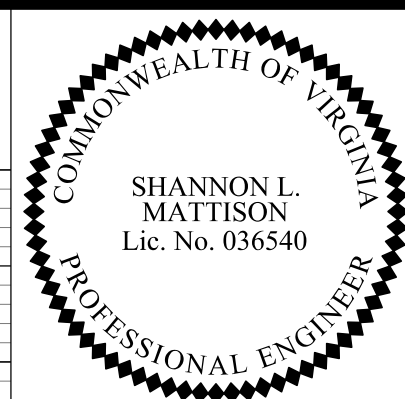
APPROVED FOR CONSTRUCTION



VDOT PROJECT NO. 0495-029-419
SHEET NO. 15E
AREA 4

PROJECT MANAGER_VDOT - Rimpal Stab PE (703) 259-2362
SURVEYED BY_DATE - BDA - Nicolas Kougoullis LS (703) 334-0837 12/2021
DESIGN BY_BDA - Darell Elischer PE (703) 334-0823
SUBSURFACE UTILITY BY_DATE Accumark - Michael Taylor LS (703) 635-3060 12/2021

Balls Hill Road



REVISED	STATE	ROUTE	STATE PROJECT	SHEET NO.
	VA.	495	0495-029-419 C501 RW201	15F AREA 4

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

Rinker Design Assoc., P.C.
Manassas, Virginia
(HYDRAULICS ENGINEER)

Rinker Design Assoc., P.C.
Manassas, Virginia
(ROADWAY ENGINEER)

305

300

295

290

285

280

275

270

265

260

255

250

245

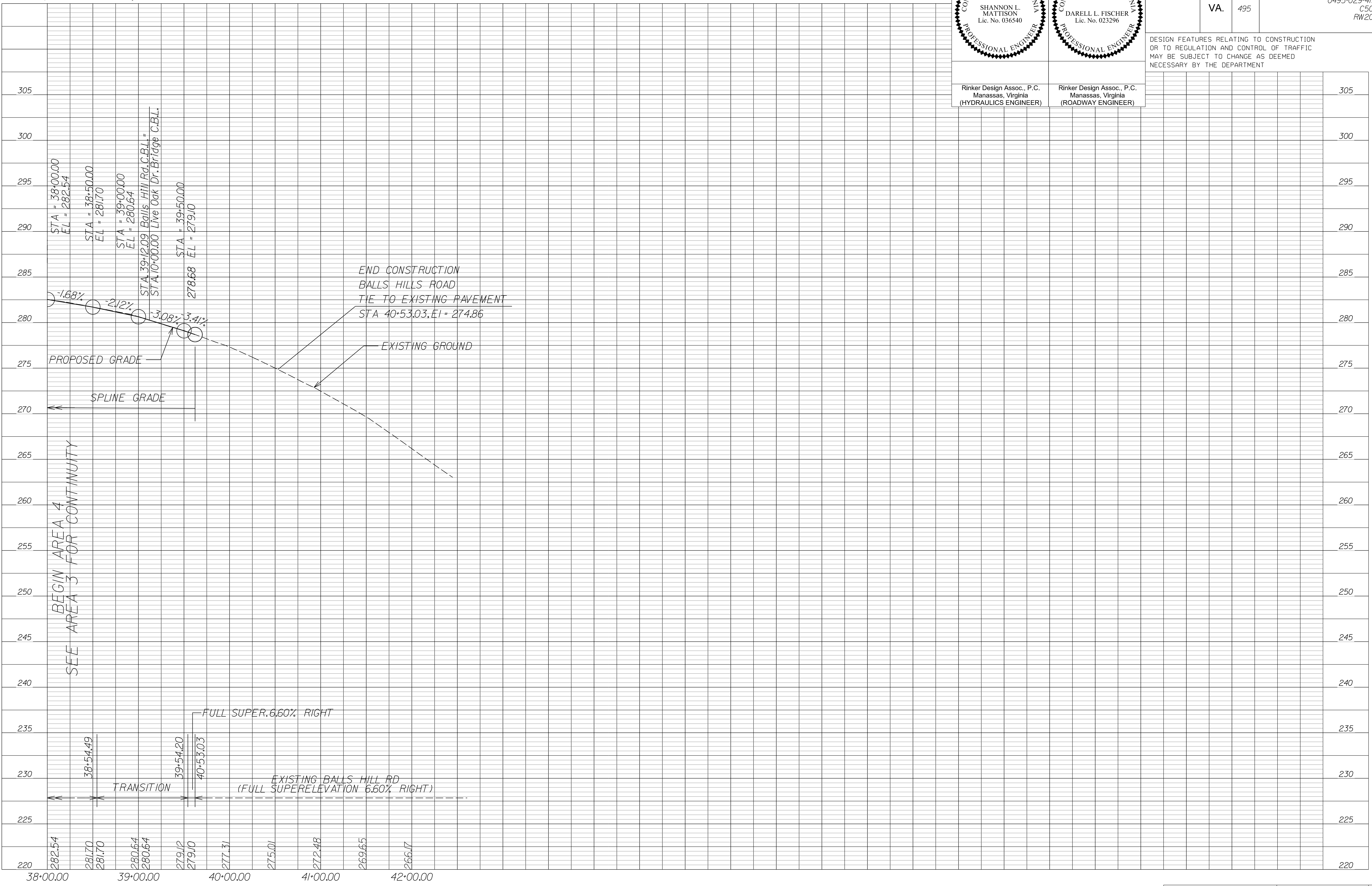
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235

230

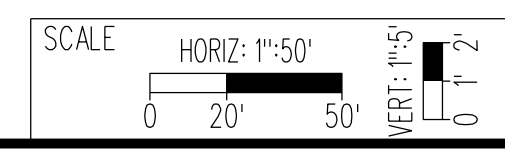
225

220



BEGIN AREA 4
SEE AREA 3 FOR CONTINUITY

NOVA DISTRICT



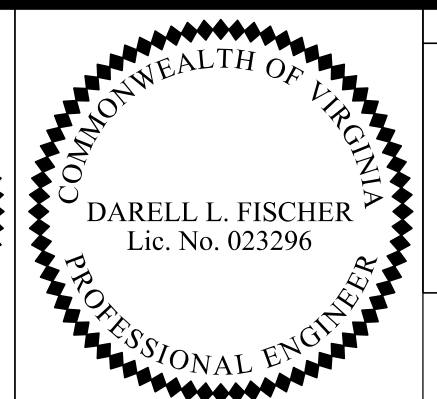
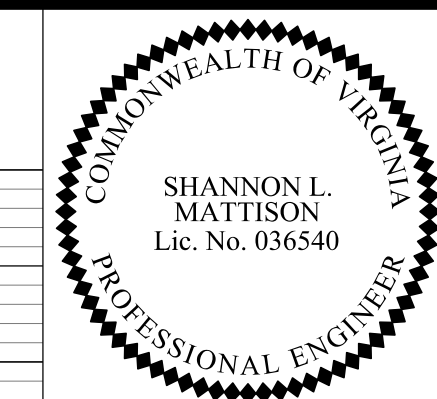
VDOT PROJECT NO.
0495-029-419

SHEET NO.
15F
AREA 4

APPROVED FOR CONSTRUCTION

PROJECT MANAGER_VDOT - Rimal Stab PE, (703) 259-2362
SURVEYED BY_DATE - BDA - Nicolas Kougouls LS, (703) 334-0837, 12/2021
DESIGN BY_BDA - Darell Fischer PE, (703) 334-0823
SUBSURFACE UTILITY BY_DATE Accurmark - Michael Taylor LS, (703) 635-3060, 12/2021

Balls Hill Shared Use Path



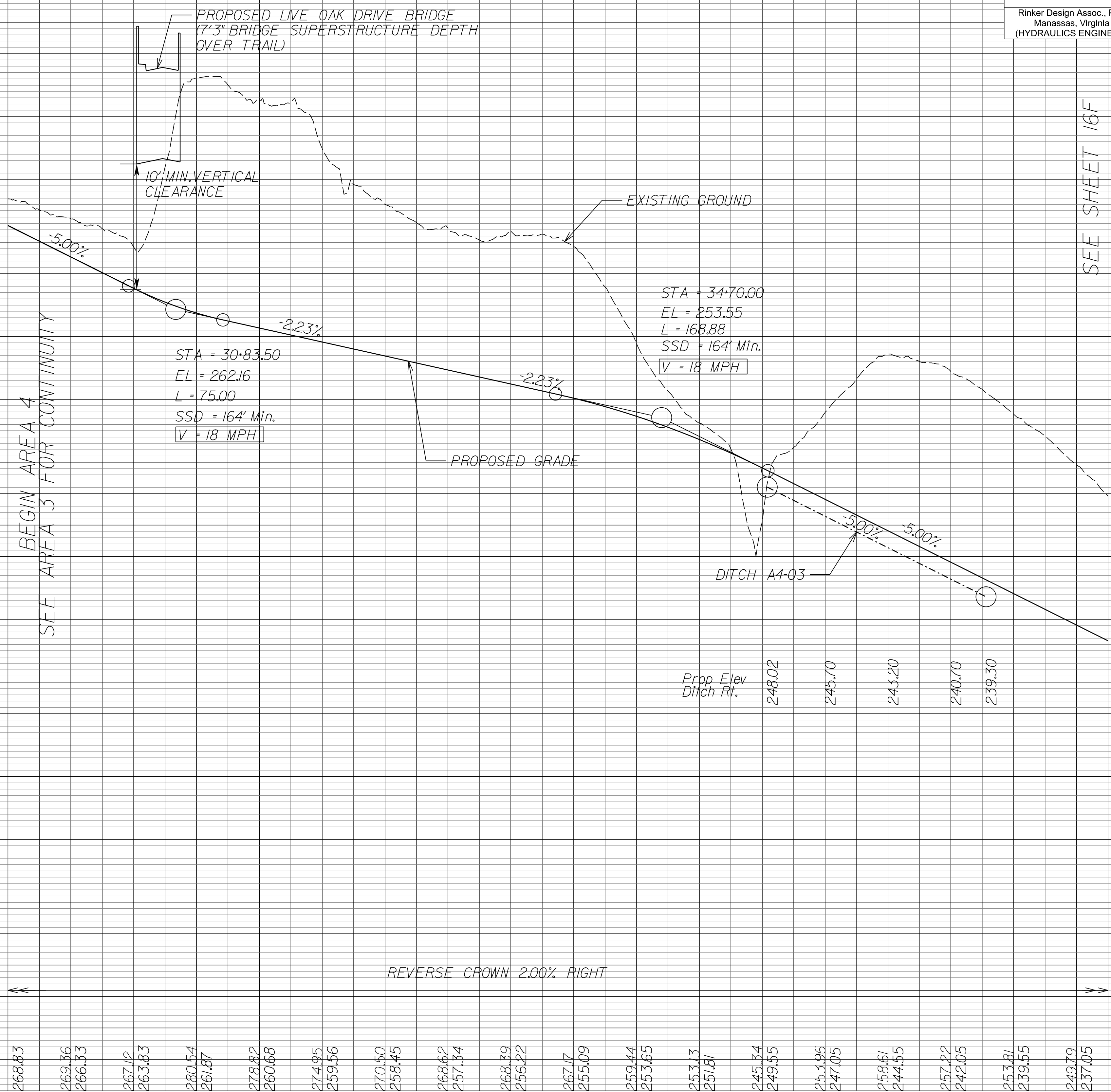
REVISED	STATE	ROUTE	STATE PROJECT	SHEET NO.
	VA.	495	0495-029-419 C501 RW201	15G AREA 4

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

Rinker Design Assoc., P.C.
Manassas, Virginia
(HYDRAULICS ENGINEER)

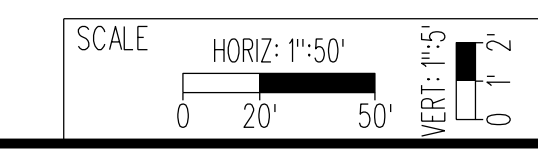
Rinker Design Assoc., P.C.
Manassas, Virginia
(ROADWAY ENGINEER)

285
280
275
270
265
260
255
250
245
240
235
230
225
220
215
210
205
200



NOVA DISTRICT

10/26/2022



VDOT PROJECT NO. 0495-029-419
SHEET NO. 15G AREA 4

APPROVED FOR CONSTRUCTION

PROJECT MANAGER_VDOT - Rimal Stab PE, (703) 259-2362
 SURVEYED BY_DATE - Nicholas Kougoulis LS, (703) 334-0837, 12/2021
 DESIGN BY_BDA - Darrell Fischer PE, (703) 334-0823
 SUBSURFACE UTILITY BY_DATE Accumark - Michael Taylor LS, (703) 635-3060, 12/2021

LIMITED ACCESS HIGHWAY By Resolution of State Highway Commission dated October 4, 1956
 LIMITED ACCESS HIGHWAY By Resolution of Commonwealth Transportation Board dated May 17, 2022

SHANNON L. MATTISON
Lic. No. 036540
PROFESSIONAL ENGINEER

DARELL L. FISCHER
Lic. No. 023296
PROFESSIONAL ENGINEER

Rinker Design Assoc., P.C.
Manassas, Virginia
(HYDRAULICS ENGINEER)

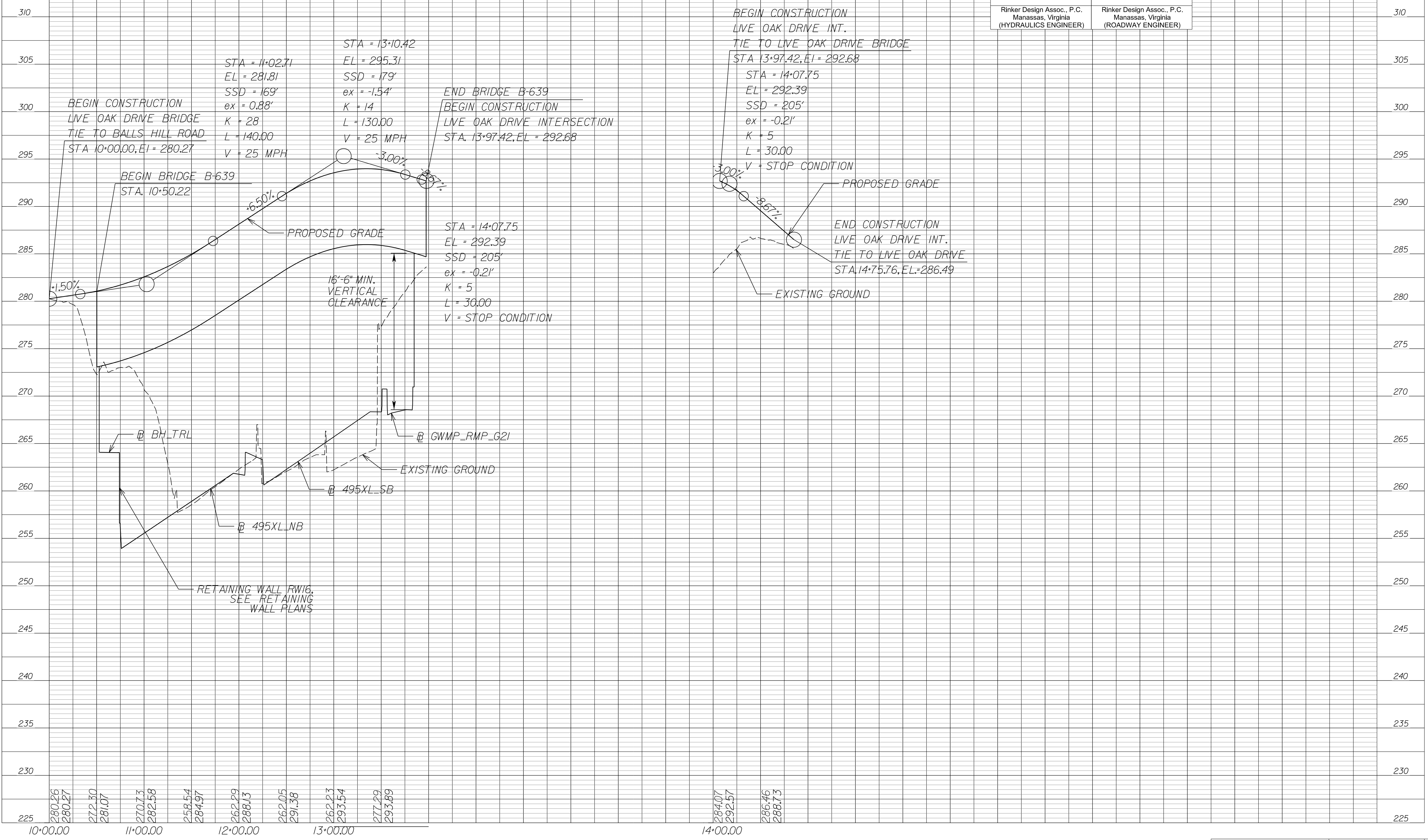
Rinker Design Assoc., P.C.
Manassas, Virginia
(ROADWAY ENGINEER)

REVISED	STATE	ROUTE	STATE PROJECT	SHEET NO.
	VA.	495	0495-029-419 C501 RW201 B639	15H AREA 4

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

Live Oak Drive Bridge

Live Oak Drive Intersection



NOVA DISTRICT

10/26/2022

SCALE: HORIZ: 1"=50'
 VERT: 1"=5'

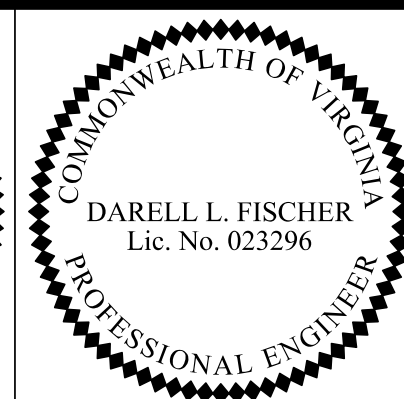
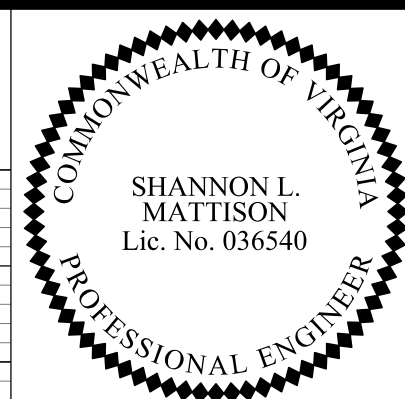
VDOT PROJECT NO. 0495-029-419

SHEET NO. 15H AREA 4

APPROVED FOR CONSTRUCTION

PROJECT MANAGER_VDOT - Rimpal Stab PE, (703) 259-2362
SURVEYED BY, DATE - BDA - Nicolas Kougoullis, LS, (703) 334-0837, 12/2021
DESIGN BY - BDA - Darell Fischer, PE, (703) 334-0823
SUBSURFACE UTILITY BY, DATE - Accumar - Michael Taylor, LS, (703) 635-3060, 12/2021

Live Oak Drive

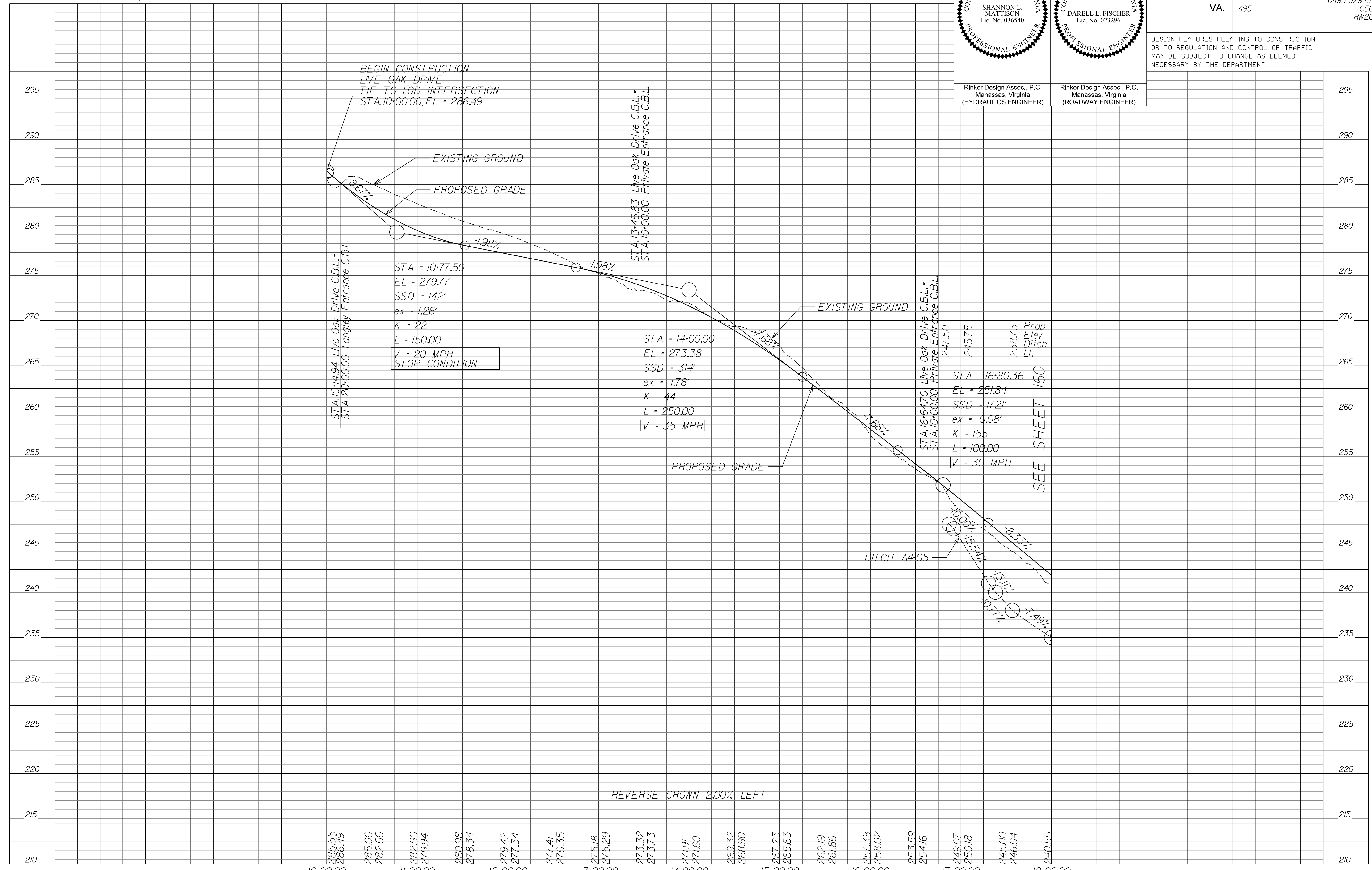


Rinker Design Assoc., P.C.
Manassas, Virginia
(HYDRAULICS ENGINEER)

Rinker Design Assoc., P.C.
Manassas, Virginia
(ROADWAY ENGINEER)

REVISED	STATE	ROUTE	STATE PROJECT	SHEET NO.
	VA.	495	0495-029-419 C501 RW201	15J AREA 4

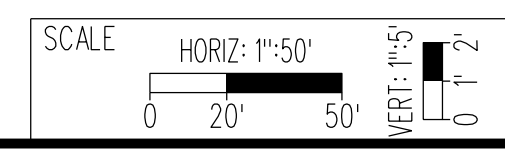
DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT



NOVA DISTRICT

10/26/2022

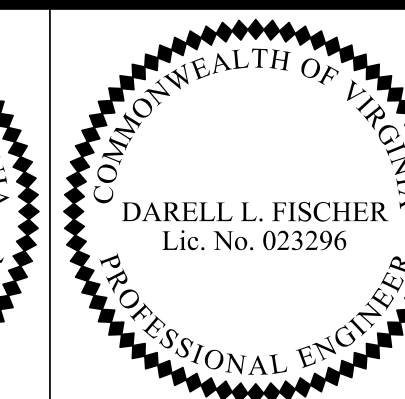
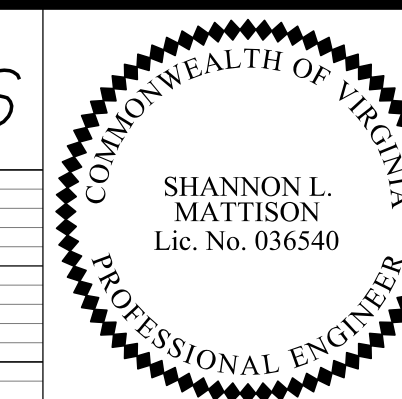
APPROVED FOR CONSTRUCTION



VDOT PROJECT NO. 0495-029-419
SHEET NO. 15J
AREA 4

PROJECT MANAGER_VDOT - Rimpal Stab PE, (703) 259-2362
SURVEYED BY, DATE_BDA - Nicholas Kougoullis LS, (703) 334-0837, 12/2021
DESIGN BY_BDA - Darrell Fischer PE, (703) 334-0823
SUBSURFACE UTILITY BY, DATE_Accumark - Michael Taylor LS, (703) 635-3060, 12/2021

Private Entrances

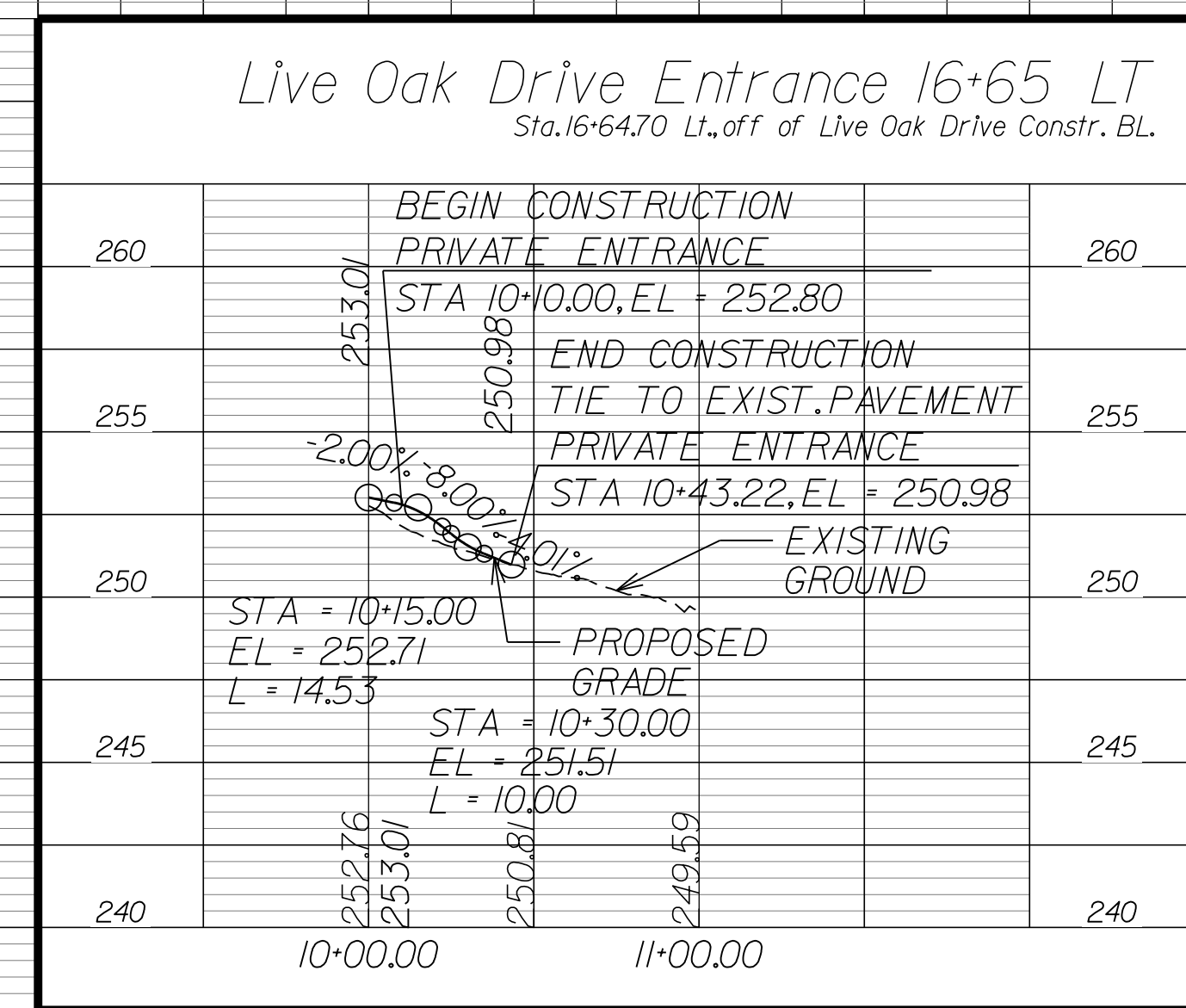
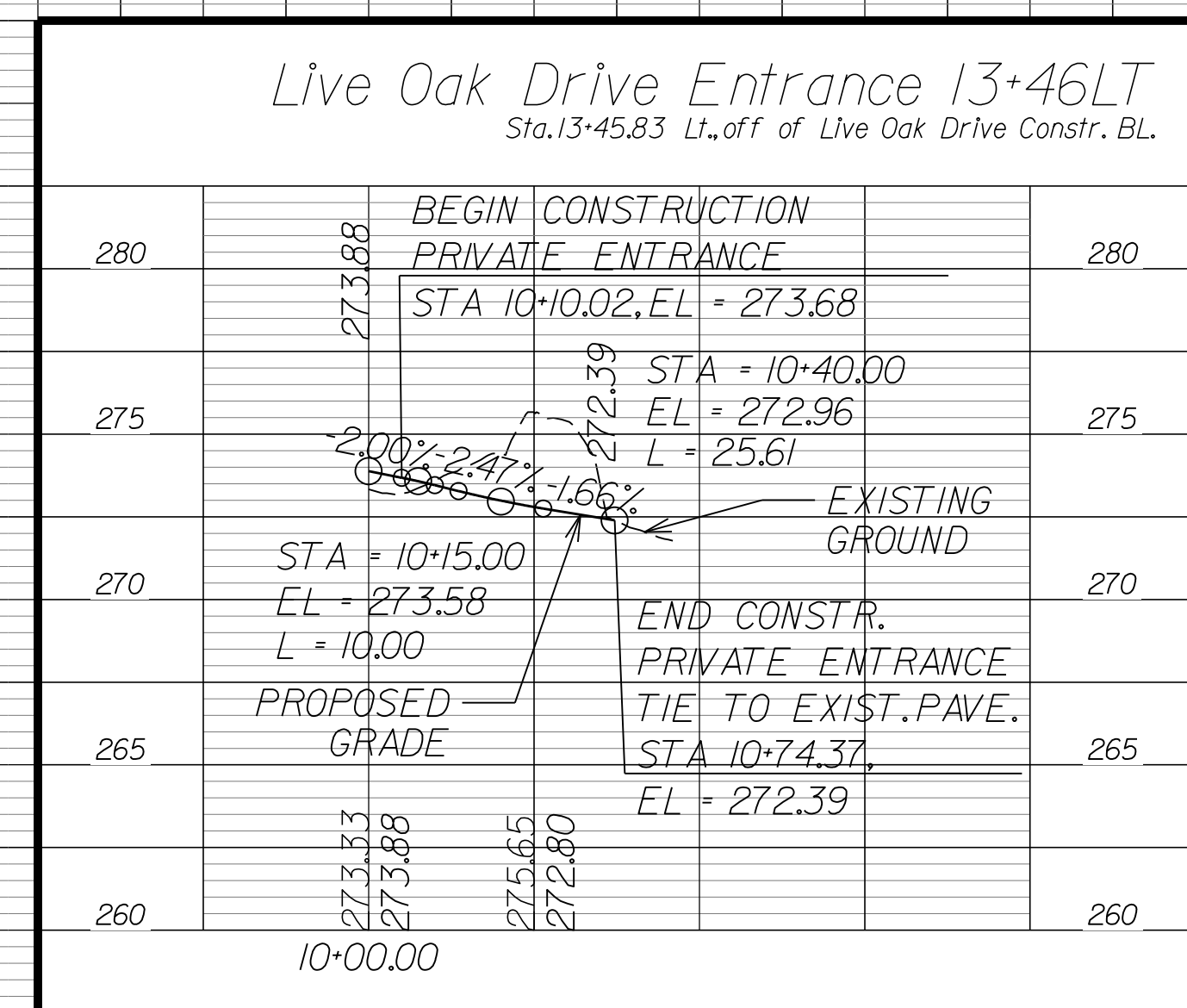
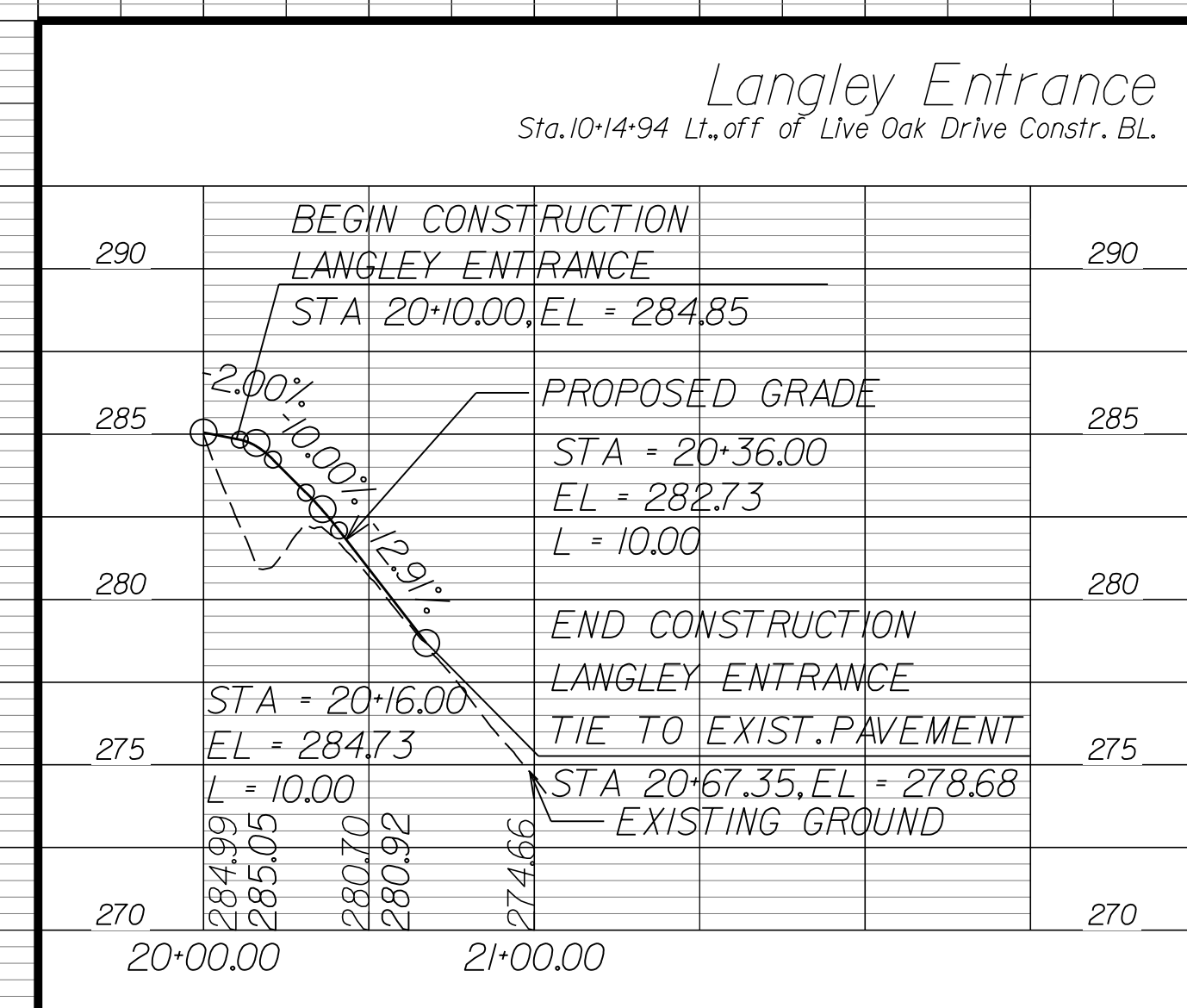


Rinker Design Assoc., P.C.
Manassas, Virginia
(HYDRAULICS ENGINEER)

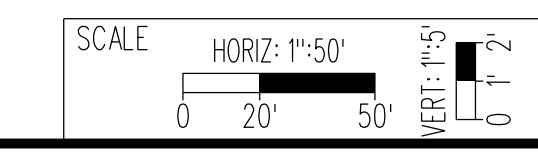
Rinker Design Assoc., P.C.
Manassas, Virginia
(ROADWAY ENGINEER)

REVISED	STATE	ROUTE	STATE PROJECT	SHEET NO.
	VA.	495	0495-029-419 C501 RW201	15K AREA 4

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



NOVA DISTRICT



APPROVED FOR CONSTRUCTION

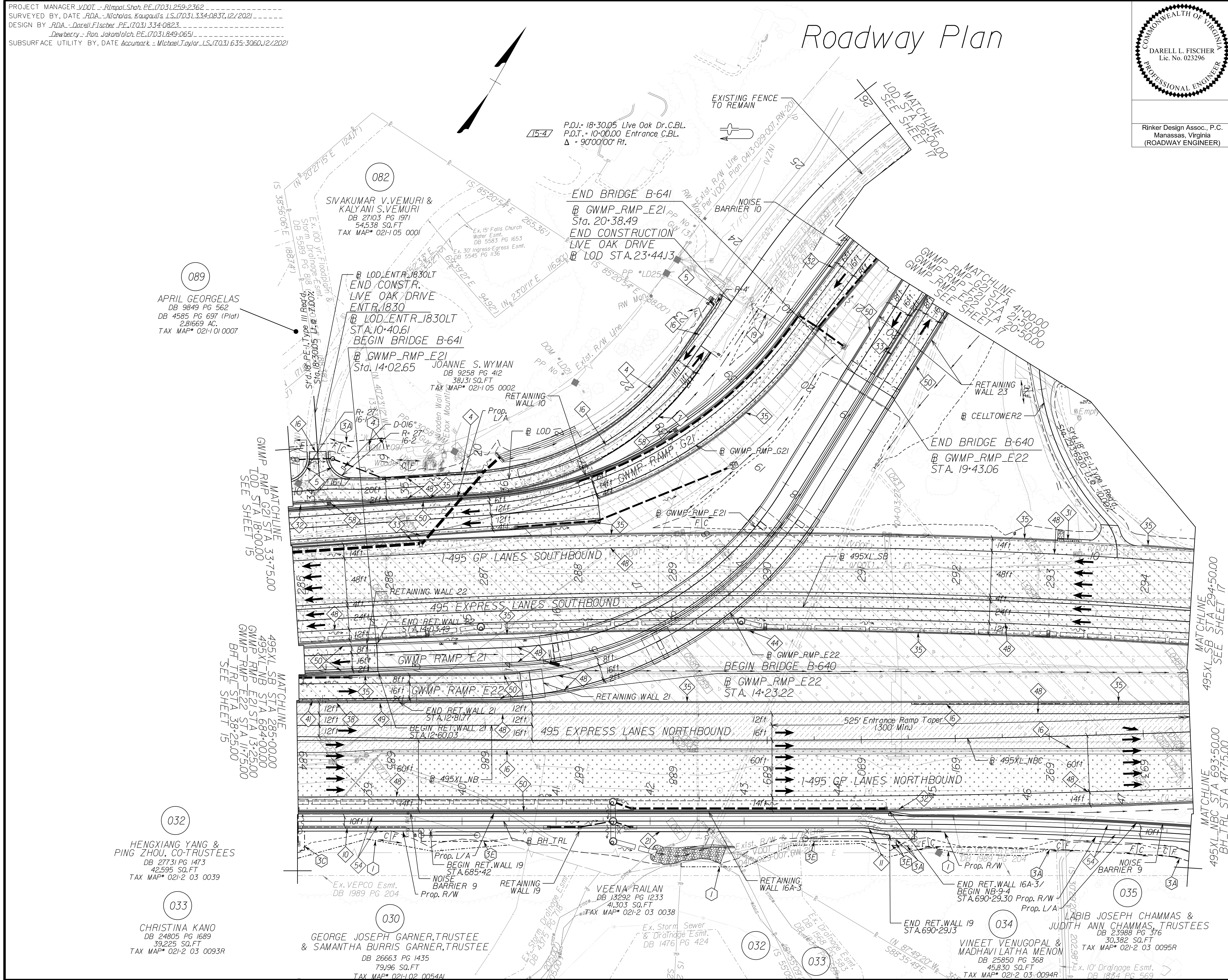
PROJECT MANAGER_VDOT - Rupal Shah, P.E. (703) 259-2362
SURVEYED BY, DATE_RDA - Nicholas Kaugall's, L.S. (703) 334-0837, 12/2021
DESIGN BY_RDA - Dorell Fischer, P.E. (703) 334-0823
SUBSURFACE UTILITY BY, DATE_Accumark - Michael Taylor, L.S. (703) 635-3060, 12/2021

Rinker Design Assoc., P.C.
Manassas, Virginia
(ROADWAY ENGINEER)

REVISED	STATE	ROUTE	STATE	VDOT PROJECT NO.	SHEET NO.
	VA.	495		0495-029-419 C501 RW201 B640 B641	16 AREA 4

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

Roadway Plan



NOTE: SEE SHEET 22 FOR RIGHT-OF-WAY AND DESIGN LEGENDS.

REFERENCES (PROFILES, DETAIL & DRAINAGE DESCRIPTION SHEETS, ETC.)

Survey Control Data Sheets	1F thru 1F(4)
Existing Drainage Descriptions	1F(5) thru 1F(9)
Construction Geometrics	1G thru 1G(4)
Erosion Controls Ph1 & Ph2	1N(6), 1N(16)
Typical Sections	2A thru 2B(13)
Ditch Lining Typical	2J
Drainage Descriptions	2K thru 2K(6)
Design Legend	2Z
Drainage Plan Sheet	16DRN
Right of Way Plan Sheet	16RW
Alignment Data Sheet	16(1)
Profile 1-495 NB	16A
Profile 1-495 SB	16B
Profile Connectors	16C thru 16H

SCALE	VDOT PROJECT NO.	SHEET NO.
0 50' 100'	0495-029-419	16 AREA 4

APPROVED FOR CONSTRUCTION

NOVA DISTRICT

PROJECT MANAGER_VDOT - Rupal Shah, P.E. (703) 259-2362
 SURVEYED BY, DATE_RDA - Nicholas Kaugall's, L.S. (703) 334-0837, 12/2021
 DESIGN BY_RDA - Darrell Fischer, P.E. (703) 334-0823
 SUBSURFACE UTILITY BY, DATE_Accumark - Michael Taylor, L.S. (703) 635-3060, 12/2021

Drainage Plan

SHANNON L. MATTISON
 Lic. No. 036540
 PROFESSIONAL ENGINEER

Rinker Design Assoc., P.C.
 Manassas, Virginia
 (HYDRAULICS ENGINEER)

REVISED	STATE	ROUTE	STATE	VDOT PROJECT NO.	SHEET NO.
	VA.	495		0495-029-419 C501 RW201	16DRN AREA 4

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

NOVA DISTRICT

089
 APRIL GEORGE LAS
 DB 9849 PG 562
 DB 4585 PG 697 (Plat)
 2.81669 AC.
 TAX MAP* 021-01 0007

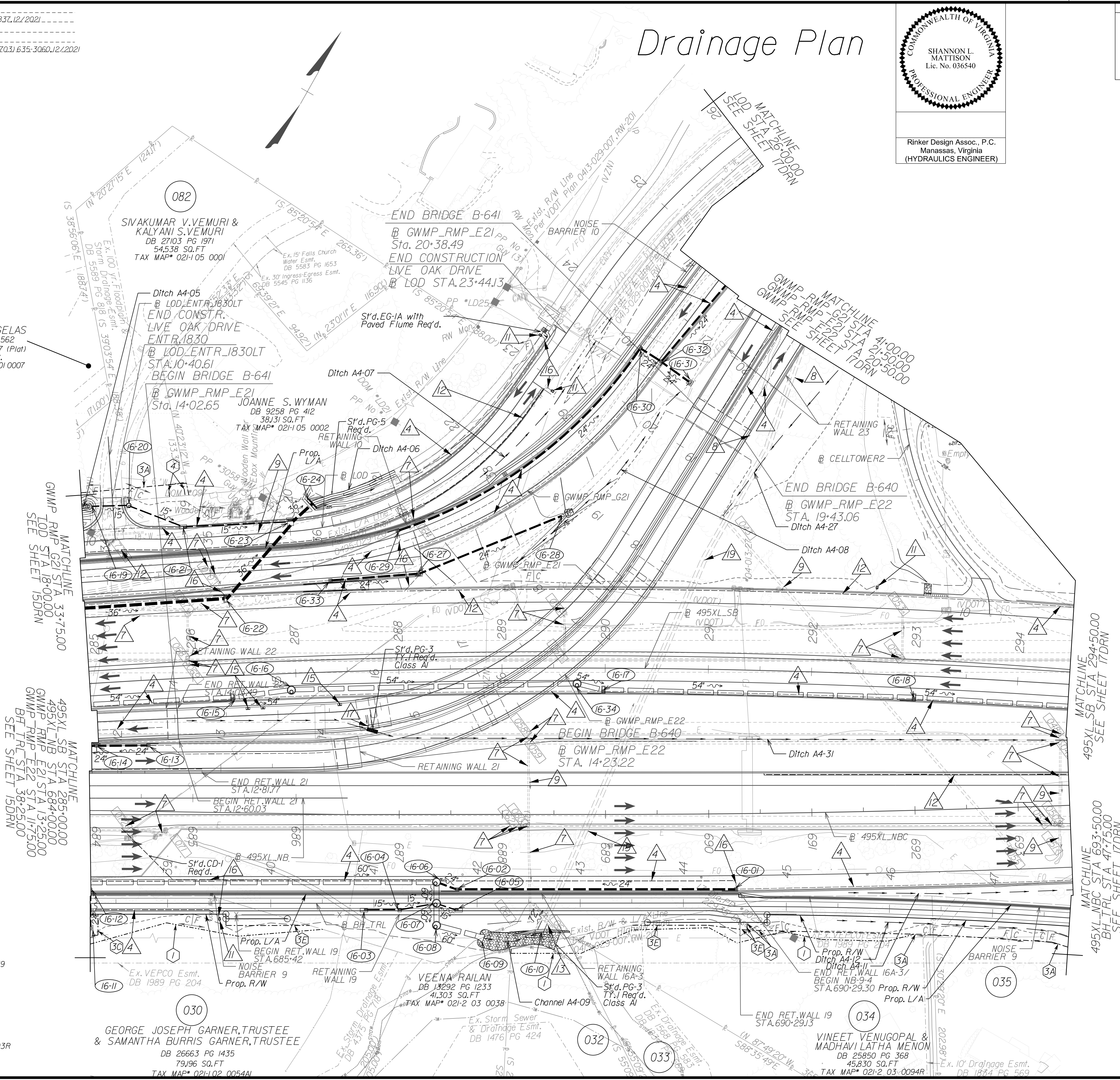
032
 PING ZHOU &
 HENGXIANG YANG
 DB 13560 PG 511
 42,595 SQ.FT
 TAX MAP* 021-2 03 0039

033
 CHRISTINA KANO
 DB 24805 PG 1689
 39,225 SQ.FT
 TAX MAP* 021-2 03 0093R

030
 GEORGE JOSEPH GARNER, TRUSTEE
 & SAMANTHA BURRIS GARNER, TRUSTEE
 DB 26663 PG 1435
 79,196 SQ.FT
 TAX MAP* 021-02 0054A1

032
 VEENA RAILAN
 DB 18292 PG 1233
 41,303 SQ.FT
 TAX MAP* 021-2 03 0038

034
 VINEET VENUGOPAL &
 MADHAVI LATHA MENON
 DB 25850 PG 368
 45,830 SQ.FT
 TAX MAP* 021-2 03 0094R



NOTE: SEE SHEET 22 FOR RIGHT-OF-WAY AND DESIGN LEGENDS.

REFERENCES
 (PROFILES, DETAIL & DRAINAGE DESCRIPTION SHEETS, ETC.)

Survey Control Data Sheets	1F thru 1F(4)
Existing Drainage Descriptions	1F(5) thru 1F(9)
Construction Geometrics	1G thru 1G(4)
Erosion Controls Ph1 & Ph2	N(16), N(16)
Typical Sections	2A thru 2B(3)
Ditch Lining Typicals	2J
Drainage Descriptions	2K thru 2K(6)
Design Legend	2Z
Roadway Plan Sheet	16
Right of Way Plan Sheet	16RW
Alignment Data Sheet	16(1)
Profile 1-495 NB	16A
Profile 1-495 SB	16B
Profile Connections	16C thru 16H

SCALE	VDOT PROJECT NO.	SHEET NO.
0 50' 100'	0495-029-419	16DRN AREA 4

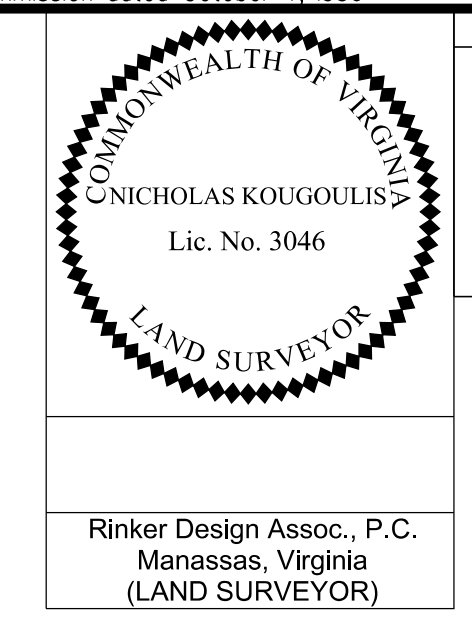
APPROVED FOR CONSTRUCTION

PROJECT MANAGER VDOT - Bitrapal,Shob PE,(703) 259-2362
 SURVEYED BY, DATE RDA - Nicholas Kougoulis LS,(703) 334-0837,1/2019
 DESIGN BY RDA - Darrell Elischer PE,(703) 334-0823
 SUBSURFACE UTILITY BY, DATE Accumark - Mitchell Taylor LS,(703) 635-3060,12/2021

Curve 495XL_NBC_001
 PI = 692-72.03
 DELTA = 3° 39' 02.55" (LT)
 D = 0° 29' 54"
 T = 366.50'
 L = 732.74'
 R = 11,500.00'
 PC = 689-05.53
 PT = 696-38.28
 DESIGN SPEED = 60 MPH
 e = NC
 Lr = N/A

Curve 495XL_SB_011
 PI = 287-72.80
 DELTA = 10° 02' 52.58" (RT)
 D = 0° 47' 08"
 T = 641.22'
 L = 1,279.15'
 R = 7,294.00'
 PCC = 281-31.59
 PT = 294-10.73
 DESIGN SPEED = 60 MPH
 e = 2.30%
 Lr = 225' (PCC)
 195' (PT)

(RW001) Revised parcels 034,035,082,and 089.
 See Sheet ID for details.
 Added easement labels per VDOT request.
 (RW002) Revised parcels 032 and 035.
 See Sheet ID for details.



REVISION	STATE	ROUTE	STATE	VDOT PROJECT NO.	SHEET NO.
RW001 RW002	VA	495		0495-029-419 C501 RW201	16RW AREA 4

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

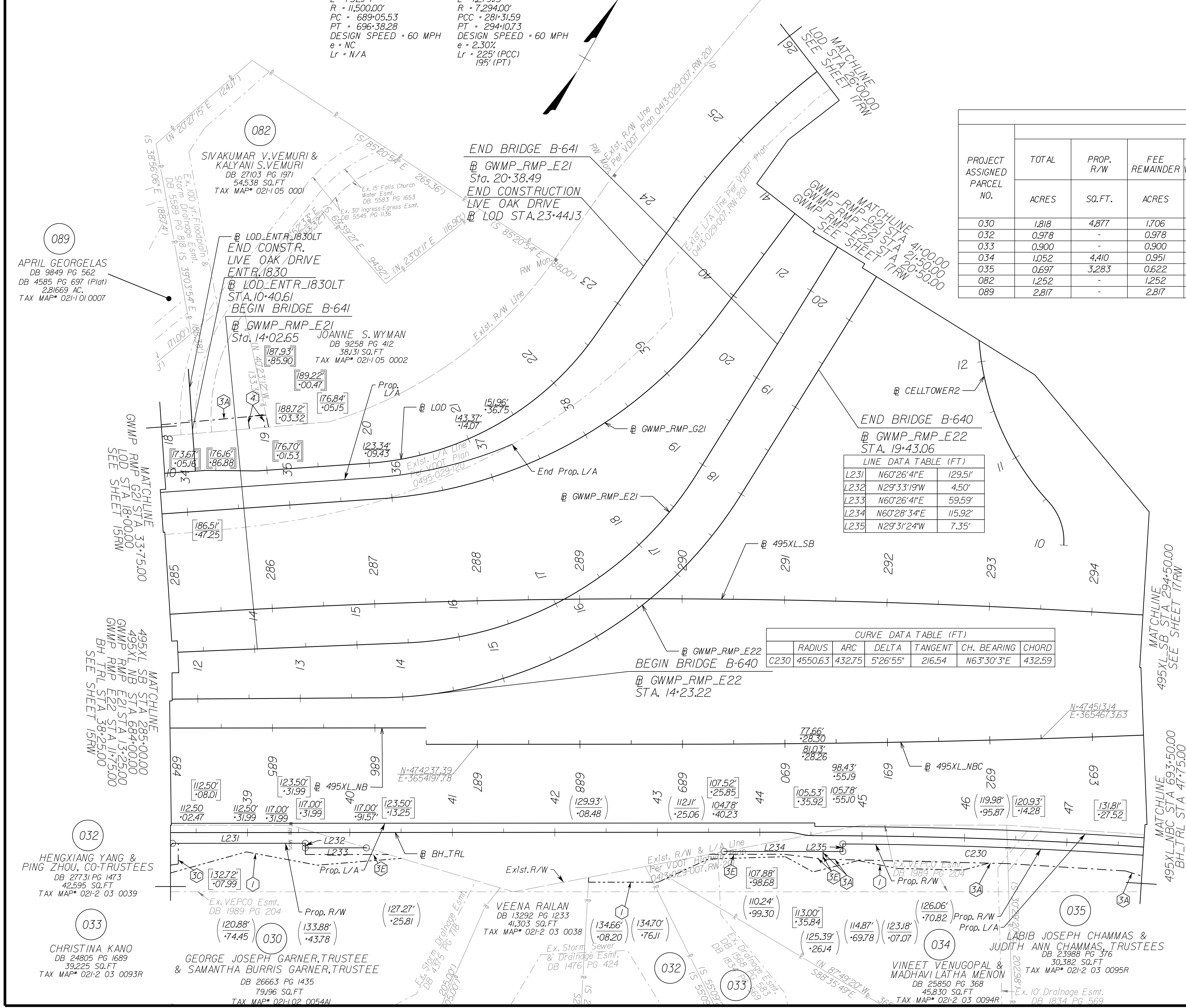
PROJECT ASSIGNED PARCEL NO.	APPROXIMATE AREAS										
	AREA				EASEMENT						
	TOTAL ACRES	PROP. R/W SQ.FT.	FEE REMAINDER ACRES	VDOT UTILITY SQ.FT.	PERMANENT				TEMP. CONSTR.		
				DRAINAGE SQ.FT.	DRAIN.SLOPE SQ.FT.	DRAIN.WALL SQ.FT.	SLOPE SQ.FT.	WALL SQ.FT.	SLOPES SQ.FT.	ENTRANCES & PARKING LOTS SQ.FT.	
030	1.818	4,877	1,706	-	-	-	1,719	-	458	3,466	
032	0.978	-	0,978	-	-	-	-	-	-	612	
033	0.900	-	0,900	-	-	-	-	-	-	173	
034	1.052	4,410	0,951	-	2,702	-	-	-	374	2,006	
035	0.697	3,283	0,622	-	2,798	-	-	-	-	-	
082	1,252	-	1,252	344	2,283	-	-	-	-	107	
089	2,817	-	2,817	385	969	-	-	-	-	885	

LEGEND

IPF/IRF	EXISTING PROPERTY MARKER	00.00'	PROPOSED RIGHT-OF-WAY / LIMITED ACCESS
---	EXISTING PROPERTY LINE	(00.00')	PROPOSED TEMPORARY EASEMENT
---	EXISTING R/W LINE	(00.00')	PROPOSED PERMANENT EASEMENT
---	CONSTRUCTION BASELINE	(12.34)	PROPOSED PERMANENT UTILITY EASEMENT
---	EXISTING PROPERTY MARKER	(00.00')	PROPOSED PERMANENT UTILITY EASEMENT

SET RM-2 (SEE NOTES)

N=515309.05 VDOT PROJECT
 E=3361898.21 COORDINATES



LINE DATA TABLE (FT)

LINE NO.	BEARING	DISTANCE
L231	N60°26'41"E	129.51'
L232	N29°33'19"W	4.50'
L233	N60°26'41"E	59.59'
L234	N60°28'34"E	115.92'
L235	N29°31'24"W	7.35'

CURVE DATA TABLE (FT)

RADIUS	ARC	DELTA	TANGENT	CH. BEARING	CHORD
C230	4550.63	432.75	5'28"55"	N63°30'3"E	432.59

- 1 DENOTES PROP.TEMP. CONSTR.EASE.FOR SLOPES
- 2 DENOTES PROP.TEMP.CONSTR. EASE.FOR ENTRANCES & PARKING LOTS
- 3A DENOTES PROP.PERM. DRAINAGE EASE.
- 3B DENOTES PROP.PERM. DRAINAGE SLOPE EASE.
- 3C DENOTES PROP.PERM. DRAINAGE WALL EASE.
- 3D DENOTES PROP.PERM. SLOPE EASE.
- 3E DENOTES PROP.PERM. WALL EASE.
- 4 DENOTES PROP.VDOT UTILITY EASE.

- GENERAL NOTES:
1. SAID PROPERTY LINES ARE BEST FIT BASED ON COMPILED DATA AND DO NOT REPRESENT A BOUNDARY SURVEY.
 2. ALL AREAS SHOWN ARE APPROXIMATE ONLY.
 3. THIS PLAN SHEET WAS PREPARED WITHOUT THE BENEFIT OF A TITLE REPORT AND MAY NOT SHOW ALL EASEMENTS WHICH MAY AFFECT THE PROPERTY HEREON.
 4. NONE OF THE PROPERTY'S PHYSICAL IMPROVEMENTS ARE SHOWN HEREON.
 5. NO DESIGNATION OR LOCATION OF SUBSURFACE UTILITIES WAS PERFORMED DURING PREPARATION OF THIS PLAN SHEET.
 6. NO CEMETERY SITES WERE OBSERVED ON THE SUBJECT PROPERTY. THIS DOES NOT PRECLUDE THEIR EXISTENCE.
 7. THE SURVEY DATUM IS BASED ON THE TITLED VDOT PROJECT.
 8. MONUMENTATION TO BE SET UPON COMPLETION OF CONSTRUCTION.

SCALE 0 50' 100'	VDOT PROJECT NO. 0495-029-419	SHEET NO. 16RW AREA 4
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APP. FOR ROW

PROJECT MANAGER VDOT - *Ritapal Shah, PE, (703) 259-2362*
 SURVEYED BY, DATE RDA - *Nicholas Kaugall's, LS, (703) 334-0837, 12/2021*
 DESIGN BY RDA - *Darell Fischer, PE, (703) 334-0823*
 SUBSURFACE UTILITY BY, DATE *Accumark - Michael Taylor, LS, (703) 635-3060, 12/2021*

Curve 495XL_NBC_001
 PI = 692+72.03
 DELTA = 3° 39' 02.55" (LT)
 D = 0' 29' 54"
 T = 366.50'
 L = 732.74'
 R = 11,500.00'
 PC = 689+05.53
 PT = 696+38.28
 DESIGN SPEED = 60 MPH
 e = NC
 Lr = N/A

Curve 495XL_SB_011
 PI = 287+72.80
 DELTA = 10° 02' 52.58" (RT)
 D = 0' 47' 08"
 T = 641.22'
 L = 1,279.15'
 R = 7,294.00'
 PCC = 281+31.59
 PT = 294+10.73
 DESIGN SPEED = 60 MPH
 e = 2.30%
 Lr = 225' (PCC)
 195' (PT)

Curve LOD_002
 PI = 21+40.64
 DELTA = 5° 07' 56.71" (LT)
 D = 19' 25' 20"
 T = 141.13'
 L = 263.27'
 R = 295.00'
 PC = 19+99.52
 PT = 22+62.78
 DESIGN SPEED = 25 MPH
 e = 2.00% (TC-5,11 ULS)
 Lr = N/A

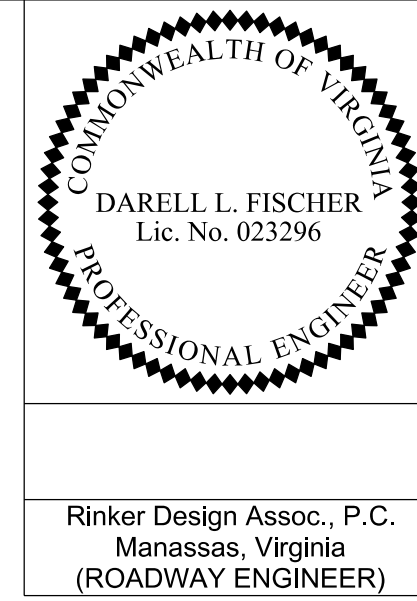
Curve LOD_003
 PI = 31+35.35
 DELTA = 9° 20' 12.51" (RT)
 D = 8' 42' 27"
 T = 735.12'
 L = 1,106.36'
 R = 658.00'
 PC = 24+00.23
 PT = 35+06.59
 DESIGN SPEED = 25 MPH
 e = (MATCH EXISTING)
 Lr = N/A

Curve GWMP_RMP_G21_008
 PI = 37+95.75
 DELTA = 49° 12' 42.32" (LT)
 D = 12' 43' 57"
 T = 206.08'
 L = 386.51'
 R = 450.00'
 PC = 35+89.67
 PT = 39+76.18
 DESIGN SPEED = 30 MPH
 e = 6.40%
 Lr = 137'

Curve GWMP_RMP_G21_009
 PI = 44+56.97
 DELTA = 6° 48' 12.16" (RT)
 D = 10' 13' 53"
 T = 369.28'
 L = 652.93'
 R = 560.00'
 PC = 40+07.69
 PT = 47+40.82
 DESIGN SPEED = 30 MPH
 e = 5.90%
 Lr = 126'

15-A
 P.O.I. = 18+30.05 Live Oak Dr. C.B.L.
 P.O.T. = 10+00.00 Entrance C.B.L.
 Δ = 90°00'00" Rt.

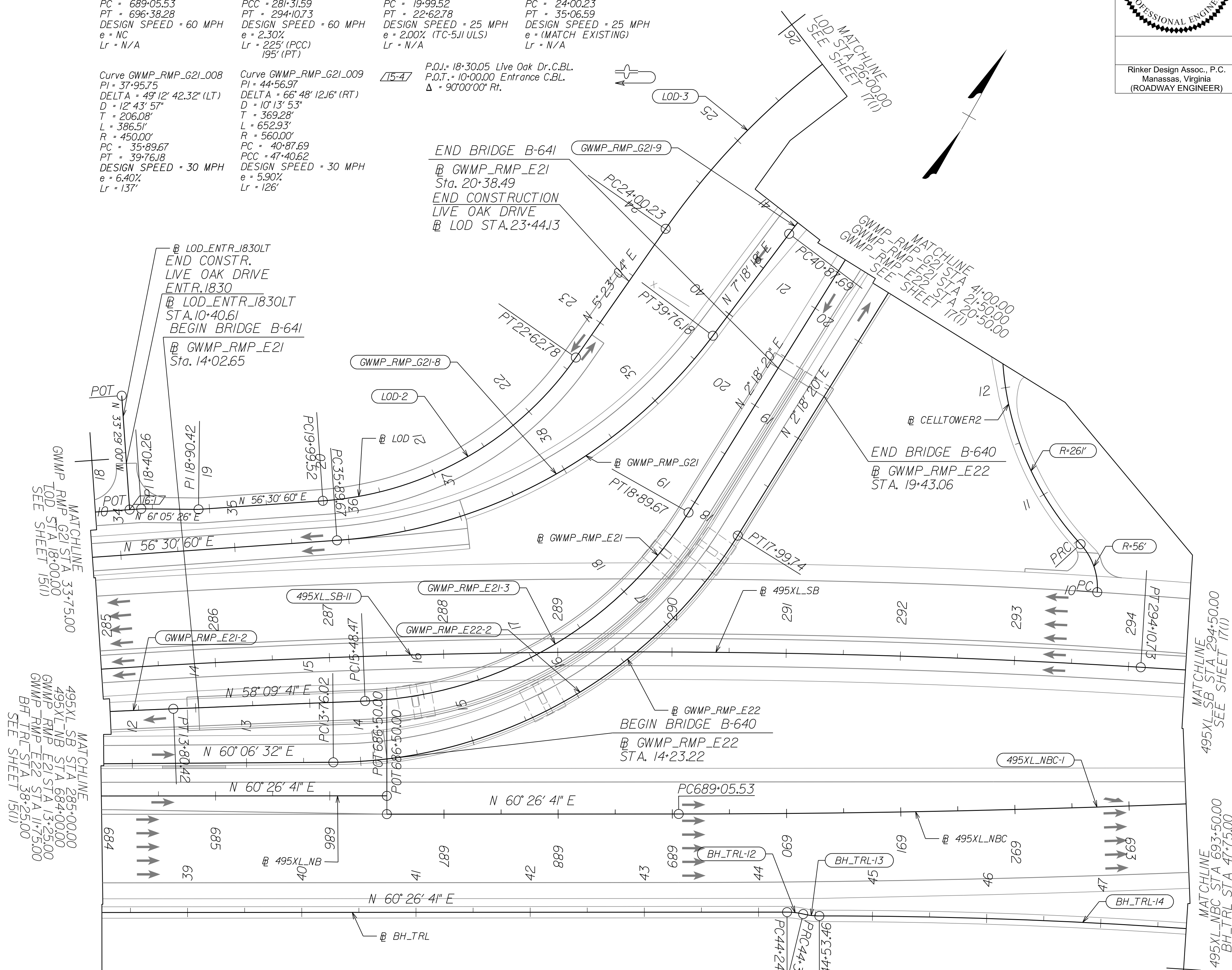
Alignment Data



REVISED	STATE	ROUTE	STATE	VDOT PROJECT NO.	SHEET NO.
	VA	495		0495-029-419 C501 RW201	16(1) AREA 4

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

Rinker Design Assoc., P.C.
 Manassas, Virginia
 (ROADWAY ENGINEER)



Curve GWMP_RMP_E22_002
 PI = 16+07.89
 DELTA = 57° 48' 12.02" (LT)
 D = 13' 38' 31"
 T = 231.87'
 L = 423.72'
 R = 420.00'
 PC = 13+76.02
 PT = 17+99.74
 DESIGN SPEED = 30 MPH
 e = 6.70%
 Lr = 143'

Curve GWMP_RMP_E21_002
 PI = 11+26.97
 DELTA = 2° 54' 17.65" (RT)
 D = 0' 34' 23"
 T = 253.55'
 L = 507.00'
 R = 10,000.00'
 PCC = 8+73.42
 PT = 13+80.42
 DESIGN SPEED = 30 MPH
 e = NC
 Lr = N/A

Curve GWMP_RMP_E21_003
 PI = 17+34.00
 DELTA = 55° 51' 20.33" (LT)
 D = 16' 22' 13"
 T = 185.53'
 L = 341.20'
 R = 350.00'
 PCC = 15+48.47
 PT = 18+89.67
 DESIGN SPEED = 30 MPH
 e = 7.20%
 Lr = 154'

Curve BH_TRL12
 PI = 44+32.09
 DELTA = 13° 36' 40.71" (RT)
 D = 95° 29' 35"
 T = 7.17'
 L = 14.27'
 R = 60.00'
 PC = 44+24.93
 PRC = 44+39.19
 DESIGN SPEED = 18 MPH
 e = 2.00%
 Lr = N/A

Curve BH_TRL13
 PI = 44+46.36
 DELTA = 13° 37' 48.79" (LT)
 D = 95° 29' 35"
 T = 7.17'
 L = 14.27'
 R = 60.00'
 PRC = 44+53.46
 DESIGN SPEED = 18 MPH
 e = 2.00%
 Lr = N/A

Curve BH_TRL14
 PI = 46+84.32
 DELTA = 5° 47' 53.96" (RT)
 D = 11' 15' 25"
 T = 230.86'
 L = 461.33'
 R = 4,558.63'
 PRC = 44+53.46
 PCC = 49+14.79
 DESIGN SPEED = 18 MPH
 e = 2.00%
 Lr = N/A

REFERENCES
 (PROFILES, DETAIL & DRAINAGE DESCRIPTION SHEETS, ETC.)

Survey Control Data Sheets	1F Thru 1F14
Existing Drainage Descriptions	1F15 Thru 1F19
Construction Geometrics	1G Thru 1G4
Erosion Controls PH1 & PH2	1N16, 1N16S
Typical Sections	2A Thru 2B(13)
Drainage Descriptions	2K Thru 2K16
Design Legend	22
Roadway Plan Sheet	16
Drainage Plan Sheet	16DRW
Right of Way Plan Sheet	16RW
Profile 1-495 NB	16A
Profile 1-495 SB	16B
Profile Connections	16C Thru 16I

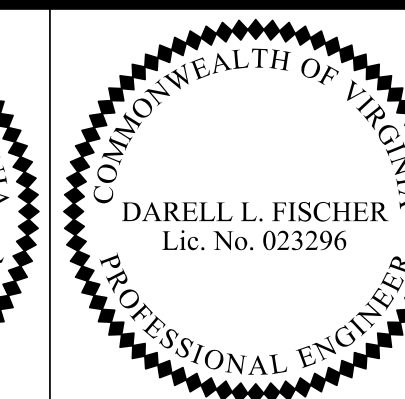
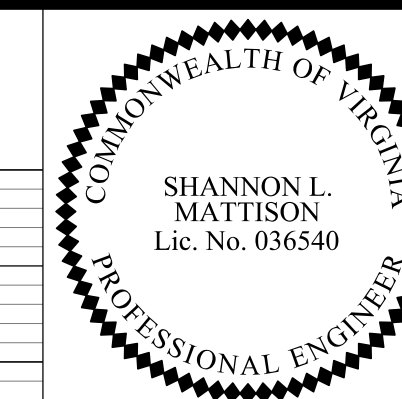
SCALE	VDOT PROJECT NO.	SHEET NO.
0 50' 100'	0495-029-419	16(1) AREA 4

APPROVED FOR CONSTRUCTION

NOVA DISTRICT

PROJECT MANAGER_VDOT - Rimpal Stab PE (703) 259-2362
SURVEYED BY_BDA - Nicolas Kougoullis LS (703) 334-0837 12/2021
DESIGN BY_BDA - Darell Fischer PE (703) 334-0823
SUBSURFACE UTILITY BY_DATE Accumark - Michael Taylor LS (703) 635-3060 12/2021

495 Express Lanes Northbound



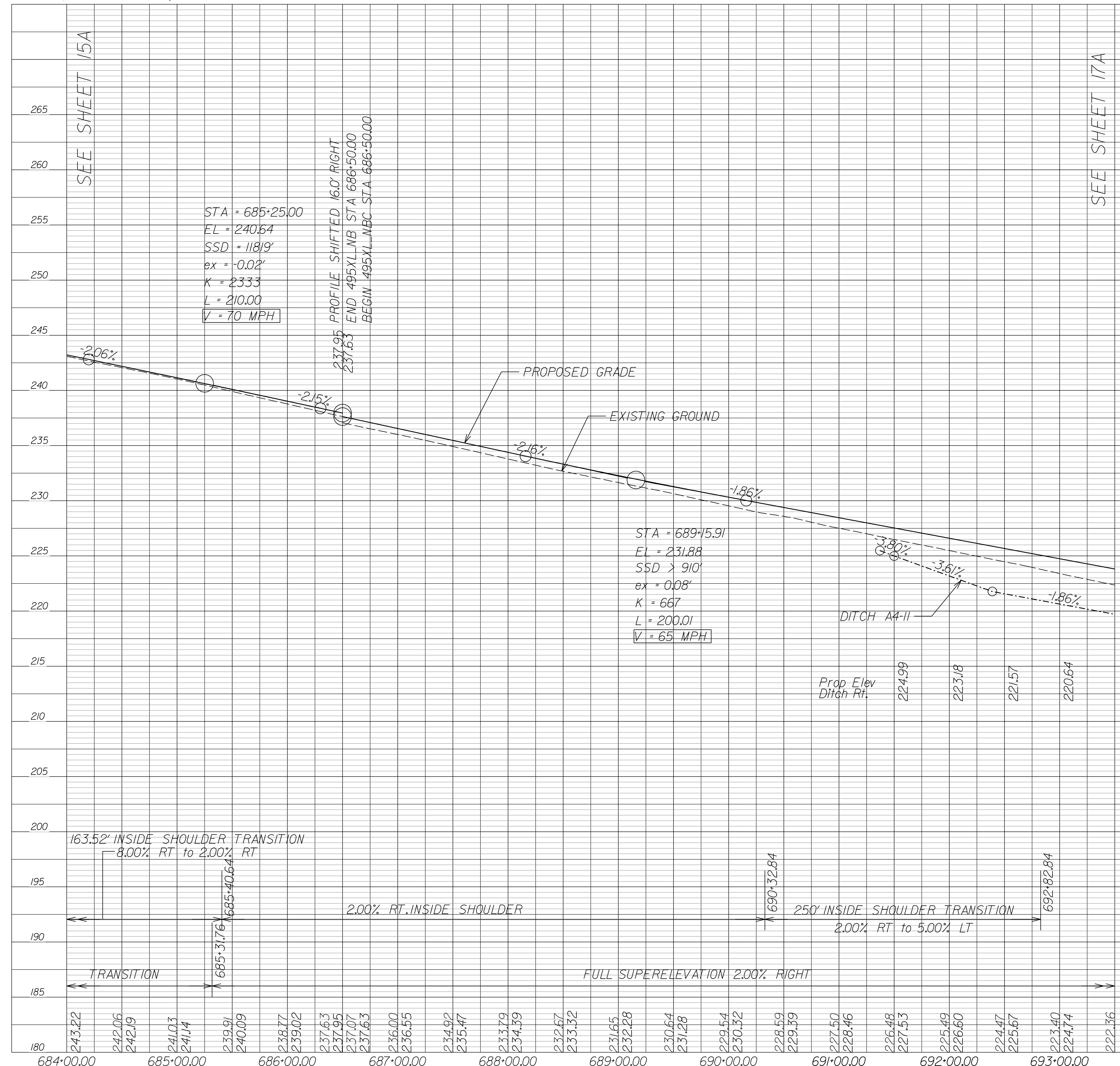
REVISED	STATE	ROUTE	STATE PROJECT	SHEET NO
	VA.	495	0495-029-419 C501 RW201	16A AREA 4

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

Rinker Design Assoc., P.C.
Manassas, Virginia
(HYDRAULICS ENGINEER)

Rinker Design Assoc., P.C.
Manassas, Virginia
(ROADWAY ENGINEER)

265
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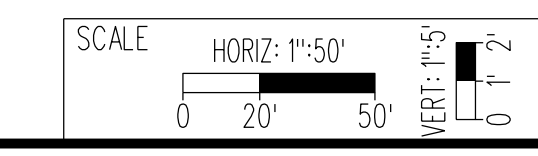


SEE SHEET 15A

SEE SHEET 17A

NOVA DISTRICT

10/26/2022



VDOT PROJECT NO. 0495-029-419
SHEET NO. 16A
AREA 4

APPROVED FOR CONSTRUCTION

PROJECT MANAGER_VDOT - Rimpal Stab PE (703) 259-2362
SURVEYED BY_DATE - BDA - Nicholas Kougoullis LS (703) 334-0837 J2/2021
DESIGN BY_DATE - DARELL Fischer PE (703) 334-0823
SUBSURFACE UTILITY BY_DATE - Michael Taylor LS (703) 635-3060 J2/2021

495 Express Lanes Southbound

SHANNON L. MATTISON
Lic. No. 036540
PROFESSIONAL ENGINEER

DARELL L. FISCHER
Lic. No. 023296
PROFESSIONAL ENGINEER

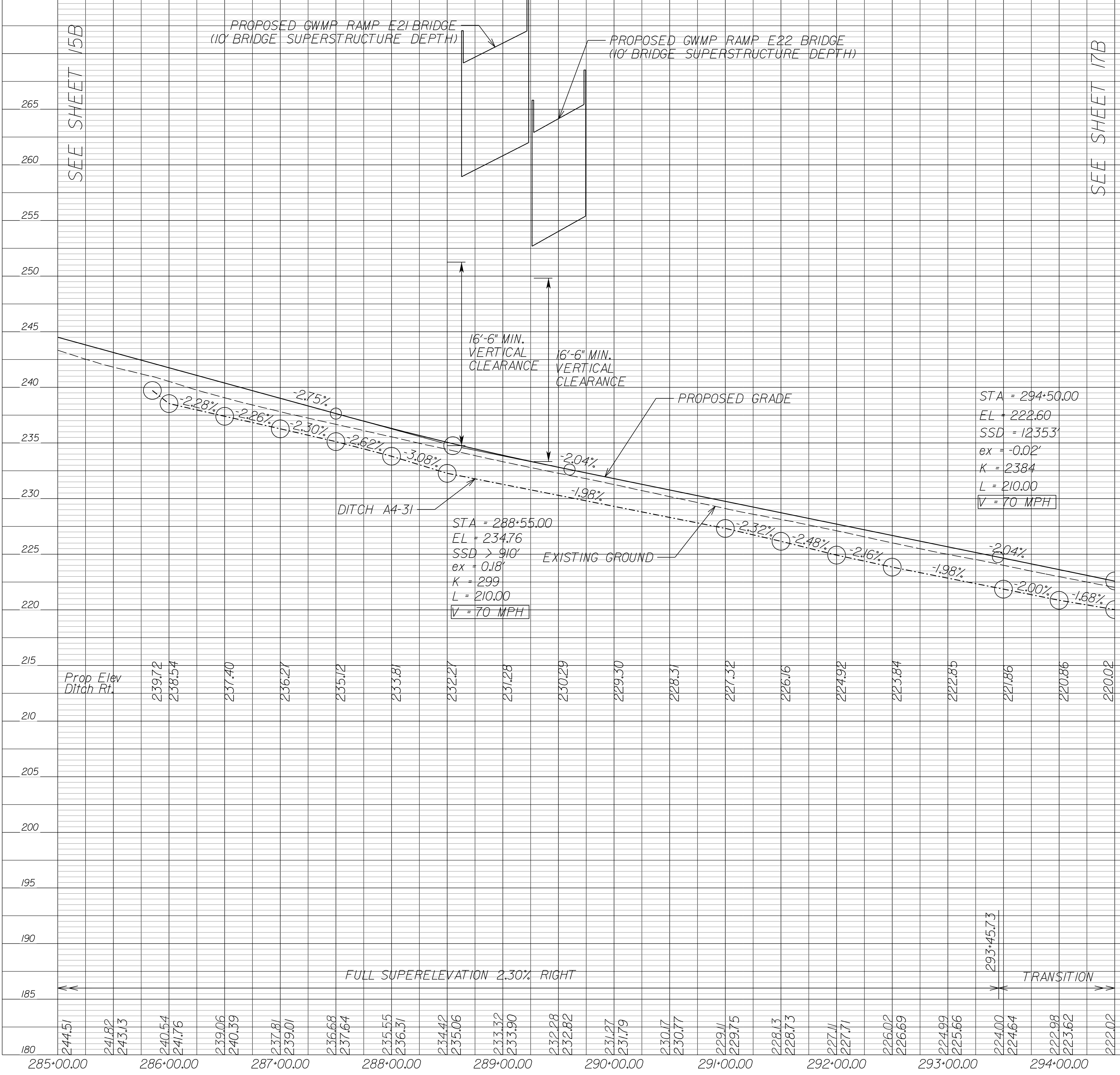
Rinker Design Assoc., P.C.
Manassas, Virginia
(HYDRAULICS ENGINEER)

Rinker Design Assoc., P.C.
Manassas, Virginia
(ROADWAY ENGINEER)

REVISED	STATE	ROUTE	STATE PROJECT	SHEET NO.
	VA.	495	0495-029-419 C501 RW201	16B AREA 4

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

					265
					260
					255
					250
					245
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					185
					180



NOVA DISTRICT

10/26/2022

SCALE HORIZ: 1"=50'
VERT: 1"=5'

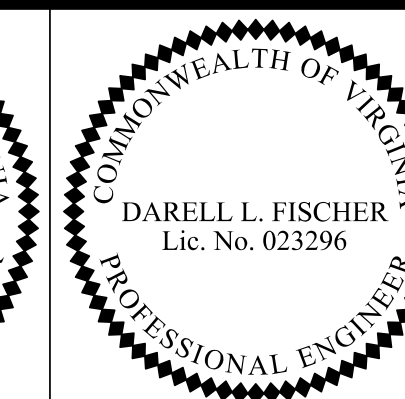
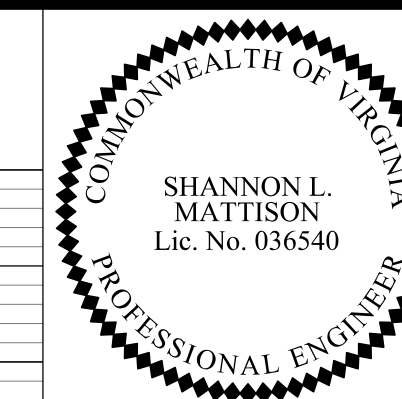
VDOT PROJECT NO. 0495-029-419

SHEET NO. 16B AREA 4

APPROVED FOR CONSTRUCTION

PROJECT MANAGER_VDOT - Rimpal Stab PE (703) 259-2362
SURVEYED BY_DATE - BDA - Nicholas Kougoullis LS (703) 334-0837 J2/2021
DESIGN BY_BDA - Darell Fischer PE (703) 334-0823
SUBSURFACE UTILITY BY_DATE - Accumark - Michael Taylor LS (703) 635-3060 J2/2021

George Washington Memorial Pkwy Ramp G2I

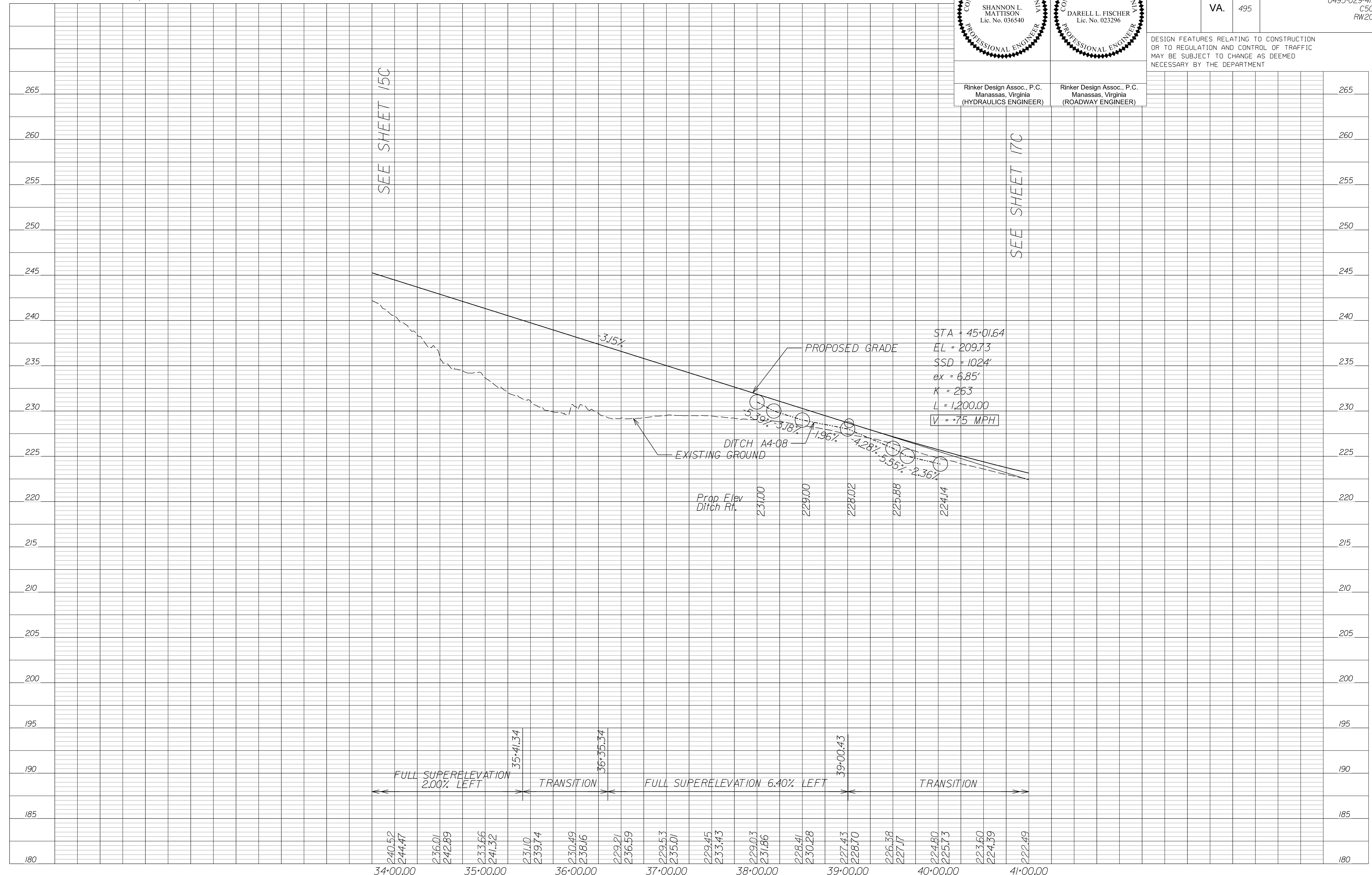


Rinker Design Assoc., P.C.
Manassas, Virginia
(HYDRAULICS ENGINEER)

Rinker Design Assoc., P.C.
Manassas, Virginia
(ROADWAY ENGINEER)

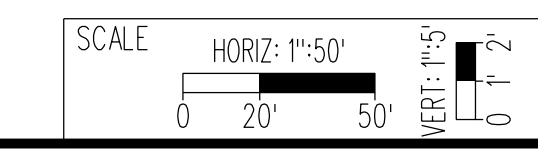
REVISED	STATE	ROUTE	STATE PROJECT	SHEET NO
	VA.	495	0495-029-419 C501 RW201	16C AREA 4

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



NOVA DISTRICT

10/26/2022

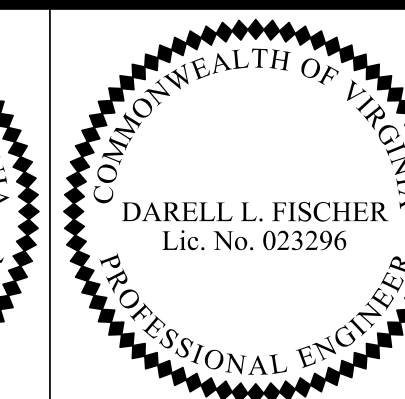
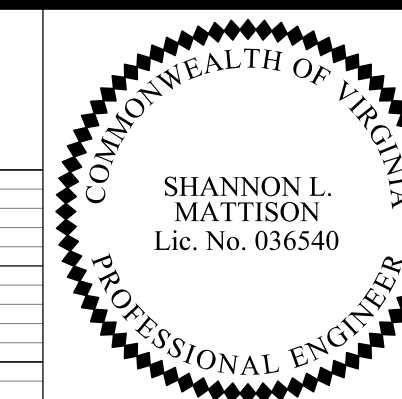


VDOT PROJECT NO.
0495-029-419
SHEET NO.
16C
AREA 4

APPROVED FOR CONSTRUCTION

PROJECT MANAGER_VDOT - Rimpal Stab, P.E. (703) 259-2362
SURVEYED BY_DATE - BDA - Nicholas Kougoulis, LS (703) 334-0837, 12/2/2021
DESIGN BY_BDA - Darell L Fischer, P.E. (703) 334-0823
SUBSURFACE UTILITY BY_DATE Accumark - Michael Taylor, LS (703) 635-3060, 12/2/2021

George Washington Memorial Pkwy Ramp E21

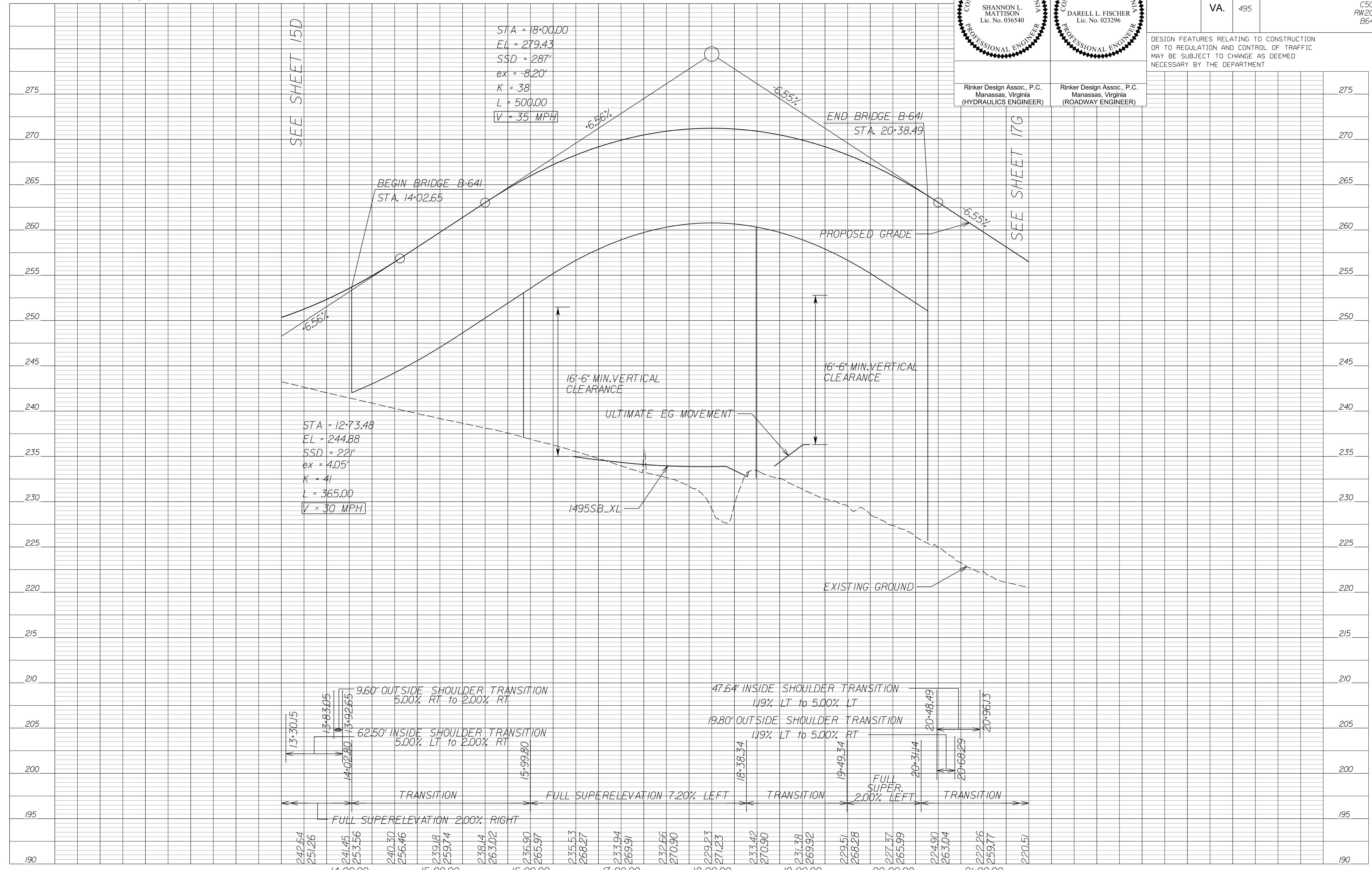


REVISED	STATE	ROUTE	STATE PROJECT	SHEET NO
	VA.	495	0495-029-419 C501 RW201 B641	16D AREA 4

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

Rinker Design Assoc., P.C.
Manassas, Virginia
(HYDRAULICS ENGINEER)

Rinker Design Assoc., P.C.
Manassas, Virginia
(ROADWAY ENGINEER)

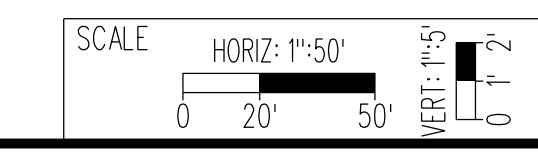


SEE SHEET 15D

SEE SHEET 17G

NOVA DISTRICT

10/26/2022

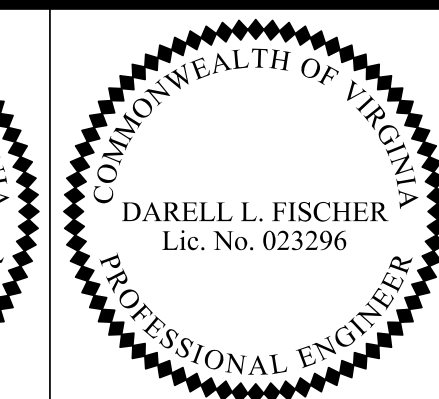
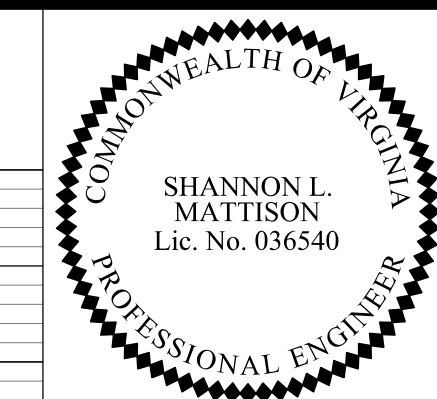


VDOT PROJECT NO. 0495-029-419
SHEET NO. 16D
AREA 4

APPROVED FOR CONSTRUCTION

PROJECT MANAGER_VDOT - Rimal Stab PE (703) 259-2362
SURVEYED BY_DATE - BDA - Nicolas Kougoullis LS (703) 334-0837 12/2021
DESIGN BY_BDA - Darel Fischer PE (703) 334-0823
SUBSURFACE UTILITY BY_DATE Accumar - Michael Taylor LS (703) 635-3060 12/2021

George Washington Memorial Pkwy Ramp E22



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(HYDRAULICS ENGINEER)

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Manassas, Virginia
(ROADWAY ENGINEER)

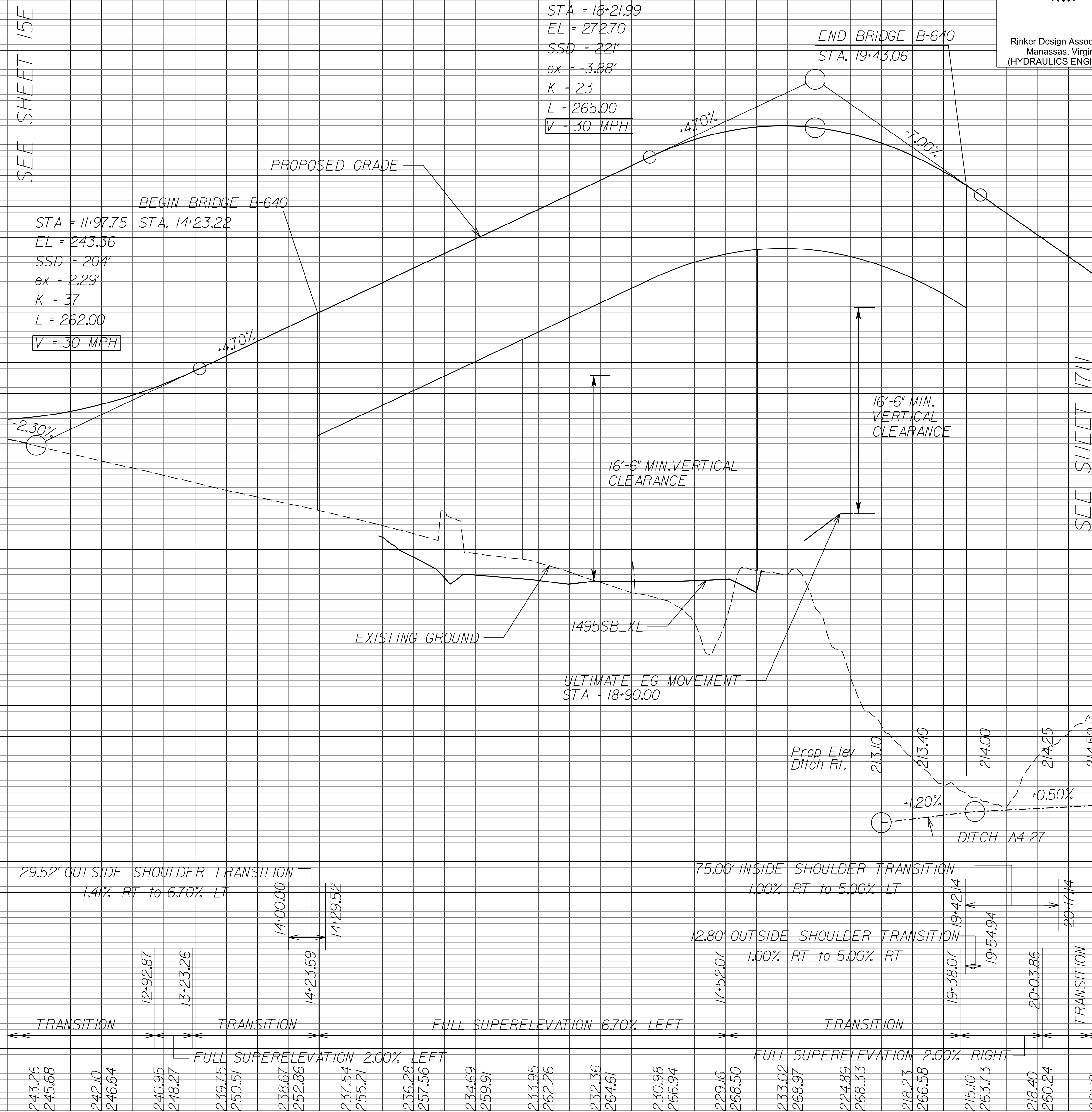
REVISED	STATE	ROUTE	STATE PROJECT	SHEET NO.
	VA.	495	0495-029-419 C501 RW201 B640	16E AREA 4

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

	275
	270
	265
	260
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	190

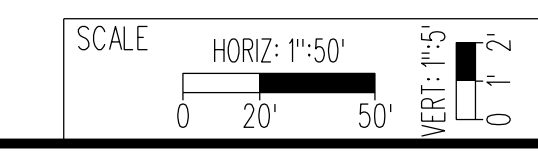
SEE SHEET 15E

SEE SHEET 17H



NOVA DISTRICT

10/26/2022

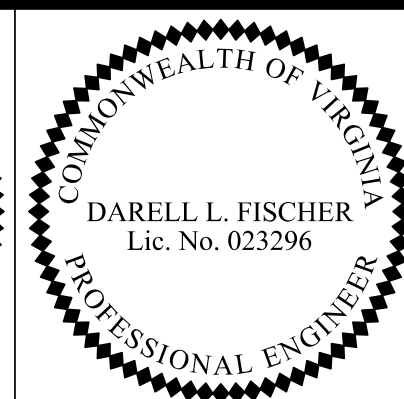
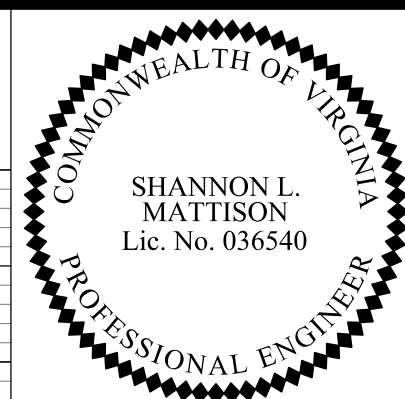


VDOT PROJECT NO. 0495-029-419
SHEET NO. 16E
AREA 4

APPROVED FOR CONSTRUCTION

PROJECT MANAGER_VDOT - Rimpal Stab PE, (703) 259-2362
SURVEYED BY_DATE - BDA - Nicholas Kougoulis LS, (703) 334-0837, 12/2021
DESIGN BY_BDA - Darell Fischer PE, (703) 334-0823
SUBSURFACE UTILITY BY_DATE Accumark - Michael Taylor LS, (703) 635-3060, 12/2021

Balls Hill Shared Use Path

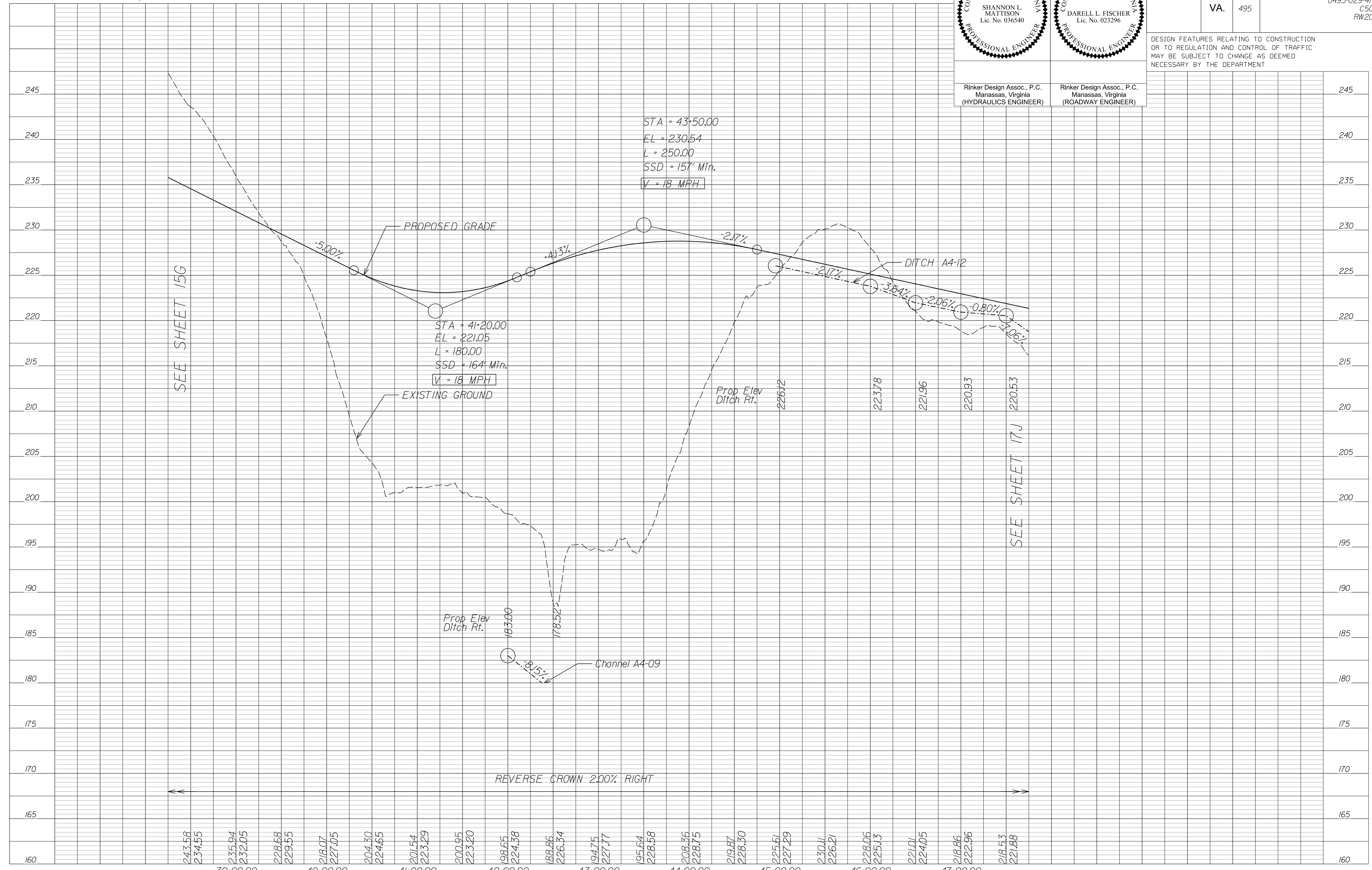


REVISED	STATE	ROUTE	STATE PROJECT	SHEET NO.
	VA.	495	0495-029-419 C501 RW201	16F AREA 4

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

Rinker Design Assoc., P.C.
Manassas, Virginia
(HYDRAULICS ENGINEER)

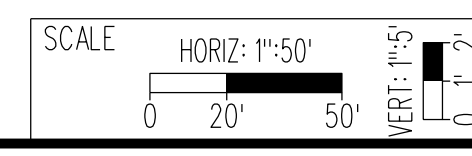
Rinker Design Assoc., P.C.
Manassas, Virginia
(ROADWAY ENGINEER)



NOVA DISTRICT

10/26/2022

APPROVED FOR CONSTRUCTION

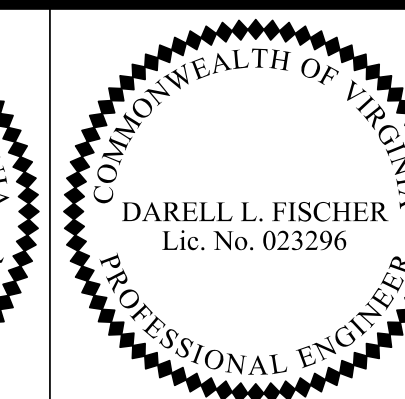
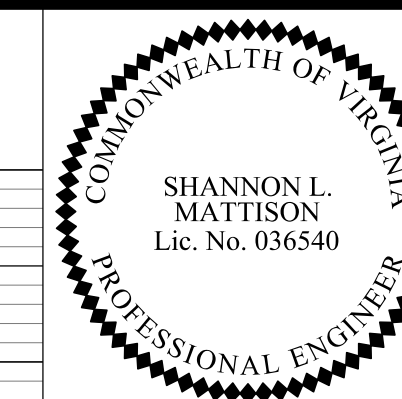


VDOT PROJECT NO.
0495-029-419

SHEET NO.
16F
AREA 4

PROJECT MANAGER_VDOT - Rimal Stab PE (703) 259-2362
SURVEYED BY_DATE - BDA - Nicolas Kougoullis LS (703) 334-0837 J2/2021
DESIGN BY_BDA - Darell Fischer PE (703) 334-0823
SUBSURFACE UTILITY BY_DATE Accumark - Michael Taylor LS (703) 635-3060 J2/2021

Live Oak Drive



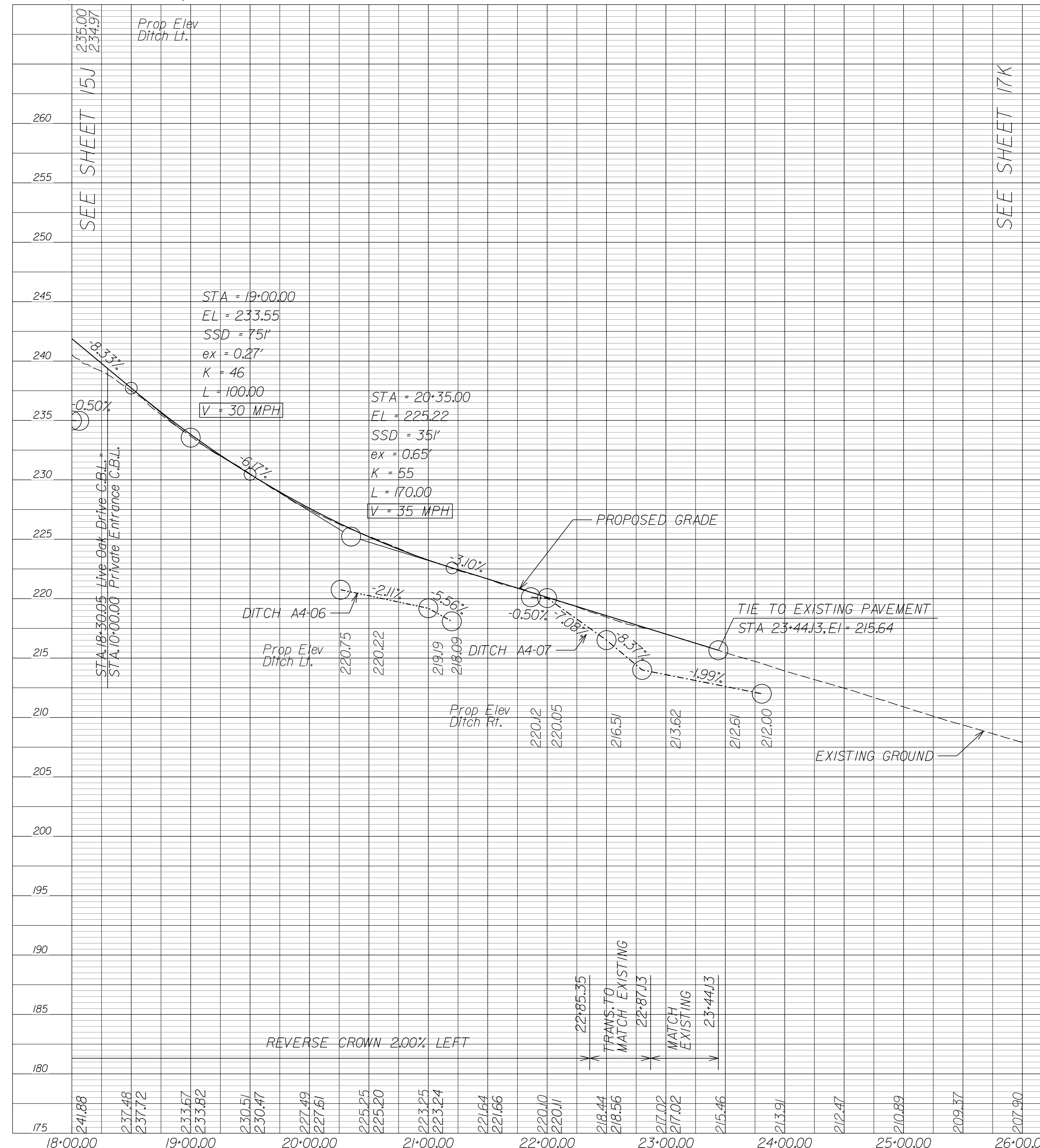
REVISED	STATE	ROUTE	STATE PROJECT	SHEET NO
	VA.	495	0495-029-419 C501 RW201	16G AREA 4

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

Rinker Design Assoc., P.C.
Manassas, Virginia
(HYDRAULICS ENGINEER)

Rinker Design Assoc., P.C.
Manassas, Virginia
(ROADWAY ENGINEER)

	260
	255
	250
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	185
	180
	175

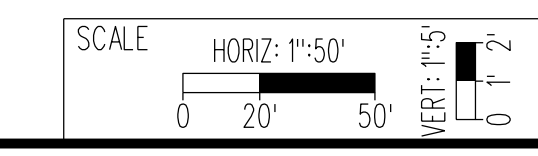


SEE SHEET 15J

SEE SHEET 17K

NOVA DISTRICT

10/26/2022

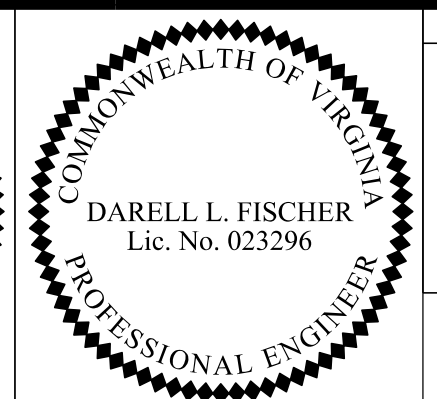
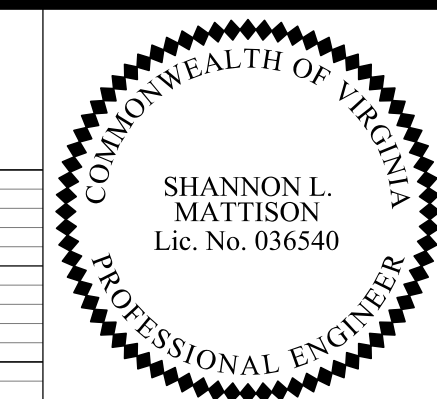


VDOT PROJECT NO. 0495-029-419
SHEET NO. 16G
AREA 4

APPROVED FOR CONSTRUCTION

PROJECT MANAGER_VDOT - Rimpal Stab PE,(703) 259-2362
SURVEYED BY, DATE_BDA - Nicolas Kougoullis LS,(703) 334-0837,12/2021
DESIGN BY_BDA - Darell Fischer PE,(703) 334-0823
SUBSURFACE UTILITY BY, DATE_Accumark - Michael Taylor LS,(703) 635-3060,12/2021

Private Entrances

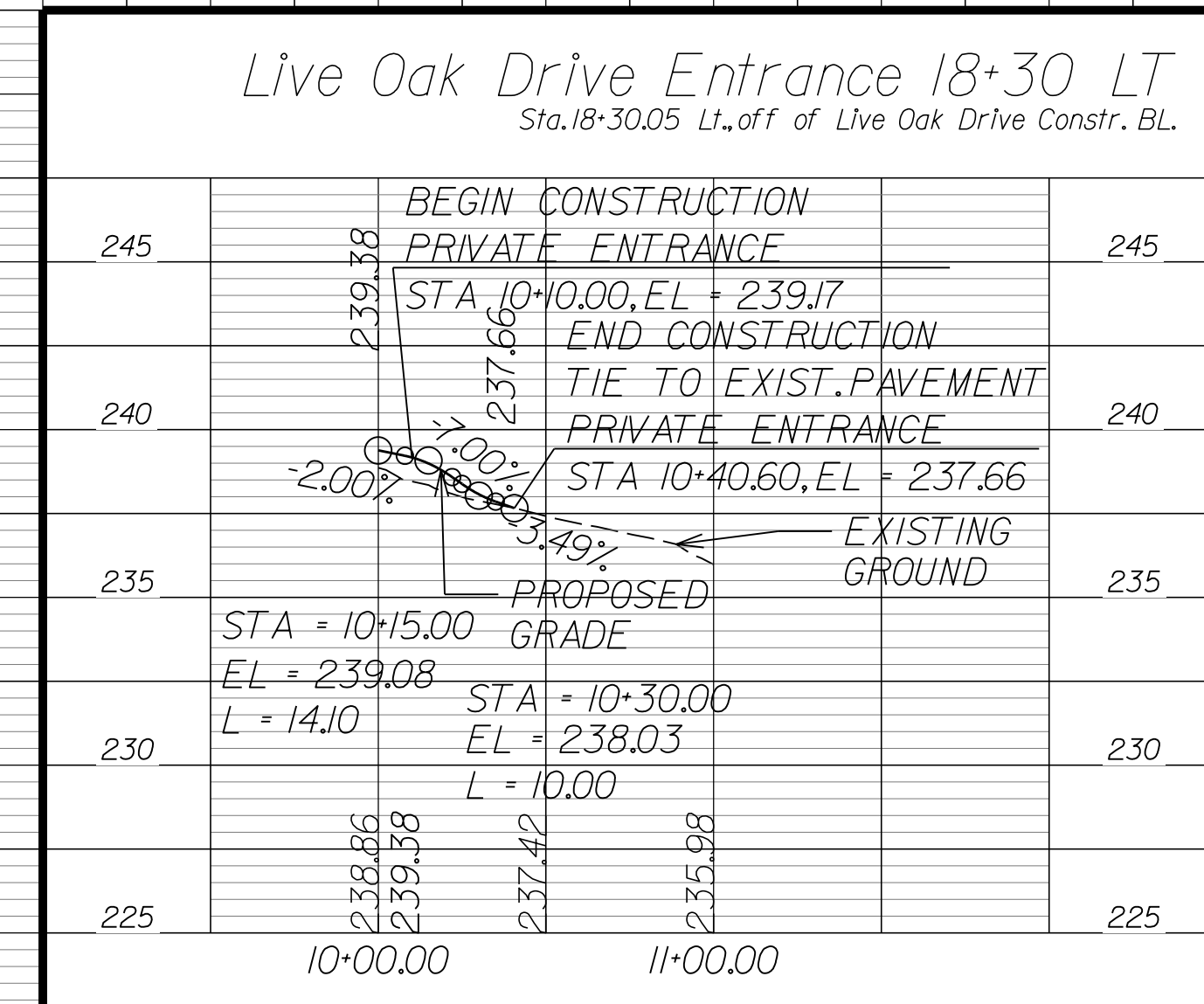
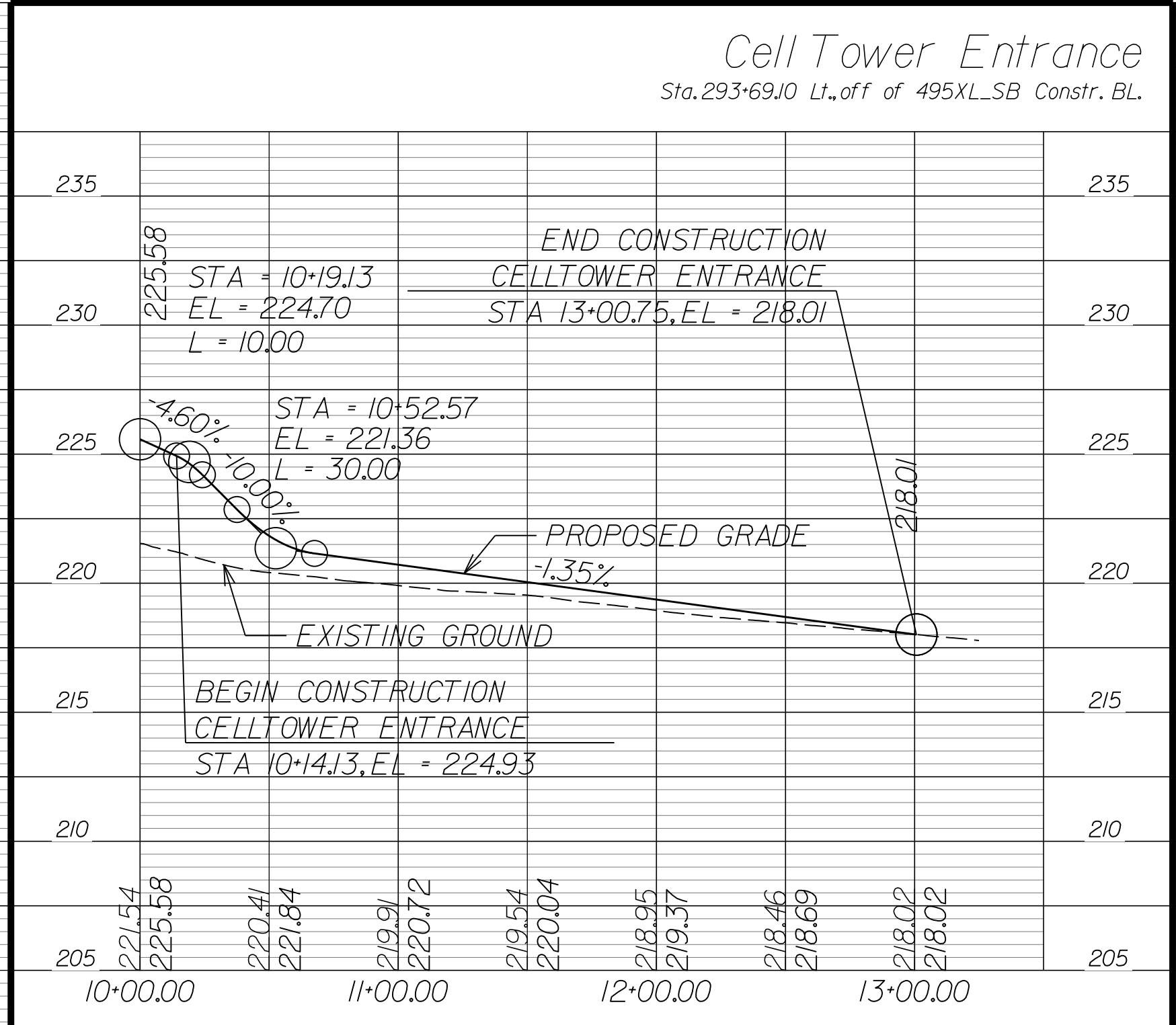


Rinker Design Assoc., P.C.
Manassas, Virginia
(HYDRAULICS ENGINEER)

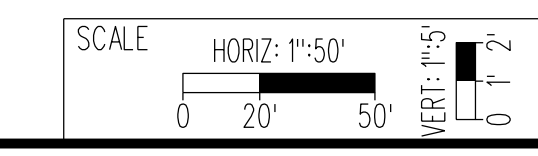
Rinker Design Assoc., P.C.
Manassas, Virginia
(ROADWAY ENGINEER)

REVISED	STATE	ROUTE	STATE PROJECT	SHEET NO.
	VA.	495	0495-029-419 C501 RW201	16H AREA 4

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



NOVA DISTRICT



APPROVED FOR CONSTRUCTION

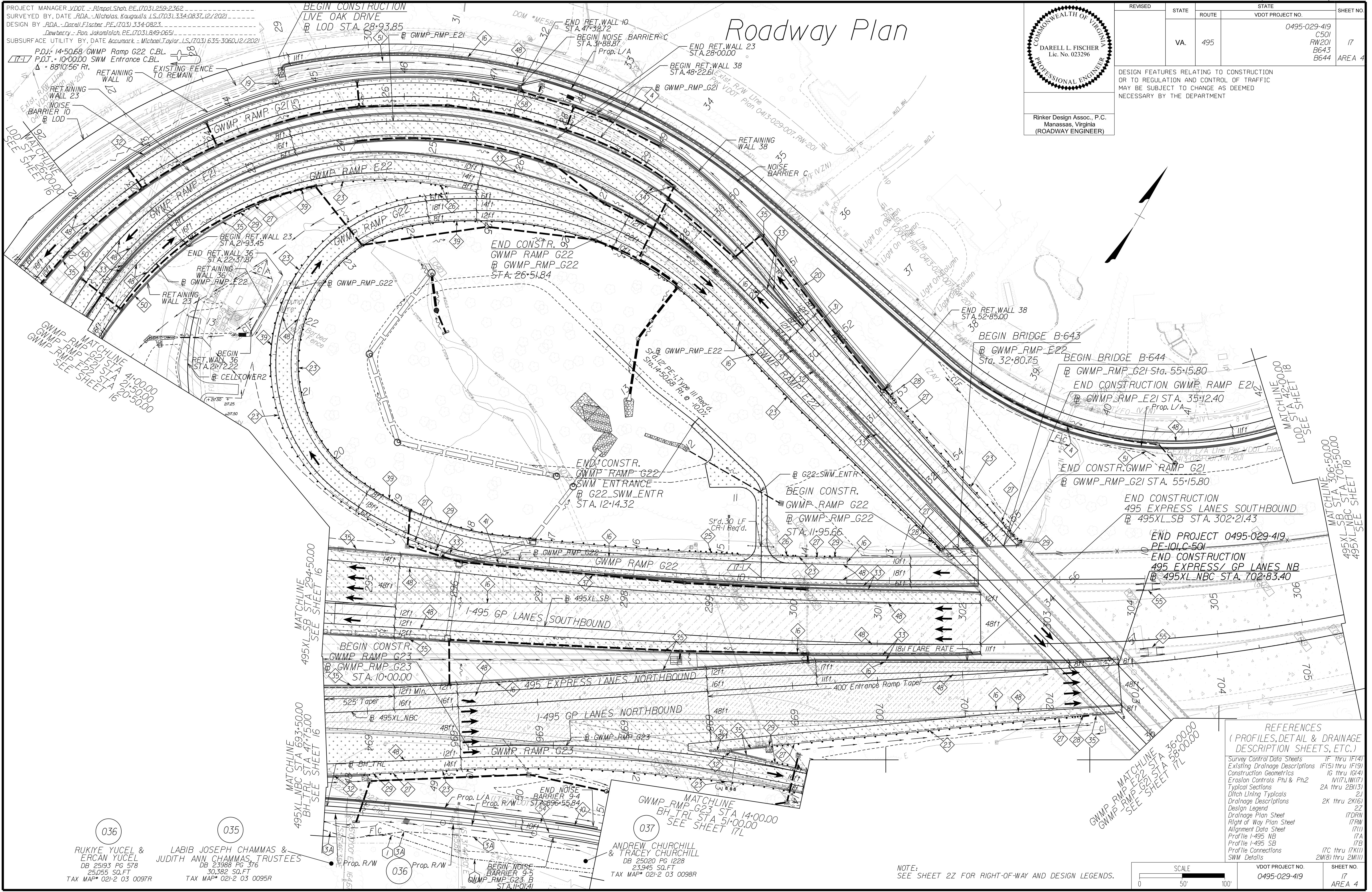
PROJECT MANAGER_VDOT - Rupal Shah, PE, (703) 259-2362
SURVEYED BY, DATE_RDA - Nicholas Kaugauls, LS, (703) 334-0837, 12/2021
DESIGN BY_RDA - Darrell Fischer, PE, (703) 334-0823
Dewberry - Ron Jakomilich, PE, (703) 849-0651
SUBSURFACE UTILITY BY, DATE_Accumark - Michael Taylor, LS, (703) 635-3060, 12/2021
P.O.I. - 14-5068 GWMP Ramp G22 C.B.L.
P.O.T. - 10+00.00 SWM Entrance C.B.L.
Δ = 88°10'56" Rt.

DARELL L. FISCHER
Lic. No. 023296

Rinker Design Assoc., P.C.
Manassas, Virginia
(ROADWAY ENGINEER)

REVISED	STATE	ROUTE	STATE	VDOT PROJECT NO.	SHEET NO.
	VA.	495		0495-029-419 C501 RW201 B643 B644	17 AREA 4

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



APPROVED FOR CONSTRUCTION

NOVA DISTRICT

10/26/2022

036 RUKIYE YUCEL & ERCAN YUCEL
DB 25193 PG 578
25,055 SQ.FT
TAX MAP# 021-2 03 0097R

035 LABIB JOSEPH CHAMMAS & JUDITH ANN CHAMMAS, TRUSTEES
DB 23989 PG 376
30,382 SQ.FT
TAX MAP# 021-2 03 0095R

037 ANDREW CHURCHILL & TRACEY CHURCHILL
DB 25020 PG 1228
23,945 SQ.FT
TAX MAP# 021-2 03 0098R

NOTE:
SEE SHEET 2Z FOR RIGHT-OF-WAY AND DESIGN LEGENDS.

PROJECT MANAGER VDOT - Rapid Rehab, PE, (703) 259-2362
 SURVEYED BY, DATE RDA - Nicholas, Kougoullis, LS, (703) 334-0837, 12/2021
 DESIGN BY RDA - Darrell Fischer, PE, (703) 334-0823
 SUBSURFACE UTILITY BY, DATE Accumark - Michael Taylor, LS, (703) 635-3060, 12/2021

BEGIN CONSTRUCTION
 LIVE OAK DRIVE
 LOD STA 28+93.85

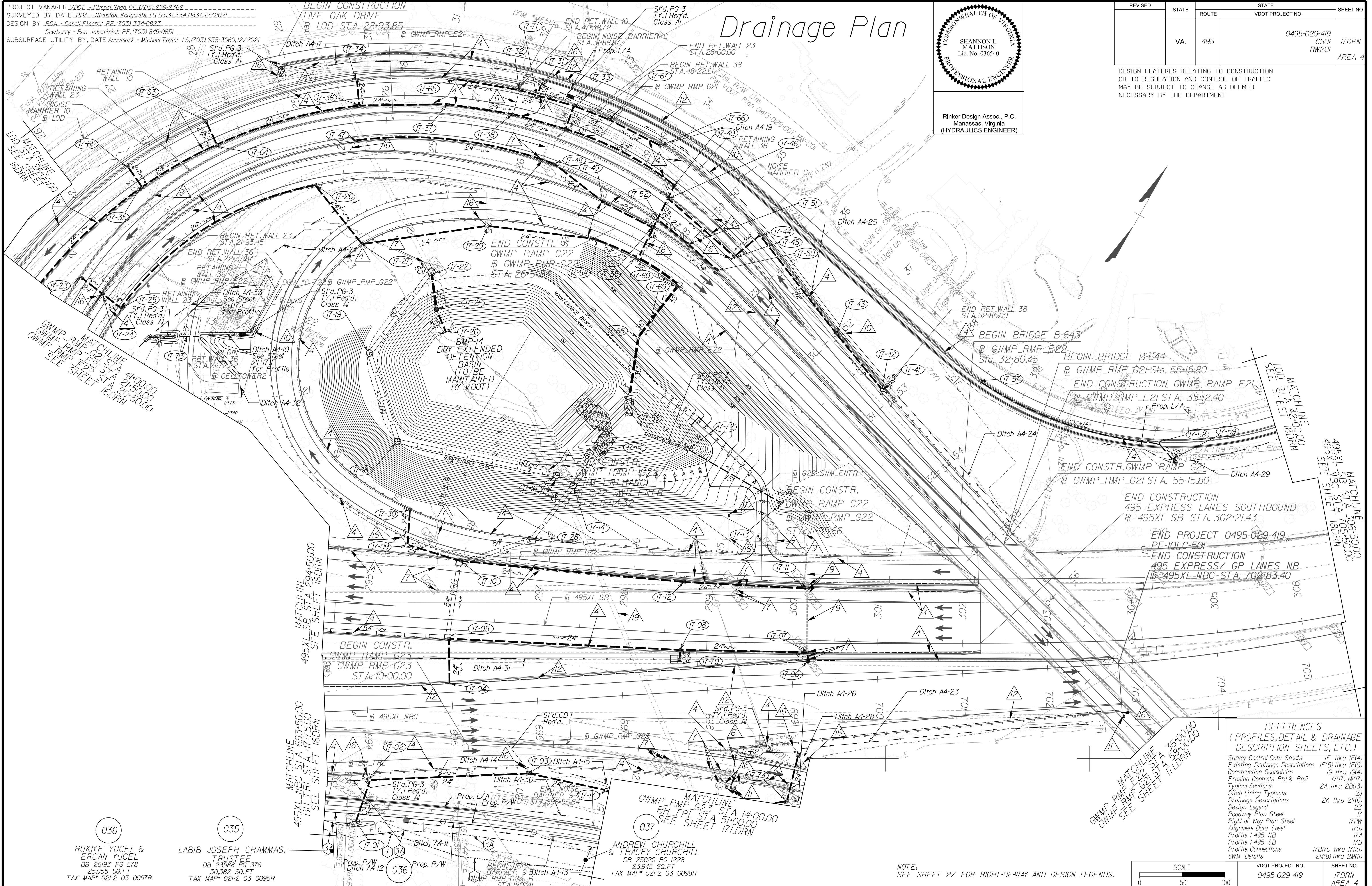
Drainage Plan



Rinker Design Assoc., P.C.
 Manassas, Virginia
 (HYDRAULICS ENGINEER)

REVISED	STATE	ROUTE	STATE	VDOT PROJECT NO.	SHEET NO.
	VA.	495		0495-029-419 C501 RW201	17DRN AREA 4

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



NOVA DISTRICT

036 RUKIY YUCEL & ERCAN YUCEL
 TRUSTEE
 DB 25193 PG 578
 25,055 SQ.FT
 TAX MAP# 021-2 03 0097R

035 LABIB JOSEPH CHAMMAS,
 TRUSTEE
 DB 23988 PG 376
 30,382 SQ.FT
 TAX MAP# 021-2 03 0095R

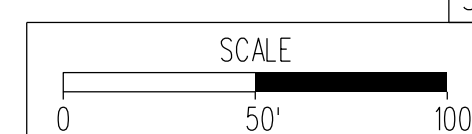
037 ANDREW CHURCHILL & TRACEY CHURCHILL
 DB 25020 PG 1228
 23,945 SQ.FT
 TAX MAP# 021-2 03 0098R

REFERENCES
 (PROFILES, DETAIL & DRAINAGE DESCRIPTION SHEETS, ETC.)

Survey Control Data Sheets	1F thru 1F(4)
Existing Drainage Descriptions	1F(5) thru 1F(9)
Construction Geometrics	1G thru 1G(4)
Erosion Controls Ph1 & Ph2	1H(1), 1H(7)
Typical Sections	2A thru 2B(13)
Ditch Lining Typicals	2J
Drainage Descriptions	2K thru 2K(6)
Design Legend	2Z
Roadway Plan Sheet	17
Right of Way Plan Sheet	17RW
Alignment Data Sheet	17(1)
Profile 1-495 NB	17A
Profile 1-495 SB	17B
Profile Connections	17B(7) thru 17K(1)
SWM Details	2M(8) thru 2M(11)

VDOT PROJECT NO. 0495-029-419
 SHEET NO. 17DRN
 AREA 4

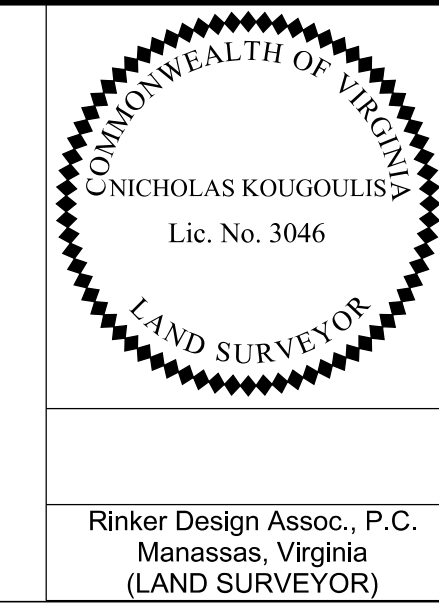
NOTE:
 SEE SHEET 2Z FOR RIGHT-OF-WAY AND DESIGN LEGENDS.



APPROVED FOR CONSTRUCTION

PROJECT MANAGER_VDOT - Bitrapal, S. PE, (703) 259-2362
 SURVEYED BY, DATE_BDA - Nicholas, Kougoulis, LS, (703) 334-0837, 1/2019
 DESIGN BY_BDA - Darrell, Elischer, PE, (703) 334-0823
 SUBSURFACE UTILITY BY, DATE_Accumark - Mitchell, Taylor, LS, (703) 635-3060, 12/2021

(RW001) Revised parcels 035 and 036. See Sheet ID for details. Added easement labels per VDOT request.
 (RW002) Revised parcel 035. See Sheet ID for details.

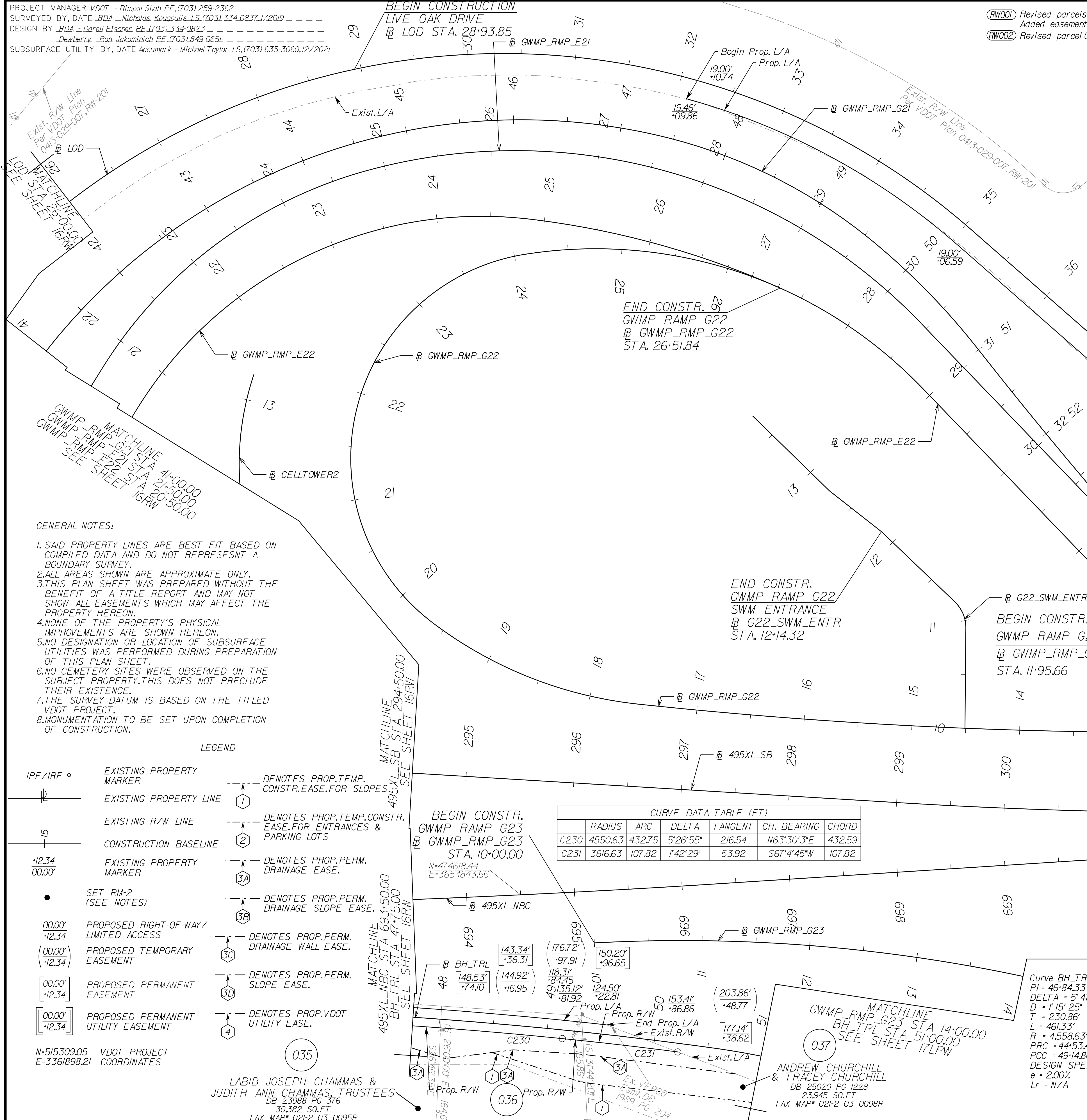


REVISION	STATE	ROUTE	STATE	VDOT PROJECT NO.	SHEET NO.
RW001 RW002	VA	495		0495-029-419 C501 RW201	17RW AREA 4

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

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 Manassas, Virginia
 (LAND SURVEYOR)

PROJECT ASSIGNED PARCEL NO.	APPROXIMATE AREAS									
	TOTAL ACRES	PROP. R/W SQ.FT.	FEE REMAINDER ACRES	VDOT UTILITY SQ.FT.	EASEMENT PERMANENT				TEMP. CONSTR.	
					DRAINAGE SQ.FT.	DRAIN. SLOPE SQ.FT.	DRAIN. WALL SQ.FT.	SLOPE SQ.FT.	SLOPES SQ.FT.	ENTRANCES & PARKING LOTS SQ.FT.
035	0.697	3,283	0.622	-	2,798	-	-	-	-	-
036	0.575	2,801	0.511	-	2,387	-	-	-	1,272	-
037	0.550	1,007	0.527	-	1,526	-	-	-	5,009	-



- GENERAL NOTES:
1. SAID PROPERTY LINES ARE BEST FIT BASED ON COMPILED DATA AND DO NOT REPRESENT A BOUNDARY SURVEY.
 2. ALL AREAS SHOWN ARE APPROXIMATE ONLY.
 3. THIS PLAN SHEET WAS PREPARED WITHOUT THE BENEFIT OF A TITLE REPORT AND MAY NOT SHOW ALL EASEMENTS WHICH MAY AFFECT THE PROPERTY HEREON.
 4. NONE OF THE PROPERTY'S PHYSICAL IMPROVEMENTS ARE SHOWN HEREON.
 5. NO DESIGNATION OR LOCATION OF SUBSURFACE UTILITIES WAS PERFORMED DURING PREPARATION OF THIS PLAN SHEET.
 6. NO CEMETERY SITES WERE OBSERVED ON THE SUBJECT PROPERTY. THIS DOES NOT PRECLUDE THEIR EXISTENCE.
 7. THE SURVEY DATUM IS BASED ON THE TITLED VDOT PROJECT.
 8. MONUMENTATION TO BE SET UPON COMPLETION OF CONSTRUCTION.

LEGEND

- IPF/IRF - EXISTING PROPERTY MARKER
- - EXISTING PROPERTY LINE
- - EXISTING R/W LINE
- - CONSTRUCTION BASELINE
- - EXISTING PROPERTY MARKER
- - SET RM-2 (SEE NOTES)
- - PROPOSED RIGHT-OF-WAY / LIMITED ACCESS
- - PROPOSED TEMPORARY EASEMENT
- - PROPOSED PERMANENT EASEMENT
- - PROPOSED PERMANENT UTILITY EASEMENT
- - DENOTES PROP. TEMP. CONSTR. EASE FOR ENTRANCES & PARKING LOTS
- - DENOTES PROP. TEMP. CONSTR. EASE FOR SLOPES
- - DENOTES PROP. PERM. DRAINAGE EASE
- - DENOTES PROP. PERM. DRAINAGE SLOPE EASE
- - DENOTES PROP. PERM. DRAINAGE WALL EASE
- - DENOTES PROP. PERM. SLOPE EASE
- - DENOTES PROP. VDOT UTILITY EASE

	RADIUS	ARC	DELTA	TANGENT	CH. BEARING	CHORD
C230	4550.63	432.75	5°26'55"	216.54	N63°30'3"E	432.59
C231	3616.63	107.82	1°42'29"	53.92	S67°4'45"W	107.82

Curve BH_TRLI3
 PI = 46°84.33
 DELTA = 5°47' 53.96" (RT)
 D = 1'15" 25"
 T = 230.86'
 L = 461.33'
 R = 4,558.63'
 PCC = 44°53.47
 POC = 49°14.80
 DESIGN SPEED = 18 MPH
 e = 2.00%
 Lr = N/A

Curve BH_TRLI4
 PI = 49°85.77
 DELTA = 2°14' 35.93" (RT)
 D = 1'34" 51"
 T = 70.97'
 L = 141.92'
 R = 3,624.63'
 PCC = 49°14.80
 POC = 50°56.72
 PT = 52°44.17
 DESIGN SPEED = 18 MPH
 e = 2.00%
 Lr = N/A

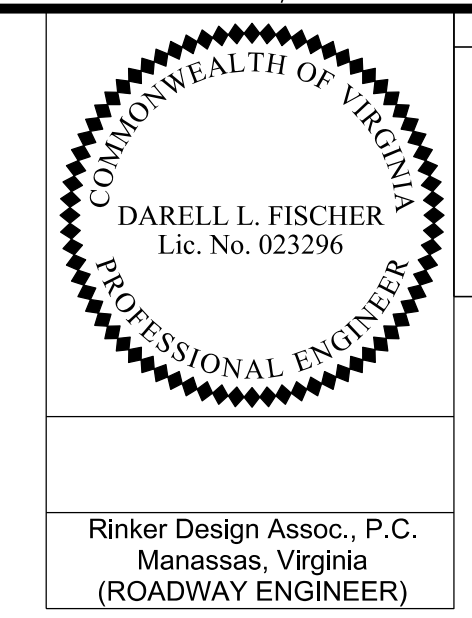
Curve BH_TRLI5
 PI = 51°50.94
 DELTA = 14°19' 15.02" (RT)
 D = 7'38" 22"
 T = 94.22'
 L = 187.46'
 R = 750.00'
 PCC = 50°56.72
 POC = 52°44.17
 DESIGN SPEED = 18 MPH
 e = 2.00%
 Lr = N/A

SCALE 0 50' 100'	VDOT PROJECT NO. 0495-029-419	SHEET NO. 17RW AREA 4
---------------------	----------------------------------	-----------------------------

APP. FOR ROW

PROJECT MANAGER_VDOT - Rupal Shah, PE, (703) 259-2362
 SURVEYED BY, DATE_RDA - Nicholas Kougioullis, LS, (703) 334-0837, 12/2021
 DESIGN BY_RDA - Darrell Fischer, PE, (703) 334-0823
 SUBSURFACE UTILITY BY, DATE_Accumark - Michael Taylor, LS, (703) 635-3060, 12/2021
 P.O.I. 14+50.68 GWMP Ramp G22 C.B.L.
 P.O.T. = 10+00.00 SWM Entrance C.B.L.
 Δ = 88'10"56" Rt.

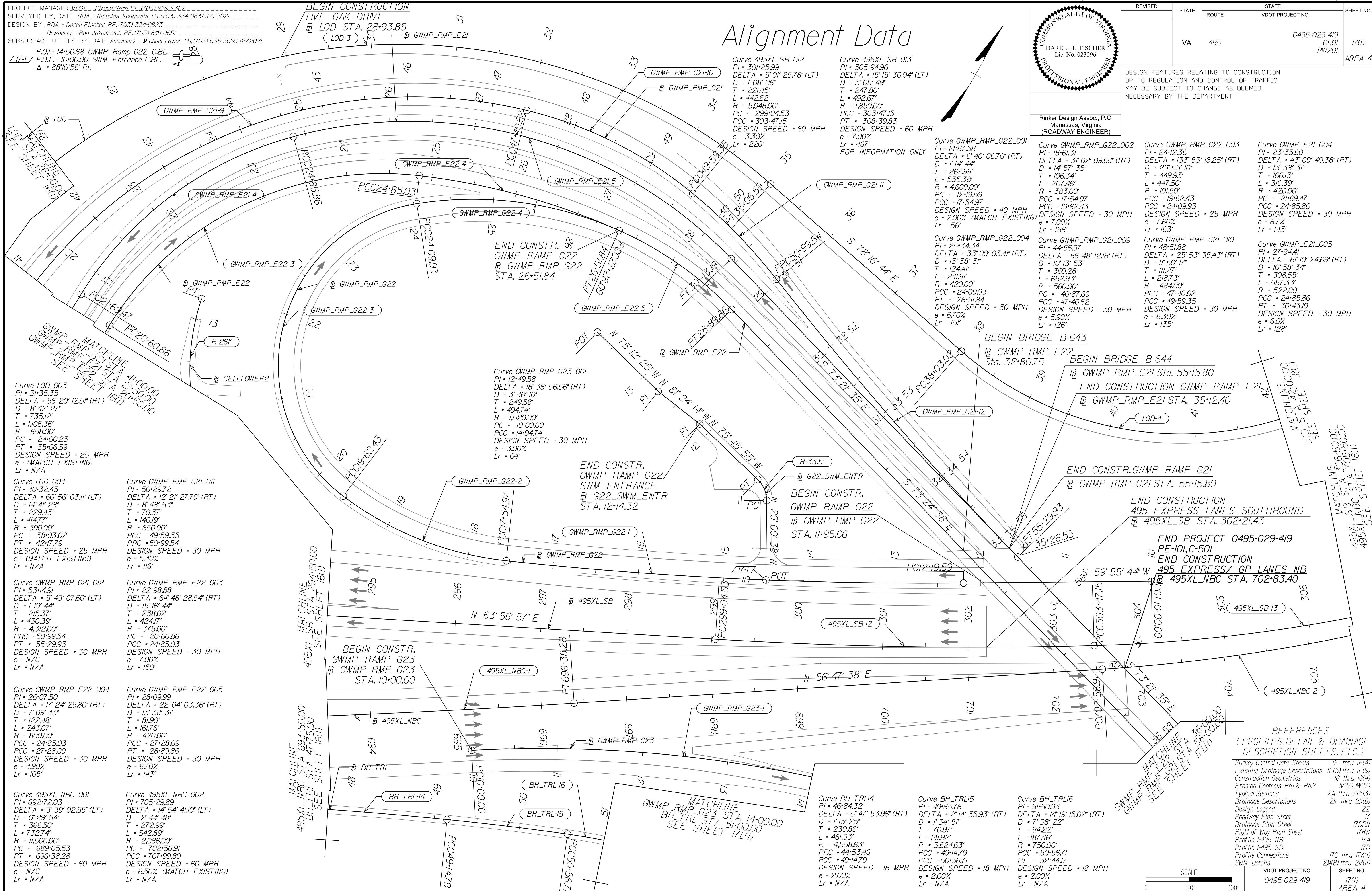
Alignment Data



REVISED	STATE	ROUTE	STATE	VDOT PROJECT NO.	SHEET NO.
	VA.	495		0495-029-419 C501 RW201	17(1) AREA 4

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

Rinker Design Assoc., P.C.
 Manassas, Virginia
 (ROADWAY ENGINEER)



Curve LOD_003
 PI = 31+35.35
 DELTA = 96° 20' 12.51" (RT)
 D = 8' 42' 27"
 T = 735.12'
 L = 1106.36'
 R = 658.00'
 PC = 24+00.23
 PT = 35+06.59
 DESIGN SPEED = 25 MPH
 e = (MATCH EXISTING)
 Lr = N/A

Curve GWMP_RMP_G21_011
 PI = 50+29.72
 DELTA = 12° 21' 27.79" (RT)
 D = 8' 48' 53"
 T = 70.37'
 L = 140.19'
 R = 650.00'
 PCC = 49+59.35
 PRC = 50+99.54
 DESIGN SPEED = 30 MPH
 e = 5.40%
 Lr = 116'

Curve GWMP_RMP_G21_012
 PI = 53+14.91
 DELTA = 5° 43' 07.60" (LT)
 D = 1° 19' 44"
 T = 215.37'
 L = 430.39'
 R = 4312.00'
 PRC = 50+99.54
 PT = 55+29.93
 DESIGN SPEED = 30 MPH
 e = N/C
 Lr = N/A

Curve GWMP_RMP_E22_004
 PI = 26+07.50
 DELTA = 17° 24' 29.80" (RT)
 D = 7° 09' 43"
 T = 122.48'
 L = 243.07'
 R = 800.00'
 PCC = 24+85.03
 PCC = 27+28.09
 DESIGN SPEED = 30 MPH
 e = 4.90%
 Lr = 105'

Curve 495XL_NBC_001
 PI = 692+72.03
 DELTA = 3° 39' 02.55" (LT)
 D = 0° 29' 54"
 T = 366.50'
 L = 732.74'
 R = 11500.00'
 PC = 689+05.53
 PT = 696+38.28
 DESIGN SPEED = 60 MPH
 e = N/C
 Lr = N/A

Curve GWMP_RMP_G21_011
 PI = 50+29.72
 DELTA = 12° 21' 27.79" (RT)
 D = 8' 48' 53"
 T = 70.37'
 L = 140.19'
 R = 650.00'
 PCC = 49+59.35
 PRC = 50+99.54
 DESIGN SPEED = 30 MPH
 e = 5.40%
 Lr = 116'

Curve GWMP_RMP_E22_003
 PI = 22+98.88
 DELTA = 64° 48' 28.54" (RT)
 D = 15° 16' 44"
 T = 238.02'
 L = 424.17'
 R = 375.00'
 PC = 20+60.86
 PCC = 24+85.03
 DESIGN SPEED = 30 MPH
 e = 7.00%
 Lr = 150'

Curve GWMP_RMP_E22_005
 PI = 28+09.99
 DELTA = 22° 04' 03.36" (RT)
 D = 13° 38' 31"
 T = 81.90'
 L = 161.76'
 R = 420.00'
 PCC = 27+28.09
 PT = 28+89.86
 DESIGN SPEED = 30 MPH
 e = 6.70%
 Lr = 143'

Curve 495XL_NBC_002
 PI = 705+29.89
 DELTA = 14° 54' 41.00" (LT)
 D = 2° 44' 48"
 T = 272.99'
 L = 542.89'
 R = 2086.00'
 PC = 702+56.91
 PCC = 707+99.80
 DESIGN SPEED = 60 MPH
 e = 6.50% (MATCH EXISTING)
 Lr = N/A

Curve 495XL_SB_012
 PI = 301+25.99
 DELTA = 5° 01' 25.78" (LT)
 D = 1° 08' 06"
 T = 221.45'
 L = 442.62'
 R = 5048.00'
 PC = 299+04.53
 PCC = 303+47.15
 DESIGN SPEED = 60 MPH
 e = 3.30%
 Lr = 220'

Curve 495XL_SB_013
 PI = 305+94.96
 DELTA = 15° 15' 30.04" (LT)
 D = 3° 05' 49"
 T = 247.80'
 L = 492.67'
 R = 1850.00'
 PCC = 303+47.15
 PT = 308+39.83
 DESIGN SPEED = 60 MPH
 e = 7.00%
 Lr = 467'
 FOR INFORMATION ONLY

Curve GWMP_RMP_G22_001
 PI = 14+87.58
 DELTA = 6° 40' 06.70" (RT)
 D = 1° 14' 44"
 T = 267.99'
 L = 535.38'
 R = 4600.00'
 PC = 12+19.59
 PCC = 17+54.97
 DESIGN SPEED = 40 MPH
 e = 2.00% (MATCH EXISTING)
 Lr = 56'

Curve GWMP_RMP_G22_002
 PI = 18+61.31
 DELTA = 31° 02' 09.68" (RT)
 D = 14° 57' 35"
 T = 106.34'
 L = 207.46'
 R = 383.00'
 PCC = 19+62.43
 PCC = 19+62.43
 DESIGN SPEED = 30 MPH
 e = 7.60%
 Lr = 163'

Curve GWMP_RMP_G22_003
 PI = 24+12.36
 DELTA = 133° 53' 18.25" (RT)
 D = 29° 55' 10"
 T = 449.93'
 L = 316.39'
 R = 191.50'
 PCC = 21+69.47
 PCC = 24+09.93
 DESIGN SPEED = 25 MPH
 e = 7.60%
 Lr = 163'

Curve GWMP_E21_004
 PI = 23+35.60
 DELTA = 43° 09' 40.38" (RT)
 D = 13° 38' 31"
 T = 166.13'
 L = 316.39'
 R = 420.00'
 PCC = 21+69.47
 PCC = 24+09.93
 DESIGN SPEED = 30 MPH
 e = 6.7%
 Lr = 143'

Curve GWMP_E21_005
 PI = 27+94.41
 DELTA = 61° 10' 24.69" (RT)
 D = 10° 58' 34"
 T = 308.55'
 L = 557.33'
 R = 522.00'
 PCC = 24+85.86
 PT = 30+43.19
 DESIGN SPEED = 30 MPH
 e = 6.0%
 Lr = 128'

REFERENCES
 (PROFILES, DETAIL & DRAINAGE DESCRIPTION SHEETS, ETC.)

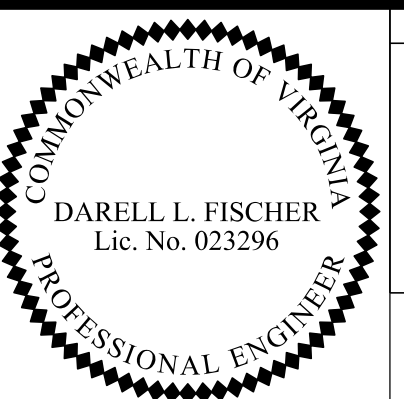
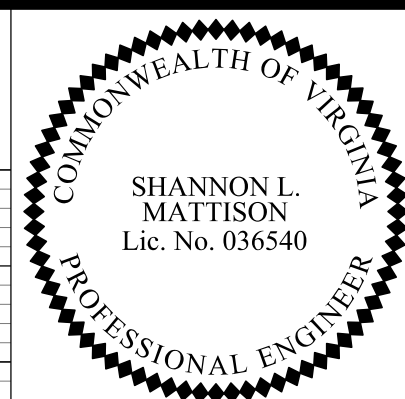
Survey Control Data Sheets	1F thru 1F(4)
Existing Drainage Descriptions	1F(5) thru 1F(9)
Construction Geometrics	1G thru 1G(4)
Erosion Controls Ph1 & Ph2	1W(7), 1W(17)
Typical Sections	2A thru 2B(13)
Drainage Descriptions	2K thru 2K(6)
Design Legend	22
Roadway Plan Sheet	17
Drainage Plan Sheet	17DRN
Right of Way Plan Sheet	17RW
Profile 1-495 NB	17A
Profile 1-495 SB	17B
Profile Connections	17C thru 17K(11)
SWM Details	2M(8) thru 2M(11)

SCALE	VDOT PROJECT NO.	SHEET NO.
0 50' 100'	0495-029-419	17(1) AREA 4

APPROVED FOR CONSTRUCTION

PROJECT MANAGER_VDOT - Rimal Stab PE (703) 259-2362
SURVEYED BY_DATE - BDA - Nicolas Kougoullis LS (703) 334-0837 12/2021
DESIGN BY_BDA - Darell Elischer PE (703) 334-0823
SUBSURFACE UTILITY BY_DATE Accurmark - Michael Taylor LS (703) 635-3060 12/2021

495 Express Lanes Northbound



REVISED	STATE	ROUTE	STATE PROJECT	SHEET NO
	VA.	495	0495-029-419 C501 RW201	17A AREA 4

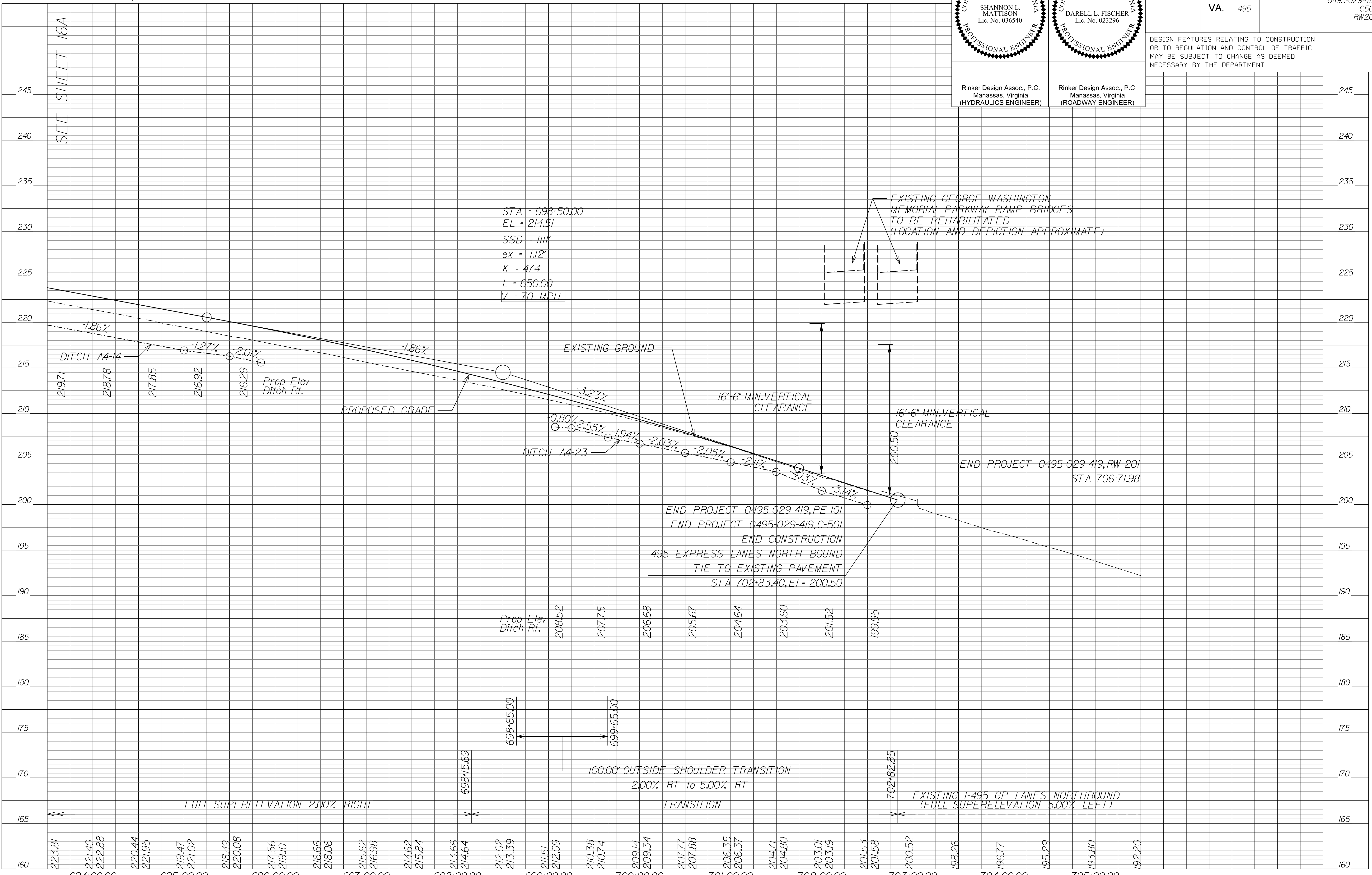
DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT

Rinker Design Assoc., P.C.
Manassas, Virginia
(HYDRAULICS ENGINEER)

Rinker Design Assoc., P.C.
Manassas, Virginia
(ROADWAY ENGINEER)

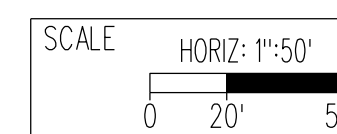
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SEE SHEET 16A



NOVA DISTRICT

10/26/2022



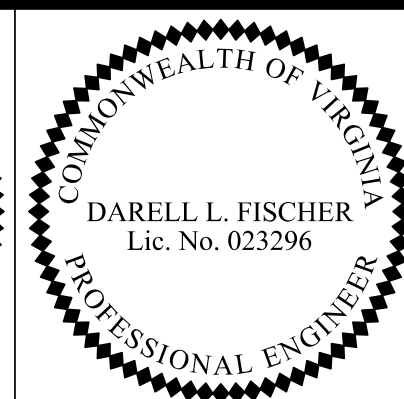
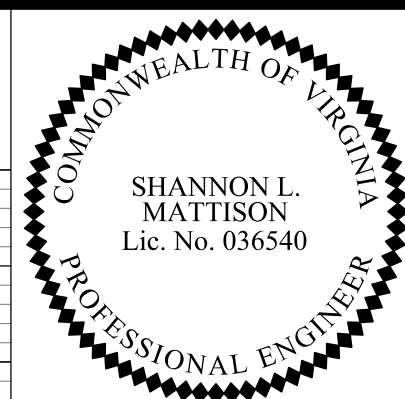
VDOT PROJECT NO. 0495-029-419

SHEET NO. 17A AREA 4

APPROVED FOR CONSTRUCTION

PROJECT MANAGER_VDOT - Rimal Stab PE (703) 259-2362
SURVEYED BY_BDA - Nicolas Kougoullis LS (703) 334-0837 12/2021
DESIGN BY_BDA - Darell Fischer PE (703) 334-0823
SUBSURFACE UTILITY BY_DATE Accumark - Michael Taylor LS (703) 635-3060 12/2021

495 Express Lanes Southbound



REVISED	STATE	ROUTE	STATE PROJECT	SHEET NO
	VA.	495	0495-029-419 CS01 RW201	17B AREA 4

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

Rinker Design Assoc., P.C.
Manassas, Virginia
(HYDRAULICS ENGINEER)

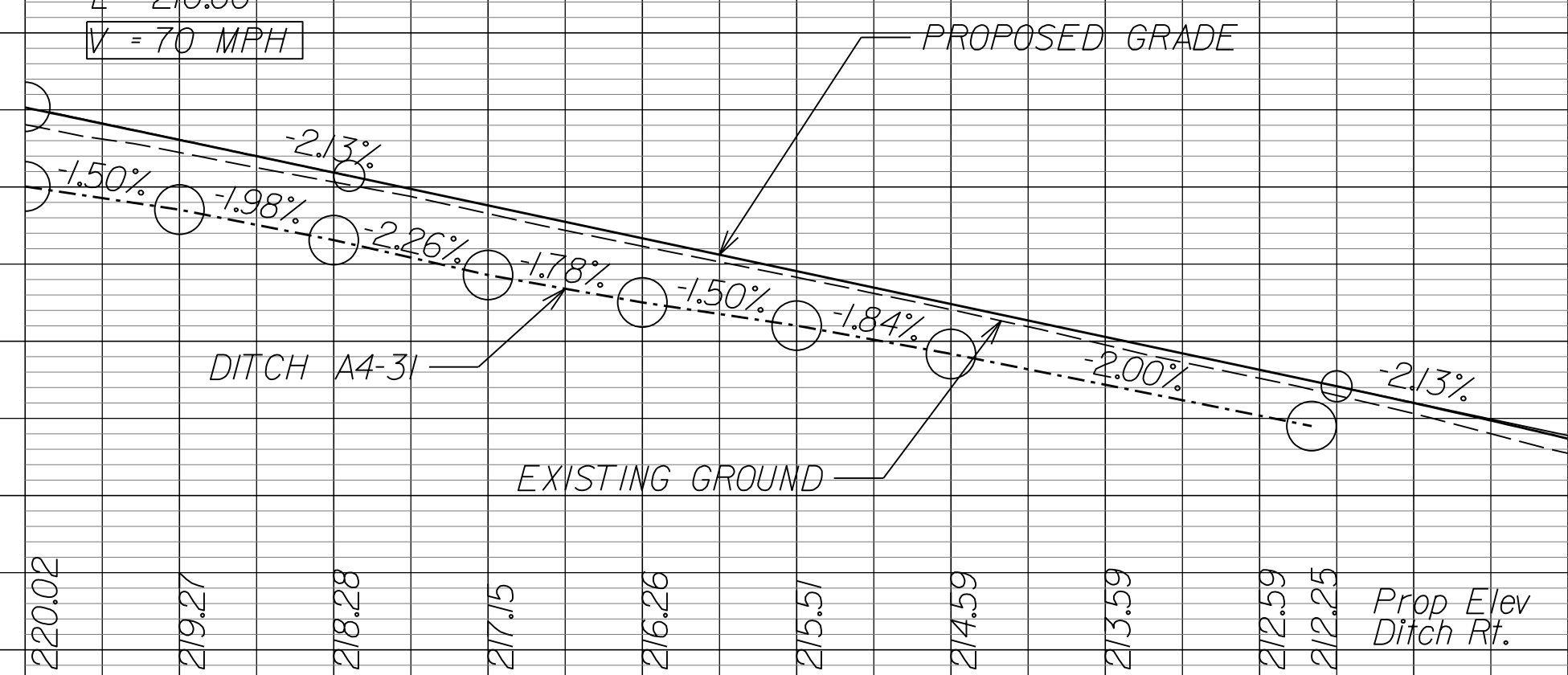
Rinker Design Assoc., P.C.
Manassas, Virginia
(ROADWAY ENGINEER)

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STA = 294+50.00
EL = 222.60
SSD = 12353'
ex = -0.02'
K = 2384
L = 210.00
V = 70 MPH

STA = 300+00.00
EL = 210.88
SSD = 1348'
ex = -0.28'
K = 283
L = 250.00
V = 70 MPH

EXISTING GEORGE WASHINGTON
MEMORIAL PARKWAY RAMP BRIDGES
(LOCATION AND DEPICTION APPROXIMATE)



END CONSTRUCTION
495 EXPRESS LANES SOUTH BOUND
TIE TO EXISTING PAVEMENT
STA 302+21.43, EI = 204.21

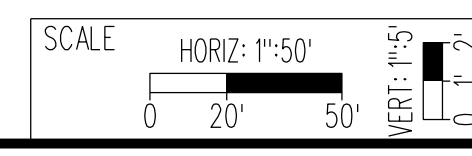
TRANSITION (2.3% RT to 2.6% LT)

TRANSITION TO MATCH EXISTING

EXISTING I-495 GP LANES SOUTHBOUND

NOVA DISTRICT

10/26/2022



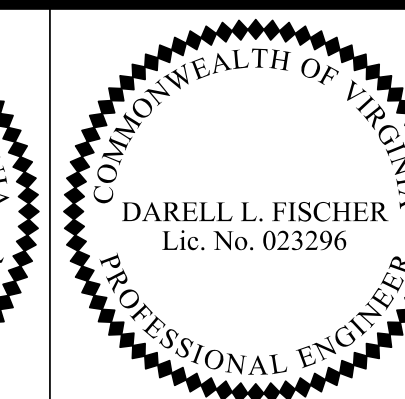
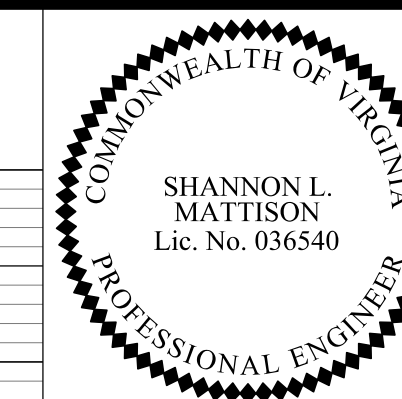
VDOT PROJECT NO.
0495-029-419

SHEET NO.
17B
AREA 4

APPROVED FOR CONSTRUCTION

PROJECT MANAGER_VDOT - Rimpal Stab PE (703) 259-2362
SURVEYED BY_DATE - BDA - Nicholas Kougoullis LS (703) 334-0837 12/2/2021
DESIGN BY_BDA - Darell Fischer PE (703) 334-0823
SUBSURFACE UTILITY BY_DATE - Accumark - Michael Taylor LS (703) 635-3060 12/2/2021

George Washington Memorial Pkwy Ramp G2I



REVISED	STATE	ROUTE	STATE PROJECT	SHEET NO
	VA.	495	0495-029-419 C501 RW201	17C AREA 4

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

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Manassas, Virginia
(HYDRAULICS ENGINEER)

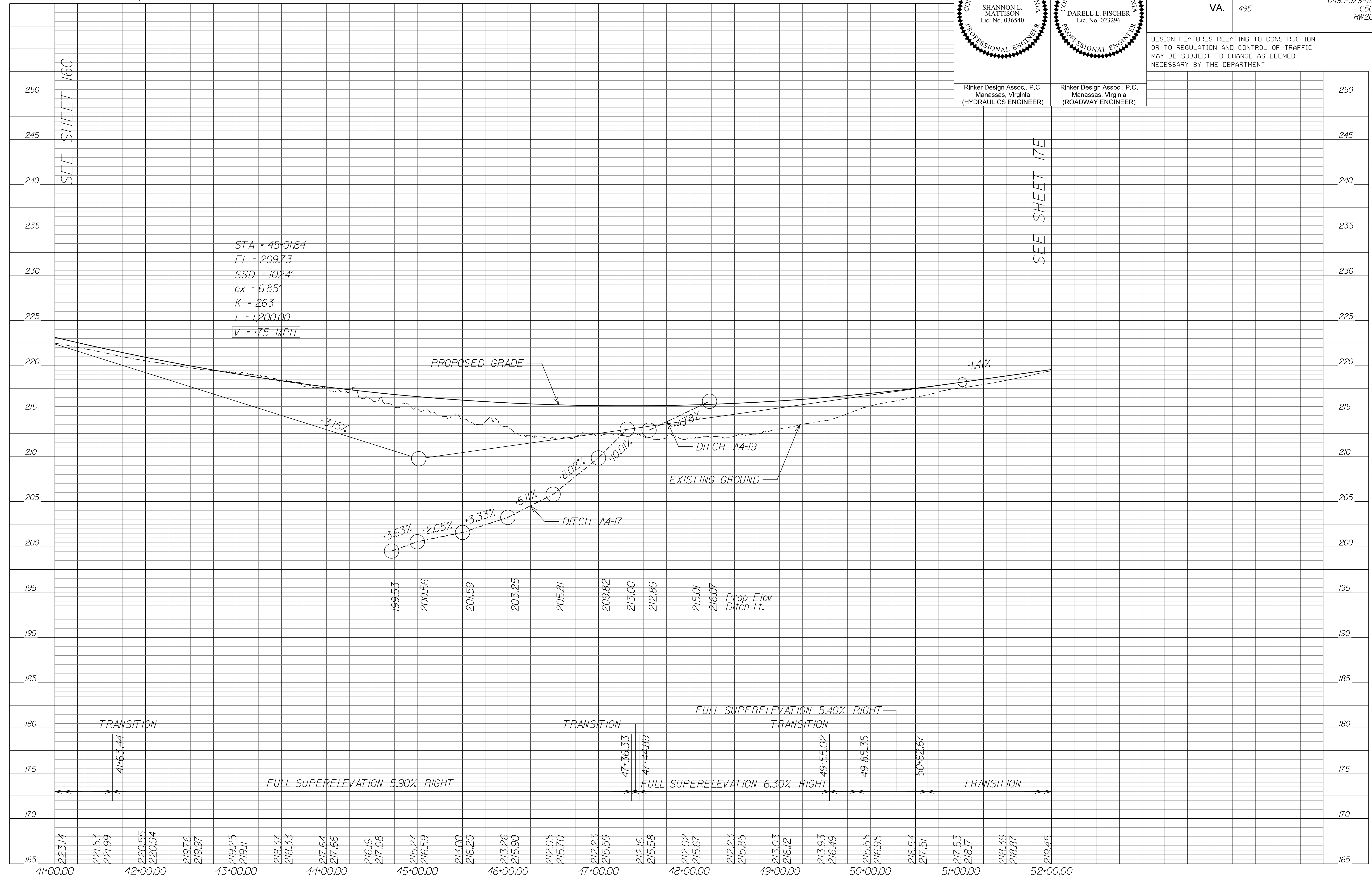
Rinker Design Assoc., P.C.
Manassas, Virginia
(ROADWAY ENGINEER)

250

SEE SHEET 16C

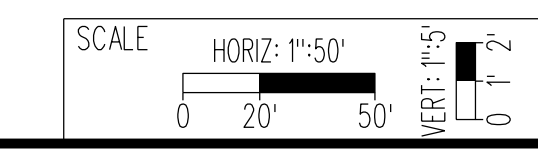
SEE SHEET 17E

STA = 45+01.64
EL = 209.73
SSD = 1024'
ex = 6.85'
K = 263
L = 1200.00
V = 75 MPH



NOVA DISTRICT

10/26/2022



VDOT PROJECT NO. 0495-029-419

SHEET NO. 17C AREA 4

APPROVED FOR CONSTRUCTION

PROJECT MANAGER_VDOT - Rimal Stab PE (703) 259-2362
SURVEYED BY_DATE - BDA - Nicolas Kougoullis LS (703) 334-0837 12/2021
DESIGN BY_BDA - Darel Fischer PE (703) 334-0823
SUBSURFACE UTILITY BY_DATE - Accumark - Michael Taylor LS (703) 635-3060 12/2021

George Washington Memorial Pkwy Ramp G22

SHANNON L. MATTISON
COMMONWEALTH OF VIRGINIA
PROFESSIONAL ENGINEER
Lic. No. 036540

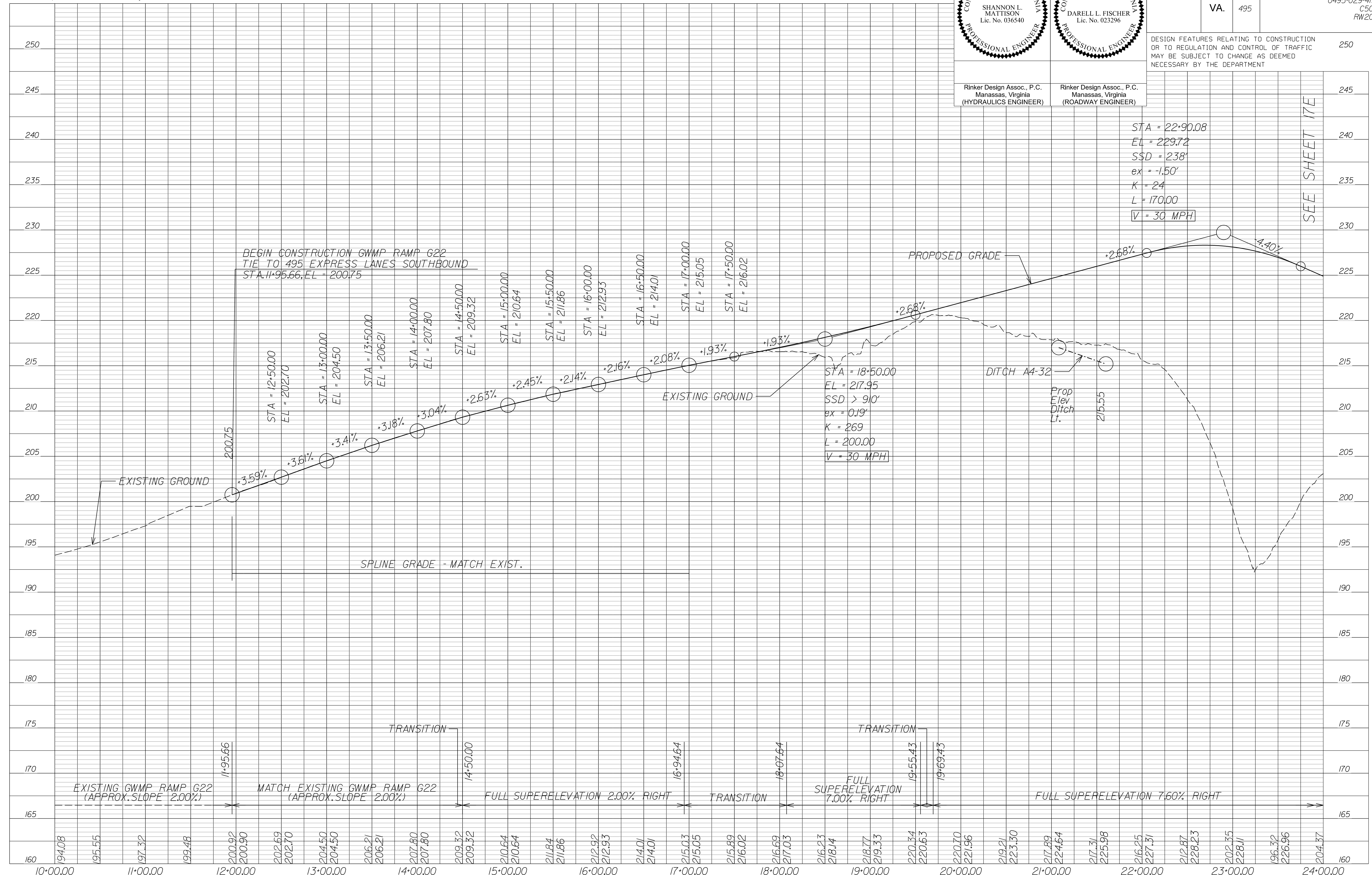
DARELL L. FISCHER
COMMONWEALTH OF VIRGINIA
PROFESSIONAL ENGINEER
Lic. No. 023296

Rinker Design Assoc., P.C.
Manassas, Virginia
(HYDRAULICS ENGINEER)

Rinker Design Assoc., P.C.
Manassas, Virginia
(ROADWAY ENGINEER)

REVISED	STATE	ROUTE	STATE PROJECT	SHEET NO
	VA.	495	0495-029-419 C501 RW201	17D AREA 4

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



NOVA DISTRICT

10/26/2022

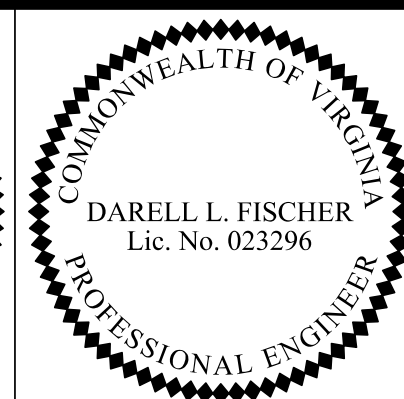
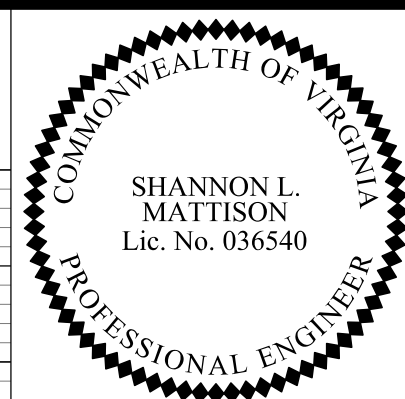
SCALE HORIZ: 1"=50'
VERT: 1"=5'

VDOT PROJECT NO. 0495-029-419

SHEET NO. 17D AREA 4

APPROVED FOR CONSTRUCTION

PROJECT MANAGER_VDOT - Rimpal Stab PE (703) 259-2362
SURVEYED BY_DATE - BDA - Nicolas Kougoullis LS (703) 334-0837 J2/2021
DESIGN BY_BDA - Darell Fischer PE (703) 334-0823
SUBSURFACE UTILITY BY_DATE - Accumar - Michael Taylor LS (703) 635-3060 J2/2021



REVISED	STATE	ROUTE	STATE PROJECT	SHEET NO
	VA.	495	0495-029-419 C501 RW201	17E AREA 4

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

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Manassas, Virginia
(HYDRAULICS ENGINEER)

Rinker Design Assoc., P.C.
Manassas, Virginia
(ROADWAY ENGINEER)

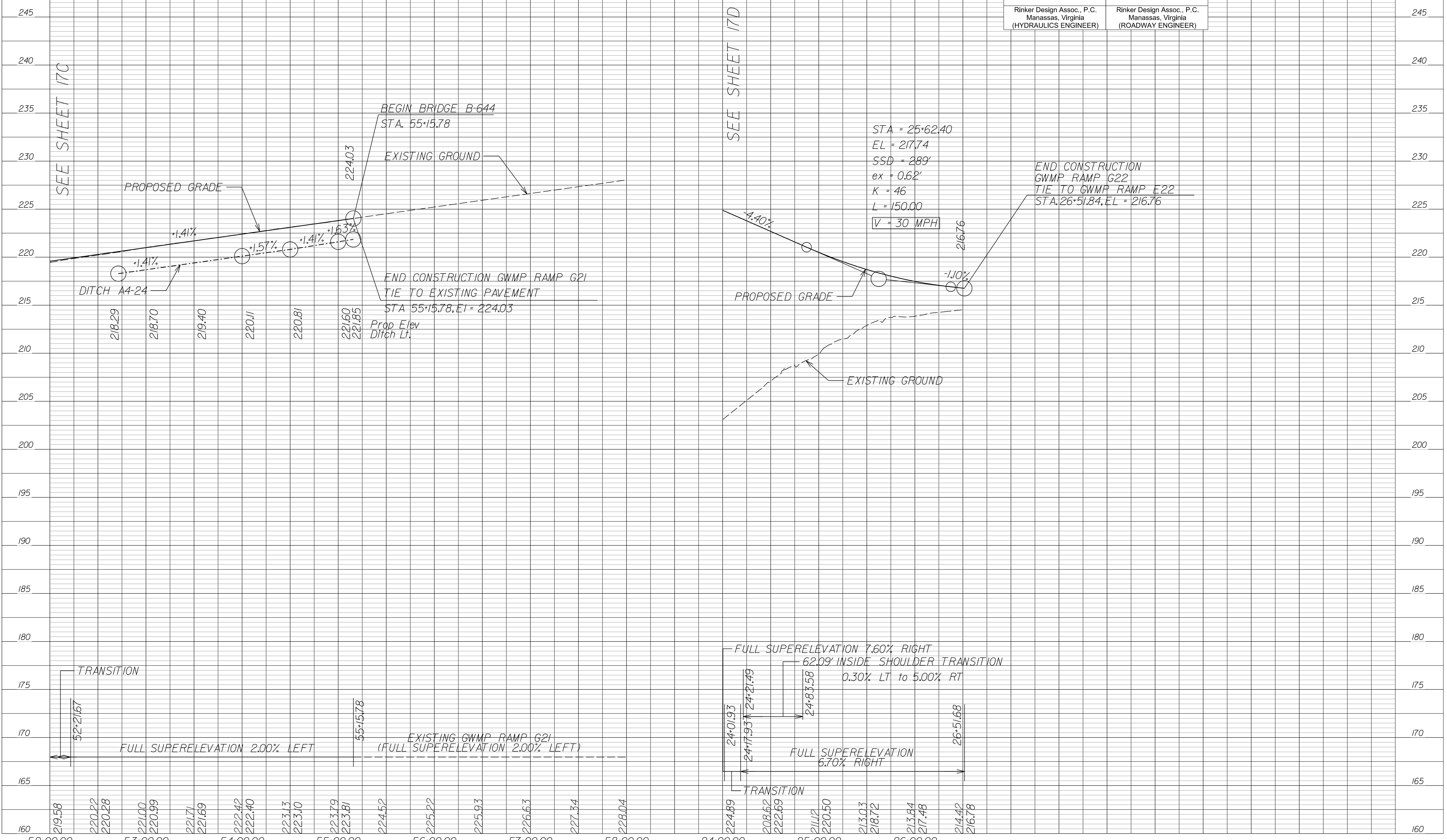
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GWMP Ramp G21

GWMP Ramp G22

SEE SHEET 17C

SEE SHEET 17D



TRANSITION

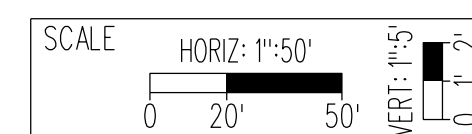
FULL SUPERELEVATION 2.00% LEFT

EXISTING GWMP RAMP G21 (FULL SUPERELEVATION 2.00% LEFT)

FULL SUPERELEVATION 7.60% RIGHT
62.09' INSIDE SHOULDER TRANSITION
0.30% LT to 5.00% RT

FULL SUPERELEVATION 6.70% RIGHT

TRANSITION



VDOT PROJECT NO. 0495-029-419

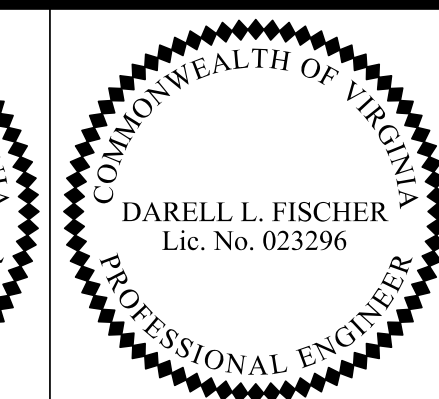
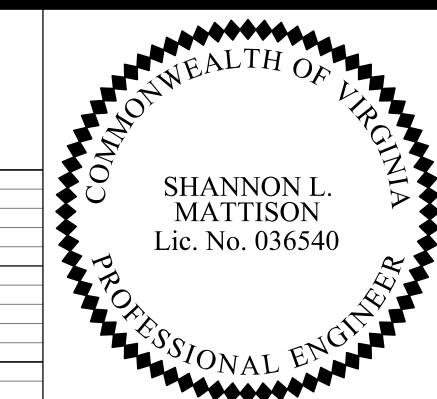
SHEET NO. 17E AREA 4

APPROVED FOR CONSTRUCTION

NOVA DISTRICT

PROJECT MANAGER_VDOT - Rimpal Stab PE, (703) 259-2362
SURVEYED BY, DATE_BDA - Nicolas Kougoullis LS, (703) 334-0837, 12/2021
DESIGN BY_BDA - Darel L Fischer PE, (703) 334-0823
SUBSURFACE UTILITY BY, DATE_Accumark - Michael Taylor LS, (703) 635-3060, 12/2021

George Washington Memorial Pkwy Ramp G23

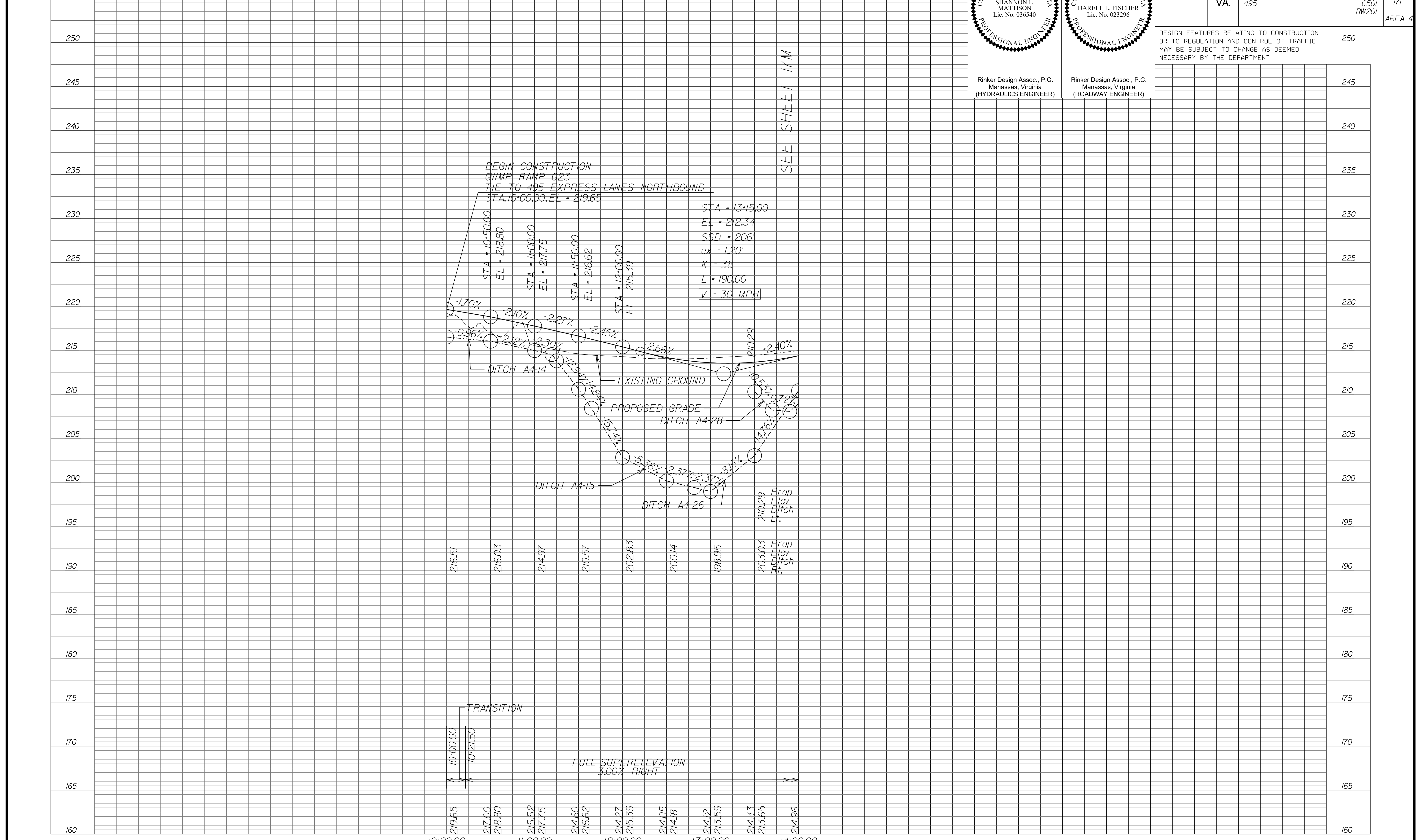


Rinker Design Assoc., P.C.
Manassas, Virginia
(HYDRAULICS ENGINEER)

