

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

FHWA-534 DATA 41103

STATE	FEDERAL AID		STATE		SHEET NO.
	PROJECT	ROUTE	PROJECT	ROUTE	
VA.	NHPP-495-5(095)	495	(FO) 0495-029-419	(FO) 0495-029-419	1 AREA 3

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)

CONVENTIONAL SIGNS

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 3

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

\*\* Per VDOT's 2020 Daily Traffic Volume Estimates

FUNCTIONAL CLASSIFICATION AND TRAFFIC DATA

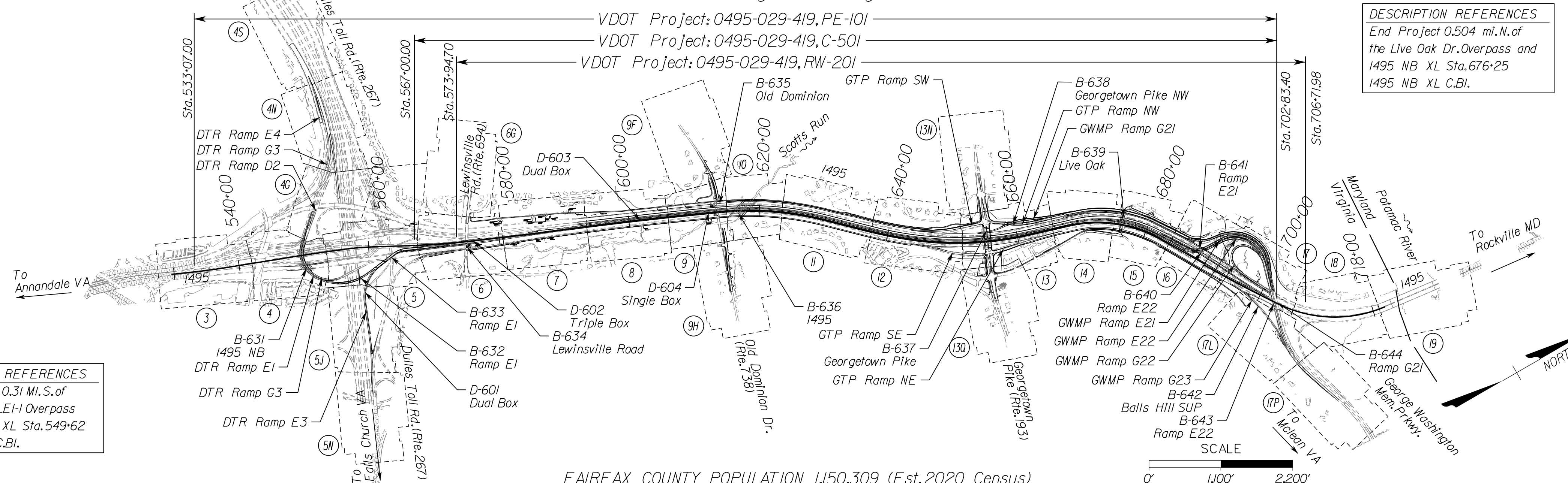
NHS - URBAN INTERSTATE - ROLLING - GS-INT DIVIDED - 60 TO 70 MPH MIN. DESIGN SPEED

For additional info. see Functional Classification and Traffic Data Matrix (This Sheet)	495 EXPRESS LANES	
	Fr:	To:
AADT (2020)	16,200	DULLES TOLL RD. (RTE. 267)
ADT (2045)	76,800	GEORGE WASHINGTON MEMORIAL PKWY.
DHV	6,600	
DHV (2045)	53%	
D (%) (design hour)	3%	
MIN. VERT CLEAR.	16.5'	
V (MPH)	*	
DESIGN VEHICLE	SU-30 (2011 AASHTO)	

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\_E1 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.

STATE PROJECT NO.	SECTION	FEDERAL AID PROJECT NO.	TYPE CODE	UPC NO.	LENGTH INCLUDING BRIDGE(S)		LENGTH EXCLUDING BRIDGE(S)		TYPE PROJECT	CONSTRUCTION BASELINE	DESCRIPTION
					FEET	MILES	FEET	MILES			
0495-029-419	PE-101	NHPP-495-5(095)	PENG	113414	16,976.40	3.215	16,808.84	3.183	Prelim. Eng.	495 NB XL	Fr: 0.31 MI. S. of DTR_RMP_E1 Overpass to 0.504 MI. N. of L.O.D. Overpass
	C-501	NHPP-495-5(095)	1000	115401	13,583.40	2.572	13,415.84	2.541	Construction	495 NB XL	Fr: 0.33 MI. N. of DTR_RMP_E1 Overpass to 0.504 MI. N. of L.O.D. Overpass
	RW-201	NHPP-495-5(095)	ROWA	115401	13,277.28	2.515	13,109.72	2.483	Right of Way	495 NB XL	Fr: 0.507 MI. N. of DTR_RMP_E1 Overpass to 0.578 MI. N. of L.O.D. Overpass
	B-631	NHPP-495-5(095)	X231	115401	102.67	0.019	-	-	Bridge	495 GP NB	1495 NB GP Over Ramp E1 and Ramp G3
	B-632	NHPP-495-5(095)	X231	115401	357.53	0.068	-	-	Bridge	Ramp E1	DTR Ramp E1 Over DRT EB & DAR
	B-633	NHPP-495-5(095)	X231	115401	447.51	0.085	-	-	Bridge	Ramp E1	DTR Ramp E1 Over DTR WB & 1495 NB GP
	B-634	NHPP-495-5(095)	X231	115401	463.69	0.088	-	-	Bridge	Lewinsville Road	Lewinsville Road Over 1495
	B-635	NHPP-495-5(095)	X231	115401	440.86	0.083	-	-	Bridge	Old Dominion	Old Dominion Dr. Over 1495
	B-636	NHPP-495-5(095)	X231	115401	167.56	0.032	-	-	Bridge	495 NB XL	1495 GP & EXP NB & SB Over Scotts Run
	B-637	NHPP-495-5(095)	X231	115401	292.08	0.055	-	-	Bridge	Georgetown	Georgetown Pike Over 1495
	B-638	NHPP-495-5(095)	X231	115401	141.21	0.027	-	-	Bridge	Ramp NW	Georgetown Pike Ramp NW Over Ramp GWMP
	B-639	NHPP-495-5(095)	X231	115401	347.20	0.066	-	-	Bridge	Live Oak	Live Oak Dr. Over 1495
	B-640	NHPP-495-5(095)	X231	115401	519.82	0.098	-	-	Bridge	Ramp E22	George Washington Mem. Prkwy. Ramp E22 Over 1495
	B-641	NHPP-495-5(095)	X231	115401	635.84	0.120	-	-	Bridge	Ramp E21	George Washington Mem. Prkwy. Ramp E21 Over 1495 SB
	B-642	NHPP-495-5(095)	X231	115401	22.23	0.004	-	-	Bridge	Balls Hill SUP	Ramp G23 Over Balls Hill Trail
	B-643	NHPP-495-5(095)	X231	115401	361.44	0.068	-	-	Bridge	Ramp E22	George Washington Mem. Prkwy. Ramp E22 Over 1495
	B-644	NHPP-495-5(095)	X231	115401	361.09	0.068	-	-	Bridge	Ramp G21	George Washington Mem. Prkwy. Ramp G21 Over 1495
D-601	NHPP-495-5(095)	X018	115401	22.07	0.004	-	-	Dual Box Culv.	Ramp E3	From Sta. 22+02.10 to Sta. 22+24.17	
D-602	NHPP-495-5(095)	X018	115401	46.20	0.009	-	-	Triple Box Culv.	495 NB XL	From Sta. 576+00.69 to Sta. 576+46.89	
D-603	NHPP-495-5(095)	X018	115401	14.90	0.003	-	-	Dual Box Culv.	495 NB XL	From Sta. 601+66.58 to Sta. 601+81.48	
D-604	NHPP-495-5(095)	X018	115401	14.90	0.003	-	-	Single Box Culv.	495 NB XL	From Sta. 612+20.49 to Sta. 612+27.49	

RECOMMENDED FOR APPROVAL FOR CONSTRUCTION	
DATE	(DESIGN-BUILD FIRM) DESIGN MANAGER
DATE	(DESIGN-BUILD FIRM) PROJECT MANAGER
DATE	VDOT PROJECT MANAGER
DATE	VDOT DISTRICT CONSTRUCTION ENGINEER OR PPTA PROGRAM MANAGER
APPROVED FOR CONSTRUCTION	
DATE	CHIEF ENGINEER

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FAIRFAX PROJECT VDOT PROJECT SHEET NO. 0495-029-419 1

APPROVED FOR CONSTRUCTION

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



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 Jakomilich, PE, (703) 849-0651  
 SUBSURFACE UTILITY BY, DATE Accumark - Michael Taylor, LS, (703) 635-3060, 12/2021

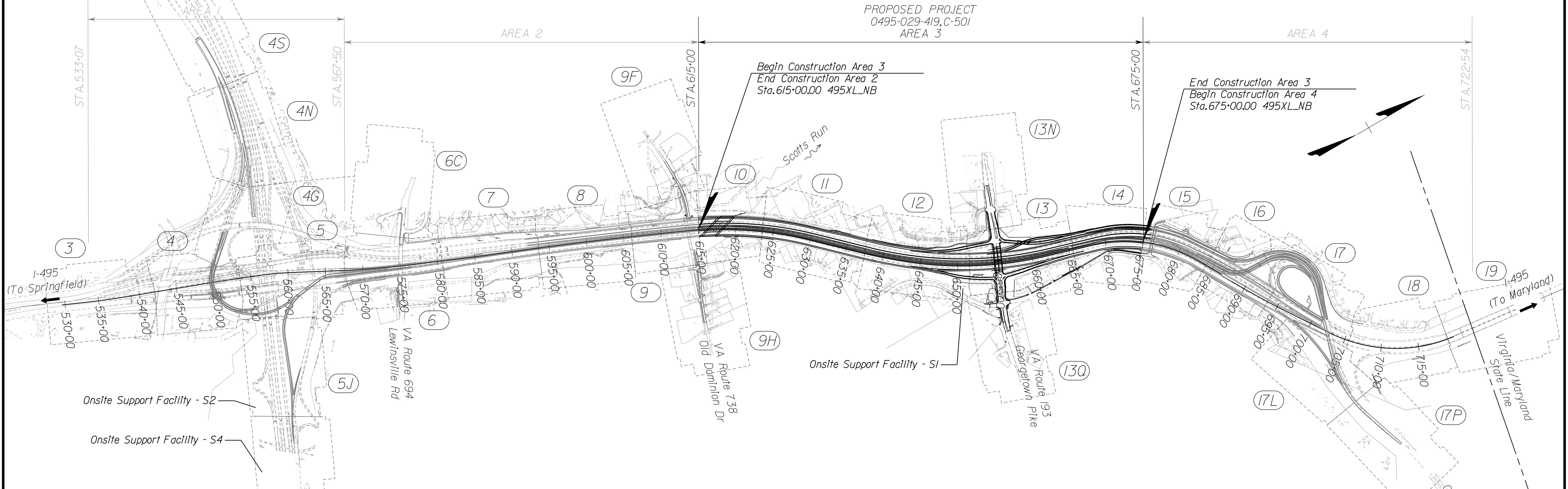
DESIGN EXCEPTIONS FOR PROJECT					
IDENTIFICATION NO.	AREA	LOCATION	DESIGN SPEED (MPH)	REASONS FOR EXCEPTION	APPROVAL DATE
DE-B1	1	I-495 BRIDGE OVER DTR RAMP E1/G3 I-495 GP NB Sta. 1053+00 to 1054+50	60 MPH	SUPERELEVATION	-
DE-B2	3	I-495 BRIDGE OVER SCOTTS RUN I-495 XL NB Sta. 611+00 to Sta. 628+32	70 MPH	SUPERELEVATION	-
DE-1	1	DTR RAMP E1/DTR RAMP E3 DTR RAMP E1 Sta. 40+00 to 42+25	30 MPH	LENGTH OF RAMP	-
DE-P	3/4	I-495 XL NB Sta. 669+00 to 672+00 I-495 NB Sta. 709+00 to 718+00 GWMP Ramp F33 Sta. 7+80 to 11+50	30 MPH	SHOULDER WIDTH	-
DE-Q	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 3

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 RAMP (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	40 MPH	60 MPH	40 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

SCALE 0 650' 1300'

VDOT PROJECT NO. 0495-029-419

SHEET NO. 1A AREA 3

APPROVED FOR CONSTRUCTION

NOVA DISTRICT



PROJECT MANAGER VDOT - Rapid Shab, EE, (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

Table with columns: SHEET NO., DESCRIPTION OF SHEETS. Lists sheets from 1 to 130C3, including titles like 'Project Index of Sheets for Area 3', 'Survey Drainage Descriptions', and 'Temporary Traffic Control Plans'.

INDEX OF SHEETS

Table with columns: SHEET NO., DESCRIPTION OF SHEETS. Lists sheets from 10 to 2K2, including titles like 'Not Used', 'Temporary Traffic Control Plans', and 'Drainage Descriptions'.

INDEX OF SHEETS

Table with columns: SHEET NO., DESCRIPTION OF SHEETS. Lists sheets from 2K13 to 12RW, including titles like 'Drainage Descriptions', 'Storm Sewer Profiles', and 'Right-of-Way Plan Sheet'.

Table with columns: REVISION, STATE, ROUTE, VDOT PROJECT NO., SHEET NO. Shows state VA, route 495, project 0495-029-419 C501 RW201, and sheet 1B AREA 3.

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







PROJECT MANAGER VDOT - Bitopal Saha, 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  
 Dewberry - Rao Jakamlatich, PE, (703) 849-0651  
 SUBSURFACE UTILITY BY, DATE, Accumar - Mitchell Taylor, LS, (703) 635-3060, 12/2021

# Right of Way Data Sheet

## Area 1 thru Area 4

REVISED RW001 RW002	STATE	ROUTE	STATE	VDOT PROJECT NO.	SHEET NO.
	VA.	495		0495-029-419 C501 RW201	IC AREA 3

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

PROJECT ASSIGNED PARCEL NO.	LANDOWNER	PROJECT LOCATION	PLAN SHEET NO.	AREA																PROFFERS YES / NO	FAIRFAX TAX MAP ID	
				TOTAL ACRES	FEE TAKING SQ.FT.	PRESCRIPTIVE R/W SQ.FT.	FEE REMAINDER ACRES	EASEMENT										TEMPORARY CONSTRUCTION				
								PERMANENT					VDOT Utility SQ.FT.	Dom. VZN VDOT Utility SQ.FT.	Dom. Energy Utility SQ.FT.	Dom. VDOT Utility SQ.FT.	SLOPES SQ.FT.	ENTRANCES & PARKING LOTS SQ.FT.	-			
								DRAINAGE SQ.FT.	DRAIN.SLOPE SQ.FT.	DRAIN.WALL SQ.FT.	SLOPE SQ.FT.	WALL SQ.FT.										
001	ALI-REZA NOURI-MESBAHI & ANASTASIA SHISHKINA, TRUSTEES	A2	9H	2,107	1,214	-	2,079	-	-	-	-	-	553	-	-	-	1,970	-	-	NO	030-1 02 0005	
002	YIGUO & JIAHUA KONG, TRUSTEES	A2	9H	1,024	296	-	1,017	-	-	-	-	-	3,109	-	-	-	7,056	-	-	-	030-1 02 0031	
006	ANITA M. HERRERA, TRUSTEE	A2	9H	1,000	-	-	1,000	-	-	-	-	-	-	-	-	-	353	-	-	-	021-3 01 0038	
010	SEDELTA D. VERBLE & GHAREMON SULEYMON	A2	9H	0,422	-	-	0,422	-	-	-	-	-	-	-	-	-	-	745	-	-	-	021-3 01 0040
011	PATRICK O. MCGAREY & BARBARA M. MCGAREY	A2	9H	1,116	-	-	1,116	-	-	-	-	-	-	-	-	-	480	855	-	-	021-3 01 0072A	
012	PRANAY PRAKASH & PREETI KUMAR	A2	9H	1,142	733	-	1,125	-	-	-	5,522	-	-	-	-	-	1,075	571	-	-	021-3 01 0072D	
013	CHARNG LIU & MARY DEEM	A2 & 3	9,9H,10	1,465	1,826	-	1,423	-	-	-	6,862	-	-	-	-	-	1,490	-	-	-	021-3 01 0072C	
022	OMAR MOHAMMAD EL-RASHED & ELJANA EYAD ALBELBAISI	A3	11	0,464	-	-	0,464	-	-	-	-	-	-	-	-	-	1,458	-	-	-	021-3 15 0003	
023	JINSOO LEE & WOOLJA LEE	A3	11	0,541	-	-	0,541	-	-	-	117	-	-	-	-	-	1,114	-	-	-	021-3 15 0004	
025	TRUSTEES OF MCLEAN PRESBYTERIAN CHURCH	A3	11,12	8,886	-	-	8,886	-	-	1,639	-	-	5,084	-	-	-	2,561	-	-	-	021-3 15 0018B	
028	TRINITY GROUP, LLC	A3	13,130,14	5,460	19,340	-	5,016	-	-	-	4,450	-	-	-	-	3,239	2,815	-	-	-	021-3 01 0056A	
029	JOHN A. LECHUS & LINDA F. LECHUS	A4	15	1,687	9,768	-	1,463	-	-	1,419	-	-	-	-	-	-	5,807	-	-	-	021-1 02 0056A	
030	GEORGE JOSEPH GARNER, TRUSTEE & SAMANTHA BURRIS GARNER, TRUSTEE	A4	15,16	1,818	4,877	-	1,706	-	-	1,719	-	-	-	-	-	-	3,466	-	-	-	021-1 02 0054A	
032	HENGXIANG YANG & PING ZHOU, CO-TRUSTEES	A4	16	0,978	-	-	0,978	-	-	-	-	-	-	-	-	-	612	-	-	-	021-2 03 0039	
033	CHRISTINA KANO	A4	16	0,900	-	-	0,900	-	-	-	-	-	-	-	-	-	173	-	-	-	021-2 03 0093R	
034	VINEET VENUGOPAL & MADHAVI LATHA MENON	A4	16	1,052	4,410	-	0,951	-	-	2,702	-	-	-	-	-	-	2,006	-	-	-	021-2 03 0094R	
035	LABIB JOSEPH CHAMMAS & JUDITH ANN CHAMMAS, TRUSTEES	A4	16,17	0,697	3,283	-	0,622	-	-	2,798	-	-	-	-	-	-	-	-	-	-	021-2 03 0095R	
036	RUKIYE YUCEL & ERCAN YUCEL	A4	17	0,575	2,801	-	0,511	-	-	2,387	-	-	-	-	-	-	1,272	-	-	-	021-2 03 0097R	
037	ANDREW CHURCHILL & TRACEY CHURCHILL	A4	17,17L	0,550	1,007	-	0,527	-	-	1,526	-	-	-	-	-	-	5,009	-	-	-	021-2 03 0098R	
038	ALICE X. YANG & STEVEN P. ZHOU	A4	17L	0,913	-	-	0,913	-	-	-	-	-	-	-	-	-	620	-	-	-	021-02 03 0099R	
041	TIMBERLY SOUTH HOMEOWNER'S ASSOCIATION	A2	6,66,7	4,117	16,682	-	3,734	-	-	19,828	-	-	-	-	-	-	-	-	-	-	029-2 12 A	
044	TIMBERLY SOUTH HOMEOWNER'S ASSOCIATION	A2	7	3,682	15,671	-	3,322	-	-	14,973	-	-	-	-	-	-	508	-	-	-	029-2 12 C	
054	OLD DOMINION ESTATES LLC	A2	8,9	2,608	5,675	-	2,478	-	-	440	-	-	13,209	-	-	1,166	-	-	-	-	030-1 01 0064C	
055	1160 DOMINION LLC	A2	8,9	1,000	-	-	1,000	-	-	4,257	-	-	-	-	-	-	6,309	-	-	-	030-1 01 0064D	
056	1156 DOMINION LLC	A2	9	1,092	-	-	1,092	-	-	4,327	-	-	-	-	-	-	10,468	-	-	-	030-1 01 0064E	
057	1150 DOMINIO LLC	A2	9,9F	1,000	-	-	1,000	-	-	-	-	-	-	-	-	-	85	-	-	-	021-3 01 0033D	
058	TIMBERLY SOUTH HOMEOWNER'S ASSOCIATION	A2	7,8	5,545	2,535	-	5,487	-	-	24,026	-	-	-	-	-	-	9,147	-	-	-	030-1 21 D	
059	HUMAM K. ALATHARI & TANIA ALCHALABI	A2	9,9F	1,398	-	-	1,398	-	-	782	-	-	-	-	-	936	-	-	-	-	021-3 01 0033A	
060	OLIVIA ZAIYA	A2	9F	1,024	-	-	1,024	-	-	761	-	-	-	-	-	-	-	333	-	-	-	021-3 01 0033B
064	WILLIAM R. CHARYK & CHOON L. CHARYK	A2	9F	1,000	-	-	1,000	-	-	593	-	-	-	-	-	-	-	-	-	-	021-3 01 0035B	
065	DACHAO RUAN & ANABELA NOGUEIRA DO ESPIRITO SANTO	A2	9,9F	0,900	-	-	0,900	-	-	14,847	-	-	455	-	-	-	-	195	-	-	-	021-3 01 0035C
066	SUSAN BOOTH CASSIDY & JAMES JOSEPH CASSIDY, JR.	A2 & 3	9,9F,10	1,025	-	-	1,025	-	-	8,540	-	-	-	-	-	3,314	-	-	-	-	021-3 01 0035	
067	SCOTT'S RUN HOMEOWNERS ASSOCIATION	A2 & 3	9F,10	12,532	3,621	-	12,449	-	-	30,089	-	-	1,786	-	-	871	-	-	-	-	021-3 12 A	
069	WILLIAM F. JOHNSTON, TRUSTEE & WILLIAM F. JOHNSTON, JR., TRUSTEE	A3	10,11	2,019	-	-	2,019	-	-	17,853	-	-	-	-	-	-	609	-	-	-	021-3 10 C	
070	WILLIAM F. JOHNSTON, TRUSTEE & WILLIAM F. JOHNSTON, JR., TRUSTEE	A3	11	5,057	-	-	5,057	-	-	-	-	-	-	-	-	-	4,648	-	-	-	021-3 01 0037	
071	VIRGINIA ELECTRIC AND POWER COMPANY	A3	11	2,500	2,333	-	2,446	-	-	2,066	-	-	-	-	-	-	3,469	-	-	-	021-3 01 0037A	
072	WILLIAM M. AMBLER & ELEONOR L. AMBLER	A3	11	1,419	-	-	1,419	-	-	-	-	-	-	-	206	-	-	-	-	-	021-3 14 0001	
073	WAJDI BUSTANI & SYLVIA BUSTANI	A3	11,12	1,194	2,054	-	1,147	-	-	3,707	624	-	-	-	5,941	-	2,946	-	-	-	021-3 14 0002	
074	CRAIG A. TENNEY & SUSAN TENNEY	A3	12	1,064	3,068	-	0,994	-	-	1,054	-	-	-	-	3,049	-	2,532	-	-	-	021-3 14 0003	
075	BEAUFORT PARK HOMEOWNERS ASSOCIATION, INC.	A3	12,13,13N	5,094	32,650	-	4,344	-	-	360	8,171	2,615	-	-	-	1,382	-	8,926	-	-	-	021-3 26 A
078	JEFFREY G. BLAIR, TRUSTEE & CHAU T. BLAIR, TRUSTEE	A3	13,13N	1,253	-	-	1,253	-	-	-	-	-	-	-	3,066	-	524	-	-	-	021-3 23 0017	
079	FAIRFAX COUNTY PARK AUTHORITY	A3 & 4	13,14,15	328,626	28,603	-	327,969	-	-	8,857	-	-	12,597	-	-	-	7,174	-	-	-	021-1 01 0003	
081	LANGLEY CLUB, INC.	A4	15	3,250	-	-	3,250	-	-	-	-	-	4,098	-	-	-	2,765	5,945	-	-	021-1 01 0008A	
082	SIVAKUMAR V. VEMURI & KALYANI S. VEMURI	A4	15,16	1,252	-	-	1,252	-	-	2,283	-	-	344	-	-	-	107	-	-	-	021-1 05 0001	
086	THE PRESERVE AT SCOTT'S RUN HOMEOWNERS ASSOCIATION	A2	7,8	9,202	-	-	9,202	-	-	11,845	-	-	-	-	-	-	-	-	-	-	030-1 33 D	
088	RAJAN ZUMOT & KATHY M. ZUMOT	A2 & 3	9H,10	0,905	-	-	0,905	-	-	-	-	-	-	-	-	-	445	-	-	-	021-3 01 007 2B	
089	APRIL GEORGELAS	A4	15,16	2,817	-	-	2,817	-	-	969	-	-	-	-	-	-	885	-	-	-	021-1 01 0007	
090	7601 LEWINSVILLE ROAD OFFICE CONDOMINIUM ASSOCIATION	A2	6	4,010	-	-	4,010	-	-	283	-	-	-	-	-	-	-	595	-	-	0301 32 0100-400	
TOTAL							162,447	0		45,189	131,180	22,094	54,573	832	8,944	3,066	16,865	3,239	119,777	9,239	0	

NOVA DISTRICT



PROJECT MANAGER VDOT - *Ritpal 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 Accurark - *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 3

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 3

NOVA DISTRICT

APP. FOR ROW





PROJECT MANAGER: VDOT - Rupal 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
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 3

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

Table with 2 columns: VDOT Project Coordinates (Legacy) and VA State Plane Coordinates. Includes scale factor, project info, and conversion instructions.

Table with 2 columns: VDOT Project Coordinates (Legacy) and VA State Plane Coordinates. Includes scale factor, project info, and conversion instructions.

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

Table with 6 columns: Station ID, North, East, Elevation, State Plane North, State Plane East. Lists points 001 through 006.

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

Large table listing survey control points with columns for Station ID, North, East, Elevation, State Plane North, State Plane East, and State Plane West. Lists points 15010 through 518.

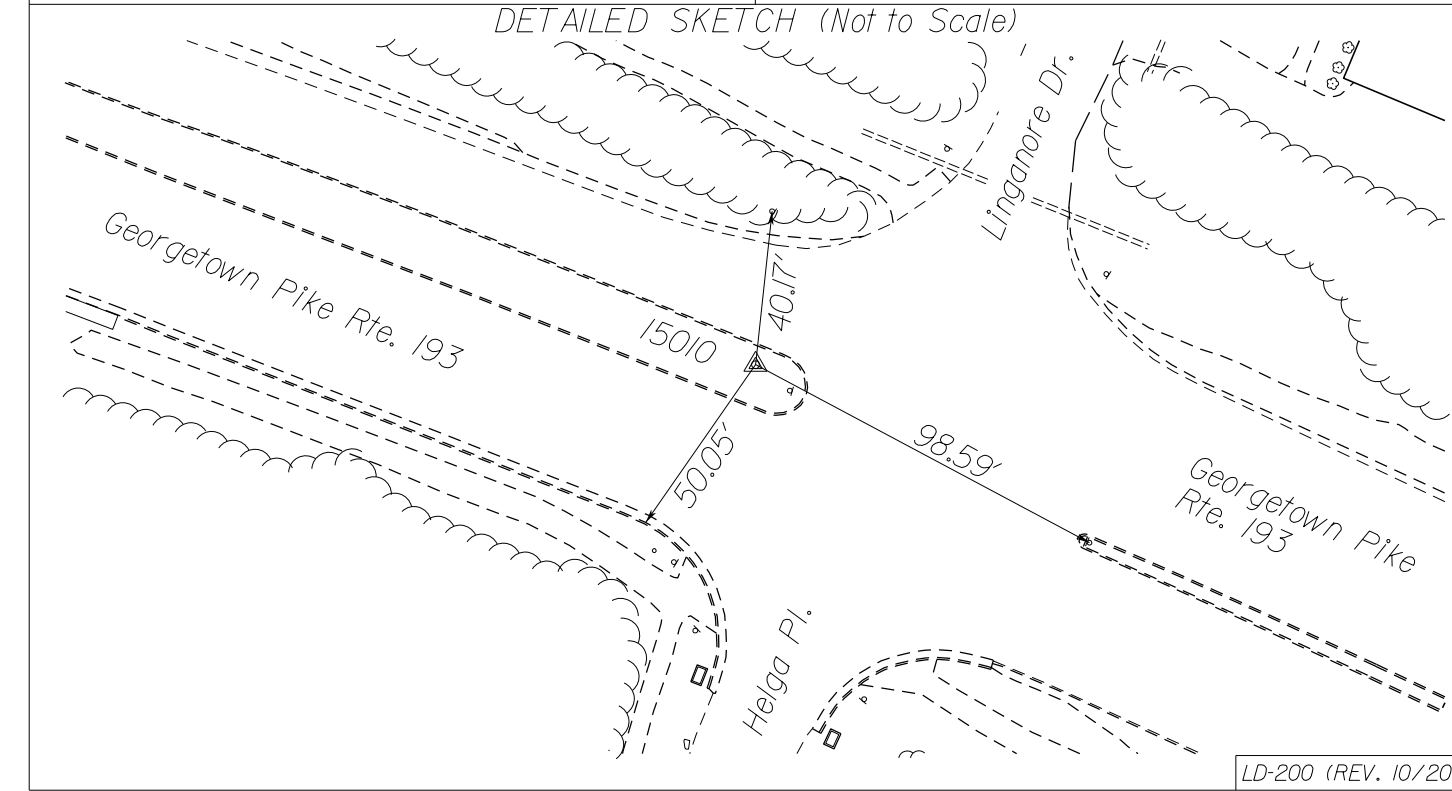
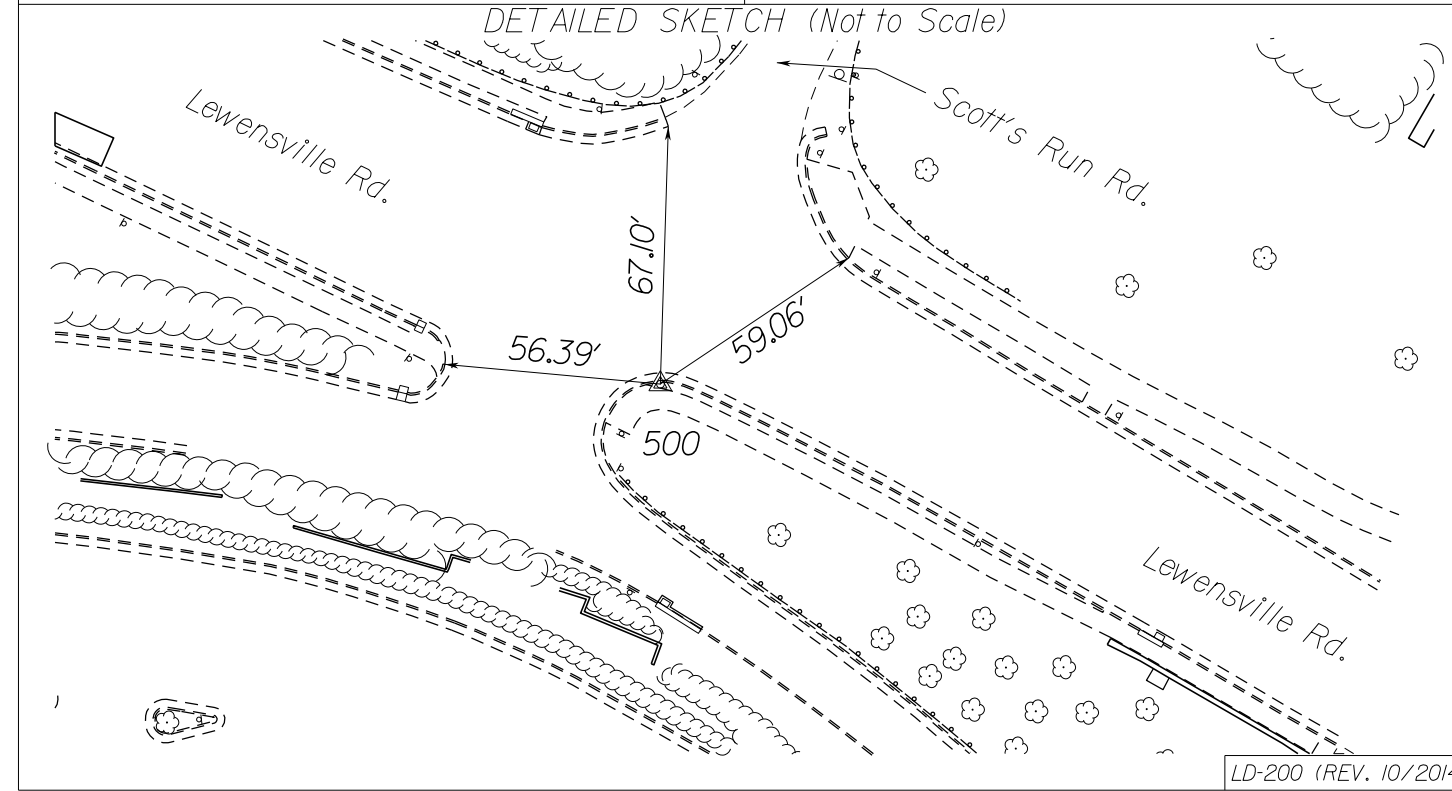
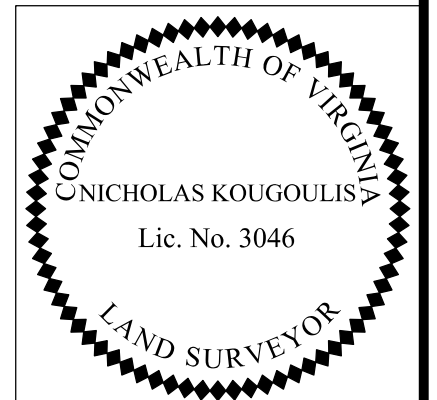
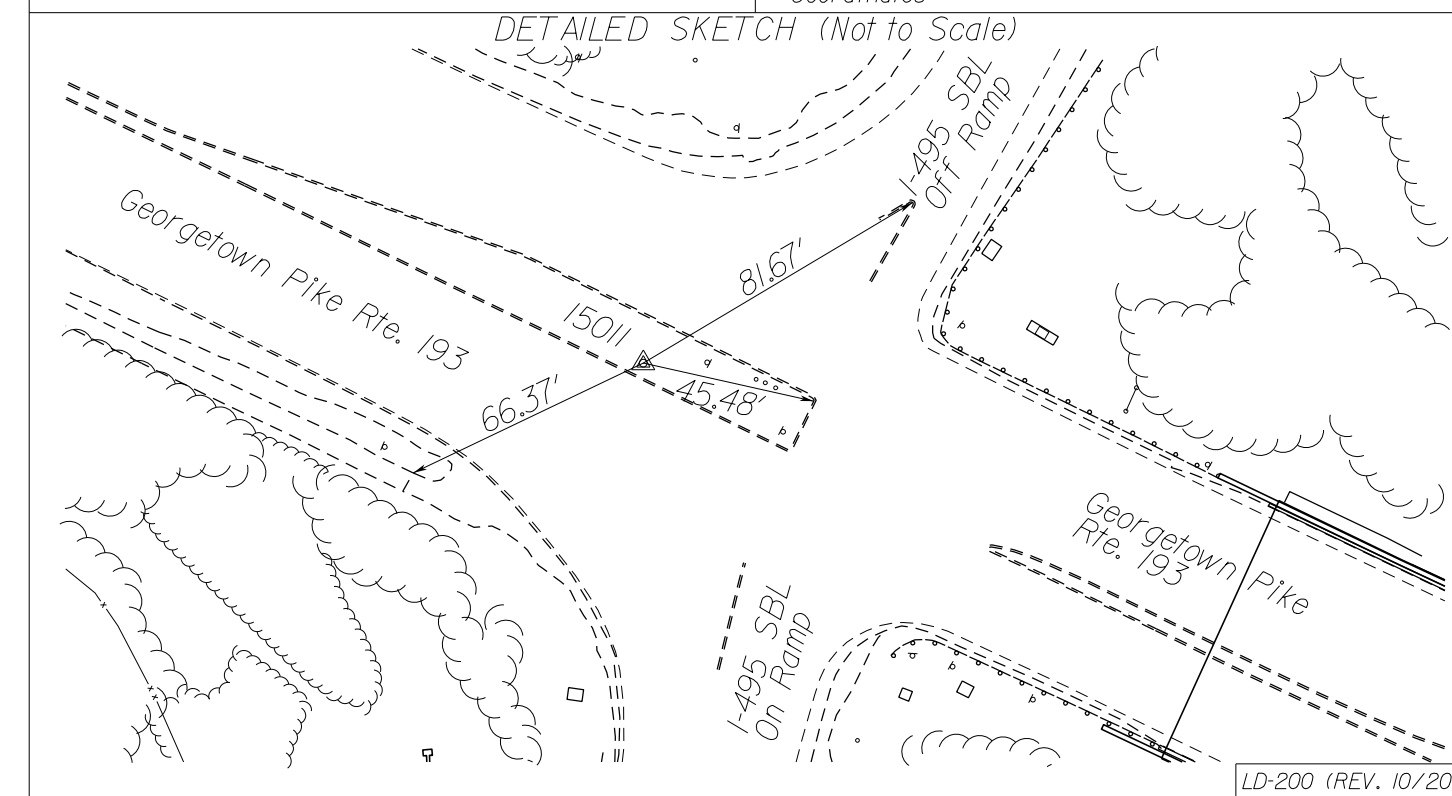
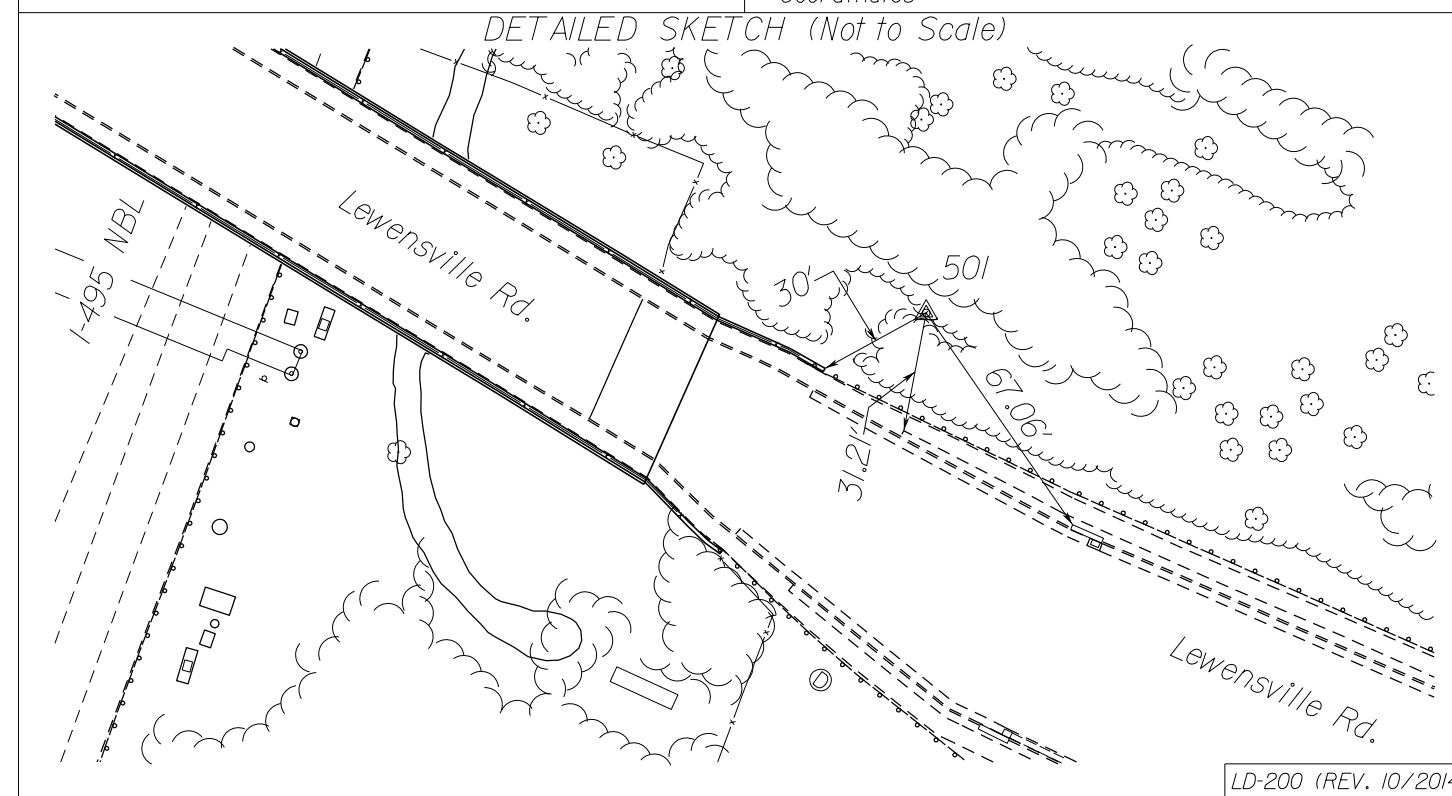


Table with 2 columns: VDOT Project Coordinates (Legacy) and VA State Plane Coordinates. Includes scale factor, project info, and conversion instructions.

Table with 2 columns: VDOT Project Coordinates (Legacy) and VA State Plane Coordinates. Includes scale factor, project info, and conversion instructions.



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

Table with 2 columns: VDOT PROJECT NO. (0495-029-419) and SHEET NO. (IF AREA 3)

APPROVED FOR CONSTRUCTION

NOVA DISTRICT

10/26/2022



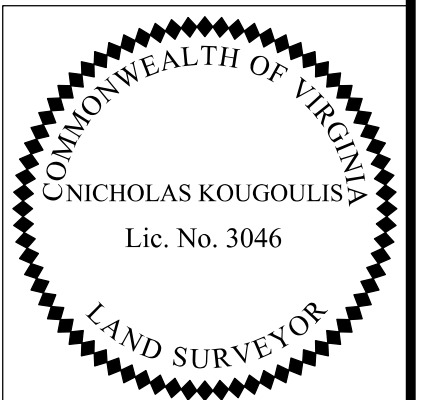
PROJECT MANAGER VDOT - RitaPal.Shab.PE.(703)259-2362  
SURVEYED BY, DATE RDA - Nicholas Kougoulis LS.(703)334-0837, 12/2021  
DESIGN BY RDA - Darrell Fischer PE.(703)334-0823  
Newberry - Ron Jakomilich PE.(703)849-0651  
SUBSURFACE UTILITY BY, DATE Accurmark - Michael Taylor LS.(703)635-3060, 12/2021

# Survey Drainage Descriptions

REVISED	STATE	ROUTE	STATE	VDOT PROJECT NO.	SHEET NO.
	VA.	495		0495-029-419 C501 RW201	IF(5) AREA 3

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

- 001 In Pl. SSMH  
Rim = 133.40'  
Inv. In = 127.23'  
In Pl. 24" Conc. Pipe  
Inv. Out = 127.08'
- 002 In Pl. Metal Grate  
Rim = 148.91'  
Inv. In = 143.99'  
In Pl. 24" Conc. Pipe  
Inv. Out = 130.24'
- 003 In Pl. Metal Grate  
Rim = 149.15'  
In Pl. 15" Conc. Pipe  
Inv. Out = 144.12'  
(Surcharged)
- 004 In Pl. Conc. Endwall  
In Pl. 54" x 60" Metal Pipe  
Inv. Out = 110.27'
- 005 In Pl. Conc. Headwall  
Inv. In = 143.54'  
In Pl. 54" x 60" Metal Pipe
- 006 In Pl. Conc. Endwall  
In Pl. 24" Conc. Pipe  
Bottom Of Structure = 202.09'  
(Surcharged)
- 007 In Pl. Metal Grate  
Rim = 152.55'  
In Pl. 24" Conc. Pipe  
Bottom Of Structure = 139.21'
- 008 In Pl. Metal Grate  
Rim = 155.50'  
Inv. In = 150.36'  
In Pl. 24" Conc. Pipe  
Inv. Out = 150.34'
- 009 In Pl. Metal Grate  
Rim = 157.83'  
Inv. In = 153.80'  
In Pl. 24" Conc. Pipe  
Inv. Out = 153.48'
- 010 In Pl. Metal Grate  
Rim = 165.42'  
Inv. In = 160.27'  
In Pl. 24" Conc. Pipe  
Inv. Out = 160.22'
- 011 In Pl. Metal Grate  
Rim = 165.95'  
Inv. In = 161.88'  
In Pl. 24" Conc. Pipe  
Inv. Out = 161.87'
- 012 In Pl. Metal Grate  
Rim = 173.60'  
Inv. In = 169.81'  
In Pl. 24" Conc. Pipe  
Inv. Out = 169.65'
- 013 In Pl. Metal Grate  
Rim = 175.43'  
Inv. In = 170.93'  
In Pl. 18" Conc. Pipe  
Inv. Out = 170.91'
- 014 In Pl. 24" Metal Pipe  
Inv. Out = 175.43'
- 015 In Pl. 24" Metal Pipe  
Inv. In = 181.82'
- 016 In Pl. Metal Grate  
Rim = 181.23'  
Inv. In = 177.62'  
In Pl. 18" Conc. Pipe  
Inv. Out = 177.56'
- 017 In Pl. Metal Grate  
Rim = 187.08'  
Inv. In = 183.70'  
In Pl. 15" Conc. Pipe  
Inv. Out = 182.62'
- 018 In Pl. Metal Grate  
Rim = 192.19'  
Inv. In = 188.10'  
In Pl. 15" Conc. Pipe  
Inv. Out = 188.05'
- 019 In Pl. Metal Grate  
Rim = 193.33'  
Inv. In = 189.51'
- 020 In Pl. Metal Grate  
Rim = 188.25'  
Inv. In = 185.11'  
In Pl. 18" Conc. Pipe  
Inv. Out = 184.95'
- 021 In Pl. Metal Grate  
Rim = 191.52'  
(a) Inv. In = 187.84'  
(b) Inv. In = 187.47'  
In Pl. 15" Conc. Pipe  
Inv. Out = 187.45'
- 022 In Pl. Metal Grate  
Rim = 193.42'  
In Pl. 15" Conc. Pipe  
Inv. Out = 189.87'
- 023 In Pl. Metal Grate  
Rim = 196.12'  
In Pl. 15" Conc. Pipe  
Inv. Out = 191.18'
- 024 In Pl. FES  
In Pl. 18" Conc. Pipe  
Inv. Out = 201.98'
- 025 In Pl. Metal Grate  
Rim = 207.51'  
Bottom Of Structure = 202.07'  
In Pl. 18" Conc. Pipe
- 026 In Pl. Metal Grate  
Rim = 208.12'  
Bottom Of Structure = 202.09'  
(Surcharged)
- 027 In Pl. Metal Grate  
Rim = 208.85'  
Bottom Of Structure = 202.75'  
In Pl. 15" Metal Pipe
- 028 In Pl. Metal Grate  
Rim = 210.55'  
Bottom Of Structure = 207.05'  
In Pl. Conc. Pipe
- 029 In Pl. FES  
In Pl. 15" Metal Pipe  
Inv. Out = 201.97'
- 030 In Pl. Slot Drain  
Rim = 209.02'  
Inv. Out = 205.97'  
In Pl. 15" Metal Pipe
- 031 In Pl. Metal Grate  
Rim = 210.18'  
Bottom Of Structure = 206.37'  
In Pl. 15" Conc. Pipe
- 032 In Pl. Metal Grate  
Rim = 210.28'  
Bottom Of Structure = 206.68'  
In Pl. 15" Conc. Pipe
- 033 In Pl. Metal Grate  
Rim = 213.97'  
In Pl. 15" Conc. Pipe  
Inv. Out = 210.85'
- 034 In Pl. Metal Grate  
Rim = 213.11'  
(a) Inv. In = 208.99'  
(b) Inv. In = 208.99'  
In Pl. 18" Plastic Pipe  
Inv. Out = 208.81'
- 035 In Pl. 18" Plastic Pipe  
Inv. Out = 195.09'
- 036 In Pl. Conc. Headwall  
Inv. In = 186.18'  
In Pl. 57" x 60" Metal Pipe
- 037 In Pl. Metal Grate  
Rim = 213.41'  
Bottom Of Structure = 209.96'  
In Pl. 15" Conc. Pipe
- 038 In Pl. Metal Grate  
Rim = 213.55'  
In Pl. 15" Conc. Pipe  
Inv. Out = 210.37'
- 039 In Pl. Conc. Endwall  
In Pl. 57" x 60" Metal Pipe  
Inv. Out = 172.79'
- 040 In Pl. Conc. Headwall  
In Pl. 60" Metal Pipe  
Inv. Out = 163.52'
- 041 In Pl. Conc. Endwall  
In Pl. 60" Metal Pipe  
Inv. Out = 151.44'
- 042 In Pl. Conc. Endwall  
In Pl. 72" Metal Pipe  
Inv. Out = 150.90'
- 043 In Pl. Conc. DI  
Rim = 213.24'  
Bottom Of Structure = 210.65'  
In Pl. 60" Conc. Pipe
- 044 In Pl. 12" Conc. Pipe  
Inv. Out = 214.50'
- 045 In Pl. 12" Conc. Pipe  
Inv. In = 214.54'
- 046 In Pl. Conc. Endwall  
In Pl. 15" Conc. Pipe  
Inv. Out = 213.51'
- 047 In Pl. Metal Grate/Slot Drain  
Rim = 218.51'  
In Pl. 15" Conc. Pipe  
Inv. Out = 215.80'
- 048 In Pl. Metal Grate  
Rim = 221.88'  
Bottom Of Structure = 218.11'  
In Pl. Conc. Pipe
- 049 In Pl. Metal Grate  
Rim = 223.06'  
Bottom Of Structure = 216.30'  
In Pl. 18" Conc. Pipe
- 050 In Pl. Metal Grate  
Rim = 221.67'  
(a) Inv. In = 212.77'  
(b) Inv. In = 216.81'  
In Pl. 18" Plastic Pipe  
Inv. Out = 212.64'
- 051 In Pl. Conc. Endwall  
In Pl. 18" Plastic Pipe  
Inv. Out = 211.32'
- 052 In Pl. Metal Grate  
Rim = 221.93'  
In Pl. 15" Conc. Pipe  
Inv. Out = 218.19'
- 053 In Pl. Endwall  
In Pl. 15" Conc. Pipe  
Inv. Out = 220.50'
- 054 In Pl. Metal Grate w/ Slot Drain  
Rim = 224.55'  
Bottom Of Structure = 221.73'  
In Pl. 15" Conc. Pipe
- 055 In Pl. Conc. Headwall  
In Pl. 30" Metal Pipe  
Inv. Out = 205.98'
- 056 In Pl. Conc. Endwall  
In Pl. 15" Conc. Pipe  
Inv. Out = 225.99'
- 057 In Pl. Metal Grate/Slot Drain  
Rim = 231.75'  
In Pl. 15" Conc. Pipe  
Inv. Out = 226.85'
- 058 In Pl. Metal Grate  
Rim = 233.11'  
Bottom Of Structure = 229.34'  
In Pl. Conc. Pipe
- 059 In Pl. Metal Grate  
Rim = 233.41'  
Bottom Of Structure = 226.65'  
In Pl. 18" Conc. Pipe
- 060 In Pl. Metal Grate  
Rim = 232.37'  
(a) Inv. In = 227.34'  
(b) Inv. In = 225.55'  
In Pl. 18" Plastic Pipe  
Inv. Out = 225.09'
- 061 In Pl. Conc. Endwall  
In Pl. 18" Plastic Pipe  
Inv. Out = 183.80'
- 062 In Pl. Metal Grate  
Rim = 232.90'  
In Pl. 15" Conc. Pipe  
Inv. Out = 228.99'
- 063 In Pl. Conc. Headwall  
In Pl. 72" Metal Pipe  
Inv. Out = 178.32'
- 064 In Pl. Conc. DI  
Rim = 224.30'  
Inv. Out = 221.45'  
In Pl. 15" Conc. Pipe
- 065 In Pl. 15" Conc. Pipe  
Inv. Out = 220.95'
- 066 In Pl. 60" Conc. Pipe  
Inv. Out = 220.12'
- 067 In Pl. SSMH  
Rim = 240.28'  
(Unable to Open)
- 068 In Pl. Metal Grate  
Rim = 240.48'  
Bottom Of Structure = 235.36'  
In Pl. 15" Conc. Pipe
- 069 In Pl. Metal Grate  
Rim = 240.02'  
Bottom Of Structure = 235.50'  
In Pl. Conc. Pipe
- 070 In Pl. Conc. DI  
Rim = 230.89'  
Inv. Out = 226.79'  
In Pl. 15" Conc. Pipe  
(Terminus not Found)
- 071 In Pl. 15" Conc. Pipe  
Inv. Out = 236.57'
- 072 In Pl. Metal Grate  
Rim = 241.00'  
Bottom Of Structure = 237.58'  
In Pl. 15" Conc. Pipe
- 073 In Pl. SSMH  
Rim = 247.51'  
Bottom Of Structure = 235.72'  
In Pl. 60" Metal Pipe
- 074 In Pl. Headwall  
Inv. In = 239.78'  
In Pl. 60" Metal Pipe  
Inv. Out = 239.24'
- 075 In Pl. Metal Grate  
Rim = 253.08'  
Bottom Of Structure = 243.35'  
In Pl. 36" Conc. Pipe
- 076 In Pl. Metal Grate  
Rim = 249.92'  
Bottom Of Structure = 245.00'  
In Pl. 15" Conc. Pipe
- 077 In Pl. Metal Grate  
Rim = 249.91'  
Bottom Of Structure = 246.25'  
In Pl. Conc. Pipe
- 078 In Pl. Metal Grate  
Rim = 248.92'  
Bottom Of Structure = 241.56'  
In Pl. Conc. Pipe
- 079 In Pl. Metal Grate  
Rim = 246.48'  
Bottom Of Structure = 242.66'  
In Pl. 18" Conc. Pipe
- 080 In Pl. 18" Conc. Pipe  
Inv. Out = 242.13'
- 081 In Pl. 48" Conc. Pipe  
Inv. Out = 239.23'
- 082 In Pl. 48" Conc. Pipe  
Inv. In = 239.44'
- 083 In Pl. Metal Grate  
Rim = 258.23'  
Bottom Of Structure = 249.69'  
In Pl. 36" Conc. Pipe
- 084 In Pl. Metal Grate  
Rim = 255.54'  
Bottom Of Structure = 252.62'  
In Pl. 15" Conc. Pipe
- 085 In Pl. Metal Grate  
Rim = 255.76'  
Bottom Of Structure = 252.87'  
In Pl. Conc. Pipe
- 086 In Pl. Metal Grate  
Rim = 279.78'  
Bottom Of Structure = 248.25'  
In Pl. 15" Conc. Pipe
- 087 In Pl. Metal Grate  
Rim = 256.73'  
Bottom Of Structure = 251.72'  
In Pl. 18" Conc. Pipe
- 088 In Pl. Metal Grate  
Rim = 263.89'  
In Pl. 15" Conc. Pipe  
Inv. Out = 260.39'
- 089 In Pl. SSMH  
Rim = 264.91'  
Bottom Of Structure = 258.04'  
In Pl. 36" Conc. Pipe
- 090 In Pl. Metal Grate  
Rim = 262.40'  
Bottom Of Structure = 259.40'  
In Pl. 15" Conc. Pipe
- 091 In Pl. Metal Grate  
Rim = 263.98'  
Bottom Of Structure = 259.61'  
In Pl. Conc. Pipe
- 092 In Pl. Conc. DI  
Rim = 281.81'  
In Pl. 15" Conc. Pipe  
Inv. Out = 273.86'
- 093 In Pl. FES  
In Pl. 15" Conc. Pipe  
Inv. Out = 271.53'
- 094 In Pl. Metal Grate  
Rim = 258.09'  
Bottom Of Structure = 254.80'  
In Pl. 15" Conc. Pipe
- 095 In Pl. SSMH  
Rim = 271.03'  
Bottom Of Structure = 263.15'  
In Pl. 36" Conc. Pipe
- 096 In Pl. Metal Grate  
Rim = 268.87'  
Bottom Of Structure = 265.43'  
In Pl. 15" Conc. Pipe
- 097 In Pl. Metal Grate  
Rim = 268.74'  
Bottom Of Structure = 265.23'  
In Pl. Conc. Pipe
- 098 In Pl. Metal Grate  
Rim = 265.60'  
Bottom Of Structure = 260.81'  
In Pl. 18" Conc. Pipe
- 099 In Pl. Metal Grate  
Rim = 264.12'  
In Pl. 15" Conc. Pipe  
Inv. Out = 261.40'
- 100 In Pl. SSMH  
Rim = 277.98'  
Bottom Of Structure = 268.45'  
In Pl. 36" Conc. Pipe
- 101 In Pl. Metal Grate  
Rim = 274.85'  
Bottom Of Structure = 270.68'  
In Pl. 15" Conc. Pipe
- 102 In Pl. Metal Grate  
Rim = 273.95'  
Bottom Of Structure = 270.87'  
In Pl. Conc. Pipe
- 103 In Pl. SSMH  
Rim = 280.64'  
Bottom Of Structure = 270.60'  
In Pl. 36" Conc. Pipe
- 104 In Pl. Metal Grate  
Rim = 277.54'  
Bottom Of Structure = 273.19'  
In Pl. 15" Conc. Pipe
- 105 In Pl. Metal Grate  
Rim = 277.35'  
Bottom Of Structure = 274.10'  
In Pl. Conc. Pipe
- 106 In Pl. Metal Grate  
Rim = 273.78'  
Bottom Of Structure = 268.86'  
In Pl. 18" Conc. Pipe
- 107 In Pl. Metal Grate  
Rim = 278.50'  
Bottom Of Structure = 272.84'  
In Pl. 36" Conc. Pipe
- 108 In Pl. Metal Grate  
Rim = 279.78'  
Bottom Of Structure = 274.23'  
In Pl. 15" Conc. Pipe
- 109 In Pl. Metal Grate  
Rim = 280.89'  
Bottom Of Structure = Inaccessable
- 110 In Pl. SSMH  
Rim = 280.65'  
Bottom Of Structure = 273.73'  
In Pl. 36" Conc. Pipe
- 111 In Pl. Metal Grate  
Rim = 281.31'  
Bottom Of Structure = 277.41'  
In Pl. 15" Conc. Pipe
- 112 In Pl. Metal Grate  
Rim = 281.51'  
Bottom Of Structure = 275.89'  
In Pl. 30" Conc. Pipe
- 113 In Pl. SSMH  
Rim = 285.09'  
(a) Inv. In = 277.62'  
(b) Inv. In = 280.45'  
In Pl. 30" Conc. Pipe  
Inv. Out = 277.19'
- 114 In Pl. Metal Grate  
Rim = 286.64'  
Bottom Of Structure = 281.92'  
In Pl. 24" Metal Pipe
- 115 In Pl. Metal Grate  
Rim = 286.64'  
Bottom Of Structure = 281.27'  
In Pl. Conc. Pipe
- 116 In Pl. SSMH  
Rim = 288.58'  
Bottom Of Structure = 282.02'  
In Pl. 24" Metal Pipe
- 117 In Pl. Metal Grate  
Rim = 288.35'  
In Pl. 18" Conc. Pipe  
Inv. Out = 283.70'
- 118 In Pl. Metal Grate  
Rim = 283.78'  
Bottom Of Structure = 279.04'  
In Pl. 24" Metal Pipe
- 119 In Pl. Metal Grate  
Rim = 291.85'  
Bottom Of Structure = 287.05'  
In Pl. Conc. Pipe
- 120 In Pl. Metal Grate  
Rim = 290.26'  
Bottom Of Structure = 285.31'  
In Pl. 18" Conc. Pipe
- 121 In Pl. Metal Grate  
Rim = 294.80'  
Bottom Of Structure = 289.74'  
In Pl. 18" Metal Pipe
- 122 In Pl. Metal Grate  
Rim = 293.52'  
Bottom Of Structure = 288.65'  
In Pl. 15" Metal Pipe
- 123 In Pl. 15" Conc. Pipe  
Inv. In = 195.19'  
In Pl. 15" Conc. Pipe  
Inv. Out = 194.35'
- 124 In Pl. 15" Conc. Pipe  
Inv. In = 203.42'  
In Pl. 15" Conc. Pipe  
Inv. Out = 202.06'
- 125 In Pl. 15" Conc. Pipe  
Inv. In = 215.85'  
In Pl. 15" Conc. Pipe  
Inv. Out = 213.51'
- 126 In Pl. 15" Conc. Pipe  
Inv. In = 224.96'  
In Pl. 15" Conc. Pipe  
Inv. Out = 224.85'
- 127 In Pl. 15" Conc. Pipe  
Inv. In = 227.55'  
In Pl. 15" Conc. Pipe  
Inv. Out = 226.75'
- 128 In Pl. 15" Conc. Pipe  
Inv. In = 229.09'  
In Pl. 15" Conc. Pipe  
Inv. Out = 228.57'
- 129 In Pl. 15" Conc. Pipe  
Inv. In = 231.12'  
In Pl. 15" Conc. Pipe  
Inv. Out = 231.02'
- 130 In Pl. 15" Conc. Pipe  
Inv. In = 232.04'  
In Pl. 15" Conc. Pipe  
Inv. Out = 231.61'
- 131 In Pl. Conc. DI  
Rim = 216.00'  
In Pl. 15" Metal Pipe  
Inv. Out = 210.00'
- 132 In Pl. FES  
In Pl. 15" Metal Pipe  
Inv. Out = 207.65'
- 133 In Pl. 15" Conc. Pipe  
Inv. Out = 217.91'  
(Abandoned)
- 134 In Pl. Conc. DI  
Rim = 199.23'  
In Pl. 15" Metal Pipe  
Inv. Out = 195.18'
- 135 In Pl. 24" Metal Pipe  
Inv. Out = 189.92'
- 136 In Pl. SSMH  
Rim = 301.74'  
(Surcharged)
- 137 In Pl. Drop Inlet  
Rim = 301.80'  
In Pl. 15" Metal Pipe  
Inv. Out = 297.82'
- 138 In Pl. SSMH  
Rim = 299.22'  
Inv. In = 292.94'  
In Pl. 15" Conc. Pipe  
Inv. Out = 245.53'
- 139 In Pl. SSMH  
Top = 292.07'  
(a) Inv. In = 280.93'  
(b) Inv. In = 280.78'  
(c) Inv. In = 280.83'  
In Pl. 2" Conc. Pipe  
Inv. Out = 278.65'
- 140 In Pl. Conc. Drop Inlet  
Rim = 236.90'  
Inv. In = 234.00'  
In Pl. 18" Conc. Pipe  
Inv. Out = 233.90'
- 141 In Pl. SSMH  
Rim = 300.79'  
(a) Inv. In = 288.54'  
(b) Inv. In = 233.20'  
In Pl. 18" Conc. Pipe  
Inv. Out = 288.46'
- 142 In Pl. Drop Inlet  
Top = 271.13'  
Inv. In = 264.47'  
In Pl. 2" Conc. Pipe  
Inv. Out = 264.45'
- 143 In Pl. Drop Inlet  
Top = 270.48'  
In Pl. 15" Conc. Pipe  
Inv. Out = 264.31'  
(Terminus Unknown)  
(Possible Blind Connection)
- 144 In Pl. Drop Inlet  
Top = 269.39'  
(Surcharged)
- 145 In Pl. Drop Inlet  
Rim = 260.71'  
Inv. In = 250.10'  
In Pl. 24" Conc. Pipe  
Inv. Out = 250.02'
- 146 In Pl. Endwall  
In Pl. 24" Conc. Pipe  
Inv. Out = 248.32'
- 147 In Pl. 15" Conc. Pipe  
Inv. In = 311.45'  
In Pl. 15" Conc. Pipe  
Inv. Out = 309.75'
- 148 In Pl. FES  
In Pl. 18" Conc. Pipe  
Inv. Out = 219.80'
- 149 In Pl. Drop Inlet  
Rim = 241.32'  
Inv. In = 224.32'  
In Pl. 18" Conc. Pipe  
Inv. Out = 223.12'
- 150 In Pl. Drop Inlet  
Rim = 229.38'  
(Full of Debris)  
In Pl. 18" Conc. Pipe  
Inv. Out = 297.93'
- 151 In Pl. Drop Inlet  
Rim = 230.01'  
(a) Inv. In = 225.81'  
(b) Inv. In = 225.71'  
In Pl. 18" Conc. Pipe  
Inv. Out = 225.65'
- 152 In Pl. Drop Inlet  
Rim = 229.98'  
Inv. In = 226.78'  
In Pl. 15" Conc. Pipe  
Inv. Out = 226.68'
- 153 In Pl. Drop Inlet  
Rim = 243.46'  
(a) Inv. In = 229.58'  
In Pl. 18" Conc. Pipe  
(b) Inv. In = (Unable to Access)  
Inv. Out = (Unable to Access)
- 154 In Pl. Drop Inlet  
Rim = 244.15'  
Inv. In = 239.43'  
In Pl. 15" Conc. Pipe  
Inv. Out = 239.35'
- 155 In Pl. Drop Inlet  
Rim = 244.53'  
Inv. In = 240.68'  
In Pl. 15" Conc. Pipe  
Inv. Out = 240.58'
- 156 In Pl. Drop Inlet  
Rim = 245.53'  
Inv. In = 241.36'
- 157 In Pl. Drop Inlet  
Rim = 237.97'  
(a) Inv. In = 233.27'  
(b) Inv. In = 233.20'  
In Pl. 18" Conc. Pipe  
Inv. Out = 233.19'
- 158 In Pl. Drop Inlet  
Rim = 298.21'  
In Pl. 24" Metal Pipe  
Inv. Out = 290.76'
- 159 In Pl. Drop Inlet  
Rim = 237.97'  
(a) Inv. In = 233.27'  
(b) Inv. In = 233.20'  
In Pl. 18" Conc. Pipe  
Inv. Out = 233.19'
- 160 In Pl. Drop Inlet  
Top = 239.05'  
Inv. In = 233.76'  
In Pl. 18" Conc. Pipe  
Inv. Out = 233.70'
- 161 In Pl. Drop Inlet  
Rim = 239.43'  
In Pl. 18" Conc. Pipe  
Inv. Out = 235.38'
- 162 In Pl. 15" Metal Pipe  
Inv. In = 289.43'  
In Pl. 15" Metal Pipe  
Inv. Out = 286.71'
- 163 In Pl. 15" CMP  
Inv. In = 261.65'  
Inv. Out = 259.58'  
Inv. Out = 259.99'
- 164 In Pl. 15" Metal Pipe  
Inv. In = 309.42'  
In Pl. 15" Metal Pipe  
Inv. Out = 309.36'
- 165 In Pl. 18" Conc. Pipe  
Inv. In = 307.29'  
In Pl. 18" Conc. Pipe  
Inv. Out = 303.32'
- 166 In Pl. Drop Inlet  
Rim = 312.12'  
In Pl. 15" Conc. Pipe  
Inv. Out = 306.52'
- 167 In Pl. Drop Inlet  
Rim = 311.87'  
Inv. In = 306.12'  
In Pl. 15" Conc. Pipe  
Inv. Out = 306.07'
- 168 In Pl. Drop Inlet  
Rim = 300.73'  
Inv. In = 297.98'  
In Pl. 18" Conc. Pipe  
Inv. Out = 297.93'
- 169 In Pl. FES  
In Pl. 18" Conc. Pipe  
Inv. Out = 297.57'
- 170 In Pl. Metal Grate  
Rim = 301.50'  
In Pl. 18" Metal Pipe  
Inv. Out = 295.04'
- 171 In Pl. Metal Grate  
Rim = 300.89'  
(Full of Debris)
- 172 In Pl. Metal Grate  
Rim = 302.19'  
(Full of Debris)



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

VDOT PROJECT NO. 0495-029-419	SHEET NO. IF(5) AREA 3
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APPROVED FOR CONSTRUCTION

NOVA DISTRICT



PROJECT MANAGER VDOT - Rinaldi, Shab, 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 Accurmark - Michael Taylor, LS, (703) 635-3060, 12/2021

# Survey Drainage Descriptions

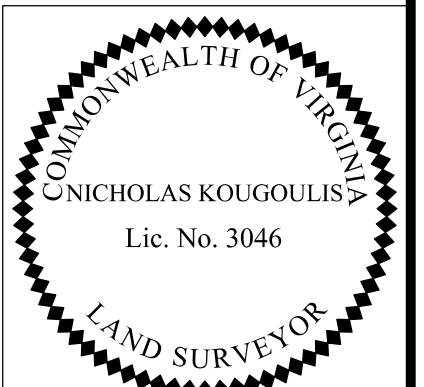
REVISED	STATE		VDOT PROJECT NO.	SHEET NO.
	STATE	ROUTE		
	VA	495	0495-029-419 C501 RW201	IF(6) AREA 3

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

- 173 In Pl. Metal Grate Rtm = 296.92' In Pl. 24" Metal Pipe Inv. Out = 293.31'
- 174 In Pl. Metal Grate Rtm = 300.94' Inv. In = 293.44' In Pl. 24" Metal Pipe Inv. Out = 293.39'
- 175 In Pl. Metal Grate Rtm = 296.00' Inv. In = 292.00' In Pl. 36" Conc. Pipe Inv. Out = 291.95'
- 176 In Pl. Metal Grate Rtm = 296.42' (a) Inv. In = 291.72' (b) Inv. In = 291.37' In Pl. 36" Conc. Pipe Inv. Out = 291.36'
- 177 In Pl. Metal Grate Rtm = 299.74' In Pl. 15" Conc. Pipe Inv. Out = 293.24'
- 178 In Pl. Metal Grate Rtm = 298.09' In Pl. 15" Conc. Pipe Inv. Out = 282.29'
- 179 In Pl. Metal Grate Rtm = 296.21' (a) Inv. In = 290.61' (b) Inv. In = 290.61' In Pl. 36" Conc. Pipe Inv. Out = 290.51'
- 180 In Pl. FES In Pl. 36" Conc. Pipe Inv. Out = 290.01'
- 181 In Pl. Conc. Endwall In Pl. 24" Metal Pipe Inv. Out = 281.17'
- 182 In Pl. Headwall Inv. In = 299.91' In Pl. 24" Metal Pipe
- 183 In Pl. 15" Conc. Pipe Inv. In = 301.33' In Pl. 15" Conc. Pipe Inv. In = 302.97'
- 184 In Pl. 24" Metal Pipe Inv. Out = 291.68'
- 185 In Pl. Metal Grate Rtm = 305.73' Bottom Of Structure = 300.89' In Pl. Conc. Pipe
- 186 In Pl. Metal Grate Rtm = 304.09' Bottom Of Structure = 296.54' In Pl. 24" Metal Pipe
- 187 In Pl. FES In Pl. 24" Metal Pipe Inv. Out = 299.96'
- 188 In Pl. 15" Conc. Pipe Inv. In = 304.06' In Pl. 15" Conc. Pipe Inv. Out = 302.34'
- 189 In Pl. 15" Conc. Pipe Inv. In = 300.94' In Pl. 15" Conc. Pipe Inv. Out = 300.48'
- 190 In Pl. Metal Grate Rtm = 301.08' In Pl. 15" Conc. Pipe Inv. Out = 299.08'
- 191 In Pl. FES In Pl. 15" Conc. Pipe Inv. Out = 298.18'
- 192 In Pl. Metal Grate Rtm = 290.76' In Pl. 15" Conc. Pipe Inv. Out = 287.21'
- 193 In Pl. FES In Pl. 15" Conc. Pipe Inv. Out = 286.83'
- 194 In Pl. Metal Grate Rtm = 300.50' In Pl. 15" Conc. Pipe Bottom Of Structure = 295.22'
- 195 In Pl. Metal Grate Rtm = 292.98' (a) Inv. In = 288.76' (b) Inv. In = 281.10' In Pl. 18" Conc. Pipe Inv. Out = 281.11'
- 196 In Pl. Metal Grate Rtm = 292.50' In Pl. Conc. Pipe Bottom of Structure = 285.65
- 197 In Pl. Metal Grate Rtm = 292.70' In Pl. Conc. Pipe Bottom of Structure = 285.57
- 198 In Pl. 18" Conc. Pipe Inv. In = 280.22'
- 199 In Pl. Metal Grate Rtm = 292.68' Bottom Of Structure = Inaccessible
- 200 In Pl. Conc. Headwall In Pl. 54" Metal Pipe Inv. In = 270.60' In Pl. 54" Metal Pipe Inv. Out = 266.30'
- 201 In Pl. FES In Pl. 15" Conc. Pipe Inv. Out = 271.42'
- 202 In Pl. Metal Grate Rtm = 285.26' In Pl. 15" Conc. Pipe Inv. Out = 274.12'
- 203 In Pl. FES In Pl. 15" Conc. Pipe Inv. Out = 272.15'
- 204 In Pl. Metal Grate Rtm = 276.18' In Pl. 15" Conc. Pipe Inv. Out = 273.07'
- 205 In Pl. Metal Grate Rtm = 284.60' Bottom Of Structure = 279.84' In Pl. 15" Conc. Pipe
- 206 In Pl. Metal Grate Rtm = 277.21' Bottom Of Structure = 273.39' In Pl. 15" Conc. Pipe
- 207 In Pl. Metal Grate Rtm = 269.97' Bottom Of Structure = 263.90' In Pl. 15" Conc. Pipe
- 208 In Pl. Metal Grate Rtm = 262.98' (a) Inv. In = 257.26' (b) Inv. In = 257.21' In Pl. 24" Conc. Pipe Inv. Out = 257.79'
- 209 In Pl. Metal Grate Rtm = 277.08' Bottom Of Structure = 270.92 In Pl. 12" Metal Pipe
- 210 In Pl. Metal Grate Rtm = 274.92' Bottom Of Structure = 270.59' In Pl. 15" Conc. Pipe
- 211 In Pl. Metal Grate Rtm = 264.74' Bottom Of Structure = 258.94' In Pl. Conc. Pipe
- 212 In Pl. Metal Grate Rtm = 266.48' Bottom Of Structure = 257.91' In Pl. 18" Conc. Pipe
- 213 In Pl. 24" Conc. Pipe Inv. Out = 255.83'
- 214 In Pl. 15" Conc. Pipe Inv. Out = 256.49'
- 215 In Pl. Conc. DI Rtm = 245.54' In Pl. 15" Conc. Pipe Inv. Out = 242.59'
- 216 In Pl. 15" Conc. Pipe Inv. Out = 230.72'
- 217 In Pl. SSMH Rtm = 243.98' Inv. In = 234.58' In Pl. 15" Conc. Pipe Inv. Out = 233.08'
- 218 In Pl. Conc. DI Rtm = 252.43' Full of Debris
- 219 In Pl. Endwall In Pl. 60" Metal Pipe Inv. Out = 227.03'
- 220 In Pl. Metal Grate Rtm = 257.21' (Inaccessible)
- 221 In Pl. Headwall In Pl. 60" Metal Pipe Inv. In = 233.05'
- 222 In Pl. Metal Grate Rtm = 255.75' In Pl. 15" Conc. Pipe Bottom Of Structure = 243.98'
- 223 In Pl. FES In Pl. 15" Conc. Pipe Inv. Out = 243.20'
- 224 In Pl. Metal Grate Rtm = 248.68' Bottom Of Structure = 238.30' In Pl. 15" Conc. Pipe
- 225 In Pl. FES In Pl. 15" Conc. Pipe Inv. Out = 237.95'
- 226 In Pl. Metal Grate Rtm = 244.95' Bottom Of Structure = 237.80' In Pl. 15" Conc. Pipe
- 227 In Pl. FES In Pl. 15" Conc. Pipe Inv. Out = 237.13'
- 228 In Pl. Metal Grate Rtm = 247.93' In Pl. 15" Conc. Pipe Full of Debris
- 229 In Pl. FES In Pl. 15" Conc. Pipe Inv. = 232.22'
- 230 In Pl. Endwall In Pl. 24" Conc. Pipe Inv. = 230.51'
- 231 In Pl. Metal Grate Rtm = 237.92' In Pl. 24" Conc. Pipe Bottom of Structure = 232.29'
- 232 In Pl. Metal Grate Rtm = 241.21' In Pl. 18" Conc. Pipe Bottom of Structure = 233.71'
- 233 In Pl. Metal Grate Rtm = 241.08' In Pl. 18" Conc. Pipe Bottom of Structure = 237.2' -/-
- 234 In Pl. Metal Grate Rtm = 241.37' In Pl. Conc. Pipe Surcharged (per 2014 Plan) Bottom of Structure = 237.2' -/- In Pl. FES In Pl. 15" Conc. Pipe Inv. = 229.17'
- 236 In Pl. SSMH Rtm = 241.56' (a) Inv. In = 231.36' (b) Inv. In = 232.26' In Pl. 15" Conc. Pipe Inv. Out = 231.26'
- 237 In Pl. Metal Grate Rtm = 240.74' In Pl. 15" Conc. Pipe Inv. Out = 235.64'
- 238 In Pl. Metal Grate Rtm = 235.27' In Pl. 15" Conc. Pipe Inv. Out = 231.97'
- 239 In Pl. 12" Metal Pipe Inv. In = 284.60' In Pl. 12" Metal Pipe Inv. Out = 282.58'
- 240 In Pl. 21" Conc. Pipe Inv. In = 263.70' In Pl. 21" Conc. Pipe Inv. Out = 263.36'
- 241 In Pl. 18" Conc. Pipe Inv. In = 259.18' In Pl. 18" Conc. Pipe Inv. Out = 257.26'
- 242 In Pl. 24" Metal Pipe Rtm = 260.70' In Pl. 15" Conc. Pipe Inv. Out = 251.00'
- 243 In Pl. 24" Conc. Pipe Inv. In = 259.89' In Pl. 24" Conc. Pipe Inv. Out = 255.06'
- 244 In Pl. 15" Metal Pipe Inv. In = 254.35' In Pl. 15" Metal Pipe Inv. Out = 251.74'
- 245 In Pl. Conc. Headwall In Pl. 15" Conc. Pipe Inv. In = 259.32' In Pl. Conc. Endwall In Pl. 15" Metal Pipe Inv. Out = 257.27'
- 246 In Pl. Headwall In Pl. 7' x 6' Box Culvert Inv. = 228.04'
- 247 In Pl. Metal Grate Rtm = 242.16' Drops Into Box Culvert
- 248 In Pl. Metal Grate Rtm = 241.49' Drops Into Box Culvert
- 249 In Pl. Endwall In Pl. 7' x 6' Box Culvert Inv. = 227.28'
- 250 In Pl. Endwall In Pl. 18" Conc. Pipe Inv. = 232.85'
- 251 In Pl. Metal Grate Rtm = 242.86' In Pl. 18" Conc. Pipe Inv. Out = 233.66'
- 252 In Pl. Endwall In Pl. 18" Conc. Pipe Inv. = 233.28'
- 253 In Pl. Metal Grate Rtm = 244.74' In Pl. 18" Conc. Pipe Inv. Out = 234.84'
- 254 In Pl. Metal Grate Rtm = 245.59' Inv. In = 237.59' In Pl. 18" Conc. Pipe Inv. Out = 237.59'
- 255 In Pl. Metal Grate Rtm = 247.95' In Pl. 18" Conc. Pipe Bottom of Structure = 241.33'
- 256 In Pl. Endwall In Pl. 18" Conc. Pipe Inv. = 241.61'
- 257 In Pl. Metal Grate Rtm = 248.57' In Pl. 18" Conc. Pipe Inv. Out = 242.02'
- 258 In Pl. Endwall In Pl. 7' x 6' Box Culvert (a) Inv. = 237.73' In Pl. 7' x 6' Box Culvert (b) Inv. = 237.72'
- 259 In Pl. Headwall In Pl. 7' x 6' Box Culvert (a) Inv. = 239.35' In Pl. 7' x 6' Box Culvert (b) Inv. = 239.38'
- 260 In Pl. Metal Grate Rtm = 252.35' Drops Into Box Culvert
- 261 In Pl. Metal Grate Rtm = 255.65' In Pl. 15" Conc. Pipe Inv. Out = 246.85'
- 262 In Pl. Metal Grate Rtm = 250.88' (a) Inv. In = 245.68' (b) Inv. In = 245.68' In Pl. 15" Conc. Pipe Inv. Out = 241.18'
- 263 In Pl. Metal Grate Rtm = 250.29' In Pl. 15" Conc. Pipe Inv. Out = 250.24'
- 264 In Pl. Metal Grate Rtm = 274.03' In Pl. 15" Conc. Pipe Inv. Out = 251.00'
- 265 In Pl. Endwall In Pl. 18" Conc. Pipe Inv. = 246.96'
- 266 In Pl. Metal Grate Rtm = 253.57' In Pl. 18" Conc. Pipe Inv. Out = 247.27'
- 267 In Pl. Endwall In Pl. 18" Conc. Pipe Inv. = 243.18'
- 268 In Pl. Metal Grate Rtm = 256.88' Inv. In = 249.38' -/- In Pl. 18" Conc. Pipe Inv. Out = 242.18'
- 269 In Pl. Metal Grate Rtm = 264.55' In Pl. 18" Conc. Pipe Inv. Out = 253.20'
- 270 In Pl. Endwall In Pl. 18" Conc. Pipe Inv. = 247.11'
- 271 In Pl. Metal Grate Rtm = 257.98' In Pl. 18" Conc. Pipe Inv. Out = 249.18'
- 272 In Pl. Endwall In Pl. 18" Conc. Pipe Inv. = 242.69'
- 273 In Pl. Metal Grate Rtm = 259.39' Inv. In = 250.19' In Pl. 18" Conc. Pipe Inv. Out = 250.09'
- 274 In Pl. Metal Grate Rtm = 268.45' In Pl. 18" Conc. Pipe Inv. Out = 255.75'
- 275 In Pl. Metal Grate Rtm = 272.58' In Pl. 18" Conc. Pipe Inv. Out = 264.98'
- 276 In Pl. SSMH Rtm = 274.71' (a) Inv. In = 263.91' (b) Inv. In = 263.91' (c) Inv. In = 258.41' In Pl. 30" Plastic Pipe Inv. Out = 258.36'
- 277 In Pl. Metal Grate Rtm = 275.91' Inv. In = 265.36' In Pl. 18" Conc. Pipe Inv. Out = 265.31'
- 278 In Pl. Metal Grate Rtm = 274.57' In Pl. 18" Conc. Pipe Inv. Out = 265.77'
- 279 In Pl. Metal Grate Rtm = 274.82' In Pl. 18" Conc. Pipe Inv. Out = 259.37'
- 280 In Pl. Metal Grate Rtm = 263.14' Inv. In = 258.46' In Pl. 18" Conc. Pipe Inv. Out = 258.42'
- 281 In Pl. SSMH Rtm = 263.93' (a) Inv. In = 255.68' (b) Inv. In = 259.25' (c) Inv. In = 253.93' In Pl. 36" Plastic Pipe Inv. Out = 248.03'
- 282 In Pl. Metal Grate Rtm = 265.75' Inv. In = 258.95' In Pl. 18" Conc. Pipe Inv. Out = 258.85'
- 283 In Pl. Metal Grate Rtm = 265.43' Inv. In = 259.53' In Pl. 18" Conc. Pipe Inv. Out = 259.43'
- 284 In Pl. Metal Grate Rtm = 277.03' In Pl. 18" Conc. Pipe Inv. Out = 259.13'
- 285 In Pl. Metal Grate Rtm = 263.12' In Pl. 18" Conc. Pipe Inv. Out = 256.77'
- 286 In Pl. Endwall In Pl. 18" Conc. Pipe Inv. = 251.80'
- 287 In Pl. Endwall In Pl. 42" Conc. Pipe Inv. = 246.63'
- 288 In Pl. Headwall In Pl. 42" Conc. Pipe Inv. Out = 260.72'
- 289 In Pl. Headwall In Pl. 42" Conc. Pipe Inv. = 268.67'
- 290 In Pl. SSMH Rtm = 269.05' (a) Inv. In = 262.73' (b) Inv. In = 255.35' In Pl. 36" Plastic Pipe Inv. Out = 255.30'
- 291 In Pl. Metal Grate Rtm = 269.76' Inv. In = 264.78' In Pl. 18" Conc. Pipe Inv. Out = 264.73'
- 292 In Pl. Metal Grate Rtm = 269.49' Inv. In = 265.00' In Pl. 18" Conc. Pipe Inv. Out = 264.89'
- 293 In Pl. Metal Grate Rtm = 278.50' Inv. In = 271.00' In Pl. 18" Conc. Pipe Inv. Out = 267.25'
- 294 In Pl. Metal Grate Rtm = 278.24' Inv. In = 272.44' In Pl. 18" Conc. Pipe Inv. Out = 272.39'
- 295 In Pl. Metal Grate Rtm = 278.28' In Pl. 18" Conc. Pipe Inv. Out = 273.32'
- 296 In Pl. Metal Grate Rtm = 271.01' In Pl. 18" Conc. Pipe Inv. Out = 262.00'
- 297 In Pl. Endwall In Pl. 18" Conc. Pipe Inv. = 253.48'
- 298 In Pl. Endwall In Pl. 10' x 10' Box Culvert (a) Inv. = 249.90' In Pl. 10' x 10' Box Culvert (b) Inv. = 249.96' In Pl. 10' x 10' Box Culvert (c) Inv. = 249.87'
- 299 In Pl. Headwall In Pl. 10' x 10' Box Culvert (a) Inv. = 255.96' In Pl. 10' x 10' Box Culvert (b) Inv. = 255.73' In Pl. 10' x 10' Box Culvert (c) Inv. = 256.03'
- 300 In Pl. Metal Grate Rtm = 272.09' In Pl. 18" Conc. Pipe Inv. Out = 266.94'
- 301 In Pl. Metal Grate Rtm = 272.86' Inv. In = 266.46' In Pl. 18" Conc. Pipe Inv. Out = 266.41'
- 302 In Pl. Metal Grate Rtm = 273.69' Inv. In = 266.14' In Pl. 18" Conc. Pipe Inv. Out = 266.09'
- 303 In Pl. SSMH Rtm = 274.48' (a) Inv. In = 265.48' (b) Inv. In = 265.48' Connects to Box Culvert
- 304 In Pl. Metal Grate Rtm = 274.24' Inv. In = 266.10' In Pl. 18" Conc. Pipe Inv. Out = 266.04'
- 305 In Pl. 24" Conc. Pipe Inv. = 306.18'
- 306 In Pl. 24" Conc. Pipe Inv. = 313.92'
- 307 In Pl. 24" Conc. Pipe Inv. = 303.26'
- 308 In Pl. 24" Conc. Pipe Inv. = 289.26'
- 309 In Pl. Metal Grate Rtm = 289.26' In Pl. 42" Conc. Pipe Inv. Out = 272.96'
- 310 In Pl. Metal Grate Rtm = 265.38' Inv. In = 262.38' In Pl. 18" Conc. Pipe Inv. Out = 259.98'
- 311 In Pl. Endwall In Pl. 36" Plastic Pipe Inv. Out = 275.63'
- 312 In Pl. Endwall In Pl. 18" Conc. Pipe Inv. = 295.17'
- 313 In Pl. Metal Grate Rtm = 268.31' Inv. In = 259.51' In Pl. 36" Plastic Pipe Inv. Out = 259.41'
- 314 In Pl. Conc. DI Rtm = 280.69' Inv. In = 276.67' In Pl. 24" Conc. Pipe Inv. Out = 276.61'
- 315 In Pl. Metal Grate Rtm = 279.37' Inv. In = 276.77' In Pl. 18" Conc. Pipe Inv. Out = 276.75'
- 316 In Pl. Metal Grate Rtm = 280.81' In Pl. 18" Conc. Pipe Inv. Out = 277.21'
- 317 In Pl. Metal Grate Rtm = 288.46' In Pl. 18" Conc. Pipe Inv. Out = 283.34'
- 318 In Pl. Metal Grate Rtm = 293.54' Inv. In = 278.24' In Pl. 18" Conc. Pipe Inv. Out = 278.19'
- 319 In Pl. Metal Grate Rtm = 293.44' (a) Inv. In = 276.34' (b) Inv. In = 281.64' In Pl. 18" Conc. Pipe Inv. Out = 276.29'
- 320 In Pl. SSMH Rtm = 295.72' (a) Inv. In = 274.99' (b) Inv. In = 276.29' In Pl. 24" Conc. Pipe Inv. Out = 293.19'
- 321 In Pl. FES In Pl. 24" Conc. Pipe Inv. Out = 274.81'
- 322 In Pl. SSMH Rtm = 292.13' Inv. In = 286.18' In Pl. 18" Conc. Pipe Inv. Out = 279.93'
- 323 In Pl. Endwall In Pl. 36" Metal Pipe Inv. = 260.02'
- 324 In Pl. Headwall In Pl. 60" Metal Pipe Inv. = 261.62'
- 325 In Pl. FES In Pl. 18" Conc. Pipe Inv. = 296.55'
- 326 In Pl. Metal Grate Rtm = 301.26' (b) Inv. In = 296.56' In Pl. 18" Conc. Pipe Inv. Out = 296.52'
- 327 In Pl. Conc. DI Rtm = 301.80' Inv. In = 297.16' In Pl. 18" Conc. Pipe Inv. Out = 297.06'
- 328 In Pl. FES In Pl. 18" Conc. Pipe Inv. = 297.48'
- 329 In Pl. Conc. Endwall In Pl. 30" Conc. Pipe Inv. = 266.73'
- 330 In Pl. SSMH Rtm = 292.43' (a) Inv. In = 285.83' (b) Inv. In = 287.33' In Pl. 30" Conc. Pipe Inv. Out = 275.63'
- 331 In Pl. Metal Grate Rtm = 299.69' (a) Inv. In = 290.99' (b) Inv. In = 292.69' In Pl. 24" Conc. Pipe Inv. Out = 286.29'
- 332 In Pl. Metal Grate Rtm = 301.17' Inv. In = 294.47' In Pl. 18" Conc. Pipe Inv. Out = 294.22'
- 333 In Pl. Metal Grate Rtm = 301.03' In Pl. 18" Conc. Pipe Inv. Out = 295.41'
- 334 In Pl. Metal Grate Rtm = 299.56' Inv. In = 291.56' In Pl. 21" Conc. Pipe Inv. Out = 291.48'
- 335 In Pl. Metal Grate Rtm = 299.97' Inv. In = 292.05' In Pl. 18" Conc. Pipe Inv. Out = 292.00'
- 336 In Pl. Metal Grate Rtm = 300.31' (a) Inv. In = 293.36' (b) Inv. In = 294.81' In Pl. 18" Conc. Pipe Inv. Out = 293.31'
- 337 In Pl. Metal Grate Rtm = 300.10' In Pl. 18" Conc. Pipe Inv. Out = 295.94'
- 338 In Pl. Conc. DI w/Grate Top = 300.24' Inv. In = 295.37' Inv. Out = 293.19'
- 339 In Pl. Grate Top = 303.62' Inv. In = 298.91' Inv. Out = 298.87' Inv. Out = 289.99'
- 340 In Pl. SSMH Rtm = 302.29' Inv. In = 292.54' Inv. Out = 292.16' Inv. Out = 292.31'
- 341 In Pl. Grate Top = 303.95' Inv. Out = 300.45' (Inv. Out is Top of Silt)
- 342 In Pl. Metal Grate Top Grate = 291.28' Inv. In = 282.90' In Pl. 18" Conc. Pipe Inv. Out = 282.80'
- 343 In Pl. Metal Grate Rtm = 291.40' (a) Inv. In = 283.30' (b) Inv. In = 283.30' In Pl. 18" Conc. Pipe Inv. Out = 283.20'
- 344 In Pl. Metal Grate Rtm = 334.92' In Pl. 18" Plastic Pipe Inv. Out = 330.52'
- 345 In Pl. Metal Grate Rtm = 331.21' Inv. In = 325.91' In Pl. 18" Plastic Pipe Inv. Out = 325.71'
- 346 In Pl. SSMH Rtm = 325.70' (a) Inv. In = 319.55' (b) Inv. In = 319.55' In Pl. 18" Plastic Pipe Inv. Out = 319.50'
- 347 In Pl. Metal Grate Rtm = 324.65' Inv. In = 318.70' In Pl. 18" Conc. Pipe Inv. Out = 318.63'
- 348 In Pl. Metal Grate Rtm = 296.88' In Pl. 18" Conc. Pipe Inv. Out = 294.58'
- 349 In Pl. Metal Grate Rtm = 294.82' Inv. In = 292.72' In Pl. 18" Conc. Pipe Inv. Out = 292.62'
- 350 In Pl. Endwall In Pl. 18" Conc. Pipe Inv. Out = 282.32'
- 351 In Pl. Endwall In Pl. 8' x 8' Box Culvert (a) Inv. Out = 270.29' (b) Inv. Out = 270.30'
- 352 In Pl. Headwall (a) Inv. In = 272.22' (b) Inv. In = 272.24' In Pl. 8' x 8' Box Culvert
- 353 In Pl. End Section Rtm = 288.46' Inv. In = 284.91'
- 354 In Pl. Metal Grate Rtm = 302.98' (b) Inv. In = 294.81' In Pl. 18" Conc. Pipe Inv. Out = 298.33'
- 355 In Pl. Metal Grate Rtm = 302.90' In Pl. 24" Conc. Pipe Inv. Out = 299.50'
- 356 In Pl. Endwall In Pl. 5' x 6' Box Culvert Inv. Out = 280.86'
- 357 In Pl. Endwall In Pl. 15" Conc. Pipe Inv. = 288.89'
- 358 Buried Structure Not Found
- 359 In Pl. Headwall In Pl. 7' x 10' Box Culvert (a) Inv. Out = 265.21' (b) Inv. Out = 265.13'
- 360 In Pl. Headwall In Pl. 18" Metal Inv. Out = 274.52'
- 361 In Pl. Endwall In Pl. 36" Conc. Pipe Inv. = 282.34'
- 362 In Pl. Metal Grate Rtm = 287.24' Inv. In = 282.84' In Pl. 36" Conc. Pipe Inv. Out = 282.74'
- 363 In Pl. FES In Pl. 36" Conc. Pipe Inv. Out = 287.04'

NOVA DISTRICT

10/6/2022



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

VDOT PROJECT NO. 0495-029-419	SHEET NO. IF(6) AREA 3
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APPROVED FOR CONSTRUCTION



PROJECT MANAGER VDOT - RitaPal\_Shab, 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 Accurmark - Michael Taylor, LS, (703) 635-3060, 12/2021

# Survey Drainage Descriptions

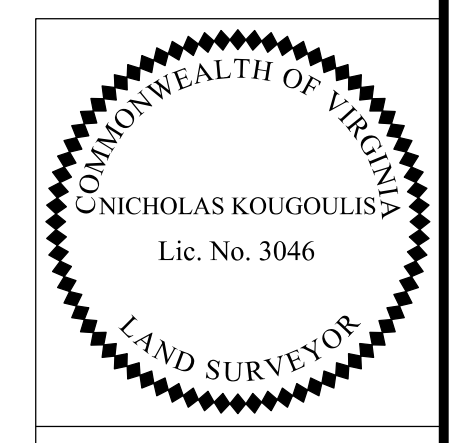
REVISED	STATE	ROUTE	VDOT PROJECT NO.	SHEET NO.
	VA	495	0495-029-419 C501 RW201	IF(7) AREA 3

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

- |   |   |   |  |   |  |   |  |  |  |  |   |  |   |   |  |  |  |   |   |   |  |  |   |   |   |  |   |  |   |   |  |   |  |  |  |  |   |   |  |  |  |  |  |  |  |   |   |  |   |  |   |  |  |  |  |   |  |   |   |  |   |  |  |   |   |   |   |  |  |  |  |  |   |  |   |   |   |   |   |  |   |   |   |   |  |   |   |  |  |   |  |  |  |  |   |   |  |  |  |   |   |  |  |  |  |  |  |   |  |  |  |   |  |   |   |  |   |   |   |   |  |   |   |  |   |  |  |  |   |  |  |   |   |  |  |   |  |   |   |  |  |   |   |  |   |
|---|---|---|--|---|--|---|--|--|--|--|---|--|---|---|--|--|--|---|---|---|--|--|---|---|---|--|---|--|---|---|--|---|--|--|--|--|---|---|--|--|--|--|--|--|--|---|---|--|---|--|---|--|--|--|--|---|--|---|---|--|---|--|--|---|---|---|---|--|--|--|--|--|---|--|---|---|---|---|---|--|---|---|---|---|--|---|---|--|--|---|--|--|--|--|---|---|--|--|--|---|---|--|--|--|--|--|--|---|--|--|--|---|--|---|---|--|---|---|---|---|--|---|---|--|---|--|--|--|---|--|--|---|---|--|--|---|--|---|---|--|--|---|---|--|---|
| 364 In Pl. Endwall<br>In Pl. 24" Conc. Pipe<br>Inv. = 304.71' | 365 In Pl. FES<br>In Pl. 24" Conc. Pipe<br>Inv. = 313.09' | 366 In Pl. Metal Grate<br>Rim = 320.06'<br>Inv. In = 314.31'<br>In Pl. 24" Conc. Pipe<br>Inv. Out = 314.26' | 367 In Pl. Metal Grate<br>Rim = 318.99'<br>In Pl. 24" Conc. Pipe<br>Inv. Out = 315.32' | 368 In Pl. Endwall<br>In Pl. 5' By 6' Box Culvert<br>Inv. = 284.89' | 369 In Pl. Metal Grate<br>Rim = 355.38'<br>In Pl. 24" Plastic Pipe<br>Inv. In = 350.16'<br>In Pl. 24" Plastic Pipe<br>Inv. Out = 349.74' | 370 In Pl. Metal Grate<br>Rim = 353.44'<br>Inv. In = 347.84'<br>In Pl. 24" Plastic Pipe<br>Inv. Out = 347.79' | 371 In Pl. SSMH<br>Rim = 353.35'<br>(a) Inv. In = 347.55'<br>(b) Inv. In = 329.80'<br>(c) Inv. In = 347.55'<br>In Pl. 39" Plastic Pipe<br>Inv. Out = 329.70' | 372 In Pl. Metal Grate<br>Rim = 352.17'<br>In Pl. 18" Plastic Pipe<br>Inv. Out = 348.37' | 373 In Pl. Headwall<br>In Pl. 39" Plastic Pipe<br>Inv. = 329.79' | 374 In Pl. Headwall<br>In Pl. 48" Conc. Pipe<br>Inv. = 329.74' | 375 In Pl. SSMH<br>Rim = 352.18'<br>(a) Inv. In = 343.13'<br>(b) Inv. In = 322.68'<br>(c) Inv. In = 342.23'<br>(d) Inv. In = 342.43'<br>In Pl. 42" Conc. Pipe<br>Inv. Out = 322.58' | 376 In Pl. Metal Grate<br>Rim = 349.60'<br>In Pl. 18" Conc. Pipe<br>Inv. Out = 343.10' | 377 In Pl. Metal Grate<br>Rim = 350.63'<br>Inv. In = 344.17'<br>In Pl. 18" Conc. Pipe<br>Inv. Out = 344.13' | 378 In Pl. Metal Grate<br>Rim = 350.47'<br>Inv. In = 344.74'<br>In Pl. 18" Conc. Pipe<br>Inv. Out = 344.70' | 379 In Pl. Metal Grate<br>Rim = 347.57'<br>In Pl. 18" Conc. Pipe<br>Inv. Out = 345.37' | 380 In Pl. SSMH<br>Rim = 354.15'<br>Inv. In = 346.80'<br>In Pl. 24" Conc. Pipe<br>Inv. Out = 344.70' | 381 In Pl. Metal Grate<br>Rim = 359.25'<br>In Pl. 24" Conc. Pipe<br>Inv. In = 354.59'<br>In Pl. 24" Conc. Pipe<br>Inv. Out = 352.84' | 382 In Pl. FES<br>In Pl. 18" Conc. Pipe<br>Inv. = 347.56' | 384 In Pl. Endwall<br>In Pl. 18" Conc. Pipe<br>Inv. = 343.12' | 385 In Pl. Metal Grate<br>Rim = 364.23'<br>Inv. In = 358.93'<br>In Pl. 18" Conc. Pipe<br>Inv. Out = 345.18' | 386 In Pl. Metal Grate<br>Rim = 364.89'<br>In Pl. 18" Conc. Pipe<br>Inv. Out = 359.64' | 387 In Pl. 12" Plastic Pipe<br>Inv. In = 343.58' | 388 In Pl. 12" Plastic Pipe<br>Inv. Out = 343.35' | 389 In Pl. Endwall<br>In Pl. 18" Conc. Pipe<br>Inv. = 349.59' | 390 In Pl. Metal Grate<br>Rim = 358.57'<br>Inv. In = 353.97'<br>In Pl. 18" Conc. Pipe<br>Inv. Out = 350.77' | 391 In Pl. Metal Grate<br>Rim = 359.48'<br>In Pl. 18" Conc. Pipe<br>Inv. Out = 354.53' | 392 In Pl. SSMH<br>Rim = 340.86'<br>In Pl. 24" Plastic Pipe<br>Inv. In = 333.66'<br>In Pl. 24" Plastic Pipe<br>Inv. Out = 333.62' | 393 In Pl. SSMH<br>Rim = 339.95'<br>Inv. In = 332.90'<br>In Pl. 24" Conc. Pipe<br>Inv. Out = 332.85' | 394 In Pl. Metal Grate<br>Rim = 338.52'<br>(a) Inv. In = Inaccessible<br>(b) Inv. In = Inaccessible<br>In Pl. 24" Conc. Pipe<br>Inv. Out = Inaccessible | 395 In Pl. Metal Grate<br>Rim = 338.15'<br>Inv. In = 335.01'<br>In Pl. 18" Conc. Pipe<br>Inv. Out = 333.05' | 396 In Pl. Metal Grate<br>Rim = 339.65'<br>Inv. In = 339.65' | 397 In Pl. SSMH<br>Rim = 334.30'<br>(a) Inv. In = 324.80'<br>(b) Inv. In = 324.50'<br>In Pl. 24" Conc. Pipe<br>Inv. Out = 320.00' | 398 In Pl. Metal Grate<br>Rim = 341.17'<br>In Pl. 18" Conc. Pipe<br>Inv. Out = 335.87' | 399 In Pl. Endwall<br>Inv. Out = 307.24' | 400 In Pl. SSMH<br>Rim = 314.50'<br>Inv. In = 307.52'<br>In Pl. 24" Conc. Pipe<br>Inv. Out = 307.47' | 401 In Pl. Metal Grate<br>Rim = 320.03'<br>(a) Inv. In = 314.91'<br>(b) Inv. In = 312.53'<br>In Pl. 24" Conc. Pipe<br>Inv. Out = 309.03' | 402 In Pl. Metal Grate<br>Rim = 318.63'<br>Inv. In = 313.63'<br>In Pl. 18" Conc. Pipe<br>Inv. Out = 312.88' | 403 In Pl. Metal Grate<br>Rim = 340.45'<br>Inv. In = 335.45'<br>In Pl. 18" Conc. Pipe<br>Inv. Out = 313.45' | 404 In Pl. Metal Grate<br>Rim = 341.98'<br>In Pl. 18" Conc. Pipe<br>Inv. Out = 336.98' | 405 In Pl. Metal Grate<br>Rim = 326.39'<br>(a) Inv. In = 321.49'<br>(b) Inv. In = 321.39'<br>In Pl. 18" Conc. Pipe<br>Inv. Out = 317.09' | 406 In Pl. Metal Grate<br>Rim = 326.19'<br>In Pl. 18" Conc. Pipe<br>Inv. Out = 321.99' | 407 In Pl. SSMH<br>Rim = 339.62'<br>Inv. In = 332.85'<br>In Pl. 18" Conc. Pipe<br>Inv. Out = 325.17' | 408 In Pl. Metal Grate<br>Rim = 349.95'<br>In Pl. 18" Conc. Pipe<br>Inv. Out = 341.20' | 409 In Pl. SSMH<br>Rim = 328.45'<br>Inv. In = 319.95'<br>In Pl. 30" Conc. Pipe<br>Inv. Out = 305.95' | 410 In Pl. Metal Grate<br>Rim = 332.99'<br>(a) Inv. In = 328.59'<br>(b) Inv. In = 328.09'<br>In Pl. 30" Conc. Pipe<br>Inv. Out = 321.99' | 411 In Pl. SSMH<br>Rim = 336.99'<br>(a) Inv. In = 329.49'<br>(b) Inv. In = 329.99'<br>In Pl. 24" Plastic Pipe<br>Inv. Out = 328.39' | 412 In Pl. SSMH<br>Rim = 336.99'<br>(a) Inv. In = 329.49'<br>(b) Inv. In = 329.99'<br>In Pl. 24" Plastic Pipe<br>Inv. Out = 328.39' | 413 In Pl. Metal Grate<br>Rim = 351.34'<br>Inverts Inaccessible<br>Bottom of Structure = 331.30' +/- | 414 In Pl. Metal Grate<br>Rim = 350.69'<br>Inv. In = 341.49'<br>In Pl. 18" Conc. Pipe<br>Inv. Out = 341.34' | 415 In Pl. Metal Grate<br>Rim = 350.54'<br>Inv. In = 341.24' | 416 In Pl. Metal Grate<br>(a) Inv. In = 344.81'<br>(b) Inv. In = 341.85'<br>In Pl. 18" Conc. Pipe<br>Inv. Out = 341.71' | 417 In Pl. Metal Grate<br>Rim = 357.54'<br>In Pl. 18" Conc. Pipe<br>Inv. Out = 352.54' | 418 In Pl. Metal Grate<br>Rim = 347.09'<br>In Pl. 18" Conc. Pipe<br>Inv. Out = 342.37' | 419 In Pl. Metal Grate<br>Rim = 348.04'<br>In Pl. 18" Conc. Pipe<br>Inv. Out = 343.29' | 420 In Pl. Metal Grate<br>Rim = 335.77'<br>In Pl. 18" Conc. Pipe<br>Inv. Out = 331.50' | 421 In Pl. SSMH<br>Rim = 336.43'<br>(a) Inv. In = 329.28'<br>(b) Inv. In = 330.18'<br>In Pl. 24" Plastic Pipe<br>Inv. Out = 329.23' | 422 In Pl. Metal Grate<br>Rim = 336.33'<br>In Pl. 18" Conc. Pipe<br>Inv. Out = 330.18' | 423 In Pl. Metal Grate<br>Rim = 335.61'<br>Inv. In = 329.87'<br>In Pl. 18" Plastic Pipe<br>Inv. Out = 329.83' | 424 In Pl. Metal Grate<br>Rim = 340.64' +/-<br>Under Const.<br>Inverts Inaccessible | 425 In Pl. Metal Grate<br>Rim = 368.30'<br>In Pl. 18" Conc. Pipe<br>Invert Inaccessible<br>Bottom of Structure = 343.60' +/- | 426 Rim = 341.70' +/-<br>Under Const.<br>Inverts Inaccessible | 427 In Pl. SSMH<br>Rim = 342.72'<br>Inv. In = 336.72'<br>In Pl. 18" Plastic Pipe<br>Inv. Out = 336.65' | 428 In Pl. SSMH<br>Rim = 345.94'<br>Inv. In = 338.52'<br>In Pl. 18" Plastic Pipe<br>Inv. Out = 338.47' | 429 In Pl. Metal Grate<br>Rim = 342.27' +/-<br>In Pl. 18" Plastic Pipe<br>Invert Inaccessible | 430 In Pl. SSMH<br>Rim = 337.04'<br>(a) Inv. In = 330.64'<br>(b) Inv. In = 330.64'<br>In Pl. 18" Plastic Pipe<br>Inv. Out = 330.59' | 431 In Pl. Metal Grate<br>Rim = 340.65'<br>Inv. In = 336.26'<br>In Pl. 18" Plastic Pipe<br>Inv. Out = 336.16' | 432 In Pl. Metal Grate<br>Rim = 344.70'<br>Inv. In = 339.10'<br>In Pl. 18" Plastic Pipe<br>Inv. Out = 339.04' | 433 In Pl. Metal Grate<br>Rim = 347.48'<br>In Pl. 18" Plastic Pipe<br>Inv. Out = 343.08' | 434 In Pl. Metal Grate<br>Rim = 349.17'<br>In Pl. 18" Plastic Pipe Stubbed<br>Inv. Out = 346.59' | 435 In Pl. Metal Grate<br>Rim = 346.35'<br>Inv. Inaccessible<br>Under Const. | 436 In Pl. Metal Grate<br>Rim = 325.95'<br>(a) Inv. In = 316.55'<br>(b) Inv. In = 316.35'<br>In Pl. 60" Conc. Pipe<br>Inv. Out = 316.30' | 437 In Pl. SSMH<br>Rim = 327.35'<br>Inv. In = 316.60'<br>In Pl. 48" Conc. Pipe<br>Inv. Out = 316.56' | 438 In Pl. Endwall<br>In Pl. 36" Conc. Pipe<br>Inv. = 294.48' | 439 In Pl. Headwall<br>In Pl. 36" Conc. Pipe<br>Inv. Out = 295.47' | 440 In Pl. Endwall<br>In Pl. 36" Conc. Pipe<br>Inv. = 395.30' | 441 In Pl. SSMH<br>Inv. In = 298.38'<br>In Pl. 36" Conc. Pipe<br>Inv. Out = 298.18' | 442 In Pl. Metal Grate<br>In Pl. 60" Conc. Pipe<br>(a) Inv. = 292.44'<br>In Pl. 4"(h) x 7"(w) Box Culvert<br>(b) Inv. = 292.56'<br>In Pl. 4"(h) x 7"(w) Box Culvert<br>(c) Inv. = 292.73' | 443 In Pl. Metal Grate<br>Rim = 291.53'<br>Inv. In = 287.91'<br>In Pl. 18" Conc. Pipe<br>Inv. Out = 287.88' | 444 In Pl. Metal Grate<br>Rim = 297.33'<br>Inv. In = 290.71'<br>In Pl. 18" Conc. Pipe<br>Inv. Out = 290.68' | 445 In Pl. Metal Grate<br>Rim = 303.19'<br>In Pl. 18" Conc. Pipe<br>Inv. Out = 294.79' | 446 In Pl. Endwall<br>In Pl. 30" Conc. Pipe<br>Inv. = 278.59' | 447 In Pl. SSMH<br>Rim = 290.25'<br>(a) Inv. In = 279.35'<br>(b) Inv. In = 279.35'<br>In Pl. 30" Conc. Pipe<br>Inv. Out = 279.30' | 448 In Pl. SSMH<br>Rim = 288.56'<br>(a) Inv. In = 281.56'<br>(b) Inv. In = 281.56'<br>In Pl. 30" Conc. Pipe<br>Inv. Out = 281.51' | 449 In Pl. SSMH<br>Rim = 292.39'<br>(a) Inv. In = 285.89'<br>(b) Inv. In = 285.89'<br>In Pl. 30" Conc. Pipe<br>Inv. Out = 285.82' | 450 In Pl. Metal Grate<br>Rim = 294.17'<br>(a) Inv. In = 287.22'<br>(b) Inv. In = 287.22'<br>In Pl. 30" Conc. Pipe<br>Inv. Out = 287.17' | 451 In Pl. SSMH<br>Rim = 298.44'<br>In Pl. 24" Conc. Pipe<br>Inv. In = 290.49'<br>In Pl. 30" Conc. Pipe<br>Inv. Out = 290.44' | 452 In Pl. Metal Grate<br>Rim = 295.33'<br>Inv. In = 288.63'<br>In Pl. 18" Conc. Pipe<br>Inv. Out = 288.53' | 453 In Pl. Metal Grate<br>Rim = 297.60'<br>In Pl. 18" Conc. Pipe<br>Inv. Out = 289.00' | 454 In Pl. Metal Grate<br>Rim = 294.53'<br>In Pl. 18" Conc. Pipe<br>Inv. Out = 288.03' | 455 In Pl. Metal Grate<br>Rim = 291.95'<br>Same Str. As C113<br>Bottom of Structure = 286.05' | 456 In Pl. Metal Grate<br>Rim = 292.95'<br>Same Str. As C112<br>Bottom of Structure = 286.05'<br>In Pl. 18" Conc. Pipe<br>Inv. Out = 285.95' | 457 In Pl. Metal Grate<br>Rim = 292.29'<br>(a) Inv. In = 283.35'<br>(b) Inv. In = 283.35'<br>In Pl. 18" Conc. Pipe<br>Inv. Out = 283.29' | 458 In Pl. Metal Grate<br>Rim = 292.20'<br>In Pl. 18" Conc. Pipe<br>Inv. Out = 285.20' | 459 In Pl. Metal Grate<br>Rim = 289.12'<br>In Pl. 18" Conc. Pipe<br>Inv. Out = 283.52' | 460 In Pl. Metal Grate<br>Rim = 289.13'<br>Inv. In = 282.98'<br>In Pl. 18" Conc. Pipe<br>Inv. Out = 282.96' | 461 In Pl. Metal Grate<br>Rim = 293.08'<br>Same Str. As C119<br>Bottom of Structure = 284.38' | 462 In Pl. Metal Grate<br>Rim = 289.44'<br>Same Str. As C118<br>Inv. In = 283.04'<br>In Pl. 18" Conc. Pipe<br>Inv. Out = 282.98' | 463 In Pl. Metal Grate<br>Rim = 289.44'<br>(a) Inv. In = 281.77'<br>(b) Inv. In = 281.77'<br>In Pl. 18" Conc. Pipe<br>Inv. Out = 281.70' | 464 In Pl. Metal Grate<br>Rim = 291.54'<br>Same Str. As C122<br>Inv. Out = 283.98' | 465 In Pl. Metal Grate<br>Rim = 293.43'<br>Same Str. As C121<br>Bottom of Structure = 284.73' | 466 In Pl. Endwall<br>In Pl. 72" Conc. Pipe<br>Inv. = 283.55' | 467 In Pl. SSMH<br>Rim = 300.12'<br>(a) Inv. In = 282.77'<br>(b) Inv. In = 282.77'<br>Drops Into Box Culvert | 468 In Pl. Metal Grate<br>Rim = 293.48'<br>In Pl. 18" Conc. Pipe<br>Inv. Out = 288.98' | 469 In Pl. SSMH<br>Rim = 290.91'<br>Inv. In = 285.35'<br>In Pl. 18" Conc. Pipe<br>Inv. Out = 285.31' | 470 In Pl. SSMH<br>Rim = 292.29'<br>Inv. In = 285.22'<br>In Pl. 18" Conc. Pipe<br>Inv. Out = 285.18' | 471 In Pl. Metal Grate<br>Rim = 291.32'<br>(a) Inv. In = 285.44'<br>(b) Inv. In = 285.44'<br>In Pl. 18" Conc. Pipe<br>Inv. Out = 285.40' | 472 In Pl. Metal Grate<br>Rim = 290.24'<br>In Pl. 18" Conc. Pipe<br>Inv. Out = 285.99' | 473 In Pl. Metal Grate<br>Rim = 290.99'<br>Inv. In = 287.42'<br>In Pl. 18" Conc. Pipe<br>Inv. Out = 287.37' | 474 In Pl. Metal Grate<br>Rim = 290.97'<br>In Pl. 18" Conc. Pipe<br>Inv. Out = 287.97' | 475 In Pl. Headwall<br>In Pl. 72" Conc. Pipe<br>(a) Inv. = 274.79'<br>In Pl. 6"(h) x 8"(w) Box Culvert<br>(b) Inv. = 274.66'<br>In Pl. 6"(h) x 8"(w) Box Culvert<br>(c) Inv. = 274.70' | 476 In Pl. Metal Grate<br>Rim = 292.20'<br>In Pl. 18" Conc. Pipe<br>Inv. = 283.64' | 477 In Pl. Metal Grate<br>Rim = 291.93'<br>Inv. In = 286.93'<br>In Pl. 18" Conc. Pipe<br>Inv. Out = 285.43' | 478 In Pl. Metal Grate<br>Rim = 296.70'<br>In Pl. 18" Conc. Pipe<br>Inv. Out = 285.43' | 479 In Pl. Endwall<br>In Pl. 60" Conc. Pipe<br>Inv. = 287.48' | 480 In Pl. SSMH<br>Rim = 307.51'<br>Inv. Inaccessible<br>In Pl. 60" Conc. Pipe<br>Bottom of Structure = 289.40' +/- | 481 In Pl. Metal Grate<br>Rim = 298.54'<br>In Pl. 18" Conc. Pipe<br>Inv. Out = 289.29' | 482 In Pl. Endwall<br>In Pl. 18" Conc. Pipe<br>Inv. = 291.78' | 483 In Pl. Metal Grate<br>In Pl. 18" Conc. Pipe<br>Inv. Out = 298.71' | 484 In Pl. Endwall<br>In Pl. 24" Conc. Pipe<br>Inv. = 312.18' | 485 In Pl. SSMH<br>Rim = 321.51'<br>(a) Inv. In = 313.84'<br>(b) Inv. In = 313.84'<br>In Pl. 24" Conc. Pipe | 486 In Pl. Metal Grate<br>Rim = 322.50'<br>In Pl. 18" Conc. Pipe<br>Inv. Out = 316.40' | 487 In Pl. Endwall<br>In Pl. 18" Conc. Pipe<br>Inv. = 323.90' | 488 In Pl. Metal Grate<br>Rim = 330.56'<br>Inv. In = 323.84'<br>In Pl. 18" Conc. Pipe<br>Inv. Out = 323.81' | 489 In Pl. Metal Grate<br>Rim = 330.80'<br>In Pl. 18" Conc. Pipe<br>Inv. Out = 327.10' | 490 In Pl. SSMH<br>Rim = 330.98'<br>(a) Inv. In = 324.25'<br>(b) Inv. In = 324.26'<br>In Pl. 18" Conc. Pipe<br>Inv. Out = 324.25' | 491 In Pl. Metal Grate<br>Rim = 330.68'<br>In Pl. 18" Conc. Pipe<br>Inv. Out = 325.96' | 492 In Pl. SSMH<br>Rim = 329.58'<br>Inv. In = 325.28'<br>In Pl. 18" Conc. Pipe<br>Inv. Out = 325.52' | 493 In Pl. Metal Grate<br>Rim = 329.12'<br>In Pl. 18" Conc. Pipe<br>Inv. Out = 325.52' | 494 In Pl. Endwall<br>In Pl. 18" Conc. Pipe<br>Inv. = 268.94' | 495 In Pl. Metal Grate<br>Rim = 288.76'<br>In Pl. 18" Conc. Pipe<br>Inv. Out = 273.86' | 496 In Pl. Metal Grate<br>Rim = 270.40'<br>Bottom of Structure = 268.55' | 497 In Pl. Endwall<br>In Pl. 18" Conc. Pipe<br>Inv. = 273.81' | 498 In Pl. Metal Grate<br>Rim = 284.92'<br>Inv. In = 279.62'<br>In Pl. 18" Conc. Pipe<br>Inv. Out = 274.42' | 499 In Pl. Metal Grate<br>Rim = 290.34'<br>In Pl. 18" Conc. Pipe<br>Inv. Out = 285.44' | 500 In Pl. Metal Grate<br>Rim = 286.43'<br>In Pl. 18" Conc. Pipe<br>Inv. Out = 273.03' | 501 In Pl. Endwall<br>In Pl. 18" Conc. Pipe<br>Inv. = 272.68' | 502 In Pl. Metal Grate<br>Rim = 281.40'<br>In Pl. 18" Conc. Pipe<br>Inv. Out = 275.57' | 503 In Pl. Metal Grate<br>Rim = 279.96'<br>Inv. In = 275.21'<br>In Pl. 18" Conc. Pipe<br>Inv. Out = 275.16' | 504 In Pl. Metal Grate<br>Rim = 276.51'<br>Inv. In = 271.76'<br>In Pl. 18" Conc. Pipe<br>Inv. Out = 271.66' | 505 In Pl. Metal Grate<br>Rim = 277.68'<br>(a) Inv. In = 269.68'<br>(b) Inv. In = 269.68'<br>Bottom of Structure = 253.98' | 506 In Pl. Metal Grate<br>Rim = 278.51'<br>Same Str. As C164 | 507 In Pl. Metal Grate<br>Rim = 277.62'<br>Inv. In = 270.72'<br>In Pl. 18" Conc. Pipe<br>Inv. Out = 270.42' | 508 In Pl. Metal Grate<br>Rim = 279.05'<br>Inv. In = 272.65'<br>In Pl. 18" Conc. Pipe<br>Inv. Out = 272.55' | 509 In Pl. Metal Grate<br>Rim = 284.54'<br>In Pl. 18" Conc. Pipe<br>Inv. Out = 279.34' | 510 In Pl. Metal Grate<br>Rim = 277.98'<br>Inv. In = 272.34'<br>In Pl. 18" Conc. Pipe<br>Inv. Out = 270.68' |
|---|---|---|--|---|--|---|--|--|--|--|---|--|---|---|--|--|--|---|---|---|--|--|---|---|---|--|---|--|---|---|--|---|--|--|--|--|---|---|--|--|--|--|--|--|--|---|---|--|---|--|---|--|--|--|--|---|--|---|---|--|---|--|--|---|---|---|---|--|--|--|--|--|---|--|---|---|---|---|---|--|---|---|---|---|--|---|---|--|--|---|--|--|--|--|---|---|--|--|--|---|---|--|--|--|--|--|--|---|--|--|--|---|--|---|---|--|---|---|---|---|--|---|---|--|---|--|--|--|---|--|--|---|---|--|--|---|--|---|---|--|--|---|---|--|---|

NOVA DISTRICT

10/6/2022



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

VDOT PROJECT NO. 0495-029-419	SHEET NO. IF(7) AREA 3
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APPROVED FOR CONSTRUCTION



PROJECT MANAGER VDOT - Rupal 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
SUBSURFACE UTILITY BY, DATE Accurmark - Michael Taylor, LS, (703) 635-3060, 12/2021

Survey Drainage Descriptions

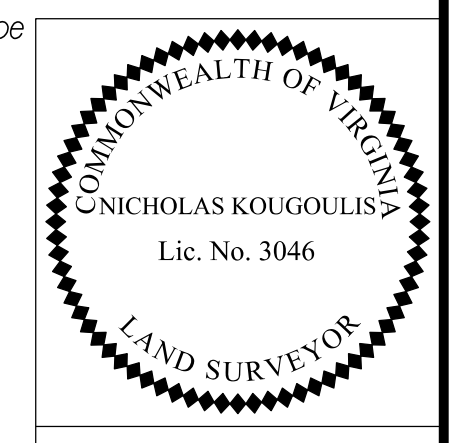
Table with columns: REVISED, STATE, ROUTE, VDOT PROJECT NO., SHEET NO. Values: VA, 495, 0495-029-419 C501 RW201, IF(8) AREA 3

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' Inv. In = 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 = 327.88' 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

10/6/2022



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

APPROVED FOR CONSTRUCTION

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

Survey Drainage Descriptions

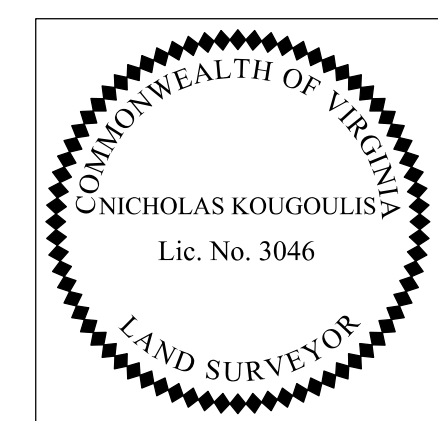
Table with columns: REVISED, STATE, ROUTE, STATE, VDOT PROJECT NO., SHEET NO. Values: VA, 495, 0495-029-419 C501 RW201, IF(9) AREA 3

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'
36212 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 = 253.14' 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)

Table with columns: VDOT PROJECT NO., SHEET NO. Values: 0495-029-419, IF(9) AREA 3

APPROVED FOR CONSTRUCTION



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

Construction Alignment Data

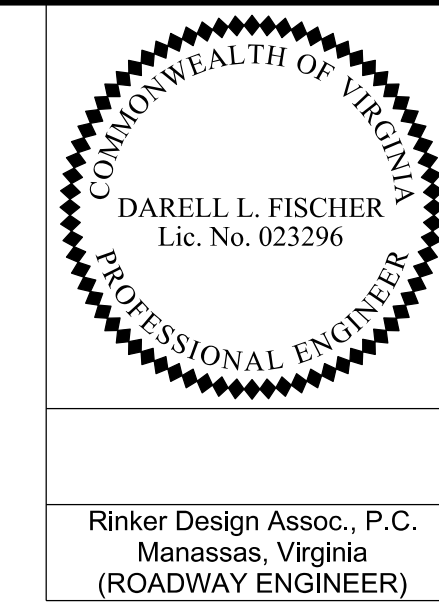


Table with columns: REVISED, STATE, ROUTE, STATE, VDOT PROJECT NO., SHEET NO. Values: VA, 495, 0495-029-419 C501 RW201, 16, AREA 3

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 2)
Feature: - 50 Scale Baselines
Description: Proposed 495 Express Lanes Northbound

Course from PT 495XL\_NB6 to PC 495XL\_NB7 N 24° 18' 11.48" E Dist 471.51

Curve Data
Curve 495XL\_NB7
P.I. Station 621+95.39 N 469,133.98 E 3,650,404.48
Delta = 19° 49' 26.95" (RT)
Degree = 1° 13' 47.80"

Course from PT 495XL\_NB7 to PC 495XL\_NB8 N 44° 07' 38.43" E Dist 654.15

Curve Data
Curve 495XL\_NB8
P.I. Station 639+52.66 N 470,407.02 E 3,651,639.32
Delta = 4° 30' 21.00" (LT)
Degree = 0° 44' 17.37"

Curve Data
Curve 495XL\_NB9
P.I. Station 652+25.82 N 471,387.94 E 3,652,451.43
Delta = 22° 34' 36.77" (LT)
Degree = 1° 10' 52.88"

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"

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

Chain 495XL\_SB description (Continued from Area 2)
Feature: - 50 Scale Baselines
Description: Proposed 495 Express Lanes Southbound

Curve Data
Curve 495XL\_SB8
P.I. Station 223+23.06 N 469,226.71 E 3,650,403.50
Delta = 18° 28' 18.58" (RT)
Degree = 1° 11' 37.18"

Curve Data
Curve 495XL\_SB8
P.I. Station 215+42.54 N 468,523.04 E 3,650,065.79
Delta = 23° 05' 35.74" (RT)
Degree = 1° 23' 05.74"

Course from PT 495XL\_SB8 to PC 495XL\_SB9 N 44° 06' 33.87" E Dist 780.99

Curve Data
Curve 495XL\_SB9
P.I. Station 250+90.06 N 471,223.18 E 3,652,338.85
Delta = 27° 06' 59.87" (LT)
Degree = 1° 08' 00.41"

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"

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"

Beginning chain GWMP\_RMP\_G21 description
Feature: - 50 Scale Baselines
Description: Proposed Ramp G21

Curve Data
Curve GWMP\_G21\_001
P.I. Station 4+78.04 N 471,861.85 E 3,652,437.72
Delta = 23° 49' 05.79" (LT)
Degree = 5° 06' 23.67"

Curve Data
Curve GWMP\_G21\_002
P.I. Station 8+54.42 N 472,244.69 E 3,652,454.75
Delta = 22° 21' 01.91" (RT)
Degree = 7° 43' 18.49"

Curve Data
Curve GWMP\_G21\_002
P.I. Station 8+54.42 N 472,244.69 E 3,652,454.75
Delta = 22° 21' 01.91" (RT)
Degree = 7° 43' 18.49"

Curve Data
Curve GWMP\_G21\_002
P.I. Station 8+54.42 N 472,244.69 E 3,652,454.75
Delta = 22° 21' 01.91" (RT)
Degree = 7° 43' 18.49"

Curve Data
Curve GWMP\_G21\_003
P.I. Station 10+92.12 N 472,463.68 E 3,652,556.39
Delta = 1° 48' 16.68" (LT)
Degree = 0° 57' 05.19"

Curve Data
Curve GWMP\_G21\_004
P.I. Station 13+47.32 N 472,698.44 E 3,652,656.50
Delta = 4° 18' 42.59" (LT)
Degree = 1° 20' 41.90"

Curve Data
Curve GWMP\_G21\_005
P.I. Station 21+39.65 N 473,448.73 E 3,652,911.64
Delta = 19° 57' 27.66" (RT)
Degree = 3° 20' 48.18"

Course from PT GWMP\_G21\_004 to PC GWMP\_G21\_005 N 18° 46' 53.15" E Dist 330.89

Curve Data
Curve GWMP\_G21\_005
P.I. Station 21+39.65 N 473,448.73 E 3,652,911.64
Delta = 19° 57' 27.66" (RT)
Degree = 3° 20' 48.18"

Curve Data
Curve GWMP\_G21\_006
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\_G21\_006
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"

Beginning chain BH\_RD description
Feature: - 50 Scale Baselines
Description: Proposed Balls Hill Road

Point BH100 N 470,980.10 E 3,652,458.79 Sta 10+00.00

Course from BH100 to PC BH\_RD\_01 N 58° 34' 26.06" E Dist 421.69

Curve Data
Curve BH\_RD\_01
P.I. Station 15+52.14 N 471,267.99 E 3,652,929.94
Delta = 40° 01' 54.87" (LT)
Degree = 15° 59' 59.78"

Course from PT BH\_RD\_01 to PC BH\_RD\_02 N 18° 38' 48.36" E Dist 283.15

Curve Data
Curve BH\_RD\_02
P.I. Station 20+72.30 N 471,771.06 E 3,653,099.45
Delta = 16° 40' 38.88" (LT)
Degree = 7° 09' 43.10"

Course from PT BH\_RD\_02 to PC BH\_RD\_03 N 1° 58' 09.48" E Dist 633.86

Curve Data
Curve BH\_RD\_03
P.I. Station 28+58.66 N 472,558.61 E 3,653,126.53
Delta = 2° 06' 49.77" (LT)
Degree = 2° 51' 53.24"

Course from PT BH\_RD\_03 to PC BH\_RD\_04 N 0° 08' 40.29" W Dist 403.76

Curve Data
Curve BH\_RD\_04
P.I. Station 34+14.62 N 473,114.58 E 3,653,125.13
Delta = 38° 31' 30.20" (RT)
Degree = 17° 21' 44.49"

Course from PT BH\_RD\_04 to PC BH\_RD\_05 N 38° 22' 49.91" E Dist 381.01

Table with columns: VDOT PROJECT NO., SHEET NO. Values: 0495-029-419, 16, AREA 3

APPROVED FOR CONSTRUCTION

NOVA DISTRICT

PROJECT MANAGER\_VDOT - Rirapal 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

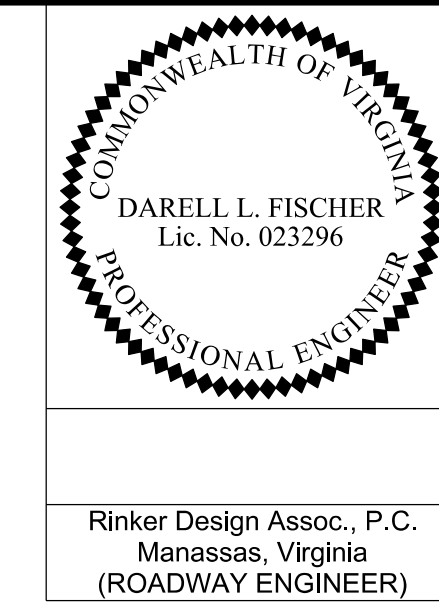


Table with columns: REVISED, STATE, ROUTE, STATE, VDOT PROJECT NO., SHEET NO. Values include VA, 495, 0495-029-419 C501 RW201, IG(1) AREA 3

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

Beginning chain GTP\_RMP\_SW description
Feature: - 50 Scale Baselines
Description: Proposed Ramp SW

Curve Data
Curve GTP\_SW\_01
P.I. Station 13+55.14 N 471,046.33 E 3,651,976.63
Delta = 19° 08' 45.31" (LT)
Degree = 3° 01' 36.19"
Tangent = 319.26
Length = 632.56
Radius = 1,893.00
External = 26.73
Long Chord = 629.62
Mid. Ord. = 26.36
P.C. Station 10+35.88 N 470,795.05 E 3,651,779.70
P.T. Station 16+68.45 N 471,348.31 E 3,652,080.25
C.C. N 471,962.74 E 3,650,289.75
Back = N 38° 05' 10.29" E
Ahead = N 18° 56' 24.98" E
Chord Bear = N 28° 30' 47.63" E

Course from PT GTP\_SW\_01 to GTPSW003 N 18° 56' 24.98" E Dist 524.27

Point GTPSW003 N 471,844.19 E 3,652,250.42 Sta 21+92.72

Ending chain GTP\_RMP\_SW description

Beginning chain GTP description
Feature: - 50 Scale Baselines
Description: Georgetown Pike

Point GTP001 N 472,299.11 E 3,651,118.95 Sta 10+00.00

Course from GTP001 to PC GTP\_01 S 64° 19' 59.34" E Dist 82.52

Curve Data
Curve GTP\_01
P.I. Station 11+72.13 N 472,224.55 E 3,651,274.09
Delta = 4° 25' 25.52" (LT)
Degree = 2° 28' 10.72"
Tangent = 89.61
Length = 179.13
Radius = 2,320.00
External = 1.73
Long Chord = 179.08
Mid. Ord. = 1.73
P.C. Station 10+82.52 N 472,263.36 E 3,651,193.32
P.T. Station 12+61.65 N 472,192.09 E 3,651,357.61
C.C. N 474,354.45 E 3,652,198.20
Back = S 64° 19' 59.34" E
Ahead = S 68° 45' 24.86" E
Chord Bear = S 66° 32' 42.10" E

Course from PT GTP\_01 to PC GTP\_02 S 68° 45' 24.86" E Dist 898.63

Curve Data
Curve GTP\_02
P.I. Station 22+21.24 N 471,844.40 E 3,652,252.00
Delta = 3° 00' 36.77" (RT)
Degree = 2° 28' 10.72"
Tangent = 60.96
Length = 121.89
Radius = 2,320.00
External = 0.80
Long Chord = 121.87
Mid. Ord. = 0.80
P.C. Station 21+60.28 N 471,866.49 E 3,652,195.18
P.T. Station 22+82.17 N 471,819.36 E 3,652,307.57
C.C. N 469,704.13 E 3,651,354.59
Back = S 68° 45' 24.86" E
Ahead = S 65° 44' 48.09" E
Chord Bear = S 67° 15' 06.47" E

Course from PT GTP\_02 to PC GTP\_03 S 65° 44' 48.09" E Dist 783.96

Curve Data
Curve GTP\_03
P.I. Station 32+24.01 N 471,432.48 E 3,653,166.29
Delta = 8° 26' 48.50" (LT)
Degree = 2° 40' 47.56"
Tangent = 157.88
Length = 315.19
Radius = 2,138.00
External = 5.82
Long Chord = 314.91
Mid. Ord. = 5.81
P.C. Station 30+66.13 N 471,497.33 E 3,653,022.34
P.T. Station 33+81.32 N 471,389.47 E 3,653,318.20
C.C. N 473,446.63 E 3,653,900.57
Back = S 65° 44' 48.09" E
Ahead = S 74° 11' 36.59" E
Chord Bear = S 69° 58' 12.34" E

Curve Data
Curve GTP\_04
P.I. Station 35+40.79 N 471,346.04 E 3,653,471.64
Delta = 5° 33' 09.56" (LT)
Degree = 1° 44' 32.67"
Tangent = 159.46
Length = 318.68
Radius = 3,288.31
External = 3.86
Long Chord = 318.55
Mid. Ord. = 3.86
P.C. Station 33+81.32 N 471,389.47 E 3,653,318.20
P.T. Station 37+00.00 N 471,317.65 E 3,653,628.55
C.C. N 474,553.44 E 3,654,213.90
Back = S 74° 11' 36.59" E
Ahead = S 79° 44' 46.15" E
Chord Bear = S 76° 58' 11.37" E

Ending chain GTP description

Beginning chain GTP\_RMP\_NE description
Feature: - 50 Scale Baselines
Description: Proposed Ramp NE

Point GTPNE001 N 471,654.58 E 3,652,673.32 Sta 10+21.43

Course from GTPNE001 to PC GTP\_NE\_01 N 12° 48' 10.67" E Dist 723.62

Curve Data
Curve GTP\_NE\_01
P.I. Station 19+67.72 N 472,577.34 E 3,652,883.02
Delta = 4° 14' 29.99" (RT)
Degree = 0° 57' 10.31"
Tangent = 222.68
Length = 445.15
Radius = 6,013.00
External = 4.12
Long Chord = 445.05
Mid. Ord. = 4.12
P.C. Station 17+45.04 N 472,360.21 E 3,652,833.68
P.T. Station 21+90.19 N 472,790.24 E 3,652,948.29
C.C. N 471,027.73 E 3,658,697.18
Back = N 12° 48' 10.67" E
Ahead = N 17° 02' 40.66" E
Chord Bear = N 14° 55' 25.67" E

Ending chain GTP\_RMP\_NE description

Beginning chain GTP\_RMP\_SE description
Feature: - 50 Scale Baselines
Description: Proposed Ramp SE

Curve Data
Curve GTP\_SE\_01
P.I. Station 12+61.23 N 470,901.49 E 3,652,121.41
Delta = 5° 41' 49.61" (RT)
Degree = 1° 05' 28.85"
Tangent = 261.23
Length = 522.03
Radius = 5,250.00
External = 6.50
Long Chord = 521.81
Mid. Ord. = 6.49
P.C. Station 10+00.00 N 470,696.20 E 3,651,959.86
P.R.C. Station 15+22.03 N 471,089.72 E 3,652,302.54
C.C. N 467,449.48 E 3,656,085.55
Back = N 38° 12' 04.19" E
Ahead = N 43° 53' 53.80" E
Chord Bear = N 41° 02' 58.99" E

Curve Data
Curve GTP\_SE\_02
P.I. Station 18+33.26 N 471,313.99 E 3,652,518.35
Delta = 18° 36' 21.67" (LT)
Degree = 3° 00' 56.04"
Tangent = 311.24
Length = 617.00
Radius = 1,900.00
External = 25.32
Long Chord = 614.29
Mid. Ord. = 24.99
P.R.C. Station 15+22.03 N 471,089.72 E 3,652,302.54
P.T. Station 21+39.02 N 471,595.40 E 3,652,651.32
C.C. N 472,407.15 E 3,650,933.46
Back = N 43° 53' 53.80" E
Ahead = N 25° 17' 32.13" E
Chord Bear = N 34° 35' 42.96" E

Course from PT GTP\_SE\_02 to GTPSE004 N 25° 17' 32.13" E Dist 63.00

Point GTPSE004 N 471,652.36 E 3,652,678.24 Sta 22+02.03

Ending chain GTP\_RMP\_SE description

Beginning chain GTP\_RMP\_NW description
Feature: - 50 Scale Baselines
Description: Proposed Ramp NW

Point ALTNW001 N 471,845.37 E 3,652,247.61 Sta 4+81.73

Course from ALTNW001 to PC GTP\_NW\_01 N 35° 19' 16.57" E Dist 376.56

Curve Data
Curve GTP\_NW\_01
P.I. Station 10+11.00 N 472,277.21 E 3,652,553.61
Delta = 16° 44' 17.73" (LT)
Degree = 5° 31' 11.37"
Tangent = 152.71
Length = 303.24
Radius = 1,038.00
External = 11.17
Long Chord = 302.16
Mid. Ord. = 11.05
P.C. Station 8+58.30 N 472,152.61 E 3,652,465.33
P.C.C. Station 11+61.53 N 472,421.95 E 3,652,602.28
C.C. N 472,752.74 E 3,651,618.40
Back = N 35° 19' 16.57" E
Ahead = N 18° 34' 58.84" E
Chord Bear = N 26° 57' 07.70" E

Curve Data
Curve GTP\_NW\_02
P.I. Station 13+05.71 N 472,558.61 E 3,652,648.22
Delta = 2° 36' 55.19" (LT)
Degree = 0° 54' 25.75"
Tangent = 144.18
Length = 288.30
Radius = 6,316.00
External = 1.65
Long Chord = 288.28
Mid. Ord. = 1.64
P.C.C. Station 11+61.53 N 472,421.95 E 3,652,602.28
P.R.C. Station 14+49.84 N 472,697.22 E 3,652,687.89
C.C. N 474,434.73 E 3,646,615.58
Back = N 18° 34' 58.84" E
Ahead = N 15° 58' 03.65" E
Chord Bear = N 17° 16' 31.24" E

Curve Data
Curve GTP\_NW\_03
P.I. Station 16+88.33 N 472,926.52 E 3,652,753.49
Delta = 5° 23' 18.83" (RT)
Degree = 1° 07' 49.94"
Tangent = 238.49
Length = 476.64
Radius = 5,068.00
External = 5.61
Long Chord = 476.46
Mid. Ord. = 5.60
P.R.C. Station 14+49.84 N 472,697.22 E 3,652,687.89
P.C.C. Station 19+26.47 N 473,148.63 E 3,652,840.35
C.C. N 471,303.04 E 3,657,560.35
Back = N 15° 58' 03.65" E
Ahead = N 21° 21' 22.48" E
Chord Bear = N 18° 39' 43.06" E

Curve Data
Curve GTP\_NW\_04
P.I. Station 21+96.14 N 473,399.78 E 3,652,938.55
Delta = 16° 40' 31.48" (RT)
Degree = 3° 06' 50.04"
Tangent = 289.66
Length = 535.52
Radius = 1,840.00
External = 19.66
Long Chord = 533.63
Mid. Ord. = 19.45
P.C.C. Station 19+26.47 N 473,148.63 E 3,652,840.35
P.T. Station 24+61.99 N 473,612.19 E 3,653,104.69
C.C. N 472,478.57 E 3,654,554.00
Back = N 21° 21' 22.48" E
Ahead = N 38° 01' 53.95" E
Chord Bear = N 29° 41' 38.22" E

Course from PT GTP\_NW\_04 to ALTNW006 N 38° 01' 53.95" E Dist 80.90

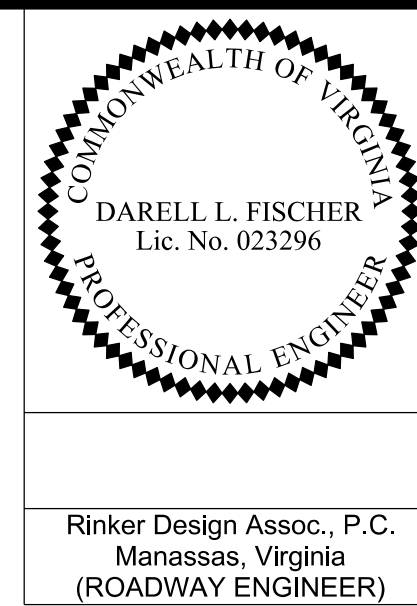
Point ALTNW006 N 473,675.91 E 3,653,154.53 Sta 25+42.89

Ending chain GTP\_RMP\_NW description

NOVA DISTRICT



# Construction Alignment Data



REVISED	STATE	ROUTE	STATE	VDOT PROJECT NO.	SHEET NO.
	VA.	495		0495-029-419 C501 RW201	IG(2) AREA 3

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

PROJECT MANAGER: VDOT - Rirapal 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

Chain LEW\_TRL description (Continued from Area 2)  
 Feature: - 50 Scale Baselines  
 Description: Proposed Lewinsville Road Trail

**Curve Data**  
 \*-----\*

Curve LEW\_TRL12  
 P.I. Station = 50+24.35 N 468,621.97 E 3,649,996.39  
 Delta = 1° 22' 55.89" (RT)  
 Degree = 1° 10' 04.88"  
 Tangent = 59.17  
 Length = 118.34  
 Radius = 4,905.37  
 External = 0.36  
 Long Chord = 118.33  
 Mid. Ord. = 0.36  
 P.C.C. Station = 49+65.18 N 468,568.63 E 3,649,970.79  
 P.C.C. Station = 50+83.52 N 468,674.69 E 3,650,023.28  
 C.C. = N 466,446.19 E 3,654,393.22  
 Back = N 25° 38' 15.28" E  
 Ahead = N 27° 01' 11.17" E  
 Chord Bear = N 26° 19' 43.23" E

**Curve Data**  
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Curve LEW\_TRL17  
 P.I. Station = 60+17.85 N 469,459.56 E 3,650,526.80  
 Delta = 10° 03' 42.30" (LT)  
 Degree = 54° 34' 02.67"  
 Tangent = 9.24  
 Length = 18.44  
 Radius = 105.00  
 External = 0.41  
 Long Chord = 18.42  
 Mid. Ord. = 0.40  
 P.R.C. Station = 60+08.61 N 469,453.39 E 3,650,519.92  
 P.R.C. Station = 60+27.05 N 469,466.84 E 3,650,532.49  
 C.C. = N 469,531.54 E 3,650,449.80  
 Back = N 48° 06' 05.57" E  
 Ahead = N 38° 02' 23.28" E  
 Chord Bear = N 43° 04' 14.42" E

**Curve Data**  
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Curve LEW\_TRL22  
 P.I. Station = 69+11.32 N 470,127.89 E 3,651,117.26  
 Delta = 8° 31' 31.77" (LT)  
 Degree = 19° 05' 54.94"  
 Tangent = 22.36  
 Length = 44.64  
 Radius = 300.00  
 External = 0.83  
 Long Chord = 44.60  
 Mid. Ord. = 0.83  
 P.R.C. Station = 68+88.96 N 470,113.62 E 3,651,100.04  
 P.T. Station = 69+33.60 N 470,144.55 E 3,651,132.17  
 C.C. = N 470,344.59 E 3,650,908.59  
 Back = N 50° 20' 39.44" E  
 Ahead = N 41° 49' 07.67" E  
 Chord Bear = N 46° 04' 53.56" E

**Curve Data**  
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Curve LEW\_TRL27  
 P.I. Station = 85+11.95 N 471,415.75 E 3,652,017.67  
 Delta = 32° 39' 07.74" (RT)  
 Degree = 19° 05' 54.93"  
 Tangent = 87.87  
 Length = 170.97  
 Radius = 300.00  
 External = 12.61  
 Long Chord = 168.66  
 Mid. Ord. = 12.10  
 P.R.C. Station = 84+24.07 N 471,328.38 E 3,652,008.25  
 P.R.C. Station = 85+95.04 N 471,484.23 E 3,652,072.74  
 C.C. = N 471,296.22 E 3,652,306.52  
 Back = N 6° 09' 13.00" E  
 Ahead = N 38° 48' 20.74" E  
 Chord Bear = N 22° 28' 46.87" E

**Curve Data**  
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Curve LEW\_TRL13  
 P.I. Station = 50+95.95 N 468,685.76 E 3,650,028.92  
 Delta = 2° 35' 25.60" (RT)  
 Degree = 10° 25' 02.70"  
 Tangent = 12.44  
 Length = 24.87  
 Radius = 550.00  
 External = 0.14  
 Long Chord = 24.86  
 Mid. Ord. = 0.14  
 P.C.C. Station = 50+83.52 N 468,674.69 E 3,650,023.28  
 P.T. Station = 51+08.39 N 468,696.58 E 3,650,035.07  
 C.C. = N 468,424.82 E 3,650,513.24  
 Back = N 27° 01' 11.17" E  
 Ahead = N 29° 36' 36.77" E  
 Chord Bear = N 28° 18' 53.97" E

**Curve Data**  
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Curve LEW\_TRL18  
 P.I. Station = 62+86.94 N 469,671.53 E 3,650,692.64  
 Delta = 6° 04' 10.59" (RT)  
 Degree = 1° 10' 07.77"  
 Tangent = 259.89  
 Length = 519.29  
 Radius = 4,902.00  
 External = 6.88  
 Long Chord = 519.05  
 Mid. Ord. = 6.87  
 P.R.C. Station = 60+27.05 N 469,466.84 E 3,650,532.49  
 P.T. Station = 65+46.34 N 469,858.13 E 3,650,873.53  
 C.C. = N 466,446.19 E 3,654,393.22  
 Back = N 38° 02' 23.28" E  
 Ahead = N 44° 06' 33.87" E  
 Chord Bear = N 41° 04' 28.57" E

**Curve Data**  
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Curve LEW\_TRL23  
 P.I. Station = 76+74.05 N 470,677.38 E 3,651,646.29  
 Delta = 9° 22' 56.76" (LT)  
 Degree = 1° 14' 12.43"  
 Tangent = 380.16  
 Length = 758.61  
 Radius = 4,632.63  
 External = 15.57  
 Long Chord = 757.77  
 Mid. Ord. = 15.52  
 P.C.C. Station = 72+93.89 N 470,404.42 E 3,651,381.69  
 P.C.C. Station = 80+52.50 N 470,989.82 E 3,651,862.85  
 C.C. = N 473,628.87 E 3,648,055.40  
 Back = N 44° 06' 33.87" E  
 Ahead = N 34° 43' 37.10" E  
 Chord Bear = N 39° 25' 05.48" E

Course from PT LEW\_TRL13 to PC LEW\_TRL14 N 29° 36' 36.77" E Dist 393.69

**Curve Data**  
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Curve LEW\_TRL14  
 P.I. Station = 55+14.51 N 469,049.67 E 3,650,235.74  
 Delta = 2° 35' 25.60" (RT)  
 Degree = 10° 25' 02.69"  
 Tangent = 12.44  
 Length = 24.87  
 Radius = 550.00  
 External = 0.14  
 Long Chord = 24.86  
 Mid. Ord. = 0.14  
 P.C.C. Station = 55+02.08 N 469,038.86 E 3,650,229.59  
 P.C.C. Station = 55+26.94 N 469,060.19 E 3,650,242.36  
 C.C. = N 468,767.10 E 3,650,707.77  
 Back = N 29° 36' 36.77" E  
 Ahead = N 32° 12' 02.37" E  
 Chord Bear = N 30° 54' 19.57" E

Course from PT LEW\_TRL18 to LEWTRL002 N 44° 06' 33.87" E Dist 128.70

Point LEWTRL002 N 469,950.54 E 3,650,963.11 Sta 66+75.04

Course from LEWTRL002 to PC LEW\_TRL19 N 41° 49' 07.67" E Dist 73.89

**Curve Data**  
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Curve LEW\_TRL19  
 P.I. Station = 67+60.40 N 470,014.15 E 3,651,020.02  
 Delta = 12° 27' 43.41" (LT)  
 Degree = 54° 34' 02.67"  
 Tangent = 11.46  
 Length = 22.84  
 Radius = 105.00  
 External = 0.62  
 Long Chord = 22.79  
 Mid. Ord. = 0.62  
 P.C. Station = 67+48.93 N 470,005.61 E 3,651,012.38  
 P.T. Station = 67+71.77 N 470,024.14 E 3,651,025.64  
 C.C. = N 470,075.62 E 3,650,934.12  
 Back = N 41° 49' 07.67" E  
 Ahead = N 29° 21' 24.26" E  
 Chord Bear = N 35° 35' 15.97" E

**Curve Data**  
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Curve LEW\_TRL24  
 P.I. Station = 81+05.95 N 471,033.74 E 3,651,893.30  
 Delta = 20° 12' 11.27" (LT)  
 Degree = 19° 05' 54.94"  
 Tangent = 53.45  
 Length = 105.78  
 Radius = 300.00  
 External = 4.72  
 Long Chord = 105.24  
 Mid. Ord. = 4.65  
 P.C.C. Station = 80+52.50 N 470,989.82 E 3,651,862.85  
 P.R.C. Station = 81+58.29 N 471,085.48 E 3,651,906.70  
 C.C. = N 471,160.72 E 3,651,616.29  
 Back = N 34° 43' 37.10" E  
 Ahead = N 14° 31' 25.83" E  
 Chord Bear = N 24° 37' 31.47" E

**Curve Data**  
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Curve LEW\_TRL15  
 P.I. Station = 57+58.33 N 469,255.98 E 3,650,365.66  
 Delta = 5° 24' 04.42" (RT)  
 Degree = 1° 10' 04.88"  
 Tangent = 231.38  
 Length = 462.43  
 Radius = 4,905.37  
 External = 5.45  
 Long Chord = 462.25  
 Mid. Ord. = 5.45  
 P.C.C. Station = 55+26.94 N 469,060.19 E 3,650,242.36  
 P.C.C. Station = 59+89.37 N 469,439.30 E 3,650,506.85  
 C.C. = N 466,446.19 E 3,654,393.22  
 Back = N 32° 12' 02.37" E  
 Ahead = N 37° 36' 06.79" E  
 Chord Bear = N 34° 54' 04.58" E

Course from PT LEW\_TRL19 to PC LEW\_TRL20 N 29° 21' 24.26" E Dist 23.41

**Curve Data**  
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Curve LEW\_TRL20  
 P.I. Station = 68+06.65 N 470,054.54 E 3,651,042.74  
 Delta = 12° 27' 43.41" (RT)  
 Degree = 54° 34' 02.67"  
 Tangent = 11.46  
 Length = 22.84  
 Radius = 105.00  
 External = 0.62  
 Long Chord = 22.79  
 Mid. Ord. = 0.62  
 P.C. Station = 67+95.18 N 470,044.55 E 3,651,037.12  
 P.T. Station = 68+18.02 N 470,063.08 E 3,651,050.38  
 C.C. = N 469,993.07 E 3,651,128.64  
 Back = N 29° 21' 24.26" E  
 Ahead = N 41° 49' 07.67" E  
 Chord Bear = N 35° 35' 15.97" E

**Curve Data**  
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Curve LEW\_TRL25  
 P.I. Station = 82+14.42 N 471,139.82 E 3,651,920.78  
 Delta = 21° 11' 44.23" (RT)  
 Degree = 19° 05' 54.93"  
 Tangent = 56.13  
 Length = 110.98  
 Radius = 300.00  
 External = 5.21  
 Long Chord = 110.35  
 Mid. Ord. = 5.12  
 P.R.C. Station = 81+58.29 N 471,085.48 E 3,651,906.70  
 P.R.C. Station = 82+69.27 N 471,185.39 E 3,651,953.55  
 C.C. = N 471,010.25 E 3,652,197.11  
 Back = N 14° 31' 25.83" E  
 Ahead = N 35° 43' 10.06" E  
 Chord Bear = N 25° 07' 17.95" E

**Curve Data**  
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Curve LEW\_TRL16  
 P.I. Station = 59+99.02 N 469,446.95 E 3,650,512.73  
 Delta = 10° 29' 58.78" (RT)  
 Degree = 54° 34' 02.68"  
 Tangent = 9.65  
 Length = 19.24  
 Radius = 105.00  
 External = 0.44  
 Long Chord = 19.21  
 Mid. Ord. = 0.44  
 P.C.C. Station = 59+89.37 N 469,439.30 E 3,650,506.85  
 P.R.C. Station = 60+08.61 N 469,453.39 E 3,650,519.92  
 C.C. = N 469,375.24 E 3,650,590.04  
 Back = N 37° 36' 06.79" E  
 Ahead = N 48° 06' 05.57" E  
 Chord Bear = N 42° 51' 06.18" E

Course from PT LEW\_TRL20 to PC LEW\_TRL21 N 41° 49' 07.67" E Dist 26.30

**Curve Data**  
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Curve LEW\_TRL21  
 P.I. Station = 68+66.68 N 470,099.35 E 3,651,082.83  
 Delta = 8° 31' 31.77" (RT)  
 Degree = 19° 05' 54.94"  
 Tangent = 22.36  
 Length = 44.64  
 Radius = 300.00  
 External = 0.83  
 Long Chord = 44.60  
 Mid. Ord. = 0.83  
 P.C. Station = 68+44.32 N 470,082.68 E 3,651,067.92  
 P.R.C. Station = 68+88.96 N 470,113.62 E 3,651,100.04  
 C.C. = N 469,882.65 E 3,651,291.50  
 Back = N 41° 49' 07.67" E  
 Ahead = N 50° 20' 39.44" E  
 Chord Bear = N 46° 04' 53.56" E

**Curve Data**  
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Curve LEW\_TRL26  
 P.I. Station = 83+48.44 N 471,249.67 E 3,651,999.77  
 Delta = 29° 33' 57.05" (LT)  
 Degree = 19° 05' 54.94"  
 Tangent = 79.17  
 Length = 154.81  
 Radius = 300.00  
 External = 10.27  
 Long Chord = 153.09  
 Mid. Ord. = 9.93  
 P.R.C. Station = 82+69.27 N 471,185.39 E 3,651,953.55  
 P.R.C. Station = 84+24.07 N 471,328.38 E 3,652,008.25  
 C.C. = N 471,360.54 E 3,651,709.98  
 Back = N 35° 43' 10.06" E  
 Ahead = N 6° 09' 13.00" E  
 Chord Bear = N 20° 56' 11.53" E

**Curve Data**  
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Curve LEW\_TRL28  
 P.I. Station = 86+47.58 N 471,525.16 E 3,652,105.66  
 Delta = 19° 51' 55.76" (LT)  
 Degree = 19° 05' 54.93"  
 Tangent = 52.54  
 Length = 104.02  
 Radius = 300.00  
 External = 4.57  
 Long Chord = 103.50  
 Mid. Ord. = 4.50  
 P.R.C. Station = 85+95.04 N 471,484.23 E 3,652,072.74  
 P.T. Station = 86+99.06 N 471,574.86 E 3,652,122.72  
 C.C. = N 471,672.23 E 3,651,838.96  
 Back = N 38° 48' 20.74" E  
 Ahead = N 18° 56' 24.98" E  
 Chord Bear = N 28° 52' 22.86" E

Course from PT LEW\_TRL28 to PC LEW\_TRL29 N 18° 56' 24.98" E Dist 174.62

**Curve Data**  
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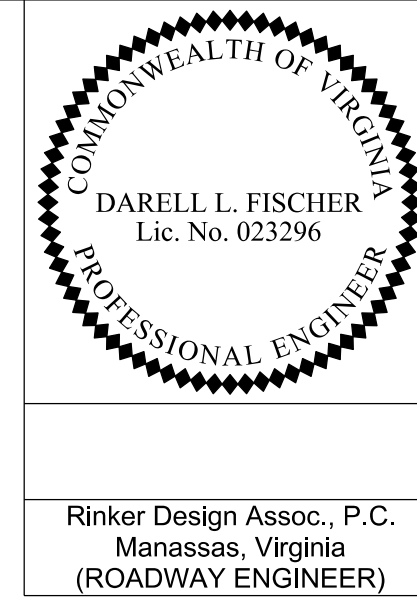
Curve LEW\_TRL29  
 P.I. Station = 89+31.32 N 471,794.54 E 3,652,198.10  
 Delta = 87° 41' 49.84" (LT)  
 Degree = 95° 29' 34.68"  
 Tangent = 57.64  
 Length = 91.84  
 Radius = 60.00  
 External = 23.20  
 Long Chord = 83.13  
 Mid. Ord. = 16.73  
 P.C. Station = 88+73.68 N 471,740.02 E 3,652,179.40  
 P.T. Station = 89+65.52 N 471,815.42 E 3,652,144.38  
 C.C. = N 471,759.50 E 3,652,122.65  
 Back = N 18° 56' 24.98" E  
 Ahead = N 68° 45' 24.86" W  
 Chord Bear = N 24° 54' 29.94" W

Ending chain LEW\_TRL description

NOVA DISTRICT

10/16/2022

APPROVED FOR CONSTRUCTION



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

Table with columns: STATE, ROUTE, VDOT PROJECT NO., SHEET NO. Values: VA, 495, 0495-029-419 C501 RW201, IG(3) AREA 3

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

# Construction Alignment Data

PROJECT MANAGER: JDOT - Rirapal Shah, PE, (703) 259-2362  
SURVEYED BY, DATE: RDA - Nicholas Kaugaulis, LS, (703) 334-0837, 12/2/2021  
DESIGN BY: RDA - Darrell Fischer, PE, (703) 334-0823  
SUBSURFACE UTILITY BY, DATE: Accumark - Michael Taylor, LS, (703) 635-3060, 12/2/2021

Beginning chain BH\_TRL description  
Feature: - 50 Scale Baselines  
Description: Proposed Balls Hill Trail

Curve Data  
Curve BH\_TRL1  
P.I. Station 10+47.62 N 471,623.29 E 3,653,012.47  
Delta = 6° 48' 59.51" (RT)  
Degree = 67° 24' 24.48"  
Tangent = 5.06  
Length = 10.11  
Radius = 85.00  
External = 0.15  
Long Chord = 10.11  
Mid. Ord. = 0.15  
P.C. Station 10+42.56 N 471,618.78 E 3,653,010.18  
P.R.C. Station 10+52.67 N 471,627.50 E 3,653,015.28  
C.C. N 471,580.30 E 3,653,085.97  
Back = N 26° 54' 55.31" E  
Ahead = N 33° 43' 54.82" E  
Chord Bear = N 30° 19' 25.06" E

Curve Data  
Curve BH\_TRL2  
P.I. Station 10+64.27 N 471,637.14 E 3,653,021.72  
Delta = 15° 31' 59.62" (LT)  
Degree = 67° 24' 35.98"  
Tangent = 11.59  
Length = 23.04  
Radius = 85.00  
External = 0.79  
Long Chord = 22.97  
Mid. Ord. = 0.78  
P.R.C. Station 10+52.67 N 471,627.50 E 3,653,015.28  
P.C.C. Station 10+75.72 N 471,648.16 E 3,653,025.34  
C.C. N 471,674.70 E 3,652,944.59  
Back = N 33° 43' 54.82" E  
Ahead = N 18° 11' 55.21" E  
Chord Bear = N 25° 57' 55.01" E

Curve Data  
Curve BH\_TRL3  
P.I. Station 12+47.25 N 471,811.11 E 3,653,078.91  
Delta = 16° 05' 54.72" (LT)  
Degree = 4° 43' 25.23"  
Tangent = 171.53  
Length = 340.81  
Radius = 1,212.95  
External = 12.07  
Long Chord = 339.69  
Mid. Ord. = 11.95  
P.C.C. Station 10+75.72 N 471,648.16 E 3,653,025.34  
P.T. Station 14+16.52 N 471,982.53 E 3,653,085.19  
C.C. N 472,026.97 E 3,651,873.06  
Back = N 18° 11' 55.21" E  
Ahead = N 2° 06' 00.48" E  
Chord Bear = N 10° 08' 57.84" E

Course from PT BH\_TRL3 to ALTBHTRL002 N 2° 06' 00.48" E Dist 403.01  
Point ALTBHTRL002 N 472,385.27 E 3,653,099.96 Sta 18+19.53  
Course from ALTBHTRL002 to ALTBHTRL003 N 1° 59' 47.46" E Dist 188.32  
Point ALTBHTRL003 N 472,573.47 E 3,653,106.52 Sta 20+07.85  
Course from ALTBHTRL003 to ALTBHTRL004 N 0° 10' 36.22" W Dist 196.87  
Point ALTBHTRL004 N 472,770.35 E 3,653,105.92 Sta 22+04.73  
Course from ALTBHTRL004 to PC BH\_TRL4 N 0° 19' 42.81" W Dist 252.91

Curve Data  
Curve BH\_TRL4  
P.I. Station 25+43.02 N 473,108.63 E 3,653,103.98  
Delta = 27° 25' 01.41" (RT)  
Degree = 16° 22' 12.80"  
Tangent = 85.38  
Length = 167.48  
Radius = 350.00  
External = 10.26  
Long Chord = 165.89  
Mid. Ord. = 9.97  
P.C. Station 24+57.64 N 473,023.26 E 3,653,104.47  
P.C.C. Station 26+25.12 N 473,184.64 E 3,653,142.85  
C.C. N 473,025.26 E 3,653,454.46  
Back = N 0° 19' 42.81" W  
Ahead = N 27° 05' 18.61" E  
Chord Bear = N 13° 22' 47.90" E

Curve Data  
Curve BH\_TRL5  
P.I. Station 30+79.59 N 473,589.26 E 3,653,349.80  
Delta = 27° 32' 49.46" (RT)  
Degree = 3° 05' 25.67"  
Tangent = 454.47  
Length = 891.36  
Radius = 1,853.95  
External = 54.89  
Long Chord = 882.80  
Mid. Ord. = 53.31  
P.C.C. Station 26+25.12 N 473,184.64 E 3,653,142.85  
P.C.C. Station 35+16.48 N 473,852.29 E 3,653,720.41  
C.C. N 472,340.41 E 3,654,793.44  
Back = N 27° 05' 18.61" E  
Ahead = N 54° 38' 08.06" E  
Chord Bear = N 40° 51' 43.33" E

Beginning chain ENTR\_GTP\_3385L description  
Feature: - 50 Scale Baselines  
Description: Georgetown Pike Driveway Entrance  
Point ENTRGTP3301 N 471,388.31 E 3,653,322.31 Sta 10+00.00  
Course from ENTRGTP3301 to ENTRGTP3302 N 1° 20' 27.85" E Dist 150.00  
Point ENTRGTP3302 N 471,538.27 E 3,653,325.82 Sta 11+50.00  
Ending chain ENTR\_GTP\_3385L description

Beginning chain CELLTOWER description  
Feature: - 50 Scale Baselines  
Description: Proposed Cell Tower Access Road  
Point CELLTOWER01 N 471,341.14 E 3,652,506.24 Sta 10+00.00  
Course from CELLTOWER01 to PC CELLTOWER01 N 55° 52' 16.64" W Dist 15.12

Curve Data  
Curve CELLTOWER01  
P.I. Station 10+35.88 N 471,361.28 E 3,652,476.53  
Delta = 89° 21' 42.04" (RT)  
Degree = 272° 50' 13.36"  
Tangent = 20.77  
Length = 32.75  
Radius = 21.00  
External = 8.53  
Long Chord = 29.53  
Mid. Ord. = 6.07  
P.C. Station 10+15.12 N 471,349.62 E 3,652,493.72  
P.R.C. Station 10+47.87 N 471,378.60 E 3,652,487.99  
C.C. N 471,367.01 E 3,652,505.51  
Back = N 55° 52' 16.64" W  
Ahead = N 33° 29' 25.40" E  
Chord Bear = N 11° 11' 25.62" W

Curve Data  
Curve CELLTOWER02  
P.I. Station 11+18.45 N 471,437.46 E 3,652,526.94  
Delta = 4° 20' 12.74" (LT)  
Degree = 3° 04' 25.71"  
Tangent = 70.58  
Length = 141.09  
Radius = 1,864.00  
External = 1.34  
Long Chord = 141.06  
Mid. Ord. = 1.33  
P.R.C. Station 10+47.87 N 471,378.60 E 3,652,487.99  
P.T. Station 11+88.96 N 471,499.10 E 3,652,561.32  
C.C. N 472,407.15 E 3,650,933.46  
Back = N 33° 29' 25.40" E  
Ahead = N 29° 09' 12.65" E  
Chord Bear = N 31° 19' 19.03" E

Ending chain CELLTOWER description  
Chain BH\_RD\_SWM\_ENTR contains:  
SWM001 SWM002

Beginning chain BH\_RD\_SWM\_ENTR description  
Point SWM001 N 471,305.96 E 3,652,929.24 Sta 10+00.00  
Course from SWM001 to SWM002 N 52° 41' 42.25" W Dist 150.00  
Point SWM002 N 471,396.87 E 3,652,809.93 Sta 11+50.00  
Ending chain BH\_RD\_SWM\_ENTR description

Beginning chain LINGANORE description

Point LINGANORE001 N 472,000.72 E 3,651,849.88 Sta 10+00.00  
Course from LINGANORE001 to LINGANORE002 N 23° 02' 56.80" E Dist 213.56  
Point LINGANORE002 N 472,197.23 E 3,651,933.49 Sta 12+13.56  
Ending chain LINGANORE description

Beginning chain HELGAPLACE description

Point HELGA001 N 472,004.25 E 3,651,840.79 Sta 10+00.00  
Course from HELGA001 to PC HELGA001 S 21° 14' 35.14" W Dist 114.65

Curve Data  
Curve HELGA001  
P.I. Station 11+68.99 N 471,846.75 E 3,651,779.56  
Delta = 59° 48' 27.34" (LT)  
Degree = 60° 38' 26.30"  
Tangent = 54.34  
Length = 98.63  
Radius = 94.48  
External = 14.51  
Long Chord = 94.21  
Mid. Ord. = 12.58  
P.C. Station 11+14.65 N 471,897.39 E 3,651,799.25  
P.T. Station 12+13.27 N 471,804.26 E 3,651,813.44  
C.C. N 471,863.16 E 3,651,887.32  
Back = S 21° 14' 35.14" W  
Ahead = S 38° 33' 52.20" E  
Chord Bear = S 8° 39' 38.53" E

Ending chain HELGAPLACE description

Beginning chain GTP\_RMP\_TEMP description  
Feature: - 50 Scale Baselines  
Description: Temporary Ramp NW

Point 177 N 471,858.18 E 3,652,216.25 Sta 0+00.00  
Course from 177 to PC GTP\_RMP\_TEMP\_3 N 34° 38' 10.45" E Dist 19.94

Curve Data  
Curve GTP\_RMP\_TEMP\_3  
P.I. Station 2+54.30 N 472,067.41 E 3,652,360.78  
Delta = 7° 39' 41.32" (LT)  
Degree = 1° 38' 13.28"  
Tangent = 234.36  
Length = 468.01  
Radius = 3,500.00  
External = 7.84  
Long Chord = 467.66  
Mid. Ord. = 7.82  
P.C. Station 0+19.94 N 471,874.59 E 3,652,227.58  
P.T. Station 4+87.96 N 472,276.27 E 3,652,467.08  
C.C. N 473,863.86 E 3,649,347.86  
Back = N 34° 38' 10.45" E  
Ahead = N 26° 58' 29.14" E  
Chord Bear = N 30° 48' 19.79" E

Course from PT GTP\_RMP\_TEMP\_3 to PC GTP\_RMP\_TEMP\_6 N 26° 58' 29.13" E Dist 3.63

Curve Data  
Curve GTP\_RMP\_TEMP\_6  
P.I. Station 5+46.16 N 472,328.15 E 3,652,493.49  
Delta = 2° 04' 36.72" (LT)  
Degree = 1° 54' 10.36"  
Tangent = 54.58  
Length = 109.14  
Radius = 3,011.01  
External = 0.49  
Long Chord = 109.14  
Mid. Ord. = 0.49  
P.C. Station 4+91.59 N 472,279.51 E 3,652,468.73  
P.T. Station 6+00.73 N 472,377.65 E 3,652,516.47  
C.C. N 473,645.29 E 3,649,785.30  
Back = N 26° 58' 29.14" E  
Ahead = N 24° 53' 52.42" E  
Chord Bear = N 25° 56' 10.78" E

Curve Data  
Curve GTP\_RMP\_TEMP\_7  
P.I. Station 6+95.57 N 472,463.68 E 3,652,556.39  
Delta = 1° 48' 16.68" (LT)  
Degree = 0° 57' 05.19"  
Tangent = 94.84  
Length = 189.67  
Radius = 6,022.00  
External = 0.75  
Long Chord = 189.67  
Mid. Ord. = 0.75  
P.C. Station 6+00.73 N 472,377.65 E 3,652,516.47  
P.T. Station 7+90.40 N 472,550.92 E 3,652,593.60  
C.C. N 474,912.93 E 3,647,054.15  
Back = N 24° 53' 52.42" E  
Ahead = N 23° 05' 35.74" E  
Chord Bear = N 23° 59' 44.08" E

Curve Data  
Curve GTP\_RMP\_TEMP\_8  
P.I. Station 8+46.46 N 472,602.49 E 3,652,615.58  
Delta = 0° 50' 07.26" (LT)  
Degree = 0° 44' 42.43"  
Tangent = 56.06  
Length = 112.11  
Radius = 7,689.48  
External = 0.20  
Long Chord = 112.11  
Mid. Ord. = 0.20  
P.C. Station 7+90.40 N 472,550.92 E 3,652,593.60  
P.T. Station 9+02.51 N 472,654.37 E 3,652,636.82  
C.C. N 475,566.96 E 3,645,520.29  
Back = N 23° 05' 35.74" E  
Ahead = N 22° 15' 28.48" E  
Chord Bear = N 22° 40' 32.11" E

Ending chain GTP\_RMP\_TEMP description

NOVA DISTRICT

10/6/2022

Table with columns: VDOT PROJECT NO., SHEET NO. Values: 0495-029-419, IG(3) AREA 3

APPROVED FOR CONSTRUCTION



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 Jakomlitch, 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 3

## 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

10/6/2022

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 3
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APPROVED FOR CONSTRUCTION



PROJECT MANAGER VDOT - Rimpal 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

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 (Beltsway) and Express Lanes.

Table with columns for Weekday, Single-Lane Closures or Shoulder, Complete Road Closure. Includes sections for Route 267 Connector and Weekend closures.

Table with columns for Arterial, Weekday, Multiple-Lane Closures, Weekend. Includes sections for Single-Lane Closures\* or Shoulder and Multiple-Lane Closures.

\*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.
B. Stationary temporary traffic control zone shall not be initially put in place, adjusted, or removed during the following Holiday time periods without the written permission of the Concessionaire.
C. Stationary temporary traffic control zone shall not be initially put in place, adjusted, or removed during the following Holiday time periods without the written permission of the Concessionaire.
D. Stationary temporary traffic control zone shall not be initially put in place, adjusted, or removed during the following Holiday time periods without the written permission of the Concessionaire.
E. Stationary temporary traffic control zone shall not be initially put in place, adjusted, or removed during the following Holiday time periods without the written permission of the Concessionaire.
F. Stationary temporary traffic control zone shall not be initially put in place, adjusted, or removed during the following Holiday time periods without the written permission of the Concessionaire.
G. Stationary temporary traffic control zone shall not be initially put in place, adjusted, or removed during the following Holiday time periods without the written permission of the Concessionaire.
H. Stationary temporary traffic control zone shall not be initially put in place, adjusted, or removed during the following Holiday time periods without the written permission of the Concessionaire.
I. Stationary temporary traffic control zone shall not be initially put in place, adjusted, or removed during the following Holiday time periods without the written permission of the Concessionaire.
J. Stationary temporary traffic control zone shall not be initially put in place, adjusted, or removed during the following Holiday time periods without the written permission of the Concessionaire.
K. Stationary temporary traffic control zone shall not be initially put in place, adjusted, or removed during the following Holiday time periods without the written permission of the Concessionaire.
L. Stationary temporary traffic control zone shall not be initially put in place, adjusted, or removed during the following Holiday time periods without the written permission of the Concessionaire.
M. Stationary temporary traffic control zone shall not be initially put in place, adjusted, or removed during the following Holiday time periods without the written permission of the Concessionaire.
N. Stationary temporary traffic control zone shall not be initially put in place, adjusted, or removed during the following Holiday time periods without the written permission of the Concessionaire.
O. Stationary temporary traffic control zone shall not be initially put in place, adjusted, or removed during the following Holiday time periods without the written permission of the Concessionaire.
P. Stationary temporary traffic control zone shall not be initially put in place, adjusted, or removed during the following Holiday time periods without the written permission of the Concessionaire.
Q. Stationary temporary traffic control zone shall not be initially put in place, adjusted, or removed during the following Holiday time periods without the written permission of the Concessionaire.
R. Stationary temporary traffic control zone shall not be initially put in place, adjusted, or removed during the following Holiday time periods without the written permission of the Concessionaire.
S. Stationary temporary traffic control zone shall not be initially put in place, adjusted, or removed during the following Holiday time periods without the written permission of the Concessionaire.
T. Stationary temporary traffic control zone shall not be initially put in place, adjusted, or removed during the following Holiday time periods without the written permission of the Concessionaire.
U. Stationary temporary traffic control zone shall not be initially put in place, adjusted, or removed during the following Holiday time periods without the written permission of the Concessionaire.
V. Stationary temporary traffic control zone shall not be initially put in place, adjusted, or removed during the following Holiday time periods without the written permission of the Concessionaire.
W. Stationary temporary traffic control zone shall not be initially put in place, adjusted, or removed during the following Holiday time periods without the written permission of the Concessionaire.
X. Stationary temporary traffic control zone shall not be initially put in place, adjusted, or removed during the following Holiday time periods without the written permission of the Concessionaire.
Y. Stationary temporary traffic control zone shall not be initially put in place, adjusted, or removed during the following Holiday time periods without the written permission of the Concessionaire.
Z. Stationary temporary traffic control zone shall not be initially put in place, adjusted, or removed during the following Holiday time periods without the written permission of the Concessionaire.

- 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 single 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 3

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

Table listing contact information for Project Manager (Rimpal Shah), Construction Manager (Dave Reynolds), Assist. Project Engineer (Maurilio Campos), Public Relations (John Udeland), VDOT Construction Manager (Jesus Hernandez), MOT Manager (James Compton), MOT Engineer (John Giometti), Emergency Call (911), Miss Utility (811), Non-Emergency Numbers (Fairfax County Police: (703) 691-2131, Fairfax County Fire & Rescue: (703) 246-2126).

Box containing TMP/SOC Designer information (John A. Giometti, P.E.), VDOT logo, and certification details (Virginia Department of Transportation, Verification Number: 08312101, Date: 8/31/2025).

Table with columns: VDOT PROJECT NO., SHEET NO., AREA. Values: 0495-029-419, IJ AREA 3

APPROVED FOR CONSTRUCTION

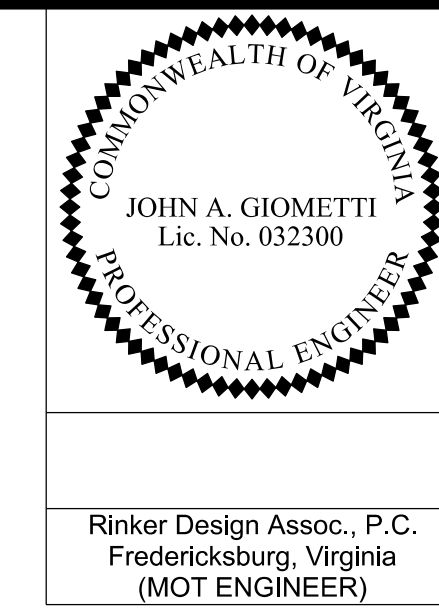
NOVA DISTRICT

10/6/2022



PROJECT MANAGER VDOT - *Ritapal 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 - Mitchell Taylor, LS, (703) 635-3060, 12/2021*

# Temporary Traffic Control Narrative and Typical Sections Phase IA



REVISED	STATE	ROUTE	STATE	VDOT PROJECT NO.	SHEET NO.
	VA	495		0495-029-419 C501 RW201	I(J)(A) AREA 3

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)

**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 and Southbound outside widening  
 - Scott's Run bridge  
 - Georgetown Pike widening and Georgetown Pike bridge  
 - Georgetown Pike Ramp SE  
 - Georgetown Pike Ramp SW  
 - Georgetown Pike Ramp NE  
 - Balls Hill Road mill & overlay  
 - Lewinsville Trail and 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 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.

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-I, 4.2, 5.2, 6.2, 7.1, 16.2, 17.2, 18.2, 23.2, 28.2, 29.2, 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 VMAP, 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 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.

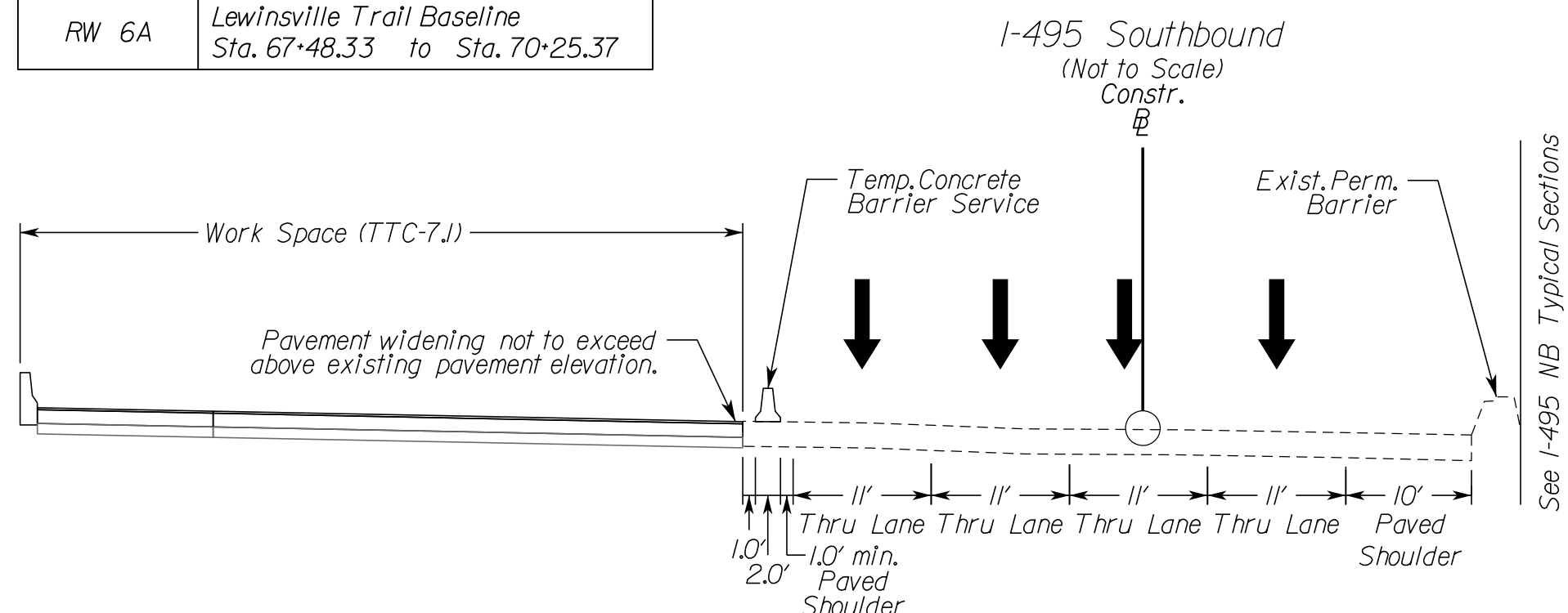
Refer to ITS plans, under separate cover, for PCMS locations and CCTV adjustments.

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

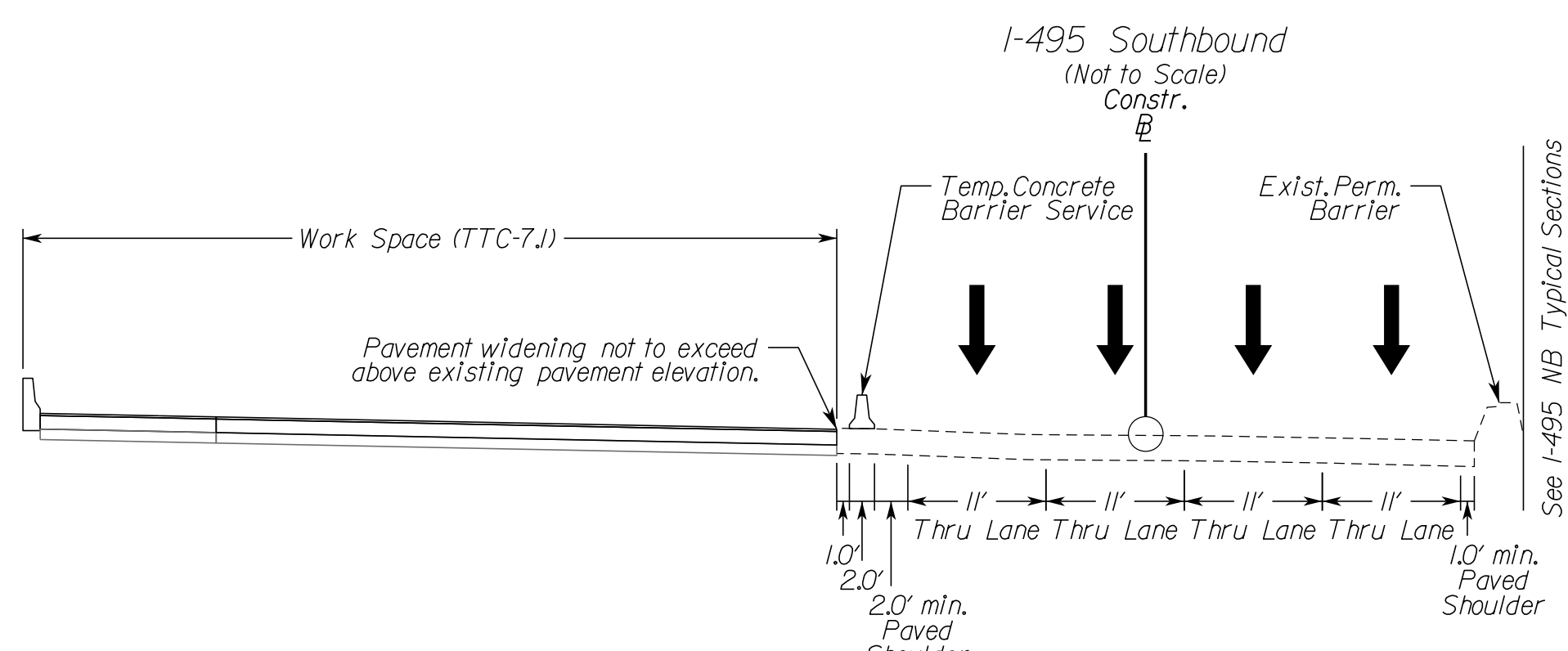
Name	Baseline/Station Range
RW 4/4A	495NB Baseline Sta. 617+13.17 to Sta. 631+30.00
RW 16A	GTP Ramp NE Baseline Sta. 11+74.43 to Sta. 29+64.33
RW 28	Lewinsville Trail Baseline Sta. 54+44.84 to Sta. 56+09.35
RW 7A	495SB Baseline Sta. 225+44.86 to Sta. 236+76.77
RW 6A	Lewinsville Trail Baseline Sta. 67+48.33 to Sta. 70+25.37

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

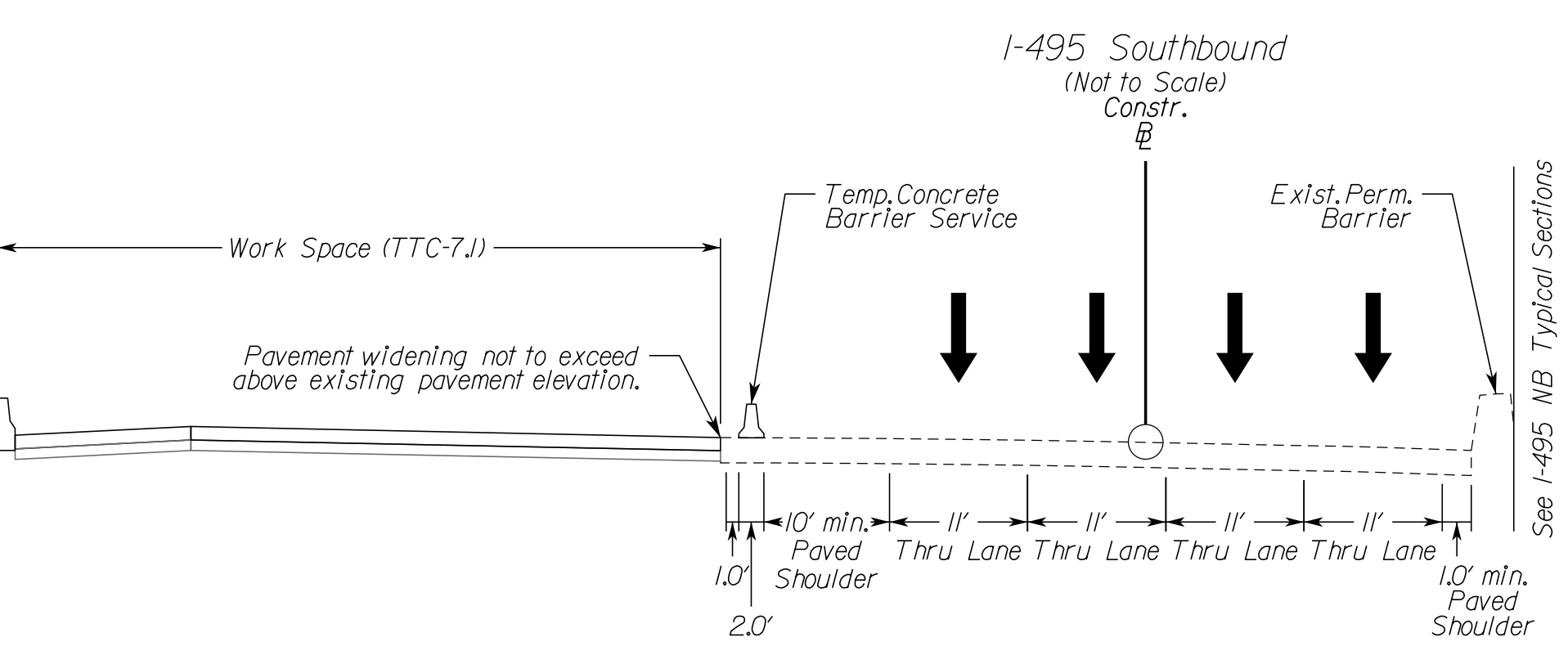
Name	Baseline/Station Range
Noise Barrier 13A	495SB Baseline Sta. 214+53.34 to Sta. 253+77.25
Noise Barrier 13E	495NB Baseline Sta. 615+10.24 to Sta. 639+09.41
Noise Barrier 8	GTP Ramp NE Baseline Sta. 16+04.24 to Sta. 21+90.19



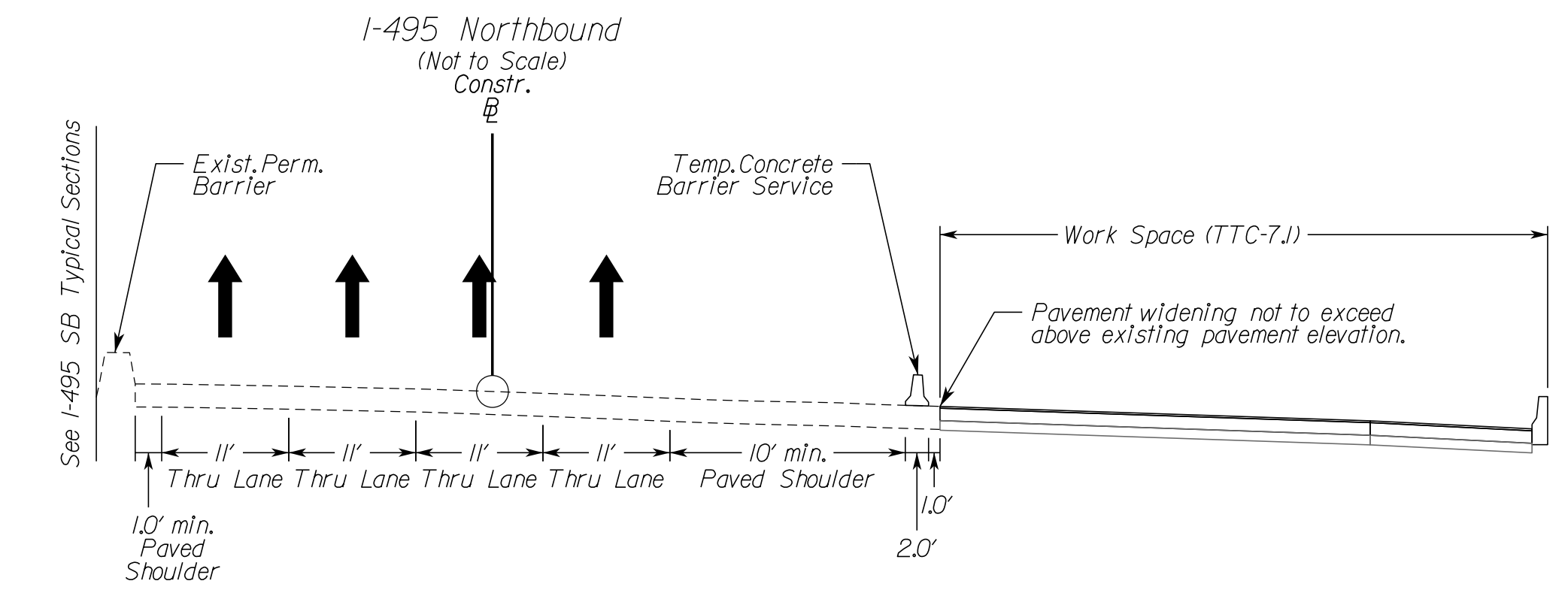
STATION	TO	STATION
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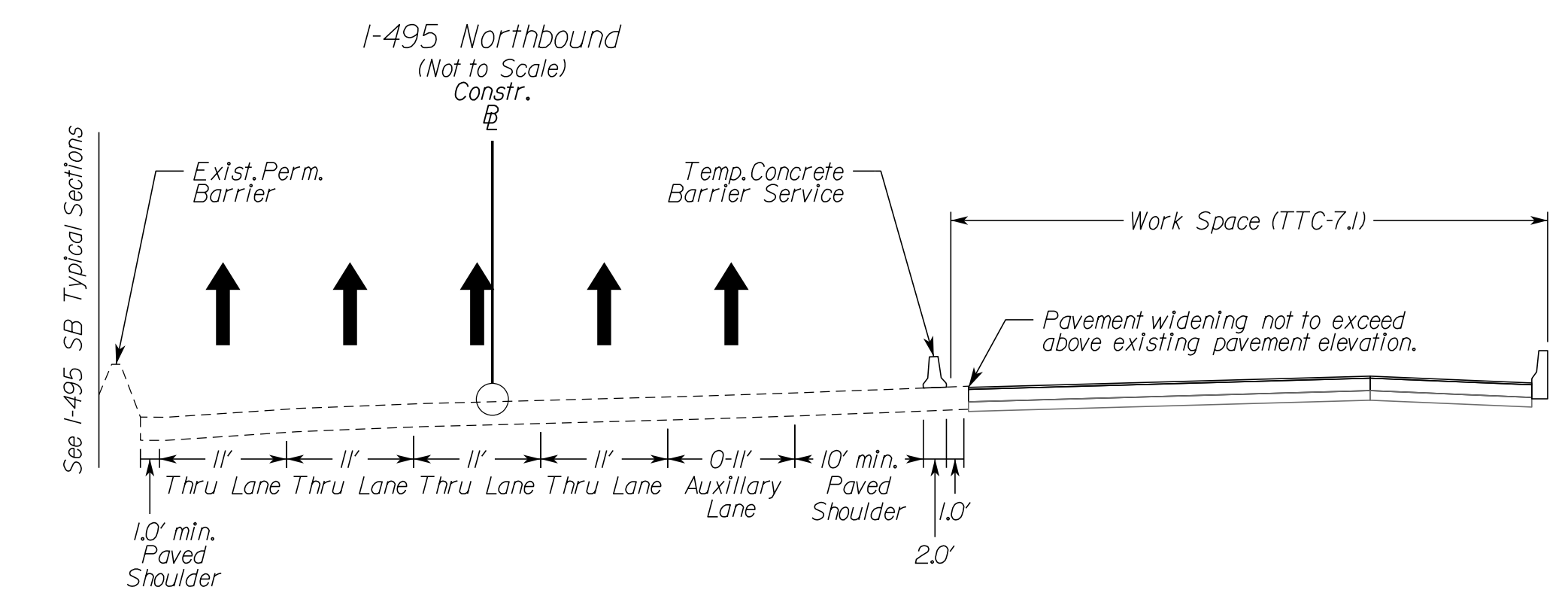
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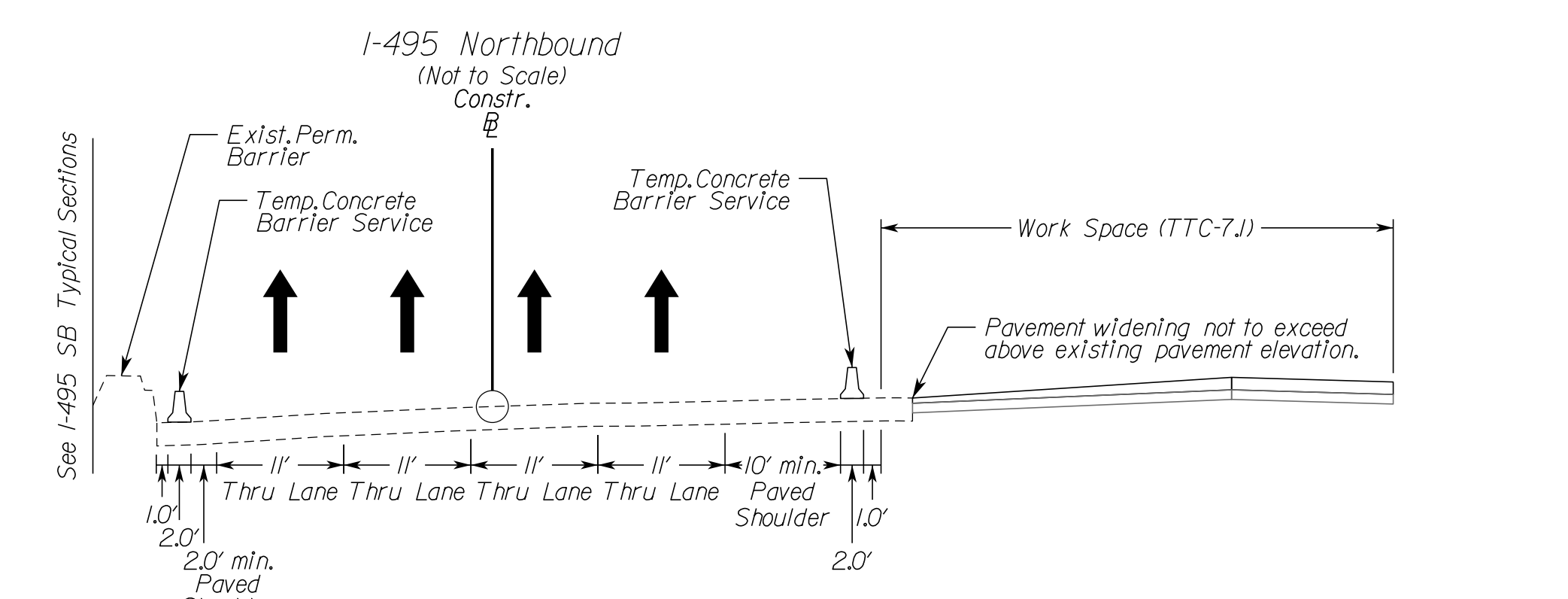
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246+30		255+00



STATION	TO	STATION
615+00		633+95
641+05		654+00
656+00		666+50



STATION	TO	STATION
633+95		641+05
666+50		675+00



STATION	TO	STATION
654+00		656+00

Posted/Design Speed Summary Table

Area	Ramp/Roadway	Speed (mph)
A1,A2,A3,A4	I-495 General Purpose Lanes	55
A1,A2,A3,A4	I-495 Express Lanes	65 (south of GTP) 55 (north of GTP)
A1	Dulles Access Road	55
A1	Dulles Toll Road (SR 267)	55
A1	Temporary DTR Ramp (I-495 N to SR 267 W)	40
A1	Proposed DTR Ramp E1 (SR 267 E to I-495 N XL)	30 (ramp advisory)
A1	Proposed DTR Ramp E3 (SR 267 W to I-495 N XL)	30 (exit advisory)
A1	Existing DTR Ramp E4 (SR 267 E to I-495 S)	35 (exit advisory) 25 (ramp advisory)
A1	Proposed DTR Ramp E4 (SR 267 E to I-495 S XL)	30 (ramp advisory)
A1	Existing DTR Ramp (SR 267 E to I-495 N)	25 (ramp advisory)
A1	Proposed DTR Ramp G3 (SR 267 E to I-495 N)	25 (ramp advisory)
A1	Existing DTR Ramp (I-495 N XL to SR 267 W)	45 (ramp advisory) 25 (ramp advisory)
A1	Existing DTR Ramp (I-495 N to SR 267 W)	25 (exit advisory)
A1	Existing DTR Ramp (I-495 S to SR 267 E)	25 (exit advisory)
A1	Existing DTR Ramp (I-495 S to SR 267 W)	40 (exit advisory)
A1,A2	Existing DTR Ramp G10 (SR 267 W to I-495 N)	30 (exit advisory)
A1,A2	Proposed DTR Ramp G10 (SR 267 W to I-495 N)	30 (exit advisory)
A2	Lewinsville 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)

NOVA DISTRICT

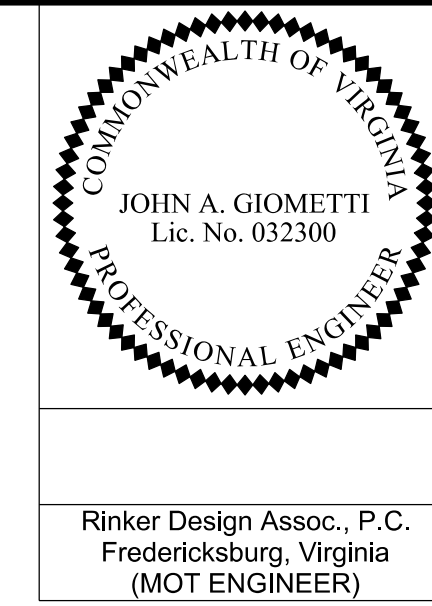
10/16/2022

APPROVED FOR CONSTRUCTION

VDOT PROJECT NO.	SHEET NO.
0495-029-419	I(J)(A) AREA 3

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 Accumark - Michael Taylor, LS (703) 635-3060, 12/2021

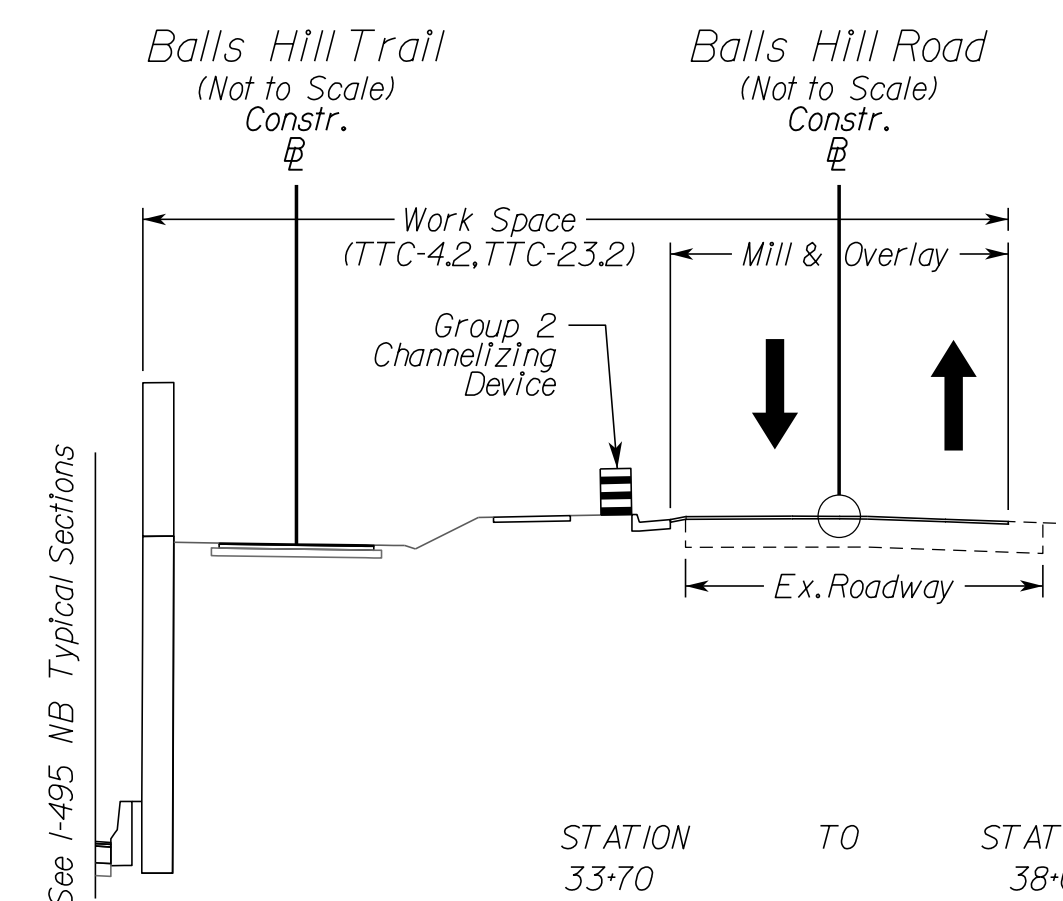
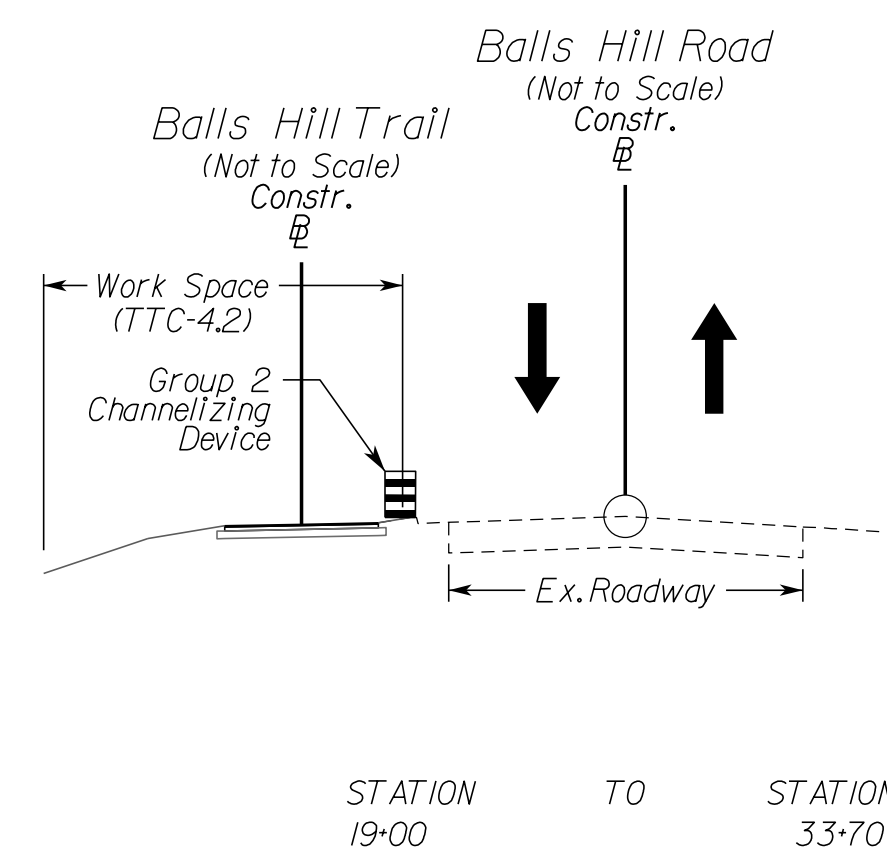
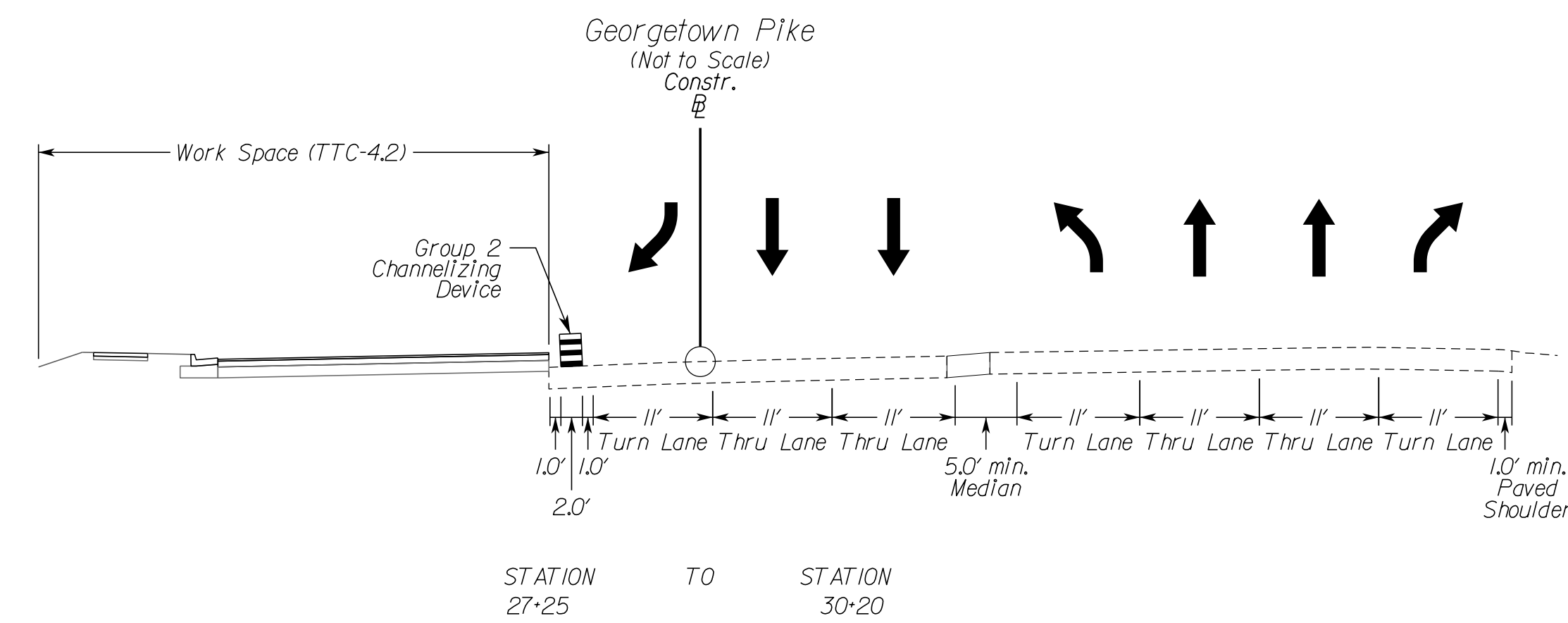
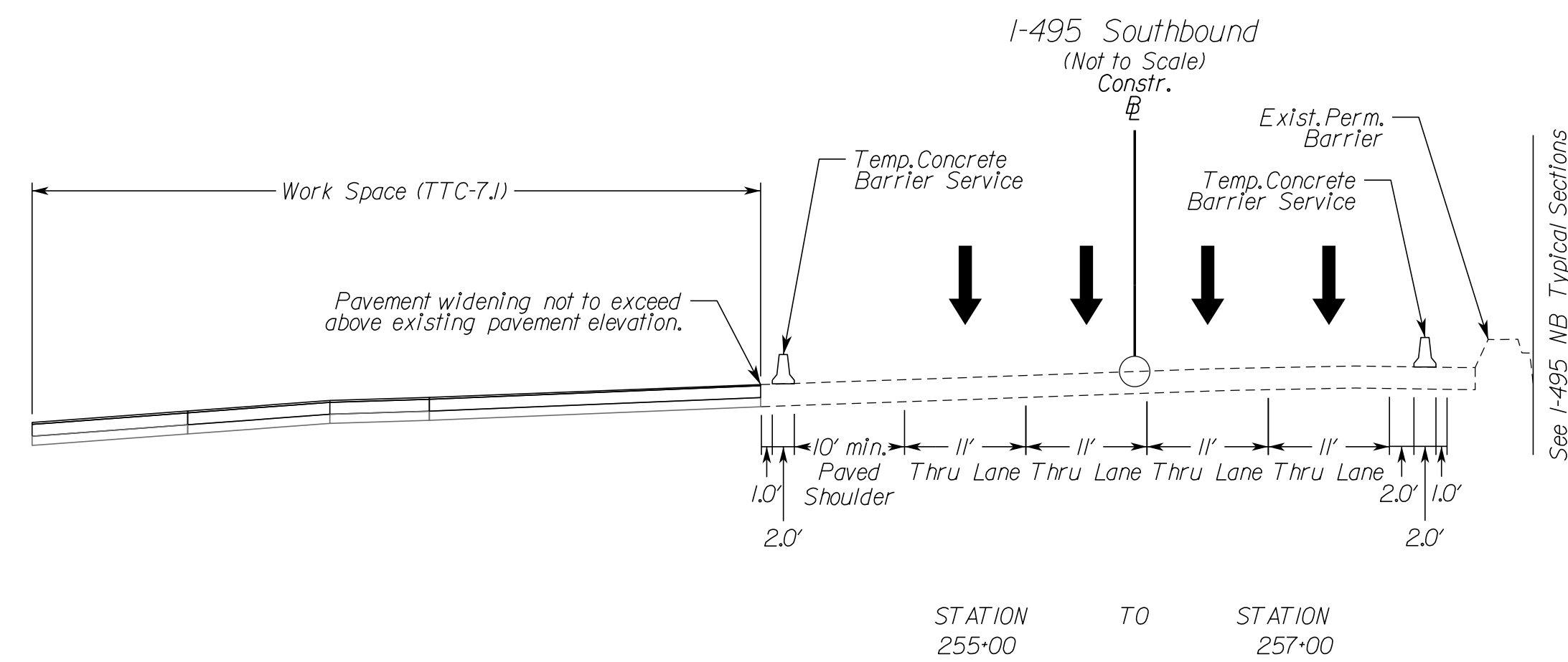
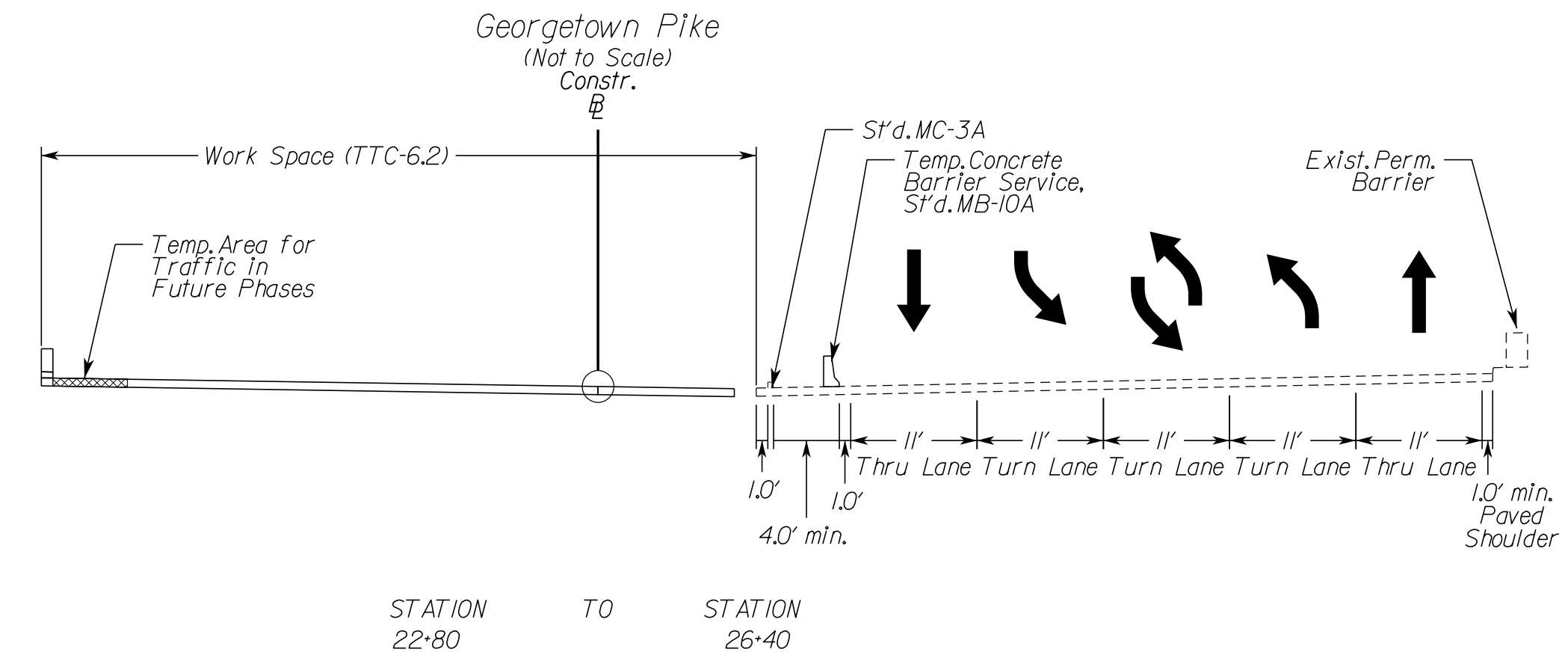
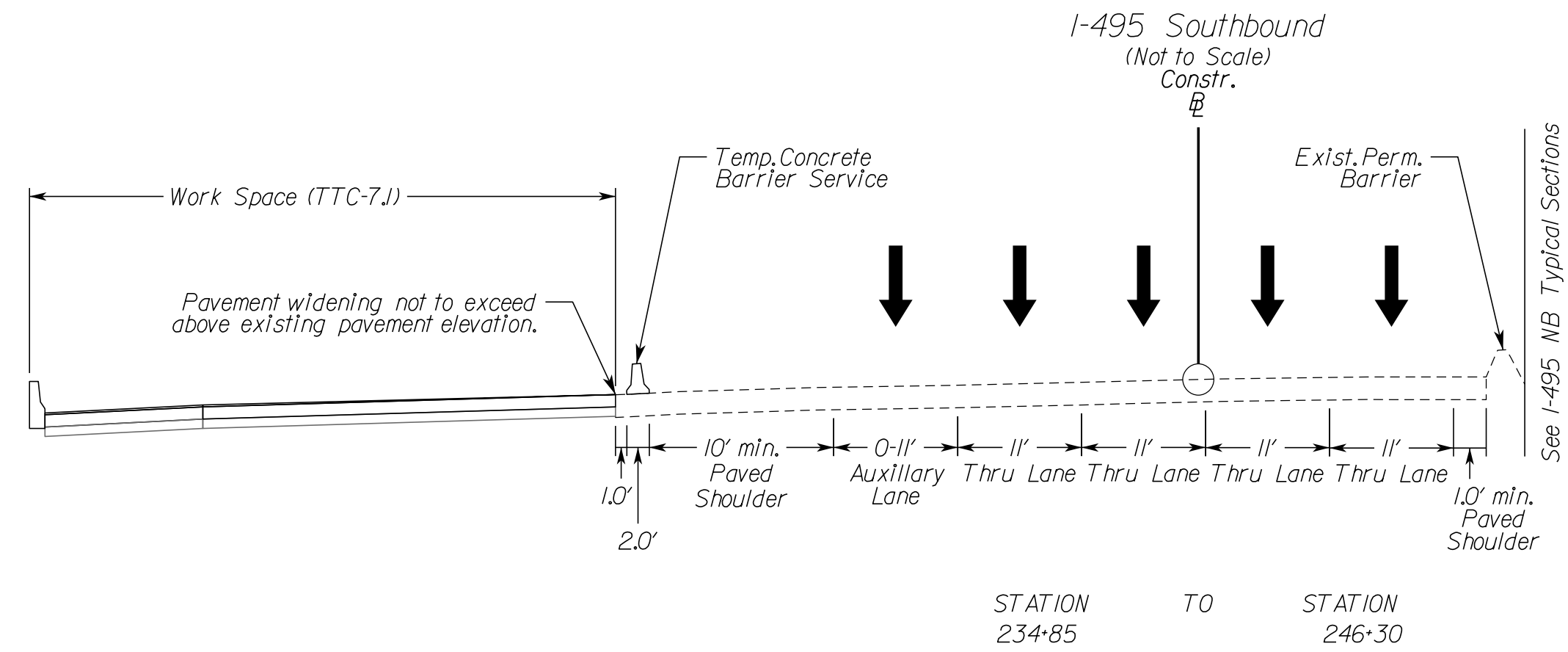
# Temporary Traffic Control Typical Sections Phase IA



REVISED	STATE	ROUTE	STATE	VDOT PROJECT NO.	SHEET NO.
	VA	495		0495-029-419 C501 RW201	1/1(A)2 AREA 3

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

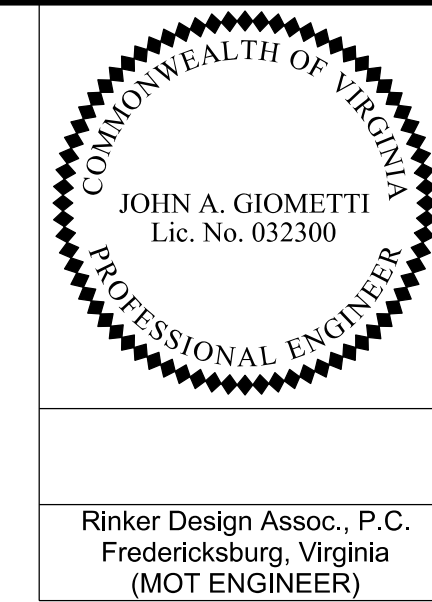
10/16/2022

VDOT PROJECT NO. 0495-029-419	SHEET NO. 1/1(A)2 AREA 3
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APPROVED FOR CONSTRUCTION



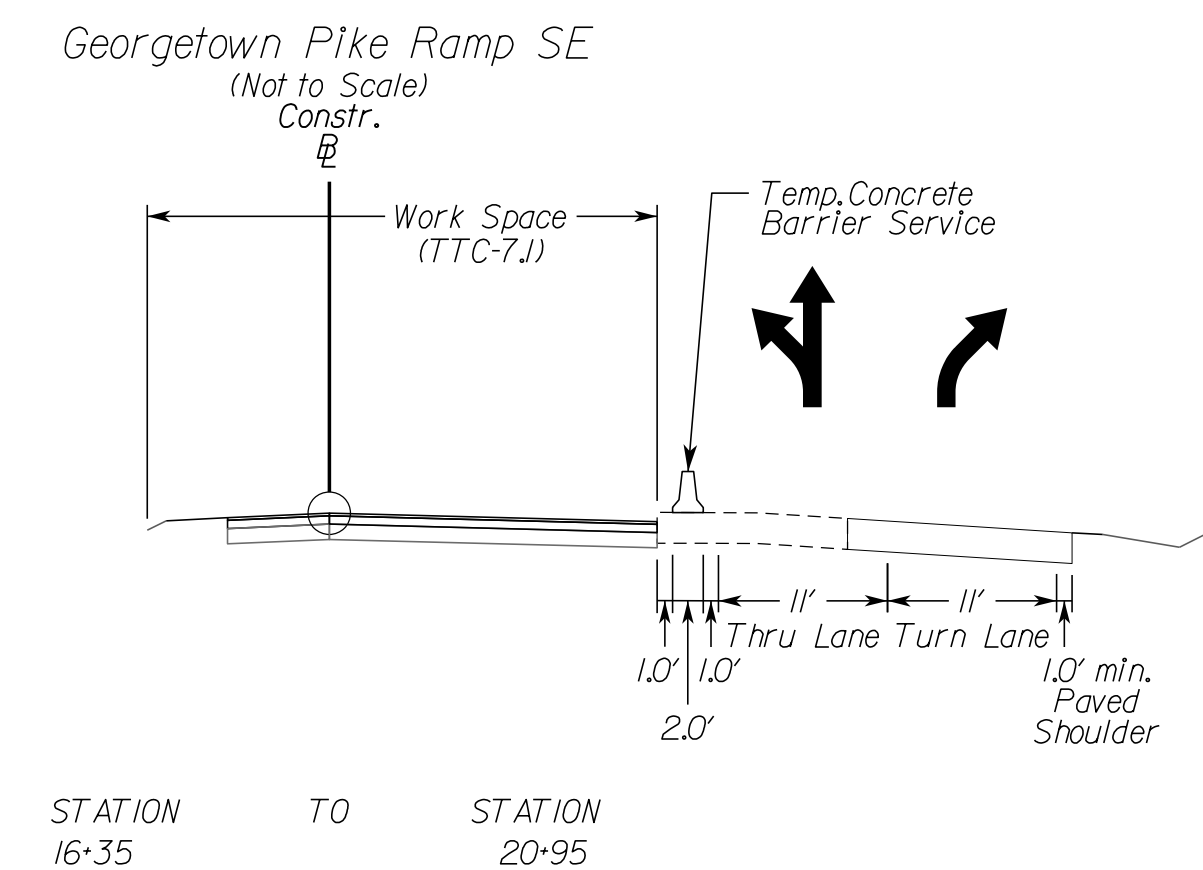
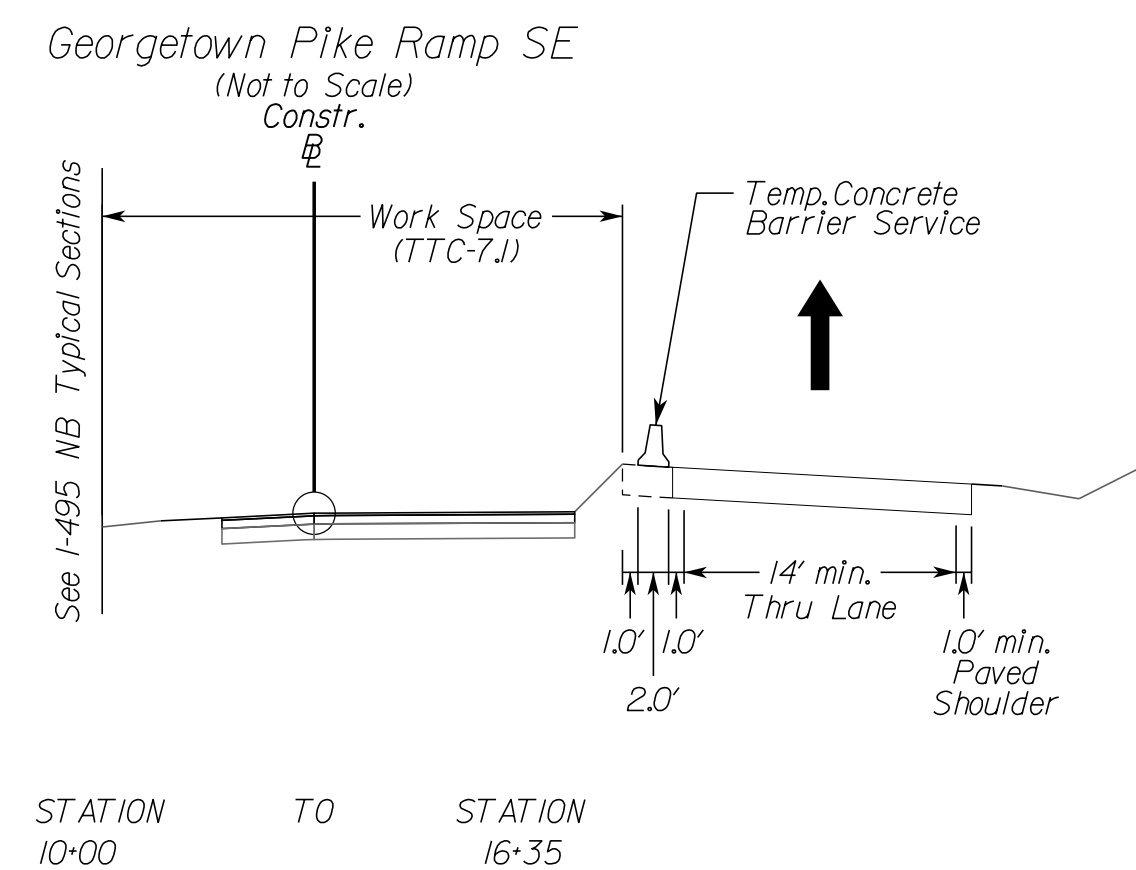
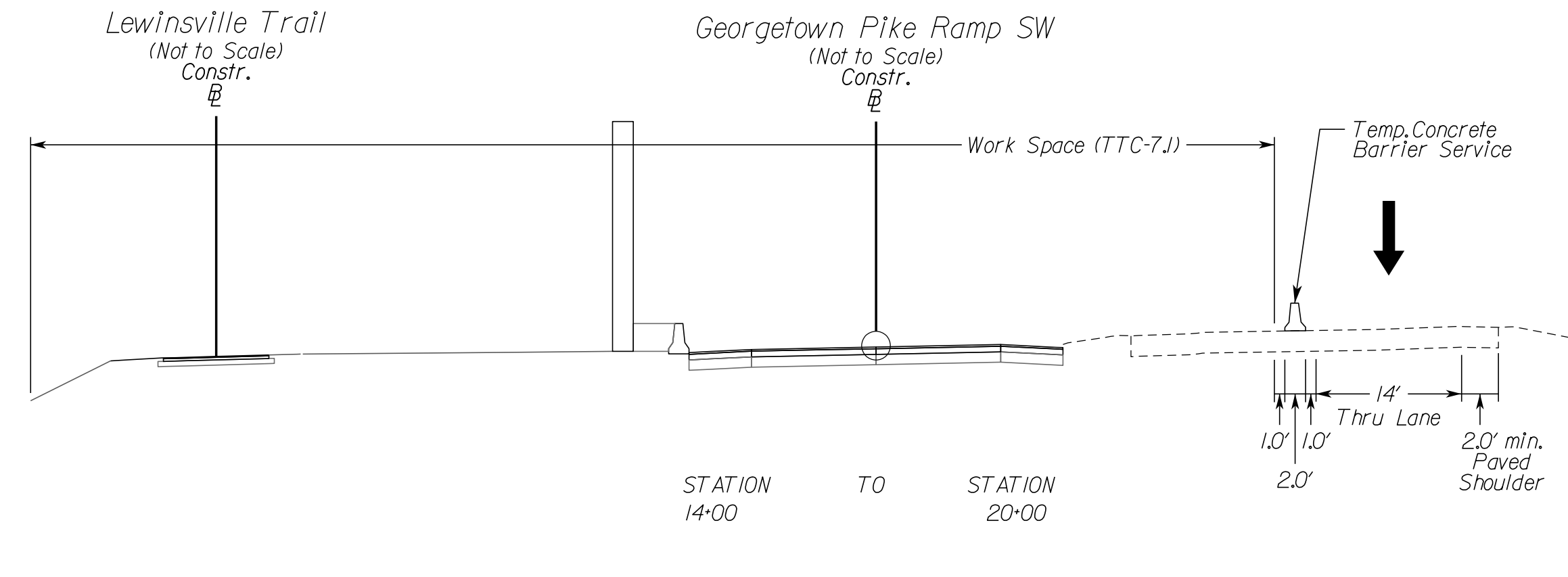
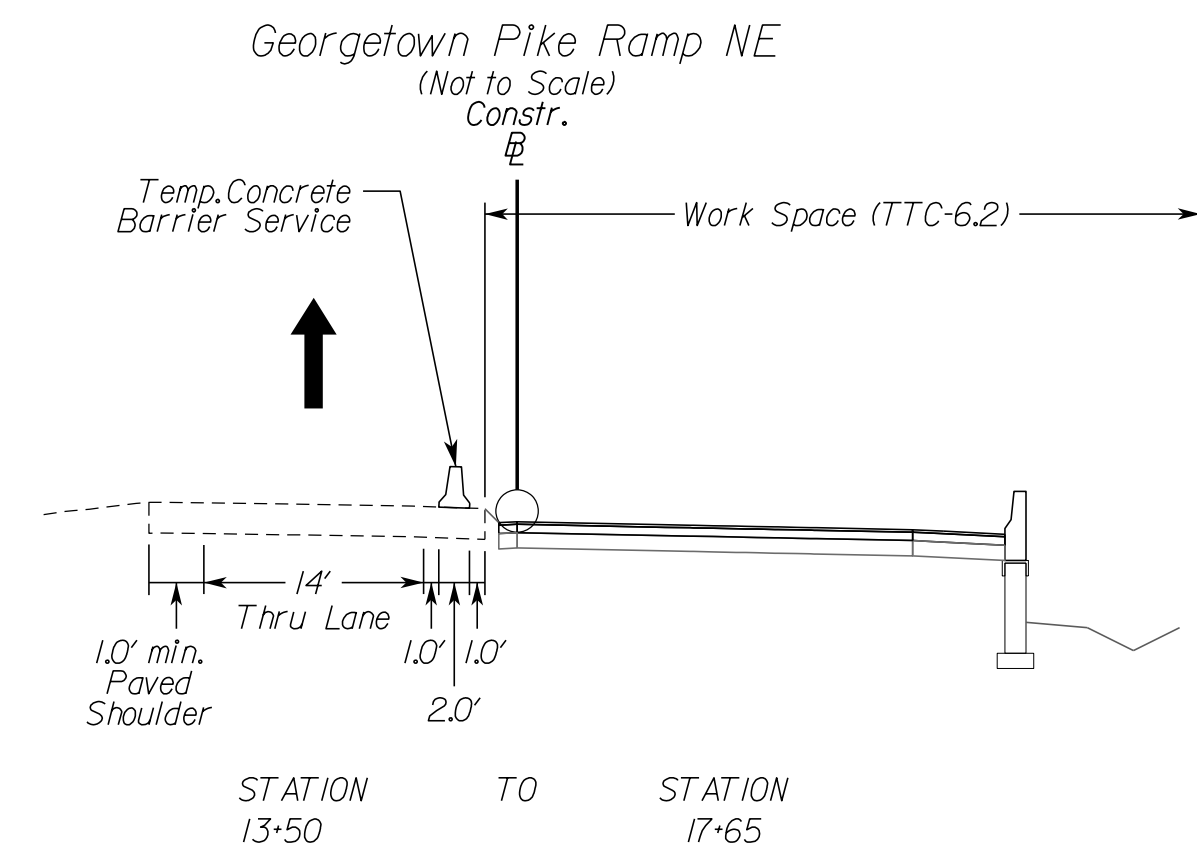
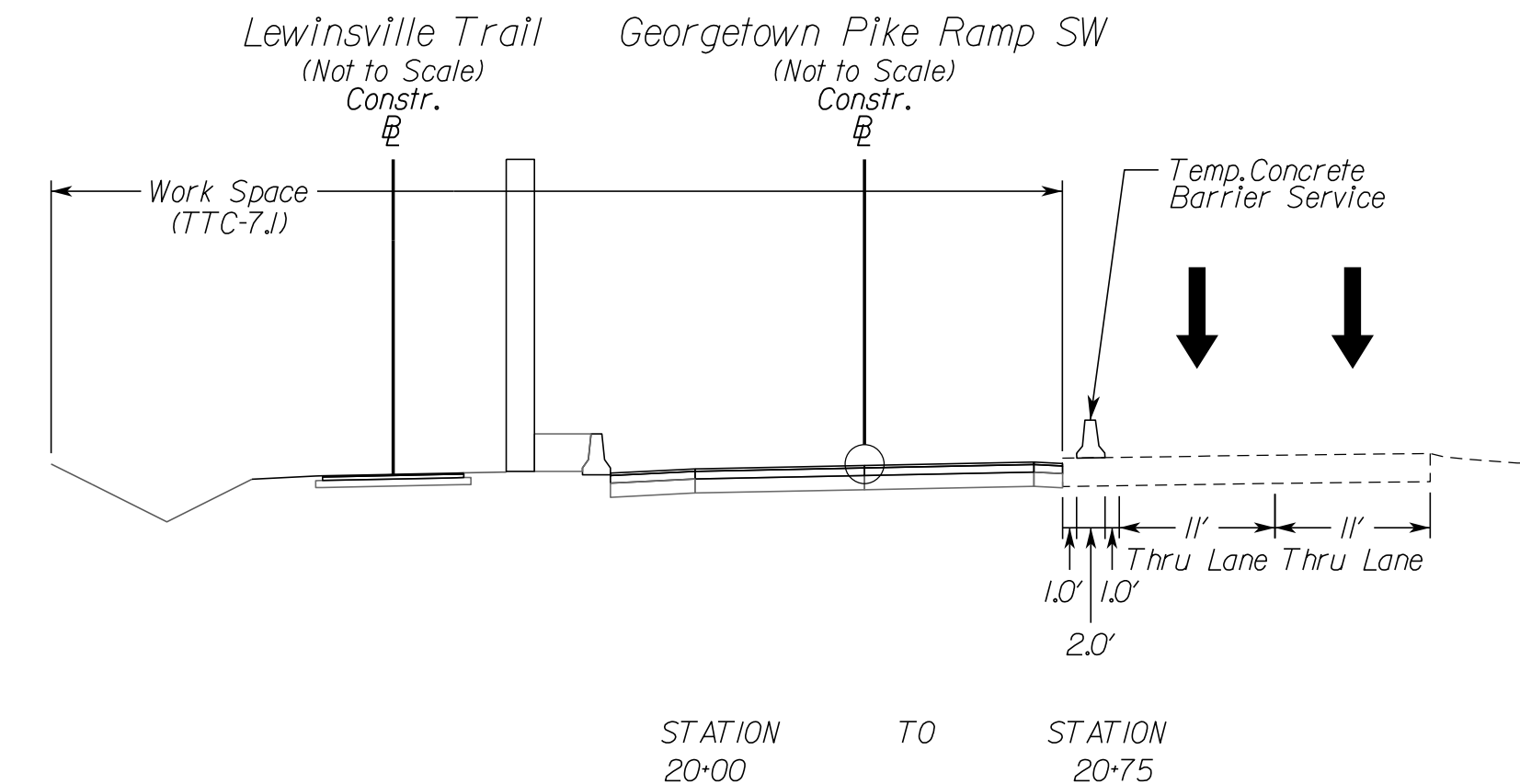
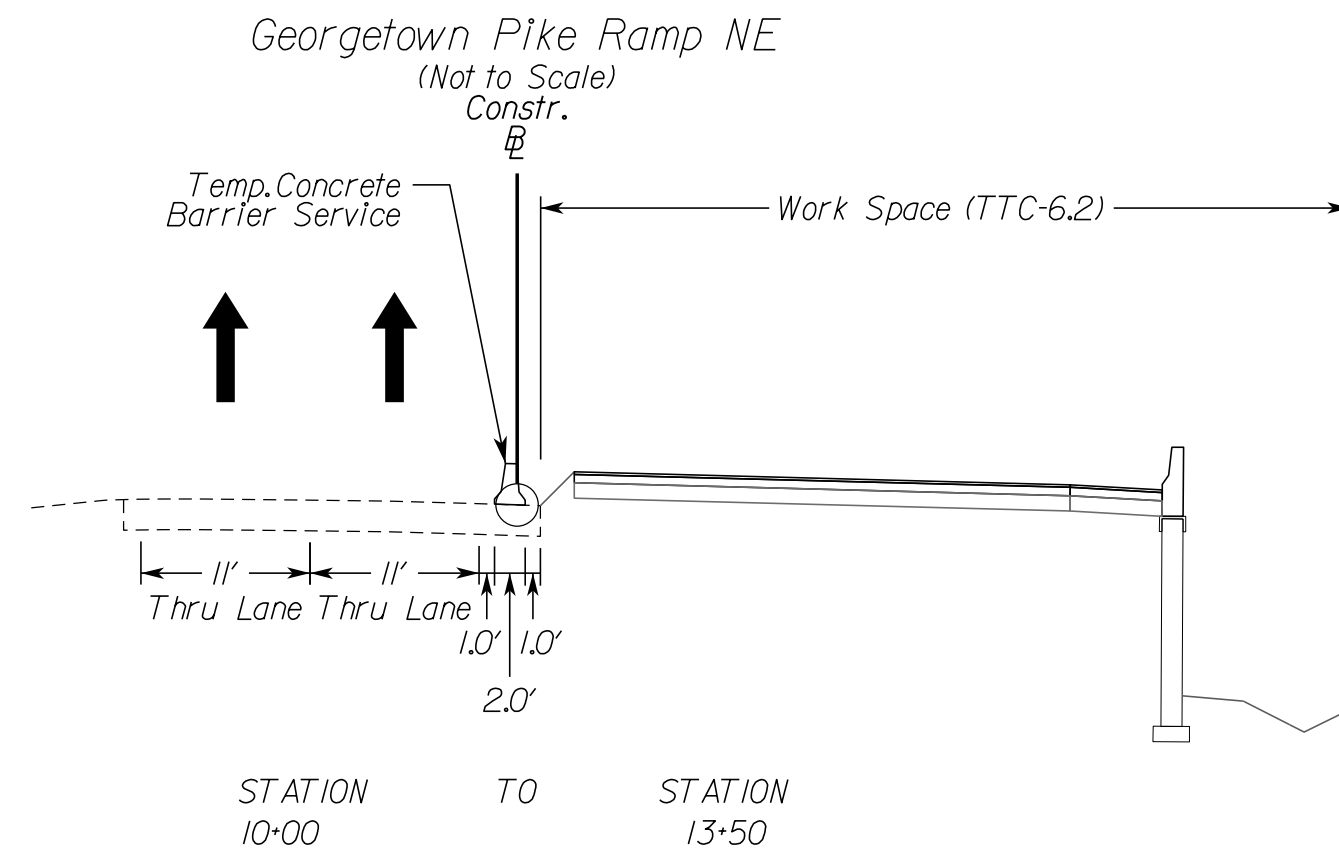
PROJECT MANAGER VDOT - Rupal Shah, P.E. (703) 259-2362  
 SURVEYED BY, DATE RDA - Nicholas Kougaull, LS (703) 334-0837, 1/2019  
 DESIGN BY RDA - Darrell Fischer, P.E. (703) 334-0823  
 SUBSURFACE UTILITY BY, DATE Accumark - Michael Taylor, LS (703) 635-3060, 12/2021



REVISED	STATE	ROUTE	STATE	VDOT PROJECT NO.	SHEET NO.
	VA.	495		0495-029-419 C501 RW201	1/11A)3 AREA 3

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



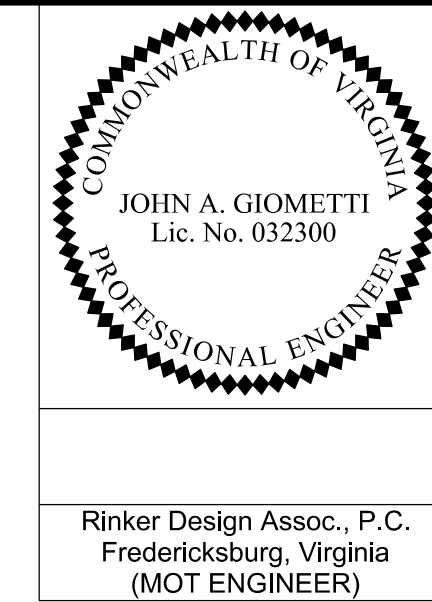
NOVA DISTRICT

10/16/2022

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  
Dewberry - Ron Jakomlitch, PE, (703) 849-0651  
SUBSURFACE UTILITY BY, DATE Accumark - Michael Taylor, LS, (703) 635-3060, 12/2021

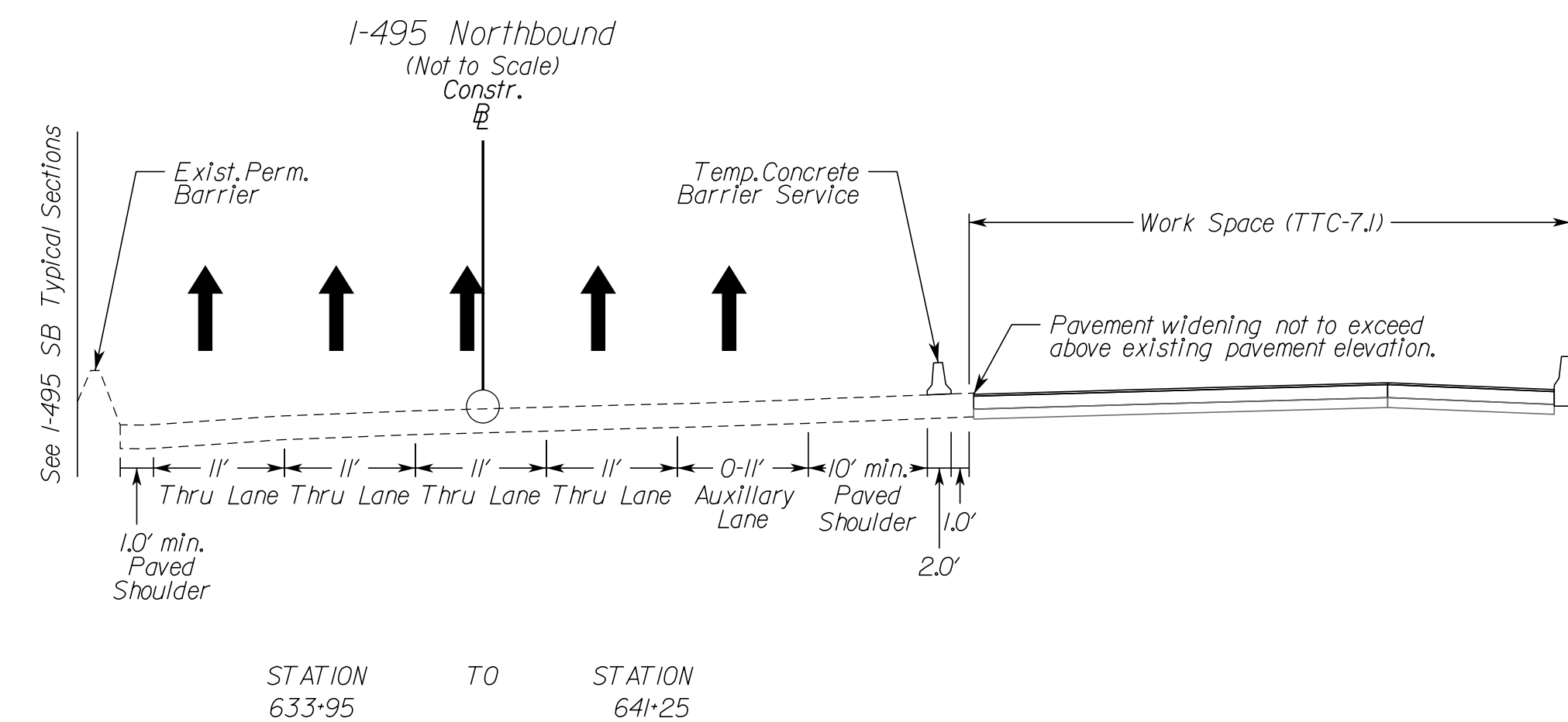
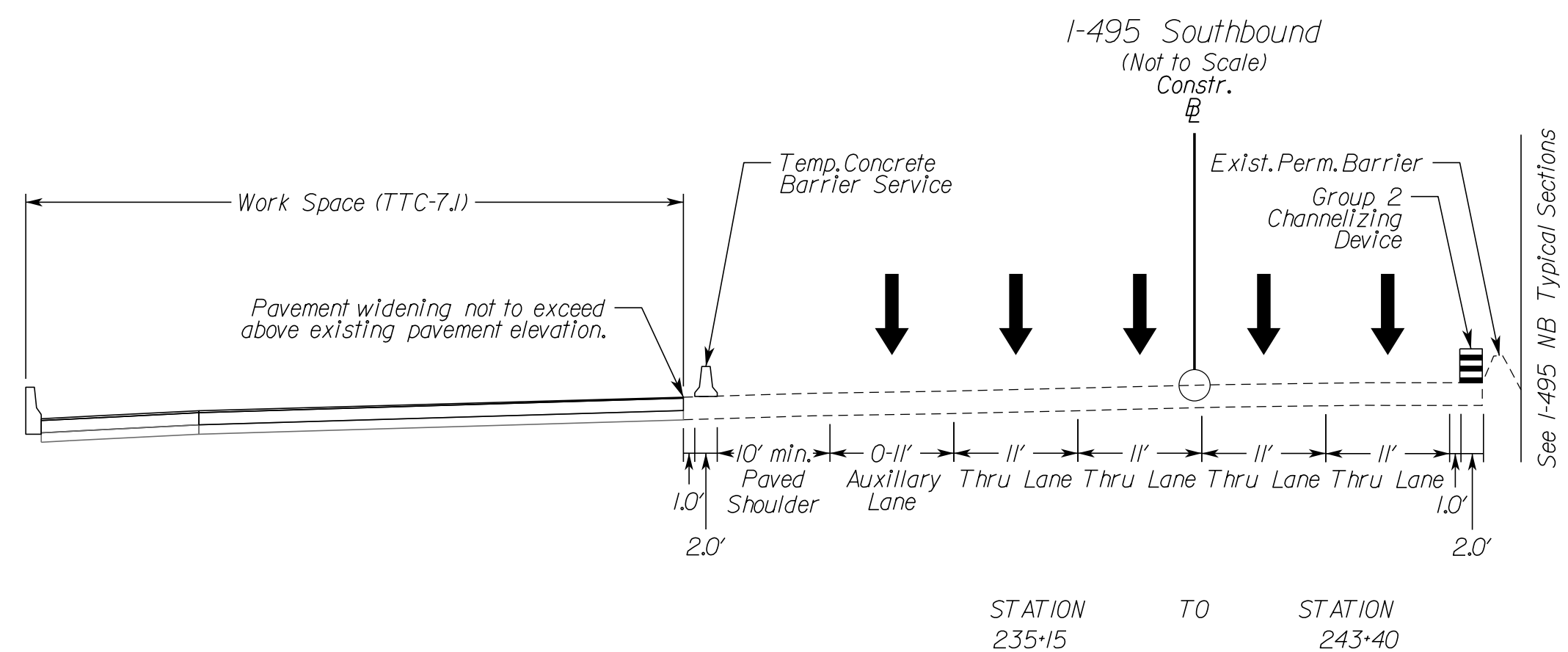
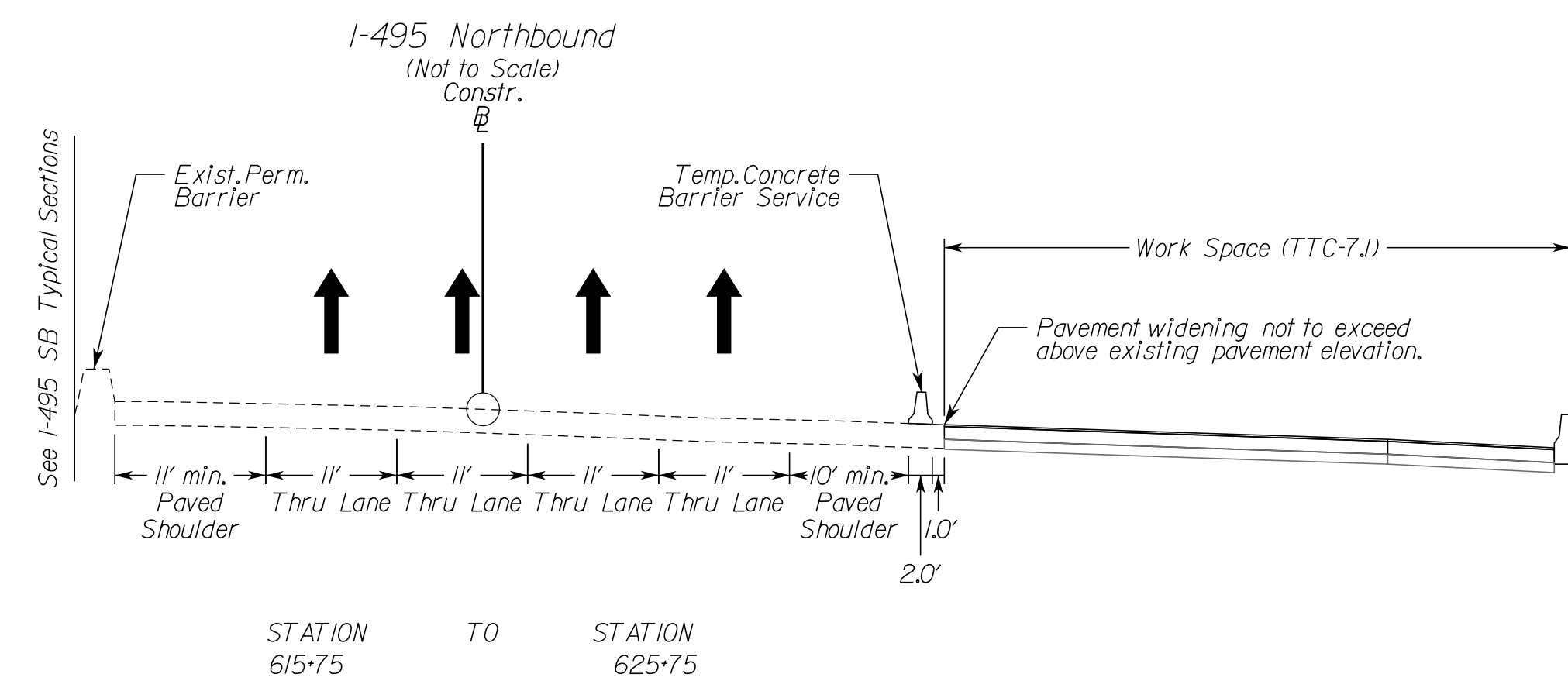
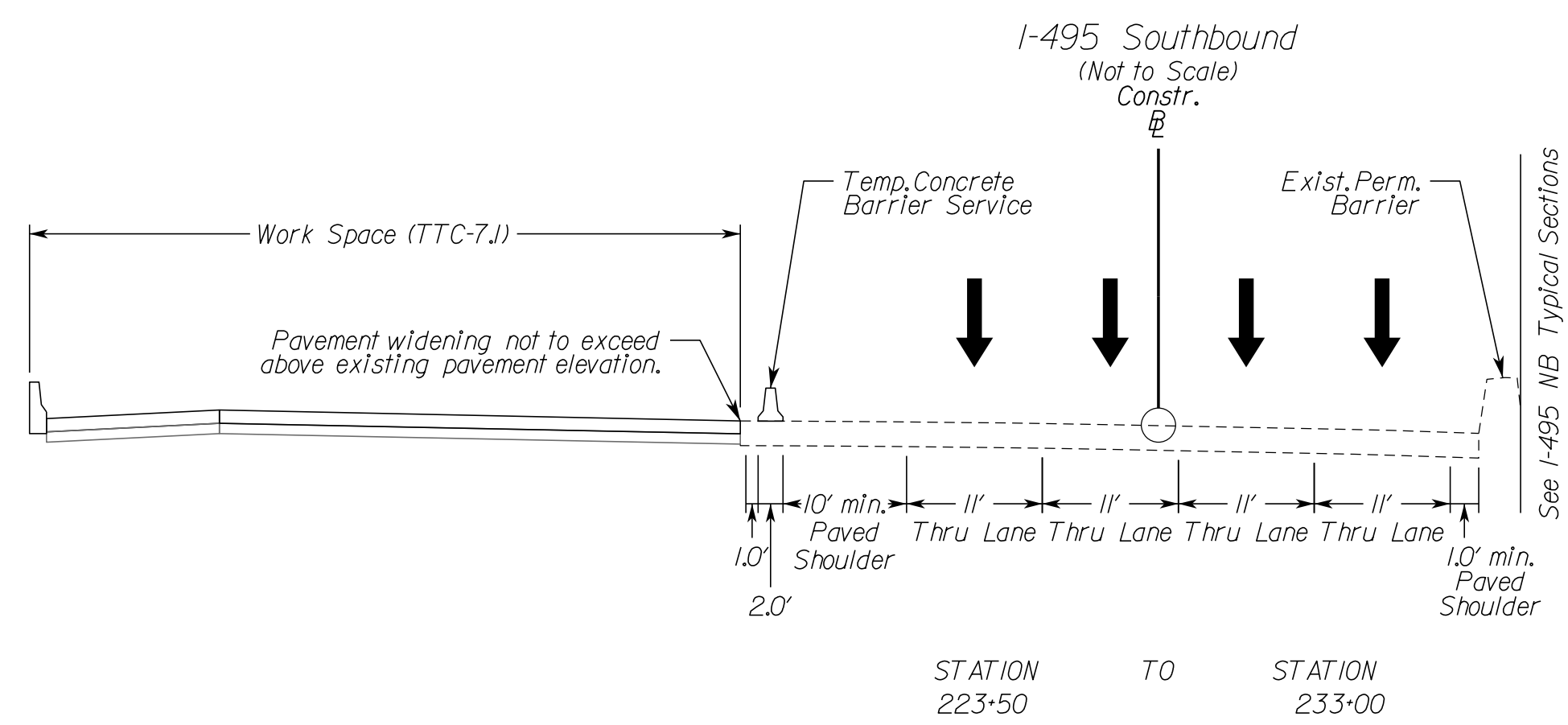
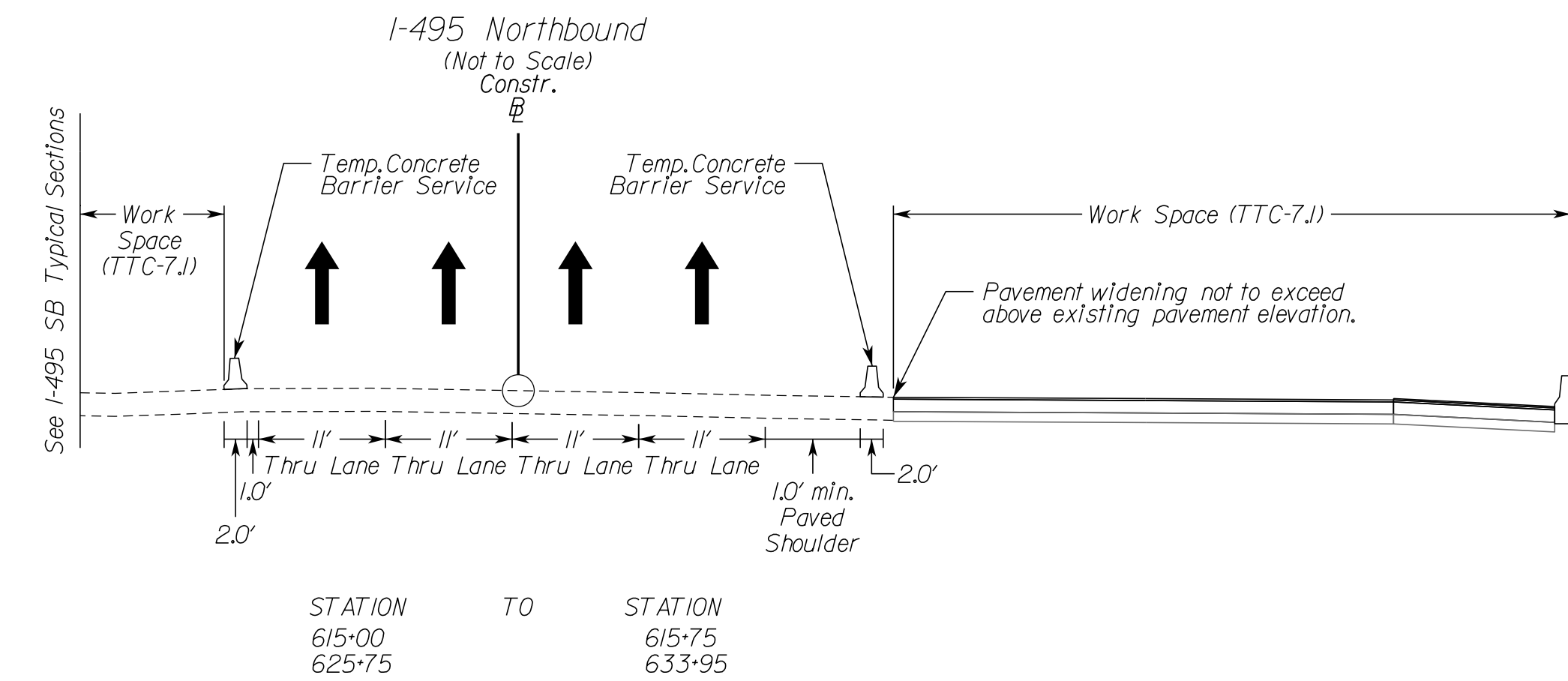
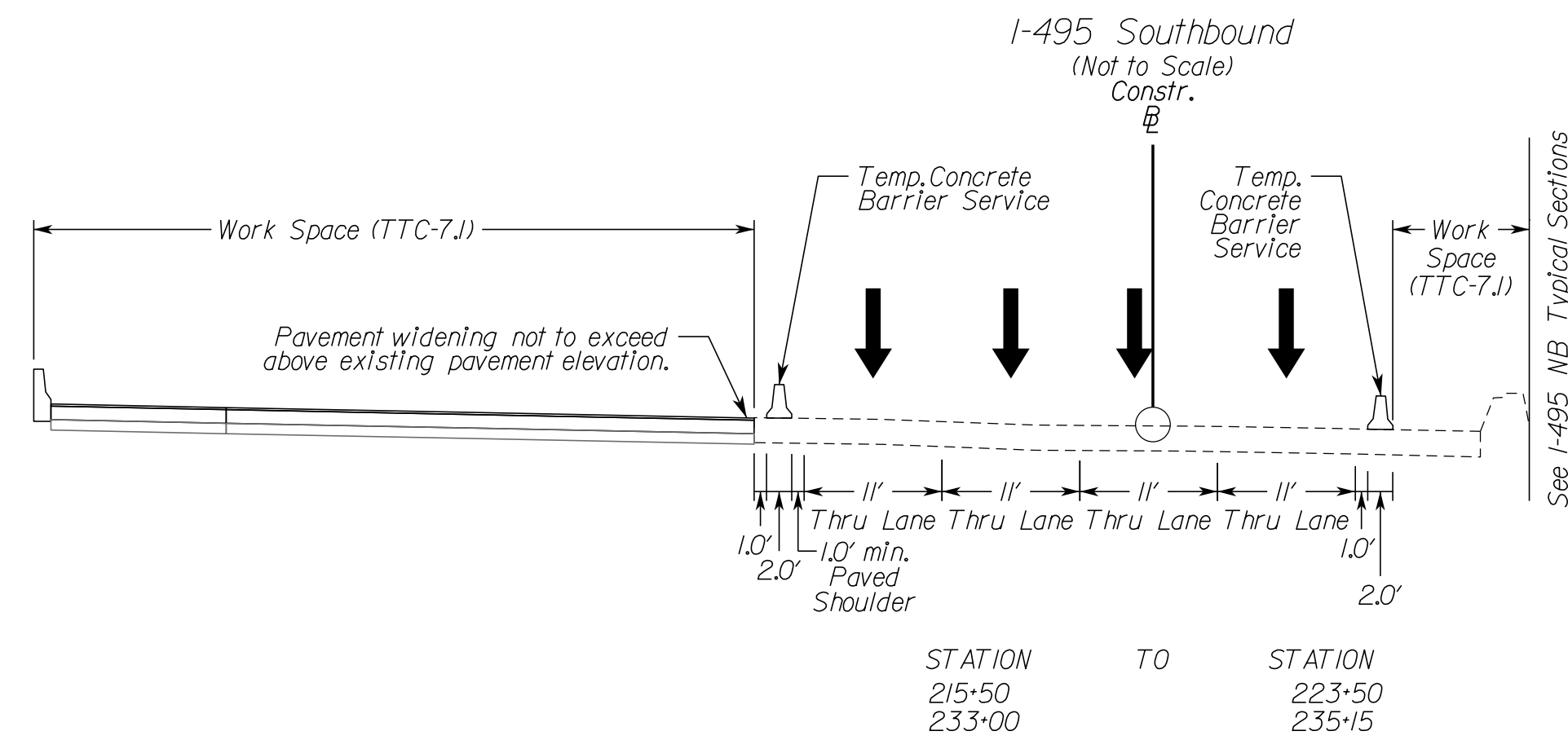
# Temporary Traffic Control Typical Sections Phase 1A2



REVISED	STATE	ROUTE	STATE	VDOT PROJECT NO.	SHEET NO.
	VA	495		0495-029-419 C501 RW201	11(1A)4 AREA 3

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

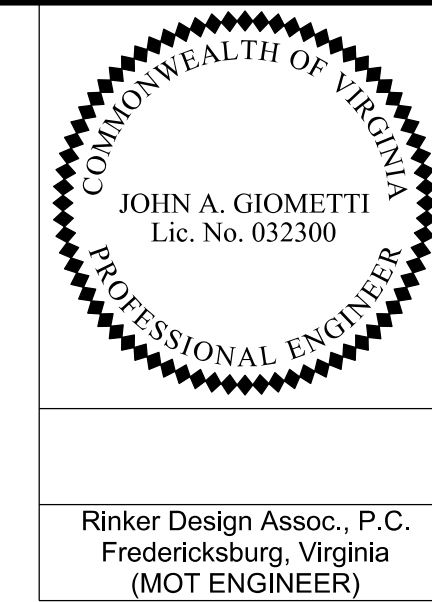
10/16/2022

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

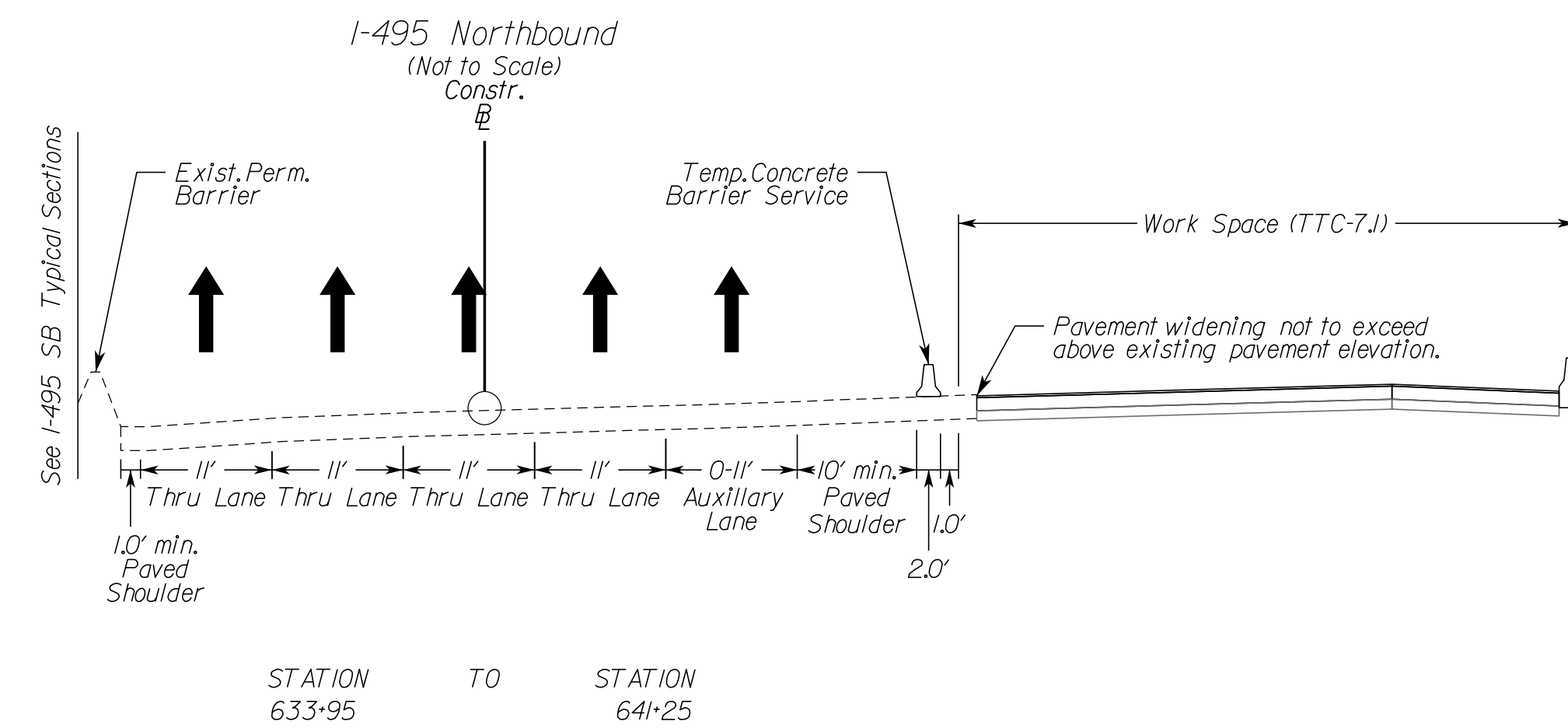
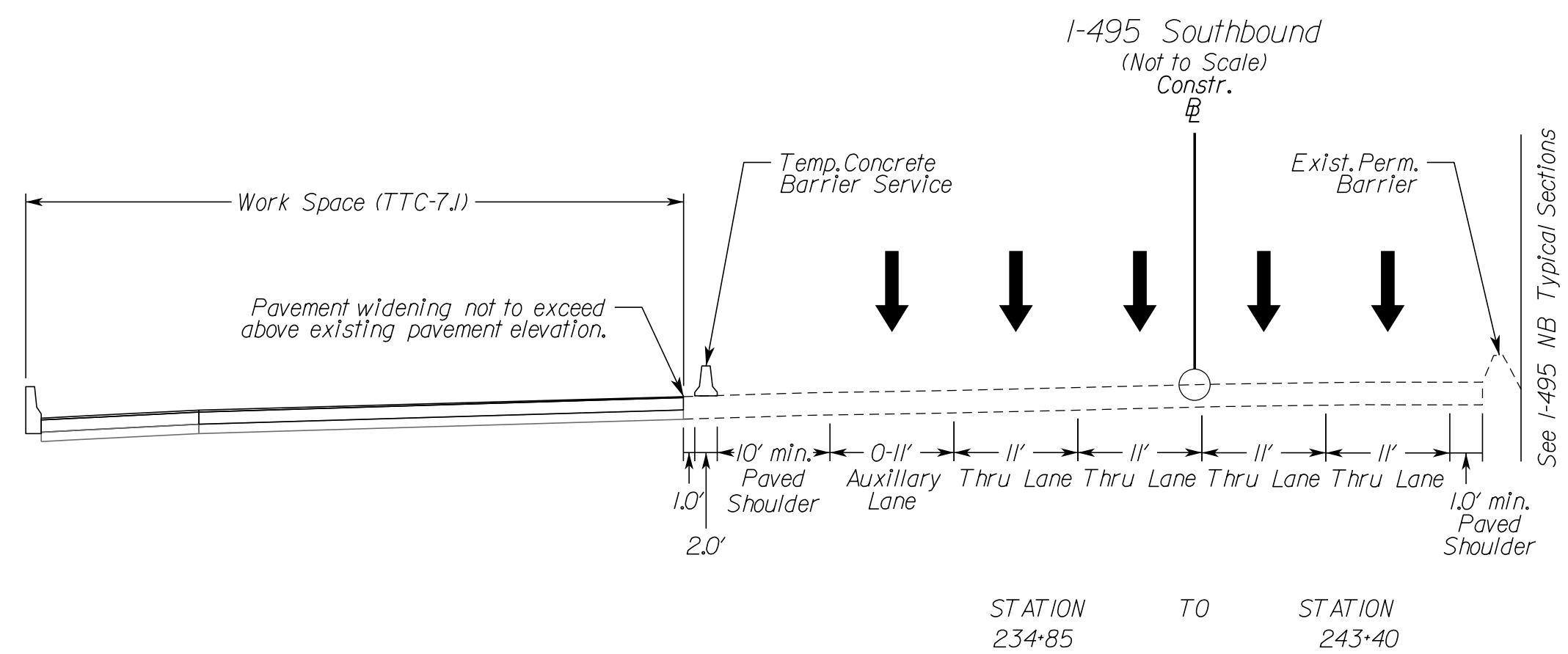
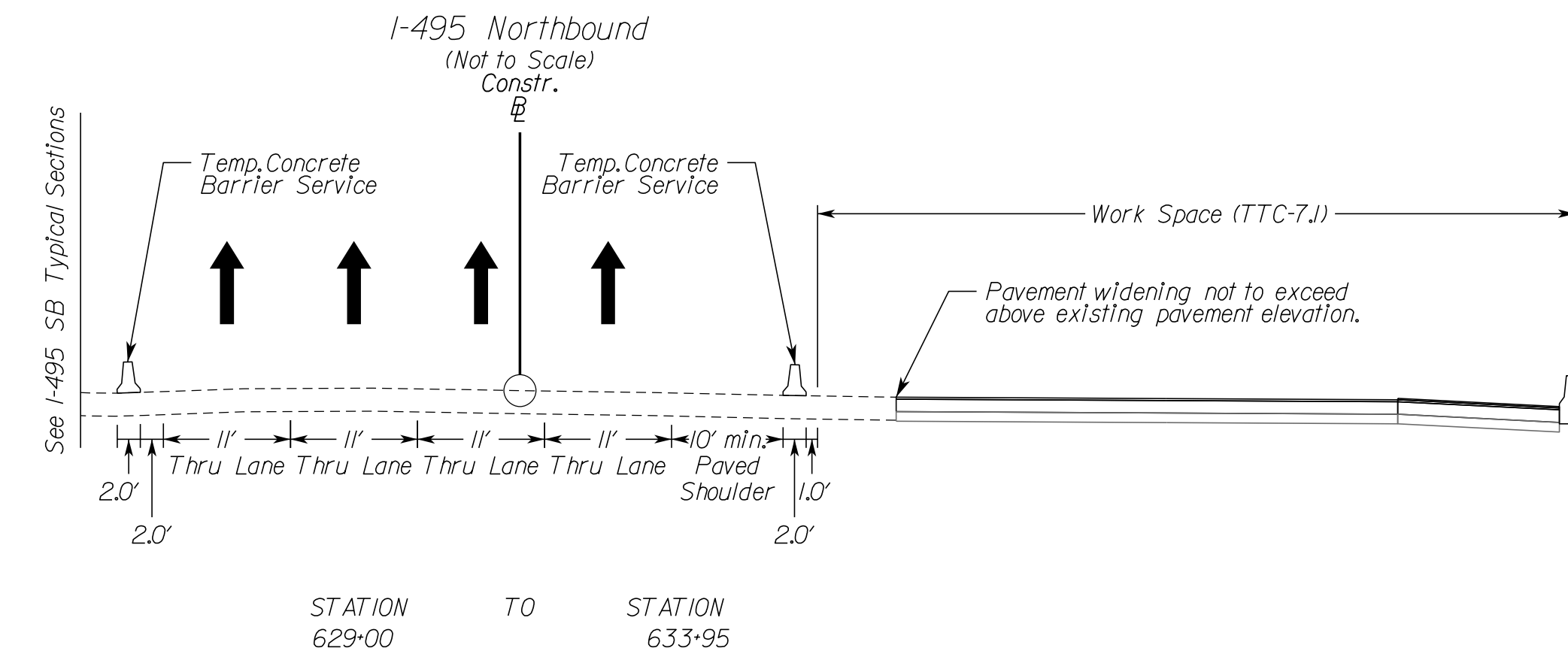
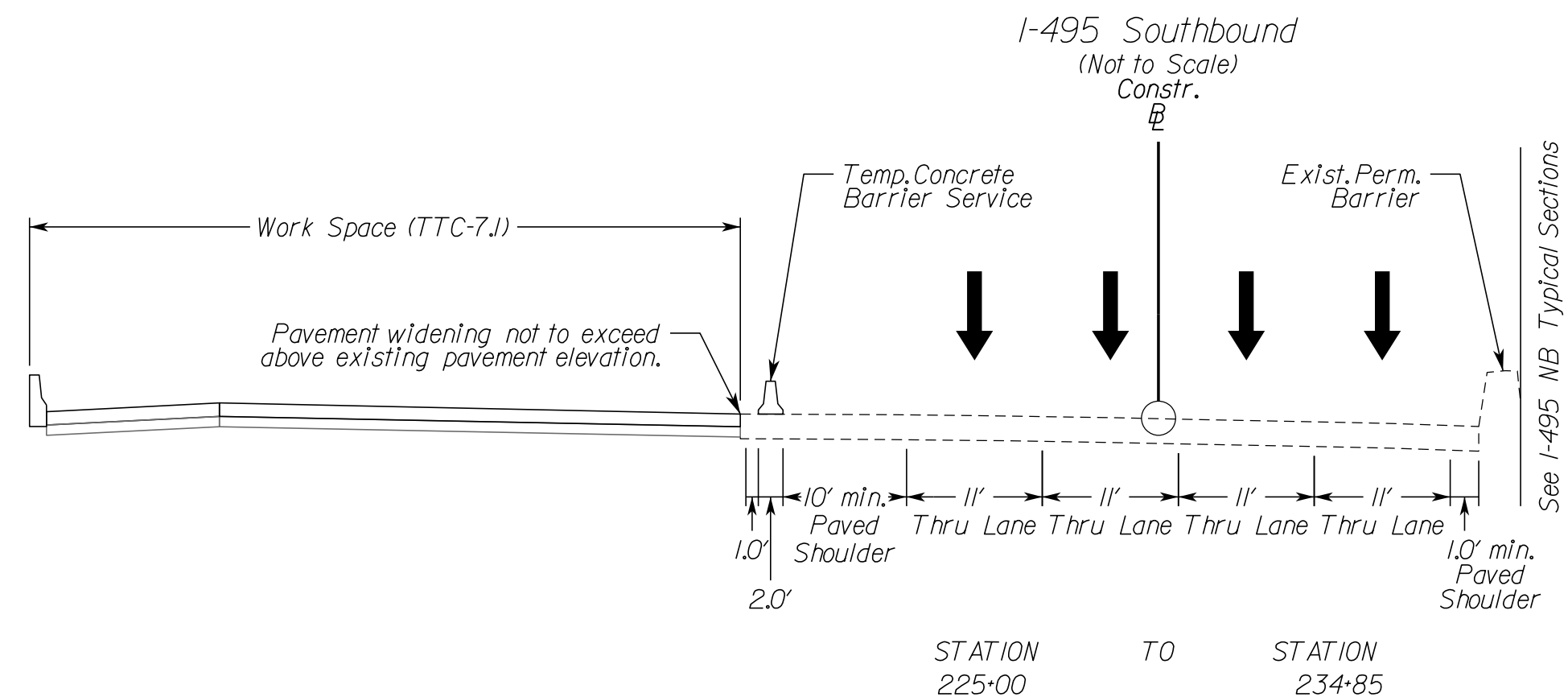
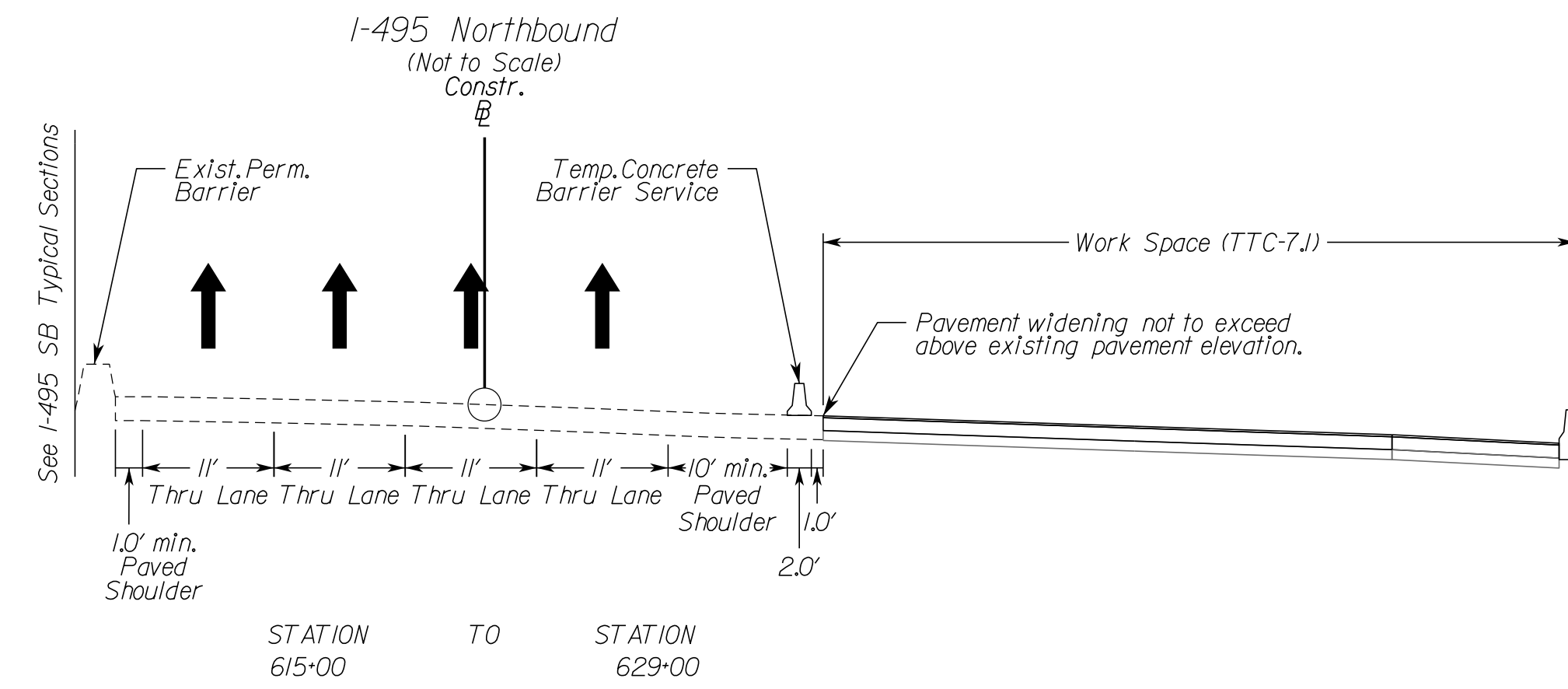
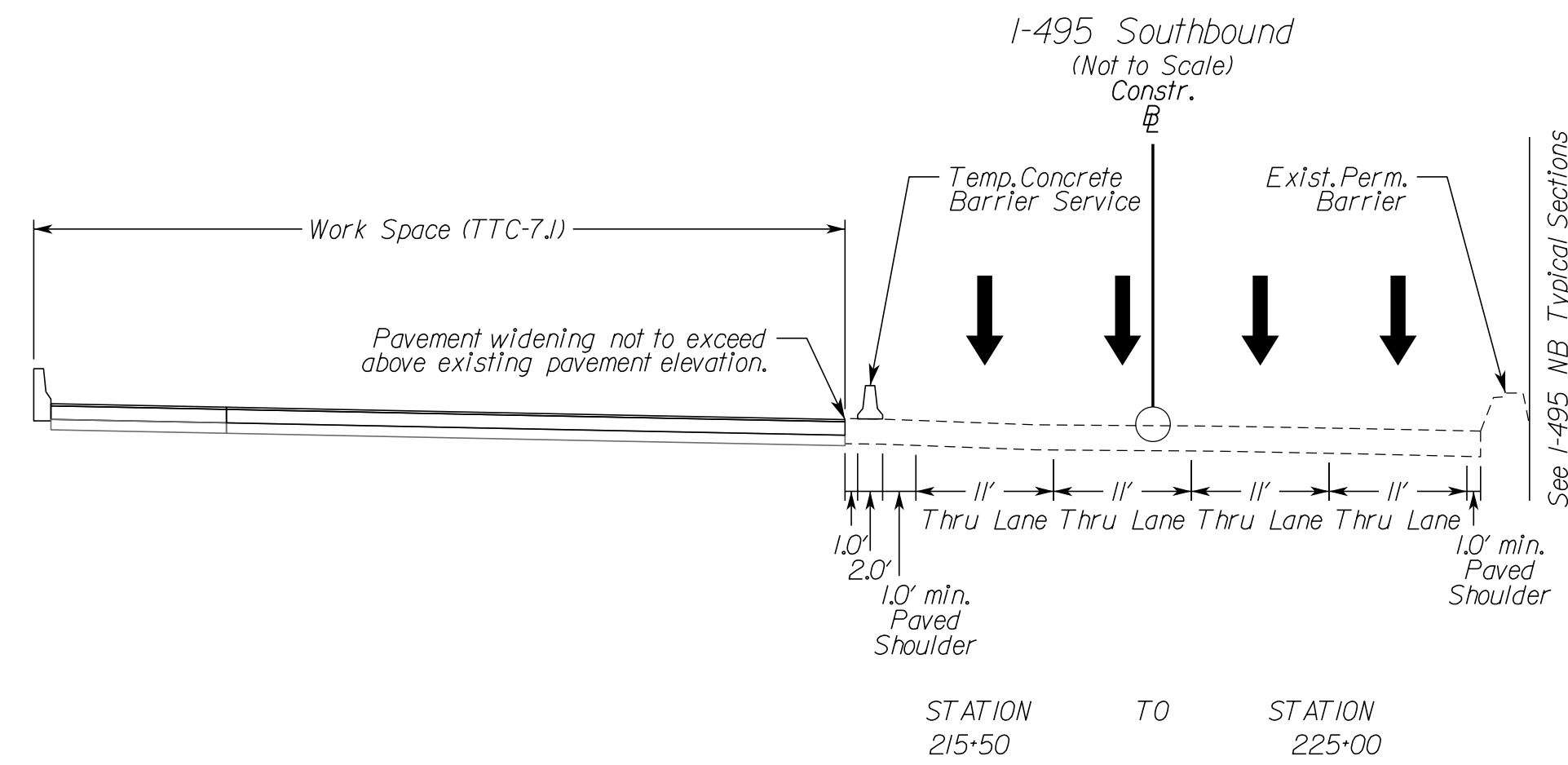
# Temporary Traffic Control Typical Sections Phase 1A3



REVISED	STATE	ROUTE	STATE	VDOT PROJECT NO.	SHEET NO.
	VA	495		0495-029-419 C501 RW201	11(1A)5 AREA 3

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)

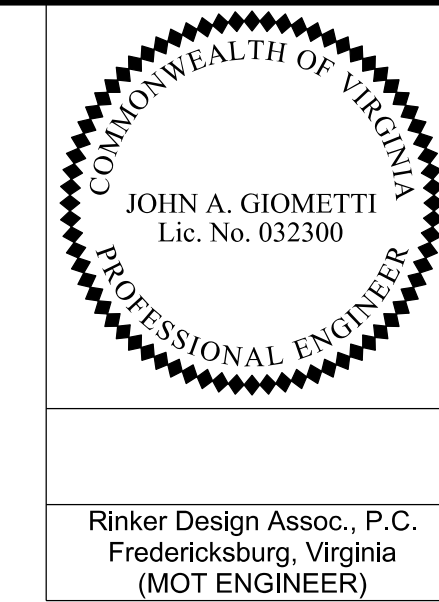


NOVA DISTRICT

10/6/2022

APPROVED FOR CONSTRUCTION

PROJECT MANAGER VDOT - Ritala, 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  
 SUBSURFACE UTILITY BY, DATE Accurmark - 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	IJ(I)IB1 AREA 3

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 IB

## 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, temporary pavement, and outside widening  
 - Georgetown Pike temporary pavement and widening  
 - Georgetown Pike Ramp SE  
 - Georgetown Pike Ramp SW  
 - Georgetown Pike Ramp NE  
 - Georgetown Pike temporary Ramp NW  
 - George Washington Memorial Parkway Ramp G21

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 21, 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, 29.2, 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.