Rinker Design Assoc., P.C.
Manassas, Virginia
(ROADWAY ENGINEER)

REVISED	STATE			PROJECT	SHEET NO
	STATE	ROUTE	PROJECT		
	VA.	495	0495-029-419 C501 RW201	17F	AREA 4

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



SEE SHEET 17M

NOVA DISTRICT

10/26/2022

SCALE: HORIZ: 1"=50' VERT: 1"=5'

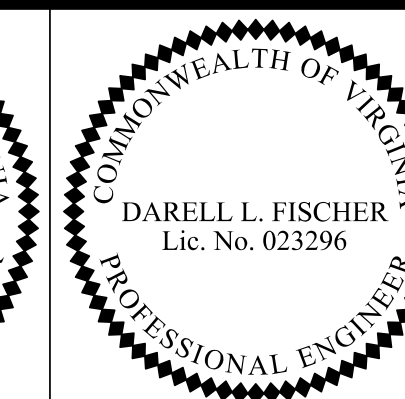
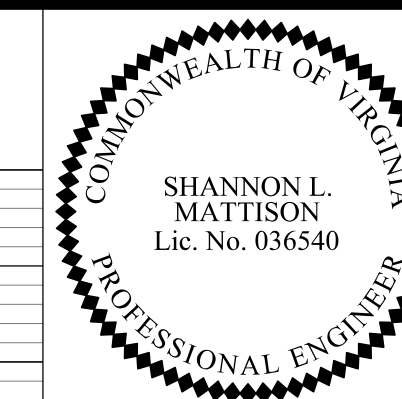
VDOT PROJECT NO. 0495-029-419

SHEET NO. 17F AREA 4

APPROVED FOR CONSTRUCTION

PROJECT MANAGER_VDOT - Rimal Stab PE (703) 259-2362
SURVEYED BY_DATE - BDA - Nicholas Kougoullis LS (703) 334-0837 J2/2021
DESIGN BY_BDA - Darell Fischer PE (703) 334-0823
SUBSURFACE UTILITY BY_DATE - Accumark - Michael Taylor LS (703) 635-3060 J2/2021

George Washington Memorial Pkwy Ramp E21

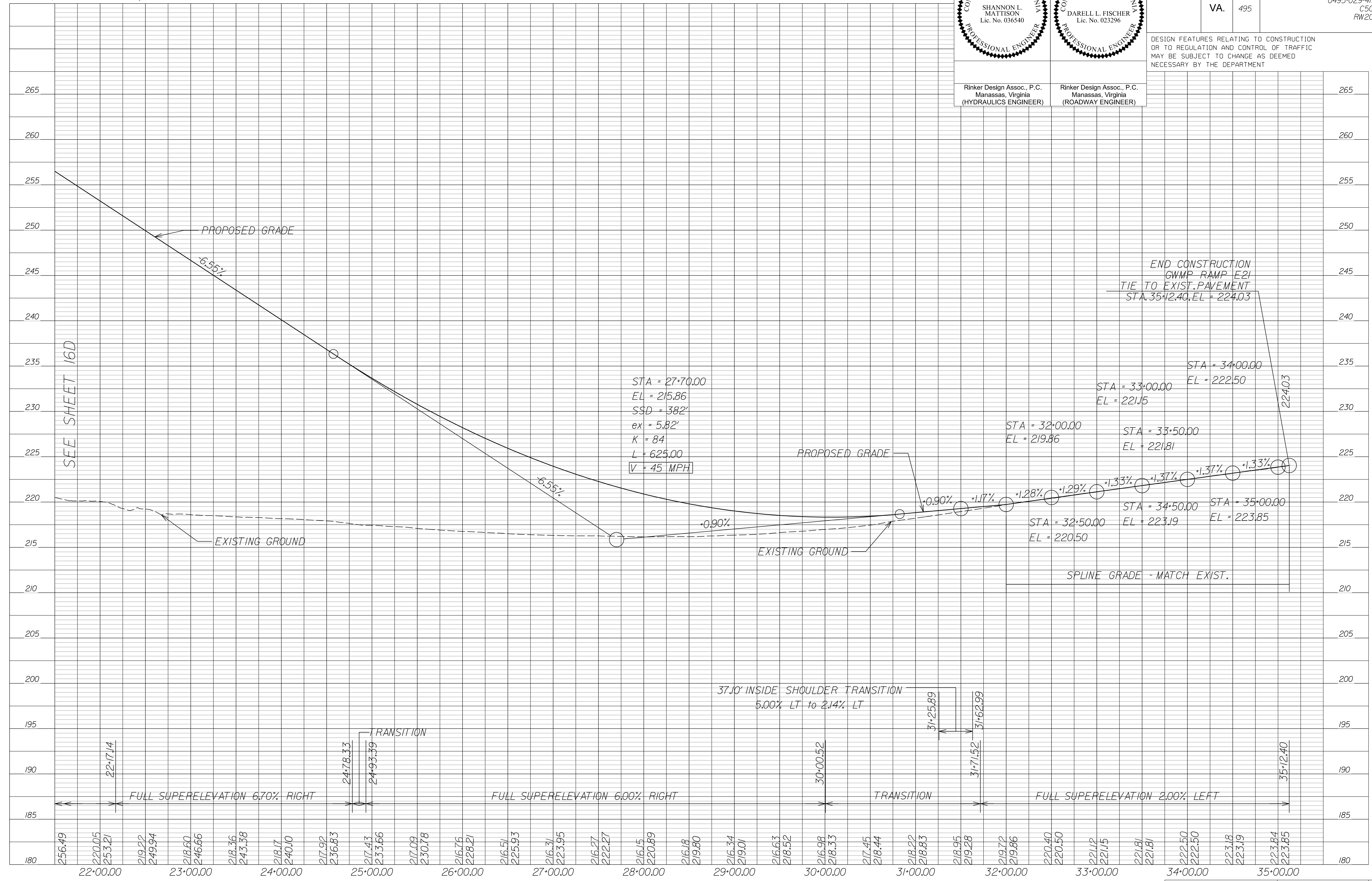


Rinker Design Assoc., P.C.
Manassas, Virginia
(HYDRAULICS ENGINEER)

Rinker Design Assoc., P.C.
Manassas, Virginia
(ROADWAY ENGINEER)

REVISED	STATE	ROUTE	STATE PROJECT	SHEET NO
	VA.	495	0495-029-419 C501 RW201	17G AREA 4

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



SEE SHEET 16D

NOVA DISTRICT

10/26/2022

SCALE	HORIZ: 1"=50'	VERT: 1"=5'	VDOT PROJECT NO. 0495-029-419	SHEET NO. 17G AREA 4
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APPROVED FOR CONSTRUCTION

LIMITED ACCESS HIGHWAY

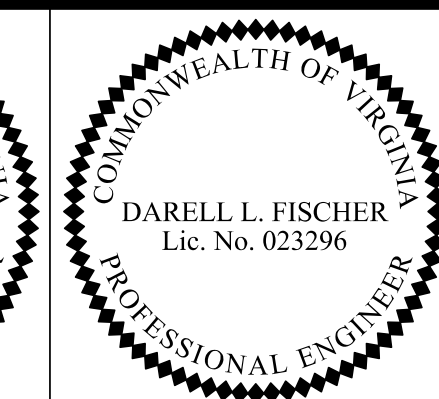
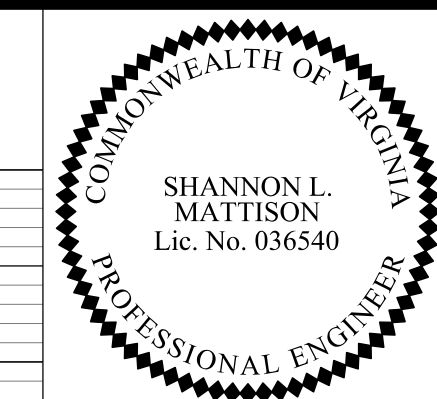
By Resolution of State Highway Commission dated October 4, 1956

LIMITED ACCESS HIGHWAY

By Resolution of Commonwealth Transportation Board dated May 17, 2022

PROJECT MANAGER_VDOT - Rimal Stab PE (703) 259-2362
SURVEYED BY_DATE - Nicholas Kougoullis LS (703) 334-0837 J2/2021
DESIGN BY_BDA - Darell Fischer PE (703) 334-0823
SUBSURFACE UTILITY BY_Accumark - Michael Taylor LS (703) 635-3060 J2/2021

George Washington Memorial Pkwy Ramp E22

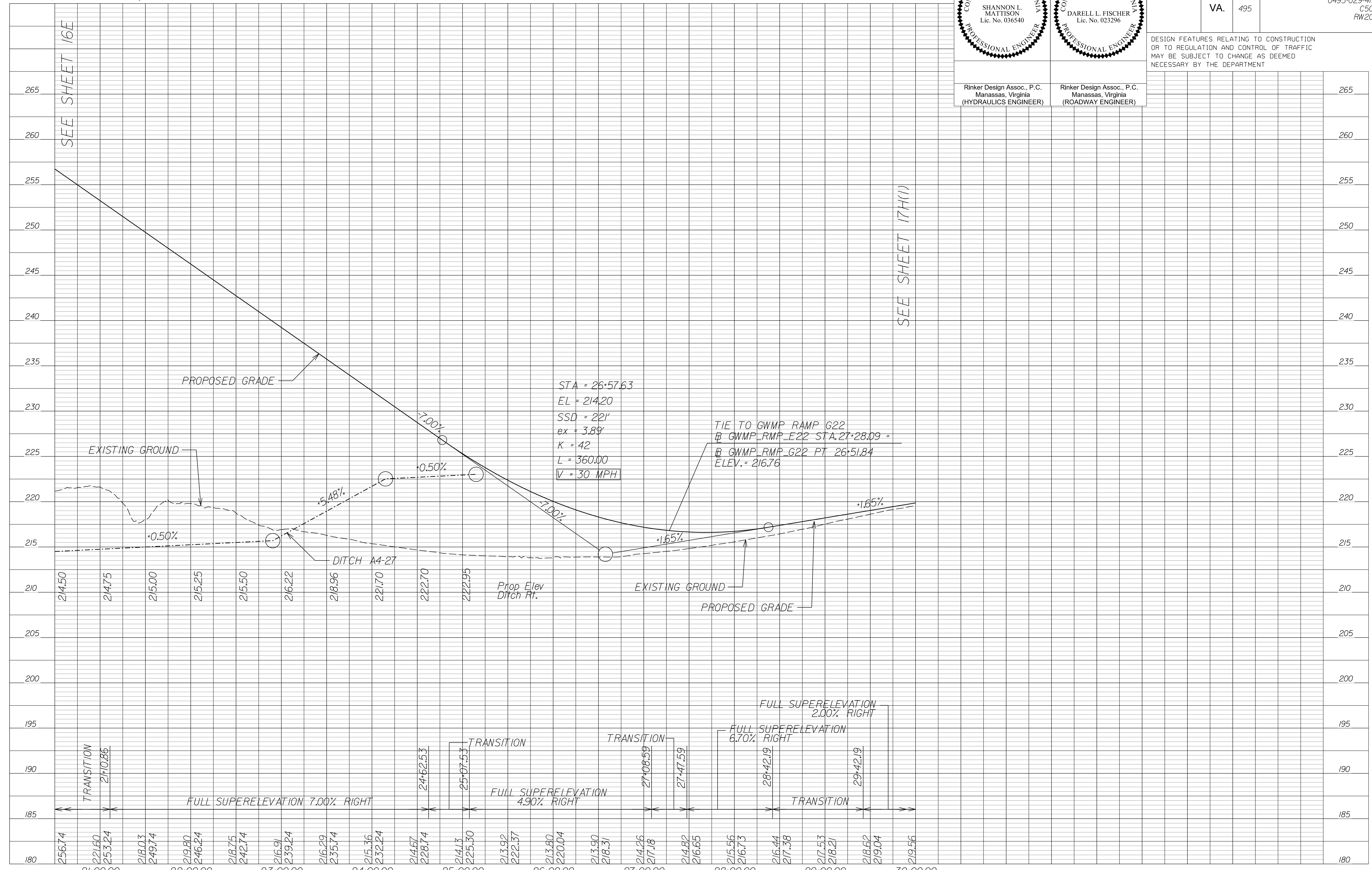


Rinker Design Assoc., P.C.
Manassas, Virginia
(HYDRAULICS ENGINEER)

Rinker Design Assoc., P.C.
Manassas, Virginia
(ROADWAY ENGINEER)

REVISED	STATE	ROUTE	STATE PROJECT	SHEET NO
	VA.	495	0495-029-419 C501 RW201	17H AREA 4

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

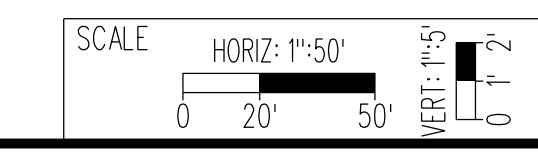


SEE SHEET 16E

SEE SHEET 17H(1)

NOVA DISTRICT

10/26/2022





VDOT PROJECT NO. 0495-029-419
SHEET NO. 17H AREA 4

APPROVED FOR CONSTRUCTION

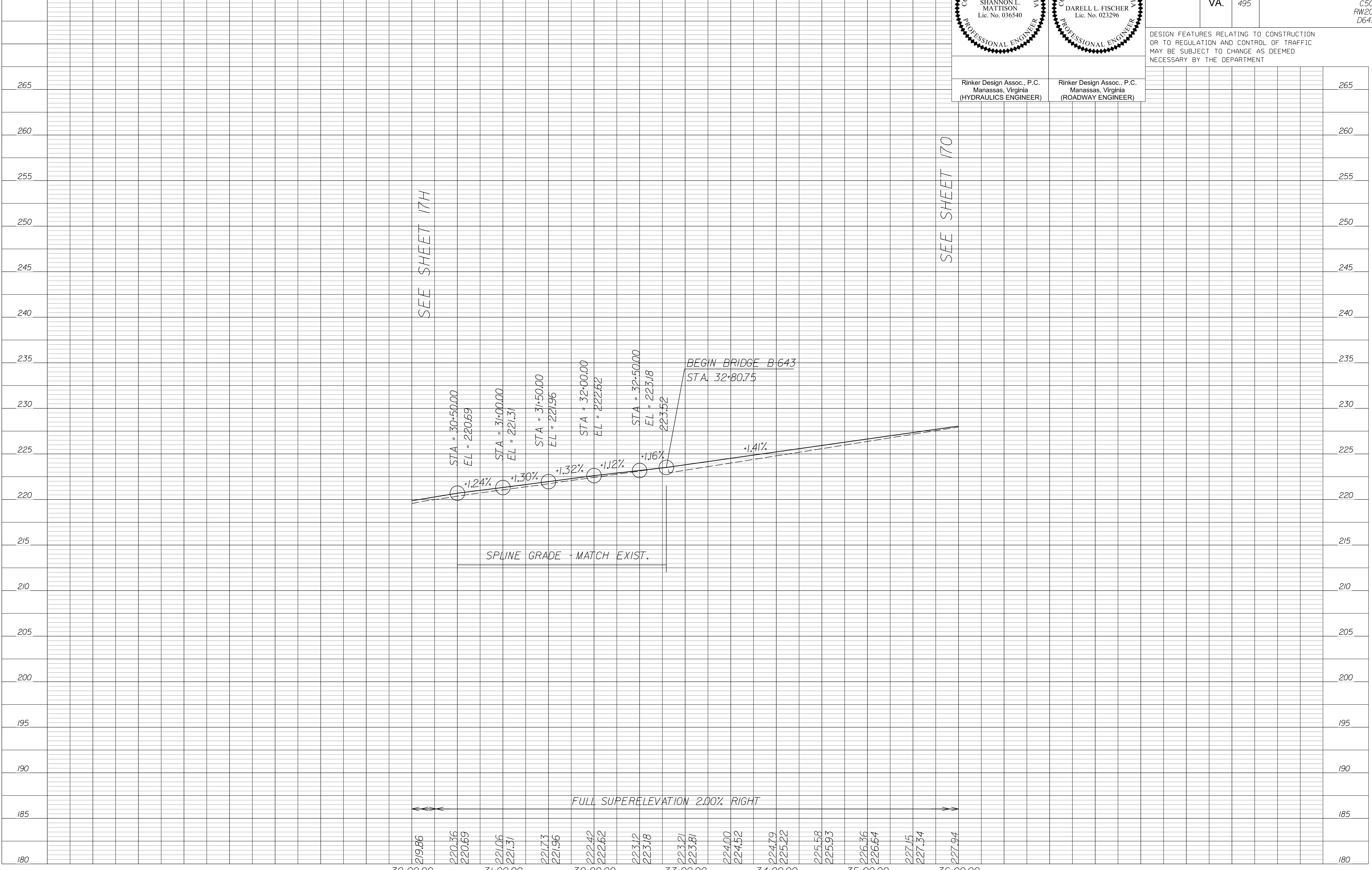
PROJECT MANAGER_VDOT - Rimpal Stab, PE, (703) 259-2362
 SURVEYED BY, DATE_BDA - Nicholas Kougoulis, LS, (703) 334-0837, 12/2021
 DESIGN BY_BDA - Darel L. Fischer, PE, (703) 334-0823
 SUBSURFACE UTILITY, DATE_Accumark - Michael Taylor, LS, (703) 635-3060, 12/2021

George Washington Memorial Pkwy Ramp E22

 SHANNON L. MATTISON Lic. No. 036540 PROFESSIONAL ENGINEER	 DARELL L. FISCHER Lic. No. 023296 PROFESSIONAL ENGINEER
Rinker Design Assoc., P.C. Manassas, Virginia (HYDRAULICS ENGINEER)	Rinker Design Assoc., P.C. Manassas, Virginia (ROADWAY ENGINEER)

REVISED	STATE	ROUTE	STATE PROJECT	SHEET NO.
	VA.	495	0495-029-419 C501 RW201 D643	17H(1) AREA 4

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



NOVA DISTRICT

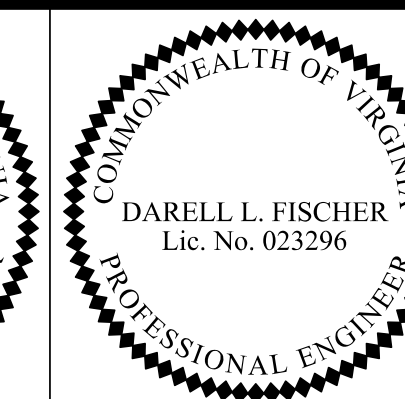
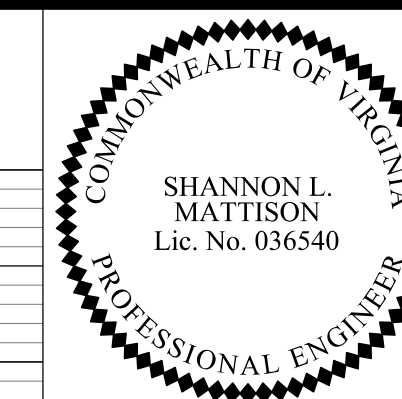
10/26/2022

SCALE HORIZ: 1"=50' VERT: 1"=5'	VDOT PROJECT NO. 0495-029-419	SHEET NO. 17H(1) AREA 4
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APPROVED FOR CONSTRUCTION

PROJECT MANAGER_VDOT - Rimpal Stab PE (703) 259-2362
SURVEYED BY_DATE - BDA - Nicolas Kougoullis LS (703) 334-0837 J2/2021
DESIGN BY_BDA - Darell Fischer PE (703) 334-0823
SUBSURFACE UTILITY BY_DATE Accumark - Michael Taylor LS (703) 635-3060 J2/2021

Balls Hill Shared Use Path

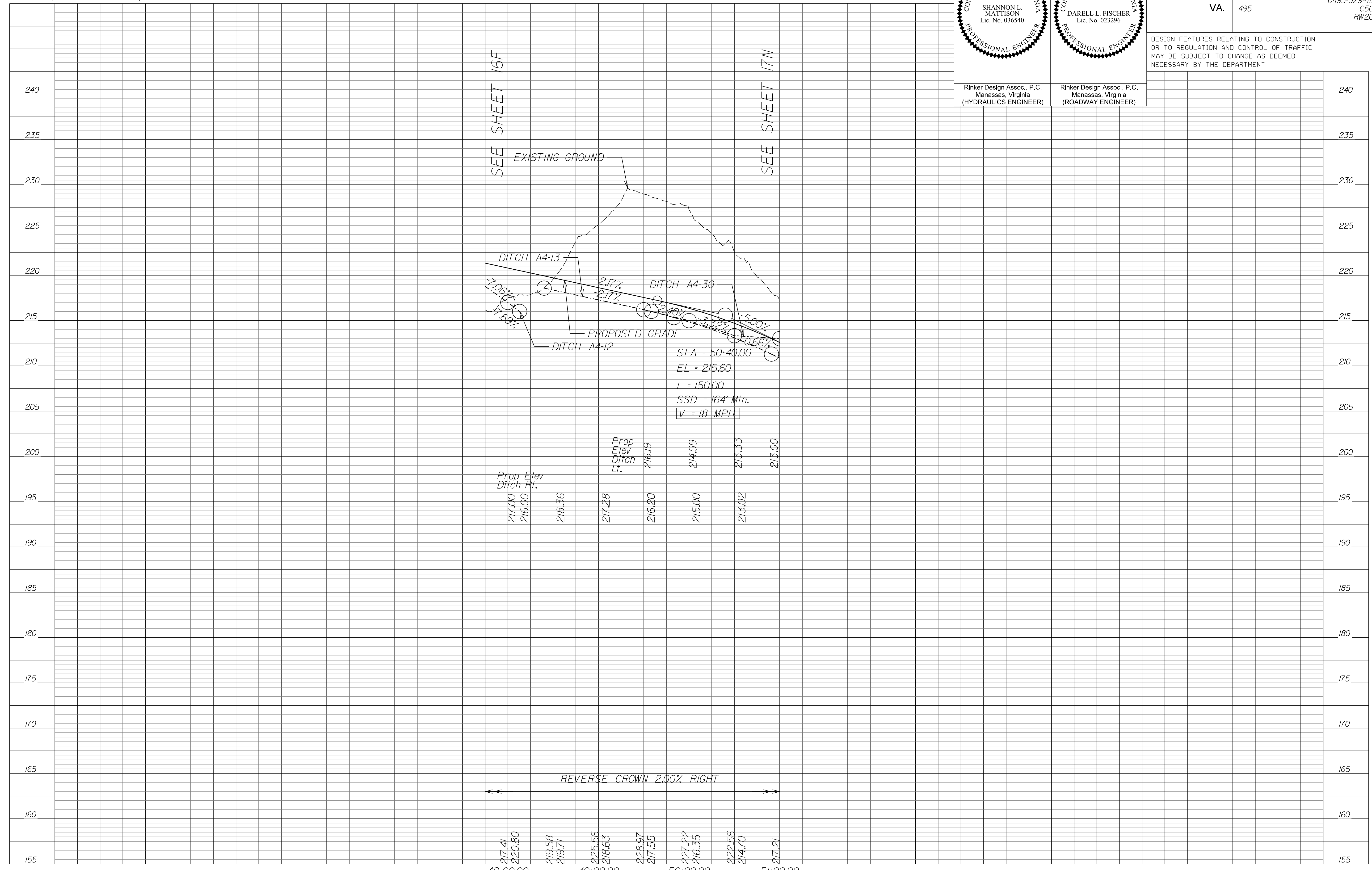


Rinker Design Assoc., P.C.
Manassas, Virginia
(HYDRAULICS ENGINEER)

Rinker Design Assoc., P.C.
Manassas, Virginia
(ROADWAY ENGINEER)

REVISED	STATE	ROUTE	STATE PROJECT	SHEET NO.
	VA.	495	0495-029-419 C501 RW201	17J AREA 4

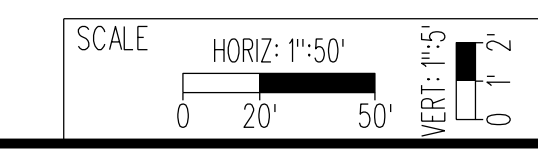
DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT



NOVA DISTRICT

10/26/2022

APPROVED FOR CONSTRUCTION



VDOT PROJECT NO. 0495-029-419
SHEET NO. 17J AREA 4

LIMITED ACCESS HIGHWAY

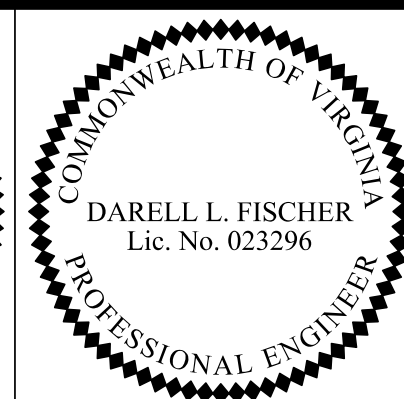
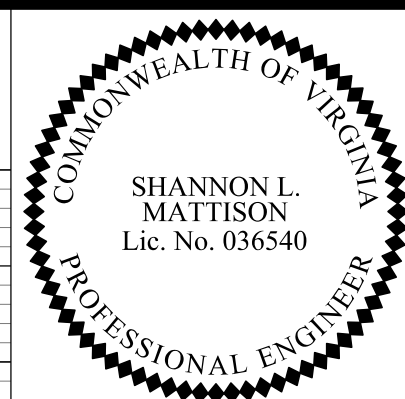
By Resolution of State Highway Commission dated October 4, 1956

LIMITED ACCESS HIGHWAY

By Resolution of Commonwealth Transportation Board dated May 17, 2022

PROJECT MANAGER_VDOT - Rimpal Stab, PE, (703) 259-2362
SURVEYED BY, DATE - BDA - Nicholas Kougoulis, LS, (703) 334-0837, 12/2/2021
DESIGN BY - BDA - Darell Elischer, PE, (703) 334-0823
SUBSURFACE UTILITY BY, DATE - Accumark - Michael Taylor, LS, (703) 635-3060, 12/2/2021

Live Oak Drive

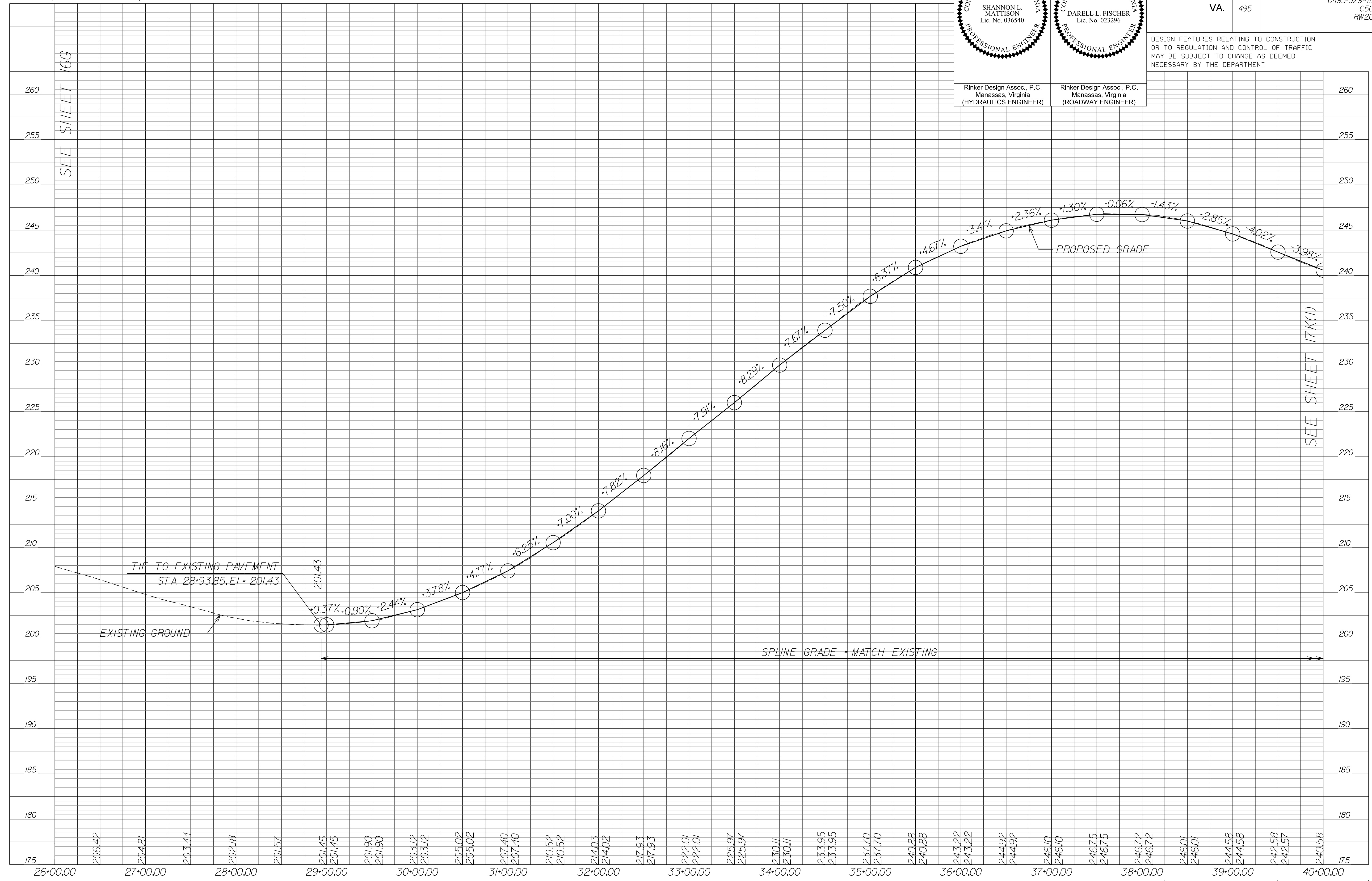


Rinker Design Assoc., P.C.
Manassas, Virginia
(HYDRAULICS ENGINEER)

Rinker Design Assoc., P.C.
Manassas, Virginia
(ROADWAY ENGINEER)

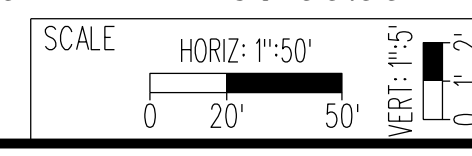
REVISED	STATE	ROUTE	STATE PROJECT	SHEET NO.
	VA.	495	0495-029-419 C501 RW201	17K AREA 4

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



NOVA DISTRICT

10/26/2022

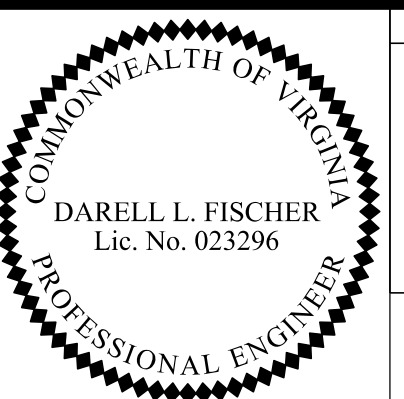
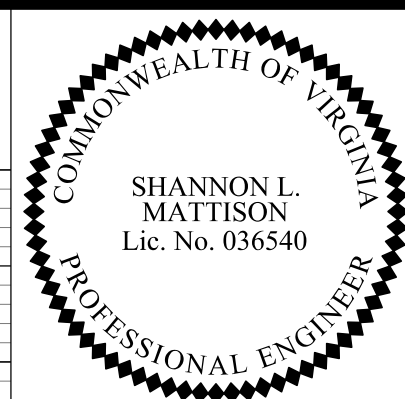


VDOT PROJECT NO.
0495-029-419
SHEET NO.
17K
AREA 4

APPROVED FOR CONSTRUCTION

PROJECT MANAGER_VDOT - Rimal Stab PE (703) 259-2362
SURVEYED BY_DATE - BDA - Nicholas Kougoullis LS (703) 334-0837 J2/2021
DESIGN BY_BDA - Darell Fischer PE (703) 334-0823
SUBSURFACE UTILITY BY_DATE Accumark - Michael Taylor LS (703) 635-3060 J2/2021

Live Oak Drive



Rinker Design Assoc., P.C.
Manassas, Virginia
(HYDRAULICS ENGINEER)

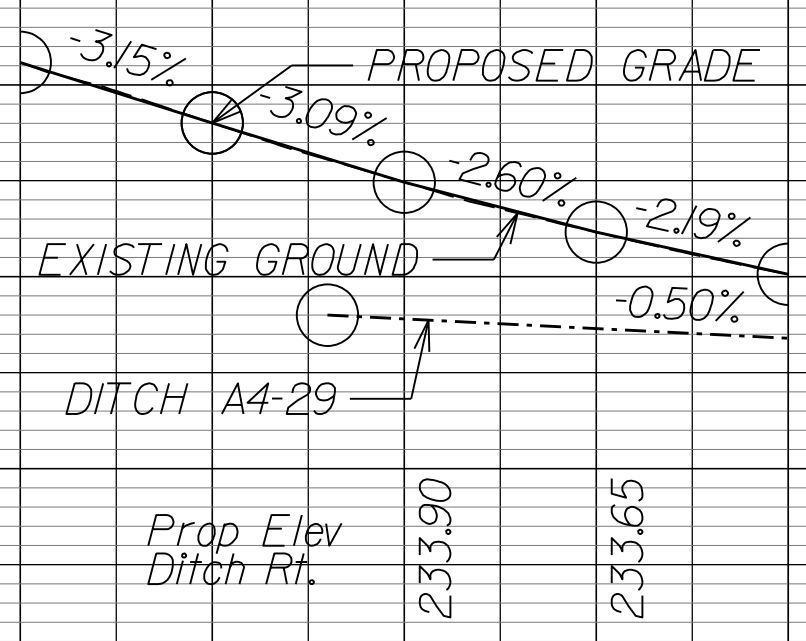
Rinker Design Assoc., P.C.
Manassas, Virginia
(ROADWAY ENGINEER)

REVISED	STATE	ROUTE	STATE PROJECT	SHEET NO
	VA.	495	0495-029-419 C501 RW201	17K(1) AREA 4

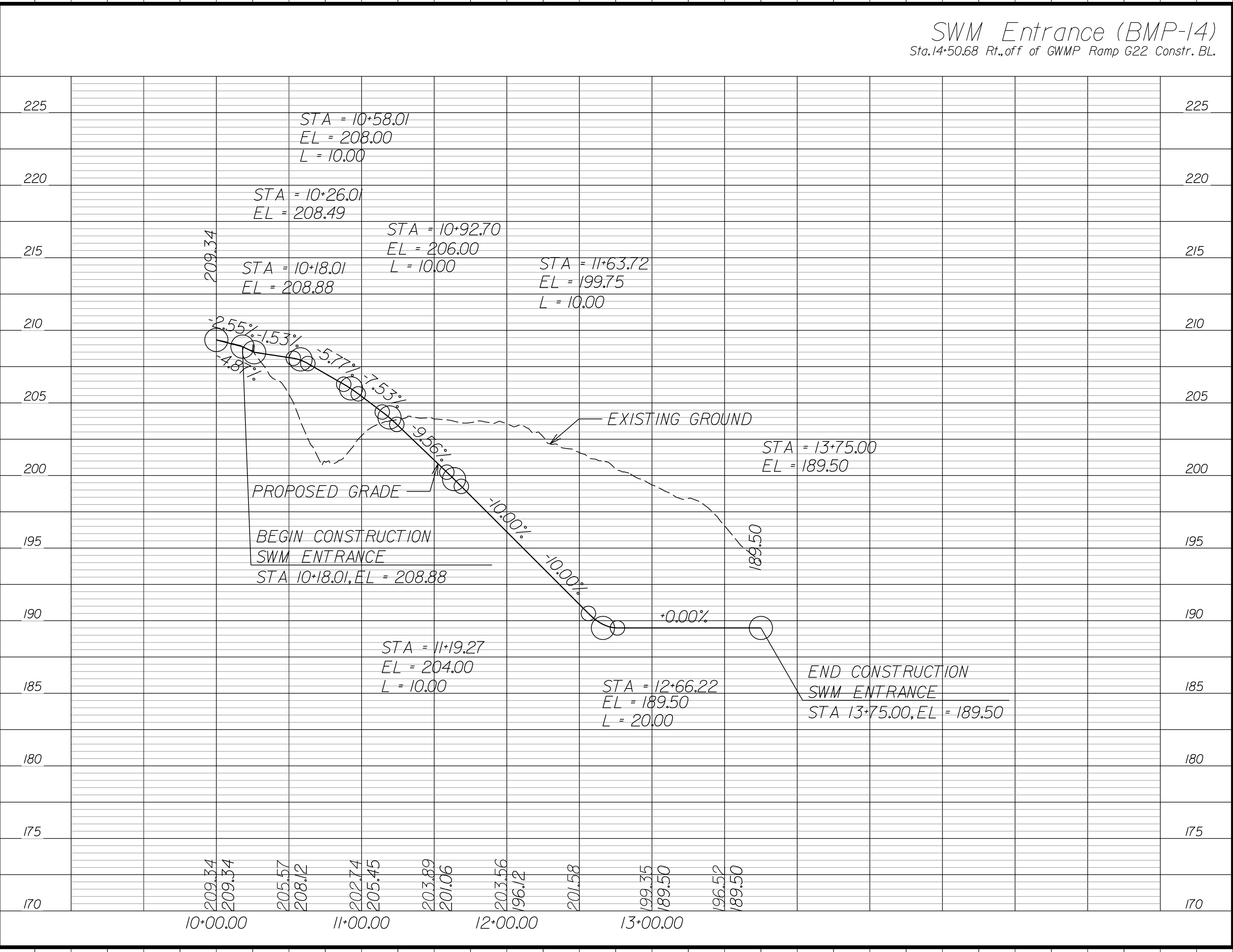
DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT

SEE SHEET 17K

SEE SHEET 18B

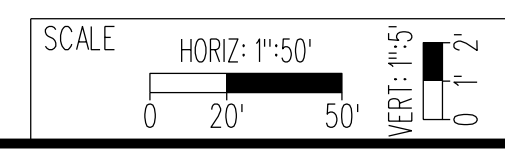


SPLINE GRADE = MATCH EXISTING



SWM Entrance (BMP-14) Sta. 14+50.68 Rt. off of GWMP Ramp G22 Constr. BL.

NOVA DISTRICT



APPROVED FOR CONSTRUCTION

PROJECT MANAGER_VDOT - Rupal Shah, P.E. (703) 259-2362
 SURVEYED BY, DATE_RDA - Nicholas Kaugaulis, L.S. (703) 334-0837, 12/2021
 DESIGN BY_RDA - Darrell Fischer, P.E. (703) 334-0823
 SUBSURFACE UTILITY BY, DATE_Accumark - Michael Taylor, L.S. (703) 635-3060, 12/2021

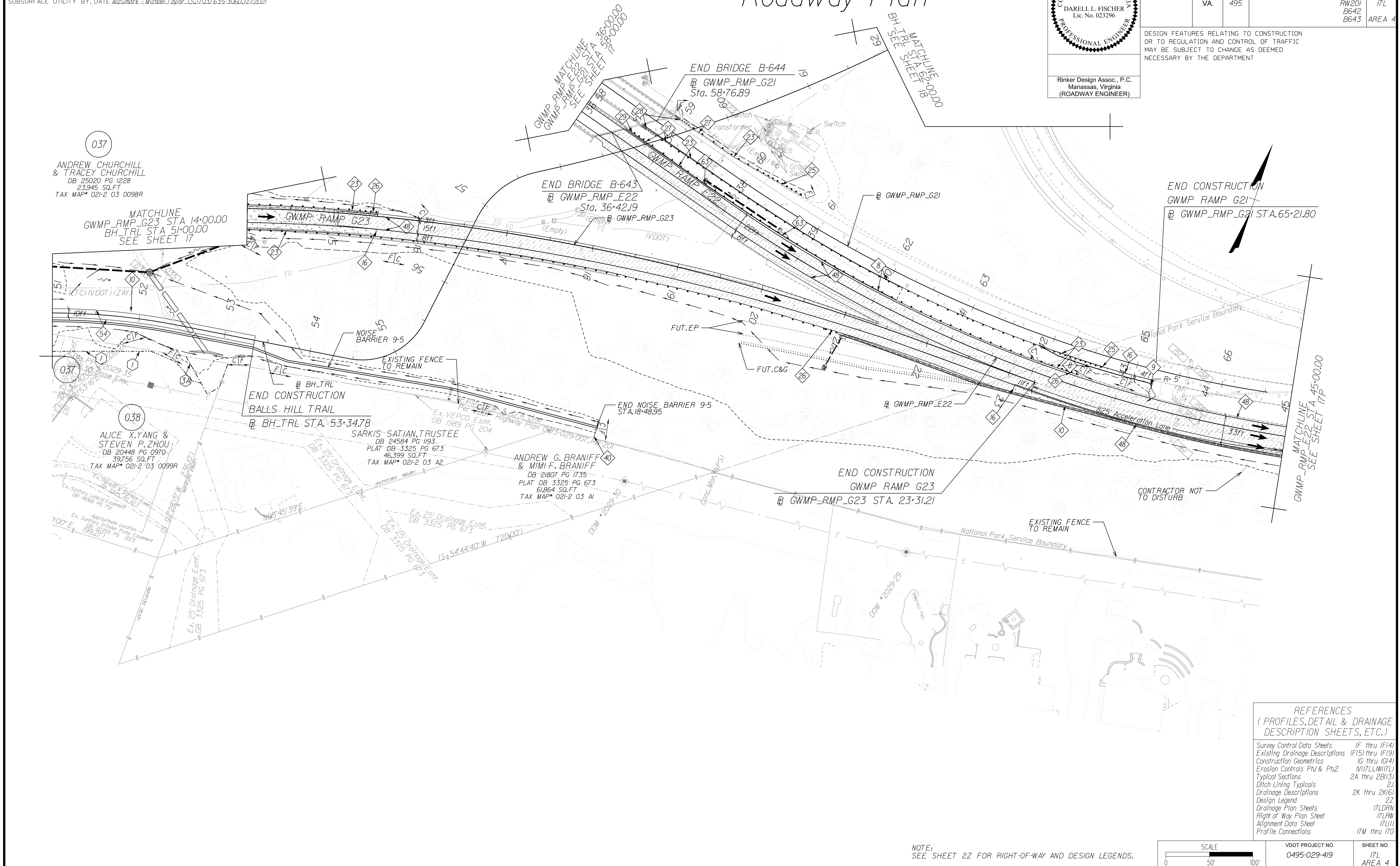
Roadway Plan

COMMONWEALTH OF VIRGINIA
 PROFESSIONAL ENGINEER
 DARELL L. FISCHER
 Lic. No. 023296

Rinker Design Assoc., P.C.
 Manassas, Virginia
 (ROADWAY ENGINEER)

REVISED	STATE	ROUTE	STATE	VDOT PROJECT NO.	SHEET NO.
	VA.	495		0495-029-419 C501 RW201 B642 B643	17L AREA 4

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



037
 ANDREW CHURCHILL & TRACEY CHURCHILL
 DB 25020 PG 1228
 23,945 SQ.FT
 TAX MAP* 021-2 03 0098R

038
 ALICE X. YANG & STEVEN P. ZHOU
 DB 20448 PG 0970
 39,756 SQ.FT
 TAX MAP* 021-2 03 0099R

END CONSTRUCTION
 BALLS HILL TRAIL
 @ BH_TRL STA. 53+34.78

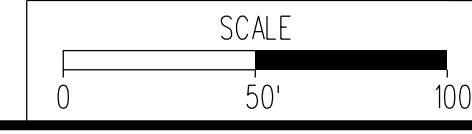
SARKIS-SATIAN TRUSTEE
 DB 24584 PG 1193
 PLAT DB 3325 PG 673
 46,399 SQ.FT
 TAX MAP* 021-2 03 A2

ANDREW G. BRANIFF & MIMI F. BRANIFF
 DB 21807 PG 1735
 PLAT DB 3325 PG 673
 61,864 SQ.FT
 TAX MAP* 021-2 03 A1

REFERENCES
 (PROFILES, DETAIL & DRAINAGE DESCRIPTION SHEETS, ETC.)

Survey Control Data Sheets	1F thru 1F(4)
Existing Drainage Descriptions	1F(5) thru 1F(9)
Construction Geometrics	1G thru 1G(4)
Erosion Controls Ph1 & Ph2	1N(17L), 1N(17L)
Typical Sections	2A thru 2B(13)
Ditch Lining Typical	2J
Drainage Descriptions	2K thru 2K(6)
Design Legend	2Z
Drainage Plan Sheets	17LDRN
Right of Way Plan Sheet	17LRW
Alignment Data Sheet	17L(1)
Profile Connections	17M thru 17O

NOTE:
 SEE SHEET 2Z FOR RIGHT-OF-WAY AND DESIGN LEGENDS.

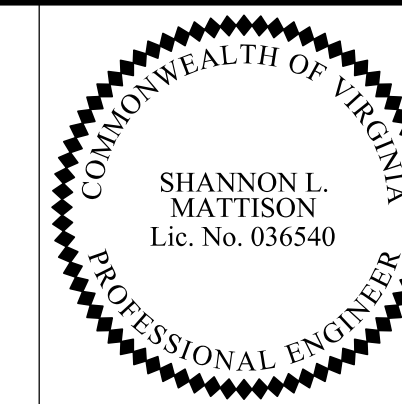


VDOT PROJECT NO.	0495-029-419
SHEET NO.	17L
AREA	4

APPROVED FOR CONSTRUCTION

NOVA DISTRICT

PROJECT MANAGER_VDOT - Rupal Shah, P.E. (703) 259-2362
 SURVEYED BY, DATE_RDA - Nicholas Kaugaulis, L.S. (703) 334-0837, 12/2021
 DESIGN BY_RDA - Darrell Fischer, P.E. (703) 334-0823
 Dewberry - Ron Jakomilich, P.E. (703) 849-0651
 SUBSURFACE UTILITY BY, DATE_Accurmark - Michael Taylor, L.S. (703) 635-3060, 12/2021

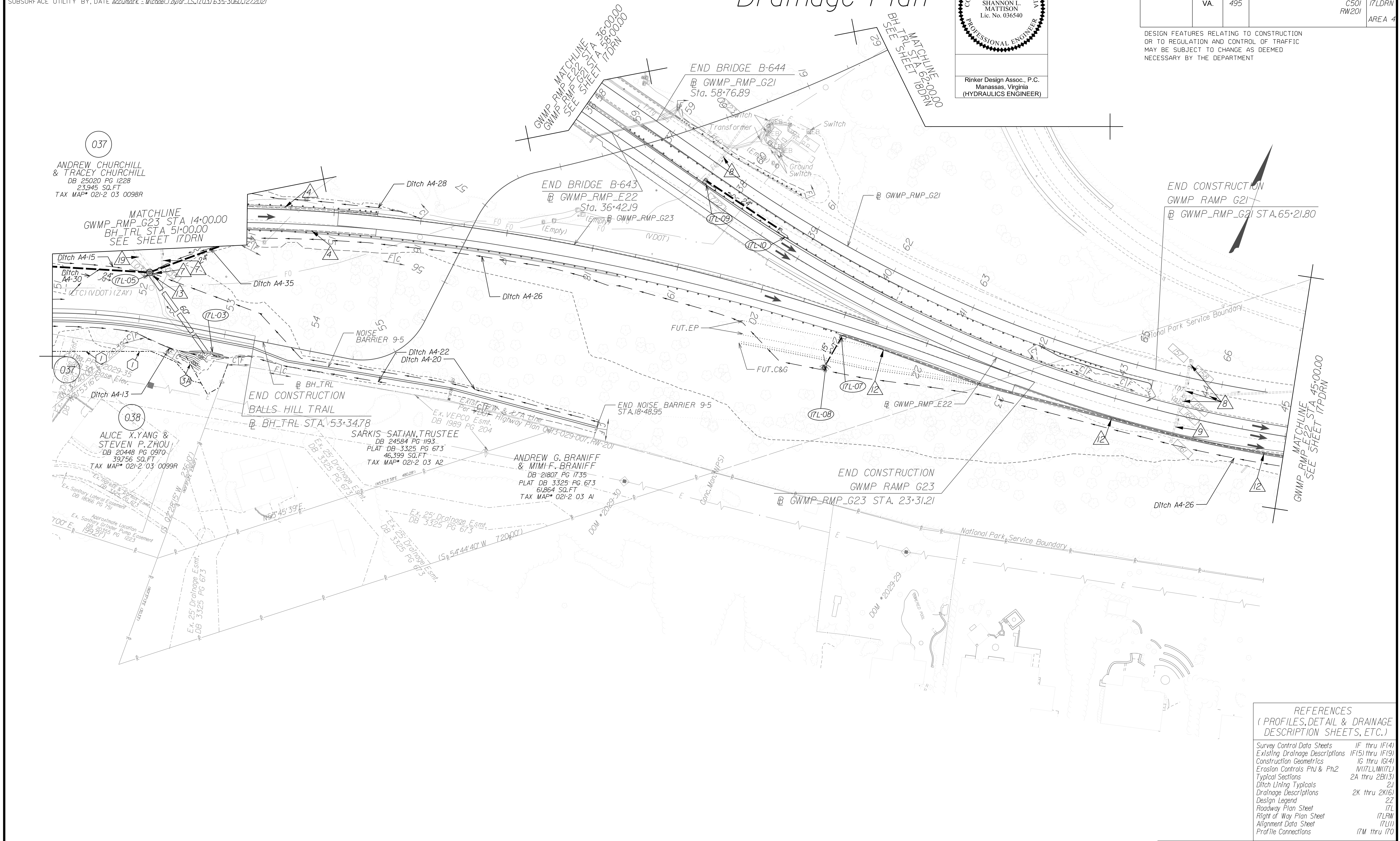


Rinker Design Assoc., P.C.
 Manassas, Virginia
 (HYDRAULICS ENGINEER)

REVISED	STATE	ROUTE	STATE	VDOT PROJECT NO.	SHEET NO.
	VA.	495		0495-029-419 C501 RW201	17LDRN AREA 4

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

Drainage Plan



037
 ANDREW CHURCHILL & TRACEY CHURCHILL
 DB 25020 PG 1228
 23,945 SQ.FT
 TAX MAP* 021-2 03 0098R

038
 ALICE X. YANG & STEVEN P. ZHOU
 DB 20448 PG 0970
 39,756 SQ.FT
 TAX MAP* 021-2 03 0099R

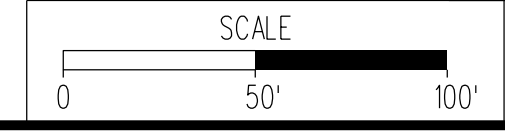
END CONSTRUCTION BALLS HILL TRAIL
 BH_TRL STA. 53+34.78
 SARKIS-SATIAN, TRUSTEE
 DB 24584 PG 1193
 PLAT DB 3325 PG 673
 46,399 SQ.FT
 TAX MAP* 021-2 03 A2

ANDREW G. BRANIFF & MIMI F. BRANIFF
 DB 21807 PG 1735
 PLAT DB 3325 PG 673
 61,864 SQ.FT
 TAX MAP* 021-2 03 A1

REFERENCES
 (PROFILES, DETAIL & DRAINAGE DESCRIPTION SHEETS, ETC.)

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Erosion Controls Ph1 & Ph2	1N(17L), 1N(17L)
Typical Sections	2A thru 2B(13)
Ditch Lining Typical	2J
Drainage Descriptions	2K thru 2K(6)
Design Legend	2Z
Roadway Plan Sheet	17L
Right of Way Plan Sheet	17LRW
Alignment Data Sheet	17L(1)
Profile Connections	17M thru 17O

NOTE:
 SEE SHEET 2Z FOR RIGHT-OF-WAY AND DESIGN LEGENDS.



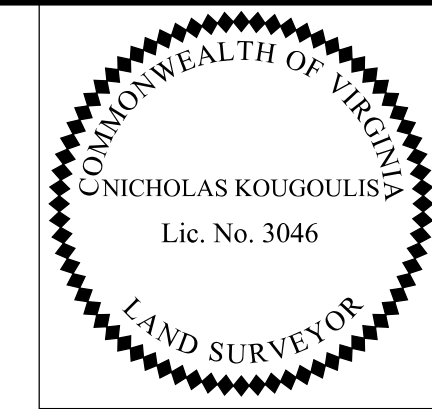
VDOT PROJECT NO.	0495-029-419
SHEET NO.	17LDRN AREA 4

APPROVED FOR CONSTRUCTION

NOVA DISTRICT

PROJECT MANAGER_VDOT - Bitrapal,Shab,PE,(703)259-2362
SURVEYED BY, DATE_BDA - Nicholas.Koungoulis,LS,(703)334-0837,1/2019
DESIGN BY_BDA - Dorell.Elscher,PE,(703)334-0823
Dewberry - Rao.Jakamtach,PE,(703)1849-0651
SUBSURFACE UTILITY BY, DATE_Accumarck - Michelle.Taylor,LS,(703)1635-3060,12/2021

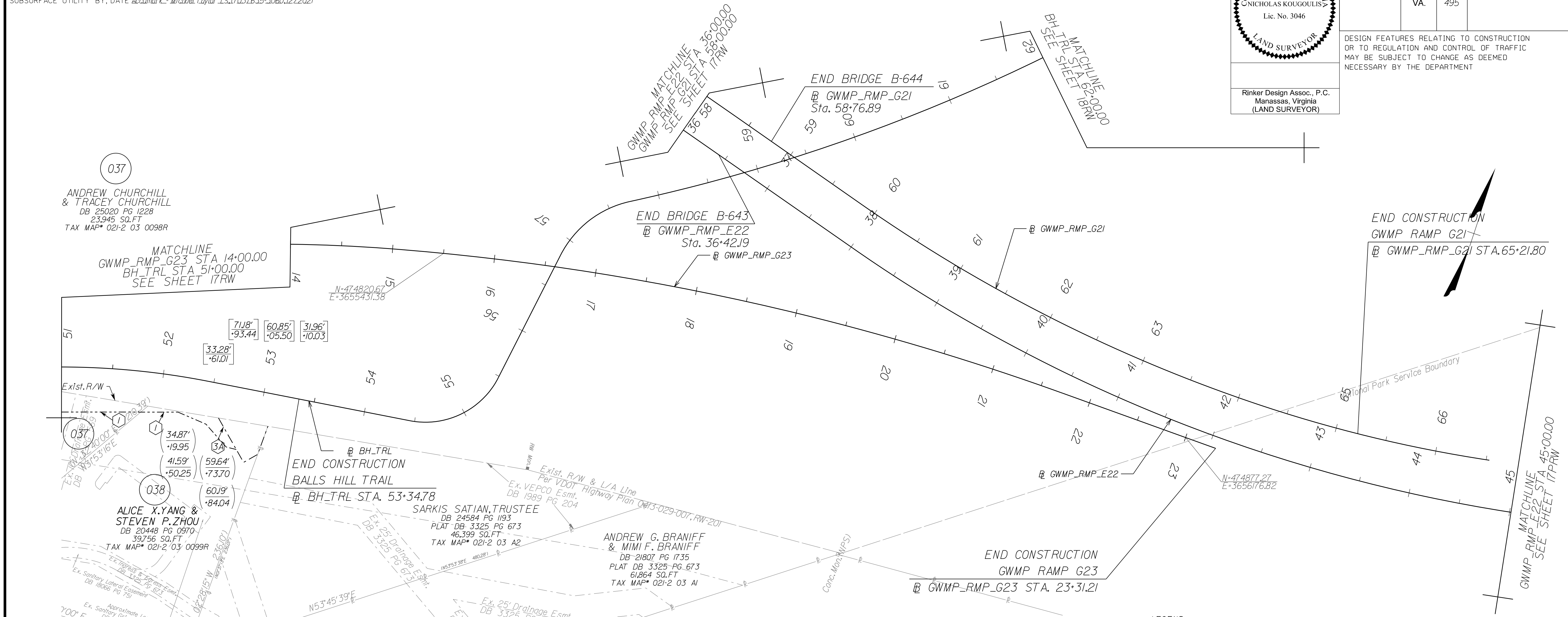
(RW00) Added easement labels per VDOT request.



Rinker Design Assoc., P.C.
Manassas, Virginia
(LAND SURVEYOR)

REVISED	STATE	ROUTE	STATE	VDOT PROJECT NO.	SHEET NO.
RW001	VA	495		0495-029-419 C501 RW201	17LRW AREA 4

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



GENERAL NOTES:

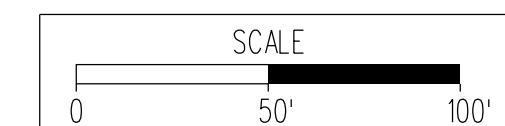
1. SAID PROPERTY LINES ARE BEST FIT BASED ON COMPILED DATA AND DO NOT REPRESENT A BOUNDARY SURVEY.
2. ALL AREAS SHOWN ARE APPROXIMATE ONLY.
3. THIS PLAN SHEET WAS PREPARED WITHOUT THE BENEFIT OF A TITLE REPORT AND MAY NOT SHOW ALL EASEMENTS WHICH MAY AFFECT THE PROPERTY HEREON.
4. NONE OF THE PROPERTY'S PHYSICAL IMPROVEMENTS ARE SHOWN HEREON.
5. NO DESIGNATION OR LOCATION OF SUBSURFACE UTILITIES WAS PERFORMED DURING PREPARATION OF THIS PLAN SHEET.
6. NO CEMETERY SITES WERE OBSERVED ON THE SUBJECT PROPERTY. THIS DOES NOT PRECLUDE THEIR EXISTENCE.
7. THE SURVEY DATUM IS BASED ON THE TITLED VDOT PROJECT.
8. MONUMENTATION TO BE SET UPON COMPLETION OF CONSTRUCTION.

LEGEND

IPF / IRF	EXISTING PROPERTY MARKER	(00.00' / -12.34')	PROPOSED RIGHT-OF-WAY / LIMITED ACCESS	- - - DENOTES PROP. TEMP. CONSTR. EASE. FOR SLOPES	--- DENOTES PROP. TEMP. CONSTR. EASE. FOR ENTRANCES & PARKING LOTS	--- DENOTES PROP. TEMP. CONSTR. EASE. FOR SLOPES	--- DENOTES PROP. TEMP. CONSTR. EASE. FOR SLOPES
---	EXISTING PROPERTY LINE	(00.00' / -12.34')	PROPOSED TEMPORARY EASEMENT	--- DENOTES PROP. TEMP. CONSTR. EASE. FOR ENTRANCES & PARKING LOTS	--- DENOTES PROP. TEMP. CONSTR. EASE. FOR SLOPES	--- DENOTES PROP. TEMP. CONSTR. EASE. FOR SLOPES	--- DENOTES PROP. TEMP. CONSTR. EASE. FOR SLOPES
---	EXISTING R/W LINE	(00.00' / -12.34')	PROPOSED PERMANENT EASEMENT	--- DENOTES PROP. TEMP. CONSTR. EASE. FOR ENTRANCES & PARKING LOTS	--- DENOTES PROP. TEMP. CONSTR. EASE. FOR SLOPES	--- DENOTES PROP. TEMP. CONSTR. EASE. FOR SLOPES	--- DENOTES PROP. TEMP. CONSTR. EASE. FOR SLOPES
---	CONSTRUCTION BASELINE	(00.00' / -12.34')	PROPOSED PERMANENT UTILITY EASEMENT	--- DENOTES PROP. TEMP. CONSTR. EASE. FOR ENTRANCES & PARKING LOTS	--- DENOTES PROP. TEMP. CONSTR. EASE. FOR SLOPES	--- DENOTES PROP. TEMP. CONSTR. EASE. FOR SLOPES	--- DENOTES PROP. TEMP. CONSTR. EASE. FOR SLOPES
•	EXISTING PROPERTY MARKER	(00.00' / -12.34')	VDOT PROJECT COORDINATES	--- DENOTES PROP. TEMP. CONSTR. EASE. FOR ENTRANCES & PARKING LOTS	--- DENOTES PROP. TEMP. CONSTR. EASE. FOR SLOPES	--- DENOTES PROP. TEMP. CONSTR. EASE. FOR SLOPES	--- DENOTES PROP. TEMP. CONSTR. EASE. FOR SLOPES
•	SET RM-2 (SEE NOTES)	(00.00' / -12.34')	VDOT PROJECT COORDINATES	--- DENOTES PROP. TEMP. CONSTR. EASE. FOR ENTRANCES & PARKING LOTS	--- DENOTES PROP. TEMP. CONSTR. EASE. FOR SLOPES	--- DENOTES PROP. TEMP. CONSTR. EASE. FOR SLOPES	--- DENOTES PROP. TEMP. CONSTR. EASE. FOR SLOPES

Curve BH_TRLI6 PI = 51+50.93 DELTA = 14° 19' 15.02" (RT) D = 7' 38" 22" T = 94.22' L = 187.46' R = 750.00' PCC = 50+56.71 PT = 52+44.17 DESIGN SPEED = 18 MPH e = 2.00% Lr = N/A	Curve BH_TRLI7 PI = 55+05.62 DELTA = 7° 07' 09.79" (LT) D = 7' 37" 11" T = 60.42' L = 103.49' R = 80.00' PC = 54+45.21 PT = 55+48.70 DESIGN SPEED = 18 MPH FOR INFORMATION ONLY	Curve BH_TRLI8 PI = 57+30.20 DELTA = 50° 43' 50.98" (RT) D = 57' 17" 45" T = 47.41' L = 88.54' R = 100.00' PC = 56+82.79 PRC = 57+71.33 DESIGN SPEED = 18 MPH FOR INFORMATION ONLY	Curve BH_TRLI9 PI = 60+02.57 DELTA = 14° 42' 48.39" (LT) D = 3' 11" 57" T = 231.24' L = 459.93' R = 1791.03' PRC = 62+31.26 DESIGN SPEED = 18 MPH FOR INFORMATION ONLY
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PROJECT ASSIGNED PARCEL NO.	APPROXIMATE AREAS								
	TOTAL ACRES	PROP. R/W SQ.FT.	FEE REMAINDER ACRES	EASEMENT					
				VDOT UTILITY SQ.FT.	PERMANENT	TEMP. CONSTR.			
				DRAINAGE SQ.FT.	DRAIN. SLOPE SQ.FT.	DRAIN. WALL SQ.FT.	SLOPE SQ.FT.	SLOPES SQ.FT.	ENTRANCES & PARKING LOTS SQ.FT.
037	0.550	1,007	0.527	-	1,526	-	-	5,009	-
038	0.913	-	0.913	-	1,101	-	-	620	-



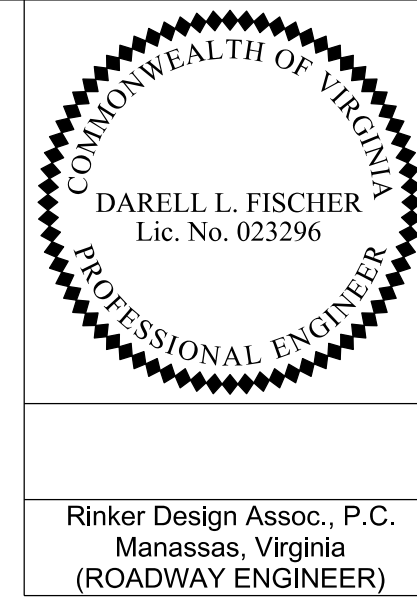
VDOT PROJECT NO.
0495-029-419
SHEET NO.
17LRW
AREA 4

APP. FOR ROW

NOVA DISTRICT

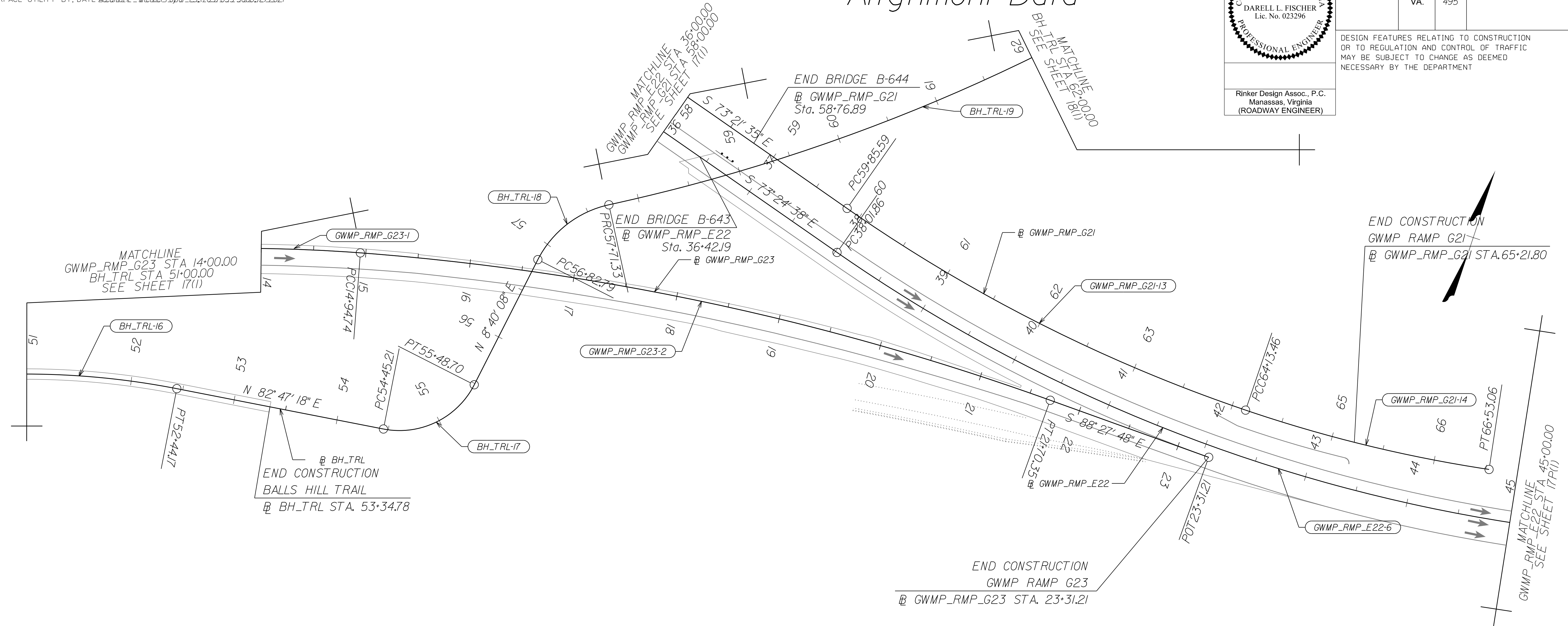
PROJECT MANAGER VDOT - Rupal Shah, P.E. (703) 259-2362
 SURVEYED BY, DATE RDA - Nicholas Kaugall's, L.S. (703) 334-0837, 12/2021
 DESIGN BY RDA - Darrell Fischer, P.E. (703) 334-0823
 SUBSURFACE UTILITY BY, DATE Accumark - Michael Taylor, L.S. (703) 635-3060, 12/2021

Alignment Data



REVISED	STATE	ROUTE	STATE	VDOT PROJECT NO.	SHEET NO.
	VA.	495		0495-029-419 C501 RW201	17(L1) AREA 4

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



Curve GWMP_RMP_G23_001 PI = 12+49.58 DELTA = 18° 38' 56.56" (RT) D = 3' 46' 10" T = 249.58' L = 494.74' R = 1,520.00' PC = 10+00.00 PCC = 14+94.74 DESIGN SPEED = 30 MPH e = 3.00% Lr = 64'	Curve GWMP_RMP_G23_002 PI = 18+34.62 DELTA = 15° 29' 01.57" (RT) D = 2' 17' 31" T = 339.87' L = 675.61' R = 2,500.00' PC = 14+94.74 PT = 21+70.35 DESIGN SPEED = 30 MPH e = 2.00% Lr = 43'	Curve GWMP_RMP_E22_006 PI = 42+88.22 DELTA = 35° 01' 58.25" (LT) D = 3' 43' 05" T = 486.36' L = 942.23' R = 1,541.00' PC = 38+01.86 PT = 47+44.08 DESIGN SPEED = 50 MPH e = 3.60% Lr = 87'	Curve GWMP_RMP_G21_013 PI = 62+00.94 DELTA = 16° 05' 48.07" (LT) D = 3' 45' 43" T = 215.35' L = 427.87' R = 1,523.00' PC = 59+85.59 PT = 64+13.46 DESIGN SPEED = 30 MPH FOR INFORMATION ONLY	Curve GWMP_RMP_G21_014 PI = 65+33.58 DELTA = 10° 13' 02.05" (LT) D = 4' 15' 52" T = 120.12' L = 239.60' R = 1,343.61' PCC = 64+13.46 PT = 66+53.06 DESIGN SPEED = 30 MPH FOR INFORMATION ONLY
Curve BH_TRL16 PI = 51+50.93 DELTA = 14° 19' 15.02" (RT) D = 7' 38' 22" T = 94.22' L = 187.46' R = 750.00' PCC = 50+56.71 PT = 52+44.17 DESIGN SPEED = 18 MPH e = 2.00% Lr = N/A	Curve BH_TRL17 PI = 55+05.62 DELTA = 7° 07' 09.79" (LT) D = 7' 37' 11" T = 60.42' L = 103.49' R = 80.00' PC = 54+45.21 PT = 55+48.70 DESIGN SPEED = 18 MPH FOR INFORMATION ONLY	Curve BH_TRL18 PI = 57+30.20 DELTA = 50° 43' 50.98" (RT) D = 57' 17' 45" T = 47.41' L = 88.54' R = 100.00' PC = 56+82.79 PT = 57+71.33 DESIGN SPEED = 18 MPH FOR INFORMATION ONLY	Curve BH_TRL19 PI = 60+02.57 DELTA = 14° 42' 48.39" (LT) D = 3' 11' 57" T = 231.24' L = 459.93' R = 1,791.03' PCC = 57+71.33 PT = 62+31.26 DESIGN SPEED = 18 MPH FOR INFORMATION ONLY	

REFERENCES
(PROFILES, DETAIL & DRAINAGE DESCRIPTION SHEETS, ETC.)

Survey Control Data Sheets	1F thru 1F(4)
Existing Drainage Descriptions	1F(5) thru 1F(9)
Construction Geometrics	1G thru 1G(4)
Erosion Controls Ph1 & Ph2	1N(1L), 1N(1R)
Typical Sections	2A thru 2B(13)
Drainage Descriptions	2K thru 2K(6)
Design Legend	2Z
Roadway Plan Sheet	17L
Drainage Plan Sheet	17LDRN
Right of Way Plan Sheet	17LRW
Profile Connections	17M thru 17O

SCALE 0 50' 100'	VDOT PROJECT NO. 0495-029-419	SHEET NO. 17(L1) AREA 4
---------------------	----------------------------------	-------------------------------

APPROVED FOR CONSTRUCTION

NOVA DISTRICT

10/26/2022

PROJECT MANAGER_VDOT - Rimal Stab PE, (703) 259-2362
SURVEYED BY, DATE - BDA - Nicolas Kougoullis LS, (703) 334-0837, 12/2021
DESIGN BY - BDA - Darell Fischer PE, (703) 334-0823
SUBSURFACE UTILITY BY, DATE - Accumar - Michael Taylor LS, (703) 635-3060, 12/2021

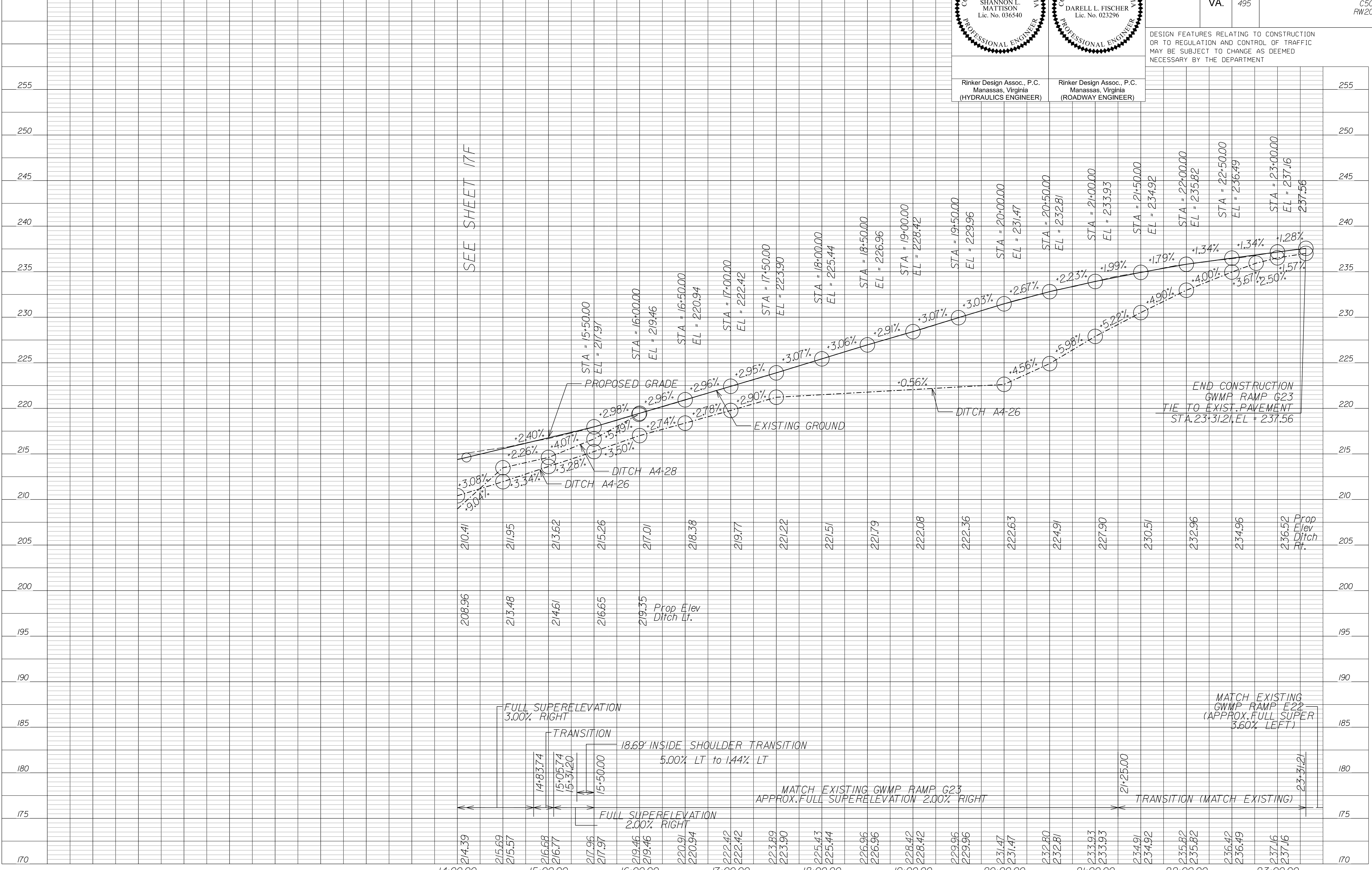
George Washington Memorial Pkwy Ramp G23

Rinker Design Assoc., P.C.
Manassas, Virginia
(HYDRAULICS ENGINEER)

Rinker Design Assoc., P.C.
Manassas, Virginia
(ROADWAY ENGINEER)

REVISED	STATE	ROUTE	STATE PROJECT	SHEET NO
	VA.	495	0495-029-419 C501 RW201	17M AREA 4

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



NOVA DISTRICT

10/26/2022

APPROVED FOR CONSTRUCTION

SCALE HORIZ: 1"=50'

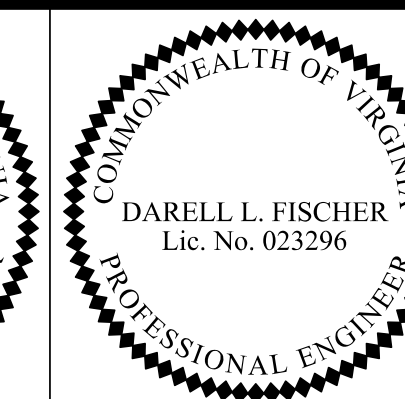
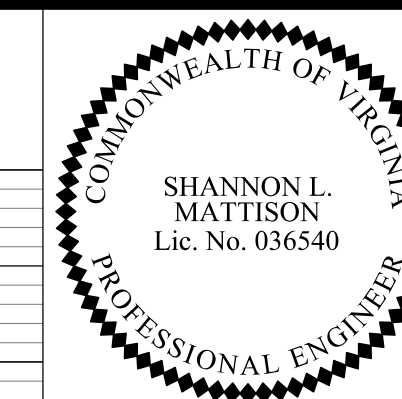
VERT: 1"=5'

VDOT PROJECT NO. 0495-029-419

SHEET NO. 17M AREA 4

PROJECT MANAGER_VDOT - Rimal Stab PE (703) 259-2362
SURVEYED BY_DATE - BDA - Nicholas Kougoullis LS (703) 334-0837 J2/2021
DESIGN BY_BDA - Darell Elischer PE (703) 334-0823
SUBSURFACE UTILITY BY_DATE Accumark - Michael Taylor LS (703) 635-3060 J2/2021

Balls Hill Shared Use Path

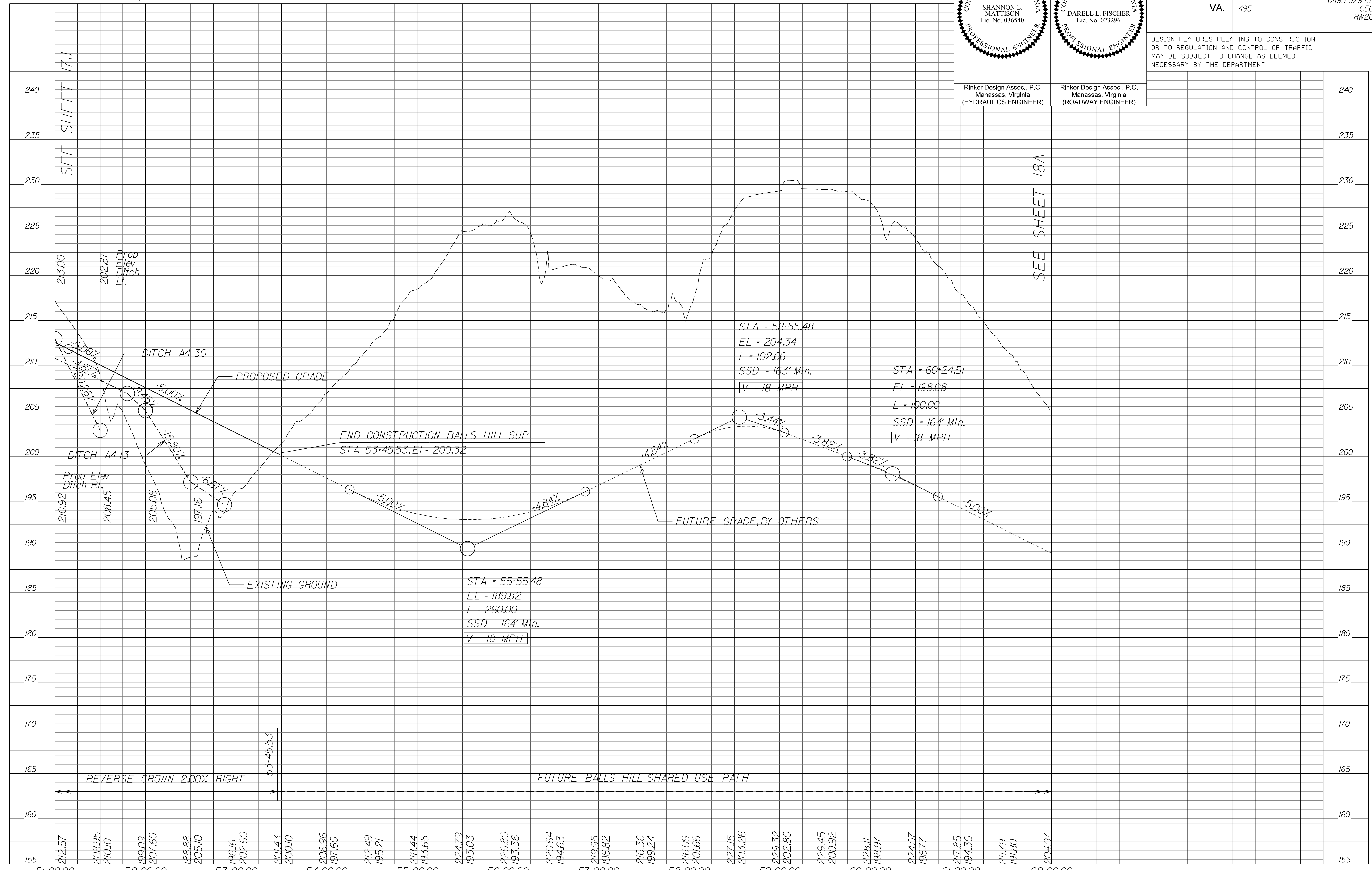


Rinker Design Assoc., P.C.
Manassas, Virginia
(HYDRAULICS ENGINEER)

Rinker Design Assoc., P.C.
Manassas, Virginia
(ROADWAY ENGINEER)

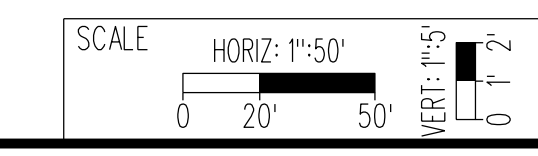
REVISED	STATE	ROUTE	STATE PROJECT	SHEET NO.
	VA.	495	0495-029-419 CS01 RW201	17N AREA 4

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



NOVA DISTRICT

10/26/2022



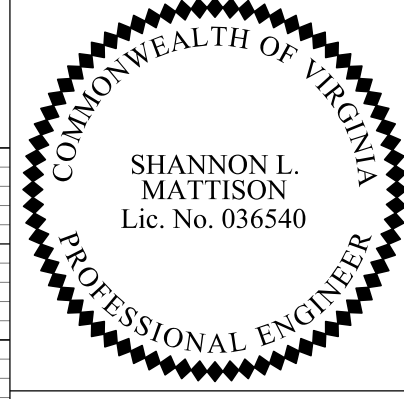
VDOT PROJECT NO.
0495-029-419

SHEET NO.
17N
AREA 4

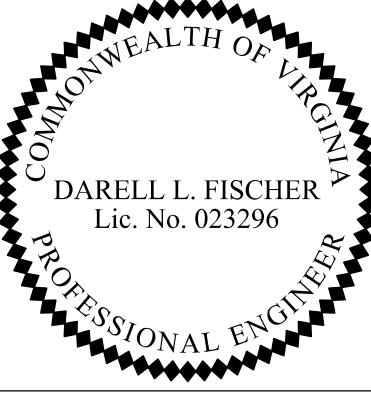
APPROVED FOR CONSTRUCTION

PROJECT MANAGER_VDOT - Rimal Stab PE, (703) 259-2362
 SURVEYED BY, DATE - Nicholas Kougoullis LS, (703) 334-0837, 12/2021
 DESIGN BY - DARELL FISCHER PE, (703) 334-0823
 SUBSURFACE UTILITY BY, DATE Accumark - Michael Taylor LS, (703) 635-3060, 12/2021

George Washington Memorial Pkwy Ramp E22



SHANNON L. MATTISON
Lic. No. 036540
PROFESSIONAL ENGINEER



DARELL L. FISCHER
Lic. No. 023296
PROFESSIONAL ENGINEER

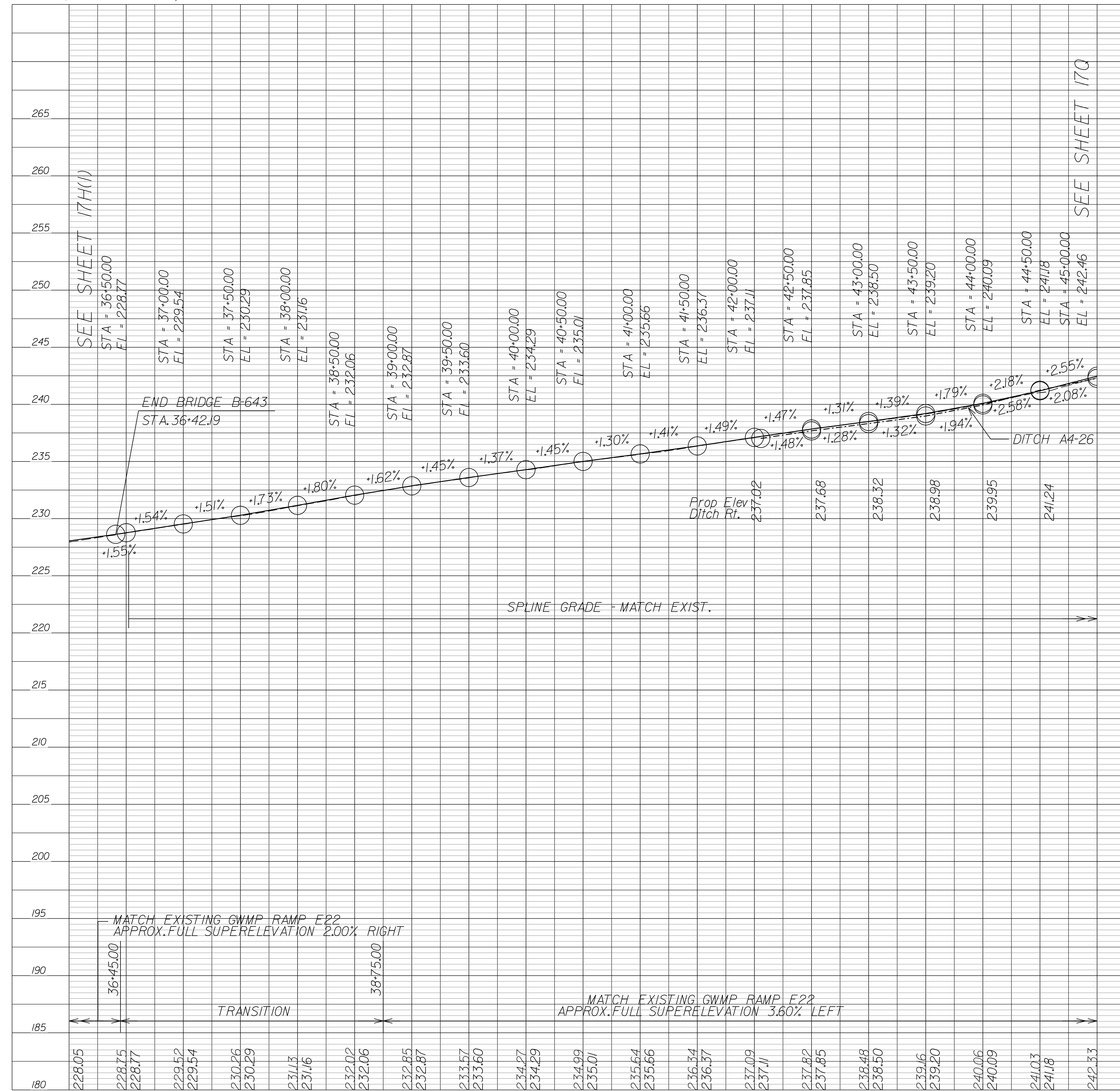
Rinker Design Assoc., P.C.
Manassas, Virginia
(HYDRAULICS ENGINEER)

Rinker Design Assoc., P.C.
Manassas, Virginia
(ROADWAY ENGINEER)

REVISED	STATE	ROUTE	STATE PROJECT	SHEET NO
	VA.	495	0495-029-419 C501 RW201 B643	170 AREA 4

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

					265
					260
					255
					250
					245
					240
					235
					230
					225
					220
					215
					210
					205
					200
					195
					190
					185
					180



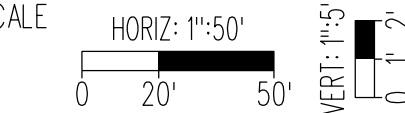
NOVA DISTRICT

10/26/2022

SCALE

HORIZ: 1"=50'

VERT: 1"=5'



VDOT PROJECT NO.
0495-029-419

SHEET NO.
170
AREA 4

APPROVED FOR CONSTRUCTION

PROJECT MANAGER_VDOT - Rupal Shah, P.E. (703) 259-2362
SURVEYED BY, DATE_RDA - Nicholas Kougoullis, L.S. (703) 334-0837, 12/2021
DESIGN BY_RDA - Darrell Fischer, P.E. (703) 334-0823
SUBSURFACE UTILITY BY, DATE_Accumark - Michael Taylor, L.S. (703) 635-3060, 12/2021

Roadway Plan

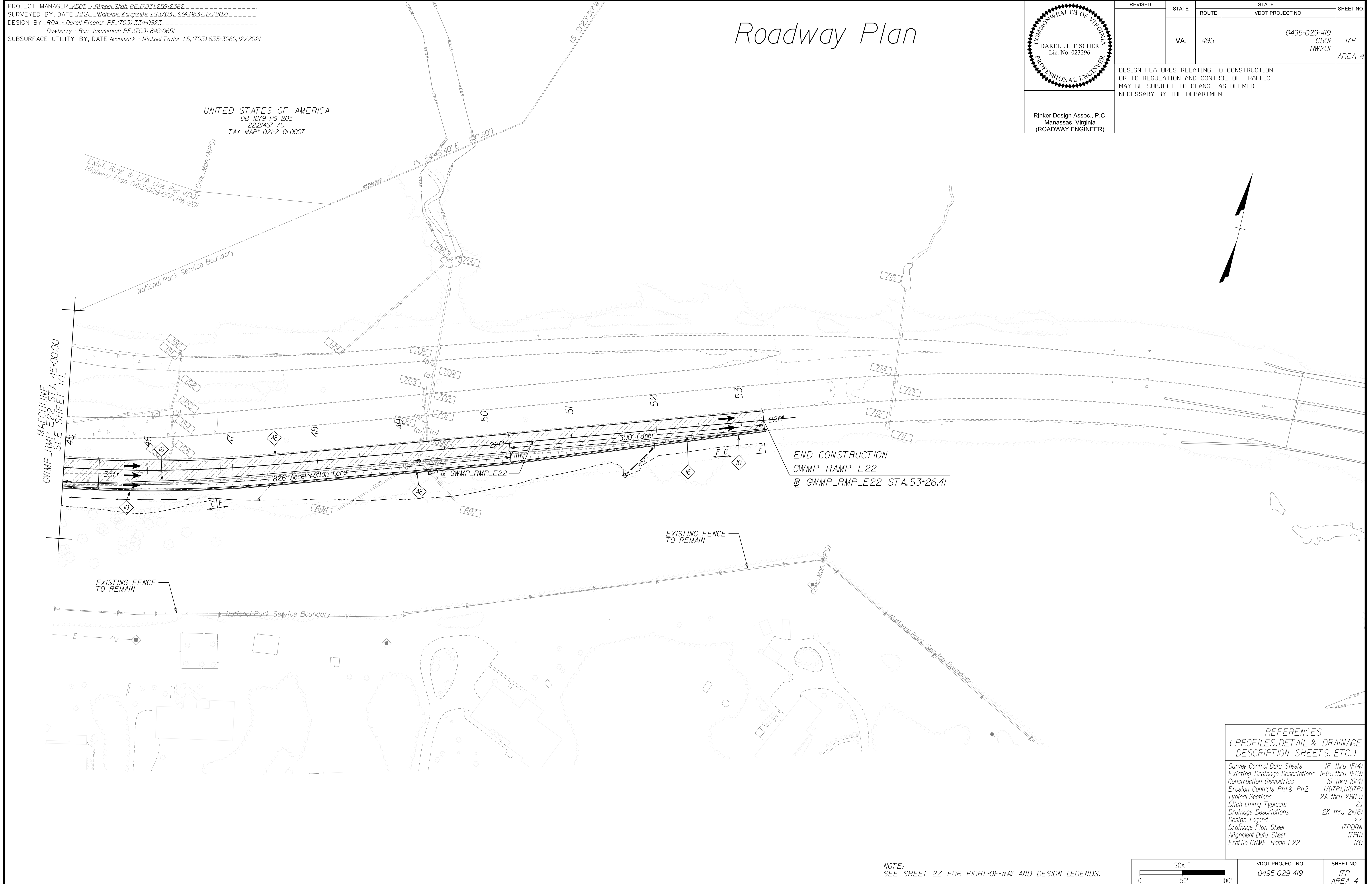
COMMONWEALTH OF VIRGINIA
PROFESSIONAL ENGINEER
DARELL L. FISCHER
Lic. No. 023296

Rinker Design Assoc., P.C.
Manassas, Virginia
(ROADWAY ENGINEER)

REVISED	STATE	ROUTE	STATE	VDOT PROJECT NO.	SHEET NO.
	VA.	495		0495-029-419 C501 RW201	17P AREA 4

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

UNITED STATES OF AMERICA
DB 1879 PG. 205
22.21467 AC
TAX MAP* 021-2 01 0007



END CONSTRUCTION
GWMP RMP E22
@ GWMP_RMP_E22 STA. 53+26.41

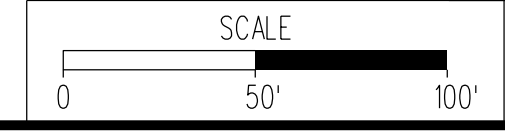
EXISTING FENCE TO REMAIN

EXISTING FENCE TO REMAIN

REFERENCES
(PROFILES, DETAIL & DRAINAGE DESCRIPTION SHEETS, ETC.)

Survey Control Data Sheets	1F thru 1F(4)
Existing Drainage Descriptions	1F(5) thru 1F(9)
Construction Geometrics	1G thru 1G(4)
Erosion Controls Ph1 & Ph2	1I(7P), 1I(7P)
Typical Sections	2A thru 2B(13)
Ditch Lining Typical	2J
Drainage Descriptions	2K thru 2K(6)
Design Legend	2Z
Drainage Plan Sheet	17PDRN
Alignment Data Sheet	17P(1)
Profile GWMP Ramp E22	17Q

NOTE:
SEE SHEET 2Z FOR RIGHT-OF-WAY AND DESIGN LEGENDS.



VDOT PROJECT NO. 0495-029-419	SHEET NO. 17P AREA 4
----------------------------------	----------------------------

APPROVED FOR CONSTRUCTION

NOVA DISTRICT

PROJECT MANAGER_VDOT - Riprap, PE, (703) 259-2362
SURVEYED BY, DATE_RDA - Nicholas, Kougoullis, LS, (703) 334-0837, 12/2021
DESIGN BY_RDA - Darrell, Fischer, PE, (703) 334-0823
SUBSURFACE UTILITY BY, DATE_Accumark - Michael, Taylor, LS, (703) 635-3060, 12/2021

Drainage Plan

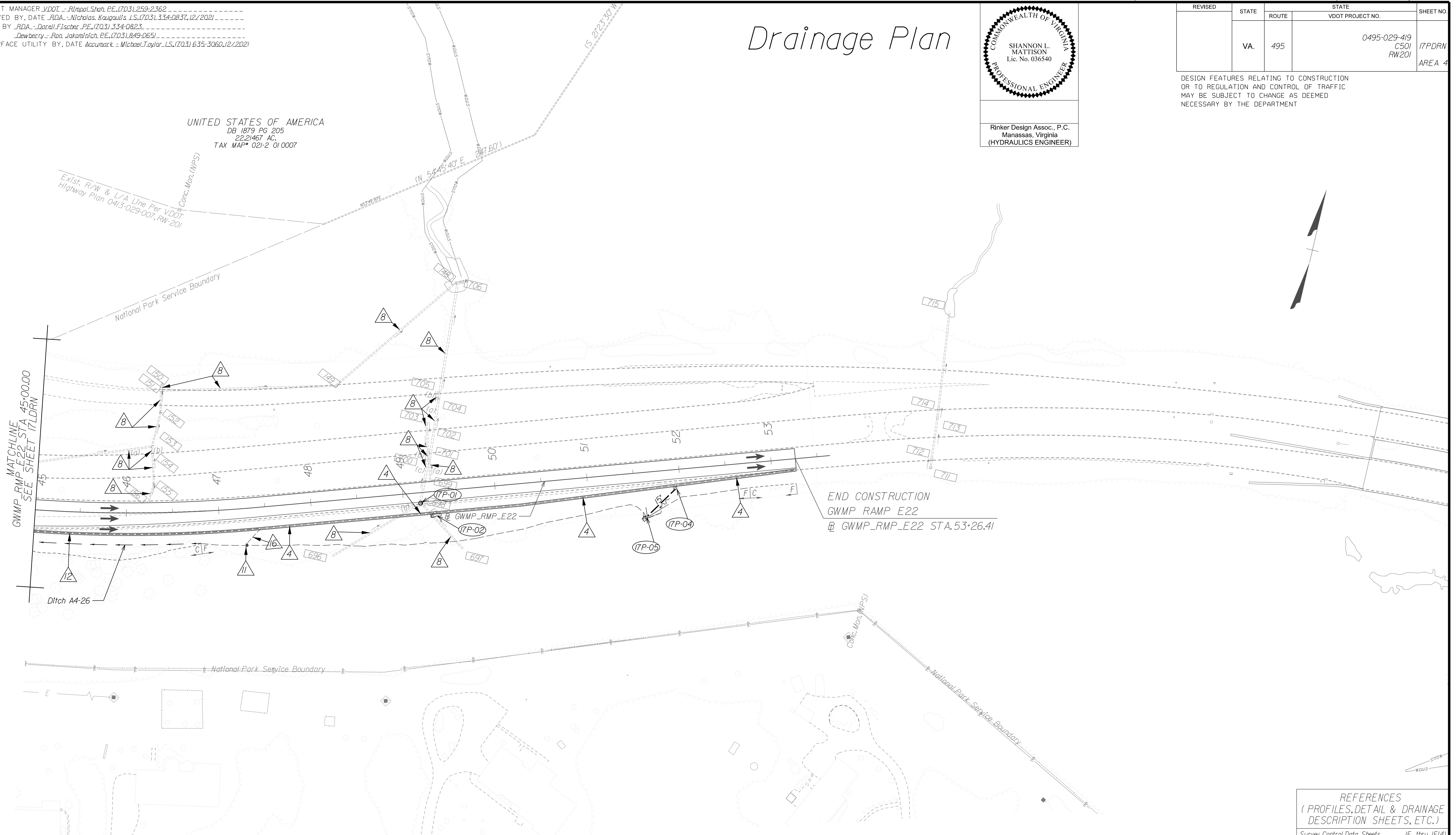
SHANNON L. MATTISON
Lic. No. 036540
PROFESSIONAL ENGINEER

Rinker Design Assoc., P.C.
Manassas, Virginia
(HYDRAULICS ENGINEER)

REVISED	STATE	ROUTE	STATE	VDOT PROJECT NO.	SHEET NO.
	VA.	495		0495-029-419 C501 RW201	17PDRN AREA 4

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

UNITED STATES OF AMERICA
DB 1879 PG. 205
22.2467 AC
TAX MAP* 021-2 01 0007



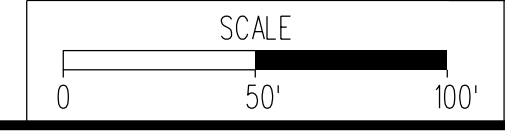
NOVA DISTRICT

10/26/2022

REFERENCES
(PROFILES, DETAIL & DRAINAGE DESCRIPTION SHEETS, ETC.)

Survey Control Data Sheets	1F thru 1F(4)
Existing Drainage Descriptions	1F(5) thru 1F(9)
Construction Geometrics	1G thru 1G(4)
Erosion Controls Ph1 & Ph2	1I(17P), 1I(17P)
Typical Sections	2A thru 2B(13)
Ditch Lining Typical	2J
Drainage Descriptions	2K thru 2K(6)
Design Legend	2Z
Roadway Plan Sheet	17P
Alignment Data Sheet	17P(1)
Profile GWMP Ramp E22	17Q

NOTE:
SEE SHEET 2Z FOR RIGHT-OF-WAY AND DESIGN LEGENDS.



VDOT PROJECT NO.	0495-029-419
SHEET NO.	17PDRN AREA 4

APPROVED FOR CONSTRUCTION

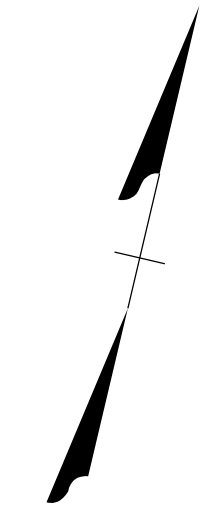
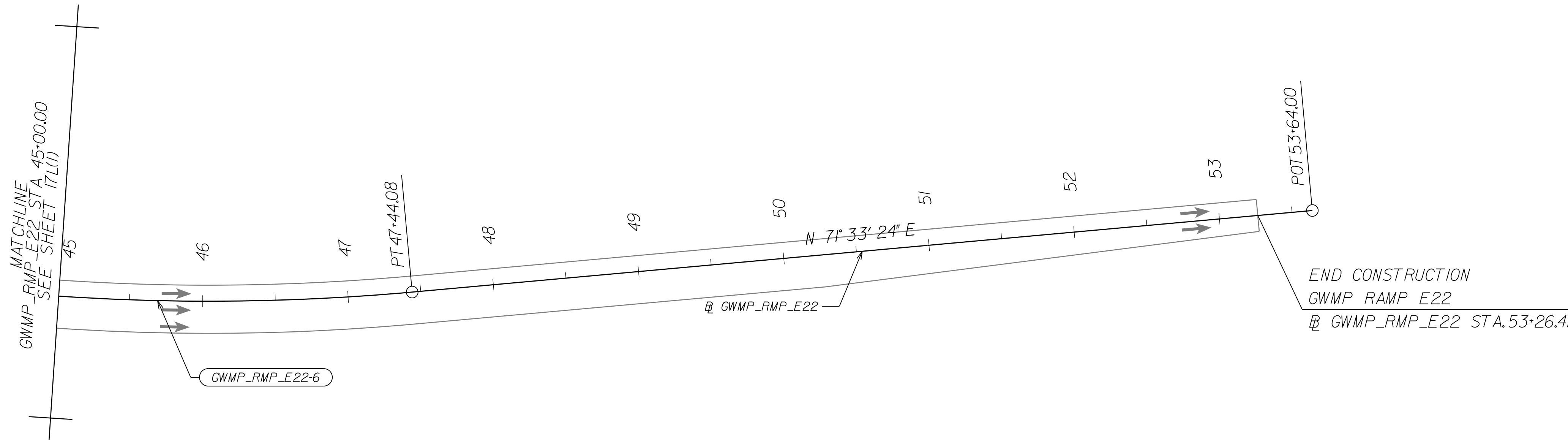
PROJECT MANAGER_VDOT - Rupal Shah, P.E. (703) 259-2362
 SURVEYED BY, DATE_RDA - Nicholas Kougaull's, LS (703) 334-0837, 12/2021
 DESIGN BY_RDA - Darrell Fischer, P.E. (703) 334-0823
 SUBSURFACE UTILITY BY, DATE_Accumark - Michael Taylor, LS (703) 635-3060, 12/2021

Alignment Data

Rinker Design Assoc., P.C.
 Manassas, Virginia
 (ROADWAY ENGINEER)

REVISED	STATE	ROUTE	STATE	VDOT PROJECT NO.	SHEET NO.
	VA.	495		0495-029-419 C501 RW201	17P(1) AREA 4

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

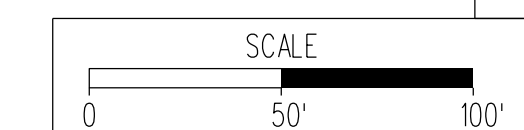


NOVA DISTRICT

Curve GWMP_RMP_E22_006
 PI = 42+88.22
 DELTA = 35° 01' 58.25" (LT)
 D = 3' 43" 05"
 T = 486.36'
 L = 942.23'
 R = 1,541.00'
 PC = 38+01.86
 PT = 47+44.08
 DESIGN SPEED = 50 MPH
 e = 3.60%
 Lr = 87'

REFERENCES (PROFILES, DETAIL & DRAINAGE DESCRIPTION SHEETS, ETC.)

Survey Control Data Sheets	1F thru 1F(4)
Existing Drainage Descriptions	1F(5) thru 1F(9)
Construction Geometrics	1G thru 1G(4)
Erosion Controls Ph1 & Ph2	1I(7P), 1I(7P)
Typical Sections	2A thru 2B(13)
Drainage Descriptions	2K thru 2K(6)
Design Legend	2Z
Roadway Plan Sheet	17P
Drainage Plan Sheet	17PDR
Profile GWMP Ramp E22	17Q

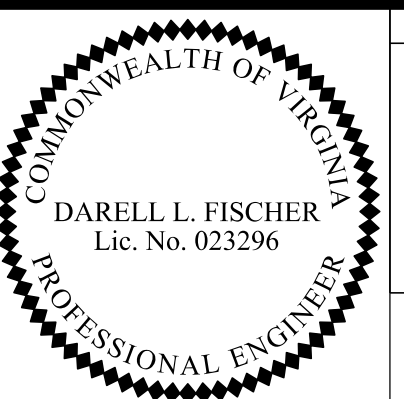
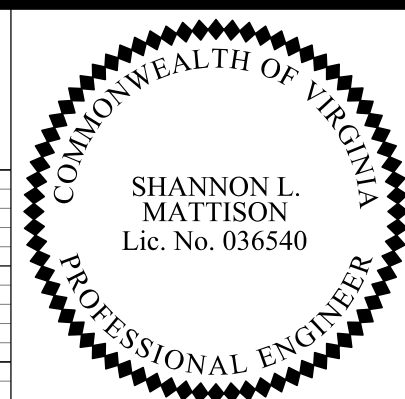


VDOT PROJECT NO.	0495-029-419
SHEET NO.	17P(1) AREA 4

APPROVED FOR CONSTRUCTION

PROJECT MANAGER_VDOT - Rimpal Stab PE, (703) 259-2362
SURVEYED BY, DATE - Nicolas Kougoullis, LS, (703) 334-0837, 12/2021
DESIGN BY - BDA - Darell Fischer, PE, (703) 334-0823
SUBSURFACE UTILITY BY, DATE Accumark - Michael Taylor, LS, (703) 635-3060, 12/2021

George Washington Memorial Pkwy Ramp E22

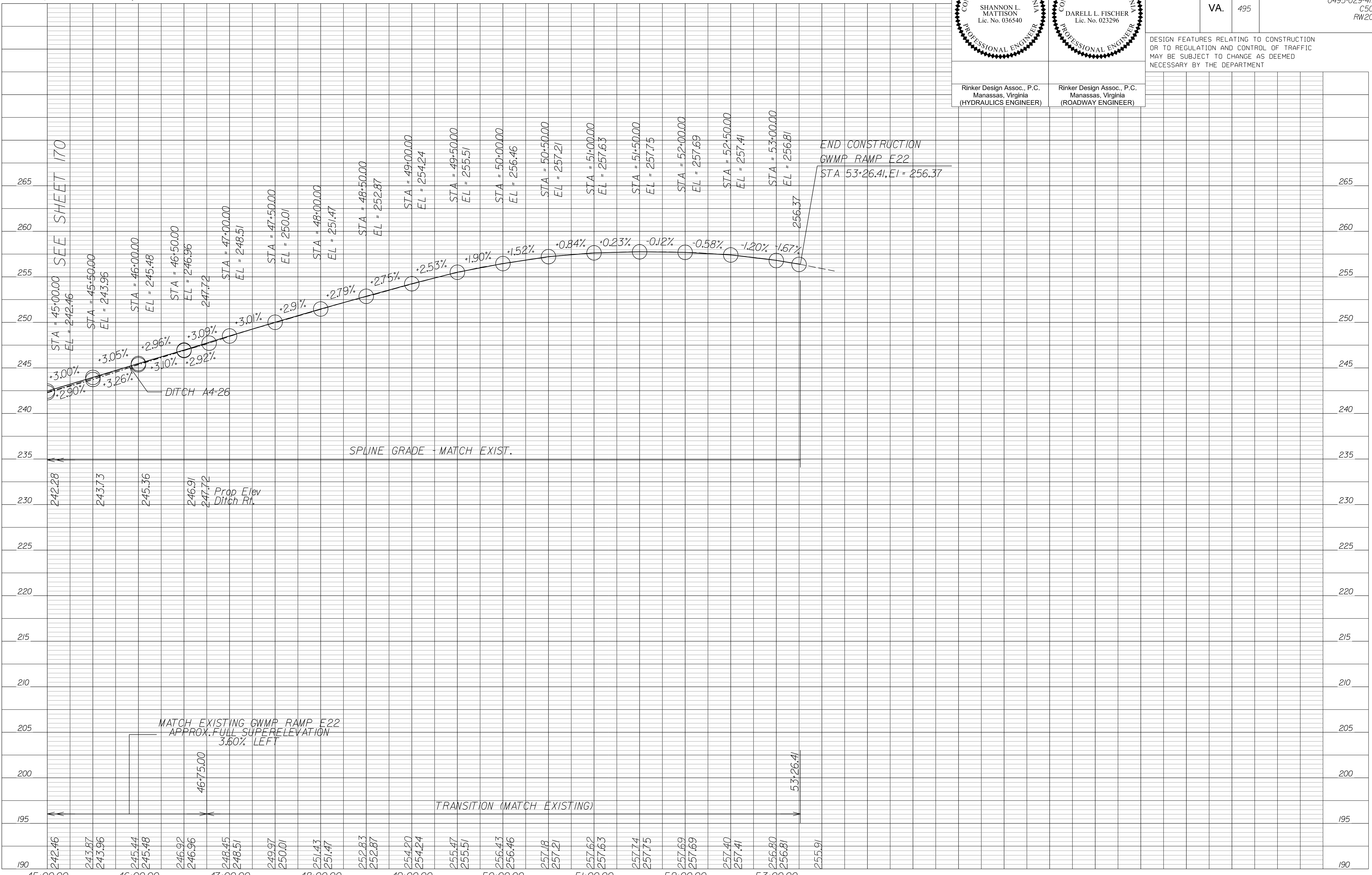


REVISED	STATE	ROUTE	STATE PROJECT	SHEET NO.
	VA.	495	0495-029-419 C501 RW201	17Q AREA 4

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

Rinker Design Assoc., P.C.
Manassas, Virginia
(HYDRAULICS ENGINEER)

Rinker Design Assoc., P.C.
Manassas, Virginia
(ROADWAY ENGINEER)



NOVA DISTRICT

10/26/2022

SCALE: HORIZ: 1"=50' VERT: 1"=5'

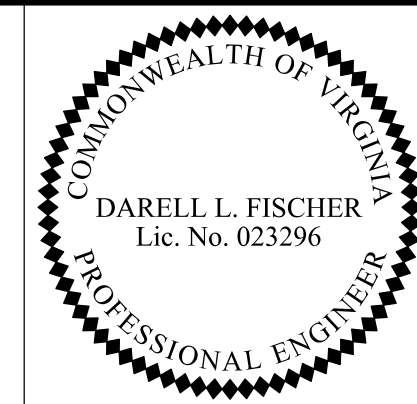
VDOT PROJECT NO. 0495-029-419

SHEET NO. 17Q AREA 4

APPROVED FOR CONSTRUCTION

PROJECT MANAGER_VDOT - Rupal Shah, P.E. (703) 259-2362
SURVEYED BY, DATE_RDA - Nicholas Kaugaulis, L.S. (703) 334-0837, 12/2021
DESIGN BY_RDA - Darrell Fischer, P.E. (703) 334-0823
SUBSURFACE UTILITY BY, DATE_Accumark - Michael Taylor, L.S. (703) 635-3060, 12/2021

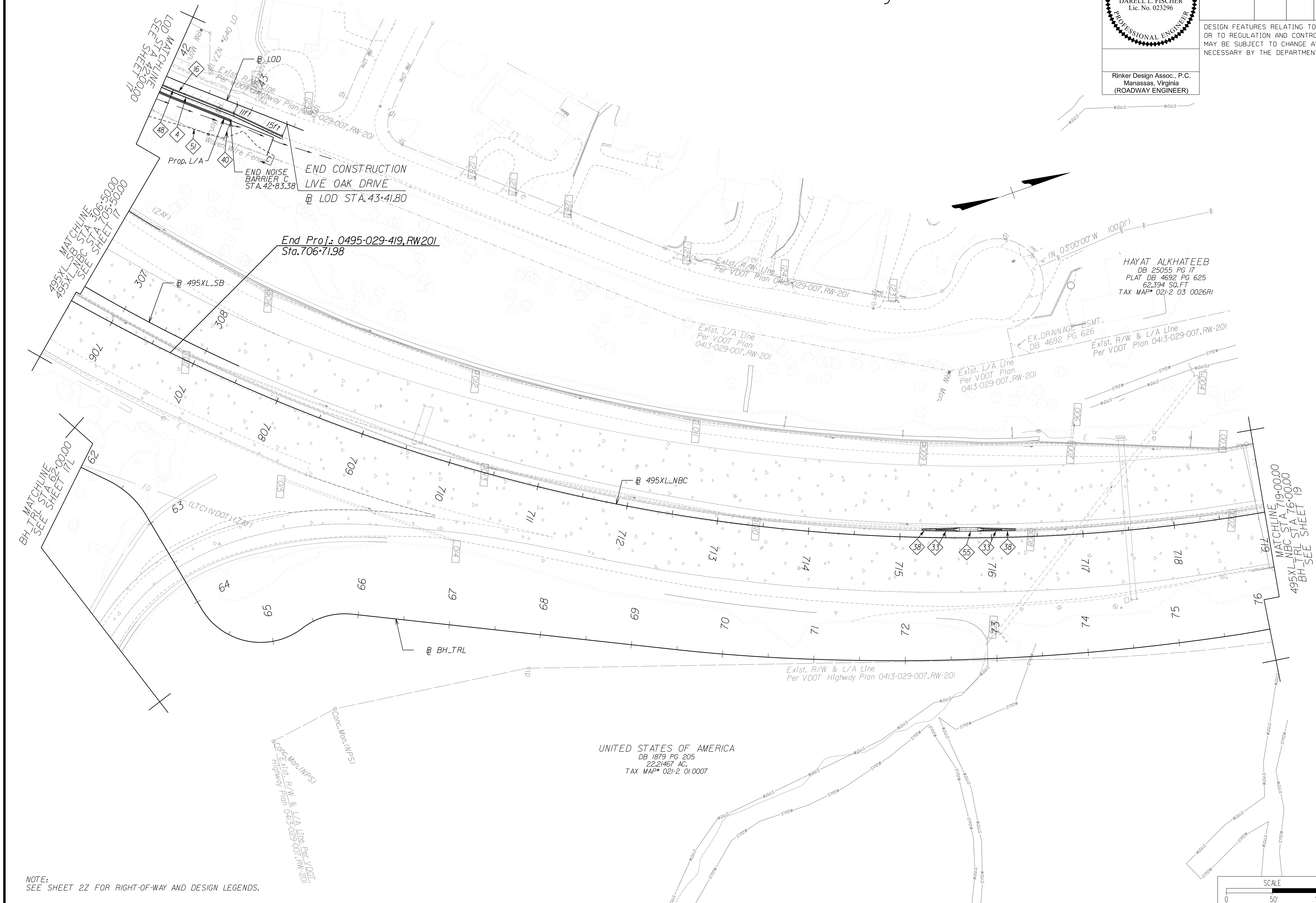
Roadway Plan



Rinker Design Assoc., P.C.
Manassas, Virginia
(ROADWAY ENGINEER)

REVISED	STATE	ROUTE	STATE	VDOT PROJECT NO.	SHEET NO.
	VA.	495		0495-029-419 C501 RW201	18 AREA 4

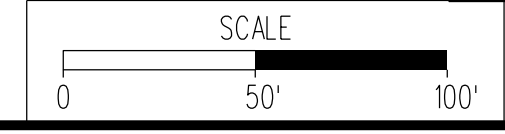
DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT



NOTE: SEE SHEET 22 FOR RIGHT-OF-WAY AND DESIGN LEGENDS.

REFERENCES
(PROFILES, DETAIL & DRAINAGE DESCRIPTION SHEETS, ETC.)

Survey Control Data Sheets	IF thru IF(4)
Existing Drainage Descriptions	IF(5) thru IF(9)
Construction Geometrics	IG thru IG(4)
Erosion Controls Ph1 & Ph2	IV(18), IV(18)
Typical Sections	2A thru 2B(13)
Ditch Lining Typicals	21
Drainage Descriptions	2K thru 2K(6)
Design Legend	22
Drainage Plan Sheet	18DRN
Right of Way Plan Sheet	18RW
Alignment Data Sheet	18(1)
Profile Balls Hill SUP	18A
Profile Live Oak Drive	18B



VDOT PROJECT NO.	SHEET NO.
0495-029-419	18
	AREA 4

APPROVED FOR CONSTRUCTION

NOVA DISTRICT

PROJECT MANAGER_VDOT - Rupal Shah, PE, (703) 259-2362
SURVEYED BY, DATE_RDA - Nicholas Kaugaulis, LS, (703) 334-0837, 12/2021
DESIGN BY_RDA - Darrell Fischer, PE, (703) 334-0823
SUBSURFACE UTILITY BY, DATE_Accurmak - Michael Taylor, LS, (703) 635-3060, 12/2021

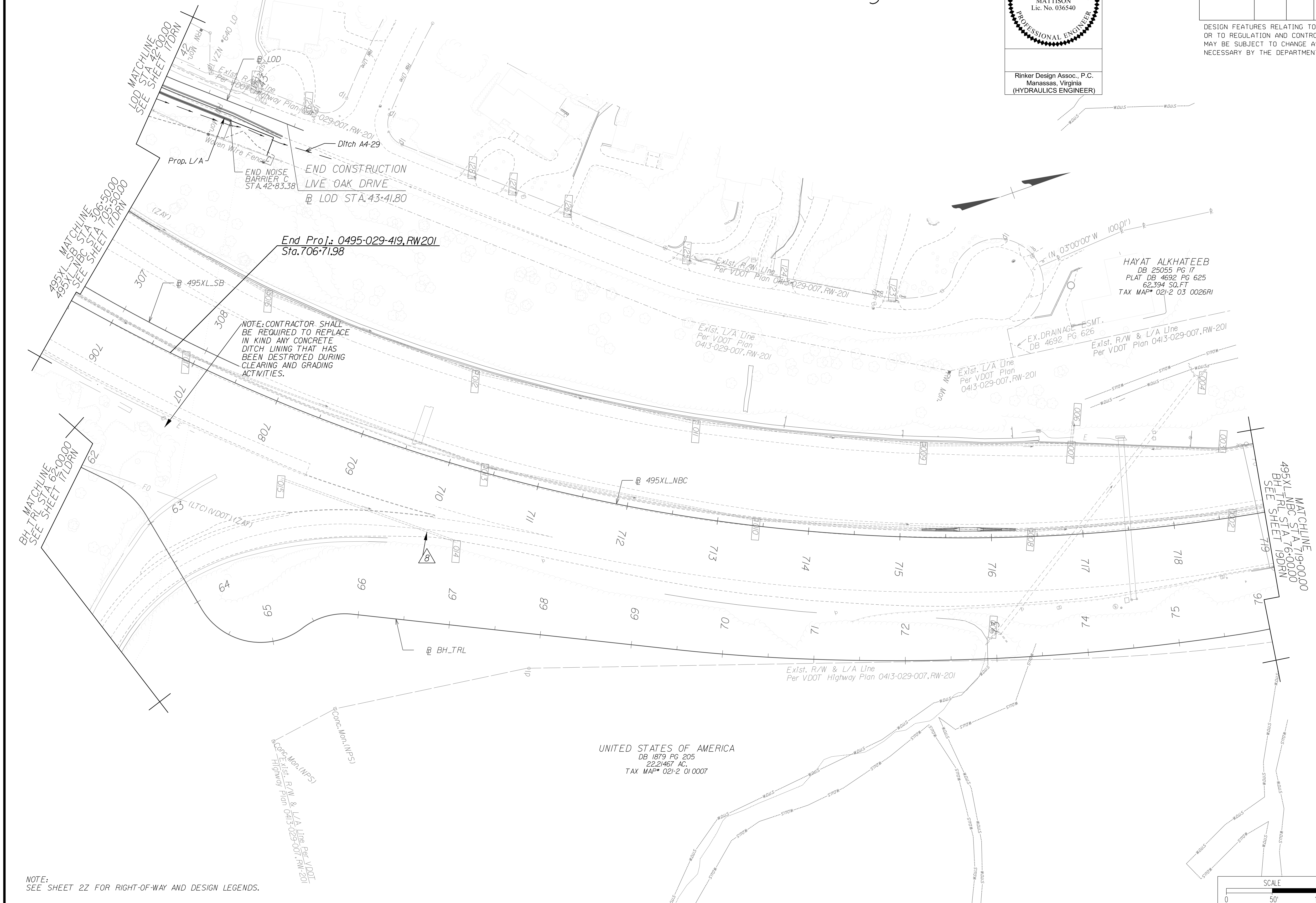
Drainage Plan

COMMONWEALTH OF VIRGINIA
SHANNON L. MATTISON
Lic. No. 036540
PROFESSIONAL ENGINEER

Rinker Design Assoc., P.C.
Manassas, Virginia
(HYDRAULICS ENGINEER)

REVISED	STATE	ROUTE	STATE	VDOT PROJECT NO.	SHEET NO.
	VA.	495		0495-029-419 C501 RW201	18DRN AREA 4

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



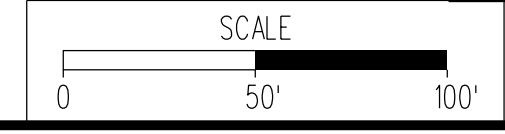
NOVA DISTRICT

10/26/2022

NOTE: SEE SHEET 22 FOR RIGHT-OF-WAY AND DESIGN LEGENDS.

REFERENCES
(PROFILES, DETAIL & DRAINAGE DESCRIPTION SHEETS, ETC.)

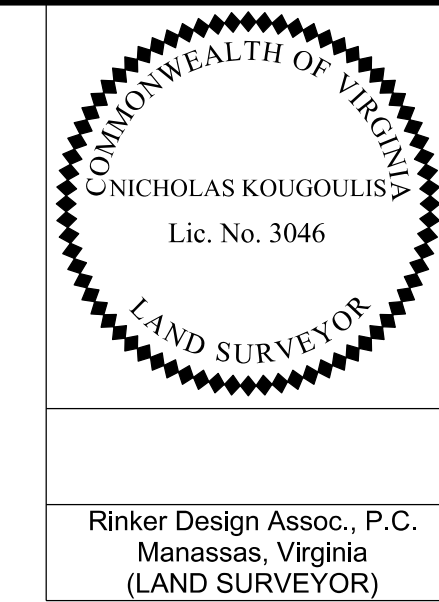
Survey Control Data Sheets	IF thru IF(4)
Existing Drainage Descriptions	IF(5) thru IF(9)
Construction Geometrics	IG thru IG(4)
Erosion Controls PhJ & Ph2	IV(18), IV(18)
Typical Sections	2A thru 2B(3)
Ditch Lining Typicals	2J
Drainage Descriptions	2K thru 2K(6)
Design Legend	2Z
Roadway Plan Sheet	1B
Right of Way Plan Sheet	1BRW
Alignment Data Sheet	1B(1)
Profile Balls Hill SUP	1BA
Profile Live Oak Drive	1BB



VDOT PROJECT NO.	SHEET NO.
0495-029-419	18DRN
	AREA 4

APPROVED FOR CONSTRUCTION

PROJECT MANAGER VDOT - Rupal Shah, P.E. (703) 259-2362
 SURVEYED BY, DATE RDA - Nicholas Kougoulis, L.S. (703) 334-0837, 1/2019
 DESIGN BY RDA - Darrell Fischer, P.E. (703) 334-0823
 SUBSURFACE UTILITY BY, DATE Accumark - Michael Taylor, L.S. (703) 635-3060, 12/2021

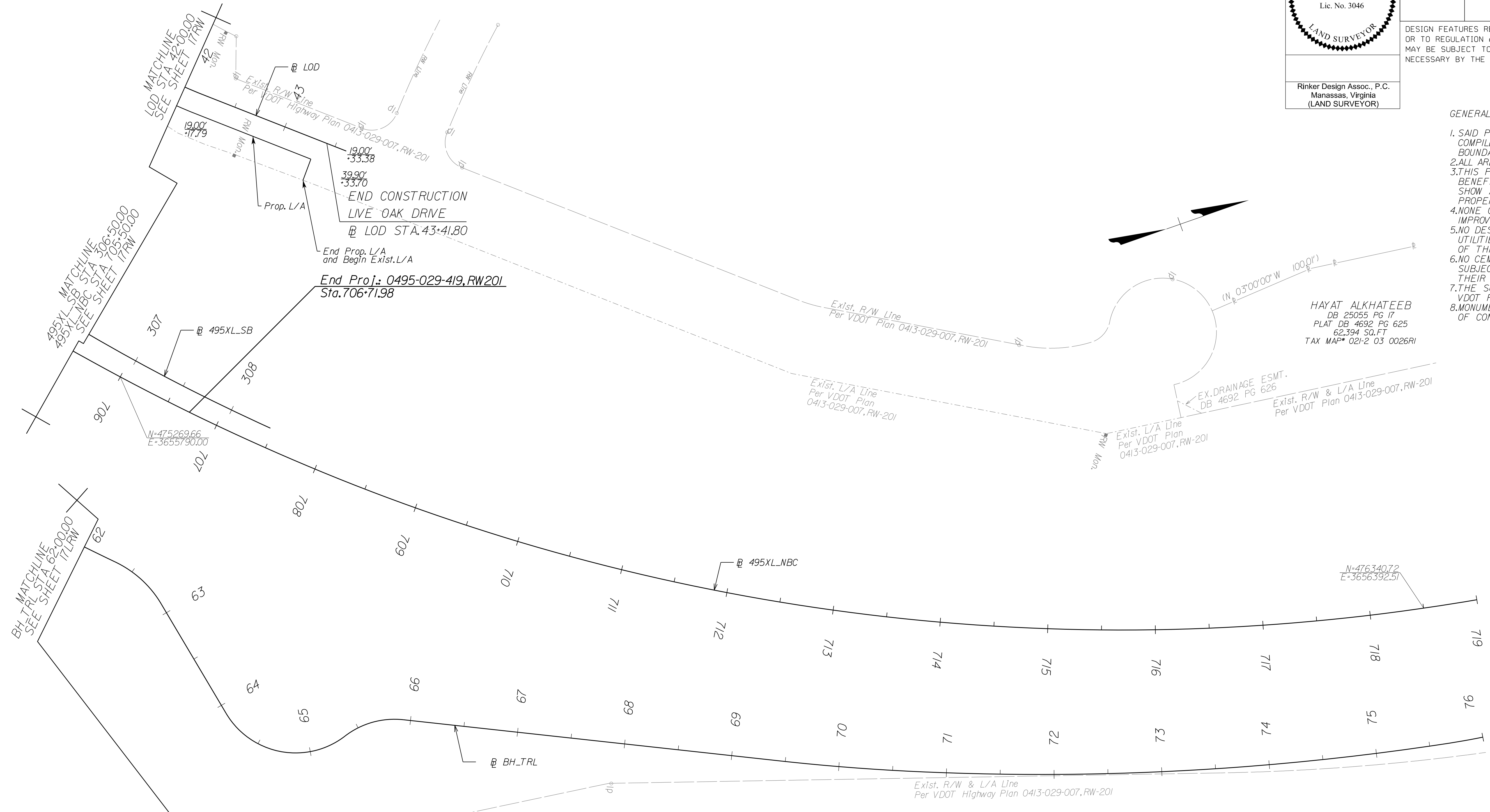


REVISED	STATE	ROUTE	STATE	VDOT PROJECT NO.	SHEET NO.
	VA	495		0495-029-419 PE101 CS01 RW201	18RW AREA 4

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

GENERAL NOTES:

1. SAID PROPERTY LINES ARE BEST FIT BASED ON COMPILED DATA AND DO NOT REPRESENT A BOUNDARY SURVEY.
2. ALL AREAS SHOWN ARE APPROXIMATE ONLY.
3. THIS PLAN SHEET WAS PREPARED WITHOUT THE BENEFIT OF A TITLE REPORT AND MAY NOT SHOW ALL EASEMENTS WHICH MAY AFFECT THE PROPERTY HEREON.
4. NONE OF THE PROPERTY'S PHYSICAL IMPROVEMENTS ARE SHOWN HEREON.
5. NO DESIGNATION OR LOCATION OF SUBSURFACE UTILITIES WAS PERFORMED DURING PREPARATION OF THIS PLAN SHEET.
6. NO CEMETERY SITES WERE OBSERVED ON THE SUBJECT PROPERTY. THIS DOES NOT PRECLUDE THEIR EXISTENCE.
7. THE SURVEY DATUM IS BASED ON THE TITLED VDOT PROJECT.
8. MONUMENTATION TO BE SET UPON COMPLETION OF CONSTRUCTION.



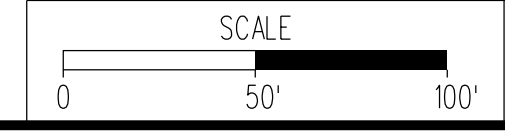
HAYAT ALKHATEEB
 DB 25055 PG 17
 PLAT DB 4692 PG 625
 62,394 SQ.FT
 TAX MAP 021-2 03 0026R1

EX. DRAINAGE ESMT.
 DB 4692 PG 626

UNITED STATES OF AMERICA
 DB 1879 PG 205
 22,2467 AC.
 TAX MAP 021-2 01 0007

LEGEND	
IPF/IRF	EXISTING PROPERTY MARKER
—	EXISTING PROPERTY LINE
—	EXISTING R/W LINE
—	CONSTRUCTION BASELINE
•	EXISTING PROPERTY MARKER
•	SET RM-2 (SEE NOTES)
00.00' -12.34'	PROPOSED RIGHT-OF-WAY / LIMITED ACCESS
(00.00' -12.34')	PROPOSED TEMPORARY EASEMENT
[00.00' -12.34']	PROPOSED PERMANENT EASEMENT
[00.00' -12.34']	PROPOSED PERMANENT UTILITY EASEMENT
N=515309.05 E=3361898.21	VDOT PROJECT COORDINATES
①	DENOTES PROP. TEMP. CONSTR. EASE. FOR SLOPES
②	DENOTES PROP. TEMP. CONSTR. EASE. FOR ENTRANCES & PARKING LOTS
③A	DENOTES PROP. TEMP. CONSTR. DRAINAGE EASE.
③B	DENOTES PROP. TEMP. CONSTR. DRAINAGE SLOPE EASE.
④	DENOTES PROP. PERM. DRAINAGE WALL EASE.
⑤	DENOTES PROP. PERM. SLOPE EASE.
⑥	DENOTES PROP. PERM. DRAINAGE EASE.
⑦	DENOTES PROP. PERM. DRAINAGE SLOPE EASE.

NOTE:
 SEE SHEET 22 FOR RIGHT-OF-WAY AND DESIGN LEGENDS.



VDOT PROJECT NO. 0495-029-419	SHEET NO. 18RW AREA 4
----------------------------------	-----------------------------

APP. FOR ROW

NOVA DISTRICT

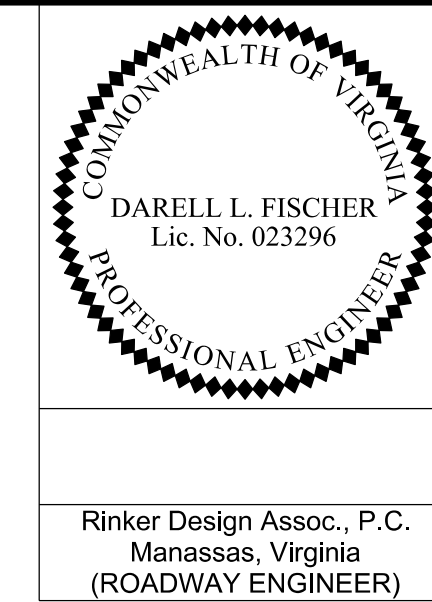
PROJECT MANAGER_VDOT - Rupal Shah, PE, (703) 259-2362
 SURVEYED BY, DATE_RDA - Nicholas Kougallis, LS, (703) 334-0837, 12/2021
 DESIGN BY_RDA - Darrell Fischer, PE, (703) 334-0823
 SUBSURFACE UTILITY BY, DATE_Accumark - Michael Taylor, LS, (703) 635-3060, 12/2021

Curve 495XL_NBC_002
 PI = 705+29.89
 DELTA = 14° 54' 41.0" (LT)
 D = 2' 44' 48"
 T = 272.99'
 L = 542.89'
 R = 2,086.00'
 PC = 702+56.91
 PCC = 707+99.80
 DESIGN SPEED = 60 MPH
 e = 6.50% (MATCH EXISTING)
 Lr = N/A

Curve 495XL_NBC_003
 PI = 714+5.06
 DELTA = 35° 01' 22.7" (LT)
 D = 2' 56' 18"
 T = 615.26'
 L = 1,191.97'
 R = 1,950.00'
 PCC = 707+99.80
 PT = 719+91.76
 DESIGN SPEED = 60 MPH
 e = 6.80% (MATCH EXISTING)
 Lr = N/A

Curve 495XL_SB_013
 PI = 305+94.96
 DELTA = 15° 15' 30.04" (LT)
 D = 3' 05' 49"
 T = 247.80'
 L = 492.67'
 R = 1,850.00'
 PCC = 303+47.15
 PT = 308+39.83
 DESIGN SPEED = 60 MPH
 FOR INFORMATION ONLY

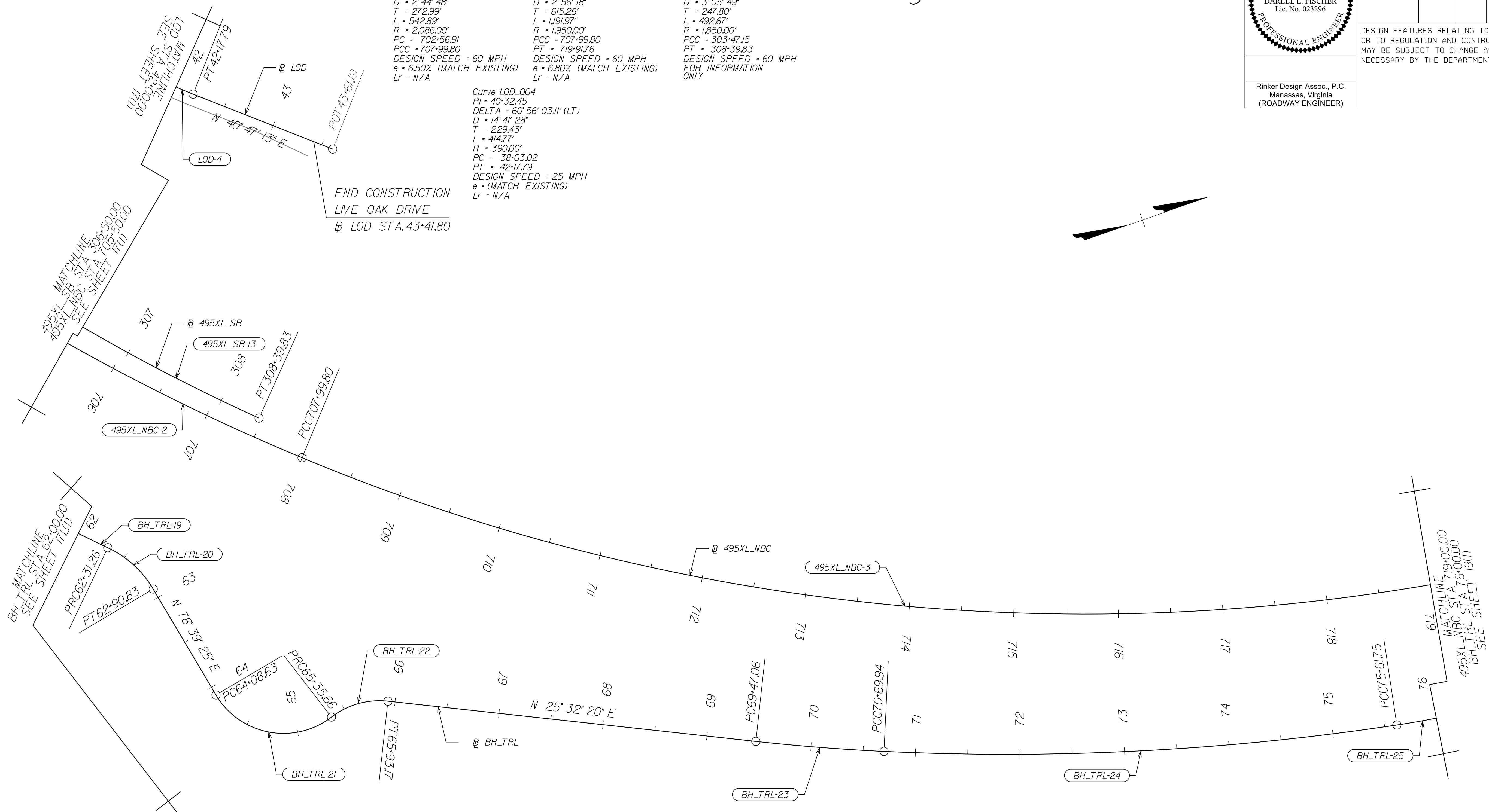
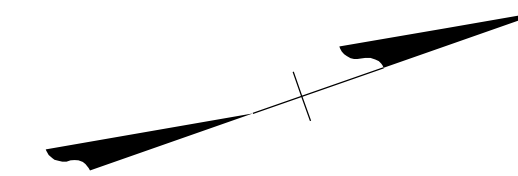
Alignment Data



REVISED	STATE	ROUTE	STATE	VDOT PROJECT NO.	SHEET NO.
	VA	495		0495-029-419 C501 RW201	18(1) AREA 4

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

Rinker Design Assoc., P.C.
 Manassas, Virginia
 (ROADWAY ENGINEER)



Curve BH_TRL19
 PI = 60+02.57
 DELTA = 14° 42' 48.39" (LT)
 D = 3' 11' 57"
 T = 231.24'
 L = 459.93'
 R = 1,791.03'
 PRC = 57+71.33
 PT = 62+31.26
 DESIGN SPEED = 18 MPH
 FOR INFORMATION ONLY

Curve BH_TRL20
 PI = 62+61.96
 DELTA = 34° 07' 49.43" (RT)
 D = 57' 17' 40"
 T = 307.0'
 L = 59.57'
 R = 100.00'
 PRC = 62+31.26
 PT = 62+90.83
 DESIGN SPEED = 18 MPH
 FOR INFORMATION ONLY

Curve BH_TRL21
 PI = 64+93.47
 DELTA = 97° 02' 52.20" (LT)
 D = 76' 23' 35"
 T = 84.84'
 L = 127.04'
 R = 75.00'
 PC = 64+08.63
 PCC = 65+35.66
 DESIGN SPEED = 18 MPH
 FOR INFORMATION ONLY

Curve BH_TRL22
 PI = 65+65.91
 DELTA = 43° 55' 47.46" (RT)
 D = 76' 23' 35"
 T = 30.25'
 L = 57.51'
 R = 75.00'
 PRC = 65+35.66
 PT = 65+93.17
 DESIGN SPEED = 18 MPH
 FOR INFORMATION ONLY

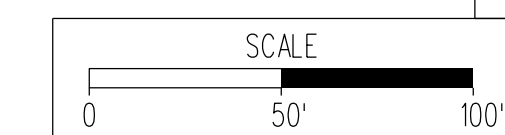
Curve BH_TRL23
 PI = 70+08.52
 DELTA = 3° 33' 07.43" (LT)
 D = 2' 53' 27"
 T = 61.46'
 L = 122.88'
 R = 1,982.03'
 PC = 69+47.06
 PCC = 70+69.94
 DESIGN SPEED = 18 MPH
 FOR INFORMATION ONLY

Curve BH_TRL24
 PI = 73+16.64
 DELTA = 11° 16' 33.09" (LT)
 D = 2' 17' 34"
 T = 246.70'
 L = 491.81'
 R = 2,499.04'
 PCC = 70+69.94
 PCC = 75+61.75
 DESIGN SPEED = 18 MPH
 FOR INFORMATION ONLY

Curve BH_TRL25
 PI = 75+86.84
 DELTA = 3° 26' 05.27" (LT)
 D = 6' 50' 51"
 T = 25.09'
 L = 50.16'
 R = 836.73'
 PCC = 75+61.75
 PCC = 76+11.91
 DESIGN SPEED = 18 MPH
 FOR INFORMATION ONLY

REFERENCES (PROFILES, DETAIL & DRAINAGE DESCRIPTION SHEETS, ETC.)

Survey Control Data Sheets	IF thru IF(4)
Existing Drainage Descriptions	IF(5) thru IF(9)
Construction Geometrics	IG thru IG(4)
Erosion Controls Ph1 & Ph2	NI(1), NI(18)
Typical Sections	2A thru 2B(3)
Drainage Descriptions	2K thru 2K(6)
Design Legend	2Z
Roadway Plan Sheet	1B
Right of Way Plan Sheet	1BRW
Drainage Plan Sheet	1BDRN
Profile Balls Hill SUP	1BA
Profile Live Oak Drive	1BB



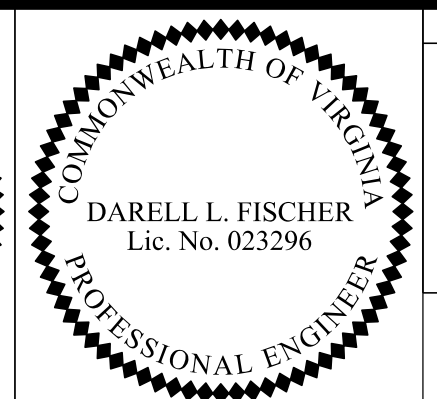
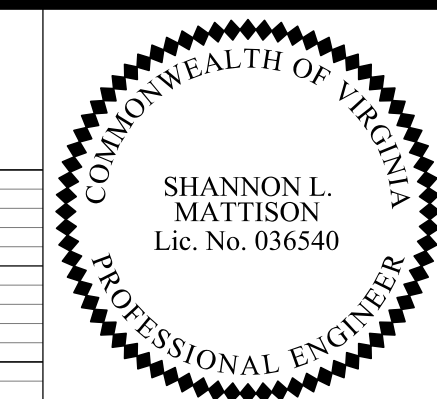
VDOT PROJECT NO.	0495-029-419
SHEET NO.	18(1) AREA 4

APPROVED FOR CONSTRUCTION

NOVA DISTRICT

PROJECT MANAGER_VDOT - Rimal Stab PE (703) 259-2362
SURVEYED BY_DATE - DARELL FISCHER LS (703) 334-0837 12/2/2021
DESIGN BY_DATE - DARELL FISCHER PE (703) 334-0823
SUBSURFACE UTILITY BY_DATE - MICHAEL TAYLOR LS (703) 635-3060 12/2/2021

Balls Hill Shared Use Path

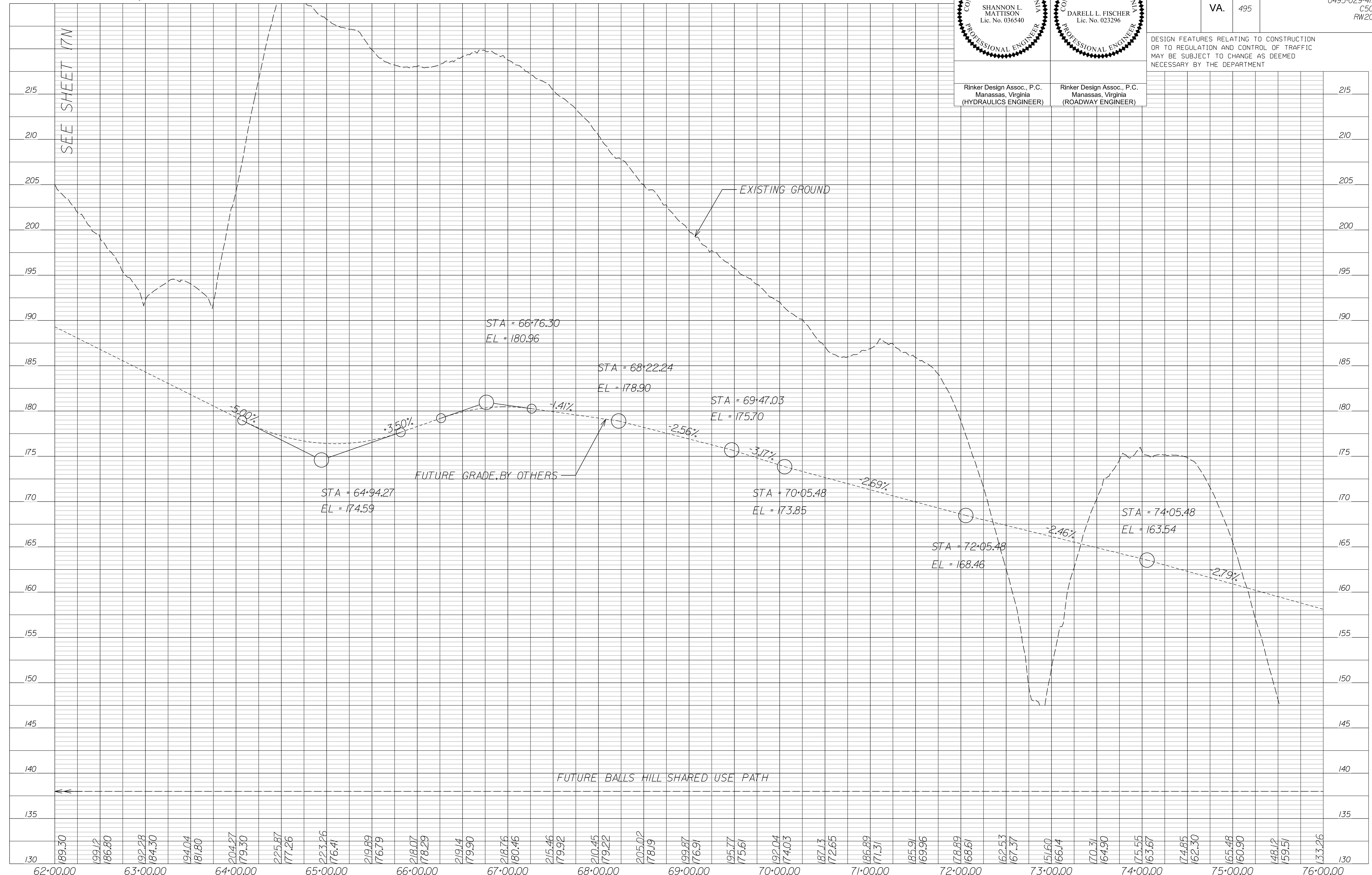


Rinker Design Assoc., P.C.
Manassas, Virginia
(HYDRAULICS ENGINEER)

Rinker Design Assoc., P.C.
Manassas, Virginia
(ROADWAY ENGINEER)

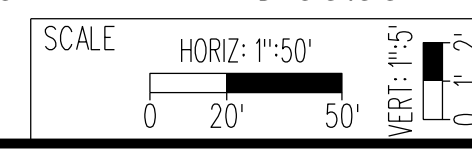
REVISED	STATE	ROUTE	STATE PROJECT	SHEET NO.
	VA.	495	0495-029-419 C501 RW201	18A AREA 4

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



NOVA DISTRICT

10/26/2022

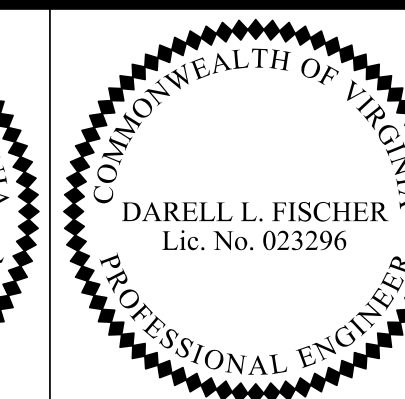
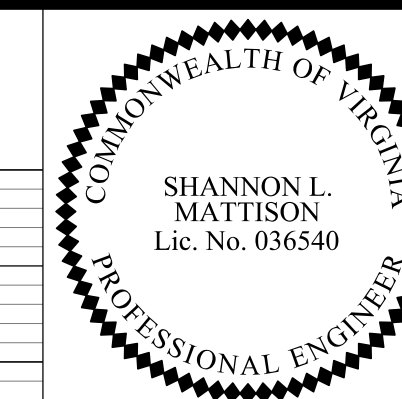


VDOT PROJECT NO. 0495-029-419
SHEET NO. 18A
AREA 4

APPROVED FOR CONSTRUCTION

PROJECT MANAGER_VDOT - Rimpal Stab, PE, (703) 259-2362
SURVEYED BY, DATE - BDA - Nicolas Kougoullis, LS, (703) 334-0837, 12/2021
DESIGN BY - BDA - Darell Fischer, PE, (703) 334-0823
SUBSURFACE UTILITY BY, DATE - Accumar - Michael Taylor, LS, (703) 635-3060, 12/2021

Live Oak Drive

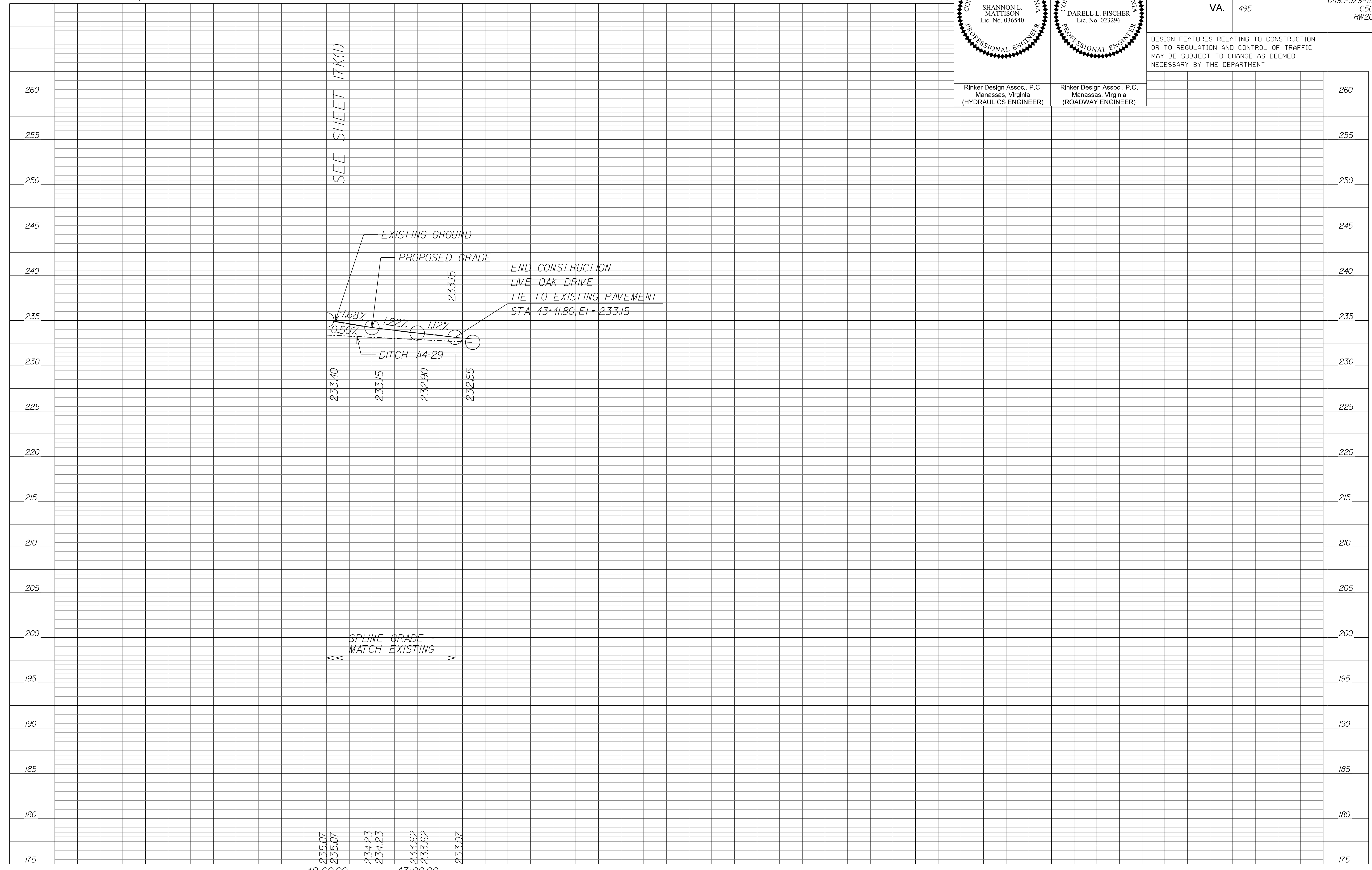


Rinker Design Assoc., P.C.
Manassas, Virginia
(HYDRAULICS ENGINEER)

Rinker Design Assoc., P.C.
Manassas, Virginia
(ROADWAY ENGINEER)

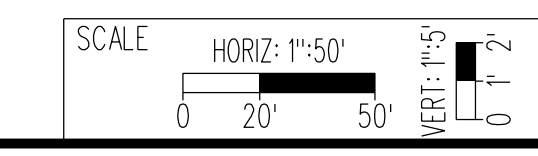
REVISED	STATE		PROJECT		SHEET NO.
	VA.	495	0495-029-419	C501 RW201	
					18B AREA 4

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



NOVA DISTRICT

10/26/2022



VDOT PROJECT NO. 0495-029-419
SHEET NO. 18B
AREA 4

APPROVED FOR CONSTRUCTION

PROJECT MANAGER_VDOT - Rupal Shah, PE, (703) 259-2362
SURVEYED BY, DATE_RDA - Nicholas Kougoullis, LS, (703) 334-0837, 12/2021
DESIGN BY_RDA - Darrell Fischer, PE, (703) 334-0823
SUBSURFACE UTILITY BY, DATE_Accumark - Michael Taylor, LS, (703) 635-3060, 12/2021

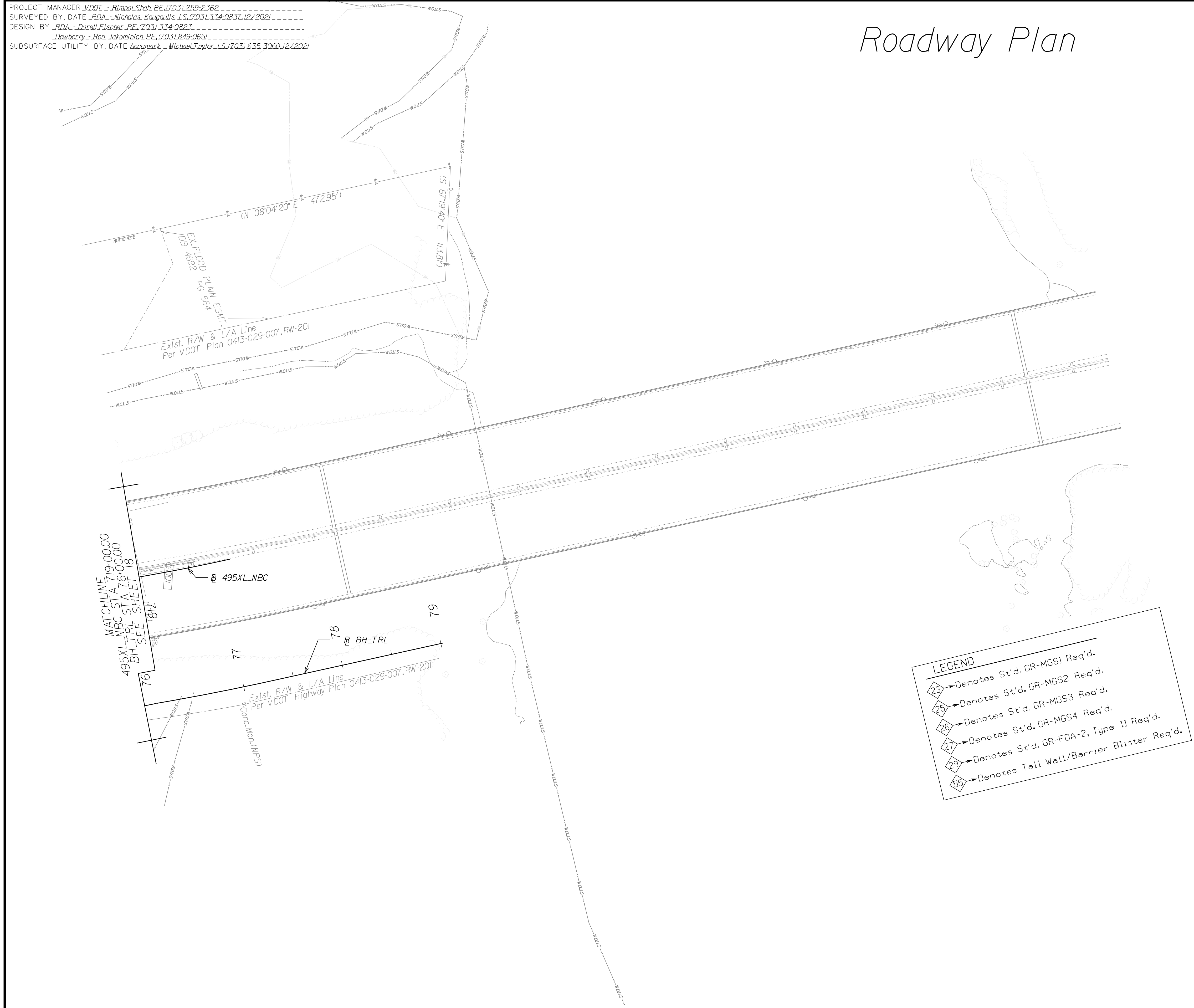
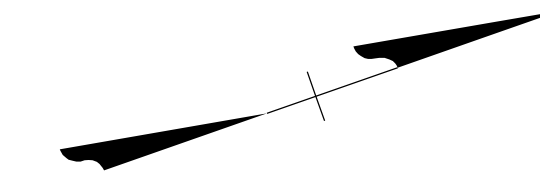
Roadway Plan

COMMONWEALTH OF VIRGINIA
PROFESSIONAL ENGINEER
DARELL L. FISCHER
Lic. No. 023296

Rinker Design Assoc., P.C.
Manassas, Virginia
(ROADWAY ENGINEER)

REVISED	STATE	ROUTE	STATE	VDOT PROJECT NO.	SHEET NO.
	VA.	495		0495-029-419 PE101 CS01 RW201	19 AREA 4

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



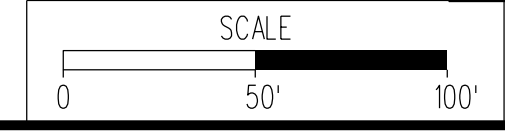
LEGEND

- 23 → Denotes St'd. GR-MGS1 Req'd.
- 25 → Denotes St'd. GR-MGS2 Req'd.
- 26 → Denotes St'd. GR-MGS3 Req'd.
- 27 → Denotes St'd. GR-MGS4 Req'd.
- 29 → Denotes St'd. GR-FOA-2, Type II Req'd.
- 65 → Denotes Tall Wall/Barrier Blister Req'd.

REFERENCES (PROFILES, DETAIL & DRAINAGE DESCRIPTION SHEETS, ETC.)

Survey Control Data Sheets	1F thru 1F(4)
Existing Drainage Descriptions	1F(5) thru 1F(9)
Construction Geometrics	1G thru 1G(4)
Erosion Controls Ph1 & Ph2	1N(19), 1N(19)
Typical Sections	2A thru 2B(13)
Drainage Descriptions	2K thru 2K(6)
Design Legend	2Z
Drainage Plan Sheet	19DRN
Alignment Data Sheet	19(1)

NOTE:
SEE SHEET 2Z FOR RIGHT-OF-WAY AND DESIGN LEGENDS.



VDOT PROJECT NO. 0495-029-419	SHEET NO. 19 AREA 4
----------------------------------	---------------------------

APPROVED FOR CONSTRUCTION

NOVA DISTRICT

PROJECT MANAGER VDOT - Rupal Shah, PE, (703) 259-2362
SURVEYED BY, DATE RDA - Nicholas Kougoullis, LS, (703) 334-0837, 12/2021
DESIGN BY RDA - Darrell Fischer, PE, (703) 334-0823
SUBSURFACE UTILITY BY, DATE Accurmark - Michael Taylor, LS, (703) 635-3060, 12/2021

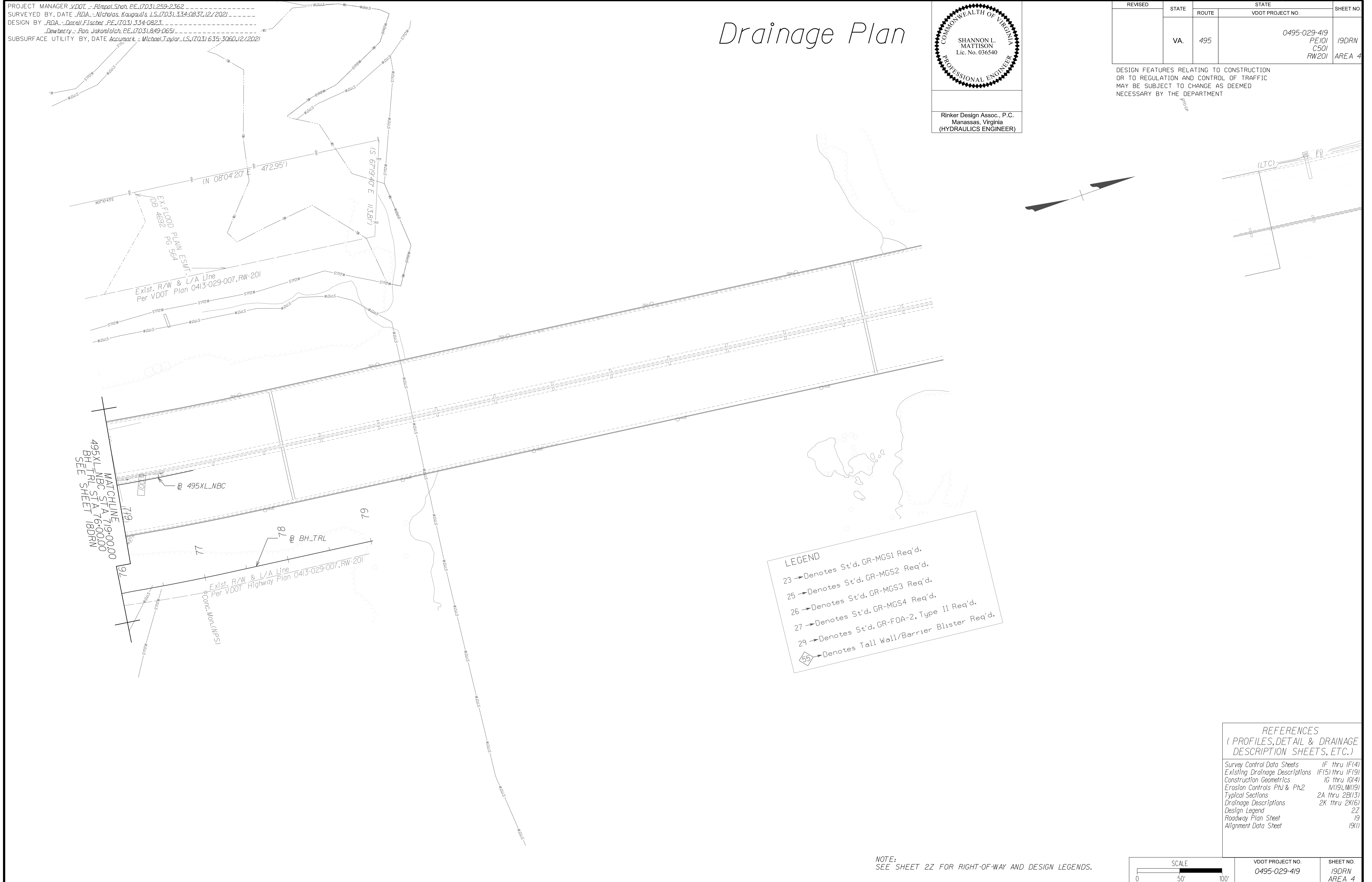
Drainage Plan

SHANNON L. MATTISON
Lic. No. 036540
PROFESSIONAL ENGINEER

Rinker Design Assoc., P.C.
Manassas, Virginia
(HYDRAULICS ENGINEER)

REVISED	STATE	ROUTE	STATE	VDOT PROJECT NO.	SHEET NO.
	VA.	495		0495-029-419 PE101 CS01 RW201	19DRN AREA 4

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



NOVA DISTRICT

10/26/2022

APPROVED FOR CONSTRUCTION

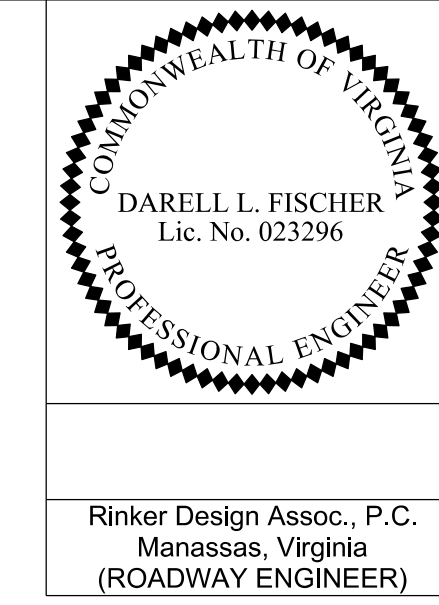
REFERENCES
(PROFILES, DETAIL & DRAINAGE DESCRIPTION SHEETS, ETC.)

Survey Control Data Sheets	1F thru 1F(4)
Existing Drainage Descriptions	1F(5) thru 1F(9)
Construction Geometrics	1G thru 1G(4)
Erosion Controls Ph1 & Ph2	1I(9), 1M(9)
Typical Sections	2A thru 2B(3)
Drainage Descriptions	2K thru 2K(6)
Design Legend	2Z
Roadway Plan Sheet	19
Alignment Data Sheet	19(1)

VDOT PROJECT NO.	0495-029-419	SHEET NO.	19DRN AREA 4
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PROJECT MANAGER_VDOT - Rupal Shah, P.E. (703) 259-2362
SURVEYED BY, DATE_RDA - Nicholas Kaugall's, L.S. (703) 334-0837, 12/2021
DESIGN BY_RDA - Darel L. Fischer, P.E. (703) 334-0823
SUBSURFACE UTILITY BY, DATE_Accumark - Michael Taylor, L.S. (703) 635-3060, 12/2021

Alignment Data

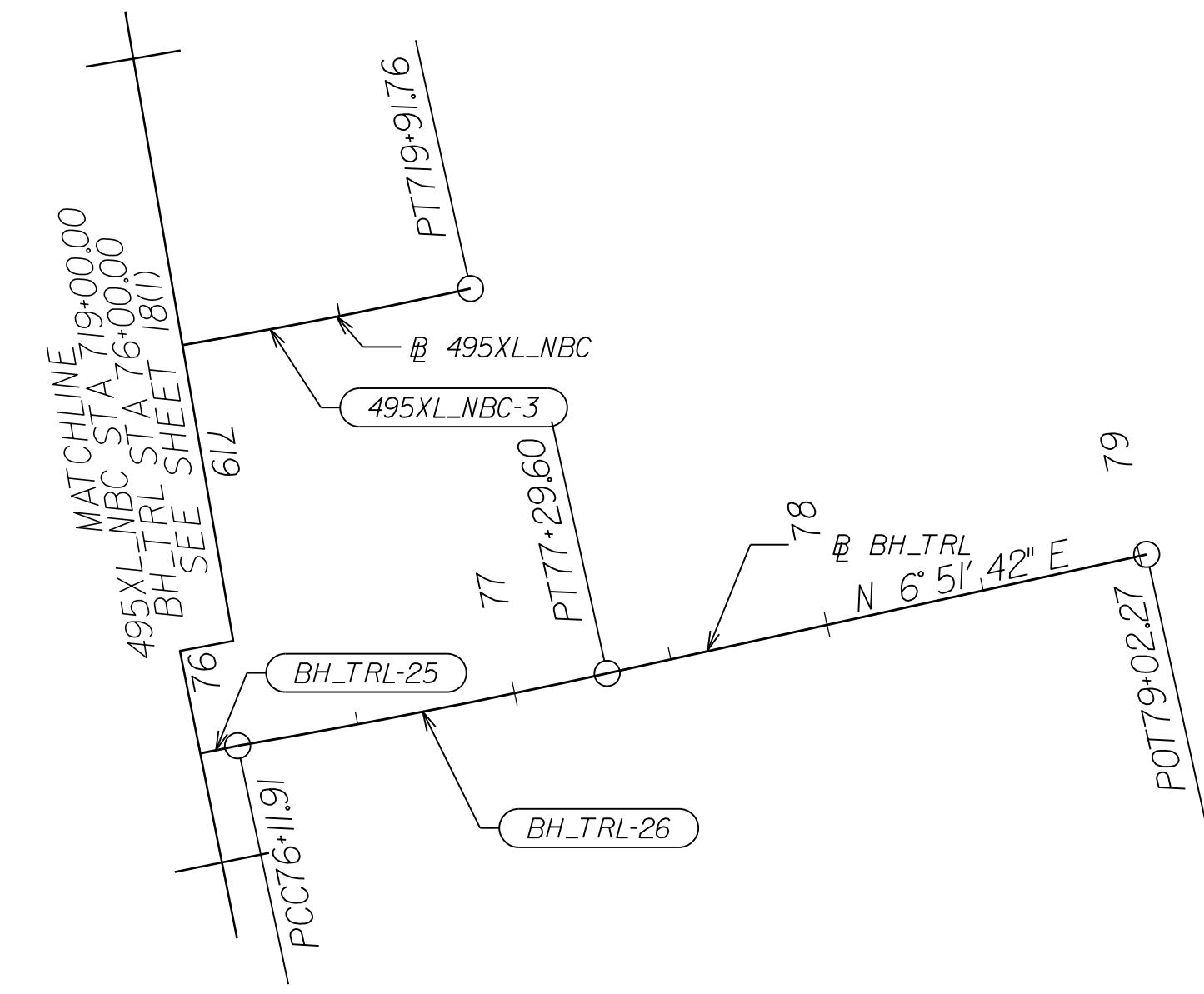
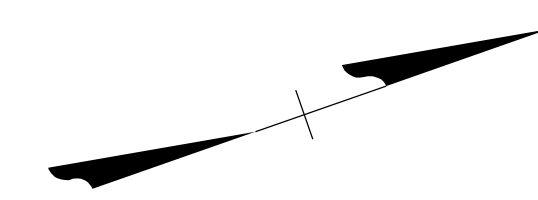


REVISED	STATE	ROUTE	STATE	VDOT PROJECT NO.	SHEET NO.
	VA.	495		0495-029-419 C501 RW201	19(1) AREA 4

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

Rinker Design Assoc., P.C.
Manassas, Virginia
(ROADWAY ENGINEER)

<p>Curve 495XL_NBC_003 PI = 714.1506 DELTA = 35° 01' 22.7" (LT) D = 2° 56' 18" T = 615.26' L = 1191.97' R = 1950.00' PCC = 707.99.80 PT = 719.9176 DESIGN SPEED = 60 MPH e = 6.80% (MATCH EXISTING) Lr = N/A</p>	<p>Curve BH_TRL25 PI = 75.86.84 DELTA = 3° 26' 05.27" (LT) D = 6° 50' 51" T = 25.09' L = 5016' R = 836.73' PCC = 75.61.75 PT = 76.11.91 DESIGN SPEED = 18 MPH FOR INFORMATION ONLY</p>	<p>Curve BH_TRL26 PI = 76.70.77 DELTA = 2° 41' 57.85" (LT) D = 2° 17' 37" T = 58.86' L = 117.69' R = 2,498.04' PCC = 76.11.91 PT = 77.29.60 DESIGN SPEED = 18 MPH FOR INFORMATION ONLY</p>
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NOVA DISTRICT

10/26/2022

REFERENCES
(PROFILES, DETAIL & DRAINAGE DESCRIPTION SHEETS, ETC.)

Survey Control Data Sheets	1F thru 1F(4)
Existing Drainage Descriptions	1F(5) thru 1F(9)
Construction Geometrics	1G thru 1G(4)
Erosion Controls Ph1 & Ph2	N(19), N(19)
Typical Sections	2A thru 2B(13)
Drainage Descriptions	2K thru 2K(6)
Design Legend	2Z
Roadway Plan Sheet	19
Drainage Plan Sheet	19DRN

SCALE 0 50' 100'	VDOT PROJECT NO. 0495-029-419	SHEET NO. 19(1) AREA 4
---------------------	----------------------------------	------------------------------

APPROVED FOR CONSTRUCTION

PROJECT MANAGER_VDOT - Rirapal Shah, PE, (703) 259-2362
 SURVEYED BY, DATE_RDA - Nicholas Kougaull, LS, (703) 334-0837, 12/2021
 DESIGN BY_RDA - Darrell Fischer, PE, (703) 334-0823
 Dewberry - Ron Jakomlitch, PE, (703) 849-0651
 SUBSURFACE UTILITY BY, DATE_Accumark - Michael Taylor, LS, (703) 635-3060, 12/2021



COMMONWEALTH OF VIRGINIA
 DEPARTMENT OF TRANSPORTATION

PLAN AND PROFILE OF PROPOSED
 STATE HIGHWAY

I-495 EXPRESS LANES (NEXT)
 AREA 4

Cross Section Sheet Index

I 495 XL NB Sta.675+00.00 to Sta.686+50.00	X2-X13
I 495 XL NBC Sta.686+50.00 to Sta.702+83.40	X51-X66
I-495 XL SB Sta.276+50.00 to Sta.302+21.43	X101-X120
GWMP Ramp G21 Sta.24+75.09 to Sta.65+21.80	X151-X191
GWMP Ramp E21 Sta.5+04.60 to Sta.35+01.86	X201-X229
GWMP Ramp E22 Sta.4+77.93 to Sta.53+24.98	X251-X293
GWMP Ramp G22 Sta.11+95.66 to Sta.25+51.68	X351-X366
GWMP Ramp G23 Sta.10+00.00 to Sta.23+31.20	X401-X417
Live Oak Drive Sta.10+00.00 to Sta.43+41.79	X451-X484
Balls Hill Road Sta.38+00.00 to Sta.39+62.17	X501-X502
Balls Hill Trail Sta.29+50.00 to Sta.53+34.78	X551-X577

REVISED	STATE	ROUTE	STATE	VDOT PROJECT NO.	SHEET NO.
	VA.	495		0495-029-419 C501 RW201	X1 AREA 4

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

NOVA DISTRICT

10/28/2022

VDOT PROJECT NO. 0495-029-419	SHEET NO. X1 AREA 4
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APPROVED FOR CONSTRUCTION

PROJECT MANAGER VDOT - Bipal Stab PE (703) 259-2362
SURVEYED BY DATE BDA - Nicholas Kougoulis LS (703) 334-0837, 12/2021
DESIGN BY BDA - Darrell Eischer BE (703) 334-0823, Dexberry - Ron Jakominich PE (703) 849-0651
SUBSURFACE UTILITY BY DATE Accurmark - Michael Taylor LS (703) 635-3060, 12/2021

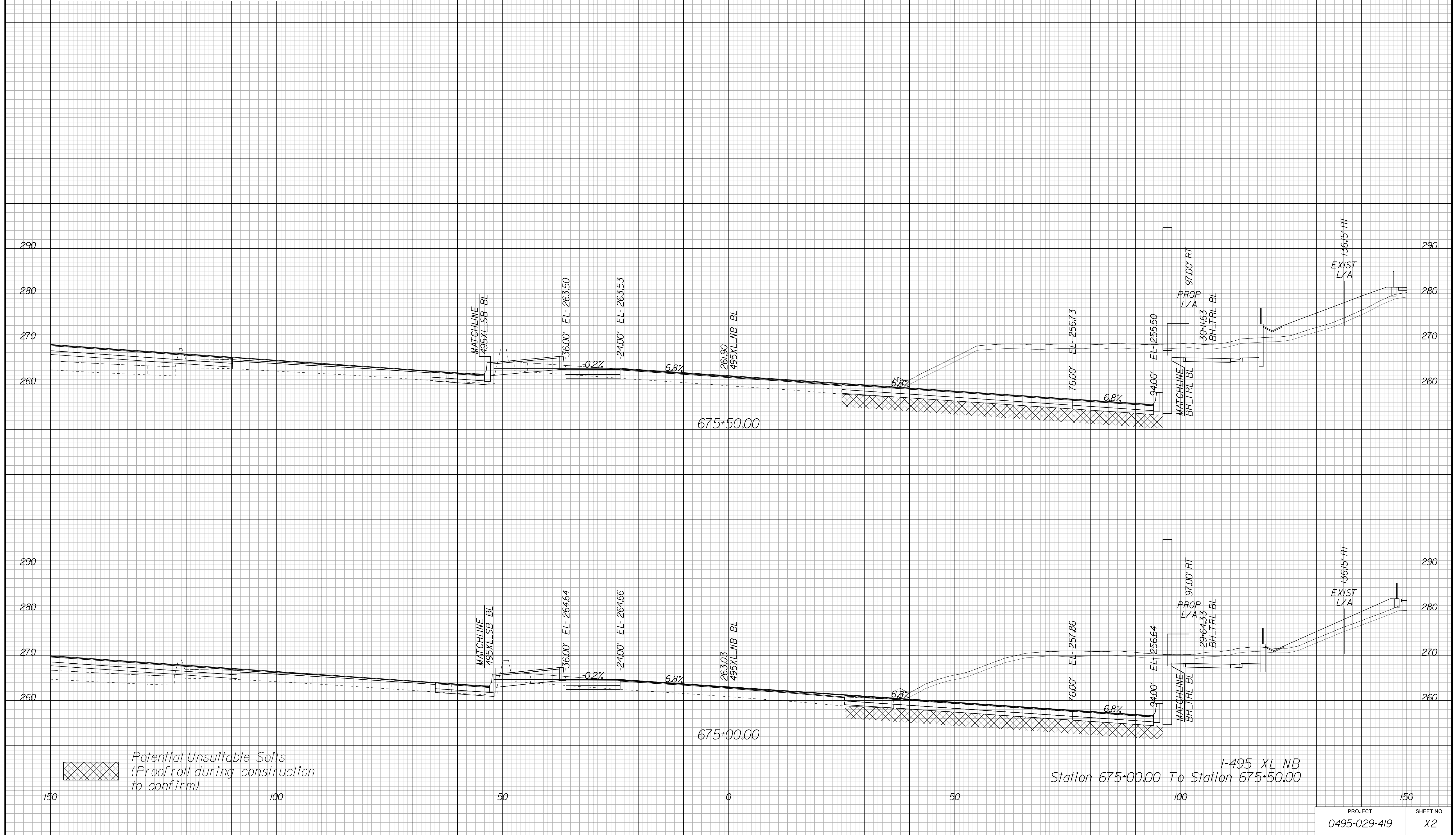
CROSS SECTIONS

SCALE 1 IN. = 10 FT

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

REVISION	STATE	ROUTE	STATE	PROJECT	SHEET NO.
	VA.	495		0495-029-419	X2 AREA 4

Cross Section Labels Are Pertinent Only To The Roadway Associated To The Alignment In Focus. For Labels On Other Roadway See The Appropriate Cross Section Sheet.



APPROVED FOR CONSTRUCTION

PROJECT MANAGER VDOT - Bipal Stab PE (703) 259-2362
SURVEYED BY DATE BDA - Nicholas Kougoulis LS (703) 334-0837, 12/2021
DESIGN BY BDA - Darrell Eischer BE (703) 334-0823, Dexberry - Ron Jakominich PE (703) 849-0651
SUBSURFACE UTILITY BY DATE Accurmark - Michael Taylor LS (703) 635-3060, 12/2021

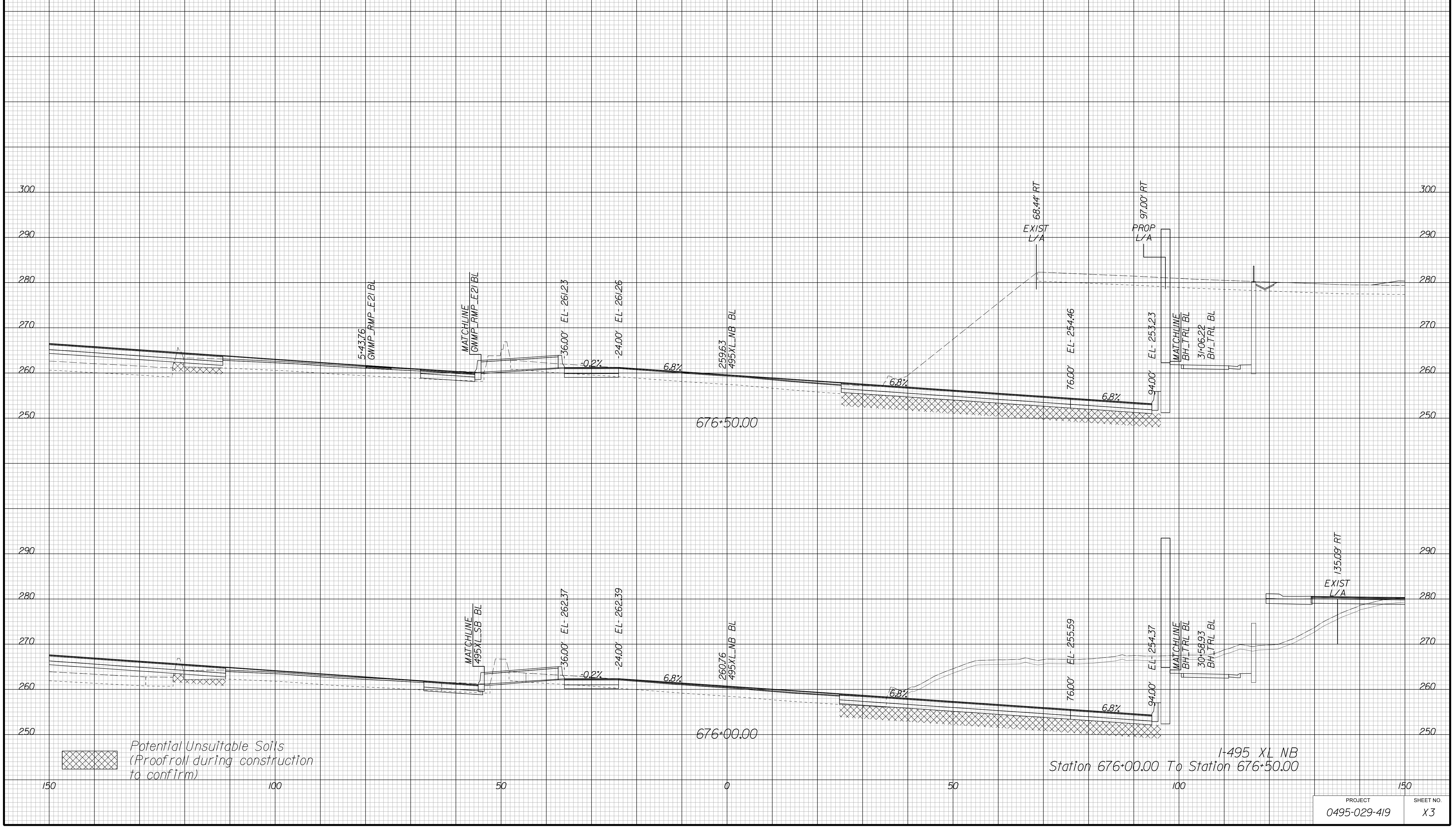
CROSS SECTIONS

SCALE 1 IN. = 10 FT

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

REVISID	STATE	ROUTE	STATE	PROJECT	SHEET NO.
	VA.	495		0495-029-419	X3 AREA 4

Cross Section Labels Are Pertinent Only To The Roadway Associated To The Alignment In Focus. For Labels On Other Roadway See The Appropriate Cross Section Sheet.



Potential Unsuitable Soils (Proofroll during construction to confirm)

I-495 XL NB
Station 676+00.00 To Station 676+50.00

PROJECT	SHEET NO.
0495-029-419	X3

APPROVED FOR CONSTRUCTION

PROJECT MANAGER VDOT - Bipal Sab PE (703) 259-2362
SURVEYED BY DATE BDA - Nicholas Kougoulis LS (703) 334-0837, 12/2021
DESIGN BY BDA - Darrell Eischer BE (703) 334-0823, Dexberry - Ron Jakominich PE (703) 849-0651
SUBSURFACE UTILITY BY DATE Accurmark - Michael Taylor LS (703) 635-3060, 12/2021

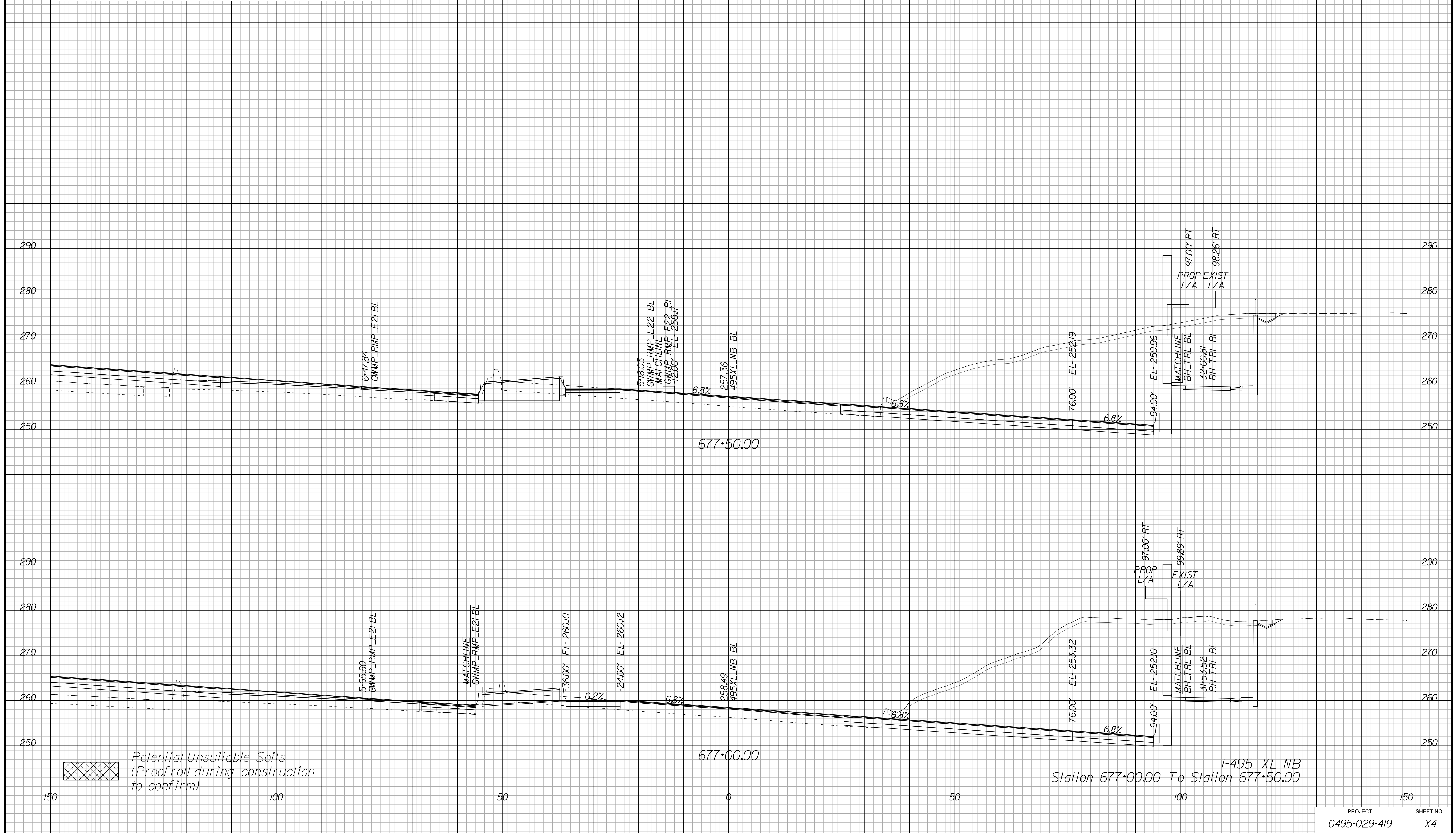
CROSS SECTIONS

SCALE 1 IN. = 10 FT

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

REVISED	STATE	ROUTE	STATE	PROJECT	SHEET NO.
	VA.	495		0495-029-419	X4 AREA 4

Cross Section Labels Are Pertinent Only To The Roadway Associated To The Alignment In Focus. For Labels On Other Roadway See The Appropriate Cross Section Sheet.



PROJECT	SHEET NO.
0495-029-419	X4

APPROVED FOR CONSTRUCTION

PROJECT MANAGER VDOT - Bipal Stab PE (703) 259-2362
SURVEYED BY DATE BDA - Nicholas Kougoulis LS (703) 334-0837, 12/2021
DESIGN BY BDA - Darrell Eischer BE (703) 334-0823, Dexberry - Ron Jakominich PE (703) 849-0651
SUBSURFACE UTILITY BY DATE Accurmark - Michael Taylor LS (703) 635-3060, 12/2021

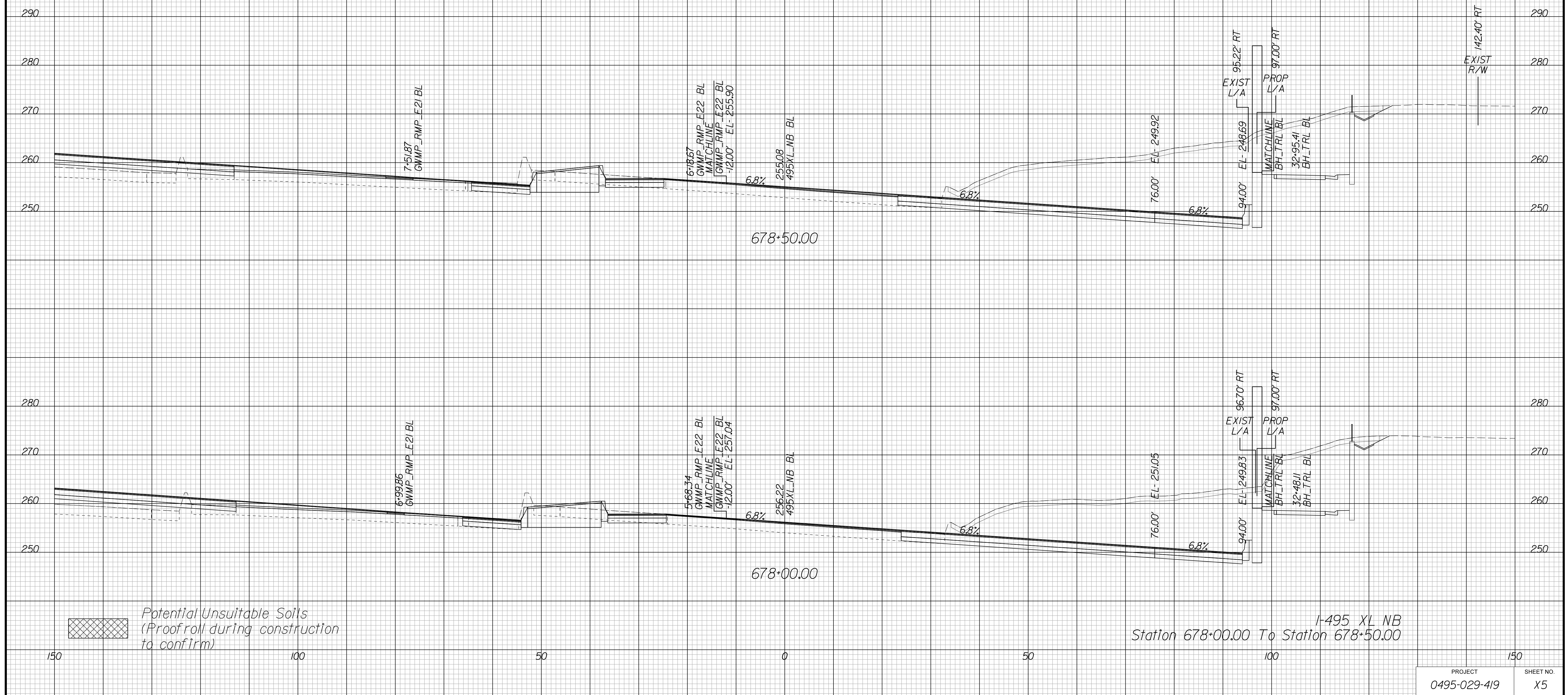
CROSS SECTIONS

SCALE 1 IN. = 10 FT

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

REVISION	STATE	ROUTE	STATE	PROJECT	SHEET NO.
	VA.	495		0495-029-419	X5 AREA 4

Cross Section Labels Are Pertinent Only To The Roadway Associated To The Alignment In Focus. For Labels On Other Roadway See The Appropriate Cross Section Sheet.



APPROVED FOR CONSTRUCTION

PROJECT MANAGER VDOT - Bimbal Stab PE (703) 259-2362
SURVEYED BY DATE BDA - Nicholas Kougoulis LS (703) 334-0837, 12/2021
DESIGN BY BDA - Darrell Eischer BE (703) 334-0823, Dexberry - Ron Jakominich PE (703) 849-0651
SUBSURFACE UTILITY BY DATE Accurmark - Michael Taylor LS (703) 635-3060, 12/2021

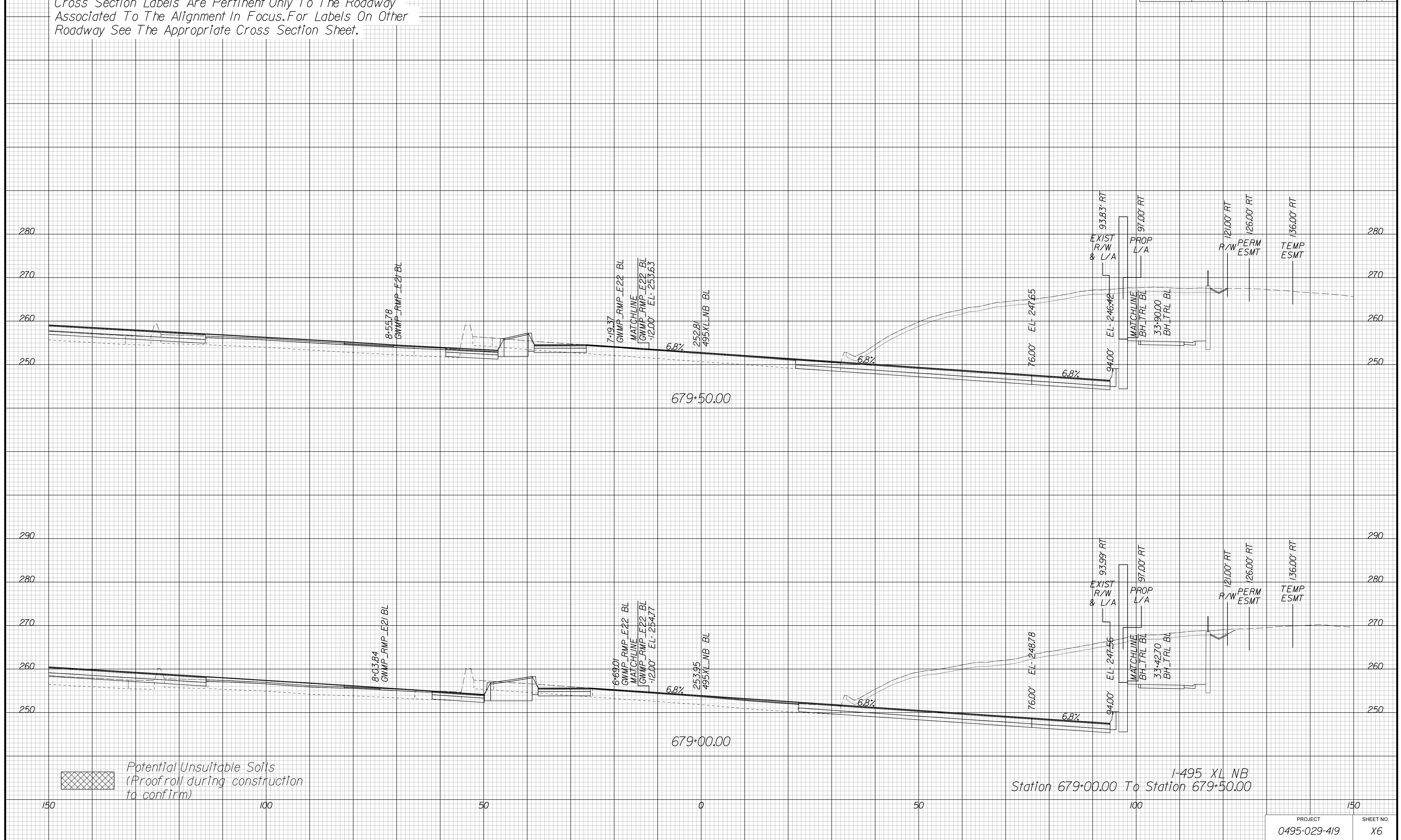
CROSS SECTIONS

SCALE 1 IN. = 10 FT

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

REVISION	STATE	ROUTE	STATE	PROJECT	SHEET NO.
	VA.	495		0495-029-419	X6 AREA 4

Cross Section Labels Are Pertinent Only To The Roadway Associated To The Alignment In Focus. For Labels On Other Roadway See The Appropriate Cross Section Sheet.



APPROVED FOR CONSTRUCTION

PROJECT MANAGER VDOT - Bimbal Stab PE (703) 259-2362
SURVEYED BY DATE BDA - Nicholas Kougoulis LS (703) 334-0837, 12/2021
DESIGN BY BDA - Darrell Eischer BE (703) 334-0823, Dexbery - Ron Jakominich PE (703) 849-0651
SUBSURFACE UTILITY BY DATE Accurmark - Michael Taylor LS (703) 635-3060, 12/2021

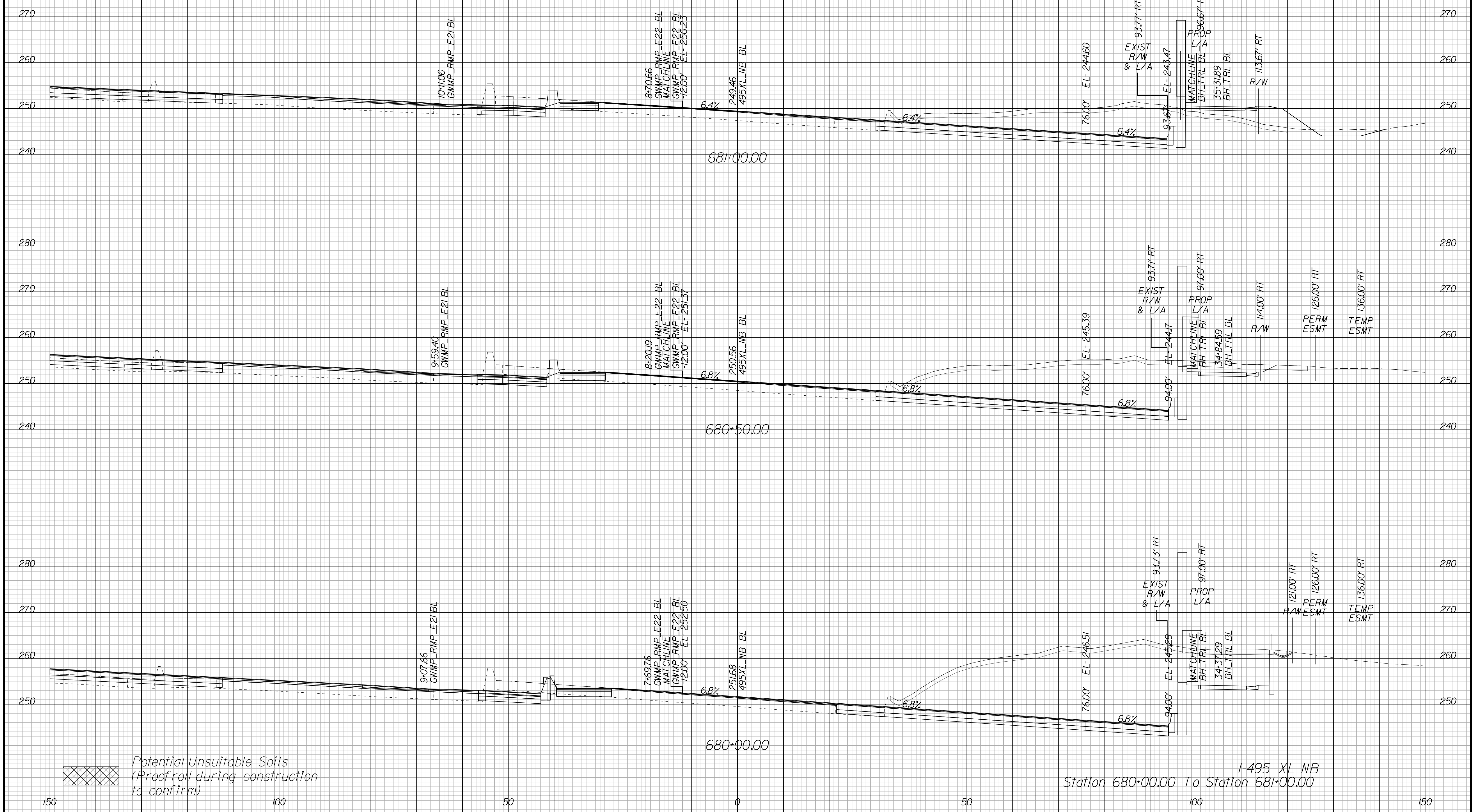
CROSS SECTIONS

SCALE 1 IN. = 10 FT

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

STATE	ROUTE	PROJECT	SHEET NO.
VA.	495	0495-029-419	X7 AREA 4

Cross Section Labels Are Pertinent Only To The Roadway Associated To The Alignment In Focus. For Labels On Other Roadway See The Appropriate Cross Section Sheet.



APPROVED FOR CONSTRUCTION

PROJECT MANAGER VDOT - Bimbal Stab PE (703) 259-2362
SURVEYED BY DATE BDA - Nicholas Kougoulis LS (703) 334-0837, 12/2021
DESIGN BY BDA - Darrell Elischer BE (703) 334-0823, Dexberry - Ron Jakominich PE (703) 849-0651
SUBSURFACE UTILITY BY DATE Accurmark - Michael Taylor LS (703) 635-3060, 12/2021

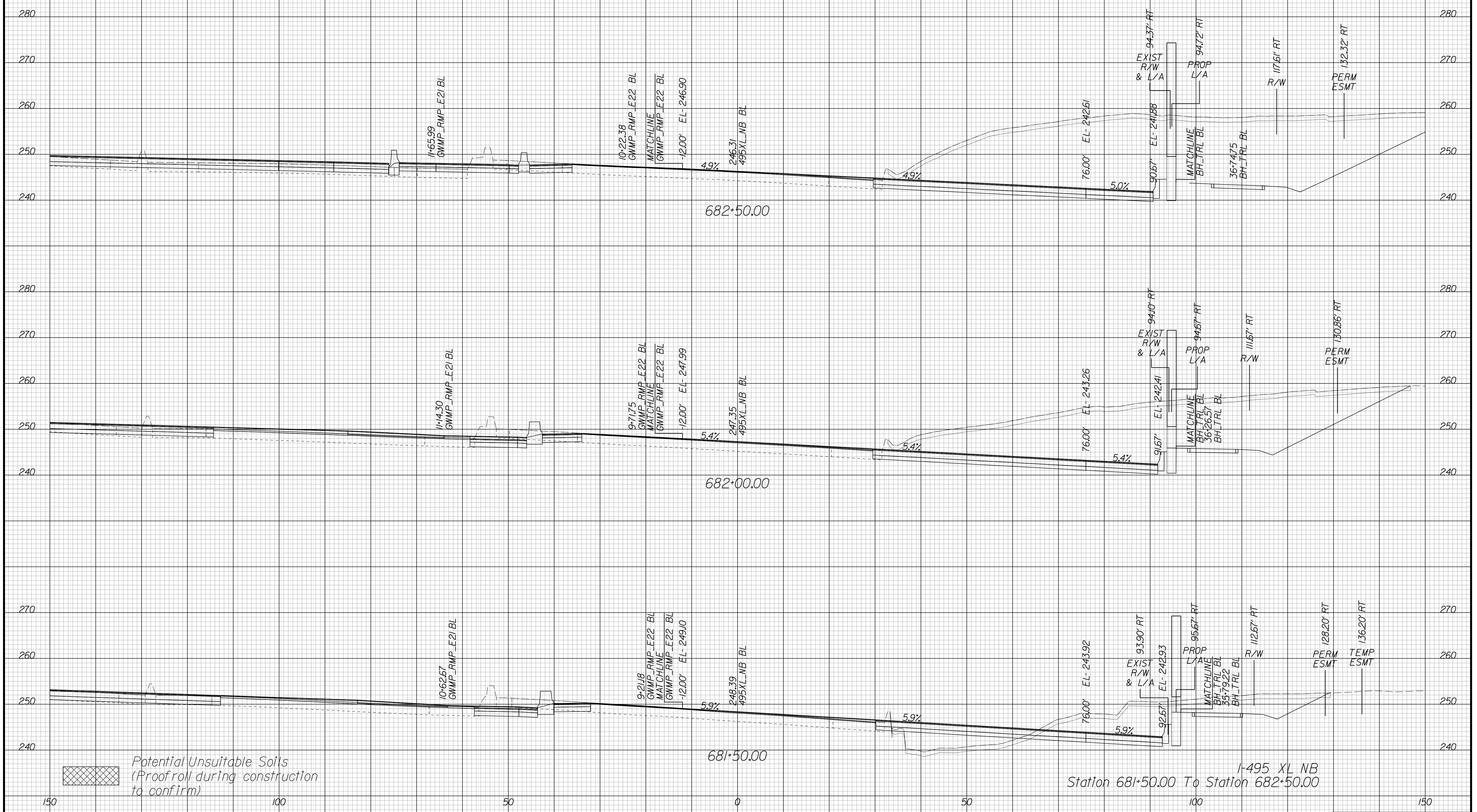
CROSS SECTIONS

SCALE 1 IN. = 10 FT

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

STATE	ROUTE	PROJECT	SHEET NO.
VA.	495	0495-029-419	X8 AREA 4

Cross Section Labels Are Pertinent Only To The Roadway Associated To The Alignment In Focus. For Labels On Other Roadway See The Appropriate Cross Section Sheet.



I-495 XL NB
Station 681+50.00 To Station 682+50.00

PROJECT	SHEET NO.
0495-029-419	X8

APPROVED FOR CONSTRUCTION

PROJECT MANAGER VDOT - Bimbal Stab PE (703) 259-2362
SURVEYED BY DATE BDA - Nicholas Kougoulis LS (703) 334-0837, 12/2021
DESIGN BY BDA - Darrell Eischer BE (703) 334-0823, Dexberry - Ron Jakominich PE (703) 849-0651
SUBSURFACE UTILITY BY DATE Accurmark - Michael Taylor LS (703) 635-3060, 12/2021

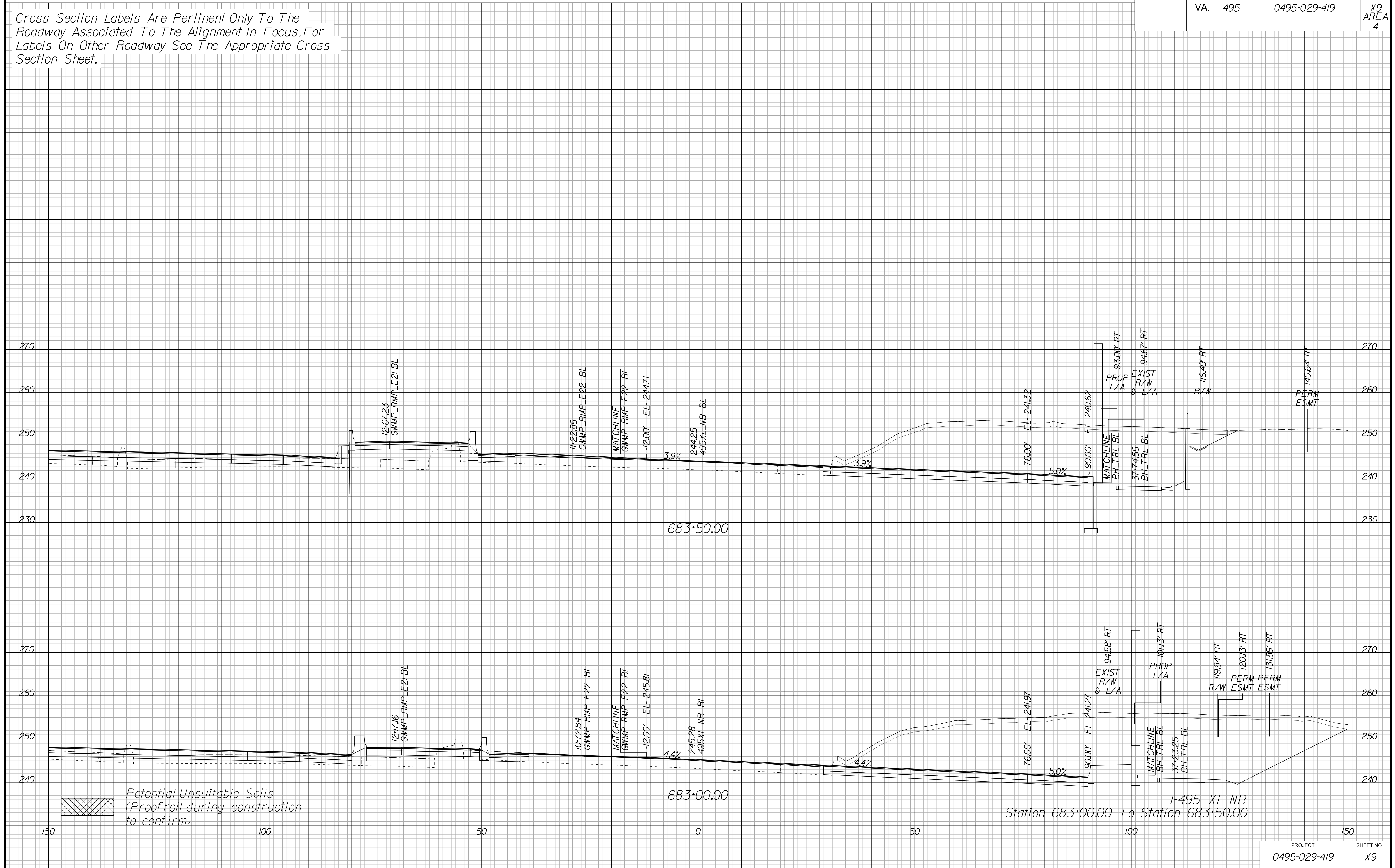
CROSS SECTIONS

SCALE 1 IN. = 10 FT

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

REVISION	STATE	ROUTE	STATE PROJECT	SHEET NO.
	VA.	495	0495-029-419	X9 AREA 4

Cross Section Labels Are Pertinent Only To The Roadway Associated To The Alignment In Focus. For Labels On Other Roadway See The Appropriate Cross Section Sheet.



APPROVED FOR CONSTRUCTION

PROJECT MANAGER VDOT - Bimal Saha PE (703) 259-2362
SURVEYED BY DATE BDA - Nicholas Kouyoulis LS (703) 334-0837, 12/2021
DESIGN BY BDA - Darrell Eischer BE (703) 334-0823, Dexberry - Ron Jakominich PE (703) 849-0651
SUBSURFACE UTILITY BY DATE Accurmark - Michael Taylor LS (703) 635-3060, 12/2021

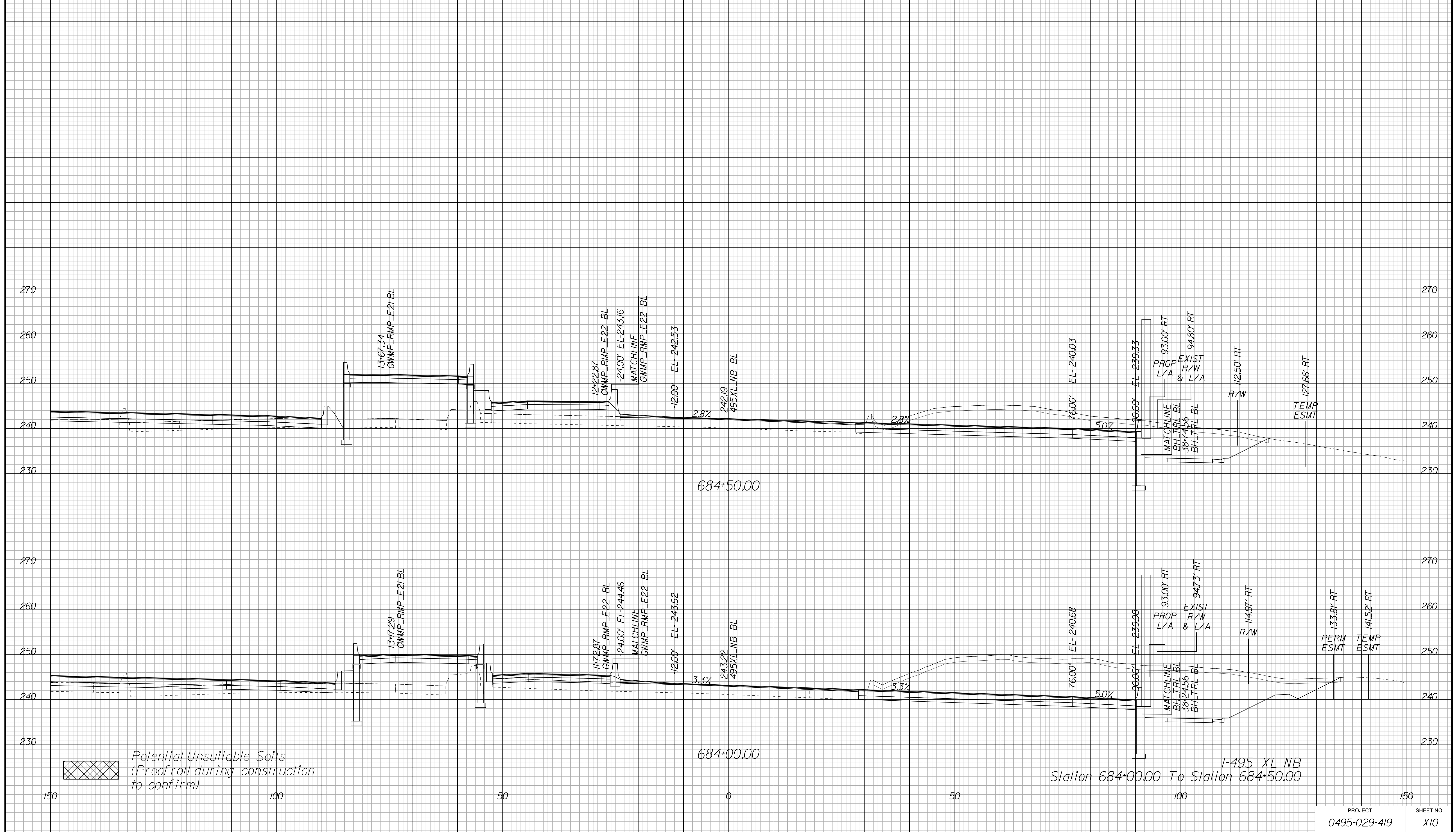
CROSS SECTIONS

SCALE 1 IN. = 10 FT

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

REVISION	STATE	ROUTE	STATE	PROJECT	SHEET NO.
	VA.	495		0495-029-419	X10 AREA 4

Cross Section Labels Are Pertinent Only To The Roadway Associated To The Alignment In Focus. For Labels On Other Roadway See The Appropriate Cross Section Sheet.



APPROVED FOR CONSTRUCTION

PROJECT MANAGER VDOT - Bipal Stab PE (703) 259-2362
SURVEYED BY DATE BDA - Nicholas Kougoulis LS (703) 334-0837, 12/2021
DESIGN BY BDA - Darrell Eischer BE (703) 334-0823, Dexberry - Ron Jakominich PE (703) 849-0651
SUBSURFACE UTILITY BY DATE Accurmark - Michael Taylor LS (703) 635-3060, 12/2021

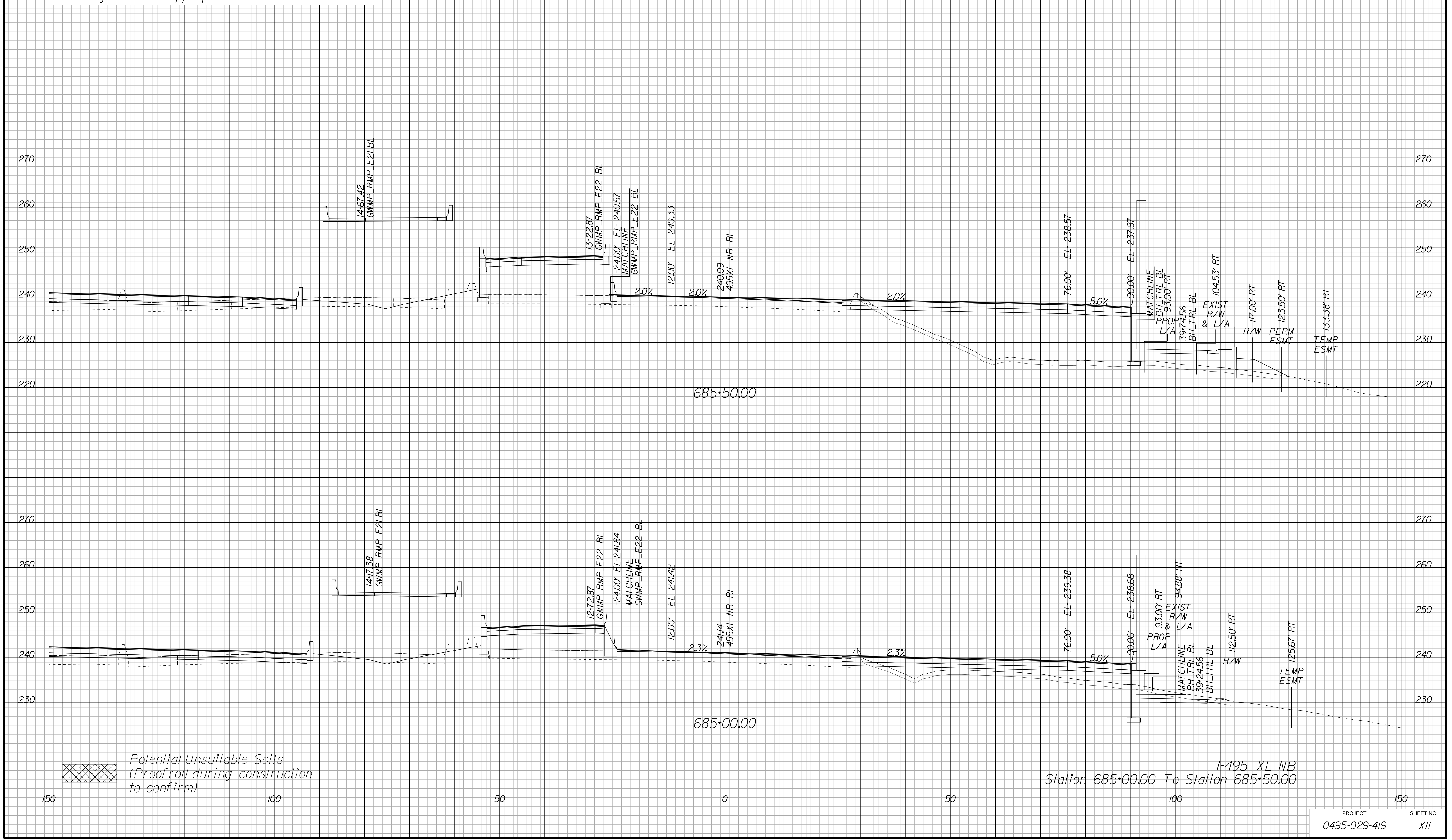
CROSS SECTIONS


SCALE 1 IN. = 10 FT

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

REVISED	STATE	STATE		SHEET NO.
		ROUTE	PROJECT	
	VA.	495	0495-029-419	XII AREA 4

Cross Section Labels Are Pertinent Only To The Roadway Associated To The Alignment In Focus. For Labels On Other Roadway See The Appropriate Cross Section Sheet.



 Potential Unsuitable Soils (Proofroll during construction to confirm)

I-495 XL NB
Station 685+00.00 To Station 685+50.00

PROJECT 0495-029-419	SHEET NO. XII
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APPROVED FOR CONSTRUCTION

PROJECT MANAGER VDOT - *Bimal Sab PE (703) 259-2362*
SURVEYED BY, DATE BDA - *Nicholas Kougoulis LS (703) 334-0837, 12/2021*
DESIGN BY BDA - *Darell Eischer BE (703) 334-0823, Dexberry - Ron Jakominich PE (703) 849-0651*
SUBSURFACE UTILITY BY, DATE *Accurmark - Michael Taylor LS (703) 635-3060, 12/2021*

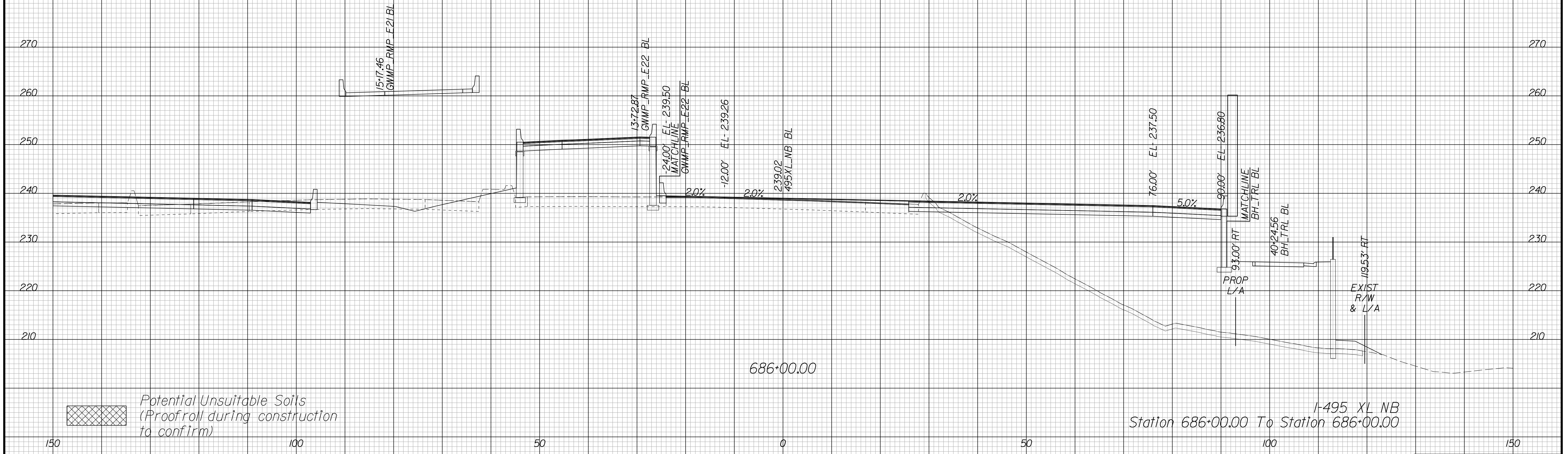
CROSS SECTIONS

SCALE 1 IN. = 10 FT

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

REVISED	STATE	STATE		SHEET NO.
	ROUTE	PROJECT		
	VA.	495	0495-029-419	X12 AREA 4

Cross Section Labels Are Pertinent Only To The Roadway Associated To The Alignment In Focus. For Labels On Other Roadway See The Appropriate Cross Section Sheet.



PROJECT	SHEET NO.
0495-029-419	X12

APPROVED FOR CONSTRUCTION

PROJECT MANAGER VDOT - *Bimbal Stab PE (703) 259-2362*
SURVEYED BY, DATE BDA - *Nicholas Kougoulis LS (703) 334-0837, 12/2021*
DESIGN BY BDA - *Darell Eischer BE (703) 334-0823, Dexberry - Ron Jakominich PE (703) 849-0651*
SUBSURFACE UTILITY BY, DATE *Accurmark - Michael Taylor LS (703) 635-3060, 12/2021*

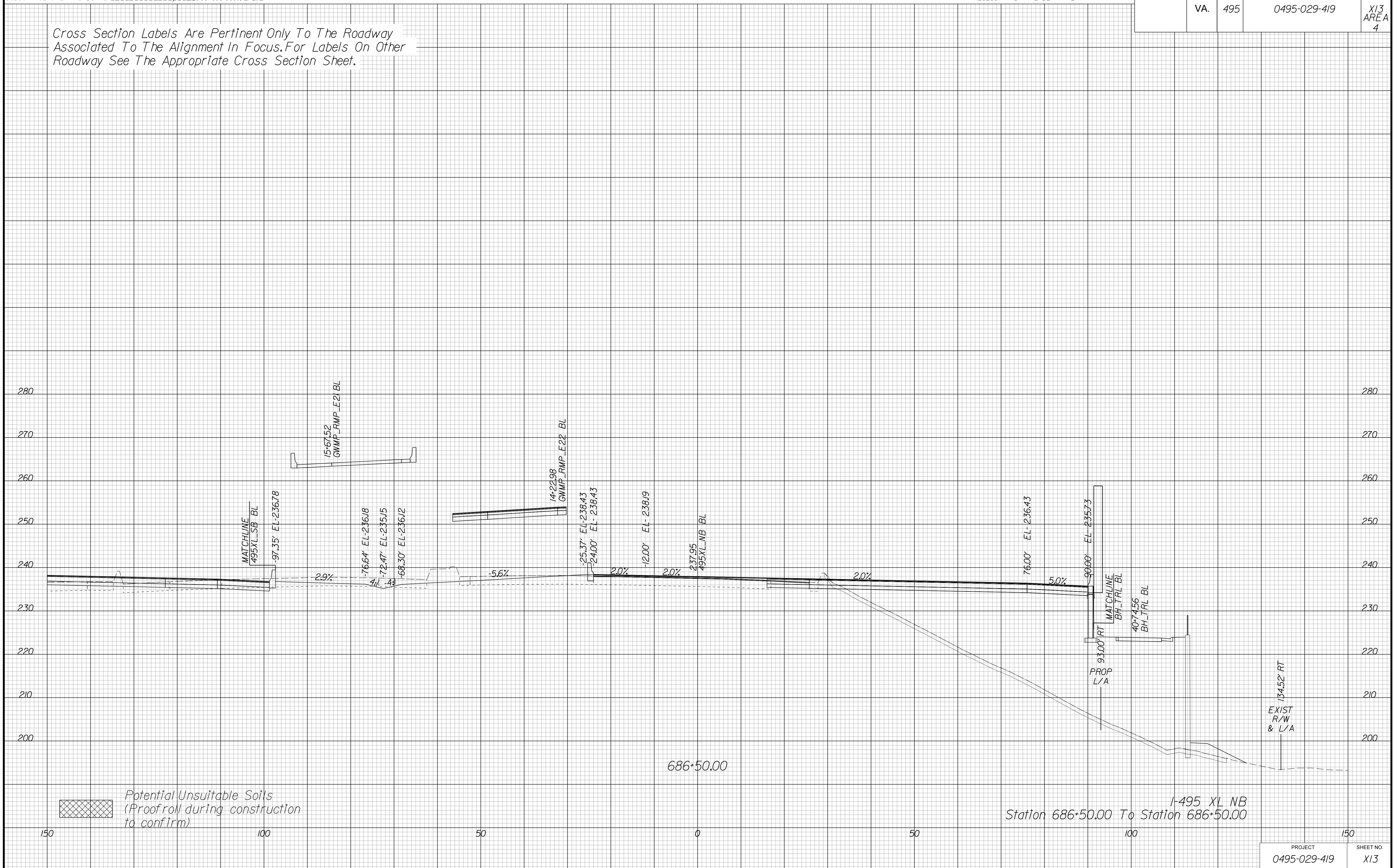
CROSS SECTIONS

SCALE 1 IN. = 10 FT

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

REVISED	STATE	ROUTE	STATE PROJECT	SHEET NO.
	VA.	495	0495-029-419	X13 AREA 4

Cross Section Labels Are Pertinent Only To The Roadway Associated To The Alignment In Focus. For Labels On Other Roadway See The Appropriate Cross Section Sheet.



APPROVED FOR CONSTRUCTION

PROJECT MANAGER VDOT - Bimbal Stab PE (703) 259-2362
SURVEYED BY DATE BDA - Nicholas Kougoulis LS (703) 334-0837, 12/2021
DESIGN BY BDA - Darrell Elischer BE (703) 334-0823, Dewberry - Ron Jakominich PE (703) 849-0651
SUBSURFACE UTILITY BY DATE Accurmark - Michael Taylor LS (703) 635-3060, 12/2021

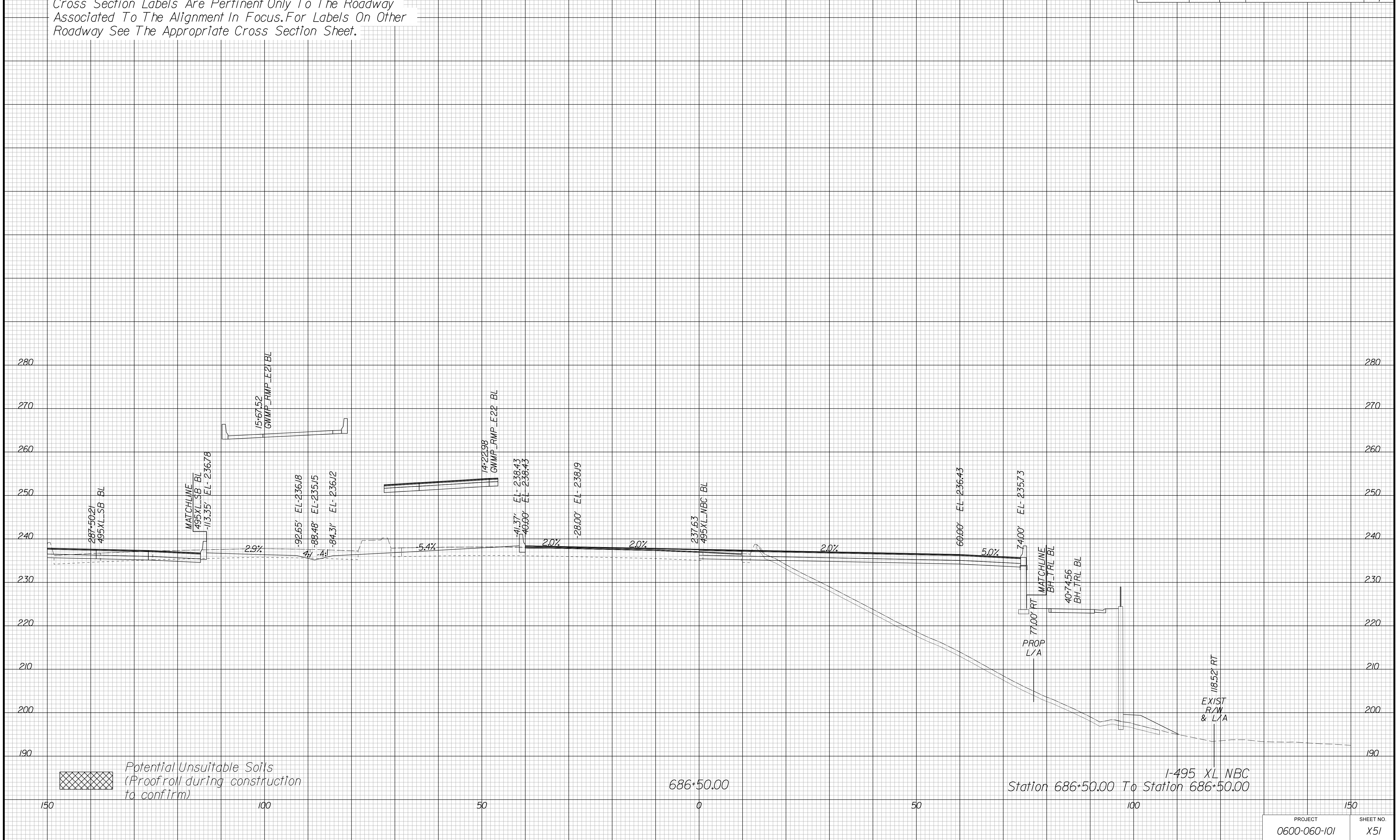
CROSS SECTIONS

SCALE 1 IN. = 10 FT

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

REVISED	STATE	ROUTE	STATE PROJECT	SHEET NO.
	VA.	495	0495-029-419	X51 AREA 4

Cross Section Labels Are Pertinent Only To The Roadway Associated To The Alignment In Focus. For Labels On Other Roadway See The Appropriate Cross Section Sheet.



APPROVED FOR CONSTRUCTION

PROJECT MANAGER VDOT - Bimal Sab PE (703) 259-2362
SURVEYED BY, DATE BDA - Nicholas Kougoulis LS (703) 334-0837, 12/2021
DESIGN BY BDA - Darrell Eischer PE (703) 334-0823, Dewberry - Ron Jakominich PE (703) 849-0651
SUBSURFACE UTILITY BY, DATE Accurmark - Michael Taylor LS (703) 635-3060, 12/2021

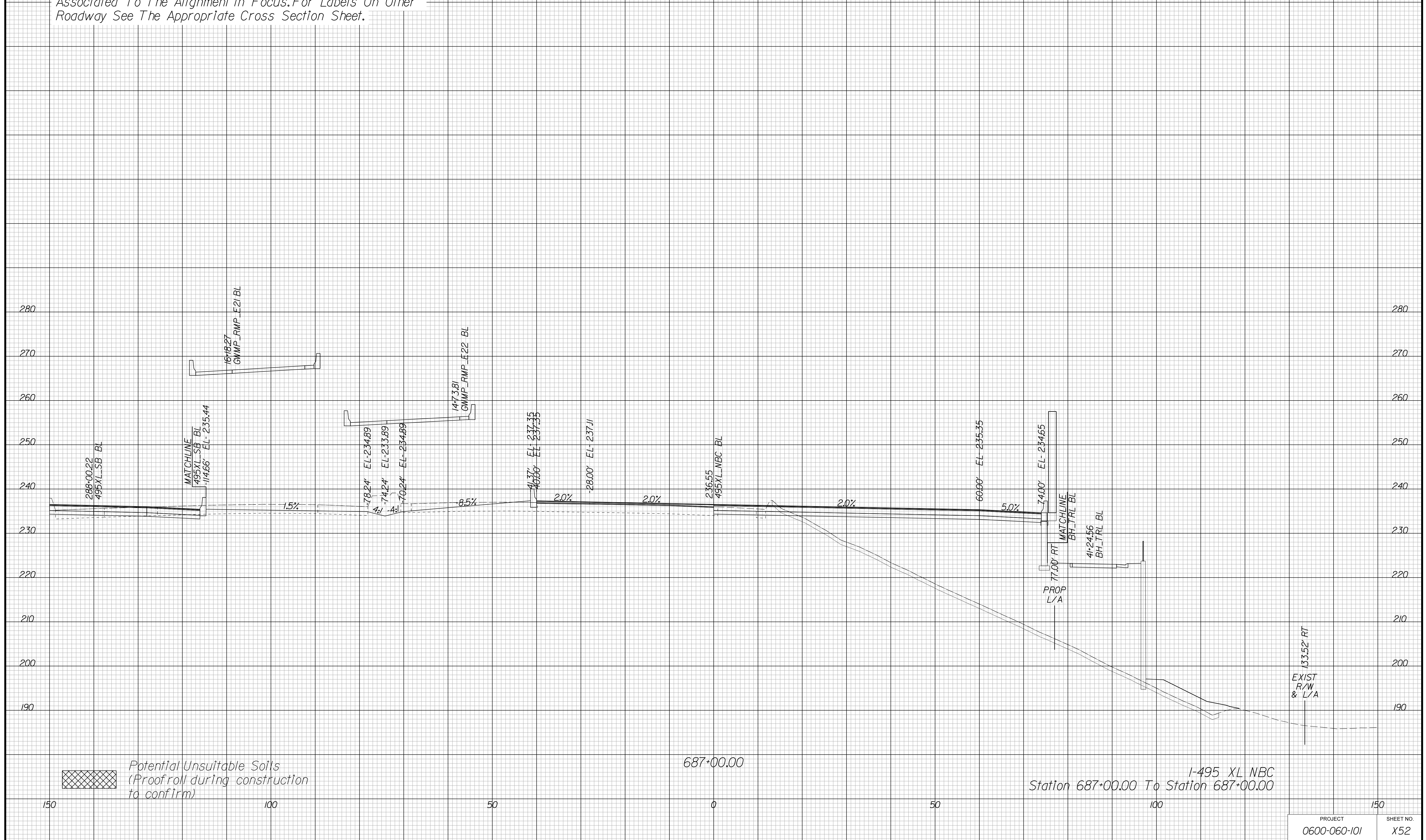
CROSS SECTIONS

SCALE 1 IN. = 10 FT

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

REVISED	STATE	ROUTE	STATE PROJECT	SHEET NO.
	VA.	495	0495-029-419	X52 AREA 4

Cross Section Labels Are Pertinent Only To The Roadway Associated To The Alignment In Focus. For Labels On Other Roadway See The Appropriate Cross Section Sheet.



PROJECT	SHEET NO.
0600-060-101	X52

APPROVED FOR CONSTRUCTION

PROJECT MANAGER VDOT - Bimbal Stab PE (703) 259-2362
SURVEYED BY, DATE BDA - Nicholas Kougoulis LS (703) 334-0837, 12/2021
DESIGN BY BDA - Darrell Elischer BE (703) 334-0823, Dawbercy - Ron Jakominich PE (703) 849-0651
SUBSURFACE UTILITY BY, DATE Accurmark - Michael Taylor LS (703) 635-3060, 12/2021

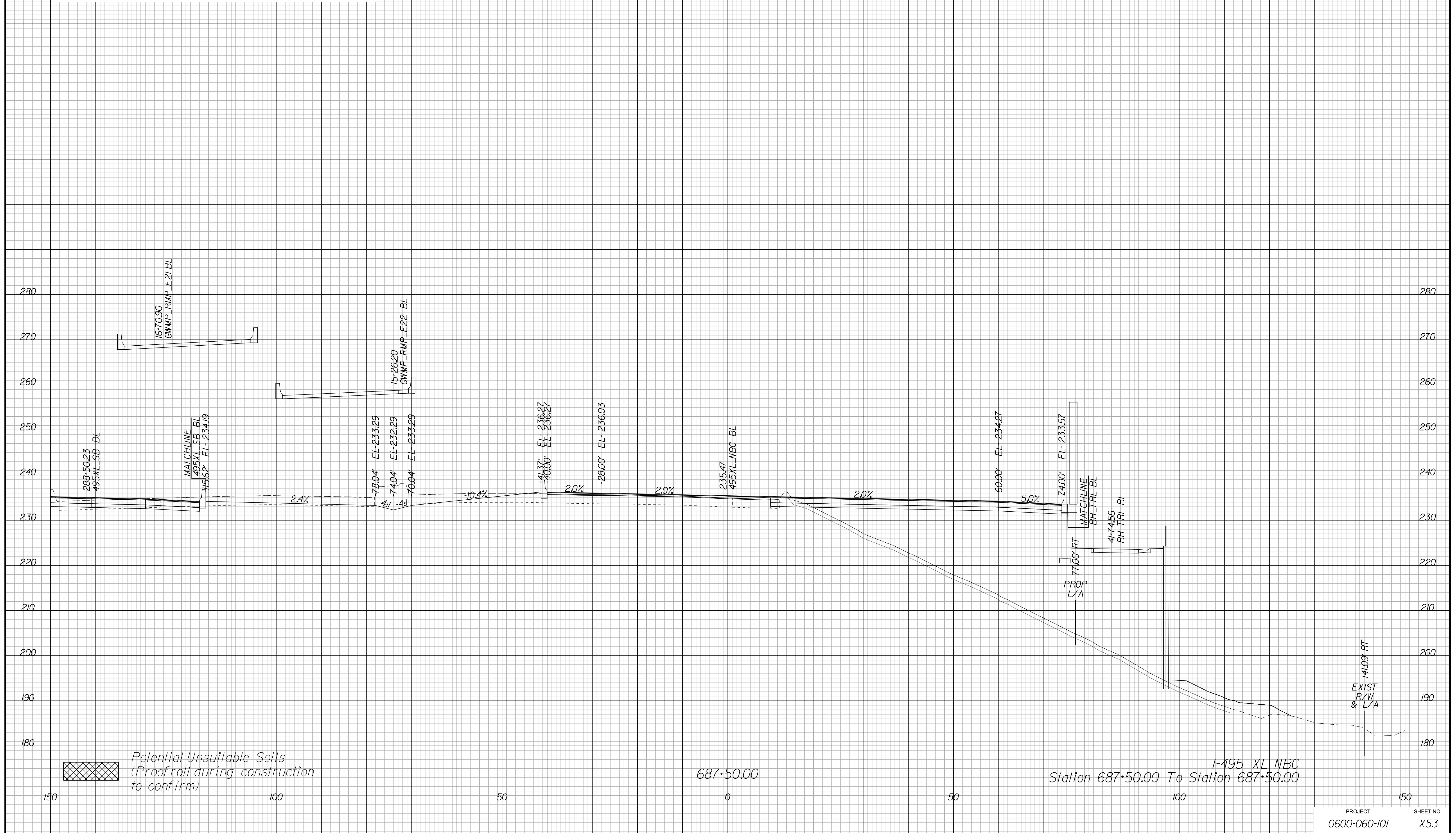
CROSS SECTIONS

SCALE 1 IN. = 10 FT

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

REVISED	STATE		STATE PROJECT	SHEET NO.
	STATE	ROUTE		
	VA.	495	0495-029-419	X53 AREA 4

Cross Section Labels Are Pertinent Only To The Roadway Associated To The Alignment In Focus. For Labels On Other Roadway See The Appropriate Cross Section Sheet.



PROJECT	SHEET NO.
0600-060-101	X53

APPROVED FOR CONSTRUCTION

PROJECT MANAGER VDOT - Bimbal Stab PE (703) 259-2362
SURVEYED BY, DATE BDA - Nicholas Kougoulis LS (703) 334-0837, 12/2021
DESIGN BY BDA - Darell Eischer BE (703) 334-0823, Dewberry - Ron Jakominich PE (703) 849-0651
SUBSURFACE UTILITY BY, DATE Accurmark - Michael Taylor LS (703) 635-3060, 12/2021

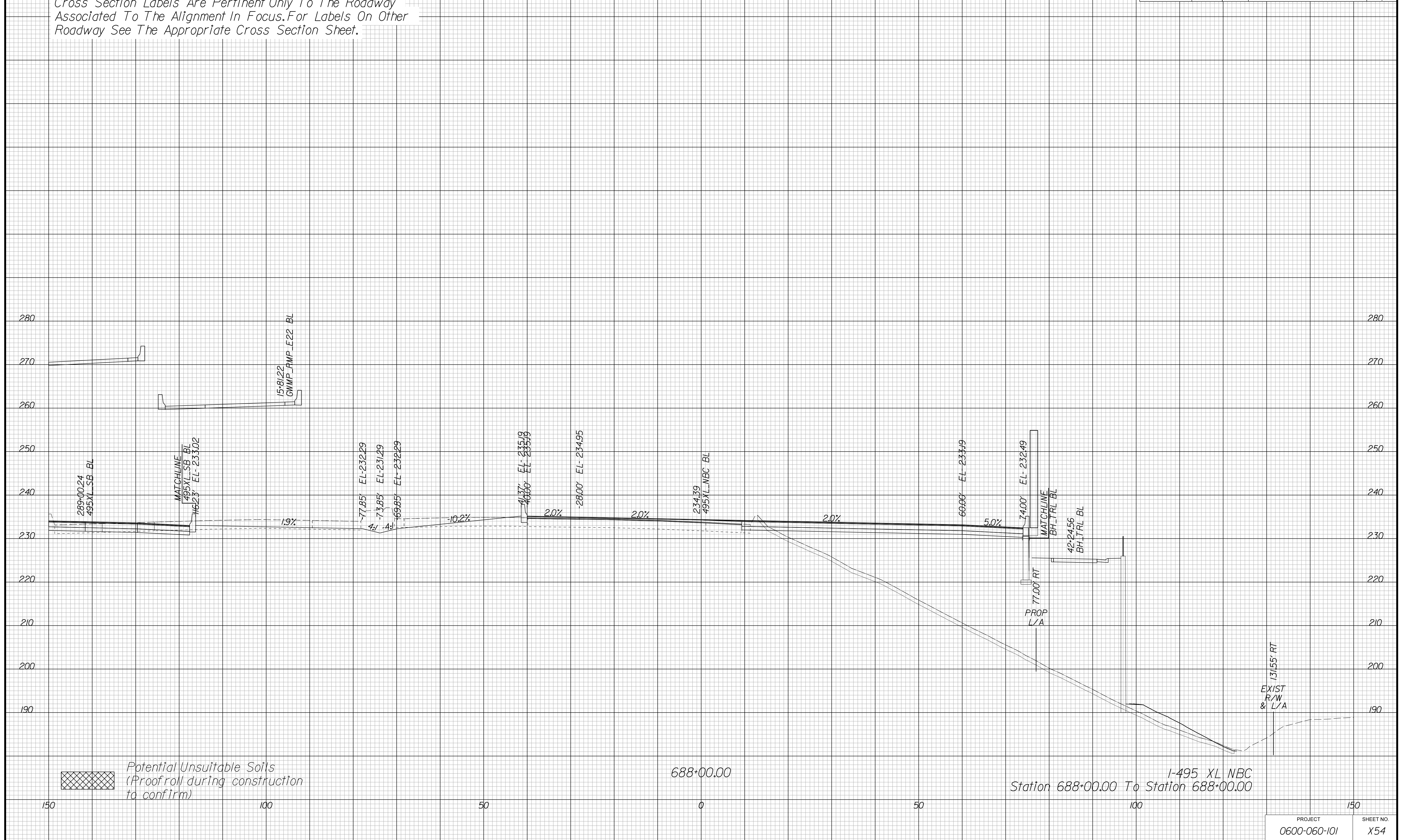
CROSS SECTIONS

SCALE 1 IN. = 10 FT

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

REVISED	STATE	ROUTE	STATE PROJECT	SHEET NO.
	VA.	495	0600-060-101	X54 AREA 4

Cross Section Labels Are Pertinent Only To The Roadway Associated To The Alignment In Focus. For Labels On Other Roadway See The Appropriate Cross Section Sheet.



I-495 XL NBC
Station 688+00.00 To Station 688+00.00

PROJECT	SHEET NO.
0600-060-101	X54

APPROVED FOR CONSTRUCTION

PROJECT MANAGER VDOT - Bipal Sab PE (703) 259-2362
SURVEYED BY, DATE BDA - Nicholas Kougoulis LS (703) 334-0837, 12/2021
DESIGN BY BDA - Darrell Elischer BE (703) 334-0823, Dawberly - Ron Jakominich PE (703) 849-0651
SUBSURFACE UTILITY BY, DATE Accurmark - Michael Taylor LS (703) 635-3060, 12/2021

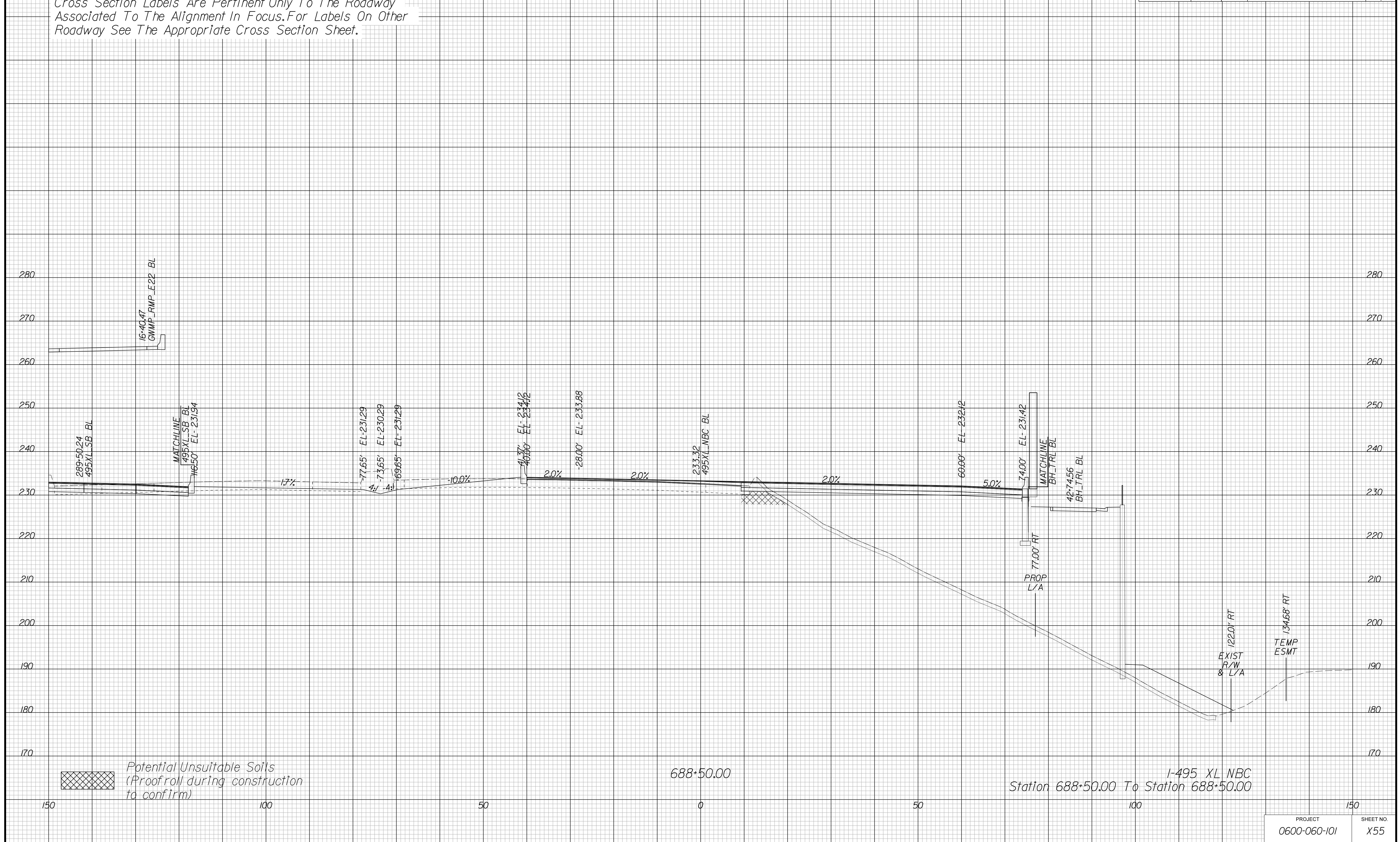
CROSS SECTIONS

SCALE 1 IN. = 10 FT

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

REVISED	STATE	ROUTE	STATE	PROJECT	SHEET NO.
	VA.	495		0495-029-419	X55 AREA 4

Cross Section Labels Are Pertinent Only To The Roadway Associated To The Alignment In Focus. For Labels On Other Roadway See The Appropriate Cross Section Sheet.



APPROVED FOR CONSTRUCTION

PROJECT	SHEET NO.
0600-060-101	X55

PROJECT MANAGER VDOT - Bimbal Stab PE (703) 259-2362
SURVEYED BY, DATE BDA - Nicholas Kougoulis LS (703) 334-0837, 12/2021
DESIGN BY BDA - Darrell Elischer BE (703) 334-0823, Dawberly - Ron Jakominich PE (703) 849-0651
SUBSURFACE UTILITY BY, DATE Accurmark - Michael Taylor LS (703) 635-3060, 12/2021

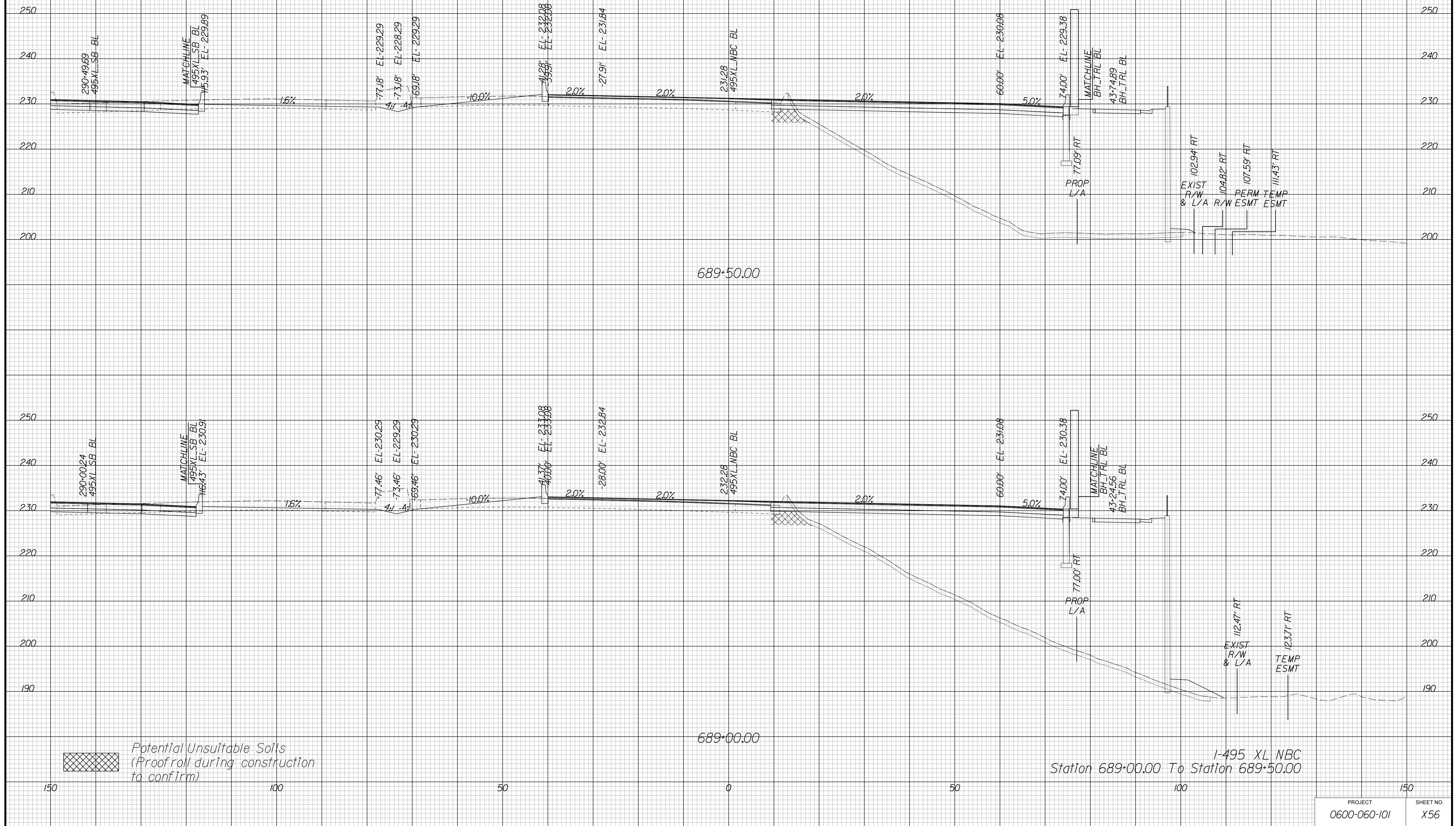
CROSS SECTIONS

SCALE 1 IN. = 10 FT

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

REVISED	STATE	ROUTE	STATE	PROJECT	SHEET NO.
	VA.	495		0495-029-419	X56 AREA 4

Cross Section Labels Are Pertinent Only To The Roadway Associated To The Alignment In Focus. For Labels On Other Roadway See The Appropriate Cross Section Sheet.



APPROVED FOR CONSTRUCTION

PROJECT MANAGER VDOT - Bimbal Sabb PE (703) 259-2362
SURVEYED BY DATE BDA - Nicholas Kougoulis LS (703) 334-0837, 12/2021
DESIGN BY BDA - Darrell Eischer BE (703) 334-0823, Dexberry - Ron Jakominich PE (703) 849-0651
SUBSURFACE UTILITY BY DATE Accurmark - Michael Taylor LS (703) 635-3060, 12/2021

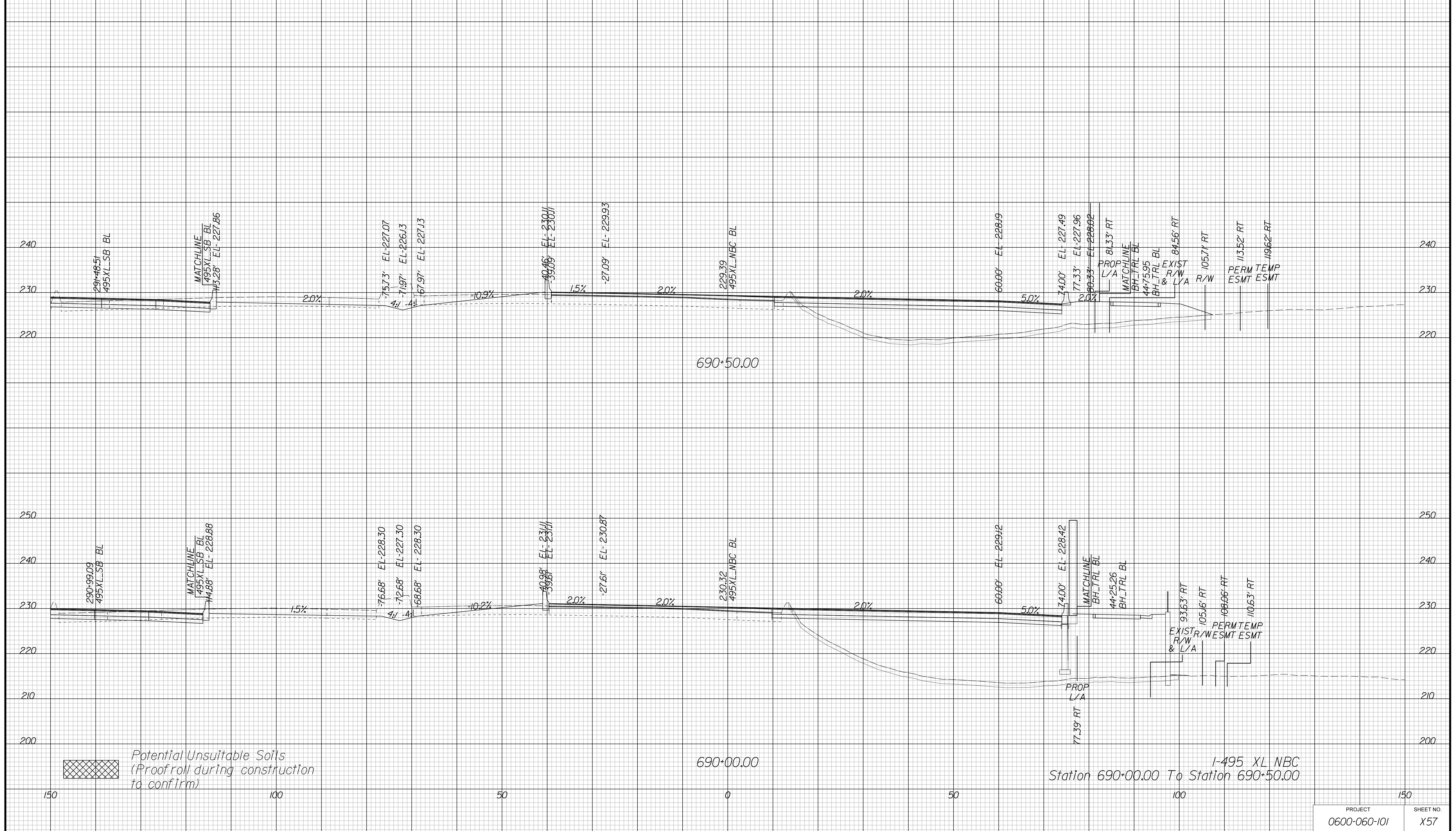
CROSS SECTIONS

SCALE 1 IN. = 10 FT

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

REVISED	STATE	ROUTE	STATE	PROJECT	SHEET NO.
	VA.	690		0600-060-101#1501	X57 AREA 4

Cross Section Labels Are Pertinent Only To The Roadway Associated To The Alignment In Focus. For Labels On Other Roadway See The Appropriate Cross Section Sheet.



Potential Unsuitable Soils (Proofroll during construction to confirm)

I-495 XL NBC
Station 690+00.00 To Station 690+50.00

PROJECT	SHEET NO.
0600-060-101	X57

APPROVED FOR CONSTRUCTION

PROJECT MANAGER VDOT - Bimbal Stab PE (703) 259-2362
SURVEYED BY DATE BDA - Nicholas Kougoulis LS (703) 334-0837, 12/2021
DESIGN BY BDA - Darell Elischer BE (703) 334-0823, Dexberry - Ron Jakominich PE (703) 849-0651
SUBSURFACE UTILITY BY DATE Accurmark - Michael Taylor LS (703) 635-3060, 12/2021

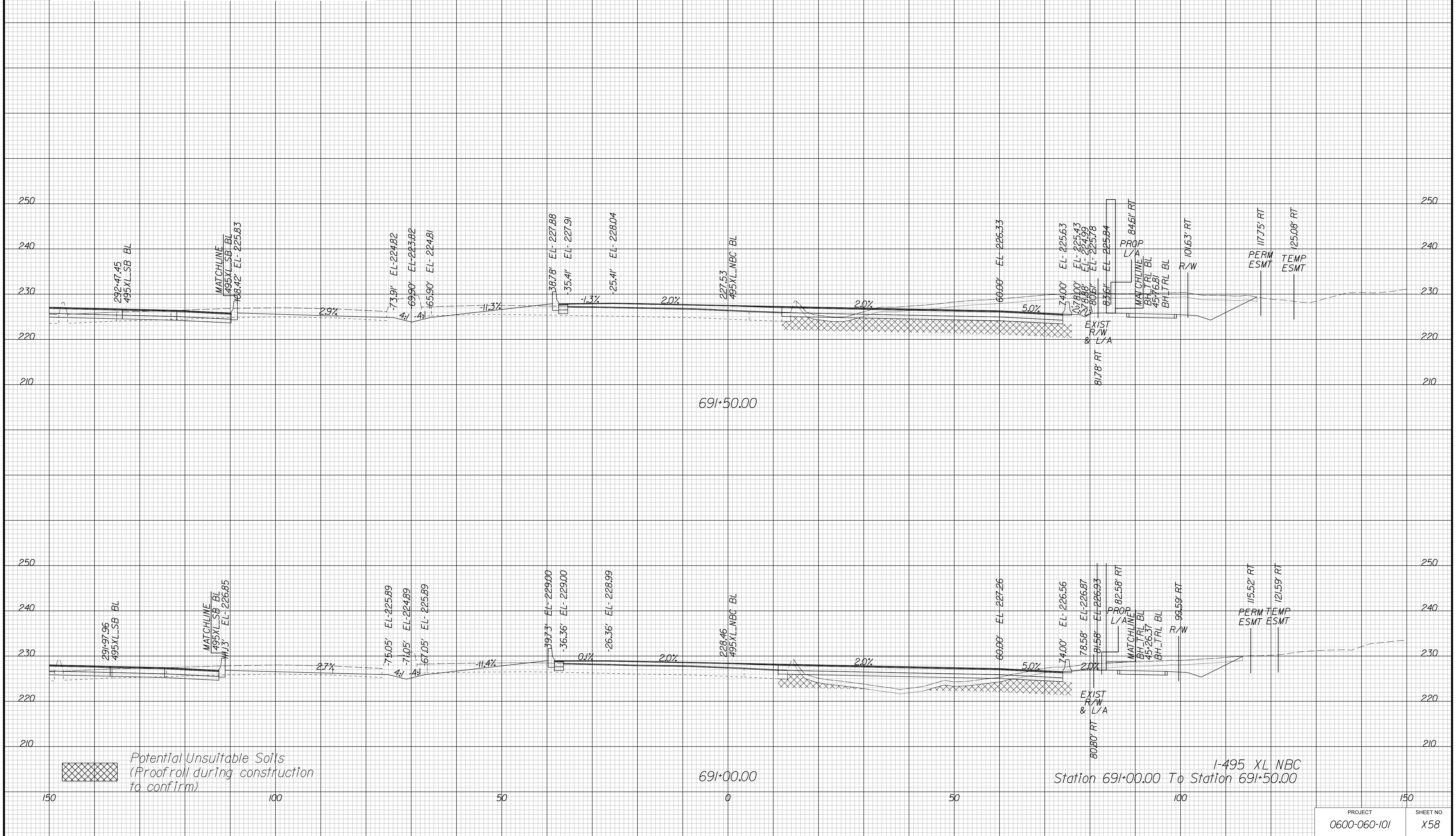
CROSS SECTIONS

SCALE 1 IN. = 10 FT

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

REVISED	STATE	ROUTE	STATE	PROJECT	SHEET NO.
	VA.	495		0495-029-419	X58 AREA 4

Cross Section Labels Are Pertinent Only To The Roadway Associated To The Alignment In Focus. For Labels On Other Roadway See The Appropriate Cross Section Sheet.



APPROVED FOR CONSTRUCTION

PROJECT MANAGER VDOT - Bimal Sab PE (703) 259-2362
SURVEYED BY DATE BDA - Nicholas Kougoulis LS (703) 334-0837, 12/2021
DESIGN BY BDA - Darell Elischer BE (703) 334-0823, Dexberry - Ron Jakominich PE (703) 849-0651
SUBSURFACE UTILITY BY DATE Accurmark - Michael Taylor LS (703) 635-3060, 12/2021

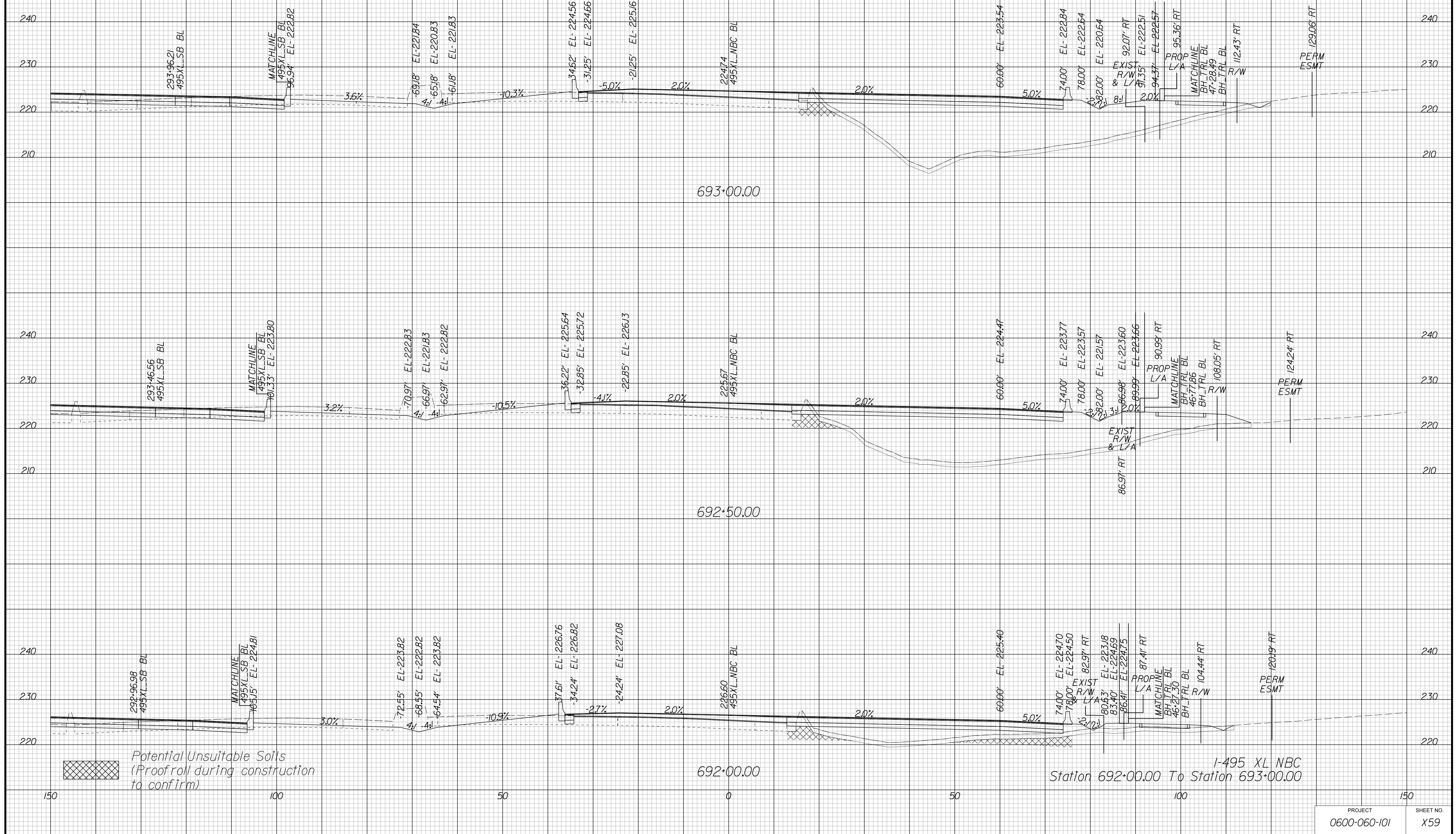
CROSS SECTIONS

SCALE 1 IN. = 10 FT

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

REVISION	STATE	ROUTE	STATE	PROJECT	SHEET NO.
	VA.	495		0495-029-419	X59 AREA 4

Cross Section Labels Are Pertinent Only To The Roadway Associated To The Alignment In Focus. For Labels On Other Roadway See The Appropriate Cross Section Sheet.



I-495 XL NBC
Station 692+00.00 To Station 693+00.00

PROJECT	SHEET NO.
0600-060-101	X59

APPROVED FOR CONSTRUCTION

PROJECT MANAGER VDOT - Bimbal Stab PE (703) 259-2362
SURVEYED BY DATE BDA - Nicholas Kougoulis LS (703) 334-0837, 12/2021
DESIGN BY BDA - Darell Elischer BE (703) 334-0823, Dawbercy - Ron Jakominich PE (703) 849-0651
SUBSURFACE UTILITY BY DATE Accurmark - Michael Taylor LS (703) 635-3060, 12/2021

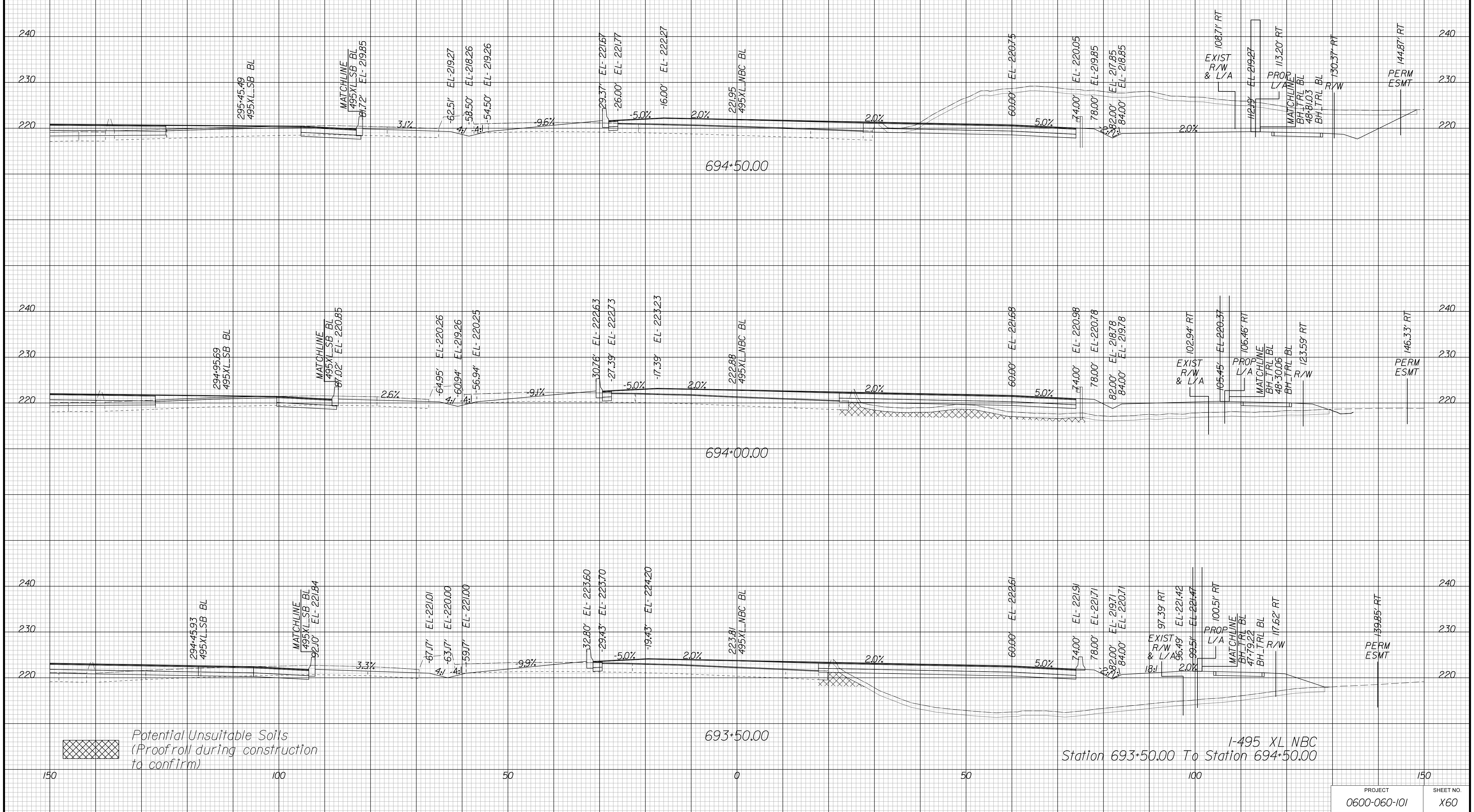
CROSS SECTIONS

SCALE 1 IN. = 10 FT

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

REVISD	STATE	ROUTE	STATE	PROJECT	SHEET NO.
	VA.	495		0495-029-419	X60 AREA 4

Cross Section Labels Are Pertinent Only To The Roadway Associated To The Alignment In Focus. For Labels On Other Roadway See The Appropriate Cross Section Sheet.



Potential Unsuitable Soils (Proofroll during construction to confirm)

I-495 XL NBC
Station 693+50.00 To Station 694+50.00

PROJECT	SHEET NO.
0600-060-101	X60

APPROVED FOR CONSTRUCTION

PROJECT MANAGER VDOT - Bimbal Stab PE (703) 259-2362
SURVEYED BY DATE BDA - Nicholas Kougoulis LS (703) 334-0837, 12/2021
DESIGN BY BDA - Darrell Elischer BE (703) 334-0823, Daxbery - Ron Jakominich PE (703) 849-0651
SUBSURFACE UTILITY BY DATE Accurmark - Michael Taylor LS (703) 635-3060, 12/2021

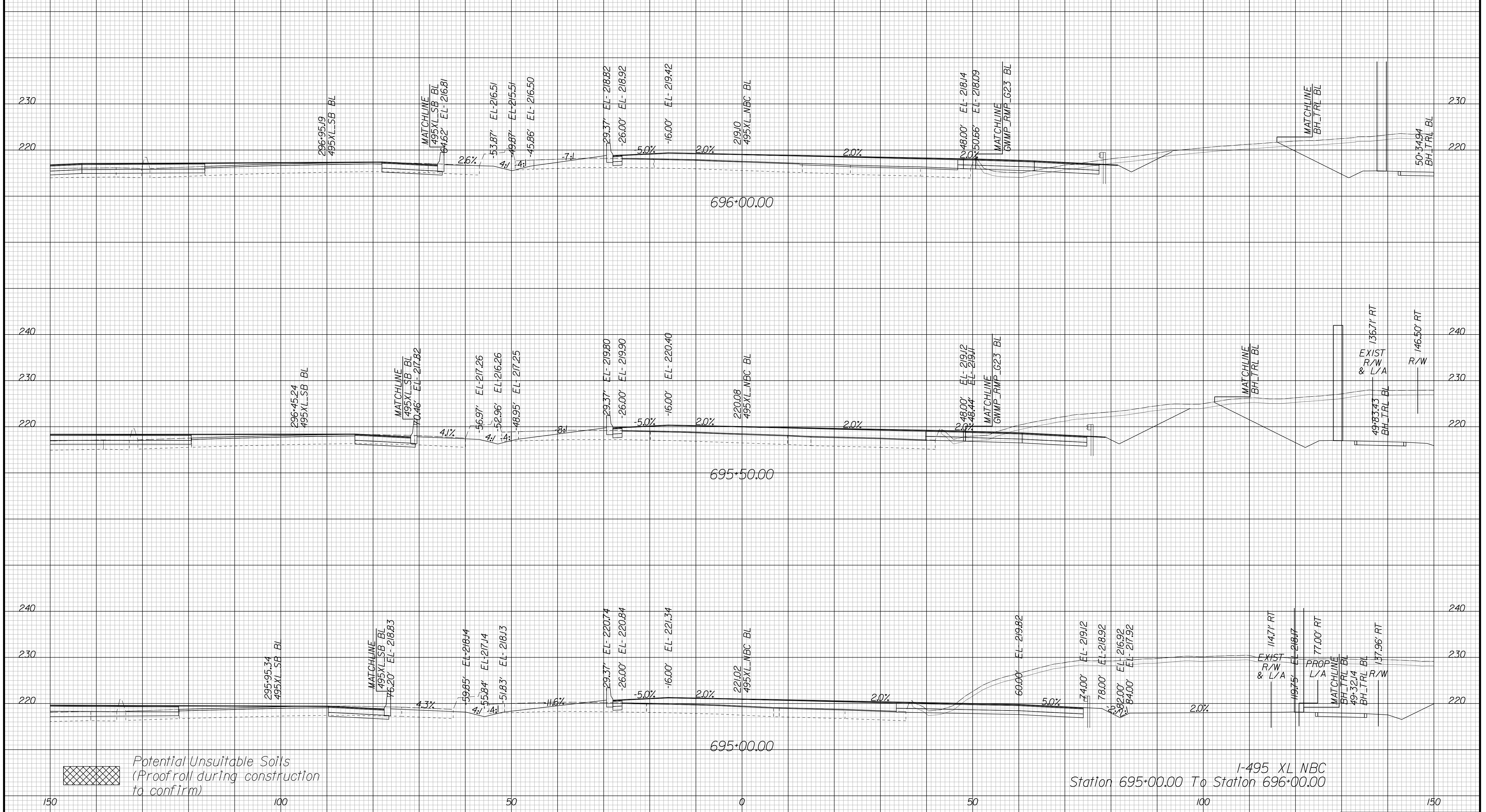
CROSS SECTIONS

SCALE 1 IN. = 10 FT

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

REVISED	STATE	ROUTE	STATE	PROJECT	SHEET NO.
	VA.	495		0495-029-419	X61 AREA 4

Cross Section Labels Are Pertinent Only To The Roadway Associated To The Alignment In Focus. For Labels On Other Roadway See The Appropriate Cross Section Sheet.



APPROVED FOR CONSTRUCTION

PROJECT MANAGER VDOT - Bimbal Stab PE (703) 259-2362
SURVEYED BY DATE BDA - Nicholas Kougoulis LS (703) 334-0837, 12/2021
DESIGN BY BDA - Darrell Elischer BE (703) 334-0823, Dexberry - Ron Jakominich PE (703) 849-0651
SUBSURFACE UTILITY BY DATE Accurmark - Michael Taylor LS (703) 635-3060, 12/2021

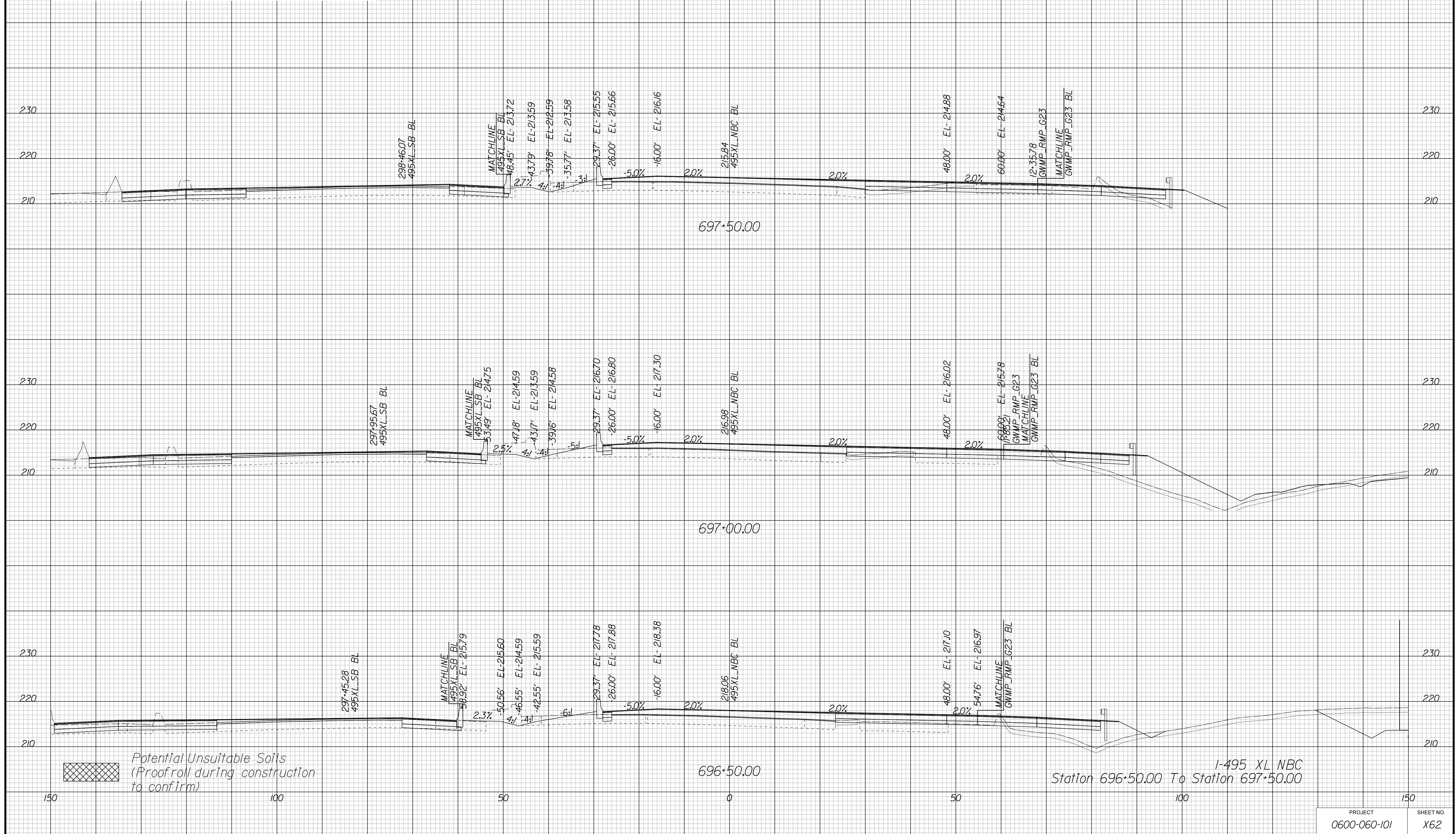
CROSS SECTIONS

SCALE 1 IN. = 10 FT

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

REVISED	STATE	ROUTE	STATE	PROJECT	SHEET NO.
	VA.	495		0495-029-419	X62 AREA 4

Cross Section Labels Are Pertinent Only To The Roadway Associated To The Alignment In Focus. For Labels On Other Roadway See The Appropriate Cross Section Sheet.



APPROVED FOR CONSTRUCTION

PROJECT MANAGER VDOT - Bimbal Stab PE (703) 259-2362
SURVEYED BY DATE BDA - Nicholas Kougoulis LS (703) 334-0837, 12/2021
DESIGN BY BDA - Darrell Elischer BE (703) 334-0823, Dawbercy - Ron Jakominich PE (703) 849-0651
SUBSURFACE UTILITY BY DATE Accurmark - Michael Taylor LS (703) 635-3060, 12/2021

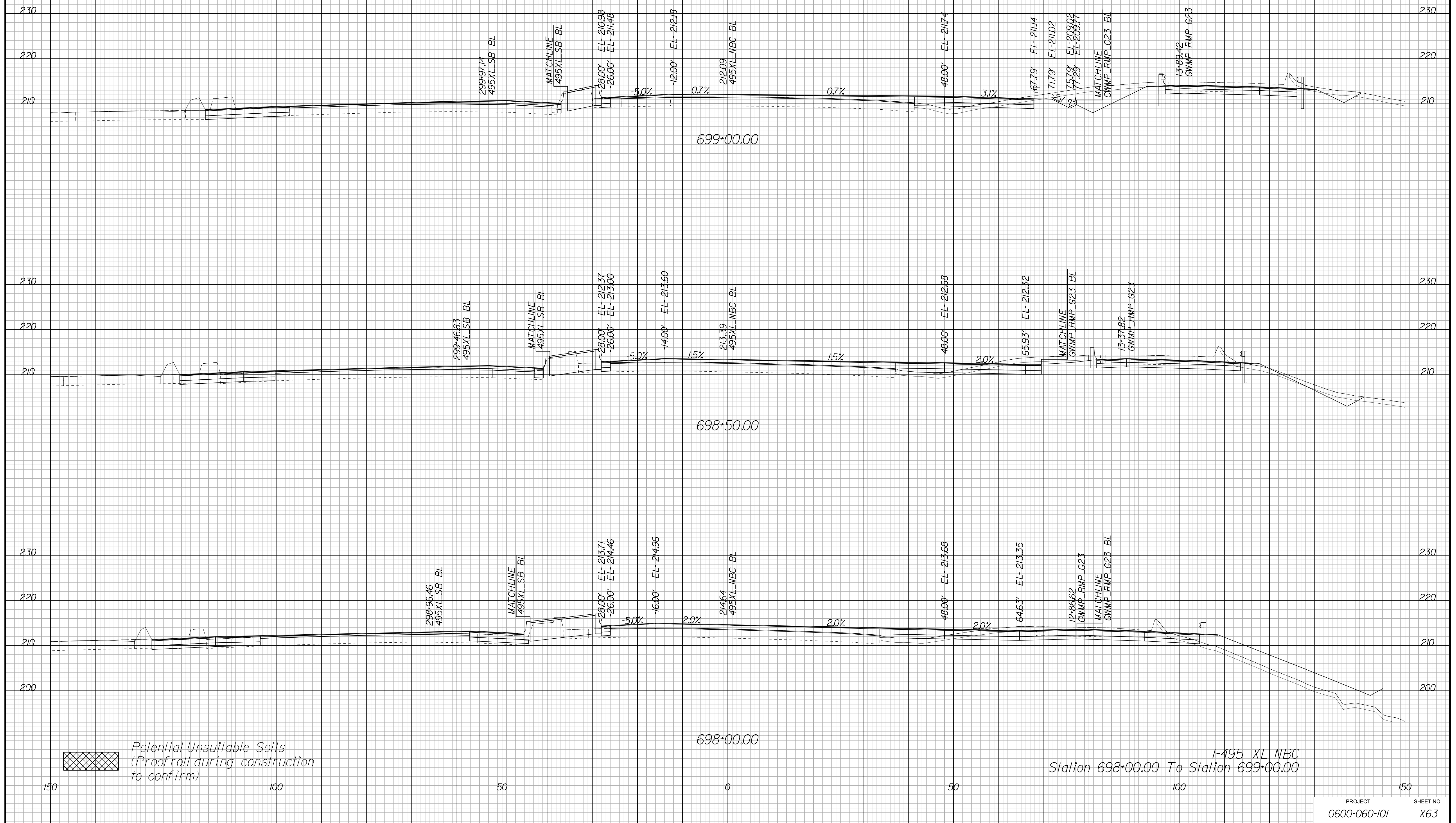
CROSS SECTIONS

SCALE 1 IN. = 10 FT

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

REVISID	STATE	ROUTE	STATE	PROJECT	SHEET NO.
	VA.	495		0495-029-419	X63 AREA 4

Cross Section Labels Are Pertinent Only To The Roadway Associated To The Alignment In Focus. For Labels On Other Roadway See The Appropriate Cross Section Sheet.



APPROVED FOR CONSTRUCTION

PROJECT	SHEET NO.
0600-060-101	X63

PROJECT MANAGER VDOT - Bimbal Stab PE (703) 259-2362
SURVEYED BY DATE BDA - Nicholas Kougoulis LS (703) 334-0837, 12/2021
DESIGN BY BDA - Darrell Elischer BE (703) 334-0823, Dexberry - Ron Jakominich PE (703) 849-0651
SUBSURFACE UTILITY BY DATE Accurmark - Michael Taylor LS (703) 635-3060, 12/2021

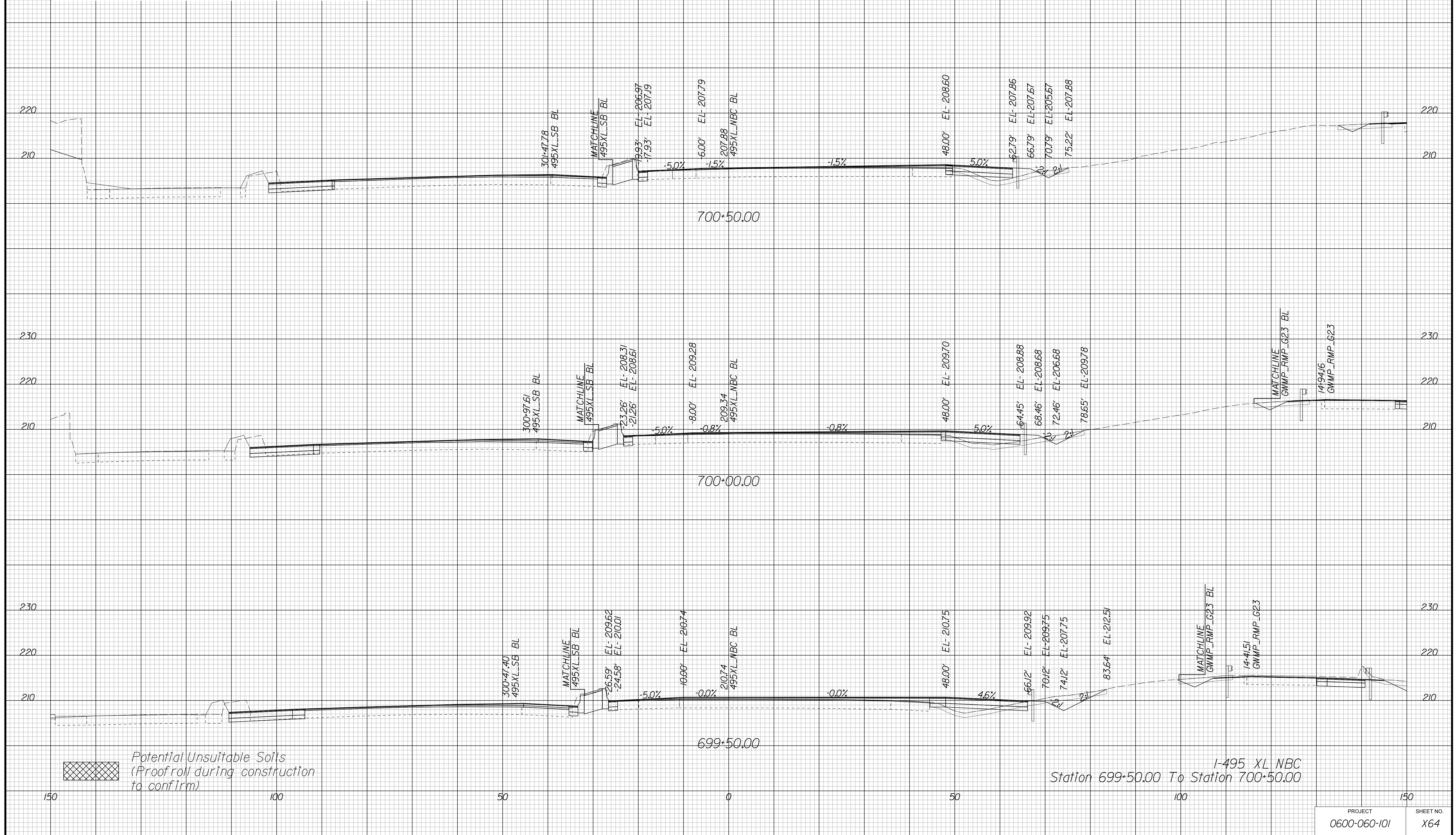
CROSS SECTIONS

SCALE 1 IN. = 10 FT

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

REVISED	STATE	ROUTE	STATE	PROJECT	SHEET NO.
	VA.	495		0495-029-419	X64 AREA 4

Cross Section Labels Are Pertinent Only To The Roadway Associated To The Alignment In Focus. For Labels On Other Roadway See The Appropriate Cross Section Sheet.



APPROVED FOR CONSTRUCTION

PROJECT MANAGER VDOT - Bipal Stab PE (703) 259-2362
SURVEYED BY DATE BDA - Nicholas Kougoulis LS (703) 334-0837, 12/2021
DESIGN BY BDA - Darrell Eischer BE (703) 334-0823, Dawbercy - Ron Jakominich PE (703) 849-0651
SUBSURFACE UTILITY BY DATE Accurmark - Michael Taylor LS (703) 635-3060, 12/2021

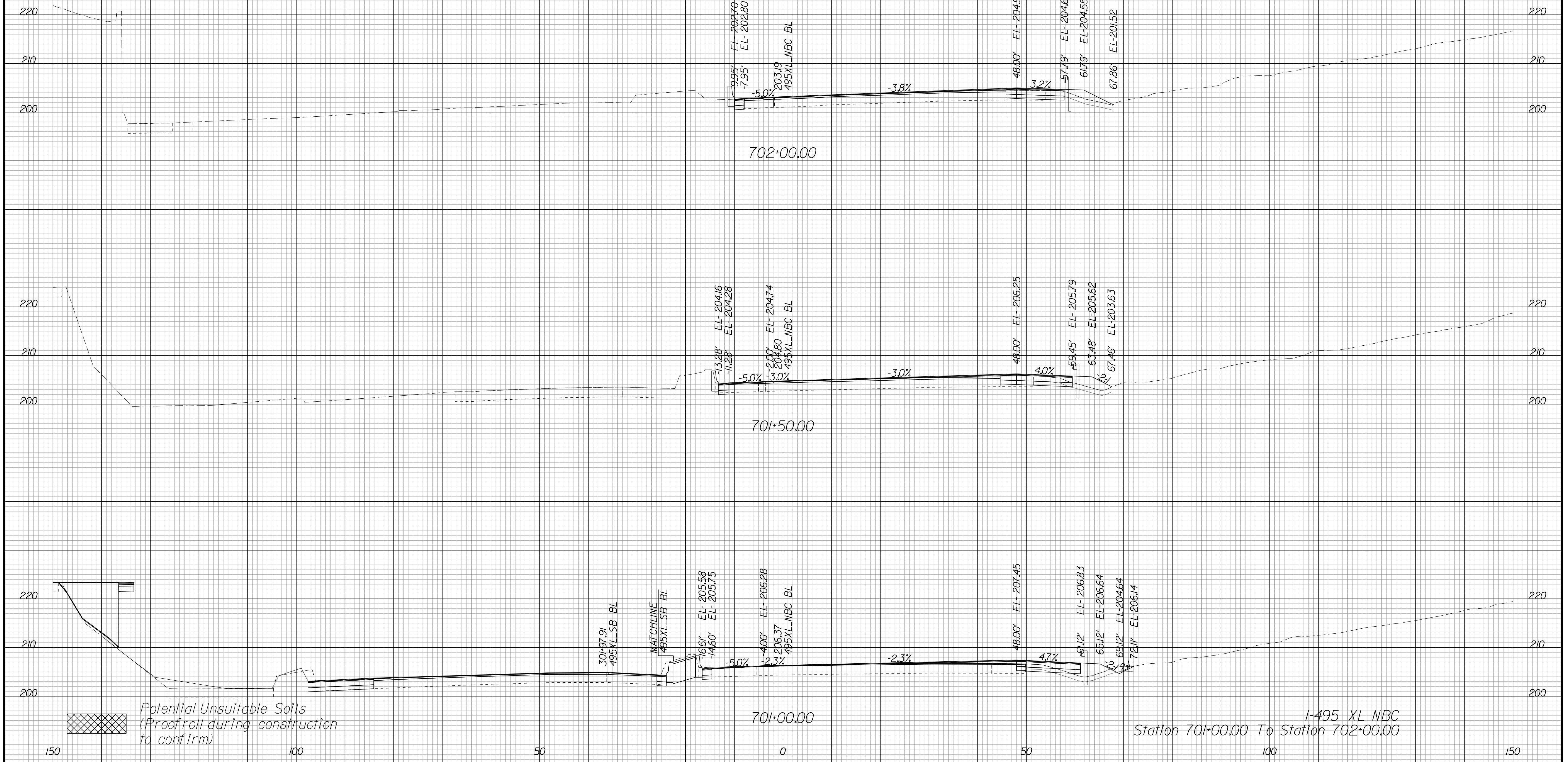
CROSS SECTIONS

SCALE 1 IN. = 10 FT

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

REVISED	STATE	ROUTE	STATE PROJECT	SHEET NO.
	VA.	495	0495-029-419	X65 AREA 4

Cross Section Labels Are Pertinent Only To The Roadway Associated To The Alignment In Focus. For Labels On Other Roadway See The Appropriate Cross Section Sheet.



Potential Unsuitable Soils (Proofroll during construction to confirm)

I-495 XL NBC Station 701+00.00 To Station 702+00.00

PROJECT	SHEET NO.
0600-060-101	X65

APPROVED FOR CONSTRUCTION

PROJECT MANAGER VDOT - Bipal Stab, PE, (703) 259-2362
SURVEYED BY, DATE BDA - Nicholas Kougoulis, LS, (703) 334-0837, 12/2021
DESIGN BY BDA - Darrell Eischer, BE, (703) 334-0823, Daxbery - Ron Jakominich, PE, (703) 849-0651
SUBSURFACE UTILITY BY, DATE Accurmark - Michael Taylor, LS, (703) 635-3060, 12/2021

CROSS SECTIONS

SCALE 1 IN. = 10 FT

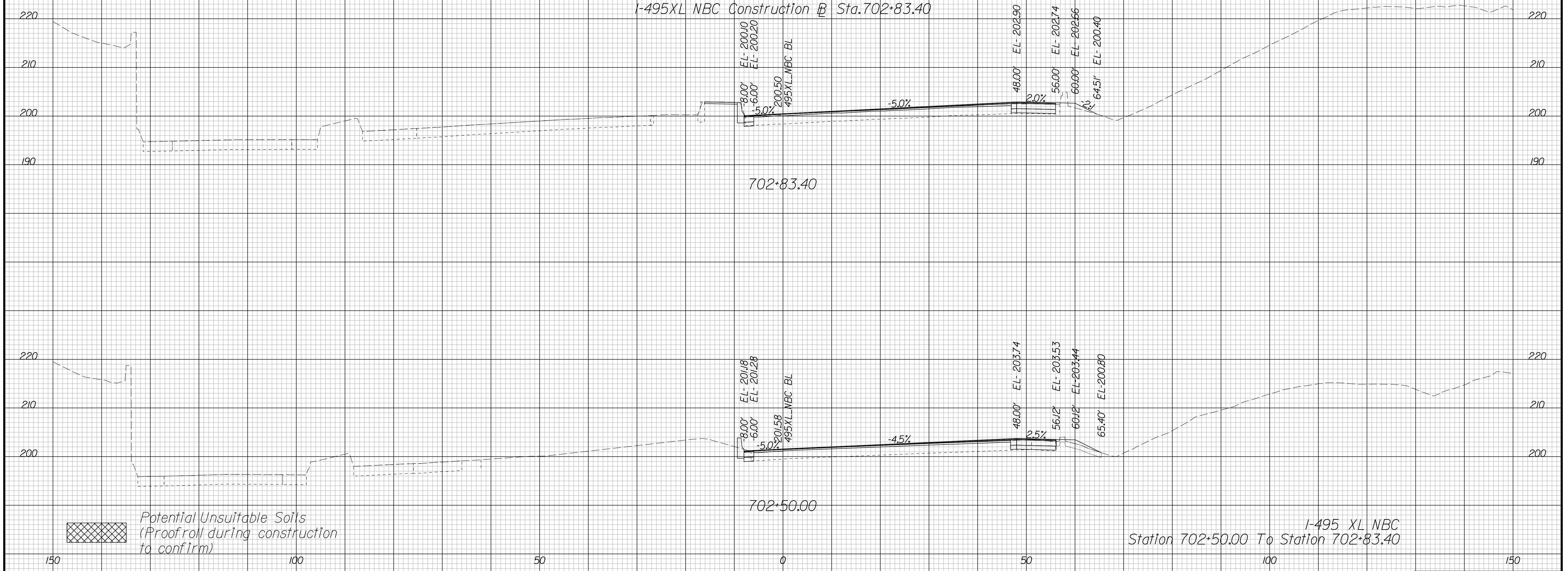
DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT

REVISED	STATE	ROUTE	STATE	PROJECT	SHEET NO.
	VA.	495		0495-029-419	X66 AREA 4

Cross Section Labels Are Pertinent Only To The Roadway Associated To The Alignment In Focus. For Labels On Other Roadway See The Appropriate Cross Section Sheet.

End Project: 0495-029-419, RW-201
I-495XL NBC Construction @ Sta. 706+71.98

End Construction: 0495-029-419, PE-101, C-501
I-495XL NBC Construction @ Sta. 702+83.40



I-495 XL NBC
Station 702+50.00 To Station 702+83.40

PROJECT	SHEET NO.
0600-060-101	X66

APPROVED FOR CONSTRUCTION

PROJECT MANAGER VDOT - Bimal Saha PE (703) 259-2362
SURVEYED BY DATE BDA - Nicholas Kougioulis LS (703) 334-0837, 12/2021
DESIGN BY BDA - Darrell Eischer BE (703) 334-0823, Daxbery - Ron Jakominich PE (703) 849-0651
SUBSURFACE UTILITY BY DATE Accumark - Michael Taylor LS (703) 635-3060, 12/2021

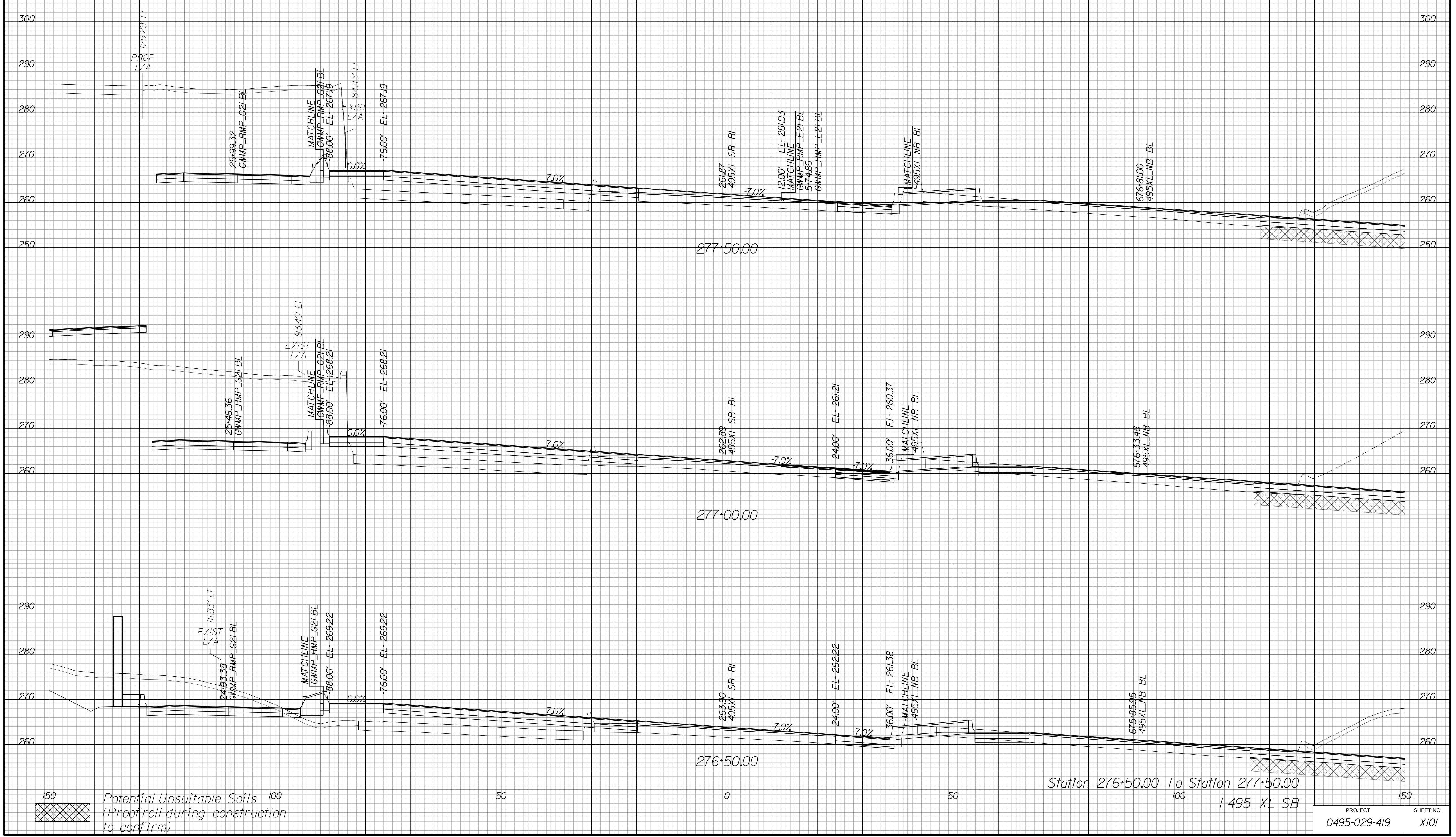
CROSS SECTIONS

SCALE 1 IN. = 10 FT

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

REVISED	STATE	ROUTE	STATE	PROJECT	SHEET NO.
	VA.	495		0495-029-419	X101 AREA 4

Cross Section Labels Are Pertinent Only To The Roadway Associated To The Alignment In Focus. For Labels On Other Roadway See The Appropriate Cross Section Sheet.



APPROVED FOR CONSTRUCTION

PROJECT MANAGER VDOT - Bimbal Stab PE (703) 259-2362
SURVEYED BY DATE BDA - Nicholas Kougoulis LS (703) 334-0837, 12/2021
DESIGN BY BDA - Darell Eischer BE (703) 334-0823, Dexbery - Ron Jakominich PE (703) 849-0651
SUBSURFACE UTILITY BY DATE Accurmark - Michael Taylor LS (703) 635-3060, 12/2021

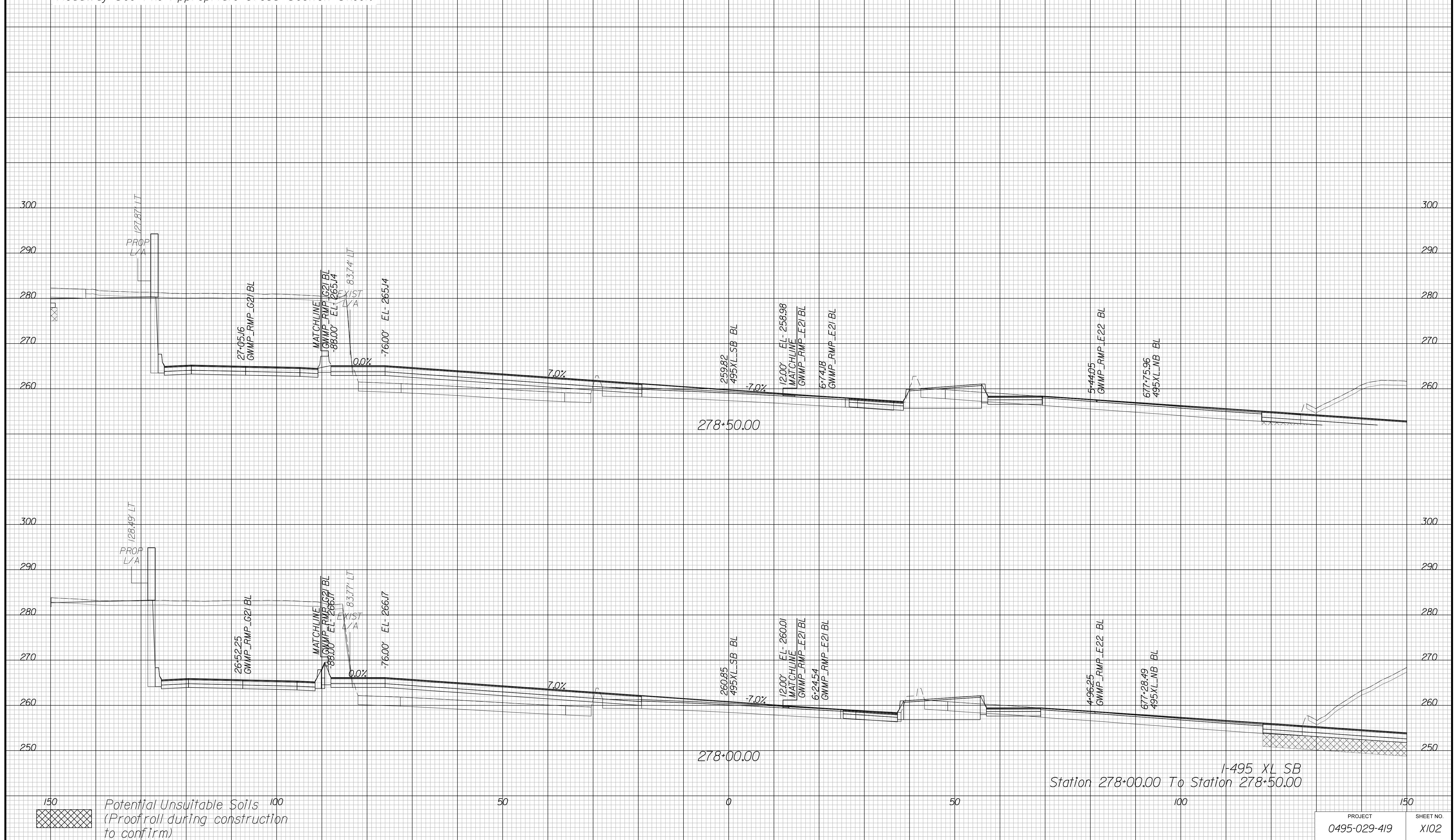
CROSS SECTIONS

SCALE 1 IN. = 10 FT

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

REVISED	STATE	ROUTE	STATE PROJECT	SHEET NO.
	VA.	495	0495-029-419	X102 AREA 4

Cross Section Labels Are Pertinent Only To The Roadway Associated To The Alignment In Focus. For Labels On Other Roadway See The Appropriate Cross Section Sheet.



APPROVED FOR CONSTRUCTION

PROJECT MANAGER VDOT - Bipal Sab PE (703) 259-2362
SURVEYED BY DATE BDA - Nicholas Kougoulis LS (703) 334-0837, 12/2021
DESIGN BY BDA - Darell Eischer BE (703) 334-0823, Dexbery - Ron Jakominich PE (703) 849-0651
SUBSURFACE UTILITY BY DATE Accurmark - Michael Taylor LS (703) 635-3060, 12/2021

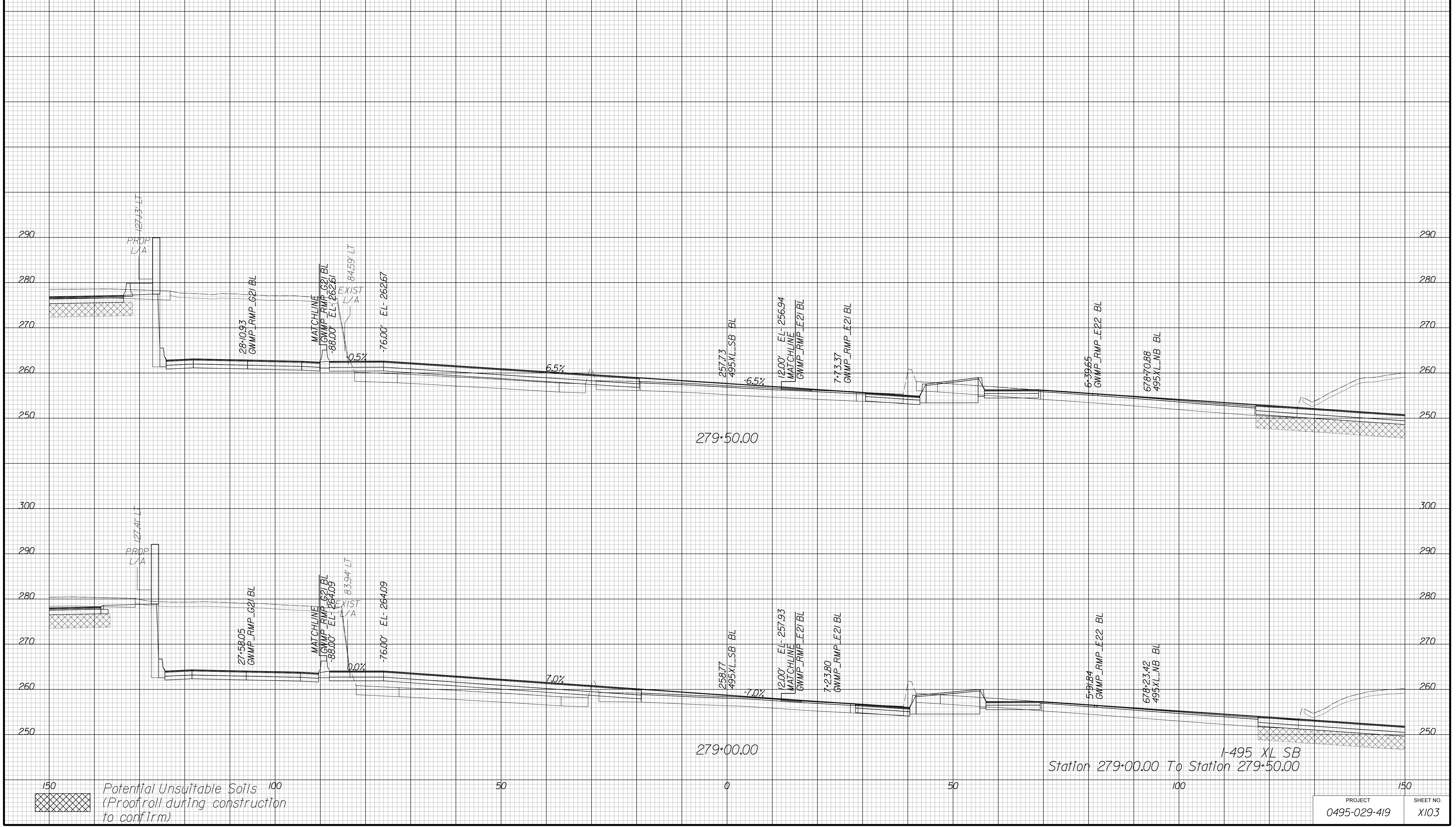
CROSS SECTIONS

SCALE 1 IN. = 10 FT

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

REVISED	STATE	ROUTE	STATE	PROJECT	SHEET NO.
	VA.	495		0495-029-419	X103 AREA 4

Cross Section Labels Are Pertinent Only To The Roadway Associated To The Alignment In Focus. For Labels On Other Roadway See The Appropriate Cross Section Sheet.



APPROVED FOR CONSTRUCTION

PROJECT MANAGER VDOT - Bimbal Stab PE (703) 259-2362
SURVEYED BY DATE BDA - Nicholas Kougoulis LS (703) 334-0837, 12/2021
DESIGN BY BDA - Darell Eischer BE (703) 334-0823, Dexbery - Ron Jakominich PE (703) 849-0651
SUBSURFACE UTILITY BY DATE Accurmark - Michael Taylor LS (703) 635-3060, 12/2021

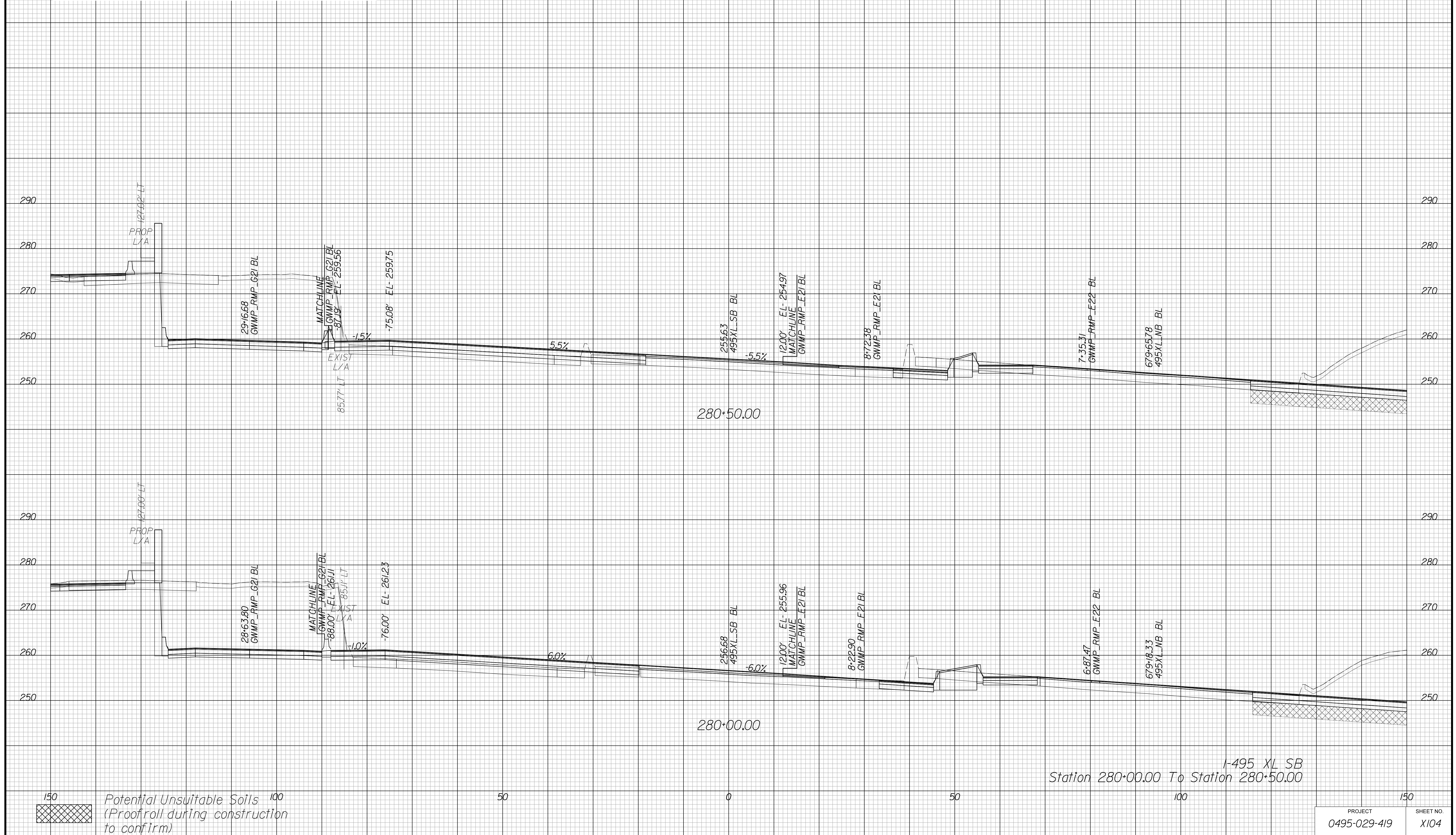
CROSS SECTIONS

SCALE 1 IN. = 10 FT

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

REVISED	STATE	ROUTE	STATE	PROJECT	SHEET NO.
	VA.	495		0495-029-419	X104 AREA 4

Cross Section Labels Are Pertinent Only To The Roadway Associated To The Alignment In Focus. For Labels On Other Roadway See The Appropriate Cross Section Sheet.



APPROVED FOR CONSTRUCTION

PROJECT MANAGER VDOT - Bipal Stab PE (703) 259-2362
SURVEYED BY DATE BDA - Nicholas Kougoulis LS (703) 334-0837, 12/2021
DESIGN BY BDA - Darrell Eischer BE (703) 334-0823, Dexberry - Ron Jakominich PE (703) 849-0651
SUBSURFACE UTILITY BY DATE Accurmark - Michael Taylor LS (703) 635-3060, 12/2021

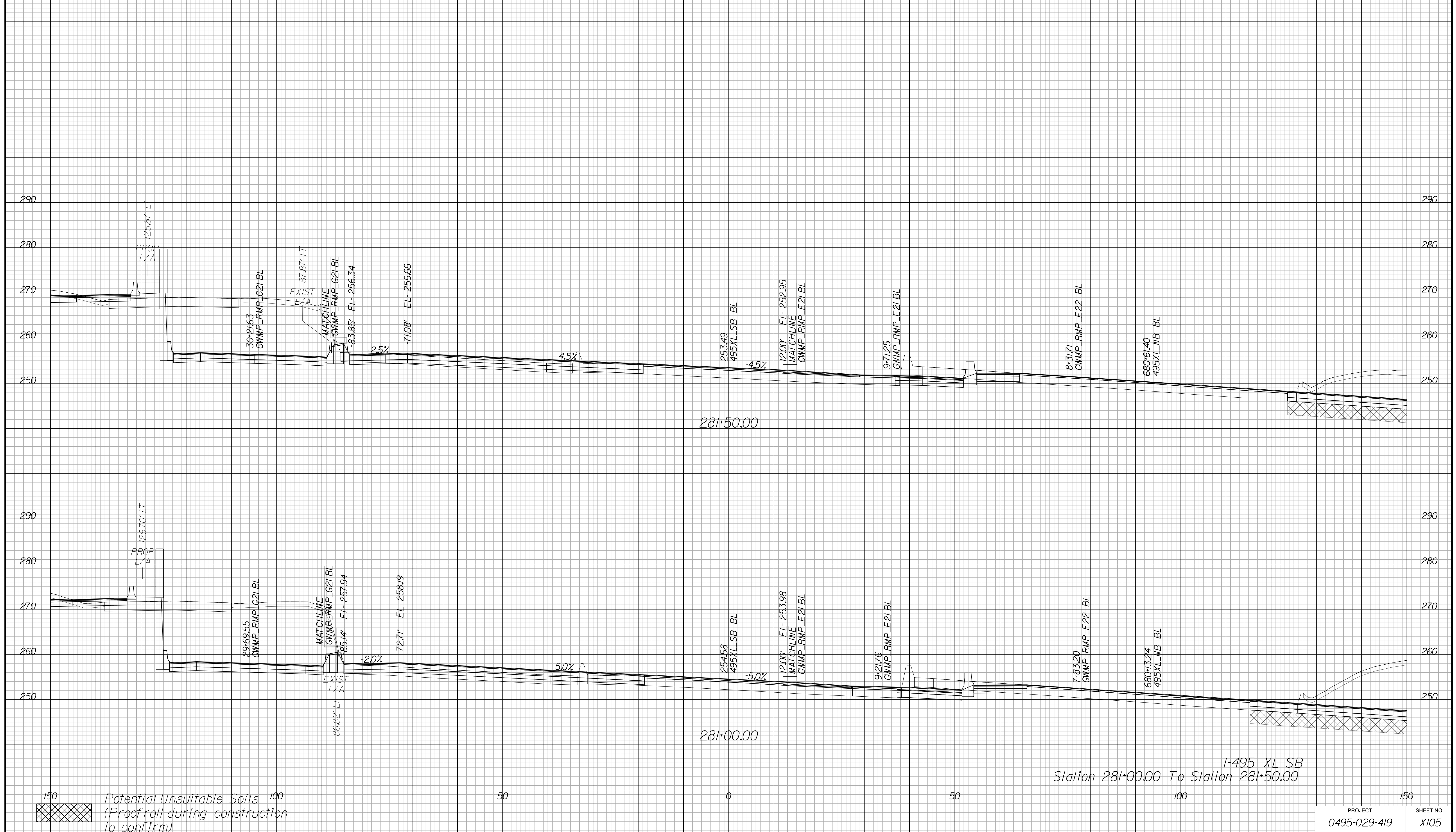
CROSS SECTIONS

SCALE 1 IN. = 10 FT

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

REVISED	STATE	ROUTE	STATE	PROJECT	SHEET NO.
	VA.	495		0495-029-419	X105 AREA 4

Cross Section Labels Are Pertinent Only To The Roadway Associated To The Alignment In Focus. For Labels On Other Roadway See The Appropriate Cross Section Sheet.



I-495 XL SB
Station 281+00.00 To Station 281+50.00

150
Potential Unsuitable Soils
(Proofroll during construction to confirm)
100
50
0
50
100
150

PROJECT	SHEET NO.
0495-029-419	X105

APPROVED FOR CONSTRUCTION

PROJECT MANAGER VDOT - Bipal Stab PE (703) 259-2362
SURVEYED BY DATE BDA - Nicholas Kougoulis LS (703) 334-0837, 12/2021
DESIGN BY BDA - Darell Elischer BE (703) 334-0823, Dawbercy - Ron Jakominich PE (703) 849-0651
SUBSURFACE UTILITY BY DATE Accurmark - Mitchell Taylor LS (703) 635-3060, 12/2021

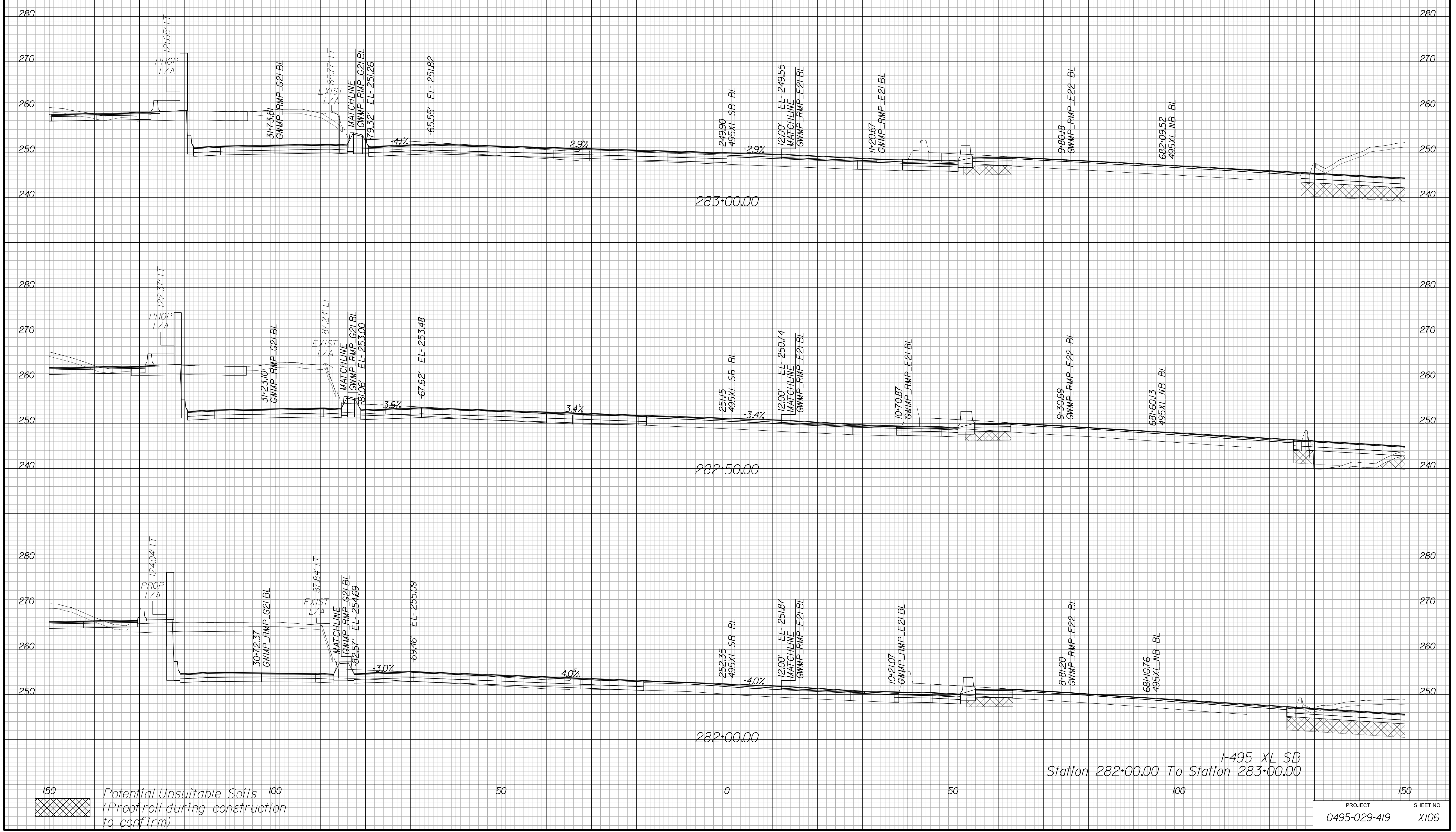
CROSS SECTIONS

SCALE 1 IN. = 10 FT

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

REVISED	STATE	ROUTE	STATE	PROJECT	SHEET NO.
	VA.	495		0495-029-419	X106 AREA 4

Cross Section Labels Are Pertinent Only To The Roadway Associated To The Alignment In Focus. For Labels On Other Roadway See The Appropriate Cross Section Sheet.



I-495 XL SB
Station 282+00.00 To Station 283+00.00

150
Potential Unsuitable Soils (Proofroll during construction to confirm)
100
50
0
50
100
150

PROJECT	SHEET NO.
0495-029-419	X106

APPROVED FOR CONSTRUCTION

PROJECT MANAGER VDOT - Bimal Saha PE (703) 259-2362
SURVEYED BY DATE BDA - Nicholas Kougioulis LS (703) 334-0837, 12/2021
DESIGN BY BDA - Darrell Eischer BE (703) 334-0823, Dexberry - Ron Jakominich PE (703) 849-0651
SUBSURFACE UTILITY BY DATE Accurmark - Michael Taylor LS (703) 635-3060, 12/2021

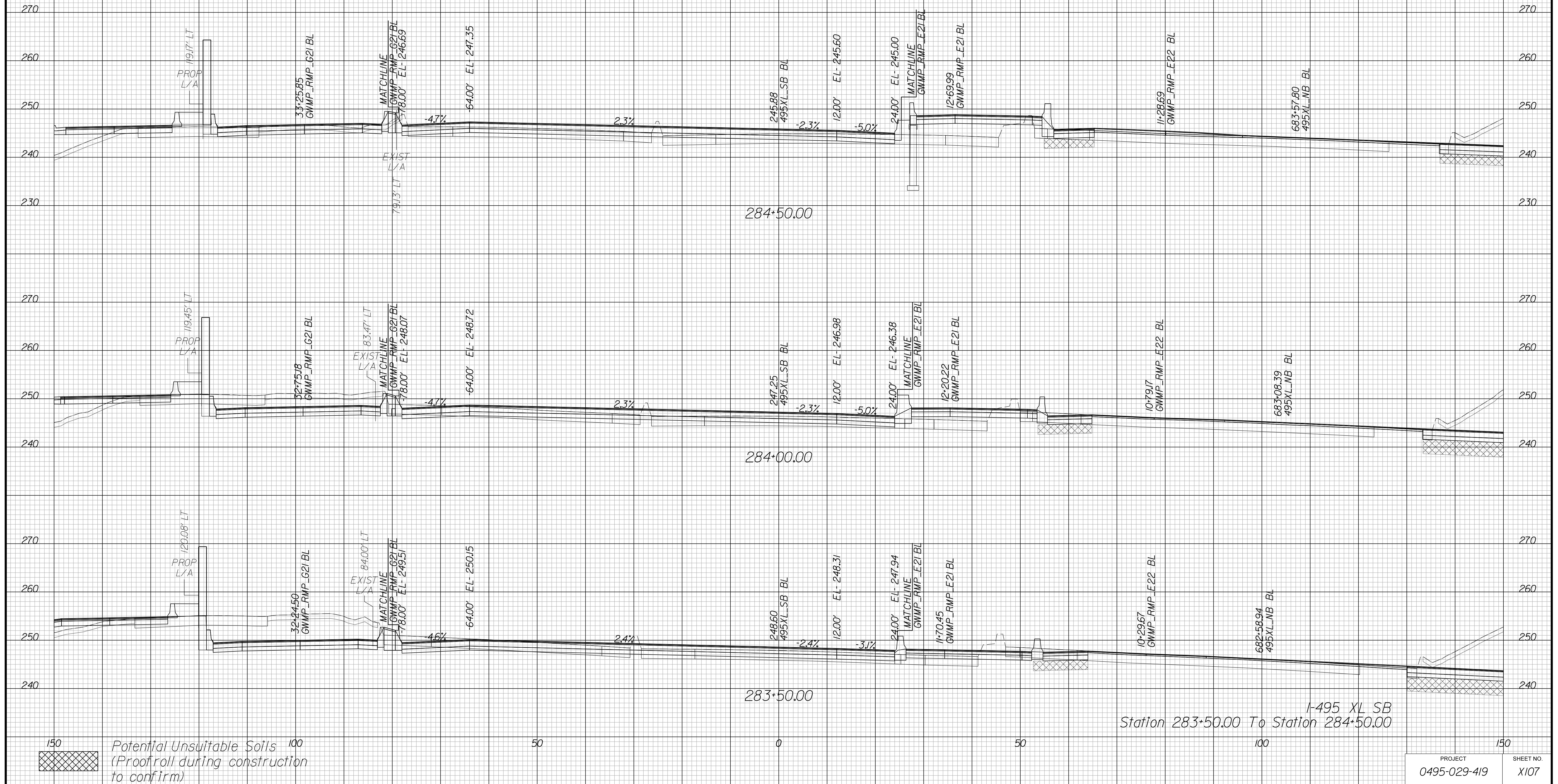
CROSS SECTIONS

SCALE 1 IN. = 10 FT

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

REVIS	STATE	ROUTE	STATE	PROJECT	SHEET NO.
	VA.	495		0495-029-419	X107 AREA 4

Cross Section Labels Are Pertinent Only To The Roadway Associated To The Alignment In Focus. For Labels On Other Roadway See The Appropriate Cross Section Sheet.



APPROVED FOR CONSTRUCTION

PROJECT MANAGER VDOT - Bimal Sab PE (703) 259-2362
SURVEYED BY DATE BDA - Nicholas Kougioulis LS (703) 334-0837, 12/2021
DESIGN BY BDA - Darrell Eischer BE (703) 334-0823, Dexberry - Ron Jakominich PE (703) 849-0651
SUBSURFACE UTILITY BY DATE Accurmark - Michael Taylor LS (703) 635-3060, 12/2021

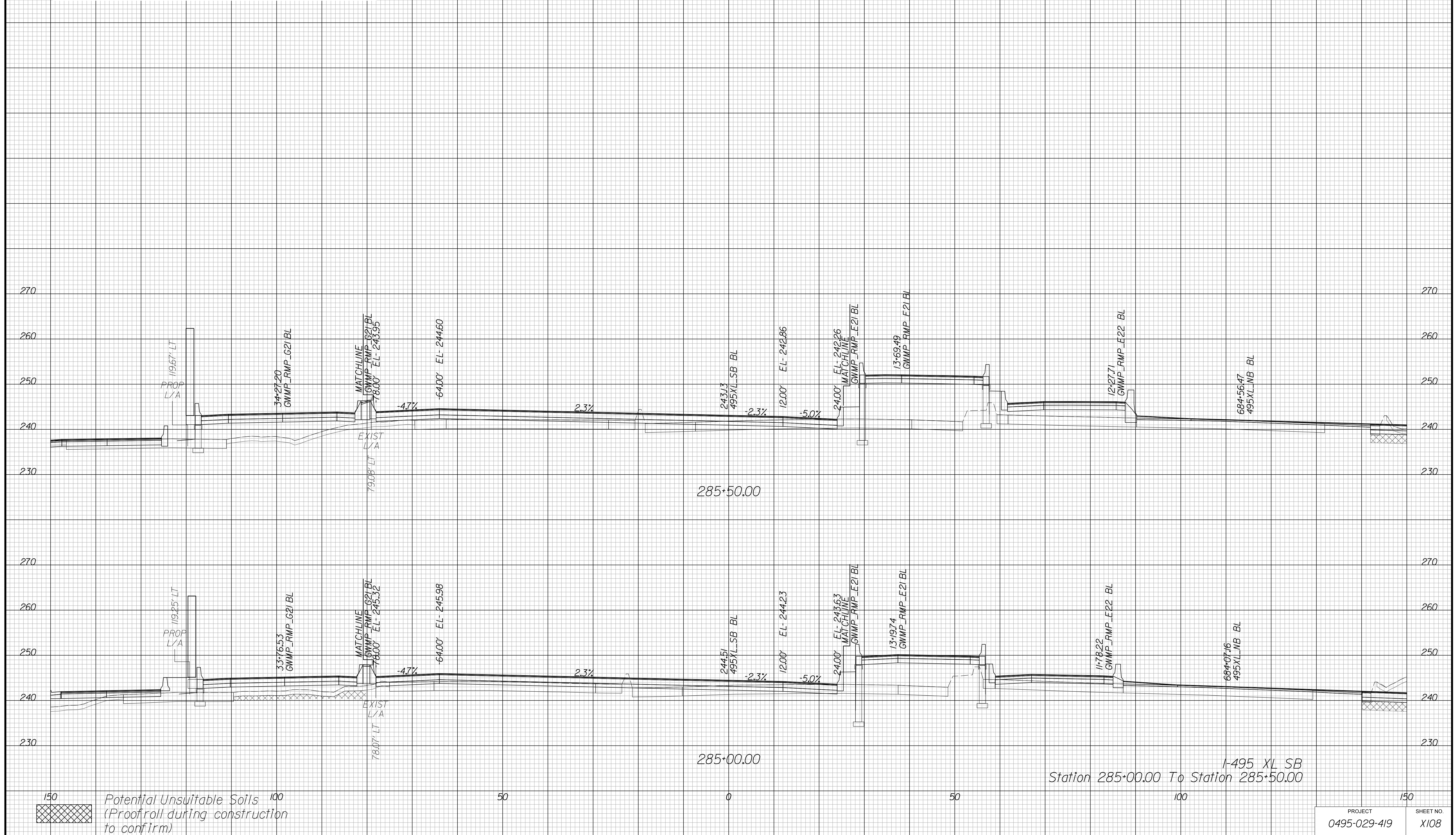
CROSS SECTIONS

SCALE 1 IN. = 10 FT

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

REVISED	STATE	ROUTE	STATE PROJECT	SHEET NO.
	VA.	495	0495-029-419	X108 AREA 4

Cross Section Labels Are Pertinent Only To The Roadway Associated To The Alignment In Focus. For Labels On Other Roadway See The Appropriate Cross Section Sheet.



PROJECT	SHEET NO.
0495-029-419	X108

APPROVED FOR CONSTRUCTION

PROJECT MANAGER VDOT - Bimbal Stab PE (703) 259-2362
SURVEYED BY DATE BDA - Nicholas Kougioulis LS (703) 334-0837, 12/2021
DESIGN BY BDA - Darrell Eischer BE (703) 334-0823, Dexberry - Ron Jakominich PE (703) 849-0651
SUBSURFACE UTILITY BY DATE Accurmark - Michael Taylor LS (703) 635-3060, 12/2021

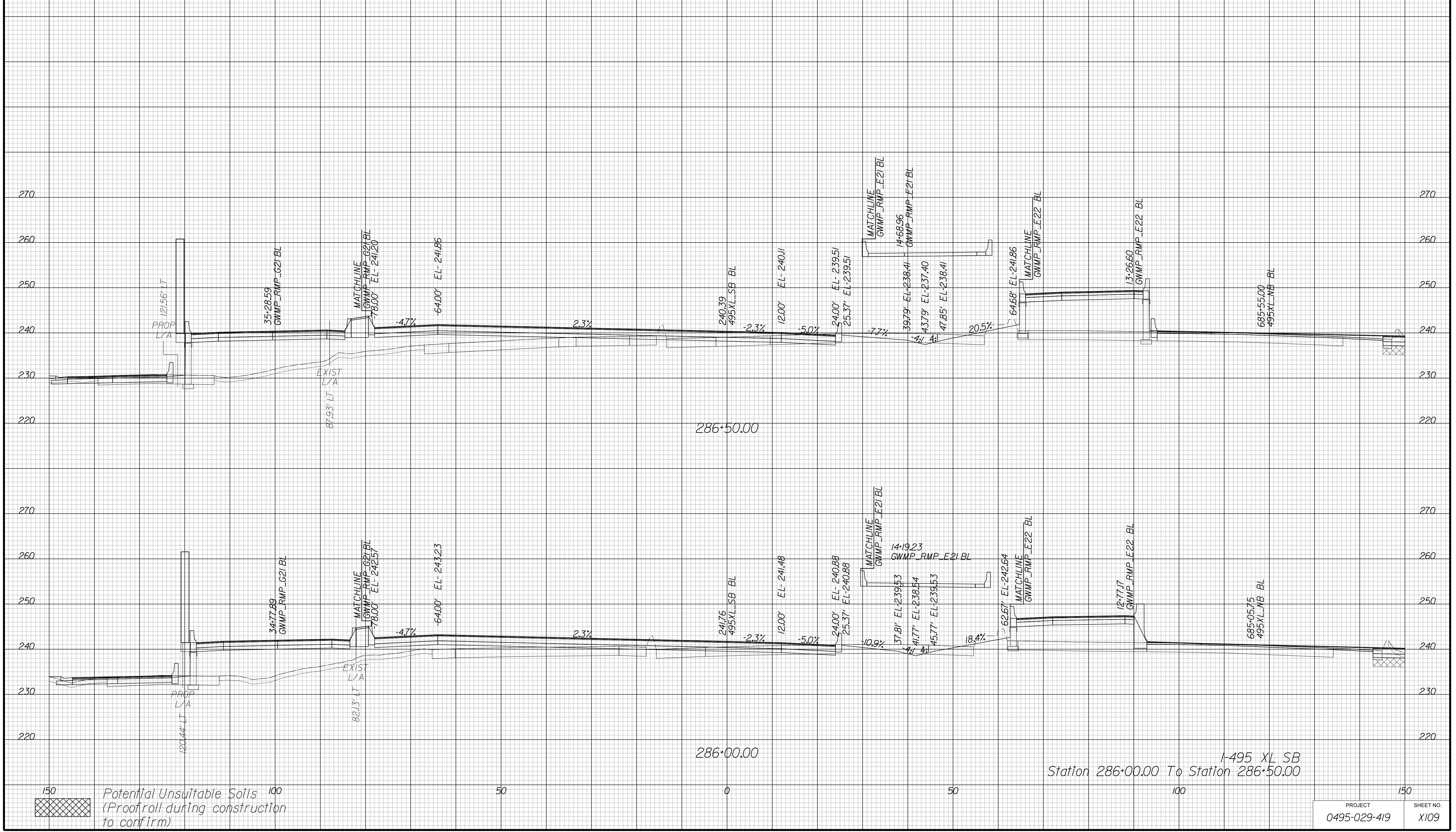
CROSS SECTIONS

SCALE 1 IN. = 10 FT

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

REVISION	STATE	ROUTE	STATE PROJECT	SHEET NO.
	VA.	495	0495-029-419	X109 AREA 4

Cross Section Labels Are Pertinent Only To The Roadway Associated To The Alignment In Focus. For Labels On Other Roadway See The Appropriate Cross Section Sheet.



APPROVED FOR CONSTRUCTION

PROJECT MANAGER VDOT - Bipal Stab PE (703) 259-2362
SURVEYED BY DATE BDA - Nicholas Kougoulis LS (703) 334-0837, 12/2021
DESIGN BY BDA - Darrell Eischer BE (703) 334-0823, Dexberry - Ron Jakominich PE (703) 849-0651
SUBSURFACE UTILITY BY DATE Accurmark - Michael Taylor LS (703) 635-3060, 12/2021

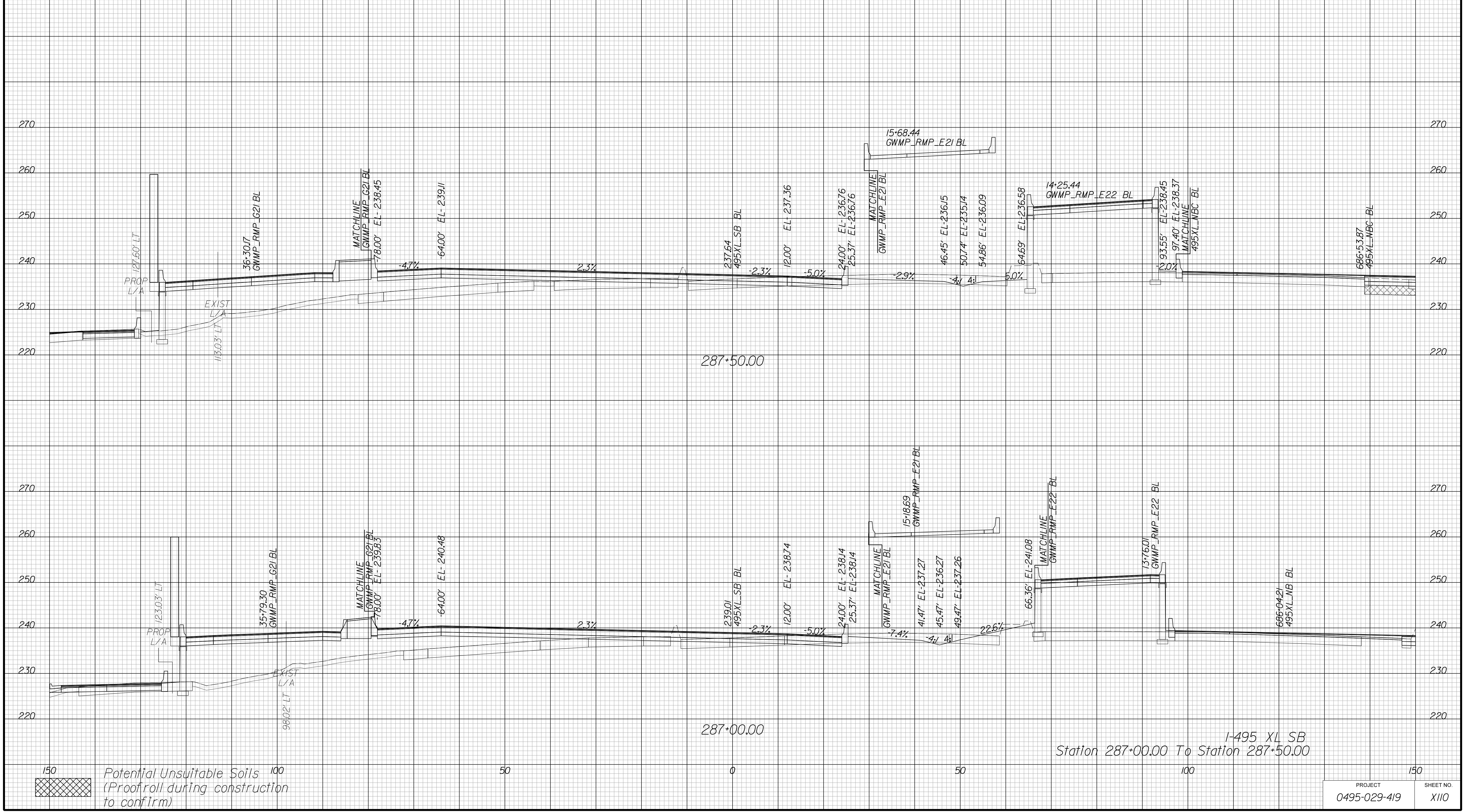
CROSS SECTIONS

SCALE 1 IN. = 10 FT

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

REVISED	STATE	ROUTE	STATE PROJECT	SHEET NO.
	VA.	495	0495-029-419	X110 AREA 4

Cross Section Labels Are Pertinent Only To The Roadway Associated To The Alignment In Focus. For Labels On Other Roadway See The Appropriate Cross Section Sheet.



APPROVED FOR CONSTRUCTION

PROJECT MANAGER VDOT - Bimbal Stab PE (703) 259-2362
SURVEYED BY, DATE BDA - Nicholas Kougoulis LS (703) 334-0837, 12/2021
DESIGN BY BDA - Darell Elischer BE (703) 334-0823, Dexbery - Ron Jakominich PE (703) 849-0651
SUBSURFACE UTILITY BY, DATE Accumark - Michael Taylor LS (703) 635-3060, 12/2021

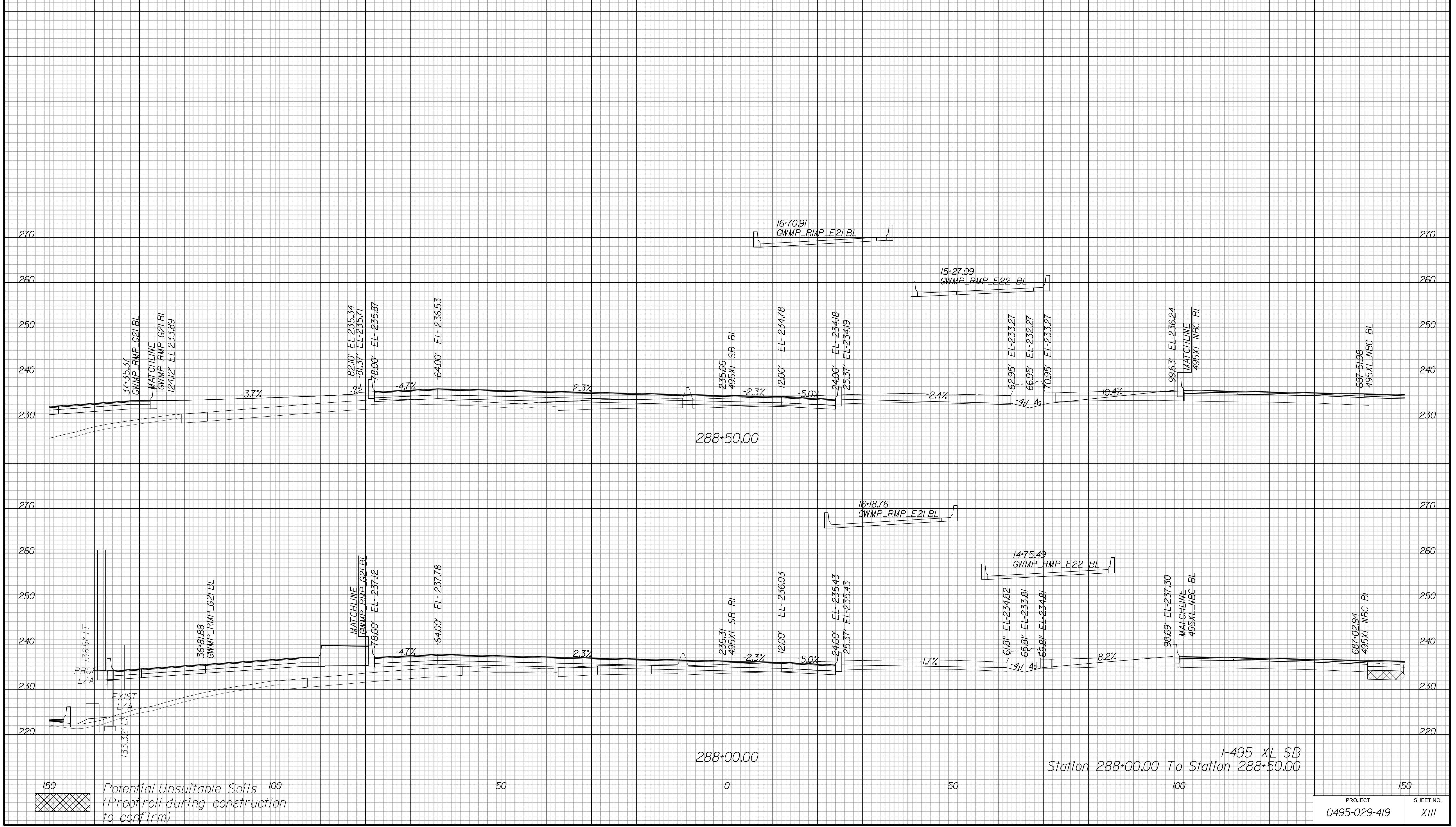
CROSS SECTIONS

SCALE 1 IN. = 10 FT

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

REVISED	STATE	ROUTE	STATE	PROJECT	SHEET NO.
	VA.	495		0495-029-419	XIII AREA 4

Cross Section Labels Are Pertinent Only To The Roadway Associated To The Alignment In Focus. For Labels On Other Roadway See The Appropriate Cross Section Sheet.



APPROVED FOR CONSTRUCTION

PROJECT MANAGER VDOT - Bipal Stab PE (703) 259-2362
SURVEYED BY, DATE BDA - Nicholas Kougoulis LS (703) 334-0837, 12/2021
DESIGN BY BDA - Darrell Eischer BE (703) 334-0823, Dexberry - Ron Jakominich PE (703) 849-0651
SUBSURFACE UTILITY BY, DATE Accurmark - Michael Taylor LS (703) 635-3060, 12/2021

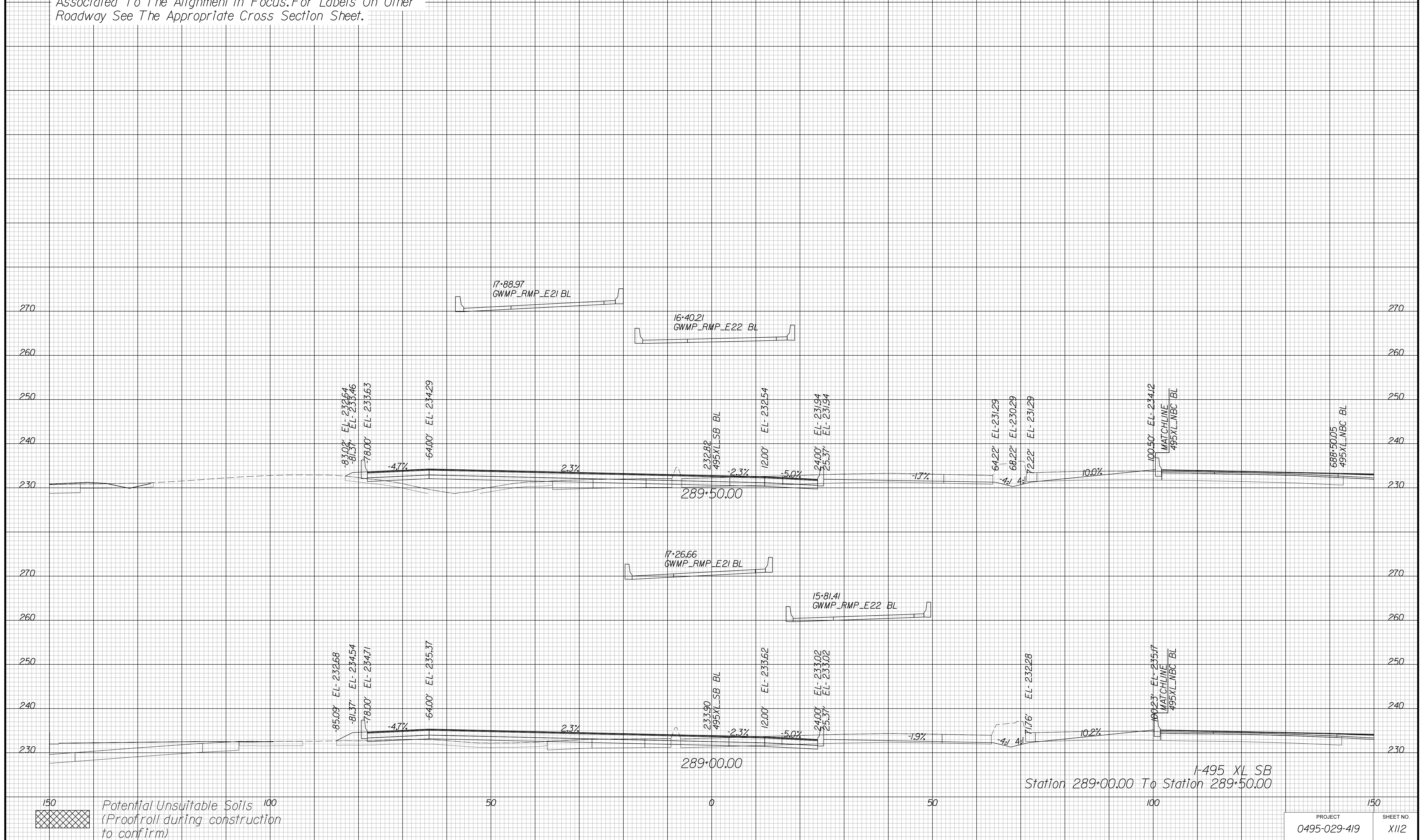
CROSS SECTIONS

SCALE 1 IN. = 10 FT

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

REVISED	STATE	ROUTE	STATE	PROJECT	SHEET NO.
	VA.	495		0495-029-419	X112 AREA 4

Cross Section Labels Are Pertinent Only To The Roadway Associated To The Alignment In Focus. For Labels On Other Roadway See The Appropriate Cross Section Sheet.



I-495 XL SB
Station 289+00.00 To Station 289+50.00

150
Potential Unsuitable Soils
(Proofroll during construction to confirm)
100

PROJECT	SHEET NO.
0495-029-419	X112

APPROVED FOR CONSTRUCTION

PROJECT MANAGER VDOT - Bimbal Stab PE (703) 259-2362
SURVEYED BY, DATE BDA - Nicholas Kougoulis LS (703) 334-0837, 12/2021
DESIGN BY BDA - Darrell Elischer BE (703) 334-0823, Dawbercy - Ron Jakominich PE (703) 849-0651
SUBSURFACE UTILITY BY, DATE Accurmark - Michael Taylor LS (703) 635-3060, 12/2021

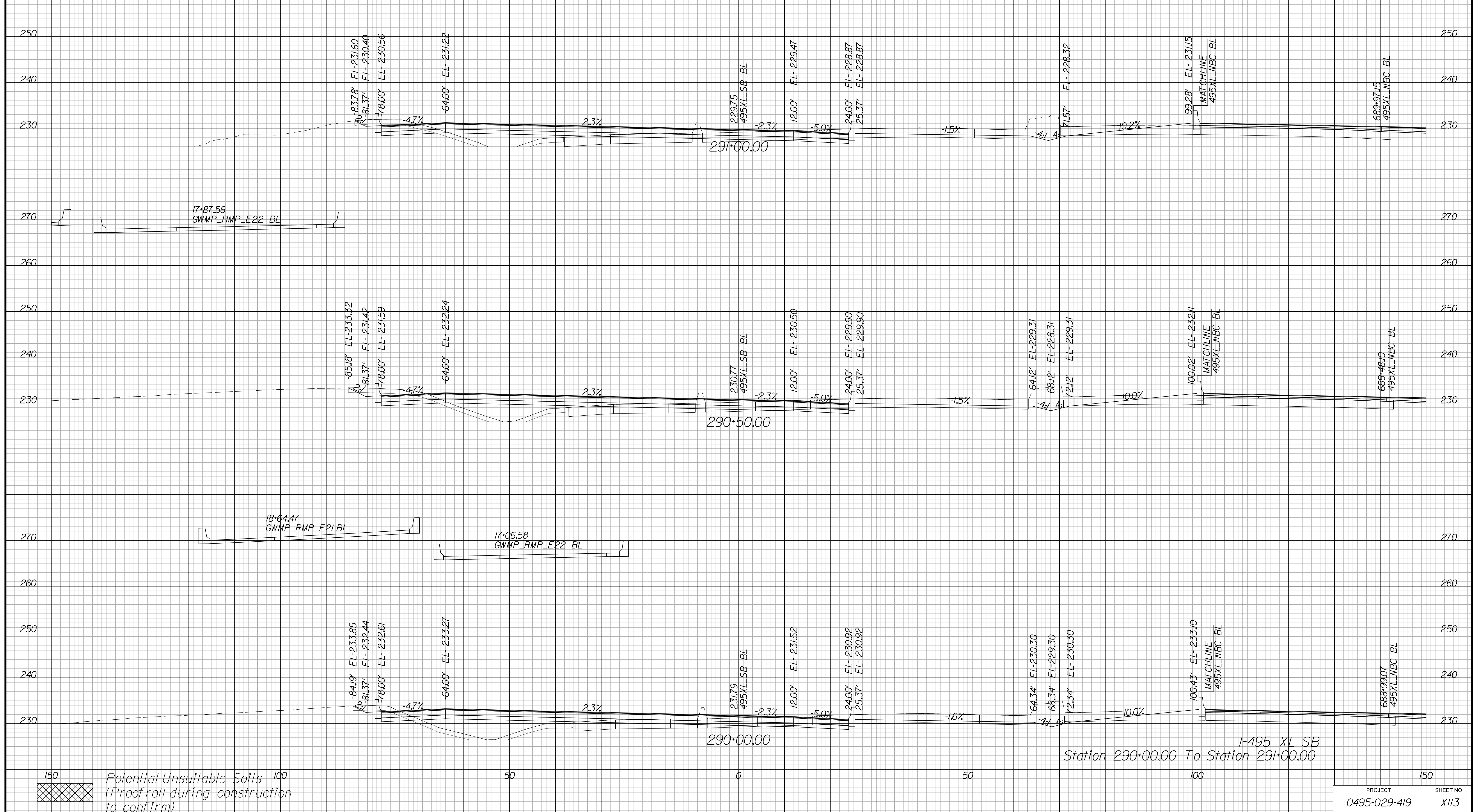
CROSS SECTIONS

SCALE 1 IN. = 10 FT

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

REVISED	STATE	ROUTE	STATE	PROJECT	SHEET NO.
	VA.	495		0495-029-419	X113 AREA 4

*Cross Section Labels Are Pertinent Only To The Roadway
Associated To The Alignment In Focus. For Labels On Other
Roadway See The Appropriate Cross Section Sheet.*



APPROVED FOR CONSTRUCTION

PROJECT MANAGER VDOT - Bimbal Stab PE (703) 259-2362
SURVEYED BY DATE BDA - Nicholas Kougoulis LS (703) 334-0837, 12/2021
DESIGN BY BDA - Darrell Elischer BE (703) 334-0823, Dexberry - Ron Jakominich PE (703) 849-0651
SUBSURFACE UTILITY BY DATE Accumar - Michael Taylor LS (703) 635-3060, 12/2021

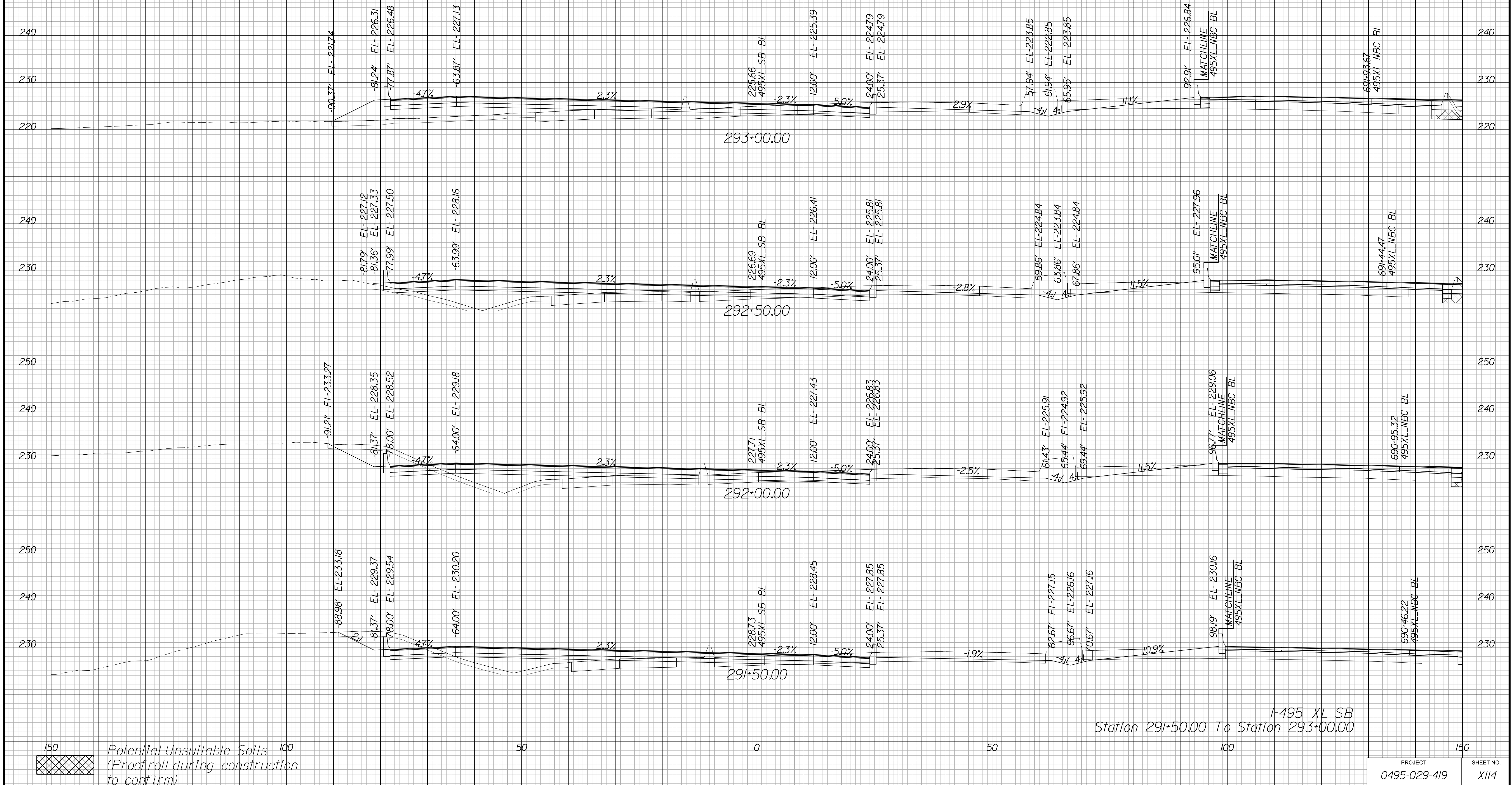
CROSS SECTIONS

SCALE 1 IN. = 10 FT

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

REVISED	STATE	ROUTE	STATE	PROJECT	SHEET NO.
	VA.	495		0495-029-419	X114 AREA 4

Cross Section Labels Are Pertinent Only To The Roadway Associated To The Alignment In Focus. For Labels On Other Roadway See The Appropriate Cross Section Sheet.



APPROVED FOR CONSTRUCTION

PROJECT MANAGER VDOT - Bimbal Stab PE (703) 259-2362
SURVEYED BY DATE BDA - Nicholas Kougioulis LS (703) 334-0837, 12/2021
DESIGN BY BDA - Darrell Eischer BE (703) 334-0823, Dawbercy - Ron Jakominich PE (703) 849-0651
SUBSURFACE UTILITY BY DATE Accurmark - Michael Taylor LS (703) 635-3060, 12/2021

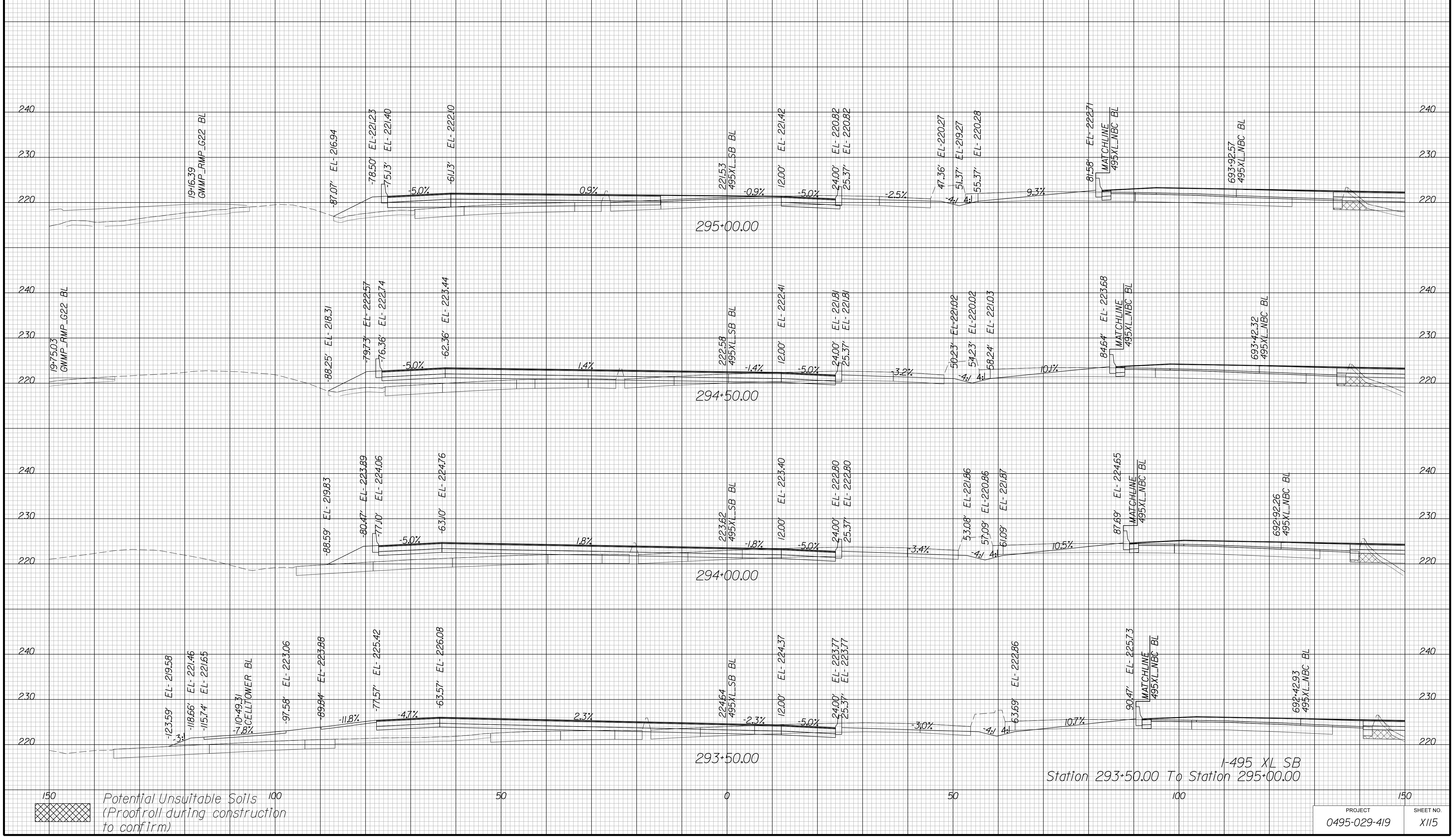
CROSS SECTIONS

SCALE 1 IN. = 10 FT

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

REVISED	STATE	ROUTE	STATE	PROJECT	SHEET NO.
	VA.	495		0495-029-419	X115 AREA 4

Cross Section Labels Are Pertinent Only To The Roadway Associated To The Alignment In Focus. For Labels On Other Roadway See The Appropriate Cross Section Sheet.



150
Potential Unsuitable Soils
(Proofroll during construction to confirm)
100
50
0
50
100
150

PROJECT	SHEET NO.
0495-029-419	X115

APPROVED FOR CONSTRUCTION

PROJECT MANAGER VDOT - Bimbal Stab PE (703) 259-2362
SURVEYED BY DATE BDA - Nicholas Kougoulis LS (703) 334-0837, 12/2021
DESIGN BY BDA - Darell Elischer BE (703) 334-0823, Dexbery - Ron Jakominich PE (703) 849-0651
SUBSURFACE UTILITY BY DATE Accurmark - Michael Taylor LS (703) 635-3060, 12/2021

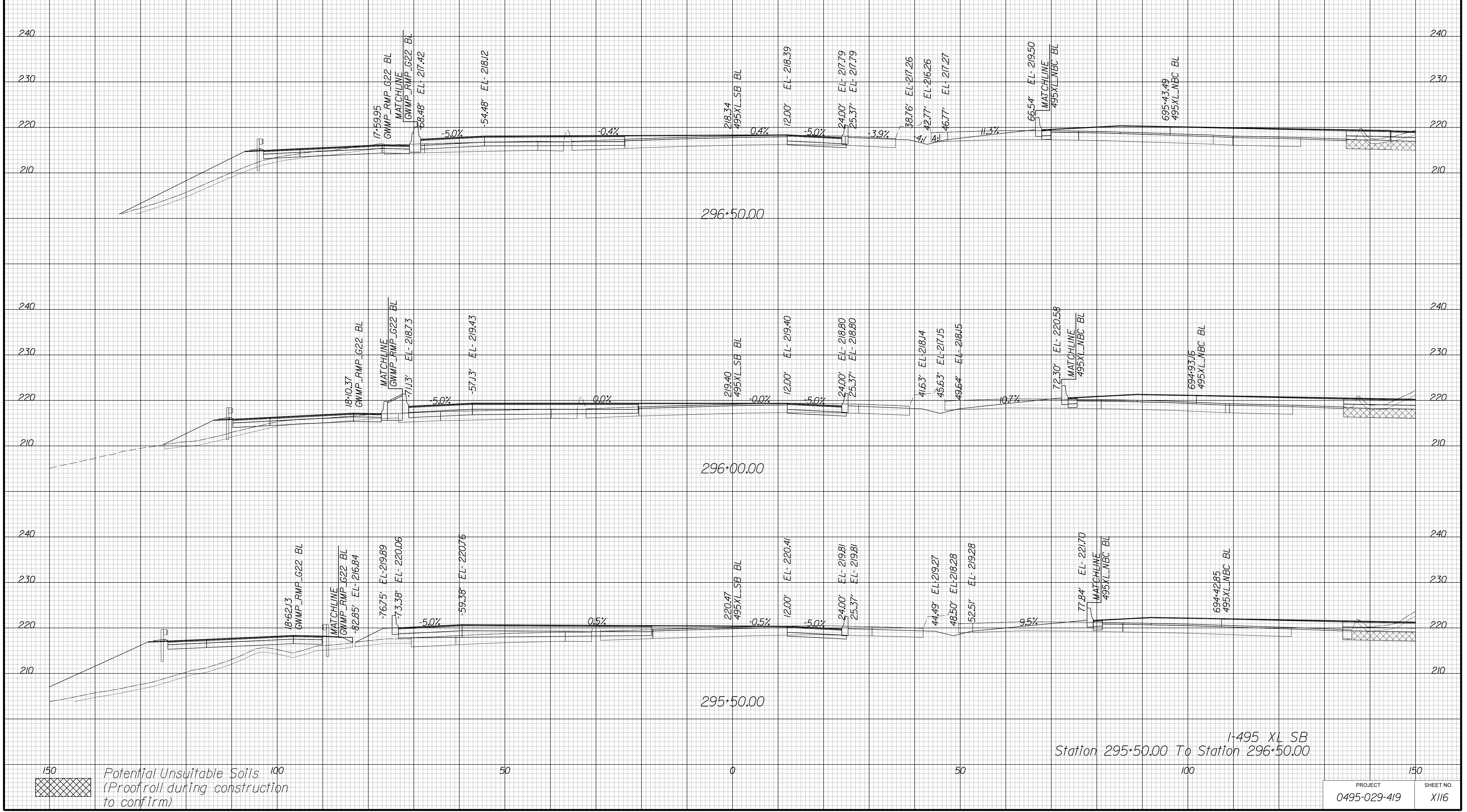
CROSS SECTIONS

SCALE 1 IN. = 10 FT

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

REVISED	STATE	ROUTE	STATE	PROJECT	SHEET NO.
	VA.	495		0495-029-419	X116 AREA 4

Cross Section Labels Are Pertinent Only To The Roadway Associated To The Alignment In Focus. For Labels On Other Roadway See The Appropriate Cross Section Sheet.



150 100
Potential Unsuitable Soils
(Proofroll during construction to confirm)

PROJECT	SHEET NO.
0495-029-419	X116

APPROVED FOR CONSTRUCTION

PROJECT MANAGER VDOT - Bimbal Stab PE (703) 259-2362
SURVEYED BY DATE BDA - Nicholas Kougoulis LS (703) 334-0837, 12/2021
DESIGN BY BDA - Darrell Elischer BE (703) 334-0823, Dexberry - Ron Jakominich PE (703) 849-0651
SUBSURFACE UTILITY BY DATE Accumar - Michael Taylor LS (703) 635-3060, 12/2021

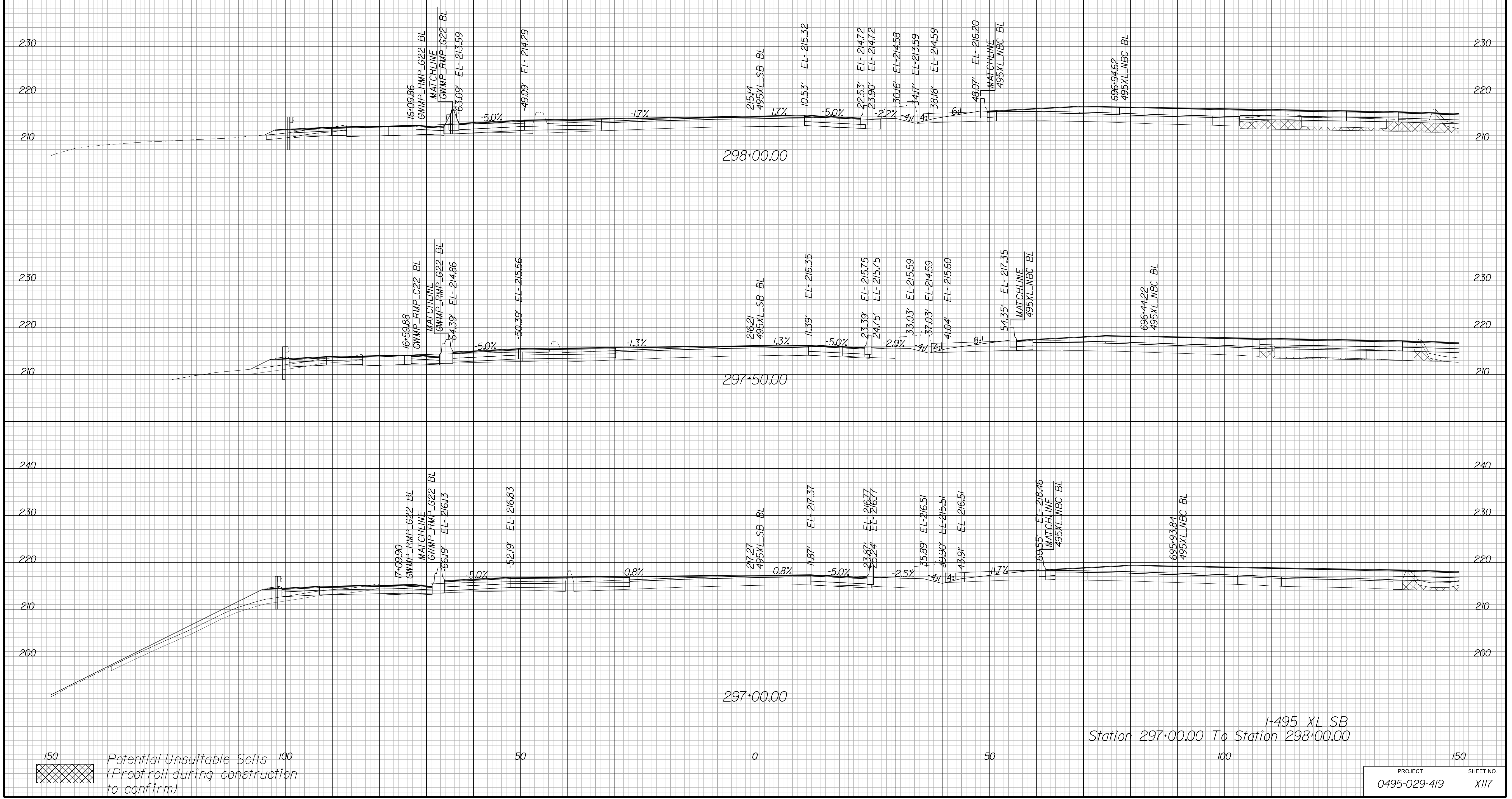
CROSS SECTIONS

SCALE 1 IN. = 10 FT

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

REVISED	STATE	ROUTE	STATE	PROJECT	SHEET NO.
	VA.	495		0495-029-419	X117 AREA 4

Cross Section Labels Are Pertinent Only To The Roadway Associated To The Alignment In Focus. For Labels On Other Roadway See The Appropriate Cross Section Sheet.