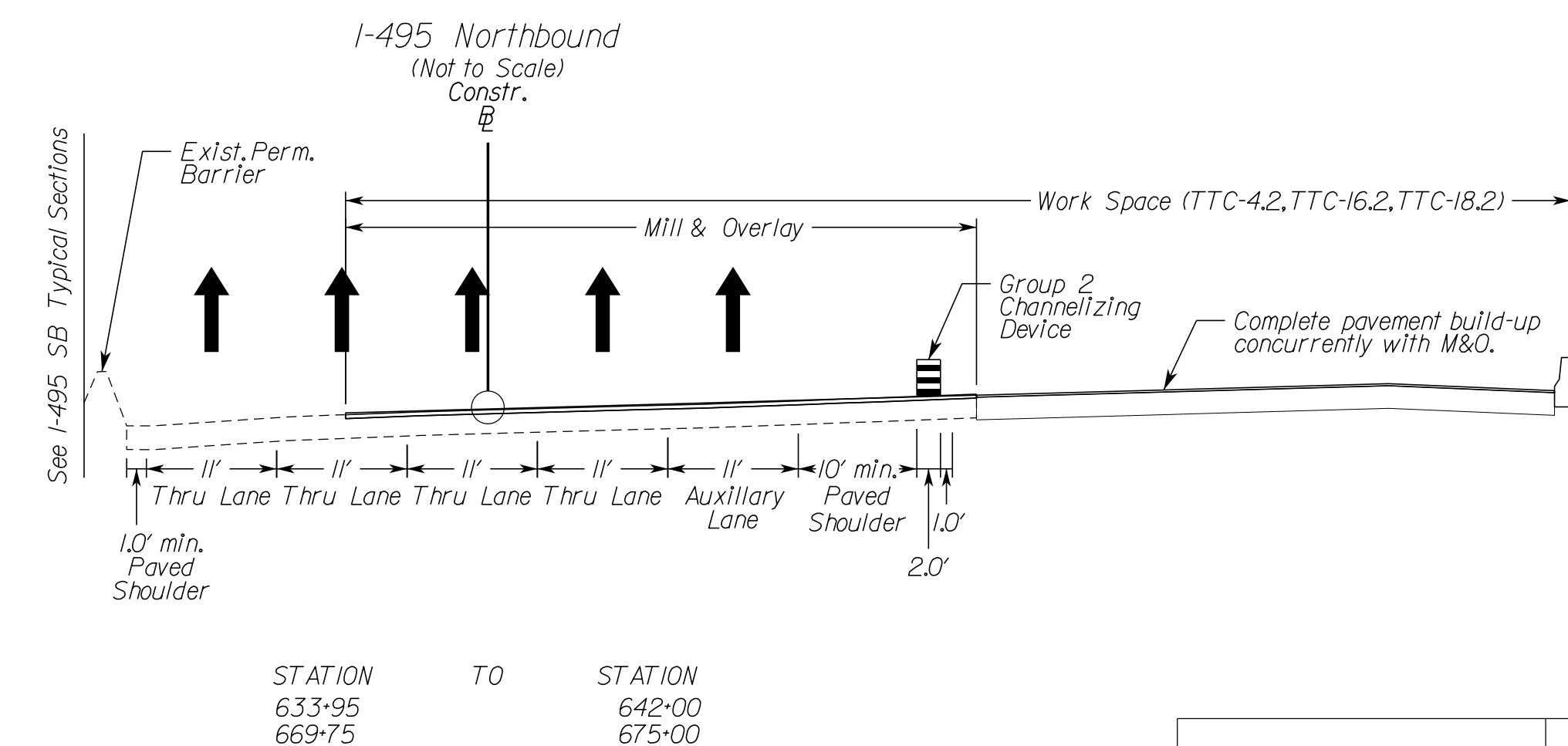
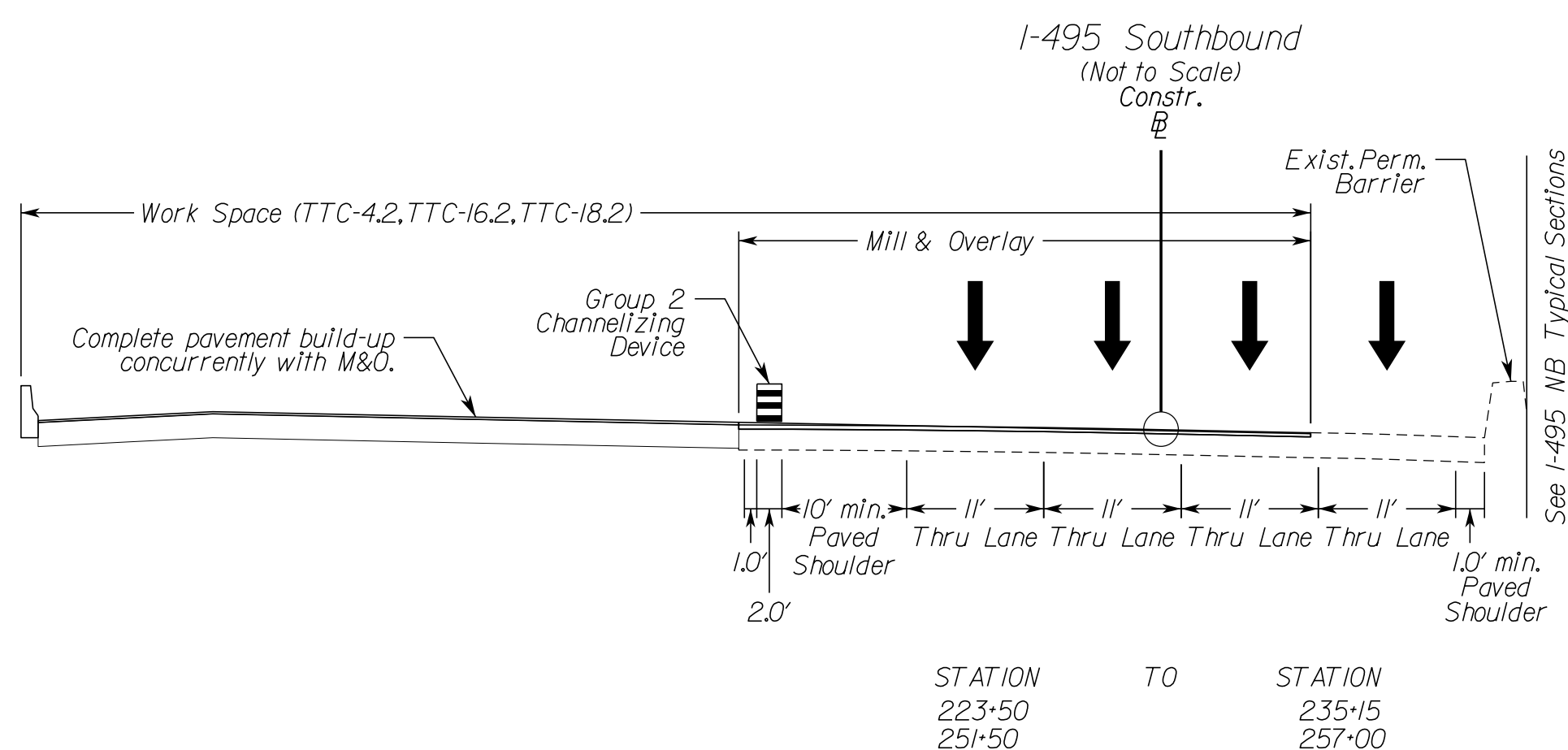
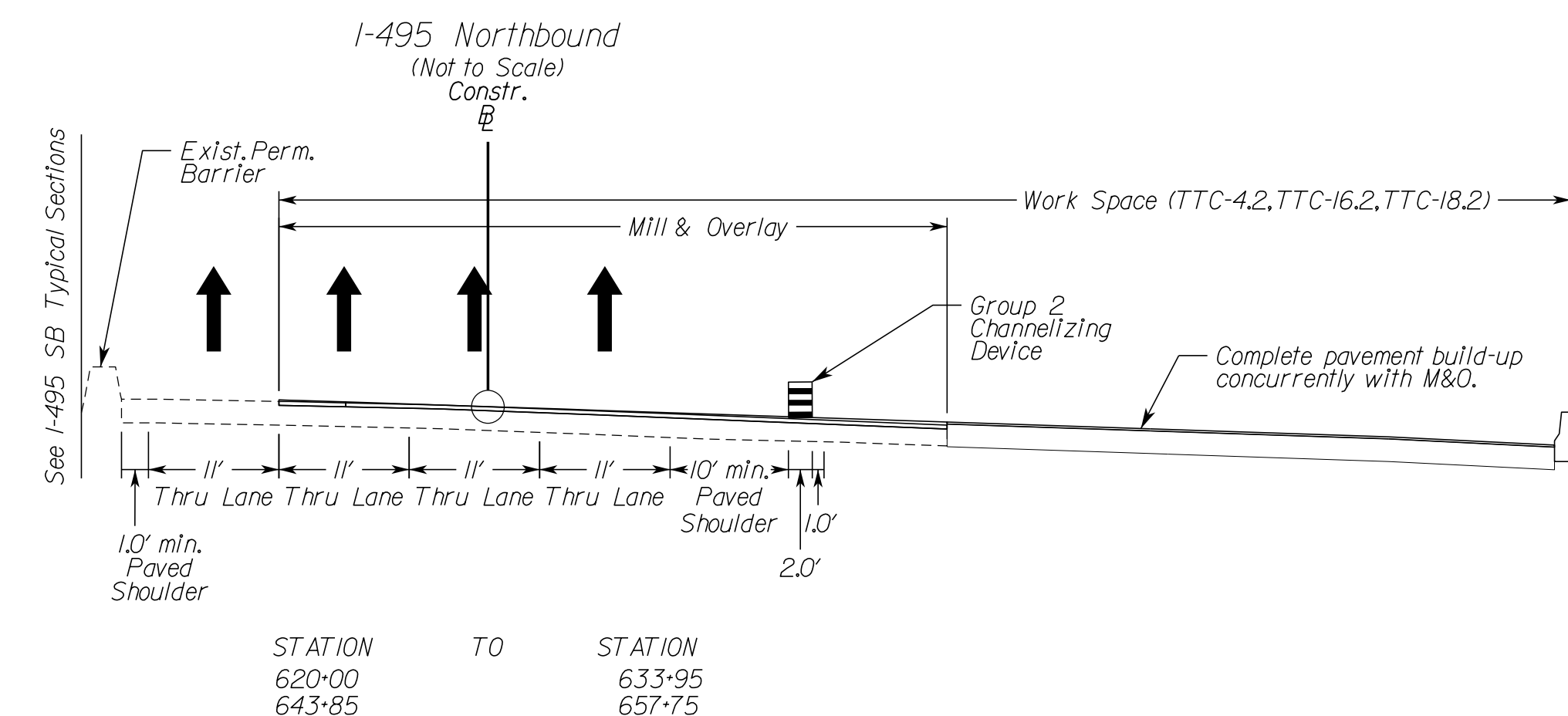
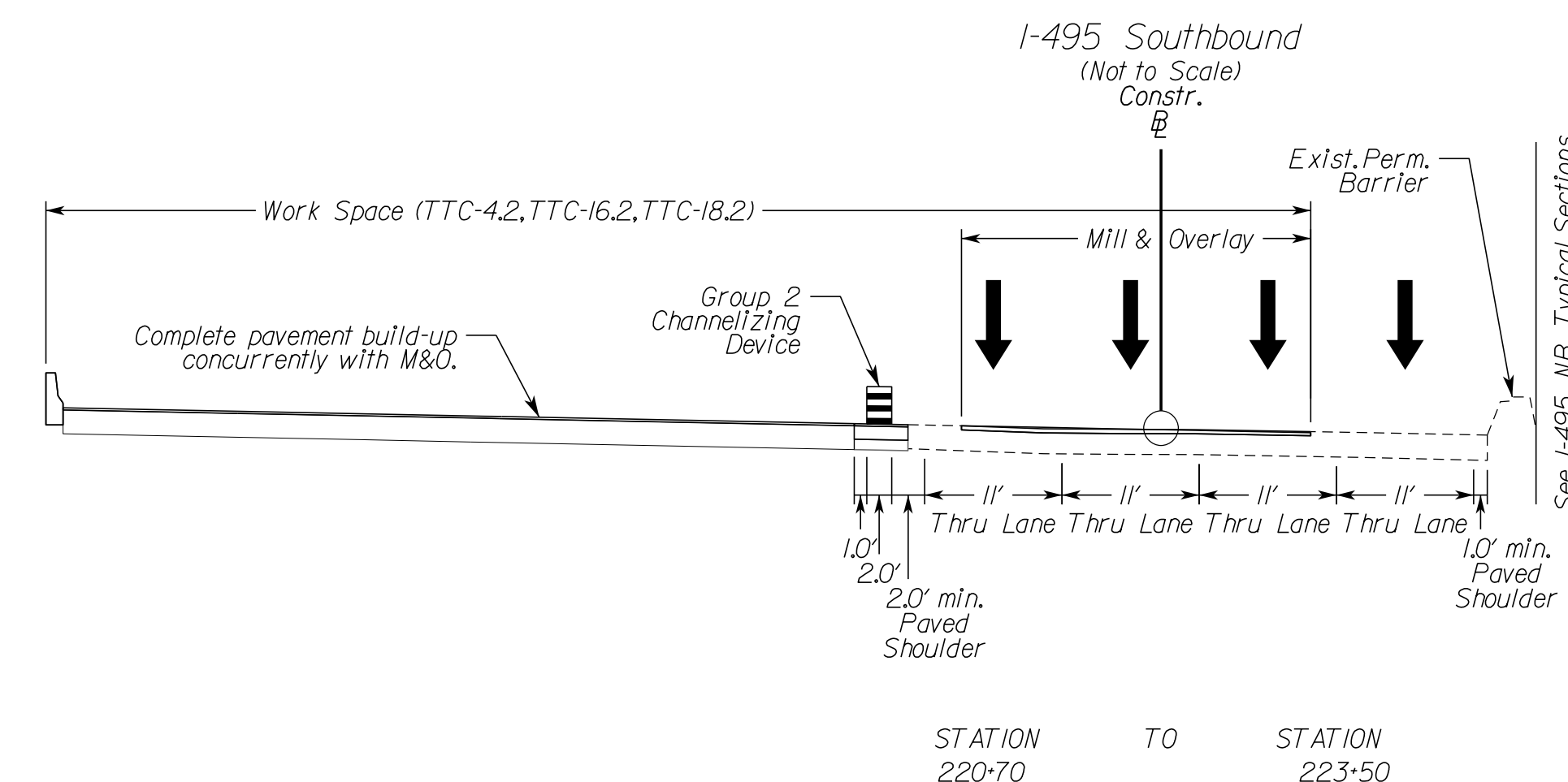
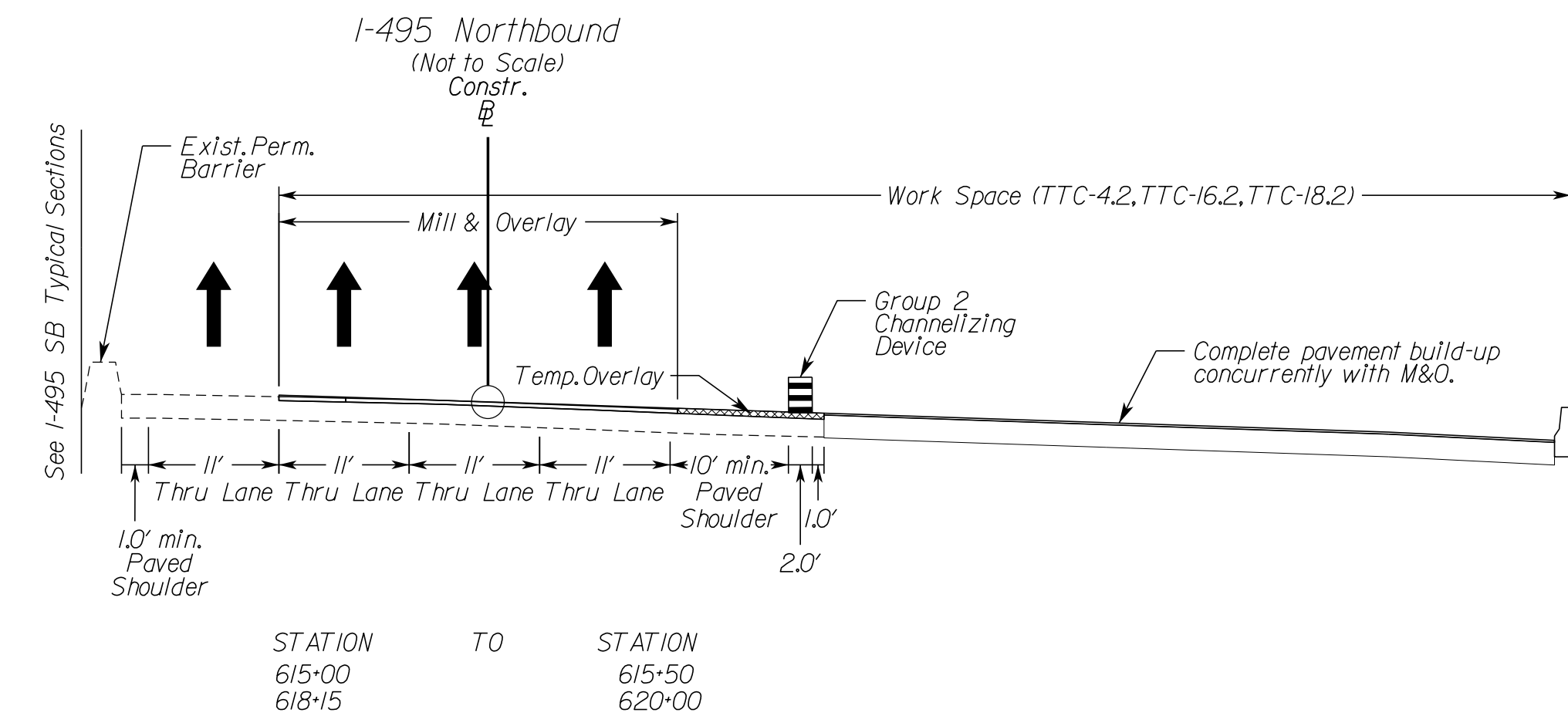
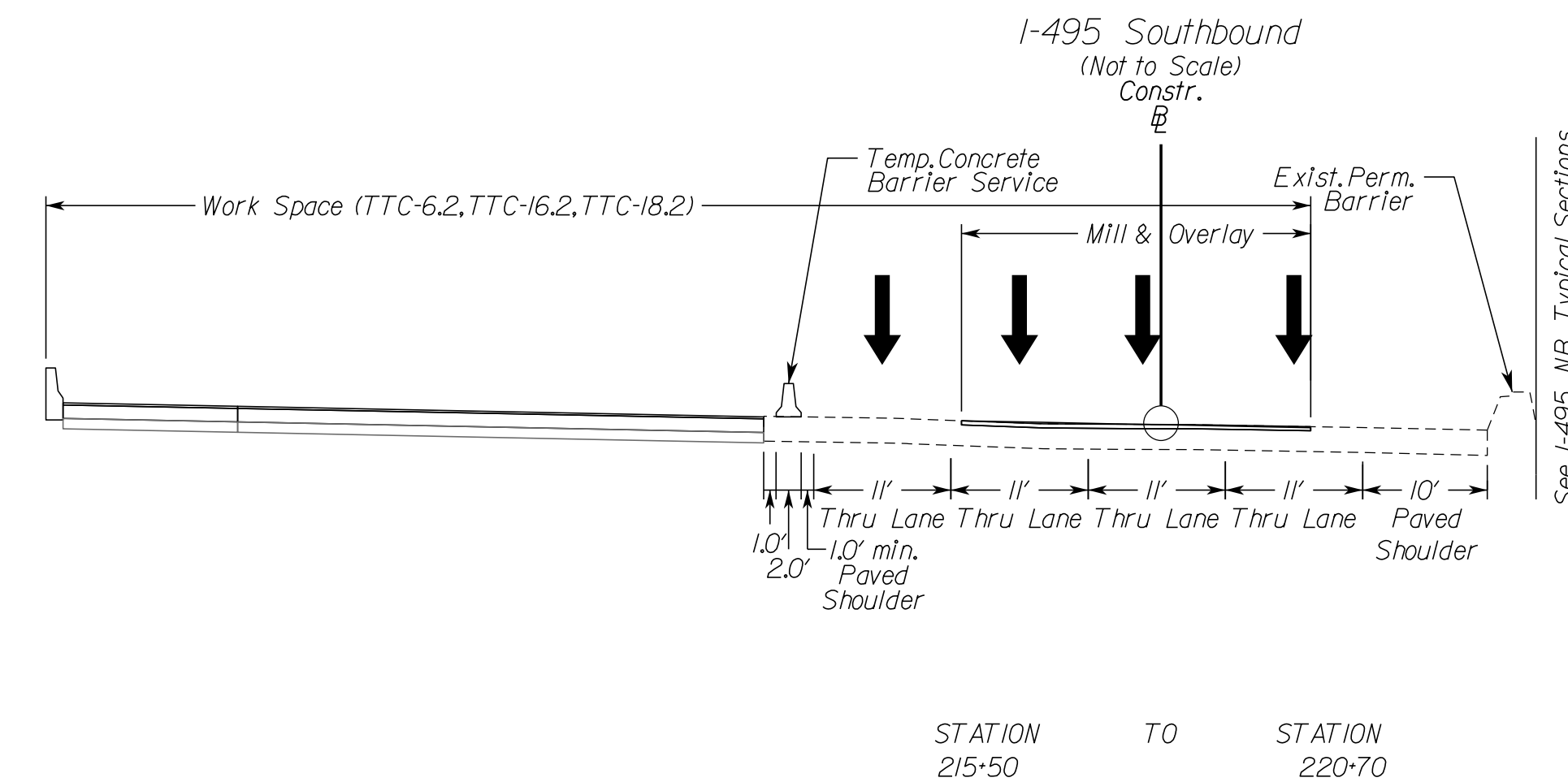
Temporary custom overhead guide signs and modifications and skid/post design will be detailed as part of shop drawings for review by engineer and the Department prior to fabrication. The construction in the immediate area of these sign locations and the associated protection will need sequenced to move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

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

Name	Baseline/Station Range
RW 4/4A	495NB Baseline Sta. 617+31.7 to Sta. 631+30.00
RW 16A	GTP Ramp NE Baseline Sta. 11+74.43 to Sta. 29+64.33
RW 7A	495SB Baseline Sta. 225+44.86 to Sta. 236+76.77
RW 17A	GWMP Ramp G21 Baseline Sta. 17+05.81 to Sta. 22+45.49
Noise Barrier 10 EXT.	495SB Baseline Sta. 272+61.44 to Sta. 276+74.54



NOVA DISTRICT

10/6/2022

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 Accumark - Michael Taylor, LS (703) 635-3060, 1/2/2021

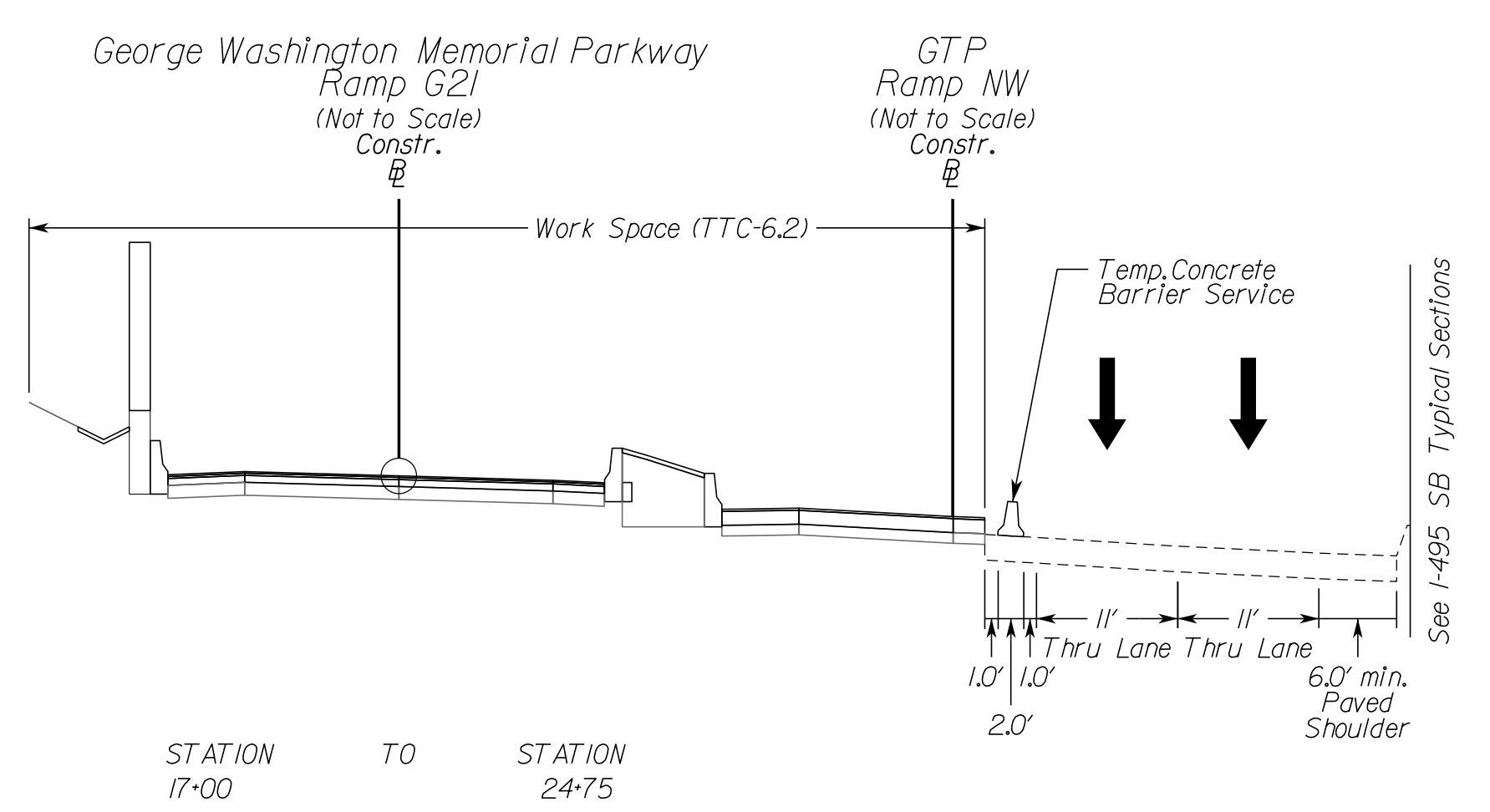
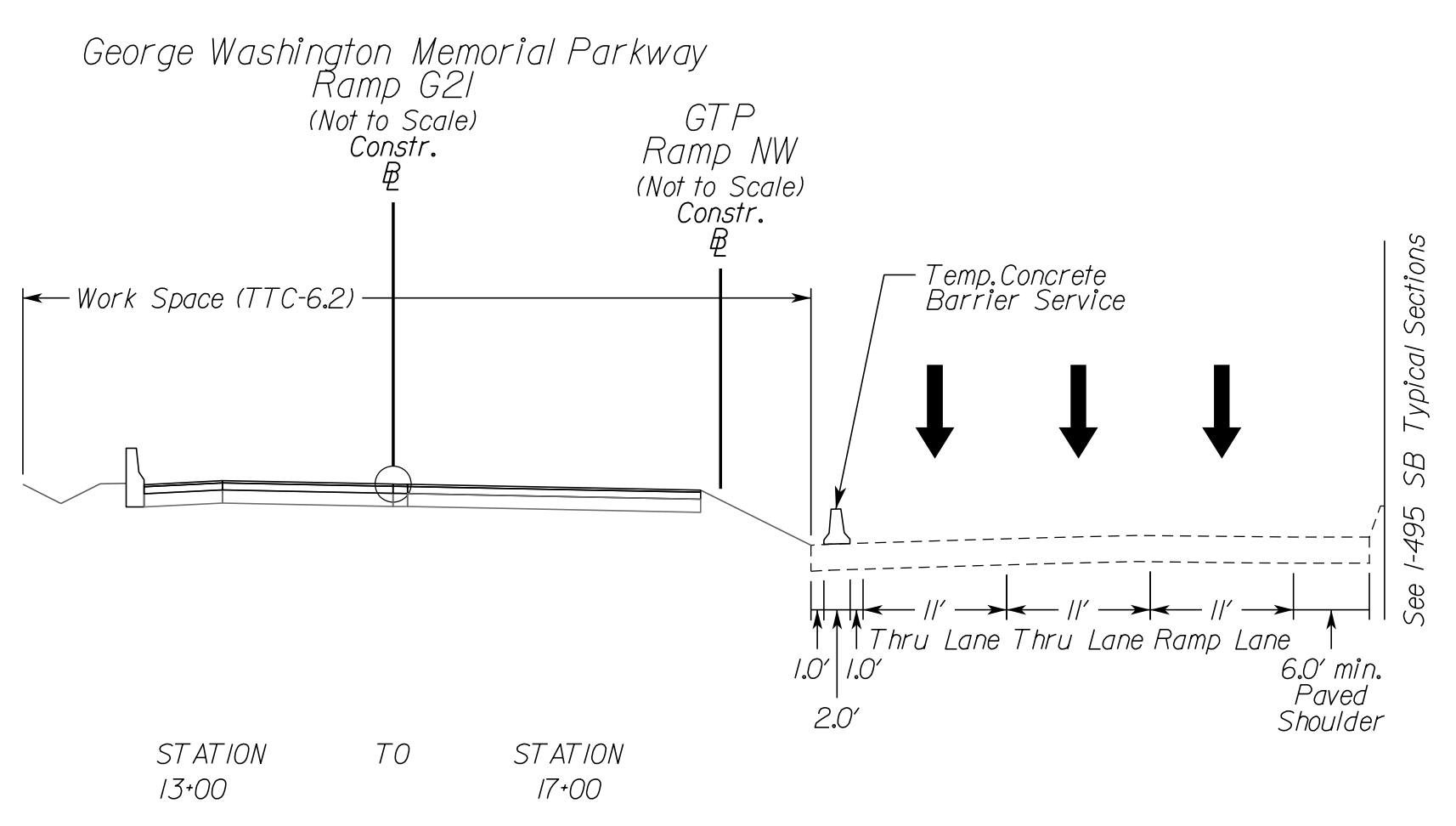
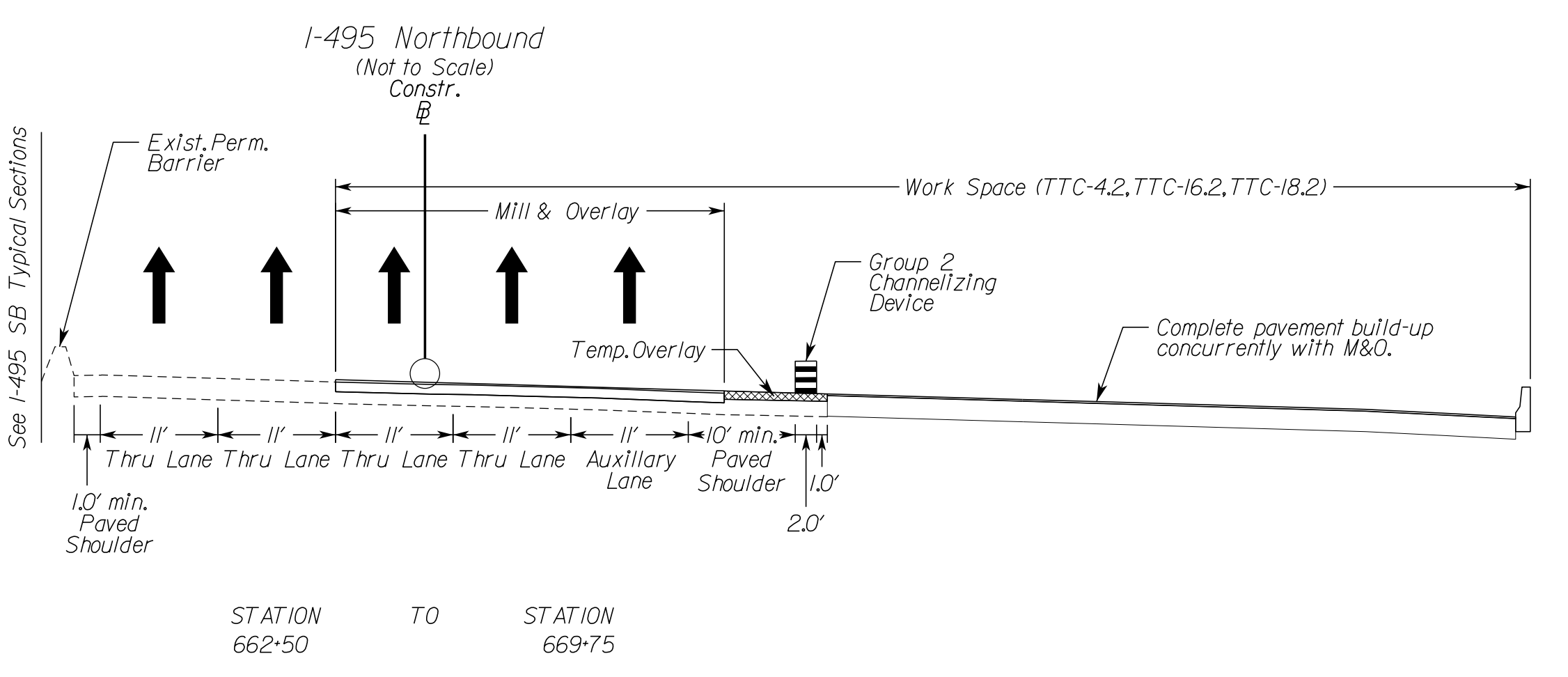
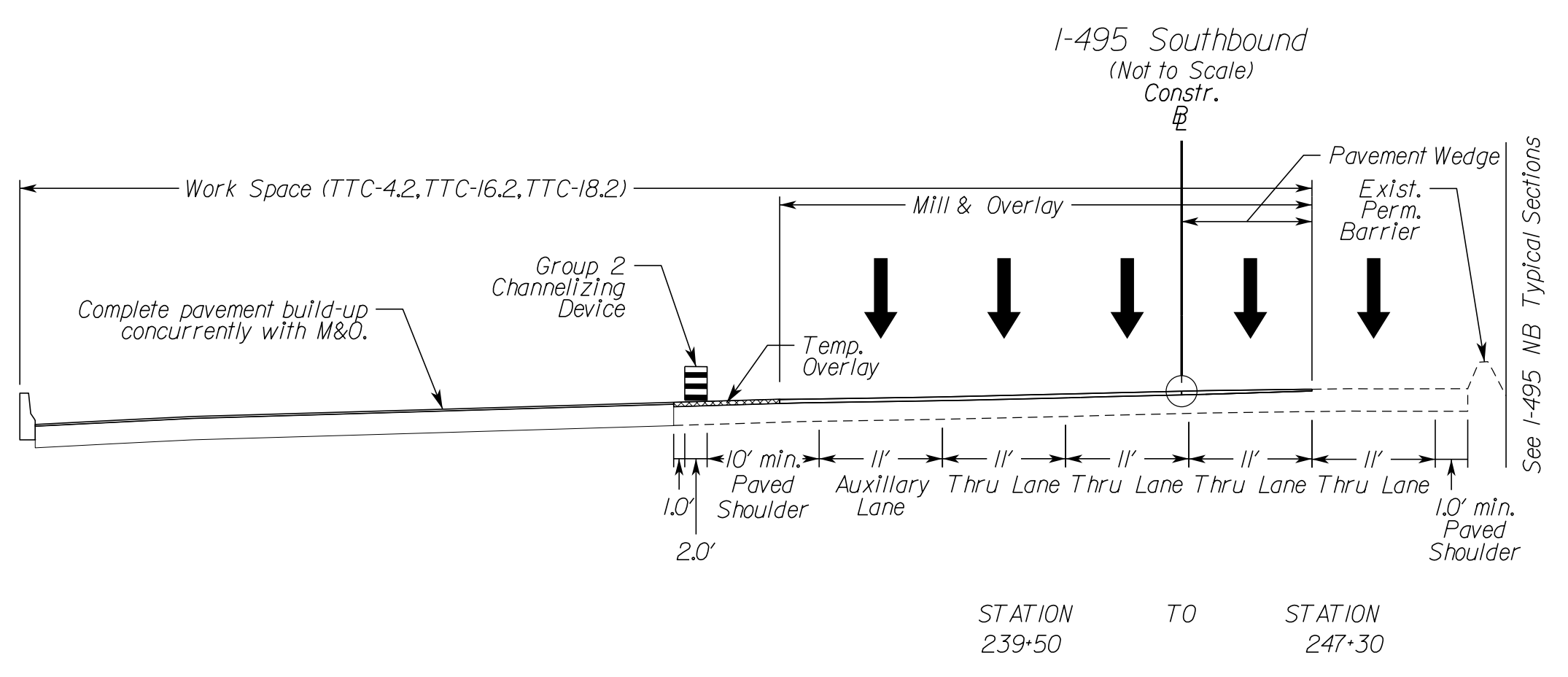
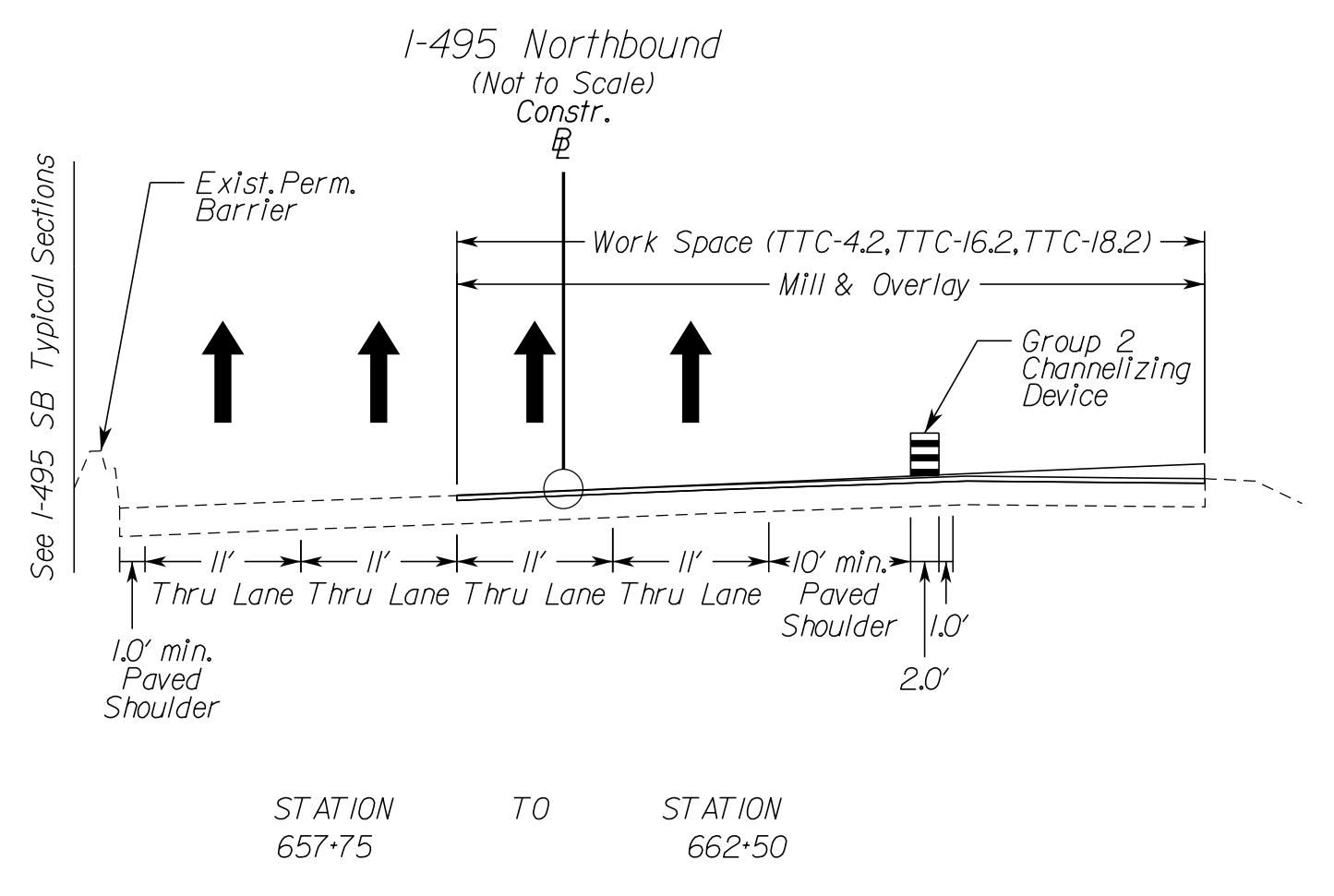
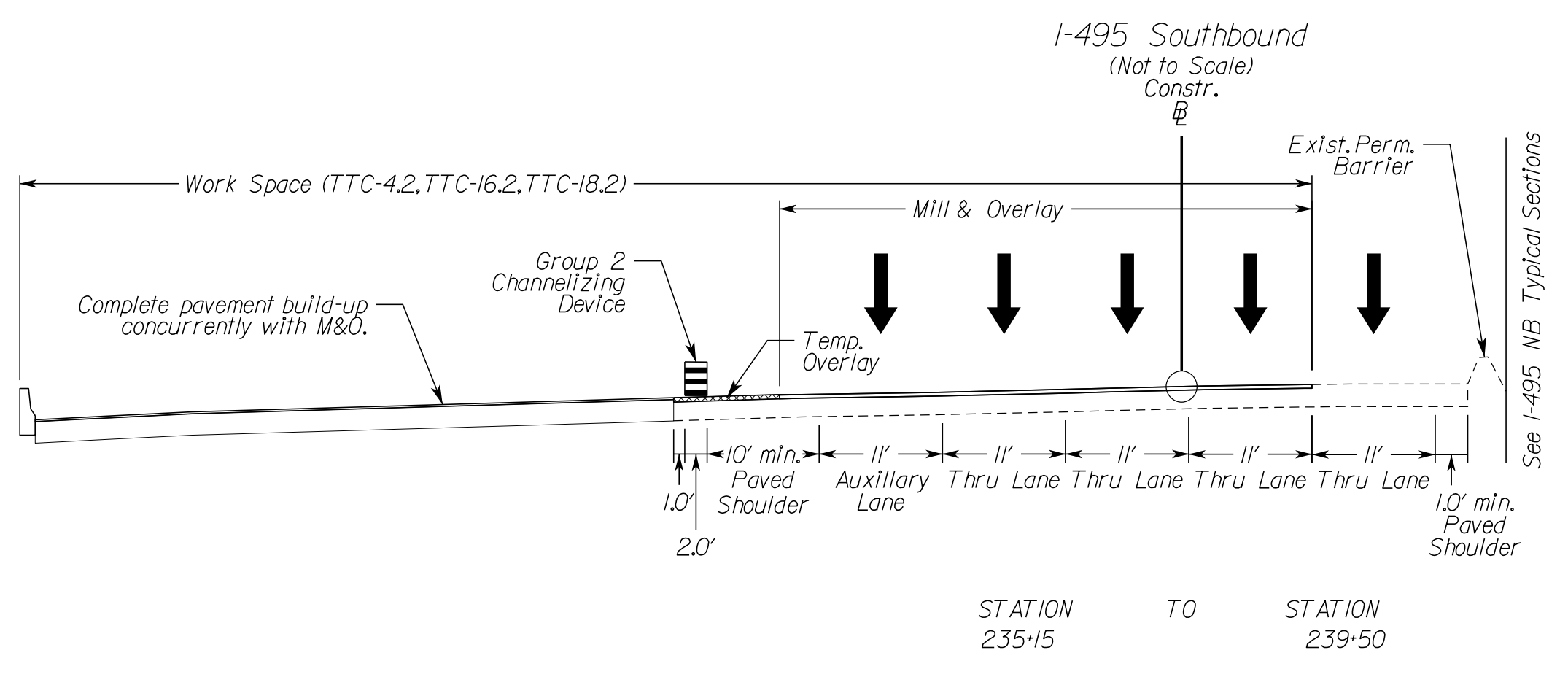


REVISED	STATE	ROUTE	STATE	VDOT PROJECT NO.	SHEET NO.
	VA	495		0495-029-419 C501 RW201	11(11B)2 AREA 3

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 Typical Sections Phase 1B



VDOT PROJECT NO. 0495-029-419	SHEET NO. 11(11B)2 AREA 3
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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, 1/2019  
 DESIGN BY RDA - Darrell Fischer, PE, (703) 334-0823  
 SUBSURFACE UTILITY BY, DATE Accurmark - Michael Taylor, LS, (703) 635-3060, 12/2021

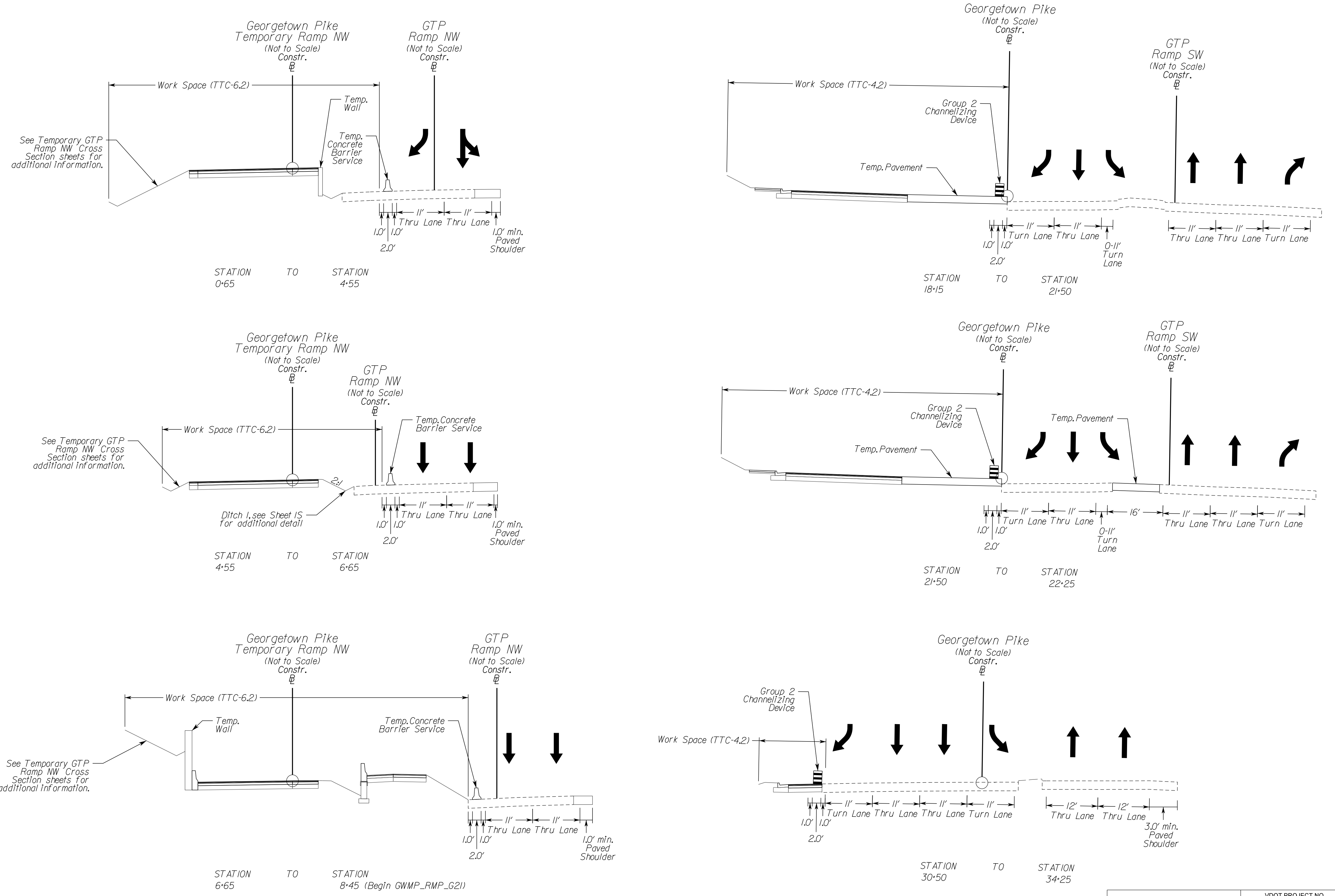
JOHN A. GIOMETTI  
 Lic. No. 032300  
 COMMONWEALTH OF VIRGINIA  
 PROFESSIONAL ENGINEER

REVISED	STATE	ROUTE	STATE	VDOT PROJECT NO.	SHEET NO.
	VA	495		0495-029-419 C501 RW201	11(1B)3 AREA 3

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 Typical Sections Phase 1B



NOVA DISTRICT

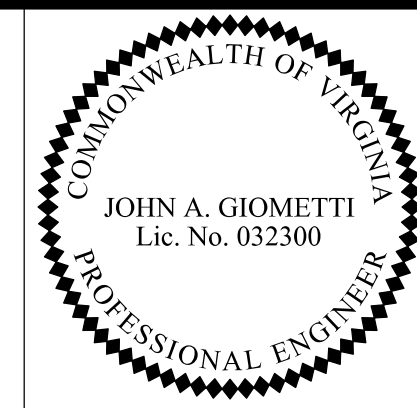
10/16/2022

VDOT PROJECT NO. 0495-029-419	SHEET NO. 11(1B)3 AREA 3
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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 Accurmark - Mitchell Taylor, LS, (703) 635-3060, 12/2021



REVISED	STATE	ROUTE	STATE PROJECT NO.	SHEET NO.
	VA	495	0495-029-419 C501 RW201	IJ(IIC) AREA 3

Rinker Design Assoc., P.C.  
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

# Temporary Traffic Control Narrative and Typical Sections Phase IC

## Sequence of Construction

### Phase IC/IC2/IC3

**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  
 - Georgetown Pike construction  
 - Georgetown Pike Ramp SE  
 - Georgetown Pike Ramp SW  
 - Georgetown Pike Ramp NE  
 - Georgetown Pike Ramp NW

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 2, 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, 29.2, 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.

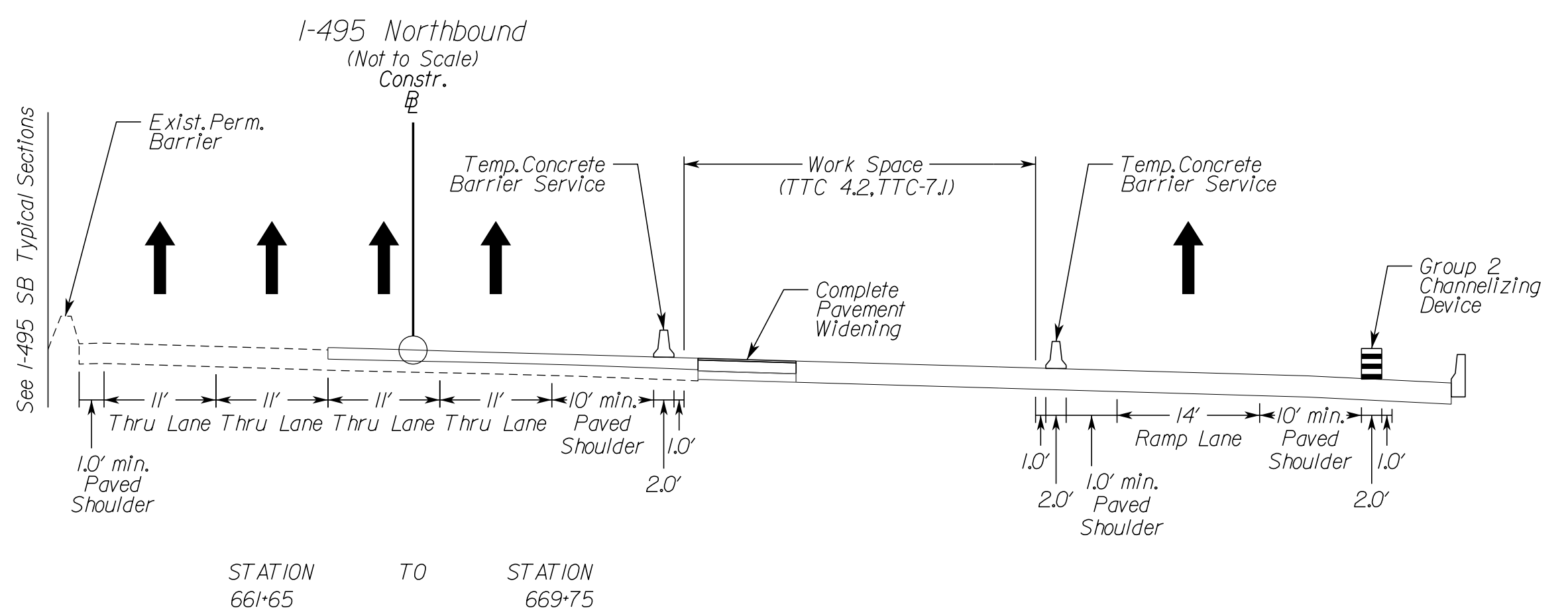
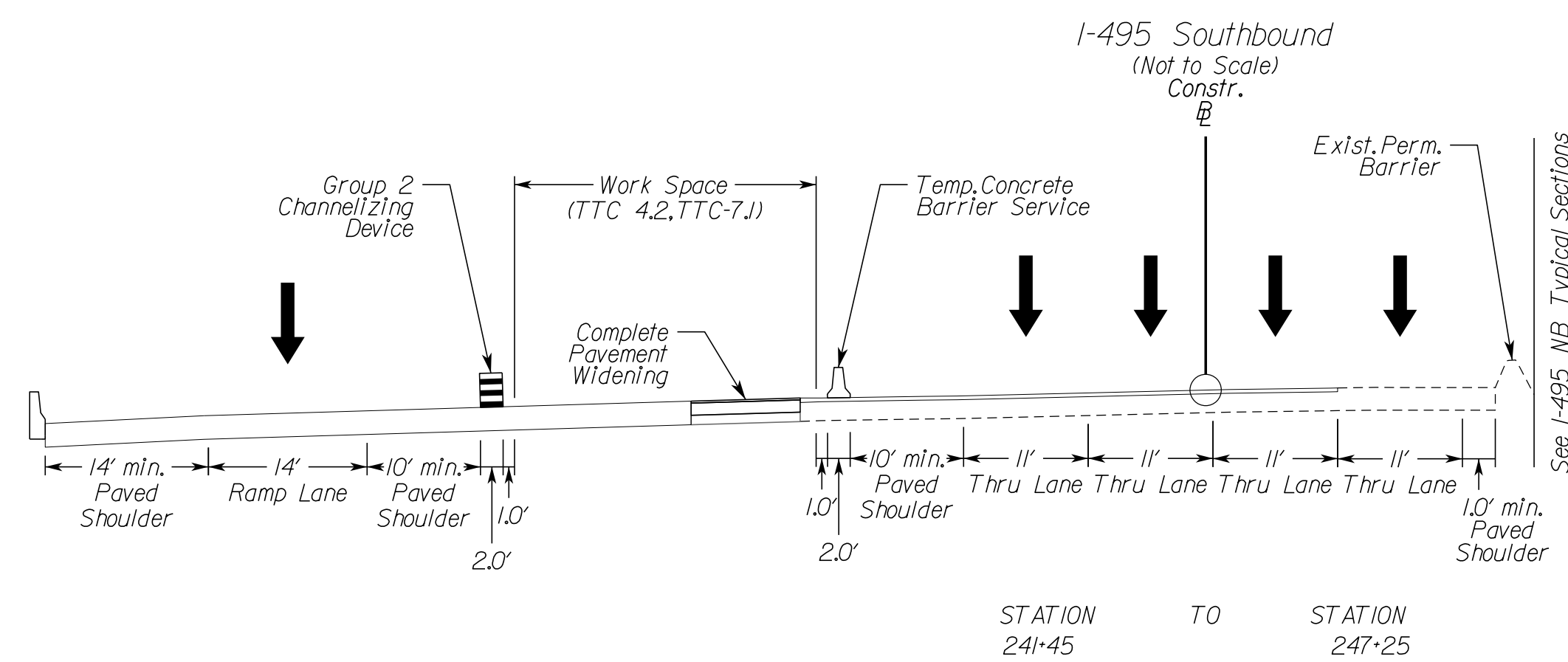
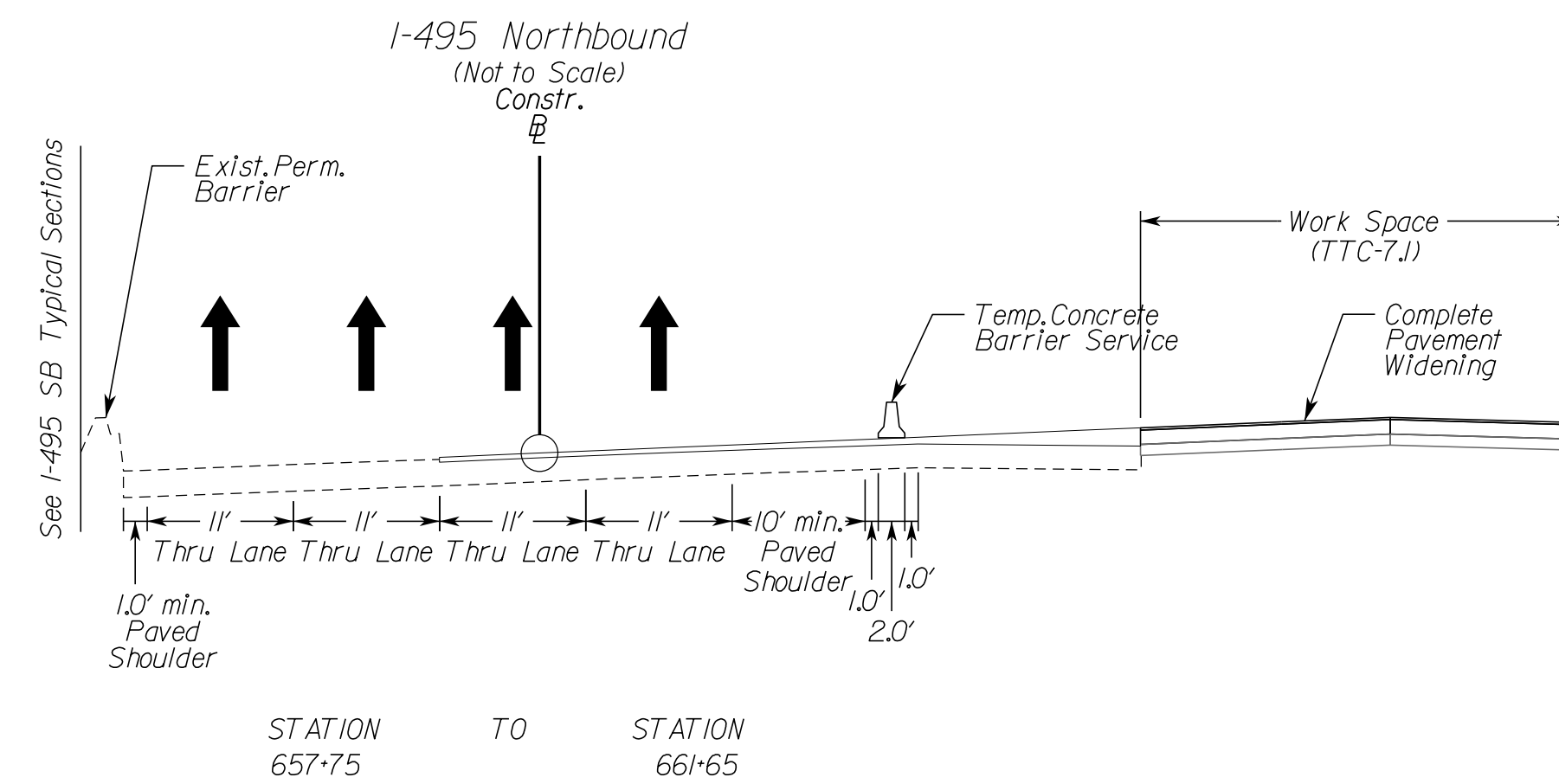
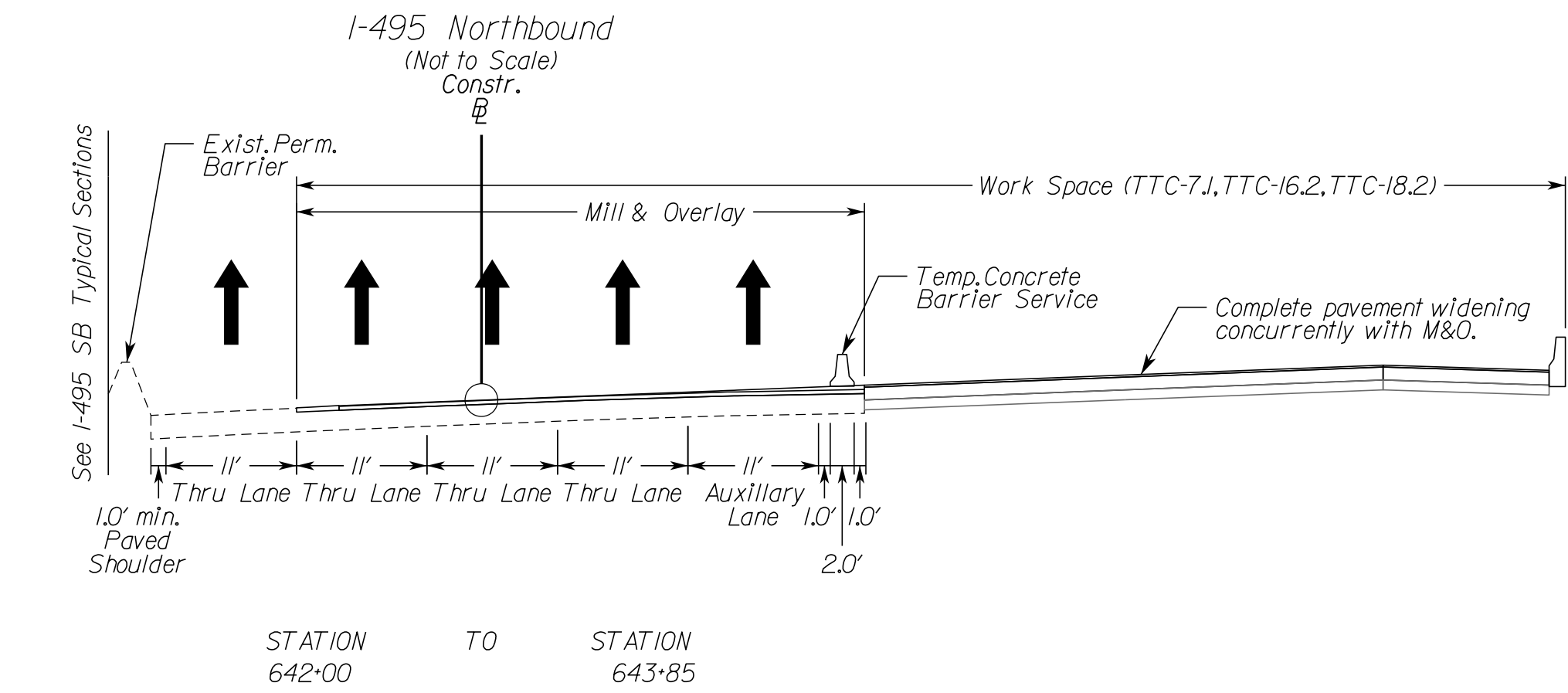
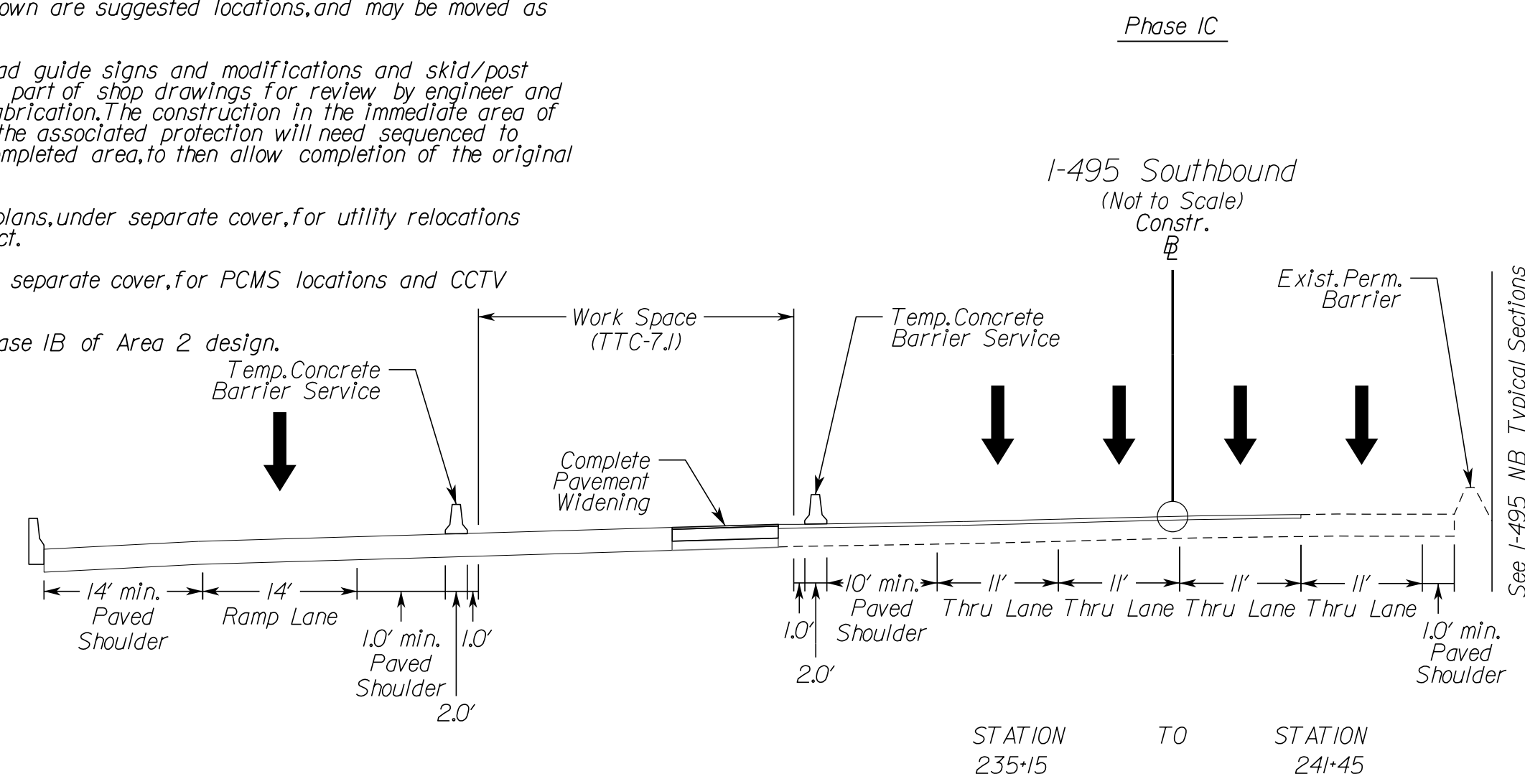
All construction entrances shown may not be open/active throughout this entire phase of construction. The Contractor has the ability to open and close construction access points, as necessary, as construction progresses. The construction entrances shown are suggested locations, and may be moved as field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

Phase IC shall tie into Phase IB of Area 2 design.

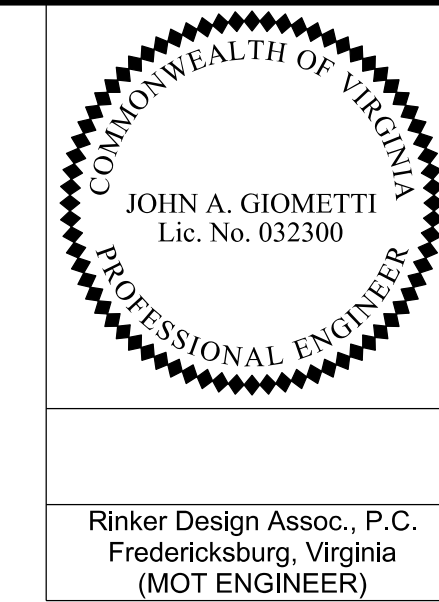


NOVA DISTRICT

10/6/2022

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

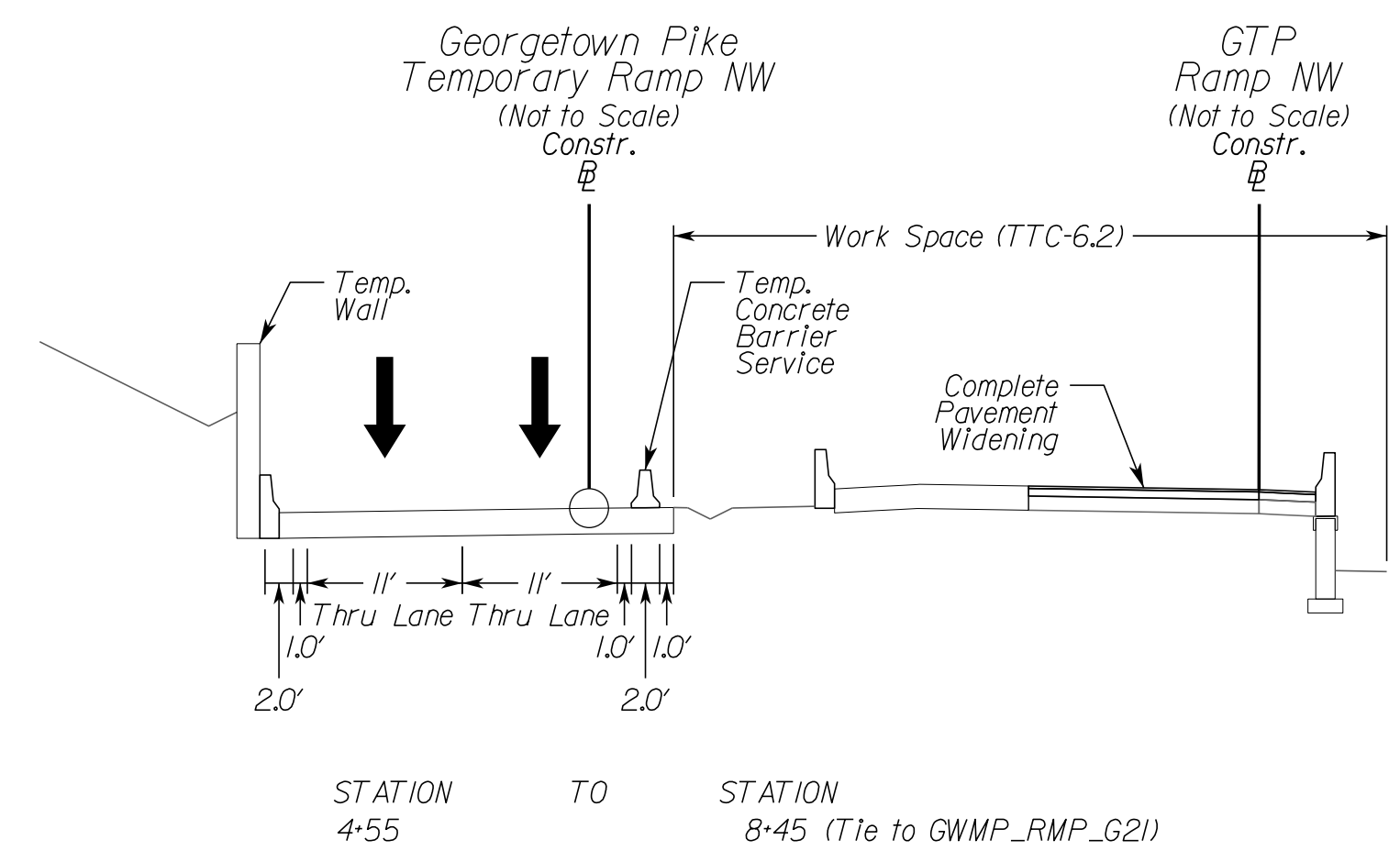
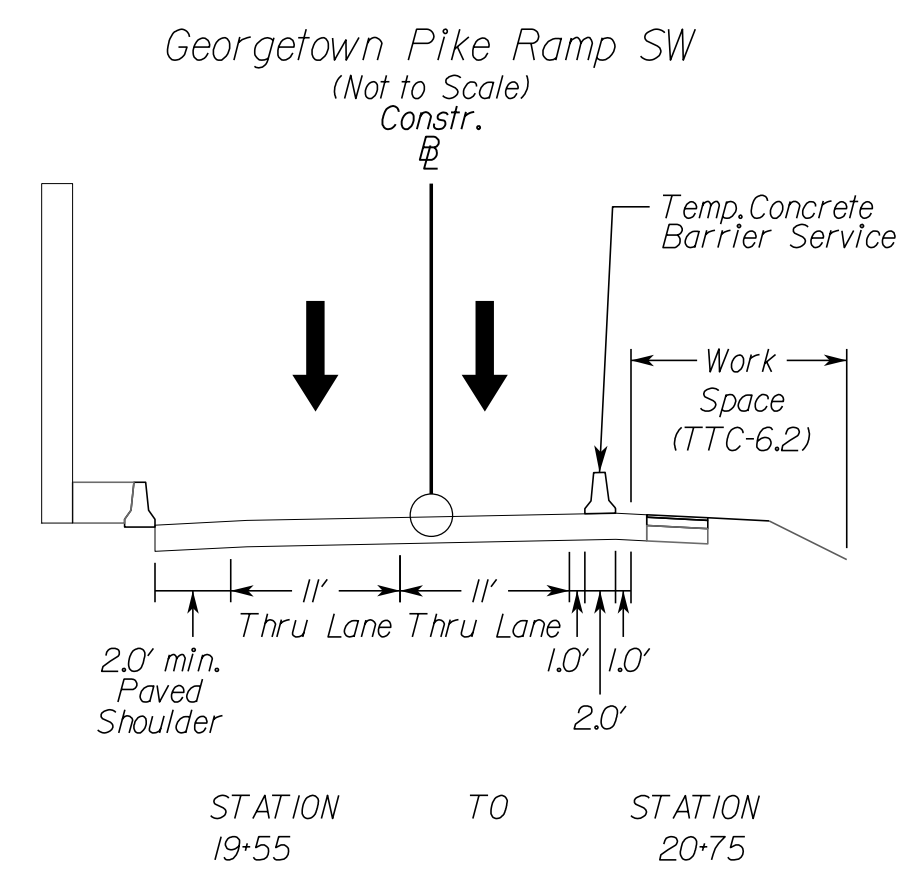
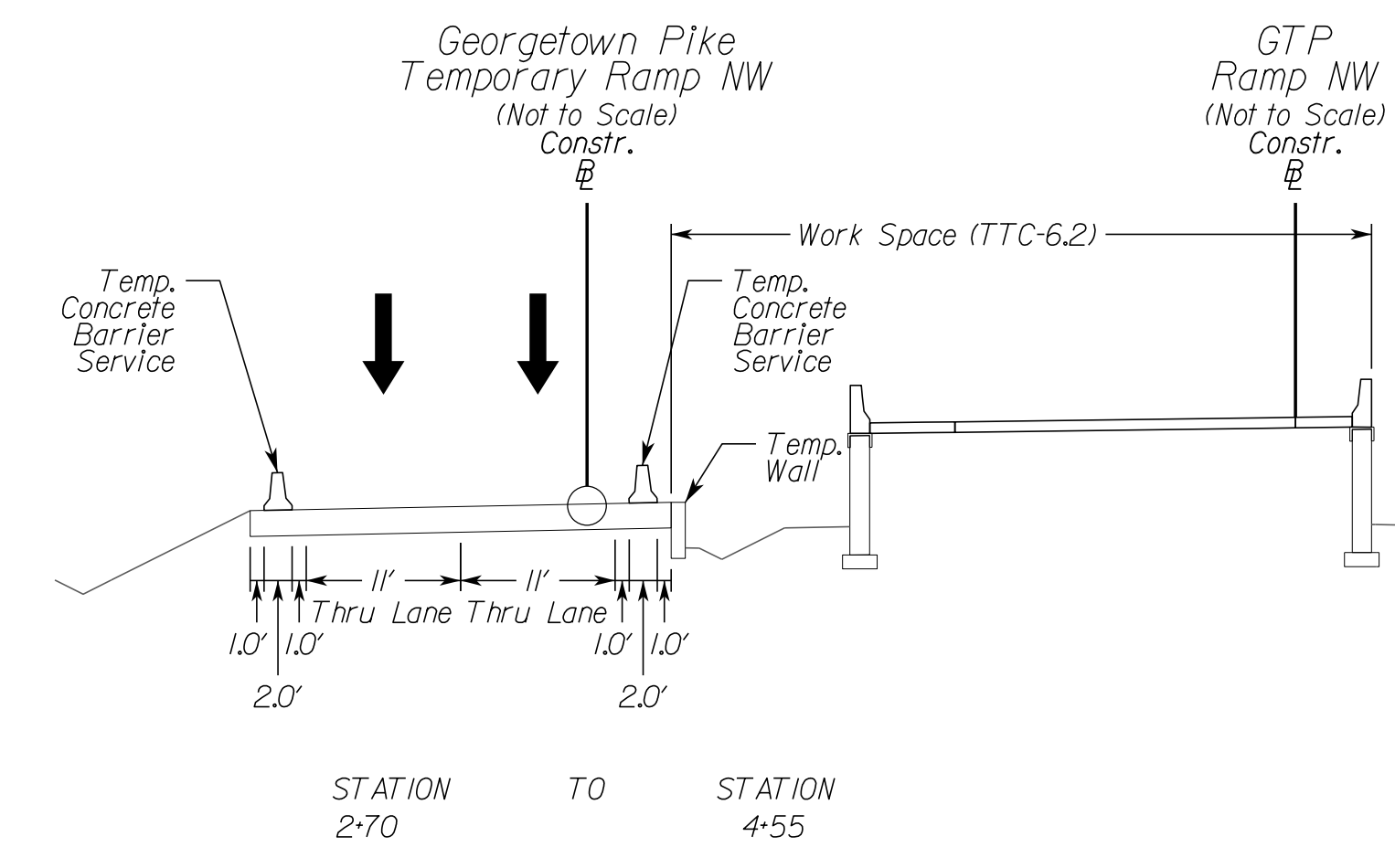
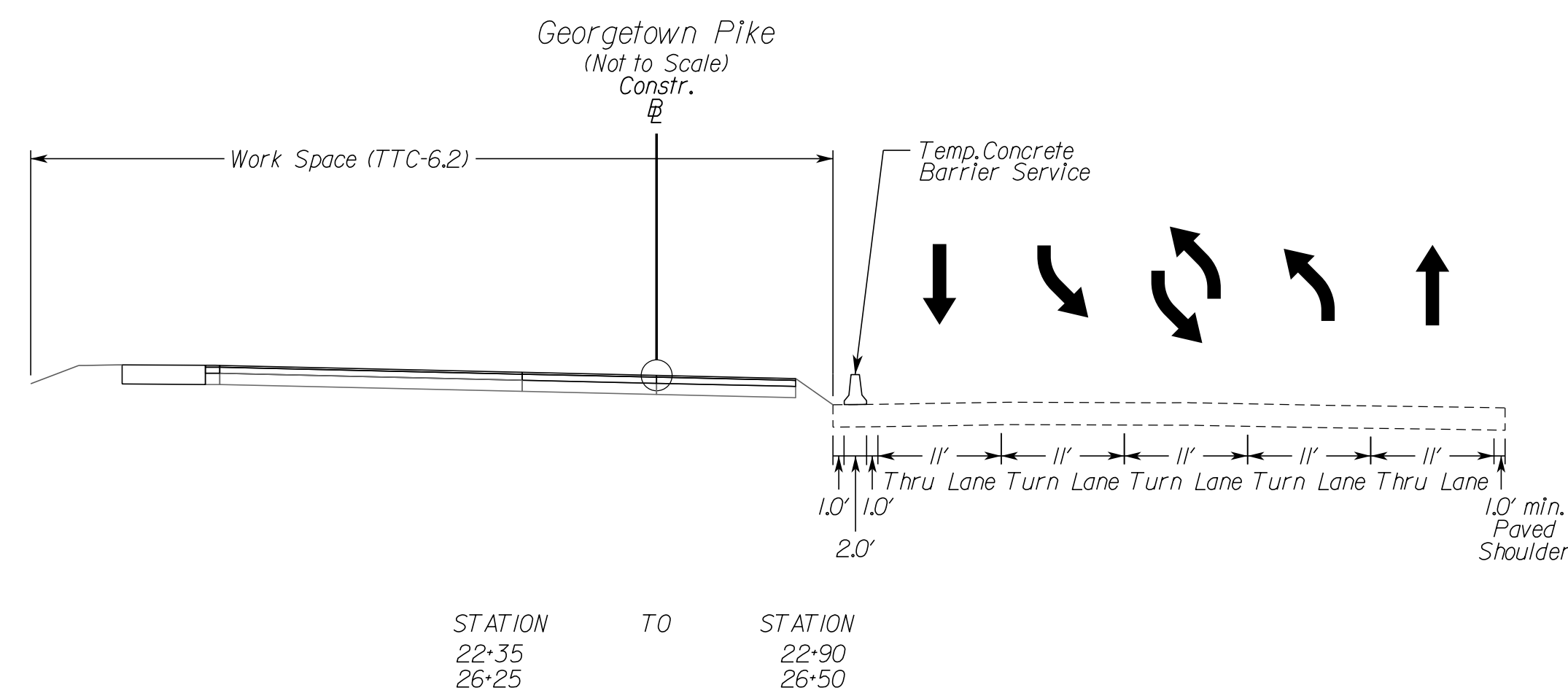
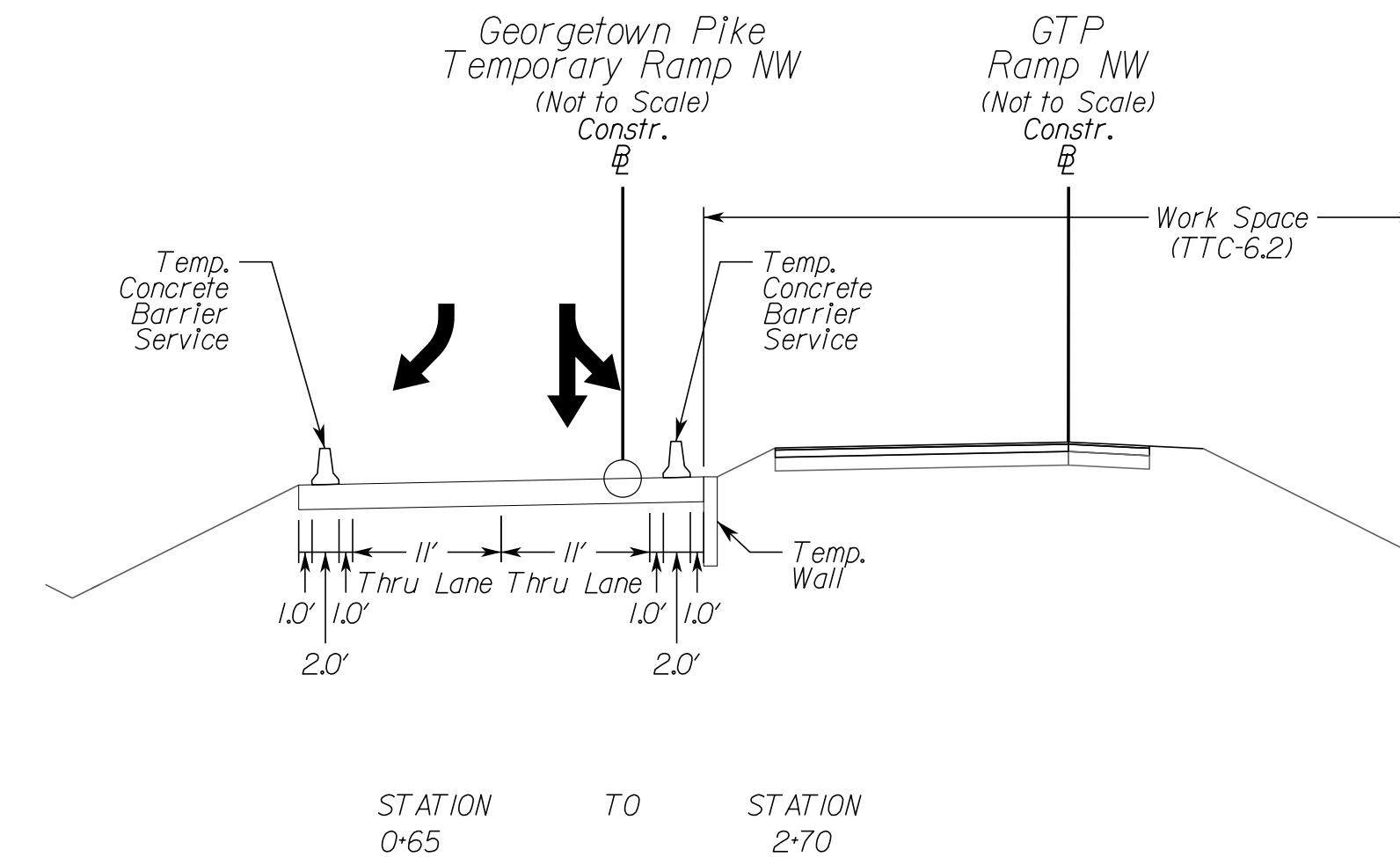
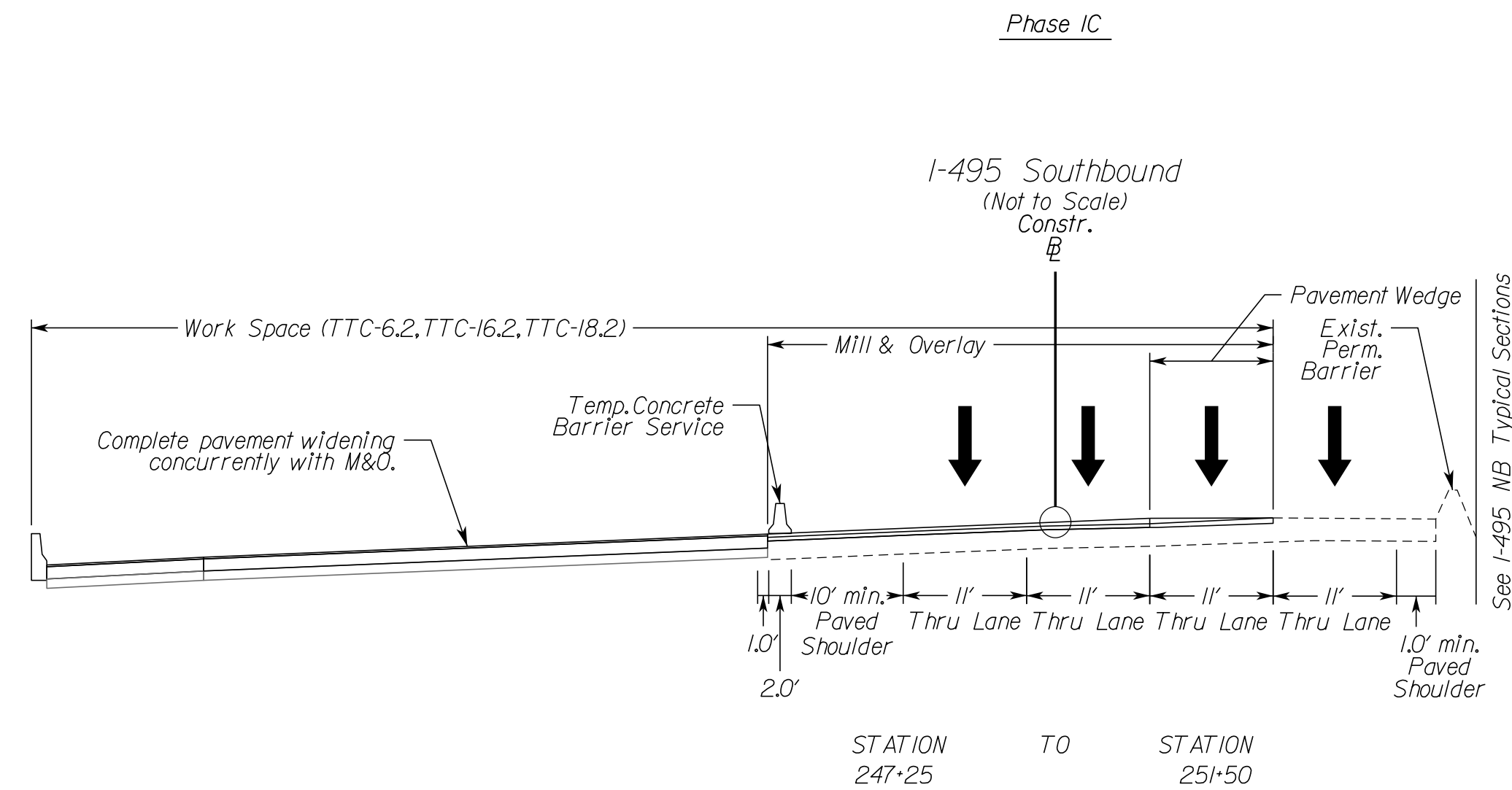


REVISED	STATE	ROUTE	STATE	VDOT PROJECT NO.	SHEET NO.
	VA	495		0495-029-419 C501 RW201	11(1C)2 AREA 3

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 Typical Sections Phase 1C



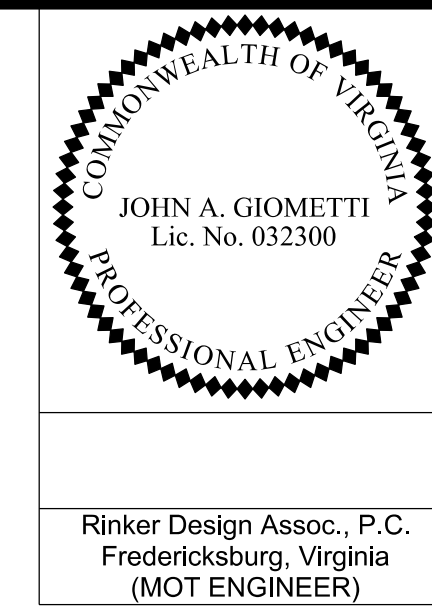
NOVA DISTRICT

10/16/2022

APPROVED FOR CONSTRUCTION



PROJECT MANAGER VDOT - Rupal Shah, P.E. (703) 259-2362  
 SURVEYED BY, DATE RDA - Nicholas Kougaull, 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



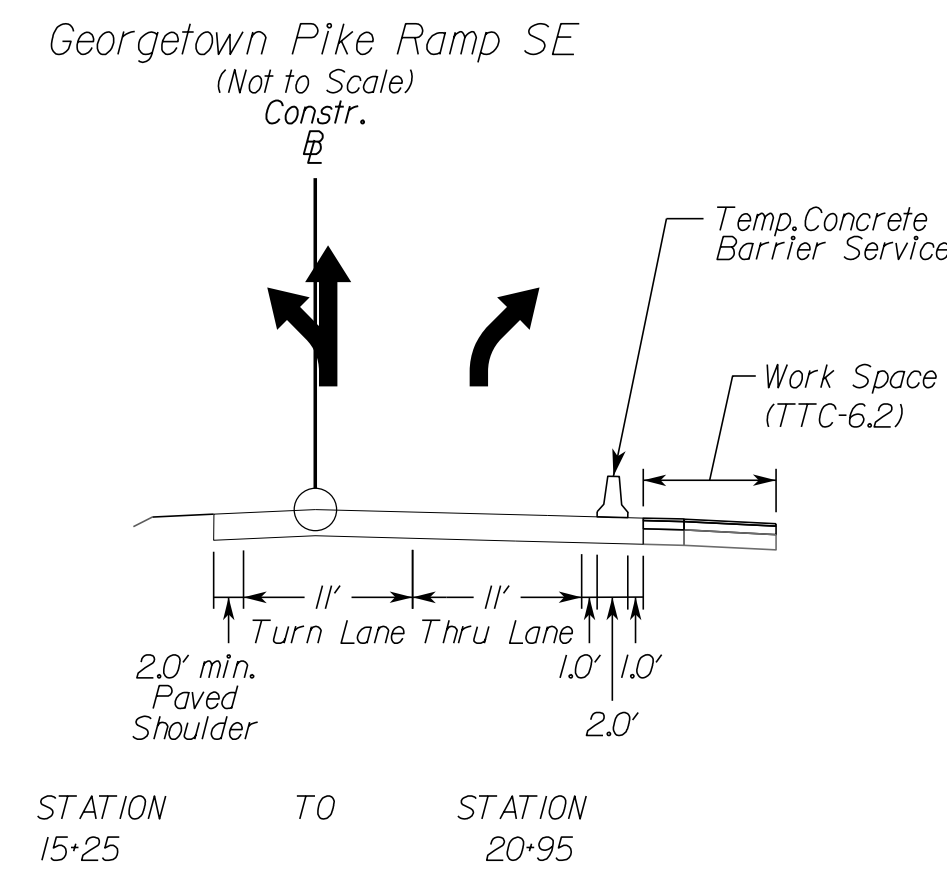
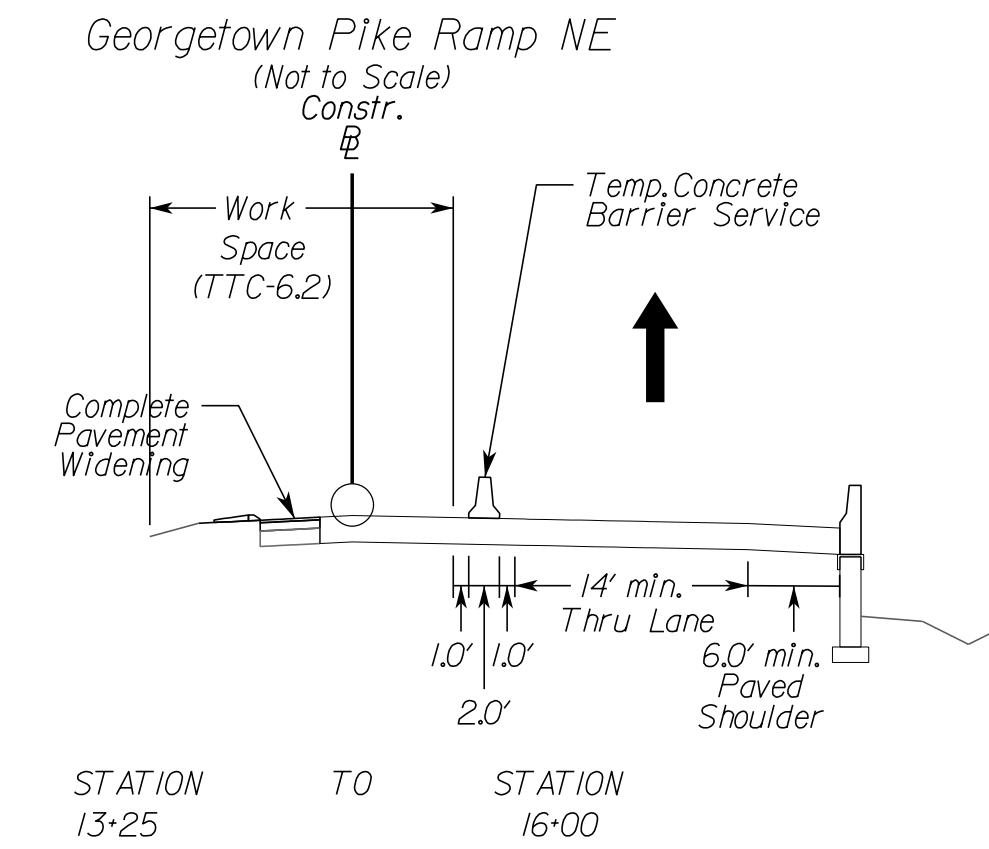
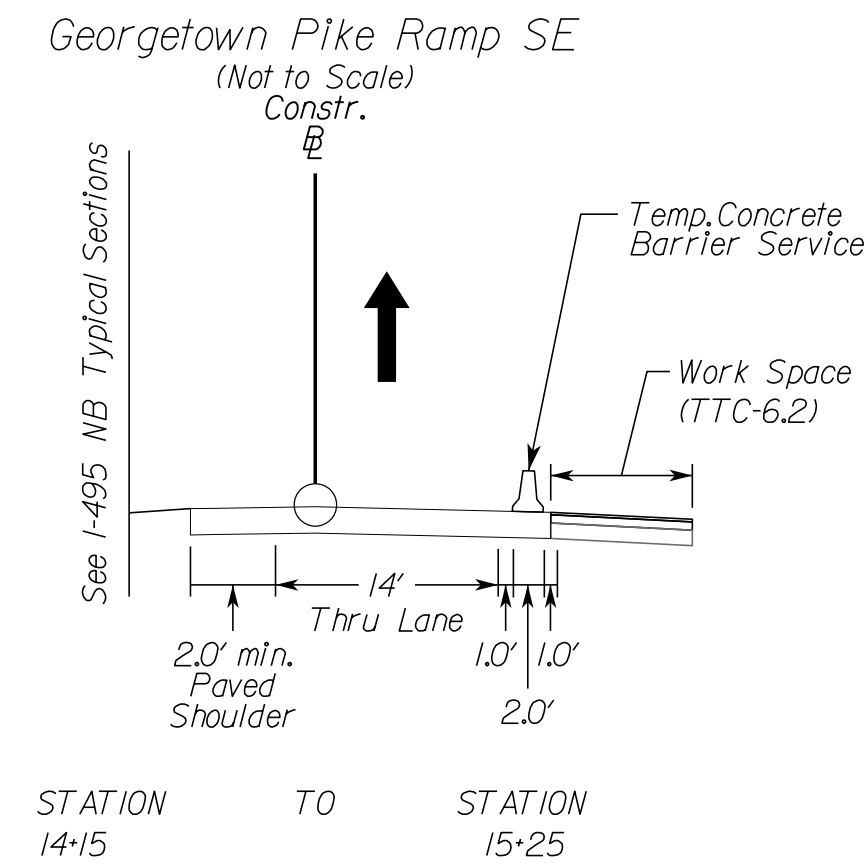
REVISED	STATE	ROUTE	STATE	VDOT PROJECT NO.	SHEET NO.
	VA	495		0495-029-419 C501 RW201	11(1C)3 AREA 3

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

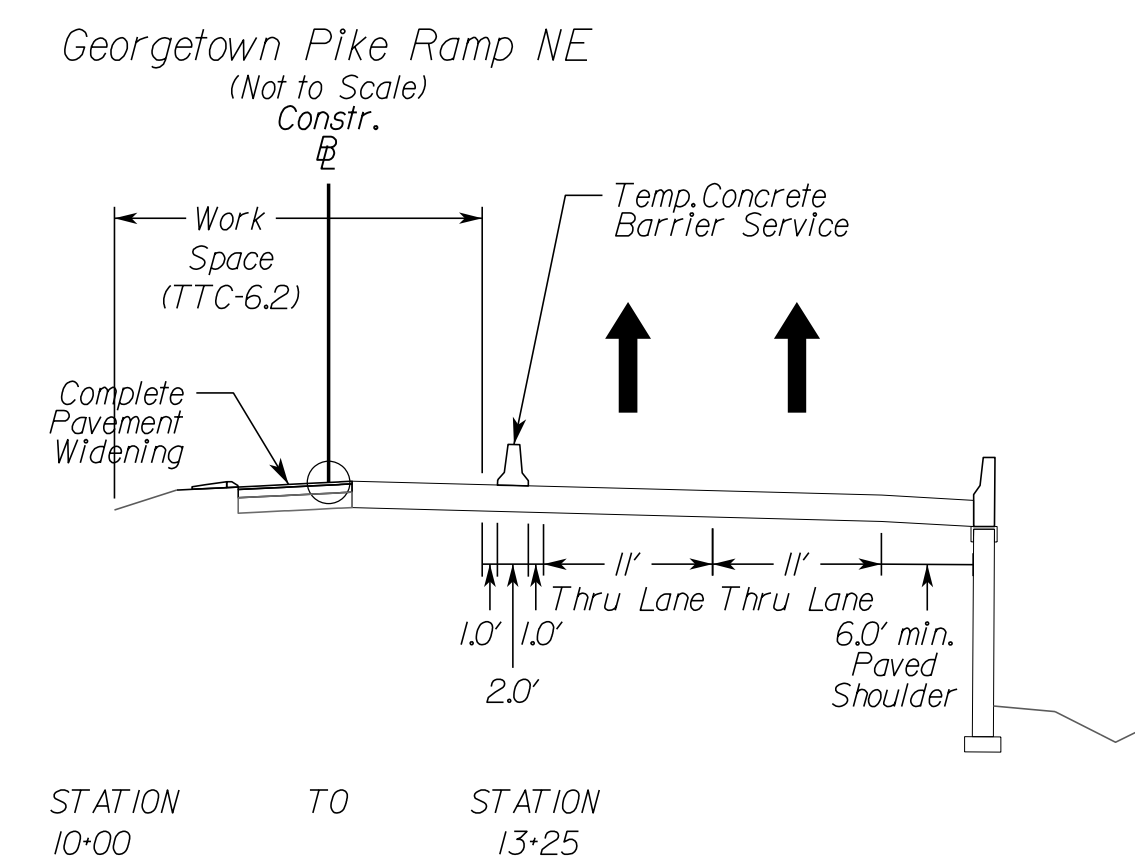
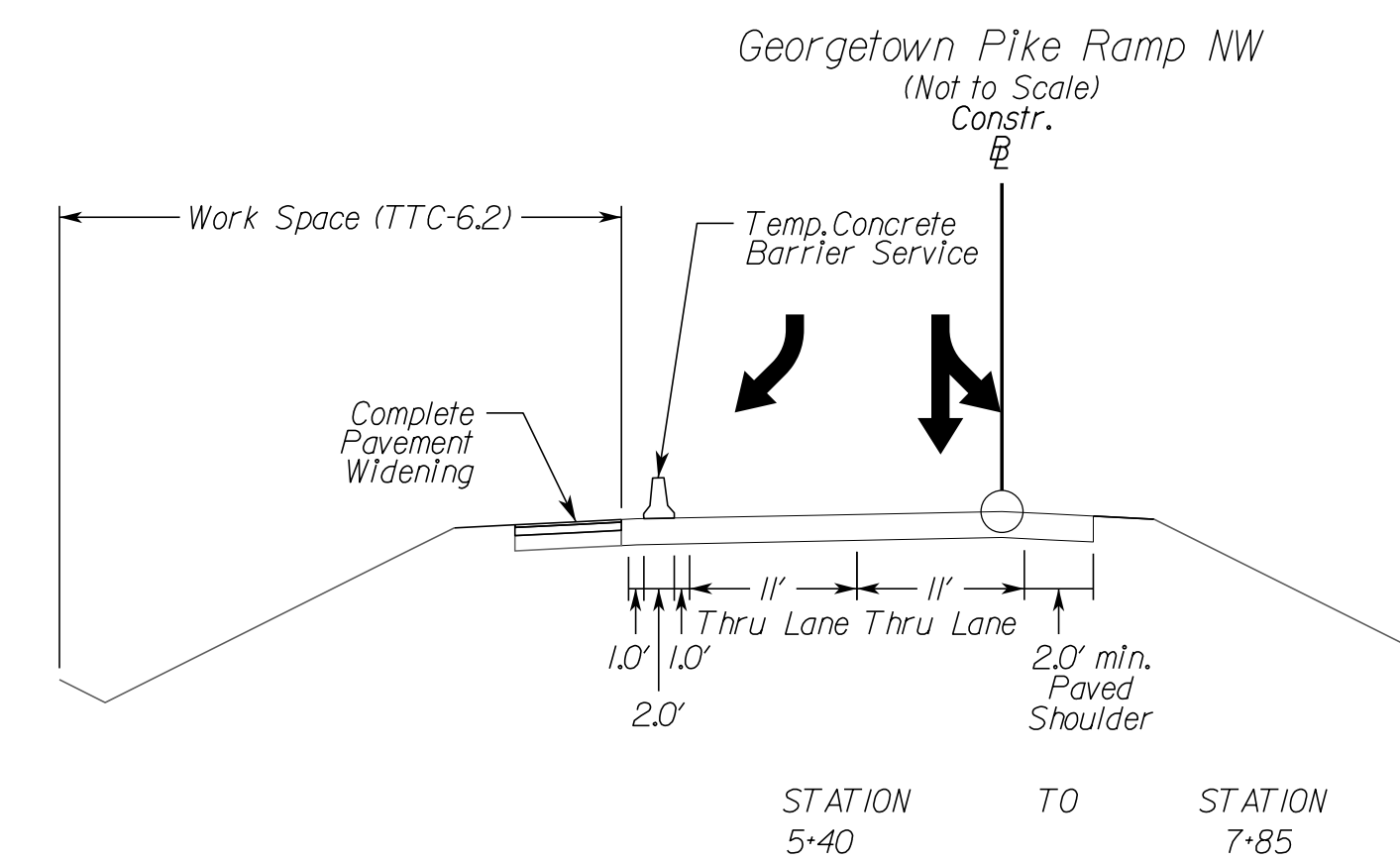
Rinker Design Assoc., P.C.  
 Fredericksburg, Virginia  
 (MOT ENGINEER)

# Temporary Traffic Control Typical Sections Phase 1C & 1C2

## Phase 1C



## Phase 1C2



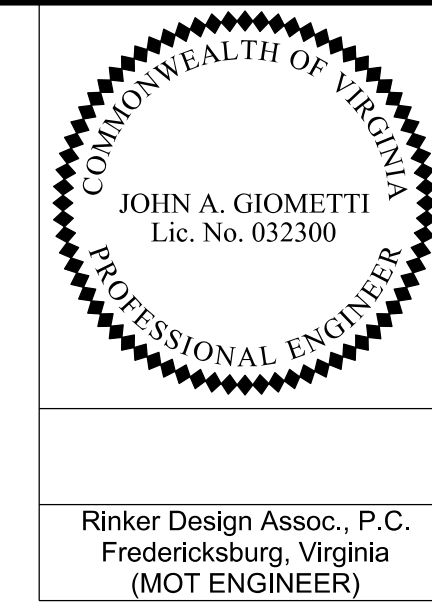
NOVA DISTRICT

10/16/2022

	VDOT PROJECT NO. 0495-029-419	SHEET NO. 11(1C)3 AREA 3
--	----------------------------------	--------------------------------

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



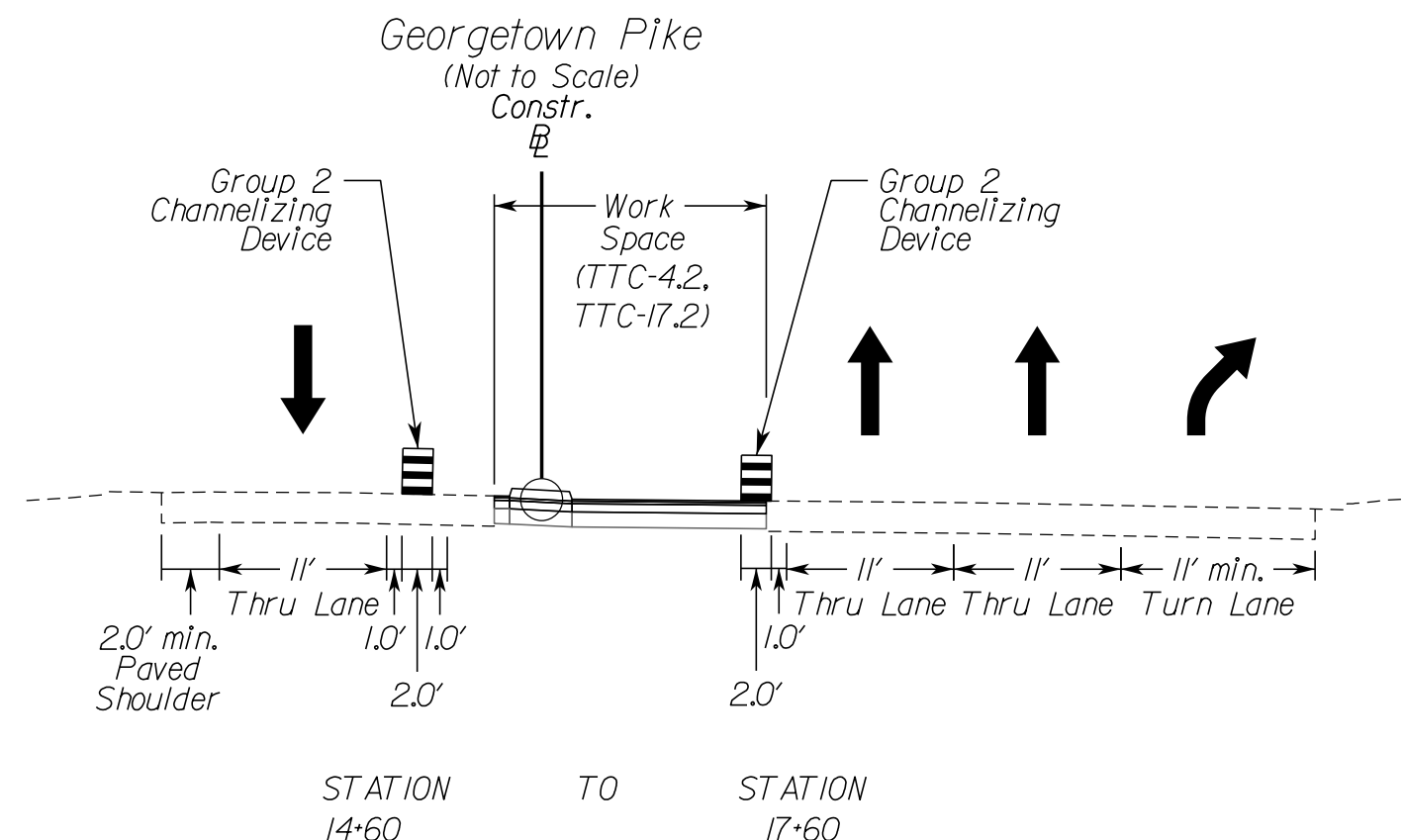
REVISED	STATE	ROUTE	STATE	VDOT PROJECT NO.	SHEET NO.
	VA.	495		0495-029-419 C501 RW201	111C14 AREA 3

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

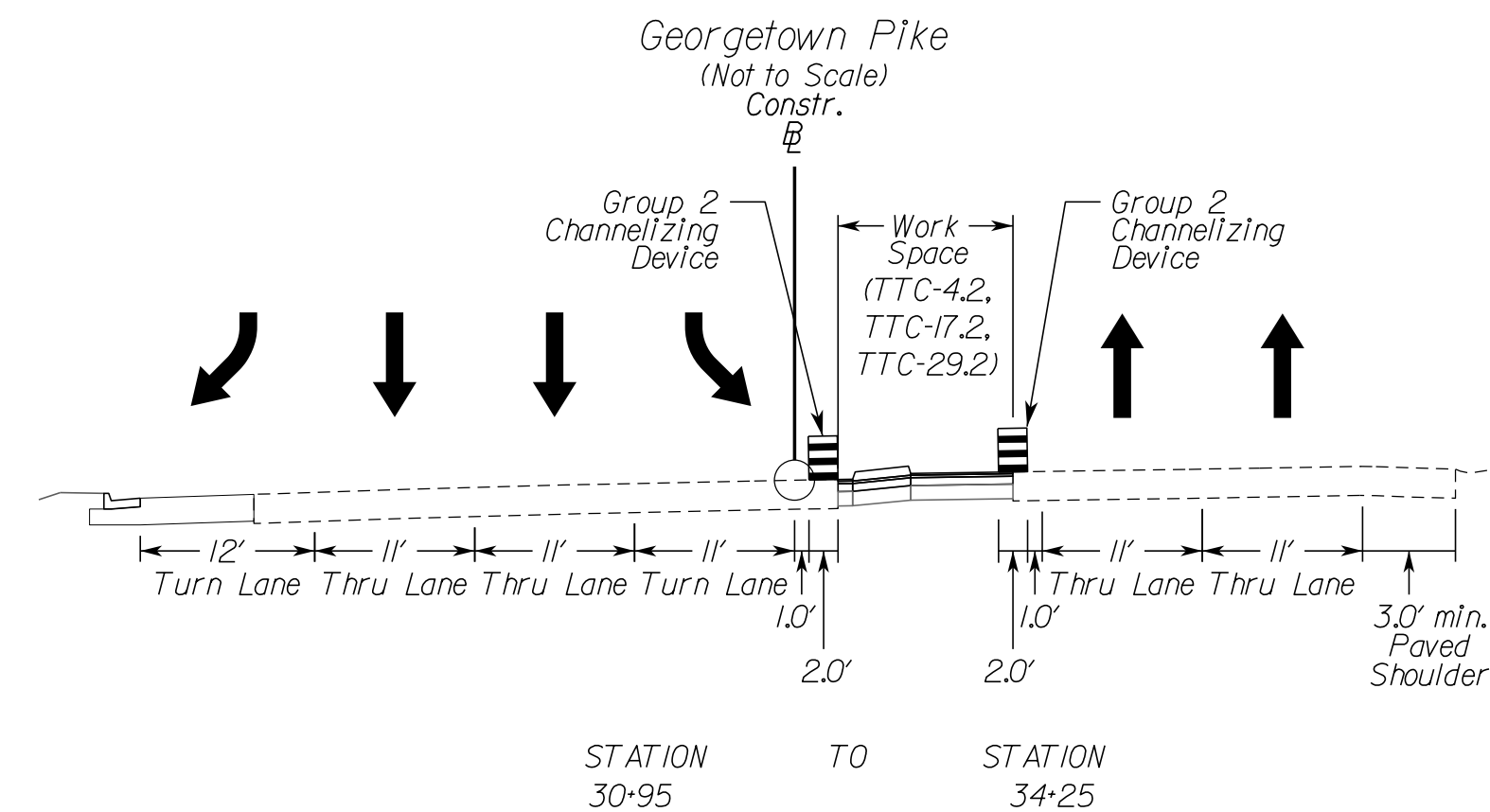
Rinker Design Assoc., P.C.  
 Fredericksburg, Virginia  
 (MOT ENGINEER)

# Temporary Traffic Control Typical Sections Phase 1C & 1C2 & 1C3

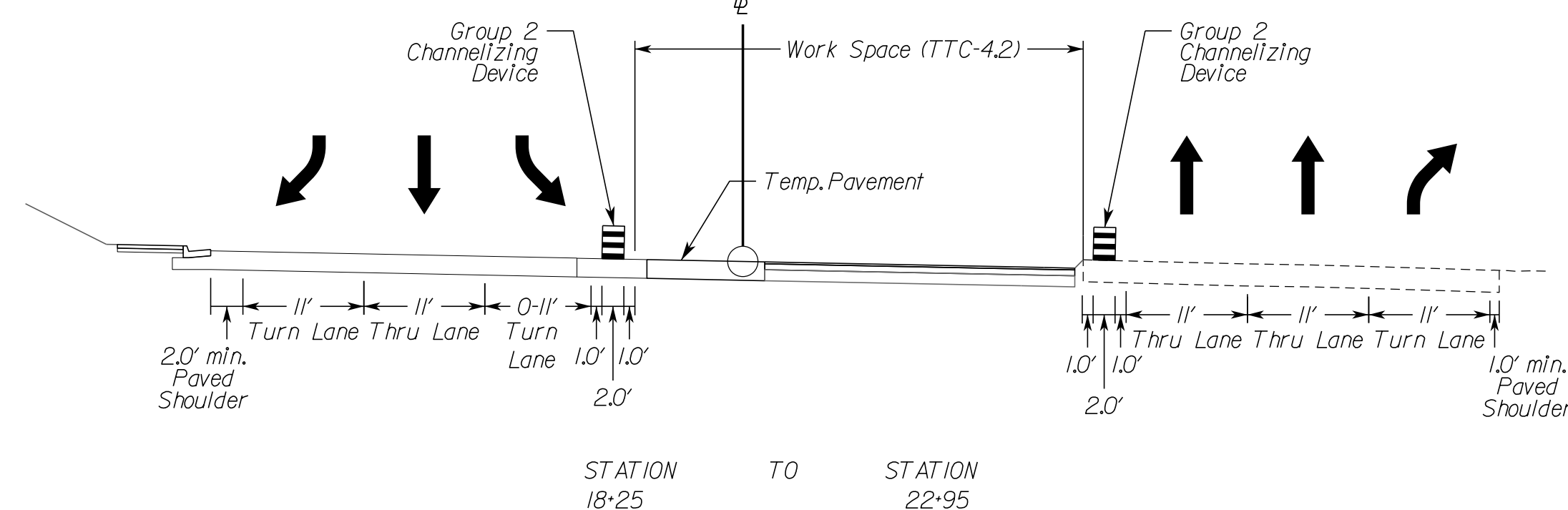
Phase 1C2



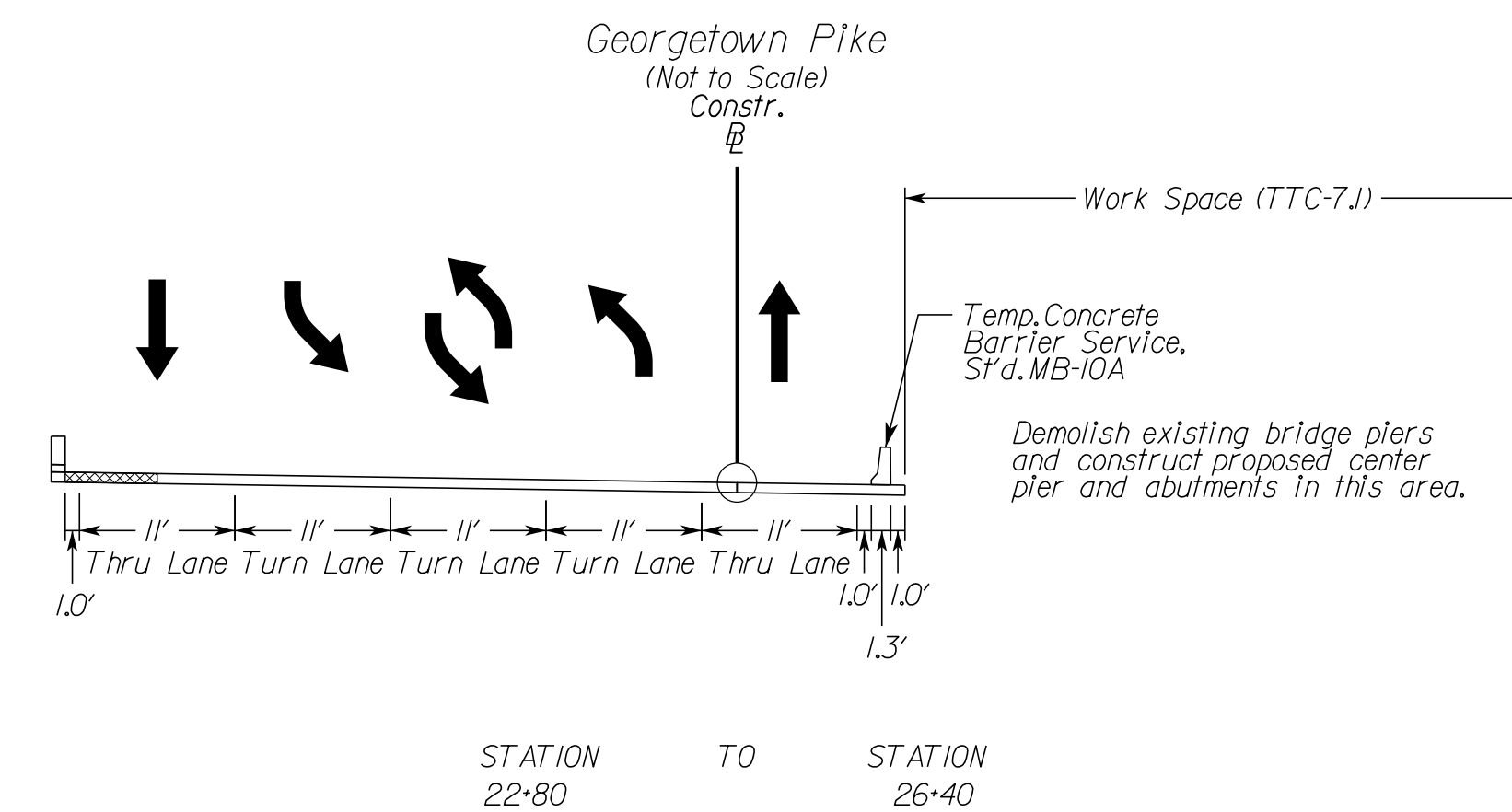
Phase 1C2



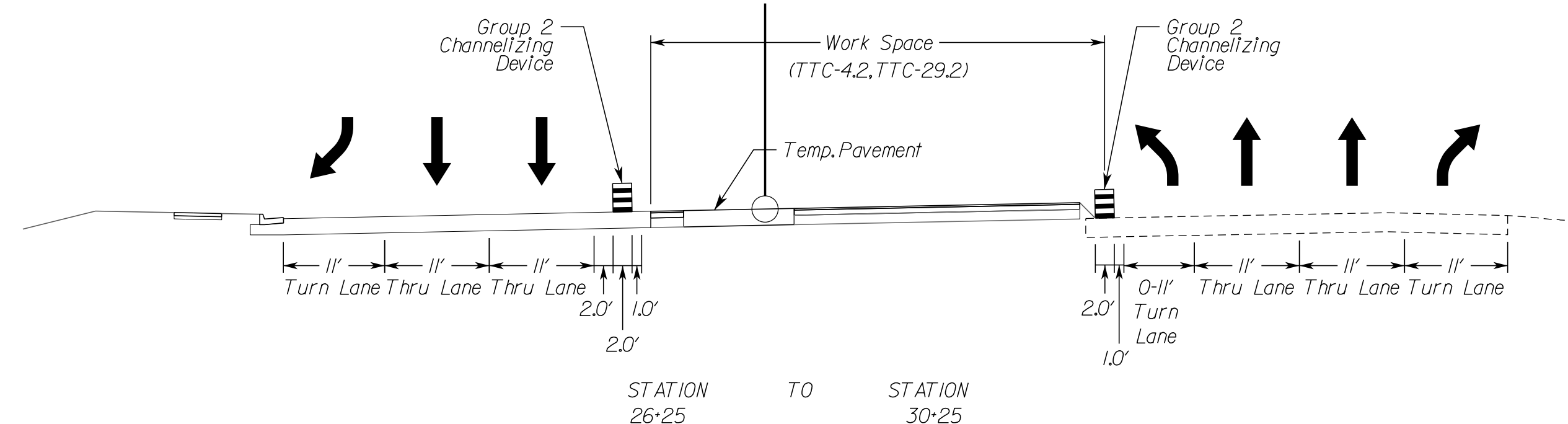
Georgetown Pike  
 (Not to Scale)  
 Constr.



Phase 1C3



Georgetown Pike  
 (Not to Scale)  
 Constr.



NOVA DISTRICT

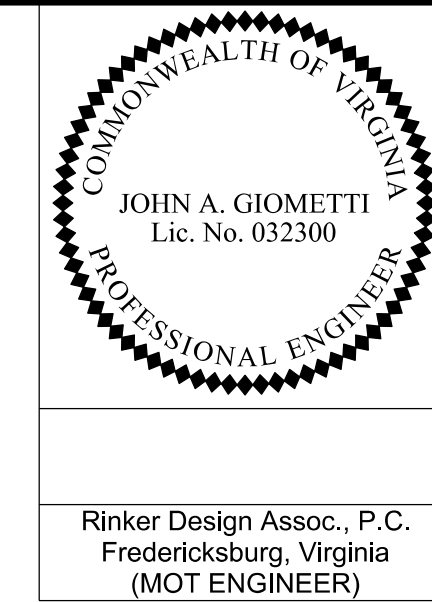
10/6/2022

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 Accurmark - Michael Taylor, LS, (703) 635-3060, 12/2021

# Temporary Traffic Control Narrative and Typical Sections Phase ID



REVISED	STATE	ROUTE	STATE	VDOT PROJECT NO.	SHEET NO.
	VA	495		0495-029-419 C501 RW201	1J(IID)1 AREA 3

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)

## Sequence of Construction

### Phase ID

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  
 - Georgetown Pike bridge  
 - Georgetown Pike mill & overlay and widening  
 - Georgetown Pike Ramp SE  
 - Georgetown Pike Ramp SW

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-1J, 4.2, 5.2, 6.2, 7.1, 16.2, 17.2, 18.2, 23.2, 28.2, 29.2, 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 VAWAPM, 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.

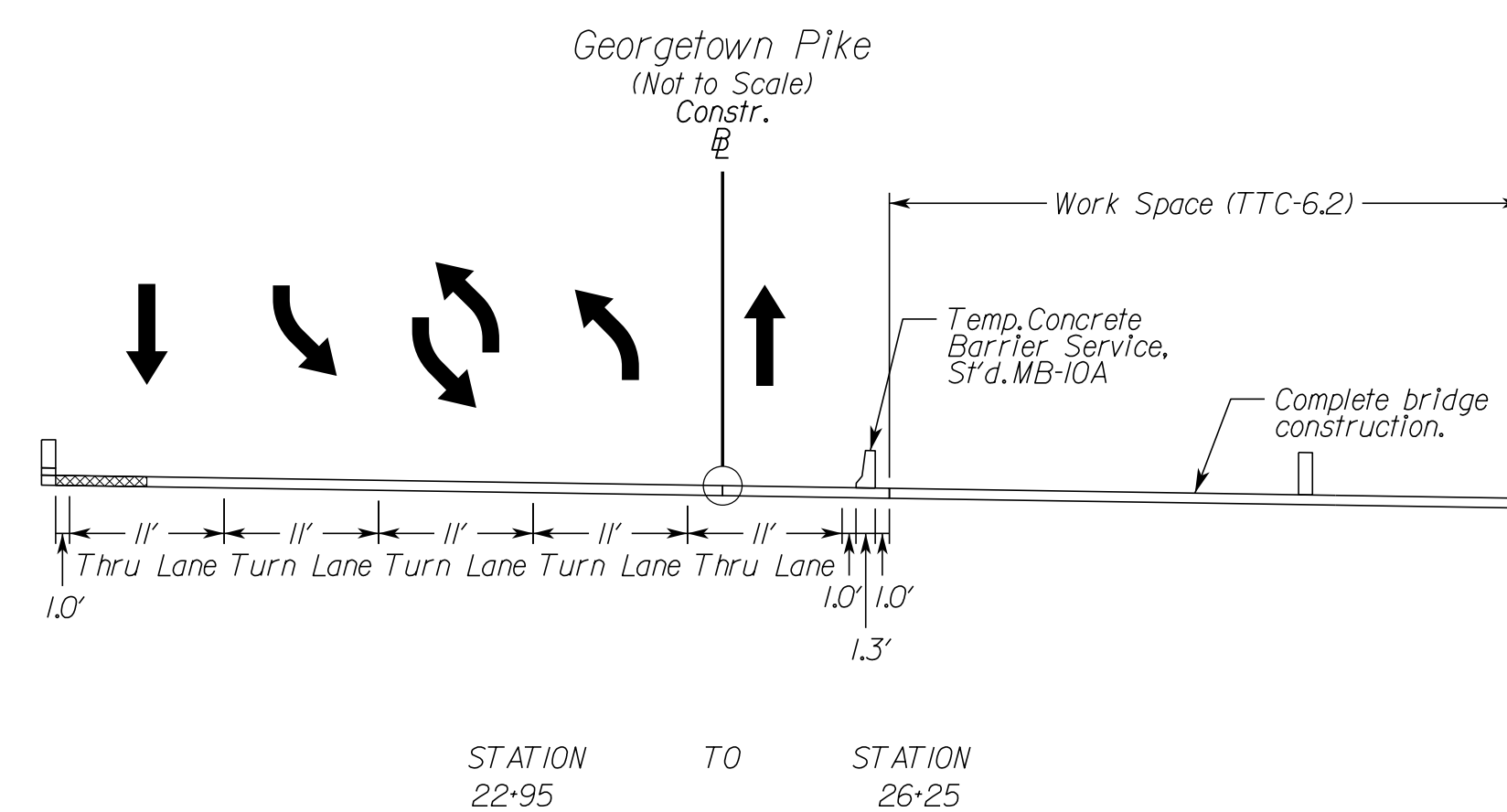
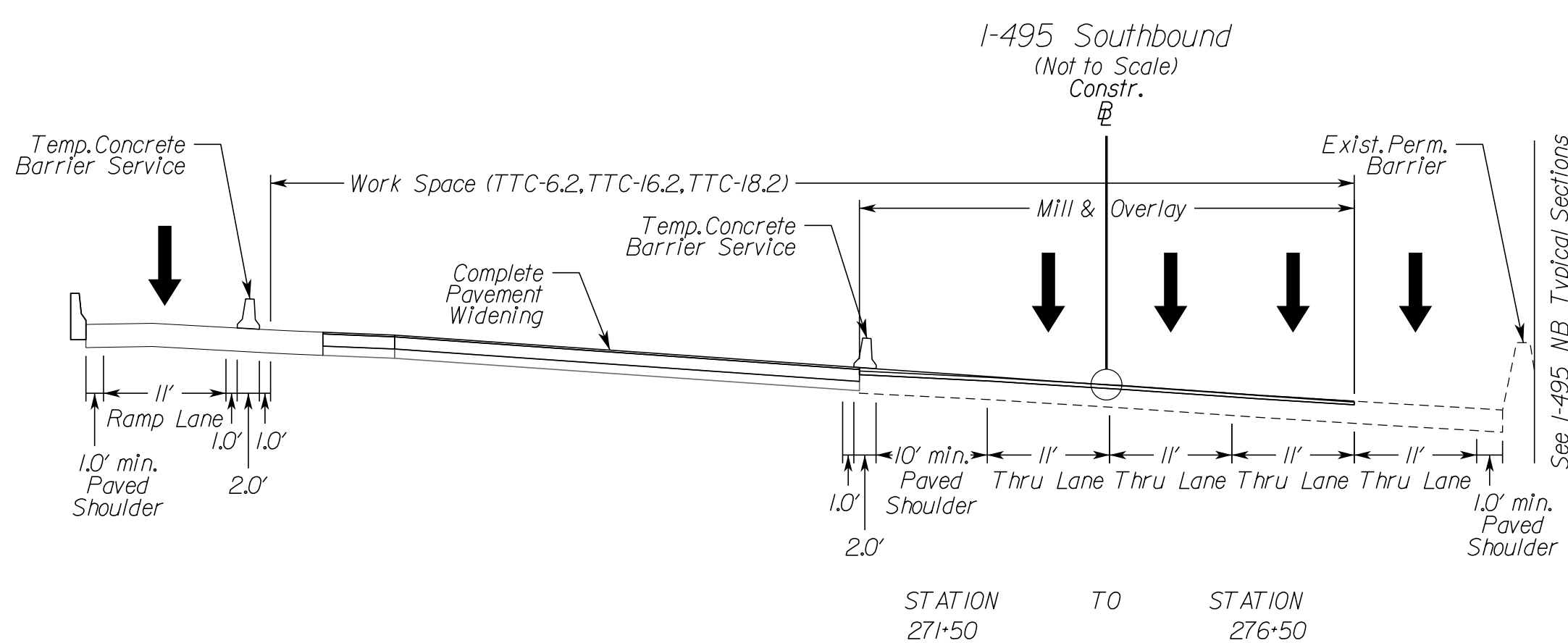
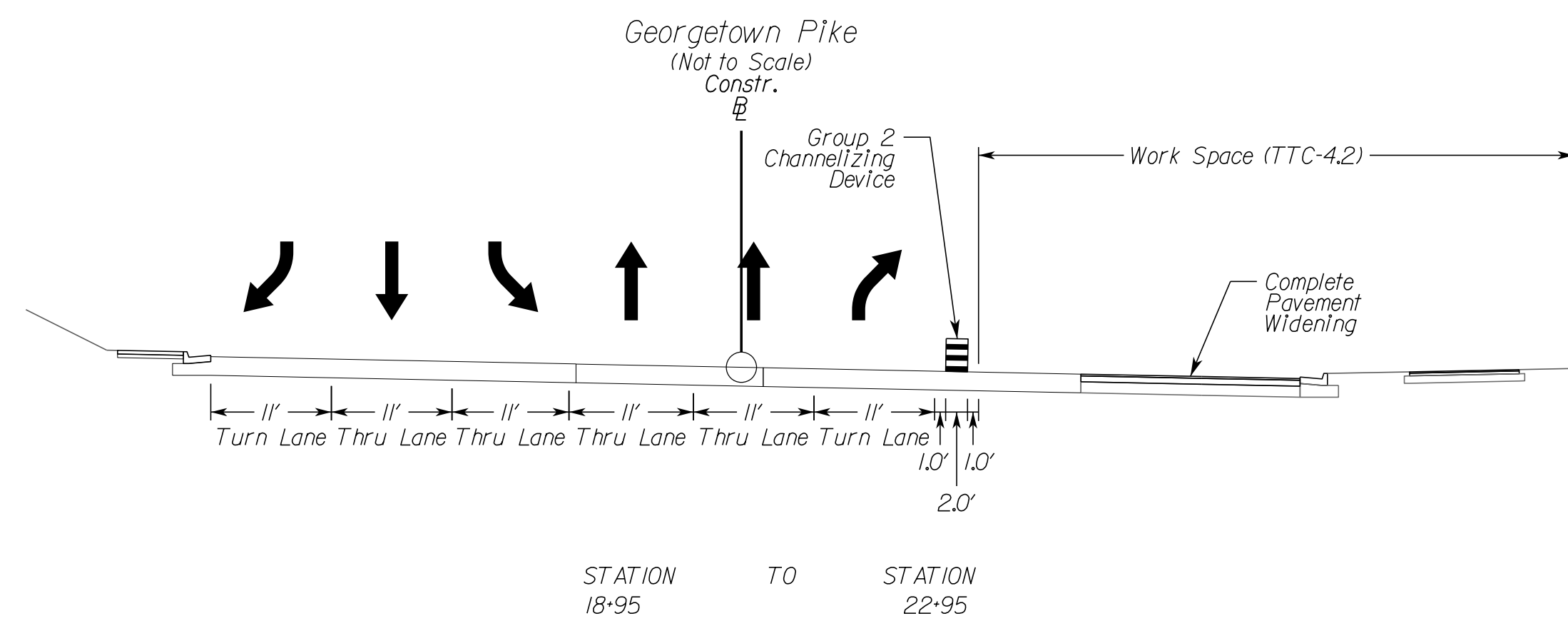
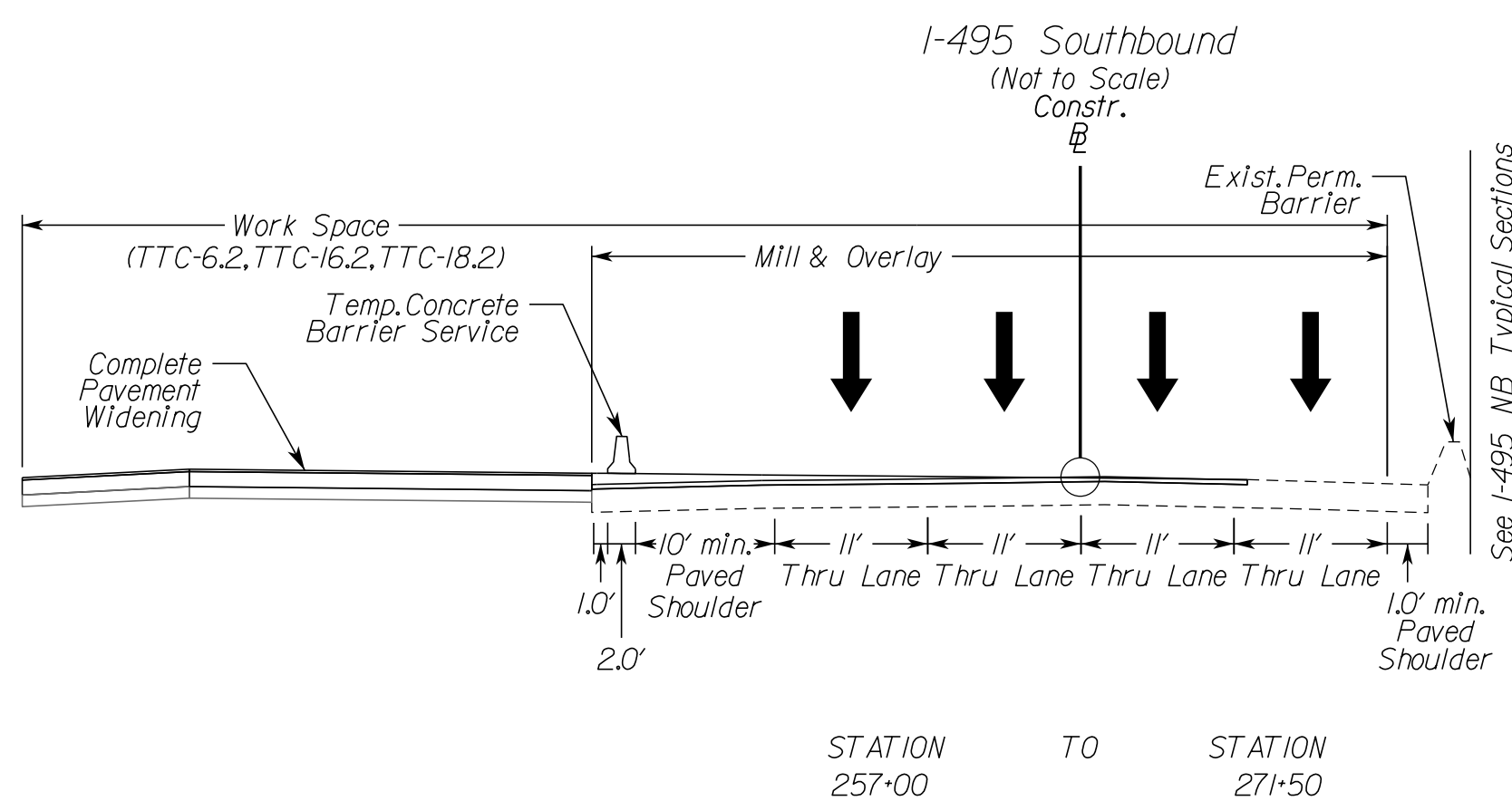
Refer to separate utility plans, under separate cover, for utility relocations associated with the project.

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

Phase ID shall tie into Phase IB of Area 2 design.

### Retaining Wall / Sound Wall Summary Table (Phase ID Construction)

Name	Baseline/Station Range
RW 8	GWMP Ramp G2I Baseline Sta. 2+66.34 to Sta. 14+92.61
RW 18	495NB Baseline Sta. 654+37.41 to Sta. 656+33.57



NOVA DISTRICT

10/6/2022

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 Accumark - Michael Taylor, LS (703) 635-3060, 12/2021

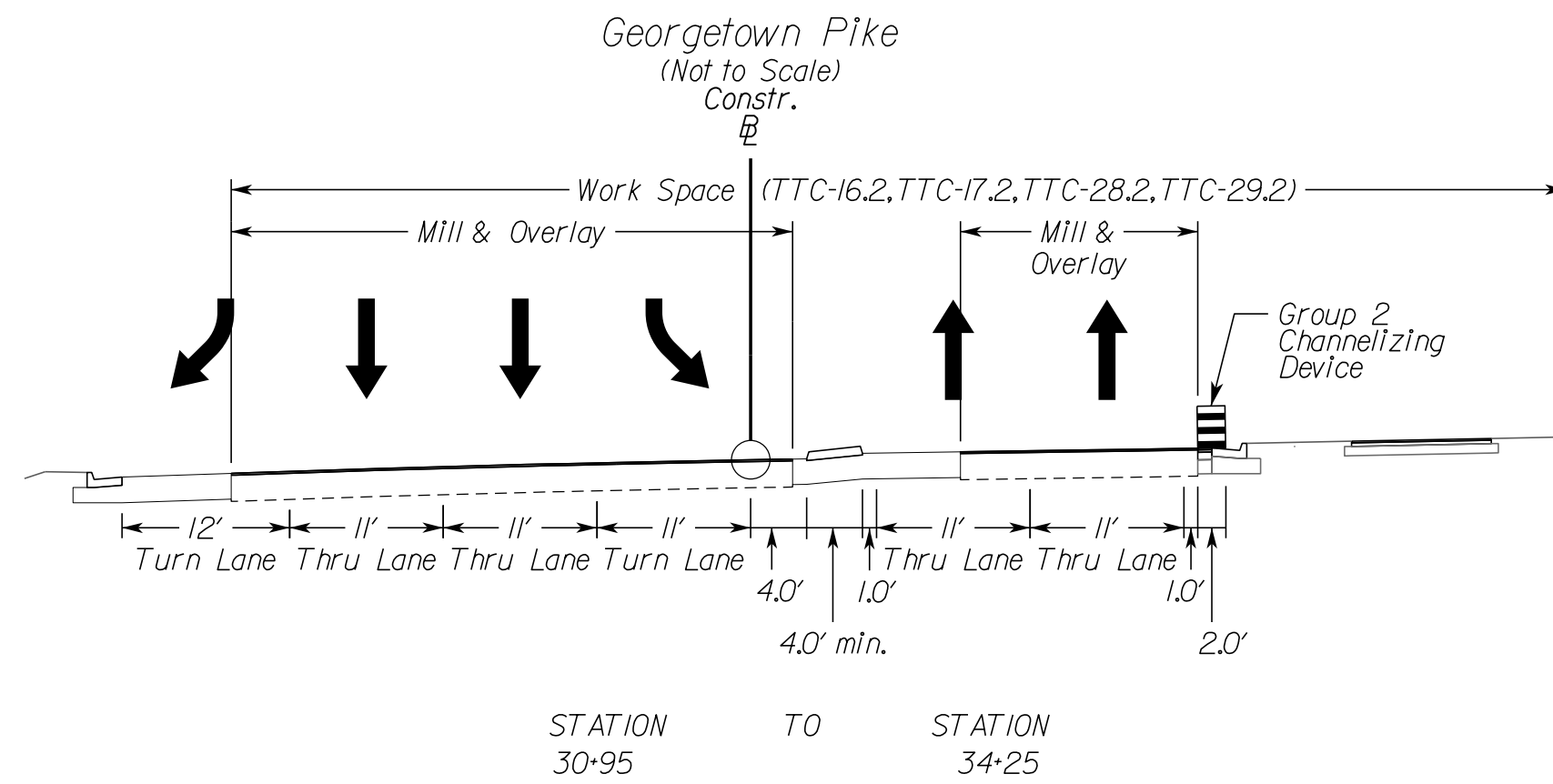
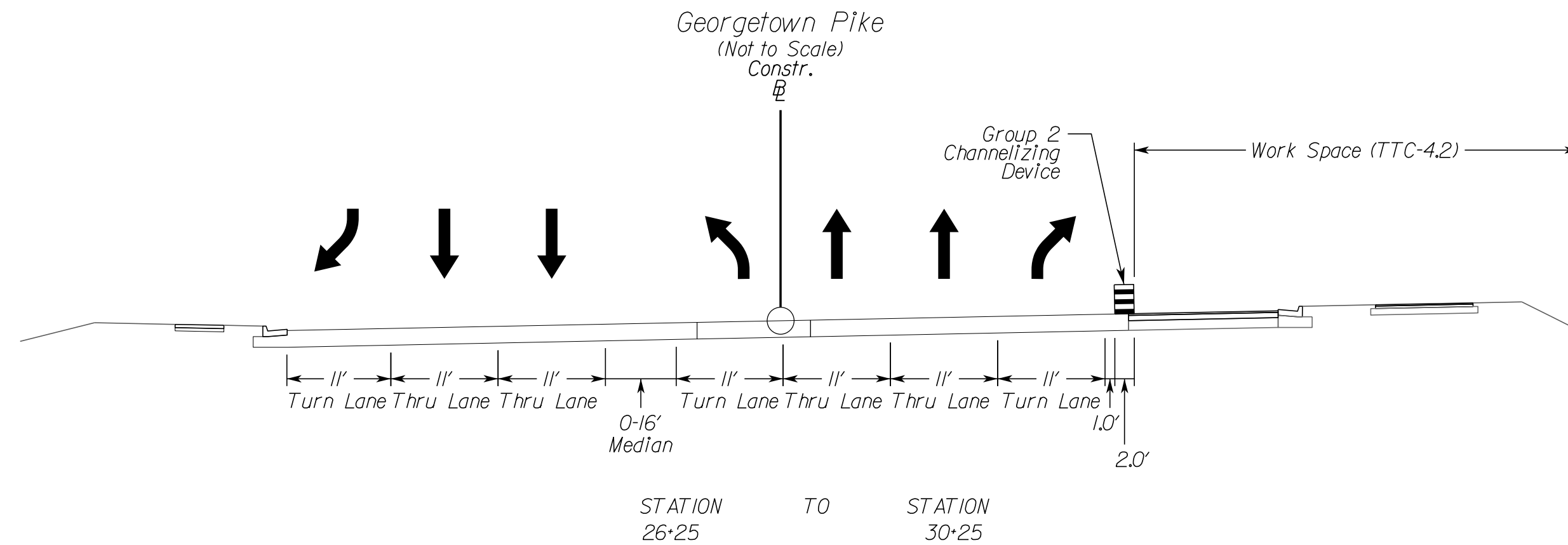
# Temporary Traffic Control Typical Sections Phase ID

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	111D12 AREA 3

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

10/6/2022

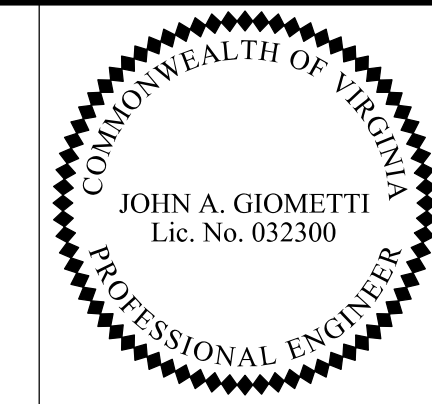
VDOT PROJECT NO. 0495-029-419	SHEET NO. 111D12 AREA 3
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APPROVED FOR CONSTRUCTION



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  
 Dewberry - Ron Jakomilich, PE, (703) 849-0651  
 SUBSURFACE UTILITY BY, DATE Accurmark - Michael Taylor, LS, (703) 635-3060, 12/2021

# 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	13(IE)1 AREA 3

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 Georgetown Pike median.

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 24, 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, 29.2, 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.

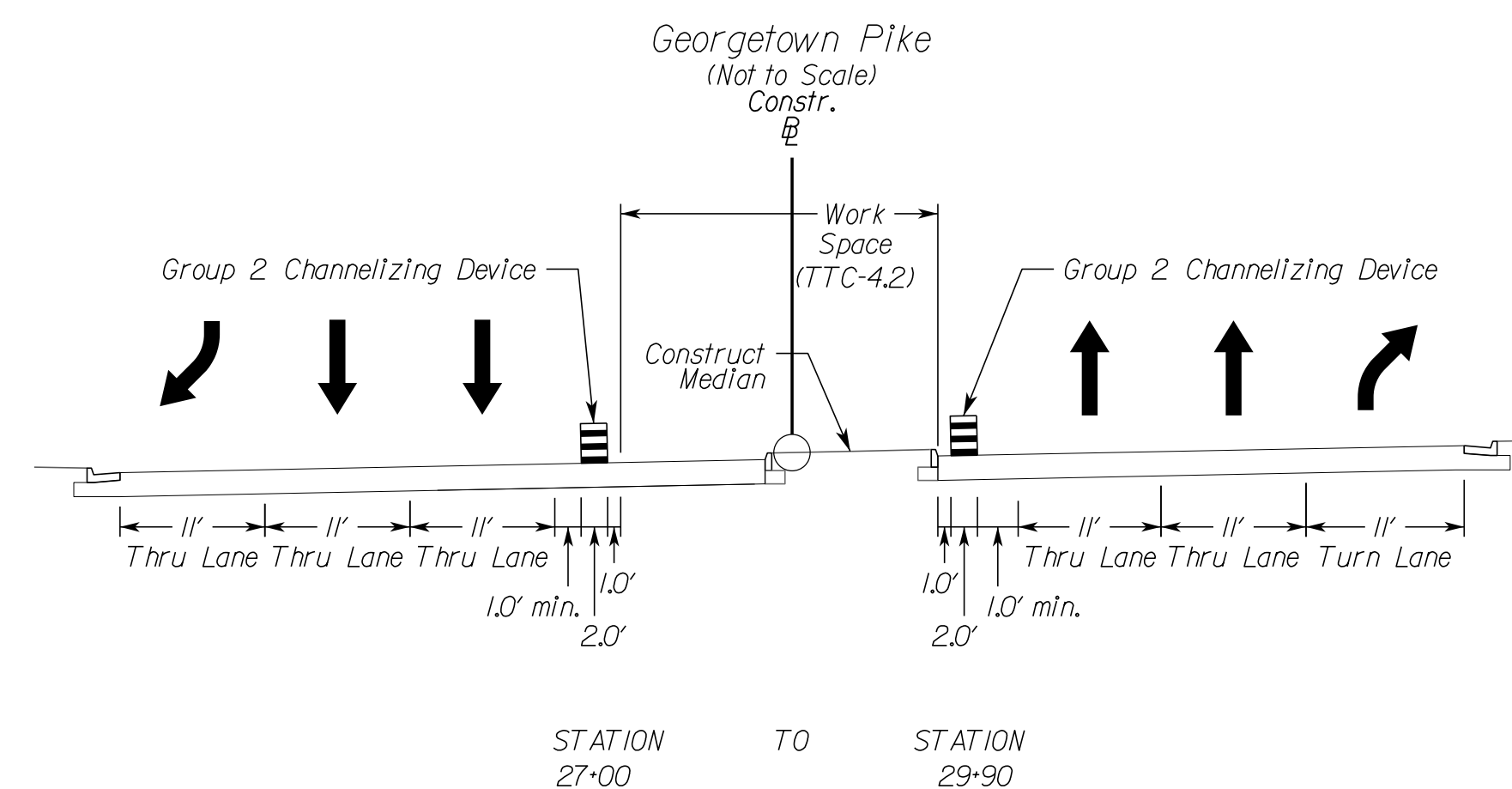
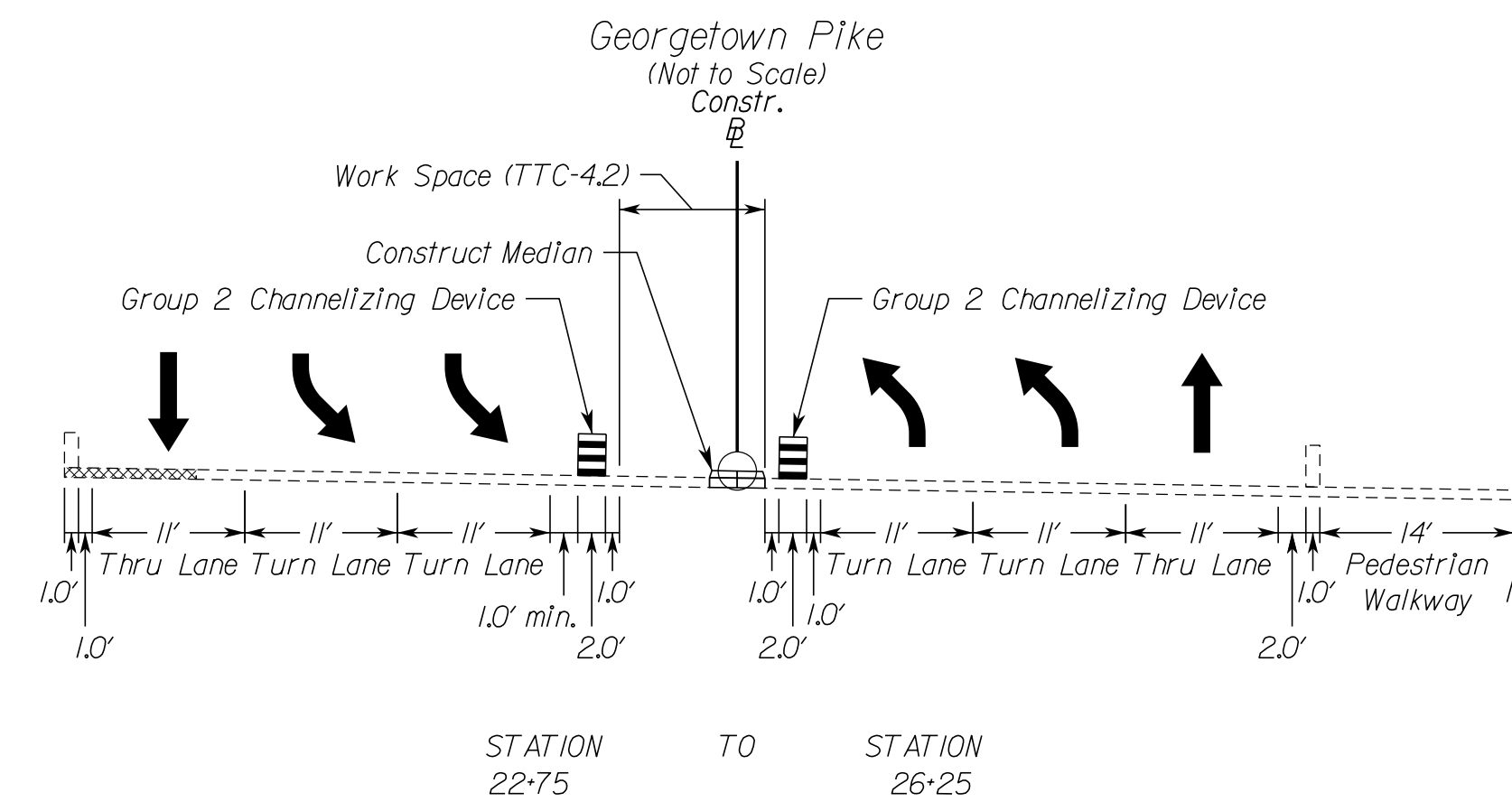
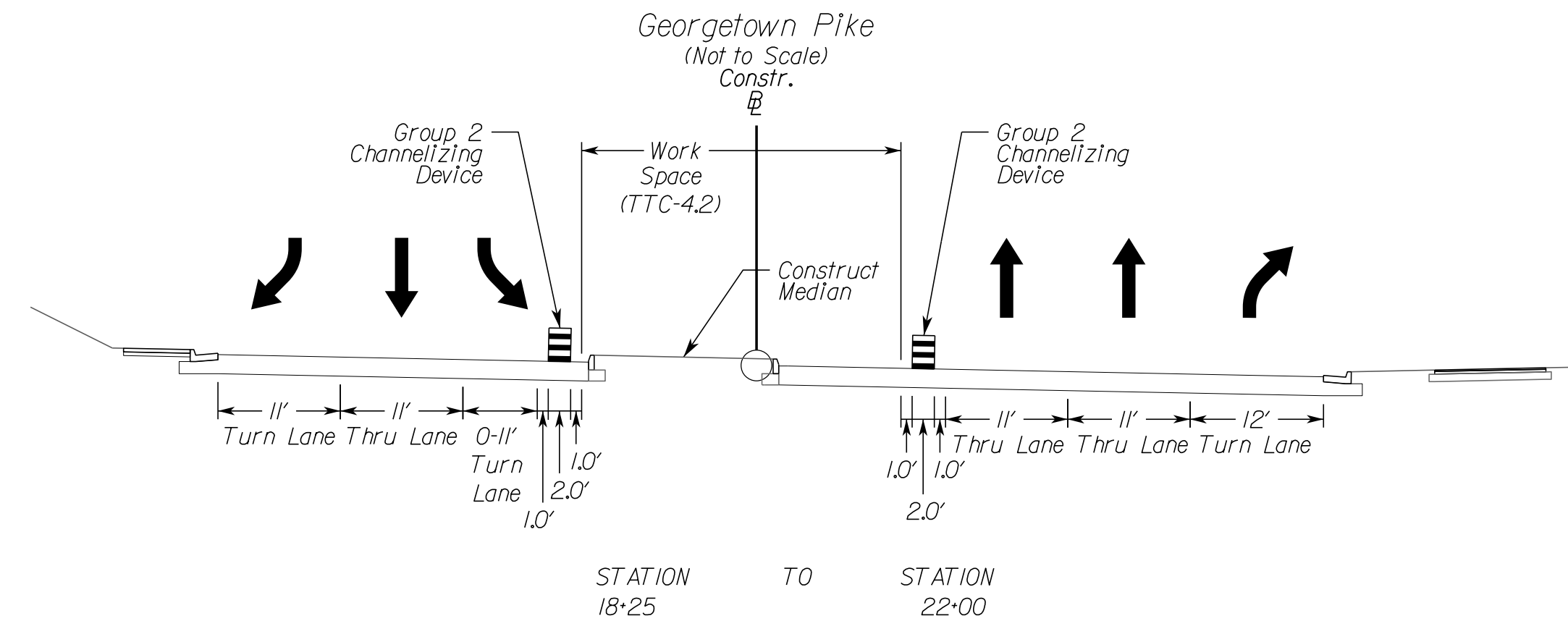
All construction entrances shown may not be open/active throughout this entire phase of construction. The Contractor has the ability to open and close construction access points, as necessary, as construction progresses. The construction entrances shown are suggested locations, and may be moved as field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

Phase IE shall tie into Phase IB of Area 2 design.



NOVA DISTRICT

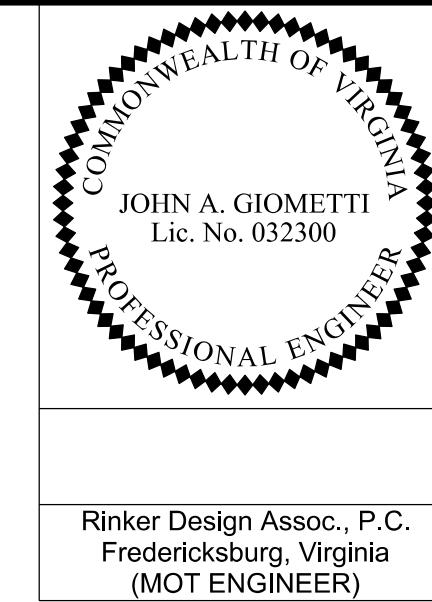
10/6/2022

VDOT PROJECT NO. 0495-029-419	SHEET NO. 13(IE)1 AREA 3
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APPROVED FOR CONSTRUCTION

PROJECT MANAGER VDOT - Rupal Shah, 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 Accumark - Mitchell Taylor, LS, (703) 635-3060, 12/2021  
 Sequence of Construction

# Temporary Traffic Control Narrative and Typical Sections Phase 2A



REVISED	STATE	ROUTE	STATE	VDOT PROJECT NO.	SHEET NO.
	VA	495		0495-029-419 C501 RW201	11(2A) AREA 3

Rinker Design Assoc., P.C.  
 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

### 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  
 - Scott's Run bridge  
 - Georgetown Pike bridge  
 - Georgetown Pike median

Construction access/workspace along Georgetown Pike for median construction will utilize off-peak inside lane closure, as necessary, to complete work.

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 11.

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-1.1, 4.2, 5.2, 6.2, 7.1, 16.2, 17.2, 18.2, 23.2, 28.2, 29.2, 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 VMAP, 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.

### Phase 2B (No graphical Plans)

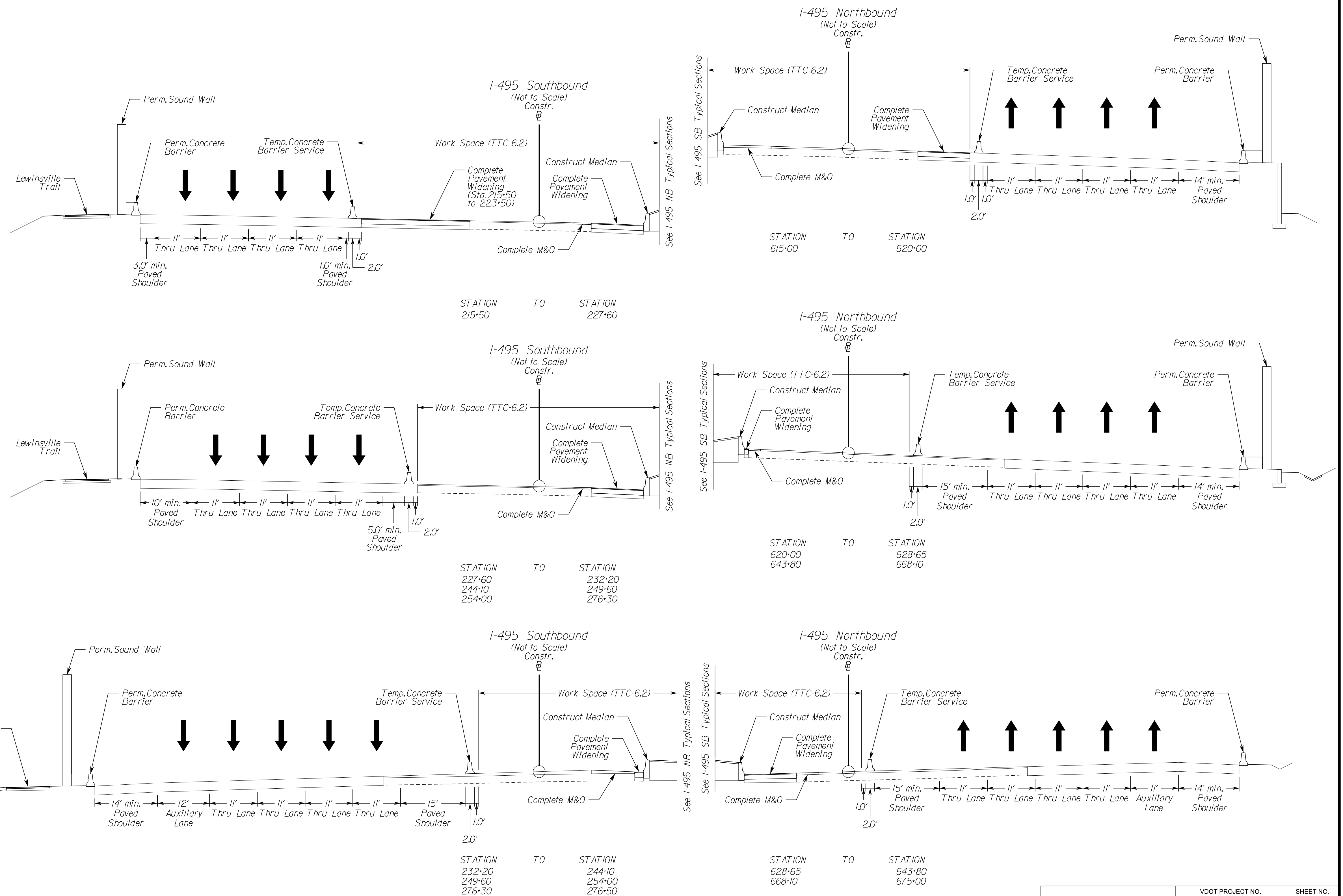
**Purpose:** Contractor to complete final surface course paving. Final completion of any remaining minor items, including, but not limited to, guardrail, drainage, traffic control devices including permanent pavement markings, the removal of long-term temporary traffic control devices and any other items 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 11.

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-1.1, 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, 29.2, 37.2, 38.2, 39.2, 53.0, 55.1, 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.



APPROVED FOR CONSTRUCTION

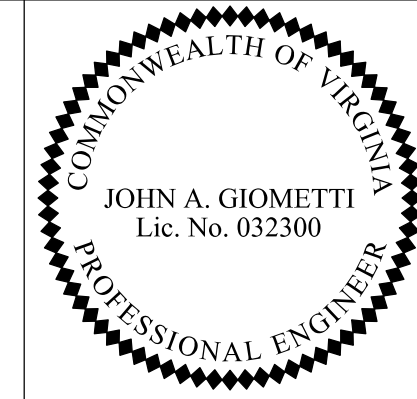
VDOT PROJECT NO. 0495-029-419	SHEET NO. 11(2A) AREA 3
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NOVA DISTRICT



PROJECT MANAGER\_VDOT - RitaPal-Straub, 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

# Temporary Traffic Control Plans Phase 1A

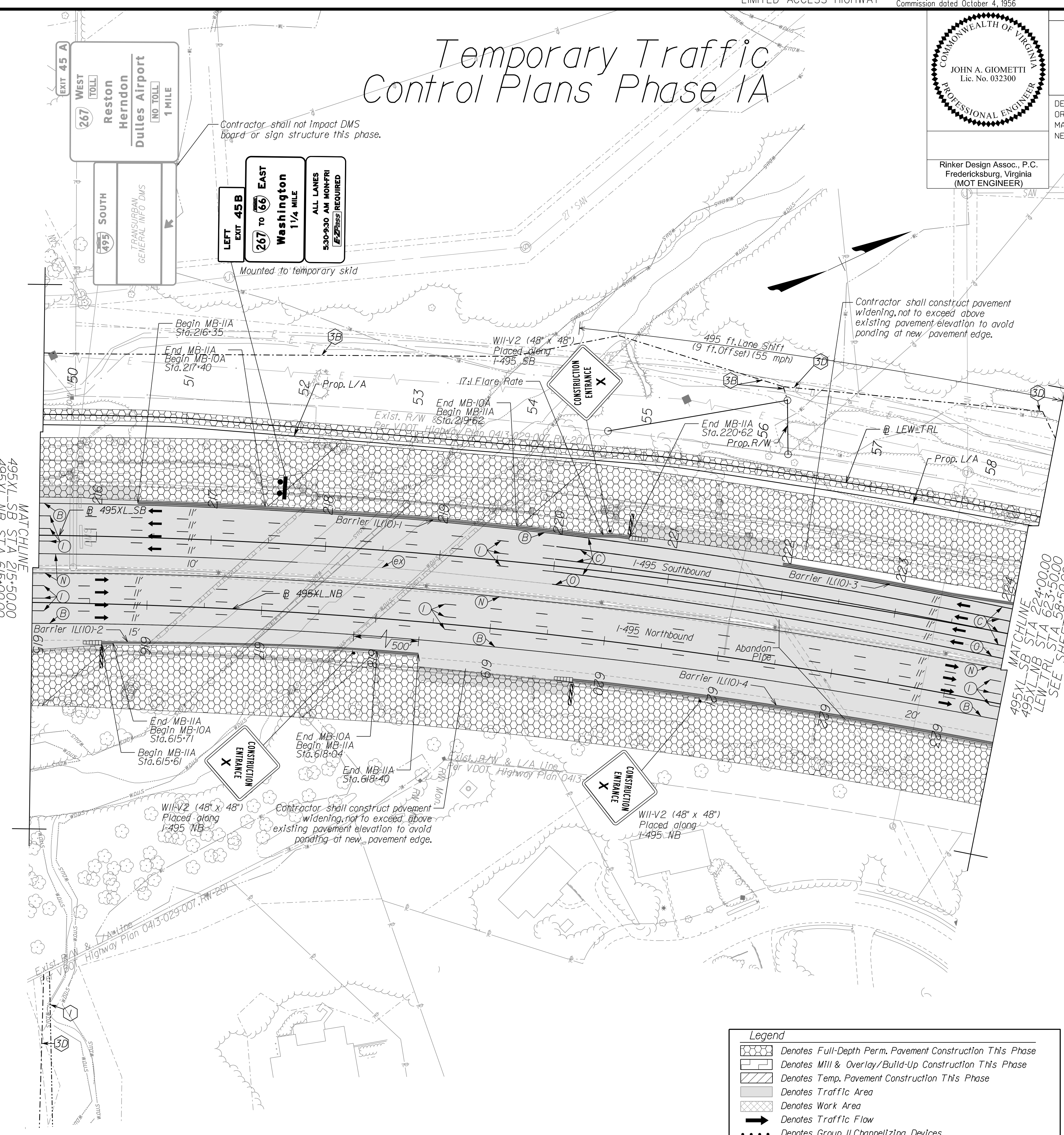


Rinker Design Assoc., P.C.  
 Fredericksburg, Virginia  
 (MOT ENGINEER)

REVISION	STATE	ROUTE	STATE	VDOT PROJECT NO.	SHEET NO.
	VA	495		0495-029-419 C501 RW201	1L(10) AREA 3

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

495XL\_SB STA 215-50.00  
 495XL\_NB STA 615-00.00  
 LEW\_TRL STA 49-75.00  
 BEGIN AREA 3  
 SEE AREA 2 PHASE 1A  
 FOR CONTINUITY



TEMPORARY BARRIER TABLE (LENGTHS ARE APPROXIMATE)

NAME	BL	BEGIN		END	
		STATION	OFFSET	STATION	OFFSET
1L(10)-1	495XL_SB	216+35	30.14' LT	220+62	31.78' LT
1L(10)-2	495XL_NB	615+61	33.89' RT	618+40	28.43' RT
1L(10)-3	495XL_SB	221+97	26.90' LT	SEE SHEET 1L(11)	
1L(10)-4	495XL_NB	619+76	37.16' RT	SEE SHEET 1L(11)	

**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. 1L(10) AREA 3
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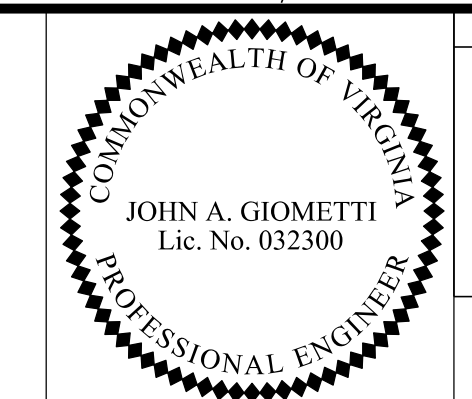
APPROVED FOR CONSTRUCTION

NOVA DISTRICT

10/16/2022



PROJECT MANAGER\_VDOT - Rita Pal-Straub, P.E. (703) 259-2362  
 SURVEYED BY, DATE\_RDA - Nicholas Kougaoullis, L.S. (703) 334-0837, 1/2019  
 DESIGN BY\_RDA - Darrell Fischer, P.E. (703) 334-0823  
 Dewberry - Ron Jakomajlich, P.E. (703) 849-0651  
 SUBSURFACE UTILITY BY, DATE\_Accurmark - Michael Taylor, L.S. (703) 635-3060, 12/2021



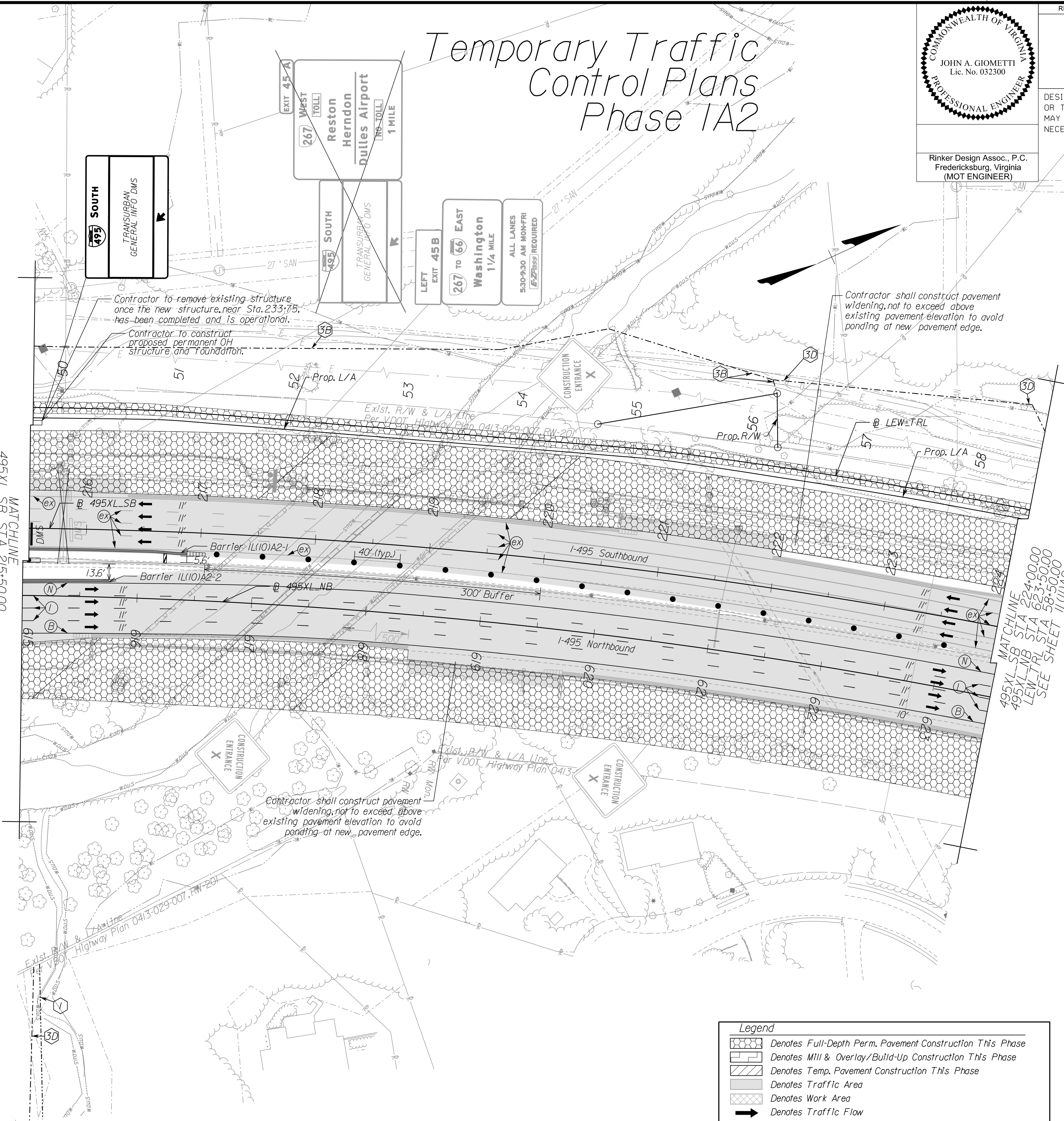
Rinker Design Assoc., P.C.  
 Fredericksburg, Virginia  
 (MOT ENGINEER)

REVISION	STATE	ROUTE	STATE	VDOT PROJECT NO.	SHEET NO.
	VA.	495		0495-029-419 C501 RW201	1L101A2 AREA 3

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

495XL\_SB STA 215+50.00  
 495XL\_NB STA 615+00.00  
 LEW\_TRL STA 49+75.00  
 BEGIN AREA 3  
 SEE AREA 2 PHASE 1A2  
 FOR CONTINUITY



TEMPORARY BARRIER TABLE (LENGTHS ARE APPROXIMATE)

NAME	BL	BEGIN		END	
		STATION	OFFSET	STATION	OFFSET
1L(10)A2-1	495XL_SB	SEE SHEET 1L(09)		216+89	18.64' RT
1L(10)A2-2	495XL_NB	SEE SHEET 1L(09)		615+75	14.37' LT

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. 1L101A2 AREA 3
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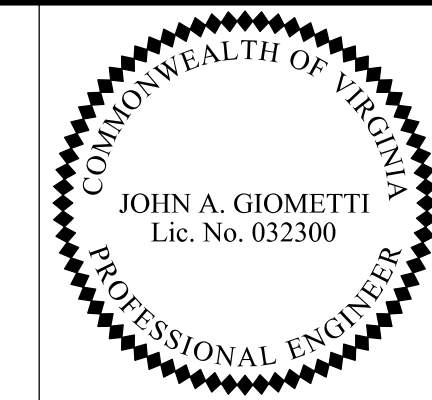
APPROVED FOR CONSTRUCTION

NOVA DISTRICT



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

# Temporary Traffic Control Plans Phase 1A3



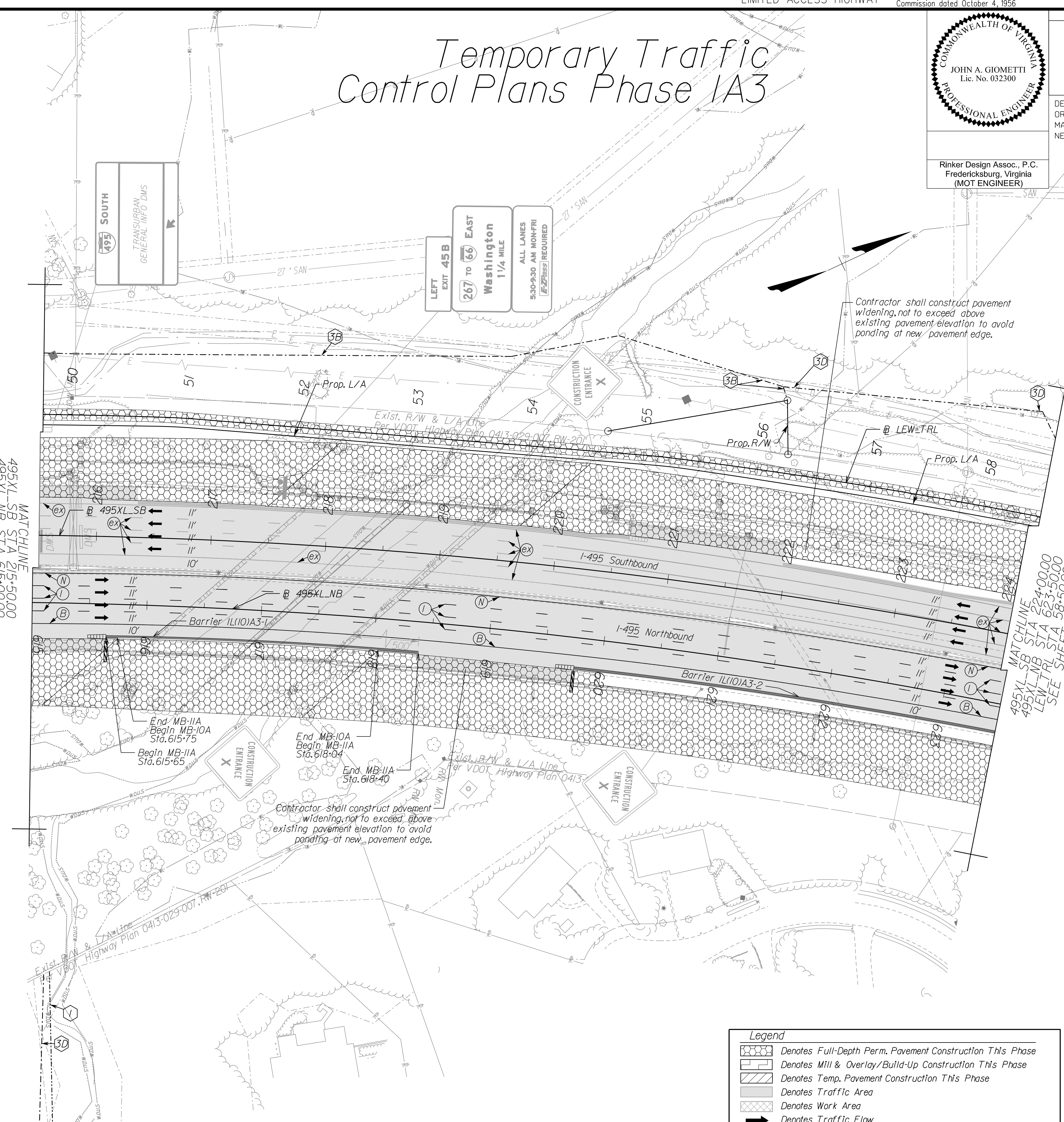
Rinker Design Assoc., P.C.  
Fredericksburg, Virginia  
(MOT ENGINEER)

REVISED	STATE	ROUTE	STATE	VDOT PROJECT NO.	SHEET NO.
	VA.	495		0495-029-419 C501 RW201	1L(10)A3 AREA 3

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

495XL\_SB STA 215+50.00  
495XL\_NB STA 615+00.00  
LEW\_TRL STA 49+75.00  
BEGIN AREA 3  
SEE AREA 2 PHASE 1A3  
FOR CONTINUITY

495XL\_SB STA 224+00.00  
495XL\_NB STA 625+50.00  
LEW\_TRL STA 58+50.00  
SEE SHEET 1L(11)A3



NAME	BL	BEGIN		END	
		STATION	OFFSET	STATION	OFFSET
1L(10)A3-1	495XL_NB	615+65	28.46' RT	618+40	26.75' RT
1L(10)A3-2	495XL_NB	619+76	26.55' RT	SEE SHEET 1L(11)A3	

(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 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. 1L(10)A3 AREA 3
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APPROVED FOR CONSTRUCTION

NOVA DISTRICT



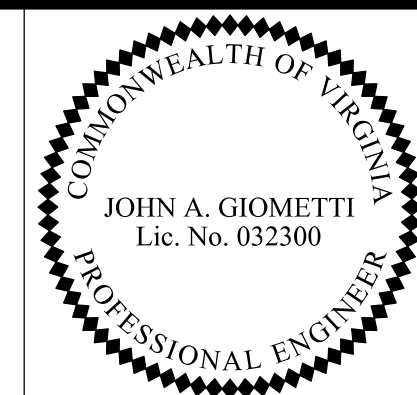




PROJECT MANAGER\_VDOT - Rupal Shah, PE, (703) 259-2362  
 SURVEYED BY, DATE\_RDA - Nicholas Kougaull, LS, (703) 334-0837, 1/2019  
 DESIGN BY\_RDA - Darrell Fischer, PE, (703) 334-0823  
 SUBSURFACE UTILITY BY, DATE\_Accumark - Michael Taylor, LS, (703) 635-3060, 12/2021

TEMPORARY BARRIER TABLE (LENGTHS ARE APPROXIMATE)					
NAME	BL	BEGIN		END	
		STATION	OFFSET	STATION	OFFSET
1L(11)A2-1	495XL_SB	233+05	15.50' RT	235+12	16.14' RT
1L(11)A2-2	495XL_NB	631+72	25.40' LT	633+81	24.71' LT

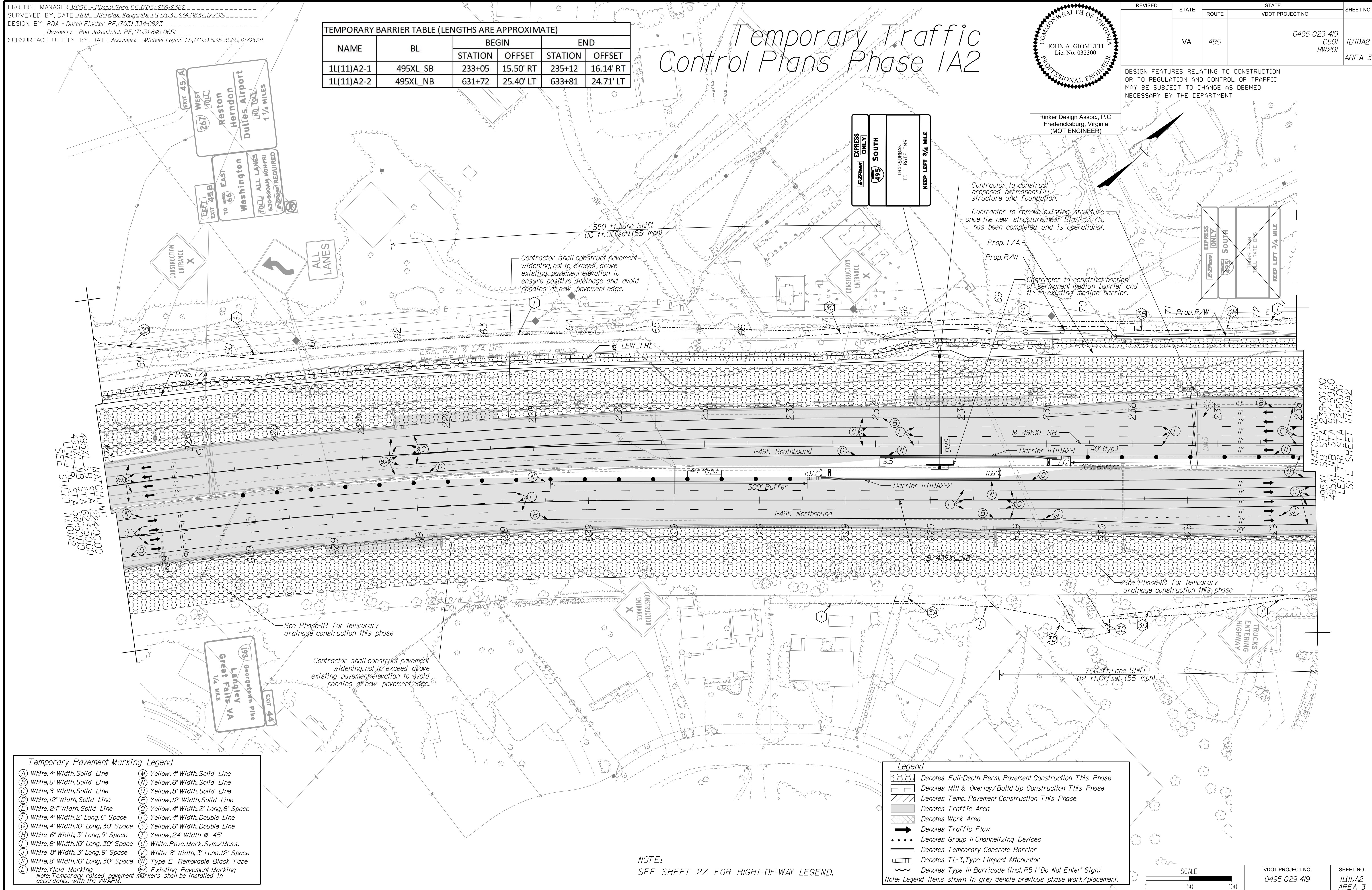
# Temporary Traffic Control Plans Phase 1A2



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	IL11A2 AREA 3

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. IL11A2 AREA 3
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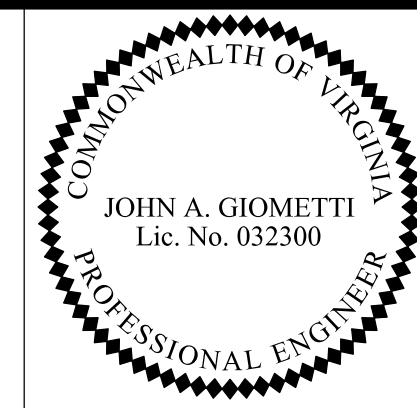
APPROVED FOR CONSTRUCTION



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 BARRIER TABLE (LENGTHS ARE APPROXIMATE)					
NAME	BL	BEGIN		END	
		STATION	OFFSET	STATION	OFFSET
1L(11)A3-1	495XL_NB	SEE SHEET 1L(10)A3		625+89	23.15' RT
1L(11)A3-2	495XL_SB	228+60	32.04' LT	233+47	32.82' LT
1L(11)A3-3	495XL_NB	627+10	22.24' RT	632+40	24.15' RT
1L(11)A3-4	495XL_NB	632+71	34.45' LT	633+67	36.63' LT
1L(11)A3-5	495XL_SB	234+83	31.69' LT	SEE SHEET 1L(12)A3	
1L(11)A3-6	495XL_NB	633+60	23.34' RT	SEE SHEET 1L(12)A3	

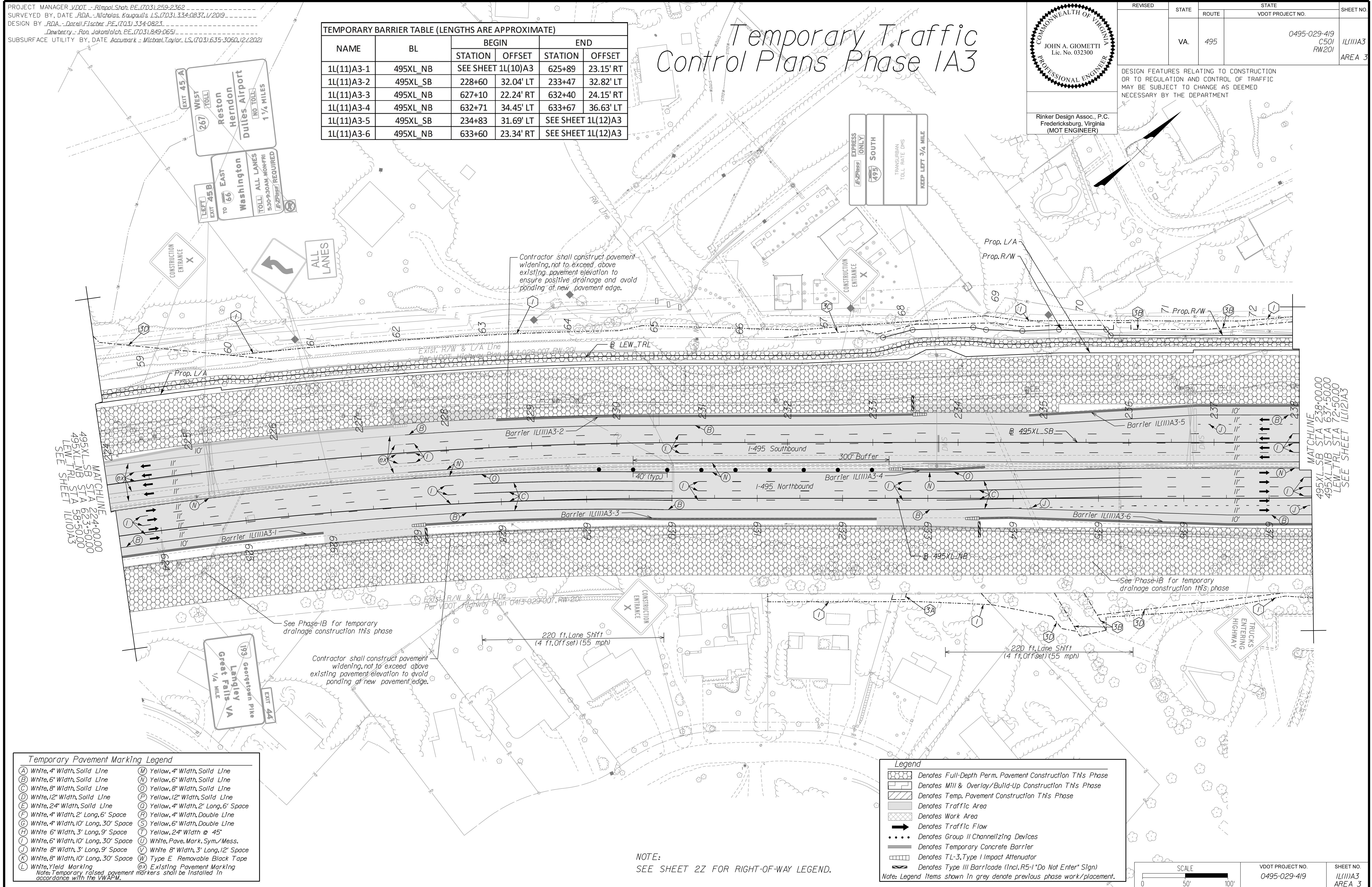
# Temporary Traffic Control Plans Phase 1A3



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	IL(11)A3 AREA 3

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 2Z FOR RIGHT-OF-WAY LEGEND.

SCALE 0 50' 100'	VDOT PROJECT NO. 0495-029-419	SHEET NO. IL(11)A3 AREA 3
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APPROVED FOR CONSTRUCTION

NOVA DISTRICT

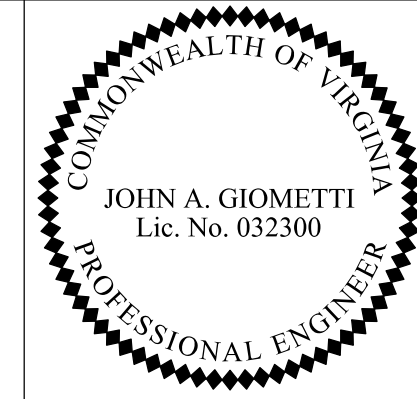
10/16/2022



PROJECT MANAGER\_VDOT - Rinaldi, S. PE, (703) 259-2362  
 SURVEYED BY, DATE\_RDA - Nicholas, K. (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

NAME	BL	BEGIN		END	
		STATION	OFFSET	STATION	OFFSET
1L(12)-1	495XL_SB	SEE SHEET 1L(11)	240+24	240+24	46.46' LT
1L(12)-2	495XL_NB	SEE SHEET 1L(11)	642+56	642+56	44.47' RT
1L(12)-3	495XL_SB	241+60	42.75' LT	247+48	49.68' LT
1L(12)-4	495XL_NB	643+40	28.38' RT	SEE SHEET 1L(13)	
1L(12)-5	495XL_SB	247+44	24.50' LT	SEE SHEET 1L(13)	
1L(12)-6	GTP_RMP_SW	15+04	40.89' RT	SEE SHEET 1L(13)	
1L(12)-7	GTP_RMP_SE	10+12	21.41' LT	SEE SHEET 1L(13)	

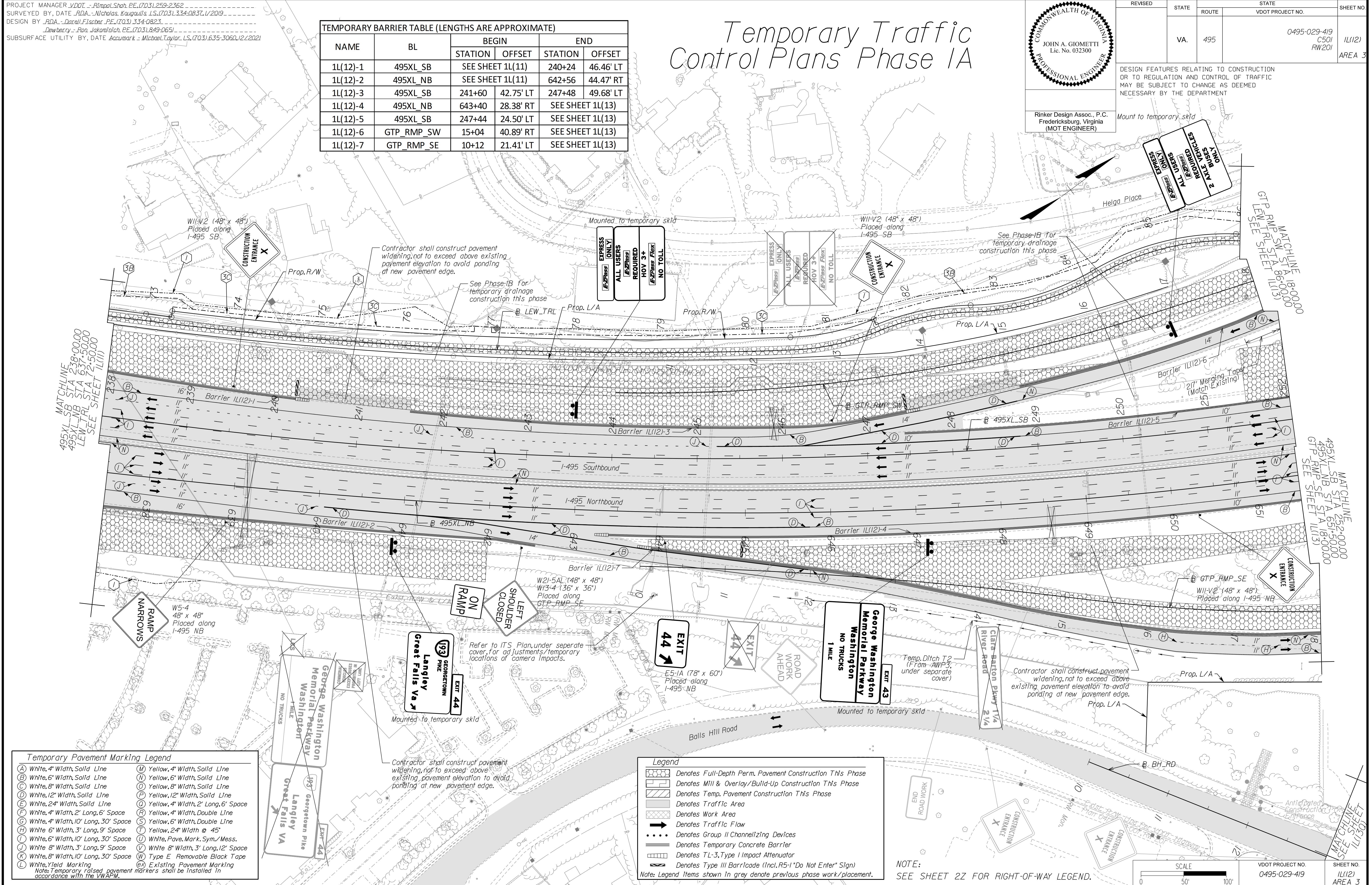
# Temporary Traffic Control Plans Phase 1A



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(12) AREA 3

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 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
[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.

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

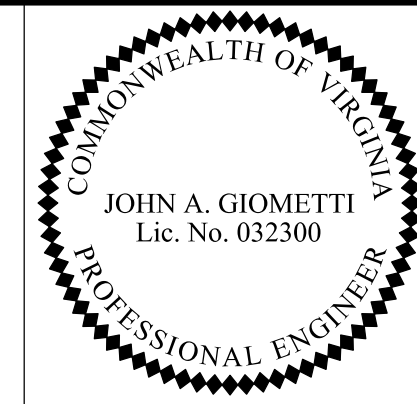
SCALE	VDOT PROJECT NO.	SHEET NO.
0 50' 100'	0495-029-419	1L(12) AREA 3

APPROVED FOR CONSTRUCTION



PROJECT MANAGER\_VDOT - Rupal Shah, PE, (703) 259-2362  
 SURVEYED BY, DATE\_RDA - Nicholas Kougaull, 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

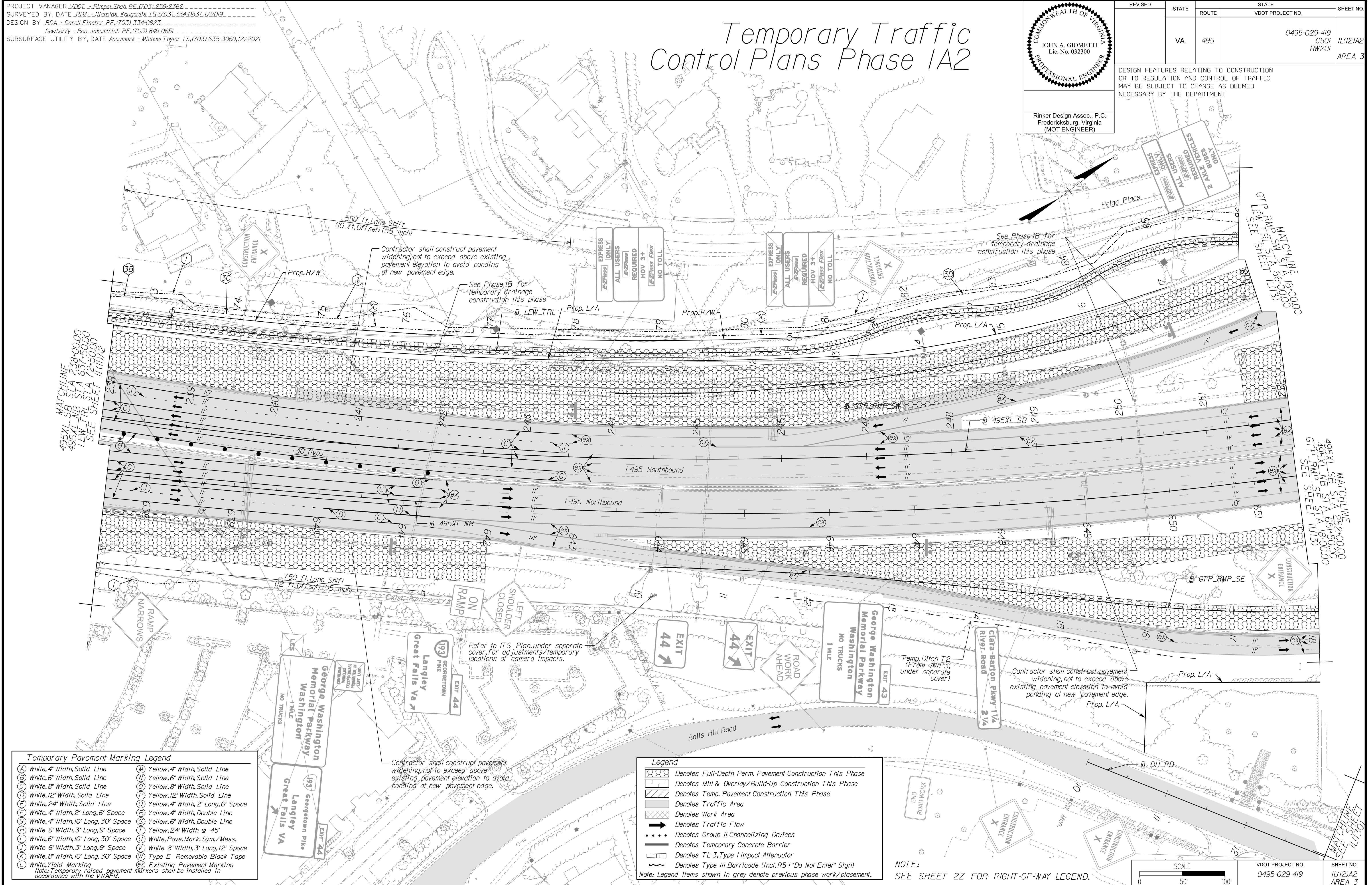
# Temporary Traffic Control Plans Phase 1A2



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	11/12IA2 AREA 3

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 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

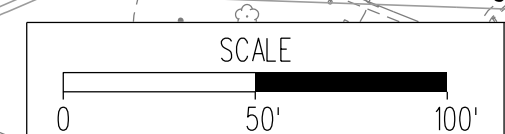
Note: Temporary raised pavement markers shall be installed in accordance with the VMAP.

**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.



VDOT PROJECT NO.	SHEET NO.
0495-029-419	11/12IA2 AREA 3

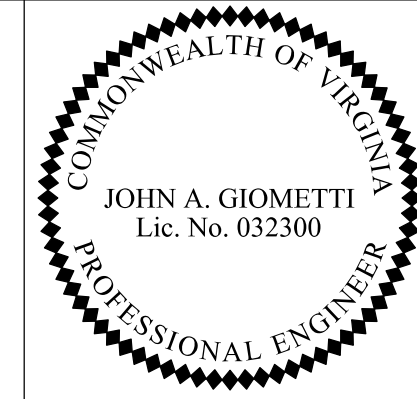
APPROVED FOR CONSTRUCTION



PROJECT MANAGER\_VDOT - Rinaldi, S.H., 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 BARRIER TABLE (LENGTHS ARE APPROXIMATE)					
NAME	BL	BEGIN		END	
		STATION	OFFSET	STATION	OFFSET
1L(12)A3-1	495XL_SB	SEE SHEET 1L(11)A3	240+24	41.95'	LT
1L(12)A3-2	495XL_NB	SEE SHEET 1L(11)A3	641+32	38.97'	RT
1L(12)A3-3	495XL_SB	241+60	39.78' LT	243+39	37.66' LT

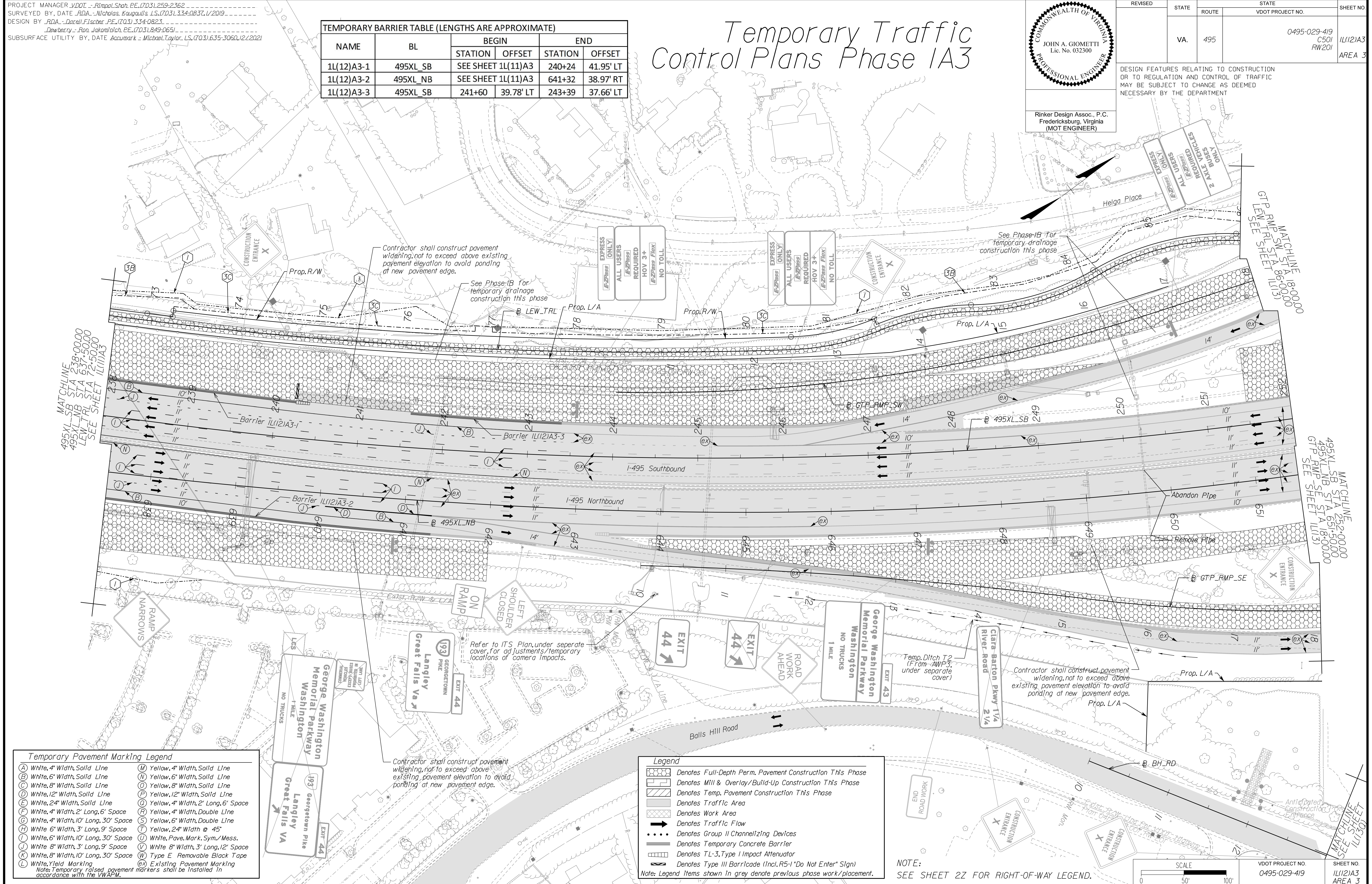
# Temporary Traffic Control Plans Phase 1A3



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(12)A3 AREA 3

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 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
[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.

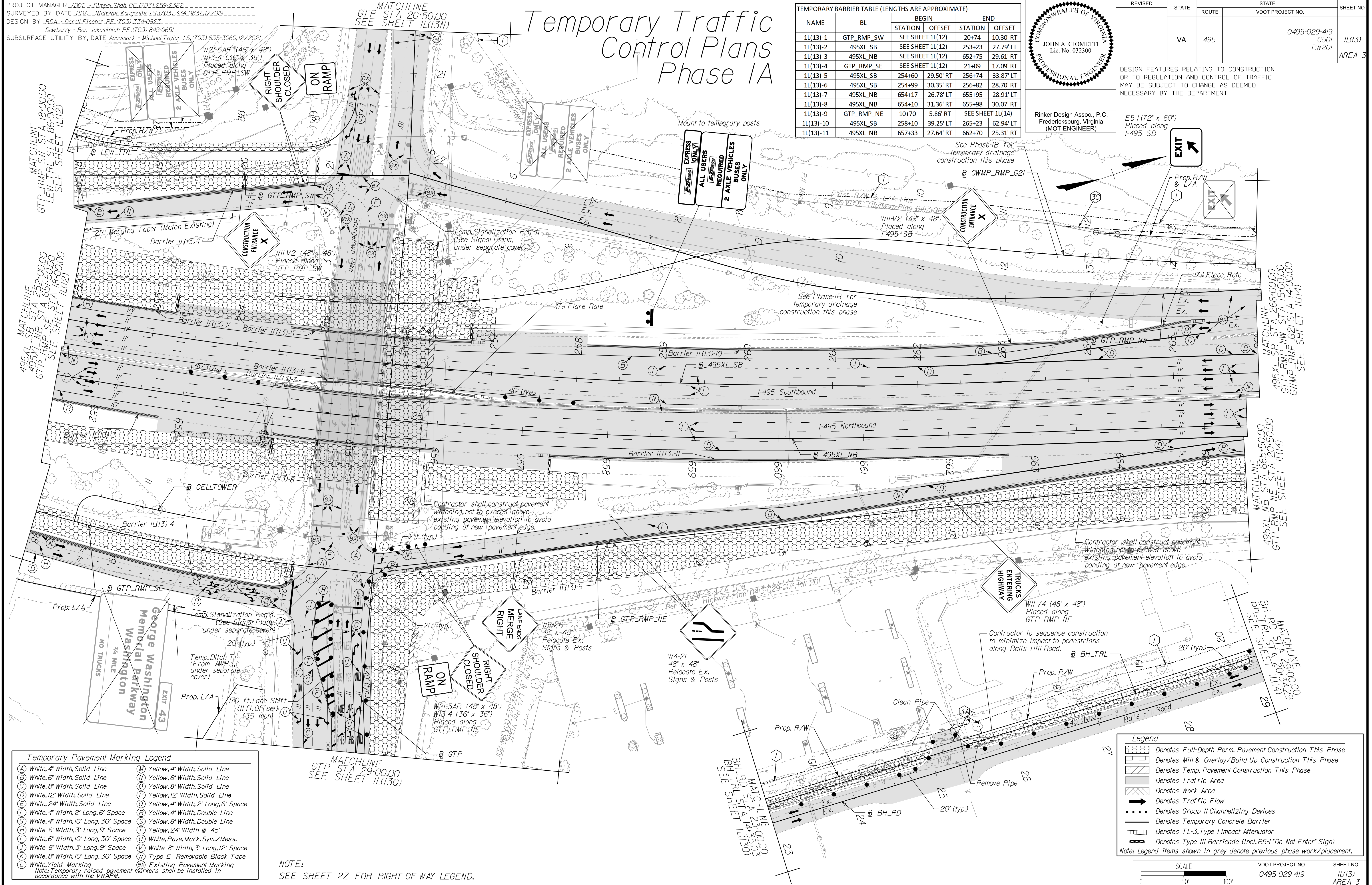
NOTE: SEE SHEET 22 FOR RIGHT-OF-WAY LEGEND.

SCALE 0 50' 100'	VDOT PROJECT NO. 0495-029-419	SHEET NO. 1L(12)A3 AREA 3
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APPROVED FOR CONSTRUCTION

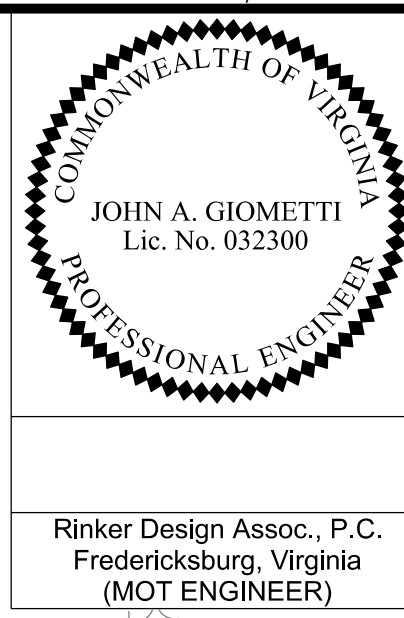


PROJECT MANAGER\_VDOT - Rita Pal...  
 SURVEYED BY, DATE\_RDA - Nicholas...  
 DESIGN BY\_RDA - Darrell Fischer...  
 SUBSURFACE UTILITY BY, DATE\_Accumark - Michael Taylor...



# Temporary Traffic Control Plans Phase IA

NAME	BL	STATION	OFFSET	STATION	OFFSET
1L(13)-1	GTP_RMP_SW	SEE SHEET 1L(12)	20+74	10.30'	RT
1L(13)-2	495XL_SB	SEE SHEET 1L(12)	253+23	27.79'	LT
1L(13)-3	495XL_NB	SEE SHEET 1L(12)	652+75	29.61'	RT
1L(13)-4	GTP_RMP_SE	SEE SHEET 1L(12)	21+09	17.09'	RT
1L(13)-5	495XL_SB	254+60	29.50'	RT	33.87'
1L(13)-6	495XL_SB	254+99	30.35'	RT	28.70'
1L(13)-7	495XL_NB	654+17	26.78'	LT	655+95
1L(13)-8	495XL_NB	654+10	31.36'	RT	655+98
1L(13)-9	GTP_RMP_NE	10+70	5.86'	RT	SEE SHEET 1L(14)
1L(13)-10	495XL_SB	258+10	39.25'	LT	265+23
1L(13)-11	495XL_NB	657+33	27.64'	RT	662+70



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(13) AREA 3

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

E5-1 (72" x 60")  
 Placed along I-495 SB

(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.

[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 Line]	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. 1L(13) AREA 3
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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, 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

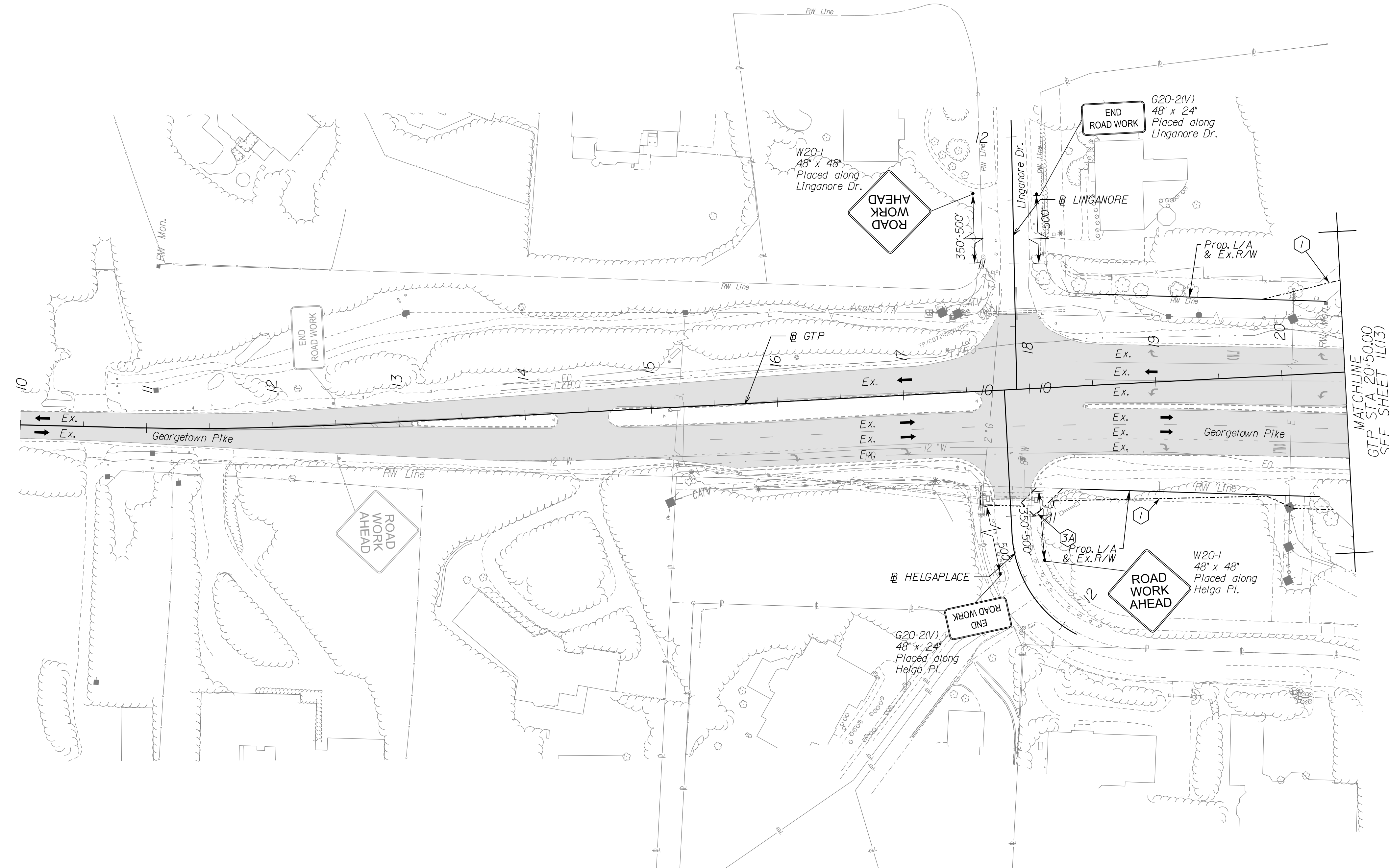
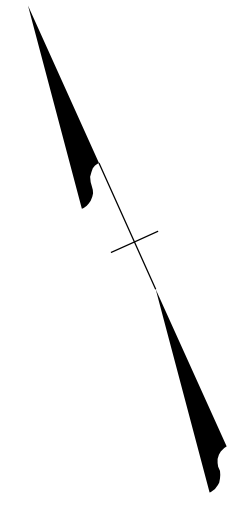
# Temporary Traffic Control Plans Phase 1A

JOHN A. GIOMETTI  
Lic. No. 032300

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

REVISED	STATE	ROUTE	STATE PROJECT NO.	SHEET NO.
	VA.	495	0495-029-419 C501 RW201	1L(13N) AREA 3

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



MATCHLINE  
GTP STA 20+50.00  
SEE SHEET 1L(13)

**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
(M) 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. 1L(13N) AREA 3
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APPROVED FOR CONSTRUCTION

NOVA DISTRICT

10/6/2022



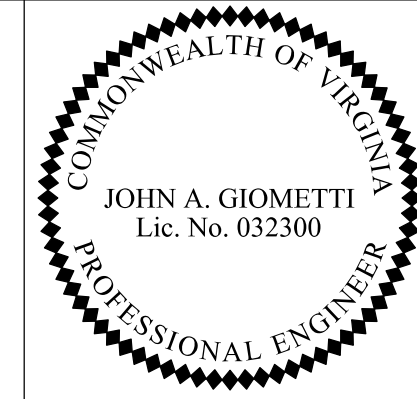




PROJECT MANAGER\_VDOT - Rupal Shah, P.E. (703) 259-2362  
 SURVEYED BY, DATE\_RDA - Nicholas Kaugaulis, LS (703) 334-0837, 1/2019  
 DESIGN BY\_RDA - Darrell Fischer, P.E. (703) 334-0823  
 Dewberry - Ron Jakomilich, P.E. (703) 849-0651  
 SUBSURFACE UTILITY BY, DATE\_Accurmark - Michael Taylor, LS (703) 635-3060, 12/2021

# Temporary Traffic Control Plans Phase 1A

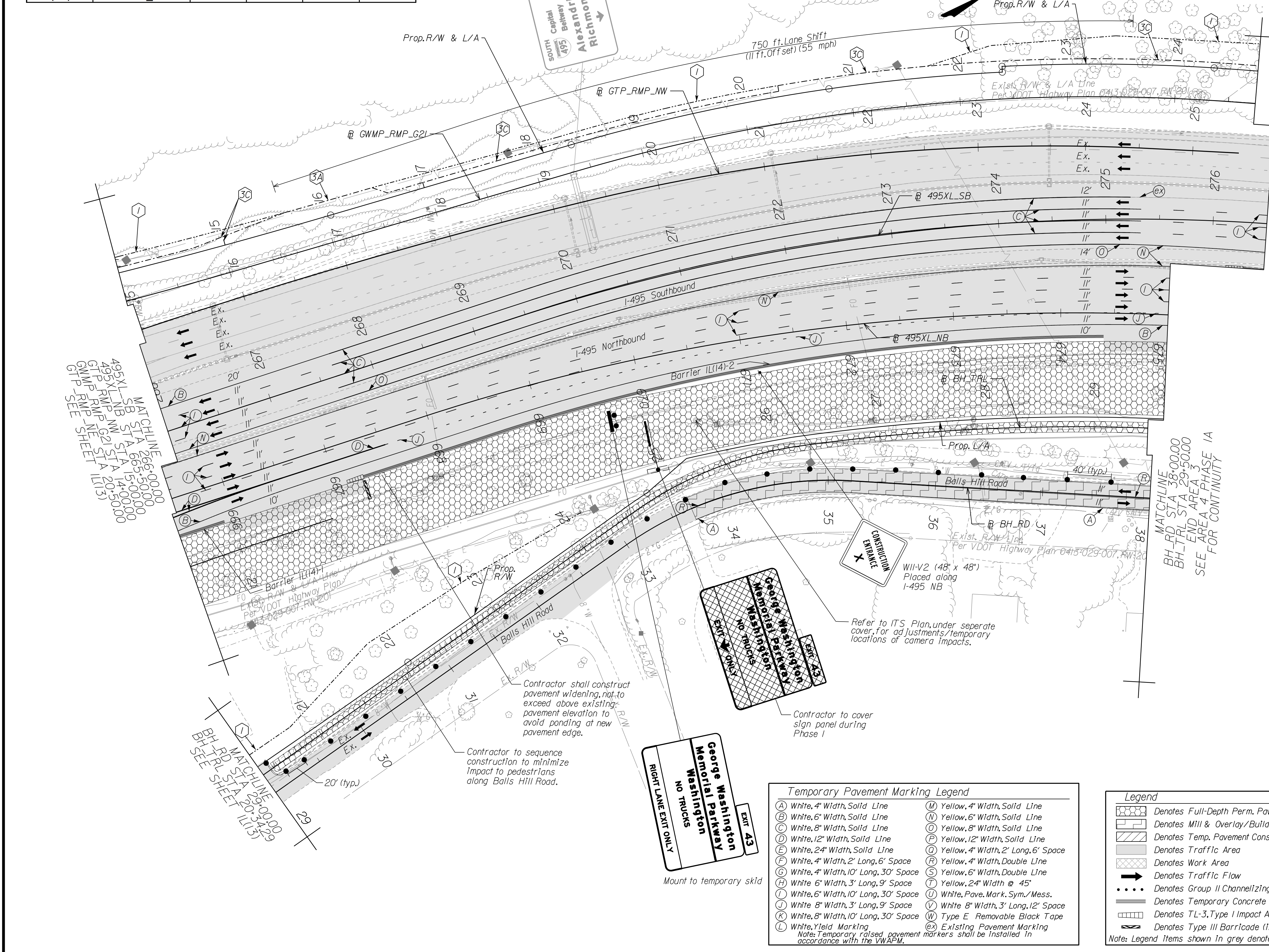
TEMPORARY BARRIER TABLE (LENGTHS ARE APPROXIMATE)					
NAME	BL	BEGIN		END	
		STATION	OFFSET	STATION	OFFSET
1L(14)-1	GTP_RMP_NE	SEE SHEET 1L(13)		20+94	29.31' LT
1L(14)-2	495XL_NB	667+26	35.67' RT	674+40	21.69' RT



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(14) AREA 3

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 266+00.00  
 495XL\_NB STA 266+00.00  
 GTP\_RMP\_NE STA 24+75.00  
 END AREA 3  
 SEE AREA 4 PHASE 1A  
 FOR CONTINUITY

MATCHLINE  
 BH\_RD STA 38+00.00  
 BH\_FL STA 29+50.00  
 END AREA 3  
 SEE AREA 4 PHASE 1A  
 FOR CONTINUITY

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 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
[Symbol]	Denotes Traffic Flow
[Symbol]	Denotes Group II Channelizing Devices
[Symbol]	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.

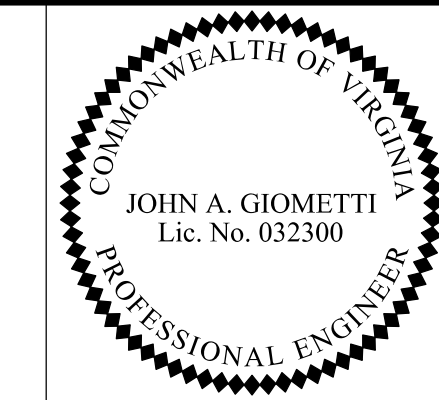
SCALE 0 50' 100'	VDOT PROJECT NO. 0495-029-419	SHEET NO. 1L(14) AREA 3
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APPROVED FOR CONSTRUCTION

NOVA DISTRICT



PROJECT MANAGER VDOT - Rupal Shah, P.E. (703) 259-2362  
 SURVEYED BY, DATE RDA - Nicholas Kougoullis, 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

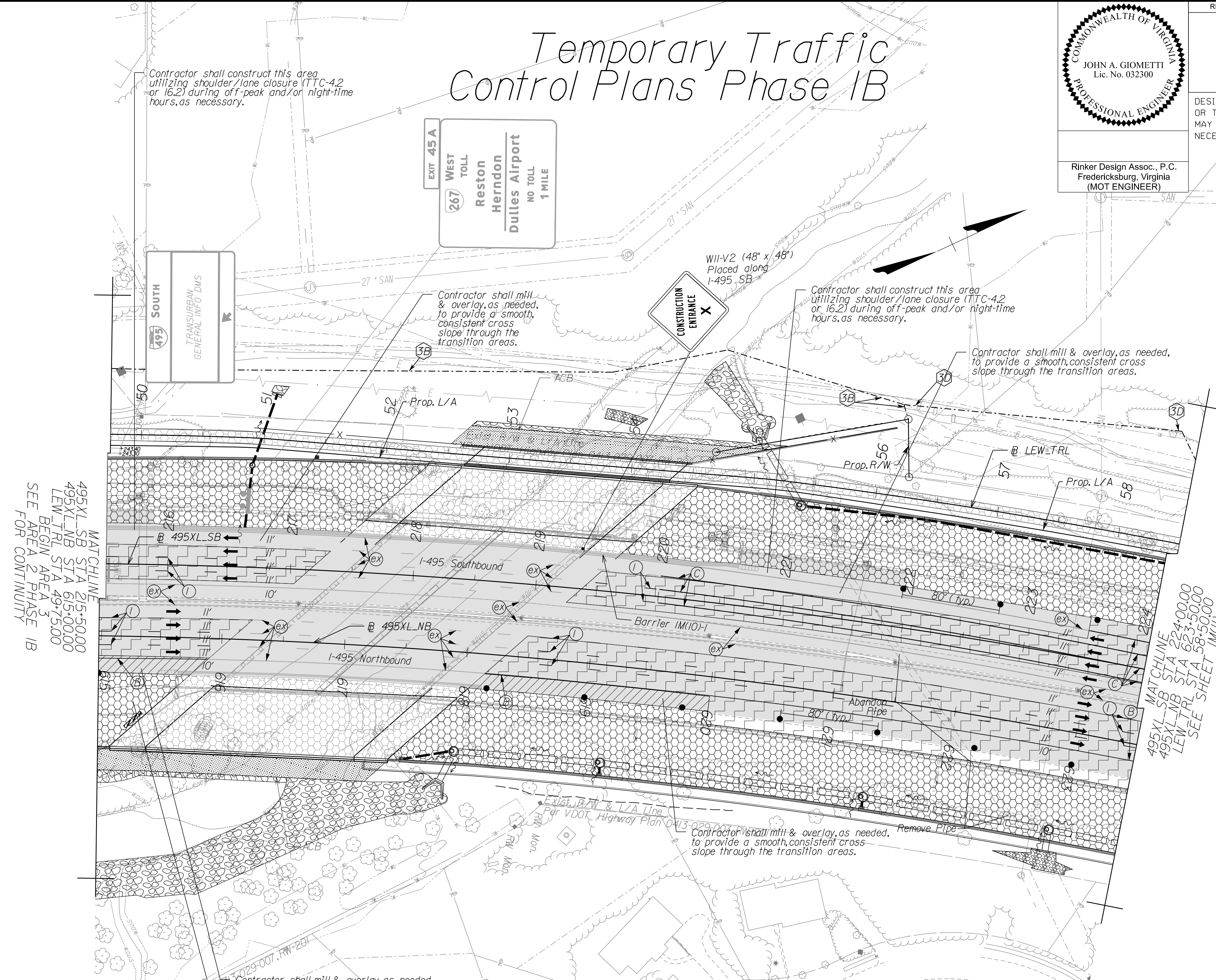


Rinker Design Assoc., P.C.  
 Fredericksburg, Virginia  
 (MOT ENGINEER)

REVISION	STATE	ROUTE	STATE	VDOT PROJECT NO.	SHEET NO.
	VA	495		0495-029-419 C501 RW201	1M(10) AREA 3

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 215+50.00  
 495XL\_NB STA 615+00.00  
 LEW-TRL STA 497+50.00  
 BEGIN AREA 3  
 SEE AREA 2 PHASE 1B  
 FOR CONTINUITY

MATCHLINE  
 495XL\_SB STA 224+00.00  
 495XL\_NB STA 625+50.00  
 LEW-TRL STA 58+50.00  
 SEE SHEET 1M(11)

TEMPORARY BARRIER TABLE (LENGTHS ARE APPROXIMATE)

NAME	BL	BEGIN		END	
		STATION	OFFSET	STATION	OFFSET
1M(10)-1	495XL_SB	219+50	23.17' LT	219+60	23.22' LT

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. 1M(10) AREA 3

APPROVED FOR CONSTRUCTION

NOVA DISTRICT

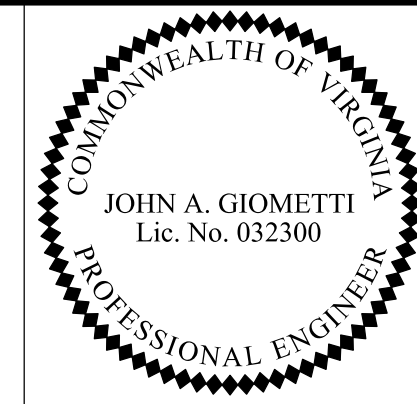






PROJECT MANAGER\_VDOT - Rupal Shah, PE, (703) 259-2362  
 SURVEYED BY, DATE\_RDA - Nicholas Kougoullis, LS, (703) 334-0837, 1/2019  
 DESIGN BY\_RDA - Darrell Fischer, PE, (703) 334-0823  
 SUBSURFACE UTILITY BY, DATE\_Accurmark - Michael Taylor, LS, (703) 635-3060, 12/2021

# Temporary Traffic Control Plans Phase 1B

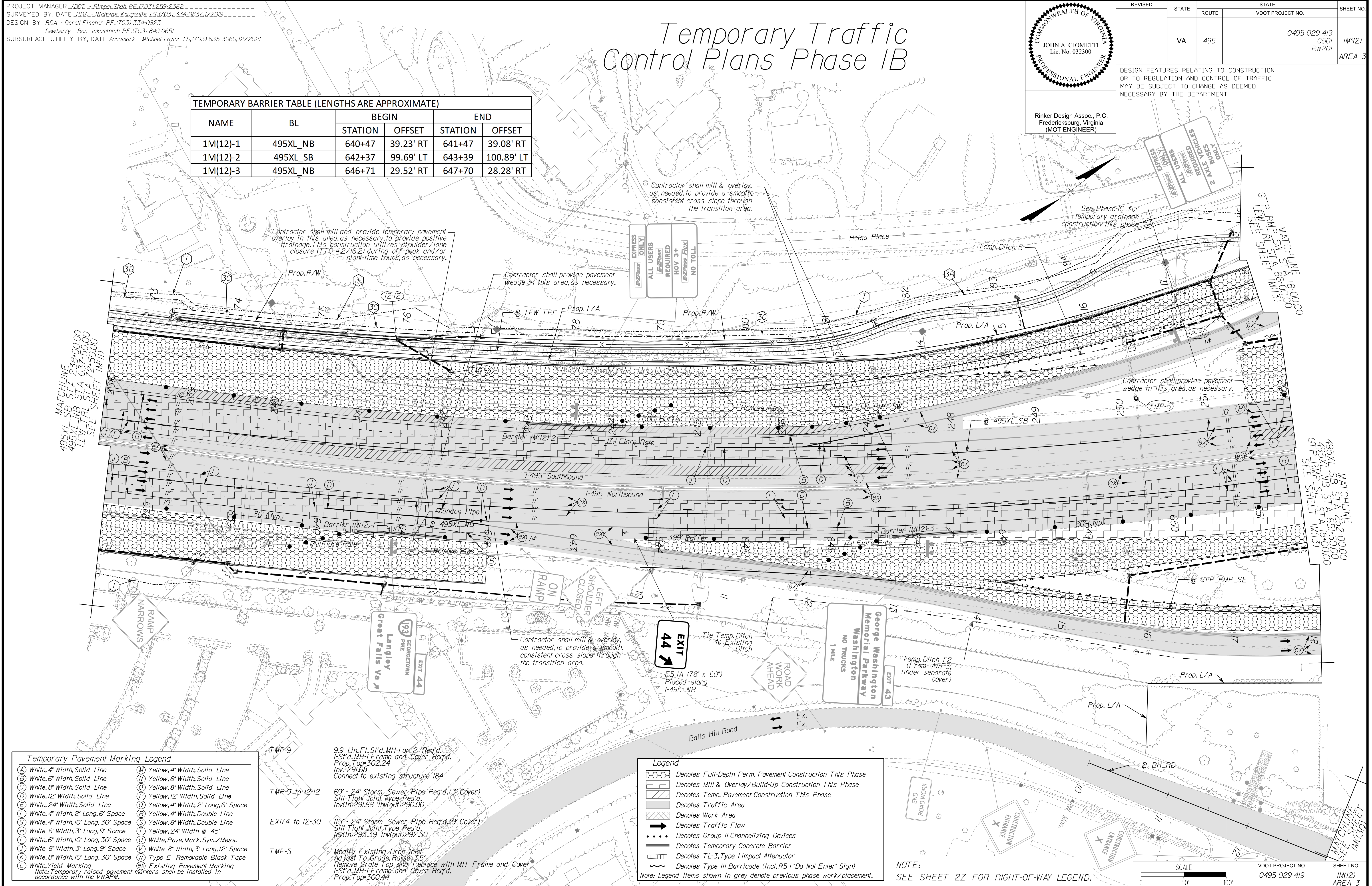


Rinker Design Assoc., P.C.  
 Fredericksburg, Virginia  
 (MOT ENGINEER)

REVISED	STATE	ROUTE	STATE	VDOT PROJECT NO.	SHEET NO.
	VA	495		0495-029-419 C501 RW201	IM(12) AREA 3

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(12)-1	495XL_NB	640+47	39.23' RT	641+47	39.08' RT
1M(12)-2	495XL_SB	642+37	99.69' LT	643+39	100.89' LT
1M(12)-3	495XL_NB	646+71	29.52' RT	647+70	28.28' RT



(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.

TMP-9 99 Lin. Ft. Std. MH-1 or 2 Req'd. 1-Std. MH-1 Frame and Cover Req'd. Prop. Top 302.24 Inv. 291.68 Connect to existing structure 184

TMP-9 to 12-12 69' - 24" Storm Sewer Pipe Req'd. (3' Cover) Silt-Tight Joint Type Req'd. Inv. 291.68 Inv. Out 290.00

EXIT 44 to 12-30 115' - 24" Storm Sewer Pipe Req'd. (9' Cover) Silt-Tight Joint Type Req'd. Inv. 293.39 Inv. Out 292.50

TMP-5 Modify Existing Drop Inlet. Ad Just To Grade, Raise 3.5' Remove Grate Top and Replace with MH Frame and Cover 1-Std. MH-1 Frame and Cover Req'd. Prop. Top 300.44

[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.

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

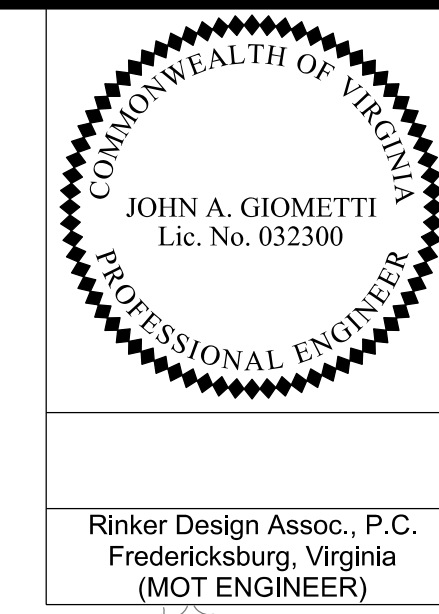
SCALE 0 50' 100'

VDOT PROJECT NO. 0495-029-419 SHEET NO. IM(12) AREA 3

APPROVED FOR CONSTRUCTION



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

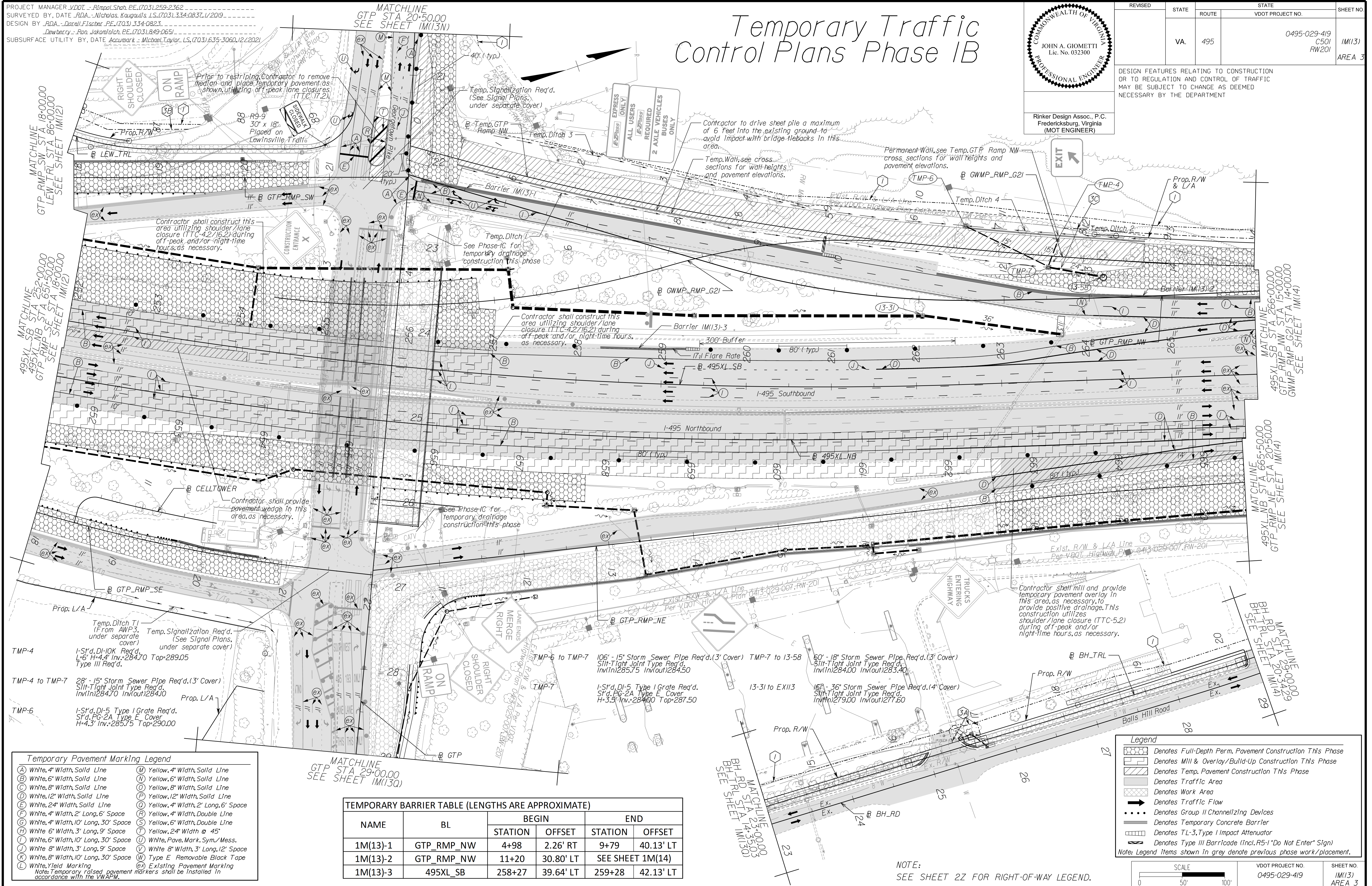


Rinker Design Assoc., P.C.  
Fredericksburg, Virginia  
(MOT ENGINEER)

REVISED	STATE	ROUTE	STATE	VDOT PROJECT NO.	SHEET NO.
	VA.	495		0495-029-419 C501 RW201	1M(13) AREA 3

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



**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.

**TEMPORARY BARRIER TABLE (LENGTHS ARE APPROXIMATE)**

NAME	BL	BEGIN		END	
		STATION	OFFSET	STATION	OFFSET
1M(13)-1	GTP_RMP_NW	4+98	2.26' RT	9+79	40.13' LT
1M(13)-2	GTP_RMP_NW	11+20	30.80' LT	SEE SHEET 1M(14)	
1M(13)-3	495XL_SB	258+27	39.64' LT	259+28	42.13' 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.

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

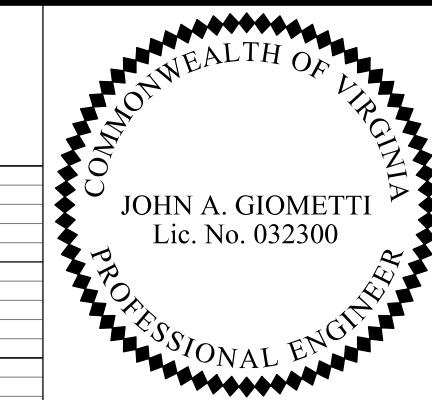
SCALE 0 50' 100'	VDOT PROJECT NO. 0495-029-419	SHEET NO. 1M(13) AREA 3
---------------------	----------------------------------	-------------------------------

APPROVED FOR CONSTRUCTION



PROJECT MANAGER\_VDOT - Rimal Stab PE (703) 259-2362  
SURVEYED BY, DATE\_BDA - Nicolas Kougoullis LS (703) 334-0837 12/2019  
DESIGN BY\_BDA - Darrell Elischer PE (703) 334-0823  
SUBSURFACE UTILITY BY, DATE\_Accumark - Michael Taylor LS (703) 635-3060 12/2021

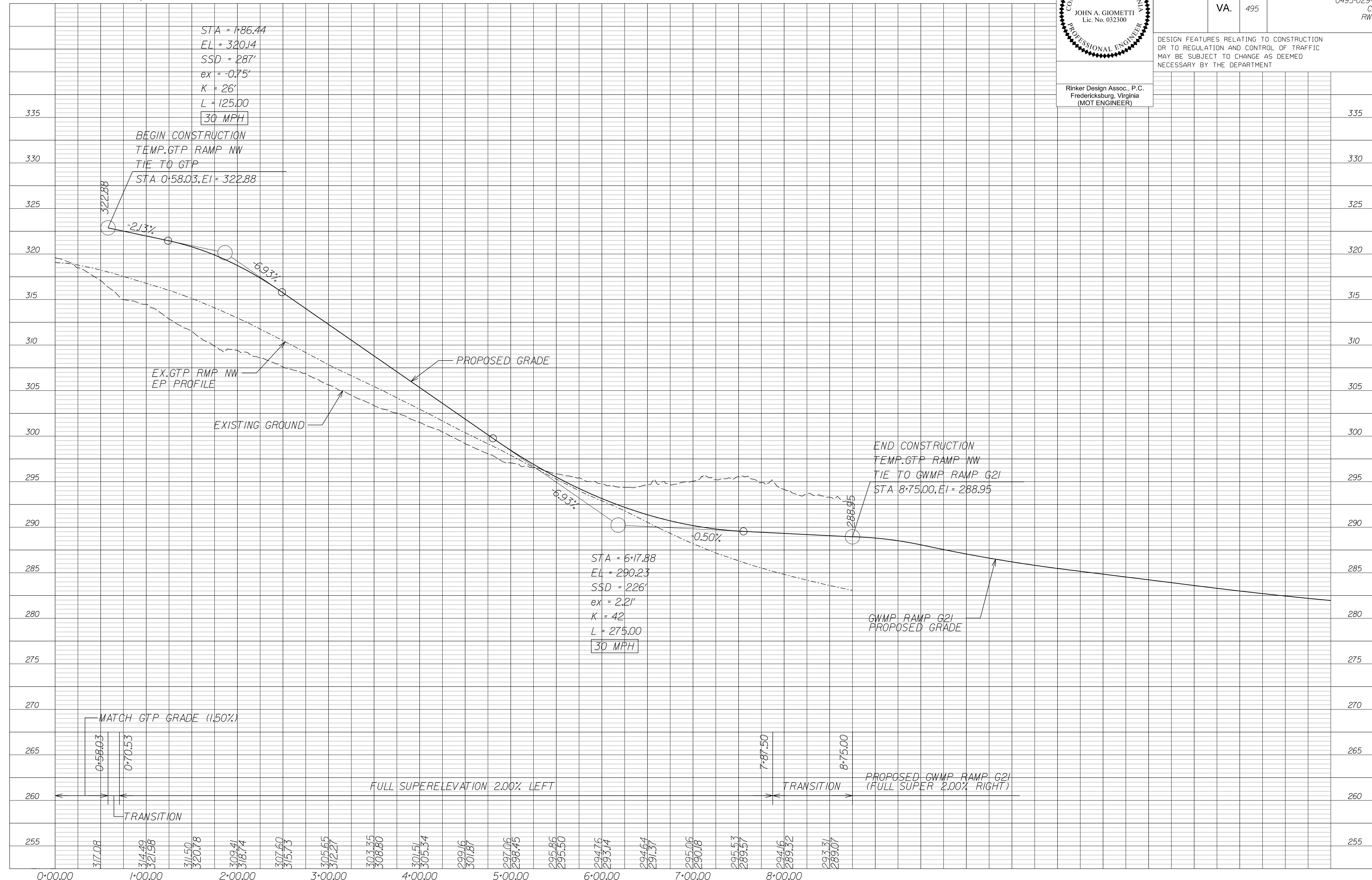
# Temporary GTP Ramp NW



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

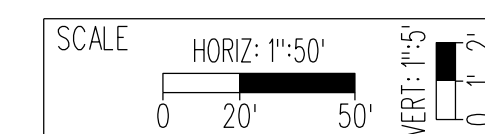
REVISED	STATE	ROUTE	STATE PROJECT	SHEET NO
	VA.	495	0495-029-419 C501 RW201	1M13A) AREA 3

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

10/6/2022



VDOT PROJECT NO. 0495-029-419  
SHEET NO. 1M13A) AREA 3

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 Accumark - Michael Taylor, LS (703) 635-3060, 12/2021

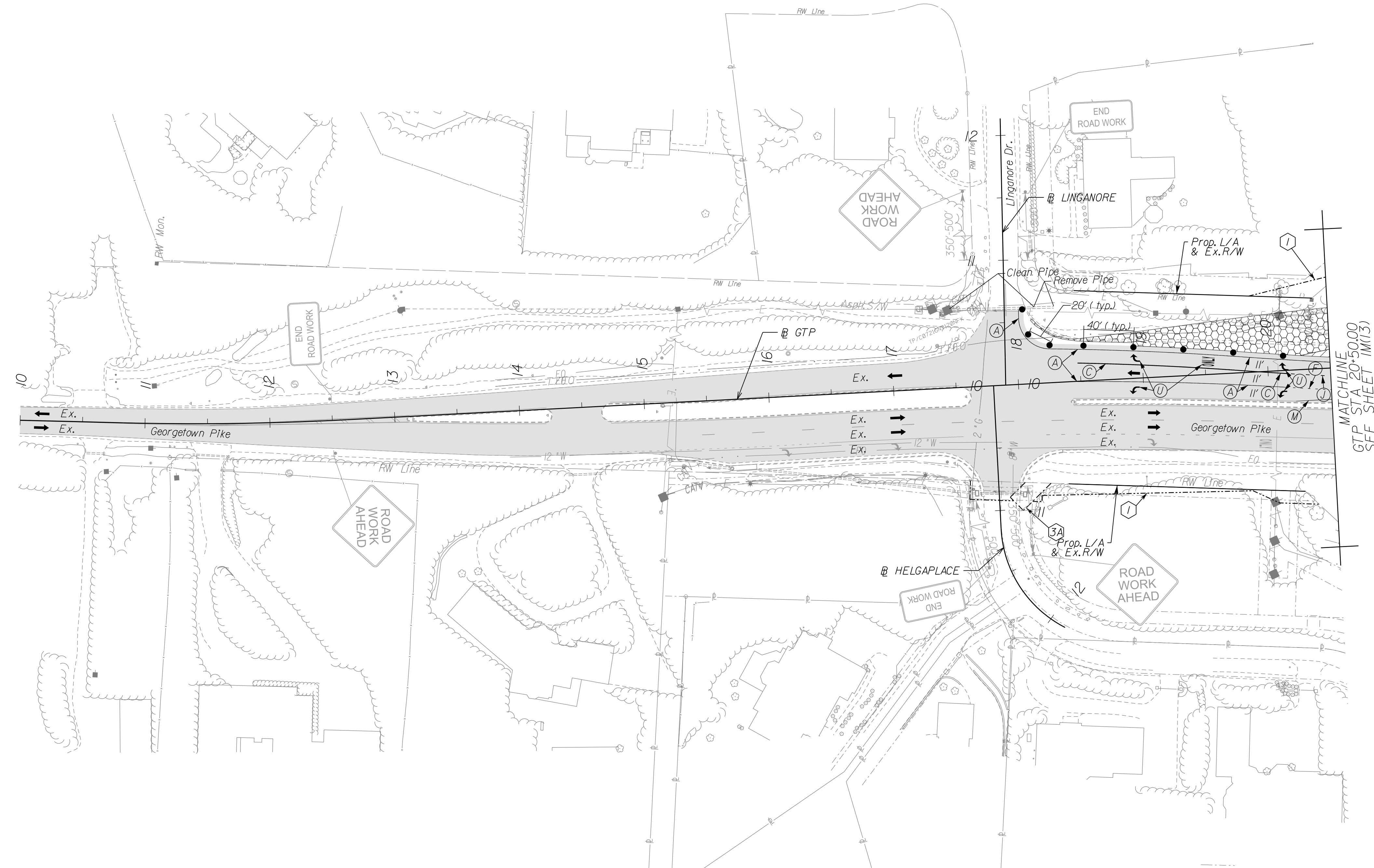
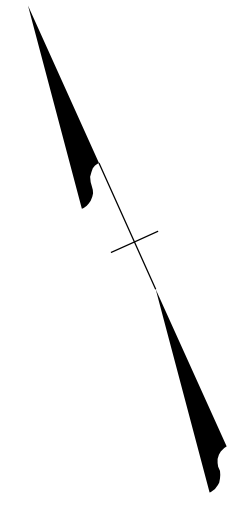
# Temporary Traffic Control Plans Phase 1B

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	IM(13N) AREA 3

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



MATCHLINE  
GTP STA 20+50.00  
SEE SHEET IM(13)

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

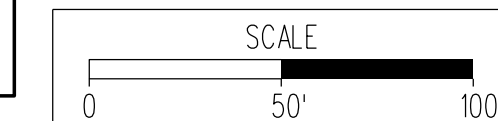
Note: Temporary raised pavement markers shall be installed in accordance with the VWAPM.

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

**Legend**

	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.



VDOT PROJECT NO. 0495-029-419	SHEET NO. IM(13N) AREA 3
----------------------------------	--------------------------------

APPROVED FOR CONSTRUCTION



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

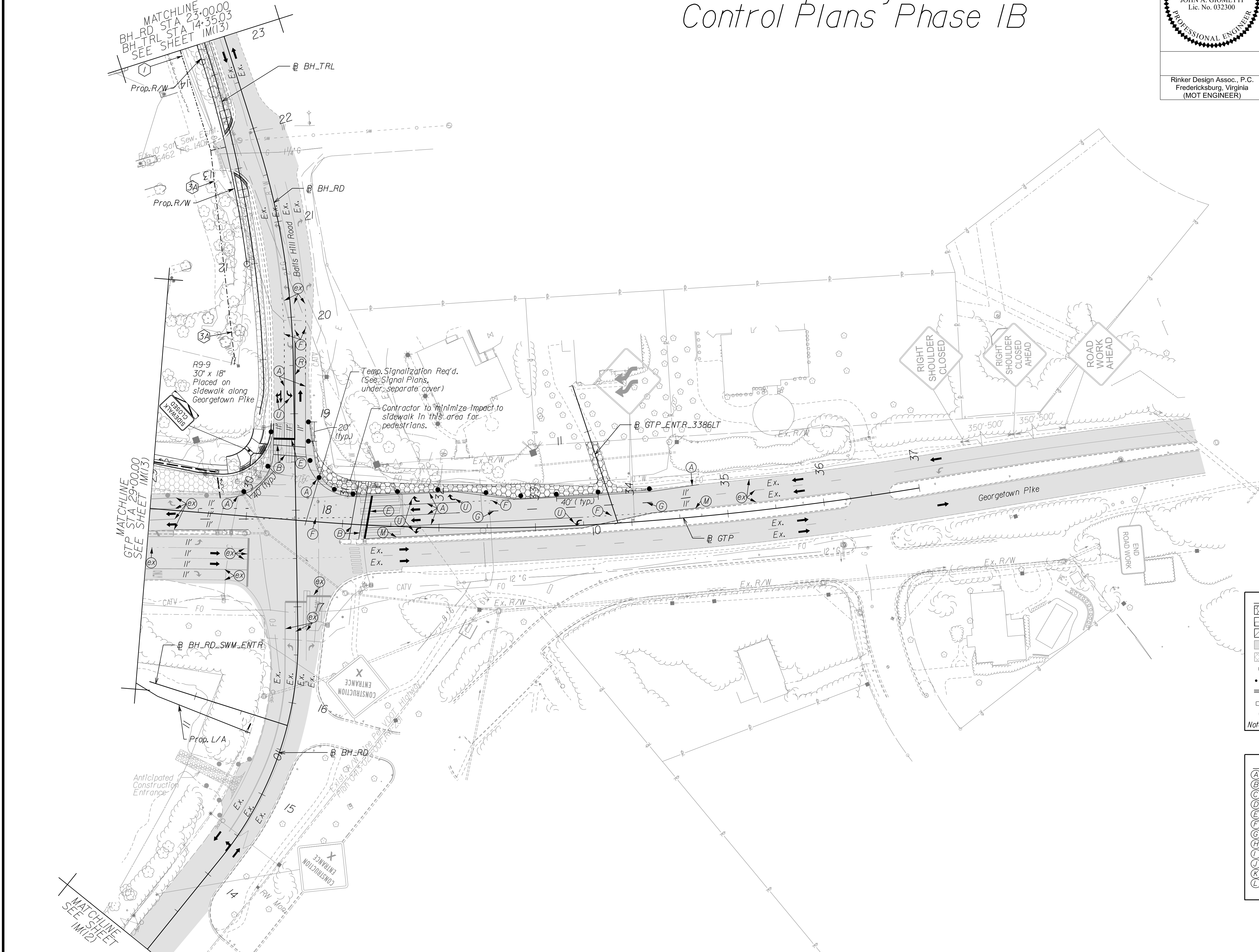
# Temporary Traffic Control Plans Phase 1B

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(130) AREA 3

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 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.

**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.
(I) 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.

SCALE 0 50' 100'	VDOT PROJECT NO. 0495-029-419	SHEET NO. 1M(130) AREA 3
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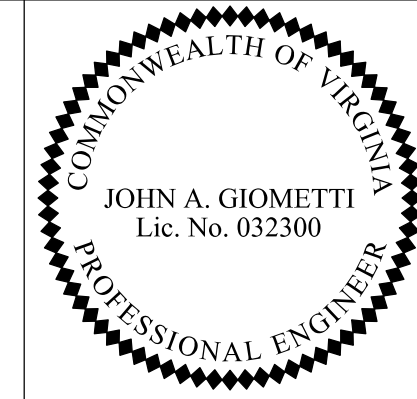
APPROVED FOR CONSTRUCTION

NOVA DISTRICT



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 Accurmark - Michael, Taylor, LS, (703) 635-3060, 12/2021

# Temporary Traffic Control Plans Phase 1B



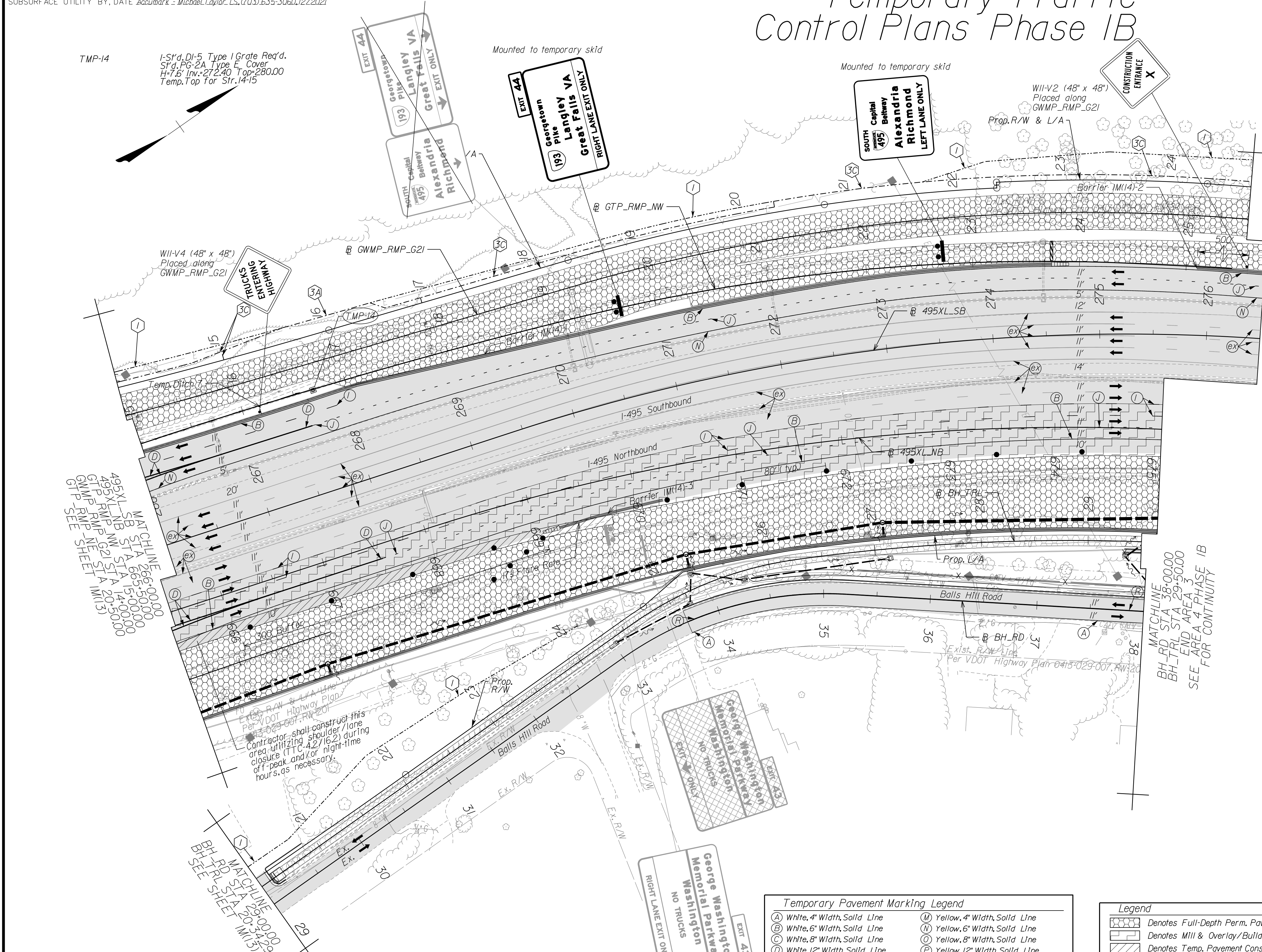
Rinker Design Assoc., P.C.  
 Fredericksburg, Virginia  
 (MOT ENGINEER)

REVISED	STATE	ROUTE	STATE	VDOT PROJECT NO.	SHEET NO.
	VA	495		0495-029-419 C501 RW201	1M(14) AREA 3

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 266+00.00  
 495XL\_NB STA 15+00.00  
 GTP\_RMP\_NW STA 14+00.00  
 GTP\_RMP\_NE STA 20+31.29  
 SEE SHEET 1M(13)  
 SEE AREA 4 PHASE 1B  
 SEE FOR CONTINUITY

MATCHLINE  
 BH\_RD STA 38+00.00  
 BH\_TL STA 29+50.00  
 SEE AREA 3  
 SEE FOR CONTINUITY



TEMPORARY BARRIER TABLE (LENGTHS ARE APPROXIMATE)

NAME	BL	BEGIN		END	
		STATION	OFFSET	STATION	OFFSET
1M(14)-1	GTP_RMP_NW	SEE SHEET 1M(13)		23+74	2.68' RT
1M(14)-2	495XL_SB	275+89	63.16' LT	SEE AREA 4	
1M(14)-3	495XL_NB	669+23	33.75' RT	670+24	30.00' 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 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.

SCALE 0 50' 100'	VDOT PROJECT NO. 0495-029-419	SHEET NO. 1M(14) AREA 3
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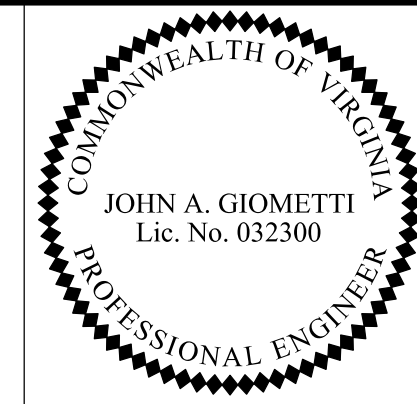
APPROVED FOR CONSTRUCTION

NOVA DISTRICT



PROJECT MANAGER VDOT - Rupal Shah, PE, (703) 259-2362  
 SURVEYED BY, DATE RDA - Nicholas Kougoullis, LS, (703) 334-0837, 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 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(10) AREA 3

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

10/16/2022

495XL SB STA 215+50.00  
 495XL NB STA 615+00.00  
 LEW-TRL STA 49+75.00  
 BEGIN AREA 3  
 SEE AREA 2 PHASE 1B  
 FOR CONTINUITY

MATCHLINE  
 495XL SB STA 224+00.00  
 495XL NB STA 623+50.00  
 LEW-TRL STA 58+50.00  
 SEE SHEET IN(11)

NO WORK THIS SHEET

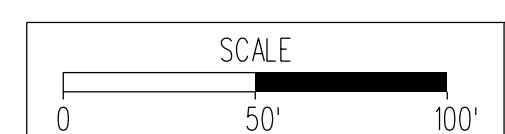
(A) White, 4" Width, Solid Line	(M) Yellow, 4" Width, Solid Line
(B) White, 6" Width, Solid Line	(N) Yellow, 6" Width, Solid Line
(C) White, 8" Width, Solid Line	(O) Yellow, 8" Width, Solid Line
(D) White, 12" Width, Solid Line	(P) Yellow, 12" Width, Solid Line
(E) White, 24" Width, Solid Line	(Q) Yellow, 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 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 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.