APPROVED FOR CONSTRUCTION

PROJECT MANAGER VDOT - Bimbal Stab PE (703) 259-2362
SURVEYED BY DATE BDA - Nicholas Kougoulis LS (703) 334-0837, 12/2021
DESIGN BY BDA - Darrell Eischer BE (703) 334-0823, Dawberly - Ron Jakominich PE (703) 849-0651
SUBSURFACE UTILITY BY DATE Accurmark - Michael Taylor LS (703) 635-3060, 12/2021

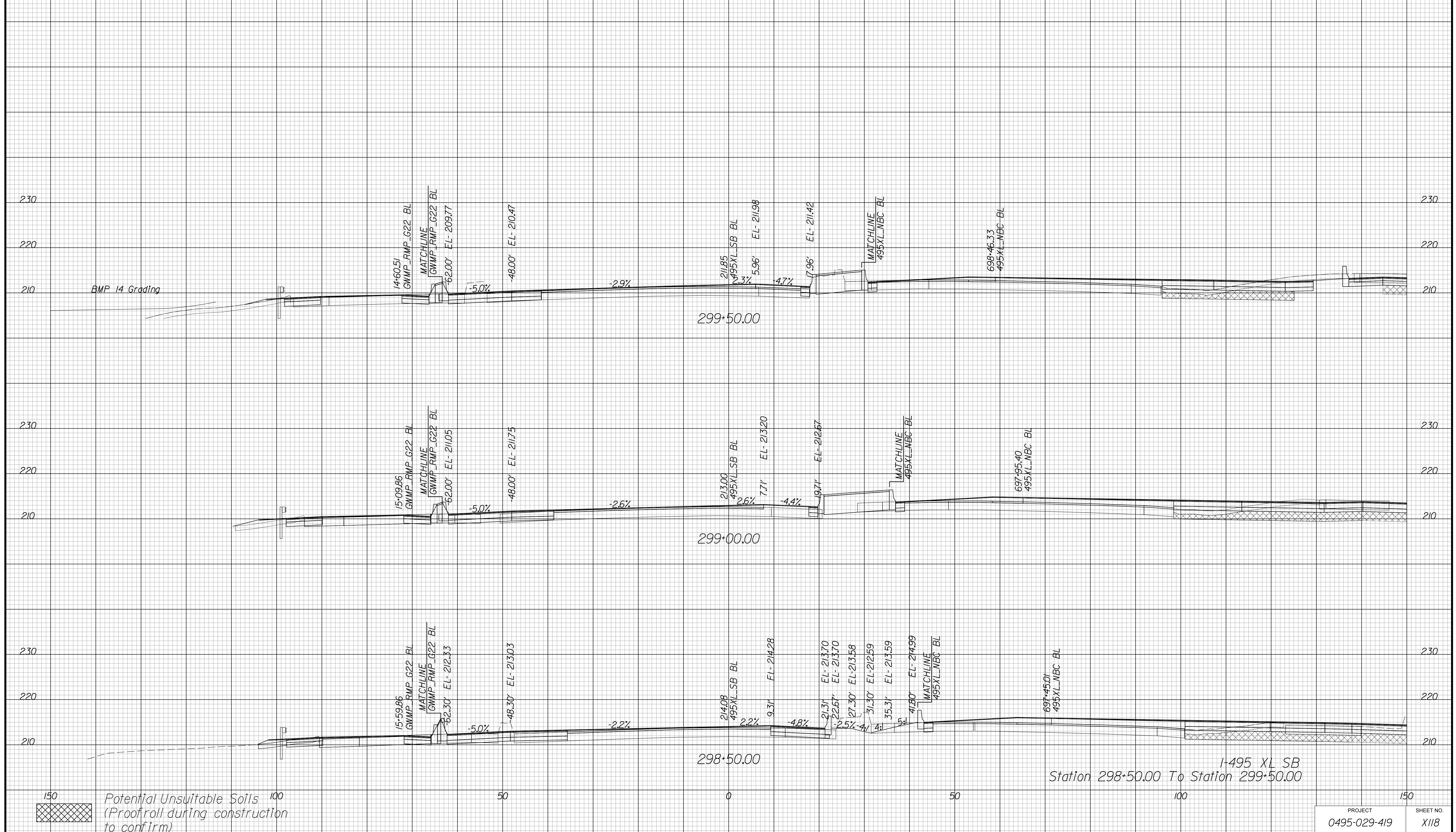
CROSS SECTIONS

SCALE 1 IN. = 10 FT

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

REVISED	STATE	ROUTE	STATE	PROJECT	SHEET NO.
	VA.	495		0495-029-419	X118 AREA 4

Cross Section Labels Are Pertinent Only To The Roadway Associated To The Alignment In Focus. For Labels On Other Roadway See The Appropriate Cross Section Sheet.



I-495 XL SB
Station 298+50.00 To Station 299+50.00

150
100
50
0
50
100
150
Potential Unsuitable Soils
(Proofroll during construction to confirm)

PROJECT	SHEET NO.
0495-029-419	X118

APPROVED FOR CONSTRUCTION

PROJECT MANAGER VDOT - Bipal Stab PE (703) 259-2362
SURVEYED BY DATE BDA - Nicholas Kougoulis LS (703) 334-0837, 12/2021
DESIGN BY BDA - Darell Elischer BE (703) 334-0823, Dawbercy - Ron Jakominich PE (703) 849-0651
SUBSURFACE UTILITY BY DATE Accurmark - Michael Taylor LS (703) 635-3060, 12/2021

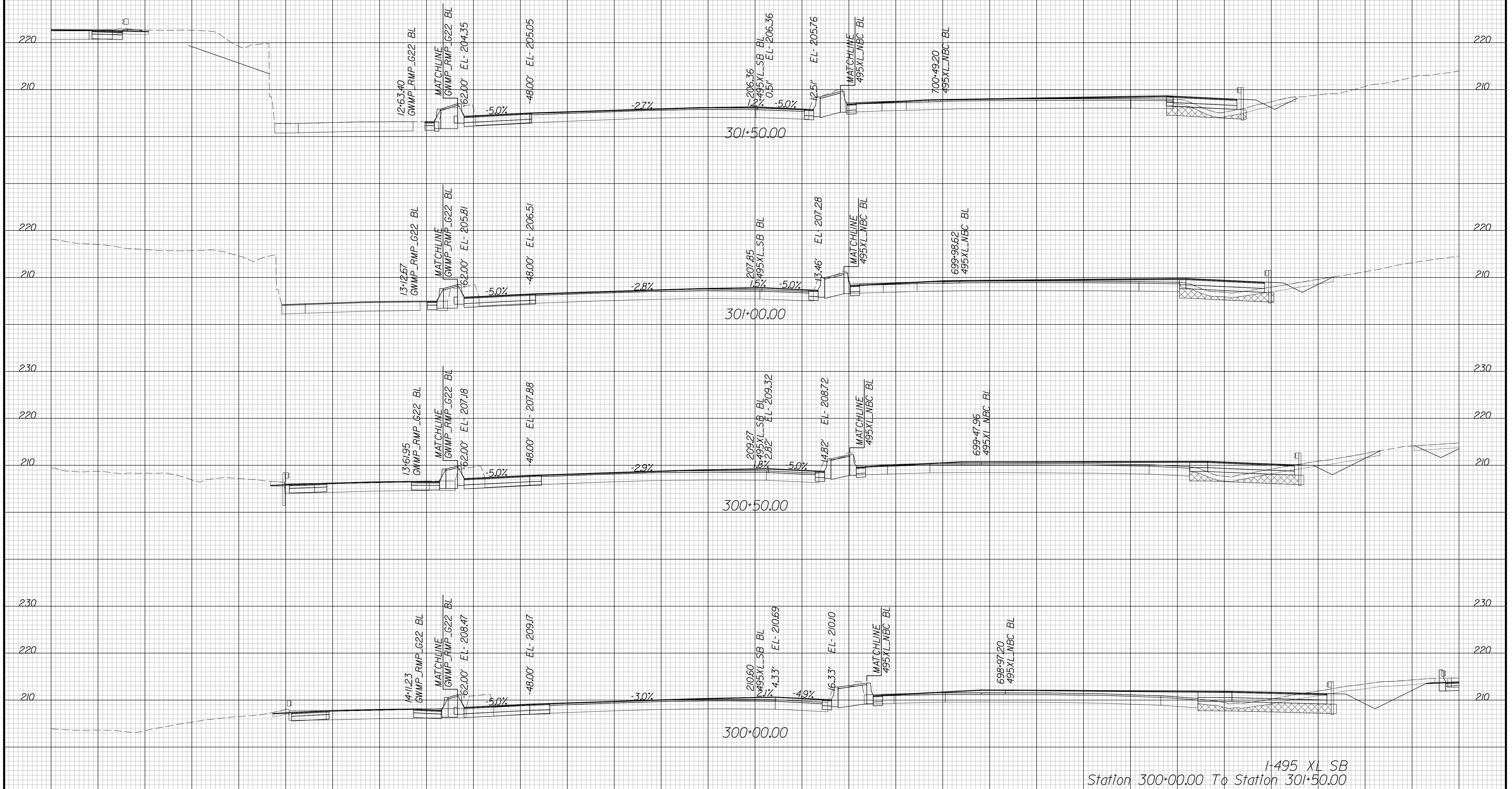
CROSS SECTIONS

SCALE 1 IN. = 10 FT

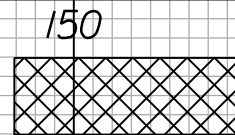
DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT

REVISED	STATE	ROUTE	STATE	PROJECT	SHEET NO.
	VA.	495		0495-029-419	X119 AREA 4

Cross Section Labels Are Pertinent Only To The Roadway Associated To The Alignment In Focus. For Labels On Other Roadway See The Appropriate Cross Section Sheet.



I-495 XL SB
Station 300+00.00 To Station 301+50.00

150
 Potential Unsuitable Soils
 (Proofroll during construction to confirm)
 100
 50 0 50 100 150

PROJECT	SHEET NO.
0495-029-419	X119

APPROVED FOR CONSTRUCTION

PROJECT MANAGER VDOT - Bipal Shah PE (703) 259-2362
SURVEYED BY DATE BDA - Nicholas Kougoulis LS (703) 334-0837, 12/2021
DESIGN BY BDA - Darrell Elischer BE (703) 334-0823, Dexbery - Ron Jakominich PE (703) 849-0651
SUBSURFACE UTILITY BY DATE Accurmark - Michael Taylor LS (703) 635-3060, 12/2021

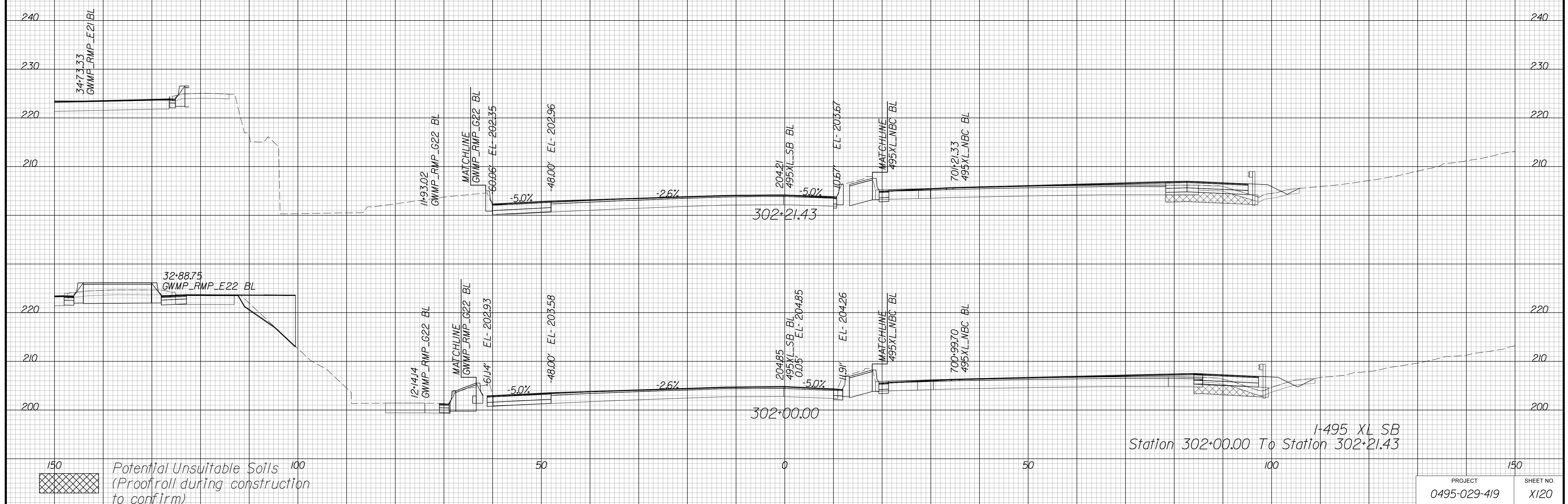
CROSS SECTIONS

SCALE 1 IN. = 10 FT

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

REVISED	STATE	ROUTE	STATE PROJECT	SHEET NO.
	VA.	495	0495-029-419	X120 AREA 4

Cross Section Labels Are Pertinent Only To The Roadway Associated To The Alignment In Focus. For Labels On Other Roadway See The Appropriate Cross Section Sheet.



APPROVED FOR CONSTRUCTION

PROJECT	SHEET NO.
0495-029-419	X120

PROJECT MANAGER VDOT - Bimal Sab PE (703) 259-2362
SURVEYED BY DATE BDA - Nicholas Kougoulis LS (703) 334-0837, 12/2021
DESIGN BY BDA - Darrell Eischer BE (703) 334-0823, Dawbergy - Ron Jakominich PE (703) 849-0651
SUBSURFACE UTILITY BY DATE Accurmark - Michael Taylor LS (703) 635-3060, 12/2021

CROSS SECTIONS

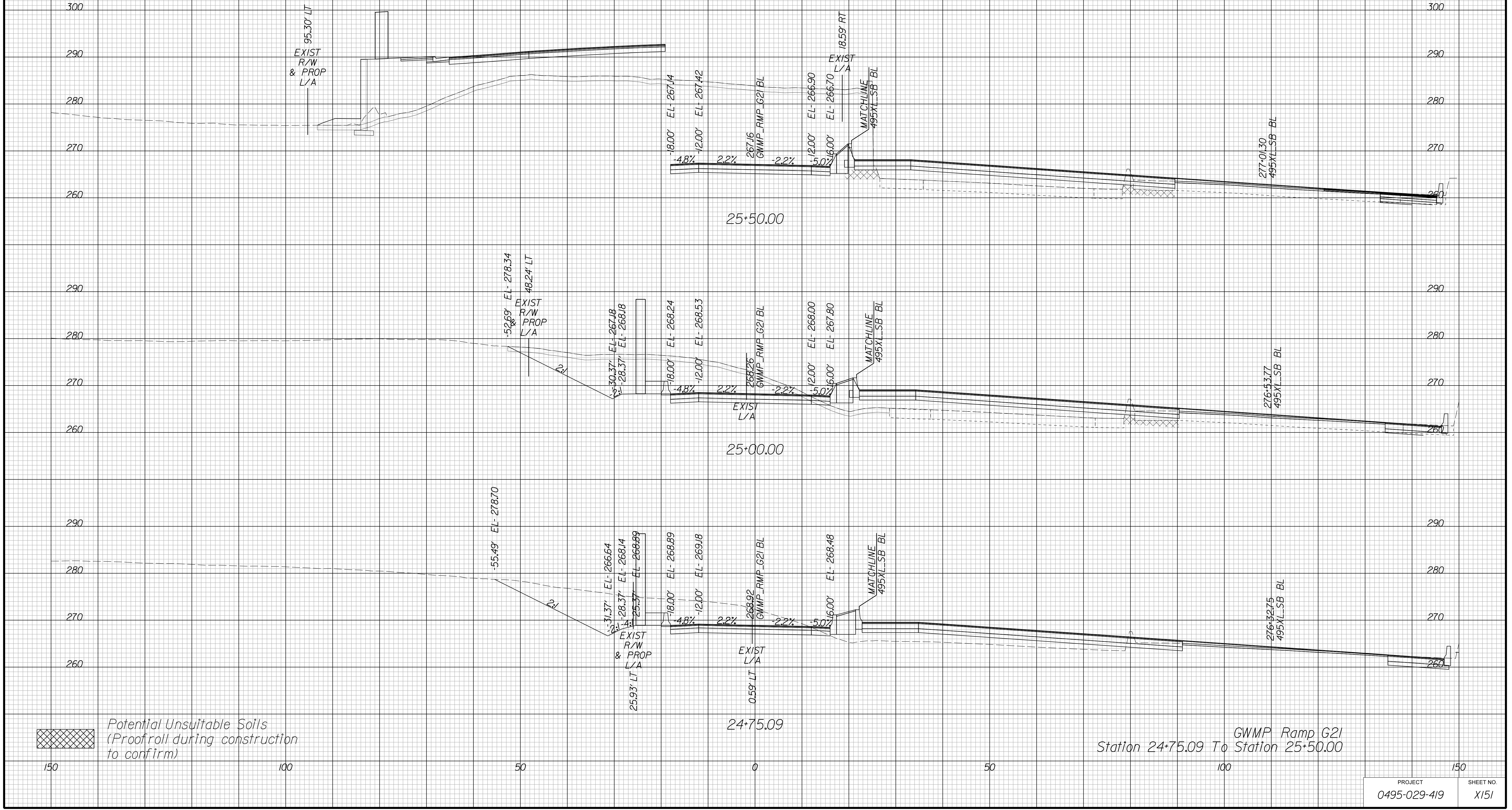
SCALE 1 IN. = 10 FT

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

REVISED	STATE	ROUTE	STATE PROJECT	SHEET NO.
	VA.	495	0495-029-419	X15/ AREA 4

Cross Section Labels Are Pertinent Only To The Roadway Associated To The Alignment In Focus. For Labels On Other Roadway See The Appropriate Cross Section Sheet.

Begin Retaining Wall 17B Sta. 25+64.89
Begin Potential Sound Barrier 10 Sta. 25+60.42



GWMP Ramp G21
Station 24+75.09 To Station 25+50.00

APPROVED FOR CONSTRUCTION

PROJECT	SHEET NO.
0495-029-419	X151

PROJECT MANAGER VDOT - Bimal Shah PE (703) 259-2362
SURVEYED BY DATE BDA - Nicholas Kougoulis LS (703) 334-0837, 12/2021
DESIGN BY BDA - Darrell Eischer BE (703) 334-0823, Dawberly - Ron Jakominich PE (703) 849-0651
SUBSURFACE UTILITY BY DATE Accurmark - Michael Taylor LS (703) 635-3060, 12/2021

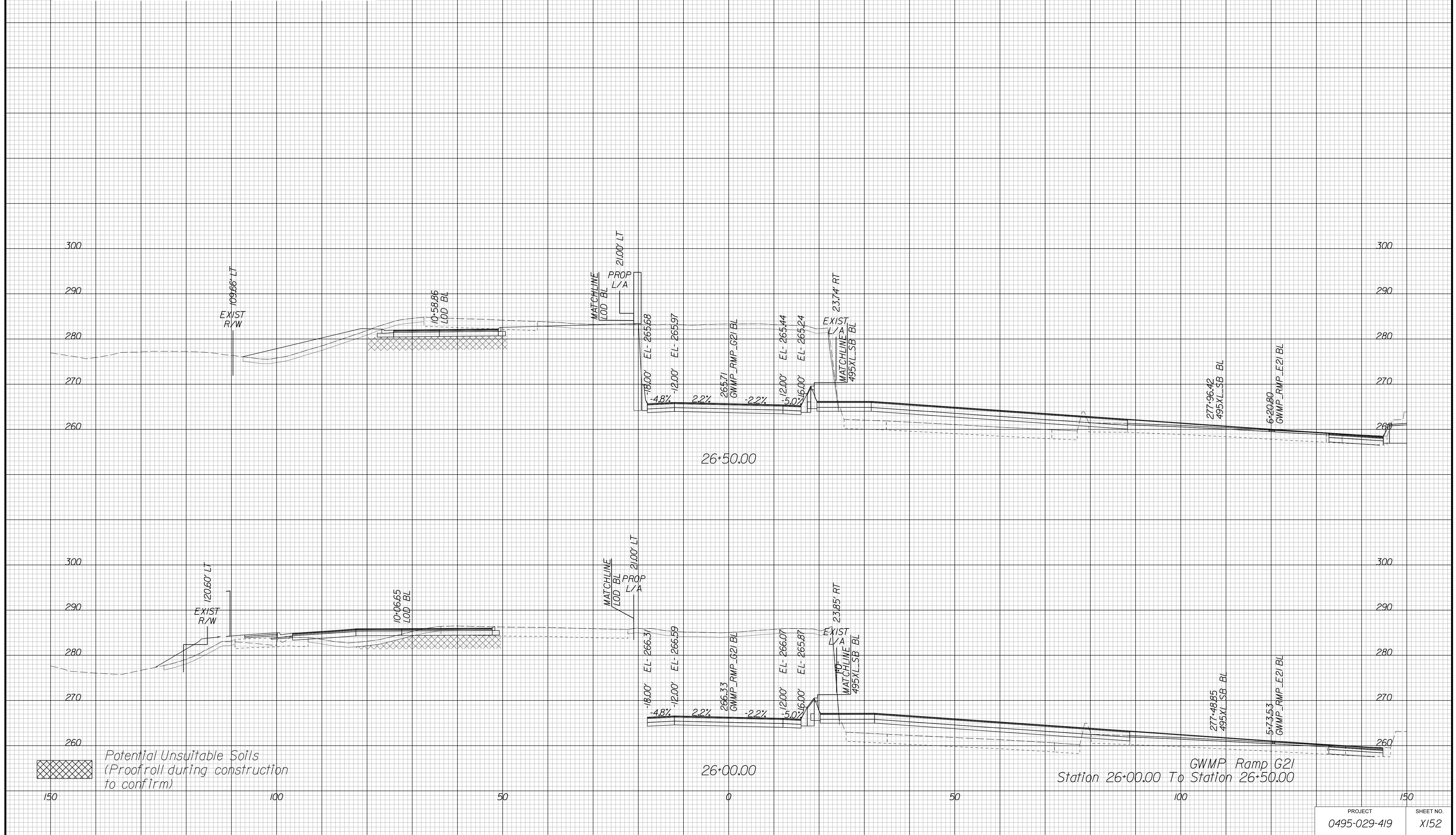
CROSS SECTIONS

SCALE 1 IN. = 10 FT

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

REVISED	STATE	ROUTE	STATE PROJECT	SHEET NO.
	VA.	495	0495-029-419	X152 AREA 4

Cross Section Labels Are Pertinent Only To The Roadway Associated To The Alignment In Focus. For Labels On Other Roadway See The Appropriate Cross Section Sheet.



APPROVED FOR CONSTRUCTION

PROJECT MANAGER VDOT - Bipal Shab PE (703) 259-2362
SURVEYED BY DATE BDA - Nicholas Kougoulis LS (703) 334-0837, 12/2021
DESIGN BY BDA - Darrell Eischer BE (703) 334-0823, Dawberly - Ron Jakominich PE (703) 849-0651
SUBSURFACE UTILITY BY DATE Accurmark - Michael Taylor LS (703) 635-3060, 12/2021

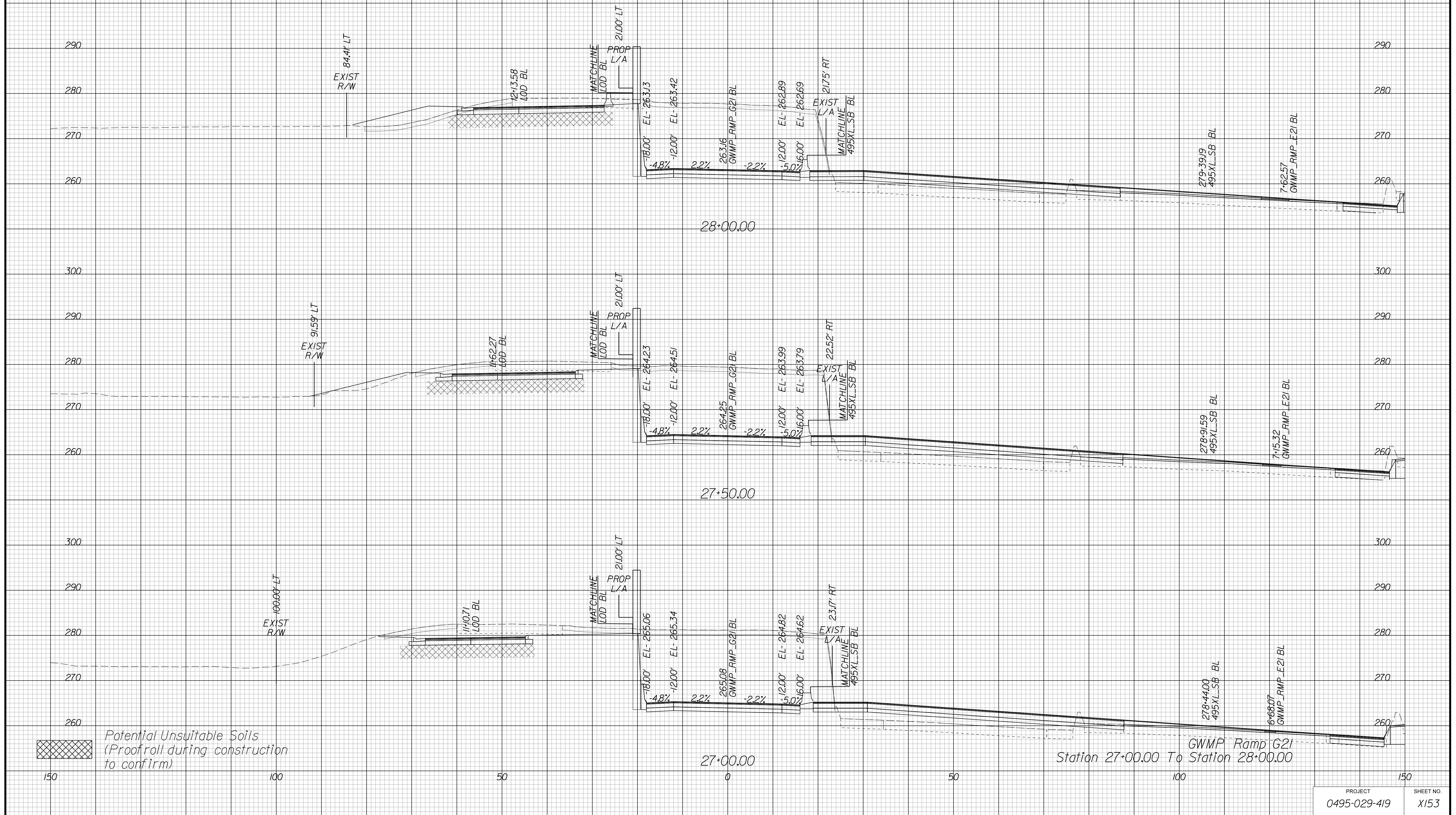
CROSS SECTIONS

SCALE 1 IN. = 10 FT

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

REVISED	STATE	ROUTE	STATE	PROJECT	SHEET NO.
	VA.	495		0495-029-419	X153 AREA 4

Cross Section Labels Are Pertinent Only To The Roadway Associated To The Alignment In Focus. For Labels On Other Roadway See The Appropriate Cross Section Sheet.



APPROVED FOR CONSTRUCTION

PROJECT MANAGER VDOT - Bimal Sab PE.(703) 259-2362
SURVEYED BY, DATE BDA - Nicholas Kougoulis LS.(703) 334-0837, 12/2021
DESIGN BY BDA - Darell Eischer BE.(703) 334-0823, Dawbercy - Ron Jakominich PE.(703) 849-0651
SUBSURFACE UTILITY BY, DATE Accurmark - Michael Taylor LS.(703) 635-3060, 12/2021

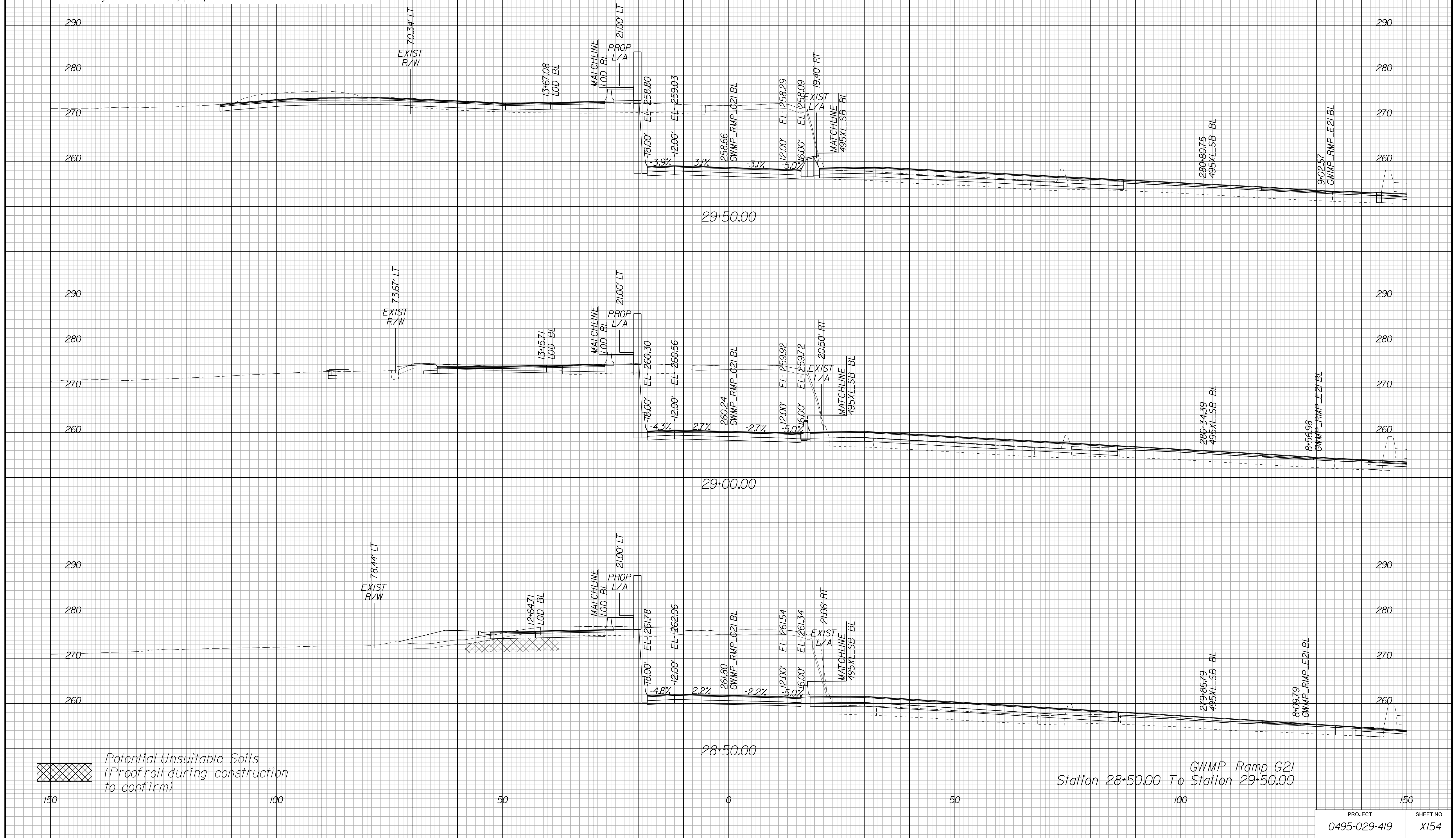
CROSS SECTIONS

SCALE 1 IN. = 10 FT

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

REVISION	STATE	ROUTE	STATE	PROJECT	SHEET NO.
	VA.	495		0495-029-419	X154 AREA 4

Cross Section Labels Are Pertinent Only To The Roadway Associated To The Alignment In Focus. For Labels On Other Roadway See The Appropriate Cross Section Sheet.



APPROVED FOR CONSTRUCTION

PROJECT MANAGER VDOT - Bimal Shab PE (703) 259-2362
SURVEYED BY DATE BDA - Nicholas Kougoulis LS (703) 334-0837, 12/2021
DESIGN BY BDA - Darell Eischer BE (703) 334-0823, Dawberly - Ron Jakominich PE (703) 849-0651
SUBSURFACE UTILITY BY DATE Accurmark - Michael Taylor LS (703) 635-3060, 12/2021

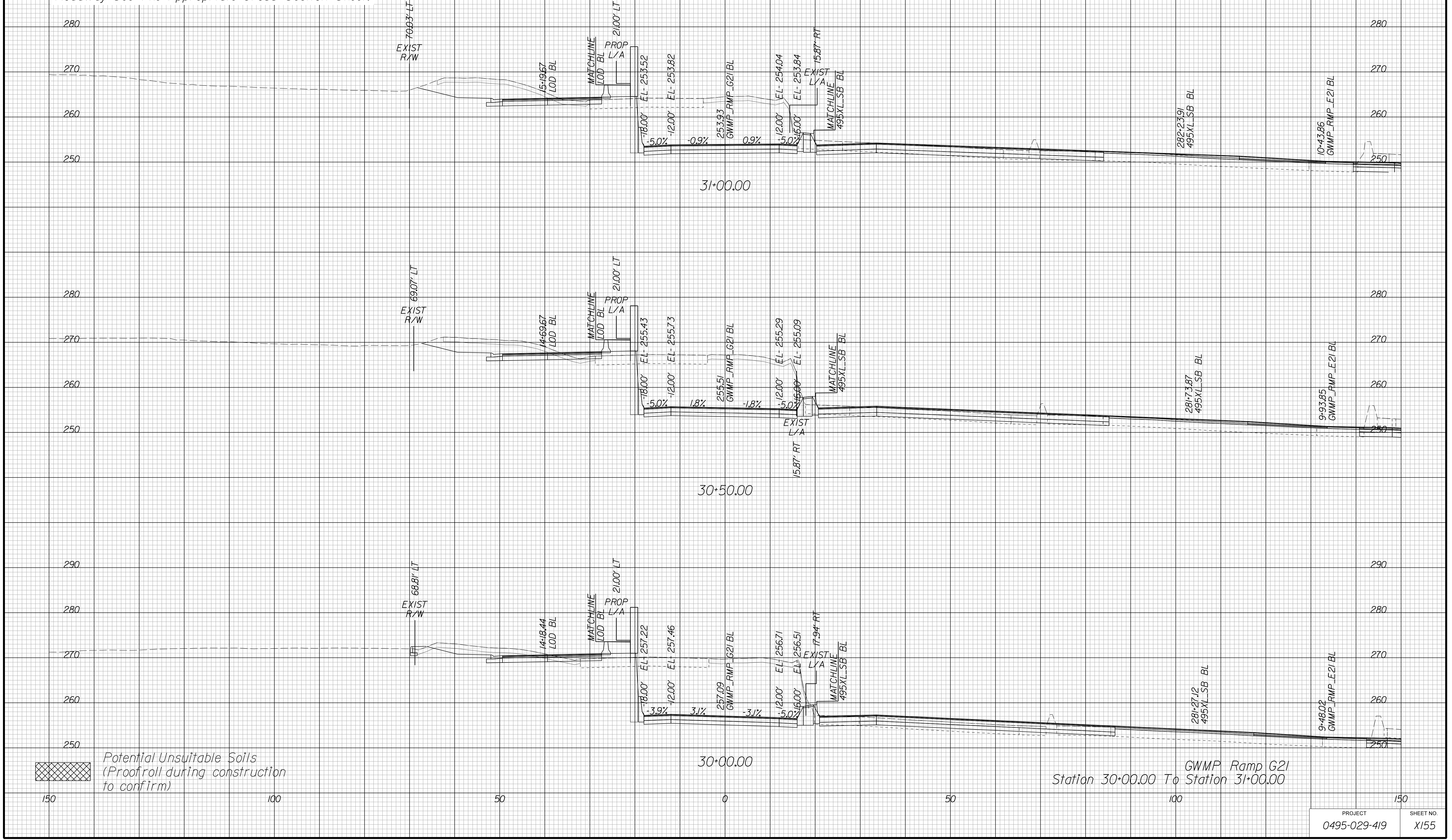
CROSS SECTIONS

SCALE 1 IN. = 10 FT

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

REVISED	STATE	ROUTE	STATE	PROJECT	SHEET NO.
	VA.	495		0495-029-419	X155 AREA 4

Cross Section Labels Are Pertinent Only To The Roadway Associated To The Alignment In Focus. For Labels On Other Roadway See The Appropriate Cross Section Sheet.



APPROVED FOR CONSTRUCTION

PROJECT MANAGER VDOT - Bimal Shab PE (703) 259-2362
SURVEYED BY DATE BDA - Nicholas Kougoulis LS (703) 334-0837, 12/2021
DESIGN BY BDA - Darrell Eischer BE (703) 334-0823, Dawberly - Ron Jakominich PE (703) 849-0651
SUBSURFACE UTILITY BY DATE Accumark - Michael Taylor LS (703) 635-3060, 12/2021

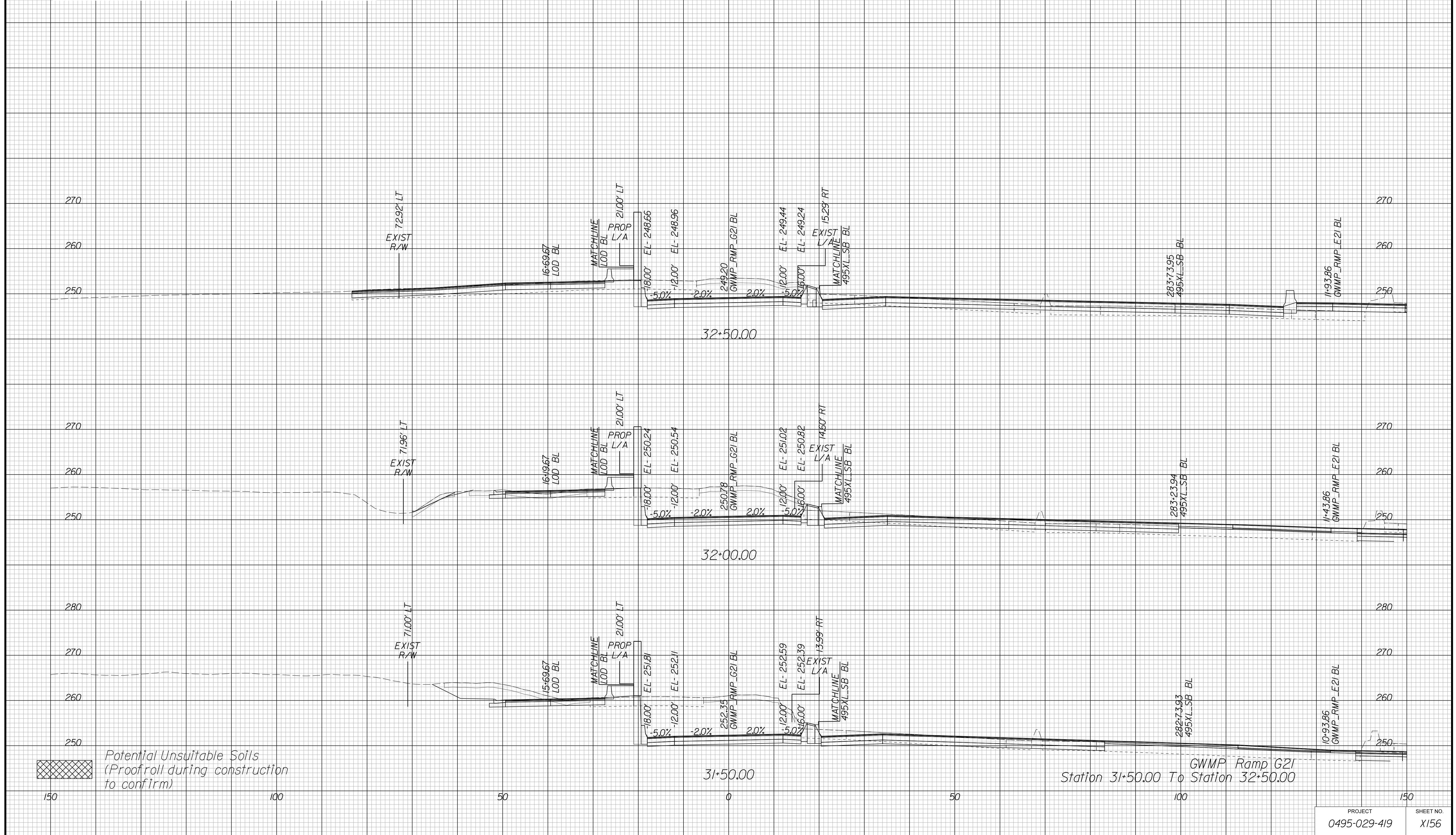
CROSS SECTIONS

SCALE 1 IN. = 10 FT

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

REVISED	STATE	ROUTE	STATE PROJECT	SHEET NO.
	VA.	495	0495-029-419	X156 AREA 4

Cross Section Labels Are Pertinent Only To The Roadway Associated To The Alignment In Focus. For Labels On Other Roadway See The Appropriate Cross Section Sheet.



APPROVED FOR CONSTRUCTION

PROJECT MANAGER VDOT - Bimbal Stab PE (703) 259-2362
SURVEYED BY, DATE BDA - Nicholas Kougoulis LS (703) 334-0837, 12/2021
DESIGN BY BDA - Darrell Eischer BE (703) 334-0823, Dawbergy - Ron Jakominich PE (703) 849-0651
SUBSURFACE UTILITY BY, DATE Accurmark - Michael Taylor LS (703) 635-3060, 12/2021

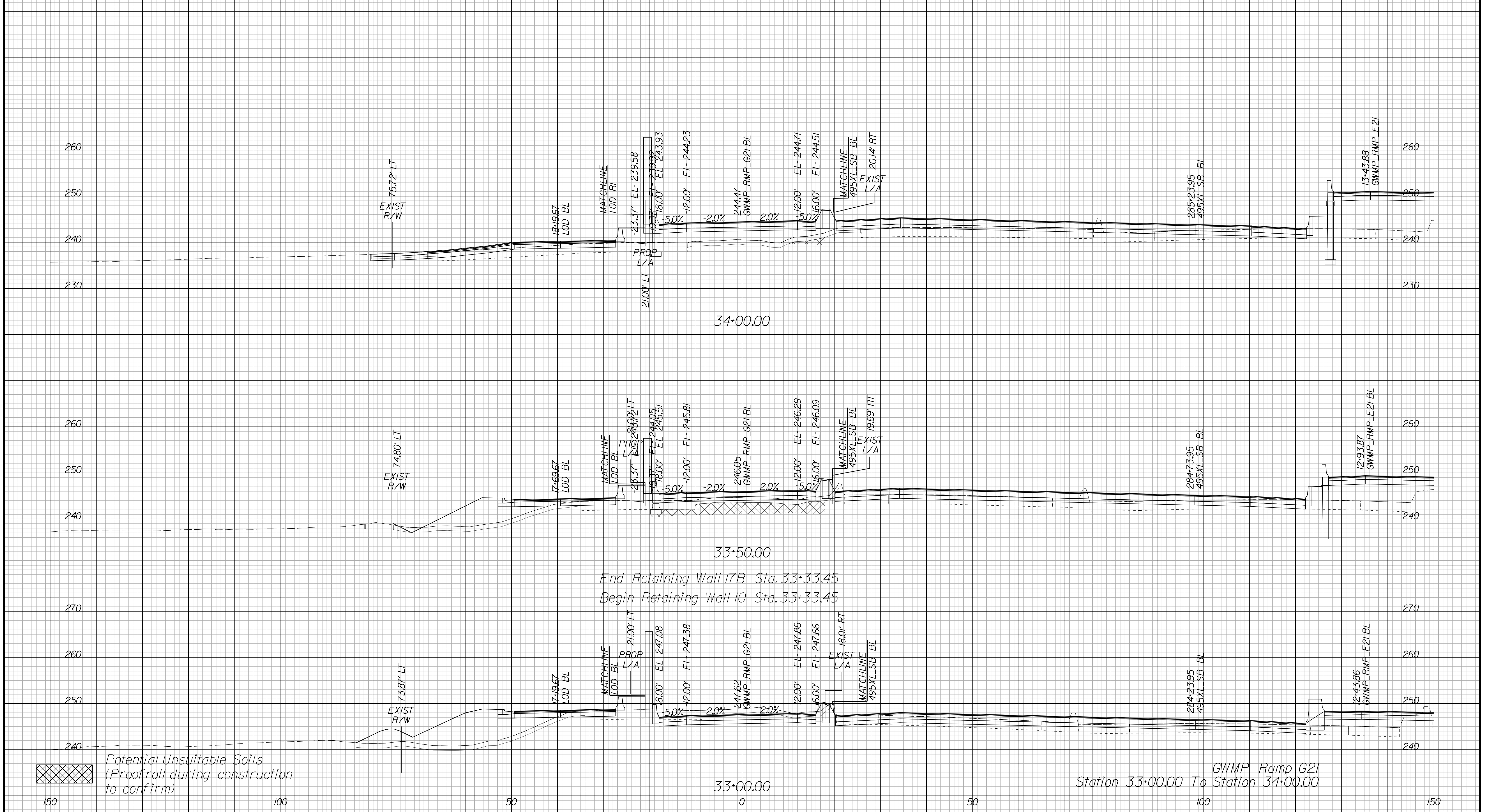
CROSS SECTIONS

SCALE 1 IN. = 10 FT

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

REVISION	STATE	ROUTE	STATE	PROJECT	SHEET NO.
	VA.	495		0495-029-419	X157 AREA 4

Cross Section Labels Are Pertinent Only To The Roadway Associated To The Alignment In Focus. For Labels On Other Roadway See The Appropriate Cross Section Sheet.



APPROVED FOR CONSTRUCTION

PROJECT MANAGER VDOT - Bimal Shab, PE, (703) 259-2362
SURVEYED BY, DATE BDA - Nicholas Kougoulis, LS, (703) 334-0837, 12/2021
DESIGN BY BDA - Darrell Eischer, BE, (703) 334-0823, Dawbercy - Ron Jakominich, PE, (703) 849-0651
SUBSURFACE UTILITY BY, DATE Accurmark - Michael Taylor, LS, (703) 635-3060, 12/2021

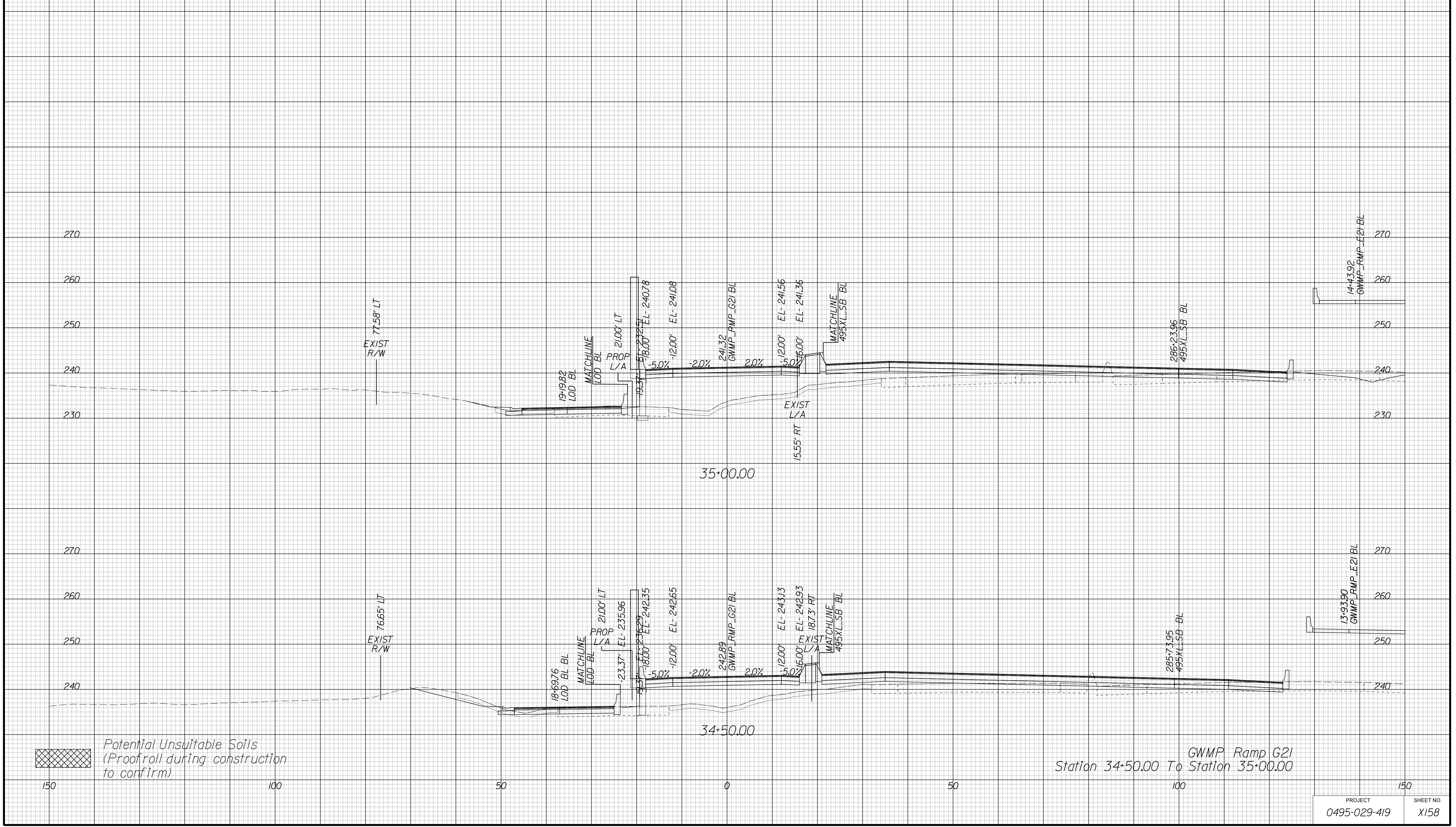
CROSS SECTIONS

SCALE 1 IN. = 10 FT

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

REVISED	STATE	ROUTE	STATE	PROJECT	SHEET NO.
	VA.	495		0495-029-419	X158 AREA 4

Cross Section Labels Are Pertinent Only To The Roadway Associated To The Alignment In Focus. For Labels On Other Roadway See The Appropriate Cross Section Sheet.



GWMP Ramp G21
Station 34+50.00 To Station 35+00.00

APPROVED FOR CONSTRUCTION

PROJECT MANAGER VDOT - Bipal Shah, PE, (703) 259-2362
SURVEYED BY, DATE BDA - Nicholas Kougoulis, LS, (703) 334-0837, 12/2021
DESIGN BY BDA - Darrell Eischer, BE, (703) 334-0823, Dawbercy - Ron Jakominich, PE, (703) 849-0651
SUBSURFACE UTILITY BY, DATE Accurmark - Michael Taylor, LS, (703) 635-3060, 12/2021

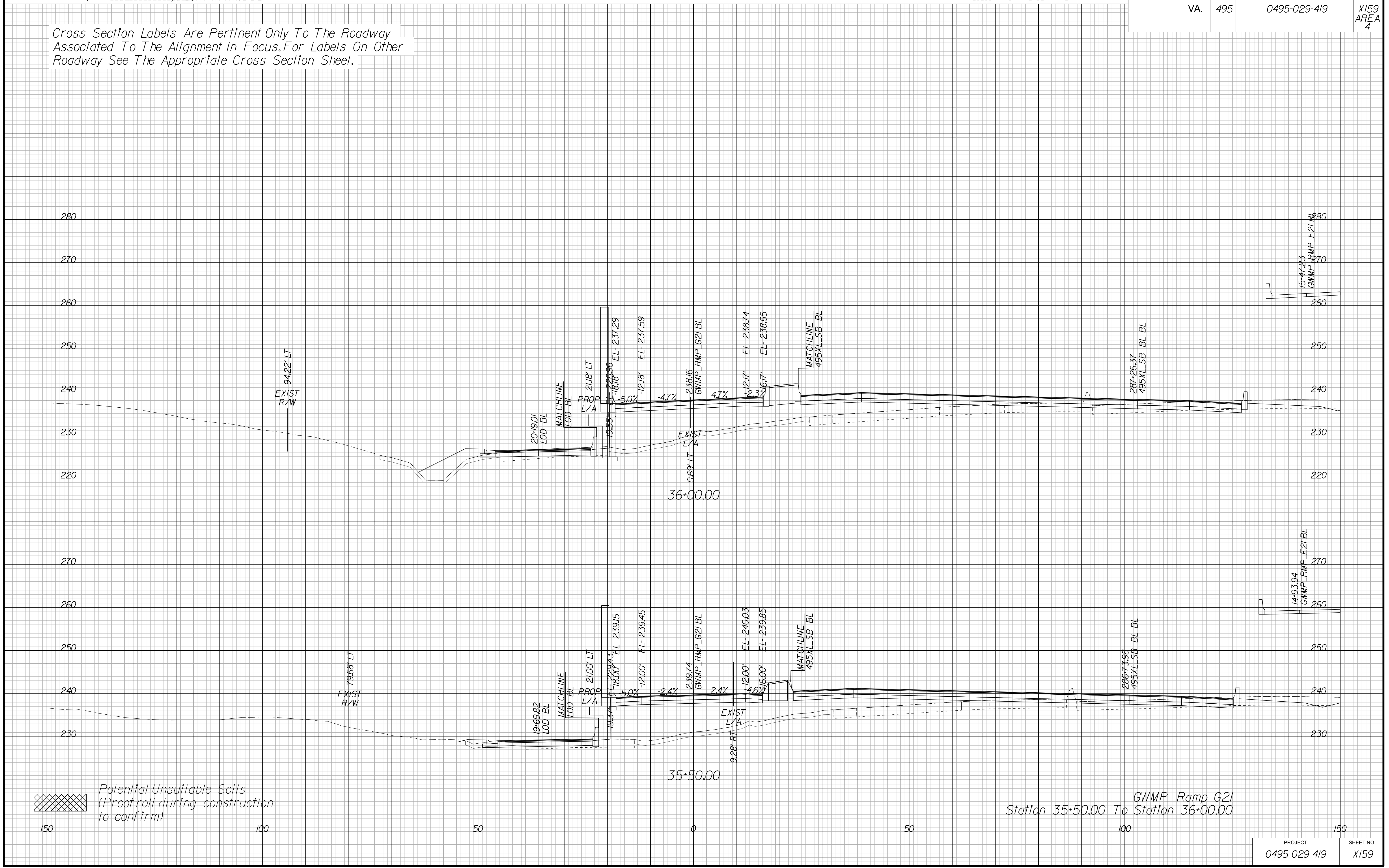
CROSS SECTIONS

SCALE 1 IN. = 10 FT

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

REVISED	STATE	ROUTE	STATE	PROJECT	SHEET NO.
	VA.	495		0495-029-419	X159 AREA 4

Cross Section Labels Are Pertinent Only To The Roadway Associated To The Alignment In Focus. For Labels On Other Roadway See The Appropriate Cross Section Sheet.



APPROVED FOR CONSTRUCTION

PROJECT MANAGER VDOT - Bipal Shab, PE, (703) 259-2362
SURVEYED BY, DATE BDA - Nicholas Kougoulis, LS, (703) 334-0837, 12/2021
DESIGN BY BDA - Darrell Eischer, BE, (703) 334-0823, Dawberly - Ron Jakominich, PE, (703) 849-0651
SUBSURFACE UTILITY BY, DATE Accurmark - Michael Taylor, LS, (703) 635-3060, 12/2021

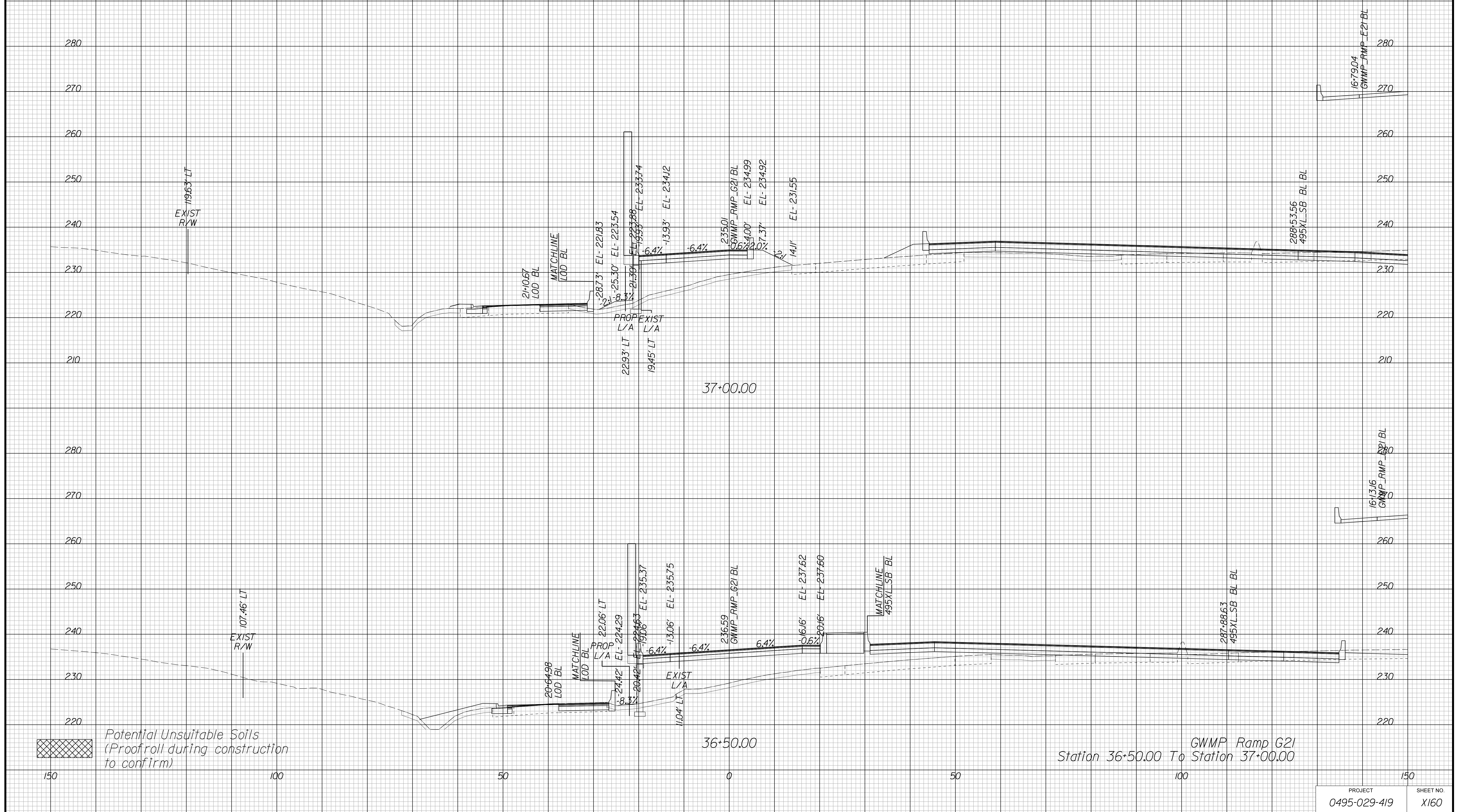
CROSS SECTIONS

SCALE 1 IN. = 10 FT

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

REVISED	STATE	ROUTE	STATE	PROJECT	SHEET NO.
	VA.	495		0495-029-419	X160 AREA 4

Cross Section Labels Are Pertinent Only To The Roadway Associated To The Alignment In Focus. For Labels On Other Roadway See The Appropriate Cross Section Sheet.



GWMP Ramp G21 Station 36+50.00 To Station 37+00.00

APPROVED FOR CONSTRUCTION

PROJECT MANAGER VDOT - Bipal Shah PE (703) 259-2362
SURVEYED BY, DATE BDA - Nicholas Kouyoulis LS (703) 334-0837, 12/2021
DESIGN BY BDA - Darrell Eischer BE (703) 334-0823, Dawbergy - Ron Jakominich PE (703) 849-0651
SUBSURFACE UTILITY BY, DATE Accurmark - Michael Taylor LS (703) 635-3060, 12/2021

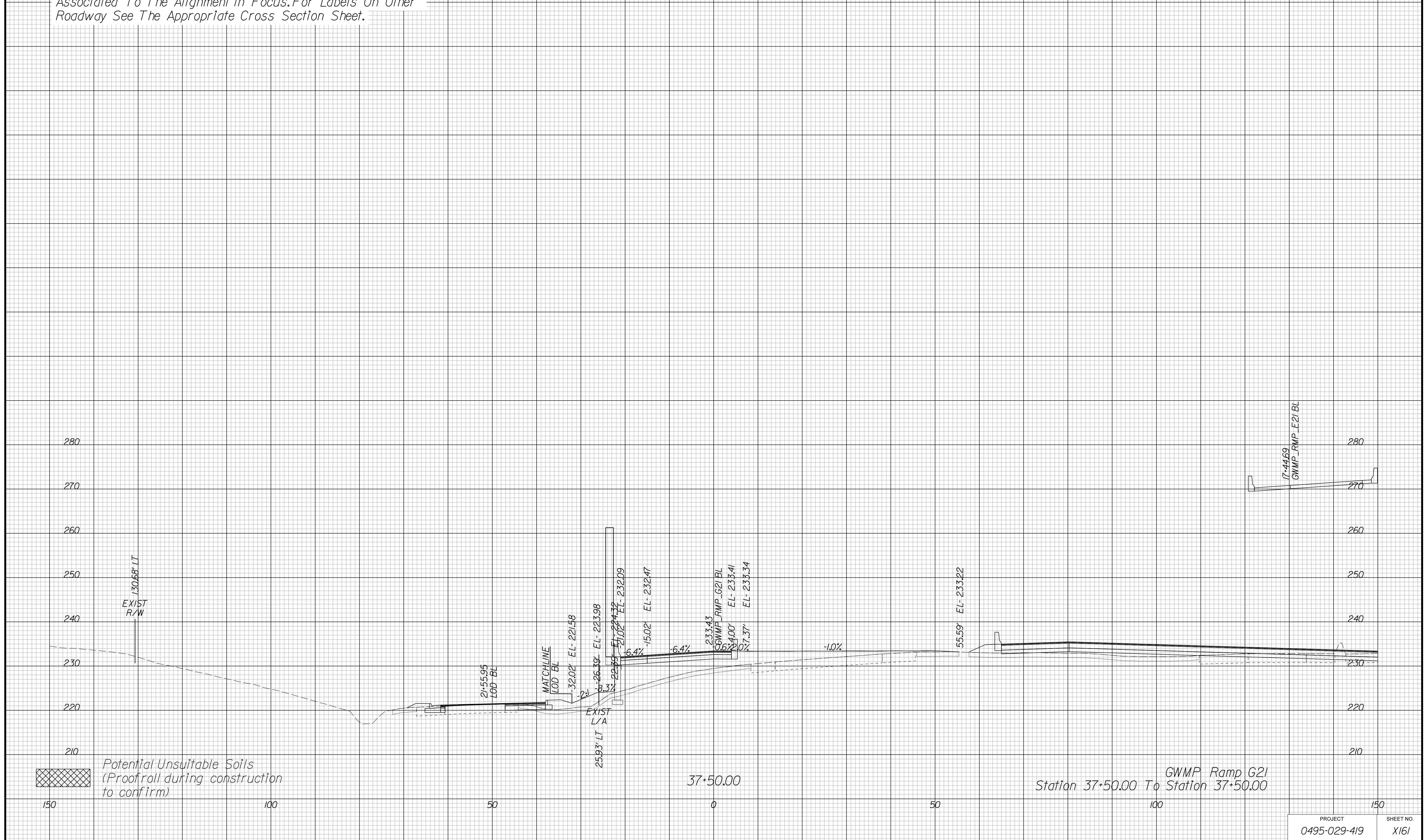
CROSS SECTIONS

SCALE 1 IN. = 10 FT

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

REVISED	STATE	ROUTE	STATE PROJECT	SHEET NO.
	VA.	495	0495-029-419	X161 AREA 4

Cross Section Labels Are Pertinent Only To The Roadway Associated To The Alignment In Focus. For Labels On Other Roadway See The Appropriate Cross Section Sheet.



APPROVED FOR CONSTRUCTION

PROJECT MANAGER VDOT - Bipal Shah, PE, (703) 259-2362
SURVEYED BY, DATE BDA - Nicholas Kougoulis, LS, (703) 334-0837, 12/2021
DESIGN BY BDA - Darrell Eischer, BE, (703) 334-0823, Dawbercy - Ron Jakominich, PE, (703) 849-0651
SUBSURFACE UTILITY BY, DATE Accurmark - Michael Taylor, LS, (703) 635-3060, 12/2021

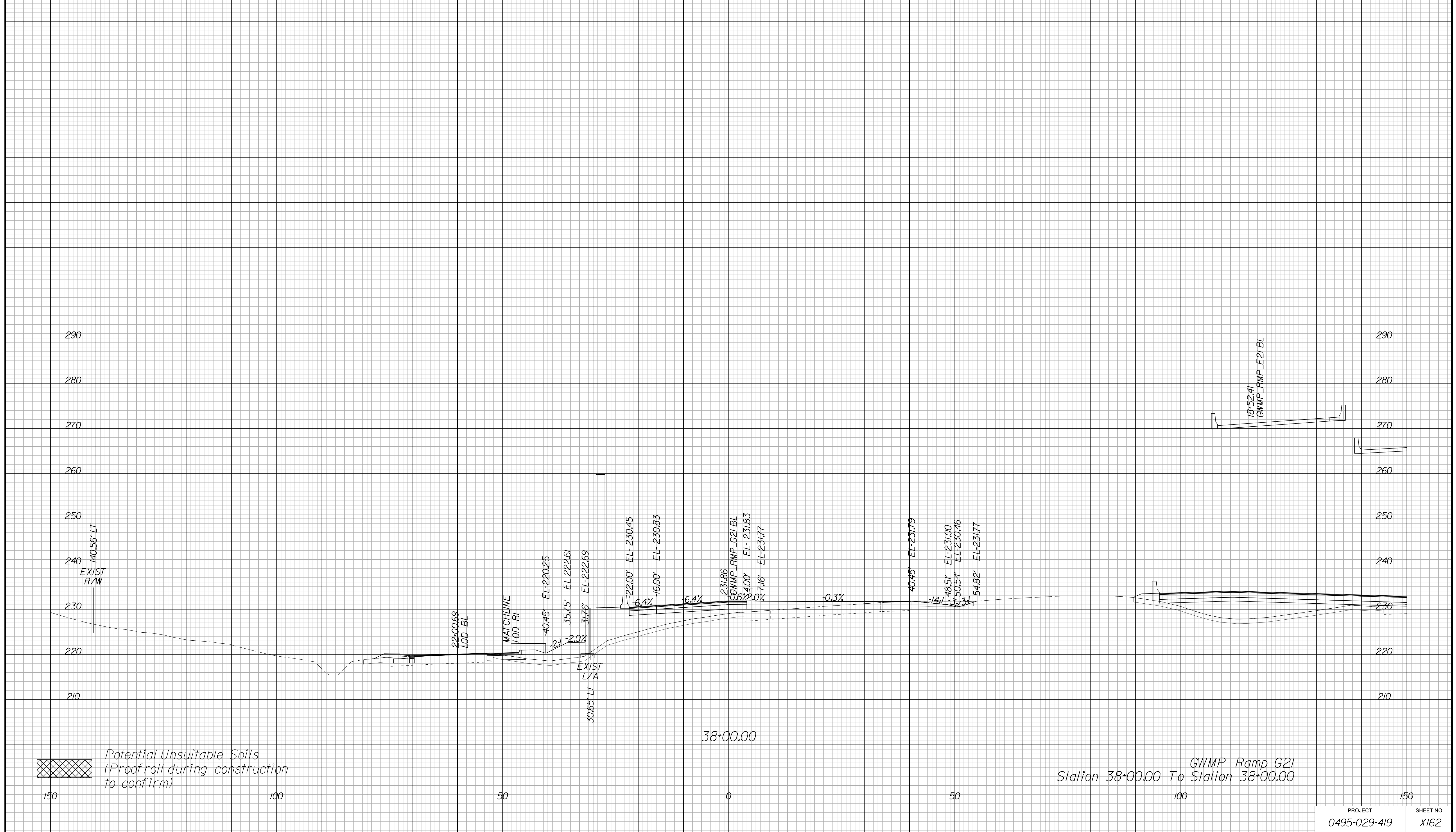
CROSS SECTIONS

SCALE 1 IN. = 10 FT

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

REVISED	STATE	ROUTE	STATE PROJECT	SHEET NO.
	VA.	495	0495-029-419	X162 AREA 4

Cross Section Labels Are Pertinent Only To The Roadway Associated To The Alignment In Focus. For Labels On Other Roadway See The Appropriate Cross Section Sheet.



GWMP Ramp G21
Station 38+00.00 To Station 38+00.00

Potential Unsuitable Soils
(Proofroll during construction to confirm)

PROJECT	SHEET NO.
0495-029-419	X162

APPROVED FOR CONSTRUCTION

PROJECT MANAGER VDOT - Bimal Sab PE.(703) 259-2362
SURVEYED BY, DATE BDA - Nicholas Kougoulis LS.(703) 334-0837, 12/2021
DESIGN BY BDA - Darell Eischer BE.(703) 334-0823, Dawbercy - Ron Jakominich PE.(703) 849-0651
SUBSURFACE UTILITY BY, DATE Accurmark - Michael Taylor LS.(703) 635-3060, 12/2021

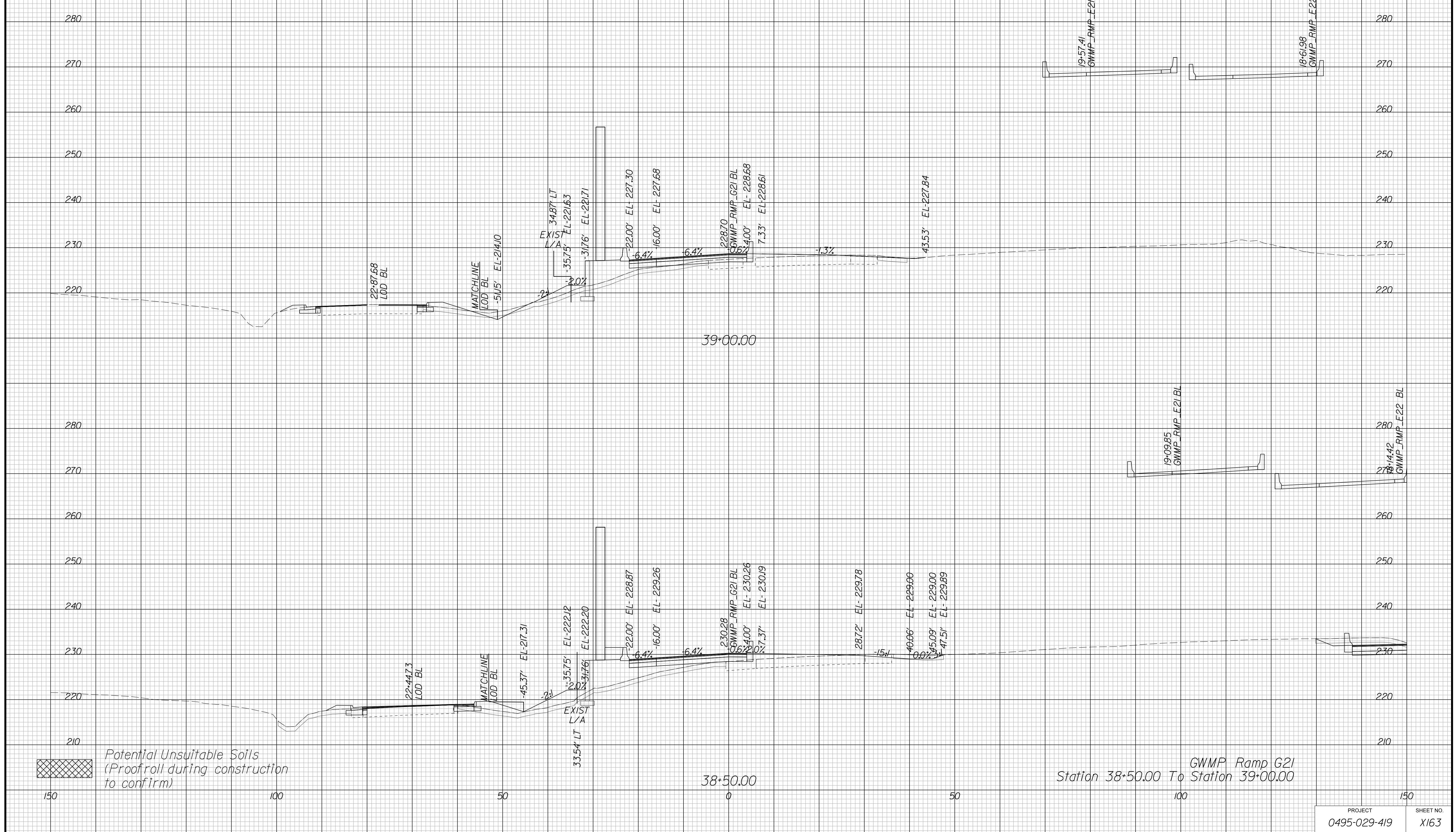
CROSS SECTIONS

SCALE 1 IN. = 10 FT

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

REVISED	STATE	ROUTE	STATE	PROJECT	SHEET NO.
	VA.	495		0495-029-419	X163 AREA 4

Cross Section Labels Are Pertinent Only To The Roadway Associated To The Alignment In Focus. For Labels On Other Roadway See The Appropriate Cross Section Sheet.



GWMP Ramp G21
Station 38+50.00 To Station 39+00.00

APPROVED FOR CONSTRUCTION

PROJECT	SHEET NO.
0495-029-419	X163

PROJECT MANAGER VDOT - Bimal Shah, PE, (703) 259-2362
SURVEYED BY, DATE BDA - Nicholas Kougoullis, LS, (703) 334-0837, 12/2021
DESIGN BY BDA - Darrell Eischer, BE, (703) 334-0823, Dawberly - Ron Jakominich, PE, (703) 849-0651
SUBSURFACE UTILITY BY, DATE Accurmark - Michael Taylor, LS, (703) 635-3060, 12/2021

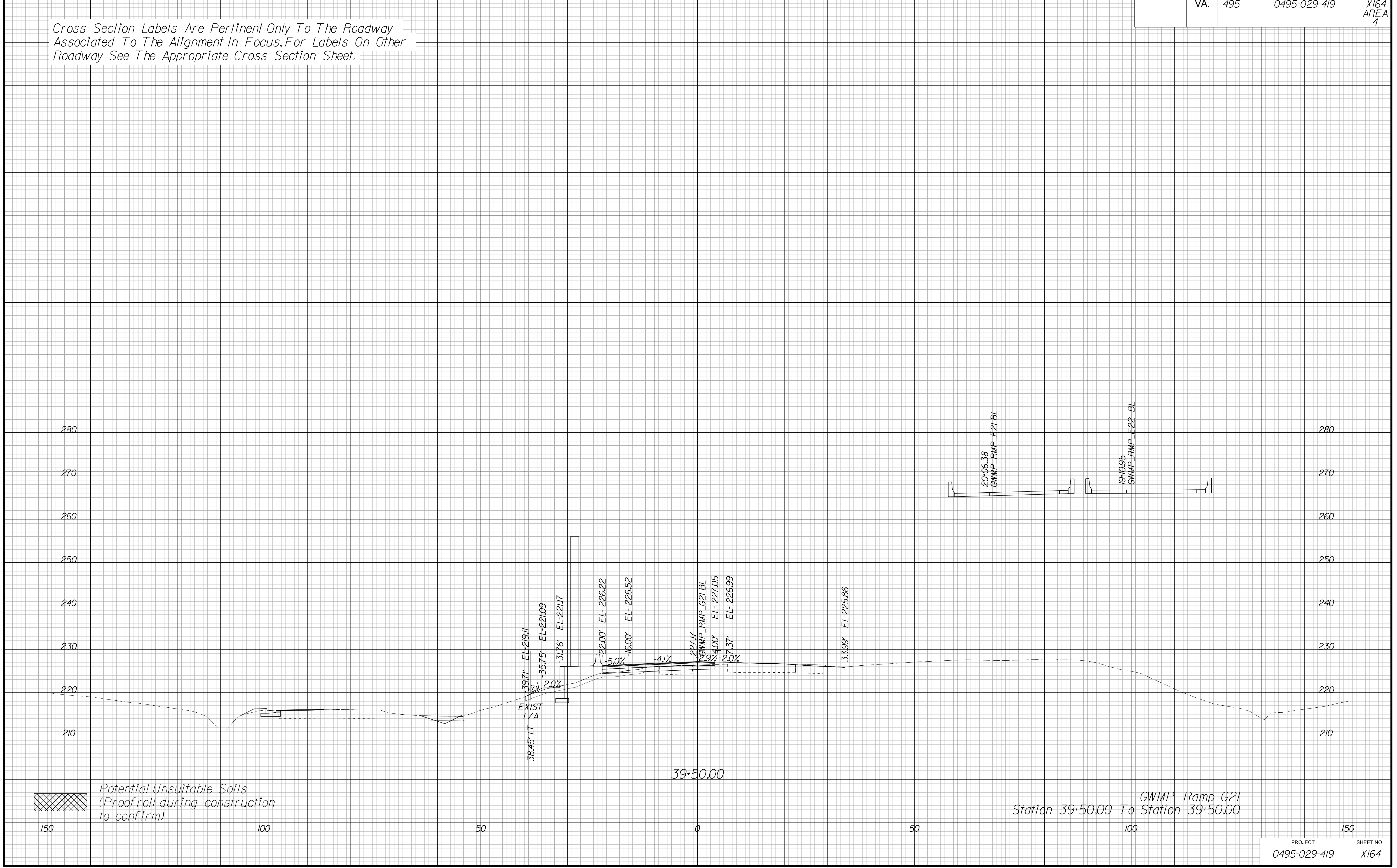
CROSS SECTIONS

SCALE 1 IN. = 10 FT

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

REVISED	STATE	ROUTE	STATE	PROJECT	SHEET NO.
	VA.	495		0495-029-419	X164 AREA 4

Cross Section Labels Are Pertinent Only To The Roadway Associated To The Alignment In Focus. For Labels On Other Roadway See The Appropriate Cross Section Sheet.



APPROVED FOR CONSTRUCTION

PROJECT MANAGER VDOT - Bimal Sab PE (703) 259-2362
SURVEYED BY DATE BDA - Nicholas Kougoulis LS (703) 334-0837, 12/2021
DESIGN BY BDA - Darell Eischer BE (703) 334-0823, Dewberry - Ron Jakominich PE (703) 849-0651
SUBSURFACE UTILITY BY DATE Accurmark - Michael Taylor LS (703) 635-3060, 12/2021

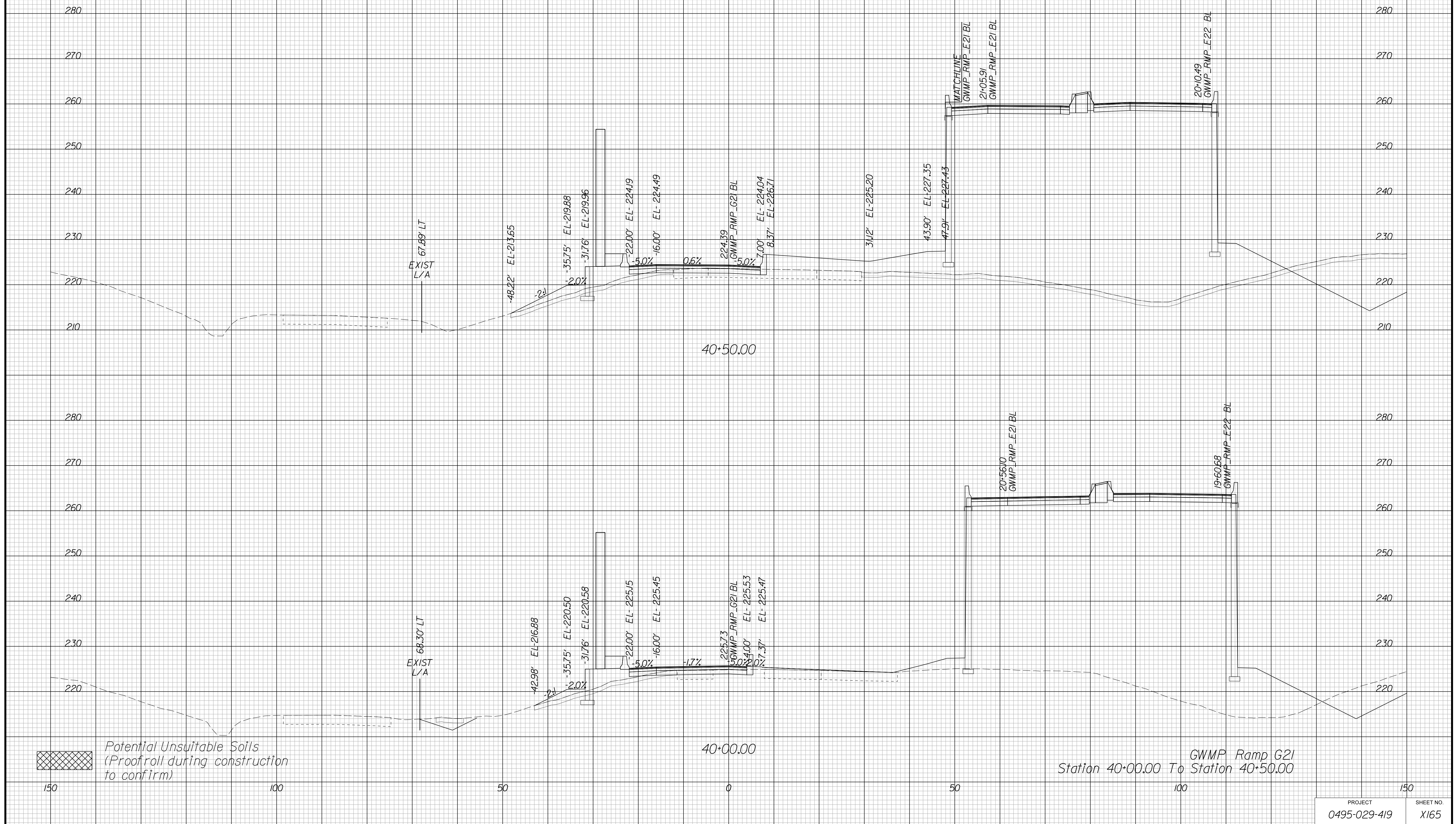
CROSS SECTIONS

SCALE 1 IN. = 10 FT

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

REVISION	STATE	ROUTE	STATE	PROJECT	SHEET NO.
	VA.	495		0495-029-419	X165 AREA 4

Cross Section Labels Are Pertinent Only To The Roadway Associated To The Alignment In Focus. For Labels On Other Roadway See The Appropriate Cross Section Sheet.



APPROVED FOR CONSTRUCTION

PROJECT MANAGER VDOT - Bimal Sab PE.(703) 259-2362
SURVEYED BY, DATE BDA - Nicholas Kougoulis LS.(703) 334-0837,12/2021
DESIGN BY BDA - Darrell Eischer BE.(703) 334-0823, Dawbercy - Ron Jakominich PE.(703) 849-0651
SUBSURFACE UTILITY BY, DATE Accurmark - Michael Taylor LS.(703) 635-3060,12/2021

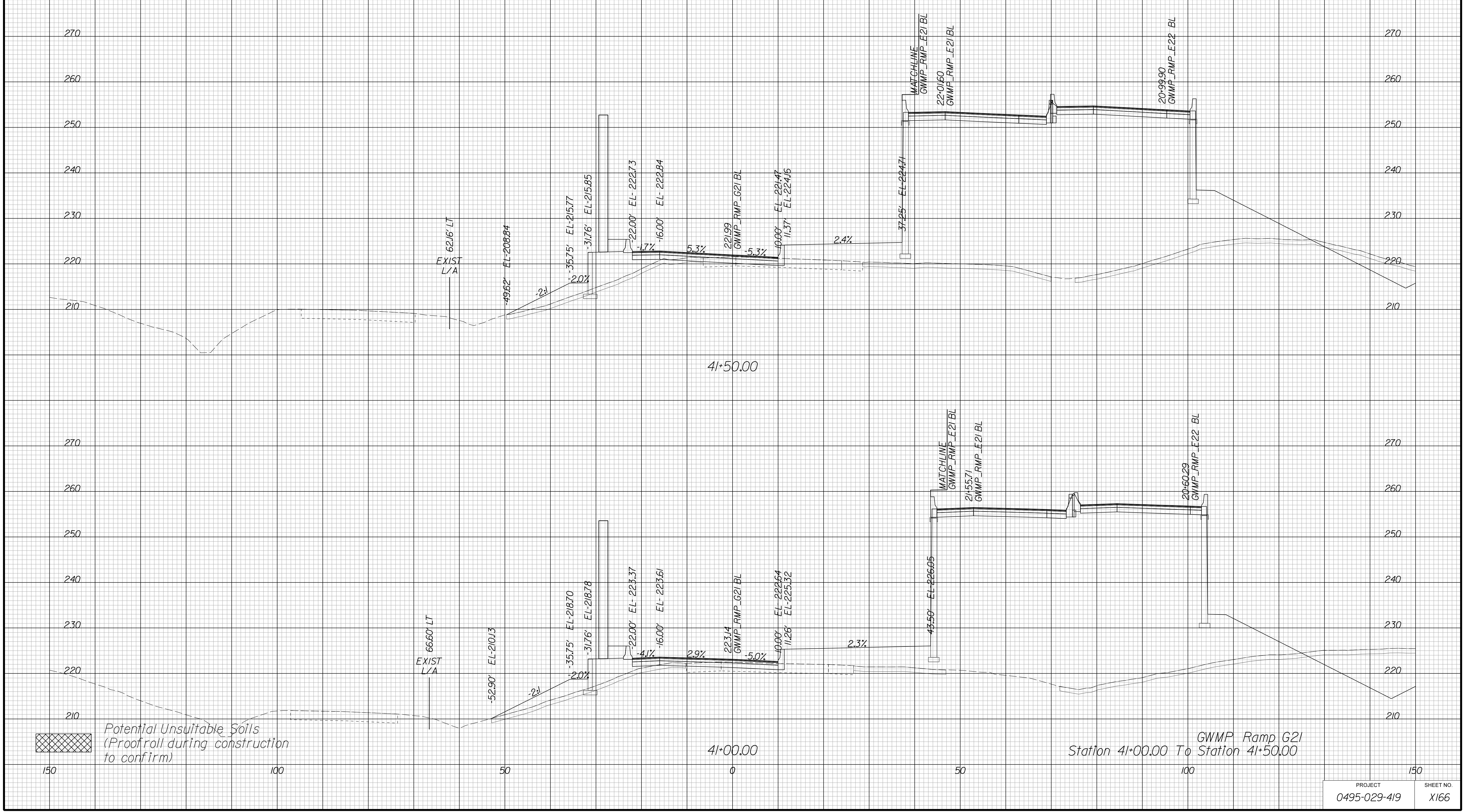
CROSS SECTIONS

SCALE 1 IN. = 10 FT

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

REVISED	STATE	ROUTE	STATE	PROJECT	SHEET NO.
	VA.	495		0495-029-419	X166 AREA 4

Cross Section Labels Are Pertinent Only To The Roadway Associated To The Alignment In Focus. For Labels On Other Roadway See The Appropriate Cross Section Sheet.



APPROVED FOR CONSTRUCTION

PROJECT MANAGER VDOT - Bimal Shah PE (703) 259-2362
SURVEYED BY, DATE BDA - Nicholas Kougoulis LS (703) 334-0837, 12/2021
DESIGN BY BDA - Darrell Eischer BE (703) 334-0823, Dawbergy - Ron Jakominich PE (703) 849-0651
SUBSURFACE UTILITY BY, DATE Accurmark - Michael Taylor LS (703) 635-3060, 12/2021

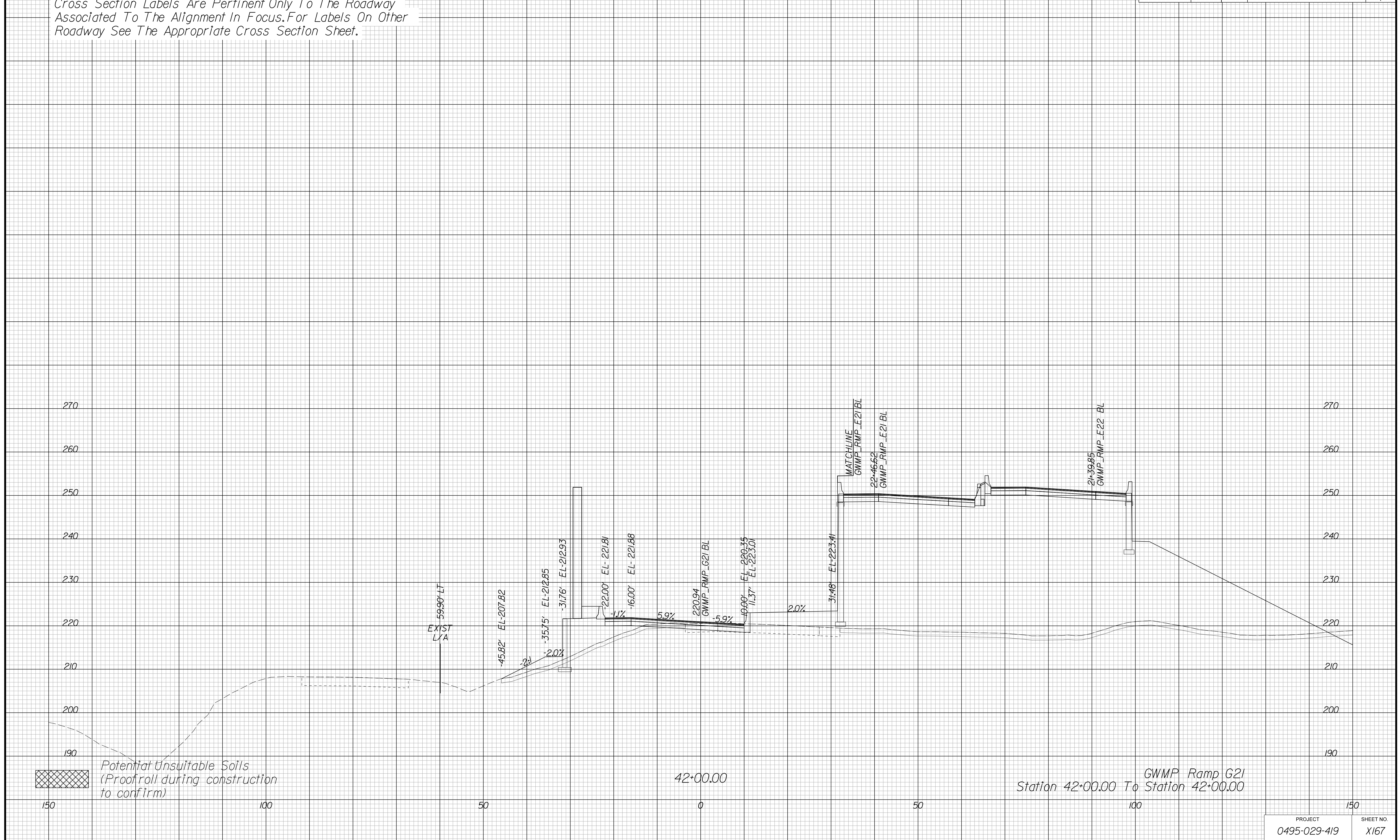
CROSS SECTIONS

SCALE 1 IN. = 10 FT

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

REVISED	STATE	ROUTE	STATE	PROJECT	SHEET NO.
	VA.	495		0495-029-419	X167 AREA 4

Cross Section Labels Are Pertinent Only To The Roadway Associated To The Alignment In Focus. For Labels On Other Roadway See The Appropriate Cross Section Sheet.



APPROVED FOR CONSTRUCTION

PROJECT	SHEET NO.
0495-029-419	X167

PROJECT MANAGER VDOT - Bimal Shah, PE, (703) 259-2362
SURVEYED BY, DATE BDA - Nicholas Kougoullis, LS, (703) 334-0837, 12/2021
DESIGN BY BDA - Darrell Eischer, BE, (703) 334-0823, Dawberly - Ron Jakominich, PE, (703) 849-0651
SUBSURFACE UTILITY BY, DATE Accurmark - Michael Taylor, LS, (703) 635-3060, 12/2021

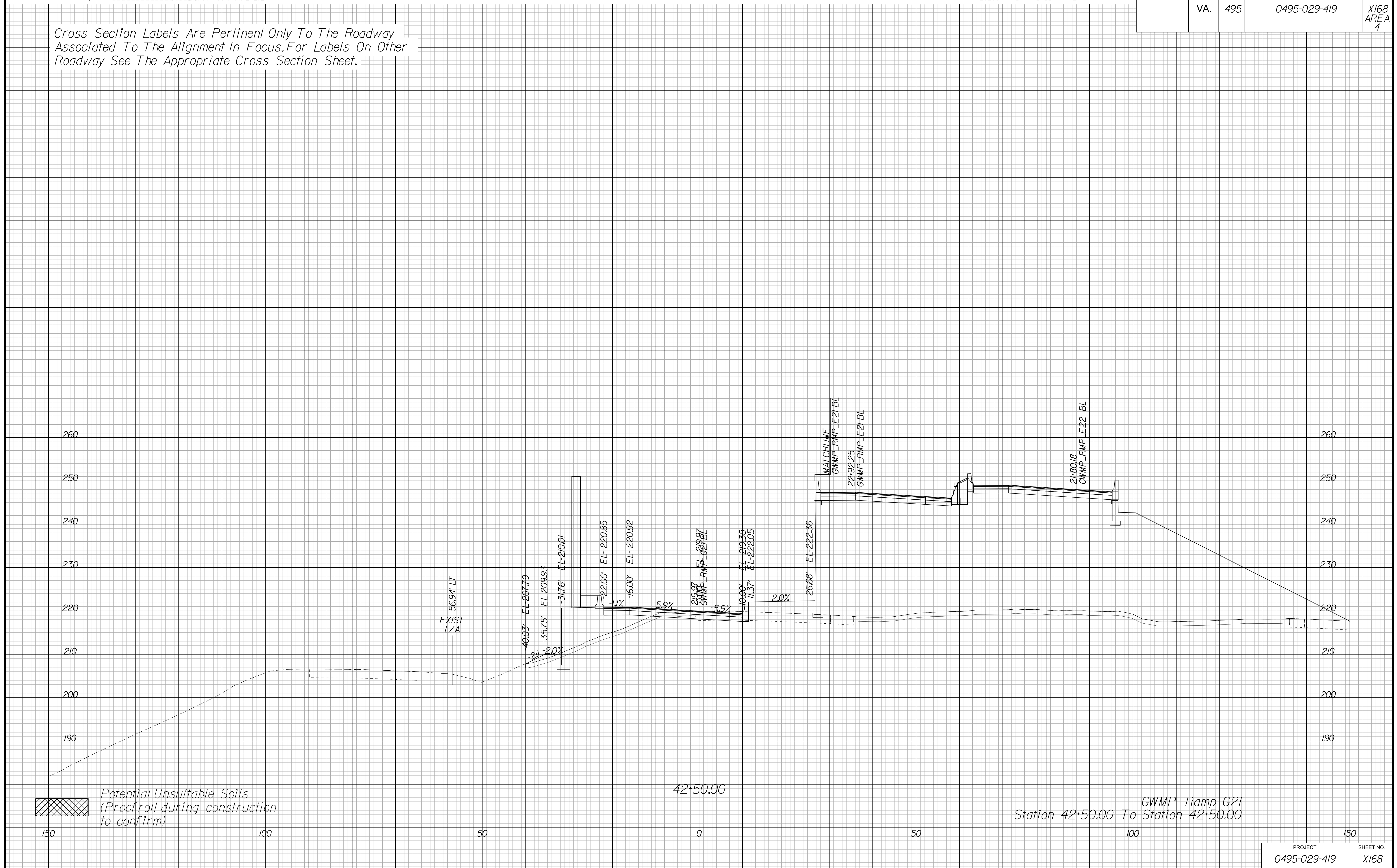
CROSS SECTIONS

SCALE 1 IN. = 10 FT

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

REVISED	STATE	ROUTE	STATE	PROJECT	SHEET NO.
	VA.	495		0495-029-419	X168 AREA 4

Cross Section Labels Are Pertinent Only To The Roadway Associated To The Alignment In Focus. For Labels On Other Roadway See The Appropriate Cross Section Sheet.



PROJECT	SHEET NO.
0495-029-419	X168

APPROVED FOR CONSTRUCTION

PROJECT MANAGER VDOT - Bimal Shah, PE, (703) 259-2362
SURVEYED BY, DATE BDA - Nicholas Kougoullis, LS, (703) 334-0837, 12/2021
DESIGN BY BDA - Darrell Eischer, BE, (703) 334-0823, Dawberly - Ron Jakominich, PE, (703) 849-0651
SUBSURFACE UTILITY BY, DATE Accurmark - Michael Taylor, LS, (703) 635-3060, 12/2021

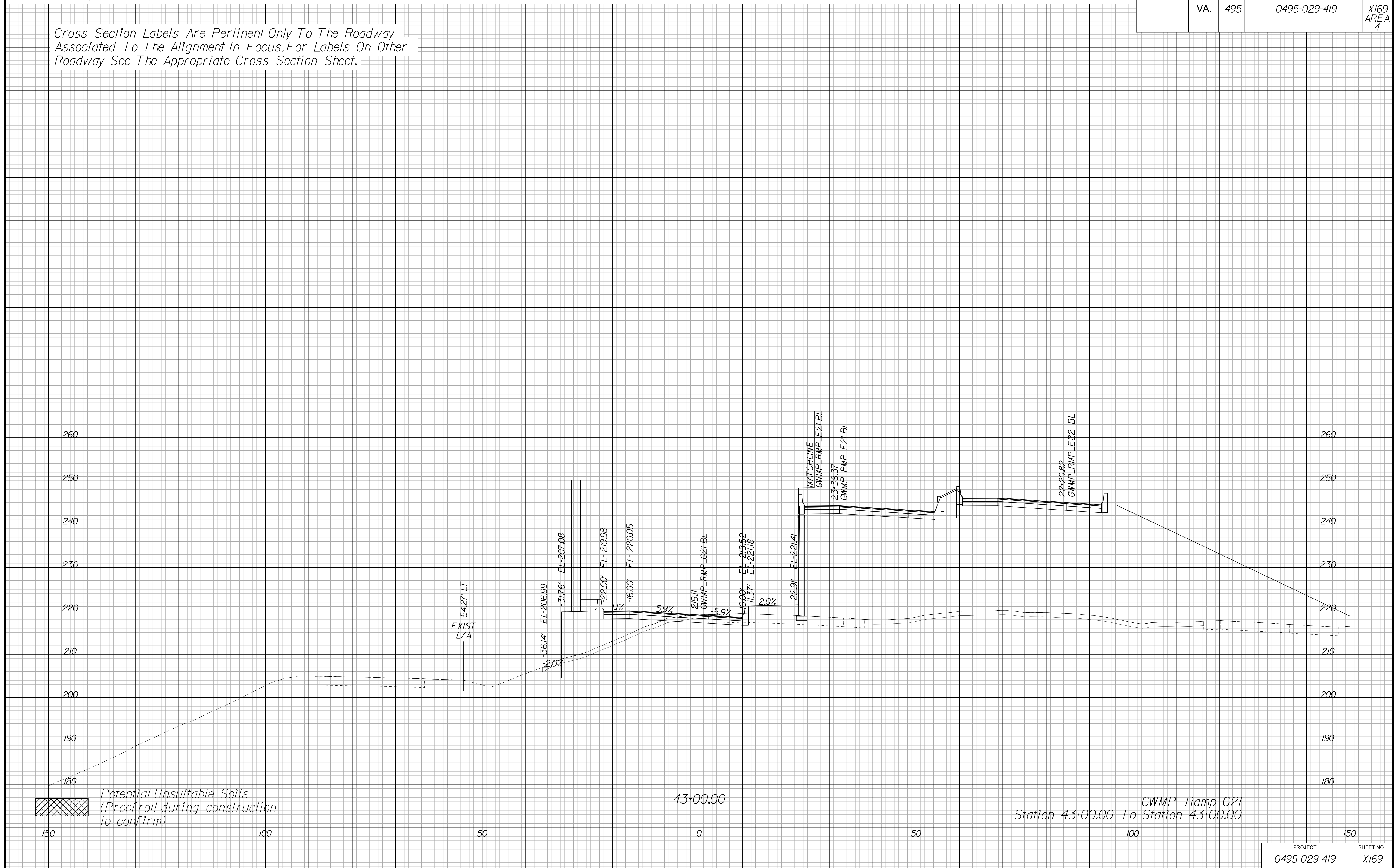
CROSS SECTIONS

SCALE 1 IN. = 10 FT

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

REVISED	STATE	ROUTE	STATE	PROJECT	SHEET NO.
	VA.	495		0495-029-419	X169 AREA 4

Cross Section Labels Are Pertinent Only To The Roadway Associated To The Alignment In Focus. For Labels On Other Roadway See The Appropriate Cross Section Sheet.



APPROVED FOR CONSTRUCTION

PROJECT MANAGER VDOT - Bimal Shah, PE, (703) 259-2362
SURVEYED BY, DATE BDA - Nicholas Kougoullis, LS, (703) 334-0837, 12/2021
DESIGN BY BDA - Darrell Eischer, BE, (703) 334-0823, Dawberly - Ron Jakominich, PE, (703) 849-0651
SUBSURFACE UTILITY BY, DATE Accurmark - Michael Taylor, LS, (703) 635-3060, 12/2021

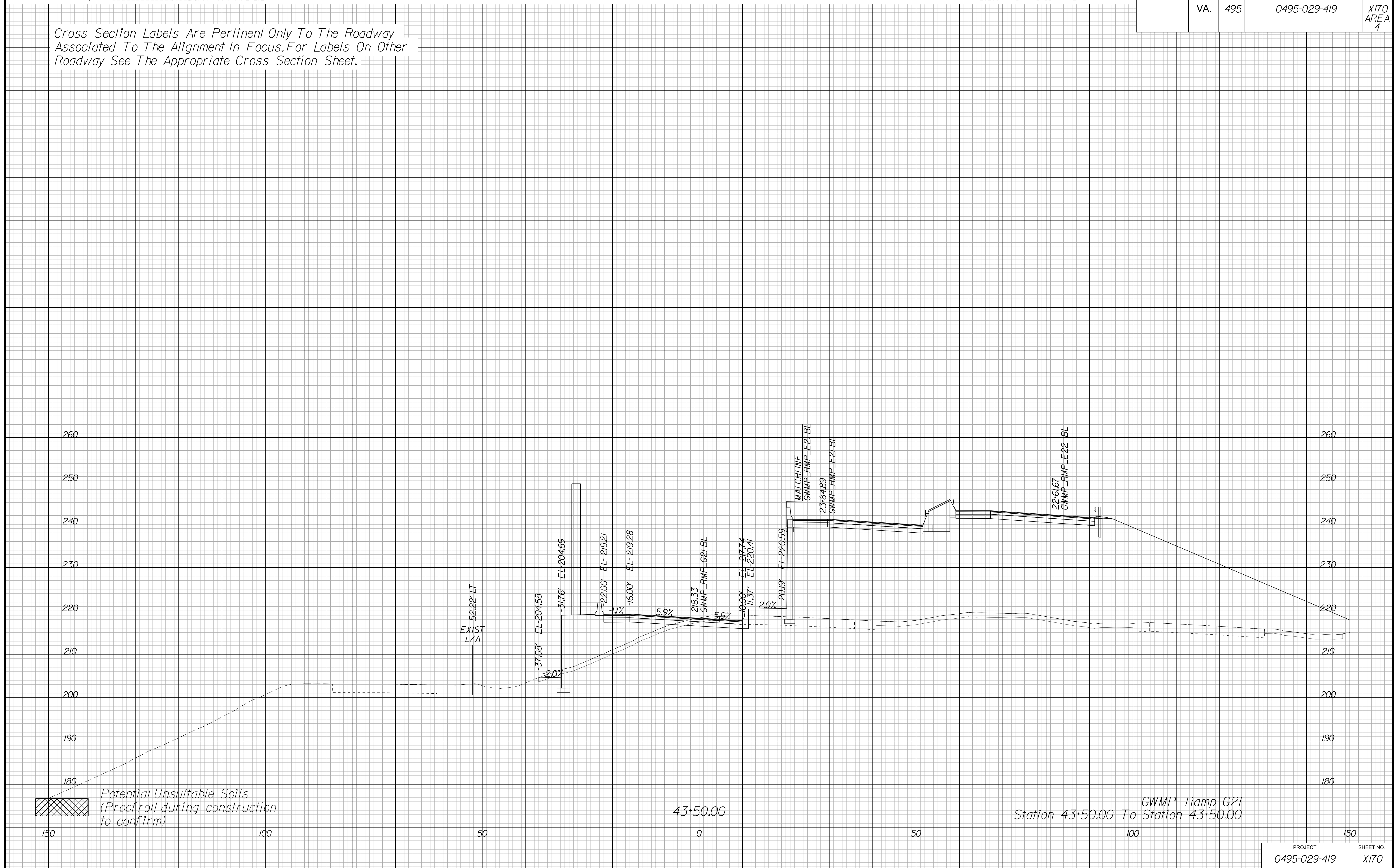
CROSS SECTIONS

SCALE 1 IN. = 10 FT

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

REVISED	STATE	ROUTE	STATE	PROJECT	SHEET NO.
	VA.	495		0495-029-419	X170 AREA 4

Cross Section Labels Are Pertinent Only To The Roadway Associated To The Alignment In Focus. For Labels On Other Roadway See The Appropriate Cross Section Sheet.



Station 43+50.00 To Station 43+50.00
GWMP Ramp G21

APPROVED FOR CONSTRUCTION

PROJECT	SHEET NO.
0495-029-419	X170

PROJECT MANAGER VDOT - Bimal Shah, PE, (703) 259-2362
SURVEYED BY, DATE BDA - Nicholas Kougoulis, LS, (703) 334-0837, 12/2021
DESIGN BY BDA - Darrell Eischer, BE, (703) 334-0823, Dawbercy - Ron Jakominich, PE, (703) 849-0651
SUBSURFACE UTILITY BY, DATE Accurmark - Michael Taylor, LS, (703) 635-3060, 12/2021

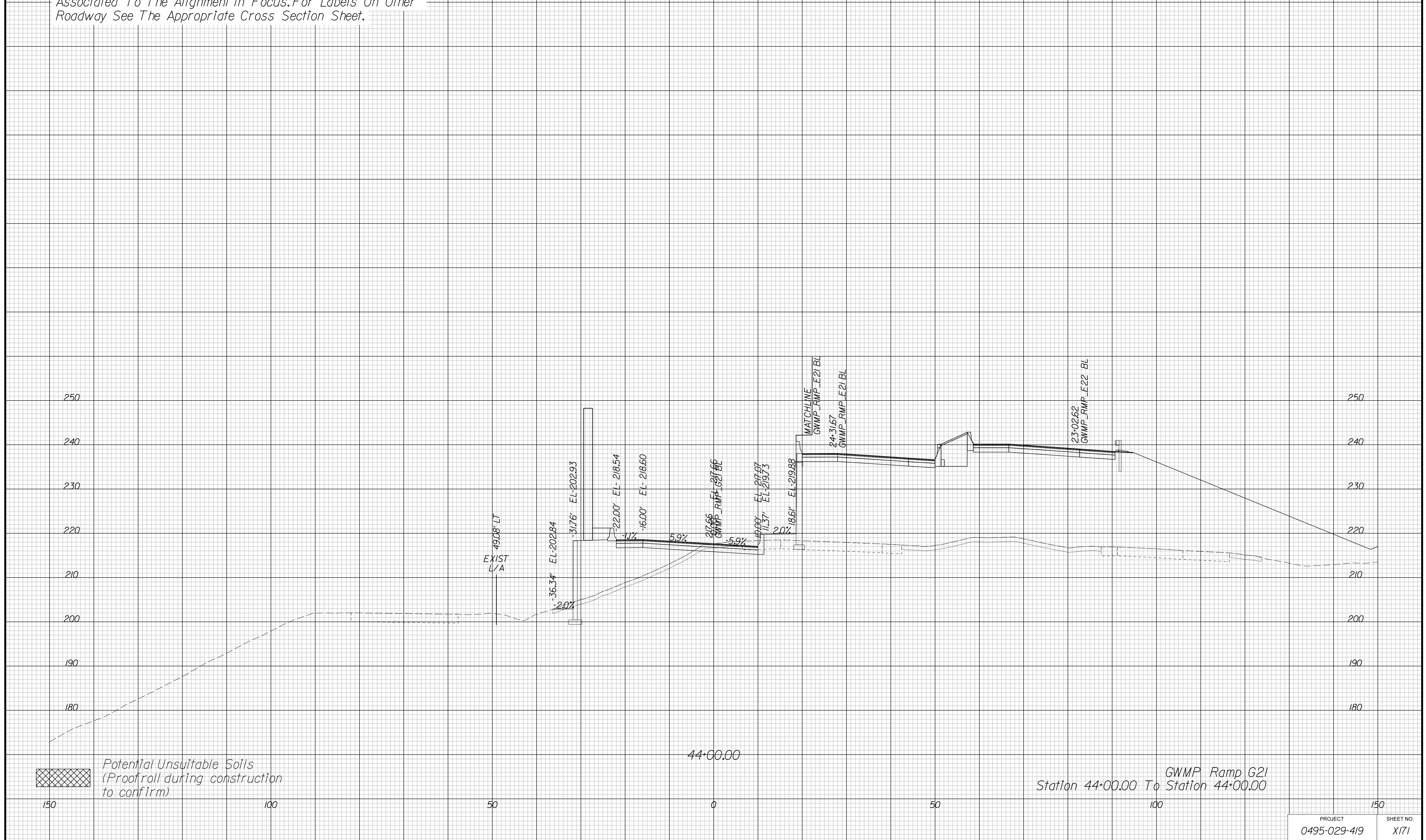
CROSS SECTIONS

SCALE 1 IN. = 10 FT

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

REVISED	STATE	ROUTE	STATE PROJECT	SHEET NO.
	VA.	495	0495-029-419	X171 AREA 4

Cross Section Labels Are Pertinent Only To The Roadway Associated To The Alignment In Focus. For Labels On Other Roadway See The Appropriate Cross Section Sheet.



 Potential Unsuitable Soils (Proofroll during construction to confirm)

GWMP Ramp G21
Station 44+00.00 To Station 44+00.00

PROJECT	SHEET NO.
0495-029-419	X171

APPROVED FOR CONSTRUCTION

PROJECT MANAGER VDOT - Bimal Shah PE (703) 259-2362
SURVEYED BY, DATE BDA - Nicholas Kougoulis LS (703) 334-0837, 12/2021
DESIGN BY BDA - Darrell Eischer BE (703) 334-0823, Dawberly - Ron Jakominich PE (703) 849-0651
SUBSURFACE UTILITY BY, DATE Accurmark - Michael Taylor LS (703) 635-3060, 12/2021

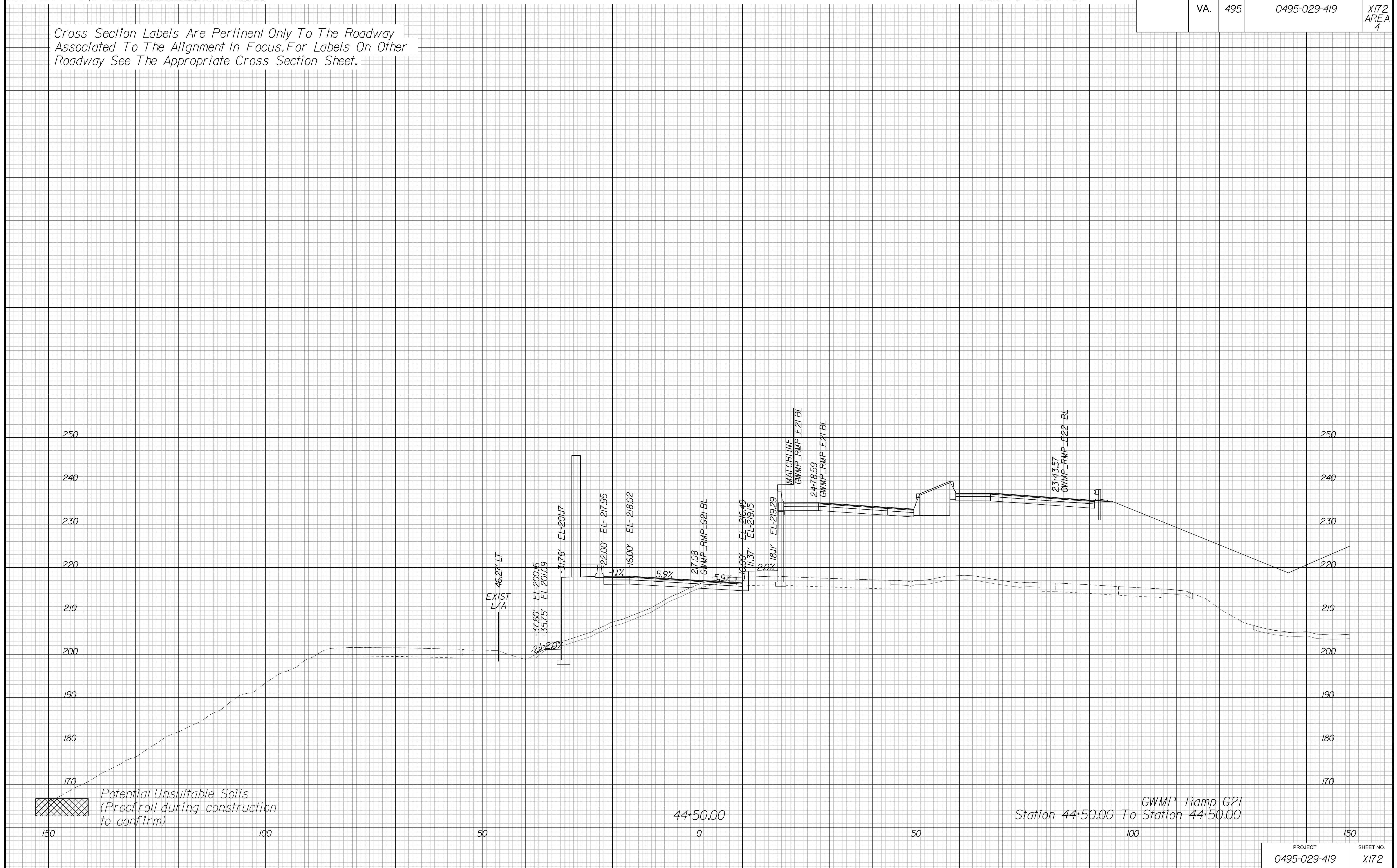
CROSS SECTIONS

SCALE 1 IN. = 10 FT

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

REVISED	STATE	ROUTE	STATE PROJECT	SHEET NO.
	VA.	495	0495-029-419	X172 AREA 4

Cross Section Labels Are Pertinent Only To The Roadway Associated To The Alignment In Focus. For Labels On Other Roadway See The Appropriate Cross Section Sheet.



Station 44+50.00 To Station 44+50.00
GWMP Ramp G21

PROJECT	SHEET NO.
0495-029-419	X172

APPROVED FOR CONSTRUCTION

PROJECT MANAGER VDOT - Bimal Shab PE (703) 259-2362
SURVEYED BY, DATE BDA - Nicholas Kougoulis LS (703) 334-0837, 12/2021
DESIGN BY BDA - Darrell Eischer BE (703) 334-0823, Dawberly - Ron Jakominich PE (703) 849-0651
SUBSURFACE UTILITY BY, DATE Accurmark - Michael Taylor LS (703) 635-3060, 12/2021

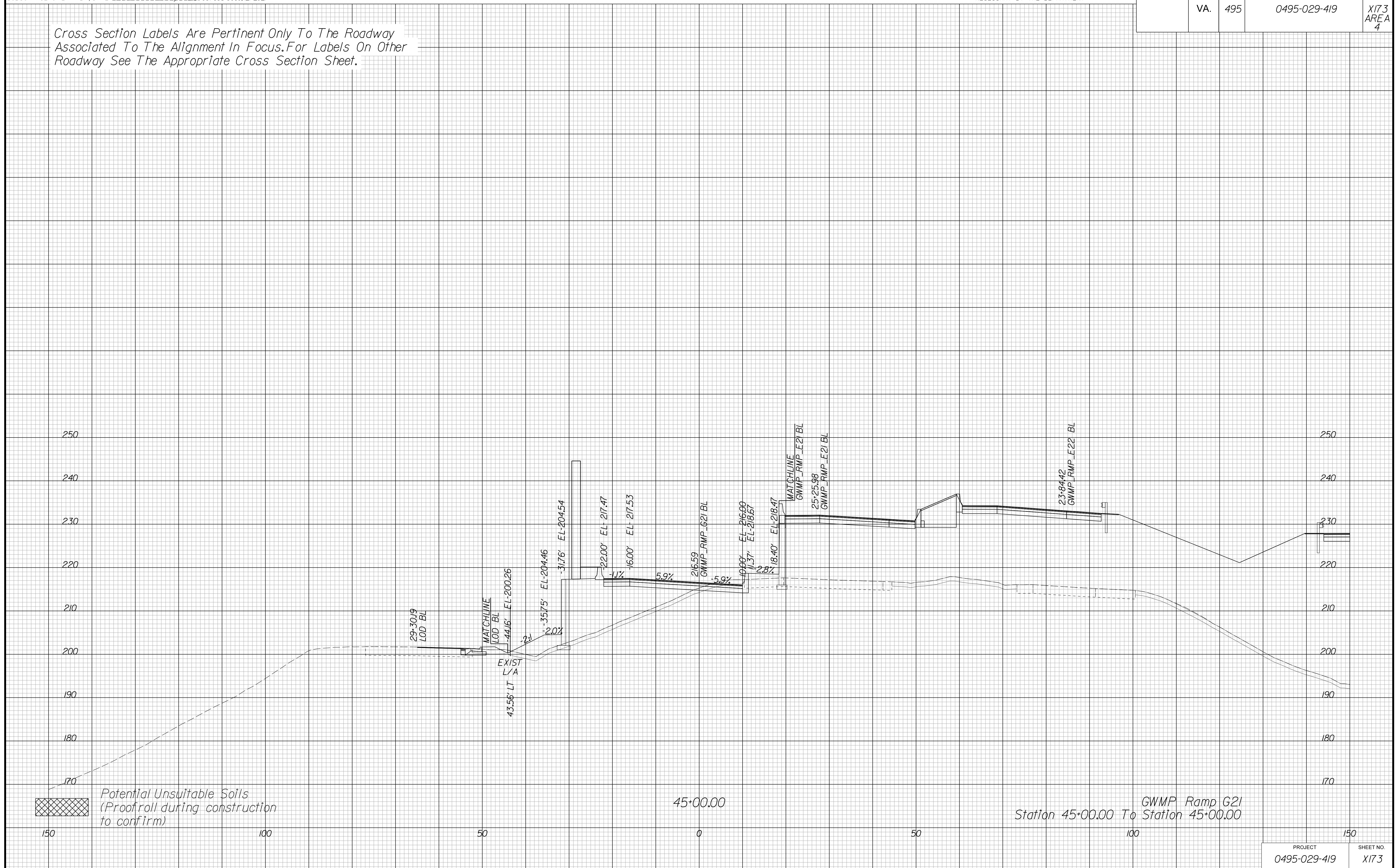
CROSS SECTIONS

SCALE 1 IN. = 10 FT

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

REVISED	STATE	ROUTE	STATE	PROJECT	SHEET NO.
	VA.	495		0495-029-419	X173 AREA 4

Cross Section Labels Are Pertinent Only To The Roadway Associated To The Alignment In Focus. For Labels On Other Roadway See The Appropriate Cross Section Sheet.



APPROVED FOR CONSTRUCTION

PROJECT	SHEET NO.
0495-029-419	X173

PROJECT MANAGER VDOT - Bimal Sab PE.(703) 259-2362
SURVEYED BY, DATE BDA - Nicholas Kougoulis LS.(703) 334-0837, 12/2021
DESIGN BY BDA - Darrell Eischer BE.(703) 334-0823, Dawbercy - Ron Jakominich PE.(703) 849-0651
SUBSURFACE UTILITY BY, DATE Accurmark - Michael Taylor LS.(703) 635-3060, 12/2021

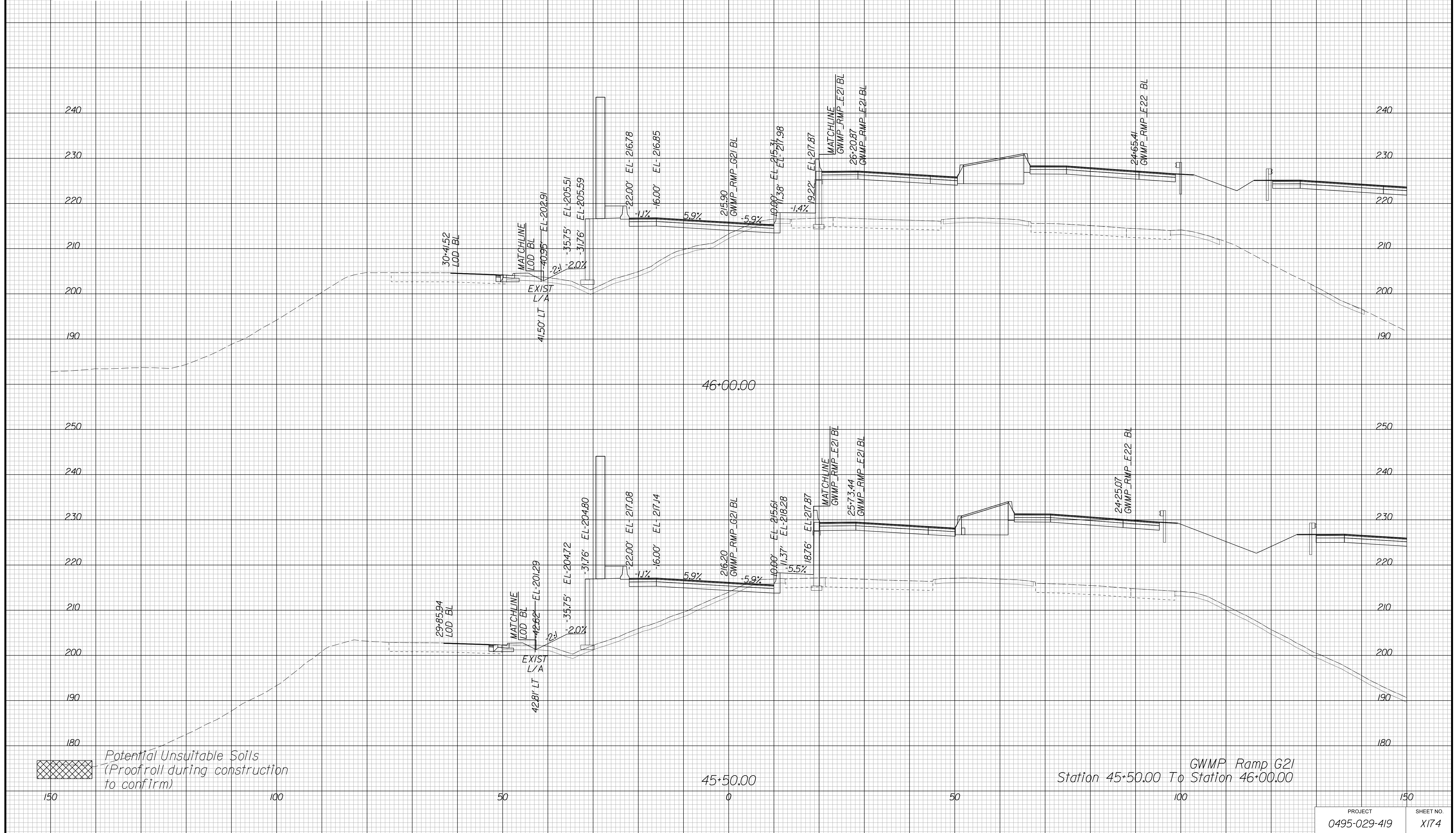
CROSS SECTIONS

SCALE 1 IN. = 10 FT

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

REVISED	STATE	ROUTE	STATE	PROJECT	SHEET NO.
	VA.	495		0495-029-419	X174 AREA 4

Cross Section Labels Are Pertinent Only To The Roadway Associated To The Alignment In Focus. For Labels On Other Roadway See The Appropriate Cross Section Sheet.



APPROVED FOR CONSTRUCTION

PROJECT MANAGER VDOT - Bipal Shah PE (703) 259-2362
SURVEYED BY DATE BDA - Nicholas Kougoullis LS (703) 334-0837, 12/2021
DESIGN BY BDA - Darrell Eischer BE (703) 334-0823, Dawbercy - Ron Jakominich PE (703) 849-0651
SUBSURFACE UTILITY BY DATE Accurmark - Michael Taylor LS (703) 635-3060, 12/2021

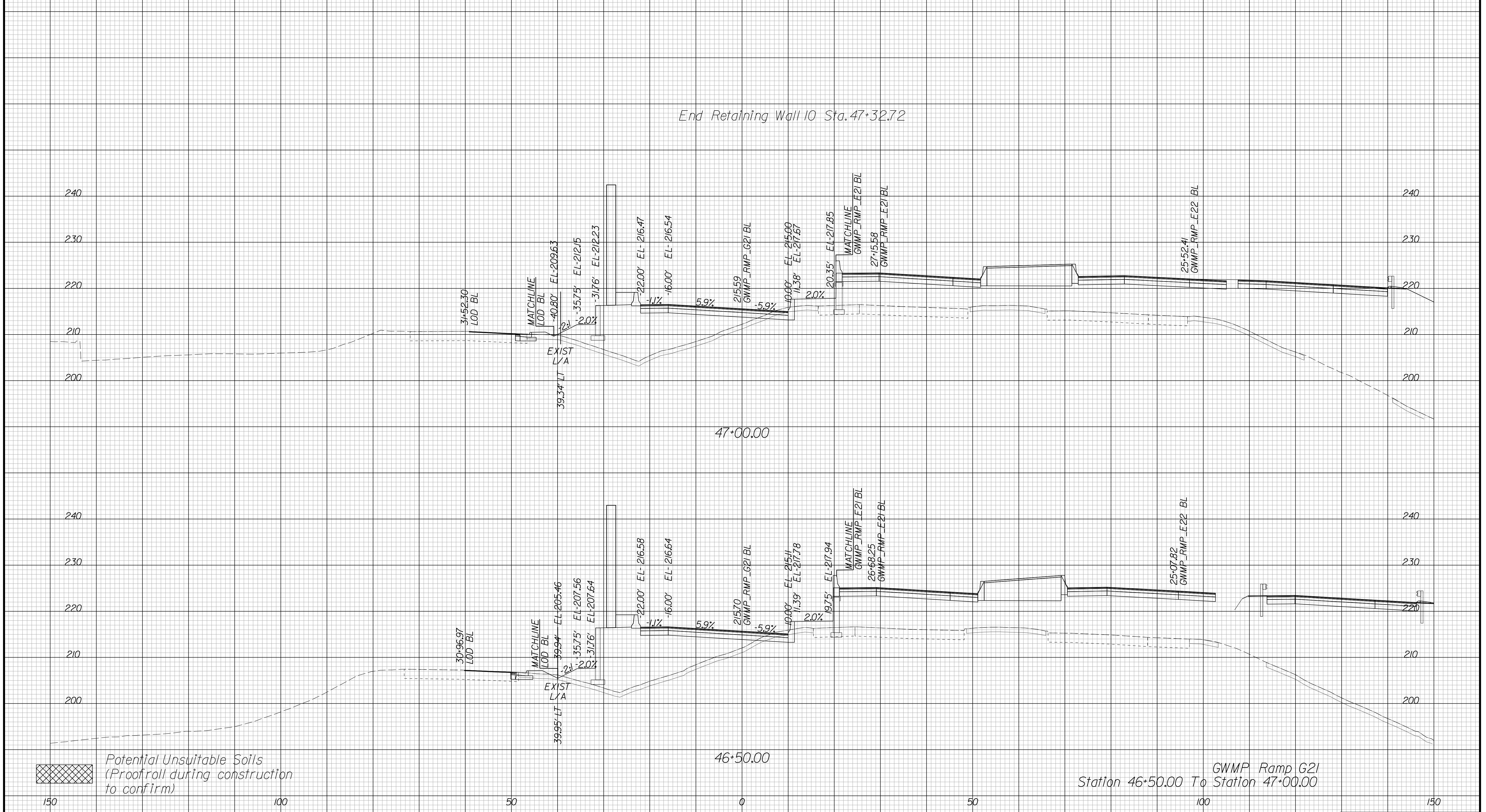
CROSS SECTIONS

SCALE 1 IN. = 10 FT

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

REVISED	STATE	ROUTE	STATE	PROJECT	SHEET NO.
	VA.	495		0495-029-419	X175 AREA 4

Cross Section Labels Are Pertinent Only To The Roadway Associated To The Alignment In Focus. For Labels On Other Roadway See The Appropriate Cross Section Sheet.



Potential Unsuitable Soils (Proofroll during construction to confirm)

APPROVED FOR CONSTRUCTION

PROJECT MANAGER VDOT - Bimal Sab PE, (703) 259-2362
SURVEYED BY, DATE BDA - Nicholas Kougoulis LS, (703) 334-0837, 12/2021
DESIGN BY BDA - Darrell Eischer BE, (703) 334-0823, Dawbercy - Ron Jakominich PE, (703) 849-0651
SUBSURFACE UTILITY BY, DATE Accurmark - Michael Taylor LS, (703) 635-3060, 12/2021

CROSS SECTIONS

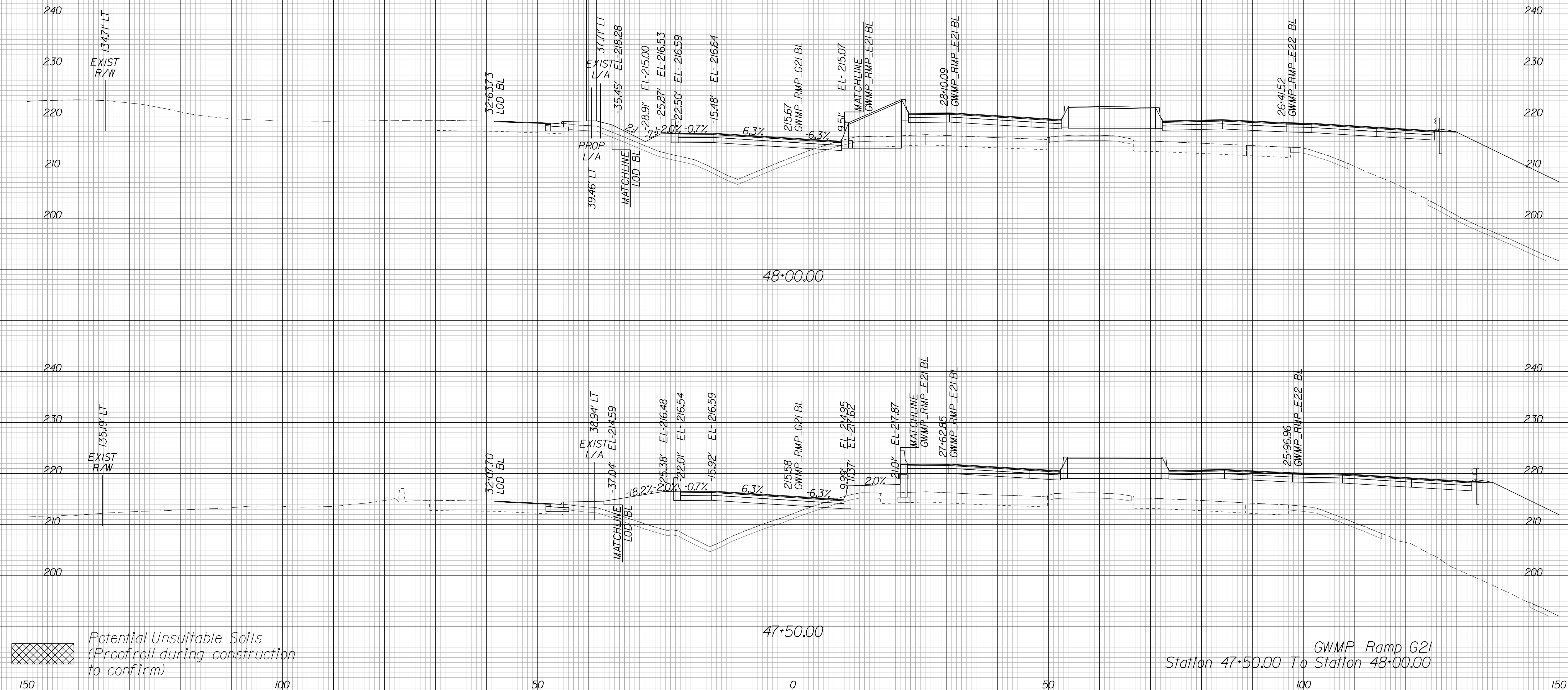
SCALE 1 IN. = 10 FT

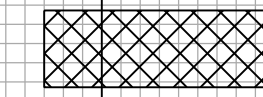
DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT

REVISED	STATE	ROUTE	STATE	PROJECT	SHEET NO.
	VA.	495		0495-029-419	X176 AREA 4

Cross Section Labels Are Pertinent Only To The Roadway Associated To The Alignment In Focus. For Labels On Other Roadway See The Appropriate Cross Section Sheet.

Begin Retaining Wall 38 Sta. 48+22.61



 Potential Unsuitable Soils (Proofroll during construction to confirm)

GWMP Ramp G21
Station 47+50.00 To Station 48+00.00

PROJECT	SHEET NO.
0495-029-419	X176

APPROVED FOR CONSTRUCTION

PROJECT MANAGER VDOT - Bimbal Sab PE.(703) 259-2362
SURVEYED BY, DATE BDA - Nicholas Kougoulis LS.(703) 334-0837, 12/2021
DESIGN BY BDA - Darell Eischer BE.(703) 334-0823, Dawbergy - Ron Jakominich PE.(703) 849-0651
SUBSURFACE UTILITY BY, DATE Accurmark - Michael Taylor LS.(703) 635-3060, 12/2021

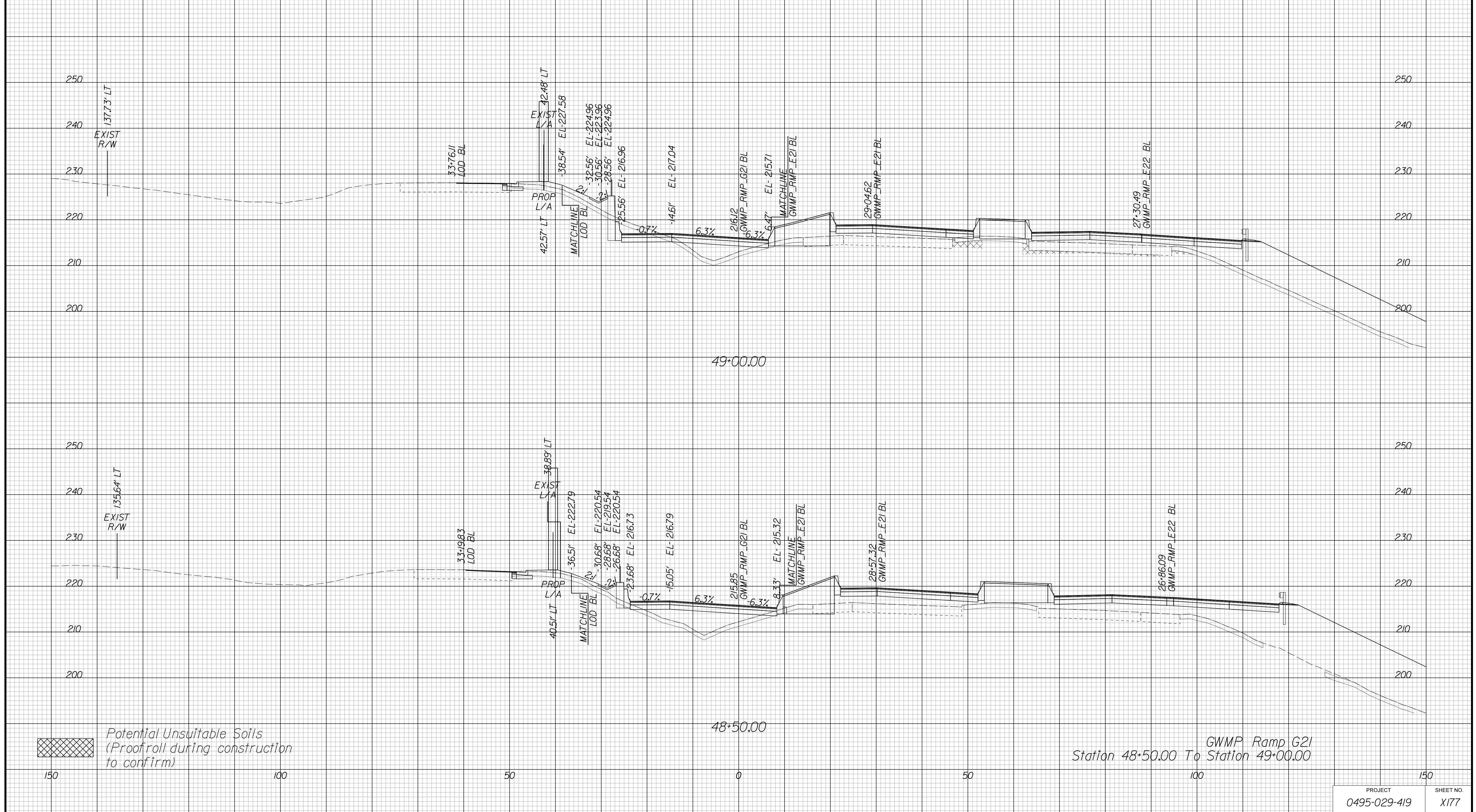
CROSS SECTIONS

SCALE 1 IN. = 10 FT

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

REVISED	STATE	ROUTE	STATE	PROJECT	SHEET NO.
	VA.	495		0495-029-419	X177 AREA 4

Cross Section Labels Are Pertinent Only To The Roadway Associated To The Alignment In Focus. For Labels On Other Roadway See The Appropriate Cross Section Sheet.



GWMP Ramp G21
Station 48+50.00 To Station 49+00.00

Potential Unsuitable Soils (Proofroll during construction to confirm)

PROJECT	SHEET NO.
0495-029-419	X177

APPROVED FOR CONSTRUCTION

PROJECT MANAGER VDOT - Bimal Shah PE (703) 259-2362
SURVEYED BY DATE BDA - Nicholas Kougoulis LS (703) 334-0837, 12/2021
DESIGN BY BDA - Darrell Eischer BE (703) 334-0823, Dawbergy - Ron Jakominich PE (703) 849-0651
SUBSURFACE UTILITY BY DATE Accurmark - Michael Taylor LS (703) 635-3060, 12/2021

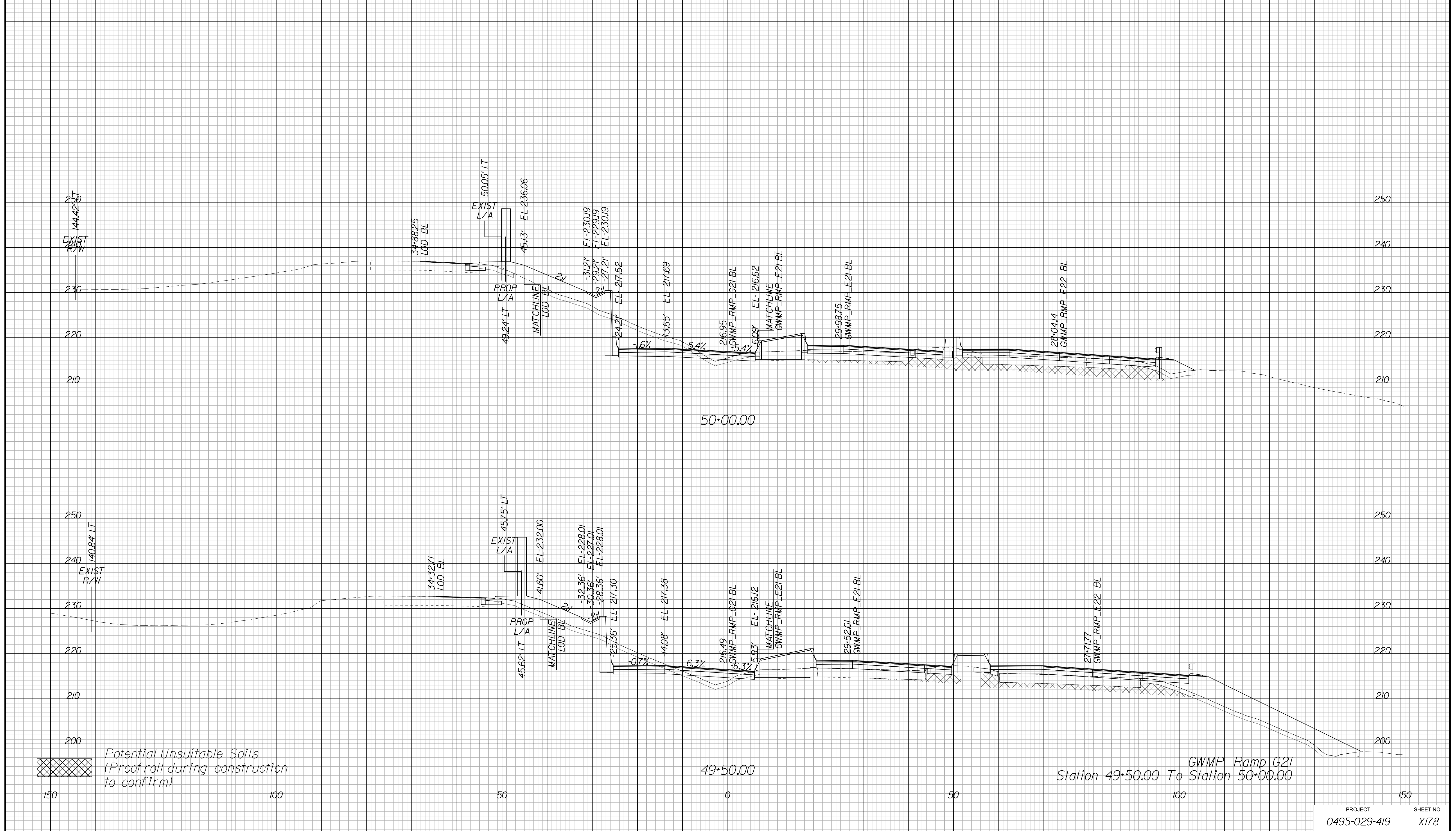
CROSS SECTIONS

SCALE 1 IN. = 10 FT

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

REVISED	STATE	ROUTE	STATE PROJECT	SHEET NO.
	VA.	495	0495-029-419	X178 AREA 4

Cross Section Labels Are Pertinent Only To The Roadway Associated To The Alignment In Focus. For Labels On Other Roadway See The Appropriate Cross Section Sheet.



APPROVED FOR CONSTRUCTION

PROJECT MANAGER VDOT - Bimal Shab PE (703) 259-2362
SURVEYED BY DATE BDA - Nicholas Kougoulis LS (703) 334-0837, 12/2021
DESIGN BY BDA - Darrell Elischer BE (703) 334-0823, Dawberly - Ron Jakominich PE (703) 849-0651
SUBSURFACE UTILITY BY DATE Accurmark - Michael Taylor LS (703) 635-3060, 12/2021

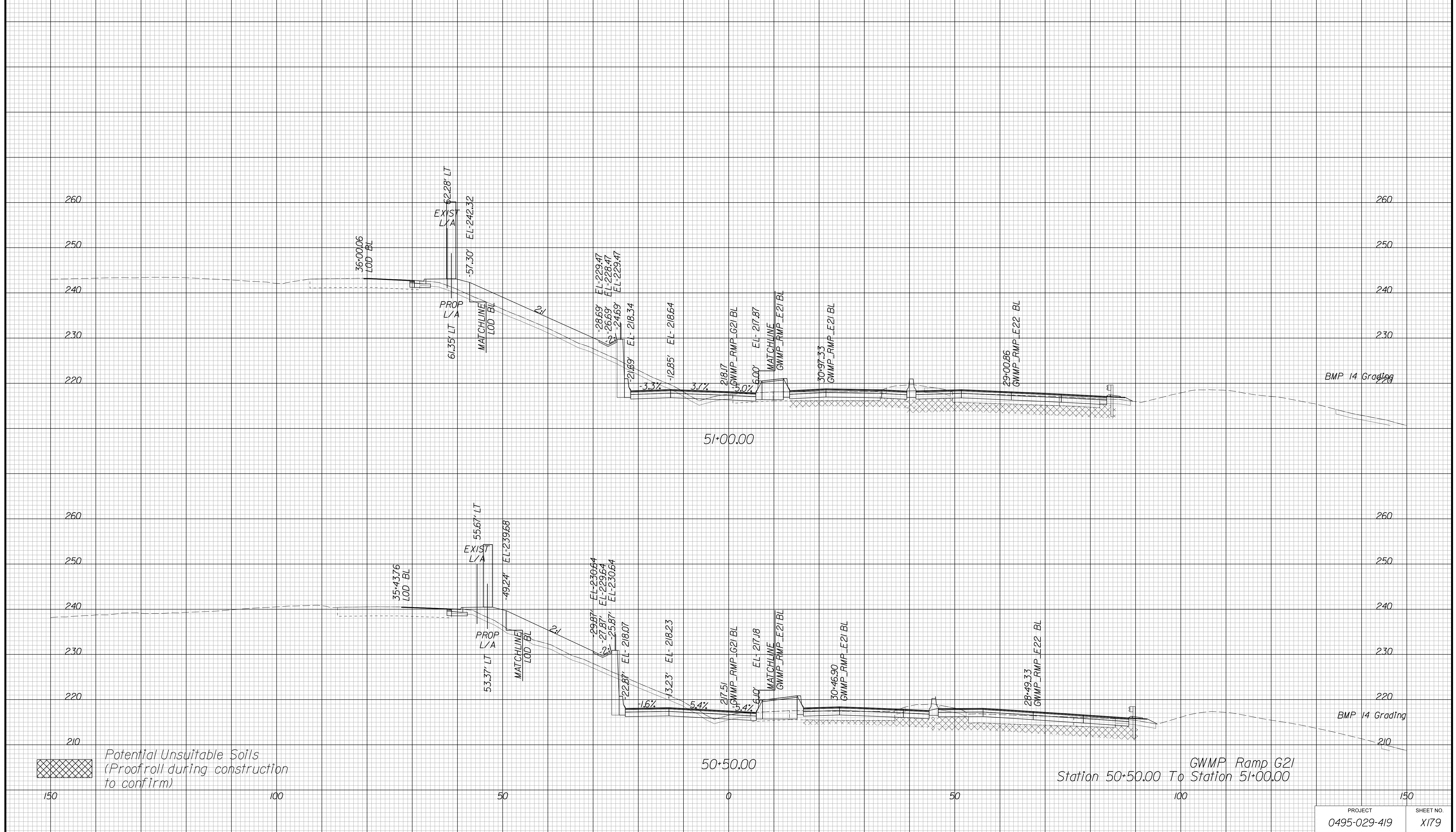
CROSS SECTIONS

SCALE 1 IN. = 10 FT

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

REVISED	STATE	ROUTE	STATE PROJECT	SHEET NO.
	VA.	495	0495-029-419	X179 AREA 4

Cross Section Labels Are Pertinent Only To The Roadway Associated To The Alignment In Focus. For Labels On Other Roadway See The Appropriate Cross Section Sheet.



APPROVED FOR CONSTRUCTION

PROJECT MANAGER VDOT - Bimal Saha, PE, (703) 259-2362
SURVEYED BY, DATE BDA - Nicholas Kougoulis, LS, (703) 334-0837, 12/2021
DESIGN BY BDA - Darrell Eischer, BE, (703) 334-0823, Dawberly - Ron Jakominich, PE, (703) 849-0651
SUBSURFACE UTILITY BY, DATE Accurmark - Michael Taylor, LS, (703) 635-3060, 12/2021

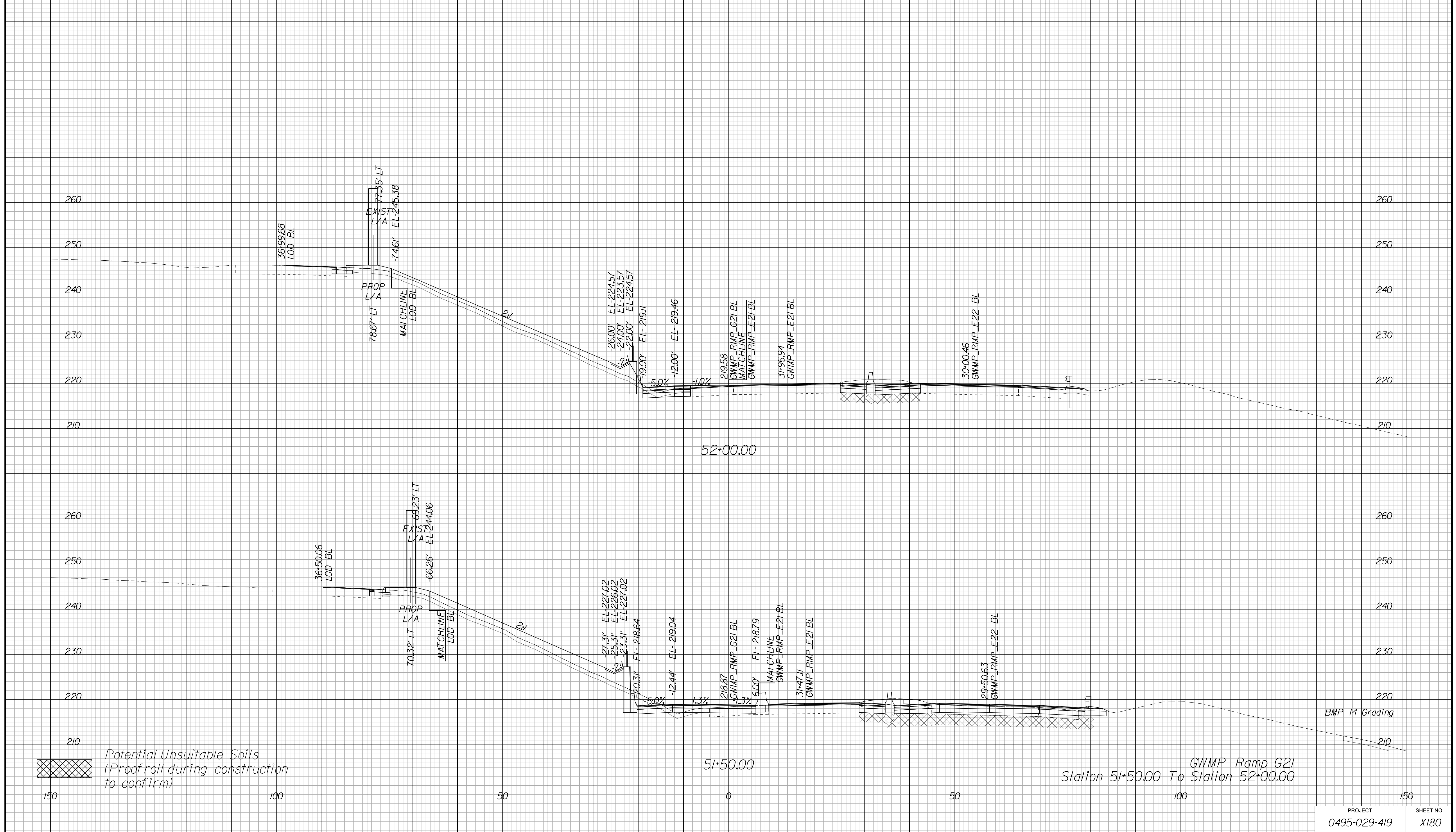
CROSS SECTIONS

SCALE 1 IN. = 10 FT

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

REVISED	STATE	ROUTE	STATE PROJECT	SHEET NO.
	VA.	495	0495-029-419	X180 AREA 4

Cross Section Labels Are Pertinent Only To The Roadway Associated To The Alignment In Focus. For Labels On Other Roadway See The Appropriate Cross Section Sheet.



APPROVED FOR CONSTRUCTION

PROJECT MANAGER VDOT - Bimal Shab PE (703) 259-2362
SURVEYED BY DATE BDA - Nicholas Kougoulis LS (703) 334-0837, 12/2021
DESIGN BY BDA - Darell Eischer BE (703) 334-0823, Dawberly - Ron Jakominich PE (703) 849-0651
SUBSURFACE UTILITY BY DATE Accumark - Michael Taylor LS (703) 635-3060, 12/2021

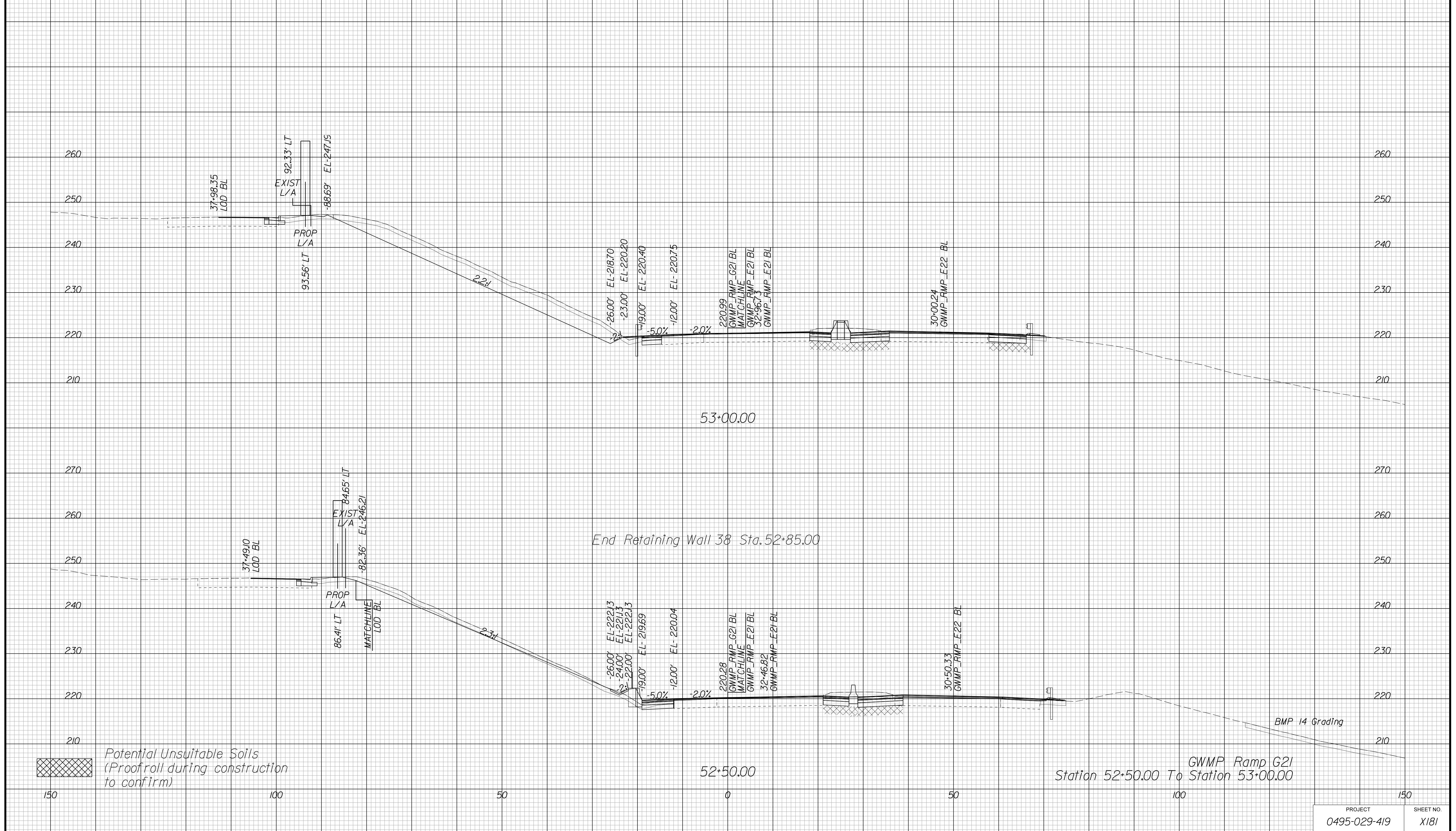
CROSS SECTIONS

SCALE 1 IN. = 10 FT

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

REVISED	STATE	ROUTE	STATE PROJECT	SHEET NO.
	VA.	495	0495-029-419	X181 AREA 4

Cross Section Labels Are Pertinent Only To The Roadway Associated To The Alignment In Focus. For Labels On Other Roadway See The Appropriate Cross Section Sheet.



Potential Unsuitable Soils (Proofroll during construction to confirm)

End Retaining Wall 38 Sta. 52+85.00

Station 52+50.00 To Station 53+00.00
GWMP Ramp G21

APPROVED FOR CONSTRUCTION

PROJECT MANAGER VDOT - Bimal Sab PE.(703) 259-2362
SURVEYED BY, DATE BDA - Nicholas Kougoulis LS.(703) 334-0837,12/2021
DESIGN BY BDA - Darrell Elischer BE.(703) 334-0823, Dexberry - Ron Jakominich PE.(703) 849-0651
SUBSURFACE UTILITY BY, DATE Accurmark - Michael Taylor LS.(703) 635-3060,12/2021

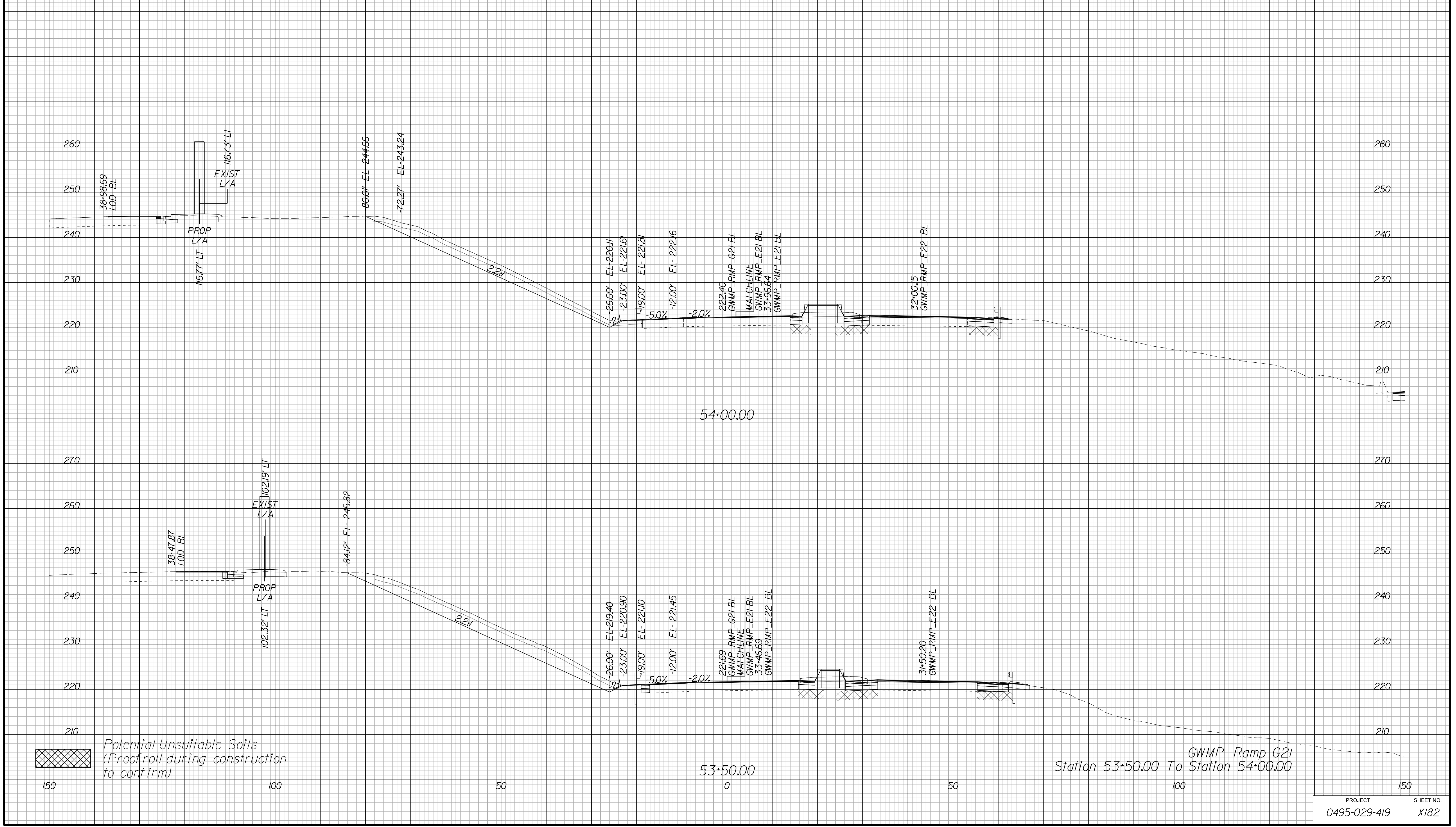
CROSS SECTIONS

SCALE 1 IN. = 10 FT

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

REVISED	STATE	ROUTE	STATE PROJECT	SHEET NO.
	VA.	495	0495-029-419	X182 AREA 4

Cross Section Labels Are Pertinent Only To The Roadway Associated To The Alignment In Focus. For Labels On Other Roadway See The Appropriate Cross Section Sheet.



Potential Unsuitable Soils (Proofroll during construction to confirm)

GWMP Ramp G21
Station 53+50.00 To Station 54+00.00

APPROVED FOR CONSTRUCTION

PROJECT MANAGER VDOT - Bimal Sab PE (703) 259-2362
SURVEYED BY DATE BDA - Nicholas Kougoulis LS (703) 334-0837, 12/2021
DESIGN BY BDA - Darrell Elischer BE (703) 334-0823, Dawberly - Ron Jakominich PE (703) 849-0651
SUBSURFACE UTILITY BY DATE Accumark - Michael Taylor LS (703) 635-3060, 12/2021

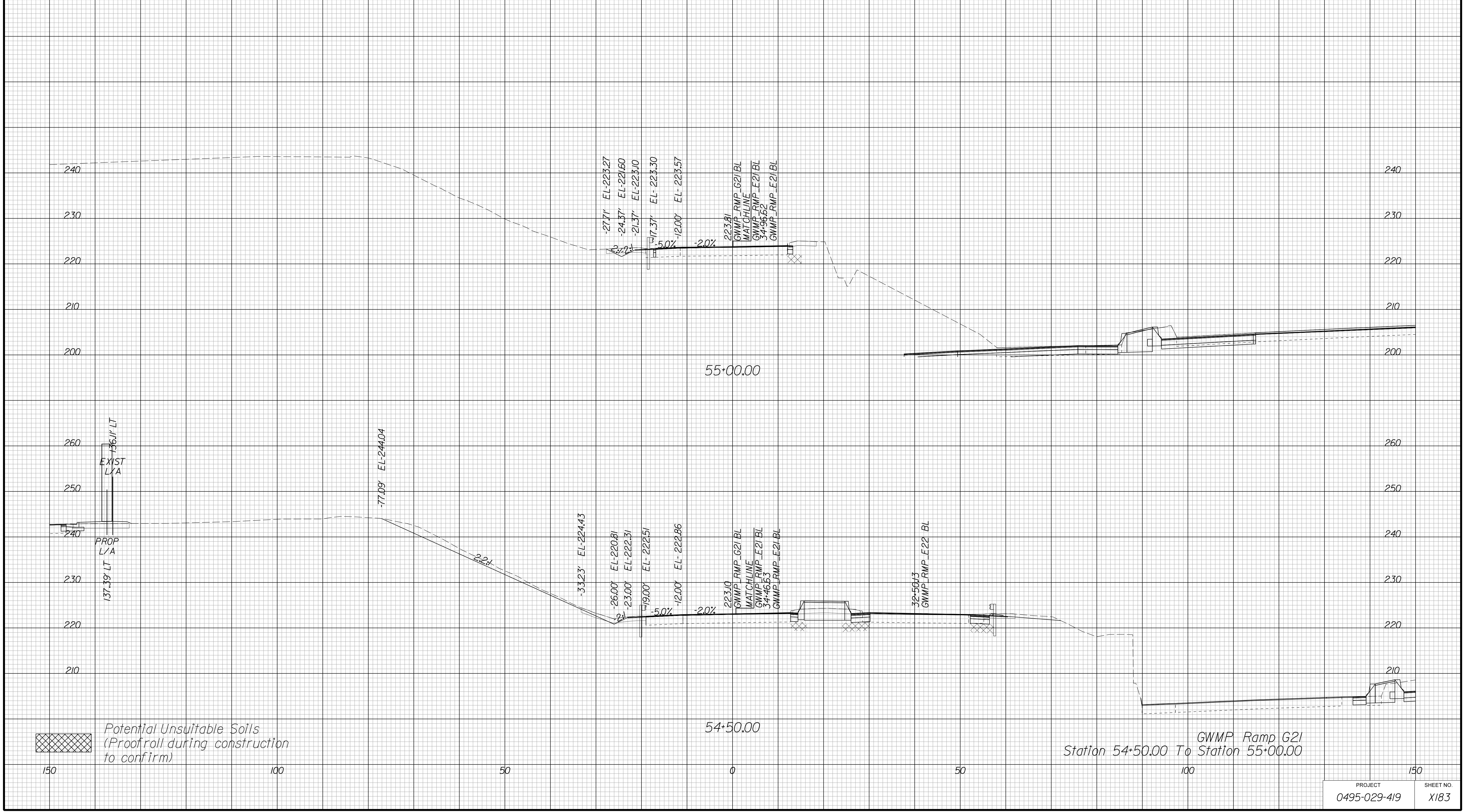
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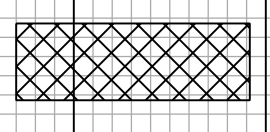
SCALE 1 IN. = 10 FT

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

REVISED	STATE	ROUTE	STATE PROJECT	SHEET NO.
	VA.	495	0495-029-419	X183 AREA 4

Cross Section Labels Are Pertinent Only To The Roadway Associated To The Alignment In Focus. For Labels On Other Roadway See The Appropriate Cross Section Sheet.



 Potential Unsuitable Soils
(Proofroll during construction to confirm)

GWMP Ramp G21
Station 54+50.00 To Station 55+00.00

PROJECT	SHEET NO.
0495-029-419	X183

APPROVED FOR CONSTRUCTION

PROJECT MANAGER VDOT - Bipal Shah PE (703) 259-2362
SURVEYED BY, DATE BDA - Nicholas Kougoulis LS (703) 334-0837, 12/2021
DESIGN BY BDA - Darrell Eischer BE (703) 334-0823, Dawberly - Ron Jakominich PE (703) 849-0651
SUBSURFACE UTILITY BY, DATE Accurmark - Michael Taylor LS (703) 635-3060, 12/2021

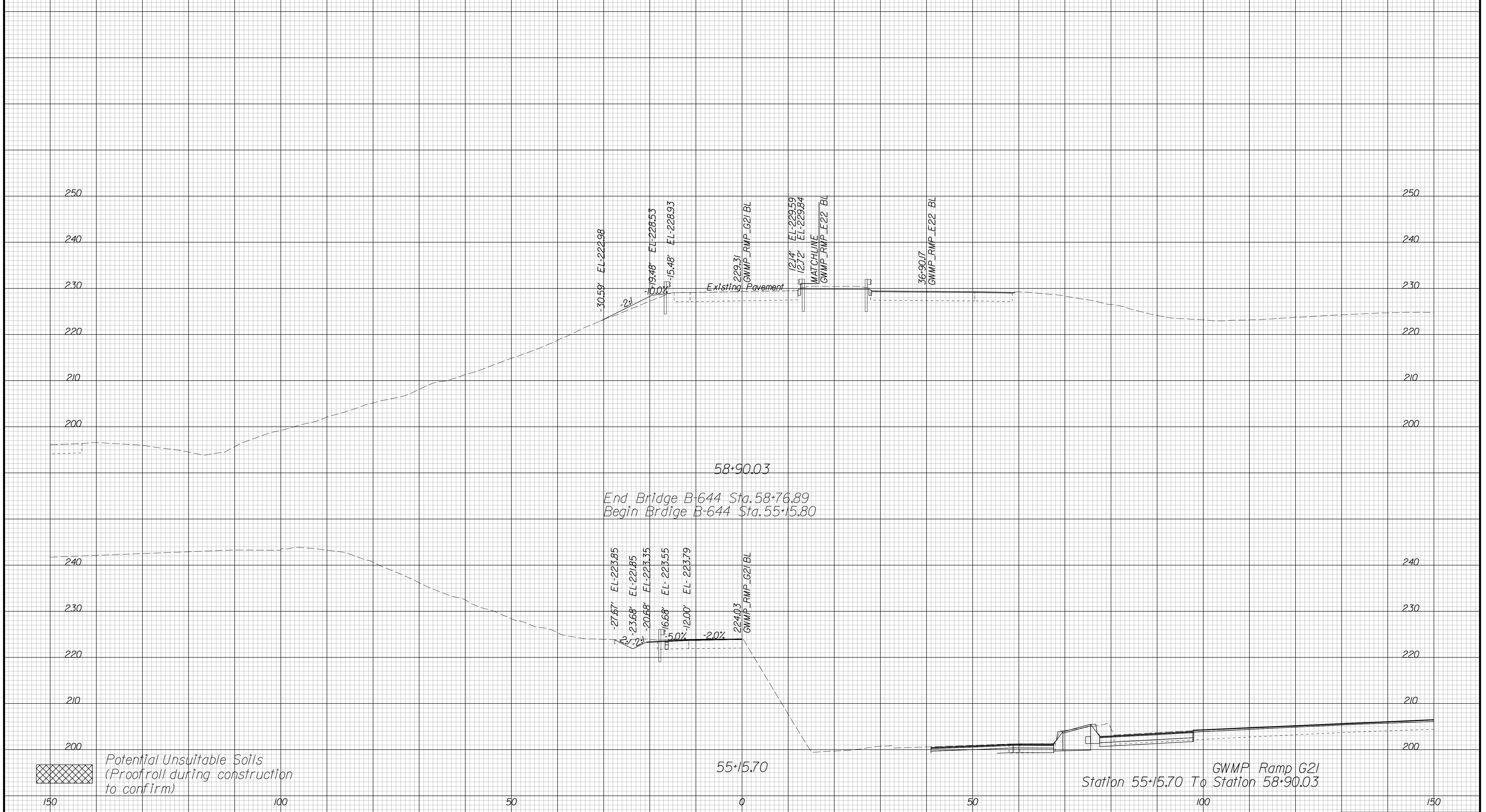
CROSS SECTIONS

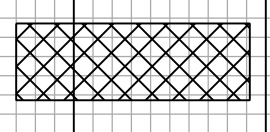
SCALE 1 IN. = 10 FT

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

REVISED	STATE	ROUTE	STATE	PROJECT	SHEET NO.
	VA.	495		0495-029-419	X184 AREA 4

Cross Section Labels Are Pertinent Only To The Roadway Associated To The Alignment In Focus. For Labels On Other Roadway See The Appropriate Cross Section Sheet.



 Potential Unsuitable Soils
(Proofroll during construction to confirm)

GWMP Ramp G21
Station 55+15.70 To Station 58+90.03

PROJECT	SHEET NO.
0495-029-419	X184

APPROVED FOR CONSTRUCTION

PROJECT MANAGER VDOT - Bimal Shah, PE, (703) 259-2362
SURVEYED BY, DATE BDA - Nicholas Kougoulis, LS, (703) 334-0837, 12/2021
DESIGN BY BDA - Darrell Eischer, BE, (703) 334-0823, Dawberly - Ron Jakominich, PE, (703) 849-0651
SUBSURFACE UTILITY BY, DATE Accurmark - Michael Taylor, LS, (703) 635-3060, 12/2021

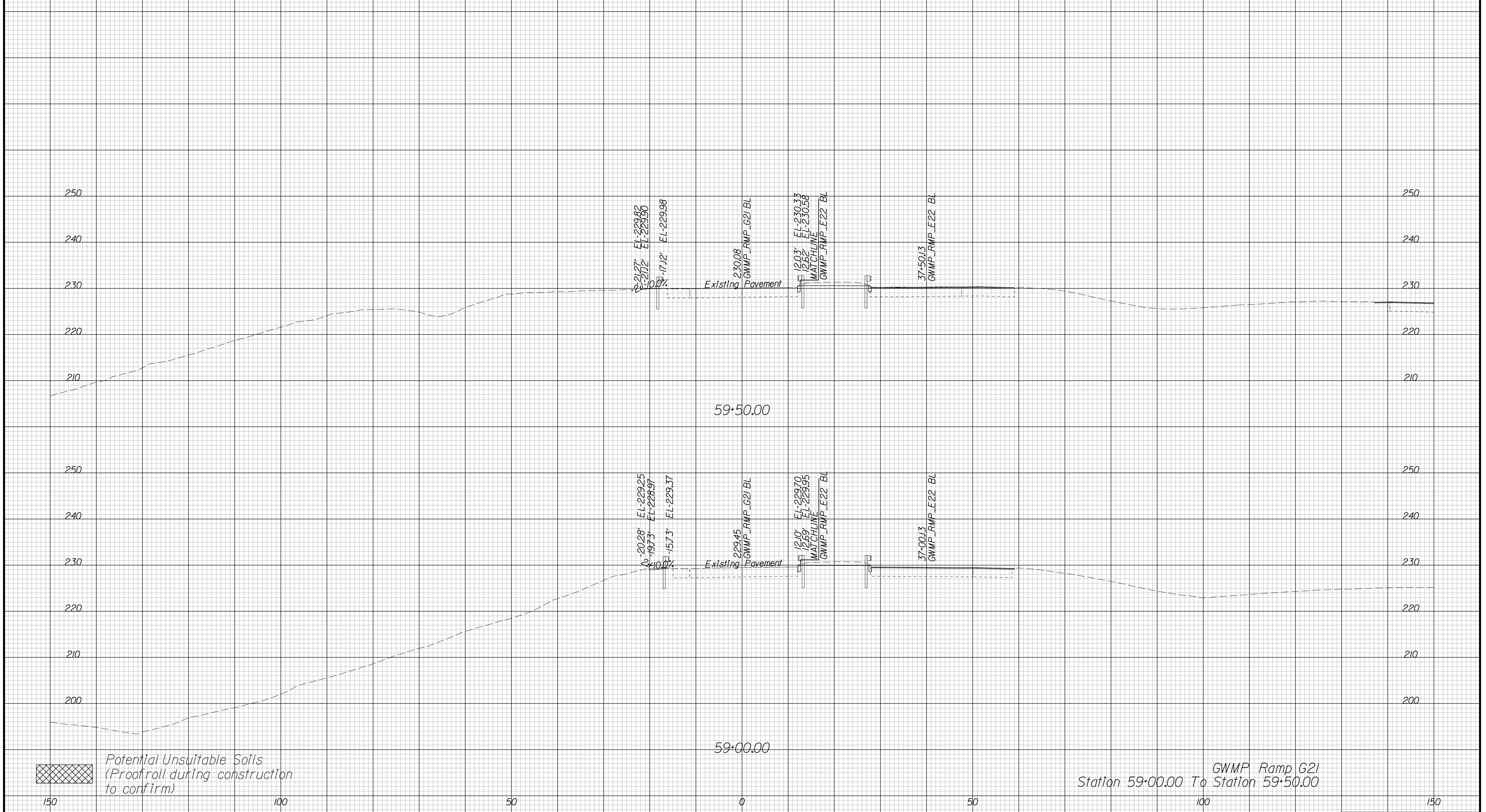
CROSS SECTIONS

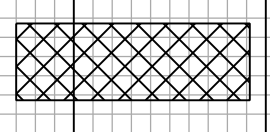
SCALE 1 IN. = 10 FT

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

REVISED	STATE	ROUTE	STATE	PROJECT	SHEET NO.
	VA.	495		0495-029-419	X185 AREA 4

Cross Section Labels Are Pertinent Only To The Roadway Associated To The Alignment In Focus. For Labels On Other Roadway See The Appropriate Cross Section Sheet.



 Potential Unsuitable Soils (Proofroll during construction to confirm)

Station 59+00.00 To Station 59+50.00 GWMP Ramp G21

APPROVED FOR CONSTRUCTION

PROJECT MANAGER VDOT - Bimal Shab PE (703) 259-2362
SURVEYED BY, DATE BDA - Nicholas Kougoulis LS (703) 334-0837, 12/2021
DESIGN BY BDA - Darrell Eischer BE (703) 334-0823, Dewberry - Ron Jakominich PE (703) 849-0651
SUBSURFACE UTILITY BY, DATE Accurmark - Michael Taylor LS (703) 635-3060, 12/2021

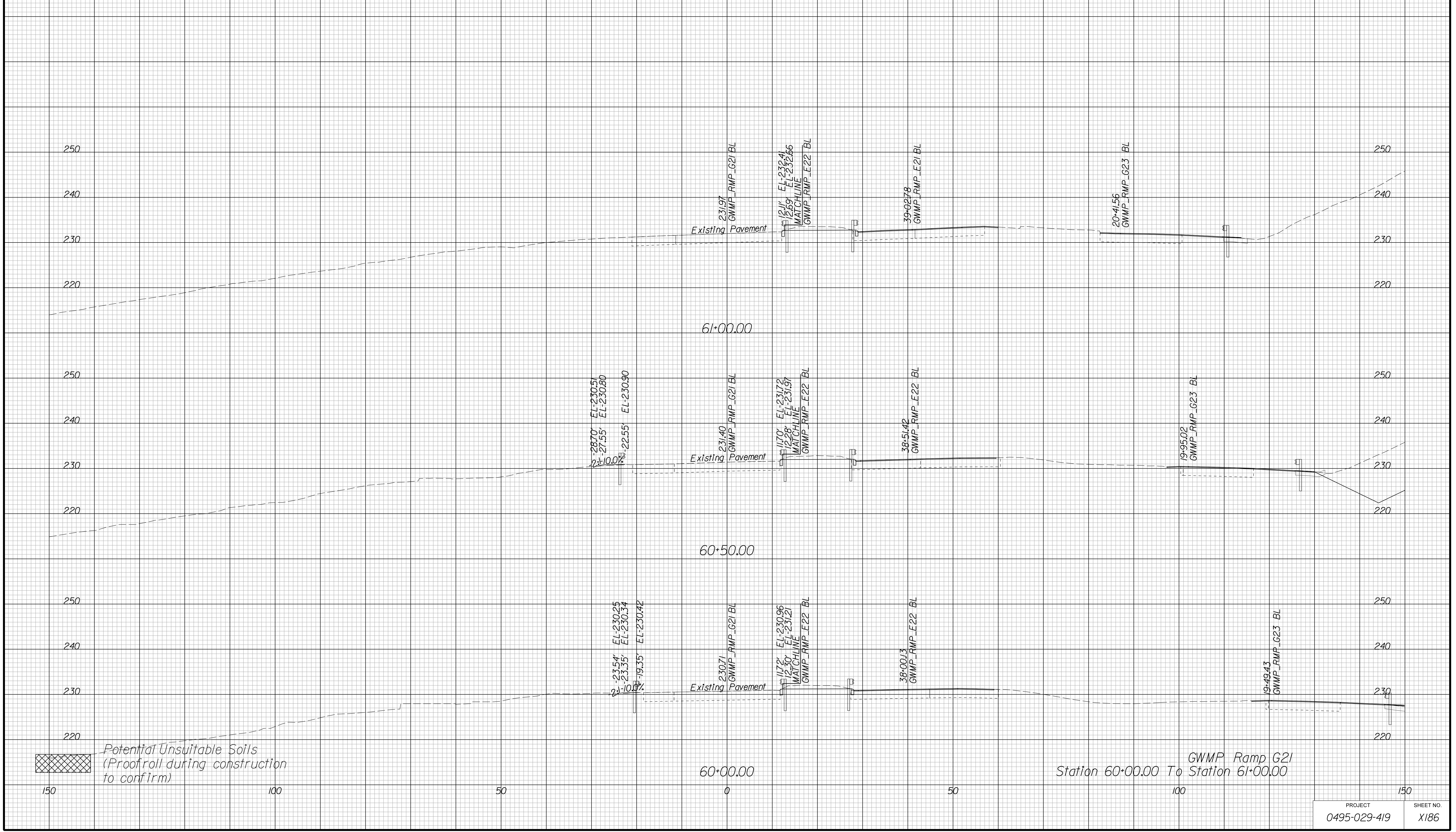
CROSS SECTIONS

SCALE 1 IN. = 10 FT

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

REVISED	STATE	ROUTE	STATE	PROJECT	SHEET NO.
	VA.	495		0495-029-419	X186 AREA 4

Cross Section Labels Are Pertinent Only To The Roadway Associated To The Alignment In Focus. For Labels On Other Roadway See The Appropriate Cross Section Sheet.



APPROVED FOR CONSTRUCTION

PROJECT MANAGER VDOT - Bimal Shah, PE, (703) 259-2362
SURVEYED BY, DATE BDA - Nicholas Kougoulis, LS, (703) 334-0837, 12/2021
DESIGN BY BDA - Darrell Eischer, BE, (703) 334-0823, Dawbercy - Ron Jakominich, PE, (703) 849-0651
SUBSURFACE UTILITY BY, DATE Accurmark - Michael Taylor, LS, (703) 635-3060, 12/2021

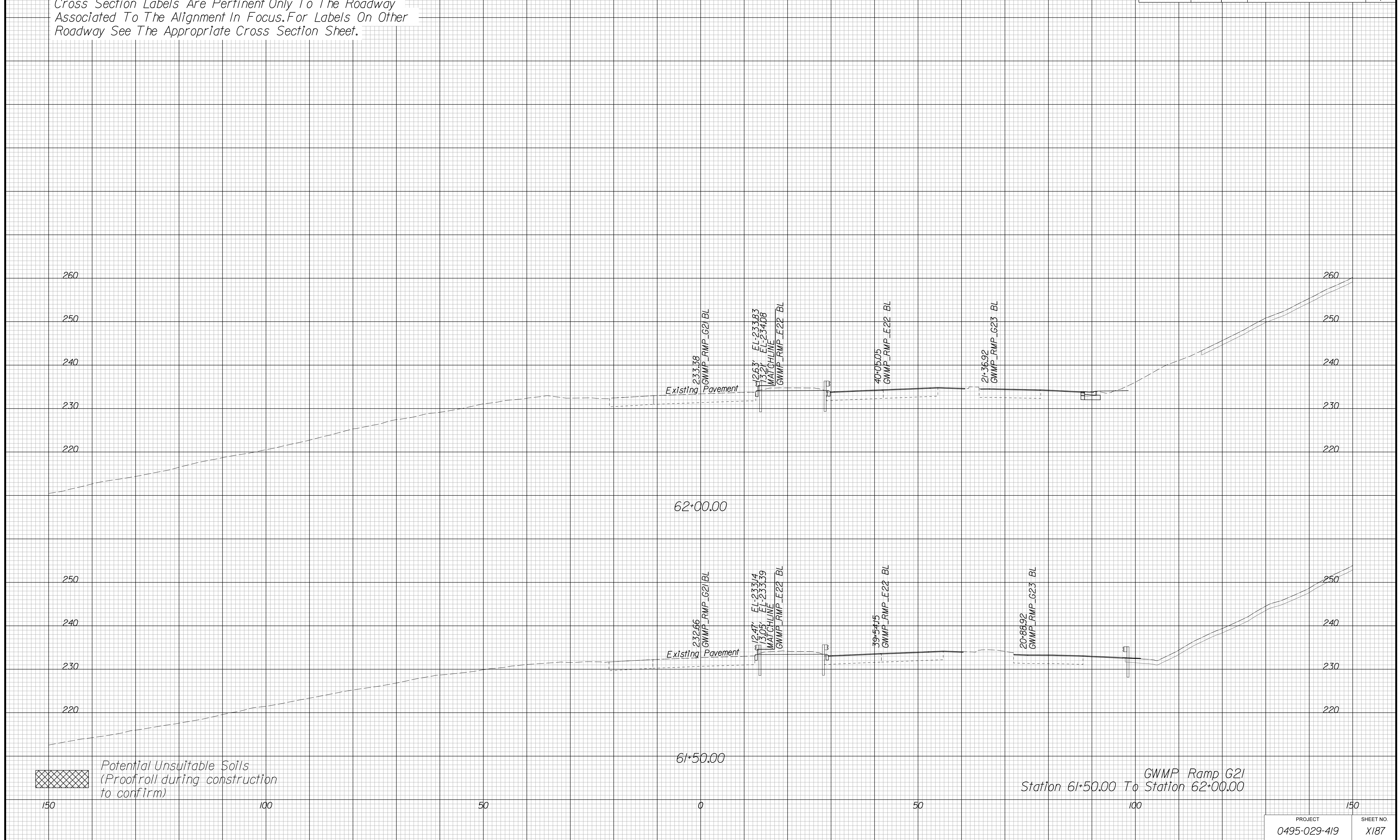
CROSS SECTIONS

SCALE 1 IN. = 10 FT

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

REVISED	STATE	ROUTE	STATE	PROJECT	SHEET NO.
	VA.	495		0495-029-419	X187 AREA 4

Cross Section Labels Are Pertinent Only To The Roadway Associated To The Alignment In Focus. For Labels On Other Roadway See The Appropriate Cross Section Sheet.



 Potential Unsuitable Soils
(Proofroll during construction to confirm)

GWMP Ramp G21
Station 61+50.00 To Station 62+00.00

PROJECT	SHEET NO.
0495-029-419	X187

APPROVED FOR CONSTRUCTION

PROJECT MANAGER VDOT - Bimal Shah, PE, (703) 259-2362
SURVEYED BY, DATE BDA - Nicholas Kougoulis, LS, (703) 334-0837, 12/2021
DESIGN BY BDA - Darrell Eischer, BE, (703) 334-0823, Dewberry - Ron Jakominich, PE, (703) 849-0651
SUBSURFACE UTILITY BY, DATE Accurmark - Michael Taylor, LS, (703) 635-3060, 12/2021

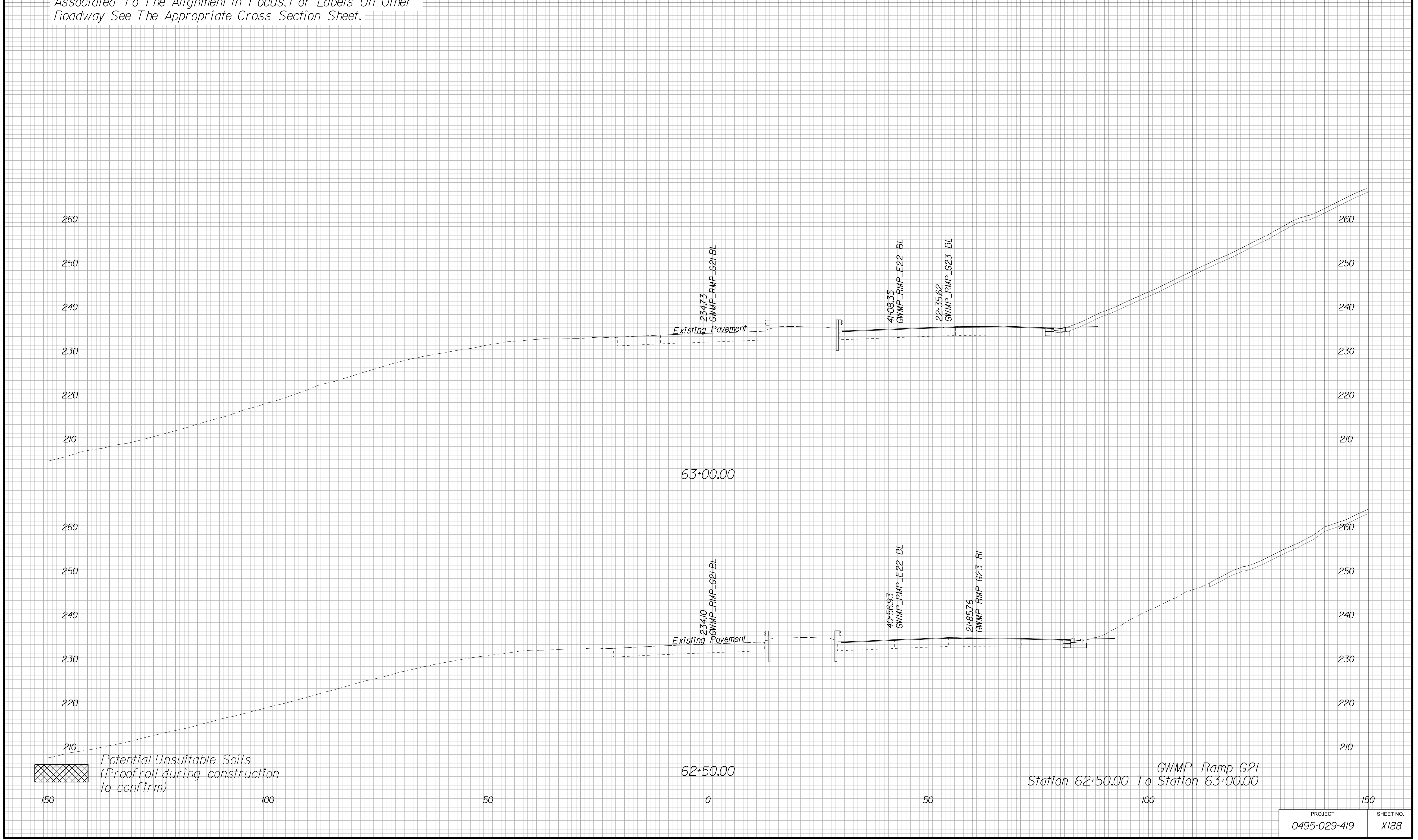
CROSS SECTIONS

SCALE 1 IN. = 10 FT

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

REVISED	STATE	ROUTE	STATE	PROJECT	SHEET NO.
	VA.	495		0495-029-419	X188 AREA 4

Cross Section Labels Are Pertinent Only To The Roadway Associated To The Alignment In Focus. For Labels On Other Roadway See The Appropriate Cross Section Sheet.



GWMP Ramp G21
Station 62+50.00 To Station 63+00.00

PROJECT	SHEET NO.
0495-029-419	X188

APPROVED FOR CONSTRUCTION

PROJECT MANAGER VDOT - Bipal Shah PE (703) 259-2362
SURVEYED BY, DATE BDA - Nicholas Kougoulis LS (703) 334-0837, 12/2021
DESIGN BY BDA - Darrell Eischer BE (703) 334-0823, Dawberly - Ron Jakominich PE (703) 849-0651
SUBSURFACE UTILITY BY, DATE Accurmark - Michael Taylor LS (703) 635-3060, 12/2021

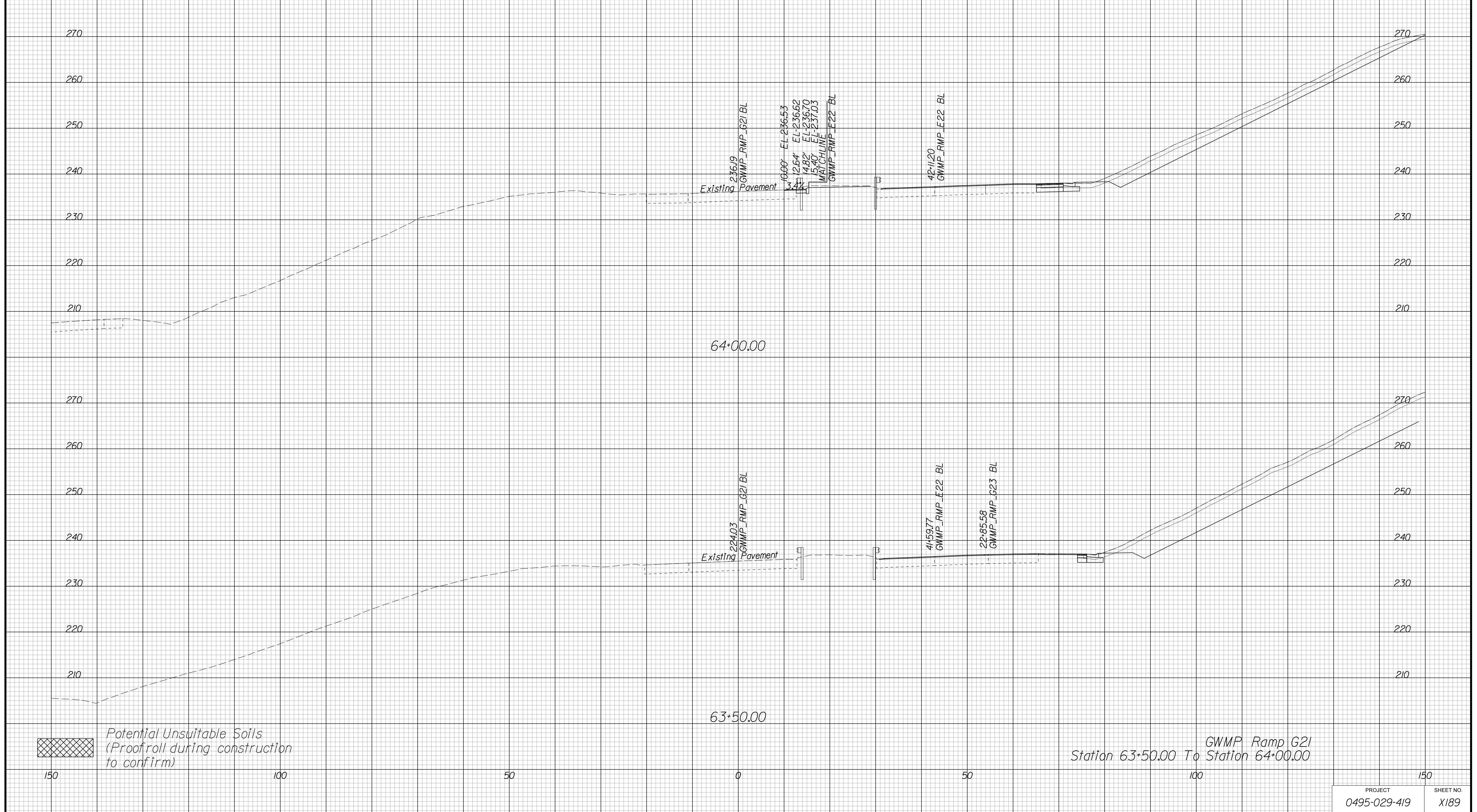
CROSS SECTIONS

SCALE 1 IN. = 10 FT

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

REVISED	STATE	ROUTE	STATE	PROJECT	SHEET NO.
	VA.	495		0495-029-419	X189 AREA 4

Cross Section Labels Are Pertinent Only To The Roadway Associated To The Alignment In Focus. For Labels On Other Roadway See The Appropriate Cross Section Sheet.



APPROVED FOR CONSTRUCTION

PROJECT MANAGER VDOT - Bimal Shah, PE, (703) 259-2362
SURVEYED BY, DATE BDA - Nicholas Kougoulis, LS, (703) 334-0837, 12/2021
DESIGN BY BDA - Darrell Eischer, BE, (703) 334-0823, Dewberry - Ron Jakominich, PE, (703) 849-0651
SUBSURFACE UTILITY BY, DATE Accurmark - Michael Taylor, LS, (703) 635-3060, 12/2021

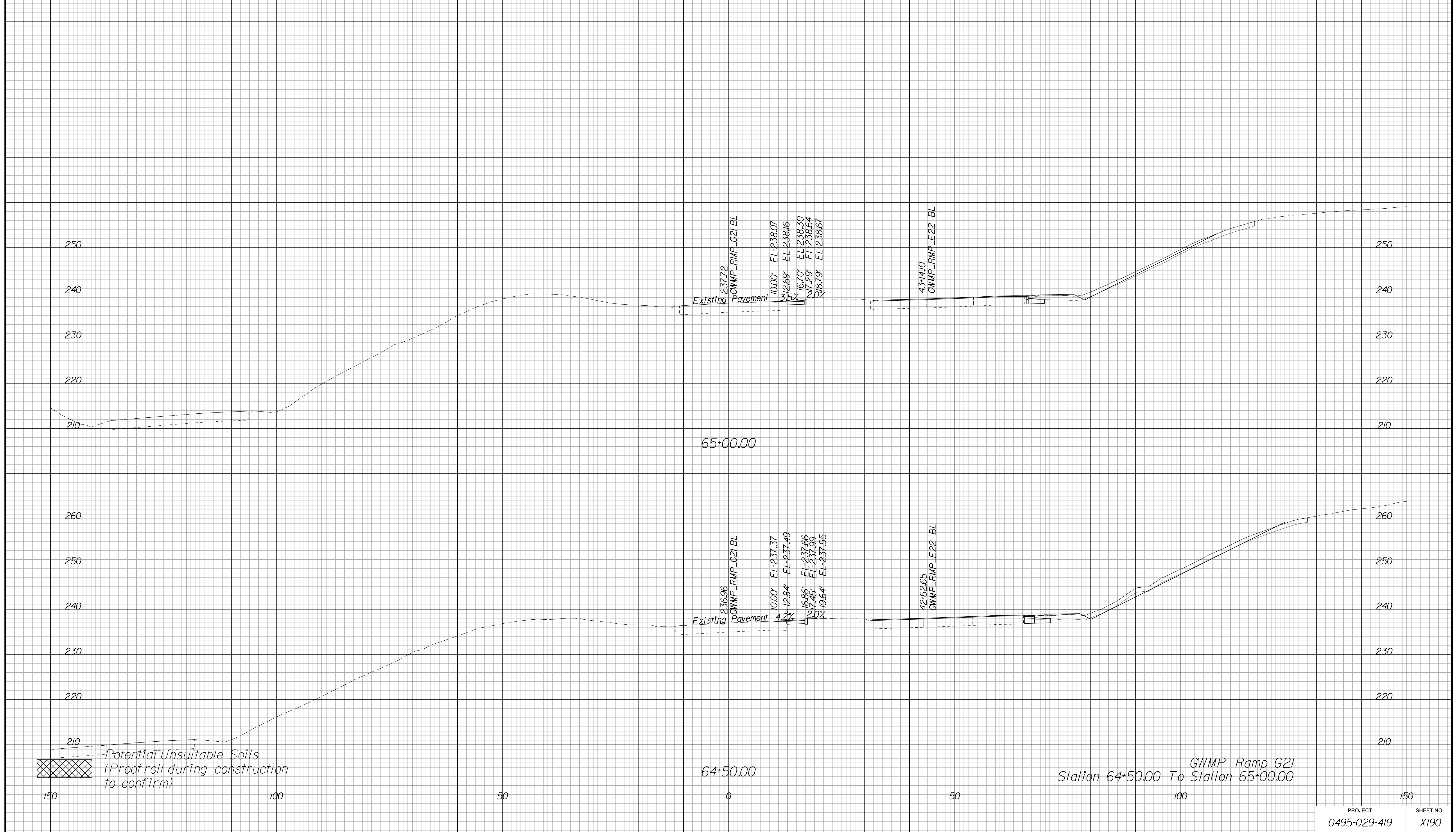
CROSS SECTIONS

SCALE 1 IN. = 10 FT

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

REVISED	STATE	ROUTE	STATE	PROJECT	SHEET NO.
	VA.	495		0495-029-419	X190 AREA 4

Cross Section Labels Are Pertinent Only To The Roadway Associated To The Alignment In Focus. For Labels On Other Roadway See The Appropriate Cross Section Sheet.



PROJECT	SHEET NO.
0495-029-419	X190

APPROVED FOR CONSTRUCTION

PROJECT MANAGER VDOT - Bipal Shah, PE, (703) 259-2362
SURVEYED BY, DATE BDA - Nicholas Kougoulis, LS, (703) 334-0837, 12/2021
DESIGN BY BDA - Darrell Eischer, BE, (703) 334-0823, Dewberry - Ron Jakominich, PE, (703) 849-0651
SUBSURFACE UTILITY BY, DATE Accurmark - Michael Taylor, LS, (703) 635-3060, 12/2021

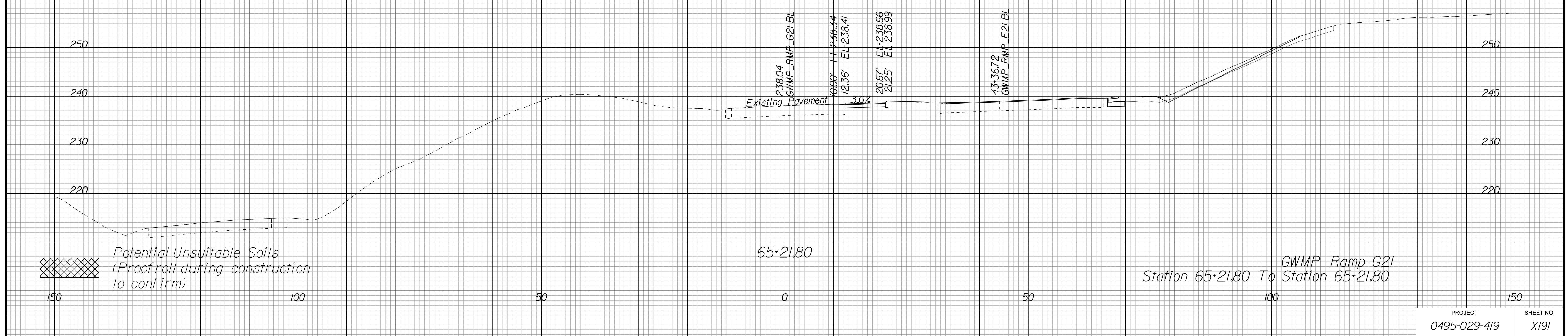
CROSS SECTIONS

SCALE 1 IN. = 10 FT

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

REVISED	STATE	ROUTE	STATE PROJECT	SHEET NO.
	VA.	495	0495-029-419	X191 AREA 4

Cross Section Labels Are Pertinent Only To The Roadway Associated To The Alignment In Focus. For Labels On Other Roadway See The Appropriate Cross Section Sheet.



APPROVED FOR CONSTRUCTION

PROJECT 0495-029-419	SHEET NO. X191
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PROJECT MANAGER VDOT - Bipal Stab PE (703) 259-2362
SURVEYED BY DATE BDA - Nicholas Kougoulis LS (703) 334-0837, 12/2021
DESIGN BY BDA - Darrell Eischer BE (703) 334-0823, Dawbercy - Ron Jakominich PE (703) 849-0651
SUBSURFACE UTILITY BY DATE Accurmark - Michael Taylor LS (703) 635-3060, 12/2021

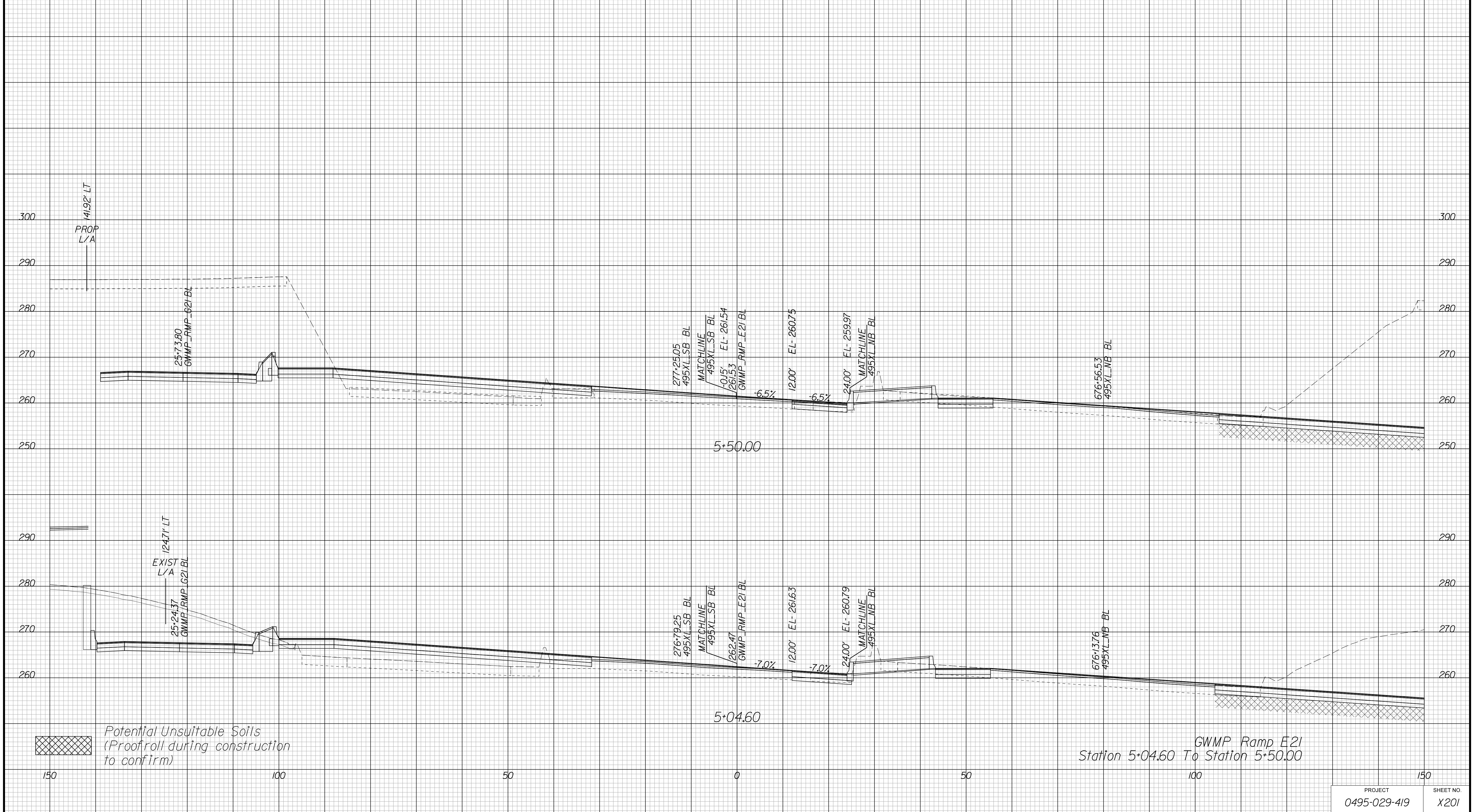
CROSS SECTIONS

SCALE 1 IN. = 10 FT

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

REVISED	STATE	ROUTE	STATE PROJECT	SHEET NO.
	VA.	495	0495-029-419	X201 AREA 4

Cross Section Labels Are Pertinent Only To The Roadway Associated To The Alignment In Focus. For Labels On Other Roadway See The Appropriate Cross Section Sheet.



GWMP Ramp E21
Station 5+04.60 To Station 5+50.00

APPROVED FOR CONSTRUCTION

PROJECT	SHEET NO.
0495-029-419	X201

PROJECT MANAGER VDOT - Bipal Stab, PE, (703) 259-2362
SURVEYED BY, DATE BDA - Nicholas Kougoulis, LS, (703) 334-0837, 12/2021
DESIGN BY BDA - Darrell Eischer, BE, (703) 334-0823, Dawberly - Ron Jakominich, PE, (703) 849-0651
SUBSURFACE UTILITY BY, DATE Accurmark - Michael Taylor, LS, (703) 635-3060, 12/2021

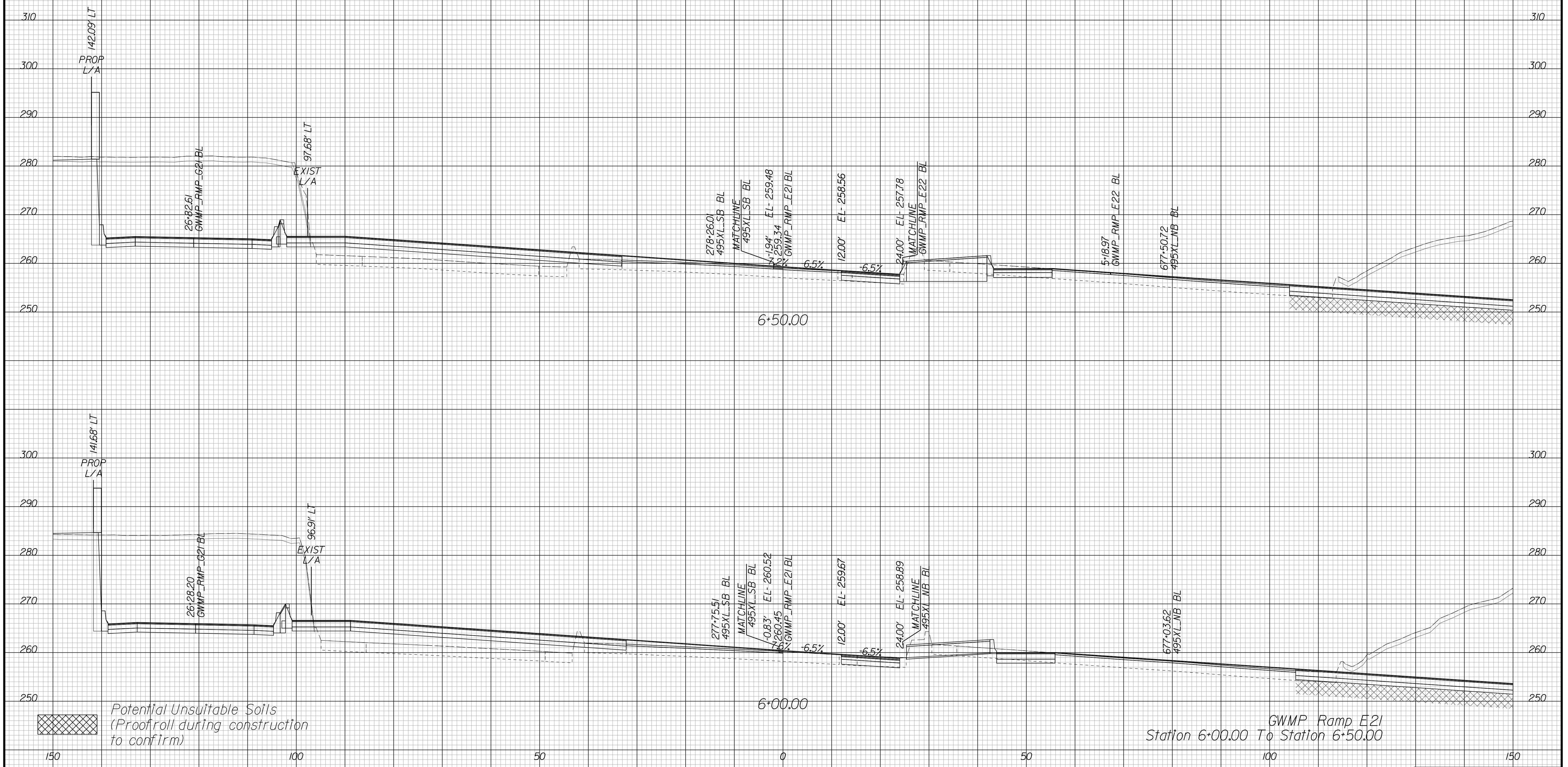
CROSS SECTIONS

SCALE 1 IN. = 10 FT

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

REVISED	STATE	ROUTE	STATE	PROJECT	SHEET NO.
	VA.	495		0495-029-419	X202 AREA 4

Cross Section Labels Are Pertinent Only To The Roadway Associated To The Alignment In Focus. For Labels On Other Roadway See The Appropriate Cross Section Sheet.



PROJECT	SHEET NO.
0495-029-419	X202

APPROVED FOR CONSTRUCTION

PROJECT MANAGER VDOT - Bimbal Stab PE (703) 259-2362
SURVEYED BY DATE BDA - Nicholas Kougoulis LS (703) 334-0837, 12/2021
DESIGN BY BDA - Darell Eischer BE (703) 334-0823, Dawbercy - Ron Jakominich PE (703) 849-0651
SUBSURFACE UTILITY BY DATE Accurmark - Michael Taylor LS (703) 635-3060, 12/2021

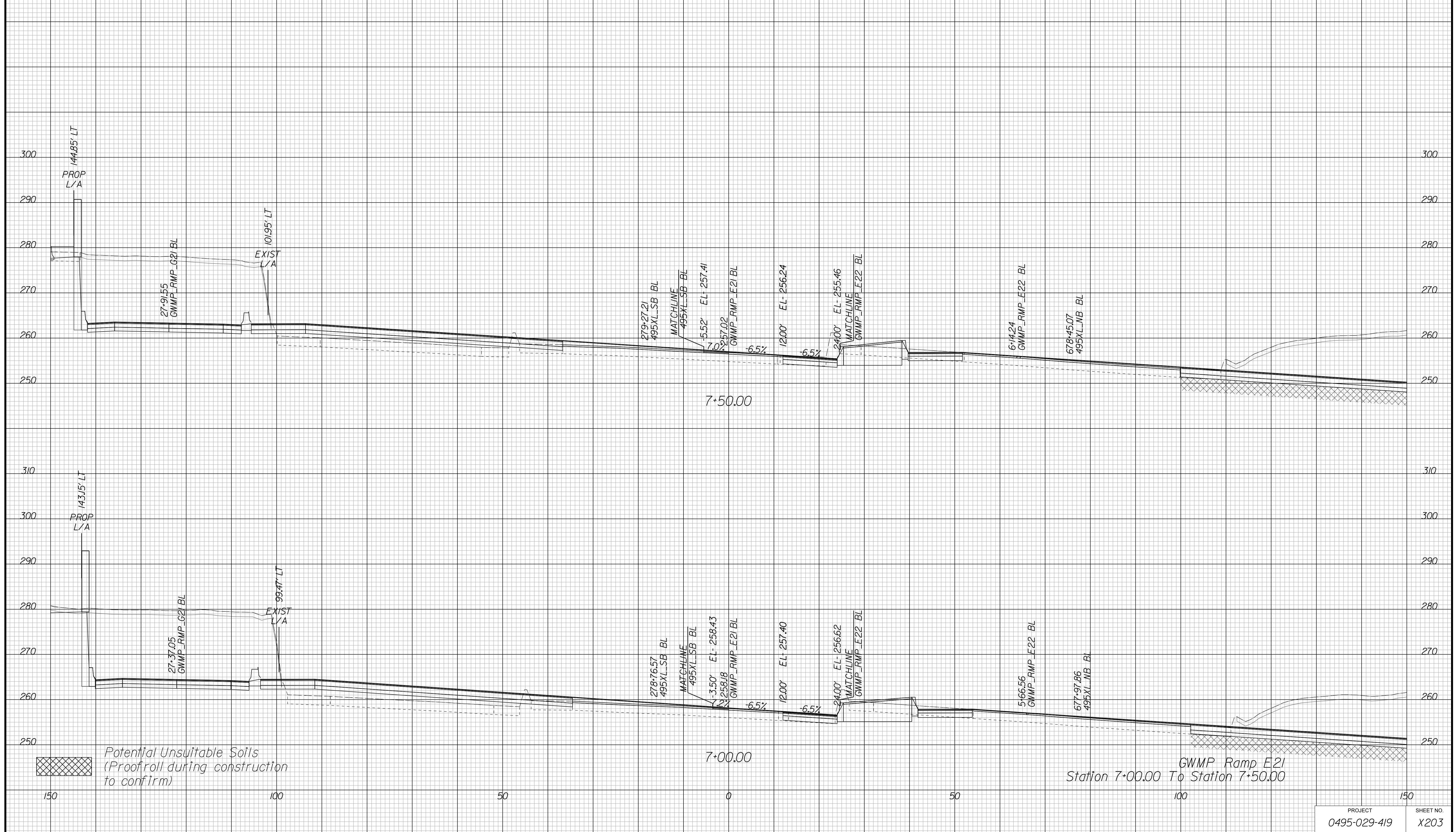
CROSS SECTIONS

SCALE 1 IN. = 10 FT

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

REVISED	STATE	ROUTE	STATE	PROJECT	SHEET NO.
	VA.	495		0495-029-419	X203 AREA 4

Cross Section Labels Are Pertinent Only To The Roadway Associated To The Alignment In Focus. For Labels On Other Roadway See The Appropriate Cross Section Sheet.



APPROVED FOR CONSTRUCTION

PROJECT MANAGER VDOT - Bipal Sab PE (703) 259-2362
SURVEYED BY DATE BDA - Nicholas Kougoulis LS (703) 334-0837, 12/2021
DESIGN BY BDA - Darrell Eischer BE (703) 334-0823, Dexberry - Ron Jakominich PE (703) 849-0651
SUBSURFACE UTILITY BY DATE Accurmark - Michael Taylor LS (703) 635-3060, 12/2021

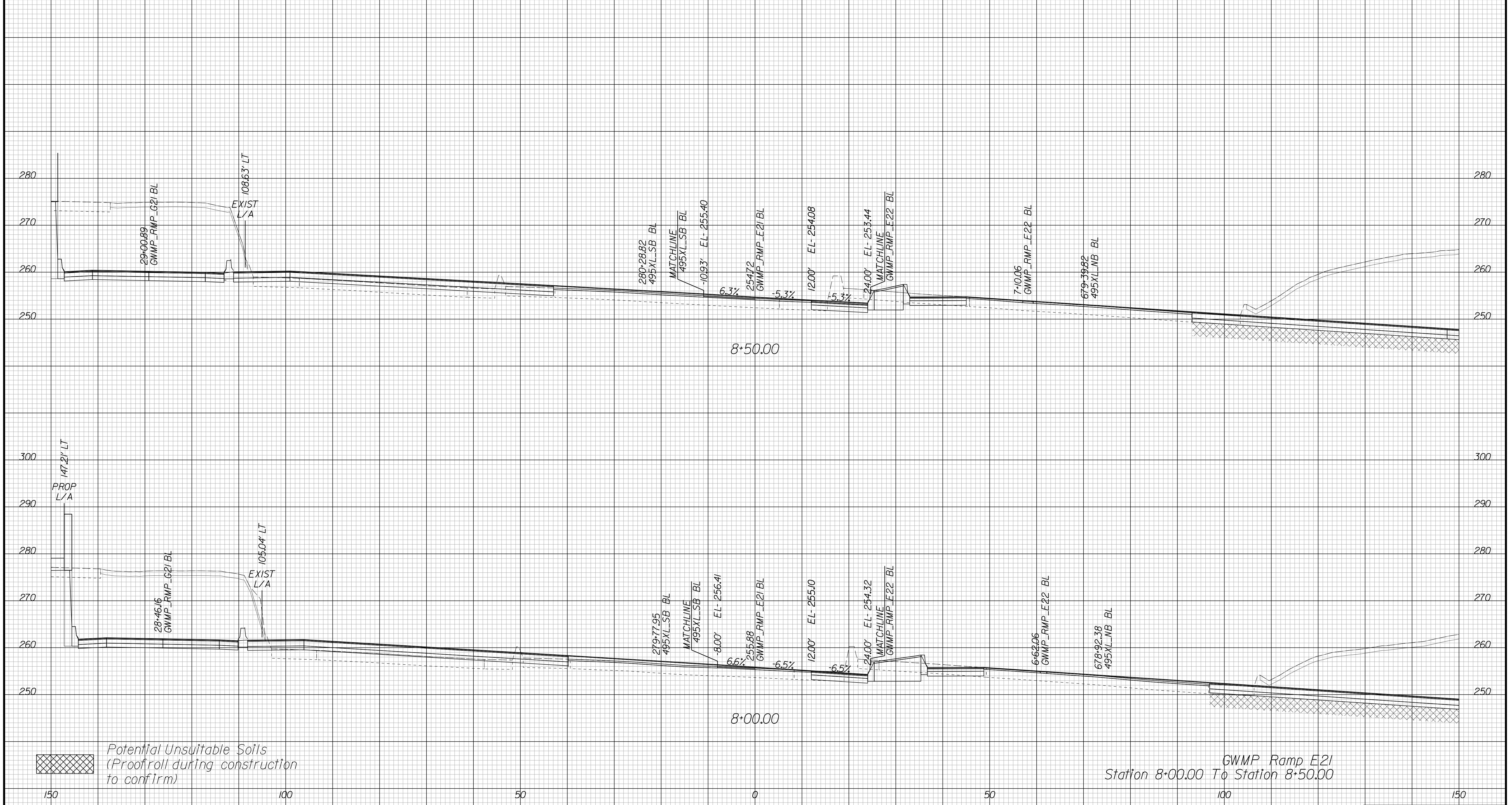
CROSS SECTIONS

SCALE 1 IN. = 10 FT

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

REVISED	STATE	ROUTE	STATE	PROJECT	SHEET NO.
	VA.	495		0495-029-419	X204 AREA 4

Cross Section Labels Are Pertinent Only To The Roadway Associated To The Alignment In Focus. For Labels On Other Roadway See The Appropriate Cross Section Sheet.



Potential Unsuitable Soils
(Proofroll during construction to confirm)

GWMP Ramp E21
Station 8+00.00 To Station 8+50.00

PROJECT	SHEET NO.
0495-029-419	X204

APPROVED FOR CONSTRUCTION

PROJECT MANAGER VDOT - Bimbal Stab PE (703) 259-2362
SURVEYED BY DATE BDA - Nicholas Kougioulis LS (703) 334-0837, 12/2021
DESIGN BY BDA - Darell Eischer BE (703) 334-0823, Dawberly - Ron Jakominich PE (703) 849-0651
SUBSURFACE UTILITY BY DATE Accurmark - Michael Taylor LS (703) 635-3060, 12/2021

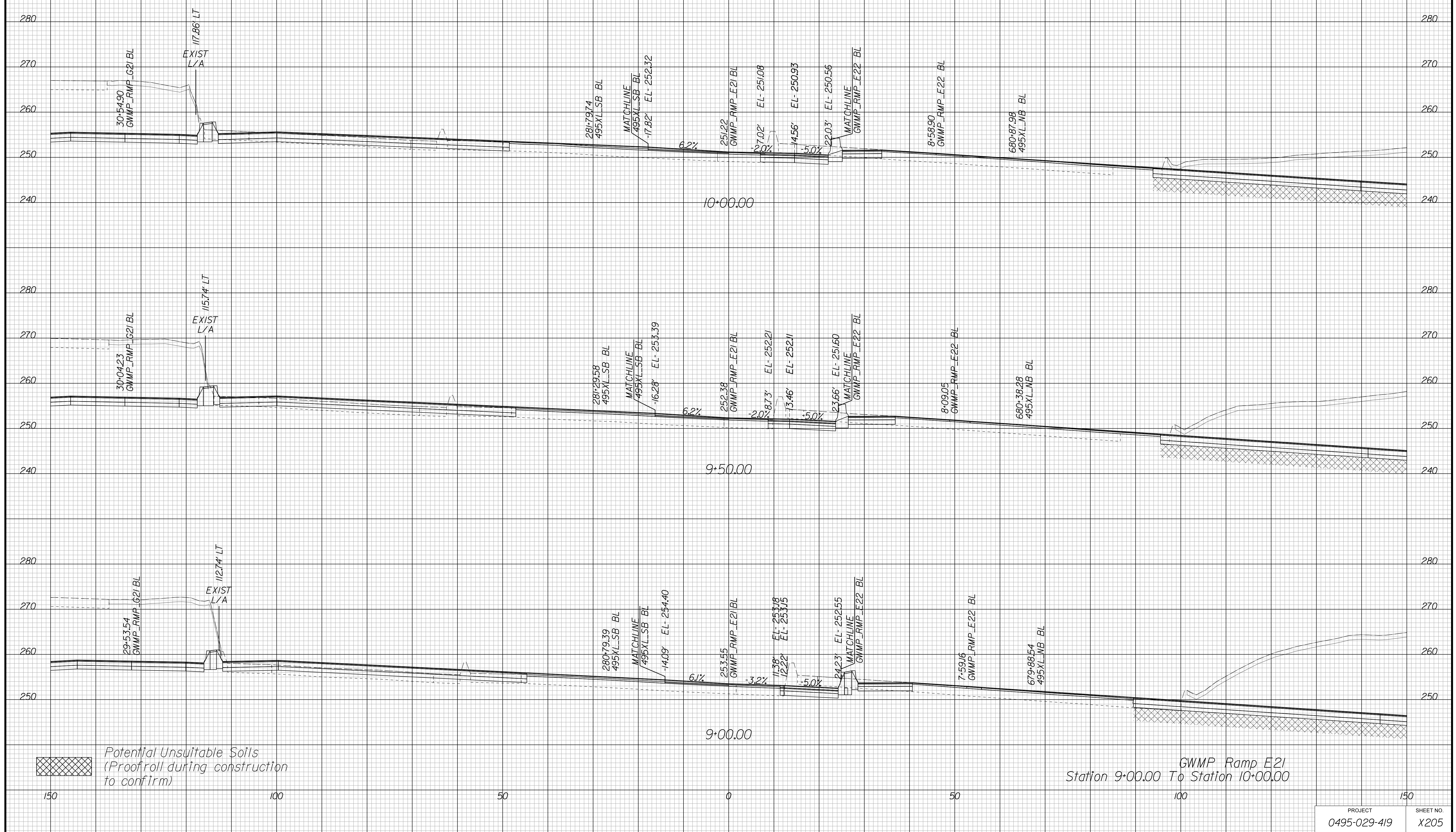
CROSS SECTIONS

SCALE 1 IN. = 10 FT

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

REVISED	STATE	ROUTE	STATE	PROJECT	SHEET NO.
	VA.	495		0495-029-419	X205 AREA 4

Cross Section Labels Are Pertinent Only To The Roadway Associated To The Alignment In Focus. For Labels On Other Roadway See The Appropriate Cross Section Sheet.



APPROVED FOR CONSTRUCTION

PROJECT MANAGER VDOT - Bimbal Stab PE (703) 259-2362
SURVEYED BY DATE BDA - Nicholas Kougoulis LS (703) 334-0837, 12/2021
DESIGN BY BDA - Darrell Elischer BE (703) 334-0823, Devonberry - Ron Jakominich PE (703) 849-0651
SUBSURFACE UTILITY BY DATE Accurmark - Michael Taylor LS (703) 635-3060, 12/2021

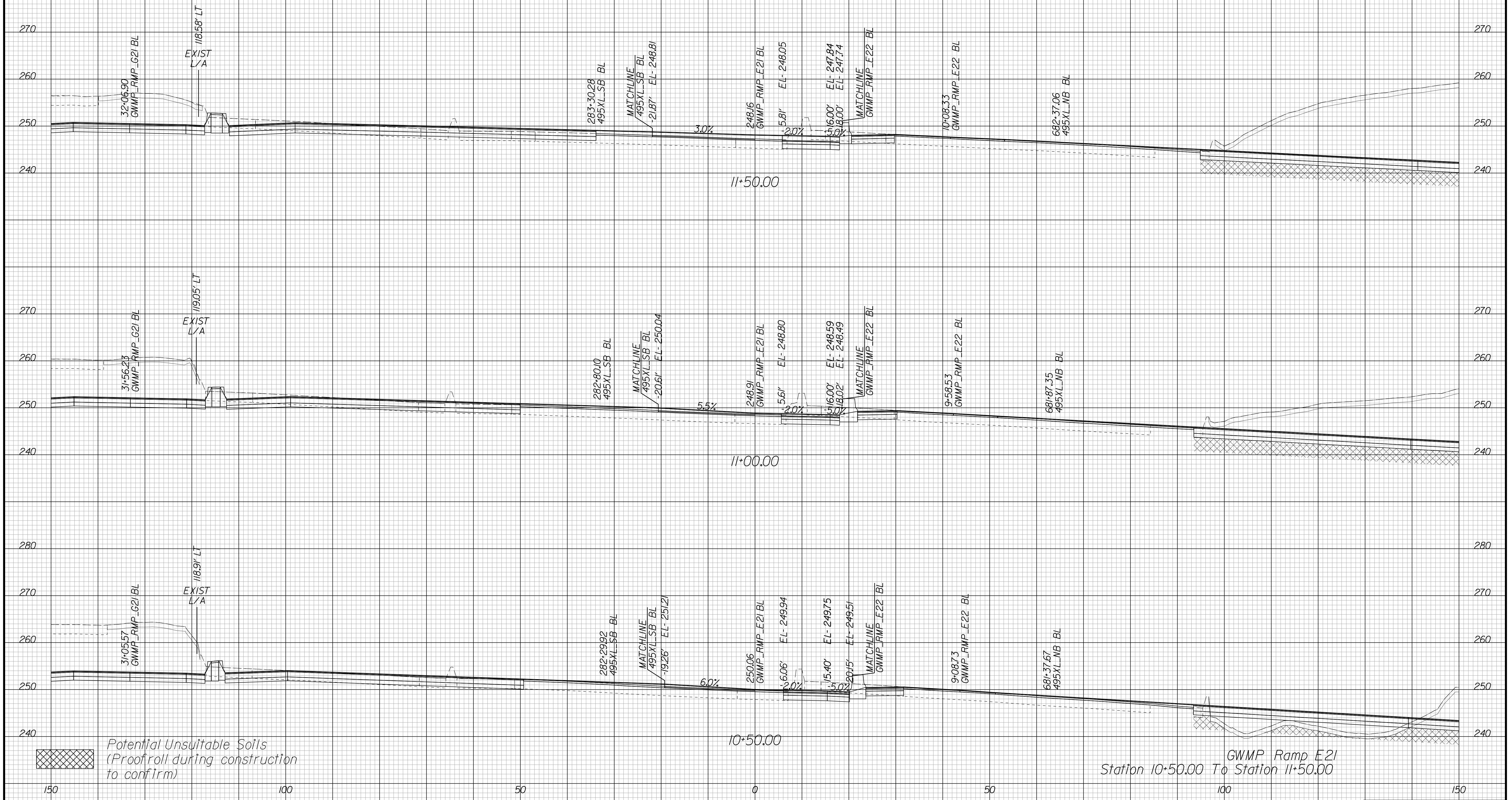
CROSS SECTIONS

SCALE 1 IN. = 10 FT

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

REVISED	STATE	ROUTE	STATE PROJECT	SHEET NO.
	VA.	495	0495-029-419	X206 AREA 4

Cross Section Labels Are Pertinent Only To The Roadway Associated To The Alignment In Focus. For Labels On Other Roadway See The Appropriate Cross Section Sheet.



APPROVED FOR CONSTRUCTION

PROJECT MANAGER VDOT - Bimbal Stab PE (703) 259-2362
SURVEYED BY DATE BDA - Nicholas Kougioulis LS (703) 334-0837, 12/2021
DESIGN BY BDA - Darrell Eischer BE (703) 334-0823, Dexberry - Ron Jakominich PE (703) 849-0651
SUBSURFACE UTILITY BY DATE Accurmark - Michael Taylor LS (703) 635-3060, 12/2021

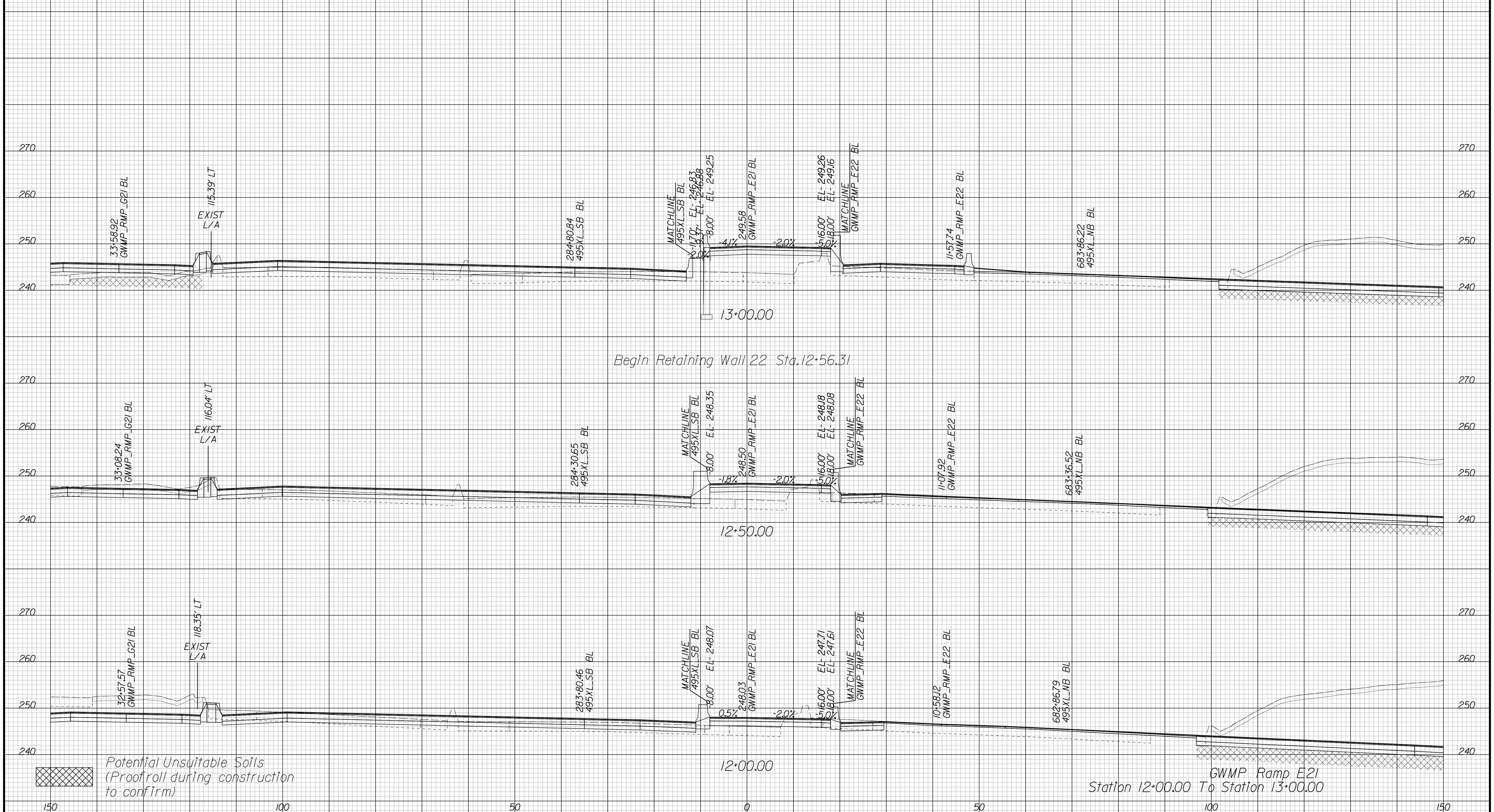
CROSS SECTIONS

SCALE 1 IN. = 10 FT

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

REVISED	STATE	ROUTE	STATE PROJECT	SHEET NO.
	VA.	495	0495-029-419	X207 AREA 4

Cross Section Labels Are Pertinent Only To The Roadway Associated To The Alignment In Focus. For Labels On Other Roadway See The Appropriate Cross Section Sheet.



GWMP Ramp E21
Station 12+00.00 To Station 13+00.00

Potential Unsuitable Soils
(Proofroll during construction
to confirm)

PROJECT	SHEET NO.
0495-029-419	X207

APPROVED FOR CONSTRUCTION

PROJECT MANAGER VDOT - Bimbal Stab PE (703) 259-2362
SURVEYED BY, DATE BDA - Nicholas Kougoulis LS (703) 334-0837, 12/2021
DESIGN BY BDA - Darrell Eischer BE (703) 334-0823, Dexberry - Ron Jakominich PE (703) 849-0651
SUBSURFACE UTILITY BY, DATE Accurmark - Michael Taylor LS (703) 635-3060, 12/2021

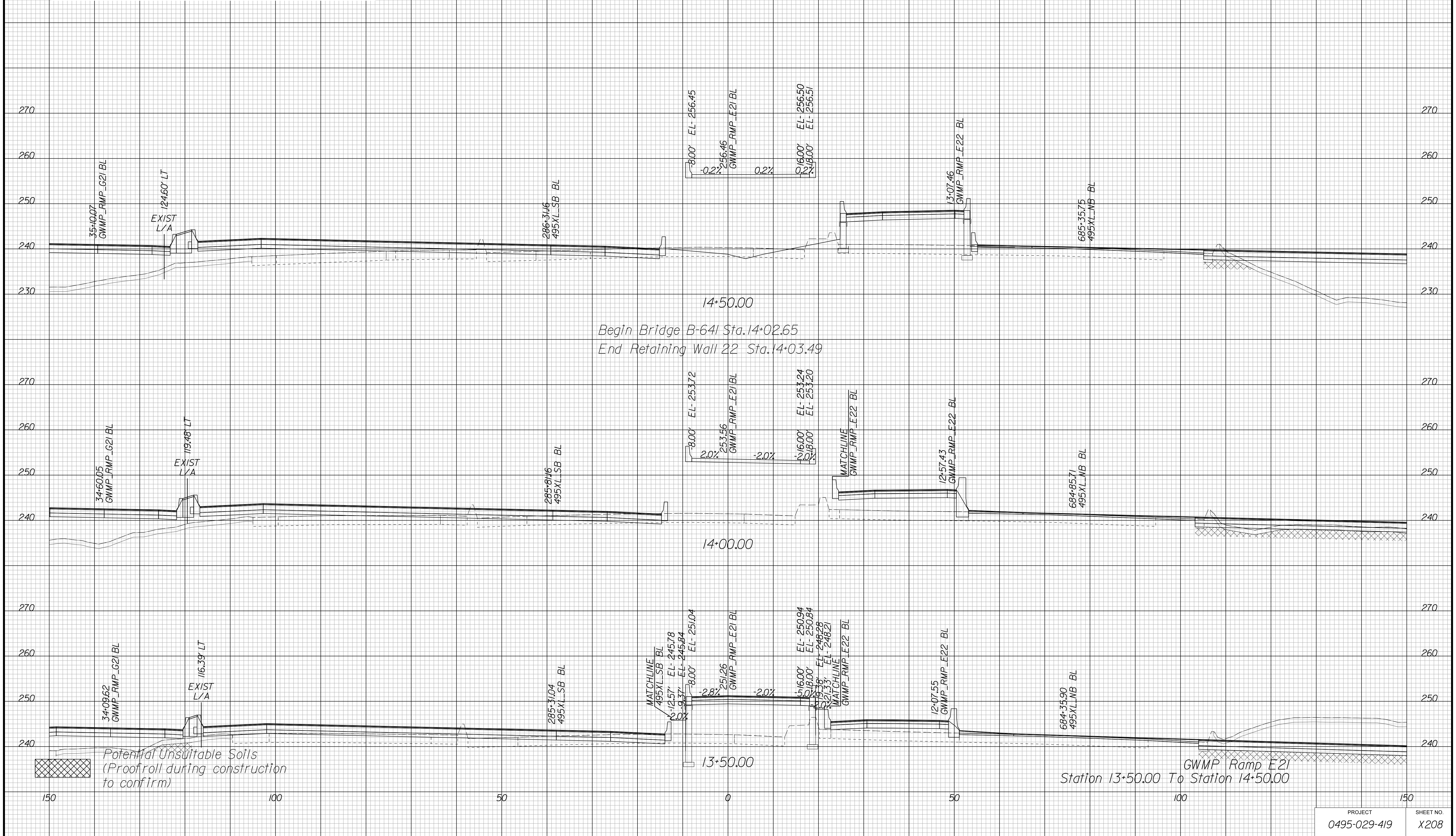
CROSS SECTIONS

SCALE 1 IN. = 10 FT

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

REVISED	STATE	ROUTE	STATE PROJECT	SHEET NO.
	VA.	495	0495-029-419	X208 AREA 4

Cross Section Labels Are Pertinent Only To The Roadway Associated To The Alignment In Focus. For Labels On Other Roadway See The Appropriate Cross Section Sheet.



APPROVED FOR CONSTRUCTION

PROJECT MANAGER VDOT - Bimbal Stab PE (703) 259-2362
SURVEYED BY DATE BDA - Nicholas Kougoulis LS (703) 334-0837, 12/2021
DESIGN BY BDA - Darell Eischer BE (703) 334-0823, Daxbery - Ron Jakominich PE (703) 849-0651
SUBSURFACE UTILITY BY DATE Accurmark - Michael Taylor LS (703) 635-3060, 12/2021

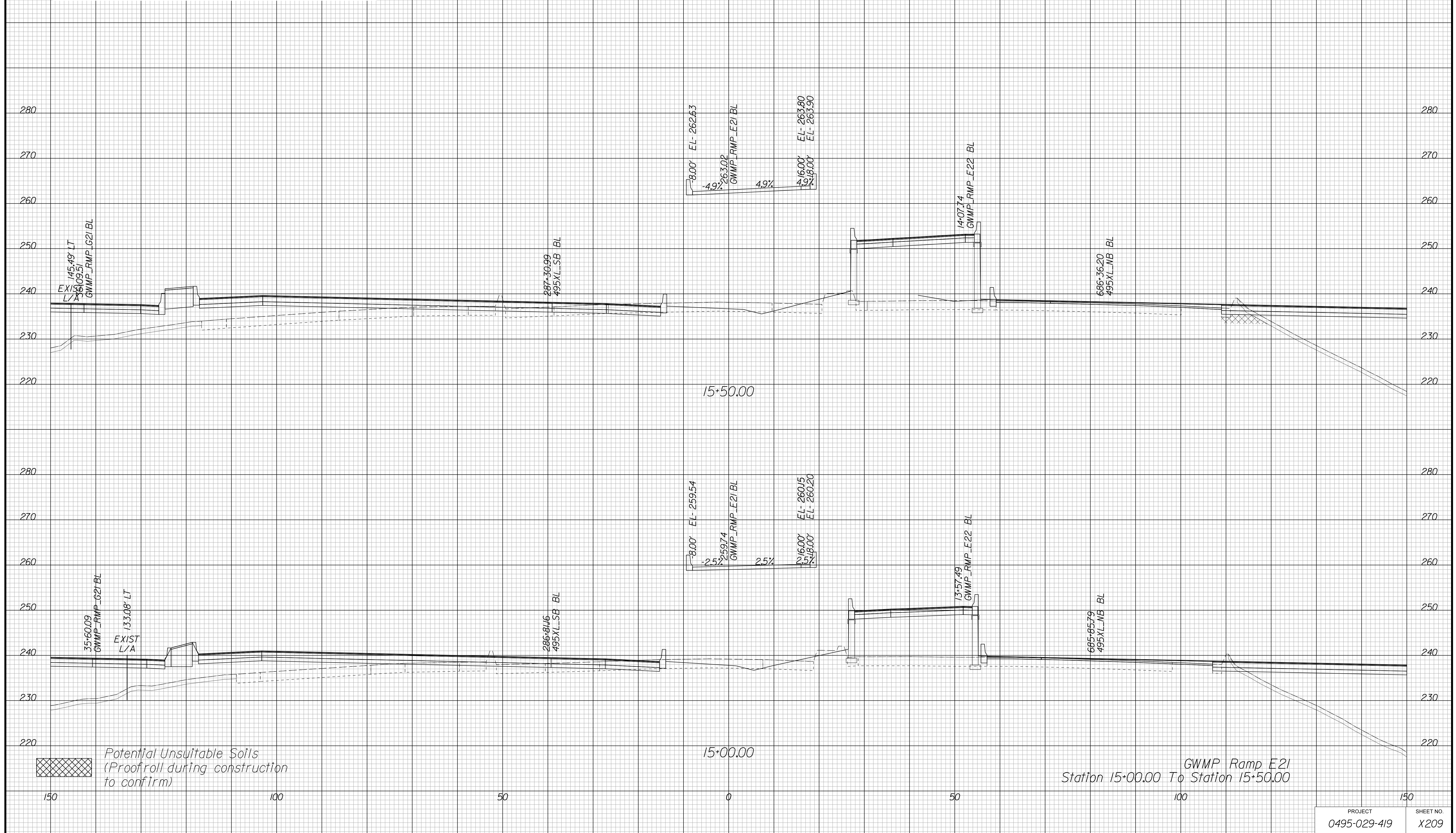
CROSS SECTIONS

SCALE 1 IN. = 10 FT

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

REVISED	STATE	ROUTE	STATE	PROJECT	SHEET NO.
	VA.	495		0495-029-419	X209 AREA 4

Cross Section Labels Are Pertinent Only To The Roadway Associated To The Alignment In Focus. For Labels On Other Roadway See The Appropriate Cross Section Sheet.



PROJECT	SHEET NO.
0495-029-419	X209

APPROVED FOR CONSTRUCTION

PROJECT MANAGER VDOT - Bimbal Stab PE (703) 259-2362
SURVEYED BY DATE BDA - Nicholas Kougoulis LS (703) 334-0837, 12/2021
DESIGN BY BDA - Darell Eischer BE (703) 334-0823, Dexberry - Ron Jakominich PE (703) 849-0651
SUBSURFACE UTILITY BY DATE Accurmark - Michael Taylor LS (703) 635-3060, 12/2021

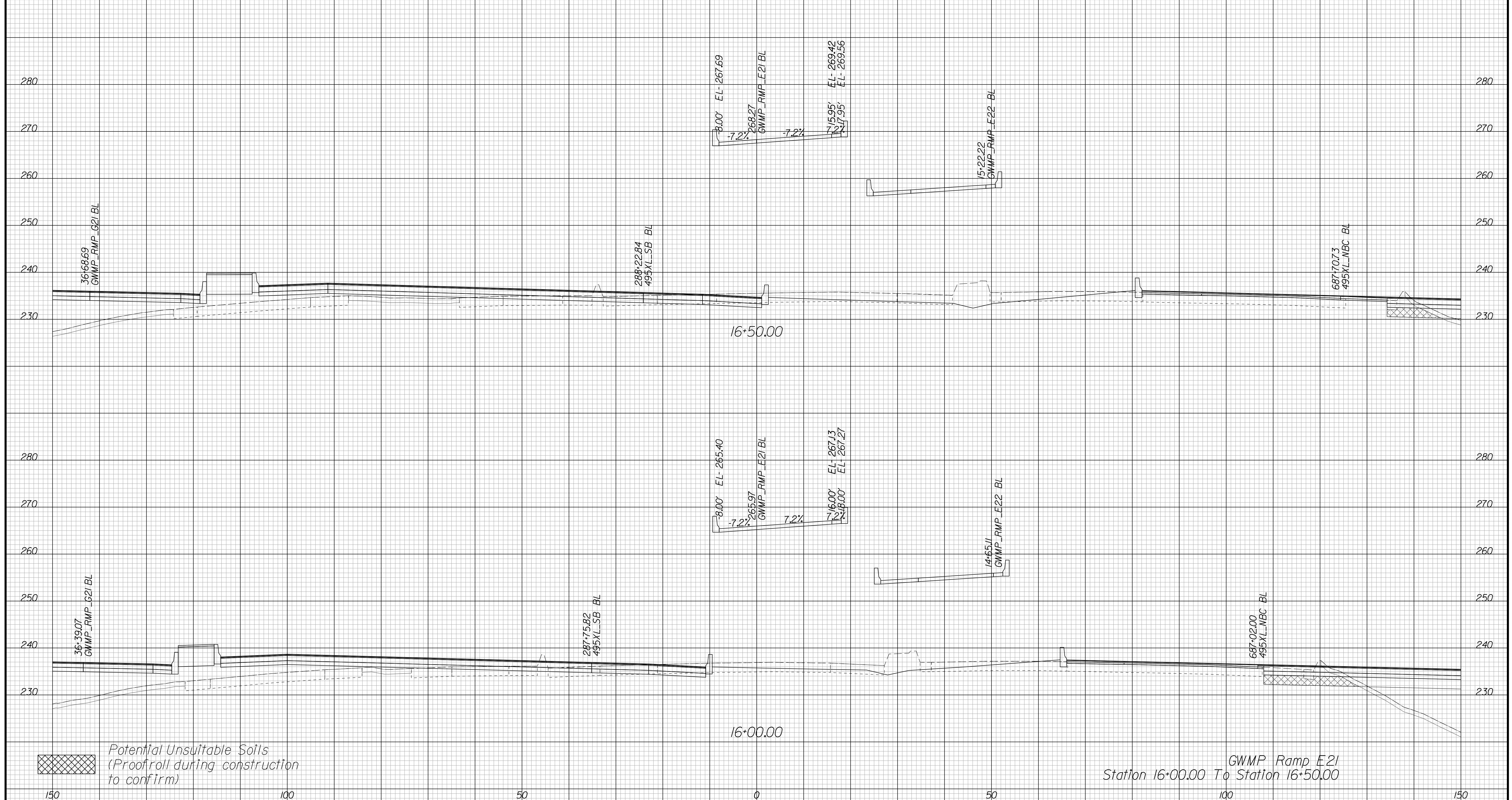
CROSS SECTIONS

SCALE 1 IN. = 10 FT

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

REVISED	STATE	ROUTE	STATE	PROJECT	SHEET NO.
	VA.	495		0495-029-419	X210

Cross Section Labels Are Pertinent Only To The Roadway Associated To The Alignment In Focus. For Labels On Other Roadway See The Appropriate Cross Section Sheet.



GWMP Ramp E2I
Station 16+00.00 To Station 16+50.00

150

100

50

0

50

100

150

PROJECT	SHEET NO.
0495-029-419	X210

APPROVED FOR CONSTRUCTION

PROJECT MANAGER VDOT - Bimbal Stab PE (703) 259-2362
SURVEYED BY DATE BDA - Nicholas Kougoulis LS (703) 334-0837, 12/2021
DESIGN BY BDA - Darrell Eischer BE (703) 334-0823, Dexberry - Ron Jakominich PE (703) 849-0651
SUBSURFACE UTILITY BY DATE Accurmark - Michael Taylor LS (703) 635-3060, 12/2021

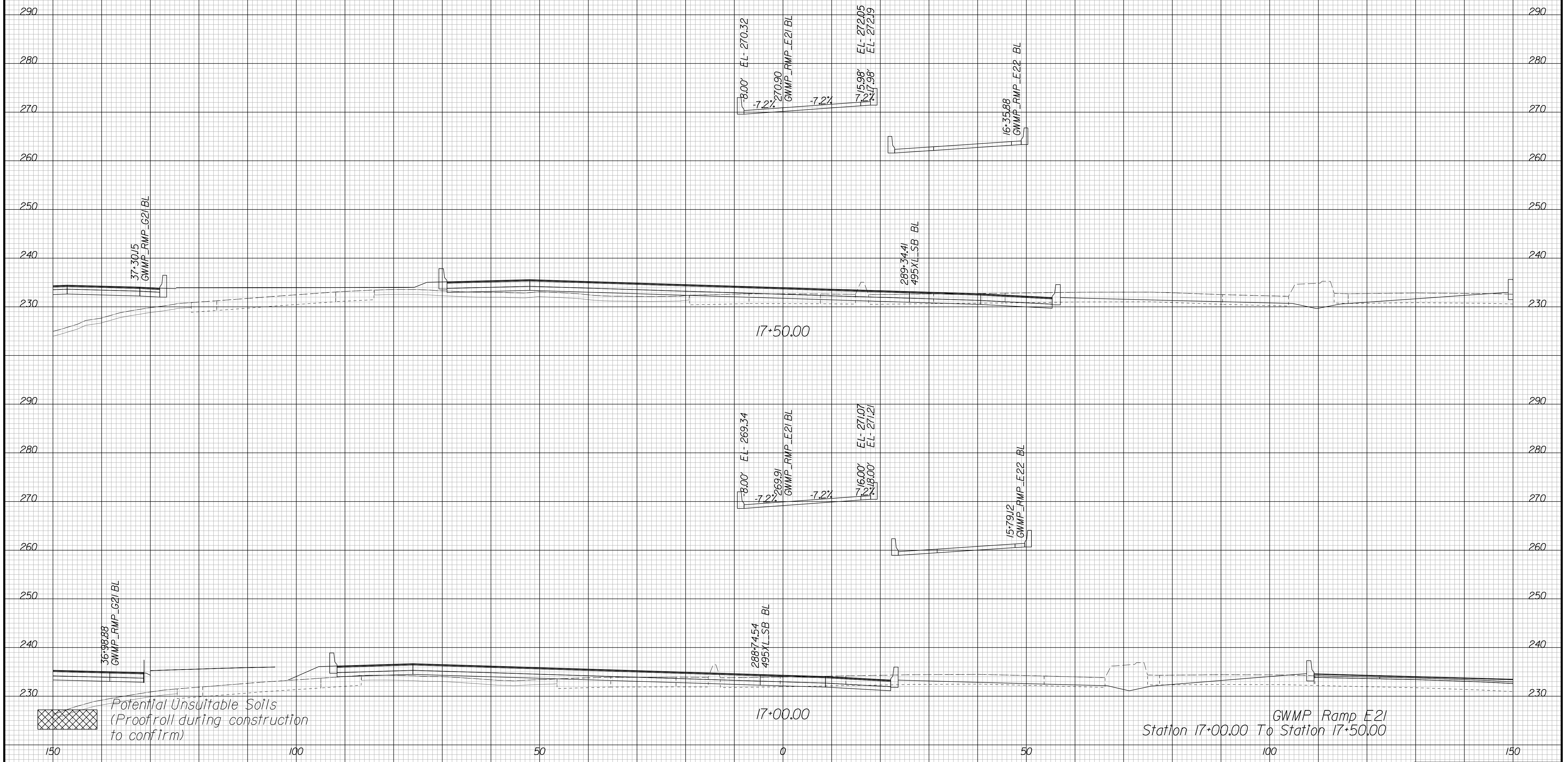
CROSS SECTIONS

SCALE 1 IN. = 10 FT

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

REVISED	STATE	ROUTE	STATE	PROJECT	SHEET NO.
	VA.	495		0495-029-419	X211 AREA 4

Cross Section Labels Are Pertinent Only To The Roadway Associated To The Alignment In Focus. For Labels On Other Roadway See The Appropriate Cross Section Sheet.



Potential Unsuitable Soils (Proofroll during construction to confirm)

GWMP Ramp E21
Station 17+00.00 To Station 17+50.00

PROJECT	SHEET NO.
0495-029-419	X211

APPROVED FOR CONSTRUCTION

PROJECT MANAGER VDOT - Bimbal Stab PE (703) 259-2362
SURVEYED BY, DATE BDA - Nicholas Kougoulis LS (703) 334-0837, 12/2021
DESIGN BY BDA - Darrell Eischer BE (703) 334-0823, Dawbercy - Ron Jakominich PE (703) 849-0651
SUBSURFACE UTILITY BY, DATE Accurmark - Michael Taylor LS (703) 635-3060, 12/2021

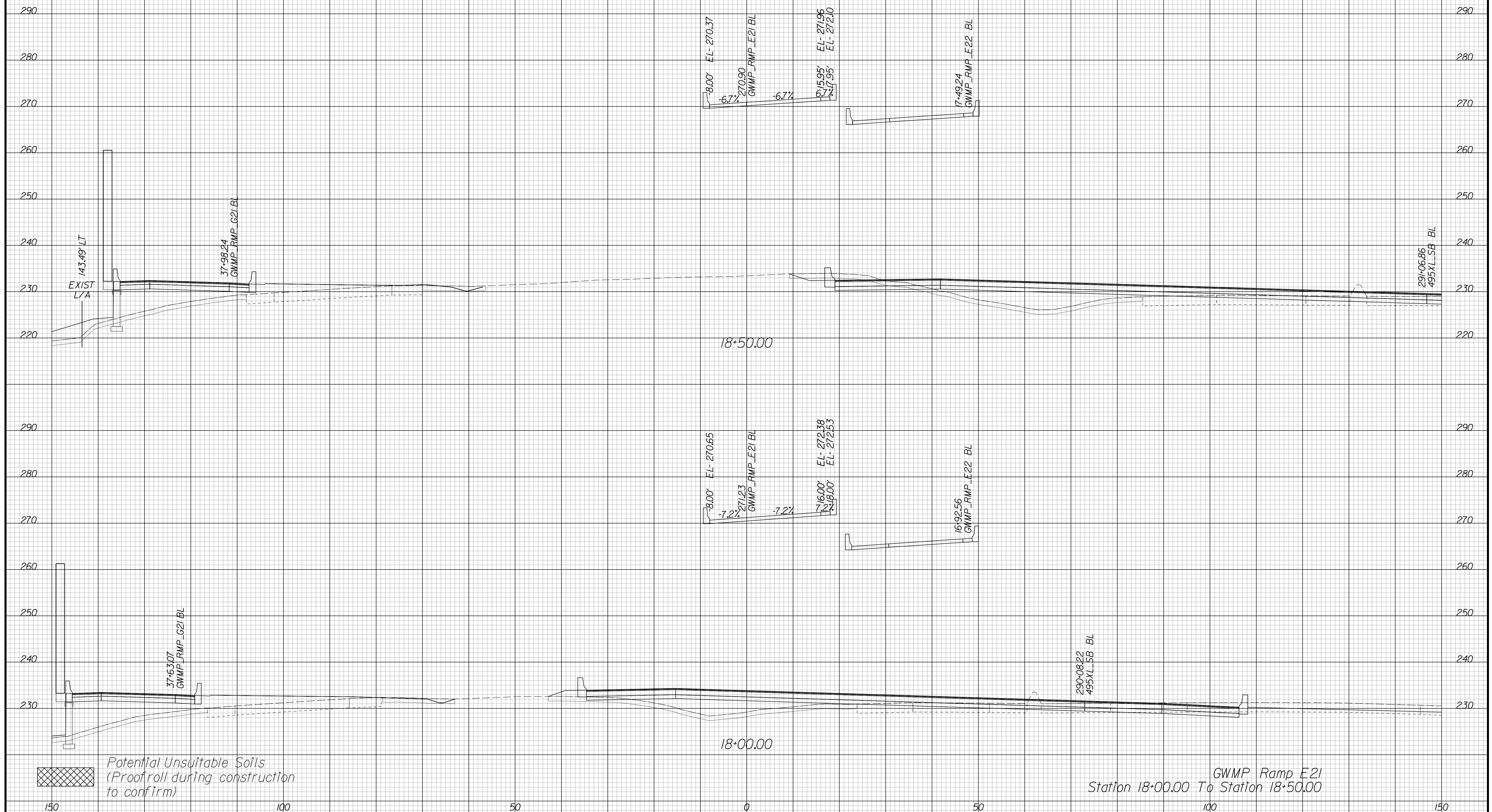
CROSS SECTIONS


SCALE 1 IN. = 10 FT

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

REVISED	STATE	ROUTE	STATE PROJECT	SHEET NO.
	VA.	495	0495-029-419	X212 AREA 4

Cross Section Labels Are Pertinent Only To The Roadway Associated To The Alignment In Focus. For Labels On Other Roadway See The Appropriate Cross Section Sheet.



 Potential Unsuitable Soils (Proofroll during construction to confirm)

GWMP Ramp E2I
Station 18+00.00 To Station 18+50.00

PROJECT	SHEET NO.
0495-029-419	X212

APPROVED FOR CONSTRUCTION

PROJECT MANAGER VDOT - Bimbal Stab PE (703) 259-2362
SURVEYED BY DATE BDA - Nicholas Kougoulis LS (703) 334-0837, 12/2021
DESIGN BY BDA - Darrell Eischer BE (703) 334-0823, Dexberry - Ron Jakominich PE (703) 849-0651
SUBSURFACE UTILITY BY DATE Accurmark - Michael Taylor LS (703) 635-3060, 12/2021

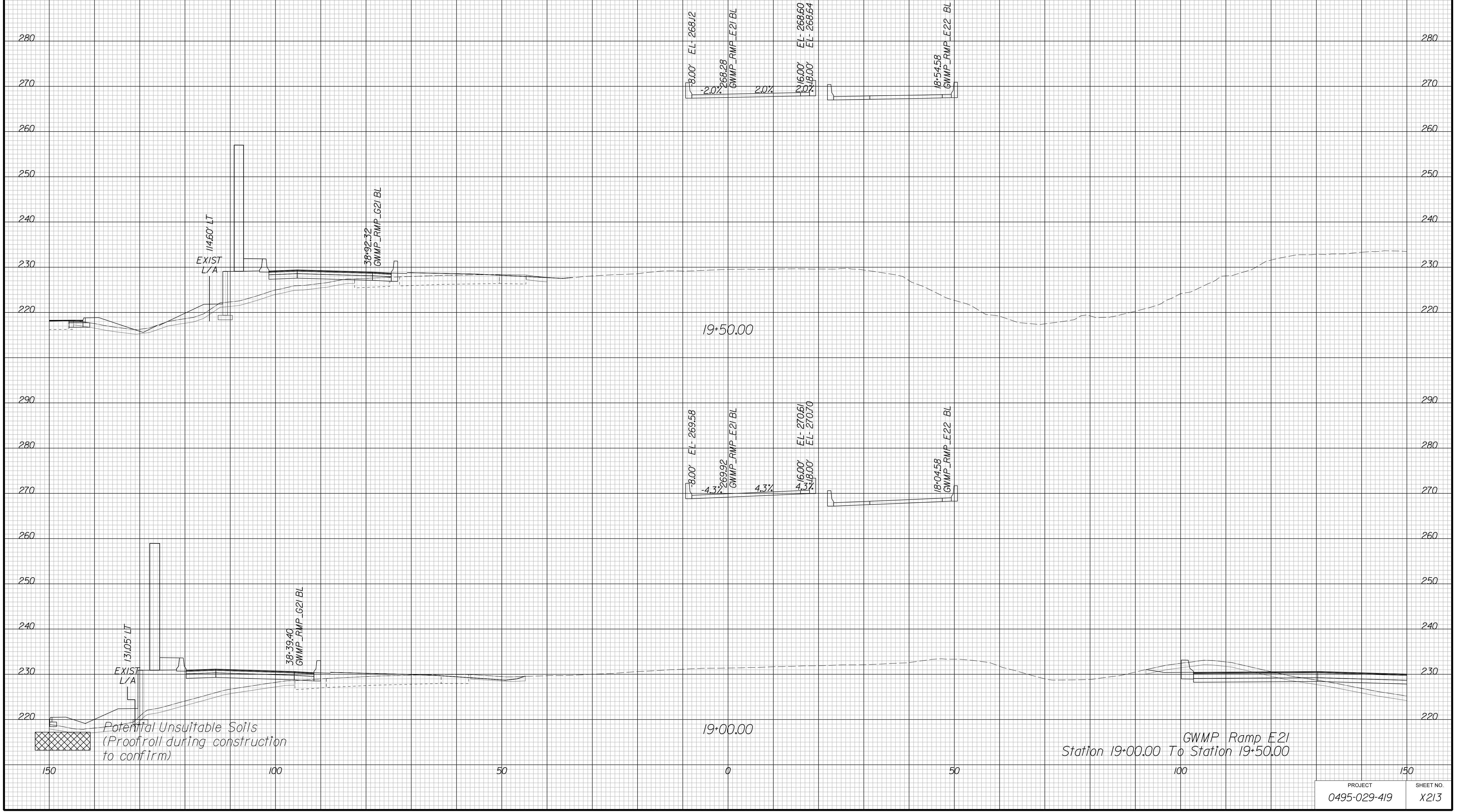
CROSS SECTIONS

SCALE 1 IN. = 10 FT

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

REVISED	STATE	ROUTE	STATE	PROJECT	SHEET NO.
	VA.	495		0495-029-419	X213 AREA 4

Cross Section Labels Are Pertinent Only To The Roadway Associated To The Alignment In Focus. For Labels On Other Roadway See The Appropriate Cross Section Sheet.



PROJECT	SHEET NO.
0495-029-419	X213

APPROVED FOR CONSTRUCTION

PROJECT MANAGER VDOT - Bimbal Stab PE (703) 259-2362
SURVEYED BY DATE BDA - Nicholas Kougoulis LS (703) 334-0837, 12/2021
DESIGN BY BDA - Darrell Eischer BE (703) 334-0823, Daxbery - Ron Jakominich PE (703) 849-0651
SUBSURFACE UTILITY BY DATE Accurmark - Michael Taylor LS (703) 635-3060, 12/2021

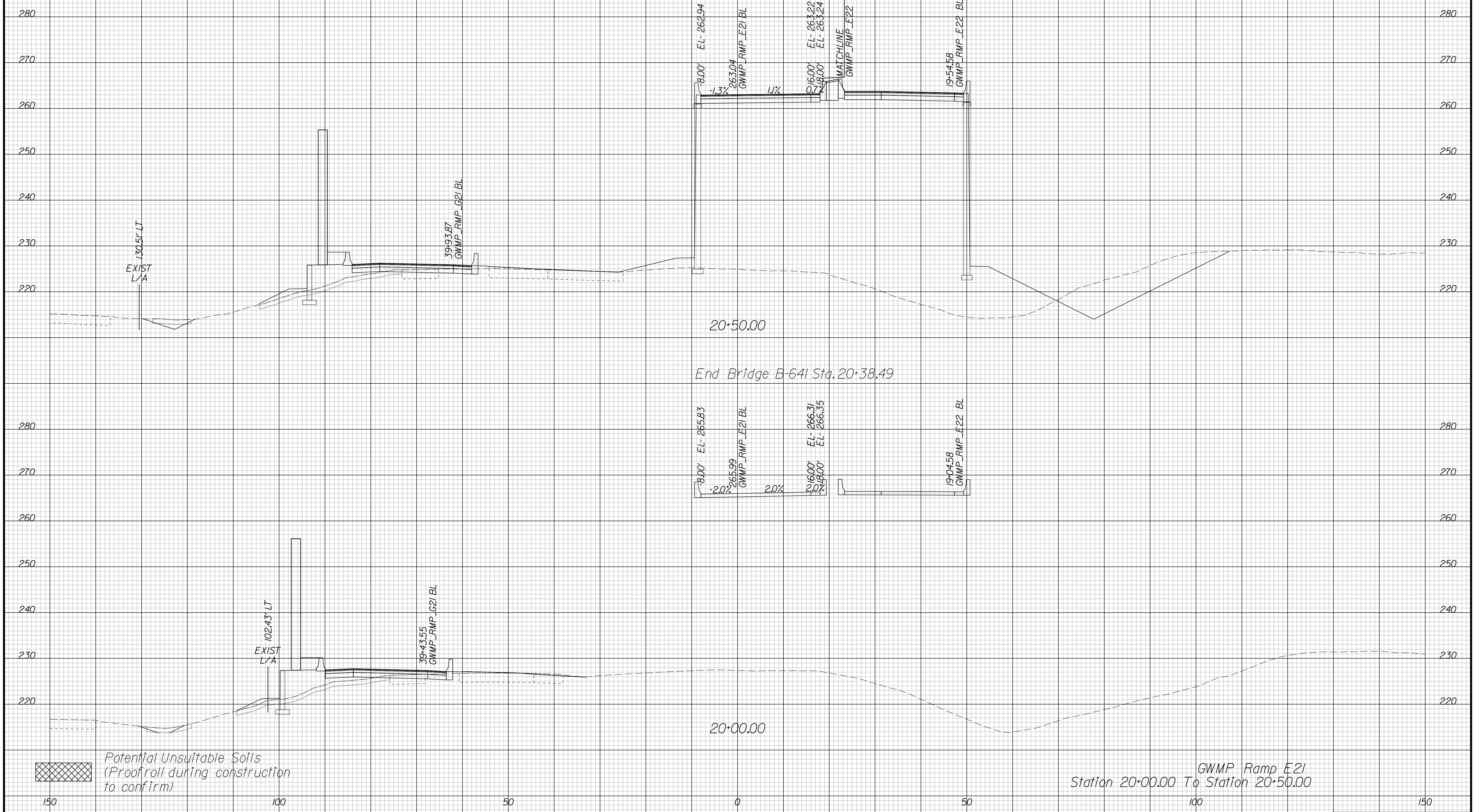
CROSS SECTIONS

SCALE 1 IN. = 10 FT

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

REVISED	STATE	ROUTE	STATE	PROJECT	SHEET NO.
	VA.	495		0495-029-419	X214 AREA 4

Cross Section Labels Are Pertinent Only To The Roadway Associated To The Alignment In Focus. For Labels On Other Roadway See The Appropriate Cross Section Sheet.



GWMP Ramp E21
Station 20+00.00 To Station 20+50.00

PROJECT	SHEET NO.
0495-029-419	X214

APPROVED FOR CONSTRUCTION

PROJECT MANAGER VDOT - Bimbal Stab PE (703) 259-2362
SURVEYED BY DATE BDA - Nicholas Kougoulis LS (703) 334-0837, 12/2021
DESIGN BY BDA - Darrell Eischer BE (703) 334-0823, Dawbercy - Ron Jakominich PE (703) 849-0651
SUBSURFACE UTILITY BY DATE Accurmark - Michael Taylor LS (703) 635-3060, 12/2021

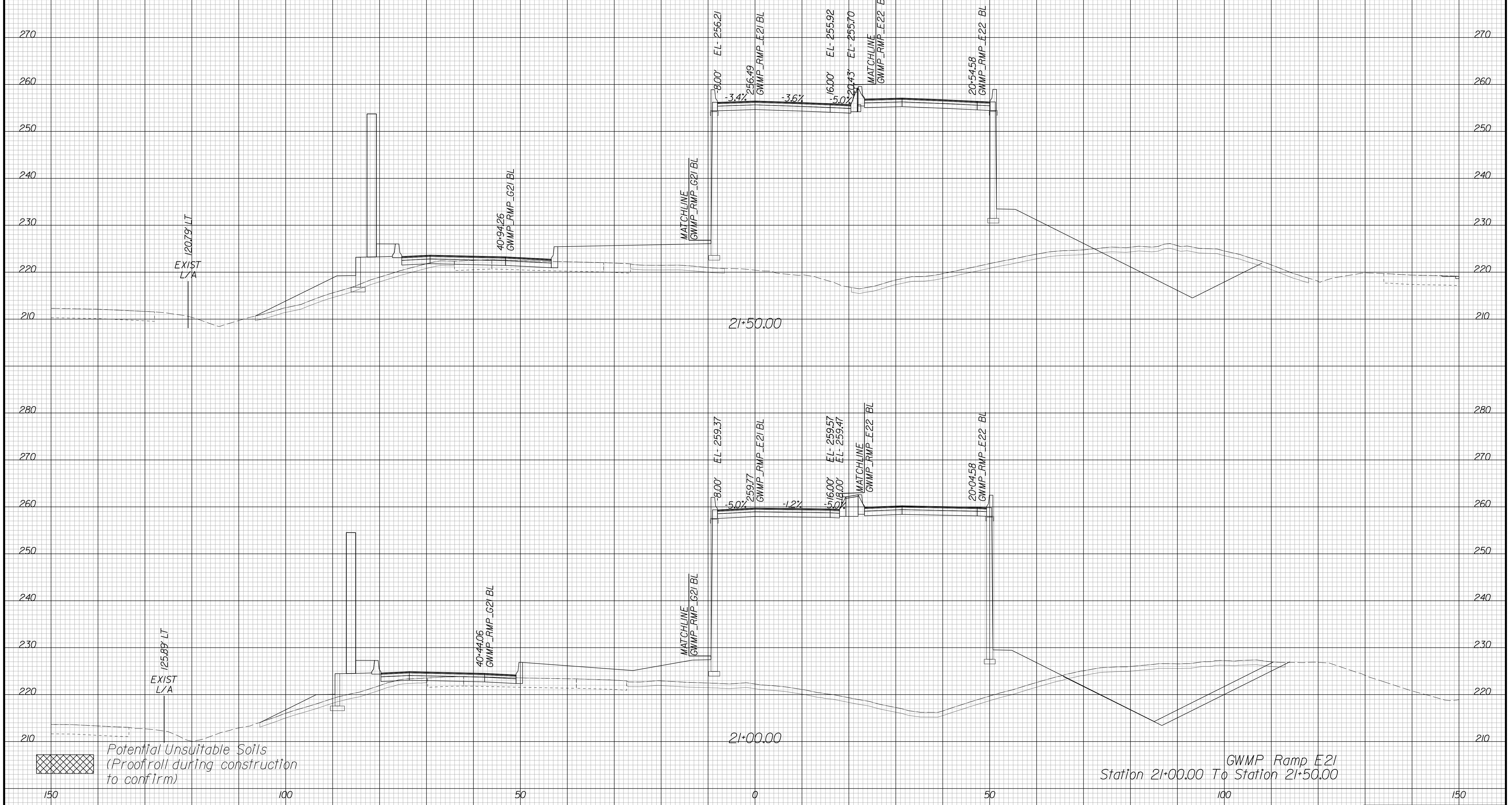
CROSS SECTIONS

SCALE 1 IN. = 10 FT

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

REVISED	STATE	ROUTE	STATE	PROJECT	SHEET NO.
	VA.	495		0495-029-419	X215 AREA 4

Cross Section Labels Are Pertinent Only To The Roadway
Associated To The Alignment In Focus. For Labels On Other
Roadway See The Appropriate Cross Section Sheet.



GWMP Ramp E21
Station 21+00.00 To Station 21+50.00

PROJECT	SHEET NO.
0495-029-419	X215

APPROVED FOR CONSTRUCTION

PROJECT MANAGER VDOT - Bimbal Stab PE (703) 259-2362
SURVEYED BY DATE BDA - Nicholas Kougoulis LS (703) 334-0837, 12/2021
DESIGN BY BDA - Darrell Eischer BE (703) 334-0823, Dexberry - Ron Jakominich PE (703) 849-0651
SUBSURFACE UTILITY BY DATE Accurmark - Michael Taylor LS (703) 635-3060, 12/2021

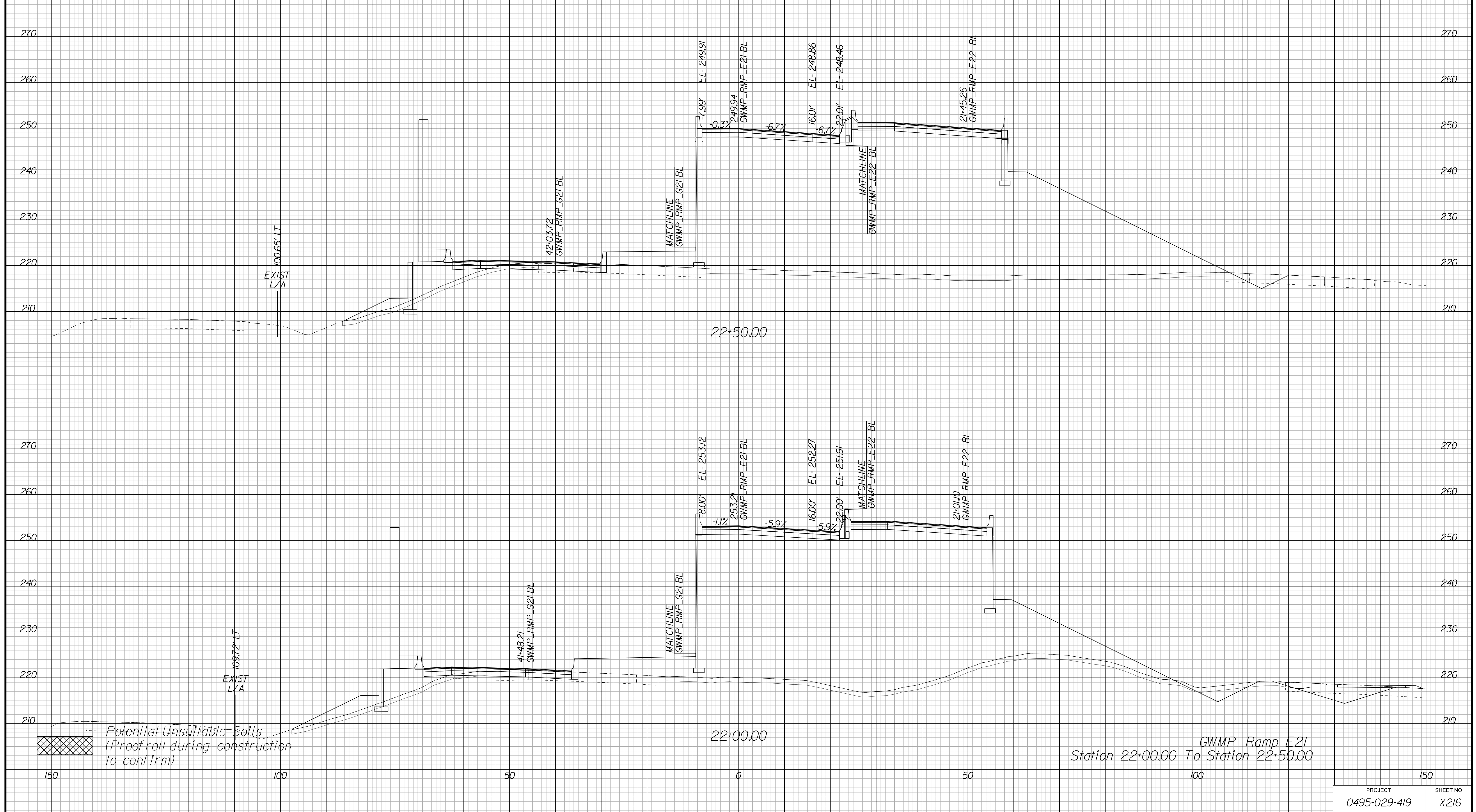
CROSS SECTIONS

SCALE 1 IN. = 10 FT

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

REVISED	STATE	ROUTE	STATE PROJECT	SHEET NO.
	VA.	495	0495-029-419	X216 AREA 4

Cross Section Labels Are Pertinent Only To The Roadway Associated To The Alignment In Focus. For Labels On Other Roadway See The Appropriate Cross Section Sheet.



APPROVED FOR CONSTRUCTION

PROJECT MANAGER VDOT - Bipal Stab, PE, (703) 259-2362
SURVEYED BY, DATE BDA - Nicholas Kougoulis, LS, (703) 334-0837, 12/2021
DESIGN BY BDA - Darrell Eischer, BE, (703) 334-0823, Dextery - Ron Jakominich, PE, (703) 849-0651
SUBSURFACE UTILITY BY, DATE Accurmark - Michael Taylor, LS, (703) 635-3060, 12/2021

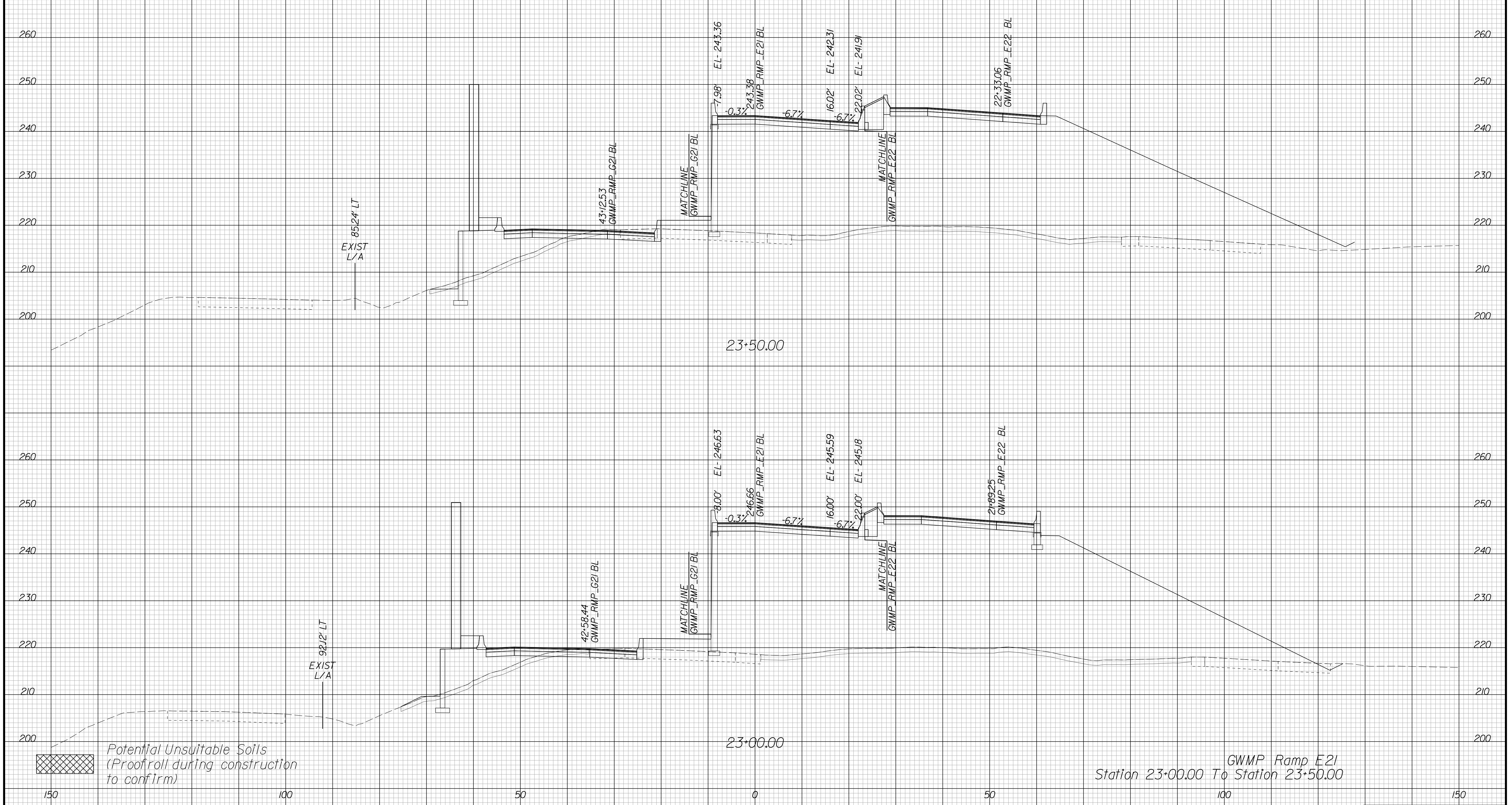
CROSS SECTIONS

SCALE 1 IN. = 10 FT

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

REVISED	STATE	ROUTE	STATE	PROJECT	SHEET NO.
	VA.	495		0495-029-419	X217 AREA 4

Cross Section Labels Are Pertinent Only To The Roadway Associated To The Alignment In Focus. For Labels On Other Roadway See The Appropriate Cross Section Sheet.



Potential Unsuitable Soils (Proofroll during construction to confirm)

GWMP Ramp E21 Station 23+00.00 To Station 23+50.00

APPROVED FOR CONSTRUCTION

PROJECT MANAGER VDOT - Bimbal Stab PE (703) 259-2362
SURVEYED BY DATE BDA - Nicholas Kougoulis LS (703) 334-0837, 12/2021
DESIGN BY BDA - Darell Eischer BE (703) 334-0823, Dawbercy - Ron Jakominich PE (703) 849-0651
SUBSURFACE UTILITY BY DATE Accurmark - Michael Taylor LS (703) 635-3060, 12/2021

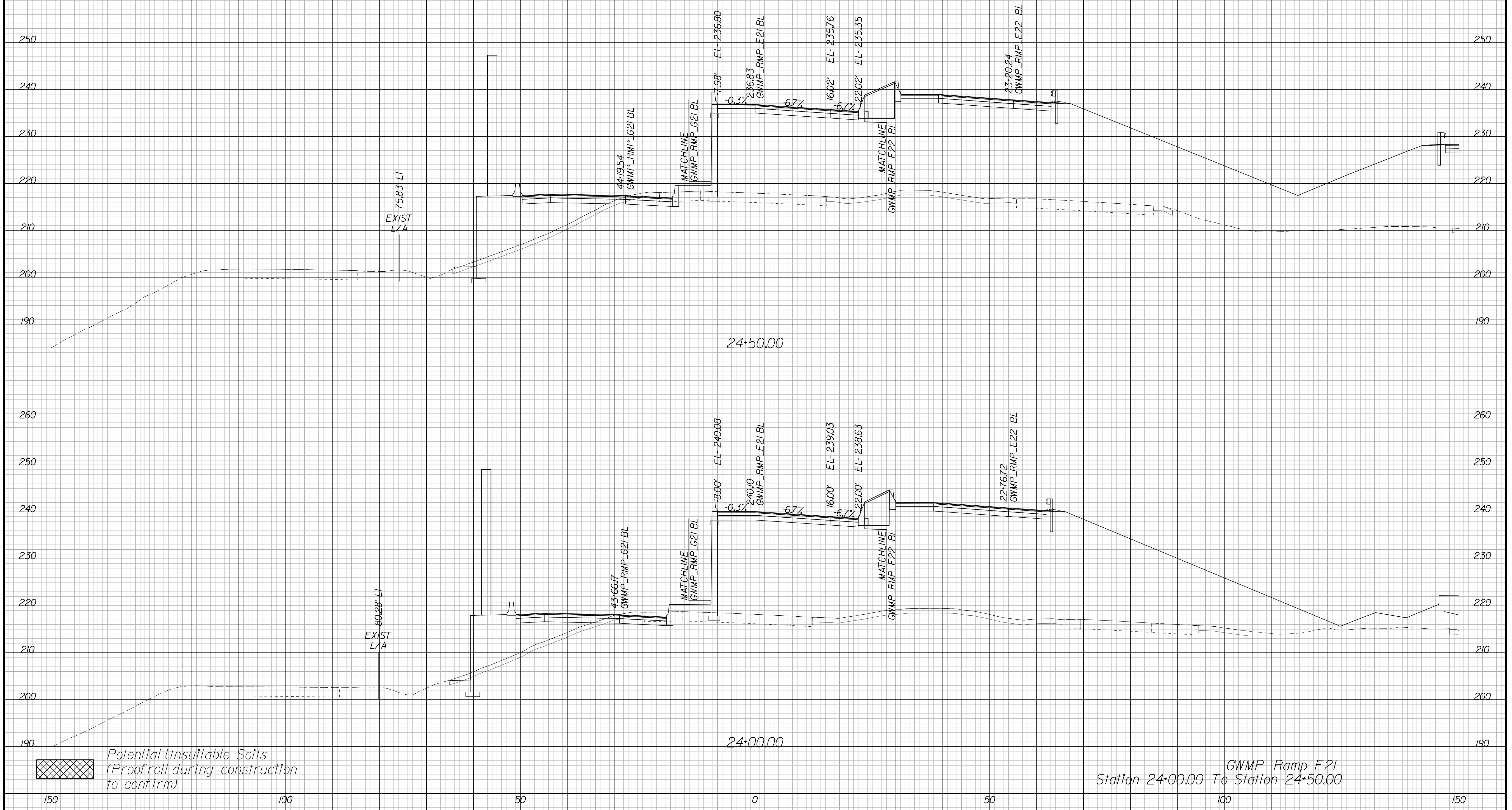
CROSS SECTIONS

SCALE 1 IN. = 10 FT

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

REVISED	STATE	ROUTE	STATE	PROJECT	SHEET NO.
	VA.	495		0495-029-419	X218 AREA 4

Cross Section Labels Are Pertinent Only To The Roadway Associated To The Alignment In Focus. For Labels On Other Roadway See The Appropriate Cross Section Sheet.



GWMP Ramp E21
Station 24+00.00 To Station 24+50.00

PROJECT	SHEET NO.
0495-029-419	X218

APPROVED FOR CONSTRUCTION

PROJECT MANAGER VDOT - Bipal Stab PE (703) 259-2362
SURVEYED BY DATE BDA - Nicholas Kougoulis LS (703) 334-0837, 12/2021
DESIGN BY BDA - Darrell Eischer BE (703) 334-0823, Dexberry - Ron Jakominich PE (703) 849-0651
SUBSURFACE UTILITY BY DATE Accurmark - Michael Taylor LS (703) 635-3060, 12/2021

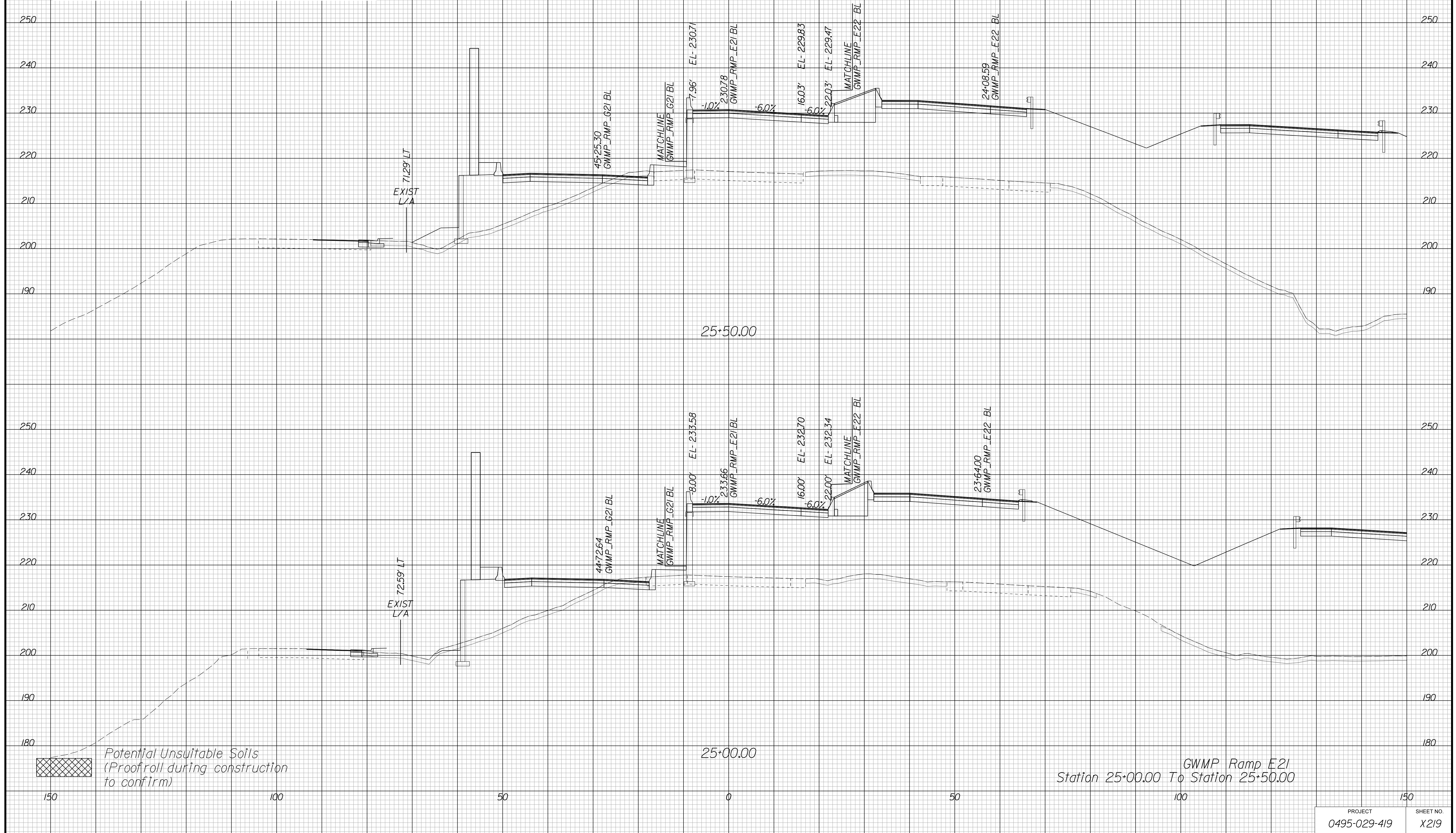
CROSS SECTIONS

SCALE 1 IN. = 10 FT

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

REVISED	STATE	ROUTE	STATE	PROJECT	SHEET NO.
	VA.	495		0495-029-419	X219 AREA 4

Cross Section Labels Are Pertinent Only To The Roadway Associated To The Alignment In Focus. For Labels On Other Roadway See The Appropriate Cross Section Sheet.



APPROVED FOR CONSTRUCTION

PROJECT	SHEET NO.
0495-029-419	X219

PROJECT MANAGER VDOT - Bipal Stab PE (703) 259-2362
SURVEYED BY DATE BDA - Nicholas Kougoulis LS (703) 334-0837, 12/2021
DESIGN BY BDA - Darrell Eischer BE (703) 334-0823, Dawbercy - Ron Jakominich PE (703) 849-0651
SUBSURFACE UTILITY BY DATE Accurmark - Michael Taylor LS (703) 635-3060, 12/2021

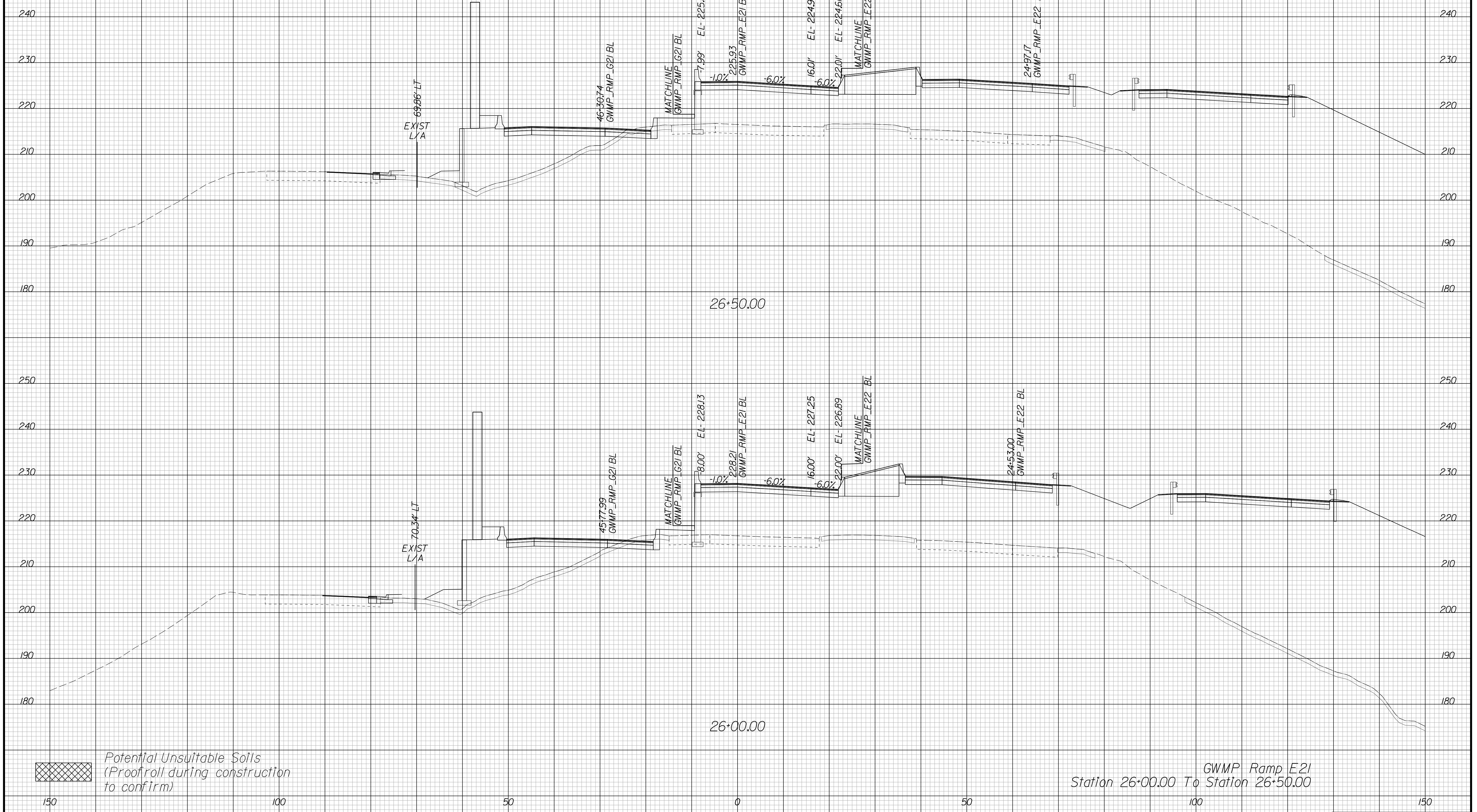
CROSS SECTIONS

SCALE 1 IN. = 10 FT

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

REVISED	STATE	ROUTE	STATE	PROJECT	SHEET NO.
	VA.	495		0495-029-419	X220 AREA 4

Cross Section Labels Are Pertinent Only To The Roadway Associated To The Alignment In Focus. For Labels On Other Roadway See The Appropriate Cross Section Sheet.



GWMP Ramp E21
Station 26+00.00 To Station 26+50.00

Potential Unsuitable Soils
(Proofroll during construction
to confirm)

PROJECT	SHEET NO.
0495-029-419	X220

APPROVED FOR CONSTRUCTION

PROJECT MANAGER VDOT - Bimbal Stab PE (703) 259-2362
SURVEYED BY, DATE BDA - Nicholas Kougoulis LS (703) 334-0837, 12/2021
DESIGN BY BDA - Darrell Eischer BE (703) 334-0823, Dewberry - Ron Jakominich PE (703) 849-0651
SUBSURFACE UTILITY BY, DATE Accurmark - Michael Taylor LS (703) 635-3060, 12/2021

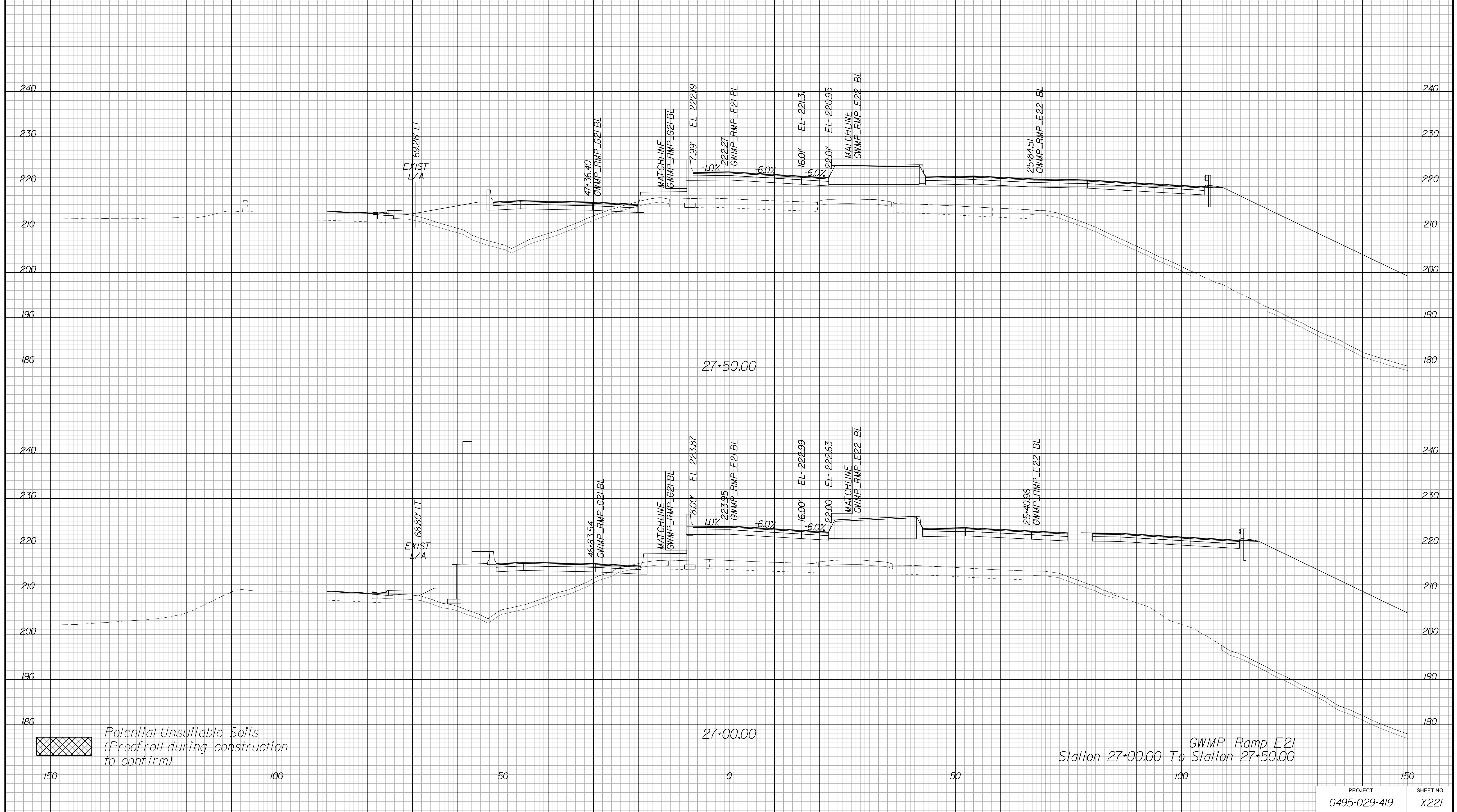
CROSS SECTIONS

SCALE 1 IN. = 10 FT

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

REVISED	STATE	ROUTE	STATE	PROJECT	SHEET NO.
	VA.	495		0495-029-419	X221 AREA 4

Cross Section Labels Are Pertinent Only To The Roadway Associated To The Alignment In Focus. For Labels On Other Roadway See The Appropriate Cross Section Sheet.



GWMP Ramp E21
Station 27+00.00 To Station 27+50.00

PROJECT	SHEET NO.
0495-029-419	X221

APPROVED FOR CONSTRUCTION

PROJECT MANAGER VDOT - Bipal Stab PE (703) 259-2362
SURVEYED BY, DATE BDA - Nicholas Kougoulis LS (703) 334-0837, 12/2021
DESIGN BY BDA - Darrell Eischer BE (703) 334-0823, Daxbery - Ron Jakominich PE (703) 849-0651
SUBSURFACE UTILITY BY, DATE Accurmark - Michael Taylor LS (703) 635-3060, 12/2021

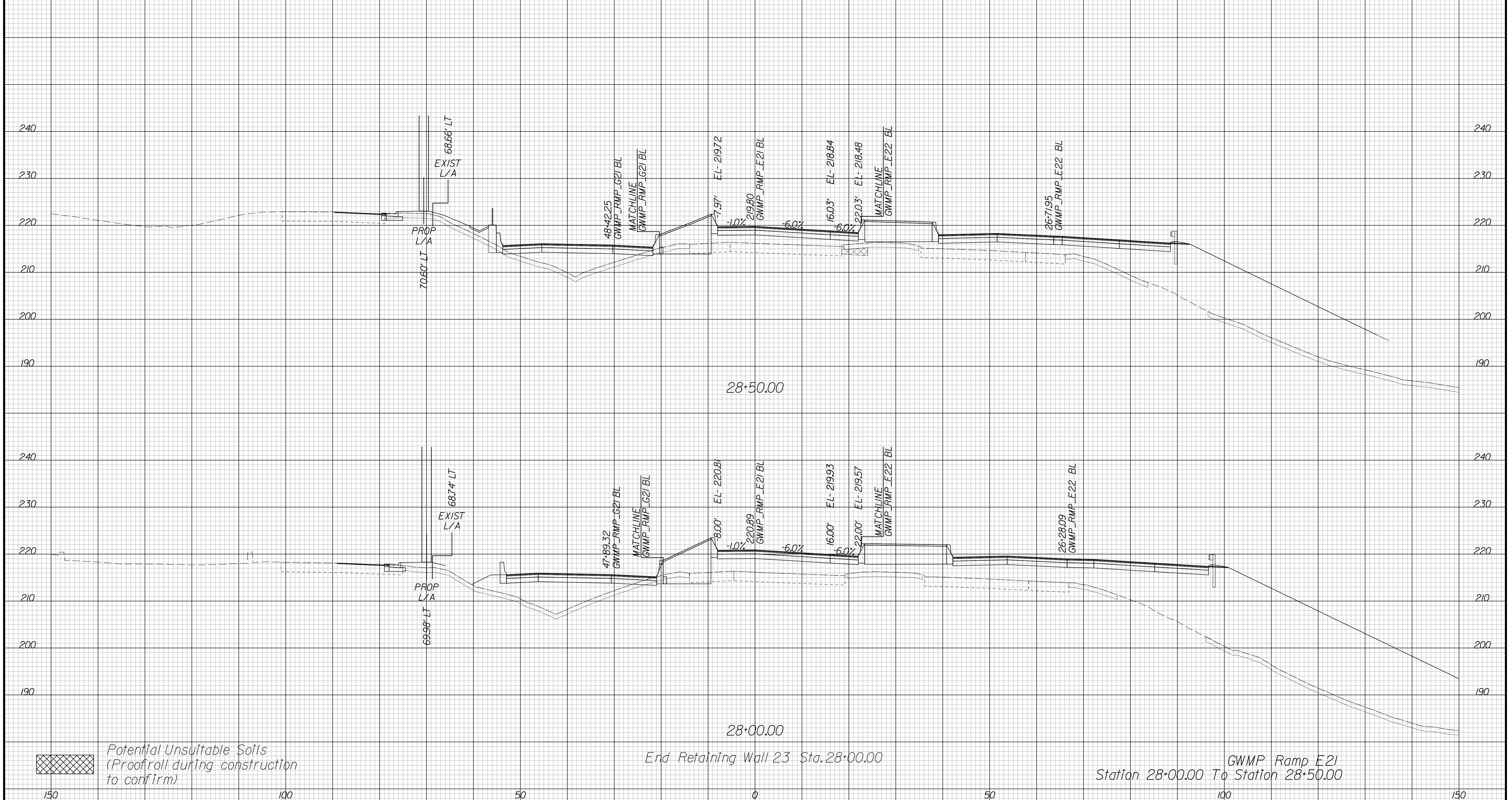
CROSS SECTIONS

SCALE 1 IN. = 10 FT

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

REVISED	STATE	ROUTE	STATE	PROJECT	SHEET NO.
	VA.	495		0495-029-419	X222 AREA 4

Cross Section Labels Are Pertinent Only To The Roadway Associated To The Alignment In Focus. For Labels On Other Roadway See The Appropriate Cross Section Sheet.



Potential Unsuitable Soils (Proofroll during construction to confirm)

End Retaining Wall 23 Sta. 28+00.00

GWMP Ramp E21 Station 28+00.00 To Station 28+50.00

PROJECT	SHEET NO.
0495-029-419	X222

APPROVED FOR CONSTRUCTION

PROJECT MANAGER VDOT - Bipal Stab PE (703) 259-2362
SURVEYED BY DATE BDA - Nicholas Kougoulis LS (703) 334-0837, 12/2021
DESIGN BY BDA - Darrell Eischer BE (703) 334-0823, Dexberry - Ron Jakominich PE (703) 849-0651
SUBSURFACE UTILITY BY DATE Accurmark - Michael Taylor LS (703) 635-3060, 12/2021

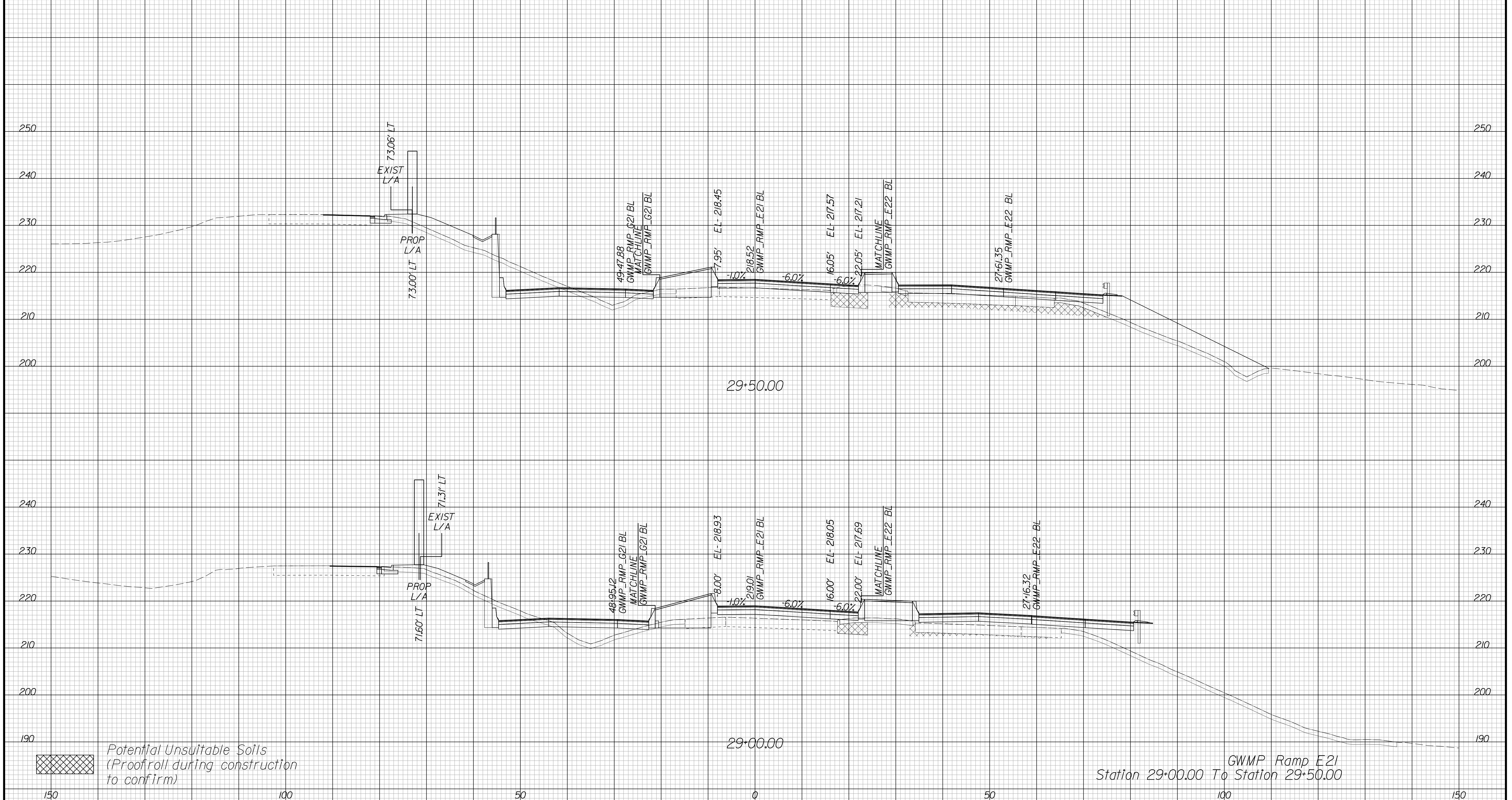
CROSS SECTIONS

SCALE 1 IN. = 10 FT

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

REVISED	STATE	ROUTE	STATE PROJECT	SHEET NO.
	VA.	495	0495-029-419	X223 AREA 4

Cross Section Labels Are Pertinent Only To The Roadway Associated To The Alignment In Focus. For Labels On Other Roadway See The Appropriate Cross Section Sheet.



GWMP Ramp E21
Station 29+00.00 To Station 29+50.00

150 100 50 0 50 100 150

PROJECT	SHEET NO.
0495-029-419	X223

APPROVED FOR CONSTRUCTION

PROJECT MANAGER VDOT - Bipal Stab PE (703) 259-2362
SURVEYED BY, DATE BDA - Nicholas Kougoulis LS (703) 334-0837, 12/2021
DESIGN BY BDA - Darrell Eischer BE (703) 334-0823, Dexberry - Ron Jakominich PE (703) 849-0651
SUBSURFACE UTILITY BY, DATE Accurmark - Michael Taylor LS (703) 635-3060, 12/2021

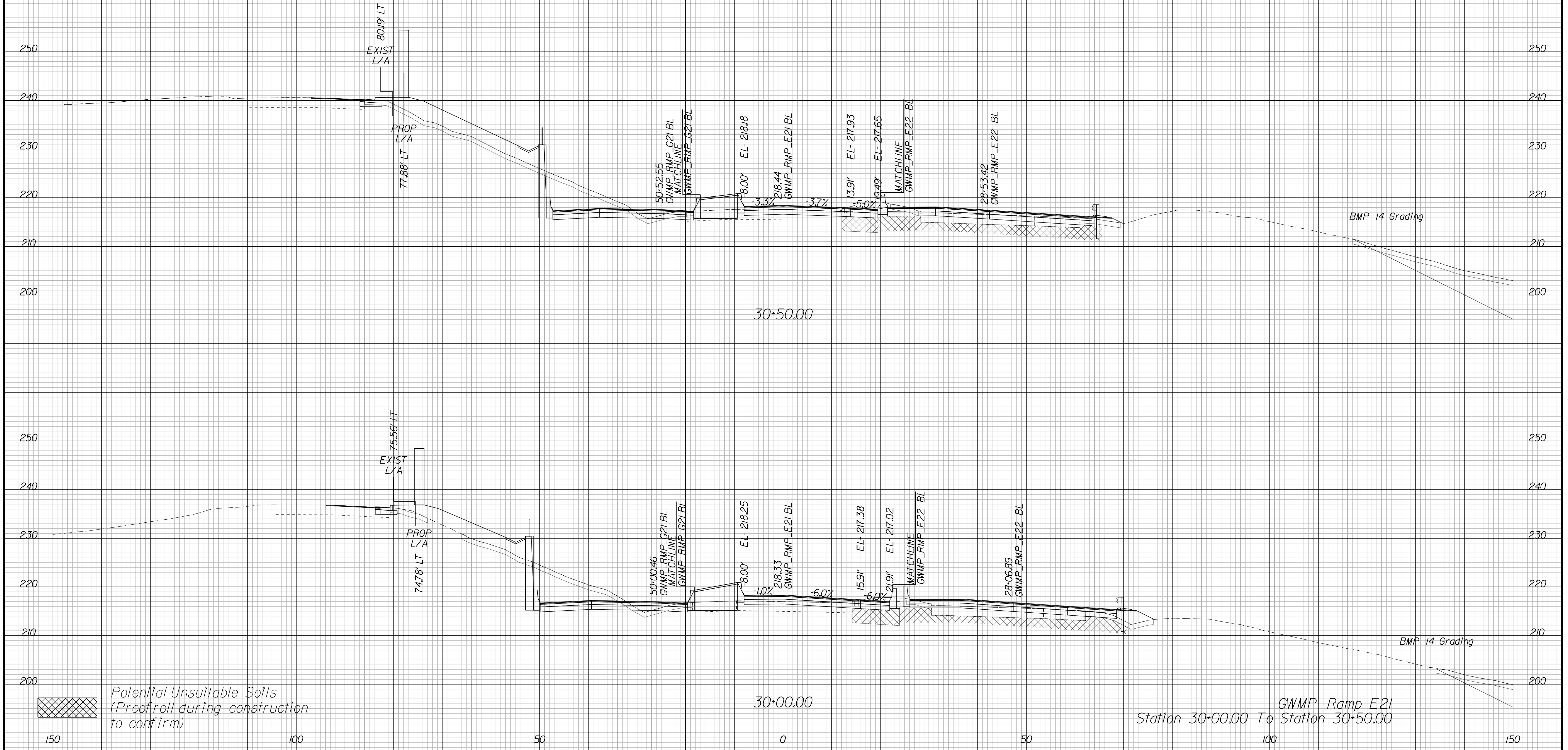
CROSS SECTIONS

SCALE 1 IN. = 10 FT

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

REVISED	STATE	ROUTE	STATE	PROJECT	SHEET NO.
	VA.	495		0495-029-419	X224 AREA 4

Cross Section Labels Are Pertinent Only To The Roadway Associated To The Alignment In Focus. For Labels On Other Roadway See The Appropriate Cross Section Sheet.



Station 30+00.00 To Station 30+50.00

PROJECT	SHEET NO.
0495-029-419	X224

APPROVED FOR CONSTRUCTION

PROJECT MANAGER VDOT - Bipal Stab, PE, (703) 259-2362
SURVEYED BY, DATE BDA - Nicholas Kougoulis, LS, (703) 334-0837, 12/2021
DESIGN BY BDA - Darrell Eischer, BE, (703) 334-0823, Dewberry - Ron Jakominich, PE, (703) 849-0651
SUBSURFACE UTILITY BY, DATE Accurmark - Michael Taylor, LS, (703) 635-3060, 12/2021

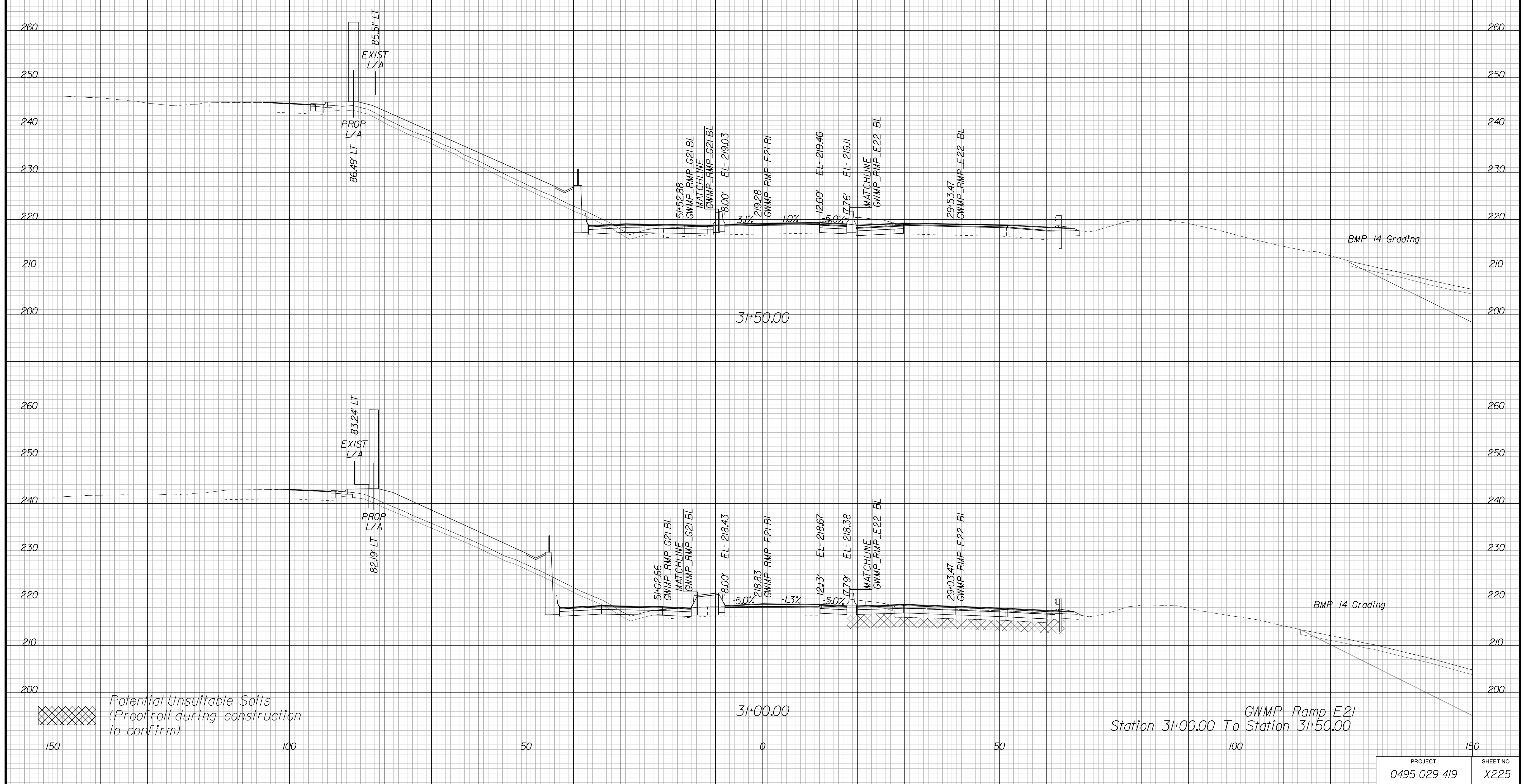
CROSS SECTIONS

SCALE 1 IN. = 10 FT

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

REVISED	STATE	ROUTE	STATE	PROJECT	SHEET NO.
	VA.	495		0495-029-419	X225 AREA 4

Cross Section Labels Are Pertinent Only To The Roadway Associated To The Alignment In Focus. For Labels On Other Roadway See The Appropriate Cross Section Sheet.



APPROVED FOR CONSTRUCTION

PROJECT MANAGER VDOT - Bimbal Stab PE (703) 259-2362
SURVEYED BY DATE BDA - Nicholas Kougoulis LS (703) 334-0837, 12/2021
DESIGN BY BDA - Darrell Eischer BE (703) 334-0823, Dexberry - Ron Jakominich PE (703) 849-0651
SUBSURFACE UTILITY BY DATE Accurmark - Michael Taylor LS (703) 635-3060, 12/2021

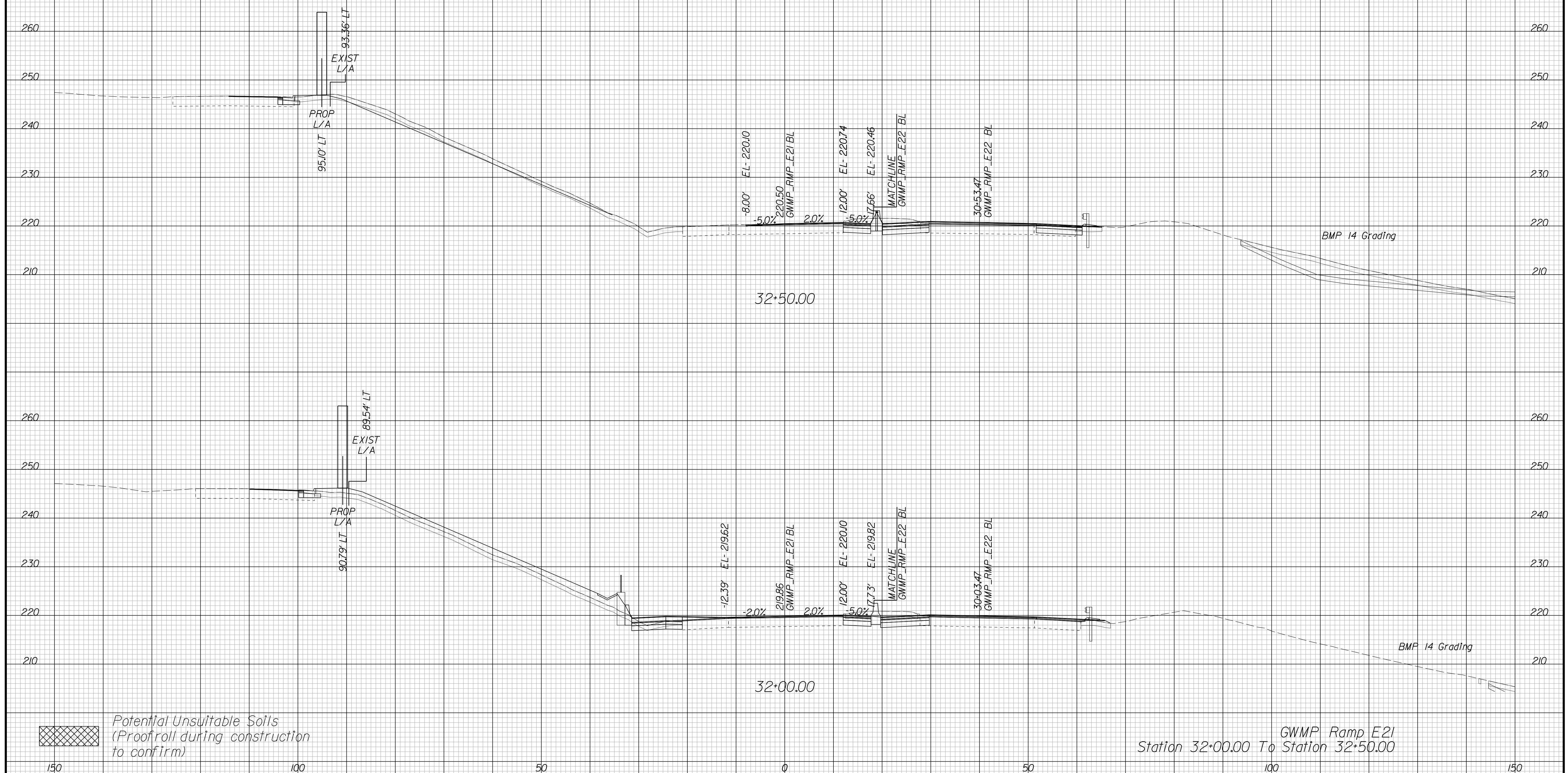
CROSS SECTIONS

SCALE 1 IN. = 10 FT

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

REVISED	STATE	ROUTE	STATE	PROJECT	SHEET NO.
	VA.	495		0495-029-419	X226 AREA 4

Cross Section Labels Are Pertinent Only To The Roadway Associated To The Alignment In Focus. For Labels On Other Roadway See The Appropriate Cross Section Sheet.



APPROVED FOR CONSTRUCTION

PROJECT MANAGER VDOT - Bipal Stab, PE, (703) 259-2362
SURVEYED BY, DATE BDA - Nicholas Kougoulis, LS, (703) 334-0837, 12/2021
DESIGN BY BDA - Darrell Eischer, BE, (703) 334-0823, Dewberry - Ron Jakominich, PE, (703) 849-0651
SUBSURFACE UTILITY BY, DATE Accurmark - Michael Taylor, LS, (703) 635-3060, 12/2021

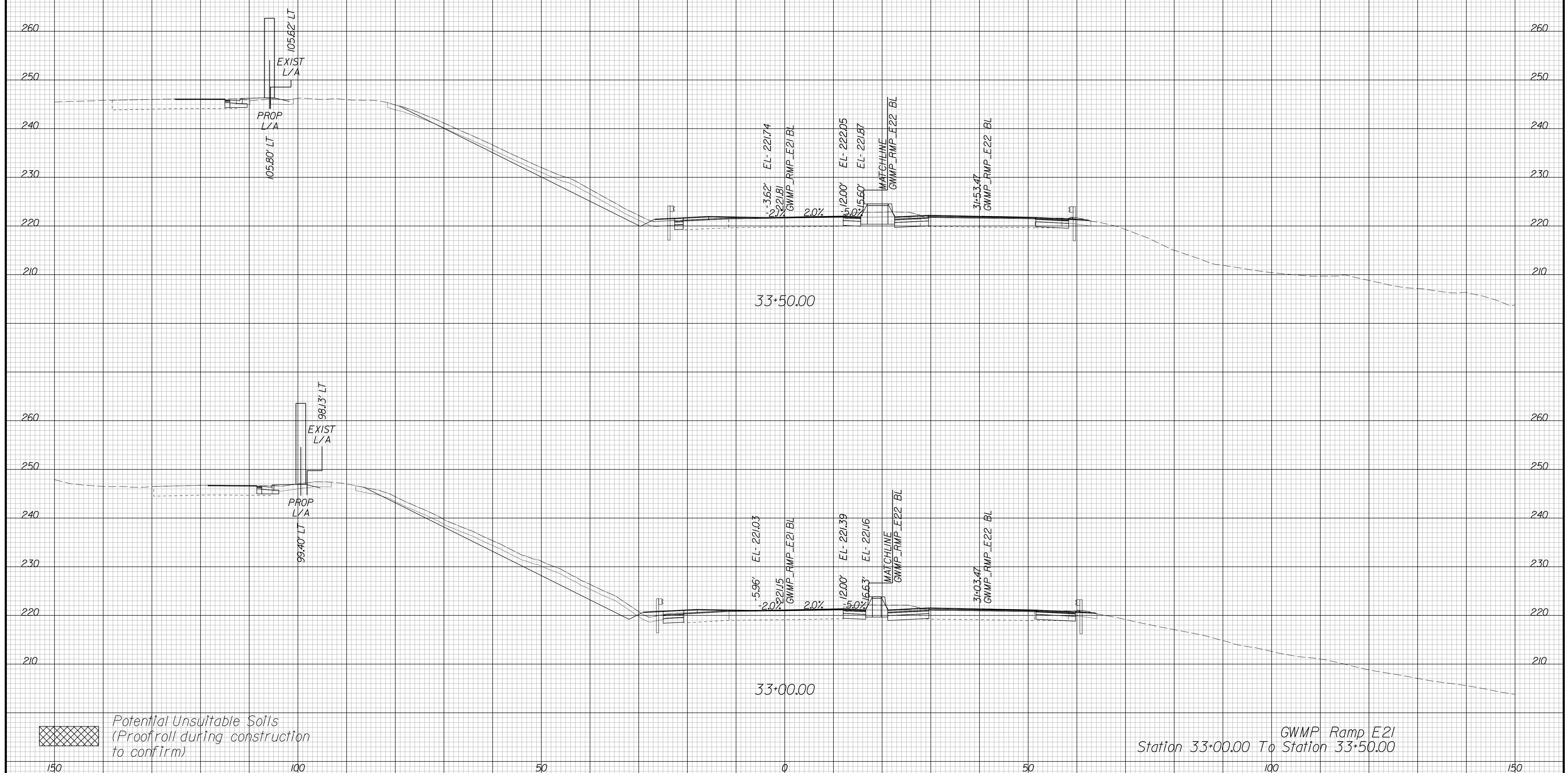
CROSS SECTIONS

SCALE 1 IN. = 10 FT

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

REVISED	STATE	ROUTE	STATE PROJECT	SHEET NO.
	VA.	495	0495-029-419	X227 AREA 4

Cross Section Labels Are Pertinent Only To The Roadway Associated To The Alignment In Focus. For Labels On Other Roadway See The Appropriate Cross Section Sheet.



GWMP Ramp E21
Station 33+00.00 To Station 33+50.00

150 100 50 0 50 100 150

PROJECT	SHEET NO.
0495-029-419	X227

APPROVED FOR CONSTRUCTION

PROJECT MANAGER VDOT - Bimbal Stab PE (703) 259-2362
SURVEYED BY, DATE BDA - Nicholas Kougoulis LS (703) 334-0837, 12/2021
DESIGN BY BDA - Darrell Elischer BE (703) 334-0823, Dewberry - Ron Jakominich PE (703) 849-0651
SUBSURFACE UTILITY BY, DATE Accurmark - Michael Taylor LS (703) 635-3060, 12/2021

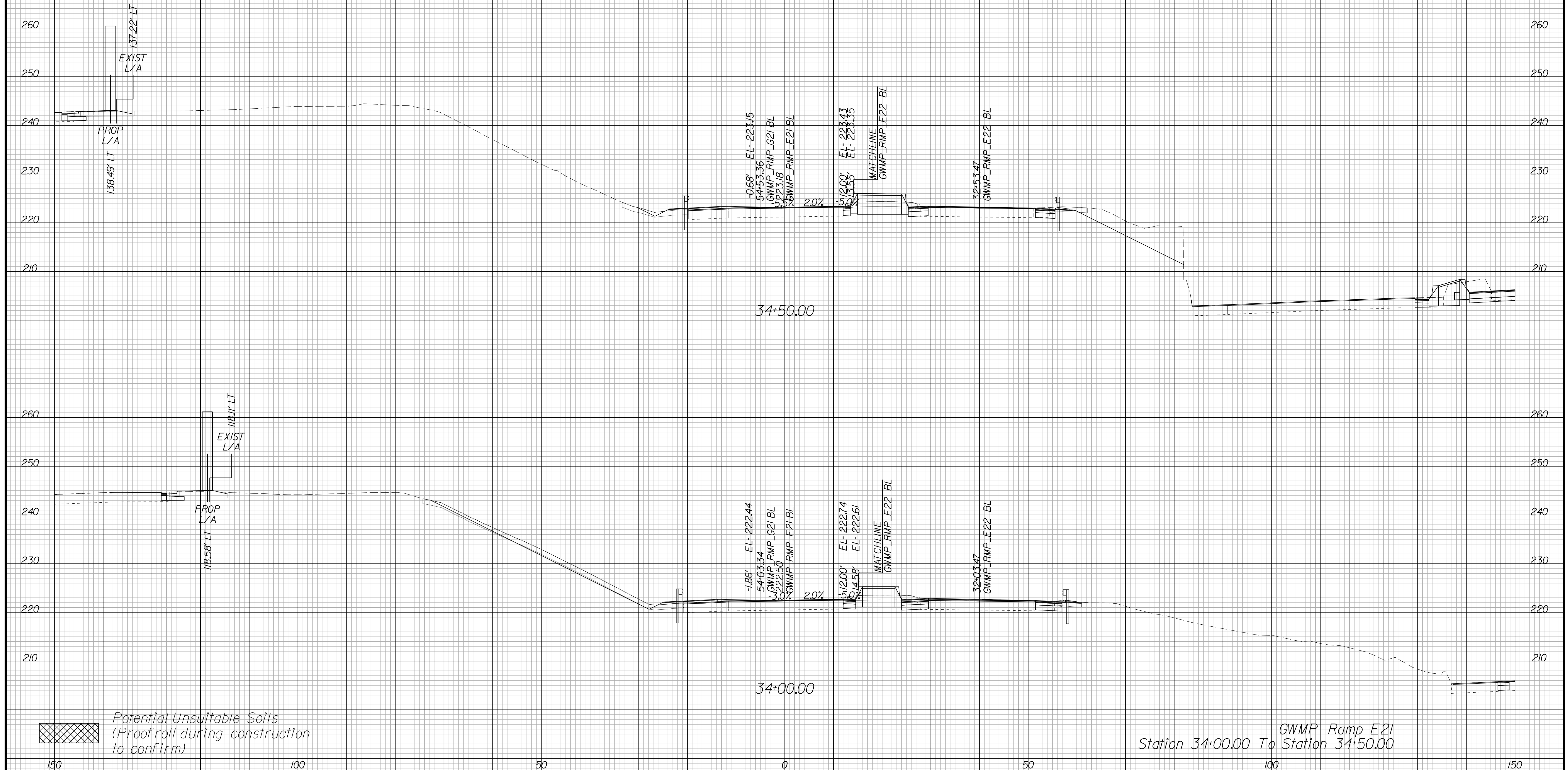
CROSS SECTIONS

SCALE 1 IN. = 10 FT

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

REVISED	STATE	ROUTE	STATE PROJECT	SHEET NO.
	VA.	495	0495-029-419	X228 AREA 4

Cross Section Labels Are Pertinent Only To The Roadway Associated To The Alignment In Focus. For Labels On Other Roadway See The Appropriate Cross Section Sheet.



APPROVED FOR CONSTRUCTION

PROJECT MANAGER VDOT - Bimal Sab PE (703) 259-2362
SURVEYED BY, DATE BDA - Nicholas Kougoulis LS (703) 334-0837, 12/2021
DESIGN BY BDA - Darrell Eischer BE (703) 334-0823, Dewberry - Ron Jakominich PE (703) 849-0651
SUBSURFACE UTILITY BY, DATE Accurmark - Michael Taylor LS (703) 635-3060, 12/2021

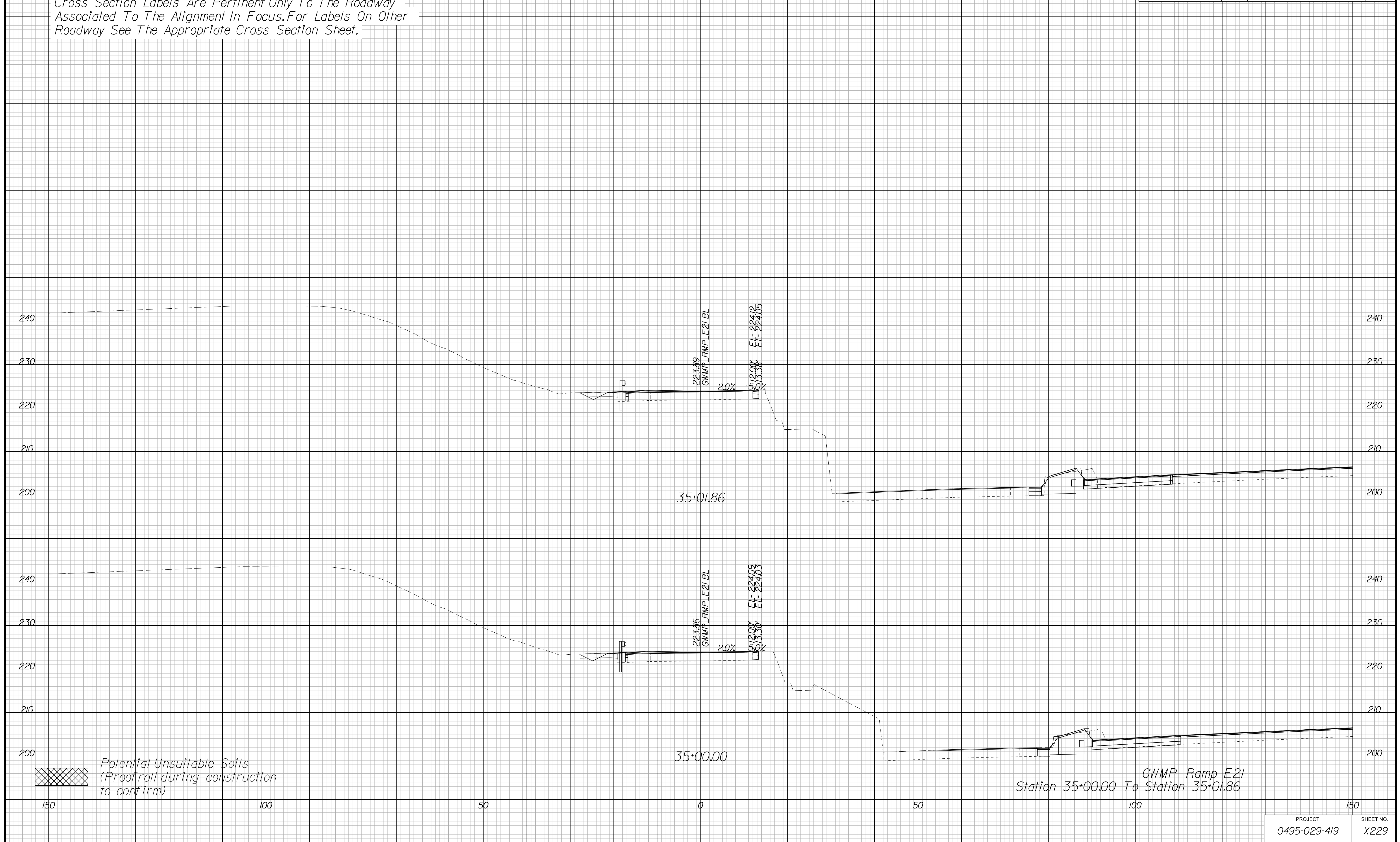
CROSS SECTIONS

SCALE 1 IN. = 10 FT

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

REVISED	STATE	ROUTE	STATE PROJECT	SHEET NO.
	VA.	495	0495-029-419	X229 AREA 4

Cross Section Labels Are Pertinent Only To The Roadway Associated To The Alignment In Focus. For Labels On Other Roadway See The Appropriate Cross Section Sheet.



GWMP Ramp E21
Station 35+00.00 To Station 35+01.86

PROJECT	SHEET NO.
0495-029-419	X229

APPROVED FOR CONSTRUCTION

PROJECT MANAGER VDOT - Bimbal Stab PE (703) 259-2362
SURVEYED BY DATE BDA - Nicholas Kougoulis LS (703) 334-0837, 12/2021
DESIGN BY BDA - Darell Eischer BE (703) 334-0823, Dexberry - Ron Jakominich PE (703) 849-0651
SUBSURFACE UTILITY BY DATE Accurmark - Michael Taylor LS (703) 635-3060, 12/2021

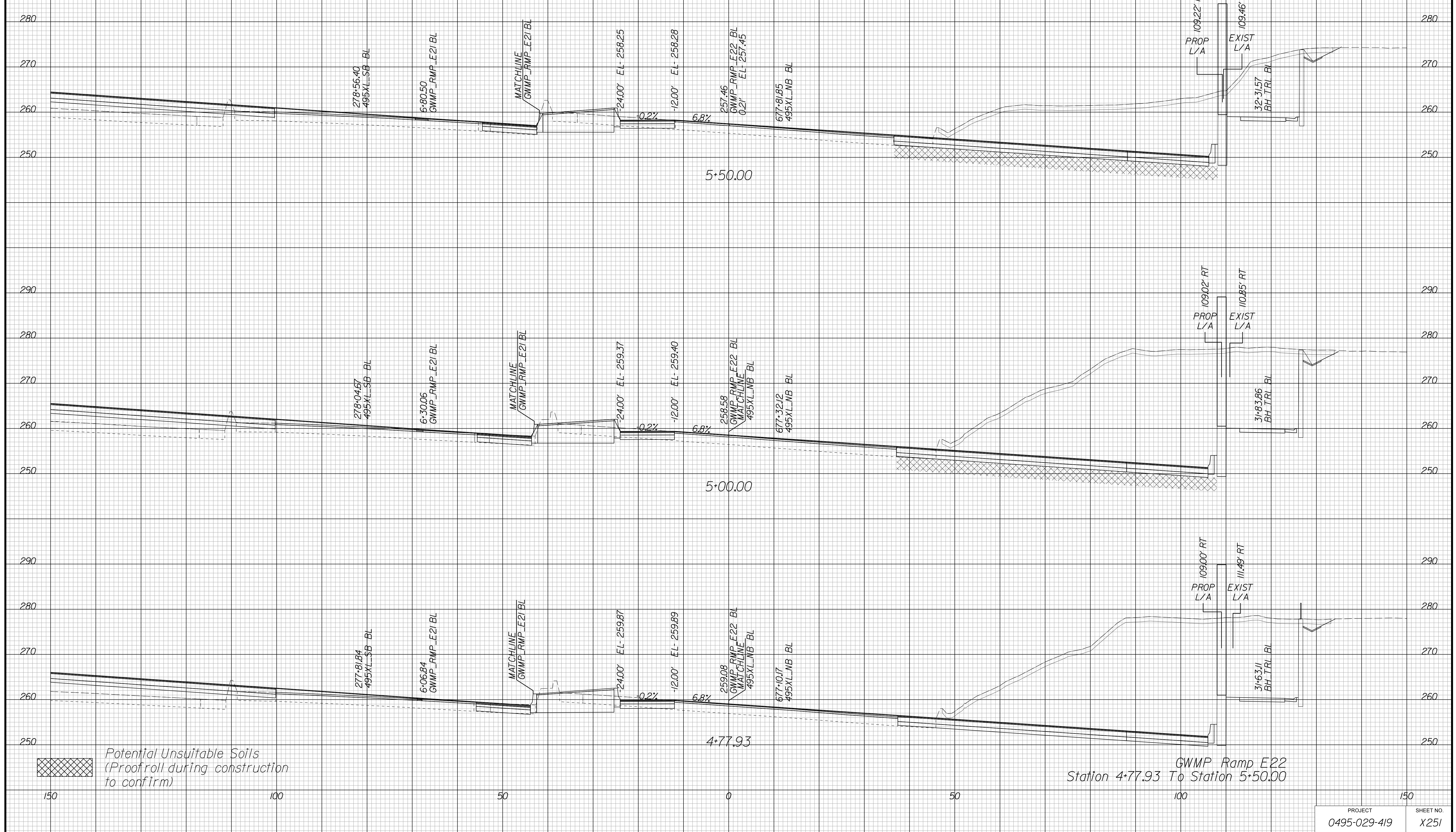
CROSS SECTIONS

SCALE 1 IN. = 10 FT

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

REVISED	STATE	ROUTE	STATE	PROJECT	SHEET NO.
	VA.	495		0495-029-419	X25/ AREA 4

Cross Section Labels Are Pertinent Only To The Roadway Associated To The Alignment In Focus. For Labels On Other Roadway See The Appropriate Cross Section Sheet.



APPROVED FOR CONSTRUCTION

PROJECT	SHEET NO.
0495-029-419	X25/

PROJECT MANAGER VDOT - Bimbal Stab PE (703) 259-2362
SURVEYED BY DATE BDA - Nicholas Kougoulis LS (703) 334-0837, 12/2021
DESIGN BY BDA - Darrell Eischer BE (703) 334-0823, Dexberry - Ron Jakominich PE (703) 849-0651
SUBSURFACE UTILITY BY DATE Accurmark - Michael Taylor LS (703) 635-3060, 12/2021

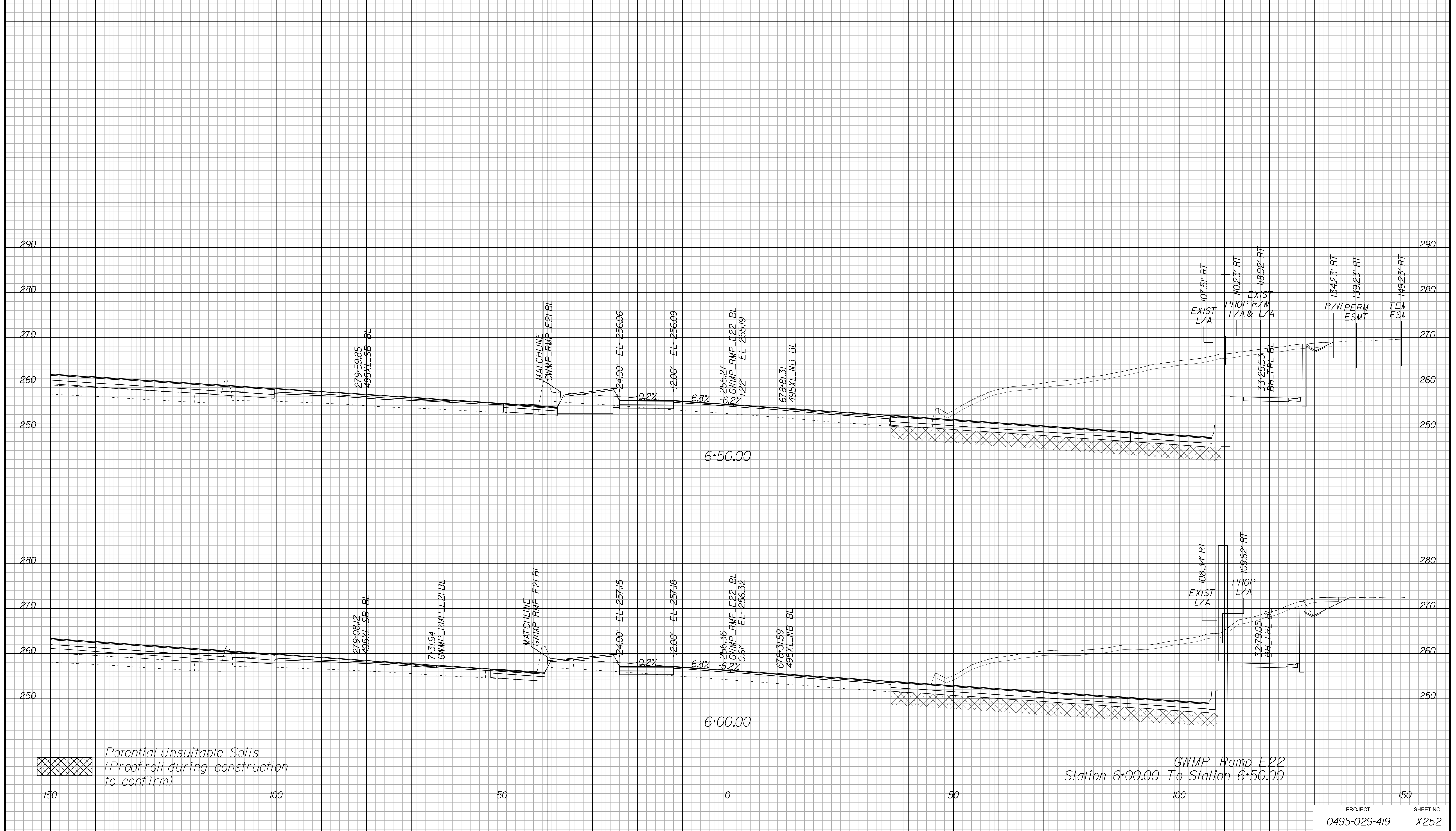
CROSS SECTIONS

SCALE 1 IN. = 10 FT

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

REVISED	STATE	ROUTE	STATE PROJECT	SHEET NO.
	VA.	495	0495-029-419	X252 AREA 4

Cross Section Labels Are Pertinent Only To The Roadway Associated To The Alignment In Focus. For Labels On Other Roadway See The Appropriate Cross Section Sheet.



APPROVED FOR CONSTRUCTION

PROJECT MANAGER VDOT - Bipal Shab PE (703) 259-2362
SURVEYED BY DATE BDA - Nicholas Kougoulis LS (703) 334-0837, 12/2021
DESIGN BY BDA - Darrell Eischer BE (703) 334-0823, Dexberry - Ron Jakominich PE (703) 849-0651
SUBSURFACE UTILITY BY DATE Accurmark - Michael Taylor LS (703) 635-3060, 12/2021

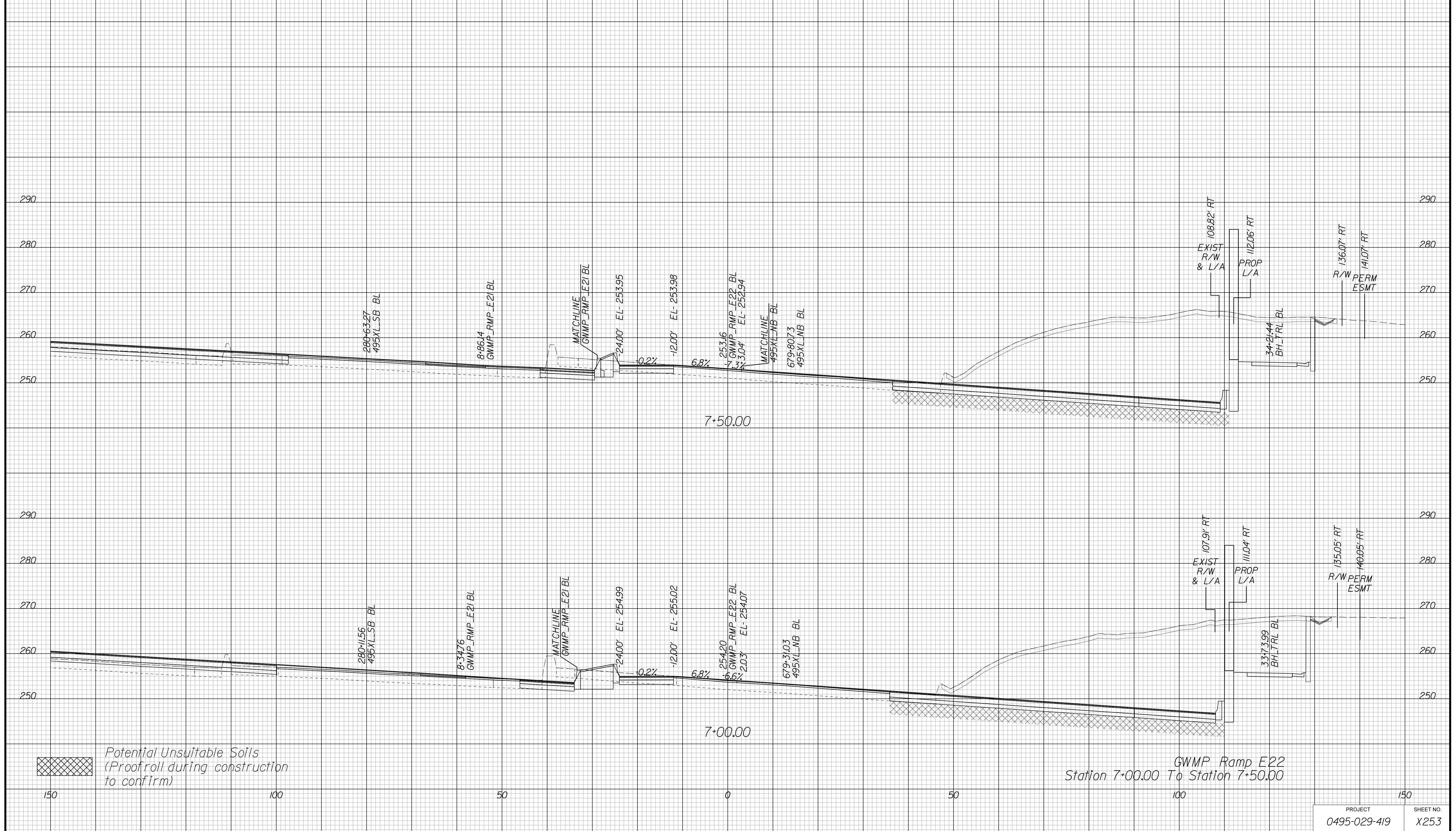
CROSS SECTIONS

SCALE 1 IN. = 10 FT

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

REVISED	STATE	ROUTE	STATE PROJECT	SHEET NO.
	VA.	495	0495-029-419	X253 AREA 4

Cross Section Labels Are Pertinent Only To The Roadway Associated To The Alignment In Focus. For Labels On Other Roadway See The Appropriate Cross Section Sheet.



PROJECT	SHEET NO.
0495-029-419	X253

APPROVED FOR CONSTRUCTION

PROJECT MANAGER VDOT - Bimbal Stab PE (703) 259-2362
SURVEYED BY DATE BDA - Nicholas Kougoulis LS (703) 334-0837, 12/2021
DESIGN BY BDA - Darrell Elischer BE (703) 334-0823, Dawberly - Ron Jakominich PE (703) 849-0651
SUBSURFACE UTILITY BY DATE Accurmark - Michael Taylor LS (703) 635-3060, 12/2021

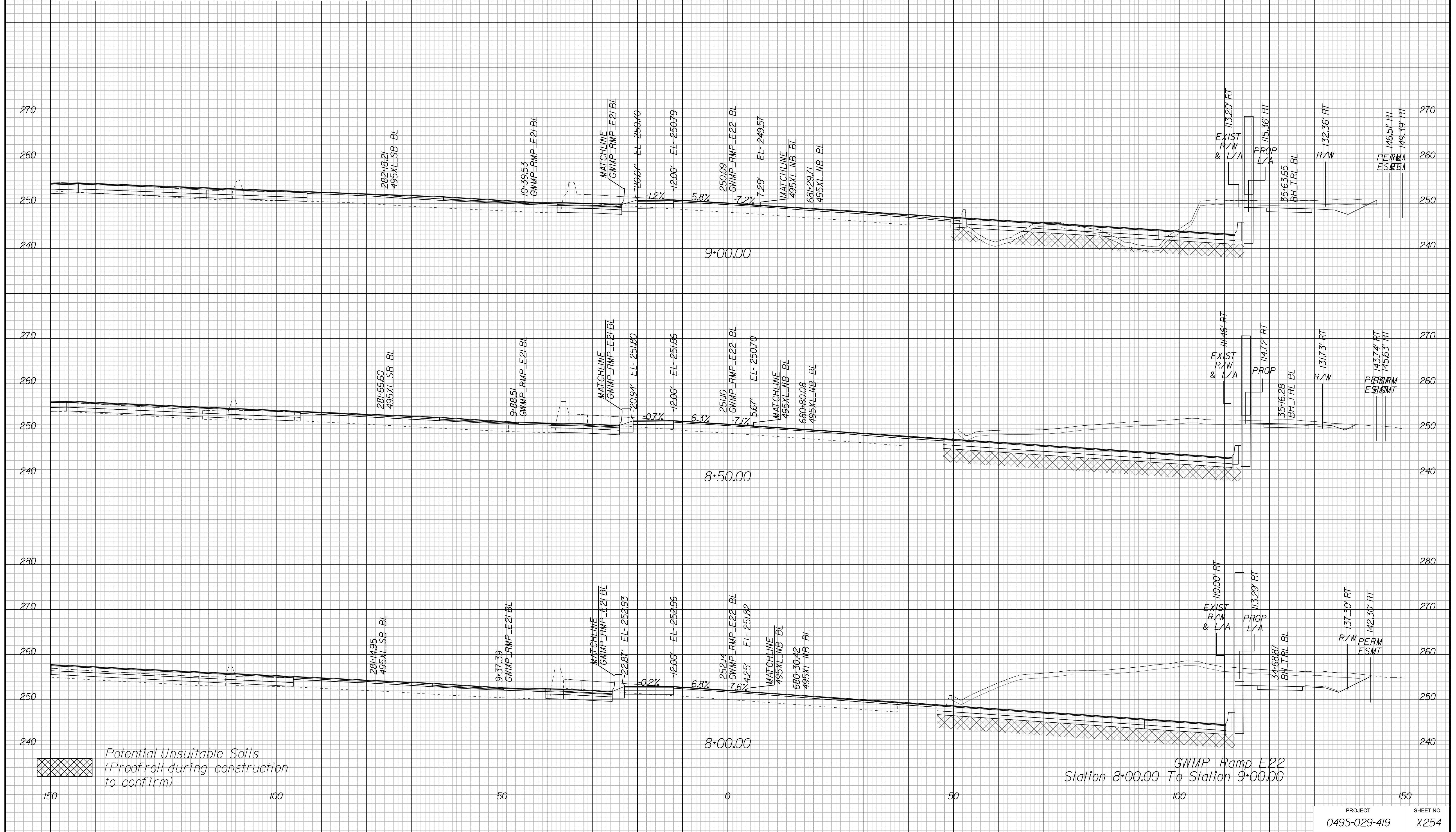
CROSS SECTIONS

SCALE 1 IN. = 10 FT

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

REVISED	STATE	ROUTE	STATE PROJECT	SHEET NO.
	VA.	495	0495-029-419	X254 AREA 4

Cross Section Labels Are Pertinent Only To The Roadway Associated To The Alignment In Focus. For Labels On Other Roadway See The Appropriate Cross Section Sheet.



APPROVED FOR CONSTRUCTION

PROJECT MANAGER VDOT - Bimbal Stab PE (703) 259-2362
SURVEYED BY DATE BDA - Nicholas Kougioulis LS (703) 334-0837, 12/2021
DESIGN BY BDA - Darrell Elischer BE (703) 334-0823, Dawbercy - Ron Jakominich PE (703) 849-0651
SUBSURFACE UTILITY BY DATE Accurmark - Michael Taylor LS (703) 635-3060, 12/2021

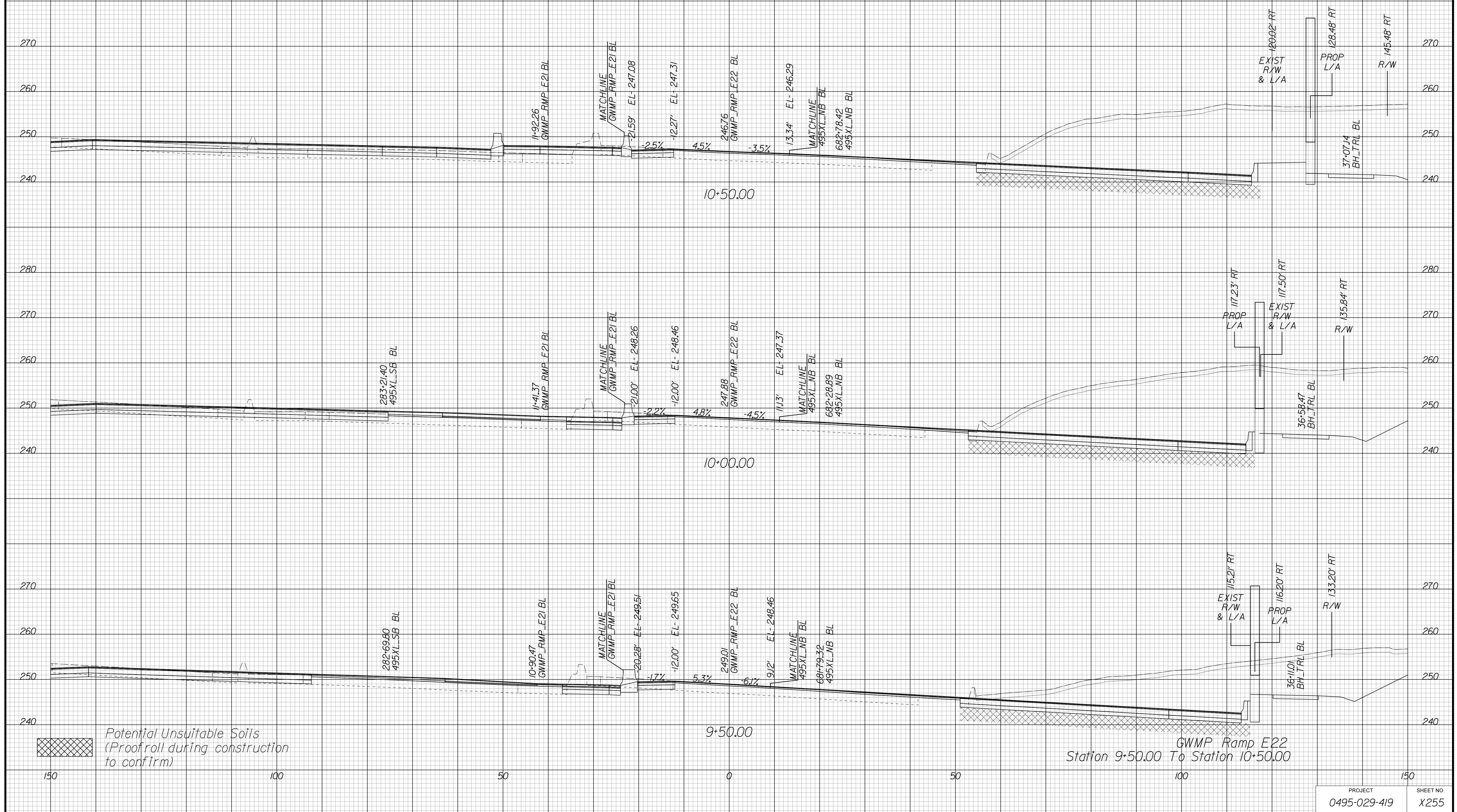
CROSS SECTIONS

SCALE 1 IN. = 10 FT

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

REVISED	STATE	ROUTE	STATE	PROJECT	SHEET NO.
	VA.	495		0495-029-419	X255 AREA 4

Cross Section Labels Are Pertinent Only To The Roadway Associated To The Alignment In Focus. For Labels On Other Roadway See The Appropriate Cross Section Sheet.



APPROVED FOR CONSTRUCTION

PROJECT MANAGER VDOT - Bimal Saha PE (703) 259-2362
SURVEYED BY DATE BDA - Nicholas Kougoulis LS (703) 334-0837, 12/2021
DESIGN BY BDA - Darrell Elischer BE (703) 334-0823, Dexberry - Ron Jakominich PE (703) 849-0651
SUBSURFACE UTILITY BY DATE Accurmark - Michael Taylor LS (703) 635-3060, 12/2021

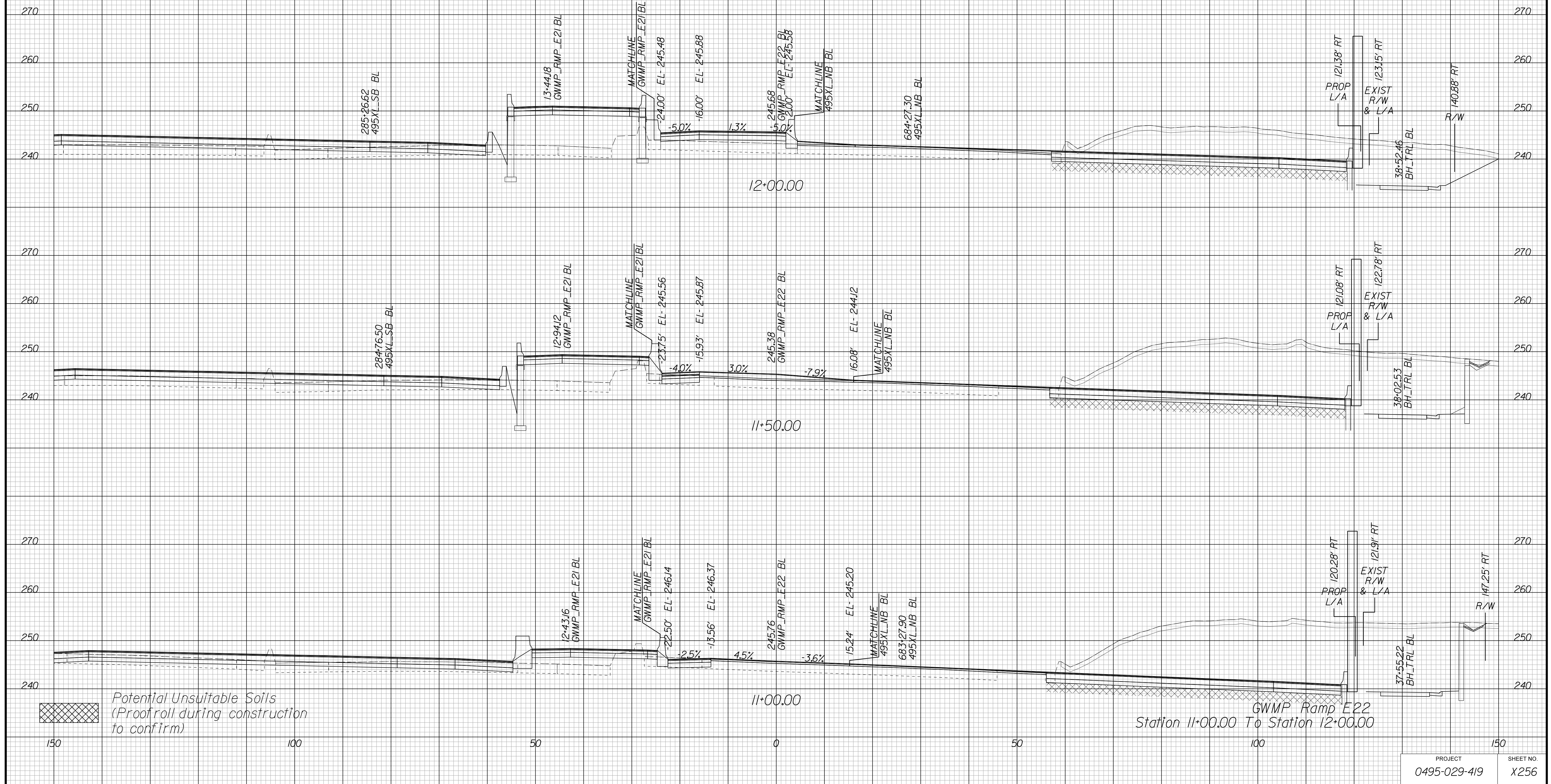
CROSS SECTIONS

SCALE 1 IN. = 10 FT

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

REVISED	STATE	ROUTE	STATE	PROJECT	SHEET NO.
	VA.	495		0495-029-419	X256 AREA 4

Cross Section Labels Are Pertinent Only To The Roadway Associated To The Alignment In Focus. For Labels On Other Roadway See The Appropriate Cross Section Sheet.



APPROVED FOR CONSTRUCTION

PROJECT MANAGER VDOT - Bimbal Stab PE (703) 259-2362
SURVEYED BY DATE BDA - Nicholas Kougoulis LS (703) 334-0837, 12/2021
DESIGN BY BDA - Darrell Eischer BE (703) 334-0823, Daxbery - Ron Jakominich PE (703) 849-0651
SUBSURFACE UTILITY BY DATE Accurmark - Michael Taylor LS (703) 635-3060, 12/2021

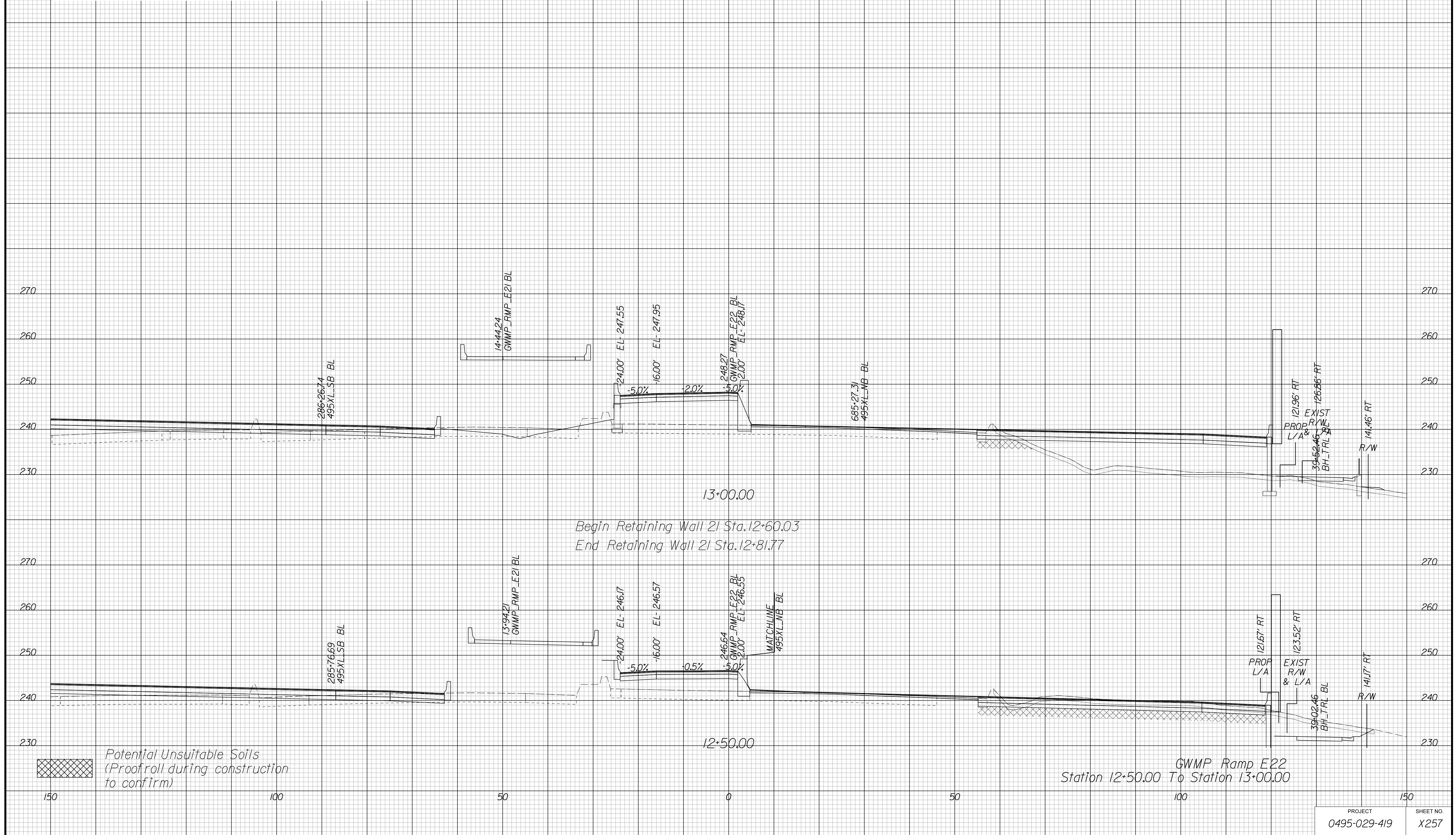
CROSS SECTIONS

SCALE 1 IN. = 10 FT

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

REVISED	STATE	ROUTE	STATE	PROJECT	SHEET NO.
	VA.	495		0495-029-419	X257 AREA 4

Cross Section Labels Are Pertinent Only To The Roadway Associated To The Alignment In Focus. For Labels On Other Roadway See The Appropriate Cross Section Sheet.



PROJECT	SHEET NO.
0495-029-419	X257

APPROVED FOR CONSTRUCTION

PROJECT MANAGER VDOT - Bipal Shah PE (703) 259-2362
SURVEYED BY, DATE BDA - Nicholas Kougoulis LS (703) 334-0837, 12/2021
DESIGN BY BDA - Darrell Eischer BE (703) 334-0823, Dexberry - Ron Jakominich PE (703) 849-0651
SUBSURFACE UTILITY BY, DATE Accurmark - Michael Taylor LS (703) 635-3060, 12/2021

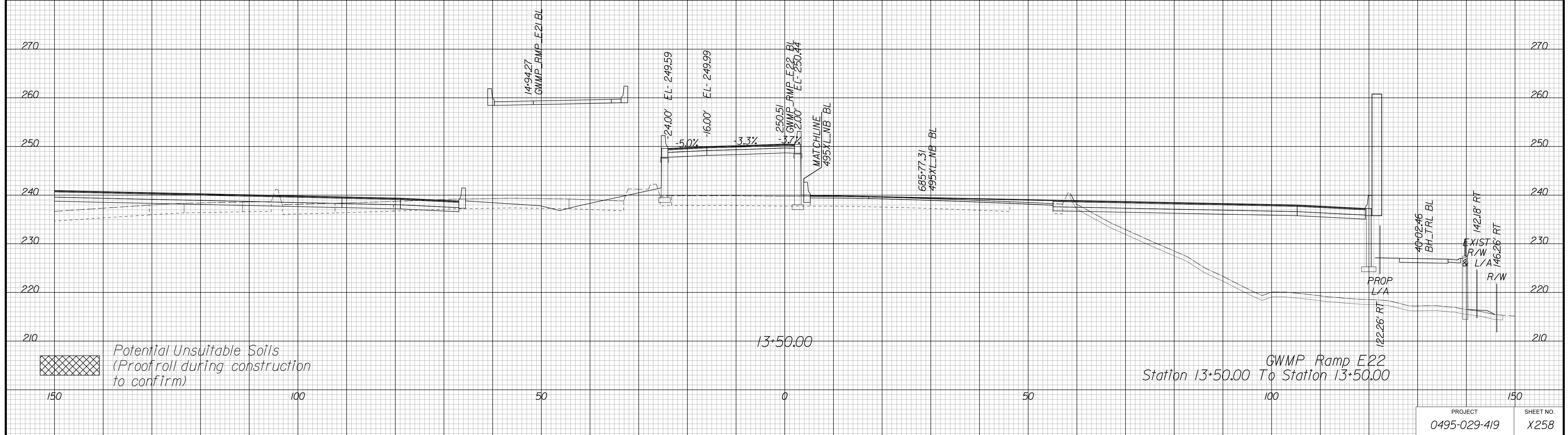
CROSS SECTIONS

SCALE 1 IN. = 10 FT

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

REVISED	STATE	ROUTE	STATE	PROJECT	SHEET NO.
	VA.	495		0495-029-419	X258 AREA 4

Cross Section Labels Are Pertinent Only To The Roadway Associated To The Alignment In Focus. For Labels On Other Roadway See The Appropriate Cross Section Sheet.



APPROVED FOR CONSTRUCTION

PROJECT MANAGER VDOT - Bimbal Stab PE (703) 259-2362
SURVEYED BY DATE BDA - Nicholas Kougoulis LS (703) 334-0837, 12/2021
DESIGN BY BDA - Darrell Eischer BE (703) 334-0823, Dexberry - Ron Jakominich PE (703) 849-0651
SUBSURFACE UTILITY BY DATE Accurmark - Michael Taylor LS (703) 635-3060, 12/2021

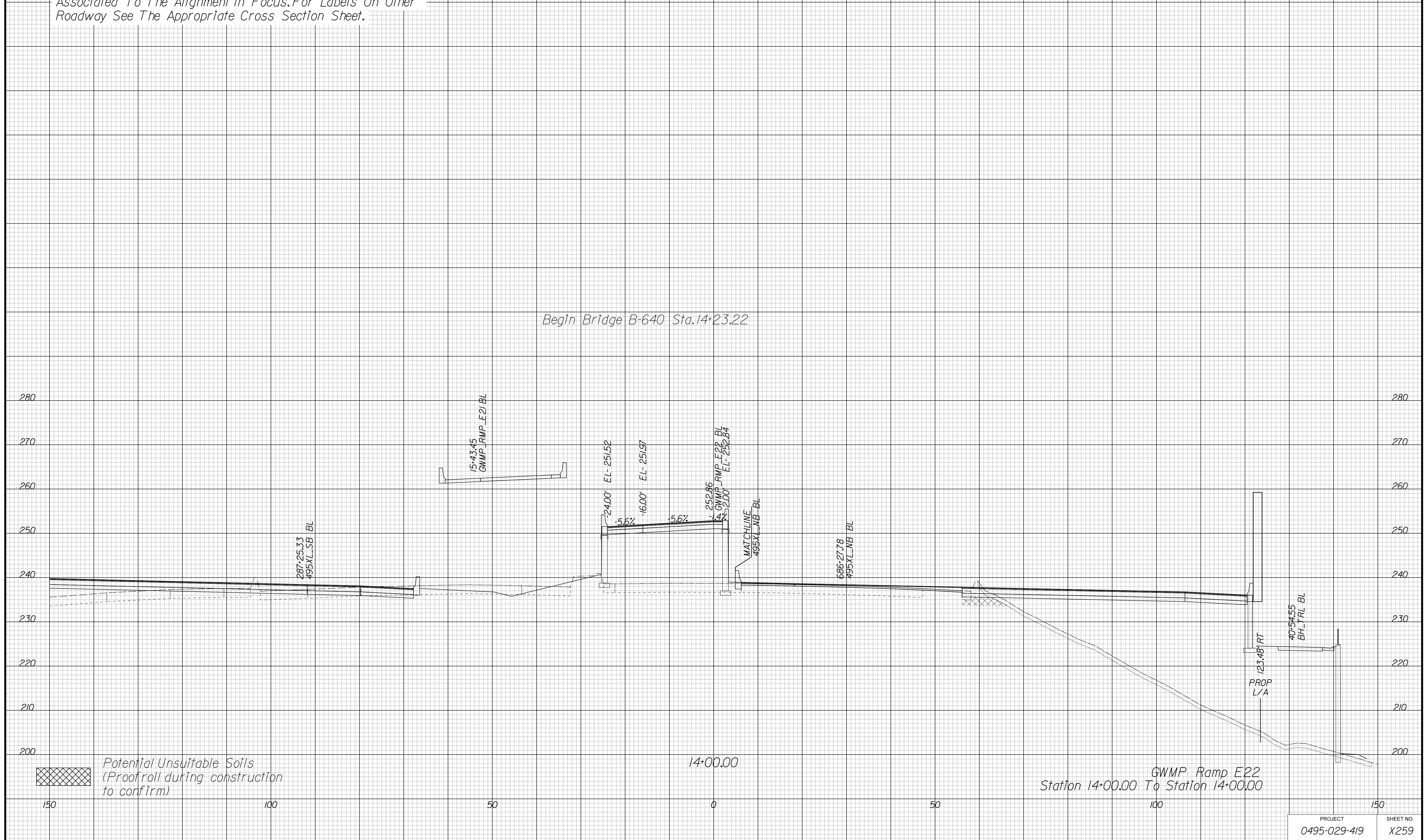
CROSS SECTIONS

SCALE 1 IN. = 10 FT

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

REVISED	STATE	ROUTE	STATE	PROJECT	SHEET NO.
	VA.	495		0495-029-419	X259 AREA 4

Cross Section Labels Are Pertinent Only To The Roadway Associated To The Alignment In Focus. For Labels On Other Roadway See The Appropriate Cross Section Sheet.