VDOT PROJECT NO. 0495-029-419	SHEET NO. IN(10) AREA 3
----------------------------------	-------------------------------

APPROVED FOR CONSTRUCTION



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\_Accumark - Michael Taylor, LS (703) 635-3060, 12/2021

JOHN A. GIOMETTI  
 Lic. No. 032300

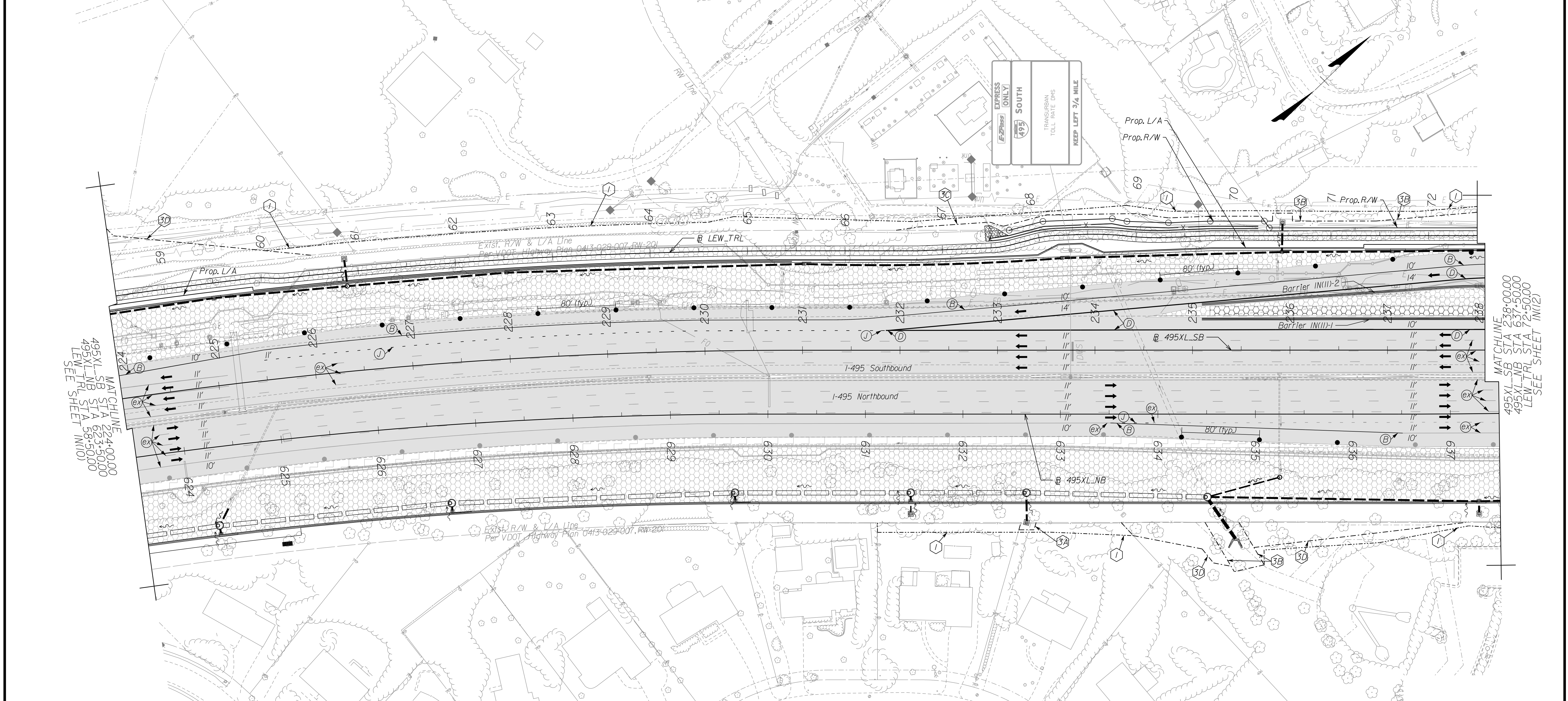
Rinker Design Assoc., P.C.  
 Fredericksburg, Virginia  
 (MOT ENGINEER)

REVISED	STATE	ROUTE	STATE	VDOT PROJECT NO.	SHEET NO.
	VA.	495		0495-029-419 C501 RW201	IN(III) AREA 3

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(11)-1	495XL_SB	235+10	31.85' LT	238+00	32.51' LT
1N(11)-2	495XL_SB	235+10	46.97' LT	SEE SHEET 1N(12)	

# Temporary Traffic Control Plans Phase 1C



(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.

	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. IN(III) AREA 3

APPROVED FOR CONSTRUCTION

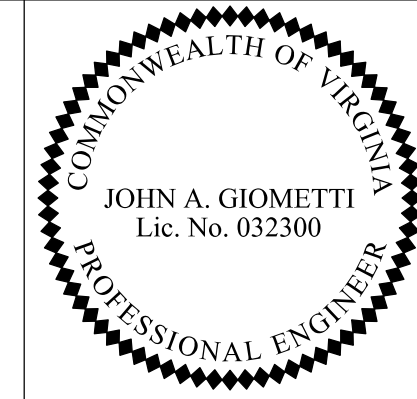
NOVA DISTRICT

10/16/2022



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 1C

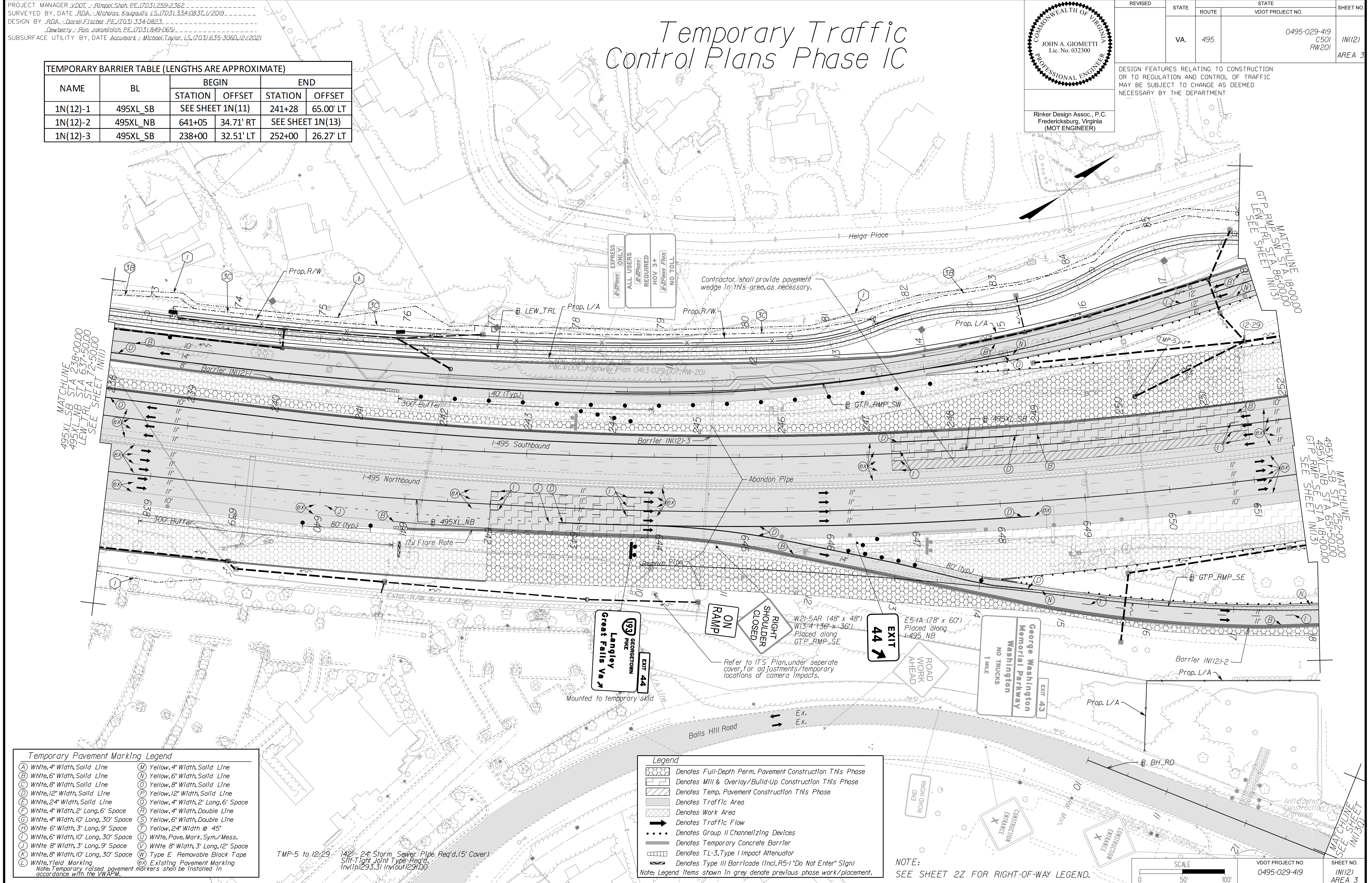


Rinker Design Assoc., P.C.  
 Fredericksburg, Virginia  
 (MOT ENGINEER)

REVISED	STATE	ROUTE	STATE	VDOT PROJECT NO.	SHEET NO.
	VA	495		0495-029-419 C501 RW201	IN(12) AREA 3

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(12)-1	495XL_SB	SEE SHEET 1N(11)		241+28	65.00' LT
1N(12)-2	495XL_NB	641+05	34.71' RT	SEE SHEET 1N(13)	
1N(12)-3	495XL_SB	238+00	32.51' LT	252+00	26.27' LT



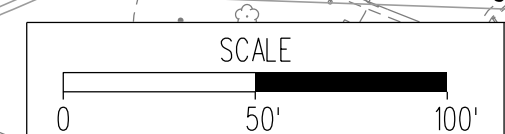
(A) White, 4" Width, Solid Line	(M) Yellow, 4" Width, Solid Line
(B) White, 6" Width, Solid Line	(N) Yellow, 6" Width, Solid Line
(C) White, 8" Width, Solid Line	(O) Yellow, 8" Width, Solid Line
(D) White, 12" Width, Solid Line	(P) Yellow, 12" Width, Solid Line
(E) White, 24" Width, Solid Line	(Q) Yellow, 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 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 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.



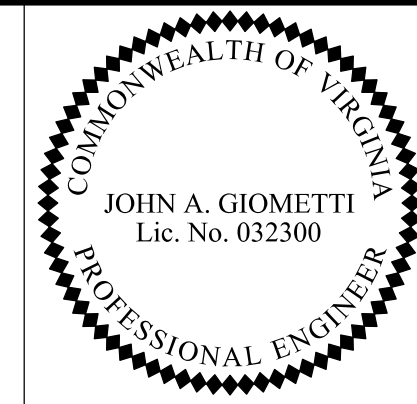
VDOT PROJECT NO. 0495-029-419	SHEET NO. IN(12) AREA 3
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APPROVED FOR CONSTRUCTION



PROJECT MANAGER\_VDOT - Rita 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

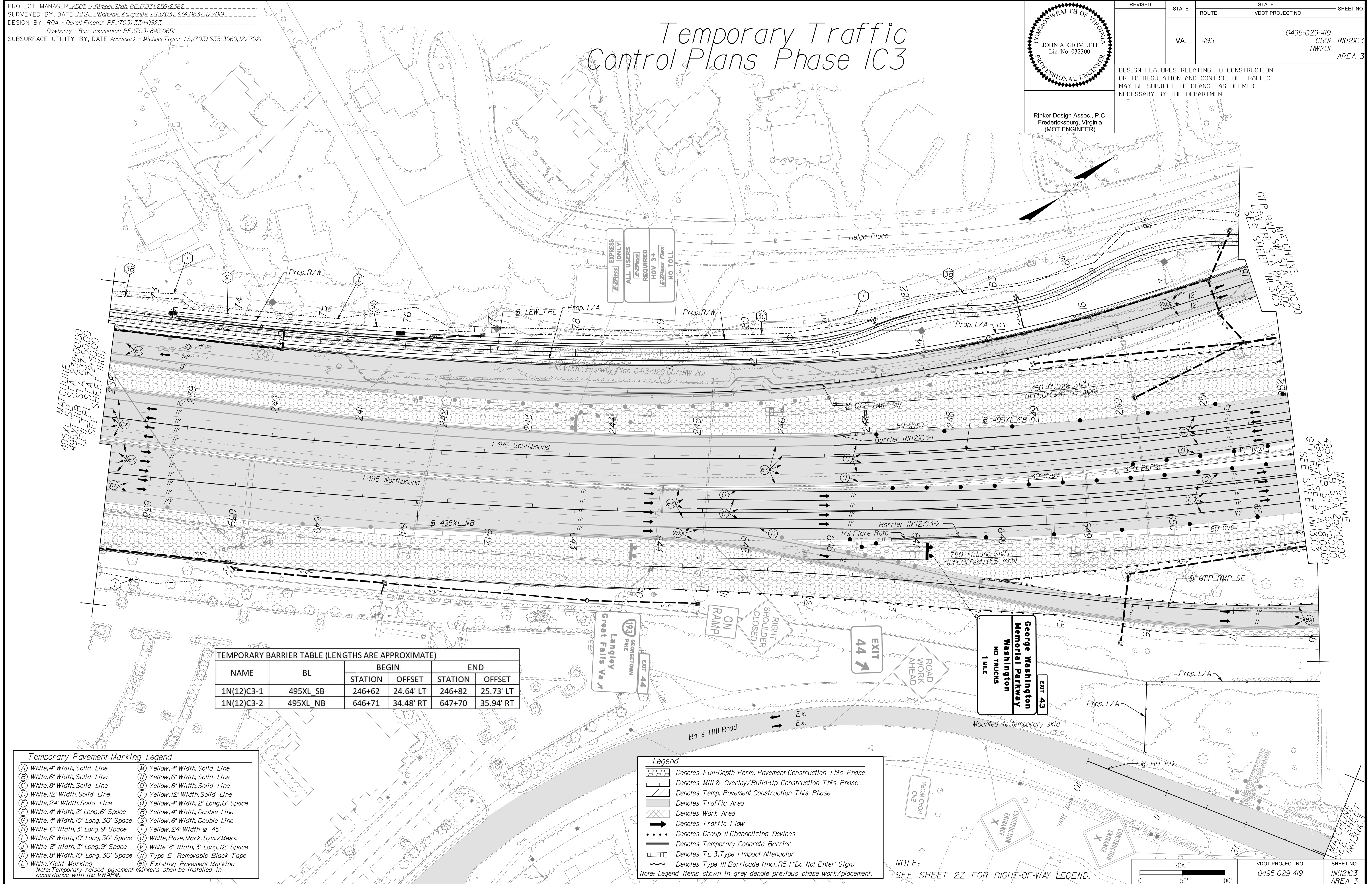
# Temporary Traffic Control Plans Phase 1C3



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	IN12IC3 AREA 3

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
1N(12)C3-1	495XL_SB	246+62	24.64' LT	246+82	25.73' LT
1N(12)C3-2	495XL_NB	646+71	34.48' RT	647+70	35.94' 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, 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

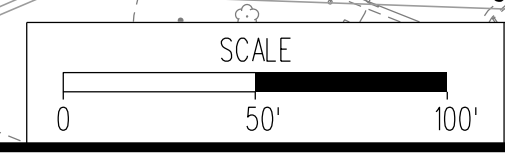
Note: Temporary raised pavement markers shall be installed in accordance with the VMAP.

Legend

- 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.



VDOT PROJECT NO. 0495-029-419	SHEET NO. IN12IC3 AREA 3
----------------------------------	--------------------------------

APPROVED FOR CONSTRUCTION

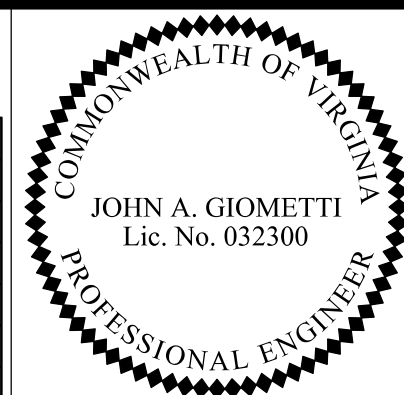


PROJECT MANAGER\_VDOT - Rupal Shah, PE, (703) 259-2362  
SURVEYED BY, DATE\_RDA - Nicholas Kougoullis, LS, (703) 334-0837, 1/2019  
DESIGN BY\_RDA - Darrell Fischer, PE, (703) 334-0823  
Subsurface Utility By, DATE\_Accumark - Michael Taylor, LS, (703) 635-3060, 1/2/2021

MATCHLINE  
GTP STA 20+50.00  
SEE SHEET IN(13N)

# Temporary Traffic Control Plans Phase 1C

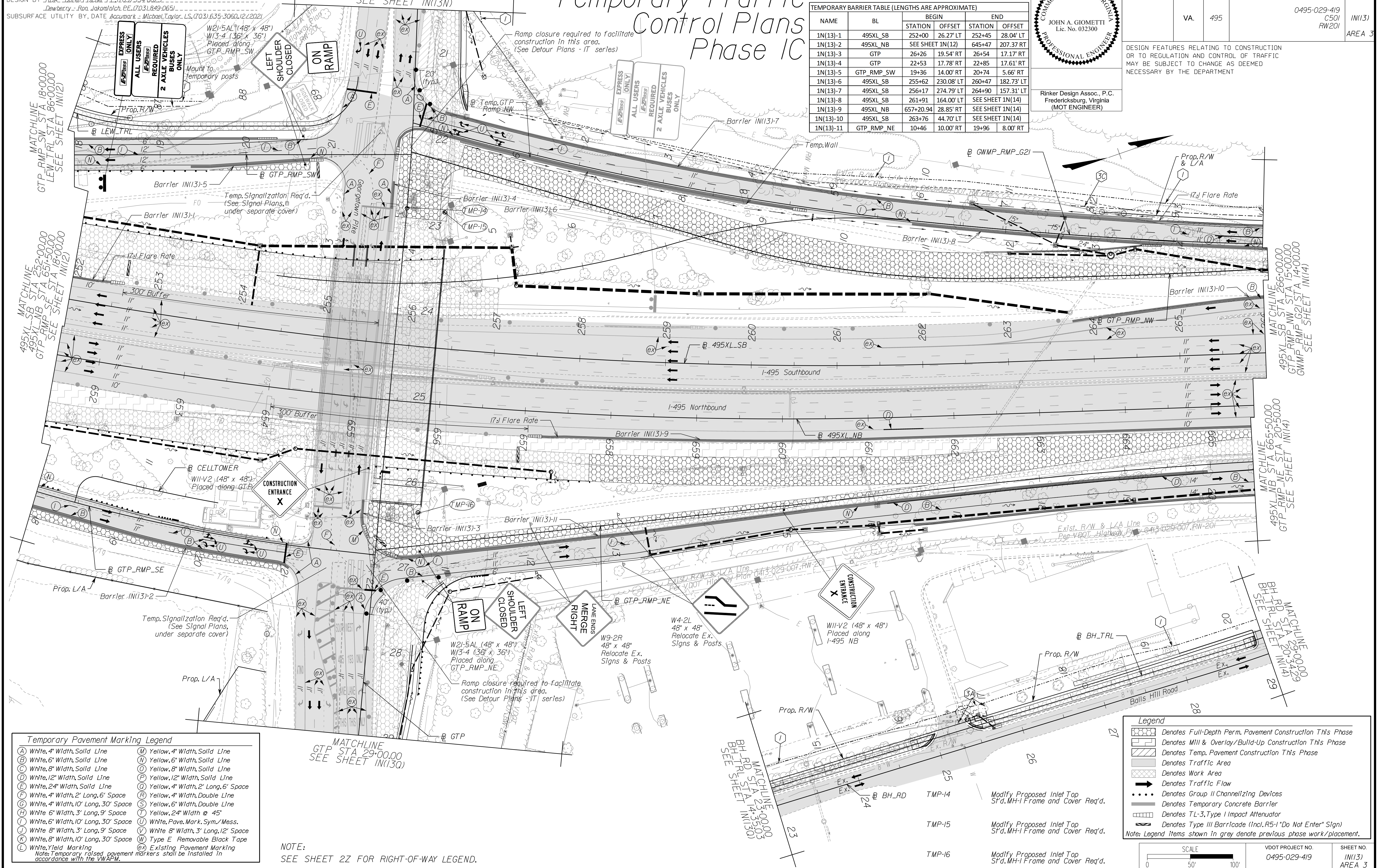
NAME	BL	BEGIN		END	
		STATION	OFFSET	STATION	OFFSET
1N(13)-1	495XL_SB	252+00	26.27' LT	252+45	28.04' LT
1N(13)-2	495XL_NB	SEE SHEET 1N(12)		645+47	207.37' RT
1N(13)-3	GTP	22+26	19.54' RT	26+54	17.17' RT
1N(13)-4	GTP	22+53	17.78' RT	22+85	17.61' RT
1N(13)-5	GTP_RMP_SW	19+36	14.00' RT	20+74	5.66' RT
1N(13)-6	495XL_SB	255+62	230.08' LT	260+47	182.73' LT
1N(13)-7	495XL_SB	256+17	274.79' LT	264+90	157.31' LT
1N(13)-8	495XL_SB	261+91	164.00' LT	SEE SHEET 1N(14)	
1N(13)-9	495XL_NB	657+20.94	28.85' RT	SEE SHEET 1N(14)	
1N(13)-10	495XL_SB	263+76	44.70' LT	SEE SHEET 1N(14)	
1N(13)-11	GTP_RMP_NE	10+46	10.00' RT	19+96	8.00' RT



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(13) AREA 3

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.

NOTE:  
SEE SHEET 22 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.

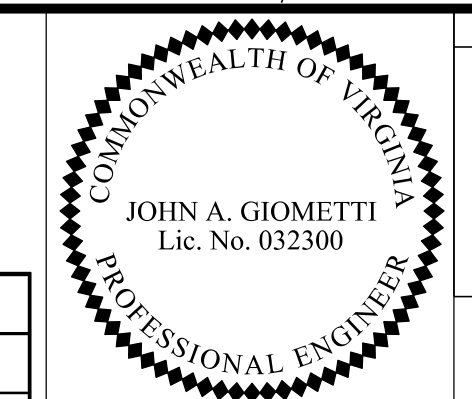
SCALE	VDOT PROJECT NO.	SHEET NO.
0 50' 100'	0495-029-419	IN(13) AREA 3

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 1C2

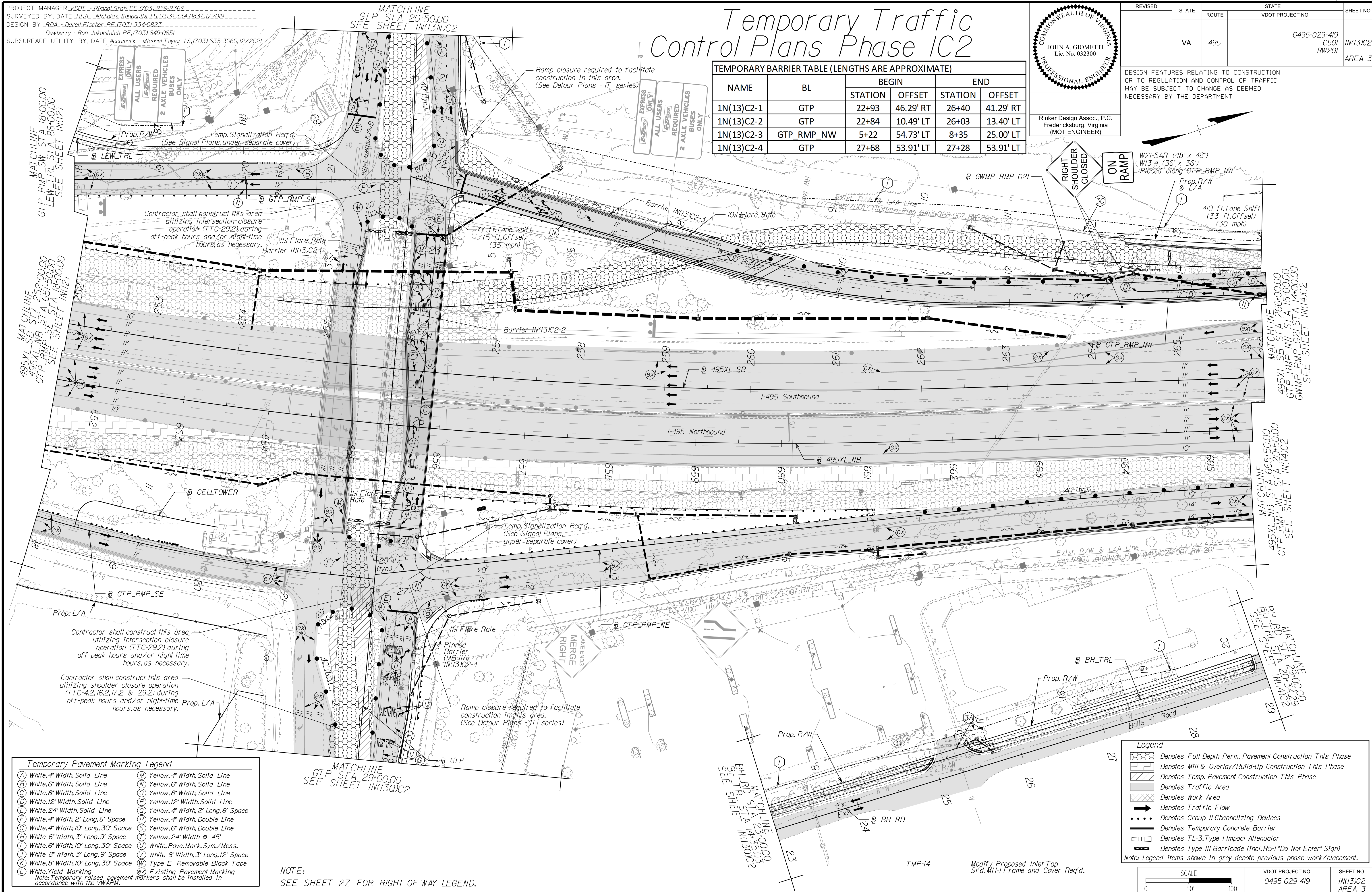


Rinker Design Assoc., P.C.  
 Fredericksburg, Virginia  
 (MOT ENGINEER)

REVISED	STATE	ROUTE	STATE	VDOT PROJECT NO.	SHEET NO.
	VA.	495		0495-029-419 C501 RW201	IN131C2 AREA 3

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(13)C2-1	GTP	22+93	46.29' RT	26+40	41.29' RT
1N(13)C2-2	GTP	22+84	10.49' LT	26+03	13.40' LT
1N(13)C2-3	GTP_RMP_NW	5+22	54.73' LT	8+35	25.00' LT
1N(13)C2-4	GTP	27+68	53.91' LT	27+28	53.91' 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 VMAP.

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

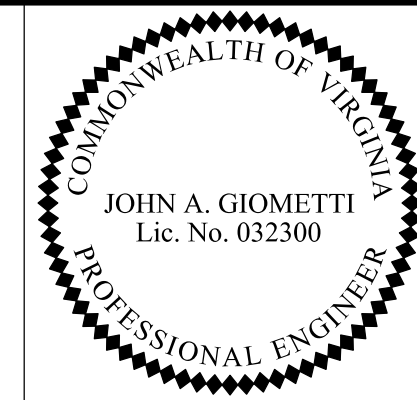
APPROVED FOR CONSTRUCTION



PROJECT MANAGER\_VDOT - Rupal Shah, PE, (703) 259-2362  
SURVEYED BY, DATE\_RDA - Nicholas Kaugauls, LS, (703) 334-0837, 1/2019  
DESIGN BY\_RDA - Darrell Fischer, PE, (703) 334-0823  
Newberry - Ron Jakomilich, PE, (703) 849-0651  
SUBSURFACE UTILITY BY, DATE\_Accumark - Michael Taylor, LS, (703) 635-3060, 12/2021

MATCHLINE  
GTP STA 20+50.00  
SEE SHEET IN131C3

# Temporary Traffic Control Plans Phase IC3



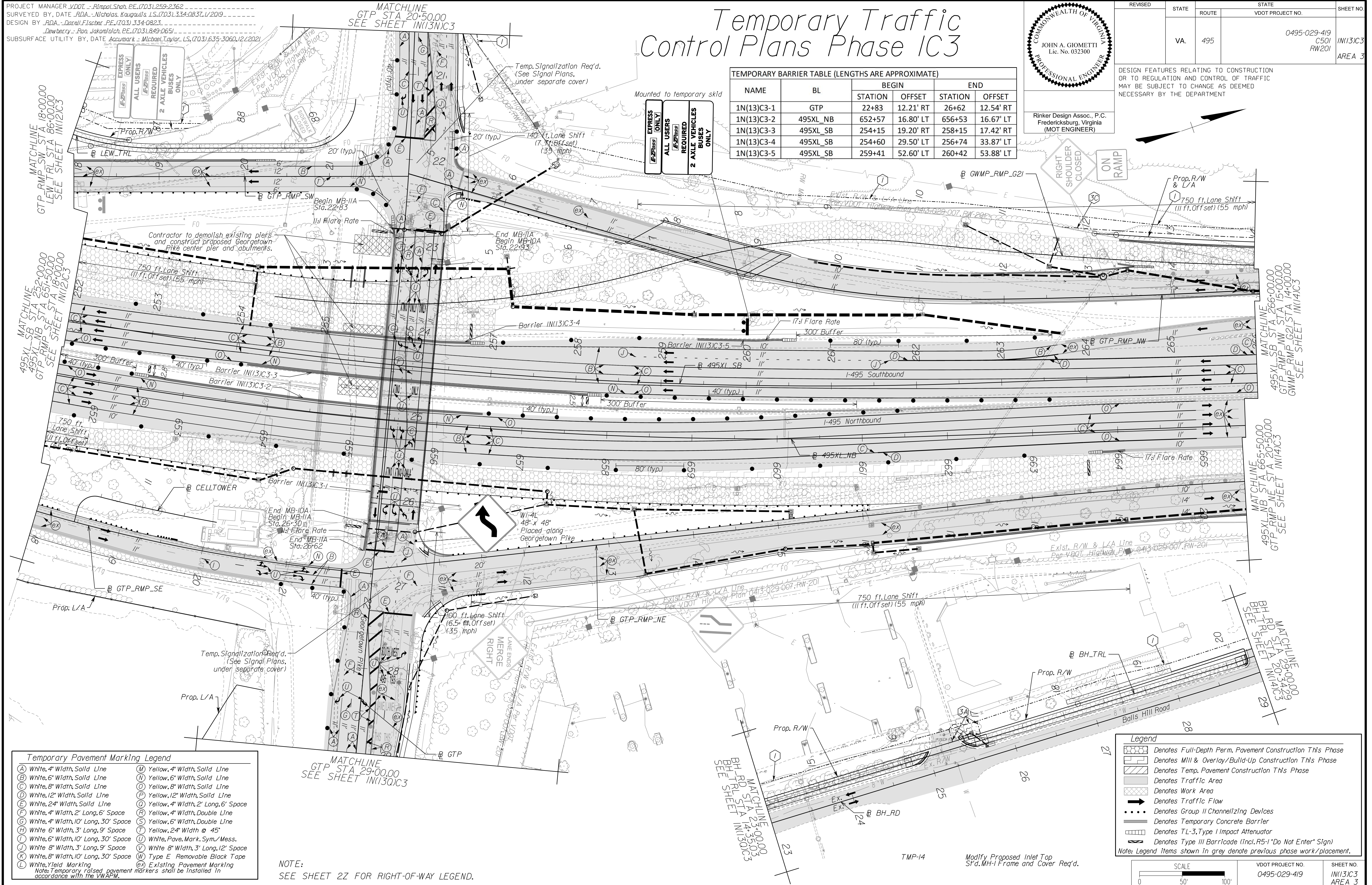
Rinker Design Assoc., P.C.  
Fredericksburg, Virginia  
(MOT ENGINEER)

REVISED	STATE	ROUTE	STATE	VDOT PROJECT NO.	SHEET NO.
	VA.	495		0495-029-419 C501 RW201	IN131C3 AREA 3

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
1N(13)C3-1	GTP	22+83	12.21' RT	26+62	12.54' RT
1N(13)C3-2	495XL_NB	652+57	16.80' LT	656+53	16.67' LT
1N(13)C3-3	495XL_SB	254+15	19.20' RT	258+15	17.42' RT
1N(13)C3-4	495XL_SB	254+60	29.50' LT	256+74	33.87' LT
1N(13)C3-5	495XL_SB	259+41	52.60' LT	260+42	53.88' LT



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.

NOTE:  
SEE SHEET 22 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. IN131C3 AREA 3
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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, 1/2019  
 DESIGN BY RDA - Darrell Fischer, P.E. (703) 334-0823  
 SUBSURFACE UTILITY BY, DATE Accumark - Michael Taylor, LS (703) 635-3060, 12/2021

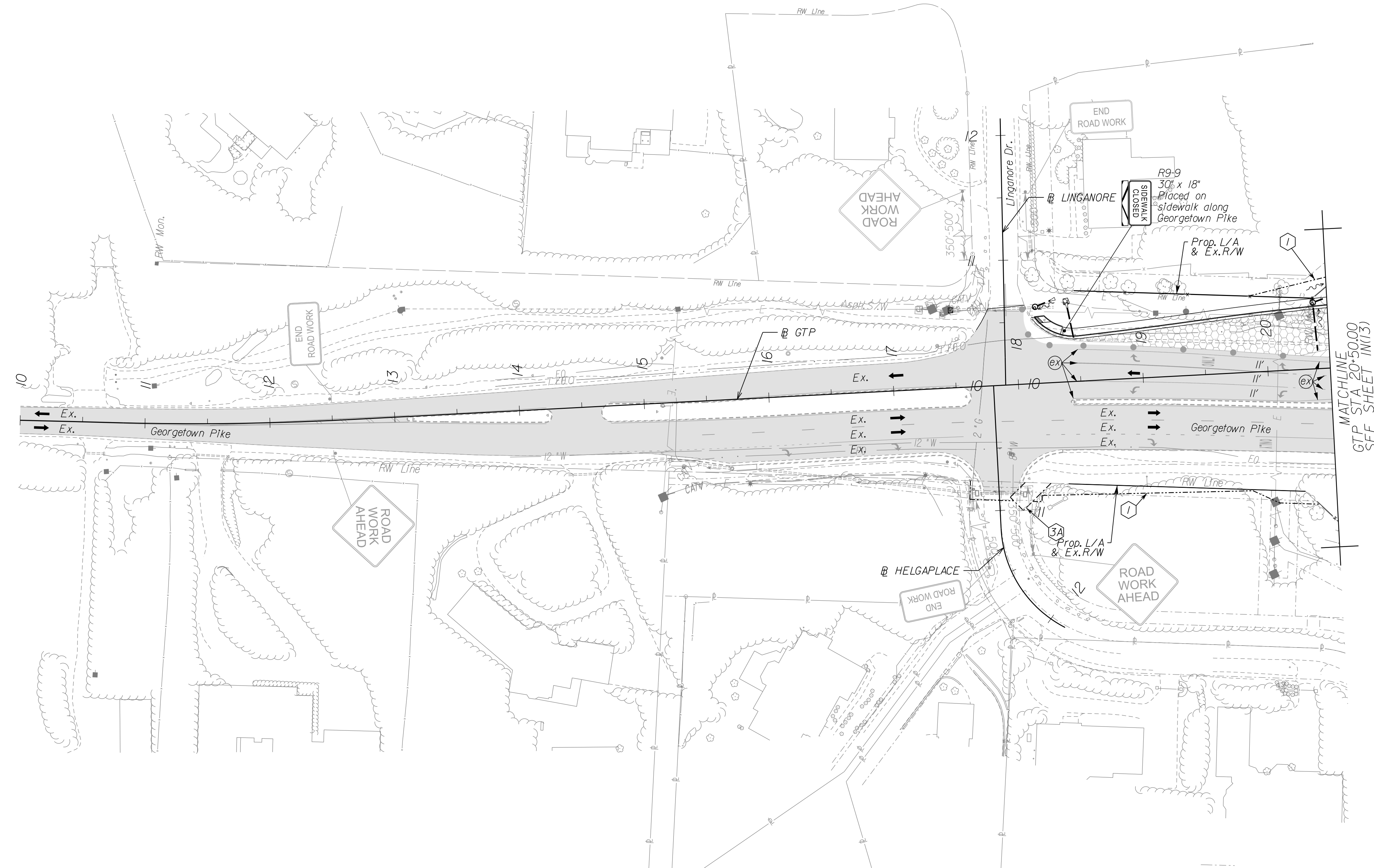
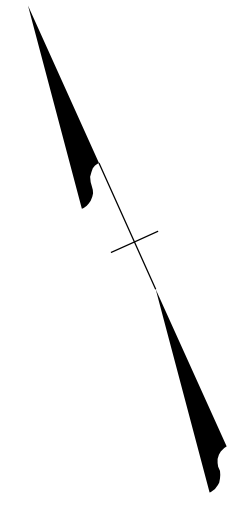
# Temporary Traffic Control Plans Phase 1C

COMMONWEALTH OF VIRGINIA  
 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(13N) AREA 3

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 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 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. IN(13N) AREA 3
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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, 1/2019  
 DESIGN BY RDA - Darrell Fischer, P.E. (703) 334-0823  
 SUBSURFACE UTILITY BY, DATE Accumark - Michael Taylor, LS (703) 635-3060, 12/2021

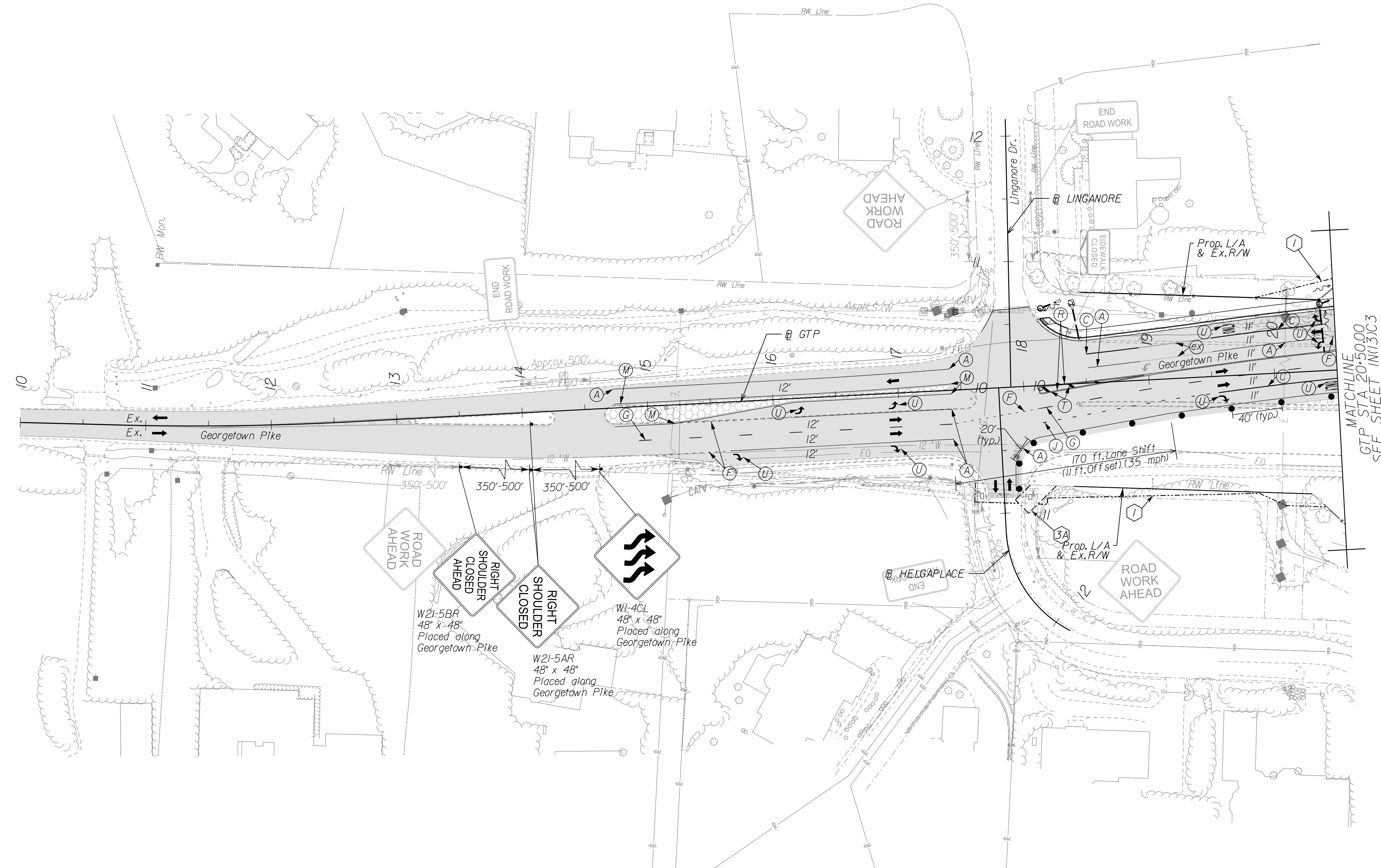
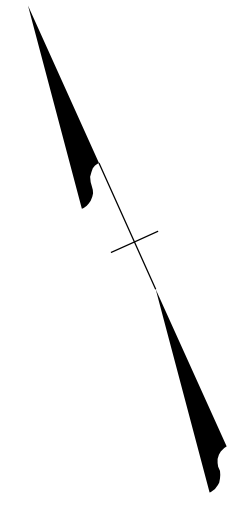
# Temporary Traffic Control Plans Phase 1C3

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	IN13NC3 AREA 3

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
[Pattern]	Denotes Traffic Flow
[Symbol]	Denotes Group II Channelizing Devices
[Symbol]	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. IN13NC3 AREA 3
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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

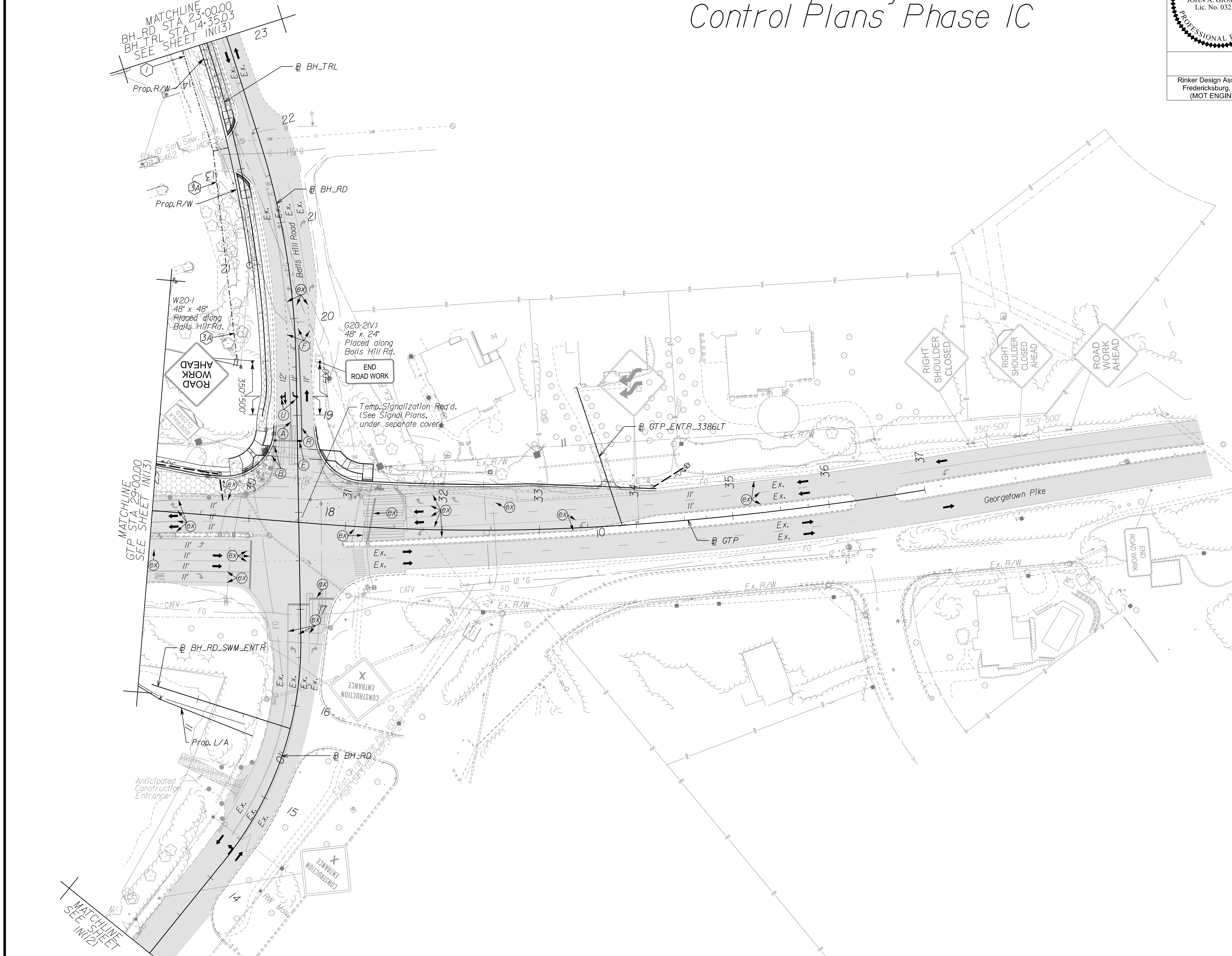
# Temporary Traffic Control Plans Phase 1C

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(130) AREA 3

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 LEGEND.

**Legend**

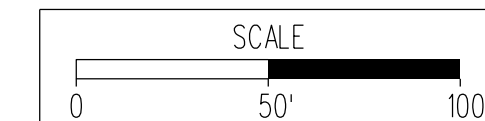
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- Denotes Temp. Pavement Construction This Phase
- Denotes Traffic Area
- Denotes Work Area
- Denotes Traffic Flow
- Denotes Group II Channelizing Devices
- Denotes Temporary Concrete Barrier
- Denotes TL-3, Type I Impact Attenuator
- Denotes Type 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°
(J) White, 6" Width, 10' Long, 30' Space	(U) White, Pav. Mark. Sym./Mess.
(I) 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.



VDOT PROJECT NO. 0495-029-419	SHEET NO. IN(130) AREA 3
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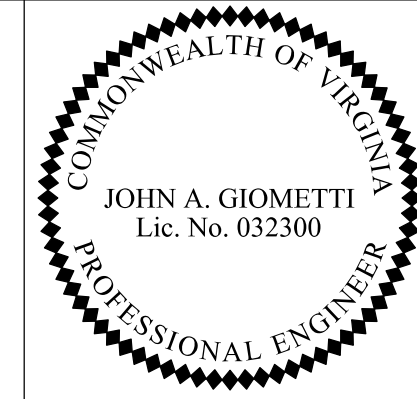
APPROVED FOR CONSTRUCTION

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 Accumark - Michael Taylor, L.S. (703) 635-3060, 12/2021

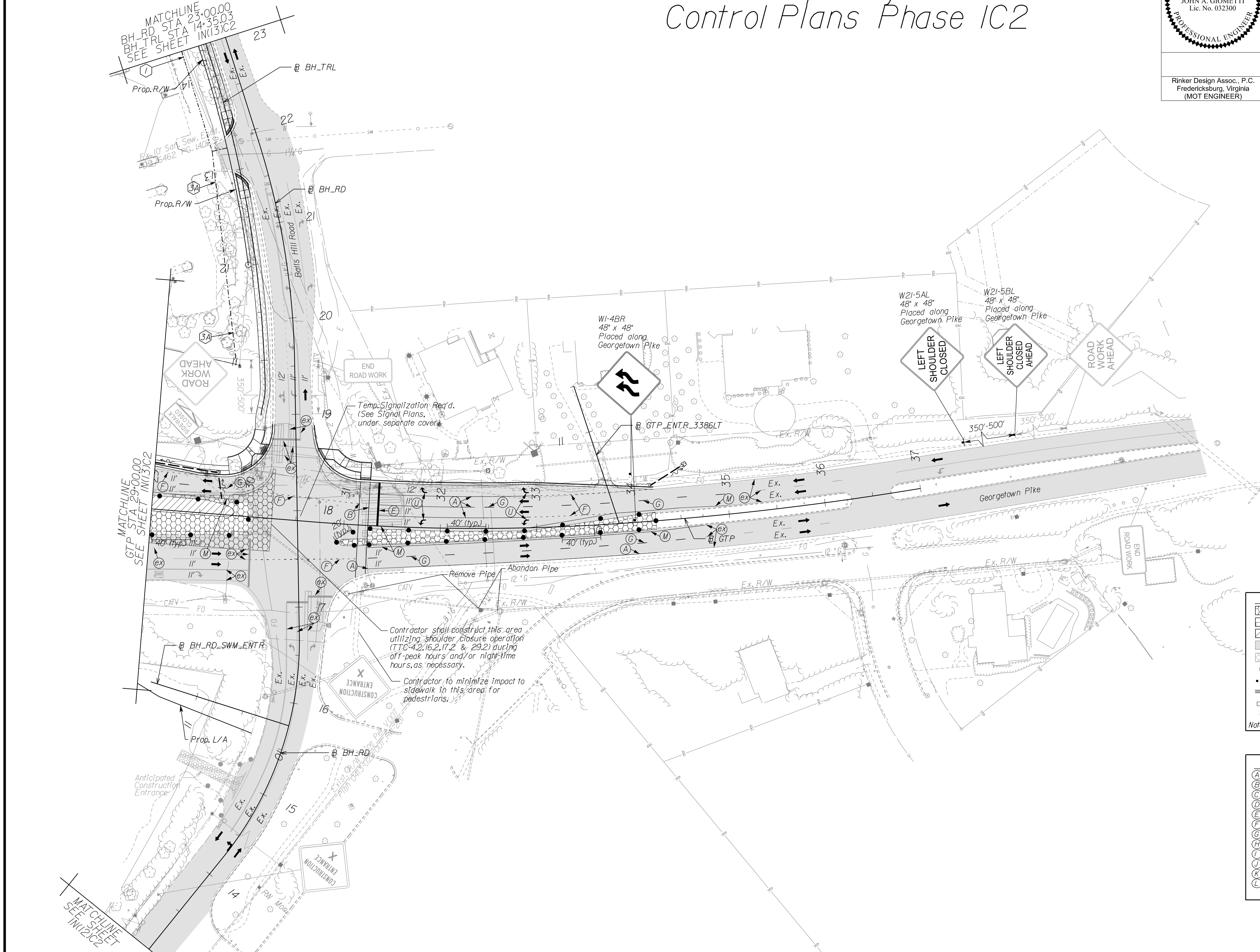
# Temporary Traffic Control Plans Phase 1C2



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	IN1301C2 AREA 3

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 LEGEND.

**Legend**

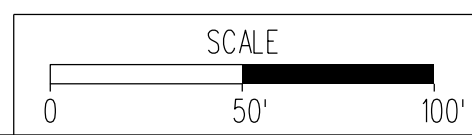
- Denotes Full-Depth Perm. Pavement Construction This Phase
- Denotes Mill & Overlay/Build-Up Construction This Phase
- Denotes Temp. Pavement Construction This Phase
- Denotes Traffic Area
- Denotes Work Area
- Denotes Traffic Flow
- Denotes Group II Channelizing Devices
- Denotes Temporary Concrete 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.

**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, Pave. Mark. Sym./Mess.
(L) 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
(I) White, Yield Marking	(X) Existing Pavement Marking

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



VDOT PROJECT NO. 0495-029-419	SHEET NO. IN1301C2 AREA 3
----------------------------------	---------------------------------

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  
 SUBSURFACE UTILITY BY, DATE Accumark - Michael Taylor, LS, (703) 635-3060, 12/2021

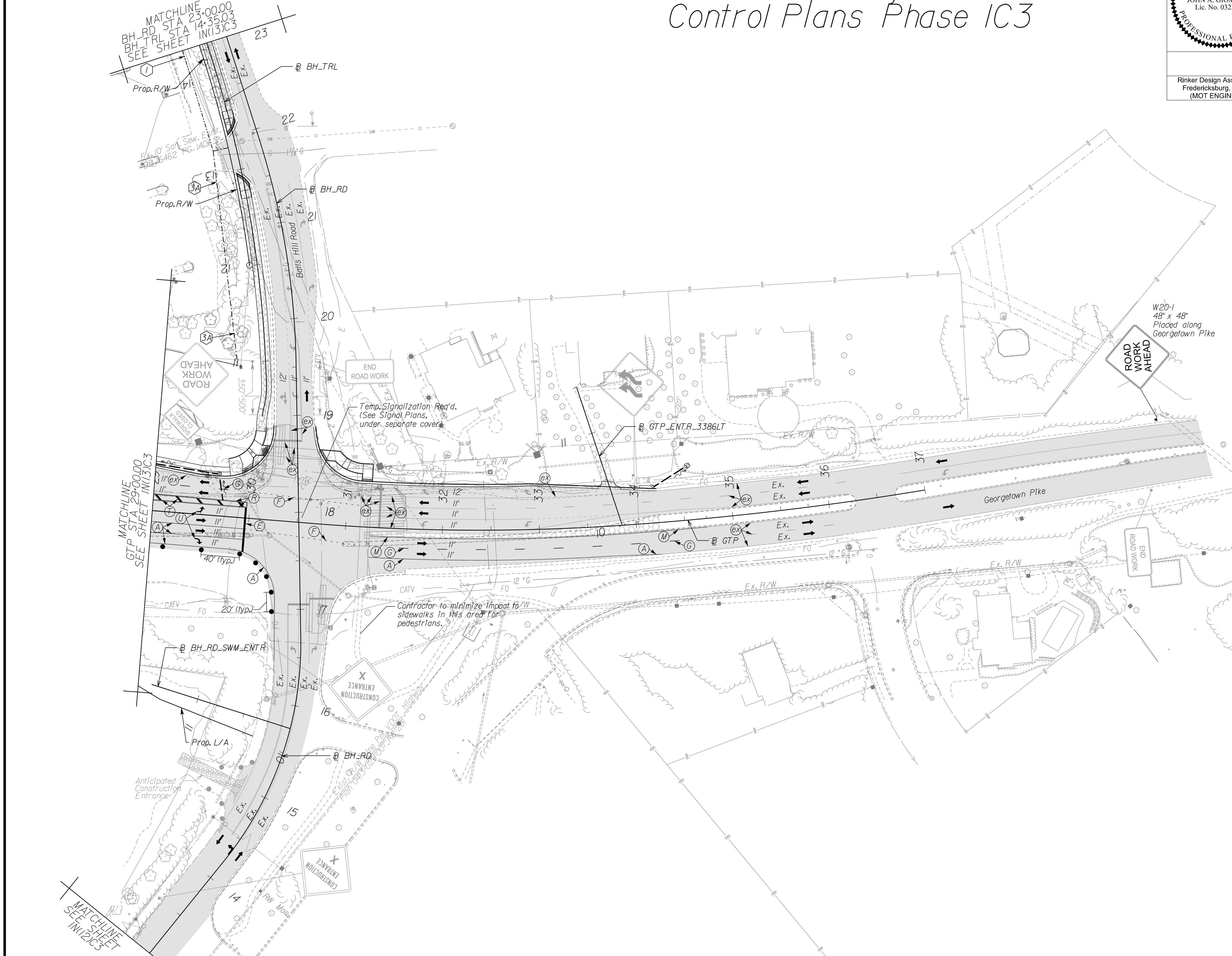
# Temporary Traffic Control Plans Phase 1C3

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	IN130C3 AREA 3

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 LEGEND.

**Legend**

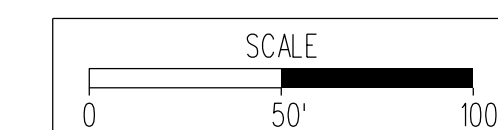
- Denotes Full-Depth Perm. Pavement Construction This Phase
- Denotes Mill & Overlay/Build-Up Construction This Phase
- Denotes Temp. Pavement Construction This Phase
- Denotes Traffic Area
- Denotes Work Area
- Denotes Traffic Flow
- Denotes Group II Channelizing Devices
- Denotes Temporary Concrete 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.

**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.
(I) 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.



VDOT PROJECT NO. 0495-029-419	SHEET NO. IN130C3 AREA 3
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APPROVED FOR CONSTRUCTION

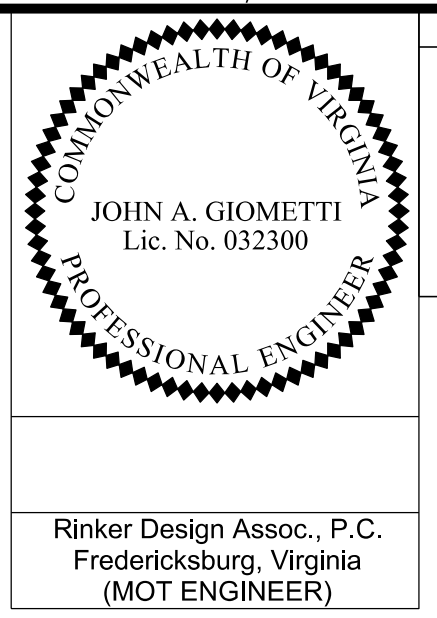
NOVA DISTRICT



PROJECT MANAGER\_VDOT - Rinaldi, Srah, 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 - Rao, Jakomilich, PE, (703) 849-0651  
 SUBSURFACE UTILITY BY, DATE\_Accurmark - Michael, Taylor, LS, (703) 635-3060, 12/2021

# Temporary Traffic Control Plans Phase 1C

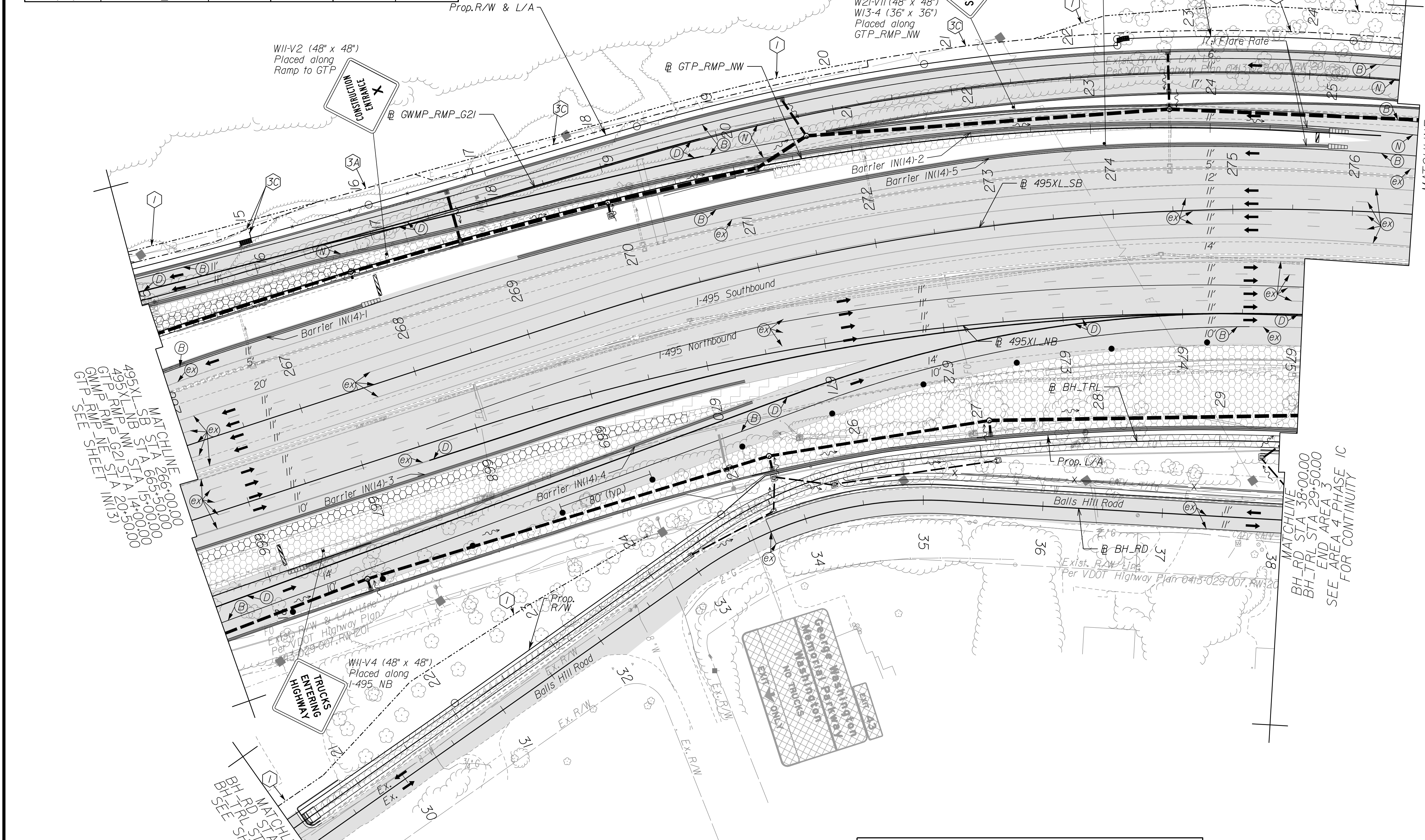
NAME	BL	BEGIN		END	
		STATION	OFFSET	STATION	OFFSET
1N(14)-1	495XL_SB	SEE SHEET 1N(13)		267+75	66.01' LT
1N(14)-2	495XL_SB	SEE SHEET 1N(13)		275+79	66.44' LT
1N(14)-3	495XL_NB	SEE SHEET 1N(13)		670+28	18.90' RT
1N(14)-4	495XL_NB	666+29	65.86' RT	670+31	37.17' RT
1N(14)-5	495XL_SB	269+11	63.85' LT	275+78	53.41' LT



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(14) AREA 3

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  
 END AREA 3  
 SEE AREA 4 PHASE 1C  
 FOR CONTINUITY

MATCHLINE  
 BH\_RD STA 38+00.00  
 BH\_TR STA 29+50.00  
 END AREA 3  
 SEE AREA 4 PHASE 1C  
 FOR CONTINUITY

MATCHLINE  
 495XL\_NB STA 266+00.00  
 495XL\_SB STA 665+00.00  
 495XL\_NB STA 15+00.00  
 GTP\_RMP\_G21 STA 20+50.00  
 SEE SHEET IN(13)

MATCHLINE  
 BH\_RD STA 29+00.00  
 BH\_TR STA 20+50.00  
 SEE SHEET IN(13)

**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 2Z FOR RIGHT-OF-WAY LEGEND.

SCALE 0 50' 100'	VDOT PROJECT NO. 0495-029-419	SHEET NO. IN(14) AREA 3
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APPROVED FOR CONSTRUCTION

NOVA DISTRICT

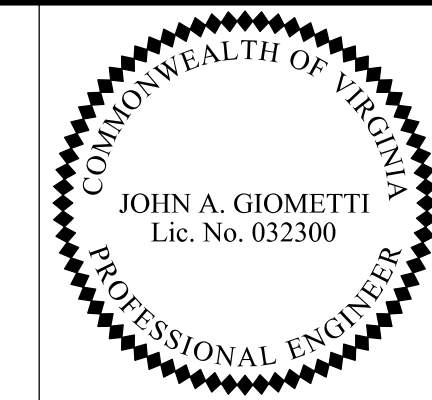






PROJECT MANAGER VDOT - Rupal Shah, P.E. (703) 259-2362  
 SURVEYED BY, DATE RDA - Nicholas Kaugaulis, LS (703) 334-0837, 1/2019  
 DESIGN BY RDA - Darrell Fischer, P.E. (703) 334-0823  
 Dewberry - Ron Jakomilich, P.E. (703) 849-0651  
 SUBSURFACE UTILITY BY, DATE Accumark - Michael Taylor, LS (703)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

# Temporary Traffic Control Plans Phase 1C3

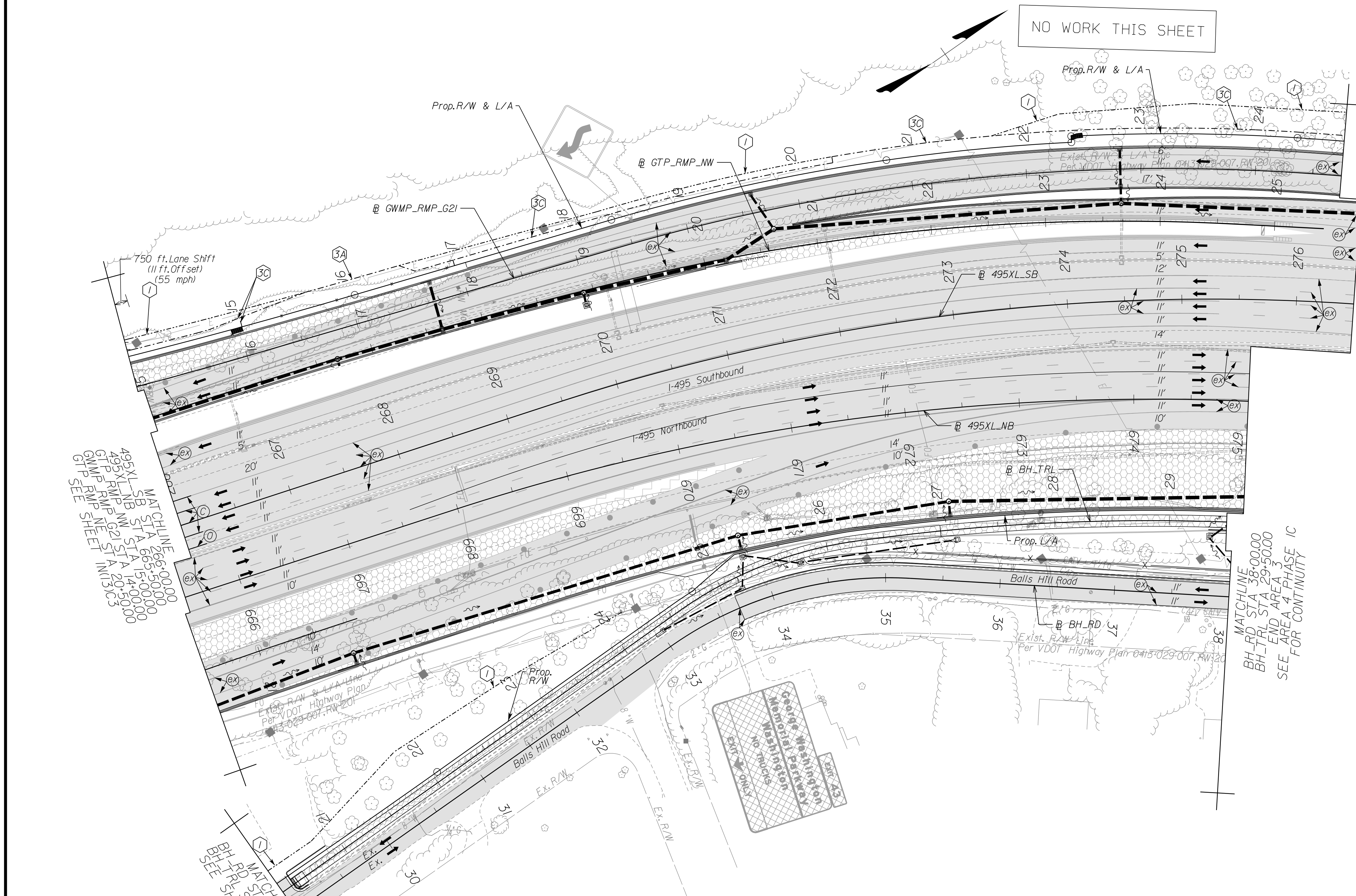


Rinker Design Assoc., P.C.  
 Fredericksburg, Virginia  
 (MOT ENGINEER)

REVISED	STATE	ROUTE	STATE	VDOT PROJECT NO.	SHEET NO.
	VA.	495		0495-029-419 C501 RW201	IN141C3 AREA 3

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



MATCHLINE  
 495XL\_SB STA 266+00.00  
 495XL\_NB STA 266+00.00  
 GTP\_RMP\_NW STA 24+75.00  
 GWMP\_RMP\_G21 STA 24+75.00  
 SEE AREA 3  
 END AREA 3  
 SEE AREA 4 PHASE 1C  
 FOR CONTINUITY

MATCHLINE  
 BH\_RD STA 38+00.00  
 BH\_TFL STA 29+50.00  
 SEE AREA 3  
 END AREA 3  
 SEE AREA 4 PHASE 1C  
 FOR CONTINUITY

MATCHLINE  
 495XL\_NB STA 15+00.00  
 495XL\_SB STA 15+00.00  
 GTP\_RMP\_NW STA 14+50.00  
 GWMP\_RMP\_G21 STA 20+75.00  
 SEE SHEET IN141C3

**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 2Z FOR RIGHT-OF-WAY LEGEND.

SCALE 0 50' 100'	VDOT PROJECT NO. 0495-029-419	SHEET NO. IN141C3 AREA 3
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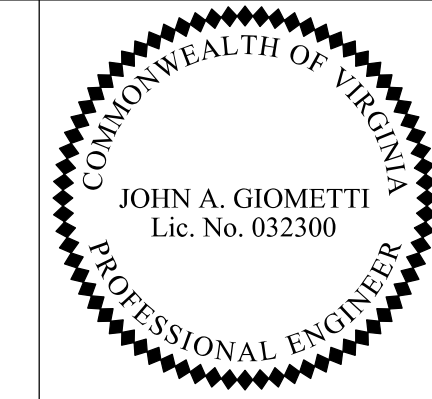
APPROVED FOR CONSTRUCTION

NOVA DISTRICT



PROJECT MANAGER\_VDOT - Rupal Shah, P.E. (703) 259-2362  
 SURVEYED BY, DATE\_RDA - Nicholas Kougoullis, 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 1D



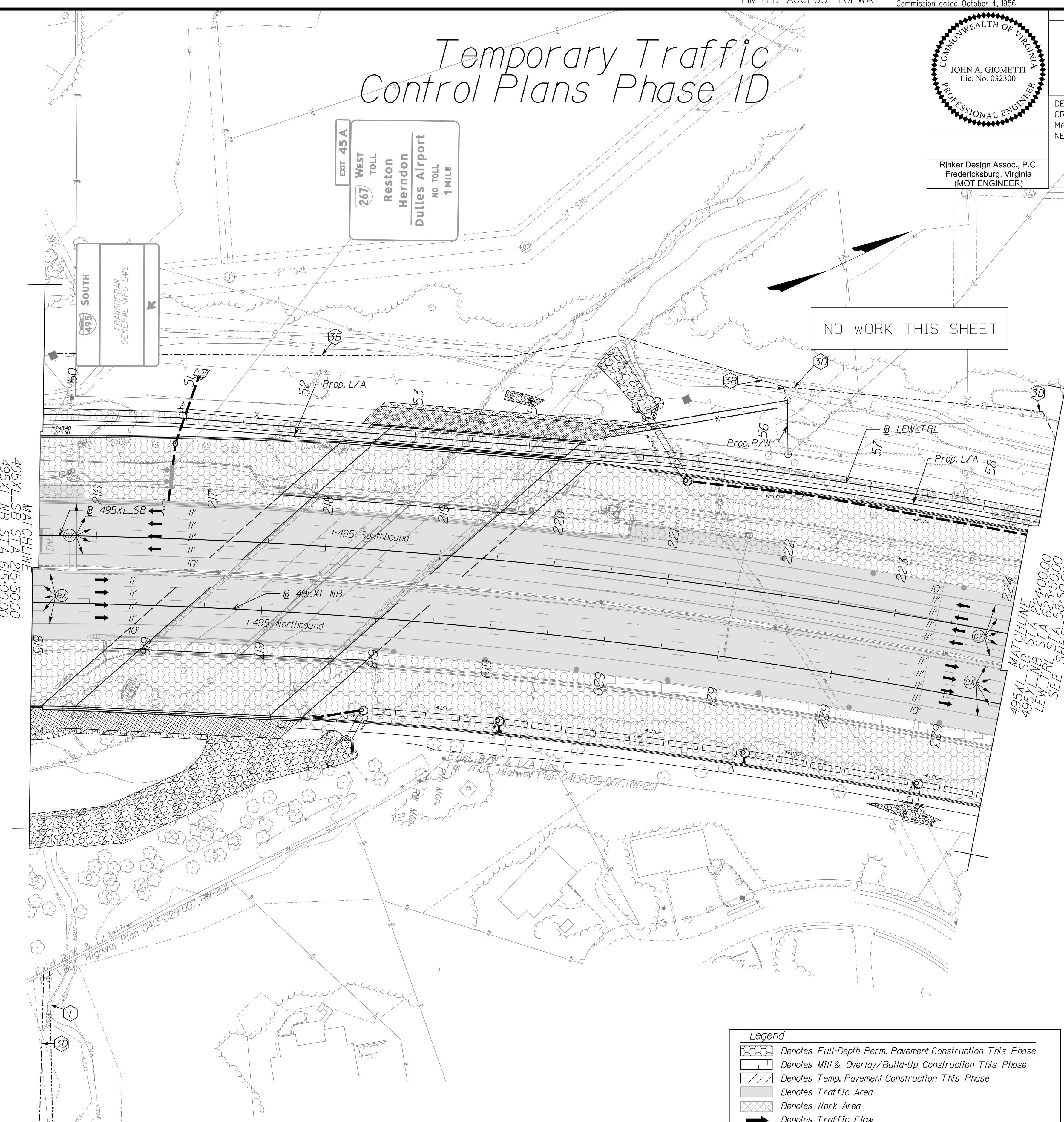
Rinker Design Assoc., P.C.  
 Fredericksburg, Virginia  
 (MOT ENGINEER)

REVISED	STATE	ROUTE	STATE	VDOT PROJECT NO.	SHEET NO.
	VA.	495		0495-029-419 C501 RW201	IP(10) AREA 3

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

495XL SB STA 215+50.00  
 495XL NB STA 615+00.00  
 LEW-TRL STA 49+75.00  
 BEGIN AREA 3  
 SEE AREA 2 PHASE 1B  
 FOR CONTINUITY

MATCHLINE  
 495XL SB STA 224+00.00  
 495XL NB STA 623+50.00  
 LEW-TRL STA 58+50.00  
 SEE SHEET IP(11)



NO WORK THIS SHEET

EXIT 45A  
 WEST TOLL  
 267  
 Reston  
 Herndon  
 Dulles Airport  
 NO TOLL  
 1 MILE

495 SOUTH  
 TRANSURBAN  
 GENERAL INFO DMS

**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 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 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
[Symbol]	Denotes Traffic Flow
[Symbol]	Denotes Group II Channelizing Devices
[Symbol]	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(10) AREA 3
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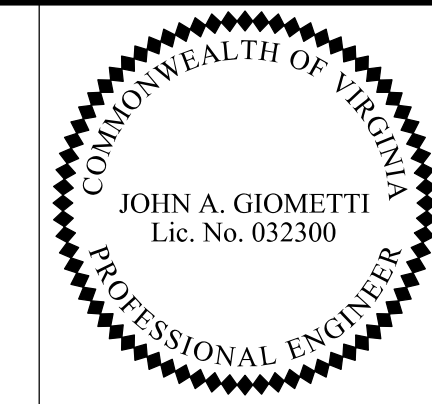
APPROVED FOR CONSTRUCTION

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, 12/2021

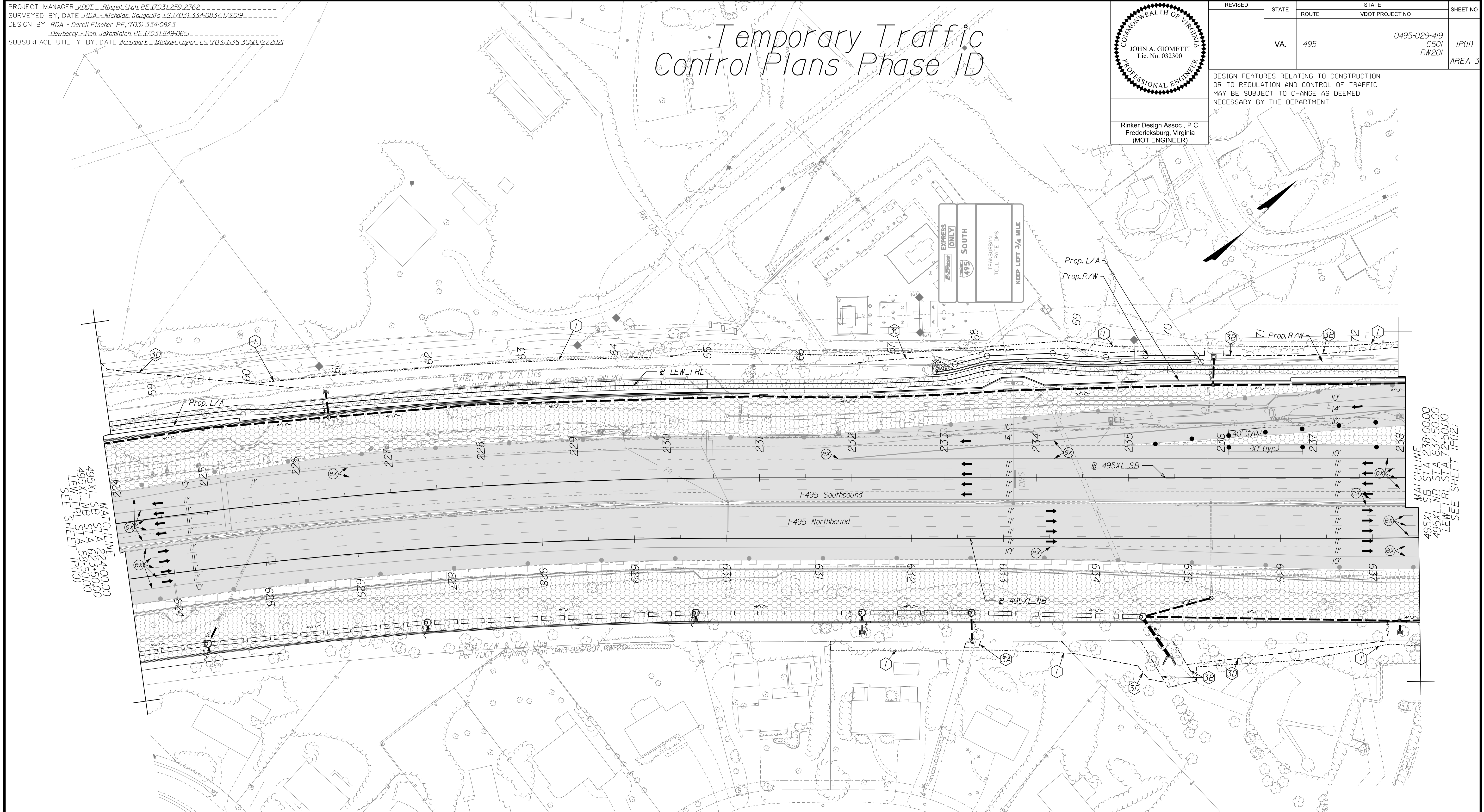
# Temporary Traffic Control Plans Phase ID



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	IP(11) AREA 3

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 224+00.00  
 495XL-NB STA 623+50.00  
 LEW-TRL STA 58+50.00  
 SEE SHEET IP(10)

MATCHLINE  
 495XL-SB STA 238+00.00  
 495XL-NB STA 637+50.00  
 LEW-TRL STA 72+50.00  
 SEE SHEET IP(12)

**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

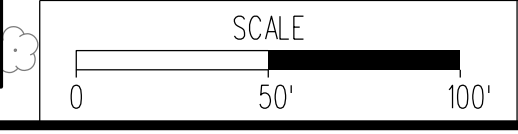
Note: Temporary raised pavement markers shall be installed in accordance with the VWAPM.

**Legend**

[Hatched Pattern]	Denotes Full-Depth Perm. Pavement Construction This Phase
[Diagonal Lines]	Denotes Mill & Overlay/Build-Up Construction This Phase
[Dashed Pattern]	Denotes Temp. Pavement Construction This Phase
[Grey Area]	Denotes Traffic Area
[Cross-hatched Area]	Denotes Work Area
[Arrow]	Denotes Traffic Flow
[Dotted Line]	Denotes Group II Channelizing Devices
[Solid Line]	Denotes Temporary Concrete Barrier
[Dashed Line]	Denotes TL-3, Type I Impact Attenuator
[Zig-zag 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.



VDOT PROJECT NO. 0495-029-419	SHEET NO. IP(11) AREA 3
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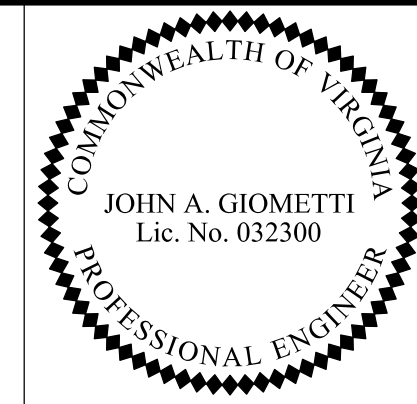
APPROVED FOR CONSTRUCTION

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, 12/2021

# Temporary Traffic Control Plans Phase ID

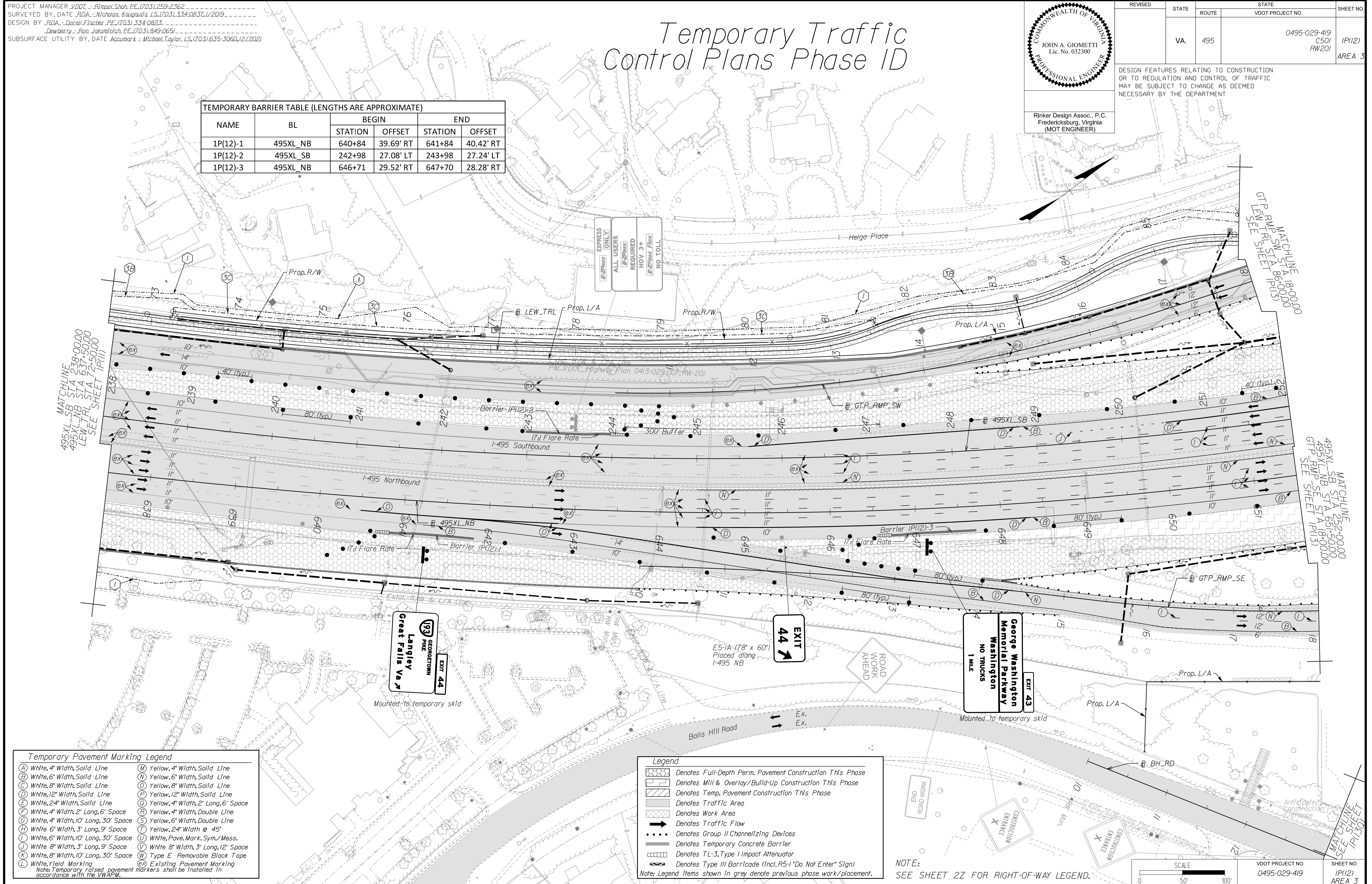


Rinker Design Assoc., P.C.  
 Fredericksburg, Virginia  
 (MOT ENGINEER)

REVISED	STATE	ROUTE	STATE	VDOT PROJECT NO.	SHEET NO.
	VA.	495		0495-029-419 C501 RW201	IP(12) AREA 3

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
1P(12)-1	495XL_NB	640+84	39.69' RT	641+84	40.42' RT
1P(12)-2	495XL_SB	242+98	27.08' LT	243+98	27.24' LT
1P(12)-3	495XL_NB	646+71	29.52' RT	647+70	28.28' RT



(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.

(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.

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

SCALE 0 50' 100'	VDOT PROJECT NO. 0495-029-419	SHEET NO. IP(12) AREA 3
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APPROVED FOR CONSTRUCTION

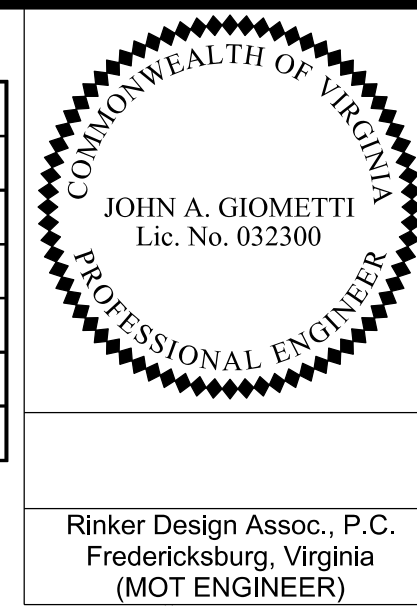


PROJECT MANAGER\_VDOT - Rupal Shah, PE, (703) 259-2362  
 SURVEYED BY, DATE\_RDA - Nicholas Kougoullis, LS, (703) 334-0837, 1/2019  
 DESIGN BY\_RDA - Darrell Fischer, PE, (703) 334-0823  
 SUBSURFACE UTILITY BY, DATE\_Accumark - Michael Taylor, LS, (703) 635-3060, 12/2021

MATCHLINE  
 GTP STA 20+50.00  
 SEE SHEET IP(13N)

# Temporary Traffic Control Plans Phase ID

NAME	BL	BEGIN				END	
		STATION	OFFSET	STATION	OFFSET	STATION	OFFSET
1P(13)-1	495XL_SB	255+41	31.15' LT	SEE SHEET 1P(14)			
1P(13)-2	495XL_SB	254+99	30.35' RT	256+82	28.70' RT		
1P(13)-3	495XL_NB	654+17	26.78' LT	655+95	28.91' LT		
1P(13)-4	495XL_NB	654+10	31.36' RT	655+98	30.07' RT		

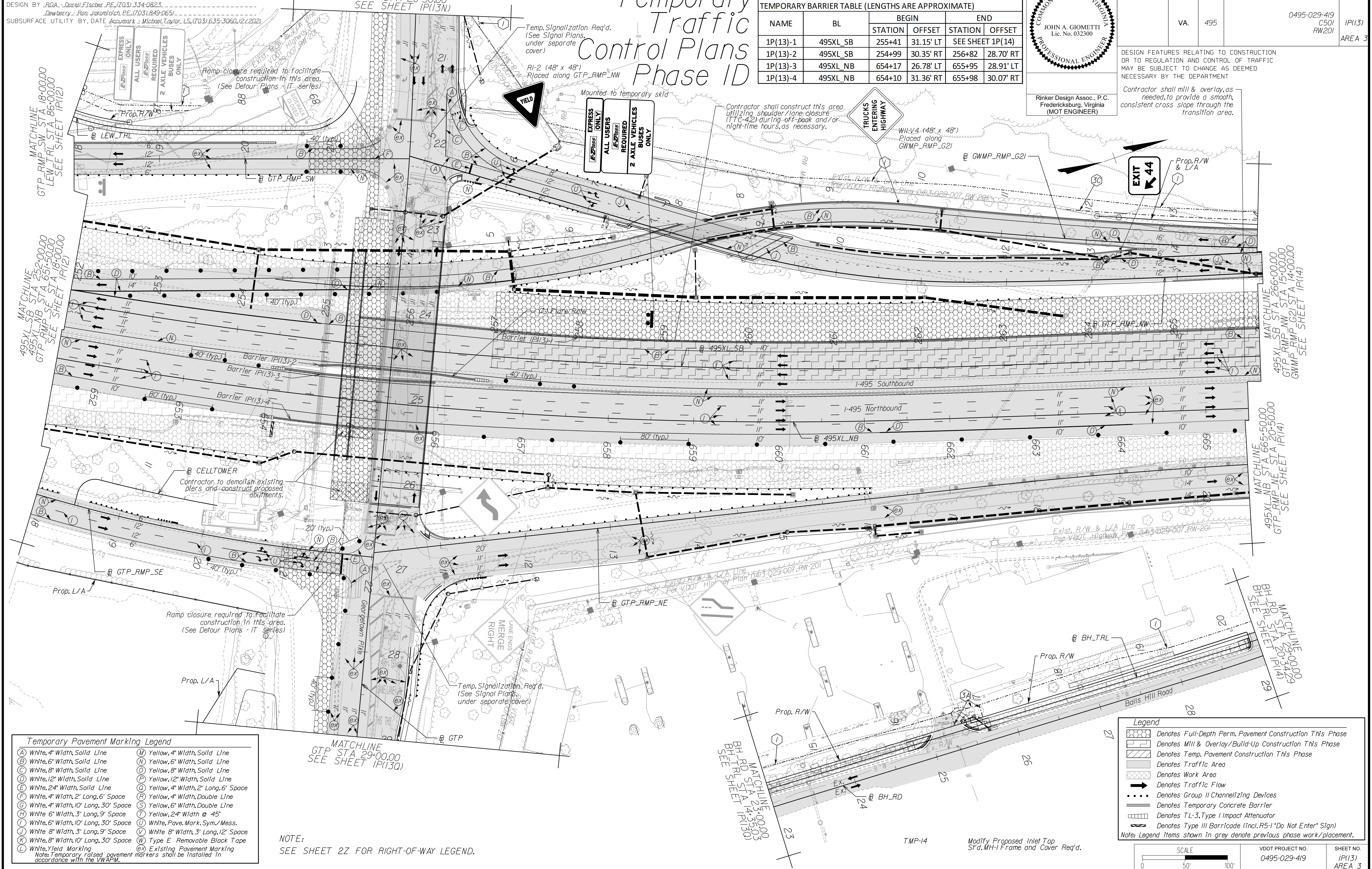


REVISION	STATE	ROUTE	STATE	VDOT PROJECT NO.	SHEET NO.
	VA	495		0495-029-419 C501 RW201	IP(13) AREA 3

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 mill & overlay, as needed, to provide a smooth, consistent cross slope through the transition area.

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.

NOTE:  
 SEE SHEET 22 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. IP(13) AREA 3
---------------------	----------------------------------	-------------------------------

APPROVED FOR CONSTRUCTION



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

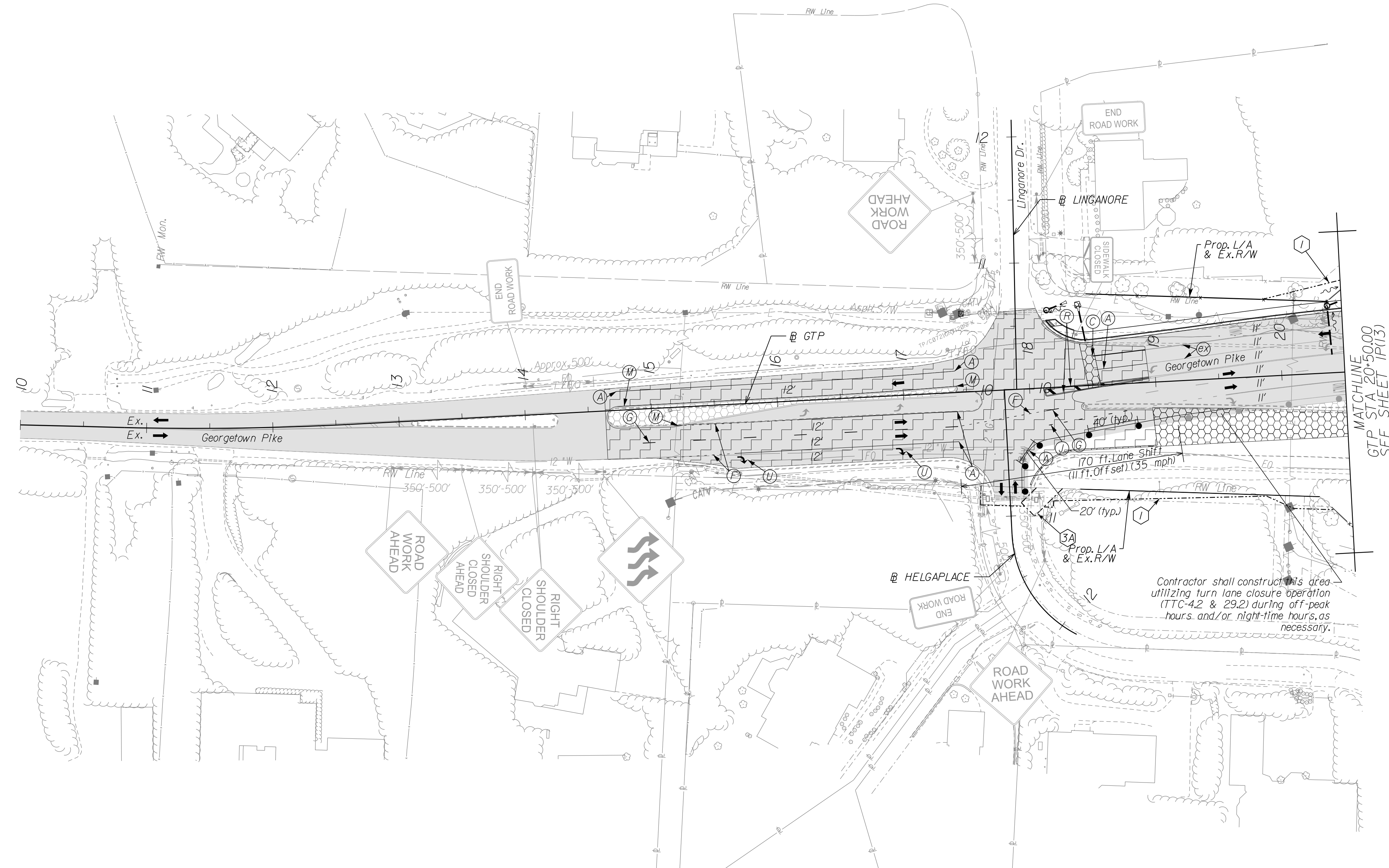
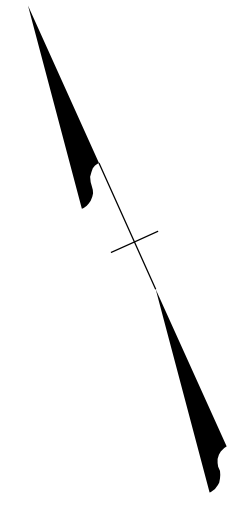
# Temporary Traffic Control Plans Phase ID

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	IP(13N) AREA 3

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



MATCHLINE  
GTP STA 20+50.00  
SEE SHEET IP(13)

Contractor shall construct this area utilizing turn lane closure operation (TTC-4.2 & 29.2) during off-peak hours and/or night-time hours, as necessary.

NOVA DISTRICT

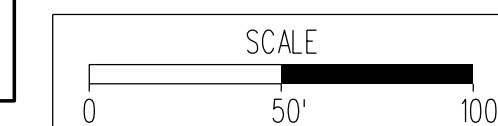
(A) White, 4" Width, Solid Line	(M) Yellow, 4" Width, Solid Line
(B) White, 6" Width, Solid Line	(N) Yellow, 6" Width, Solid Line
(C) White, 8" Width, Solid Line	(O) Yellow, 8" Width, Solid Line
(D) White, 12" Width, Solid Line	(P) Yellow, 12" Width, Solid Line
(E) White, 24" Width, Solid Line	(Q) Yellow, 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°
(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
(M) 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 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.



VDOT PROJECT NO. 0495-029-419	SHEET NO. IP(13N) AREA 3
----------------------------------	--------------------------------

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

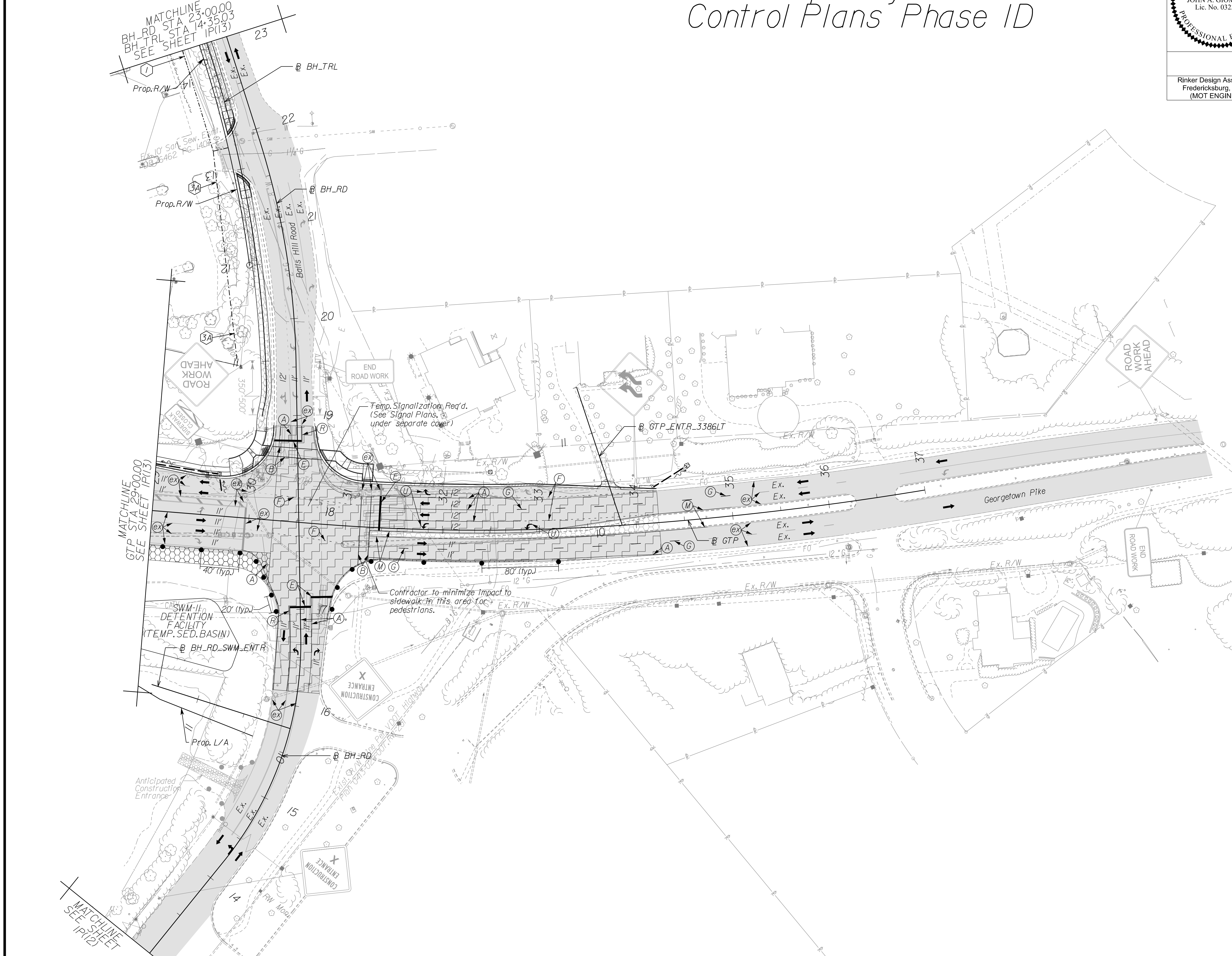
# Temporary Traffic Control Plans Phase ID

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(130) AREA 3

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 LEGEND.

**Legend**

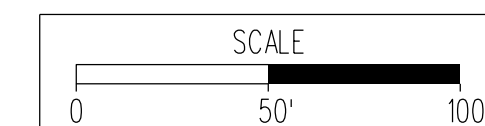
- Denotes Full-Depth Perm. Pavement Construction This Phase
- Denotes Mill & Overlay/Build-Up Construction This Phase
- Denotes Temp. Pavement Construction This Phase
- Denotes Traffic Area
- Denotes Work Area
- Denotes Traffic Flow
- Denotes Group II Channelizing Devices
- Denotes Temporary Concrete 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.

**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.
(I) 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.



VDOT PROJECT NO. 0495-029-419	SHEET NO. 1P(130) AREA 3
----------------------------------	--------------------------------

APPROVED FOR CONSTRUCTION

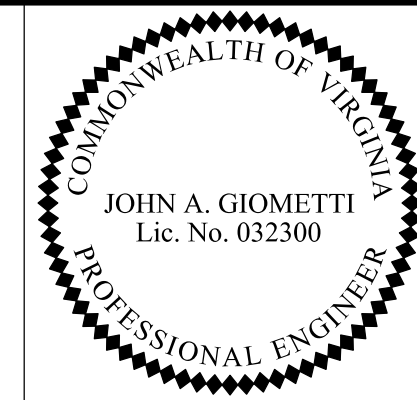
NOVA DISTRICT



PROJECT MANAGER\_VDOT - Rupal Shah, PE, (703) 259-2362  
 SURVEYED BY, DATE\_RDA - Nicholas Kaugauls, LS, (703) 334-0837, 1/2019  
 DESIGN BY\_RDA - Darrell Fischer, PE, (703) 334-0823  
 SUBSURFACE UTILITY BY, DATE\_Accurark - Michael Taylor, LS, (703) 635-3060, 12/2021

# Temporary Traffic Control Plans Phase ID

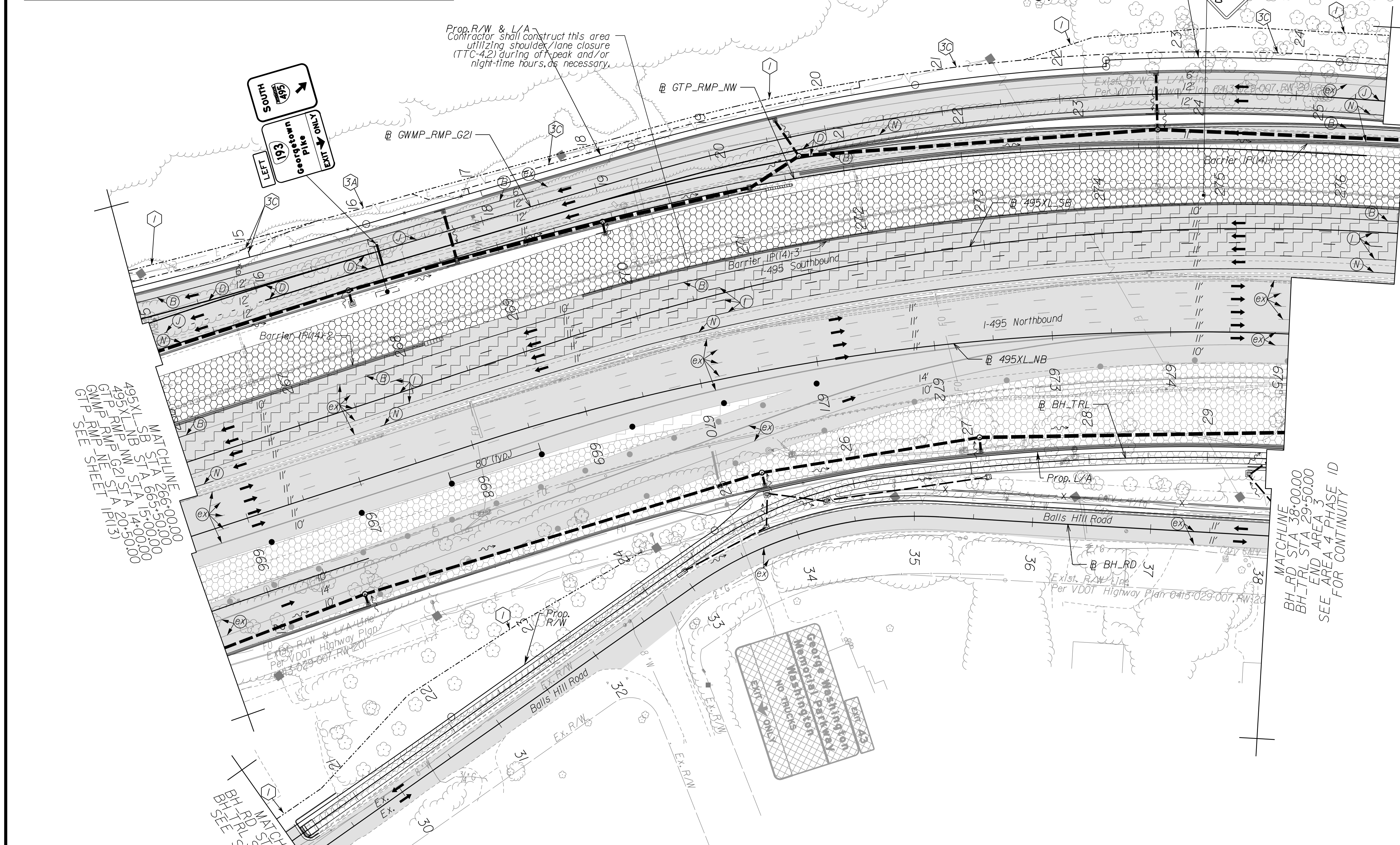
TEMPORARY BARRIER TABLE (LENGTHS ARE APPROXIMATE)					
NAME	BL	BEGIN		END	
		STATION	OFFSET	STATION	OFFSET
1P(14)-1	GTP_RMP_NW	20+62	3.16' LT	SEE AREA 4	
1P(14)-2	495XL_SB	SEE SHEET 1P(13)	268+22	32.55' LT	
1P(14)-3	495XL_SB	269+61	30.07' LT	SEE AREA 4	



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	IP(14) AREA 3

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 266+00.00  
 495XL\_NB STA 15+00.00  
 GTP\_RMP\_NW STA 14+00.00  
 GWMP\_RMP\_G21 STA 20+34.29  
 SEE SHEET 1P(13)

MATCHLINE  
 BH\_LRL STA 38+00.00  
 BH\_TFL STA 29+50.00  
 SEE AREA 3  
 SEE AREA 4 PHASE ID  
 FOR CONTINUITY

Temporary Pavement Marking Legend			
(A) White, 4" Width, Solid Line	(M) Yellow, 4" Width, Solid Line	(S) White, 6" Width, 3' Long, 9" Space	(V) White, 8" Width, 3' Long, 12" Space
(B) White, 6" Width, Solid Line	(N) Yellow, 6" Width, Solid Line	(T) White, 6" Width, 10' Long, 30' Space	(W) White, 8" Width, 3' Long, 9" Space
(C) White, 8" Width, Solid Line	(O) Yellow, 8" Width, Solid Line	(U) White, 6" Width, 10' Long, 30' Space	(X) White, 8" Width, 3' Long, 9" Space
(D) White, 12" Width, Solid Line	(P) Yellow, 12" Width, Solid Line	(L) White, 6" Width, 10' Long, 30' Space	(Y) White, 8" Width, 3' Long, 9" Space
(E) White, 24" Width, Solid Line	(Q) Yellow, 4" Width, 2' Long, 6' Space	(R) White, 6" Width, 10' Long, 30' Space	(Z) White, 8" Width, 3' Long, 9" Space
(F) White, 4" Width, 2' Long, 6' Space	(R) Yellow, 4" Width, Double Line	(S) White, 6" Width, 10' Long, 30' Space	(AA) White, 8" Width, 3' Long, 9" Space
(G) White, 4" Width, 10' Long, 30' Space	(S) Yellow, 6" Width, Double Line	(T) White, 6" Width, 10' Long, 30' Space	(AB) White, 8" Width, 3' Long, 9" Space
(H) White, 6" Width, 3' Long, 9" Space	(T) Yellow, 24" Width @ 45'	(U) White, 6" Width, 10' Long, 30' Space	(AC) White, 8" Width, 3' Long, 9" Space
(I) White, 6" Width, 10' Long, 30' Space	(V) White, 8" Width, 3' Long, 12" Space	(L) White, 6" Width, 10' Long, 30' Space	(AD) White, 8" Width, 3' Long, 9" Space
(J) White, 8" Width, 3' Long, 9" Space	(W) Type E Removable Black Tape	(M) Yellow, 4" Width, Solid Line	(AE) White, 8" Width, 3' Long, 9" Space
(K) White, 8" Width, 10' Long, 30' Space	(N) Yellow, 6" Width, Solid Line	(O) Yellow, 6" Width, Solid Line	(AF) White, 8" Width, 3' Long, 9" Space
(L) White, 6" Width, 10' Long, 30' Space	(P) Yellow, 12" Width, Solid Line	(Q) Yellow, 4" Width, 2' Long, 6' Space	(AG) White, 8" Width, 3' Long, 9" Space

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
[Symbol]	Denotes Traffic Flow
[Symbol]	Denotes Group II Channelizing Devices
[Symbol]	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(14) AREA 3
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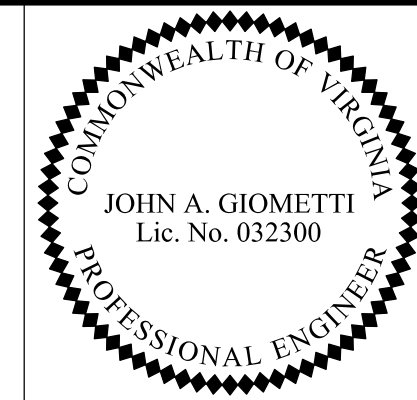
APPROVED FOR CONSTRUCTION

NOVA DISTRICT



PROJECT MANAGER VDOT - Rupal Shah, P.E. (703) 259-2362  
 SURVEYED BY, DATE RDA - Nicholas Kougoullis, LS (703) 334-0837, 1/2019  
 DESIGN BY RDA - Darrell Fischer, P.E. (703) 334-0823  
 Dewberry - Ron Jakomajich, P.E. (703) 849-0651  
 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(10) AREA 3

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

495XL SB STA 215+50.00  
 495XL NB STA 615+00.00  
 LEW-TRL STA 497+50.00  
 BEGIN AREA 3  
 SEE AREA 2 PHASE 1B  
 FOR CONTINUITY

MATCHLINE  
 495XL SB STA 224+00.00  
 495XL NB STA 623+50.00  
 LEW-TRL STA 558+50.00  
 SEE SHEET 10(11)

NOVA DISTRICT

10/16/2022

### 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 Symbol / 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
(M) White, Yield Marking	(X) Existing Pavement Marking

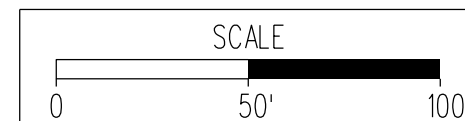
Note: Temporary raised pavement markers shall be installed in accordance with the VWAPM.

### 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.

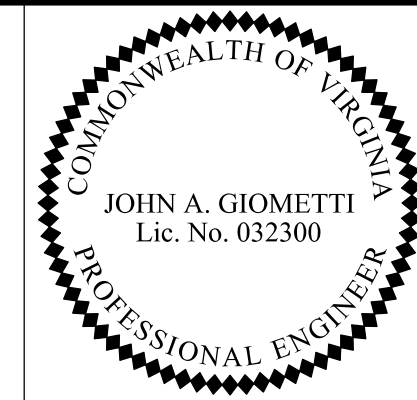


VDOT PROJECT NO. 0495-029-419	SHEET NO. 10(10) AREA 3
----------------------------------	-------------------------------

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  
 Dewberry - Ron Jakomilich, PE, (703) 849-0651  
 SUBSURFACE UTILITY BY, DATE Accumark - Michael Taylor, LS, (703) 635-3060, 12/2021



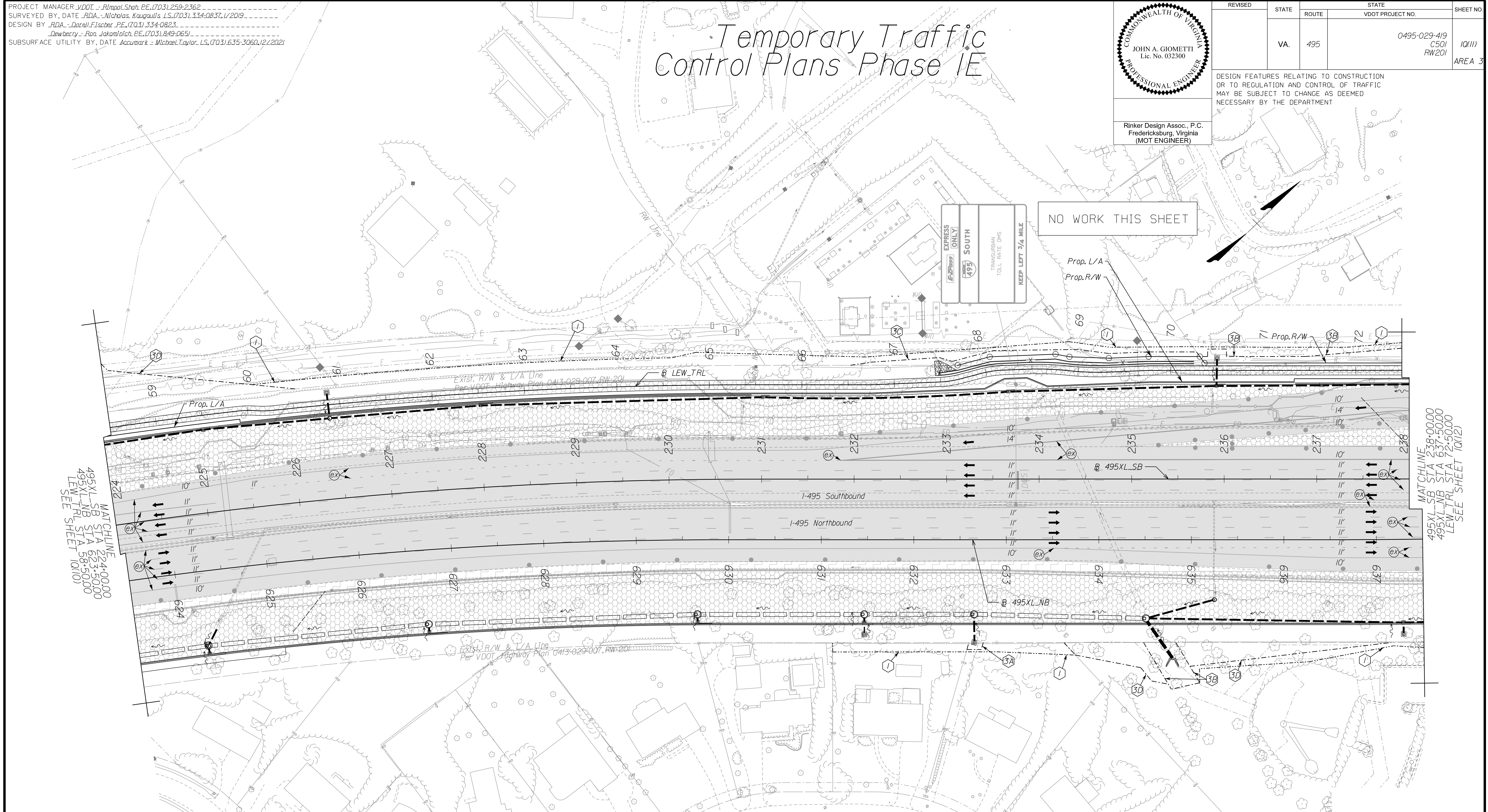
Rinker Design Assoc., P.C.  
 Fredericksburg, Virginia  
 (MOT ENGINEER)

REVISED	STATE	ROUTE	STATE	VDOT PROJECT NO.	SHEET NO.
	VA.	495		0495-029-419 C501 RW201	10(11) AREA 3

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 I E

NO WORK THIS SHEET



MATCHLINE  
 495XL-SB STA 224+00.00  
 495XL-NB STA 623+50.00  
 LEW-TRL STA 58+50.00  
 SEE SHEET 10(10)

MATCHLINE  
 495XL-SB STA 239+00.00  
 495XL-NB STA 637+50.00  
 LEW-TRL STA 72+50.00  
 SEE SHEET 10(12)

**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	10(11) AREA 3

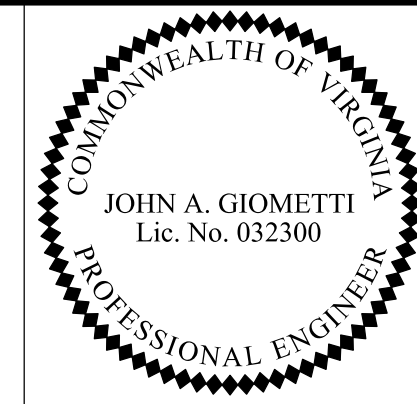
APPROVED FOR CONSTRUCTION

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 Accumark - Michael Taylor, L.S. (703) 635-3060, 12/2021

# Temporary Traffic Control Plans Phase 1E

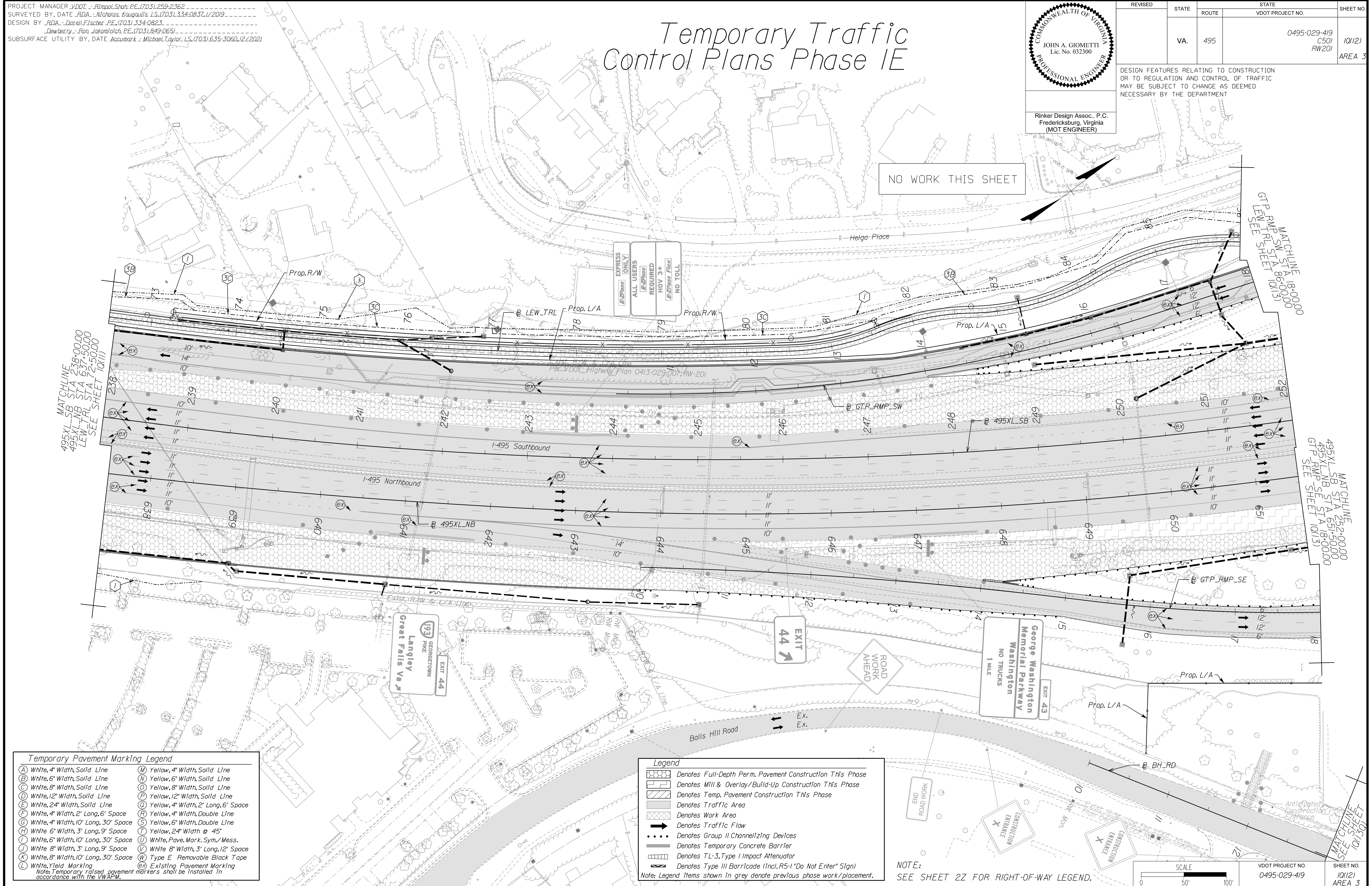


Rinker Design Assoc., P.C.  
 Fredericksburg, Virginia  
 (MOT ENGINEER)

REVISED	STATE	ROUTE	STATE	VDOT PROJECT NO.	SHEET NO.
	VA.	495		0495-029-419 C501 RW201	1Q12) AREA 3

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**

- 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.



VDOT PROJECT NO.	SHEET NO.
0495-029-419	1Q12) AREA 3

APPROVED FOR CONSTRUCTION

NOVA DISTRICT

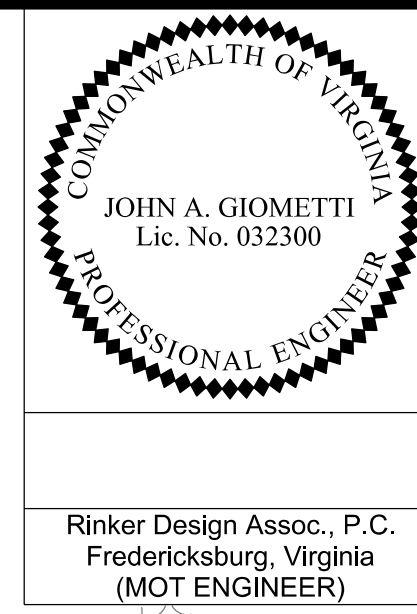
10/16/2022



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

MATCHLINE  
GTP STA 20+50.00  
SEE SHEET 10(13N)

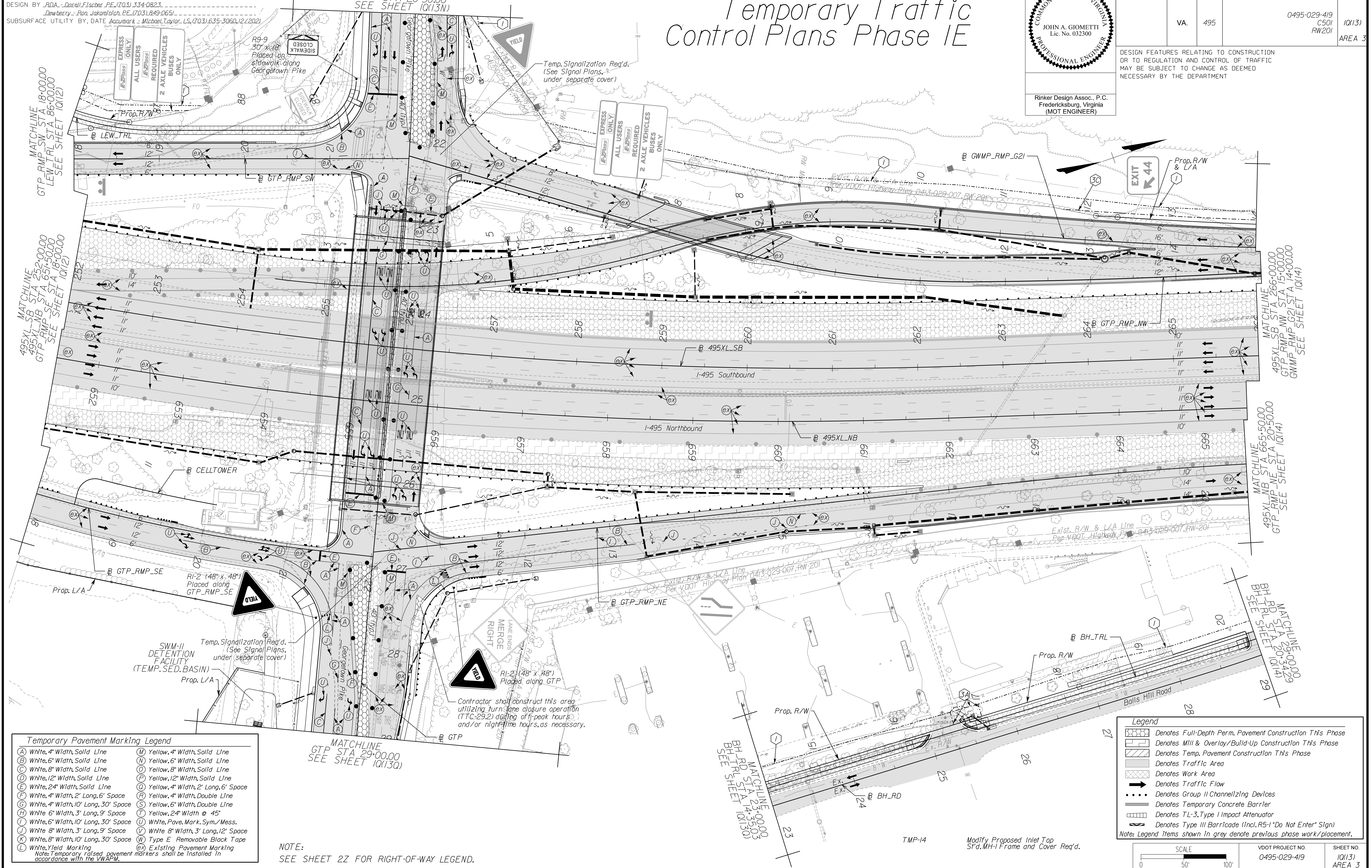
# Temporary Traffic Control Plans Phase 1E



REVISED	STATE	ROUTE	STATE	VDOT PROJECT NO.	SHEET NO.
	VA.	495		0495-029-419 C501 RW201	10(13) AREA 3

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 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.

NOTE:  
SEE SHEET 22 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 work/placement.

SCALE 0 50' 100'	VDOT PROJECT NO. 0495-029-419	SHEET NO. 10(13) AREA 3
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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, 1/2019  
 DESIGN BY RDA - Darrell Fischer, P.E. (703) 334-0823  
 SUBSURFACE UTILITY BY, DATE Accumark - Michael Taylor, LS (703) 635-3060, 12/2021

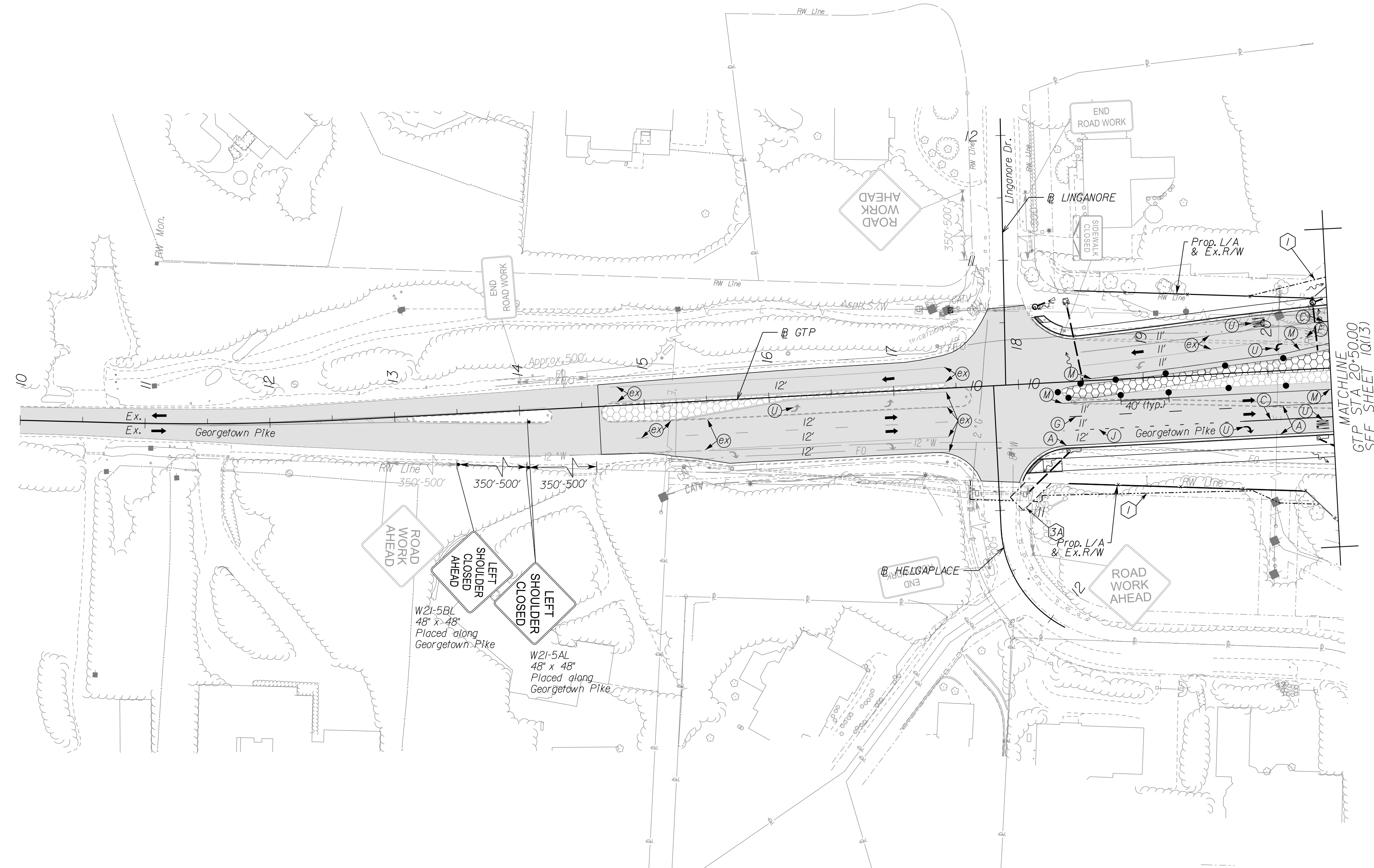
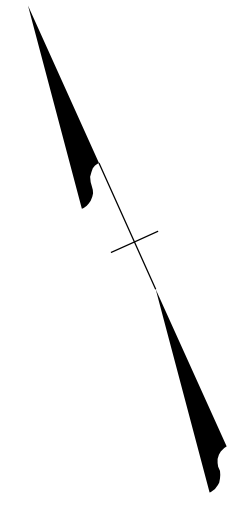
# Temporary Traffic Control Plans Phase 1E

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

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

REVISED	STATE	ROUTE	STATE PROJECT NO.	SHEET NO.
	VA.	495	0495-029-419 C501 RW201	10(13N) AREA 3

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
[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(13N) AREA 3
---------------------	----------------------------------	--------------------------------

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

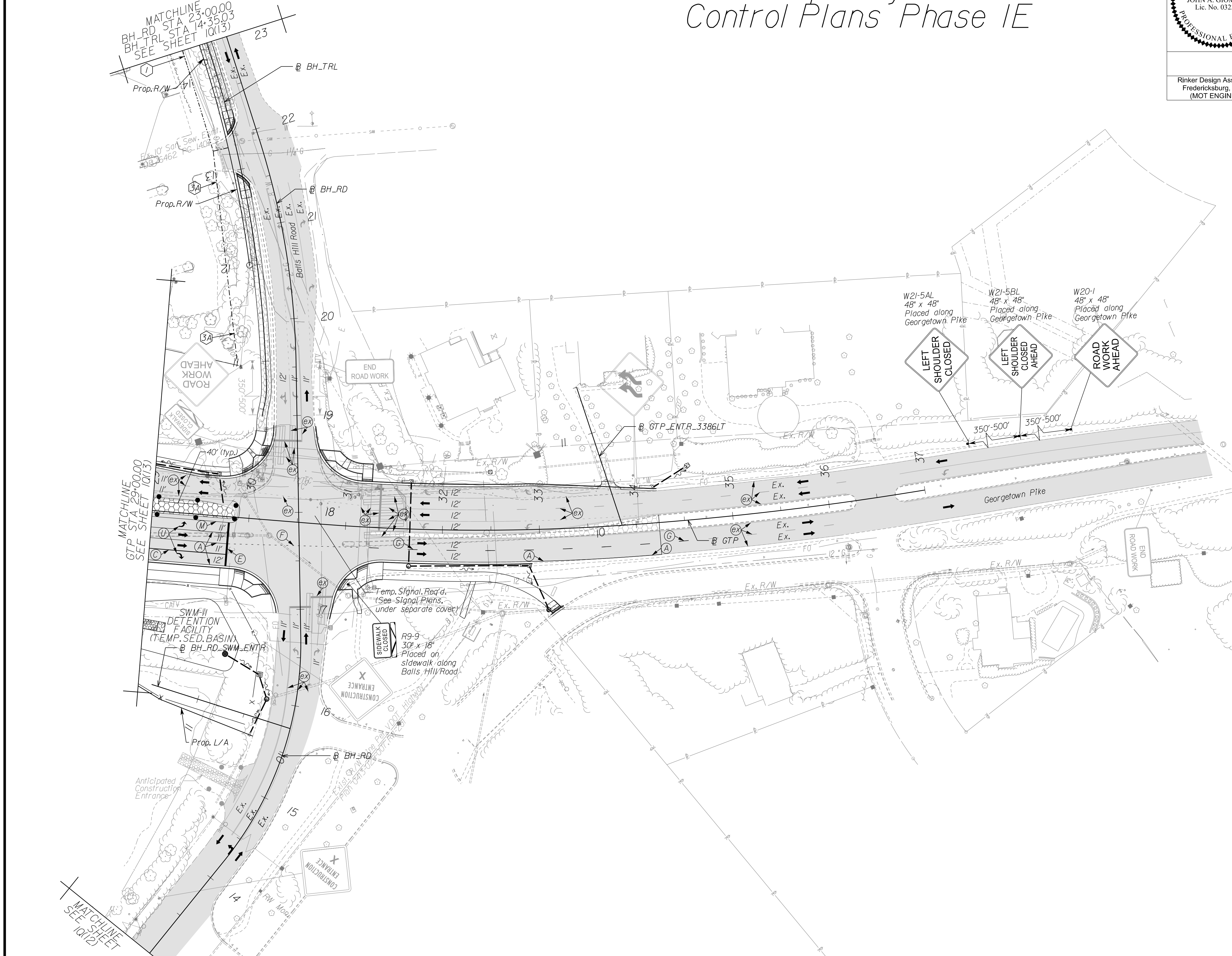
# Temporary Traffic Control Plans Phase 1E

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(130) AREA 3

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 LEGEND.

**Legend**

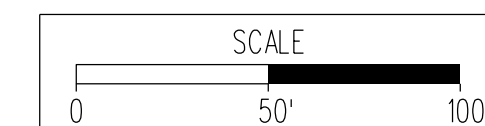
- Denotes Full-Depth Perm. Pavement Construction This Phase
- Denotes Mill & Overlay/Build-Up Construction This Phase
- Denotes Temp. Pavement Construction This Phase
- Denotes Traffic Area
- Denotes Work Area
- Denotes Traffic Flow
- Denotes Group II Channelizing Devices
- Denotes Temporary Concrete 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.

**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.
(I) 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.



VDOT PROJECT NO. 0495-029-419	SHEET NO. 10(130) AREA 3
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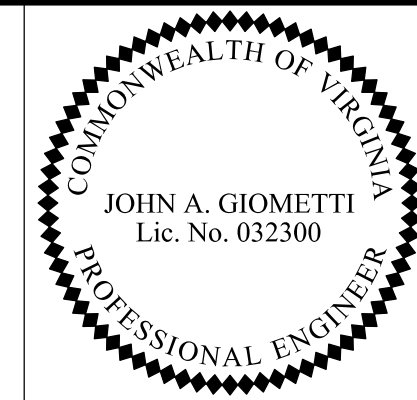
APPROVED FOR CONSTRUCTION

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  
Dewberry - Ron Jakomilich, PE, (703) 849-0651  
SUBSURFACE UTILITY BY, DATE Accumark - Michael Taylor, LS, (703) 635-3060, 12/2021

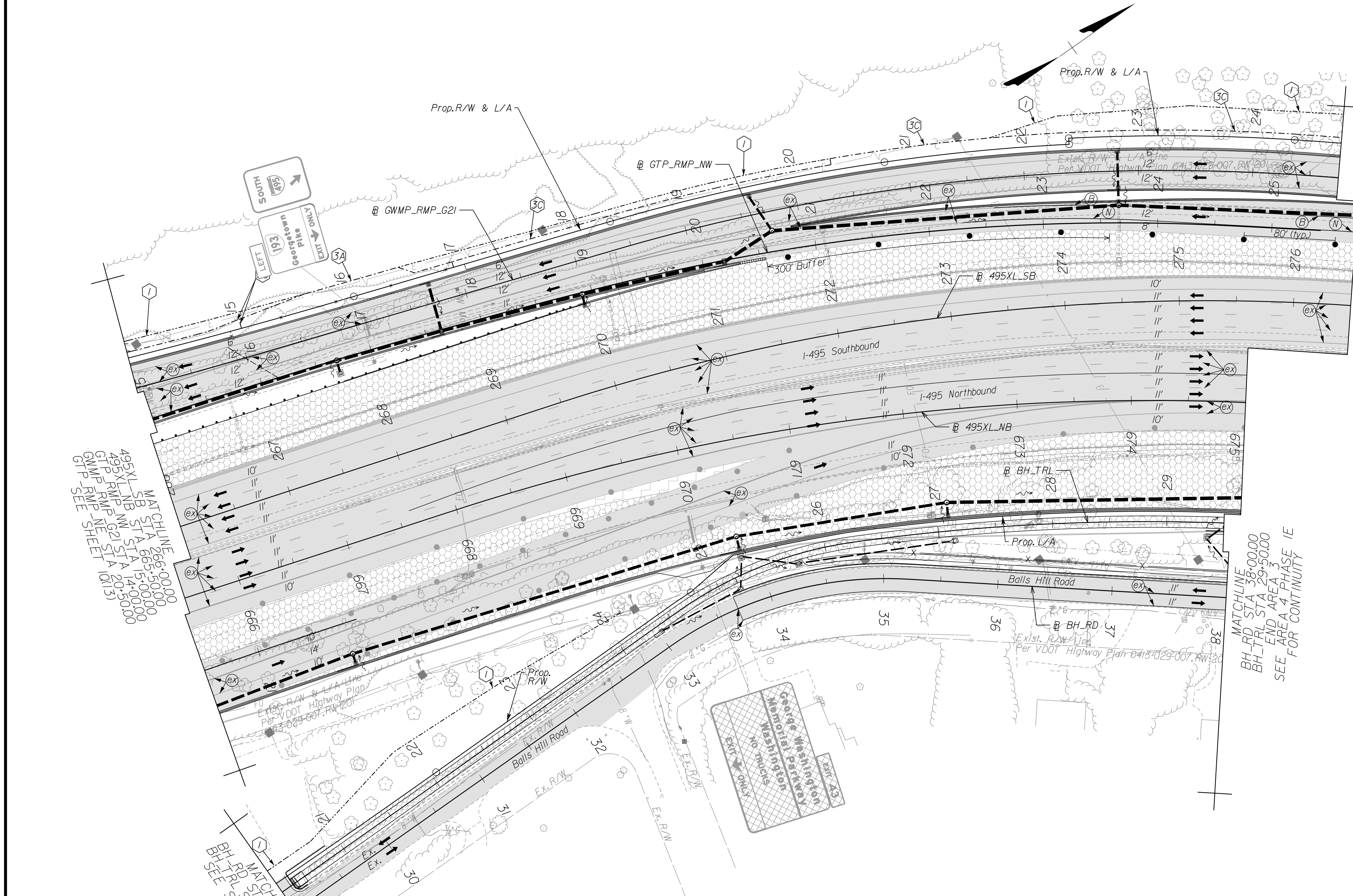
# Temporary Traffic Control Plans Phase 1E



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(14) AREA 3

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 266+00.00  
495XL NB STA 675+00.00  
GTP\_RMP\_NW STA 24+75.00  
END AREA 3  
SEE AREA 4 PHASE 1E  
FOR CONTINUITY

MATCHLINE  
BH-LTRL STA 38+00.00  
BH-LRL STA 29+50.00  
END AREA 3  
SEE AREA 4 PHASE 1E  
FOR CONTINUITY

MATCHLINE  
495XL NB STA 665+00.00  
495XL NB STA 15+00.00  
GTP\_RMP\_NW STA 20+50.00  
GWMP\_RMP\_NE STA 10(13)  
SEE SHEET

MATCHLINE  
BH-LTRL STA 25+00.00  
BH-LRL STA 20+34.29  
SEE SHEET 10(13)

**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
[Symbol]	Denotes Traffic Flow
[Symbol]	Denotes Group II Channelizing Devices
[Symbol]	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(14) AREA 3
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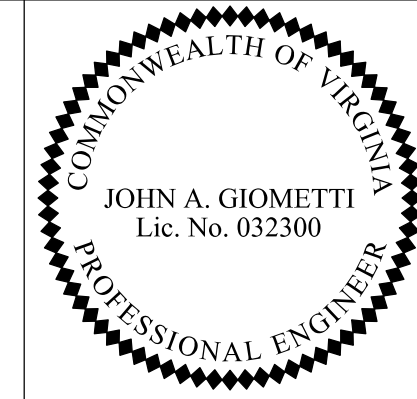
APPROVED FOR CONSTRUCTION

NOVA DISTRICT



PROJECT MANAGER VDOT - Rupal Shah, PE, (703) 259-2362  
 SURVEYED BY, DATE RDA - Nicholas Kougoullis, LS, (703) 334-0837, 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



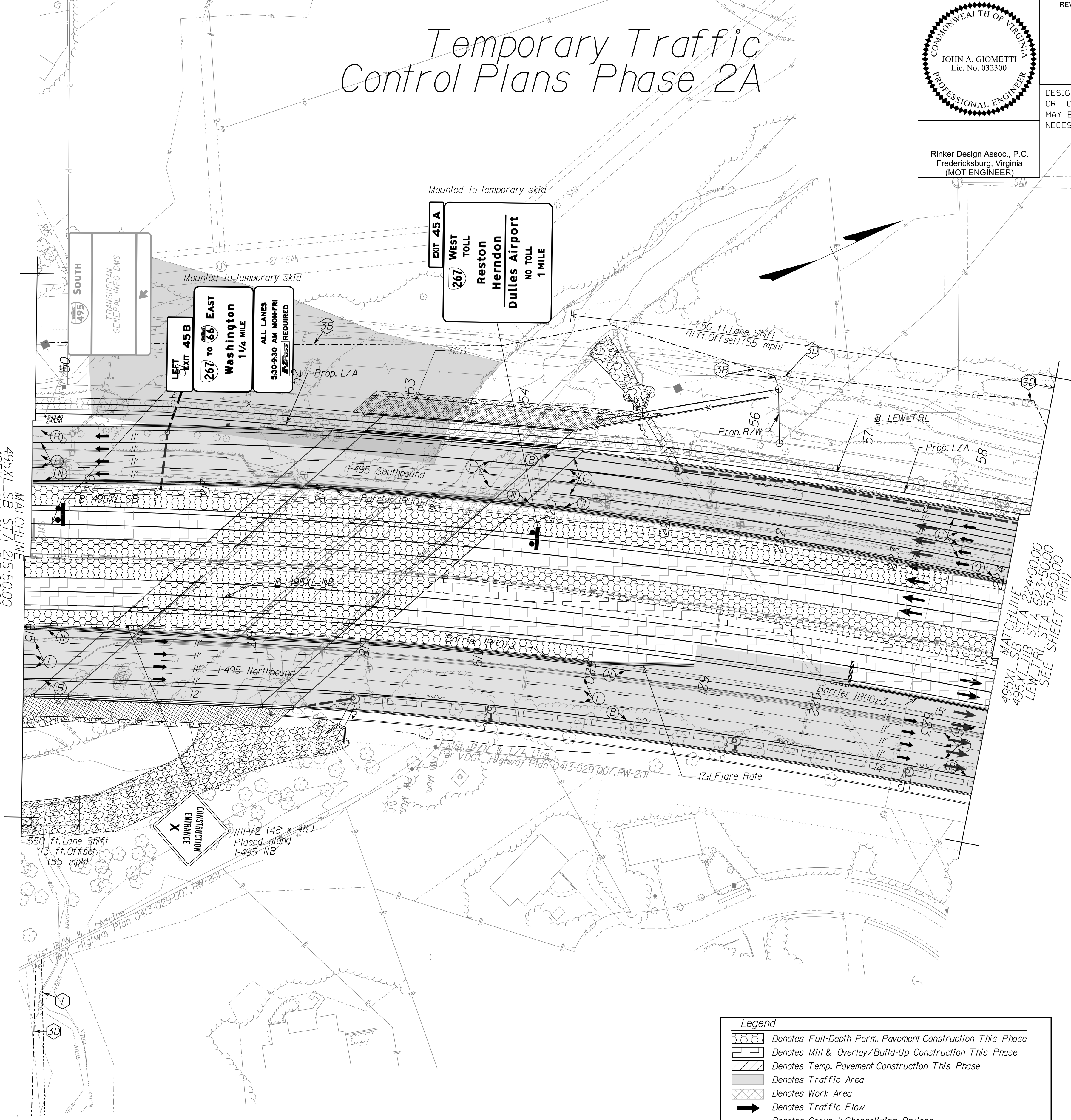
Rinker Design Assoc., P.C.  
 Fredericksburg, Virginia  
 (MOT ENGINEER)

REVISED	STATE	ROUTE	STATE	VDOT PROJECT NO.	SHEET NO.
	VA	495		0495-029-419 C501 RW201	1R(10) AREA 3

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

495XL\_SB STA 215+50.00  
 495XL\_NB STA 615+00.00  
 LEW-TRL STA 49+75.00  
 BEGIN AREA 3  
 BEGIN AREA 3  
 SEE AREA 2 PHASE 2A  
 SEE FOR CONTINUITY

495XL\_SB STA 224+00.00  
 495XL\_NB STA 625+00.00  
 LEW-TRL STA 58+50.00  
 SEE SHEET 1R(11)



TEMPORARY BARRIER TABLE (LENGTHS ARE APPROXIMATE)

NAME	BL	BEGIN		END	
		STATION	OFFSET	STATION	OFFSET
1R(10)-1	495XL_SB	SEE AREA 2		SEE SHEET 1R(11)	
1R(10)-2	495XL_NB	SEE AREA 2		620+90	20.22' RT
1R(10)-3	495XL_NB	622+26	16.00' RT	SEE SHEET 1R(11)	

**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(10) AREA 3
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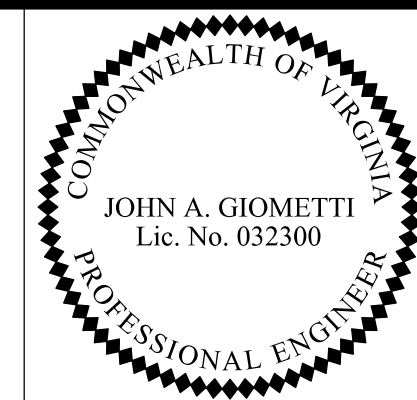
APPROVED FOR CONSTRUCTION

NOVA DISTRICT

10/16/2022



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 Accurmark - Michael Taylor, LS, (703) 635-3060, 12/2021



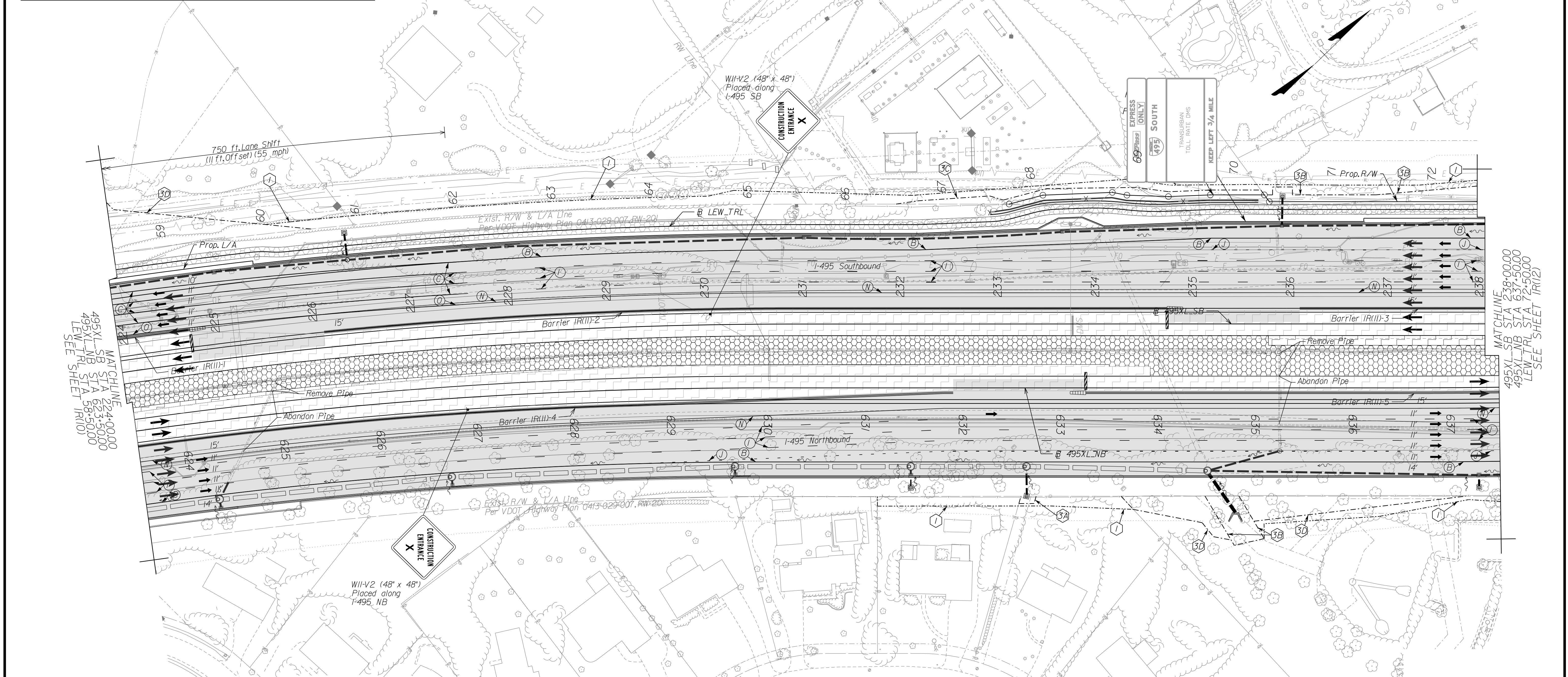
Rinker Design Assoc., P.C.  
 Fredericksburg, Virginia  
 (MOT ENGINEER)

REVISED	STATE	ROUTE	STATE	VDOT PROJECT NO.	SHEET NO.
	VA.	495		0495-029-419 C501 RW201	1R(11) AREA 3

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
1R(11)-1	495XL_SB	SEE SHEET 1R(10)		224+74	34.04' LT
1R(11)-2	495XL_SB	226+10	16.00' LT	234+74	16.00' LT
1R(11)-3	495XL_SB	236+10	16.00' LT	SEE SHEET 1R(12)	
1R(11)-4	495XL_NB	SEE SHEET 1R(10)		631+90	5.00' RT
1R(11)-5	495XL_NB	633+26	5.00' RT	SEE SHEET 1R(12)	

# Temporary Traffic Control Plans Phase 2A



(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
(M) White, Yield Marking	(X) Existing Pavement Marking

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

[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. 1R(11) AREA 3
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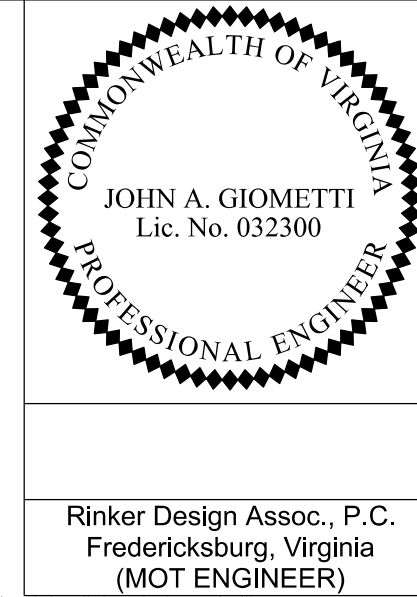
APPROVED FOR CONSTRUCTION

NOVA DISTRICT

10/16/2022



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

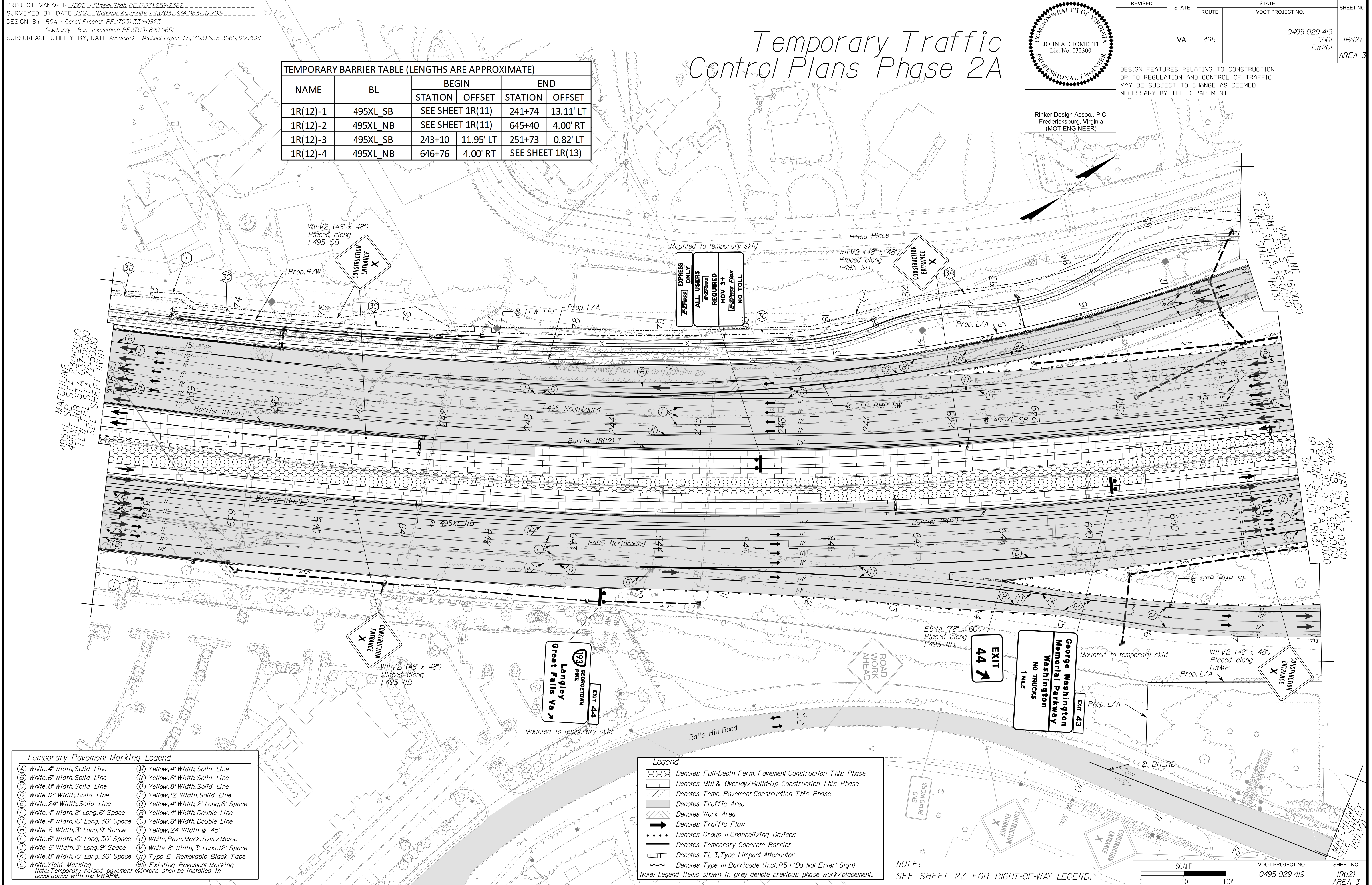


REVISED	STATE	ROUTE	STATE	VDOT PROJECT NO.	SHEET NO.
	VA.	495		0495-029-419 C501 RW201	IR(12) AREA 3

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(12)-1	495XL_SB	SEE SHEET 1R(11)	241+74	13.11' LT	
1R(12)-2	495XL_NB	SEE SHEET 1R(11)	645+40	4.00' RT	
1R(12)-3	495XL_SB	243+10	11.95' LT	251+73	0.82' LT
1R(12)-4	495XL_NB	646+76	4.00' RT	SEE SHEET 1R(13)	



(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.

[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.

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

SCALE 0 50' 100'	VDOT PROJECT NO. 0495-029-419	SHEET NO. IR(12) AREA 3
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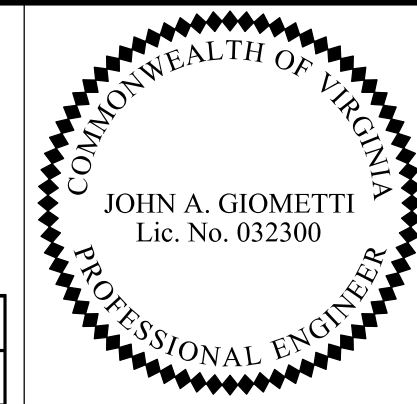
APPROVED FOR CONSTRUCTION



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  
 Dewberry - Ron Jakomilich, PE, (703) 849-0651  
 SUBSURFACE UTILITY BY, DATE\_Accurmark - Michael Taylor, LS, (703) 635-3060, 12/2021

MATCHLINE  
 GTP STA 20+50.00  
 SEE SHEET 1R(13N)

# Temporary Traffic Control Plans Phase 2A

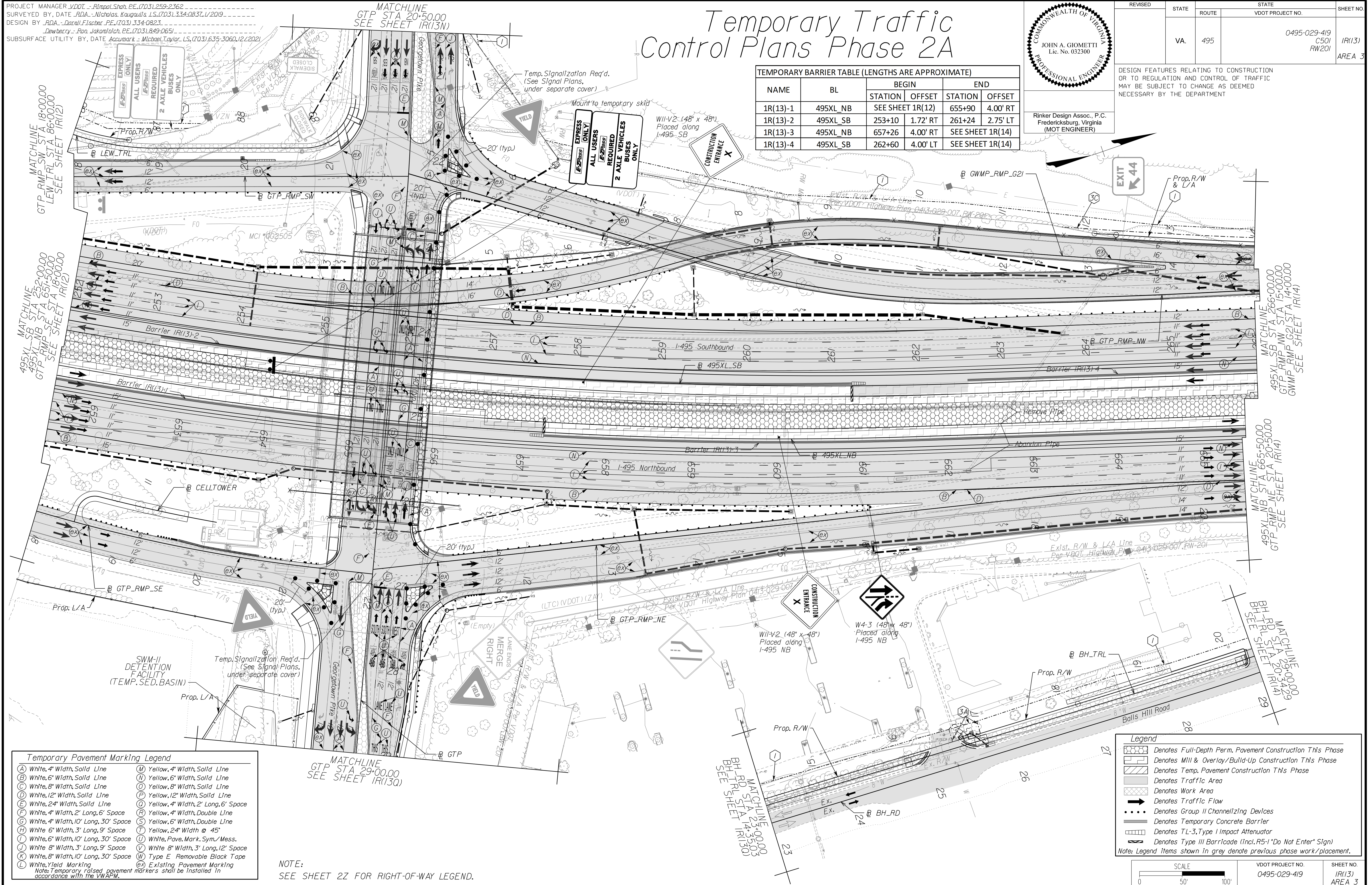


Rinker Design Assoc., P.C.  
 Fredericksburg, Virginia  
 (MOT ENGINEER)

REVISED	STATE	ROUTE	STATE	VDOT PROJECT NO.	SHEET NO.
	VA.	495		0495-029-419 C501 RW201	1R(13) AREA 3

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
1R(13)-1	495XL_NB	SEE SHEET 1R(12)		655+90	4.00' RT
1R(13)-2	495XL_SB	253+10	1.72' RT	261+24	2.75' LT
1R(13)-3	495XL_NB	657+26	4.00' RT	SEE SHEET 1R(14)	
1R(13)-4	495XL_SB	262+60	4.00' LT	SEE SHEET 1R(14)	



(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.

MATCHLINE  
 GTP STA 29+00.00  
 SEE SHEET 1R(13O)

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

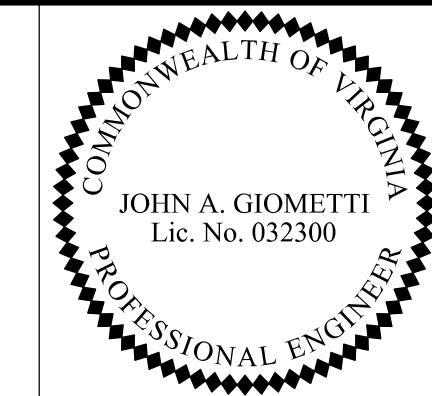
SCALE 0 50' 100'	VDOT PROJECT NO. 0495-029-419	SHEET NO. 1R(13) AREA 3
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APPROVED FOR CONSTRUCTION



PROJECT MANAGER VDOT - Rupal Shah, P.E. (703) 259-2362  
 SURVEYED BY, DATE RDA - Nicholas Kougoullis, L.S. (703) 334-0837, 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

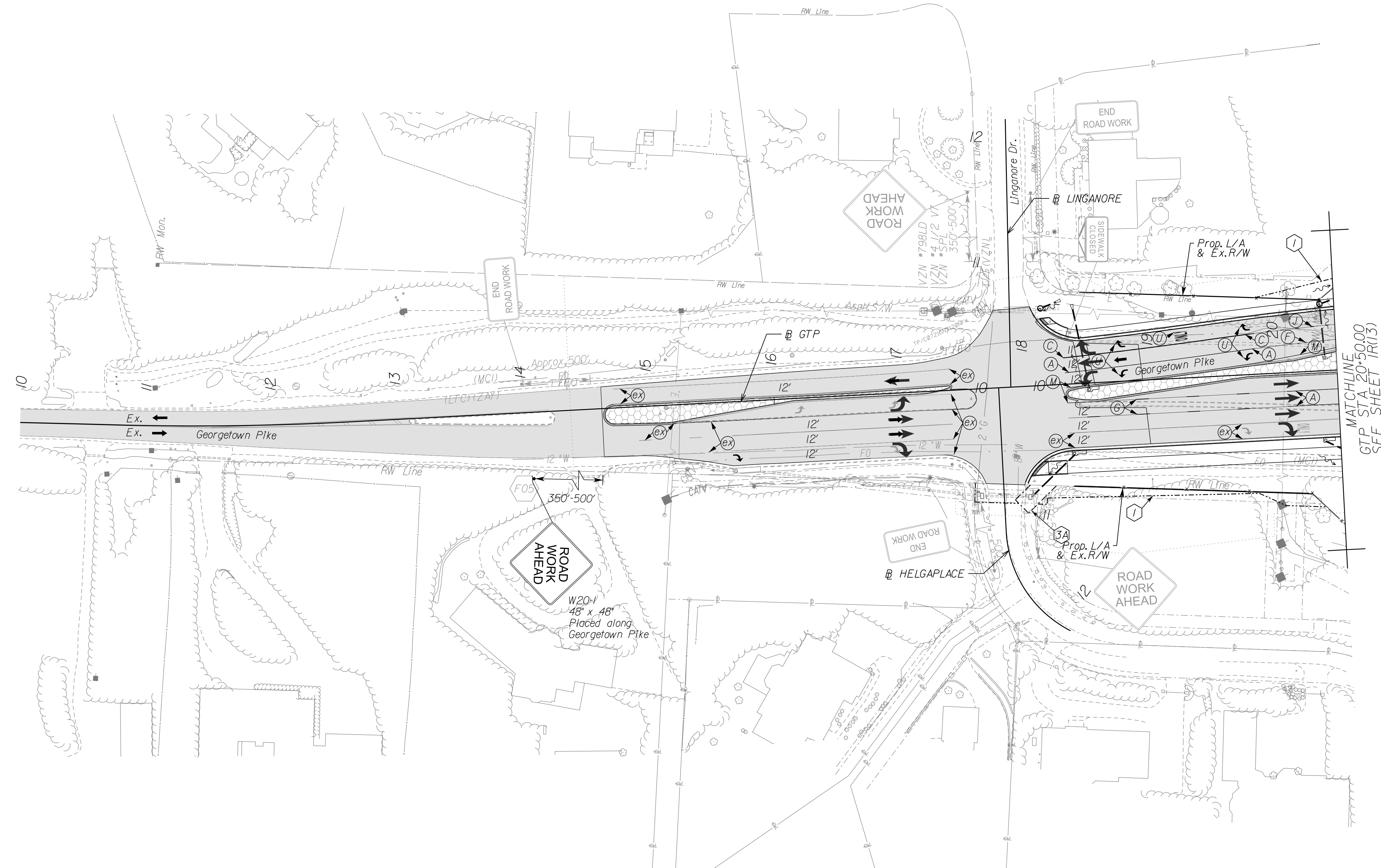
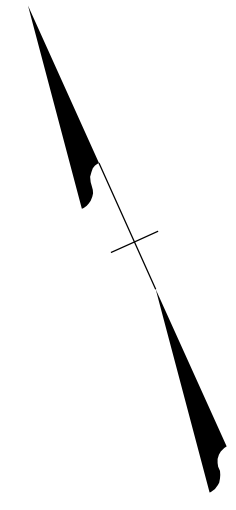
# Temporary Traffic Control Plans Phase 2A



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(13N) AREA 3

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



MATCHLINE  
GTP STA 20+50.00  
SEE SHEET 1R(13)

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 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(13N) AREA 3
---------------------	----------------------------------	--------------------------------

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 Accumark - Michael Taylor, L.S. (703) 635-3060, 12/2021

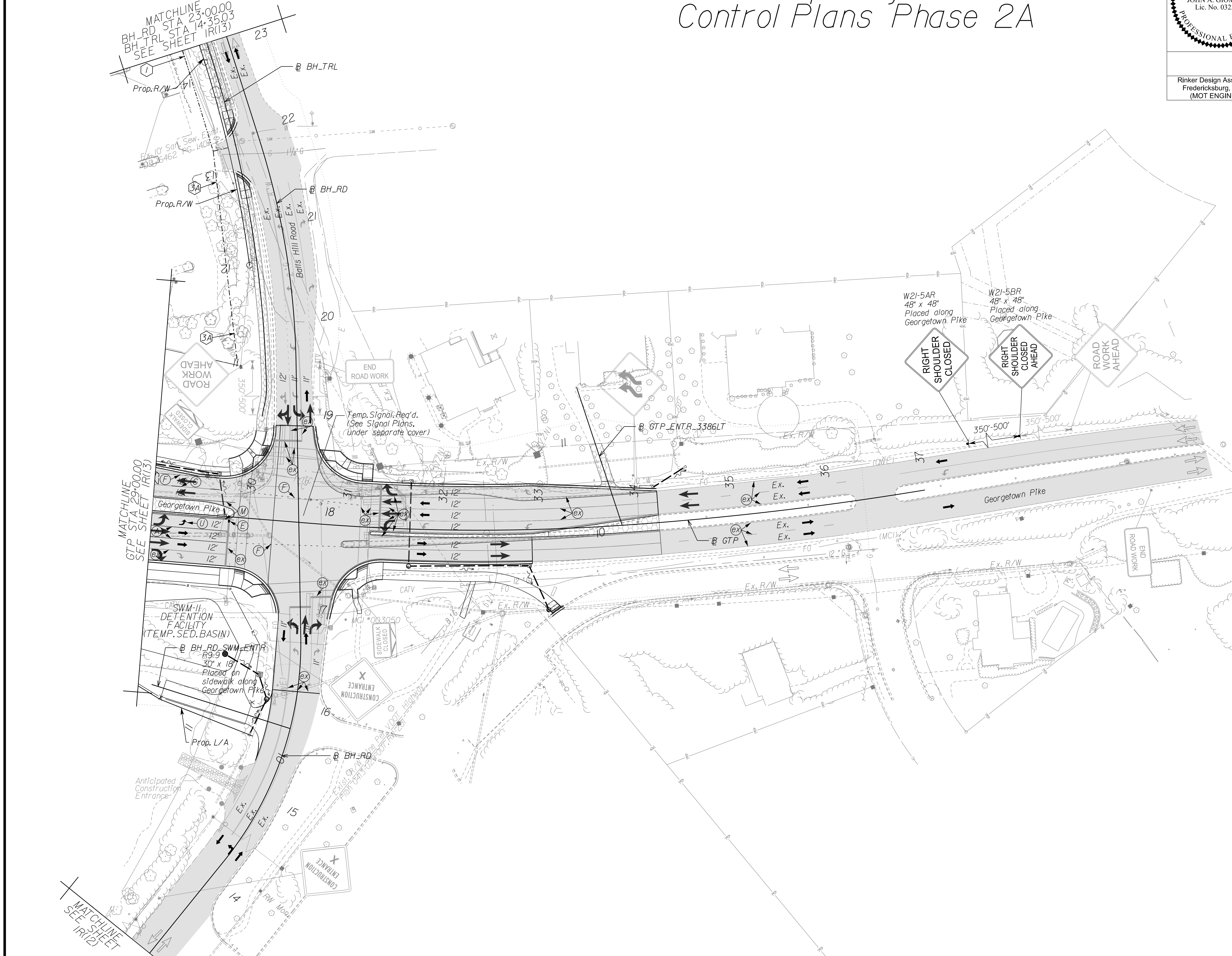
# Temporary Traffic Control Plans Phase 2A

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	1R(130) AREA 3

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 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.

**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
(I) White, Yield Marking	(X) Existing Pavement Marking

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

SCALE 0 50' 100'

VDOT PROJECT NO. 0495-029-419 SHEET NO. 1R(130) AREA 3

APPROVED FOR CONSTRUCTION

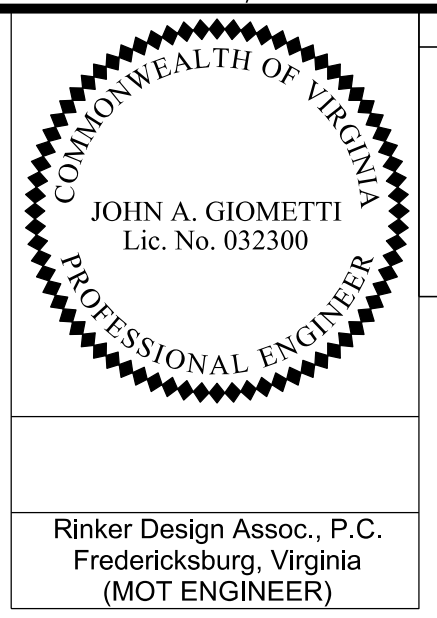
NOVA DISTRICT



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 2A

TEMPORARY BARRIER TABLE (LENGTHS ARE APPROXIMATE)					
NAME	BL	BEGIN		END	
		STATION	OFFSET	STATION	OFFSET
1R(14)-1	495XL_SB	SEE SHEET 1R(13)		271+74	3.76' LT
1R(14)-2	495XL_NB	SEE SHEET 1R(13)		667+40	4.81' RT
1R(14)-3	495XL_NB	668+76	5.00' RT	SEE AREA 4	
1R(14)-4	495XL_SB	273+10	3.80' LT	SEE AREA 4	



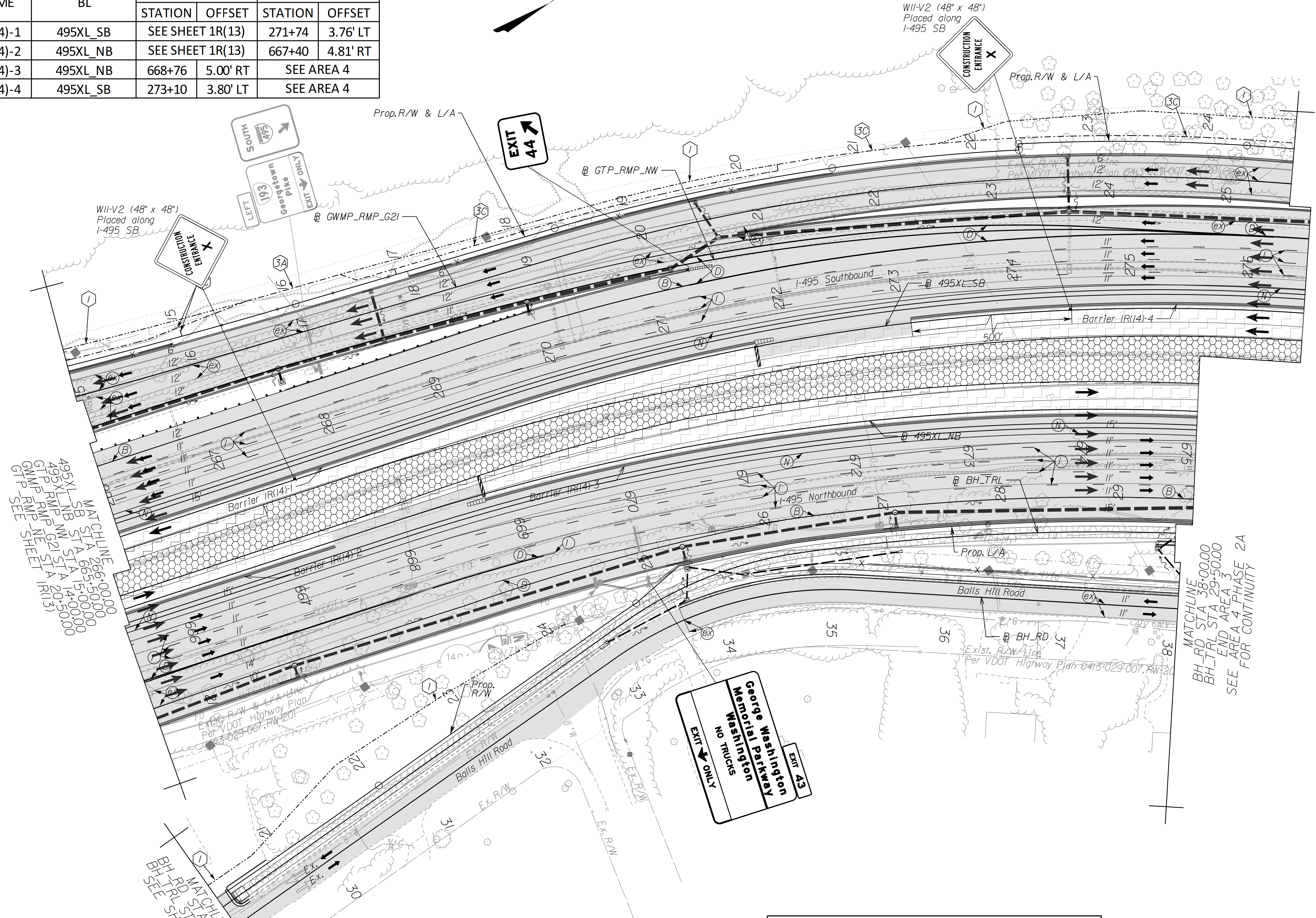
REVISED	STATE	ROUTE	STATE	VDOT PROJECT NO.	SHEET NO.
	VA	495		0495-029-419 C501 RW201	IR(14) AREA 3

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)

MATCHLINE  
 495XL\_SB STA 266+00.00  
 495XL\_NB STA 154+00.00  
 GTP\_RMP\_NW STA 144+00.00  
 GTP\_RMP\_NE STA 203+10.00  
 END AREA 3  
 SEE AREA 4 PHASE 2A  
 FOR CONTINUITY

MATCHLINE  
 BH\_RD STA 38+00.00  
 BH\_TRL STA 29+50.00  
 END AREA 3  
 SEE AREA 4 PHASE 2A  
 FOR CONTINUITY



**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 2Z FOR RIGHT-OF-WAY LEGEND.

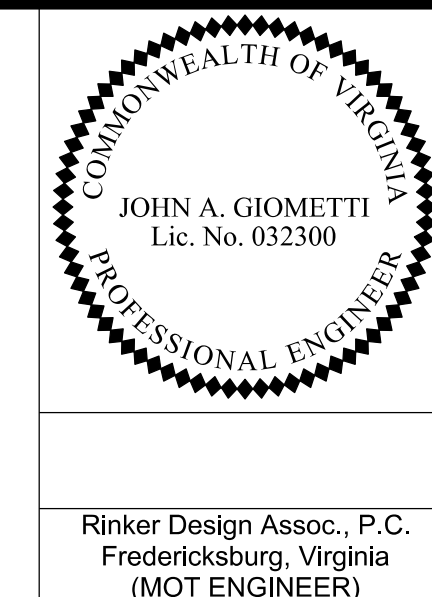
SCALE 0 50' 100'	VDOT PROJECT NO. 0495-029-419	SHEET NO. IR(14) AREA 3
---------------------	----------------------------------	-------------------------------

APPROVED FOR CONSTRUCTION

NOVA DISTRICT



PROJECT MANAGER VDOT - Rupal Shah, PE, (703) 259-2362  
SURVEYED BY, DATE RDA - Nicholas Kougaull, 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	15 AREA 3

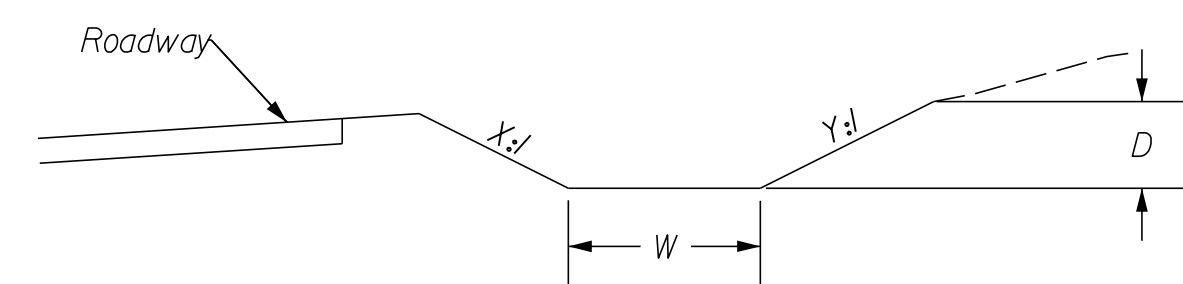
DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT

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.	IM(13) DITCH 1	0+66	7+65	0.59	2.37	3.9%	0	0.8	2.0	2.0	3.3	4.0	EC-2 Type I Req'd., 9 in.
SHEET NO.	IM(13) DITCH 2	8+18	7+65	0.08	0.32	1.0%	0	0.6	2.0	2.0	1.2	4.0	EC-2 Type I Req'd., 6 in.
SHEET NO.	IM(13) DITCH 3	1+02	6+62	0.92	3.67	4.4%	0	0.8	2.0	2.0	3.9	4.0	EC-2 Type I Req'd., 9 in.
SHEET NO.	IM(13) DITCH 4	8+53	6+62	0.16	0.63	4.2%	0	0.6	2.0	2.0	2.4	4.0	EC-2 Type I Req'd., 6 in.
SHEET NO.	IM(12) DITCH 5	15+28	16+36	0.37	1.49	1.4%	0	0.8	2.0	2.0	2.0	4.0	EC-2 Type I Req'd., 9 in.
SHEET NO.	IL(11) DITCH 7	233+47	231+04	0.57	2.28	2.6%	0	0.5	2.0	2.0	6.2	N/A	Paved Ditch Req'd., 6 in.

TEMPORARY DITCH TYPICAL SECTION



NOVA DISTRICT

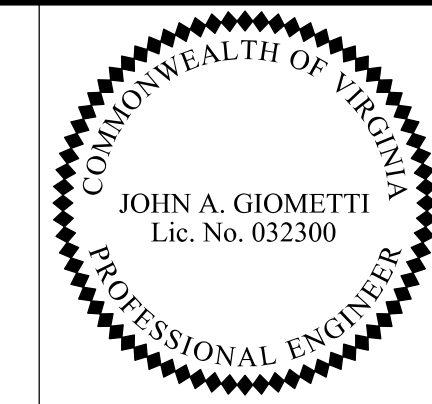
NOT TO SCALE	VDOT PROJECT NO. 0495-029-419	SHEET NO. 15 AREA 3
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APPROVED FOR CONSTRUCTION



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  
Dewberry - Ron Jakomlitch, PE, (703) 849-0651  
SUBSURFACE UTILITY BY, DATE\_Accurmark - Michael Taylor, LS, (703) 635-3060, 12/2021

# Georgetown Pike Detour Exhibit Phase 1C

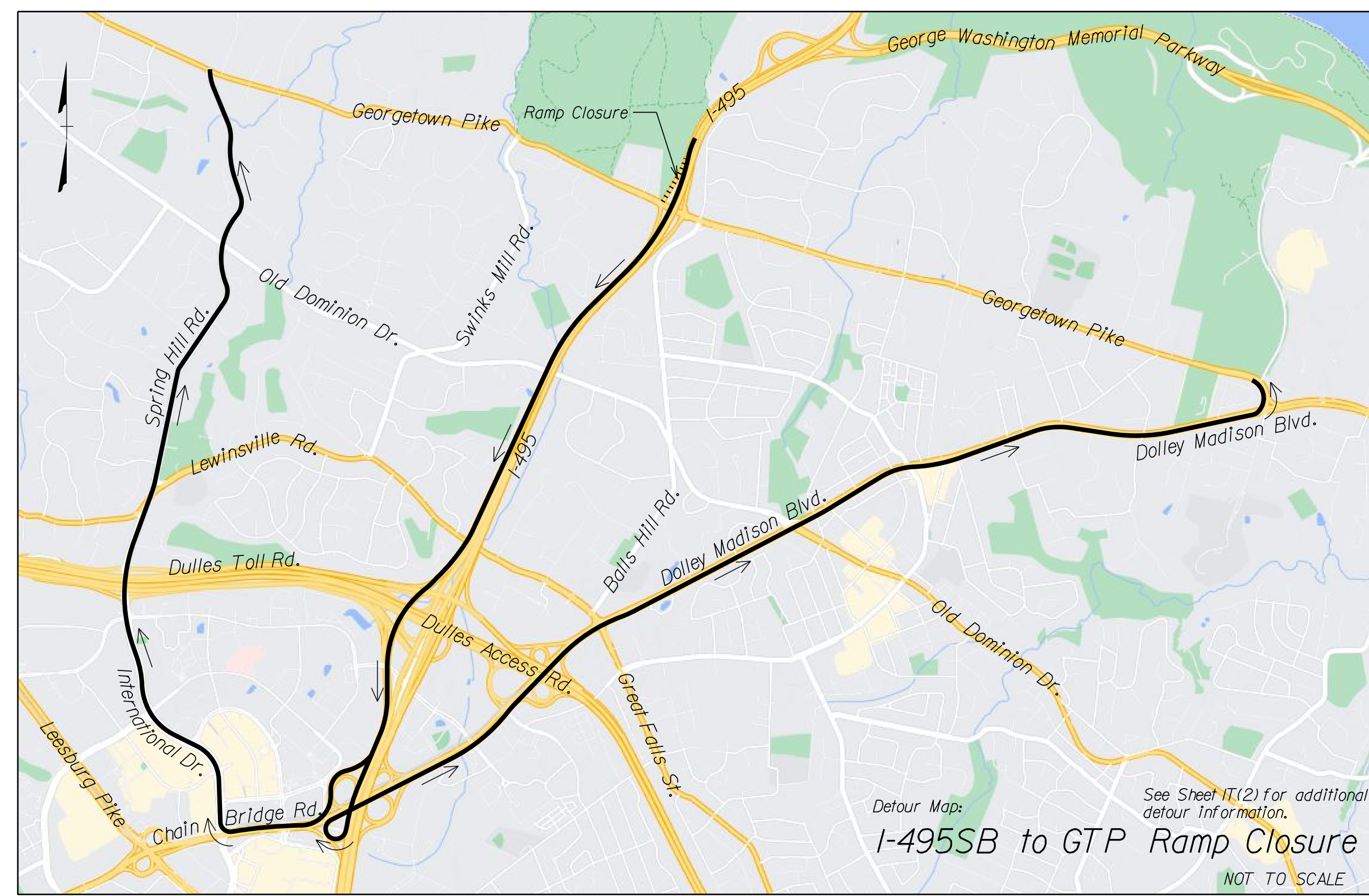
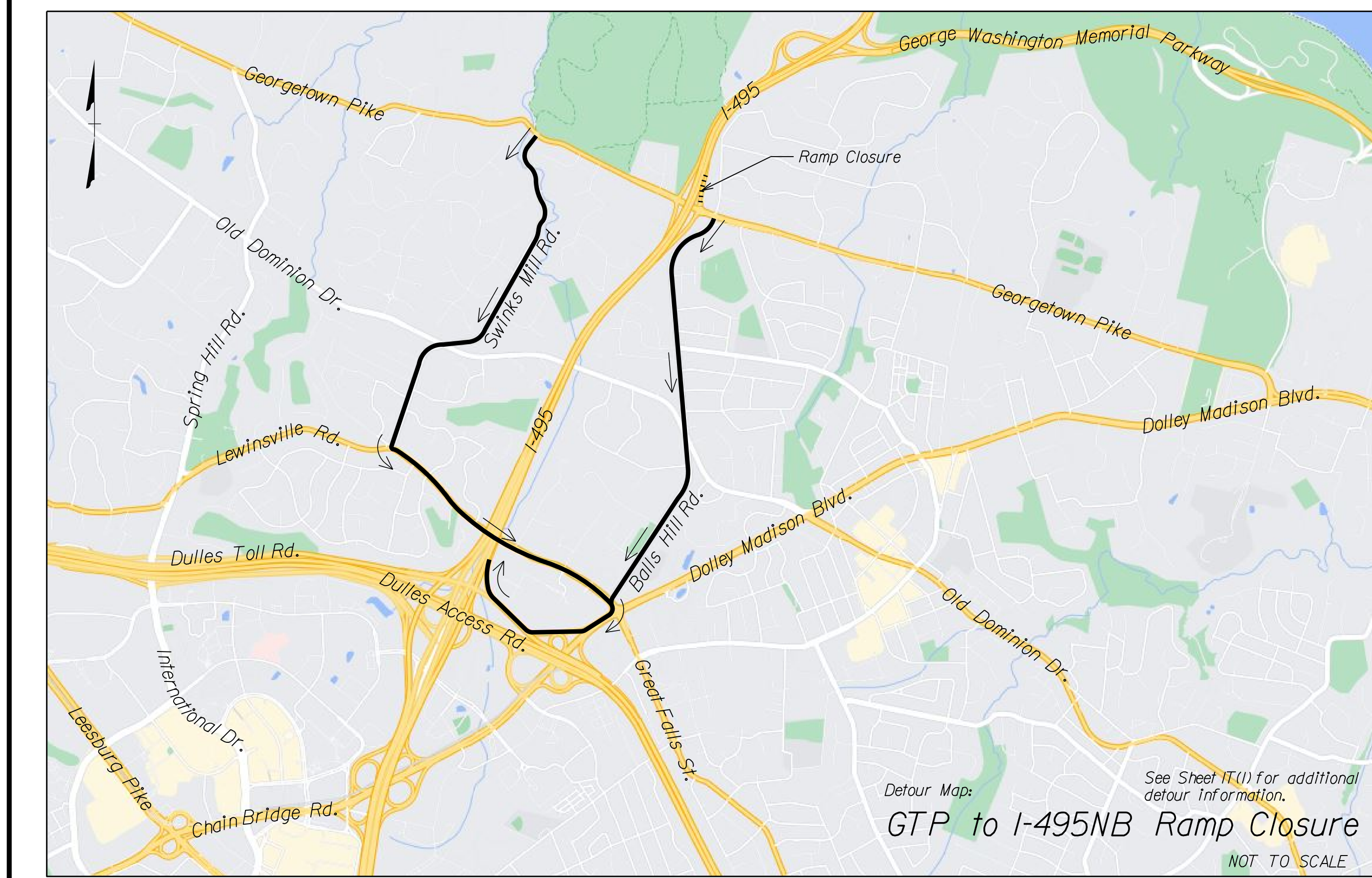
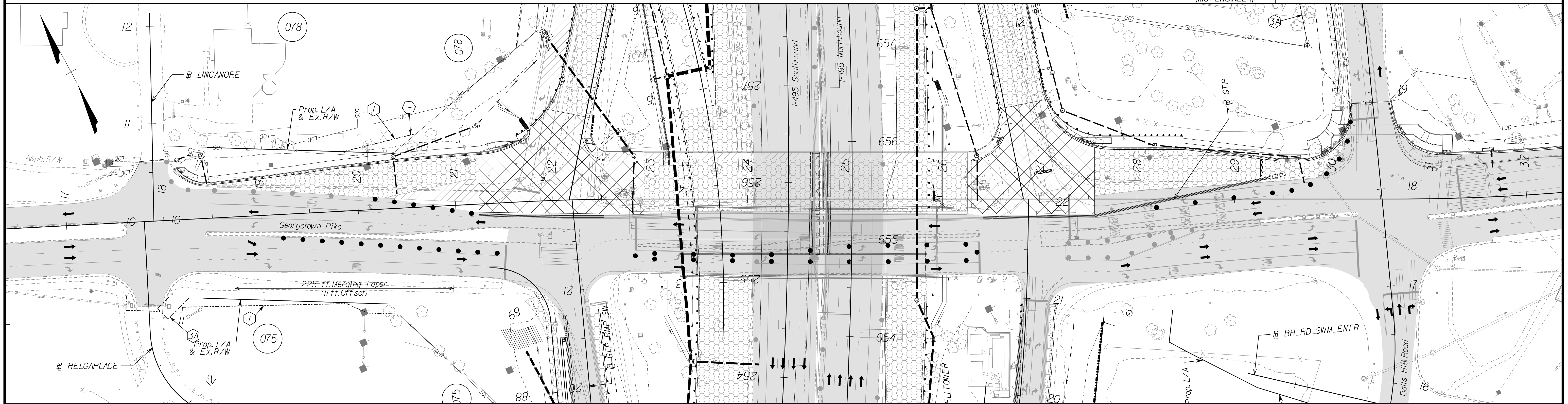


Rinker Design Assoc., P.C.  
Fredericksburg, Virginia  
(MOT ENGINEER)

REVISED	STATE	ROUTE	STATE	VDOT PROJECT NO.	SHEET NO.
	VA.	495		0495-029-419 C501 RW201	IT AREA 3

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

**Detour Notes:**  
1. See TTC General Notes on sheet IJ, and section I.8 & I.9 of the Technical Requirements, Part 2, for information regarding short-term closure/detour coordination/permissions.  
2. Contractor to follow the Virginia Work Area Protection Manual, Latest Edition, for this detour (TTC-46.2 & TTC-48.2).  
3. Portable Changeable Message Signs (PCMS) should be located 2 weeks prior to implementing the agreed upon detour start date, and continuously function for the full duration of the detour/closure.



SCALE  
0 50' 100'

**MOT Legend**

- Denotes Construction This Phase
- Denotes Full-Depth Perm. Pavement
- Denotes Mill & Overlay/Build-Up
- Denotes Temp. Pavement
- Denotes Traffic 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. RII-VI "Ramp Closed" Sign)

**Detour Map Legend**

- Denotes Closed Route
- Denotes Detour Route
- Denotes Traffic Flow

VDOT PROJECT NO. 0495-029-419	SHEET NO. IT AREA 3
----------------------------------	---------------------------

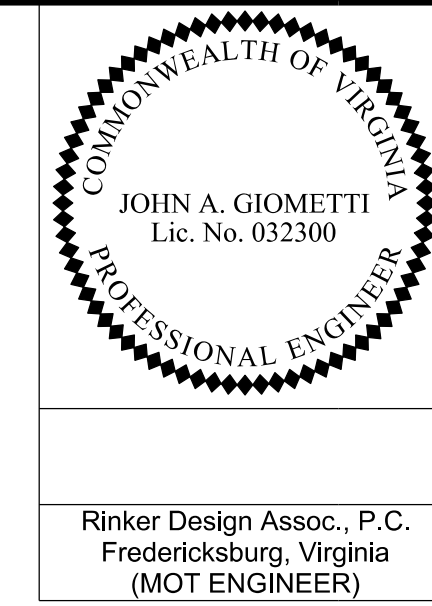
APPROVED FOR CONSTRUCTION

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

# Detour Plan - Phase 1C Georgetown Pike Ramp to I-495 NB



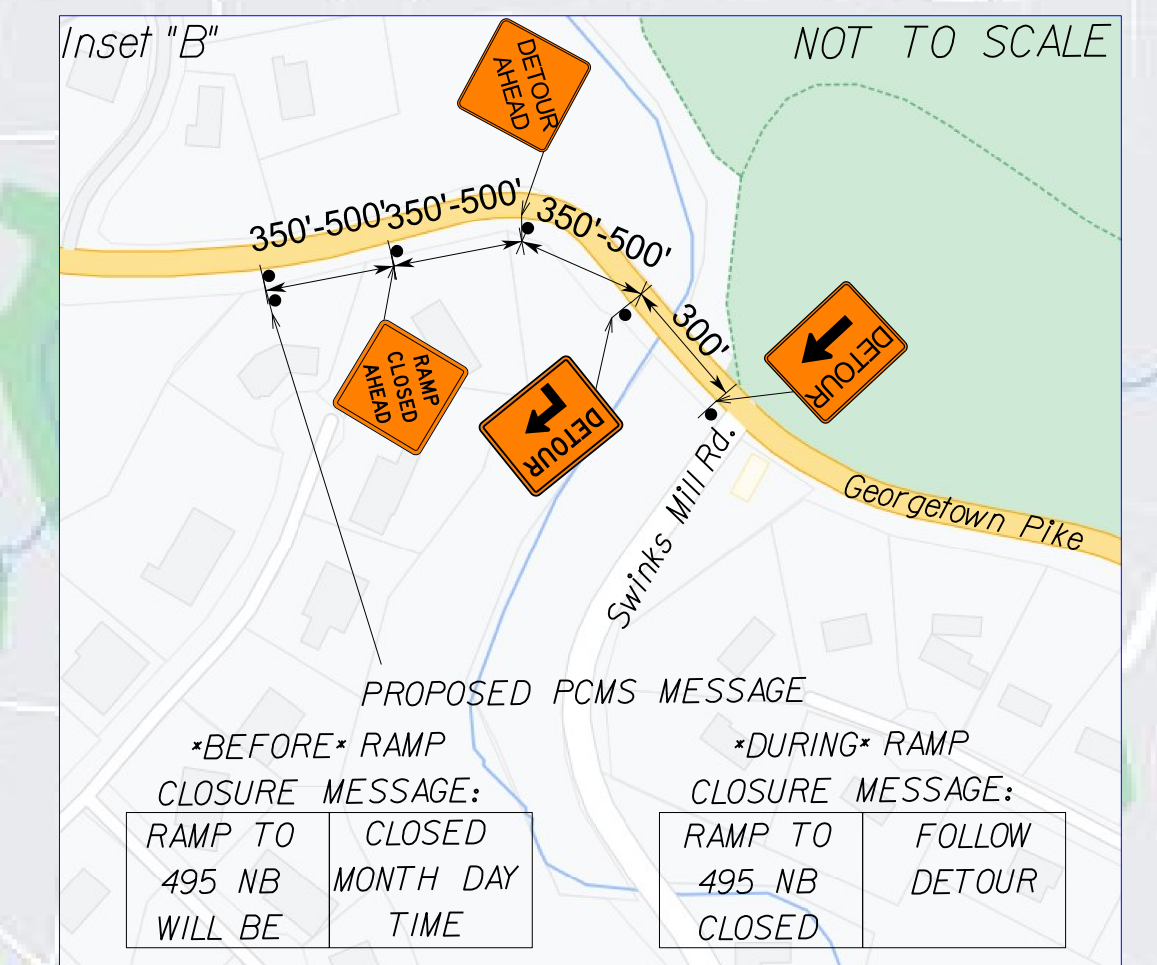
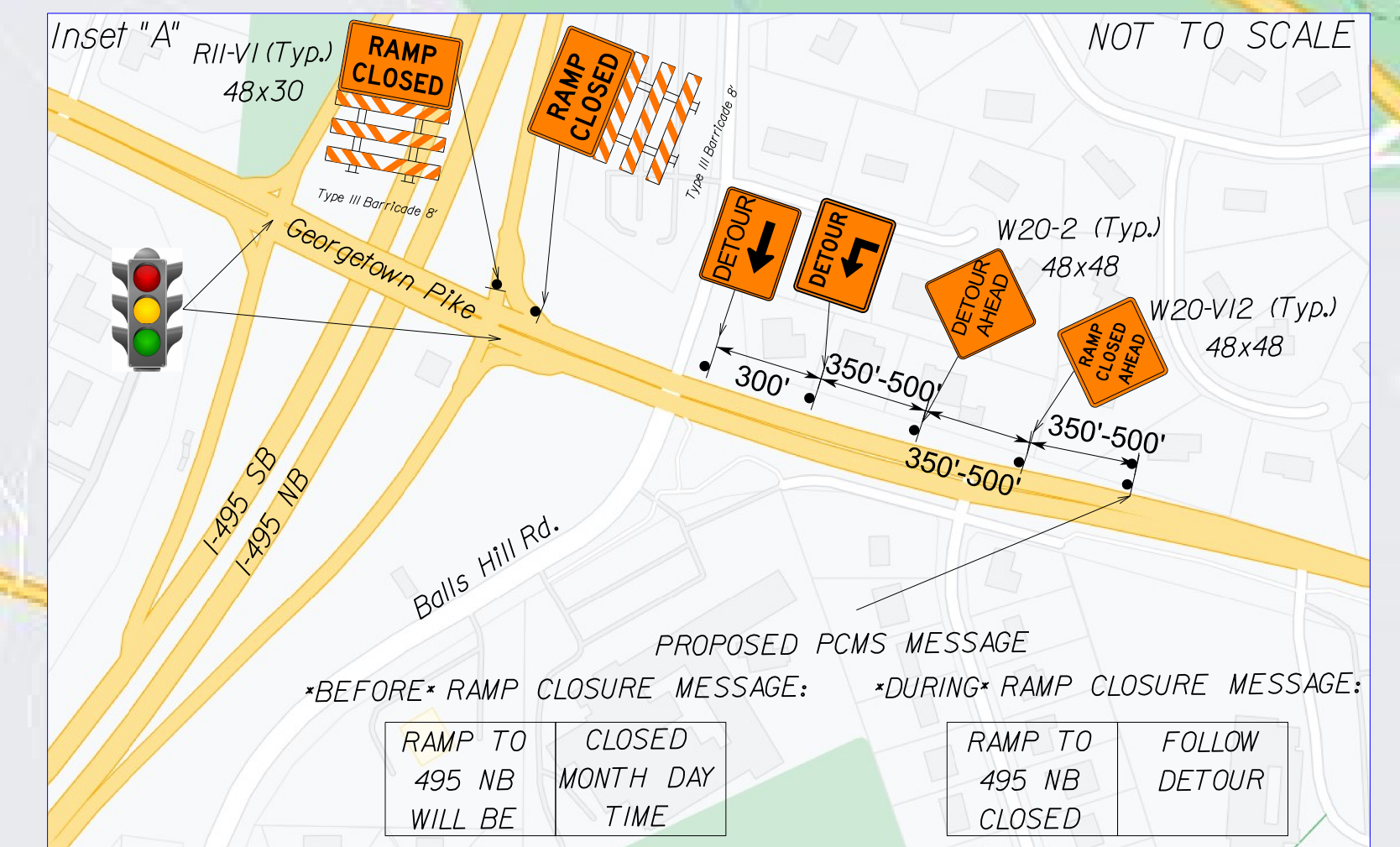
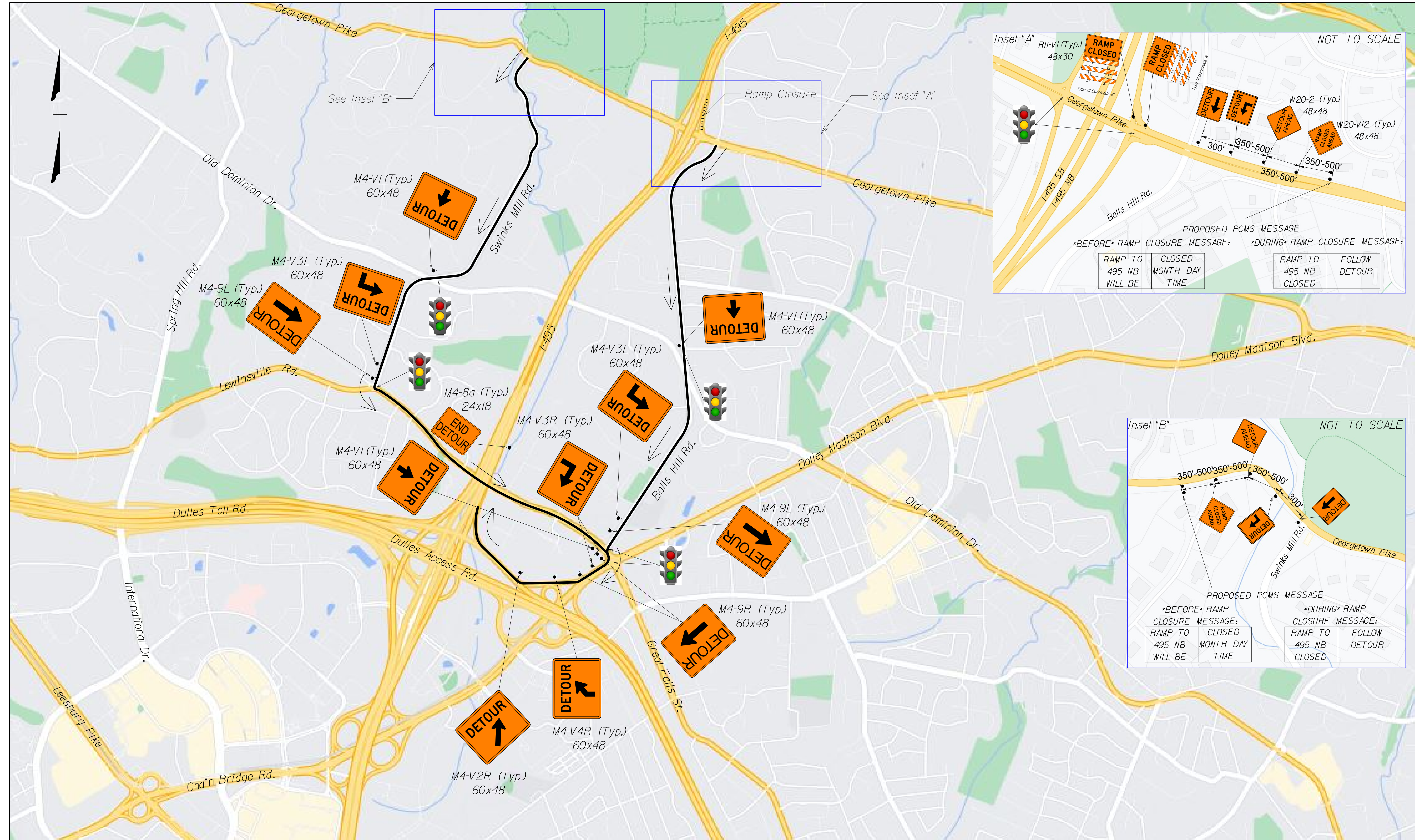
REVISED	STATE	ROUTE	STATE	VDOT PROJECT NO.	SHEET NO.
	VA.	495		0495-029-419 C501 RW201	17(1) AREA 3

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)

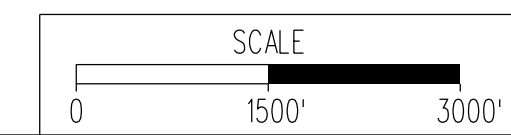
**Detour Map Legend**

- Denotes Closed Route
- Denotes Detour Route
- Denotes Traffic Flow
- Denotes Signalized Intersection



NOVA DISTRICT

11/7/2022



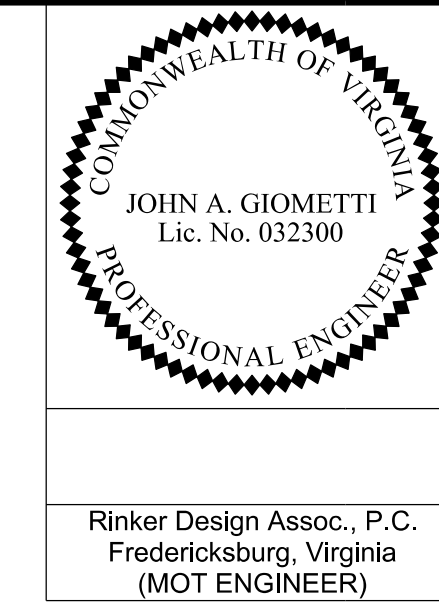
VDOT PROJECT NO. 0495-029-419	SHEET NO. 17(1) AREA 3
----------------------------------	------------------------------

APPROVED FOR CONSTRUCTION



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

# Detour Plan - Phase 1C I-495 SB to Georgetown Pike



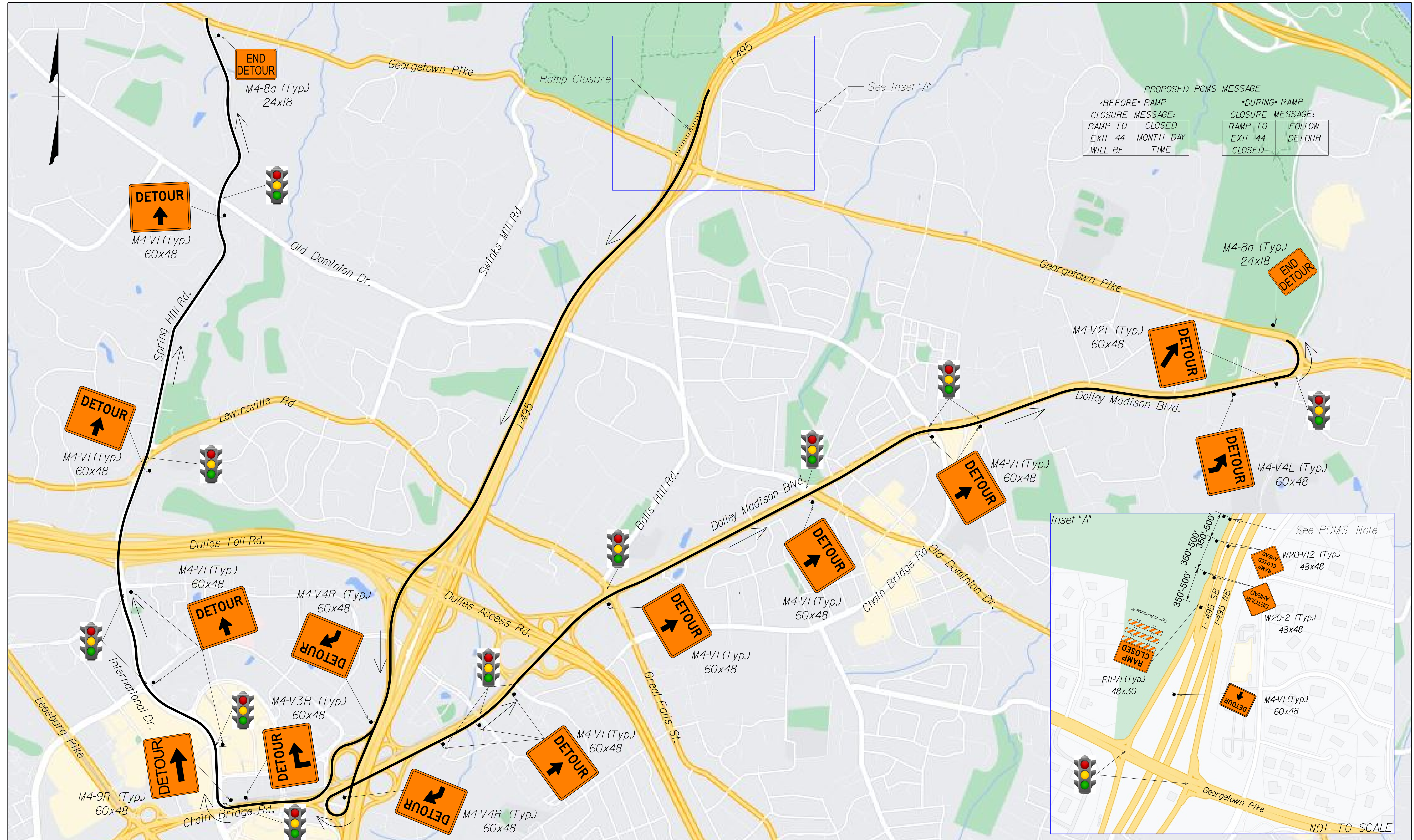
REVISED	STATE	ROUTE	STATE	VDOT PROJECT NO.	SHEET NO.
	VA.	495		0495-029-419 C501 RW201	IT(2) AREA 3

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)

**Detour Map Legend**

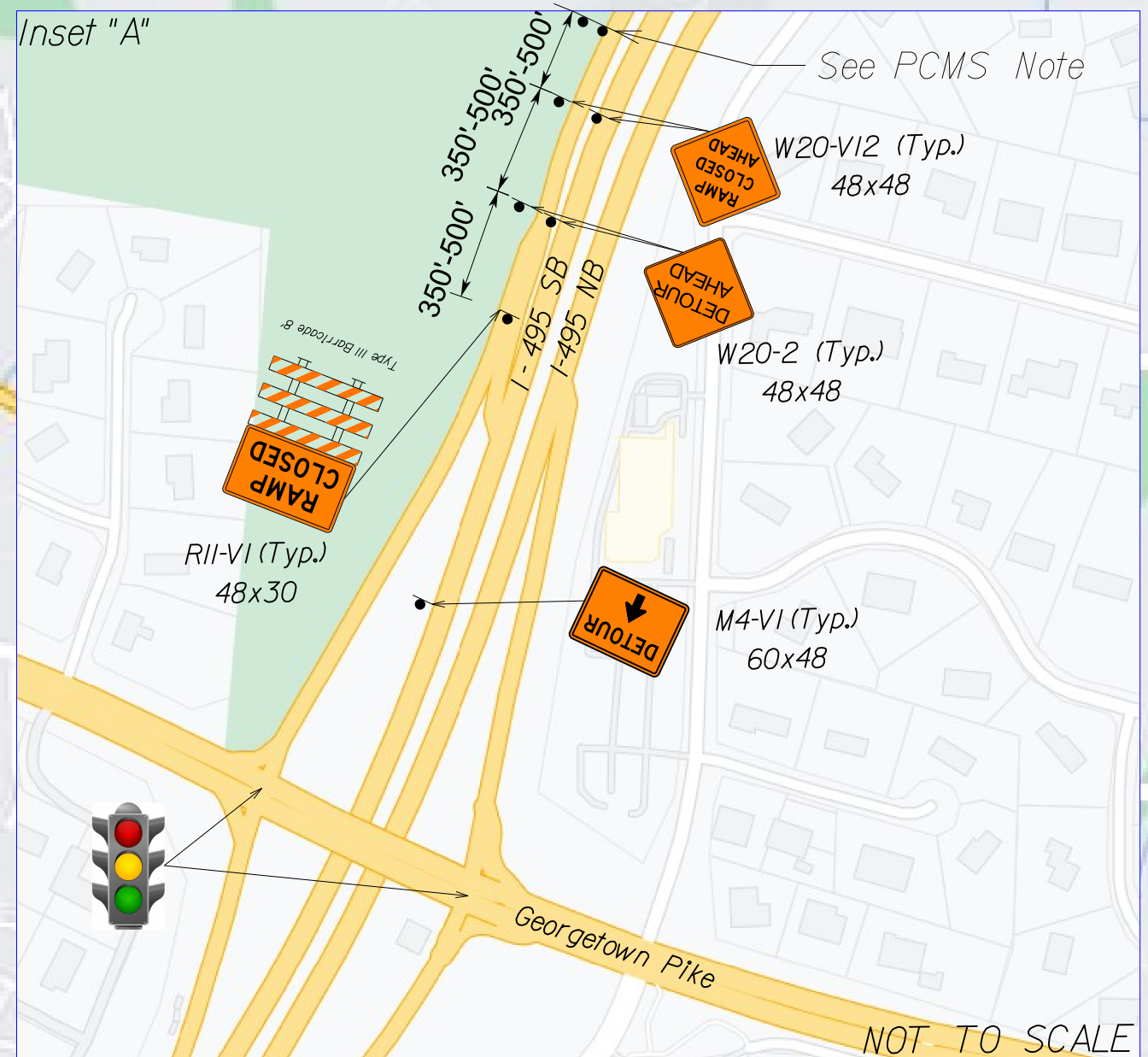
- ..... Denotes Closed Route
- Denotes Detour Route
- Denotes Traffic Flow
- 🚦 Denotes Signalized Intersection



**PROPOSED PCMS MESSAGE**

**\*BEFORE\* RAMP CLOSURE MESSAGE:**  
RAMP TO CLOSED  
EXIT 44 MONTH DAY  
WILL BE TIME

**\*DURING\* RAMP CLOSURE MESSAGE:**  
RAMP TO FOLLOW  
EXIT 44 DETOUR  
CLOSED



SCALE 0 1500' 3000'

VDOT PROJECT NO. 0495-029-419

SHEET NO. IT(2) AREA 3

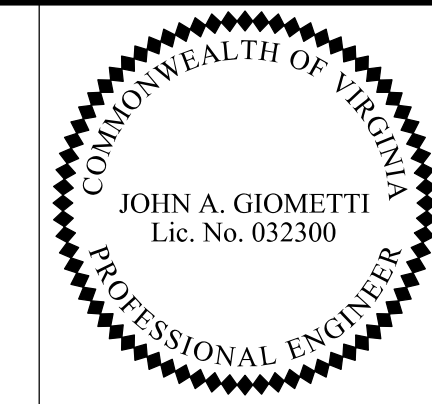
APPROVED FOR CONSTRUCTION

NOVA DISTRICT



PROJECT MANAGER\_VDOT - Rita Pal-Straub, 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

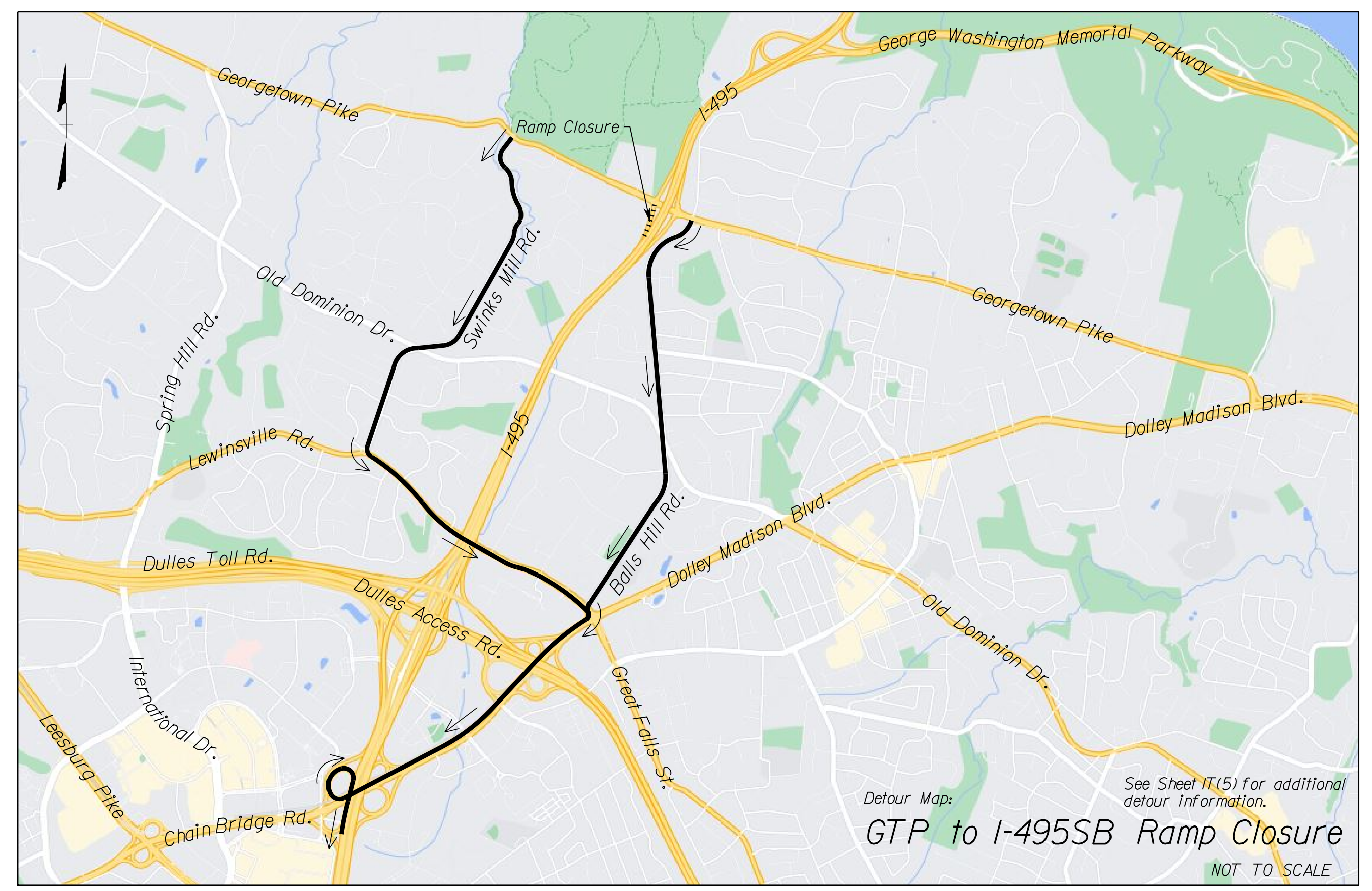
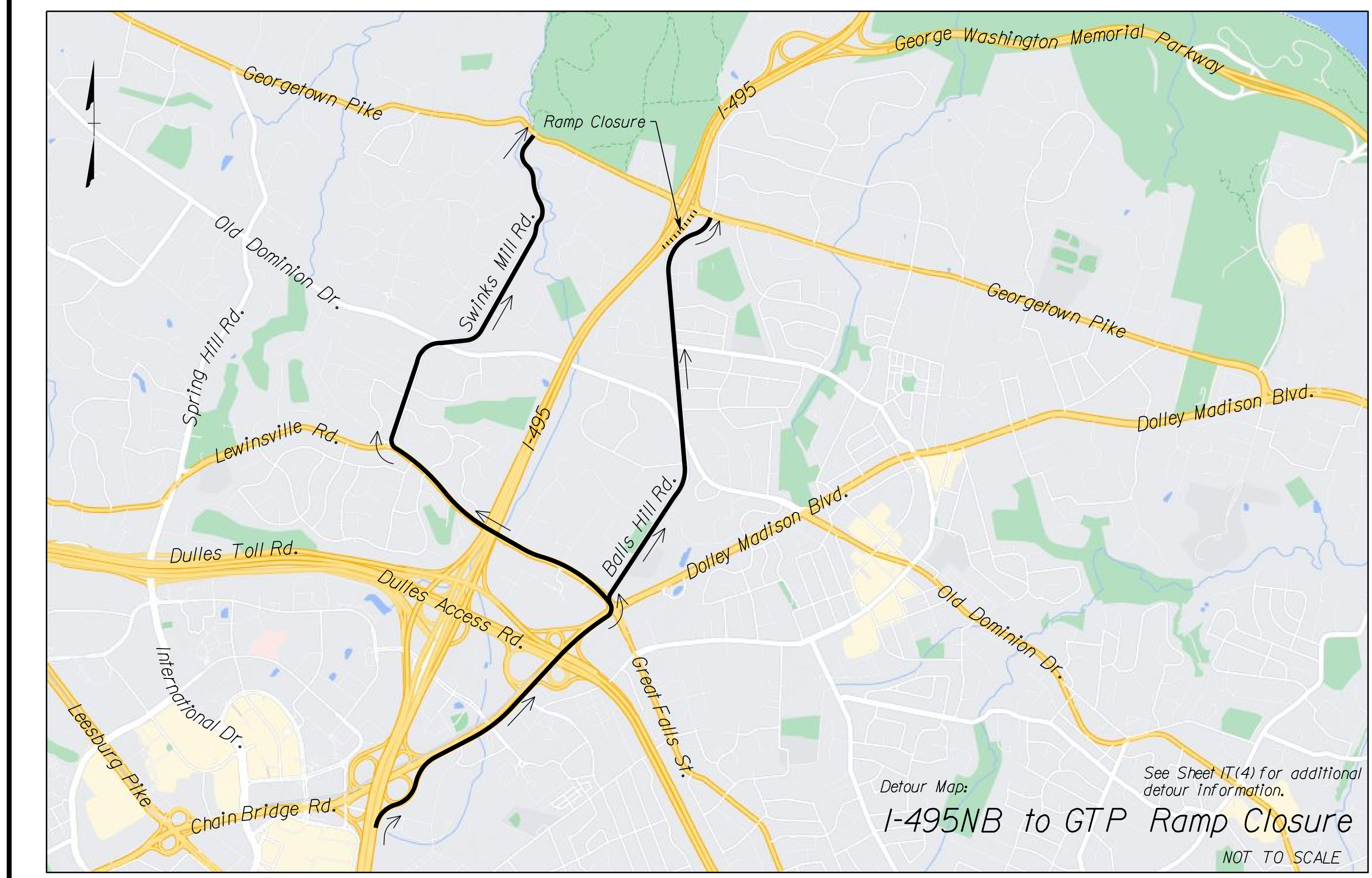
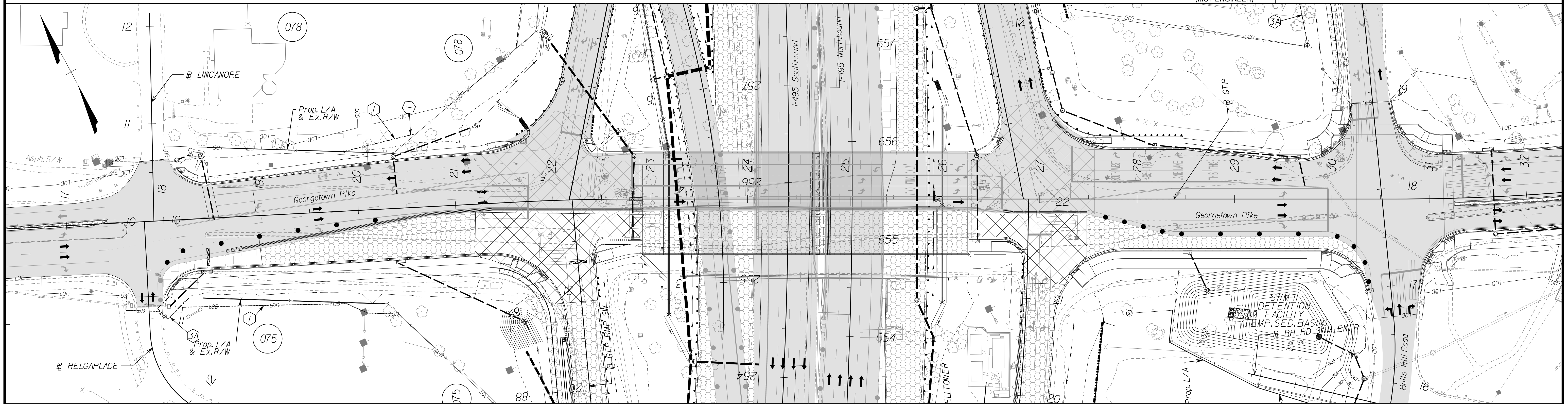
# Georgetown Pike Detour Exhibit Phase ID



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	IT(3) AREA 3

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 50' 100'

**MOT Legend**

- Denotes Construction This Phase
- Denotes Full-Depth Perm. Pavement
- Denotes Mill & Overlay/Build-Up
- Denotes Temp. Pavement
- Denotes Traffic 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. RII-VI "Ramp Closed" Sign)

**Detour Map Legend**

- Denotes Closed Route
- Denotes Detour Route
- Denotes Traffic Flow

VDOT PROJECT NO. 0495-029-419	SHEET NO. IT(3) AREA 3
----------------------------------	------------------------------

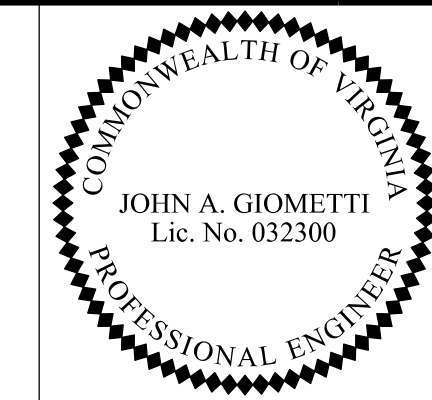
APPROVED FOR CONSTRUCTION

NOVA DISTRICT



PROJECT MANAGER: VDOT - Rupal Shah, P.E. (703) 259-2362  
SURVEYED BY, DATE: RDA - Nicholas Kougoullis, LS (703) 334-0837, 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

# Detour Plan - Phase ID I-495 NB to Georgetown Pike



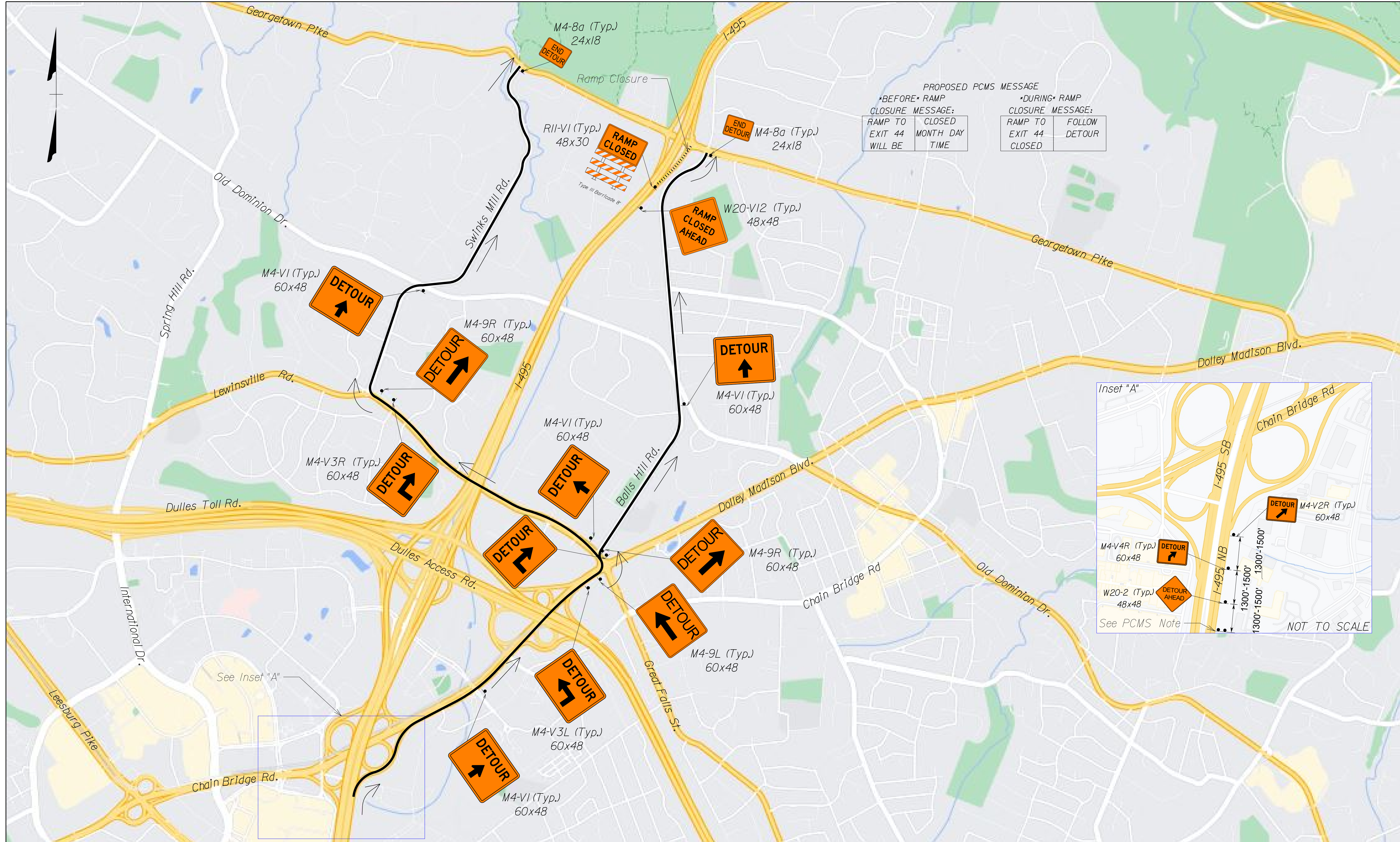
REVISED	STATE	ROUTE	STATE	VDOT PROJECT NO.	SHEET NO.
	VA.	495		0495-029-419 C501 RW201	IT(4) AREA 3

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)

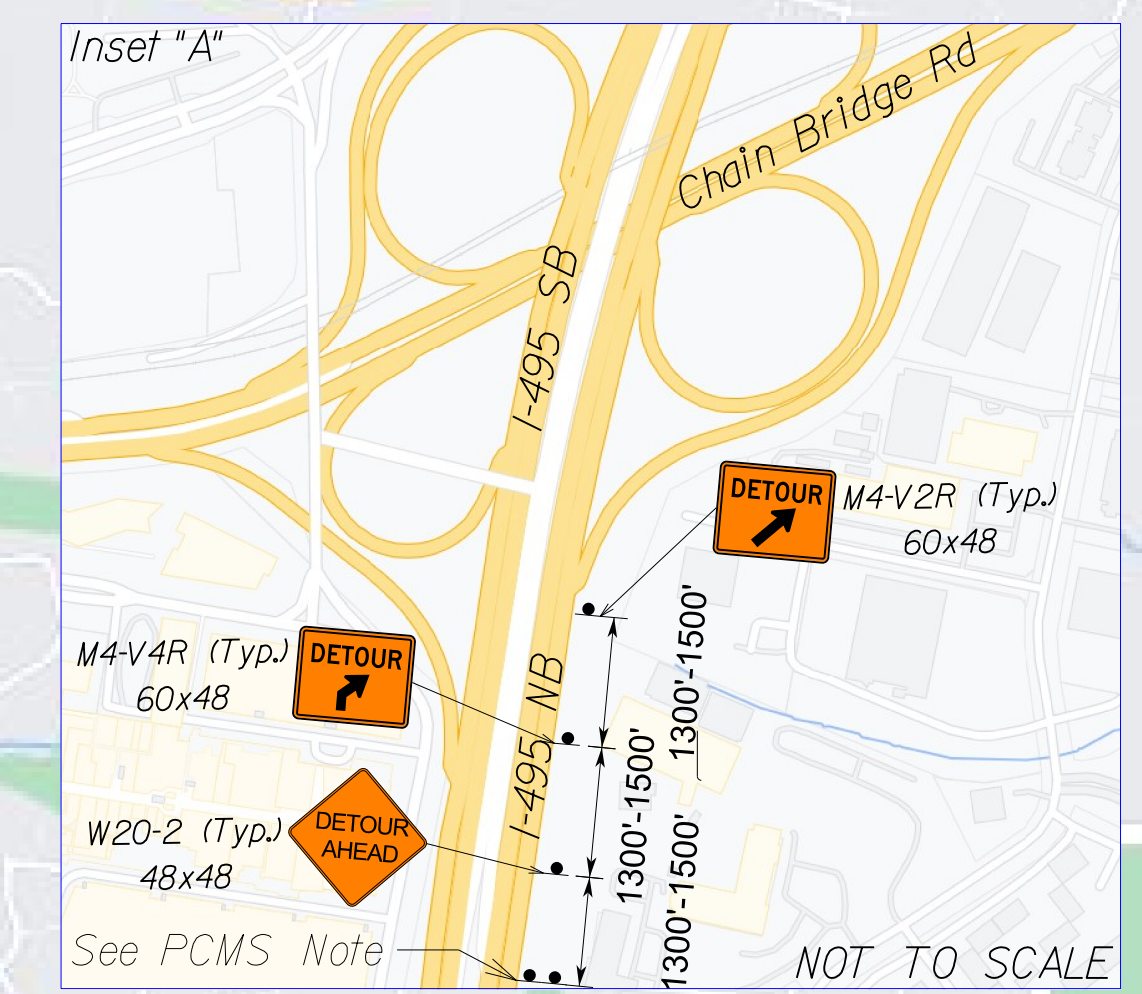
**Detour Map Legend**

- Denotes Closed Route
- Denotes Detour Route
- Denotes Traffic Flow
- Denotes Signalized Intersection



**PROPOSED PCMS MESSAGE**

*BEFORE* RAMP CLOSURE MESSAGE:	*DURING* RAMP CLOSURE MESSAGE:
RAMP TO EXIT 44 WILL BE CLOSED MONTH DAY TIME	RAMP TO EXIT 44 CLOSED FOLLOW DETOUR



NOVA DISTRICT

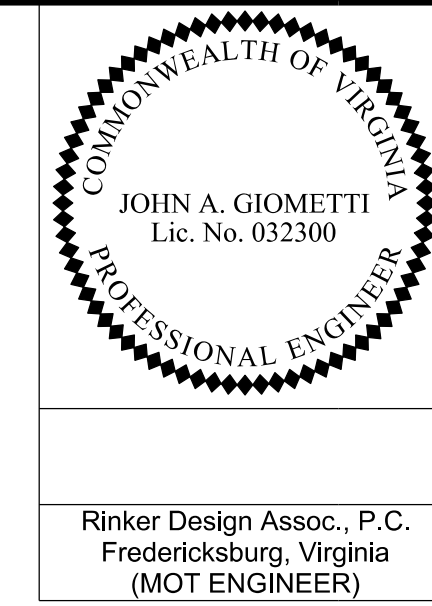
11/7/2022

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

# Detour Plan - Phase 1D Georgetown Pike to I-495 SB



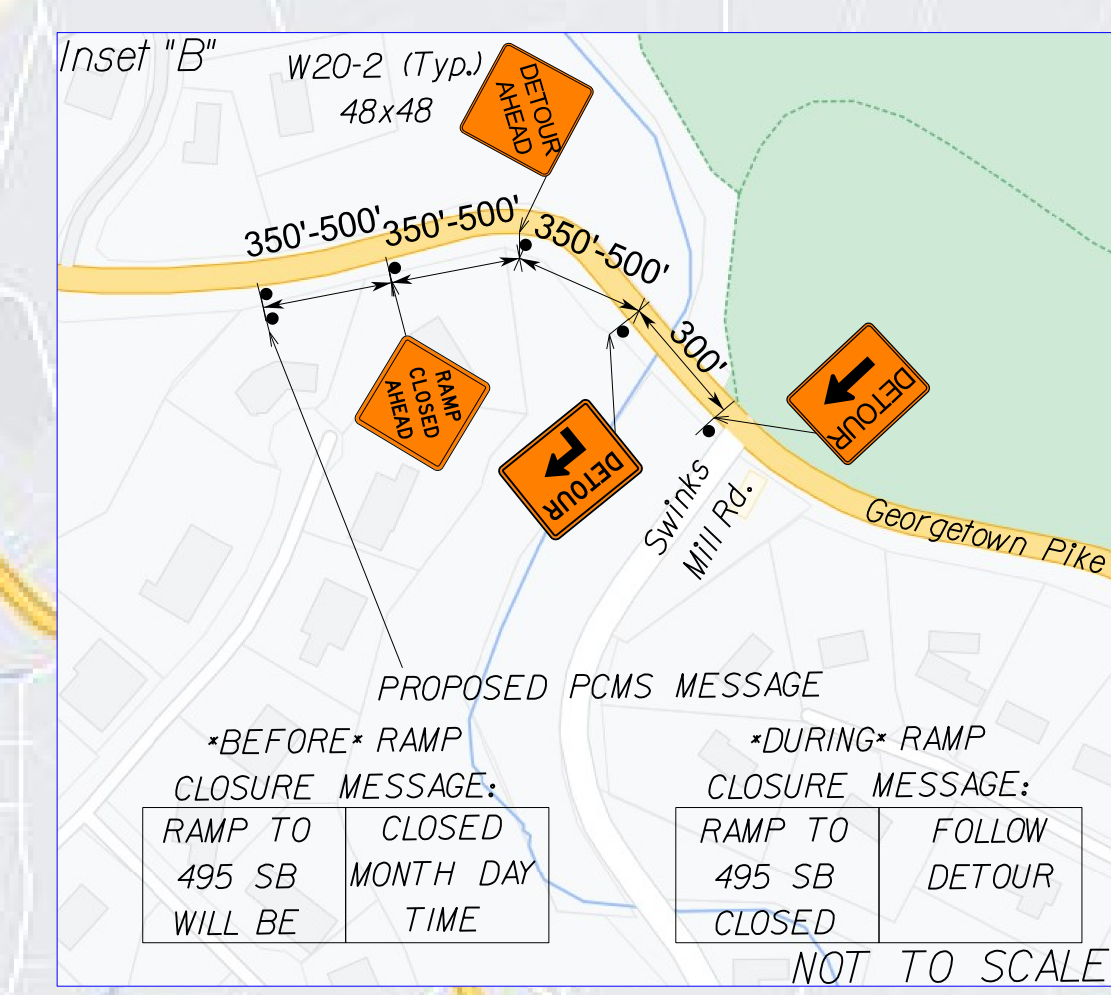
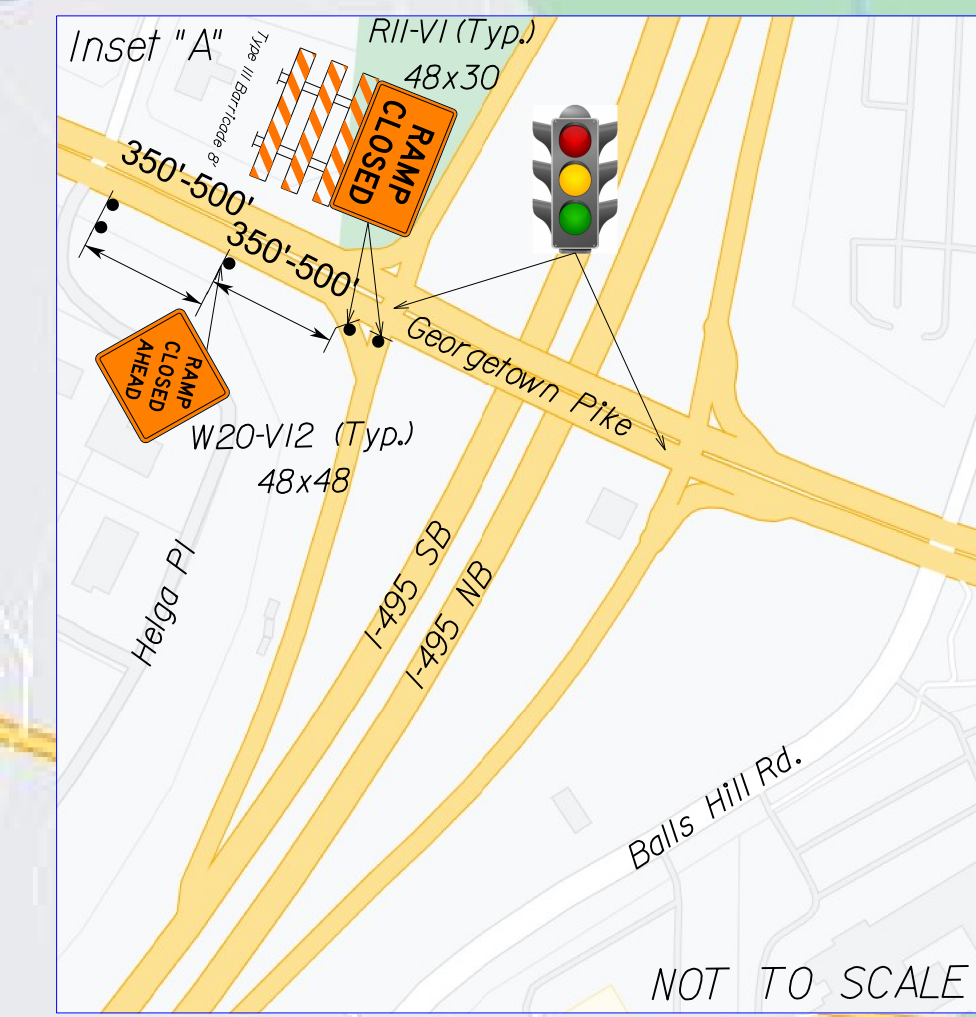
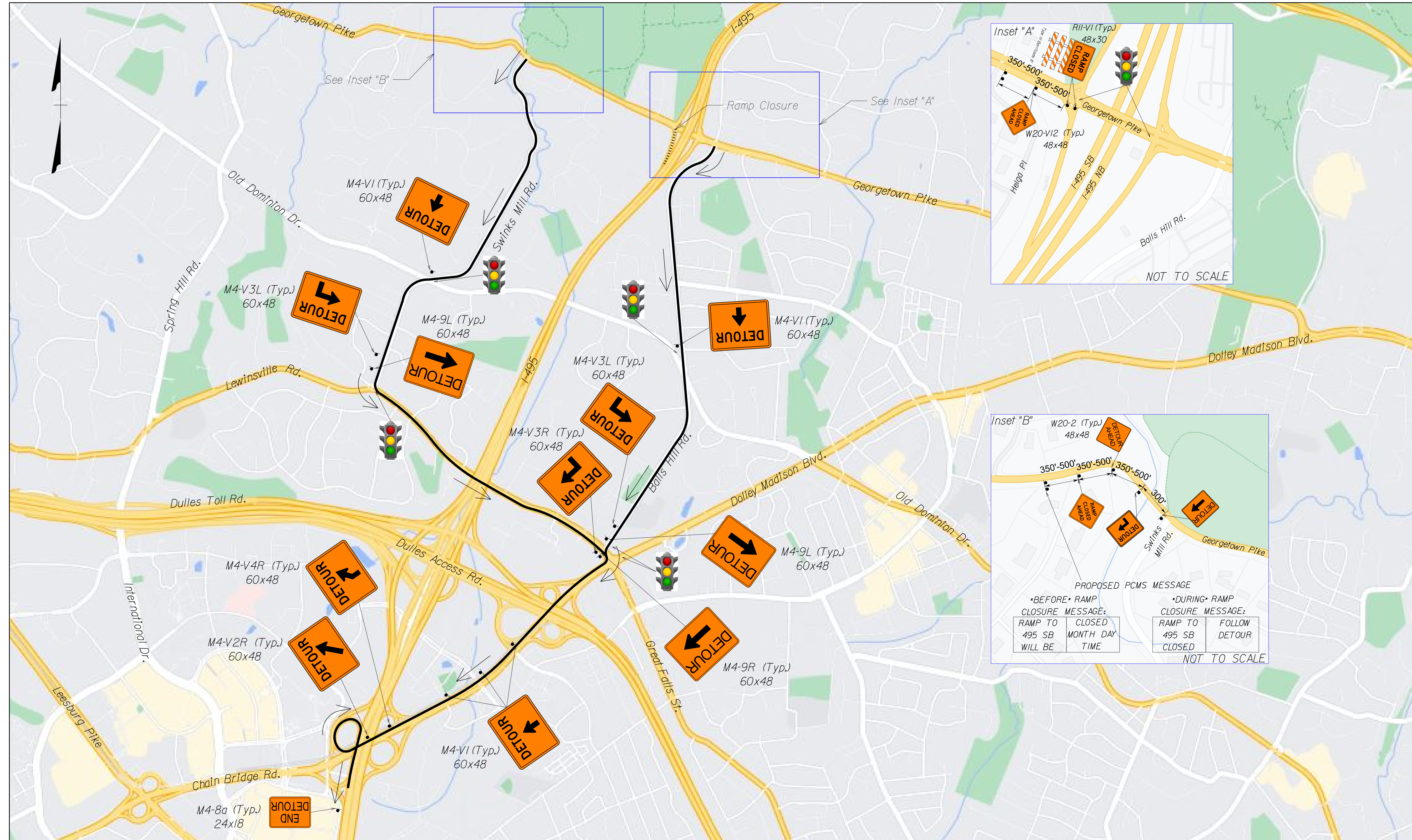
REVISED	STATE	ROUTE	STATE	VDOT PROJECT NO.	SHEET NO.
	VA	495		0495-029-419 C501 RW201	IT(5) AREA 3

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)

**Detour Map Legend**

- Denotes Closed Route
- Denotes Detour Route
- Denotes Traffic Flow
- Denotes Signalized Intersection



PROPOSED PCMS MESSAGE

*BEFORE* RAMP CLOSURE MESSAGE:		*DURING* RAMP CLOSURE MESSAGE:	
RAMP TO	CLOSED	RAMP TO	FOLLOW
495 SB	MONTH DAY	495 SB	DETOUR
WILL BE	TIME	CLOSED	

APPROVED FOR CONSTRUCTION

NOVA DISTRICT

11/7/2022



PROJECT MANAGER VDOT - *Ritopal 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 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 3

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

10/16/2022

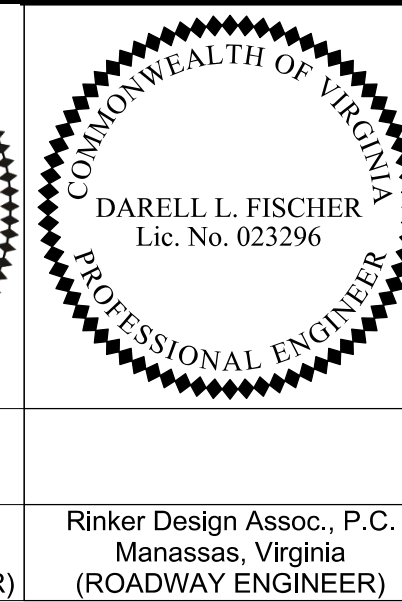
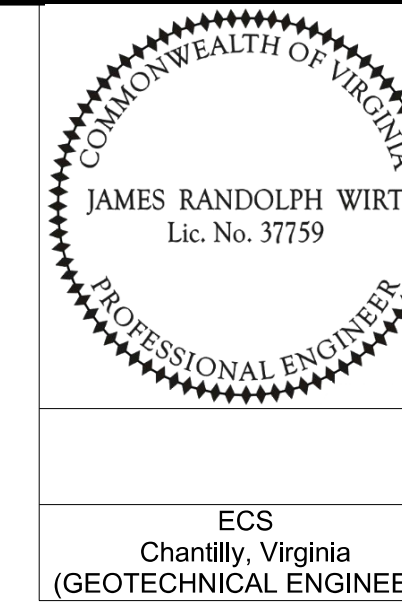
VDOT PROJECT NO. 0495-029-419	SHEET NO. 2 AREA 3
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APPROVED FOR CONSTRUCTION



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 Accurmark - 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 AREA 3

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

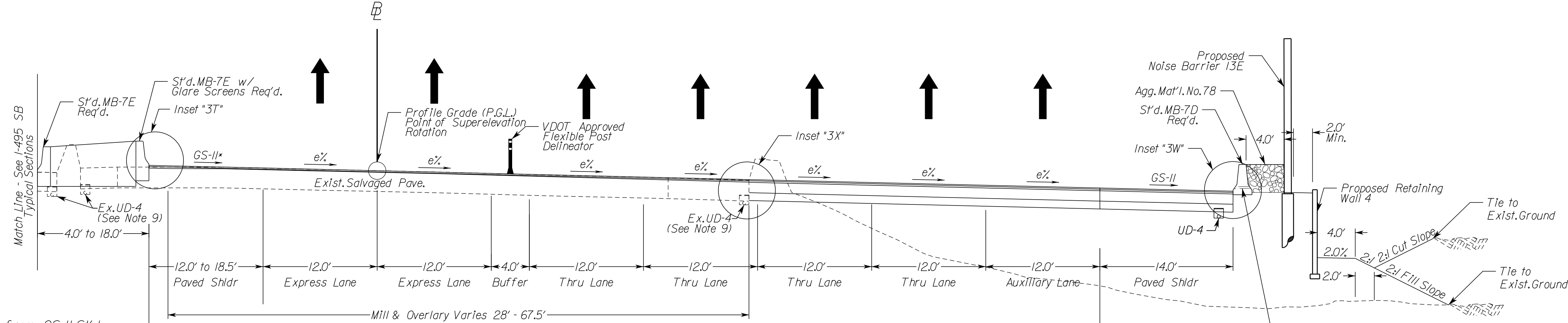
ECS Chantilly, Virginia (GEOTECHNICAL ENGINEER)  
 Rinker Design Assoc., P.C. Manassas, Virginia (ROADWAY ENGINEER)

## I-495XL Northbound Superelevated Section, 7 Lane Interstate

Geometric Design Standard for Urban Interstate (GS-INT): V-70 MPH

(Not to Scale)

Constr.



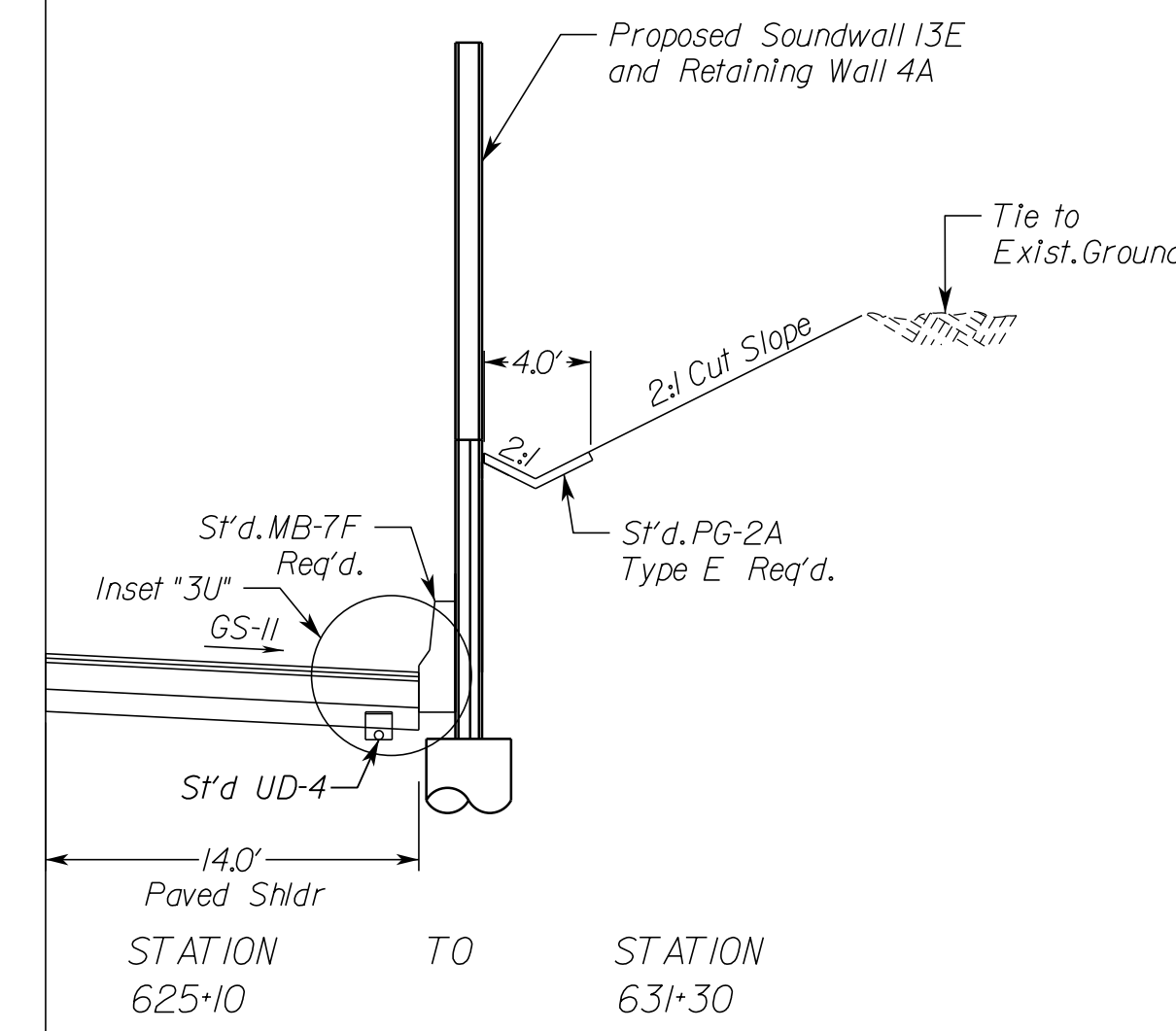
\* Deviation from GS-II S't.d. Sta. 615+00 to 640+00

STATION 615+00 TO STATION 633+50

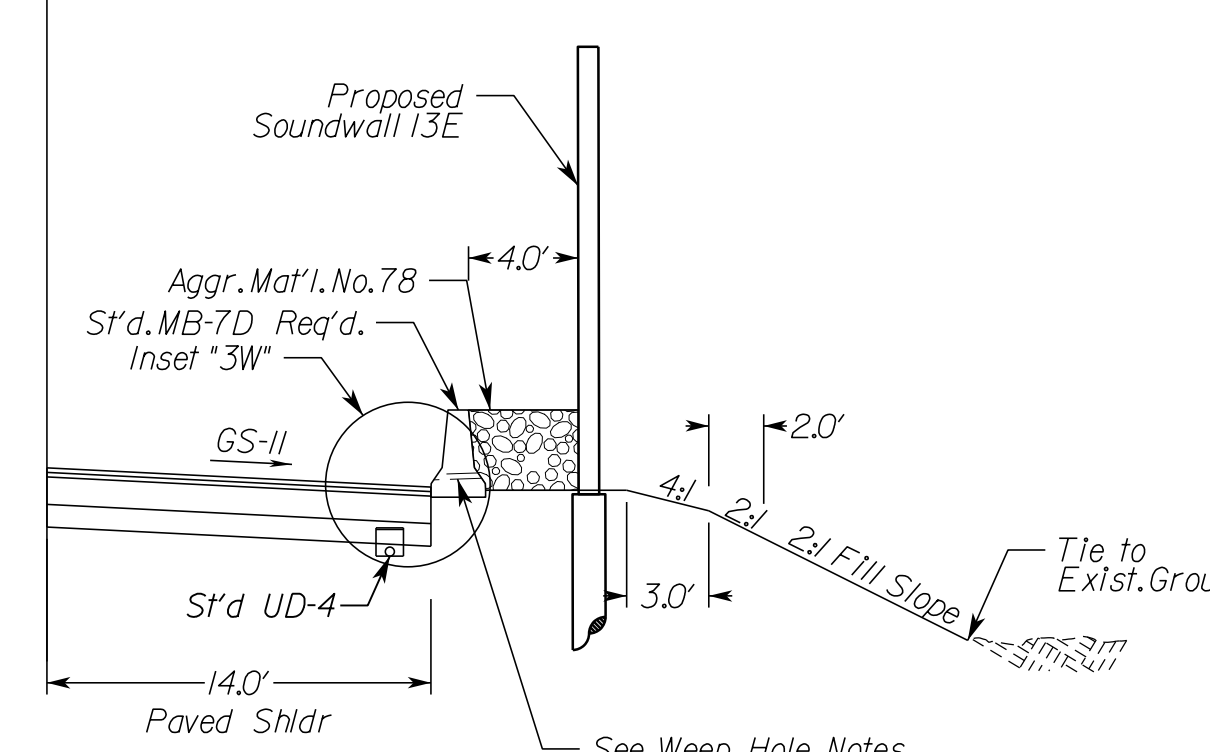
STATION 615+00 TO STATION 616+36

### 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.
- 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(9). 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.



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 631+30 TO STATION 633+50

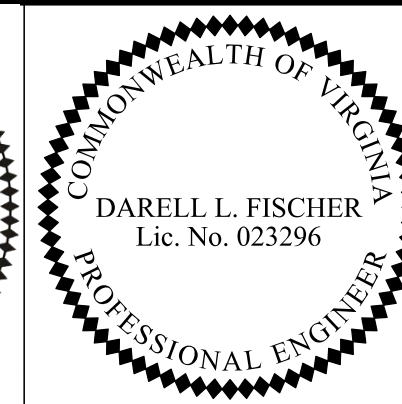
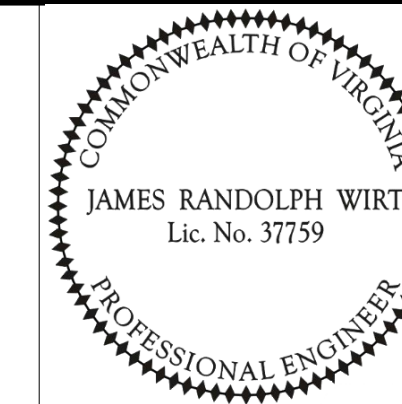
N.T.S.	VDOT PROJECT NO. 0495-029-419	SHEET NO. 2A AREA 3
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APPROVED FOR CONSTRUCTION

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  
 Dewberry - Ron Jakomilich, PE, (703) 849-0651  
 SUBSURFACE UTILITY BY, DATE Accurmark - Michael Taylor, LS, (703) 635-3060, 12/2021



ECS  
 Chantilly, Virginia  
 (GEOTECHNICAL ENGINEER)

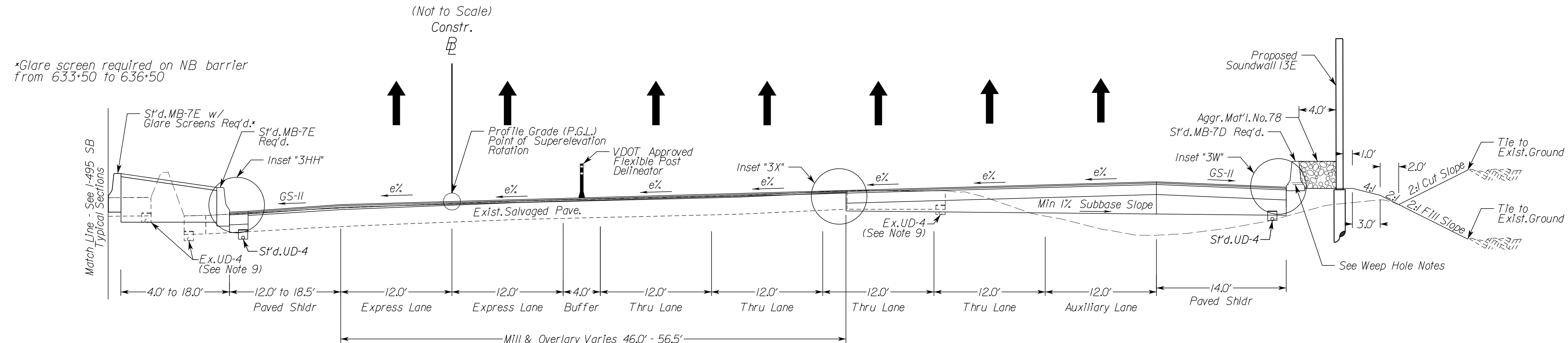
Rinker Design Assoc., P.C.  
 Manassas, Virginia  
 (ROADWAY ENGINEER)

REVISED	STATE	ROUTE	STATE	VDOT PROJECT NO.	SHEET NO.
	VA.	495		0495-029-419 C501 RW201	2A(1) AREA 3

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

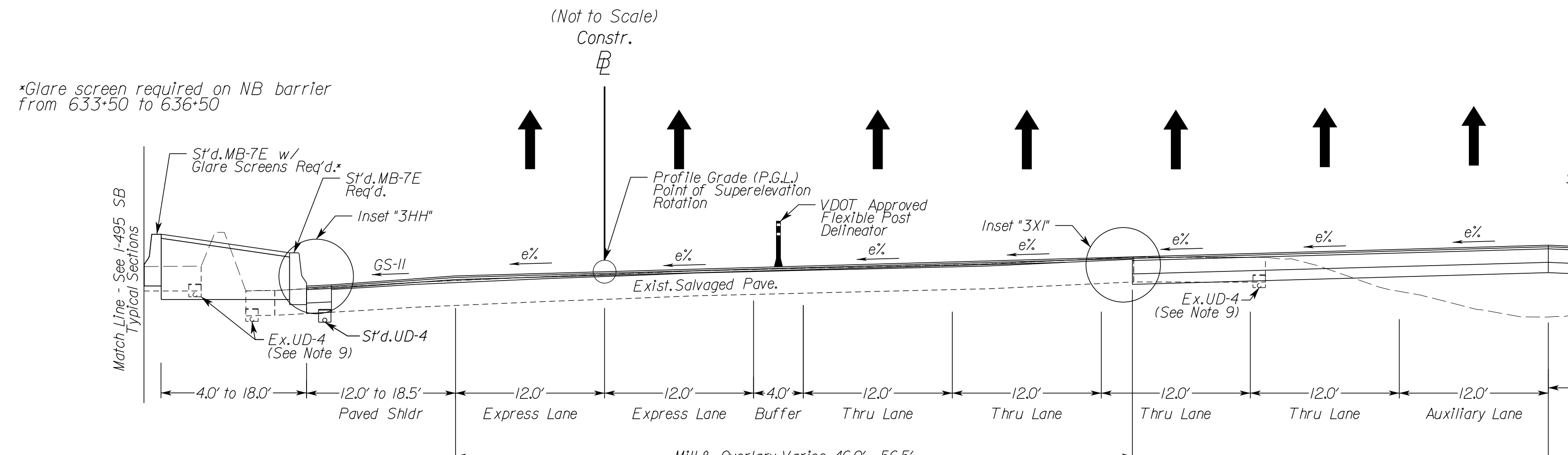
Geometric Design Standard for Urban Interstate (GS-INT): V=70 MPH



**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.

## I-495XL Northbound Superelevated Section, 7 Lane Interstate

Geometric Design Standard for Urban Interstate (GS-INT): V=70 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.
- 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(9). 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

NOVA DISTRICT

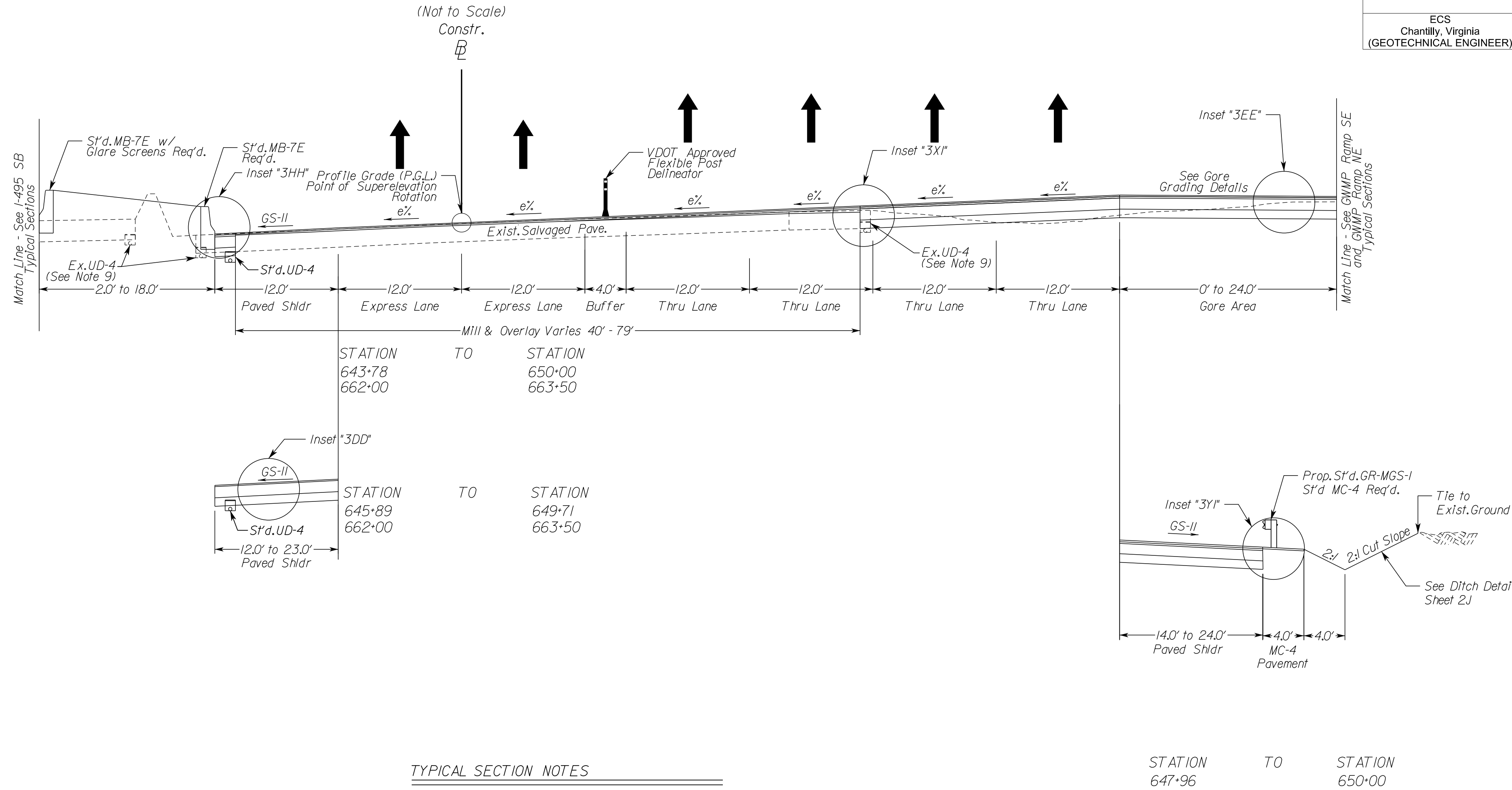


PROJECT MANAGER VDOT - Rupal Shah, P.E. (703) 259-2362  
SURVEYED BY, DATE RDA - Nicholas Kaugall's LS (703) 334-0837, 12/2021  
DESIGN BY RDA - Darrell Fischer, P.E. (703) 334-0823  
Dewberry - Ron Jakomlitch, P.E. (703) 849-0651  
SUBSURFACE UTILITY BY, DATE Accurmark - Michael Taylor, LS (703) 635-3060,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

# Typical Sections

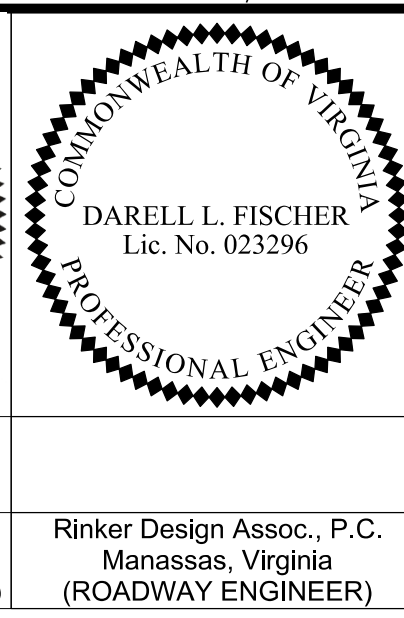
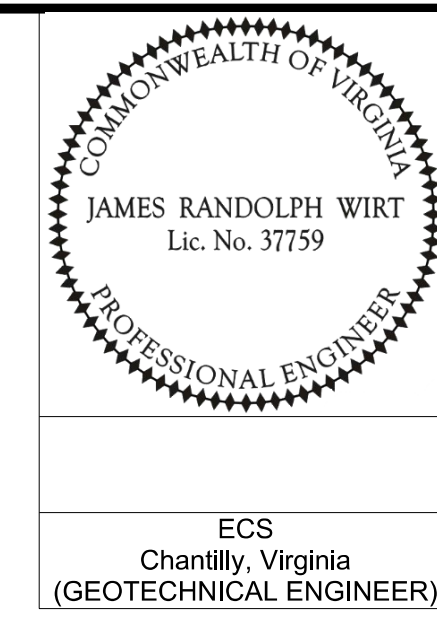
## I-495XL Northbound Superelevated Section, 6 Lane Interstate

Geometric Design Standard for Urban Interstate (GS-INT): V-60/70 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.
- 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,QA 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(9). 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.
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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(2) AREA 3

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

STATION 647+96 TO STATION 650+00

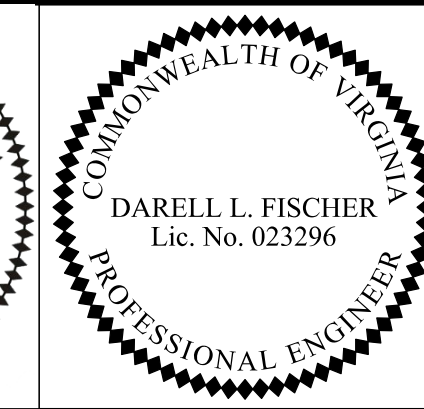
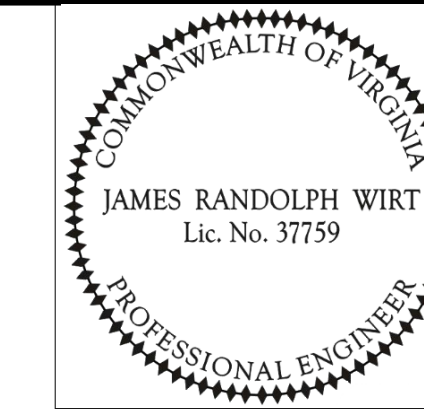
N.T.S.	VDOT PROJECT NO. 0495-029-419	SHEET NO. 2A(2) AREA 3
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APPROVED FOR CONSTRUCTION

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



REVISED	STATE	ROUTE	STATE	VDOT PROJECT NO.	SHEET NO.
	VA	495		0495-029-419 C501 RW201	2A(3) AREA 3

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

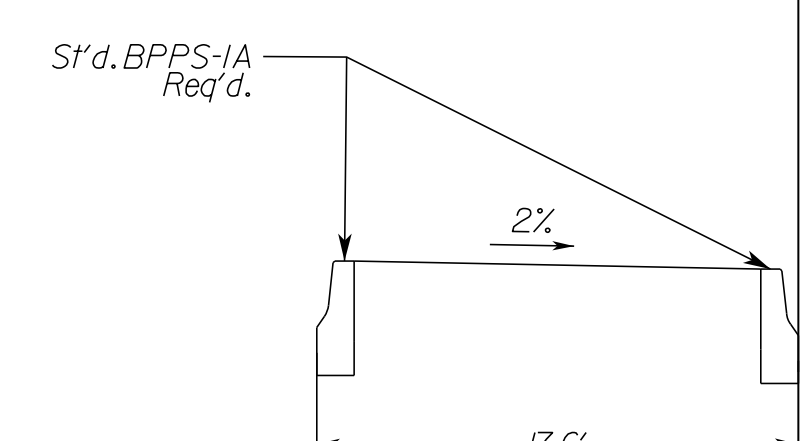
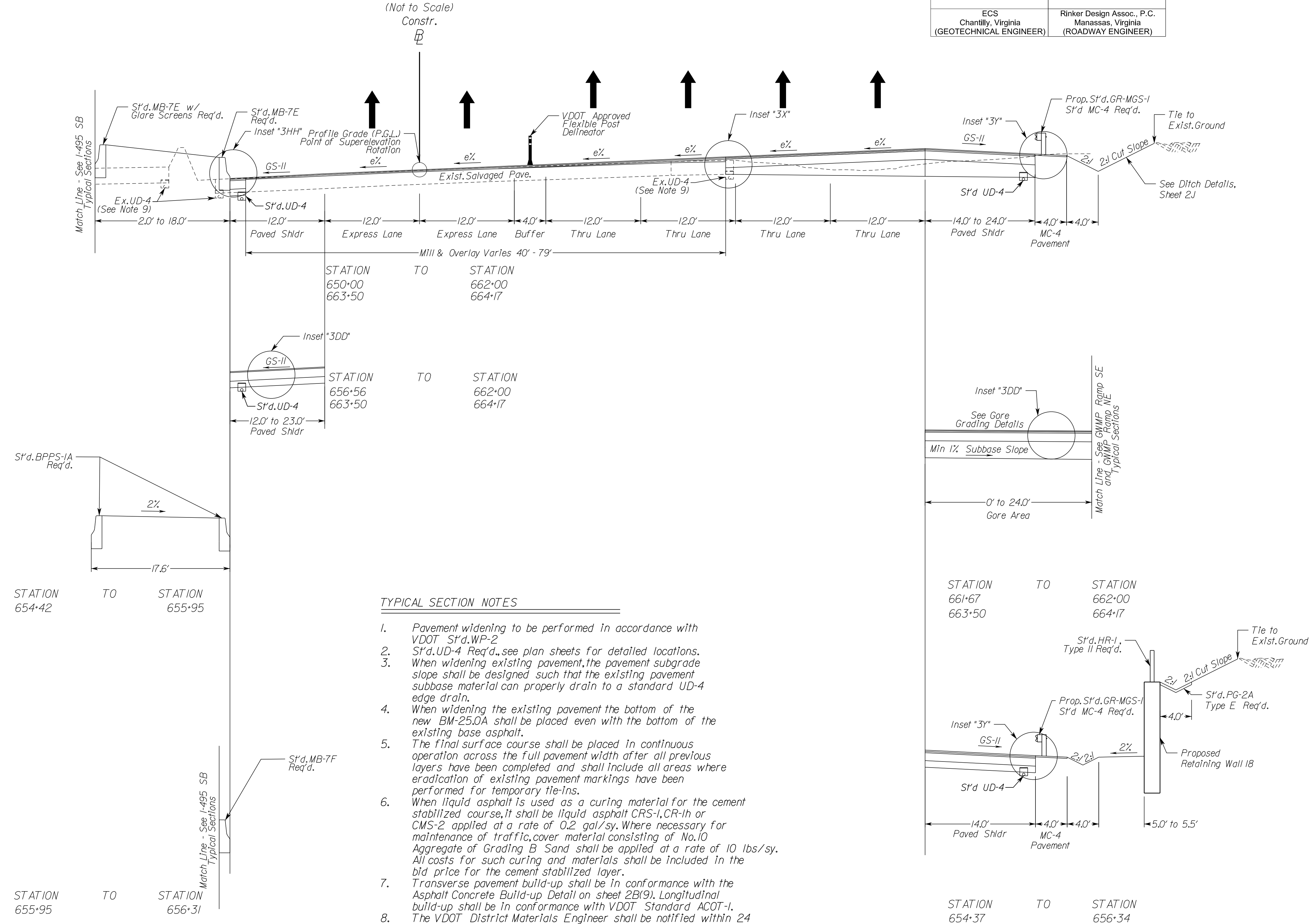
ECS  
Chantilly, Virginia  
(GEOTECHNICAL ENGINEER)

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

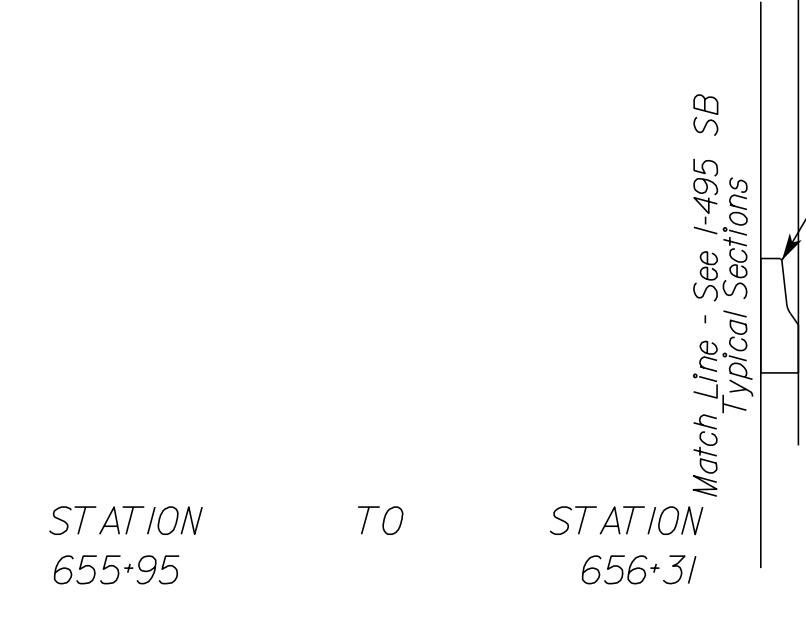
# Typical Sections

## I-495XL Northbound Superelevated Section, 6 Lane Interstate

Geometric Design Standard for Urban Interstate (GS-INT): V-60/70 MPH  
(Not to Scale)



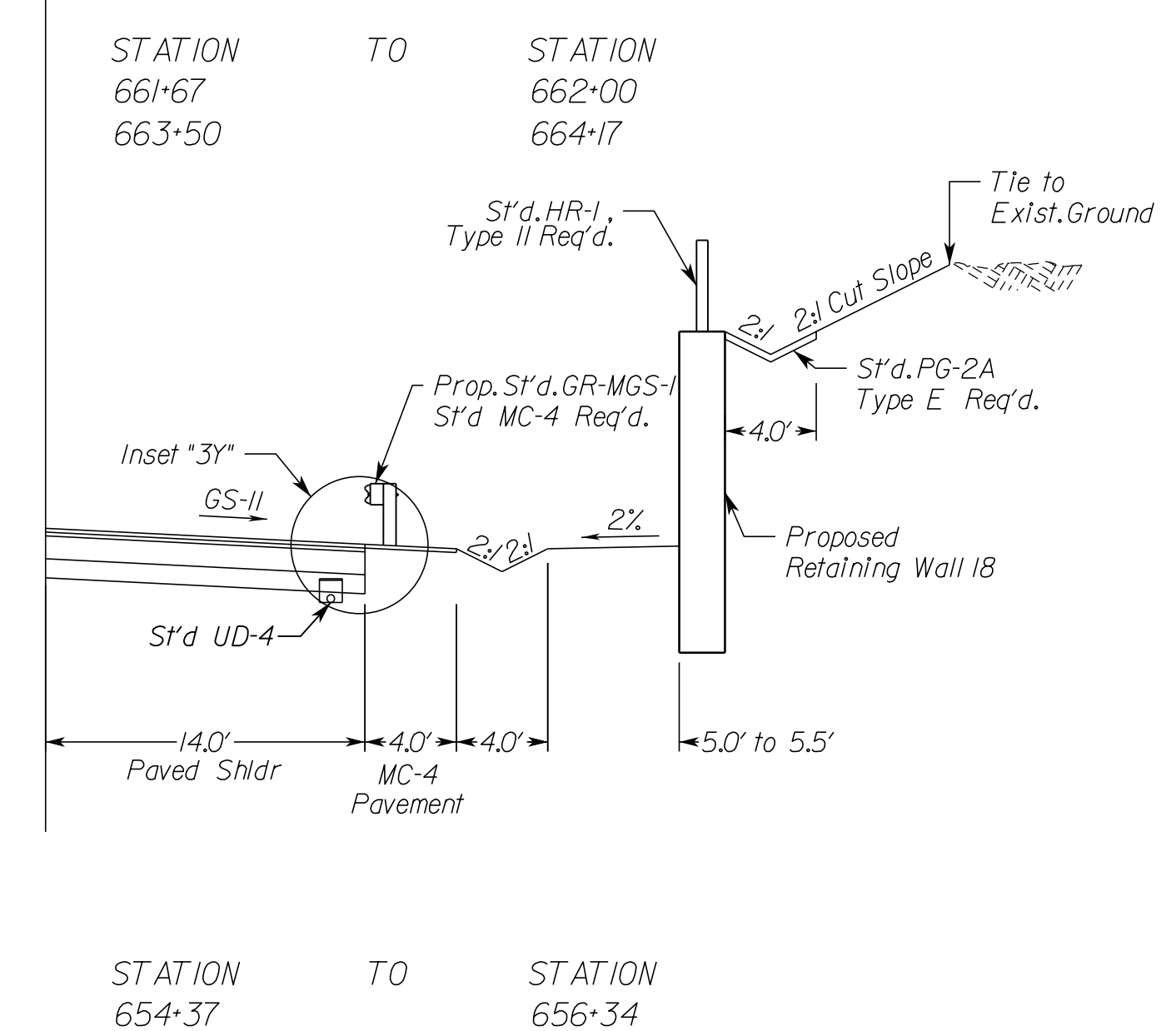
STATION 654+42 TO STATION 655+95



STATION 655+95 TO STATION 656+31

### 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.
- 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(9). 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 654+37 TO STATION 656+34

NOVA DISTRICT

10/16/2022

APPROVED FOR CONSTRUCTION

N.T.S.	VDOT PROJECT NO. 0495-029-419	SHEET NO. 2A(3) AREA 3
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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

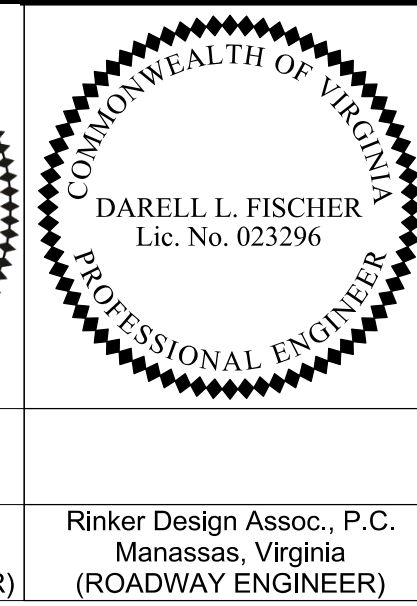
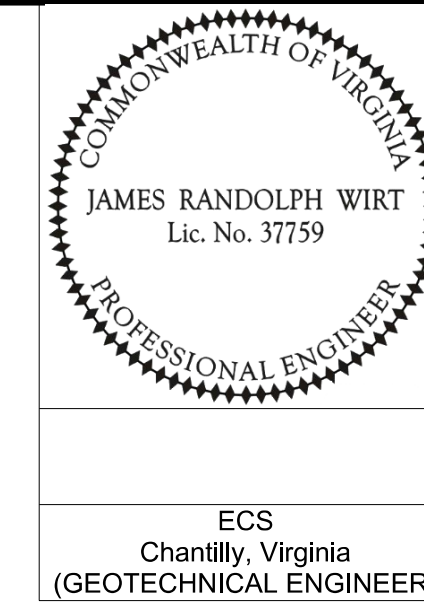
# I-495XL Northbound Superelevated Section, 7 Lane Interstate

Geometric Design Standard for Urban Interstate (GS-INT): V=60 MPH

(Not to Scale)

Constr.