APPROVED FOR CONSTRUCTION

PROJECT MANAGER VDOT - Bimal Saha PE (703) 259-2362
SURVEYED BY DATE BDA - Nicholas Kougoulis LS (703) 334-0837, 12/2021
DESIGN BY BDA - Darrell Eischer BE (703) 334-0823, Dexberry - Ron Jakominich PE (703) 849-0651
SUBSURFACE UTILITY BY DATE Accurmark - Michael Taylor LS (703) 635-3060, 12/2021

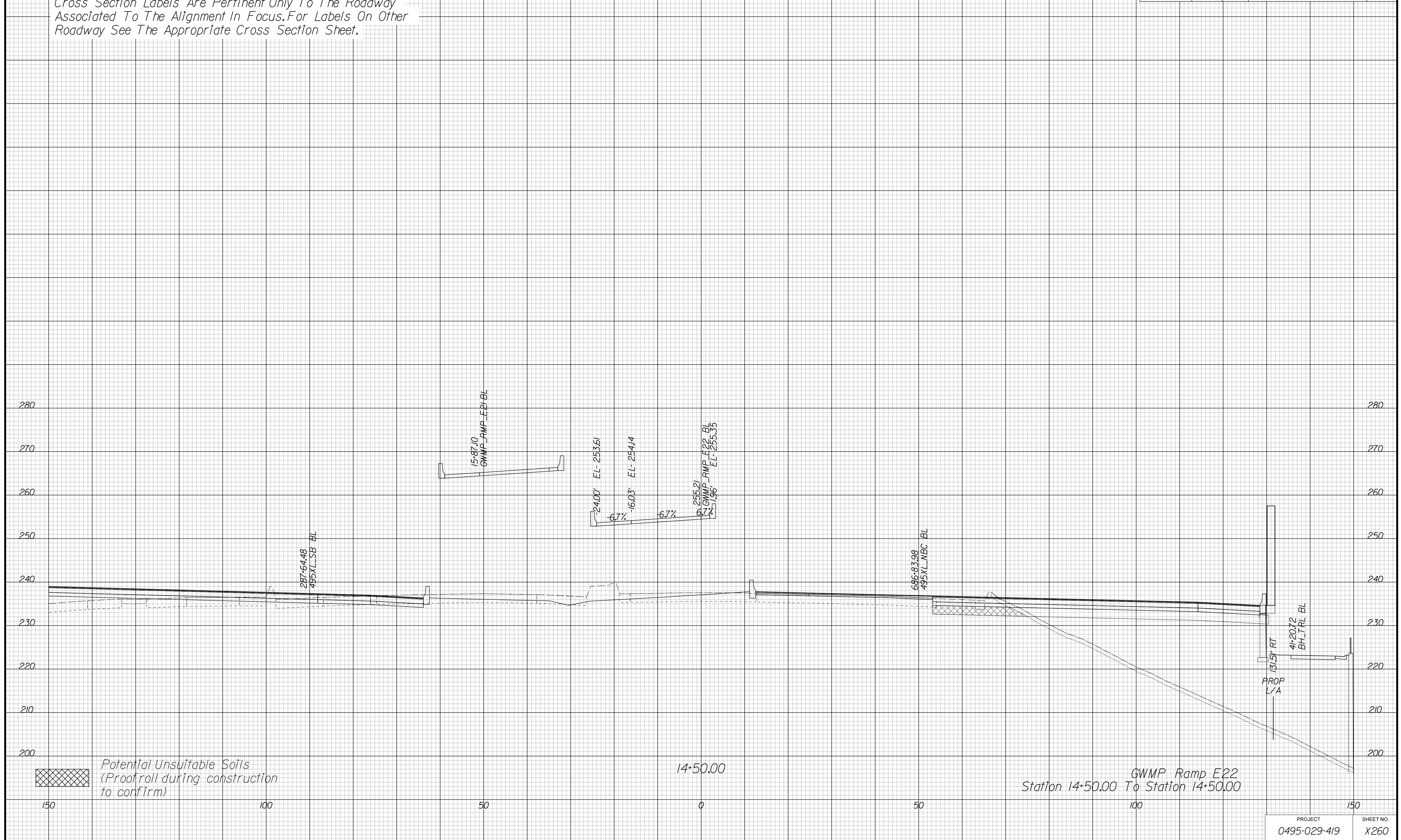
CROSS SECTIONS


SCALE 1 IN. = 10 FT

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

REVISED	STATE	ROUTE	STATE PROJECT	SHEET NO.
	VA.	495	0495-029-419	X260 AREA 4

Cross Section Labels Are Pertinent Only To The Roadway Associated To The Alignment In Focus. For Labels On Other Roadway See The Appropriate Cross Section Sheet.



 Potential Unsuitable Soils (Proofroll during construction to confirm)

APPROVED FOR CONSTRUCTION

PROJECT	SHEET NO.
0495-029-419	X260

PROJECT MANAGER VDOT - Bimal Sab PE (703) 259-2362
SURVEYED BY DATE BDA - Nicholas Kouyoulis LS (703) 334-0837, 12/2021
DESIGN BY BDA - Darrell Eischer BE (703) 334-0823, Dexberry - Ron Jakominich PE (703) 849-0651
SUBSURFACE UTILITY BY DATE Accurmark - Michael Taylor LS (703) 635-3060, 12/2021

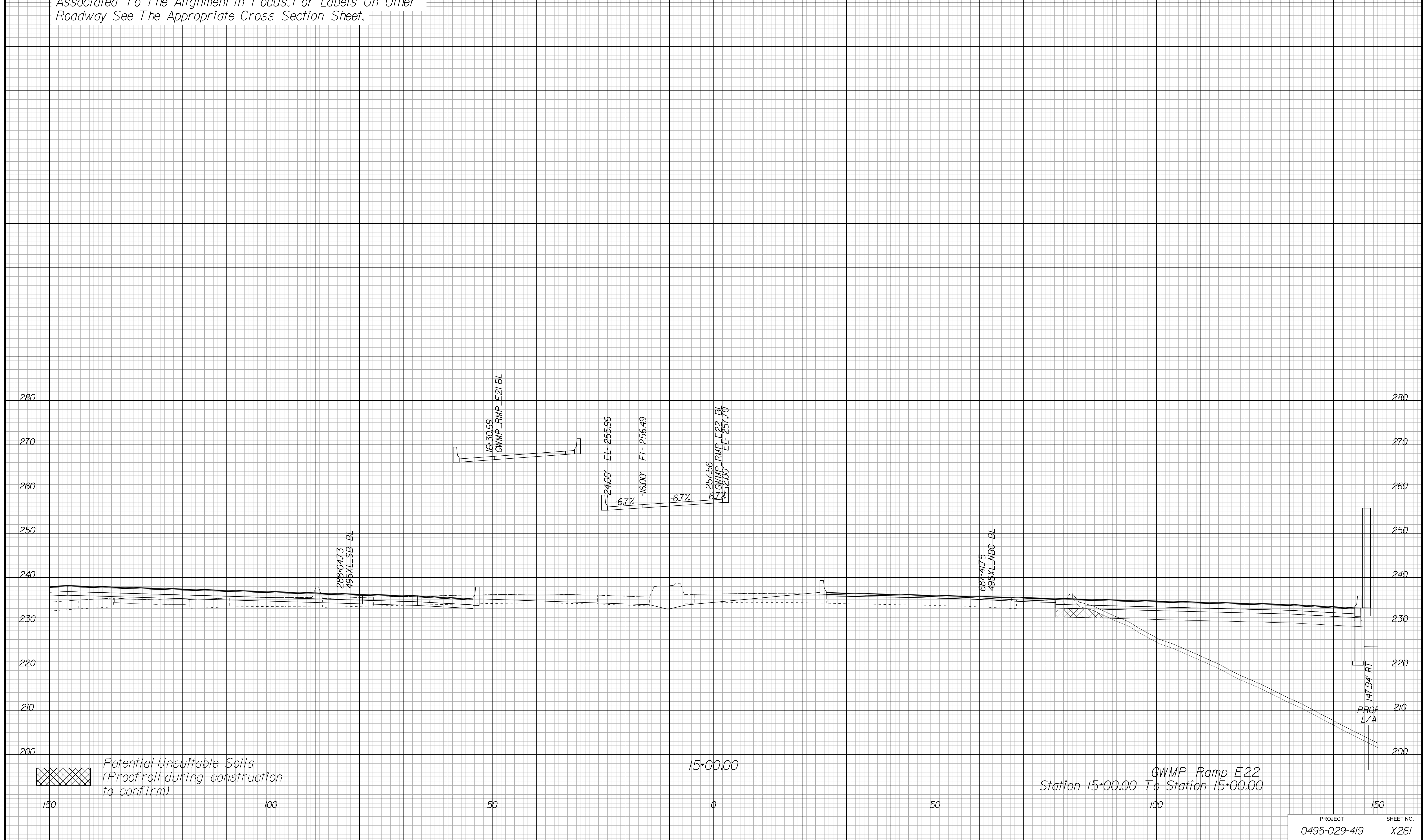
CROSS SECTIONS

SCALE 1 IN. = 10 FT

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

REVISED	STATE	ROUTE	STATE PROJECT	SHEET NO.
	VA.	495	0495-029-419	X261 AREA 4

Cross Section Labels Are Pertinent Only To The Roadway Associated To The Alignment In Focus. For Labels On Other Roadway See The Appropriate Cross Section Sheet.



PROJECT	SHEET NO.
0495-029-419	X261

APPROVED FOR CONSTRUCTION

PROJECT MANAGER VDOT - Bipal Stab PE (703) 259-2362
SURVEYED BY, DATE BDA - Nicholas Kougioulis LS (703) 334-0837, 12/2021
DESIGN BY BDA - Darrell Eischer BE (703) 334-0823, Dewberry - Ron Jakominich PE (703) 849-0651
SUBSURFACE UTILITY BY, DATE Accurmark - Michael Taylor LS (703) 635-3060, 12/2021

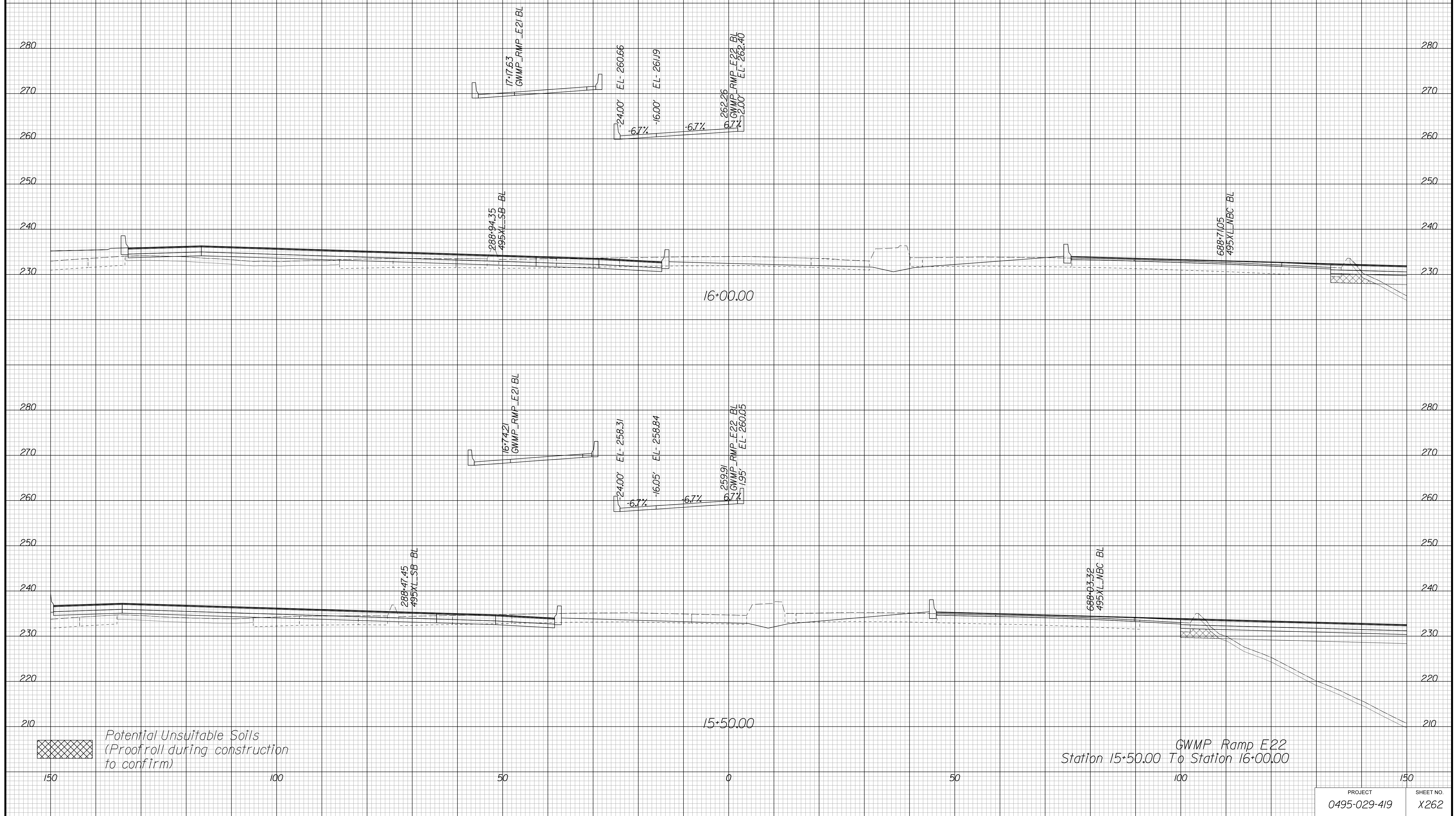
CROSS SECTIONS

SCALE 1 IN. = 10 FT

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

REVISED	STATE	ROUTE	STATE PROJECT	SHEET NO.
	VA.	495	0495-029-419	X262 AREA 4

Cross Section Labels Are Pertinent Only To The Roadway Associated To The Alignment In Focus. For Labels On Other Roadway See The Appropriate Cross Section Sheet.



GWMP Ramp E22
Station 15+50.00 To Station 16+00.00

APPROVED FOR CONSTRUCTION

PROJECT MANAGER VDOT - Bimbal Stab PE (703) 259-2362
SURVEYED BY DATE BDA - Nicholas Kougoulis LS (703) 334-0837, 12/2021
DESIGN BY BDA - Darrell Eischer BE (703) 334-0823, Dawbercy - Ron Jakominich PE (703) 849-0651
SUBSURFACE UTILITY BY DATE Accurmark - Michael Taylor LS (703) 635-3060, 12/2021

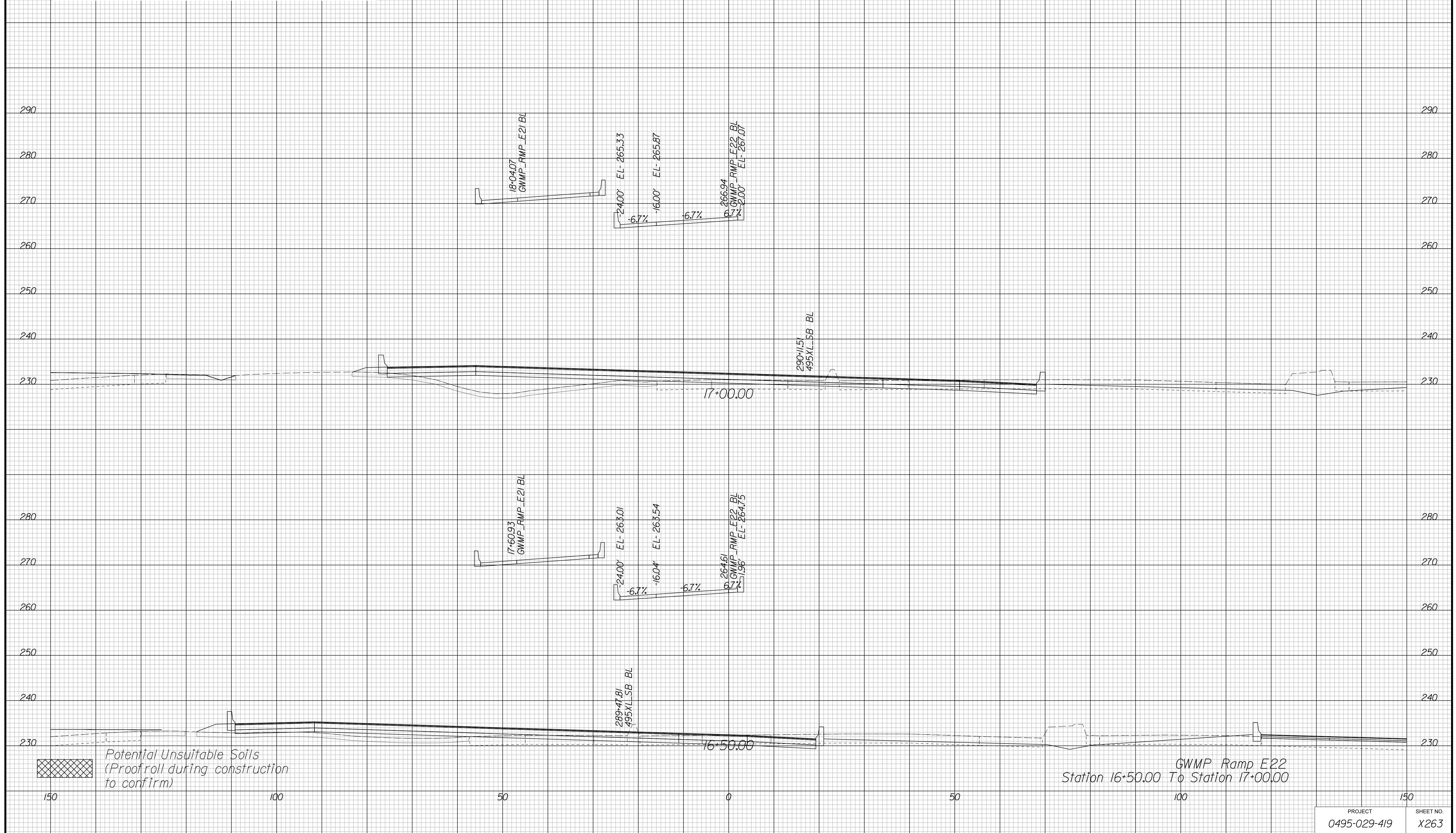
CROSS SECTIONS

SCALE 1 IN. = 10 FT

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

REVISED	STATE	ROUTE	STATE PROJECT	SHEET NO.
	VA.	495	0495-029-419	X263 AREA 4

Cross Section Labels Are Pertinent Only To The Roadway Associated To The Alignment In Focus. For Labels On Other Roadway See The Appropriate Cross Section Sheet.



APPROVED FOR CONSTRUCTION

PROJECT	SHEET NO.
0495-029-419	X263

PROJECT MANAGER VDOT - Bipal Stab PE (703) 259-2362
SURVEYED BY, DATE BDA - Nicholas Kougoulis LS (703) 334-0837, 12/2021
DESIGN BY BDA - Darrell Eischer BE (703) 334-0823, Dexberry - Ron Jakominich PE (703) 849-0651
SUBSURFACE UTILITY BY, DATE Accurmark - Michael Taylor LS (703) 635-3060, 12/2021

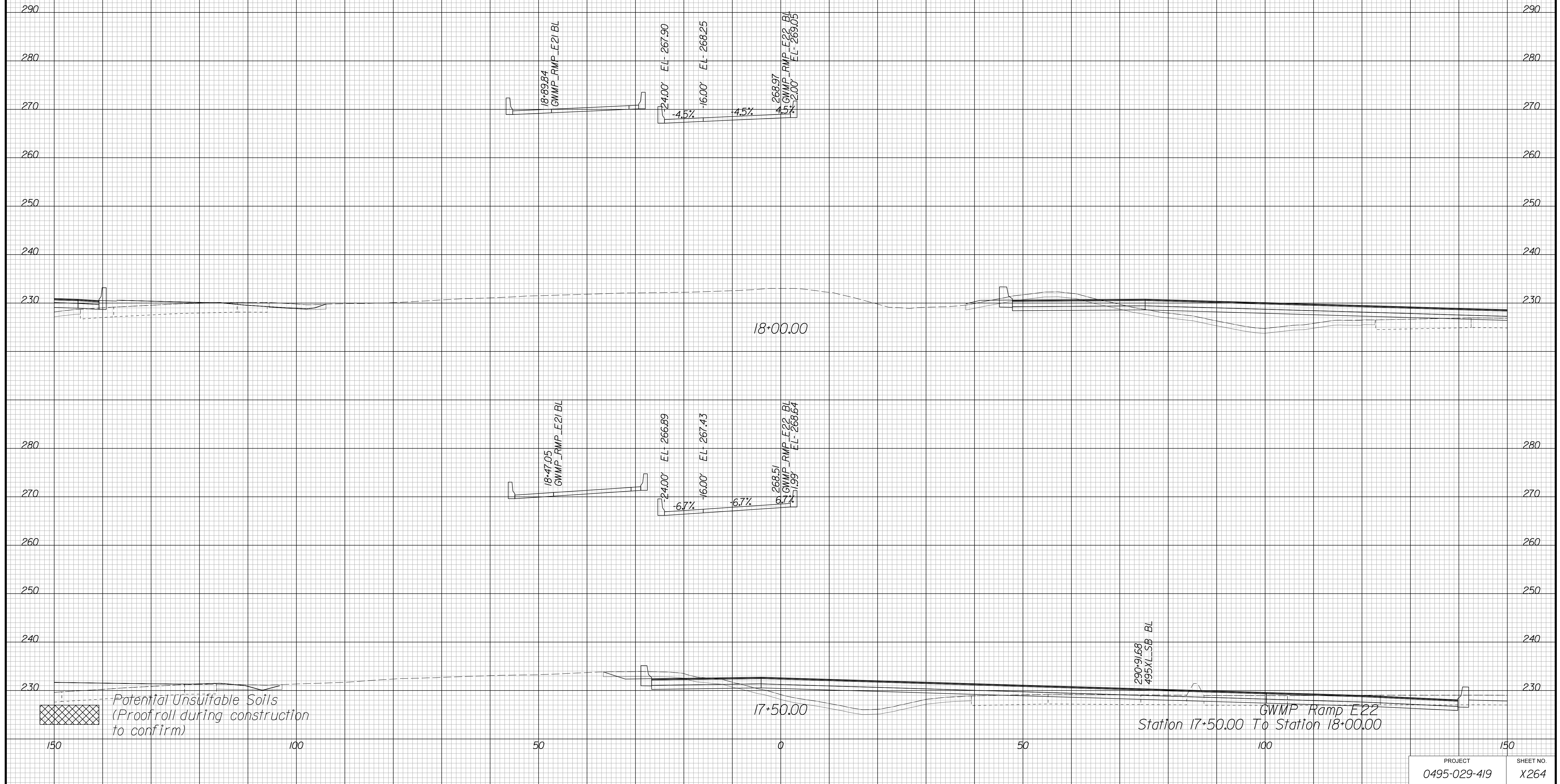
CROSS SECTIONS

SCALE 1 IN. = 10 FT

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

REVISED	STATE	ROUTE	STATE PROJECT	SHEET NO.
	VA.	495	0495-029-419	X264 AREA 4

Cross Section Labels Are Pertinent Only To The Roadway Associated To The Alignment In Focus. For Labels On Other Roadway See The Appropriate Cross Section Sheet.



APPROVED FOR CONSTRUCTION

PROJECT MANAGER VDOT - Bimbal Stab PE (703) 259-2362
SURVEYED BY DATE BDA - Nicholas Kougoulis LS (703) 334-0837, 12/2021
DESIGN BY BDA - Darrell Eischer BE (703) 334-0823, Dexberry - Ron Jakominich PE (703) 849-0651
SUBSURFACE UTILITY BY DATE Accurmark - Michael Taylor LS (703) 635-3060, 12/2021

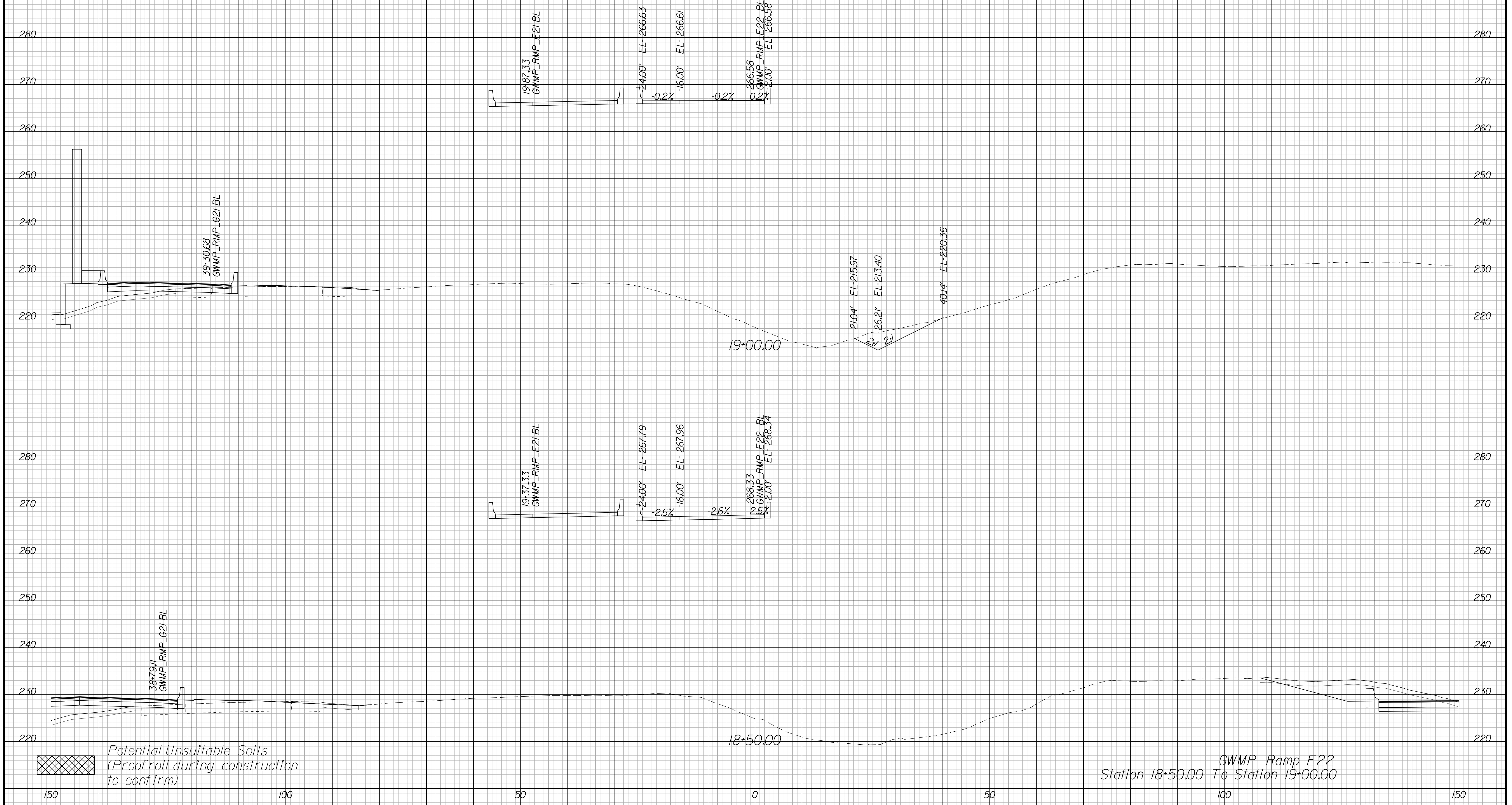
CROSS SECTIONS

SCALE 1 IN. = 10 FT

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

REVISED	STATE	ROUTE	STATE	PROJECT	SHEET NO.
	VA.	495		0495-029-419	X265 AREA 4

*Cross Section Labels Are Pertinent Only To The Roadway
Associated To The Alignment In Focus. For Labels On Other
Roadway See The Appropriate Cross Section Sheet.*



PROJECT	SHEET NO.
0495-029-419	X265

APPROVED FOR CONSTRUCTION

PROJECT MANAGER VDOT - Bimbal Stab PE (703) 259-2362
SURVEYED BY DATE BDA - Nicholas Kouyoulis LS (703) 334-0837, 12/2021
DESIGN BY BDA - Darrell Eischer BE (703) 334-0823, Dawbergy - Ron Jakominich PE (703) 849-0651
SUBSURFACE UTILITY BY DATE Accurmark - Michael Taylor LS (703) 635-3060, 12/2021

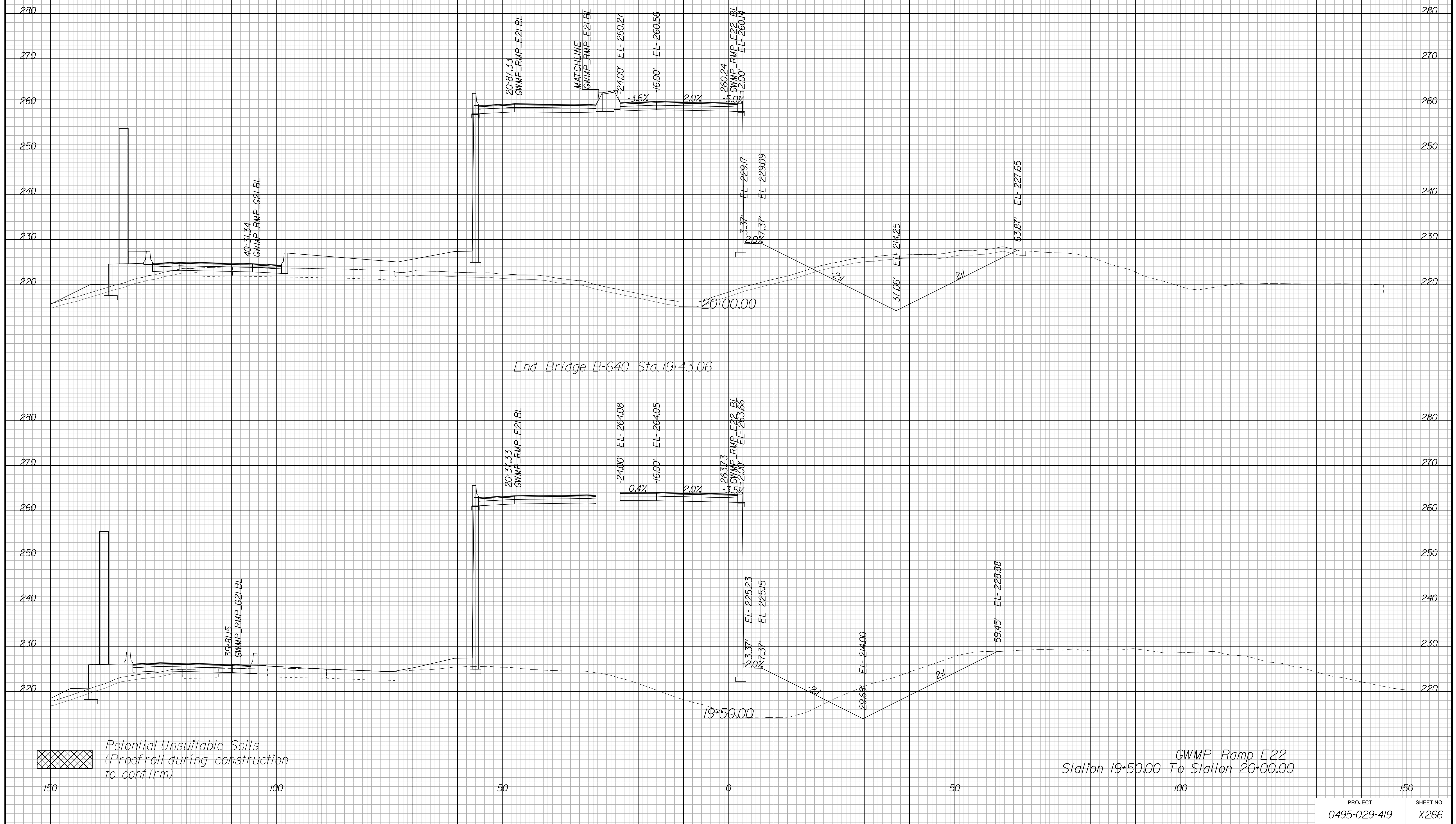
CROSS SECTIONS

SCALE 1 IN. = 10 FT

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

REVISED	STATE	ROUTE	STATE PROJECT	SHEET NO.
	VA.	495	0495-029-419	X266 AREA 4

Cross Section Labels Are Pertinent Only To The Roadway Associated To The Alignment In Focus. For Labels On Other Roadway See The Appropriate Cross Section Sheet.



Station 19+50.00 To Station 20+00.00
GWMP Ramp E22

Potential Unsuitable Soils
(Proofroll during construction to confirm)

APPROVED FOR CONSTRUCTION

PROJECT MANAGER VDOT - Bipal Stab PE (703) 259-2362
SURVEYED BY DATE BDA - Nicholas Kougoulis LS (703) 334-0837, 12/2021
DESIGN BY BDA - Darell Eischer BE (703) 334-0823, Dewberry - Ron Jakominich PE (703) 849-0651
SUBSURFACE UTILITY BY DATE Accurmark - Michael Taylor LS (703) 635-3060, 12/2021

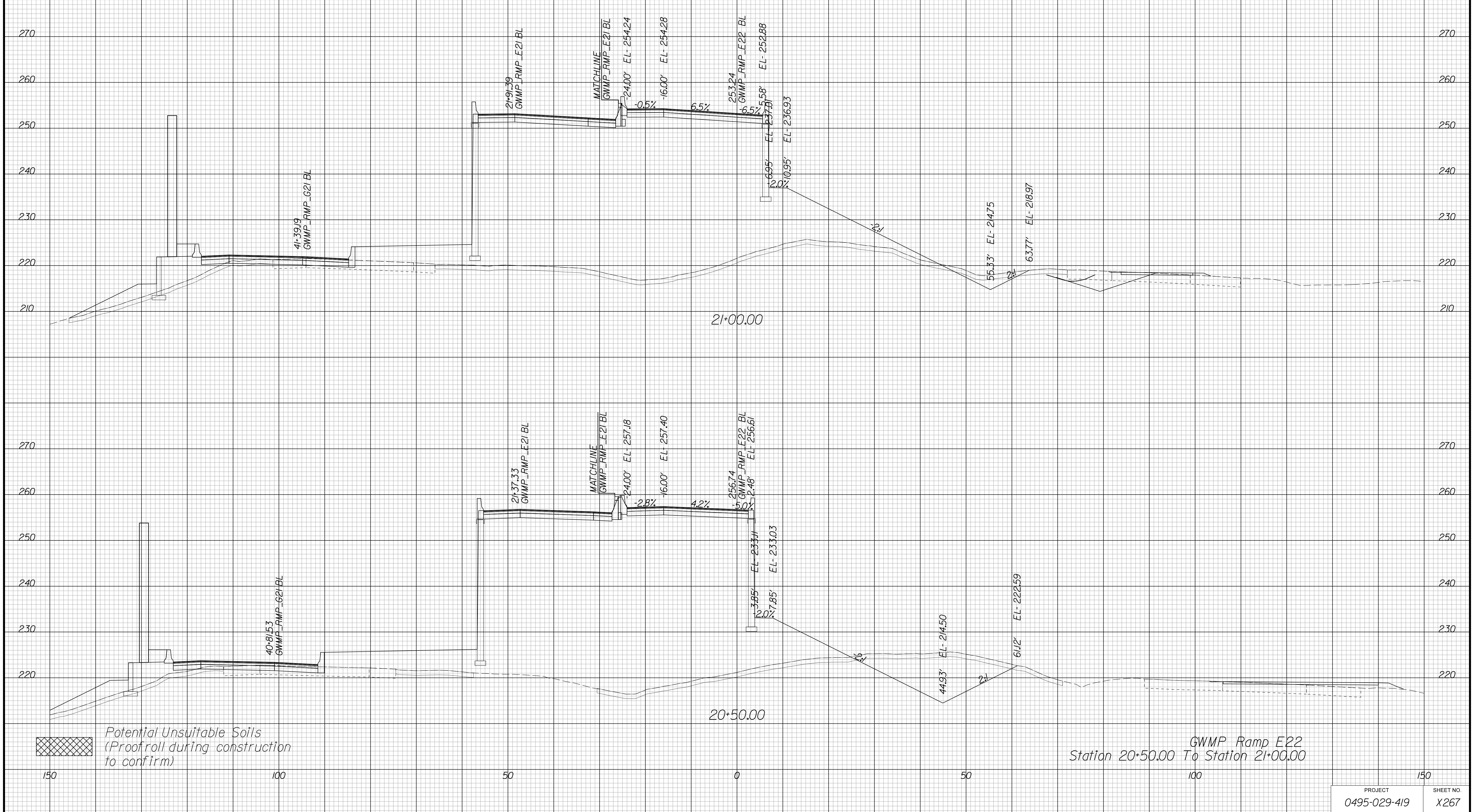
CROSS SECTIONS

SCALE 1 IN. = 10 FT

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

REVISED	STATE	ROUTE	STATE PROJECT	SHEET NO.
	VA.	495	0495-029-419	X267 AREA 4

Cross Section Labels Are Pertinent Only To The Roadway Associated To The Alignment In Focus. For Labels On Other Roadway See The Appropriate Cross Section Sheet.



APPROVED FOR CONSTRUCTION

PROJECT MANAGER VDOT - Bipal Stab PE (703) 259-2362
SURVEYED BY DATE BDA - Nicholas Kougoulis LS (703) 334-0837, 12/2021
DESIGN BY BDA - Darrell Eischer BE (703) 334-0823, Dexberry - Ron Jakominich PE (703) 849-0651
SUBSURFACE UTILITY BY DATE Accurmark - Michael Taylor LS (703) 635-3060, 12/2021

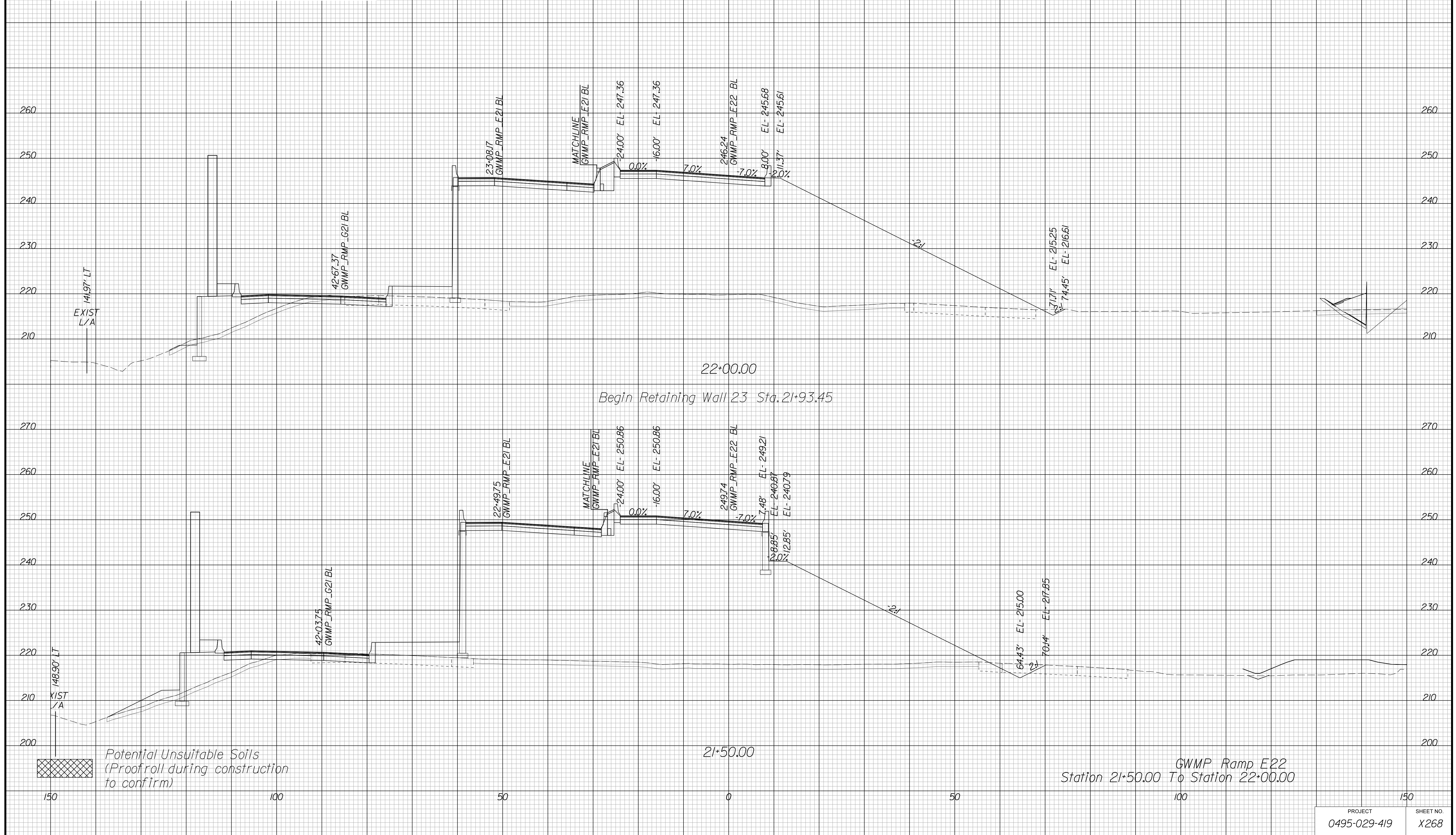
CROSS SECTIONS

SCALE 1 IN. = 10 FT

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

REVISED	STATE	ROUTE	STATE PROJECT	SHEET NO.
	VA.	495	0495-029-419	X268 AREA 4

Cross Section Labels Are Pertinent Only To The Roadway Associated To The Alignment In Focus. For Labels On Other Roadway See The Appropriate Cross Section Sheet.



APPROVED FOR CONSTRUCTION

PROJECT	SHEET NO.
0495-029-419	X268

PROJECT MANAGER VDOT - Bimbal Stab PE (703) 259-2362
SURVEYED BY DATE BDA - Nicholas Kougoulis LS (703) 334-0837, 12/2021
DESIGN BY BDA - Darrell Eischer BE (703) 334-0823, Dexberry - Ron Jakominich PE (703) 849-0651
SUBSURFACE UTILITY BY DATE Accurmark - Michael Taylor LS (703) 635-3060, 12/2021

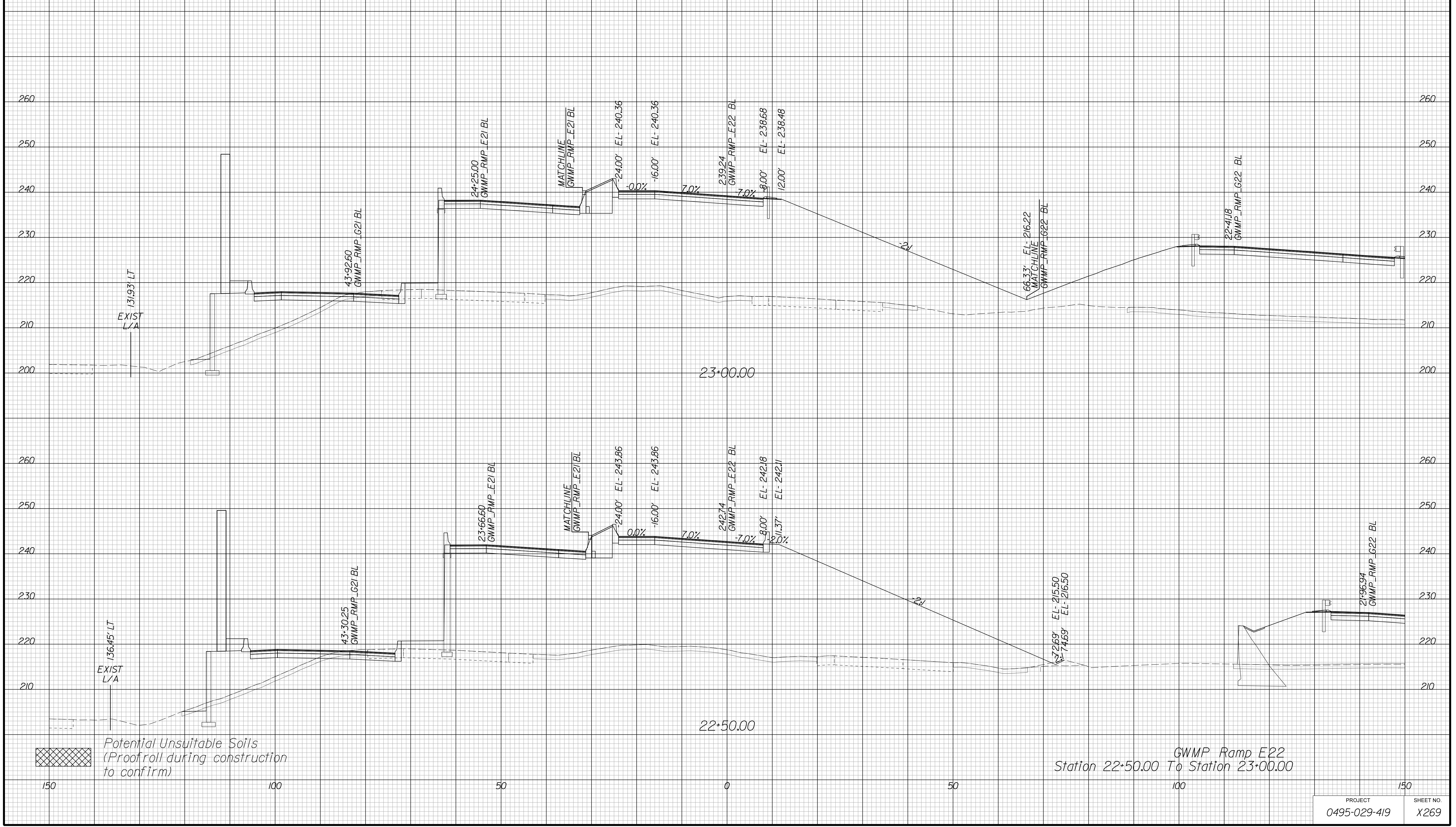
CROSS SECTIONS

SCALE 1 IN. = 10 FT

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

REVISED	STATE	ROUTE	STATE	PROJECT	SHEET NO.
	VA.	495		0495-029-419	X269 AREA 4

Cross Section Labels Are Pertinent Only To The Roadway Associated To The Alignment In Focus. For Labels On Other Roadway See The Appropriate Cross Section Sheet.



APPROVED FOR CONSTRUCTION

PROJECT MANAGER VDOT - Bimal Saha PE (703) 259-2362
SURVEYED BY DATE BDA - Nicholas Kougioulis LS (703) 334-0837, 12/2021
DESIGN BY BDA - Darrell Eischer BE (703) 334-0823, Dexberry - Ron Jakominich PE (703) 849-0651
SUBSURFACE UTILITY BY DATE Accurmark - Michael Taylor LS (703) 635-3060, 12/2021

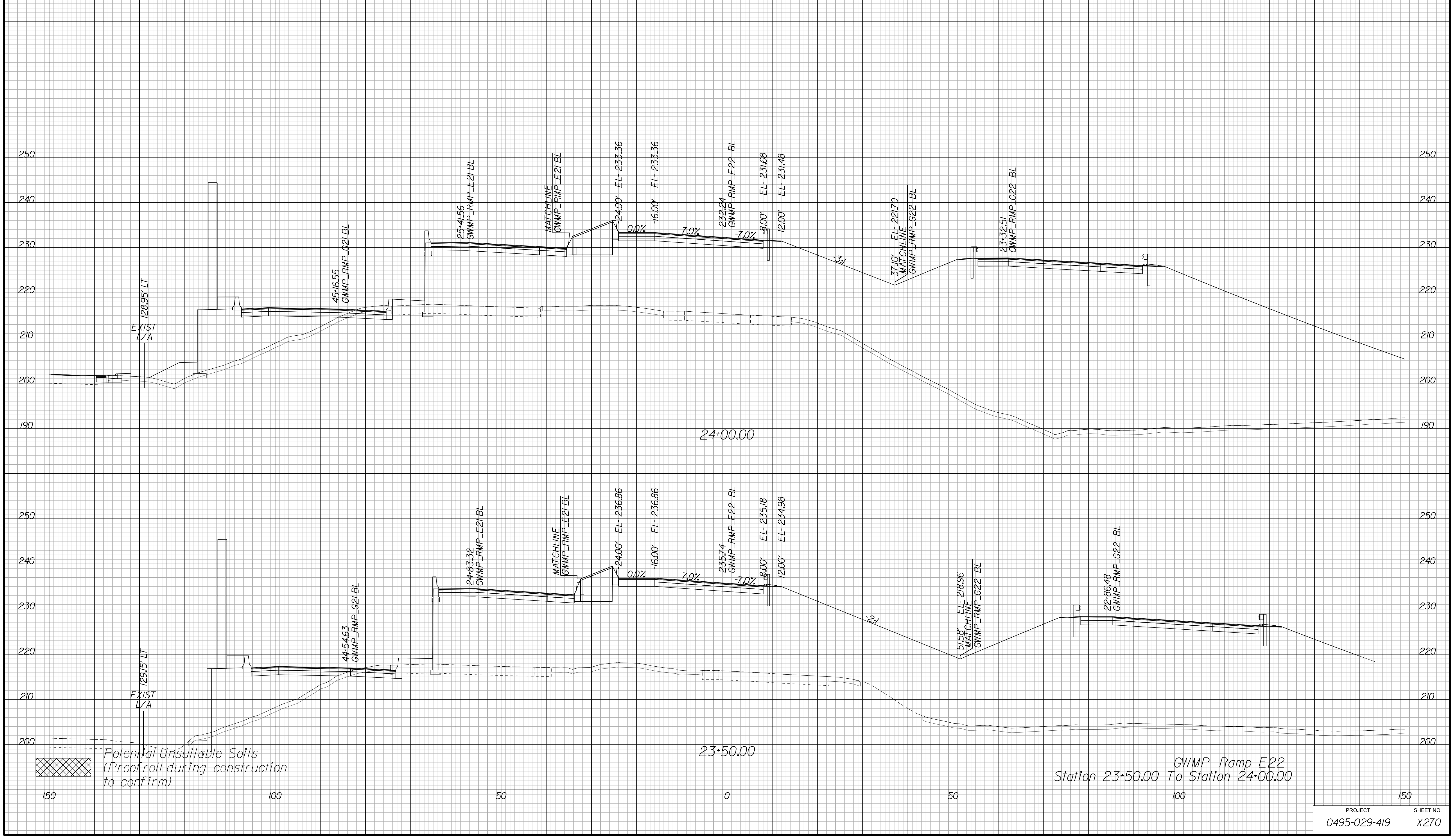
CROSS SECTIONS

SCALE 1 IN. = 10 FT

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

REVISED	STATE	ROUTE	STATE PROJECT	SHEET NO.
	VA.	495	0495-029-419	X270 AREA 4

Cross Section Labels Are Pertinent Only To The Roadway Associated To The Alignment In Focus. For Labels On Other Roadway See The Appropriate Cross Section Sheet.



APPROVED FOR CONSTRUCTION

PROJECT MANAGER VDOT - Bimbal Stab PE (703) 259-2362
SURVEYED BY DATE BDA - Nicholas Kougoulis LS (703) 334-0837, 12/2021
DESIGN BY BDA - Darrell Eischer BE (703) 334-0823, Dawbergy - Ron Jakominich PE (703) 849-0651
SUBSURFACE UTILITY BY DATE Accurmark - Michael Taylor LS (703) 635-3060, 12/2021

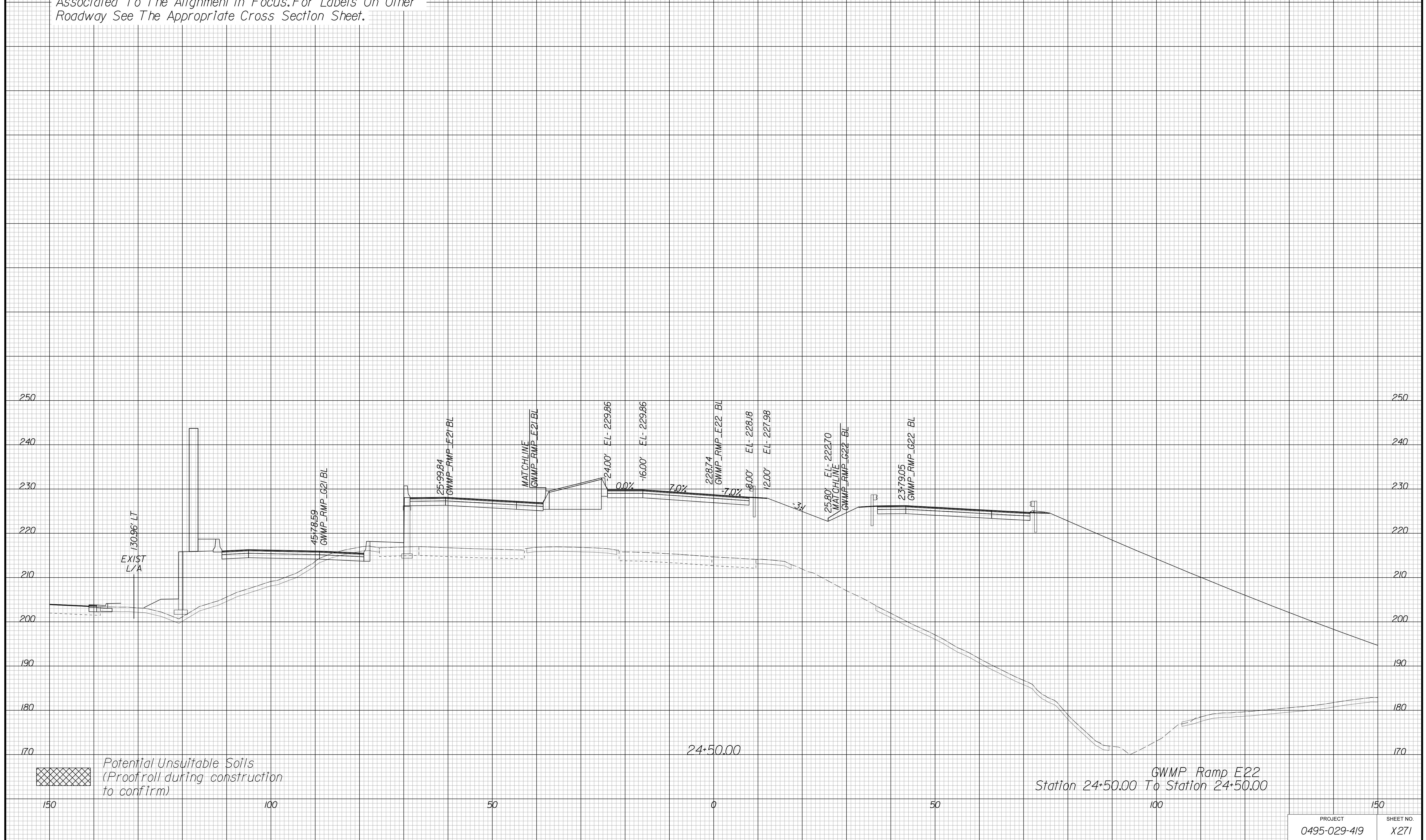
CROSS SECTIONS

SCALE 1 IN. = 10 FT

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

REVISED	STATE	ROUTE	STATE PROJECT	SHEET NO.
	VA.	495	0495-029-419	X271 AREA 4

Cross Section Labels Are Pertinent Only To The Roadway Associated To The Alignment In Focus. For Labels On Other Roadway See The Appropriate Cross Section Sheet.



APPROVED FOR CONSTRUCTION

PROJECT MANAGER VDOT - Bimbal Stab PE (703) 259-2362
SURVEYED BY DATE BDA - Nicholas Kougoulis LS (703) 334-0837, 12/2021
DESIGN BY BDA - Darell Eischer BE (703) 334-0823, Dawbercy - Ron Jakominich PE (703) 849-0651
SUBSURFACE UTILITY BY DATE Accurmark - Michael Taylor LS (703) 635-3060, 12/2021

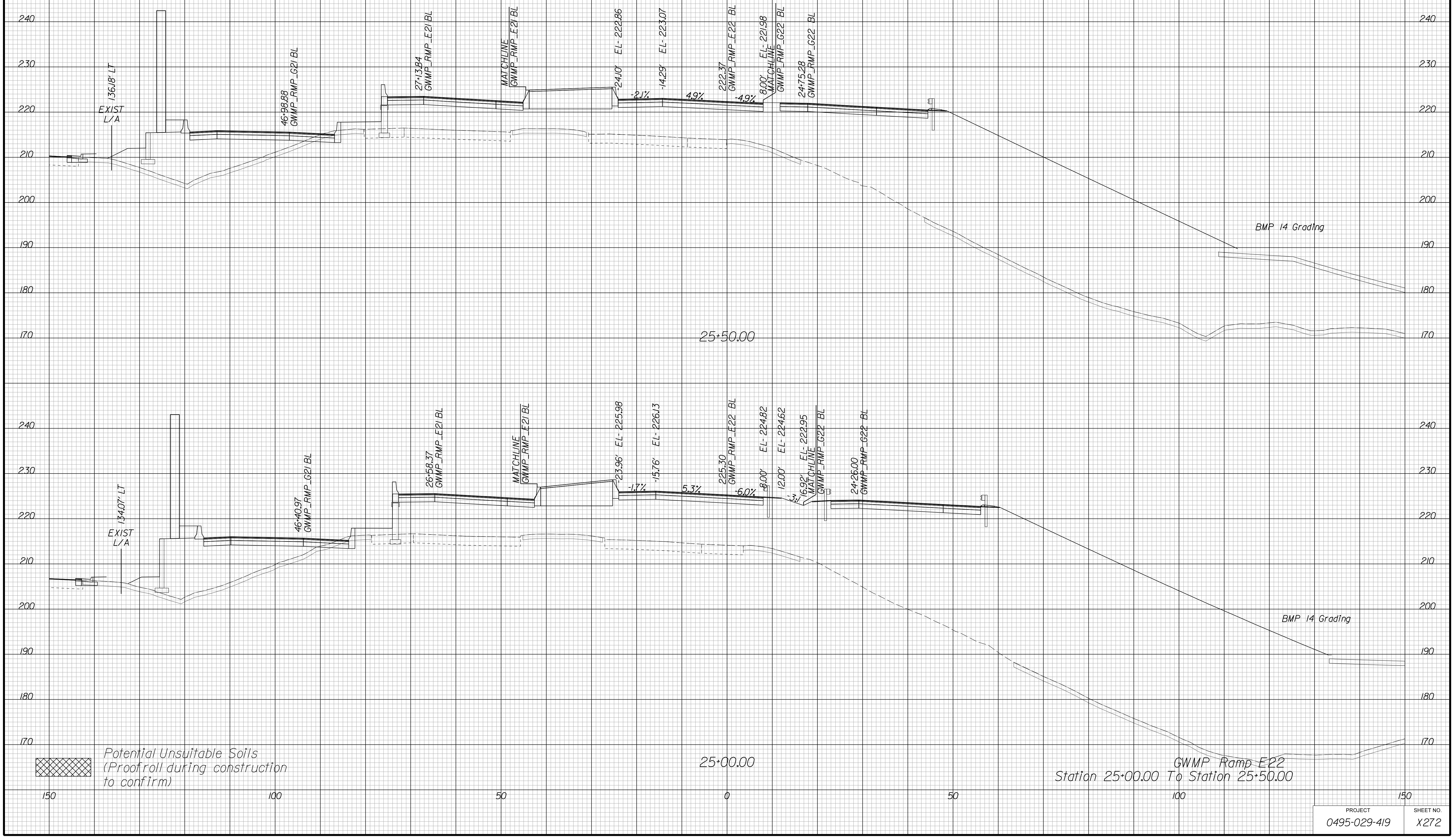
CROSS SECTIONS

SCALE 1 IN. = 10 FT

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

REVISED	STATE	ROUTE	STATE	PROJECT	SHEET NO.
	VA.	495		0495-029-419	X272 AREA 4

Cross Section Labels Are Pertinent Only To The Roadway Associated To The Alignment In Focus. For Labels On Other Roadway See The Appropriate Cross Section Sheet.



APPROVED FOR CONSTRUCTION

PROJECT MANAGER VDOT - Bimal Sab PE.(703) 259-2362
SURVEYED BY DATE BDA - Nicholas Kougioulis LS.(703) 334-0837,12/2021
DESIGN BY BDA - Darrell Eischer BE.(703) 334-0823, Dexberry - Ron Jakominich PE.(703) 849-0651
SUBSURFACE UTILITY BY DATE Accurmark - Michael Taylor LS.(703) 635-3060,12/2021

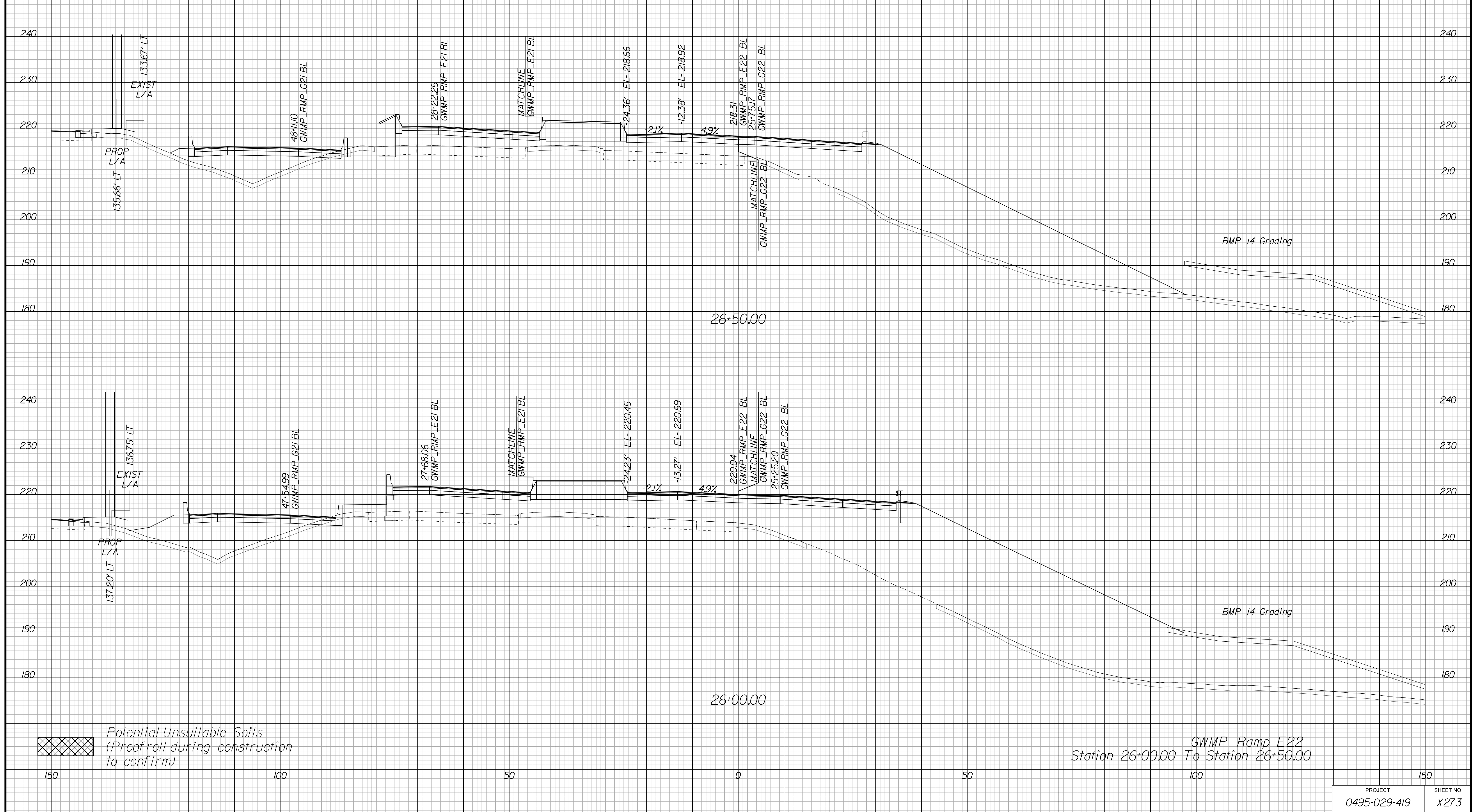
CROSS SECTIONS

SCALE 1 IN. = 10 FT

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

REVISED	STATE	ROUTE	STATE	PROJECT	SHEET NO.
	VA.	495		0495-029-419	X273 AREA 4

Cross Section Labels Are Pertinent Only To The Roadway Associated To The Alignment In Focus. For Labels On Other Roadway See The Appropriate Cross Section Sheet.



APPROVED FOR CONSTRUCTION

PROJECT MANAGER VDOT - Bipal Stab PE (703) 259-2362
SURVEYED BY, DATE BDA - Nicholas Kougioulis LS (703) 334-0837, 12/2021
DESIGN BY BDA - Darrell Eischer BE (703) 334-0823, Dewberry - Ron Jakominich PE (703) 849-0651
SUBSURFACE UTILITY BY, DATE Accurmark - Michael Taylor LS (703) 635-3060, 12/2021

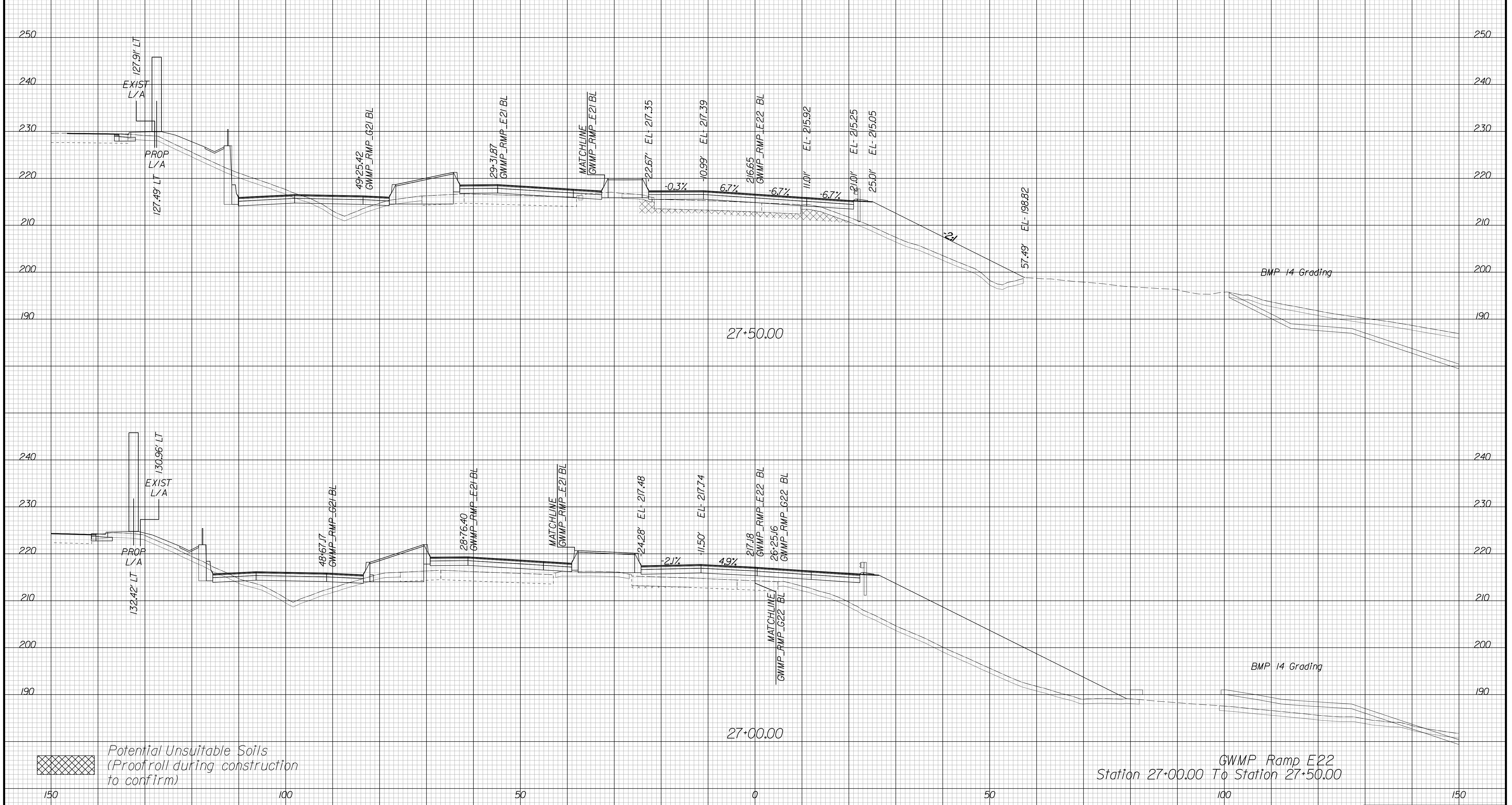
CROSS SECTIONS

SCALE 1 IN. = 10 FT

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

REVISED	STATE	ROUTE	STATE	PROJECT	SHEET NO.
	VA.	495		0495-029-419	X274 AREA 4

Cross Section Labels Are Pertinent Only To The Roadway Associated To The Alignment In Focus. For Labels On Other Roadway See The Appropriate Cross Section Sheet.



Potential Unsuitable Soils (Proofroll during construction to confirm)

GWMP Ramp E22
Station 27+00.00 To Station 27+50.00

PROJECT	SHEET NO.
0495-029-419	X274

APPROVED FOR CONSTRUCTION

PROJECT MANAGER VDOT - Bimbal Stab PE (703) 259-2362
SURVEYED BY DATE BDA - Nicholas Kougioulis LS (703) 334-0837, 12/2021
DESIGN BY BDA - Darrell Eischer BE (703) 334-0823, Dawbercy - Ron Jakominich PE (703) 849-0651
SUBSURFACE UTILITY BY DATE Accurmark - Michael Taylor LS (703) 635-3060, 12/2021

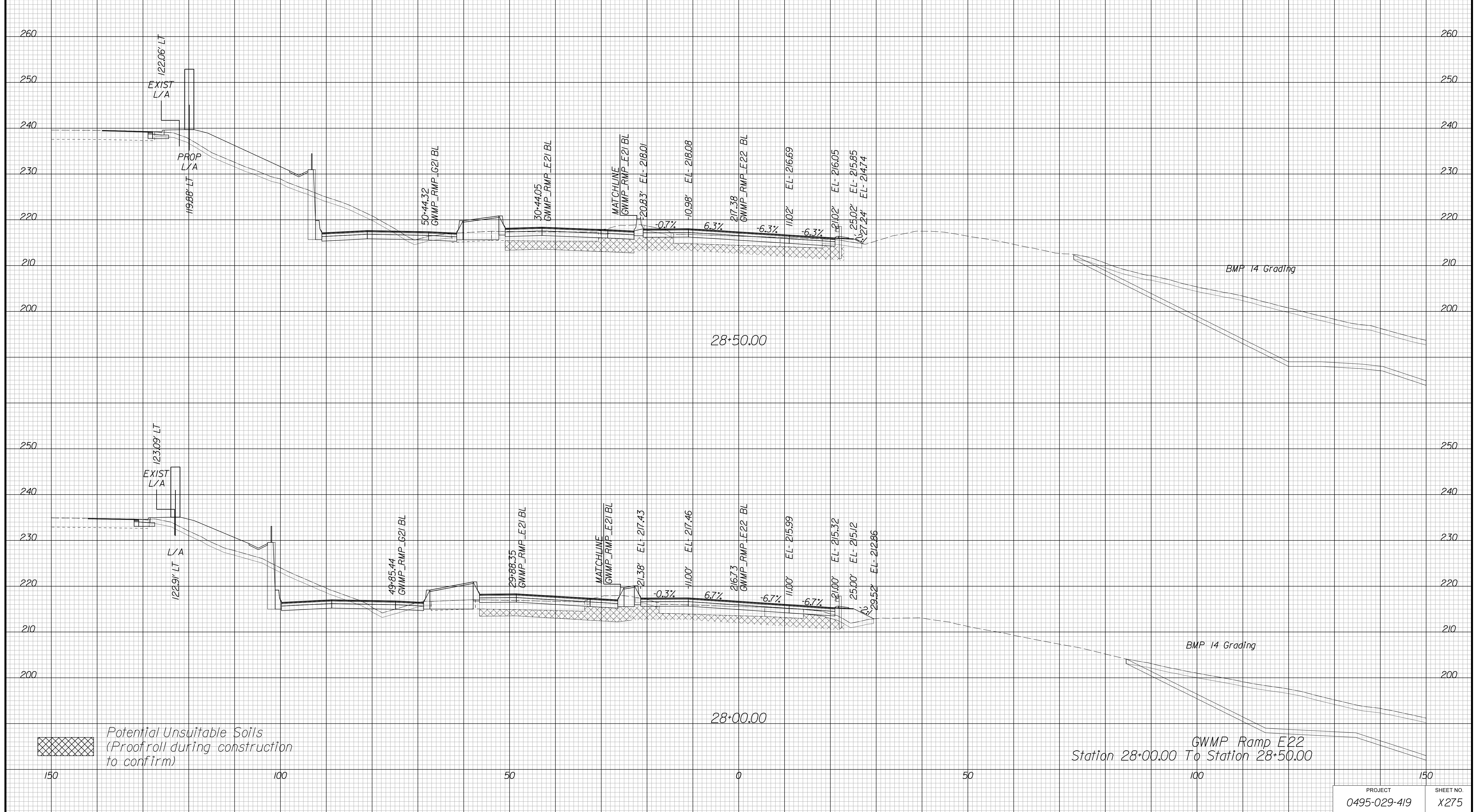
CROSS SECTIONS

SCALE 1 IN. = 10 FT

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

REVISED	STATE	ROUTE	STATE PROJECT	SHEET NO.
	VA.	495	0495-029-419	X275 AREA 4

Cross Section Labels Are Pertinent Only To The Roadway Associated To The Alignment In Focus. For Labels On Other Roadway See The Appropriate Cross Section Sheet.



APPROVED FOR CONSTRUCTION

PROJECT MANAGER VDOT - Bimbal Stab PE (703) 259-2362
SURVEYED BY, DATE BDA - Nicholas Kougoulis LS (703) 334-0837, 12/2021
DESIGN BY BDA - Darrell Eischer BE (703) 334-0823, Dawberly - Ron Jakominich PE (703) 849-0651
SUBSURFACE UTILITY BY, DATE Accurmark - Michael Taylor LS (703) 635-3060, 12/2021

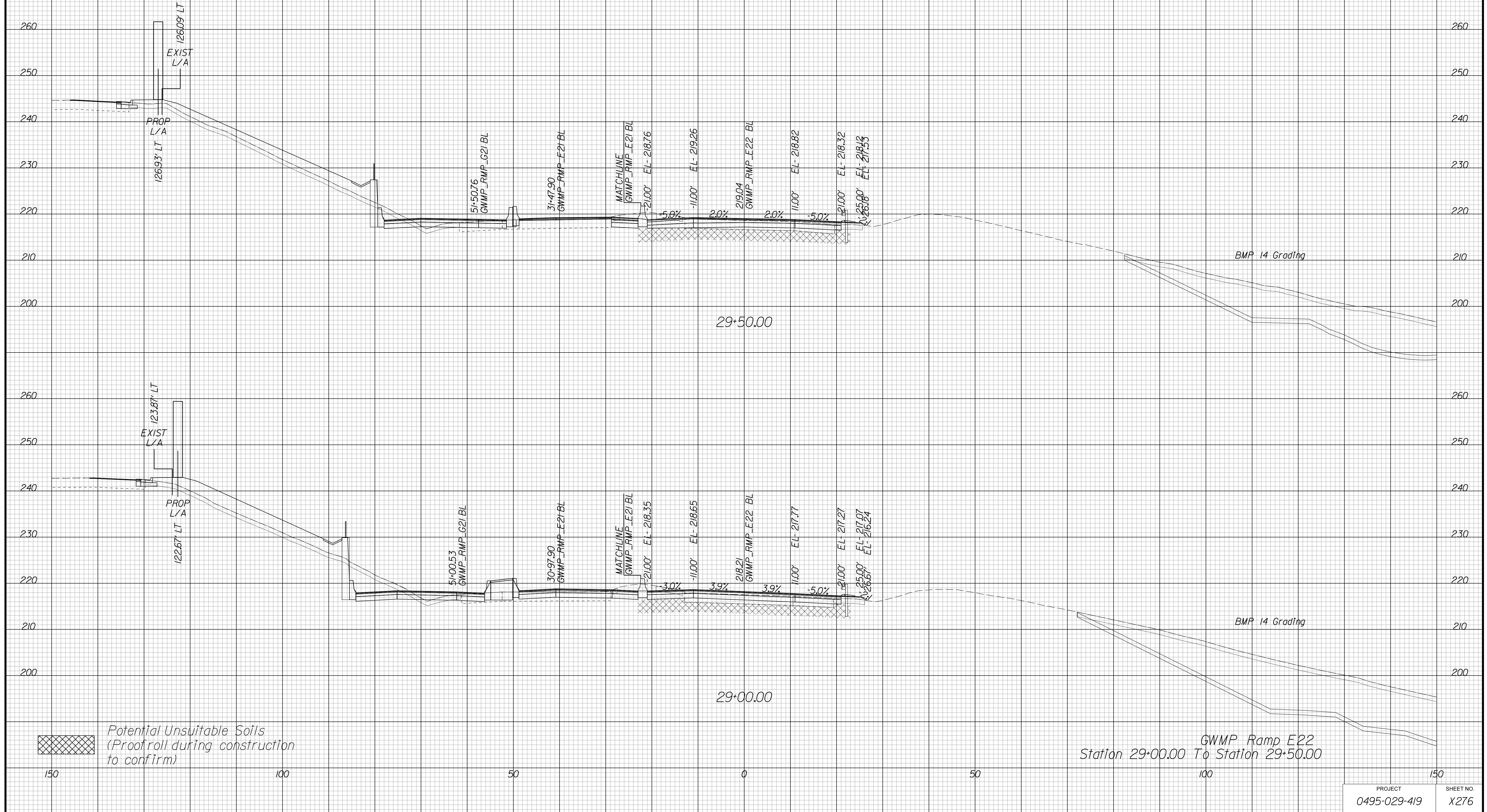
CROSS SECTIONS

SCALE 1 IN. = 10 FT

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

REVISED	STATE	ROUTE	STATE	PROJECT	SHEET NO.
	VA.	495		0495-029-419	X276 AREA 4

Cross Section Labels Are Pertinent Only To The Roadway Associated To The Alignment In Focus. For Labels On Other Roadway See The Appropriate Cross Section Sheet.



APPROVED FOR CONSTRUCTION

PROJECT MANAGER VDOT - Bipal Stab PE (703) 259-2362
SURVEYED BY, DATE BDA - Nicholas Kougoulis LS (703) 334-0837, 12/2021
DESIGN BY BDA - Darrell Elischer BE (703) 334-0823, Dexberry - Ron Jakominich PE (703) 849-0651
SUBSURFACE UTILITY BY, DATE Accurmark - Michael Taylor LS (703) 635-3060, 12/2021

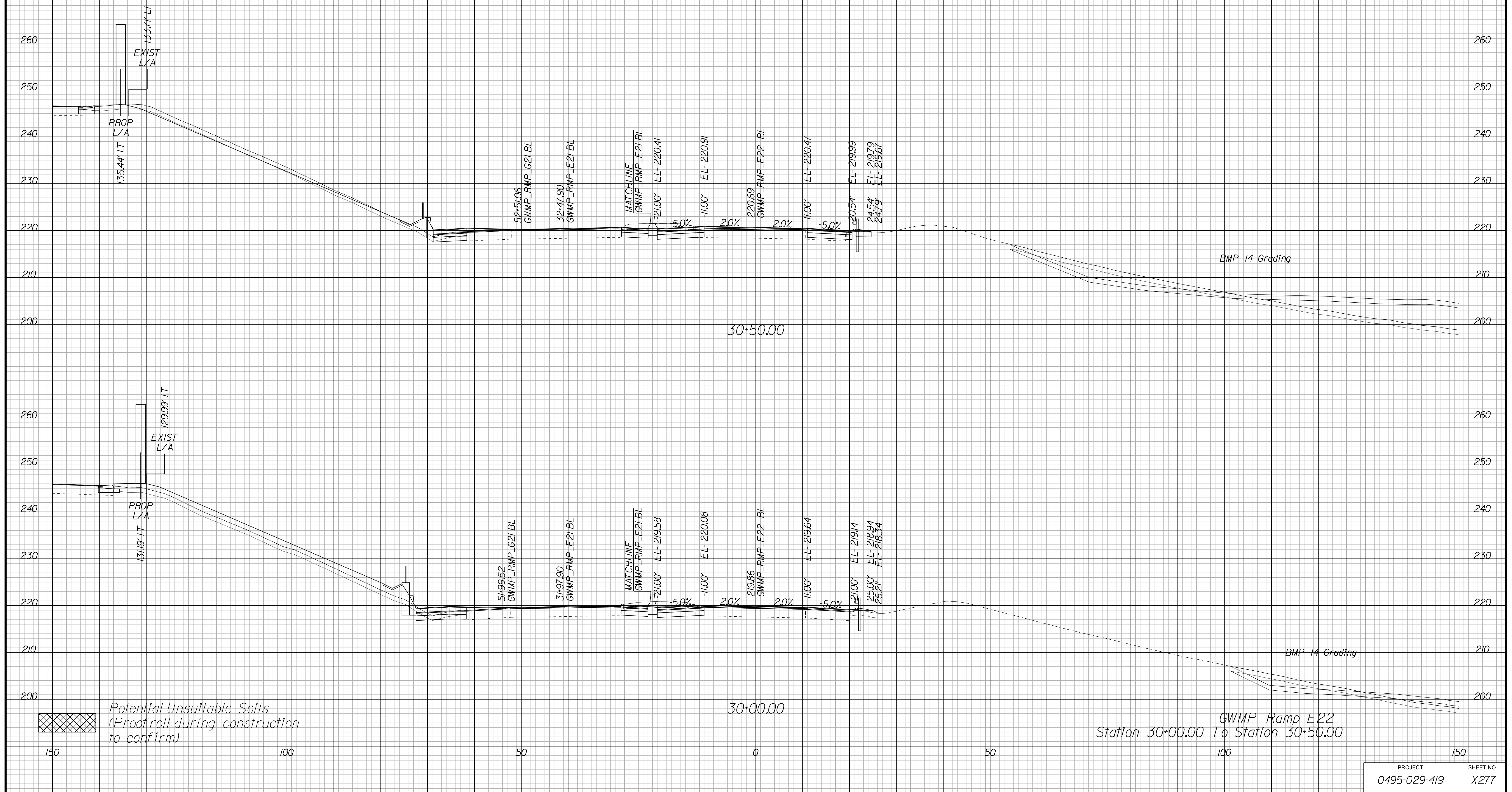
CROSS SECTIONS

SCALE 1 IN. = 10 FT

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

REVISED	STATE	ROUTE	STATE	PROJECT	SHEET NO.
	VA.	495		0495-029-419	X277 AREA 4

Cross Section Labels Are Pertinent Only To The Roadway Associated To The Alignment In Focus. For Labels On Other Roadway See The Appropriate Cross Section Sheet.



PROJECT	SHEET NO.
0495-029-419	X277

APPROVED FOR CONSTRUCTION

PROJECT MANAGER VDOT - Bipin Sab PE (703) 259-2362
SURVEYED BY, DATE BDA - Nicholas Kougoulis LS (703) 334-0837, 12/2021
DESIGN BY BDA - Darrell Elischer BE (703) 334-0823, Dewberry - Ron Jakominich PE (703) 849-0651
SUBSURFACE UTILITY BY, DATE Accurmark - Michael Taylor LS (703) 635-3060, 12/2021

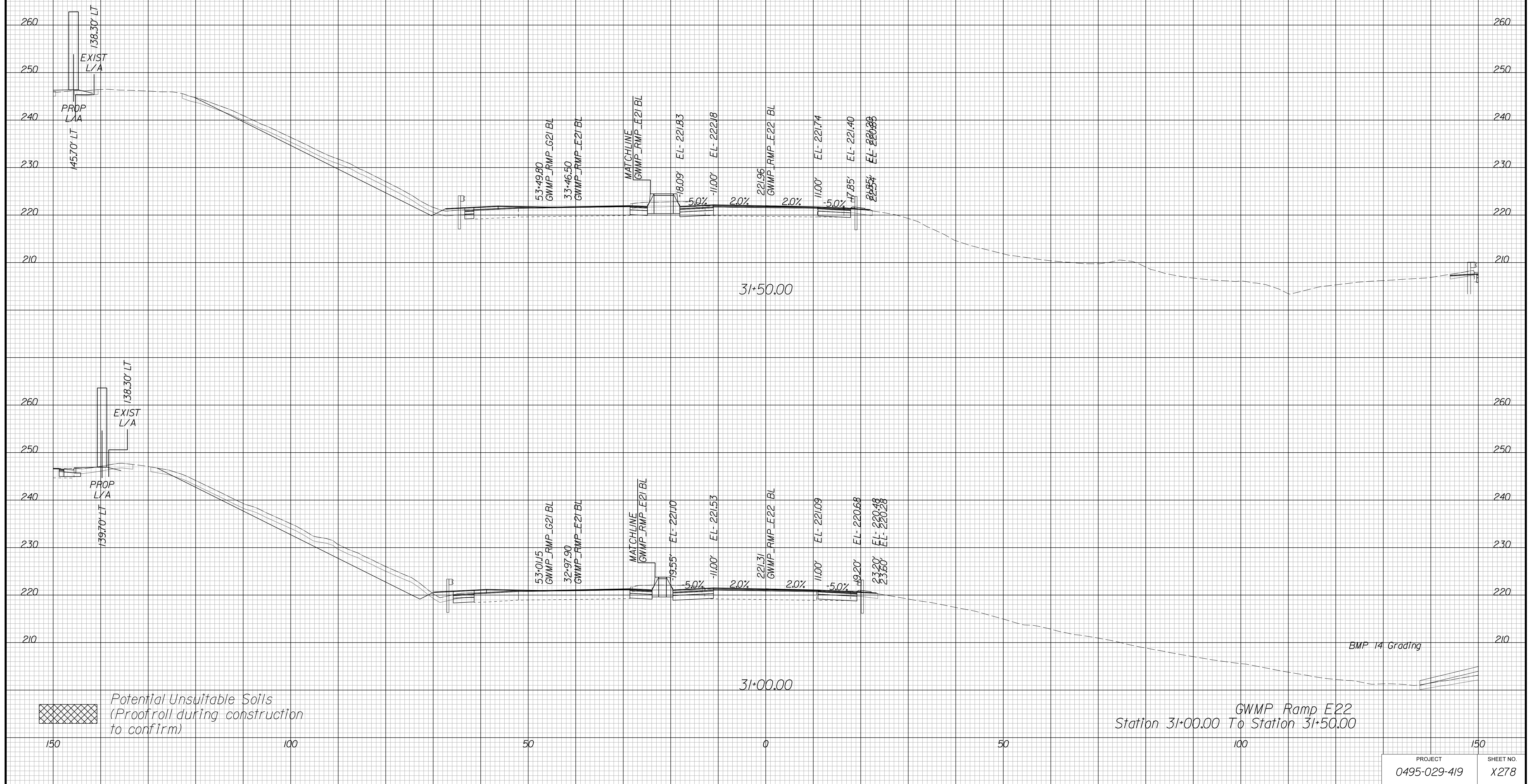
CROSS SECTIONS

SCALE 1 IN. = 10 FT

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

REVISED	STATE	ROUTE	STATE	PROJECT	SHEET NO.
	VA.	495		0495-029-419	X278 AREA 4

Cross Section Labels Are Pertinent Only To The Roadway Associated To The Alignment In Focus. For Labels On Other Roadway See The Appropriate Cross Section Sheet.



APPROVED FOR CONSTRUCTION

PROJECT	SHEET NO.
0495-029-419	X278

PROJECT MANAGER VDOT - Bimbal Stab PE (703) 259-2362
SURVEYED BY DATE BDA - Nicholas Kougoulis LS (703) 334-0837, 12/2021
DESIGN BY BDA - Darell Eischer BE (703) 334-0823, Dawbercy - Ron Jakominich PE (703) 849-0651
SUBSURFACE UTILITY BY DATE Accurmark - Michael Taylor LS (703) 635-3060, 12/2021

CROSS SECTIONS

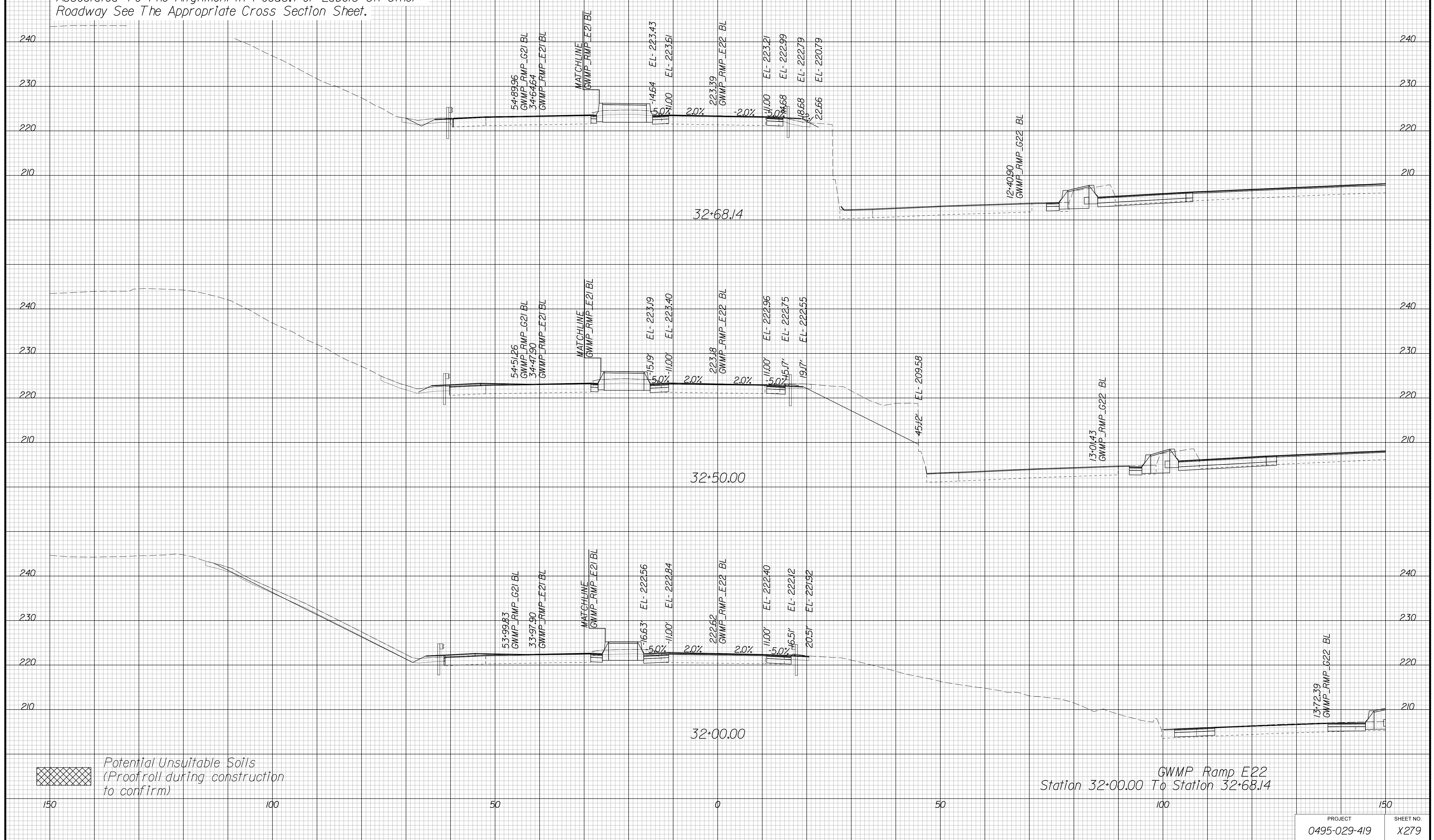
SCALE 1 IN. = 10 FT

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

REVISED	STATE	ROUTE	STATE PROJECT	SHEET NO.
	VA.	495	0495-029-419	X279 AREA 4

Cross Section Labels Are Pertinent Only To The Roadway Associated To The Alignment In Focus. For Labels On Other Roadway See The Appropriate Cross Section Sheet.

Begin Bridge B-643 Sta. 32+80.75



APPROVED FOR CONSTRUCTION

PROJECT	SHEET NO.
0495-029-419	X279

PROJECT MANAGER VDOT - Bipal Stab PE (703) 259-2362
SURVEYED BY DATE BDA - Nicholas Kougoulis LS (703) 334-0837, 12/2021
DESIGN BY BDA - Darrell Eischer BE (703) 334-0823, Dewberry - Ron Jakominich PE (703) 849-0651
SUBSURFACE UTILITY BY DATE Accurmark - Michael Taylor LS (703) 635-3060, 12/2021

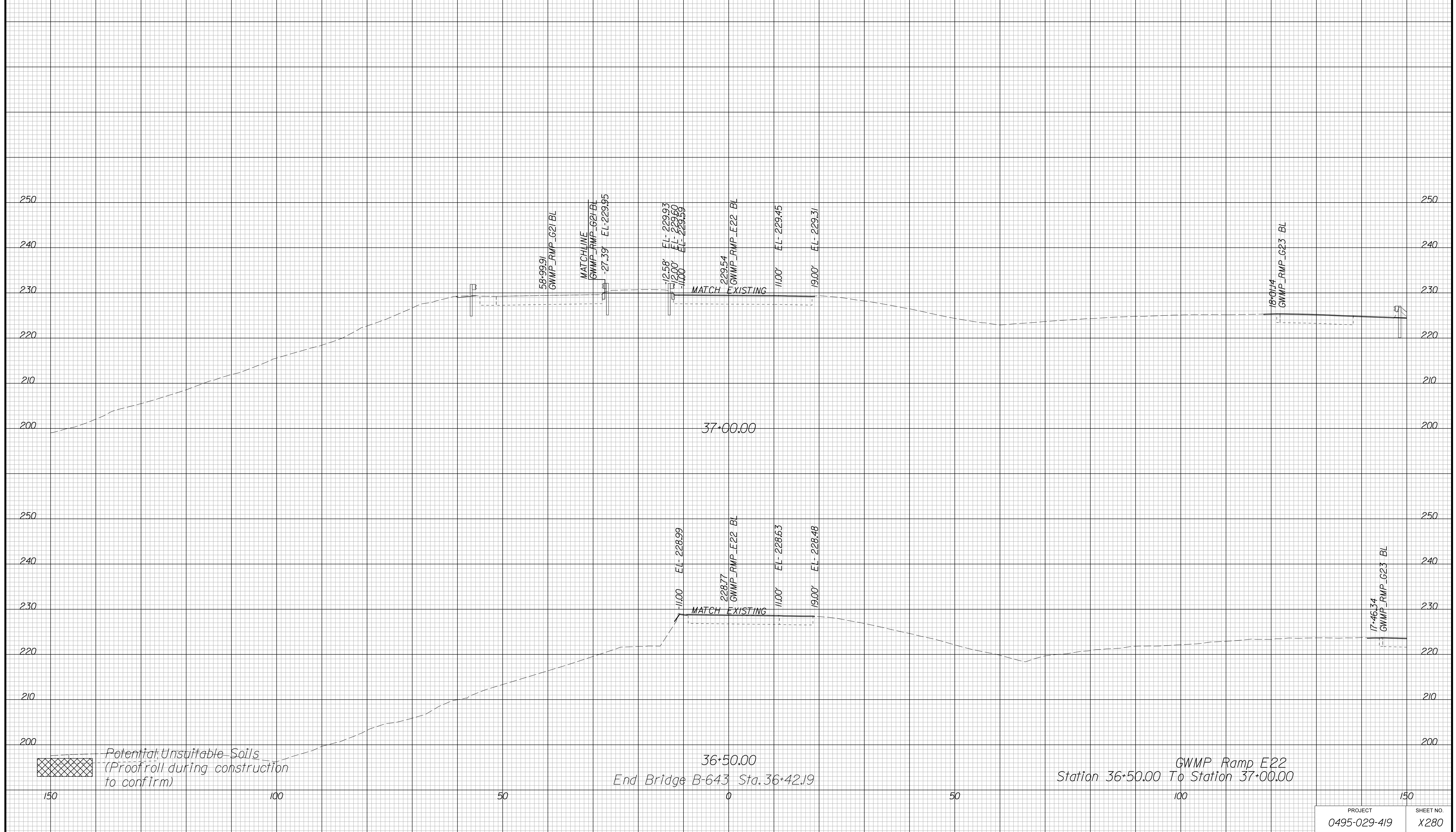
CROSS SECTIONS

SCALE 1 IN. = 10 FT

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

REVISED	STATE	ROUTE	STATE	PROJECT	SHEET NO.
	VA.	495		0495-029-419	X280 AREA 4

Cross Section Labels Are Pertinent Only To The Roadway Associated To The Alignment In Focus. For Labels On Other Roadway See The Appropriate Cross Section Sheet.



APPROVED FOR CONSTRUCTION

PROJECT MANAGER VDOT - Bimbal Stab PE (703) 259-2362
SURVEYED BY DATE BDA - Nicholas Kougoulis LS (703) 334-0837, 12/2021
DESIGN BY BDA - Darrell Eischer BE (703) 334-0823, Dexberry - Ron Jakominich PE (703) 849-0651
SUBSURFACE UTILITY BY DATE Accurmark - Michael Taylor LS (703) 635-3060, 12/2021

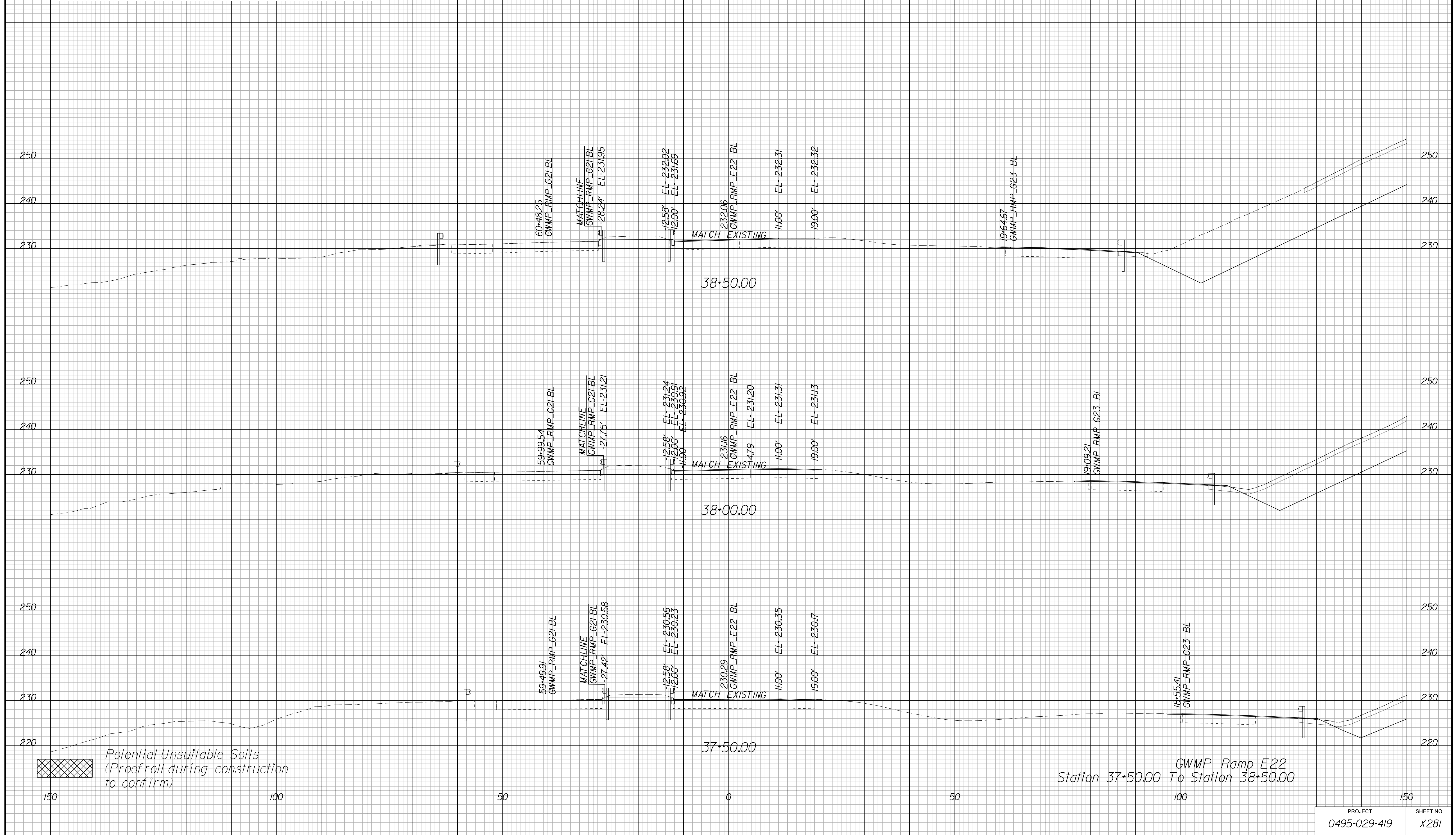
CROSS SECTIONS

SCALE 1 IN. = 10 FT

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

REVISED	STATE	ROUTE	STATE	PROJECT	SHEET NO.
	VA.	495		0495-029-419	X281 AREA 4

Cross Section Labels Are Pertinent Only To The Roadway Associated To The Alignment In Focus. For Labels On Other Roadway See The Appropriate Cross Section Sheet.



GWMP Ramp E22
Station 37+50.00 To Station 38+50.00

PROJECT	SHEET NO.
0495-029-419	X281

APPROVED FOR CONSTRUCTION

PROJECT MANAGER VDOT - Bimbal Stab PE (703) 259-2362
SURVEYED BY, DATE BDA - Nicholas Kougoulis LS (703) 334-0837, 12/2021
DESIGN BY BDA - Darell Eischer BE (703) 334-0823, Dexberry - Ron Jakominich PE (703) 849-0651
SUBSURFACE UTILITY BY, DATE Accurmark - Michael Taylor LS (703) 635-3060, 12/2021

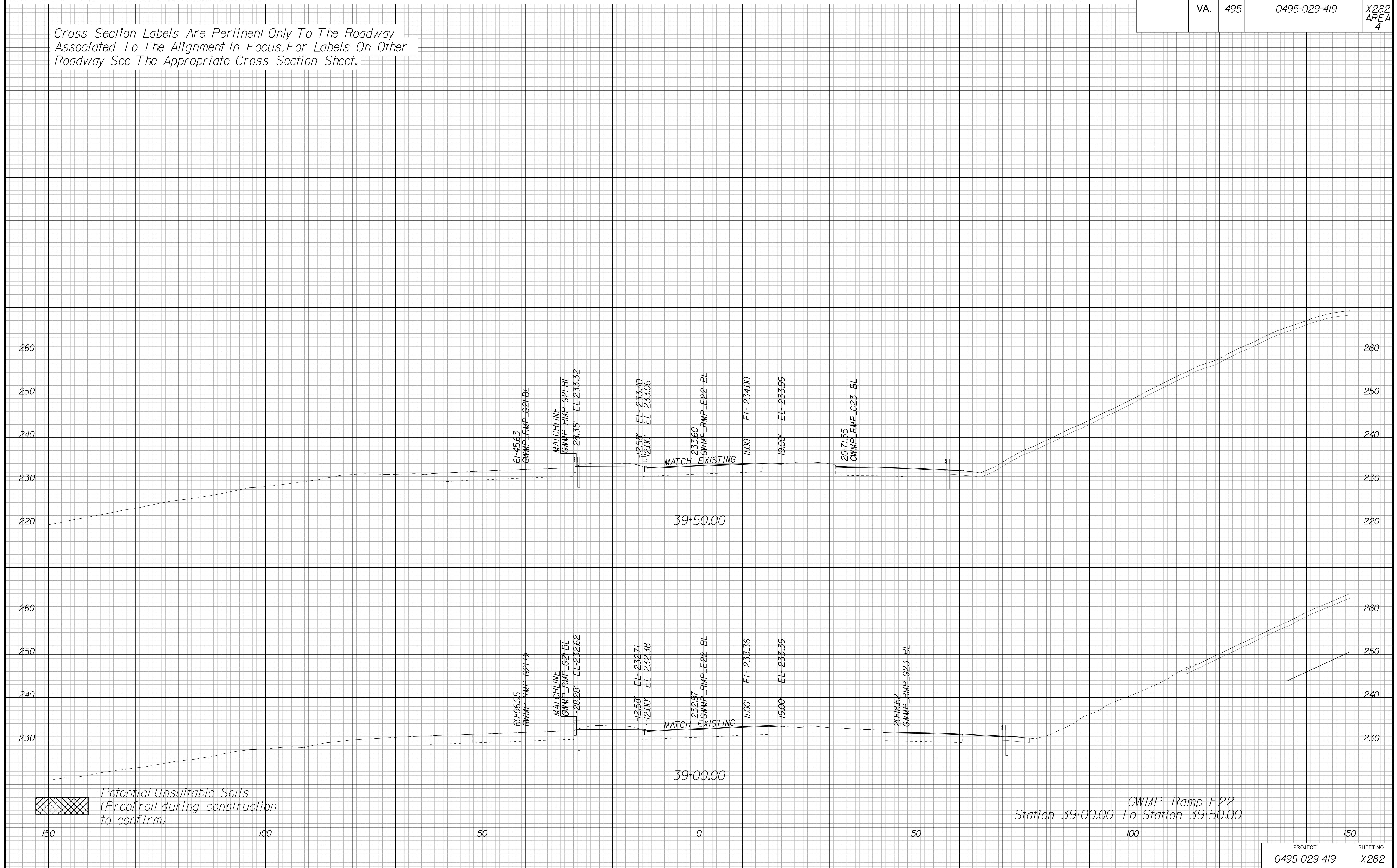
CROSS SECTIONS

SCALE 1 IN. = 10 FT

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

REVISED	STATE	ROUTE	STATE	PROJECT	SHEET NO.
	VA.	495		0495-029-419	X282 AREA 4

Cross Section Labels Are Pertinent Only To The Roadway Associated To The Alignment In Focus. For Labels On Other Roadway See The Appropriate Cross Section Sheet.



APPROVED FOR CONSTRUCTION

PROJECT MANAGER VDOT - Bimal Sabh PE (703) 259-2362
SURVEYED BY DATE BDA - Nicholas Kougoulis LS (703) 334-0837, 12/2021
DESIGN BY BDA - Darrell Eischer BE (703) 334-0823, Daxberry - Ron Jakominich PE (703) 849-0651
SUBSURFACE UTILITY BY DATE Accurmark - Michael Taylor LS (703) 635-3060, 12/2021

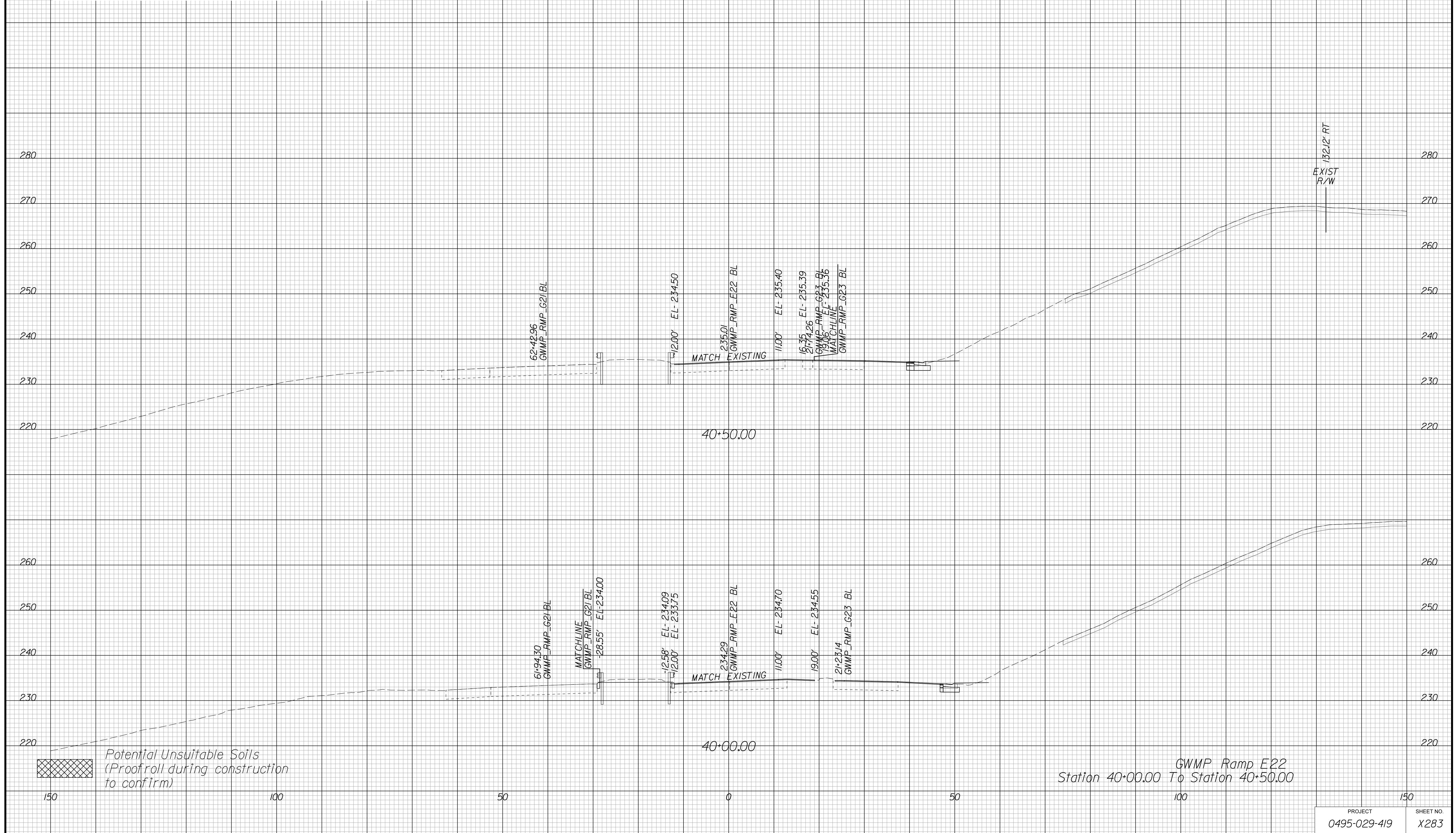
CROSS SECTIONS

SCALE 1 IN. = 10 FT

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

REVISED	STATE	ROUTE	STATE	PROJECT	SHEET NO.
	VA.	495		0495-029-419	X283 AREA 4

Cross Section Labels Are Pertinent Only To The Roadway Associated To The Alignment In Focus. For Labels On Other Roadway See The Appropriate Cross Section Sheet.



APPROVED FOR CONSTRUCTION

PROJECT	SHEET NO.
0495-029-419	X283

PROJECT MANAGER VDOT - Bimbal Stab PE (703) 259-2362
SURVEYED BY DATE BDA - Nicholas Kougoulis LS (703) 334-0837, 12/2021
DESIGN BY BDA - Darrell Eischer BE (703) 334-0823, Daxbery - Ron Jakominich PE (703) 849-0651
SUBSURFACE UTILITY BY DATE Accurmark - Michael Taylor LS (703) 635-3060, 12/2021

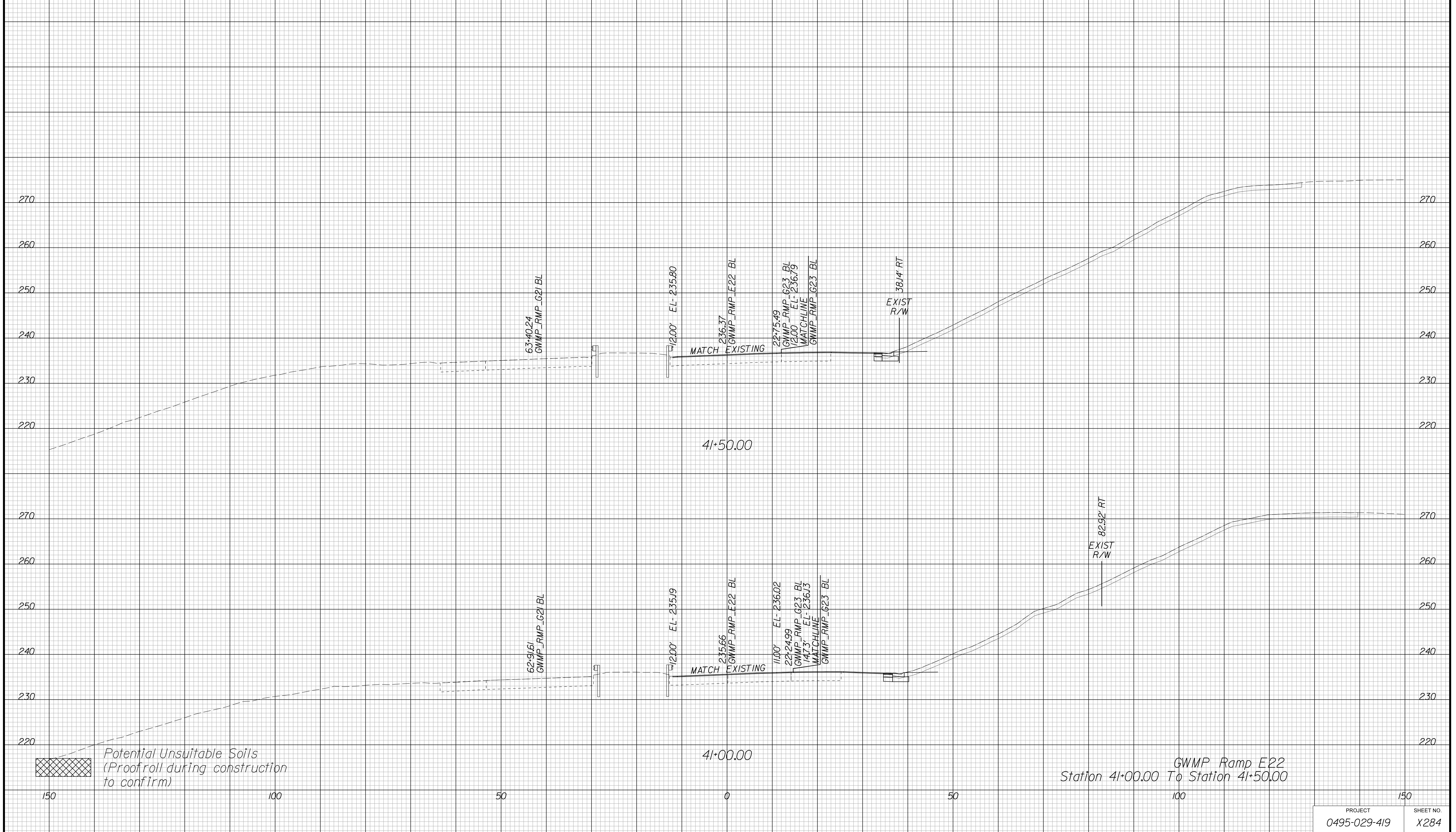
CROSS SECTIONS

SCALE 1 IN. = 10 FT

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

REVISED	STATE	ROUTE	STATE	PROJECT	SHEET NO.
	VA.	495		0495-029-419	X284 AREA 4

Cross Section Labels Are Pertinent Only To The Roadway Associated To The Alignment In Focus. For Labels On Other Roadway See The Appropriate Cross Section Sheet.



APPROVED FOR CONSTRUCTION

PROJECT MANAGER VDOT - Bimbal Stab PE (703) 259-2362
SURVEYED BY, DATE BDA - Nicholas Kougoulis LS (703) 334-0837, 12/2021
DESIGN BY BDA - Darrell Eischer BE (703) 334-0823, Daxberry - Ron Jakominich PE (703) 849-0651
SUBSURFACE UTILITY BY, DATE Accurmark - Michael Taylor LS (703) 635-3060, 12/2021

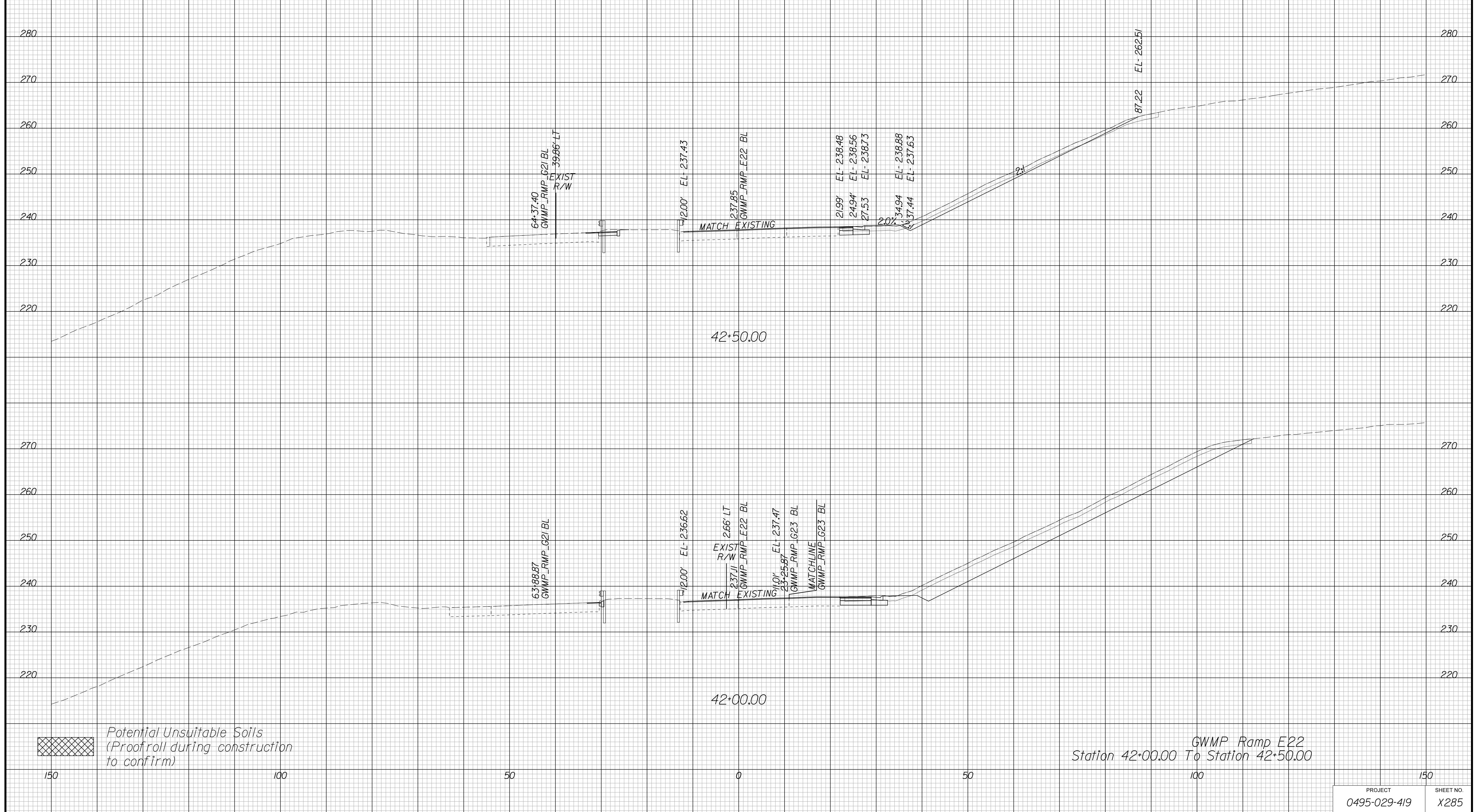
CROSS SECTIONS

SCALE 1 IN. = 10 FT

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

REVISED	STATE	ROUTE	STATE	PROJECT	SHEET NO.
	VA.	495		0495-029-419	X285 AREA 4

Cross Section Labels Are Pertinent Only To The Roadway Associated To The Alignment In Focus. For Labels On Other Roadway See The Appropriate Cross Section Sheet.



APPROVED FOR CONSTRUCTION

PROJECT MANAGER VDOT - Bimbal Stab PE (703) 259-2362
SURVEYED BY DATE BDA - Nicholas Kougoulis LS (703) 334-0837, 12/2021
DESIGN BY BDA - Darrell Eischer BE (703) 334-0823, Dewberry - Ron Jakominich PE (703) 849-0651
SUBSURFACE UTILITY BY DATE Accurmark - Michael Taylor LS (703) 635-3060, 12/2021

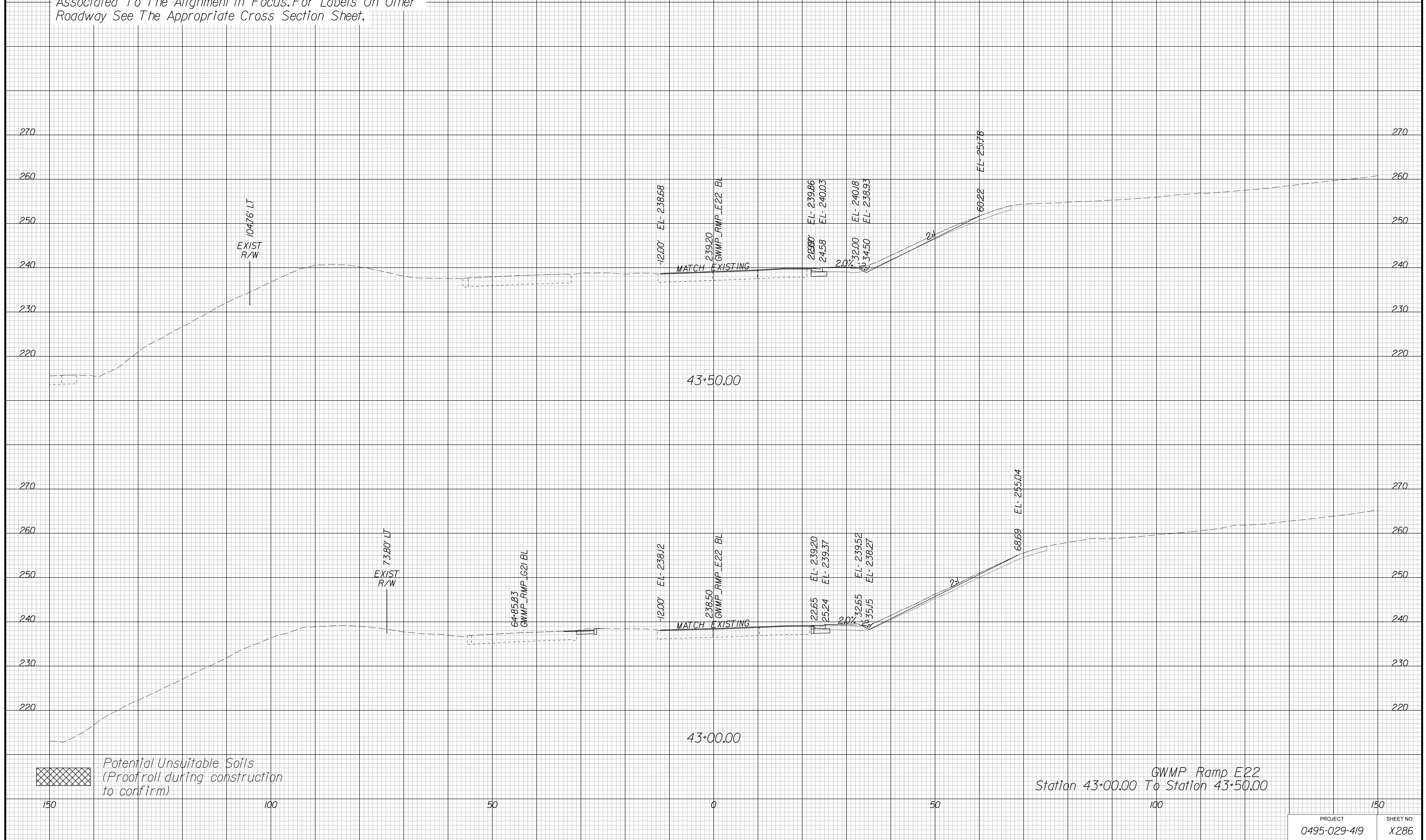
CROSS SECTIONS

SCALE 1 IN. = 10 FT

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

REVISED	STATE	ROUTE	STATE	PROJECT	SHEET NO.
	VA.	495		0495-029-419	X286 AREA 4

Cross Section Labels Are Pertinent Only To The Roadway Associated To The Alignment In Focus. For Labels On Other Roadway See The Appropriate Cross Section Sheet.



APPROVED FOR CONSTRUCTION

PROJECT MANAGER VDOT - Bimbal Stab PE (703) 259-2362
SURVEYED BY, DATE BDA - Nicholas Kouyoulis LS (703) 334-0837, 12/2021
DESIGN BY BDA - Darrell Eischer BE (703) 334-0823, Dawbercy - Ron Jakominich PE (703) 849-0651
SUBSURFACE UTILITY BY, DATE Accurmark - Michael Taylor LS (703) 635-3060, 12/2021

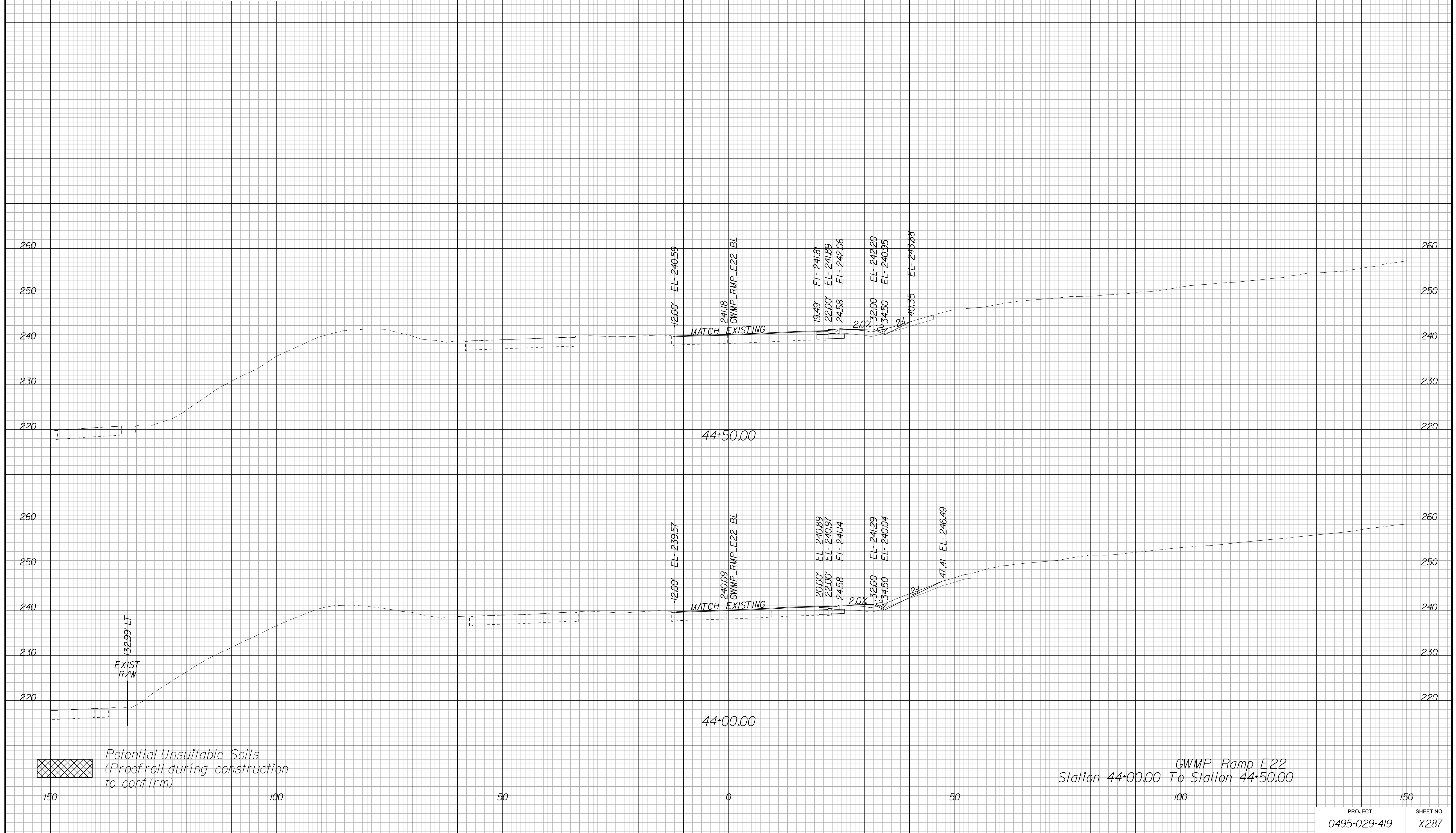
CROSS SECTIONS

SCALE 1 IN. = 10 FT

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

REVISED	STATE	ROUTE	STATE	PROJECT	SHEET NO.
	VA.	495		0495-029-419	X287 AREA 4

Cross Section Labels Are Pertinent Only To The Roadway Associated To The Alignment In Focus. For Labels On Other Roadway See The Appropriate Cross Section Sheet.



GWMP Ramp E22
Station 44+00.00 To Station 44+50.00

APPROVED FOR CONSTRUCTION

PROJECT MANAGER VDOT - Bimbal Stab PE (703) 259-2362
SURVEYED BY, DATE BDA - Nicholas Kougoulis LS (703) 334-0837, 12/2021
DESIGN BY BDA - Darrell Eischer BE (703) 334-0823, Daxberry - Ron Jakominich PE (703) 849-0651
SUBSURFACE UTILITY BY, DATE Accurmark - Michael Taylor LS (703) 635-3060, 12/2021

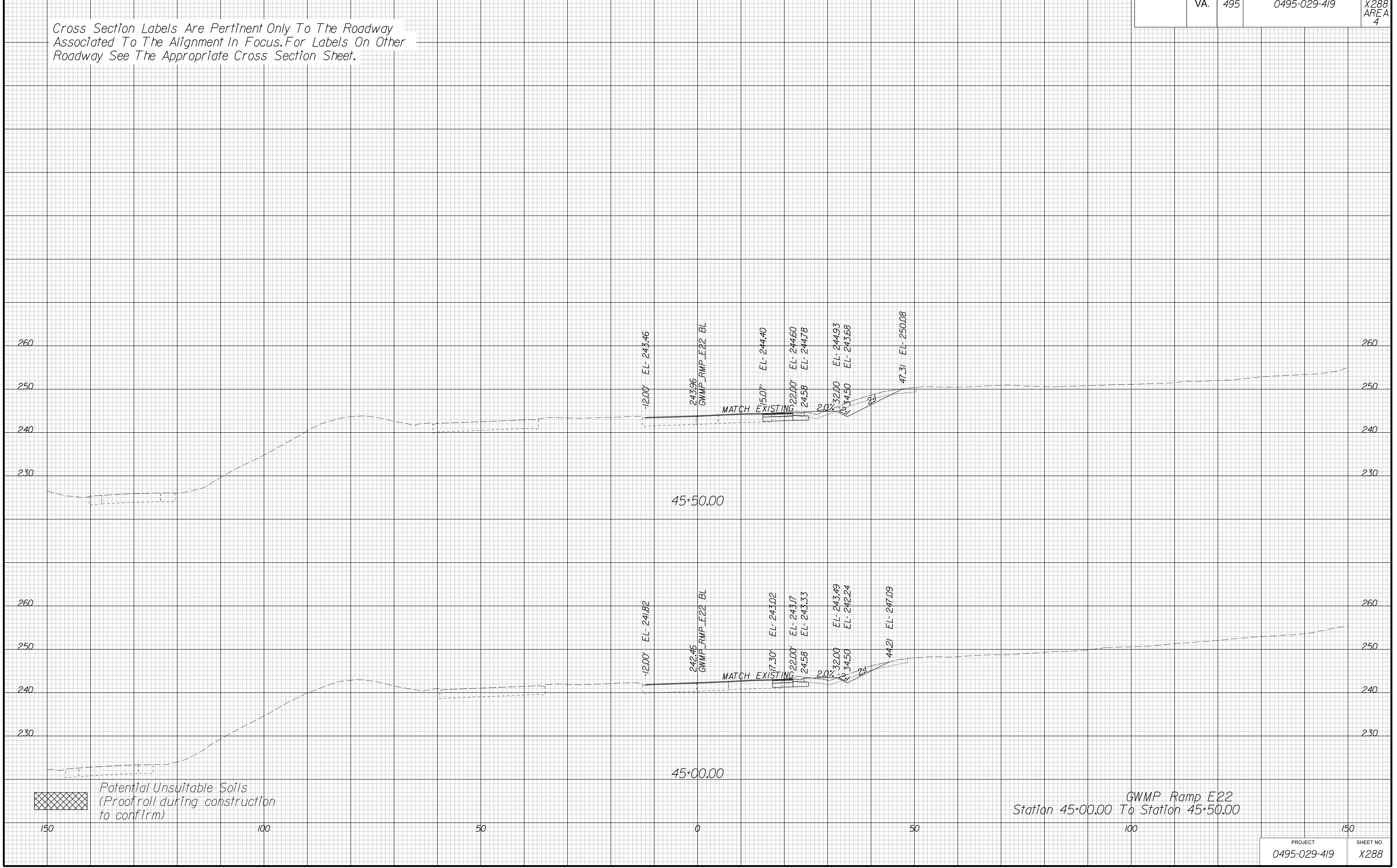
CROSS SECTIONS

SCALE 1 IN. = 10 FT

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

REVISED	STATE	ROUTE	STATE	PROJECT	SHEET NO.
	VA.	495		0495-029-419	X288 AREA 4

Cross Section Labels Are Pertinent Only To The Roadway Associated To The Alignment In Focus. For Labels On Other Roadway See The Appropriate Cross Section Sheet.



GWMP Ramp E22
Station 45+00.00 To Station 45+50.00

APPROVED FOR CONSTRUCTION

PROJECT MANAGER VDOT - Bimbal Stab PE (703) 259-2362
SURVEYED BY DATE BDA - Nicholas Kougoulis LS (703) 334-0837, 12/2021
DESIGN BY BDA - Darell Eischer BE (703) 334-0823, Dexberry - Ron Jakominich PE (703) 849-0651
SUBSURFACE UTILITY BY DATE Accurmark - Michael Taylor LS (703) 635-3060, 12/2021

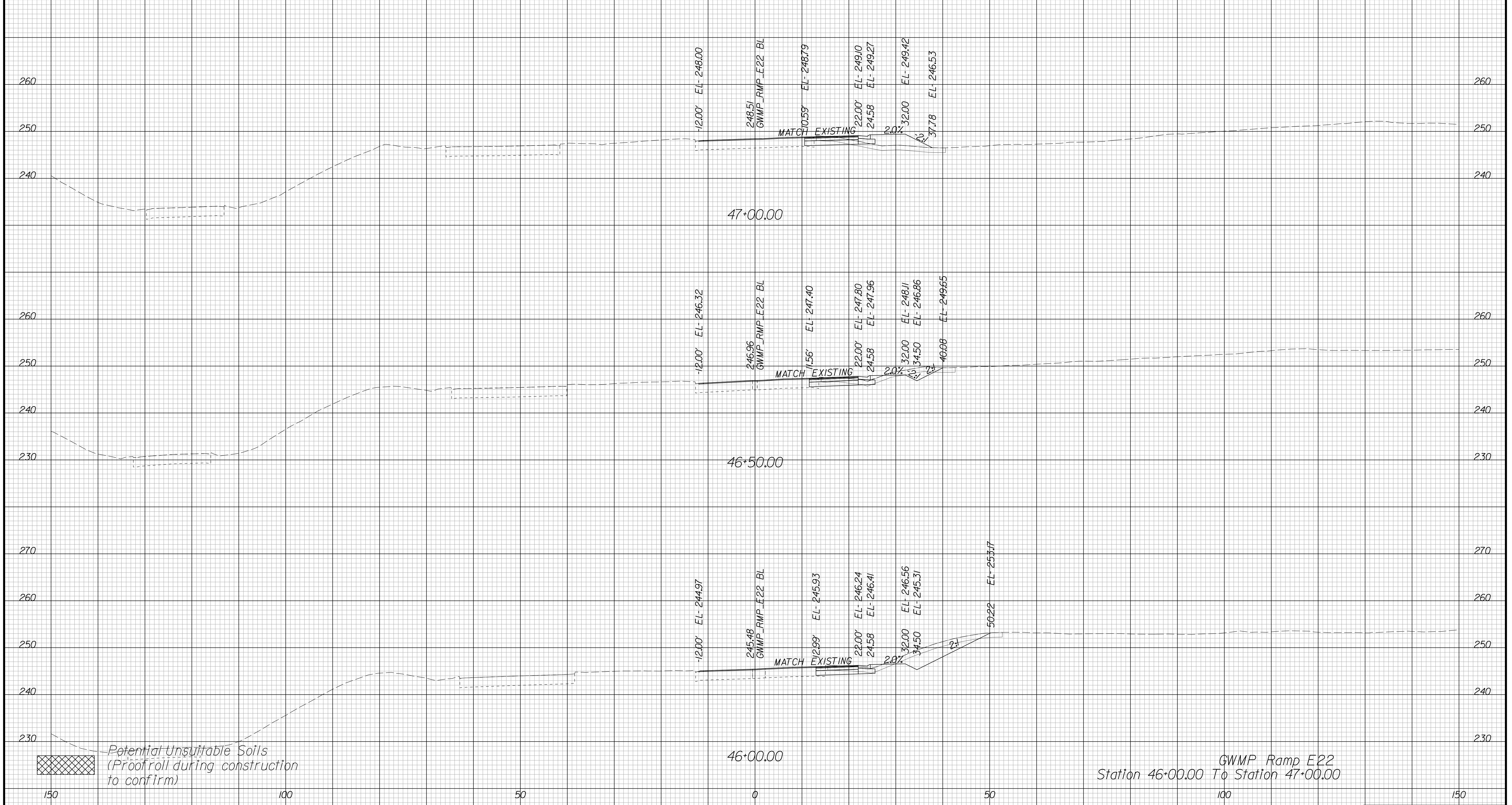
CROSS SECTIONS

SCALE 1 IN. = 10 FT

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

REVISED	STATE	ROUTE	STATE	PROJECT	SHEET NO.
	VA.	495		0495-029-419	X289 AREA 4

Cross Section Labels Are Pertinent Only To The Roadway Associated To The Alignment In Focus. For Labels On Other Roadway See The Appropriate Cross Section Sheet.



GWMP Ramp E22
Station 46+00.00 To Station 47+00.00

Potential Unsuitable Soils
(Proofroll during construction to confirm)

PROJECT	SHEET NO.
0495-029-419	X289

APPROVED FOR CONSTRUCTION

PROJECT MANAGER VDOT - Bipal Stab PE (703) 259-2362
SURVEYED BY DATE BDA - Nicholas Kougoulis LS (703) 334-0837, 12/2021
DESIGN BY BDA - Darrell Eischer BE (703) 334-0823, Dewberry - Ron Jakominich PE (703) 849-0651
SUBSURFACE UTILITY BY DATE Accurmark - Michael Taylor LS (703) 635-3060, 12/2021

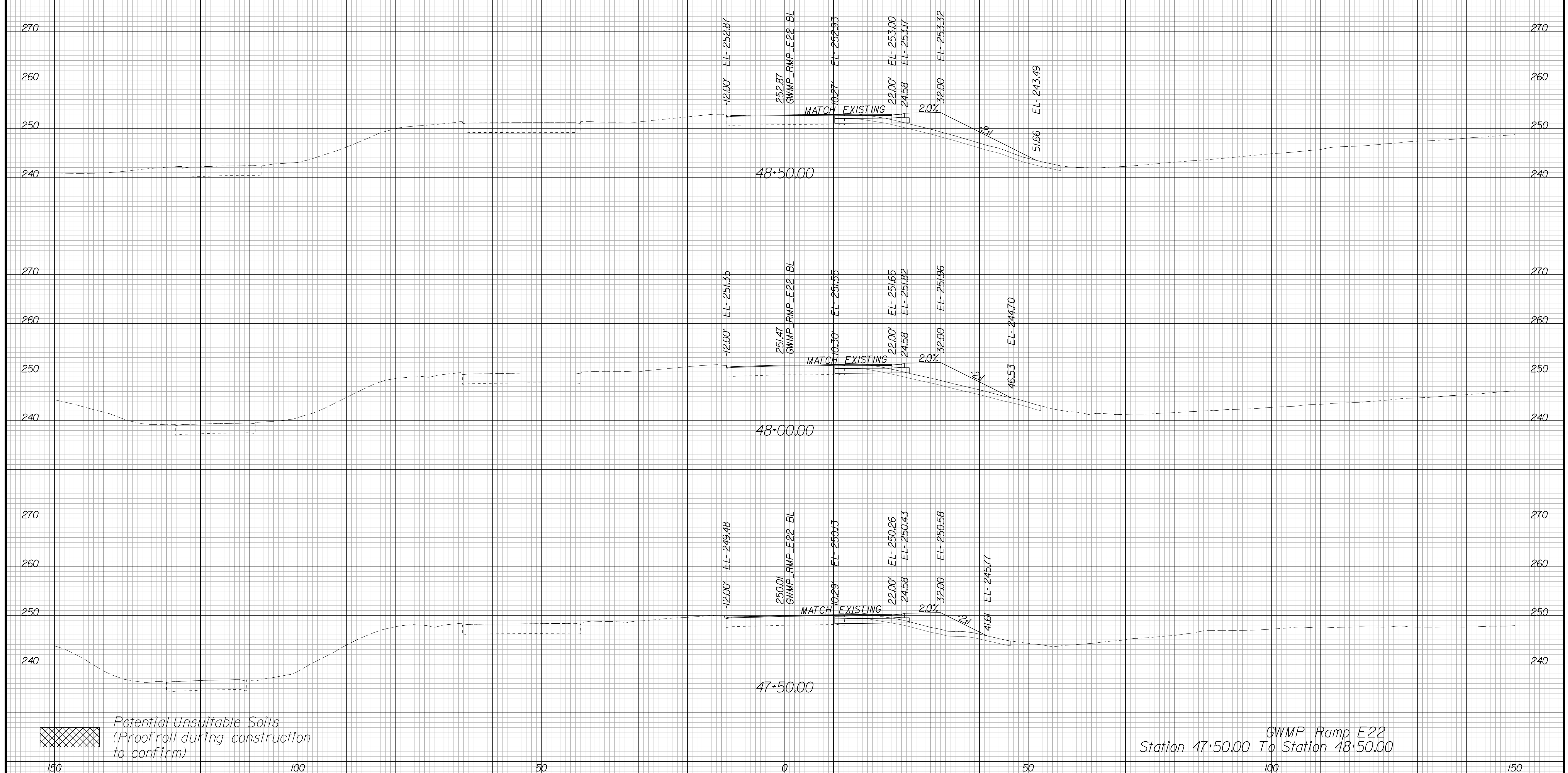
CROSS SECTIONS

SCALE 1 IN. = 10 FT

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

REVISED	STATE	ROUTE	STATE PROJECT	SHEET NO.
	VA.	495	0495-029-419	X290 AREA 4

Cross Section Labels Are Pertinent Only To The Roadway Associated To The Alignment In Focus. For Labels On Other Roadway See The Appropriate Cross Section Sheet.



GWMP Ramp E22
Station 47+50.00 To Station 48+50.00

Potential Unsuitable Soils
(Proofroll during construction to confirm)

PROJECT	SHEET NO.
0495-029-419	X290

APPROVED FOR CONSTRUCTION

PROJECT MANAGER VDOT - Bimal Sab PE (703) 259-2362
SURVEYED BY, DATE BDA - Nicholas Kougoulis LS (703) 334-0837, 12/2021
DESIGN BY BDA - Darrell Eischer BE (703) 334-0823, Dewberry - Ron Jakominich PE (703) 849-0651
SUBSURFACE UTILITY BY, DATE Accurmark - Michael Taylor LS (703) 635-3060, 12/2021

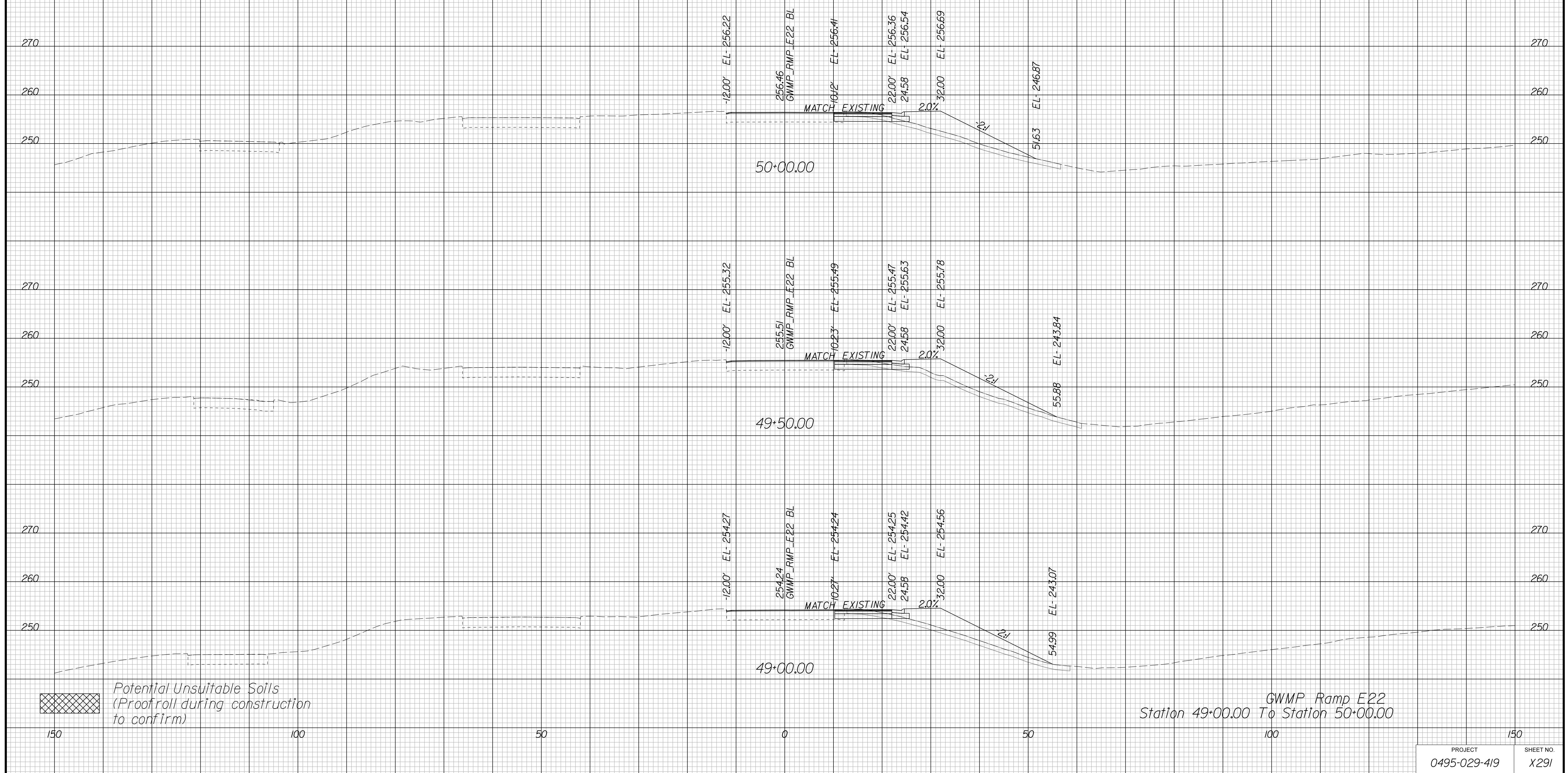
CROSS SECTIONS

SCALE 1 IN. = 10 FT

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

REVISED	STATE	ROUTE	STATE PROJECT	SHEET NO.
	VA.	495	0495-029-419	X291 AREA 4

Cross Section Labels Are Pertinent Only To The Roadway Associated To The Alignment In Focus. For Labels On Other Roadway See The Appropriate Cross Section Sheet.



APPROVED FOR CONSTRUCTION

PROJECT MANAGER VDOT - Bimbal Stab PE (703) 259-2362
SURVEYED BY DATE BDA - Nicholas Kougoulis LS (703) 334-0837, 12/2021
DESIGN BY BDA - Darrell Eischer BE (703) 334-0823, Dawbercy - Ron Jakominich PE (703) 849-0651
SUBSURFACE UTILITY BY DATE Accurmark - Michael Taylor LS (703) 635-3060, 12/2021

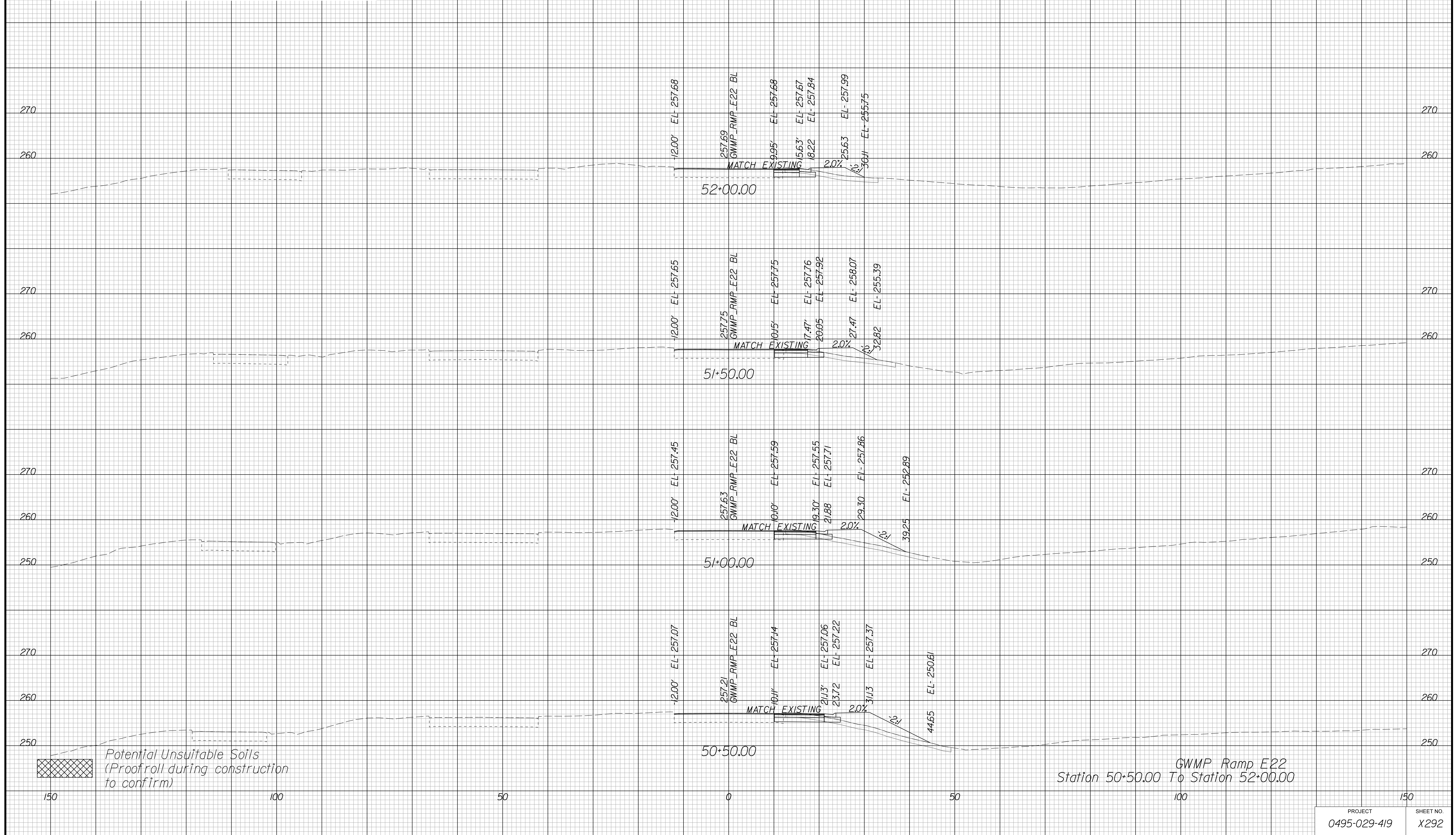
CROSS SECTIONS

SCALE 1 IN. = 10 FT

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

REVISED	STATE	ROUTE	STATE PROJECT	SHEET NO.
	VA.	495	0495-029-419	X292 AREA 4

Cross Section Labels Are Pertinent Only To The Roadway Associated To The Alignment In Focus. For Labels On Other Roadway See The Appropriate Cross Section Sheet.



APPROVED FOR CONSTRUCTION

PROJECT MANAGER VDOT - Bimbal Stab PE (703) 259-2362
SURVEYED BY DATE BDA - Nicholas Kougoulis LS (703) 334-0837, 12/2021
DESIGN BY BDA - Darrell Eischer BE (703) 334-0823, Dawbergy - Ron Jakominich PE (703) 849-0651
SUBSURFACE UTILITY BY DATE Accurmark - Michael Taylor LS (703) 635-3060, 12/2021

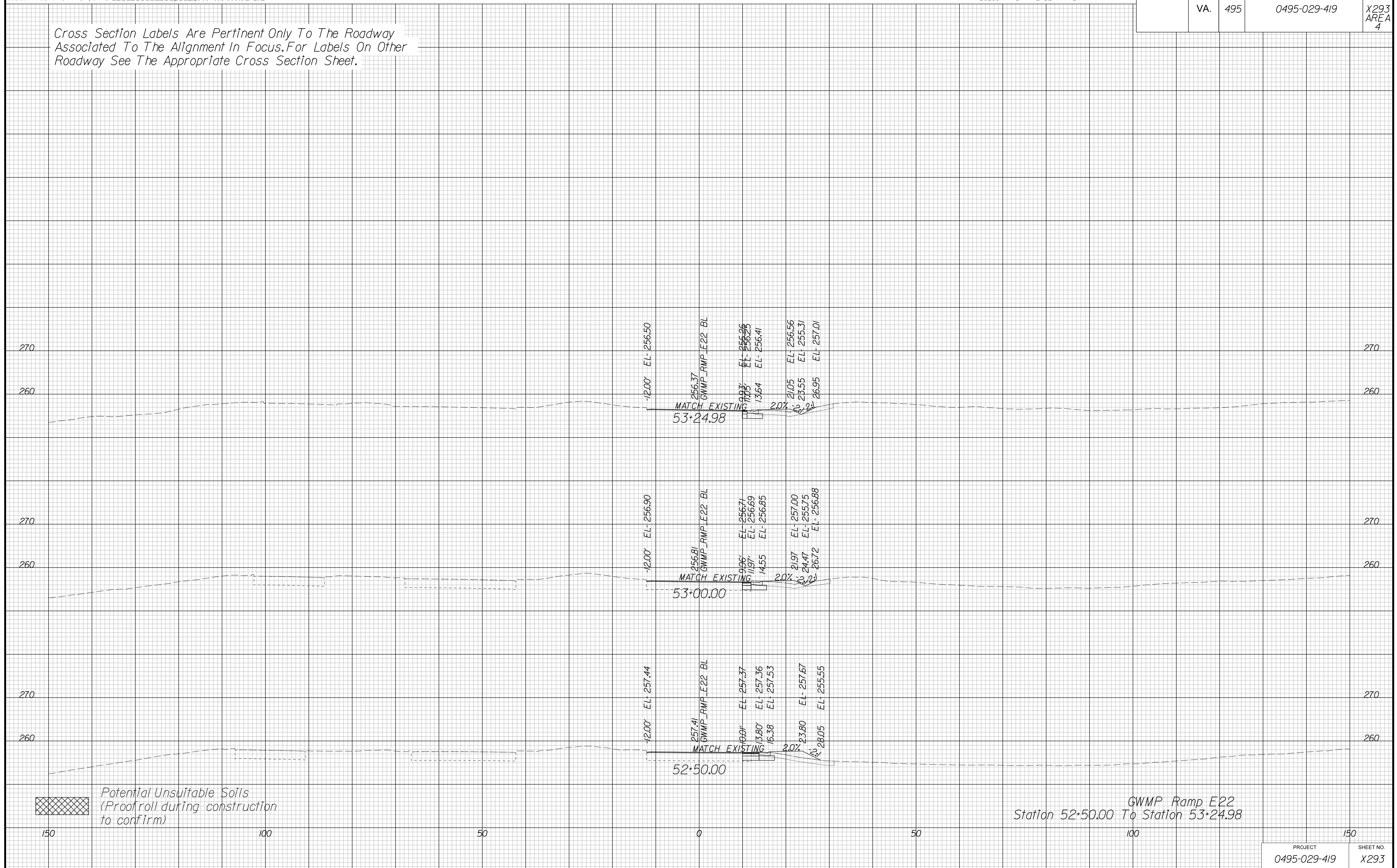
CROSS SECTIONS

SCALE 1 IN. = 10 FT

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

REVISED	STATE	ROUTE	STATE PROJECT	SHEET NO.
	VA.	495	0495-029-419	X293 AREA 4

Cross Section Labels Are Pertinent Only To The Roadway Associated To The Alignment In Focus. For Labels On Other Roadway See The Appropriate Cross Section Sheet.



PROJECT	SHEET NO.
0495-029-419	X293

APPROVED FOR CONSTRUCTION

PROJECT MANAGER VDOT - Bimbal Stab PE (703) 259-2362
SURVEYED BY DATE BDA - Nicholas Kougioulis LS (703) 334-0837, 12/2021
DESIGN BY BDA - Darrell Eischer BE (703) 334-0823, Dewberry - Ron Jakominich PE (703) 849-0651
SUBSURFACE UTILITY BY DATE Accurmark - Michael Taylor LS (703) 635-3060, 12/2021

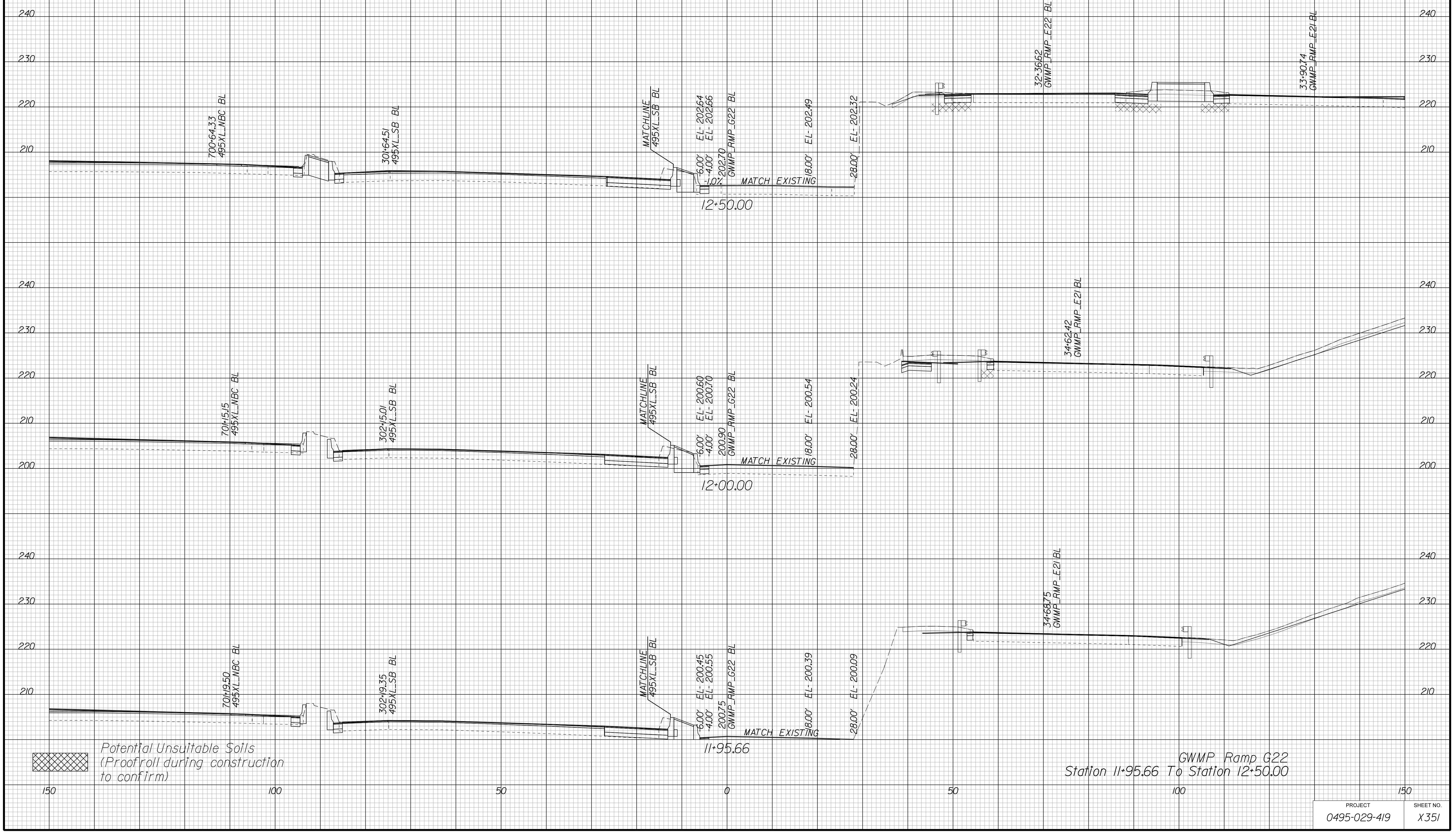
CROSS SECTIONS

SCALE 1 IN. = 10 FT

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

REVISED	STATE	ROUTE	STATE	PROJECT	SHEET NO.
	VA.	495		0495-029-419	X35/ AREA 4

Cross Section Labels Are Pertinent Only To The Roadway Associated To The Alignment In Focus. For Labels On Other Roadway See The Appropriate Cross Section Sheet.



APPROVED FOR CONSTRUCTION

PROJECT MANAGER VDOT - Bimbal Sabo PE (703) 259-2362
SURVEYED BY DATE BDA - Nicholas Kougoulis LS (703) 334-0837, 12/2021
DESIGN BY BDA - Darrell Eischer BE (703) 334-0823, Dawbergy - Ron Jakominich PE (703) 849-0651
SUBSURFACE UTILITY BY DATE Accurmark - Michael Taylor LS (703) 635-3060, 12/2021

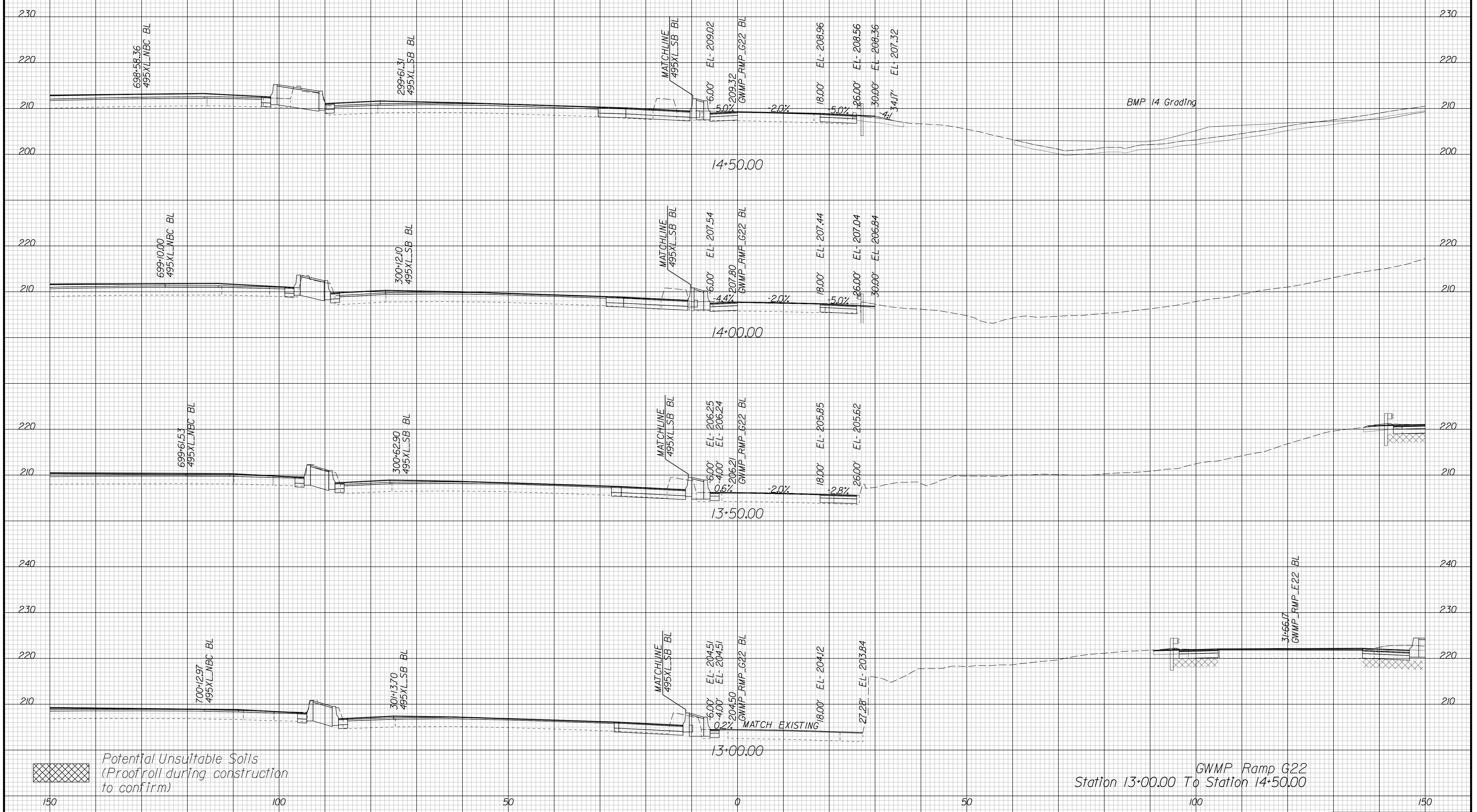
CROSS SECTIONS

SCALE 1 IN. = 10 FT

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

REVISED	STATE	ROUTE	STATE	PROJECT	SHEET NO.
	VA.	495		0495-029-419	X352 AREA 4

Cross Section Labels Are Pertinent Only To The Roadway Associated To The Alignment In Focus. For Labels On Other Roadway See The Appropriate Cross Section Sheet.



GWMP Ramp G22
Station 13+00.00 To Station 14+50.00

PROJECT	SHEET NO.
0495-029-419	X352

APPROVED FOR CONSTRUCTION

PROJECT MANAGER VDOT - Bimbal Stab PE (703) 259-2362
SURVEYED BY DATE BDA - Nicholas Koussoulis LS (703) 334-0837, 12/2021
DESIGN BY BDA - Darrell Elischer BE (703) 334-0823, Dexberry - Ron Jakominich PE (703) 849-0651
SUBSURFACE UTILITY BY DATE Accumar - Michael Taylor LS (703) 635-3060, 12/2021

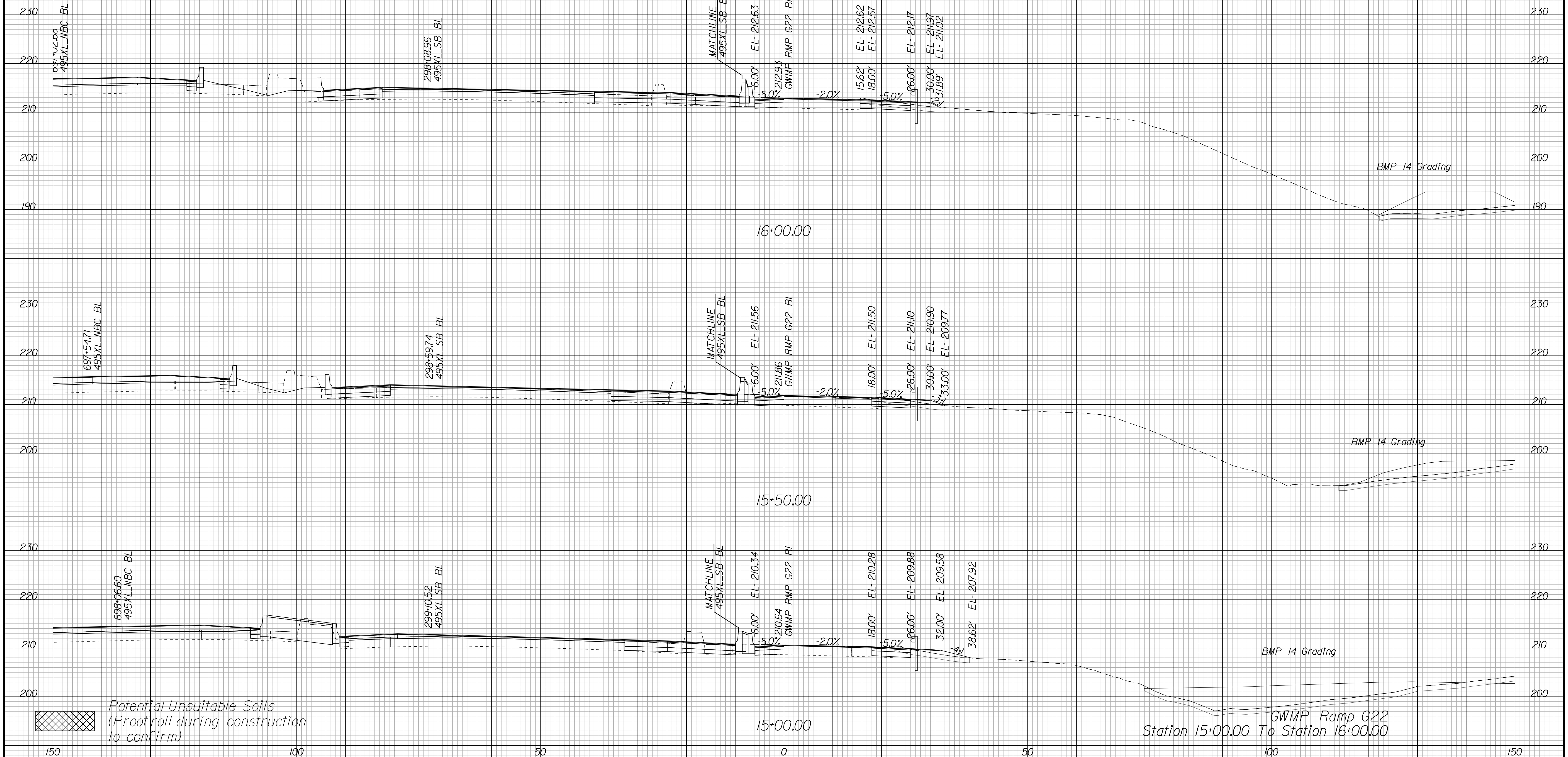
CROSS SECTIONS

SCALE 1 IN. = 10 FT

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

REVISED	STATE	ROUTE	STATE	PROJECT	SHEET NO.
	VA.	495		0495-029-419	X353 AREA 4

Cross Section Labels Are Pertinent Only To The Roadway Associated To The Alignment In Focus. For Labels On Other Roadway See The Appropriate Cross Section Sheet.



Station 15+00.00 To Station 16+00.00

APPROVED FOR CONSTRUCTION

PROJECT MANAGER VDOT - Bipal Sab PE (703) 259-2362
SURVEYED BY, DATE BDA - Nicholas Kougoulis LS (703) 334-0837, 12/2021
DESIGN BY BDA - Darrell Eischer BE (703) 334-0823, Dewberry - Ron Jakominich PE (703) 849-0651
SUBSURFACE UTILITY BY, DATE Accurmark - Michael Taylor LS (703) 635-3060, 12/2021

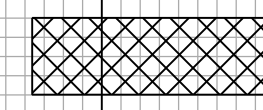
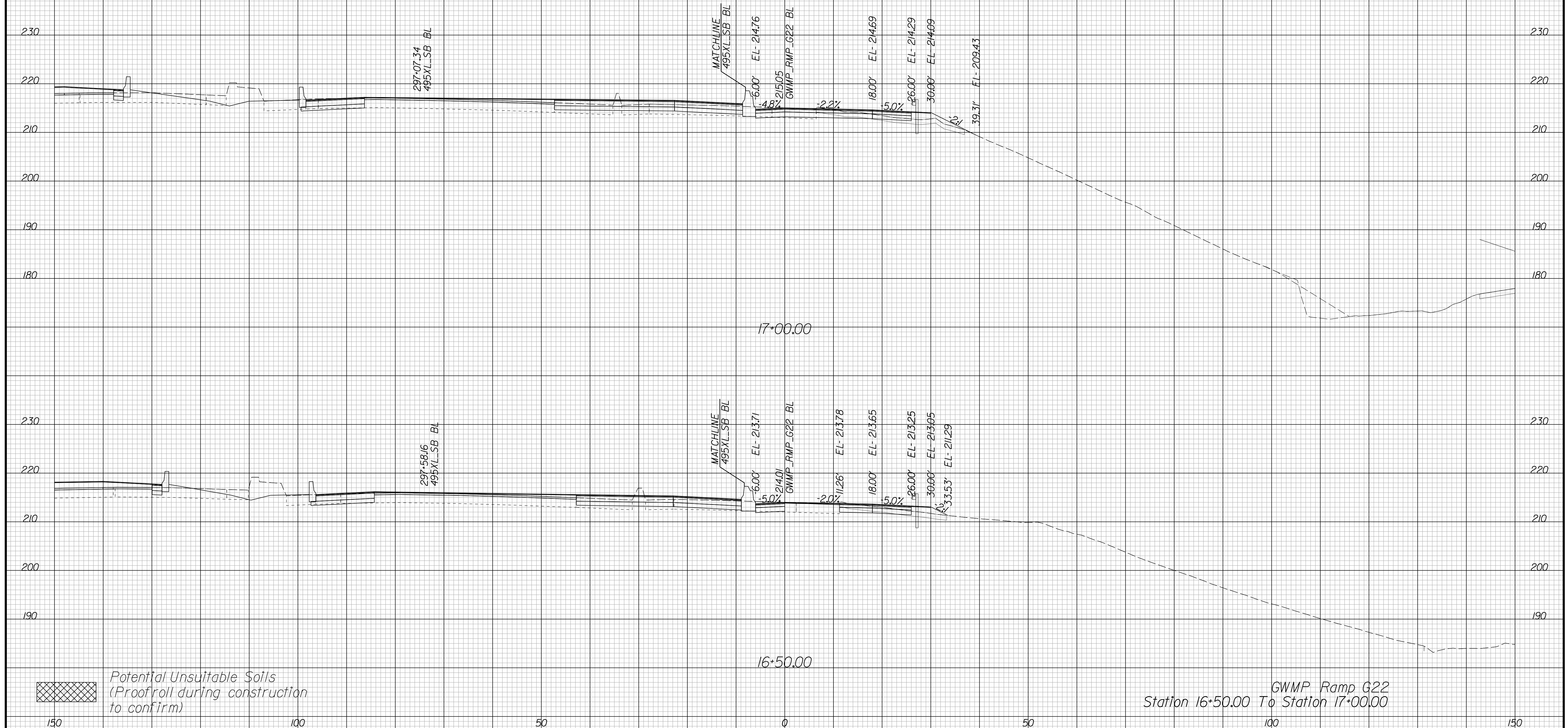
CROSS SECTIONS

SCALE 1 IN. = 10 FT

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

REVISI	STATE	ROUTE	STATE	PROJECT	SHEET NO.
	VA.	495		0495-029-419	X354 AREA 4

Cross Section Labels Are Pertinent Only To The Roadway Associated To The Alignment In Focus. For Labels On Other Roadway See The Appropriate Cross Section Sheet.



Potential Unsuitable Soils
(Proofroll during construction to confirm)

GWMP Ramp G22
Station 16+50.00 To Station 17+00.00

APPROVED FOR CONSTRUCTION

PROJECT MANAGER VDOT - Bipal Stab PE (703) 259-2362
SURVEYED BY, DATE BDA - Nicholas Kougoulis LS (703) 334-0837, 12/2021
DESIGN BY BDA - Darrell Eischer BE (703) 334-0823, Dewberry - Ron Jakominich PE (703) 849-0651
SUBSURFACE UTILITY BY, DATE Accurmark - Michael Taylor LS (703) 635-3060, 12/2021

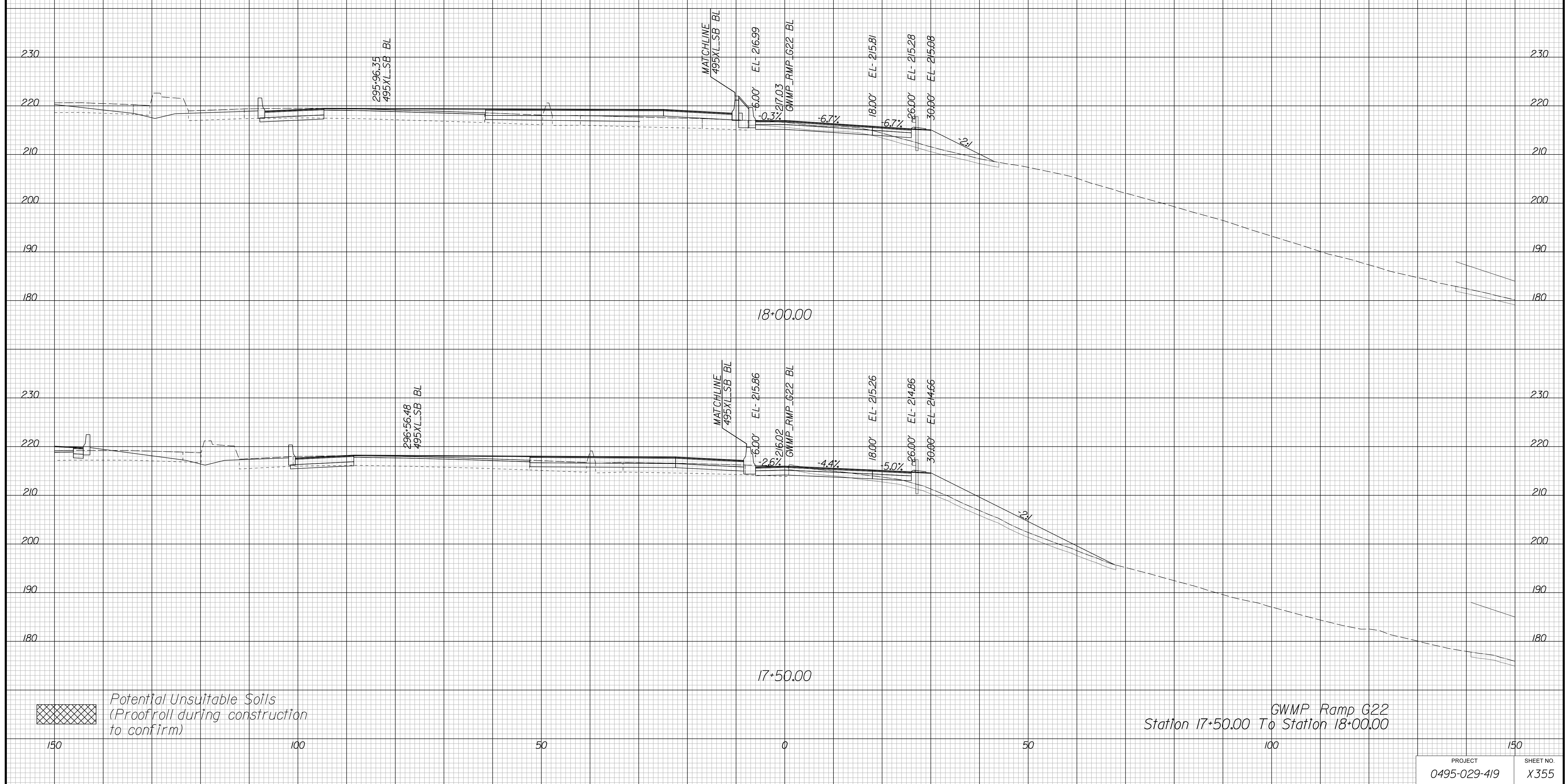
CROSS SECTIONS

SCALE 1 IN. = 10 FT

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

REVISED	STATE	ROUTE	STATE	PROJECT	SHEET NO.
	VA.	495		0495-029-419	X355 AREA 4

Cross Section Labels Are Pertinent Only To The Roadway Associated To The Alignment In Focus. For Labels On Other Roadway See The Appropriate Cross Section Sheet.



APPROVED FOR CONSTRUCTION

PROJECT MANAGER VDOT - Bimbal Stab PE (703) 259-2362
SURVEYED BY DATE BDA - Nicholas Kougoulis LS (703) 334-0837, 12/2021
DESIGN BY BDA - Darrell Eischer BE (703) 334-0823, Dawbercy - Ron Jakominich PE (703) 849-0651
SUBSURFACE UTILITY BY DATE Accurmark - Michael Taylor LS (703) 635-3060, 12/2021

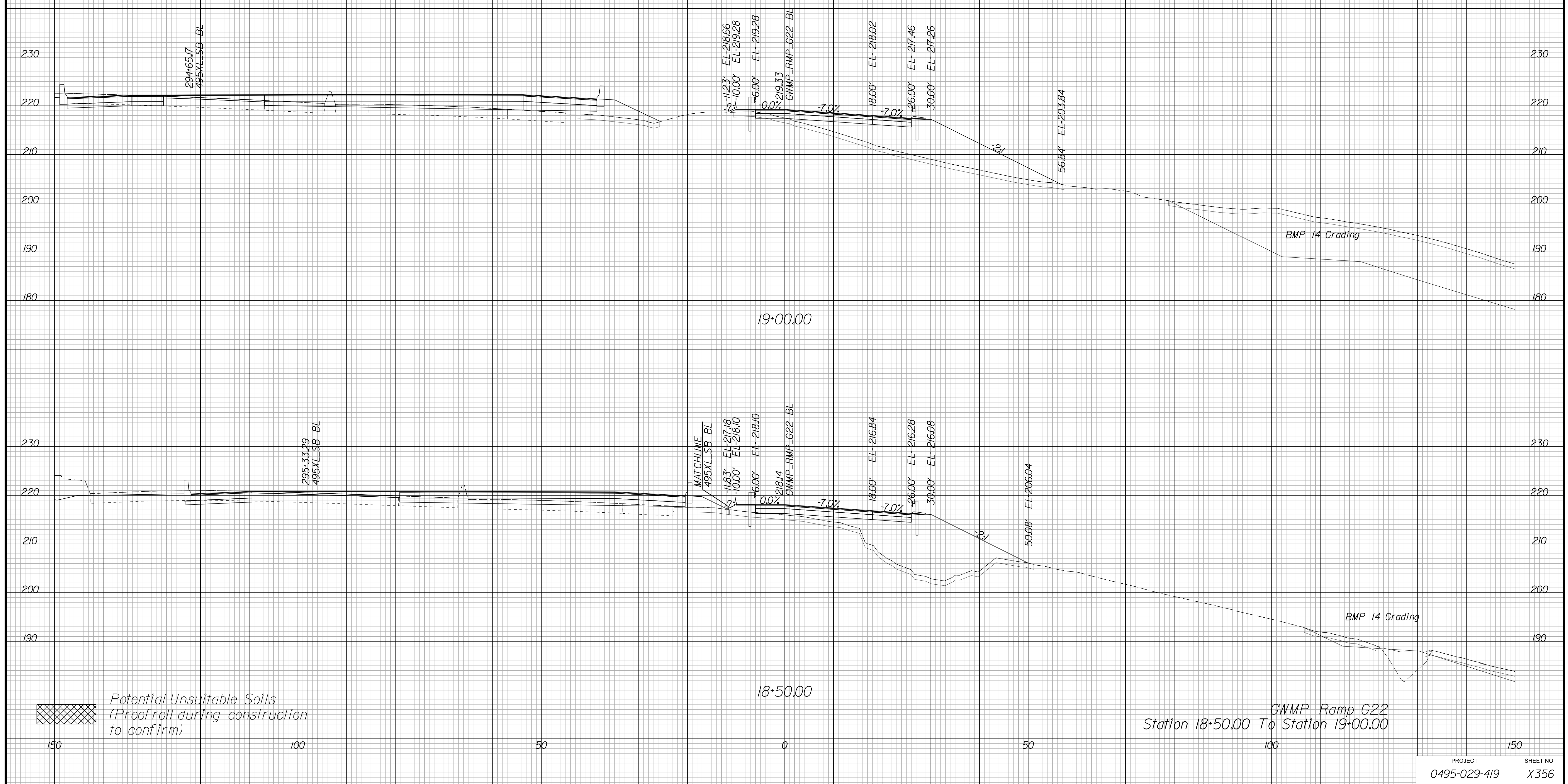
CROSS SECTIONS

SCALE 1 IN. = 10 FT

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

REVISED	STATE	ROUTE	STATE	PROJECT	SHEET NO.
	VA.	495		0495-029-419	X356 AREA 4

Cross Section Labels Are Pertinent Only To The Roadway Associated To The Alignment In Focus. For Labels On Other Roadway See The Appropriate Cross Section Sheet.



APPROVED FOR CONSTRUCTION

PROJECT	SHEET NO.
0495-029-419	X356

PROJECT MANAGER VDOT - Bipal Stab PE (703) 259-2362
SURVEYED BY, DATE BDA - Nicholas Kougoulis LS (703) 334-0837, 12/2021
DESIGN BY BDA - Darrell Eischer BE (703) 334-0823, Dewberry - Ron Jakominich PE (703) 849-0651
SUBSURFACE UTILITY BY, DATE Accurmark - Michael Taylor LS (703) 635-3060, 12/2021

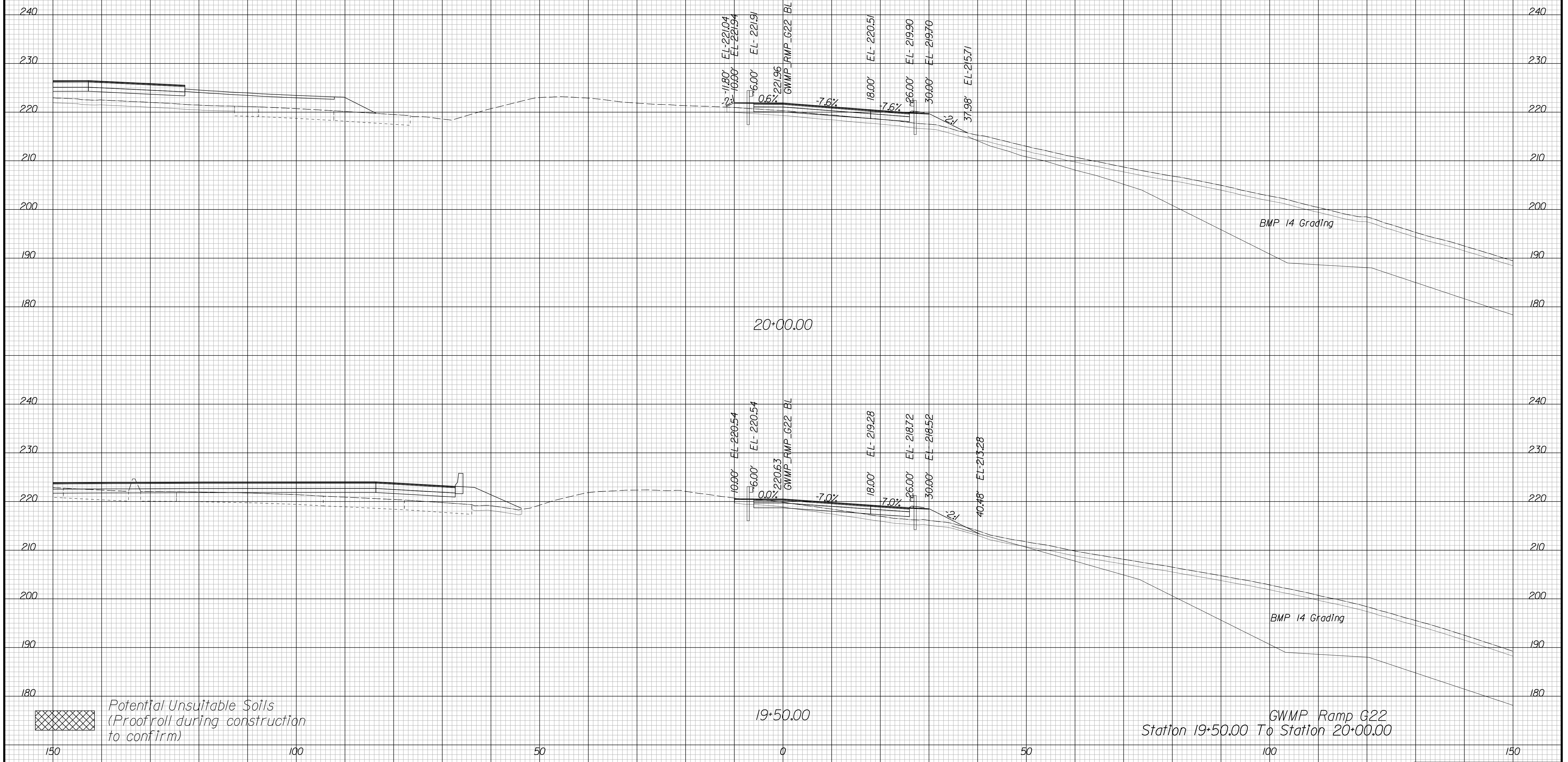
CROSS SECTIONS

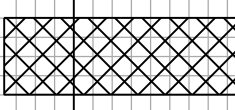
SCALE 1 IN. = 10 FT

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

REVISED	STATE	ROUTE	STATE	PROJECT	SHEET NO.
	VA.	495		0495-029-419	X357 AREA 4

Cross Section Labels Are Pertinent Only To The Roadway Associated To The Alignment In Focus. For Labels On Other Roadway See The Appropriate Cross Section Sheet.



 Potential Unsuitable Soils (Proofroll during construction to confirm)

GWMP Ramp G22
Station 19+50.00 To Station 20+00.00

APPROVED FOR CONSTRUCTION

PROJECT	SHEET NO.
0495-029-419	X357

PROJECT MANAGER VDOT - Bipal Stab PE (703) 259-2362
SURVEYED BY, DATE BDA - Nicholas Kougoulis LS (703) 334-0837, 12/2021
DESIGN BY BDA - Darrell Eischer BE (703) 334-0823, Dexberry - Ron Jakominich PE (703) 849-0651
SUBSURFACE UTILITY BY, DATE Accurmark - Michael Taylor LS (703) 635-3060, 12/2021

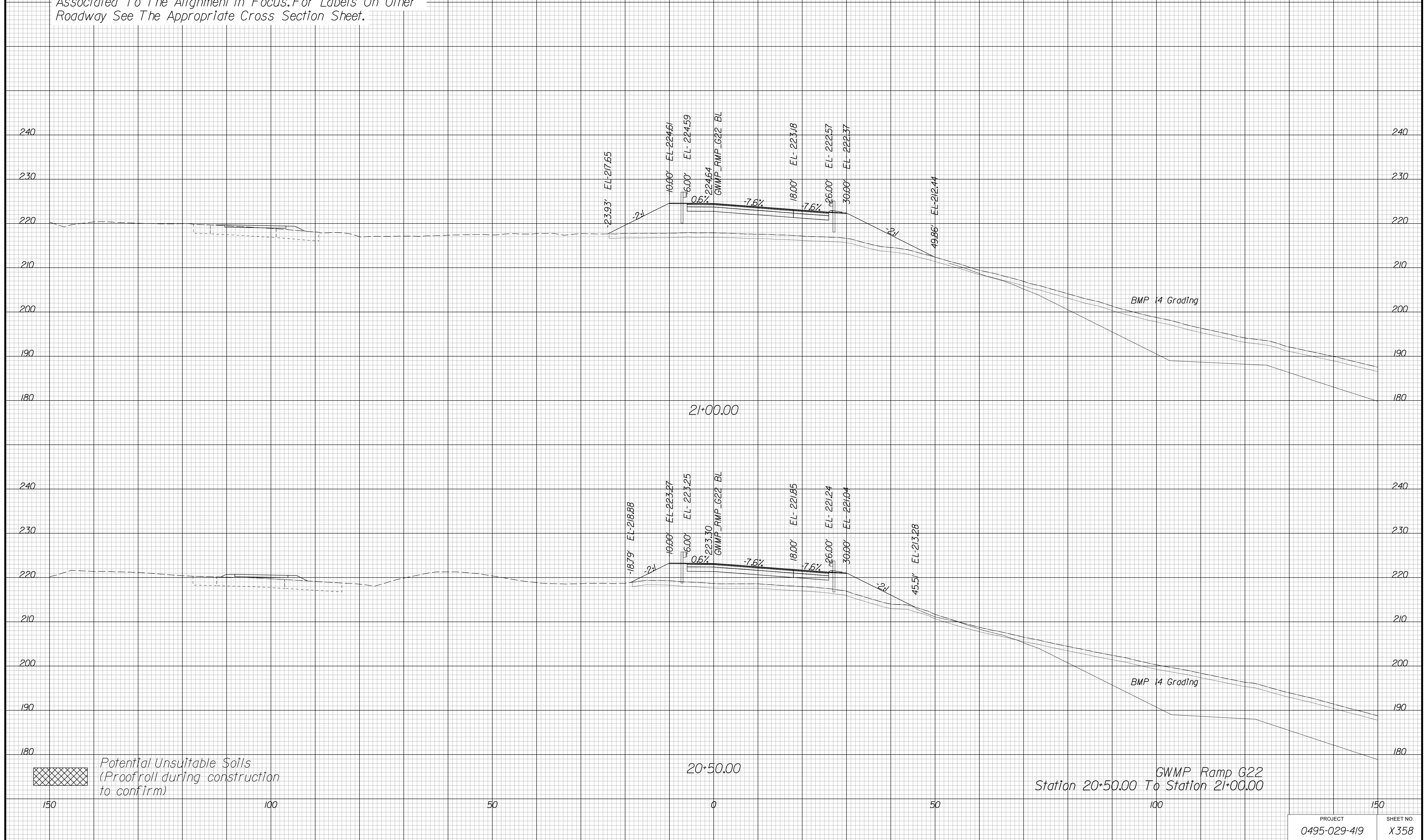
CROSS SECTIONS

SCALE 1 IN. = 10 FT

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

REVISED	STATE	ROUTE	STATE	PROJECT	SHEET NO.
	VA.	495		0495-029-419	X358 AREA 4

Cross Section Labels Are Pertinent Only To The Roadway Associated To The Alignment In Focus. For Labels On Other Roadway See The Appropriate Cross Section Sheet.



APPROVED FOR CONSTRUCTION

PROJECT MANAGER VDOT - Bimbal Stab PE (703) 259-2362
SURVEYED BY DATE BDA - Nicholas Kougoulis LS (703) 334-0837, 12/2021
DESIGN BY BDA - Darrell Eischer BE (703) 334-0823, Dawbercy - Ron Jakominich PE (703) 849-0651
SUBSURFACE UTILITY BY DATE Accurmark - Michael Taylor LS (703) 635-3060, 12/2021

CROSS SECTIONS

SCALE 1 IN. = 10 FT

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

REVIS	STATE	ROUTE	STATE	PROJECT	SHEET NO.
	VA.	495		0495-029-419	X359 AREA 4

Cross Section Labels Are Pertinent Only To The Roadway Associated To The Alignment In Focus. For Labels On Other Roadway See The Appropriate Cross Section Sheet.

End Retaining Wall 36 Sta. 22+38.63



APPROVED FOR CONSTRUCTION

PROJECT MANAGER VDOT - Bimbal Stab PE (703) 259-2362
SURVEYED BY DATE BDA - Nicholas Kougoulis LS (703) 334-0837, 12/2021
DESIGN BY BDA - Darrell Eischer BE (703) 334-0823, Dawbercy - Ron Jakominich PE (703) 849-0651
SUBSURFACE UTILITY BY DATE Accurmark - Michael Taylor LS (703) 635-3060, 12/2021

CROSS SECTIONS

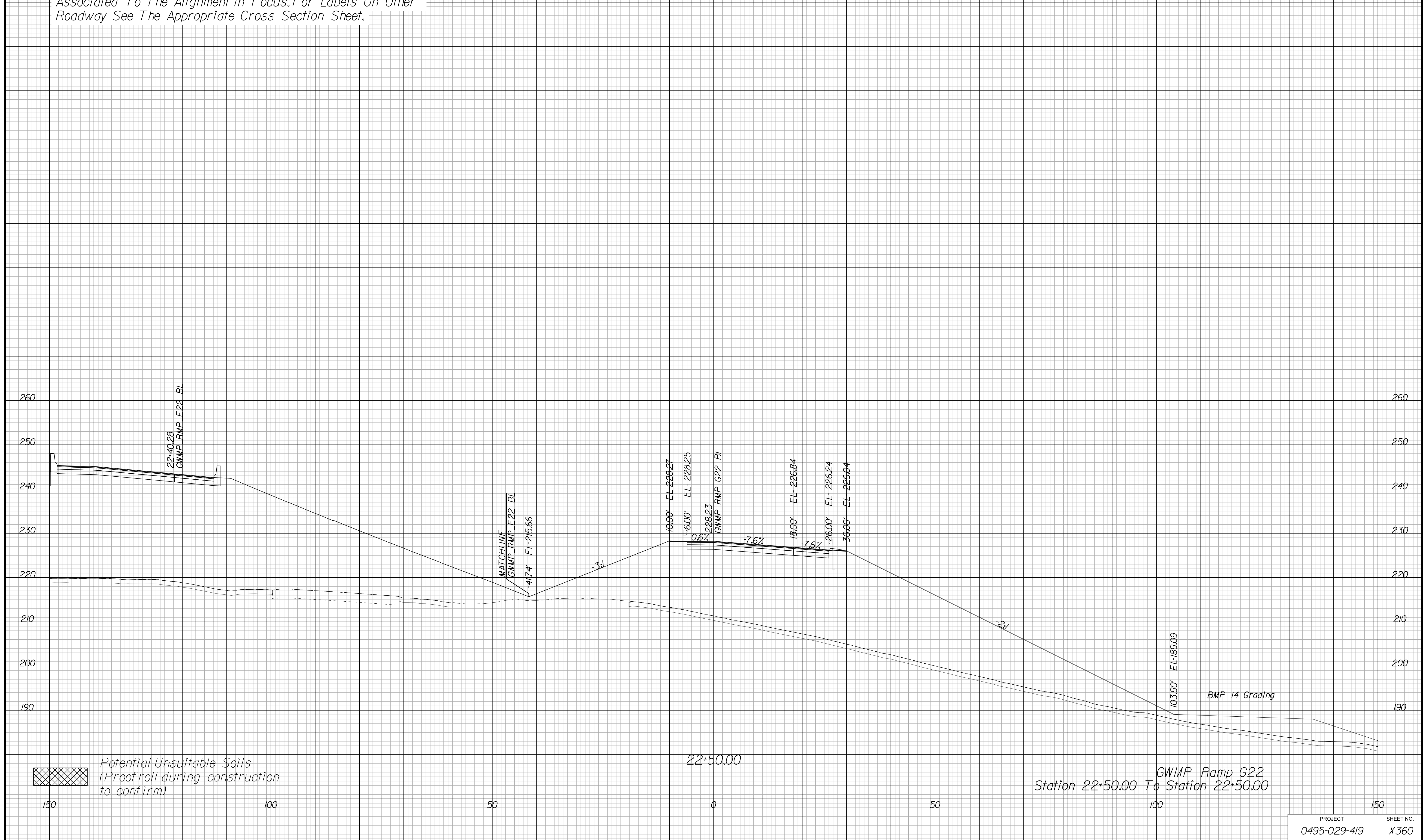
SCALE 1 IN. = 10 FT

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

REVISED	STATE	ROUTE	STATE	PROJECT	SHEET NO.
	VA.	495		0495-029-419	X360 AREA 4

Cross Section Labels Are Pertinent Only To The Roadway Associated To The Alignment In Focus. For Labels On Other Roadway See The Appropriate Cross Section Sheet.

Begin Retaining Wall 36 Sta. 21+71.51



APPROVED FOR CONSTRUCTION

PROJECT MANAGER VDOT - Bimbal Stab PE (703) 259-2362
SURVEYED BY DATE BDA - Nicholas Kougoulis LS (703) 334-0837, 12/2021
DESIGN BY BDA - Darrell Eischer BE (703) 334-0823, Dexberry - Ron Jakominich PE (703) 849-0651
SUBSURFACE UTILITY BY DATE Accurmark - Michael Taylor LS (703) 635-3060, 12/2021

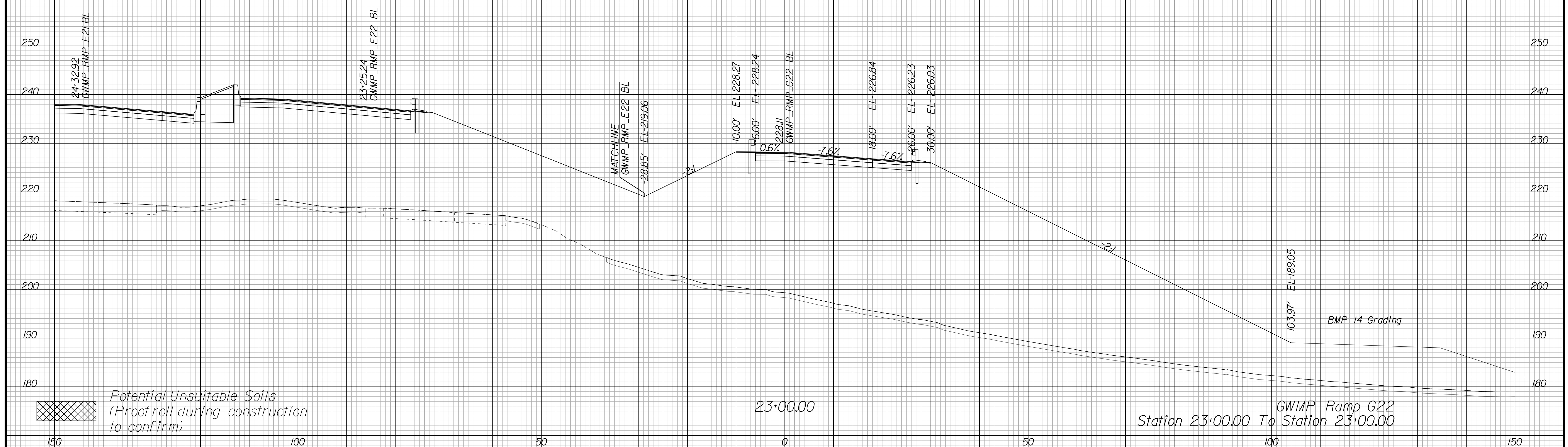
CROSS SECTIONS

SCALE 1 IN. = 10 FT

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

REVISED	STATE	ROUTE	STATE	PROJECT	SHEET NO.
	VA.	495		0495-029-419	X361 AREA 4

Cross Section Labels Are Pertinent Only To The Roadway Associated To The Alignment In Focus. For Labels On Other Roadway See The Appropriate Cross Section Sheet.



PROJECT	SHEET NO.
0495-029-419	X361

APPROVED FOR CONSTRUCTION

PROJECT MANAGER VDOT - Bimal Sab PE (703) 259-2362
SURVEYED BY, DATE BDA - Nicholas Kougoulis LS (703) 334-0837, 12/2021
DESIGN BY BDA - Darrell Eischer BE (703) 334-0823, Dexberry - Ron Jakominich PE (703) 849-0651
SUBSURFACE UTILITY BY, DATE Accurmark - Michael Taylor LS (703) 635-3060, 12/2021

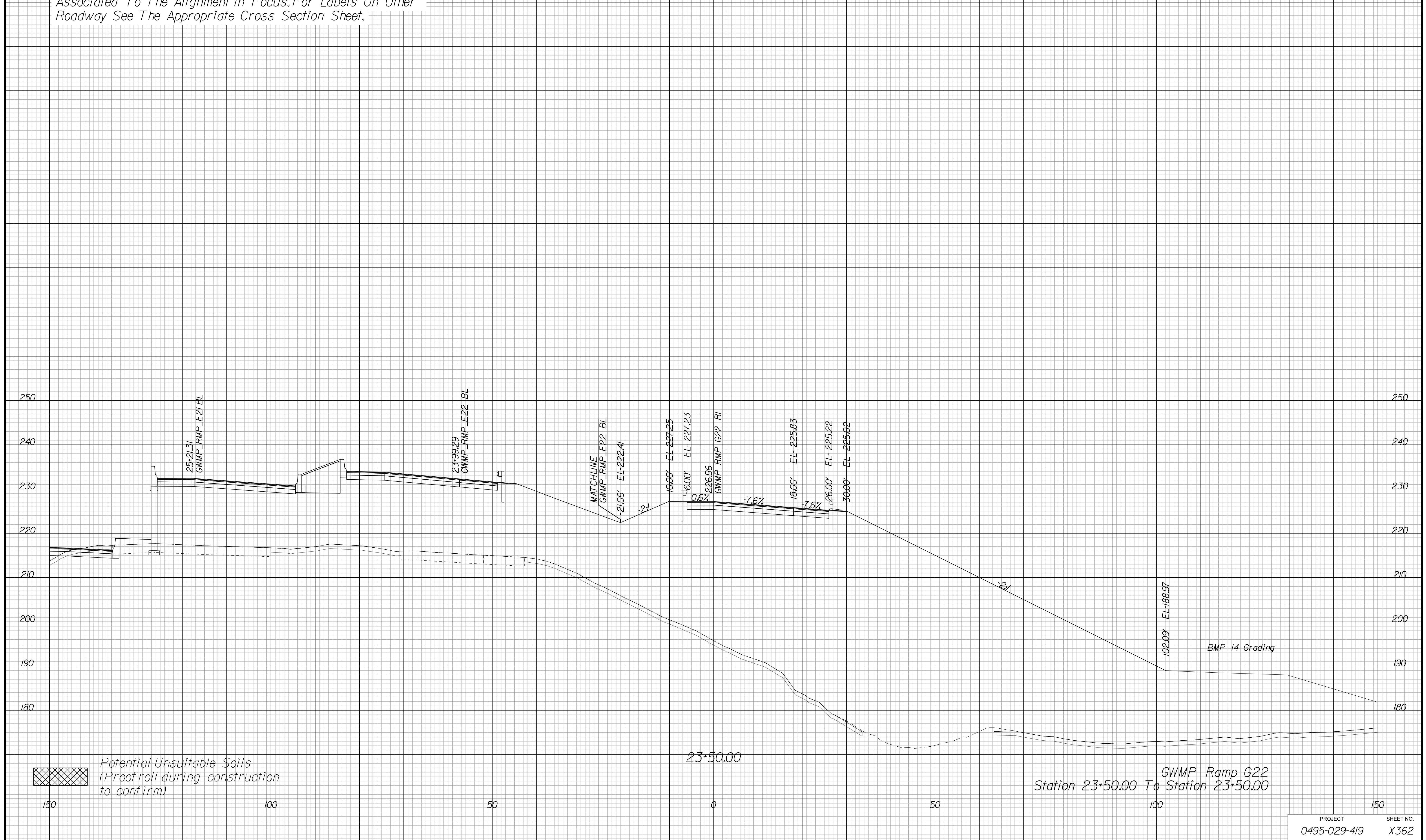
CROSS SECTIONS

SCALE 1 IN. = 10 FT

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

REVISED	STATE	ROUTE	STATE PROJECT	SHEET NO.
	VA.	495	0495-029-419	X362 AREA 4

Cross Section Labels Are Pertinent Only To The Roadway Associated To The Alignment In Focus. For Labels On Other Roadway See The Appropriate Cross Section Sheet.



APPROVED FOR CONSTRUCTION

PROJECT MANAGER VDOT - Bipal Stab PE (703) 259-2362
SURVEYED BY DATE BDA - Nicholas Kougoulis LS (703) 334-0837, 12/2021
DESIGN BY BDA - Darrell Eischer BE (703) 334-0823, Dexberry - Ron Jakominich PE (703) 849-0651
SUBSURFACE UTILITY BY DATE Accurmark - Michael Taylor LS (703) 635-3060, 12/2021

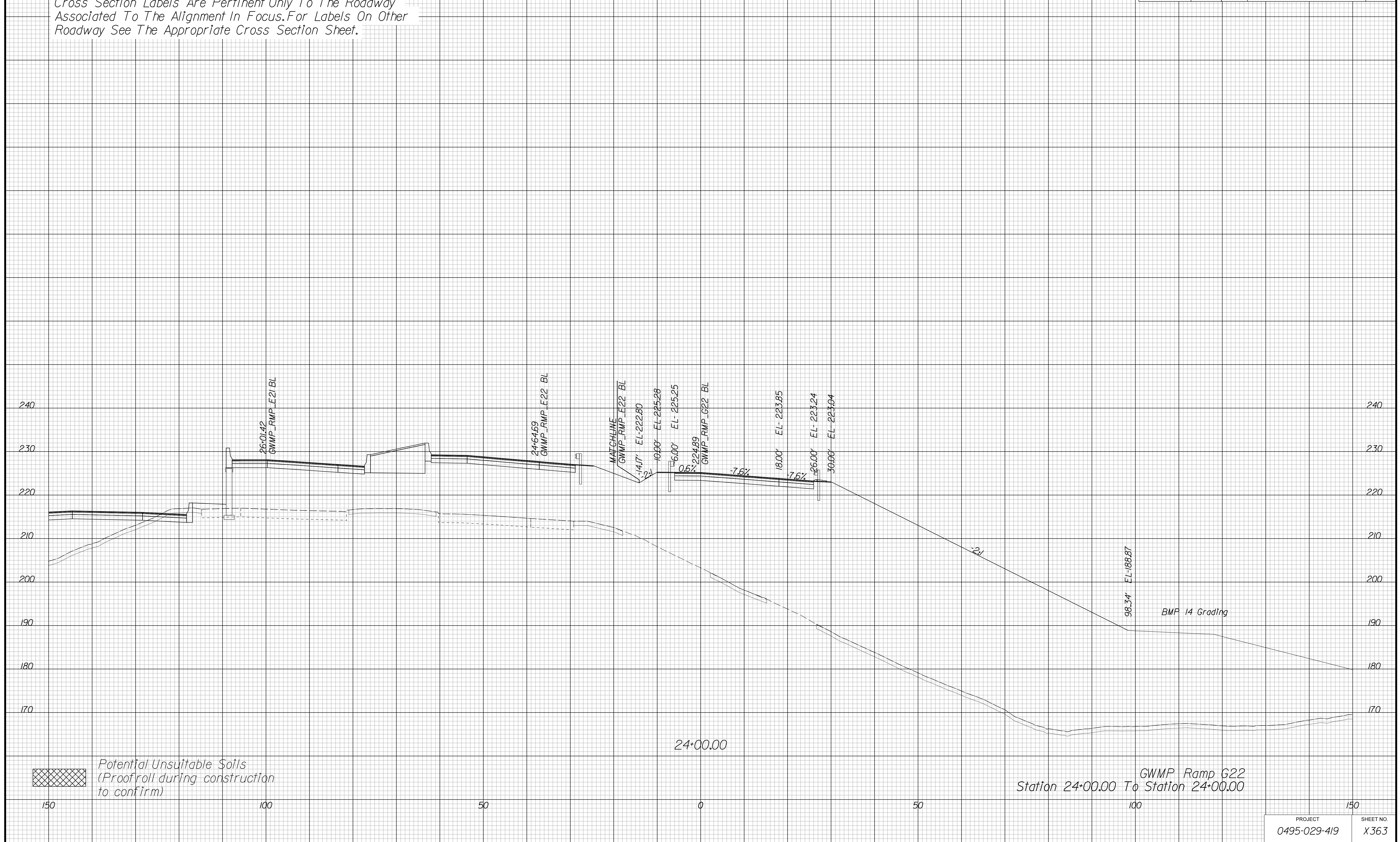
CROSS SECTIONS

SCALE 1 IN. = 10 FT

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

REVISED	STATE	ROUTE	STATE	PROJECT	SHEET NO.
	VA.	495		0495-029-419	X363 AREA 4

Cross Section Labels Are Pertinent Only To The Roadway Associated To The Alignment In Focus. For Labels On Other Roadway See The Appropriate Cross Section Sheet.



APPROVED FOR CONSTRUCTION

PROJECT MANAGER VDOT - Bipal Stab PE (703) 259-2362
SURVEYED BY, DATE BDA - Nicholas Kougioulis LS (703) 334-0837, 12/2021
DESIGN BY BDA - Darrell Eischer BE (703) 334-0823, Dewberry - Ron Jakominich PE (703) 849-0651
SUBSURFACE UTILITY BY, DATE Accurmark - Michael Taylor LS (703) 635-3060, 12/2021

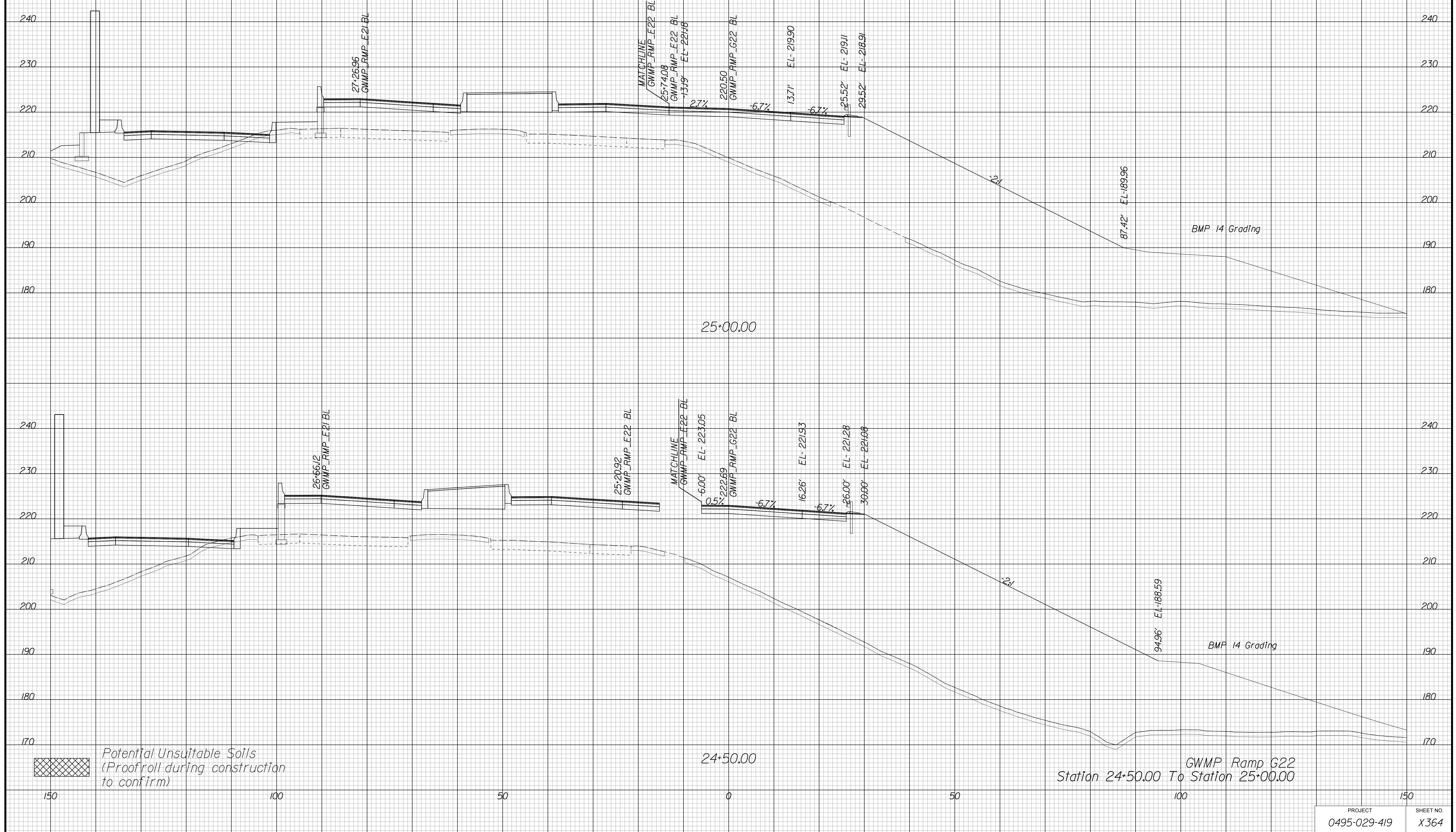
CROSS SECTIONS

SCALE 1 IN. = 10 FT

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

REVISED	STATE	ROUTE	STATE	PROJECT	SHEET NO.
	VA.	495		0495-029-419	X364 AREA 4

Cross Section Labels Are Pertinent Only To The Roadway Associated To The Alignment In Focus. For Labels On Other Roadway See The Appropriate Cross Section Sheet.



APPROVED FOR CONSTRUCTION

PROJECT MANAGER VDOT - Bimbal Stab PE (703) 259-2362
SURVEYED BY, DATE BDA - Nicholas Kougoulis LS (703) 334-0837, 12/2021
DESIGN BY BDA - Darrell Eischer BE (703) 334-0823, Daxbery - Ron Jakominich PE (703) 849-0651
SUBSURFACE UTILITY BY, DATE Accurmark - Michael Taylor LS (703) 635-3060, 12/2021

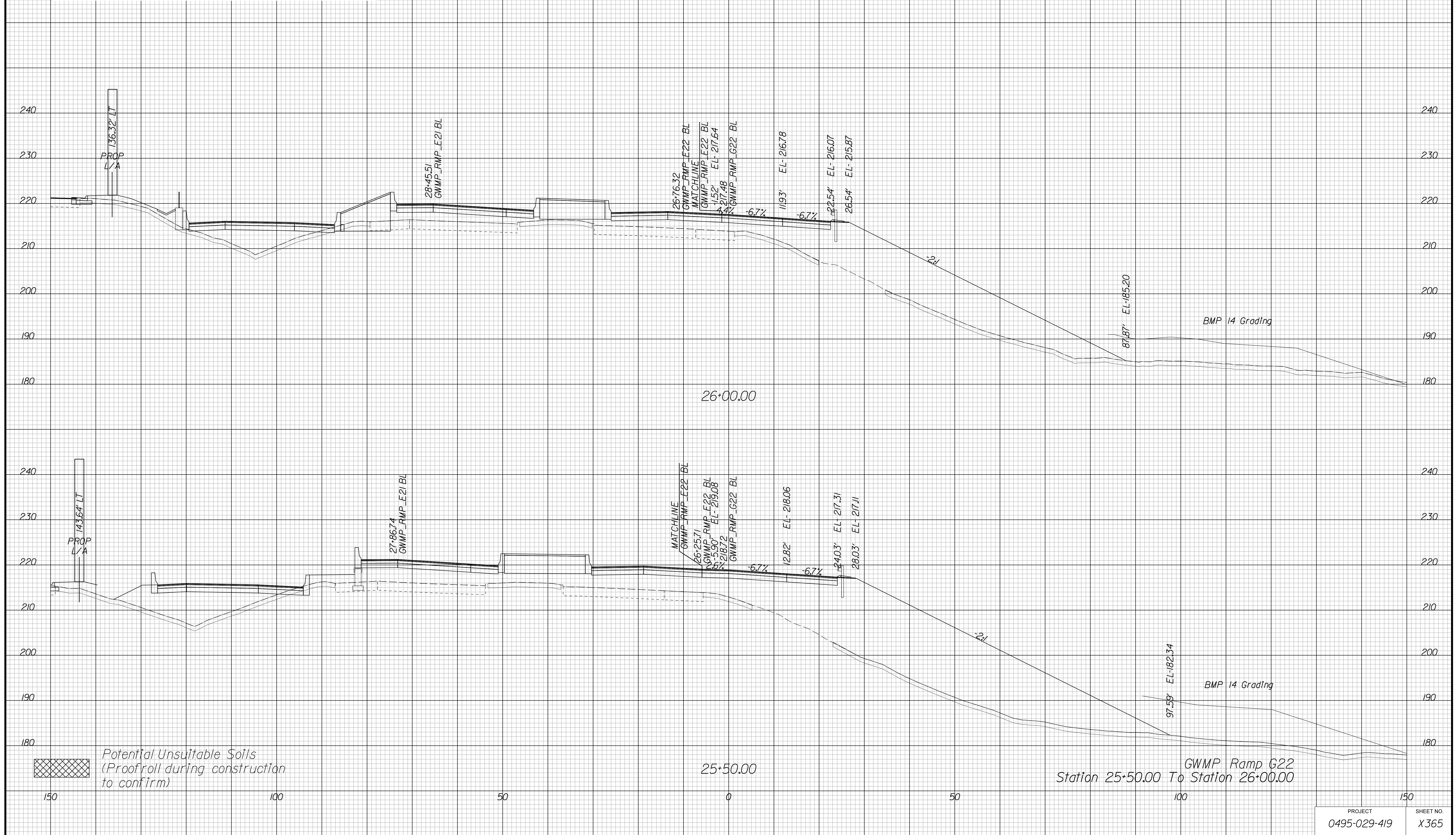
CROSS SECTIONS

SCALE 1 IN. = 10 FT

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

REVISED	STATE	ROUTE	STATE	PROJECT	SHEET NO.
	VA.	495		0495-029-419	X365 AREA 4

Cross Section Labels Are Pertinent Only To The Roadway Associated To The Alignment In Focus. For Labels On Other Roadway See The Appropriate Cross Section Sheet.



APPROVED FOR CONSTRUCTION

PROJECT	SHEET NO.
0495-029-419	X365

PROJECT MANAGER VDOT - Bipal Stab PE (703) 259-2362
SURVEYED BY, DATE BDA - Nicholas Kougoulis LS (703) 334-0837, 12/2021
DESIGN BY BDA - Darrell Eischer BE (703) 334-0823, Dewberry - Ron Jakominich PE (703) 849-0651
SUBSURFACE UTILITY BY, DATE Accurmark - Michael Taylor LS (703) 635-3060, 12/2021

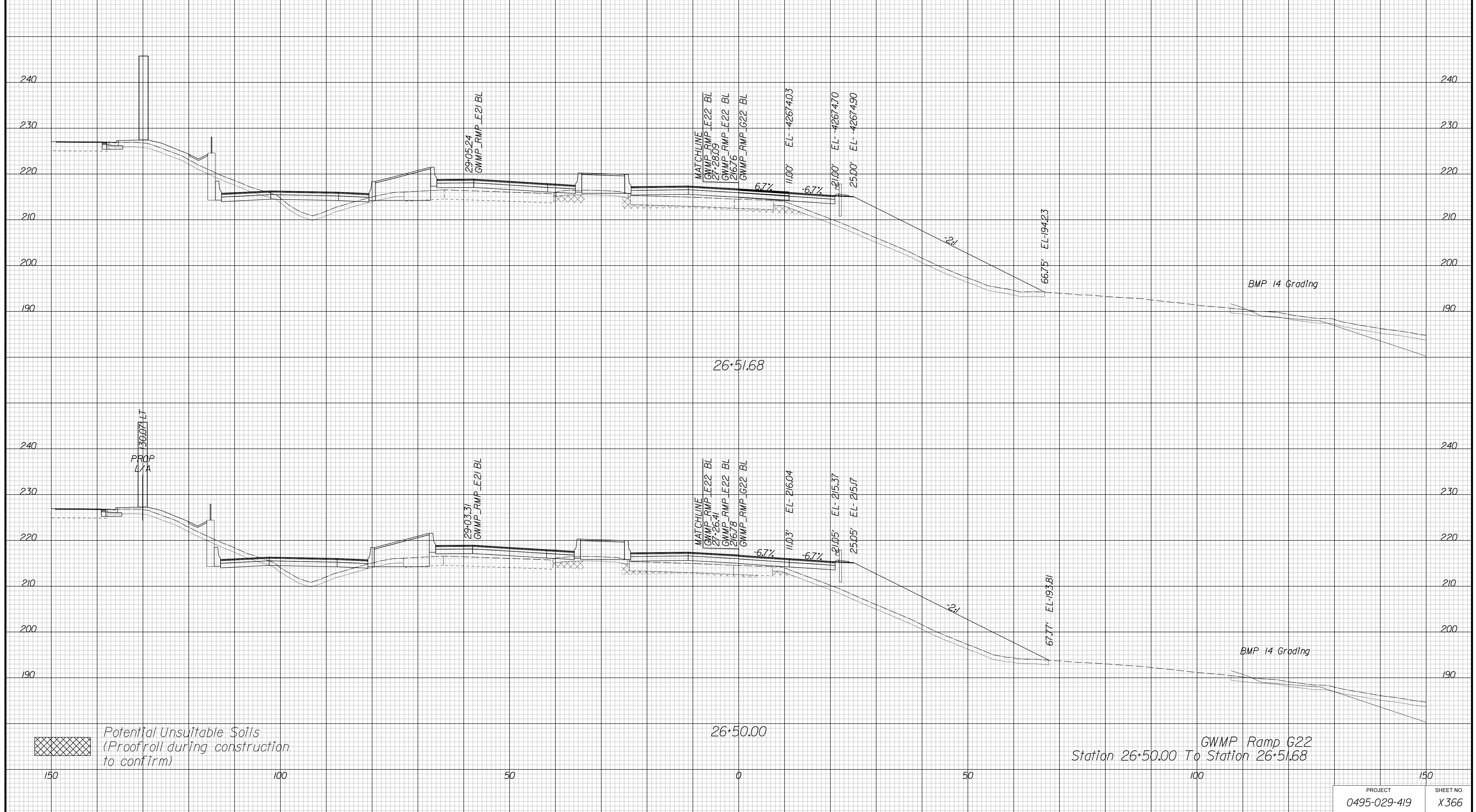
CROSS SECTIONS

SCALE 1 IN. = 10 FT

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

REVISED	STATE	ROUTE	STATE	PROJECT	SHEET NO.
	VA.	495		0495-029-419	X366 AREA 4

Cross Section Labels Are Pertinent Only To The Roadway Associated To The Alignment In Focus. For Labels On Other Roadway See The Appropriate Cross Section Sheet.



GWMP Ramp G22
Station 26+50.00 To Station 26+51.68

PROJECT	SHEET NO.
0495-029-419	X366

APPROVED FOR CONSTRUCTION

PROJECT MANAGER VDOT - Bimal Saha PE (703) 259-2362
SURVEYED BY DATE BDA - Nicholas Kougoulis LS (703) 334-0837, 12/2021
DESIGN BY BDA - Darrell Eischer BE (703) 334-0823, Dawbercy - Ron Jakominich PE (703) 849-0651
SUBSURFACE UTILITY BY DATE Accurmark - Michael Taylor LS (703) 635-3060, 12/2021

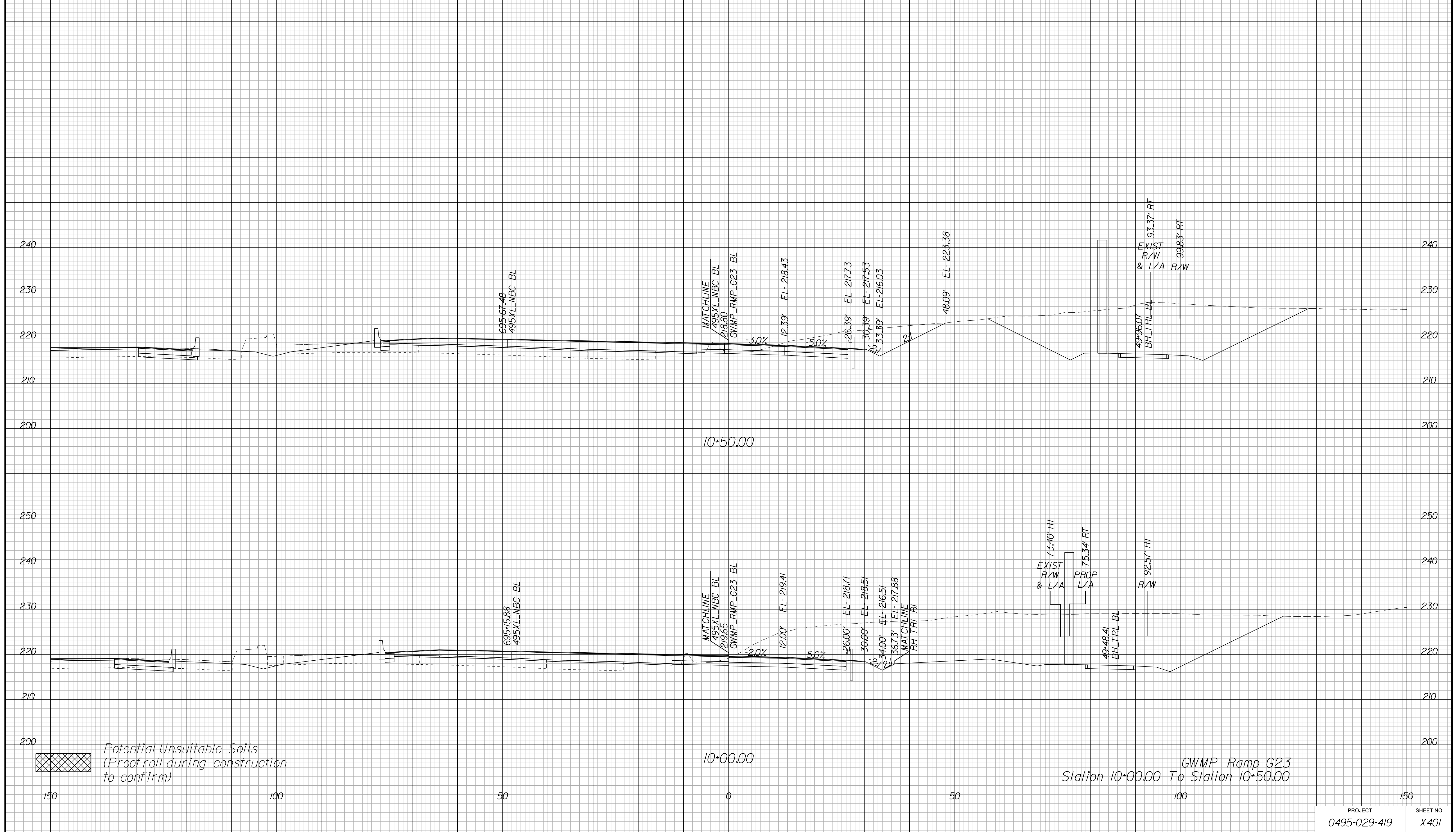
CROSS SECTIONS

SCALE 1 IN. = 10 FT

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

REVISED	STATE	ROUTE	STATE PROJECT	SHEET NO.
	VA.	495	0495-029-419	X401 AREA 4

Cross Section Labels Are Pertinent Only To The Roadway Associated To The Alignment In Focus. For Labels On Other Roadway See The Appropriate Cross Section Sheet.



PROJECT	SHEET NO.
0495-029-419	X401

APPROVED FOR CONSTRUCTION

PROJECT MANAGER VDOT - Bimal Sab PE (703) 259-2362
SURVEYED BY DATE BDA - Nicholas Kougoulis LS (703) 334-0837, 12/2021
DESIGN BY BDA - Darrell Eischer BE (703) 334-0823, Dawbercy - Ron Jakominich PE (703) 849-0651
SUBSURFACE UTILITY BY DATE Accurmark - Michael Taylor LS (703) 635-3060, 12/2021

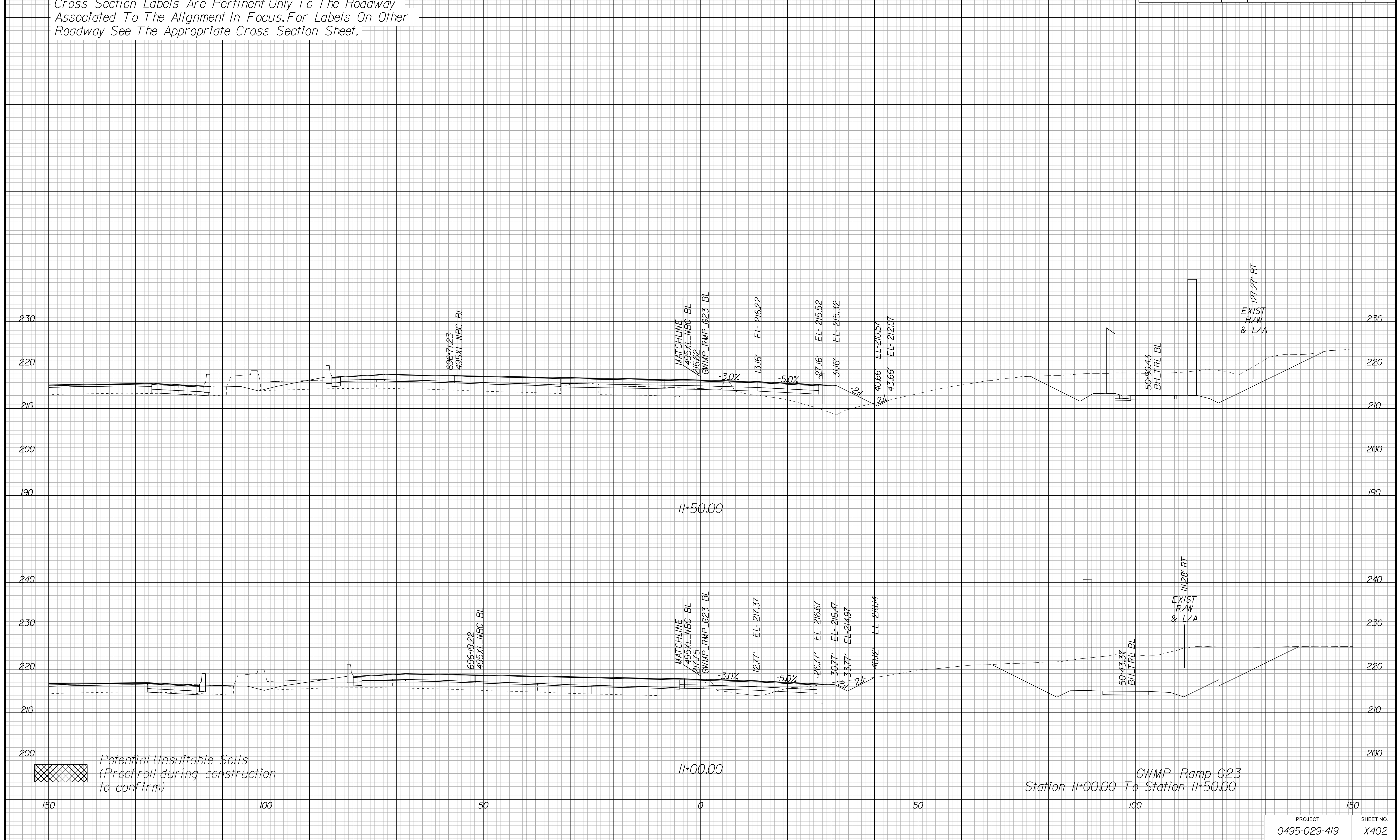
CROSS SECTIONS

SCALE 1 IN. = 10 FT

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

REVISED	STATE	ROUTE	STATE	PROJECT	SHEET NO.
	VA.	495		0495-029-419	X402 AREA 4

Cross Section Labels Are Pertinent Only To The Roadway Associated To The Alignment In Focus. For Labels On Other Roadway See The Appropriate Cross Section Sheet.



PROJECT	SHEET NO.
0495-029-419	X402

APPROVED FOR CONSTRUCTION

PROJECT MANAGER VDOT - Bimbal Stab PE (703) 259-2362
SURVEYED BY DATE BDA - Nicholas Kougoulis LS (703) 334-0837, 12/2021
DESIGN BY BDA - Darrell Eischer BE (703) 334-0823, Dawbergy - Ron Jakominich PE (703) 849-0651
SUBSURFACE UTILITY BY DATE Accurmark - Michael Taylor LS (703) 635-3060, 12/2021

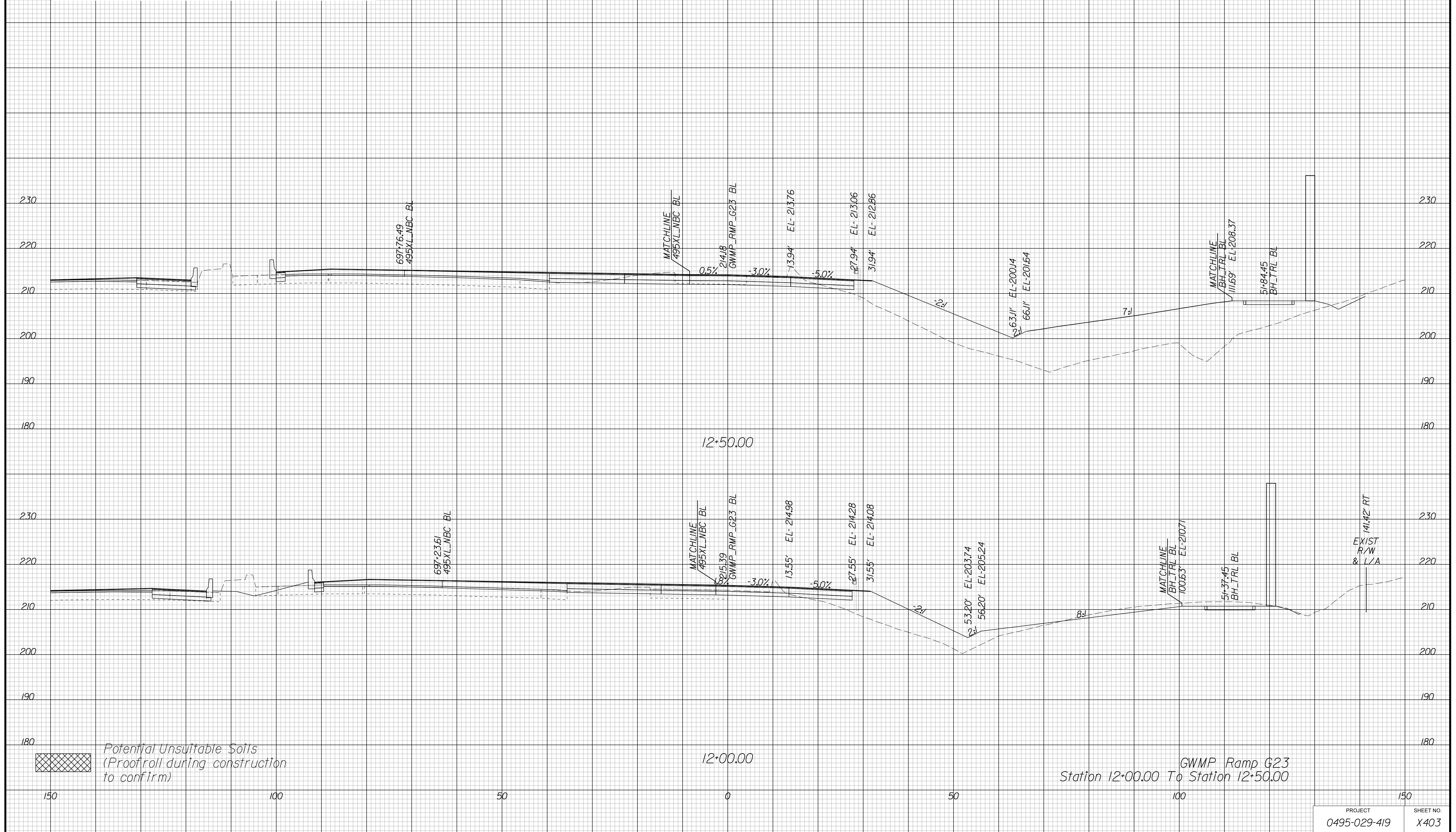
CROSS SECTIONS

SCALE 1 IN. = 10 FT

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

REVISED	STATE	ROUTE	STATE	PROJECT	SHEET NO.
	VA.	495		0495-029-419	X403 AREA 4

Cross Section Labels Are Pertinent Only To The Roadway Associated To The Alignment In Focus. For Labels On Other Roadway See The Appropriate Cross Section Sheet.



APPROVED FOR CONSTRUCTION

PROJECT MANAGER VDOT - Bimbal Stab PE (703) 259-2362
SURVEYED BY DATE BDA - Nicholas Kougoulis LS (703) 334-0837, 12/2021
DESIGN BY BDA - Darrell Eischer BE (703) 334-0823, Dexberry - Ron Jakominich PE (703) 849-0651
SUBSURFACE UTILITY BY DATE Accurmark - Michael Taylor LS (703) 635-3060, 12/2021

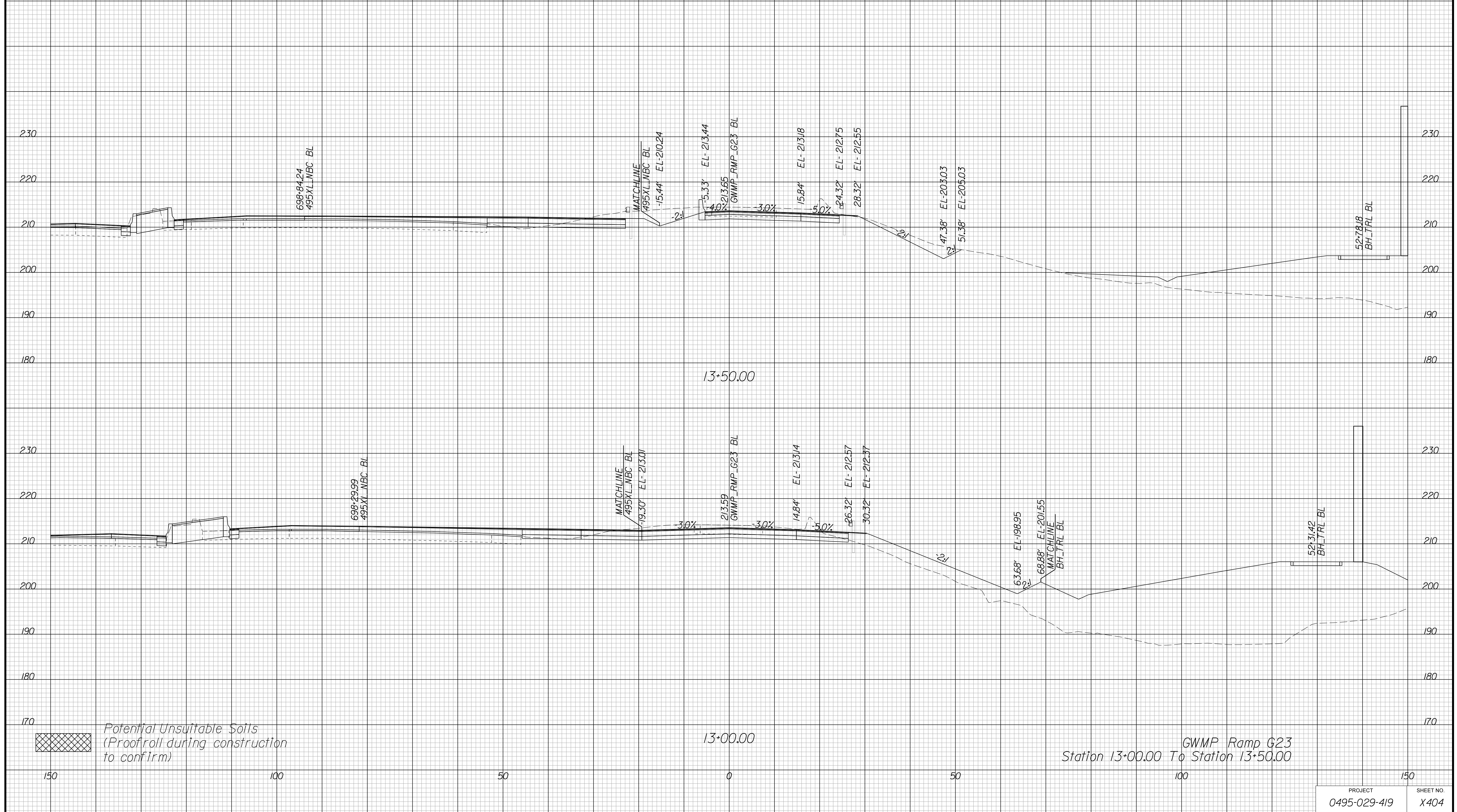
CROSS SECTIONS

SCALE 1 IN. = 10 FT

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

REVISED	STATE	ROUTE	STATE	PROJECT	SHEET NO.
	VA.	495		0495-029-419	X404 AREA 4

Cross Section Labels Are Pertinent Only To The Roadway Associated To The Alignment In Focus. For Labels On Other Roadway See The Appropriate Cross Section Sheet.



APPROVED FOR CONSTRUCTION

PROJECT MANAGER VDOT - Bimbal Stab PE (703) 259-2362
SURVEYED BY DATE BDA - Nicholas Kougoulis LS (703) 334-0837, 12/2021
DESIGN BY BDA - Darrell Elischer BE (703) 334-0823, Dexberry - Ron Jakominich PE (703) 849-0651
SUBSURFACE UTILITY BY DATE Accurmark - Michael Taylor LS (703) 635-3060, 12/2021

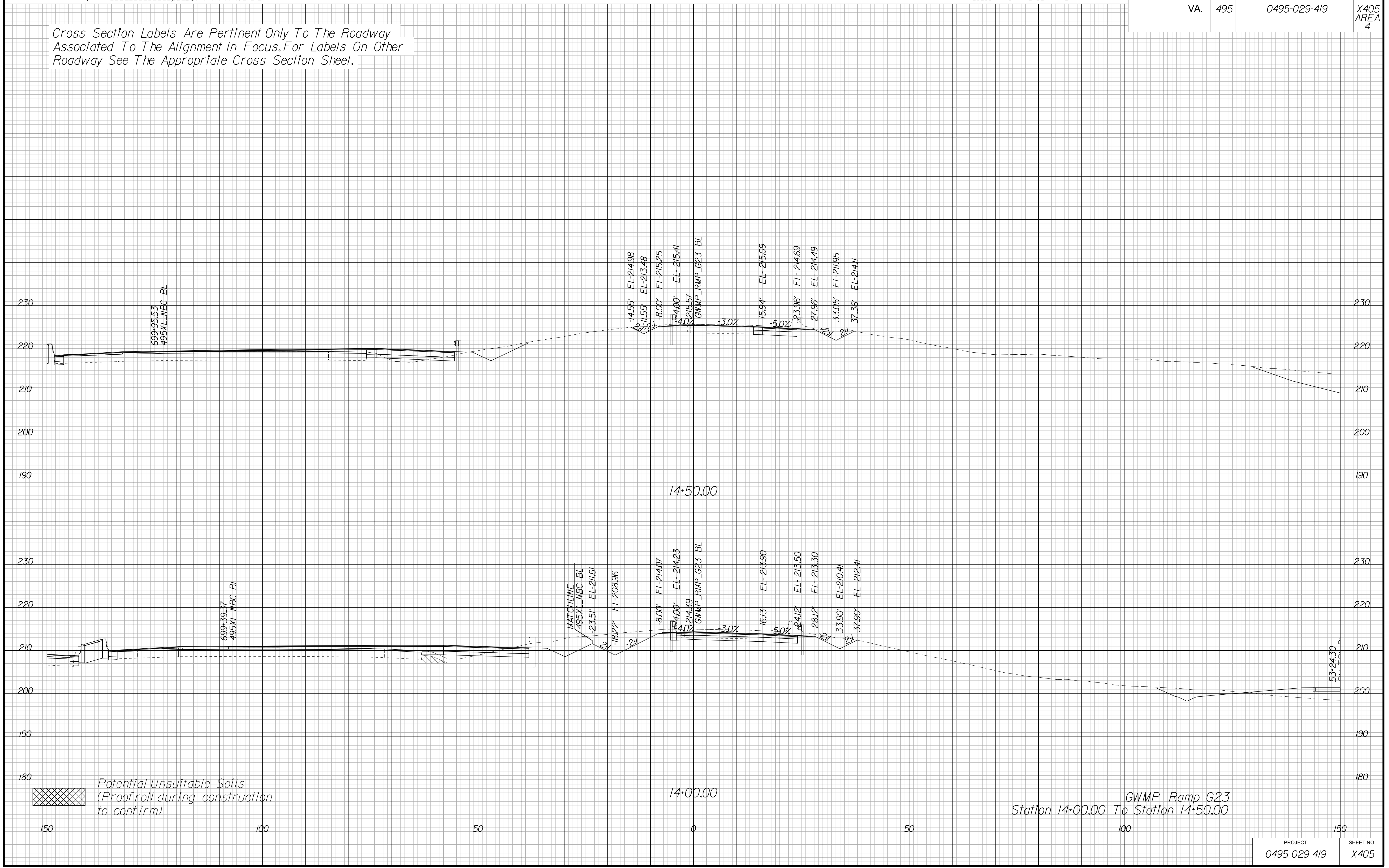
CROSS SECTIONS

SCALE 1 IN. = 10 FT

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

REVISED	STATE	ROUTE	STATE	PROJECT	SHEET NO.
	VA.	495		0495-029-419	X405 AREA 4

Cross Section Labels Are Pertinent Only To The Roadway Associated To The Alignment In Focus. For Labels On Other Roadway See The Appropriate Cross Section Sheet.



APPROVED FOR CONSTRUCTION

PROJECT MANAGER VDOT - Bipal Stab PE (703) 259-2362
SURVEYED BY, DATE BDA - Nicholas Kougoulis LS (703) 334-0837, 12/2021
DESIGN BY BDA - Darrell Eischer BE (703) 334-0823, Dexberry - Ron Jakominich PE (703) 849-0651
SUBSURFACE UTILITY BY, DATE Accurmark - Michael Taylor LS (703) 635-3060, 12/2021

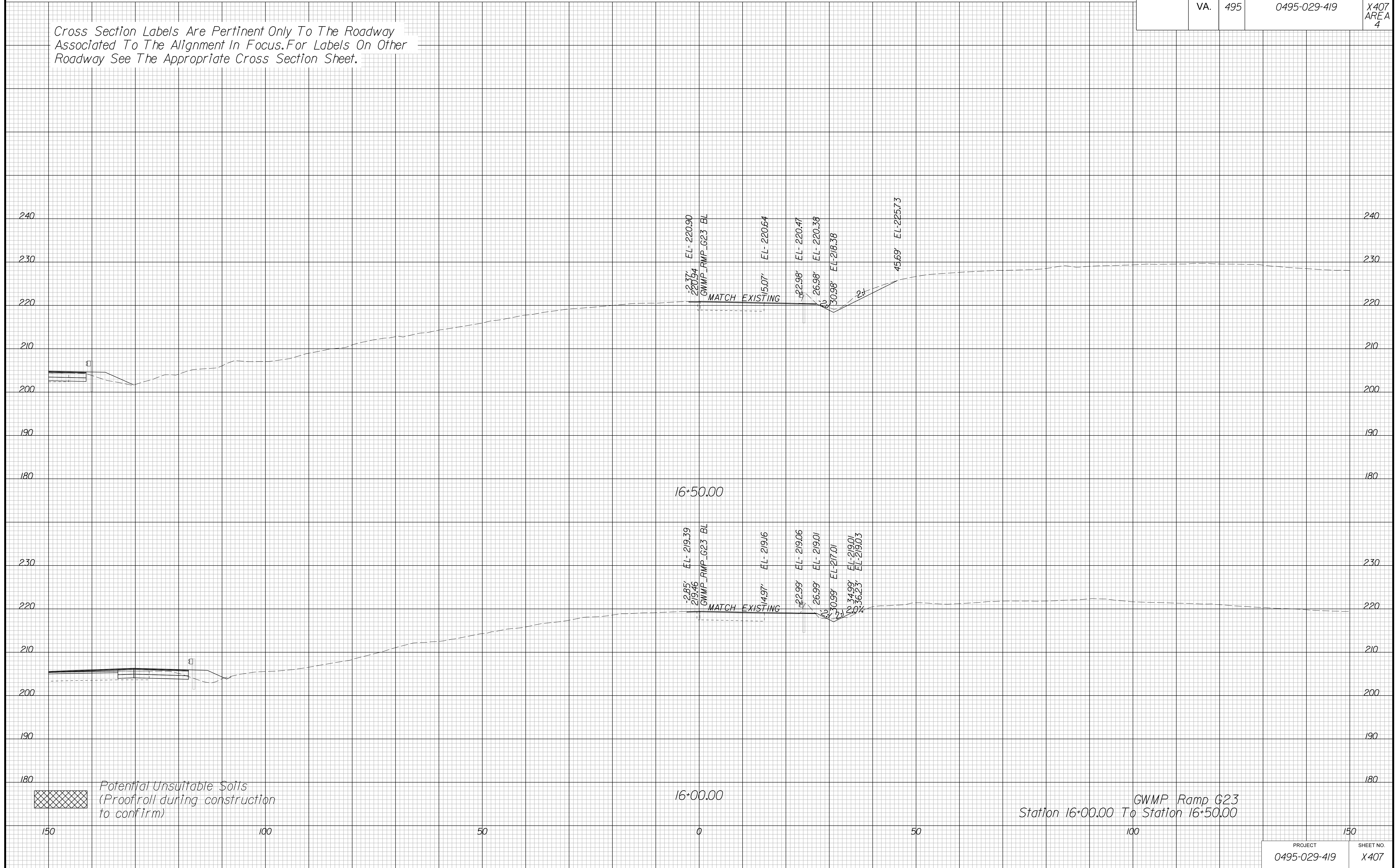
CROSS SECTIONS

SCALE 1 IN. = 10 FT

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

REVISED	STATE	ROUTE	STATE	PROJECT	SHEET NO.
	VA.	495		0495-029-419	X407 AREA 4

Cross Section Labels Are Pertinent Only To The Roadway Associated To The Alignment In Focus. For Labels On Other Roadway See The Appropriate Cross Section Sheet.



APPROVED FOR CONSTRUCTION

PROJECT	SHEET NO.
0495-029-419	X407

PROJECT MANAGER VDOT - Bimbal Stab PE (703) 259-2362
SURVEYED BY DATE BDA - Nicholas Kougoulis LS (703) 334-0837, 12/2021
DESIGN BY BDA - Darrell Eischer BE (703) 334-0823, Dewberry - Ron Jakominich PE (703) 849-0651
SUBSURFACE UTILITY BY DATE Accurmark - Michael Taylor LS (703) 635-3060, 12/2021

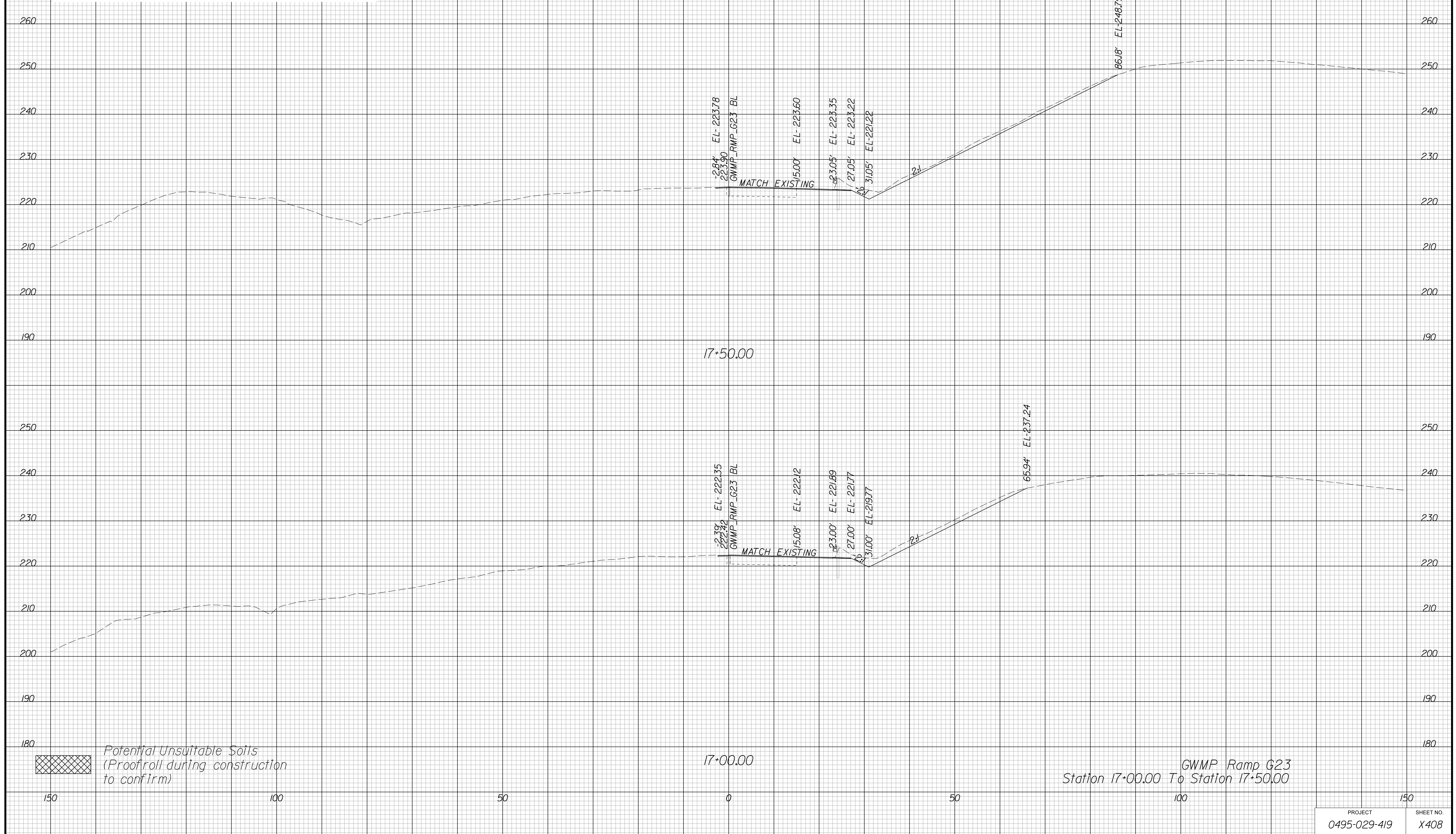
CROSS SECTIONS

SCALE 1 IN. = 10 FT

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

REVISED	STATE	ROUTE	STATE	PROJECT	SHEET NO.
	VA.	495		0495-029-419	X408 AREA 4

Cross Section Labels Are Pertinent Only To The Roadway Associated To The Alignment In Focus. For Labels On Other Roadway See The Appropriate Cross Section Sheet.



APPROVED FOR CONSTRUCTION

PROJECT MANAGER VDOT - Bipal Stab PE (703) 259-2362
SURVEYED BY, DATE BDA - Nicholas Kougoulis LS (703) 334-0837, 12/2021
DESIGN BY BDA - Darrell Eischer BE (703) 334-0823, Dewberry - Ron Jakominich PE (703) 849-0651
SUBSURFACE UTILITY BY, DATE Accurmark - Michael Taylor LS (703) 635-3060, 12/2021

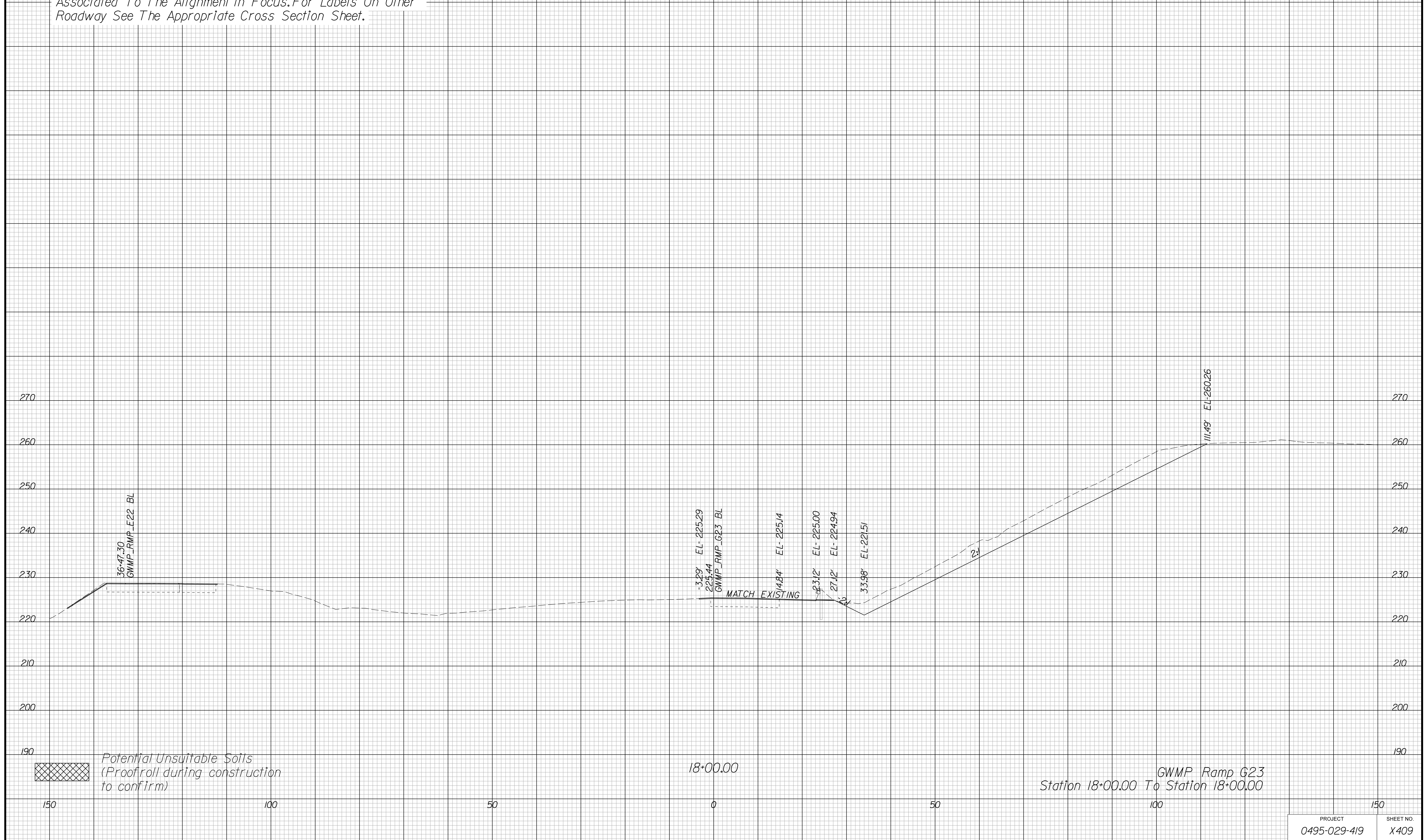
CROSS SECTIONS

SCALE 1 IN. = 10 FT

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

REVISED	STATE	ROUTE	STATE	PROJECT	SHEET NO.
	VA.	495		0495-029-419	X409 AREA 4

Cross Section Labels Are Pertinent Only To The Roadway Associated To The Alignment In Focus. For Labels On Other Roadway See The Appropriate Cross Section Sheet.



PROJECT	SHEET NO.
0495-029-419	X409

APPROVED FOR CONSTRUCTION

PROJECT MANAGER VDOT - Bipal Shah PE (703) 259-2362
SURVEYED BY, DATE BDA - Nicholas Kougoulis LS (703) 334-0837, 12/2021
DESIGN BY BDA - Darrell Eischer BE (703) 334-0823, Dewberry - Ron Jakominich PE (703) 849-0651
SUBSURFACE UTILITY BY, DATE Accurmark - Michael Taylor LS (703) 635-3060, 12/2021

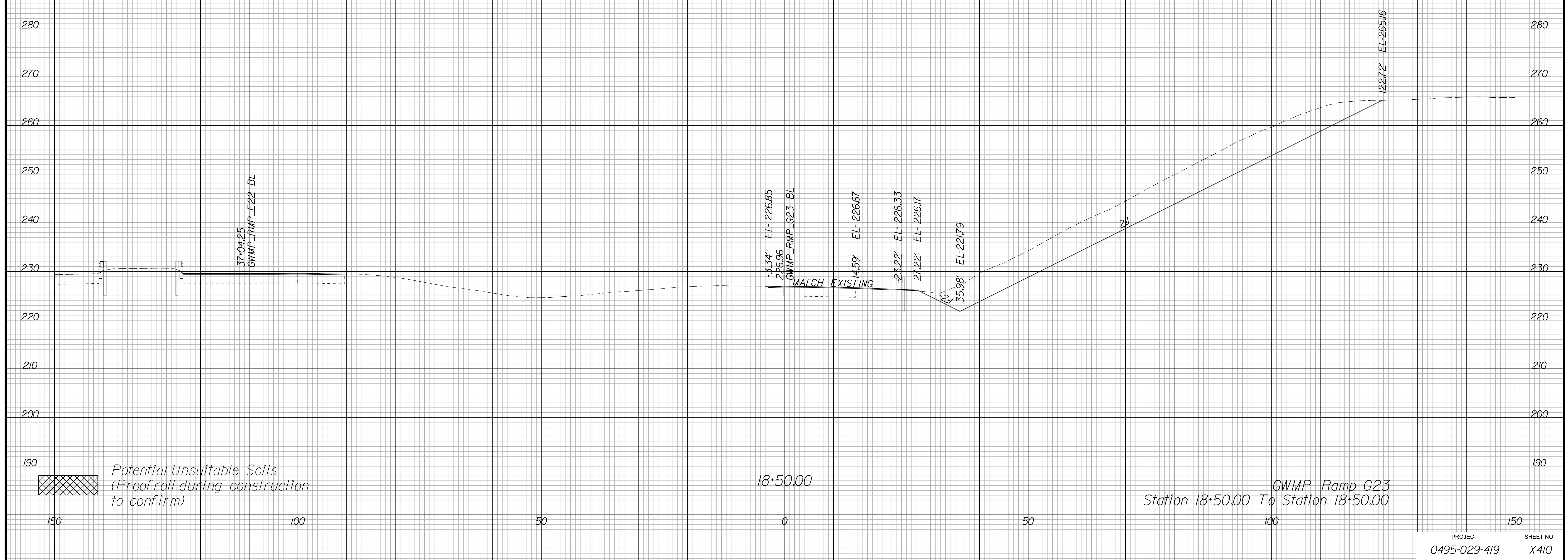
CROSS SECTIONS

SCALE 1 IN. = 10 FT

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

REVISED	STATE	ROUTE	STATE	PROJECT	SHEET NO.
	VA.	495		0495-029-419	X410 AREA 4

Cross Section Labels Are Pertinent Only To The Roadway Associated To The Alignment In Focus. For Labels On Other Roadway See The Appropriate Cross Section Sheet.



APPROVED FOR CONSTRUCTION

PROJECT	SHEET NO.
0495-029-419	X410

PROJECT MANAGER VDOT - Bipal Stab PE (703) 259-2362
SURVEYED BY DATE BDA - Nicholas Kougoulis LS (703) 334-0837, 12/2021
DESIGN BY BDA - Darrell Eischer BE (703) 334-0823, Dawbercy - Ron Jakominich PE (703) 849-0651
SUBSURFACE UTILITY BY DATE Accurmark - Michael Taylor LS (703) 635-3060, 12/2021

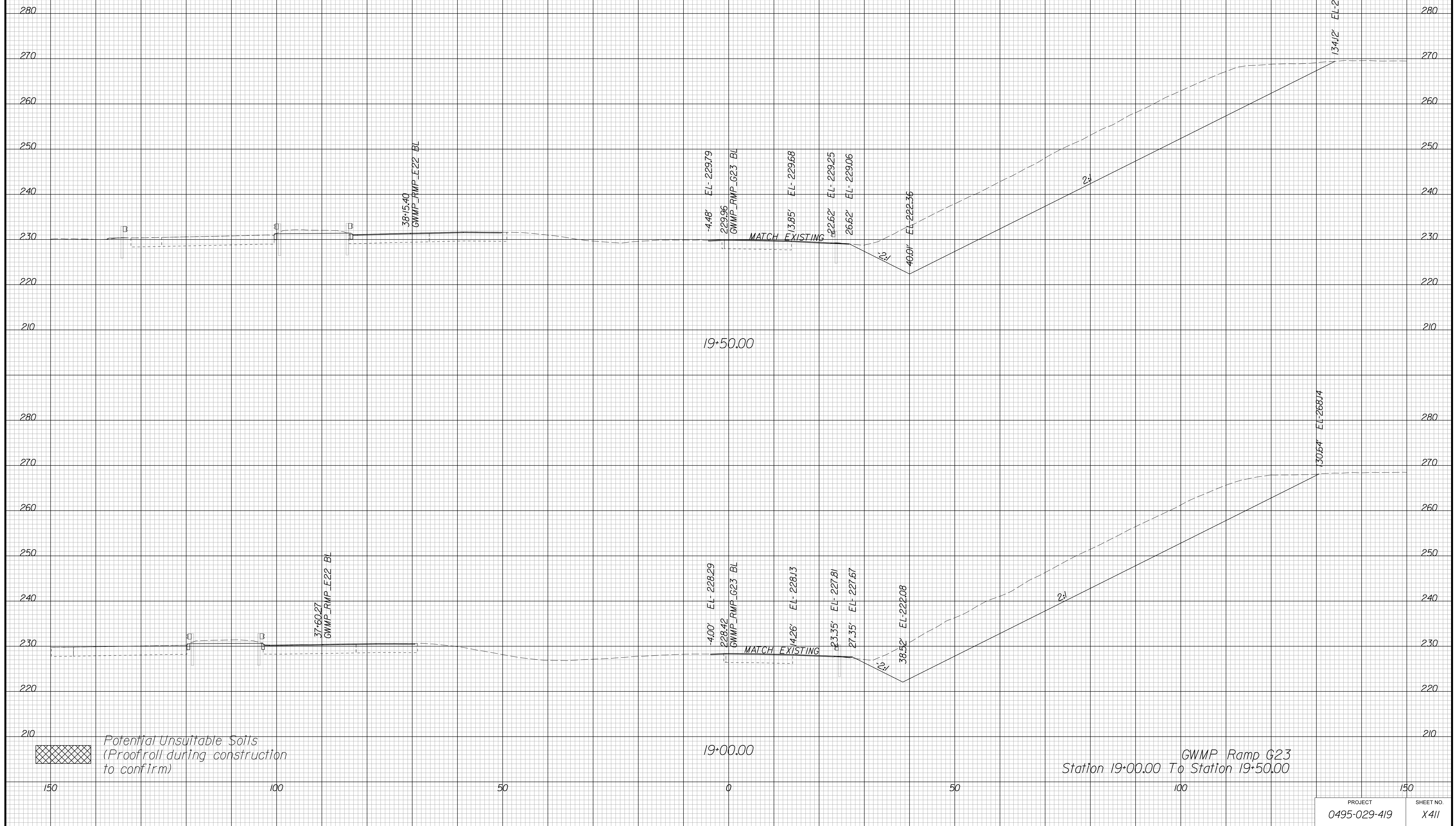
CROSS SECTIONS

SCALE 1 IN. = 10 FT

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

REVISED	STATE	ROUTE	STATE	PROJECT	SHEET NO.
	VA.	495		0495-029-419	X411 AREA 4

Cross Section Labels Are Pertinent Only To The Roadway Associated To The Alignment In Focus. For Labels On Other Roadway See The Appropriate Cross Section Sheet.



APPROVED FOR CONSTRUCTION

PROJECT MANAGER VDOT - Bimbal Stab PE (703) 259-2362
SURVEYED BY, DATE BDA - Nicholas Kougoulis LS (703) 334-0837, 12/2021
DESIGN BY BDA - Darrell Eischer BE (703) 334-0823, Dawbercy - Ron Jakominich PE (703) 849-0651
SUBSURFACE UTILITY BY, DATE Accurmark - Michael Taylor LS (703) 635-3060, 12/2021

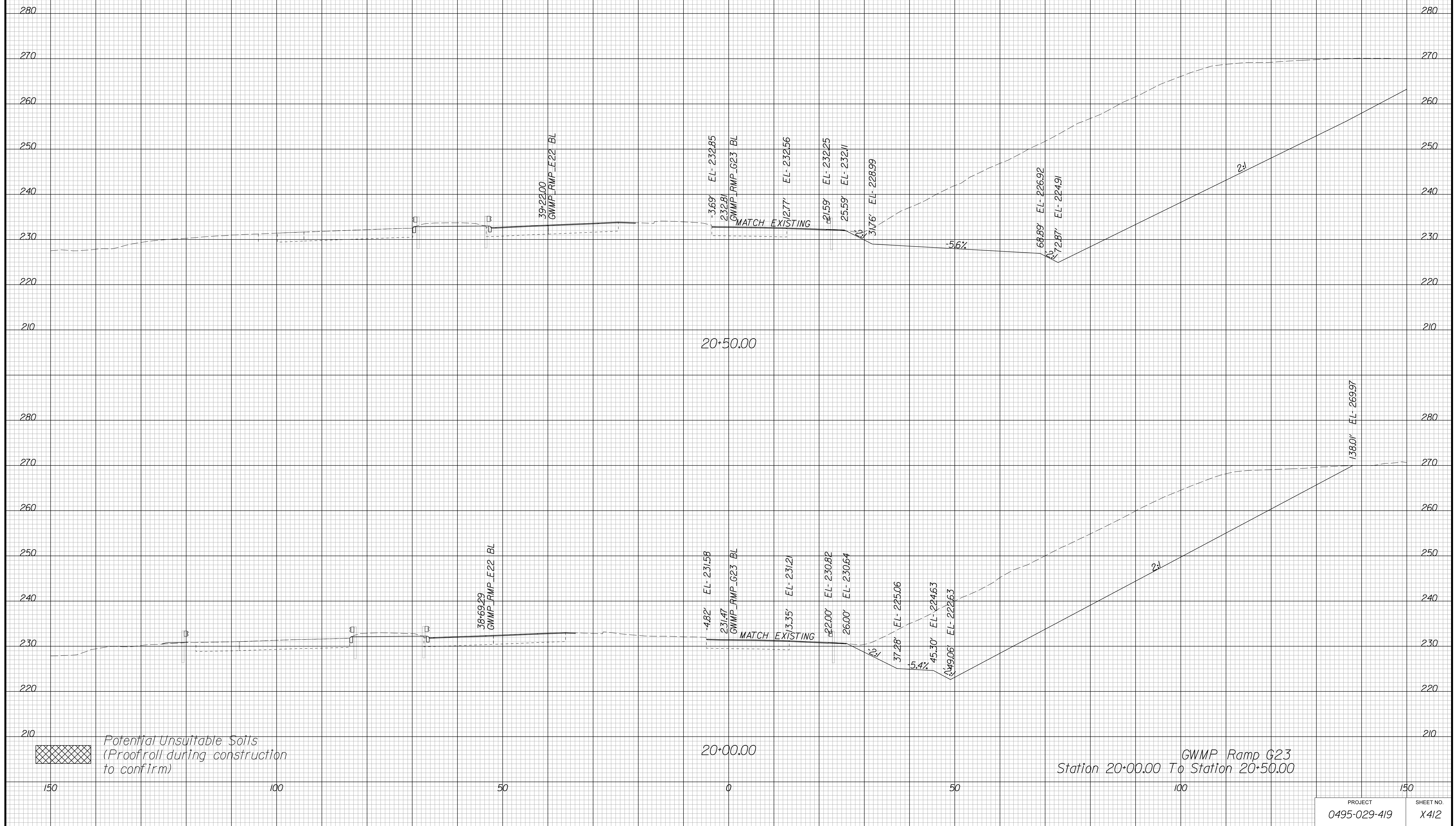
CROSS SECTIONS

SCALE 1 IN. = 10 FT

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

REVISED	STATE	ROUTE	STATE	PROJECT	SHEET NO.
	VA.	495		0495-029-419	X412 AREA 4

Cross Section Labels Are Pertinent Only To The Roadway Associated To The Alignment In Focus. For Labels On Other Roadway See The Appropriate Cross Section Sheet.



APPROVED FOR CONSTRUCTION

PROJECT MANAGER VDOT - Bimbal Stab PE (703) 259-2362
SURVEYED BY, DATE BDA - Nicholas Kougoulis LS (703) 334-0837, 12/2021
DESIGN BY BDA - Darrell Eischer BE (703) 334-0823, Dexberry - Ron Jakominich PE (703) 849-0651
SUBSURFACE UTILITY BY, DATE Accurmark - Michael Taylor LS (703) 635-3060, 12/2021

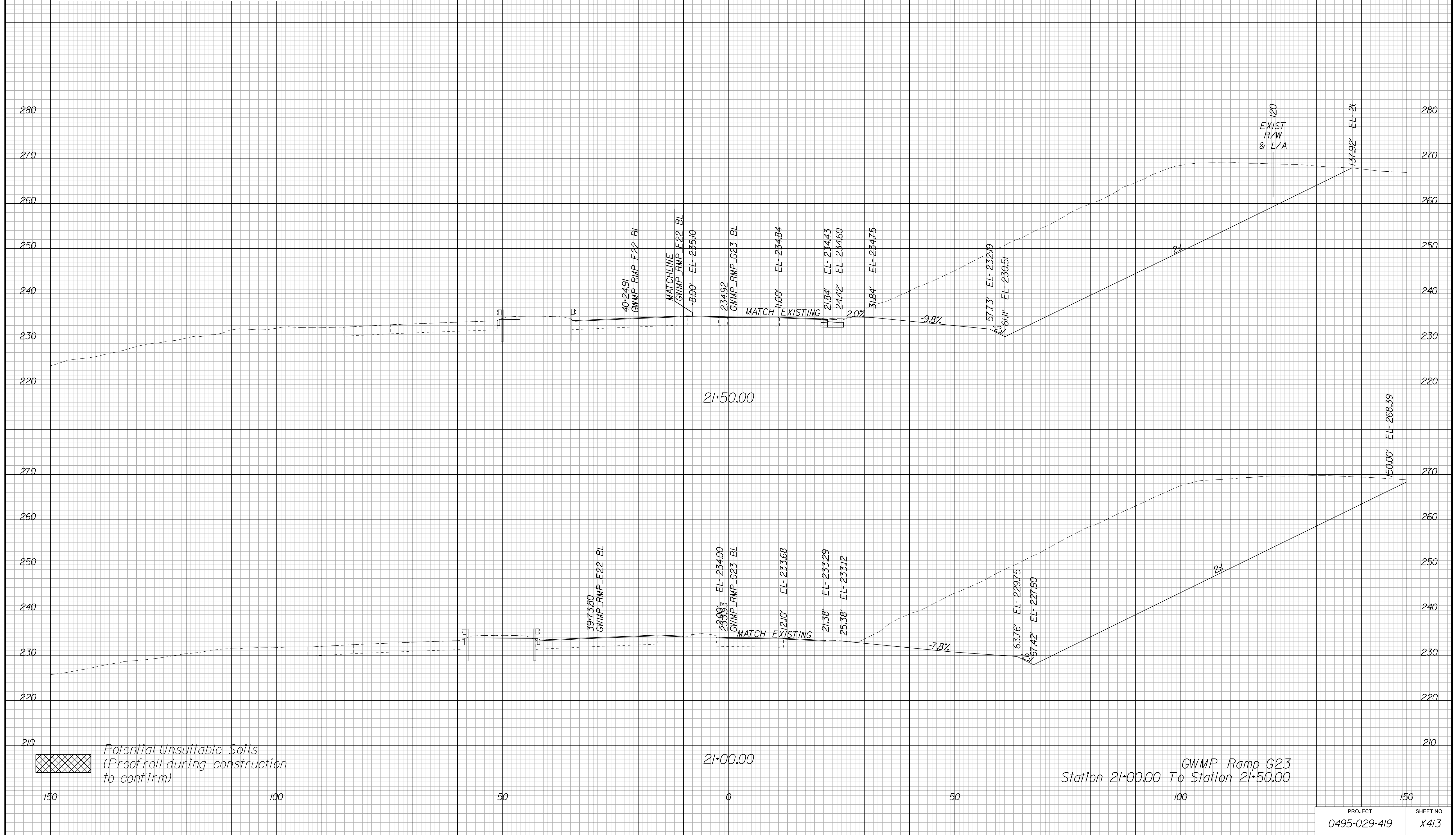
CROSS SECTIONS

SCALE 1 IN. = 10 FT

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

REVISED	STATE	ROUTE	STATE	PROJECT	SHEET NO.
	VA.	495		0495-029-419	X413 AREA 4

Cross Section Labels Are Pertinent Only To The Roadway Associated To The Alignment In Focus. For Labels On Other Roadway See The Appropriate Cross Section Sheet.



APPROVED FOR CONSTRUCTION

PROJECT	SHEET NO.
0495-029-419	X413

PROJECT MANAGER VDOT - Bimbal Stab PE (703) 259-2362
SURVEYED BY, DATE BDA - Nicholas Kougoulis LS (703) 334-0837, 12/2021
DESIGN BY BDA - Darrell Eischer BE (703) 334-0823, Dawbergy - Ron Jakominich PE (703) 849-0651
SUBSURFACE UTILITY BY, DATE Accurmark - Michael Taylor LS (703) 635-3060, 12/2021

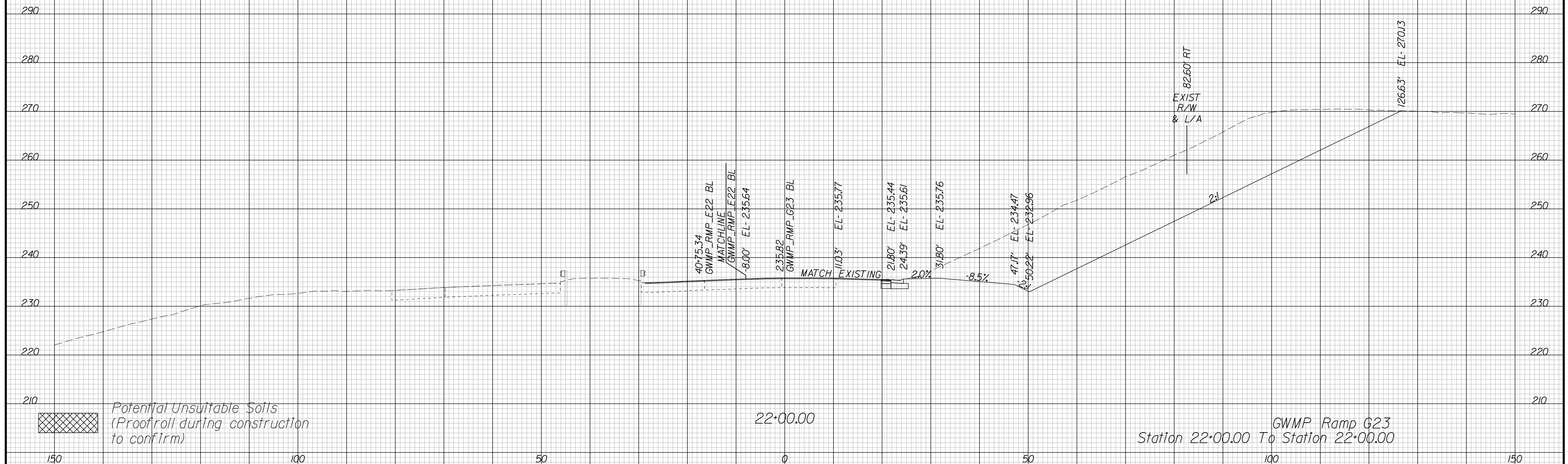
CROSS SECTIONS

SCALE 1 IN. = 10 FT

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

REVISED	STATE	ROUTE	STATE PROJECT	SHEET NO.
	VA.	495	0495-029-419	X414 AREA 4

Cross Section Labels Are Pertinent Only To The Roadway Associated To The Alignment In Focus. For Labels On Other Roadway See The Appropriate Cross Section Sheet.



*Potential Unsuitable Soils
(Proofroll during construction to confirm)*

*GWMP Ramp G23
Station 22+00.00 To Station 22+00.00*

PROJECT	SHEET NO.
0495-029-419	X414

APPROVED FOR CONSTRUCTION

PROJECT MANAGER VDOT - Bipal Shah PE (703) 259-2362
SURVEYED BY DATE BDA - Nicholas Kougoulis LS (703) 334-0837, 12/2021
DESIGN BY BDA - Darrell Eischer BE (703) 334-0823, Dewberry - Ron Jakominich PE (703) 849-0651
SUBSURFACE UTILITY BY DATE Accurmark - Michael Taylor LS (703) 635-3060, 12/2021

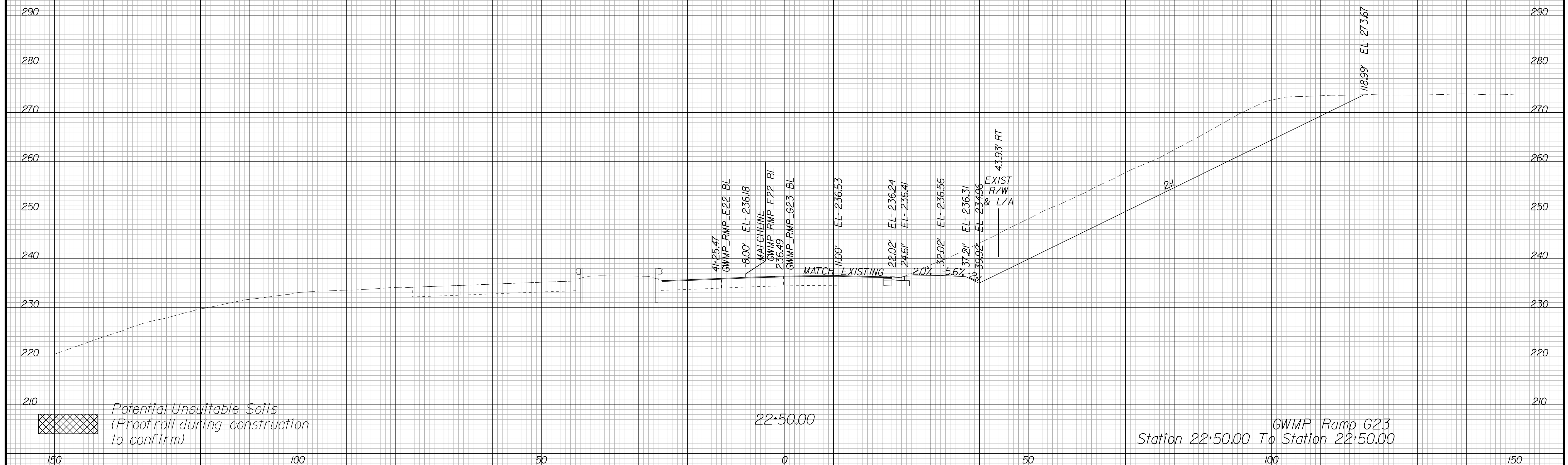
CROSS SECTIONS

SCALE 1 IN. = 10 FT

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

REVISED	STATE	ROUTE	STATE PROJECT	SHEET NO.
	VA.	495	0495-029-419	X415 AREA 4

Cross Section Labels Are Pertinent Only To The Roadway Associated To The Alignment In Focus. For Labels On Other Roadway See The Appropriate Cross Section Sheet.



*Potential Unsuitable Soils
(Proofroll during construction to confirm)*

*GWMP Ramp G23
Station 22+50.00 To Station 22+50.00*

APPROVED FOR CONSTRUCTION

PROJECT	SHEET NO.
0495-029-419	X415

PROJECT MANAGER VDOT - Bimal Sab PE (703) 259-2362
SURVEYED BY, DATE BDA - Nicholas Kougoulis LS (703) 334-0837, 12/2021
DESIGN BY BDA - Darrell Eischer BE (703) 334-0823, Dexberry - Ron Jakominich PE (703) 849-0651
SUBSURFACE UTILITY BY, DATE Accurmark - Michael Taylor LS (703) 635-3060, 12/2021

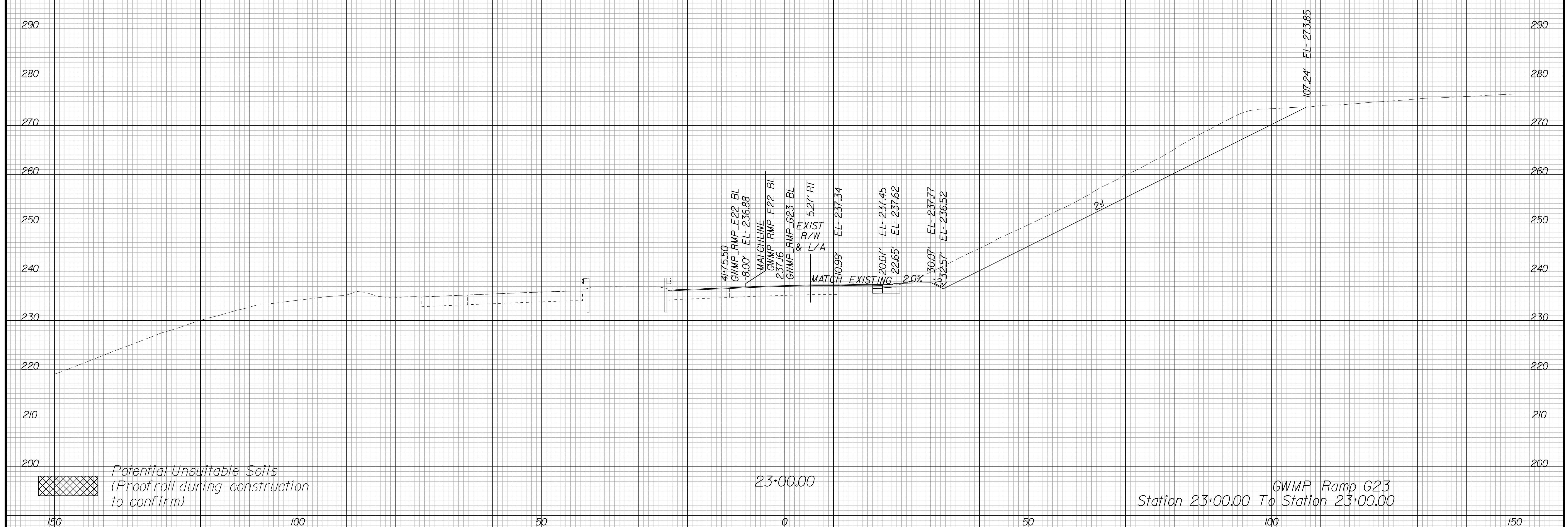
CROSS SECTIONS

SCALE 1 IN. = 10 FT

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

REVISED	STATE	ROUTE	STATE	PROJECT	SHEET NO.
	VA.	495		0495-029-419	X416 AREA 4

Cross Section Labels Are Pertinent Only To The Roadway Associated To The Alignment In Focus. For Labels On Other Roadway See The Appropriate Cross Section Sheet.



PROJECT	SHEET NO.
0495-029-419	X416

APPROVED FOR CONSTRUCTION

PROJECT MANAGER VDOT - Bimbal Stab PE (703) 259-2362
SURVEYED BY, DATE BDA - Nicholas Kougoulis LS (703) 334-0837, 12/2021
DESIGN BY BDA - Darrell Eischer BE (703) 334-0823, Dewberry - Ron Jakominich PE (703) 849-0651
SUBSURFACE UTILITY BY, DATE Accurmark - Michael Taylor LS (703) 635-3060, 12/2021

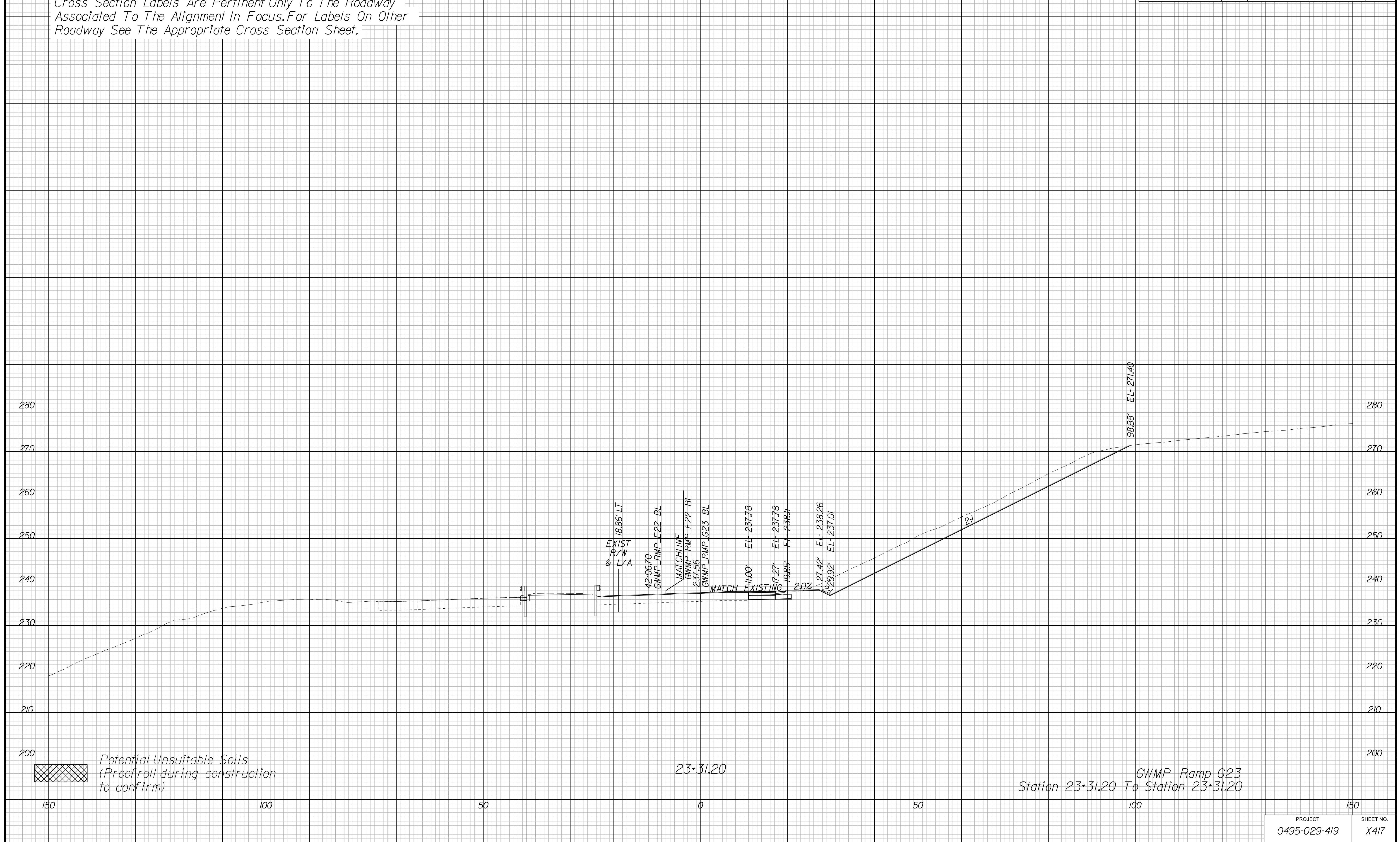
CROSS SECTIONS

SCALE 1 IN. = 10 FT

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

REVISED	STATE	ROUTE	STATE	PROJECT	SHEET NO.
	VA.	495		0495-029-419	X417 AREA 4

Cross Section Labels Are Pertinent Only To The Roadway Associated To The Alignment In Focus. For Labels On Other Roadway See The Appropriate Cross Section Sheet.



APPROVED FOR CONSTRUCTION

PROJECT	SHEET NO.
0495-029-419	X417

PROJECT MANAGER VDOT - Bipal Stab PE (703) 259-2362
SURVEYED BY, DATE BDA - Nicholas Kougoulis LS (703) 334-0837, 12/2021
DESIGN BY BDA - Darrell Eischer BE (703) 334-0823, Dexberry - Ron Jakominich PE (703) 849-0651
SUBSURFACE UTILITY BY, DATE Accurmark - Michael Taylor LS (703) 635-3060, 12/2021

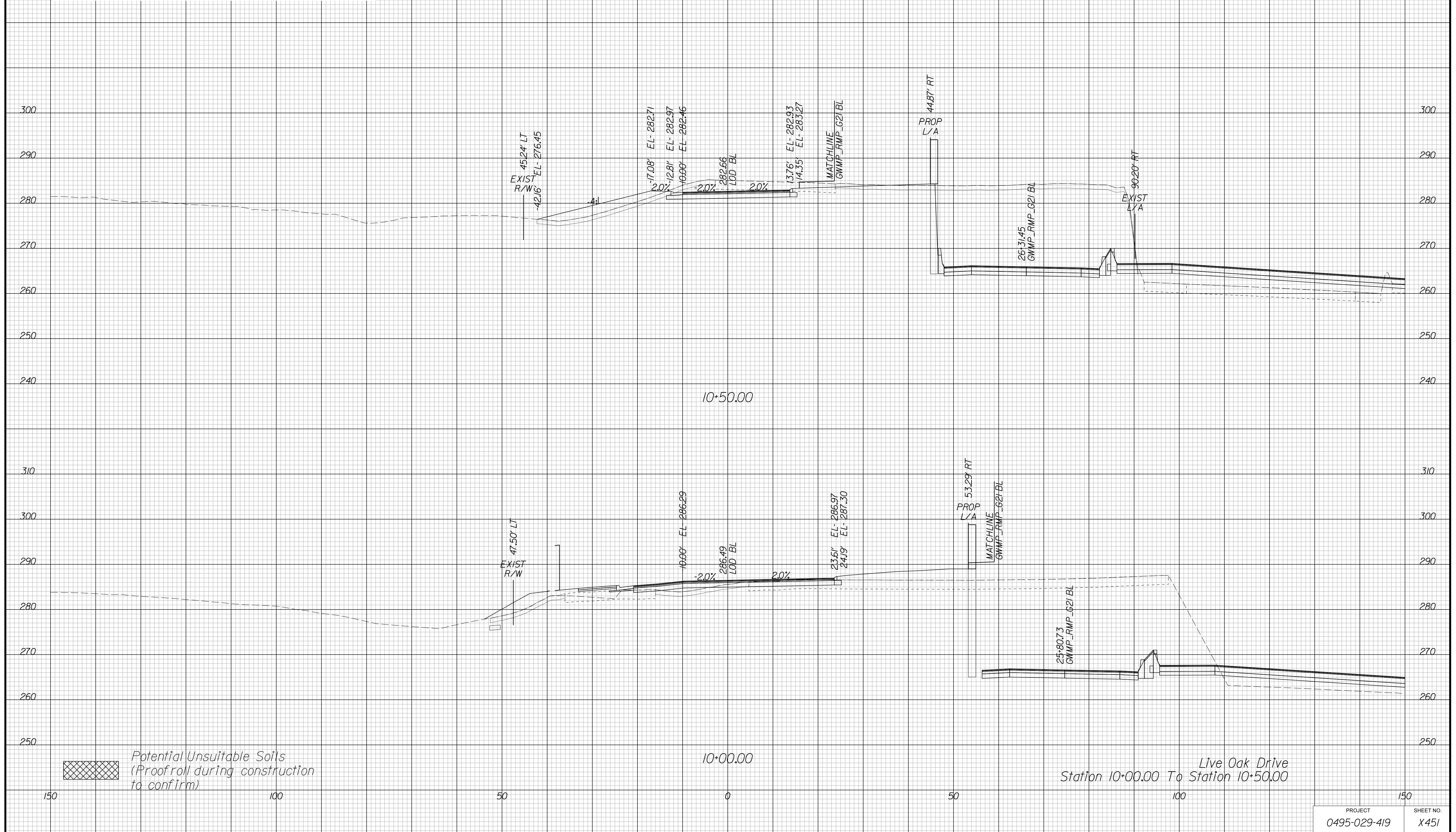
CROSS SECTIONS

SCALE 1 IN. = 10 FT

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

REVISED	STATE	ROUTE	STATE PROJECT	SHEET NO.
	VA.	495	0495-029-419	X45/ AREA 4

Cross Section Labels Are Pertinent Only To The Roadway Associated To The Alignment In Focus. For Labels On Other Roadway See The Appropriate Cross Section Sheet.



APPROVED FOR CONSTRUCTION

PROJECT MANAGER VDOT - Bimbal Stab PE (703) 259-2362
SURVEYED BY, DATE BDA - Nicholas Kougoulis LS (703) 334-0837, 12/2021
DESIGN BY BDA - Darrell Eischer BE (703) 334-0823, Dewberry - Ron Jakominich PE (703) 849-0651
SUBSURFACE UTILITY BY, DATE Accurmark - Michael Taylor LS (703) 635-3060, 12/2021

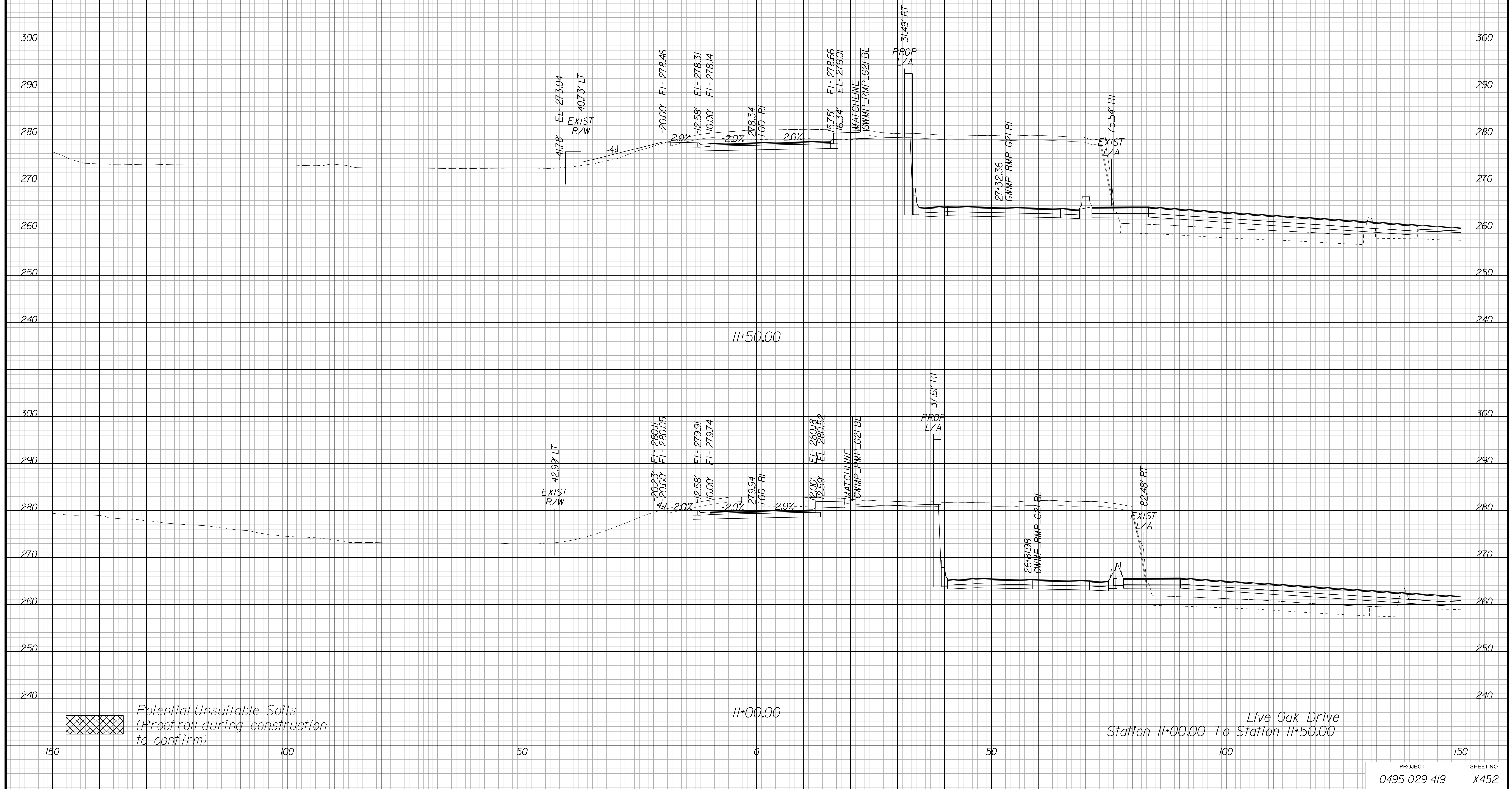
CROSS SECTIONS

SCALE 1 IN. = 10 FT

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

REVISED	STATE	ROUTE	STATE PROJECT	SHEET NO.
	VA.	495	0495-029-419	X452 AREA 4

Cross Section Labels Are Pertinent Only To The Roadway Associated To The Alignment In Focus. For Labels On Other Roadway See The Appropriate Cross Section Sheet.



APPROVED FOR CONSTRUCTION

PROJECT MANAGER VDOT - Bipal Stab PE (703) 259-2362
SURVEYED BY, DATE BDA - Nicholas Kougoulis LS (703) 334-0837, 12/2021
DESIGN BY BDA - Darrell Eischer BE (703) 334-0823, Dewberry - Ron Jakominich PE (703) 849-0651
SUBSURFACE UTILITY BY, DATE Accurmark - Michael Taylor LS (703) 635-3060, 12/2021

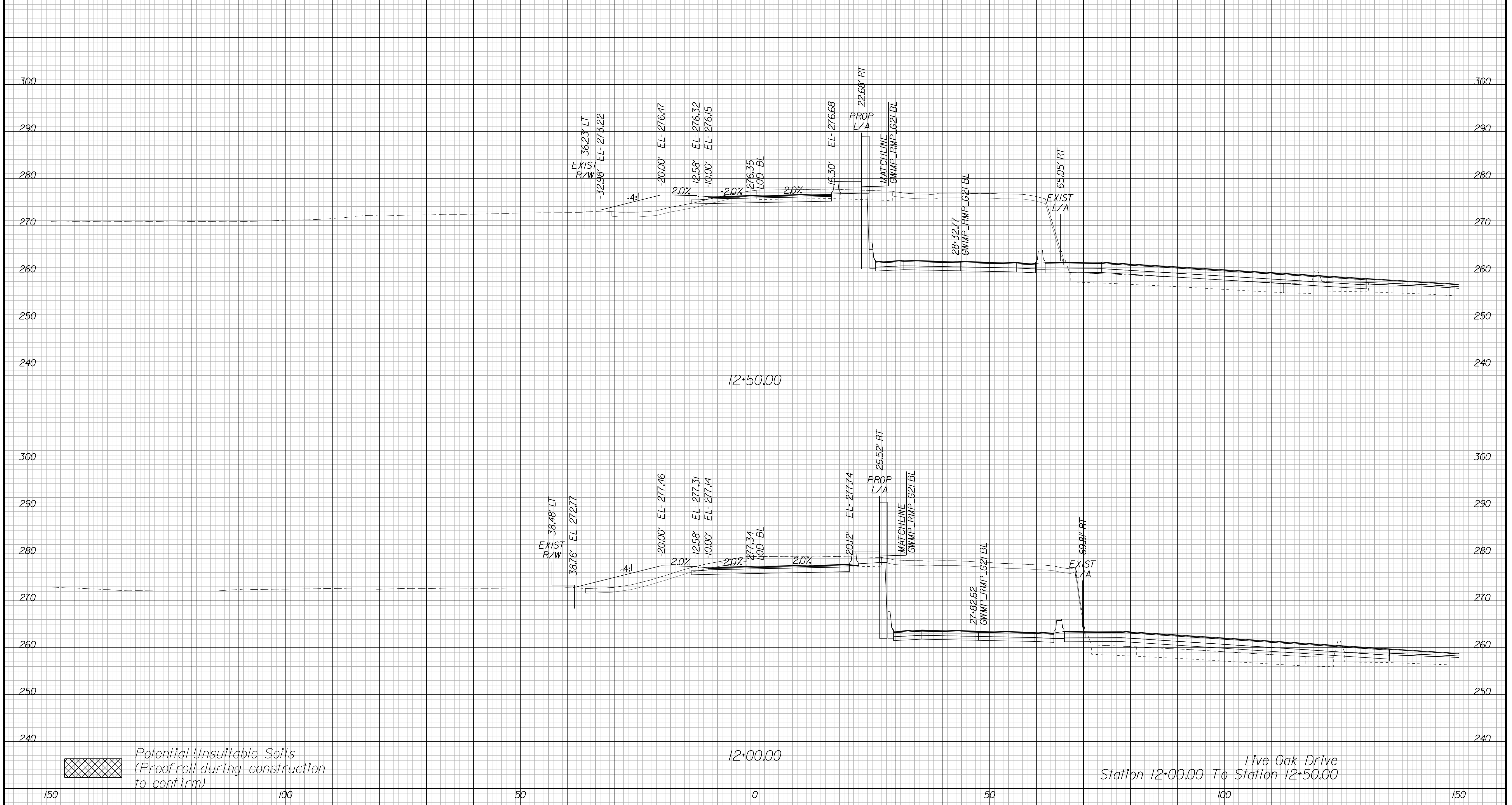
CROSS SECTIONS

SCALE 1 IN. = 10 FT

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

REVISED	STATE	ROUTE	STATE	PROJECT	SHEET NO.
	VA.	495		0495-029-419	X453 AREA 4

Cross Section Labels Are Pertinent Only To The Roadway Associated To The Alignment In Focus. For Labels On Other Roadway See The Appropriate Cross Section Sheet.



Live Oak Drive
Station 12+00.00 To Station 12+50.00

APPROVED FOR CONSTRUCTION

PROJECT MANAGER VDOT - Bimbal Stab PE (703) 259-2362
SURVEYED BY DATE BDA - Nicholas Kougoulis LS (703) 334-0837, 12/2021
DESIGN BY BDA - Darrell Eischer BE (703) 334-0823, Dexberry - Ron Jakominich PE (703) 849-0651
SUBSURFACE UTILITY BY DATE Accurmark - Michael Taylor LS (703) 635-3060, 12/2021

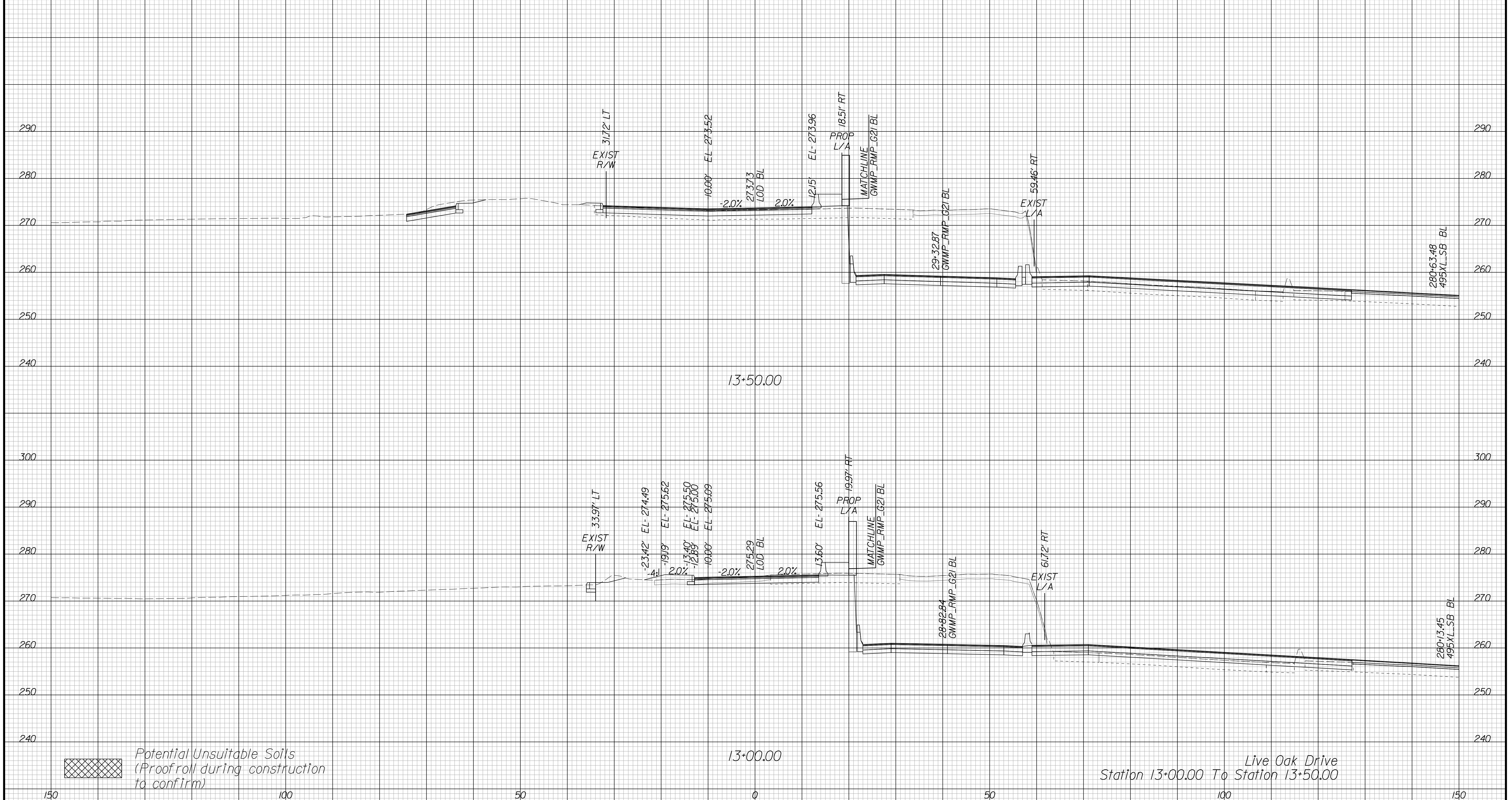
CROSS SECTIONS

SCALE 1 IN. = 10 FT

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

REVISED	STATE	ROUTE	STATE	PROJECT	SHEET NO.
	VA.	495		0495-029-419	X454 AREA 4

Cross Section Labels Are Pertinent Only To The Roadway Associated To The Alignment In Focus. For Labels On Other Roadway See The Appropriate Cross Section Sheet.



Potential Unsuitable Soils (Proofroll during construction to confirm)

Live Oak Drive
Station 13+00.00 To Station 13+50.00

PROJECT	SHEET NO.
0495-029-419	X454

APPROVED FOR CONSTRUCTION

PROJECT MANAGER VDOT - Bimbal Stab PE (703) 259-2362
SURVEYED BY DATE BDA - Nicholas Kougoulis LS (703) 334-0837, 12/2021
DESIGN BY BDA - Darrell Eischer BE (703) 334-0823, Dawbercy - Ron Jakominich PE (703) 849-0651
SUBSURFACE UTILITY BY DATE Accurmark - Michael Taylor LS (703) 635-3060, 12/2021

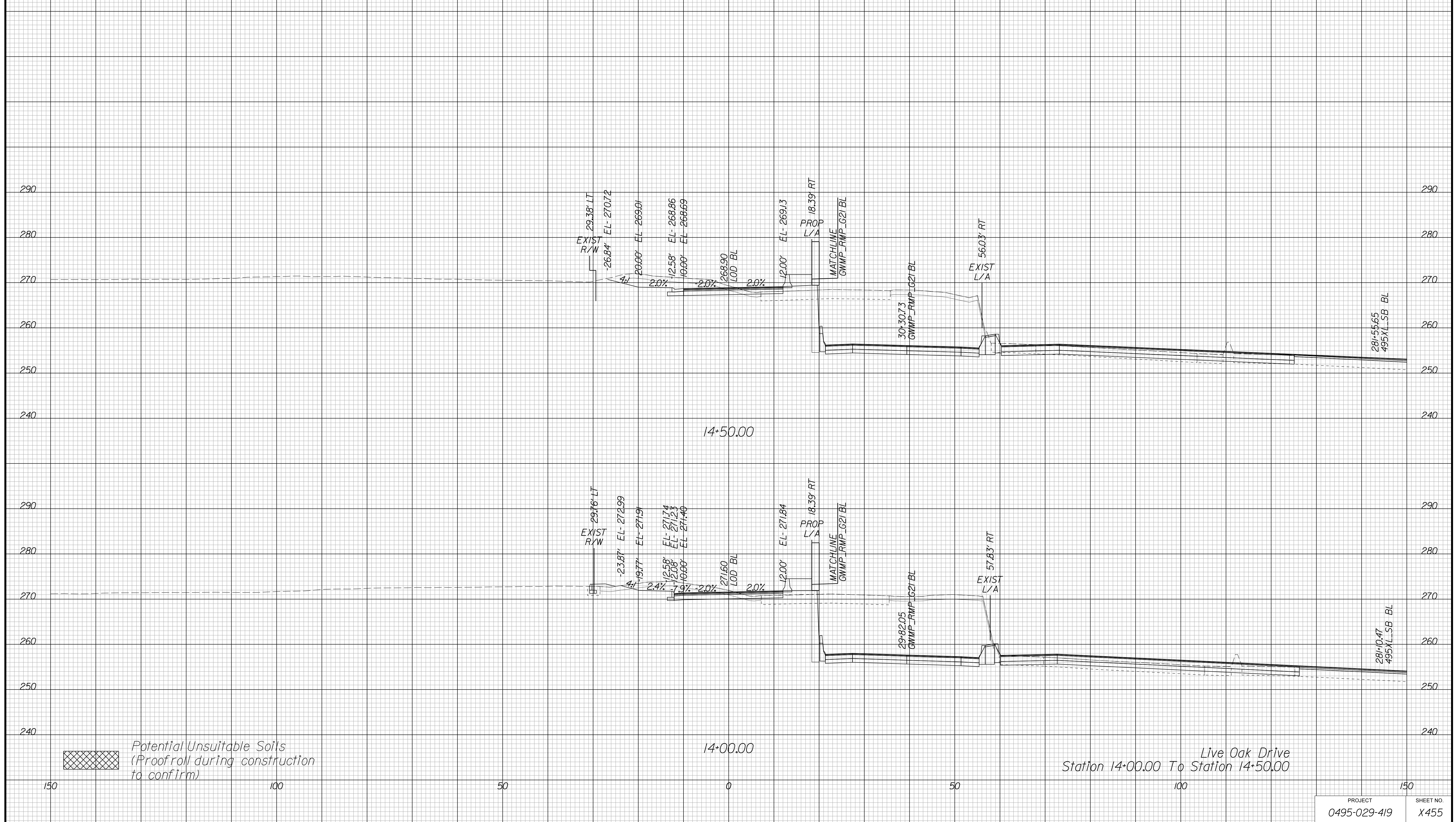
CROSS SECTIONS

SCALE 1 IN. = 10 FT

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

REVISED	STATE	ROUTE	STATE	PROJECT	SHEET NO.
	VA.	495		0495-029-419	X455 AREA 4

Cross Section Labels Are Pertinent Only To The Roadway Associated To The Alignment In Focus. For Labels On Other Roadway See The Appropriate Cross Section Sheet.



Live Oak Drive
Station 14+00.00 To Station 14+50.00

PROJECT	SHEET NO.
0495-029-419	X455

APPROVED FOR CONSTRUCTION

PROJECT MANAGER VDOT - Bipul Saha, PE, (703) 259-2362
SURVEYED BY, DATE BDA - Nicholas Kouyoulis, LS, (703) 334-0837, 12/2021
DESIGN BY BDA - Darrell Eischer, BE, (703) 334-0823, Dawbercy - Ron Jakominich, PE, (703) 849-0651
SUBSURFACE UTILITY BY, DATE Accurmark - Michael Taylor, LS, (703) 635-3060, 12/2021

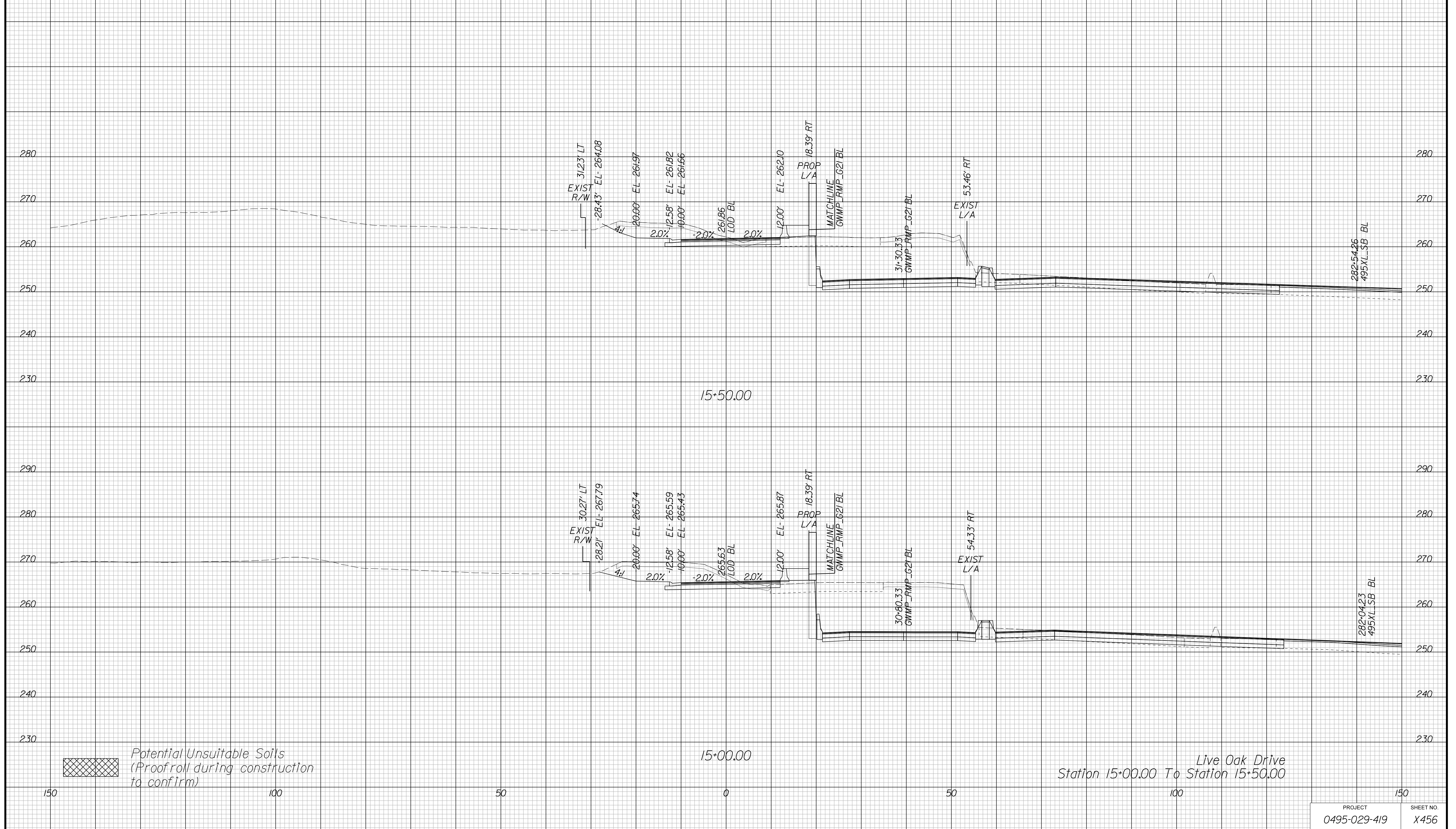
CROSS SECTIONS

SCALE 1 IN. = 10 FT

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

REVISED	STATE	ROUTE	STATE	PROJECT	SHEET NO.
	VA.	495		0495-029-419	X456 AREA 4

Cross Section Labels Are Pertinent Only To The Roadway Associated To The Alignment In Focus. For Labels On Other Roadway See The Appropriate Cross Section Sheet.



PROJECT	SHEET NO.
0495-029-419	X456

APPROVED FOR CONSTRUCTION

PROJECT MANAGER VDOT - Bipal Stab PE (703) 259-2362
SURVEYED BY, DATE BDA - Nicholas Kougoulis LS (703) 334-0837, 12/2021
DESIGN BY BDA - Darrell Eischer BE (703) 334-0823, Dexberry - Ron Jakominich PE (703) 849-0651
SUBSURFACE UTILITY BY, DATE Accurmark - Michael Taylor LS (703) 635-3060, 12/2021

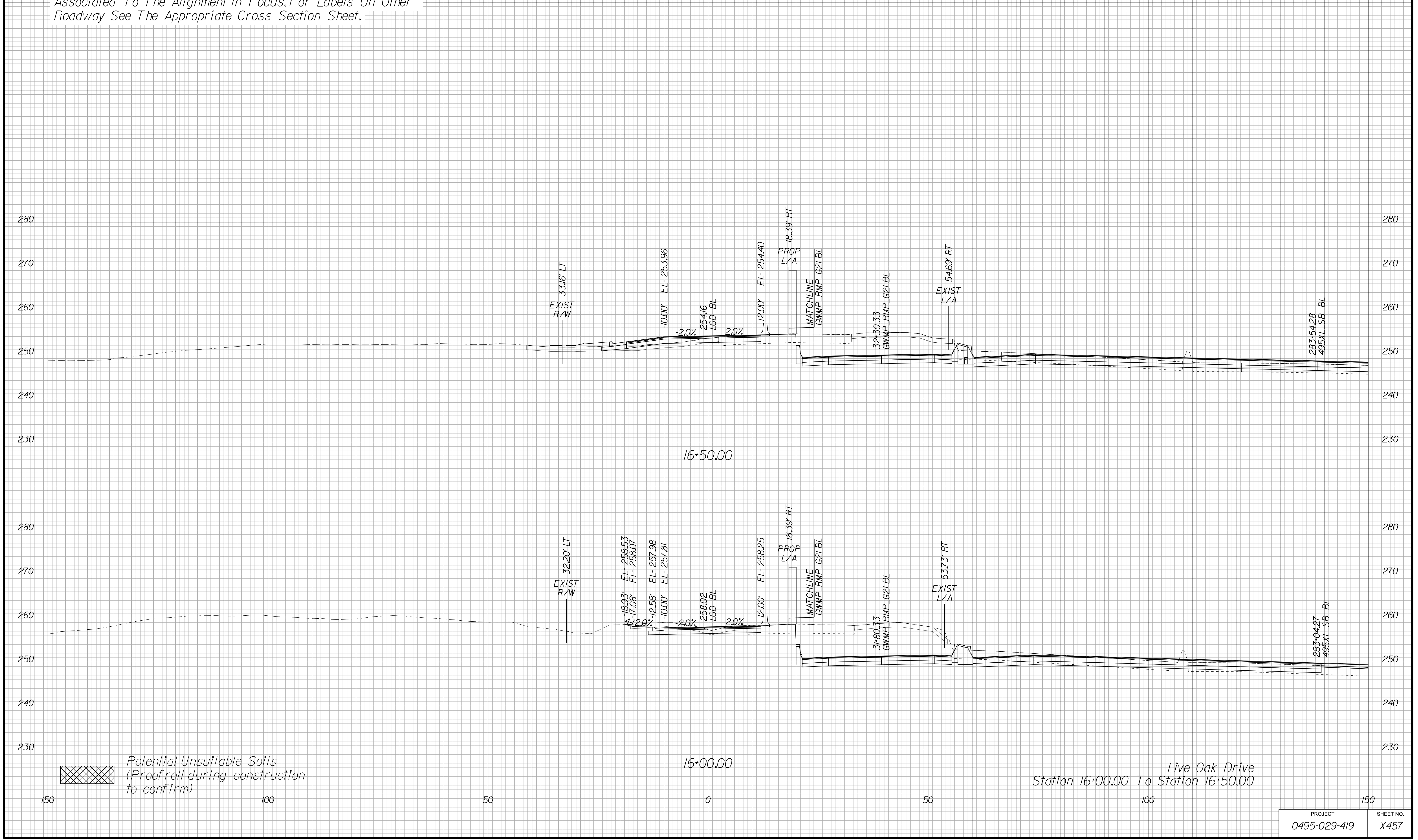
CROSS SECTIONS

SCALE 1 IN. = 10 FT

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

REVISED	STATE	ROUTE	STATE	PROJECT	SHEET NO.
	VA.	495		0495-029-419	X457 AREA 4

Cross Section Labels Are Pertinent Only To The Roadway Associated To The Alignment In Focus. For Labels On Other Roadway See The Appropriate Cross Section Sheet.



APPROVED FOR CONSTRUCTION

PROJECT MANAGER VDOT - Bimbal Stab PE (703) 259-2362
SURVEYED BY DATE BDA - Nicholas Kougoulis LS (703) 334-0837, 12/2021
DESIGN BY BDA - Darrell Eischer BE (703) 334-0823, Dexberry - Ron Jakominich PE (703) 849-0651
SUBSURFACE UTILITY BY DATE Accurmark - Michael Taylor LS (703) 635-3060, 12/2021

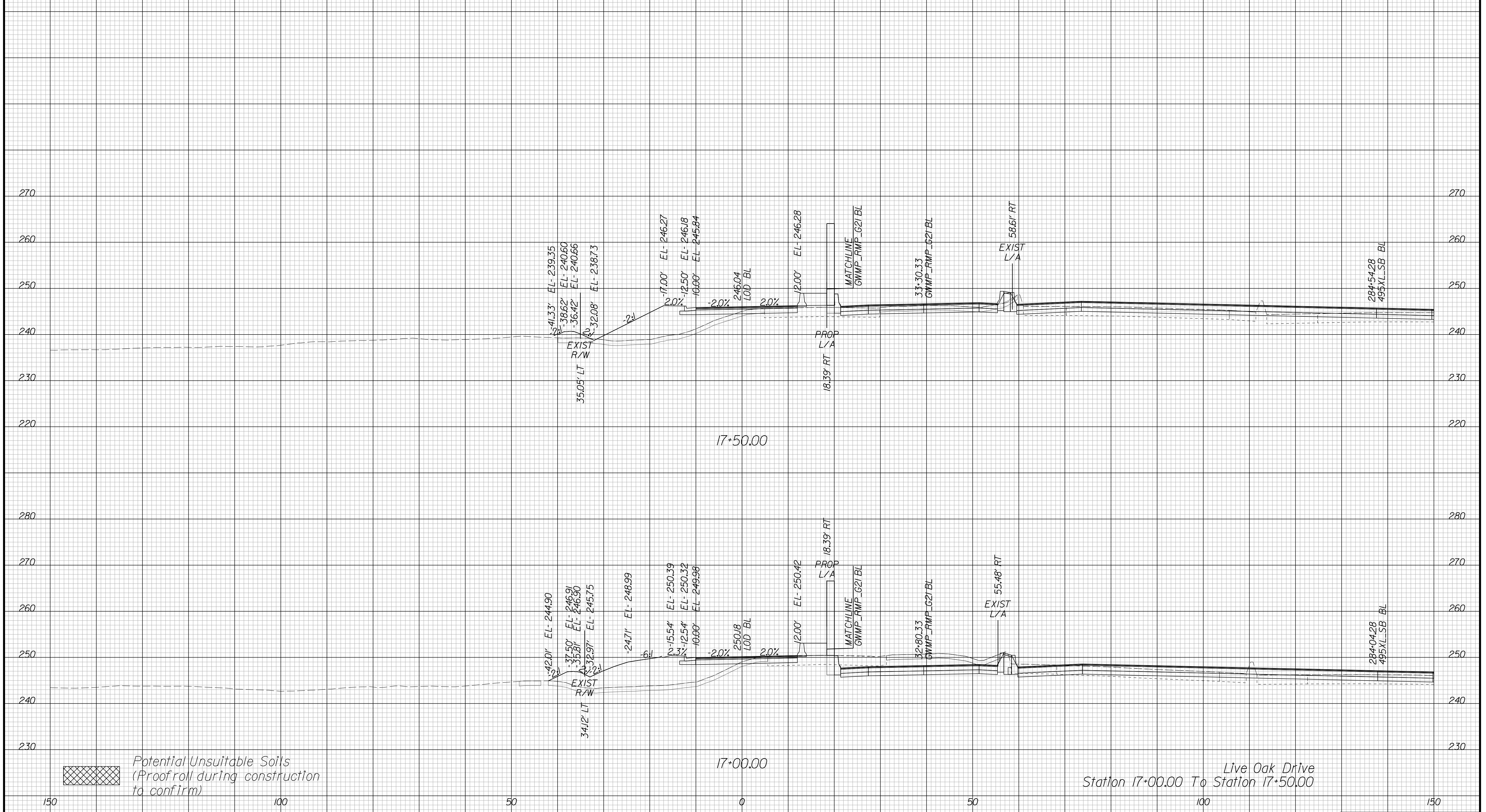
CROSS SECTIONS

SCALE 1 IN. = 10 FT

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

REVISED	STATE	ROUTE	STATE	PROJECT	SHEET NO.
	VA.	495		0495-029-419	X458 AREA 4

Cross Section Labels Are Pertinent Only To The Roadway Associated To The Alignment In Focus. For Labels On Other Roadway See The Appropriate Cross Section Sheet.



Live Oak Drive
Station 17+00.00 To Station 17+50.00

PROJECT	SHEET NO.
0495-029-419	X458

APPROVED FOR CONSTRUCTION

PROJECT MANAGER VDOT - Bimbal Stab PE (703) 259-2362
SURVEYED BY DATE BDA - Nicholas Kougoulis LS (703) 334-0837, 12/2021
DESIGN BY BDA - Darrell Eischer BE (703) 334-0823, Dexberry - Ron Jakominich PE (703) 849-0651
SUBSURFACE UTILITY BY DATE Accurmark - Michael Taylor LS (703) 635-3060, 12/2021

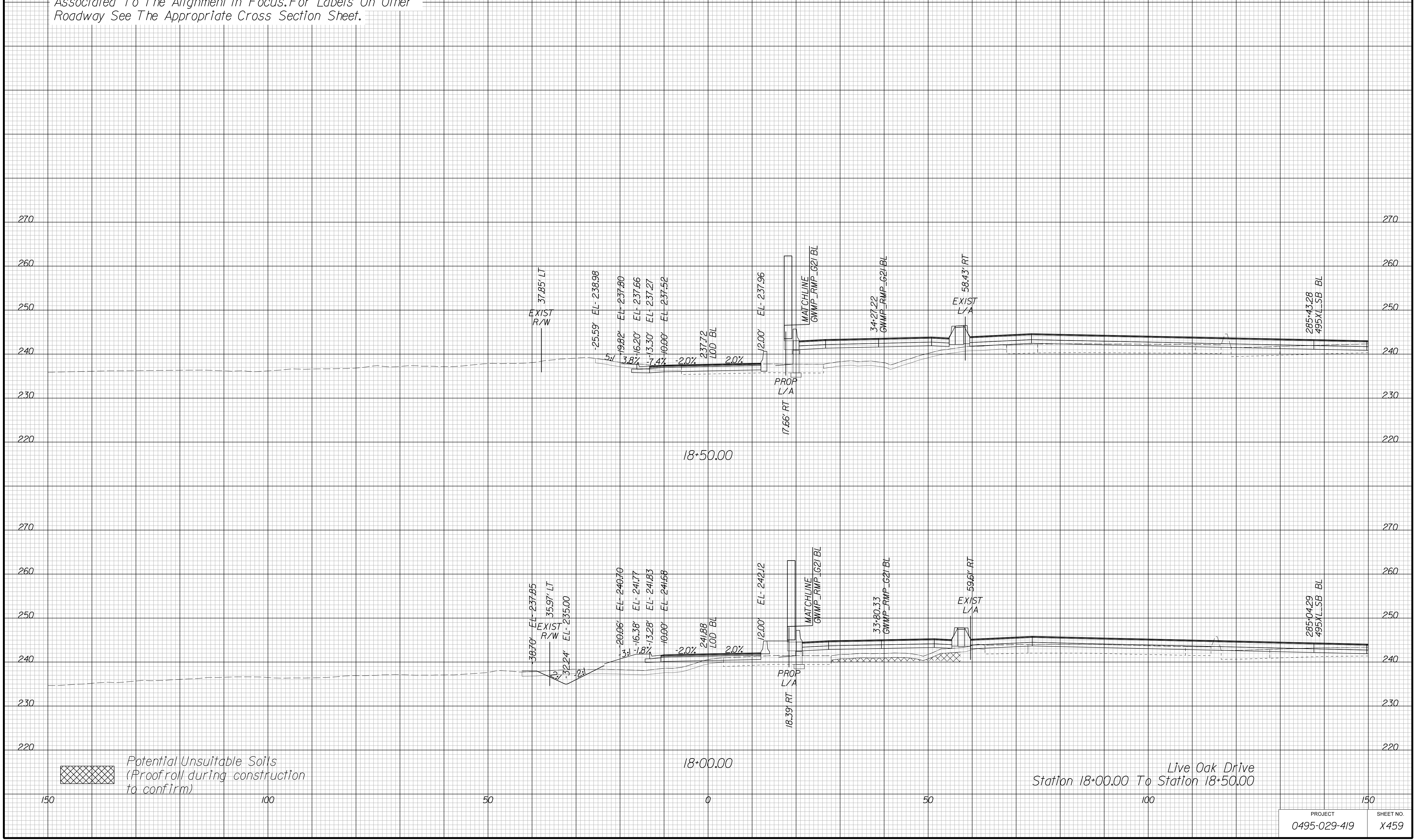
CROSS SECTIONS

SCALE 1 IN. = 10 FT

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

REVISED	STATE	ROUTE	STATE	PROJECT	SHEET NO.
	VA.	495		0495-029-419	X459 AREA 4

Cross Section Labels Are Pertinent Only To The Roadway Associated To The Alignment In Focus. For Labels On Other Roadway See The Appropriate Cross Section Sheet.



APPROVED FOR CONSTRUCTION

PROJECT MANAGER VDOT - Bipal Sab PE (703) 259-2362
SURVEYED BY DATE BDA - Nicholas Kougoulis LS (703) 334-0837, 12/2021
DESIGN BY BDA - Darrell Eischer BE (703) 334-0823, Dewberry - Ron Jakominich PE (703) 849-0651
SUBSURFACE UTILITY BY DATE Accurmark - Michael Taylor LS (703) 635-3060, 12/2021

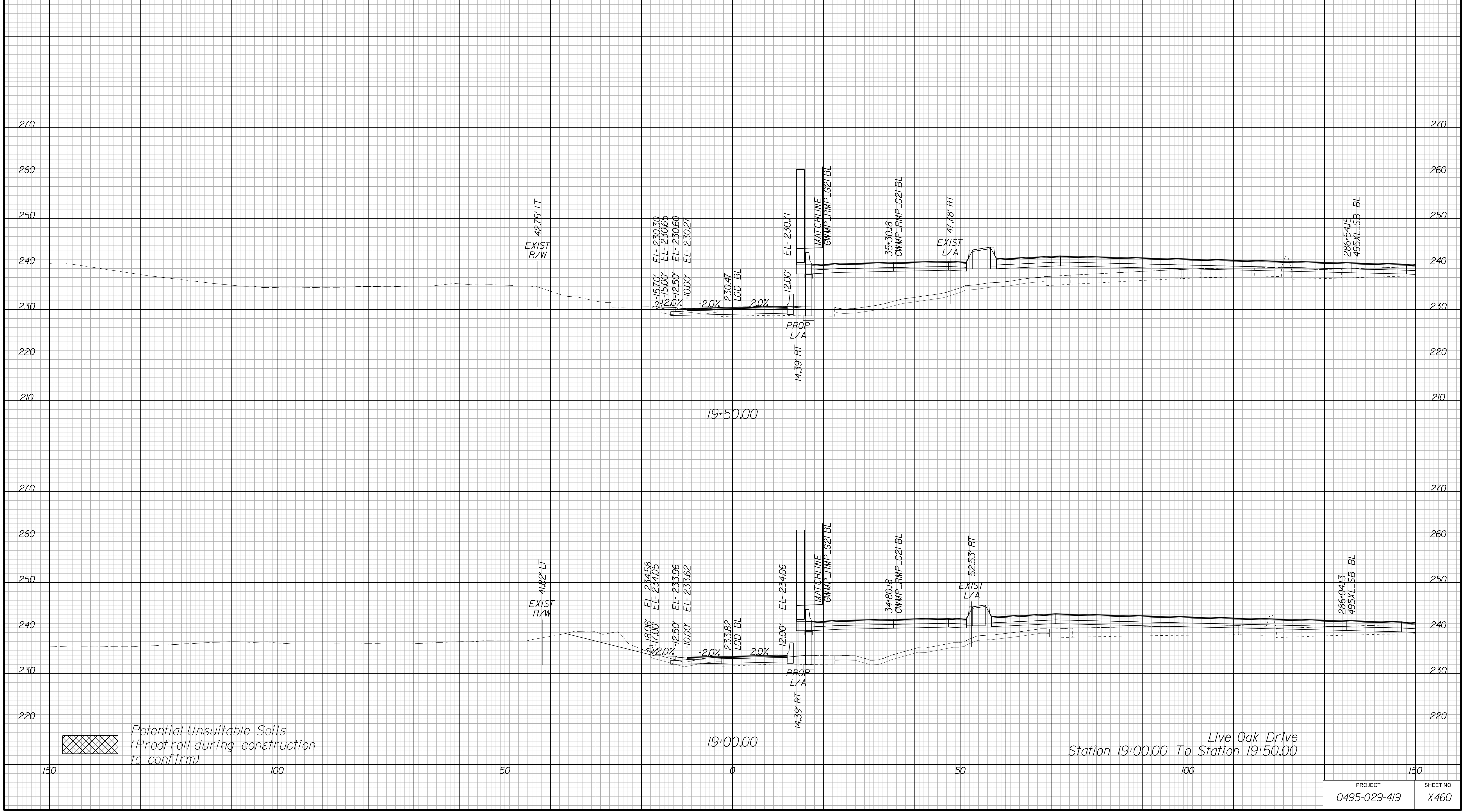
CROSS SECTIONS

SCALE 1 IN. = 10 FT

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

REVISED	STATE	ROUTE	STATE	PROJECT	SHEET NO.
	VA.	495		0495-029-419	X460 AREA 4

Cross Section Labels Are Pertinent Only To The Roadway Associated To The Alignment In Focus. For Labels On Other Roadway See The Appropriate Cross Section Sheet.



Live Oak Drive
Station 19+00.00 To Station 19+50.00

PROJECT	SHEET NO.
0495-029-419	X460

APPROVED FOR CONSTRUCTION

PROJECT MANAGER VDOT - Bipal Stab PE (703) 259-2362
SURVEYED BY, DATE BDA - Nicholas Kougoulis LS (703) 334-0837, 12/2021
DESIGN BY BDA - Darrell Eischer BE (703) 334-0823, Dexberry - Ron Jakominich PE (703) 849-0651
SUBSURFACE UTILITY BY, DATE Accurmark - Michael Taylor LS (703) 635-3060, 12/2021

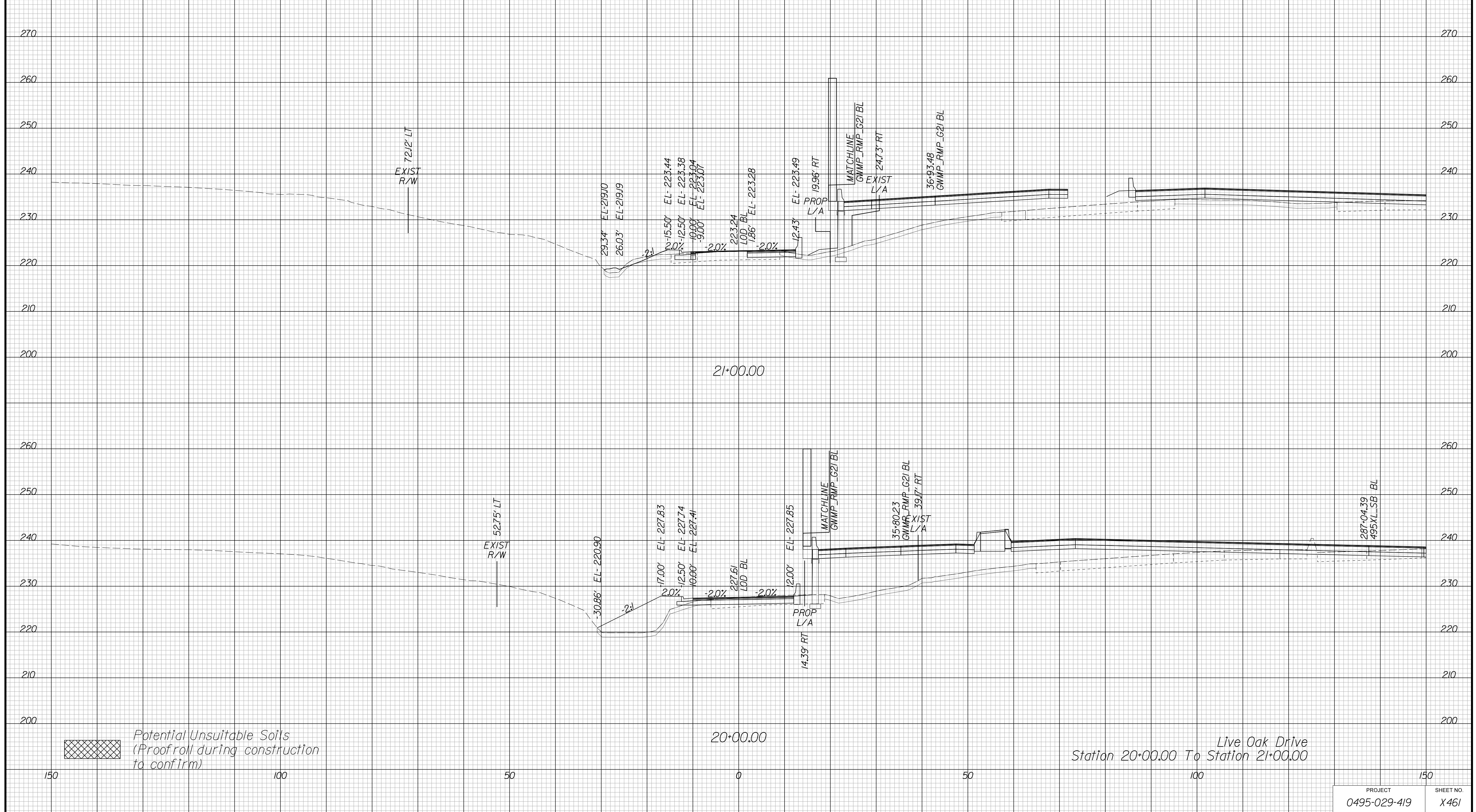
CROSS SECTIONS

SCALE 1 IN. = 10 FT

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

REVISED	STATE	ROUTE	STATE PROJECT	SHEET NO.
	VA.	495	0495-029-419	X461 AREA 4

Cross Section Labels Are Pertinent Only To The Roadway Associated To The Alignment In Focus. For Labels On Other Roadway See The Appropriate Cross Section Sheet.



APPROVED FOR CONSTRUCTION

PROJECT MANAGER VDOT - Bimbal Stab PE (703) 259-2362
SURVEYED BY, DATE BDA - Nicholas Kougoulis LS (703) 334-0837, 12/2021
DESIGN BY BDA - Darrell Elischer BE (703) 334-0823, Dawbercy - Ron Jakominich PE (703) 849-0651
SUBSURFACE UTILITY BY, DATE Accurmark - Michael Taylor LS (703) 635-3060, 12/2021

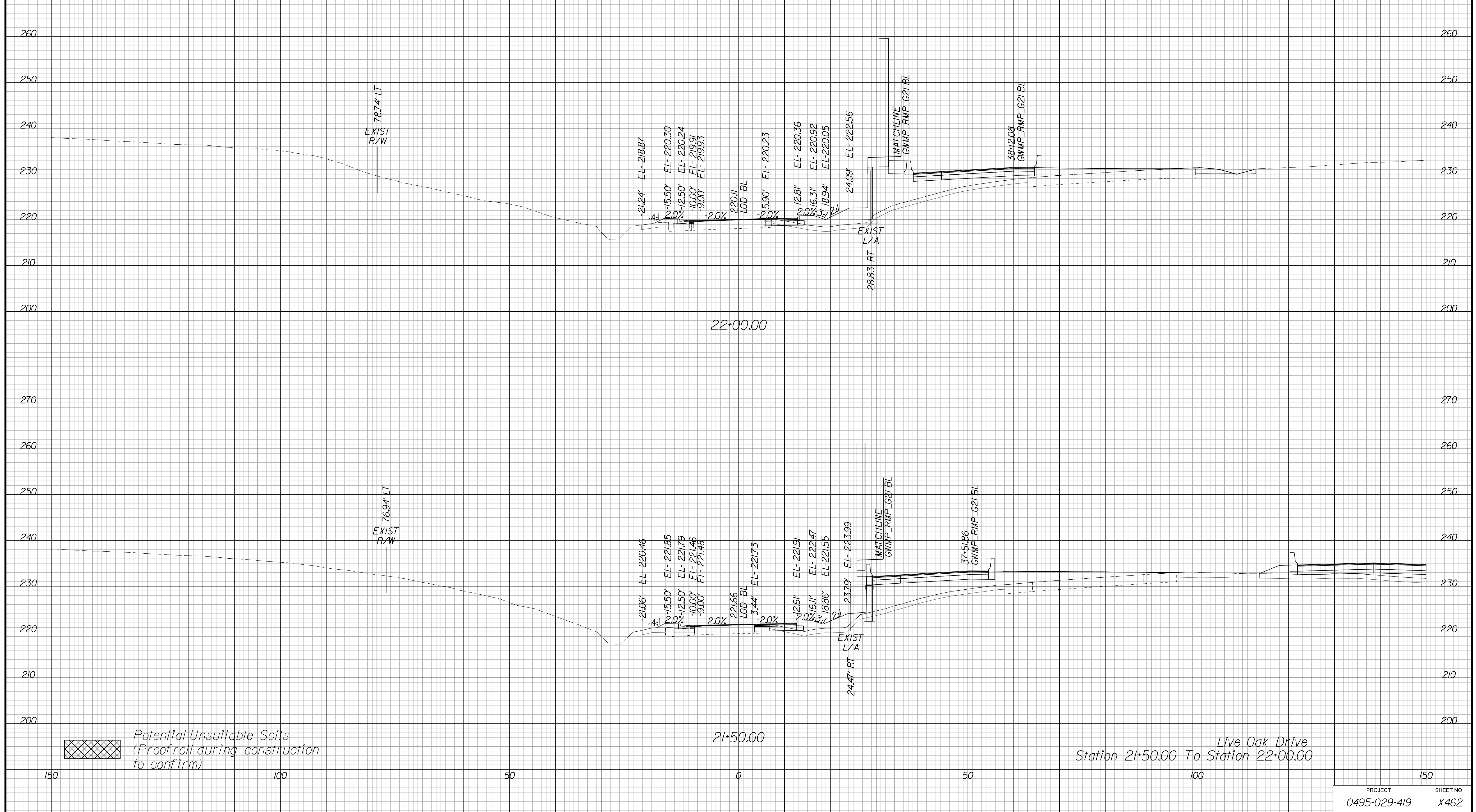
CROSS SECTIONS

SCALE 1 IN. = 10 FT

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

REVISED	STATE	ROUTE	STATE	PROJECT	SHEET NO.
	VA.	495		0495-029-419	X462 AREA 4

Cross Section Labels Are Pertinent Only To The Roadway Associated To The Alignment In Focus. For Labels On Other Roadway See The Appropriate Cross Section Sheet.



APPROVED FOR CONSTRUCTION

PROJECT MANAGER VDOT - Bipal Shab PE (703) 259-2362
SURVEYED BY, DATE BDA - Nicholas Kougoulis LS (703) 334-0837, 12/2021
DESIGN BY BDA - Darrell Eischer BE (703) 334-0823, Dexberry - Ron Jakominich PE (703) 849-0651
SUBSURFACE UTILITY BY, DATE Accurmark - Michael Taylor LS (703) 635-3060, 12/2021

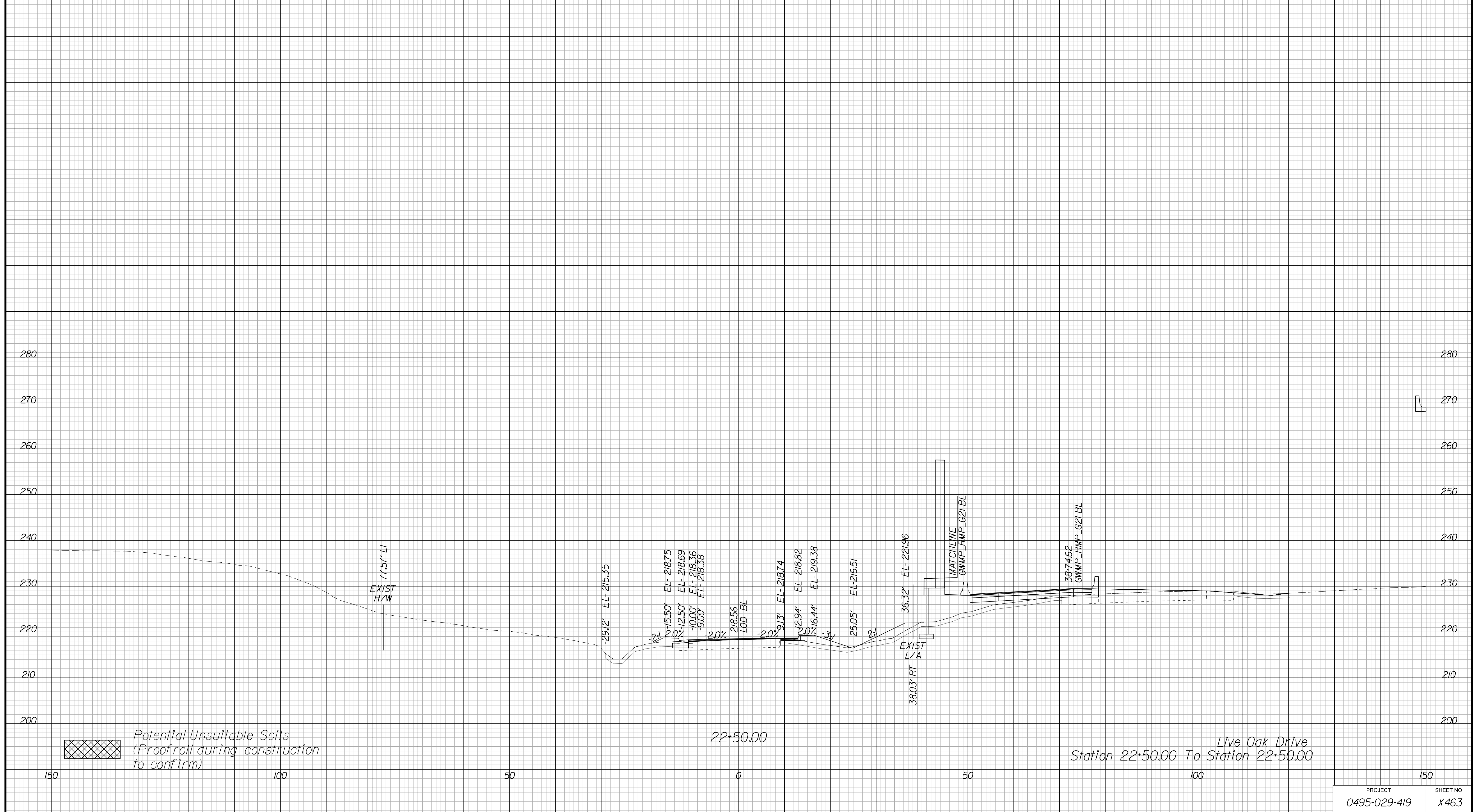
CROSS SECTIONS

SCALE 1 IN. = 10 FT

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

REVISED	STATE	ROUTE	STATE	PROJECT	SHEET NO.
	VA.	495		0495-029-419	X463 AREA 4

Cross Section Labels Are Pertinent Only To The Roadway Associated To The Alignment In Focus. For Labels On Other Roadway See The Appropriate Cross Section Sheet.



PROJECT	SHEET NO.
0495-029-419	X463

APPROVED FOR CONSTRUCTION

PROJECT MANAGER VDOT - Bipal Stab PE (703) 259-2362
SURVEYED BY, DATE BDA - Nicholas Kougoulis LS (703) 334-0837, 12/2021
DESIGN BY BDA - Darrell Elischer BE (703) 334-0823, Dewberry - Ron Jakominich PE (703) 849-0651
SUBSURFACE UTILITY BY, DATE Accurmark - Michael Taylor LS (703) 635-3060, 12/2021

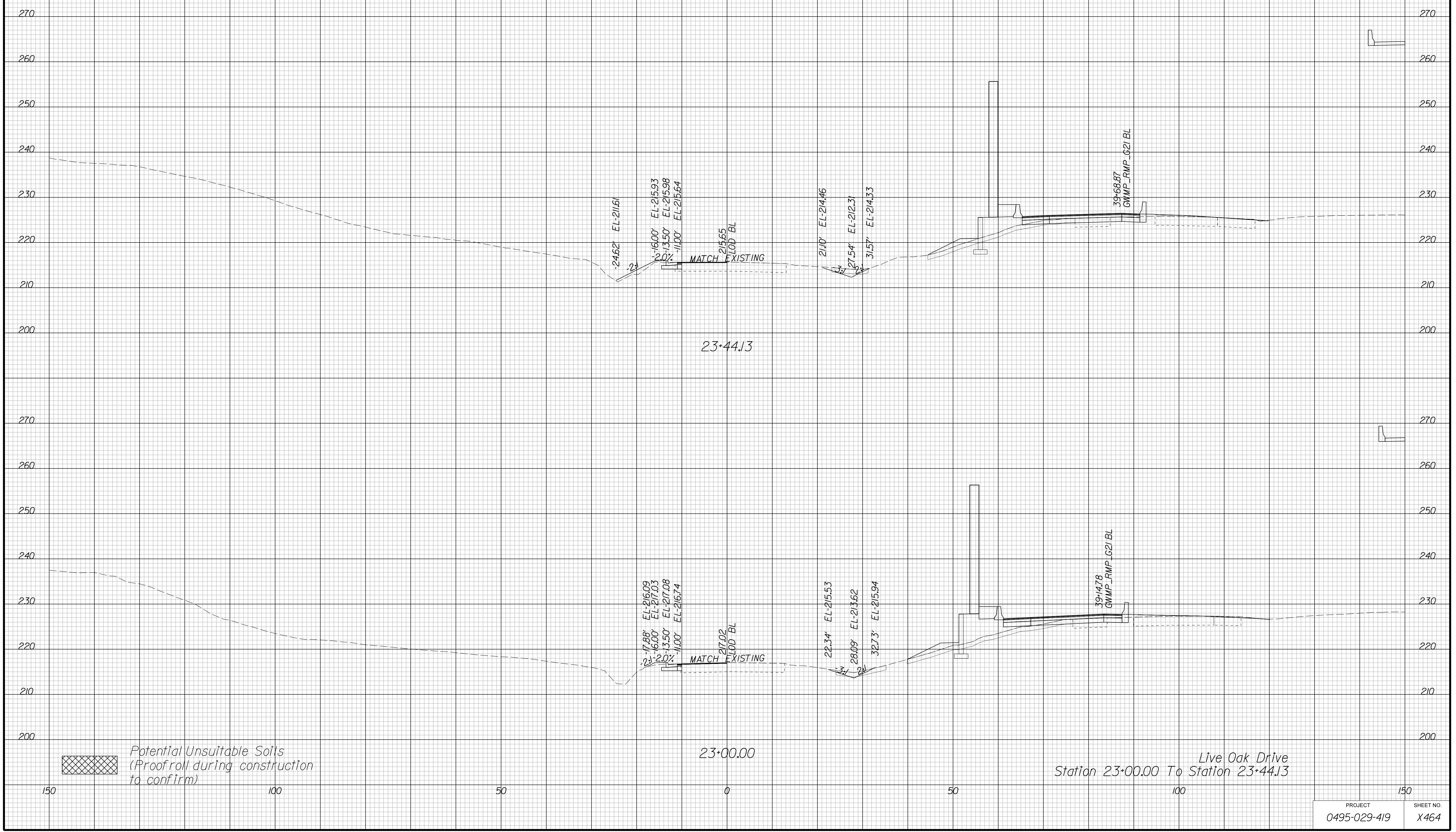
CROSS SECTIONS

SCALE 1 IN. = 10 FT

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

REVISED	STATE	ROUTE	STATE	PROJECT	SHEET NO.
	VA.	495		0495-029-419	X464 AREA 4

Cross Section Labels Are Pertinent Only To The Roadway Associated To The Alignment In Focus. For Labels On Other Roadway See The Appropriate Cross Section Sheet.



APPROVED FOR CONSTRUCTION

PROJECT MANAGER VDOT - Bimbal Stab PE (703) 259-2362
SURVEYED BY DATE BDA - Nicholas Kougoulis LS (703) 334-0837, 12/2021
DESIGN BY BDA - Darrell Eischer BE (703) 334-0823, Daxbery - Ron Jakominich PE (703) 849-0651
SUBSURFACE UTILITY BY DATE Accurmark - Michael Taylor LS (703) 635-3060, 12/2021

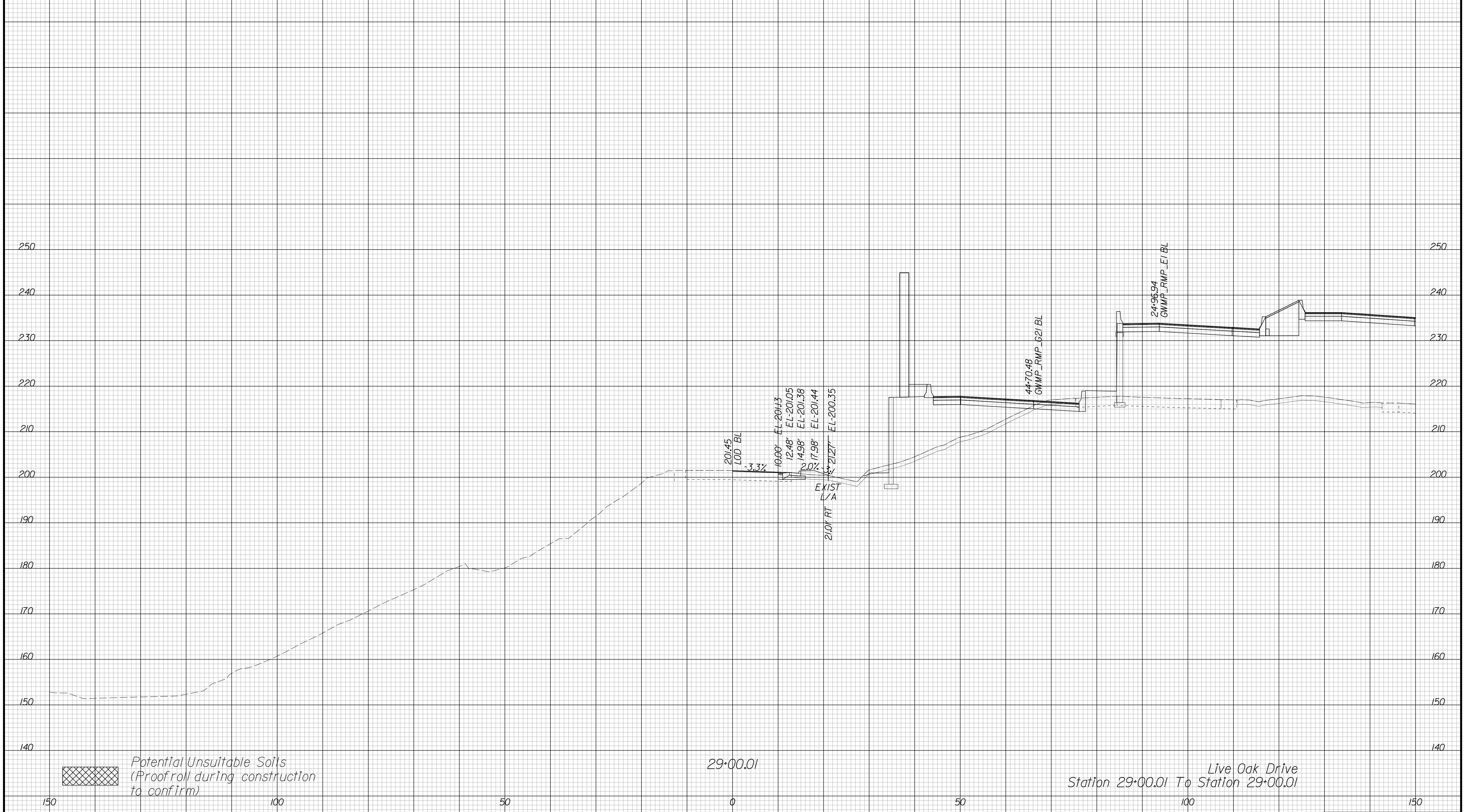
CROSS SECTIONS

SCALE 1 IN. = 10 FT

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

REVISED	STATE	ROUTE	STATE	PROJECT	SHEET NO.
	VA.	495		0495-029-419	X465 AREA 4

Cross Section Labels Are Pertinent Only To The Roadway Associated To The Alignment In Focus. For Labels On Other Roadway See The Appropriate Cross Section Sheet.



Live Oak Drive
Station 29+00.01 To Station 29+00.01

PROJECT	SHEET NO.
0495-029-419	X465

APPROVED FOR CONSTRUCTION

PROJECT MANAGER VDOT - Bipal Shah PE (703) 259-2362
SURVEYED BY, DATE BDA - Nicholas Kougoulis LS (703) 334-0837, 12/2021
DESIGN BY BDA - Darrell Eischer BE (703) 334-0823, Dewberry - Ron Jakominich PE (703) 849-0651
SUBSURFACE UTILITY BY, DATE Accurmark - Michael Taylor LS (703) 635-3060, 12/2021

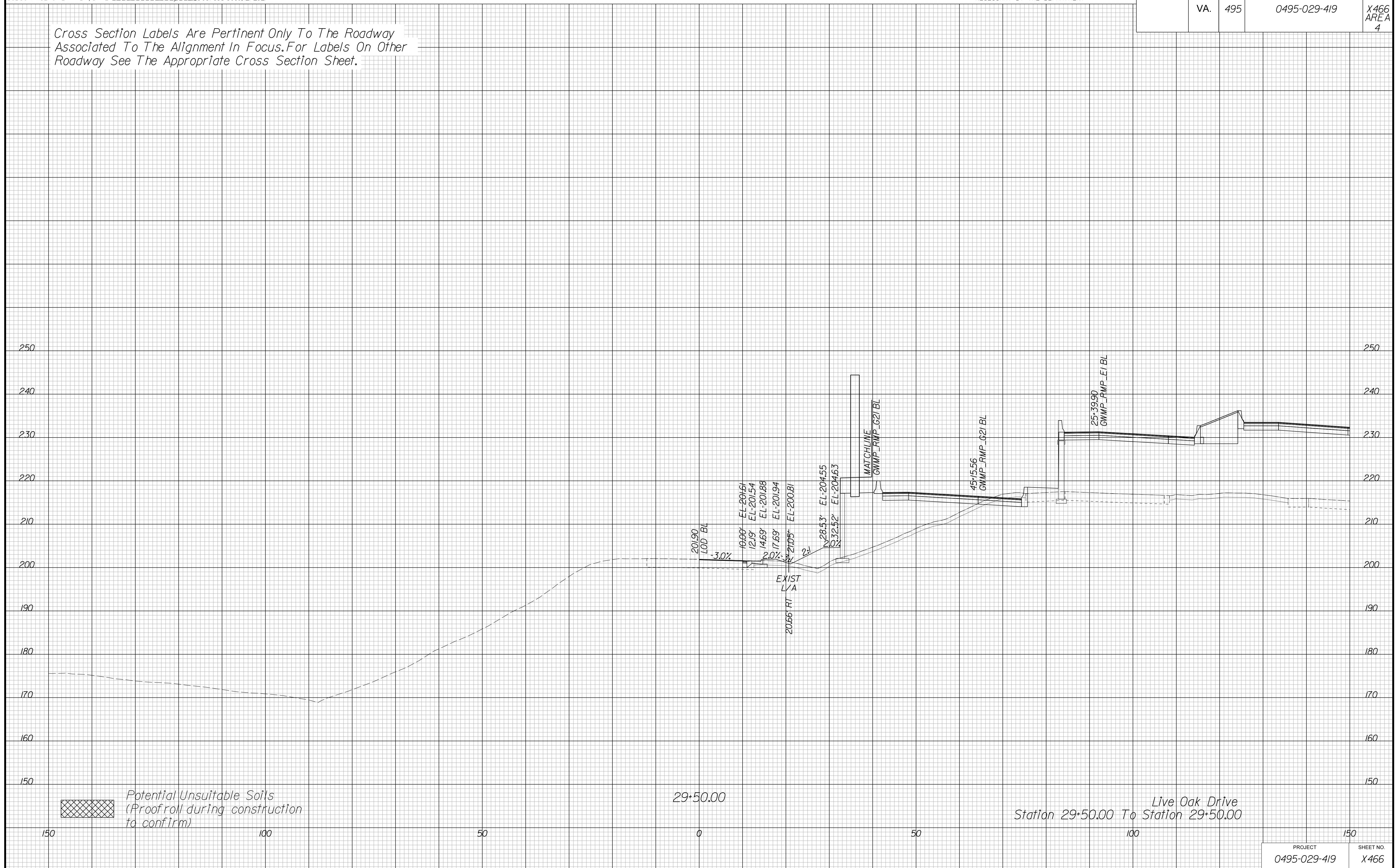
CROSS SECTIONS

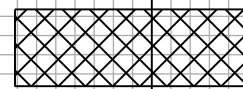
SCALE 1 IN. = 10 FT

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

REVISED	STATE	ROUTE	STATE PROJECT	SHEET NO.
	VA.	495	0495-029-419	X466 AREA 4

Cross Section Labels Are Pertinent Only To The Roadway Associated To The Alignment In Focus. For Labels On Other Roadway See The Appropriate Cross Section Sheet.



 Potential Unsuitable Soils (Proofroll during construction to confirm)

Live Oak Drive
Station 29+50.00 To Station 29+50.00

PROJECT	SHEET NO.
0495-029-419	X466

APPROVED FOR CONSTRUCTION

PROJECT MANAGER VDOT - Bimbal Stab PE (703) 259-2362
SURVEYED BY, DATE BDA - Nicholas Kougoulis LS (703) 334-0837, 12/2021
DESIGN BY BDA - Darrell Eischer BE (703) 334-0823, Dewberry - Ron Jakominich PE (703) 849-0651
SUBSURFACE UTILITY BY, DATE Accurmark - Michael Taylor LS (703) 635-3060, 12/2021

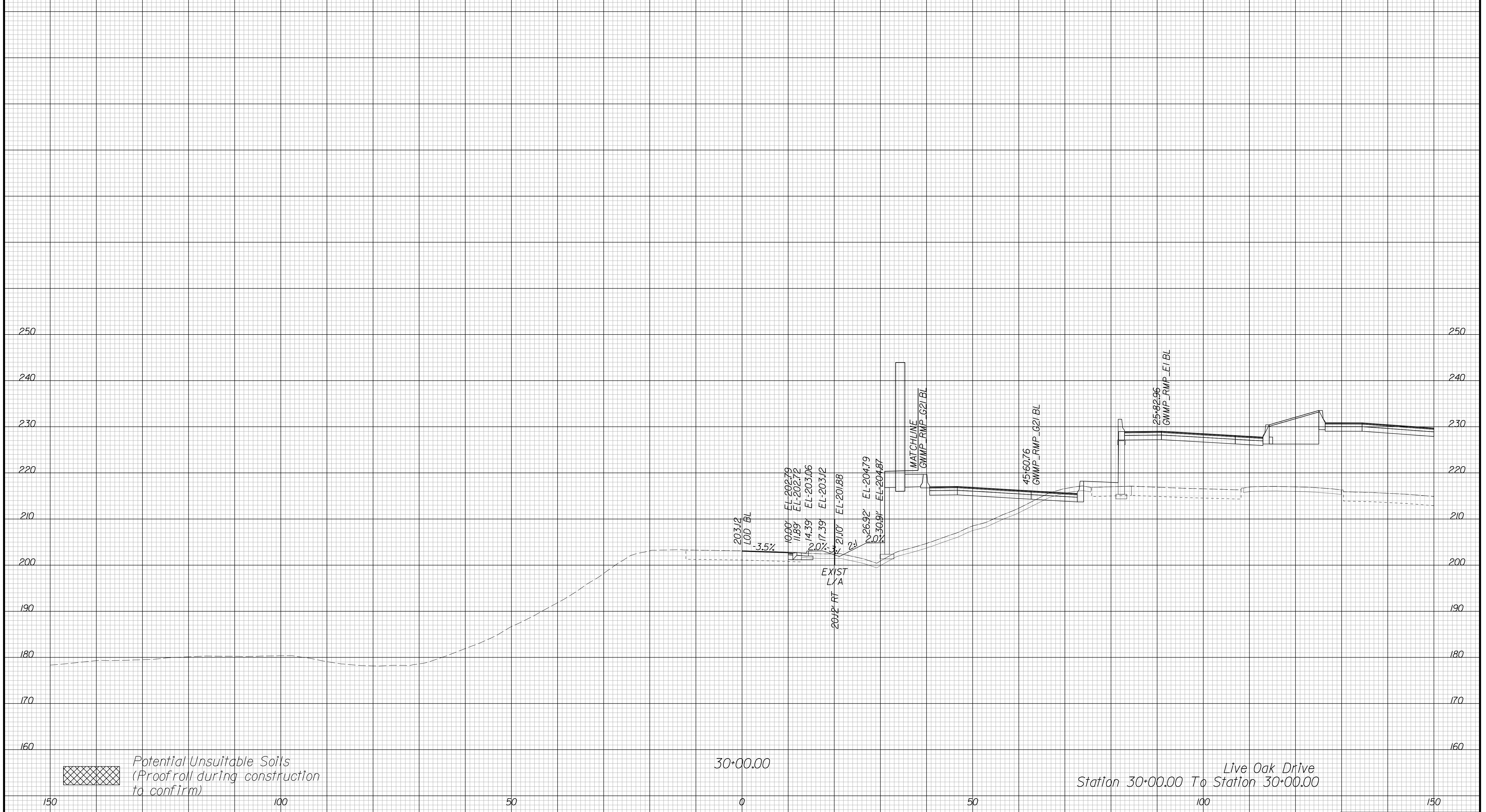
CROSS SECTIONS

SCALE 1 IN. = 10 FT

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

REVISED	STATE	ROUTE	STATE	PROJECT	SHEET NO.
	VA.	495		0495-029-419	X467 AREA 4

Cross Section Labels Are Pertinent Only To The Roadway Associated To The Alignment In Focus. For Labels On Other Roadway See The Appropriate Cross Section Sheet.



PROJECT	SHEET NO.
0495-029-419	X467

APPROVED FOR CONSTRUCTION

PROJECT MANAGER VDOT - Bipal Shab PE (703) 259-2362
SURVEYED BY, DATE BDA - Nicholas Kougoulis LS (703) 334-0837, 12/2021
DESIGN BY BDA - Darrell Eischer BE (703) 334-0823, Dewberry - Ron Jakominich PE (703) 849-0651
SUBSURFACE UTILITY BY, DATE Accurmark - Michael Taylor LS (703) 635-3060, 12/2021

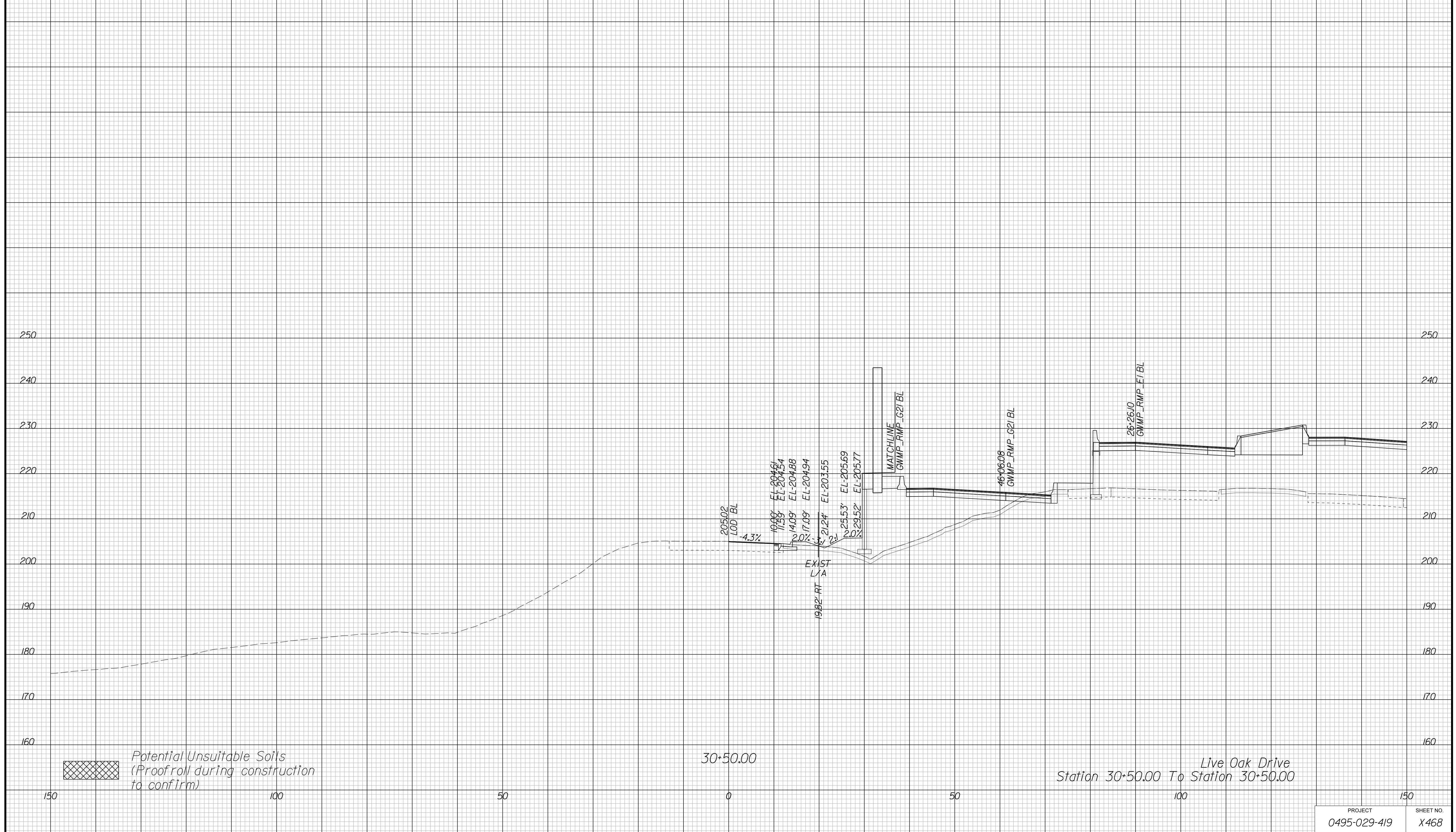
CROSS SECTIONS

SCALE 1 IN. = 10 FT

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

REVISED	STATE	ROUTE	STATE	PROJECT	SHEET NO.
	VA.	495		0495-029-419	X468 AREA 4

Cross Section Labels Are Pertinent Only To The Roadway Associated To The Alignment In Focus. For Labels On Other Roadway See The Appropriate Cross Section Sheet.



PROJECT	SHEET NO.
0495-029-419	X468

APPROVED FOR CONSTRUCTION

PROJECT MANAGER VDOT - Bimbal Stab PE (703) 259-2362
SURVEYED BY DATE BDA - Nicholas Kougoulis LS (703) 334-0837, 12/2021
DESIGN BY BDA - Darrell Eischer BE (703) 334-0823, Dawbergy - Ron Jakominich PE (703) 849-0651
SUBSURFACE UTILITY BY DATE Accurmark - Michael Taylor LS (703) 635-3060, 12/2021

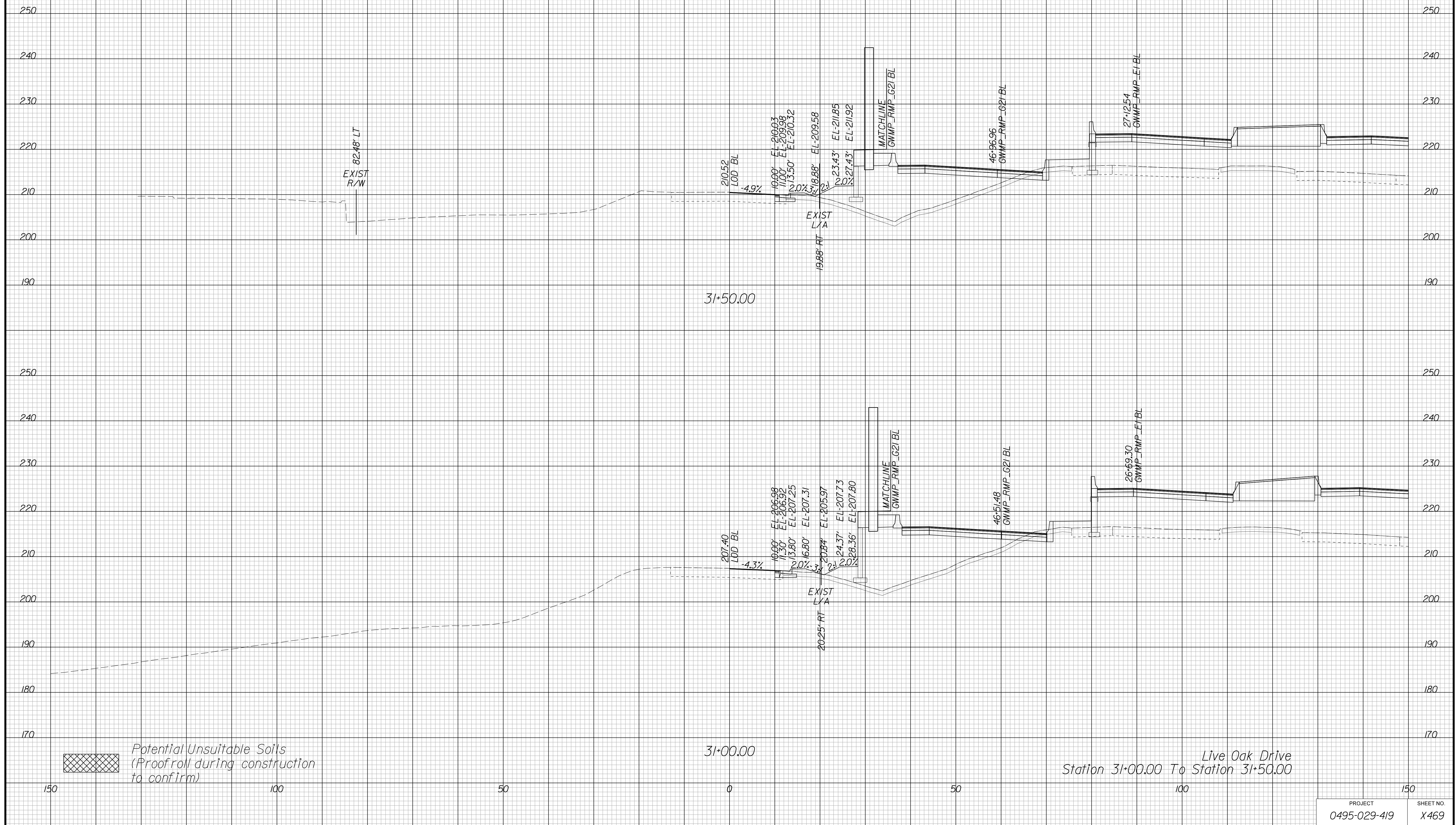
CROSS SECTIONS

SCALE 1 IN. = 10 FT

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

REVISED	STATE	ROUTE	STATE	PROJECT	SHEET NO.
	VA.	495		0495-029-419	X469 AREA 4

Cross Section Labels Are Pertinent Only To The Roadway Associated To The Alignment In Focus. For Labels On Other Roadway See The Appropriate Cross Section Sheet.