# Typical Sections

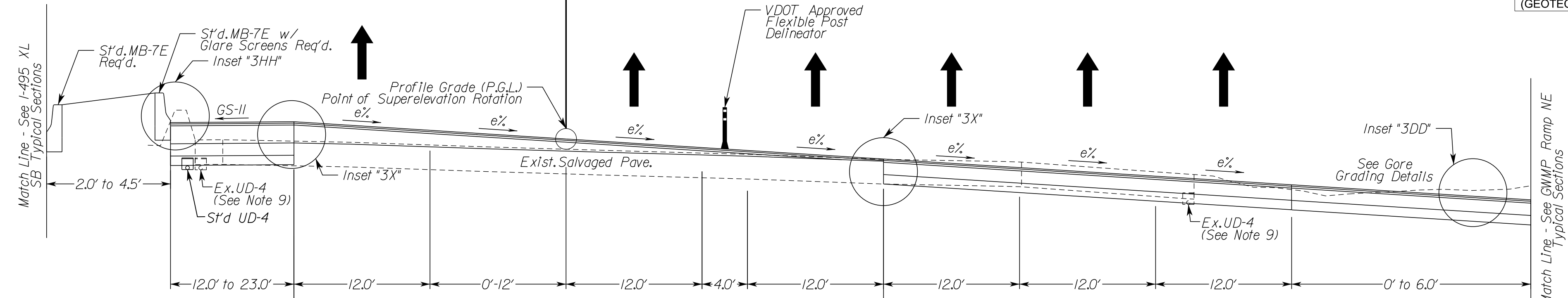


REVISED	STATE	ROUTE	STATE	VDOT PROJECT NO.	SHEET NO.
	VA	495		0495-029-419 C501 RW201	2A(4) AREA 3

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)

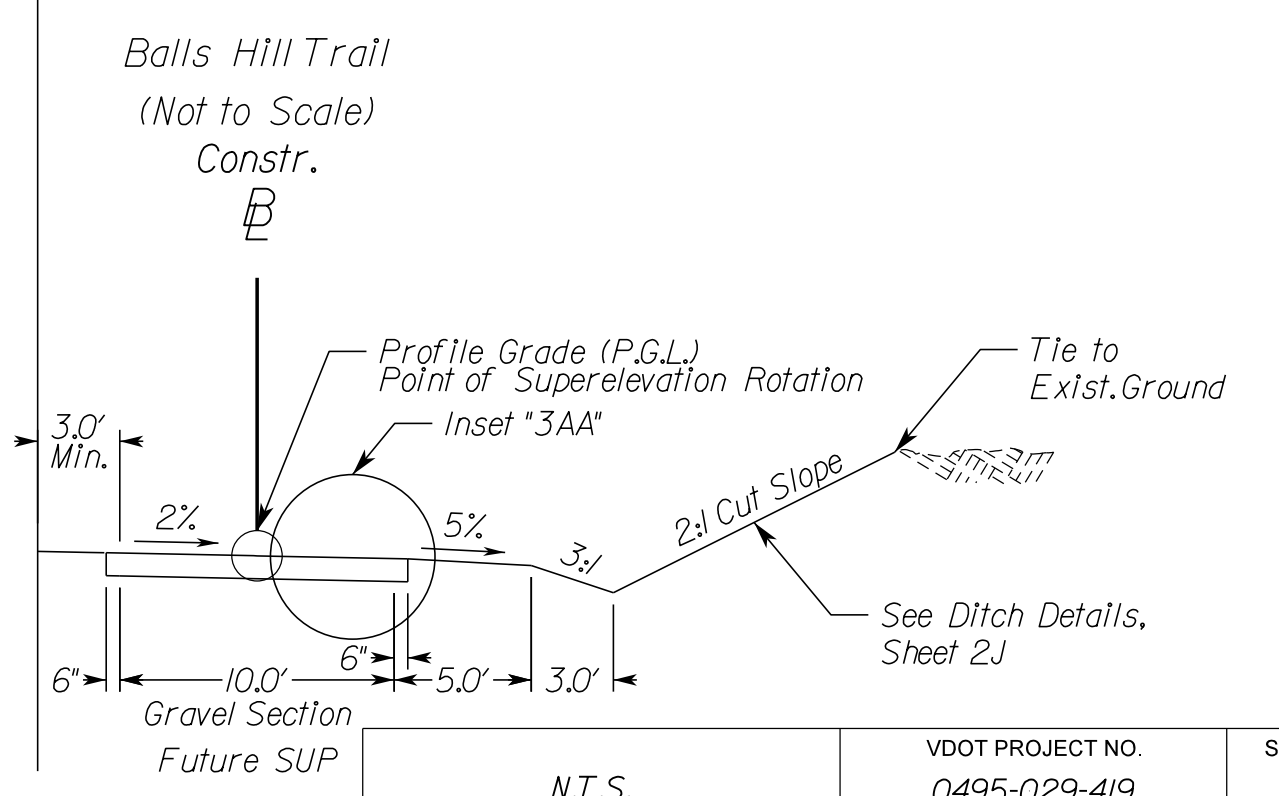
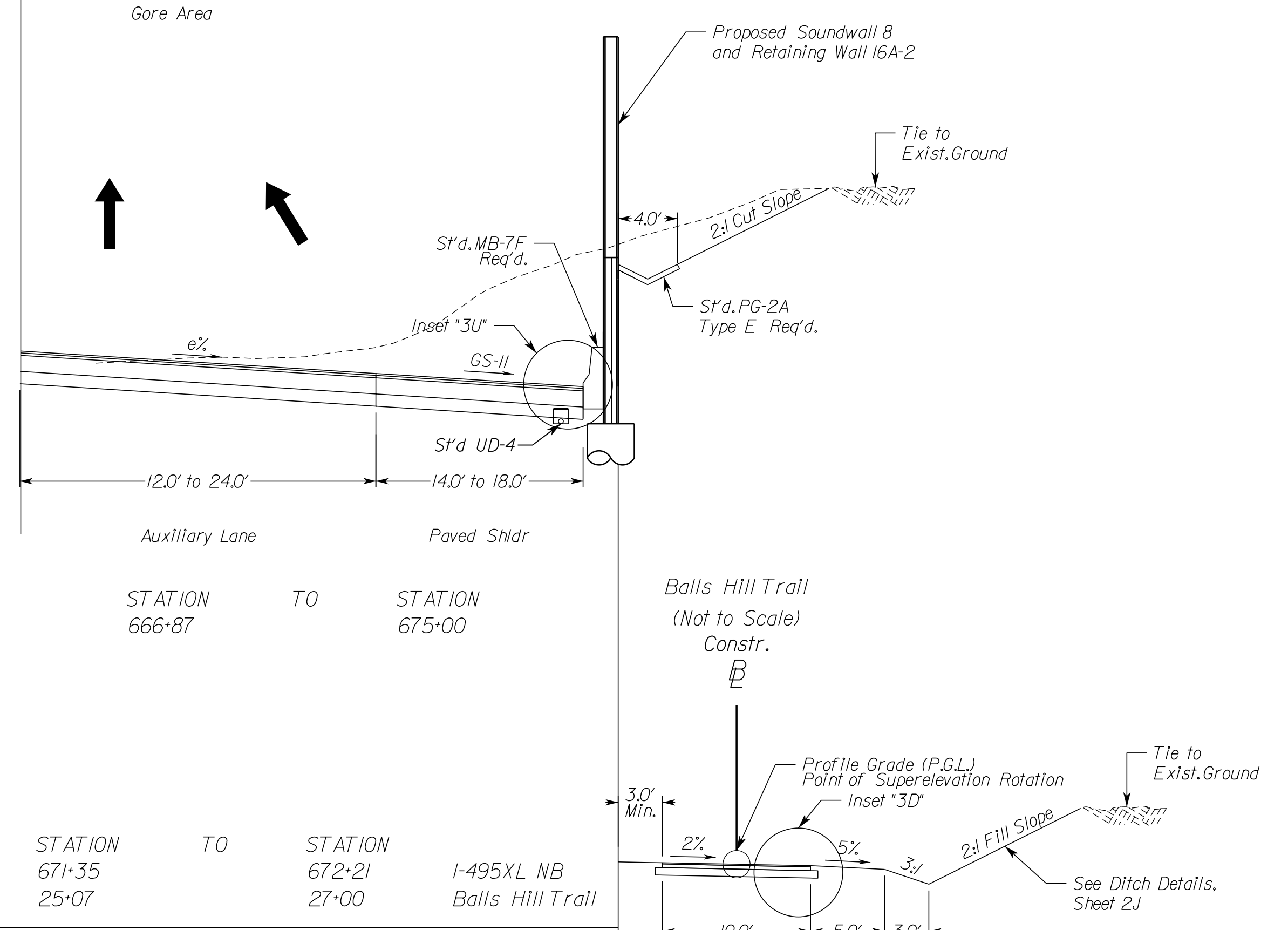
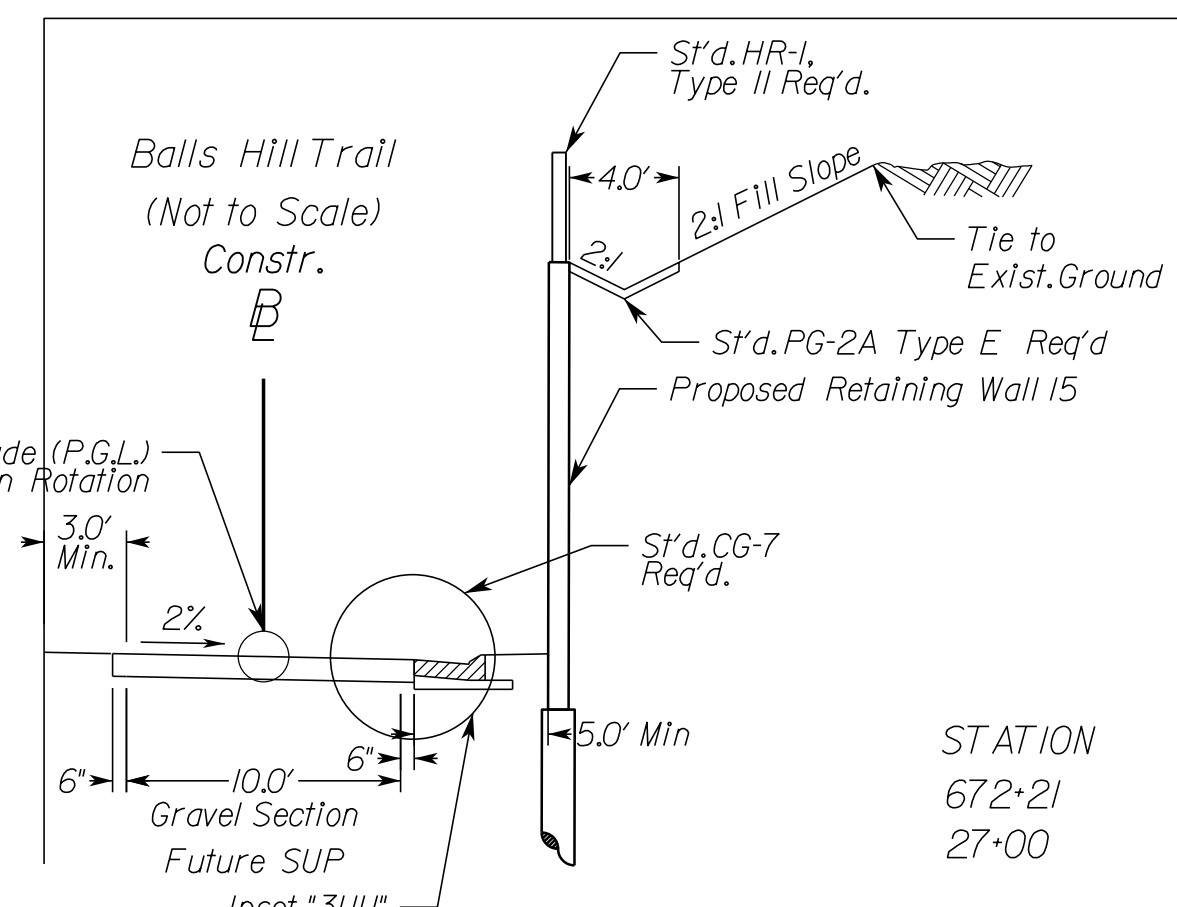
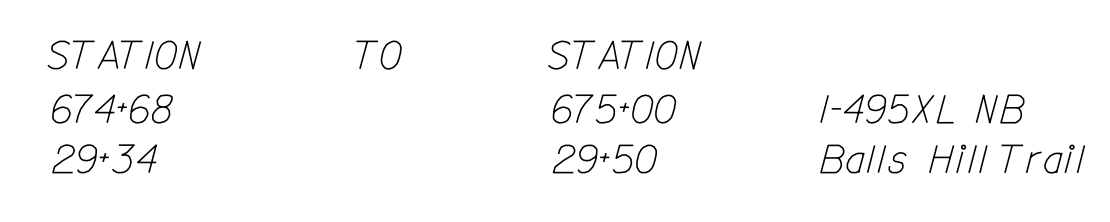
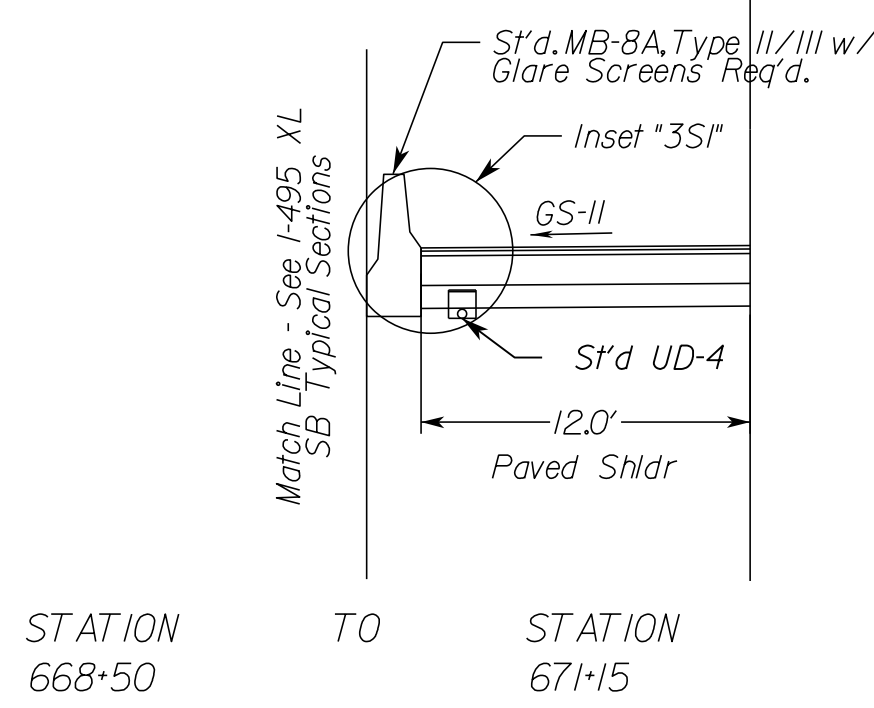
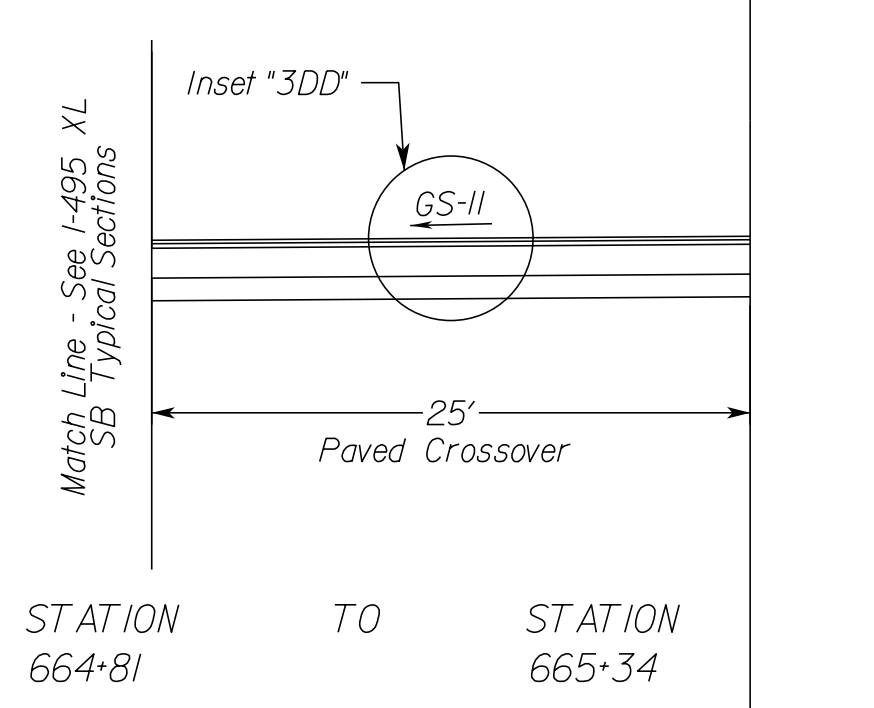
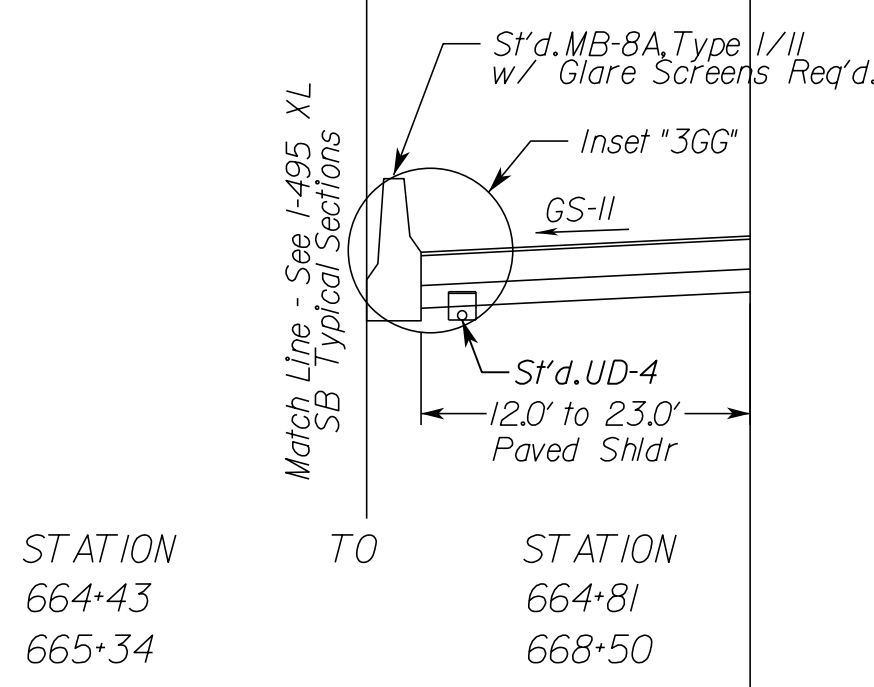
Rinker Design Assoc., P.C.  
Manassas, Virginia  
(ROADWAY ENGINEER)



STATION 664+17 TO STATION 675+00  
Mill & Overlay Varies 40' - 59'

### 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. 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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- Transverse pavement build-up shall be in conformance with the Asphalt Concrete Build-up Detail on sheet 2B(9). Longitudinal build-up shall be in conformance with VDOT Standard ACOT-1.
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NOVA DISTRICT

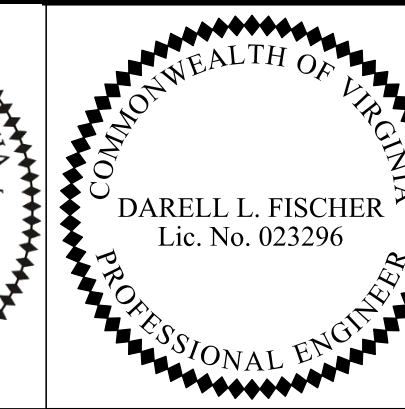
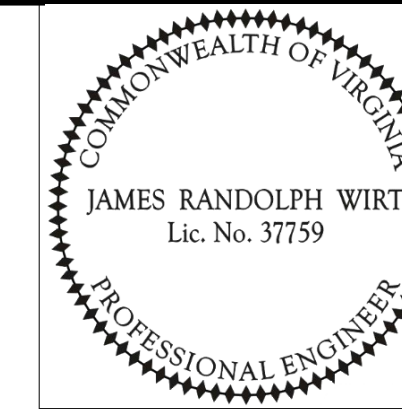
10/16/2022

APPROVED FOR CONSTRUCTION

N.T.S.	VDOT PROJECT NO. 0495-029-419	SHEET NO. 2A(4) AREA 3
--------	----------------------------------	------------------------------



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	2A(5) AREA 3

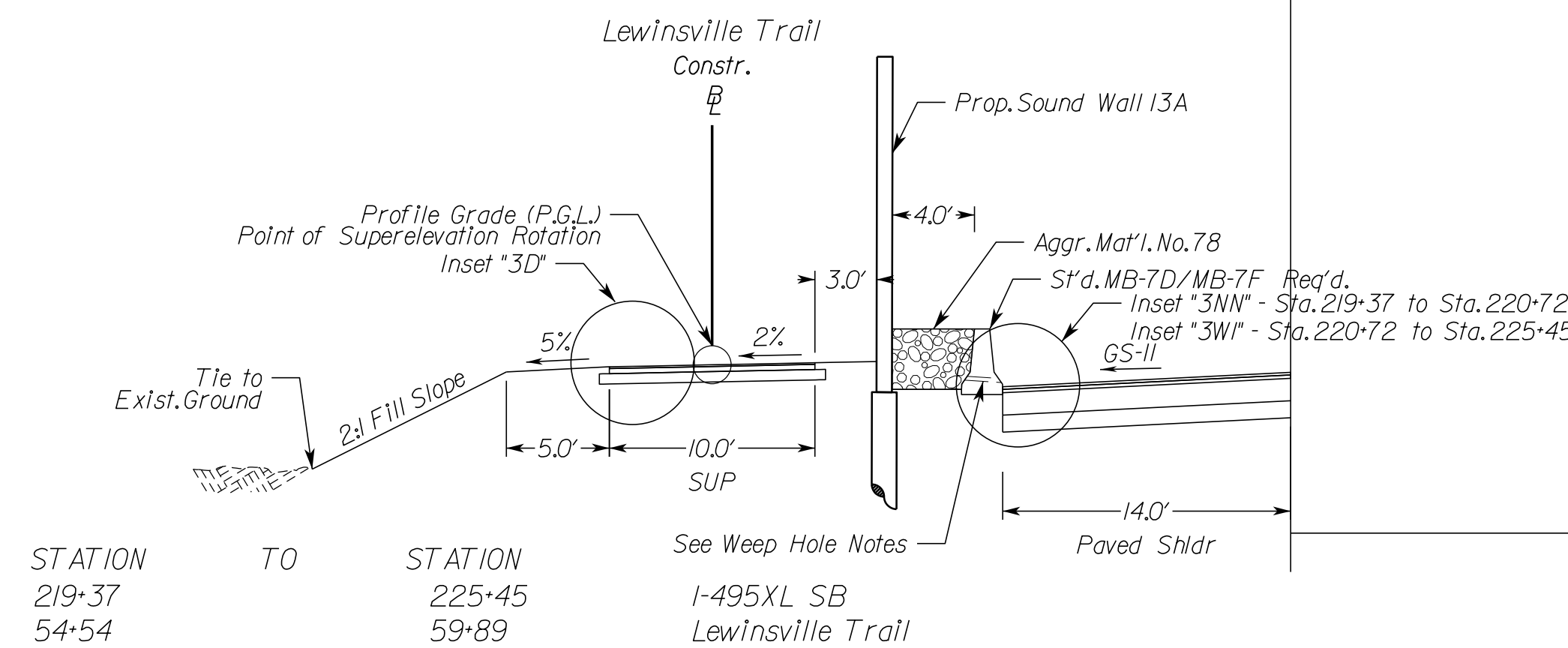
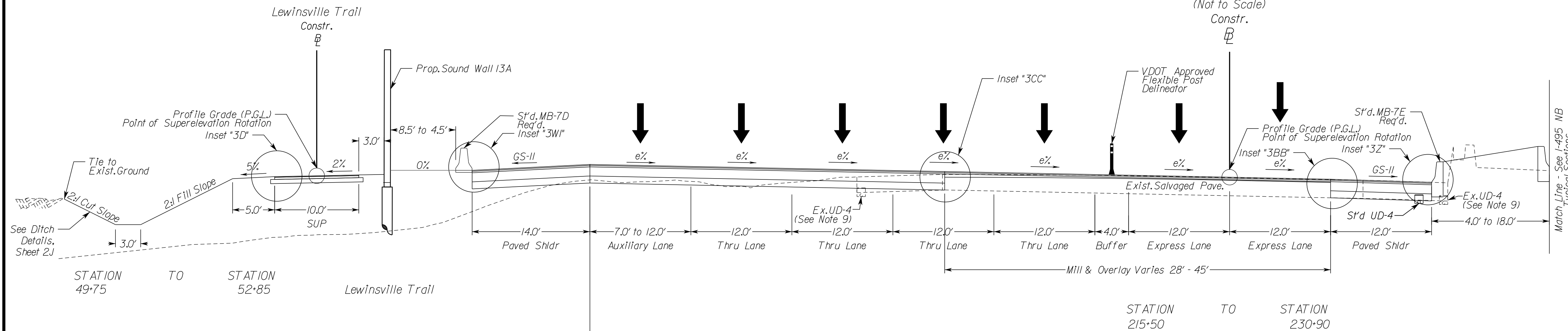
DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT

# Typical Sections

## I-495XL Southbound Superelevated Section, 7 Lane Interstate

Geometric Design Standard for Urban Interstate (GS-INT): V=70 MPH

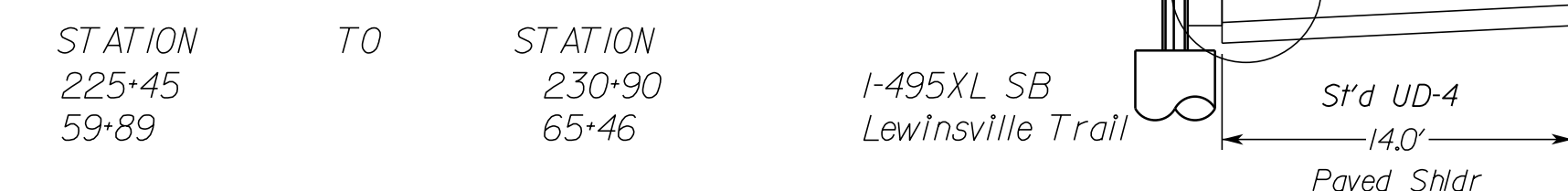
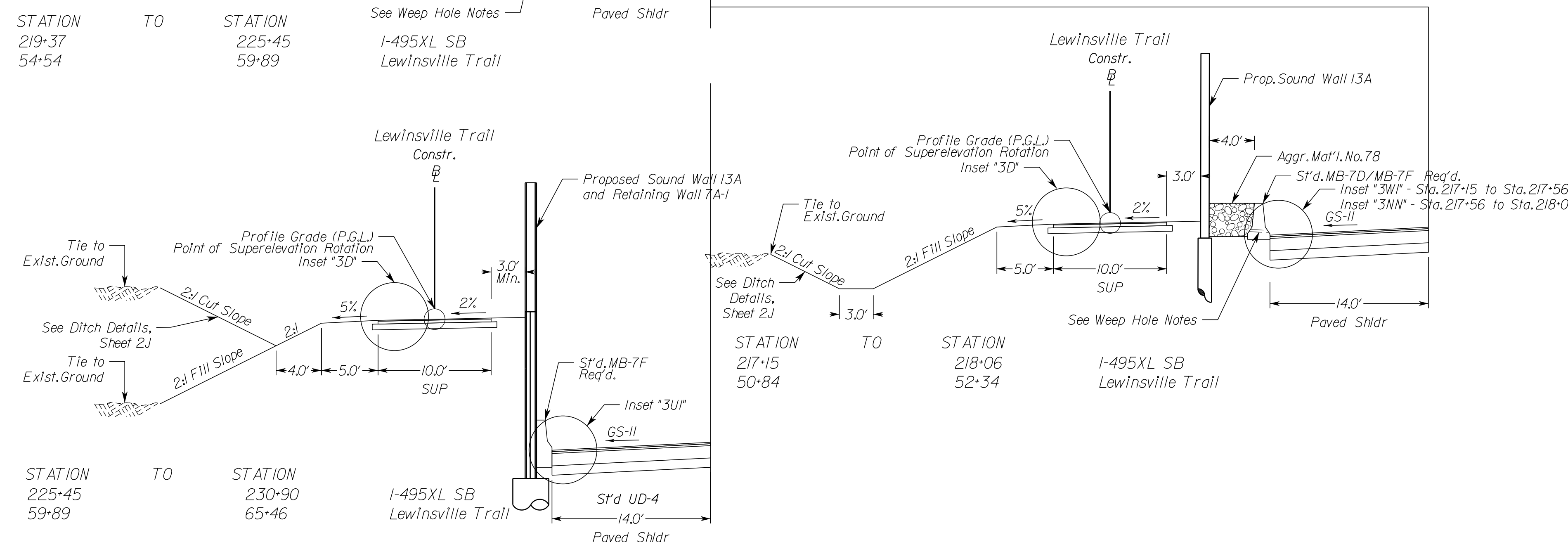
(Not to Scale)



**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.

### 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.
- 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(9). 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 3
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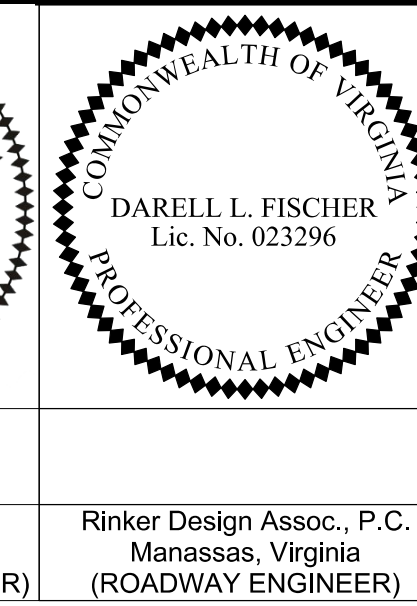
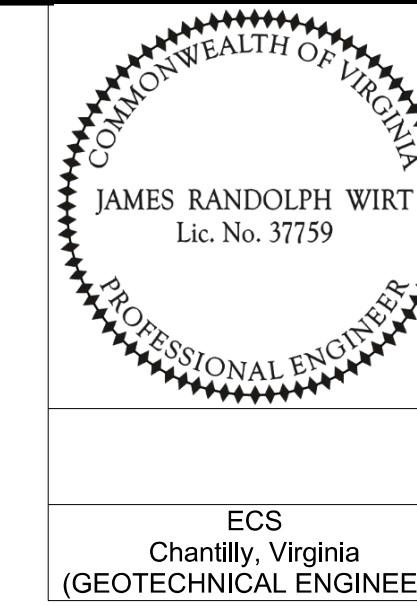
APPROVED FOR CONSTRUCTION

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

# Typical Sections



REVISED	STATE	ROUTE	STATE	VDOT PROJECT NO.	SHEET NO.
	VA.	495		0495-029-419 C501 RW201	2A(6) AREA 3

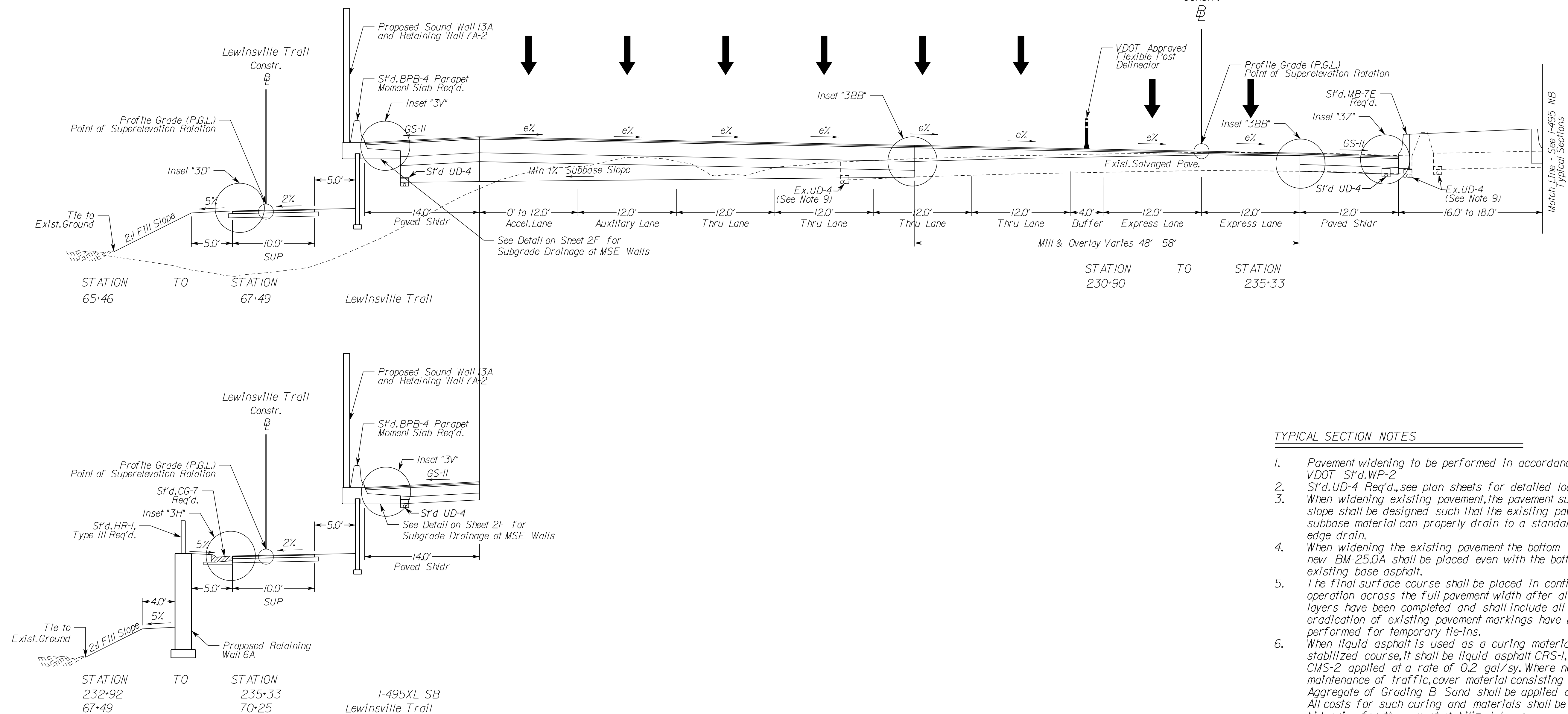
DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT

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

## I-495XL Southbound Superelevated Section, 7 Lane Interstate

Geometric Design Standard for Urban Interstate (GS-INT): V=70 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.
- 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

10/16/2022

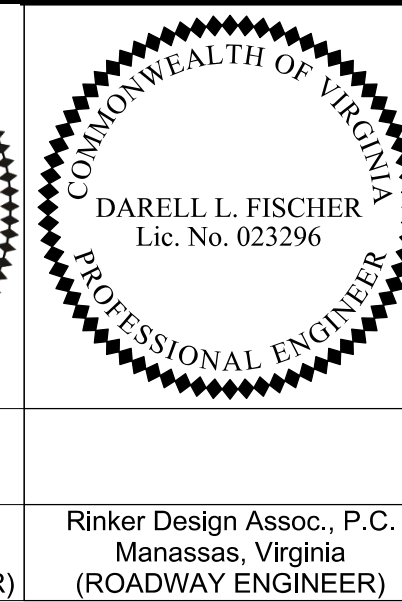
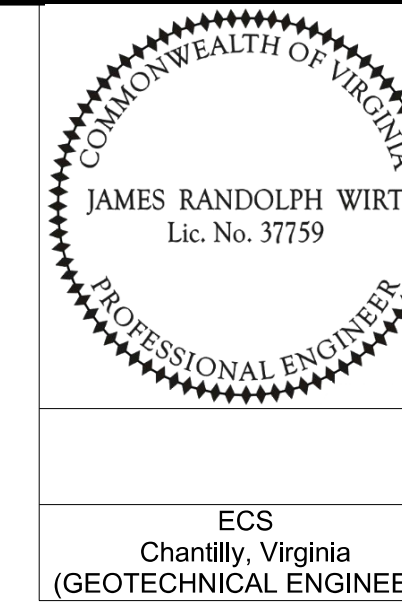
N.T.S.	VDOT PROJECT NO. 0495-029-419	SHEET NO. 2A(6) AREA 3
--------	----------------------------------	------------------------------

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  
 SUBSURFACE UTILITY BY, DATE Accumark - Michael Taylor, LS (703) 635-3060, 12/2021

# Typical Sections



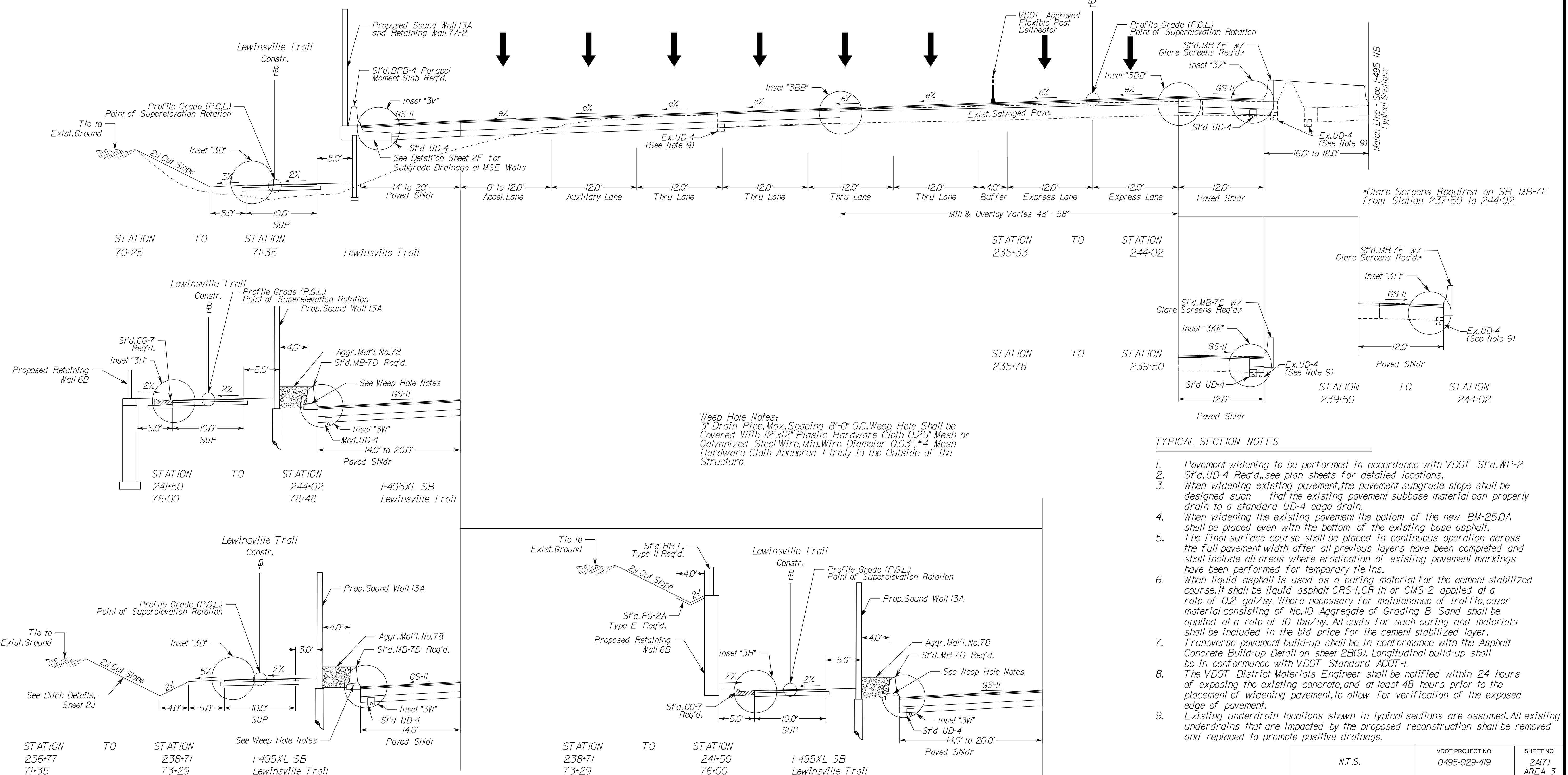
REVISED	STATE	ROUTE	STATE	VDOT PROJECT NO.	SHEET NO.
	VA	495		0495-029-419 C501 RW201	2A(7) AREA 3

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, 7 Lane Interstate

Geometric Design Standard for Urban Interstate (GS-INT): V-70 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.

### TYPICAL SECTION NOTES

- Pavement widening to be performed in accordance with VDOT S't.d.WP-2
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N.T.S.	VDOT PROJECT NO. 0495-029-419	SHEET NO. 2A(7) AREA 3
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APPROVED FOR CONSTRUCTION

NOVA DISTRICT

10/16/2022



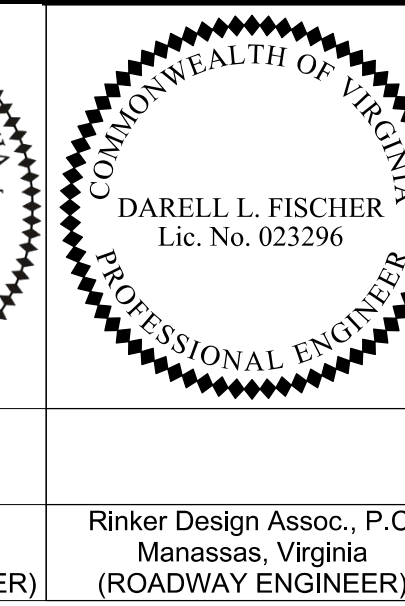
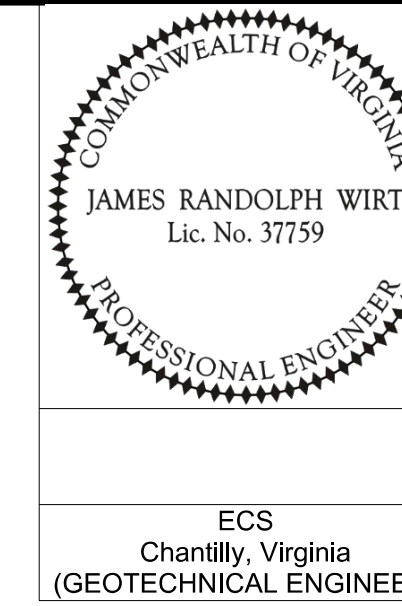
PROJECT MANAGER: VDOT - Rupal Shah, P.E. (703) 259-2362  
 SURVEYED BY, DATE: RDA - Nicholas Kaugaulis, LS (703) 334-0837, 12/2021  
 DESIGN BY: RDA - Darrell Fischer, P.E. (703) 334-0823  
 SUBSURFACE UTILITY BY, DATE: Accumark - Michael Taylor, LS (703) 635-3060, 12/2021

# Typical Sections

## I-495XL Southbound

### Superelevated Section, 7 Lane Interstate

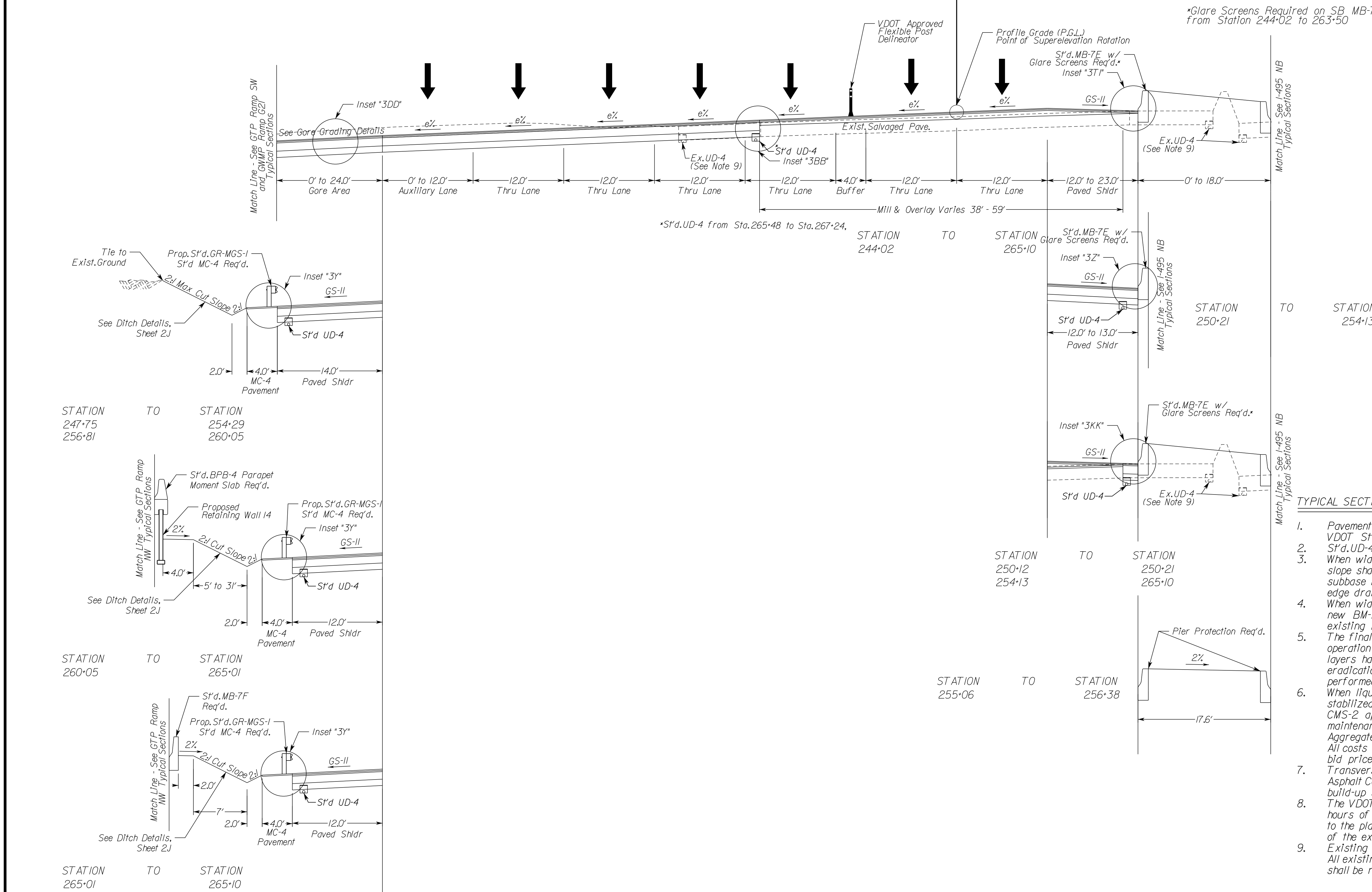
Geometric Design Standard for Urban Interstate (GS-INT): V=70 MPH  
 (Not to Scale)  
 Constr.  $\beta$



REVISED	STATE	ROUTE	STATE	VDOT PROJECT NO.	SHEET NO.
	VA.	495		0495-029-419 C501 RW201	2A(8) AREA 3

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

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N.T.S.	VDOT PROJECT NO. 0495-029-419	SHEET NO. 2A(8) AREA 3
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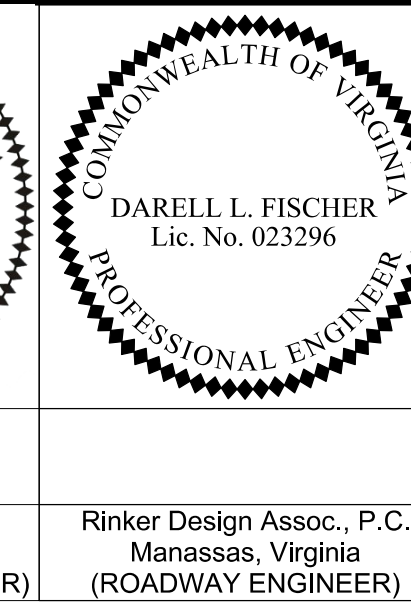
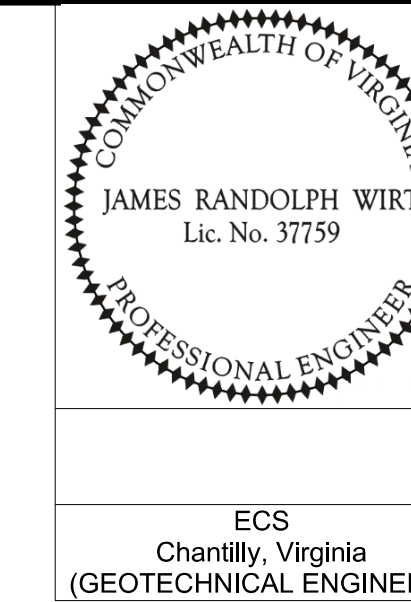
APPROVED FOR CONSTRUCTION

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

# Typical Sections



REVISED	STATE	ROUTE	STATE	VDOT PROJECT NO.	SHEET NO.
	VA	495		0495-029-419 C501 RW201	2A(9) AREA 3

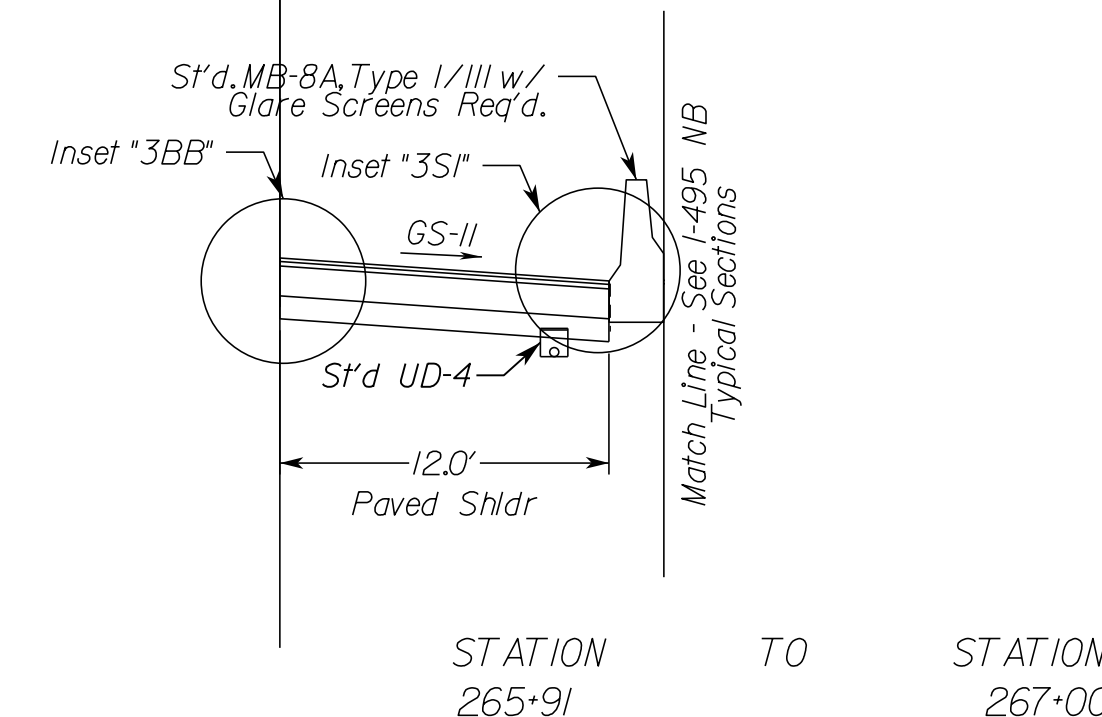
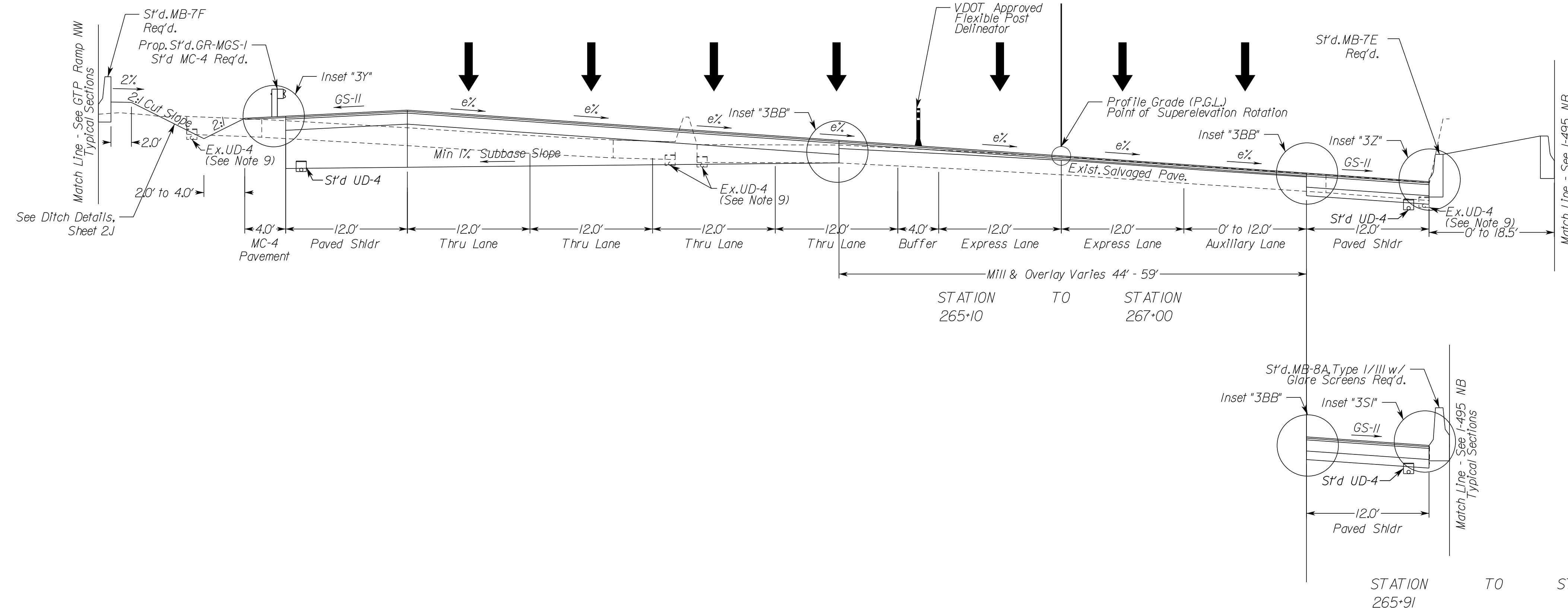
DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT

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 St'd.WP-2
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N.T.S.	VDOT PROJECT NO. 0495-029-419	SHEET NO. 2A(9) AREA 3
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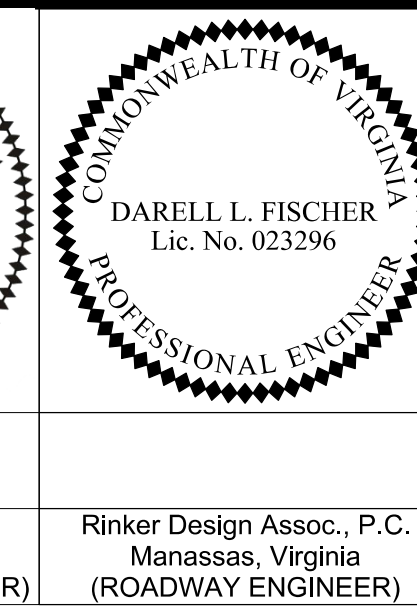
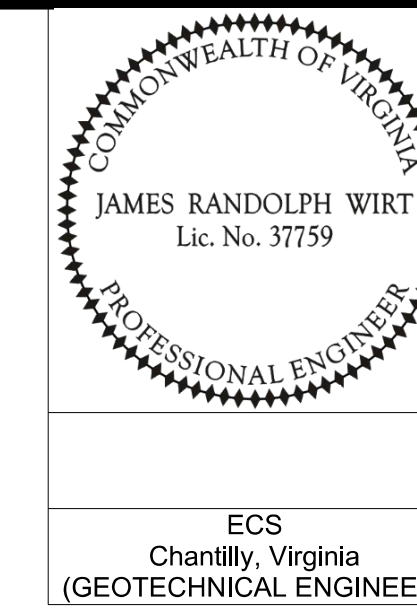
APPROVED FOR CONSTRUCTION

NOVA DISTRICT



PROJECT MANAGER\_VDOT - Rita Pal...  
 SURVEYED BY, DATE\_RDA - Nicholas...  
 DESIGN BY\_RDA - Darrell Fischer...  
 SUBSURFACE UTILITY BY, DATE\_Accumark - Michael Taylor...

# Typical Sections



REVISION	STATE	ROUTE	STATE	VDOT PROJECT NO.	SHEET NO.
	VA	495		0495-029-419 C501 RW201	2A(10) AREA 3

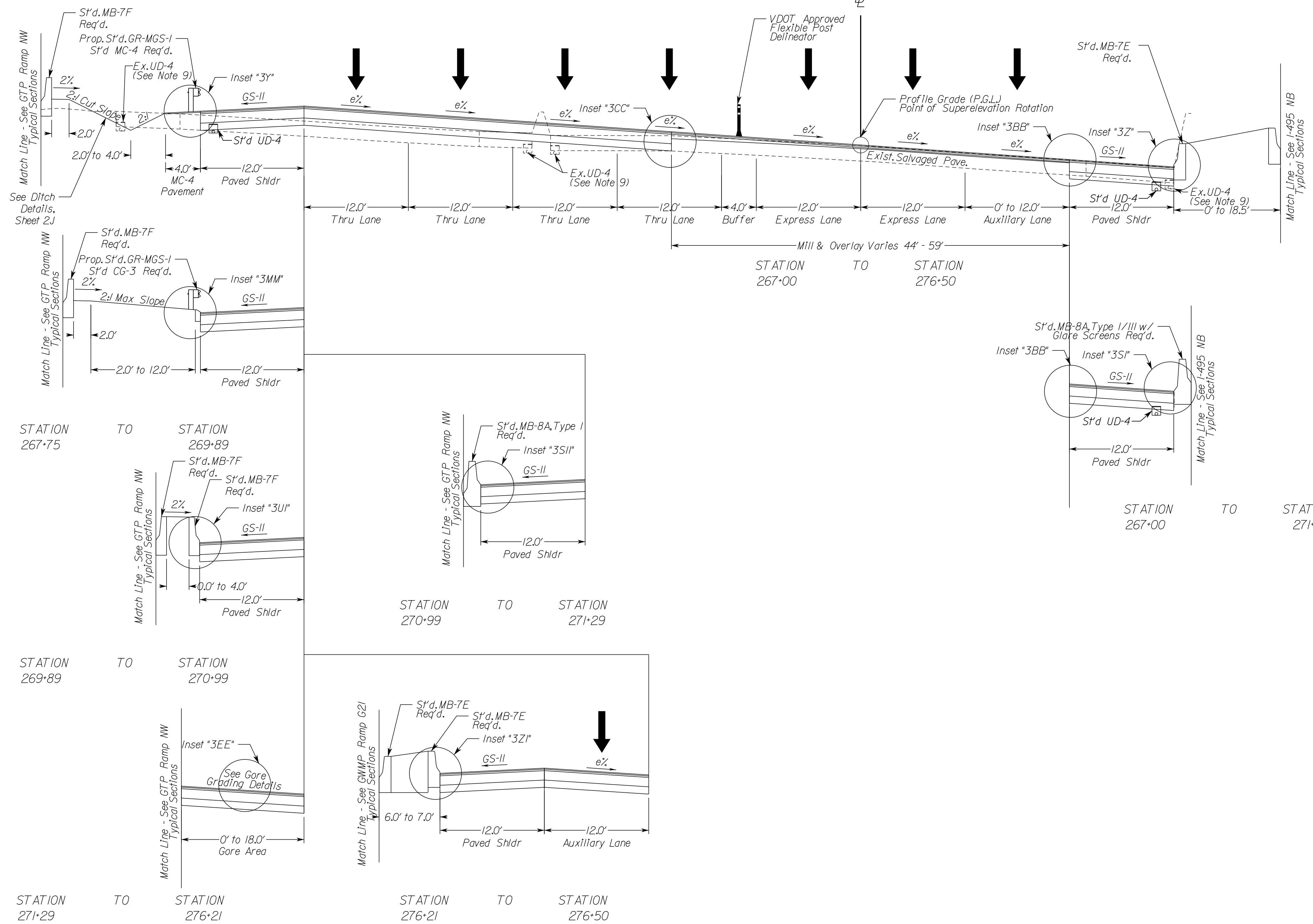
DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT

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.  $\mathcal{B}$



### 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.
- 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(9). 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.

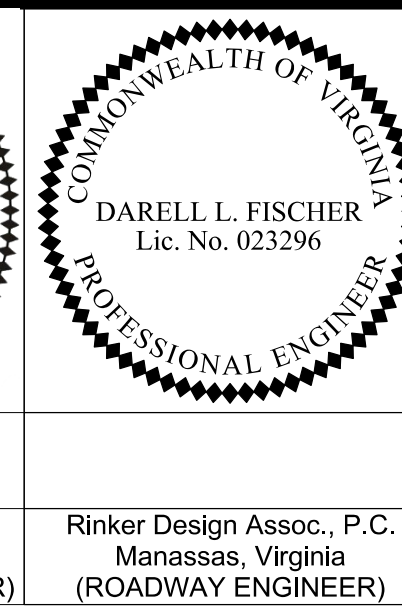
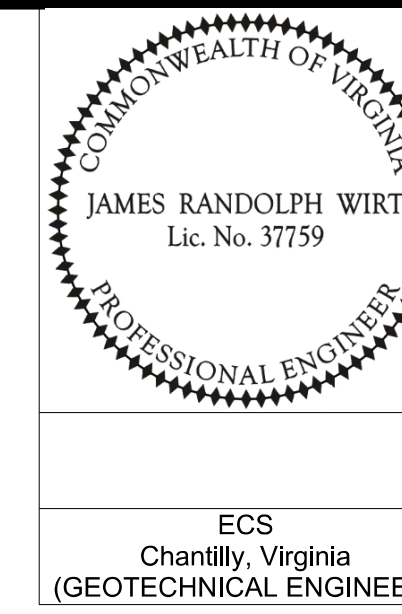
N.T.S.	VDOT PROJECT NO. 0495-029-419	SHEET NO. 2A(10) AREA 3
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APPROVED FOR CONSTRUCTION

NOVA DISTRICT



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 - Dorell 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	2B AREA 3

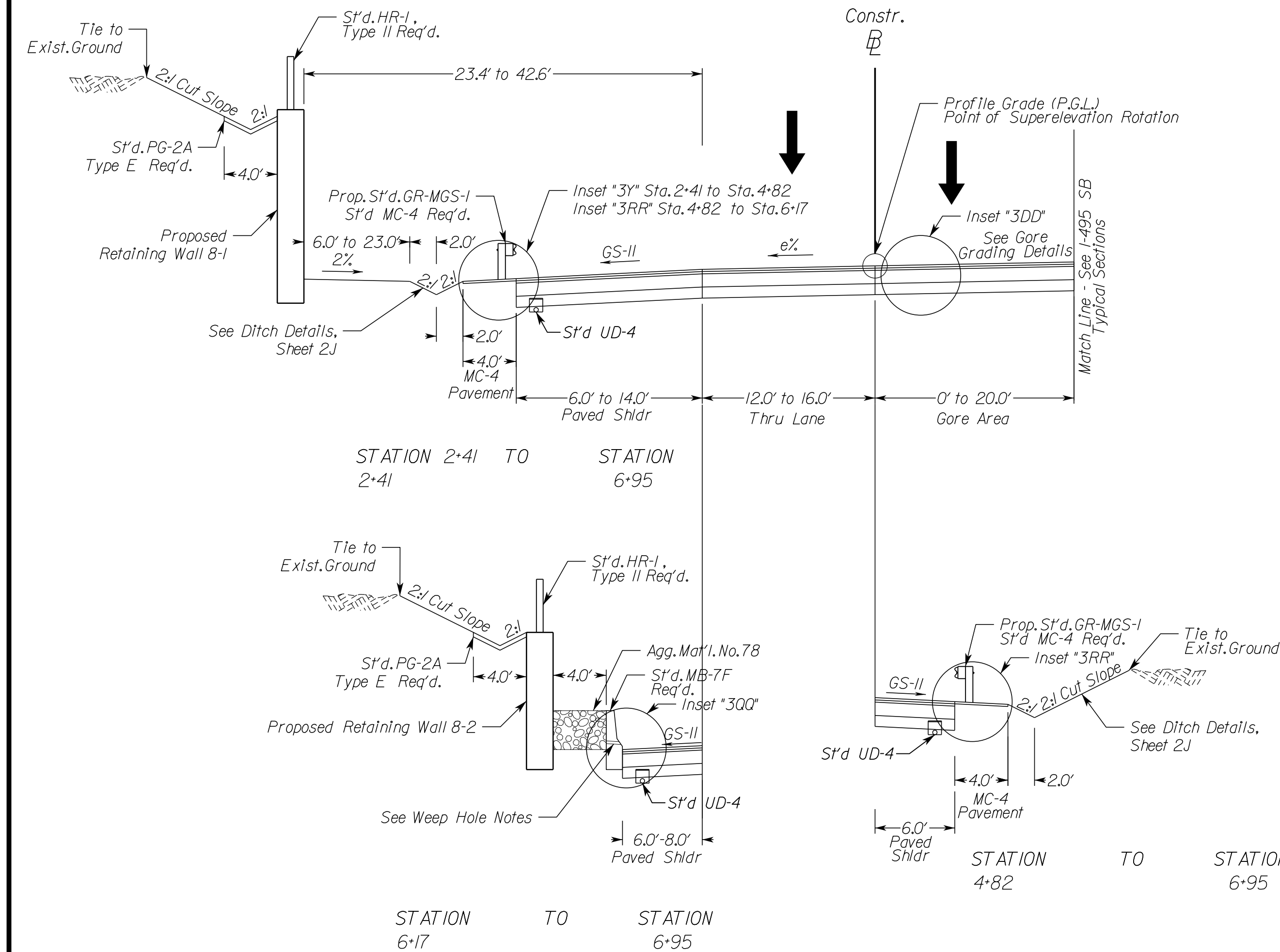
DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT

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

# Typical Sections

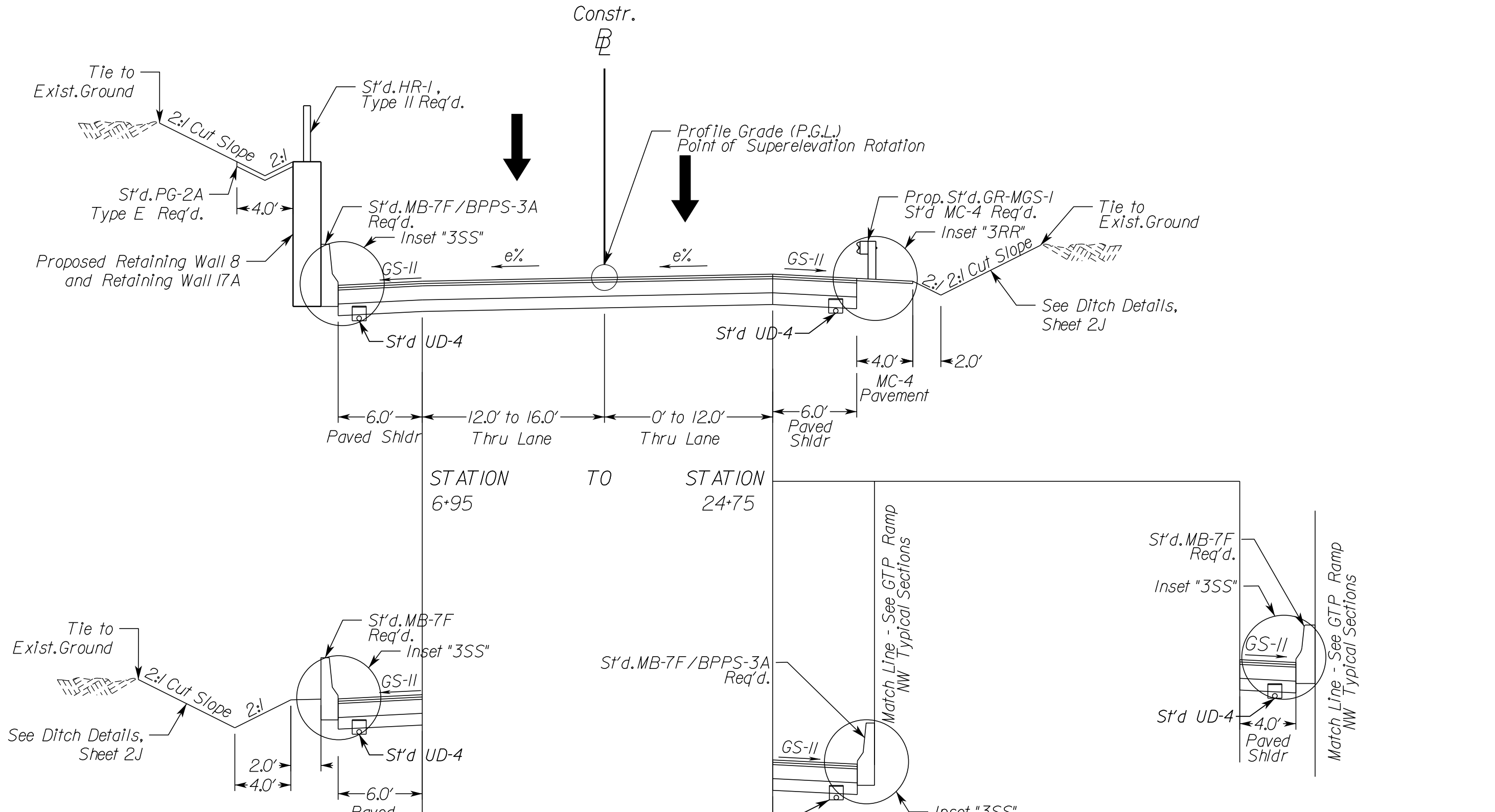
## GWMP Ramp G21 Superelevated Section, 2 Lane Interchange Ramp

Geometric Design Standard for Interchange Ramp (GS-R): V=30 MPH  
 (Not to Scale)  
 Constr.



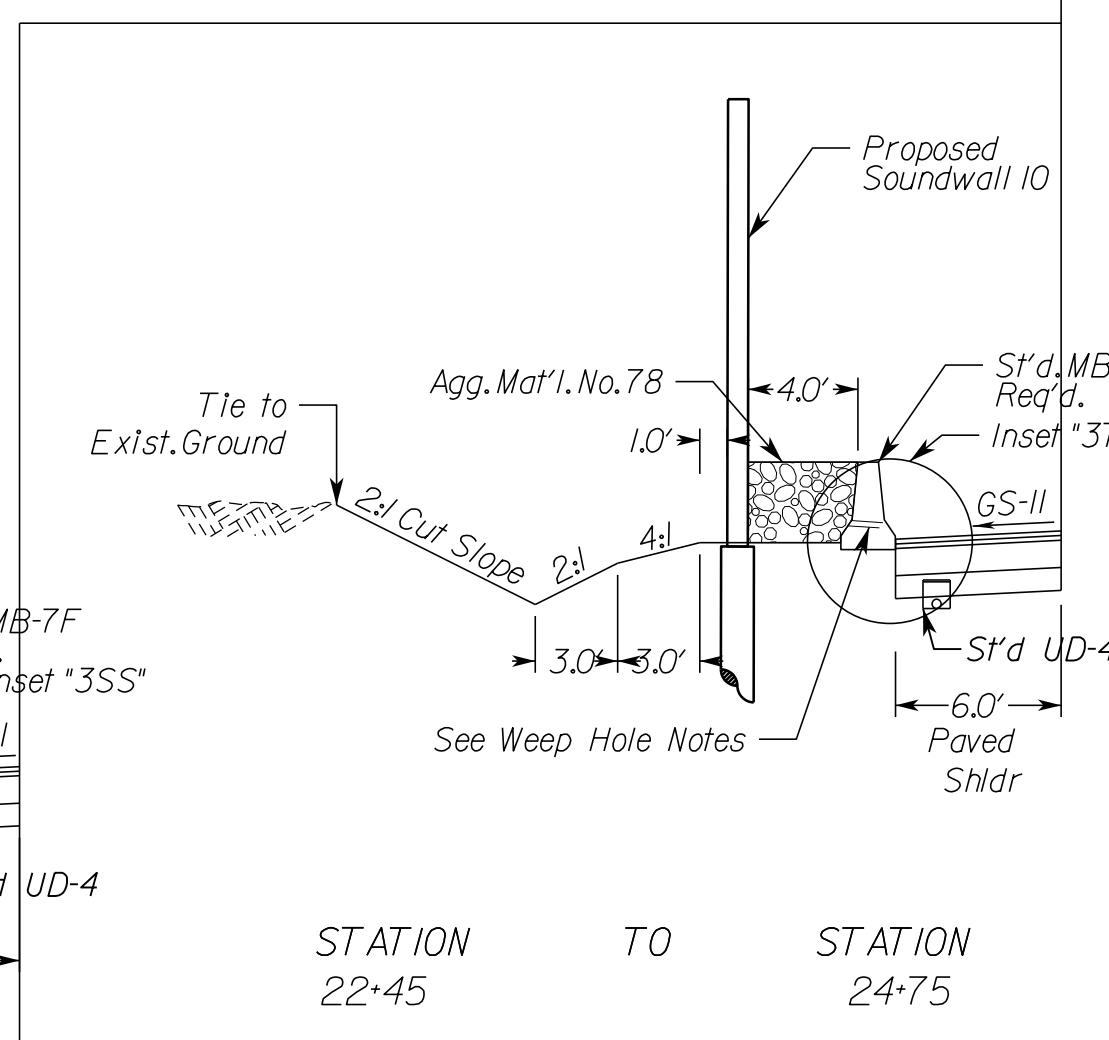
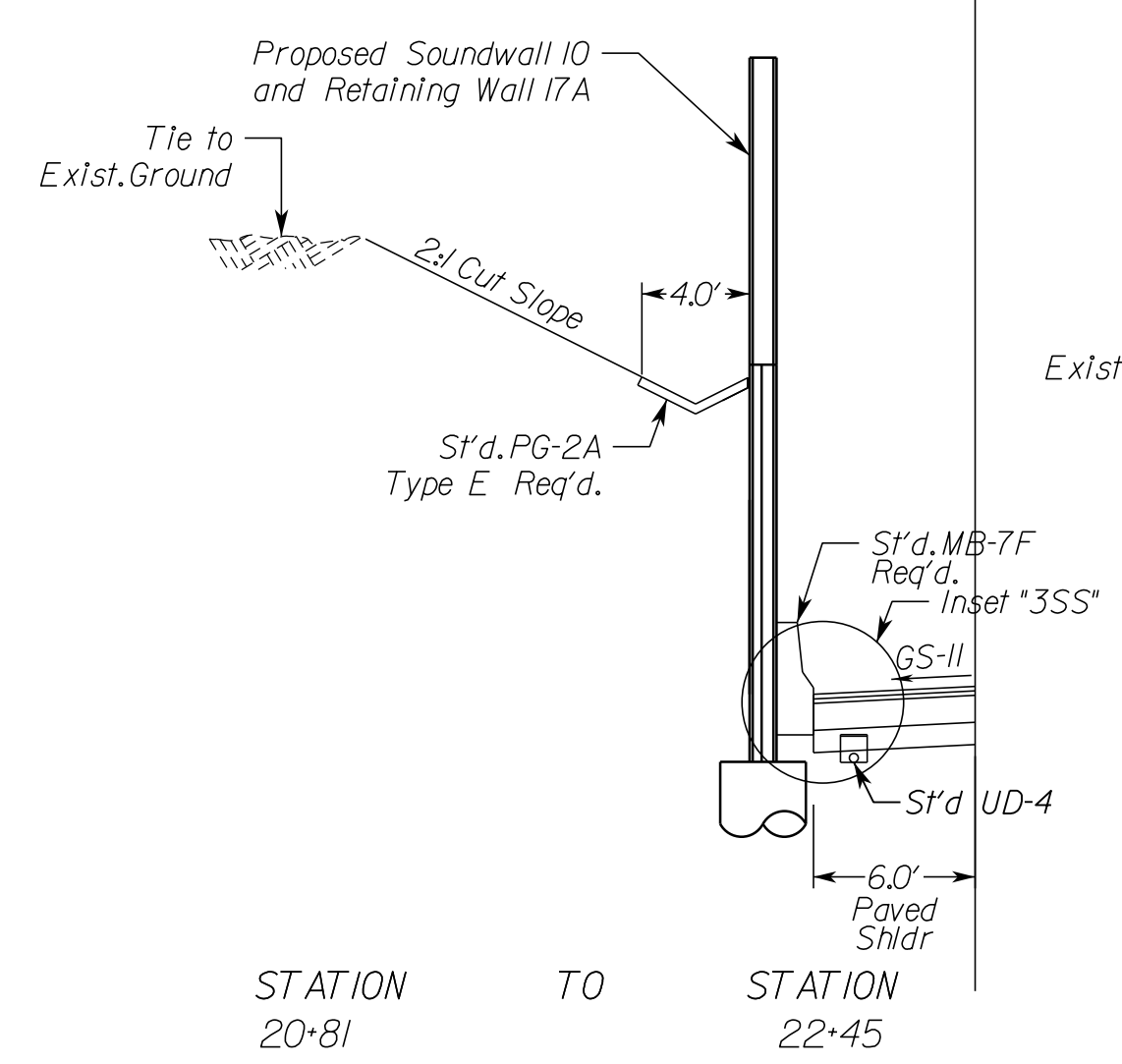
## GWMP Ramp G21 Superelevated Section, 2 Lane Interchange Ramp

Geometric Design Standard for Interchange Ramp (GS-R): V=30 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.
- 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(9). 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.



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.

N.T.S.	VDOT PROJECT NO. 0495-029-419	SHEET NO. 2B AREA 3
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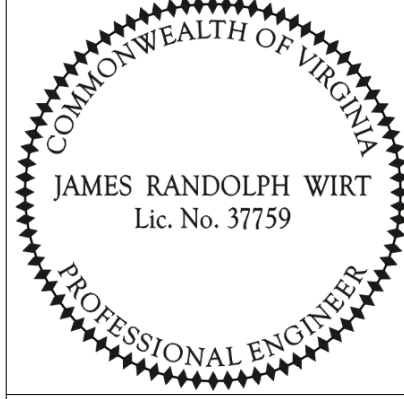

APPROVED FOR CONSTRUCTION

NOVA DISTRICT

10/16/2022



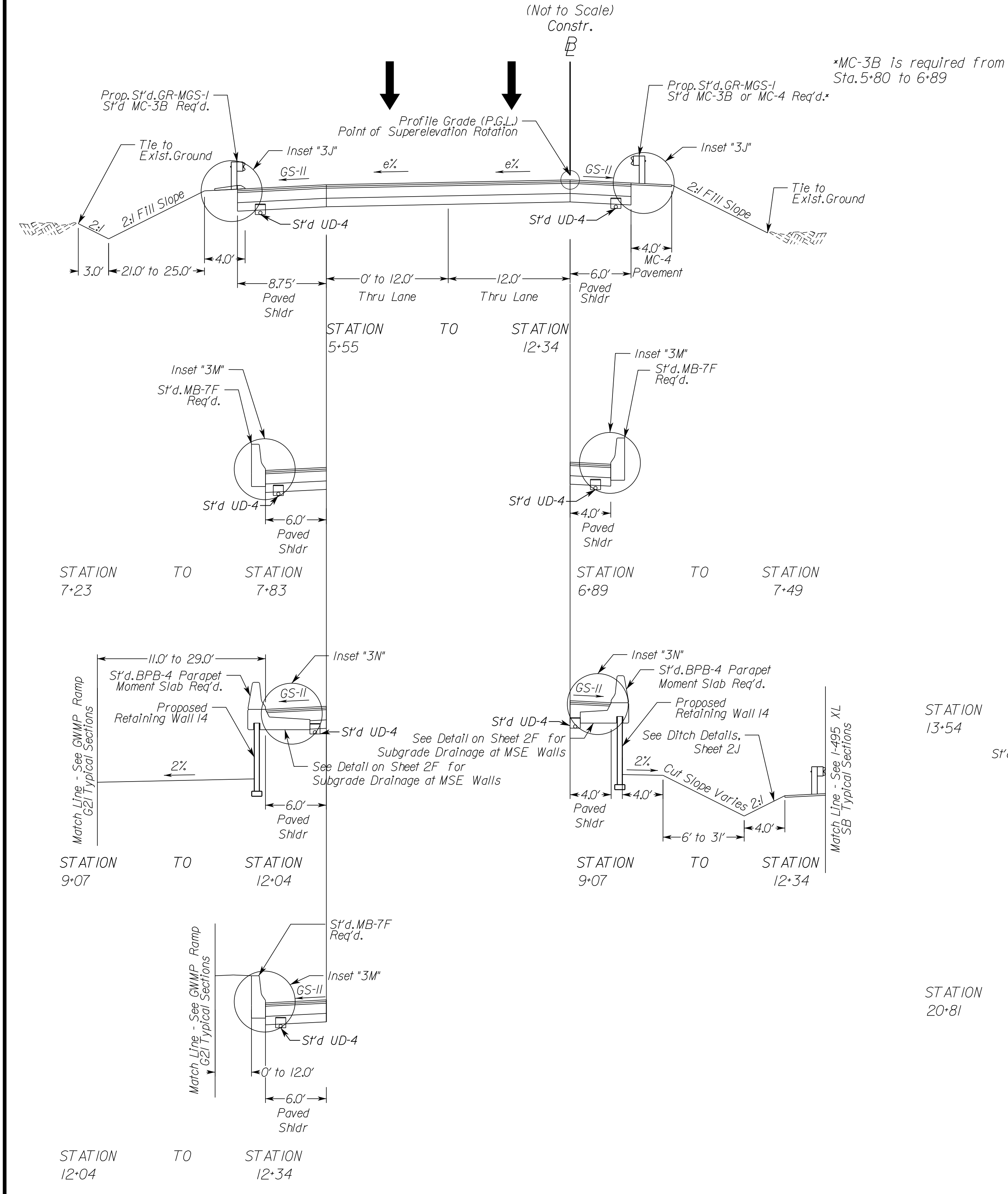
PROJECT MANAGER VDOT - Rupal Shah, PE, (703) 259-2362  
 SURVEYED BY, DATE RDA - Nicholas Kaugaulis, LS, (703) 334-0837, 12/2021  
 DESIGN BY RDA - Dorell Fischer, PE, (703) 334-0823  
 SUBSURFACE UTILITY BY, DATE Accumark - Michael Taylor, LS, (703) 635-3060, 12/2021

 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	2B(1) AREA 3

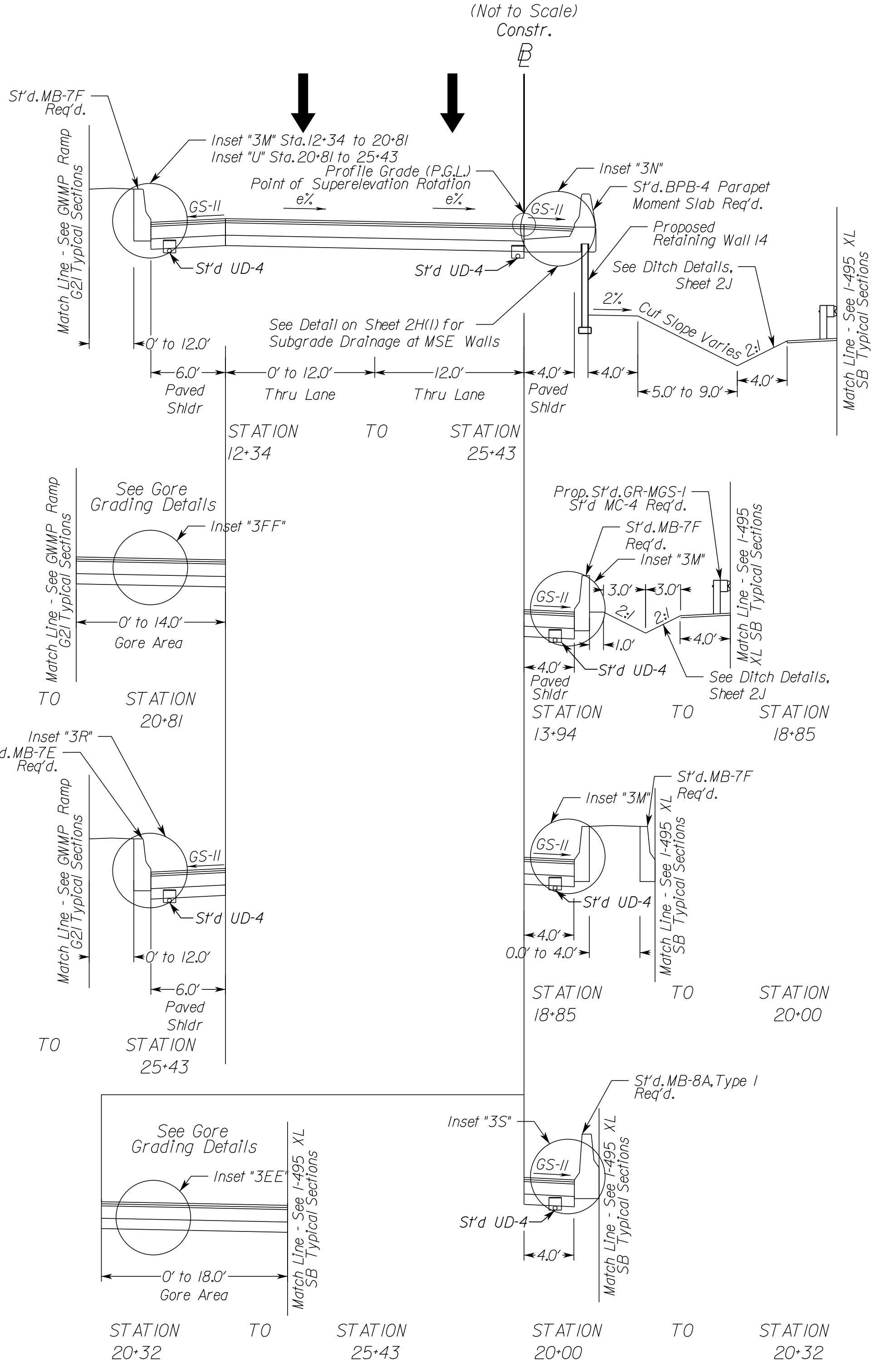
## Georgetown Pike Ramp NW Superelevated Section, 2 Lane Interchange Ramp

Geometric Design Standard for Interchange Ramp (GS-R): V=30 MPH



## Georgetown Pike Ramp NW Superelevated Section, 2 Lane Interchange Ramp

Geometric Design Standard for Interchange Ramp (GS-R): V=30 MPH



### 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.
- 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(9). 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 3
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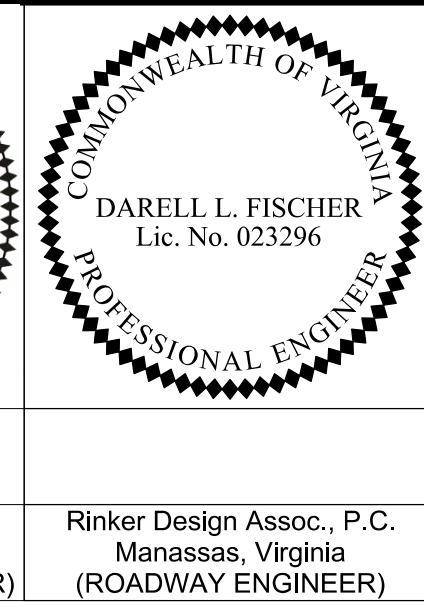
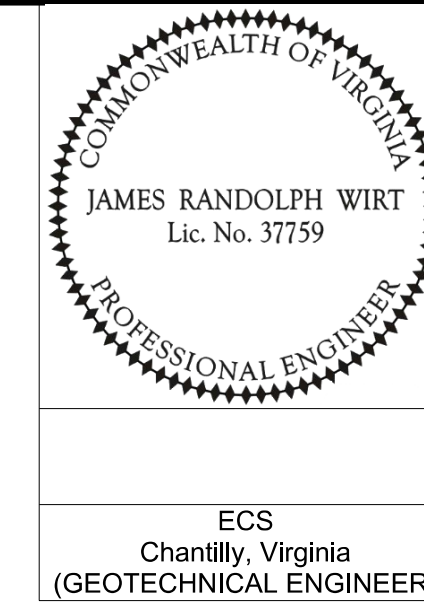
APPROVED FOR CONSTRUCTION

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

# Typical Sections



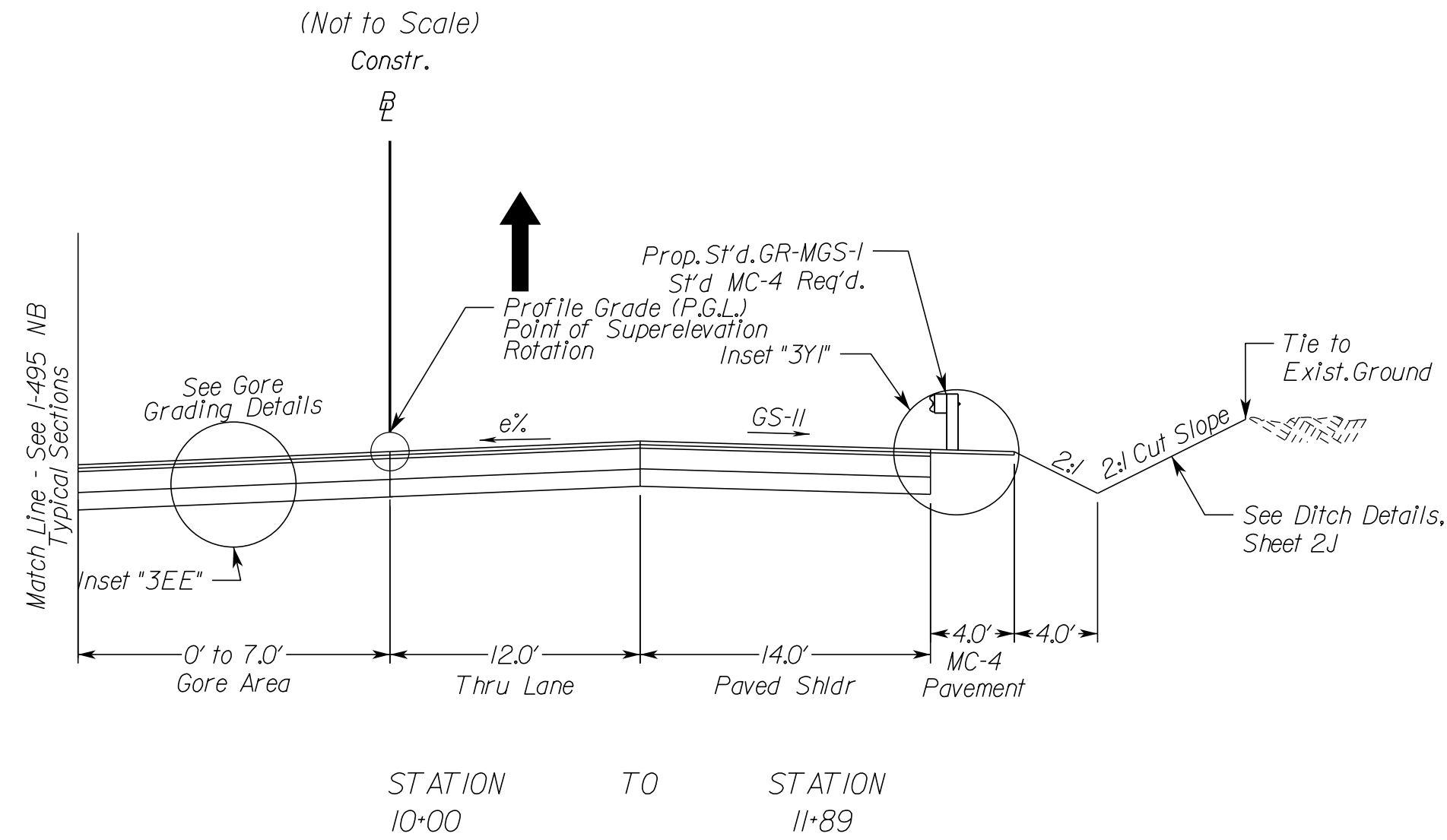
REVISED	STATE	ROUTE	STATE	VDOT PROJECT NO.	SHEET NO.
	VA	495		0495-029-419 C501 RW201	2B(2) AREA 3

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)

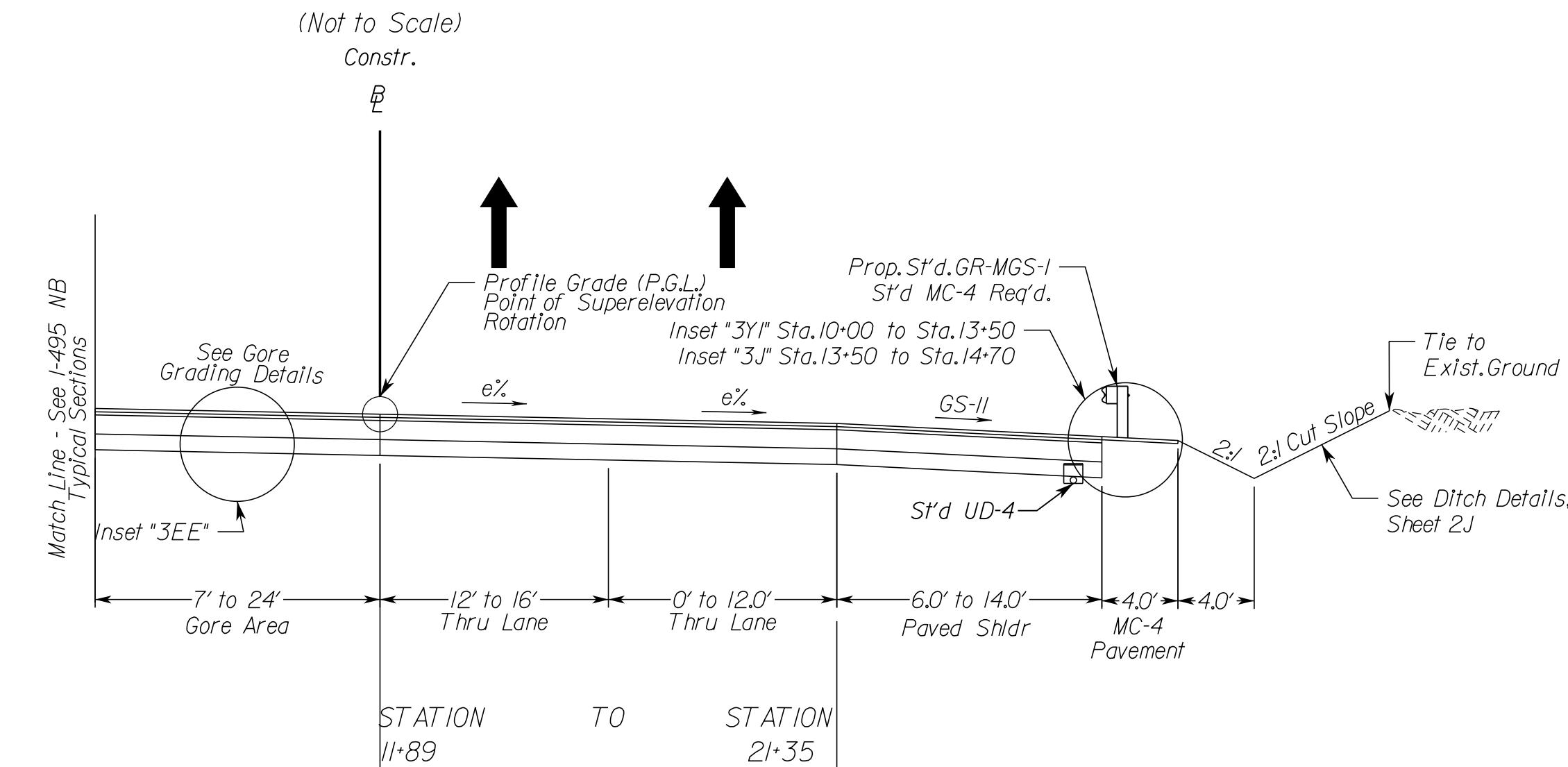
## Georgetown Pike Ramp SE Superelevated Section, Interchange Ramp

Geometric Design Standard for Interchange Ramp (GS-R): V=30 MPH



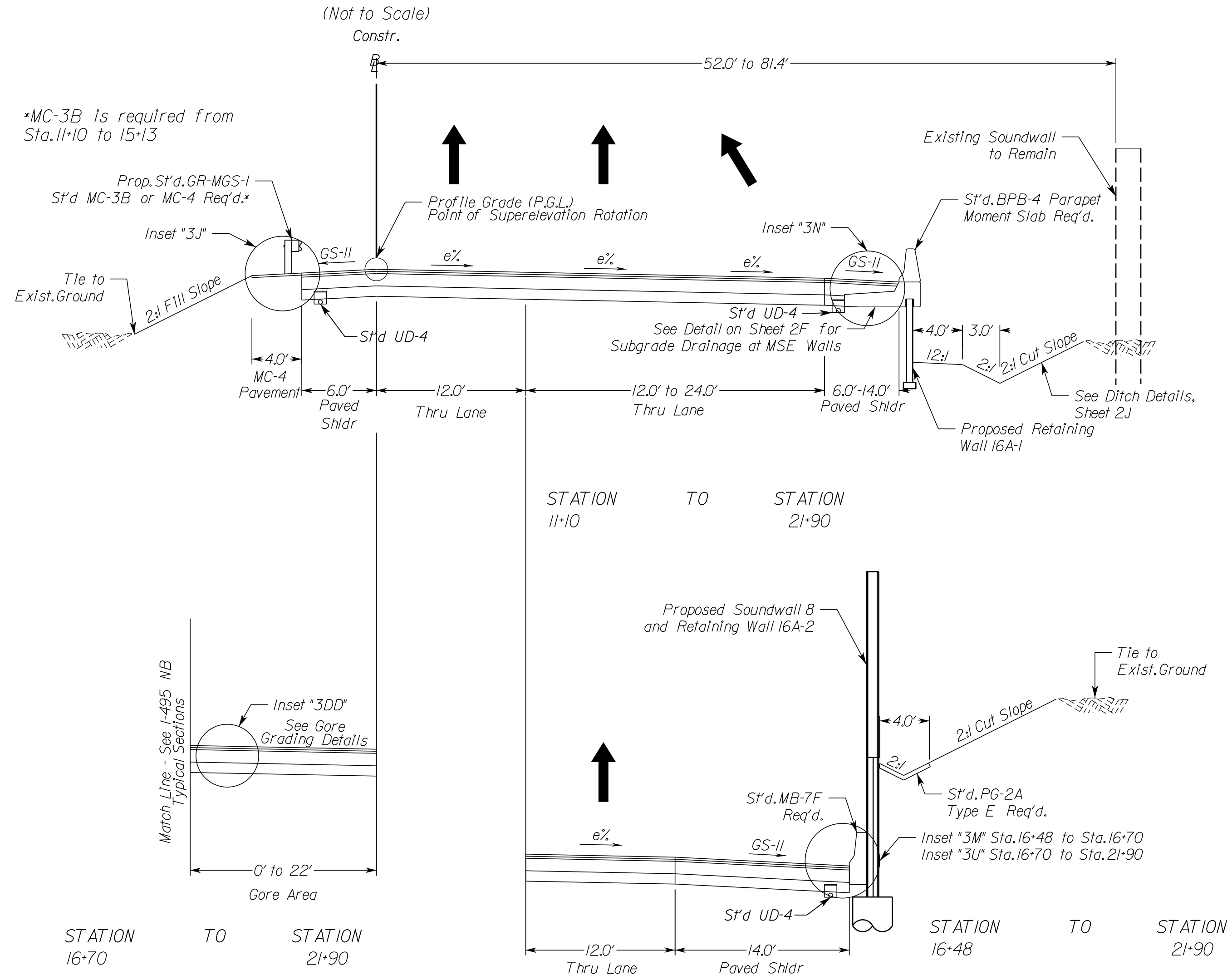
## Georgetown Pike Ramp SE Superelevated Section, 2 Lane Interchange Ramp

Geometric Design Standard for Interchange Ramp (GS-R): V=30 MPH



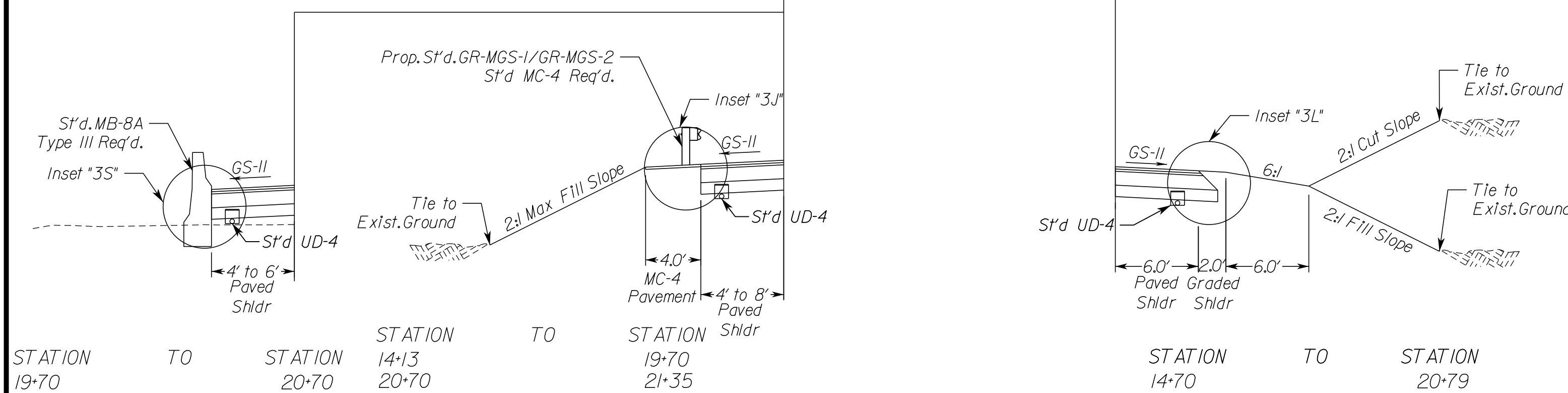
## Georgetown Pike Ramp NE Superelevated Section, 2 Lane Interchange Ramp

Geometric Design Standard for Interchange Ramp (GS-R): V=30 MPH



### 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.
- 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(9). 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 3
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APPROVED FOR CONSTRUCTION

NOVA DISTRICT

10/16/2022



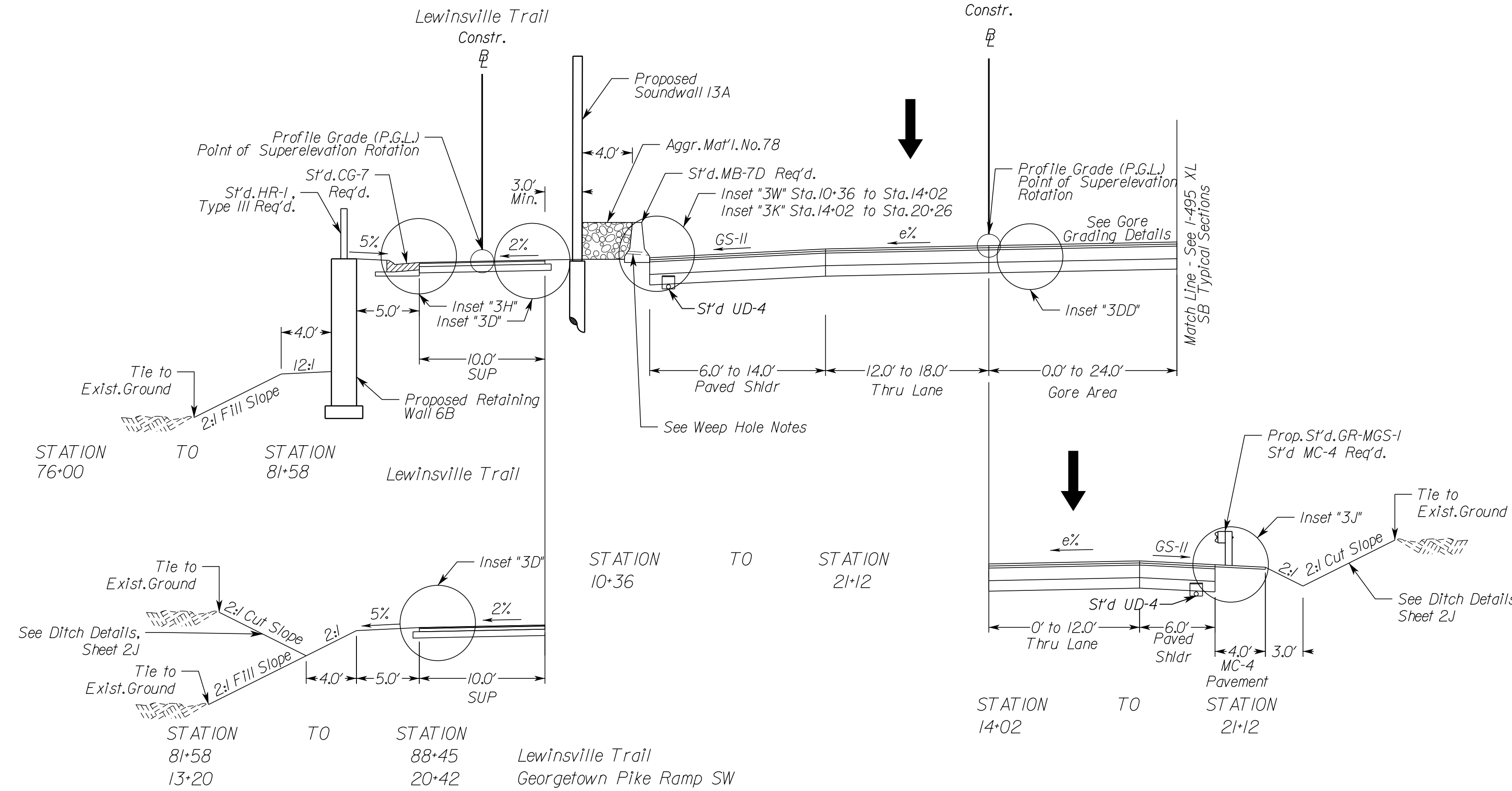
PROJECT MANAGER VDOT - Rupal Shah, P.E. (703) 259-2362  
 SURVEYED BY, DATE RDA - Nicholas Kaugaulis, LS (703) 334-0837, 12/2021  
 DESIGN BY RDA - Darrell Fischer, P.E. (703) 334-0823  
 SUBSURFACE UTILITY BY, DATE Accumark - Michael Taylor, LS (703) 635-3060, 12/2021

# Typical Sections

## Georgetown Pike Ramp SW Superelevated Section, 2 Lane Interchange Ramp

Geometric Design Standard for Interchange Ramp (GS-R); V=30 MPH

(Not to Scale)



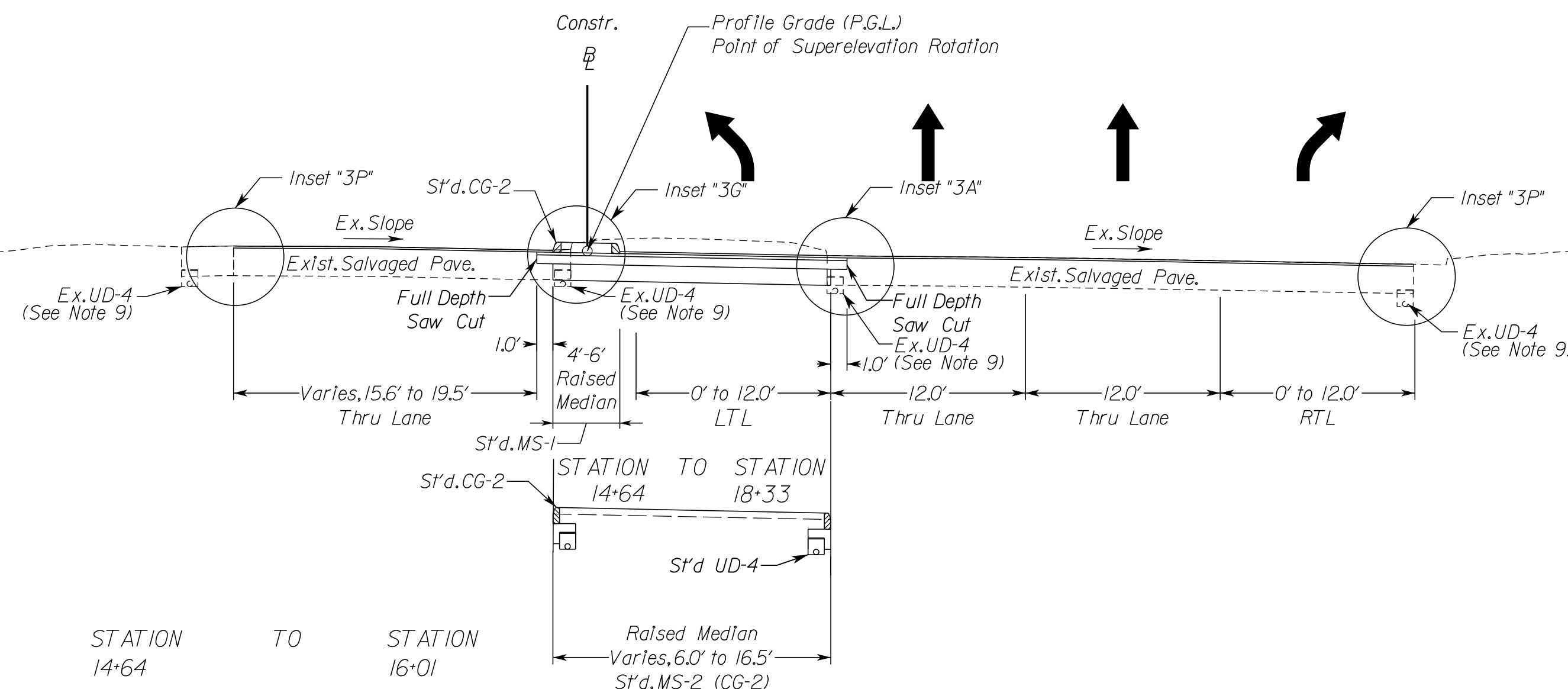
### TYPICAL SECTION NOTES

- 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.
- 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(9). 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.

## Georgetown Pike, Rte. 193 Superelevated Section, 4 Lane Street with Curb & Gutter

Geometric Design Standard for Urban Minor Arterial System (GS-6); V=40 MPH

(Not to Scale)



**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.

NOVA DISTRICT

10/16/2022

APPROVED FOR CONSTRUCTION

REVISED	STATE	ROUTE	STATE	VDOT PROJECT NO.	SHEET NO.
	VA.	495		0495-029-419 C501 RW201	2B(3) AREA 3

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

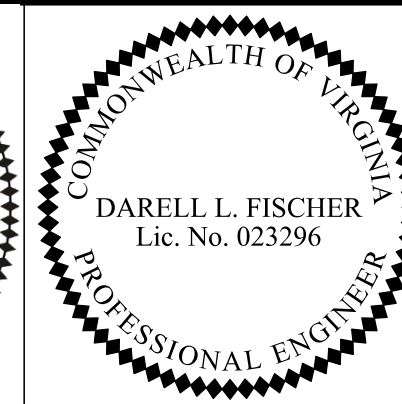
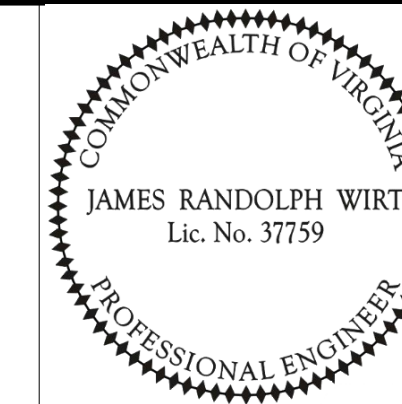
ECS  
 Chantilly, Virginia  
 (GEOTECHNICAL ENGINEER)

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

N.T.S.	VDOT PROJECT NO. 0495-029-419	SHEET NO. 2B(3) AREA 3
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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



REVISED	STATE	ROUTE	STATE	VDOT PROJECT NO.	SHEET NO.
	VA	495		0495-029-419 C501 RW201	2B(4) AREA 3

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

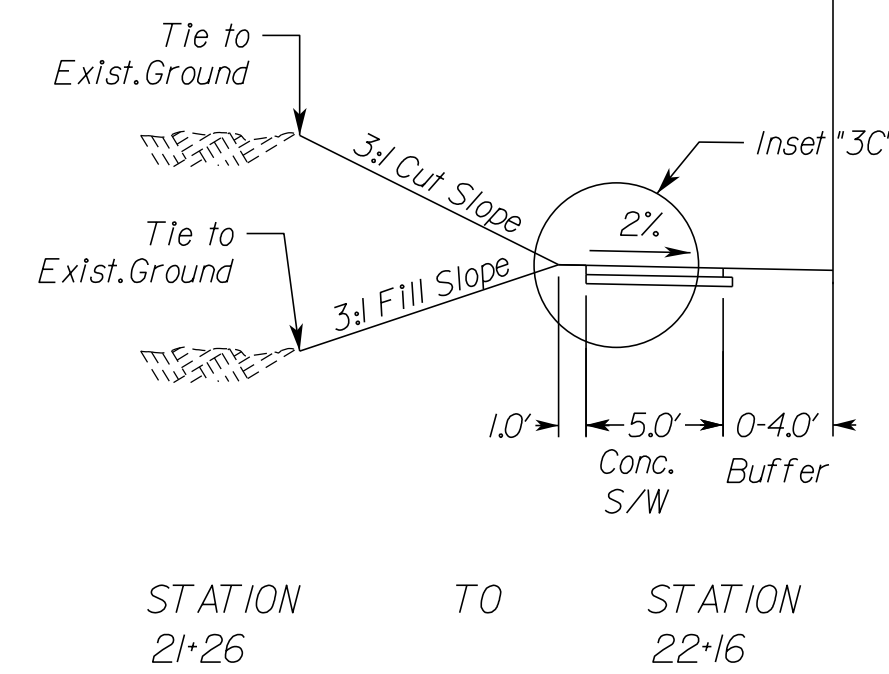
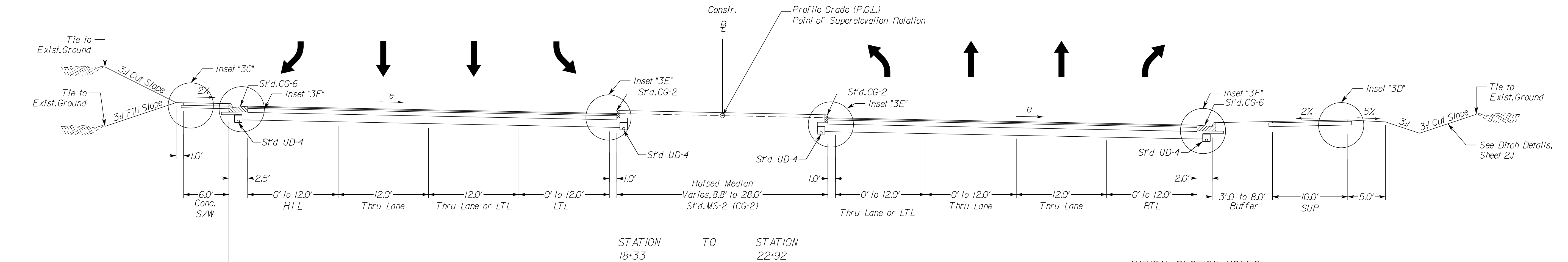
ECS  
Chantilly, Virginia  
(GEOTECHNICAL ENGINEER)

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

# Typical Sections

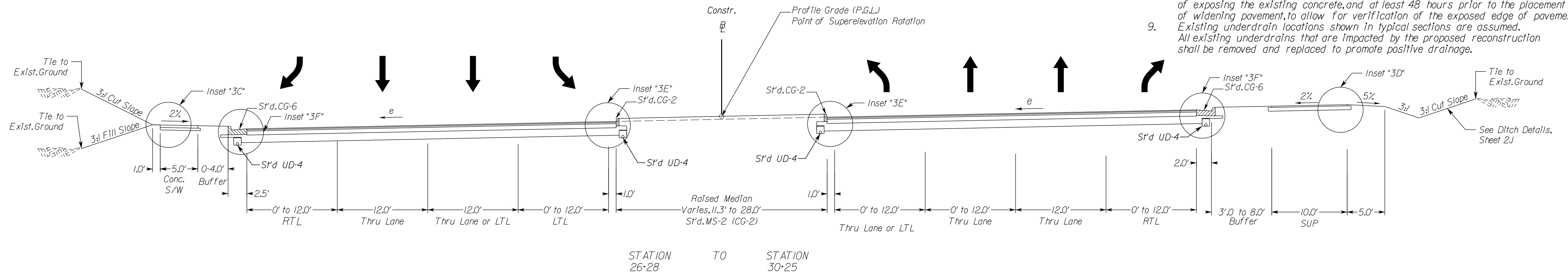
## Georgetown Pike, Rte. 193 Superelevated Section, 4 Lane Street with Curb & Gutter

Geometric Design Standard for Urban Minor Arterial System (GS-6): V=40 MPH  
(Not to Scale)



## Georgetown Pike, Rte. 193 Superelevated Section, 4 Lane Street with Curb & Gutter

Geometric Design Standard for Urban Minor Arterial System (GS-6): V=40 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.
- 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 layer, 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(9). 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

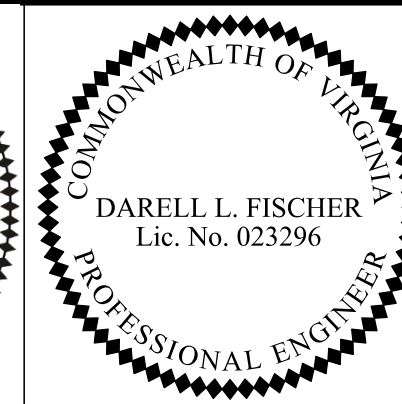
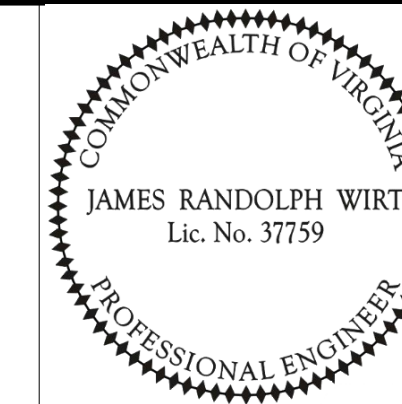
10/16/2022

N.T.S.	VDOT PROJECT NO. 0495-029-419	SHEET NO. 2B(4) AREA 3
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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 Accurack - 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(5) AREA 3

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)

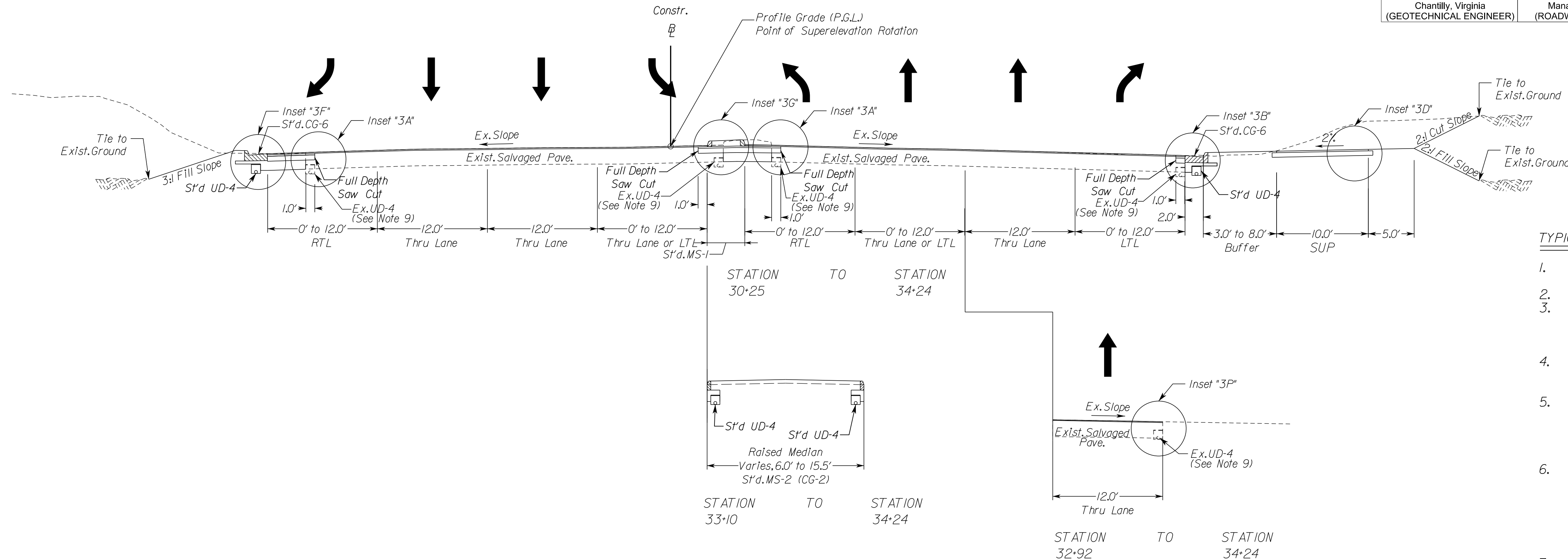
Rinker Design Assoc., P.C.  
Manassas, Virginia  
(ROADWAY ENGINEER)

# Typical Sections

## Georgetown Pike, Rte. 193 Normal Crown Section, 4 Lane Street with Curb & Gutter

Geometric Design Standard for Urban Minor Arterial System (GS-6): V=40 MPH

(Not to Scale)



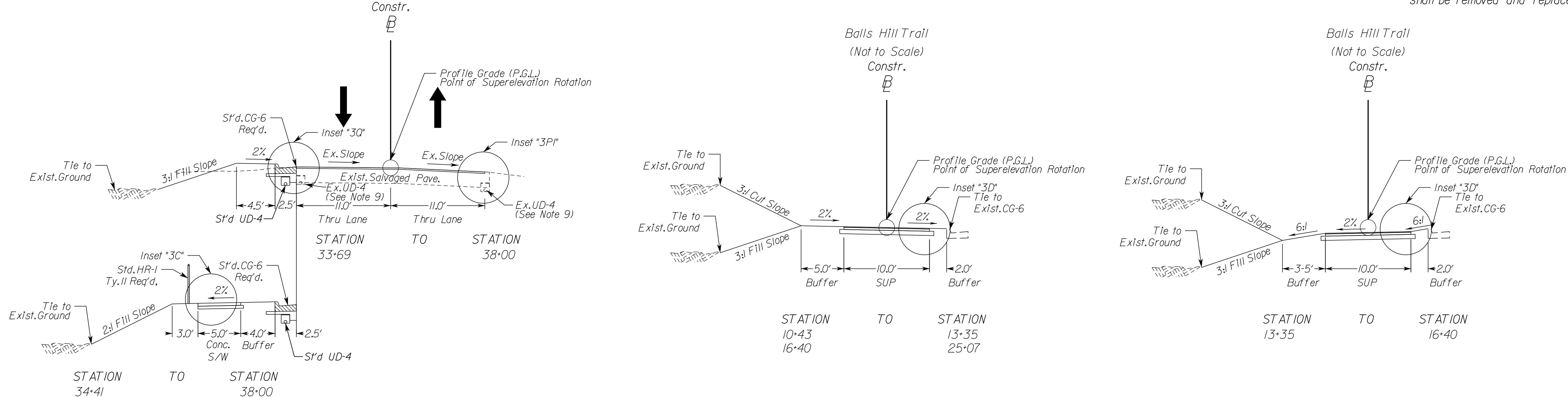
### TYPICAL SECTION NOTES

- 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.
- 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(9). 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.

## Balls Hill Road 2 Lane Street with Curb and Gutter

Geometric Design Standard for Urban Local Road (GS-8): V=25 MPH

(Not to Scale)



NOVA DISTRICT

10/16/2022

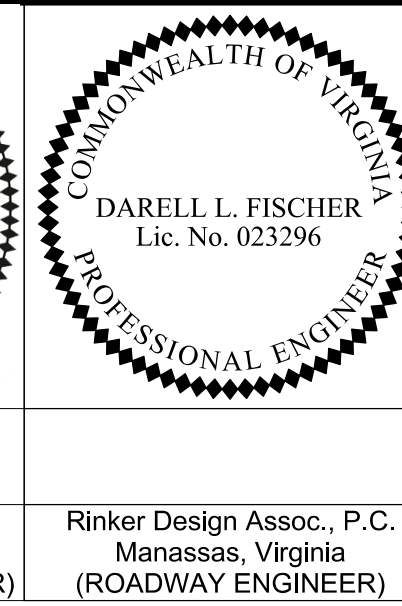
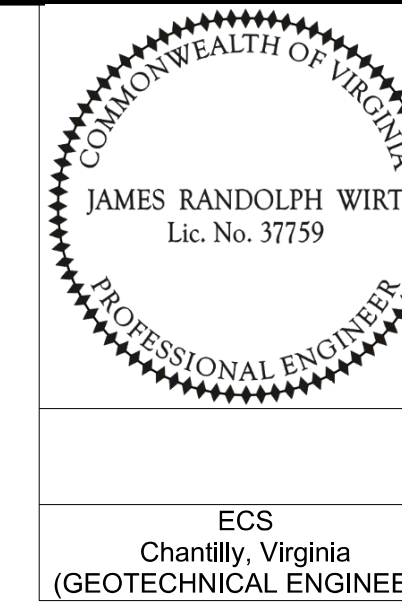
N.T.S.	VDOT PROJECT NO. 0495-029-419	SHEET NO. 2B(5) AREA 3
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APPROVED FOR CONSTRUCTION



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\_Accumark - Michael Taylor, LS (703) 635-3060, 12/2021

# Typical Section Details

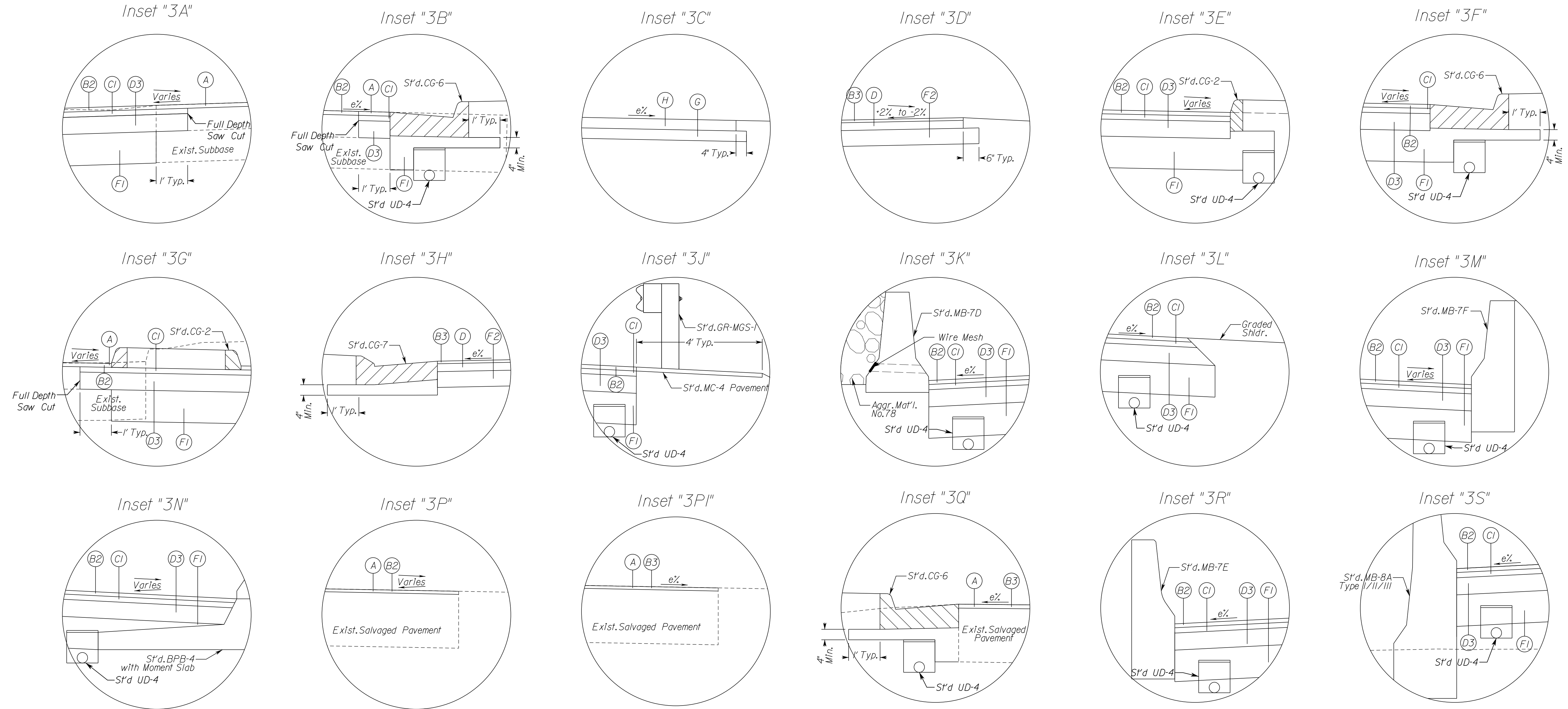


REVISED	STATE	ROUTE	STATE	VDOT PROJECT NO.	SHEET NO.
	VA	495		0495-029-419 C501 RW201	2B(6) AREA 3

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**

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- (A1) Mill Existing Asphalt Surface - 2 Inch Depth
- (A2) Mill Existing Asphalt Surface - 4 Inch Depth
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- (B2) Asphalt Concrete Surface Course, Type SM-9.5D - 1.5 Inch Depth
- (B3) Asphalt Concrete Surface Course, Type SM-9.5A - 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
- (D) Asphalt Concrete Base Course, Type IM-19.0A - 3 Inch Depth
- (D1) Asphalt Concrete Base Course, Type BM-25.0D-0.4 High Modulus, High Binder (PG64H-22) - 13 Inch Depth
- (D2) Asphalt Concrete Base Course, Type BM-25.0D-0.4 High Modulus, High Binder (PG64H-22) - Min. 2.5 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
- (E) Cement Treated Aggr. Base Mat'l., Type I - 10 Inch Depth
- (F) Aggr. Base Mat'l., Type I, Size No. 21B - 10 Inch Min. Depth, connected to proposed edge drain beneath outside edge of paved shoulder or beneath curb and gutter
- (F1) Aggr. Base Mat'l., Type I, Size No. 21B - 12 Inch Depth, connected to proposed edge drain beneath outside edge of paved shoulder or beneath curb and gutter
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- (F4) Asphalt Concrete Base Course, Type BM25.0D-0.4 High Modulus Variable Depth for Build-Up, Min 2.5 Inch Depth. (See Detail Sheet 2B(6)).
- (G) Aggr. Base Mat'l., Type I, Size No. 21A or 21B - 4 Inch Depth
- (H) Hydraulic Cement Concrete - 4 Inch Depth

N.T.S.	VDOT PROJECT NO. 0495-029-419	SHEET NO. 2B(6) AREA 3
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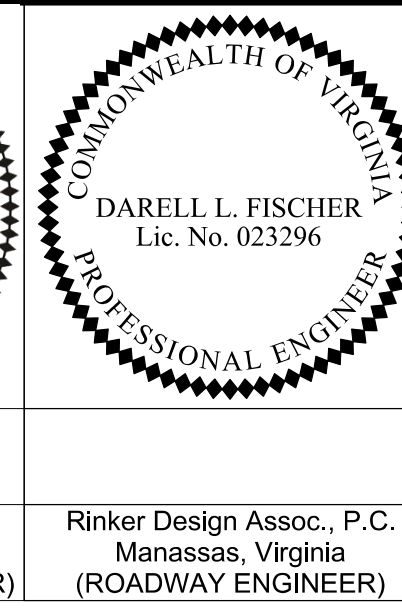
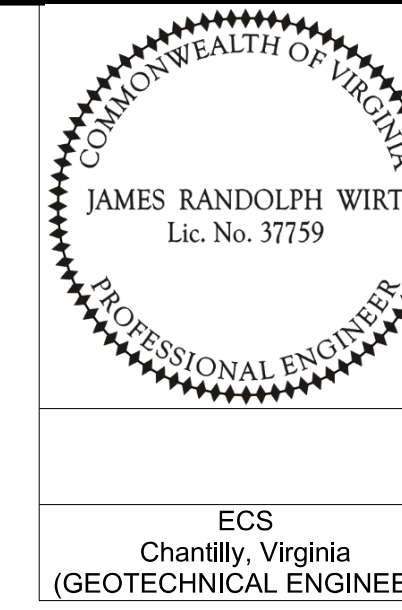
APPROVED FOR CONSTRUCTION

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  
 Dewberry - Ron Jakomilich, P.E. (703) 849-0651  
 SUBSURFACE UTILITY BY, DATE\_Accumark - Michael Taylor, LS (703) 635-3060, 12/2021

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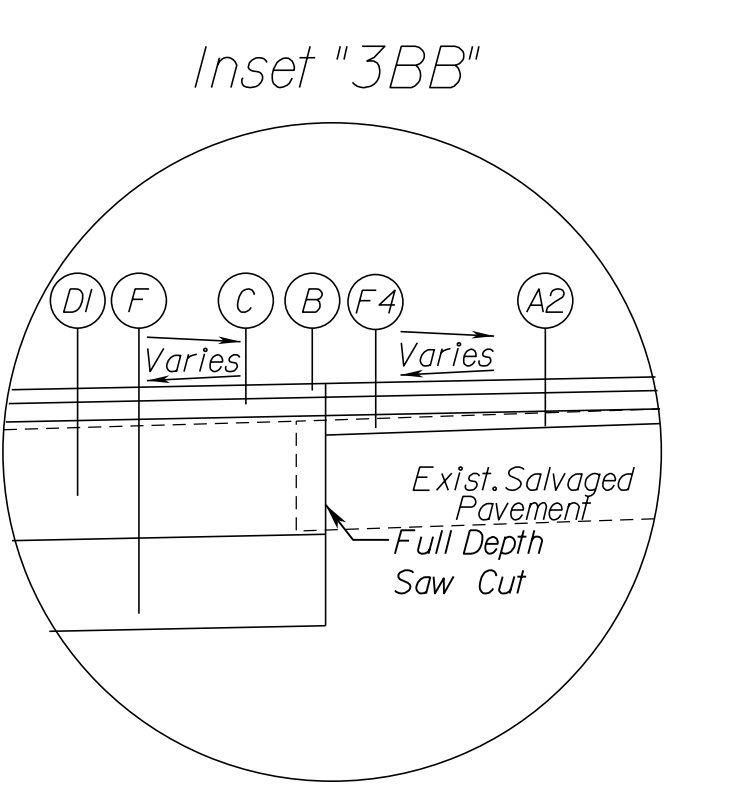
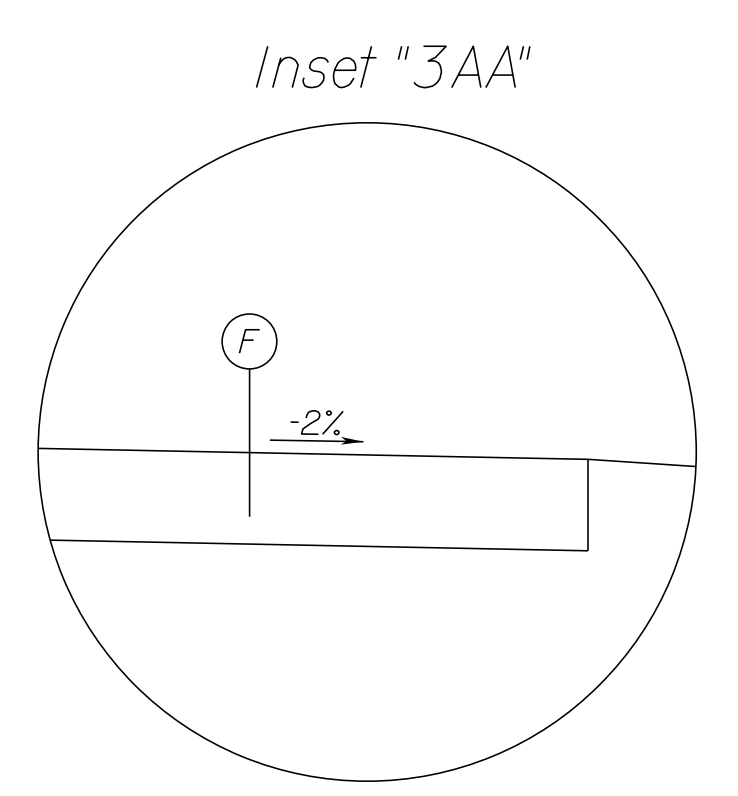
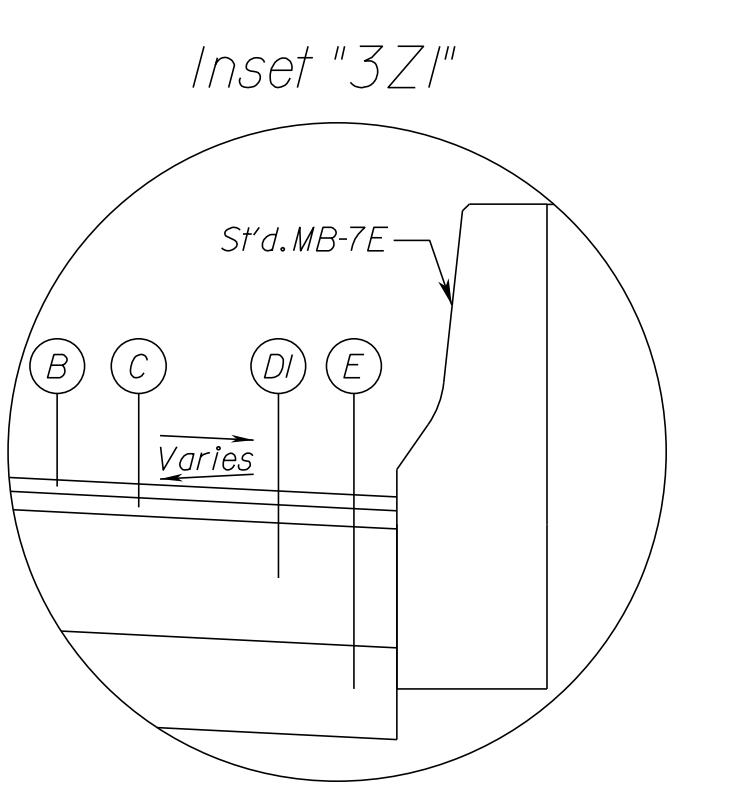
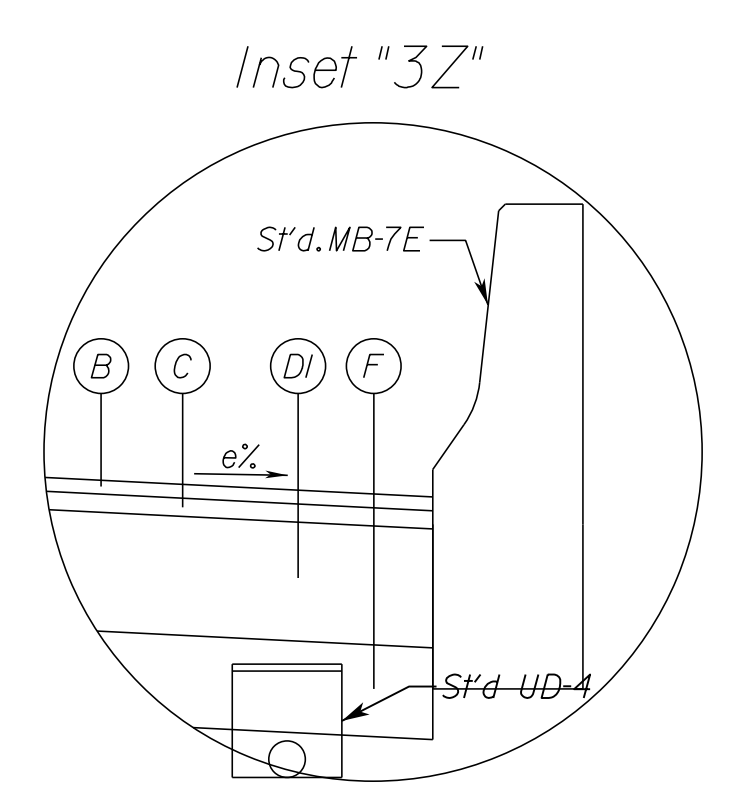
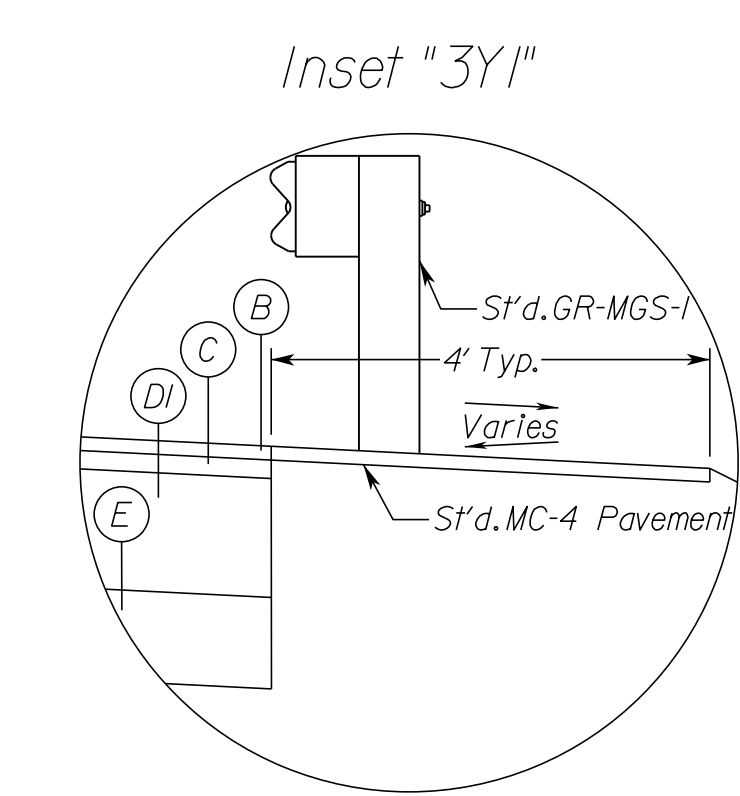
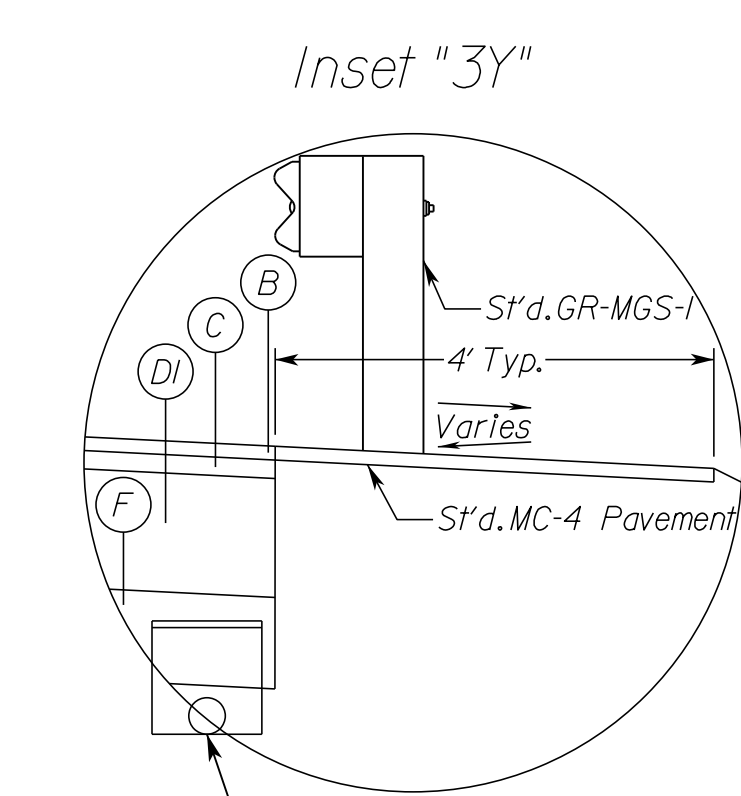
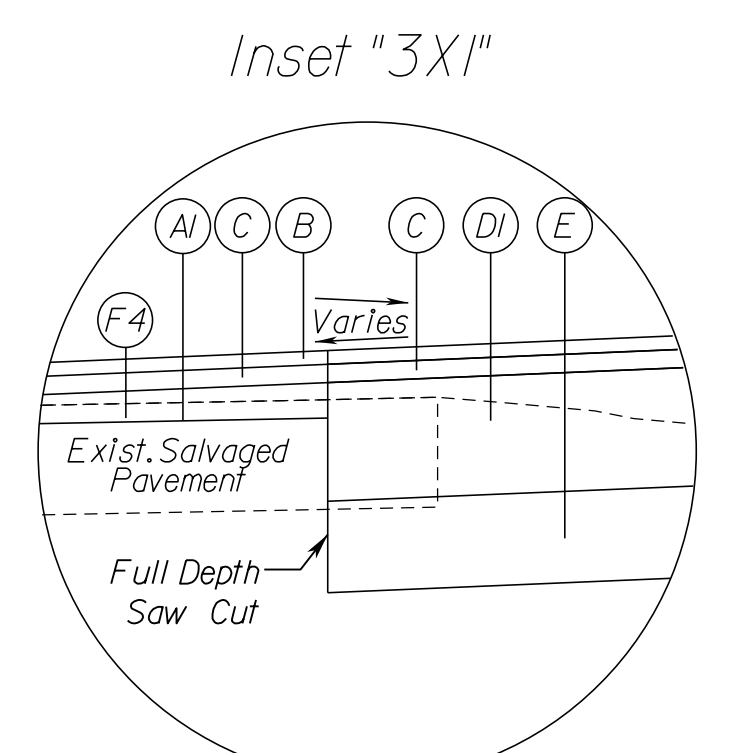
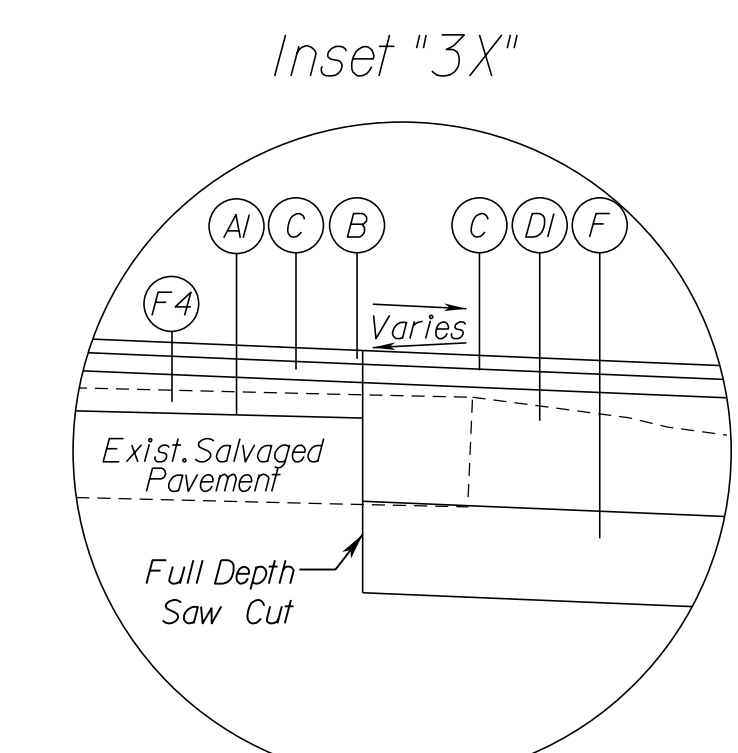
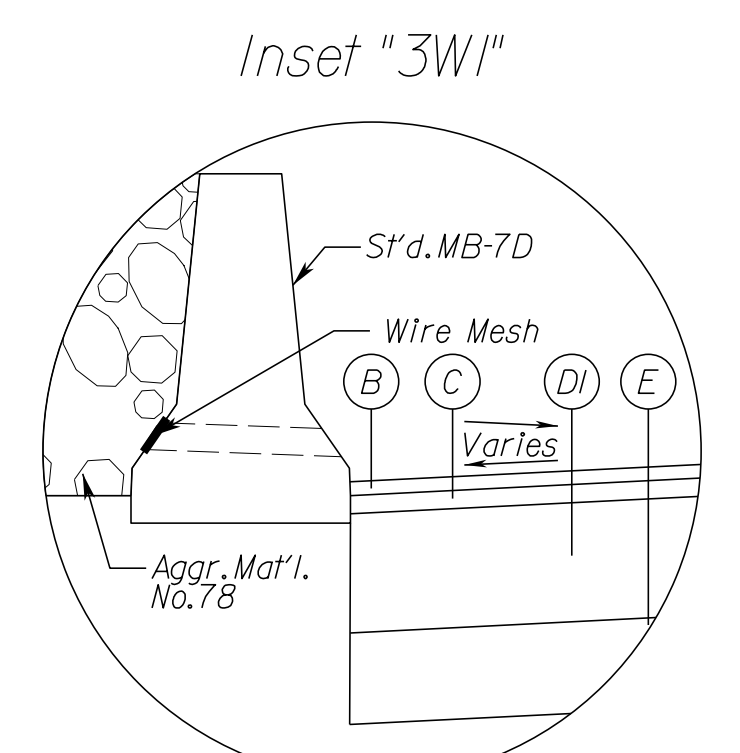
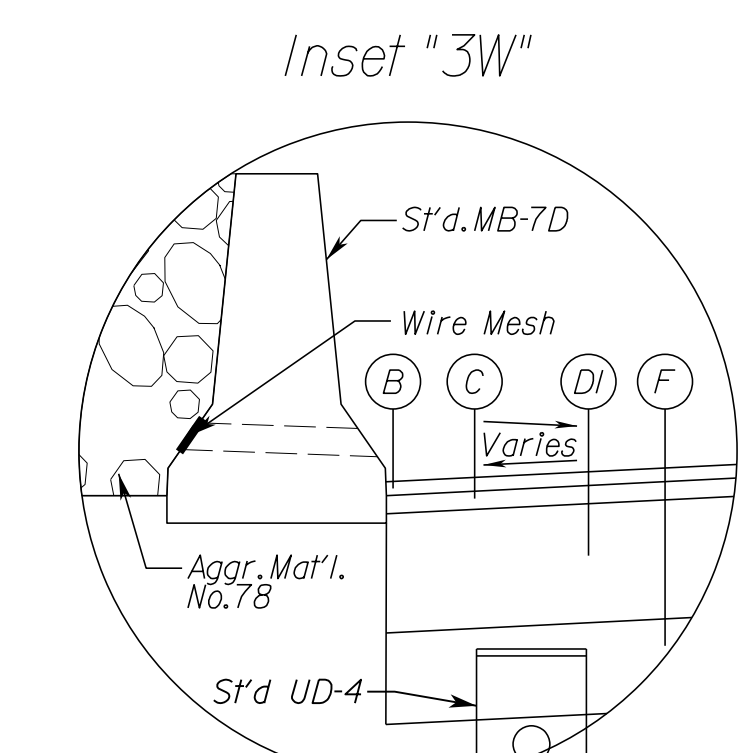
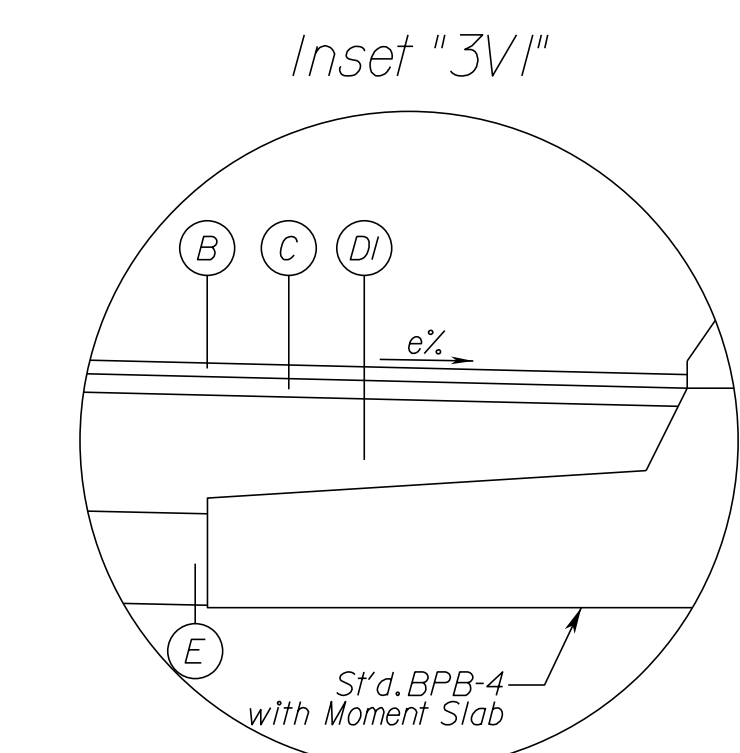
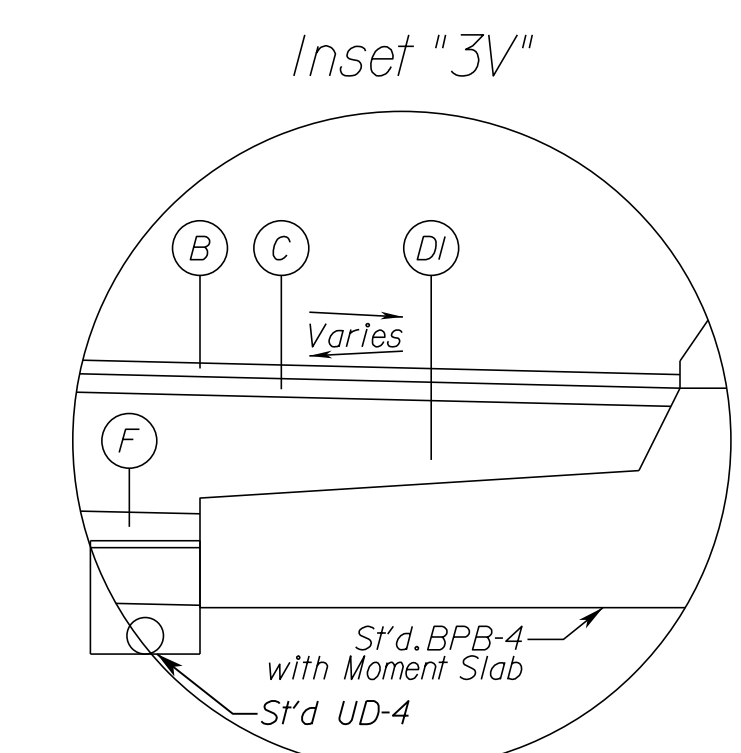
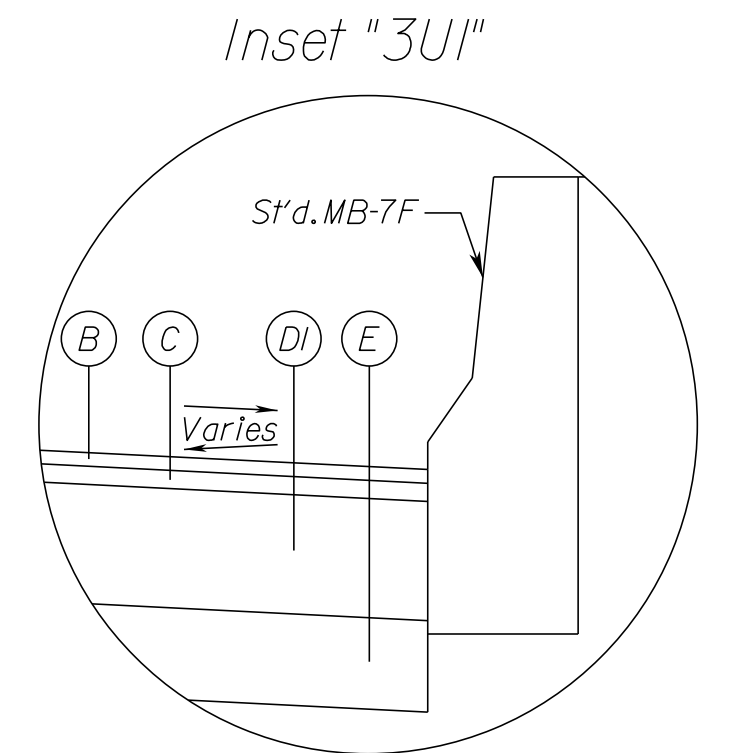
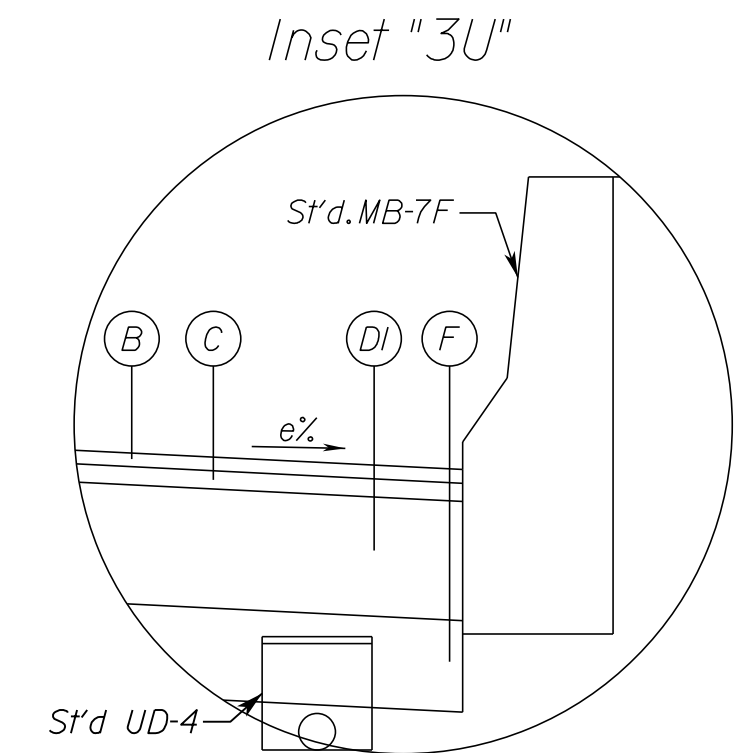
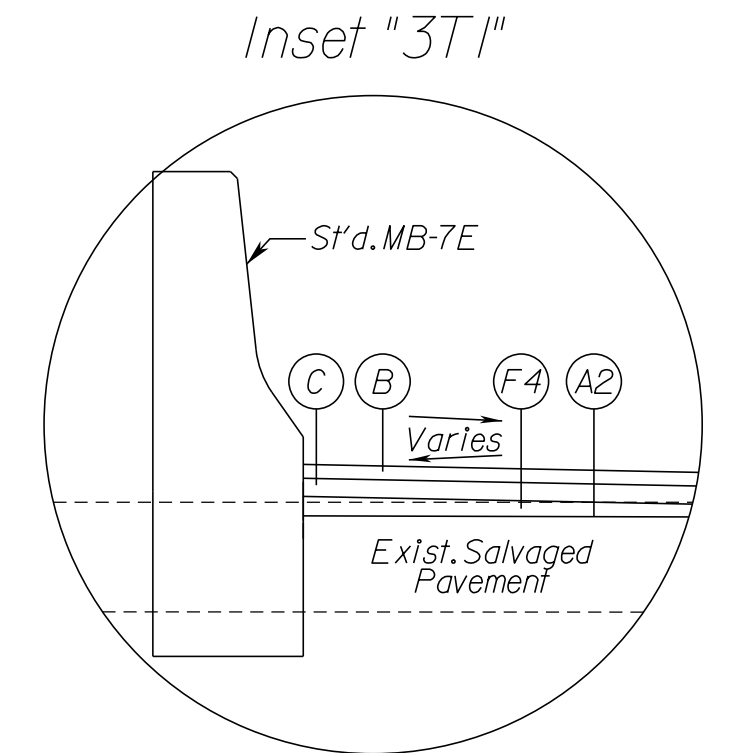
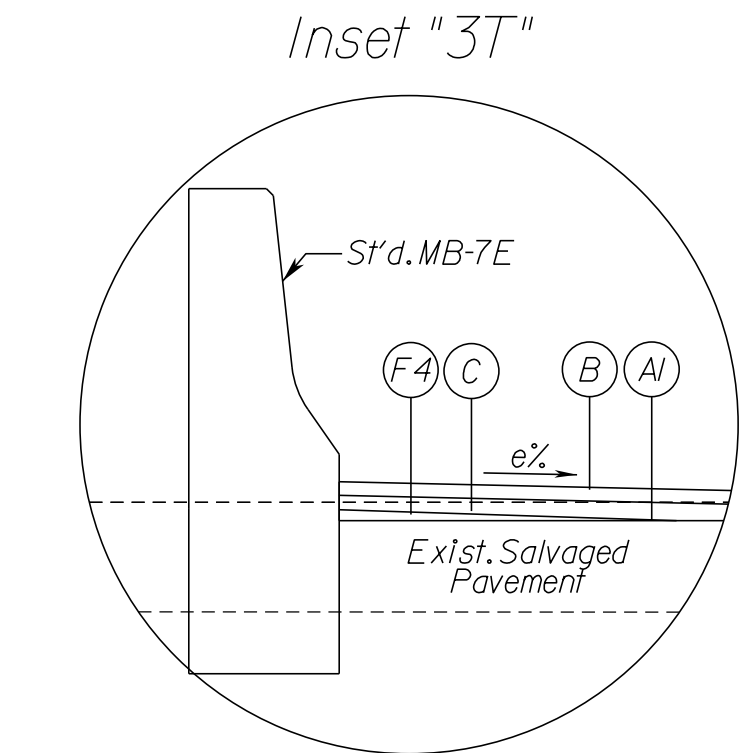
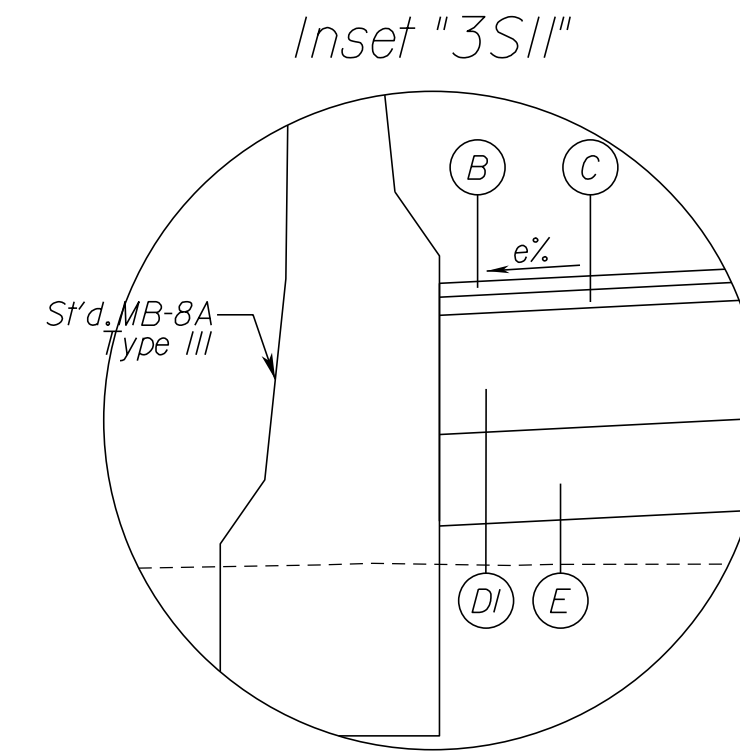
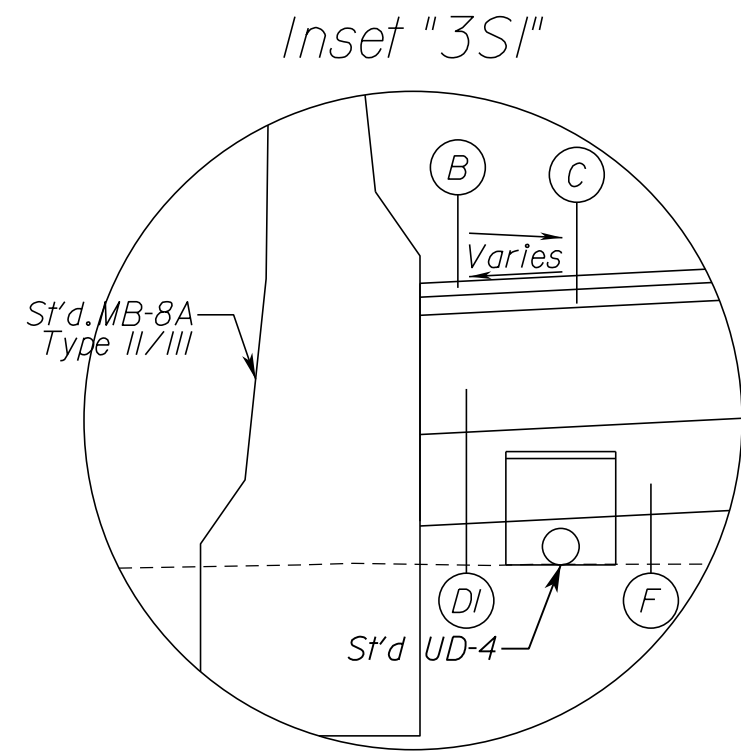


REVISED	STATE	ROUTE	STATE	VDOT PROJECT NO.	SHEET NO.
	VA	495		0495-029-419 C501 RW201	2B(7) AREA 3

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ECS  
Chantilly, Virginia  
(GEOTECHNICAL ENGINEER)

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



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N.T.S.	VDOT PROJECT NO. 0495-029-419	SHEET NO. 2B(7) AREA 3
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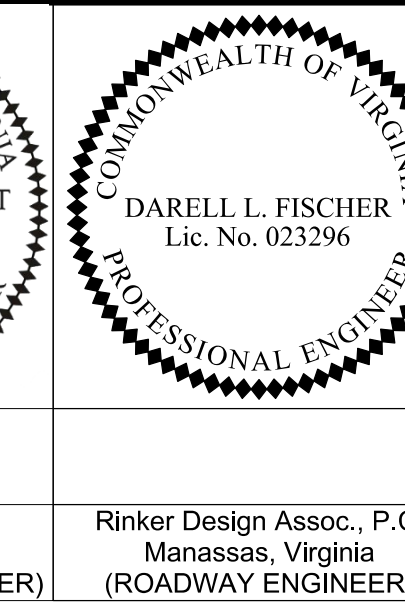
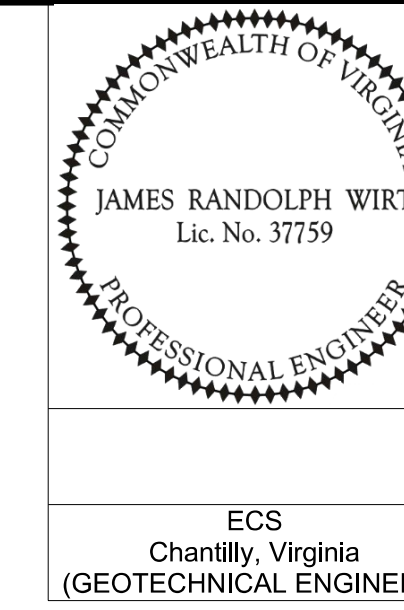
APPROVED FOR CONSTRUCTION

NOVA DISTRICT



PROJECT MANAGER\_VDOT - Rupal Shah, P.E. (703) 259-2362  
 SURVEYED BY, DATE\_RDA - Nicholas Kaugaulis, LS (703) 334-0837, 12/2021  
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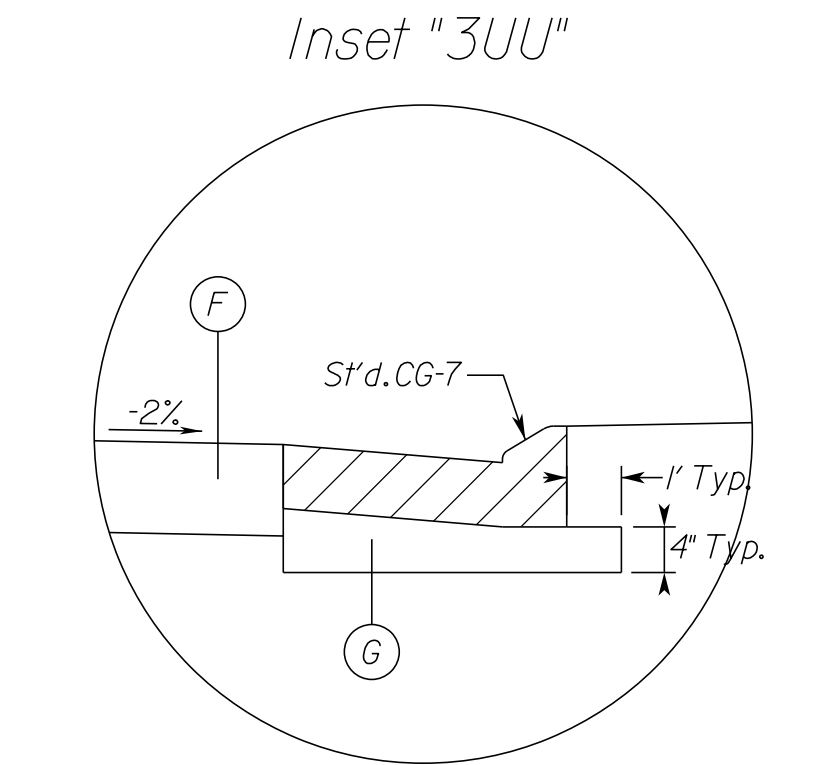
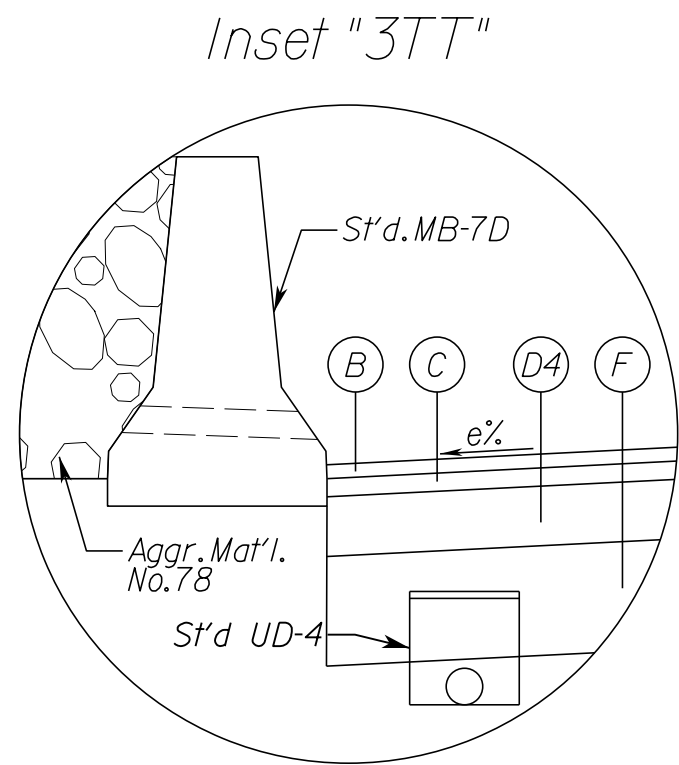
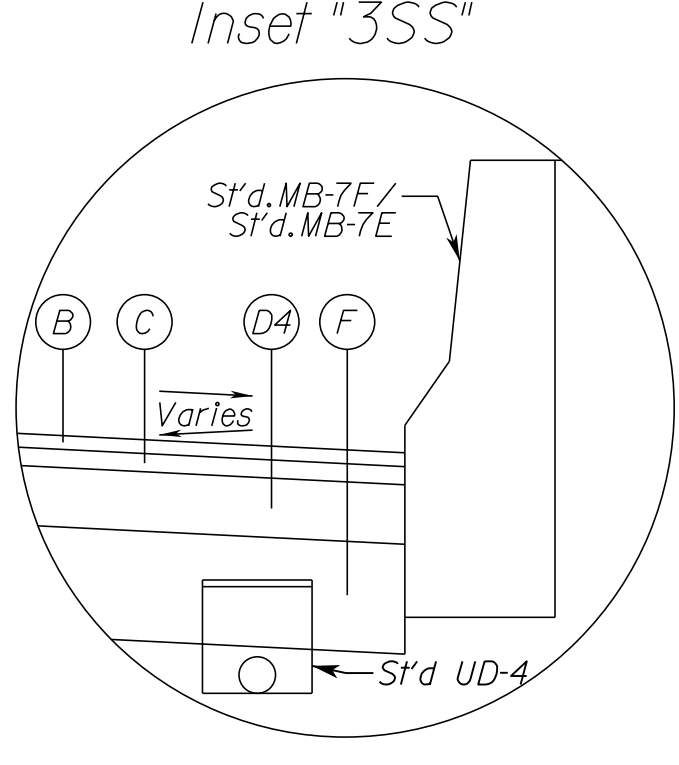
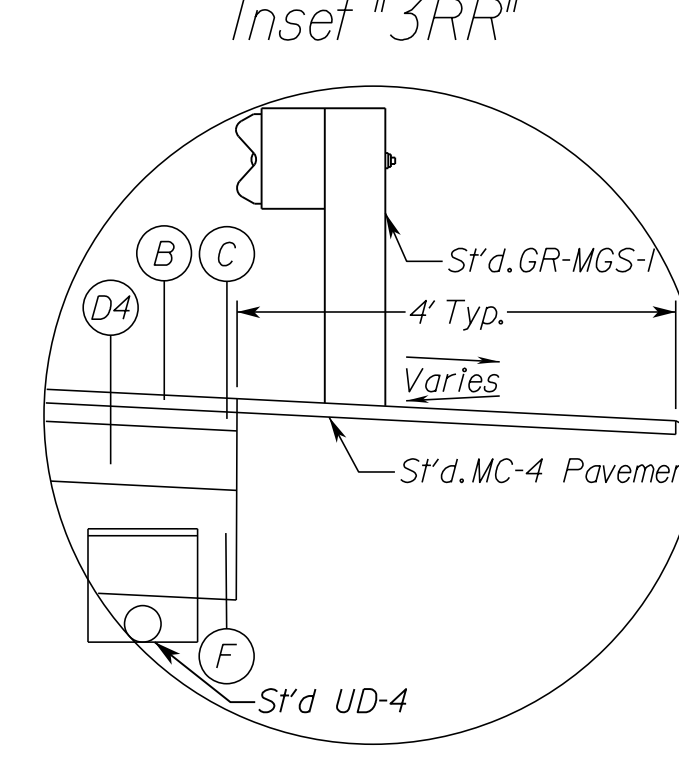
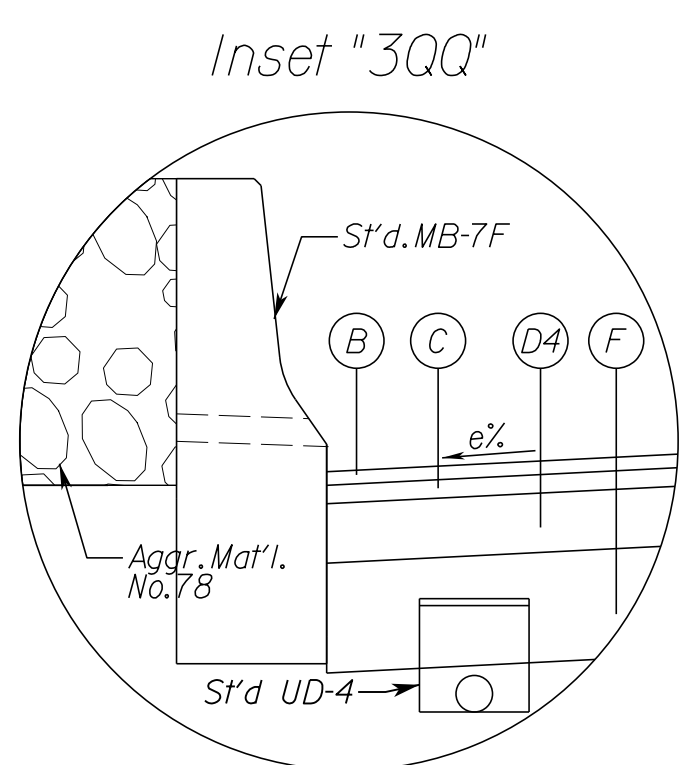
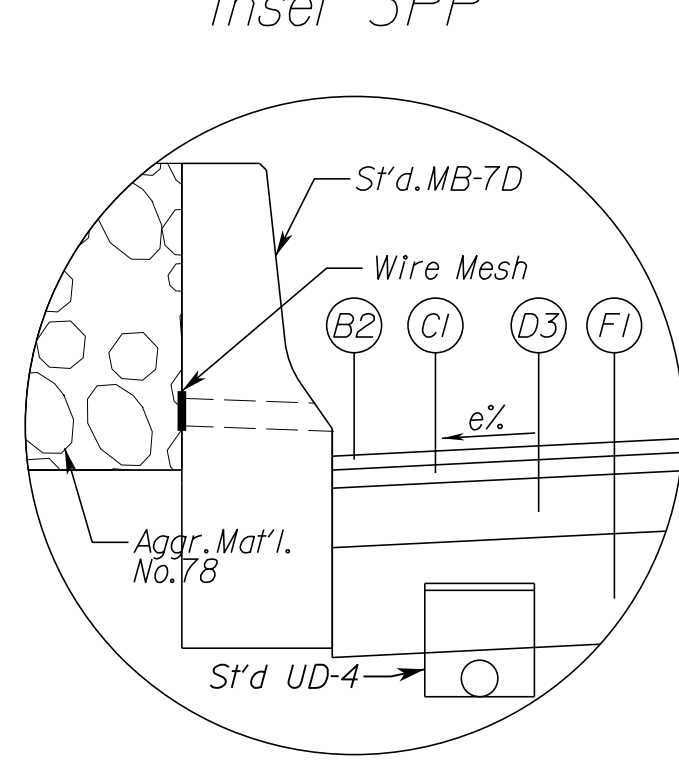
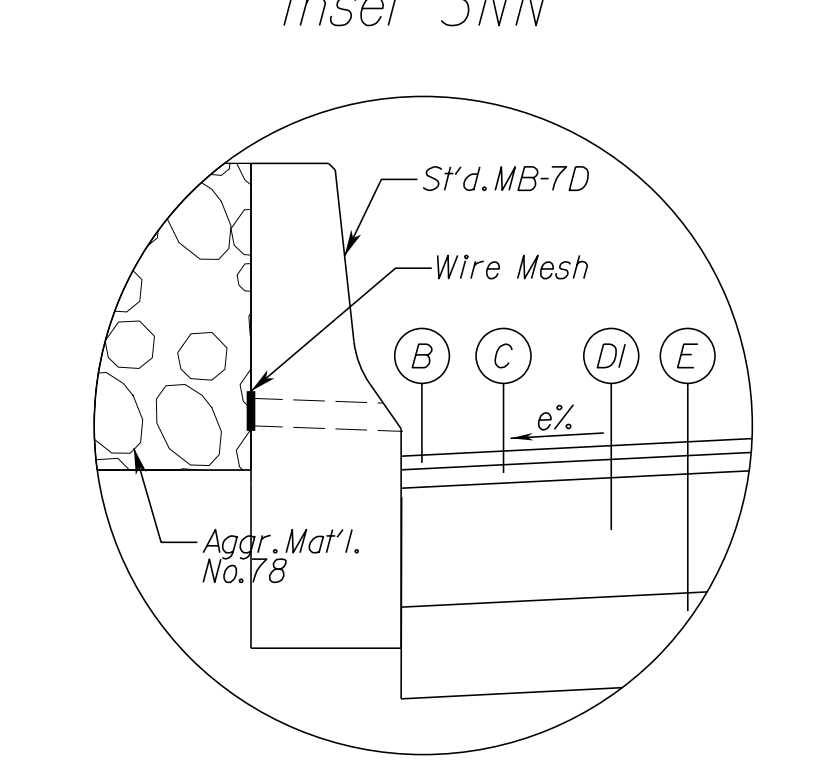
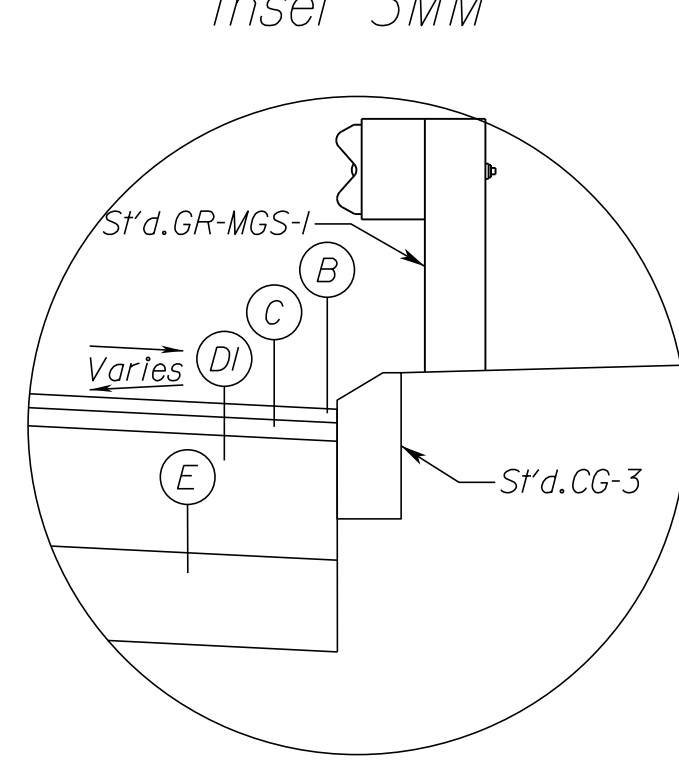
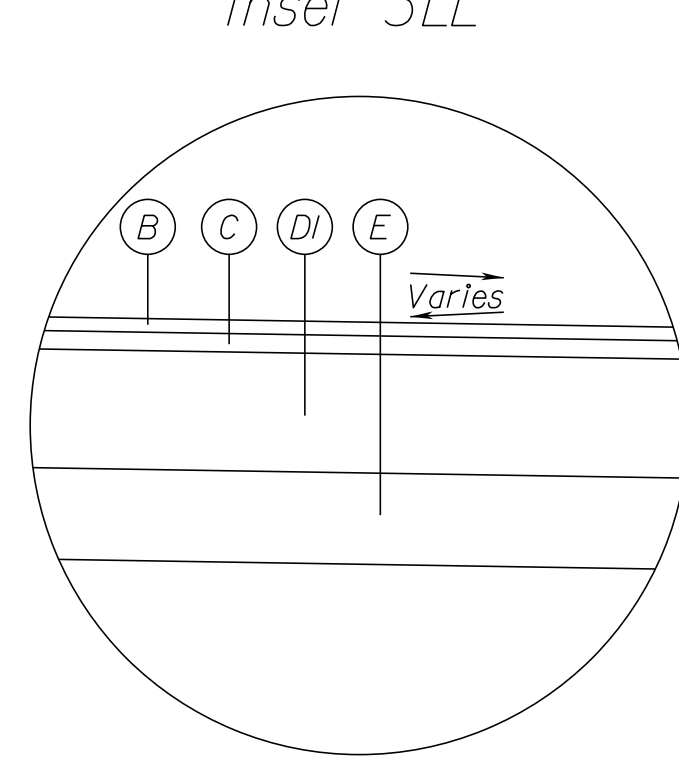
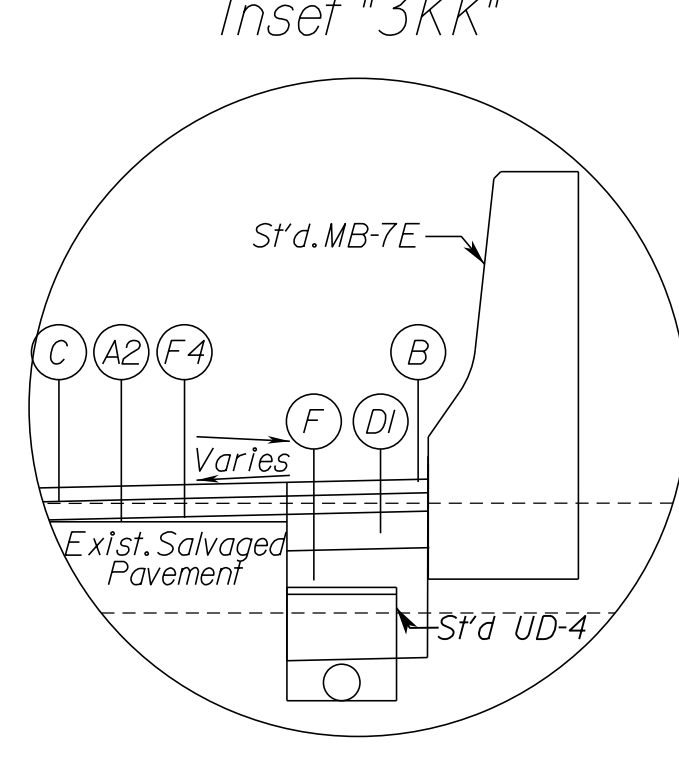
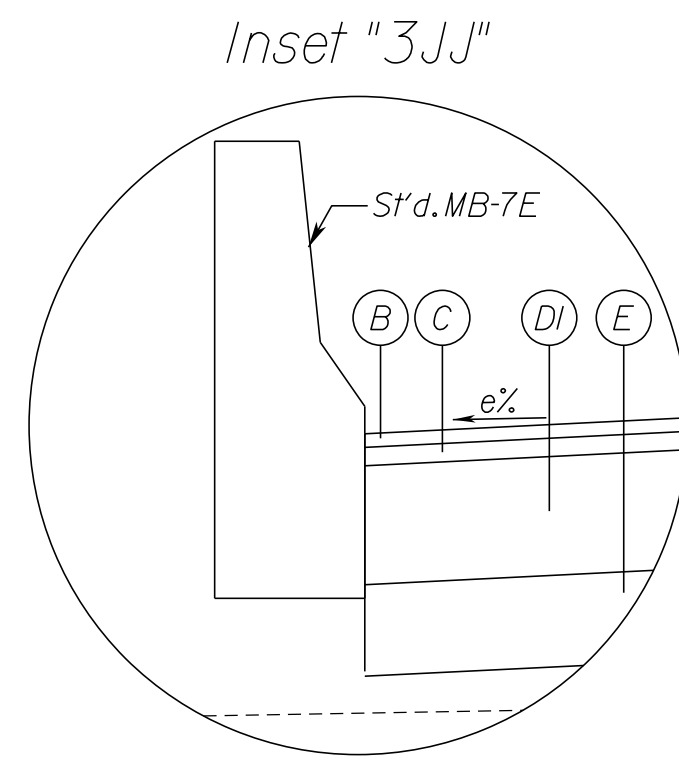
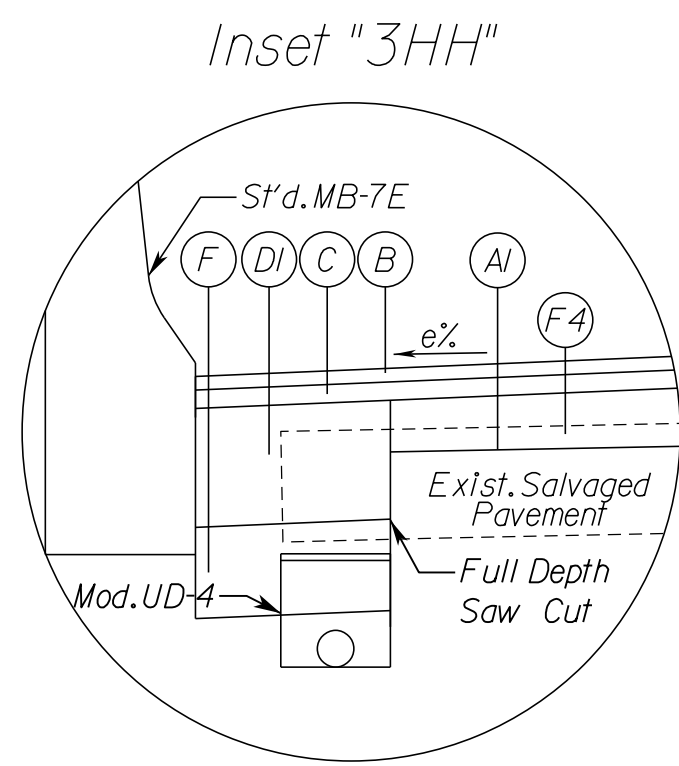
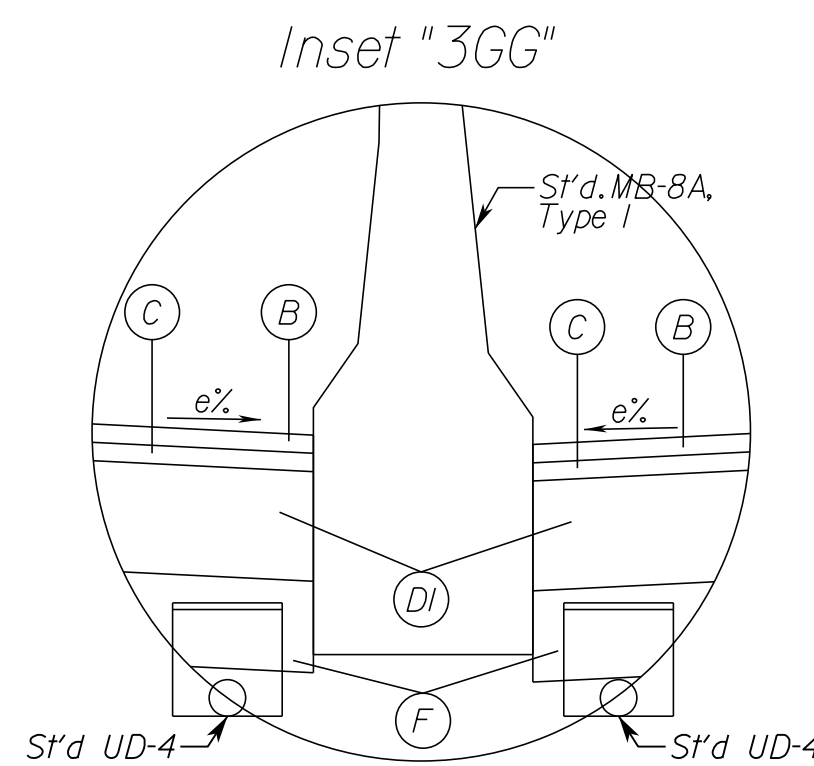
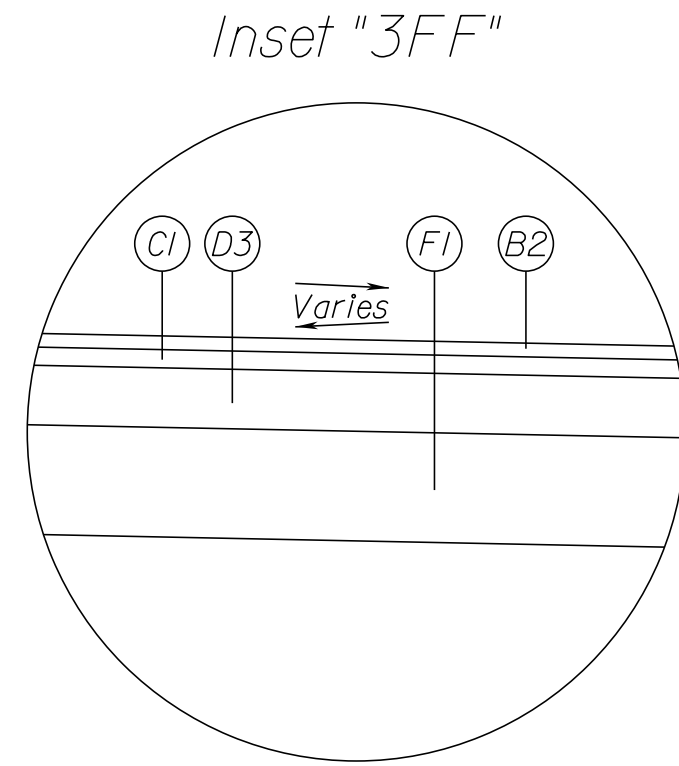
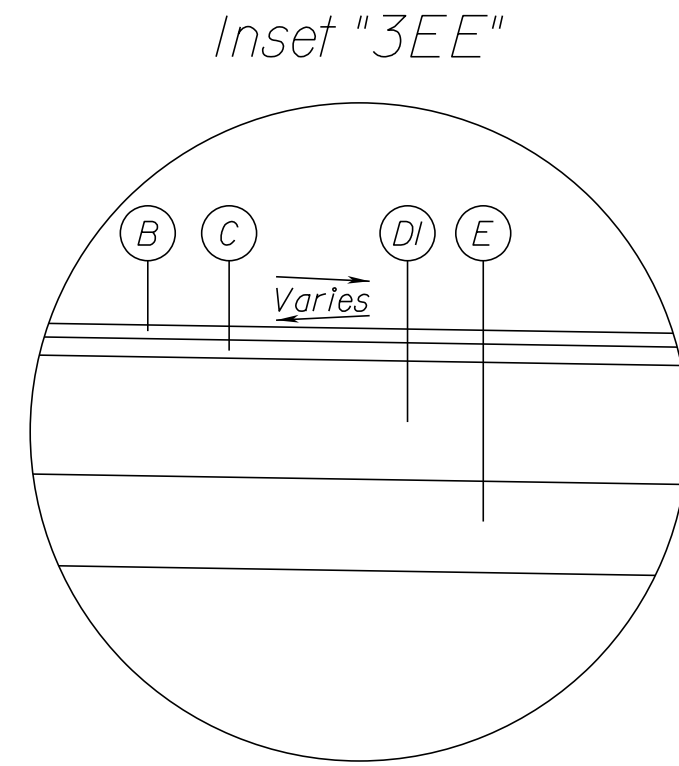
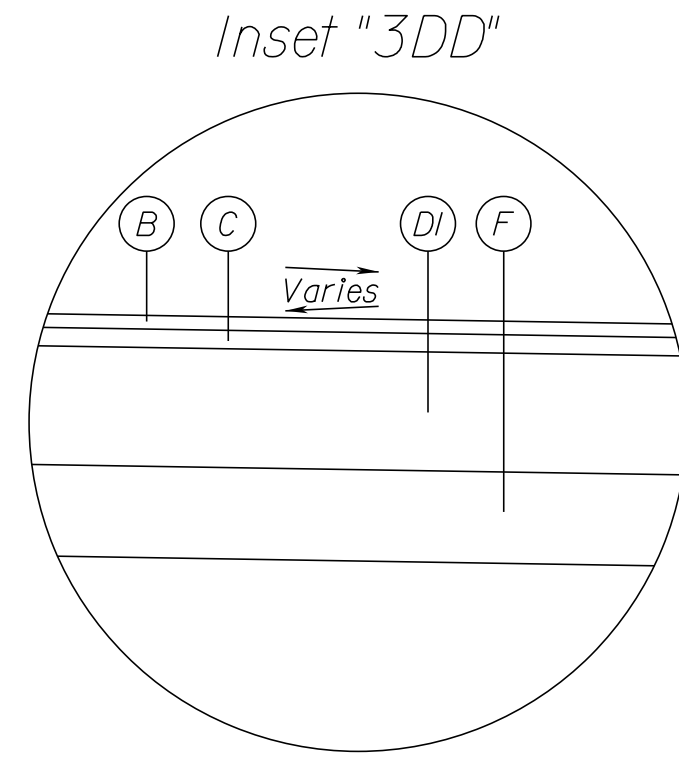
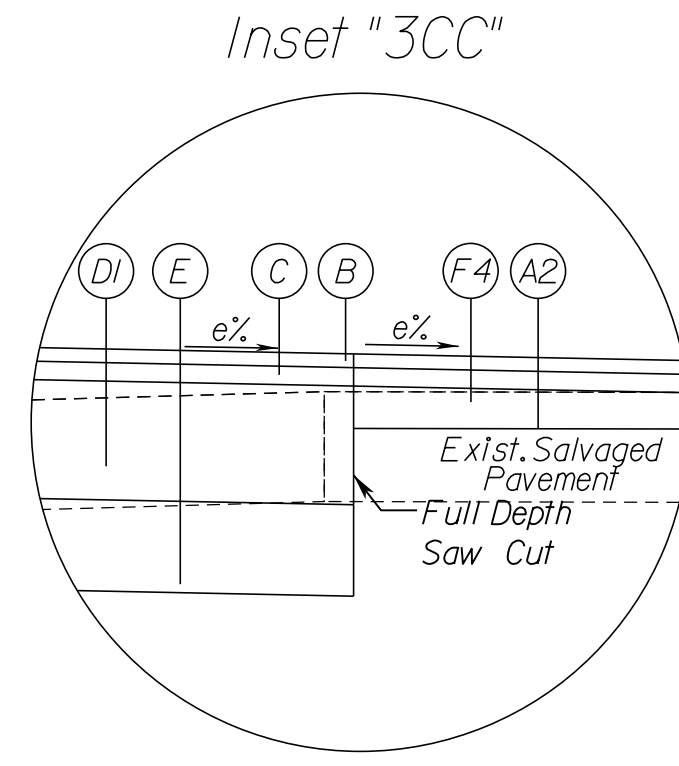


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ECS  
Chantilly, Virginia  
(GEOTECHNICAL ENGINEER)

Rinker Design Assoc., P.C.  
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- (H) Hydraulic Cement Concrete - 4 Inch Depth

N.T.S.	VDOT PROJECT NO. 0495-029-419	SHEET NO. 2B(8) AREA 3
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APPROVED FOR CONSTRUCTION

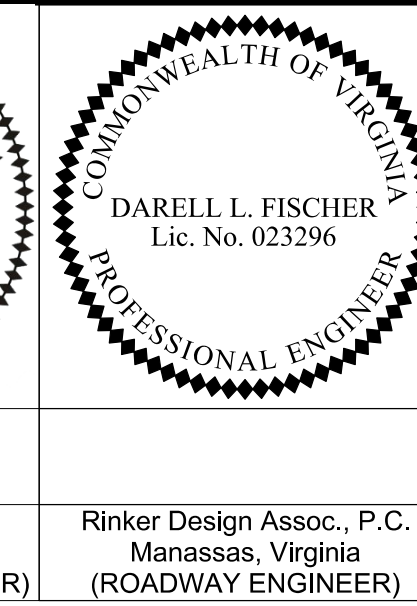
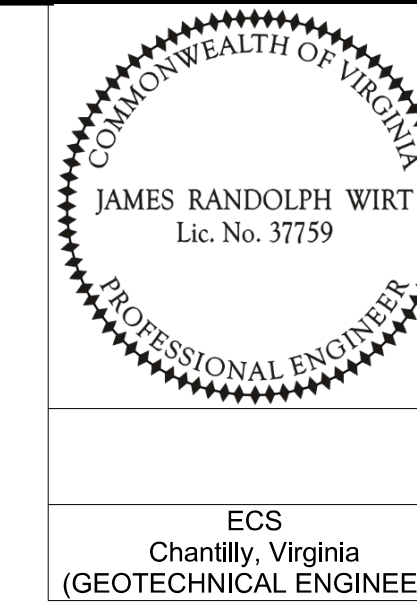
NOVA DISTRICT

10/16/2022



PROJECT MANAGER VDOT - Rupal Shah, PE, (703) 259-2362  
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# Typical Section Details



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	VA.	495		0495-029-419 C501 RW201	2B(9) AREA 3

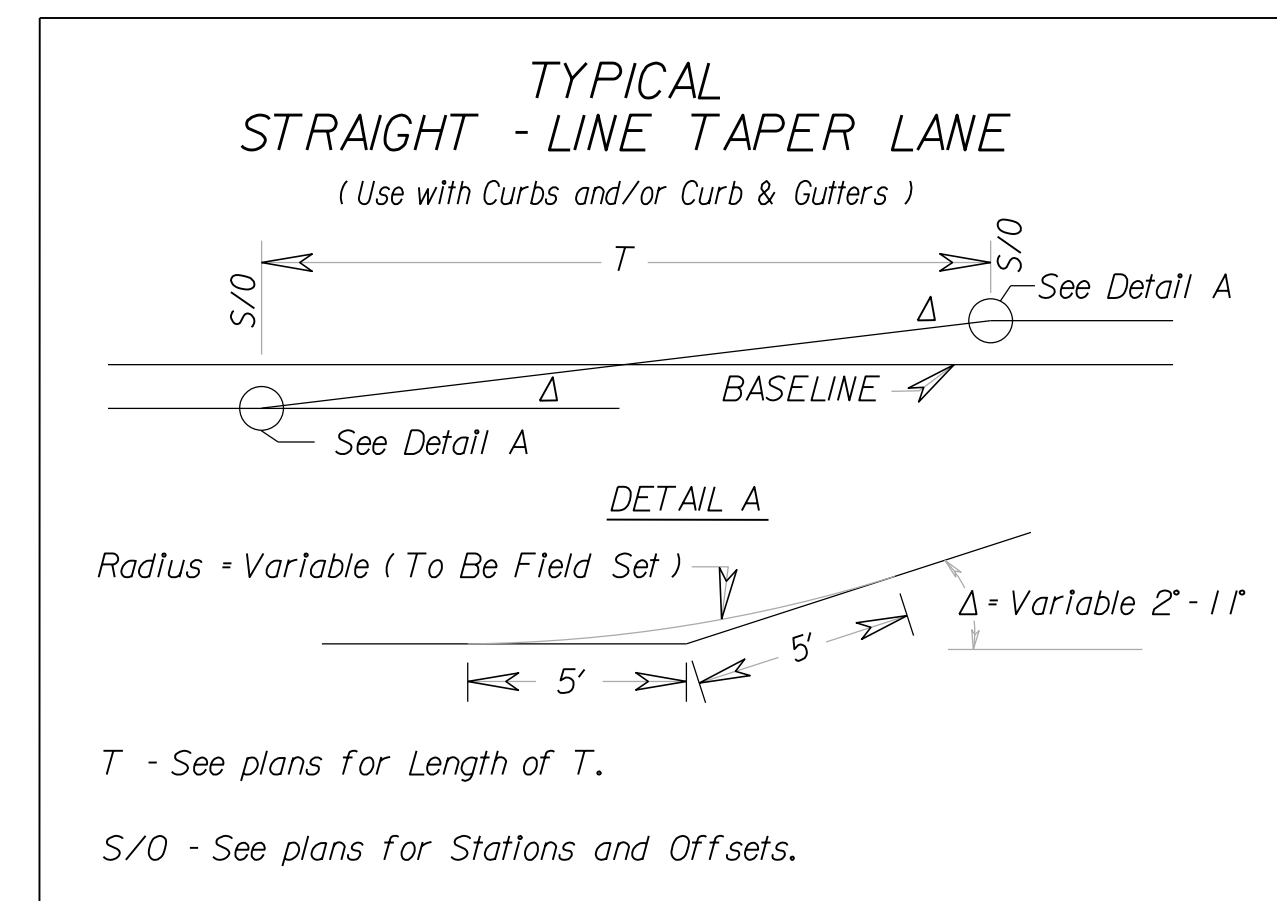
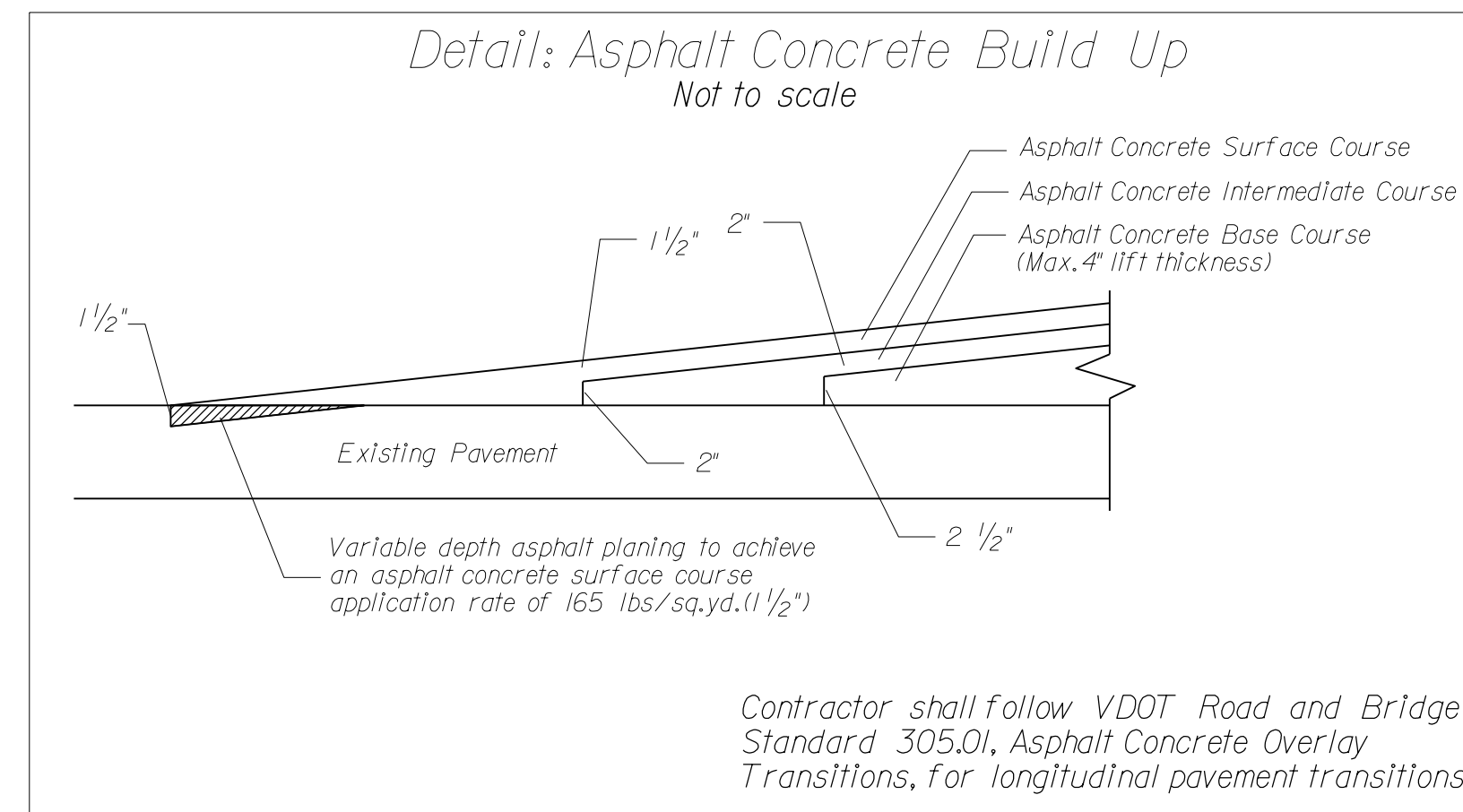
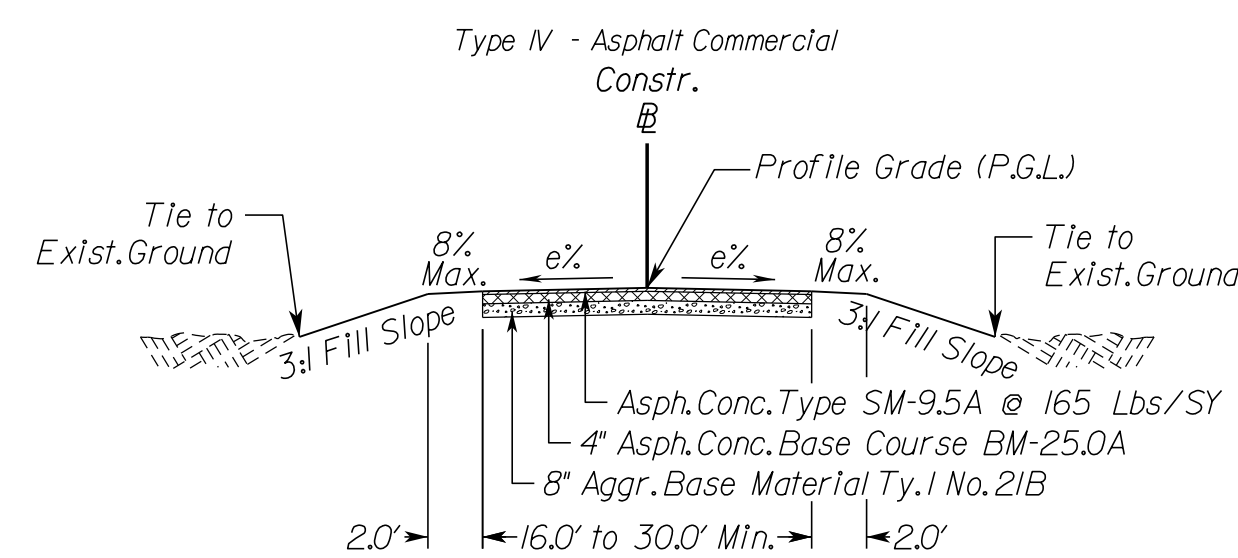
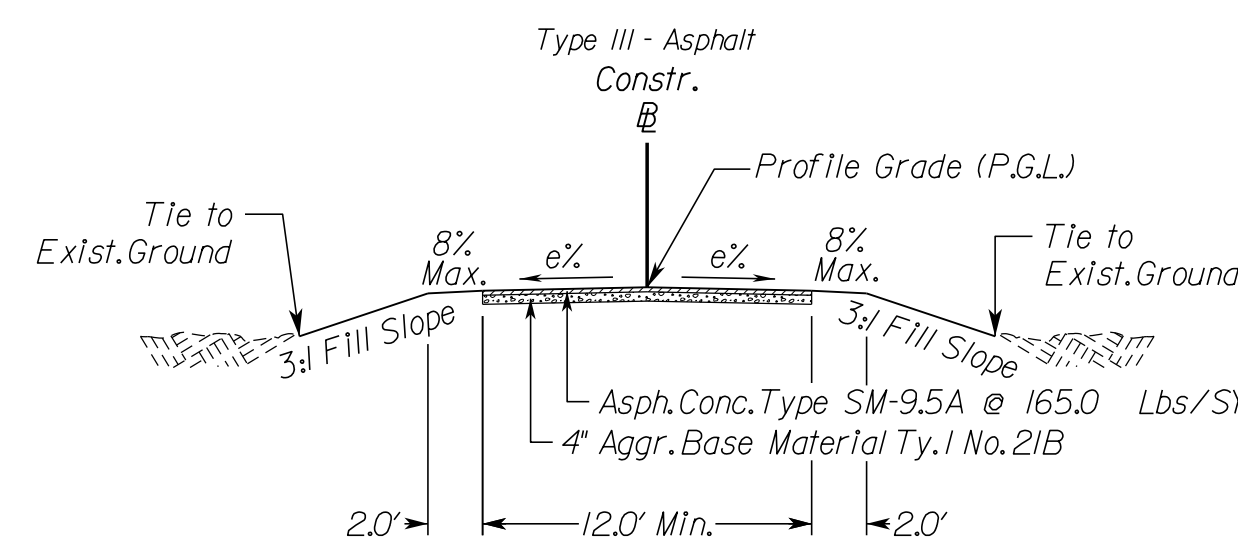
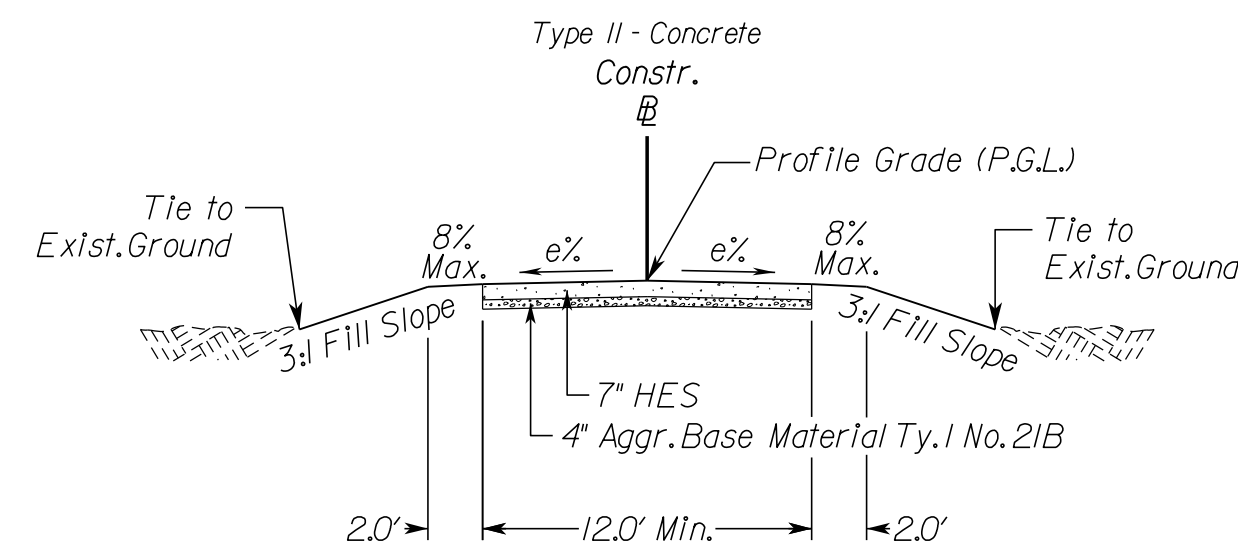
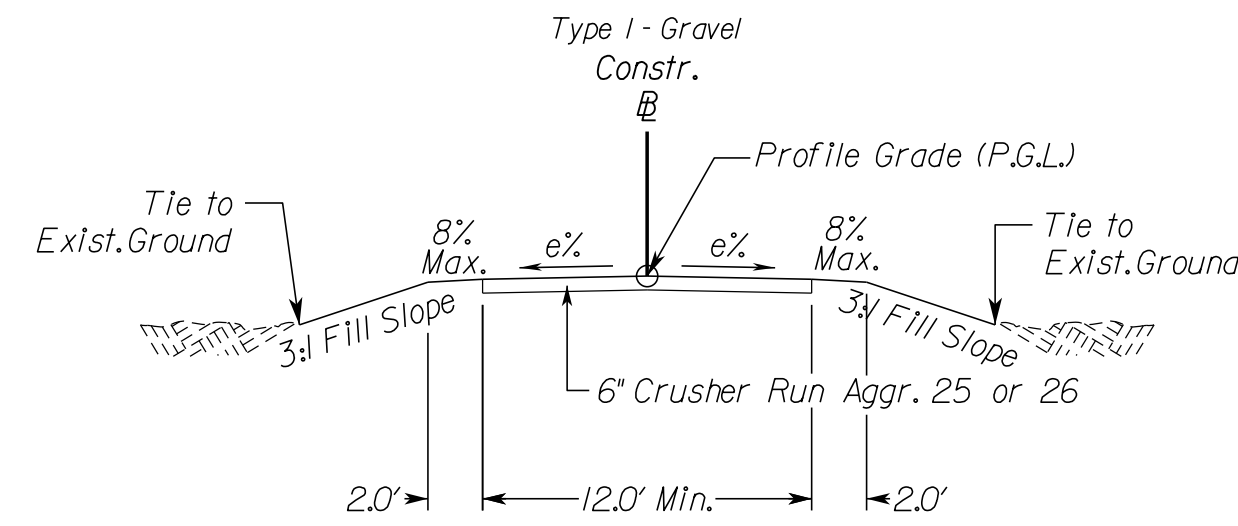
DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT

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

## Private & Commercial Entrances

VDOT ST's 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

10/6/2022

N.T.S.	VDOT PROJECT NO. 0495-029-419	SHEET NO. 2B(9) AREA 3
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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  
Dewberry - Ron Jakomilich, PE, (703) 849-0651  
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(10) AREA 3

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.	St'd.MB-7D		St'd.MB-7E		St'd.MB-7F		BPB-4 with Moment Slab		St'd.MB-8A TY I		St'd.MB-8A TY II		St'd.MB-8A TY III		St'd.BPPS-1A		St'd.BPPS-3A		Tall Wall		Notes			
	Sta	Sta	Sta	Sta	Sta	Sta	Sta	Sta	Sta	Sta	Sta	Sta	Sta	Sta	Sta	Sta	Sta	Sta	Sta	Sta				
495NB LT	13	-	-	-	-	-	-	-	-	-	-	-	-	-	-	654*42	655*95	-	-	-	-	Station range includes transition lengths		
495NB RT	10	615*00	615*10	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
		617*41	623*50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
	11	623*50	625*10	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
		-	-	-	-	625*10	631*30	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
		631*30	637*50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
		637*50	639*09	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
12	-	-	-	-	639*09	643*78	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
	647*85	648*14	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
495SB LT	10	215*50	218*06	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
		220*22	224*00	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
		224*00	225*45	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
	11	-	-	-	-	225*45	230*89	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
		-	-	-	-	-	-	230*89	236*77	-	-	-	-	-	-	-	-	-	-	-	-	-		
		236*77	238*00	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
12	238*00	244*02	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-				
14	-	-	-	-	269*89	270*99	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
	-	-	276*21	276*50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
495SB RT	13	-	-	-	-	254*86	255*22	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
		-	-	275*61	276*50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	Station range includes transition lengths	
Ramp SE LT	12	14*13	14*43	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
	13	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
Ramp SW LT	12	10*36	18*00	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
	13	18*00	20*14	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
Ramp NE RT	13	-	-	-	-	-	-	11*50	16*48	-	-	-	-	-	-	-	-	-	-	-	-			
		-	-	-	-	16*48	20*50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Ramp NW LT	13	-	-	-	-	7*23	7*83	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
		-	-	-	-	-	-	9*42	12*72	-	-	-	-	-	-	-	-	-	-	-	-	-		
Ramp NW RT	13	-	-	-	-	12*72	13*54	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
		-	-	-	-	6*89	7*49	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
14	-	-	-	-	14*00	15*00	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
	-	-	-	-	15*00	20*32	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
GTP LT	13	-	-	-	-	22*40	22*92	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
GTP RT	13	-	-	-	-	26*27	26*59	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
Ramp G2I LT	13	-	-	-	-	6*17	6*89	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	Station range includes transition lengths	
14	-	-	-	-	7*70	14*00	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
	22*46	24*75	-	-	14*00	22*46	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
Ramp G2I RT	13	-	-	-	-	7*08	7*34	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	Station range includes transition lengths	
495NB LT / 495SB RT	10	-	-	-	-	8*28	12*60	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
		-	-	615*21	616*30	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
		-	-	618*75	623*50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
		-	-	623*50	637*50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
		-	-	637*50	651*50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
		-	-	651*50	654*42	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
11	-	-	656*31	664*63	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
	664*63	664*81	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
14	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
Ramp G2I RT / Ramp NW LT	14	-	-	671*15	675*00	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
		-	-	19*91	24*75	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		

NOVA DISTRICT

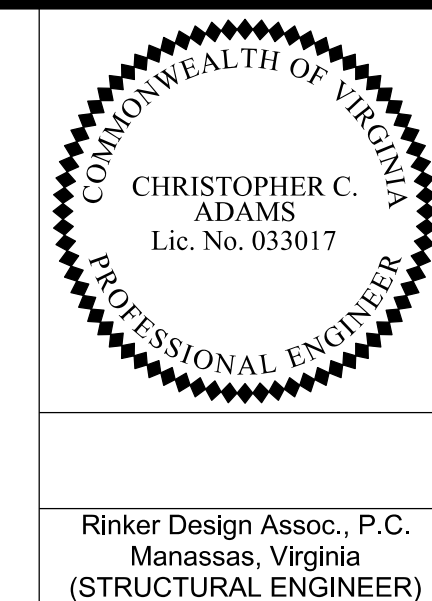
N.T.S.	VDOT PROJECT NO. 0495-029-419	SHEET NO. 2B(10) AREA 3
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APPROVED FOR CONSTRUCTION



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 Accurark - Michael Taylor, LS (703) 635-3060, 12/2021

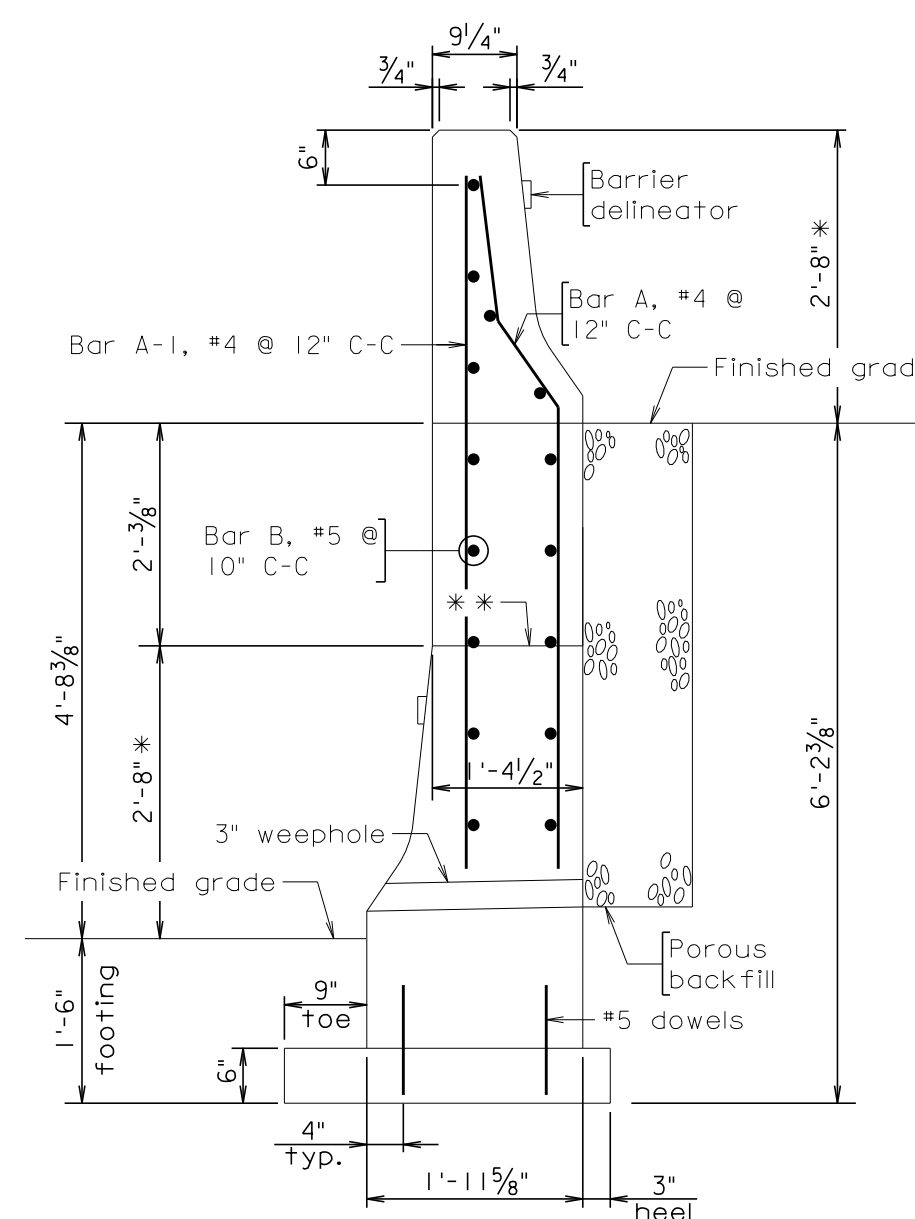
# Modified Median Barrier Details



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(III) AREA 3

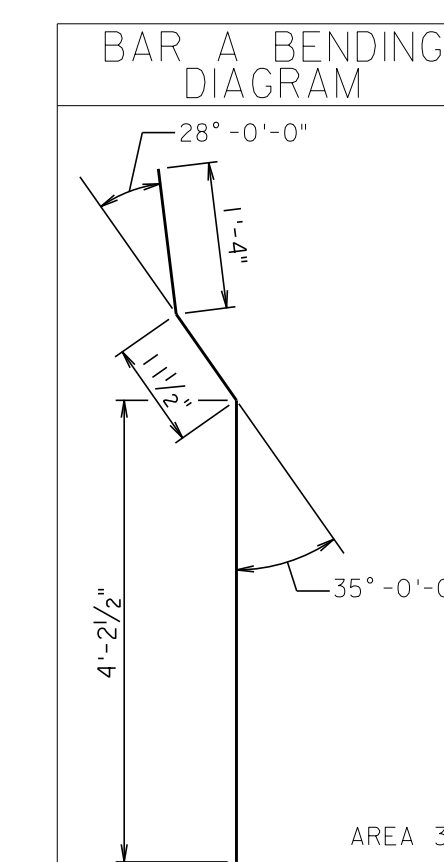
DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT



AREA A3 MODIFIED MB-8A BARRIER

**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.



REINFORCING STEEL SCHEDULE		BARS "A"		BARS "A-1"		BARS "B"		DOWELS	
Area	Station	No.	Length	No.	Length	No.	Length	No.	Length
A3	GTP RAMP SE LT Sta. 19+70 to 20+67	20	6'-6"	20	6'-4"	15	19'-8"	40	1'-0"

NOVA DISTRICT

10/6/2022

3" = 1'-0"	VDOT PROJECT NO. 0495-029-419	SHEET NO. 2B(III) AREA 3
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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 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 AREA 3

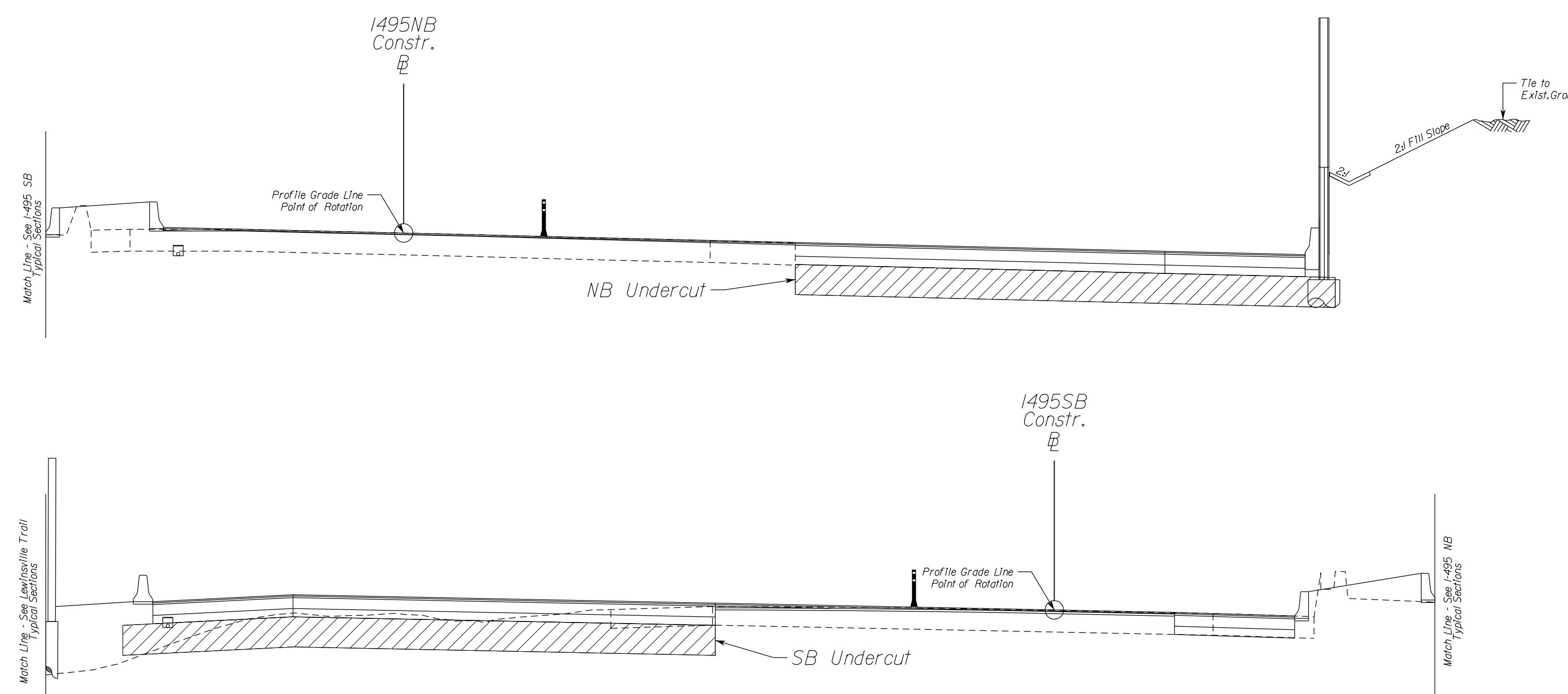
DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT

## 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 3
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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...

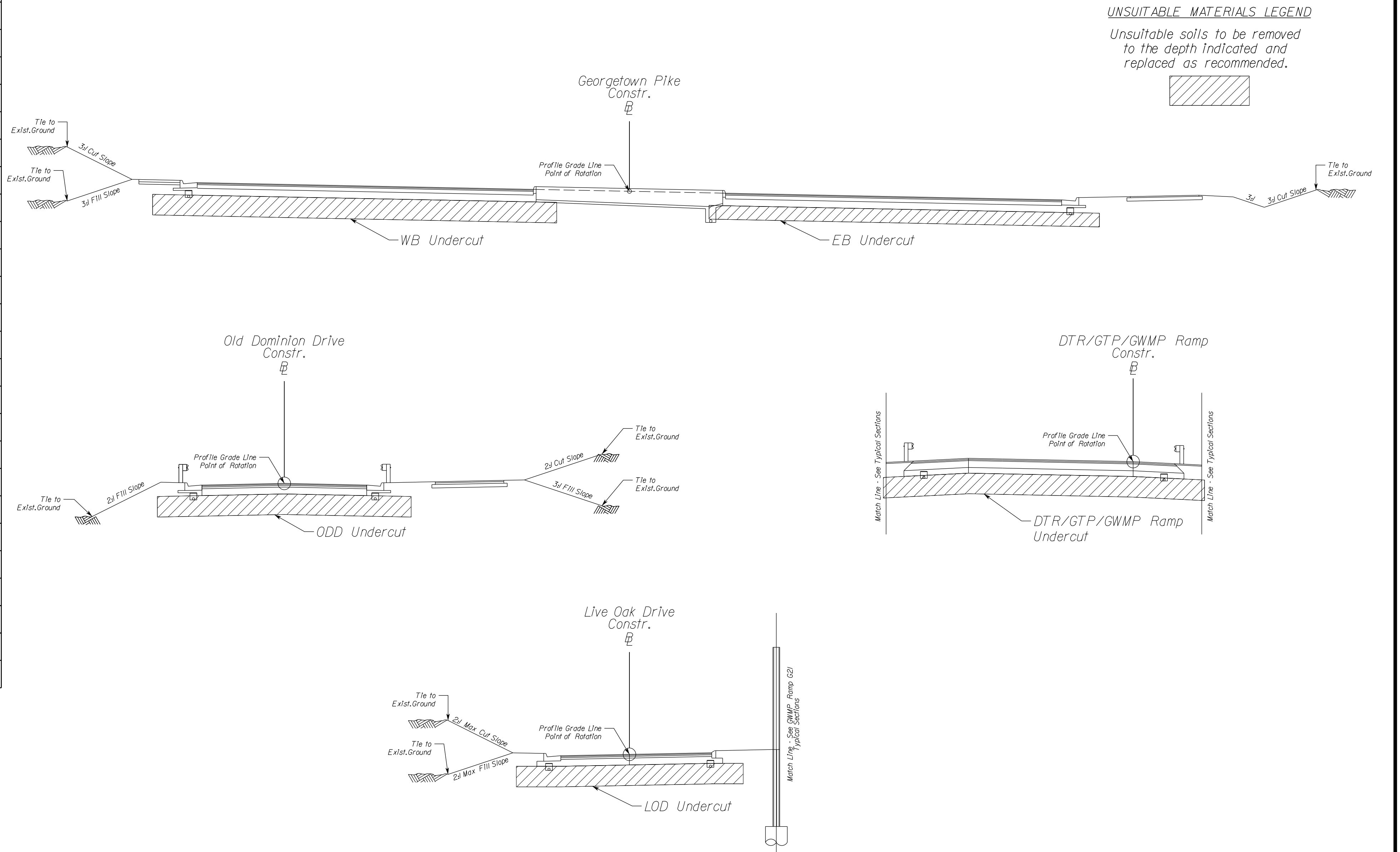
# Geotechnical Recommendations

REVISED	STATE	ROUTE	STATE	VDOT PROJECT NO.	SHEET NO.
	VA	495		0495-029-419 C501 RW201	2C(1) AREA 3

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
<b>DTR Ramp E1</b>				
Sta. 23+75 to 29+00	-	3'	Low CBR	DI,D2,D3
<b>Georgetown Pike</b>				
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
<b>GTP Ramp NE</b>				
Sta. 19+00 to 20+00	-	3'	CH/MH Within 3' of Subgrade	DI,D2,D3
<b>GTP Ramp SE</b>				
Sta. 11+95 to 17+50	-	3'	Low CBR	DI,D2,D3
<b>GTP Ramp SW</b>				
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
<b>GWMP Ramp G21</b>				
Sta. 33+33 to 34+15	-	3'	CH/MH Within 3' of Subgrade	DI,D2,D3
<b>GWMP Ramp E21</b>				
Sta. 28+05 to 30+70	-	3'	Low CBR	DI,D2,D3
<b>GWMP Ramp G22</b>				
Sta. 24+95 to 26+20	-	2'	Low CBR	DI,D2,D3
Sta. 26+20 to 28+75	-	3'	Low CBR	DI,D2,D3
<b>GWMP Ramp E22</b>				
Sta. 25+78 to 27+13	-	2'	Low CBR	DI,D2,D3
Sta. 27+13 to 29+50	-	3'	Low CBR	DI,D2,D3
<b>Old Dominion Drive</b>				
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 3
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APPROVED FOR CONSTRUCTION

NOVA DISTRICT

10/28/2022



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 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(2) AREA 3

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%	No Geogrid required
	Ramp G3 - 43+50	22.1	1.53	1.53	0.00%	1.53	1.53	0.00%	No Geogrid required
2	495NB - 585+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
	LewTrl - 31+00	19.7	1.54	1.54	0.00%	1.54	1.54	0.00%	No Geogrid required
	LewTrl - 31+00	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
	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%	No Geogrid required	
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

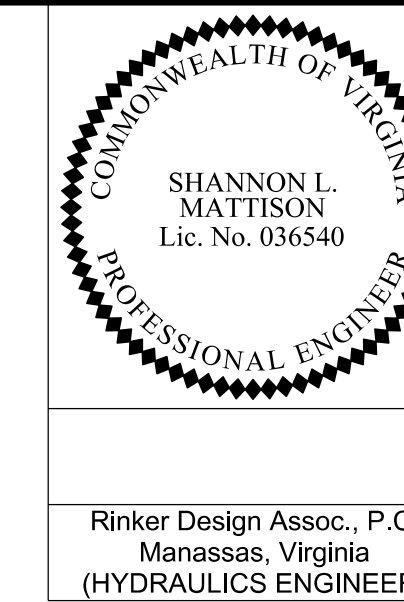
10/28/2022

APPROVED FOR CONSTRUCTION



PROJECT MANAGER VDOT - Rupal Shah, 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 Accurark - Michael Taylor, LS, (703) 635-3060, 12/2021

# Modified Underdrain Details

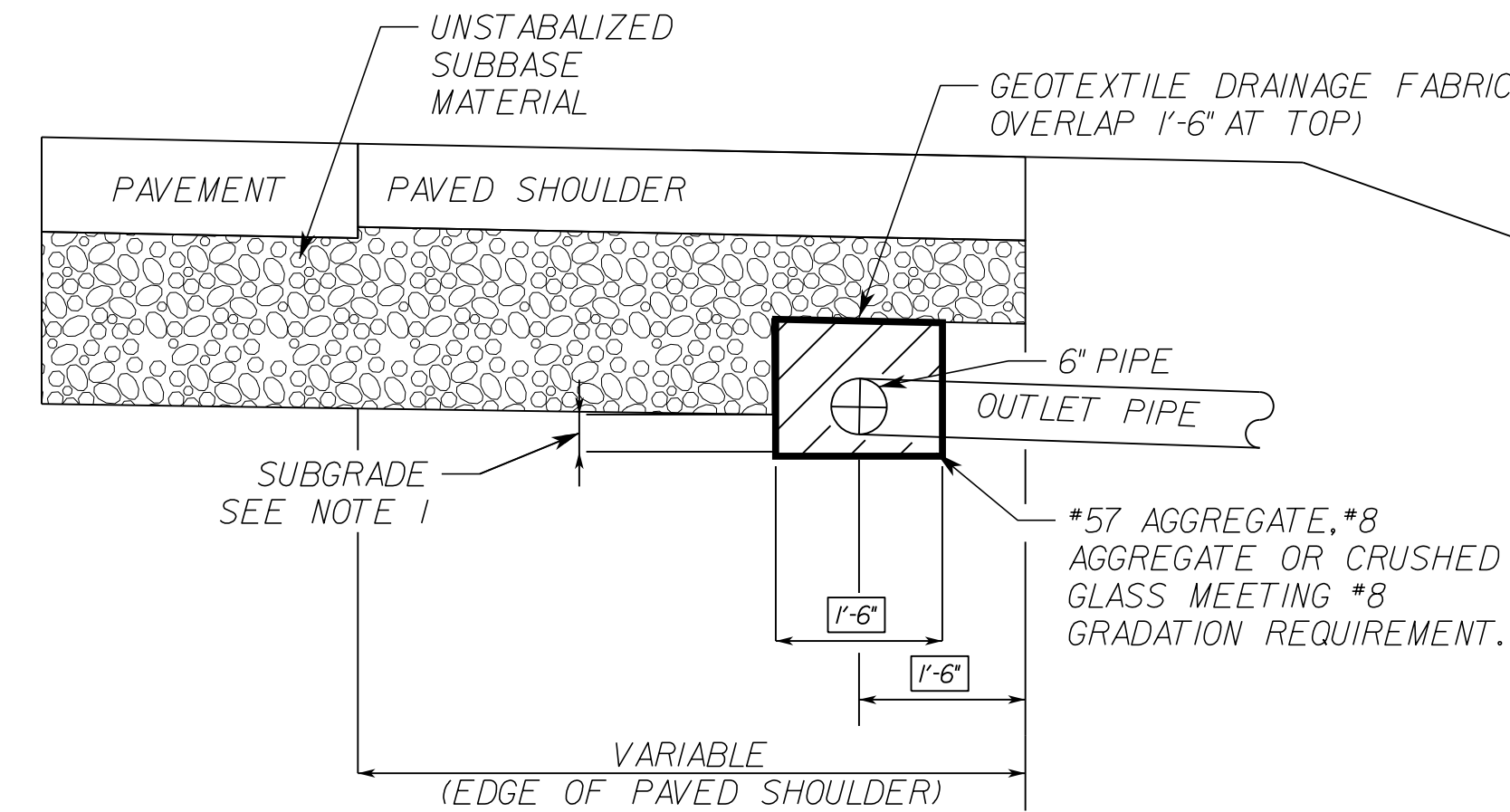


REVISED	STATE	ROUTE	STATE	VDOT PROJECT NO.	SHEET NO.
	VA.	495		0495-029-419 C501 RW201	2F AREA 3

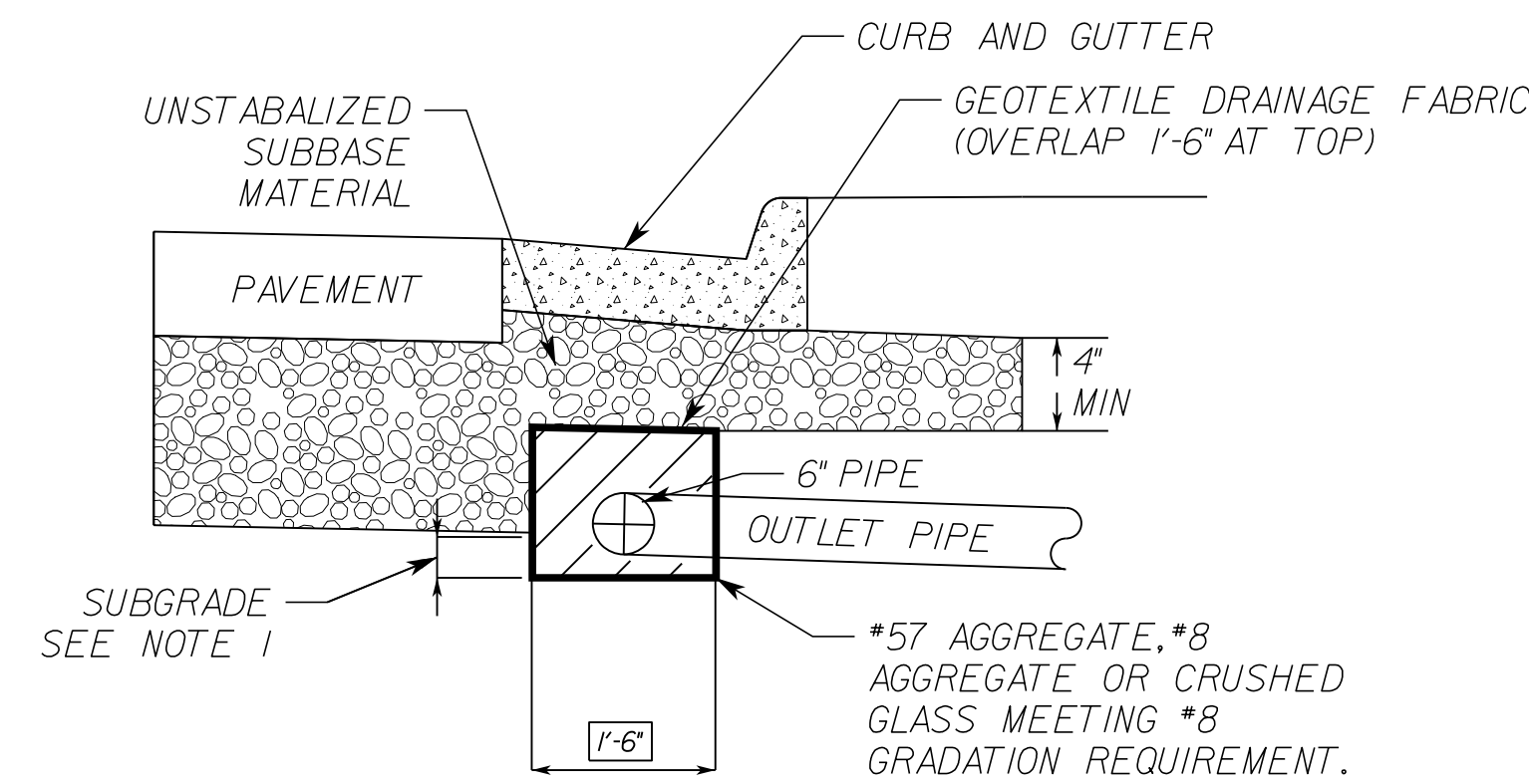
DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT

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

### MOD.UD-4 UNDER PAVED SHOULDER

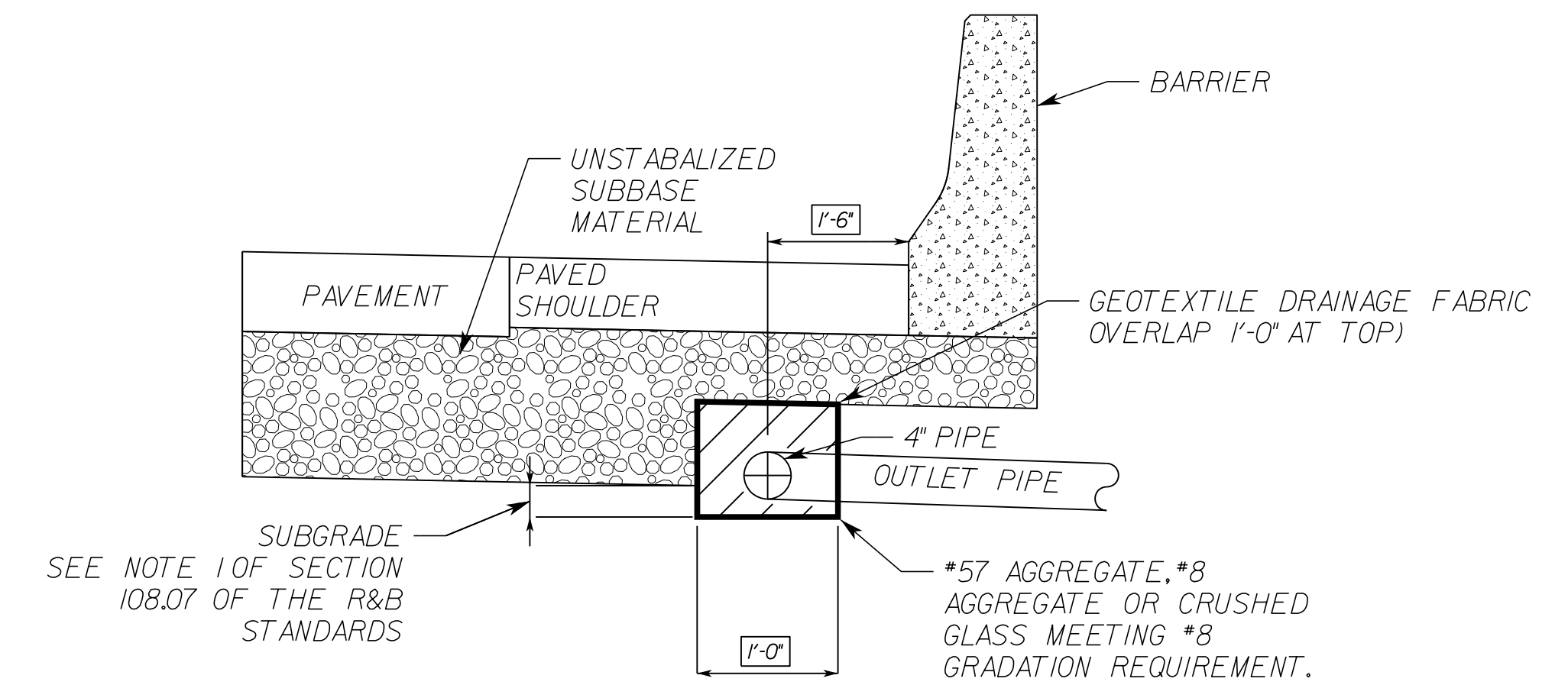


### MOD.UD-4 UNDER CURB & GUTTER

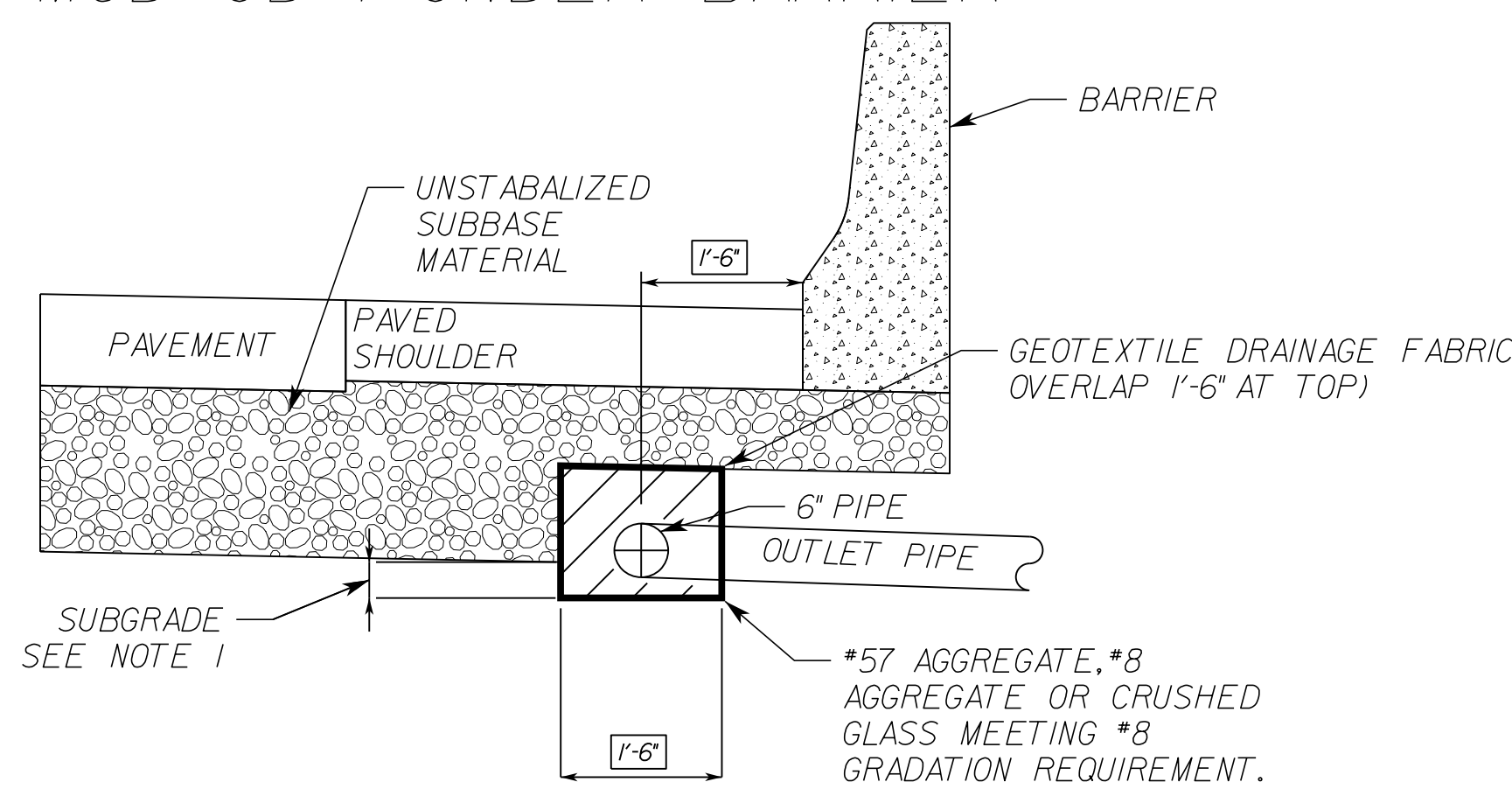


UNDERDRAIN SHALL BE CENTERED UNDER CURB AND GUTTER

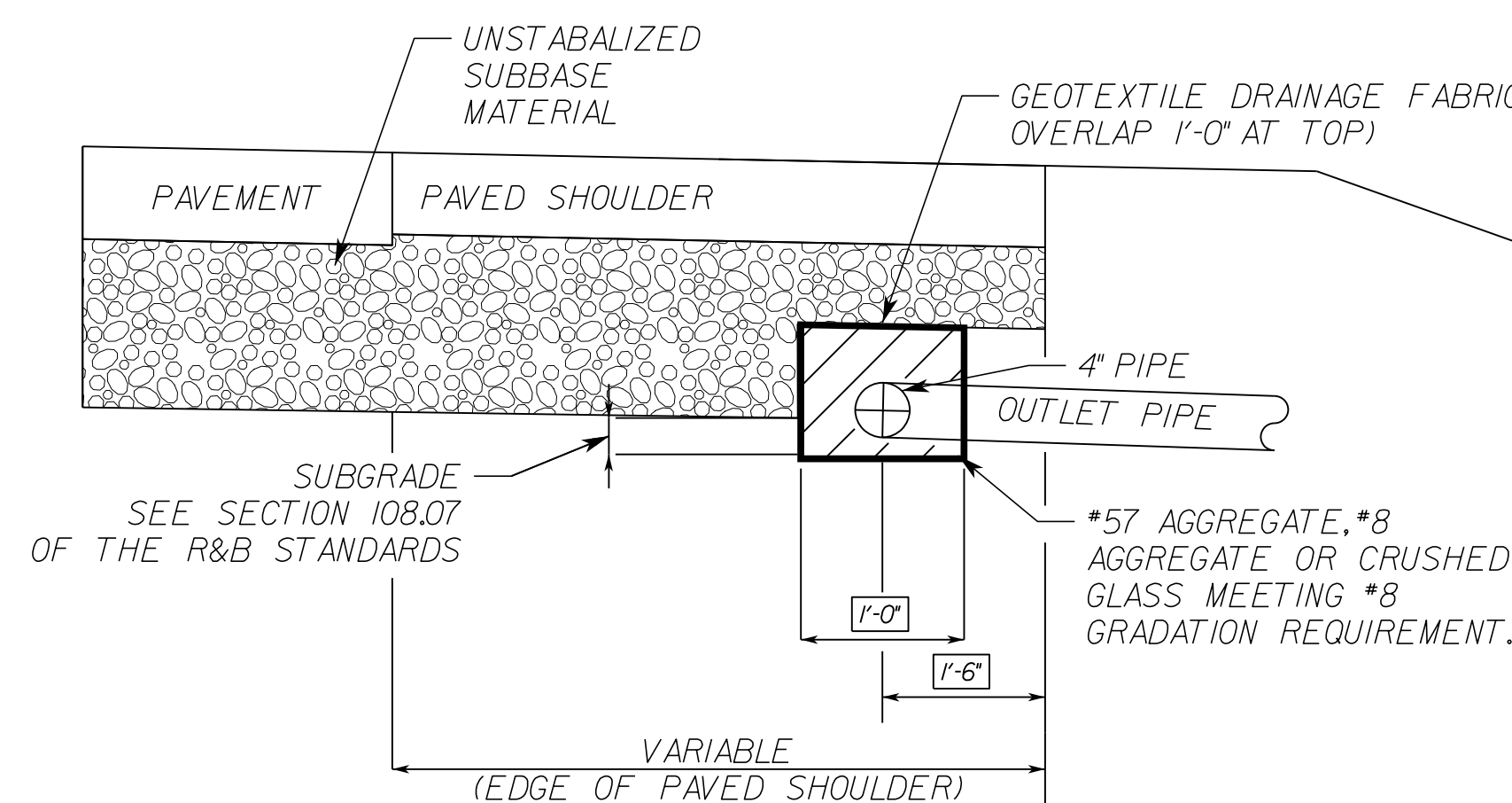
### ST'D.UD-4 UNDER BARRIER



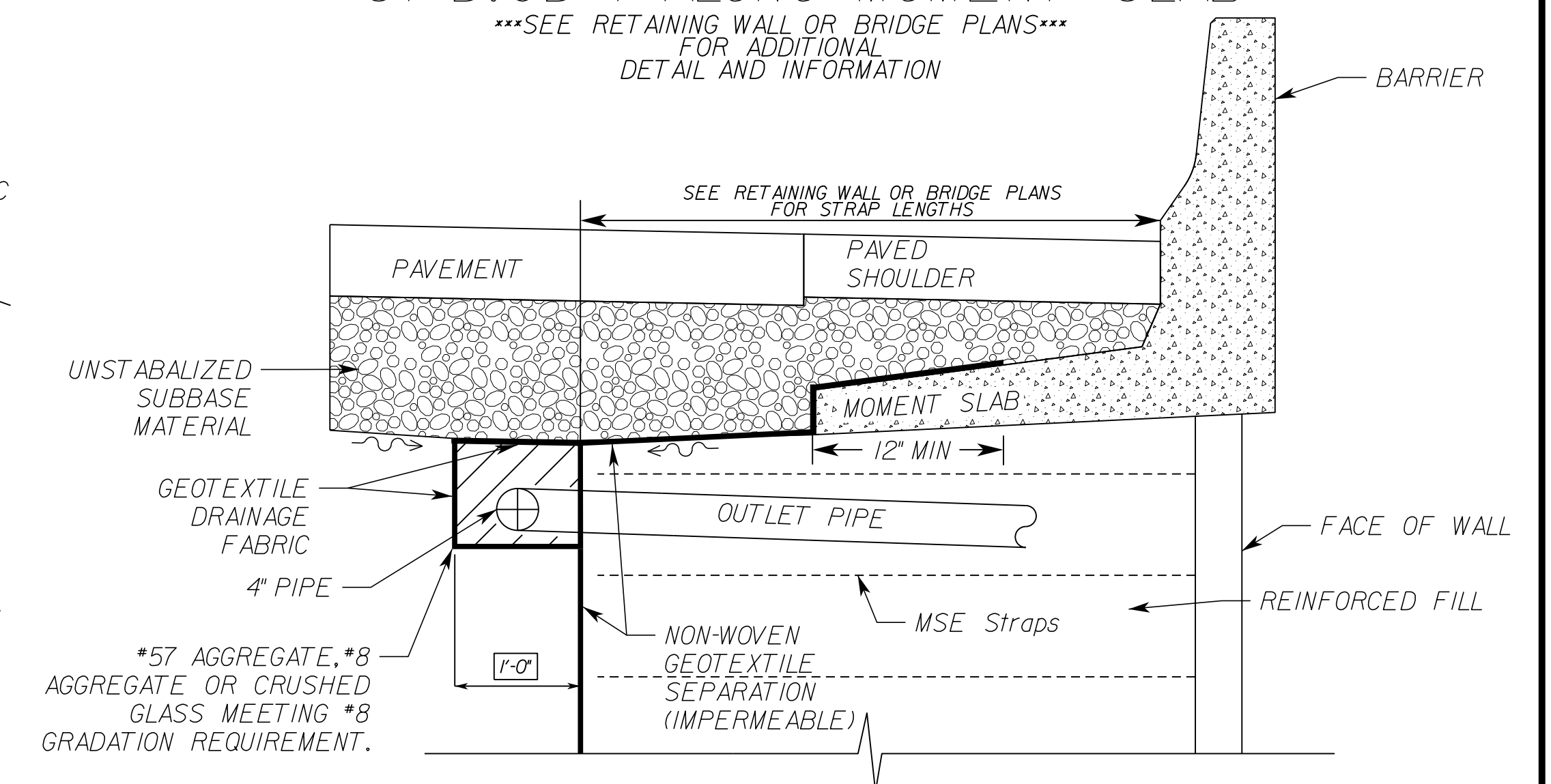
### MOD UD-4 UNDER BARRIER



### ST'D.UD-4 UNDER PAVED SHOULDER WITH MODIFIED PLACEMENT



### ST'D.UD-4 ALONG MOMENT SLAB



#### 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.

#### 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.

NOT TO SCALE

VDOT PROJECT NO.  
0495-029-419

SHEET NO.  
2F  
AREA 3

APPROVED FOR CONSTRUCTION

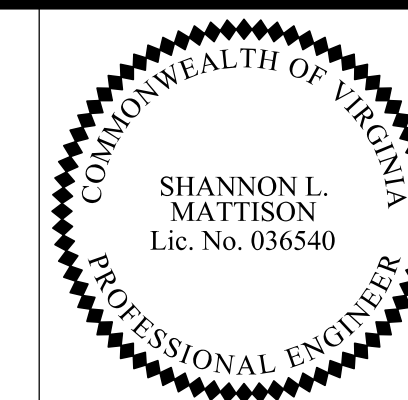
NOVA DISTRICT

10/16/2022



PROJECT MANAGER VDOT - *Ritupal 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 Jakomlitch, P.E. (703) 849-0651*  
SUBSURFACE UTILITY BY, DATE Accurark - *Michael Taylor, LS (703) 635-3060, 12/2021*

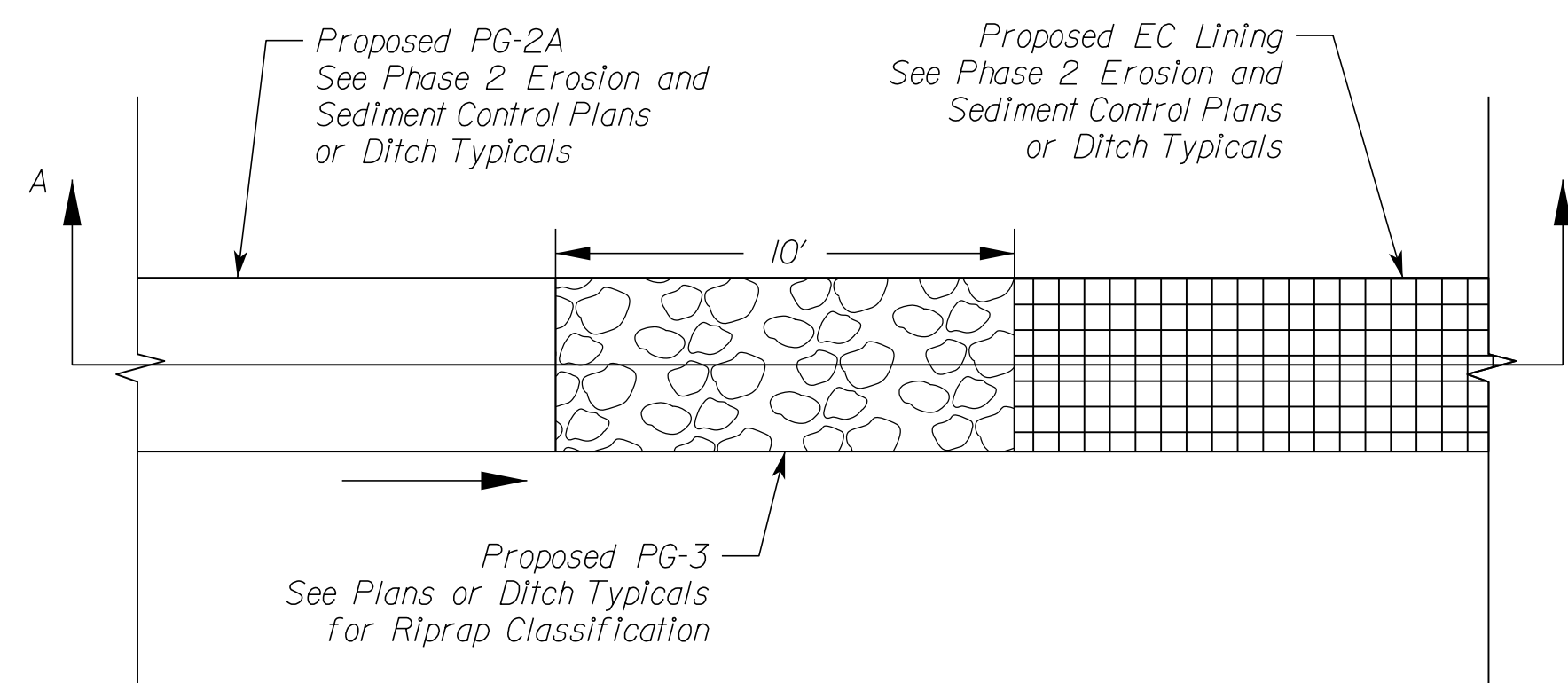
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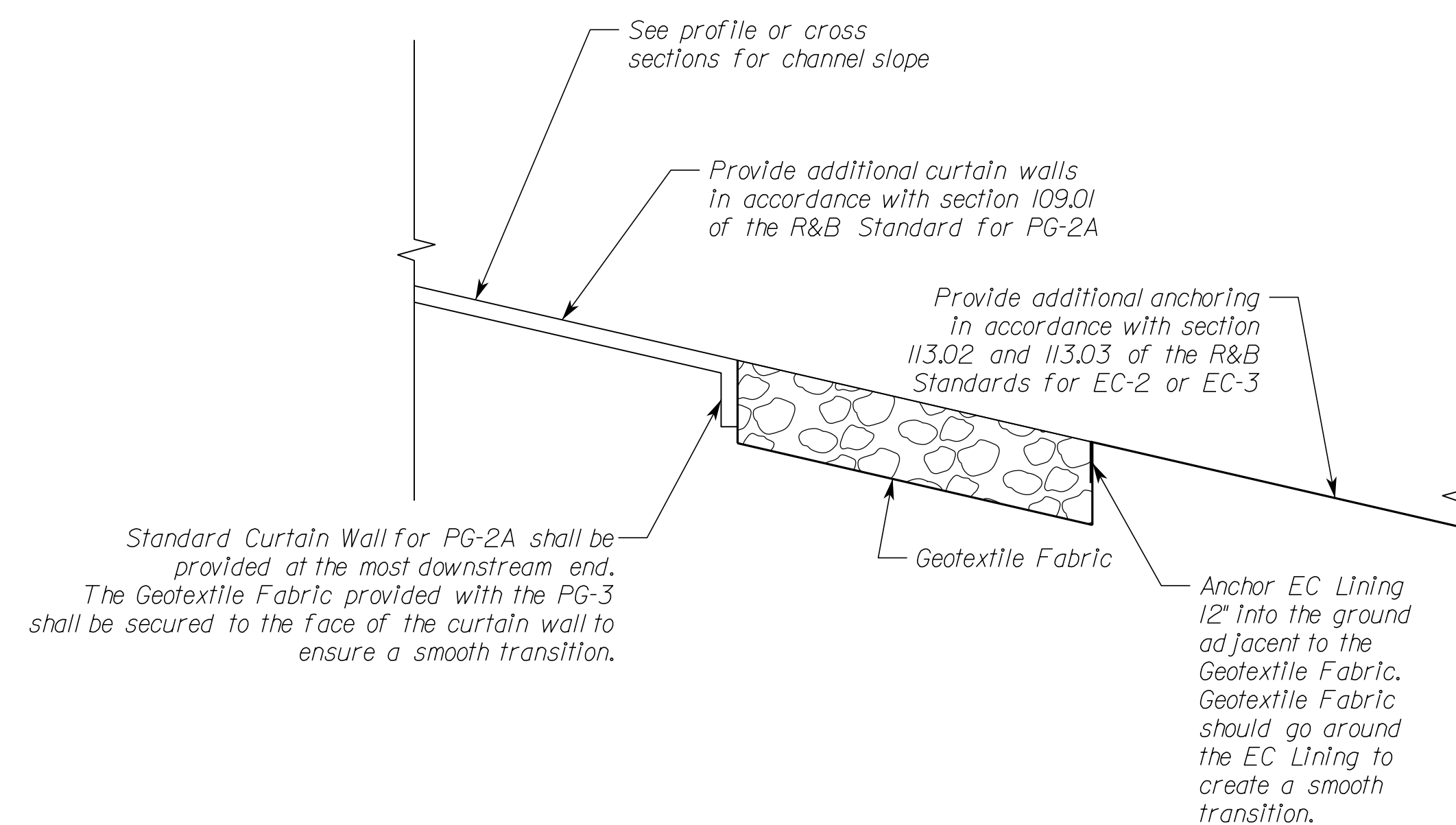
Rinker Design Assoc., P.C.  
Manassas, Virginia  
(HYDRAULICS ENGINEER)

REVISED	STATE	ROUTE	STATE	VDOT PROJECT NO.	SHEET NO.
	VA.	495		0495-029-419 C501 RW201	2F(1) AREA 3

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

10/16/2022

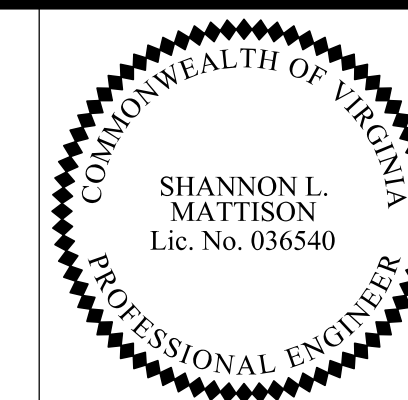
VDOT PROJECT NO. 0495-029-419	SHEET NO. 2F(1) AREA 3
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APPROVED FOR CONSTRUCTION



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-10K Detail

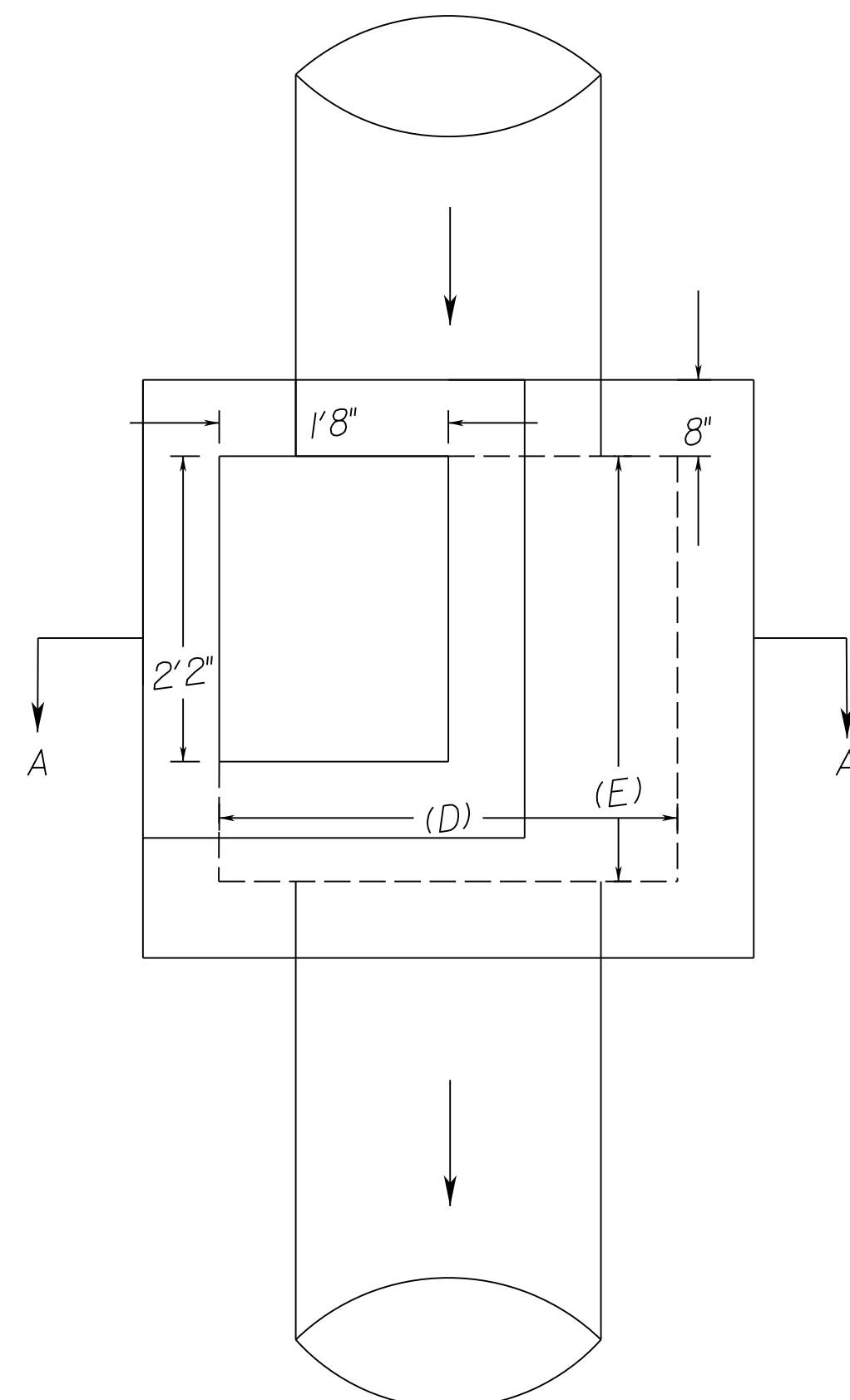


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(HYDRAULICS ENGINEER)

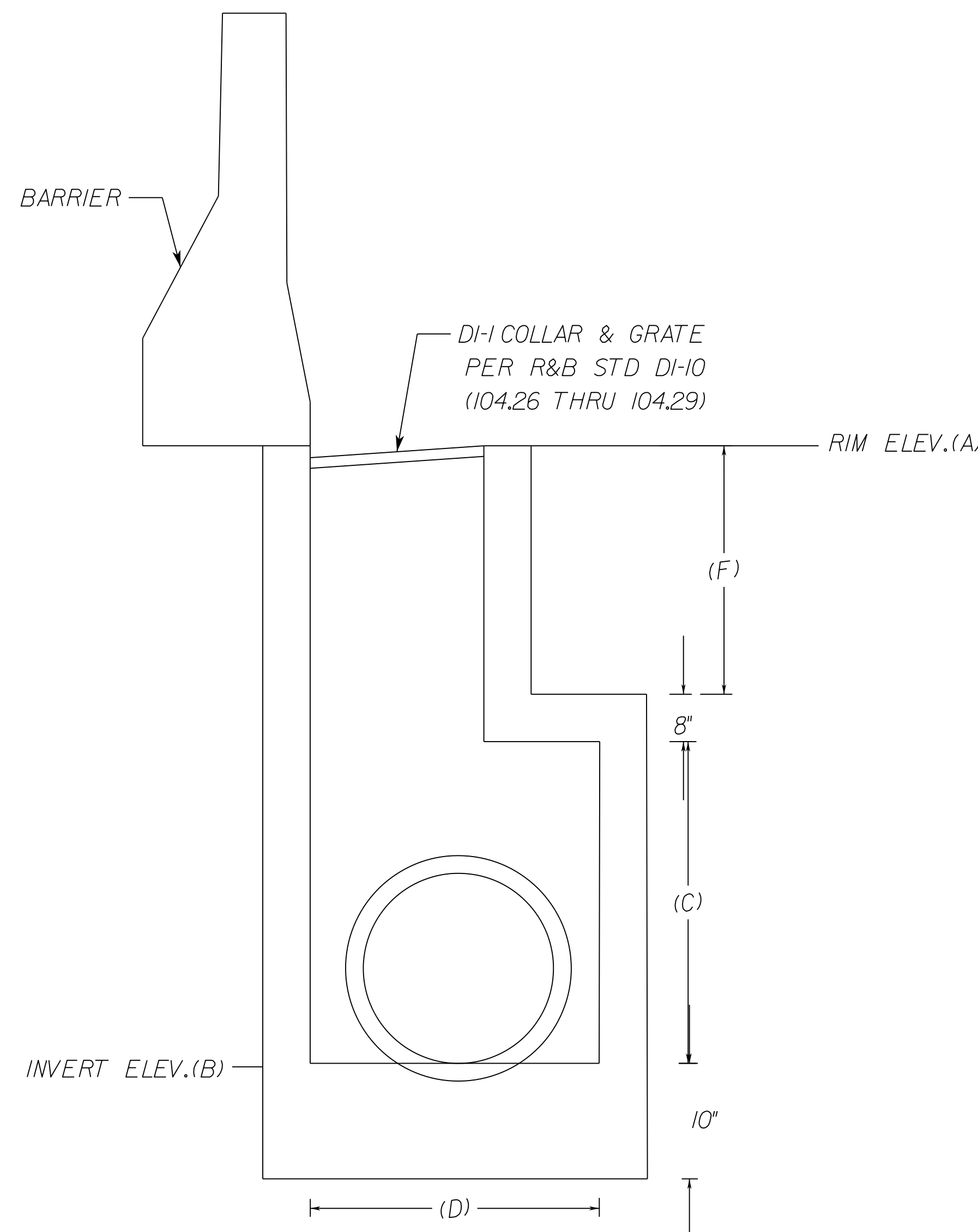
REVISED	STATE	ROUTE	STATE	VDOT PROJECT NO.	SHEET NO.
	VA.	495		0495-029-419 C501 RW201	2F(2) AREA 3

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

10/16/2022

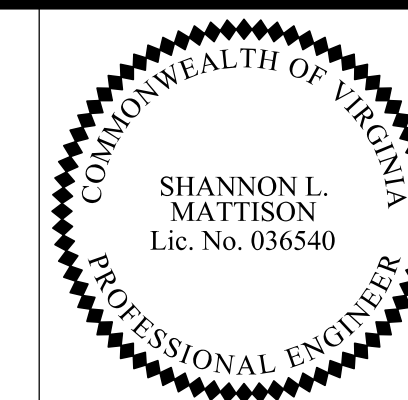
VDOT PROJECT NO. 0495-029-419	SHEET NO. 2F(2) AREA 3
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APPROVED FOR CONSTRUCTION



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\_Accumark - Michael Taylor, LS (703) 635-3060, 12/2021

# Modified DI-10K Dimensions



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Manassas, Virginia  
(HYDRAULICS ENGINEER)

REVISED	STATE		STATE	SHEET NO.
	STATE	ROUTE	VDOT PROJECT NO.	
	VA.	495	0495-029-419 C501 RW201	2F(3) AREA 3

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)
10-11	257.07	250.95	4'5"	3'8"	2'2"	1'
11-08	280.41	270.30	8'5"	3'8"	2'2"	1'0.5"
11-09	272.21	262.50	8'1"	3'8"	2'2"	11.5"
11-10	264.96	254.80	8'5"	3'8"	2'2"	1'1"
11-31	288.50	282.00	5'1"	3'1"	2'2"	9"
13-11	291.20	280.80	8'11"	3'8"	2'2"	2'10"
13-12	284.93	277.00	3'10"	3'8"	2'2"	3'7"
13-32	289.27	278.15	4'7"	1'8"	4'10"	5'10"
13-37	288.76	277.95	9'3"	4'10"	4'10"	10.5"
13-55	286.03	273.40	4'2"	3'9"	2'2"	7'9"
13-59	288.89	274.80	3'6"	3'10"	2'2"	9'11"
14-12	269.70	259.30	8'1"	5'5"	2'2"	1'7.5"
14-13	264.77	255.00	7'10"	5'7"	2'2"	1'3.5"
14-16	282.85	270.80	5'	4'4"	2'2"	6'4.5"
14-20	279.44	269.00	4'1"	4'7"	2'2"	5'8"

NOVA DISTRICT

FOR DETAIL PURPOSES ONLY  
CONTRACTOR SHALL PROVIDE SHOP DRAWINGS  
WITH STRUCTURAL ANALYSIS PRIOR TO ORDER  
AND/OR POUR.

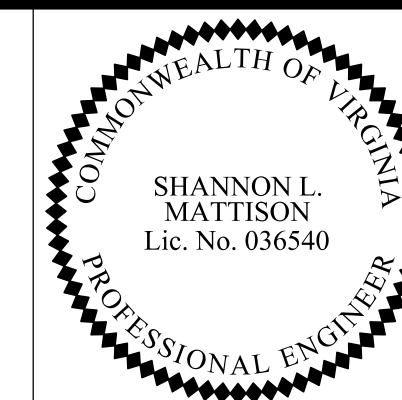
VDOT PROJECT NO. 0495-029-419	SHEET NO. 2F(3) AREA 3
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APPROVED FOR CONSTRUCTION



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 Accurark - Michael Taylor, LS, (703) 635-3060, 12/2021

# Modified DI-10 Detail

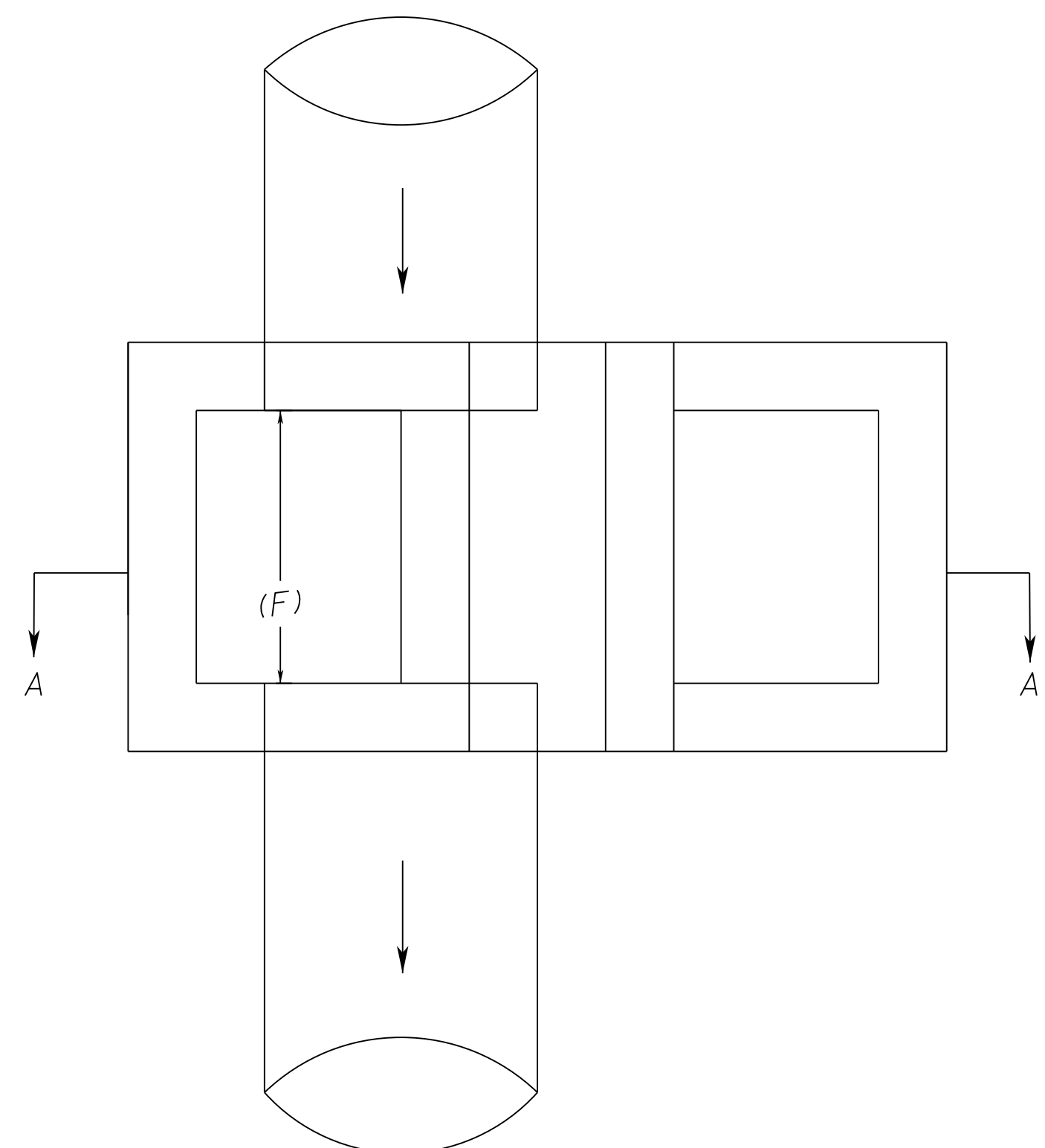


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(HYDRAULICS ENGINEER)

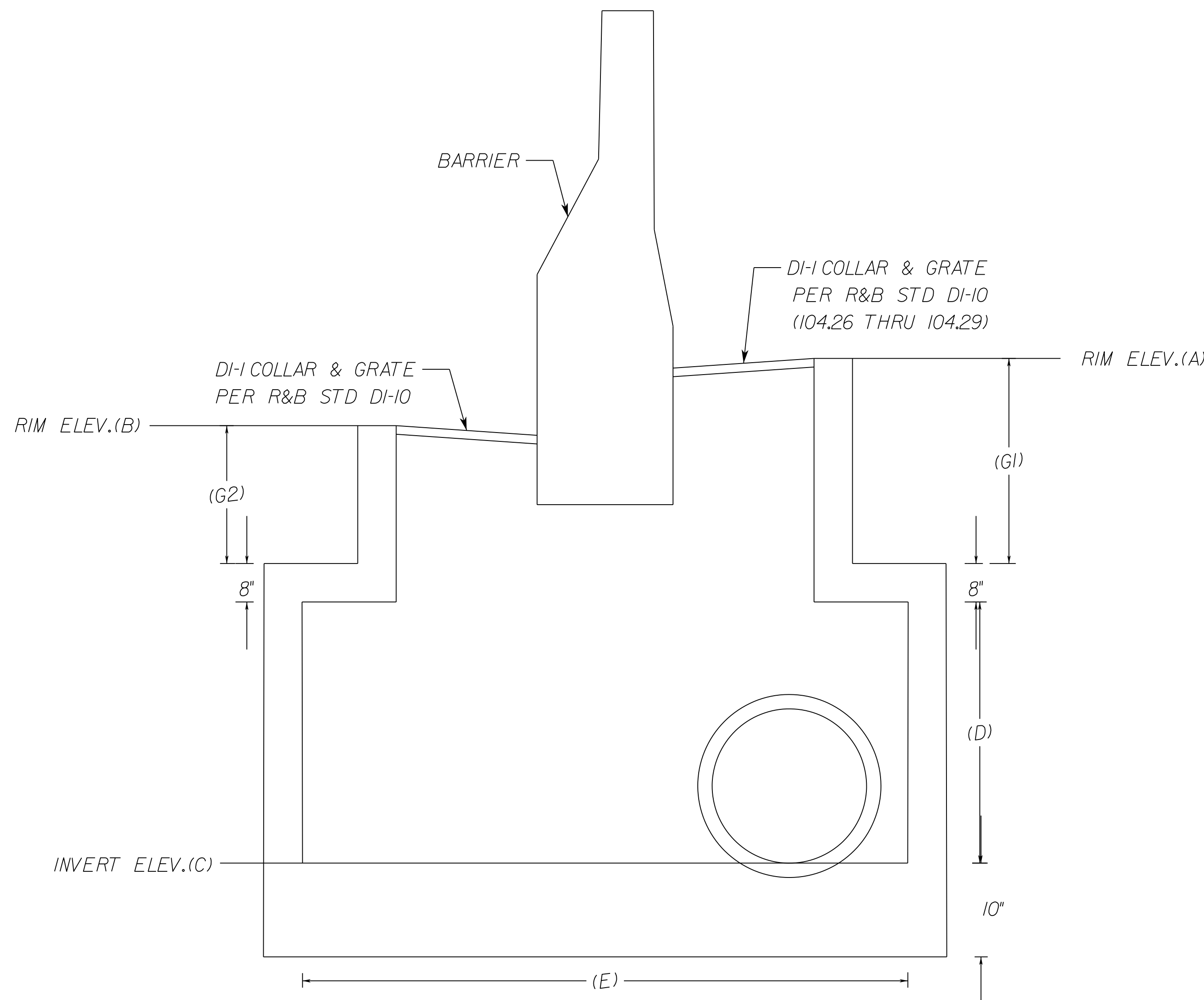
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	VA.	495		0495-029-419 C501 RW201	2F(4) AREA 3

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  
Double Throat and Chamber



Section A-A

Note: Dimensions to be provided for each structure.

Refer to table on Sheet 2F(5) for dimensions listed, and plan sheets 10 through 14 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  
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AND/OR POUR.

NOVA DISTRICT

10/16/2022

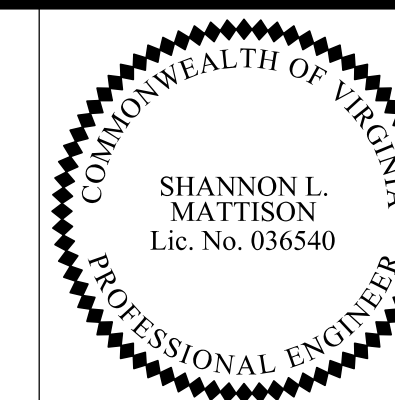
VDOT PROJECT NO. 0495-029-419	SHEET NO. 2F(4) AREA 3
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APPROVED FOR CONSTRUCTION



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 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		STATE	SHEET NO.
	STATE	ROUTE	VDOT PROJECT NO.	
	VA.	495	0495-029-419 C501 RW201	2F(5) AREA 3

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	NB Rim Elev.	SB Rim Elev.	Invert Elev.	Box Height	Box Width	Box Length	Height to Rim	Height to Rim
	(A)	(B)	(C)	(D)	(E)	(F)	(G1)	(G2)
13-38	284.49	284.27	275.15	5'6"	9'	2'2"	3'2"	2'11.5"
14-10	279.89	279.52	268.05	9'10"	9'6"	2'2"	1'0"	11.5"
14-11	276.08	274.22	263.60	7'5"	10'2"	2'2"	4'5"	2'6.5"

NOVA DISTRICT

FOR DETAIL PURPOSES ONLY  
CONTRACTOR SHALL PROVIDE SHOP DRAWINGS  
WITH STRUCTURAL ANALYSIS PRIOR TO ORDER  
AND/OR POUR.

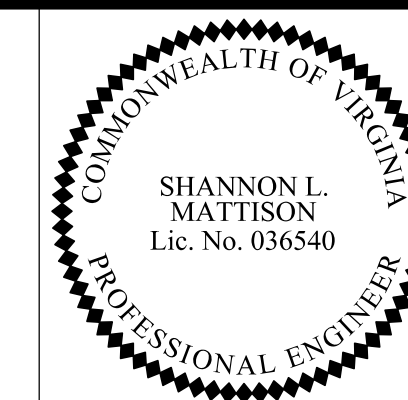
VDOT PROJECT NO. 0495-029-419	SHEET NO. 2F(5) AREA 3
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APPROVED FOR CONSTRUCTION



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 Jakomlitch, P.E. (703) 849-0651  
SUBSURFACE UTILITY BY, DATE Accurark - Michael Taylor, LS (703) 635-3060, 12/2021

# Modified DI-10H Details

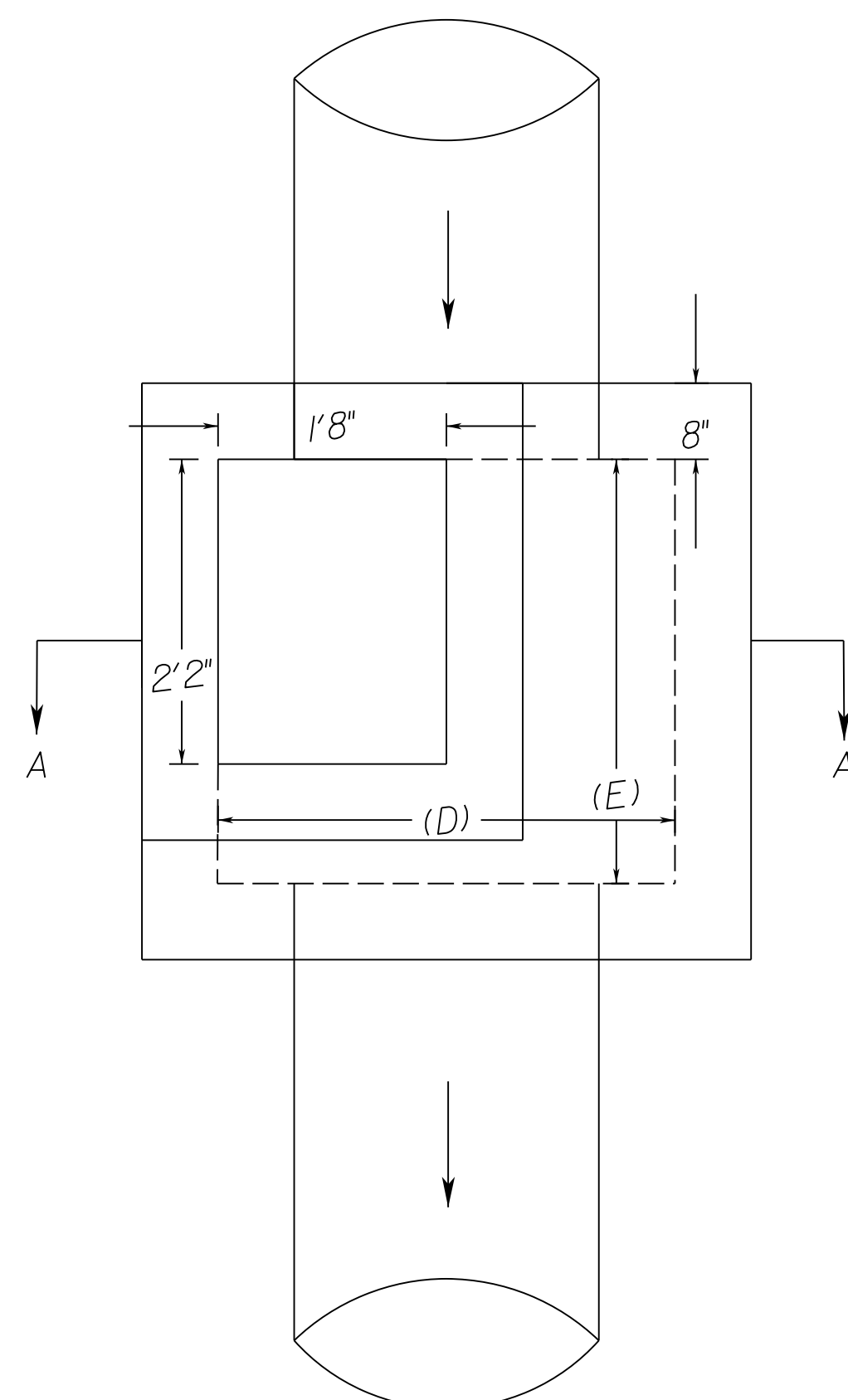


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(HYDRAULICS ENGINEER)

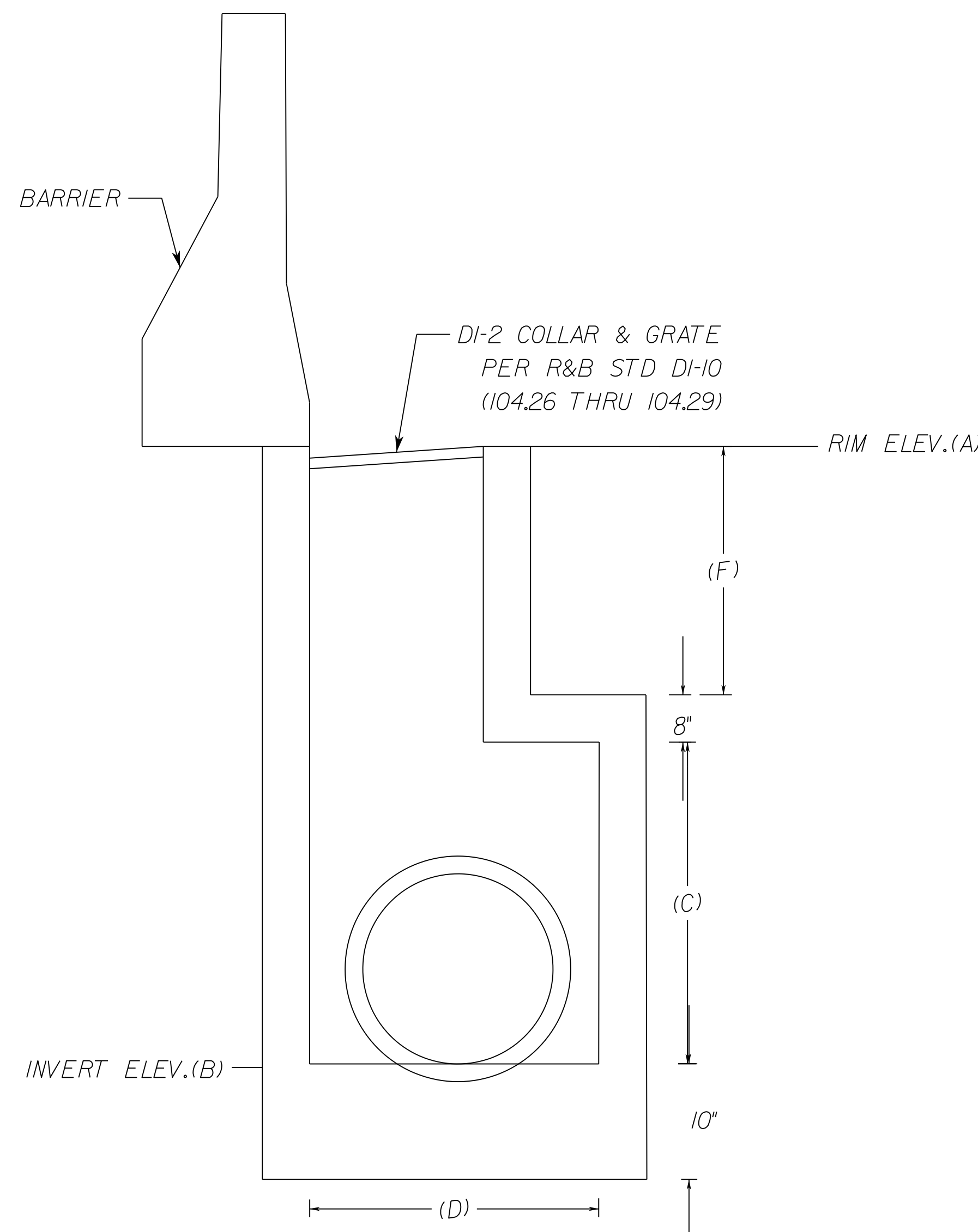
REVISED	STATE	ROUTE	STATE	VDOT PROJECT NO.	SHEET NO.
	VA.	495		0495-029-419 C501 RW201	2F(6) AREA 3

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

Str. Number	Rim Elev.	Invert Elev.	Box Height	Box Width	Box Length	Height to Rim
	(A)	(B)	(C)	(D)	(E)	(F)
12-04	304.65	295.90	3'1"	3'	47"	5'
12-23	304.87	291.80	11'2"	4'5"	3'	1'2.5"

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.

SCALE 0 10' 20'	VDOT PROJECT NO. 0495-029-419	SHEET NO. 2F(6) AREA 3
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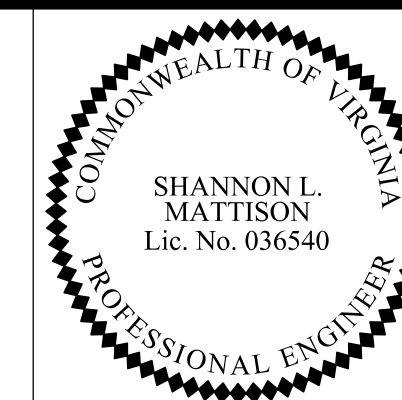
APPROVED FOR CONSTRUCTION

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

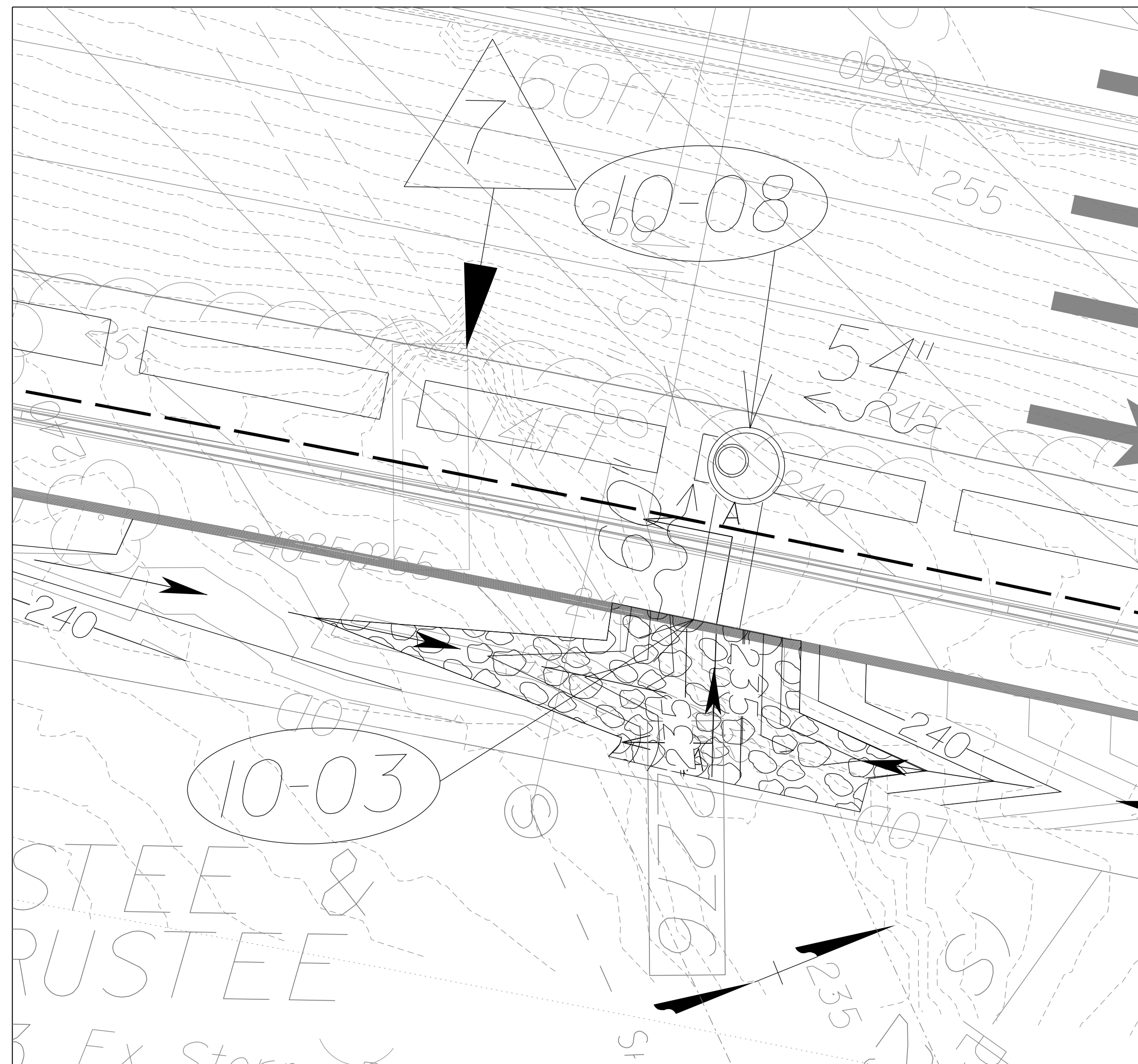
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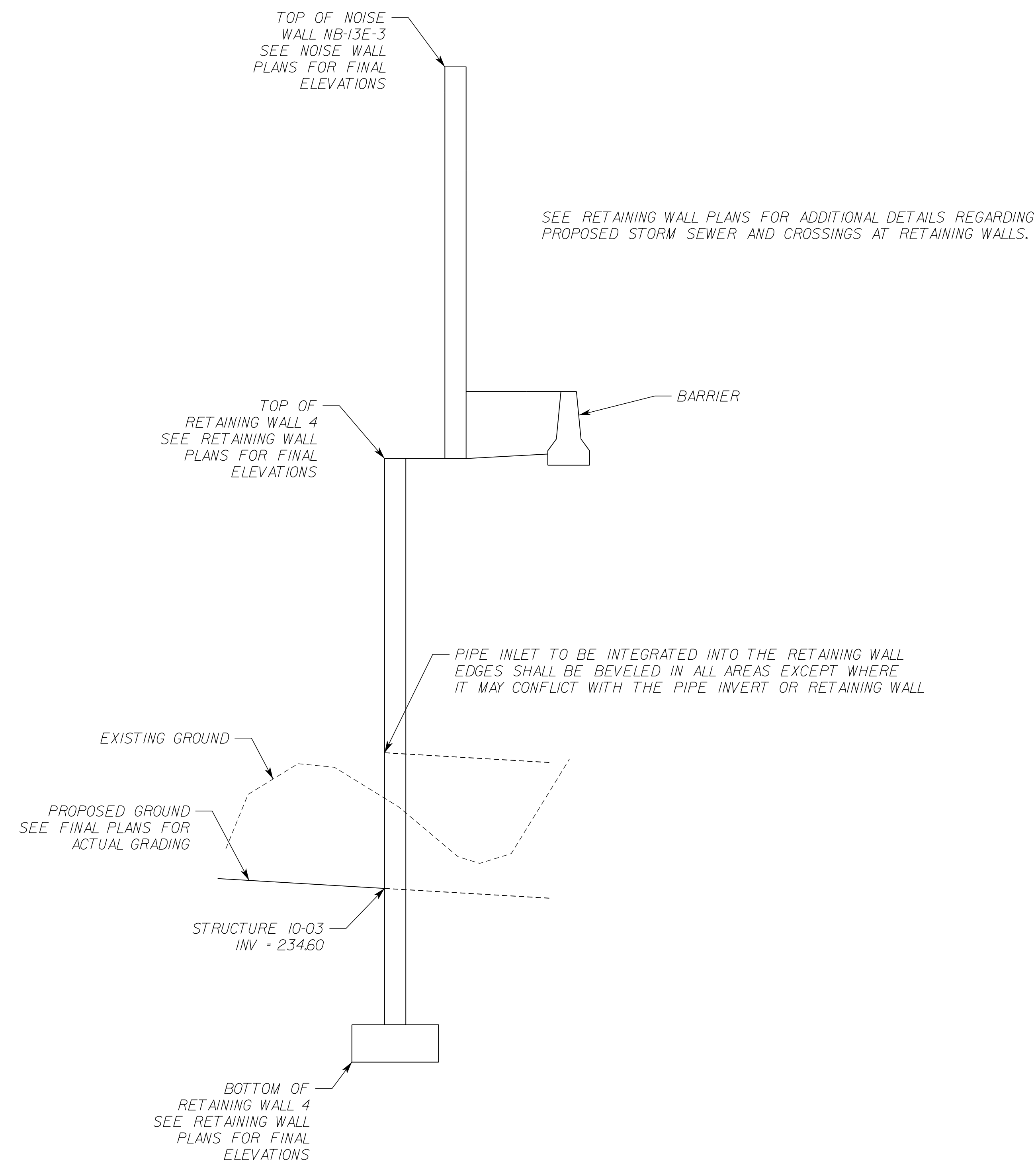
Rinker Design Assoc., P.C.  
Manassas, Virginia  
(HYDRAULICS ENGINEER)

REVISED	STATE	ROUTE	STATE	VDOT PROJECT NO.	SHEET NO.
	VA.	495		0495-029-419 C501 RW201	2F(7) AREA 3

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



INSET



SECTION A-A  
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(7) AREA 3
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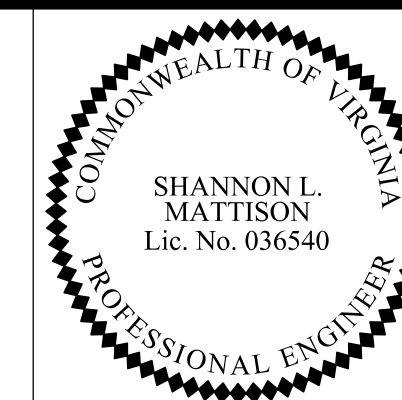
APPROVED FOR CONSTRUCTION

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  
Dewberry - Ron Jakomlitch, PE, (703) 849-0651  
SUBSURFACE UTILITY BY, DATE Accurmark - Michael Taylor, LS, (703) 635-3060, 12/2021

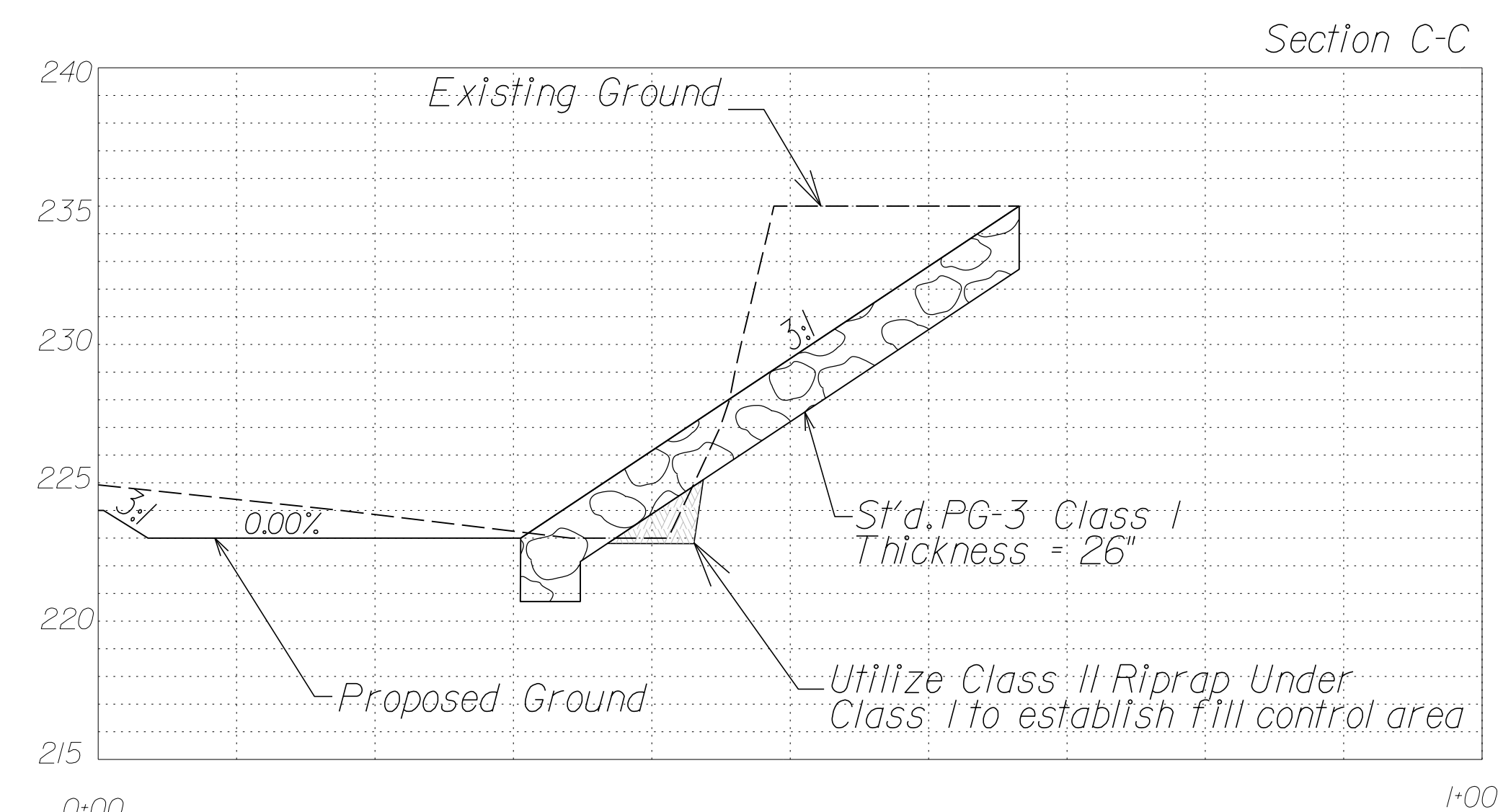
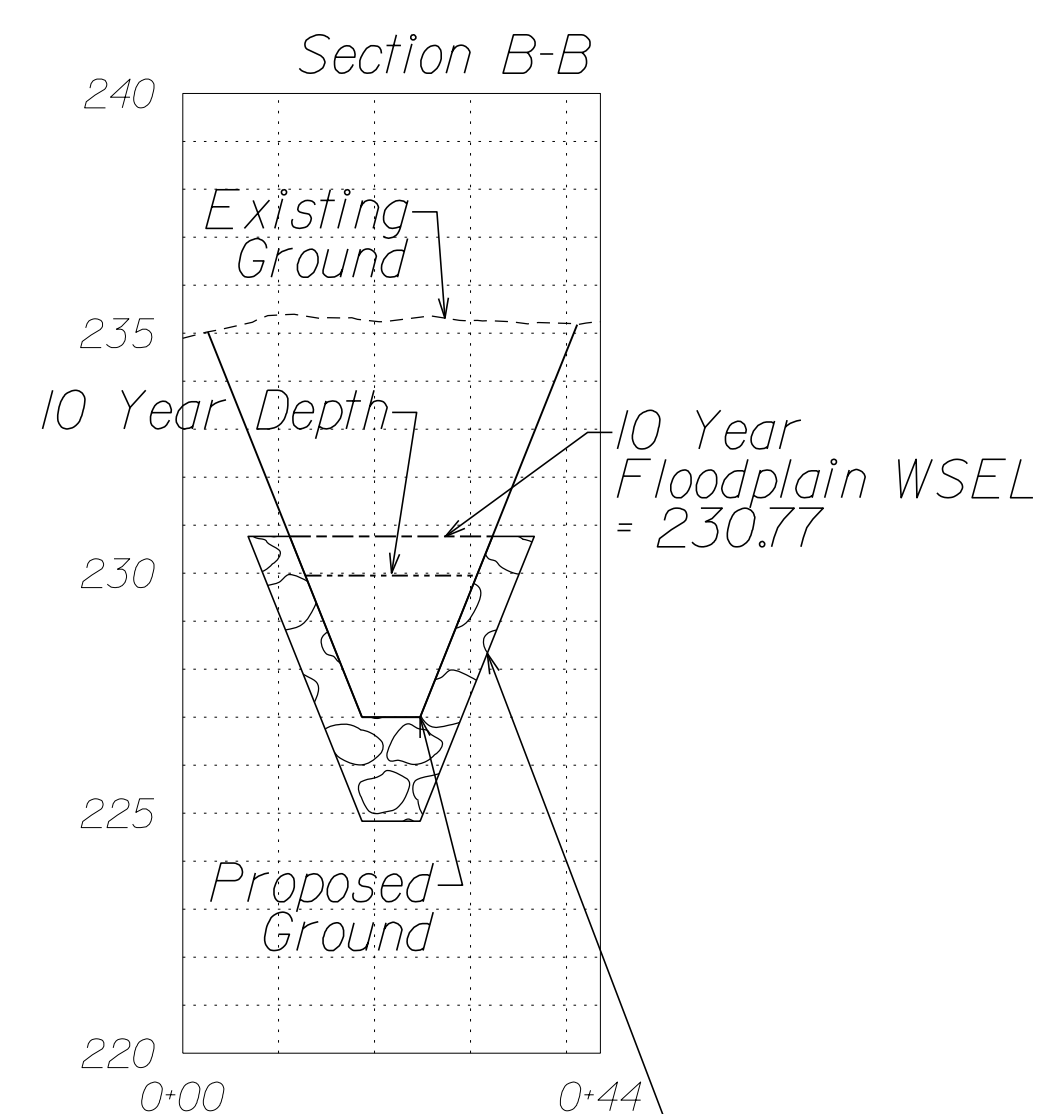
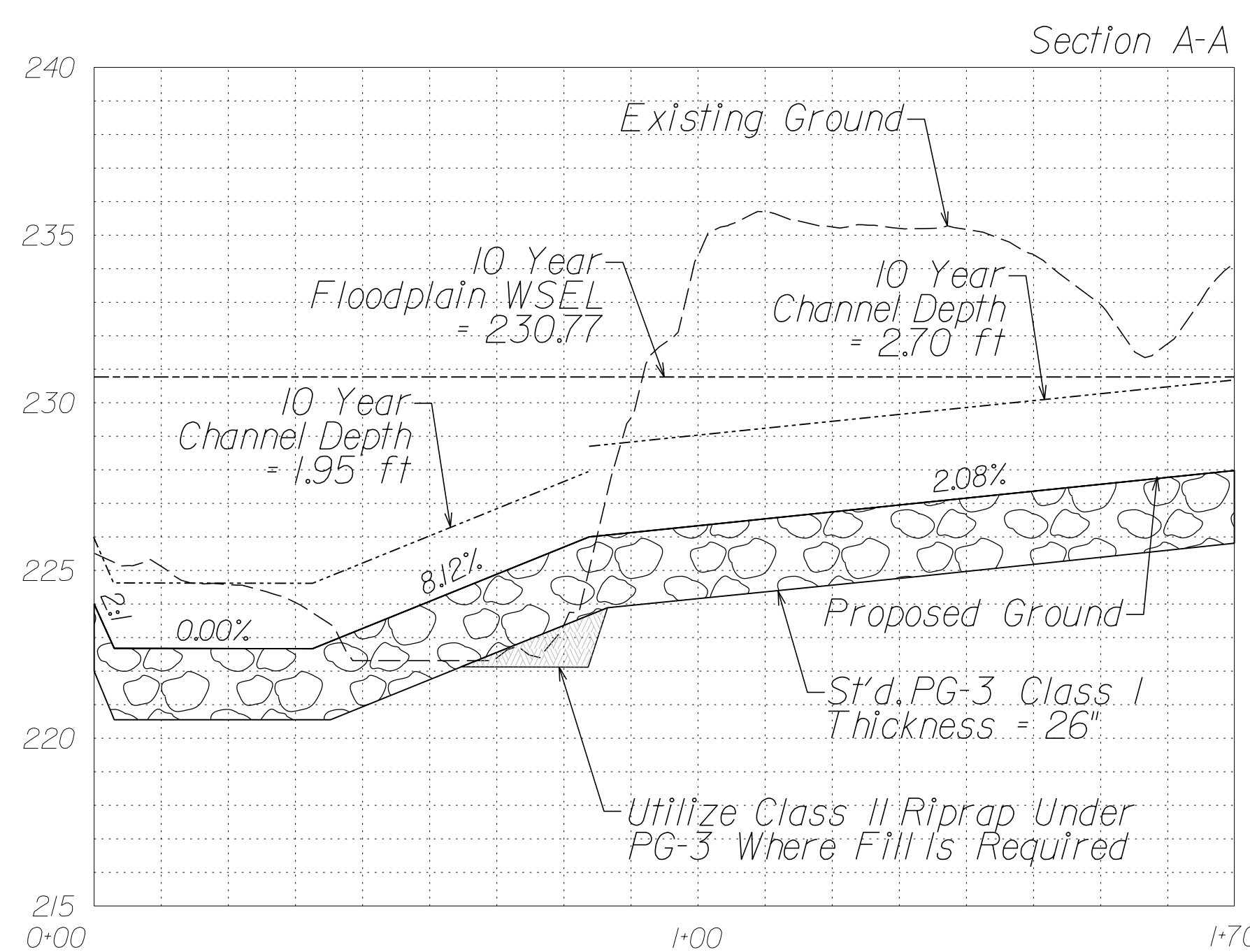
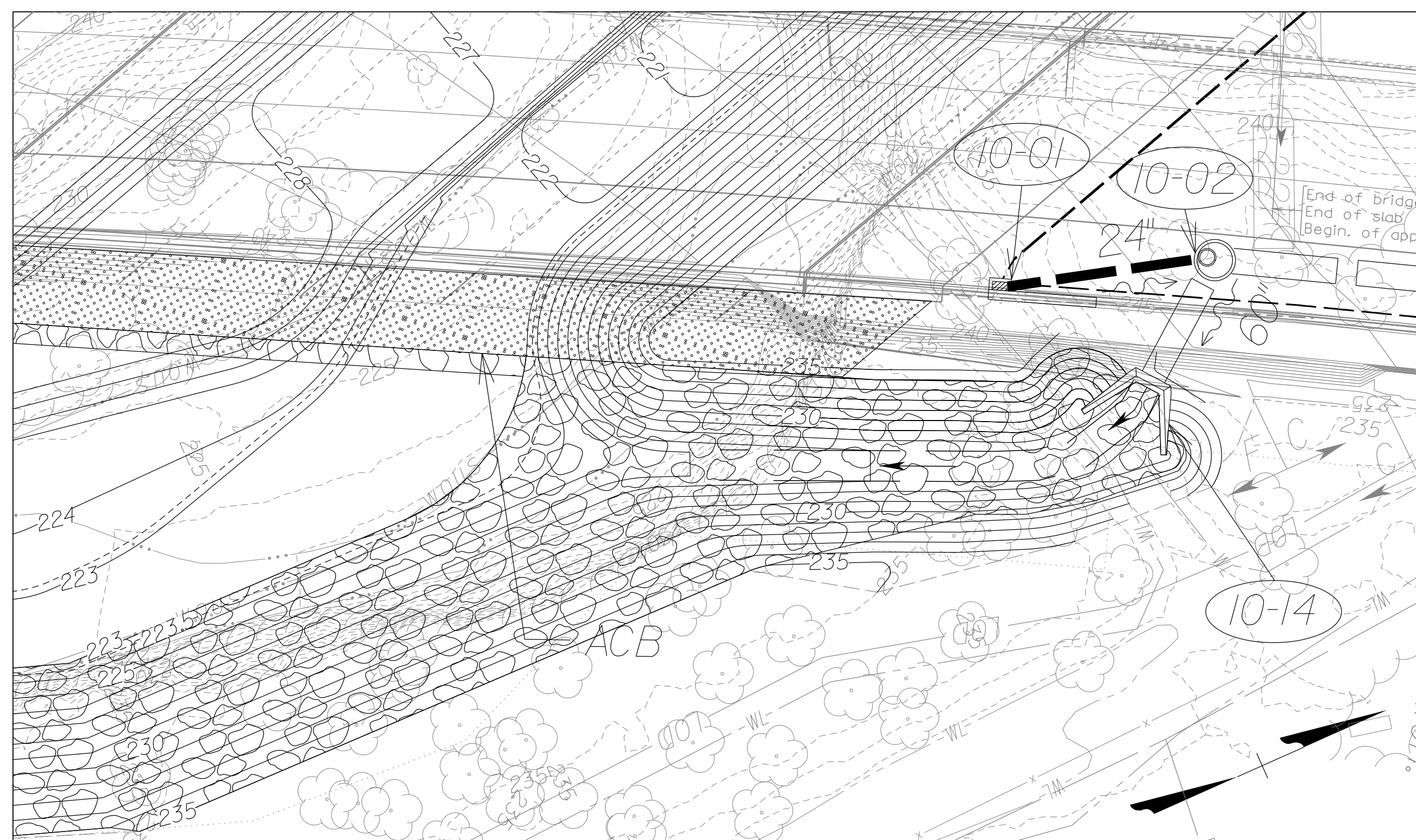
# Channel A3-02



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(8) AREA 3

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



PG-3 riprap shall extend to, at minimum, the 10 year floodplain WSEL in locations where it is higher than the 10 year channel depth. See plan view for approximate riprap extent.



VDOT PROJECT NO.  
0495-029-419  
SHEET NO.  
2F(8)  
AREA 3

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  
Dewberry - Ron Jakomlitch, PE, (703) 849-0651  
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	26 AREA 3

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

## HYDROLOGIC AND HYDRAULIC DATA SHEET - A3

### HYDROLOGIC DATA

The data presented herein was statistically derived by empirical methods and from field observations. It is presented as an estimate of the hydraulic performance of these facilities during the passage of actual flood events.

1. Estimated 100 year frequency flood data (unless otherwise noted). This magnitude of flooding may pass through the proposed facility or it may obtain the necessary hydraulic conveyance by partial inundation of roadways and/or partial by pass of the facility.

2. Specified frequency flood data. It is anticipated that this magnitude of flooding will be conveyed through the proposed hydraulic facility under estimated conditions which satisfy the design criteria applicable to the site.

3. This data was obtained from observations by persons familiar with the area and/or official records combined with an evaluation by empirical methods. The reliability of this data is relative to the accuracy of the source. A future flood of the same magnitude may achieve a significantly different stage elevation from that shown due to changes in the physical characteristics of the watershed.

FIELD INSPECTION STAGE <input type="checkbox"/>					BASE FLOOD		DESIGN FLOOD				OVERTOPPING FLOOD		HISTORICAL DATA		
FINAL DESIGN STAGE <input checked="" type="checkbox"/>					1.		2.				3.				
Sheet No.	Station (Outlet)	Stream Name	Drainage Area	Structure Size	Discharge (C.F.S.)	Stage Elevation (Ft.)	Discharge (C.F.S.)	Estimated Exceedance Probability %	Stage Elevation (Ft.)	Stage Elevation (Ft.)	Estimated Exceedance Probability %	Date	Stage Elevation (Ft.)	Estimated Exceedance Probability %	
10	495XL SB-8 Sta. 219+00	Scott Run	5.26 sq. mi.	Bridge	4980.00	233.90	2600.00	10%	230.76	255'	<0.2%	N/A	N/A	N/A	
REMARKS															
Source of Information and Other Related Data															
Water surface elevations taken at cross section immediately upstream of proposed bridge/culvert.															

NOVA DISTRICT

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

# Underdrain Summary

REVISED	STATE		STATE		SHEET NO.
	STATE	ROUTE	VDOT PROJECT NO.	VDOT PROJECT NO.	
	VA.	495	0495-029-419 C501 RW201		2H AREA 3

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

For any proposed underdrain terminus which is noted to tie to the existing system, the Contractor is responsible for verifying that the underdrain does not exceed allowable lengths, the underdrain does not decrease in size (i.e. 6" to 4"), and the underdrain has positive flow. If these items cannot be met, the Contractor is responsible for providing an appropriately-spaced UD outlet which conforms to VDOT Standard requirements.

See Sheet 2F for additional information on underdrain placement and detail on modified UD-4

\*\*Contractor to evaluate and identify if underdrain is present in the existing median. If existing underdrain is in place, contractor can tie to existing in lieu of crossing the travel lanes and tying to structure 130-07.  
 \*\*\*See Bridge Plans for additional information on crossdrain/underdrain placement and needs.

BASELINE	STATION		LOCATION	UD-4 4" (LF)	Mod. UD-4 6" (LF)	CD-1 (LF)	CD-2 (LF)	OUTLET PIPE (LF)	EW-12 2'	REMARKS
	FROM	TO								
495XL_NB	616-29	615-00	L/R	3			170			Tie to UD-4 A2
495XL_NB	618-65	617-53	L/R				157	5		Tie to 10-01
495XL_NB	619-16	617-54	Right	159						Tie to 10-01
495XL_NB	621-35	619-18	Right	212						Tie to 10-04
495XL_NB	624-25	621-38	Right	282						Tie to 10-05
495XL_NB	625-60	624-28	Right					96		Tie to 11-04
495XL_NB	626-69	624-28	Right	236						Tie to 11-04
495XL_NB	629-65	626-71	Right	288						Tie to 11-03
495XL_NB	631-45	629-67	Right	178						Tie to 11-02
495XL_NB	634-22	633-41	Left	72					23	Tie to 11-31
495XL_NB	634-48	631-48	Right	300						Tie to 11-01
495XL_NB	635-27	634-24	Left	103						Tie to 11-06
495XL_NB	636-78	635-29	Left	149						Tie to 11-23
495XL_NB	637-00	634-53	Right	248						Tie to 11-14
495XL_NB	639-04	636-80	Left	223						Tie to 11-05
495XL_NB	641-21	639-07	Left	214						Tie to 12-01
495XL_NB	643-54	645-86	Left	231						Tie to 12-19
495XL_NB	643-54	641-23	Left	230						Tie to 12-08
495XL_NB	645-89	647-68	Left	178						Tie to 12-20
495XL_NB	647-70	649-69	Left	199						Tie to 12-21
495XL_NB	649-71	651-60	Left	187						Tie to 13-19
495XL_NB	650-00	651-31	Right	131					7	Tie to 12-18
495XL_NB	651-32	654-00	Right	270					10	Tie to 13-01
495XL_NB	651-62	653-66	Left	203						Tie to 13-21
495XL_NB	653-68	656-56	Left	286						Tie to 13-34
495XL_NB	654-02	657-34	Right	333				9		Tie to 13-06
495XL_NB	656-58	659-48	Left	289						Tie to 13-36
495XL_NB	657-34	660-16	Right	281					10	Tie to 13-07
495XL_NB	659-50	661-74	Left	223						Tie to 13-37
495XL_NB	660-17	661-62	Right	140						Tie to 13-09
495XL_NB	661-76	664-73	Left	297						Tie to 13-38
495XL_NB	664-76	667-50	Left	242				34		Tie to 14-10
495XL_NB	666-76	670-35	Right	348						Tie to 14-06
495XL_NB	667-53	669-88	Left	238						Tie to 14-11
495XL_NB	670-38	672-30	Right	183						Tie to 14-08
495XL_NB	669-90	671-88	Left	198				10		Tie to 14-12
495XL_NB	671-89	674-32	Left	245				18		Tie to 14-13
495XL_NB	672-32	675-00	Right	255						Tie to 15-05
495XL_SB	674-34	675-00	Left	67						Tie to 15-20
495XL_SB	216-55	215-50	Right	105						Tie to UD-4 A2
495XL_SB	217-98	216-59	L/R	24			162			Tie to 10-17
495XL_SB	220-40	219-29	Right	110						Tie to 10-09
495XL_SB	220-27	219-28	L/R				146	7		Tie to 10-09
495XL_SB	222-62	220-42	Right	219						Tie to 10-10
495XL_SB	225-55	222-64	Right	290						Tie to 10-11
495XL_SB	228-21	225-57	Right	262						Tie to 11-10
495XL_SB	231-00	228-23	Right	276						Tie to 11-09
495XL_SB	232-40	231-02	Right	138						Tie to 11-08
495XL_SB	233-65	231-01	Left	261				7		Tie to 11-22, UD-4 along MSE
495XL_SB	234-04	232-42	Right	162						Tie to 11-07
495XL_SB	235-02	234-06	Right	96						Tie to 11-31
495XL_SB	335-91	233-66	Left	223				7		Tie to 11-27, UD-4 along MSE
495XL_SB	237-03	235-92	Left	111				7		Tie to 11-17, UD-4 along MSE
495XL_SB	237-59	234-88	Right	253				26		Tie to 11-06
495XL_SB	237-99	237-07	Left	46				46		Tie to 11-15
495XL_SB	239-50	237-44	Right	188				27		Tie to 11-05
495XL_SB	240-00	237-07	Left	291						Tie to 11-15
495XL_SB	244-19	240-03	Left		407					Tie to 12-15
495XL_SB	247-75	249-03	Left	120				9		Tie to 12-28
495XL_SB	250-12	250-19	Right	7						Tie to 12-22
495XL_SB	249-03	251-57	Left	244				8		Tie to 12-29
495XL_SB	250-22	252-07	Right	186						Tie to 13-20
495XL_SB	251-53	254-12	Left	249				9		Tie to 13-24
495XL_SB	252-10	254-11	Right	201						Tie to 13-22
495XL_SB	254-13	256-97	Right	285						Tie to 13-33
495XL_SB	256-80	259-35	Left	247				6		Tie to 13-30
495XL_SB	256-99	259-85	Right	287						Tie to 13-35
495XL_SB	259-33	262-09	Left	267				6		Tie to 13-31
495XL_SB	259-87	262-09	Right	222						Tie to 13-32
495XL_SB	262-09	267-75	Left		557					Tie to 14-14
495XL_SB	262-11	265-07	Right	297						Tie to 13-38
495XL_SB	265-91	267-84	Right	193						Tie to 14-10
495XL_SB	267-88	270-27	Right	238						Tie to 14-11
495XL_SB	270-29	272-34	Right	201						Tie to 14-12
495XL_SB	272-36	274-89	Right	248						Tie to 14-13
495XL_SB	274-92	276-50	Right	155						Tie to 15-21
495XL_SB to GWMP_RMP_G2I	254-07	5-20	Left	294				10		Tie to 13-27

BASELINE	STATION		LOCATION	UD-4 4" (LF)	Mod. UD-4 6" (LF)	CD-1 (LF)	CD-2 (LF)	OUTLET PIPE (LF)	EW-12 2'	REMARKS
	FROM	TO								
BH_RD	33-80	36-15	Left	225				22	1	Tie to EW-12
BH_RD	36-03	38-00	Left	197						Tie to 15-03
GTP	28-18	29-66	Left	148				2		Tie to 130-02
GTP	31-66	34-19	Left	248				2		Tie to 130-07
GTP	20-37	18-38	Right	197				2		Tie to 13N-08
GTP	20-39	18-54	Center	185						Tie to 13N-01
GTP	20-41	18-47	Left	191				20	1	Tie to EW-12
GTP	21-61	20-38	Right	122				2		Tie to 13N-03
GTP	21-67	18-53	Center	309				8		Tie to 13N-01
GTP	21-67	20-43	Center	125						Tie to 13N-06
GTP	22-09	20-40	Left	195				4		Tie to 13N-07
GTP	22-87	22-68	Left	42				36	1	Tie to EW-12
GTP	22-90	22-83	Right				38	5		Tie to 13-39
GTP	22-90	22-83	Left				41	6		Tie to 13-40
GTP	26-30	26-36	R/L				82	6		Tie CD-2 to 13-05
GTP	27-03	29-74	Center	267				10		Tie to 130-01
GTP	27-03	29-73	Center	272						Tie to 130-01
GTP	27-10	28-18	Left	122				2		Tie to 13-13
GTP	27-25	28-55	Right	144				2		Tie to 13-16
GTP	28-54	30-26	Right	203				71		Tie to 130-10
GTP	29-65	29-91	Left	90				44	1	Tie to EW-12
GTP	30-75	31-66	Left	92				2		Tie to 130-03
GTP	30-75	30-70	Left	41				12	1	Tie to EW-12
GTP	30-91	31-66	Right	104				3		Tie to 130-04
GTP	31-27	34-19	Center	293				43		**
GTP	31-64	32-89	Right	125				2		Tie to 130-05
GTP	32-93	34-19	Center	127						Tie to 130-07
GTP_RMP_NE	10-71	13-48	Left	293				14	1	Tie to EW-12
GTP_RMP_NE	11-05	11-48	Right	42				11	1	Tie to EW-12
GTP_RMP_NE	11-50	13-39	Right	187				10		Tie to 13-66, UD-4 along MSE
GTP_RMP_NE	13-40	16-08	Right	266				10		Tie to 13-11, UD-4 along MSE
GTP_RMP_NE	13-48	16-08	Left	258				33		Tie to 13-11
GTP_RMP_NE	16-64	19-07	Right	243						Tie to 13-12
GTP_RMP_NE	19-09	21-77	Right	266						Tie to 14-01
GTP_RMP_NW	5-81	7-21	Right	139						Tie to 13-43
GTP_RMP_NW	5-81	5-61	Right	42				37	1	Tie to EW-12
GTP_RMP_NW	5-92	7-53	Left	161						Tie to 13-45
GTP_RMP_NW	7-77	7-55	Left	23						Tie to 13-45,***
GTP_RMP_NW	9-31	11-99	Left	261				14		Tie to 13-57, UD-4 along MSE,***
GTP_RMP_NW	12-01	14-91	Right	298						Tie to 13-55, Portion of UD-4 along MSE
GTP_RMP_NW	12-72	13-45	Left	72						Tie to 13-59
GTP_RMP_NW	14-93	16-67	Right	174						Tie to 14-15
GTP_RMP_NW	15-81	16-67	L/R					52		Tie to 14-15
GTP_RMP_NW	16-71	17-63	Right	92						Tie to 14-16
GTP_RMP_NW	17-65	18-89	Right	124						Tie to 14-19
GTP_RMP_NW	18-93	20-18	Right	125						Tie to 14-20
GTP_RMP_SE	14-23	15-70	Right	131						Tie to 12-16
GTP_RMP_SE	14-25	15-71	Left	112						Tie to 12-17
GTP_RMP_SE	15-01	15-01	Right					19		Tie to UD-4
GTP_RMP_SE	15-01	15-01	L/R					5		Tie to UD-4
GTP_RMP_SE	17-95	15-73	Right	208						Tie to 12-16
GTP_RMP_SE	19-13	15-73	Left	314				39		Tie to 12-17
GTP_RMP_SE	21-13	17-86	Right	324						

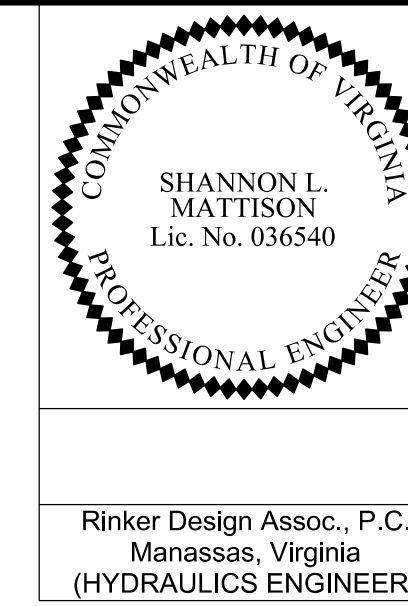






PROJECT MANAGER\_VDOT - RitaPal-Straub, PE, (703) 259-2362  
 SURVEYED BY, DATE\_RDA - Nicholas Kaugaulis, LS, (703) 334-0837, 12/2021  
 DESIGN BY\_RDA - Darrell Fischer, PE, (703) 334-0823  
 SUBSURFACE UTILITY BY, DATE\_Accumark - Michael Taylor, LS, (703) 635-3060, 12/2021

# Ditch Lining Typical Sections



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	2J AREA 3

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

Typical Ditch								
495XL NB	Station	to	Station	D* (ft)	B (ft)	X (ft)	Y (ft)	Lining
Right								
Ditch A3-03	621+10	to	620+25	0.3	0	2	2	EC-2 Type 1
Ditch A3-04	621+10	to	622+55	0.5	0	2	2	EC-2 Type 1
	622+55	to	622+89	0.5	0	2	2	PG-3 Ty.1 Cl. Al
Ditch A3-06	628+48	to	625+00	1.0	0	2	2	PG-2A Type E
	625+00	to	624+90	0.3	0	2	2	PG-3 Ty.1 Cl. Al
	624+90	to	623+00	0.3	0	2	2	EC-2 Type 1
	623+00	to	622+93	0.4	0	2	2	PG-3 Ty.1 Cl. Al
Ditch A3-08	628+48	to	631+46	1.0	0	2	2	PG-2A Type E
Ditch A3-12	638+50	to	637+29	0.4	0	2	2	EC-2 Type 1
Ditch A3-58	640+75	to	639+11	-	0	2	2	N/A
Ditch A3-59	643+25	to	640+85	0.3	0	2	2/6	EC-2 Type 1
Ditch A3-15	643+78	to	644+46	0.4	0	2	2	EC-2 Type 1
Ditch A3-22	649+44	to	651+30	0.8	0	2	2	EC-2 Type 1
Ditch A3-24	651+33	to	654+00	0.9	0	2	2	EC-2 Type 1
Ditch A3-53	654+38	to	656+60	0.5	0	2	2	EC-2 Type 1
	656+60	to	657+34	0.9	0	2	2	EC-2 Type 1
Ditch A3-25	654+85	to	654+00	1.0	0	2	2	PG-2A Type E
Ditch A3-33	655+89	to	656+60	1.0	0	2	2	PG-2A Type E
Ditch A3-35	657+34	to	658+34	0.5	0	2	2	EC-2 Type 1
Ditch A3-36	658+34	to	659+16	0.4	0	2	2	EC-2 Type 1
	659+16	to	660+14	0.8	0	2	2	EC-2 Type 1
Ditch A3-52	664+36	to	670+35	1.0	0	2	2	PG-2A Type E

Typical Ditch								
495XL SB	Station	to	Station	D* (ft)	B (ft)	X (ft)	Y (ft)	Lining
Left								
Ditch A3-21	249+07	to	251+00	1.0	0	2	2	EC-2 Type 1
	251+00	to	251+59	1.1	0	2	2	EC-2 Type 1
Ditch A3-26	251+61	to	254+13	1.0	0	2	2	EC-2 Type 1
Ditch A3-37	257+99	to	259+37	0.8	0	2	2	EC-2 Type 1
Ditch A3-44	259+37	to	259+59	0.4	0	2	2	EC-2 Type 1
	259+59	to	262+09	0.9	0	2	2/3	EC-2 Type 1
Ditch A3-51	262+12	to	263+72	0.7	0	2	3/5	EC-2 Type 1
	263+72	to	267+46	1.0	0	2	2	EC-2 Type 1
	267+46	to	267+75	0.8	0	2	2	EC-2 Type 4

Typical Ditch								
Balls Hill Trail	Station	to	Station	D* (ft)	B (ft)	X (ft)	Y (ft)	Lining
Left								
Ditch A3-60	11+00	to	13+00	0.7	0	3/2	3/2	EC-2 Type 1
Right								
Ditch A3-49	27+12	to	29+40	0.8	0	3	2	EC-2 Type 1

Typical Ditch								
Georgetown Pike	Station	to	Station	D* (ft)	B (ft)	X (ft)	Y (ft)	Lining
Left								
Ditch A3-65	21+76	to	21+70	0.1	0	2	2	PG-3 Ty.1 Cl. Al
	21+70	to	21+49	0.2	0	2	2	EC-2 Type 1
Ditch A3-31	31+37	to	31+91	0.1	0	2	20	EC-2 Type 1
Ditch A3-32	34+75	to	36+34	0.7	0	4	2	EC-2 Type 1
Right								
Ditch A3-54	22+91	to	23+17	1.0	0	2	2	PG-2A Type E

Typical Ditch								
Georgetown Pike Ramp NE	Station	to	Station	D* (ft)	B (ft)	X (ft)	Y (ft)	Lining
Right								
Ditch A3-34	12+09	to	16+05	1.0	0	2	2	EC-2 Type 1
Ditch A3-46	16+62	to	16+10	0.2	0	2	2	EC-2 Type 1
Ditch A3-47	19+37	to	16+62	1.0	0	2	2	PG-2A Type E

Typical Ditch								
Georgetown Pike Ramp NW	Station	to	Station	D* (ft)	B (ft)	X (ft)	Y (ft)	Lining
Left								
Ditch A3-42	5+38	to	8+56	0.8	0	2	2	EC-2 Type 1
	8+56	to	8+81	0.7	0	2	2	EC-2 Type 2

Typical Ditch								
Georgetown Pike Ramp SE	Station	to	Station	D* (ft)	B (ft)	X (ft)	Y (ft)	Lining
Right								
Ditch A3-16	12+25	to	10+72	0.7	0	2/3	2/3	EC-2 Type 1
Ditch A3-17	12+25	to	15+70	0.8	0	2/6	2	EC-2 Type 1
Ditch A3-23	20+80	to	15+73	0.7	0	2/6	2	EC-2 Type 1

Typical Ditch								
Georgetown Pike Ramp SW	Station	to	Station	D* (ft)	B (ft)	X (ft)	Y (ft)	Lining
Right								
Ditch A3-20	17+50	to	15+28	0.5	0	2	2	EC-2 Type 1
Ditch A3-27	21+09	to	19+25	0.5	0	2	2	EC-2 Type 1
	19+25	to	17+50	0.8	0	2	2	EC-2 Type 1

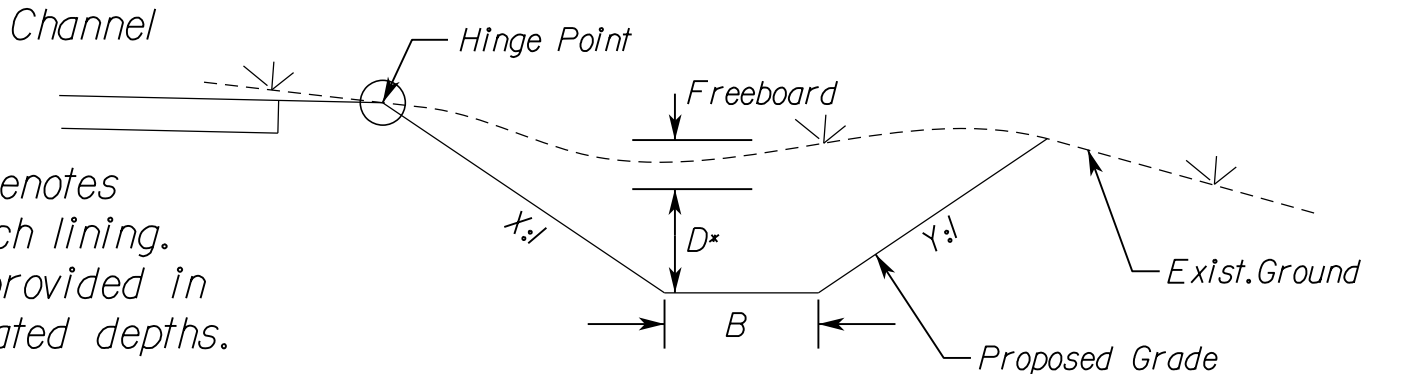
Typical Ditch								
GWMP Ramp G2I	Station	to	Station	D* (ft)	B (ft)	X (ft)	Y (ft)	Lining
Left								
Ditch A3-45	12+11	to	8+33	1.0	0	2	2	PG-2A Type E
Ditch A3-48	12+11	to	14+92	1.0	0	2	2	PG-2A Type E
	14+92	to	15+02	0.7	0	2	2	PG-3 Ty.1 Cl. Al
	15+02	to	15+80	0.6	0	2	2	EC-2 Type 1
Ditch A3-62	17+00	to	16+05	0.2	0	2	7	EC-2 Type 1
Ditch A3-30	2+41	to	5+19	0.7	0	2	2	EC-2 Type 1
Ditch A3-50	20+50	to	22+40	1.0	0	2	2	PG-2A Type E
	22+40	to	22+50	0.5	0	2	2	PG-3 Ty.1 Cl. Al
	22+50	to	25+00	0.8	0	2	2	EC-2 Type 1
Ditch A3-64	24+40	to	24+42	0.3	0	2	2	EC-3 Type 1
Ditch A3-29	3+25	to	2+41	1.0	0	2	2	PG-2A Type E
Ditch A3-40	4+42	to	5+21	1.0	0	2	2	PG-2A Type E
Ditch A3-39	5+22	to	6+45	0.6	0	2	2	EC-2 Type 1
Ditch A3-41	6+66	to	5+23	1.0	0	2	2	PG-2A Type E
Ditch A3-43	7+44	to	8+33	1.0	0	2	2	PG-2A Type E
Right								
Ditch A3-38	5+40	to	7+33	0.6	0	2	2	EC-2 Type 1

Typical Ditch								
Lewinsville Trail	Station	to	Station	D* (ft)	B (ft)	X (ft)	Y (ft)	Lining
Left								
Ditch A3-01	49+75	to	50+00	1.7	0	2	2	EC-3 Type 1
	50+00	to	52+00	1.8	3	2	2	EC-3 Type 1
	52+00	to	52+75	2.6	0	2	2	EC-3 Type 1
	52+75	to	53+75	1.9	0	2	2	EC-3 Type 1
	53+75	to	54+10	2.2	0	4	3	PG-3 Ty.1 Cl. Al
Ditch A3-07	64+00	to	60+89	0.5	0	2	2	EC-2 Type 1
Ditch A3-09	66+62	to	68+37	0.9	0	2	4/2	EC-2 Type 1
Ditch A3-10	69+46	to	69+00	0.4	0	2	2	EC-2 Type 1
	69+00	to	68+60	0.4	0	2	2	EC-2 Type 2
Ditch A3-11	75+04	to	73+29	1.0	0	2	2	PG-2A Type E
	73+29	to	73+19	0.4	0	2	2	PG-3 Ty.1 Cl. Al
	73+19	to	70+55	0.5	0	2	2	EC-2 Type 1
Ditch A3-13	75+04	to	75+90	1.0	0	2	2	PG-2A Type E
	75+90	to	76+00	0.2	0	2	2	PG-3 Ty.1 Cl. Al
	76+00	to	76+90	0.2	0	2	2/4	EC-2 Type 1
Ditch A3-18	82+00	to	83+25	0.7	0	2	2	EC-2 Type 1
Ditch A3-19	84+25	to	83+25	0.6	0	2	2	EC-2 Type 1
Ditch A3-28	88+85	to	85+90	0.8	0	2/4	2/3	EC-2 Type 1

Typical Major Channels									
Identifier	Station	to	Station	D* (ft)	B (ft)	X (ft)	Y (ft)	Frbd.(ft)	Lining
Channel A3-05	622+93	to	622+91	2.3	6	2	2	1.0	PG-3 Ty.1 Cl. Al
Channel A3-02	617+87	to	617+00	2.7	6	2	2	1.0	PG-3 Ty.1 Cl. Al
	617+00	to	616+59	2.0	6	2	2	1.0	PG-3 Ty.1 Cl. Al
Channel A3-63	55+00	to	55+55	1.6	3	2	2	1.0	PG-3 Ty.1 Cl. Al

## Typical Major Channel Section

Proposed Major Channel

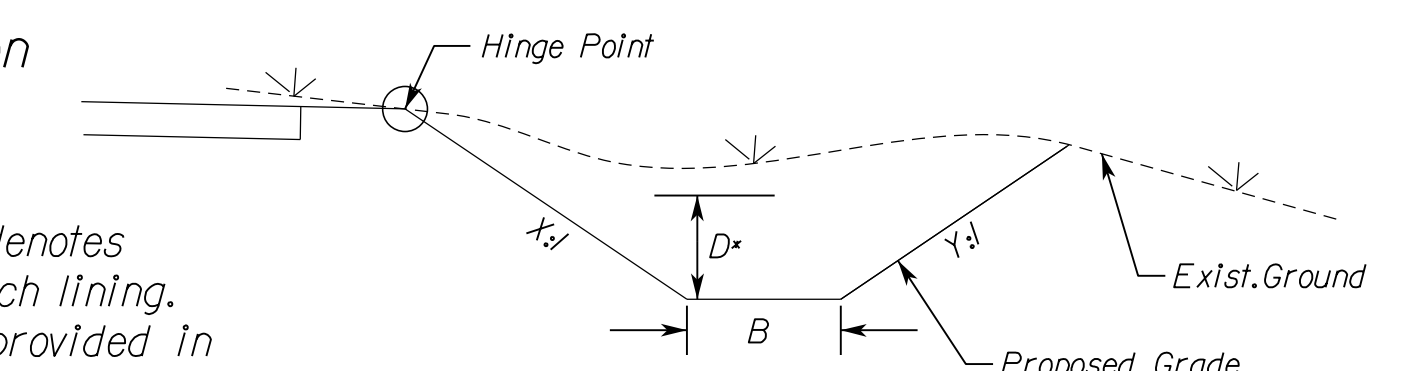


\*Note: Dimension "D\*" denotes minimum depth of ditch lining. EC-3 lining shall be provided in accordance with tabulated depths.

\*\*Note: Minimum Freeboard is 1.0 ft

## Typical Ditch Section

Proposed Ditch



\*Note: Dimension "D\*" denotes minimum depth of ditch lining. EC-3 lining shall be provided in accordance with tabulated depths.

NOVA DISTRICT

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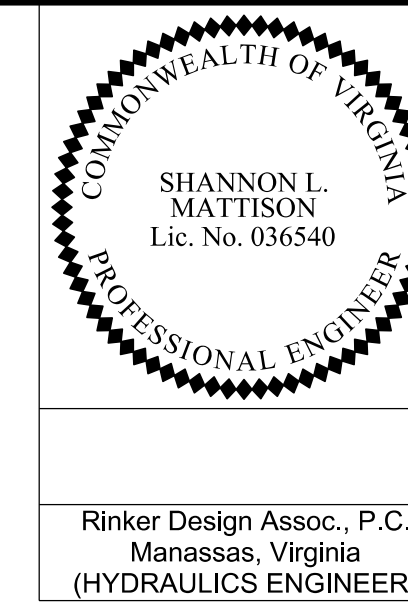






PROJECT MANAGER VDOT - *Ritupal Shah, PE, (703) 259-2362*  
SURVEYED BY, DATE *RDA - Nicholas Kaugaulis, LS, (703) 334-0837, 12/2021*  
DESIGN BY *RDA - Darrell Fischer, PE, (703) 334-0823*  
*Dewberry - Ron Jakomilich, PE, (703) 849-0651*  
SUBSURFACE UTILITY BY, DATE *Accumark - Michael Taylor, LS,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

# Drainage Descriptions



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

REVISED	STATE		STATE		SHEET NO.
	VA.	ROUTE	VDOT PROJECT NO.		
	VA.	495	0495-029-419 C501 RW201		2K(1) AREA 3

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

II-09 to II-10	262' - 30" Storm Sewer Pipe Req'd. (7' Cover) Slit-Tight Joint Type Req'd. Inv(In)262.50 Inv(Out)259.70	II-17	I-S' d. DI-10K (Precast) Req'd. L=10' H=14.6' Inv.=278.60 Top=293.19 Type III Req'd. I-S' d. SL-1 Req'd. I-S' d. IS-1 Req'd. Connect UD-4 to DI		
II-10	I-Modified DI-10K with Extended Base Req'd. L=16' H=10.2' Inv.=254.80 Top=264.96 Type III Req'd. I-S' d. IS-1 Req'd. Connect UD-4 to DI See Sheet 2F(2) - 2F(3) for Details	II-17 to II-27	223' - 24" Storm Sewer Pipe Req'd. (12' Cover) Slit-Tight Joint Type Req'd. Inv(In)278.60 Inv(Out)277.20	II-23	I-S' d. DI-10K (Precast) Req'd. L=16' H=5.9' Inv.=288.50 Top=294.38 Type III Req'd. I-S' d. IS-1 Req'd. Connect UD-4 to DI
II-10 to II-11	290' - 30" Storm Sewer Pipe Req'd. (8' Cover) Slit-Tight Joint Type Req'd. Inv(In)254.80 Inv(Out)251.90	II-18	11.9 Lin. Ft. Modified MH-2 with 84" Base Req'd. I-S' d. MH-1 Frame and Cover Req'd. Prop. Top=282.31 Inv.=269.70 I-S' d. IS-1 Req'd.	II-23 to II-06	103' - 24" Storm Sewer Pipe Req'd. (4' Cover) Slit-Tight Joint Type Req'd. Inv(In)288.50 Inv(Out)286.80
II-11	I-S' d. DI-5 Type I Grate Req'd. S' d. PG-2A Type E Cover H=4.5' Inv.=295.95 Top=300.41 0.1' Backup Berm Req'd.	II-18 to II-19	173' - 54" Storm Sewer Pipe Req'd. (8' Cover) Slit-Tight Joint Type Req'd. Inv(In)269.70 Inv(Out)268.60 Excavate 4" below bottom of storm sewer pipe and backfill with bedding Material Aggregate *25 or *26 68 Tons Bedding Material Aggregate *25 or *26	II-24	I-S' d. DI-10K (Precast) Req'd. L=14' H=7.0' Inv.=266.50 Top=273.49 Type III Req'd. I-S' d. IS-1 Req'd.
II-11 to II-12	10' - 24" Storm Sewer Pipe Req'd. (5' Cover) Slit-Tight Joint Type Req'd. Inv(In)295.95 Inv(Out)294.60	II-19	15.1 Lin. Ft. Modified MH-2 with 84" Base Req'd. I-S' d. MH-1 Frame and Cover Req'd. Prop. Top=276.22 Inv.=260.50 I-S' d. IS-1 Req'd. Drop connection invert protection measure consisting of 6' of additional concrete base material provided below the invert	II-24 to II-25	161' - 24" Storm Sewer Pipe Req'd. (5' Cover) Slit-Tight Joint Type Req'd. Inv(In)266.50 Inv(Out)264.30
II-12	I-S' d. DI-10H Req'd. L=8' H=8.7' Inv.=292.50 Top=301.24 Type I Req'd. I-S' d. IS-1 Req'd.	II-19 to II-20	284' - 54" Storm Sewer Pipe Req'd. (11' Cover) Slit-Tight Joint Type Req'd. Inv(In)260.50 Inv(Out)258.80 Excavate 4" below bottom of storm sewer pipe and backfill with bedding Material Aggregate *25 or *26 111 Tons Bedding Material Aggregate *25 or *26	II-25	6.2 Lin. Ft. S' d. MH-1 or 2 Req'd. I-S' d. MH-1 Frame and Cover Req'd. Prop. Top=269.11 Inv.=262.20 I-S' d. IS-1 Req'd.
II-12 to II-14	274' - 24" Storm Sewer Pipe Req'd. (7' Cover) Slit-Tight Joint Type Req'd. Inv(In)292.50 Inv(Out)287.50	II-20	14.5 Lin. Ft. Modified MH-2 with 84" Base Req'd. I-S' d. MH-1 Frame and Cover Req'd. Prop. Top=267.13 Inv.=252.00 I-S' d. IS-1 Req'd. Drop connection invert protection measure consisting of 6' of additional concrete base material provided below the invert	II-25 to II-26	134' - 24" Storm Sewer Pipe Req'd. (5' Cover) Slit-Tight Joint Type Req'd. Inv(In)262.20 Inv(Out)260.40
II-13	I-S' d. EW-25 (42") Req'd. Inv.=273.50	II-20 to II-21	232' - 54" Storm Sewer Pipe Req'd. (10' Cover) Slit-Tight Joint Type Req'd. Inv(In)252.00 Inv(Out)250.77 Excavate 6" below bottom of storm sewer pipe and backfill with bedding Material Aggregate *25 or *26 111 Tons Bedding Material Aggregate *25 or *26	II-26	I-S' d. DI-10H Req'd. L=8' H=8.9' Inv.=256.30 Top=265.23 Type I Req'd. I-S' d. IS-1 Req'd.
II-13 to II-14	48' - 42" Storm Sewer Pipe Req'd. (17' Cover) Slit-Tight Joint Type Req'd. Inv(In)273.50 Inv(Out)273.20 Excavate 6" below bottom of storm sewer pipe and backfill with bedding Material Aggregate *25 or *26 19 Tons Bedding Material Aggregate *25 or *26	II-21	10.9 Lin. Ft. Modified MH-2 with 84" Base Req'd. I-S' d. MH-1 Frame and Cover Req'd. Prop. Top=260.46 Inv.=248.88 I-S' d. IS-1 Req'd.	II-26 to II-13	302' - 24" Storm Sewer Pipe Req'd. (7' Cover) Slit-Tight Joint Type Req'd. Inv(In)256.30 Inv(Out)252.20
II-14	18.6 Lin. Ft. Modified MH-2 with 84" Base Req'd. I-S' d. MH-1 Frame and Cover Req'd. Prop. Top=292.36 Inv.=273.10 I-S' d. IS-1 Req'd. I-S' d. SL-1 Req'd. Connect UD-4 to DI	II-21 to II-08	125' - 54" Storm Sewer Pipe Req'd. (7' Cover) Slit-Tight Joint Type Req'd. Inv(In)248.88 Inv(Out)248.20 Excavate 4" below bottom of storm sewer pipe and backfill with bedding Material Aggregate *25 or *26 49 Tons Bedding Material Aggregate *25 or *26	II-27	I-S' d. DI-10K (Precast) Req'd. L=8' H=11.5' Inv.=277.10 Top=288.58 Type III Req'd. I-S' d. IS-1 Req'd. Connect UD-4 to DI
II-14 to II-30	179' - 54" Storm Sewer Pipe Req'd. (15' Cover) Slit-Tight Joint Type Req'd. Inv(In)273.10 Inv(Out)272.00 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	II-22	I-S' d. DI-10K (Precast) Req'd. L=8' H=8.9' Inv.=272.90 Top=281.81 Type III Req'd. I-S' d. IS-1 Req'd. Connect UD-4 to DI	II-27 to II-22	263' - 24" Storm Sewer Pipe Req'd. (9' Cover) (24)3' 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)277.10 Inv(Out)275.00
II-15	I-S' d. DI-10H Req'd. L=14' H=16.3' Inv.=279.30 Top=295.55 Type I Req'd. I-S' d. SL-1 Req'd. I-S' d. IS-1 Req'd. Connect UD-4 to DI Connect CD-1 to DI	II-22 to II-01	9' - 15" Storm Sewer Pipe Req'd. (6' Cover) Slit-Tight Joint Type Req'd. Inv(In)274.95 Inv(Out)274.80	II-28	I-S' d. DI-7 Type I Grate Req'd. H=4.5' Inv.=274.95 Top=279.48 0.2' Backup Berm Req'd.
II-15 to II-17	111' - 24" Storm Sewer Pipe Req'd. (14' Cover) Slit-Tight Joint Type Req'd. Inv(In)279.30 Inv(Out)278.70	II-22	I-S' d. DI-10K (Precast) Req'd. L=8' H=8.9' Inv.=272.90 Top=281.81 Type III Req'd. I-S' d. IS-1 Req'd. Connect UD-4 to DI	II-28 to II-01	9' - 15" Storm Sewer Pipe Req'd. (6' Cover) Slit-Tight Joint Type Req'd. Inv(In)274.95 Inv(Out)274.80
II-16	I-S' d. DI-5 Type III Grate Req'd. S' d. PG-2A Type E Cover H=5.9' Inv.=284.50 Top=290.44 0.1' Backup Berm Req'd.	II-22 to II-24	303' - 24" Storm Sewer Pipe Req'd. (7' Cover) Slit-Tight Joint Type Req'd. Inv(In)272.90 Inv(Out)268.60	II-29	I-S' d. DI-7 Type III Grate Req'd. H=4.0' Inv.=276.00 Top=280.00 0.2' Backup Berm Req'd.
II-16 to II-17	28' - 24" Storm Sewer Pipe Req'd. (8' Cover) Slit-Tight Joint Type Req'd. Inv(In)284.50 Inv(Out)283.50			II-29 to II-30	25' - 24" Storm Sewer Pipe Req'd. (8' Cover) Slit-Tight Joint Type Req'd. Inv(In)276.00 Inv(Out)275.80

NOVA DISTRICT

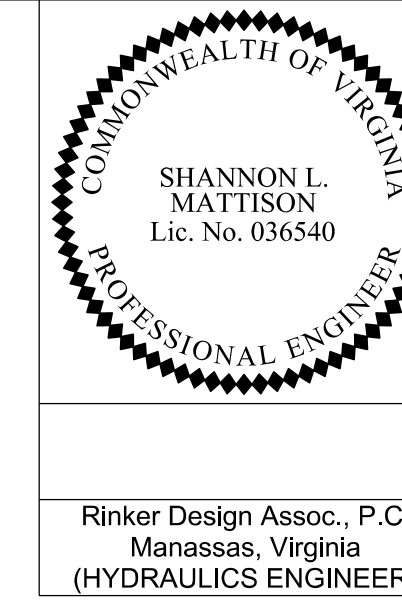
10/6/2022

APPROVED FOR CONSTRUCTION



PROJECT MANAGER VDOT - *Ritpal Singh, PE, (703) 259-2362*  
SURVEYED BY, DATE *RDA - Nicholas Kaugallis, 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	2K12 AREA 3

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

12-03 to 12-04	11' - 24" Storm Sewer Pipe Req'd.(8' Cover) Silt-Tight Joint Type Req'd. Inv(In)296.00 Inv(Out)296.00	12-14	1-S' d. DI-2BB Req'd. L=4' H=18.1' Inv.=281.5 Top=299.20 Type A Nose Req'd. 1-S' d. SL-1 Req'd. 1-S' d. IS-1 Req'd.			
12-04	1-Modified DI-10H with Extended Base Req'd. L=12' H=8.8' Inv.=295.90 Top=304.65 Type I Req'd. 1-S' d. IS-1 Req'd. See Sheet 2F(6) for Details	12-14 to 12-15	20' - 24" Storm Sewer Pipe Req'd.(16' Cover) Silt-Tight Joint Type Req'd. Inv(In)281.5 Inv(Out)281.00			
12-04 to 12-12	170' - 24" Storm Sewer Pipe Req'd.(7' Cover) Silt-Tight Joint Type Req'd. Inv(In)295.90 Inv(Out)294.60	12-15	1-S' d. DI-10H Req'd. L=16' H=18.9' Inv.=280.90 Top=299.77 Type I Req'd. 1-S' d. IS-1 Req'd. 1-S' d. SL-1 Req'd. Connect Modified UD-4 to DI	12-21 to 12-22	19' - 24" Storm Sewer Pipe Req'd.(6' Cover) Silt-Tight Joint Type Req'd. Inv(In)296.70 Inv(Out)296.50	
12-05	1-S' d. DI-5 Type I Grate Req'd. S' d. PG-2A Type E Cover H=3.7' Inv.=300.50 Top=304.21 1-S' d. IS-1 Req'd. Connect to Ex. 15" Concrete Pipe	12-15 to 12-15	29' - 24" Storm Sewer Pipe Req'd.(17" Cover) Silt-Tight Joint Type Req'd. Inv(In)280.90 Inv(Out)279.40	12-22	1-S' d. DI-10K (Precast) Req'd. L=10' H=6.2' Inv.=296.40 Top=302.62 Type III Req'd. 1-S' d. IS-1 Req'd. Connect to UD-4	
12-05 to 12-06	127' - 18" Storm Sewer Pipe Req'd.(8' Cover) Silt-Tight Joint Type Req'd. Inv(In)300.50 Inv(Out)299.50	12-16	1-S' d. DI-5 Type I Grate Req'd. S' d. PG-2A Type A3 Cover H=5.0' Inv.=299.00 Top=303.95 Connect 2 UD-4 to DI	12-22 to 13-20	185' - 24" Storm Sewer Pipe Req'd.(4' Cover) Silt-Tight Joint Type Req'd. Inv(In)296.40 Inv(Out)295.40	
12-06	8.6 Lin. Ft. S' d. MH-1 or 2 Req'd. 1-S' d. MH-1 Frame and Cover Req'd. Prop. Top=308.65 Inv.=299.40 1-S' d. IS-1 Req'd.	12-16 to 12-17	78' - 24" Storm Sewer Pipe Req'd.(16' Cover) Silt-Tight Joint Type Req'd. Inv(In)299.00 Inv(Out)298.40	12-23	1-Modified DI-10H with Extended Base Req'd. L=12' H=13.1' Inv.=291.80 Top=304.87 Type I Req'd. 1-S' d. IS-1 Req'd. 1-S' d. SL-1 Req'd. Connect Modified UD-4 to DI See Sheet 2F(6) for Details	
12-06 to 12-02	235' - 18" Storm Sewer Pipe Req'd.(11' Cover) Silt-Tight Joint Type Req'd. Inv(In)299.40 Inv(Out)297.60	12-17	1-S' d. DI-5 Type I Grate Req'd. S' d. PG-2A Type E Cover H=5.7' Inv.=298.30 Top=304.00 1-S' d. IS-1 Req'd. Connect 2 UD-4 to DI 0.1' Backup Berm Req'd.	12-23 to 12-30	38' - 24" Storm Sewer Pipe Req'd.(12' Cover) Silt-Tight Joint Type Req'd. Inv(In)291.80 Inv(Out)291.50	
12-07	Structure Number Not Assigned	12-17 to 12-18	188' - 24" Storm Sewer Pipe Req'd.(15' Cover) Silt-Tight Joint Type Req'd. Inv(In)298.30 Inv(Out)297.00	12-24	1-S' d. DI-10H Req'd. L=8' H=7.1' Inv.=292.70 Top=299.77 Type I Req'd. 1-S' d. IS-1 Req'd. Connect UD-4 to DI	
12-08	1-S' d. DI-10K (Precast) Req'd. L=16' H=4.8' Inv.=300.40 Top=305.16 Type III Req'd. 1-S' d. IS-1 Req'd. Connect UD-4 to DI	12-18	1-S' d. DI-5 Type I Grate Req'd. S' d. PG-2A Type E Cover H=5.9' Inv.=296.90 Top=302.78 1-S' d. IS-1 Req'd. Connect UD-4 to DI 0.2' Backup Berm Req'd.	12-24 to 12-23	143' - 24" Storm Sewer Pipe Req'd.(11' Cover) Silt-Tight Joint Type Req'd. Inv(In)292.70 Inv(Out)291.90	
12-08 to 12-01	214' - 24" Storm Sewer Pipe Req'd.(13' Cover) Silt-Tight Joint Type Req'd. Inv(In)300.40 Inv(Out)297.50	12-18 to 13-01	271' - 24" Storm Sewer Pipe Req'd.(13' Cover) Silt-Tight Joint Type Req'd. Inv(In)296.90 Inv(Out)293.20	12-25	1-S' d. DI-5 Type III Grate Req'd. S' d. PG-2A Type E Cover H=3.8' Inv.=293.80 Top=297.59	
12-09	1-S' d. DI-10K Req'd. L=10' H=5.2' Inv.=301.00 Top=306.21 Type III Req'd.	12-19	1-S' d. DI-10K (Precast) Req'd. L=12' H=4.5' Inv.=300.60 Top=305.11 Type III Req'd. Connect UD-4 to DI	12-25 to 12-27	41' - 15" Storm Sewer Pipe Req'd.(4' Cover) Silt-Tight Joint Type Req'd. Inv(In)293.80 Inv(Out)293.50	
12-09 to 12-08	15' - 24" Storm Sewer Pipe Req'd.(16' Cover) Silt-Tight Joint Type Req'd. Inv(In)301.00 Inv(Out)300.50	12-19 to 12-20	178' - 24" Storm Sewer Pipe Req'd.(13' Cover) Silt-Tight Joint Type Req'd. Inv(In)300.60 Inv(Out)298.90	12-26 to 12-27	75' - 24" Storm Sewer Pipe Req'd.(13' Cover) Silt-Tight Joint Type Req'd. Inv(In)294.70 Inv(Out)294.00	
12-10	Structure Number Not Assigned	12-20	1-S' d. DI-10K (Precast) Req'd. L=12' H=4.8' Inv.=298.80 Top=303.57 Type III Req'd. 1-S' d. IS-1 Req'd. Connect UD-4 to DI	12-27	1-S' d. DI-10I Req'd. L=6' H=5.7' Inv.=293.40 Top=299.05 Type I Req'd. 1-S' d. IS-1 Req'd. Connect 2 UD-4 to DI Connect CD-2 to DI	
12-11	Structure Number Not Assigned	12-20 to 12-21	199' - 24" Storm Sewer Pipe Req'd.(13' Cover) Silt-Tight Joint Type Req'd. Inv(In)298.80 Inv(Out)296.80	12-27 to 12-24	75' - 24" Storm Sewer Pipe Req'd.(15' Cover) Silt-Tight Joint Type Req'd. Inv(In)293.40 Inv(Out)292.80	
12-12	1-S' d. DI-2BB Req'd. L=6' H=18.9' Inv.=282.00 Top=300.88 Type A Nose Req'd. 1-S' d. SL-1 Req'd. 1-S' d. IS-1 Req'd.	12-21	1-S' d. DI-10K (Precast) Req'd. L=14' H=4.7' Inv.=296.70 Top=301.35 Type III Req'd. 1-S' d. IS-1 Req'd. Connect UD-4 to DI			
12-12 to 12-14	132' - 15" Storm Sewer Pipe Req'd.(18' Cover) Silt-Tight Joint Type Req'd. Inv(In)282.00 Inv(Out)281.25					
12-13	1-S' d. DI-2B Req'd. L=4' H=4.0' Inv.=293.60 Top=297.62 Type A Nose Req'd.					
12-13 to 12-14	121' - 15" Storm Sewer Pipe Req'd.(15' Cover) Silt-Tight Joint Type Req'd. Inv(In)293.60 Inv(Out)292.30					
					12-28	1-S' d. DI-5 Type I Grate Req'd. S' d. PG-2A Type E Cover H=5.5' Inv.=294.00 Top=299.45 Connect 3 UD-4 to DI Connect CD-2 to DI 0.2' Backup Berm Req'd.
					12-28 to 12-29	246' - 24" Storm Sewer Pipe Req'd.(4' Cover) Silt-Tight Joint Type Req'd. Inv(In)294.00 Inv(Out)291.00
					12-29	1-S' d. DI-5 Type I Grate Req'd. S' d. PG-2A Type E Cover H=6.1' Inv.=290.40 Top=296.51 1-S' d. IS-1 Req'd. Connect UD-4 to DI 0.3' Backup Berm Req'd.
					12-29 to 13-24	247' - 30" Storm Sewer Pipe Req'd.(4' Cover) Silt-Tight Joint Type Req'd. Inv(In)290.40 Inv(Out)287.00
					12-30	1-S' d. DI-5 Type I Grate (Precast) Req'd. S' d. PG-2A Type E Cover H=13.2' Inv.=291.40 Top=304.60 1-S' d. IS-1 Req'd. 1-S' d. SL-1 Req'd. Connect UD-4 to DI 0.1' Backup Berm Req'd.
					12-30 to 12-29	41' - 24" Storm Sewer Pipe Req'd.(13' Cover) Silt-Tight Joint Type Req'd. Inv(In)291.40 Inv(Out)291.00
					12-31	1-S' d. DI-7 Type III Grate Req'd. H=3.2' Inv.=284.50 Top=287.70
					12-31 to 12-12	97' - 15" Storm Sewer Pipe Req'd.(17" Cover) Silt-Tight Joint Type Req'd. Inv(In)284.50 Inv(Out)282.10
					12-32	1-S' d. DI-5 Type III Grate Req'd. S' d. PG-2A Type E Cover H=4.5' Inv.=301.00 Top=305.50 0.3' Backup Berm Req'd.
					12-32 to 12-23	61' - 24" Storm Sewer Pipe Req'd.(13' Cover) Silt-Tight Joint Type Req'd. Inv(In)301.00 Inv(Out)300.00
					Sheet 13	
					13-01	1-S' d. DI-5 Type I Grate Req'd. S' d. PG-2A Type E Cover H=6.1' Inv.=293.10 Top=299.20 1-S' d. IS-1 Req'd. Connect UD-4 to DI
					13-01 to 13-02	40' - 24" Storm Sewer Pipe Req'd.(15' Cover) Silt-Tight Joint Type Req'd. Inv(In)293.10 Inv(Out)292.90
					13-02	6.5 Lin. Ft. S' d. MH-1 or 2 Req'd. 1-S' d. MH-1 Frame and Cover Req'd. Prop. Top=299.98 Inv.=292.80 1-S' d. IS-1 Req'd.

VDOT PROJECT NO. 0495-029-419	SHEET NO. 2K12 AREA 3
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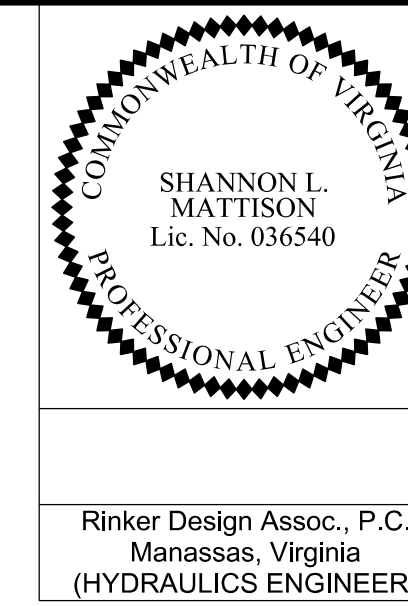
APPROVED FOR CONSTRUCTION

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  
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		VDOT PROJECT NO.	SHEET NO.
	STATE	ROUTE		
	VA.	495	0495-029-419 C501 RW201	2K(3) AREA 3

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

13-02 to 13-03	295' - 24" Storm Sewer Pipe Req'd.(15' Cover) Slit-Tight Joint Type Req'd. Inv(In)292.80 Inv(Out)291.00	13-10 to 13-11	6' - 24" Storm Sewer Pipe Req'd.(10' Cover) Slit-Tight Joint Type Req'd. Inv(In)279.00 Inv(Out)278.90		
13-03	5.2 Lin.Ft.St'd.MH-1 or 2 Req'd. 1-St'd.MH-1 Frame and Cover Req'd. Prop.Top+296.80 Inv.+290.90 1-St'd.IS-1 Req'd.	13-11	1-Modified DI-10K with Extended Base Req'd. L=10' H=12.4' Inv.+278.80 Top+291.20 Type III Req'd. 1-St'd.IS-1 Req'd. Connect 2 UD-4 to DI See Sheet 2F(2) - 2F(3) for Details	13-20	5.1 Lin.Ft.St'd.MH-1 or 2 Req'd. 1-St'd.MH-1 Frame and Cover Req'd. Prop.Top+300.37 Inv.+294.60 1-St'd.IS-1 Req'd. Connect UD-4 to DI
13-03 to 13-06	12' - 24" Storm Sewer Pipe Req'd.(4' Cover) Slit-Tight Joint Type Req'd. Inv(In)290.90 Inv(Out)290.80	13-11 to 13-12	297' - 30" Storm Sewer Pipe Req'd.(10' Cover) Slit-Tight Joint Type Req'd. Inv(In)278.80 Inv(Out)277.20	13-20 to 13-22	202' - 24" Storm Sewer Pipe Req'd.(4' Cover) Slit-Tight Joint Type Req'd. Inv(In)294.60 Inv(Out)293.50
13-04	1-St'd.DI-3B Req'd. L=6' H=5.2' Inv.+316.50 Top+321.73 Type B Nose Req'd.	13-12	1-Modified DI-10K with Extended Base Req'd. L=12' H=8.0' Inv.+276.90 Top+284.93 Type III Req'd. 1-St'd.IS-1 Req'd. Connect UD-4 to DI See Sheet 2F(2) - 2F(3) for Details	13-21	1-St'd.DI-10K Req'd. L=14' H=4.6' Inv.+292.60 Top+297.19 Type III Req'd. Connect UD-4 to DI
13-04 to 13-05	85' - 15" Storm Sewer Pipe Req'd.(4' Cover) Slit-Tight Joint Type Req'd. Inv(In)316.50 Inv(Out)315.00	13-12 to 14-02	265' - 30" Storm Sewer Pipe Req'd.(15' Cover) Slit-Tight Joint Type Req'd. Inv(In)276.90 Inv(Out)273.50	13-21 to 13-22	19' - 24" Storm Sewer Pipe Req'd.(6' Cover) Slit-Tight Joint Type Req'd. Inv(In)292.60 Inv(Out)292.50
13-05	1-St'd.DI-3BB Req'd. L=6' H=18.7' Inv.+301.50 Top+320.16 1-St'd.IS-1 Req'd. 1-St'd.SL-1 Req'd. Connect CD-2 to DI	13-13	1-St'd.DI-3BB Req'd. L=8' H=12.1' Inv.+299.03 Top+311.6 Type B Nose Req'd. 1-St'd.IS-1 Req'd. 1-St'd.SL-1 Req'd. Connect UD-4 to DI	13-22	1-St'd.DI-10K (Precast) Req'd. L=8' H=7.9' Inv.+290.40 Top+298.28 Type III Req'd. 1-St'd.IS-1 Req'd. Connect UD-4 to DI
13-05 to 13-06	155' - 15" Storm Sewer Pipe Req'd.(19' Cover) Slit-Tight Joint Type Req'd. Inv(In)301.50 Inv(Out)293.00	13-13 to 13-14	98' - 15" Storm Sewer Pipe Req'd.(12' Cover) Slit-Tight Joint Type Req'd. Inv(In)299.03 Inv(Out)298.53	13-22 to 13-24	116' - 24" Storm Sewer Pipe Req'd.(16' Cover) Slit-Tight Joint Type Req'd. Inv(In)290.40 Inv(Out)288.70
13-06	1-St'd.DI-5 Type I Gate Req'd. St'd.PG-2A Type E Cover H=5.7' Inv.+290.70 Top+296.40 1-St'd.IS-1 Req'd. Connect UD-4 to DI 0.2' Backup Berm Req'd.	13-14	15.0 Lin.Ft.St'd.MH-1 or 2 Req'd. 1-St'd.MH-1 Frame and Cover Req'd. Prop.Top+313.64 Inv.+298.00 1-St'd.IS-1 Req'd. 1-St'd.SL-1 Req'd.	13-23	Structure Number Not Assigned
13-06 to 13-08	100' - 24" Storm Sewer Pipe Req'd.(4' Cover) Slit-Tight Joint Type Req'd. Inv(In)290.70 Inv(Out)290.10	13-14 to 13-15	98' - 15" Storm Sewer Pipe Req'd.(13' Cover) Slit-Tight Joint Type Req'd. Inv(In)298.00 Inv(Out)293.47	13-24	1-St'd.DI-5 Type I Gate Req'd. St'd.PG-2A Type E Cover H=8.7' Inv.+285.30 Top+294.03 1-St'd.IS-1 Req'd. Connect UD-4 to DI 0.3' Backup Berm Req'd.
13-07	1-St'd.DI-5 Type I Gate Req'd. St'd.PG-2A Type E Cover H=4.9' Inv.+288.40 Top+293.32 Connect UD-4 to DI 0.1' Backup Berm Req'd.	13-15	1-St'd.ES-1 (15') Req'd. Inv.+293.47 1 CY EC-1 Class A Type A Installation Req'd.	13-24 to 13-27	290' - 36" Storm Sewer Pipe Req'd.(15' Cover) Slit-Tight Joint Type Req'd. Inv(In)285.30 Inv(Out)282.90 Excavate 4' below bottom of storm sewer pipe and backfill with bedding Material Aggregate *25 or *26 72 Tons Bedding Material Aggregate *25 or *26
13-07 to 13-08	181' - 24" Storm Sewer Pipe Req'd.(16' Cover) Slit-Tight Joint Type Req'd. Inv(In)288.40 Inv(Out)287.10	13-16	1-St'd.DI-3B Req'd. L=8' H=5.4' Inv.+306.00 Top+311.40 Type B Nose Req'd. Connect UD-4 to DI	13-25	1-St'd.DI-5 Type I Gate (Precast) Req'd. St'd.PG-2A Type E Cover H=16.1' Inv.+283.50 Top+299.61 1-St'd.SL-1 Req'd.
13-08	1-St'd.DI-5 Type I Gate Req'd. St'd.PG-2A Type E Cover H=8.4' Inv.+287.00 Top+295.35 1-St'd.IS-1 Req'd. 0.1' Backup Berm Req'd.	13-16 to 13-17	37' - 15" Storm Sewer Pipe Req'd.(14' Cover) Slit-Tight Joint Type Req'd. Inv(In)306.00 Inv(Out)304.50	13-25 to 13-27	12' - 15" Storm Sewer Pipe Req'd.(15' Cover) Slit-Tight Joint Type Req'd. Inv(In)283.50 Inv(Out)282.90
13-08 to 13-66	75' - 24" Storm Sewer Pipe Req'd.(15' Cover) Slit-Tight Joint Type Req'd. Inv(In)287.00 Inv(Out)286.50	13-17	1-St'd.ES-1 (15') Req'd. Inv.+304.50 1 CY EC-1 Class A Type A Installation Req'd.	13-26	1-St'd.DI-5 Type I Gate Req'd. St'd.PG-2A Type E Cover H=3.2' Inv.+285.00 Top+288.24 0.1' Backup Berm Req'd.
13-09	1-St'd.DI-5 Type III Gate Req'd. St'd.PG-2A Type E Cover H=5.3' Inv.+283.50 Top+288.80 Connect UD-4 to DI 0.1' Backup Berm Req'd.	13-18	Structure Number Not Assigned	13-31 to 13-32	102' - 42" Storm Sewer Pipe Req'd.(18' Cover) Slit-Tight Joint Type Req'd. Inv(In)279.00 Inv(Out)278.25 Excavate 4' below bottom of storm sewer pipe and backfill with bedding Material Aggregate *25 or *26 31 Tons Bedding Material Aggregate *25 or *26
13-09 to 13-10	50' - 24" Storm Sewer Pipe Req'd.(13' Cover) Slit-Tight Joint Type Req'd. Inv(In)283.50 Inv(Out)281.00	13-19 to 13-20	20' - 24" Storm Sewer Pipe Req'd.(16' Cover) Slit-Tight Joint Type Req'd. Inv(In)294.80 Inv(Out)294.70	13-26 to 13-27	119' - 15" Storm Sewer Pipe Req'd.(15' Cover) Slit-Tight Joint Type Req'd. Inv(In)285.00 Inv(Out)283.20
13-10	1-St'd.DI-5 Type I Gate Req'd. St'd.PG-2A Type E Cover H=6.4' Inv.+279.00 Top+285.35 1-St'd.IS-1 Req'd.				

	VDOT PROJECT NO. 0495-029-419	SHEET NO. 2K(3) AREA 3
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APPROVED FOR CONSTRUCTION

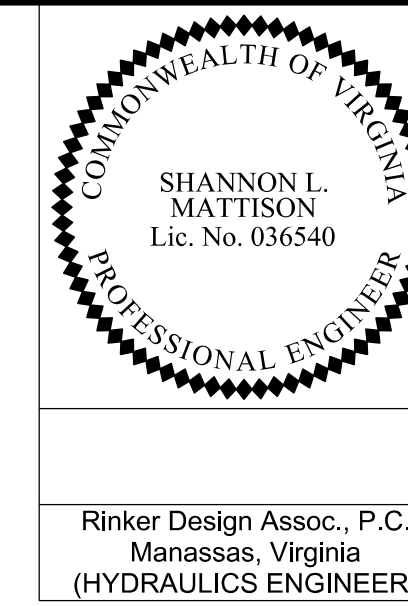
NOVA DISTRICT

10/6/2022



PROJECT MANAGER VDOT - Rirapal 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  
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(4) AREA 3

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

13-32	I-Modified DI-10K with Extended Base Req'd. L=6' H=11' Inv.=278J5 Top=289.27 Type III Req'd. I-S' d. IS-1 Req'd. Connect UD-4 to DI See Sheet 2F(2) - 2F(3) for Details	13-38 to 14-10	275' - 42" Storm Sewer Pipe Req'd.(6' Cover) SIIT-Tight Joint Type Req'd. Inv(In)275J5 Inv(Out)273.40 Excavate 24" below bottom of storm sewer pipe and backfill with bedding Material Aggregate *25 or *26 292 Tons Bedding Material Aggregate *25 or *26		
13-32 to 13-37	13' - 42" Storm Sewer Pipe Req'd.(10' Cover) SIIT-Tight Joint Type Req'd. Inv(In)278J5 Inv(Out)278.05 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	13-39	I-S' d. DI-10K Req'd. L=8' H=4.9' Inv.=317.50 Top=322.35 Type III Req'd. Connect CD-2 to DI	13-48	I-S' d. DI-10K (Precast) Req'd. L=4' H=4.5' Inv.=282.50 Top=287.02 Type III Req'd. Connect UD-4 to DI
13-33	I-S' d. DI-10K Req'd. L=6' H=4.9' Inv.=290.50 Top=295.36 Type III Req'd. Connect UD-4 to DI	13-39 to 13-40	37' - 15" Storm Sewer Pipe Req'd.(5' Cover) SIIT-Tight Joint Type Req'd. Inv(In)317.50 Inv(Out)317J0	13-48 to 13-49	76' - 24" Storm Sewer Pipe Req'd.(6' Cover) SIIT-Tight Joint Type Req'd. Inv(In)282.50 Inv(Out)279.60
13-33 to 13-34	18' - 24" Storm Sewer Pipe Req'd.(6' Cover) SIIT-Tight Joint Type Req'd. Inv(In)290.50 Inv(Out)289.50	13-40	I-S' d. DI-3B Req'd. L=8' H=6J' Inv.=317.00 Top=323J3 Type B Nose Req'd. I-S' d. IS-1 Req'd. Connect CD-2 to DI	13-49	I-S' d. DI-10L (Precast) Req'd. L=6' H=7.5' Inv.=279.50 Top=286.95 Type III Req'd. I-S' d. IS-1 Req'd. Connect 2 UD-4 to DI Connect CD-2 to DI
13-34	I-S' d. DI-10K (Precast) Req'd. L=10' H=4.7' Inv.=289.40 Top=294J3 Type III Req'd. I-S' d. IS-1 Req'd. Connect UD-4 to DI	13-40 to 13-41	41' - 15" Storm Sewer Pipe Req'd.(6' Cover) SIIT-Tight Joint Type Req'd. Inv(In)317.00 Inv(Out)316.50	13-49 to 13-51	21' - 24" Storm Sewer Pipe Req'd.(6' Cover) SIIT-Tight Joint Type Req'd. Inv(In)279.50 Inv(Out)279.39
13-34 to 13-36	289' - 24" Storm Sewer Pipe Req'd.(5' Cover) SIIT-Tight Joint Type Req'd. Inv(In)289.40 Inv(Out)286.40	13-41	7J Lin.Ft. S' d. MH-1 or 2 Req'd. I-S' d. MH-1 Frame and Cover Req'd. ADA Compliant - See VDOT R&B S' d. J06.04 Prop. Top=324J5 Inv.=316.40 I-S' d. IS-1 Req'd.	13-50	I-S' d. DI-10K (Precast) Req'd. L=4' H=4.6' Inv.=282J0 Top=286.74 Type III Req'd. Connect UD-4 to DI
13-35	I-S' d. DI-10K Req'd. L=8' H=5.4' Inv.=286.90 Top=292.29 Type III Req'd. Connect UD-4 to DI	13-41 to 13-42	147' - 24" Storm Sewer Pipe Req'd.(8' Cover) SIIT-Tight Joint Type Req'd. Inv(In)316.40 Inv(Out)312.00	13-50 to 13-51	76' - 24" Storm Sewer Pipe Req'd.(5' Cover) SIIT-Tight Joint Type Req'd. Inv(In)282J0 Inv(Out)279.40
13-35 to 13-36	16' - 24" Storm Sewer Pipe Req'd.(6' Cover) SIIT-Tight Joint Type Req'd. Inv(In)286.90 Inv(Out)286.50	13-42	I-S' d. ES-1 (24") Req'd. Inv.=312.00 3 CY EC-1 Class A I Type A Installation Req'd.	13-51	I-S' d. DI-10L (Precast) Req'd. L=6' H=6.9' Inv.=279.29 Top=286.23 Type III Req'd. I-S' d. IS-1 Req'd. Connect 2 UD-4 to DI Connect CD-2 to DI
13-36	I-S' d. DI-10K (Precast) Req'd. L=14' H=4.7' Inv.=286.30 Top=290.95 Type III Req'd. I-S' d. IS-1 Req'd. Connect UD-4 to DI	13-43	I-S' d. DI-10K Req'd. L=4' H=3.9' Inv.=316.00 Top=319.85 Type III Req'd. Connect UD-4 to DI	13-51 to 13-52	26' - 24" Storm Sewer Pipe Req'd.(5' Cover) SIIT-Tight Joint Type Req'd. Inv(In)279.29 Inv(Out)279J0
13-36 to 13-37	223' - 24" Storm Sewer Pipe Req'd.(13' Cover) SIIT-Tight Joint Type Req'd. Inv(In)286.30 Inv(Out)284.20	13-43 to 13-44	9' - 15" Storm Sewer Pipe Req'd.(3' Cover) SIIT-Tight Joint Type Req'd. Inv(In)316.00 Inv(Out)315.20	13-52	I-S' d. DI-10K (Precast) Req'd. L=6' H=7.3' Inv.=279.00 Top=286.30 Type III Req'd. I-S' d. IS-1 Req'd. Connect UD-4 to DI
13-37	I-Modified DI-10K with Extended Base Req'd. L=14' H=10.8' Inv.=277.95 Top=288.76 Type III Req'd. I-S' d. IS-1 Req'd. Connect UD-4 to DI See Sheet 2F(2) - 2F(3) for Details	13-44	I-S' d. ES-1 (15") Req'd. Inv.=315.20 1 CY EC-1 Class A I Type A Installation Req'd.	13-52 to 13-54	164' - 24" Storm Sewer Pipe Req'd.(9' Cover) SIIT-Tight Joint Type Req'd. Inv(In)279.00 Inv(Out)278J0
13-37 to 13-38	297' - 42" Storm Sewer Pipe Req'd.(7' Cover) SIIT-Tight Joint Type Req'd. Inv(In)277.95 Inv(Out)276J0 Excavate 4" below bottom of storm sewer pipe and backfill with bedding Material Aggregate *25 or *26 90 Tons Bedding Material Aggregate *25 or *26	13-45	I-S' d. DI-10K Req'd. L=10' H=8.8' Inv.=309.00 Top=317.84 Type III Req'd. Connect 2 UD-4 to DI	13-54 to 13-55	147' - 30" Storm Sewer Pipe Req'd.(12' Cover) SIIT-Tight Joint Type Req'd. Inv(In)274.80 Inv(Out)273.90
13-38	I-Modified DI-10K with Extended Base Req'd. L=10' H=9J' Inv.=275J5 Top(NB)=284.49 Top(SB)=284.27 Type II Req'd. I-S' d. IS-1 Req'd. Connect 2 UD-4 to DI See Sheet 2F(4) - 2F(5) for Details	13-45 to 13-46	20' - 15" Storm Sewer Pipe Req'd.(8' Cover) SIIT-Tight Joint Type Req'd. Inv(In)309.00 Inv(Out)307.50	13-53 to 13-54	21' - 24" Storm Sewer Pipe Req'd.(3' Cover) SIIT-Tight Joint Type Req'd. Inv(In)282.70 Inv(Out)282.00
		13-46	I-S' d. ES-1 (15") Req'd. Inv.=307.50 1 CY EC-1 Class A I Type A Installation Req'd.	13-54	I-S' d. DI-10K (Precast) Req'd. L=6' H=9.4' Inv.=278.00 Top=287.39 Type III Req'd. I-S' d. IS-1 Req'd. Connect UD-4 to DI
		13-47	I-S' d. DI-5 Type I Grate Req'd. S' d. PG-2A Type E Cover H=11J' Inv.=280.70 Top=291.75	13-54 to 13-58	193' - 24" Storm Sewer Pipe Req'd.(12' Cover) SIIT-Tight Joint Type Req'd. Inv(In)278.00 Inv(Out)275.90
		13-47 to 13-49	4' - 24" Storm Sewer Pipe Req'd.(9' Cover) SIIT-Tight Joint Type Req'd. Inv(In)280.70 Inv(Out)280.60		

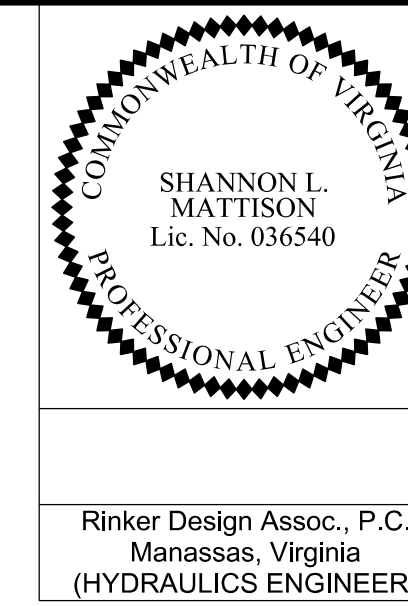
NOVA DISTRICT

10/6/2022



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  
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 3

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

13-62	Structure Number Not Assigned	13N-04 to 13N-05	11' - 15" Storm Sewer Pipe Req'd. (2' Cover) Silt-Tight Joint Type Req'd. Inv(In)308.70 Inv(Out)308.50		
13-63	1-S' d. DI-2B Req'd. L=10' H=3.8' Inv.=284.70 Top=288.47 Type B Nose Req'd.	13N-05	4.6 Lin. Ft. S' d. MH-1 or 2 Req'd. 1-S' d. MH-1 Frame and Cover Req'd. Prop. Top=312.15 Inv.=306.84 1-S' d. IS-1 Req'd. Connect to Ex. 18" Concrete Pipe	130-03 to 130-04	84' - 15" Storm Sewer Pipe Req'd. (6' Cover) Silt-Tight Joint Type Req'd. Inv(In)289.00 Inv(Out)288.50
13-63 to 13-64	26' - 15" Storm Sewer Pipe Req'd. (3' Cover) Silt-Tight Joint Type Req'd. Inv(In)284.70 Inv(Out)284.50	13N-06	1-S' d. DI-3B Req'd. L=6' H=4.0' Inv.=316.00 Top=320.00 Type B Nose Req'd. Connect UD-4 to DI	130-04	9.8 Lin. Ft. S' d. MH-1 or 2 Req'd. 1-S' d. MH-1 Frame and Cover Req'd. Prop. Top=295.82 Inv.=285.40 1-S' d. IS-1 Req'd. Connect UD-4 to DI
13-64	1-S' d. DI-1 Grate Req'd. H=3.4' Inv.=284.40 Top=287.80 1-S' d. IS-1 Req'd.	13N-06 to 13N-07	39' - 15" Storm Sewer Pipe Req'd. (4' Cover) Silt-Tight Joint Type Req'd. Inv(In)316.00 Inv(Out)315.70	130-04 to 130-05	122' - 15" Storm Sewer Pipe Req'd. (9' Cover) Silt-Tight Joint Type Req'd. Inv(In)285.40 Inv(Out)281.50
13-64 to 13-65	11' - 15" Storm Sewer Pipe Req'd. (2' Cover) Silt-Tight Joint Type Req'd. Inv(In)284.40 Inv(Out)284.10	13N-07	4.3 Lin. Ft. S' d. MH-1 or 2 Req'd. 1-S' d. MH-1 Frame and Cover Req'd. Prop. Top=320.55 Inv.=315.60 1-S' d. IS-1 Req'd. Connect UD-4 to DI	130-05	1-S' d. DI-3B Req'd. L=10' H=7.6' Inv.=281.40 Top=289.02 Type B Nose Req'd. 1-S' d. IS-1 Req'd. Connect UD-4 to DI
13-65	3.0 Lin. Ft. S' d. MH-1 or 2 1-S' d. MH-1 Frame and Cover Req'd. Prop. Top=287.61 Inv.=283.95 1-S' d. IS-1 Req'd. Connect to Ex. 12" Metal Pipe	13N-07 to 13-60	85' - 15" Storm Sewer Pipe Req'd. (9' Cover) Silt-Tight Joint Type Req'd. Inv(In)315.60 Inv(Out)315.03	130-05 to 130-06	47' - 15" Storm Sewer Pipe Req'd. (9' Cover) Silt-Tight Joint Type Req'd. Inv(In)281.40 Inv(Out)281.00
13-65 to EX674	56' - 12" Existing Metal Pipe (4' Cover) Inv(In)283.95 Inv(Out)280.51 Repair Method C (Repair Band) Req'd.	13N-08	1-S' d. DI-3B Req'd. L=10' H=5.8' Inv.=309.00 Top=314.76 Type B Nose Req'd. Connect UD-4 to DI	130-06	13.9 Lin. Ft. S' d. MH-1 or 2 with Doghouse Connection Req'd. 1-S' d. MH-1 Frame and Cover Req'd. Prop. Top=291.05 Inv.=276.52 1-S' d. IS-1 Req'd. 1-S' d. SL-1 Req'd. Connect to Ex. 21" Concrete Pipe
13-66	1-S' d. DI-10K (Precast) Req'd. L=12' H=16.4' Inv.=286.40 Top=302.81 Type III Req'd. 1 S' d. IS-1 Req'd. 1 S' d. SL-1 Req'd. Connect UD-4 to DI	13N-08 to EX166	48' - 15" Storm Sewer Pipe Req'd. (5' Cover) Silt-Tight Joint Type Req'd. Inv(In)309.00 Inv(Out)307.00	130-07	1-S' d. DI-3B Req'd. L=14' H=4.1' Inv.=276.32 Top=280.40 Type B Nose Req'd. Connect 3 UD-4 to DI
13-66 to 13-67	163' - 24" Storm Sewer Pipe Req'd. (14' Cover) Silt-Tight Joint Type Req'd. Inv(In)286.40 Inv(Out)285.10	EX166	Modify Existing Drop Inlet Modify to Accept 15" Storm Sewer Pipe	130-07 to 130-08	36' - 15" Storm Sewer Pipe Req'd. (3' Cover) Silt-Tight Joint Type Req'd. Inv(In)276.32 Inv(Out)276.07
13-67	8.6 Lin. Ft. S' d. MH-1 or 2 Req'd. 1-S' d. MH-1 Frame and Cover Req'd. Prop. Top=294.24 Inv.=285.00 1-S' d. IS-1 Req'd.	EX167 to EX168	194' - 15" Existing Concrete Pipe (8' Cover) Inv(In)306.07 Inv(Out)297.98 Repair Method A, B, or D Req'd.	130-08	1-S' d. ES-1 (15') Req'd. Inv.=276.07 1 CY EC-1 Class A1 Type A Installation Req'd.
13-67 to 13-11	100' - 24" Storm Sewer Pipe Req'd. (7' Cover) Silt-Tight Joint Type Req'd. Inv(In)285.00 Inv(Out)284.20	EX168 to EX169	25' - 18" Existing Concrete Pipe (1' Cover) Inv(In)297.93 Inv(Out)297.57 Repair Method C (Repair Bands) Req'd.	130-09	6.9' S' d. SWM-1 Req'd. Top of Riser=300.50, Bottom of Riser=293.65 3" Low Flow Orifice Req'd., Inv.=298.50 Inv. Out=296.90 1-S' d. IS-1 Req'd See Sheet 2M(4) - 2M(7) for Details
Sheet 13N		Sheet 130		130-09 to 130-10	38' - 15" Concrete Pipe Req'd. (6' Cover) Leak Resistant Joint Type Req'd. Inv(In)296.90 Inv(Out)296.00 38" Concrete Cradle Pipe-Spec. Section 232 (AASHTO M170) Gasket- Spec. Section 212 (ASTM C443)
13N-01	1-S' d. DI-3B Req'd. L=8' H=4.6' Inv.=311.61 Top=316.19 Type B Nose Req'd. Connect 2 UD-4 to DI	130-01	1-S' d. DI-3B Req'd. L=8' H=4.0' Inv.=300.57 Top=304.55 Type B Nose Req'd. Connect 2 UD-4 to DI	130-10	1-S' d. DI-7 Type III Grate Req'd. H=3.6' Inv.=296.00 Top=299.60 1-S' d. IS-1 Req'd Connect UD-4 to DI
13N-01 to 13N-02	64' - 15" Storm Sewer Pipe Req'd. (15' Cover) Silt-Tight Joint Type Req'd. Inv(In)311.61 Inv(Out)309.25	130-01 to 130-02	41' - 15" Storm Sewer Pipe Req'd. (3' Cover) Silt-Tight Joint Type Req'd. Inv(In)300.57 Inv(Out)299.96	130-10 to 130-12	23' - 15" Storm Sewer Pipe Req'd. (3' Cover) Silt-Tight Joint Type Req'd. Inv(In)296.00 Inv(Out)295.50
13N-02	1-S' d. ES-1 (15') Req'd. Inv.=309.25 1 CY EC-1 Class A1 Type A Installation Req'd.	130-02	1-S' d. DI-3B Req'd. L=10' H=4.2' Inv.=299.86 Top=304.02 Type B Nose Req'd. 1-S' d. IS-1 Req'd. Connect UD-4 to DI		
13N-03	1-S' d. DI-3B Req'd. L=8' H=4.1' Inv.=314.40 Top=318.51 Type B Nose Req'd. Connect UD-4 to DI	130-02 to 13-13	146' - 15" Storm Sewer Pipe Req'd. (11' Cover) Silt-Tight Joint Type Req'd. Inv(In)299.86 Inv(Out)299.13		
13N-03 to 13-61	138' - 15" Storm Sewer Pipe Req'd. (10' Cover) Silt-Tight Joint Type Req'd. Inv(In)314.40 Inv(Out)313.71	130-03	1-S' d. DI-3B Req'd. L=10' H=4.4' Inv.=289.00 Top=293.44 Type B Nose Req'd. Connect UD-4 to DI		
13N-04	1-S' d. ES-1 (15') Req'd. Inv.=308.70				

NOVA DISTRICT

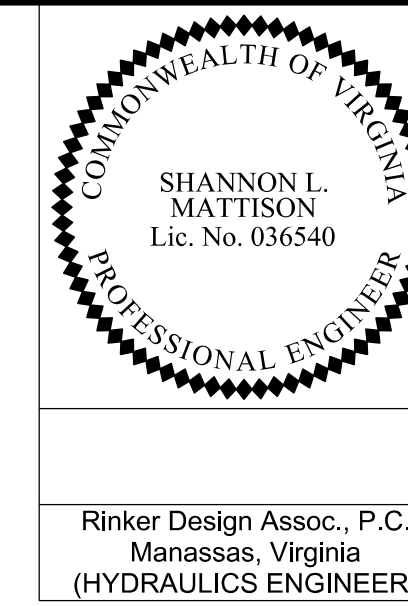
10/6/2022

APPROVED FOR CONSTRUCTION



PROJECT MANAGER VDOT - Rirapal 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		STATE		SHEET NO.
	VA.	ROUTE	VDOT PROJECT NO.		
	VA.	495	0495-029-419 C501 RW201	2K16)	AREA 3

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

14-06	1-SI'd, DI-10K Req'd. L=18' H=5.1' Inv.=263.30 Top=268.41 Type III Req'd. Connect UD-4 to DI	14-12 to 14-13	248' - 48" Storm Sewer Pipe Req'd. (7' Cover) SIIT-Tight Joint Type Req'd. Inv(In)259.30 Inv(Out)257.80 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		
14-06 to 14-07	8' - 24" Storm Sewer Pipe Req'd. (4' Cover) SIIT-Tight Joint Type Req'd. Inv(In)263.30 Inv(Out)263.20	14-13	1-Modified DI-10K with Extended Base Req'd. L=14' H=9.8' Inv.=255.00 Top=264.77 Type III Req'd. 1-SI'd, IS-1 Req'd. Connect 2 UD-4 to DI See Sheet 2F(2) - 2F(3) for Details	14-19	10.5 Lin. Ft. SI'd, MH-1 or 2 Req'd. 1-SI'd, MH-1 Frame and Cover Req'd. Prop. Top=281.16 Inv.=270.00 1-SI'd, IS-1 Req'd. Connect UD-4 to MH
14-07	8.8 Lin. Ft. SI'd, MH-1 or 2 Req'd. 1-SI'd, MH-1 Frame and Cover Req'd. Prop. Top=268.98 Inv.=259.50 1-SI'd, IS-1 Req'd.	14-13 to 15-19	150' - 48" Storm Sewer Pipe Req'd. (8' Cover) SIIT-Tight Joint Type Req'd. Inv(In)255.00 Inv(Out)254.25 Excavate 4' below bottom of storm sewer pipe and backfill with bedding Material Aggregate *25 or *26 52 Tons Bedding Material Aggregate *25 or *26	14-19 to 14-20	124' - 36" Storm Sewer Pipe Req'd. (9' Cover) SIIT-Tight Joint Type Req'd. Inv(In)270.00 Inv(Out)269.10 Excavate 4' below bottom of storm sewer pipe and backfill with bedding Material Aggregate *25 or *26 33 Tons Bedding Material Aggregate *25 or *26
14-07 to 14-09	182' - 30" Storm Sewer Pipe Req'd. (7' Cover) SIIT-Tight Joint Type Req'd. Inv(In)259.50 Inv(Out)257.70	14-14	1-SI'd, DI-5 Type I Grate Req'd. SI'd, PG-2A Type E Cover H=4.7' Inv.=277.00 Top=281.72 Connect UD-4 to DI 0.3' Backup Berm Req'd.	14-20	1-Modified DI-10K with Extended Base Req'd. L=12' H=10.4' Inv.=269.00 Top=279.44 Type III Req'd. 1-SI'd, IS-1 Req'd. Connect UD-4 to DI See Sheet 2F(2) - 2F(3) for Details
14-08	1-SI'd, DI-10K Req'd. L=12' H=5.3' Inv.=257.70 Top=263.02 Type III Req'd. Connect UD-4 to DI	14-14 to 14-15	8' - 24" Storm Sewer Pipe Req'd. (5' Cover) SIIT-Tight Joint Type Req'd. Inv(In)277.00 Inv(Out)276.80	14-20 to 14-23	47' - 36" Storm Sewer Pipe Req'd. (8' Cover) SIIT-Tight Joint Type Req'd. Inv(In)269.00 Inv(Out)268.60 Excavate 4' below bottom of storm sewer pipe and backfill with bedding Material Aggregate *25 or *26 13 Tons Bedding Material Aggregate *25 or *26
14-08 to 14-09	9' - 24" Storm Sewer Pipe Req'd. (4' Cover) SIIT-Tight Joint Type Req'd. Inv(In)257.70 Inv(Out)257.50	14-15	10.9 Lin. Ft. SI'd, MH-1 or 2 Req'd. 1-SI'd, MH-1 Frame and Cover Req'd. Prop. Top=283.99 Inv.=272.40 1-SI'd, IS-1 Req'd. Connect UD-4 to MH Connect CD-1 to MH	14-21	Structure Number Not Assigned
14-09	9.9 Lin. Ft. SI'd, MH-1 or 2 Req'd. 1-SI'd, MH-1 Frame and Cover Req'd. Prop. Top=263.70 Inv.=253.10 1-SI'd, IS-1 Req'd.	14-15 to 14-16	92' - 36" Storm Sewer Pipe Req'd. (9' Cover) SIIT-Tight Joint Type Req'd. Inv(In)272.40 Inv(Out)271.50 Excavate 4' below bottom of storm sewer pipe and backfill with bedding Material Aggregate *25 or *26 24 Tons Bedding Material Aggregate *25 or *26	14-22	1-SI'd, DI-10K (Precast) Req'd. L=6' H=5.1' Inv.=275.70 Top=280.84 Type III Req'd. Connect UD-4 to DI
14-09 to 15-06	260' - 36" Storm Sewer Pipe Req'd. (6' Cover) SIIT-Tight Joint Type Req'd. Inv(In)253.10 Inv(Out)250.60 Excavate 4' below bottom of storm sewer pipe and backfill with bedding Material Aggregate *25 or *26 68 Tons Bedding Material Aggregate *25 or *26	14-16	1-Modified DI-10K with Extended Base Req'd. L=10' H=12.1' Inv.=270.80 Top=282.85 Type III Req'd. 1-SI'd, IS-1 Req'd. 1-SI'd, SL-1 Req'd. Connect UD-4 to DI See Sheet 2F(2) - 2F(3) for Details	14-22 to 14-23	33' - 24" Storm Sewer Pipe Req'd. (3' Cover) SIIT-Tight Joint Type Req'd. Inv(In)275.70 Inv(Out)275.00
14-10	1-Modified DI-10K with Extended Base Req'd. L=14' H=11.5' Inv.=268.05 Top(NB)=279.89 Top(SB)=279.52 Type II Req'd. 1-SI'd, IS-1 Req'd. Connect 2 UD-4 to DI See Sheet 2F(4) - 2F(5) for Details	14-16 to 14-19	124' - 36" Storm Sewer Pipe Req'd. (9' Cover) SIIT-Tight Joint Type Req'd. Inv(In)270.80 Inv(Out)270.10 Excavate 4' below bottom of storm sewer pipe and backfill with bedding Material Aggregate *25 or *26 33 Tons Bedding Material Aggregate *25 or *26	14-23	300' - 36" Storm Sewer Pipe Req'd. (8' Cover) SIIT-Tight Joint Type Req'd. Inv(In)268.50 Inv(Out)266.10 Excavate 4' below bottom of storm sewer pipe and backfill with bedding Material Aggregate *25 or *26 78 Tons Bedding Material Aggregate *25 or *26
14-10 to 14-11	239' - 42" Storm Sewer Pipe Req'd. (8' Cover) SIIT-Tight Joint Type Req'd. Inv(In)268.05 Inv(Out)266.50 Excavate 6' below bottom of storm sewer pipe and backfill with bedding Material Aggregate *25 or *26 90 Tons Bedding Material Aggregate *25 or *26	14-17	1-SI'd, DI-10K Req'd. L=6' H=9.9' Inv.=273.30 Top=283.24 Type III Req'd. Connect UD-4 to DI	14-24	1-SI'd, DI-10H Req'd. L=6' H=5.7' Inv.=269.60 Top=275.34 Type I Req'd. Connect UD-4 to DI
14-11	1-Modified DI-10K with Extended Base Req'd. L=12' H=12.5' Inv.=263.60 Top(NB)=276.08 Top(SB)=274.22 Type II Req'd. 1-SI'd, IS-1 Req'd. Connect 2 UD-4 to DI See Sheet 2F(4) - 2F(5) for Details	14-17 to 14-16	39' - 24" Storm Sewer Pipe Req'd. (10' Cover) SIIT-Tight Joint Type Req'd. Inv(In)273.30 Inv(Out)272.80	14-24 to 14-25	30' - 24" Storm Sewer Pipe Req'd. (4' Cover) SIIT-Tight Joint Type Req'd. Inv(In)269.60 Inv(Out)269.00
14-11 to 14-12	201' - 48" Storm Sewer Pipe Req'd. (6' Cover) SIIT-Tight Joint Type Req'd. Inv(In)263.60 Inv(Out)262.40 Excavate 4' below bottom of storm sewer pipe and backfill with bedding Material Aggregate *25 or *26 69 Tons Bedding Material Aggregate *25 or *26	14-18	1-SI'd, DI-10K Req'd. L=8' H=4.9' Inv.=275.00 Top=279.87 Type III Req'd.	14-25	1-SI'd, DI-10K Req'd. L=10' H=5.9' Inv.=268.90 Top=274.78 Type III Req'd. 1-SI'd, IS-1 Req'd. Connect UD-4 to DI
14-12	1-Modified DI-10K with Extended Base Req'd. L=12' H=10.4' Inv.=259.30 Top=269.70 Type III Req'd. 1-SI'd, IS-1 Req'd. Connect 2 UD-4 to DI See Sheet 2F(2) - 2F(3) for Details	14-18 to 14-19	8' - 24" Storm Sewer Pipe Req'd. (4' Cover) SIIT-Tight Joint Type Req'd. Inv(In)275.00 Inv(Out)274.80		

	VDOT PROJECT NO. 0495-029-419	SHEET NO. 2K16) AREA 3
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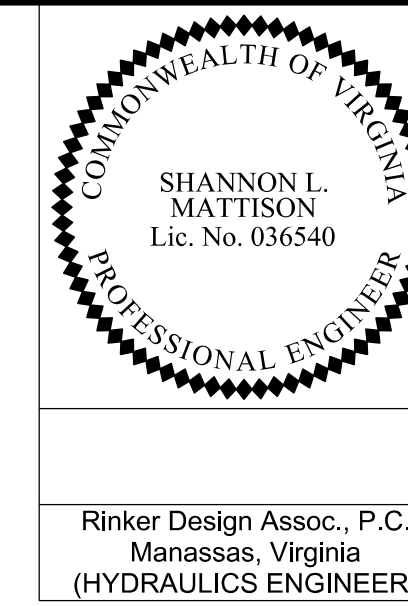
APPROVED FOR CONSTRUCTION

NOVA DISTRICT



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 Accurark - 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(7) AREA 3

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
GEORGETOWN PIKE	X					X	X	X
BALLS HILL 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
GEORGETOWN PIKE	X								X	X	X	X
BALLS HILL 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

10/16/2022

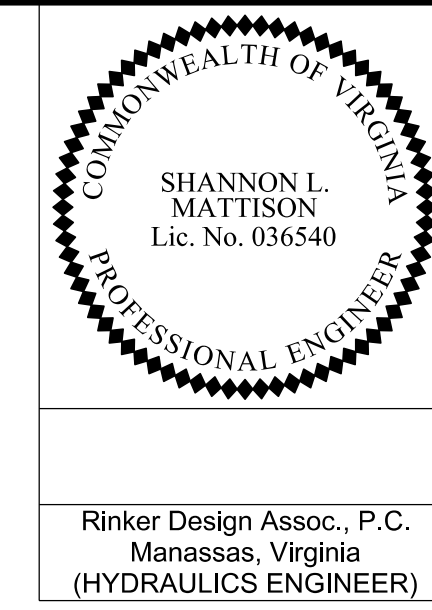
VDOT PROJECT NO.  
0495-029-419  
SHEET NO.  
2K(7)  
AREA 3

APPROVED FOR CONSTRUCTION



PROJECT MANAGER\_VDOT - Rupal Shah, P.E. (703) 259-2362  
 SURVEYED BY, DATE\_RDA - Nicholas Kougaoullis, 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

# Storm Sewer Profiles

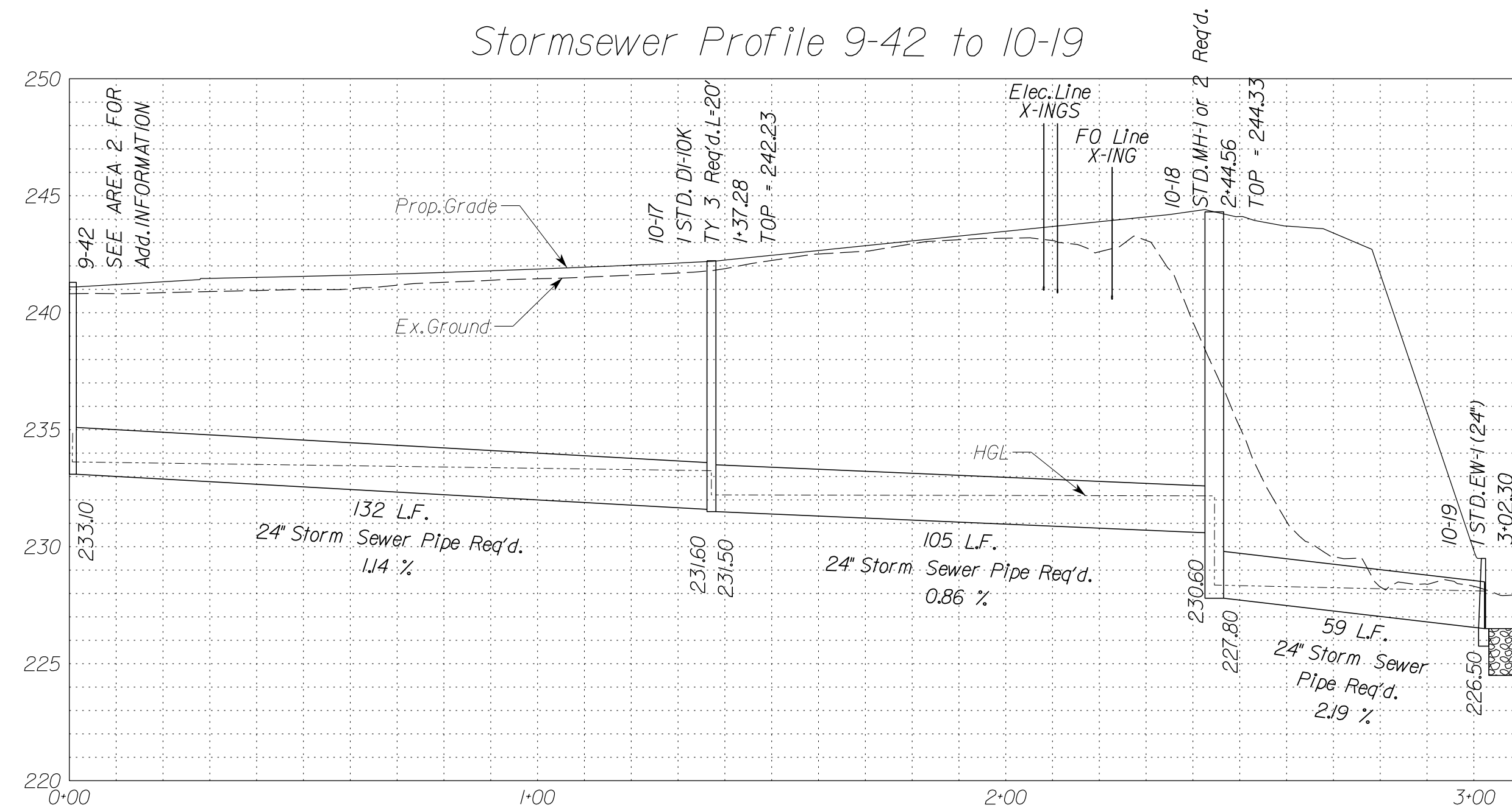


Rinker Design Assoc., P.C.  
 Manassas, Virginia  
 (HYDRAULICS ENGINEER)

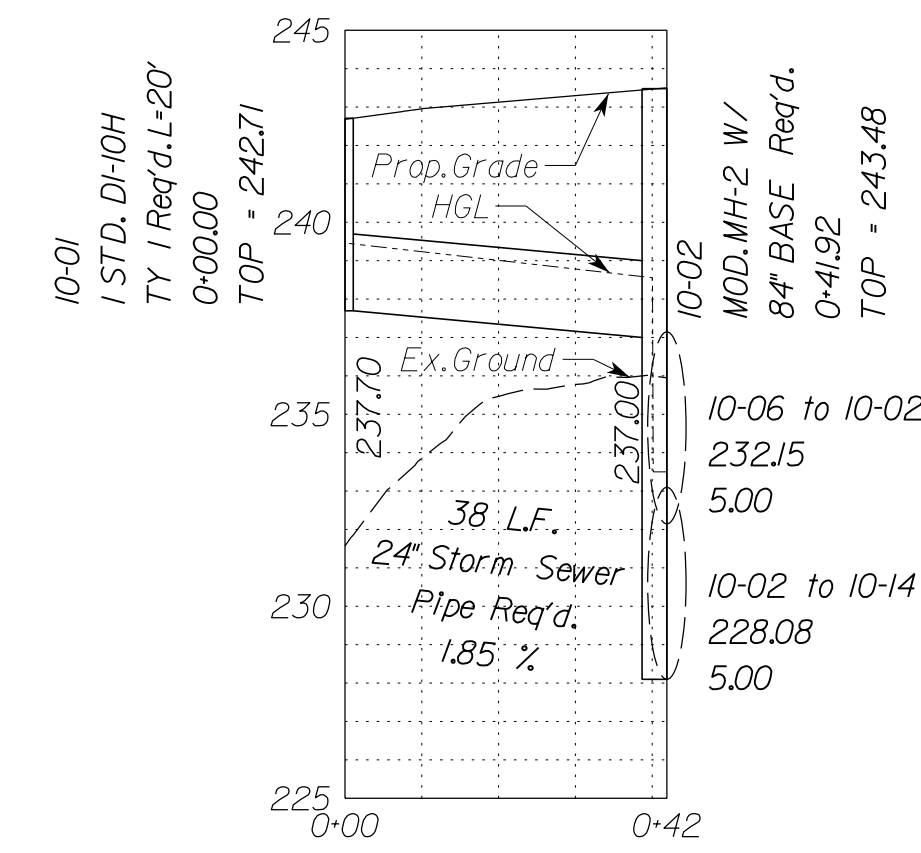
REVISED	STATE	ROUTE	STATE	VDOT PROJECT NO.	SHEET NO.
	VA	495		0495-029-419 C501 RW201	2L1010A AREA 3

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

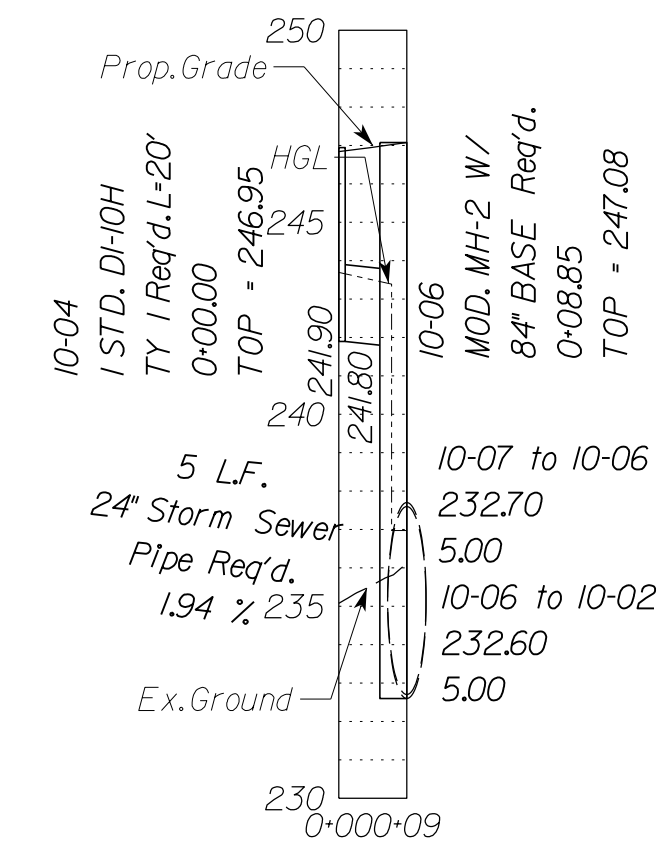
Stormsewer Profile 9-42 to 10-19



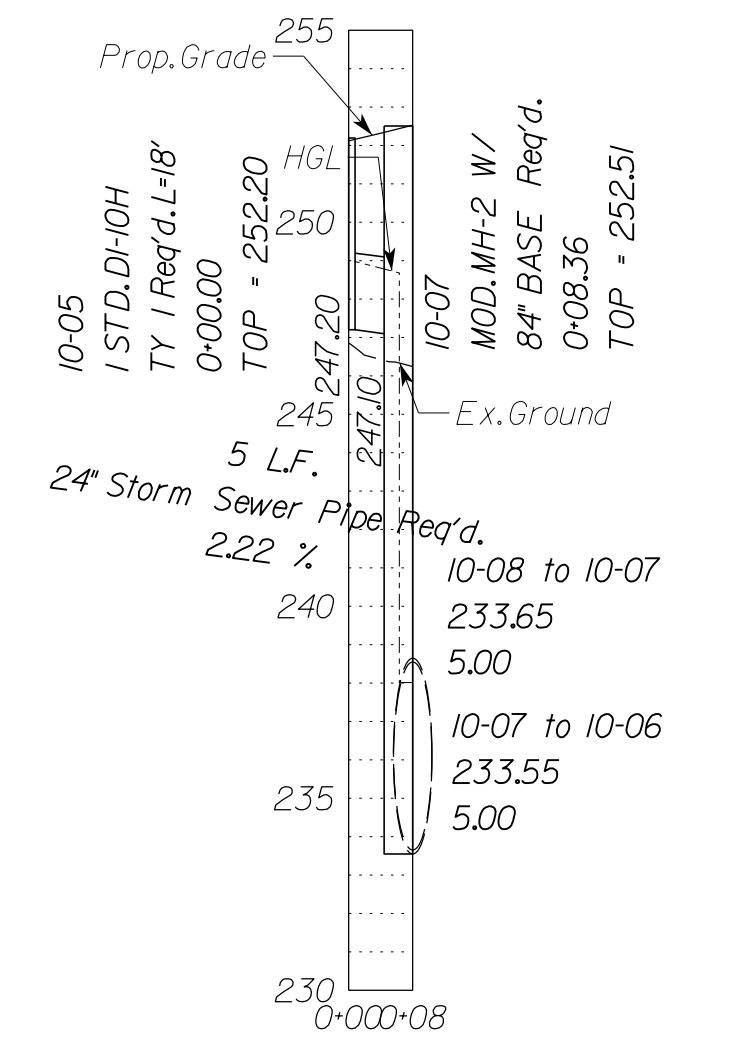
Stormsewer Profile 10-01 to 10-02



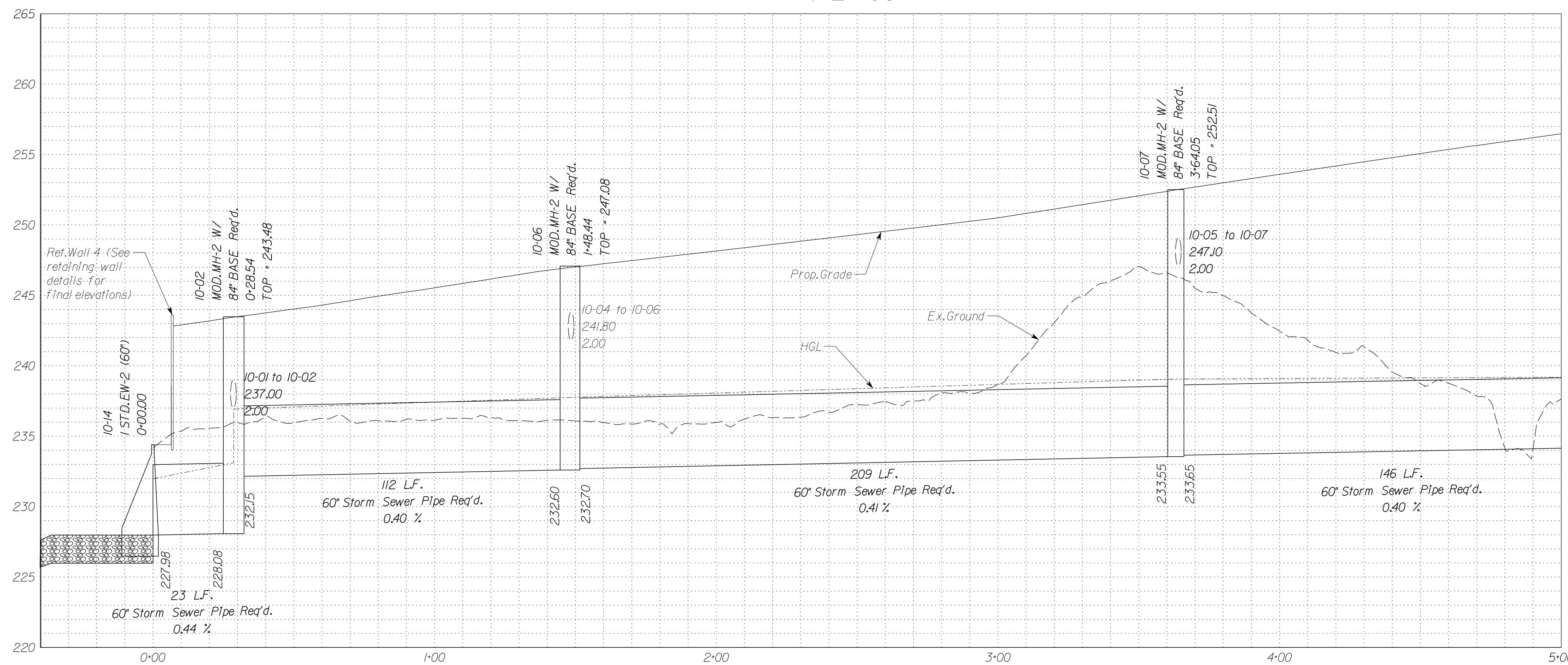
Stormsewer Profile 10-04 to 10-06



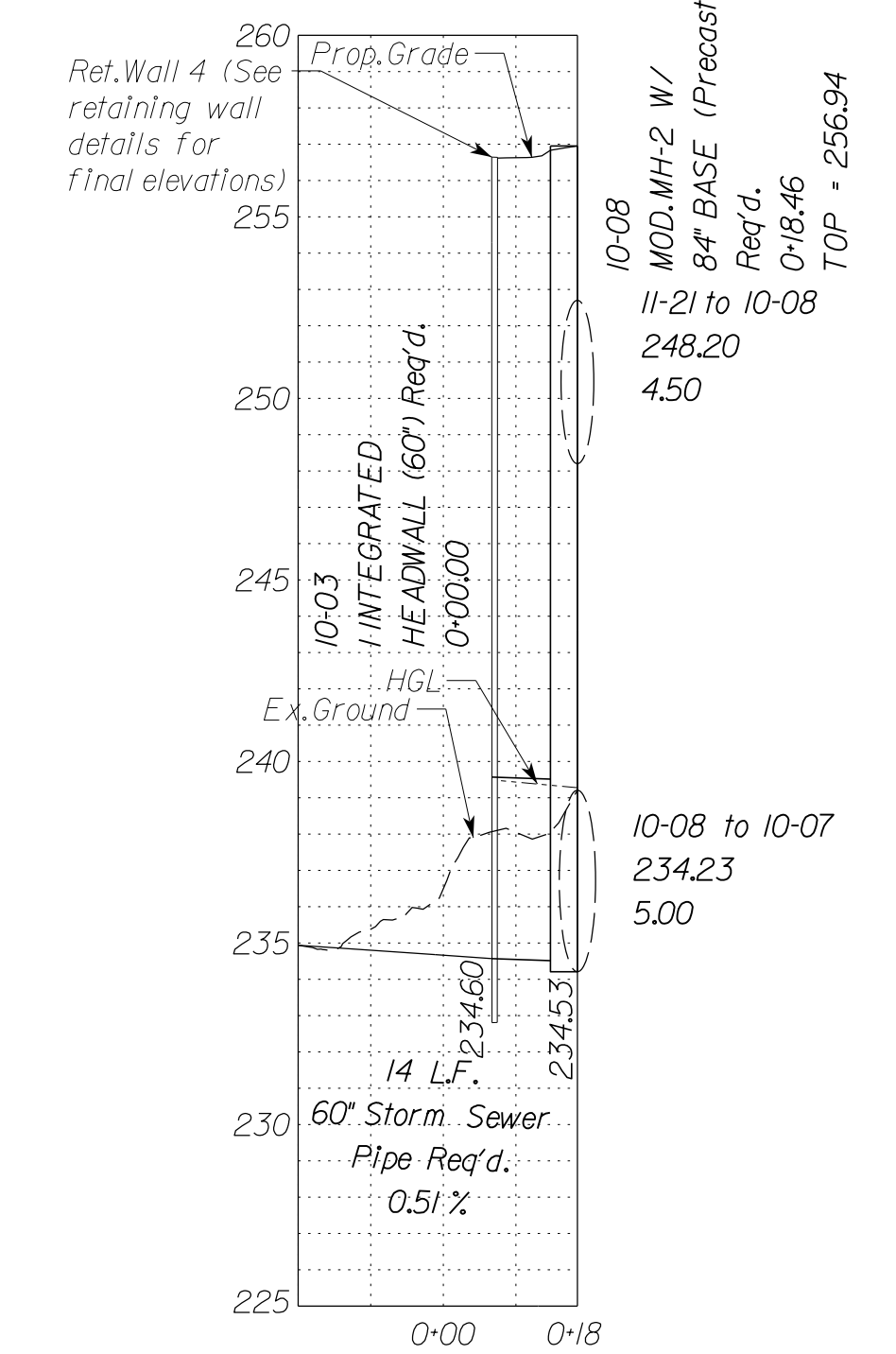
Stormsewer Profile 10-05 to 10-07



Stormsewer Profile 10-14 to EX183

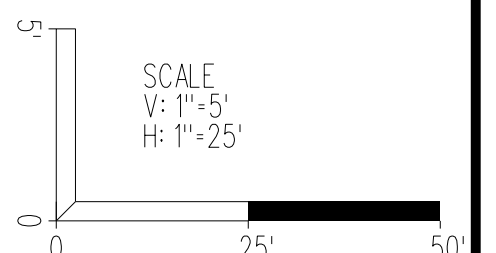


Stormsewer Profile 10-03 to 10-08



Match Line Sta. 5:00 See Sheet 2L1011A

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. 2L1010A AREA 3
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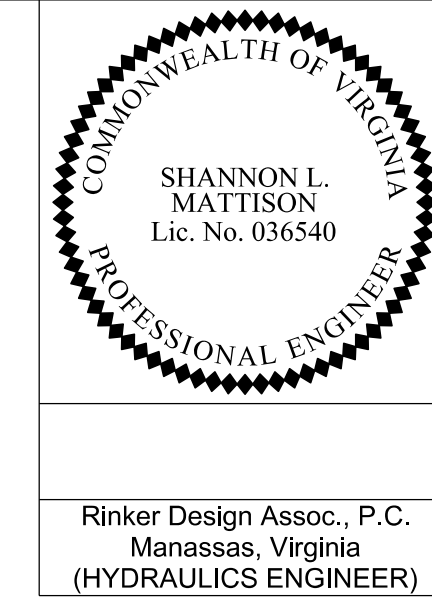
APPROVED FOR CONSTRUCTION

NOVA DISTRICT



PROJECT MANAGER\_VDOT - Rupal Shah, P.E. (703) 259-2362  
SURVEYED BY, DATE\_RDA - Nicholas Kougoullis, 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

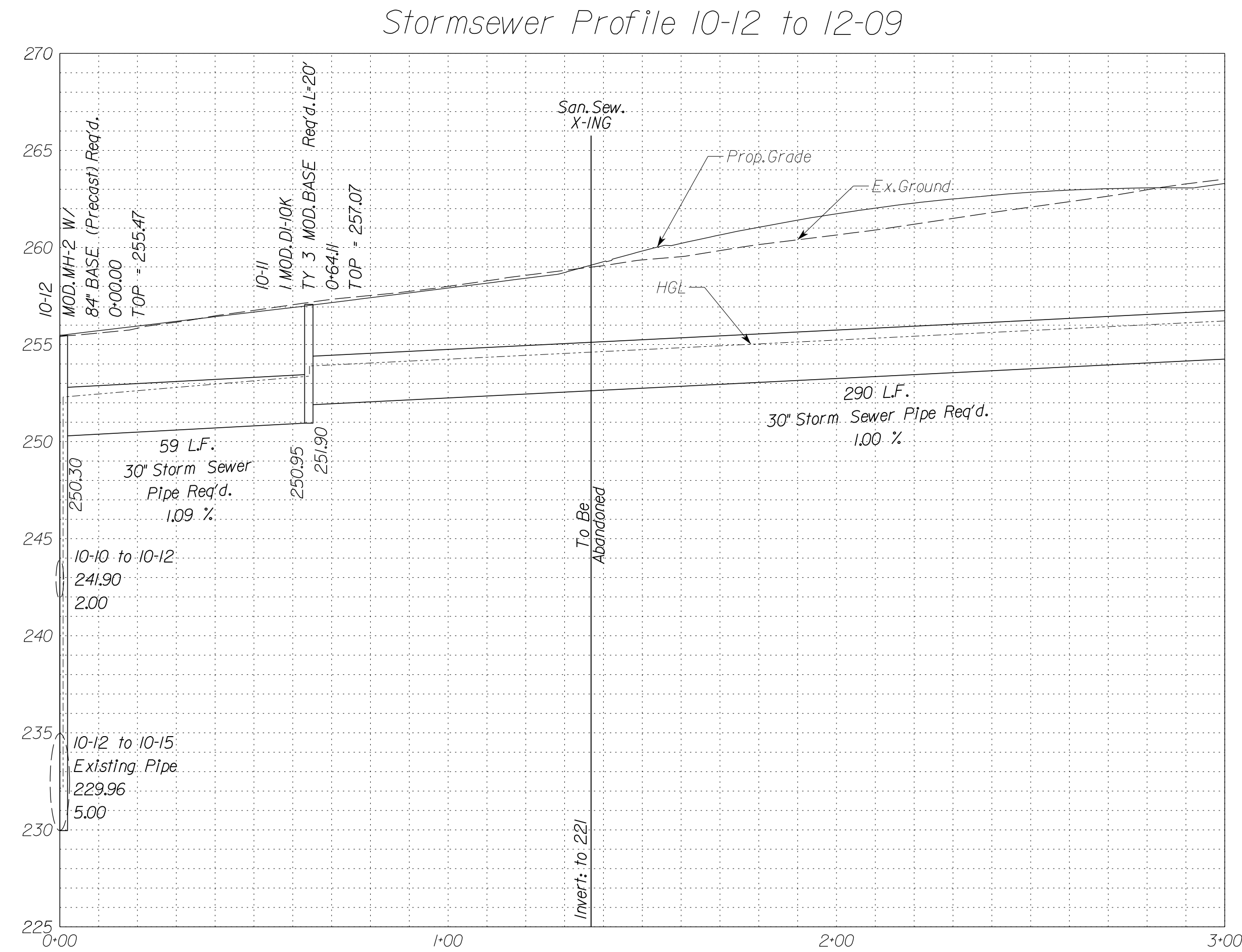
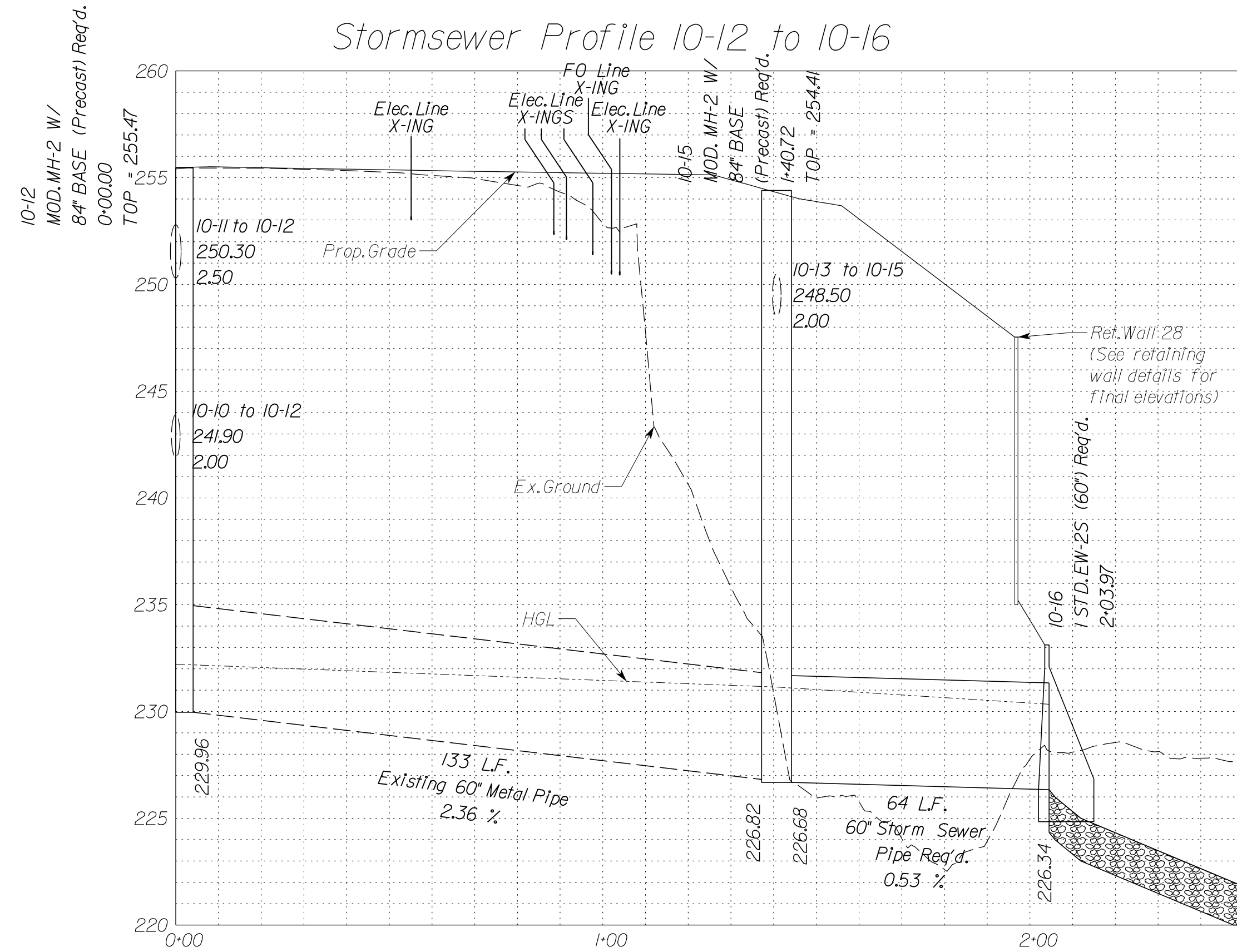
# Storm Sewer Profiles



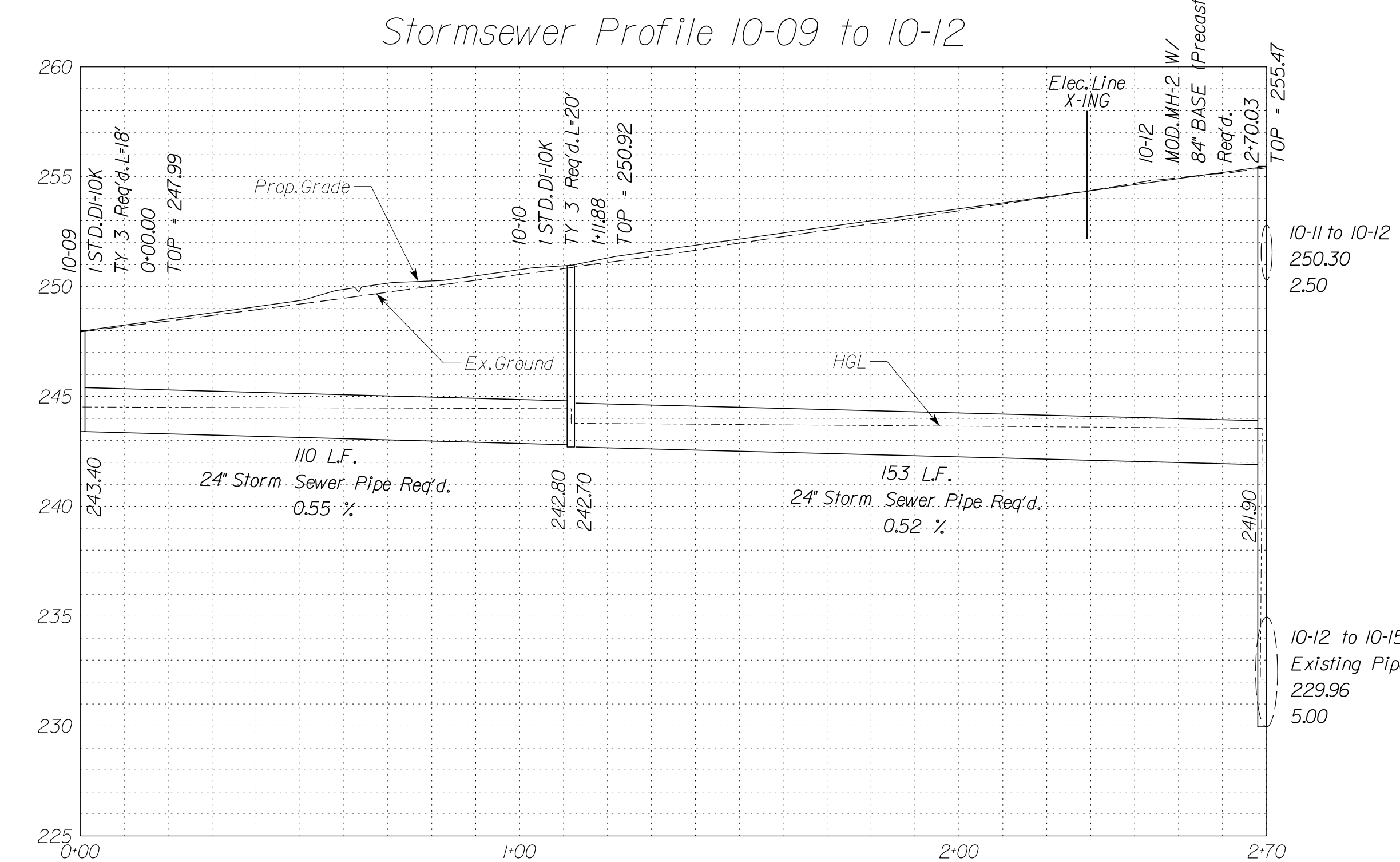
REVISED	STATE	ROUTE	STATE	VDOT PROJECT NO.	SHEET NO.
	VA.	495		0495-029-419 C501 RW201	2L101B AREA 3

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)

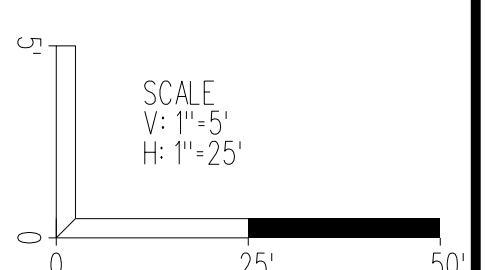


Match Line Sta. 3+00 See Sheet 2L101C



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. 2L101B AREA 3
----------------------------------	-------------------------------

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\_Accumark - Michael Taylor, LS, (703) 635-3060, 12/2021

# Storm Sewer Profiles

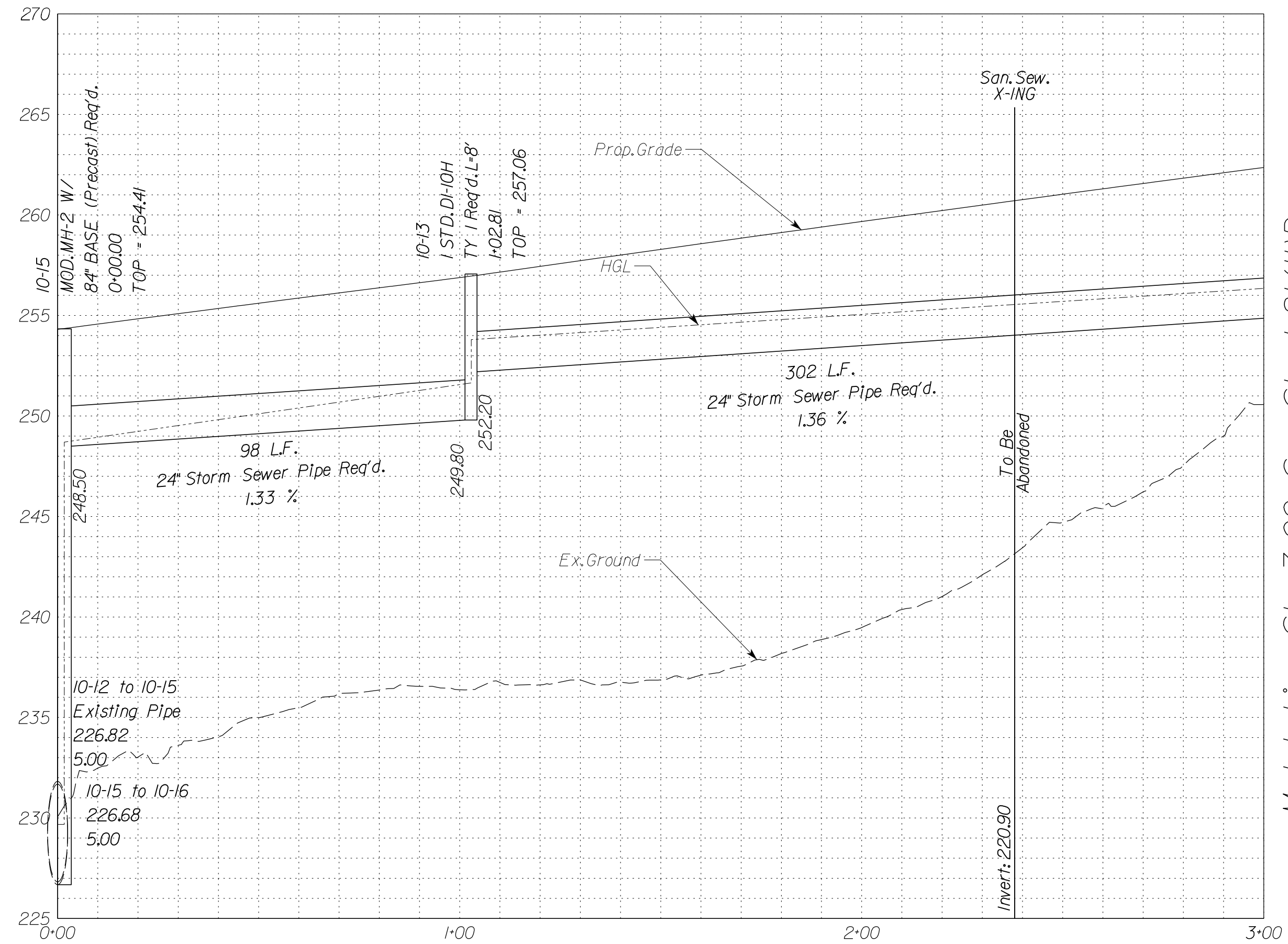
SHANNON L. MATTISON  
Lic. No. 036540  
COMMONWEALTH OF VIRGINIA  
PROFESSIONAL ENGINEER

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	2L1101C AREA 3

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 10-15 to 12-15

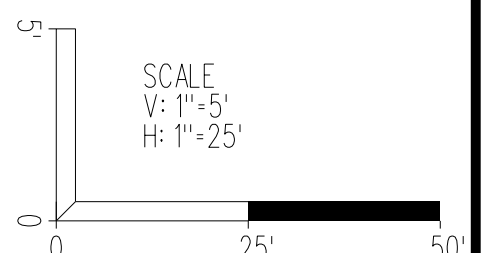


Match Line Sta. 3+00 See Sheet 2L111D

NOVA DISTRICT

10/16/2022

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. 2L1101C AREA 3
----------------------------------	--------------------------------

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

# Storm Sewer Profiles

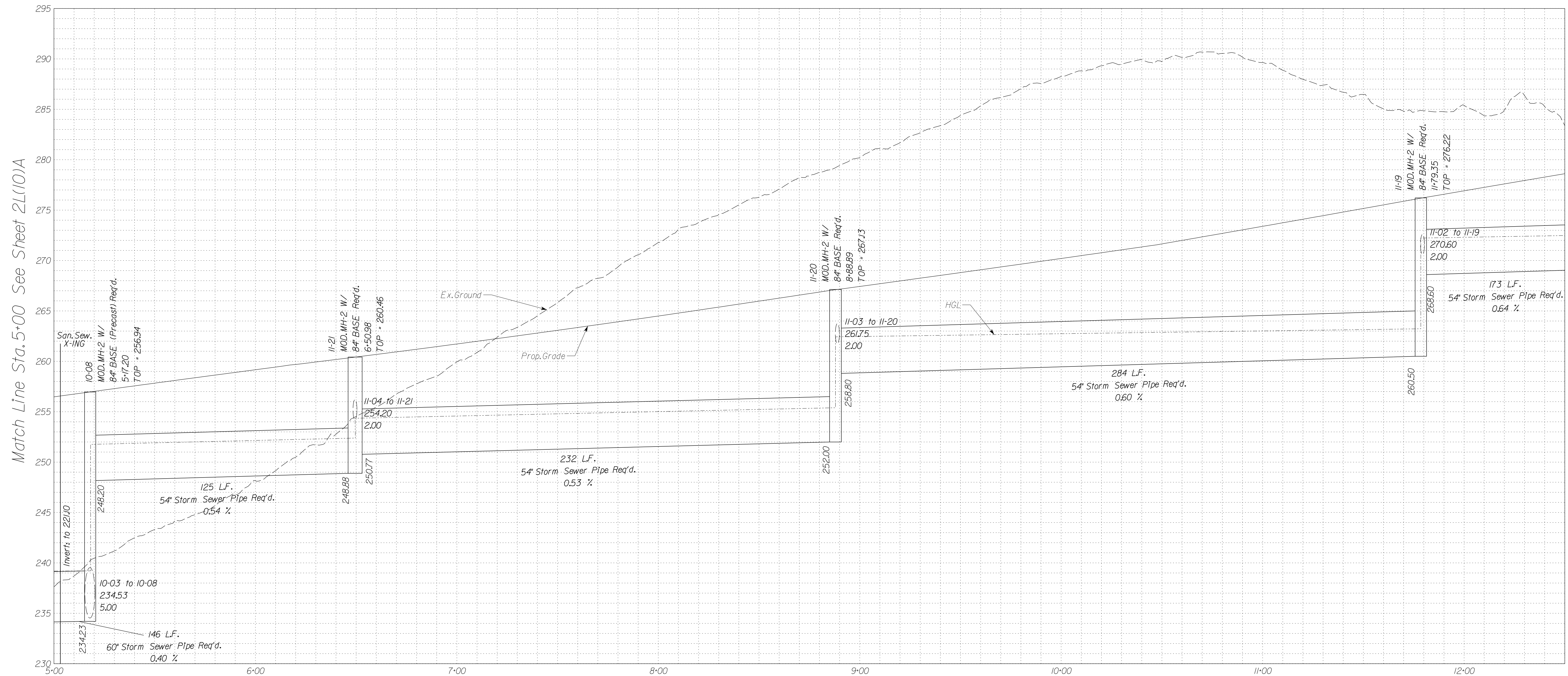
COMMONWEALTH OF VIRGINIA  
PROFESSIONAL ENGINEER  
SHANNON L. MATTISON  
Lic. No. 036540

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(III)A AREA 3

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 10-14 to EX183



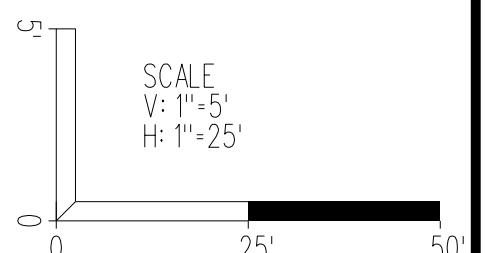
Match Line Sta. 5+00 See Sheet 2L(II)A

Match Line Sta. 12+50 See Sheet 2L(III)B

NOVA DISTRICT

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.



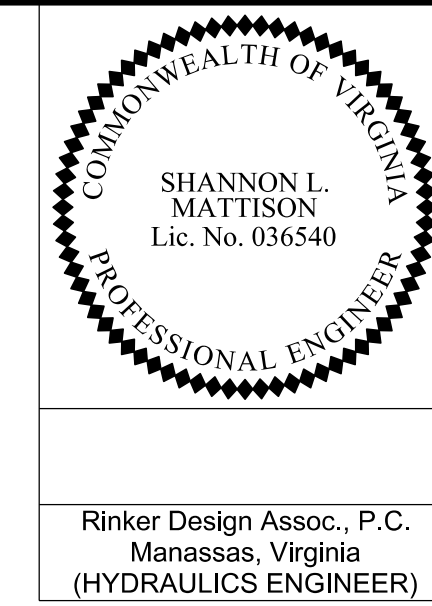
VDOT PROJECT NO. 0495-029-419	SHEET NO. 2L(III)A AREA 3
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APPROVED FOR CONSTRUCTION



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 Accumark - Michael Taylor, L.S. (703) 635-3060, 12/2021

# Storm Sewer Profiles

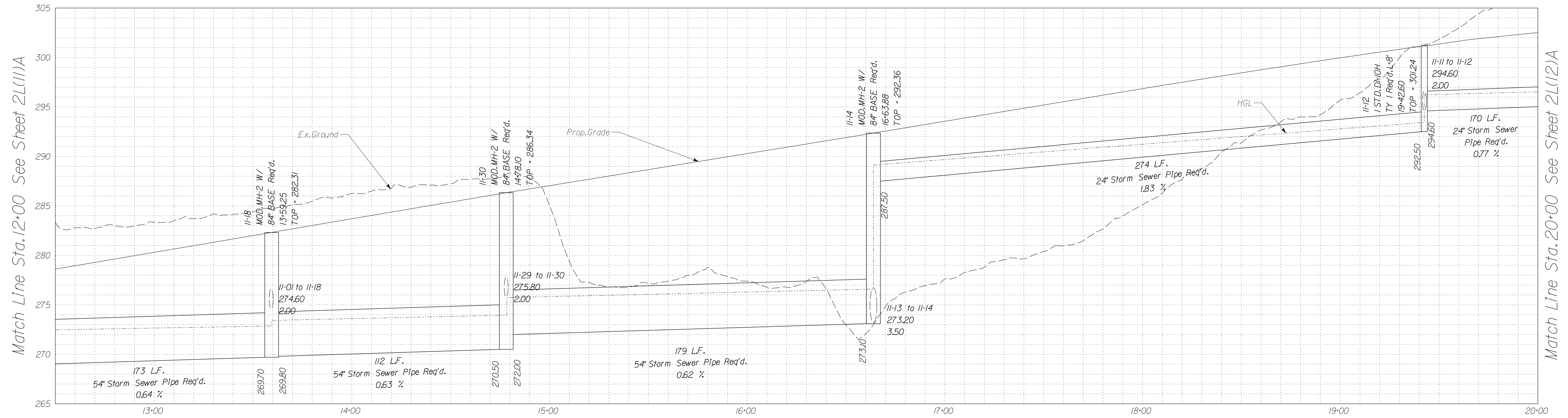


REVISED	STATE	ROUTE	STATE	VDOT PROJECT NO.	SHEET NO.
	VA.	495		0495-029-419 C501 RW201	2L1111B AREA 3

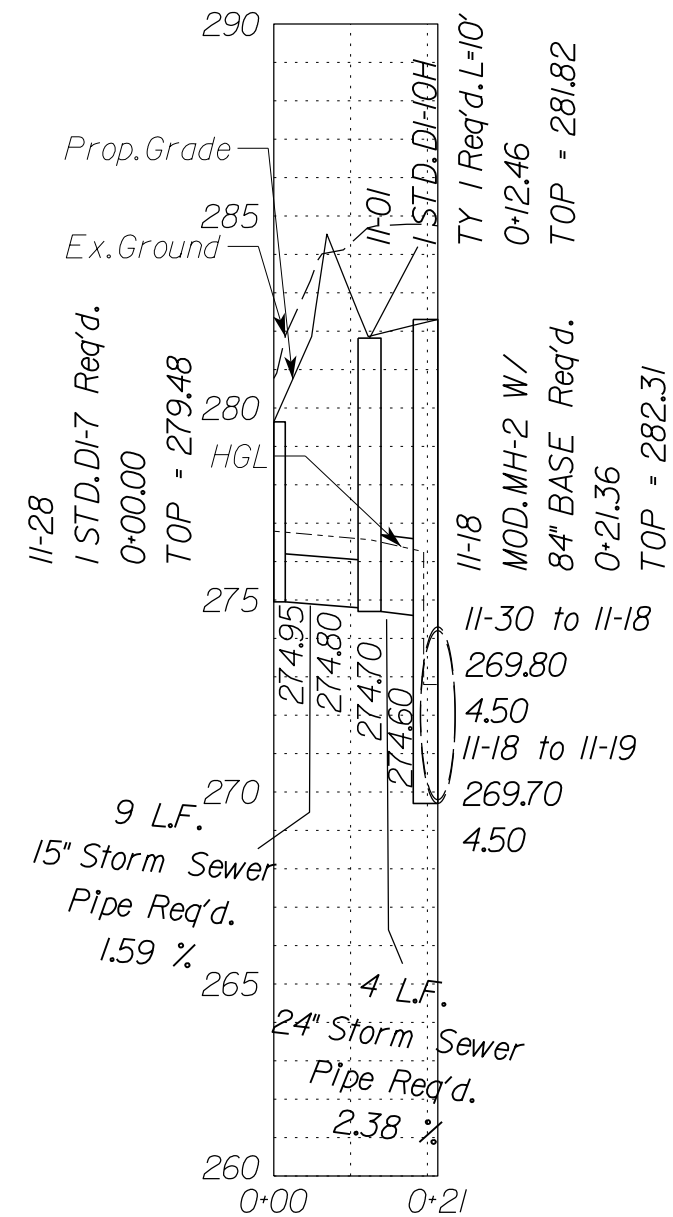
DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT

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

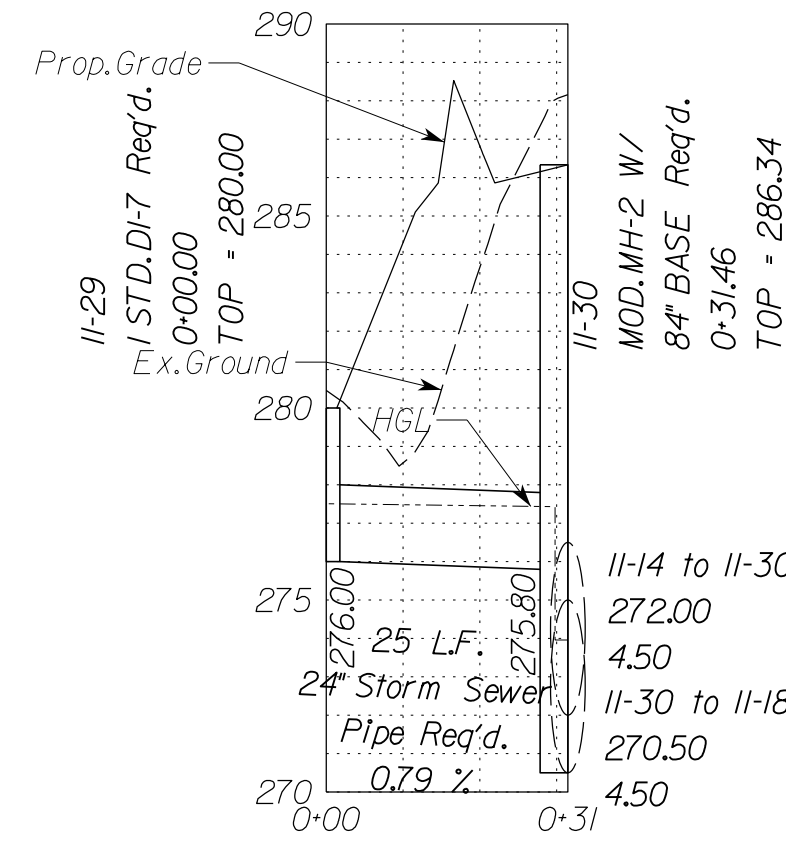
Stormsewer Profile 10-14 to EX183



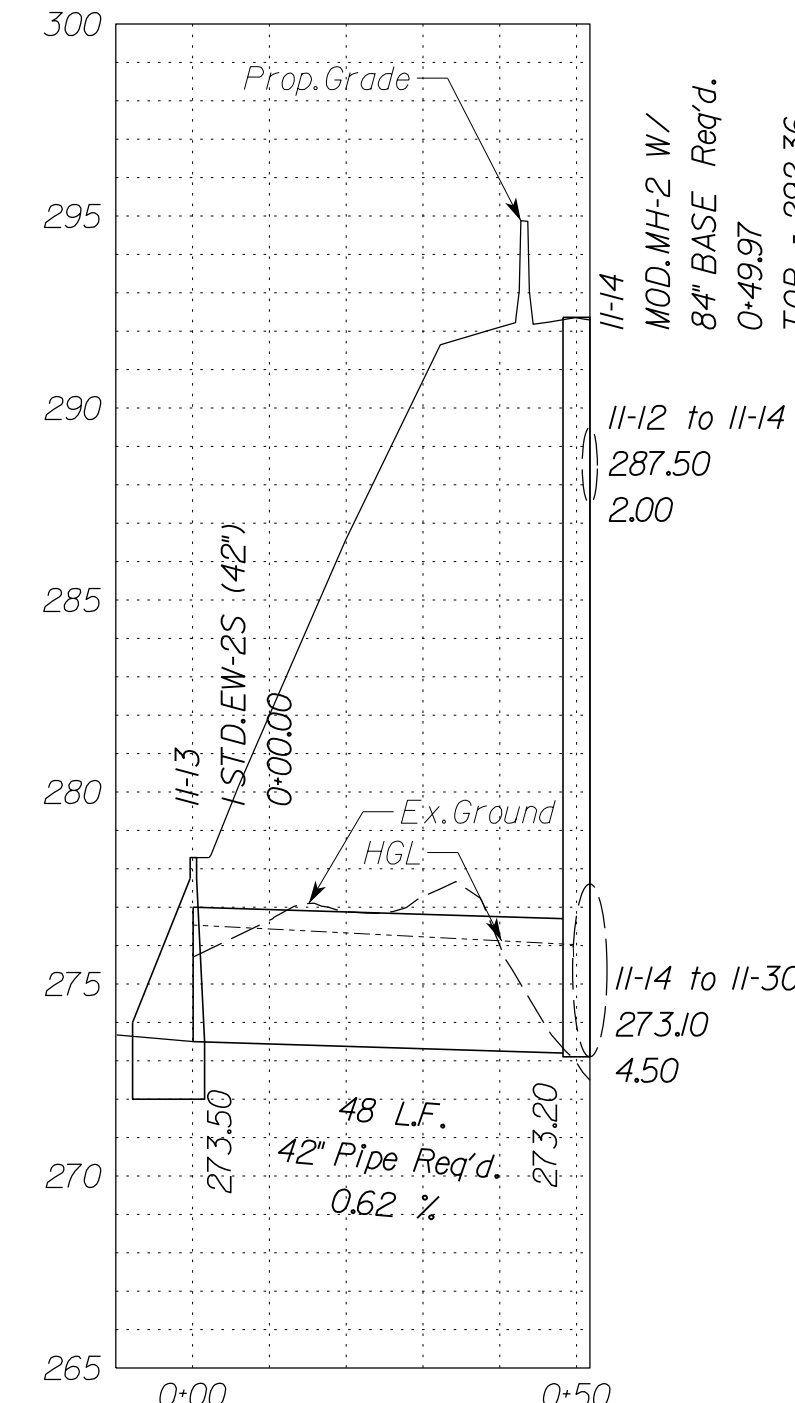
Stormsewer Profile 11-28 to 11-18



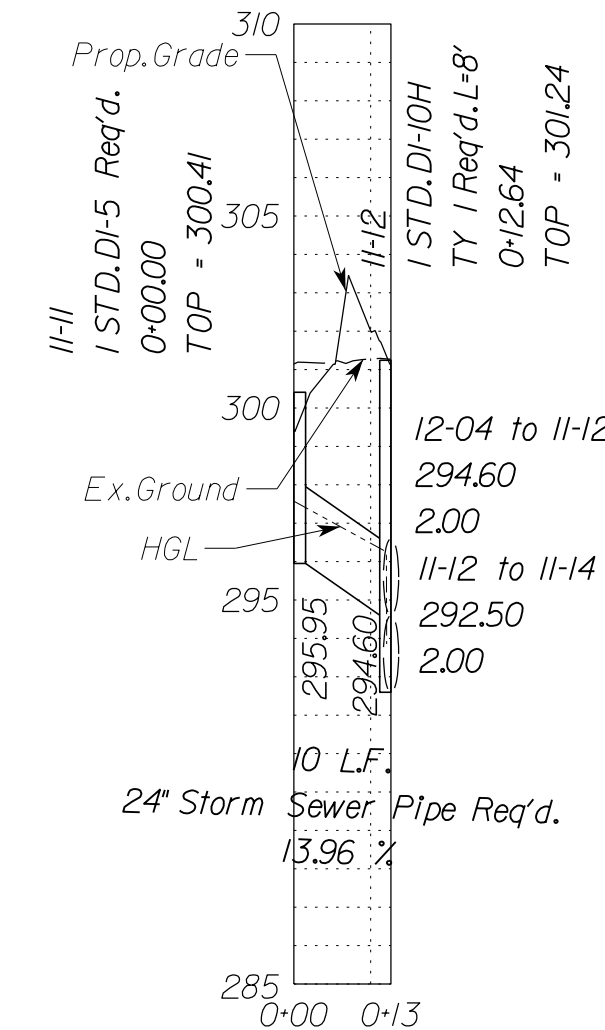
Stormsewer Profile 11-29 to 11-30



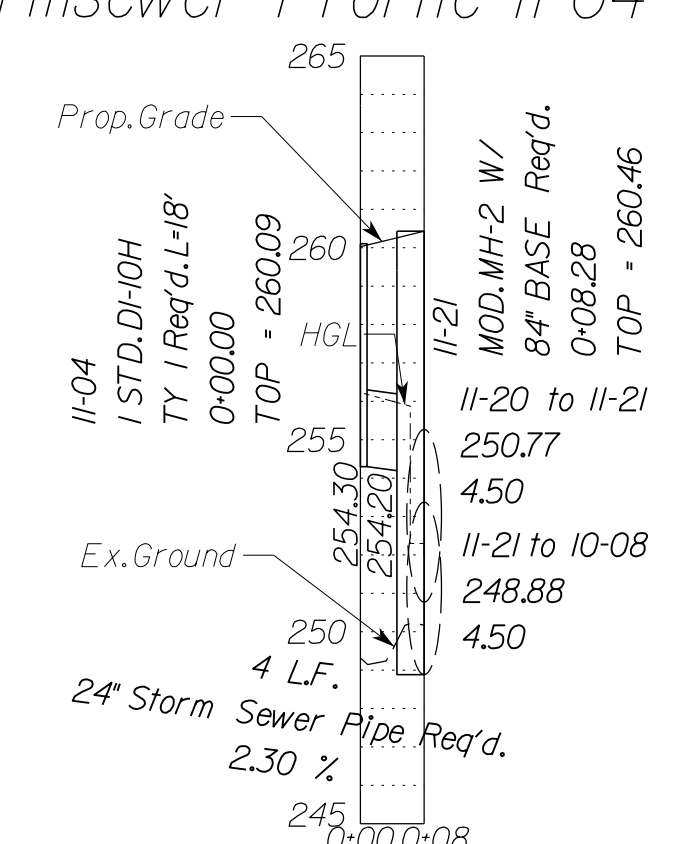
Stormsewer Profile 11-13 to 11-14



Stormsewer Profile 11-11 to 11-12

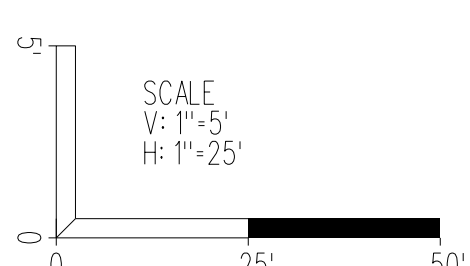


Stormsewer Profile 11-04 to 11-21



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. 2L1111B AREA 3
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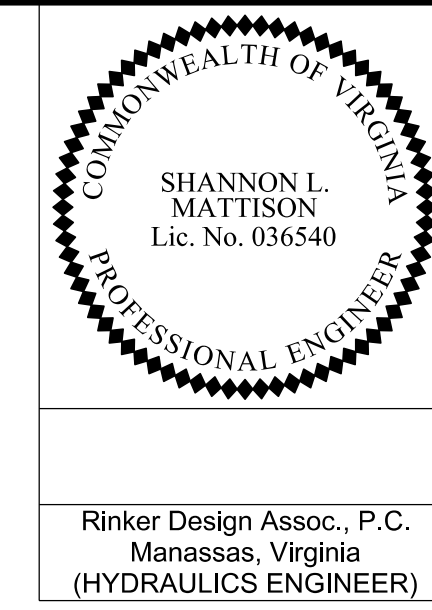
APPROVED FOR CONSTRUCTION

NOVA DISTRICT



PROJECT MANAGER VDOT - Rupal Shah, P.E. (703) 259-2362  
 SURVEYED BY, DATE RDA - Nicholas Kaugaulis, L.S. (703) 334-0837, 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

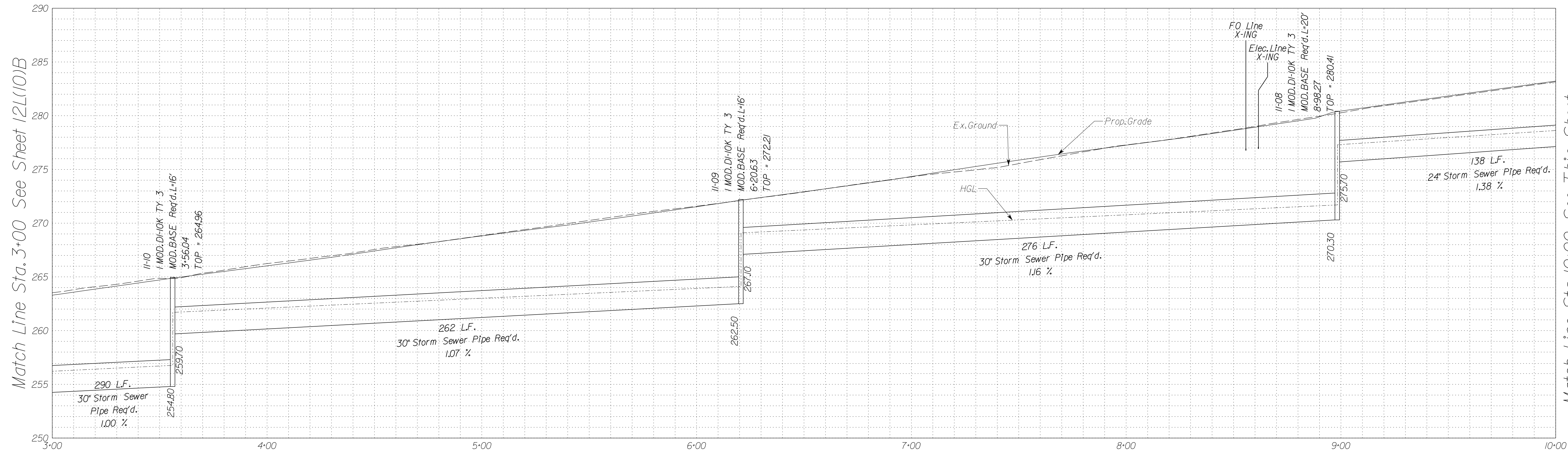
# Storm Sewer Profiles



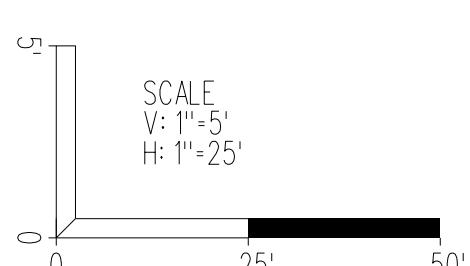
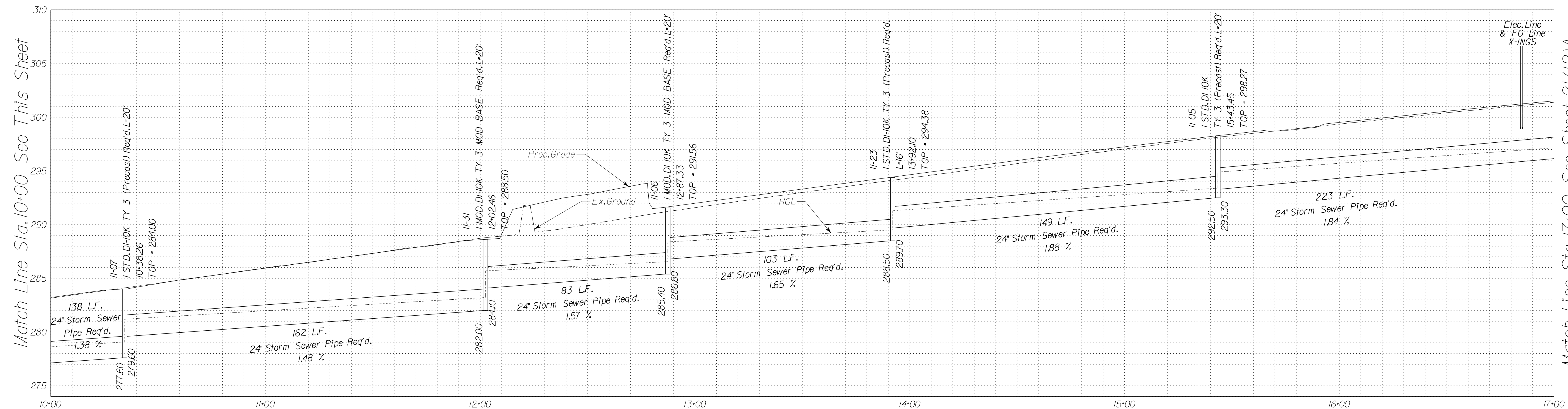
REVISED	STATE	ROUTE	STATE	VDOT PROJECT NO.	SHEET NO.
	VA	495		0495-029-419 C501 RW201	2L111C AREA 3

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 10-12 to 12-09



Stormsewer Profile 10-12 to 12-09



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.

VDOT PROJECT NO. 0495-029-419	SHEET NO. 2L111C AREA 3
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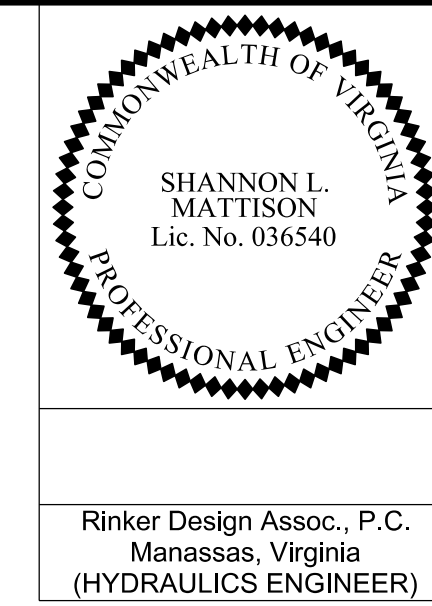
APPROVED FOR CONSTRUCTION

NOVA DISTRICT



PROJECT MANAGER VDOT - Rupal Shah, P.E. (703) 259-2362  
SURVEYED BY, DATE RDA - Nicholas Kougoullis, 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

# Storm Sewer Profiles

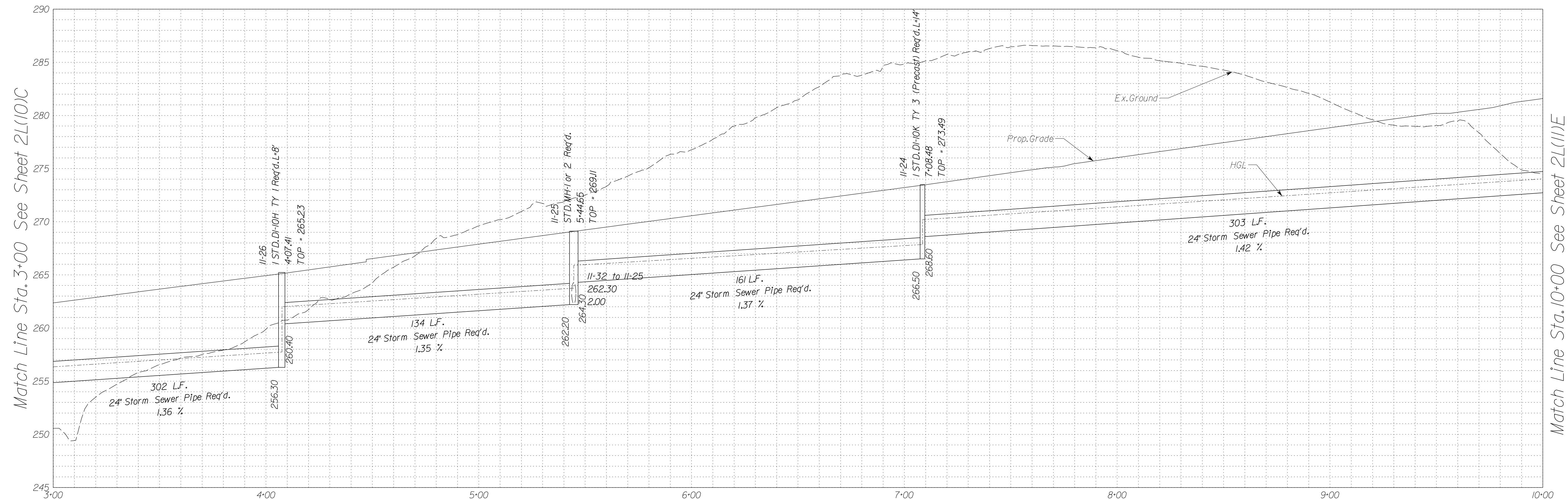


REVISED	STATE	ROUTE	STATE	VDOT PROJECT NO.	SHEET NO.
	VA	495		0495-029-419 C501 RW201	2L1111D AREA 3

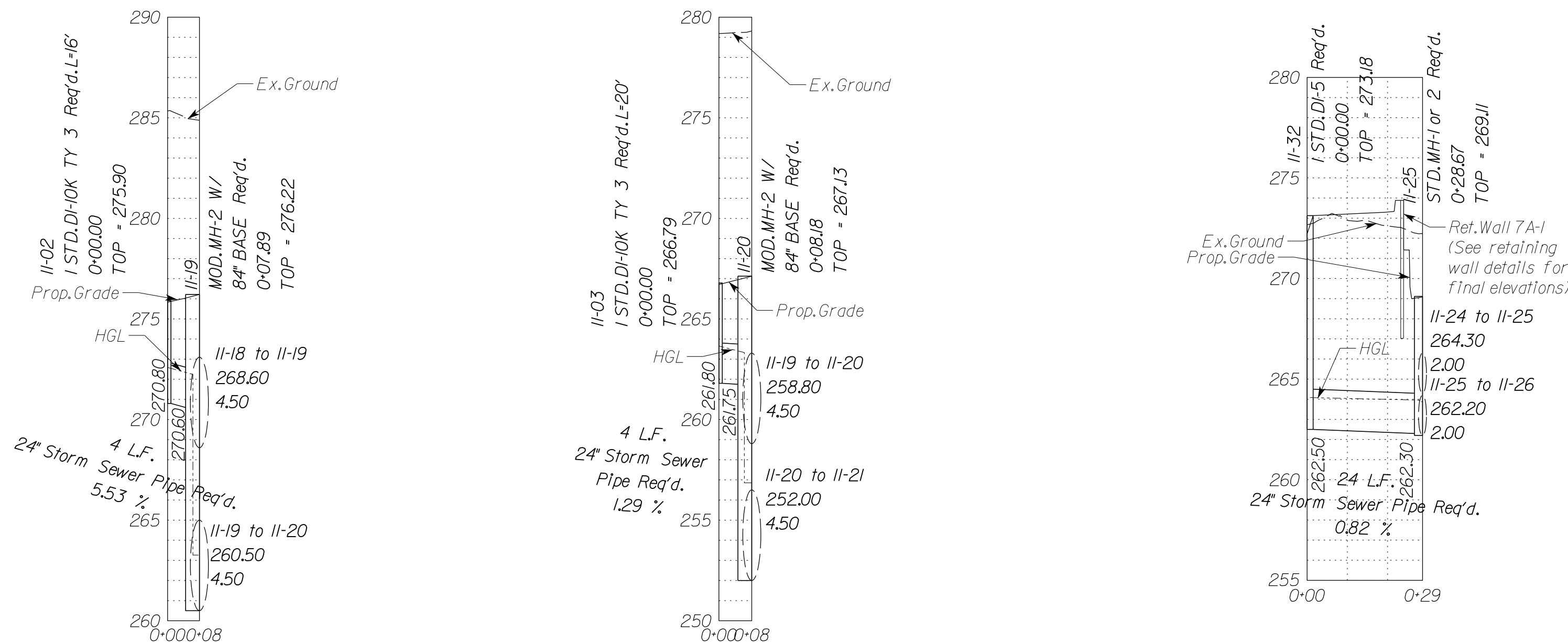
DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT

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

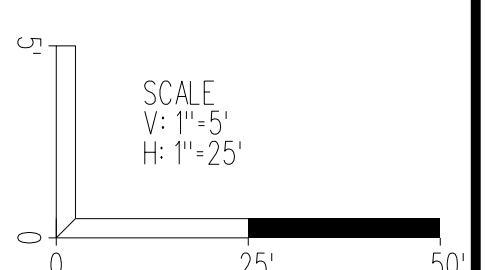
Stormsewer Profile 10-15 to 12-15



Stormsewer Profile 11-02 to 11-19 Stormsewer Profile 11-03 to 11-20 Stormsewer Profile 11-32 to 11-25



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. 2L1111D AREA 3
----------------------------------	--------------------------------

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 Accurmark - Michael Taylor, L.S. (703) 635-3060, 12/2021

# Storm Sewer Profiles

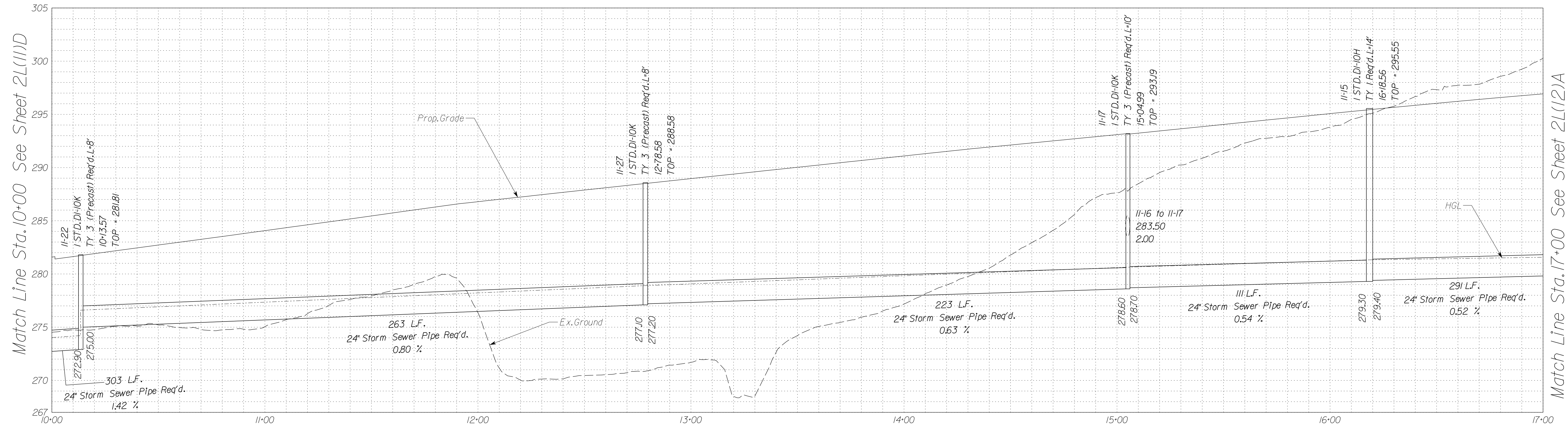
SHANNON L. MATTISON  
 Lic. No. 036540  
 PROFESSIONAL ENGINEER

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

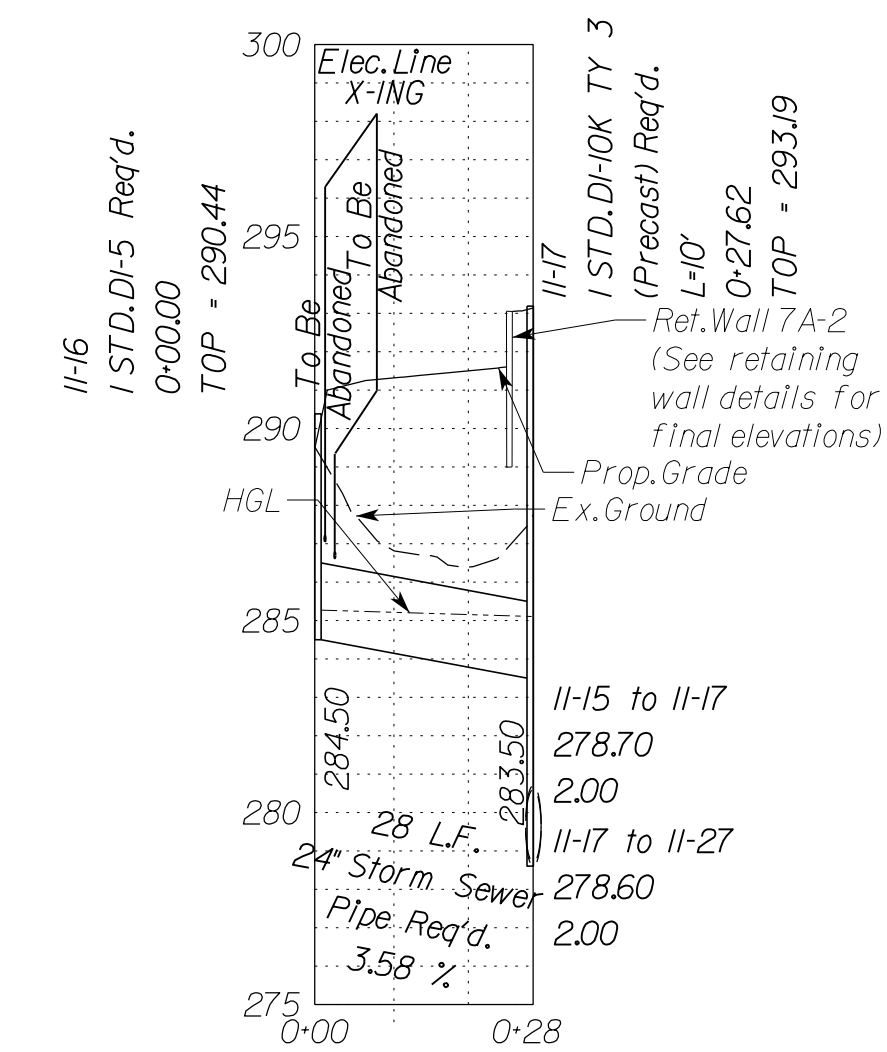
REVISED	STATE	ROUTE	STATE	VDOT PROJECT NO.	SHEET NO.
	VA.	495		0495-029-419 C501 RW201	2L(III) AREA 3

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 10-15 to 12-15

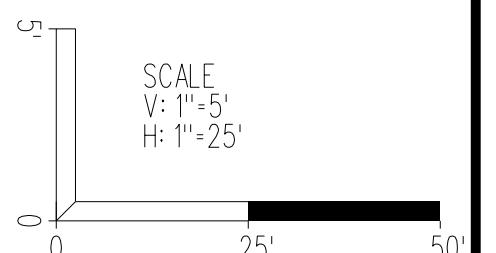


Stormsewer Profile 11-16 to 11-17



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(III) AREA 3
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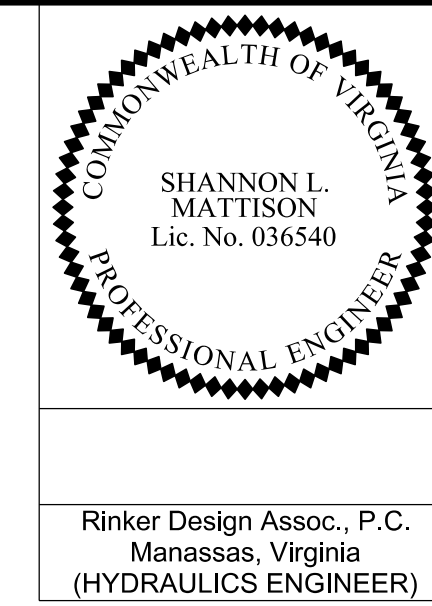
APPROVED FOR CONSTRUCTION

NOVA DISTRICT



PROJECT MANAGER VDOT - Rupal Shah, P.E. (703) 259-2362  
 SURVEYED BY, DATE RDA - Nicholas Kaugaulis, L.S. (703) 334-0837, 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

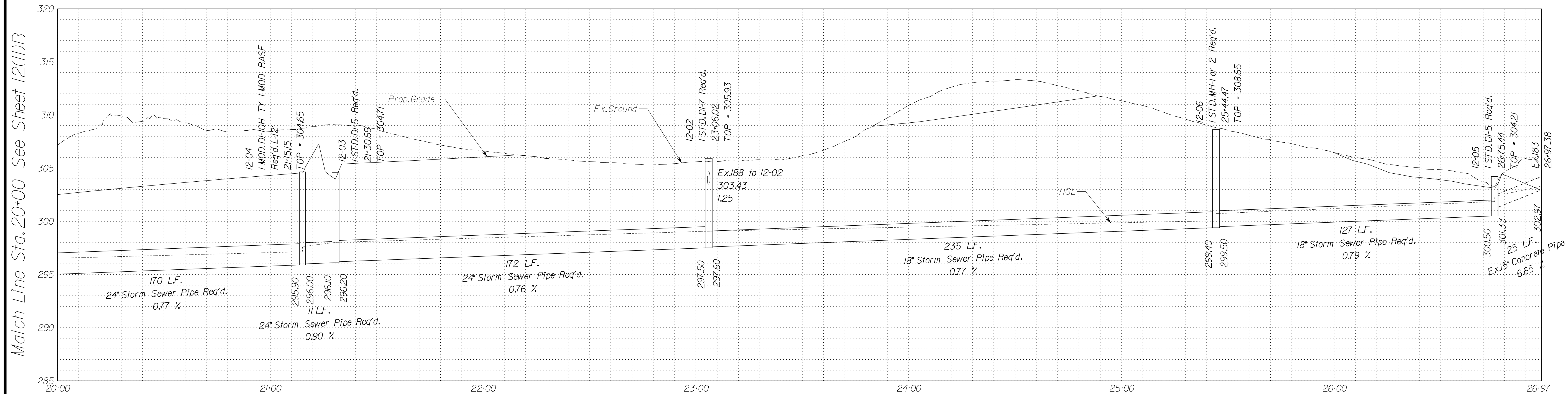


REVISED	STATE	ROUTE	STATE	VDOT PROJECT NO.	SHEET NO.
	VA.	495		0495-029-419 C501 RW201	2L121A AREA 3

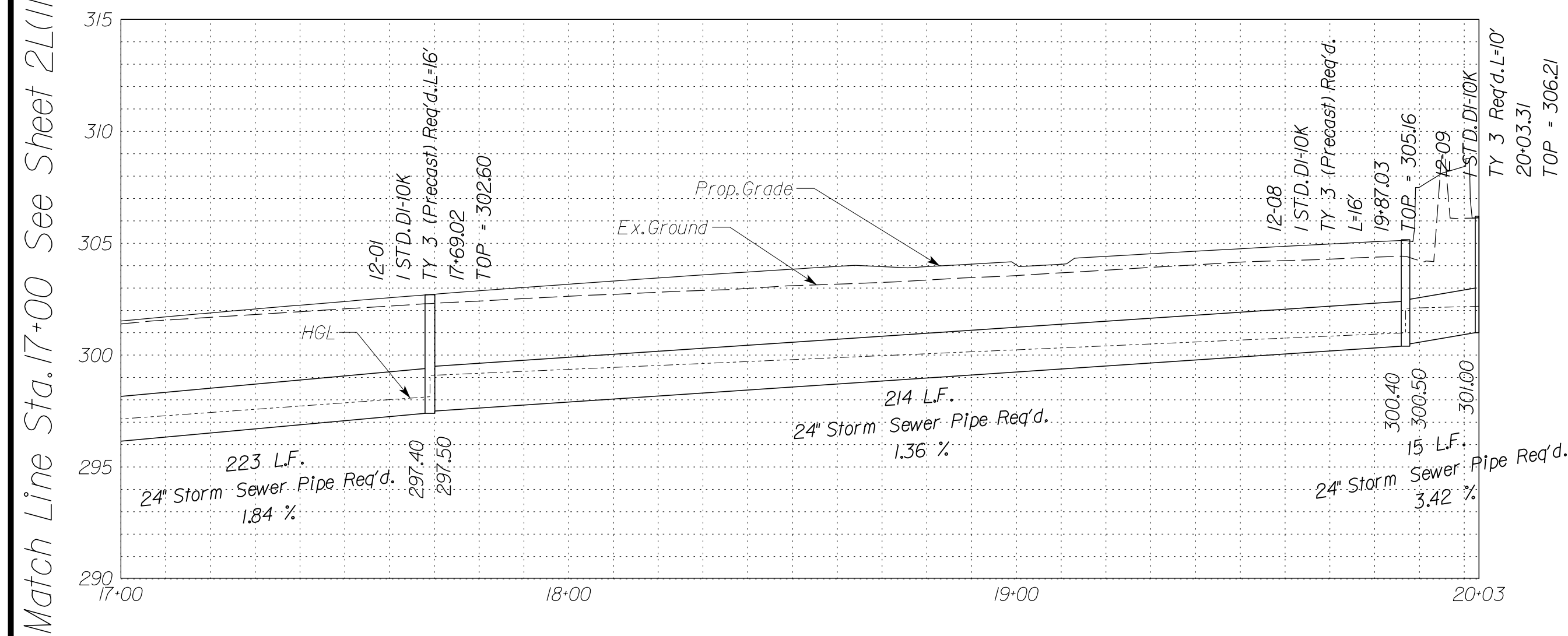
DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT

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

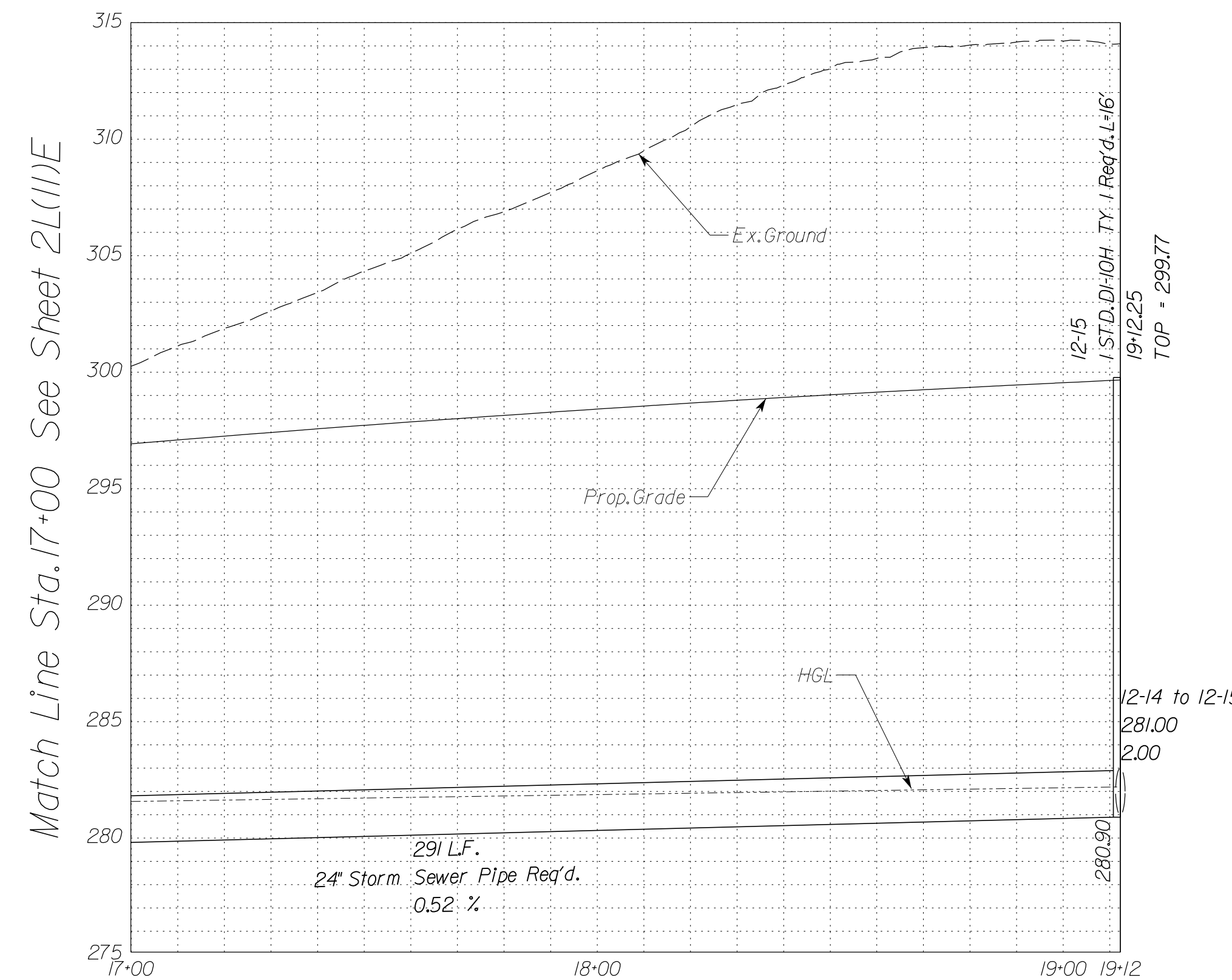
Stormsewer Profile 10-14 to EX183



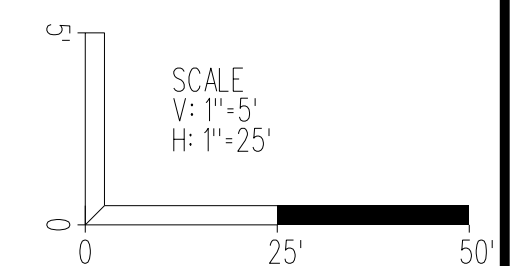
Stormsewer Profile 10-12 to 12-09



Stormsewer Profile 10-15 to 12-15



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. 2L121A AREA 3
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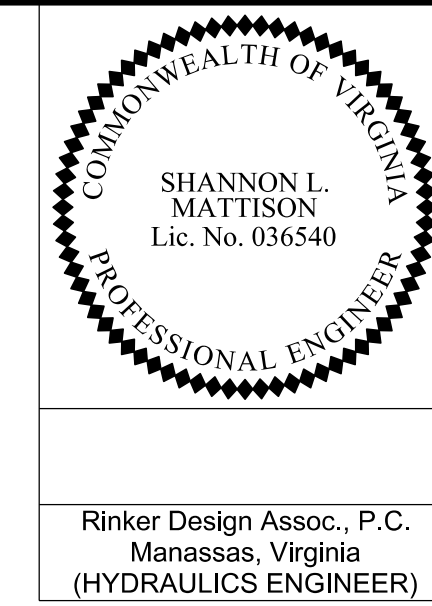
APPROVED FOR CONSTRUCTION

NOVA DISTRICT



PROJECT MANAGER\_VDOT - Rupal Shah, P.E. (703) 259-2362  
SURVEYED BY, DATE\_RDA - Nicholas Kougoullis, 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

# Storm Sewer Profiles

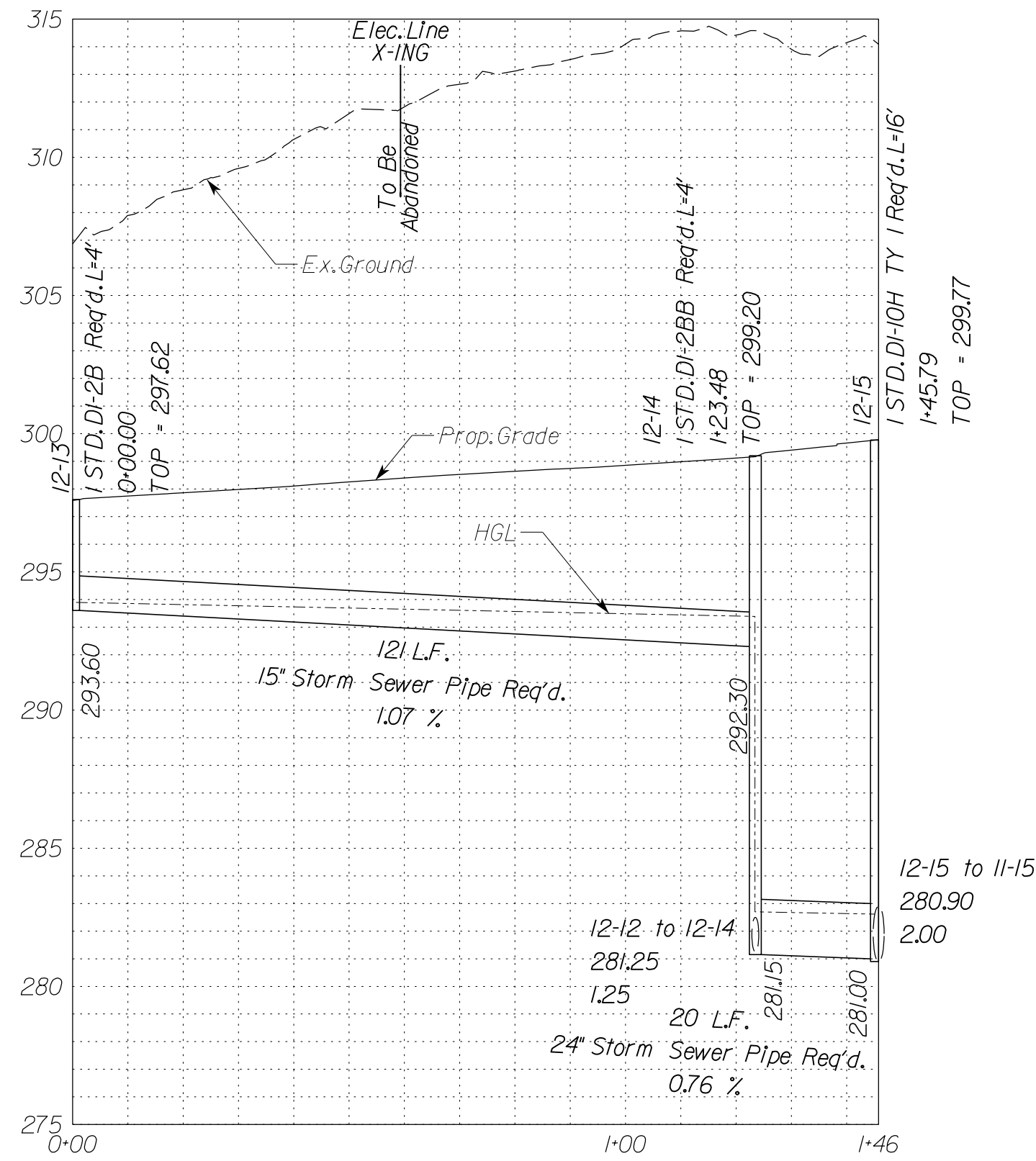


REVISED	STATE	ROUTE	STATE	VDOT PROJECT NO.	SHEET NO.
	VA.	495		0495-029-419 C501 RW201	2L1121B AREA 3

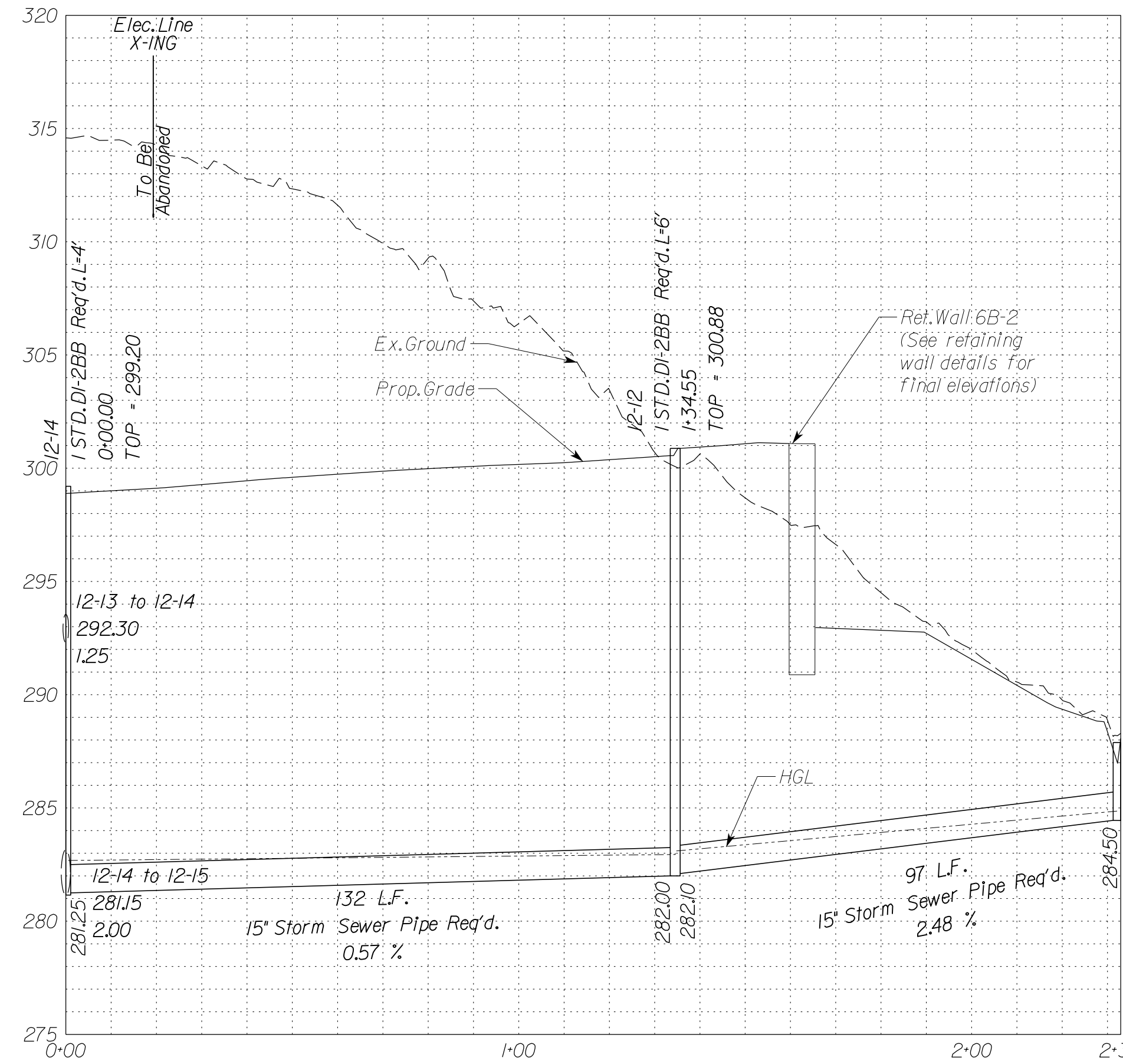
DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT

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

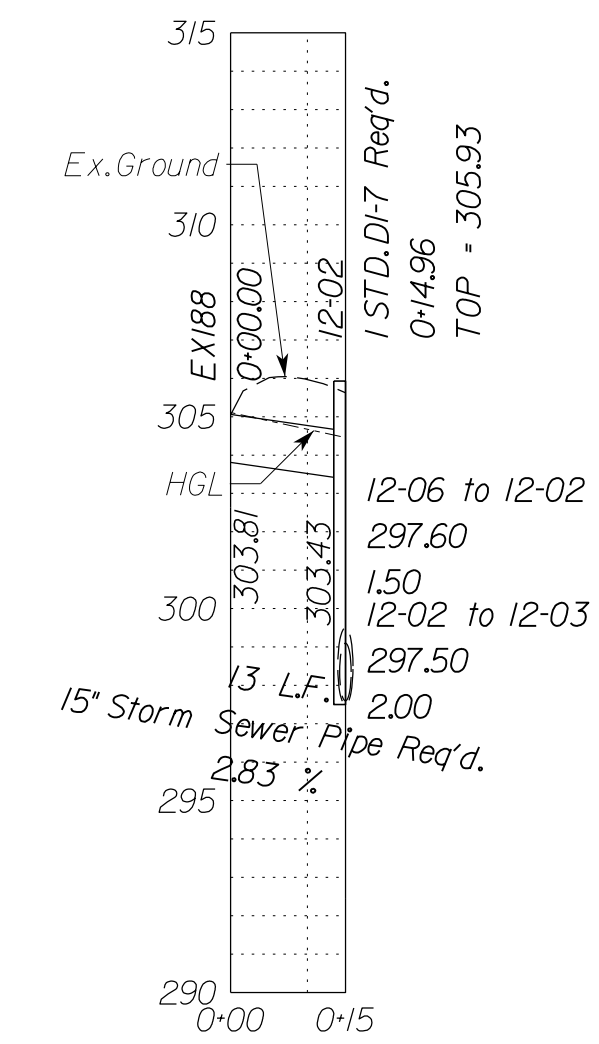
Stormsewer Profile 12-13 to 12-15



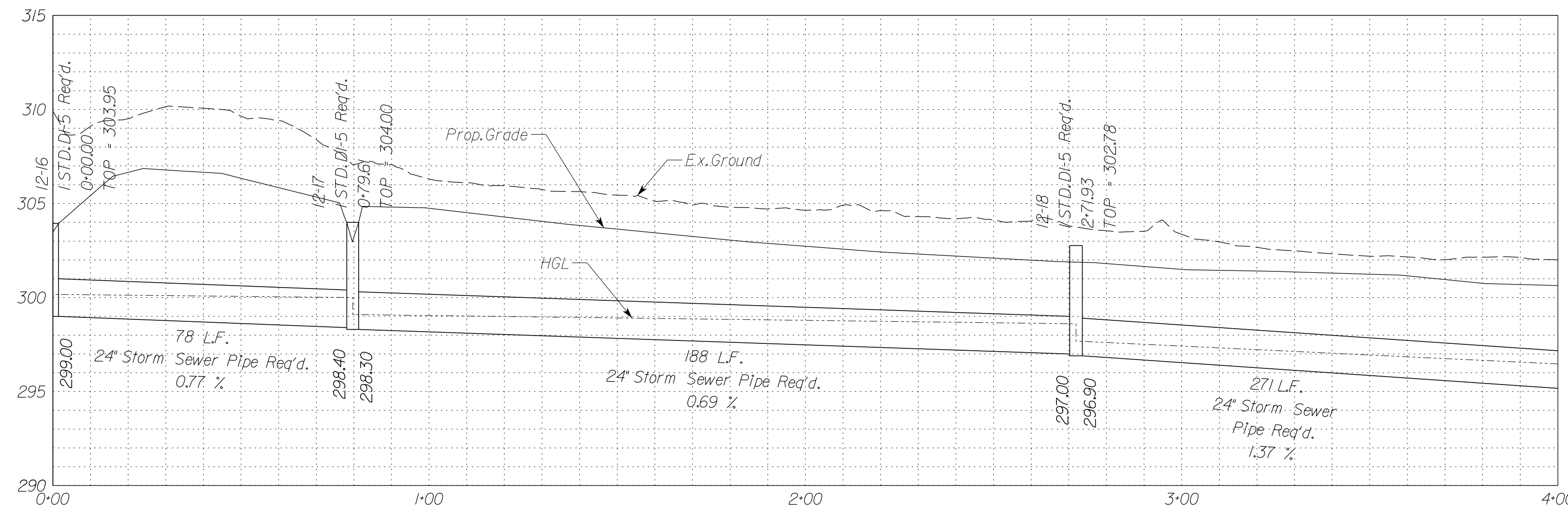
Stormsewer Profile 12-14 to 12-31



Stormsewer Profile EX188 to 12-02

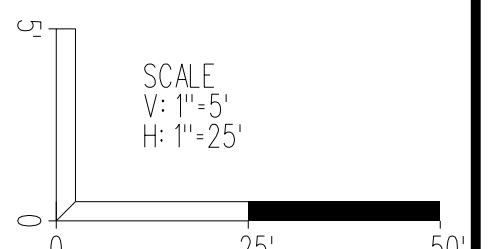


Stormsewer Profile 12-16 to 13-06



Match Line Sta. 4+00 See Sheet 2L1131A

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. 2L1121B AREA 3
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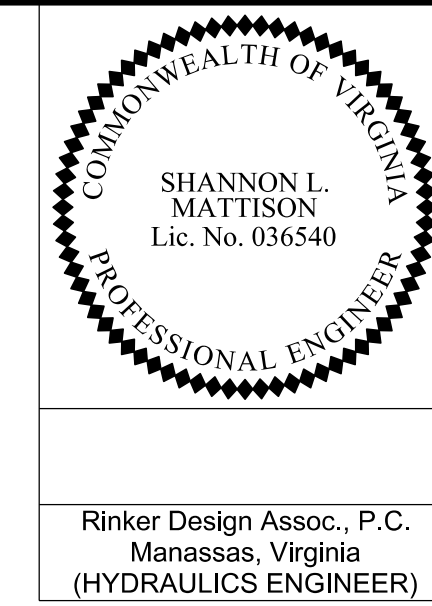
APPROVED FOR CONSTRUCTION

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

# Storm Sewer Profiles

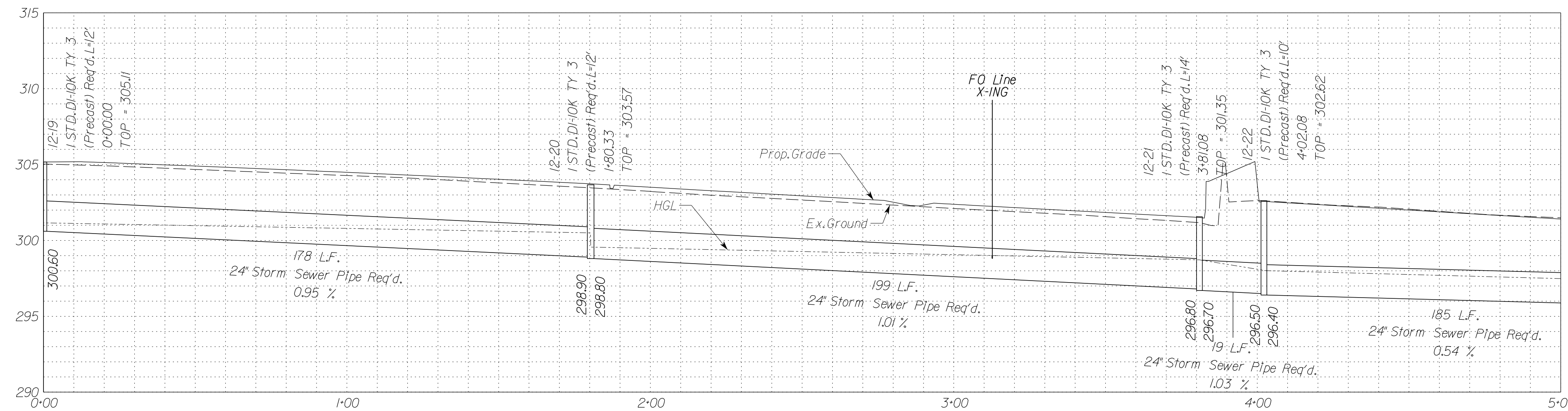


REVISED	STATE	ROUTE	STATE	VDOT PROJECT NO.	SHEET NO.
	VA	495		0495-029-419 C501 RW201	2L121C AREA 3

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

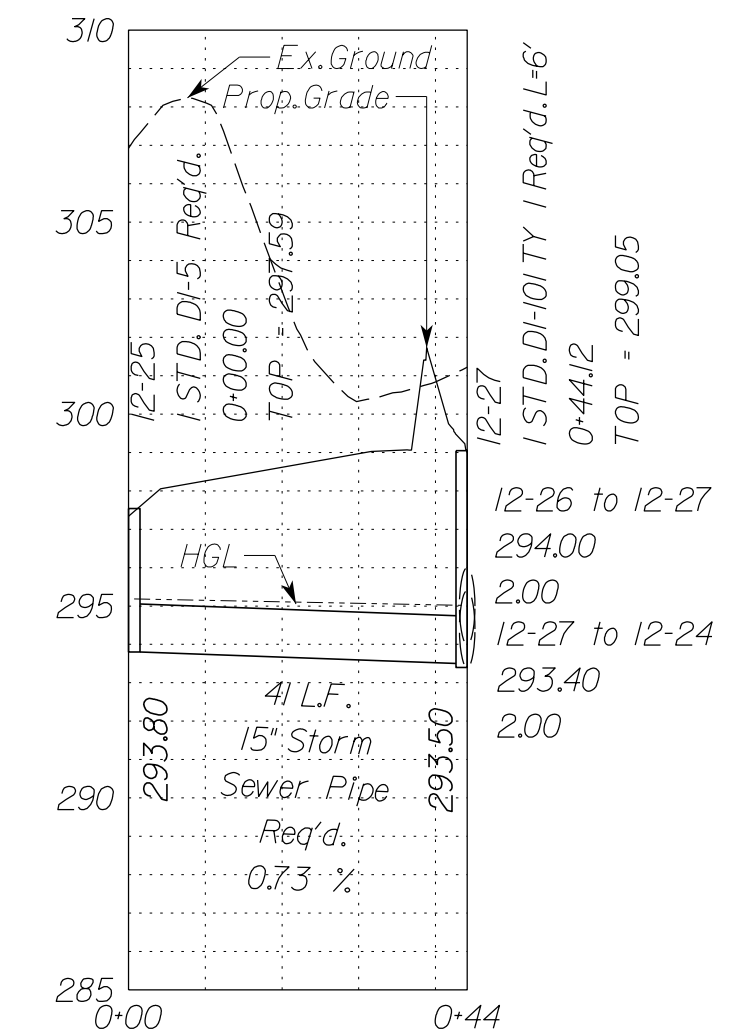
Rinker Design Assoc., P.C.  
Manassas, Virginia  
(HYDRAULICS ENGINEER)

Stormsewer Profile 12-19 to 17-15

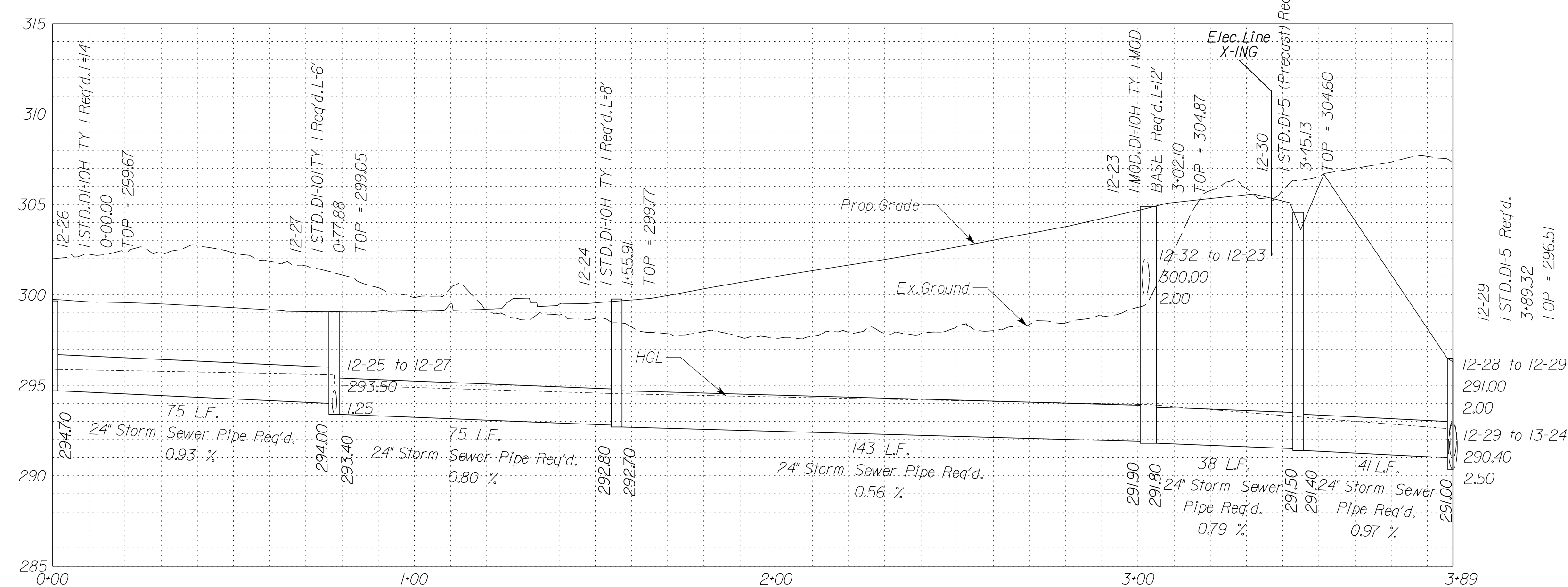


Match Line Sta. 5+00 Sheet 2L121E

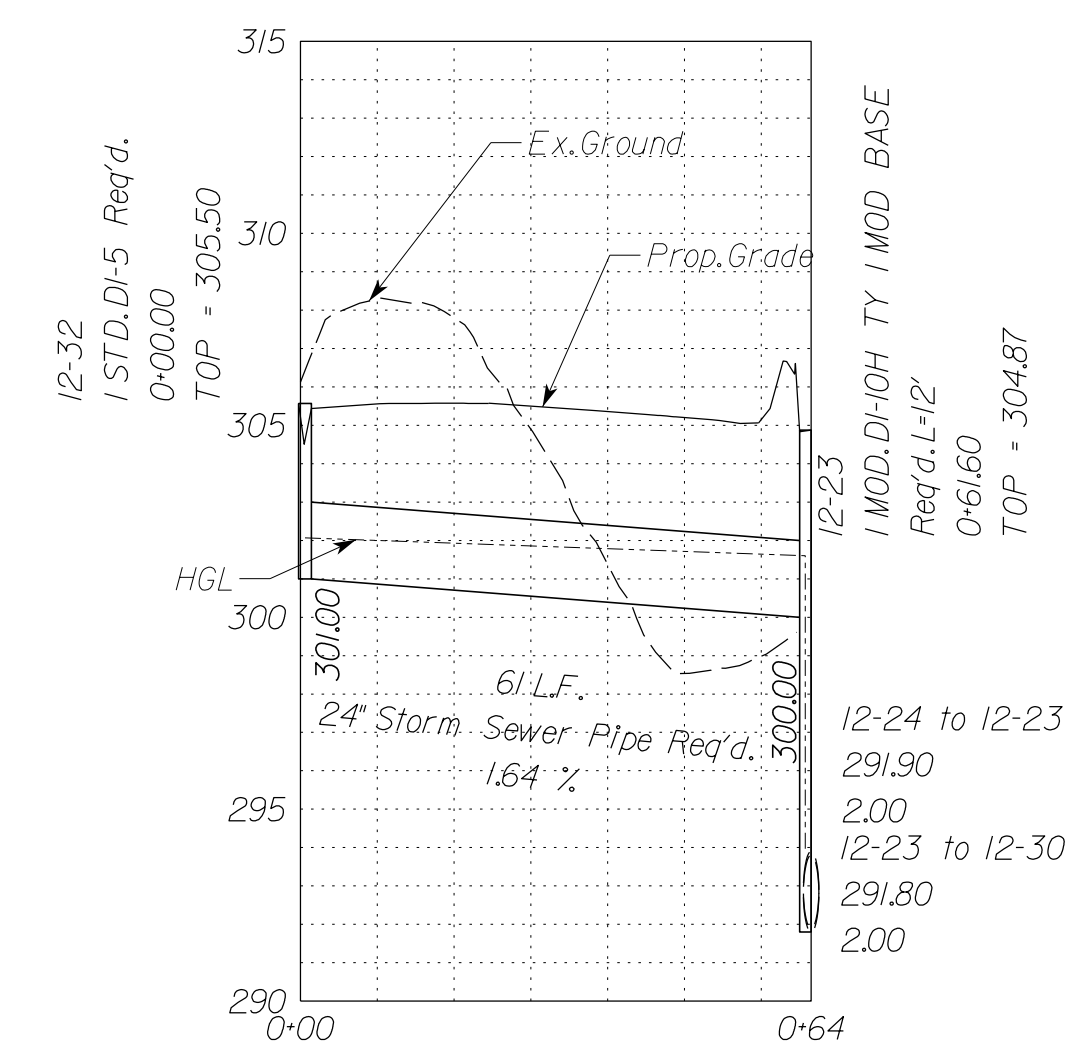
Stormsewer Profile 12-25 to 12-27



Stormsewer Profile 12-26 to 12-29



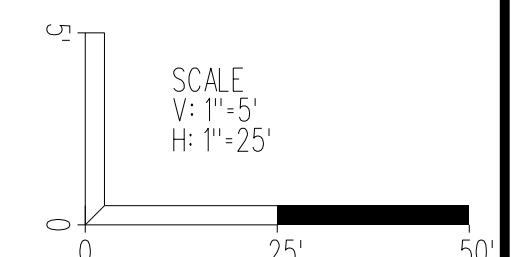
Stormsewer Profile 12-32 to 12-23



NOVA DISTRICT

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.



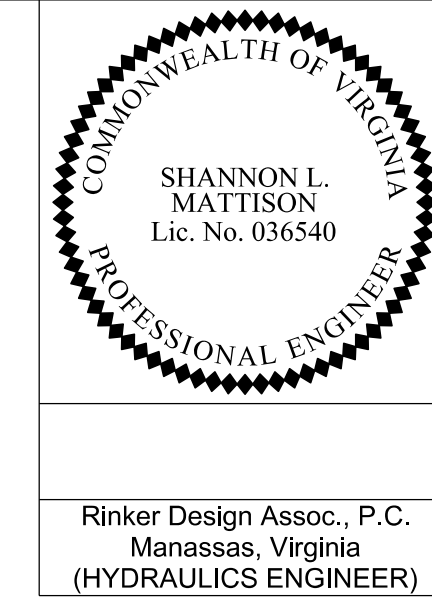
VDOT PROJECT NO. 0495-029-419	SHEET NO. 2L121C AREA 3
----------------------------------	-------------------------------

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\_Accumark - Michael Taylor, L.S. (703) 635-3060, 12/2021

# Storm Sewer Profiles

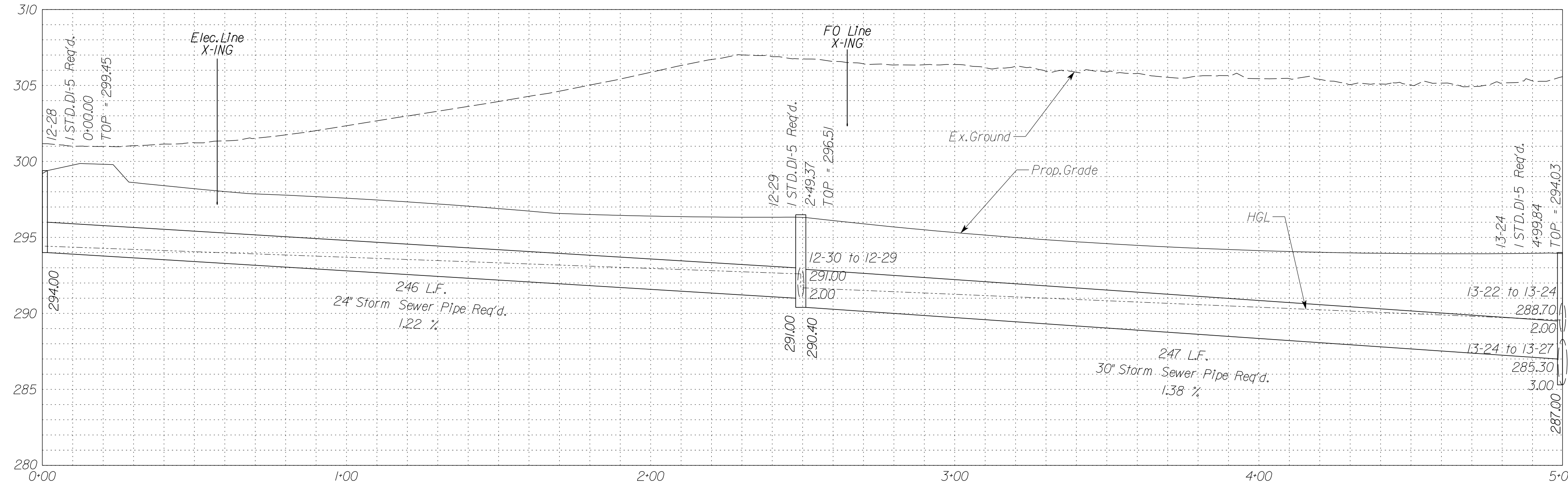


REVISED	STATE	ROUTE	STATE	VDOT PROJECT NO.	SHEET NO.
	VA.	495		0495-029-419 C501 RW201	2L1121D AREA 3

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)

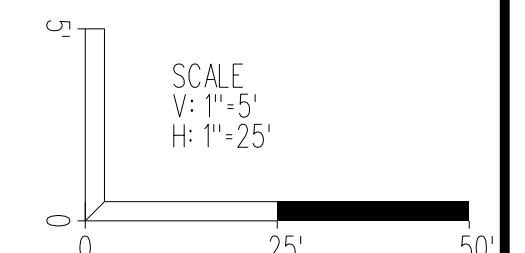
Stormsewer Profile 12-28 to 13-24



NOVA DISTRICT

10/6/2022

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 as assumed depths. Elevations are to be updated once test hole data has been finalized.