APPROVED FOR CONSTRUCTION

PROJECT MANAGER VDOT - Bimbal Stab PE (703) 259-2362
SURVEYED BY DATE BDA - Nicholas Kougoulis LS (703) 334-0837, 12/2021
DESIGN BY BDA - Darrell Eischer BE (703) 334-0823, Dawbergy - Ron Jakominich PE (703) 849-0651
SUBSURFACE UTILITY BY DATE Accurmark - Michael Taylor LS (703) 635-3060, 12/2021

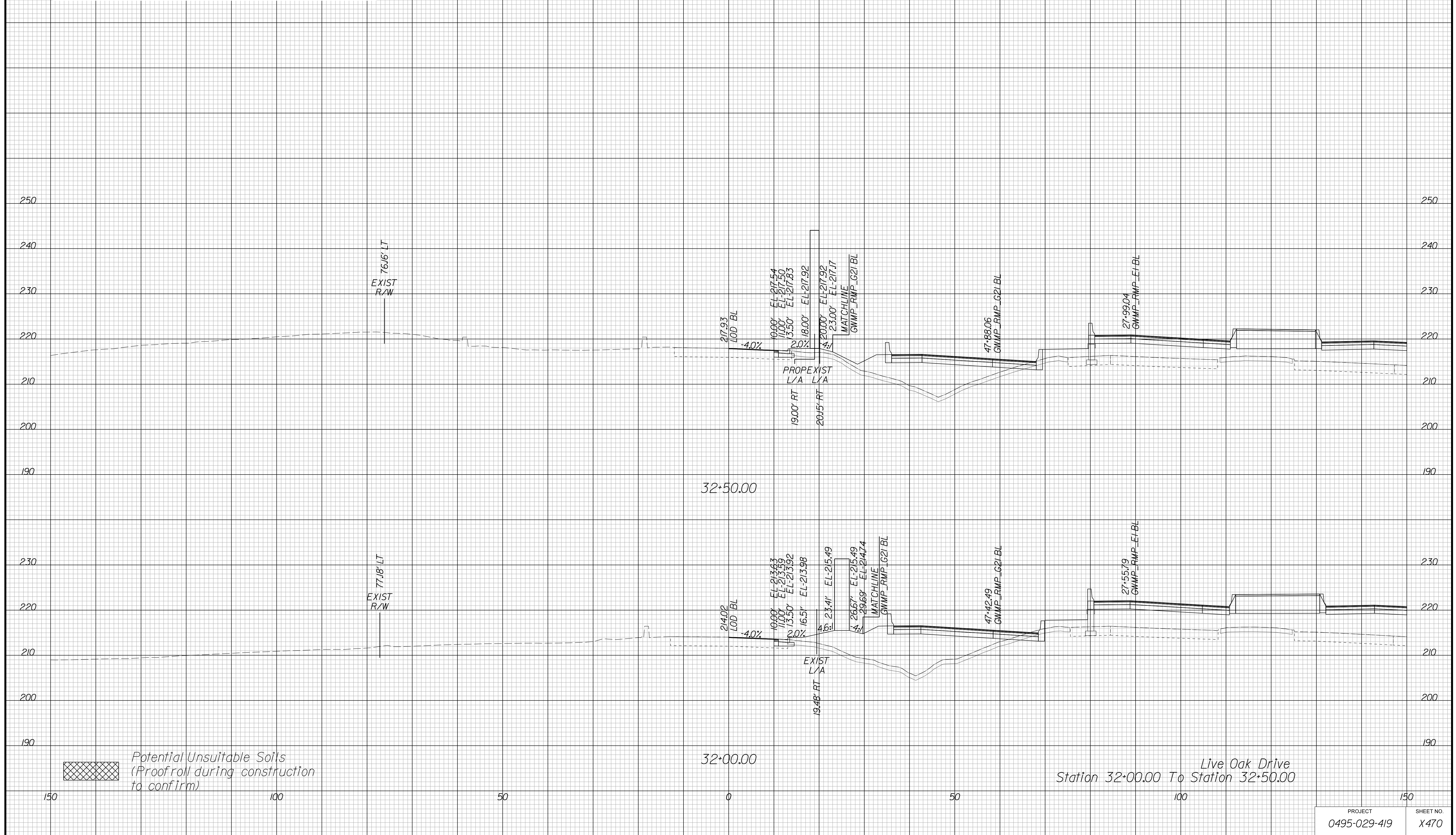
CROSS SECTIONS

SCALE 1 IN. = 10 FT

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

REVISED	STATE	ROUTE	STATE	PROJECT	SHEET NO.
	VA.	495		0495-029-419	X470 AREA 4

Cross Section Labels Are Pertinent Only To The Roadway Associated To The Alignment In Focus. For Labels On Other Roadway See The Appropriate Cross Section Sheet.



Live Oak Drive
Station 32+00.00 To Station 32+50.00

PROJECT	SHEET NO.
0495-029-419	X470

APPROVED FOR CONSTRUCTION

PROJECT MANAGER VDOT - Bimbal Stab PE (703) 259-2362
SURVEYED BY DATE BDA - Nicholas Kougoulis LS (703) 334-0837, 12/2021
DESIGN BY BDA - Darrell Eischer BE (703) 334-0823, Dawberly - Ron Jakominich PE (703) 849-0651
SUBSURFACE UTILITY BY DATE Accurmark - Michael Taylor LS (703) 635-3060, 12/2021

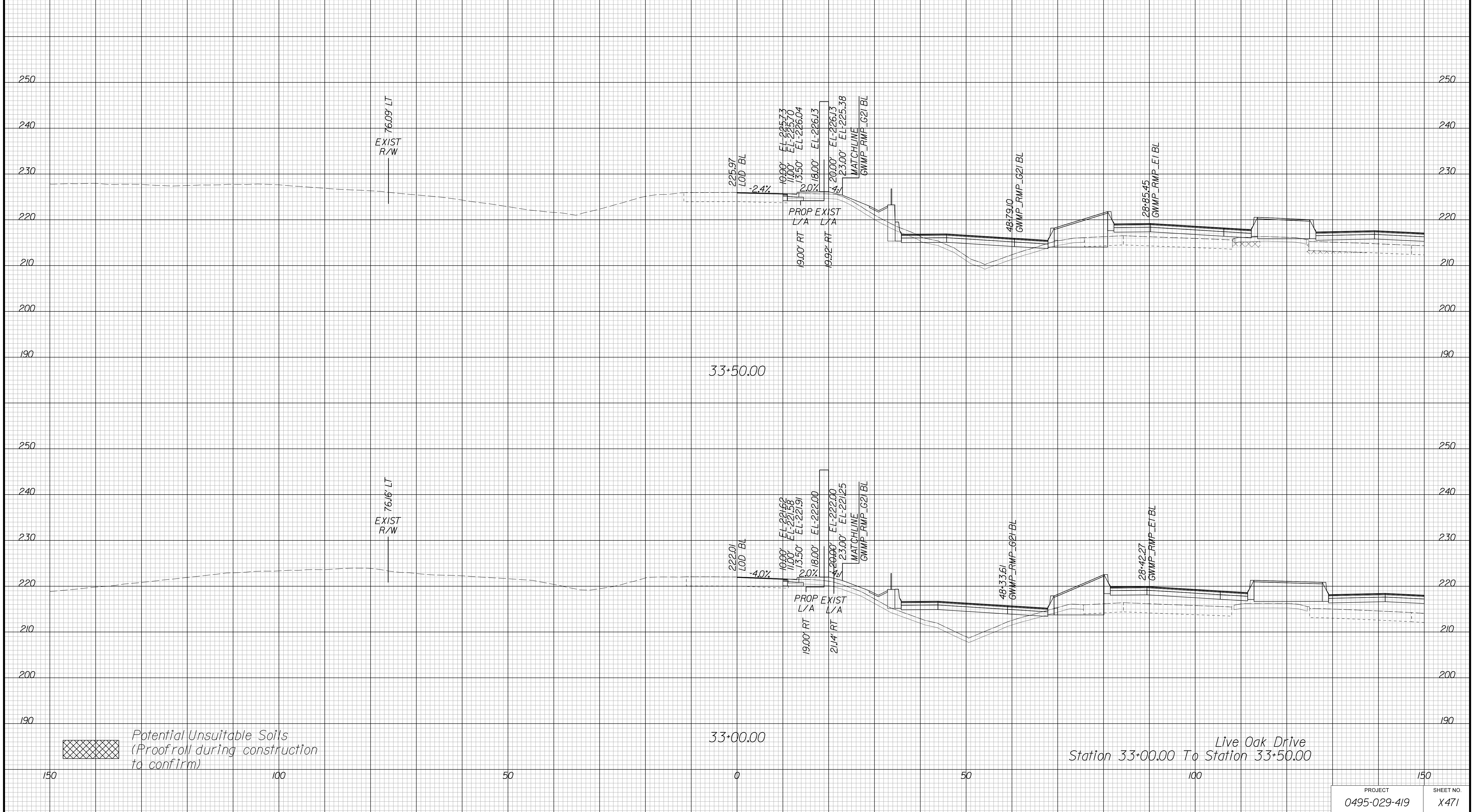
CROSS SECTIONS

SCALE 1 IN. = 10 FT

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

REVISION	STATE	ROUTE	STATE	PROJECT	SHEET NO.
	VA.	495		0495-029-419	X471 AREA 4

Cross Section Labels Are Pertinent Only To The Roadway Associated To The Alignment In Focus. For Labels On Other Roadway See The Appropriate Cross Section Sheet.



PROJECT	SHEET NO.
0495-029-419	X471

APPROVED FOR CONSTRUCTION

PROJECT MANAGER VDOT - Bimbal Stab PE (703) 259-2362
SURVEYED BY DATE BDA - Nicholas Kougoulis LS (703) 334-0837, 12/2021
DESIGN BY BDA - Darrell Eischer BE (703) 334-0823, Dewberry - Ron Jakominich PE (703) 849-0651
SUBSURFACE UTILITY BY DATE Accurmark - Michael Taylor LS (703) 635-3060, 12/2021

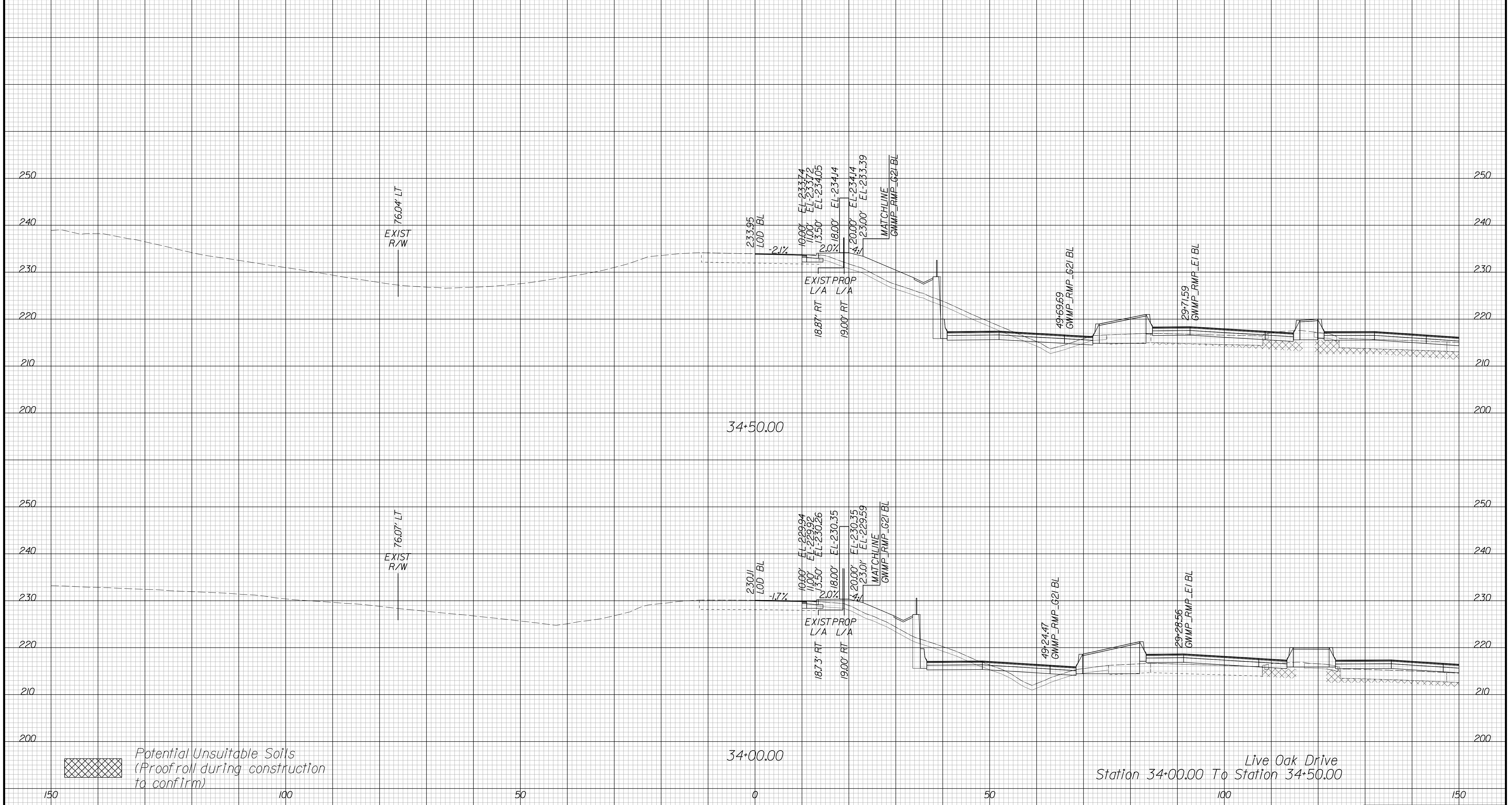
CROSS SECTIONS

SCALE 1 IN. = 10 FT

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

REVISED	STATE	ROUTE	STATE PROJECT	SHEET NO.
	VA.	495	0495-029-419	X472 AREA 4

Cross Section Labels Are Pertinent Only To The Roadway Associated To The Alignment In Focus. For Labels On Other Roadway See The Appropriate Cross Section Sheet.



Live Oak Drive
Station 34+00.00 To Station 34+50.00

PROJECT	SHEET NO.
0495-029-419	X472

APPROVED FOR CONSTRUCTION

PROJECT MANAGER VDOT - Bipal Stab PE (703) 259-2362
SURVEYED BY, DATE BDA - Nicholas Kougoulis LS (703) 334-0837, 12/2021
DESIGN BY BDA - Darrell Eischer BE (703) 334-0823, Dewberry - Ron Jakominich PE (703) 849-0651
SUBSURFACE UTILITY BY, DATE Accurmark - Michael Taylor LS (703) 635-3060, 12/2021

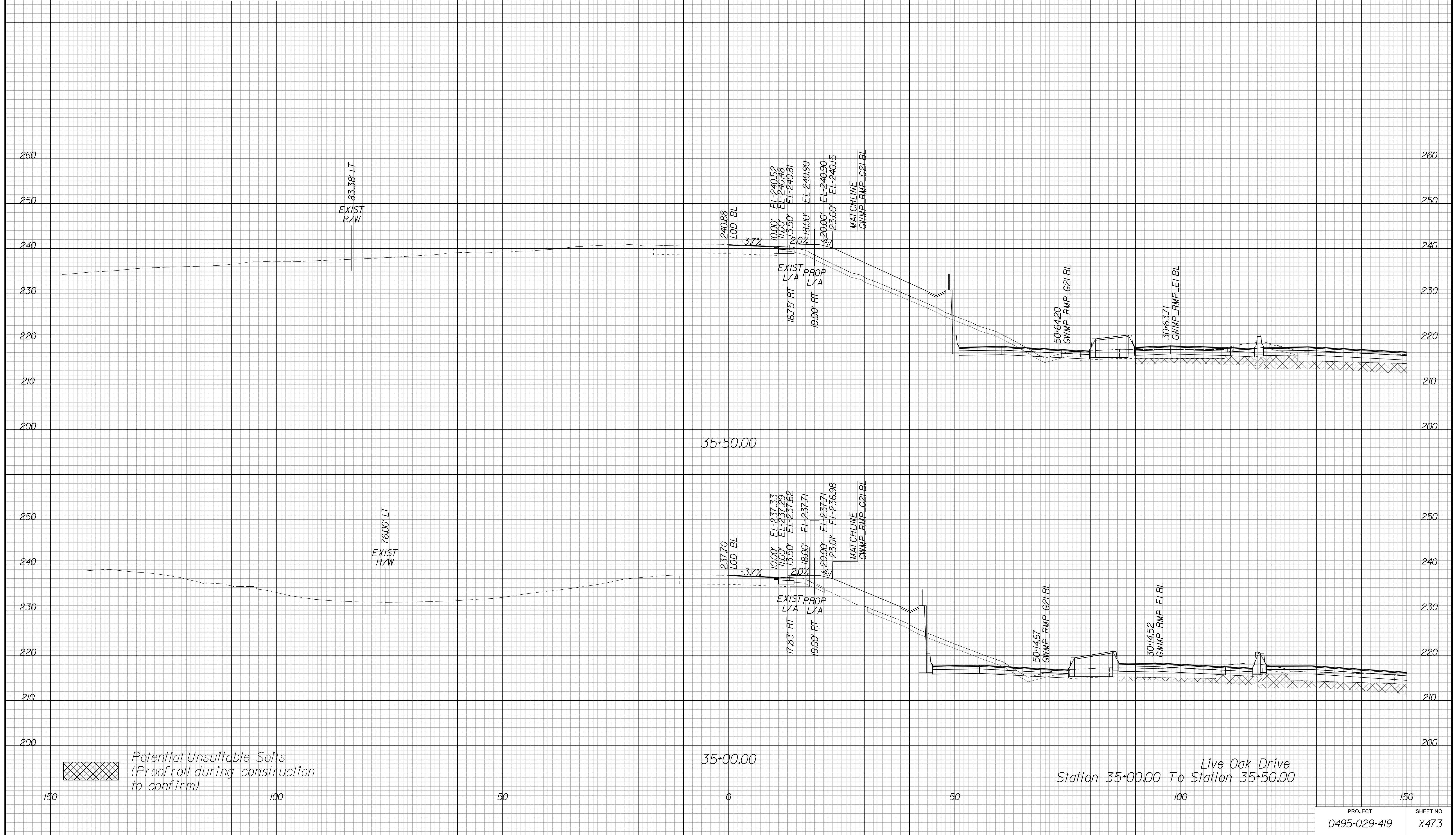
CROSS SECTIONS

SCALE 1 IN. = 10 FT

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

REVISED	STATE	ROUTE	STATE PROJECT	SHEET NO.
	VA.	495	0495-029-419	X473 AREA 4

Cross Section Labels Are Pertinent Only To The Roadway Associated To The Alignment In Focus. For Labels On Other Roadway See The Appropriate Cross Section Sheet.



Live Oak Drive
Station 35+00.00 To Station 35+50.00

PROJECT	SHEET NO.
0495-029-419	X473

APPROVED FOR CONSTRUCTION

PROJECT MANAGER VDOT - Bimbal Stab PE (703) 259-2362
SURVEYED BY DATE BDA - Nicholas Kougoulis LS (703) 334-0837, 12/2021
DESIGN BY BDA - Darrell Eischer BE (703) 334-0823, Dawbercy - Ron Jakominich PE (703) 849-0651
SUBSURFACE UTILITY BY DATE Accurmark - Michael Taylor LS (703) 635-3060, 12/2021

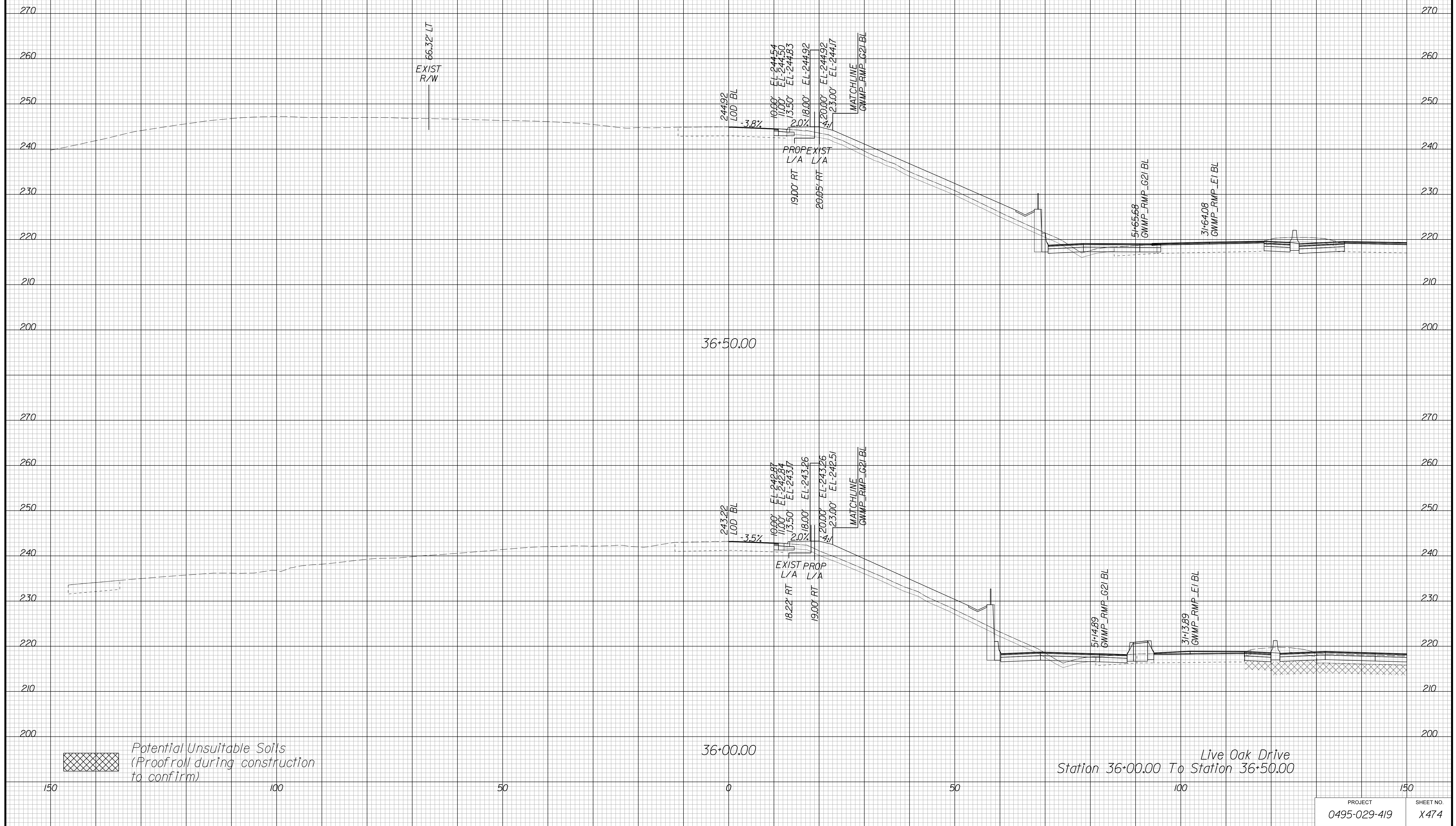
CROSS SECTIONS

SCALE 1 IN. = 10 FT

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

REVISION	STATE	ROUTE	STATE	PROJECT	SHEET NO.
	VA.	495		0495-029-419	X474 AREA 4

Cross Section Labels Are Pertinent Only To The Roadway Associated To The Alignment In Focus. For Labels On Other Roadway See The Appropriate Cross Section Sheet.



APPROVED FOR CONSTRUCTION

PROJECT MANAGER VDOT - Bimbal Stab PE (703) 259-2362
SURVEYED BY, DATE BDA - Nicholas Kougoulis LS (703) 334-0837, 12/2021
DESIGN BY BDA - Darrell Eischer BE (703) 334-0823, Dewberry - Ron Jakominich PE (703) 849-0651
SUBSURFACE UTILITY BY, DATE Accurmark - Michael Taylor LS (703) 635-3060, 12/2021

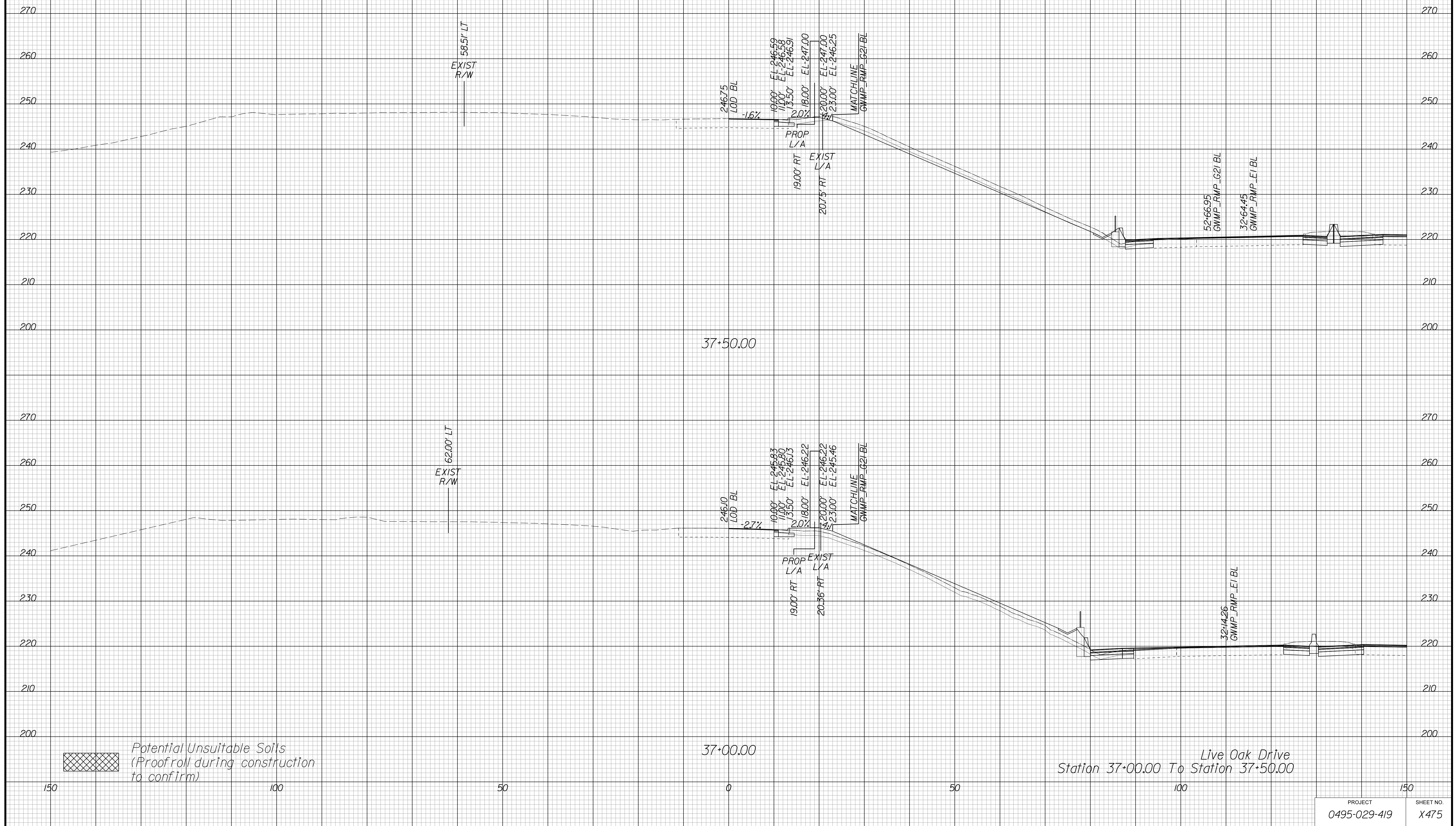
CROSS SECTIONS

SCALE 1 IN. = 10 FT

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

REVIS	STATE	ROUTE	STATE	PROJECT	SHEET NO.
	VA.	495		0495-029-419	X475 AREA 4

Cross Section Labels Are Pertinent Only To The Roadway Associated To The Alignment In Focus. For Labels On Other Roadway See The Appropriate Cross Section Sheet.



APPROVED FOR CONSTRUCTION

PROJECT MANAGER VDOT - Bipal Stab PE (703) 259-2362
SURVEYED BY, DATE BDA - Nicholas Kougoulis LS (703) 334-0837, 12/2021
DESIGN BY BDA - Darrell Eischer BE (703) 334-0823, Dawbercy - Ron Jakominich PE (703) 849-0651
SUBSURFACE UTILITY BY, DATE Accurmark - Michael Taylor LS (703) 635-3060, 12/2021

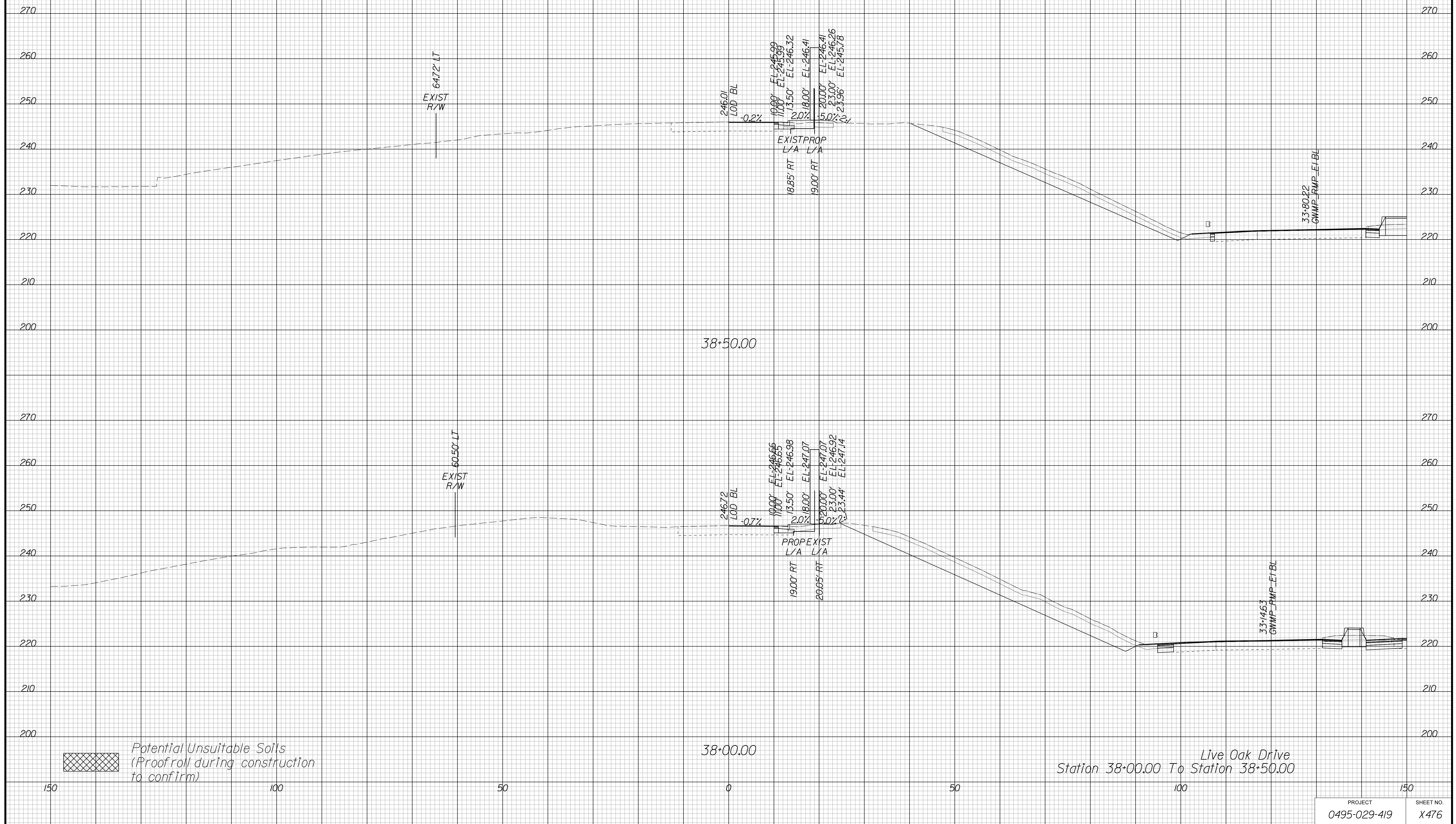
CROSS SECTIONS

SCALE 1 IN. = 10 FT

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

REVISED	STATE	ROUTE	STATE	PROJECT	SHEET NO.
	VA.	495		0495-029-419	X476 AREA 4

Cross Section Labels Are Pertinent Only To The Roadway Associated To The Alignment In Focus. For Labels On Other Roadway See The Appropriate Cross Section Sheet.



APPROVED FOR CONSTRUCTION

PROJECT MANAGER VDOT - Bimbal Stab PE (703) 259-2362
SURVEYED BY DATE BDA - Nicholas Kougoulis LS (703) 334-0837, 12/2021
DESIGN BY BDA - Darrell Eischer BE (703) 334-0823, Dexberry - Ron Jakominich PE (703) 849-0651
SUBSURFACE UTILITY BY DATE Accurmark - Michael Taylor LS (703) 635-3060, 12/2021

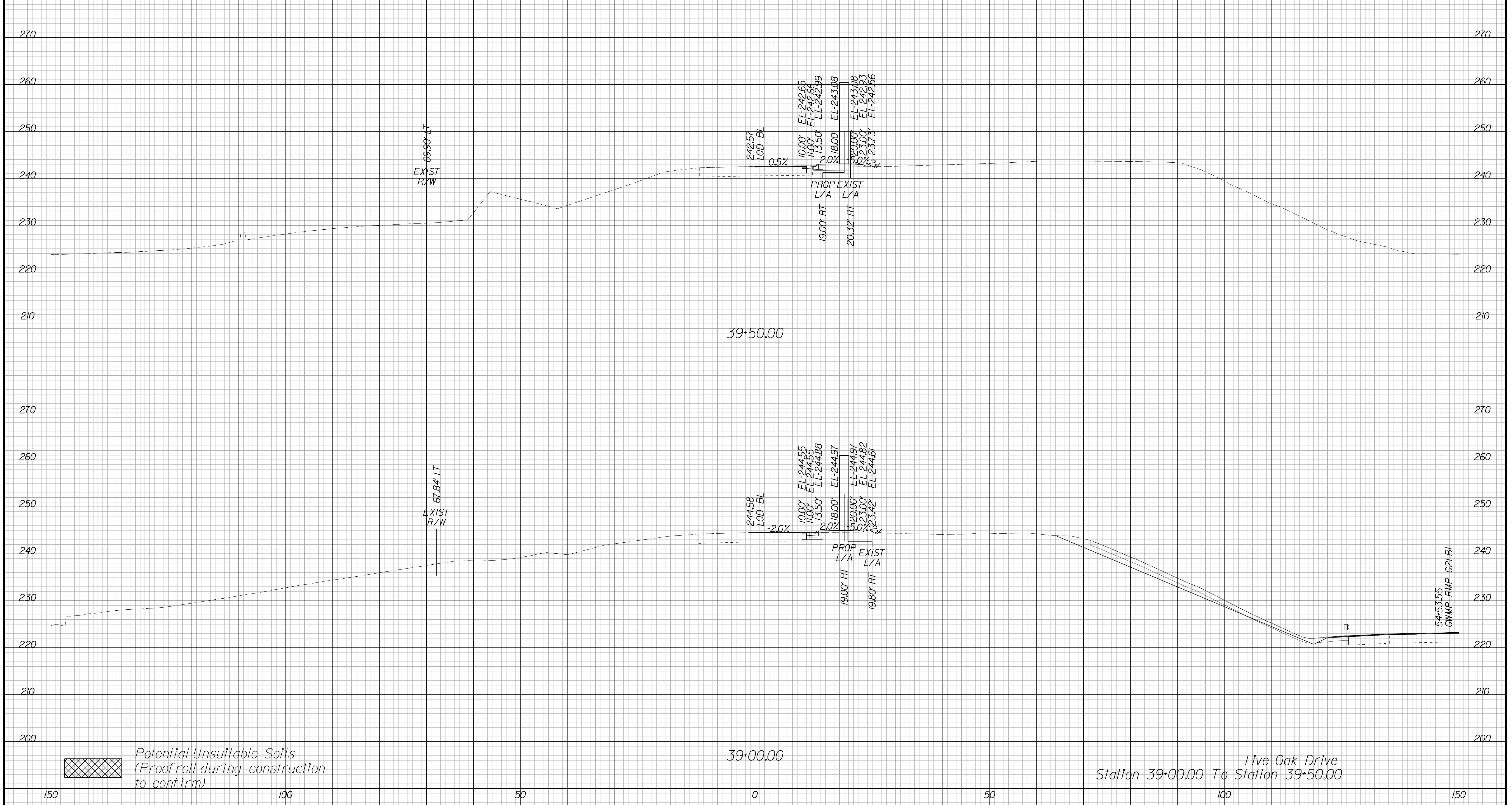
CROSS SECTIONS

SCALE 1 IN. = 10 FT

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

REVISED	STATE	ROUTE	STATE	PROJECT	SHEET NO.
	VA.	495		0495-029-419	X477 AREA 4

Cross Section Labels Are Pertinent Only To The Roadway Associated To The Alignment In Focus. For Labels On Other Roadway See The Appropriate Cross Section Sheet.



PROJECT	SHEET NO.
0495-029-419	X477

APPROVED FOR CONSTRUCTION

PROJECT MANAGER VDOT - Bimbal Stab PE (703) 259-2362
SURVEYED BY, DATE BDA - Nicholas Kougoulis LS (703) 334-0837, 12/2021
DESIGN BY BDA - Darrell Eischer BE (703) 334-0823, Dexberry - Ron Jakominich PE (703) 849-0651
SUBSURFACE UTILITY BY, DATE Accurmark - Michael Taylor LS (703) 635-3060, 12/2021

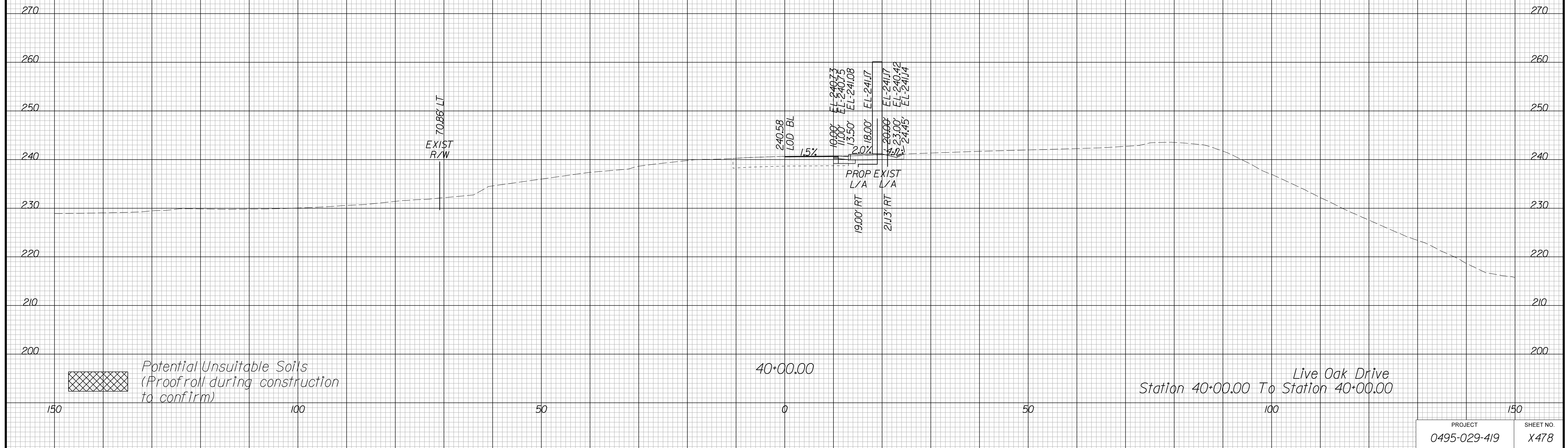
CROSS SECTIONS

SCALE 1 IN. = 10 FT

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

REVISED	STATE		STATE		SHEET NO.
	ROUTE	PROJECT	PROJECT	PROJECT	
	VA.	495	0495-029-419		X478 AREA 4

*Cross Section Labels Are Pertinent Only To The Roadway
Associated To The Alignment In Focus. For Labels On Other
Roadway See The Appropriate Cross Section Sheet.*



PROJECT 0495-029-419	SHEET NO. X478
-------------------------	-------------------

APPROVED FOR CONSTRUCTION

PROJECT MANAGER VDOT - Bimbal Stab PE (703) 259-2362
SURVEYED BY, DATE BDA - Nicholas Kougoulis LS (703) 334-0837, 12/2021
DESIGN BY BDA - Darrell Eischer BE (703) 334-0823, Dawbercy - Ron Jakominich PE (703) 849-0651
SUBSURFACE UTILITY BY, DATE Accurmark - Michael Taylor LS (703) 635-3060, 12/2021

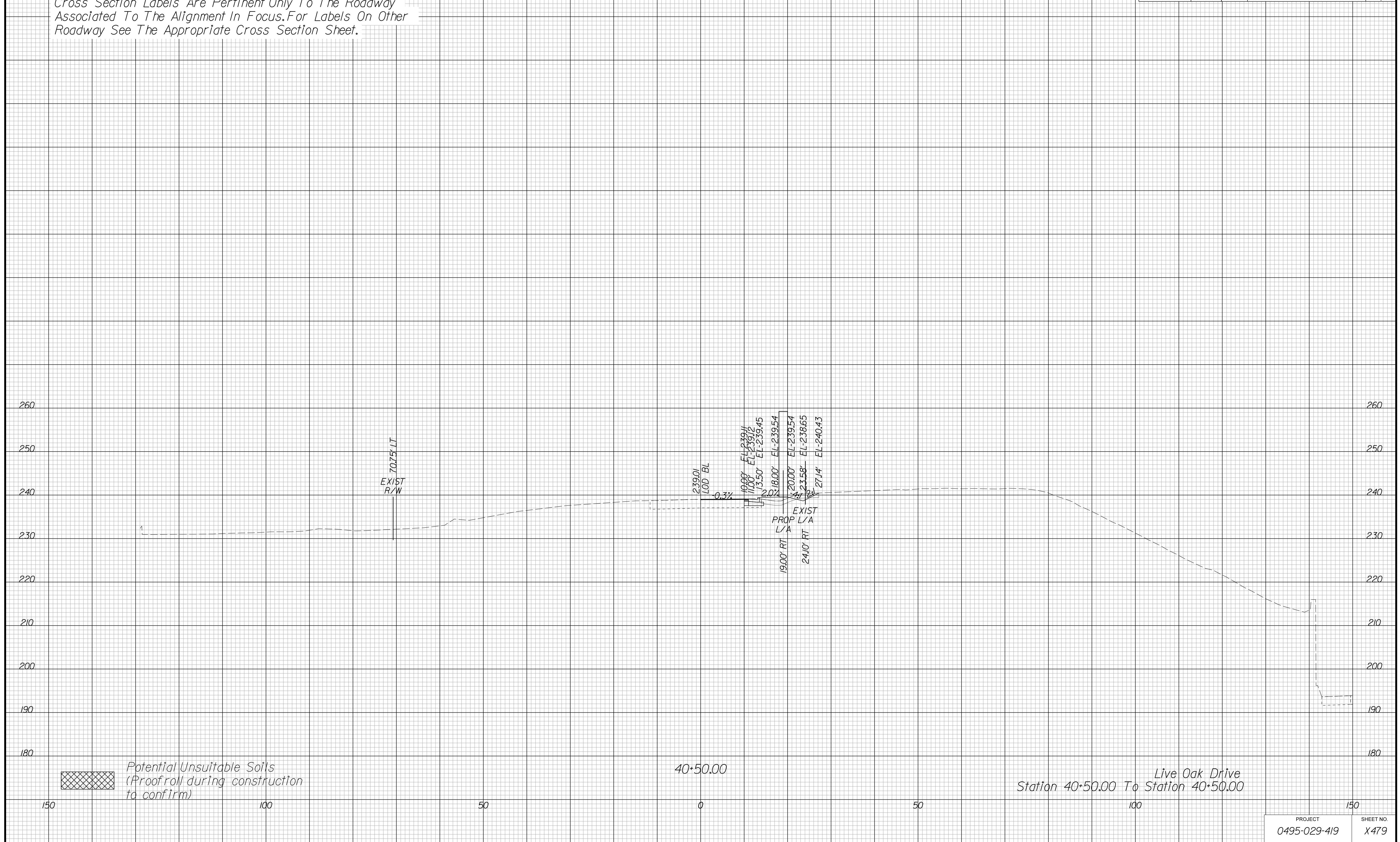
CROSS SECTIONS

SCALE 1 IN. = 10 FT

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

REVISED	STATE	ROUTE	STATE	PROJECT	SHEET NO.
	VA.	495		0495-029-419	X479 AREA 4

Cross Section Labels Are Pertinent Only To The Roadway Associated To The Alignment In Focus. For Labels On Other Roadway See The Appropriate Cross Section Sheet.



APPROVED FOR CONSTRUCTION

PROJECT	SHEET NO.
0495-029-419	X479

PROJECT MANAGER VDOT - Bimbal Stab PE (703) 259-2362
SURVEYED BY, DATE BDA - Nicholas Kougoulis LS (703) 334-0837, 12/2021
DESIGN BY BDA - Darrell Eischer BE (703) 334-0823, Dewberry - Ron Jakominich PE (703) 849-0651
SUBSURFACE UTILITY BY, DATE Accurmark - Michael Taylor LS (703) 635-3060, 12/2021

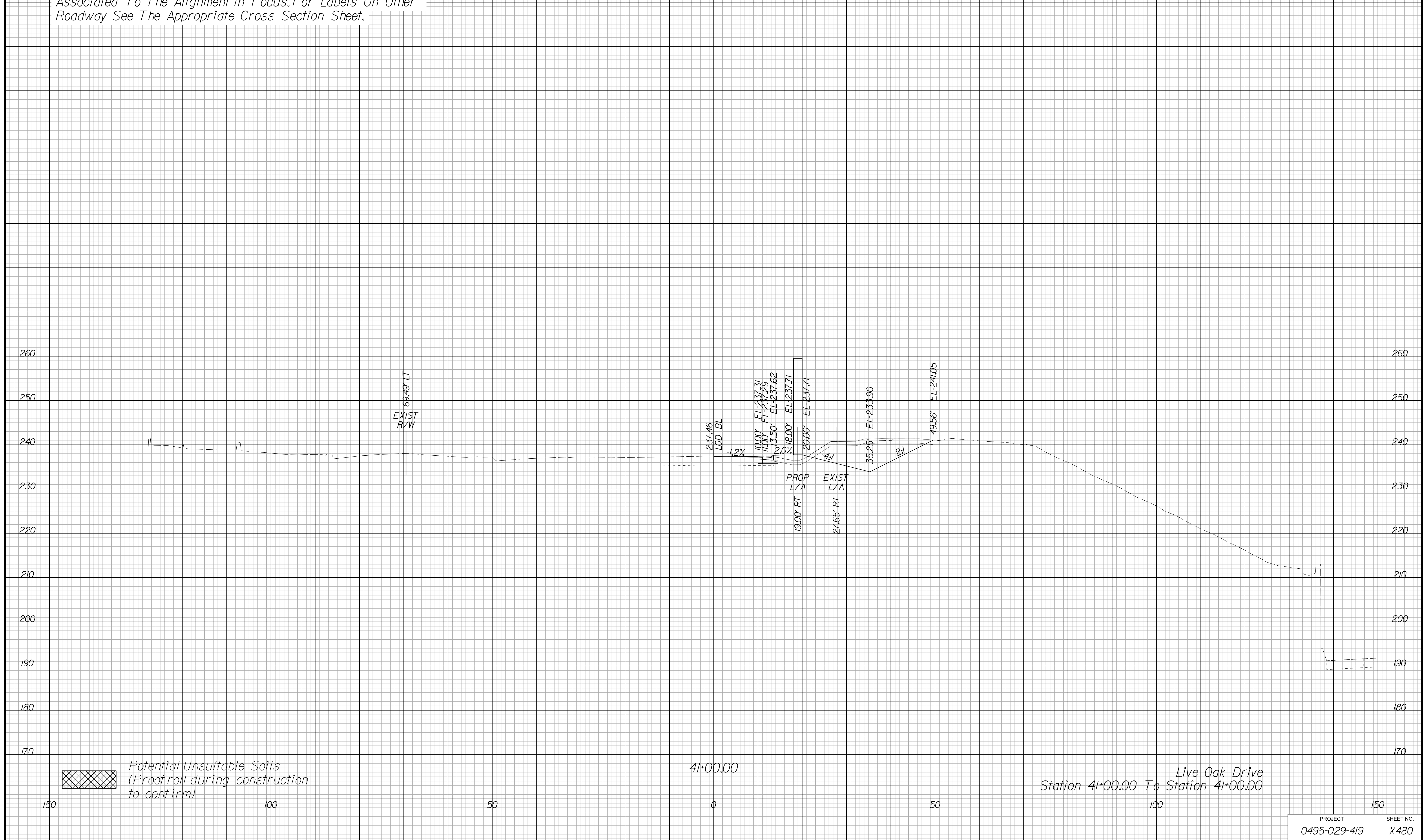
CROSS SECTIONS

SCALE 1 IN. = 10 FT

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

REVISED	STATE	ROUTE	STATE	PROJECT	SHEET NO.
	VA.	495		0495-029-419	X480 AREA 4

Cross Section Labels Are Pertinent Only To The Roadway Associated To The Alignment In Focus. For Labels On Other Roadway See The Appropriate Cross Section Sheet.



PROJECT	SHEET NO.
0495-029-419	X480

APPROVED FOR CONSTRUCTION

PROJECT MANAGER VDOT - Bimbal Stab PE (703) 259-2362
SURVEYED BY, DATE BDA - Nicholas Kougoulis LS (703) 334-0837, 12/2021
DESIGN BY BDA - Darrell Eischer BE (703) 334-0823, Daxbery - Ron Jakominich PE (703) 849-0651
SUBSURFACE UTILITY BY, DATE Accurmark - Michael Taylor LS (703) 635-3060, 12/2021

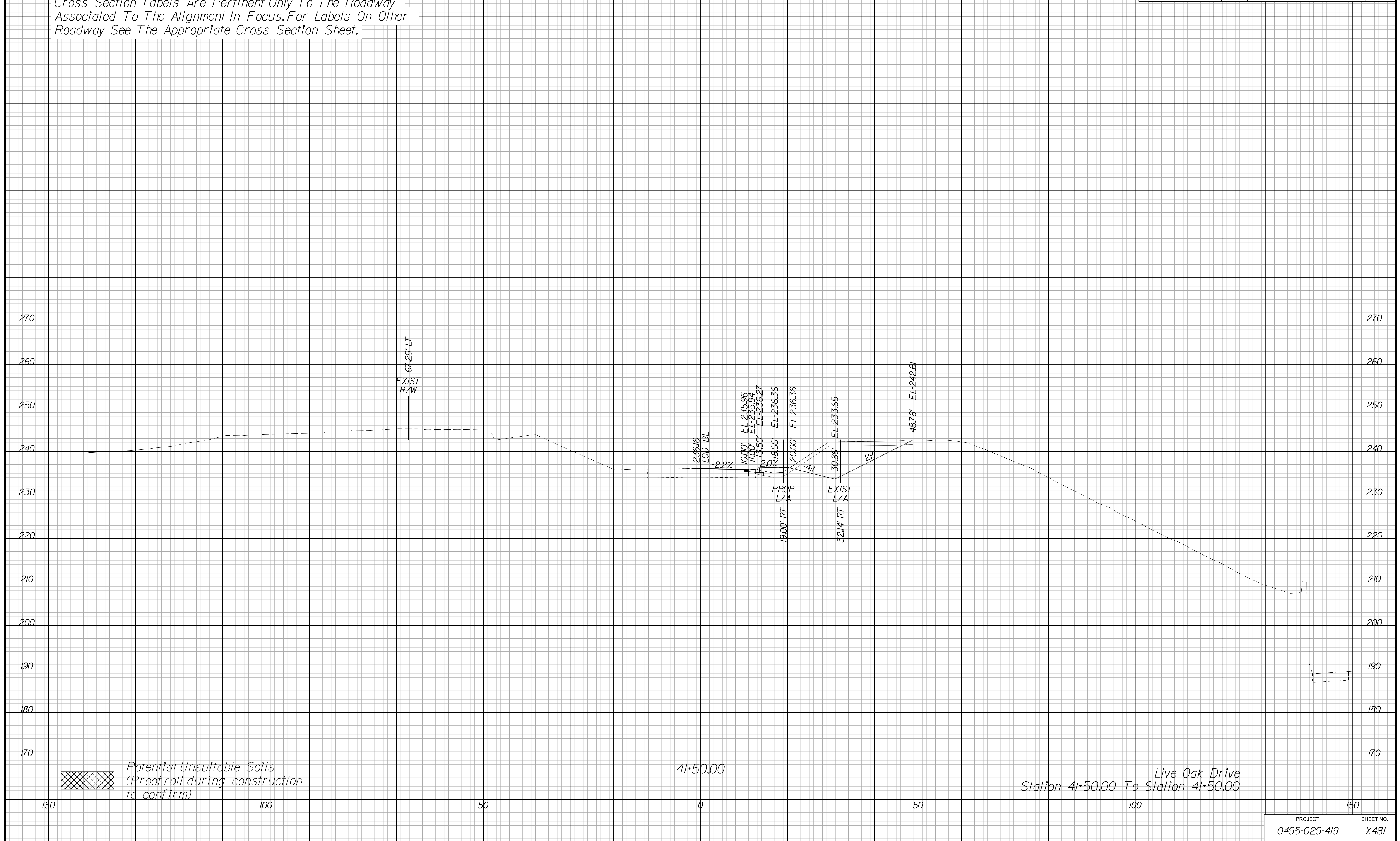
CROSS SECTIONS

SCALE 1 IN. = 10 FT

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

REVISED	STATE	ROUTE	STATE	PROJECT	SHEET NO.
	VA.	495		0495-029-419	X481 AREA 4

Cross Section Labels Are Pertinent Only To The Roadway Associated To The Alignment In Focus. For Labels On Other Roadway See The Appropriate Cross Section Sheet.



APPROVED FOR CONSTRUCTION

PROJECT MANAGER VDOT - Bimbal Stab PE (703) 259-2362
SURVEYED BY DATE BDA - Nicholas Kougoulis LS (703) 334-0837, 12/2021
DESIGN BY BDA - Darrell Eischer BE (703) 334-0823, Dawbercy - Ron Jakominich PE (703) 849-0651
SUBSURFACE UTILITY BY DATE Accurmark - Michael Taylor LS (703) 635-3060, 12/2021

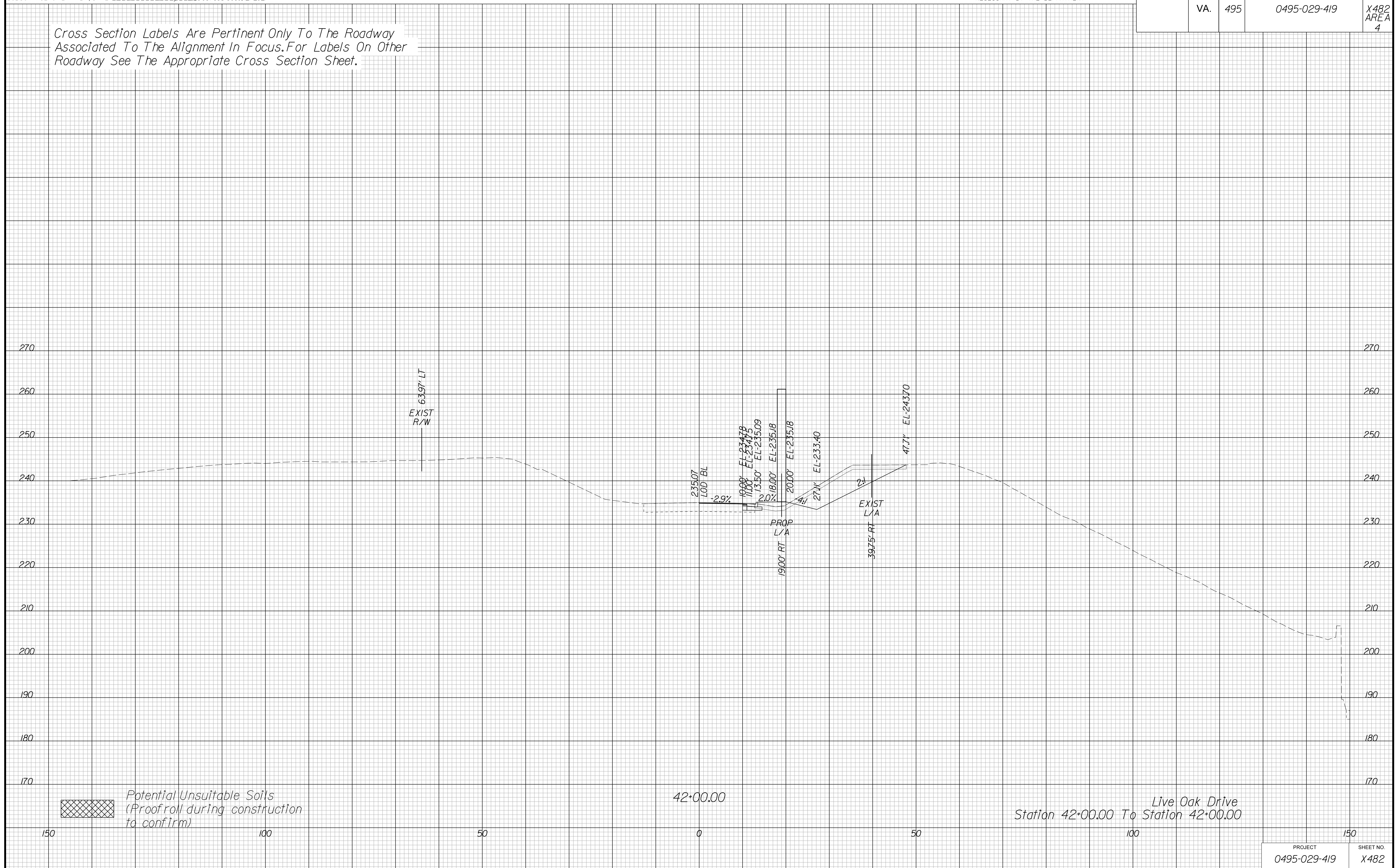
CROSS SECTIONS

SCALE 1 IN. = 10 FT

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

REVISED	STATE	ROUTE	STATE PROJECT	SHEET NO.
	VA.	495	0495-029-419	X482 AREA 4

Cross Section Labels Are Pertinent Only To The Roadway Associated To The Alignment In Focus. For Labels On Other Roadway See The Appropriate Cross Section Sheet.



PROJECT	SHEET NO.
0495-029-419	X482

APPROVED FOR CONSTRUCTION

PROJECT MANAGER VDOT - Bipal Stab PE (703) 259-2362
SURVEYED BY, DATE BDA - Nicholas Kougoulis LS (703) 334-0837, 12/2021
DESIGN BY BDA - Darrell Elischer BE (703) 334-0823, Dawbergy - Ron Jakominich PE (703) 849-0651
SUBSURFACE UTILITY BY, DATE Accurmark - Michael Taylor LS (703) 635-3060, 12/2021

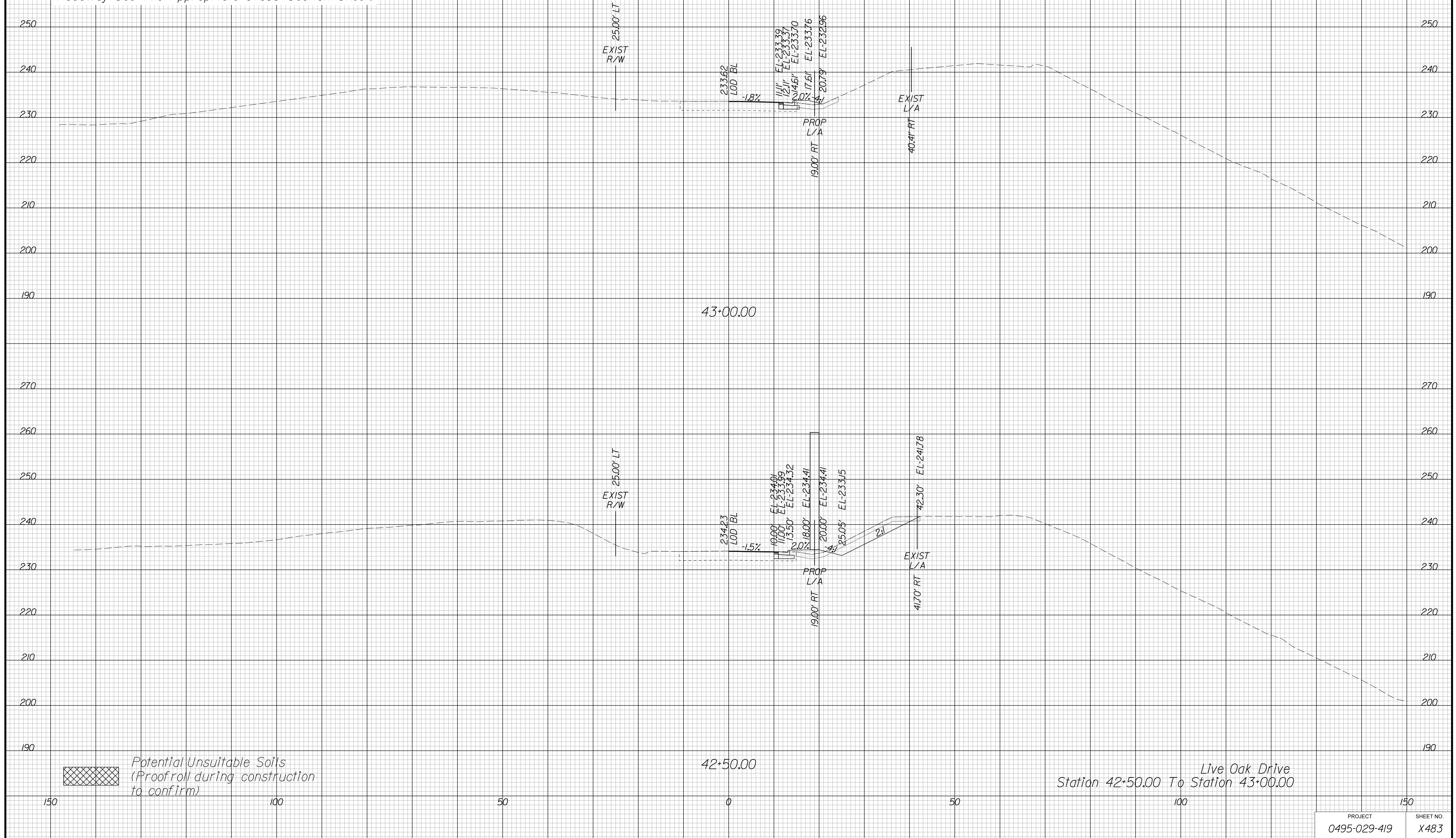
CROSS SECTIONS

SCALE 1 IN. = 10 FT

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

REVISED	STATE	ROUTE	STATE	PROJECT	SHEET NO.
	VA.	495		0495-029-419	X483 AREA 4

Cross Section Labels Are Pertinent Only To The Roadway Associated To The Alignment In Focus. For Labels On Other Roadway See The Appropriate Cross Section Sheet.



APPROVED FOR CONSTRUCTION

PROJECT MANAGER VDOT - Bimbal Stab PE (703) 259-2362
SURVEYED BY, DATE BDA - Nicholas Kougoulis LS (703) 334-0837, 12/2021
DESIGN BY BDA - Darrell Eischer BE (703) 334-0823, Dewberry - Ron Jakominich PE (703) 849-0651
SUBSURFACE UTILITY BY, DATE Accurmark - Michael Taylor LS (703) 635-3060, 12/2021

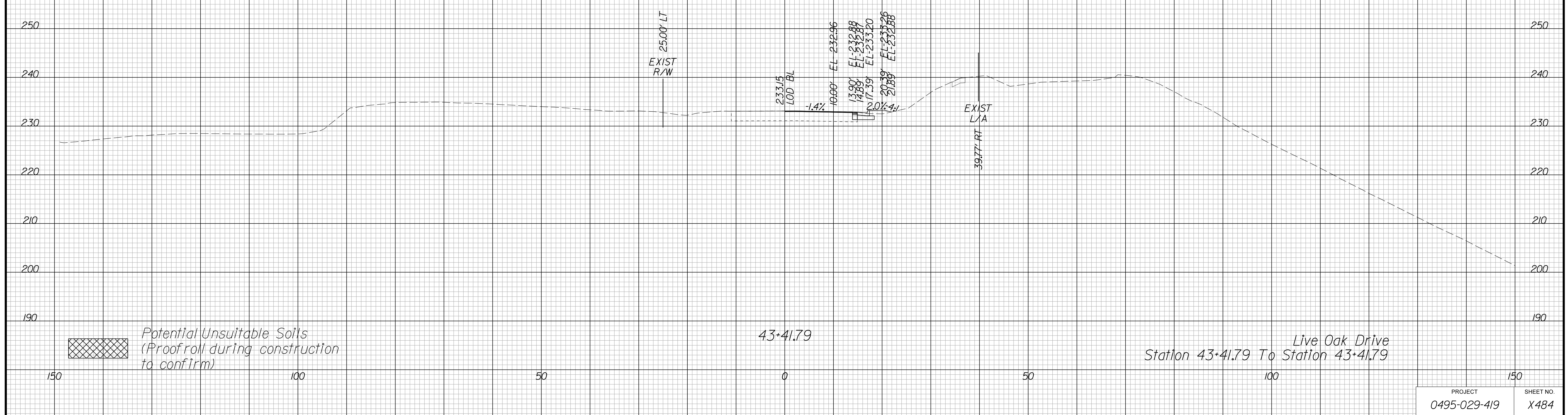
CROSS SECTIONS

SCALE 1 IN. = 10 FT

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

REVISED	STATE	ROUTE	STATE PROJECT	SHEET NO.
	VA.	495	0495-029-419	X484 AREA 4

Cross Section Labels Are Pertinent Only To The Roadway Associated To The Alignment In Focus. For Labels On Other Roadway See The Appropriate Cross Section Sheet.



PROJECT	SHEET NO.
0495-029-419	X484

APPROVED FOR CONSTRUCTION

PROJECT MANAGER VDOT - Bimbal Stab PE (703) 259-2362
SURVEYED BY DATE BDA - Nicholas Kougioulis LS (703) 334-0837, 12/2021
DESIGN BY BDA - Darrell Eischer BE (703) 334-0823, Dexberry - Ron Jakominich PE (703) 849-0651
SUBSURFACE UTILITY BY DATE Accurmark - Michael Taylor LS (703) 635-3060, 12/2021

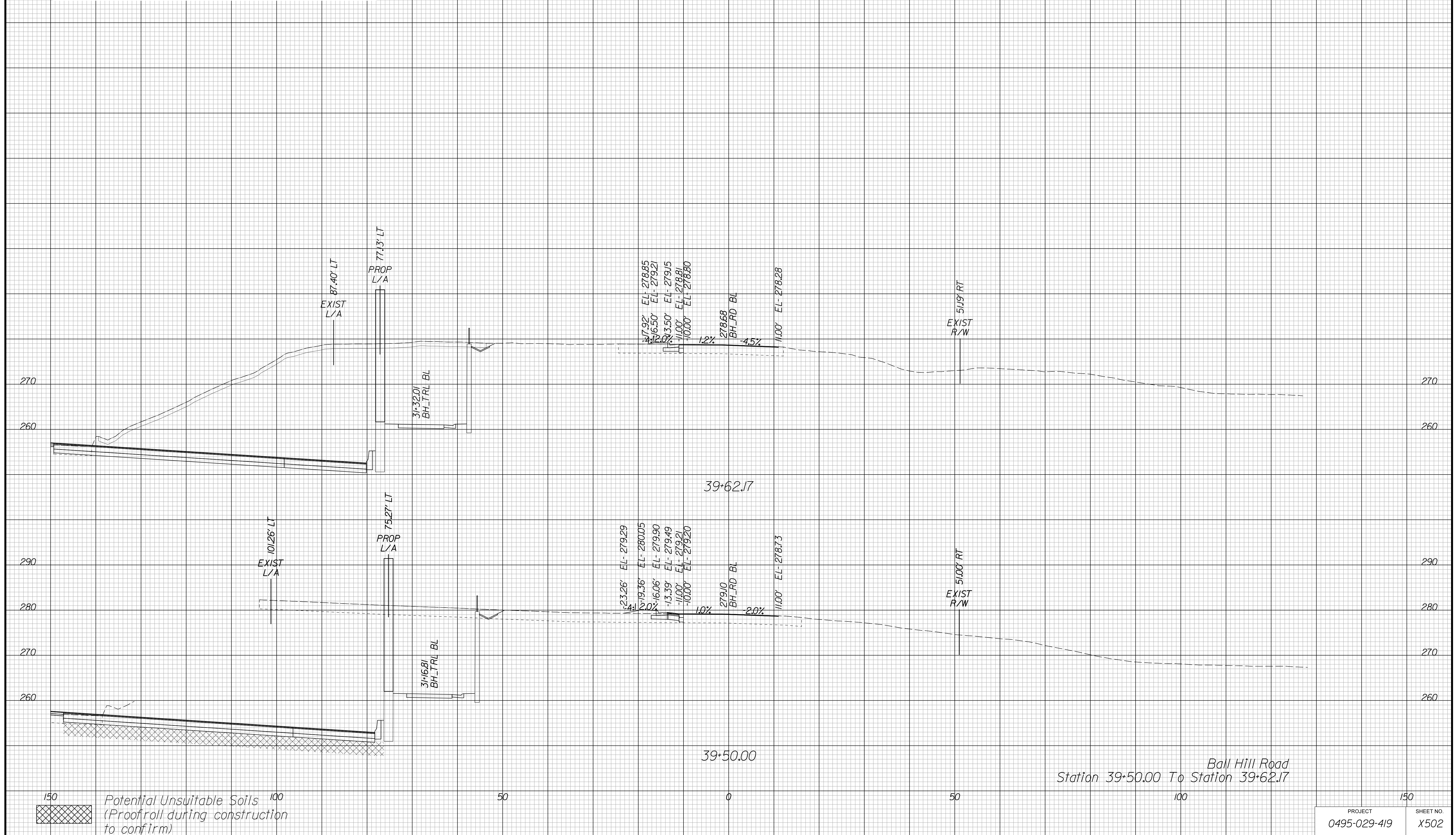
CROSS SECTIONS

SCALE 1 IN. = 10 FT

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

REVISED	STATE	ROUTE	STATE	PROJECT	SHEET NO.
	VA.	495		0495-029-419	X502 AREA 4

Cross Section Labels Are Pertinent Only To The Roadway Associated To The Alignment In Focus. For Labels On Other Roadway See The Appropriate Cross Section Sheet.



APPROVED FOR CONSTRUCTION

PROJECT MANAGER VDOT - Bimbal Stab PE (703) 259-2362
SURVEYED BY, DATE BDA - Nicholas Kougoulis LS (703) 334-0837, 12/2021
DESIGN BY BDA - Darrell Eischer BE (703) 334-0823, Dexberry - Ron Jakominich PE (703) 849-0651
SUBSURFACE UTILITY BY, DATE Accurmark - Michael Taylor LS (703) 635-3060, 12/2021

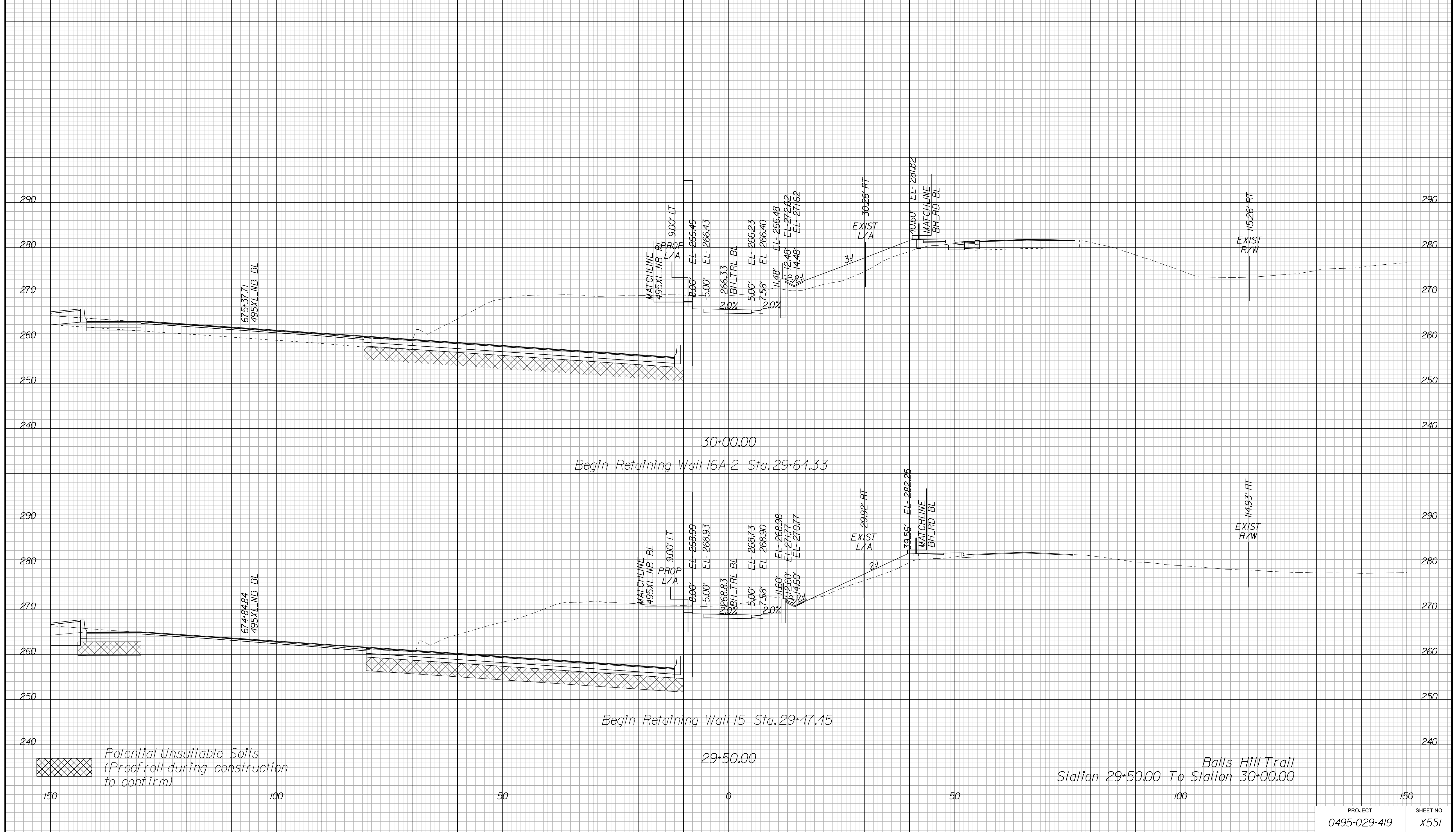
CROSS SECTIONS

SCALE 1 IN. = 10 FT

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

REVISION	STATE	ROUTE	STATE PROJECT	SHEET NO.
	VA.	495	0495-029-419	X551/AREA 4

Cross Section Labels Are Pertinent Only To The Roadway Associated To The Alignment In Focus. For Labels On Other Roadway See The Appropriate Cross Section Sheet.



APPROVED FOR CONSTRUCTION

PROJECT MANAGER VDOT - Bimbal Stab PE (703) 259-2362
SURVEYED BY DATE BDA - Nicholas Kougoulis LS (703) 334-0837, 12/2021
DESIGN BY BDA - Darrell Eischer BE (703) 334-0823, Dexberry - Ron Jakominich PE (703) 849-0651
SUBSURFACE UTILITY BY DATE Accurmark - Michael Taylor LS (703) 635-3060, 12/2021

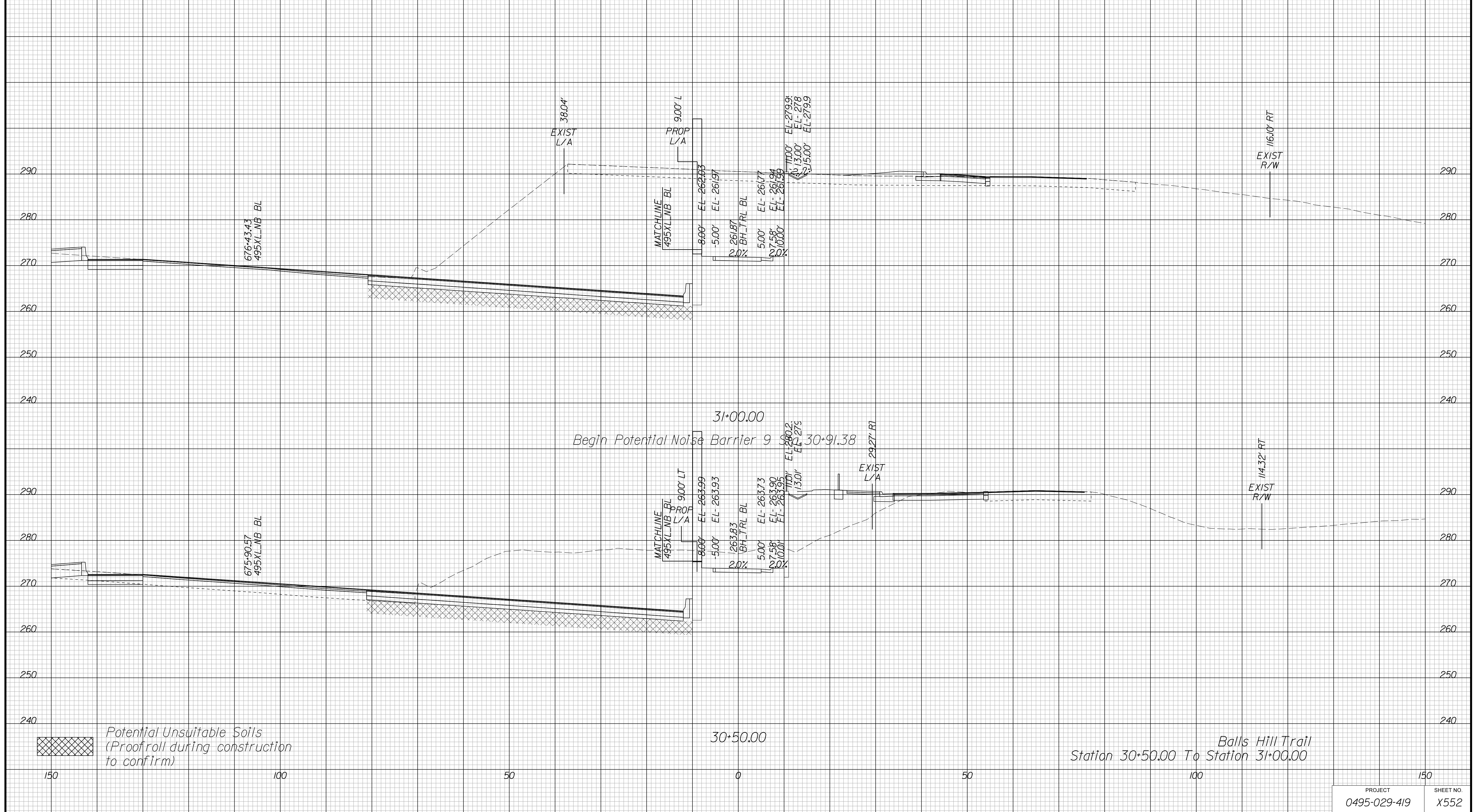
CROSS SECTIONS

SCALE 1 IN. = 10 FT

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

REVISED	STATE	ROUTE	STATE PROJECT	SHEET NO.
	VA.	495	0495-029-419	X552 AREA 4

Cross Section Labels Are Pertinent Only To The Roadway Associated To The Alignment In Focus. For Labels On Other Roadway See The Appropriate Cross Section Sheet.



APPROVED FOR CONSTRUCTION

PROJECT MANAGER VDOT - Bimbal Stab PE (703) 259-2362
SURVEYED BY DATE BDA - Nicholas Kougoulis LS (703) 334-0837, 12/2021
DESIGN BY BDA - Darrell Eischer BE (703) 334-0823, Daxberry - Ron Jakominich PE (703) 849-0651
SUBSURFACE UTILITY BY DATE Accurmark - Michael Taylor LS (703) 635-3060, 12/2021

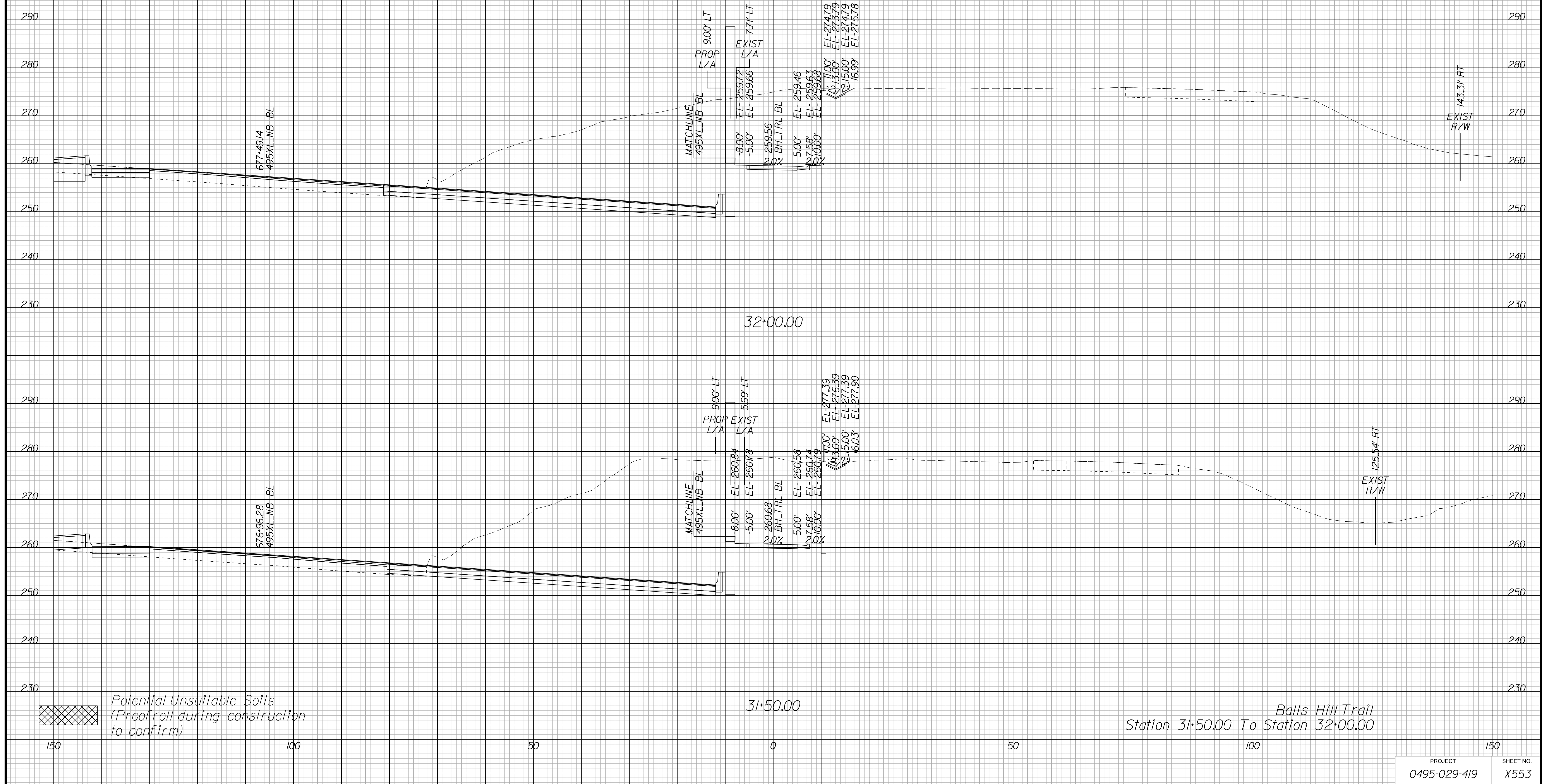
CROSS SECTIONS

SCALE 1 IN. = 10 FT

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

REVISION	STATE	ROUTE	STATE PROJECT	SHEET NO.
	VA.	495	0495-029-419	X553 AREA 4

Cross Section Labels Are Pertinent Only To The Roadway Associated To The Alignment In Focus. For Labels On Other Roadway See The Appropriate Cross Section Sheet.



APPROVED FOR CONSTRUCTION

PROJECT MANAGER VDOT - Bimbal Stab PE (703) 259-2362
SURVEYED BY, DATE BDA - Nicholas Kougoulis LS (703) 334-0837, 12/2021
DESIGN BY BDA - Darrell Eischer BE (703) 334-0823, Daxbery - Ron Jakominich PE (703) 849-0651
SUBSURFACE UTILITY BY, DATE Accurmark - Michael Taylor LS (703) 635-3060, 12/2021

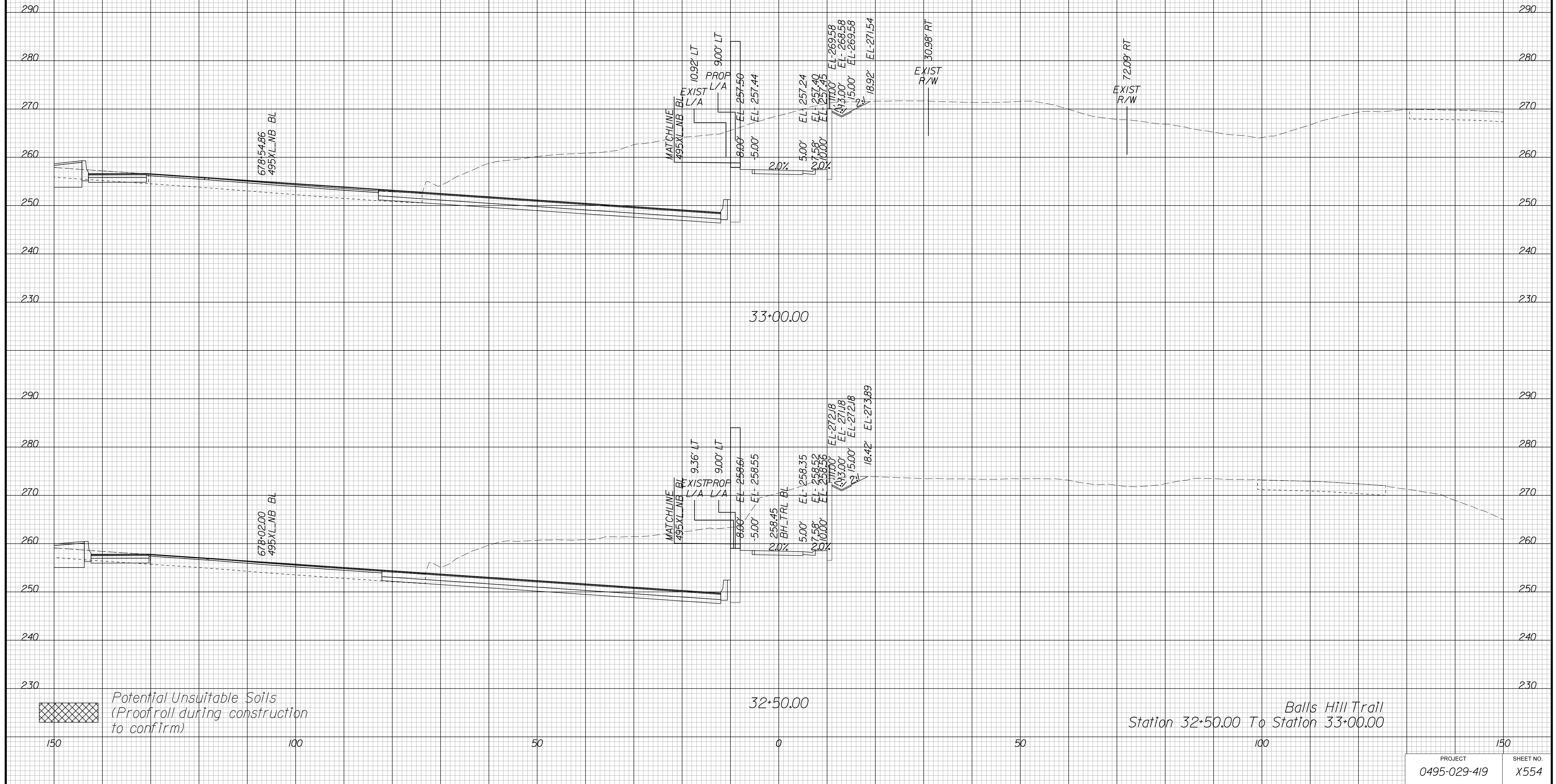
CROSS SECTIONS

SCALE 1 IN. = 10 FT

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

REVISION	STATE	ROUTE	STATE PROJECT	SHEET NO.
	VA.	495	0495-029-419	X554 AREA 4

Cross Section Labels Are Pertinent Only To The Roadway Associated To The Alignment In Focus. For Labels On Other Roadway See The Appropriate Cross Section Sheet.



APPROVED FOR CONSTRUCTION

PROJECT	SHEET NO.
0495-029-419	X554

PROJECT MANAGER VDOT - Bimbal Stab PE (703) 259-2362
SURVEYED BY DATE BDA - Nicholas Kougoulis LS (703) 334-0837, 12/2021
DESIGN BY BDA - Darrell Eischer BE (703) 334-0823, Dexberry - Ron Jakominich PE (703) 849-0651
SUBSURFACE UTILITY BY DATE Accurmark - Michael Taylor LS (703) 635-3060, 12/2021

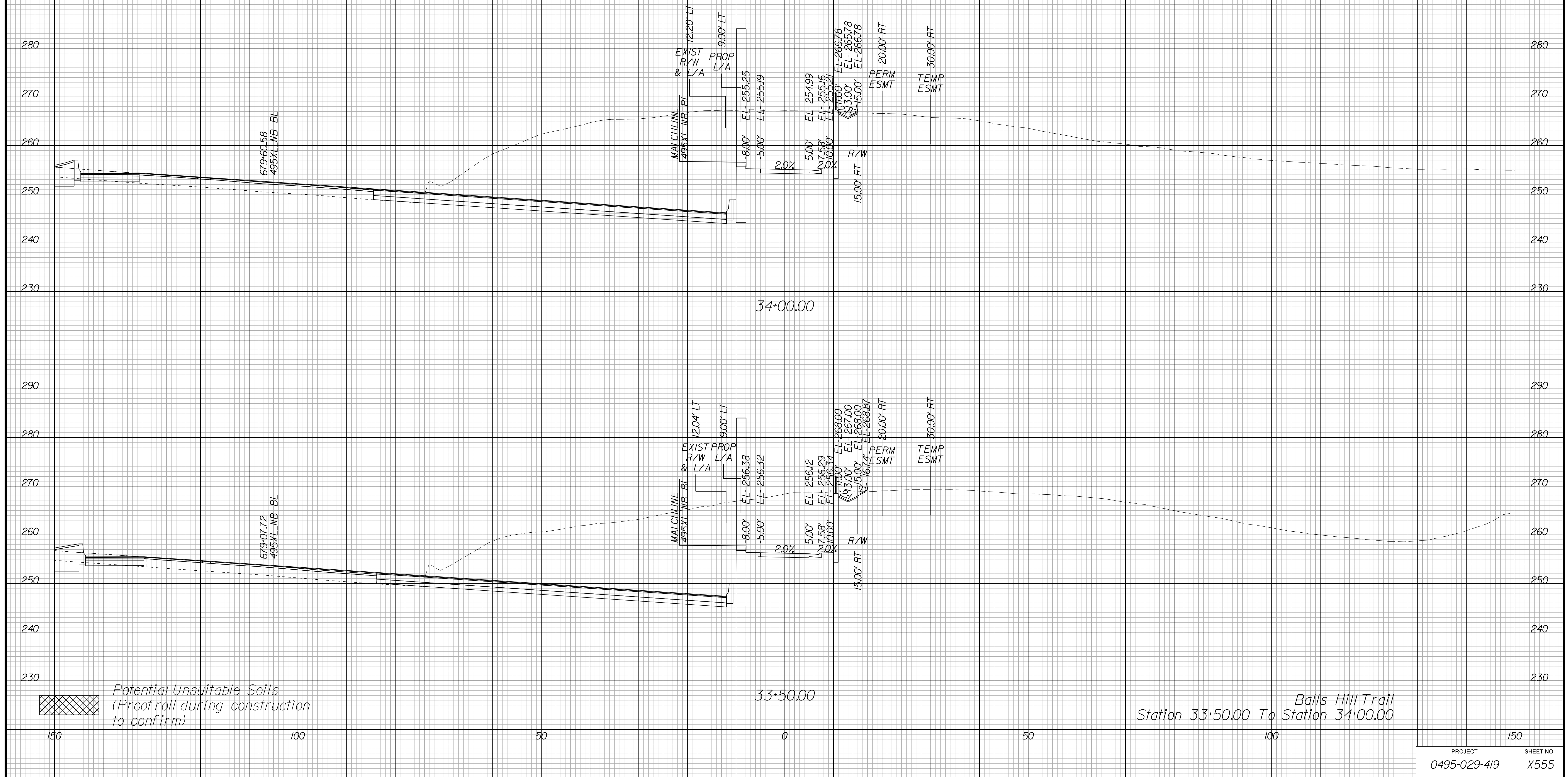
CROSS SECTIONS

SCALE 1 IN. = 10 FT

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

REVISED	STATE	ROUTE	STATE PROJECT	SHEET NO.
	VA.	495	0495-029-419	X555 AREA 4

Cross Section Labels Are Pertinent Only To The Roadway Associated To The Alignment In Focus. For Labels On Other Roadway See The Appropriate Cross Section Sheet.



*Balls Hill Trail
Station 33+50.00 To Station 34+00.00*

PROJECT	SHEET NO.
0495-029-419	X555

APPROVED FOR CONSTRUCTION

PROJECT MANAGER VDOT - Bimbal Stab PE (703) 259-2362
SURVEYED BY DATE BDA - Nicholas Kougoulis LS (703) 334-0837, 12/2021
DESIGN BY BDA - Darell Eischer BE (703) 334-0823, Dawbercy - Ron Jakominich PE (703) 849-0651
SUBSURFACE UTILITY BY DATE Accurmark - Michael Taylor LS (703) 635-3060, 12/2021

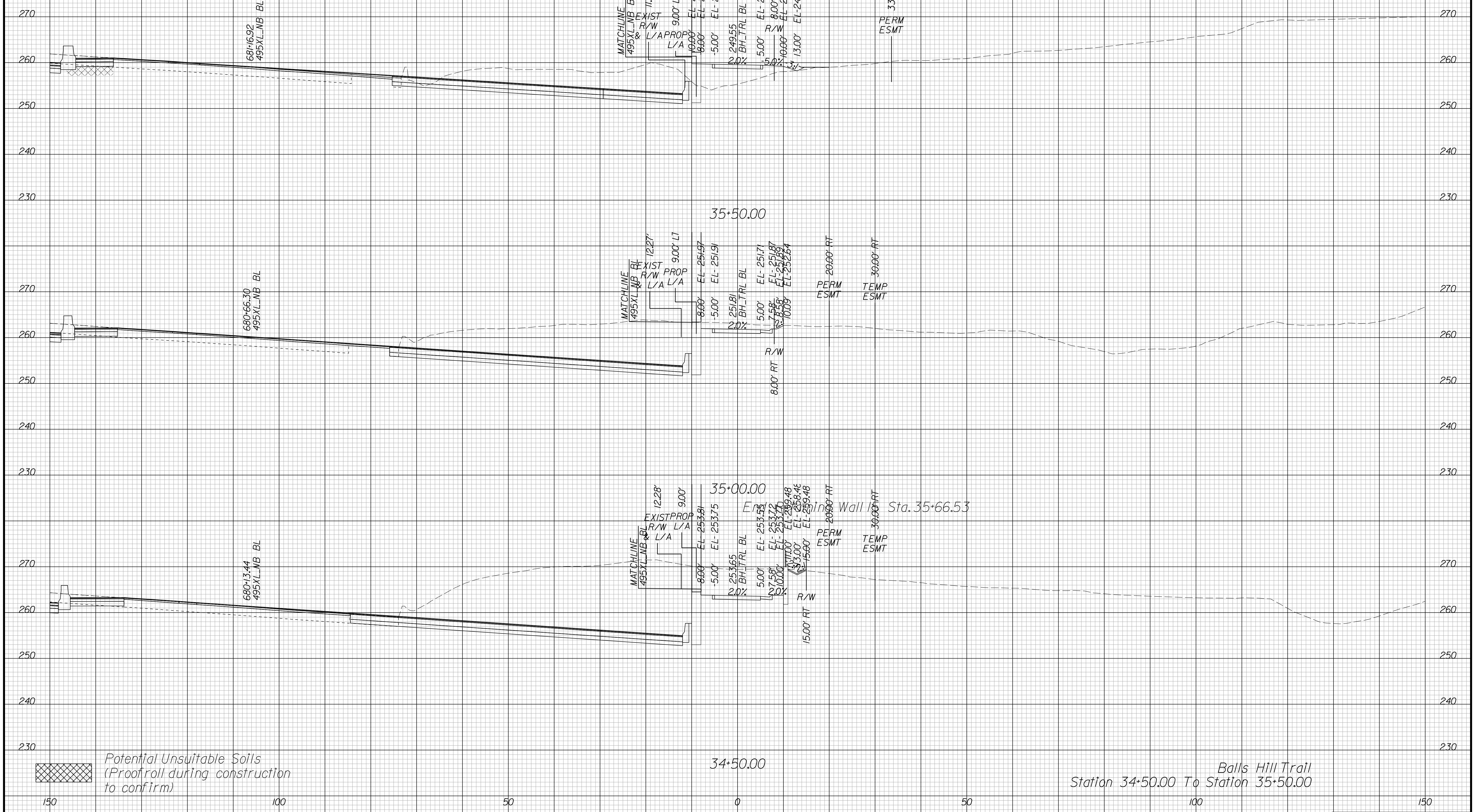
CROSS SECTIONS

SCALE 1 IN. = 10 FT

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

REVISED	STATE	ROUTE	STATE	PROJECT	SHEET NO.
	VA.	495		0495-029-419	X556 AREA 4

Cross Section Labels Are Pertinent Only To The Roadway Associated To The Alignment In Focus. For Labels On Other Roadway See The Appropriate Cross Section Sheet.



APPROVED FOR CONSTRUCTION

PROJECT MANAGER VDOT - Bipal Stab PE (703) 259-2362
SURVEYED BY, DATE BDA - Nicholas Kougoulis LS (703) 334-0837, 12/2021
DESIGN BY BDA - Darrell Eischer BE (703) 334-0823, Dexbery - Ron Jakominich PE (703) 849-0651
SUBSURFACE UTILITY BY, DATE Accurmark - Michael Taylor LS (703) 635-3060, 12/2021

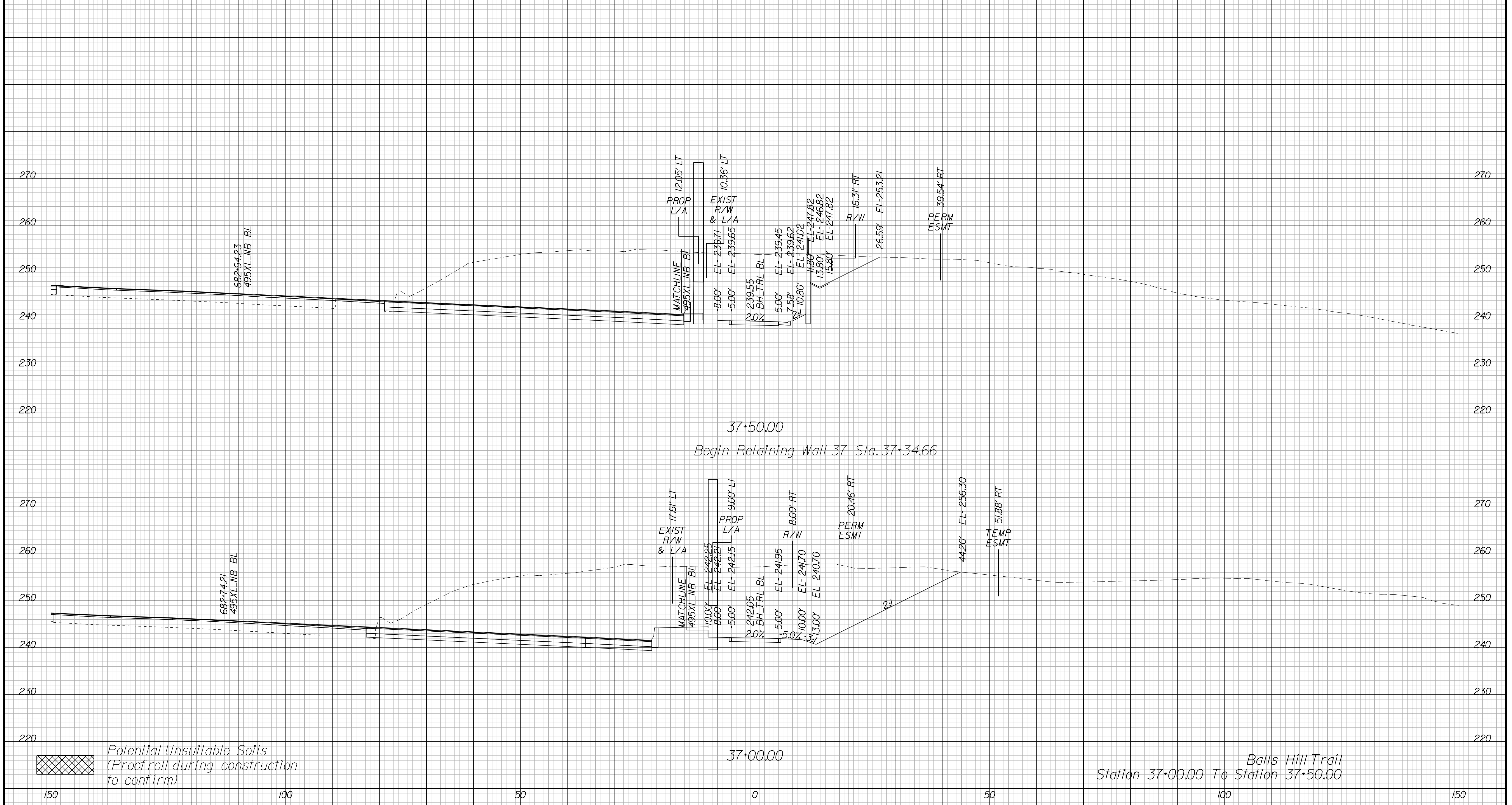
CROSS SECTIONS

SCALE 1 IN. = 10 FT

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

REVISED	STATE	ROUTE	STATE	PROJECT	SHEET NO.
	VA.	495		0495-029-419	X558 AREA 4

Cross Section Labels Are Pertinent Only To The Roadway Associated To The Alignment In Focus. For Labels On Other Roadway See The Appropriate Cross Section Sheet.



APPROVED FOR CONSTRUCTION

PROJECT MANAGER VDOT - Bimbal Stab PE (703) 259-2362
SURVEYED BY DATE BDA - Nicholas Kougoulis LS (703) 334-0837, 12/2021
DESIGN BY BDA - Darrell Eischer BE (703) 334-0823, Dexberry - Ron Jakominich PE (703) 849-0651
SUBSURFACE UTILITY BY DATE Accurmark - Michael Taylor LS (703) 635-3060, 12/2021

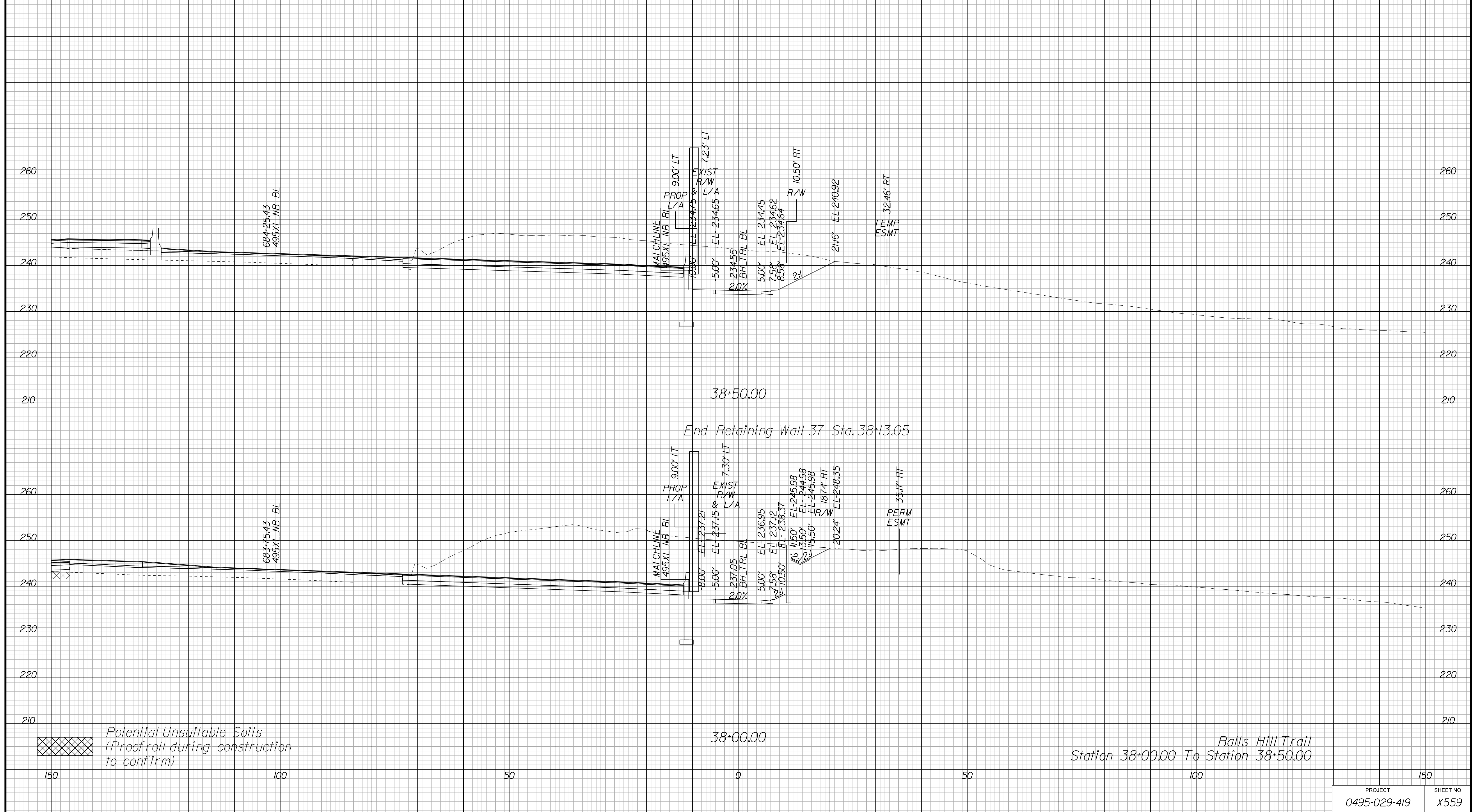
CROSS SECTIONS

SCALE 1 IN. = 10 FT

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

REVISED	STATE	ROUTE	STATE PROJECT	SHEET NO.
	VA.	495	0495-029-419	X559 AREA 4

Cross Section Labels Are Pertinent Only To The Roadway Associated To The Alignment In Focus. For Labels On Other Roadway See The Appropriate Cross Section Sheet.



APPROVED FOR CONSTRUCTION

PROJECT MANAGER VDOT - Bimbal Stab PE (703) 259-2362
SURVEYED BY, DATE BDA - Nicholas Kougoulis LS (703) 334-0837, 12/2021
DESIGN BY BDA - Darrell Eischer BE (703) 334-0823, Dewberry - Ron Jakominich PE (703) 849-0651
SUBSURFACE UTILITY BY, DATE Accurmark - Michael Taylor LS (703) 635-3060, 12/2021

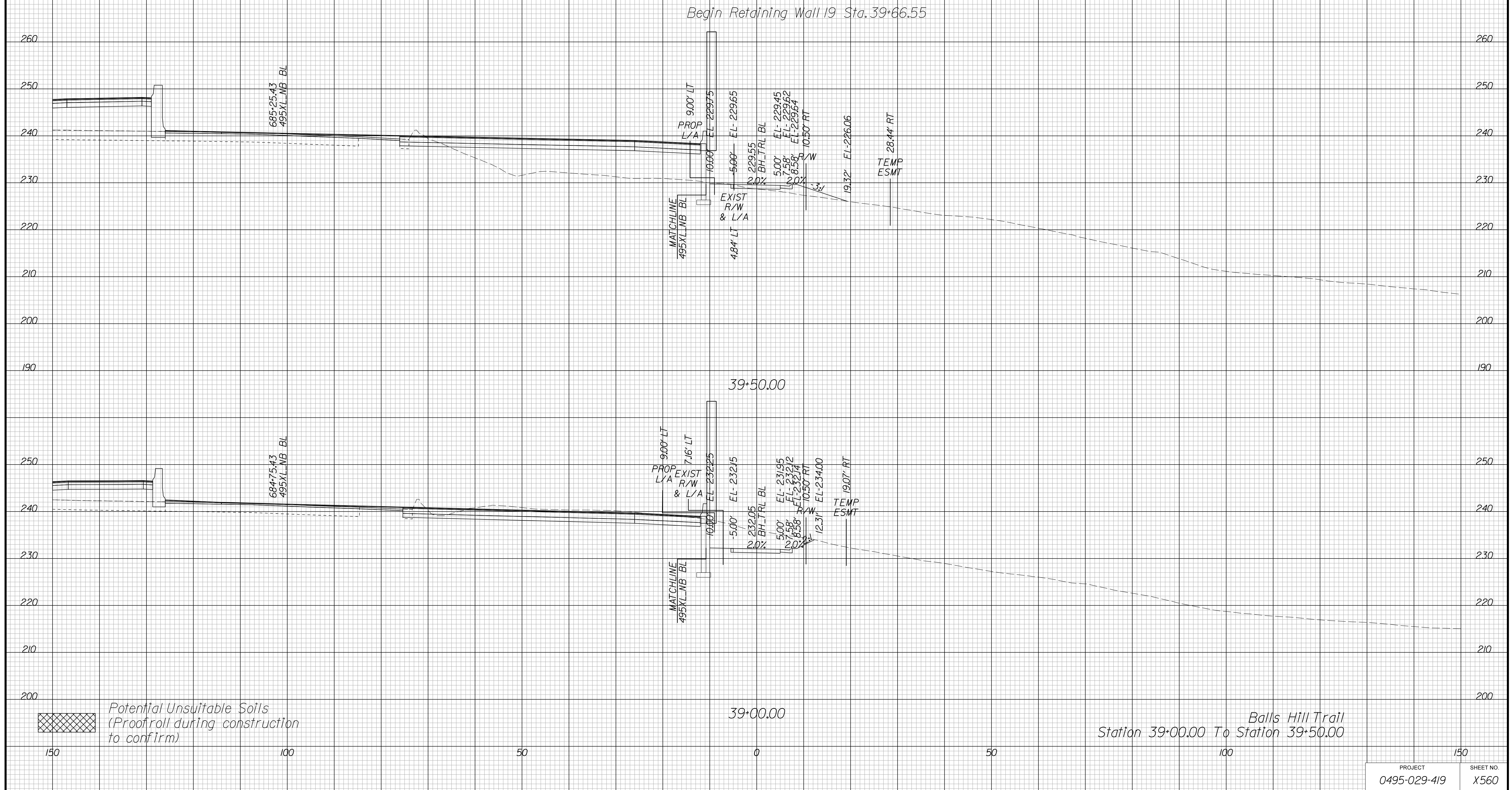
CROSS SECTIONS

SCALE 1 IN. = 10 FT

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

REVISED	STATE	ROUTE	STATE PROJECT	SHEET NO.
	VA.	495	0495-029-419	X560 AREA 4

Cross Section Labels Are Pertinent Only To The Roadway Associated To The Alignment In Focus. For Labels On Other Roadway See The Appropriate Cross Section Sheet.



APPROVED FOR CONSTRUCTION

PROJECT MANAGER VDOT - Bimpa Sab PE (703) 259-2362
SURVEYED BY, DATE BDA - Nicholas Kougoulis LS (703) 334-0837, 12/2021
DESIGN BY BDA - Darrell Eischer BE (703) 334-0823, Dexberry - Ron Jakominich PE (703) 849-0651
SUBSURFACE UTILITY BY, DATE Accurmark - Michael Taylor LS (703) 635-3060, 12/2021

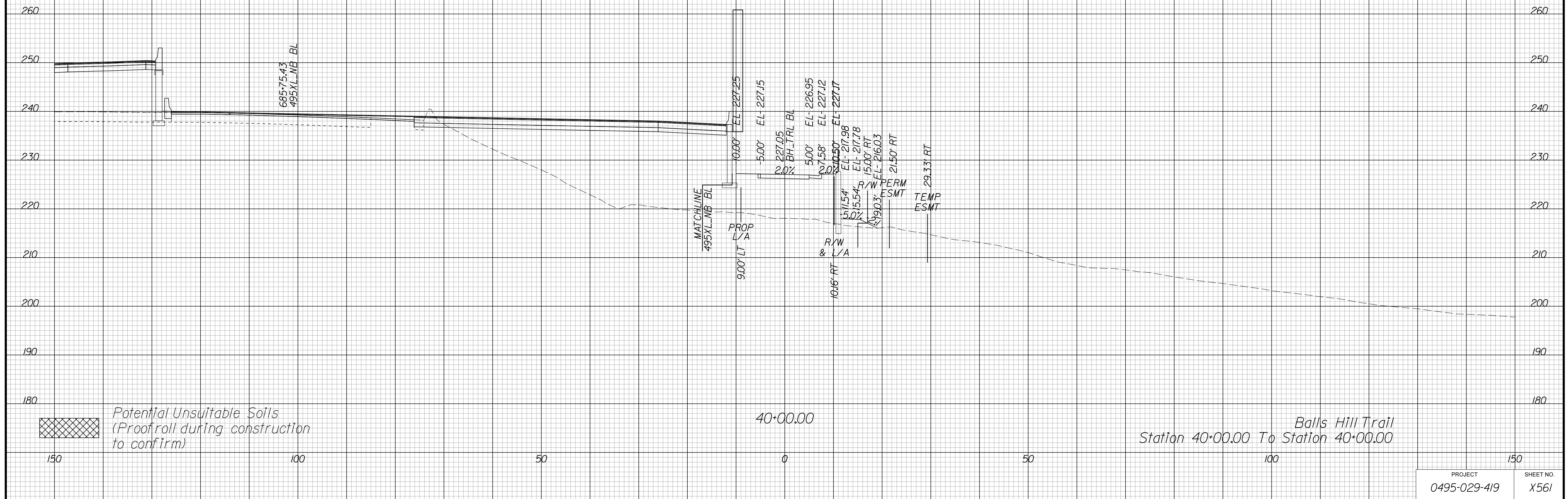
CROSS SECTIONS

SCALE 1 IN. = 10 FT

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

REVISED	STATE	ROUTE	STATE PROJECT	SHEET NO.
	VA.	495	0495-029-419	X56/ AREA 4

*Cross Section Labels Are Pertinent Only To The Roadway
Associated To The Alignment In Focus. For Labels On Other
Roadway See The Appropriate Cross Section Sheet.*



APPROVED FOR CONSTRUCTION

PROJECT MANAGER VDOT - Bipal Sab PE (703) 259-2362
SURVEYED BY, DATE BDA - Nicholas Kouyoulis LS (703) 334-0837, 12/2021
DESIGN BY BDA - Darrell Eischer BE (703) 334-0823, Dexberry - Ron Jakominich PE (703) 849-0651
SUBSURFACE UTILITY BY, DATE Accurmark - Michael Taylor LS (703) 635-3060, 12/2021

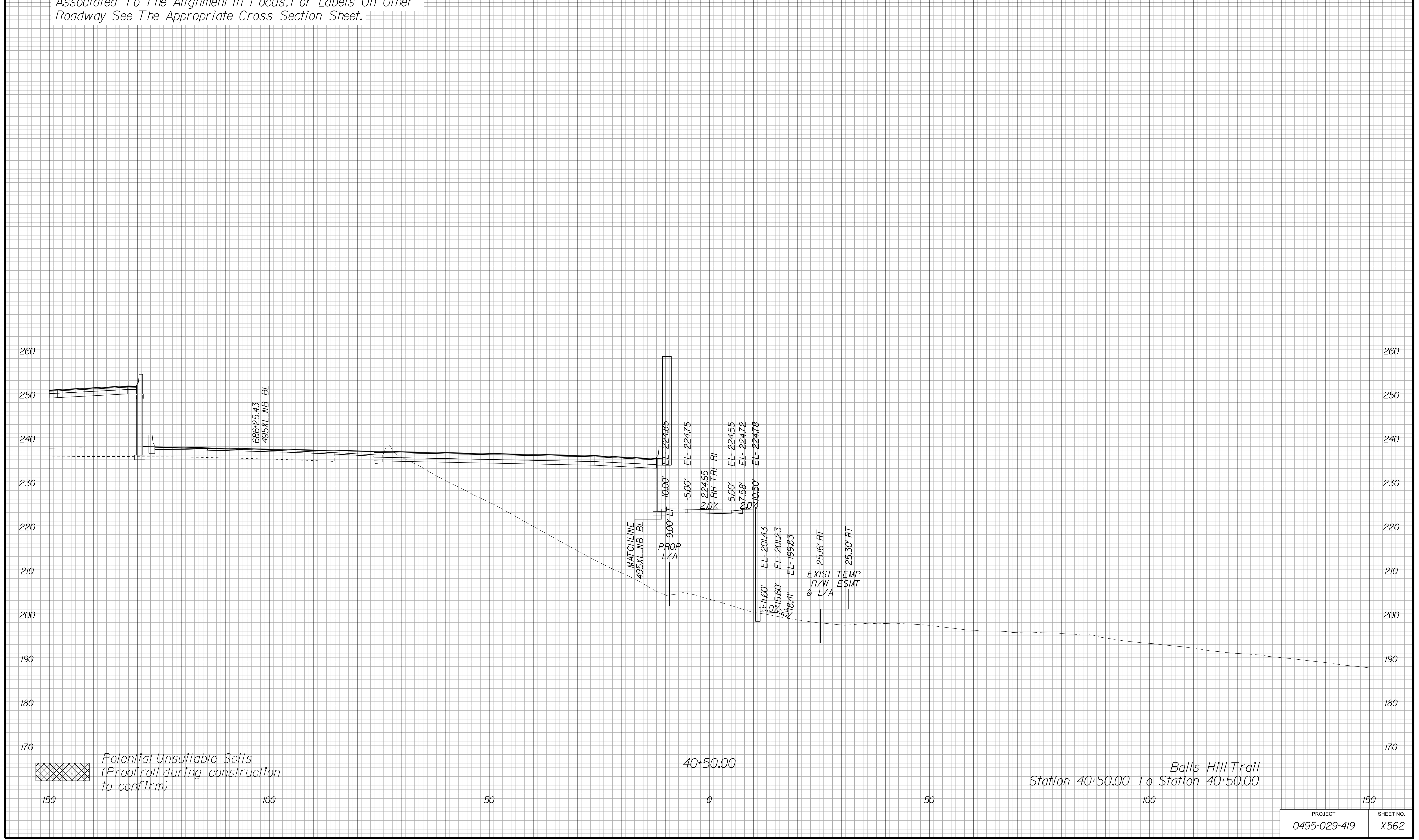
CROSS SECTIONS

SCALE 1 IN. = 10 FT

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

REVISION	STATE	ROUTE	STATE	PROJECT	SHEET NO.
	VA.	495		0495-029-419	X562 AREA 4

Cross Section Labels Are Pertinent Only To The Roadway Associated To The Alignment In Focus. For Labels On Other Roadway See The Appropriate Cross Section Sheet.



APPROVED FOR CONSTRUCTION

PROJECT MANAGER VDOT - Bipal Sab PE (703) 259-2362
SURVEYED BY, DATE BDA - Nicholas Kougoulis LS (703) 334-0837, 12/2021
DESIGN BY BDA - Darrell Eischer BE (703) 334-0823, Dawbercy - Ron Jakominich PE (703) 849-0651
SUBSURFACE UTILITY BY, DATE Accurmark - Michael Taylor LS (703) 635-3060, 12/2021

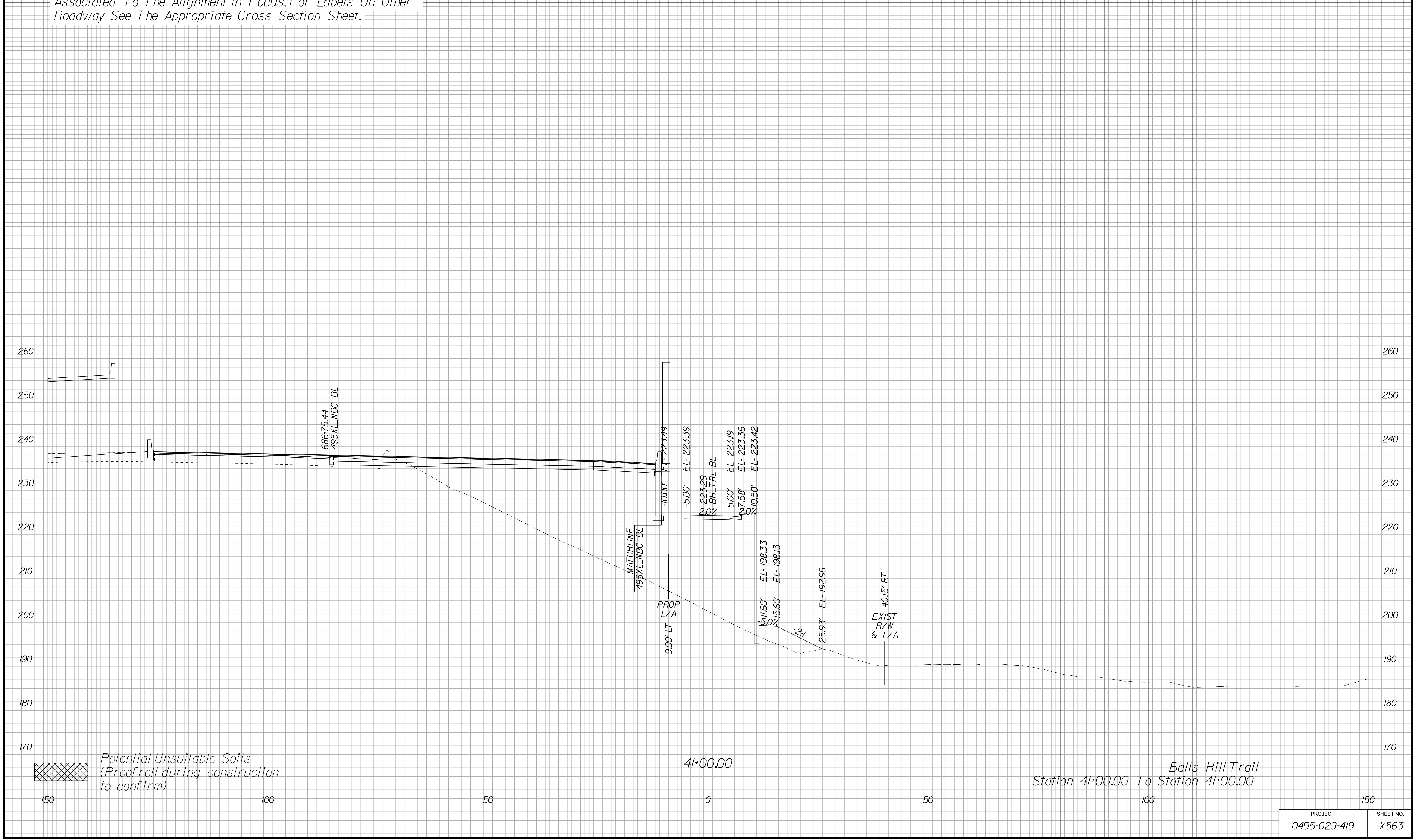
CROSS SECTIONS

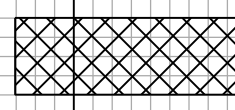
SCALE 1 IN. = 10 FT

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

REVISED	STATE	ROUTE	STATE PROJECT	SHEET NO.
	VA.	495	0495-029-419	X563 AREA 4

Cross Section Labels Are Pertinent Only To The Roadway Associated To The Alignment In Focus. For Labels On Other Roadway See The Appropriate Cross Section Sheet.



 Potential Unsuitable Soils
(Proofroll during construction to confirm)

APPROVED FOR CONSTRUCTION

PROJECT MANAGER VDOT - Bipal Shab PE (703) 259-2362
SURVEYED BY, DATE BDA - Nicholas Kougoulis LS (703) 334-0837, 12/2021
DESIGN BY BDA - Darrell Eischer BE (703) 334-0823, Dawbercy - Ron Jakominich PE (703) 849-0651
SUBSURFACE UTILITY BY, DATE Accurmark - Michael Taylor LS (703) 635-3060, 12/2021

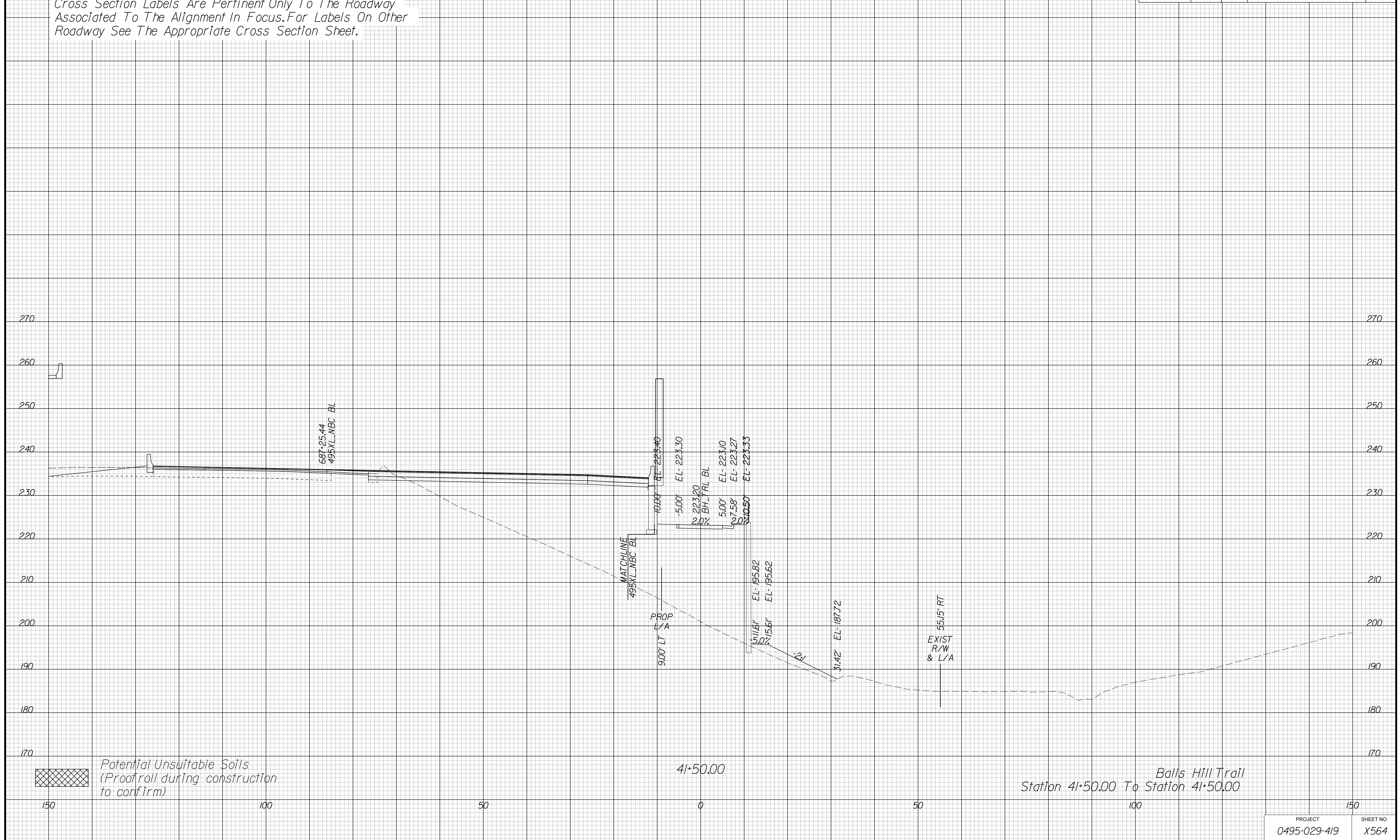
CROSS SECTIONS

SCALE 1 IN. = 10 FT

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

REVISED	STATE	ROUTE	STATE PROJECT	SHEET NO.
	VA.	495	0495-029-419	X564 AREA 4

Cross Section Labels Are Pertinent Only To The Roadway Associated To The Alignment In Focus. For Labels On Other Roadway See The Appropriate Cross Section Sheet.



APPROVED FOR CONSTRUCTION

PROJECT	SHEET NO.
0495-029-419	X564

PROJECT MANAGER VDOT - Bipal Shab PE (703) 259-2362
SURVEYED BY, DATE BDA - Nicholas Kougoulis LS (703) 334-0837, 12/2021
DESIGN BY BDA - Darrell Eischer BE (703) 334-0823, Dexberry - Ron Jakominich PE (703) 849-0651
SUBSURFACE UTILITY BY, DATE Accurmark - Michael Taylor LS (703) 635-3060, 12/2021

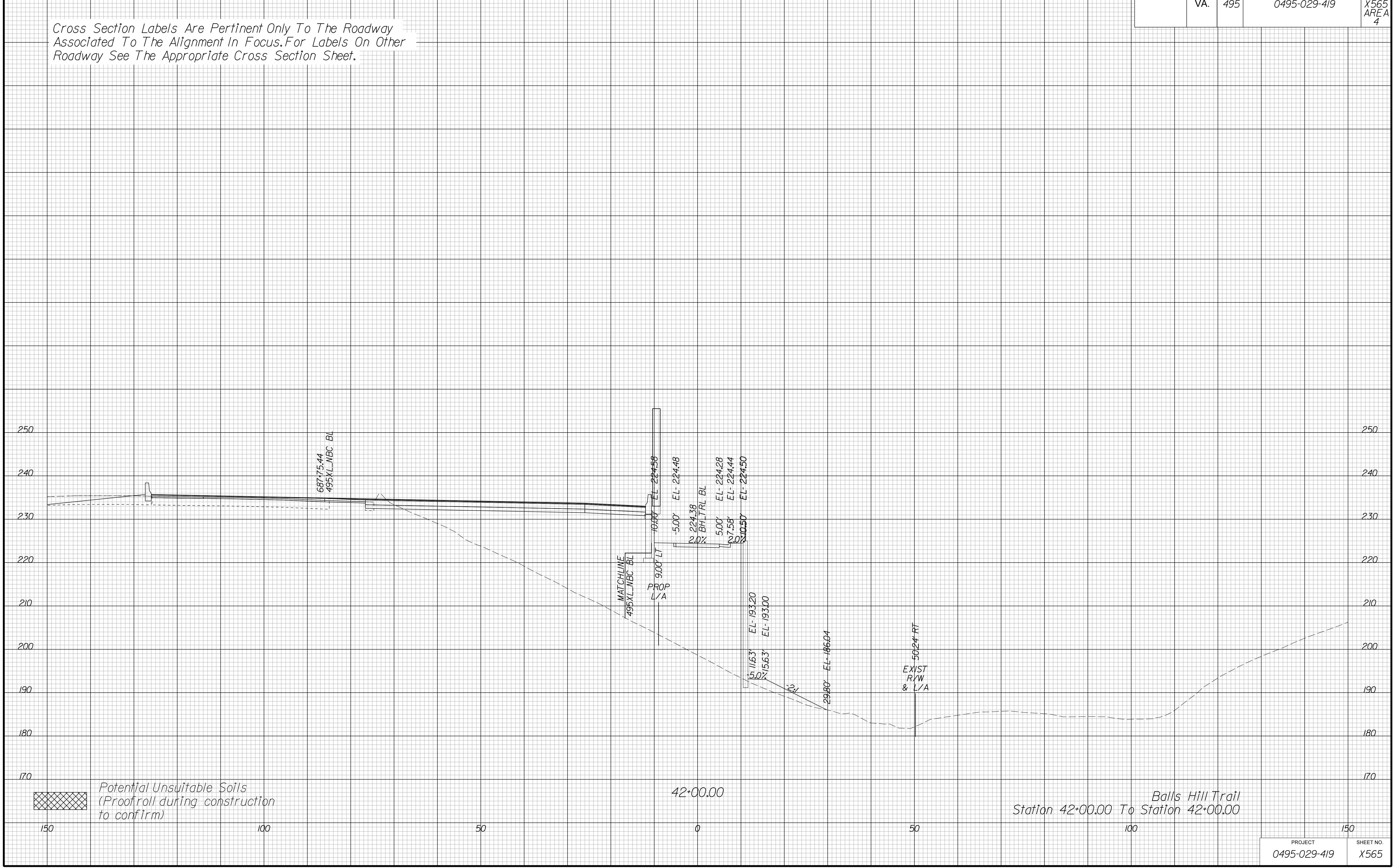
CROSS SECTIONS

SCALE 1 IN. = 10 FT

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

REVISED	STATE	ROUTE	STATE PROJECT	SHEET NO.
	VA.	495	0495-029-419	X565 AREA 4

Cross Section Labels Are Pertinent Only To The Roadway Associated To The Alignment In Focus. For Labels On Other Roadway See The Appropriate Cross Section Sheet.



Balls Hill Trail
Station 42+00.00 To Station 42+00.00

PROJECT	SHEET NO.
0495-029-419	X565

APPROVED FOR CONSTRUCTION

PROJECT MANAGER VDOT - Bimbal Stab PE (703) 259-2362
SURVEYED BY DATE BDA - Nicholas Kougoulis LS (703) 334-0837, 12/2021
DESIGN BY BDA - Darrell Eischer BE (703) 334-0823, Dawbercy - Ron Jakominich PE (703) 849-0651
SUBSURFACE UTILITY BY DATE Accurmark - Michael Taylor LS (703) 635-3060, 12/2021

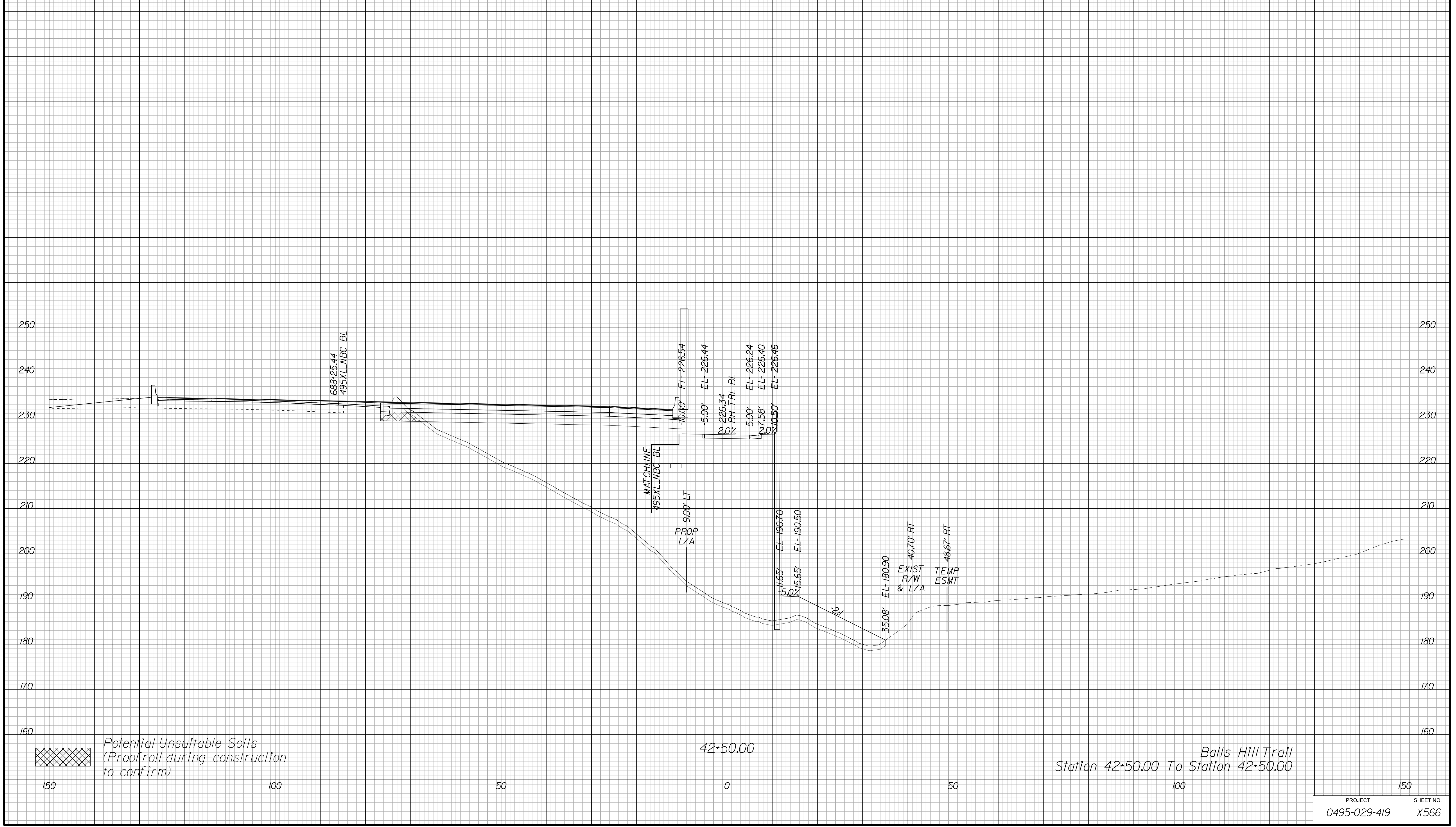
CROSS SECTIONS

SCALE 1 IN. = 10 FT

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

REVISED	STATE	ROUTE	STATE PROJECT	SHEET NO.
	VA.	495	0495-029-419	X566 AREA 4

Cross Section Labels Are Pertinent Only To The Roadway Associated To The Alignment In Focus. For Labels On Other Roadway See The Appropriate Cross Section Sheet.



Balls Hill Trail
Station 42+50.00 To Station 42+50.00

PROJECT	SHEET NO.
0495-029-419	X566

APPROVED FOR CONSTRUCTION

PROJECT MANAGER VDOT - Bimal Saha, PE, (703) 259-2362
SURVEYED BY, DATE BDA - Nicholas Kougoulis, LS, (703) 334-0837, 12/2021
DESIGN BY BDA - Darrell Eischer, BE, (703) 334-0823, Dewberry - Ron Jakominich, PE, (703) 849-0651
SUBSURFACE UTILITY BY, DATE Accurmark - Michael Taylor, LS, (703) 635-3060, 12/2021

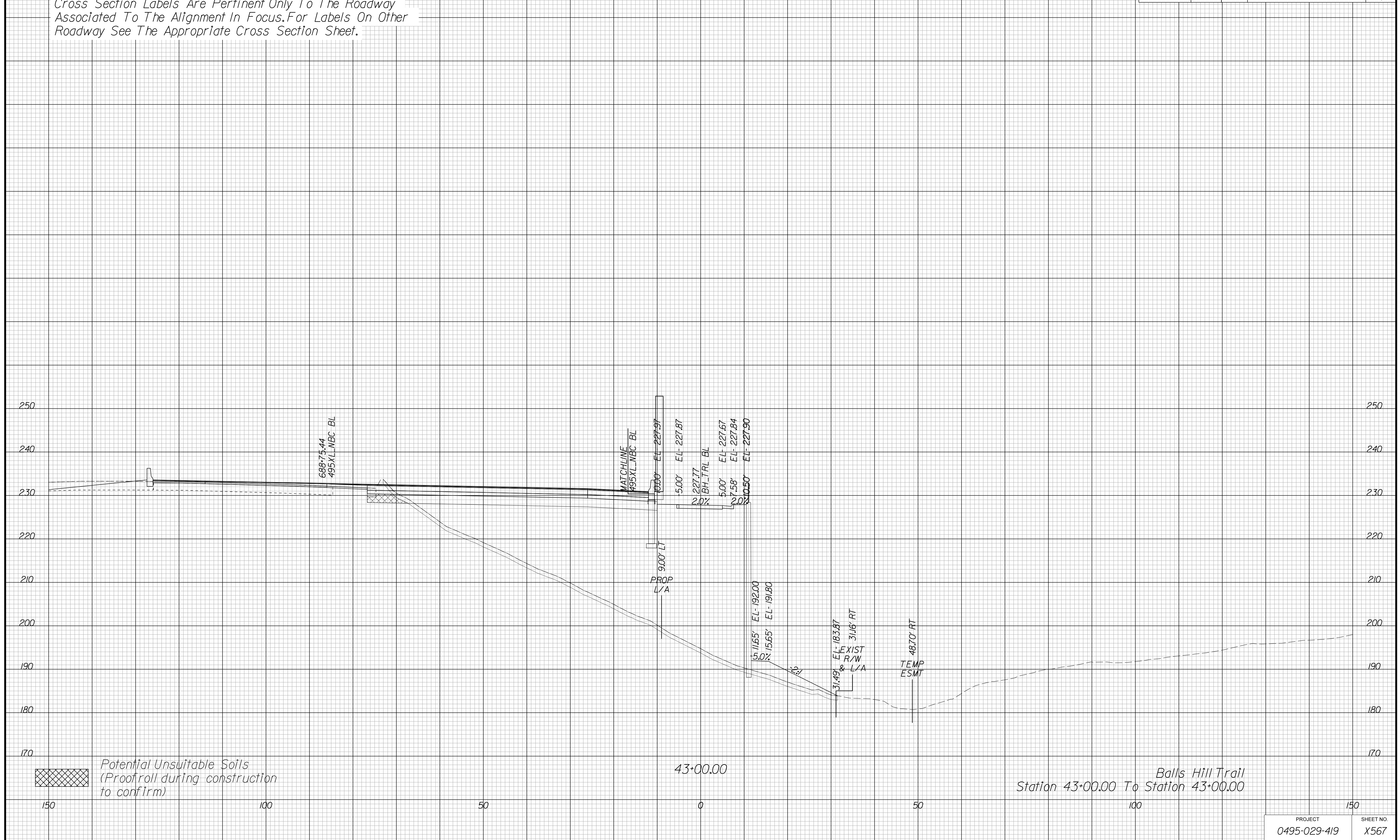
CROSS SECTIONS

SCALE 1 IN. = 10 FT

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

REVISED	STATE	ROUTE	STATE PROJECT	SHEET NO.
	VA.	495	0495-029-419	X567 AREA 4

Cross Section Labels Are Pertinent Only To The Roadway Associated To The Alignment In Focus. For Labels On Other Roadway See The Appropriate Cross Section Sheet.



APPROVED FOR CONSTRUCTION

PROJECT	SHEET NO.
0495-029-419	X567

PROJECT MANAGER VDOT - Bimbal Stab PE (703) 259-2362
SURVEYED BY DATE BDA - Nicholas Kougoulis LS (703) 334-0837, 12/2021
DESIGN BY BDA - Darrell Eischer BE (703) 334-0823, Dexberry - Ron Jakominich PE (703) 849-0651
SUBSURFACE UTILITY BY DATE Accurmark - Michael Taylor LS (703) 635-3060, 12/2021

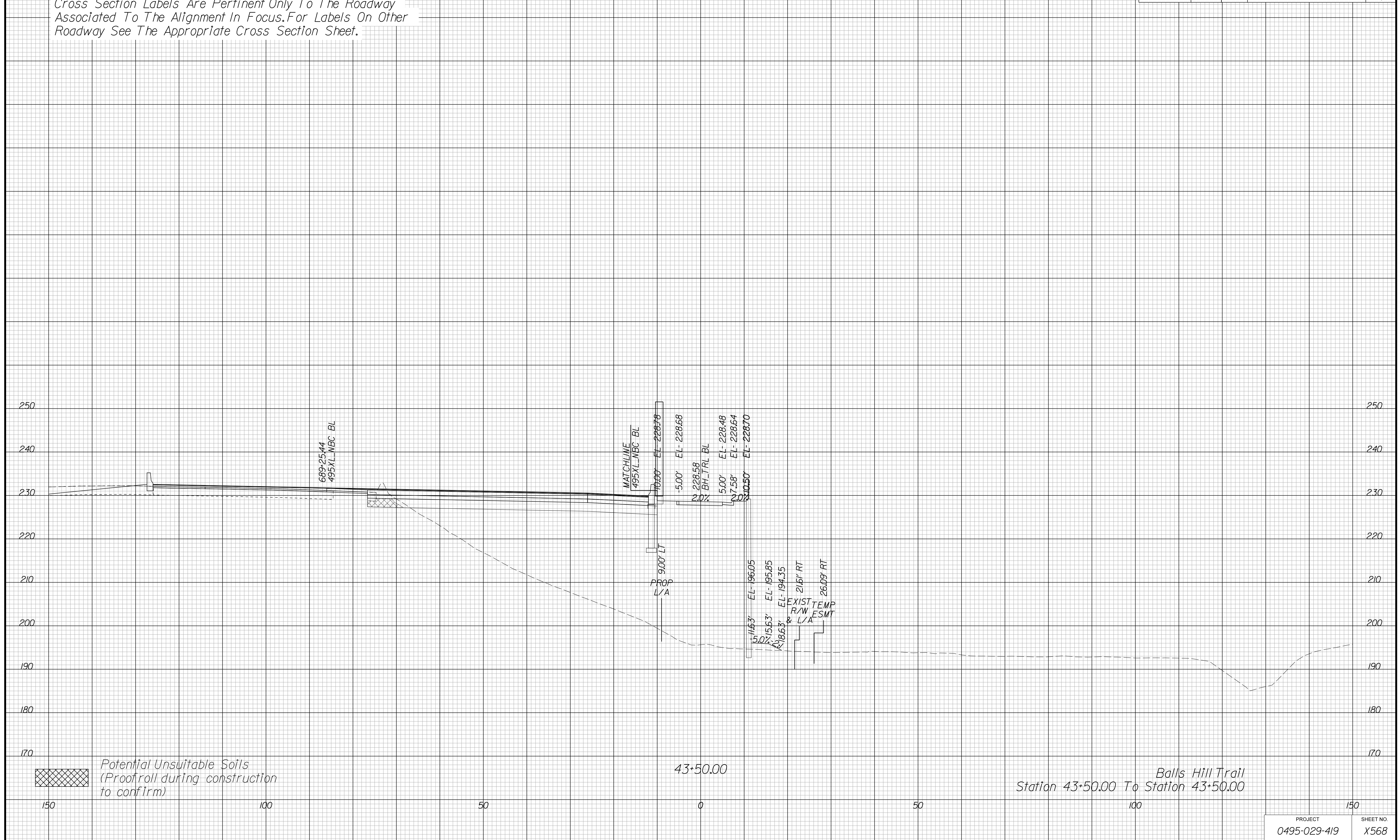
CROSS SECTIONS

SCALE 1 IN. = 10 FT

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

REVISED	STATE	ROUTE	STATE PROJECT	SHEET NO.
	VA.	495	0495-029-419	X568 AREA 4

Cross Section Labels Are Pertinent Only To The Roadway Associated To The Alignment In Focus. For Labels On Other Roadway See The Appropriate Cross Section Sheet.



PROJECT	SHEET NO.
0495-029-419	X568

APPROVED FOR CONSTRUCTION

PROJECT MANAGER VDOT - Bimbal Stab PE (703) 259-2362
SURVEYED BY DATE BDA - Nicholas Kougoulis LS (703) 334-0837, 12/2021
DESIGN BY BDA - Darrell Elischer BE (703) 334-0823, Dexberry - Ron Jakominich PE (703) 849-0651
SUBSURFACE UTILITY BY DATE Accurmark - Michael Taylor LS (703) 635-3060, 12/2021

CROSS SECTIONS

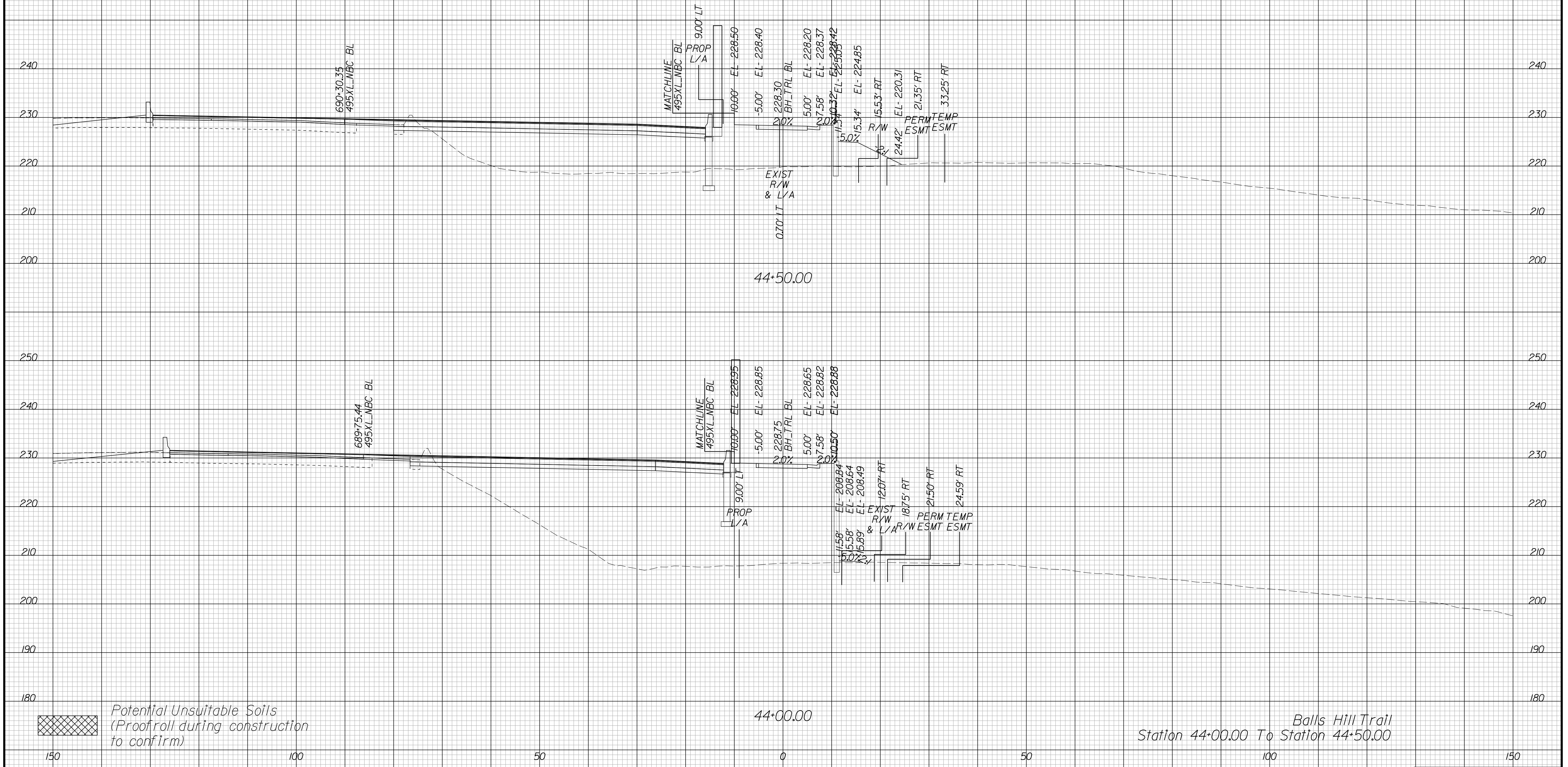
SCALE 1 IN. = 10 FT

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

REVISED	STATE	ROUTE	STATE PROJECT	SHEET NO.
	VA.	495	0495-029-419	X569 AREA 4

Cross Section Labels Are Pertinent Only To The Roadway Associated To The Alignment In Focus. For Labels On Other Roadway See The Appropriate Cross Section Sheet.

End Retaining Wall 19 Sta. 44+55.17



APPROVED FOR CONSTRUCTION

PROJECT MANAGER VDOT - Bimbal Stab PE (703) 259-2362
SURVEYED BY DATE BDA - Nicholas Kougoulis LS (703) 334-0837, 12/2021
DESIGN BY BDA - Darrell Eischer BE (703) 334-0823, Dawbergy - Ron Jakominich PE (703) 849-0651
SUBSURFACE UTILITY BY DATE Accurmark - Michael Taylor LS (703) 635-3060, 12/2021

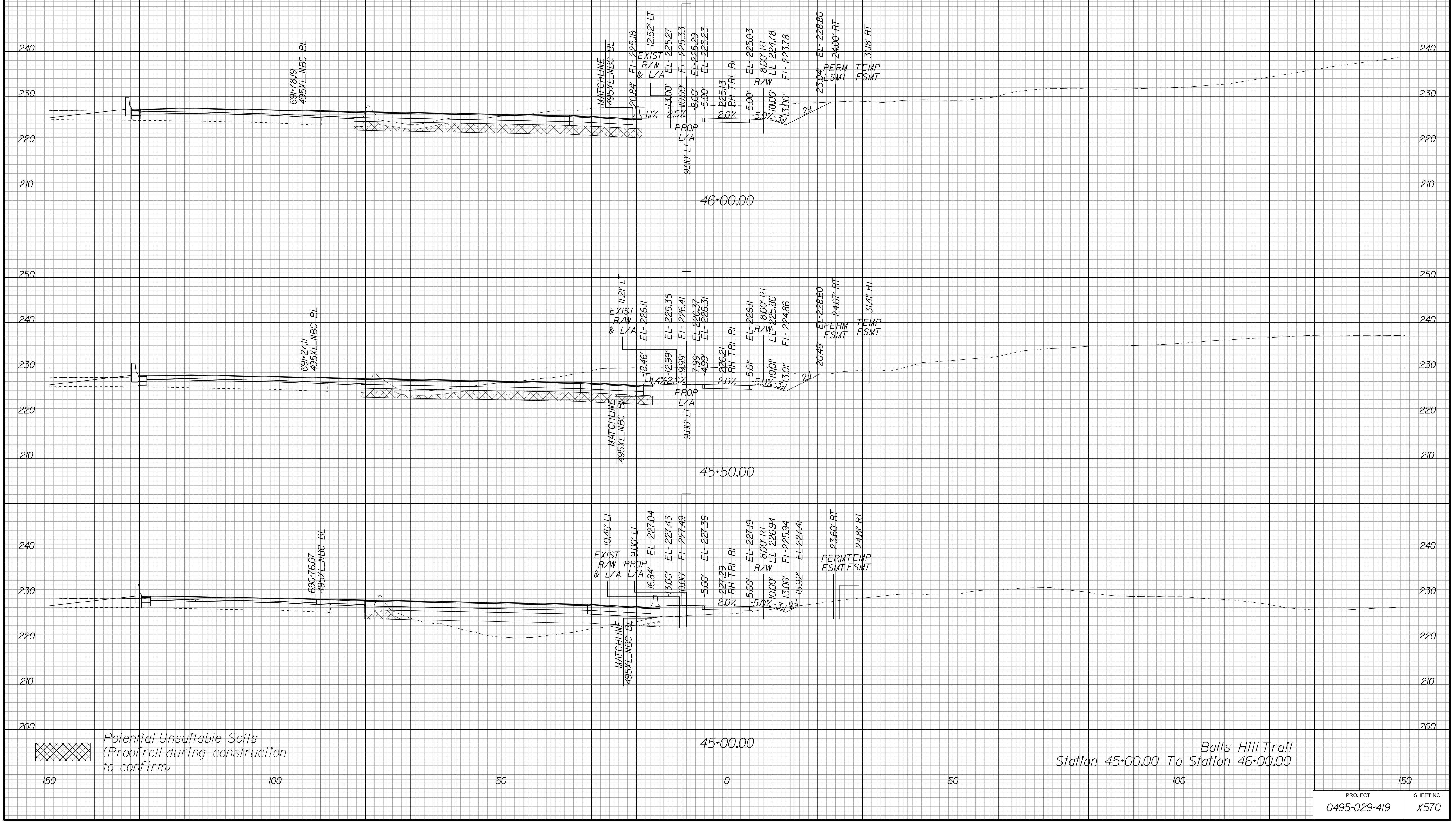
CROSS SECTIONS

SCALE 1 IN. = 10 FT

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

REVISED	STATE	ROUTE	STATE	PROJECT	SHEET NO.
	VA.	495		0495-029-419	X570 AREA 4

Cross Section Labels Are Pertinent Only To The Roadway Associated To The Alignment In Focus. For Labels On Other Roadway See The Appropriate Cross Section Sheet.



Balls Hill Trail
Station 45+00.00 To Station 46+00.00

APPROVED FOR CONSTRUCTION

PROJECT MANAGER VDOT - Bimbal Stab PE (703) 259-2362
SURVEYED BY DATE BDA - Nicholas Kougoulis LS (703) 334-0837, 12/2021
DESIGN BY BDA - Darrell Eischer BE (703) 334-0823, Dexberry - Ron Jakominich PE (703) 849-0651
SUBSURFACE UTILITY BY DATE Accurmark - Michael Taylor LS (703) 635-3060, 12/2021

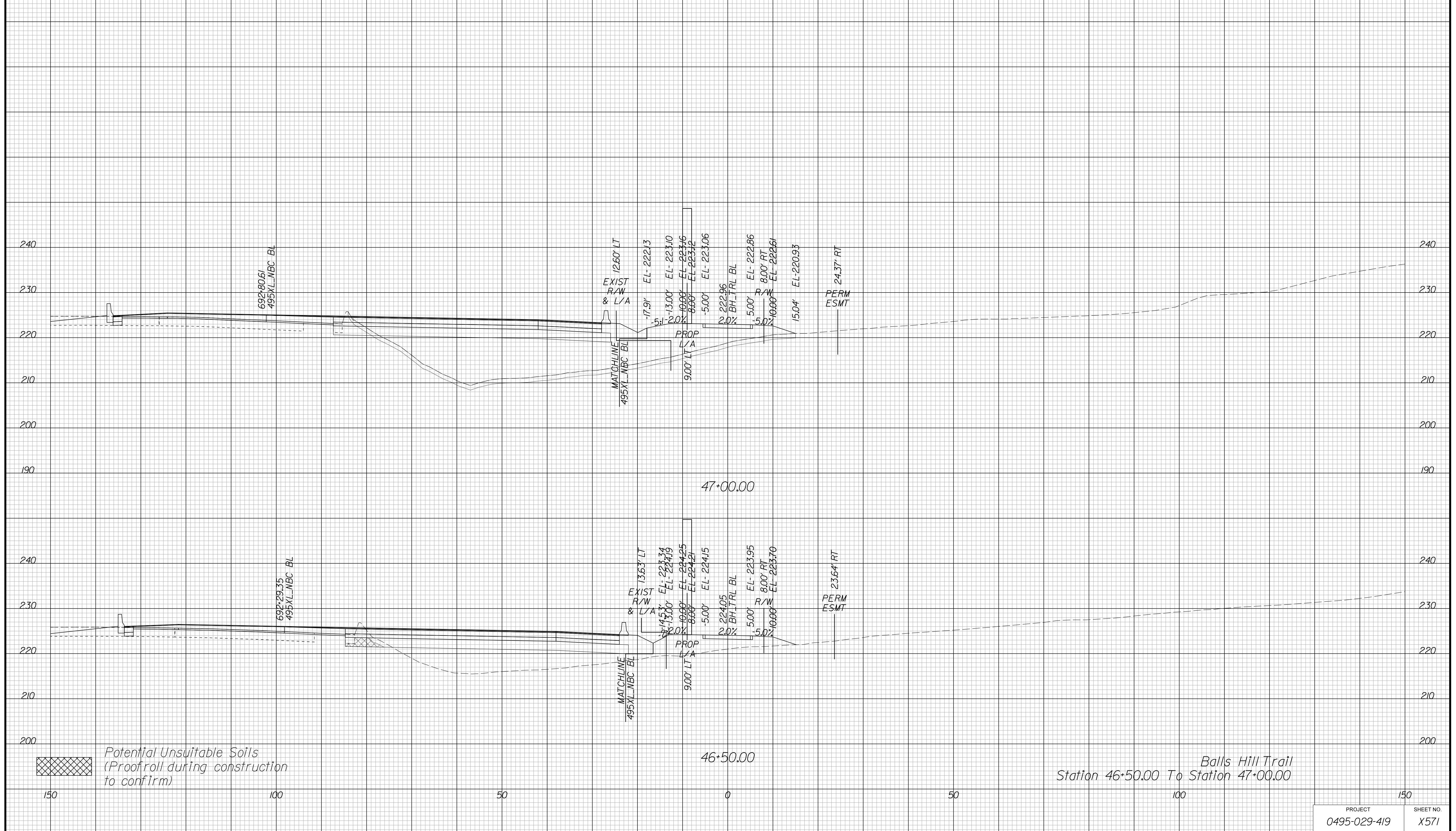
CROSS SECTIONS

SCALE 1 IN. = 10 FT

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

REVISED	STATE	ROUTE	STATE	PROJECT	SHEET NO.
	VA.	495		0495-029-419	X571 AREA 4

Cross Section Labels Are Pertinent Only To The Roadway Associated To The Alignment In Focus. For Labels On Other Roadway See The Appropriate Cross Section Sheet.



PROJECT	SHEET NO.
0495-029-419	X571

APPROVED FOR CONSTRUCTION

PROJECT MANAGER VDOT - Bimbal Stab PE (703) 259-2362
SURVEYED BY, DATE BDA - Nicholas Kougoulis LS (703) 334-0837, 12/2021
DESIGN BY BDA - Darrell Eischer BE (703) 334-0823, Dawbergy - Ron Jakominich PE (703) 849-0651
SUBSURFACE UTILITY BY, DATE Accurmark - Michael Taylor LS (703) 635-3060, 12/2021

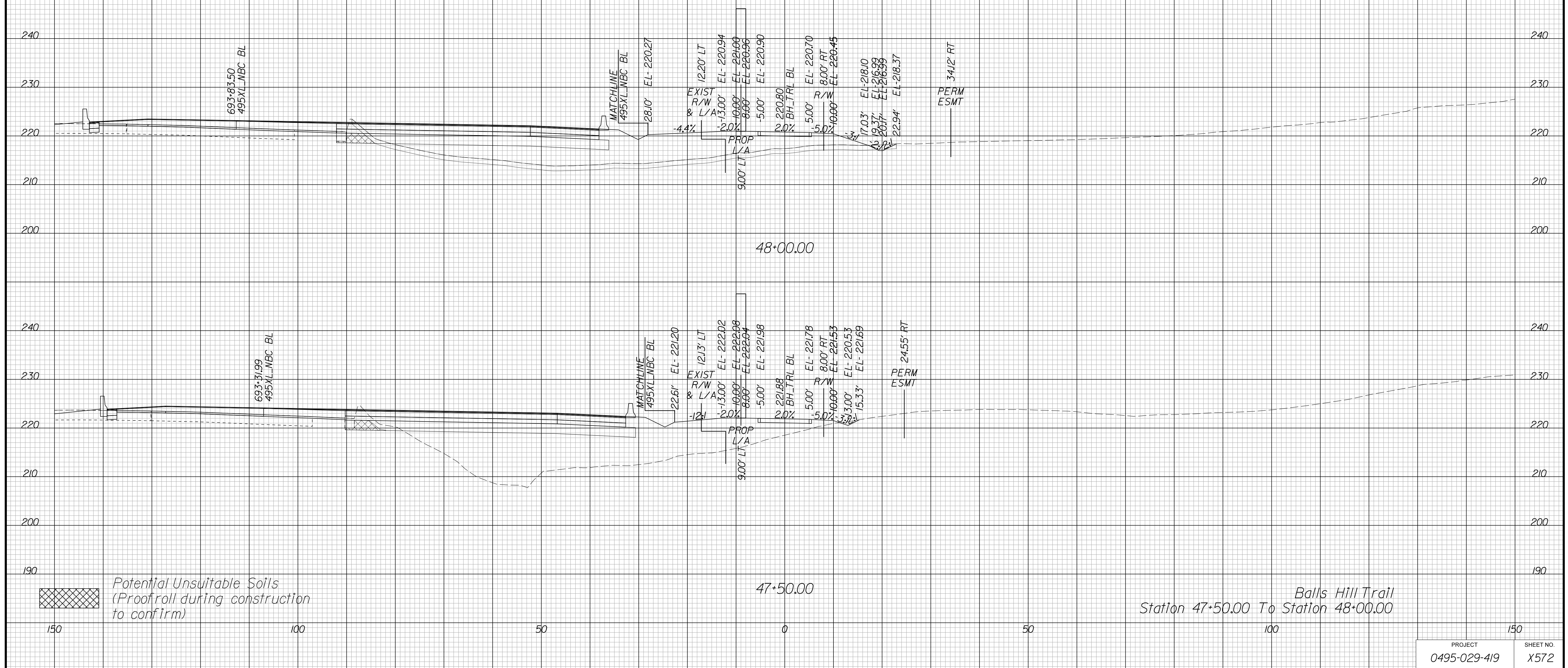
CROSS SECTIONS

SCALE 1 IN. = 10 FT

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

REVISED	STATE	ROUTE	STATE	PROJECT	SHEET NO.
	VA.	495		0495-029-419	X572 AREA 4

Cross Section Labels Are Pertinent Only To The Roadway Associated To The Alignment In Focus. For Labels On Other Roadway See The Appropriate Cross Section Sheet.



APPROVED FOR CONSTRUCTION

PROJECT MANAGER VDOT - Bimbal Stab PE (703) 259-2362
SURVEYED BY DATE BDA - Nicholas Kougoulis LS (703) 334-0837, 12/2021
DESIGN BY BDA - Darrell Eischer BE (703) 334-0823, Dawbercy - Ron Jakominich PE (703) 849-0651
SUBSURFACE UTILITY BY DATE Accumark - Michael Taylor LS (703) 635-3060, 12/2021

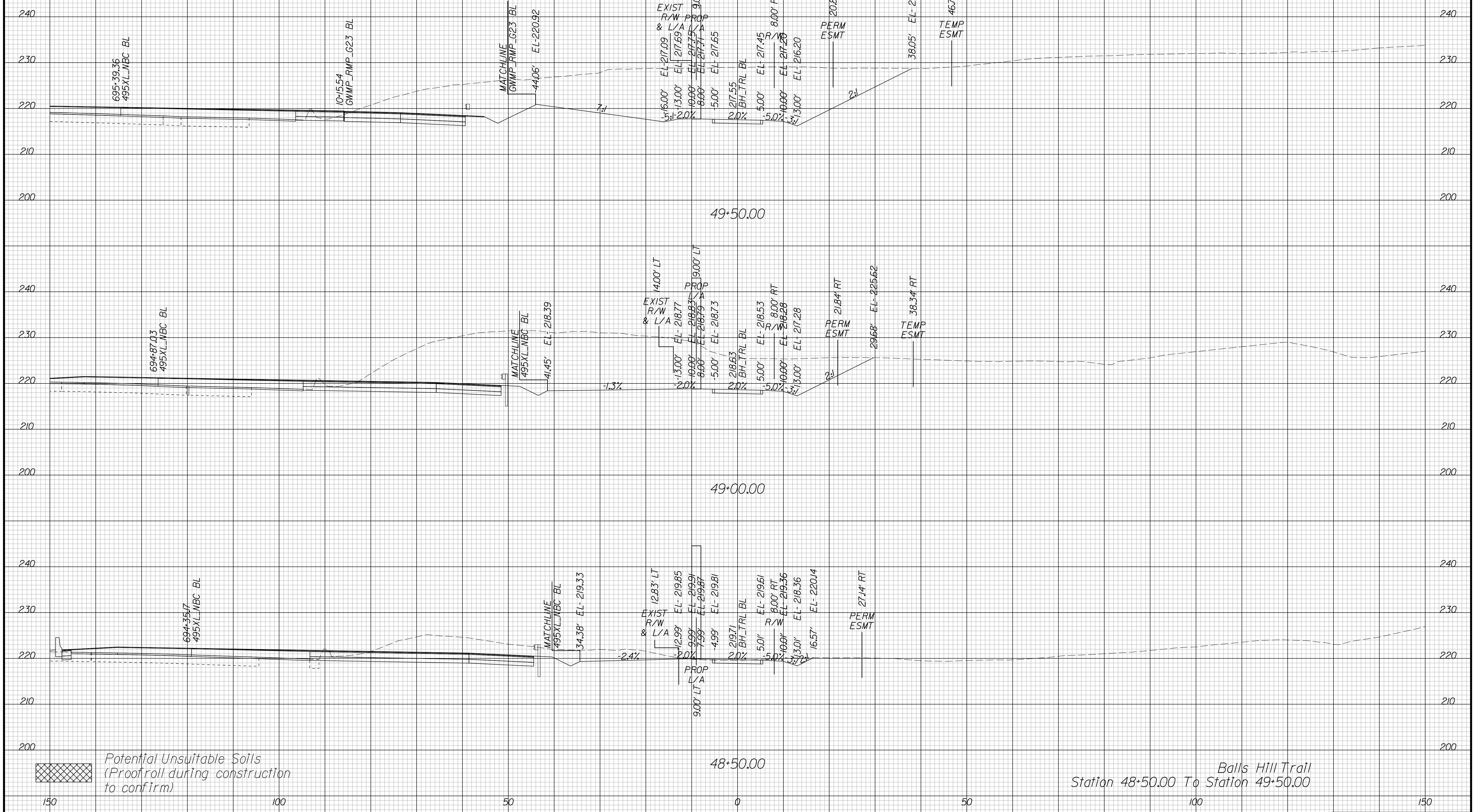
CROSS SECTIONS

SCALE 1 IN. = 10 FT

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

REVISED	STATE	ROUTE	STATE	PROJECT	SHEET NO.
	VA.	495		0495-029-419	X573 AREA 4

Cross Section Labels Are Pertinent Only To The Roadway Associated To The Alignment In Focus. For Labels On Other Roadway See The Appropriate Cross Section Sheet.



Balls Hill Trail
Station 48+50.00 To Station 49+50.00

PROJECT	SHEET NO.
0495-029-419	X573

APPROVED FOR CONSTRUCTION

PROJECT MANAGER VDOT - Bimbal Stab PE (703) 259-2362
SURVEYED BY DATE BDA - Nicholas Kougoulis LS (703) 334-0837, 12/2021
DESIGN BY BDA - Darrell Eischer BE (703) 334-0823, Daxbery - Ron Jakominich PE (703) 849-0651
SUBSURFACE UTILITY BY DATE Accurmark - Michael Taylor LS (703) 635-3060, 12/2021

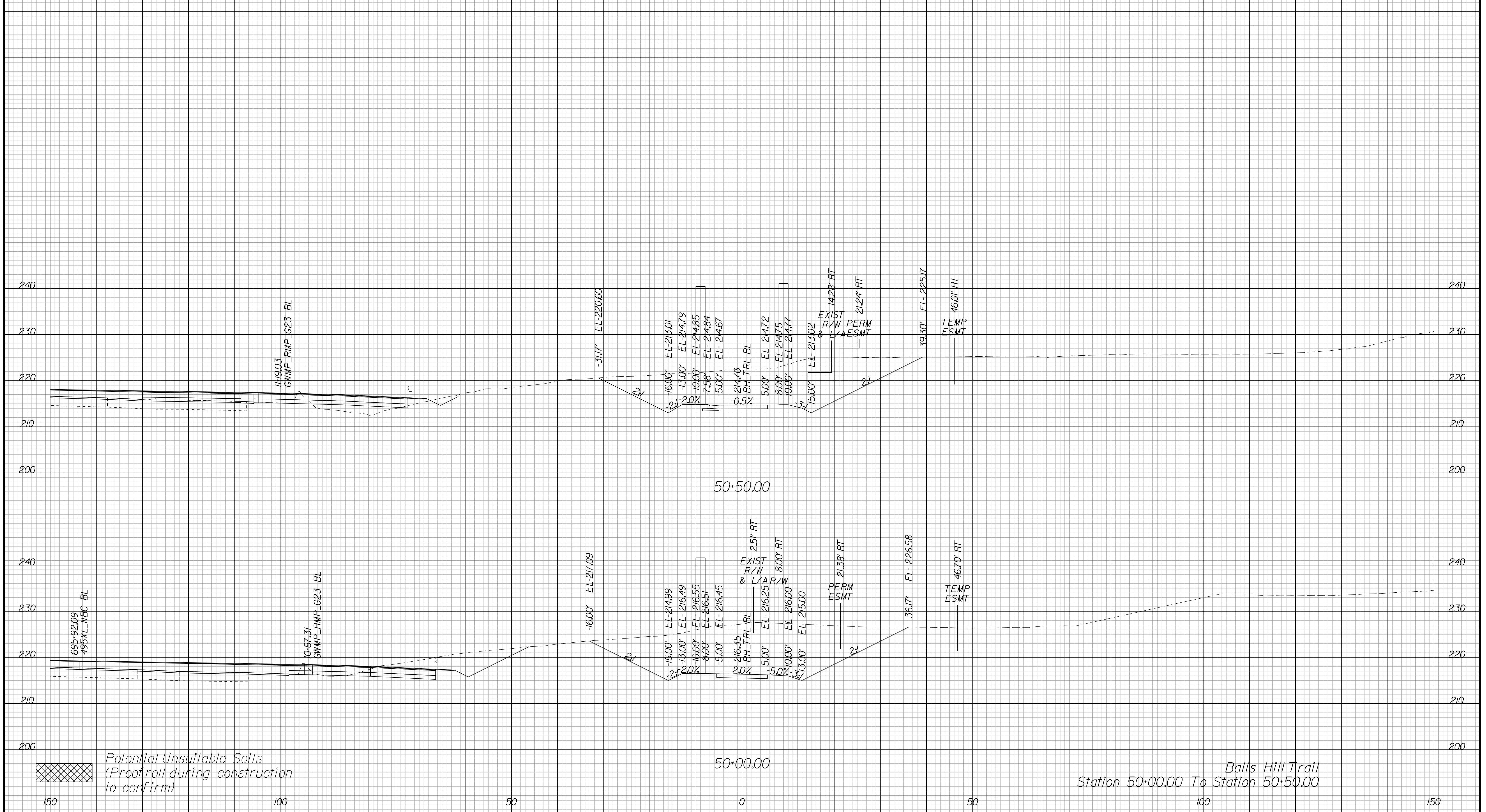
CROSS SECTIONS

SCALE 1 IN. = 10 FT

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

REVISED	STATE	ROUTE	STATE	PROJECT	SHEET NO.
	VA.	495		0495-029-419	X574 AREA 4

Cross Section Labels Are Pertinent Only To The Roadway Associated To The Alignment In Focus. For Labels On Other Roadway See The Appropriate Cross Section Sheet.



Potential Unsuitable Soils (Proofroll during construction to confirm)

Balls Hill Trail
Station 50+00.00 To Station 50+50.00

PROJECT	SHEET NO.
0495-029-419	X574

APPROVED FOR CONSTRUCTION

PROJECT MANAGER VDOT - Bimbal Stab PE (703) 259-2362
SURVEYED BY DATE BDA - Nicholas Kougoulis LS (703) 334-0837, 12/2021
DESIGN BY BDA - Darrell Eischer BE (703) 334-0823, Dewberry - Ron Jakominich PE (703) 849-0651
SUBSURFACE UTILITY BY DATE Accurmark - Michael Taylor LS (703) 635-3060, 12/2021

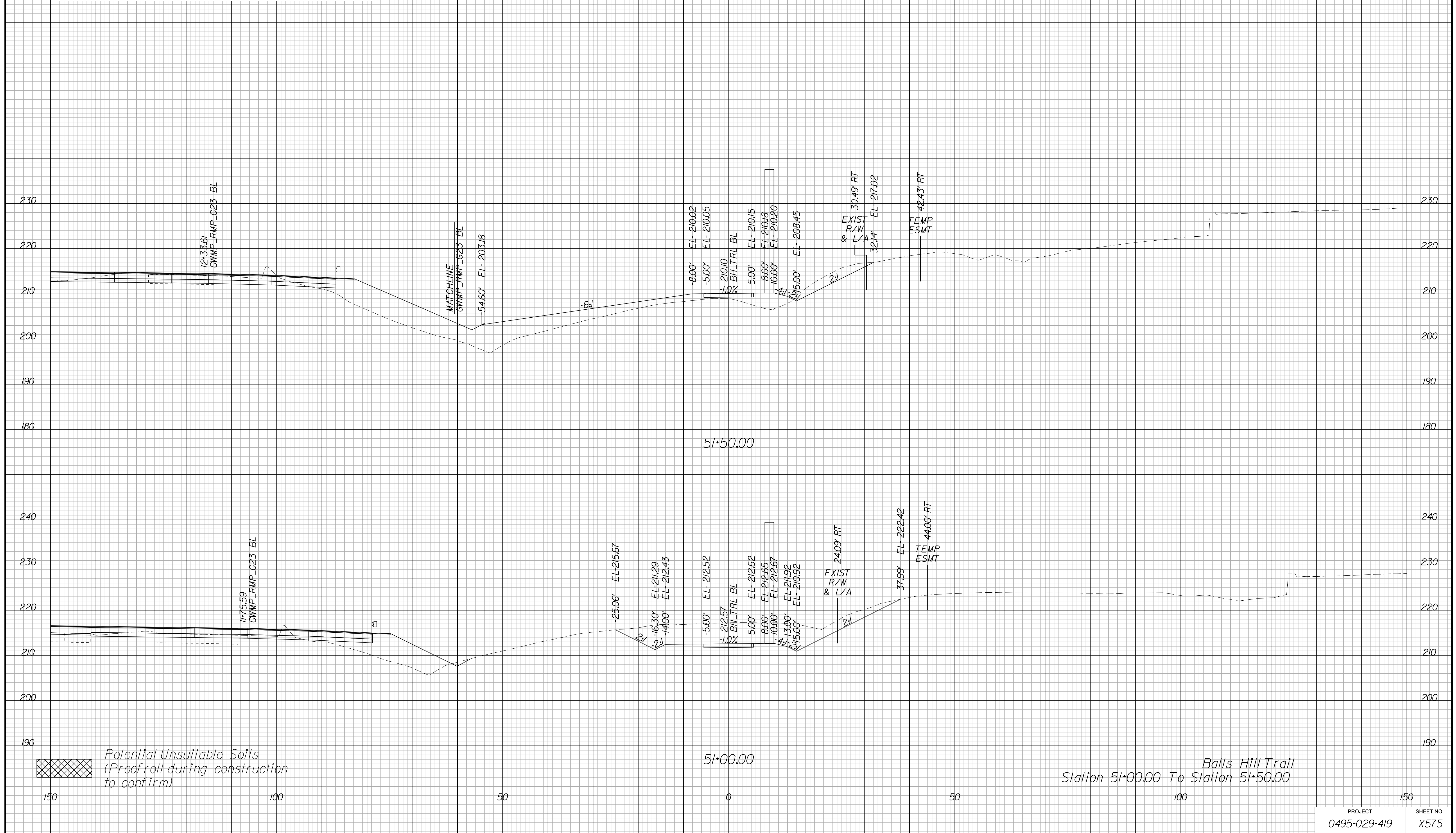
CROSS SECTIONS

SCALE 1 IN. = 10 FT

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

REVISED	STATE	ROUTE	STATE	PROJECT	SHEET NO.
	VA.	495		0495-029-419	X575 AREA 4

Cross Section Labels Are Pertinent Only To The Roadway Associated To The Alignment In Focus. For Labels On Other Roadway See The Appropriate Cross Section Sheet.



APPROVED FOR CONSTRUCTION

PROJECT MANAGER VDOT - Bimbal Stab PE (703) 259-2362
SURVEYED BY, DATE BDA - Nicholas Kougoulis LS (703) 334-0837, 12/2021
DESIGN BY BDA - Darrell Elischer BE (703) 334-0823, Dawbercy - Ron Jakominich PE (703) 849-0651
SUBSURFACE UTILITY BY, DATE Accurmark - Michael Taylor LS (703) 635-3060, 12/2021

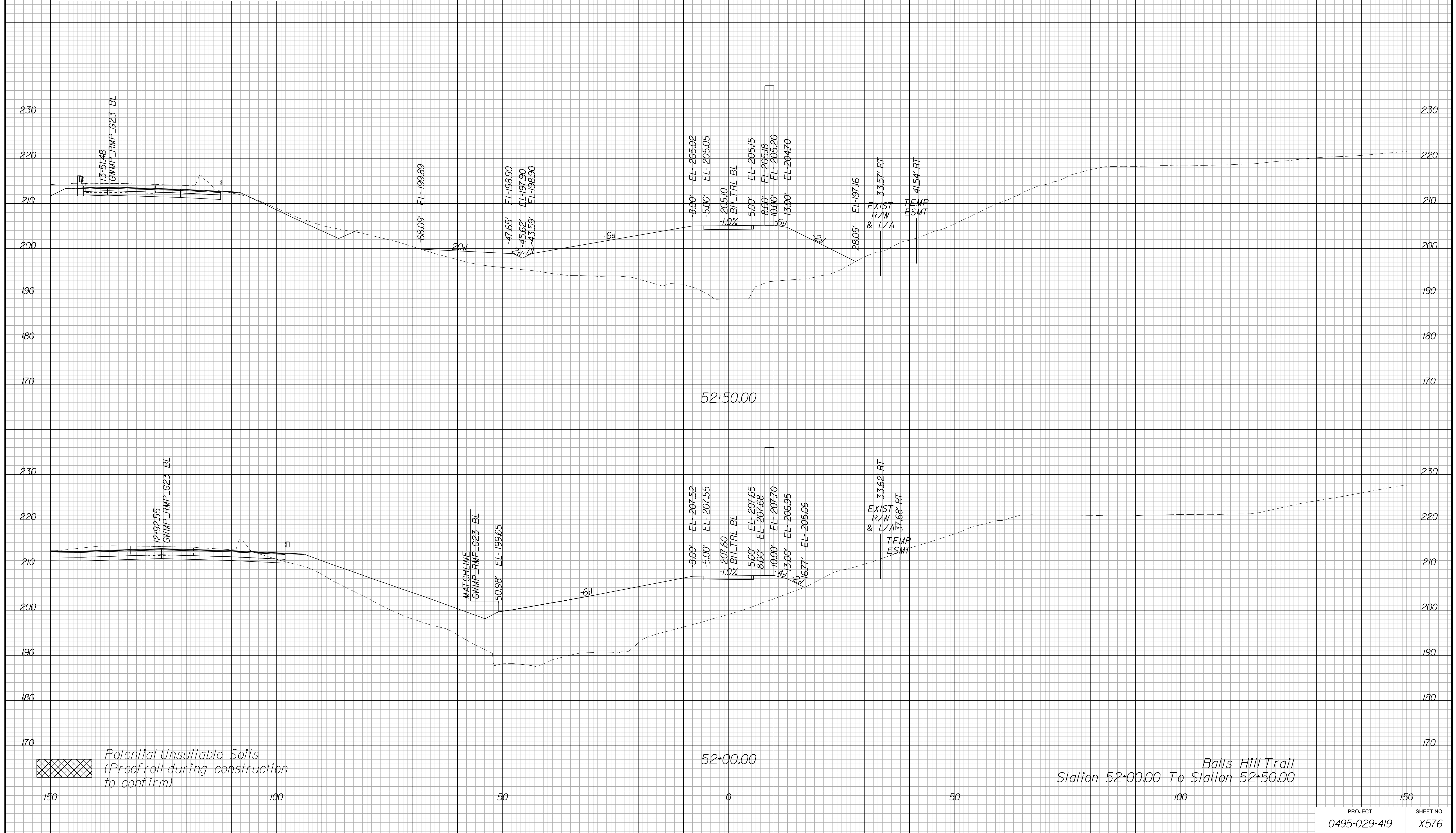
CROSS SECTIONS

SCALE 1 IN. = 10 FT

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

REVISED	STATE	ROUTE	STATE PROJECT	SHEET NO.
	VA.	495	0495-029-419	X576 AREA 4

Cross Section Labels Are Pertinent Only To The Roadway Associated To The Alignment In Focus. For Labels On Other Roadway See The Appropriate Cross Section Sheet.



PROJECT	SHEET NO.
0495-029-419	X576

APPROVED FOR CONSTRUCTION

PROJECT MANAGER VDOT - Bimbal Stab PE (703) 259-2362
SURVEYED BY, DATE BDA - Nicholas Kougoulis LS (703) 334-0837, 12/2021
DESIGN BY BDA - Darrell Elischer BE (703) 334-0823, Dawbercy - Ron Jakominich PE (703) 849-0651
SUBSURFACE UTILITY BY, DATE Accurmark - Michael Taylor LS (703) 635-3060, 12/2021

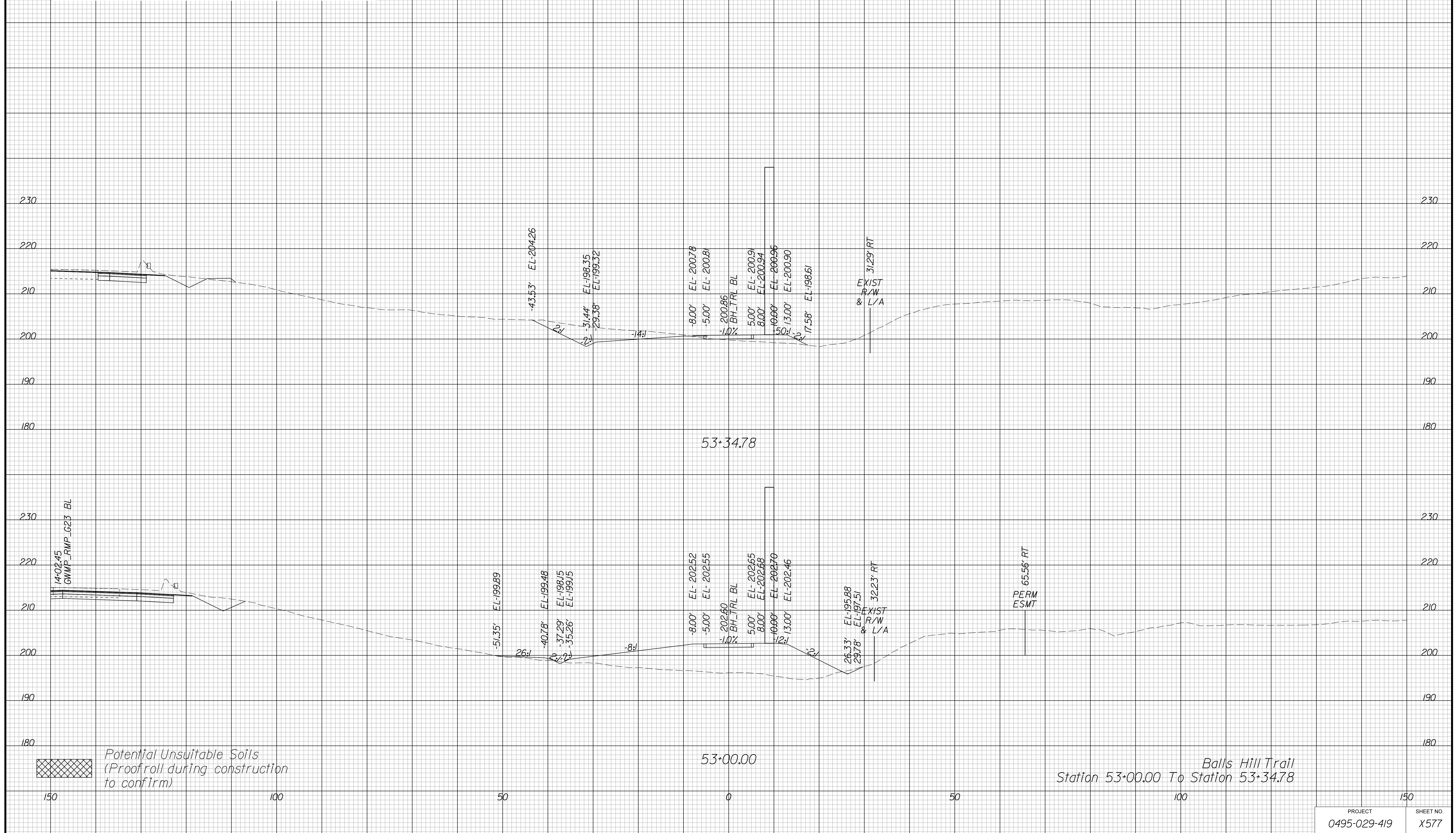
CROSS SECTIONS

SCALE 1 IN. = 10 FT

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

REVISED	STATE	ROUTE	STATE	PROJECT	SHEET NO.
	VA.	495		0495-029-419	X577 AREA 4

Cross Section Labels Are Pertinent Only To The Roadway Associated To The Alignment In Focus. For Labels On Other Roadway See The Appropriate Cross Section Sheet.



Balls Hill Trail
Station 53+00.00 To Station 53+34.78

PROJECT	SHEET NO.
0495-029-419	X577

APPROVED FOR CONSTRUCTION