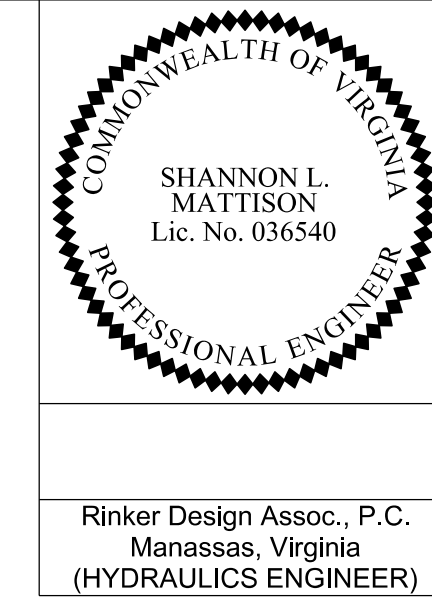
VDOT PROJECT NO. 0495-029-419	SHEET NO. 2L1121D AREA 3
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APPROVED FOR CONSTRUCTION



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 Accurmark - Michael Taylor, LS, (703) 635-3060, 12/2021

# Storm Sewer Profiles

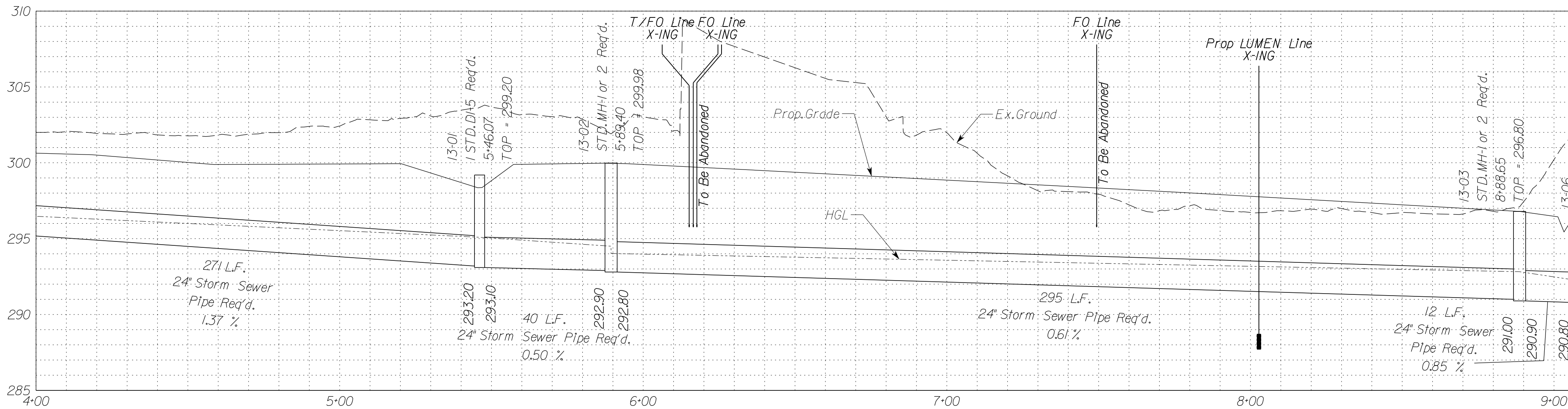


REVISED	STATE	ROUTE	STATE	VDOT PROJECT NO.	SHEET NO.
	VA	495		0495-029-419 C501 RW201	2L113)A AREA 3

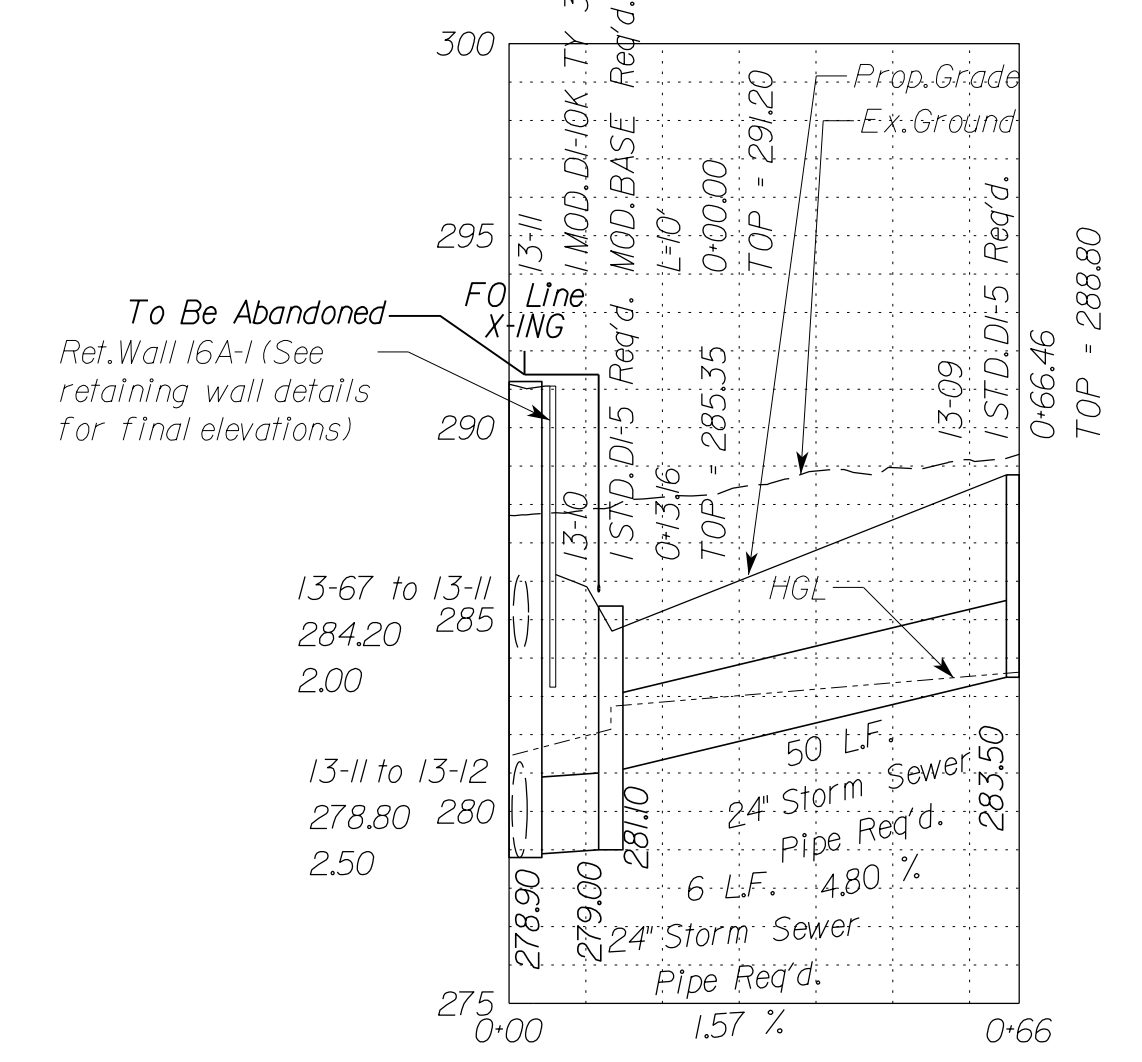
DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT

Match Line Sta. 4+00 See Sheet 2L112)B

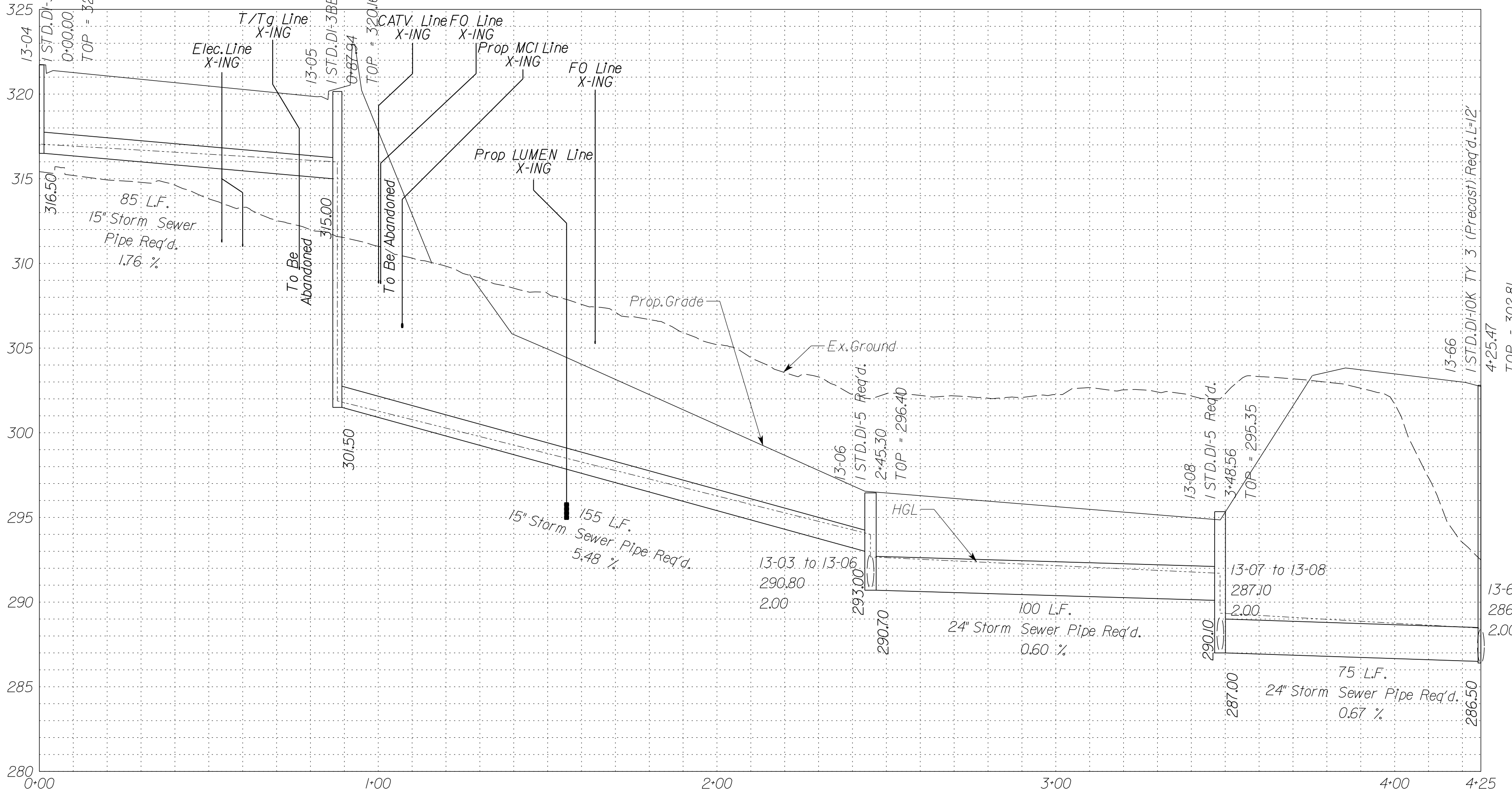
Stormsewer Profile 12-16 to 13-06



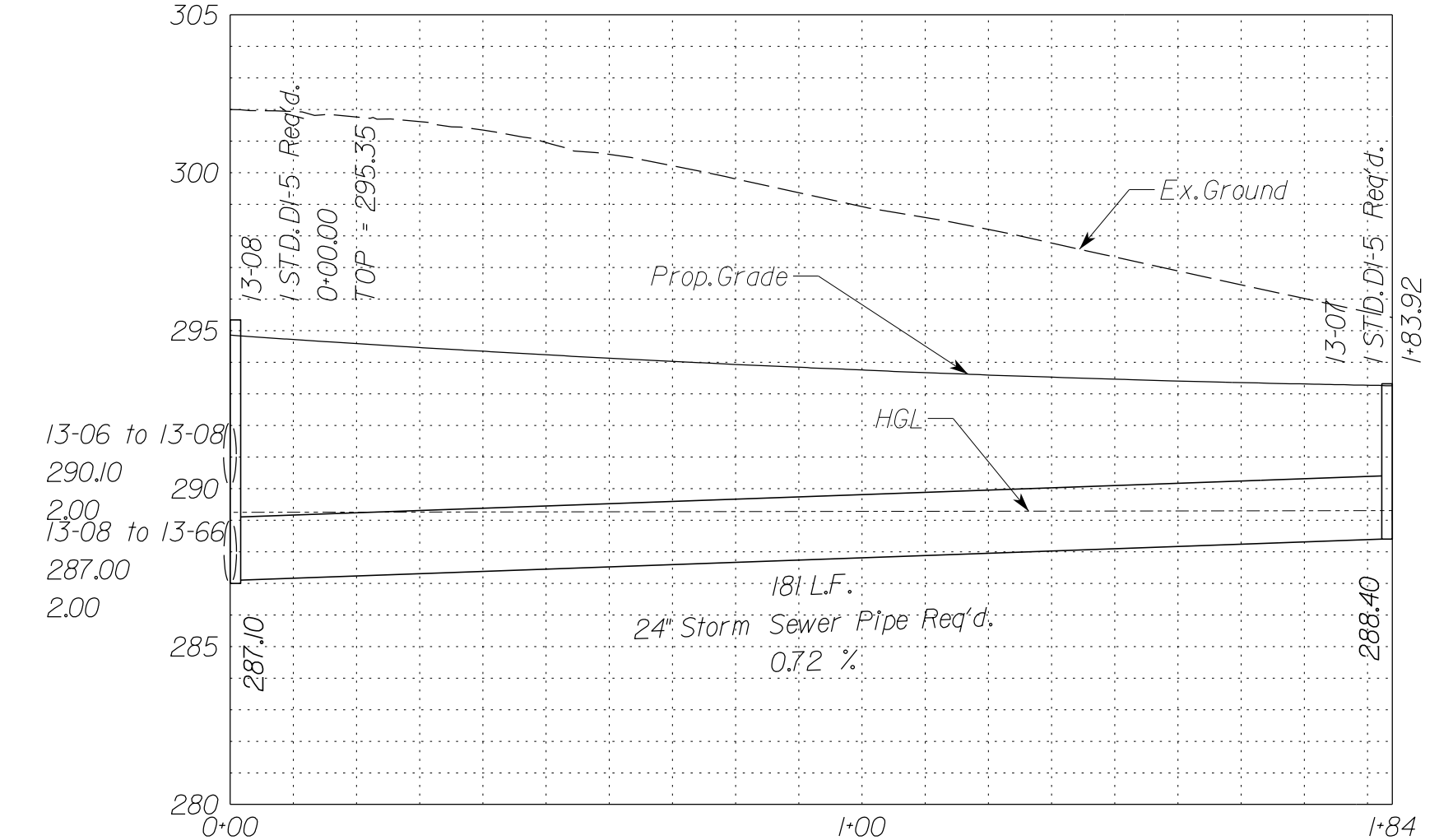
Stormsewer Profile 13-11 to 13-09



Stormsewer Profile 13-04 to 13-66

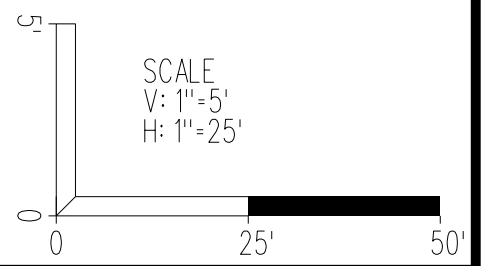


Stormsewer Profile 13-08 to 13-07



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. 2L113)A AREA 3
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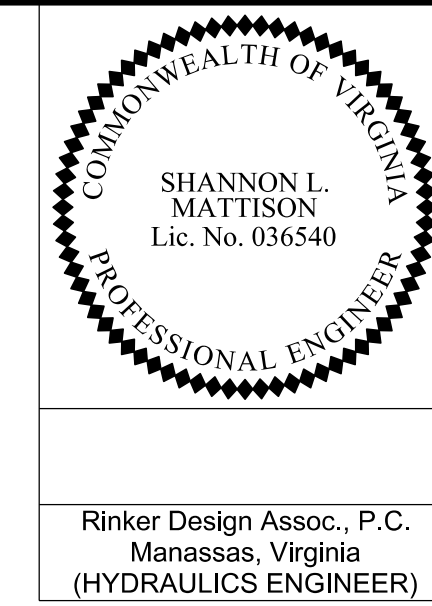
APPROVED FOR CONSTRUCTION

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

# Storm Sewer Profiles

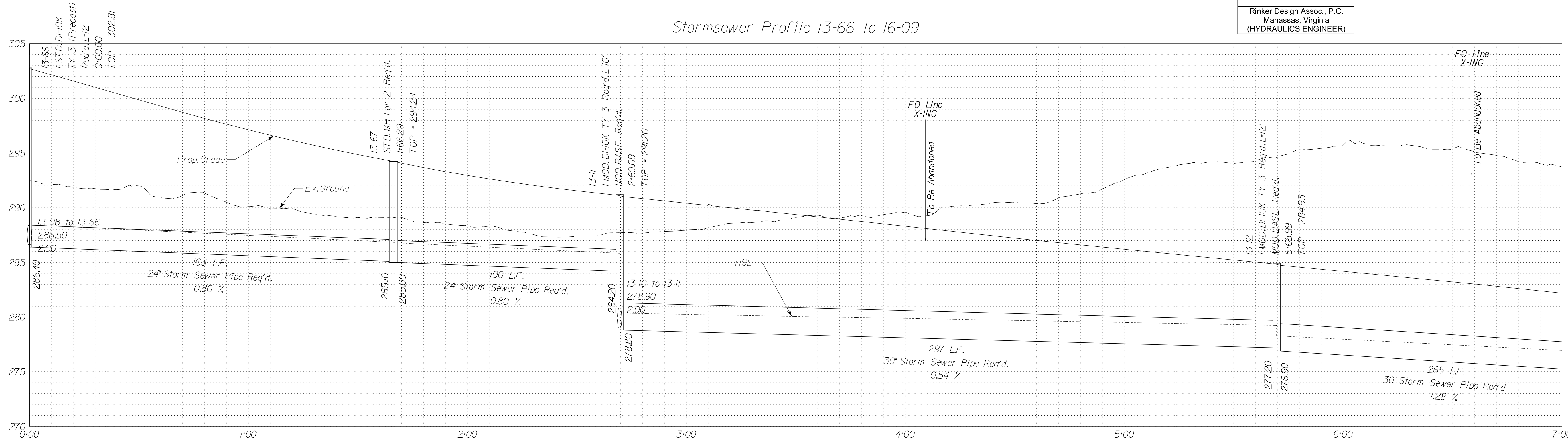


REVISED	STATE	ROUTE	STATE	VDOT PROJECT NO.	SHEET NO.
	VA	495		0495-029-419 C501 RW201	2L(13)B AREA 3

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

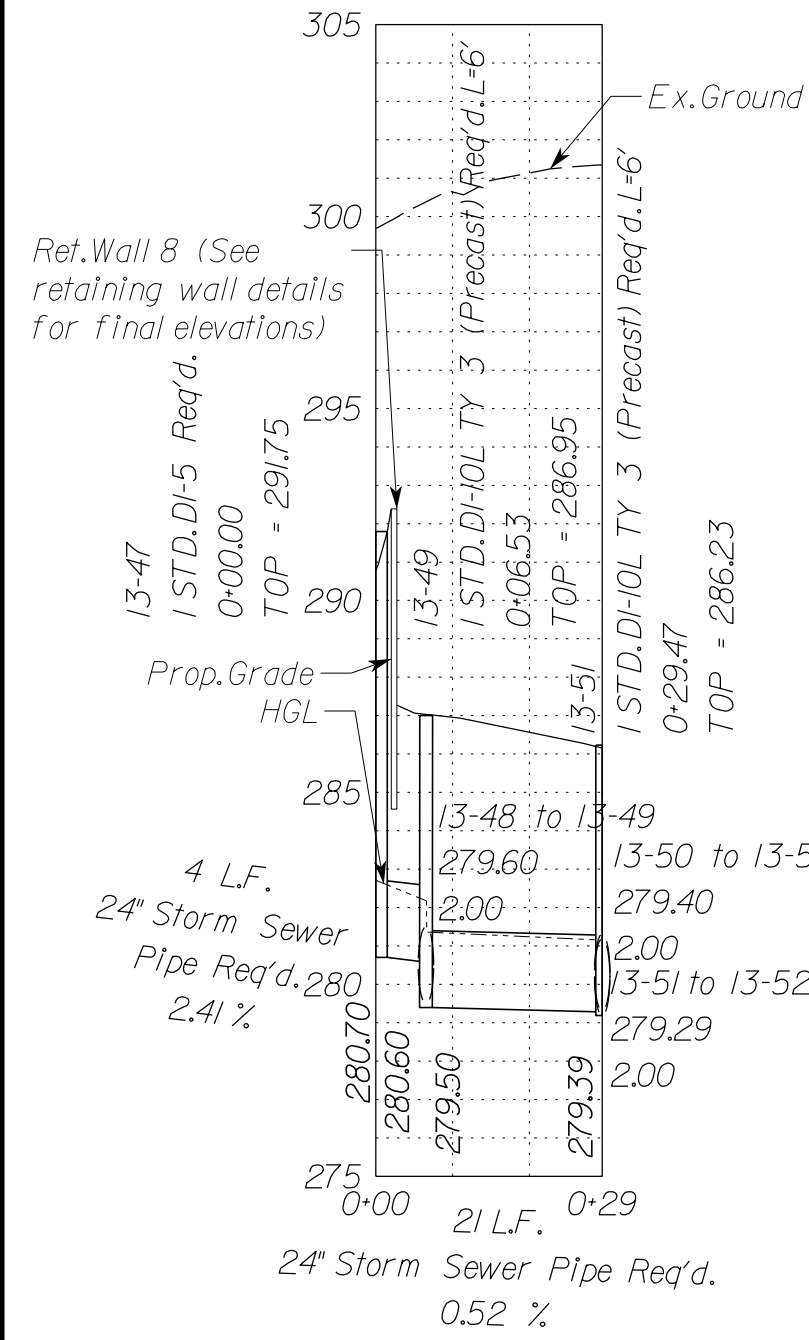
Rinker Design Assoc., P.C.  
 Manassas, Virginia  
 (HYDRAULICS ENGINEER)

Stormsewer Profile 13-66 to 16-09

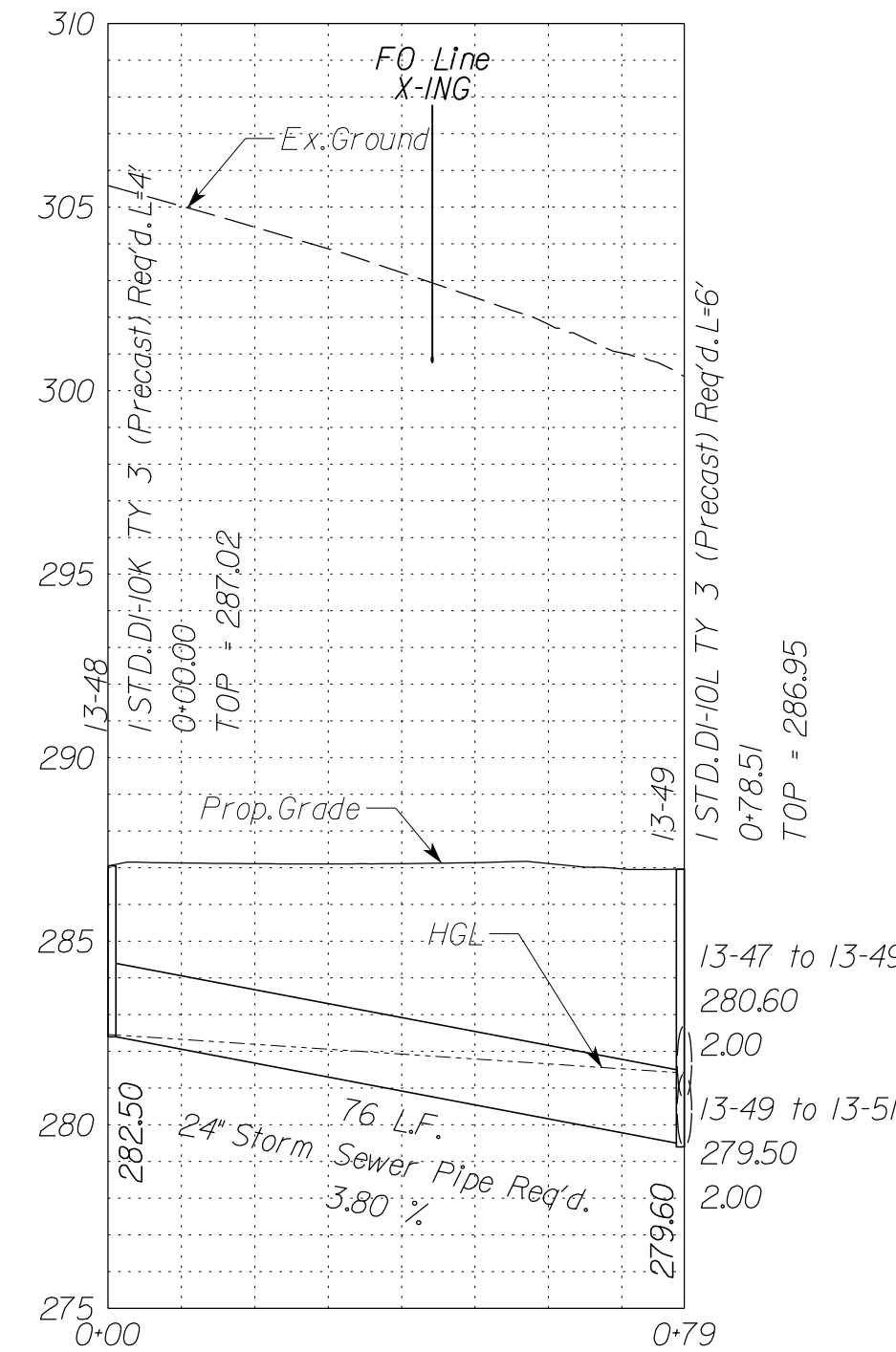


Match Line Sta. 7+00 See Sheet 2L(14)A

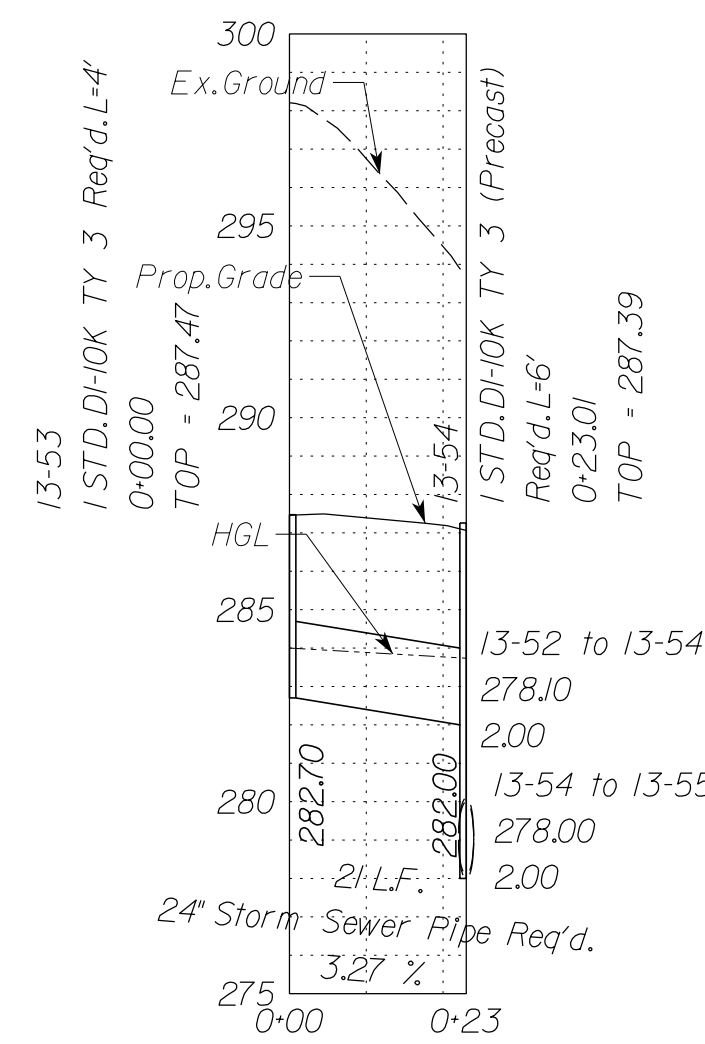
Stormsewer Profile 13-47 to 13-51



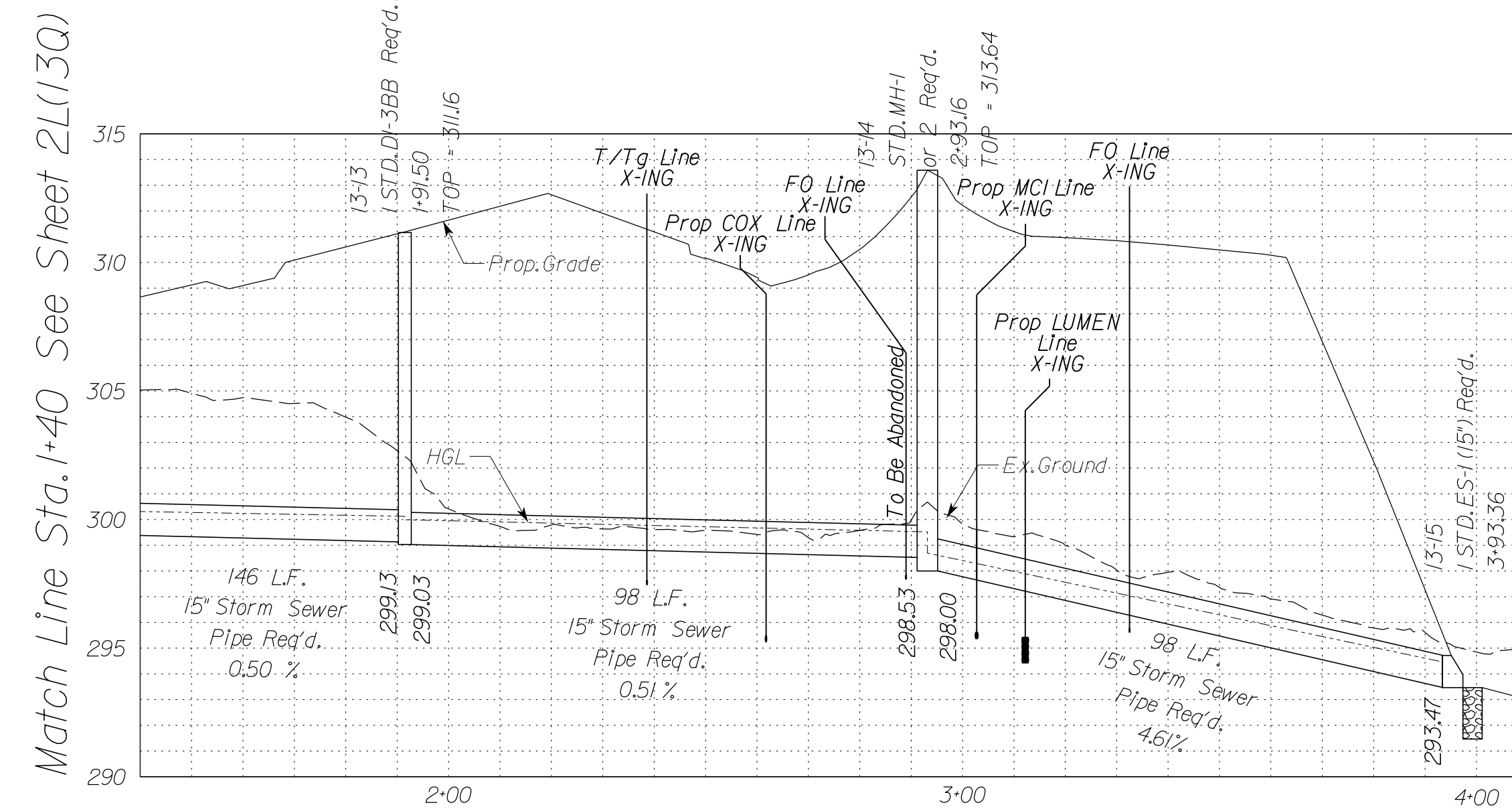
Stormsewer Profile 13-48 to 13-49



Stormsewer Profile 13-53 to 13-54



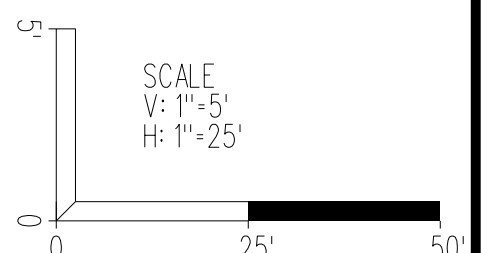
Stormsewer Profile 13Q-01 to 13-15



Match Line Sta. 1+40 See Sheet 2L(13Q)

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.



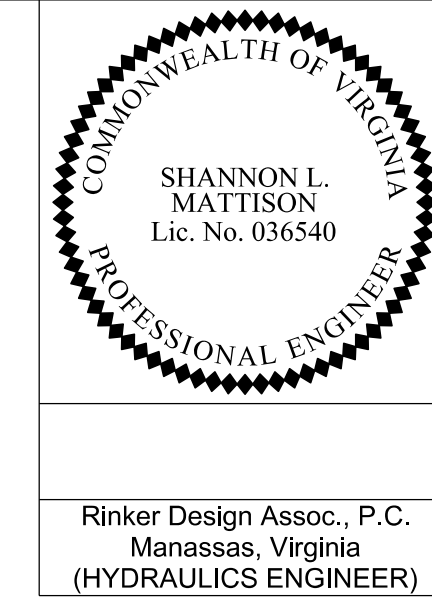
VDOT PROJECT NO. 0495-029-419	SHEET NO. 2L(13)B AREA 3
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APPROVED FOR CONSTRUCTION



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 Accurark - Michael Taylor, LS (703) 635-3060, 12/2021

# Storm Sewer Profiles

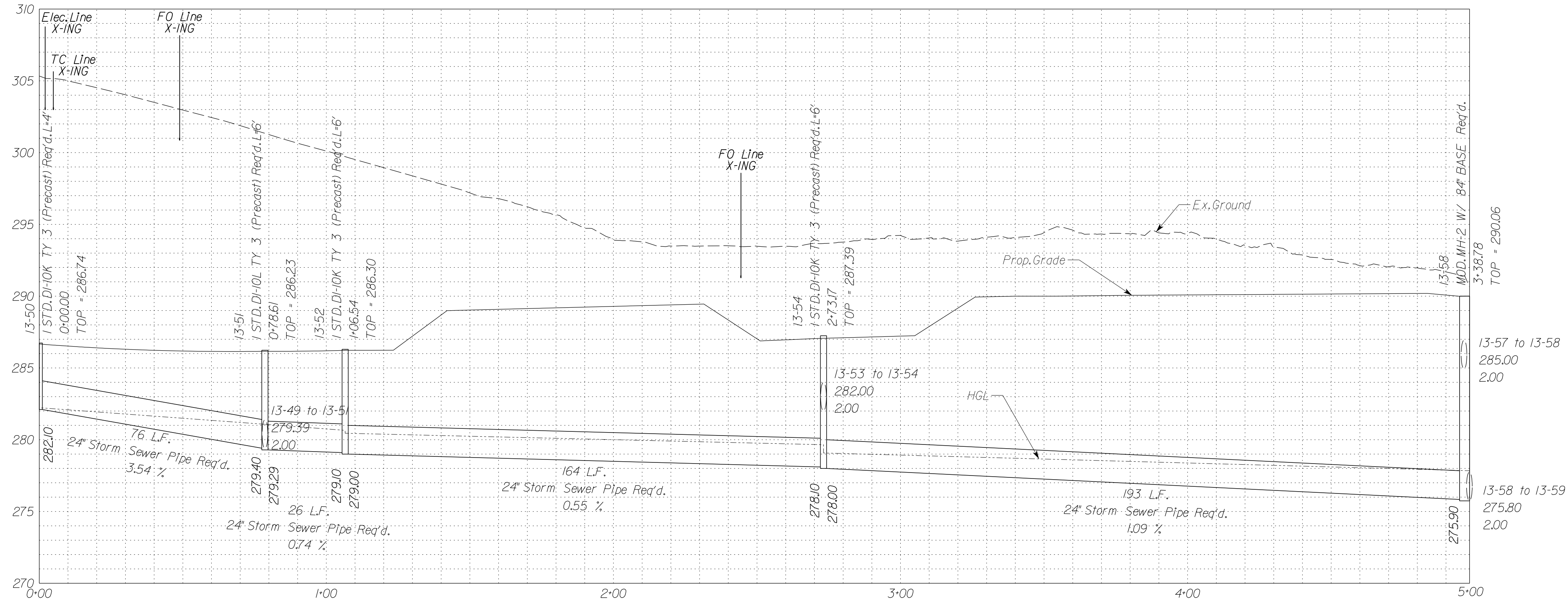


REVISED	STATE	ROUTE	STATE	VDOT PROJECT NO.	SHEET NO.
	VA	495		0495-029-419 C501 RW201	2L1131C AREA 3

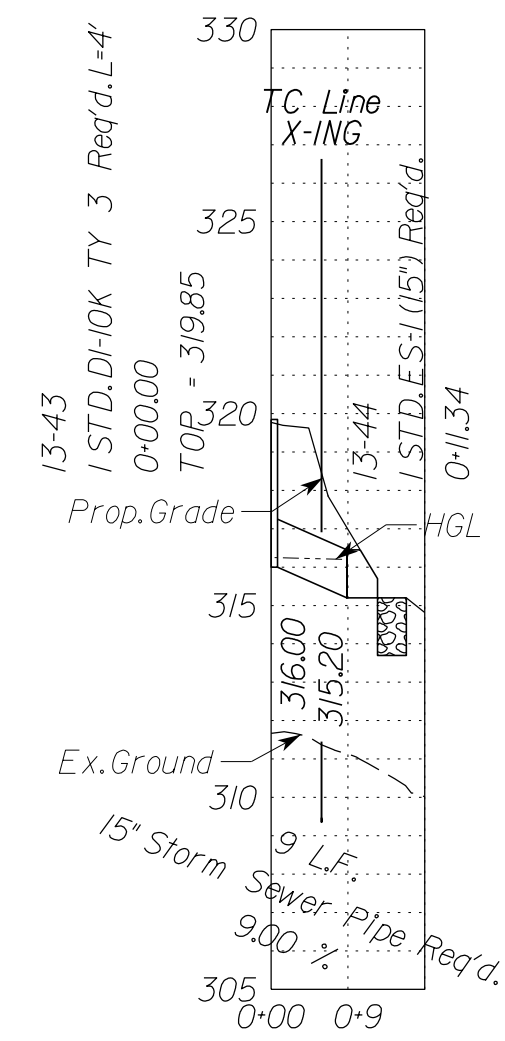
DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT

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

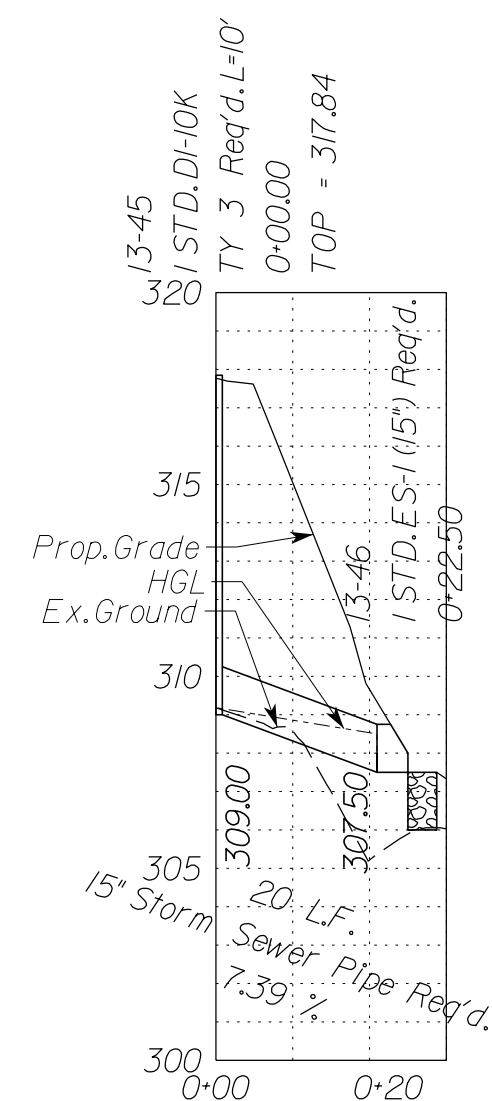
Stormsewer Profile 13-50 to 13-58



Stormsewer Profile 13-43 to 13-44

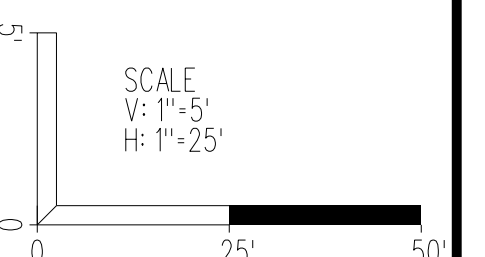


Stormsewer Profile 13-45 to 13-46



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. 2L1131C AREA 3
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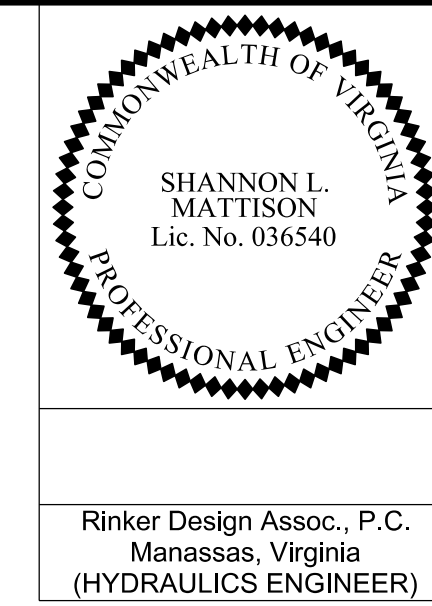
APPROVED FOR CONSTRUCTION

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

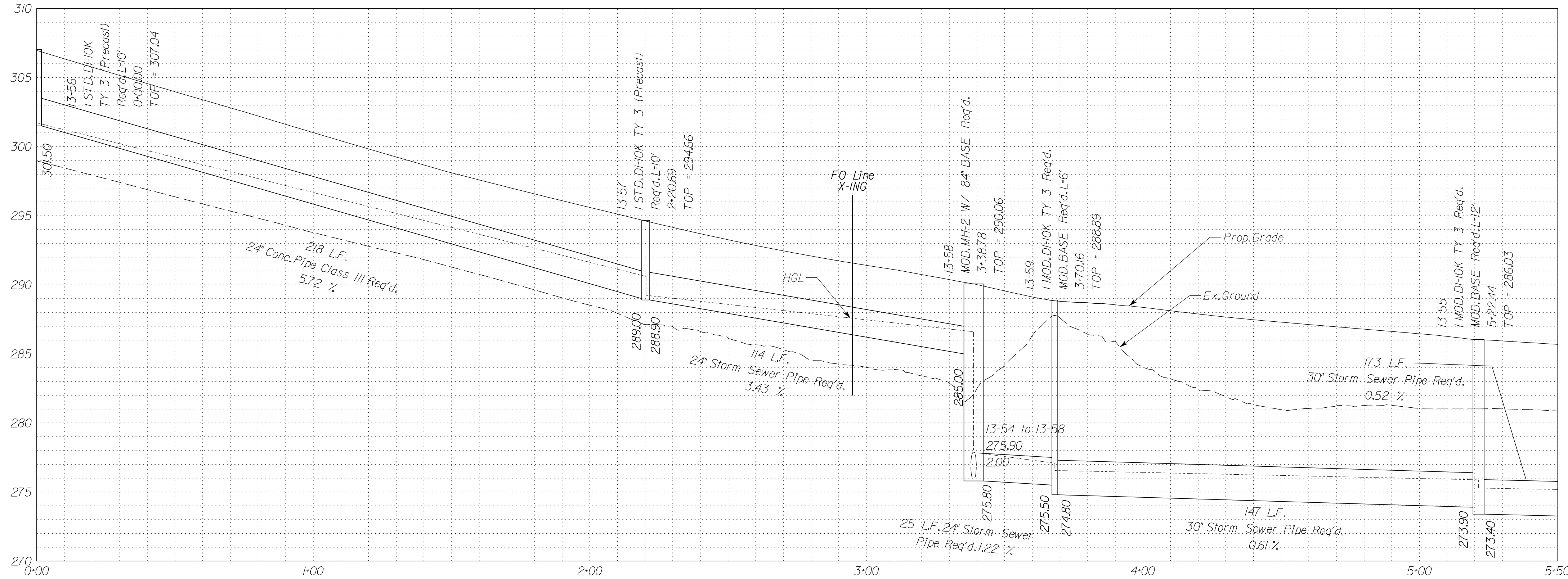


REVISED	STATE	ROUTE	STATE	VDOT PROJECT NO.	SHEET NO.
	VA	495		0495-029-419 C501 RW201	2L1131D AREA 3

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

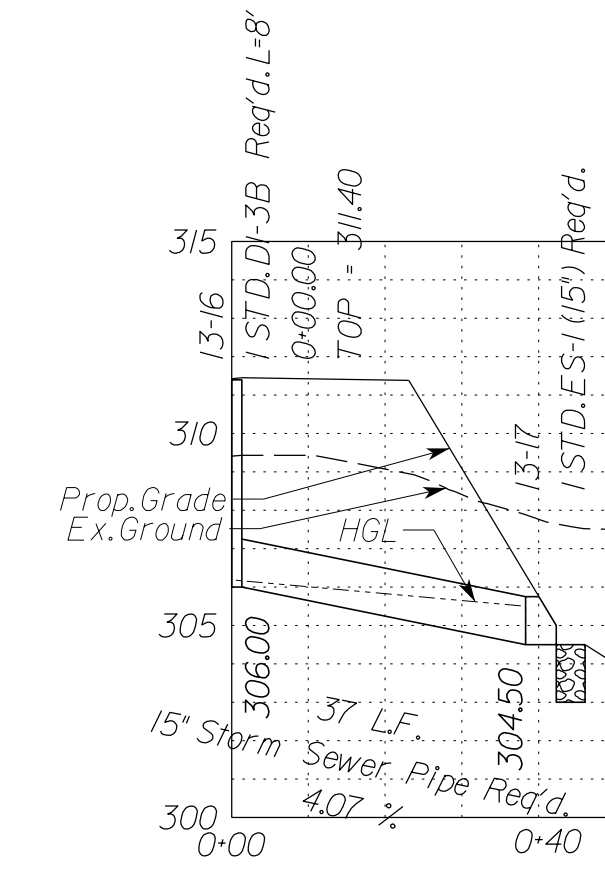
Rinker Design Assoc., P.C.  
 Manassas, Virginia  
 (HYDRAULICS ENGINEER)

Stormsewer Profile 13-56 to 16-24

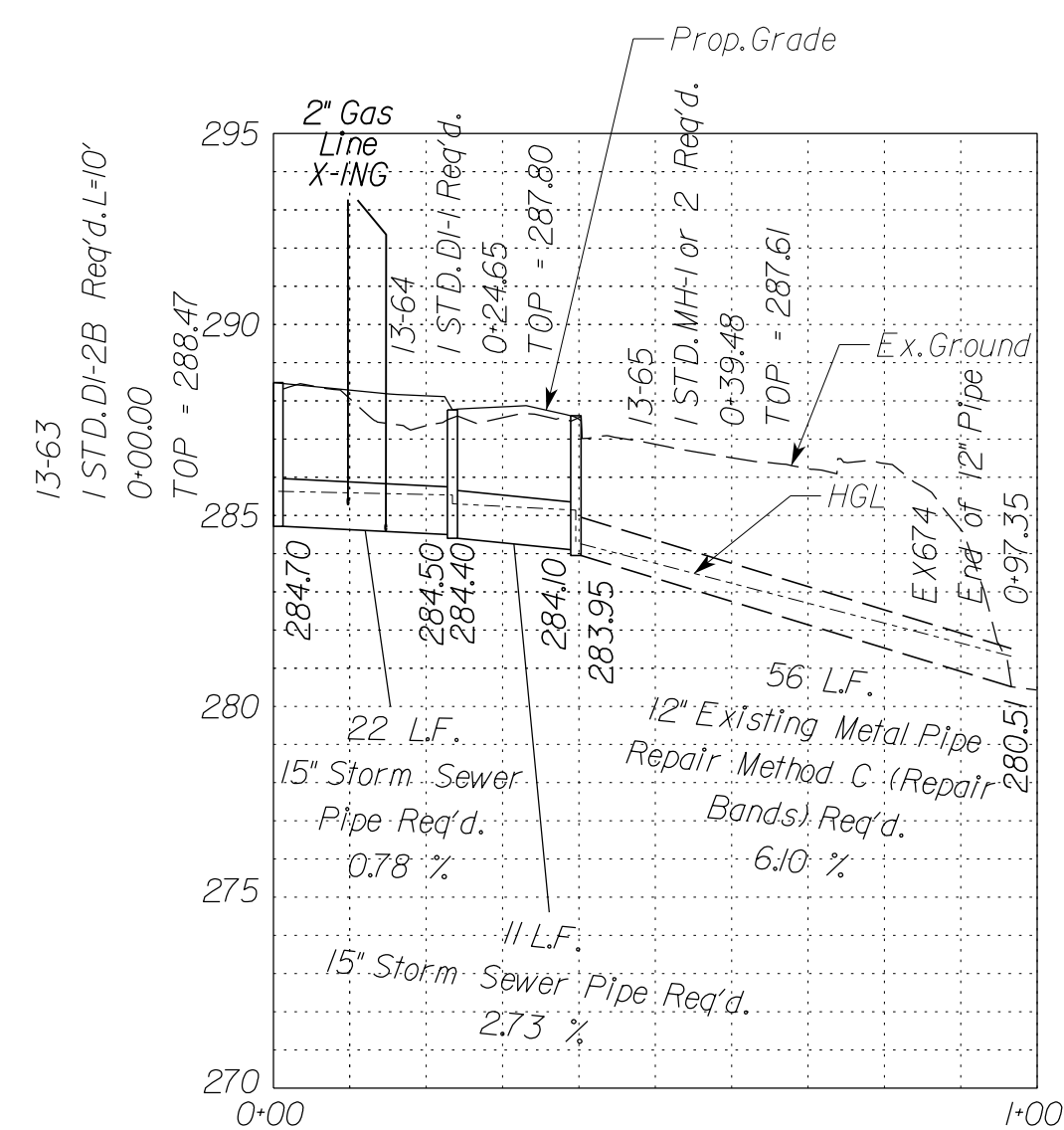


Match Line Sta. 5+50 See Sheet 2L114C

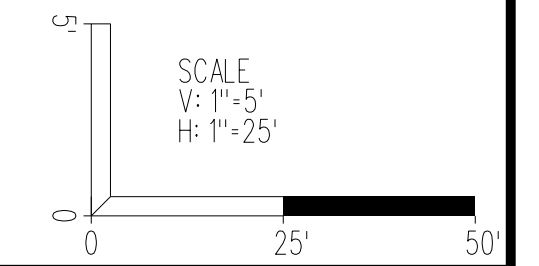
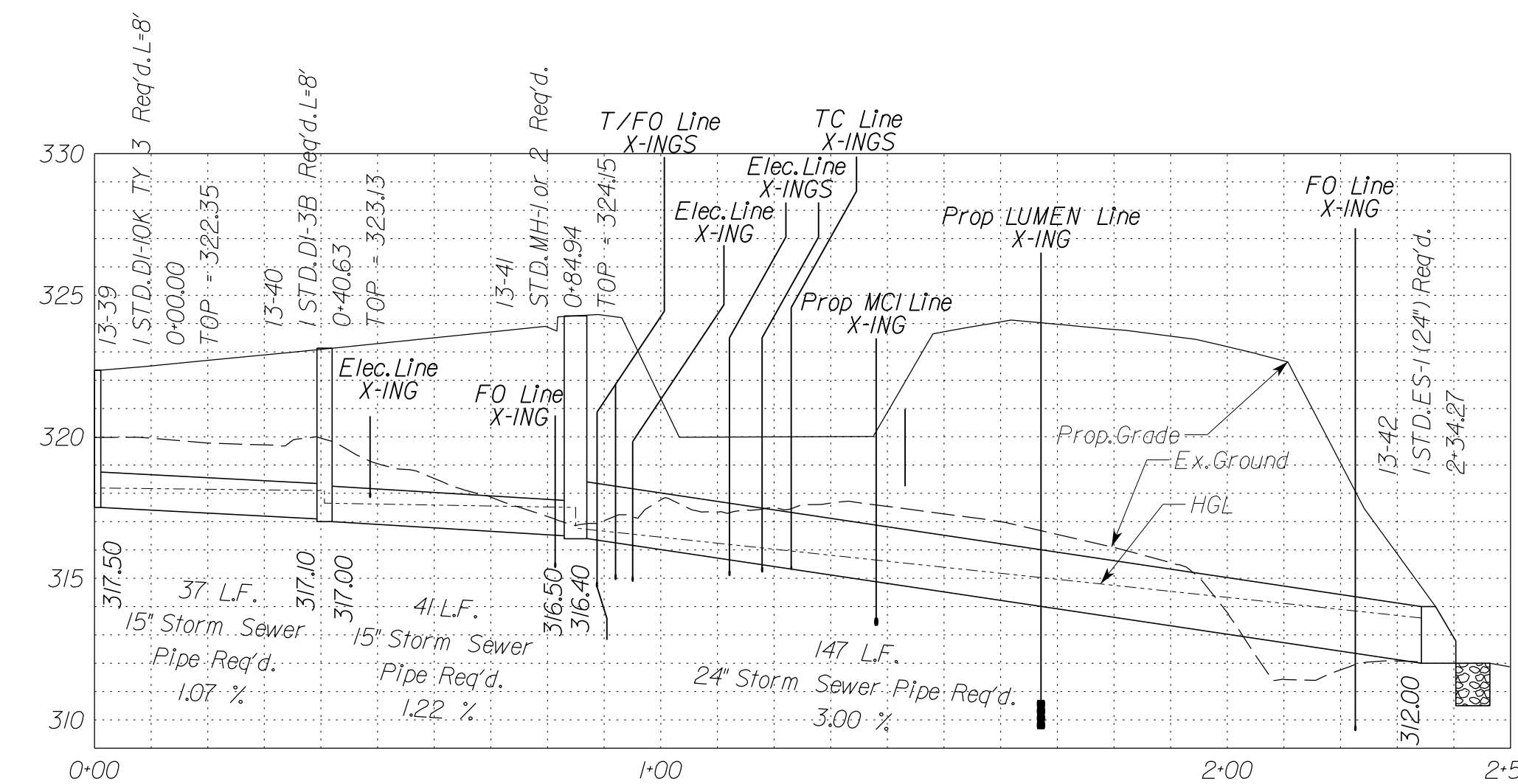
Stormsewer Profile 13-16 to 13-17



Stormsewer Profile 13-63 to 13-65



Stormsewer Profile 13-39 to 13-42



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.

VDOT PROJECT NO. 0495-029-419	SHEET NO. 2L1131D AREA 3
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APPROVED FOR CONSTRUCTION

NOVA DISTRICT

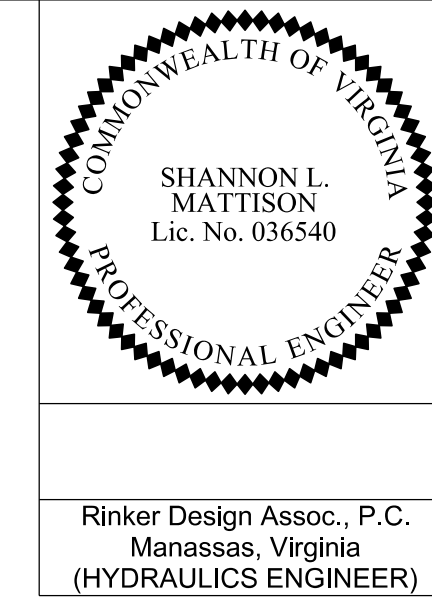


PROJECT MANAGER VDOT - Rupal Shah, PE, (703) 259-2362  
 SURVEYED BY, DATE RDA - Nicholas Kaugaulis, LS, (703) 334-0837, 12/2021  
 DESIGN BY RDA - Darrell Fischer, PE, (703) 334-0823  
 SUBSURFACE UTILITY BY, DATE Accurmark - Michael Taylor, LS, (703) 635-3060, 12/2021

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.

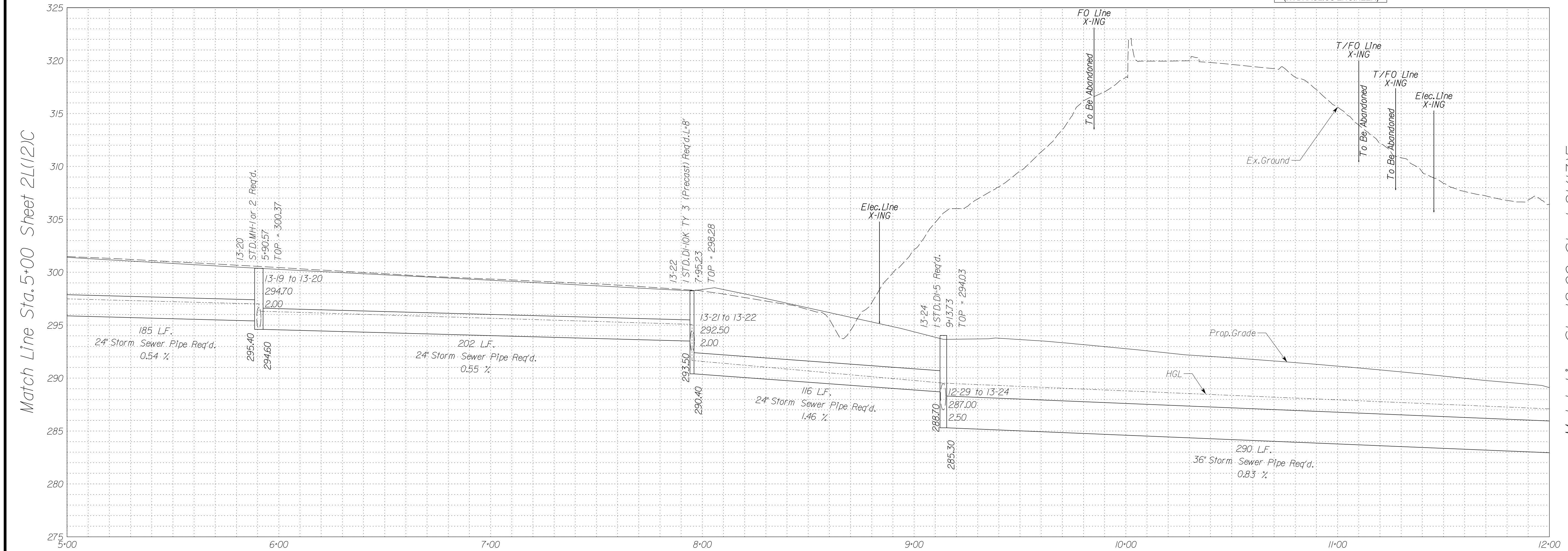
# Storm Sewer Profiles



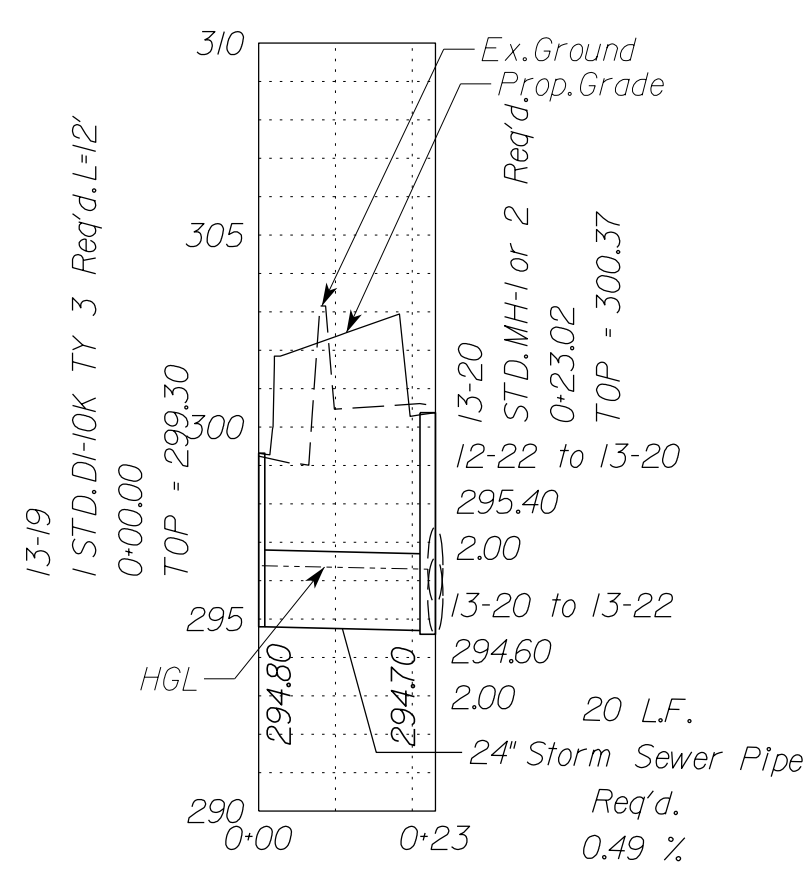
REVISED	STATE	ROUTE	STATE	VDOT PROJECT NO.	SHEET NO.
	VA.	495		0495-029-419 C501 RW201	2L(13)E AREA 3

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

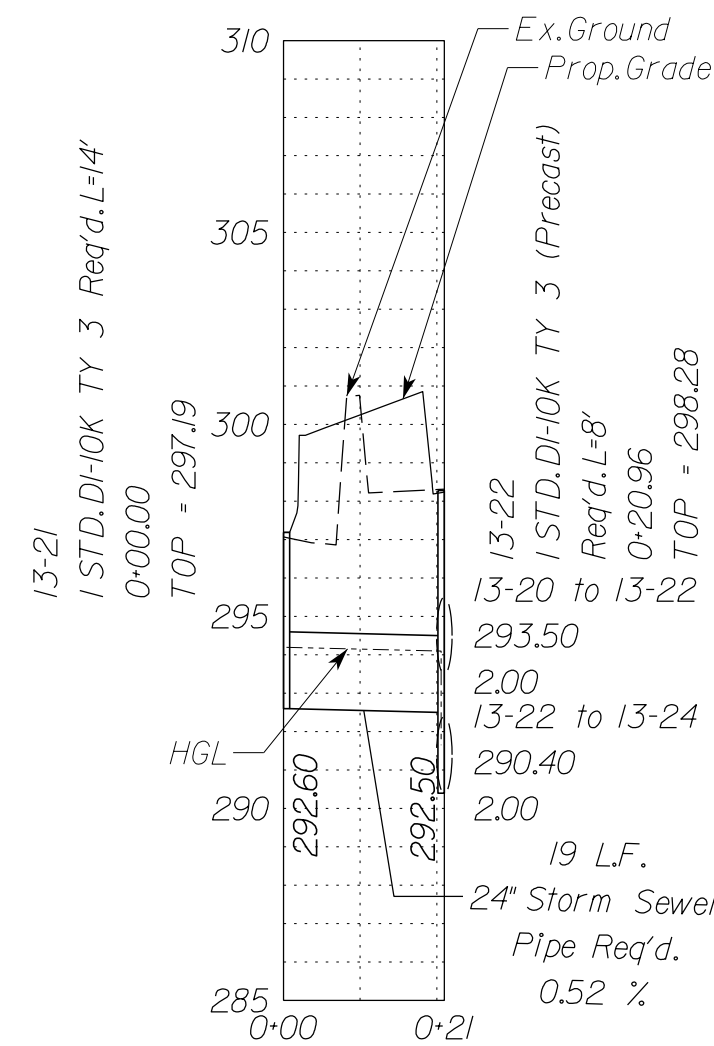
Stormsewer Profile 12-19 to 17-15



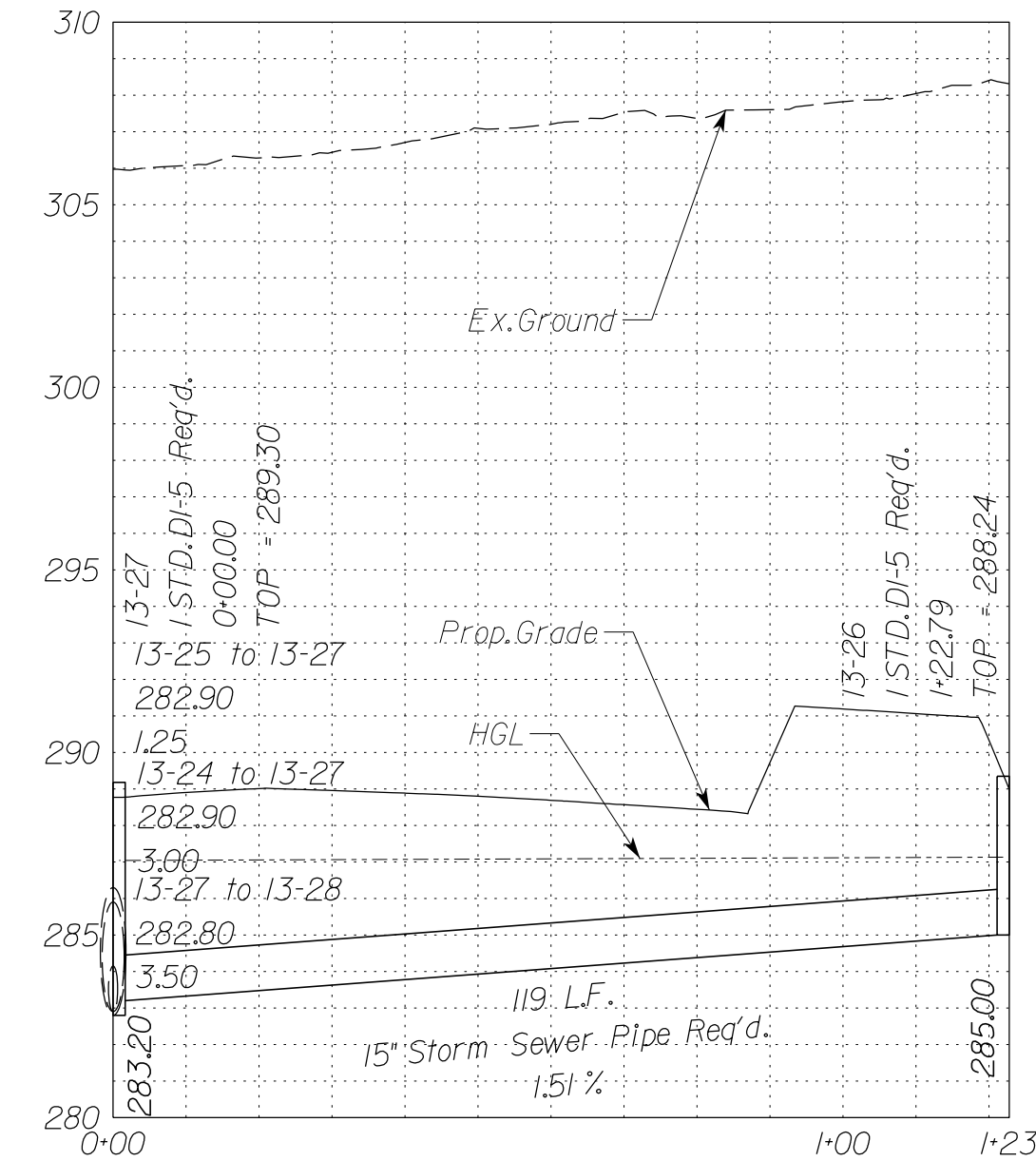
Stormsewer Profile 13-19 to 13-20



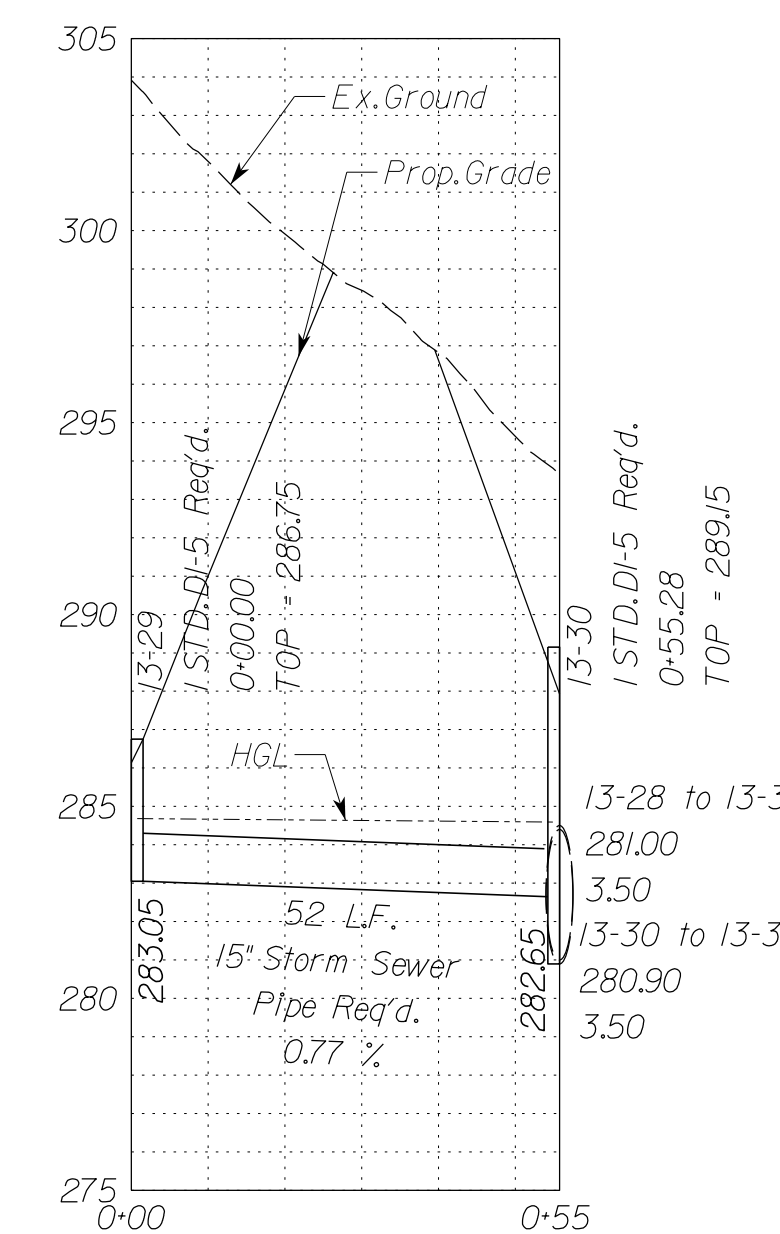
Stormsewer Profile 13-21 to 13-22



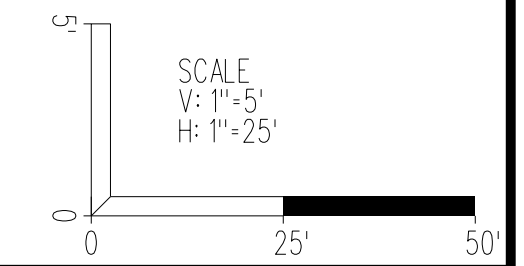
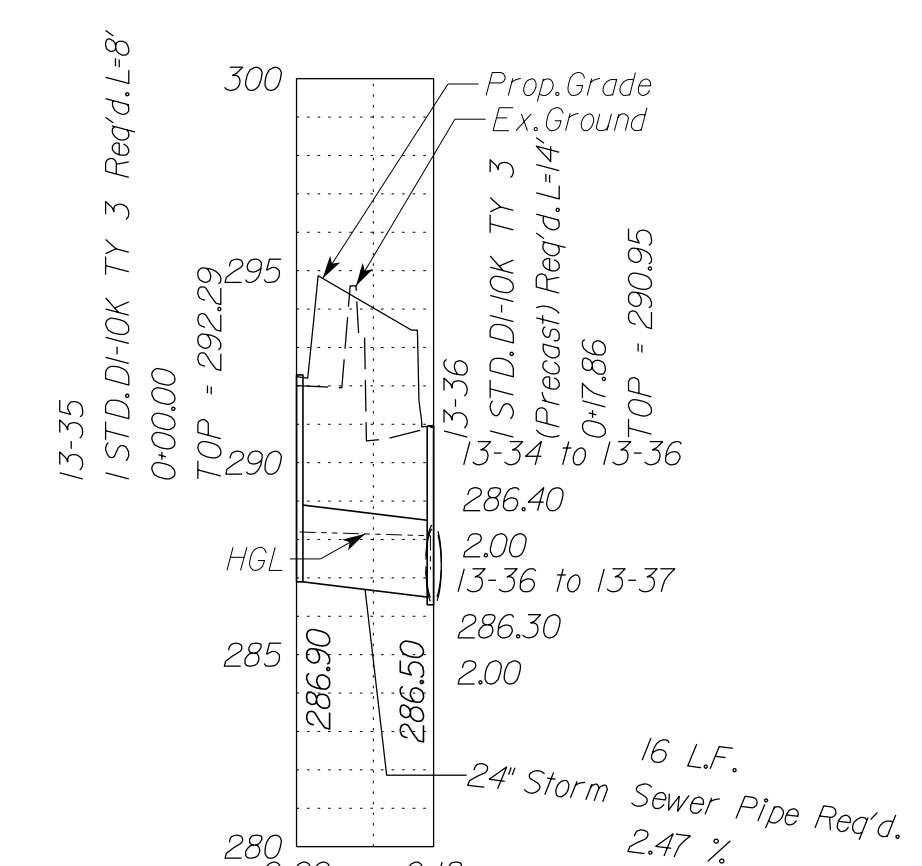
Stormsewer Profile 13-27 to 13-26



Stormsewer Profile 13-29 to 13-30



Stormsewer Profile 13-35 to 13-36



VDOT PROJECT NO. 0495-029-419	SHEET NO. 2L(13)E AREA 3
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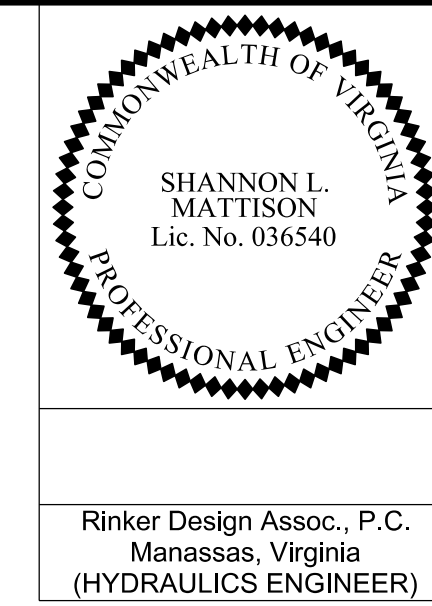
APPROVED FOR CONSTRUCTION

NOVA DISTRICT



PROJECT MANAGER VDOT - Rupal Shah, P.E. (703) 259-2362  
 SURVEYED BY, DATE RDA - Nicholas Kougoullis, 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

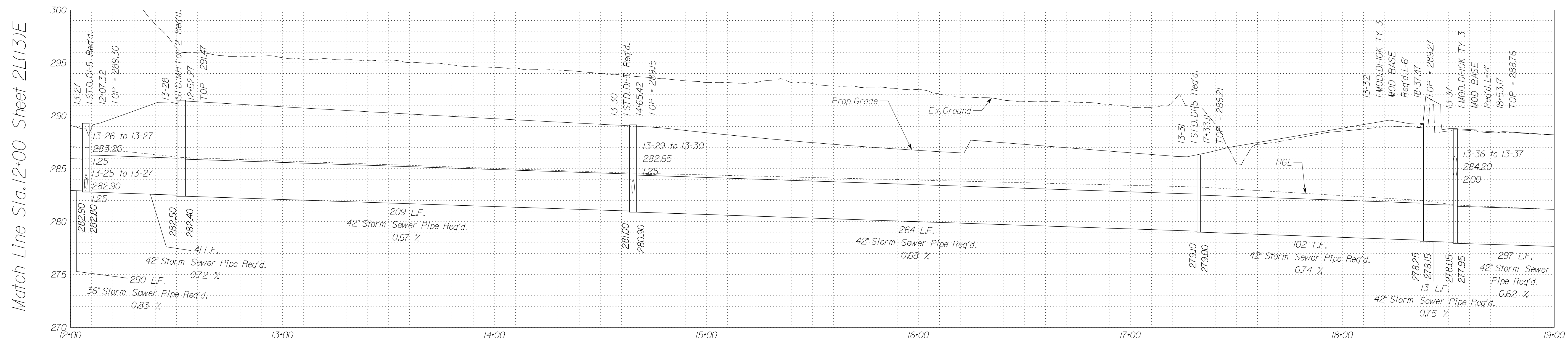


REVISED	STATE	ROUTE	STATE	VDOT PROJECT NO.	SHEET NO.
	VA	495		0495-029-419 C501 RW201	2L(13)F AREA 3

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)

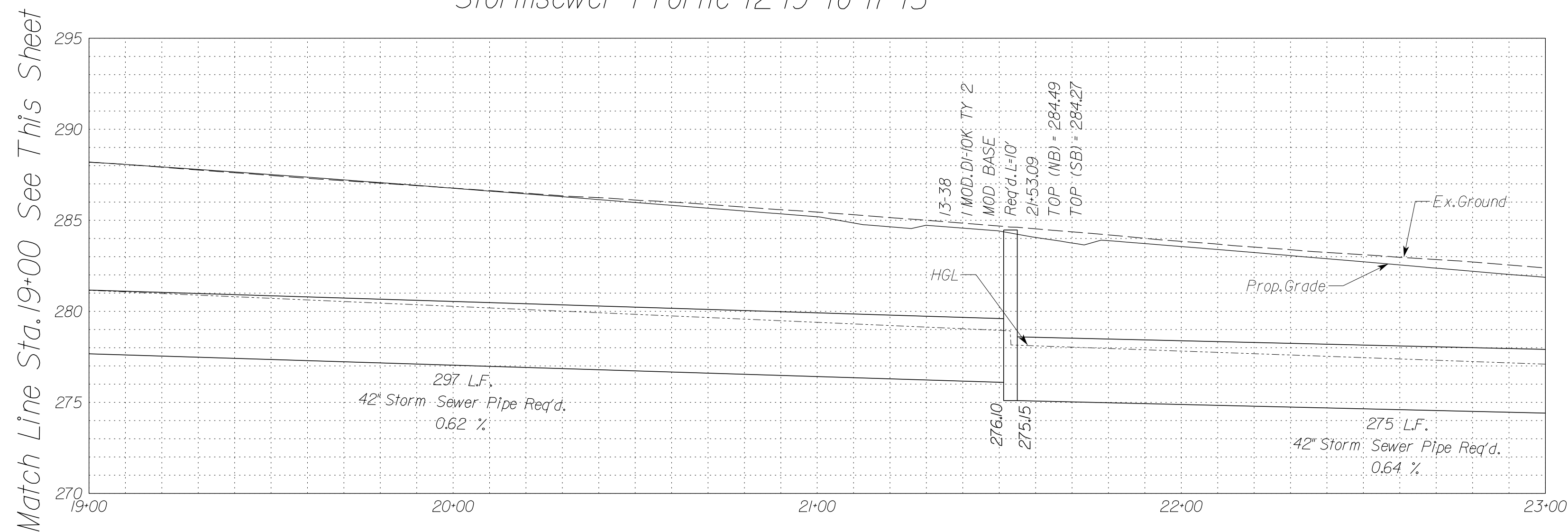
Stormsewer Profile 12-19 to 17-15



Match Line Sta. 12+00 Sheet 2L(13)E

Match Line Sta. 19+00 See This Sheet

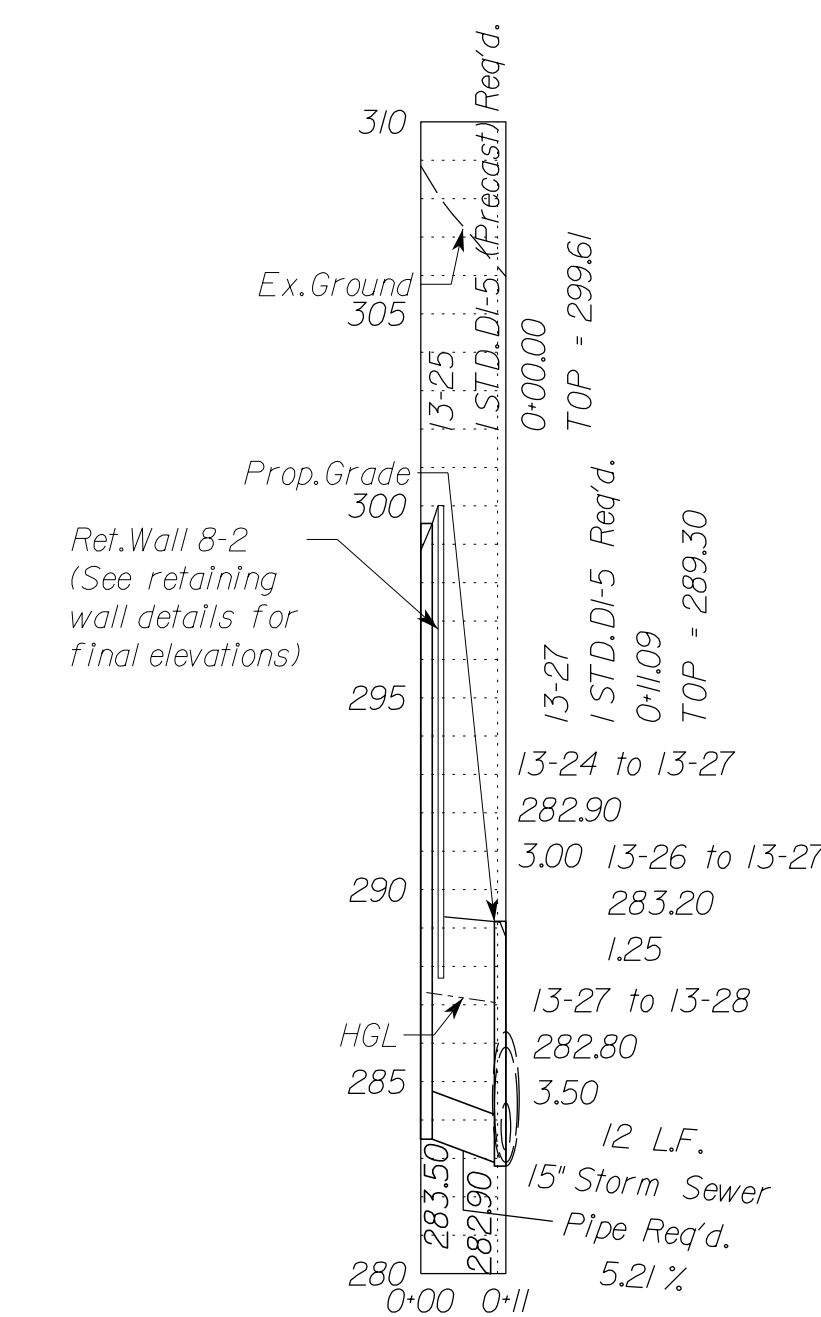
Stormsewer Profile 12-19 to 17-15



Match Line Sta. 19+00 See This Sheet

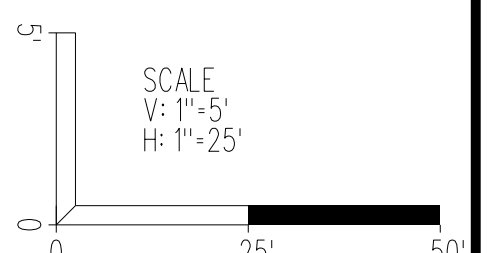
Match Line Sta. 23+00 Sheet 2L(14)D

Stormsewer Profile 13-25 to 13-27



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(13)F AREA 3
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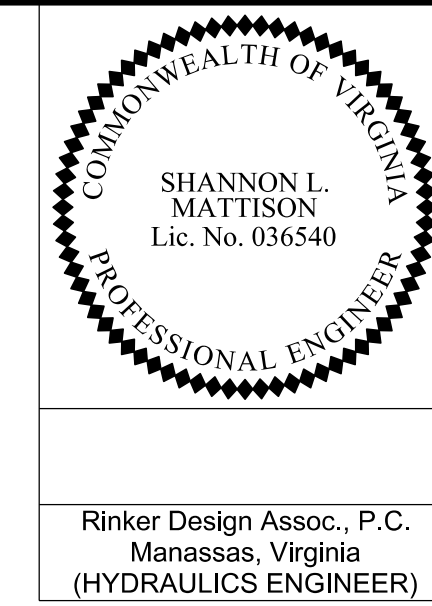
APPROVED FOR CONSTRUCTION

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

# Storm Sewer Profiles

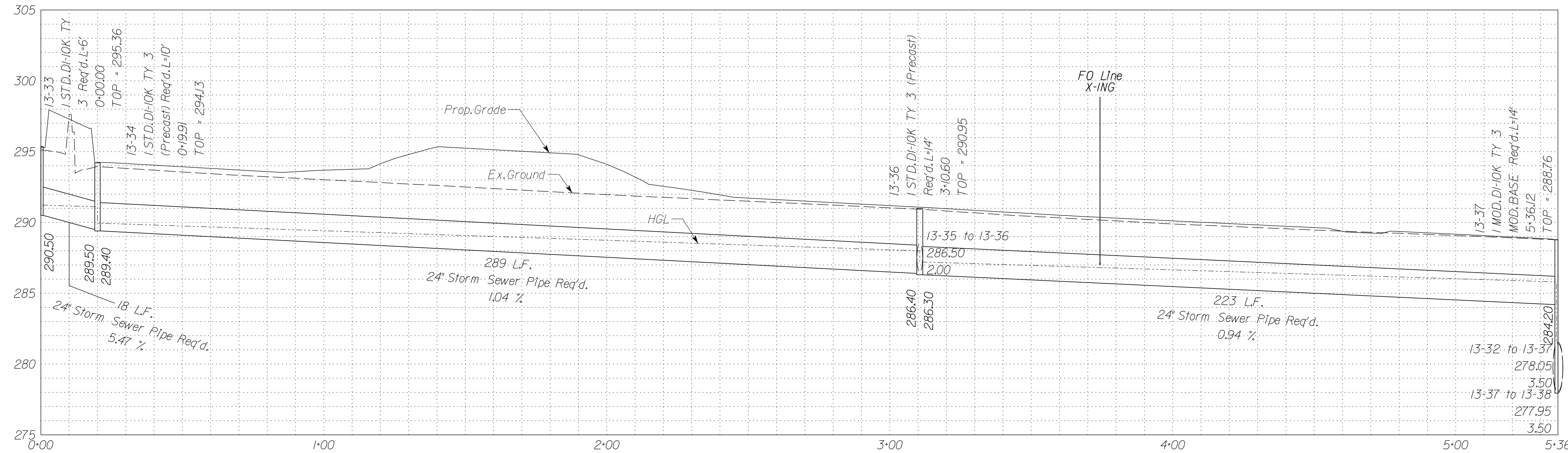


REVISED	STATE	ROUTE	STATE	VDOT PROJECT NO.	SHEET NO.
	VA.	495		0495-029-419 C501 RW201	2L1131G AREA 3

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)

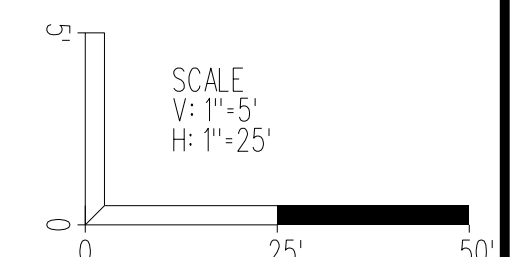
Stormsewer Profile 13-33 to 13-37



NOVA DISTRICT

10/16/2022

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.



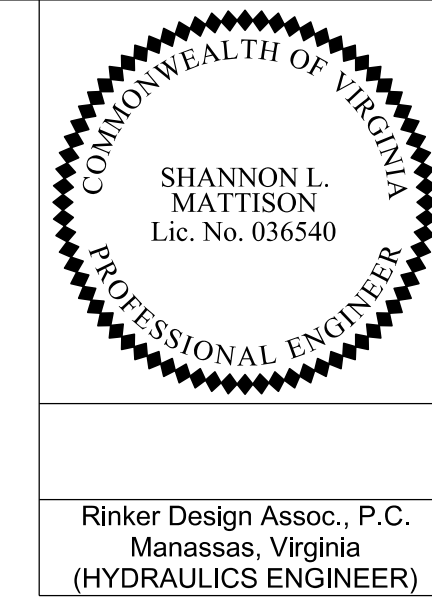
VDOT PROJECT NO. 0495-029-419	SHEET NO. 2L1131G AREA 3
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APPROVED FOR CONSTRUCTION



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

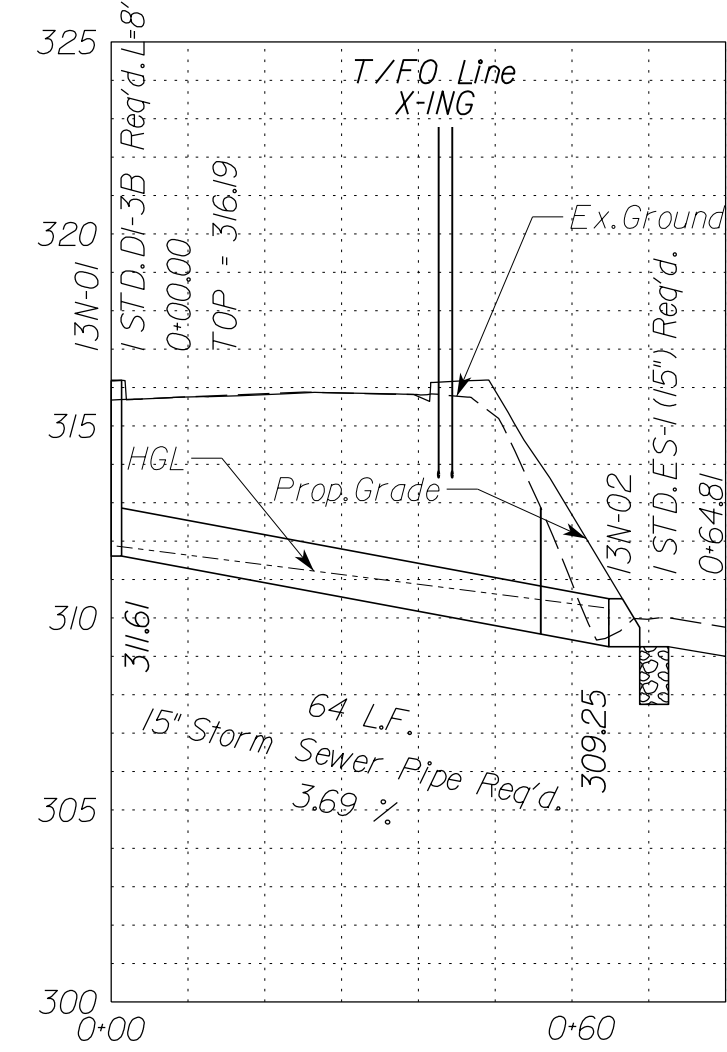


REVISED	STATE	ROUTE	STATE	VDOT PROJECT NO.	SHEET NO.
	VA	495		0495-029-419 C501 RW201	2L(13N)A AREA 3

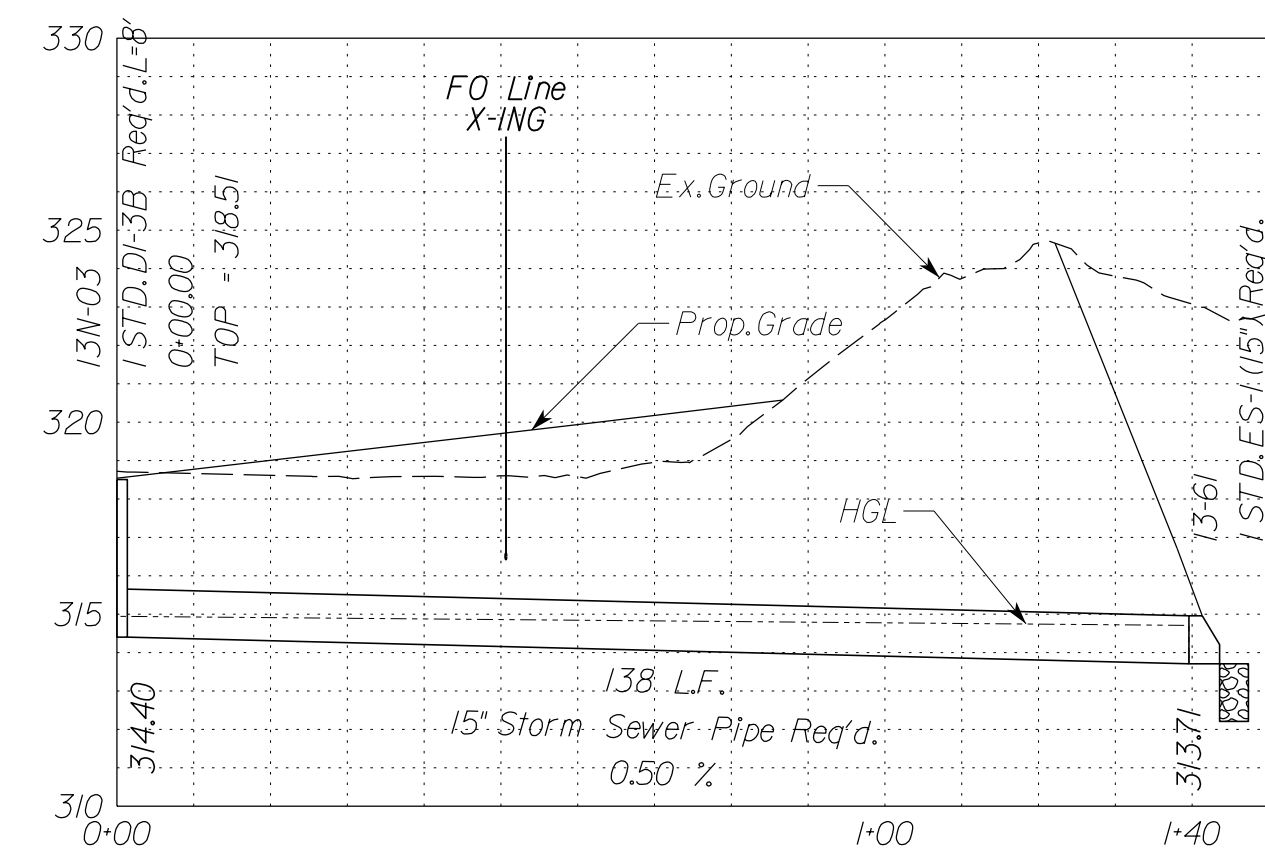
DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT

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

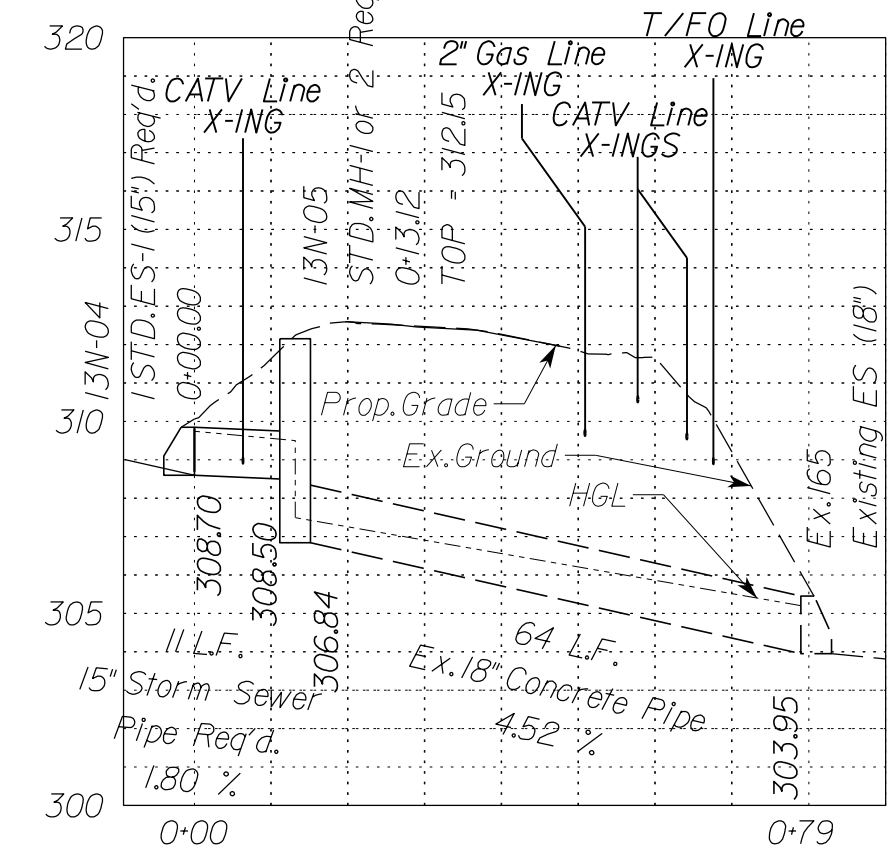
Stormsewer Profile 13N-01 to 13N-02



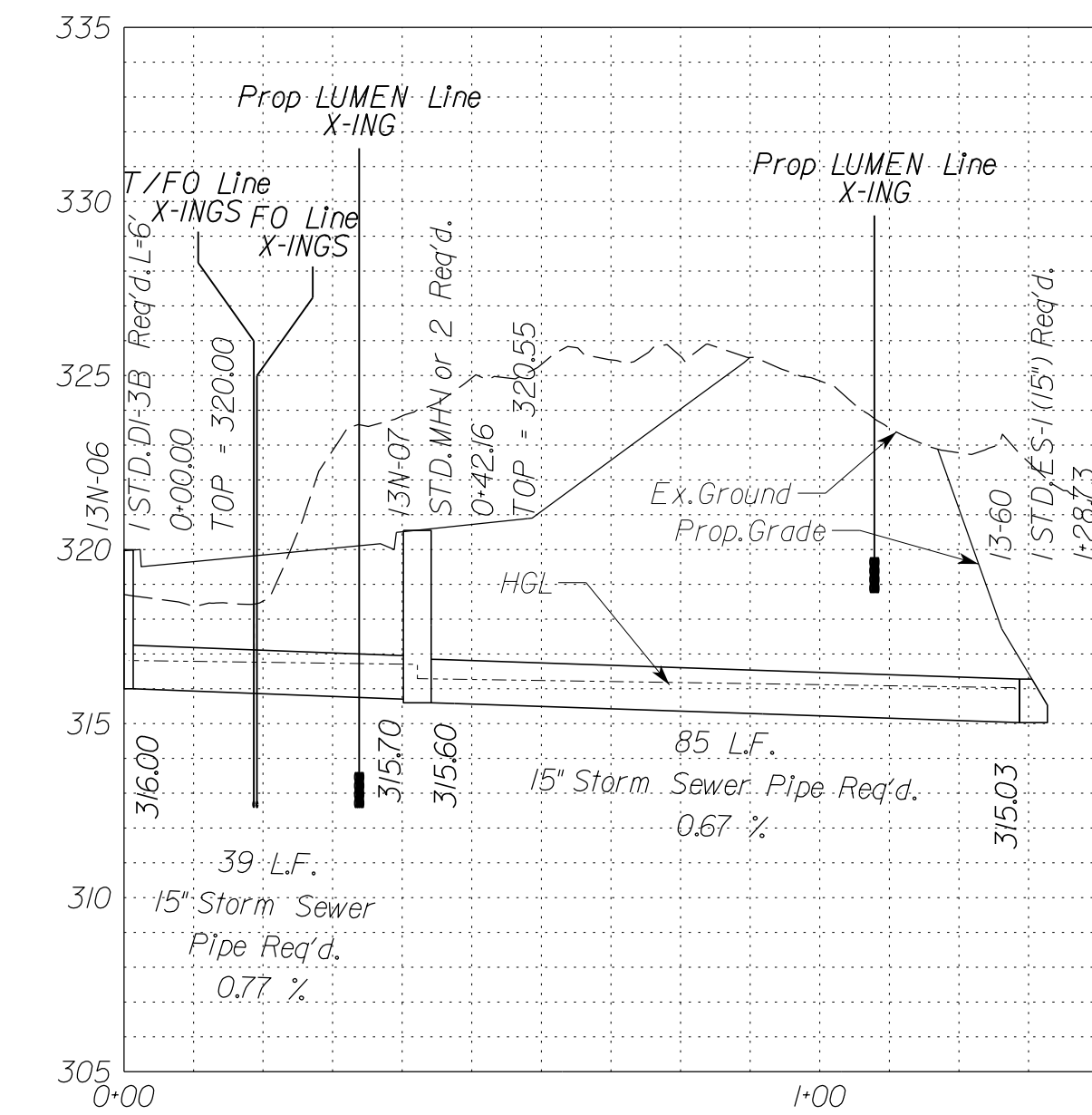
Stormsewer Profile 13N-03 to 13-61



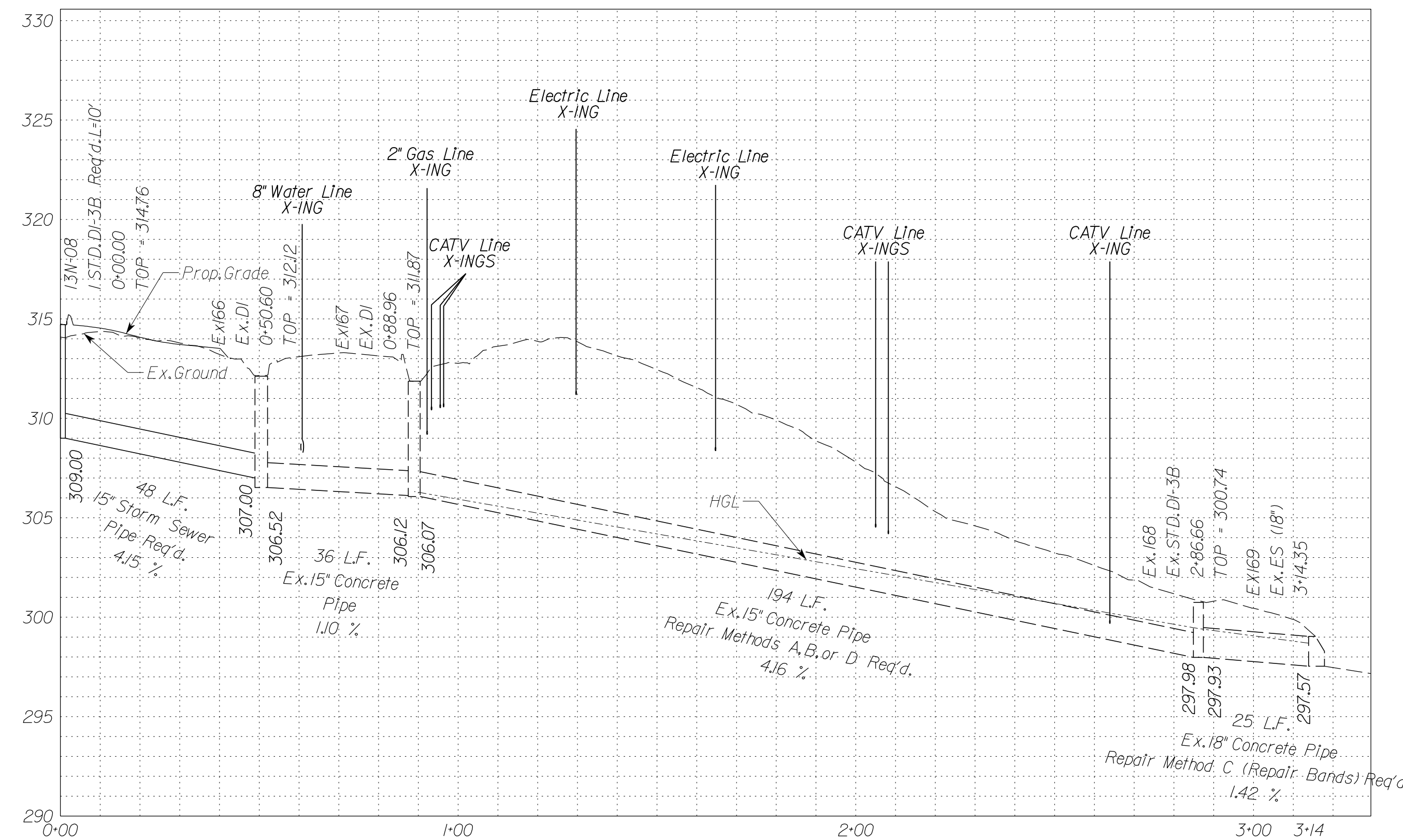
Stormsewer Profile 13N-04 to Ex165



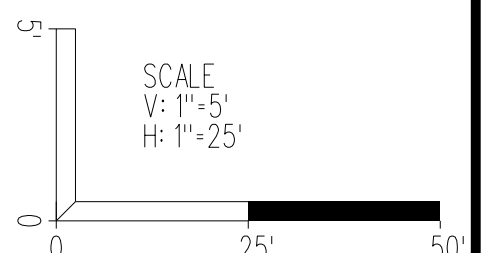
Stormsewer Profile 13N-06 to 13-60



Stormsewer Profile 13N-08 to Ex169



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(13N)A AREA 3
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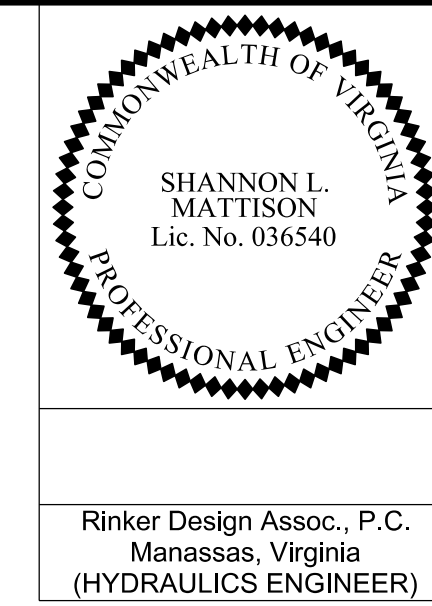
APPROVED FOR CONSTRUCTION

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  
 Dewberry - Ron Jakomlitch, PE, (703) 849-0651  
 SUBSURFACE UTILITY BY, DATE Accurmark - Michael Taylor, LS, (703) 635-3060, 12/2021

# Storm Sewer Profiles

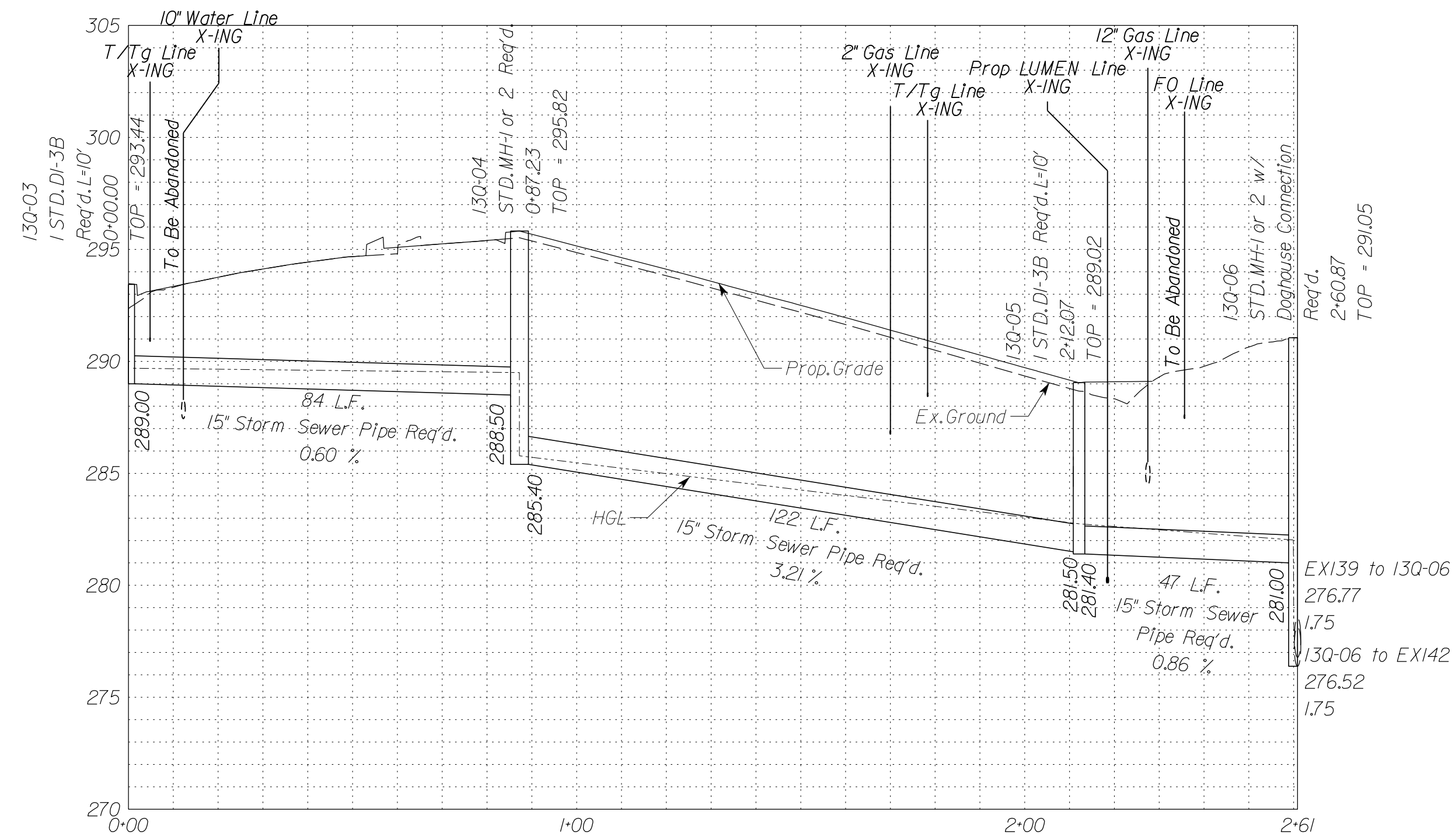


REVISED	STATE	ROUTE	STATE	VDOT PROJECT NO.	SHEET NO.
	VA	495		0495-029-419 C501 RW201	2L(130)A AREA 3

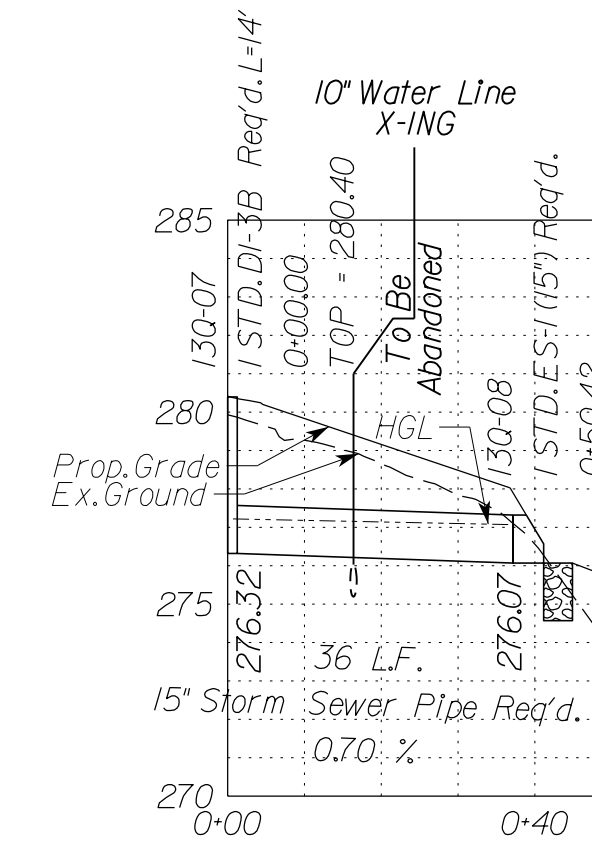
DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT

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

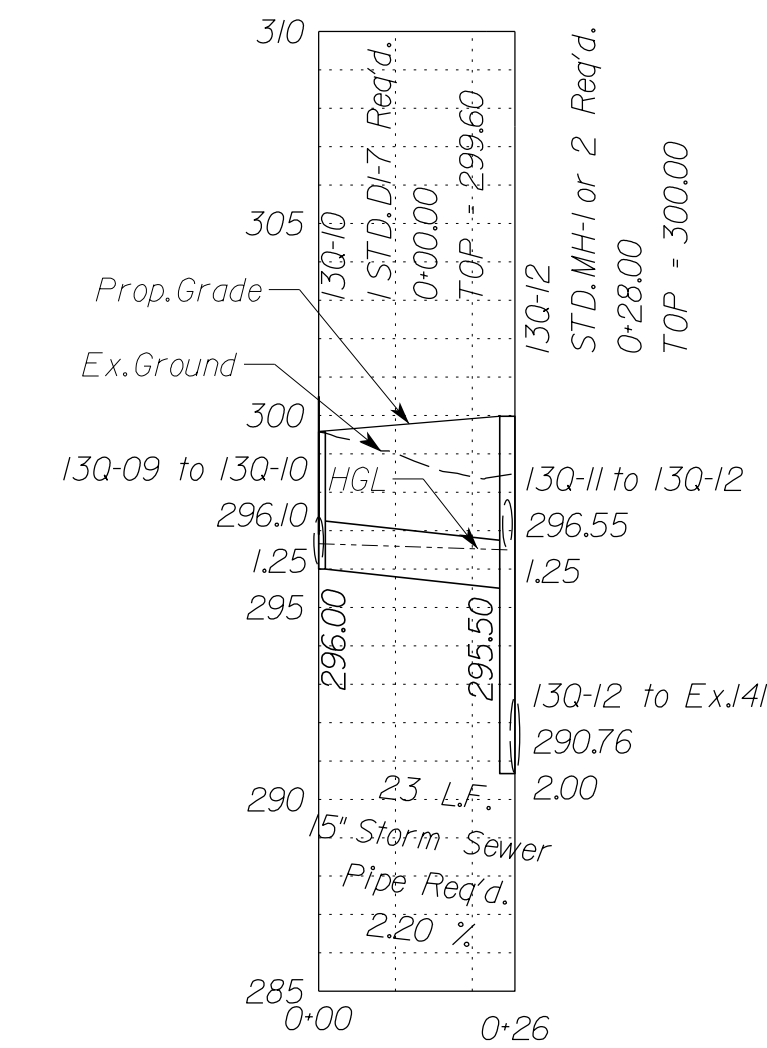
Stormsewer Profile 13Q-03 to 13Q-06



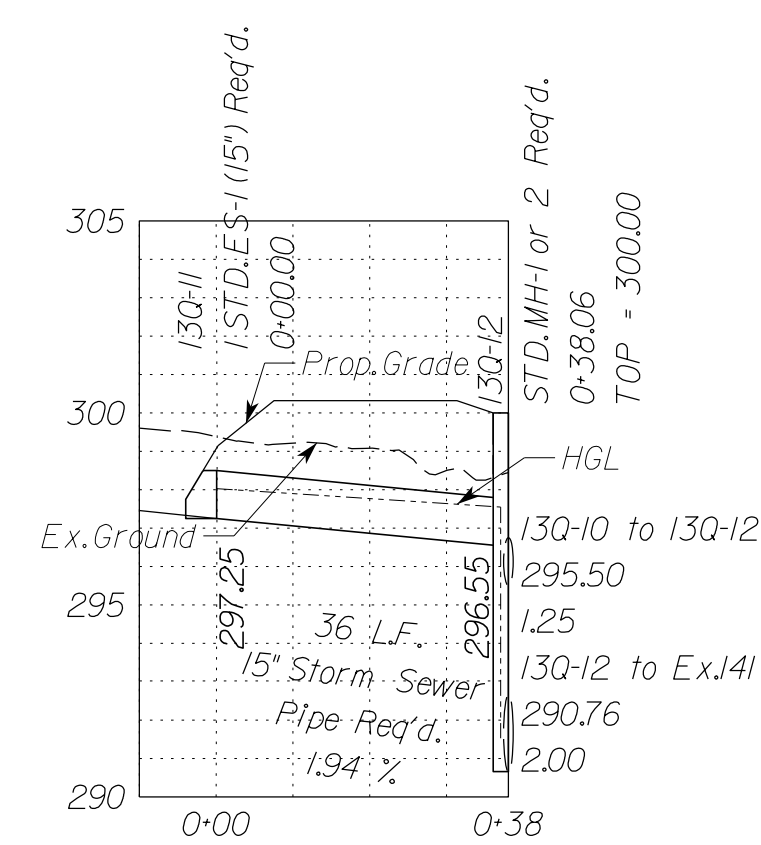
Stormsewer Profile 13Q-07 to 13Q-08



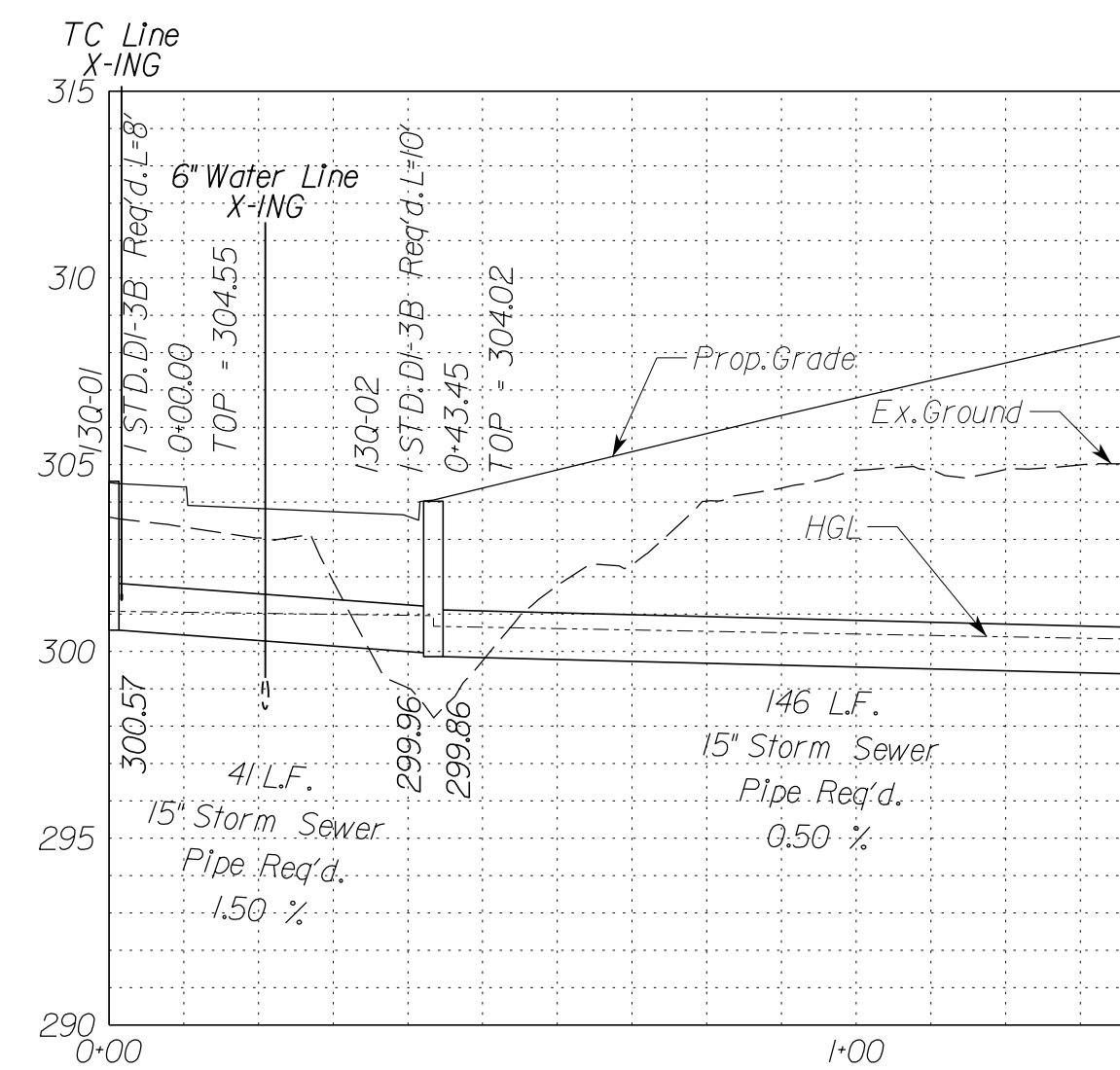
Stormsewer Profile 13Q-10 to 13Q-12



Stormsewer Profile 13Q-11 to 13Q-12



Stormsewer Profile 13Q-01 to 13-15

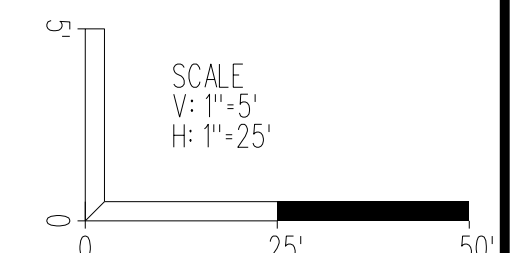


Match Line Sta. 1+40 See Sheet 2L(13)B

NOVA DISTRICT

10/6/2022

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(130)A AREA 3
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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 Accurmark - Michael Taylor, LS (703) 635-3060, 12/2021

# Storm Sewer Profiles

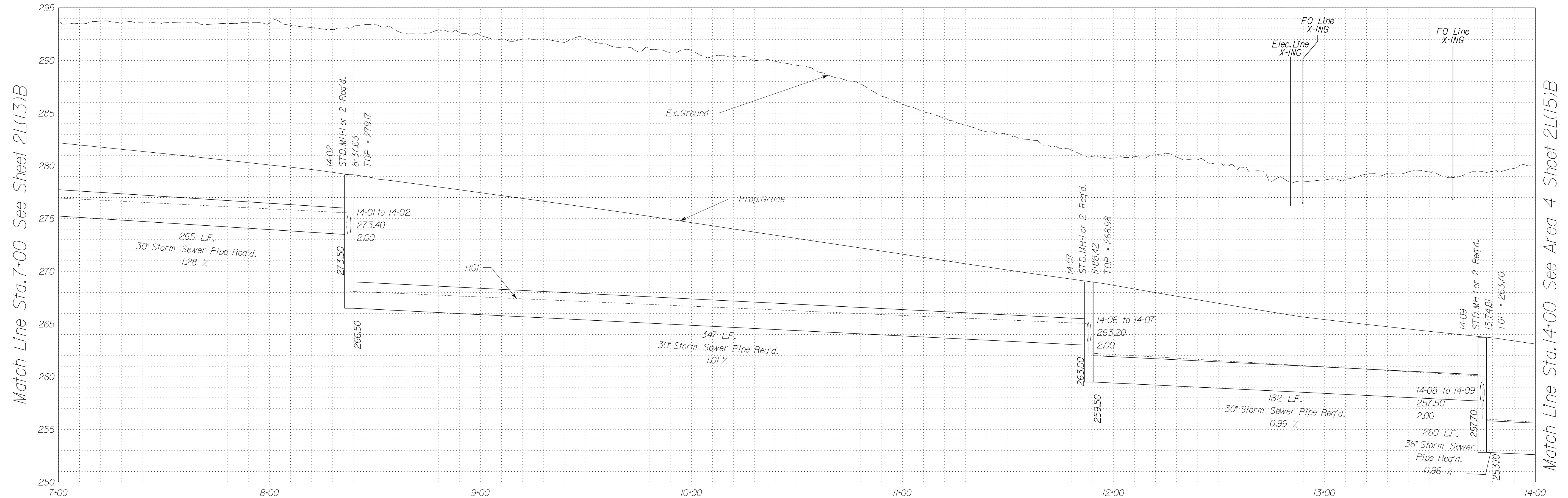
SHANNON L. MATTISON  
 Lic. No. 036540  
 PROFESSIONAL ENGINEER

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	2L(14)A AREA 3

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

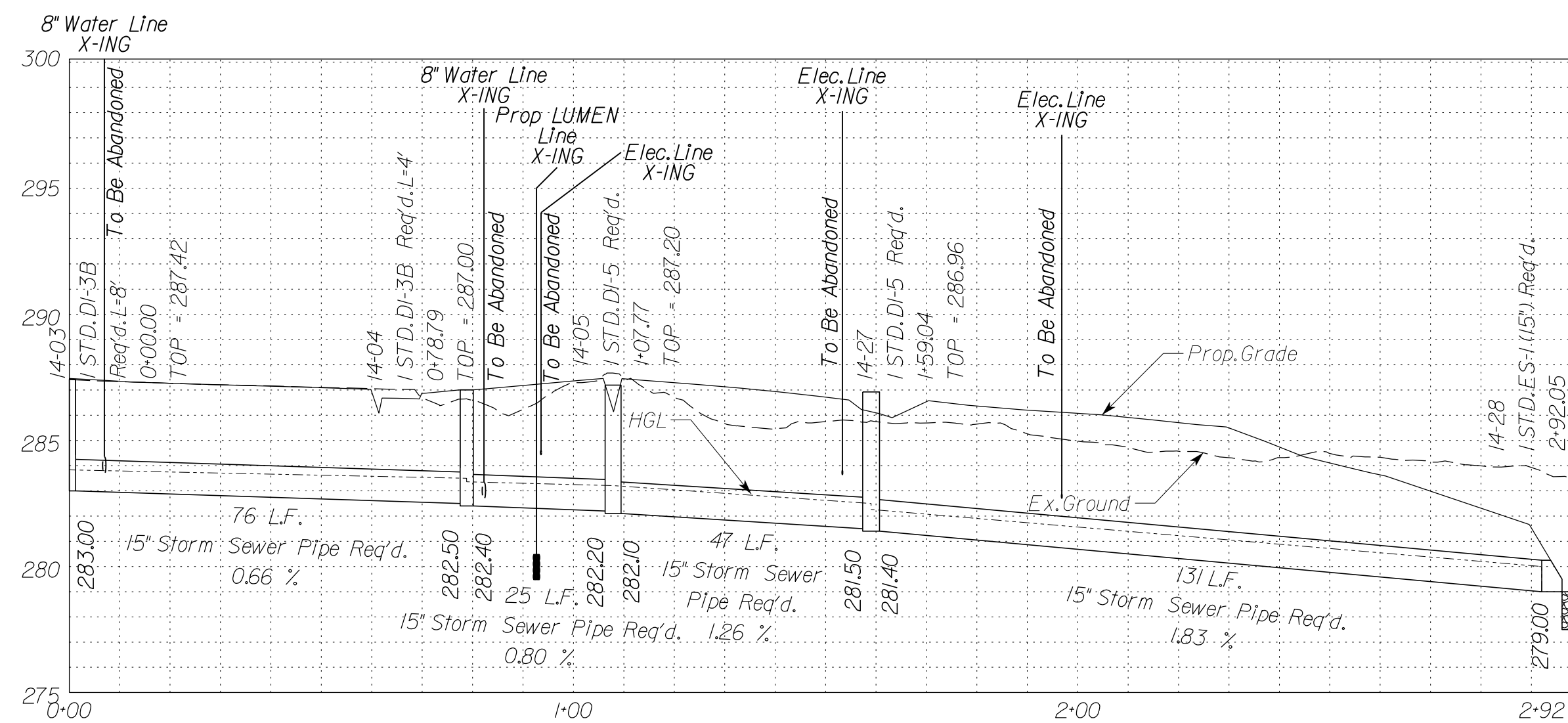
Stormsewer Profile 13-66 to 16-09



Match Line Sta. 7+00 See Sheet 2L(13)B

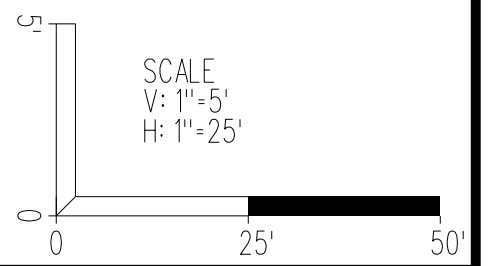
Match Line Sta. 14+00 See Area 4 Sheet 2L(15)B

Stormsewer Profile 14-03 to 14-28



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(14)A AREA 3
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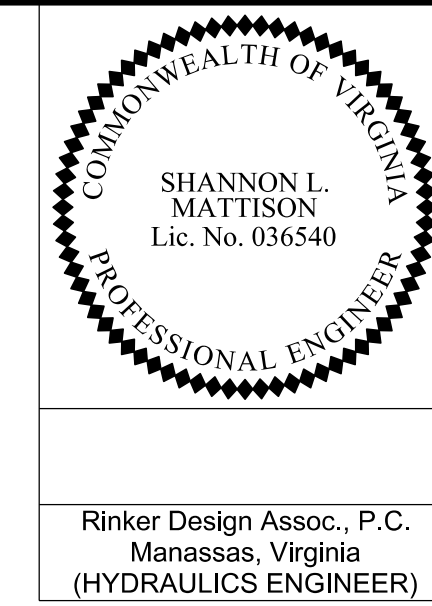
APPROVED FOR CONSTRUCTION

NOVA DISTRICT



PROJECT MANAGER\_VDOT - Rupal Shah, P.E. (703) 259-2362  
 SURVEYED BY, DATE\_RDA - Nicholas Kougoullis, 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

# Storm Sewer Profiles



REVISED	STATE	ROUTE	STATE	VDOT PROJECT NO.	SHEET NO.
	VA.	495		0495-029-419 C501 RW201	2L(14)B AREA 3

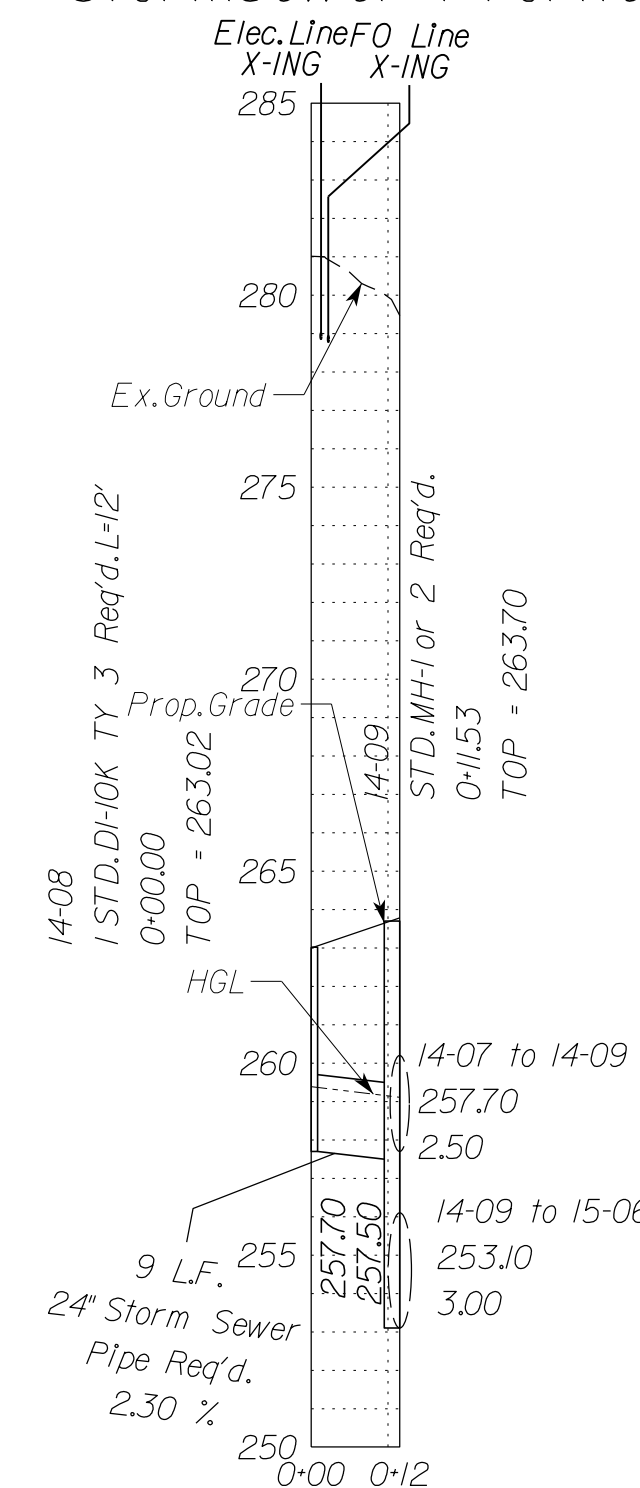
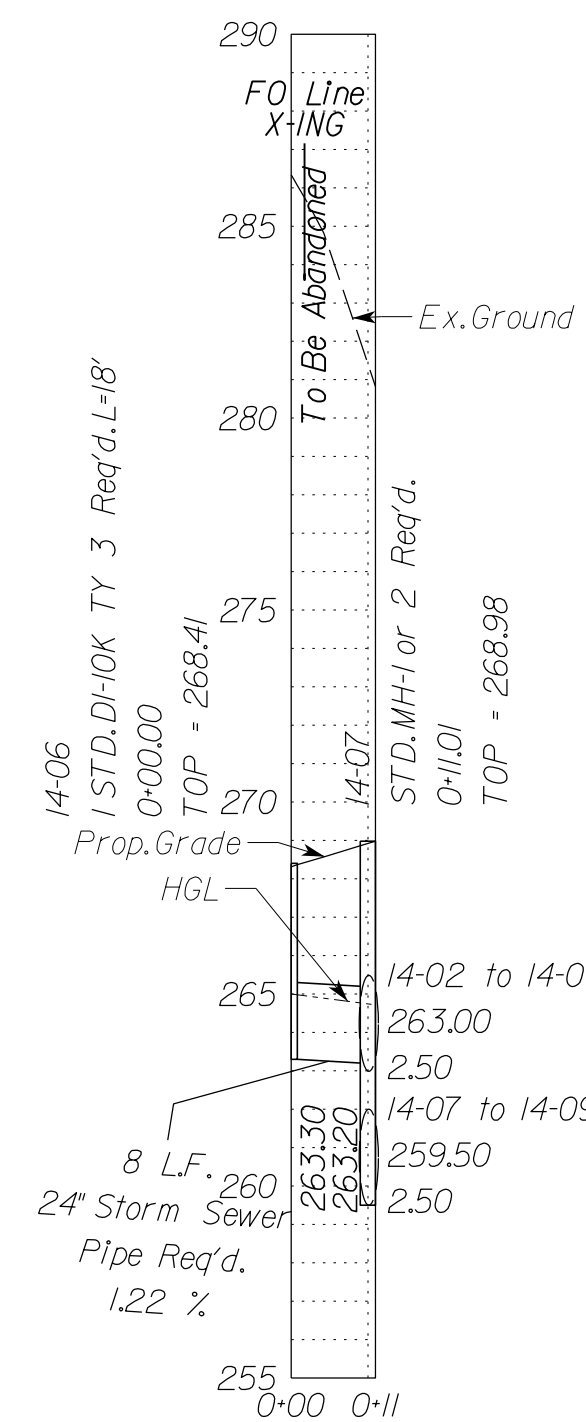
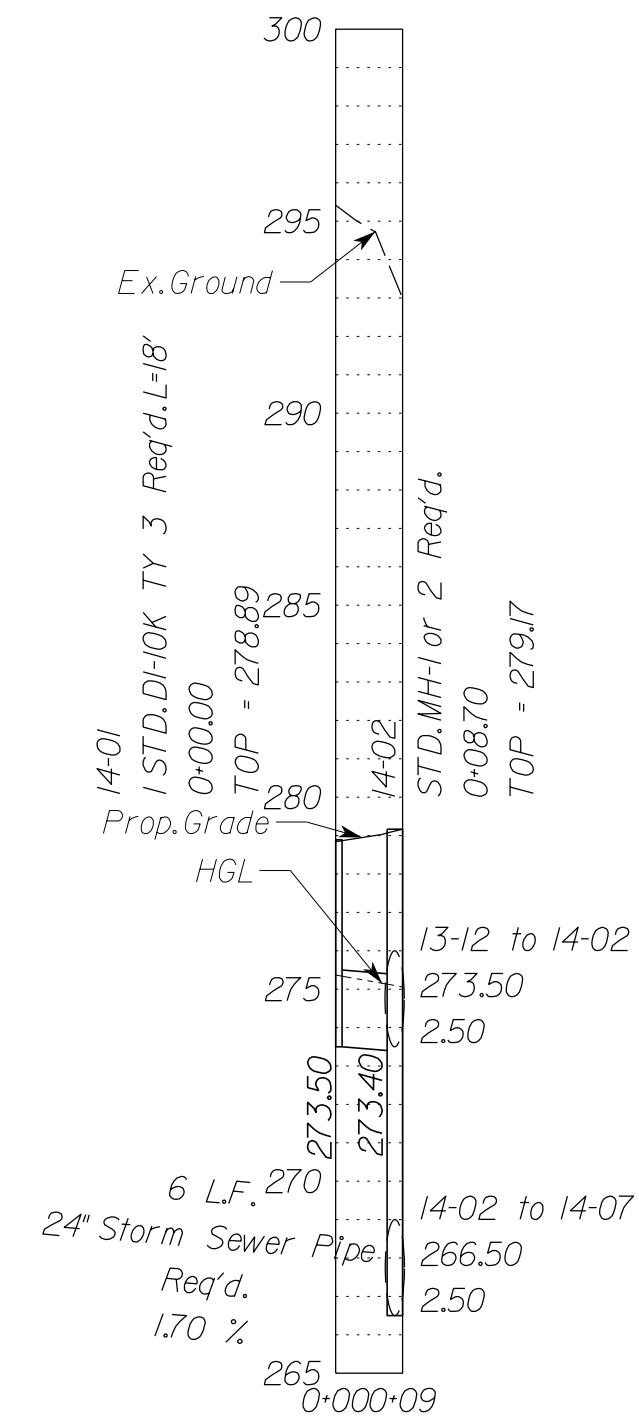
DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT

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

Stormsewer Profile 14-01 to 14-02

Stormsewer Profile 14-06 to 14-07

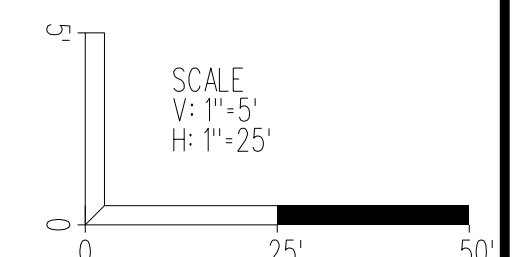
Stormsewer Profile 14-08 to 14-09



NOVA DISTRICT

10/6/2022

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. 2L(14)B AREA 3
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APPROVED FOR CONSTRUCTION

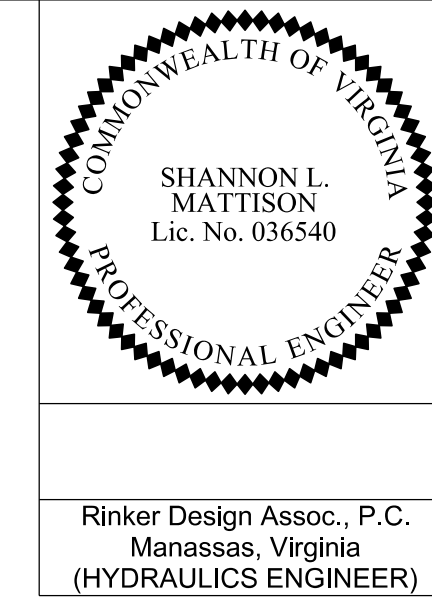


PROJECT MANAGER VDOT - Rinalpha, PE, (703) 259-2362  
 SURVEYED BY, DATE RDA - Nicholas, Kaugaulis, LS, (703) 334-0837, 12/2021  
 DESIGN BY RDA - Darrell, Fischer, PE, (703) 334-0823  
 SUBSURFACE UTILITY BY, DATE Accurmark - Michael, Taylor, LS, (703) 635-3060, 12/2021

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

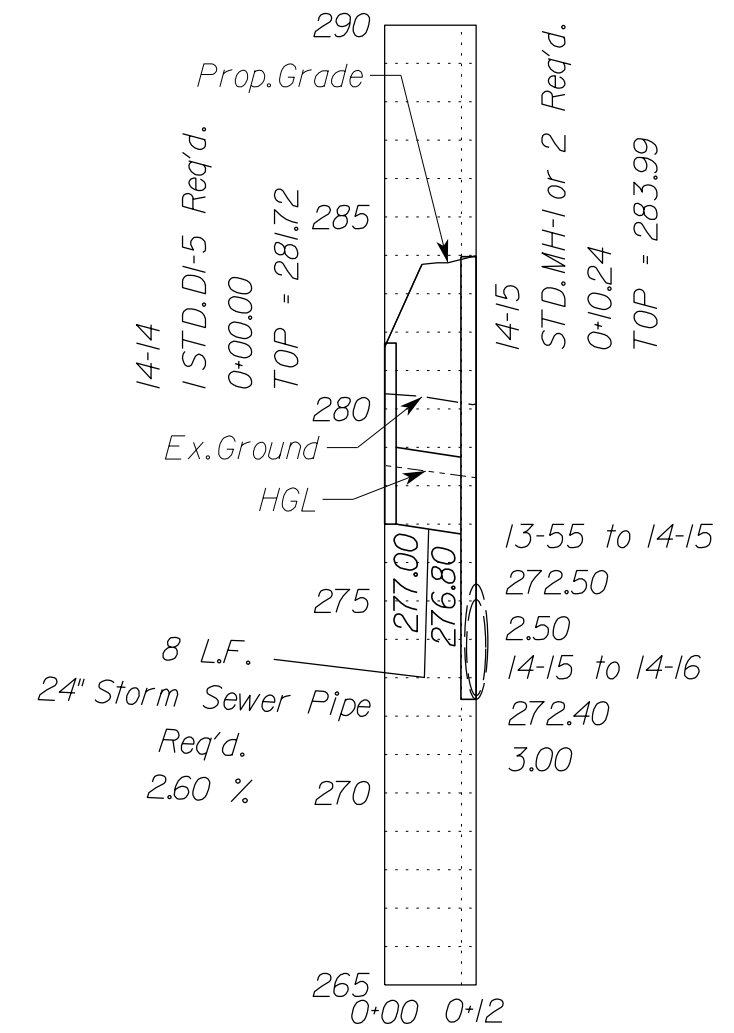


REVISED	STATE	ROUTE	STATE	VDOT PROJECT NO.	SHEET NO.
	VA.	495		0495-029-419 C501 RW201	2L1141C AREA 3

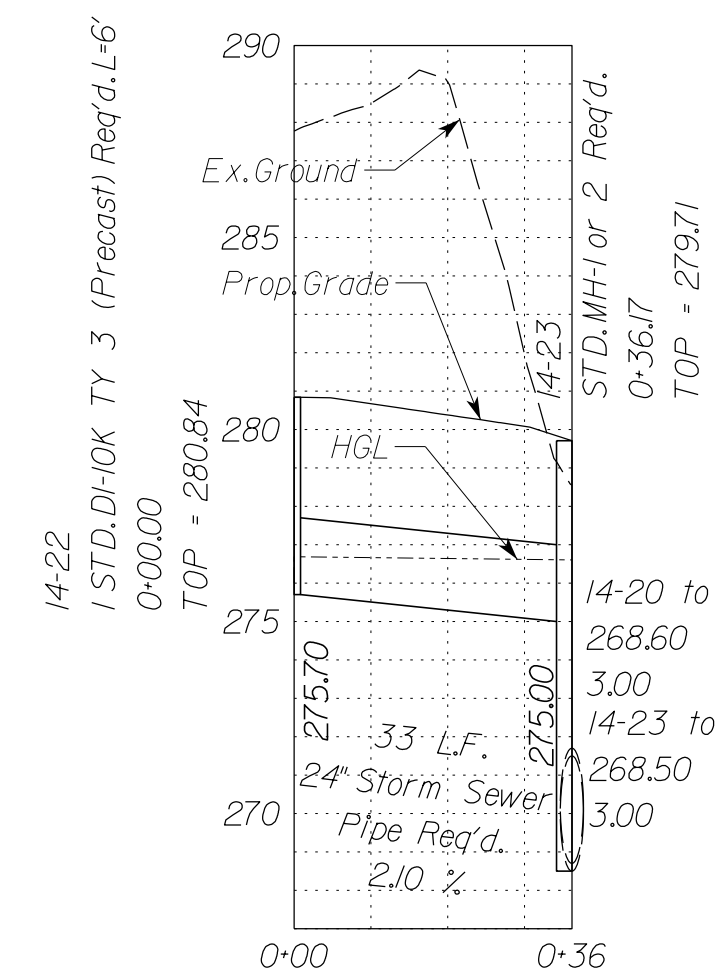
DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT

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

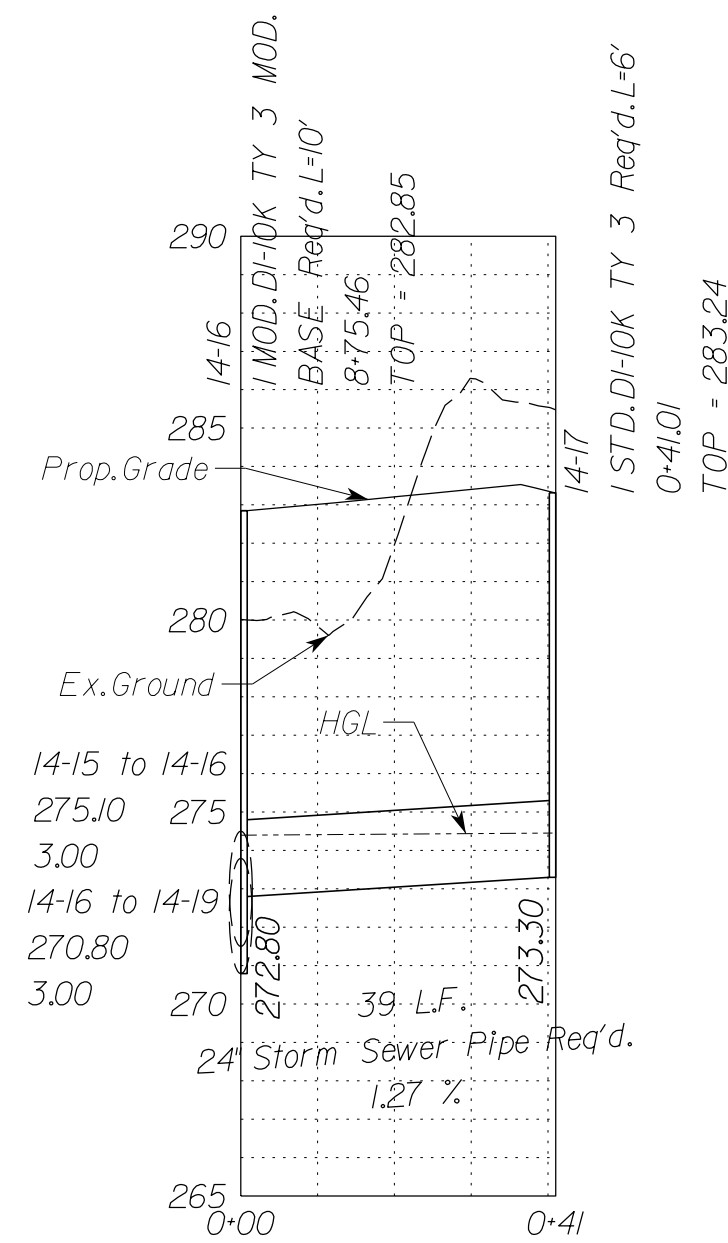
Stormsewer Profile 14-14 to 14-15



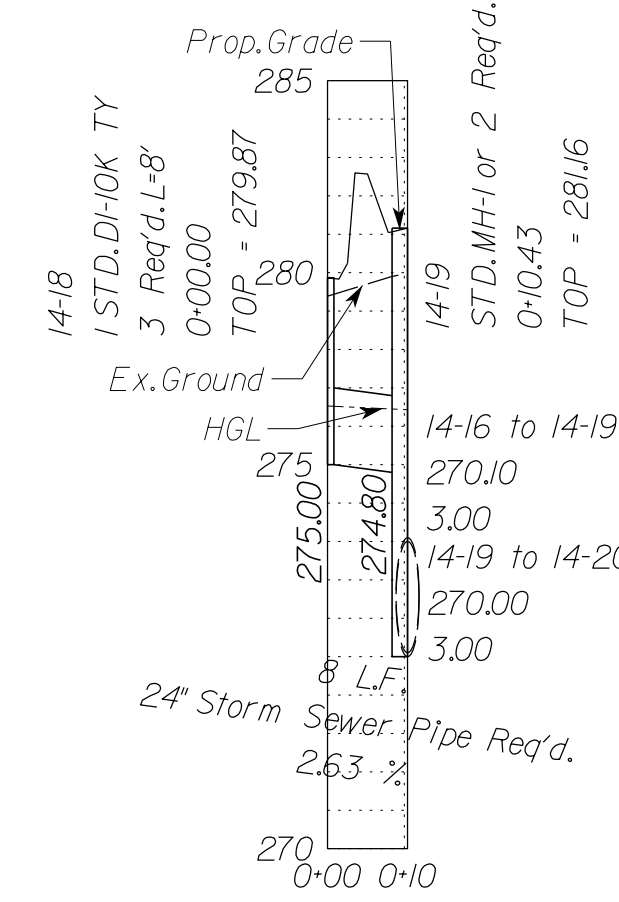
Stormsewer Profile 14-22 to 14-23



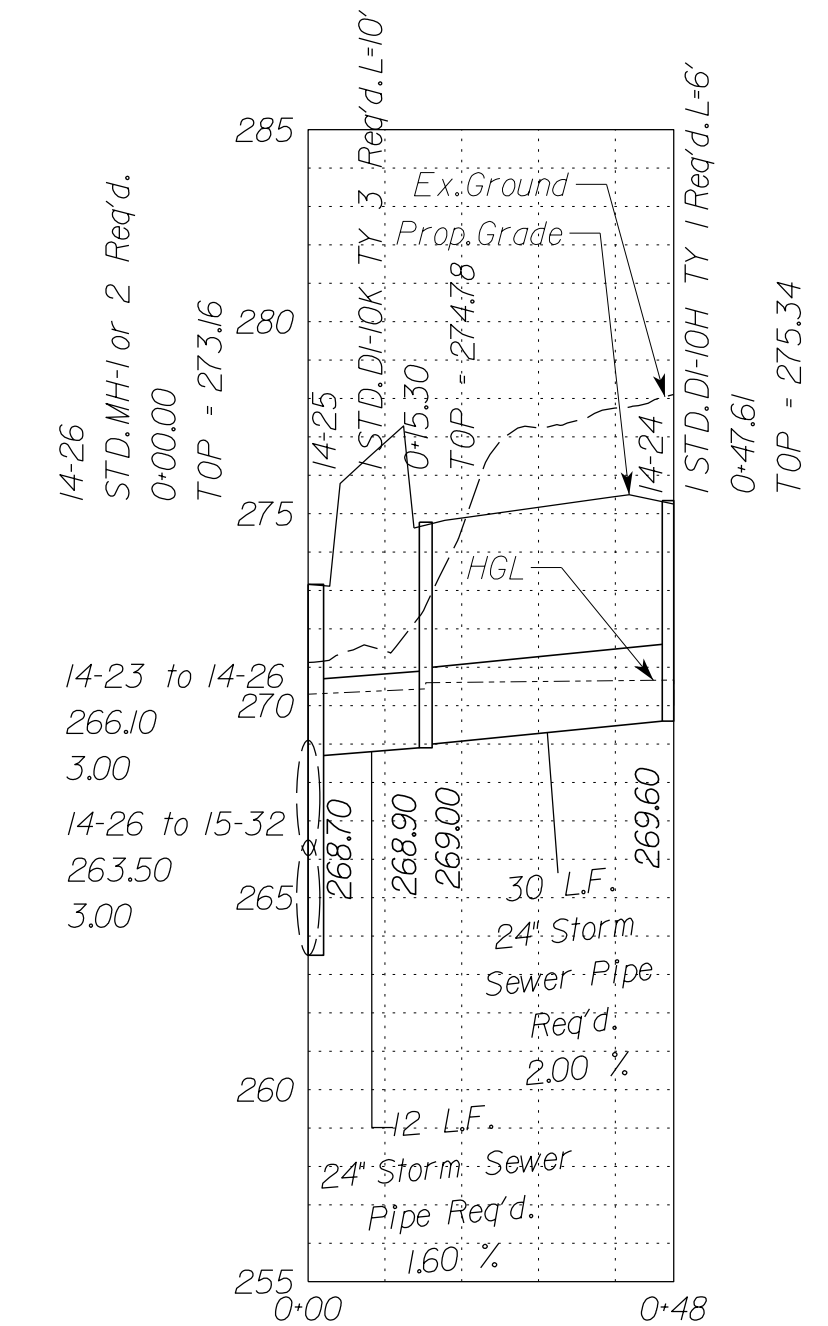
Stormsewer Profile 14-16 to 14-17



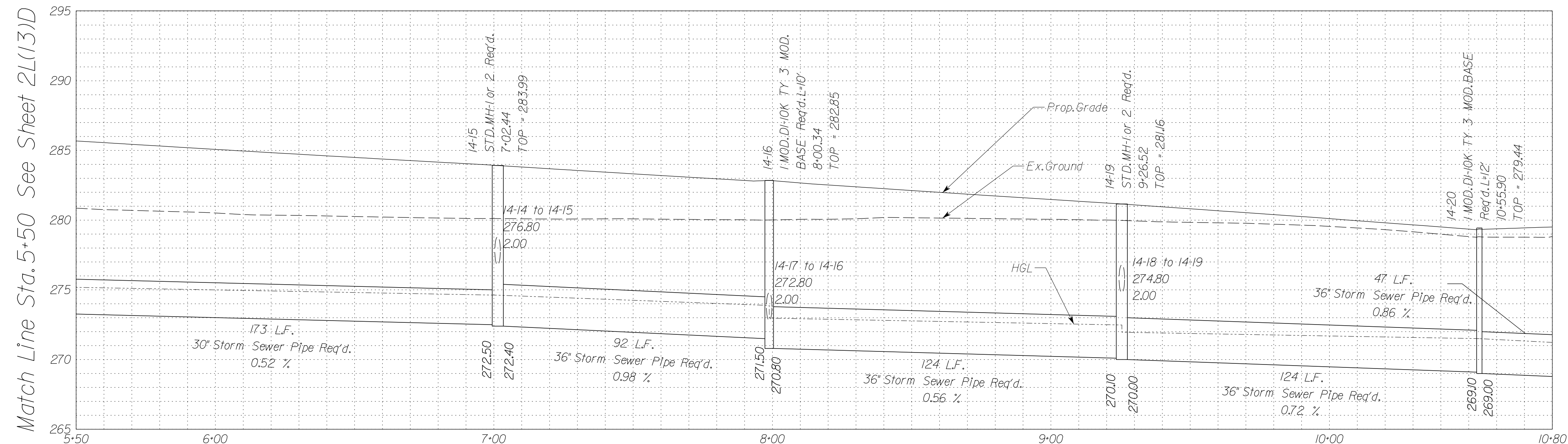
Stormsewer Profile 14-18 to 14-19



Stormsewer Profile 14-26 to 14-24

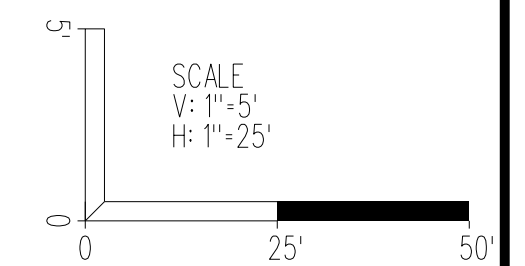


Stormsewer Profile 13-56 to 16-24



Match Line Sta. 5+50 See Sheet 2L1131D

Match Line Sta. 10+80 See Sheet 2L1141D



VDOT PROJECT NO. 0495-029-419	SHEET NO. 2L1141C AREA 3
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APPROVED FOR CONSTRUCTION

NOVA DISTRICT

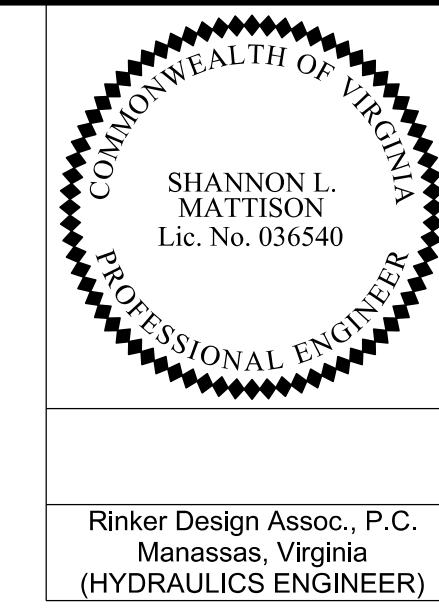


PROJECT MANAGER\_VDOT - Rupal Shah, P.E. (703) 259-2362  
 SURVEYED BY, DATE\_RDA - Nicholas Kaugaulis, L.S. (703) 334-0837, 12/2021  
 DESIGN BY\_RDA - Darrell Fischer, P.E. (703) 334-0823  
 Dewberry - Ron Jakomlitch, P.E. (703) 849-0651  
 SUBSURFACE UTILITY BY, DATE\_Accurmark - Michael Taylor, L.S. (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

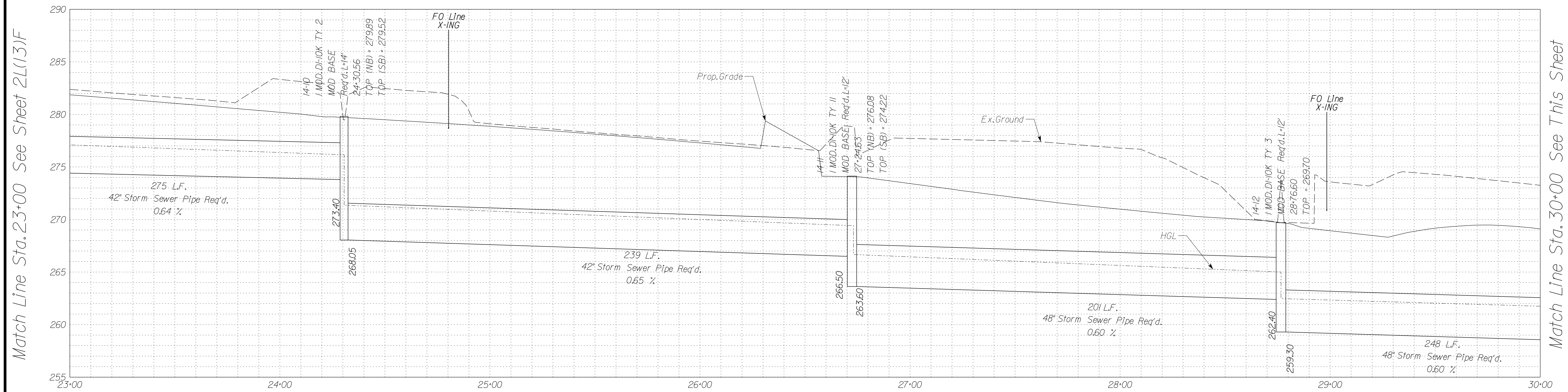


REVISED	STATE	ROUTE	STATE	VDOT PROJECT NO.	SHEET NO.
	VA	495		0495-029-419 C501 RW201	2L(14)D AREA 3

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)

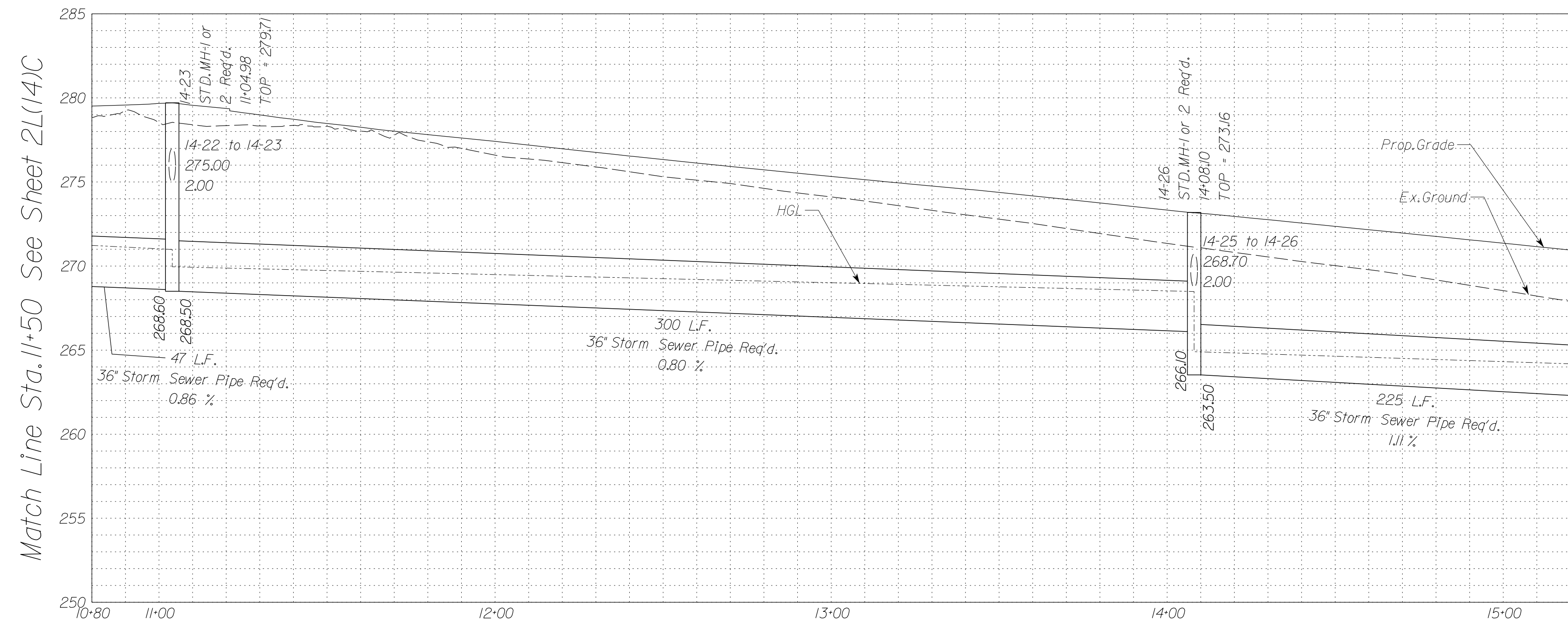
Stormsewer Profile 12-19 to 17-15



Match Line Sta. 23+00 See Sheet 2L(13)F

Match Line Sta. 30+00 See This Sheet

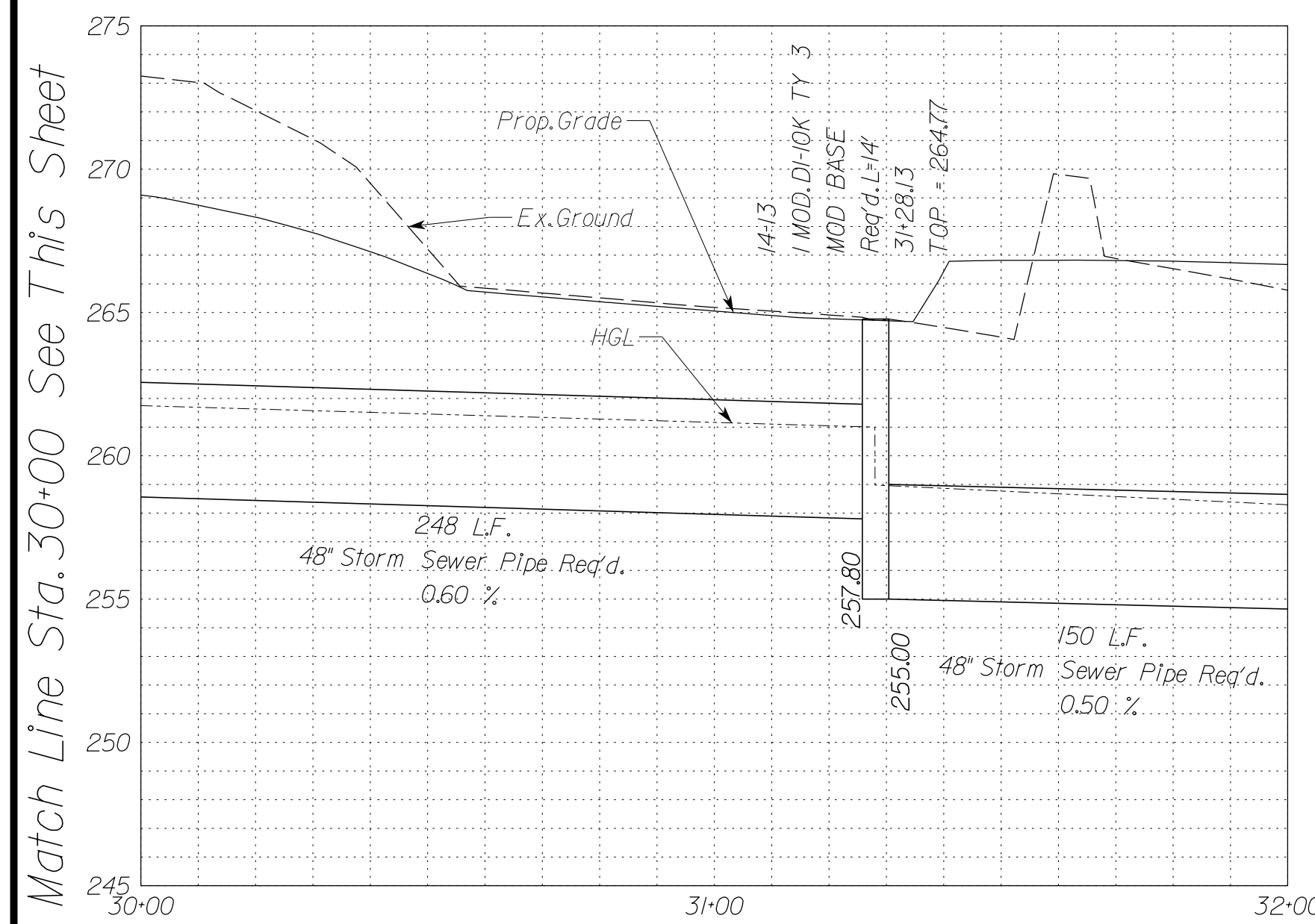
Stormsewer Profile 13-56 to 16-24



Match Line Sta. 10+80 See Sheet 2L(14)C

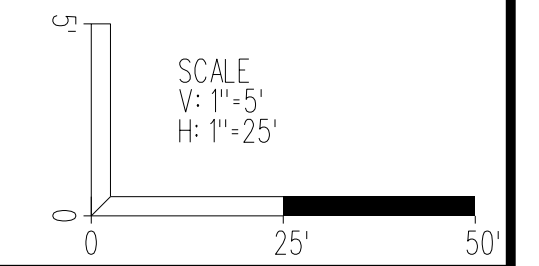
Match Line Sta. 15+00 See Sheet 2L(15)E  
 See Area 4 Plan Set

Stormsewer Profile 12-19 to 17-15



Match Line Sta. 30+00 See This Sheet

Match Line Sta. 32+00 See Area 4 Sheet 2L(15)A



VDOT PROJECT NO. 0495-029-419	SHEET NO. 2L(14)D AREA 3
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APPROVED FOR CONSTRUCTION

NOVA DISTRICT

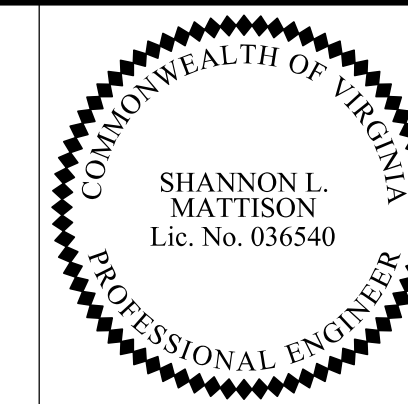






PROJECT MANAGER VDOT - Rupal Shah, P.E. (703) 259-2362  
 SURVEYED BY, DATE RDA - Nicholas Kougoullis, LS (703) 334-0837, 12/2021  
 DESIGN BY RDA - Darrell Fischer, P.E. (703) 334-0823  
 SUBSURFACE UTILITY BY, DATE Accurark - Michael Taylor, LS (703) 635-3060, 12/2021

# STORMWATER MANAGEMENT FACILITY DETAIL

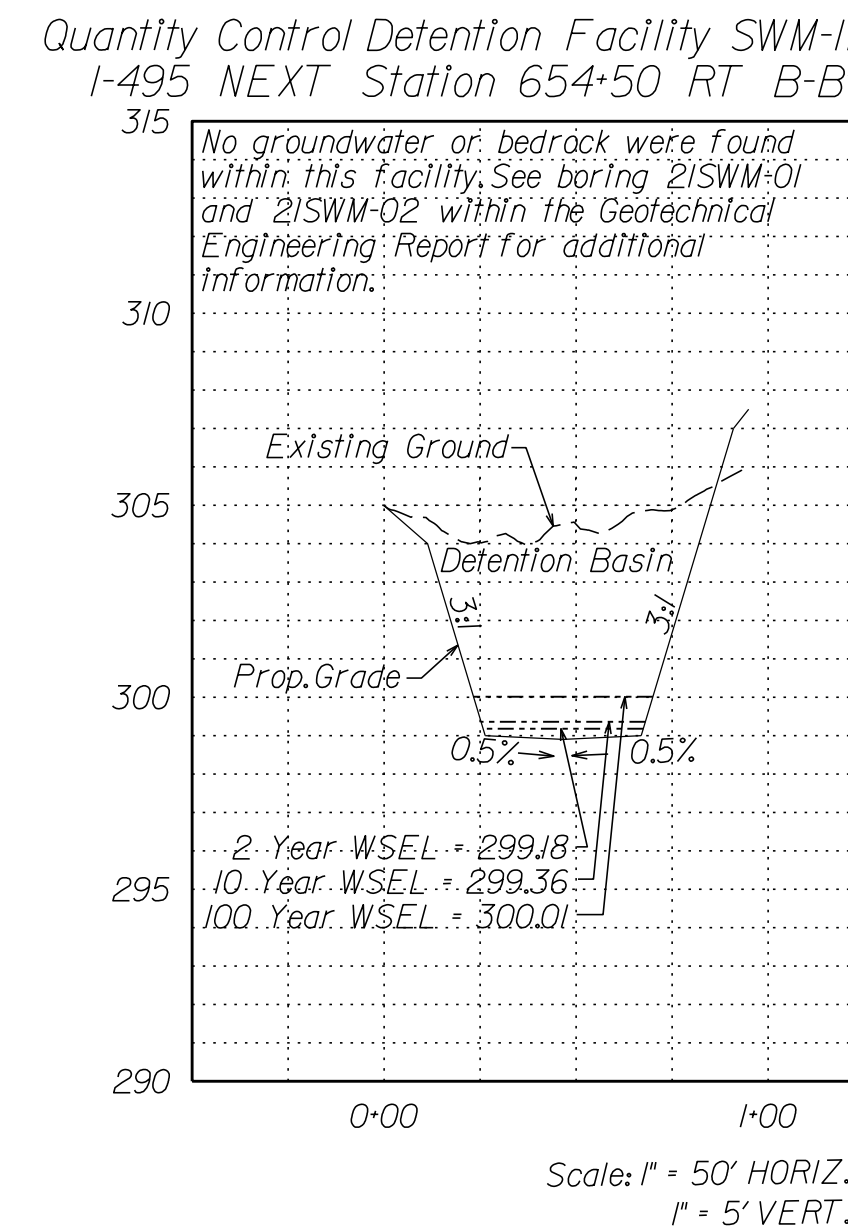
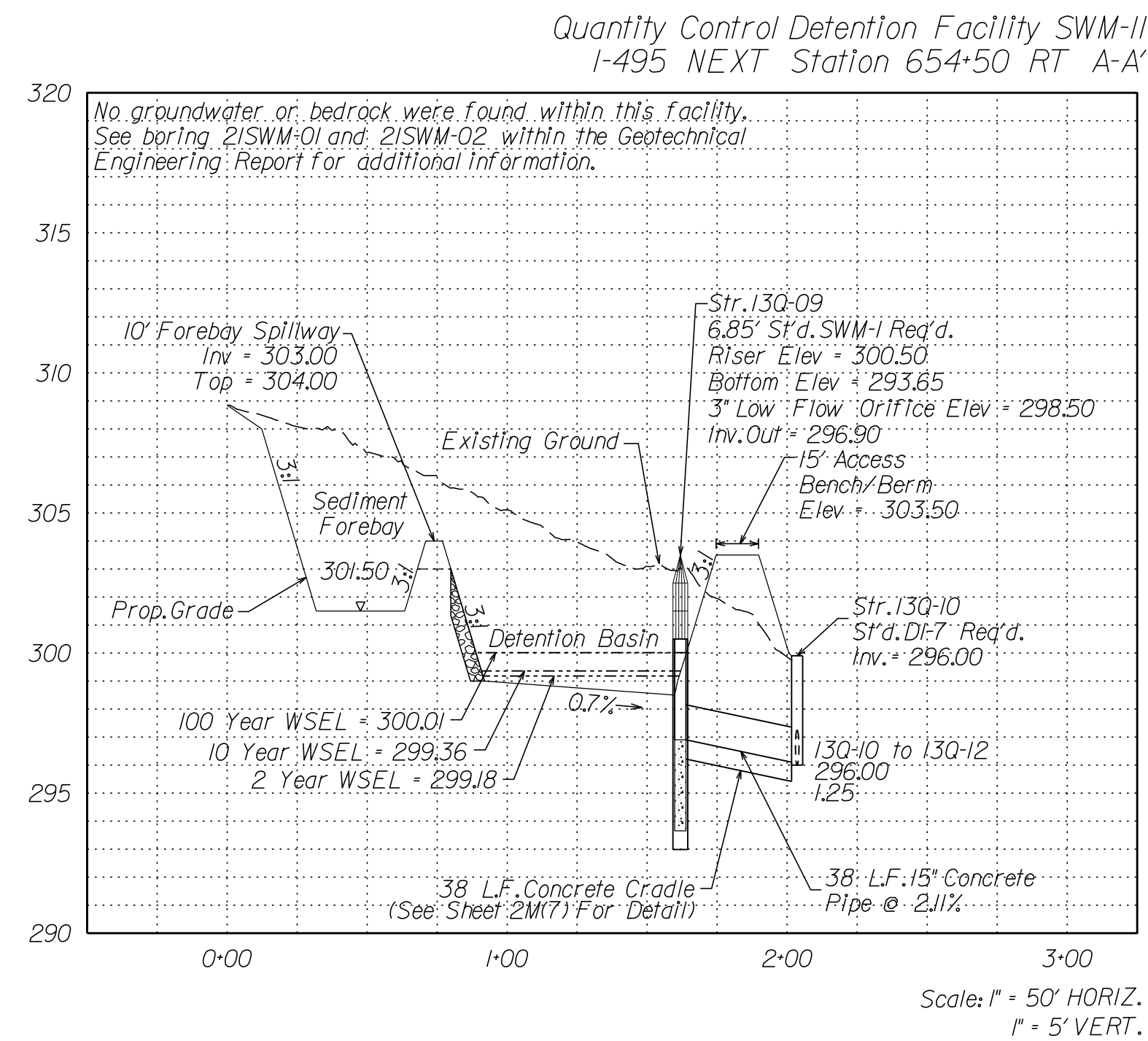


Rinker Design Assoc., P.C.  
 Manassas, Virginia  
 (HYDRAULICS ENGINEER)

REVISION	STATE	ROUTE	STATE	VDOT PROJECT NO.	SHEET NO.
	VA.	495		0495-029-419 C501 RW201	2M(5) AREA 3

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

## SWM-II PROFILE VIEW QUANTITY CONTROL DETENTION FACILITY



- 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 extent possible, in direct alignment with each other.
  - Design observes all geotechnical recommendations. 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

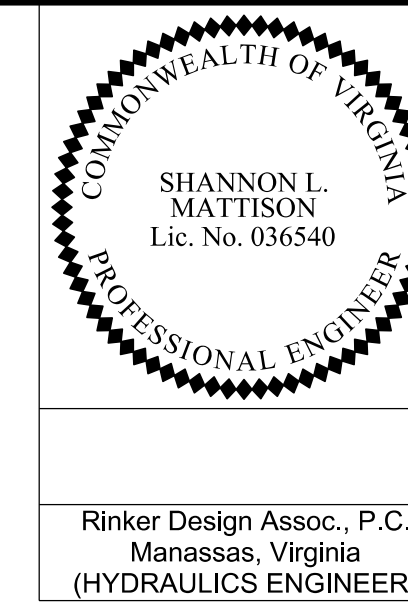
HORIZ: 1"=50'	VDOT PROJECT NO.	SHEET NO.
0 20' 50'	0495-029-419	2M(5) AREA 3

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

# STORMWATER MANAGEMENT FACILITY DETAIL



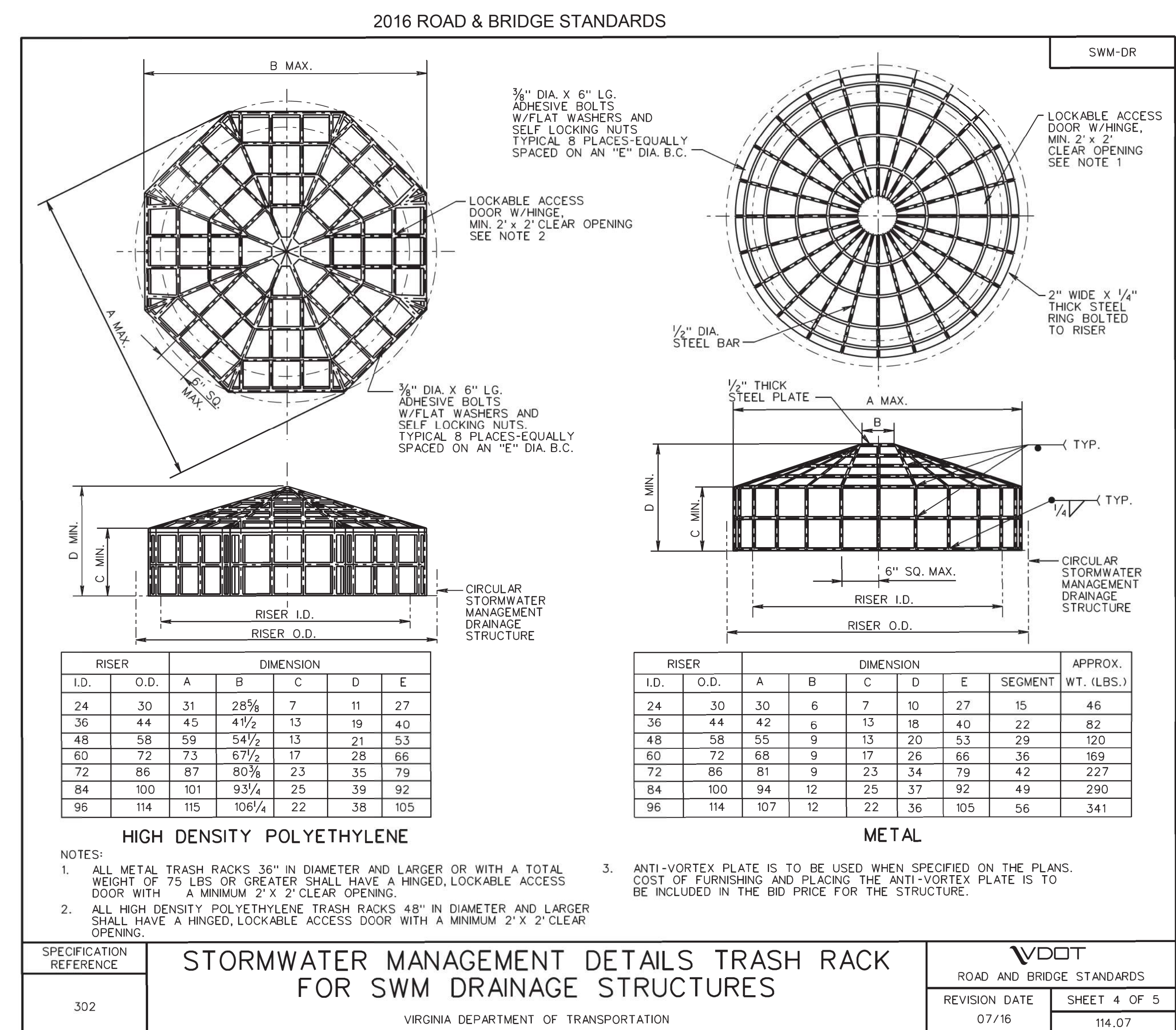
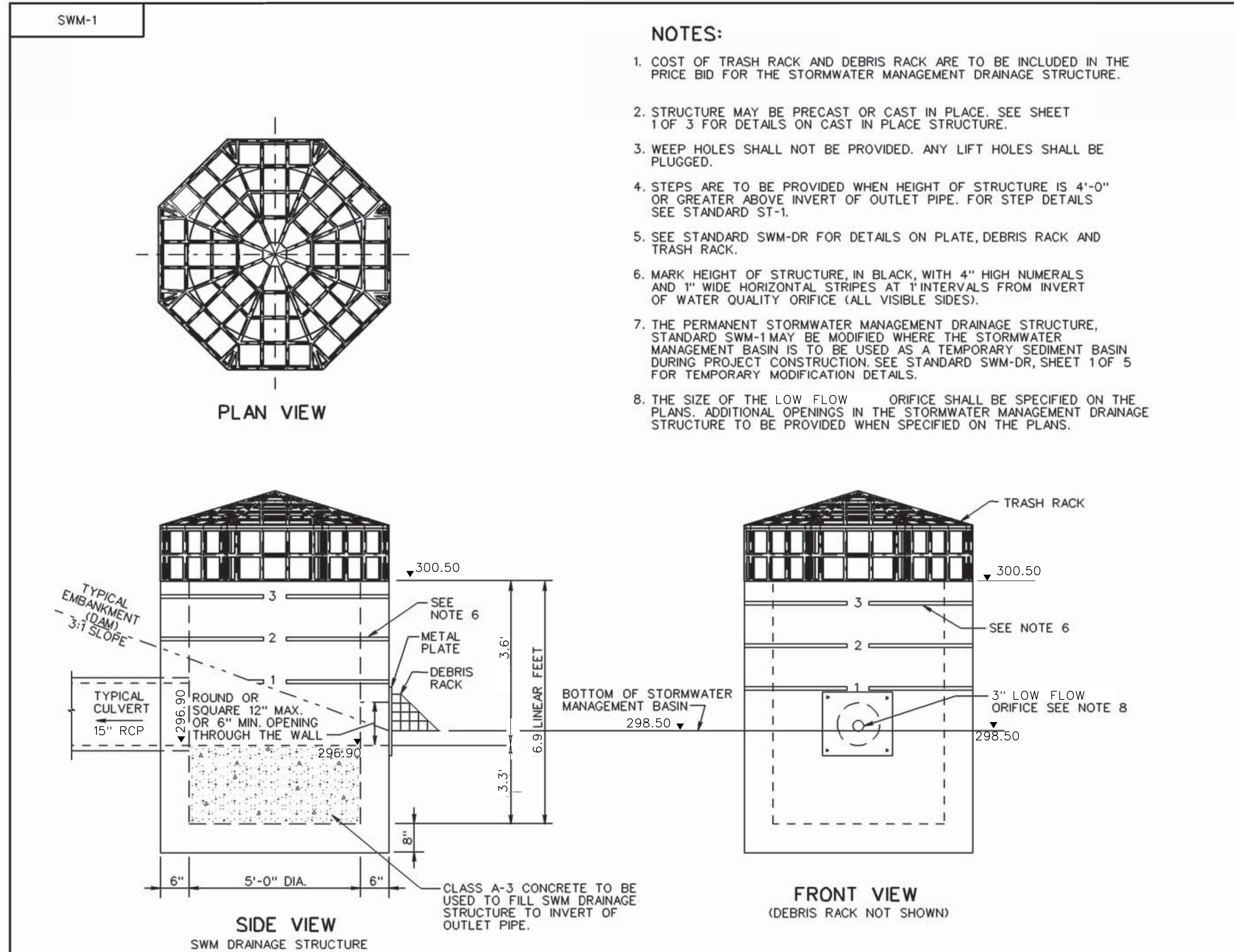
Rinker Design Assoc., P.C.  
 Manassas, Virginia  
 (HYDRAULICS ENGINEER)

REVISED	STATE	ROUTE	STATE	VDOT PROJECT NO.	SHEET NO.
	VA.	495		0495-029-419 C501 RW201	2M(6) AREA 3

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

## SWM-II DETAILS QUANTITY CONTROL DETENTION FACILITY

### 2016 ROAD & BRIDGE STANDARDS



RISER		DIMENSION				
I.D.	O.D.	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 1/4	25	39	92
96	114	115	106 1/4	22	38	105

RISER		DIMENSION					APPROX.	
I.D.	O.D.	A	B	C	D	E	WT. (LBS.)	
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

SPECIFICATION REFERENCE	STORMWATER MANAGEMENT DETAILS TRASH RACK FOR SWM DRAINAGE STRUCTURES	VDOT ROAD AND BRIDGE STANDARDS
302	VIRGINIA DEPARTMENT OF TRANSPORTATION	REVISION DATE 07/16 SHEET 4 OF 5 114.07

VDOT ROAD AND BRIDGE STANDARDS		PRECAST STORMWATER MANAGEMENT DRAINAGE STRUCTURE (13Q-09)	SPECIFICATION REFERENCE
SHEET 2 OF 3	REVISION DATE 08/10	VIRGINIA DEPARTMENT OF TRANSPORTATION	105 302

### 2016 ROAD & BRIDGE STANDARDS

NOVA DISTRICT

10/28/2022

APPROVED FOR CONSTRUCTION

VDOT PROJECT NO. 0495-029-419	SHEET NO. 2M(6) AREA 3
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PROJECT MANAGER VDOT - *Ritapal 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 Jakomilich, PE, (703) 849-0651*  
 SUBSURFACE UTILITY BY, DATE Accurmark - *Michael Taylor, LS, (703) 635-3060, 12/2021*

# STORMWATER MANAGEMENT FACILITY DETAIL

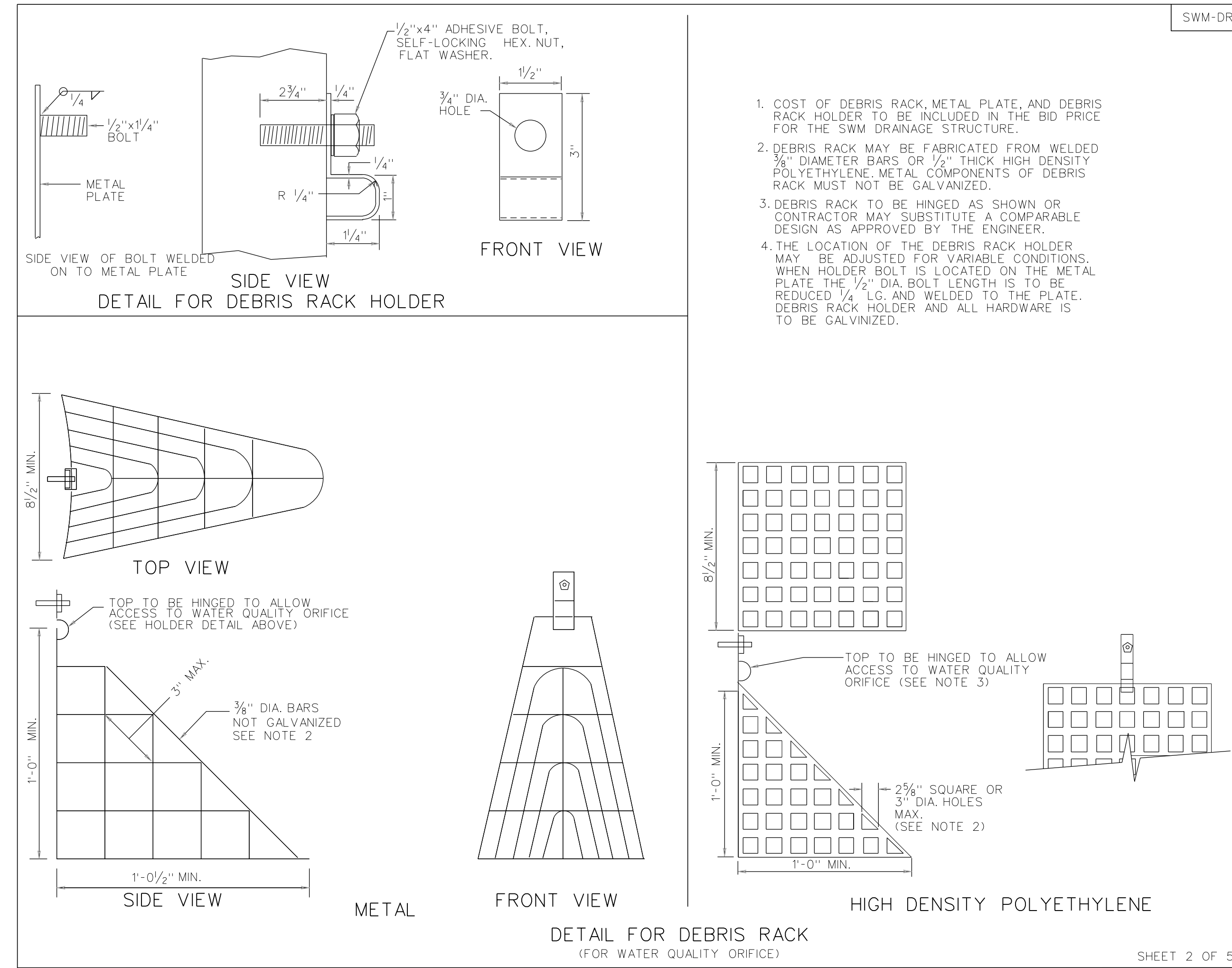


Rinker Design Assoc., P.C.  
 Manassas, Virginia  
 (HYDRAULICS ENGINEER)

REVISED	STATE	ROUTE	STATE	VDOT PROJECT NO.	SHEET NO.
	VA.	495		0495-029-419 C501 RW201	2M(7) AREA 3

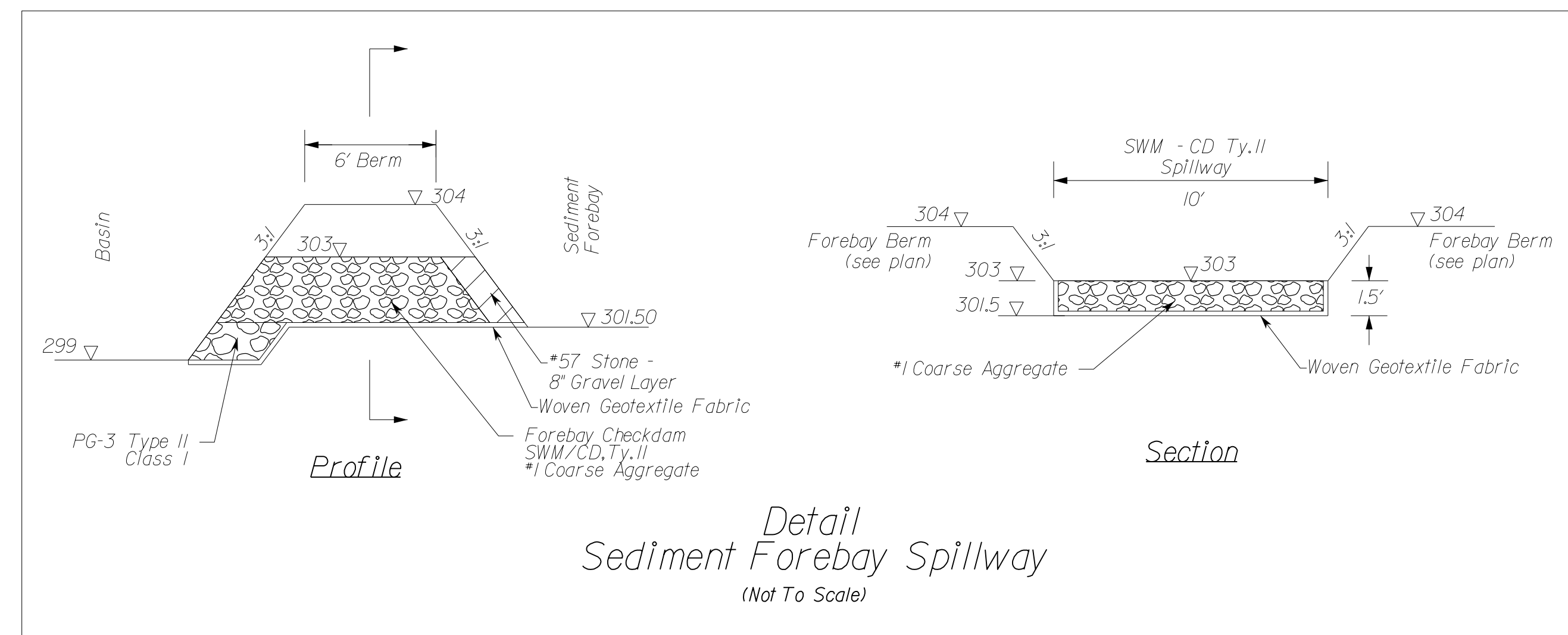
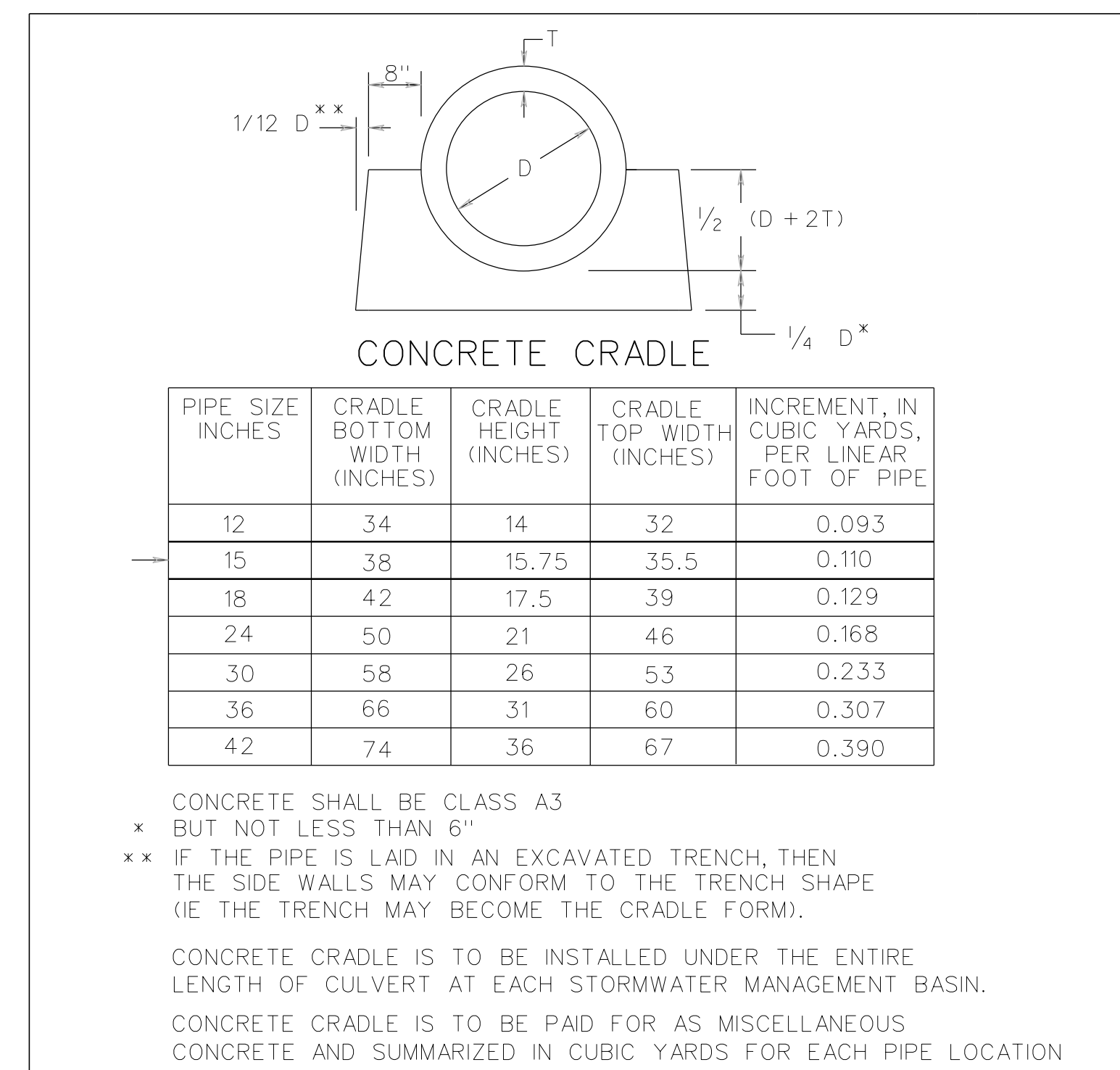
DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT

## SWM-II DETAILS QUANTITY CONTROL 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

- 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 extent possible, in direct alignment with each other.
  - Design observes all geotechnical recommendations. 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.



APPROVED FOR CONSTRUCTION



# Roadside Development Area 3

PROJECT MANAGER VDOT - Riprap, Shrub, 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, Jakomlitch, PE, (703) 849-0651  
SUBSURFACE UTILITY BY, DATE Accurmark - Michael, Taylor, LS, (703) 635-3060, 12/2021

REVISED	STATE	ROUTE	STATE	VDOT PROJECT NO.	SHEET NO.
	VA	495		0495-029-419 C501 RW201	2N AREA 3

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 TREFOIL (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

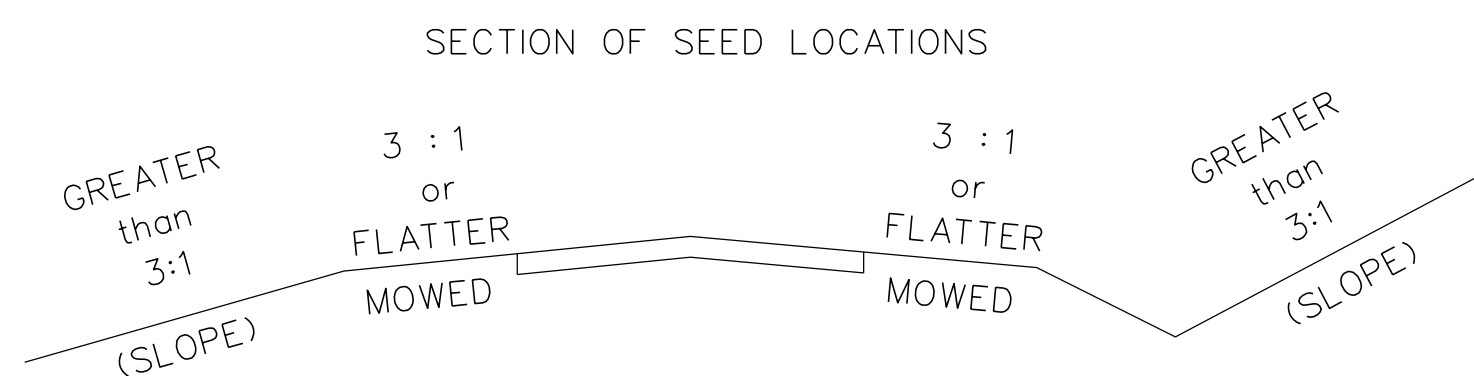
## TEMPORARY SEED MIX

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

- \* 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 LBS.	P LBS.	K LBS.					
0495-029-419	1407	1126			309	2.21 AC.	35.92	779	995	498					
								FERTILIZER - TEMPORARY							
								-	-	-					
								FERTILIZER - OVERSEEDING							
								-	-	-					

**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.

⊗ 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.

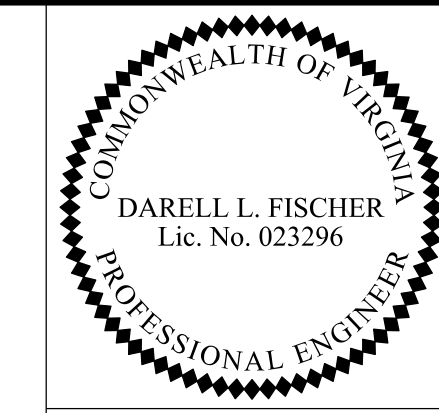
FERTILIZER (15-30-15) = 3,500 LBS. (REGULAR & TEMPORARY)  
FERTILIZER (46-0-0) = 522 LBS. (OVERSEEDING)



PROJECT MANAGER VDOT - 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 Accurmark - Michael Taylor, L.S. (703) 635-3060, 12/2021

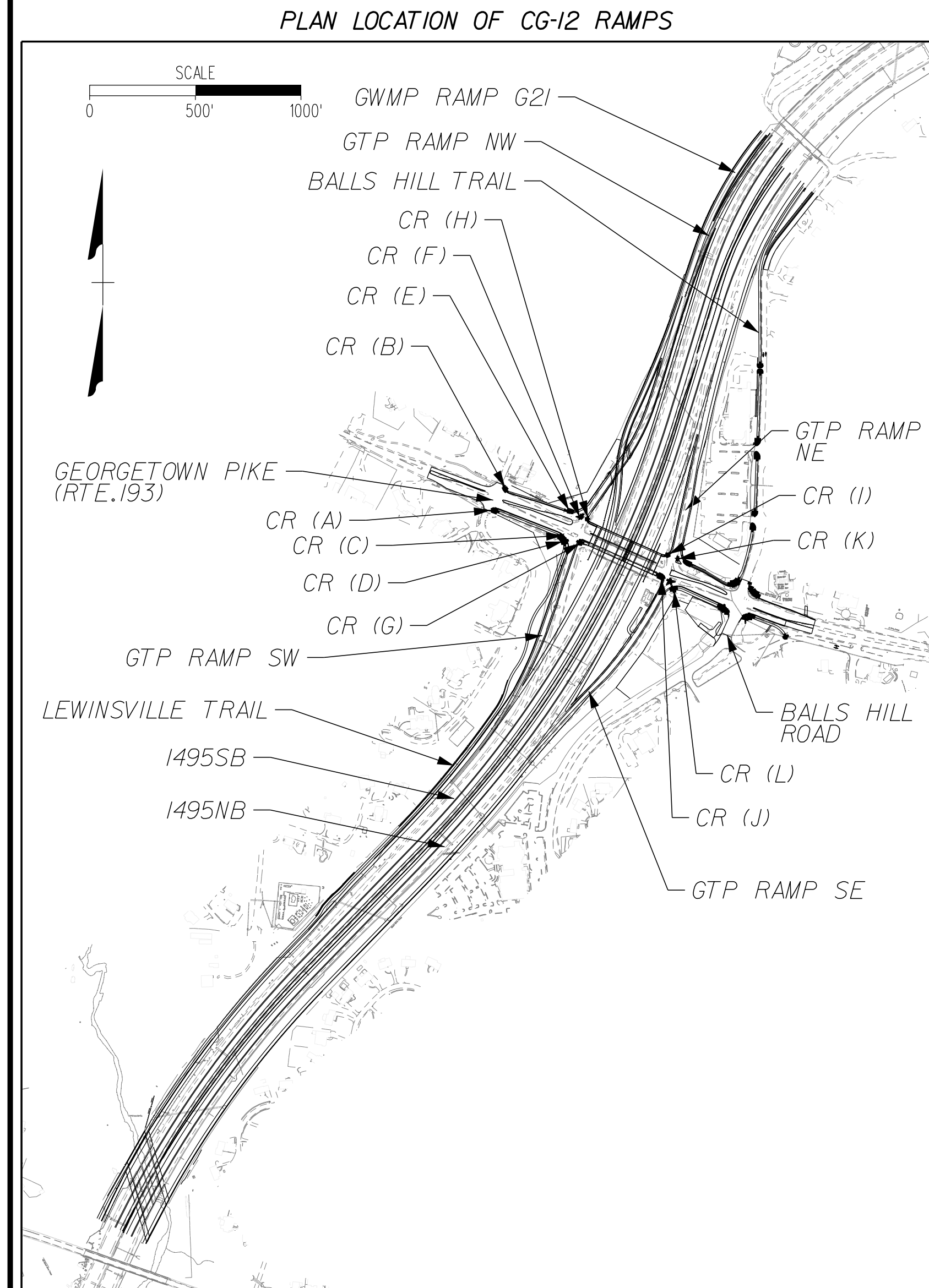
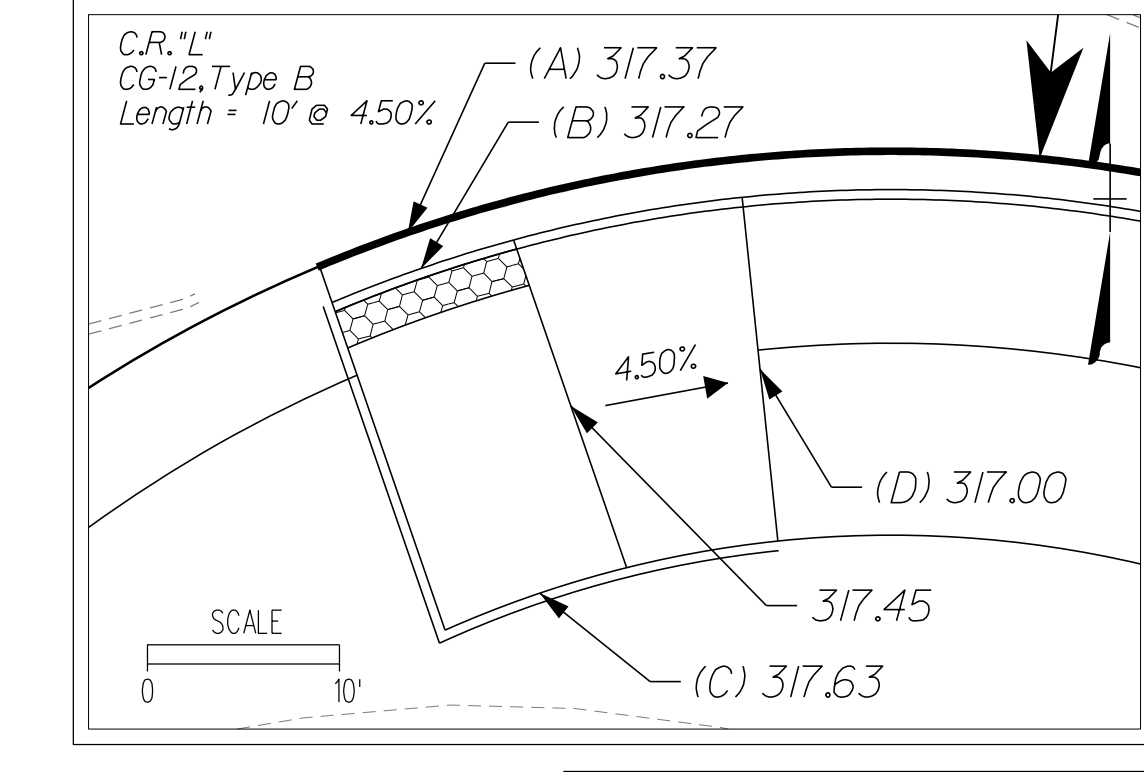
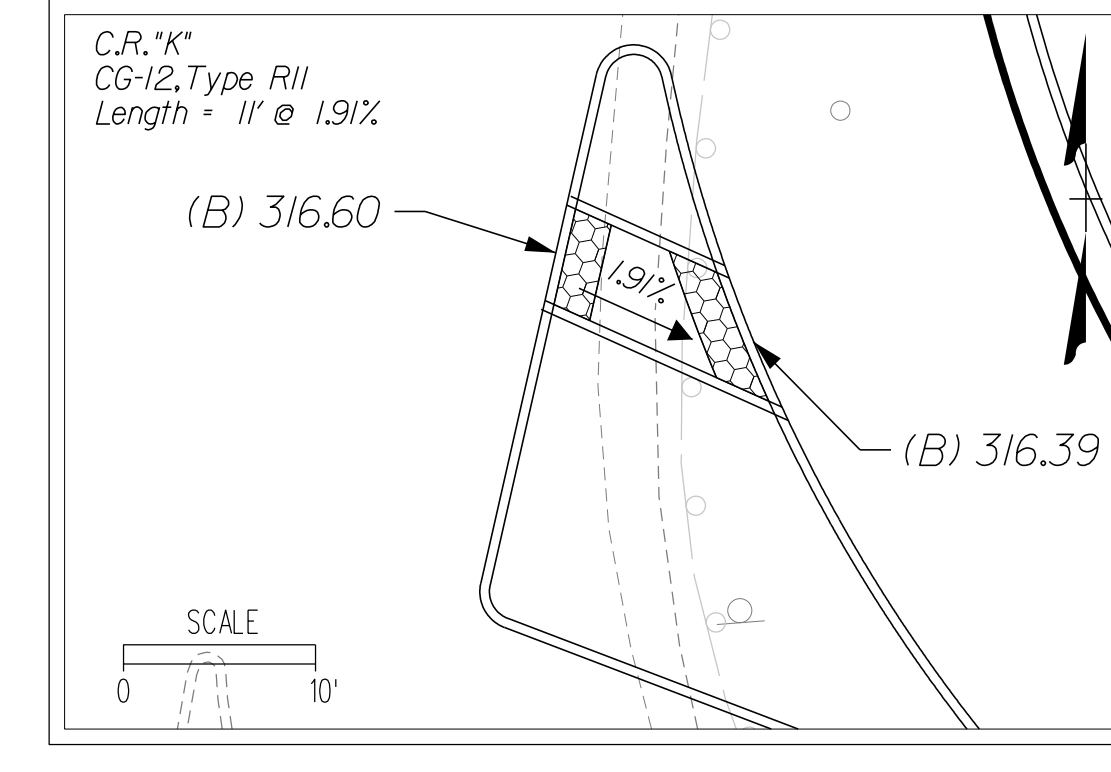
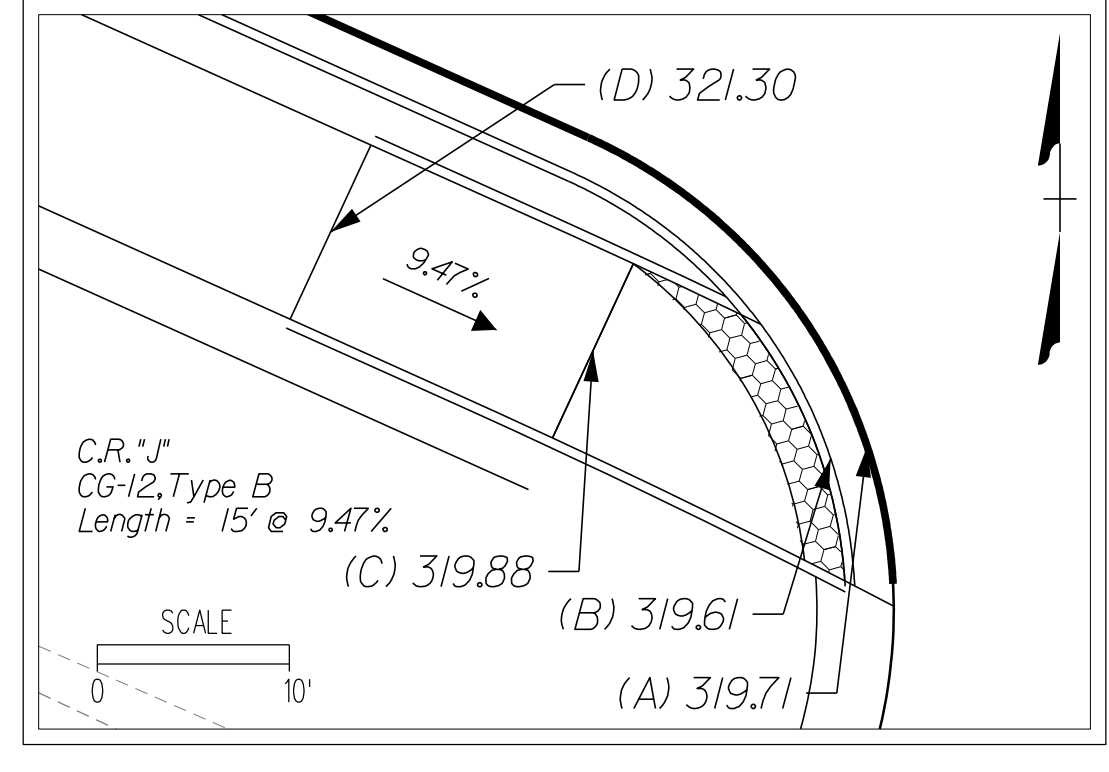
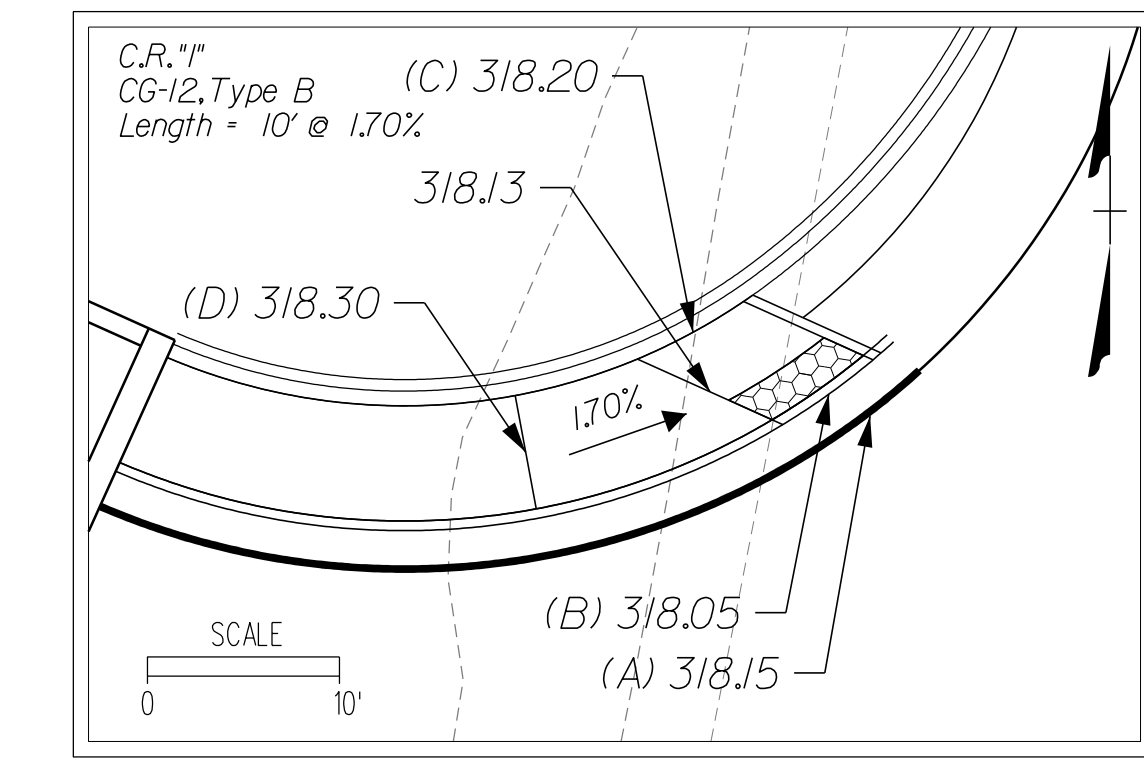
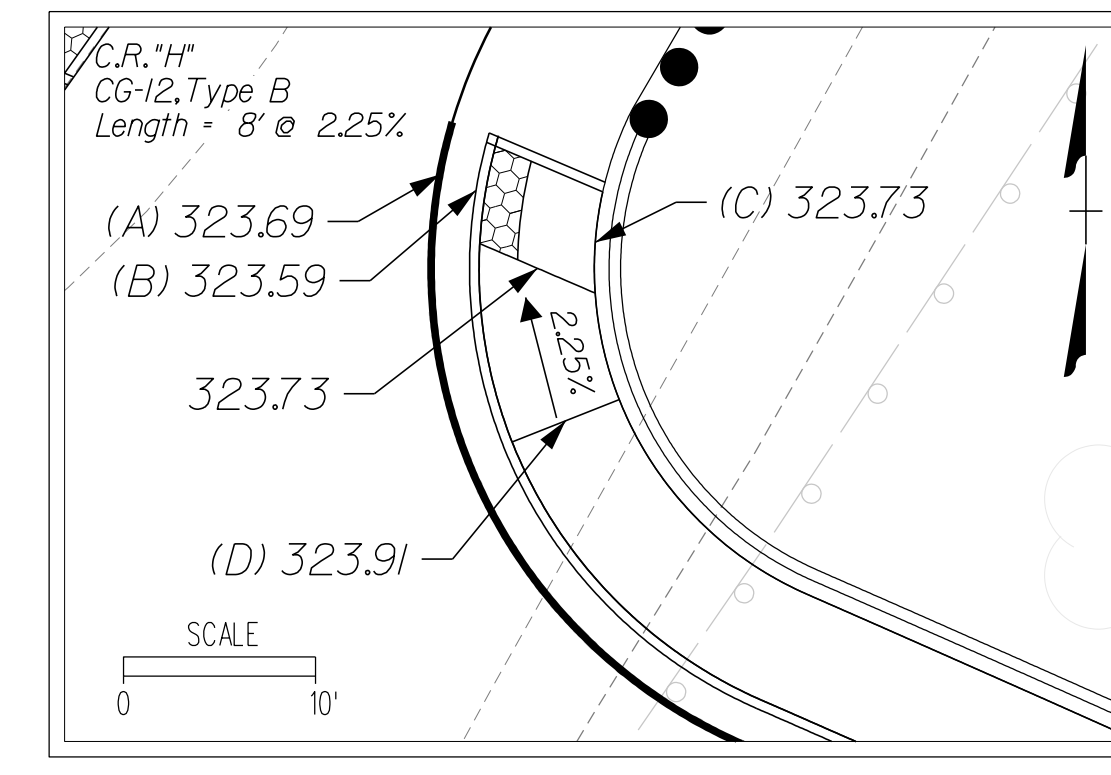
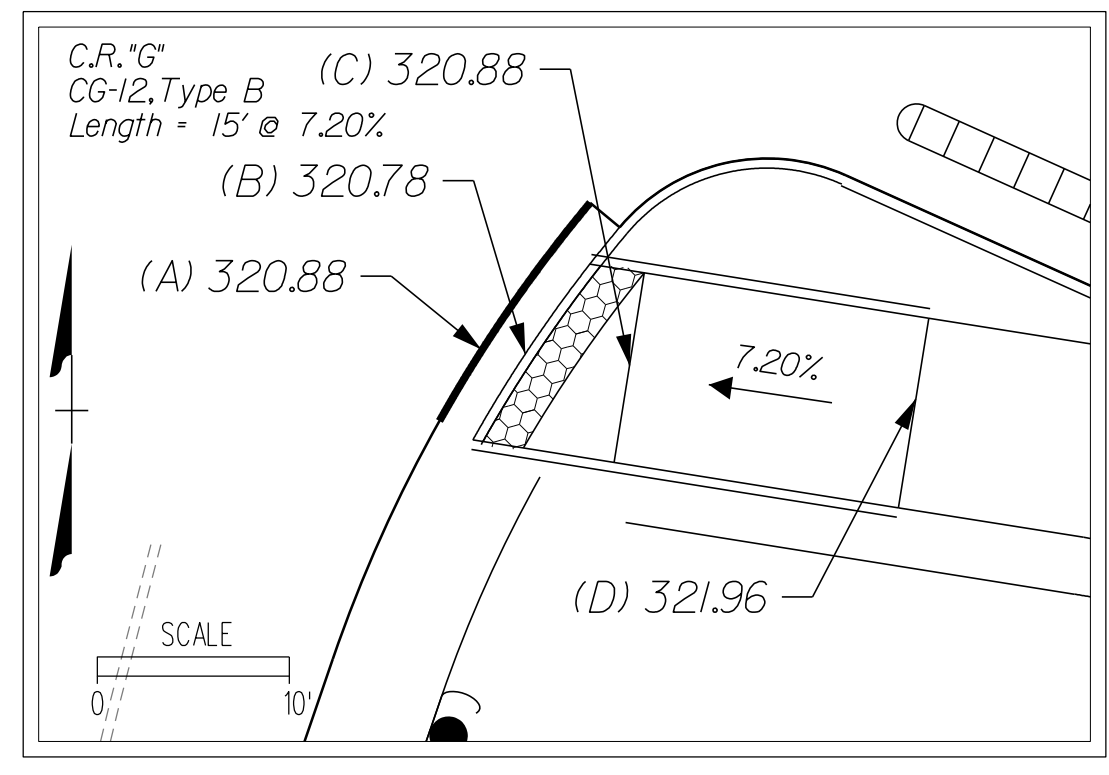
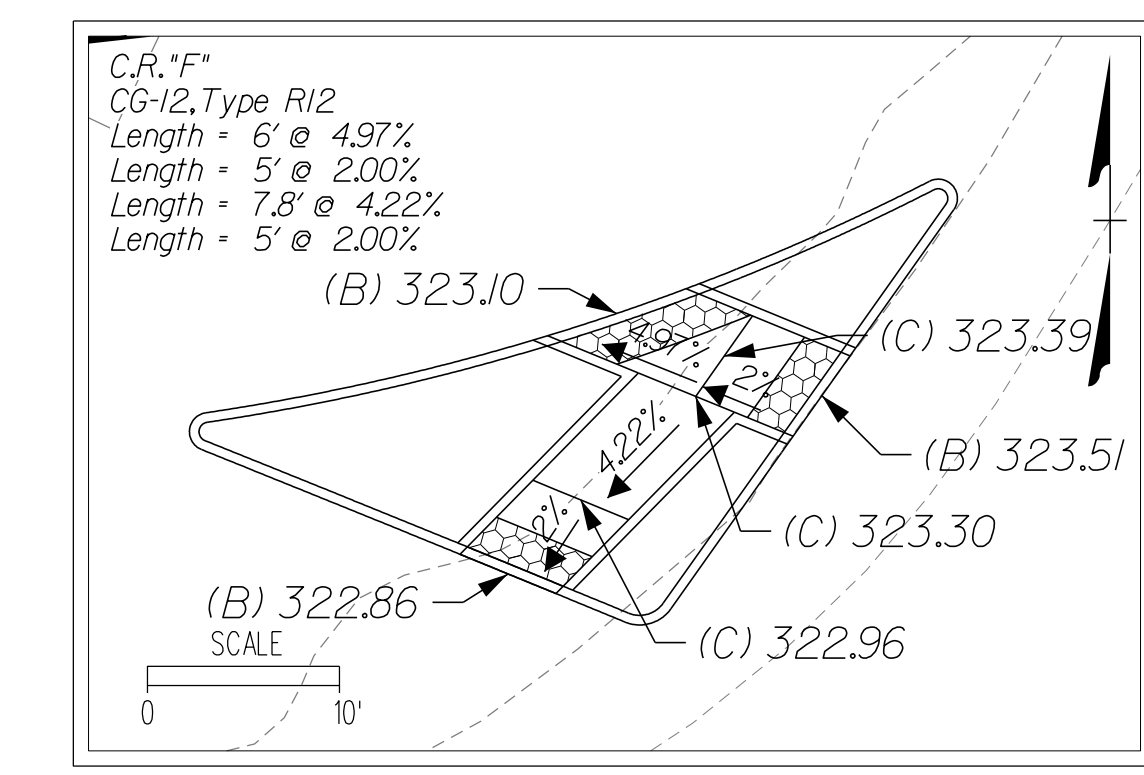
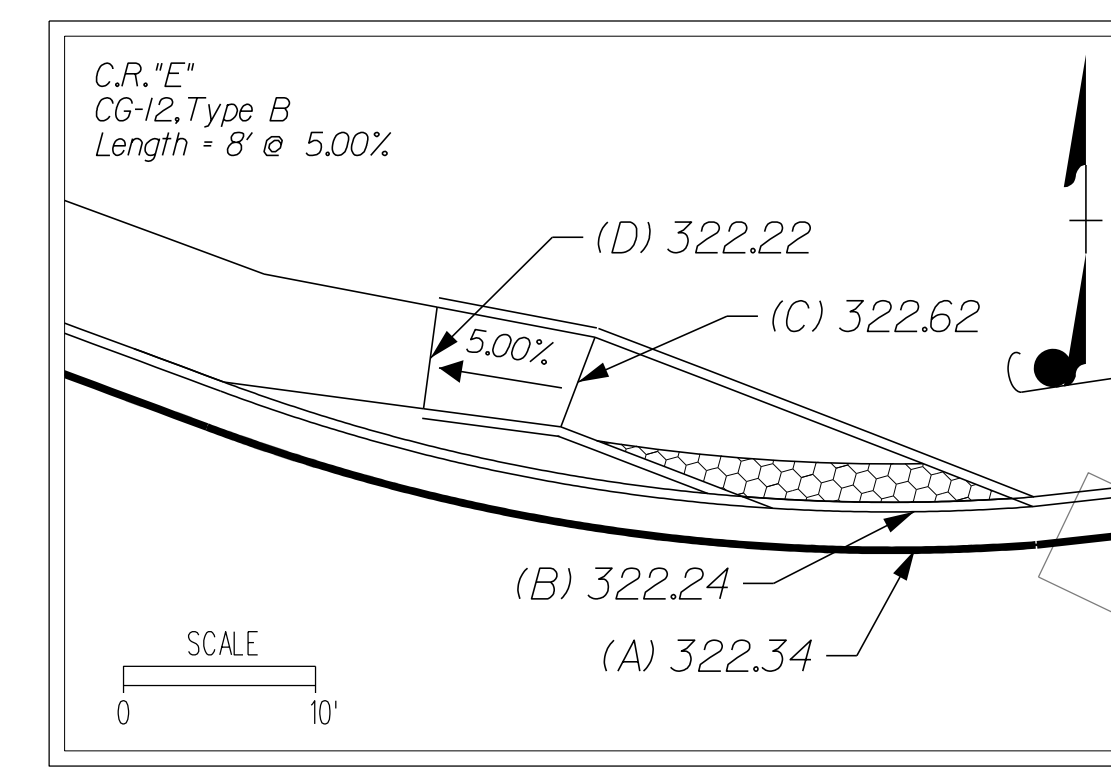
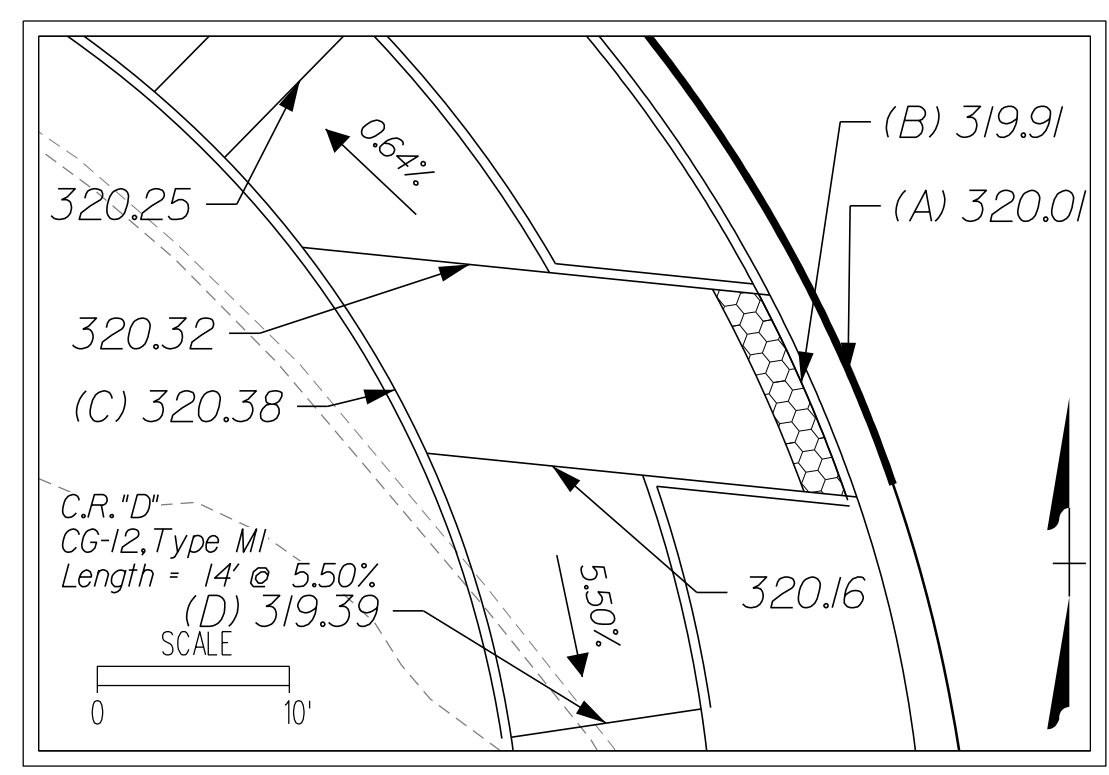
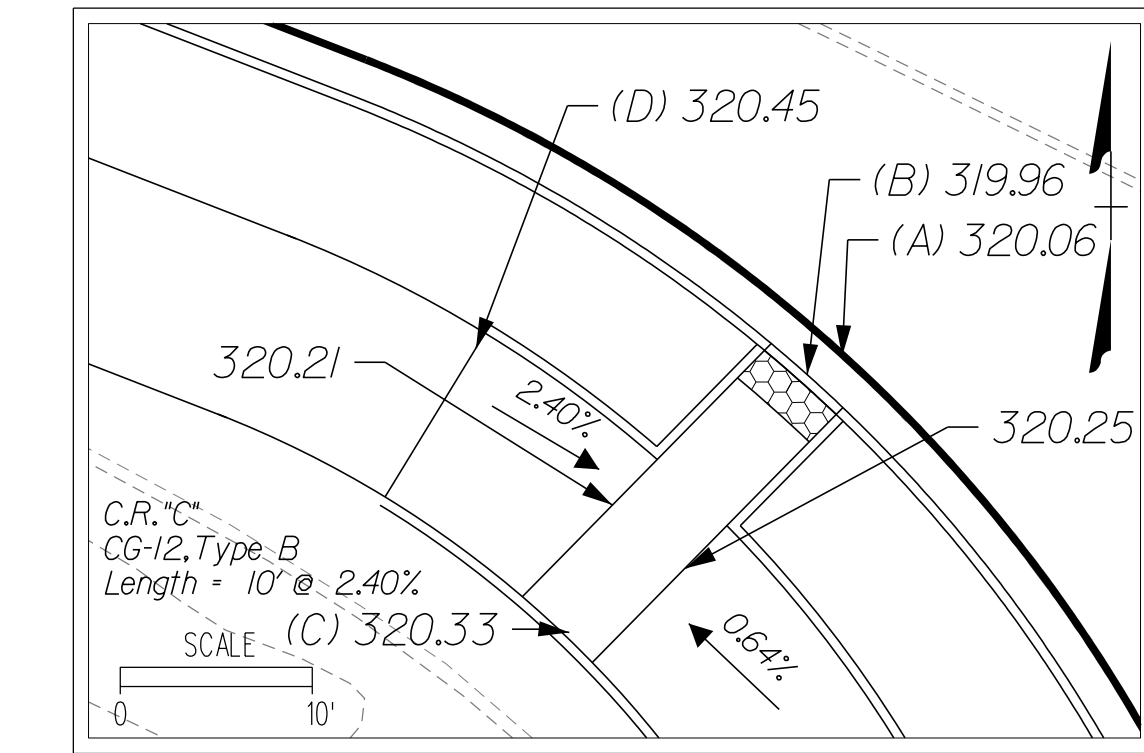
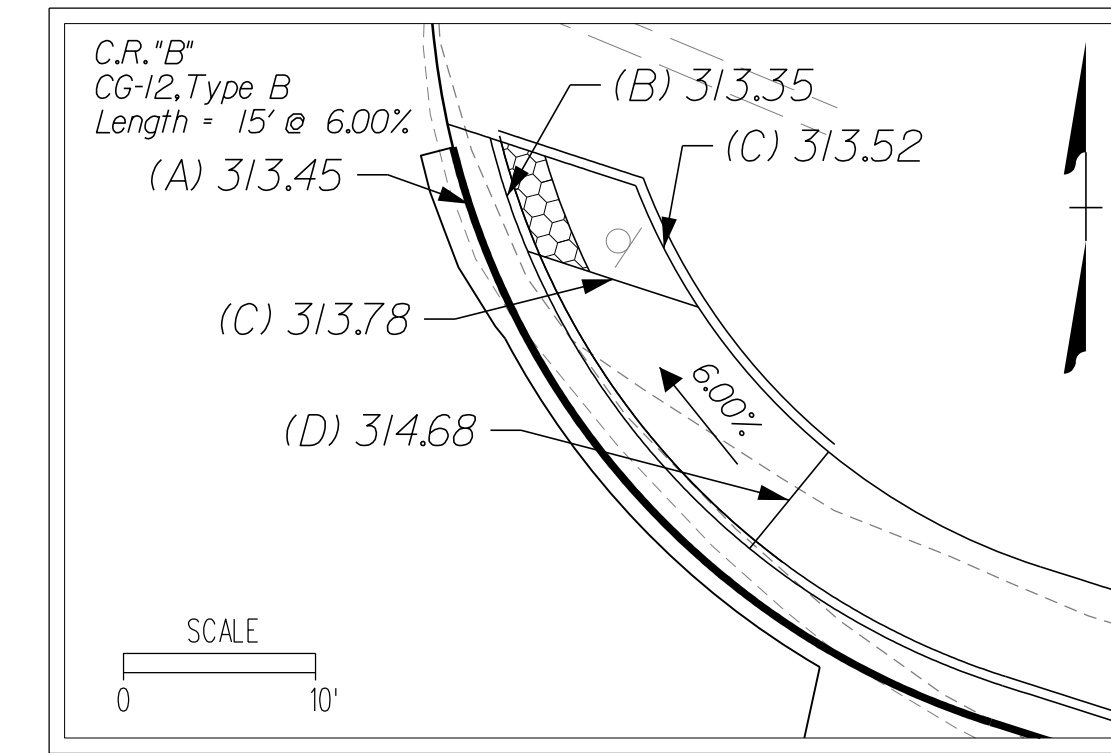
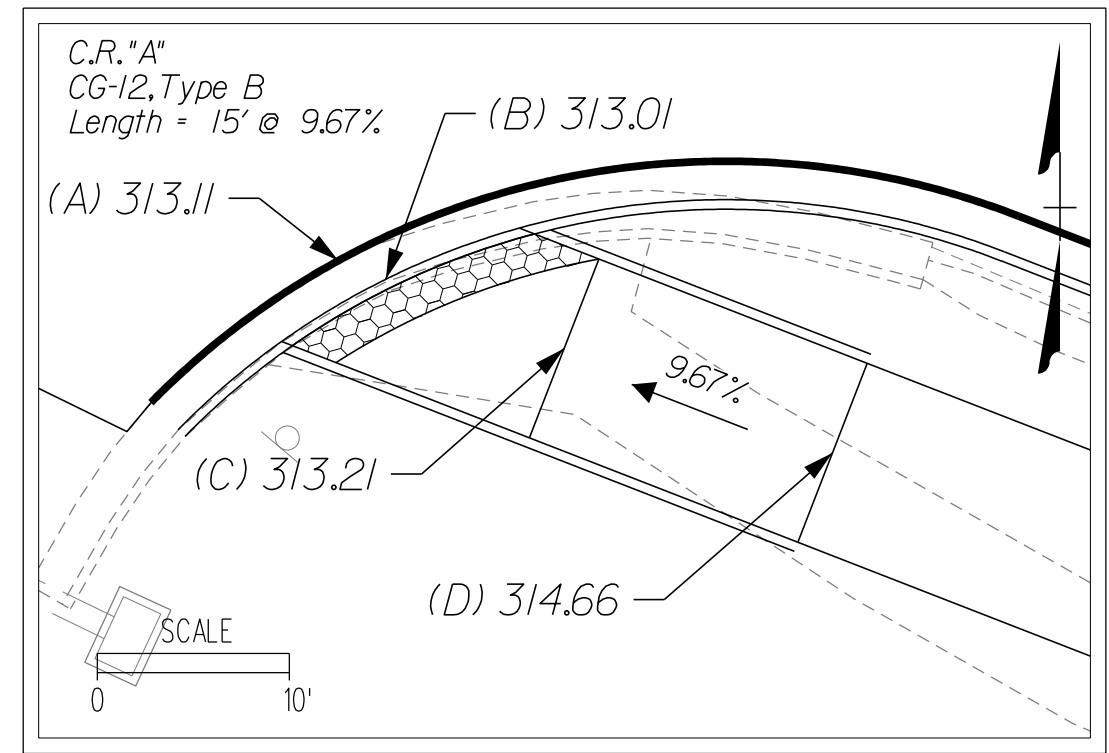
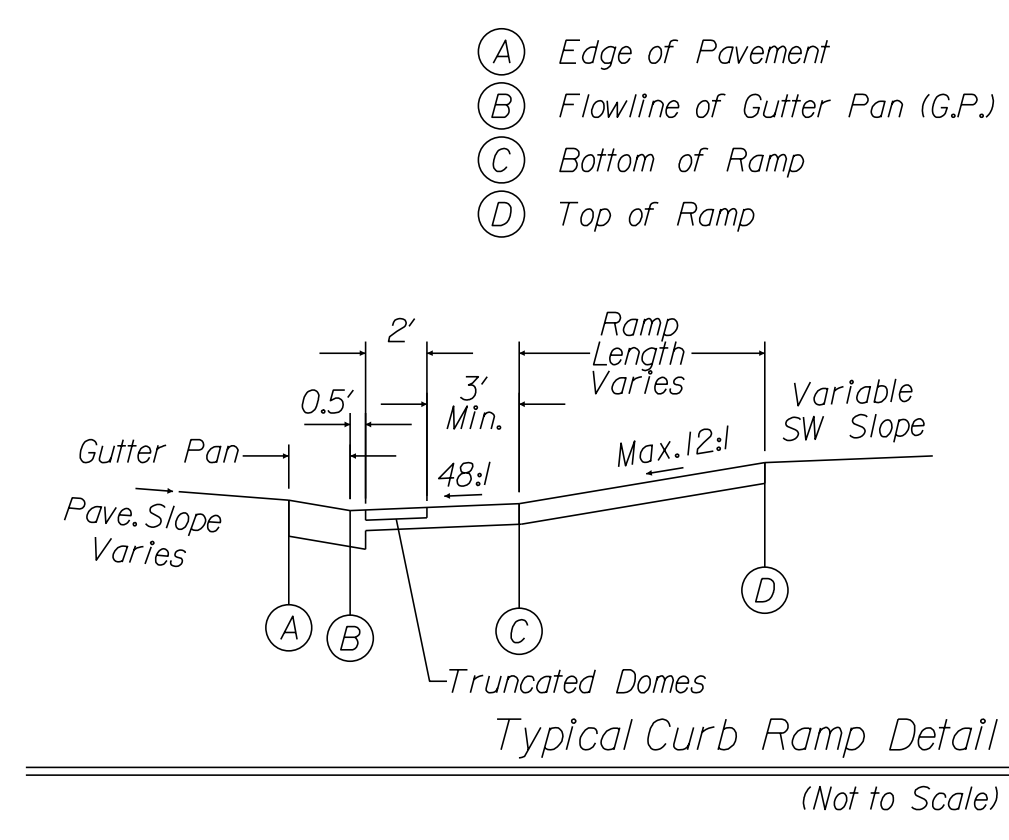
# CG-12 DETAILS

REVISED	STATE	ROUTE	STATE	VDOT PROJECT NO.	SHEET NO.
	VA	495		0495-029-419 C501 RW201	2P AREA 3



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



NOVA DISTRICT

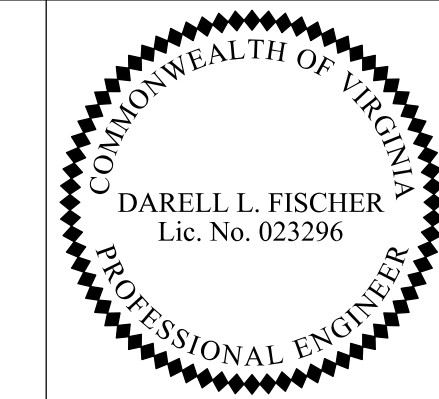
10/16/2022

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  
SUBSURFACE UTILITY BY, DATE Accurmark - Michael Taylor, LS (703) 635-3060, 12/2021

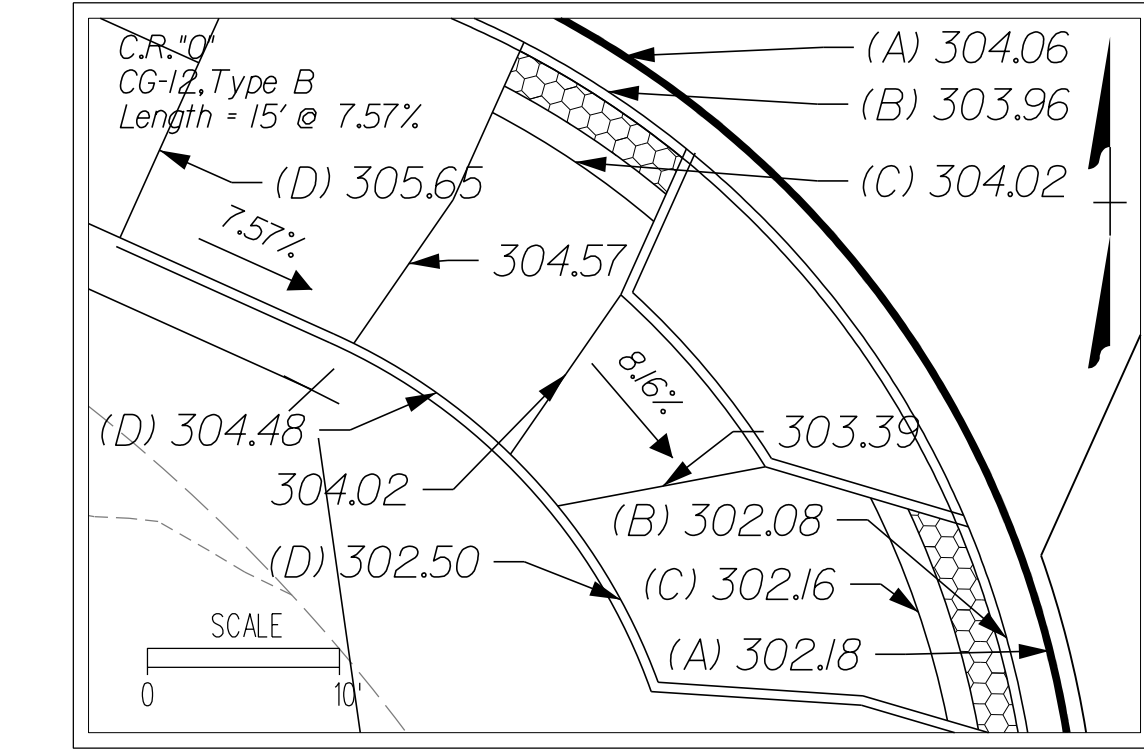
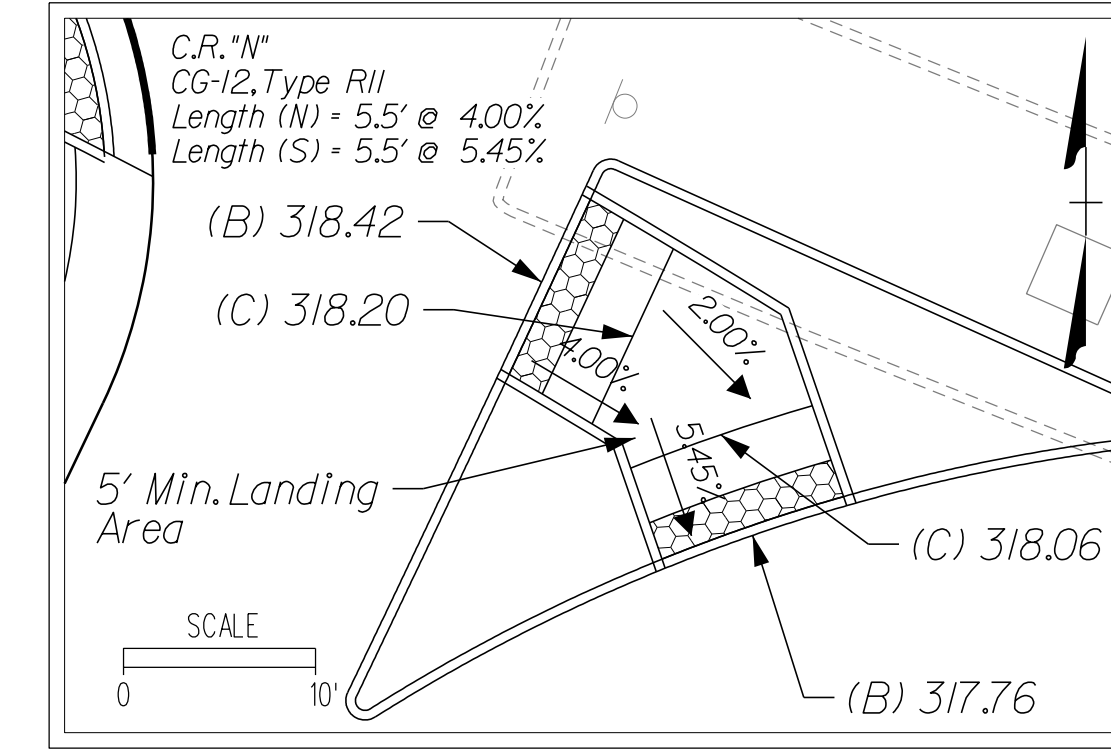
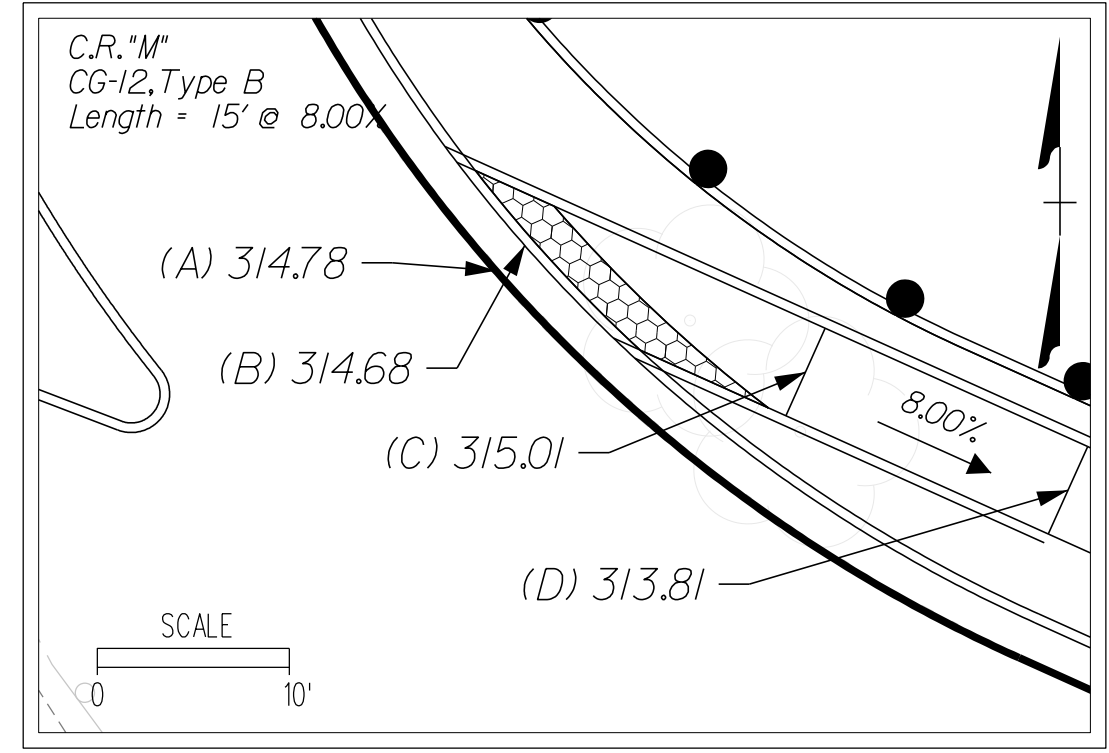
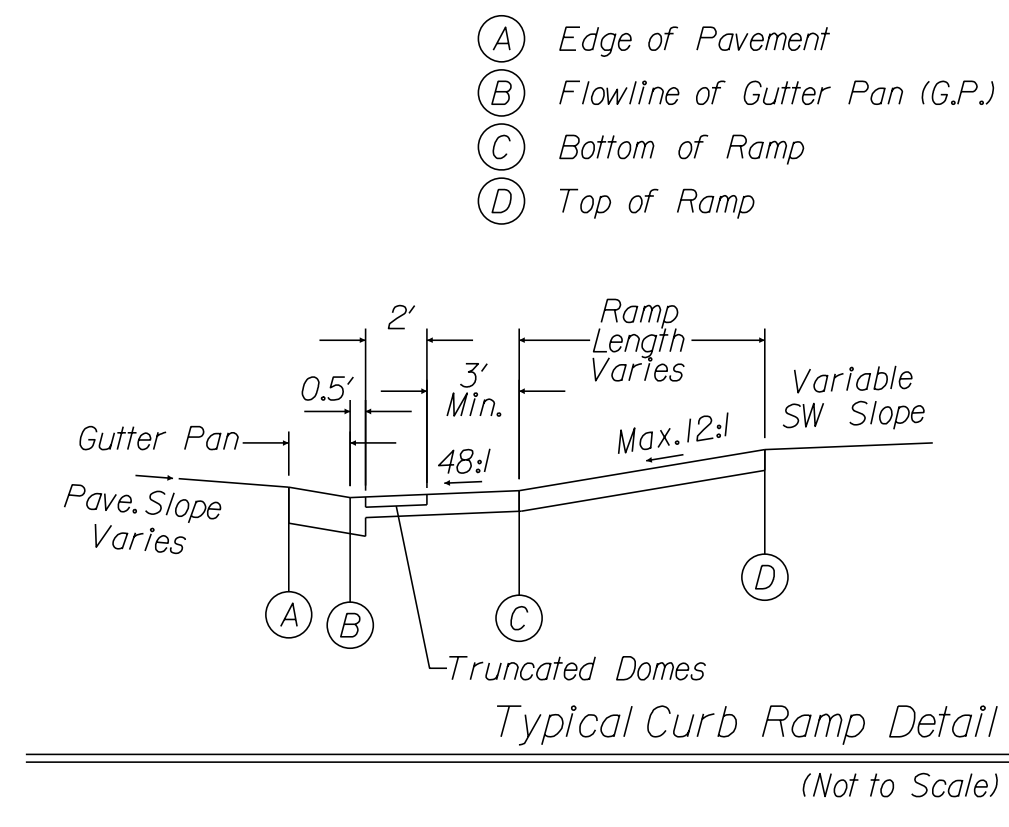
# CG-12 DETAILS



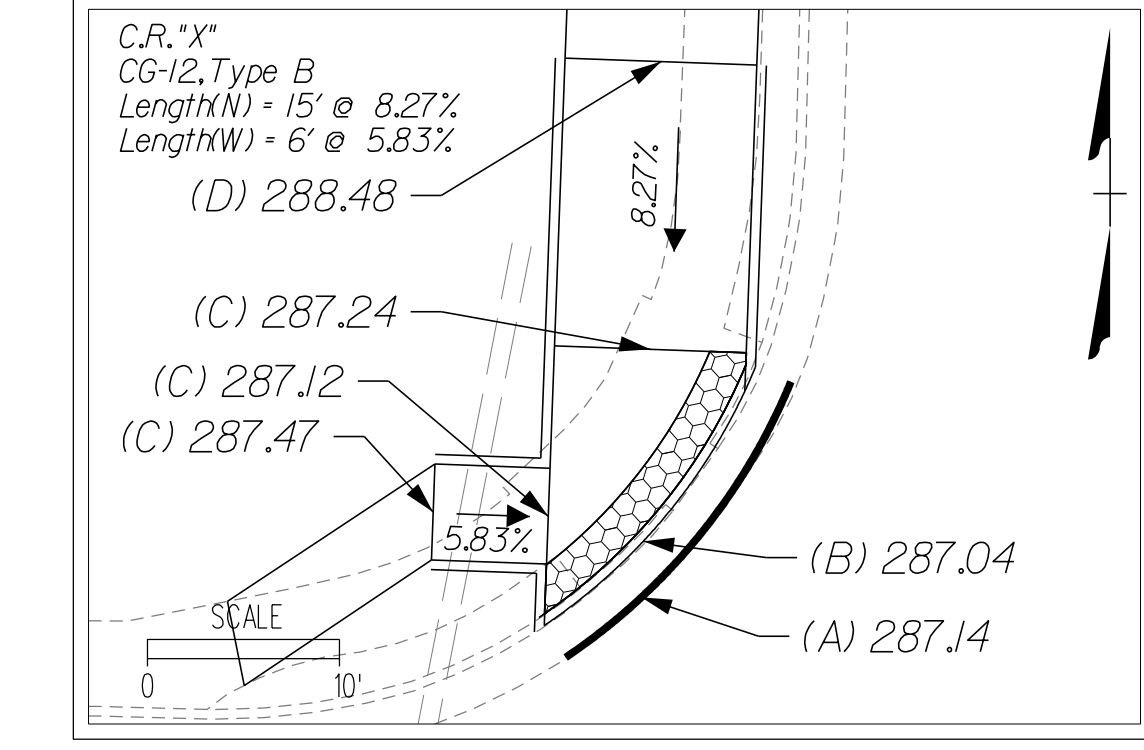
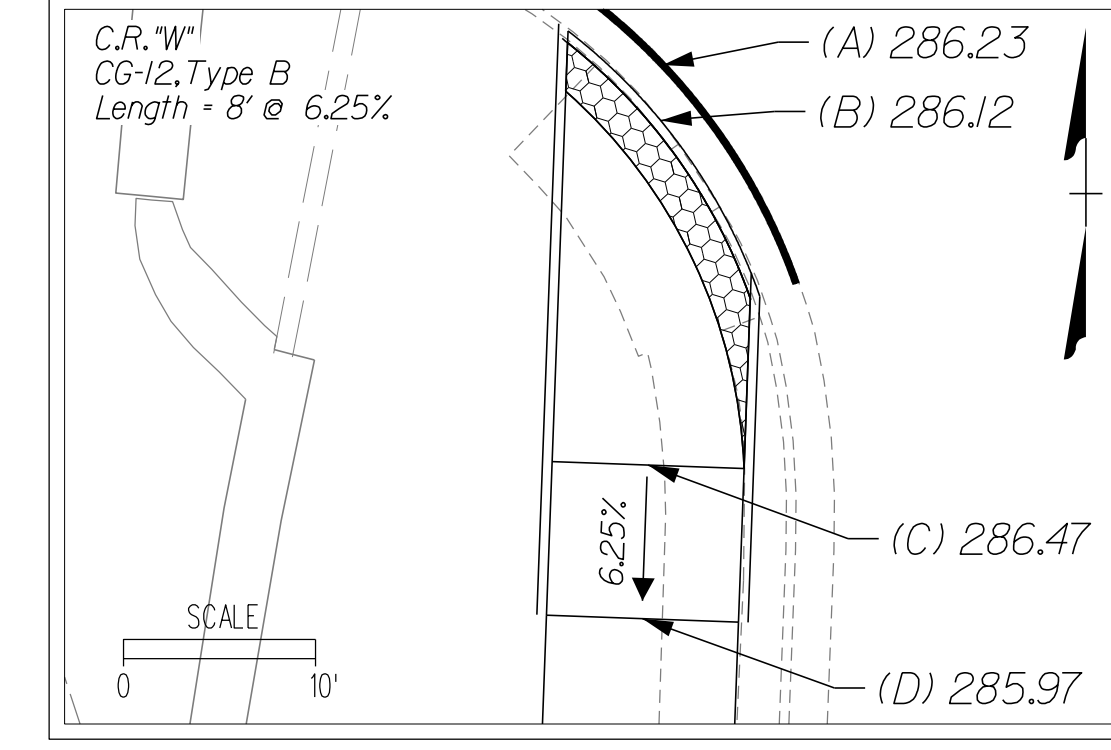
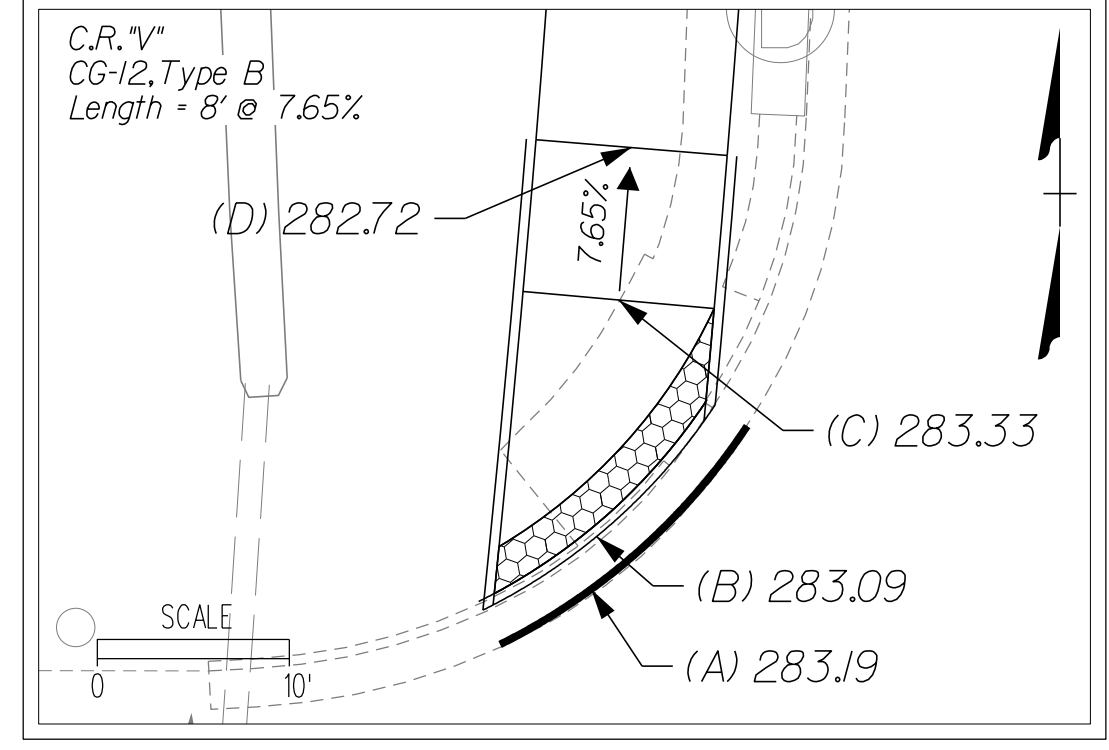
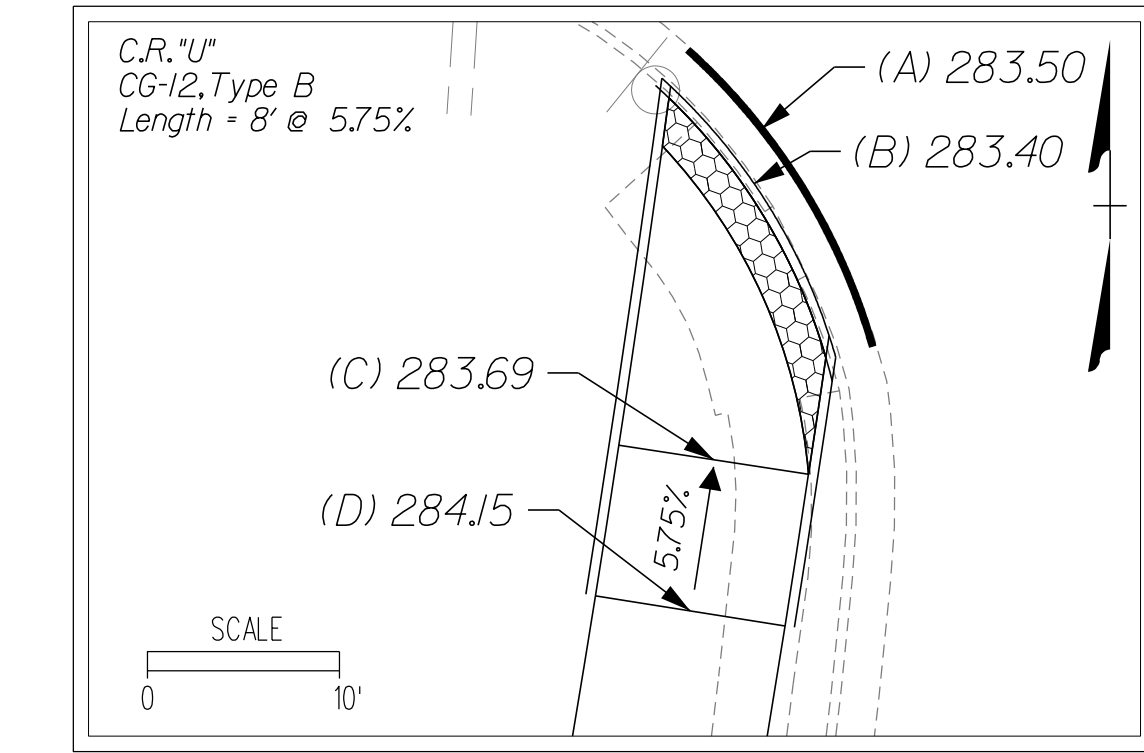
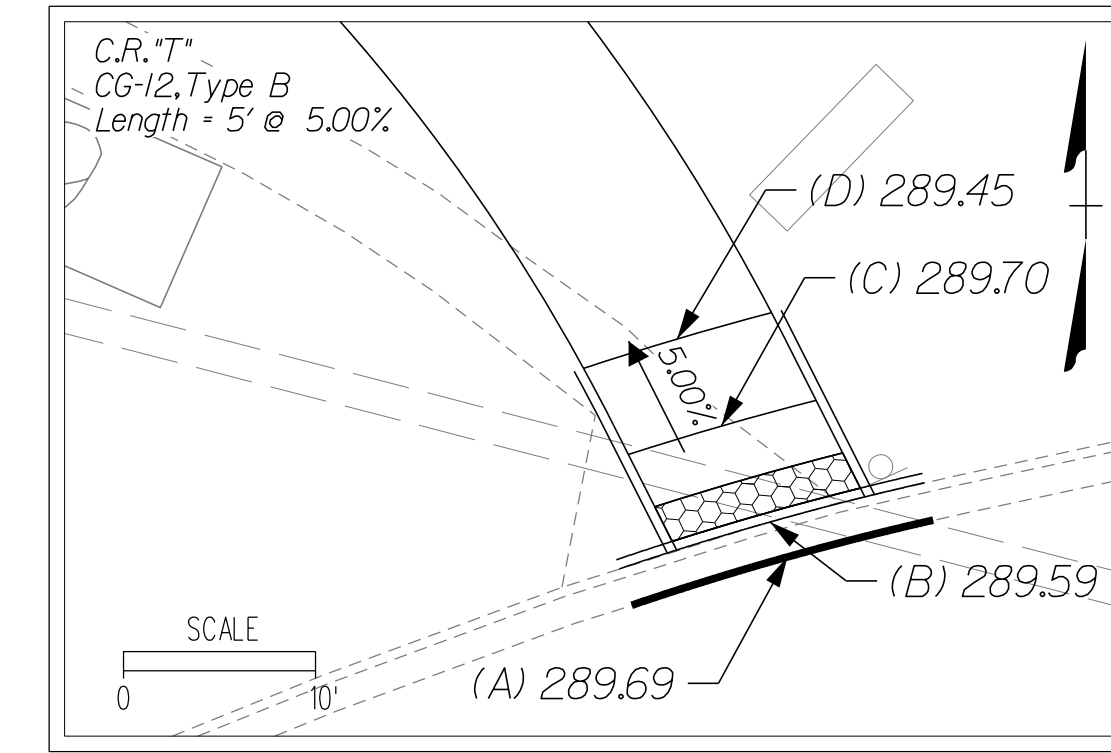
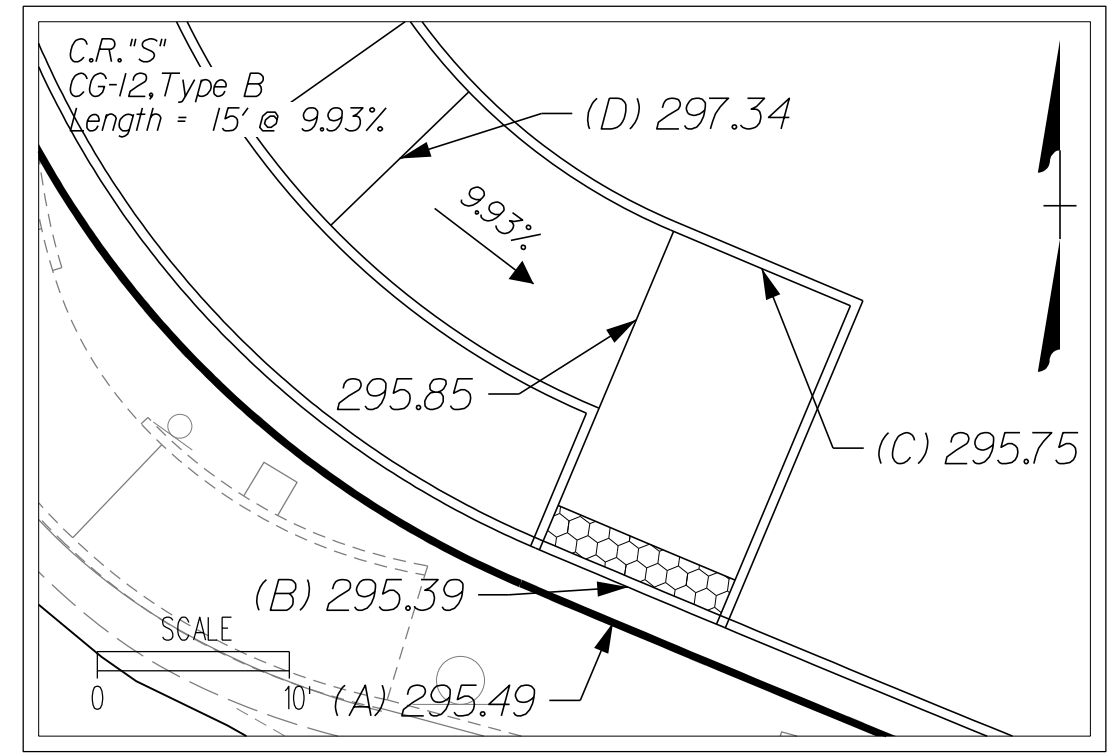
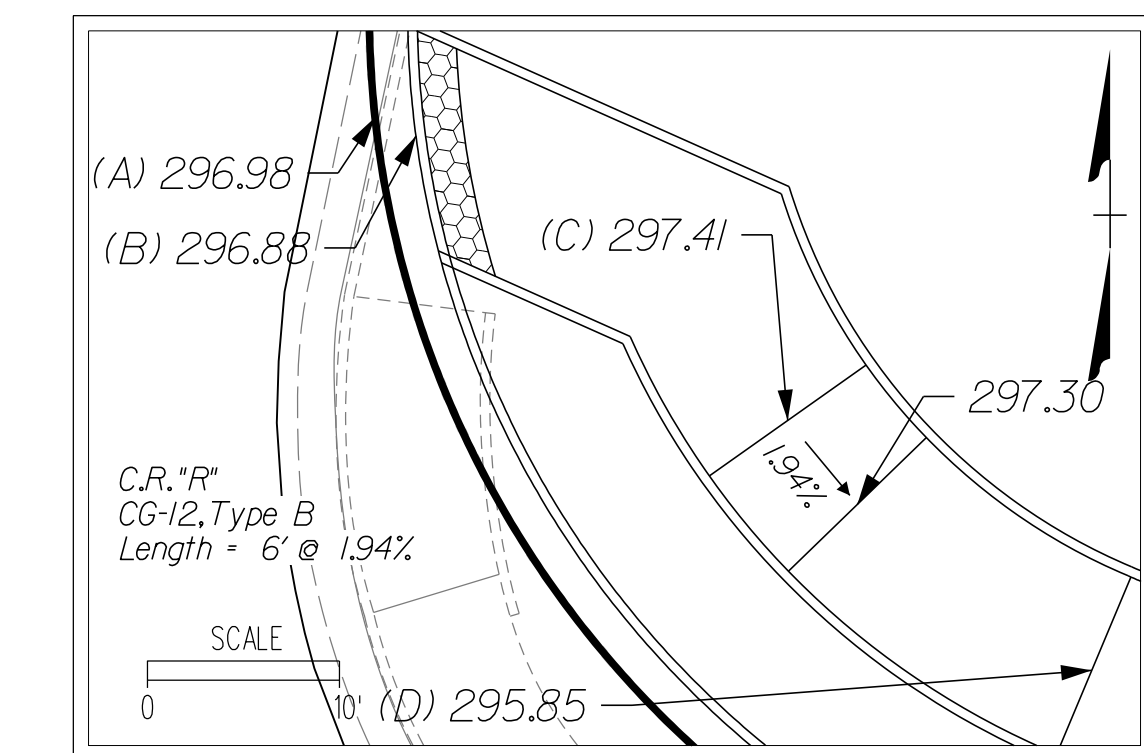
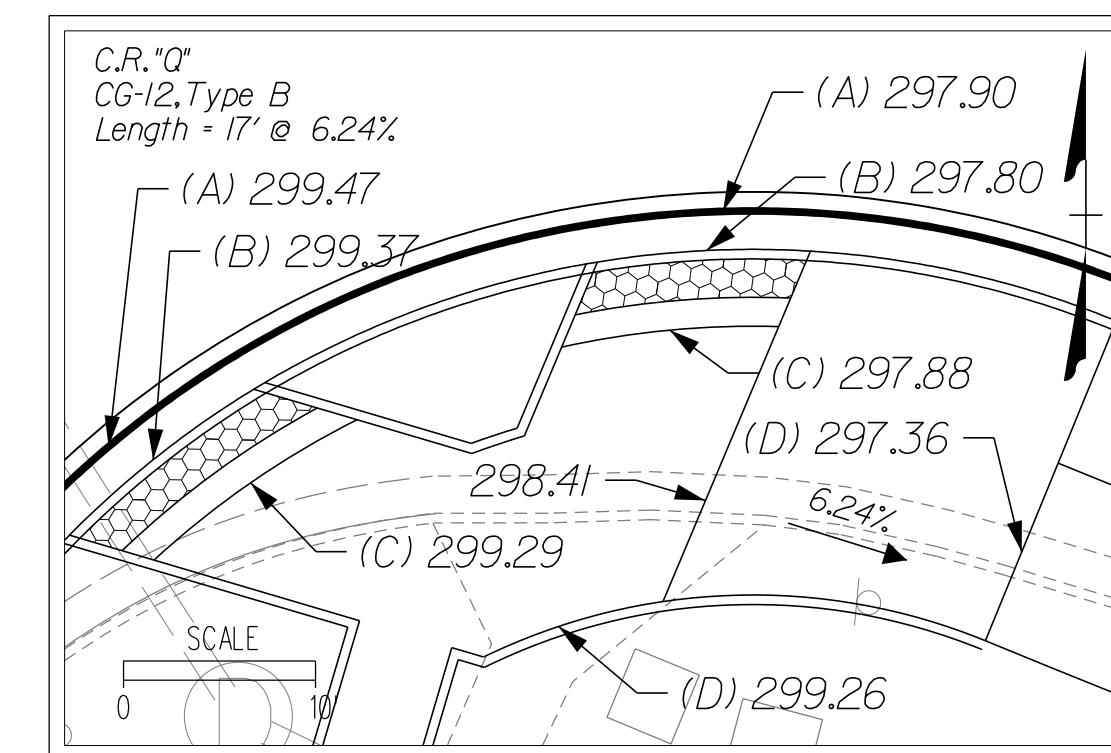
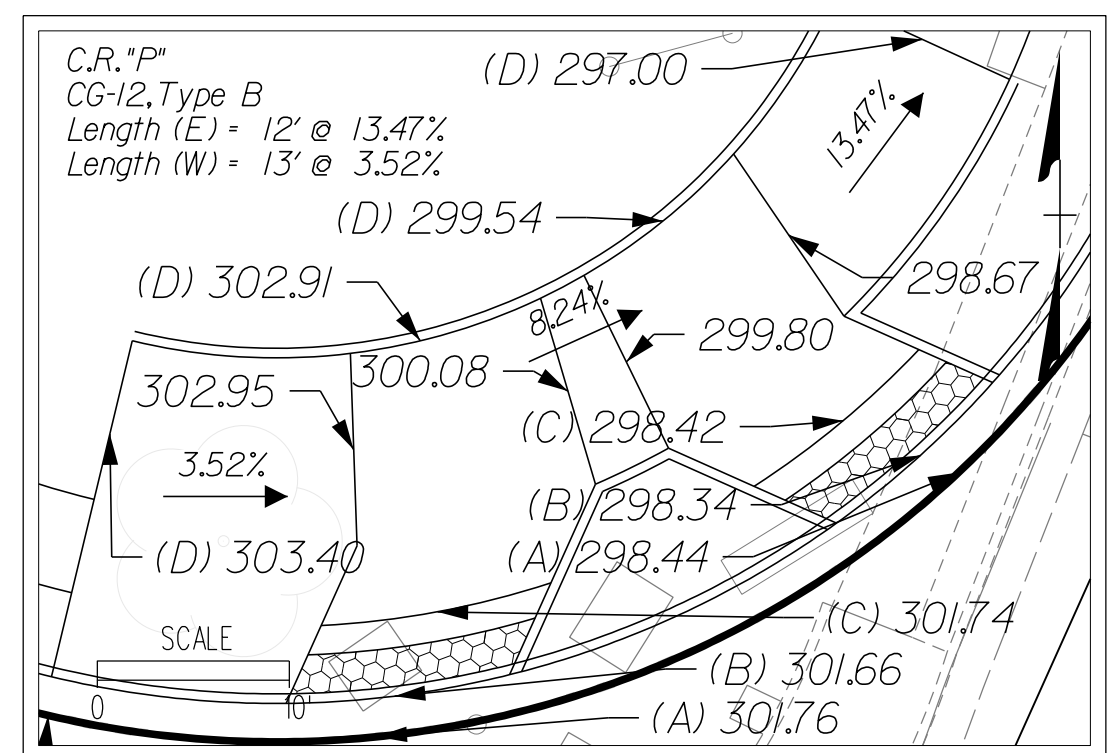
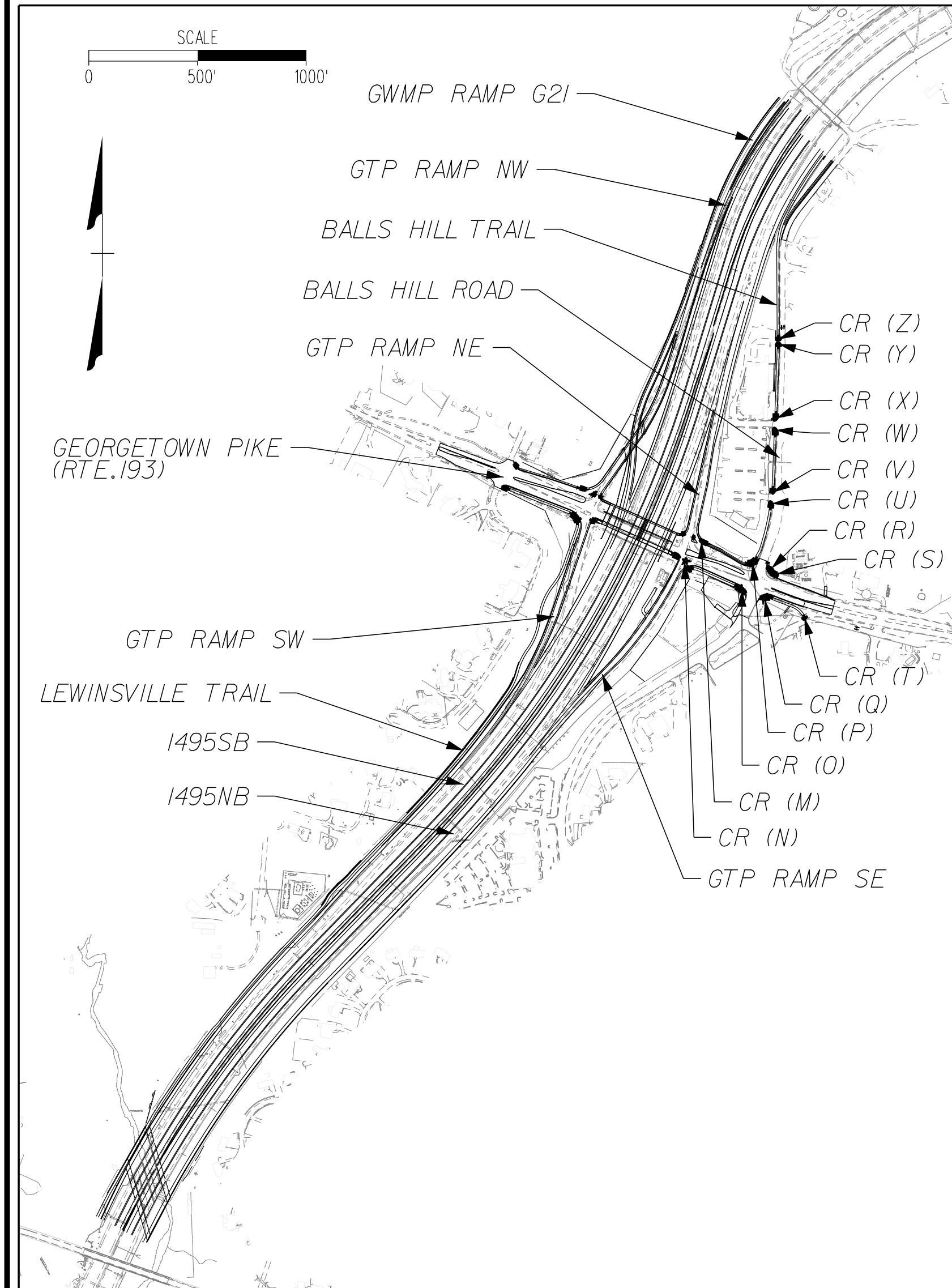
REVISED	STATE	ROUTE	STATE	VDOT PROJECT NO.	SHEET NO.
	VA	495		0495-029-419 C501 RW201	2P(1) AREA 3

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)



## PLAN LOCATION OF CG-12 RAMPS



APPROVED FOR CONSTRUCTION

NOVA DISTRICT



PROJECT MANAGER VDOT - *Ritpal Shah, P.E. (703) 259-2362*  
 SURVEYED BY, DATE RDA - *Nicholas Kaugaulis, LS (703) 334-0837, 12/2021*  
 DESIGN BY RDA - *Darell 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*

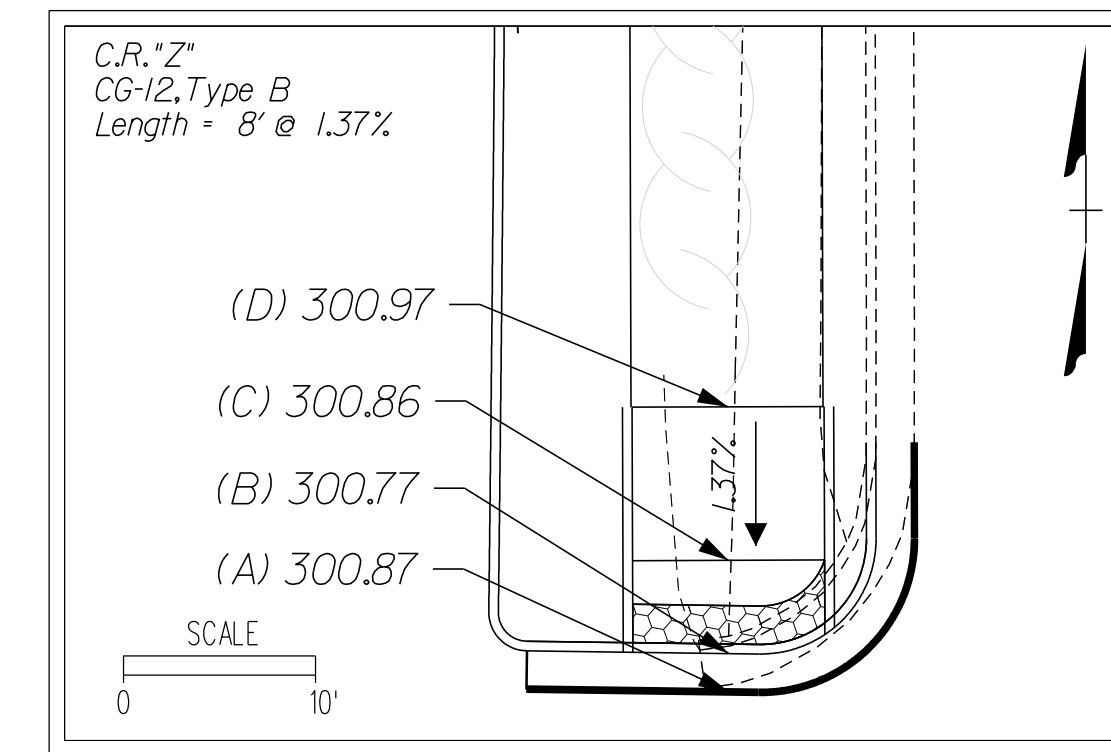
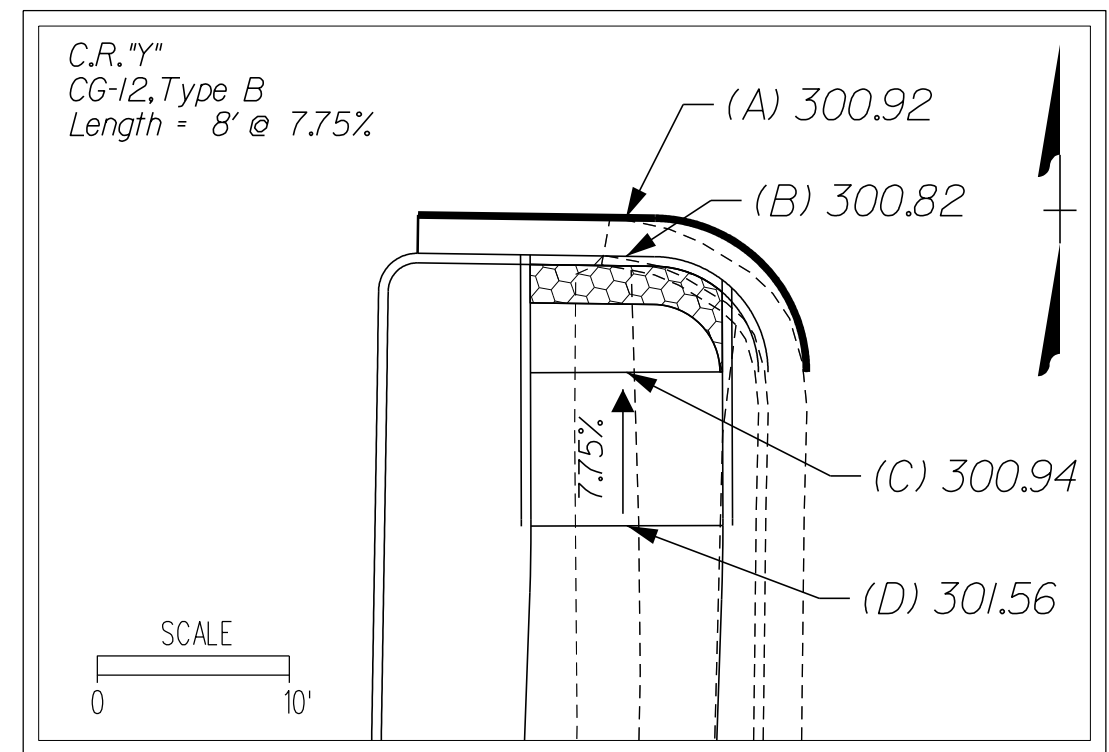
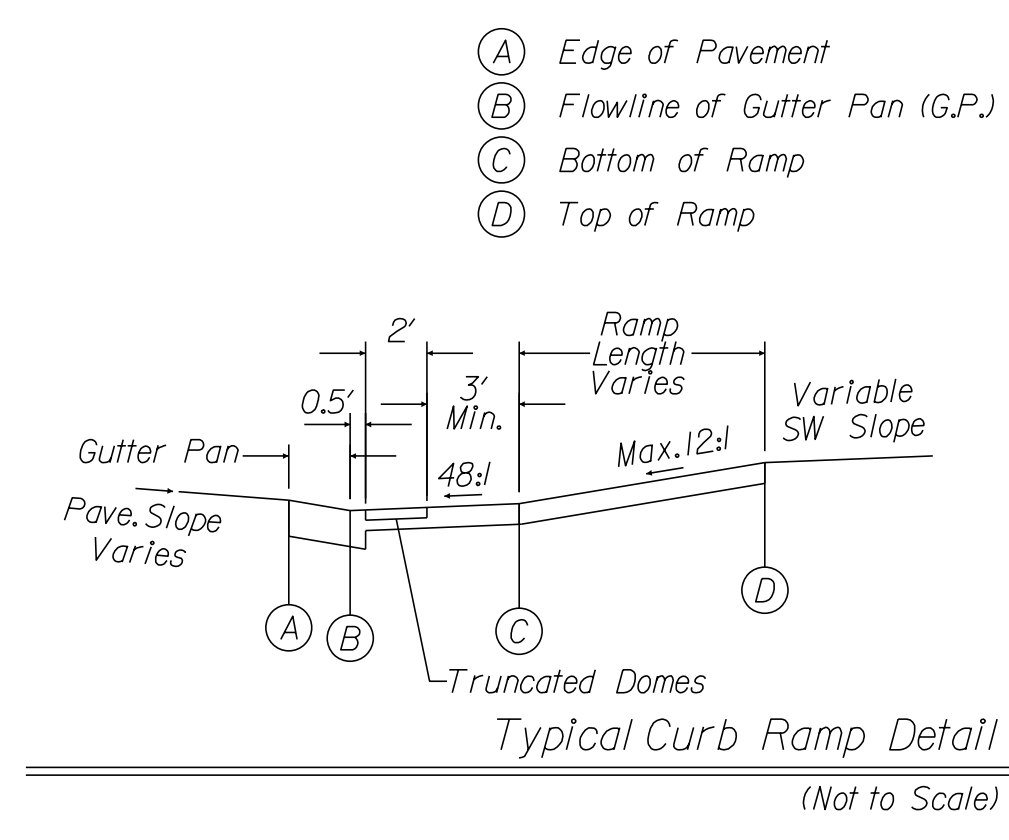
# CG-12 DETAILS

COMMONWEALTH OF VIRGINIA  
 PROFESSIONAL ENGINEER  
 DARELL L. FISCHER  
 Lic. No. 023296

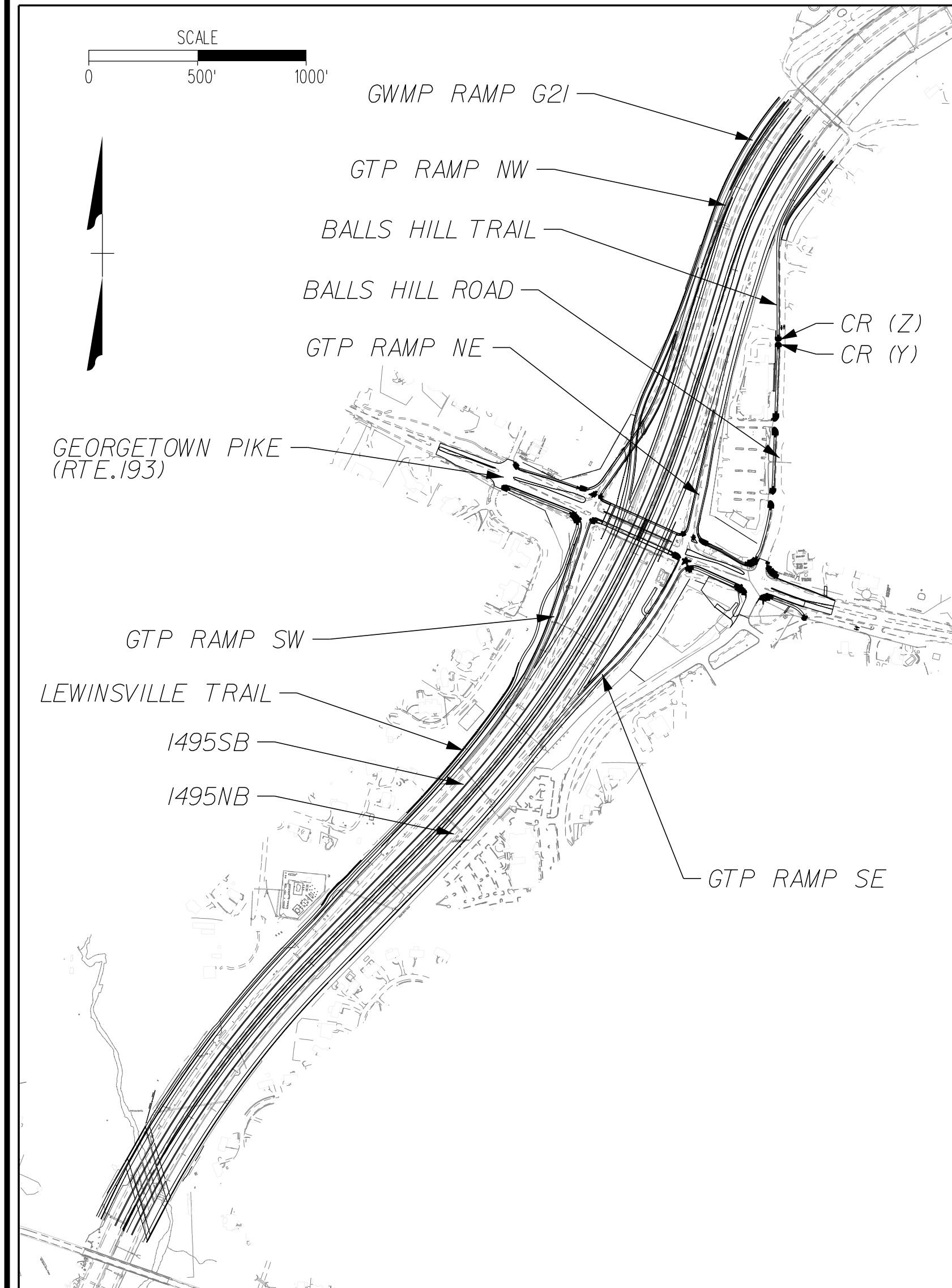
Rinker Design Assoc., P.C.  
 Manassas, Virginia  
 (ROADWAY ENGINEER)

REVISED	STATE	ROUTE	STATE	VDOT PROJECT NO.	SHEET NO.
	VA.	495		0495-029-419 C501 RW201	2P(2) AREA 3

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



## PLAN LOCATION OF CG-12 RAMPS



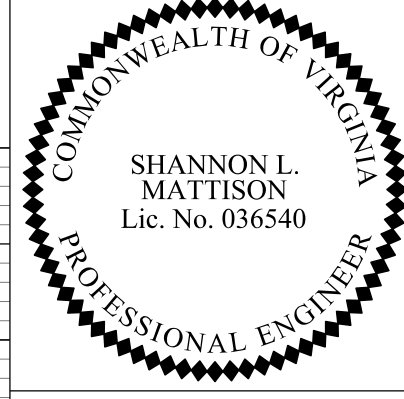
NOVA DISTRICT

VDOT PROJECT NO. 0495-029-419	SHEET NO. 2P(2) AREA 3
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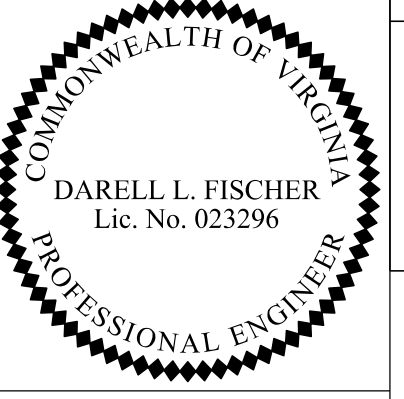
APPROVED FOR CONSTRUCTION



PROJECT MANAGER\_VDOT - Rimal Stab PE, (703) 259-2362  
 SURVEYED BY, DATE - BDA - Nicholas Kougoulis, LS, (703) 334-0837, 12/2021  
 DESIGN BY, BDA - Darell 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

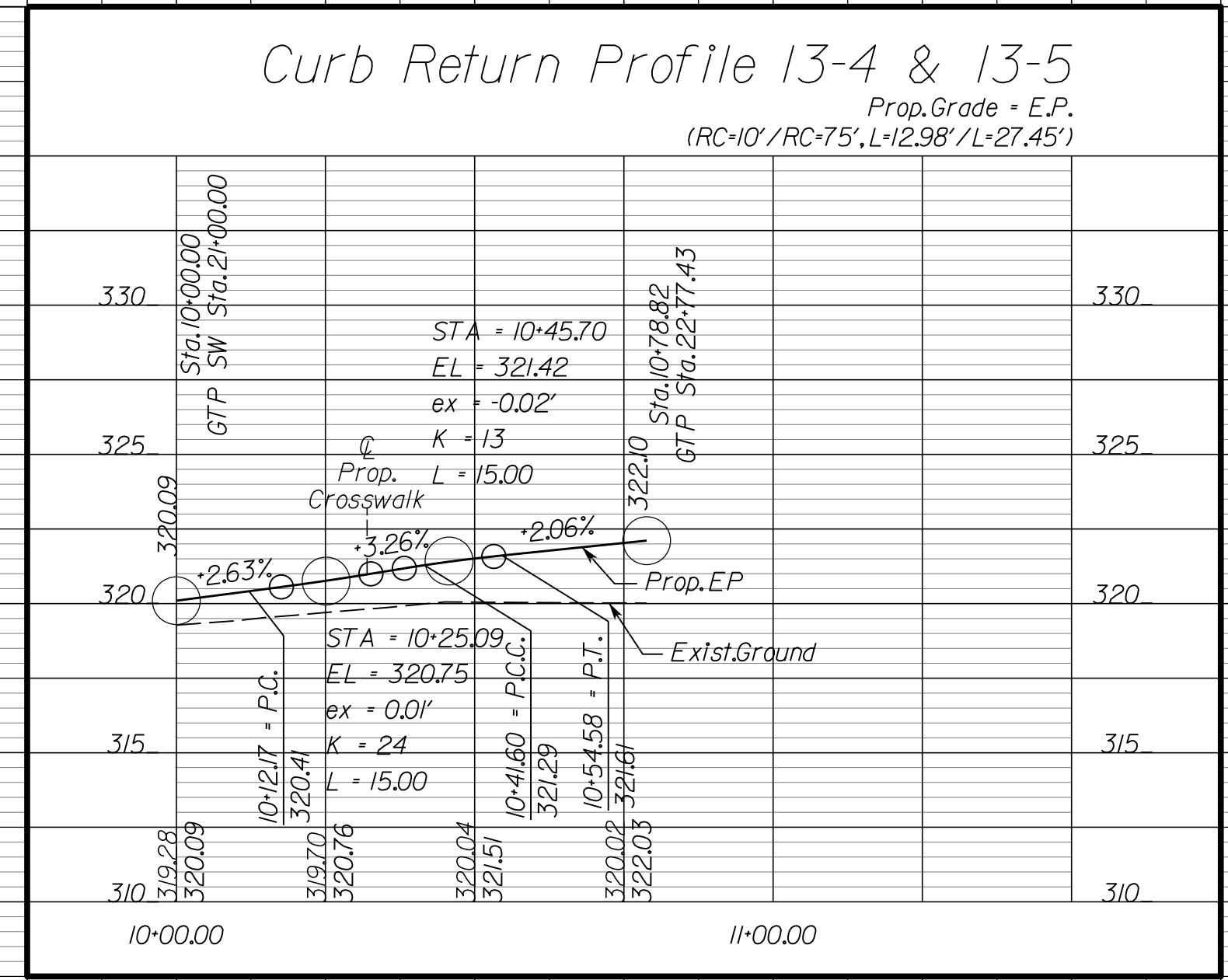
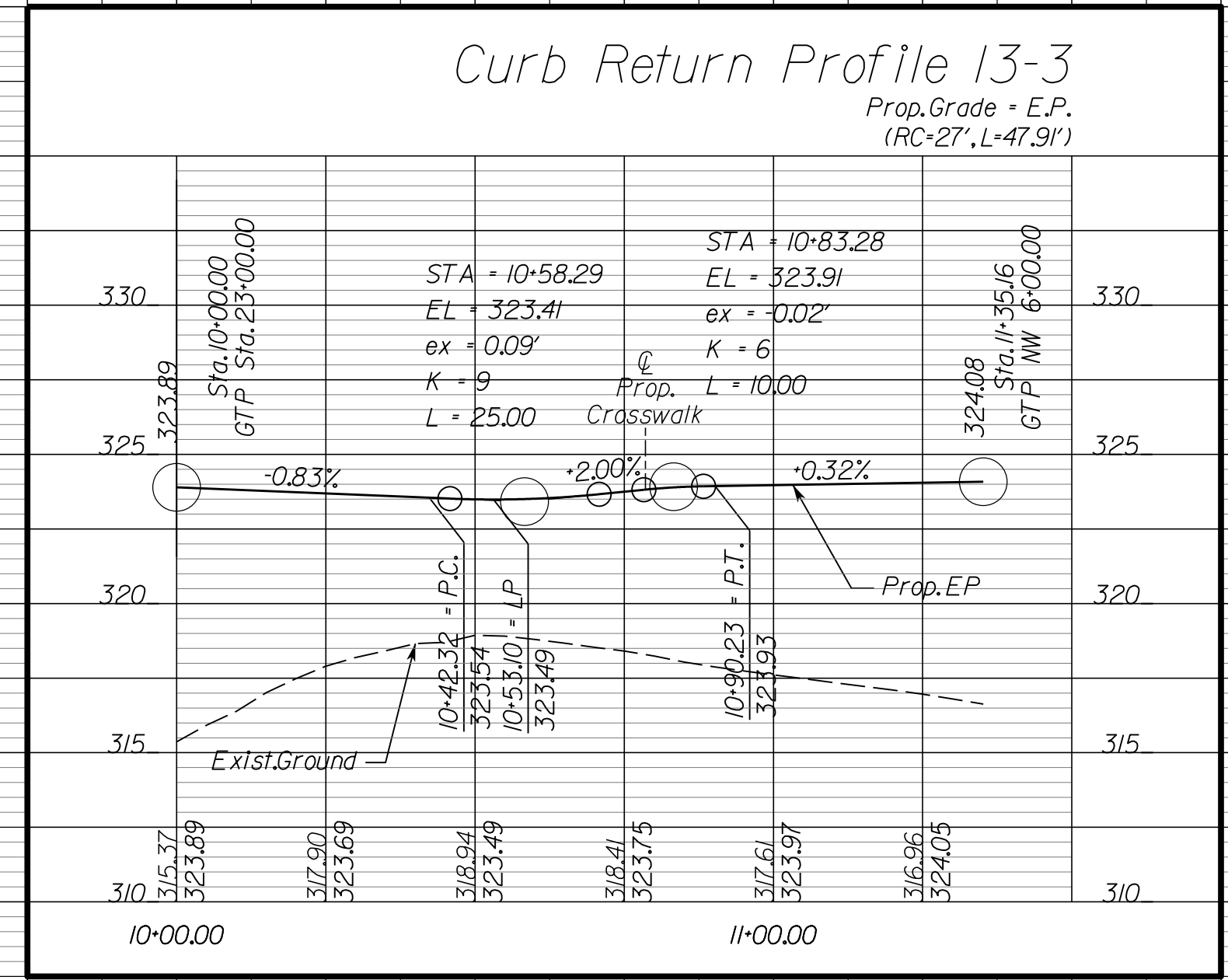
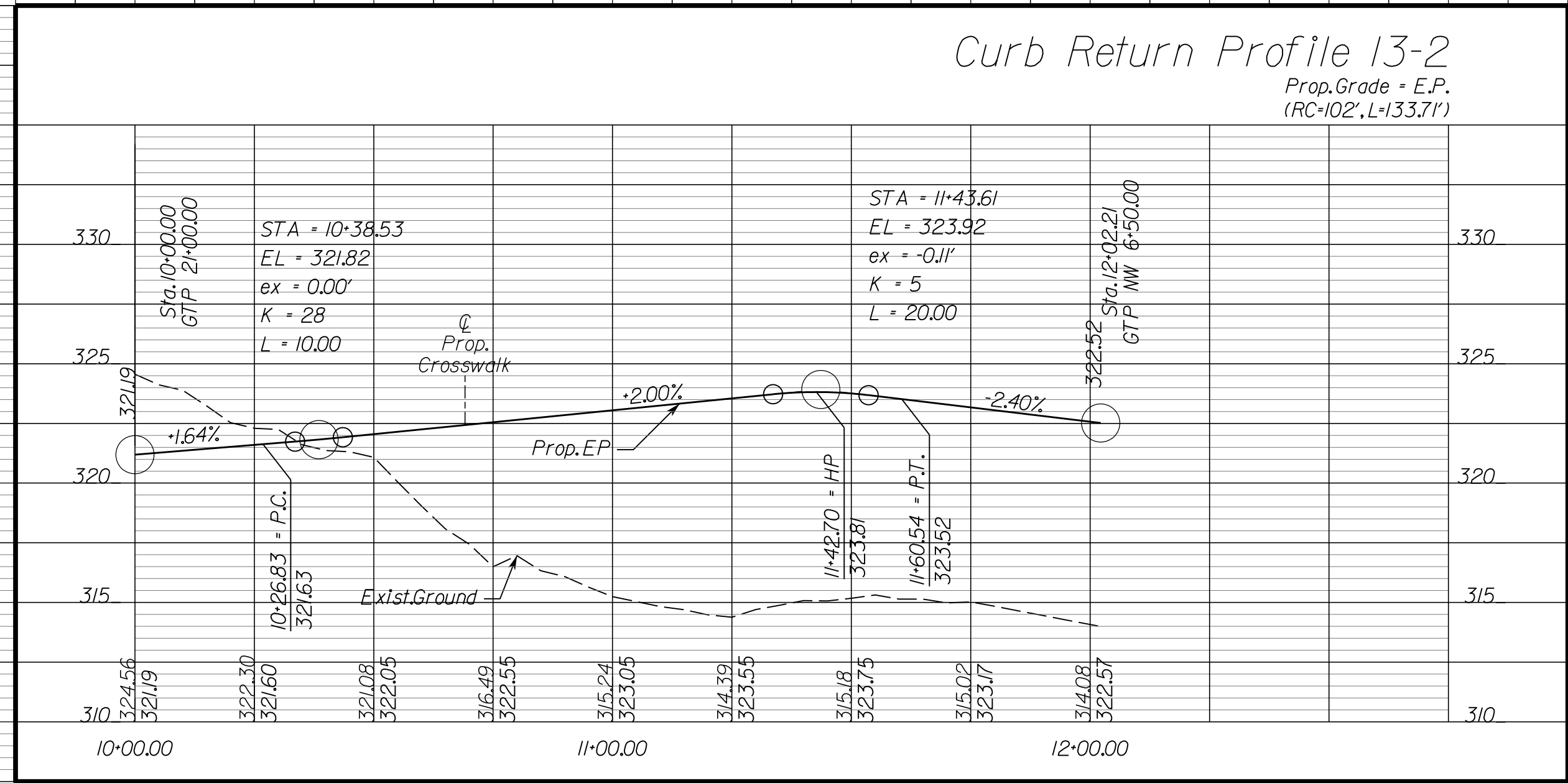
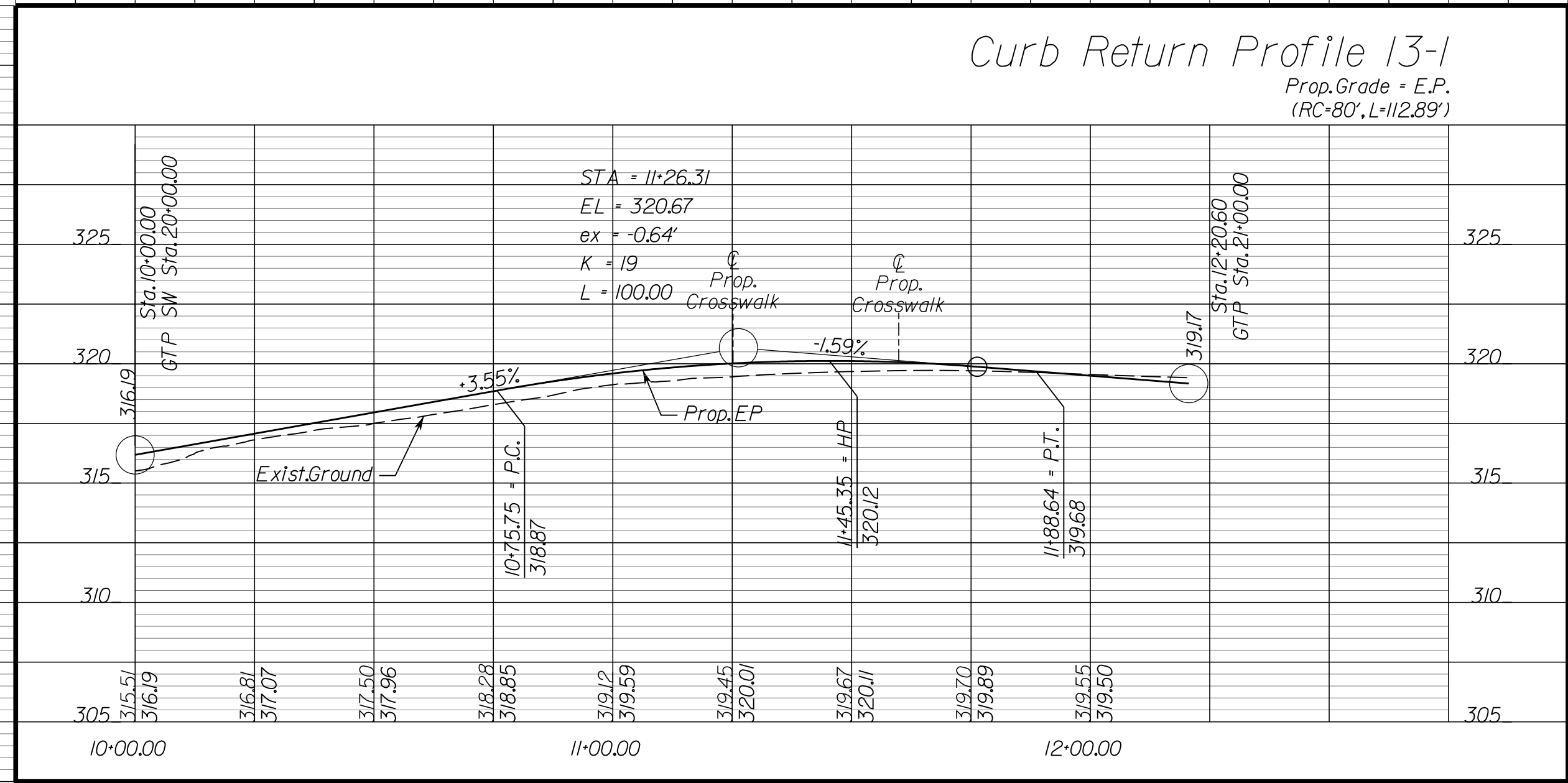
Rinker Design Assoc., P.C.  
Manassas, Virginia  
(HYDRAULICS ENGINEER)

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

REVISED	STATE	ROUTE	STATE PROJECT	SHEET NO
	VA.	495	0495-029-419 C501 RW201	20 AREA 3

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

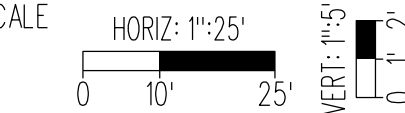
# CURB RETURN PROFILES



NOVA DISTRICT

10/6/2022

SCALE



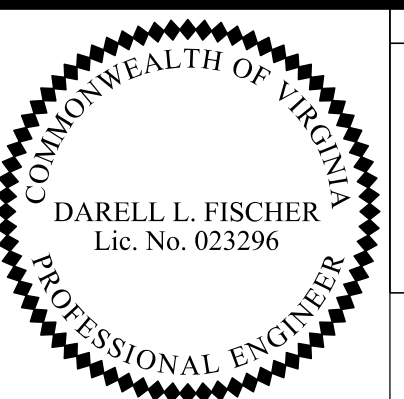
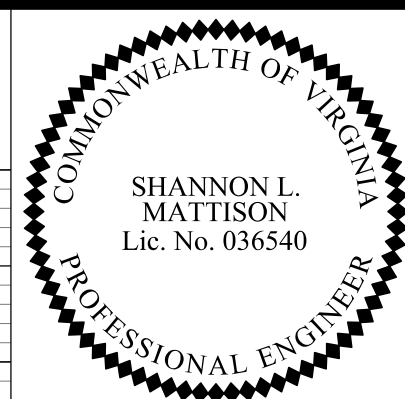
VDOT PROJECT NO.  
0495-029-419

SHEET NO.  
20  
AREA 3

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 - Michael Taylor LS, (703) 635-3060, 12/2021



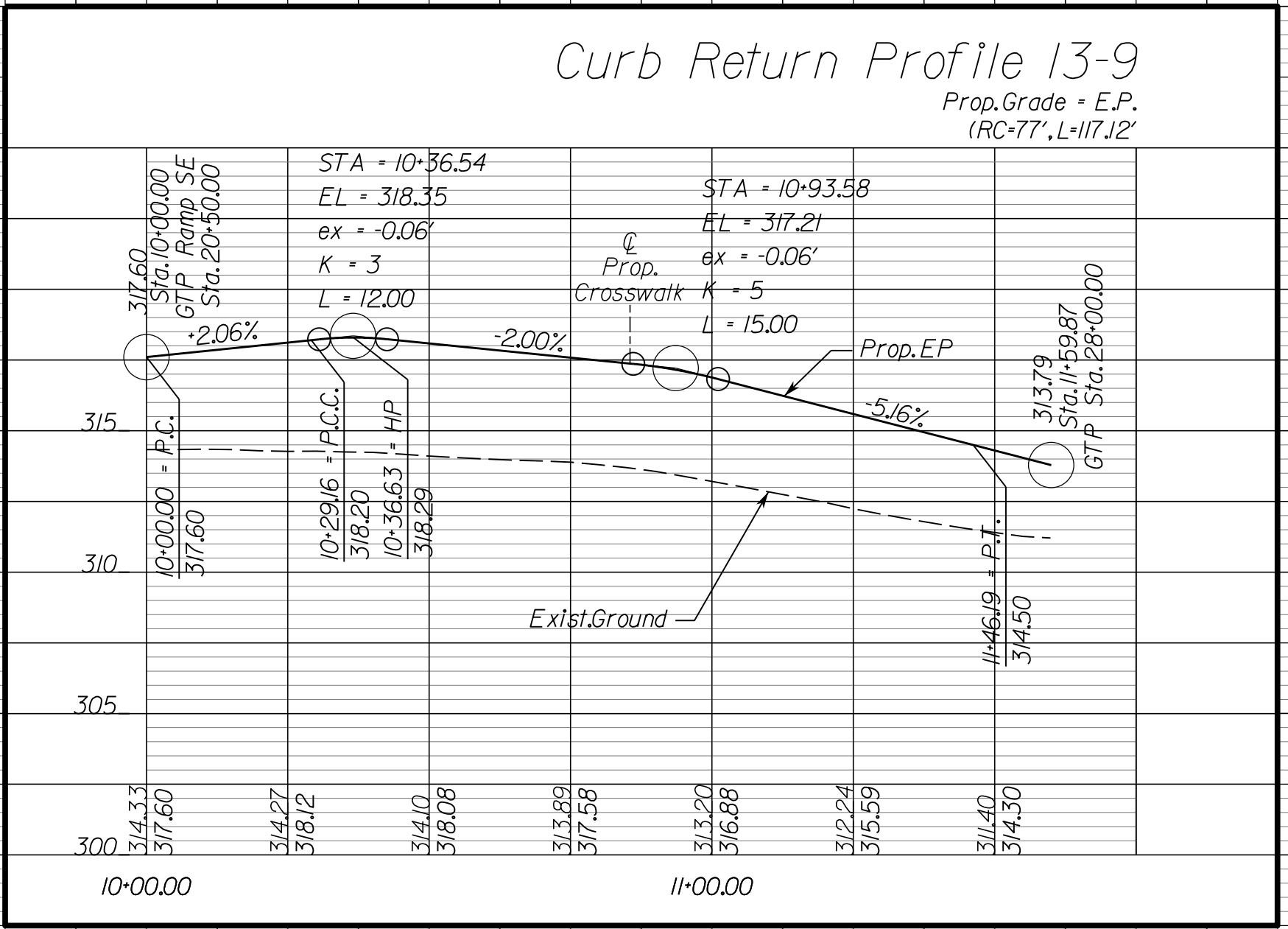
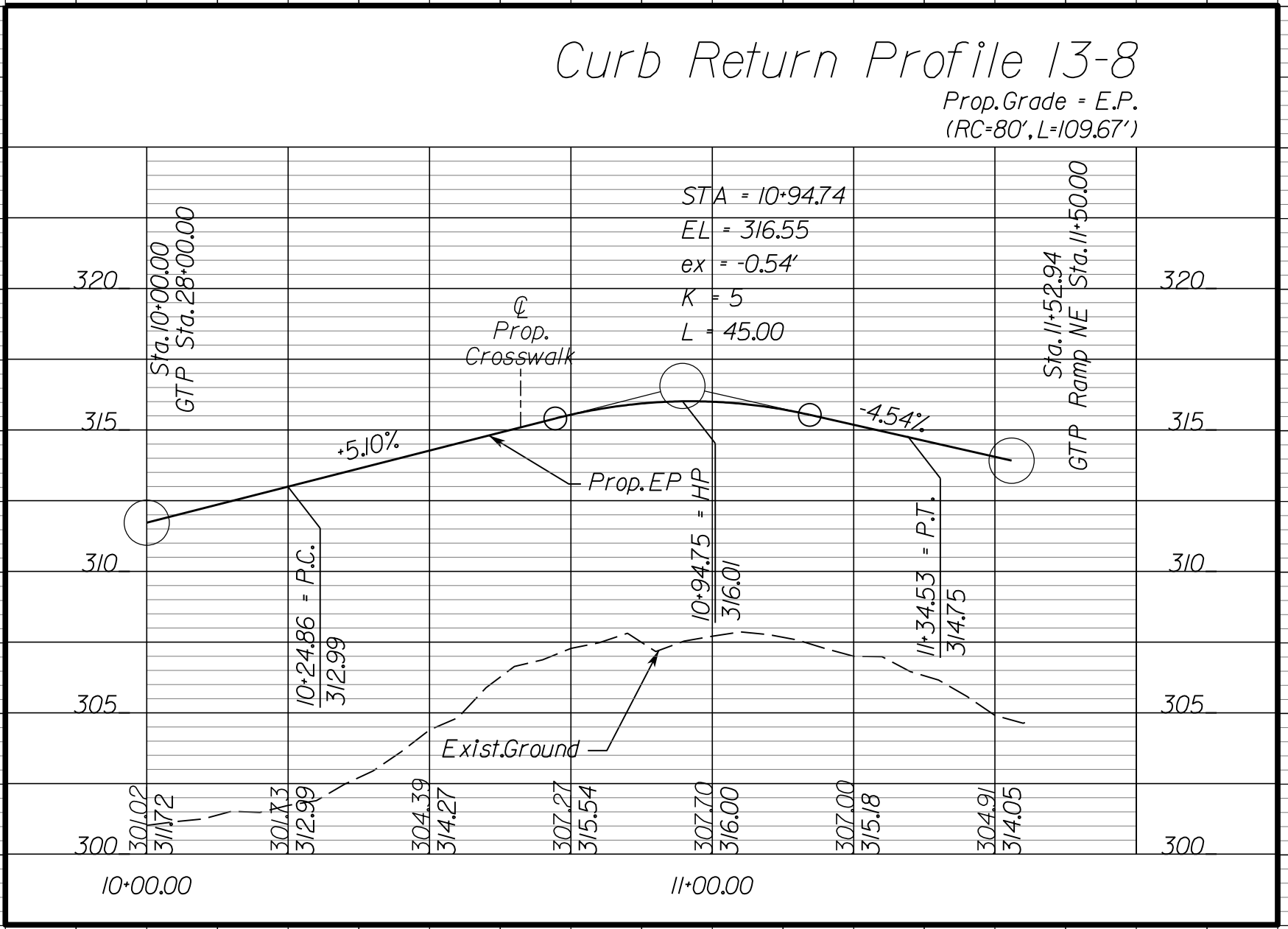
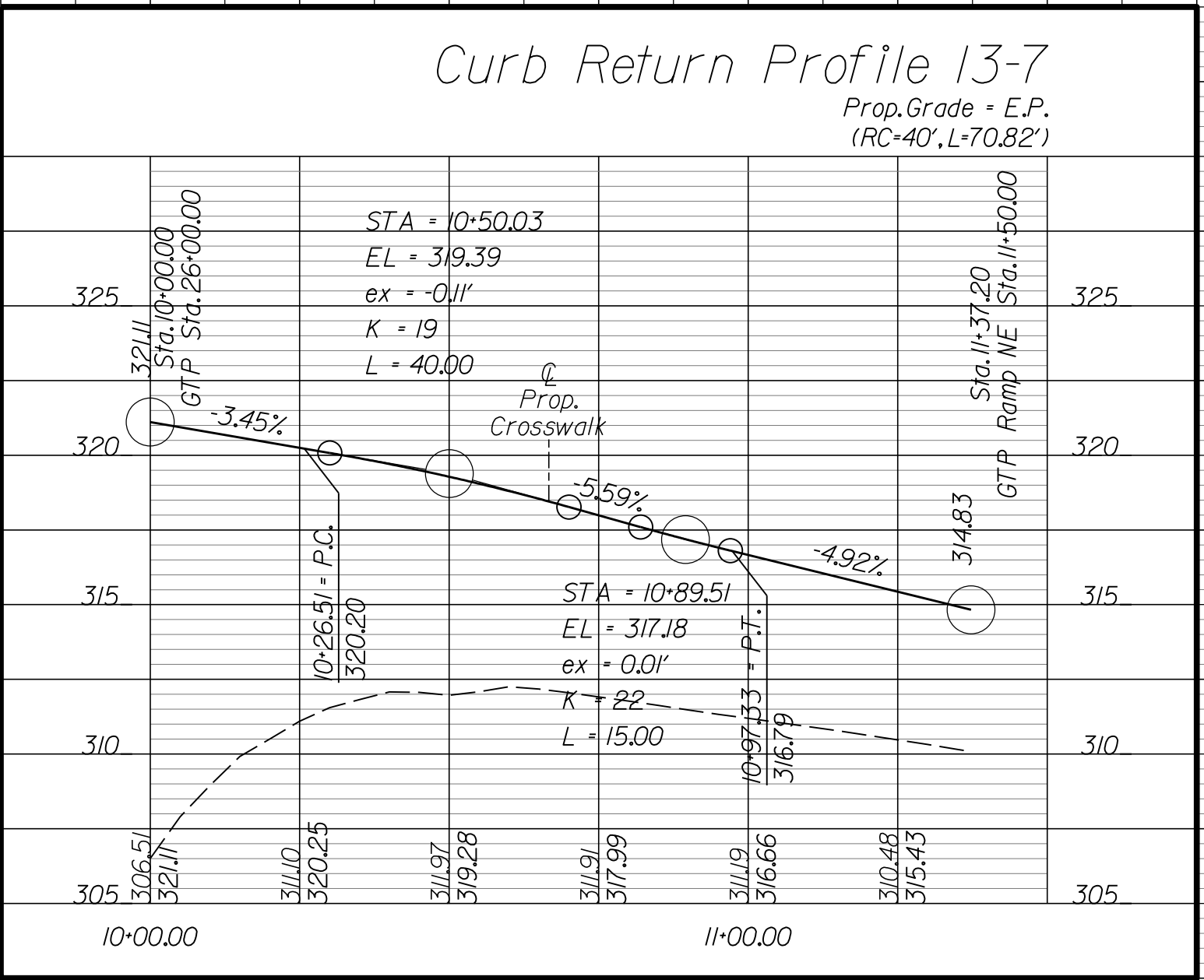
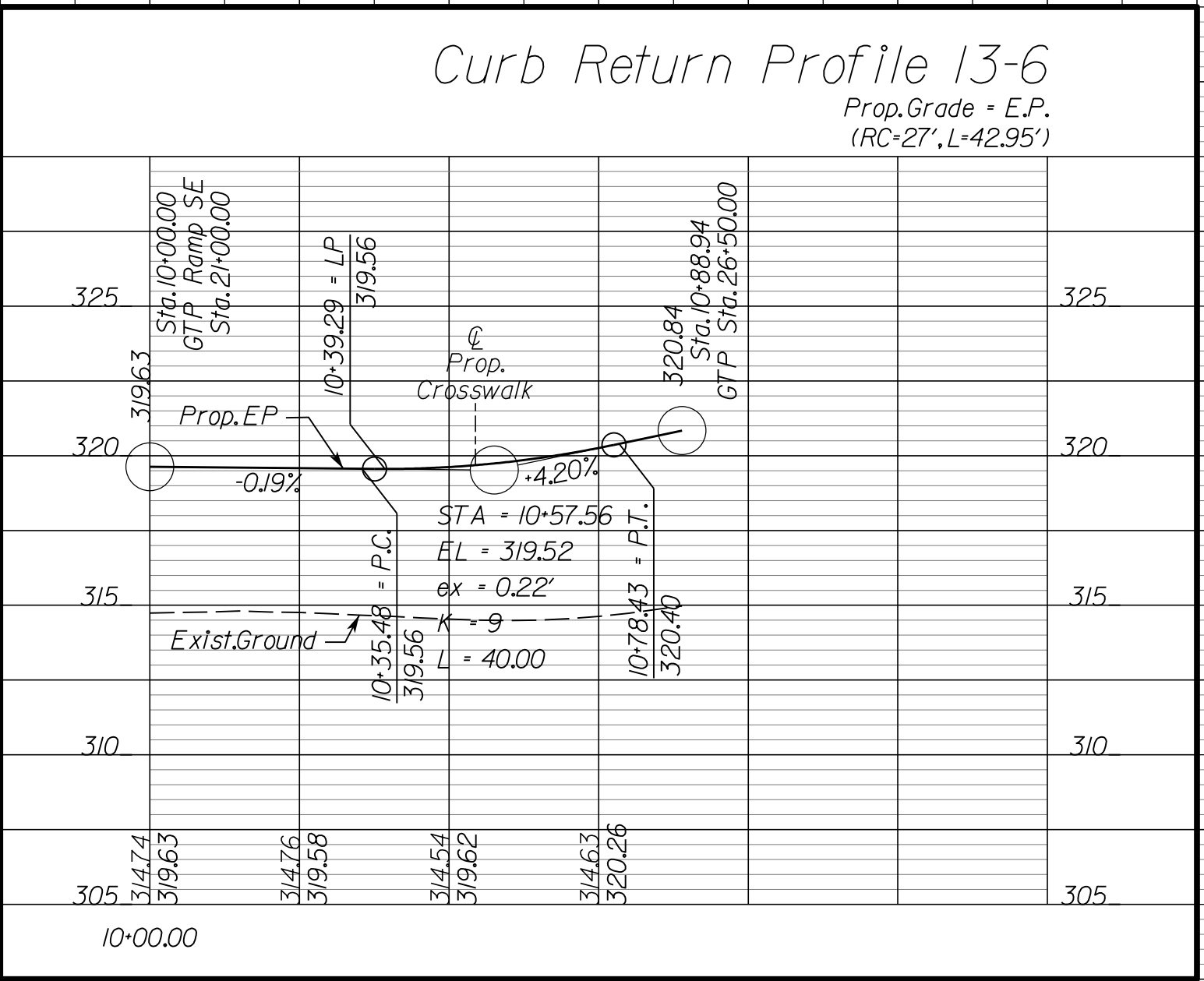
REVISED	STATE	ROUTE	STATE PROJECT	SHEET NO
	VA.	495	0495-029-419 C501 RW201	20(1) AREA 3

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)

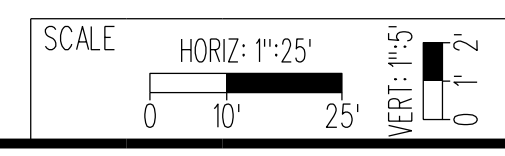
Rinker Design Assoc., P.C.  
Manassas, Virginia  
(ROADWAY ENGINEER)

# CURB RETURN PROFILES



NOVA DISTRICT

10/16/2022



VDOT PROJECT NO.  
0495-029-419

SHEET NO.  
20(1)  
AREA 3

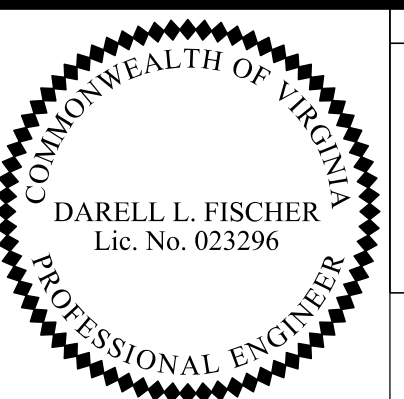
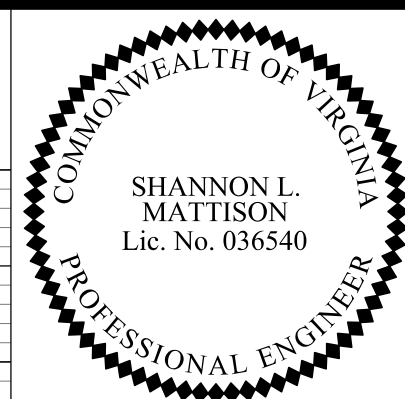
APPROVED FOR CONSTRUCTION







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 - Michael Taylor LS, (703) 635-3060, 12/2021



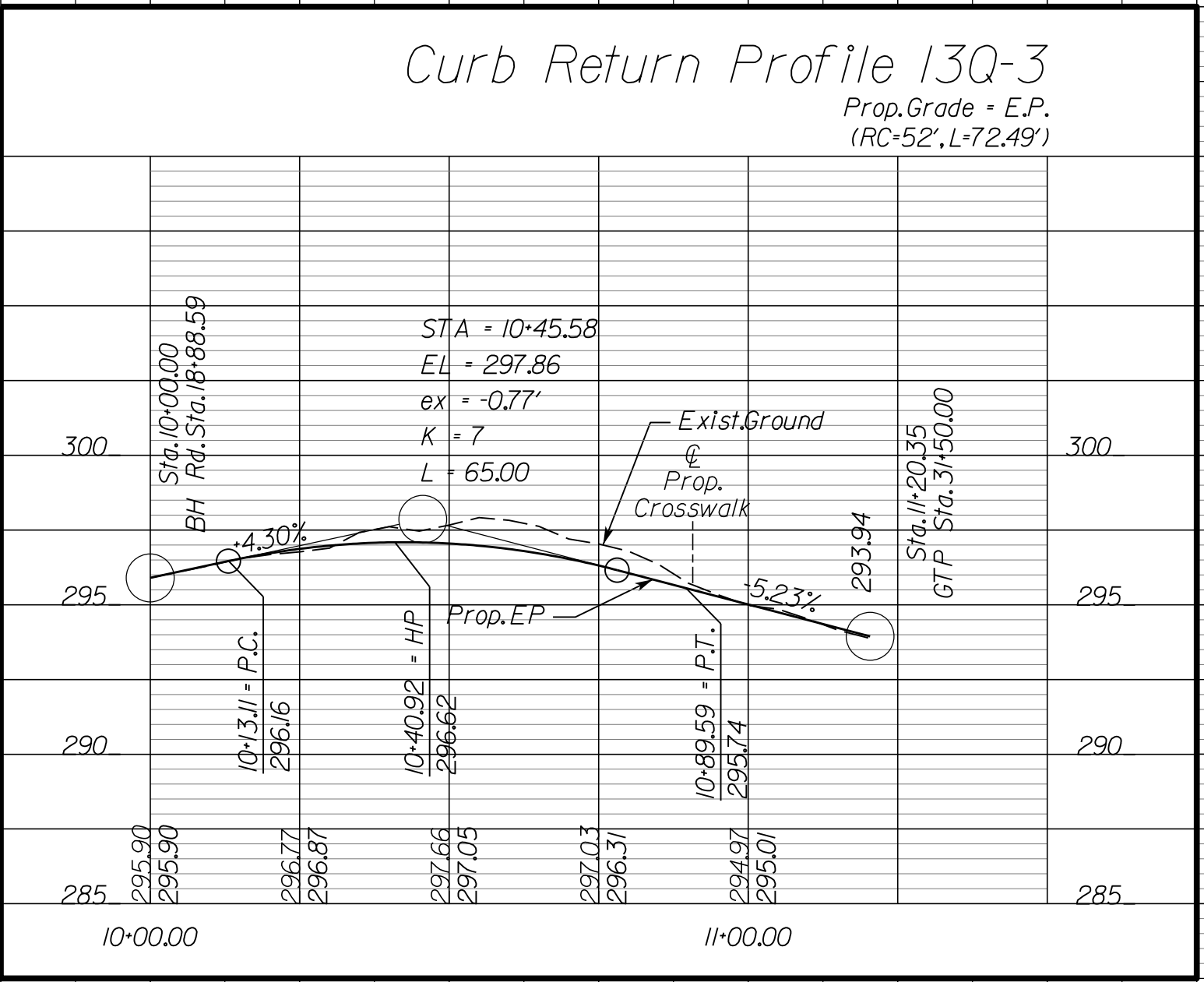
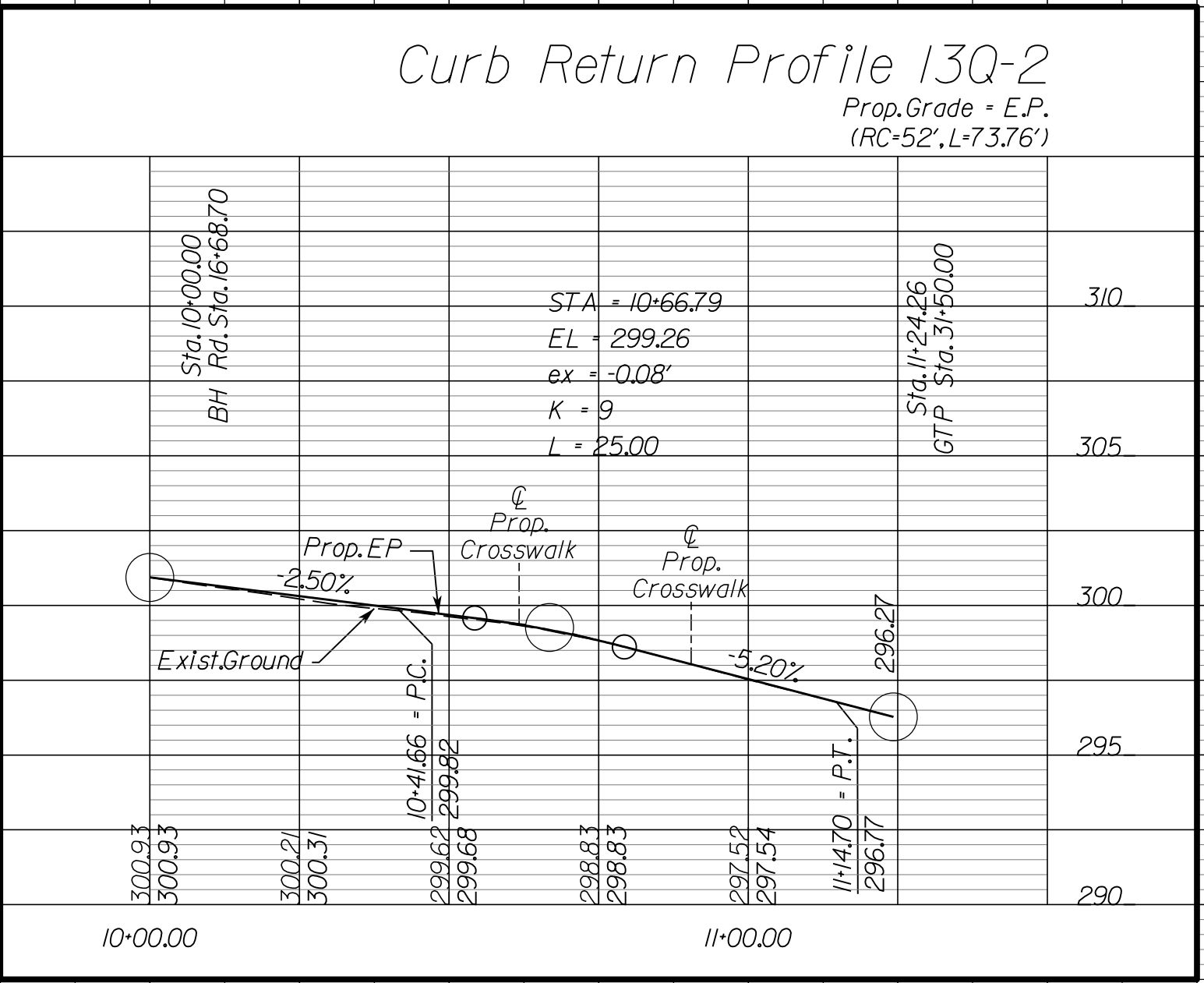
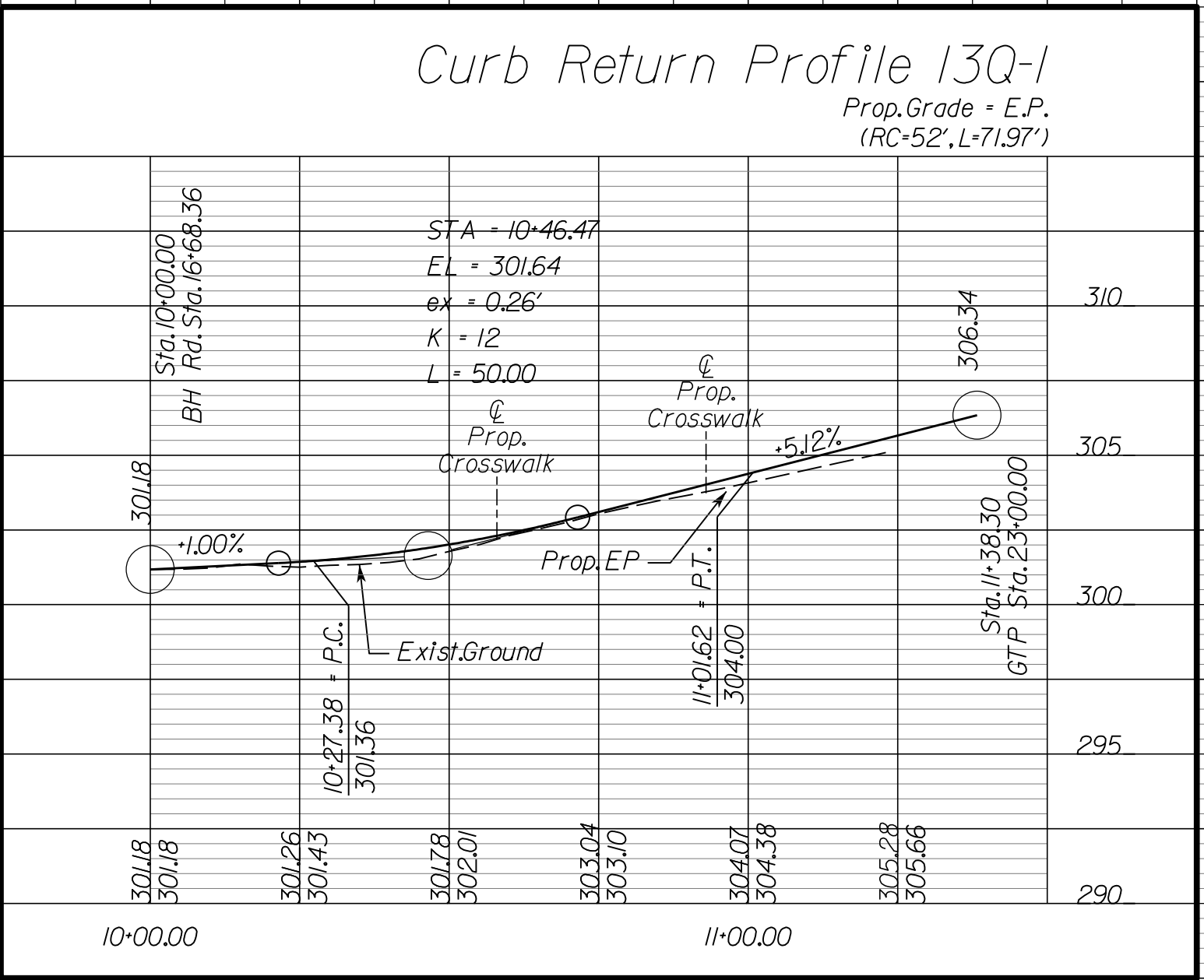
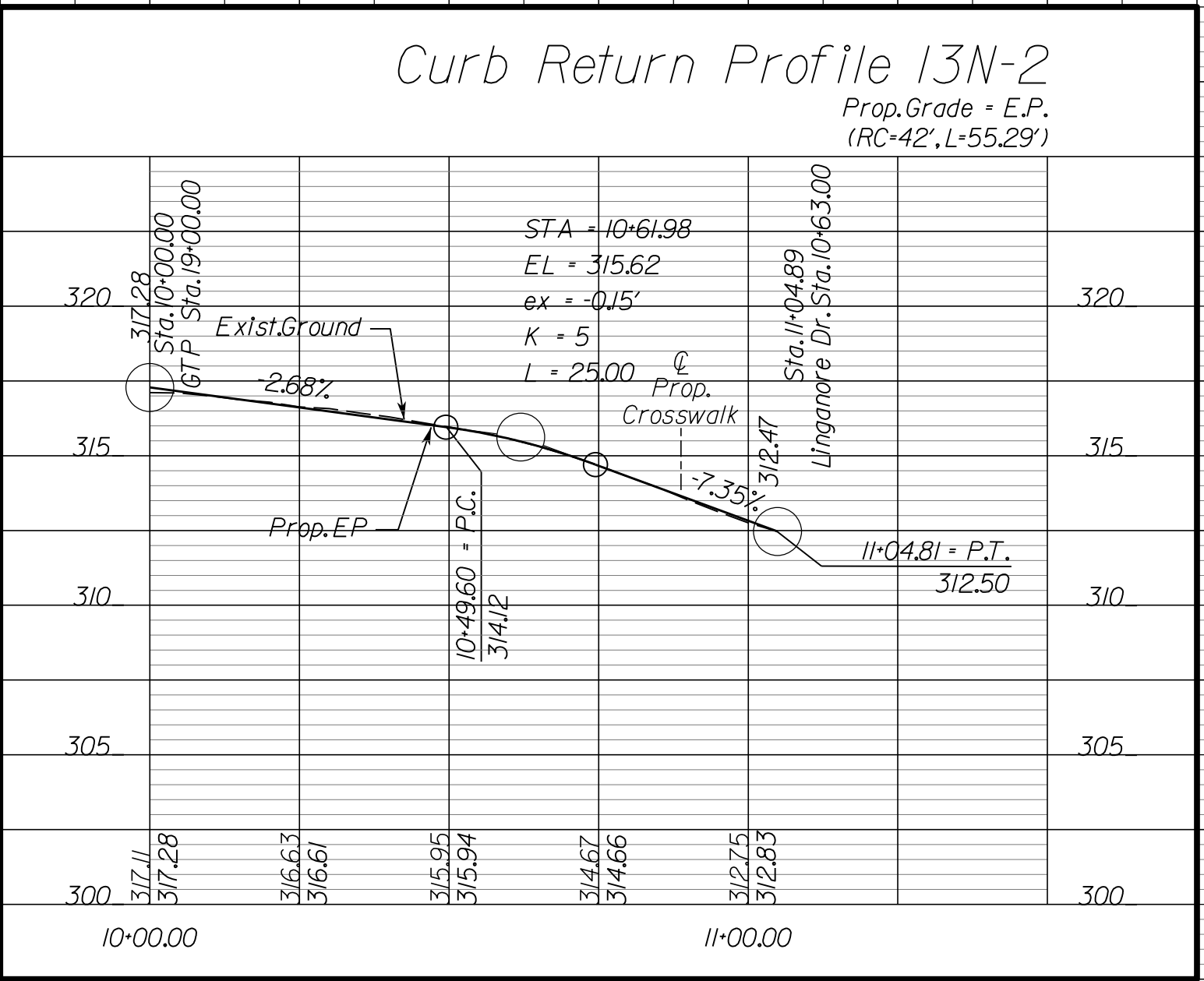
REVISED	STATE	ROUTE	STATE PROJECT	SHEET NO
	VA.	495	0495-029-419 C501 RW201	20(3) AREA 3

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)

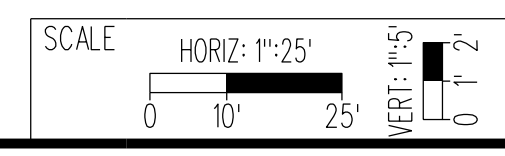
Rinker Design Assoc., P.C.  
Manassas, Virginia  
(ROADWAY ENGINEER)

# CURB RETURN PROFILES



NOVA DISTRICT

10/16/2022



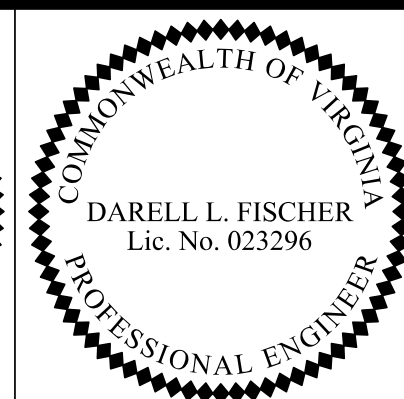
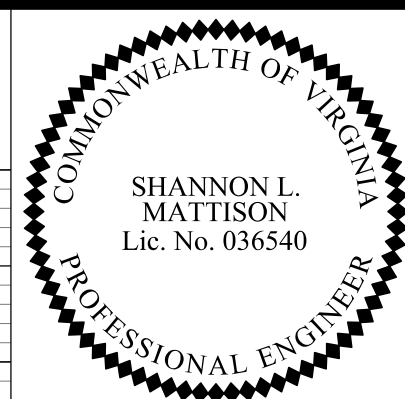
VDOT PROJECT NO.  
0495-029-419

SHEET NO.  
20(3)  
AREA 3

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 - Darel Fischer PE, (703) 334-0823  
SUBSURFACE UTILITY BY, DATE Accurmark - Michele Taylor LS, (703) 635-3060, 12/2021



REVISED	STATE	ROUTE	STATE PROJECT	SHEET NO
	VA.	495	0495-029-419 C501 RW201	20(4) AREA 3

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

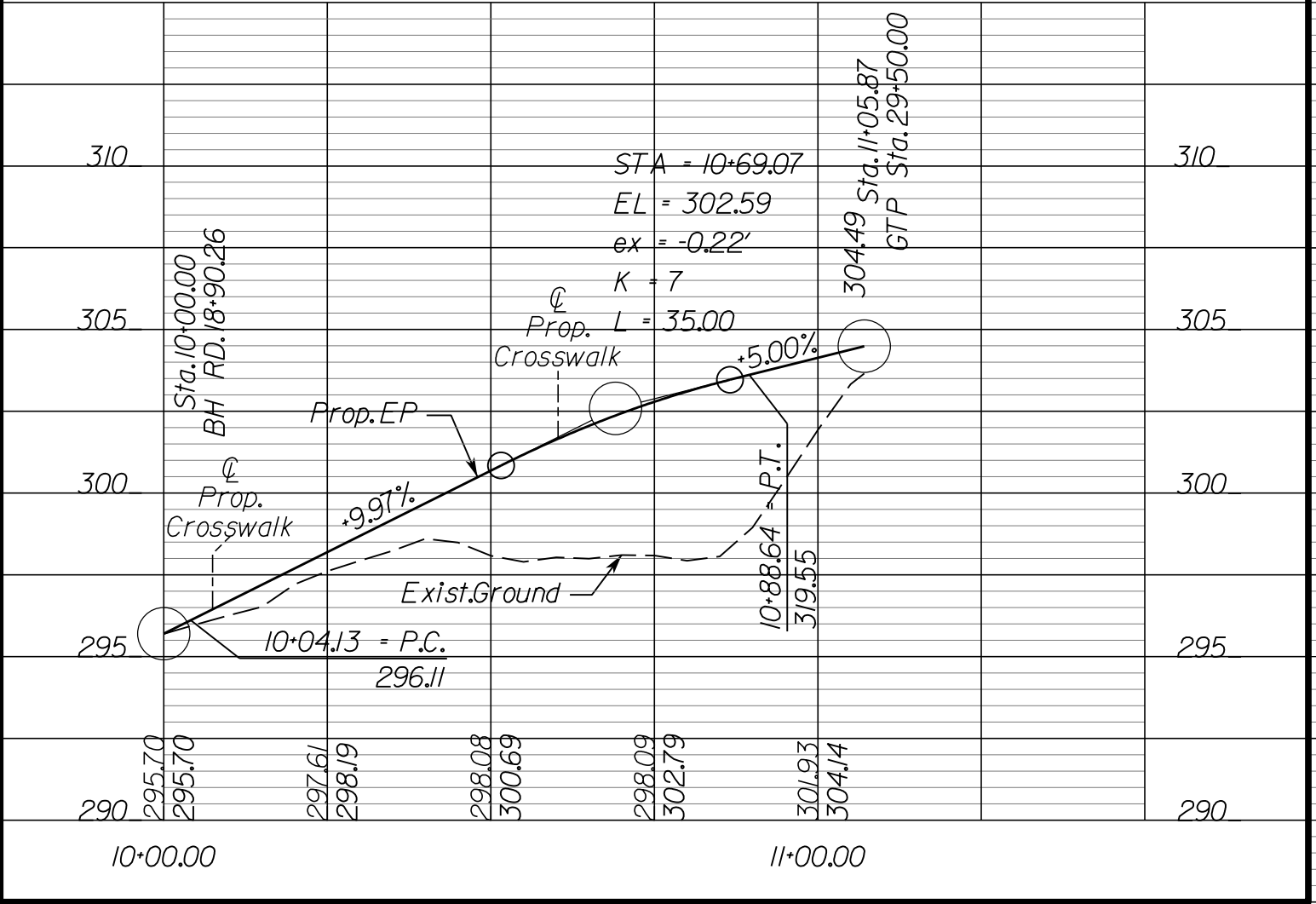
Rinker Design Assoc., P.C.  
Manassas, Virginia  
(HYDRAULICS ENGINEER)

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

# CURB RETURN PROFILES

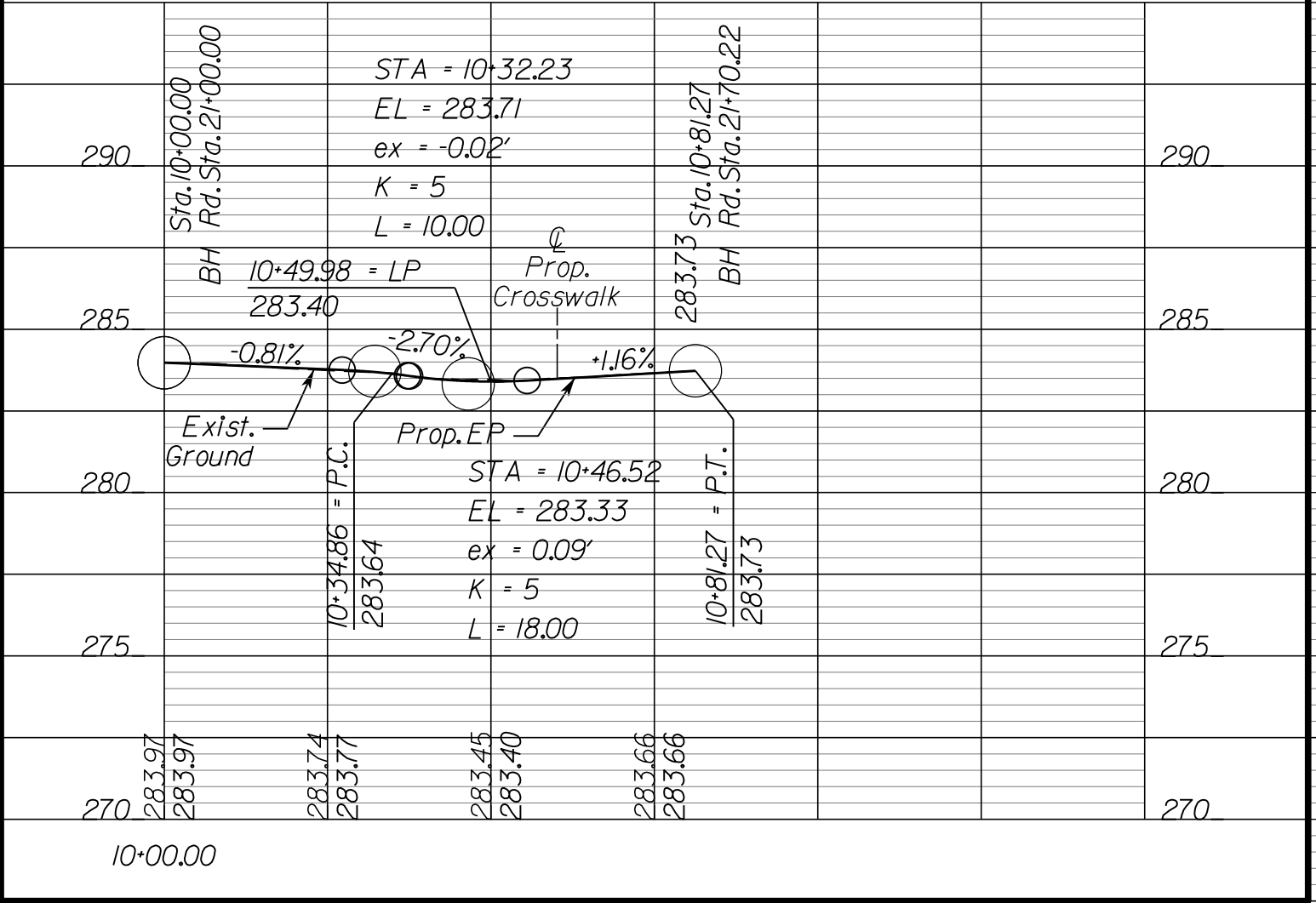
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Prop. Grade = E.P.  
(RC=52', L=84.52')



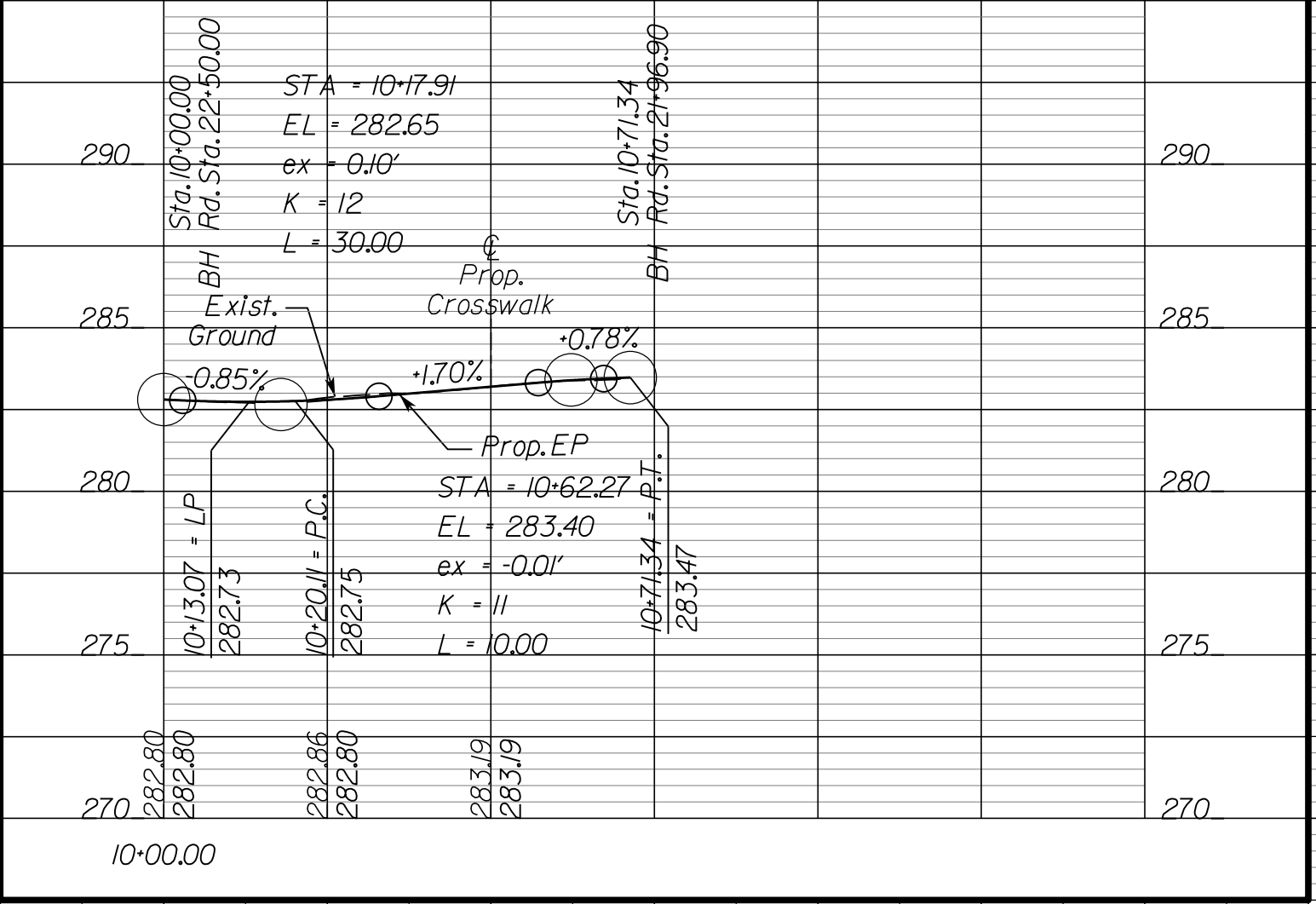
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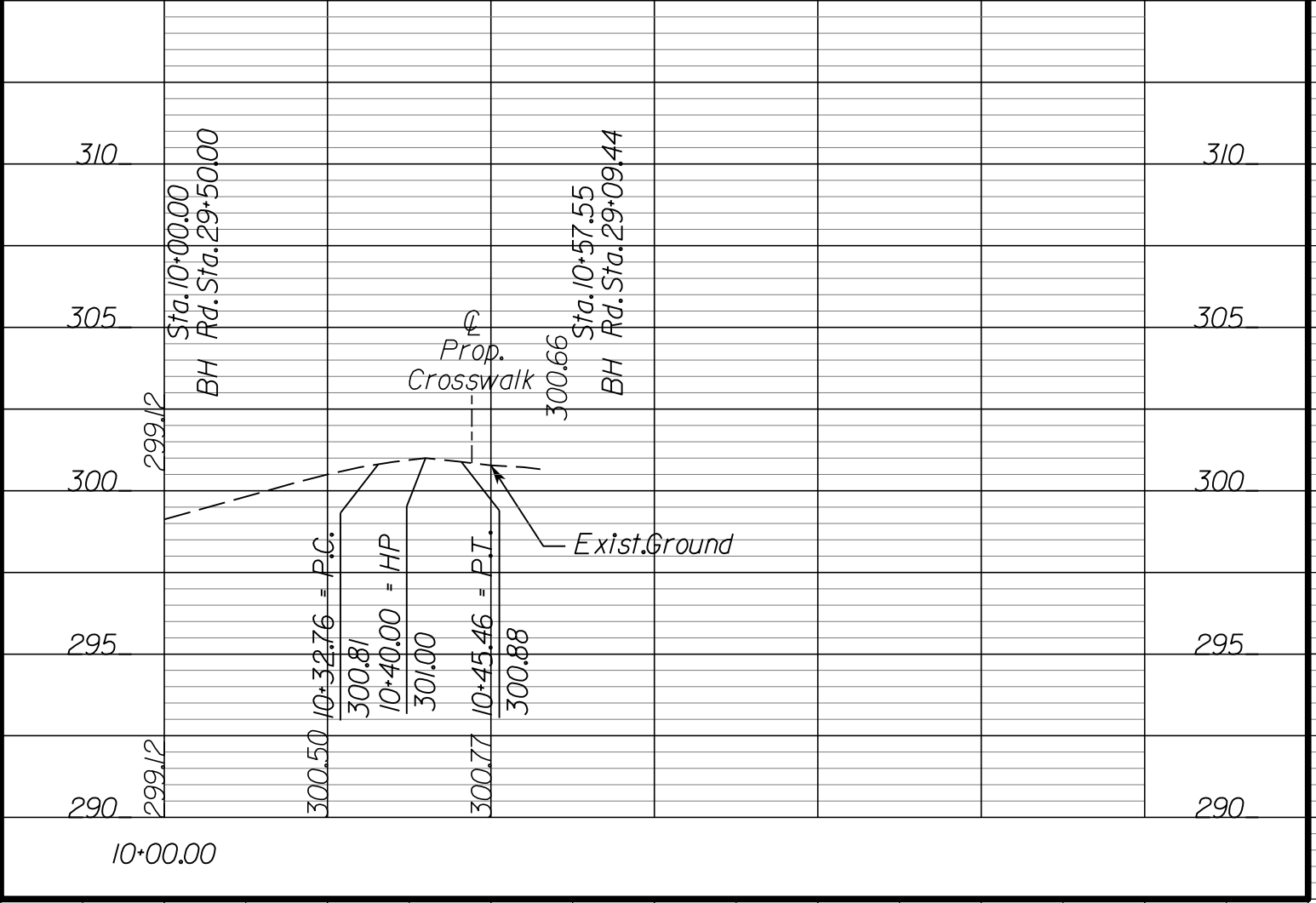
### Curb Return Profile 13Q-6

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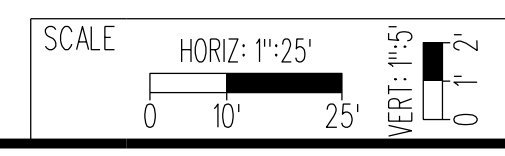


### Curb Return Profile 14-1

Prop. Grade = E.P.  
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NOVA DISTRICT

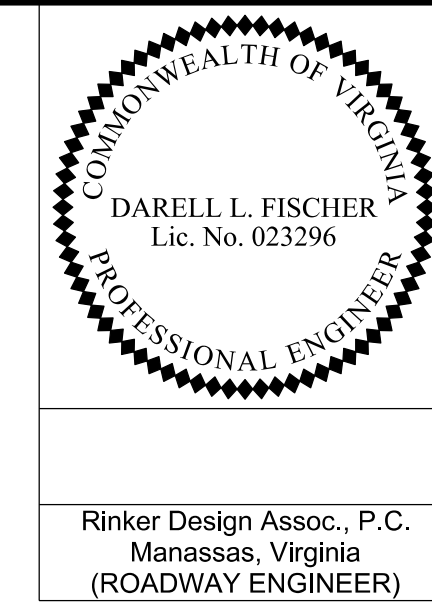


APPROVED FOR CONSTRUCTION



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

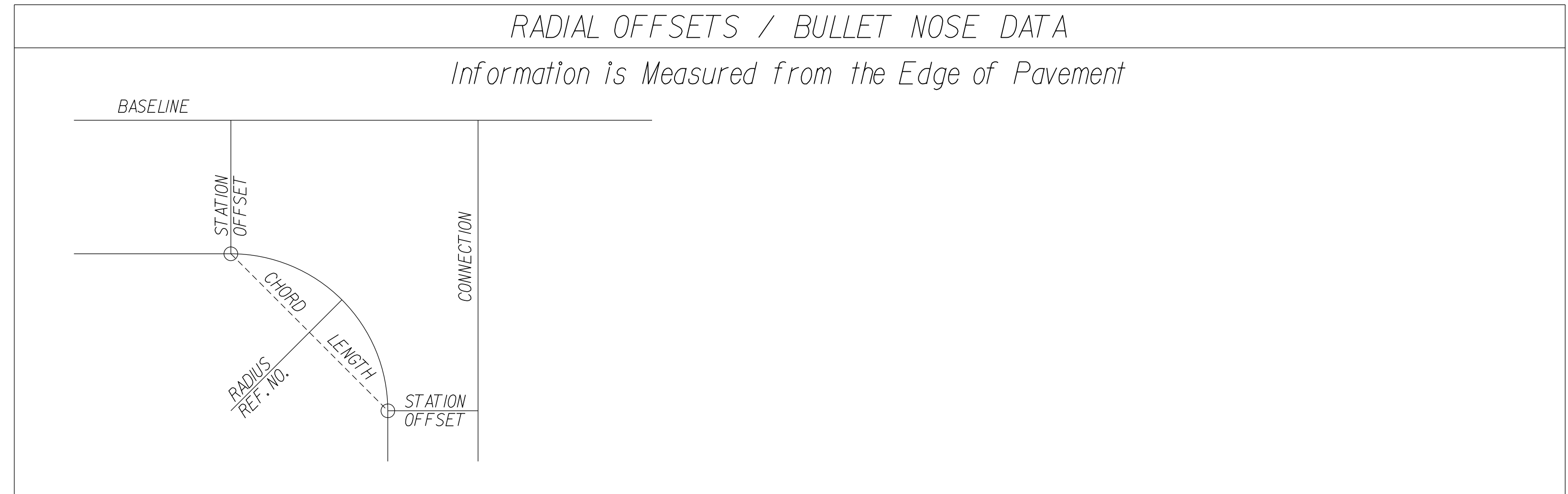
# Radial Offsets / Bullet Nose Data



REVISED	STATE	ROUTE	STATE	VDOT PROJECT NO.	SHEET NO.
	VA.	495		0495-029-419 C501 RW201	20(5) AREA 3

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)



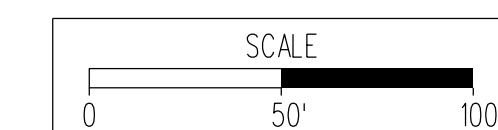
## RADIAL OFFSETS / BULLET NOSE DATA

Information is Measured from the Edge of Pavement

LOCATION (REF. NO.)	BASELINE		CONNECTION		RADIUS LENGTH	CHORD LENGTH	CURVE LENGTH	LOCATION (REF. NO.)	BASELINE		CONNECTION		RADIUS LENGTH	CHORD LENGTH	CURVE LENGTH	
	SHEET - ITEM	STATION	OFFSET	STATION					OFFSET	FEET	FEET	FEET				SHEET - ITEM
13-1	21-31.96	51.00 (RT)	20-75.65	13.62 (LT)	80'	103.75	112.89									
13-2	21-26.82	50.76 (LT)	6-08.33	24.00 (LT)	102.00	124.35	133.71									
13-3	22-58.08	39.00 (LT)	5-55.07	0.00 (RT)	27.00	41.87	47.91									
13-4	22-52.70	45.82 (RT)	21-38.28	18.83 (RT)	10.00	12.08	12.98									
13-5	21-38.99	16.97 (RT)	21-12.15	12.00 (RT)	75.00	27.29	27.45									
13-6	26-60.51	39.00 (RT)	21-35.48	0.00 (LT)	27.00	38.56	42.95									
13-7	26-26.51	39.00 (LT)	11-10.13	0.00 (LT)	40.00	61.93	70.82									
13-8	27-75.14	51.00 (LT)	11-31.59	36.00 (RT)	80.00	101.29	109.67									
13-9	20-92.67	51.00 (RT)	20-79.00	24.00 (RT)	77.00	106.15	117.12									
13-10	24-88.01	13.68 (LT)	25-02.40	24.85 (LT)	32.00	18.21	18.47									
13-11	25-39.98	24.75 (LT)	25-54.73	13.52 (LT)	32.00	18.54	18.81									
13-12	28-85.15	10.50 (LT)	28-93.22	18.40 (LT)	8.00	11.25	12.48									
13-13	21-75.51	64.20 (LT)	5-46.87	55.86 (LT)	8.00	12.01	13.65									
13-14	21-85.23	46.86 (LT)	21-85.23	45.00 (LT)	1.00	1.93	2.61									
13-15	21-60.23	46.86 (LT)	5-51.80	17.88 (LT)	122.00	39.58	39.75									
13-16	5-51.33	16.00 (LT)	5-51.80	17.88 (LT)	1.00	1.94	2.66									
13-17	22-09.09	45.00 (LT)	5-25.85	16.00 (LT)	2.00	2.49	2.69									
13-18	22-80.26	2.00 (RT)	22-80.45	2.00 (LT)	2.00	4.00	6.28									
13-19	21-67.08	1.50 (RT)	21-67.08	26.00 (LT)	13.50	28.00	42.41									
13-20	21-57.36	17.91 (RT)	27-06.81	44.00 (RT)	1.00	1.41	1.56									
13-21	21-26.88	19.84 (RT)	21-27.40	18.00 (RT)	1.00	1.92	2.58									
13-22	27-38.68	45.86 (LT)	21-26.88	19.80 (LT)	95.00	43.35	43.73									
13-23	27-38.17	44.00 (RT)	27-38.67	45.86 (RT)	1.00	1.93	2.61									
13-24	27-27.45	42.52 (LT)	27-28.25	46.30 (LT)	2.00	3.85	5.21									
13-25	27-28.25	46.30 (LT)	10-87.73	29.81 (LT)	83.00	37.93	38.26									
13-26	10-86.89	26.00 (RT)	10-87.73	29.81 (RT)	2.00	3.90	5.41									
13-27	27-03.28	41.00 (LT)	10-59.73	26.00 (LT)	2.00	2.62	2.85									
13-28	26-18.00	2.00 (LT)	26-18.00	2.00 (RT)	2.00	4.00	6.28									
13-29	21-76.29	14.63 (RT)	21-79.22	11.58 (RT)	3.00	4.23	4.70									
13-30	21-79.22	11.58 (RT)	22-01.18	10.98 (RT)	2.00	21.96	21.96									
13-31	22-01.18	10.98 (RT)	27-02.69	2.00 (LT)	3.00	4.27	4.75									
13N-1	18-36.01	51.00 (RT)	10-76.44	17.35 (LT)	42.00	46.22	48.95									
13N-2	18-50.51	34.14 (LT)	10-63.54	16.20 (RT)	42.00	51.38	55.29									
13O-1	29-86.68	51.00 (RT)	16-98.15	22.88 (LT)	52.00	66.36	71.97									
13O-2	31-40.60	33.00 (RT)	17-08.59	32.53 (RT)	52.00	67.73	73.76									
13O-3	31-14.50	45.00 (LT)	18-75.56	18.20 (RT)	52.00	66.76	72.49									
13O-4	29-68.47	39.00 (LT)	18-86.15	29.90 (LT)	52.00	75.52	84.52									
13O-5	21-48.19	20.73 (LT)	21-63.37	31.48 (LT)	33.00	18.20	18.44									
13O-6	22-00.86	28.81 (LT)	22-12.66	16.36 (LT)	33.00	17.16	17.36									
14-1	29-09.25	18.38 (LT)	29-17.25	10.25 (LT)	8.00	11.31	12.70									

NOVA DISTRICT

10/16/2022



VDOT PROJECT NO. 0495-029-419

SHEET NO. 20(5) AREA 3

APPROVED FOR CONSTRUCTION







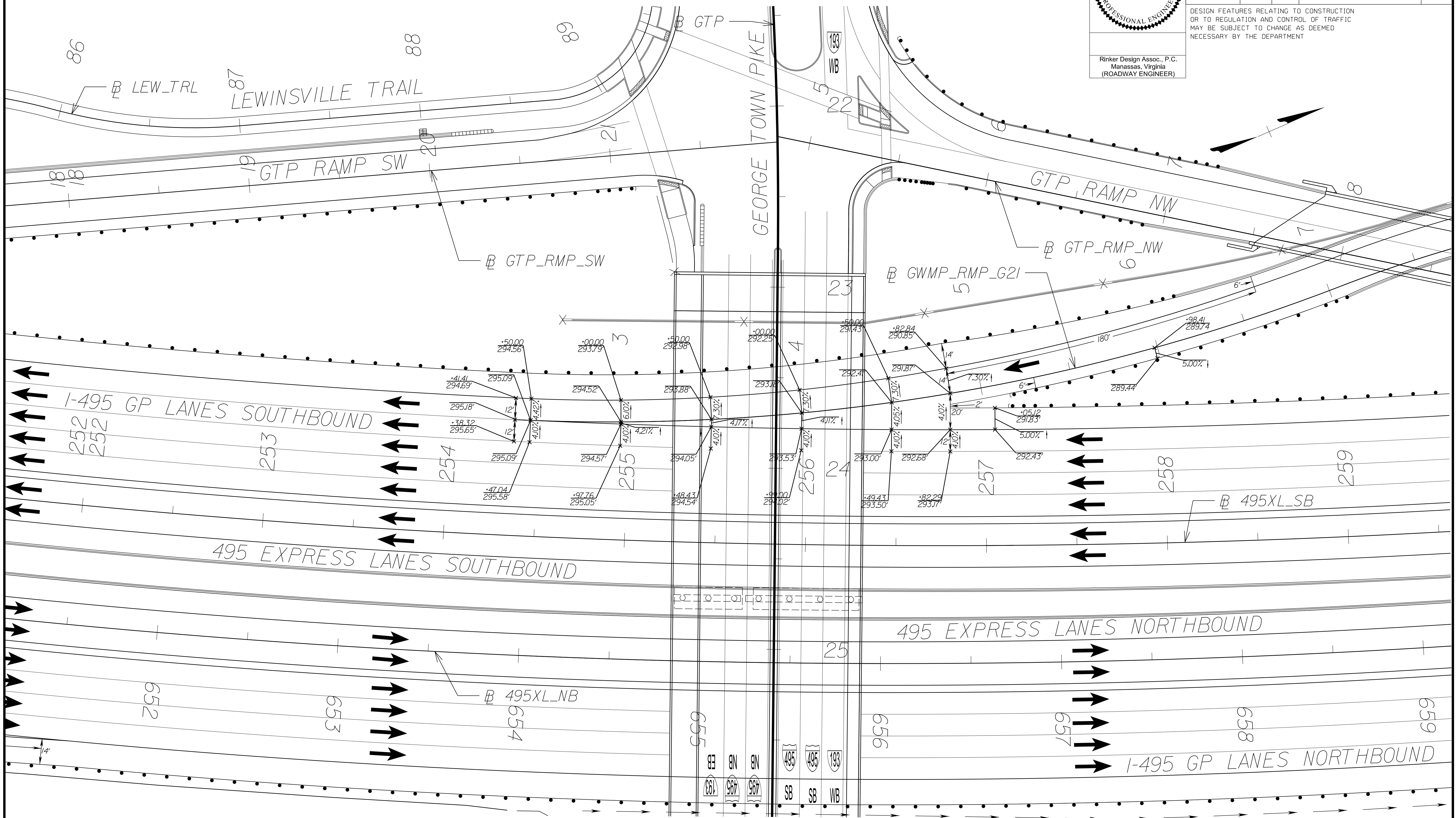
PROJECT MANAGER\_VDOT - Rupal Shah, P.E. (703) 259-2362  
 SURVEYED BY, DATE\_RDA - Nicholas Kougoullis, LS (703) 334-0837, 12/2021  
 DESIGN BY\_RDA - Darrell Fischer, P.E. (703) 334-0823  
 SUBSURFACE UTILITY BY, DATE\_Accumark - Michael Taylor, LS (703) 635-3060, 12/2021

# GORE DETAILS

DARELL L. FISCHER  
 Lic. No. 023296  
 Rinker Design Assoc., P.C.  
 Manassas, Virginia  
 (ROADWAY ENGINEER)

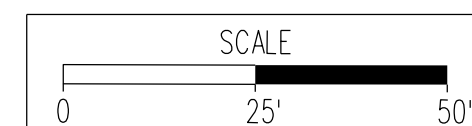
REVISED	STATE	ROUTE	STATE	VDOT PROJECT NO.	SHEET NO.
	VA.	495		0495-029-419 C501 RW201	2R(1) AREA 3

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

10/16/2022



VDOT PROJECT NO.  
0495-029-419

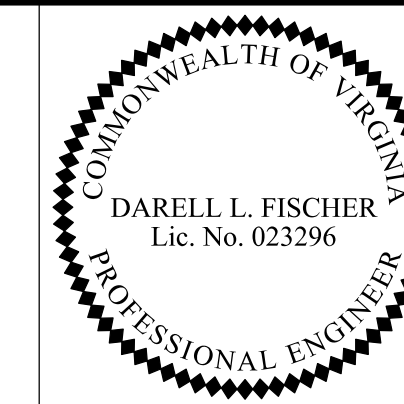
SHEET NO.  
2R(1)  
AREA 3

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

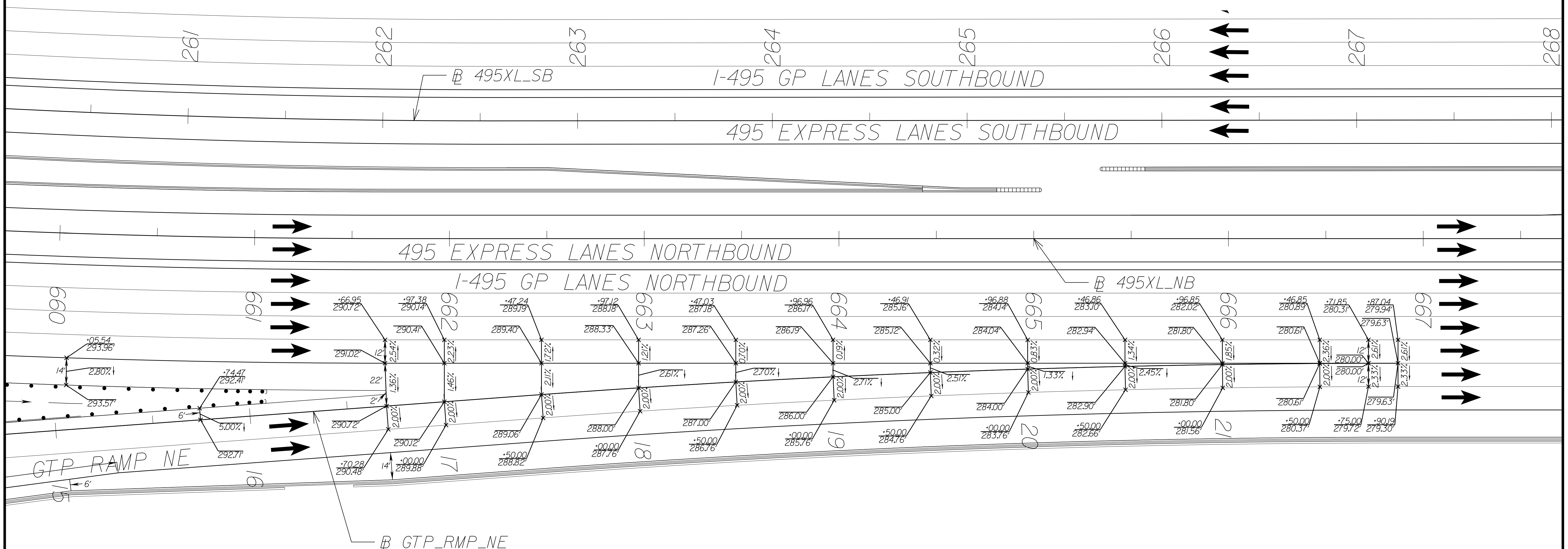
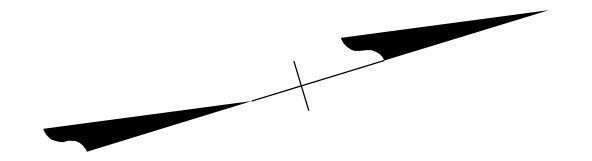
# GORE DETAILS



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 3

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

10/6/2022

SCALE 0 25' 50'	VDOT PROJECT NO. 0495-029-419	SHEET NO. 2R(2) AREA 3
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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\_Accurmark - Michael Taylor, LS (703) 635-3060, 12/2021

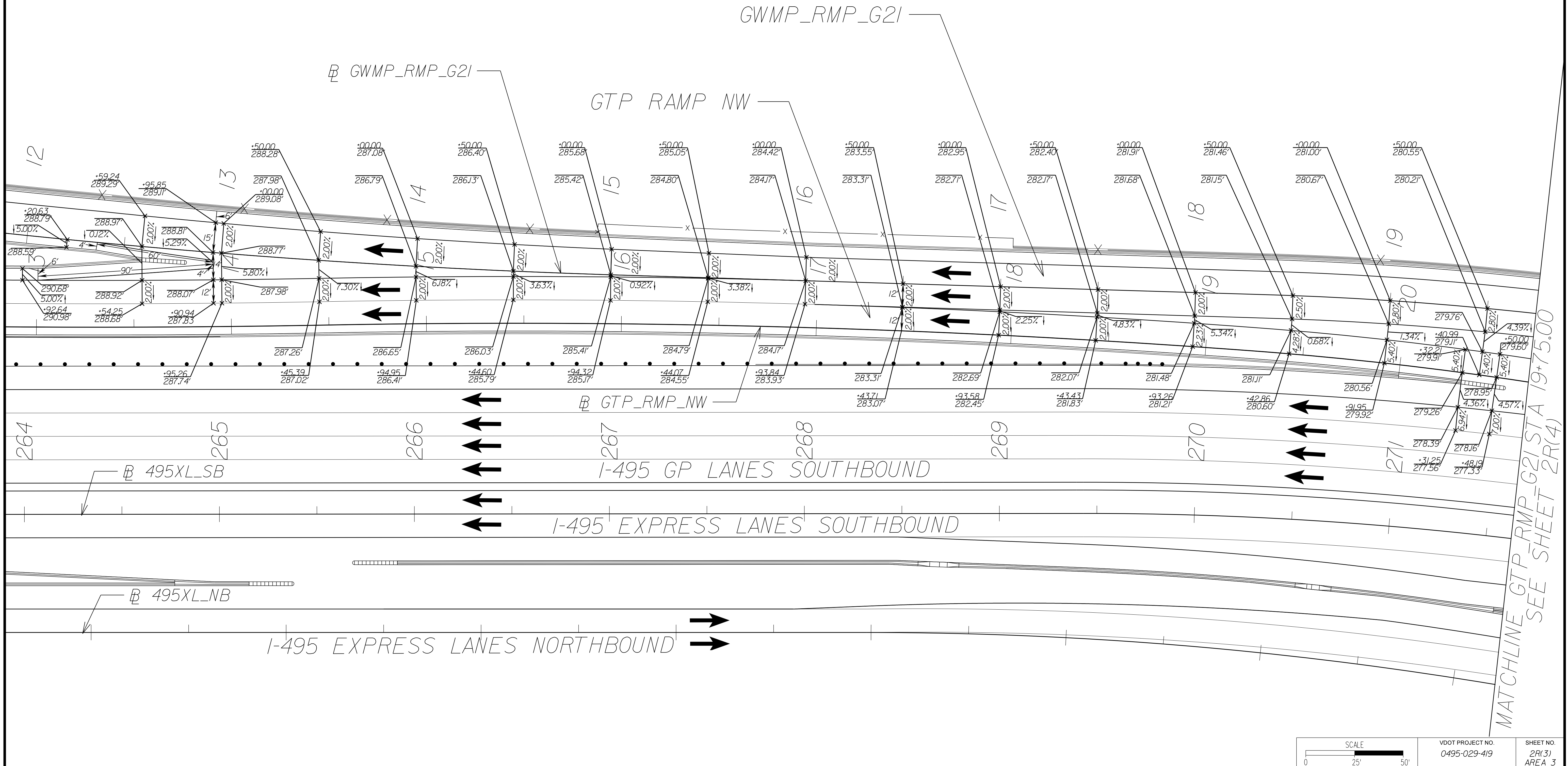
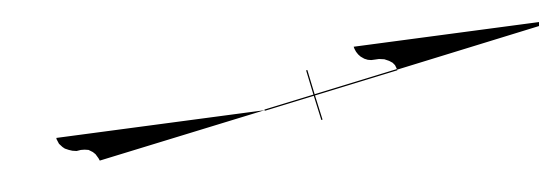
# GORE DETAILS

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(3) AREA 3

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(3) AREA 3
--------------------	----------------------------------	------------------------------

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\_Accurmark - Michael Taylor, LS (703) 635-3060, 12/2021

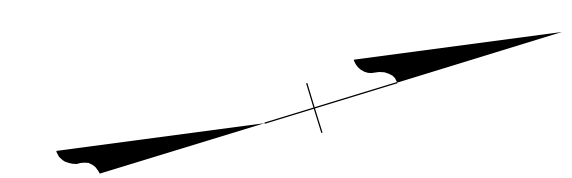
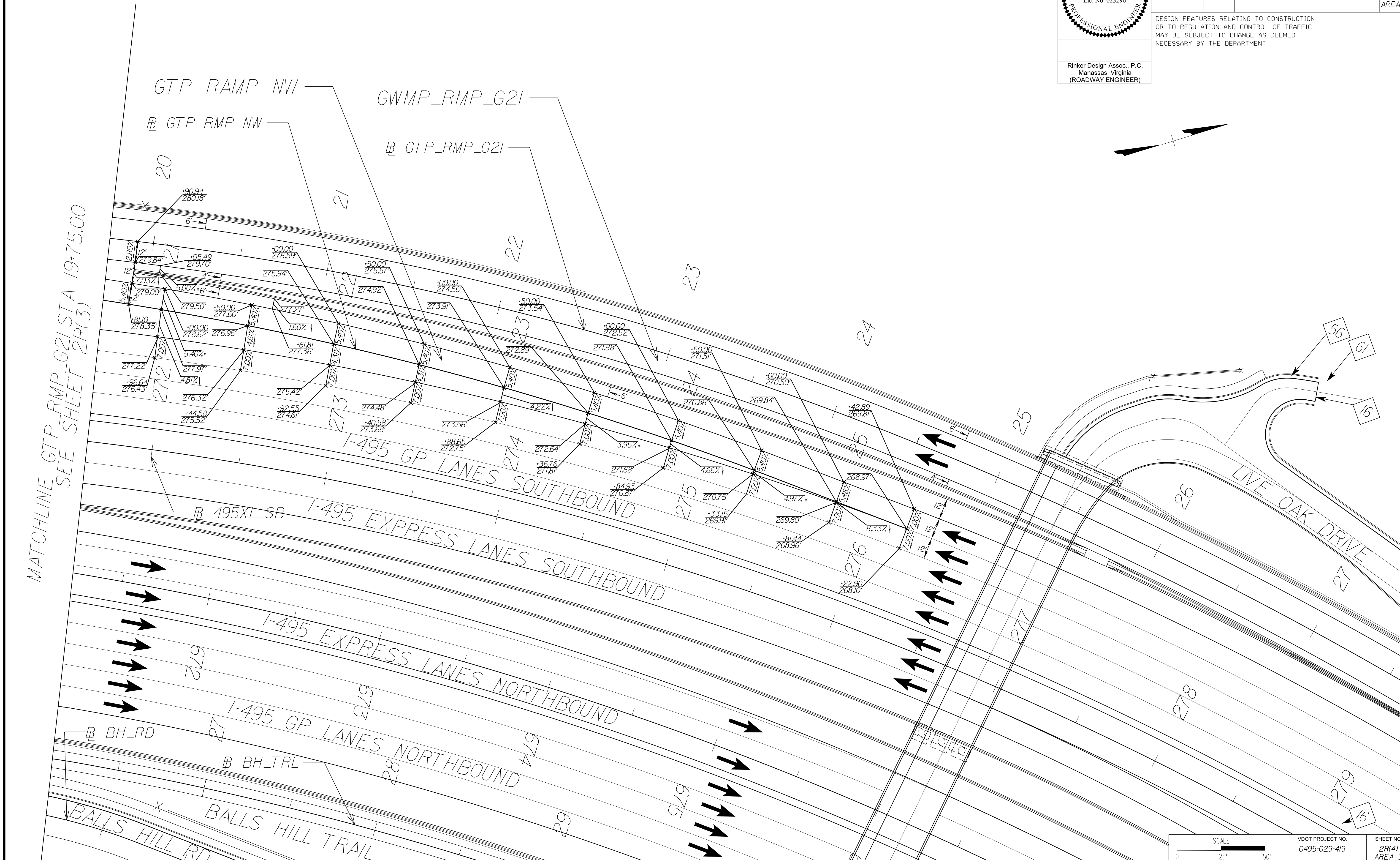
# GORE DETAILS

COMMONWEALTH OF VIRGINIA  
DARELL L. FISCHER  
Lic. No. 023296  
PROFESSIONAL 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	2R(4) AREA 3

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



MATCHLINE GTP\_RMP\_G2I STA 19+75.00  
SEE SHEET 2R(3)

NOVA DISTRICT

10/6/2022

APPROVED FOR CONSTRUCTION

SCALE 0 25' 50'

VDOT PROJECT NO. 0495-029-419

SHEET NO. 2R(4) AREA 3



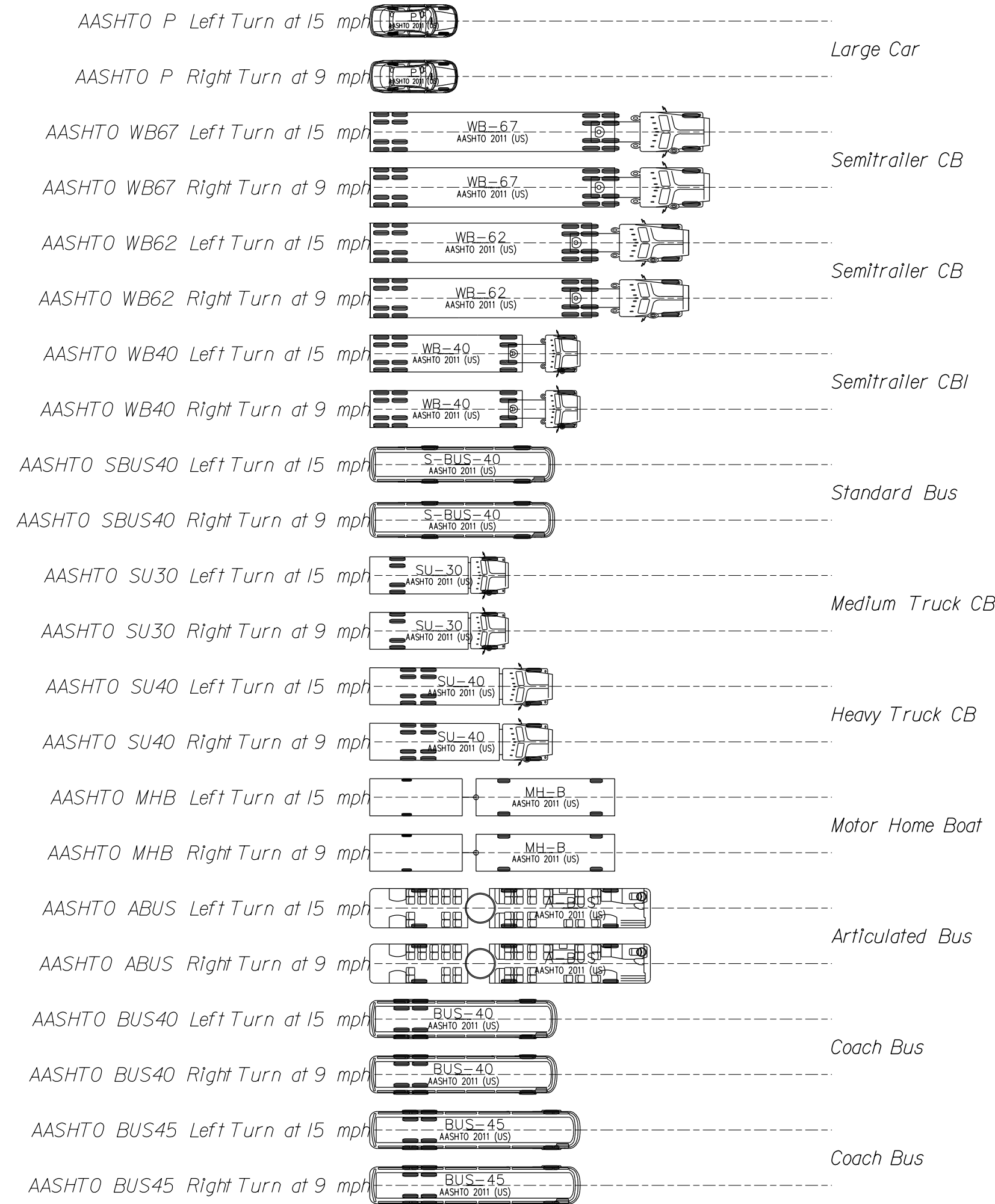
PROJECT MANAGER VDOT - *Ritupal Shah, P.E. (703) 259-2362*  
 SURVEYED BY, DATE RDA - *Nicholas Kaugaulis, LS (703) 334-0837, 12/2021*  
 DESIGN BY RDA - *Darrell Fischer, P.E. (703) 334-0823*  
*Dewberry - Ron Jakomilich, P.E. (703) 849-0651*  
 SUBSURFACE UTILITY BY, DATE Accurmark - *Michael Taylor,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

# AutoTURN Legend & Notes

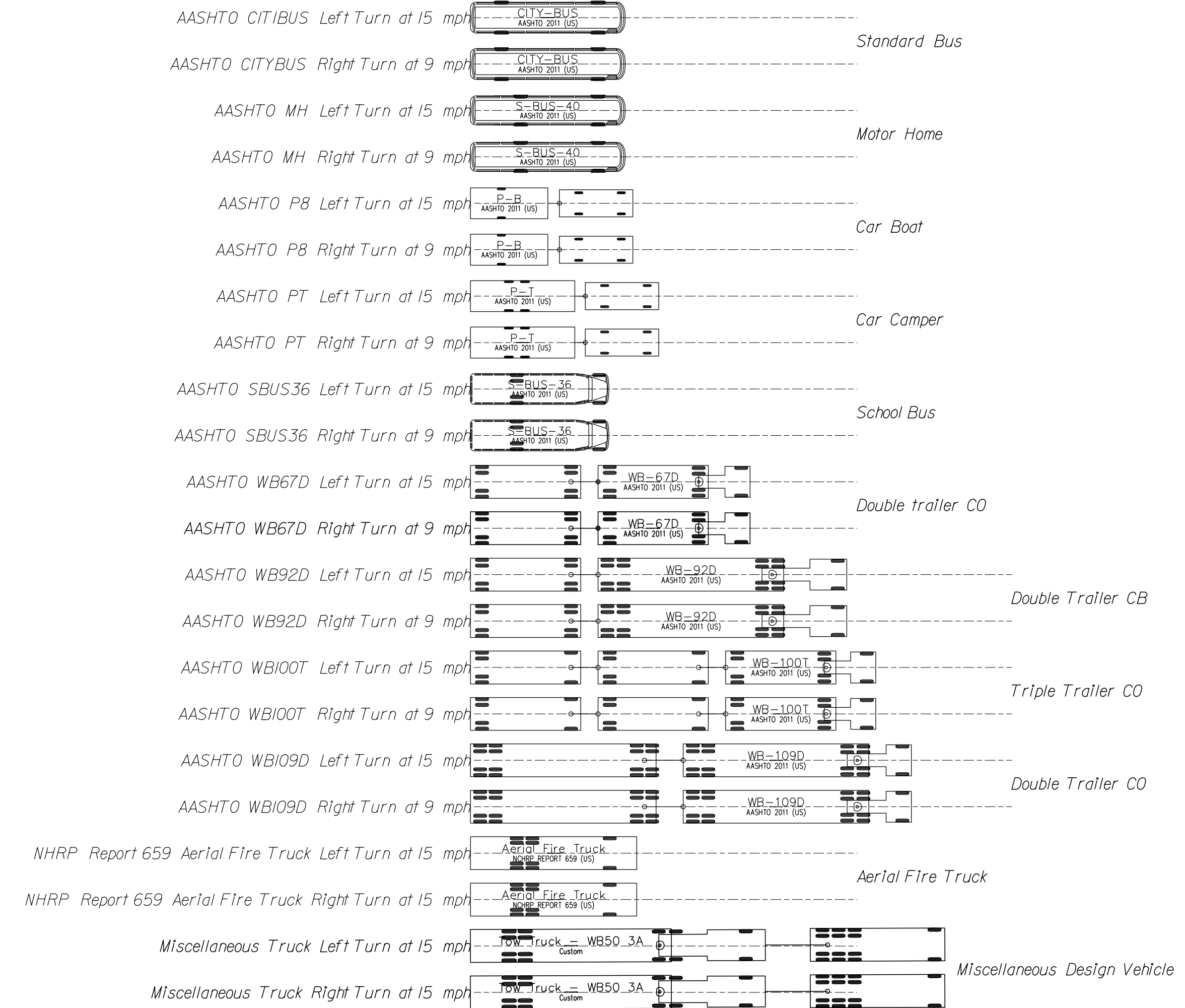
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	VA	495		0495-029-419 C501 RW201	2S AREA 3

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

10/6/2022

APPROVED FOR CONSTRUCTION

VDOT PROJECT NO. 0495-029-419	SHEET NO. 2S AREA 3
----------------------------------	---------------------------

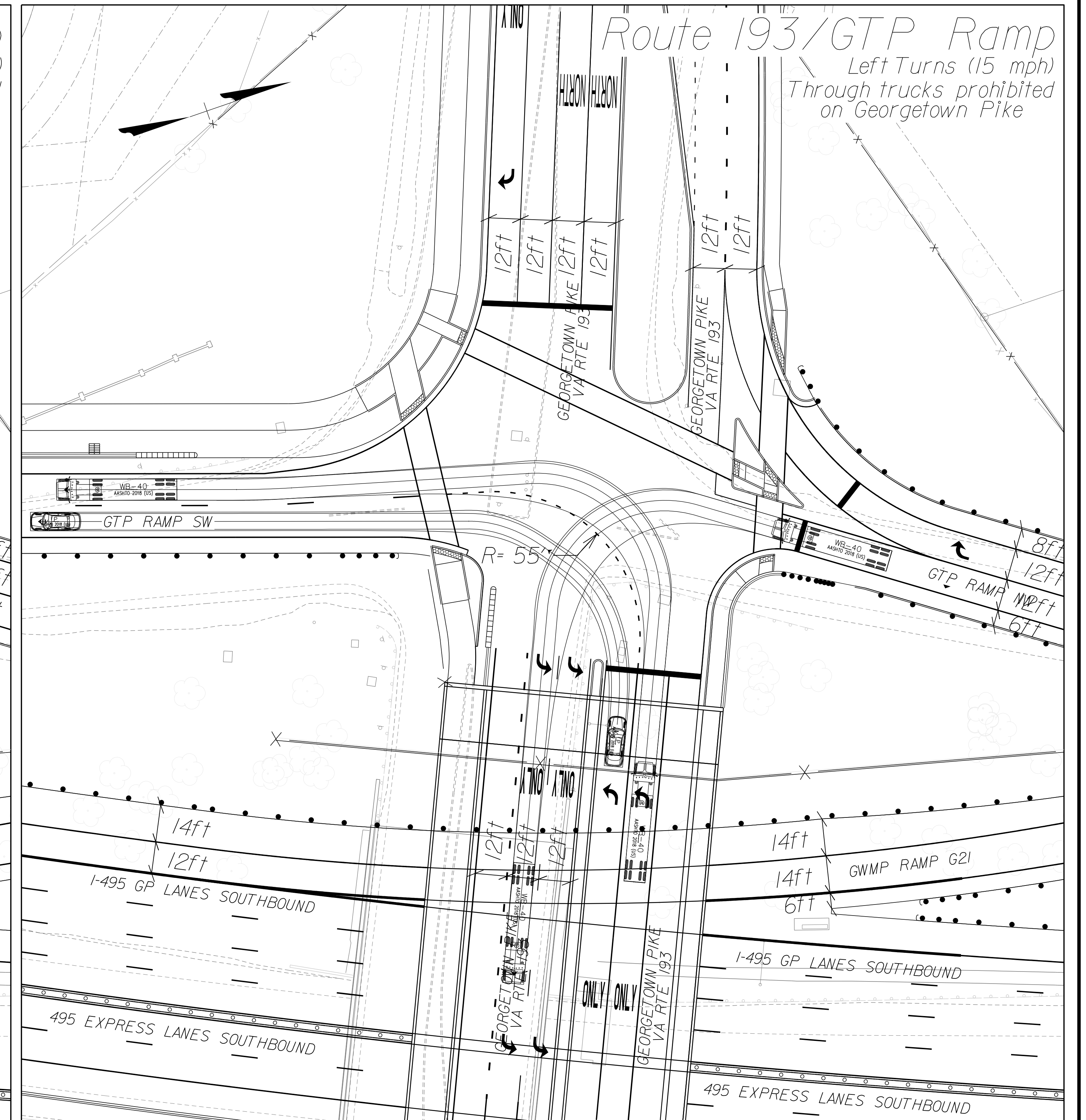
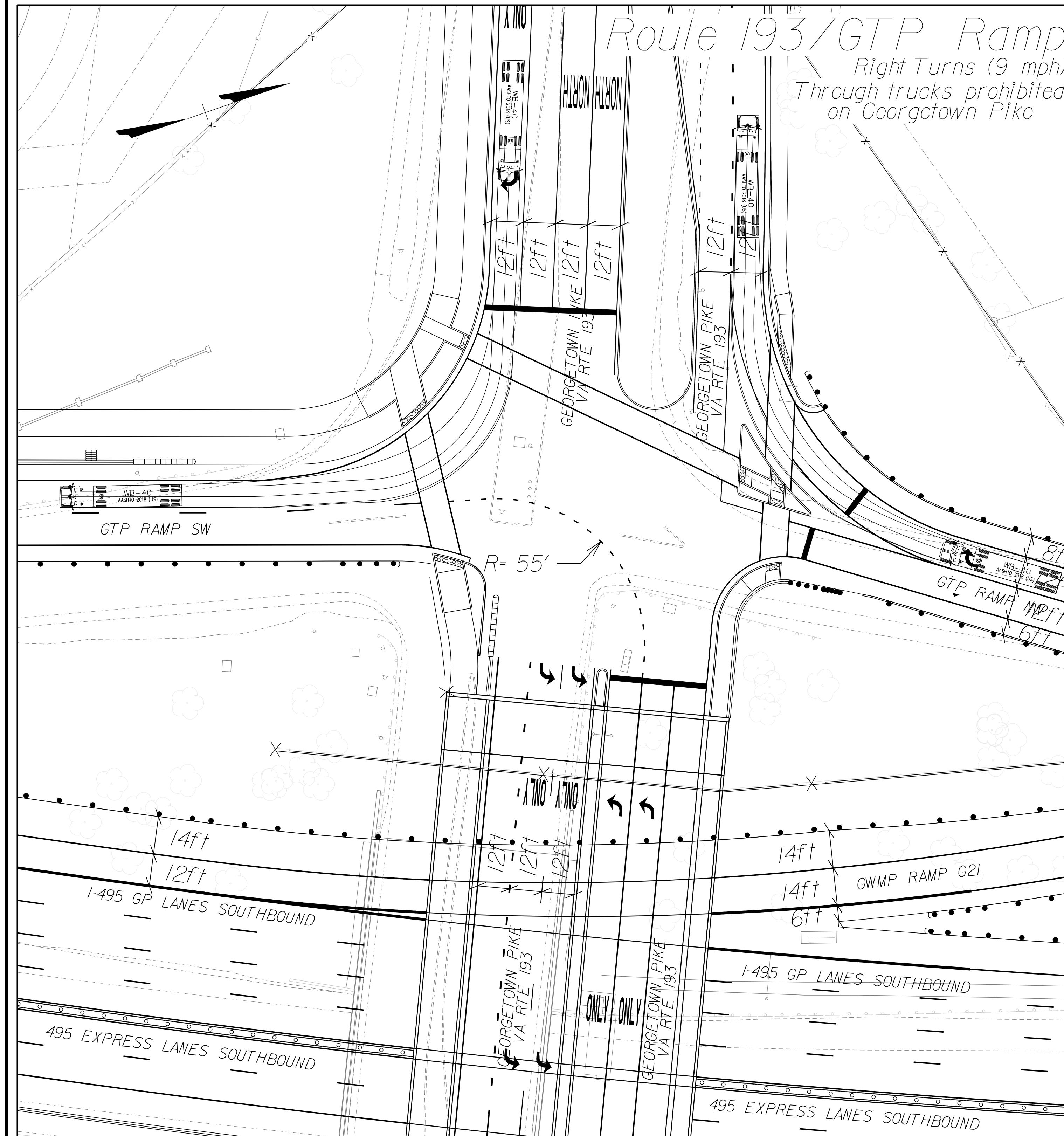


PROJECT MANAGER\_VDOT - Rupal Shah, P.E. (703) 259-2362  
 SURVEYED BY, DATE\_RDA - Nicholas Kaugaulis, LS (703) 334-0837, 12/2021  
 DESIGN BY\_RDA - Darrell Fischer, P.E. (703) 334-0823  
 Dewberry - Ron Jakomajch, P.E. (703) 849-0651  
 SUBSURFACE UTILITY BY, DATE\_Accurmark - Michael Taylor, LS (703) 635-3060, 12/2021

# AutoTURN Geometric Sheet

REVISED	STATE	ROUTE	STATE	VDOT PROJECT NO.	SHEET NO.
	VA.	495		0495-029-419 C501 RW201	25(1) AREA 3

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NOVA DISTRICT

10/6/2022

SCALE 0 25' 50'	VDOT PROJECT NO. 0495-029-419	SHEET NO. 25(1) AREA 3
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APPROVED FOR CONSTRUCTION

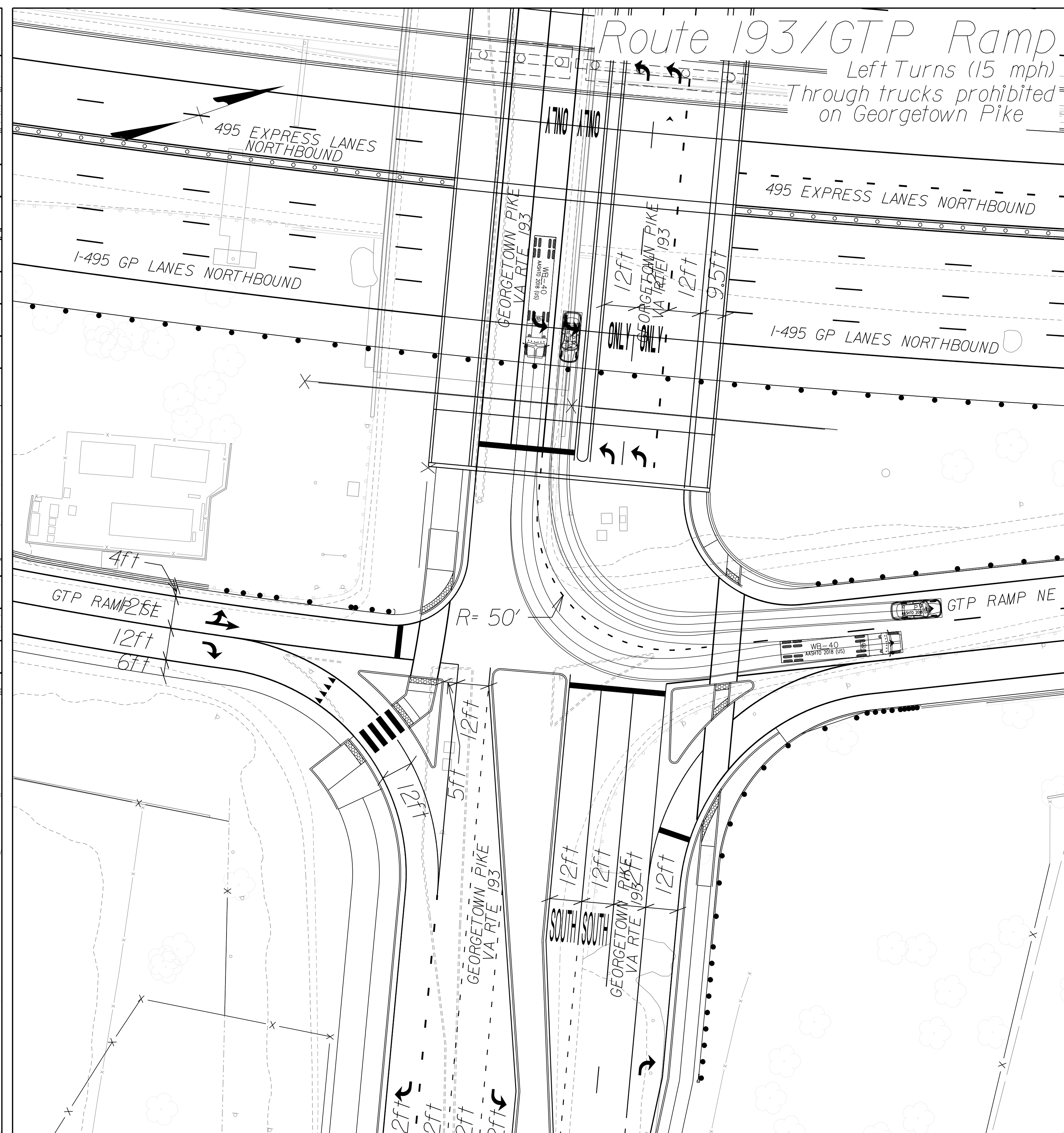
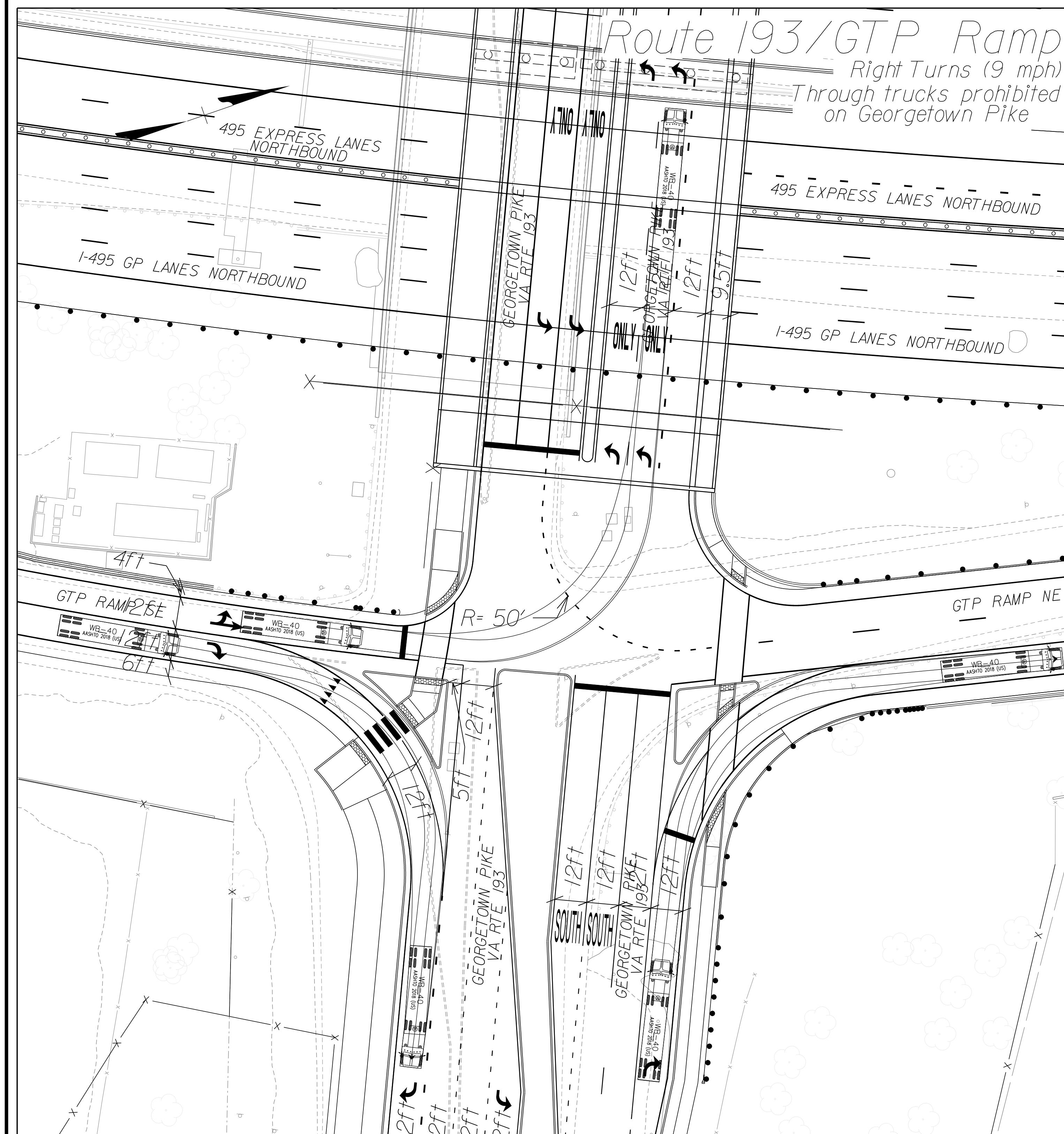


PROJECT MANAGER VDOT - Rupal Shah, PE, (703) 259-2362  
SURVEYED BY, DATE RDA - Nicholas Kaugaulis, LS, (703) 334-0837, 12/2021  
DESIGN BY RDA - Darrell Fischer, PE, (703) 334-0823  
Dewberry - Ron Jakomlitch, PE, (703) 849-0651  
SUBSURFACE UTILITY BY, DATE Accurmark - Michael Taylor, LS, (703) 635-3060,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

# AutoTURN Geometric Sheet

REVISED	STATE	ROUTE	STATE	VDOT PROJECT NO.	SHEET NO.
	VA.	495		0495-029-419 C501 RW201	2S(2) AREA 3

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

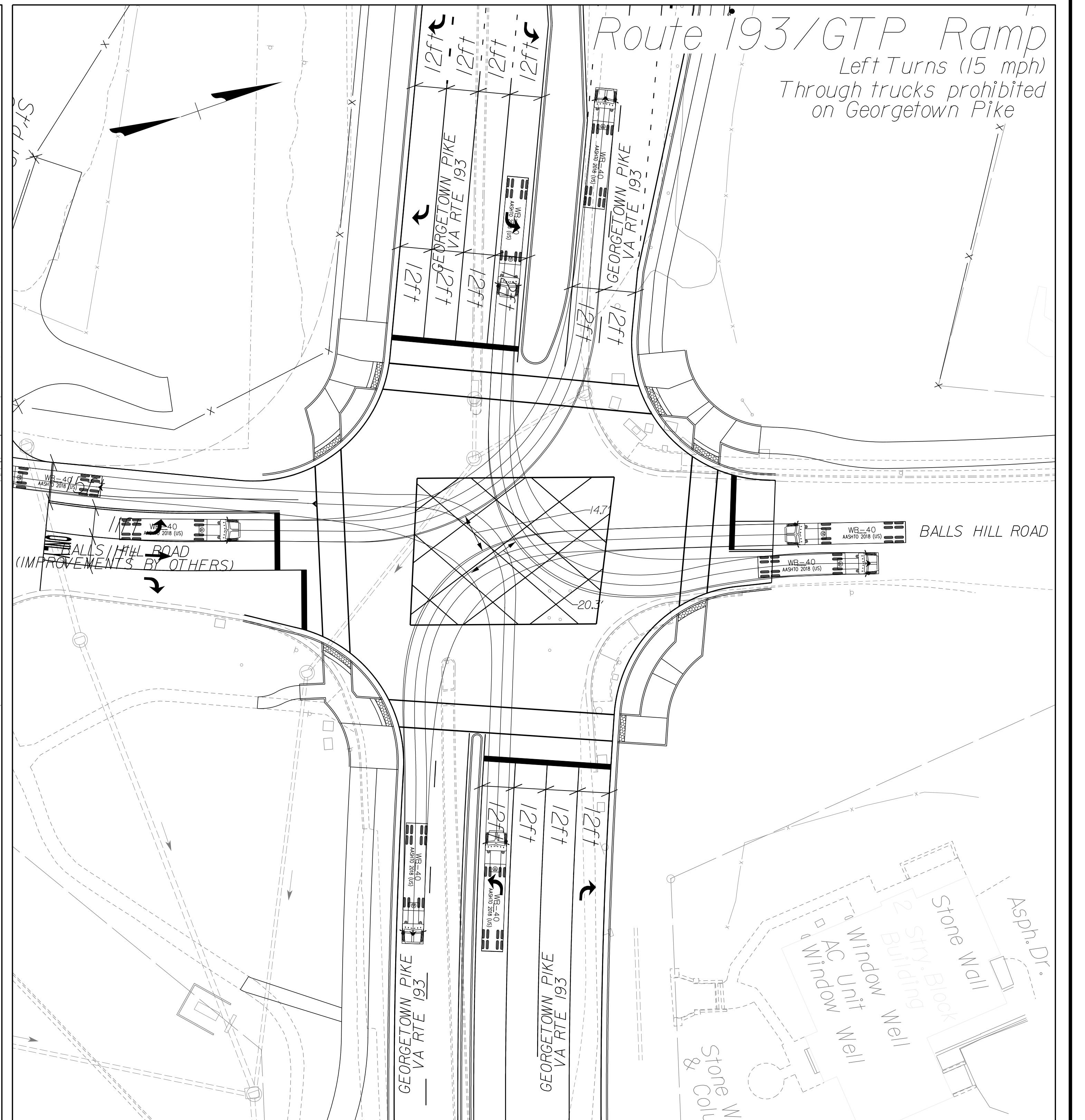
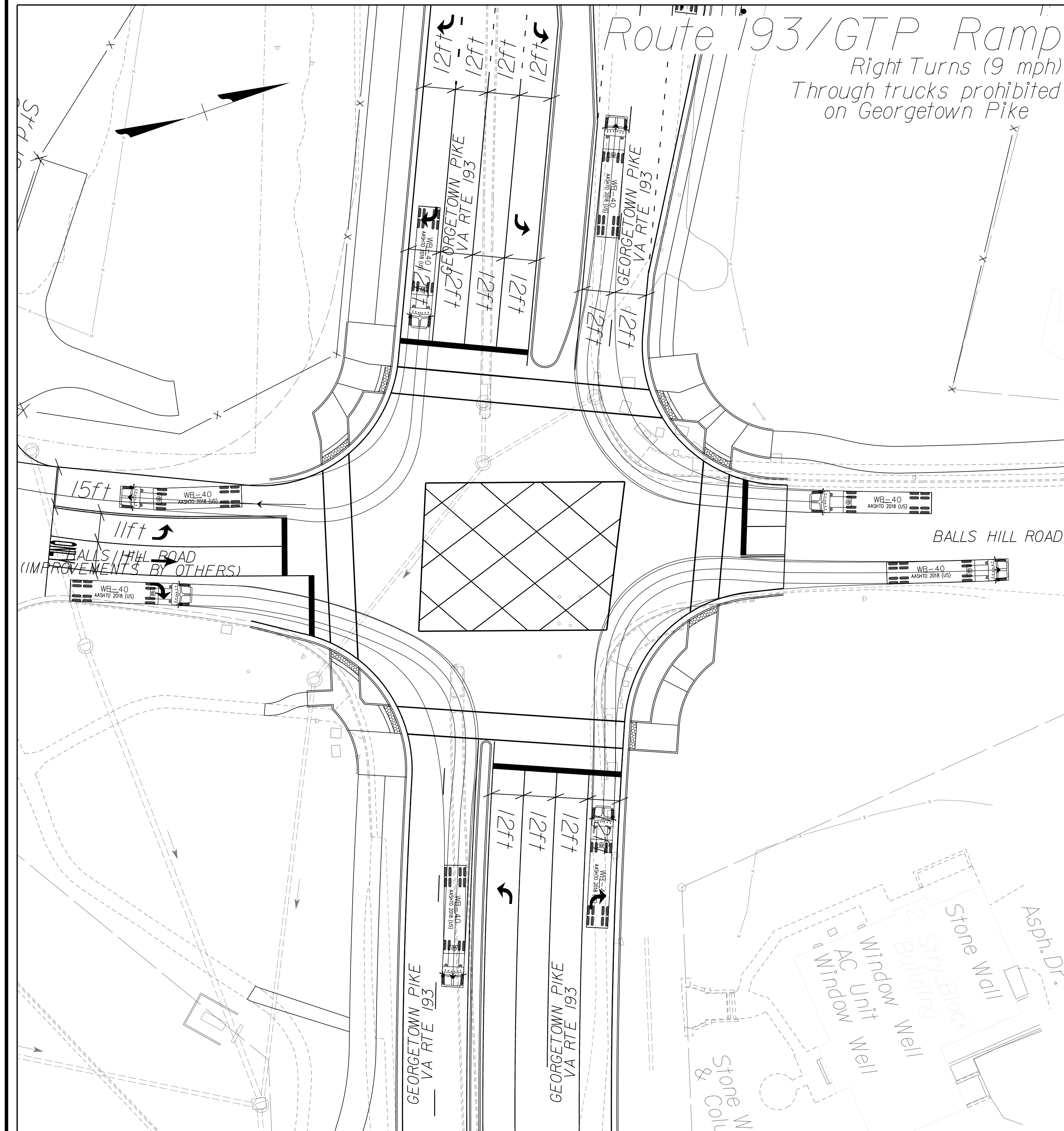


PROJECT MANAGER\_VDOT - Riprap, Shab, PE, (703) 259-2362  
 SURVEYED BY, DATE\_RDA - Nicholas, Kougoullis, LS, (703) 334-0837, 12/2021  
 DESIGN BY\_RDA - Darrell, Fischer, PE, (703) 334-0823  
 SUBSURFACE UTILITY BY, DATE\_Accumark - Michael, Taylor, LS, (703) 635-3060, 12/2021

# AutoTURN Geometric Sheet

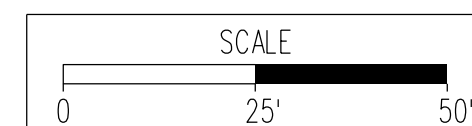
REVISED	STATE	ROUTE	STATE	VDOT PROJECT NO.	SHEET NO.
	VA.	495		0495-029-419 C501 RW201	2S(3) AREA 3

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

10/16/2022



VDOT PROJECT NO. 0495-029-419	SHEET NO. 2S(3) AREA 3
----------------------------------	------------------------------

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 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(4) AREA 3

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

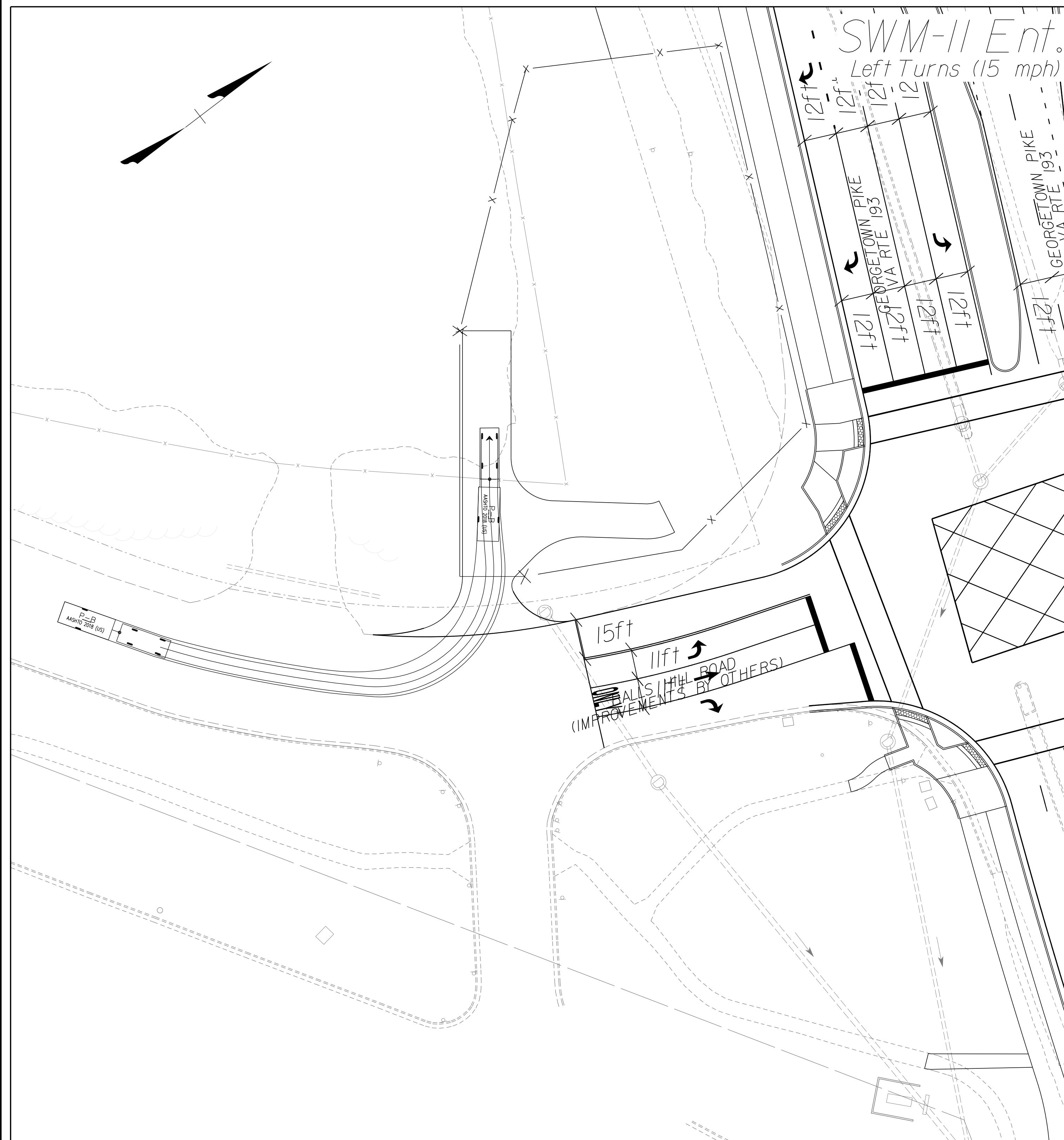


PROJECT MANAGER VDOT - Rupal Shah, P.E. (703) 259-2362  
SURVEYED BY, DATE RDA - Nicholas Kougoullis, LS (703) 334-0837, 12/2021  
DESIGN BY RDA - Darrell Fischer, P.E. (703) 334-0823  
Dewberry - Ron Jakomlitch, P.E. (703) 849-0651  
SUBSURFACE UTILITY BY, DATE Accurmark - Michael Taylor, LS (703) 635-3060,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

# AutoTURN Geometric Sheet

REVISED	STATE	ROUTE	STATE	VDOT PROJECT NO.	SHEET NO.
	VA.	495		0495-029-419 C501 RW201	2S(5) AREA 3

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

SCALE 0 25' 50'	VDOT PROJECT NO. 0495-029-419	SHEET NO. 2S(5) AREA 3
--------------------	----------------------------------	------------------------------

APPROVED FOR CONSTRUCTION



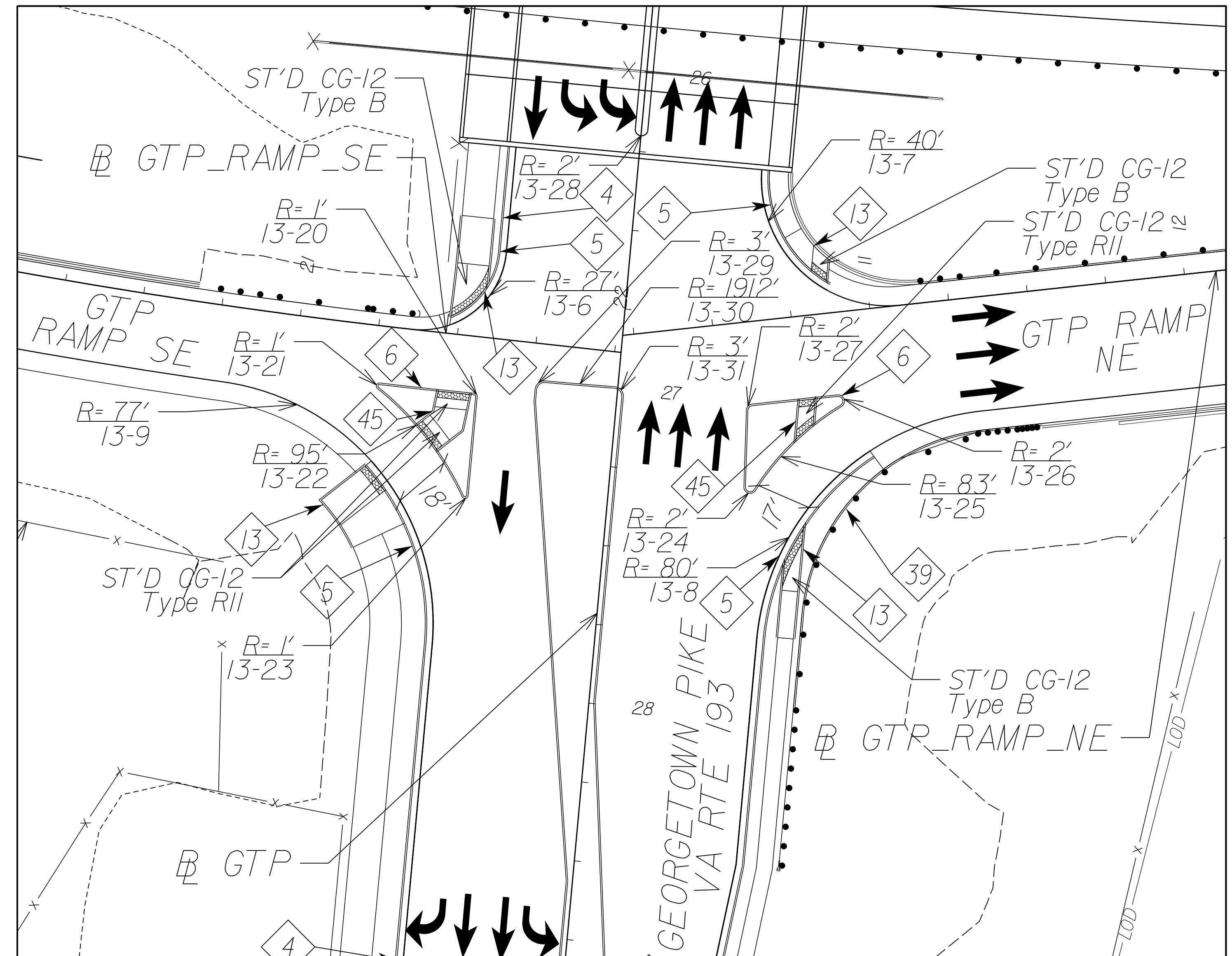
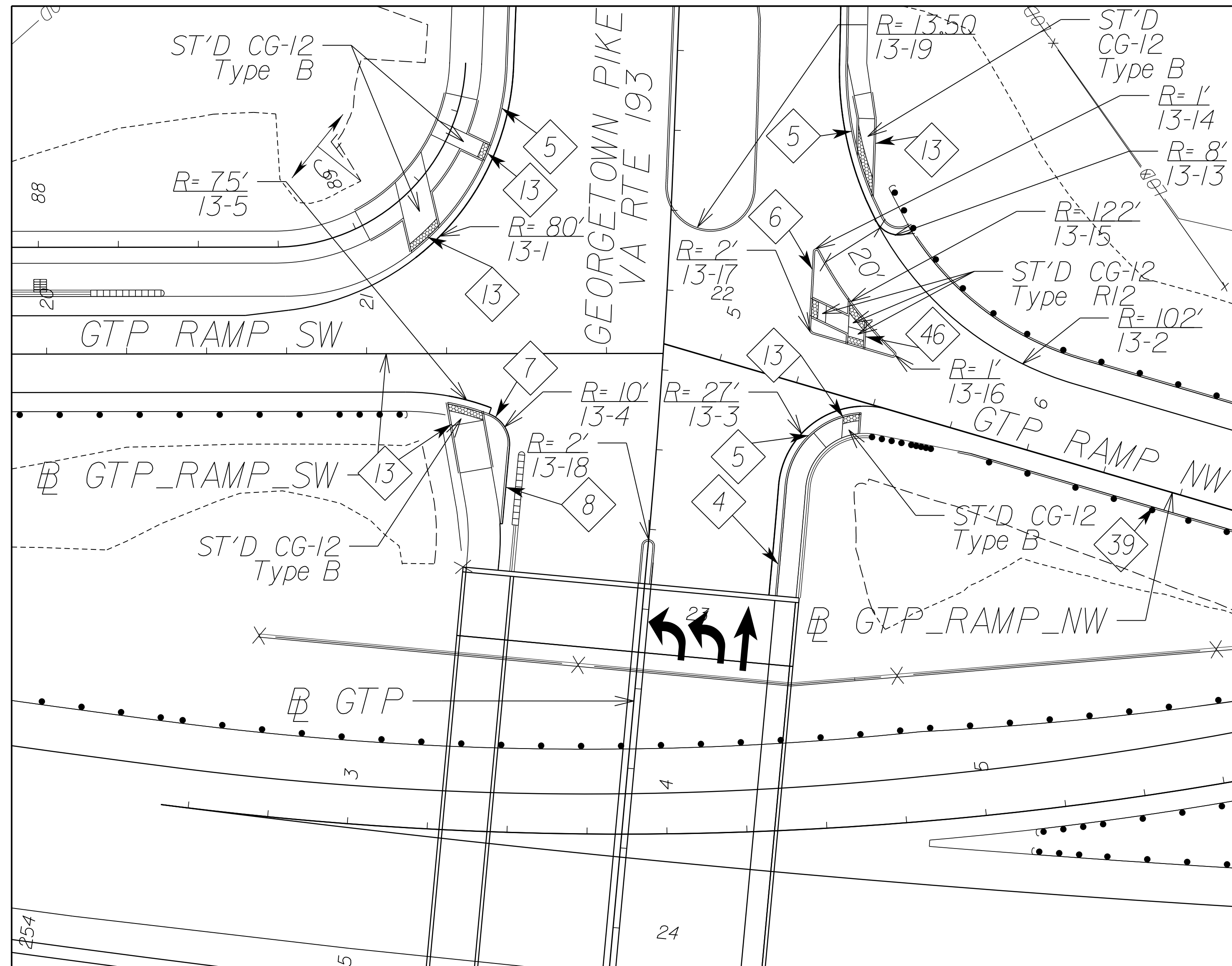
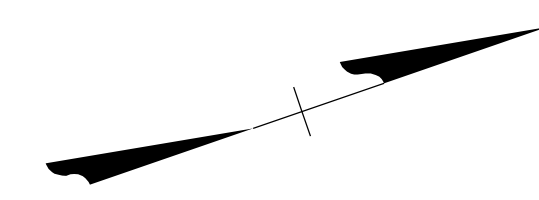
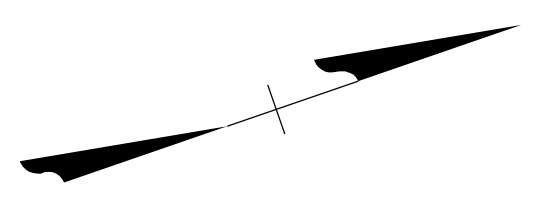
PROJECT MANAGER VDOT - Rupal Shah, P.E. (703) 259-2362  
 SURVEYED BY, DATE RDA - Nicholas Kougoullis, LS (703) 334-0837, 12/2021  
 DESIGN BY RDA - Darrell Fischer, P.E. (703) 334-0823  
 SUBSURFACE UTILITY BY, DATE Accumark - Michael Taylor, LS (703) 635-3060, 12/2021

# GTP DETAIL SHEET

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	2V AREA 3

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

SCALE 0 25' 50'

VDOT PROJECT NO. 0495-029-419

SHEET NO. 2V AREA 3

APPROVED FOR CONSTRUCTION



PROJECT MANAGER VDOT - *Ritapal 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 Jakomlitch, PE, (703) 849-0651*  
SUBSURFACE UTILITY BY, DATE *Accumark - Michael Taylor, LS, (703) 635-3060, 12/2021*

# Design Legend

REVISED	STATE	ROUTE	STATE	VDOT PROJECT NO.	SHEET NO.
	VA	495		0495-029-419 C501 RW201	22 AREA 3

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.
- C Denotes Construction Limits in Cuts
- F Denotes Construction Limits in Fills
- Denotes S'd. GR-MGS3 Req'd.
- Denotes Future Site Plan Design
- L0D Denotes Limits of Disturbance

### Pavement Legend

- Denotes 4" Mill & Resurface
- Denotes 1.5" Side Roads/Connections or 2" Mill & Resurface (Mainline)
- Denotes Full Depth Pavement
- Denotes Demolition of Pavement
- Denotes Existing PCC Pavement
- Denotes Limits of Obscuring of Pave./Dwy.
- Denotes Concrete Sidewalk
- Denotes Detectable Warning Surface

### Drainage Legend

- 1 Denotes UD-1 Req'd.
- 2 Denotes UD-2 Req'd.
- 3 Denotes UD-3 Req'd.
- 4 Denotes UD-4 Req'd.
- 5 Denotes CD-1 Req'd.
- 6 Denotes CD-2 Req'd.
- 7 Denotes Pipe/Structure to be Removed
- 8 Denotes Clean Pipe/Structure.
- 9 Denotes Plug and Abandon
- 10 Denotes S'd. PG-2A Req'd.
- 11 Denotes S'd. EW-12 Req'd.
- 12 Denotes UD-4 Mod. Req'd.
- 13 Denotes Connect to Pipe/Structure
- 14 Denotes ADA Compliant Structure Top Req'd.
- 15 Denotes Scupper Req'd. (See Bridge Plans For Details)
- 16 Denotes UD Outlet Pipe
- 17 Denotes S'd. PG-4 Req'd.
- 18 Denotes Repair Method B (Flexible Pipe Liner) Category C (Repair Bands) Req'd.
- 19 Denotes Repair Method B (Flexible Pipe Liner) Categories A, B, C, or D Req'd.
- 20 Denotes Repair Method B (Flexible Pipe Liner) Categories A, B, or D Req'd.
- 21 Denotes Repair Method B (Flexible Pipe Liner) Categories A or B Req'd.
- 22 Denotes Repurpose Pipe/Structure

### R/W Legend

- 1 Denotes Prop. Temp. Constr. Ease.
- 2 Denotes Prop. Temp. Constr. Ease. for Entrances & Parking Lots
- 3A Denotes Prop. Perm. Drainage Ease.
- 3B Denotes Prop. Perm. Drainage Slope Ease.
- 4A Denotes Prop. Dom. VZN, VDOT Utility 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.
- 4B Denotes Prop. Dom. Energy Utility Ease.
- 4C Denotes Prop. Dom. VDOT Utility Ease.

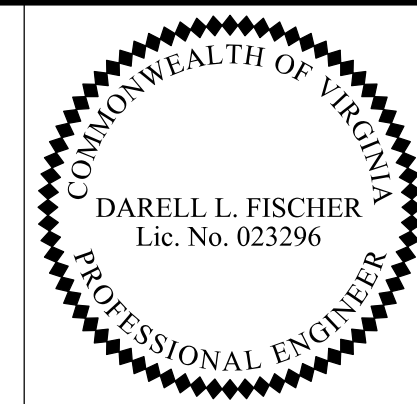
- Proposed Right of Way (R/W)
- Proposed Right of way Pluses and Offsets
- Proposed Permanent Ease.
- Proposed Perm. Ease, Pluses and Offsets
- Prop. Prop. Temp. Constr. Ease.
- Prop. Temp. Ease, Pluses and Offsets
- Prop. Communication Ease.
- Prop. Communication Ease, Pluses and Offsets
- Prop. Sewer 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

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 - 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 PE101 CS01 RW201 B636	10 AREA 3

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 Pariroo  
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 Slehrch  
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

SUSAN BOOTH CASSIDY &  
JAMES JOSEPH CASSIDY, JR.  
DB 9961 PG 1469  
44,667 SQ. FT  
TAX MAP\* 021-3 01 0035

SCOTT'S RUN HOMEOWNERS  
ASSOCIATION  
DB 5625 PG 1296  
545,905 SQ. FT  
TAX MAP\* 021-3 12 A

HAMID FALLAH-MOGHADDAM &  
TAHEREH GOLCHIN-NIKSIRAT  
DB 16948 PG 854  
5,644 AC.  
TAX MAP\* 021-3 07 0030A

WILLIAM F. JOHNSTON,  
TRUSTEE & WILLIAM F.  
JOHNSTON, JR., TRUSTEE  
DB 21856 PG 2125  
20,189 AC. (Per Tax Data)  
TAX MAP\* 021-3 10 C

JOSEPH T. BAKER &  
IRENE I. BAKER  
DB 18506 PG 1073  
27,238 SQ. FT  
TAX MAP\* 021-3 10 0054A

LESLIE MURPHY, TRUSTEE &  
DIANE E. MURPHY, TRUSTEE  
DB 24925 PG 1983 Ex. Storm Drainage Esmt.  
25,765 SQ. FT DB 2122 PG 10

CHARNG LIU &  
MARY DEEM  
DB 24663 PG 1269  
63,830 SQ. FT  
TAX MAP\* 021-3 01 0072C

RAJAL ZUMOT &  
KATHY M. ZUMOT  
DB 9155 PG 1818  
39,417 SQ. FT  
TAX MAP\* 021-3 01 0072B

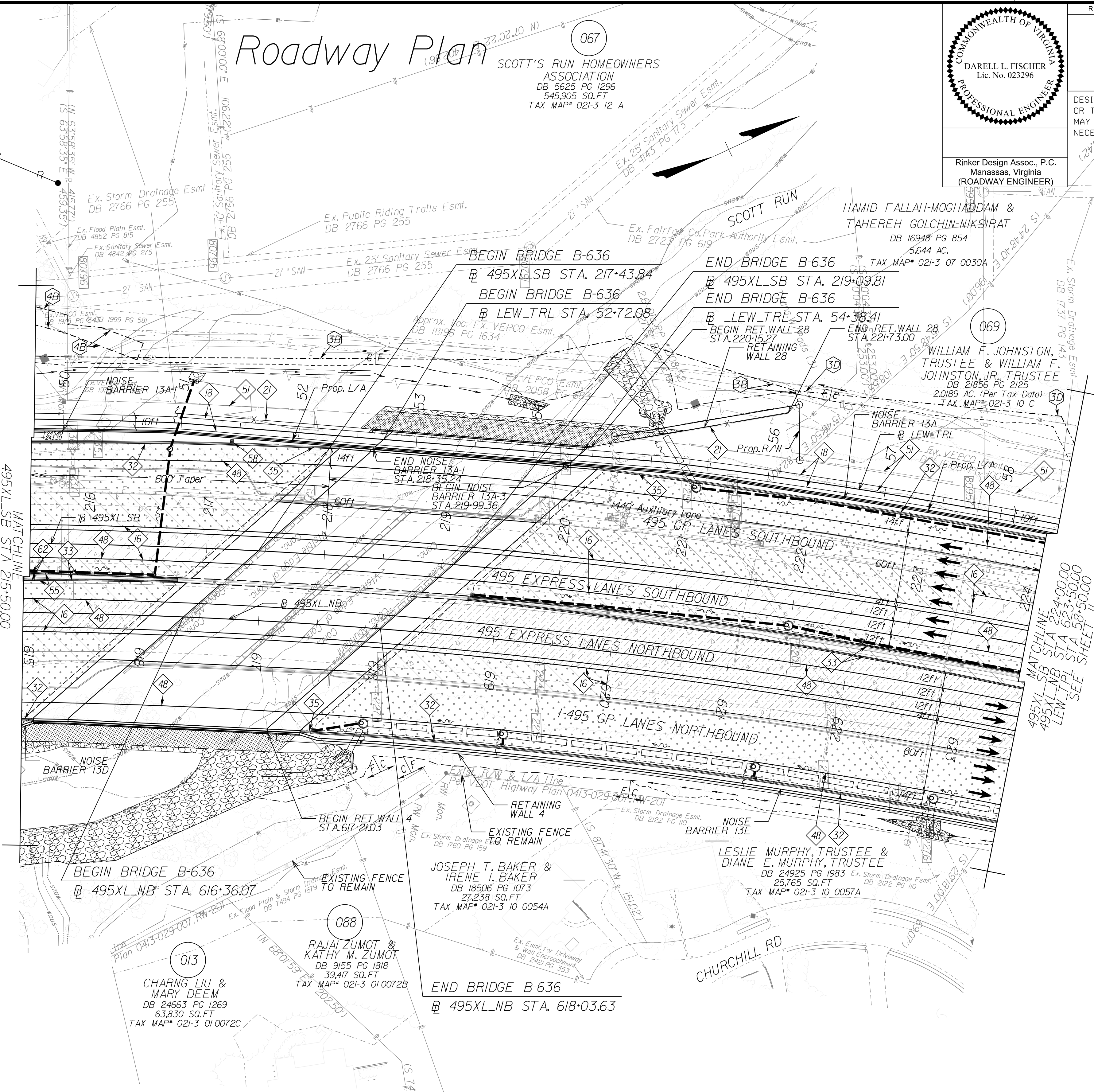
NOVA DISTRICT

10/9/2022

NOTE:  
SEE SHEET 2Z FOR RIGHT-OF-WAY AND DESIGN LEGENDS.

SEE AREA 2 FOR CONTINUITY

SEE SHEET 11



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(3)
Erosion Controls Ph1 & Ph2	1W(10), 1W(11)
Typical Sections	2A thru 2B(8)
Ditch Lining Typical Sections	2J
Drainage Descriptions	2K thru 2K(6)
Design Legend	2Z
Drainage Plan Sheet	10DRM
Right of Way Plan Sheet	10RW
Alignment Data Sheet	10A1
Profile 1-495 NB	10A
Profile 1-495 SB	10B
Profile Lewinsville SUP	10C

SCALE	VDOT PROJECT NO.	SHEET NO.
0 50' 100'	0495-029-419	10 AREA 3

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

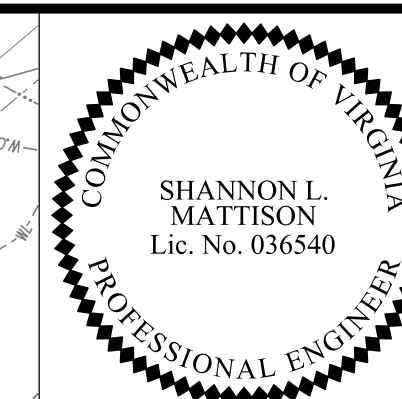
**UTILITY OWNERS**

- Fairfax Water Authority**  
Robert Cotton  
8570 Executive Park Ave., Fairfax, VA.  
703-289-6310
- County of Fairfax - Sewer**  
Asghar Pariroo  
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 Slehrch  
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

SUSAN BOOTH CASSIDY &  
JAMES JOSEPH CASSIDY, JR.  
DB 9961 PG 1469  
44,667 SQ.FT  
TAX MAP\* 021-3 01 0035

# Drainage Plan

SCOTT'S RUN HOMEOWNERS  
ASSOCIATION  
DB 5625 PG 1296  
545,905 SQ.FT  
TAX MAP\* 021-3 12 A

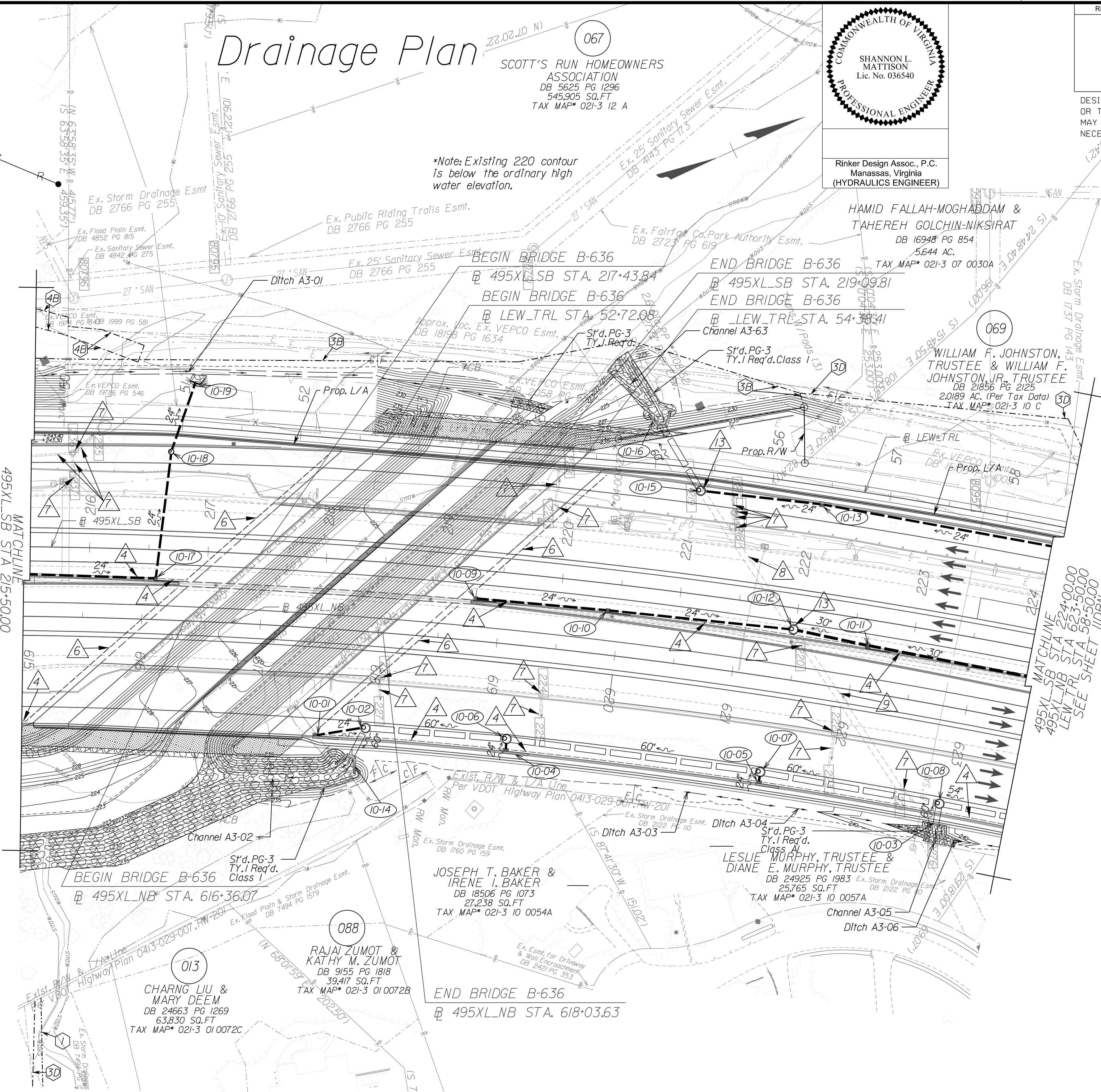


Rinker Design Assoc., P.C.  
Manassas, Virginia  
(HYDRAULICS ENGINEER)

HAMID FALLAH-MOGHADDAM &  
TAHEREH GOLCHIN-NIKSIRAT  
DB 16948 PG 854  
5,644 AC.  
TAX MAP\* 021-3 07 0030A

WILLIAM F. JOHNSTON, JR., TRUSTEE &  
WILLIAM F. JOHNSTON, JR., TRUSTEE  
DB 21856 PG 2125  
20,189 AC. (Per Tax Data)  
TAX MAP\* 021-3 10 C

\*Note: Existing 220 contour  
is below the ordinary high  
water elevation.



SEE AREA 2 FOR CONTINUITY

SEE SHEET 10DRN

NOTE:  
SEE SHEET 2Z FOR RIGHT-OF-WAY AND DESIGN LEGENDS.

REVISION	STATE	ROUTE	STATE	VDOT PROJECT NO.	SHEET NO.
	VA.	495		0495-029-419 FE101 CS01 RW201	10DRN AREA 3

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

**REFERENCES**  
(PROFILES, DETAIL & DRAINAGE DESCRIPTION SHEETS, ETC.)

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Existing Drainage Descriptions	1F(5) thru 1F(9)
Construction Geometrics	1G thru 1G(3)
Erosion Controls Ph1 & Ph2	1H(1), 1H(10)
Typical Sections	2A thru 2B(8)
Ditch Lining Typical Sections	2J
Drainage Descriptions	2K thru 2K(6)
Design Legend	27
Roadway Plan Sheet	10
Right of Way Plan Sheet	10RW
Alignment Data Sheet	10A1
Profile 1-495 NB	10A
Profile 1-495 SB	10B
Profile Lewinsville SUP	10C

SCALE	VDOT PROJECT NO.	SHEET NO.
0 50' 100'	0495-029-419	10DRN AREA 3

APPROVED FOR CONSTRUCTION

NOVA DISTRICT

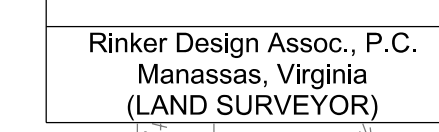


PROJECT MANAGER\_VDOT - Bitrapal,Shob,PE,(703) 259-2362  
 SURVEYED BY, DATE\_BDA - Nicholas, Kougoullis,LS,(703) 334-0837,1/2019  
 DESIGN BY\_BDA - Darrell Elischer,PE,(703) 334-0823  
 SUBSURFACE UTILITY BY, DATE\_Accumark - Mitchell,Taylor,LS,(703) 635-3060,12/2021

REVISED	STATE	ROUTE	STATE	VDOT PROJECT NO.	SHEET NO.
RW001 RW002	VA	495		0495-029-419 C501 RW201	10RW AREA 3

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

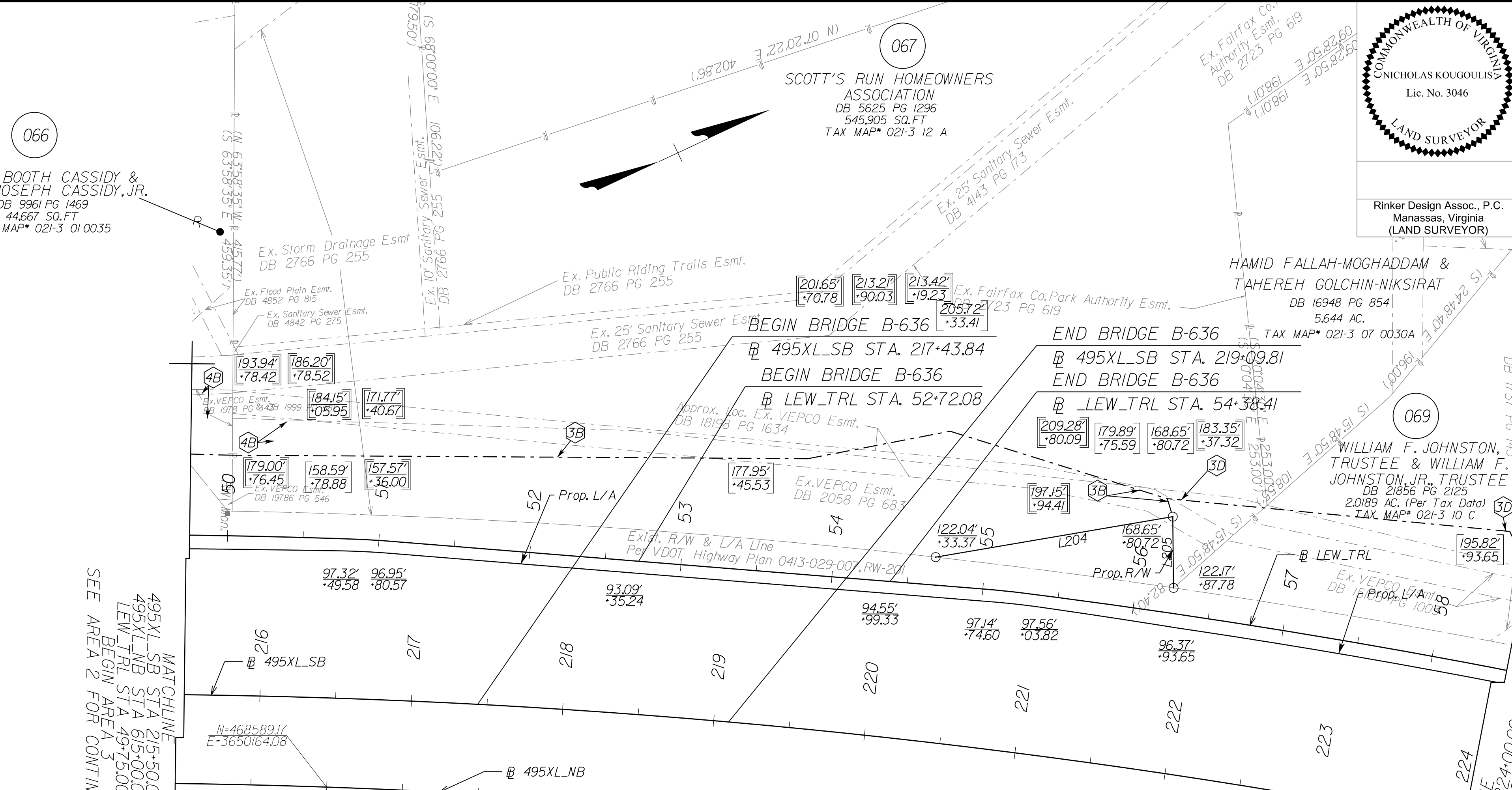
- (RW001) Revised parcels 066,067, and 069. See Sheet ID for details. Added easement labels per VDOT request.
- (RW002) Revised parcels 066 and 067. See Sheet ID for details.



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

Curve 495XL\_NB-7  
 PI = 621+95.39  
 DELTA = 15° 49' 26.95" (RT)  
 D = 113' 48"  
 T = 814.03'  
 L = 1,611.79'  
 R = 4,658.40'  
 PC = 613+81.36  
 PT = 629+93.15  
 DESIGN SPEED = 70 MPH  
 e = 2.00%, 4.00%  
 Lr = 484'

Curve 495XL\_SB-8  
 PI = 223+23.06  
 DELTA = 18° 28' 18.58" (RT)  
 D = 111' 37"  
 T = 780.52'  
 L = 1,547.49'  
 R = 4,800.00'  
 PCC = 215+42.54  
 PT = 230+90.03  
 DESIGN SPEED = 70 MPH  
 e = 2.00% (RC)  
 Lr = 473'



- 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'	PROPOSED RIGHT-OF-WAY/ LIMITED ACCESS
---	EXISTING PROPERTY LINE	(00.00') -12.34'	PROPOSED TEMPORARY EASEMENT
---	EXISTING R/W LINE	[00.00'] -12.34'	PROPOSED PERMANENT EASEMENT
---	CONSTRUCTION BASELINE	[00.00'] -12.34'	PROPOSED PERMANENT UTILITY EASEMENT
•	EXISTING PROPERTY MARKER	[00.00'] -12.34'	
•	SET RM-2 (SEE NOTES)	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.PERM. DRAINAGE EASE.
- 3B DENOTES PROP.PERM. DRAINAGE SLOPE EASE.
- 3C DENOTES PROP.PERM. DRAINAGE WALL EASE.
- 3D DENOTES PROP.PERM. SLOPE EASE.
- 4 DENOTES PROP.VDOT UTILITY EASE.
- 4A Denotes Prop.Dom.VZN,VDOT Utility Ease.
- 4B Denotes Prop.Dom.Energy Utility Ease.

LINE DATA TABLE (FT)

LINE NO.	BEARING	DIST.
L204	N15°18'33"E	158.79'
L205	S65°35'47"E	47.04'

APPROXIMATE AREAS

PROJECT ASSIGNED PARCEL NO.	TOTAL		FEE REMAINDER	DOM.ENERGY UTILITY	EASEMENT					
	ACRES	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.
013	SEE A2	SEE A2	SEE A2	SEE A2	SEE A2	SEE A2	SEE A2	SEE A2	SEE A2	SEE A2
066	1.025	-	1.025	3,314	-	8,540	-	1,786	-	-
067	12.532	3,621	12,449	871	-	30,089	-	17,853	609	-
069	2.019	-	2,019	-	-	-	-	-	-	-
088	SEE A2	SEE A2	SEE A2	SEE A2	SEE A2	SEE A2	SEE A2	SEE A2	SEE A2	SEE A2

APP. FOR ROW



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

**Curve LEW\_TRL2**  
 PI = 50+24.35  
 DELTA = 1° 22' 55.89" (RT)  
 D = 110' 05"  
 T = 59.17'  
 L = 118.34'  
 R = 4,905.37'  
 PCC = 49+65.18  
 PCT = 50+83.52  
 DESIGN SPEED = 18 MPH  
 e = 2.00% (RC)  
 Lr = N/A

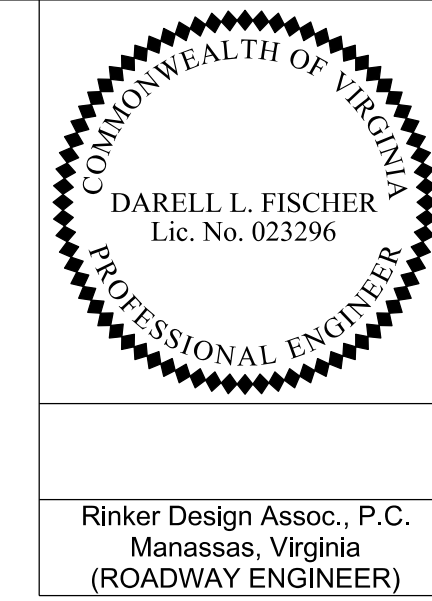
**Curve LEW\_TRL3**  
 PI = 50+95.95  
 DELTA = 2° 35' 25.60" (RT)  
 D = 10' 25' 03"  
 T = 12.44'  
 L = 24.87'  
 R = 550.00'  
 PCC = 50+83.52  
 PCT = 51+08.39  
 DESIGN SPEED = 18 MPH  
 e = 2.00% (RC)  
 Lr = N/A

**Curve LEW\_TRL4**  
 PI = 55+14.51  
 DELTA = 2° 35' 25.60" (RT)  
 D = 10' 25' 03"  
 T = 12.44'  
 L = 24.87'  
 R = 550.00'  
 PCC = 55+02.08  
 PCT = 55+26.94  
 DESIGN SPEED = 18 MPH  
 e = 2.00% (RC)  
 Lr = N/A

# Alignment Data

**Curve LEW\_TRL5**  
 PI = 57+58.33  
 DELTA = 5° 24' 04.42" (RT)  
 D = 110' 05"  
 T = 231.38'  
 L = 462.43'  
 R = 4,905.37'  
 PCC = 55+26.94  
 PCT = 59+89.37  
 DESIGN SPEED = 18 MPH  
 e = 2.00% (RC)  
 Lr = N/A

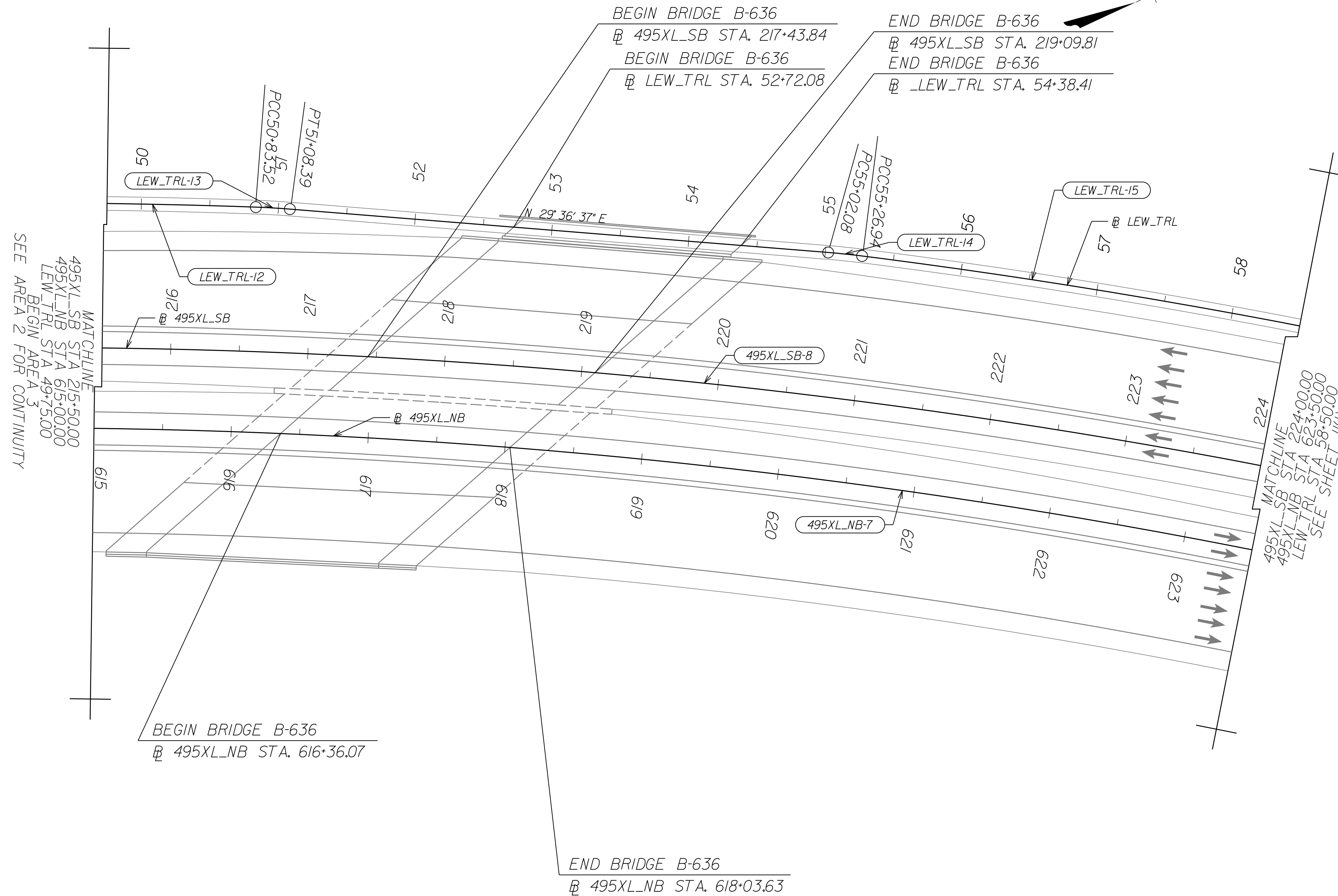
**Curve 495XL-SB-8**  
 PI = 223+23.06  
 DELTA = 18° 28' 18.58" (RT)  
 D = 111' 37"  
 T = 780.52'  
 L = 1,547.49'  
 R = 4,800.00'  
 PCC = 215+42.54  
 PCT = 230+90.03  
 DESIGN SPEED = 70 MPH  
 e = 2.00% (RC)  
 Lr = 473'



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	10(1) AREA 3

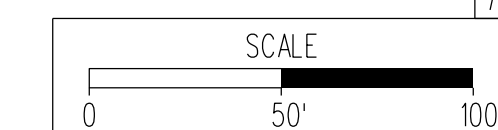
DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT



**Curve 495XL-NB-7**  
 PI = 62+95.39  
 DELTA = 19° 49' 26.95" (RT)  
 D = 113' 48"  
 T = 814.03'  
 L = 1,611.79'  
 R = 4,658.40'  
 PC = 613+81.36  
 PT = 629+93.15  
 DESIGN SPEED = 70 MPH  
 e = 2.00%, 4.00%  
 Lr = 484'

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(3)
Erosion Controls Ph1 & Ph2	1W(10), 1W(11)
Typical Sections	2A thru 2B(8)
Ditch Lining Typical Sections	2J
Drainage Descriptions	2K thru 2K(6)
Design Legend	2Z
Roadway Plan Sheet	10
Drainage Plan Sheet	10DRW
Right of Way Plan Sheet	10RW
Profile 1-495 NB	10A
Profile 1-495 SB	10B
Profile Lewisville SUP	10C



VDOT PROJECT NO.	0495-029-419	SHEET NO.	10(1)
		AREA	3

APPROVED FOR CONSTRUCTION

NOVA DISTRICT



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\_Accumarck - Michele Taylor LS, (703) 635-3060, 12/2021

# 495 Express Lanes Northbound

SHANNON L. MATTISON  
Lic. No. 036540  
PROFESSIONAL ENGINEER

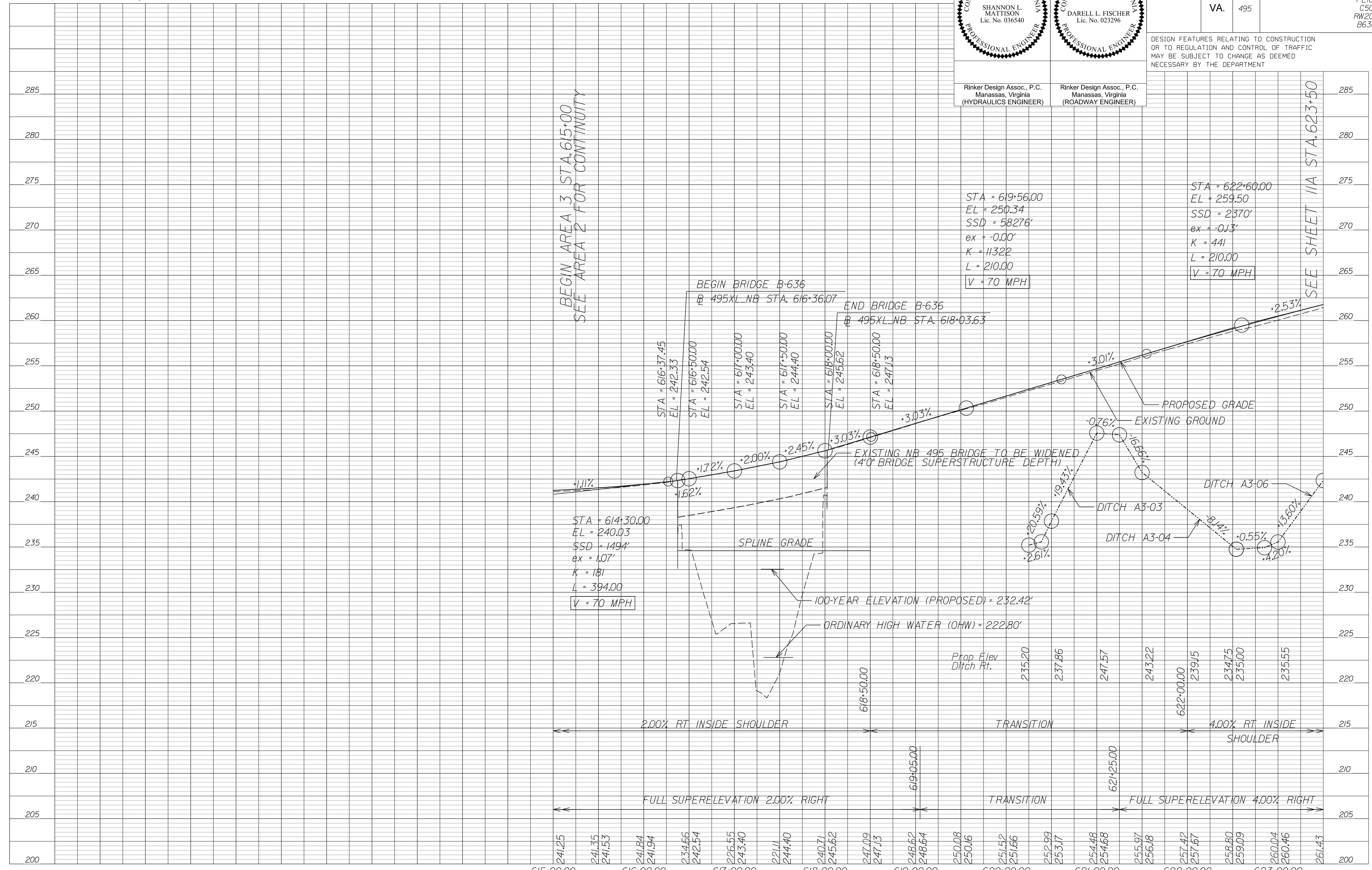
DARELL L. FISCHER  
Lic. No. 023296  
PROFESSIONAL ENGINEER

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 PE101 CS01 RW201 B636	10A AREA 3

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

10/16/2022

APPROVED FOR CONSTRUCTION

SCALE: HORIZ: 1"=50', VERT: 1"=5'

VDOT PROJECT NO. 0495-029-419

SHEET NO. 10A AREA 3



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 BY, DATE\_Accumar k - Michael Taylor LS, (703) 635-3060, 12/2021

# 495 Express Lanes Southbound

SHANNON L. MATTISON  
Lic. No. 036540  
PROFESSIONAL ENGINEER

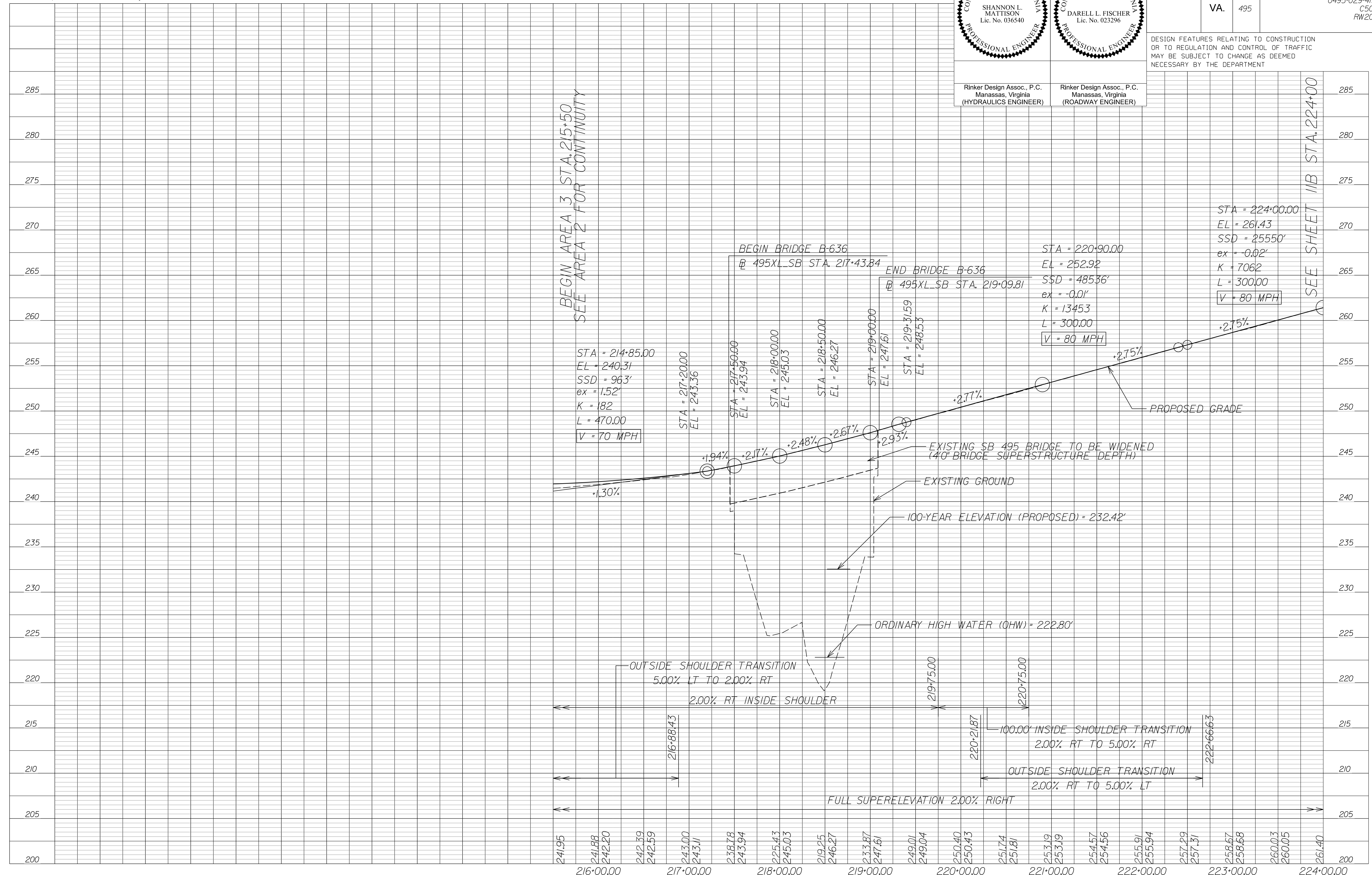
DARELL L. FISCHER  
Lic. No. 023296  
PROFESSIONAL ENGINEER

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	10B AREA 3

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

10/16/2022

APPROVED FOR CONSTRUCTION

SCALE: HORIZ: 1"=50' VERT: 1"=5'

VDOT PROJECT NO. 0495-029-419

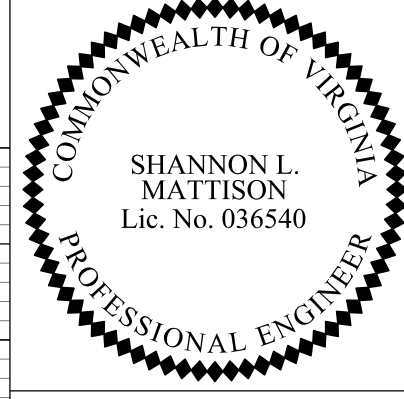
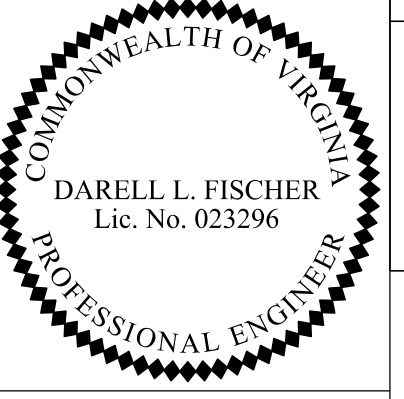
SHEET NO. 10B AREA 3



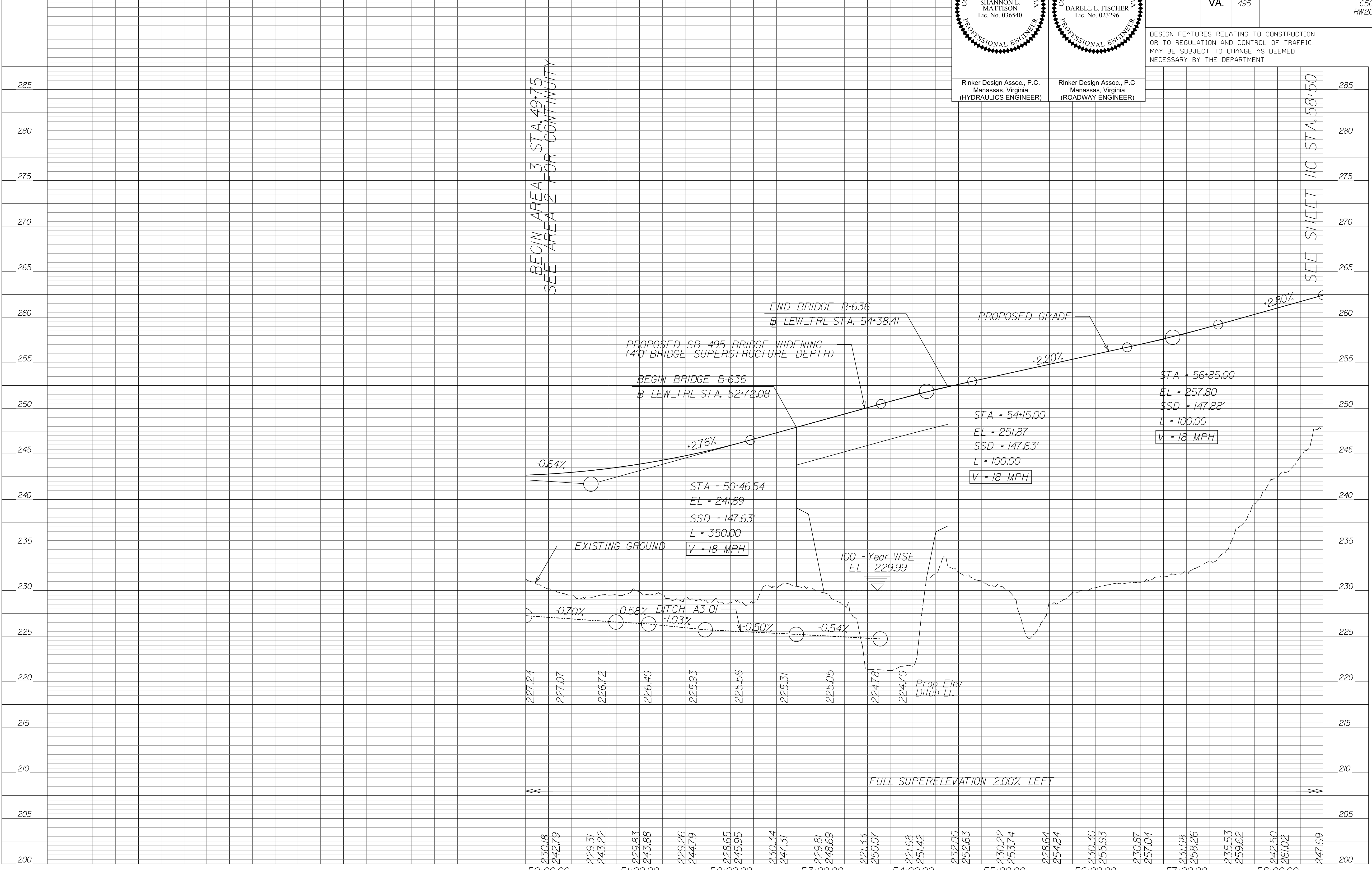
# Lewinsville Shared Use Path

PROJECT MANAGER\_VDOT - Rimpal Stab PE (703) 259-2362  
SURVEYED BY\_DATE\_BDA - Nicholas Kougoullis LS (703) 334-0837 12/2021  
DESIGN BY\_BDA - Dorell Elischer PE (703) 334-0823  
SUBSURFACE UTILITY BY\_DATE\_Accumark - Michael Taylor LS (703) 635-3060 12/2021

50,000 ft / In.  
Plotted By: hthornhill

 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)
		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 C501 RW201	10C AREA 3



NOVA DISTRICT

10/16/2022

APPROVED FOR CONSTRUCTION

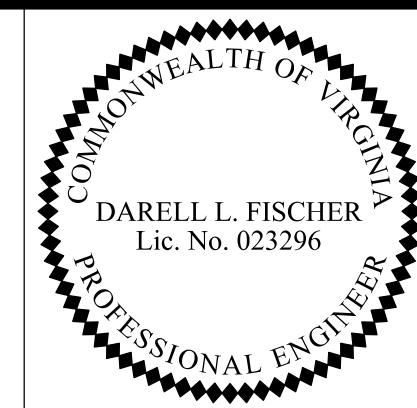
SCALE: HORIZ: 1"=50', VERT: 1"=5'

VDOT PROJECT NO. 0495-029-419

SHEET NO. 10C AREA 3



PROJECT MANAGER VDOT - Rinaldi, S. PE, (703) 259-2362  
SURVEYED BY, DATE RDA - Nicholas, K. (703) 334-0837, 12/2021  
DESIGN BY RDA - Dorell, F. PE, (703) 334-0823  
SUBSURFACE UTILITY BY, DATE Accumark - Michael, J. PE, (703) 635-3060, 12/2021

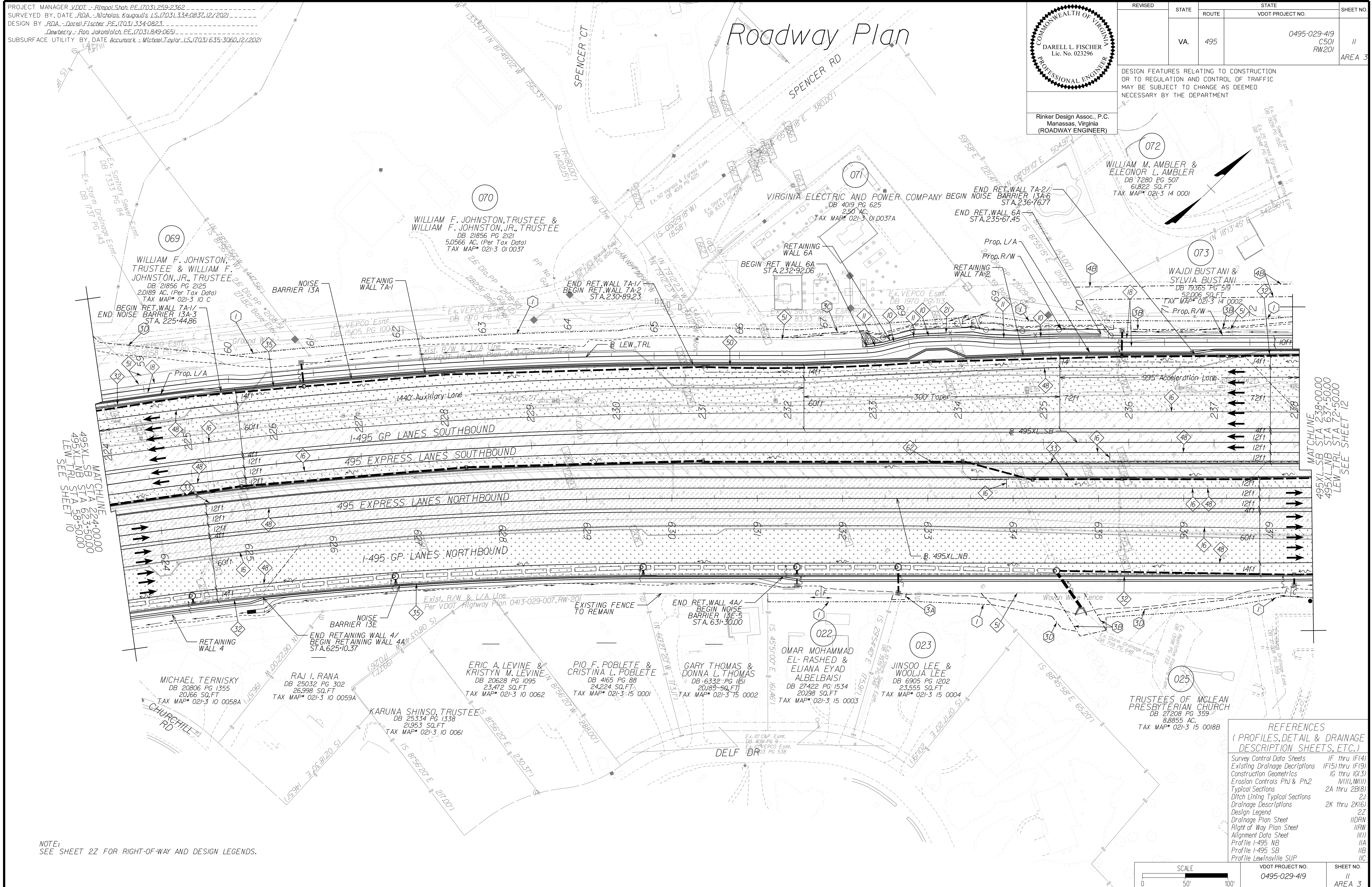


Rinker Design Assoc., P.C.  
Manassas, Virginia  
(ROADWAY ENGINEER)

REVISED	STATE	ROUTE	STATE	VDOT PROJECT NO.	SHEET NO.
	VA.	495		0495-029-419 C501 RW201	II AREA 3

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



MATCHLINE  
495XL SB STA 224+00.00  
495XL NB STA 623+50.00  
LEW\_TRL STA 58+50.00  
SEE SHEET 10

MATCHLINE  
495XL SB STA 239+00.00  
495XL NB STA 93+50.00  
LEW\_TRL STA 72+50.00  
SEE SHEET 12

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(3)
Erosion Controls Ph1 & Ph2	M(1), M(1)
Typical Sections	2A thru 2B(8)
Ditch Lining Typical Sections	2J
Drainage Descriptions	2K thru 2K(6)
Design Legend	2Z
Drainage Plan Sheet	IIDRW
Right of Way Plan Sheet	IIRW
Alignment Data Sheet	IIA
Profile 1-495 NB	IIA
Profile 1-495 SB	IIA
Profile Lewisville SUP	IIA

NOTE:  
SEE SHEET 22 FOR RIGHT-OF-WAY AND DESIGN LEGENDS.

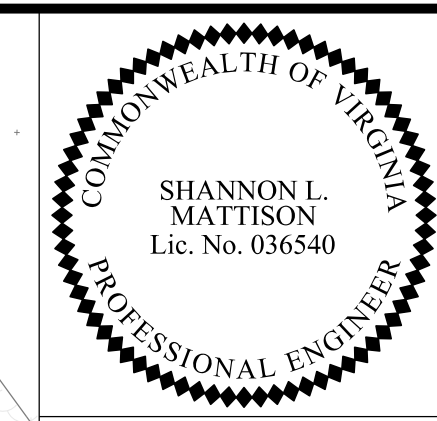
SCALE 0 50' 100'	VDOT PROJECT NO. 0495-029-419	SHEET NO. II AREA 3
---------------------	----------------------------------	---------------------------

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

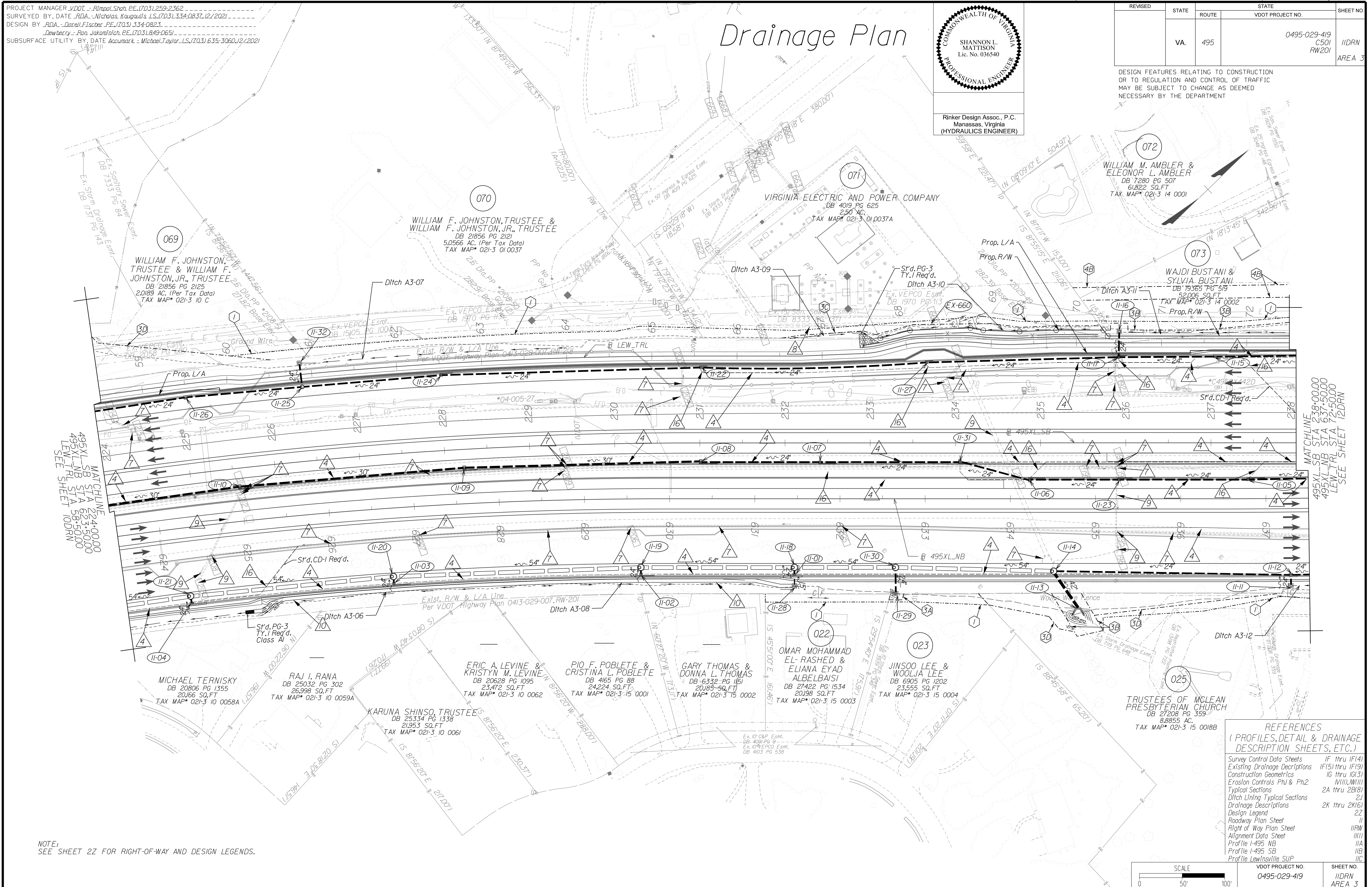
# Drainage Plan



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	IIDRN AREA 3

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 224+00.00  
 495XL NB STA 623+50.00  
 LEW TRL STA 58+50.00  
 SEE SHEET 10DRN

MATCHLINE  
 495XL SB STA 239+00.00  
 495XL NB STA 93+50.00  
 LEW TRL STA 72+50.00  
 SEE SHEET 12DRN

NOVA DISTRICT

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(3)
Erosion Controls Ph1 & Ph2	M(11), M(11)
Typical Sections	2A thru 2B(8)
Ditch Lining Typical Sections	2J
Drainage Descriptions	2K thru 2K(6)
Design Legend	27
Roadway Plan Sheet	II
Right of Way Plan Sheet	II RW
Alignment Data Sheet	III(1)
Profile 1-495 NB	IIA
Profile 1-495 SB	II B
Profile Lewinsville SUP	II C

SCALE	VDOT PROJECT NO.	SHEET NO.
0 50' 100'	0495-029-419	IIDRN AREA 3

APPROVED FOR CONSTRUCTION



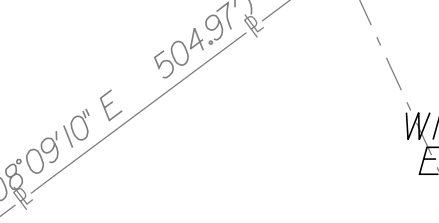
PROJECT MANAGER VDOT - Bitrapal,Shob.PE,(703) 259-2362  
 SURVEYED BY, DATE BDA - Nicholas, Kougoulis, L.S.(703) 334-0837, 1/2019  
 DESIGN BY BDA - Darrell Elischer, PE,(703) 334-0823  
 SUBSURFACE UTILITY BY, DATE Accurmark - Michael Taylor, L.S.(703) 635-3060, 12/2021

REVISED	STATE	ROUTE	STATE	VDOT PROJECT NO.	SHEET NO.
RW001 RW002	VA	495		0495-029-419 C501 RW201	11RW AREA 3

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

(RW001) Revised parcels 069,071,072, and 073. See Sheet ID for details. Added easement labels per VDOT request.

(RW002) Revised parcels 072. See Sheet ID for details.



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

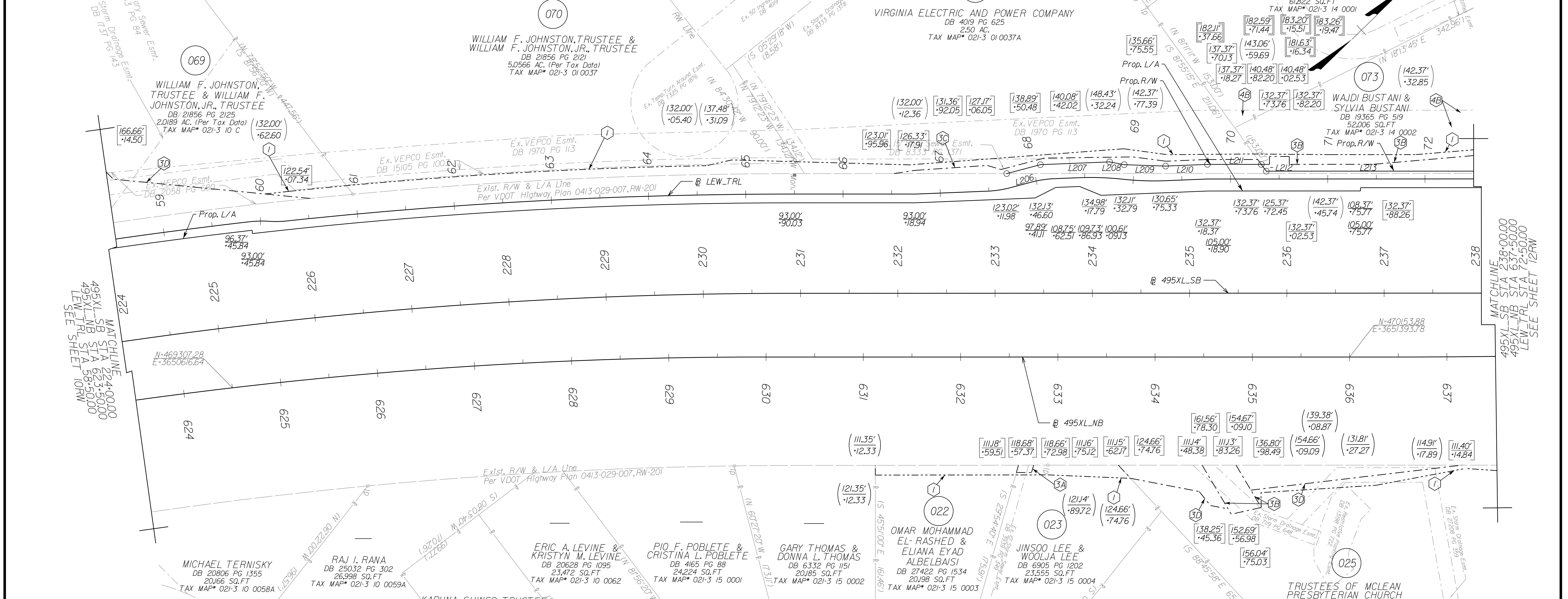
- GENERAL NOTES:
1. SAID PROPERTY LINES ARE BEST FIT BASED ON COMPILED DATA AND DO NOT REPRESENT A BOUNDARY SURVEY.
  2. ALL AREAS SHOWN ARE APPROXIMATE ONLY.
  3. THIS PLAN SHEET WAS PREPARED WITHOUT THE BENEFIT OF A TITLE REPORT AND MAY NOT SHOW ALL EASEMENTS WHICH MAY AFFECT THE PROPERTY HEREON.
  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.

LINE NO.	BEARING	DIST.
L206	N29°21'24"E	35.80'
L207	N41°49'08"E	71.25'
L208	S54°56'16"W	15.27'
L209	S46°04'54"W	42.57'
L210	S41°49'08"W	43.07'
L211	N44°06'34"E	55.39'
L212	S8°51'16"E	8.65'
L213	S44°06'34"W	263.52'

Curve 495XL-SB-8  
 PI = 223+23.06  
 DELTA = 18° 28' 18.58" (RT)  
 D = 111' 37"  
 T = 780.52'  
 L = 1547.49'  
 R = 4,800.00'  
 PCC = 215+42.54  
 PT = 230+90.03  
 DESIGN SPEED = 70 MPH  
 e = 2.00% (RC)  
 Lr = 47.3'

Curve 495XL-NB-7  
 PI = 621+95.39  
 DELTA = 19° 49' 26.95" (RT)  
 D = 113' 48"  
 T = 814.03'  
 L = 1611.79'  
 R = 4,658.40'  
 PC = 613+81.36  
 PT = 629+93.5  
 DESIGN SPEED = 70 MPH  
 e = 2.50%, 4.00%  
 Lr = 48.4'

Curve 495XL-NB-8  
 PI = 639+52.66  
 DELTA = 4° 30' 21.00" (LT)  
 D = 0' 44' 17"  
 T = 305.37'  
 L = 610.42'  
 R = 7,762.00'  
 PC = 636+47.30  
 PT = 642+57.71  
 DESIGN SPEED = 70 MPH  
 e = 2.80%  
 Lr = 308' (PC), 154' (PCC)



PROJECT ASSIGNED PARCEL NO.	TOTAL AREA		PROP. R/W SQ.FT.	FEE REMAINDER ACRES	EASEMENT						
	ACRES	SQ.FT.			DOM. ENERGY UTILITY SQ.FT.	VDOT UTILITY SQ.FT.	PERMANENT				TEMP. CONSTR.
							DRAINAGE SQ.FT.	DRAIN. SLOPE SQ.FT.	DRAIN. WALL SQ.FT.	SLOPE SQ.FT.	SLOPES SQ.FT.
022	0.464	-	0.464	-	-	-	-	-	-	1,458	-
023	0.541	-	0.541	-	-	-	117	-	-	1,114	-
025	8.886	-	8,886	-	-	-	1,639	-	5,084	2,561	-
069	2,019	-	2,019	-	-	-	-	-	17,853	609	-
070	5,057	-	5,057	-	-	-	-	-	-	4,648	-
071	2,500	2,333	2,446	-	-	-	-	2,066	-	3,469	-
072	1,419	-	-	-	206	-	-	-	-	-	-
073	1,194	2,054	1,147	-	5,941	-	-	3,707	624	2,946	-

LEGEND

- 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
- 1 DENOTES PROP. TEMP. CONSTR. EASE. FOR SLOPES
- 2 DENOTES PROP. TEMP. CONSTR. EASE. FOR ENTRANCES & PARKING LOTS
- 3A DENOTES PROP. TEMP. CONSTR. EASE. FOR SLOPES
- 3B DENOTES PROP. TEMP. CONSTR. EASE. FOR ENTRANCES & PARKING LOTS
- 4 DENOTES PROP. PERM. DRAINAGE EASE.
- 4B DENOTES PROP. PERM. DRAINAGE SLOPE EASE.
- 5 DENOTES PROP. PERM. CONSTR. EASE. FOR SLOPES
- 5C DENOTES PROP. PERM. CONSTR. EASE. FOR ENTRANCES & PARKING LOTS
- 6 DENOTES PROP. PERM. DRAINAGE EASE.
- 6B DENOTES PROP. PERM. DRAINAGE SLOPE EASE.
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- 7C DENOTES PROP. PERM. CONSTR. EASE. FOR ENTRANCES & PARKING LOTS
- 8 DENOTES PROP. PERM. DRAINAGE EASE.
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- 9 DENOTES PROP. PERM. CONSTR. EASE. FOR SLOPES
- 9C DENOTES PROP. PERM. CONSTR. EASE. FOR ENTRANCES & PARKING LOTS
- 10 DENOTES PROP. PERM. DRAINAGE EASE.
- 10B DENOTES PROP. PERM. DRAINAGE SLOPE EASE.
- 11 DENOTES PROP. PERM. CONSTR. EASE. FOR SLOPES
- 11C DENOTES PROP. PERM. CONSTR. EASE. FOR ENTRANCES & PARKING LOTS
- 12 DENOTES PROP. PERM. DRAINAGE EASE.
- 12B DENOTES PROP. PERM. DRAINAGE SLOPE EASE.
- 13 DENOTES PROP. PERM. CONSTR. EASE. FOR SLOPES
- 13C DENOTES PROP. PERM. CONSTR. EASE. FOR ENTRANCES & PARKING LOTS
- 14 DENOTES PROP. PERM. DRAINAGE EASE.
- 14B DENOTES PROP. PERM. DRAINAGE SLOPE EASE.
- 15 DENOTES PROP. PERM. CONSTR. EASE. FOR SLOPES
- 15C DENOTES PROP. PERM. CONSTR. EASE. FOR ENTRANCES & PARKING LOTS
- 16 DENOTES PROP. PERM. DRAINAGE EASE.
- 16B DENOTES PROP. PERM. DRAINAGE SLOPE EASE.
- 17 DENOTES PROP. PERM. CONSTR. EASE. FOR SLOPES
- 17C DENOTES PROP. PERM. CONSTR. EASE. FOR ENTRANCES & PARKING LOTS
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- 19 DENOTES PROP. PERM. CONSTR. EASE. FOR SLOPES
- 19C DENOTES PROP. PERM. CONSTR. EASE. FOR ENTRANCES & PARKING LOTS
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- 21C DENOTES PROP. PERM. CONSTR. EASE. FOR ENTRANCES & PARKING LOTS
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- 95 DENOTES PROP. PERM. CONSTR. EASE. FOR SLOPES
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- 97C DENOTES PROP. PERM. CONSTR. EASE. FOR ENTRANCES & PARKING LOTS
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- 99 DENOTES PROP. PERM. CONSTR. EASE. FOR SLOPES
- 99C DENOTES PROP. PERM. CONSTR. EASE. FOR ENTRANCES & PARKING LOTS
- 100 DENOTES PROP. PERM. DRAINAGE EASE.
- 100B DENOTES PROP. PERM. DRAINAGE SLOPE EASE.

IPF/IRF

EXISTING PROPERTY MARKER

EXISTING PROPERTY LINE

EXISTING R/W LINE

CONSTRUCTION BASELINE

EXISTING PROPERTY MARKER

SET RM-2 (SEE NOTES)

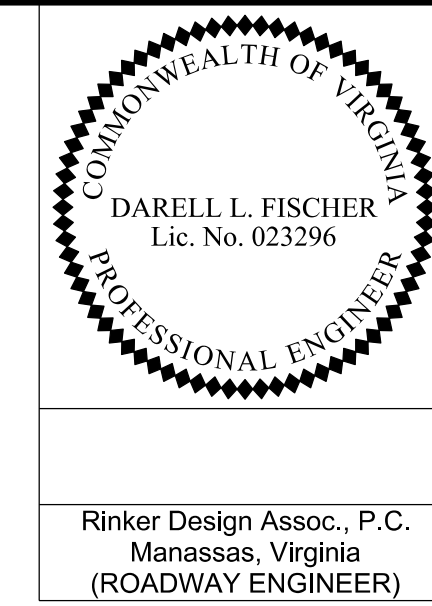
SCALE	VDOT PROJECT NO.	SHEET NO.
0 50' 100'	0495-029-419	11RW AREA 3

APP. FOR ROW



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 Accumark - Michael Taylor, LS (703) 635-3060, 12/2021

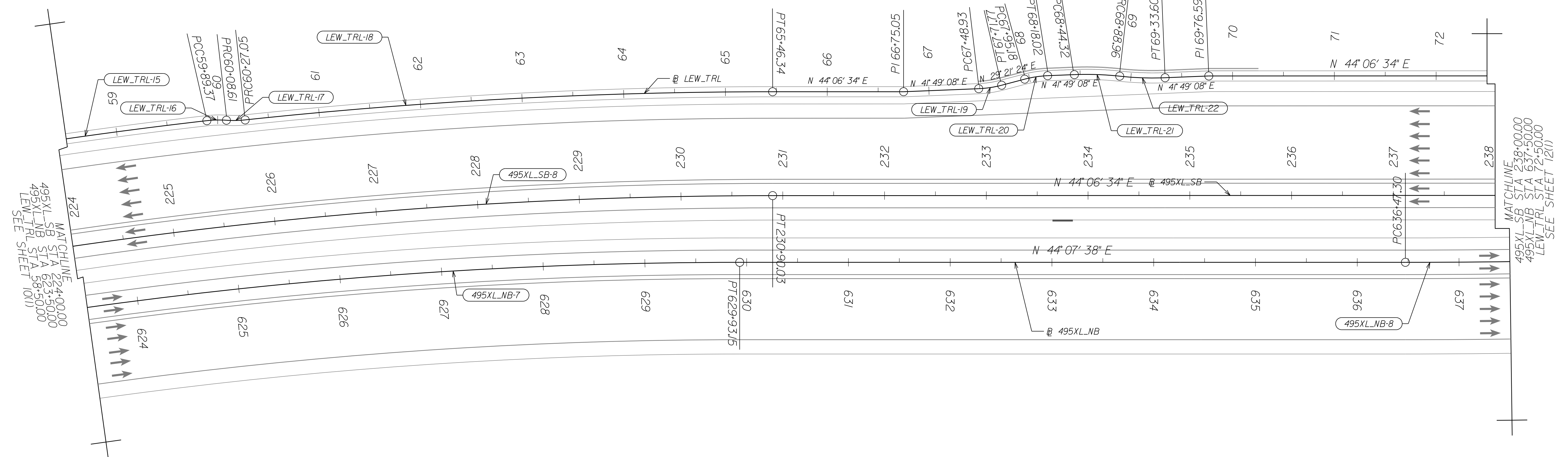
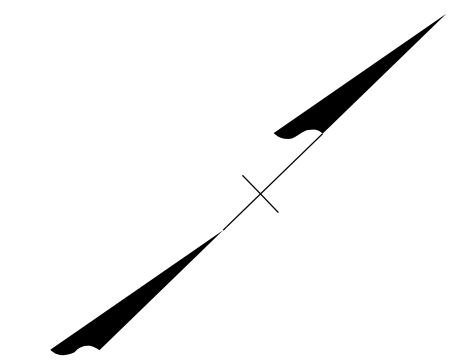
# Alignment Data



REVISED	STATE	ROUTE	STATE	VDOT PROJECT NO.	SHEET NO.
	VA	495		0495-029-419 C501 RW201	11(1) AREA 3

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

<p>Curve LEW_TRL15                  PI = 57+58.33                  DELTA = 5° 24' 04.42" (RT)                  D = 1° 10' 05"                  T = 231.38'                  L = 462.43'                  R = 4905.37'                  PCC = 55+26.94                  PTC = 59+89.37                  DESIGN SPEED = 18 MPH                  e = 2.00% (RC)                  Lr = N/A</p>	<p>Curve LEW_TRL16                  PI = 59+99.02                  DELTA = 10° 29' 58.78" (RT)                  D = 54° 34' 03"                  T = 9.65'                  L = 19.24'                  R = 105.00'                  PCC = 59+89.37                  PTC = 60+08.61                  DESIGN SPEED = 18 MPH                  e = 2.00% (RC)                  Lr = N/A</p>	<p>Curve LEW_TRL17                  PI = 60+17.85                  DELTA = 10° 03' 42.30" (LT)                  D = 54° 34' 03"                  T = 9.24'                  L = 18.44'                  R = 105.00'                  PRC = 60+08.61                  PTC = 60+27.05                  DESIGN SPEED = 18 MPH                  e = 2.00% (RC)                  Lr = N/A</p>	<p>Curve LEW_TRL18                  PI = 62+86.94                  DELTA = 6° 04' 10.59" (RT)                  D = 1° 10' 08"                  T = 259.89'                  L = 519.29'                  R = 4902.00'                  PRC = 60+27.05                  PTC = 65+46.34                  DESIGN SPEED = 18 MPH                  e = 2.00% (RC)                  Lr = N/A</p>	<p>Curve LEW_TRL19                  PI = 67+60.40                  DELTA = 12° 27' 43.41" (LT)                  D = 54° 34' 03"                  T = 11.46'                  L = 22.84'                  R = 105.00'                  PC = 67+48.93                  PT = 67+71.77                  DESIGN SPEED = 18 MPH                  e = 2.00% (RC)                  Lr = N/A</p>	<p>Curve LEW_TRL20                  PI = 68+06.65                  DELTA = 12° 27' 43.41" (RT)                  D = 54° 34' 03"                  T = 11.46'                  L = 22.84'                  R = 105.00'                  PC = 67+95.18                  PT = 68+18.02                  DESIGN SPEED = 18 MPH                  e = 2.00% (RC)                  Lr = N/A</p>	<p>Curve LEW_TRL21                  PI = 68+66.68                  DELTA = 8° 31' 31.77" (RT)                  D = 19° 05' 55"                  T = 22.36'                  L = 44.64'                  R = 300.00'                  PC = 68+44.32                  PTC = 68+88.96                  DESIGN SPEED = 18 MPH                  e = 2.00% (RC)                  Lr = N/A</p>	<p>Curve LEW_TRL22                  PI = 69+11.32                  DELTA = 8° 31' 31.77" (LT)                  D = 19° 05' 55"                  T = 22.36'                  L = 44.64'                  R = 300.00'                  PRC = 68+88.96                  PTC = 69+33.60                  DESIGN SPEED = 18 MPH                  e = 2.00% (RC)                  Lr = N/A</p>
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NOVA DISTRICT

10/16/2022

<p>Curve 495XL-SB-8                  PI = 223+23.06                  DELTA = 18° 28' 18.58" (RT)                  D = 1° 11' 37"                  T = 780.52'                  L = 1547.49'                  R = 4800.00'                  PCC = 215+42.54                  PTC = 230+90.03                  DESIGN SPEED = 70 MPH                  e = 2.00% (RC)                  Lr = 47.3'</p>	<p>Curve 495XL-NB-7                  PI = 62+95.39                  DELTA = 19° 49' 26.95" (RT)                  D = 1° 13' 48"                  T = 814.03'                  L = 1611.79'                  R = 4658.40'                  PC = 613+81.36                  PT = 629+93.15                  DESIGN SPEED = 70 MPH                  e = 2.50%, 4.00%                  Lr = 484'</p>	<p>Curve 495XL-NB-8                  PI = 639+52.66                  DELTA = 4° 30' 21.00" (LT)                  D = 0° 44' 17"                  T = 305.37'                  L = 610.42'                  R = 7162.00'                  PC = 636+47.30                  PCC = 642+57.71                  DESIGN SPEED = 70 MPH                  e = 2.80%                  Lr = 308' (PC), 154' (PCC)</p>
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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(3)
Erosion Controls Ph1 & Ph2	M(11), W(11)
Typical Sections	2A thru 2B(8)
Ditch Lining Typical Sections	2J
Drainage Descriptions	2K thru 2K(6)
Design Legend	22
Roadway Plan Sheet	11
Drainage Plan Sheet	11DR
Right of Way Plan Sheet	11RW
Profile 1-495 NB	11A
Profile 1-495 SB	11B
Profile Lewisville SUP	11C

SCALE 0 50' 100'	VDOT PROJECT NO. 0495-029-419	SHEET NO. 11(1) AREA 3
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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 - Michael Taylor LS (703) 635-3060 12/2021

# 495 Express Lanes Northbound

SHANNON L. MATTISON  
Lic. No. 036540  
PROFESSIONAL ENGINEER

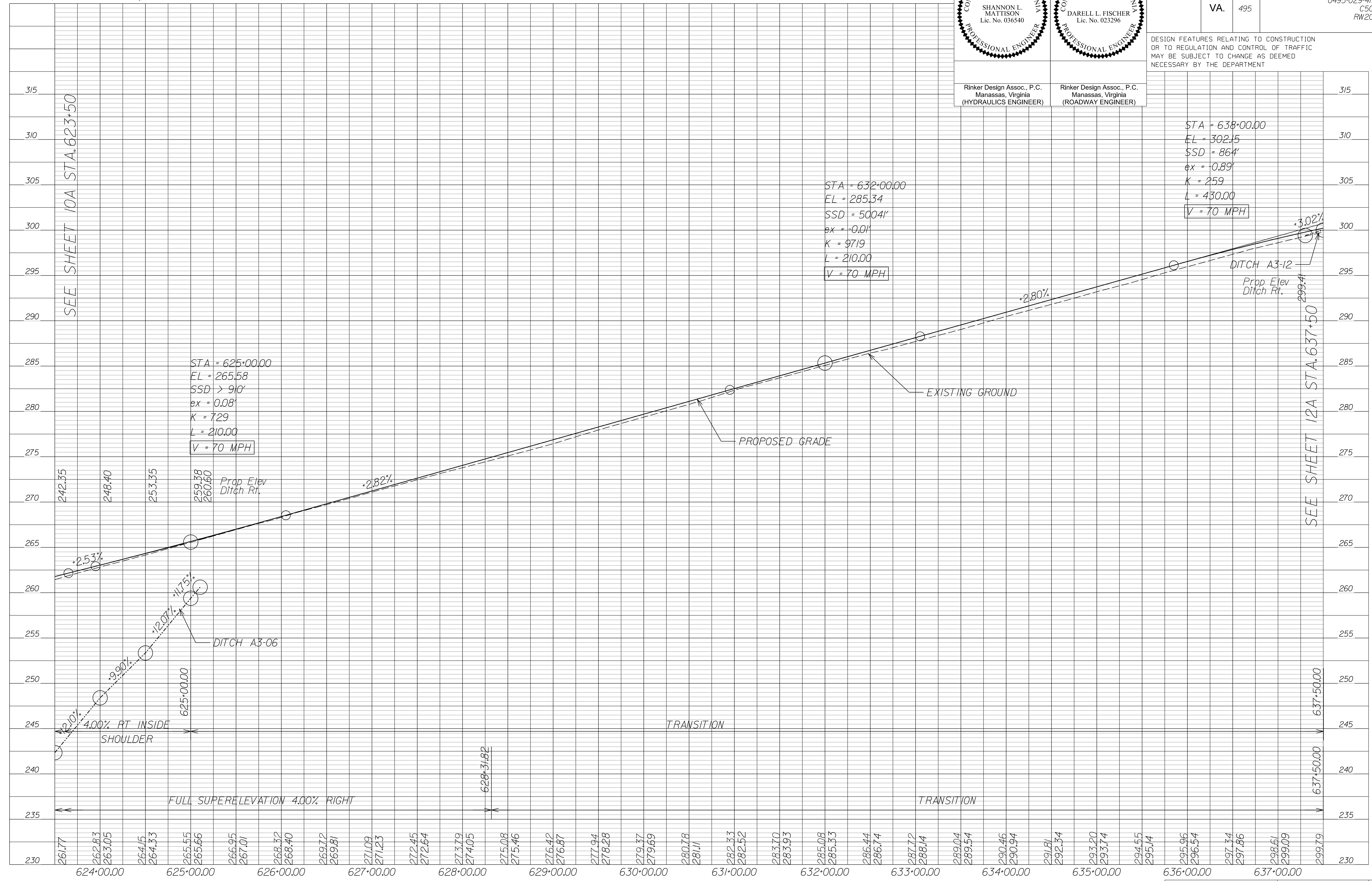
DARELL L. FISCHER  
Lic. No. 023296  
PROFESSIONAL ENGINEER

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 CS01 RW201	I/A AREA 3

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 10A STA. 623+50

SEE SHEET 12A STA. 637+50

NOVA DISTRICT

10/16/2022

SCALE: HORIZ: 1"=50', VERT: 1"=5'

VDOT PROJECT NO. 0495-029-419

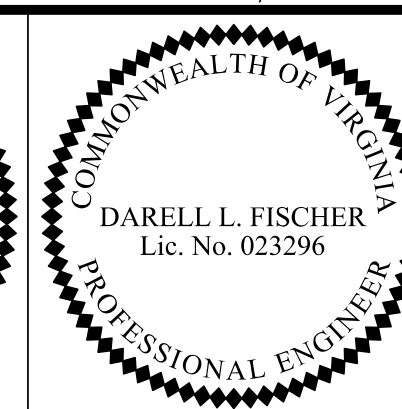
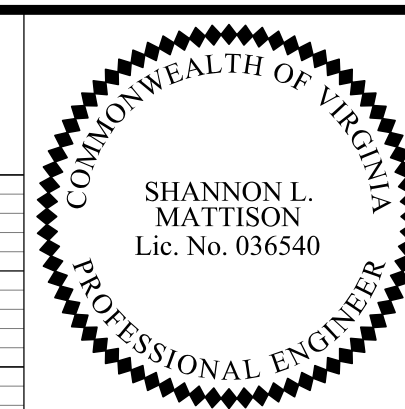
SHEET NO. I/A AREA 3

APPROVED FOR CONSTRUCTION



PROJECT MANAGER\_VDOT - Rimpal Stab, PE, (703) 259-2362  
SURVEYED BY, DATE - BDA - Nicholas 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

# 495 Express Lanes Southbound

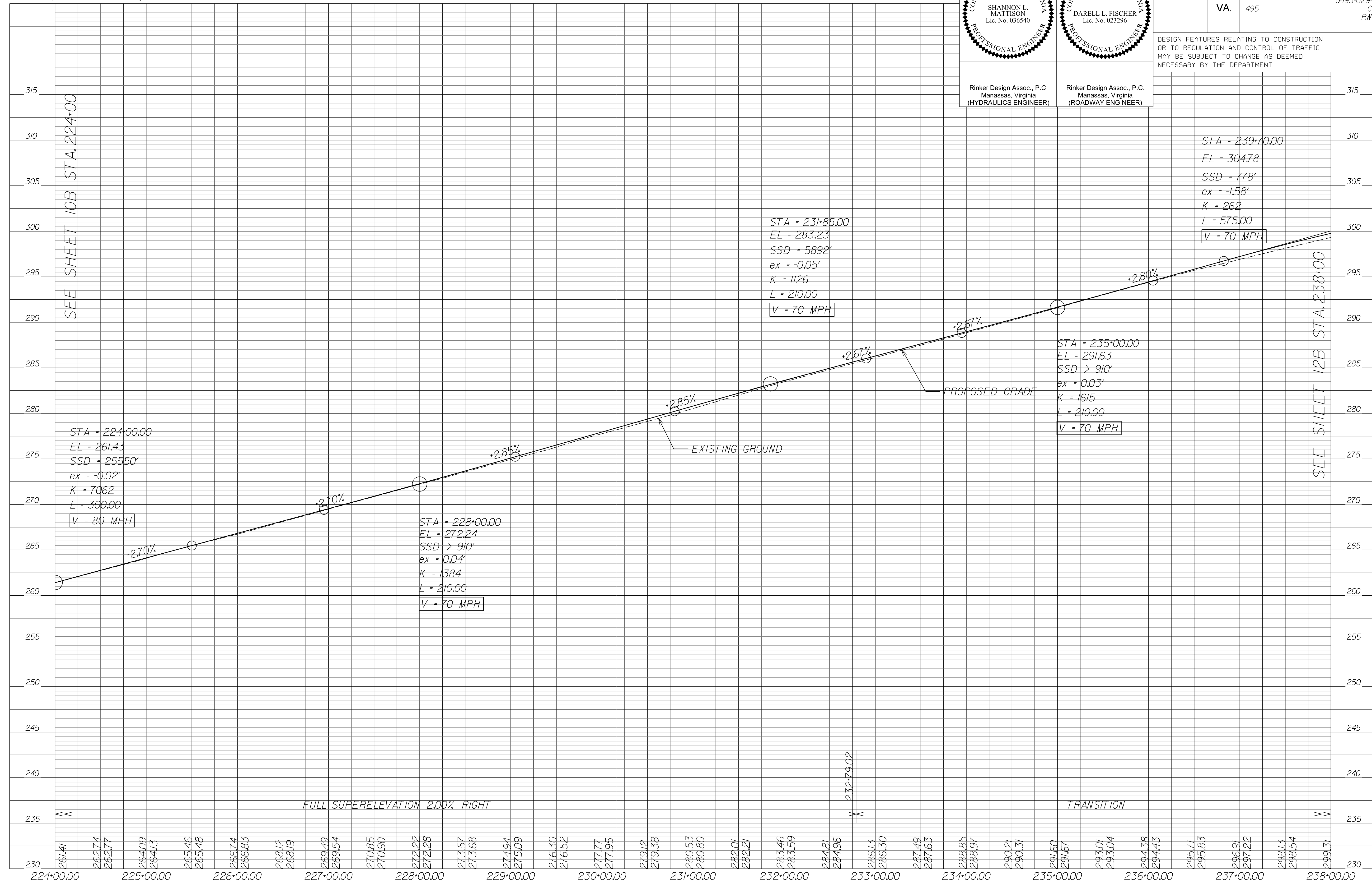


Rinker Design Assoc., P.C.  
Manassas, Virginia  
(HYDRAULICS ENGINEER)

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

REVISED	STATE	ROUTE	STATE PROJECT	SHEET NO
	VA.	495	0495-029-419 C501 RW201	IIB AREA 3

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 10B STA. 224+00

SEE SHEET 12B STA. 238+00

NOVA DISTRICT

10/16/2022

SCALE: HORIZ: 1"=50' VERT: 1"=5'  
VDOT PROJECT NO. 0495-029-419  
SHEET NO. IIB AREA 3

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 - Dorell Elischer PE (703) 334-0823  
SUBSURFACE UTILITY BY DATE\_Accumark - Michael Taylor LS (703) 635-3060 12/2021

# Lewinsville Shared Use Path

SHANNON L. MATTISON  
Lic. No. 036540  
PROFESSIONAL ENGINEER

DARELL L. FISCHER  
Lic. No. 023296  
PROFESSIONAL ENGINEER

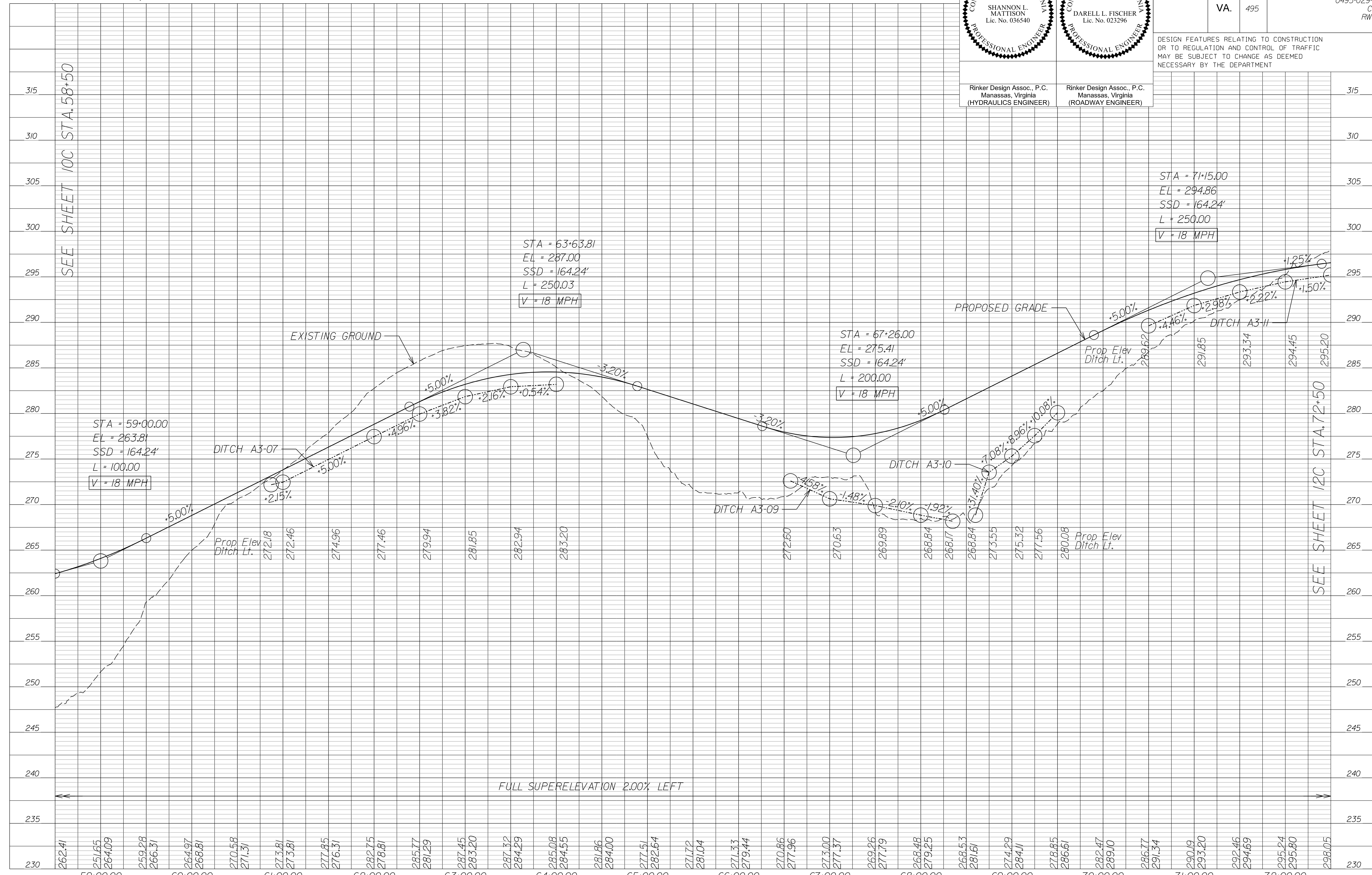
Rinker Design Assoc., P.C.  
Manassas, Virginia  
(HYDRAULICS ENGINEER)

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

REVISED	STATE	ROUTE	STATE PROJECT	SHEET NO
	VA.	495	0495-029-419 C501 RW201	IIC AREA 3

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

	315
	310
	305
	300
	295
	290
	285
	280
	275
	270
	265
	260
	255
	250
	245
	240
	235
	230



NOVA DISTRICT

10/16/2022

SCALE HORIZ: 1"=50'  
VERT: 1"=5'

VDOT PROJECT NO. 0495-029-419

SHEET NO. IIC AREA 3

APPROVED FOR CONSTRUCTION

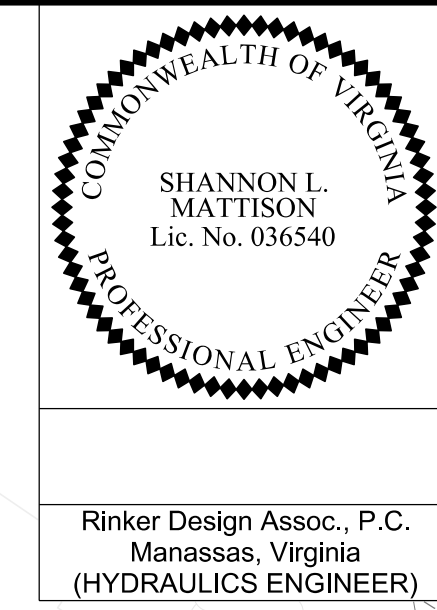






PROJECT MANAGER\_VDOT - Rupal Shah, P.E. (703) 259-2362  
SURVEYED BY, DATE\_RDA - Nicholas Kougaull, L.S. (703) 334-0837, 12/2021  
DESIGN BY\_RDA - Darrell Fischer, P.E. (703) 334-0823  
SUBSURFACE UTILITY BY, DATE\_Accurmak - Michael Taylor, L.S. (703) 635-3060, 12/2021

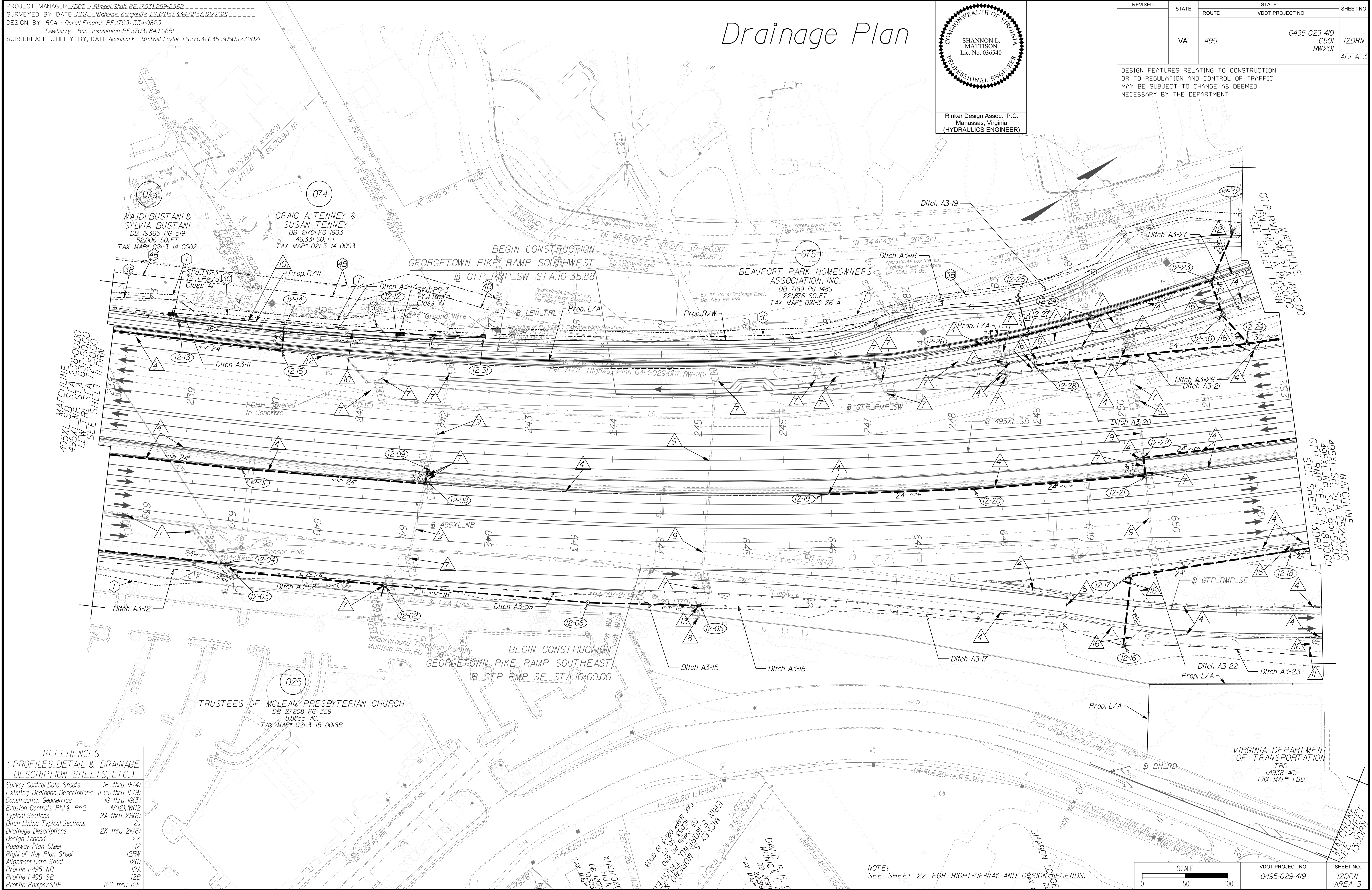
# Drainage Plan



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	12DRN AREA 3

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



**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(3)
Erosion Controls Ph1 & Ph2	1N(1), 1N(2)
Typical Sections	2A thru 2B(8)
Ditch Lining Typical Sections	2J
Drainage Descriptions	2K thru 2K(6)
Design Legend	2Z
Roadway Plan Sheet	12
Right of Way Plan Sheet	12RW
Alignment Data Sheet	12(1)
Profile 1-495 NB	12A
Profile 1-495 SB	12B
Profile Ramps/SUP	12C thru 12E

NOTE: SEE SHEET 2Z FOR RIGHT-OF-WAY AND DESIGN LEGENDS.

SCALE 0 50' 100'	VDOT PROJECT NO. 0495-029-419	SHEET NO. 12DRN AREA 3
---------------------	----------------------------------	------------------------------

APPROVED FOR CONSTRUCTION



PROJECT MANAGER\_VDOT - Rita Pal...  
 SURVEYED BY, DATE\_RDA - Nicholas Kougoulis...  
 DESIGN BY\_RDA - Darrell Fischer...  
 SUBSURFACE UTILITY BY, DATE\_Accumark - Michael Taylor...

PROJECT ASSIGNED PARCEL NO.	APPROXIMATE AREAS										
	AREA					EASEMENT					
	TOTAL ACRES	PROP. R/W SQ.FT.	FEE REMAINDER ACRES	DOM. ENERGY UTILITY SQ.FT.	VDOT UTILITY SQ.FT.	PERMANENT		TEMP. CONSTR.			
025	8.886	-	8.886	-	-	DRAINAGE	DRAIN.SLOPE	DRAIN.WALL	SLOPE	SLOPES	ENTRANCES & PARKING LOTS
073	1.94	2,054	1.147	5,941	-	SQ.FT.	SQ.FT.	SQ.FT.	SQ.FT.	SQ.FT.	SQ.FT.
074	1.064	3,068	0.994	3,049	-	-	-	-	-	-	-
075	5.094	32,650	4,344	1,382	-	360	8,171	2,615	-	8,926	-

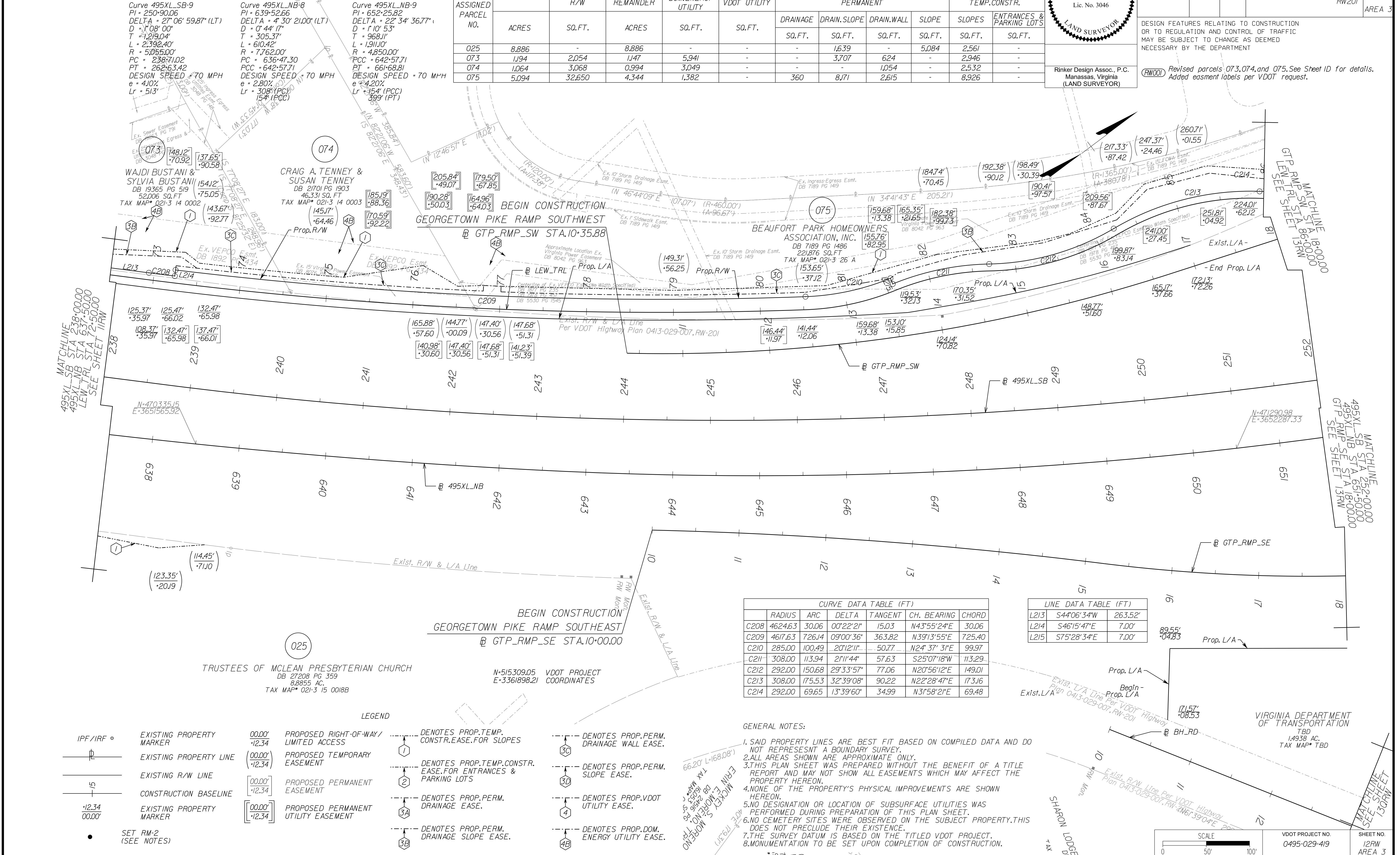
COMMONWEALTH OF VIRGINIA  
 NICHOLAS KOUGOULIS  
 Lic. No. 3046  
 LAND SURVEYOR

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	12RW AREA 3

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

(RW001) Revised parcels 073, 074, and 075. See Sheet ID for details. Added easement labels per VDOT request.

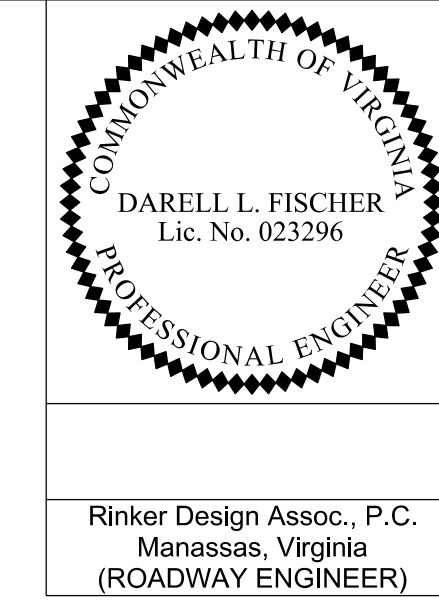


APP. FOR ROW



PROJECT MANAGER\_VDOT - Rita Pal...  
 SURVEYED BY\_DATE\_RDA - Nicholas...  
 DESIGN BY\_RDA - Darrell Fischer...  
 SUBSURFACE UTILITY BY\_DATE\_Accumark - Michael Taylor...

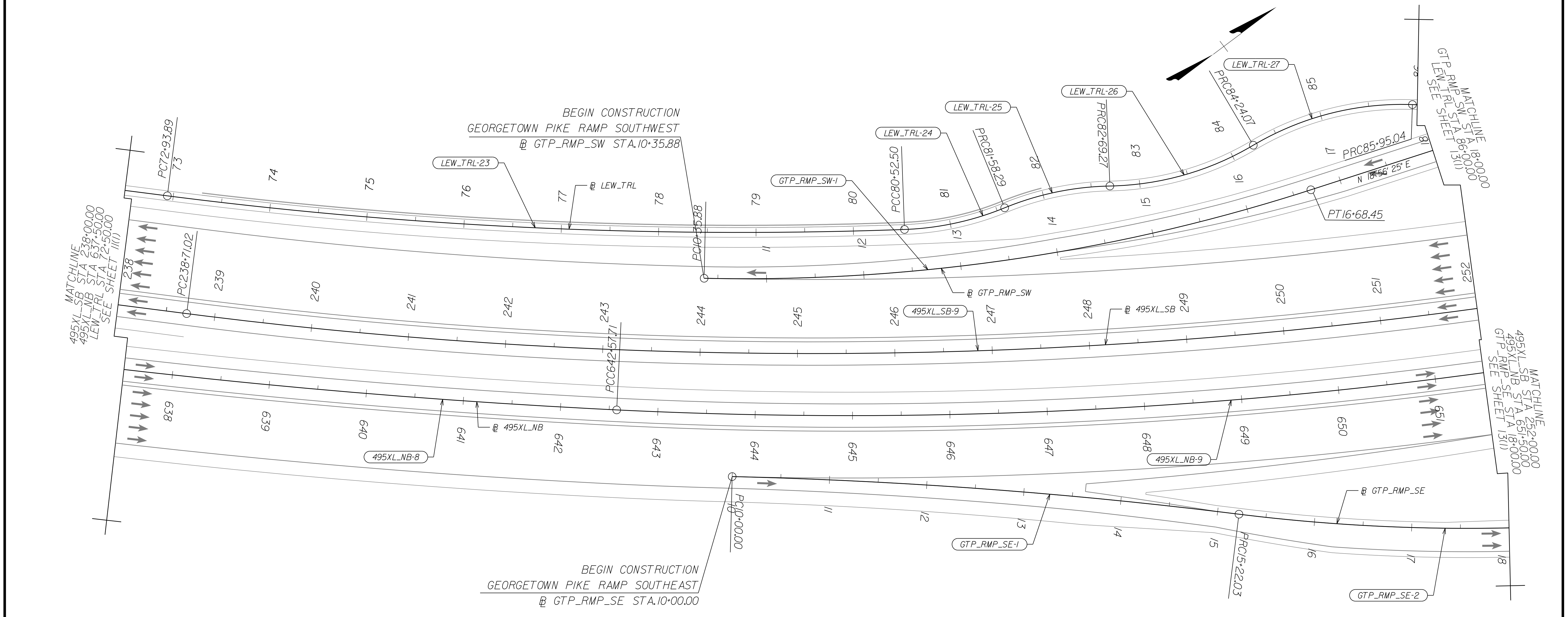
# Alignment Data



REVISED	STATE	ROUTE	STATE	VDOT PROJECT NO.	SHEET NO.
	VA	495		0495-029-419 C501 RW201	12(1) AREA 3

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

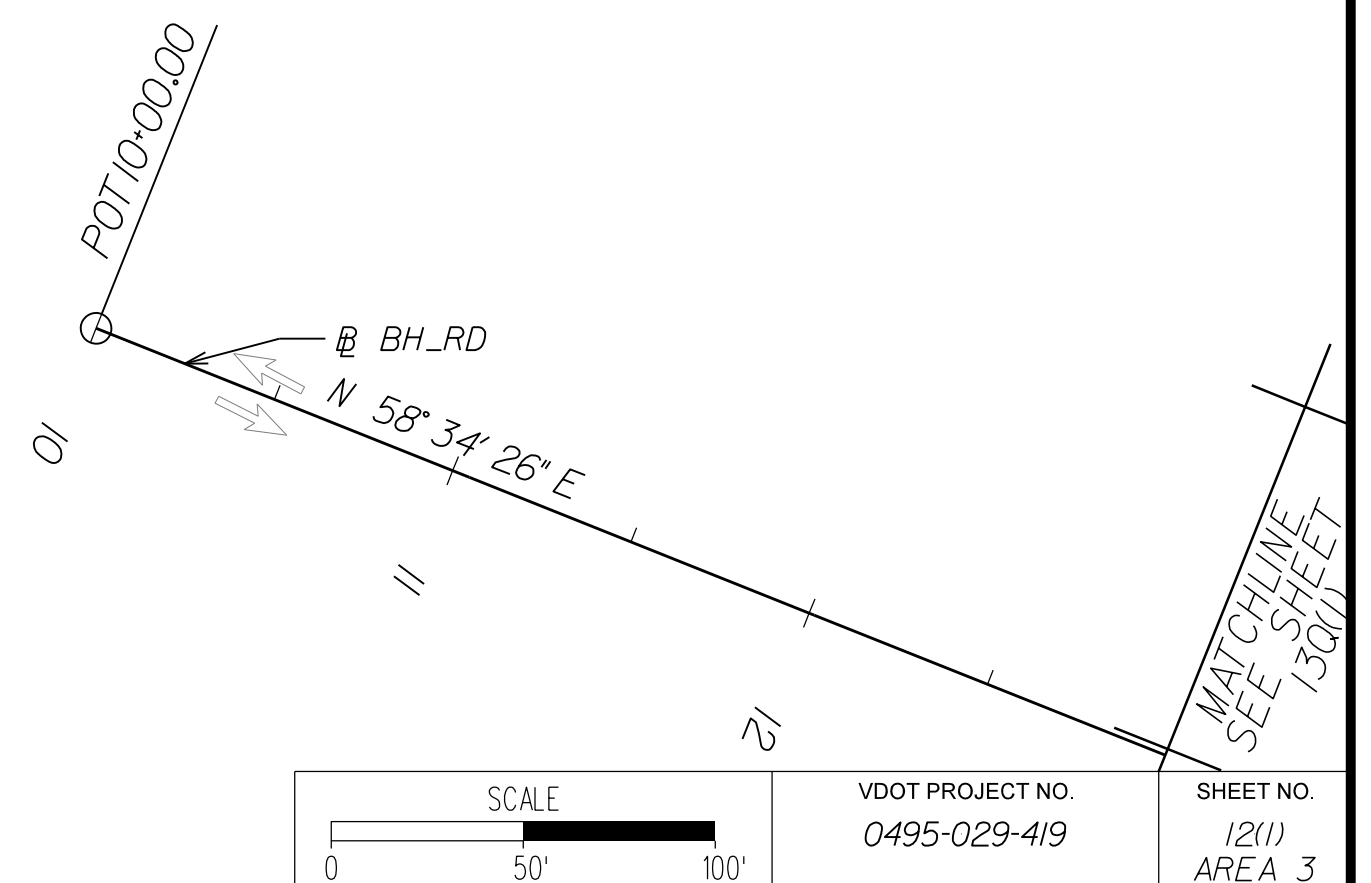
- Curve LEW\_TRL23  
PI = 76.74.05  
DELTA = 9° 22' 56.76" (LT)  
D = 1' 14" 12"  
T = 380.16'  
L = 758.61'  
R = 4632.63'  
PC = 72.93.89  
PCC = 80.52.50  
DESIGN SPEED = 18 MPH  
e = 2.00% (RC)  
Lr = N/A
- Curve LEW\_TRL24  
PI = 81.05.95  
DELTA = 20° 12' 11.27" (LT)  
D = 19' 05" 55"  
T = 53.45'  
L = 105.78'  
R = 300.00'  
PCC = 80.52.50  
PRC = 81.58.29  
DESIGN SPEED = 18 MPH  
e = 2.00% (RC)  
Lr = N/A
- Curve LEW\_TRL25  
PI = 82.14.42  
DELTA = 21° 11' 44.23" (RT)  
D = 19' 05" 55"  
T = 56.13'  
L = 110.98'  
R = 300.00'  
PRC = 81.58.29  
PRC = 82.69.27  
DESIGN SPEED = 18 MPH  
e = 2.00% (RC)  
Lr = N/A
- Curve LEW\_TRL26  
PI = 83.48.44  
DELTA = 29° 33' 57.05" (LT)  
D = 19' 05" 55"  
T = 56.13'  
L = 154.81'  
R = 300.00'  
PRC = 82.69.27  
PRC = 84.24.07  
DESIGN SPEED = 18 MPH  
e = 2.00% (RC)  
Lr = N/A
- Curve LEW\_TRL27  
PI = 85.11.95  
DELTA = 32° 39' 07.74" (RT)  
D = 19' 05" 55"  
T = 87.87'  
L = 170.97'  
R = 300.00'  
PRC = 84.24.07  
PRC = 85.95.04  
DESIGN SPEED = 18 MPH  
e = 2.00% (RC)  
Lr = N/A



**REFERENCES**  
(PROFILES, DETAIL & DRAINAGE DESCRIPTION SHEETS, ETC.)

Survey Control Data Sheets	1F thru 1F(4)
Existing Drainage Descriptions	1F(5) thru 1F(9)
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Erosion Controls Ph1 & Ph2	1N(1), 1N(2)
Typical Sections	2A thru 2B(8)
Ditch Lining Typical Sections	2J
Drainage Descriptions	2K thru 2K(6)
Design Legend	2Z
Roadway Plan Sheet	12
Drainage Plan Sheet	12DRN
Right of Way Plan Sheet	12RW
Profile 1-495 NB	12A
Profile 1-495 SB	12B
Profile Ramps/SUP	12C thru 12E

- Curve 495XL-SB-9  
PI = 250.90.06  
DELTA = 27° 06' 59.87" (LT)  
D = 1' 08" 00"  
T = 1219.04'  
L = 2,392.40'  
R = 5,055.00'  
PC = 238.71.02  
PT = 262.63.42  
DESIGN SPEED = 70 MPH  
e = 4.10%  
Lr = 513'
- Curve 495XL-NB-8  
PI = 639.52.66  
DELTA = 4° 30' 21.00" (LT)  
D = 0' 44" 17"  
T = 305.37'  
L = 610.42'  
R = 7,762.00'  
PC = 636.47.30  
PCC = 642.57.71  
DESIGN SPEED = 70 MPH  
e = 2.80%  
Lr = 308' (PCC)  
154' (PCC)
- Curve 495XL-NB-9  
PI = 652.25.82  
DELTA = 22° 34' 36.77" (LT)  
D = 1' 10" 53"  
T = 968.11'  
L = 1,911.00'  
R = 4,850.00'  
PCC = 642.57.71  
PT = 661.68.81  
DESIGN SPEED = 70 MPH  
e = 4.20%  
Lr = 154' (PCC)  
399' (PT)
- Curve GTP\_RMP\_SW-1  
PI = 13.55.14  
DELTA = 19° 08' 45.31" (LT)  
D = 3' 01' 36"  
T = 319.26'  
L = 632.56'  
R = 1,893.00'  
PC = 10.35.88  
PT = 16.68.45  
DESIGN SPEED = 30 MPH  
e = 5.30%  
Lr = 149'
- Curve GTP\_RMP\_SE-1  
PI = 12.61.23  
DELTA = 5° 41' 49.61" (RT)  
D = 1' 05" 29"  
T = 261.23'  
L = 522.03'  
R = 5,250.00'  
PC = 10.00.00  
PCC = 15.22.03  
PT = 21.39.02  
DESIGN SPEED = 45 MPH  
e = 2.30%  
Lr = 65'
- Curve GTP\_RMP\_SE-2  
PI = 18.33.26  
DELTA = 18° 36' 21.67" (LT)  
D = 3' 00" 56"  
T = 311.24'  
L = 617.00'  
R = 1,900.00'  
PRC = 15.22.03  
PT = 21.39.02  
DESIGN SPEED = 30 MPH  
e = 2.60%  
Lr = 94'



SCALE	VDOT PROJECT NO.	SHEET NO.
0 50' 100'	0495-029-419	12(1) AREA 3

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 - BDA - Darell Elischer PE (703) 334-0823  
SUBSURFACE UTILITY BY\_DATE - Michael Taylor LS (703) 635-3060 J2/2021

# 495 Express Lanes Northbound

SHANNON L. MATTISON  
Lic. No. 036540  
PROFESSIONAL ENGINEER

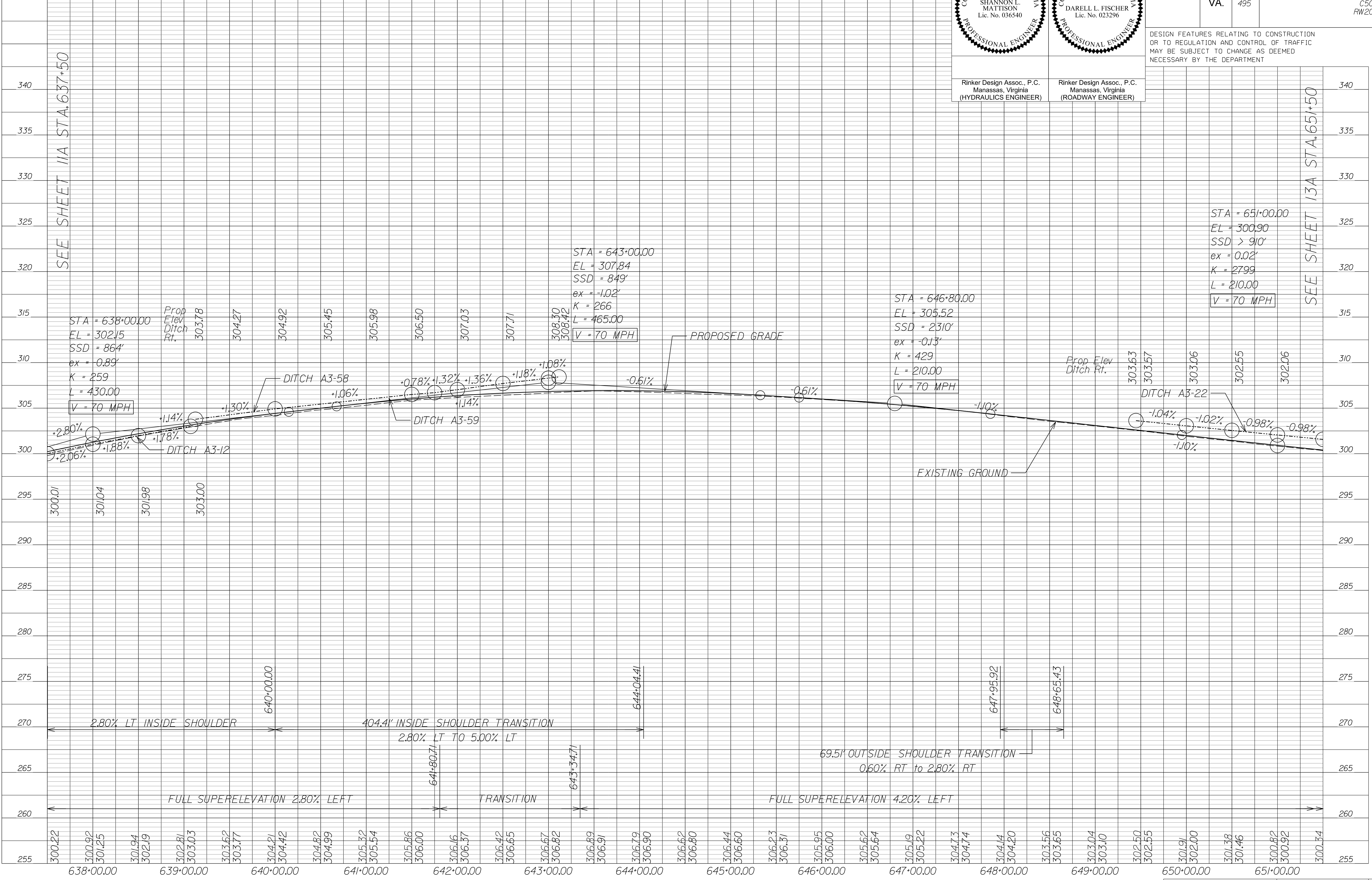
DARELL L. FISCHER  
Lic. No. 023296  
PROFESSIONAL ENGINEER

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	12A AREA 3

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 11A STA. 637+50

SEE SHEET 13A STA. 651+50

NOVA DISTRICT

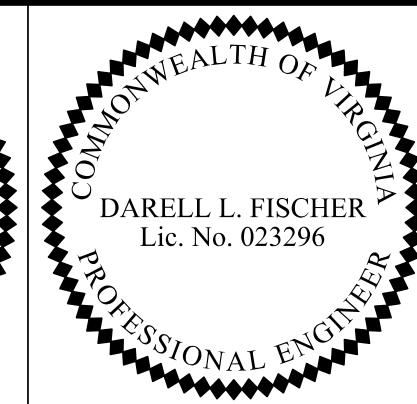
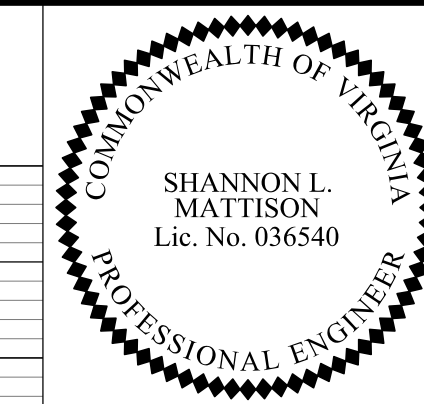
10/16/2022

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\_Accumar - Michael Taylor LS, (703) 635-3060, 12/2021

# 495 Express Lanes Southbound

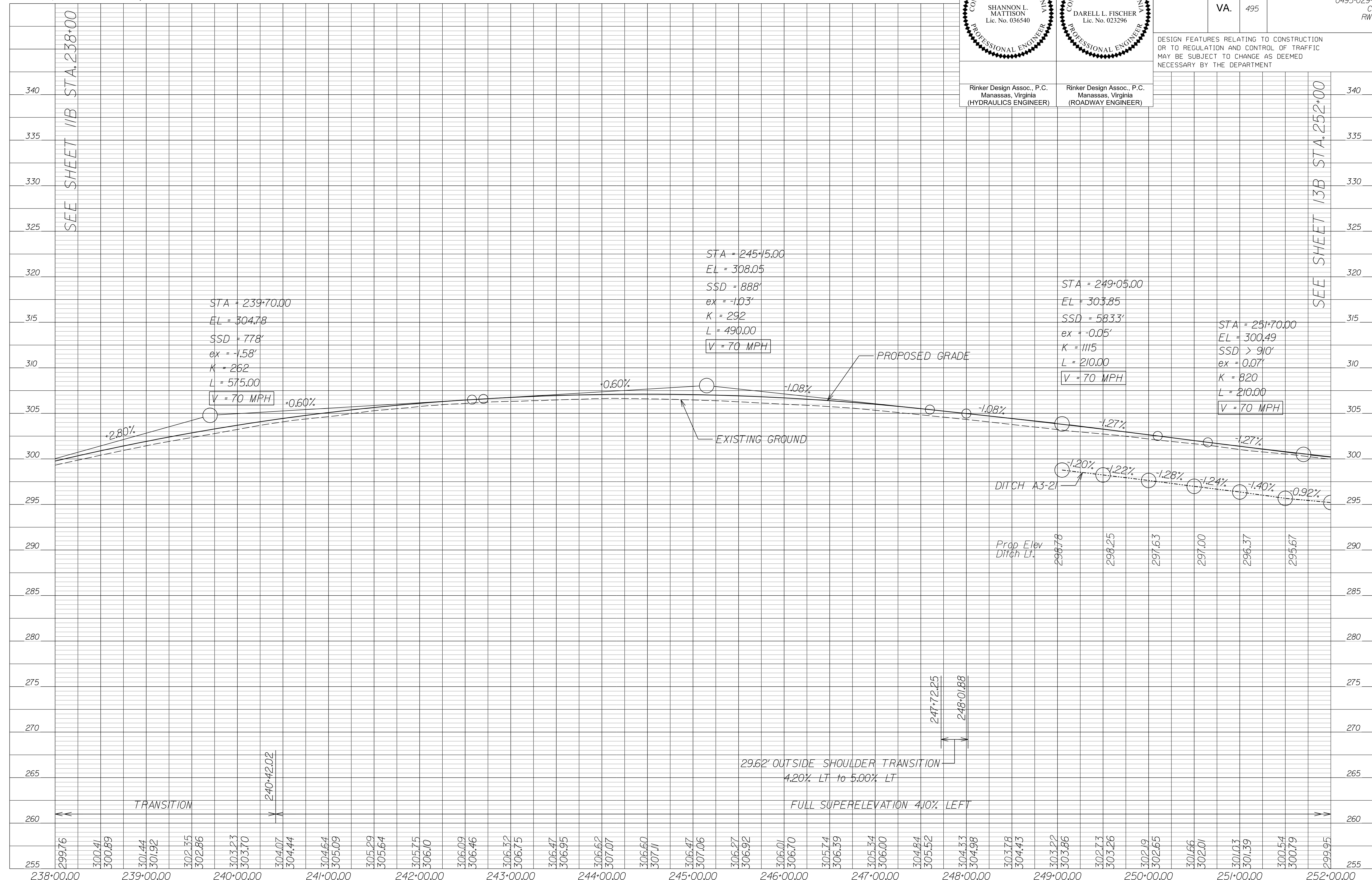


Rinker Design Assoc., P.C.  
Manassas, Virginia  
(HYDRAULICS ENGINEER)

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

REVISED	STATE	ROUTE	STATE PROJECT	SHEET NO
	VA.	495	0495-029-419 CS01 RW201	12B AREA 3

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 11B STA. 238+00

SEE SHEET 13B STA. 252+00

NOVA DISTRICT

10/16/2022

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\_DATE - BDA - Darell Fischer PE (703) 334-0823  
SUBSURFACE UTILITY BY\_DATE - Accumark - Michael Taylor LS (703) 635-3060 J2/2021

# Lewinsville Shared Use Path

SHANNON L. MATTISON  
Lic. No. 036540  
PROFESSIONAL ENGINEER

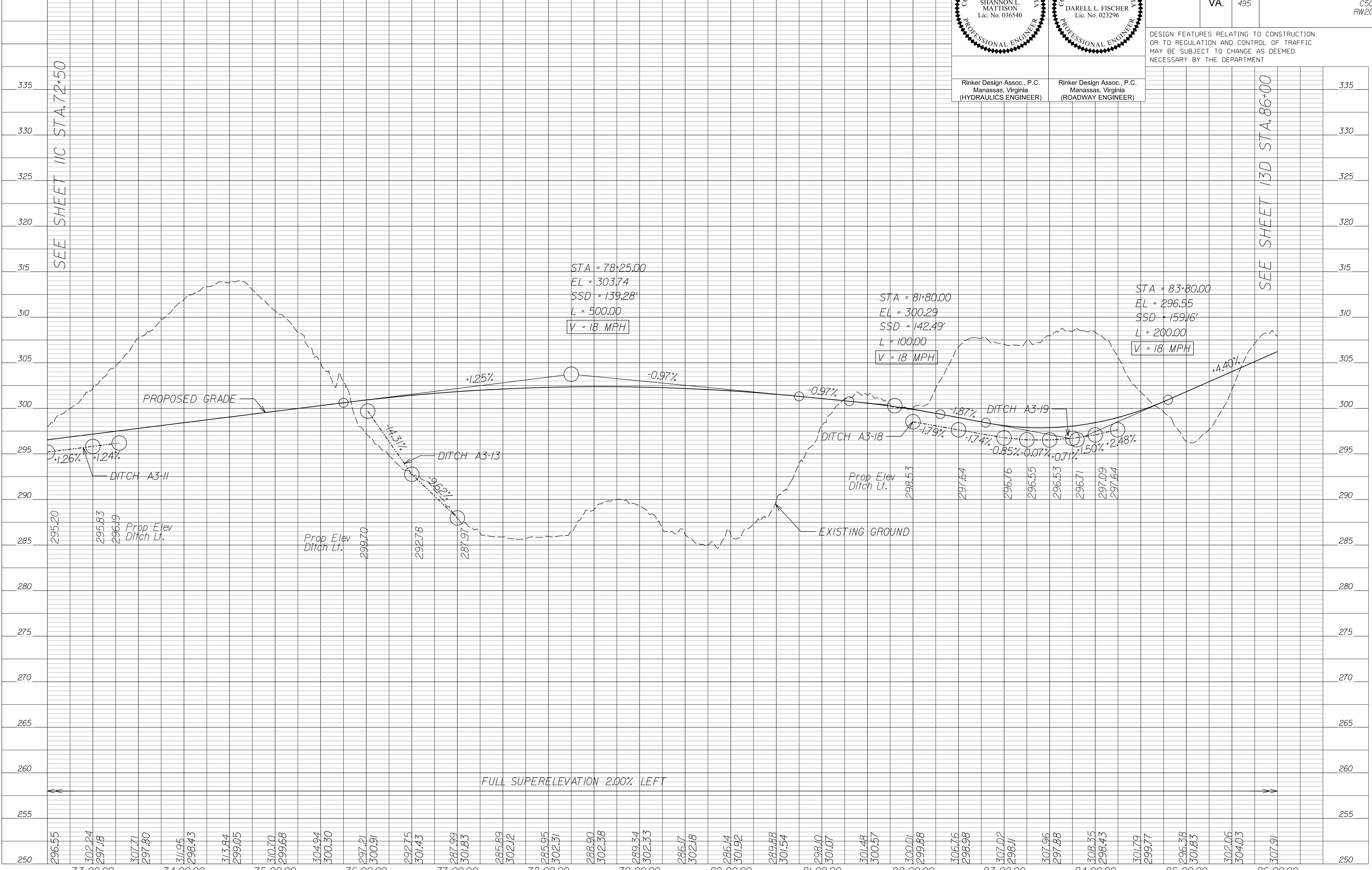
DARELL L. FISCHER  
Lic. No. 023296  
PROFESSIONAL ENGINEER

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	12C AREA 3

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 11C STA. 72+50

SEE SHEET 13D STA. 86+00

FULL SUPERELEVATION 2.00% LEFT

NOVA DISTRICT

10/16/2022

SCALE HORIZ: 1"=50'  
VERT: 1"=5'

VDOT PROJECT NO. 0495-029-419

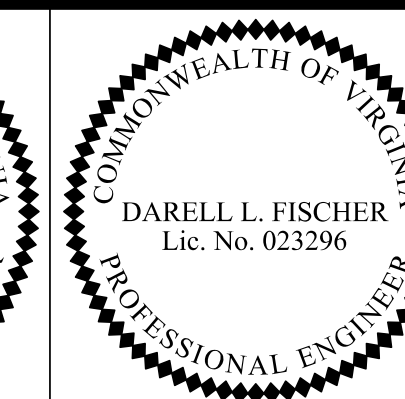
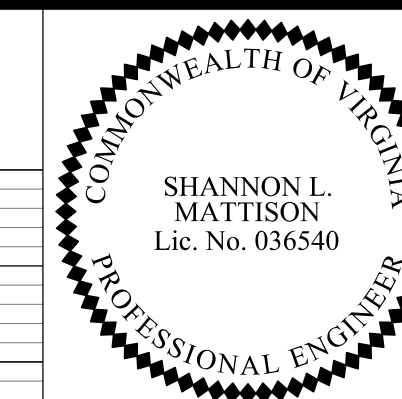
SHEET NO. 12C AREA 3

APPROVED FOR CONSTRUCTION



PROJECT MANAGER\_VDOT - Rimal Stab PE, (703) 259-2362  
SURVEYED BY, DATE\_BDA - Nicholas Kougoullis LS, (703) 334-0837, 12/2021  
DESIGN BY\_BDA - Darell L Fischer PE, (703) 334-0823  
SUBSURFACE UTILITY BY, DATE\_Accumark - Michael Taylor LS, (703) 635-3060, 12/2021

# Georgetown Pike Ramp Southeast

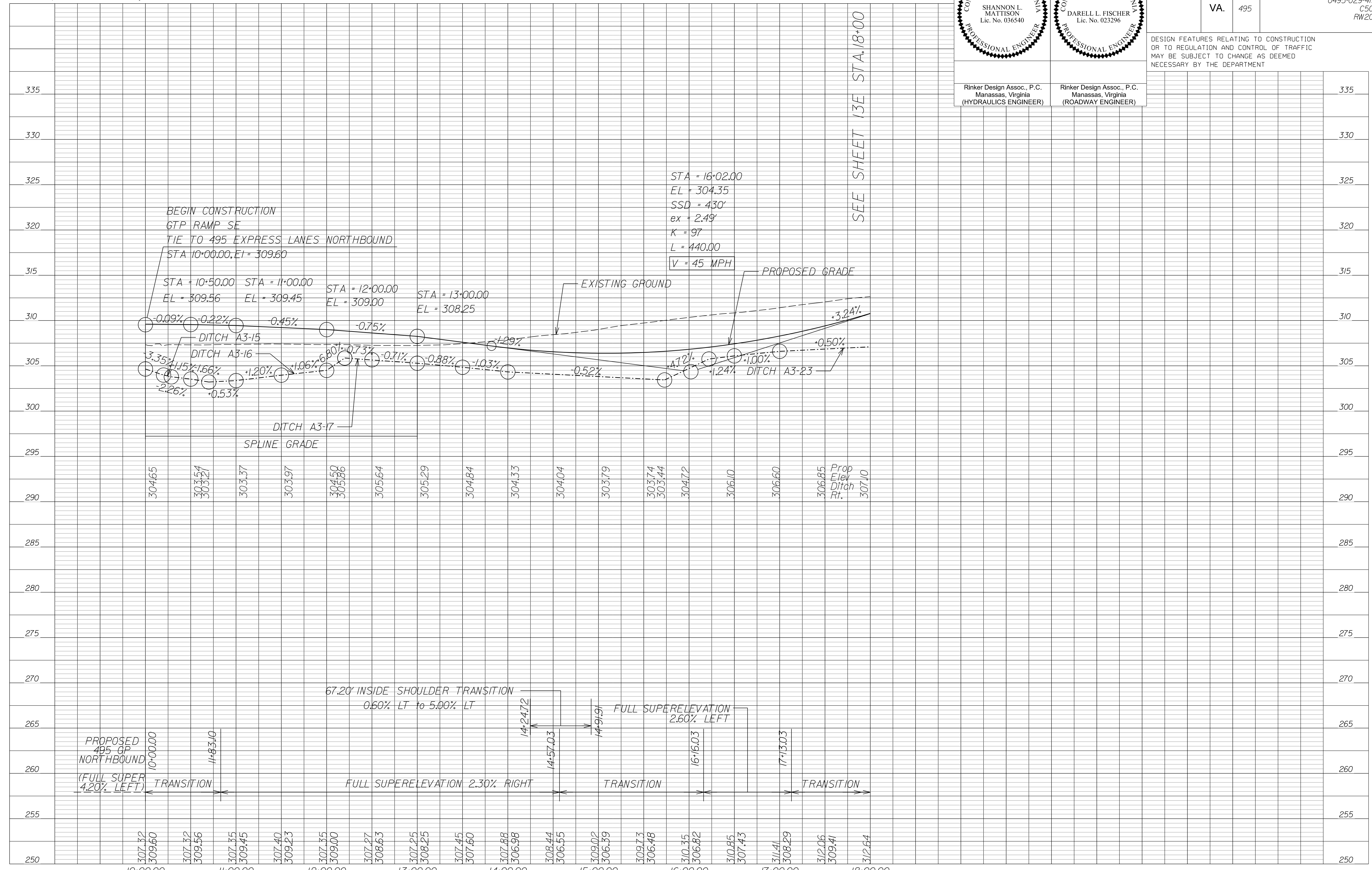


Rinker Design Assoc., P.C.  
Manassas, Virginia  
(HYDRAULICS ENGINEER)

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

REVISED	STATE	ROUTE	STATE PROJECT	SHEET NO
	VA.	495	0495-029-419 C501 RW201	12D AREA 3

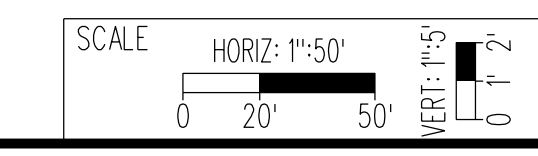
DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT



SEE SHEET 13E STA. 18+00

NOVA DISTRICT

10/16/2022



VDOT PROJECT NO. 0495-029-419  
SHEET NO. 12D AREA 3

APPROVED FOR CONSTRUCTION





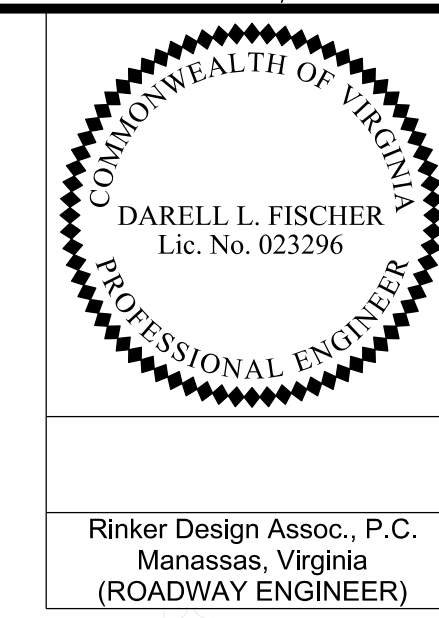


PROJECT MANAGER\_VDOT - Rupal Shah, PE, (703) 259-2362  
SURVEYED BY, DATE\_RDA - Nicholas Kougoullis, LS, (703) 334-0837, 12/2021  
DESIGN BY\_RDA - Darrell Fischer, PE, (703) 334-0823  
Newberry - Ron Jakomilich, PE, (703) 849-0651  
SUBSURFACE UTILITY BY, DATE\_Accumark - Michael Taylor, LS, (703) 635-3060, 12/2021

MATCHLINE  
GTP STA 20+50.00  
SEE SHEET 13N

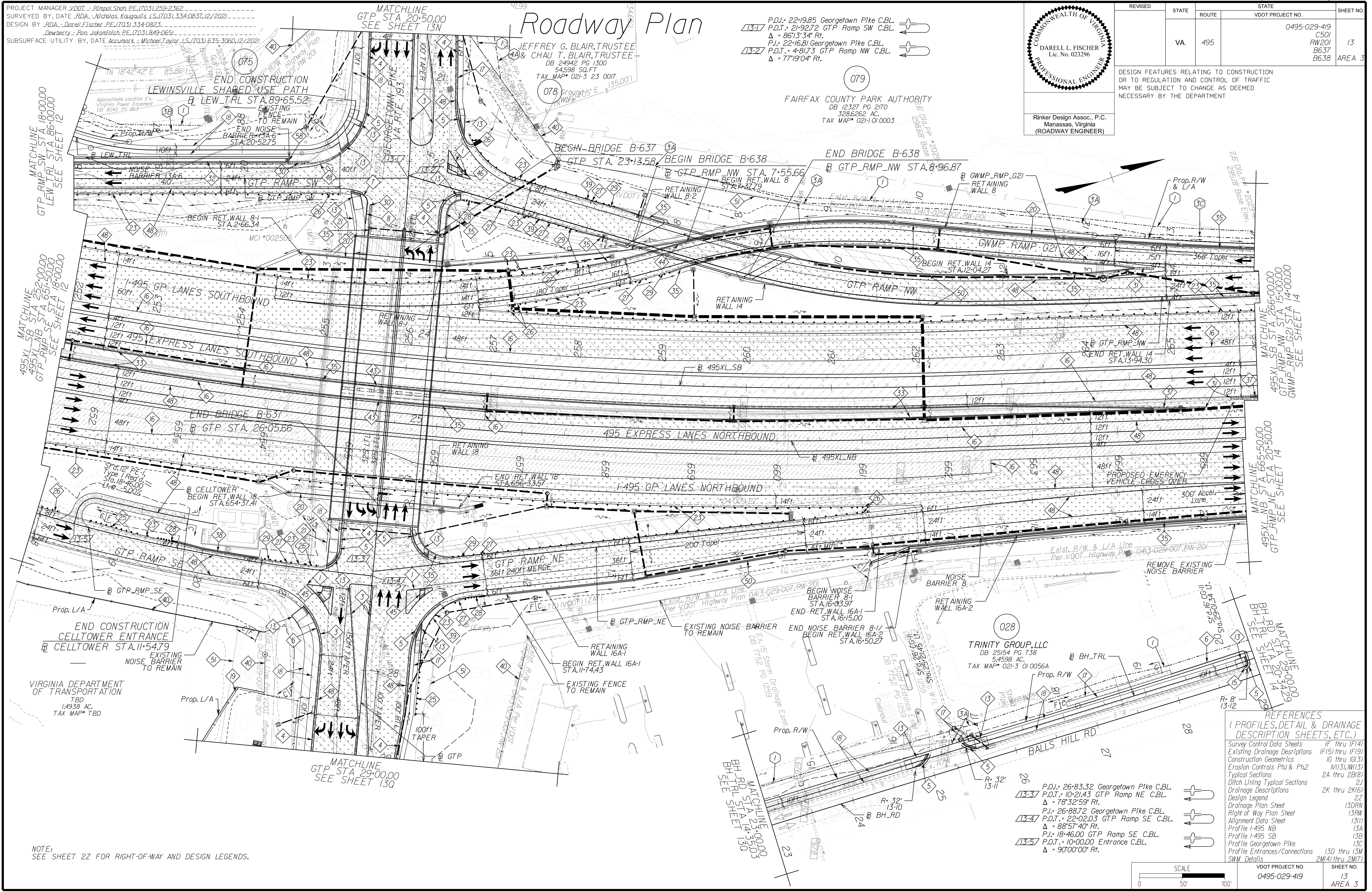
# Roadway Plan

- P.O.I. = 22+19.85 Georgetown Pike C.B.L.
- P.O.T. = 21+92.72 GTP Ramp SW C.B.L.
- Δ = 86°13'34" Rt.
- P.O.I. = 22+16.81 Georgetown Pike C.B.L.
- P.O.T. = 4+81.73 GTP Ramp NW C.B.L.
- Δ = 77°19'04" Rt.



REVISED	STATE	ROUTE	STATE	VDOT PROJECT NO.	SHEET NO.
	VA.	495		0495-029-419 C501 RW201 B637 B638	13 AREA 3

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 1F thru 1F(4)
  - Existing Drainage Descriptions 1F(5) thru 1F(9)
  - Construction Geometrics 1G thru 1G(3)
  - Erosion Controls Ph1 & Ph2 1N(1), 1N(1.3)
  - Typical Sections 2A thru 2B(8)
  - Ditch Lining Typical Sections 2J
  - Drainage Descriptions 2K thru 2K(6)
  - Design Legend 22
  - Drainage Plan Sheet 13DRN
  - Right of Way Plan Sheet 13RW
  - Alignment Data Sheet 13(1)
  - Profile 1-495 NB 13A
  - Profile 1-495 SB 13B
  - Profile Georgetown Pike 13C
  - Profile Entrances/Connections 13D thru 13M
  - SWM Details 2M(4) thru 2M(7)

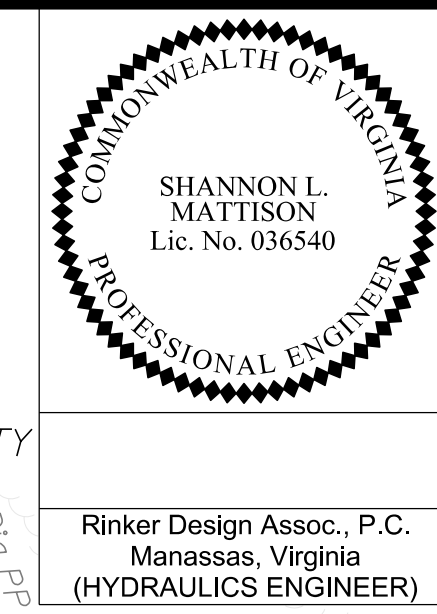
SCALE	VDOT PROJECT NO.	SHEET NO.
0 50' 100'	0495-029-419	13 AREA 3

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

# Drainage Plan

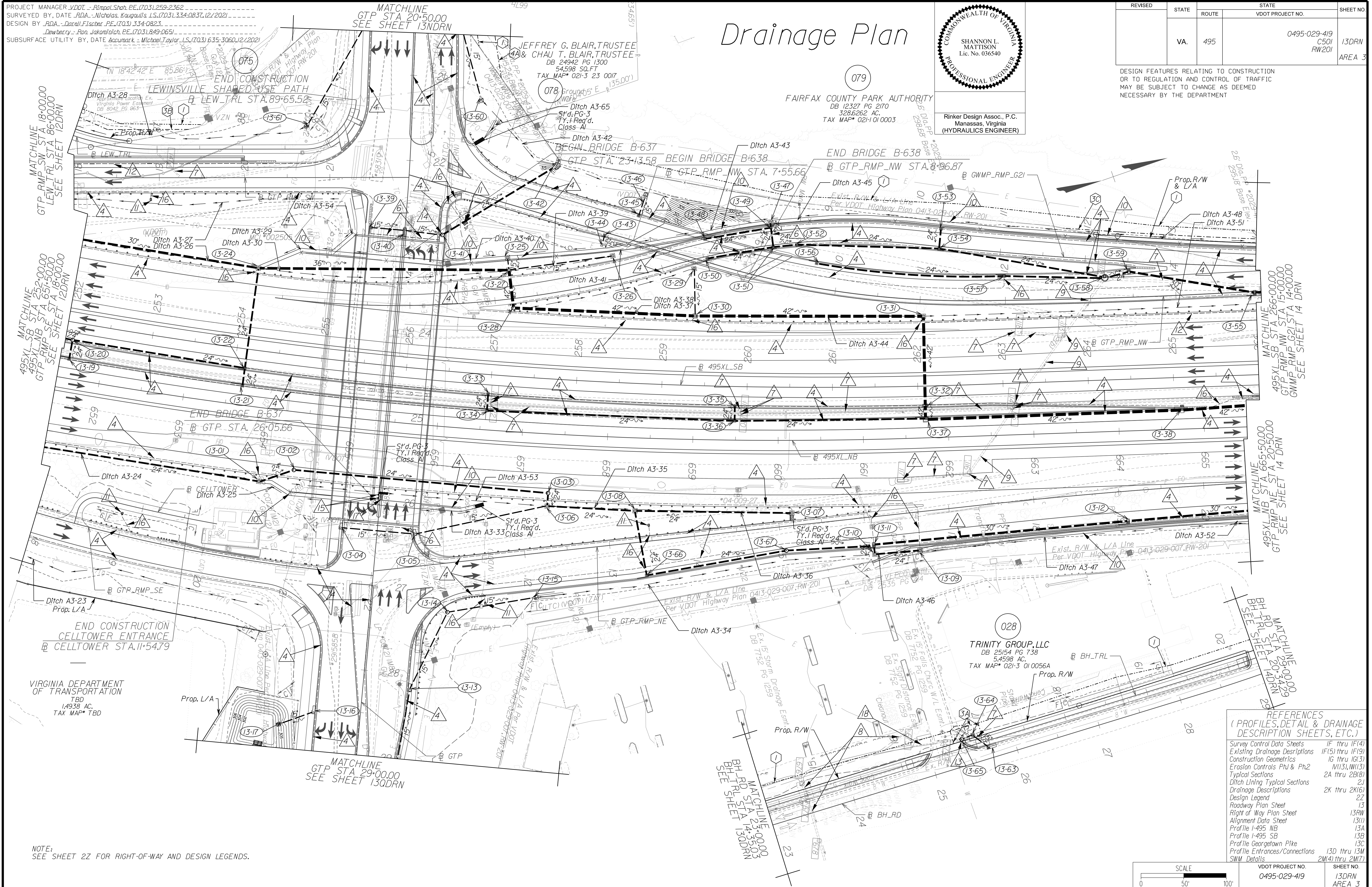


REVISED	STATE	ROUTE	STATE	VDOT PROJECT NO.	SHEET NO.
	VA.	495		0495-029-419 C501 RW201	13DRN AREA 3

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

FAIRFAX COUNTY PARK AUTHORITY  
DB 12327 PG 2170  
328.6262 AC.  
TAX MAP\* 021-101 0003

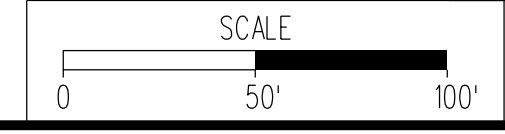
Rinker Design Assoc., P.C.  
Manassas, Virginia  
(HYDRAULICS ENGINEER)



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(3)
Erosion Controls Ph1 & Ph2	1N(1), 1N(13)
Typical Sections	2A thru 2B(8)
Ditch Lining Typical Sections	2J
Drainage Descriptions	2K thru 2K(6)
Design Legend	22
Roadway Plan Sheet	13
Right of Way Plan Sheet	13RW
Alignment Data Sheet	13(1)
Profile 1-495 NB	13A
Profile 1-495 SB	13B
Profile Georgetown Pike	13C
Profile Entrances/Connections	13D thru 13M
SWM Details	2M(4) thru 2M(7)



VDOT PROJECT NO.	SHEET NO.
0495-029-419	13DRN AREA 3

APPROVED FOR CONSTRUCTION

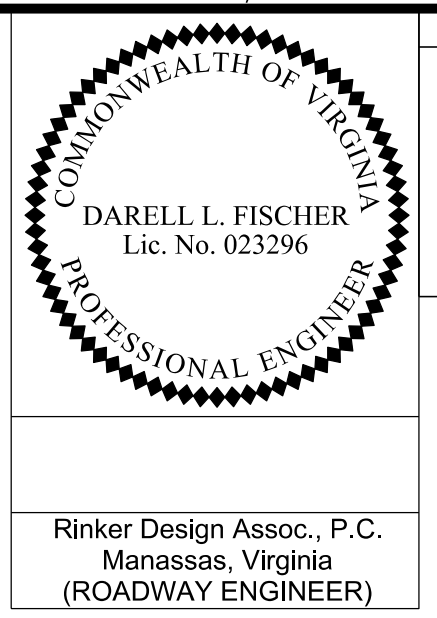






PROJECT MANAGER\_VDOT - Rupal Shah, P.E. (703) 259-2362  
SURVEYED BY, DATE\_RDA - Nicholas Kaugaulis, L.S. (703) 334-0837, 12/2021  
DESIGN BY\_RDA - Darrell Fischer, P.E. (703) 334-0823  
Subsurface Utility By, DATE\_Accumark - Michael Taylor, L.S. (703) 635-3060, 12/2021

# Alignment Data

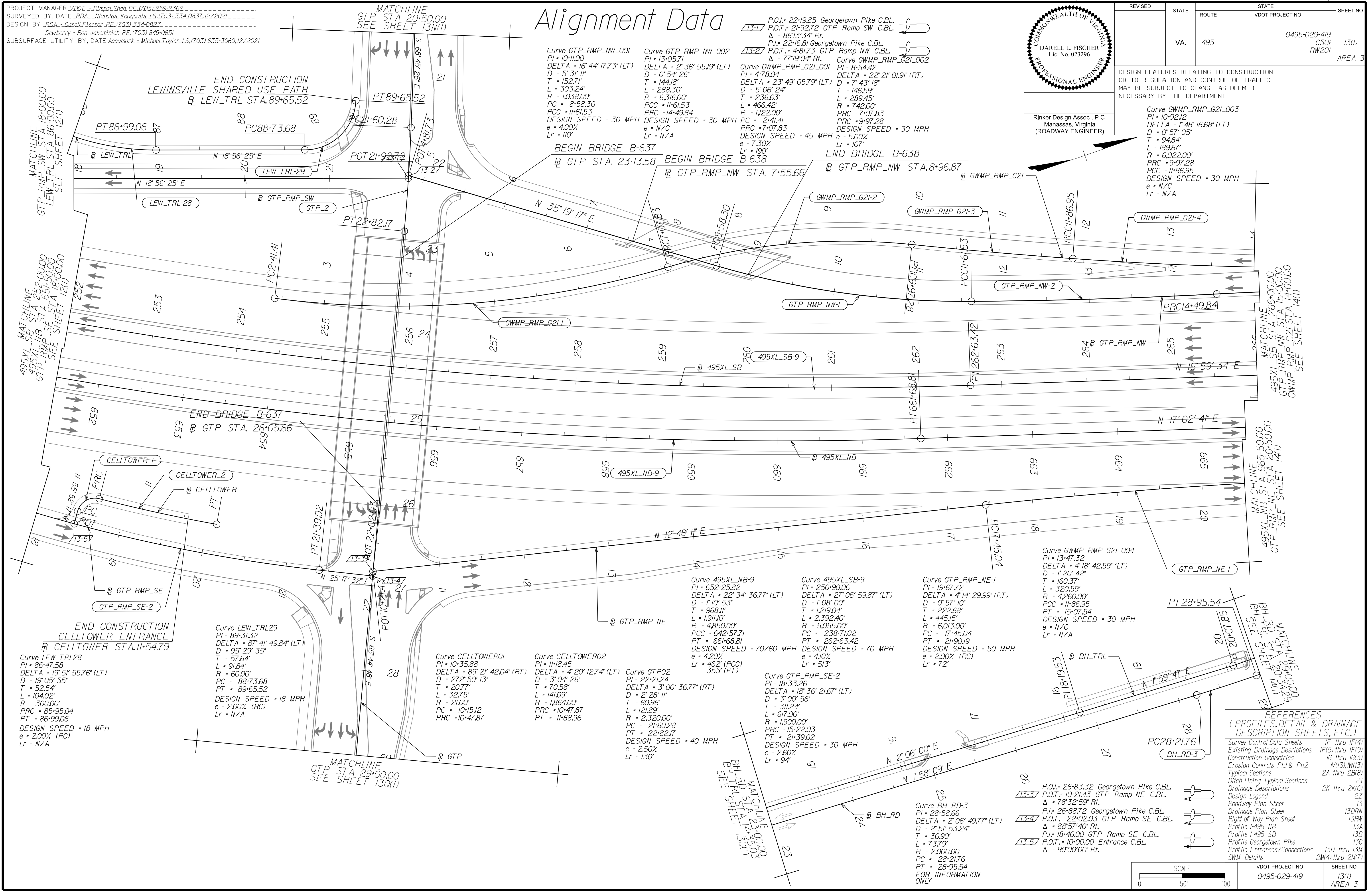


REVISED	STATE	ROUTE	STATE	VDOT PROJECT NO.	SHEET NO.
	VA	495		0495-029-419 C501 RW201	13(1) AREA 3

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\_G21\_003  
 PI = 10-92.12  
 DELTA = 1° 48' 16.68" (LT)  
 D = 0' 57' 05"  
 T = 94.84'  
 L = 189.67'  
 R = 6,022.00'  
 PRC = 9-97.28  
 PCC = 11-86.95  
 DESIGN SPEED = 30 MPH  
 e = N/C  
 Lr = N/A



Curve GTP\_RMP\_NW\_001  
 PI = 10-11.00  
 DELTA = 16° 44' 17.73" (LT)  
 D = 5' 31" 11"  
 T = 152.71'  
 L = 303.24'  
 R = 1038.00'  
 PCC = 8-58.30  
 DESIGN SPEED = 30 MPH  
 e = 4.00%  
 Lr = 110'

Curve GTP\_RMP\_NW\_002  
 PI = 13-05.71  
 DELTA = 2° 36' 55.19" (LT)  
 D = 0' 54' 26"  
 T = 144.18'  
 L = 288.30'  
 R = 6,316.00'  
 PCC = 11-61.53  
 DESIGN SPEED = 30 MPH  
 e = N/C  
 Lr = N/A

Curve GWMP\_RMP\_G21\_001  
 PI = 4-78.04  
 DELTA = 23° 49' 05.79" (LT)  
 D = 5' 06' 24"  
 T = 236.63'  
 L = 466.42'  
 R = 1,122.00'  
 PRC = 2-41.41  
 DESIGN SPEED = 45 MPH  
 e = 7.30%  
 Lr = 190'

Curve GWMP\_RMP\_G21\_002  
 PI = 8-54.42  
 DELTA = 22° 21' 01.9" (RT)  
 D = 7' 43' 18"  
 T = 146.59'  
 L = 289.45'  
 R = 742.00'  
 PRC = 7-07.83  
 DESIGN SPEED = 30 MPH  
 e = 5.00%  
 Lr = 107'

Curve LEW\_TRL28  
 PI = 86-47.58  
 DELTA = 19° 51' 55.76" (LT)  
 D = 19' 05' 55"  
 T = 52.54'  
 L = 104.02'  
 R = 3,000.00'  
 PRC = 85-95.04  
 PT = 86-99.06  
 DESIGN SPEED = 18 MPH  
 e = 2.00% (RC)  
 Lr = N/A

Curve LEW\_TRL29  
 PI = 89-31.32  
 DELTA = 87° 41' 49.84" (LT)  
 D = 95' 29' 35"  
 T = 57.64'  
 L = 91.84'  
 R = 60.00'  
 PCC = 88-73.68  
 PT = 89-65.52  
 DESIGN SPEED = 18 MPH  
 e = 2.00% (RC)  
 Lr = N/A

Curve CELLTOWER01  
 PI = 10-35.88  
 DELTA = 89° 21' 42.04" (RT)  
 D = 27' 25' 13"  
 T = 20.77'  
 L = 32.75'  
 R = 21.00'  
 PC = 10-15.12  
 PRC = 10-47.87

Curve CELLTOWER02  
 PI = 11-18.45  
 DELTA = 4° 20' 12.74" (LT)  
 D = 3' 04' 26"  
 T = 70.58'  
 L = 141.09'  
 R = 1,864.00'  
 PRC = 10-47.87  
 PT = 11-88.96

Curve GTP02  
 PI = 22-21.24  
 DELTA = 3° 00' 36.77" (RT)  
 D = 2' 28' 11"  
 T = 60.96'  
 L = 121.89'  
 R = 2,320.00'  
 PC = 21-60.28  
 PT = 22-82.17  
 DESIGN SPEED = 40 MPH  
 e = 2.50%  
 Lr = 130'

Curve GTP\_RMP\_SE-2  
 PI = 18-33.26  
 DELTA = 18° 36' 21.67" (LT)  
 D = 3' 00' 56"  
 T = 31.24'  
 L = 61.07'  
 R = 1,900.00'  
 PRC = 15-22.03  
 PT = 21-39.02  
 DESIGN SPEED = 30 MPH  
 e = 2.60%  
 Lr = 94'

Curve 495XL\_NB-9  
 PI = 652-25.82  
 DELTA = 27° 34' 36.77" (LT)  
 D = 1' 10' 53"  
 T = 968.11'  
 L = 1,911.00'  
 R = 4,850.00'  
 PCC = 642-57.71  
 PT = 661-68.81  
 DESIGN SPEED = 70/60 MPH  
 e = 4.20%  
 Lr = 462' (PCC)  
 395' (PT)

Curve 495XL\_SB-9  
 PI = 250-90.06  
 DELTA = 27° 06' 59.87" (LT)  
 D = 1' 08' 00"  
 T = 1,219.04'  
 L = 2,392.40'  
 R = 5,055.00'  
 PC = 238-71.02  
 PT = 262-63.42  
 DESIGN SPEED = 70 MPH  
 e = 4.10%  
 Lr = 513'

Curve GTP\_RMP\_NE-1  
 PI = 19-67.72  
 DELTA = 4° 14' 29.99" (RT)  
 D = 0' 57' 10"  
 T = 222.68'  
 L = 445.15'  
 R = 6,013.00'  
 PC = 17-45.04  
 PT = 21-90.19  
 DESIGN SPEED = 50 MPH  
 e = 2.00% (RC)  
 Lr = 72'

Curve GWMP\_RMP\_G21\_004  
 PI = 13-47.32  
 DELTA = 4° 18' 42.59" (LT)  
 D = 1' 20' 42"  
 T = 160.37'  
 L = 320.59'  
 R = 4,260.00'  
 PCC = 11-86.95  
 PT = 15-07.54  
 DESIGN SPEED = 30 MPH  
 e = N/C  
 Lr = N/A

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	10 thru 10(3)
Erosion Controls Ph1 & Ph2	N(13), N(13)
Typical Sections	2A thru 2B(8)
Ditch Linings Typical Sections	24
Drainage Descriptions	2K thru 2K(6)
Design Legend	22
Roadway Plan Sheet	13
Drainage Plan Sheet	13DRN
Right of Way Plan Sheet	13RW
Profile I-495 NB	13A
Profile I-495 SB	13B
Profile Georgetown Pike	13C
Profile Entrances/Connections	13D thru 13M
SWM Details	2M(4) thru 2M(7)

SCALE	VDOT PROJECT NO.	SHEET NO.
0 50' 100'	0495-029-419	13(1)
		AREA 3

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

# 495 Express Lanes Northbound

SHANNON L. MATTISON  
Lic. No. 036540  
PROFESSIONAL ENGINEER

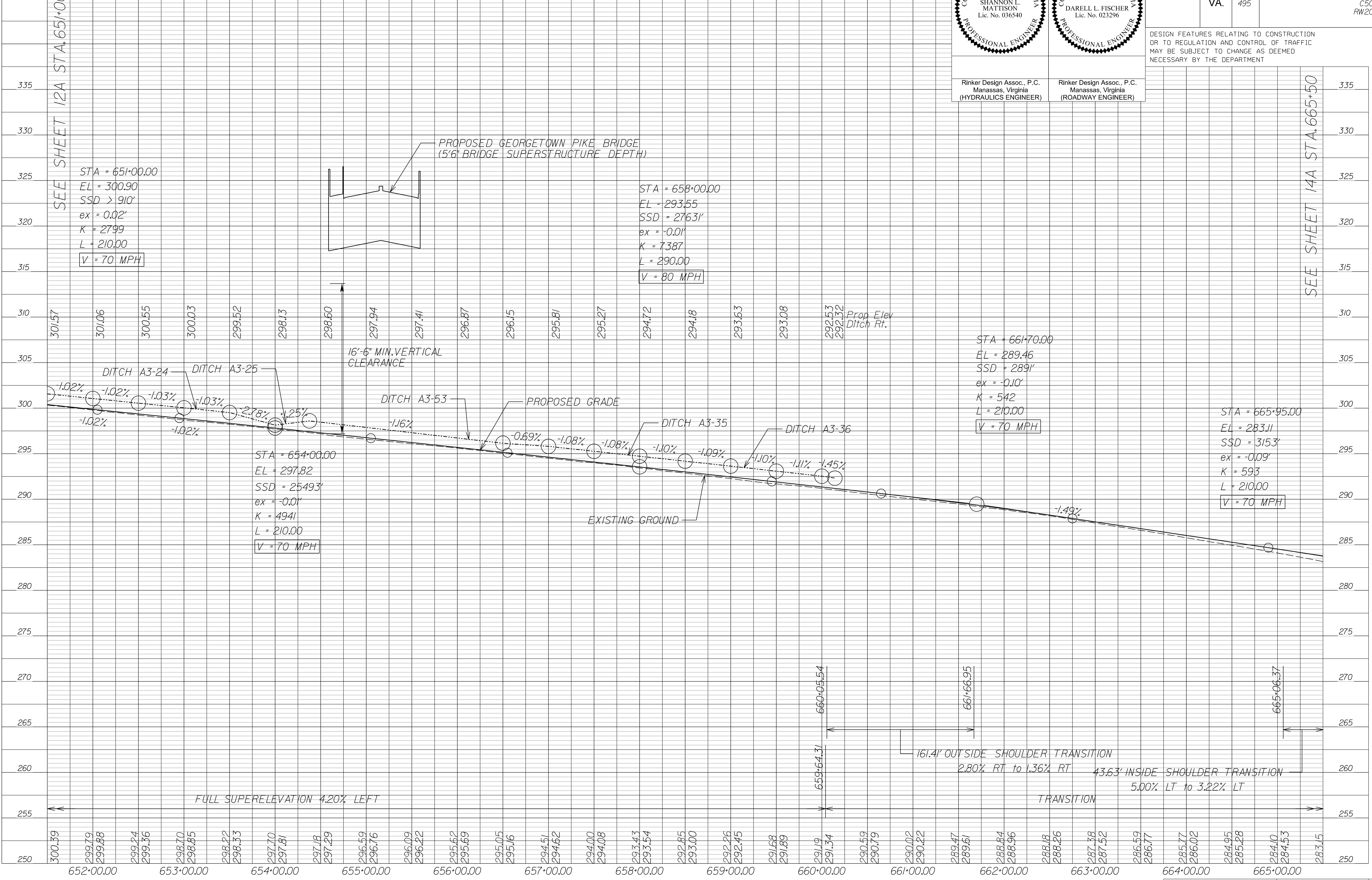
DARELL L. FISCHER  
Lic. No. 023296  
PROFESSIONAL ENGINEER

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	13A AREA 3

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 12A STA. 651+00

SEE SHEET 14A STA. 665+50

NOVA DISTRICT

10/16/2022

APPROVED FOR CONSTRUCTION

SCALE: HORIZ: 1"=50', VERT: 1"=5'

VDOT PROJECT NO. 0495-029-419

SHEET NO. 13A AREA 3



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 E Fischer PE (703) 334-0823  
SUBSURFACE UTILITY BY DATE\_Accumark - Michael Taylor LS (703) 635-3060 J2/2021

# 495 Express Lanes Southbound

SHANNON L. MATTISON  
Lic. No. 036540  
PROFESSIONAL ENGINEER

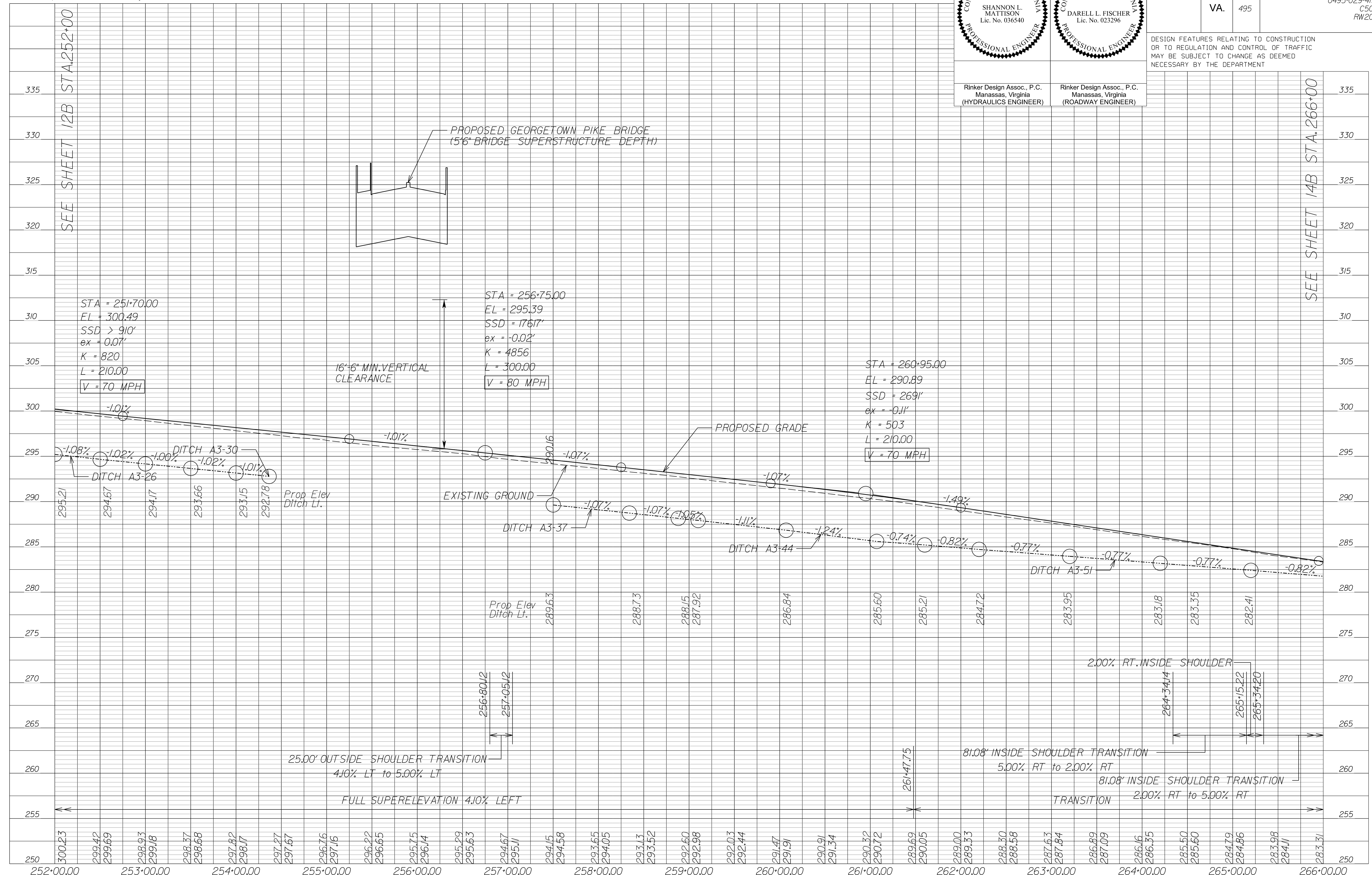
DARELL L. FISCHER  
Lic. No. 023296  
PROFESSIONAL ENGINEER

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	13B AREA 3

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

10/16/2022

APPROVED FOR CONSTRUCTION

SCALE: HORIZ: 1"=50' VERT: 1"=5'

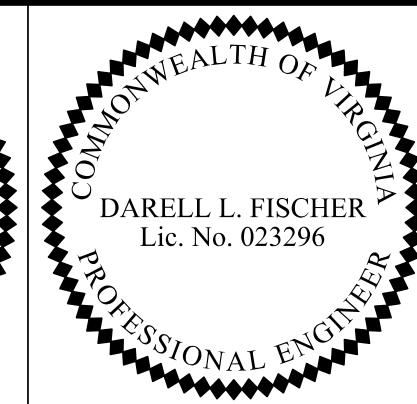
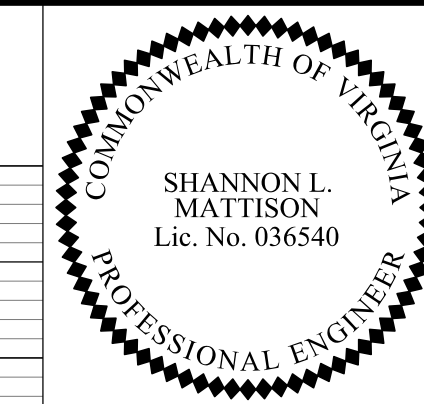
VDOT PROJECT NO. 0495-029-419

SHEET NO. 13B AREA 3



PROJECT MANAGER\_VDOT - Rimal Stab PE (703) 259-2362  
SURVEYED BY\_DATE - BDA - Nicolas Kougoullis LS (703) 334-0837 12/2021  
DESIGN BY\_BDA - Dorell Elischer PE (703) 334-0823  
SUBSURFACE UTILITY BY\_DATE Accurmark - Michael Taylor LS (703) 635-3060 12/2021

# Georgetown Pike

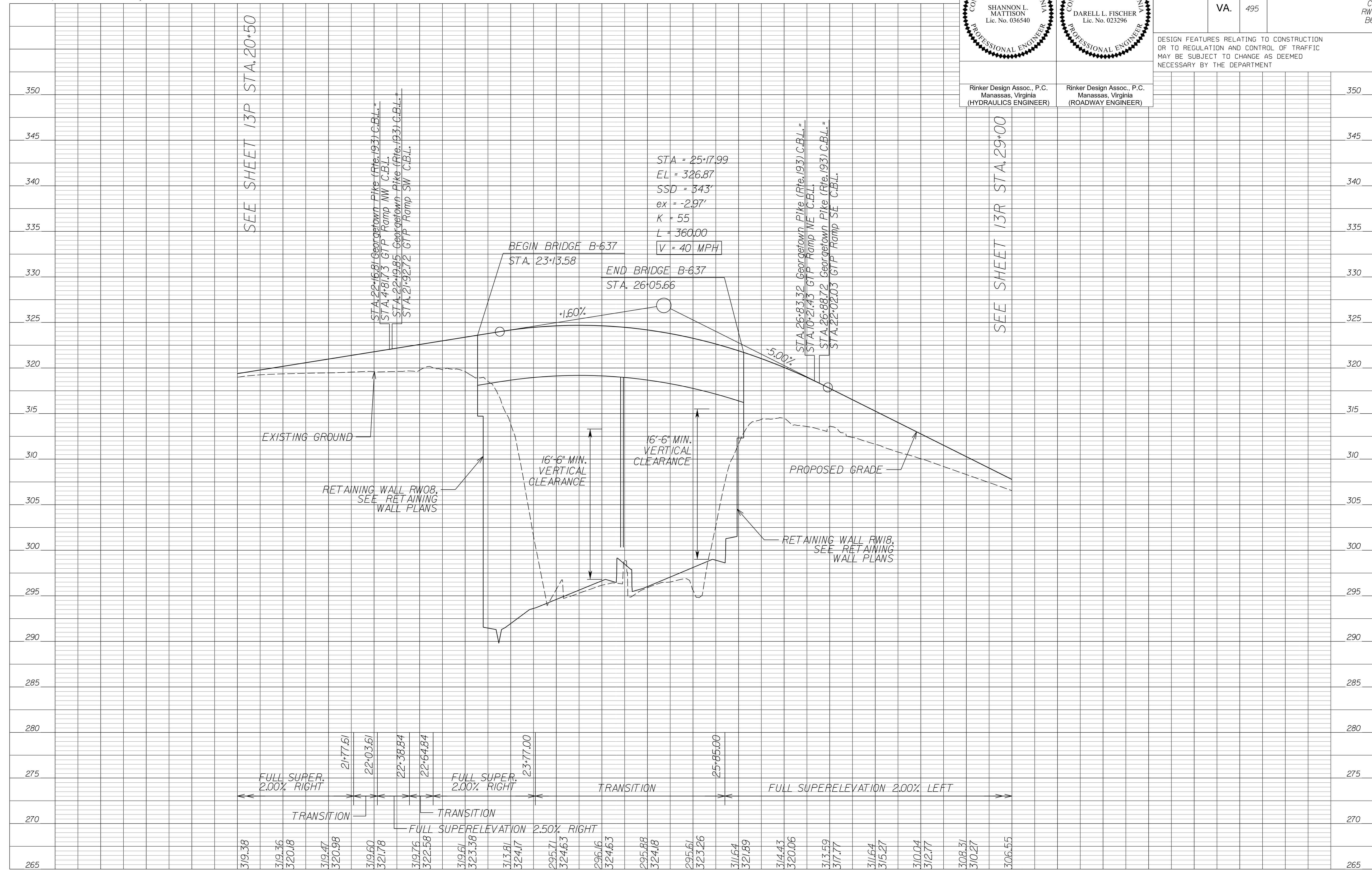


Rinker Design Assoc., P.C.  
Manassas, Virginia  
(HYDRAULICS ENGINEER)

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

REVISED	STATE	ROUTE	STATE PROJECT	SHEET NO
	VA.	495	0495-029-419 C501 RW201 B637	13C AREA 3

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

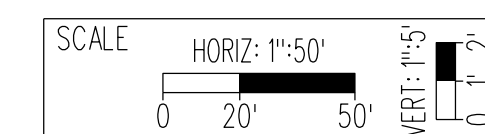


SEE SHEET 13P STA. 20+50

SEE SHEET 13R STA. 29+00

NOVA DISTRICT

10/16/2022



VDOT PROJECT NO. 0495-029-419

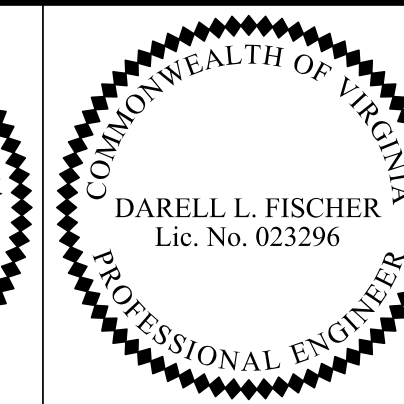
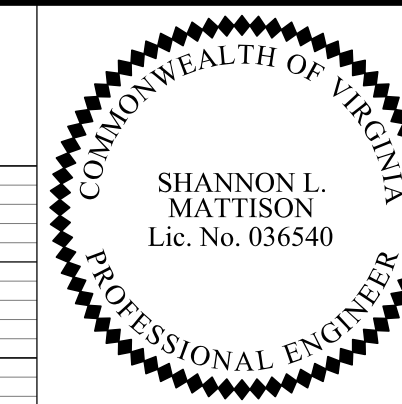
SHEET NO. 13C AREA 3

APPROVED FOR CONSTRUCTION



PROJECT MANAGER\_VDOT - Rimpal Shah, PE, (703) 259-2362  
SURVEYED BY, DATE - BDA - Nicolas Kougoullis, 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

# Lewinsville Shared Use Path

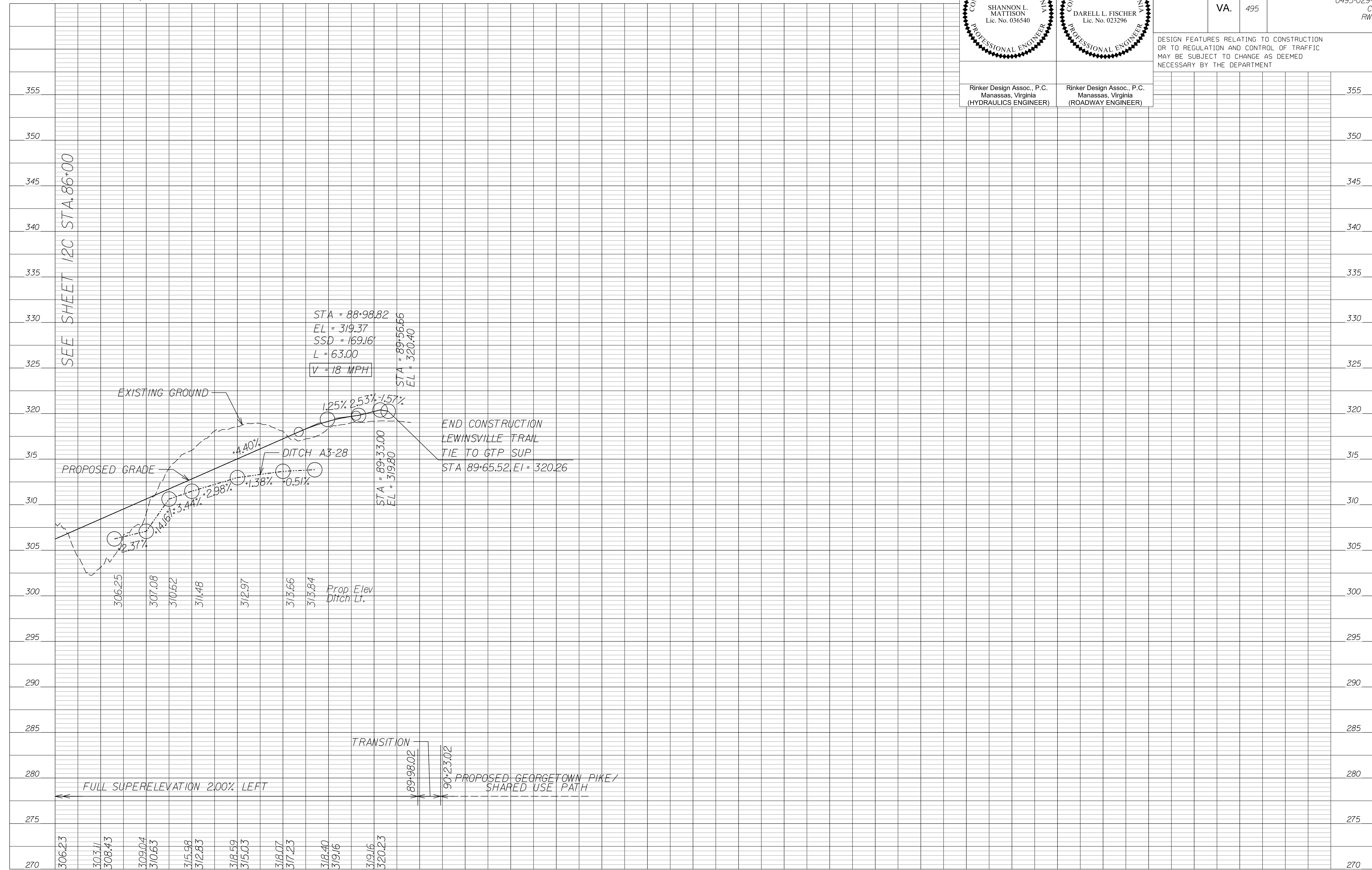


Rinker Design Assoc., P.C.  
Manassas, Virginia  
(HYDRAULICS ENGINEER)

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

REVISED	STATE	ROUTE	STATE PROJECT	SHEET NO.
	VA.	495	0495-029-419 C501 RW201	13D AREA 3

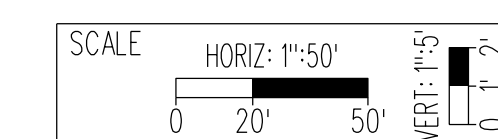
DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT



SEE SHEET 12C STA. 86+00

NOVA DISTRICT

10/16/2022



VDOT PROJECT NO. 0495-029-419  
SHEET NO. 13D AREA 3

APPROVED FOR CONSTRUCTION



PROJECT MANAGER\_VDOT - Rimpal 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\_Accumark - Michael Taylor LS (703) 635-3060 12/2/2021

# Georgetown Pike Ramp Southeast

SHANNON L. MATTISON  
Lic. No. 036540  
PROFESSIONAL ENGINEER

DARELL L. FISCHER  
Lic. No. 023296  
PROFESSIONAL ENGINEER

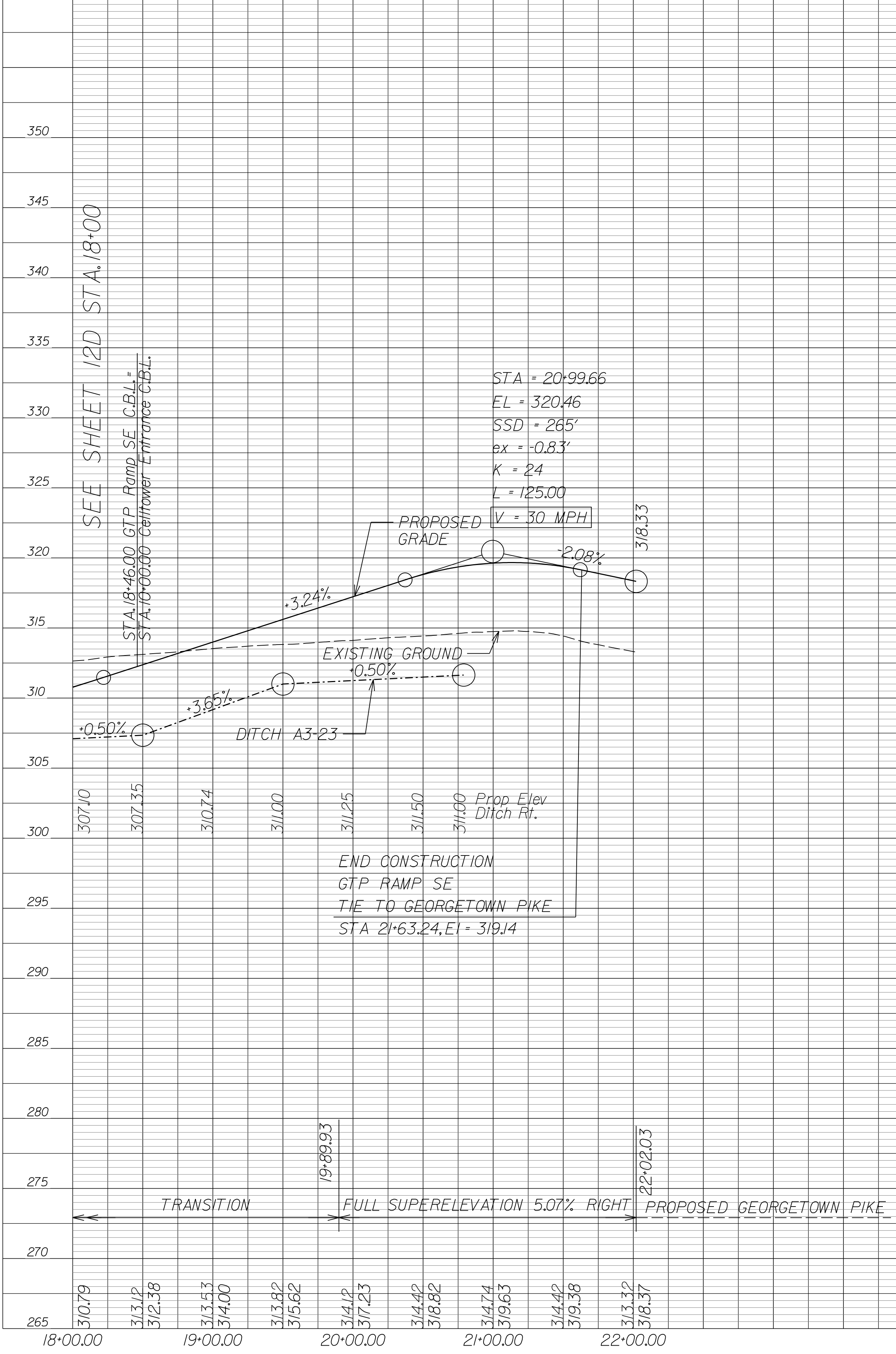
Rinker Design Assoc., P.C.  
Manassas, Virginia  
(HYDRAULICS ENGINEER)

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

REVISED	STATE	ROUTE	STATE PROJECT	SHEET NO
	VA.	495	0495-029-419 C501 RW201	13E AREA 3

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

					350
					345
					340
					335
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					325
					320
					315
					310
					305
					300
					295
					290
					285
					280
					275
					270
					265



NOVA DISTRICT

10/16/2022

SCALE HORIZ: 1"=50'  
VERT: 1"=5'

VDOT PROJECT NO. 0495-029-419

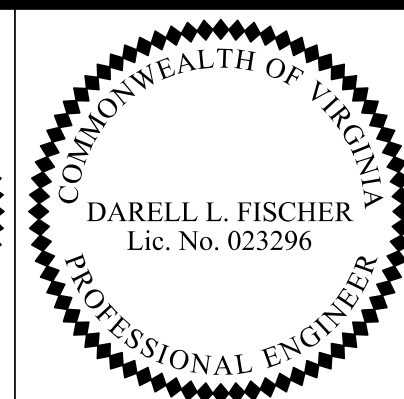
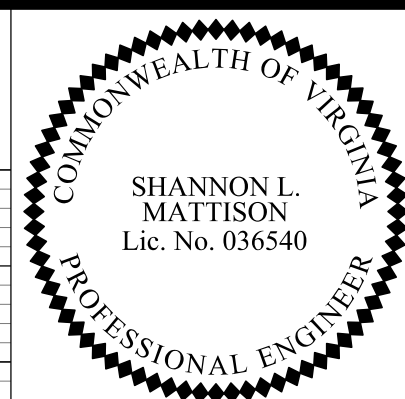
SHEET NO. 13E AREA 3

APPROVED FOR CONSTRUCTION



PROJECT MANAGER\_VDOT - Rimpal Stab PE (703) 259-2362  
SURVEYED BY\_DATE - BDA - Nicholas Kougoullis LS (703) 334-0837 12/2021  
DESIGN BY\_DATE - DARELL FISCHER PE (703) 334-0823  
SUBSURFACE UTILITY BY\_DATE - Accumark - Michael Taylor LS (703) 635-3060 12/2021

# Georgetown Pike Ramp Southwest



REVISED	STATE	ROUTE	STATE PROJECT	SHEET NO
	VA.	495	0495-029-419 C501 RW201	13F AREA 3

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)

350

345

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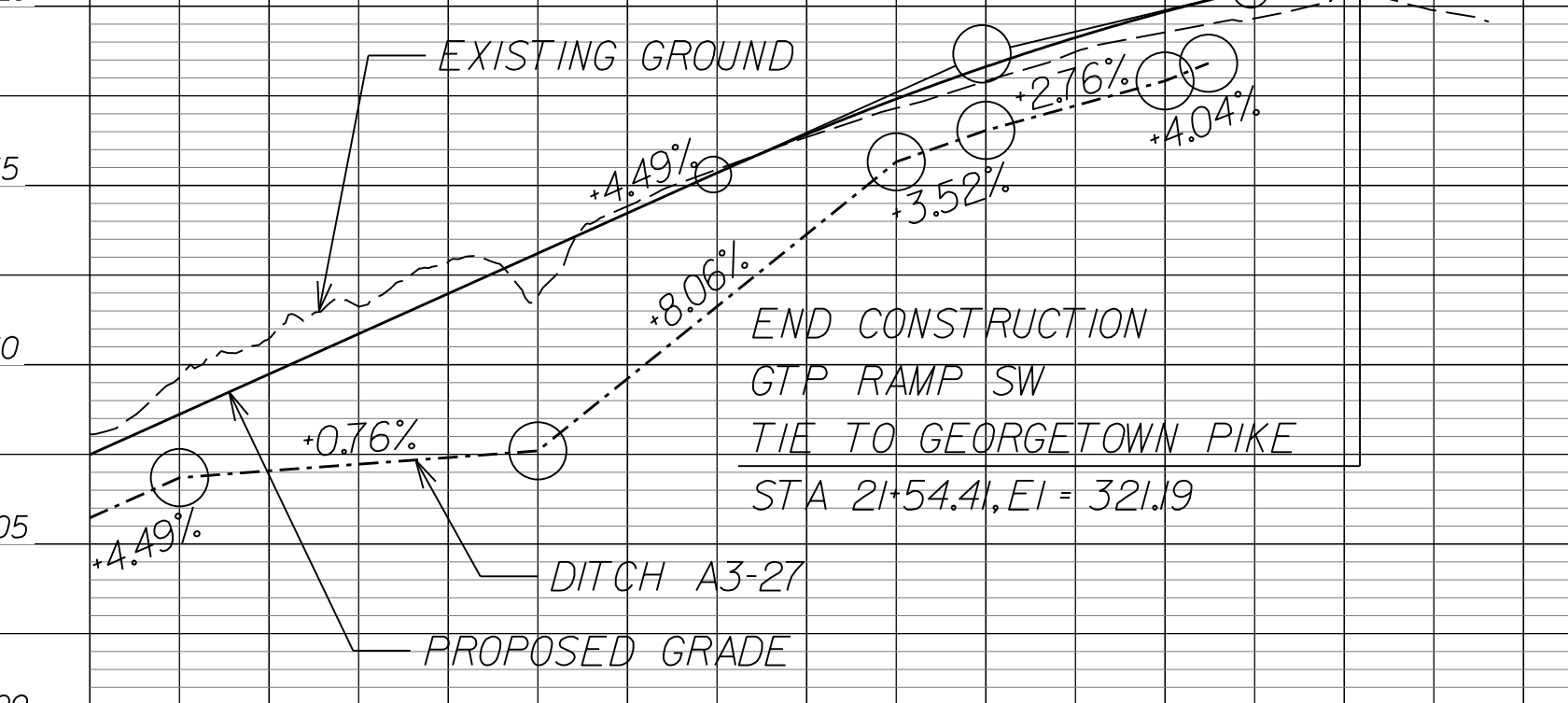
275

270

265

SEE SHEET 12E STA. 18+00

STA = 20+48.93  
EL = 318.67  
SSD = 587'  
ex = -0.40'  
K = 71  
L = 150.00  
V = 45 MPH



305.73  
306.85  
307.04  
307.41  
307.60  
309.61  
313.64  
315.66  
316.54  
317.92  
318.00  
Prop Elev Ditch Rt.

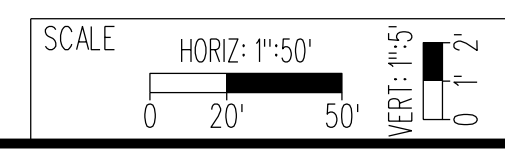
18+00.00  
19+00.00  
20+00.00  
21+00.00

21+92.72  
PROPOSED GEORGETOWN PIKE

FULL SUPERELEVATION 2.00% LEFT

NOVA DISTRICT

10/16/2022



VDOT PROJECT NO.  
0495-029-419

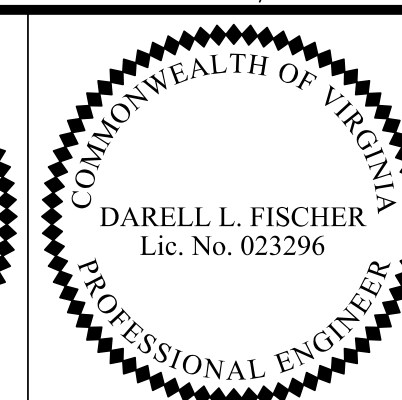
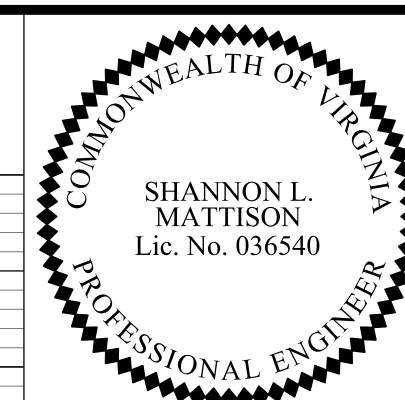
SHEET NO.  
13F  
AREA 3

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 - Accumark - Michael Taylor, LS, (703) 635-3060, 12/2/2021

# Georgetown Pike Ramp Northeast

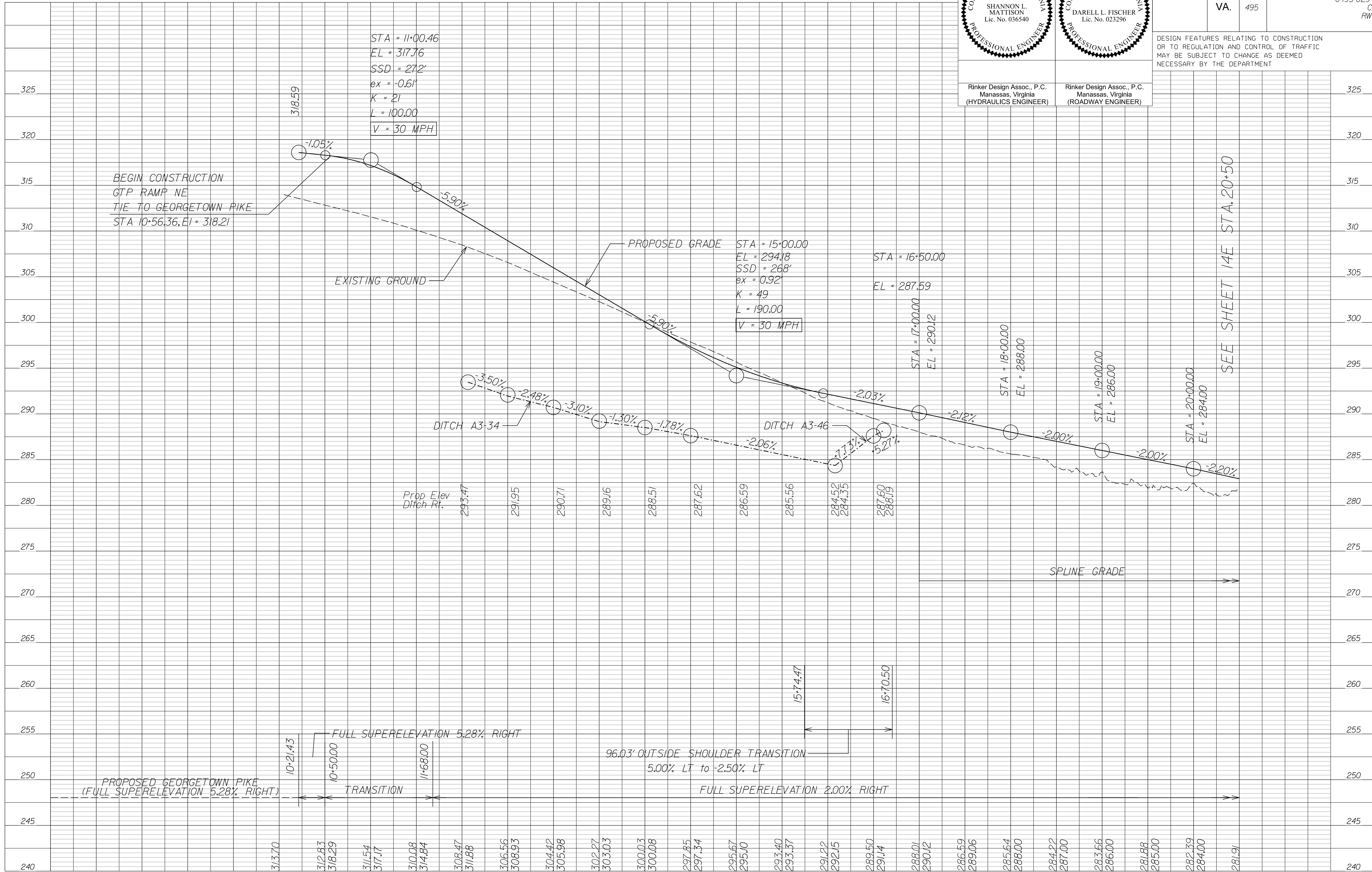


Rinker Design Assoc., P.C.  
Manassas, Virginia  
(HYDRAULICS ENGINEER)

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

REVISED	STATE	ROUTE	PROJECT	SHEET NO
	VA.	495	0495-029-419 CS01 RW201	13G AREA 3

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 14E STA. 20+50

NOVA DISTRICT

10/16/2022

APPROVED FOR CONSTRUCTION

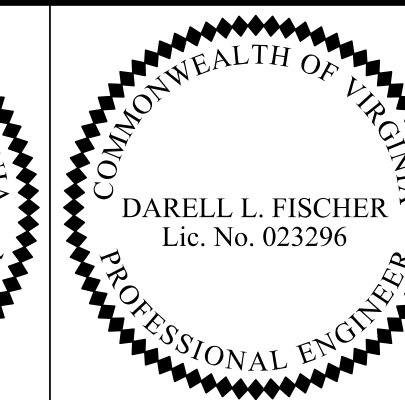
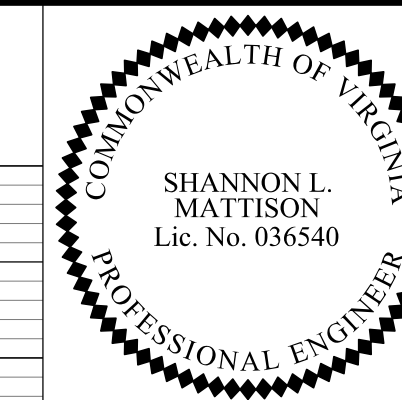






PROJECT MANAGER\_VDOT - Rimal Stab PE (703) 259-2362  
SURVEYED BY\_DATE - BDA - Nicolas Kougouls LS (703) 334-0837 12/2/2021  
DESIGN BY\_BDA - Darell Fischer PE (703) 334-0823  
SUBSURFACE UTILITY BY\_DATE Accumark - Michael Taylor LS (703) 635-3060 12/2/2021

# George Washington Memorial Pkwy Ramp G2I



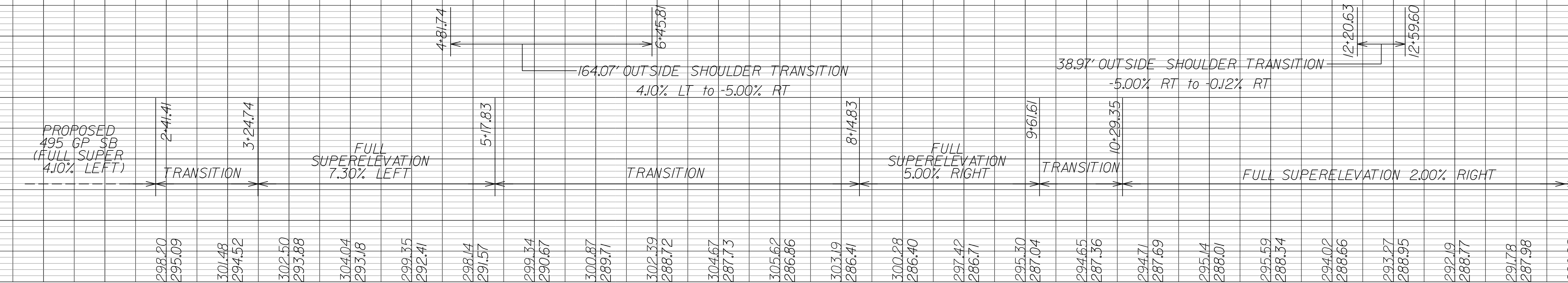
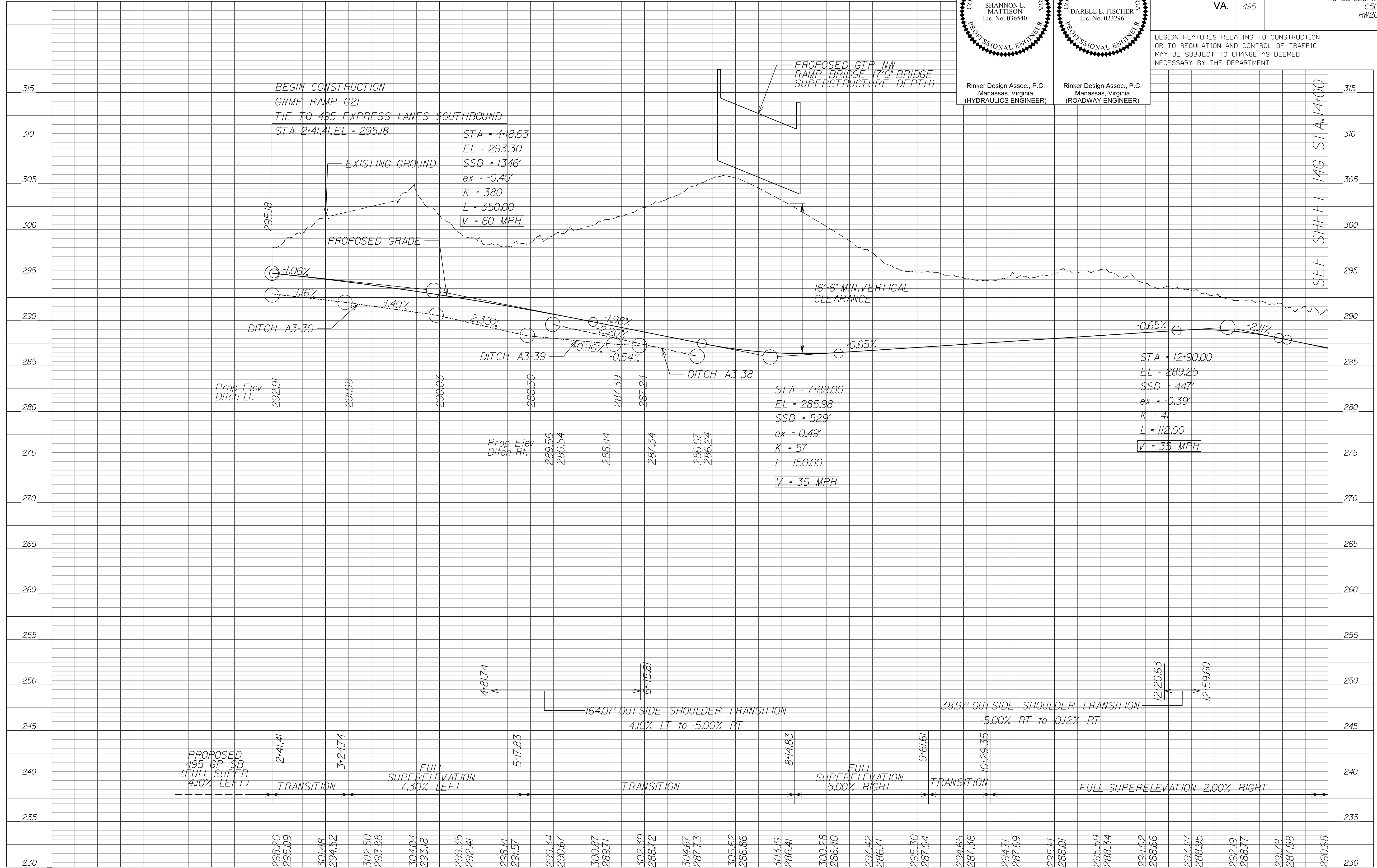
Rinker Design Assoc., P.C.  
Manassas, Virginia  
(HYDRAULICS ENGINEER)

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

REVISED	STATE	ROUTE	STATE PROJECT	SHEET NO
	VA.	495	0495-029-419 C501 RW201	13J AREA 3

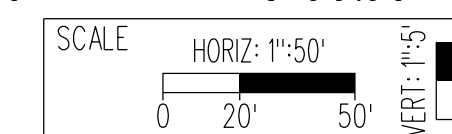
DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT

SEE SHEET 14G STA. 14+00



NOVA DISTRICT

10/16/2022



VDOT PROJECT NO.  
0495-029-419

SHEET NO.  
13J  
AREA 3

APPROVED FOR CONSTRUCTION



LIMITED ACCESS HIGHWAY

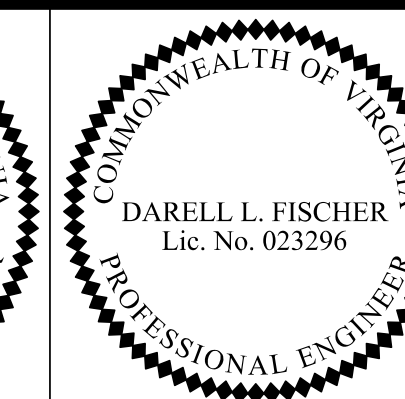
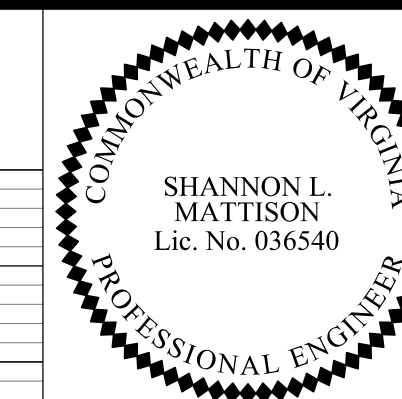
By Resolution of State Highway Commission dated October 4, 1956

LIMITED ACCESS HIGHWAY

By Resolution of Commonwealth Transportation Board dated May 17, 2022

PROJECT MANAGER\_VDOT - Rimpal Stab PE (703) 259-2362  
SURVEYED BY\_DATE - BDA - Nicholas Kougoulis 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

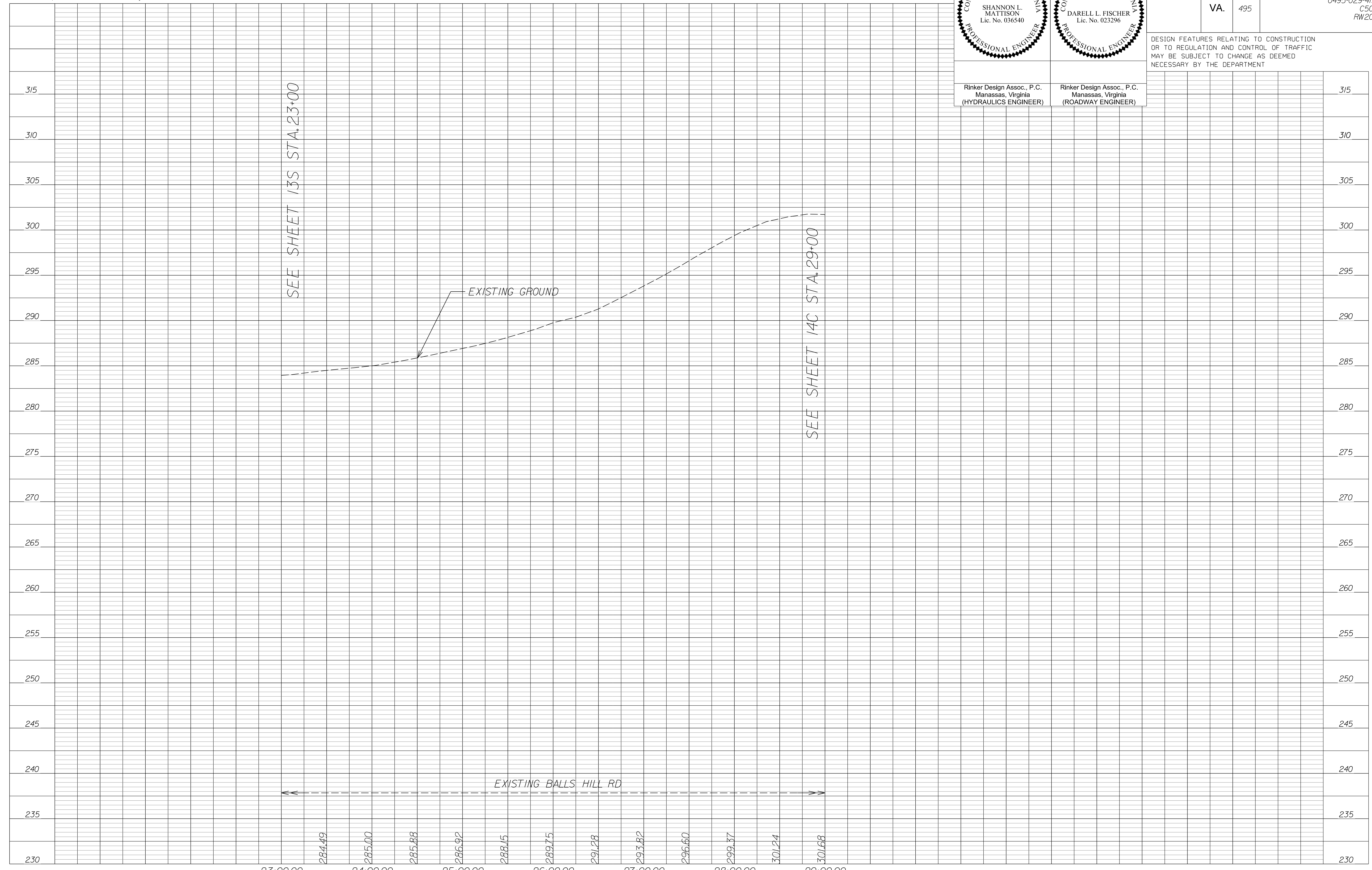


Rinker Design Assoc., P.C.  
Manassas, Virginia  
(HYDRAULICS ENGINEER)

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

REVISED	STATE		PROJECT		SHEET NO
	STATE	ROUTE	PROJECT	PROJECT	
	VA.	495	0495-029-419	C501 RW201	13K AREA 3

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

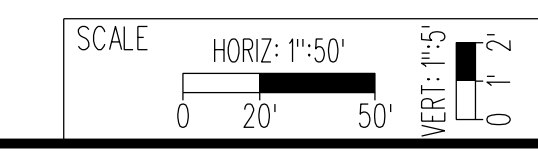


SEE SHEET 13S STA. 23+00

SEE SHEET 14C STA. 29+00

NOVA DISTRICT

10/16/2022



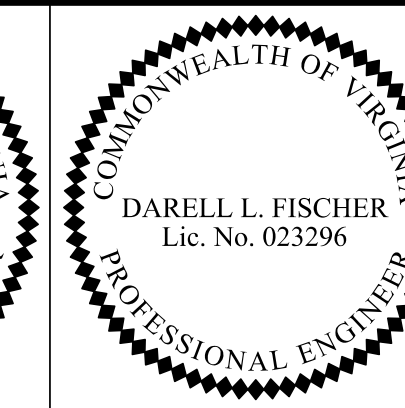
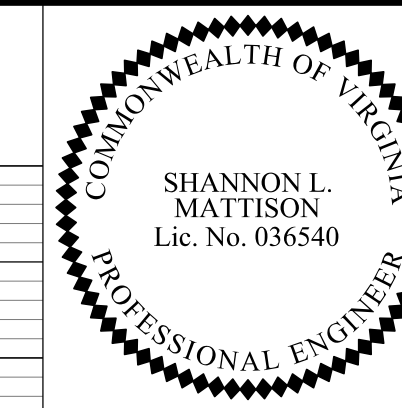
VDOT PROJECT NO. 0495-029-419  
SHEET NO. 13K AREA 3

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 - Darel L Fischer PE,(703) 334-0823  
SUBSURFACE UTILITY BY\_DATE\_Accumar - Michael Taylor LS,(703) 635-3060,12/2021

# Balls Hill Shared Use Path

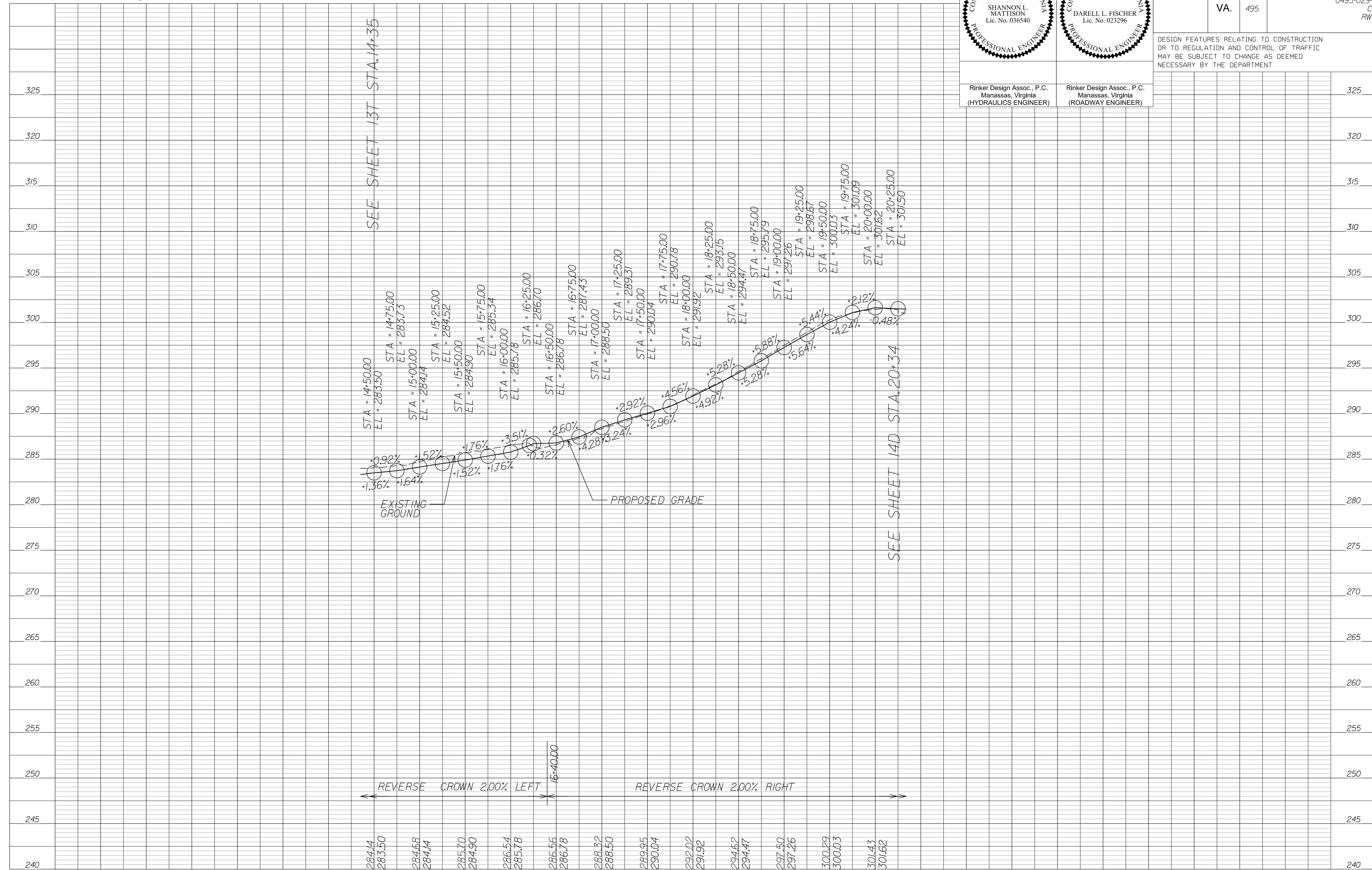


Rinker Design Assoc., P.C.  
Manassas, Virginia  
(HYDRAULICS ENGINEER)

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

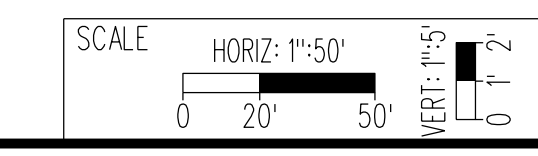
REVISED	STATE	ROUTE	STATE PROJECT	SHEET NO
	VA.	495	0495-029-419 C501 RW201	13L AREA 3

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

10/16/2022



VDOT PROJECT NO. 0495-029-419  
SHEET NO. 13L  
AREA 3


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 BY, DATE\_Accumark - Michael Taylor LS, (703) 635-3060, 12/2021

# CONNECTION AND ENTRANCE PROFILES

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



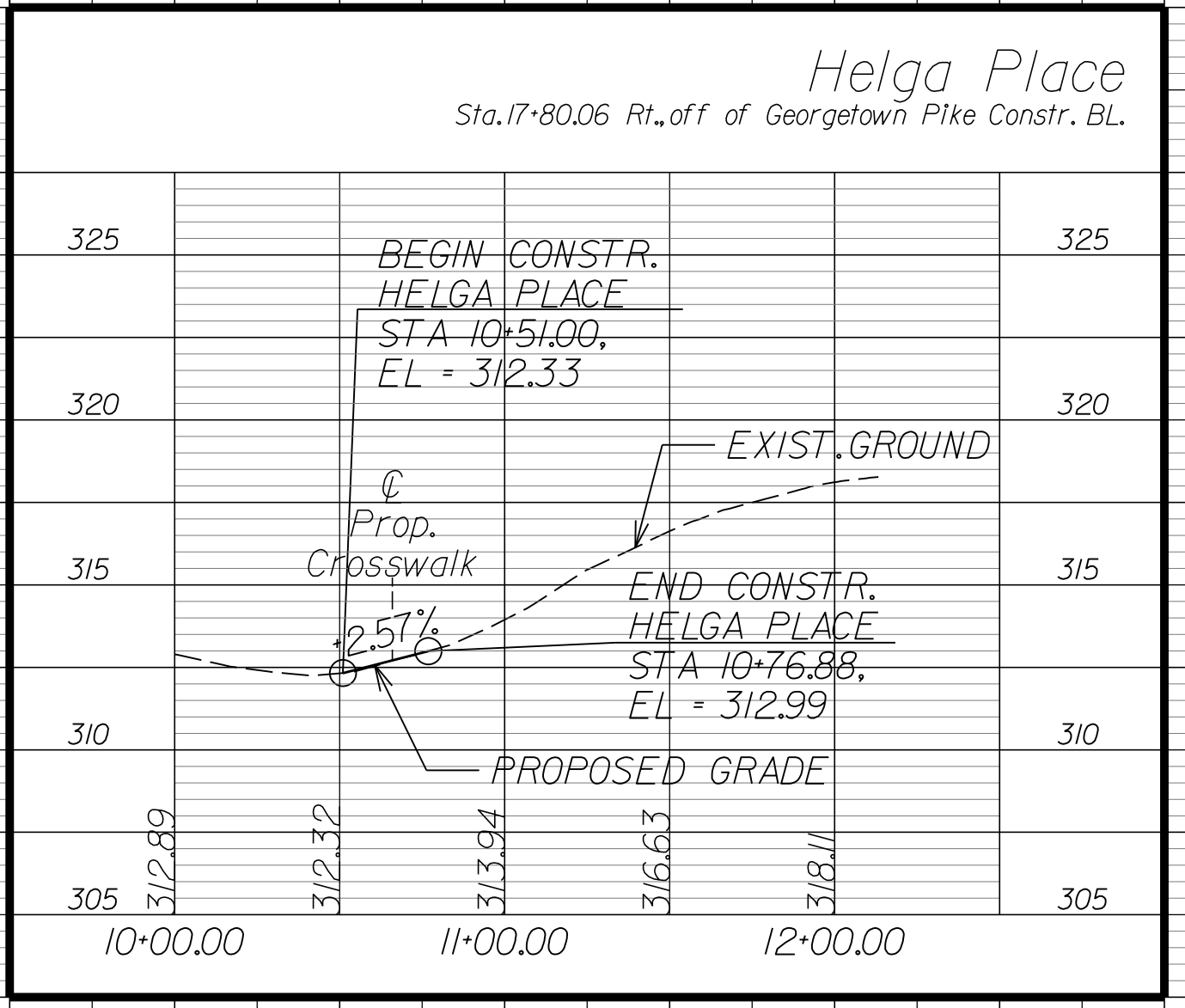
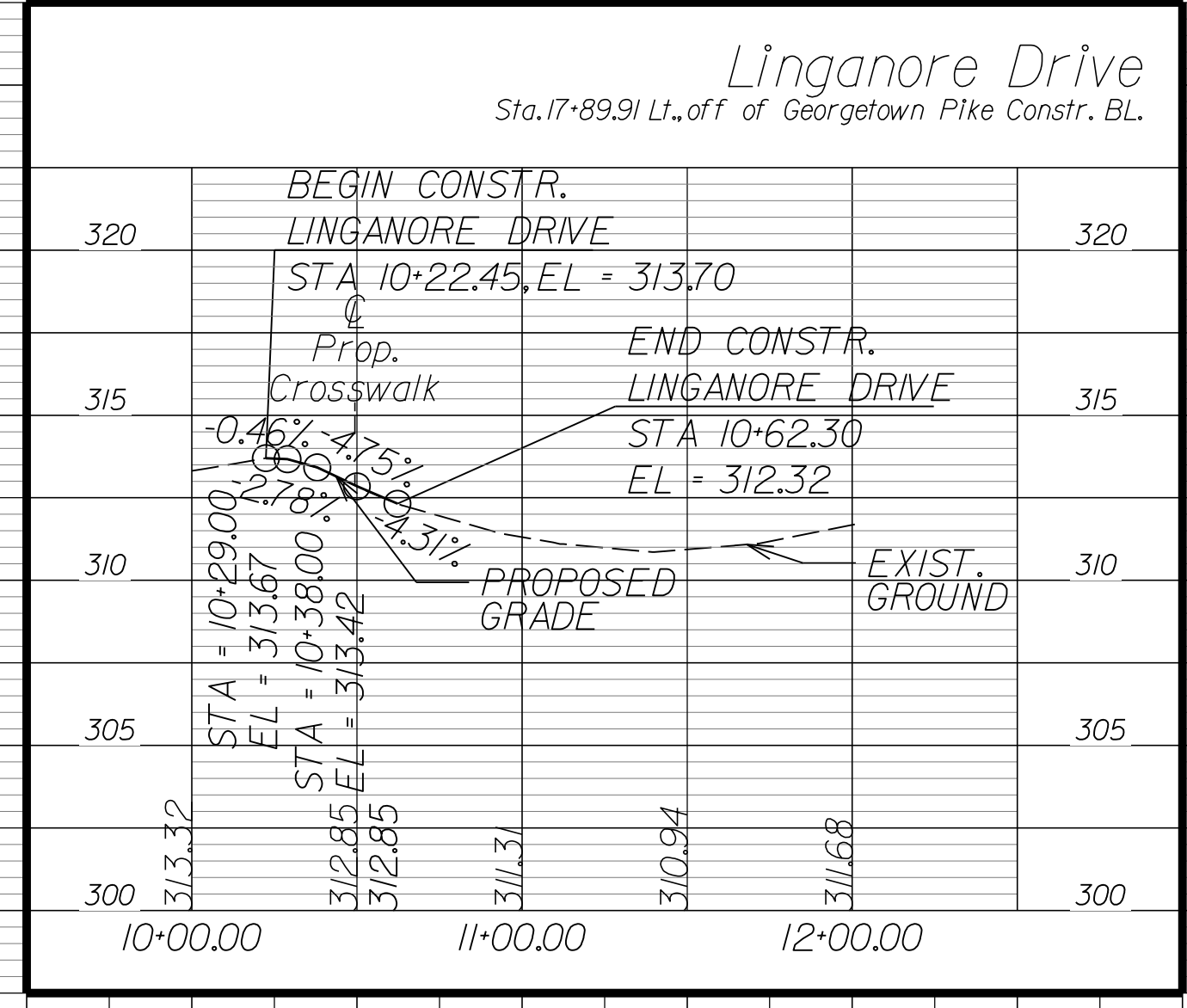
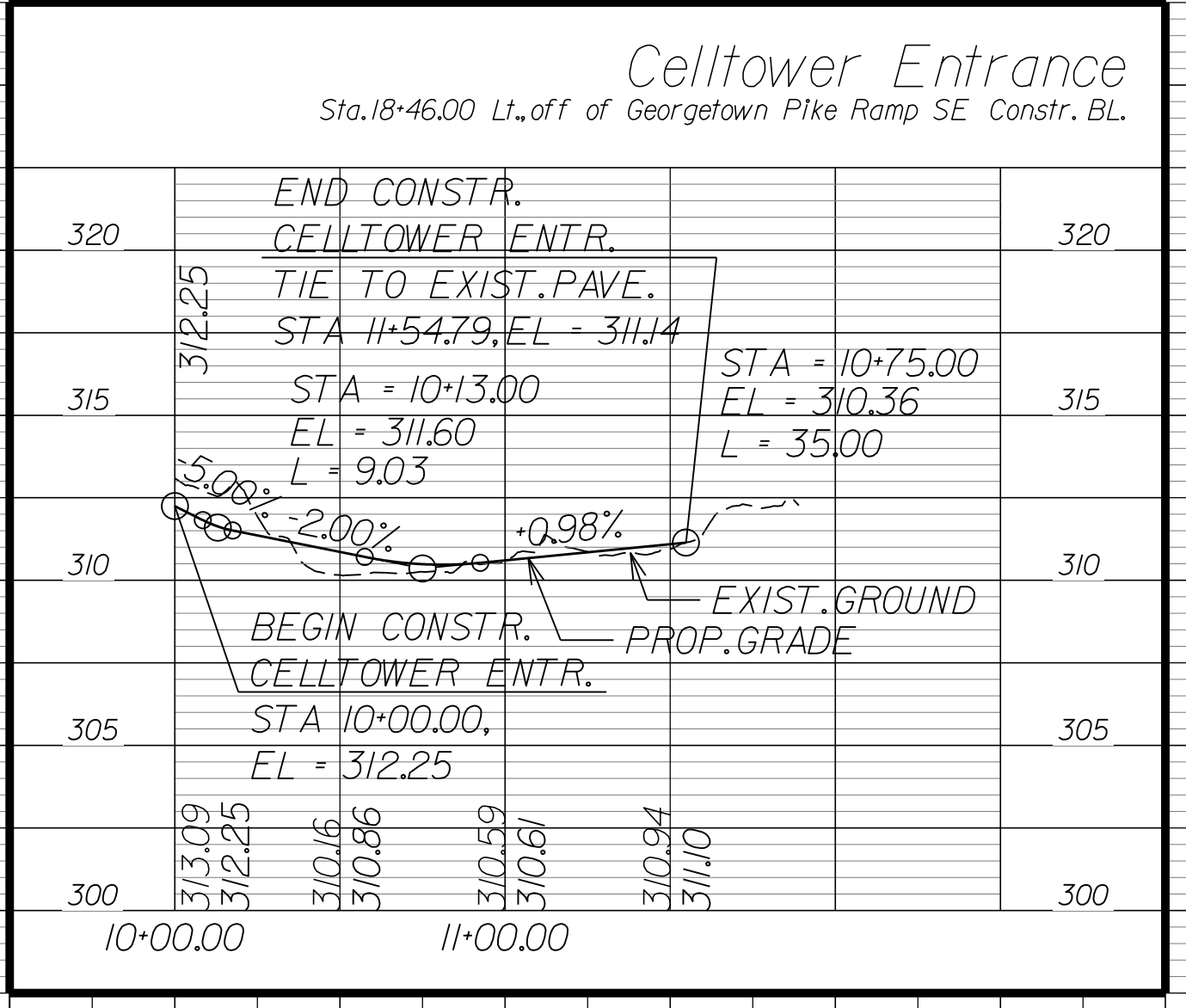
DARELL L. FISCHER  
Lic. No. 023296  
PROFESSIONAL ENGINEER

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	13M AREA 3

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

10/6/2022

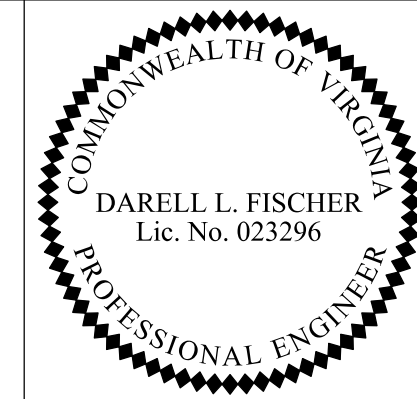
SCALE: HORIZ: 1"=50' VERT: 1"=5'  
 VDOT PROJECT NO. 0495-029-419  
 SHEET NO. 13M AREA 3

APPROVED FOR CONSTRUCTION



PROJECT MANAGER\_VDOT - RitaPal-Straub, 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

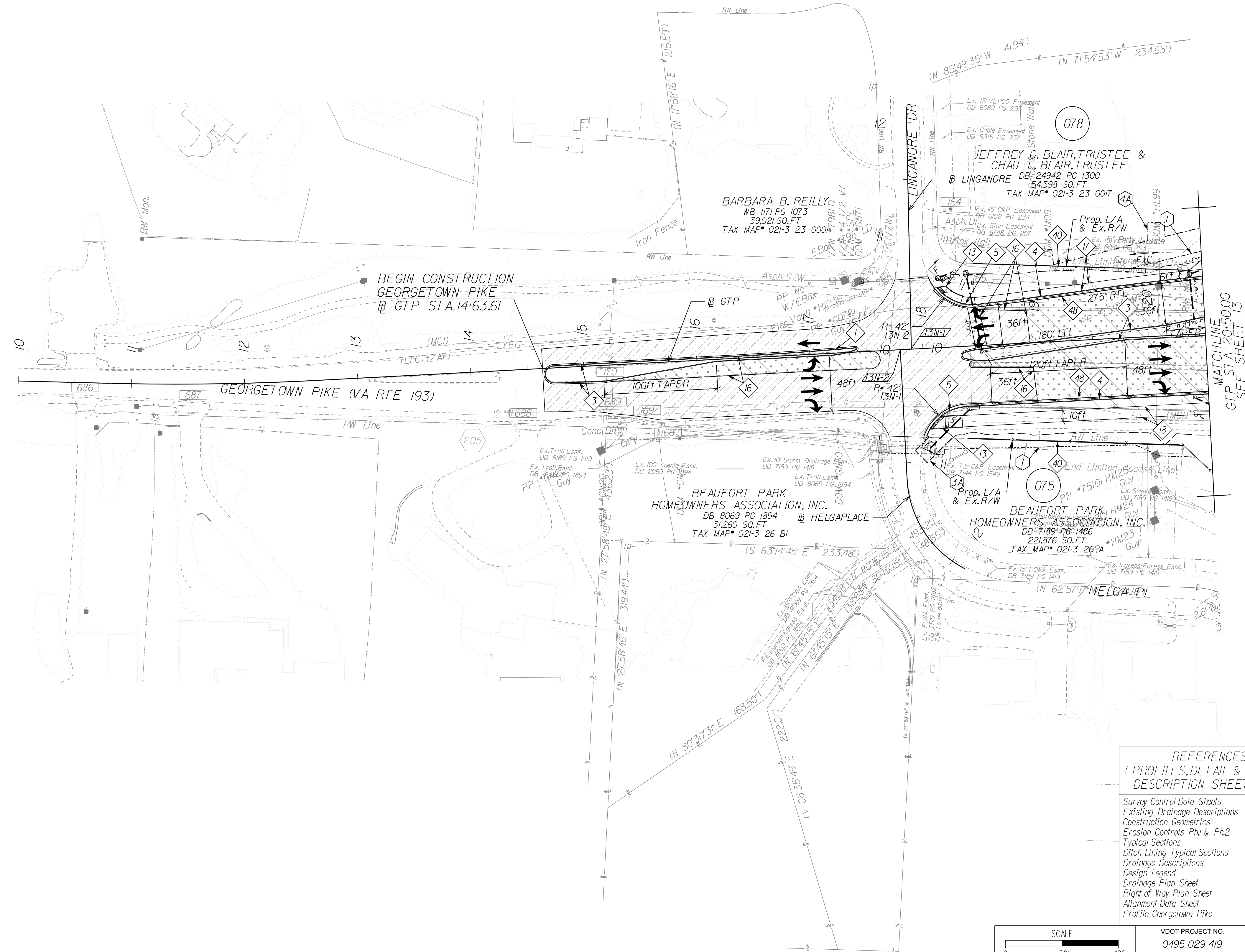
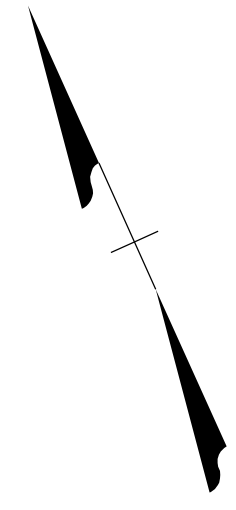


Rinker Design Assoc., P.C.  
 Manassas, Virginia  
 (ROADWAY ENGINEER)

REVISED	STATE	ROUTE	STATE	VDOT PROJECT NO.	SHEET NO.
	VA.	495		0495-029-419 C501 RW201	13N AREA 3

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

- 13N-1 P.J. = 17-89.81 Georgetown Pike C.B.L.  
 P.J. = 10-00.00 Llinganore Dr. C.B.L.  
 Δ = 88°11'38" Rt.
- 13N-2 P.O.I. = 17-80.06 Georgetown Pike C.B.L.  
 P.O.I. = 10-00.00 Helga Place C.B.L.  
 Δ = 90°00'00" Rt.

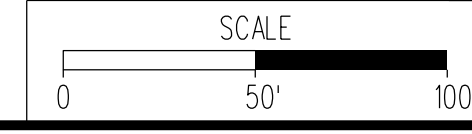


NOVA DISTRICT

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(3)
Erosion Controls Ph1 & Ph2	1V(13N), 1W(13N)
Typical Sections	2A thru 2B(8)
Ditch Lining Typical Sections	2J
Drainage Descriptions	2K thru 2K(6)
Design Legend	2Z
Drainage Plan Sheet	13NDRN
Right of Way Plan Sheet	13NRW
Alignment Data Sheet	13N(1)
Profile Georgetown Pike	13P



VDOT PROJECT NO. 0495-029-419	SHEET NO. 13N AREA 3
----------------------------------	----------------------------

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

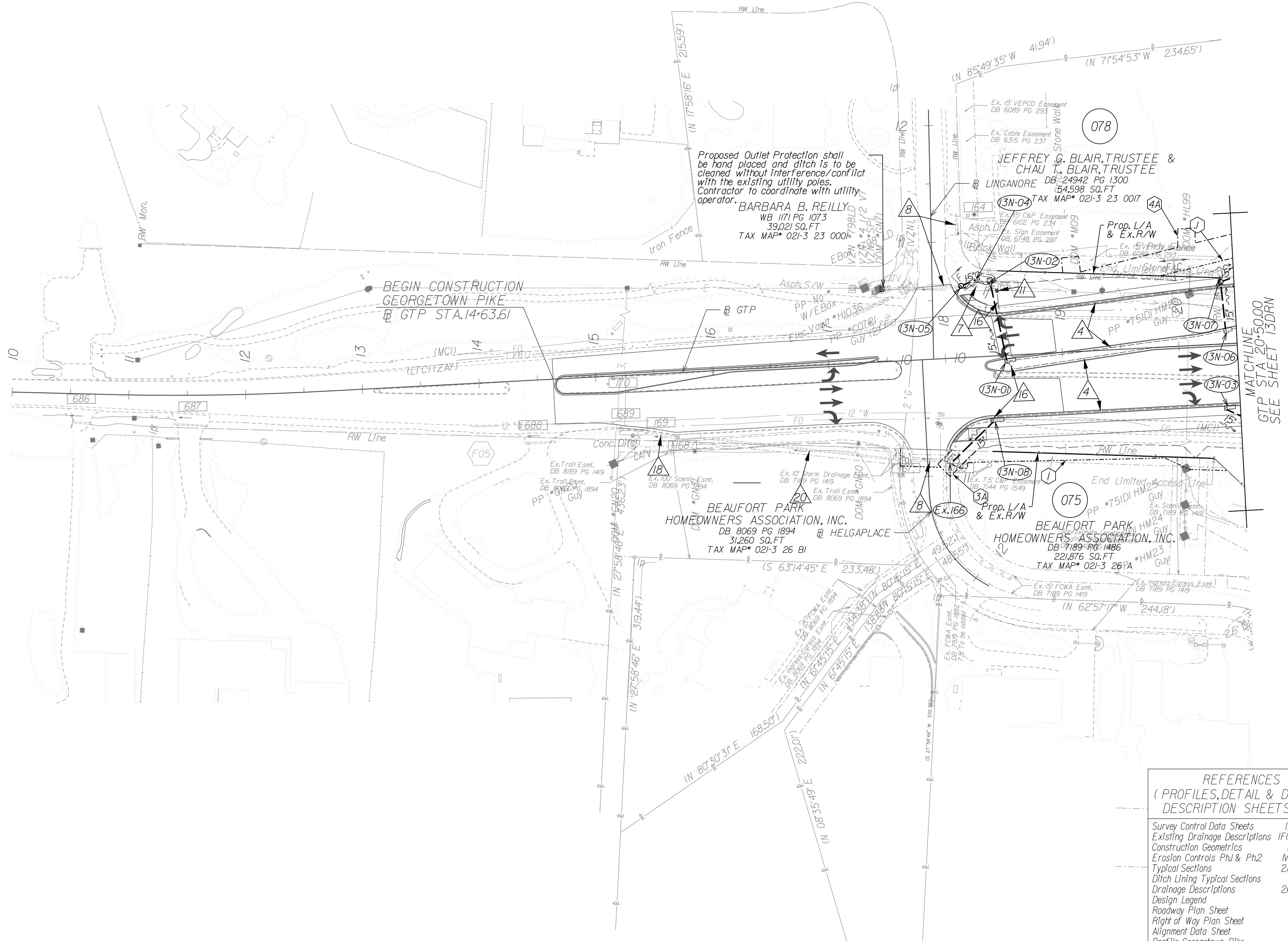
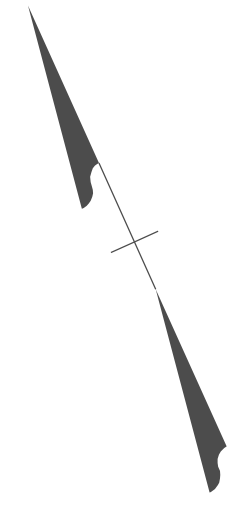
# Drainage Plan

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	13NDRN AREA 3

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

NOTE:  
 SEE SHEET 22 FOR RIGHT-OF-WAY AND DESIGN LEGENDS.

REFERENCES  
 (PROFILES, DETAIL & DRAINAGE DESCRIPTION SHEETS, ETC.)

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Erosion Controls Ph1 & Ph2	1V(13N), 1W(13N)
Typical Sections	2A thru 2B(8)
Ditch Lining Typical Sections	2J
Drainage Descriptions	2K thru 2K(6)
Design Legend	2Z
Roadway Plan Sheet	13
Right of Way Plan Sheet	13NRW
Alignment Data Sheet	13N(1)
Profile Georgetown Pike	13P

SCALE 0 50' 100'	VDOT PROJECT NO. 0495-029-419	SHEET NO. 13NDRN AREA 3
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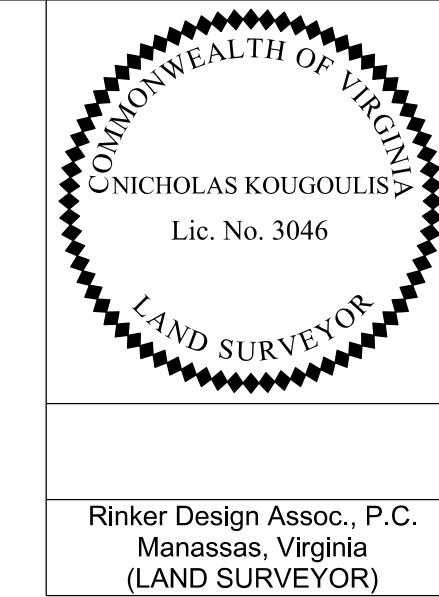
APPROVED FOR CONSTRUCTION



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  
Dewberry - Ron Jakomlitch, P.E. (703) 849-0651  
SUBSURFACE UTILITY BY, DATE\_Accumark - Michael Taylor, L.S. (703) 635-3060, 12/2021

Curve GTP01  
PI = 11+72.13  
DELTA = 4° 25' 25.52" (LT)  
D = 2' 28' 11"  
T = 89.61'  
L = 179.13'  
R = 2,320.00'  
PC = 10+82.52  
PT = 12+61.65  
DESIGN SPEED = 40 MPH  
e = EXISTING  
FOR INFORMATION ONLY

Curve HELGA001  
PI = 11+68.99  
DELTA = 59° 48' 27.34" (LT)  
D = 60' 38' 26"  
T = 54.34'  
L = 98.63'  
R = 94.48'  
PC = 11+14.65  
PT = 12+13.27  
FOR INFORMATION ONLY

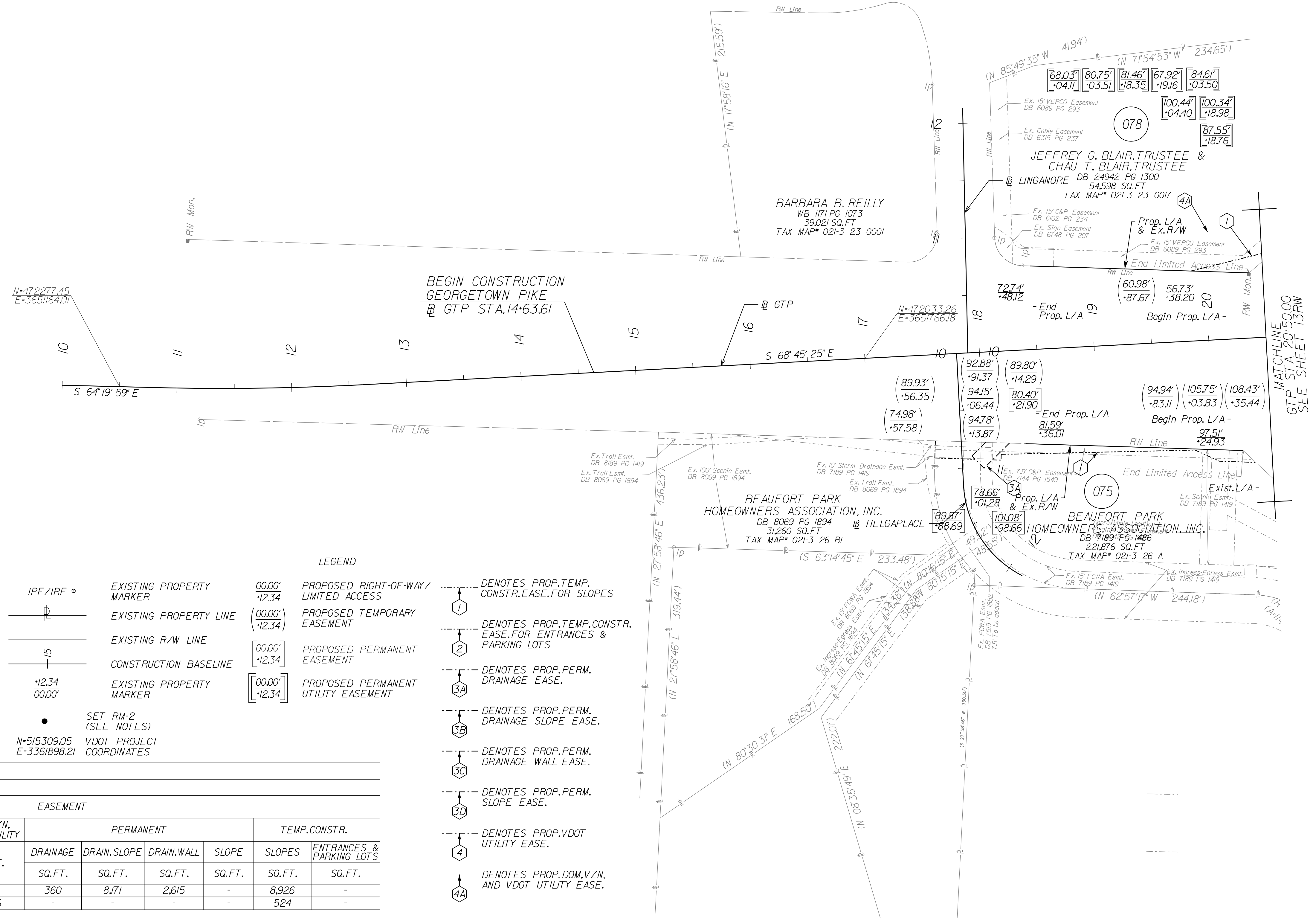
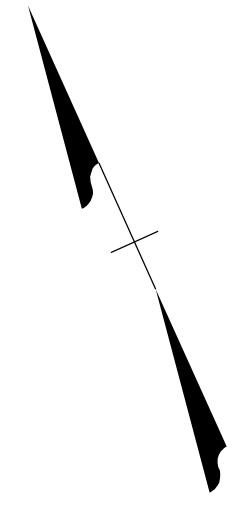


REVISED	STATE	ROUTE	STATE	VDOT PROJECT NO.	SHEET NO.
RW001	VA	495		0495-029-419 C501 RW201	13NRW AREA 3

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  
(LAND SURVEYOR)

(RW001) Revised parcel 075. See Sheet ID for details.



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.

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
12.34 00.00'	EXISTING PROPERTY MARKER	[00.00']	
•	SET RM-2 (SEE NOTES)		
N=515.309.05 E=3361898.21	VDOT PROJECT COORDINATES		

LEGEND

- DENOTES PROP. TEMP. CONSTR. EASE. FOR SLOPES
- DENOTES PROP. TEMP. CONSTR. EASE. FOR ENTRANCES & PARKING LOTS
- DENOTES PROP. PERM. DRAINAGE EASE.
- DENOTES PROP. PERM. DRAINAGE SLOPE EASE.
- DENOTES PROP. PERM. DRAINAGE WALL EASE.
- DENOTES PROP. PERM. SLOPE EASE.
- DENOTES PROP. PERM. SLOPE EASE.
- DENOTES PROP. VDOT UTILITY EASE.
- DENOTES PROP. DOM. VZN. AND VDOT UTILITY EASE.

PROJECT ASSIGNED PARCEL NO.	APPROXIMATE AREAS										
	TOTAL ACRES	PROP. R/W SQ.FT.	FEE REMAINDER ACRES	EASEMENT							
				DOM. ENERGY UTILITY SQ.FT.	DOM. VZN. 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.
075	5.094	32,650	4.344	1,382	-	360	8,171	2,615	-	8,926	-
078	1.253	-	1,253	-	3,066	-	-	-	-	524	-

SCALE 0 50' 100'	VDOT PROJECT NO. 0495-029-419	SHEET NO. 13NRW AREA 3
---------------------	----------------------------------	------------------------------

APP. FOR ROW

NOVA DISTRICT



PROJECT MANAGER VDOT - *Ritopal 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*  
*Dewberry - Ron Jakomlitch, P.E. (703) 849-0651*  
SUBSURFACE UTILITY BY, DATE *Accumark - Michael Taylor, L.S. (703) 635-3060, 12/2021*

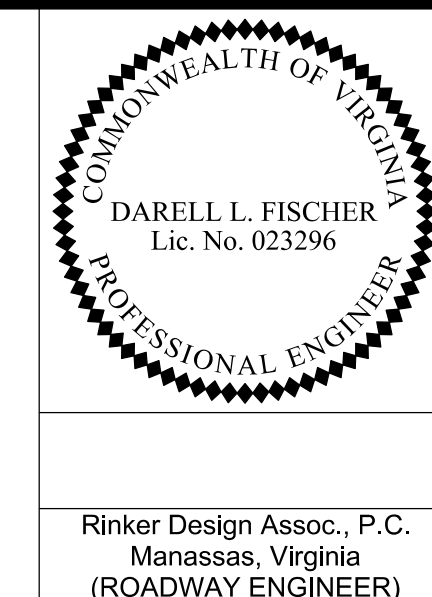
Curve GTP01  
PI = 11+72.13  
DELTA = 4° 25' 25.52" (LT)  
D = 2' 28' 11"  
T = 89.61'  
L = 179.13'  
R = 2,320.00'  
PC = 10+82.52  
PT = 12+61.65  
DESIGN SPEED = 40 MPH  
e = EXISTING  
FOR INFORMATION  
ONLY

Curve HELGA001  
PI = 11+68.99  
DELTA = 59° 48' 27.34" (LT)  
D = 60' 38' 26"  
T = 54.34'  
L = 98.63'  
R = 94.48'  
PC = 11+14.65  
PT = 12+13.27  
FOR INFORMATION  
ONLY

# Alignment Data

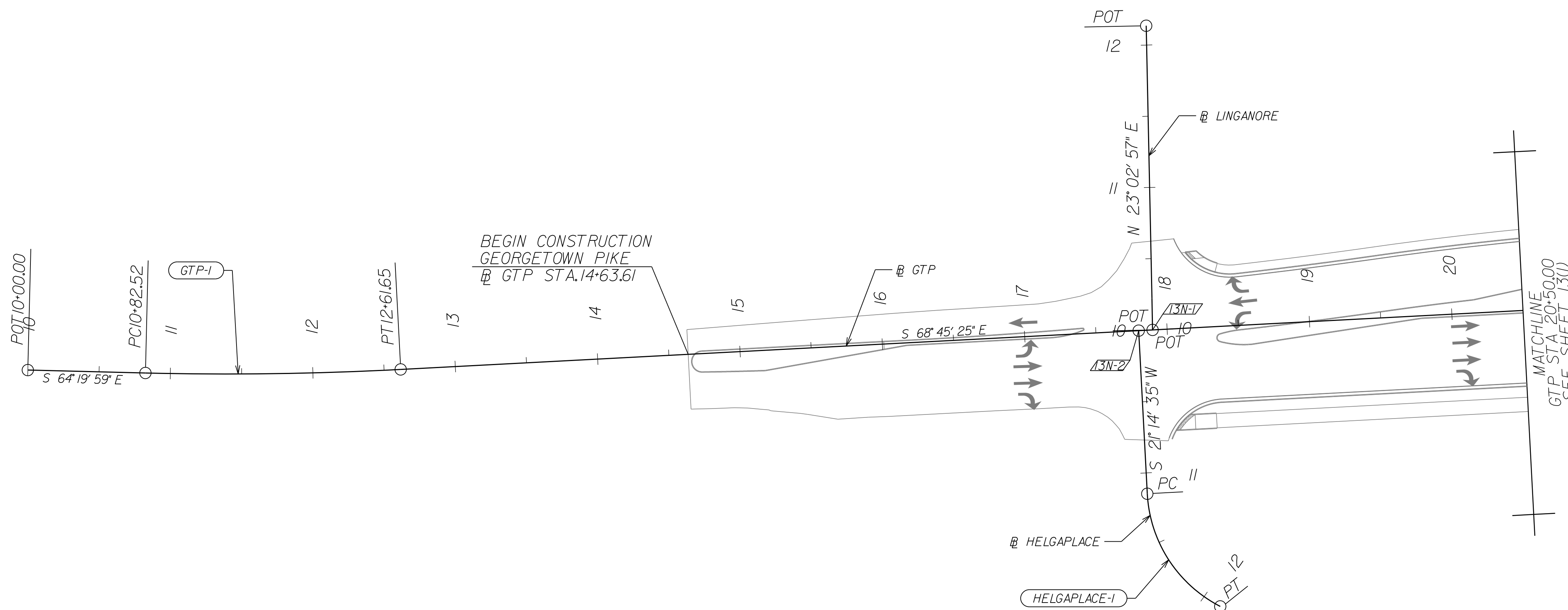
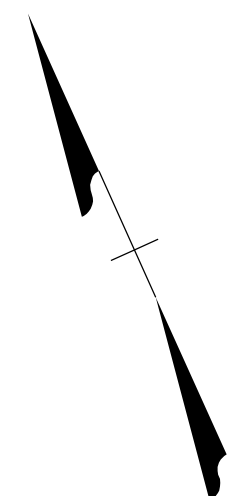
**13N-17** P.I. = 17+89.81 Georgetown Pike C.B.L.  
P.J. = 10+00.00 Linganore Dr. C.B.L.  
Δ = 88°11'38" Rt.

**13N-20** P.O.I. = 17+80.06 Georgetown Pike C.B.L.  
P.O.J. = 10+00.00 Helga Place C.B.L.  
Δ = 90°00'00" Rt.



REVISED	STATE	ROUTE	STATE	VDOT PROJECT NO.	SHEET NO.
	VA.	495		0495-029-419 C501 RW201	13N(1) AREA 3

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

10/6/2022

### 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(3)
Erosion Controls Ph1 & Ph2	1V(13N), 1W(13N)
Typical Sections	2A thru 2B(8)
Ditch Lining Typical Sections	2J
Drainage Descriptions	2K thru 2K(6)
Design Legend	2Z
Roadway Plan Sheet	13N
Drainage Plan Sheet	13NDRN
Right of Way Plan Sheet	13NRW
Profile Georgetown Pike	13P

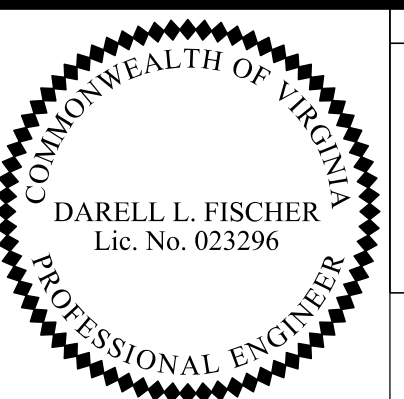
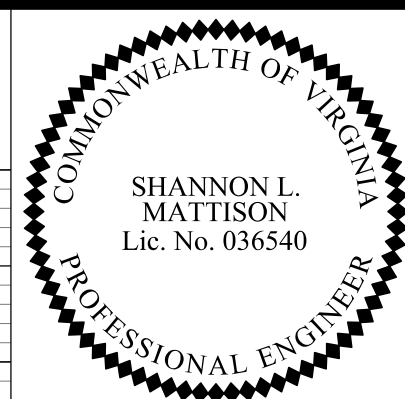
SCALE 0 50' 100'	VDOT PROJECT NO. 0495-029-419	SHEET NO. 13N(1) AREA 3
---------------------	----------------------------------	-------------------------------

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\_DATE - DARELL FISCHER PE (703) 334-0823  
SUBSURFACE UTILITY BY\_DATE - Accumar - Michael Taylor LS (703) 635-3060 12/2021

# Georgetown Pike



REVISED	STATE	ROUTE	STATE PROJECT	SHEET NO
	VA.	495	0495-029-419 C501 RW201	13P AREA 3

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)

335

330

325

320

315

310

305

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295

290

285

280

275

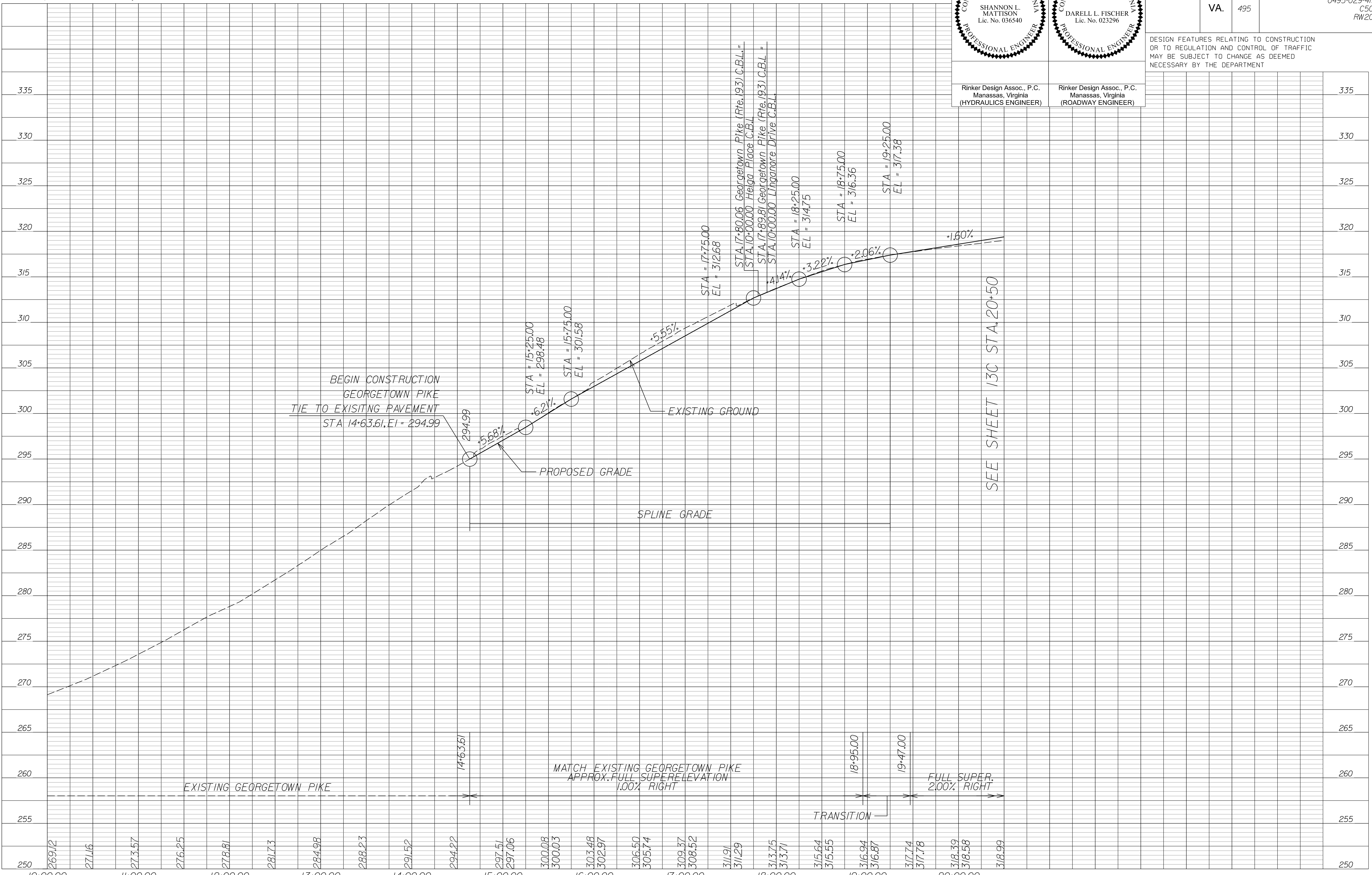
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265

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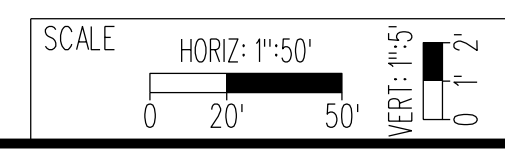
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250



NOVA DISTRICT

10/16/2022



VDOT PROJECT NO. 0495-029-419

SHEET NO. 13P AREA 3

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

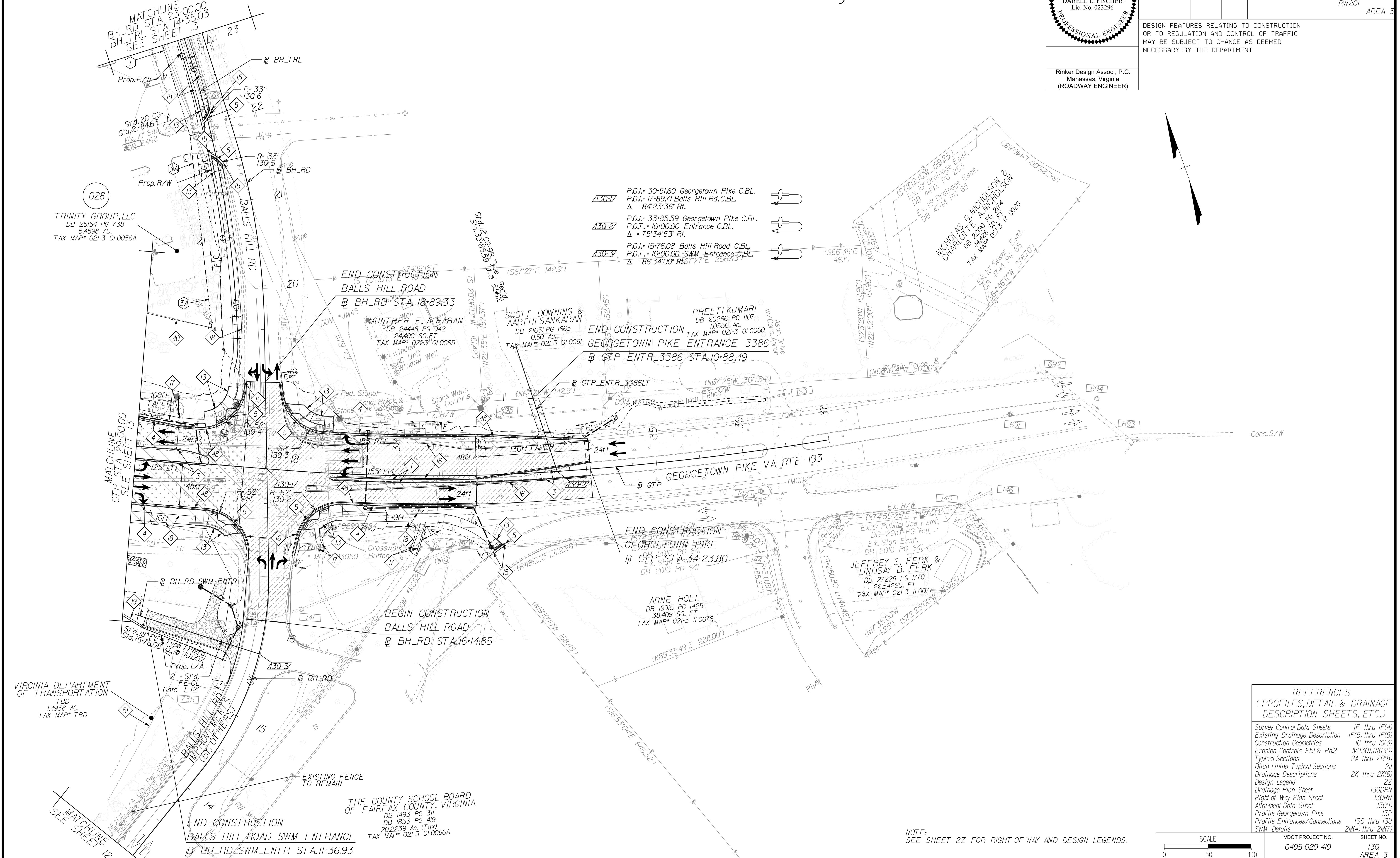
# Roadway Plan

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	130 AREA 3

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





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

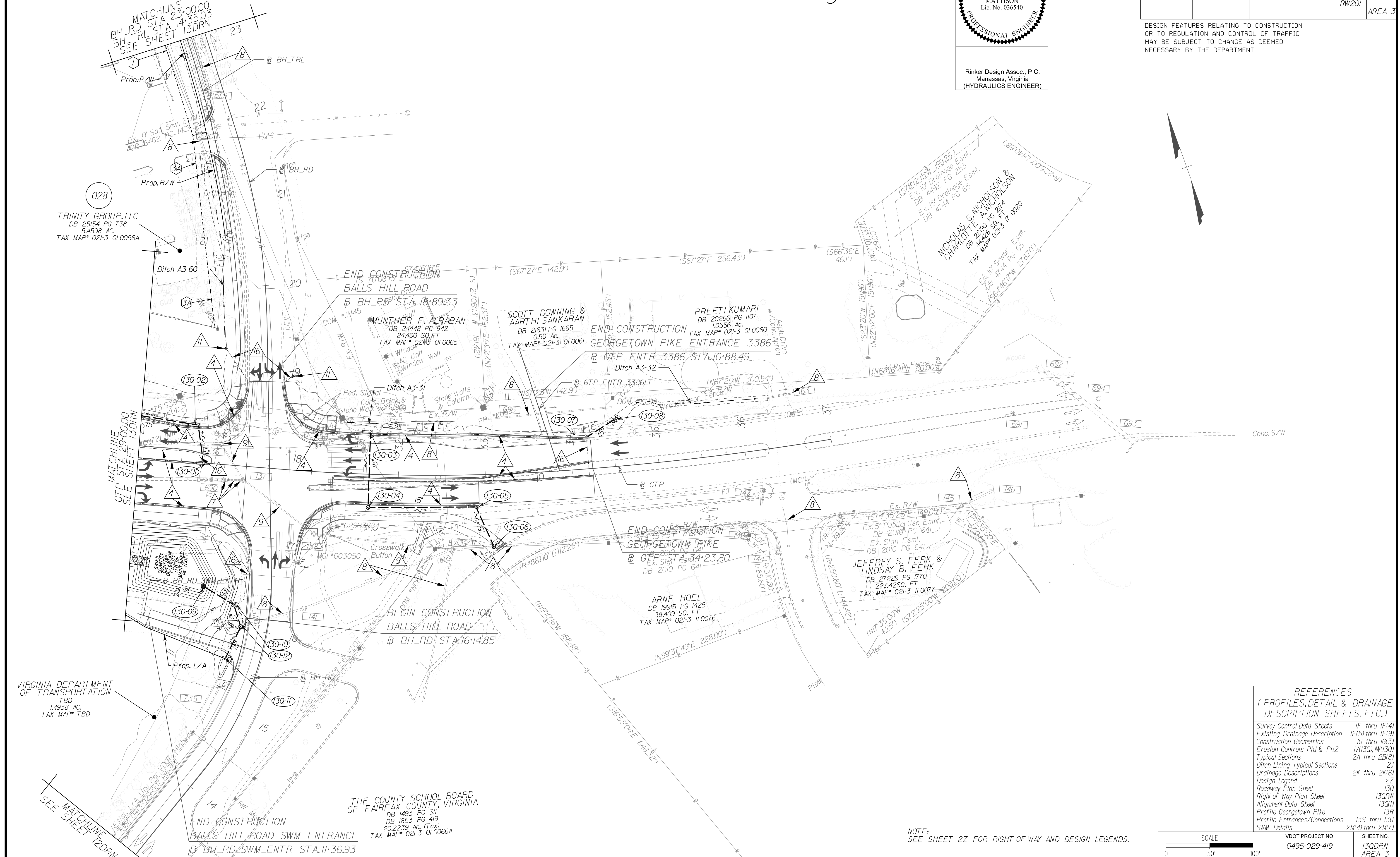
# Drainage Plan

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	13QDRN AREA 3

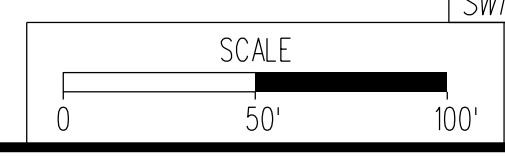
DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT



REFERENCES  
 (PROFILES, DETAIL & DRAINAGE DESCRIPTION SHEETS, ETC.)

Survey Control Data Sheets	1F thru 1F(4)
Existing Drainage Description	1F(5) thru 1F(9)
Construction Geometrics	1G thru 1G(3)
Erosion Controls Ph1 & Ph2	1H(130), 1H(130)
Typical Sections	2A thru 2B(8)
Ditch Lining Typical Sections	2J
Drainage Descriptions	2K thru 2K(6)
Design Legend	2Z
Roadway Plan Sheet	13Q
Right of Way Plan Sheet	13QRW
Alignment Data Sheet	13Q(1)
Profile Data Sheet	13R
Profile Entrances/Connections	13S thru 13U
SWM Details	2M(4) thru 2M(7)

NOTE:  
 SEE SHEET 2Z FOR RIGHT-OF-WAY AND DESIGN LEGENDS.



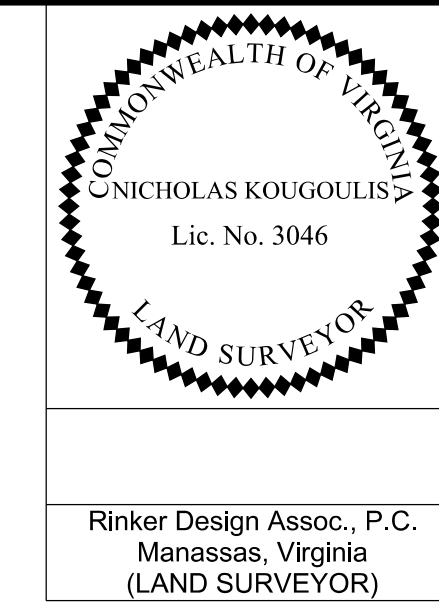
VDOT PROJECT NO.	SHEET NO.
0495-029-419	13QDRN AREA 3

APPROVED FOR CONSTRUCTION

NOVA DISTRICT



PROJECT MANAGER\_VDOT - Bitrapal,Shob.PE,(703) 259-2362  
 SURVEYED BY, DATE\_BDA - Nicholas.Kougoulis.LS,(703) 334-0837,1/2019  
 DESIGN BY\_BDA - Darrell.Elscher.PE,(703) 334-0823  
 SUBSURFACE UTILITY BY, DATE\_Accumark - Mchael.Taylor.LS,(703) 635-3060,12/2021

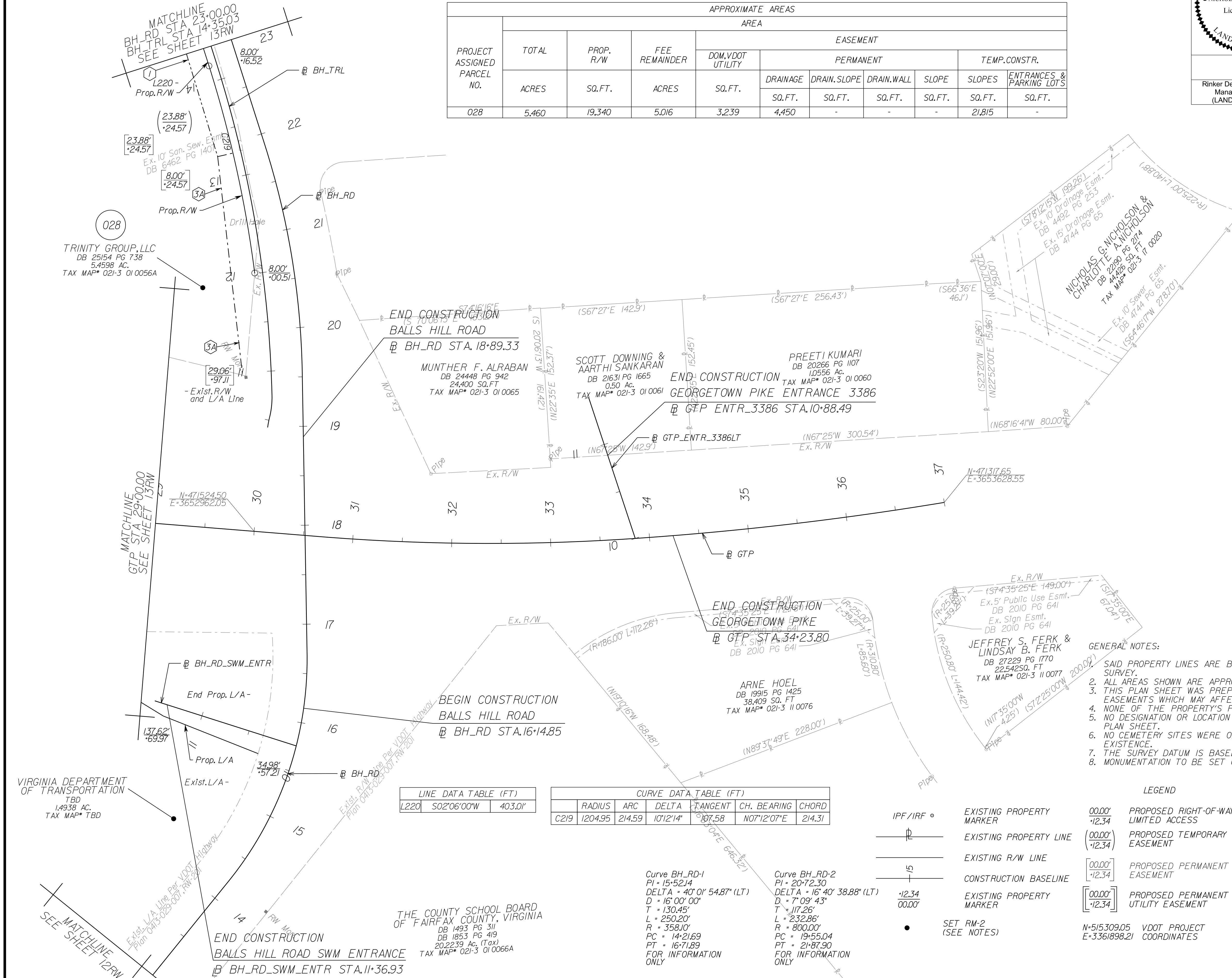


REVISED	STATE	ROUTE	STATE	VDOT PROJECT NO.	SHEET NO.
RW001 RW002	VA.	495		0495-029-419 C501 RW201	130RW AREA 3

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

(RW001) Adjusted existing easement labels per VDOT request.  
 (RW002) Revised parcels 028 and 079. See Sheet ID for details.

PROJECT ASSIGNED PARCEL NO.	APPROXIMATE AREAS								
	TOTAL ACRES	PROP. R/W SQ. FT.	FEE REMAINDER ACRES	AREA			ENTRANCES & PARKING LOTS SQ. FT.		
				DOM. VDOT UTILITY SQ. FT.	EASEMENT PERMANENT			TEMP. CONSTR.	
028	5.460	19,340	5.016	3,239	4,450	-	-	21,815	-



L220	S02°06'00"W	403.01'
------	-------------	---------

RADIUS	ARC	DELTA	TANGENT	CH. BEARING	CHORD
C219	1204.95	214.59	101°12'14"	107.58	N07°12'07"E 214.31

Curve BH\_RD-1  
 PI = 15-52.14  
 DELTA = 40° 01' 54.87" (LT)  
 D = 16° 00' 00"  
 T = 130.45'  
 L = 250.20'  
 R = 358.10'  
 PC = 14-21.69  
 PT = 16-71.89  
 FOR INFORMATION ONLY

Curve BH\_RD-2  
 PI = 20-72.30  
 DELTA = 16° 40' 38.88" (LT)  
 D = 7° 09' 43"  
 T = 117.26'  
 L = 232.86'  
 R = 800.00'  
 PC = 19-55.04  
 PT = 21-87.90  
 FOR INFORMATION ONLY

THE COUNTY SCHOOL BOARD OF FAIRFAX COUNTY, VIRGINIA  
 DB 1493 PG 311  
 DB 1853 PG 419  
 20,223.9 AC. (TAX)  
 TAX MAP\* 021-3 01 0066A

- GENERAL NOTES:
- SAID PROPERTY LINES ARE BEST FIT BASED ON COMPILED DATA AND DO NOT REPRESENT A BOUNDARY SURVEY.
  - ALL AREAS SHOWN ARE APPROXIMATE ONLY.
  - THIS PLAN SHEET WAS PREPARED WITHOUT THE BENEFIT OF A TITLE REPORT AND MAY NOT SHOW ALL EASEMENTS WHICH MAY AFFECT THE PROPERTY HEREON.
  - NONE OF THE PROPERTY'S PHYSICAL IMPROVEMENTS ARE SHOWN HEREON.
  - NO DESIGNATION OR LOCATION OF SUBSURFACE UTILITIES WAS PERFORMED DURING PREPARATION OF THIS PLAN SHEET.
  - NO CEMETERY SITES WERE OBSERVED ON THE SUBJECT PROPERTY. THIS DOES NOT PRECLUDE THEIR EXISTENCE.
  - THE SURVEY DATUM IS BASED ON THE TITLED VDOT PROJECT.
  - MONUMENTATION TO BE SET UPON COMPLETION OF CONSTRUCTION.

LEGEND

- 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
- 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. EASE. FOR SLOPES
- 3B DENOTES PROP. TEMP. CONSTR. EASE. FOR SLOPES
- 3C DENOTES PROP. TEMP. CONSTR. EASE. FOR SLOPES
- 3D DENOTES PROP. TEMP. CONSTR. EASE. FOR SLOPES
- 3E DENOTES PROP. TEMP. CONSTR. EASE. FOR SLOPES
- 3F DENOTES PROP. TEMP. CONSTR. EASE. FOR SLOPES
- 3G DENOTES PROP. TEMP. CONSTR. EASE. FOR SLOPES
- 3H DENOTES PROP. TEMP. CONSTR. EASE. FOR SLOPES
- 3I DENOTES PROP. TEMP. CONSTR. EASE. FOR SLOPES
- 3J DENOTES PROP. TEMP. CONSTR. EASE. FOR SLOPES
- 3K DENOTES PROP. TEMP. CONSTR. EASE. FOR SLOPES
- 3L DENOTES PROP. TEMP. CONSTR. EASE. FOR SLOPES
- 3M DENOTES PROP. TEMP. CONSTR. EASE. FOR SLOPES
- 3N DENOTES PROP. TEMP. CONSTR. EASE. FOR SLOPES
- 3O DENOTES PROP. TEMP. CONSTR. EASE. FOR SLOPES
- 3P DENOTES PROP. TEMP. CONSTR. EASE. FOR SLOPES
- 3Q DENOTES PROP. TEMP. CONSTR. EASE. FOR SLOPES
- 3R DENOTES PROP. TEMP. CONSTR. EASE. FOR SLOPES
- 3S DENOTES PROP. TEMP. CONSTR. EASE. FOR SLOPES
- 3T DENOTES PROP. TEMP. CONSTR. EASE. FOR SLOPES
- 3U DENOTES PROP. TEMP. CONSTR. EASE. FOR SLOPES
- 3V DENOTES PROP. TEMP. CONSTR. EASE. FOR SLOPES
- 3W DENOTES PROP. TEMP. CONSTR. EASE. FOR SLOPES
- 3X DENOTES PROP. TEMP. CONSTR. EASE. FOR SLOPES
- 3Y DENOTES PROP. TEMP. CONSTR. EASE. FOR SLOPES
- 3Z DENOTES PROP. TEMP. CONSTR. EASE. FOR SLOPES

SCALE 0 50' 100'	VDOT PROJECT NO. 0495-029-419	SHEET NO. 130RW AREA 3
---------------------	----------------------------------	------------------------------

APP. FOR ROW



PROJECT MANAGER VDOT - Rupal Shah, PE, (703) 259-2362  
SURVEYED BY, DATE RDA - Nicholas Kougoullis, LS, (703) 334-0837, 12/2/2021  
DESIGN BY RDA - Dorell Fischer, PE, (703) 334-0823  
Newberry - Ron Jakomilich, PE, (703) 849-0651  
SUBSURFACE UTILITY BY, DATE Accumark - Michael Taylor, LS, (703) 635-3060, 12/2/2021

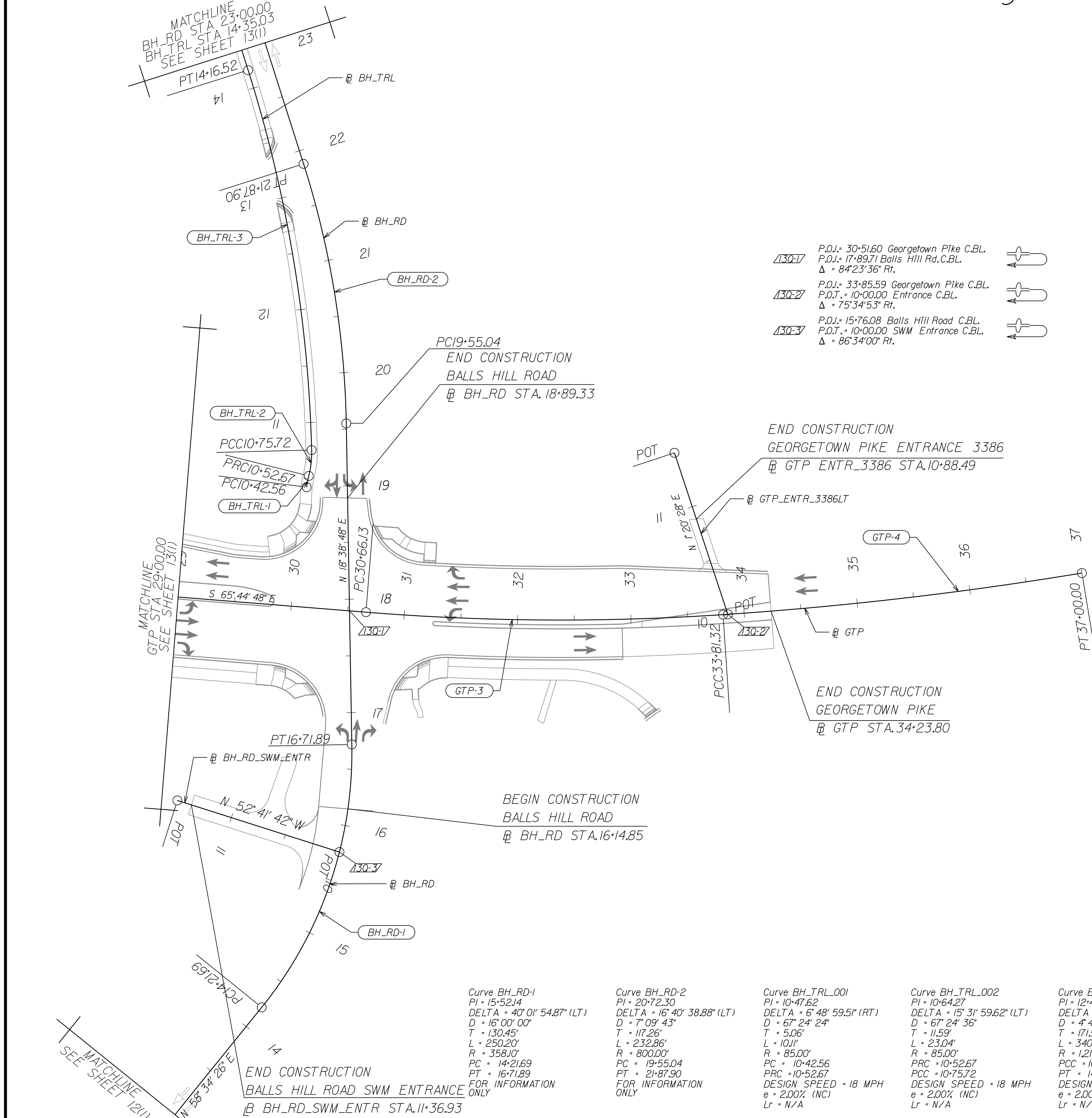
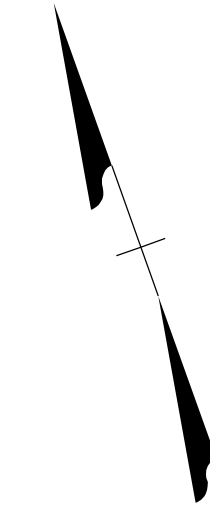
# Alignment Data

COMMONWEALTH OF VIRGINIA  
DARELL L. FISCHER  
Lic. No. 023296  
PROFESSIONAL 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	130(1) AREA 3

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



- $\Delta 130-17$  P.O.I. = 30+51.60 Georgetown Pike C.B.L.  
P.O.I. = 17+89.71 Balls Hill Rd. C.B.L.  
 $\Delta$  = 84°23'36" Rt.
- $\Delta 130-27$  P.O.I. = 33+85.59 Georgetown Pike C.B.L.  
P.O.T. = 10+00.00 Entrance C.B.L.  
 $\Delta$  = 75°34'53" Rt.
- $\Delta 130-37$  P.O.I. = 15+76.08 Balls Hill Road C.B.L.  
P.O.T. = 10+00.00 SWM Entrance C.B.L.  
 $\Delta$  = 86°34'00" Rt.

- Curve GTP03  
PI = 32+24.01  
DELTA = 8°26' 48.50" (LT)  
D = 2' 40' 48"  
T = 157.88'  
L = 315.19'  
R = 2138.00'  
PC = 30+66.13  
PCC = 33+81.32  
PT = 37+00.00  
DESIGN SPEED = 40 MPH  
e = (MATCH EXISTING)  
Lr = N/A
- Curve GTP04  
PI = 35+40.79  
DELTA = 5°33' 09.56" (LT)  
D = 1' 44' 33"  
T = 159.46'  
L = 318.68'  
R = 3,288.31'  
PCC = 33+81.32  
PT = 37+00.00  
DESIGN SPEED = 40 MPH  
e = (MATCH EXISTING)  
Lr = N/A

- Curve BH\_RD-1  
PI = 15+52.14  
DELTA = 40° 0' 54.87" (LT)  
D = 16' 00' 00"  
T = 130.45'  
L = 250.20'  
R = 358.10'  
PC = 14+21.69  
PT = 16+71.89  
FOR INFORMATION ONLY
- Curve BH\_RD-2  
PI = 20+72.30  
DELTA = 16° 40' 38.88" (LT)  
D = 7' 09' 43"  
T = 117.26'  
L = 232.86'  
R = 800.00'  
PC = 19+55.04  
PT = 21+87.90  
FOR INFORMATION ONLY
- Curve BH\_TRL-001  
PI = 10+47.62  
DELTA = 6° 48' 59.51" (RT)  
D = 67' 24' 24"  
T = 117.26'  
L = 101.1'  
R = 85.00'  
PC = 10+42.56  
PT = 10+52.67  
DESIGN SPEED = 18 MPH  
e = 2.00% (NC)  
Lr = N/A
- Curve BH\_TRL-002  
PI = 10+64.27  
DELTA = 15° 31' 59.62" (LT)  
D = 67' 24' 36"  
T = 5.06'  
L = 23.04'  
R = 85.00'  
PC = 10+52.67  
PT = 10+52.67  
DESIGN SPEED = 18 MPH  
e = 2.00% (NC)  
Lr = N/A
- Curve BH\_TRL-003  
PI = 12+47.25  
DELTA = 16° 05' 54.72" (LT)  
D = 4' 43' 25"  
T = 11.53'  
L = 340.81'  
R = 1,212.95'  
PCC = 10+75.72  
PT = 14+16.52  
DESIGN SPEED = 18 MPH  
e = 2.00% (NC)  
Lr = N/A

### REFERENCES (PROFILES, DETAIL & DRAINAGE DESCRIPTION SHEETS, ETC.)

Survey Control Data Sheets	1F thru 1F(4)
Existing Drainage Description	1F(5) thru 1F(9)
Construction Geometrics	1G thru 1G(3)
Erosion Controls Ph1 & Ph2	1H(130), 1H(130)
Typical Sections	2A thru 2B(8)
Ditch Lining Typical Sections	2J
Drainage Descriptions	2K thru 2K(6)
Design Legend	27
Roadway Plan Sheet	130
Drainage Plan Sheet	130DRW
Right of Way Plan Sheet	130RW
Profile Georgetown Pike	13P
Profile Entrances/Connections	13S thru 13U
SWM Details	2M(4) thru 2M(7)

SCALE	VDOT PROJECT NO.	SHEET NO.
0 50' 100'	0495-029-419	130(1) AREA 3

APPROVED FOR CONSTRUCTION

NOVA DISTRICT







LIMITED ACCESS HIGHWAY

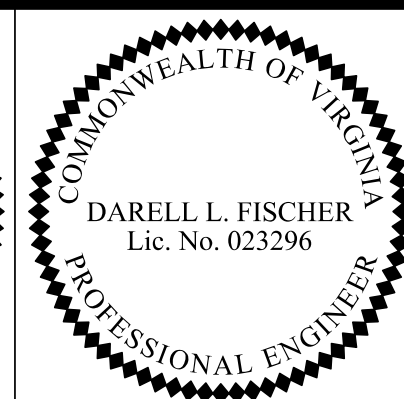
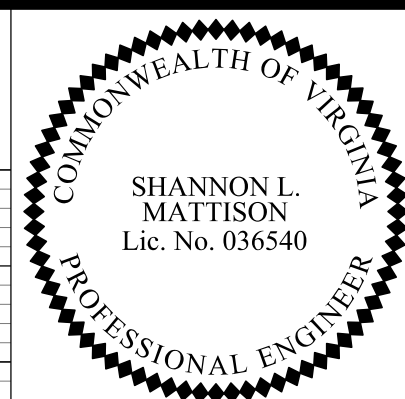
By Resolution of State Highway Commission dated October 4, 1956

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 - Nicolas Kougoullis LS, (703) 334-0837, 12/2/2021  
DESIGN BY\_BDA - Darell Elischer PE, (703) 334-0823  
SUBSURFACE UTILITY BY, DATE\_Accumar - Michele Taylor LS, (703) 635-3060, 12/2/2021

# Balls Hill Road

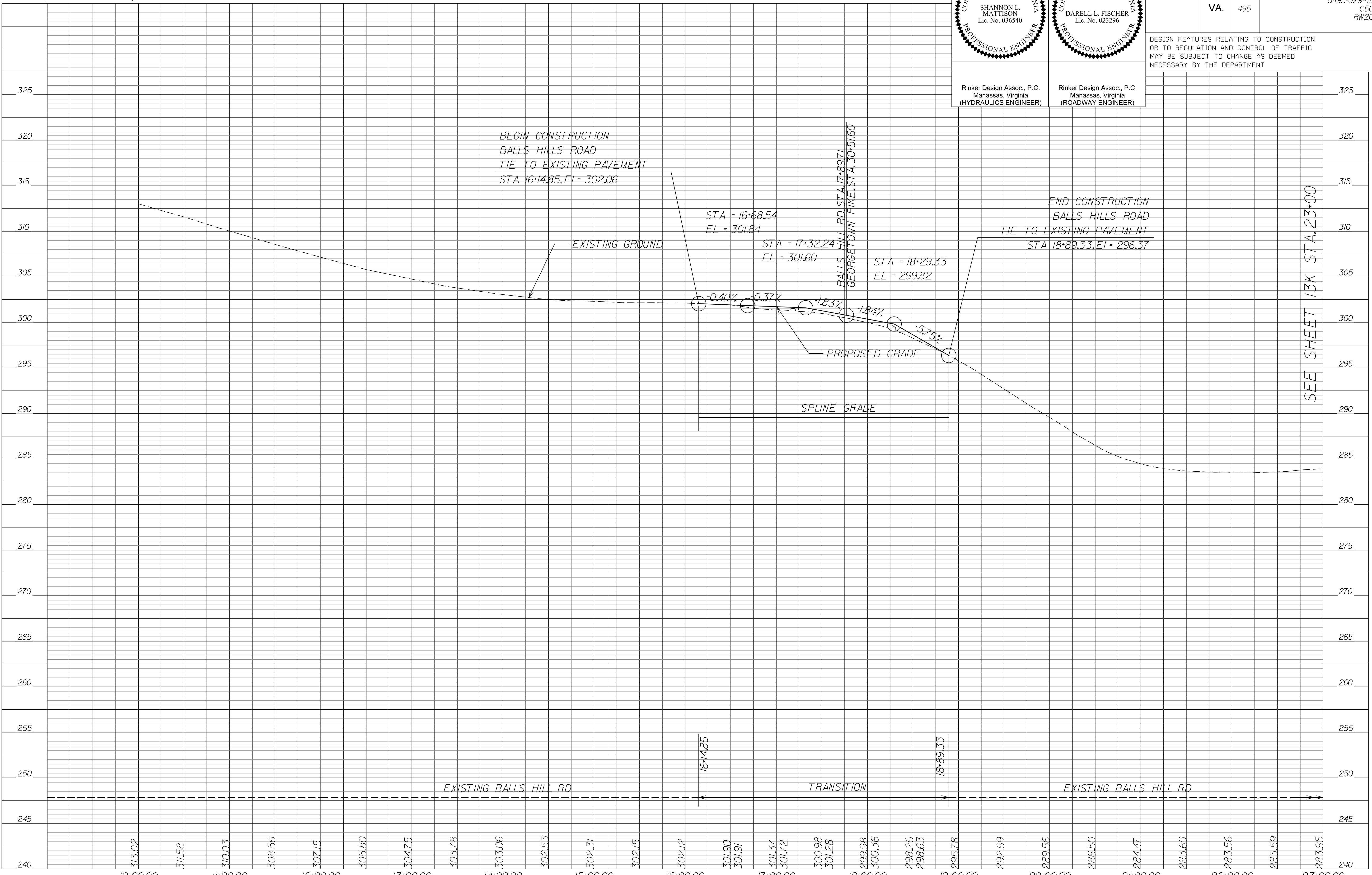


Rinker Design Assoc., P.C.  
Manassas, Virginia  
(HYDRAULICS ENGINEER)

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

REVISED	STATE	ROUTE	STATE PROJECT	SHEET NO
	VA.	495	0495-029-419 C501 RW201	13S AREA 3

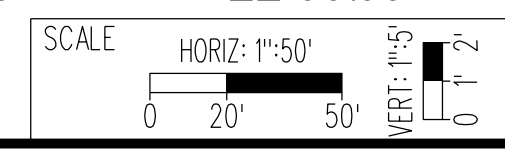
DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT



NOVA DISTRICT

10/16/2022

SEE SHEET 13K STA. 23+00



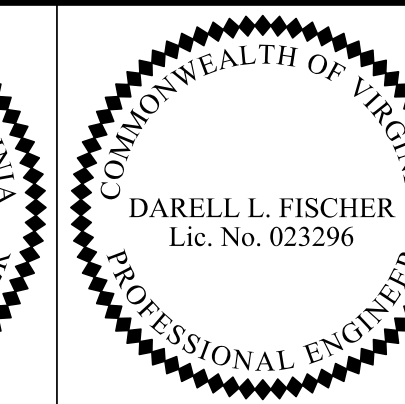
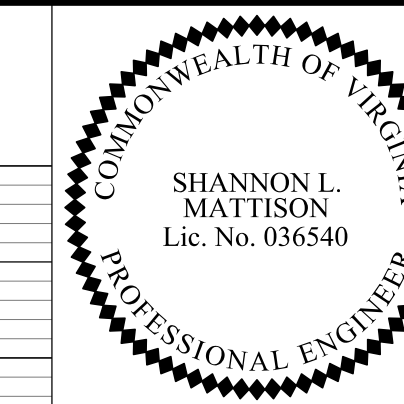
VDOT PROJECT NO. 0495-029-419  
SHEET NO. 13S  
AREA 3

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 - Darel L Fischer PE, (703) 334-0823  
SUBSURFACE UTILITY BY\_DATE Accumark - Michael Taylor LS, (703) 635-3060, 12/2021

# Balls Hill Shared Use Path

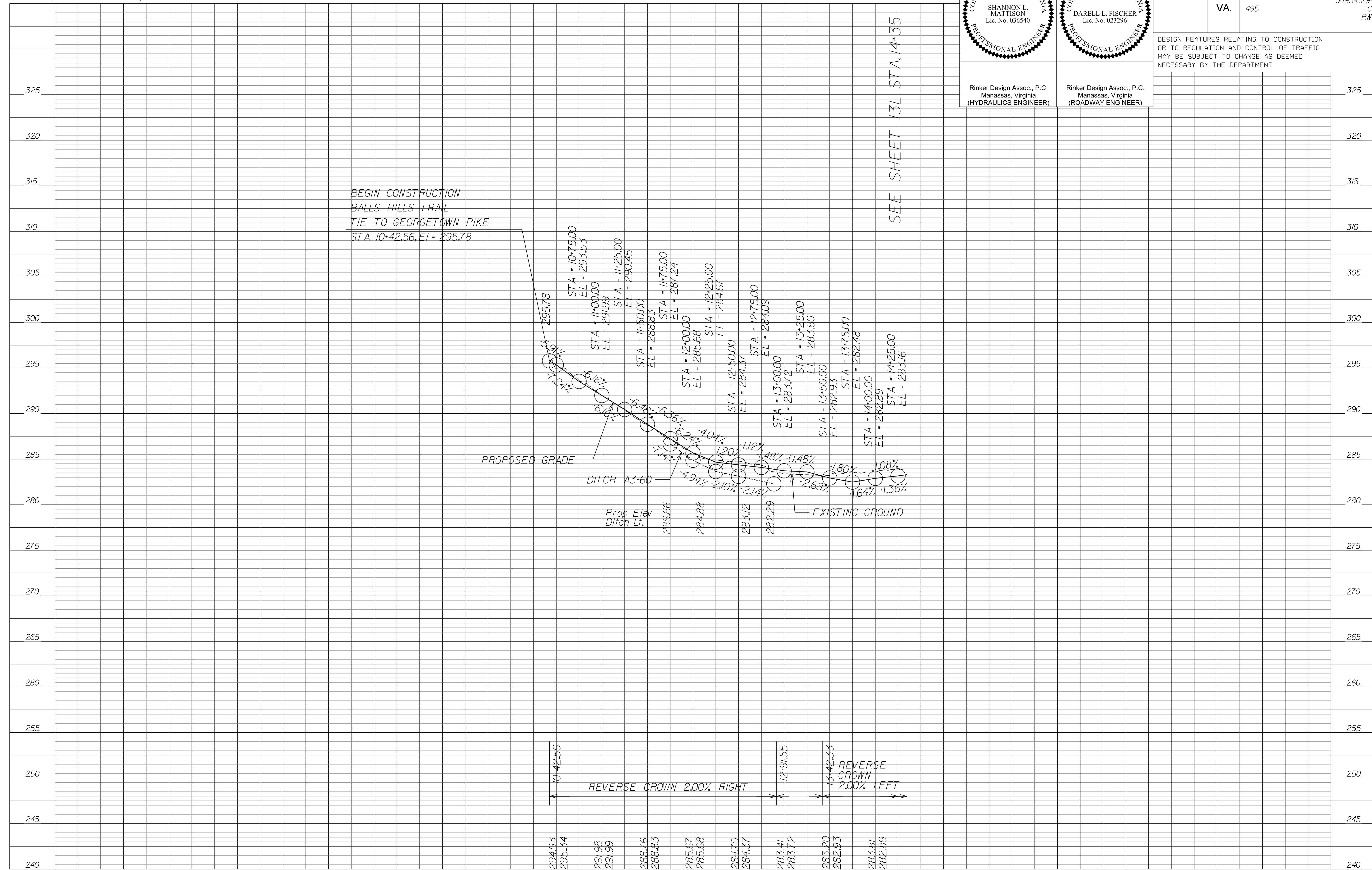


Rinker Design Assoc., P.C.  
Manassas, Virginia  
(HYDRAULICS ENGINEER)

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

REVISED	STATE	ROUTE	STATE PROJECT	SHEET NO
	VA.	495	0495-029-419 C501 RW201	13T AREA 3

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 13L STA. 14+35

NOVA DISTRICT

10/16/2022

SCALE: HORIZ: 1"=50' VERT: 1"=5'

VDOT PROJECT NO. 0495-029-419

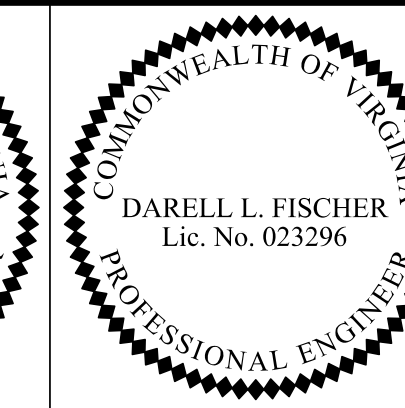
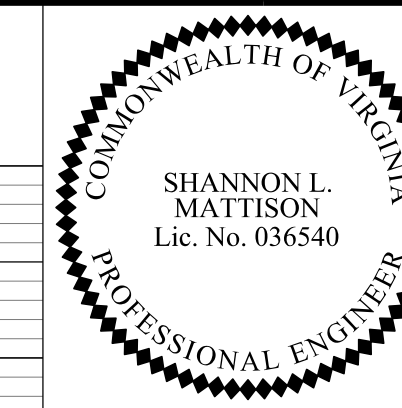
SHEET NO. 13T AREA 3

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

# ENTRANCE PROFILES

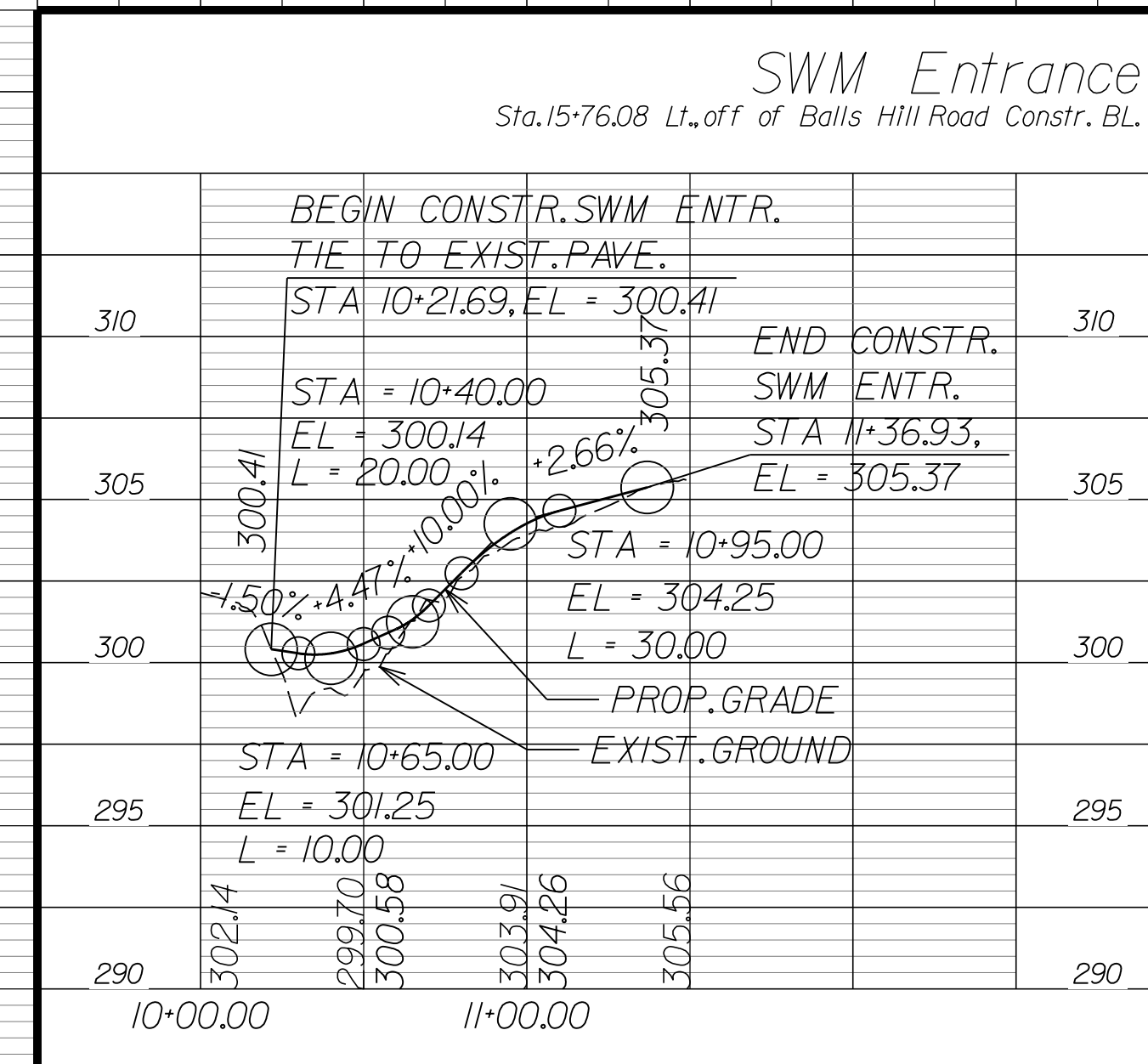
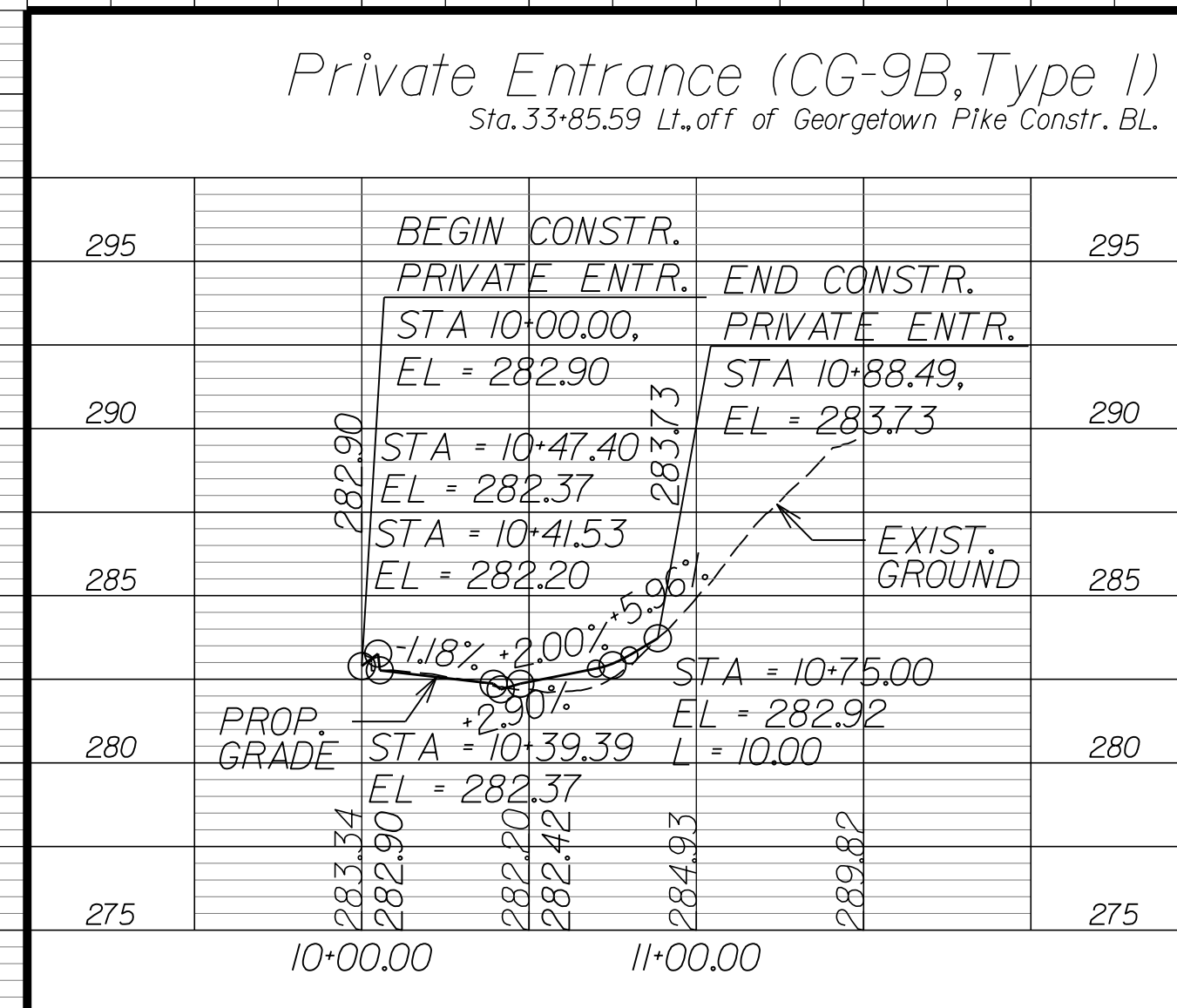


Rinker Design Assoc., P.C.  
Manassas, Virginia  
(HYDRAULICS ENGINEER)

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

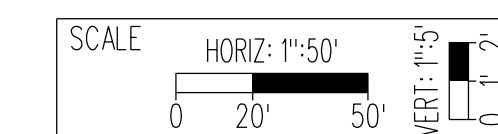
REVISED	STATE	ROUTE	STATE PROJECT	SHEET NO.
	VA.	495	0495-029-419 C501 RW201	13U AREA 3

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

10/6/2022



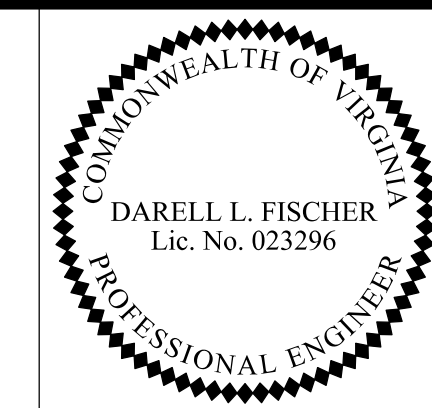
VDOT PROJECT NO. 0495-029-419  
SHEET NO. 13U AREA 3

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

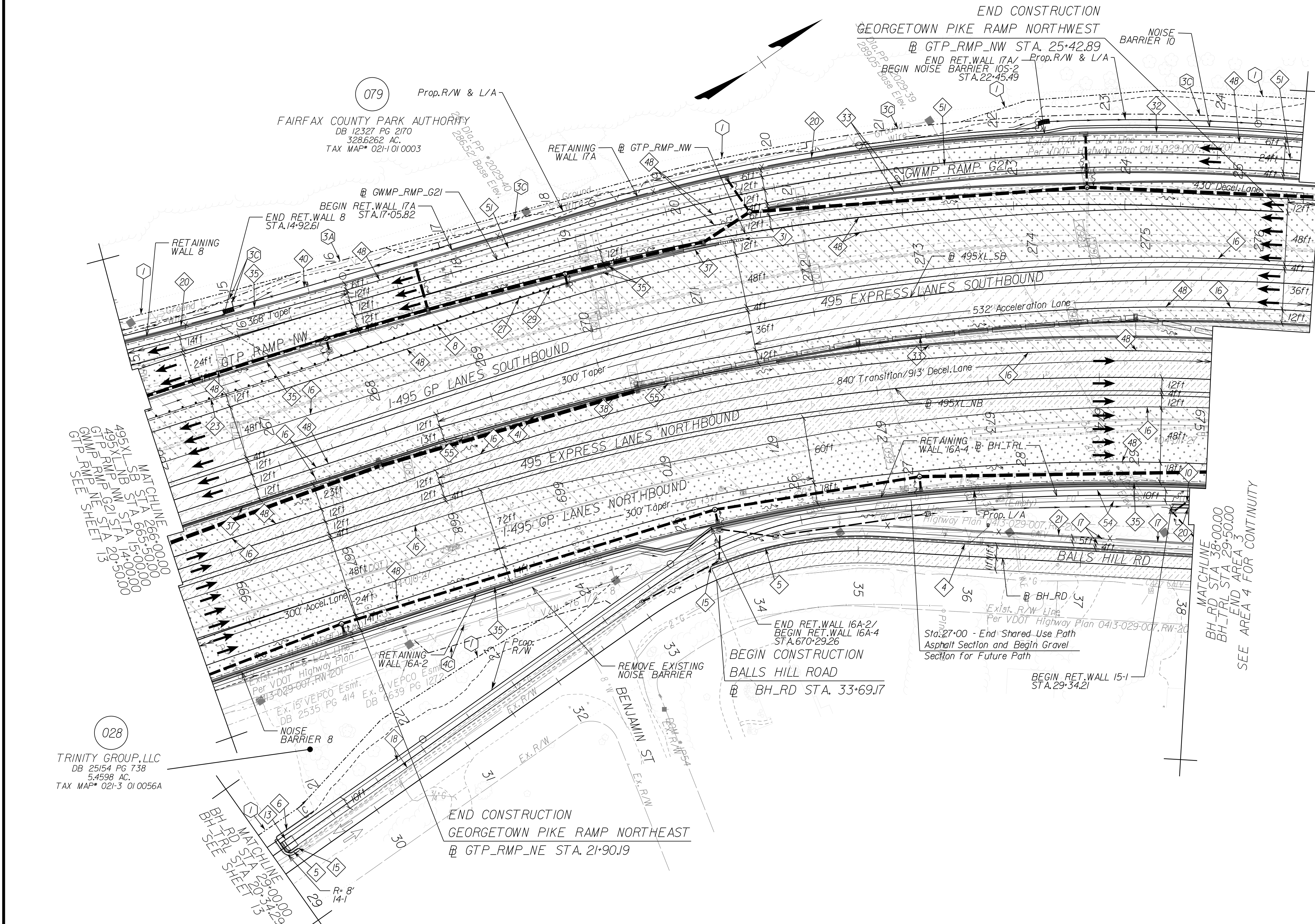
# Roadway Plan



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

REVISED	STATE	ROUTE	STATE	VDOT PROJECT NO.	SHEET NO.
	VA	495		0495-029-419 PE101 C501 RW201	14 AREA 3

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 26+50.00  
 495XL NB STA 6+50.00  
 GTP\_RMP\_NW STA 24+50.00  
 GTP\_RMP\_NE STA 21+90.19  
 SEE AREA 4 FOR CONTINUITY

MATCHLINE  
 BH\_RD STA 38+00.00  
 BH\_TFL STA 29+50.00  
 SEE AREA 4 FOR CONTINUITY

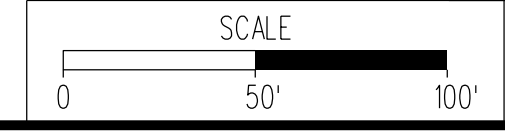
NOVA DISTRICT

028  
 TRINITY GROUP, LLC  
 DB 25154 PG 738  
 5,4598 AC.  
 TAX MAP# 021-3 01 00564

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(3)
Erosion Controls Ph1 & Ph2	1W(14), 1W(14)
Typical Sections	2A thru 2B(8)
Ditch Lining Typical Sections	2J
Drainage Descriptions	2K thru 2K(6)
Design Legend	2Z
Drainage Plan Sheet	14DRN
Right of Way Plan Sheet	14RW
Alignment Data Sheet	14(1)
Profile 1-495 NB	14A
Profile 1-495 SB	14B
Profile Connections	14C thru 14G

NOTE:  
 SEE SHEET 22 FOR RIGHT-OF-WAY AND DESIGN LEGENDS.



VDOT PROJECT NO.	SHEET NO.
0495-029-419	14 AREA 3

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 Accurmark - Michael Taylor, LS, (703) 635-3060, 12/2021

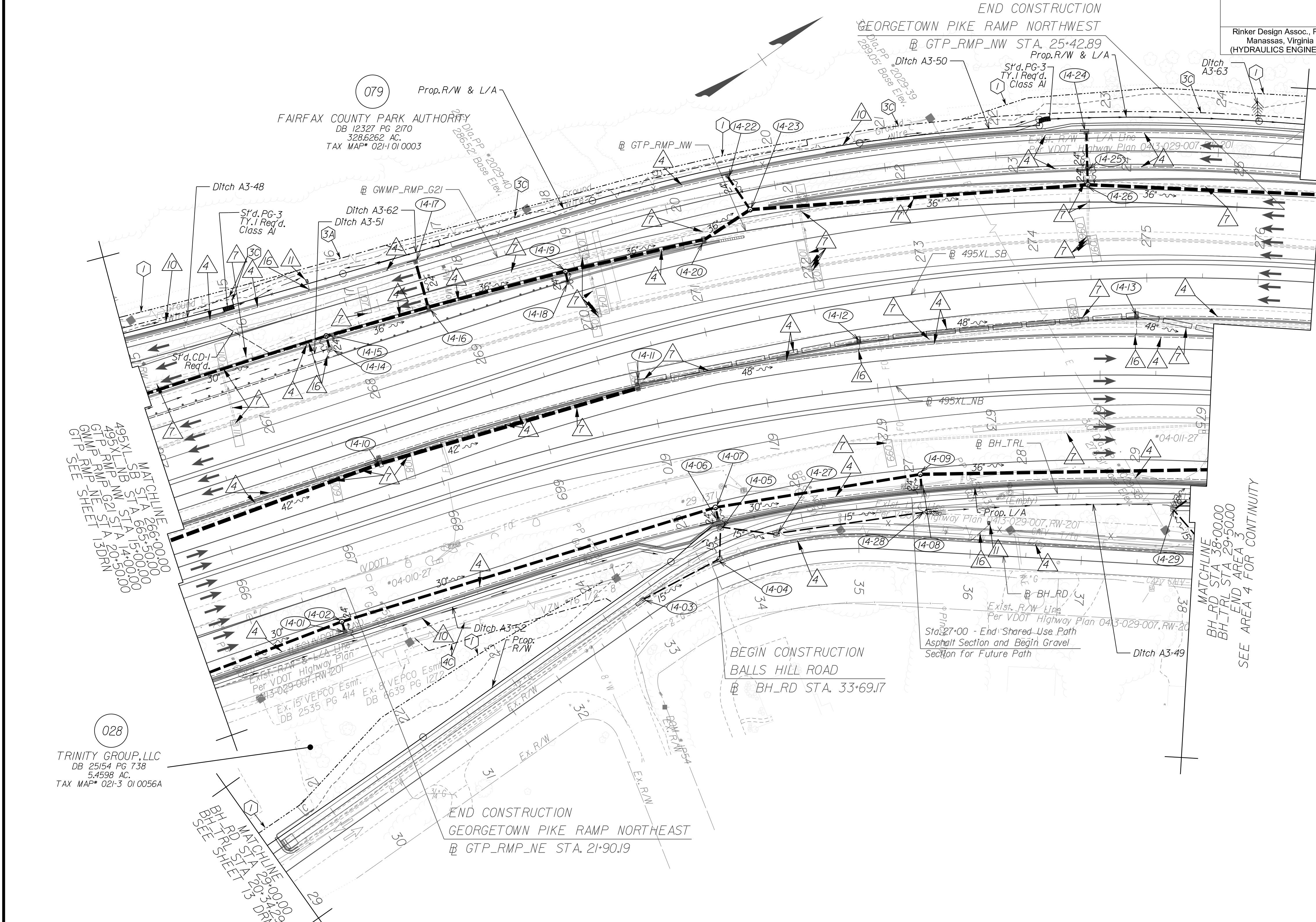
# Drainage Plan



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

REVISED	STATE	ROUTE	STATE	VDOT PROJECT NO.	SHEET NO.
	VA.	495		0495-029-419 PE101 CS01 RW201	14DRN AREA 3

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 26+50.00  
 495XL\_NB STA 67+50.00  
 GTP\_RMP\_G21 STA 24+75.00  
 SEE AREA 4 FOR CONTINUITY

MATCHLINE  
 BH\_RD STA 38+00.00  
 BH\_TRL STA 29+50.00  
 SEE AREA 4 FOR CONTINUITY

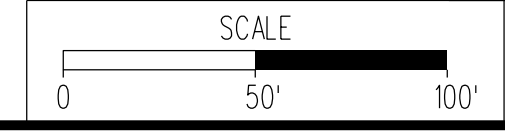
028  
 TRINITY GROUP, LLC  
 DB 25154 PG 738  
 5,4598 AC  
 TAX MAP\* 021-3 01 00564

079  
 FAIRFAX COUNTY PARK AUTHORITY  
 DB 12327 PG 2170  
 328,6262 AC  
 TAX MAP\* 021-1 01 0003

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(3)
Erosion Controls Ph1 & Ph2	N(14), N(14)
Typical Sections	2A thru 2B(8)
Ditch Lining Typical Sections	21
Drainage Descriptions	2K thru 2K(6)
Design Legend	22
Roadway Plan Sheet	14
Right of Way Plan Sheet	14RW
Alignment Data Sheet	14(1)
Profile 1-495 NB	14A
Profile 1-495 SB	14B
Profile Connections	14C thru 14G

NOTE:  
 SEE SHEET 22 FOR RIGHT-OF-WAY AND DESIGN LEGENDS.



VDOT PROJECT NO.	0495-029-419
SHEET NO.	14DRN AREA 3

APPROVED FOR CONSTRUCTION

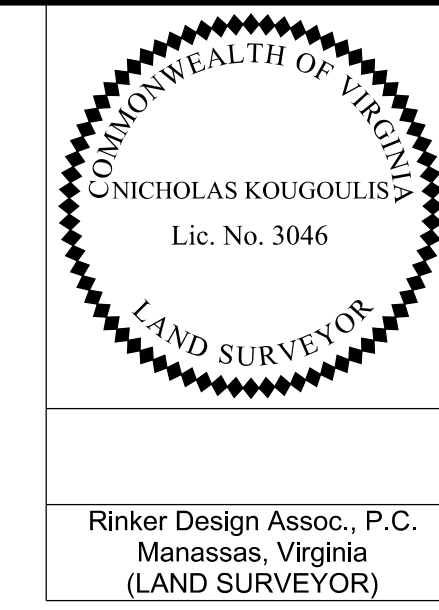
NOVA DISTRICT



PROJECT MANAGER\_VDOT - Bitrapal, S. P.E. (703) 259-2362  
 SURVEYED BY, DATE\_BDA - Nicholas Kougoullis, L.S. (703) 334-0837, 1/2019  
 DESIGN BY\_BDA - Darrell Elischer, P.E. (703) 334-0823  
 SUBSURFACE UTILITY BY, DATE\_Accumark - Mitchell Taylor, L.S. (703) 635-3060, 12/2021

Curve 495XL\_SB\_010  
 PI = 275+58.77  
 DELTA = 36°54'30.63" (RT)  
 D = 3'06"20"  
 T = 615.69'  
 L = 1188.50'  
 PC = 269+43.08  
 PCC = 281+31.59  
 DESIGN SPEED = 60 MPH  
 e = 7.00%  
 Lr = 685'

CURVE DATA TABLE (FT)						
	RADIUS	ARC	DELTA	TANGENT	CH. BEARING	CHORD
C216	4924.59	367.05	0°16'14"	183.61	N20°44'42"W	366.97
C217	9077.98	384.80	0°22'43"	192.43	N00°53'09"W	384.77
C220	1737.00	408.00	13°27'29"	204.94	S25°30'38"W	407.06
C221	1742.37	197.64	6°29'57"	98.93	S35°29'22"W	197.53
C222	2242.37	45.97	1°10'28"	22.99	S39°19'35"W	45.97
C223	358.00	19.83	0°31'02"	9.92	S01°15'31"W	19.83



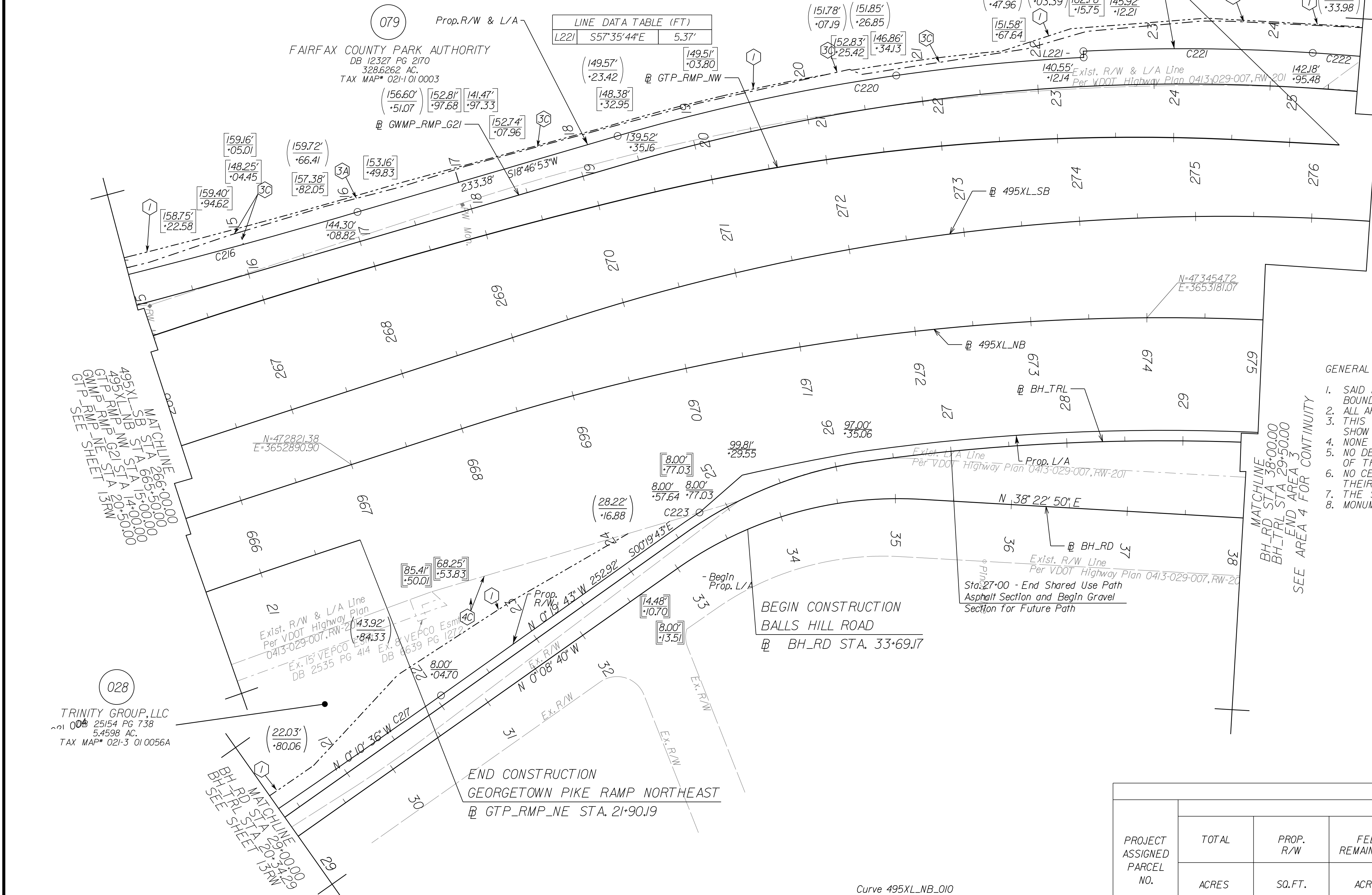
Rinker Design Assoc., P.C.  
 Manassas, Virginia  
 (LAND SURVEYOR)

REVISED	STATE	ROUTE	STATE	VDOT PROJECT NO.	SHEET NO.
RW001 RW002	VA	495		0495-029-419 C501 RW201	14RW AREA 3

DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT  
 (RW001) Revised parcel 079. See Sheet ID for details.  
 Added easement labels per VDOT request.  
 (RW002) Revised parcels 028 and 079. See Sheet ID for details.  
 LEGEND

- EXISTING PROPERTY MARKER (00.00' / -12.34)
- EXISTING PROPERTY LINE (00.00' / -12.34)
- EXISTING R/W LINE (00.00' / -12.34)
- CONSTRUCTION BASELINE (00.00' / -12.34)
- EXISTING PROPERTY MARKER (00.00' / -12.34)
- SET RM-2 (SEE NOTES) (N=515.309.05 VDOT PROJECT E=3361898.21 COORDINATES)
- IPF/IRF
- 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 (00.00' / -12.34)
- N=515.309.05 VDOT PROJECT E=3361898.21 COORDINATES
- DENOTES PROP. TEMP. CONSTR. EASE. FOR SLOPES (1)
- DENOTES PROP. TEMP. CONSTR. EASE. FOR ENTRANCES & PARKING LOTS (2)
- DENOTES PROP. TEMP. CONSTR. DRAINAGE EASE. (3A)
- DENOTES PROP. TEMP. CONSTR. DRAINAGE SLOPE EASE. (3B)
- DENOTES PROP. PERM. DRAINAGE WALL EASE. (3C)
- DENOTES PROP. PERM. DRAINAGE SLOPE EASE. (3D)
- DENOTES PROP. PERM. DRAINAGE EASE. (4)
- DENOTES PROP. VDOT UTILITY EASE. (4)
- DENOTES PROP. DOM. VDOT UTILITY EASE. (4C)

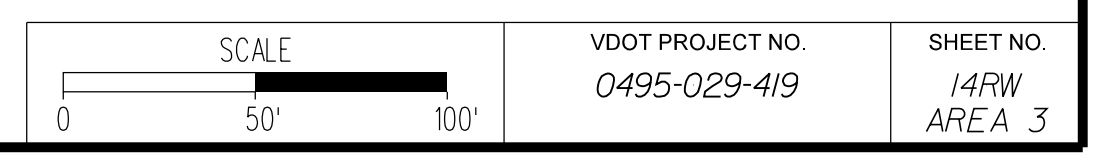
- GENERAL NOTES:
- SAID PROPERTY LINES ARE BEST FIT BASED ON COMPILED DATA AND DO NOT REPRESENT A BOUNDARY SURVEY.
  - ALL AREAS SHOWN ARE APPROXIMATE ONLY.
  - THIS PLAN SHEET WAS PREPARED WITHOUT THE BENEFIT OF A TITLE REPORT AND MAY NOT SHOW ALL EASEMENTS WHICH MAY AFFECT THE PROPERTY HEREON.
  - NONE OF THE PROPERTY'S PHYSICAL IMPROVEMENTS ARE SHOWN HEREON.
  - NO DESIGNATION OR LOCATION OF SUBSURFACE UTILITIES WAS PERFORMED DURING PREPARATION OF THIS PLAN SHEET.
  - NO CEMETERY SITES WERE OBSERVED ON THE SUBJECT PROPERTY. THIS DOES NOT PRECLUDE THEIR EXISTENCE.
  - THE SURVEY DATUM IS BASED ON THE TITLED VDOT PROJECT.
  - MONUMENTATION TO BE SET UPON COMPLETION OF CONSTRUCTION.



LINE DATA TABLE (FT)		
L221	S57°35'44"E	5.37'

Curve 495XL\_NB\_010  
 PI = 675+77.78  
 DELTA = 43°24'00.7" (RT)  
 D = 2'55"24"  
 T = 779.96'  
 L = 1484.61'  
 R = 1959.94'  
 PC = 667+97.82  
 PT = 682+82.42  
 DESIGN SPEED = 60 MPH  
 e = 6.80%  
 Lr = 665'

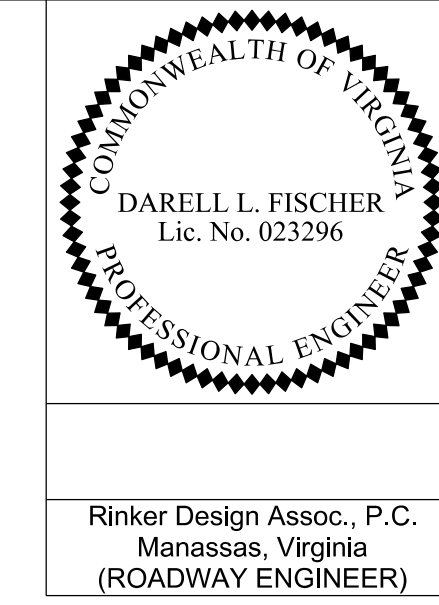
PROJECT ASSIGNED PARCEL NO.	APPROXIMATE AREAS										
	TOTAL ACRES	PROP. R/W SQ. FT.	FEE REMAINDER ACRES	DOM. VDOT UTILITY SQ. FT.	EASEMENT					TEMP. CONSTR.	
					PERMANENT		TEMP. CONSTR.				
028	5.460	19,340	5.016	3,239	4,450	-	-	-	21,815	-	
079	328.626	28,603	327.969	-	8,857	-	12,597	-	7,174	-	



APP. FOR ROW



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



REVISED	STATE	ROUTE	STATE	VDOT PROJECT NO.	SHEET NO.
	VA	495		0495-029-419 C501 RW201	14(1) AREA 3

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)

# Alignment Data

**Curve GTP\_RMP\_NW\_003**  
PI = 16'88.33  
DELTA = 5'23' 18.83" (RT)  
D = 1'07' 50"  
T = 238.49'  
L = 476.64'  
R = 5,068.00'  
PRC = 14.49.84  
PCC = 19.26.47  
DESIGN SPEED = 30 MPH  
e = N/C  
Lr = N/A

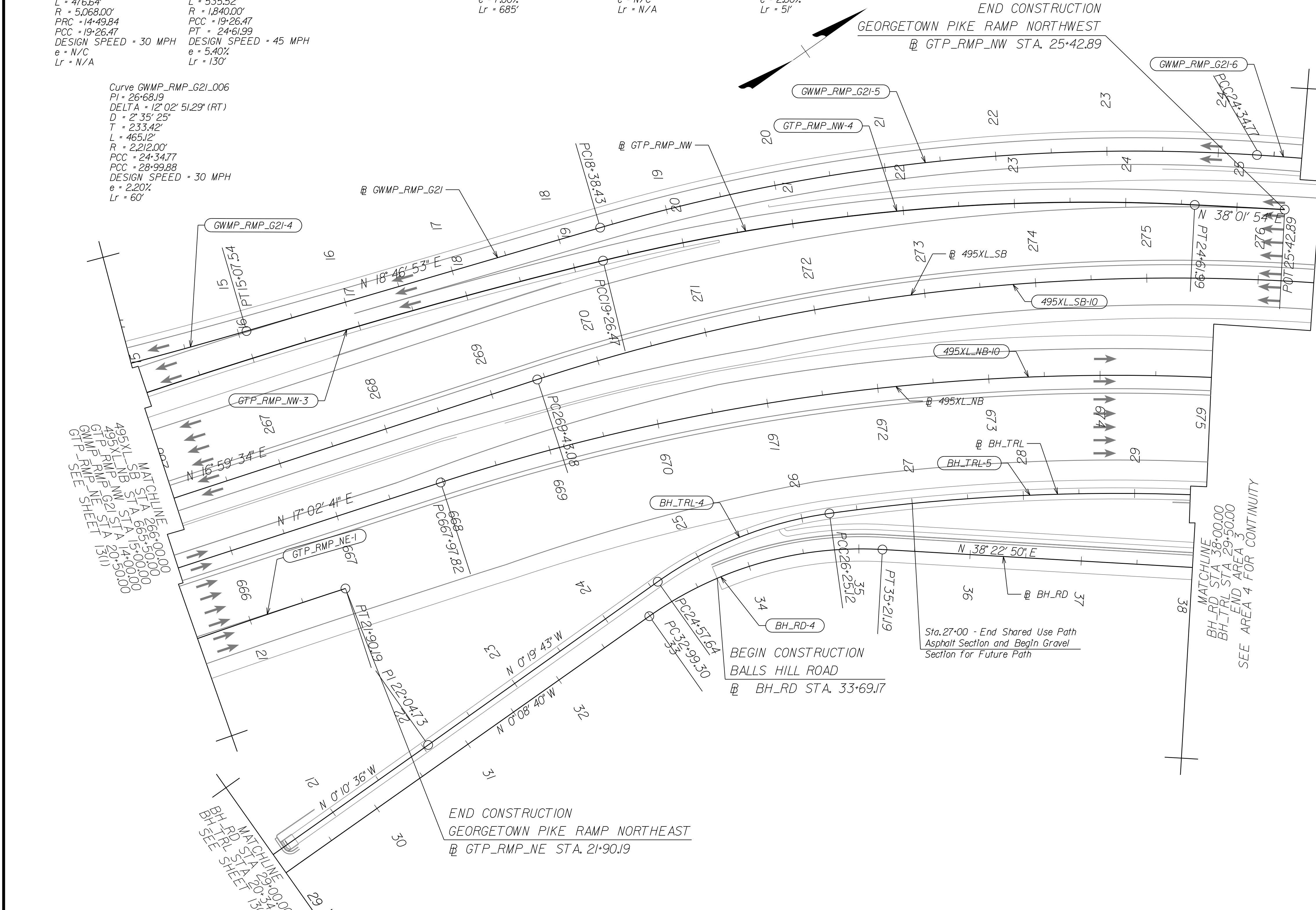
**Curve GTP\_RMP\_NW\_004**  
PI = 21'96.14  
DELTA = 16'40' 31.48" (RT)  
D = 3'06' 50"  
T = 269.66'  
L = 535.52'  
R = 1,840.00'  
PT = 19.26.47  
DESIGN SPEED = 45 MPH  
e = 5.40%  
Lr = 130'

**Curve 495XL\_SB\_010**  
PI = 275.58.77  
DELTA = 36'54' 30.63" (RT)  
D = 3'06' 20"  
T = 615.69'  
L = 1,188.50'  
R = 1,845.00'  
PC = 269.43.08  
PCC = 281.31.59  
DESIGN SPEED = 60 MPH  
e = 7.00%  
Lr = 685'

**Curve GWMP\_RMP\_G21\_004**  
PI = 13.47.32  
DELTA = 4'18' 42.59" (LT)  
D = 1'20' 42"  
T = 160.37'  
L = 320.59'  
R = 4,260.00'  
PCC = 11.86.95  
PT = 15.07.54  
DESIGN SPEED = 30 MPH  
e = N/C  
Lr = N/A

**Curve GWMP\_RMP\_G21\_005**  
PI = 21.39.65  
DELTA = 19'57' 27.66" (RT)  
D = 3'20' 48"  
T = 301.22'  
L = 596.34'  
R = 1,712.00'  
PC = 18.38.43  
PCC = 24.34.77  
DESIGN SPEED = 30 MPH  
e = 2.80%  
Lr = 5'

**Curve GWMP\_RMP\_G21\_006**  
PI = 26.68.19  
DELTA = 12'02' 51.29" (RT)  
D = 2'35' 25"  
T = 233.42'  
L = 465.12'  
R = 2,212.00'  
PCC = 24.34.77  
PCC = 28.99.88  
DESIGN SPEED = 30 MPH  
e = 2.20%  
Lr = 60'



MATCHLINE  
495XL\_SB STA 26+50.00  
495XL\_NB STA 67+50.00  
GTP\_RMP\_NW STA 24+75.00  
GTP\_RMP\_NE STA 21+90.00  
SEE AREA 4 FOR CONTINUITY

MATCHLINE  
BH\_RD STA 38+00.00  
BH\_TRL STA 29+50.00  
SEE AREA 4 FOR CONTINUITY

**Curve BH\_RD-4**  
PI = 34.14.62  
DELTA = 38'31' 30.20" (RT)  
D = 17'21' 44"  
T = 115.32'  
L = 221.89'  
R = 330.00'  
PC = 32.99.30  
PT = 35.21.19  
DESIGN SPEED = 25 MPH  
e = (MATCH EXISTING)  
Lr = N/A

**Curve BH\_TRL\_004**  
PI = 25.43.02  
DELTA = 27'25' 01.41" (RT)  
D = 16'22' 13"  
T = 85.38'  
L = 167.48'  
R = 350.00'  
PC = 24.57.64  
PCC = 26.25.12  
DESIGN SPEED = 18 MPH  
e = 2.00% (NC)  
Lr = N/A

**Curve BH\_TRL\_005**  
PI = 30.79.59  
DELTA = 27'32' 49.46" (RT)  
D = 3'05' 26"  
T = 454.47'  
L = 891.36'  
R = 1,853.95'  
PCC = 26.25.12  
PCC = 35.16.48  
DESIGN SPEED = 18 MPH  
e = 2.00% (NC)  
Lr = N/A

**Curve 495XL\_NB\_010**  
PI = 675.77.78  
DELTA = 43'24' 00.17" (RT)  
D = 2'55' 24"  
T = 779.96'  
L = 1,484.61'  
R = 1,959.94'  
PC = 667.97.82  
PT = 682.82.42  
DESIGN SPEED = 60 MPH  
e = 6.80%  
Lr = 665'

**Curve GTP\_RMP\_NE-1**  
PI = 19.67.72  
DELTA = 4'14' 29.99" (RT)  
D = 0'57' 10"  
T = 222.68'  
L = 445.15'  
R = 6,013.00'  
PC = 17.45.04  
PT = 21.90.19  
DESIGN SPEED = 50 MPH  
e = 2.00% (RC)  
Lr = 72'

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(3)
Erosion Controls PhJ & Ph2	1N(14), 1N(14)
Typical Sections	2A thru 2B(8)
Ditch Lining Typical Sections	2J
Drainage Descriptions	2K thru 2K(6)
Design Legend	2Z
Roadway Plan Sheet	14R
Drainage Plan Sheet	14DR
Right of Way Plan Sheet	14RW
Profile 1-495 NB	14A
Profile 1-495 SB	14B
Profile Connections	14C thru 14G

SCALE	VDOT PROJECT NO.	SHEET NO.
0 50' 100'	0495-029-419	14(1) AREA 3

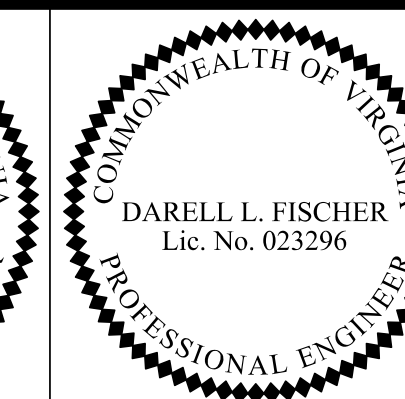
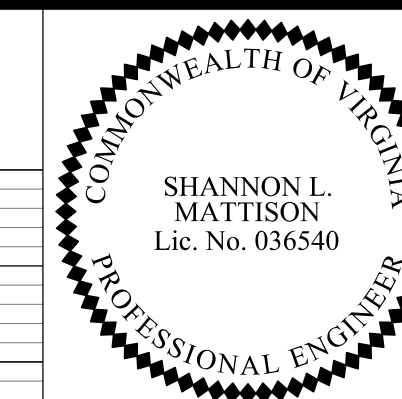
APPROVED FOR CONSTRUCTION

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 - Darell Fischer PE, (703) 334-0823  
SUBSURFACE UTI\_320 BY, DATE\_Accumark - Michael Taylor LS, (703) 635-3060, 12/2021

# 495 Express Lanes Northbound

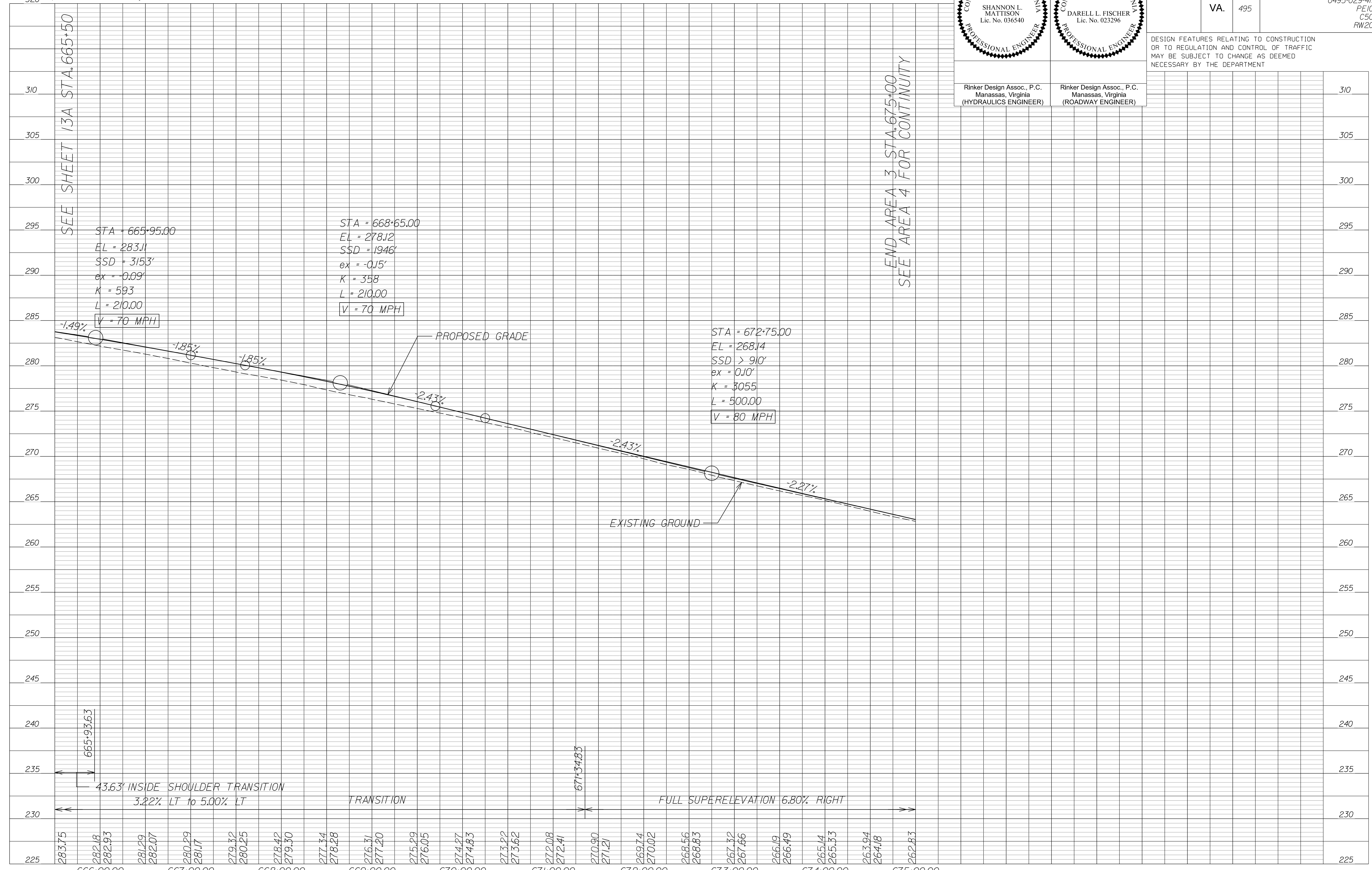


Rinker Design Assoc., P.C.  
Manassas, Virginia  
(HYDRAULICS ENGINEER)

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

REVISED	STATE	ROUTE	STATE PROJECT	SHEET NO
	VA.	495	0495-029-419 FE101 CS01 RW201	14A AREA 3

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

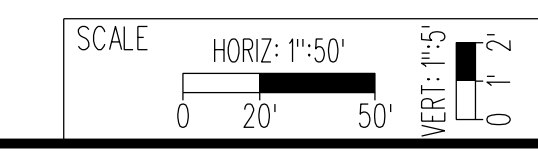


SEE SHEET 13A STA. 665+50

END AREA 3 STA. 675+00  
SEE AREA 4 FOR CONTINUITY

NOVA DISTRICT

10/16/2022



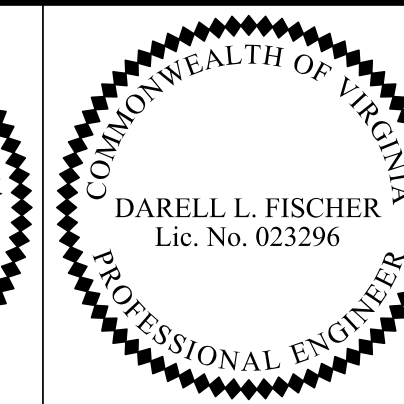
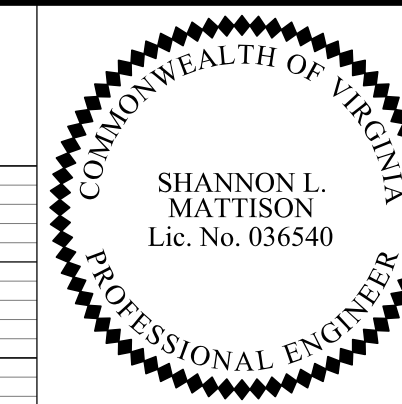
VDOT PROJECT NO. 0495-029-419  
SHEET NO. 14A  
AREA 3

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 - Darel L Fischer PE, (703) 334-0823  
SUBSURFACE UTILITY BY, DATE Accumark - Michael Taylor LS, (703) 635-3060, 12/2021

# 495 Express Lanes Southbound

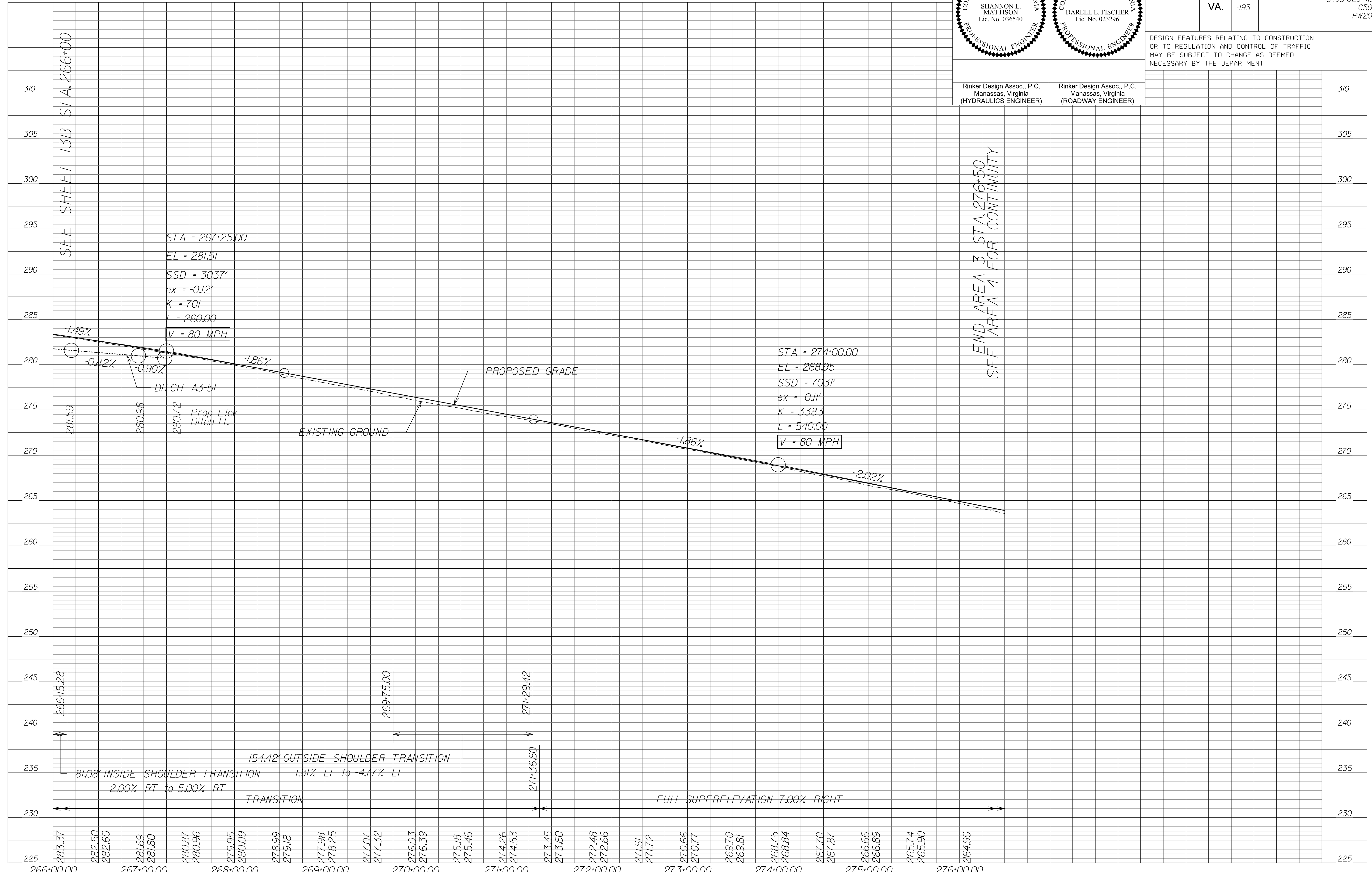


Rinker Design Assoc., P.C.  
Manassas, Virginia  
(HYDRAULICS ENGINEER)

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

REVISED	STATE	ROUTE	STATE PROJECT	SHEET NO
	VA.	495	0495-029-419 C501 RW201	14B AREA 3

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

10/16/2022

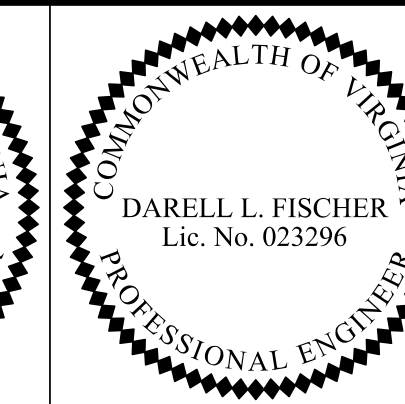
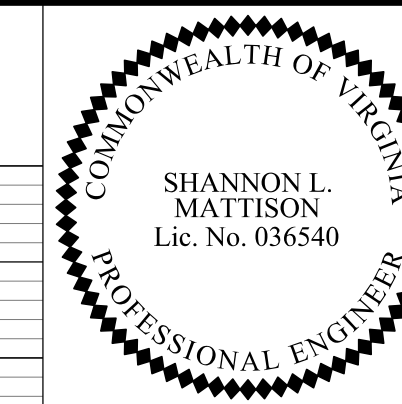
SCALE	HORIZ: 1"=50'	VERT: 1"=5'	VDOT PROJECT NO. 0495-029-419	SHEET NO. 14B AREA 3
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APPROVED FOR CONSTRUCTION



PROJECT MANAGER\_VDOT - Rimpal Stab PE (703) 259-2362  
SURVEYED BY\_DATE\_BDA - Nicolas Kougoullis LS (703) 334-0837 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

# Balls Hill Road

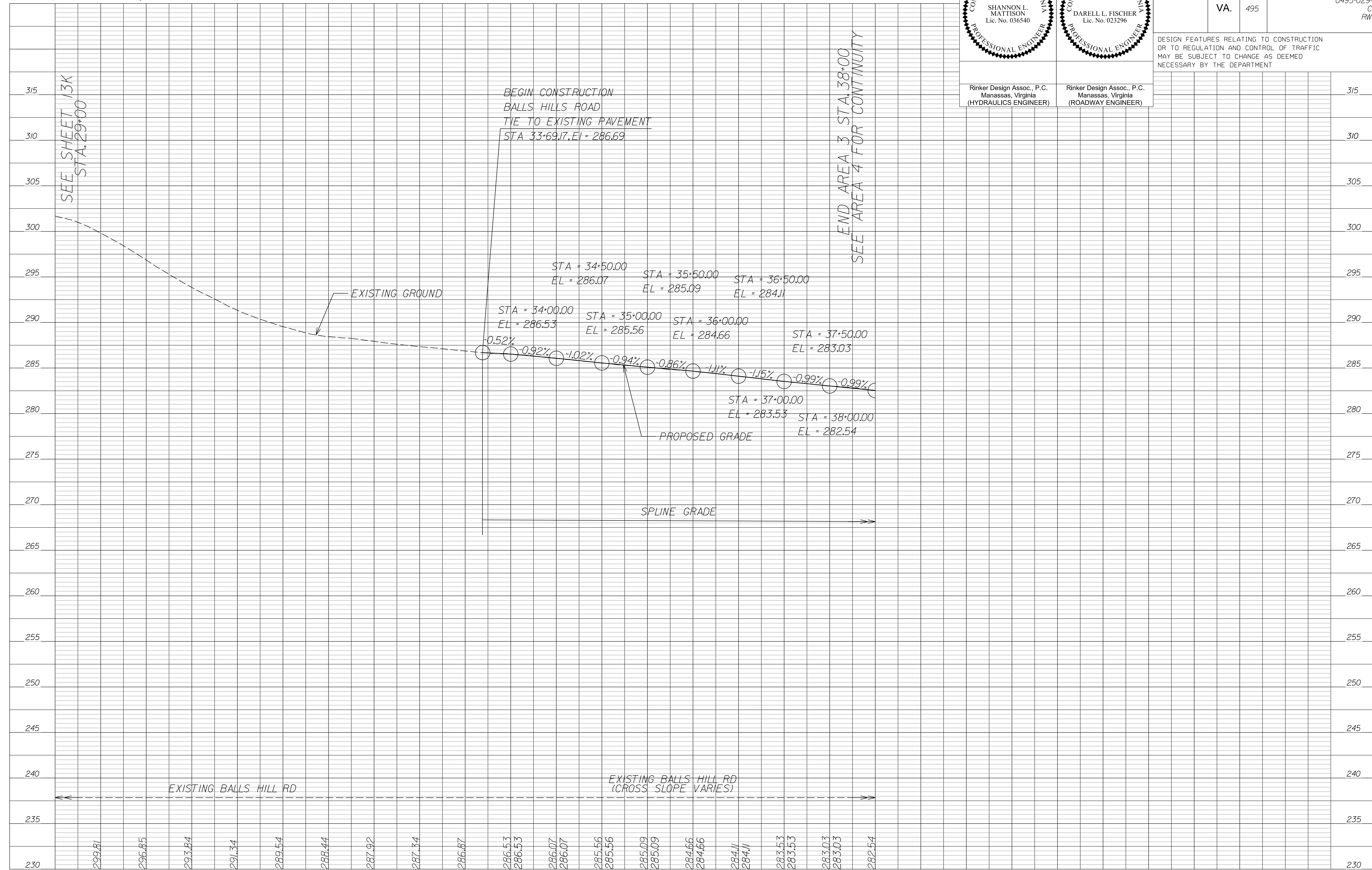


Rinker Design Assoc., P.C.  
Manassas, Virginia  
(HYDRAULICS ENGINEER)

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Manassas, Virginia  
(ROADWAY ENGINEER)

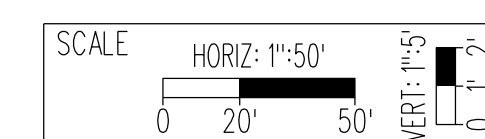
REVISED	STATE	ROUTE	STATE PROJECT	SHEET NO
	VA.	495	0495-029-419 C501 RW201	14C AREA 3

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

10/16/2022



VDOT PROJECT NO. 0495-029-419

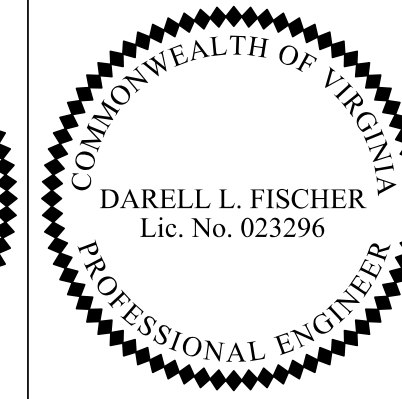
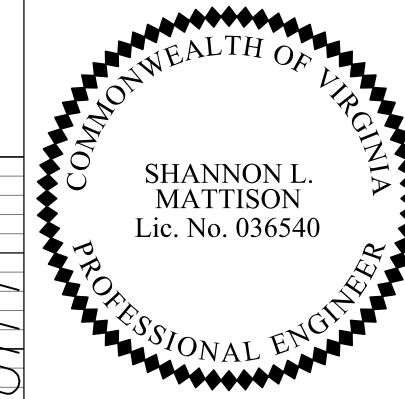
SHEET NO. 14C AREA 3

APPROVED FOR CONSTRUCTION



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

# Balls Hill Shared Use Path

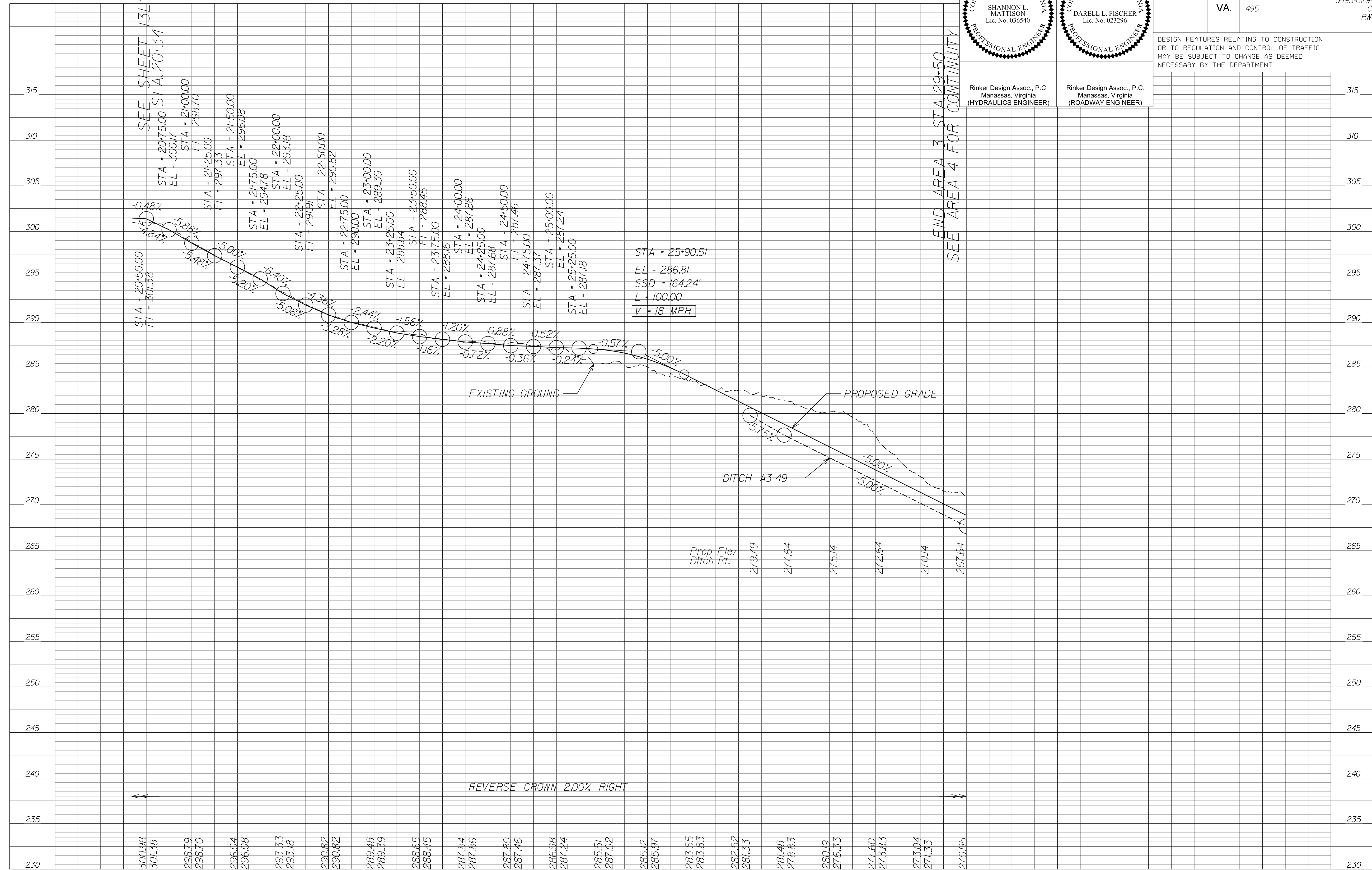


REVISED	STATE	ROUTE	STATE PROJECT	SHEET NO.
	VA.	495	0495-029-419 C501 RW201	14D AREA 3

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)

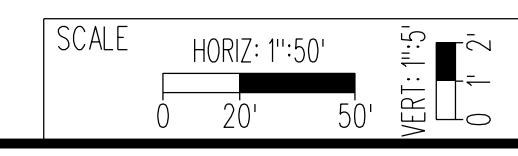
Rinker Design Assoc., P.C.  
Manassas, Virginia  
(ROADWAY ENGINEER)



END AREA 3 STA. 29+50  
SEE AREA 4 FOR CONTINUITY

NOVA DISTRICT

10/16/2022



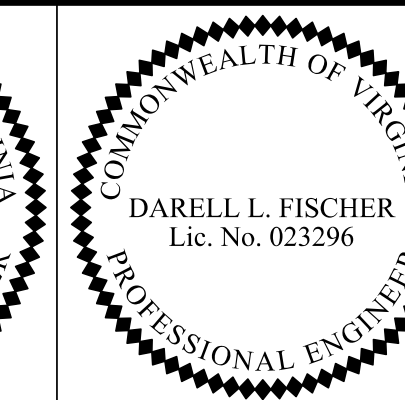
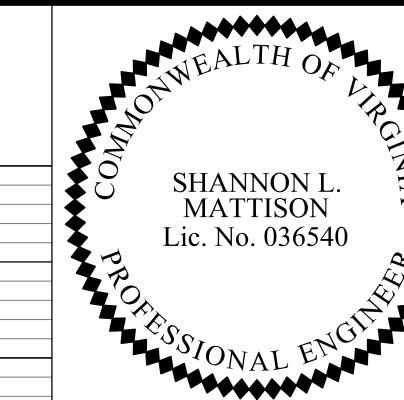
VDOT PROJECT NO. 0495-029-419	SHEET NO. 14D AREA 3
----------------------------------	----------------------------

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 - Accumar - Michael Taylor LS (703) 635-3060 12/2021

# Georgetown Pike Ramp Northeast

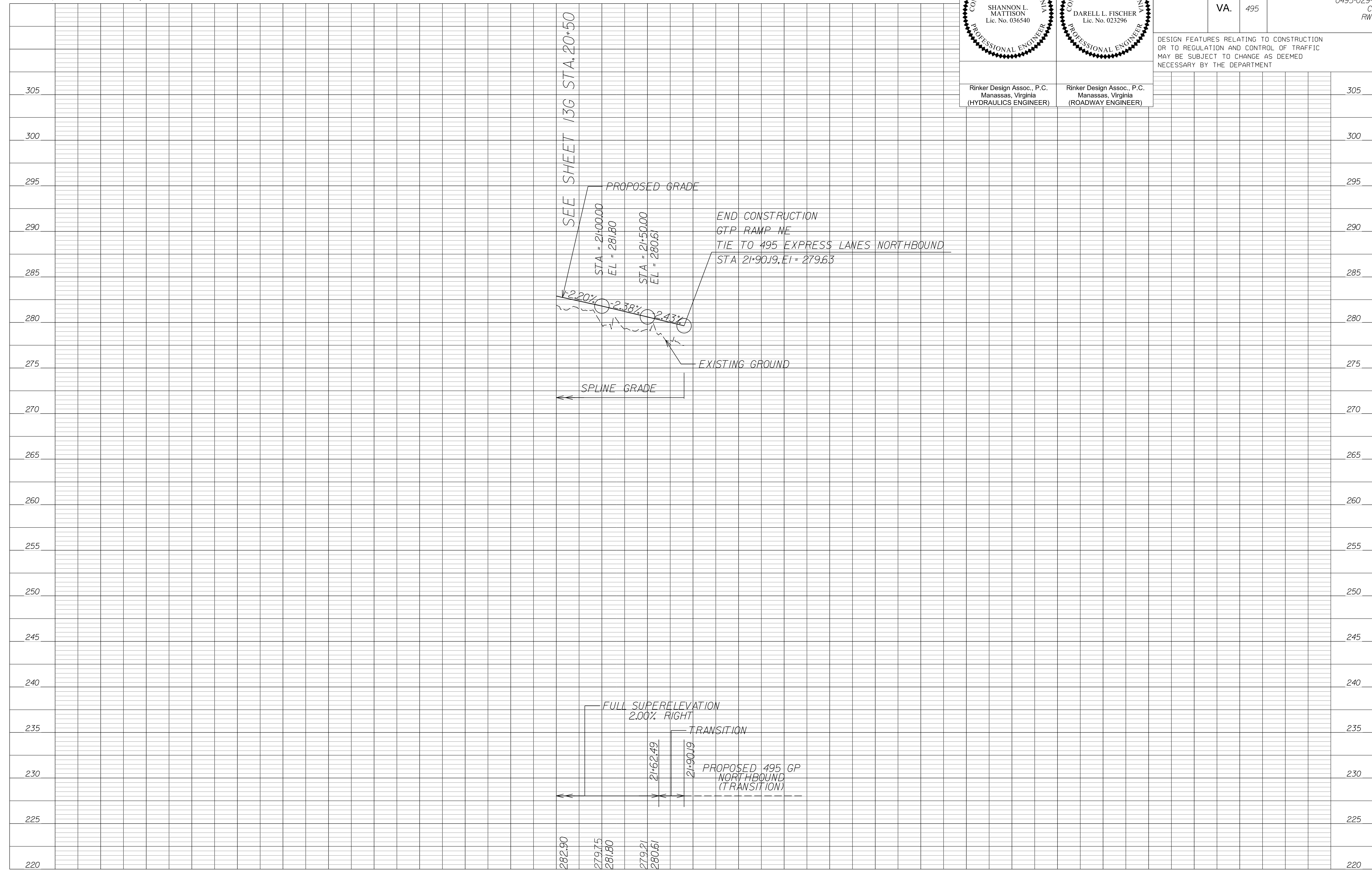


Rinker Design Assoc., P.C.  
Manassas, Virginia  
(HYDRAULICS ENGINEER)

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

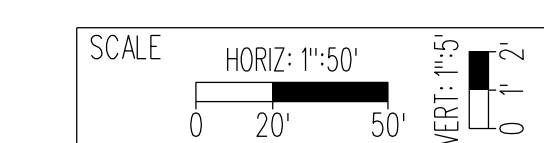
REVISED	STATE	ROUTE	STATE PROJECT	SHEET NO
	VA.	495	0495-029-419 C501 RW201	14E AREA 3

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

10/16/2022



VDOT PROJECT NO. 0495-029-419

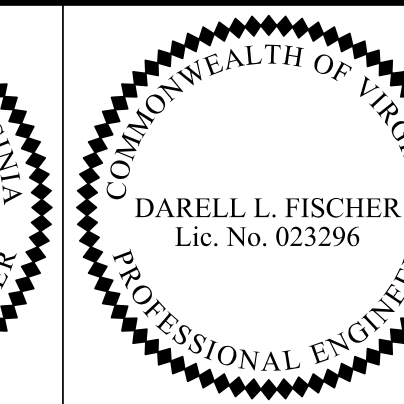
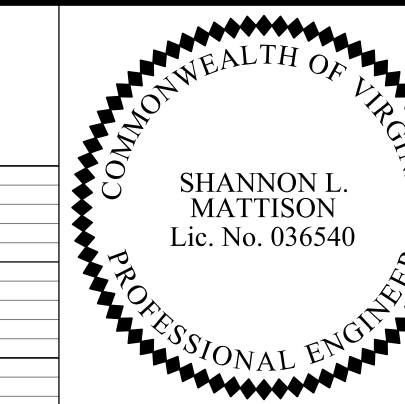
SHEET NO. 14E AREA 3

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

# Georgetown Pike Ramp Northwest

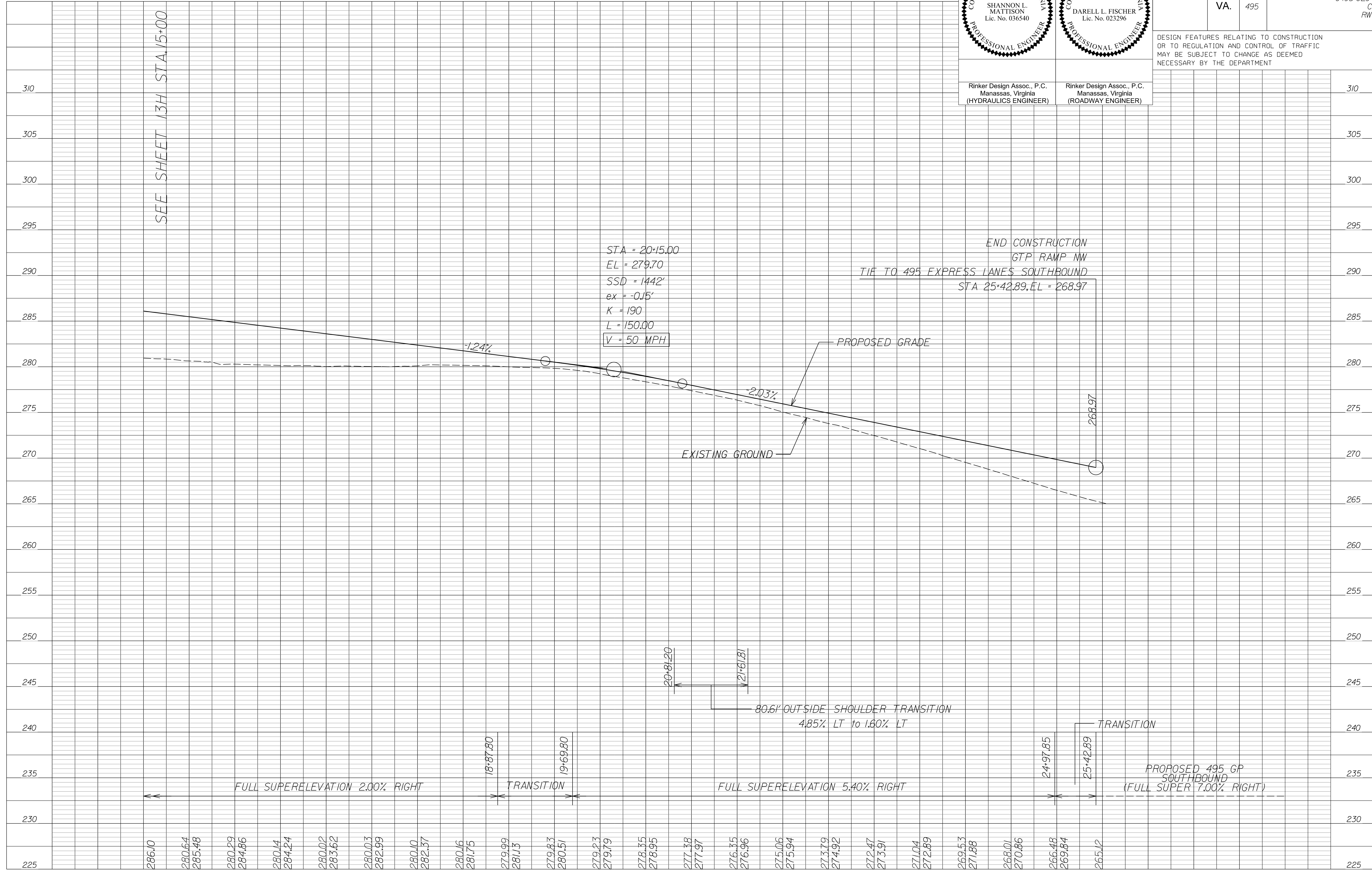


Rinker Design Assoc., P.C.  
Manassas, Virginia  
(HYDRAULICS ENGINEER)

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

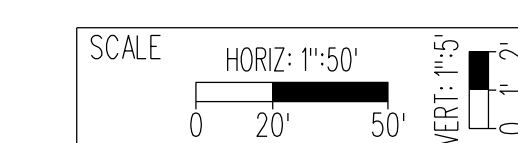
REVISED	STATE	ROUTE	STATE PROJECT	SHEET NO
	VA.	495	0495-029-419 C501 RW201	14F AREA 3

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

10/16/2022



VDOT PROJECT NO. 0495-029-419

SHEET NO. 14F AREA 3

APPROVED FOR CONSTRUCTION



PROJECT MANAGER\_VDOT - Rimpal Stab PE (703) 259-2362  
SURVEYED BY\_DATE - BDA - Nicholas Kougoulis LS (703) 334-0837 J2/2021  
DESIGN BY\_BDA - Darell L Fischer PE (703) 334-0823  
SUBSURFACE UTILITY BY\_DATE - Accumark - Michael Taylor LS (703) 635-3060 J2/2021

# George Washington Memorial Pkwy Ramp G2I

SHANNON L. MATTISON  
Lic. No. 036540  
PROFESSIONAL ENGINEER

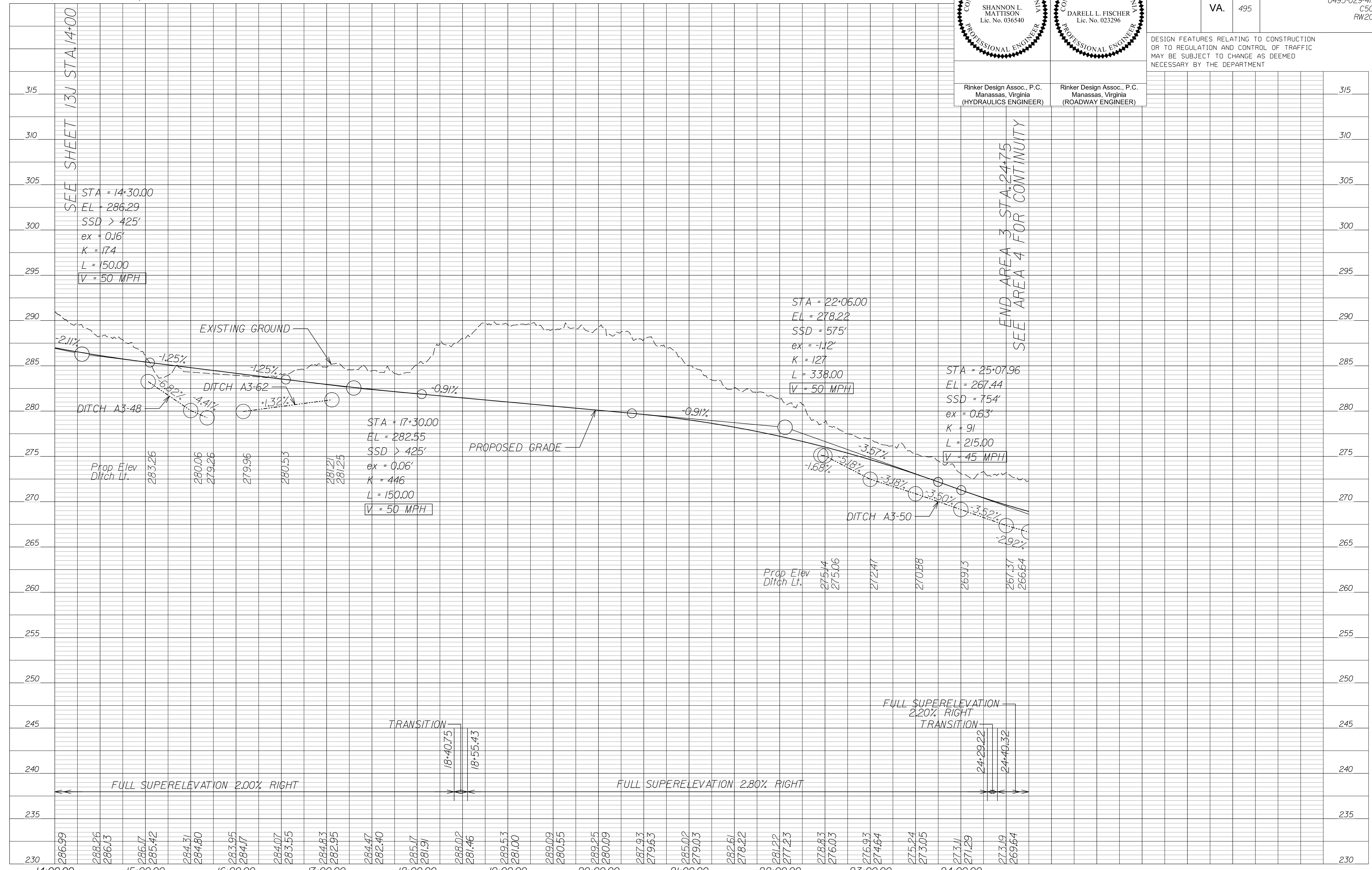
DARELL L. FISCHER  
Lic. No. 023296  
PROFESSIONAL ENGINEER

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	14G AREA 3

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 13J STA. 14+00

END AREA 3 STA. 24+75  
SEE AREA 4 FOR CONTINUITY

NOVA DISTRICT

10/16/2022

SCALE HORIZ: 1"=50'  
VERT: 1"=5'

VDOT PROJECT NO. 0495-029-419

SHEET NO. 14G AREA 3

APPROVED FOR CONSTRUCTION



PROJECT MANAGER VDOT - *Ritpal 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 Accurark - *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 3

*Cross Section Sheet Index*

<i>I-495 XL NB Sta. 615+00.00 to Sta. 675+00.00</i>	<i>X2-X38</i>
<i>I-495 XL SB Sta. 215+50.00 to Sta. 276+50.00</i>	<i>X51-X95</i>
<i>GTP Ramp SW Sta. 10+35.88 to Sta. 21+54.41</i>	<i>X101-X108</i>
<i>GTP Ramp SE Sta. 10+00.00 to Sta. 21+63.24</i>	<i>X151-X158</i>
<i>GTP Ramp NW Sta. 5+19.00 to Sta. 25+42.89</i>	<i>X201-X218</i>
<i>GTP Ramp NE Sta. 10+56.36 to Sta. 21+90.19</i>	<i>X251-X257</i>
<i>GWMP Ramp G2I Sta. 2+41.41 to Sta. 24+75.09</i>	<i>X301-X323</i>
<i>Georgetown Pike Sta. 14+63.61 to Sta. 34+23.80</i>	<i>X351-X362</i>
<i>Balls Hill Road Sta. 33+69.17 to Sta. 38+00.00</i>	<i>X401-X404</i>
<i>Balls Hill Trail Sta. 10+42.56 to Sta. 29+50.00</i>	<i>X451-X463</i>
<i>Lewinsville Trail Sta. 49+75.00 to Sta. 89+65.52</i>	<i>X501-X534</i>
<i>Temp GTP Ramp NW Phase IB</i>	<i>X701-X703</i>
<i>Temp GTP Ramp NW Phase IC</i>	<i>X751-X753</i>

REVISED	STATE	ROUTE	STATE	VDOT PROJECT NO.	SHEET NO.
	VA.	495		0495-029-419 C501 RW201	X1 AREA 3

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 3
----------------------------------	---------------------------

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

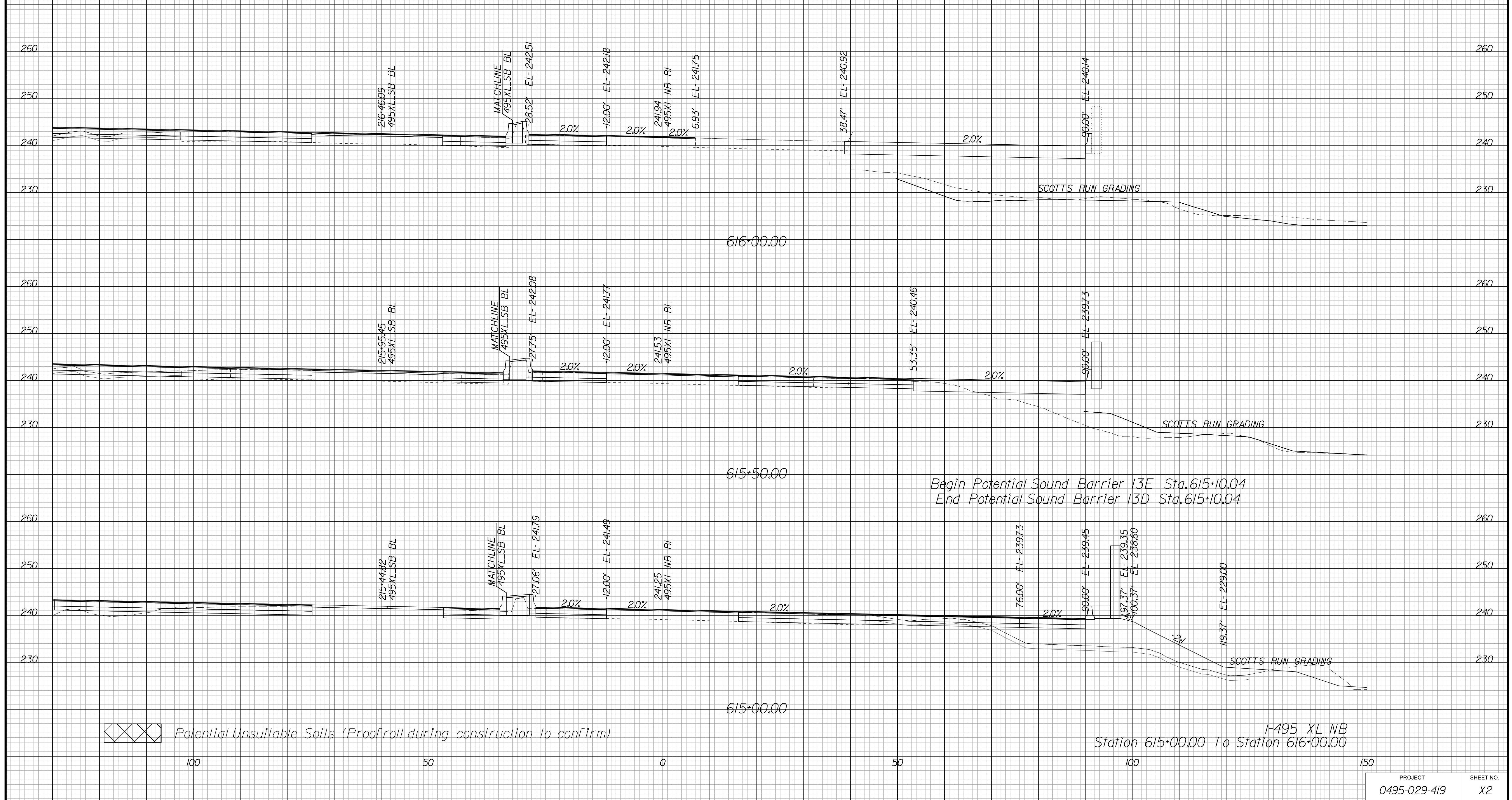
SCALE 1 IN. = 10 FT

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	X2 AREA 3

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-636 Sta. 616+36.07



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 - 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

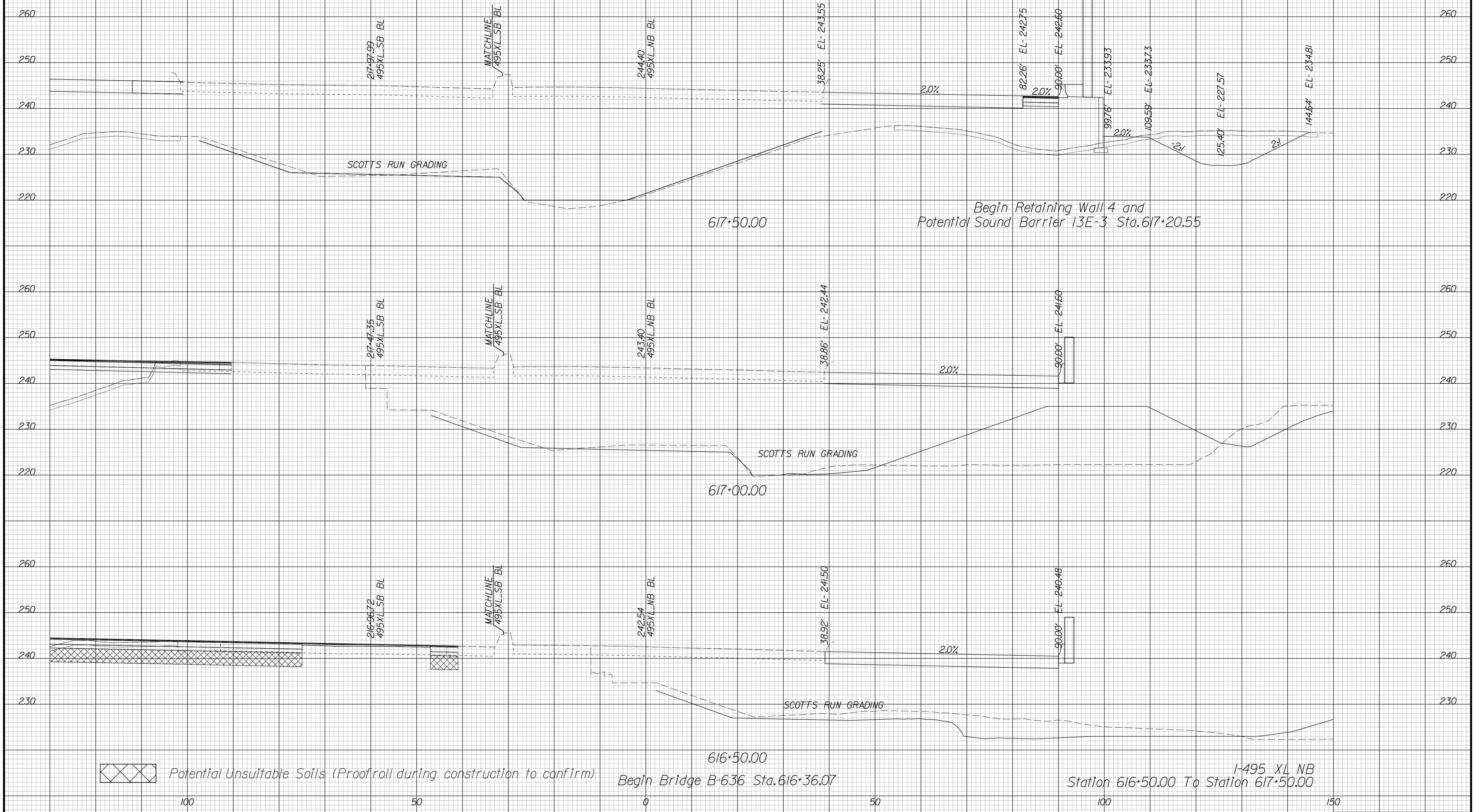
# CROSS SECTIONS

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	X3 AREA 3

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

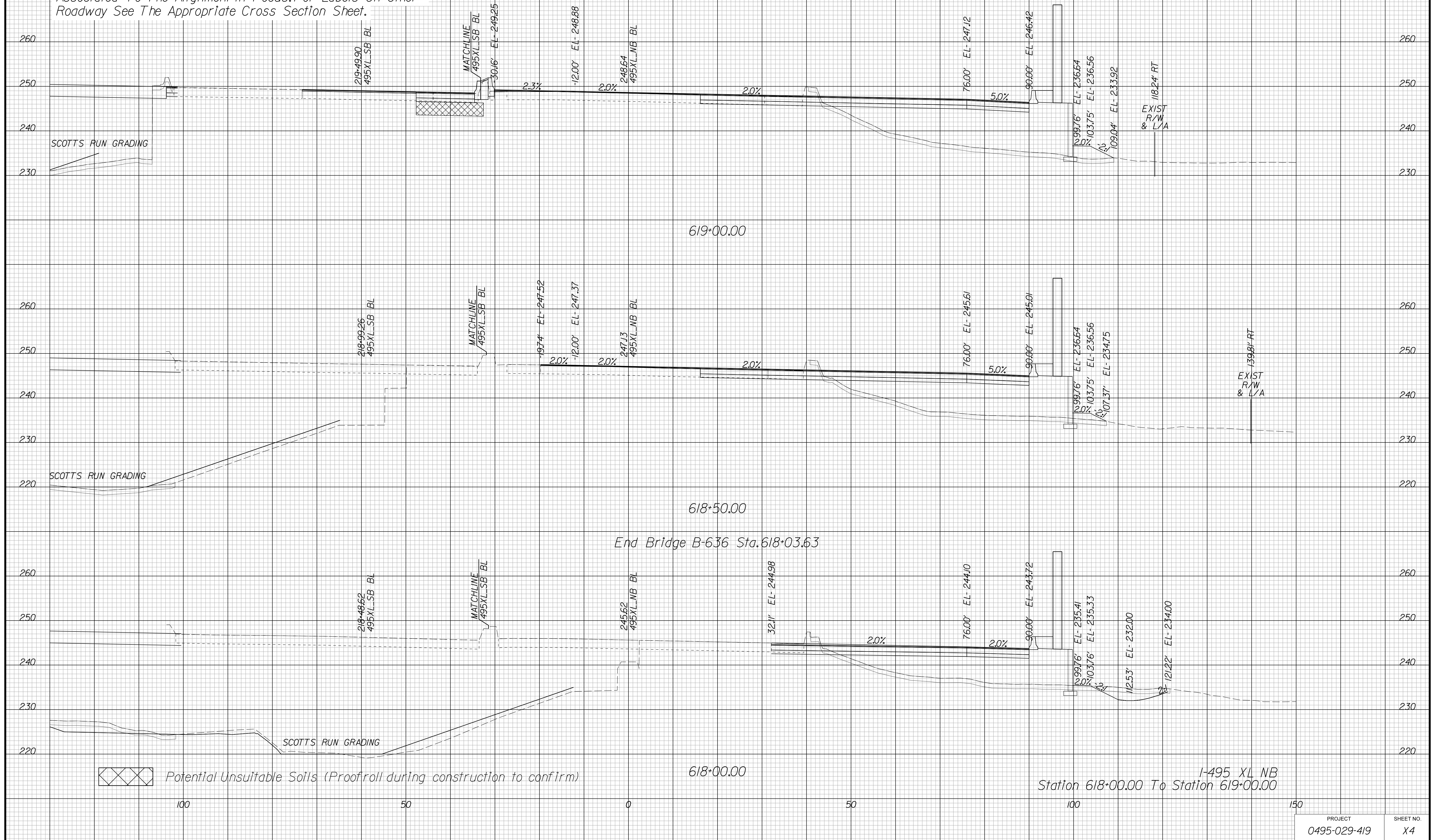
# CROSS SECTIONS

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	X4 AREA 3

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

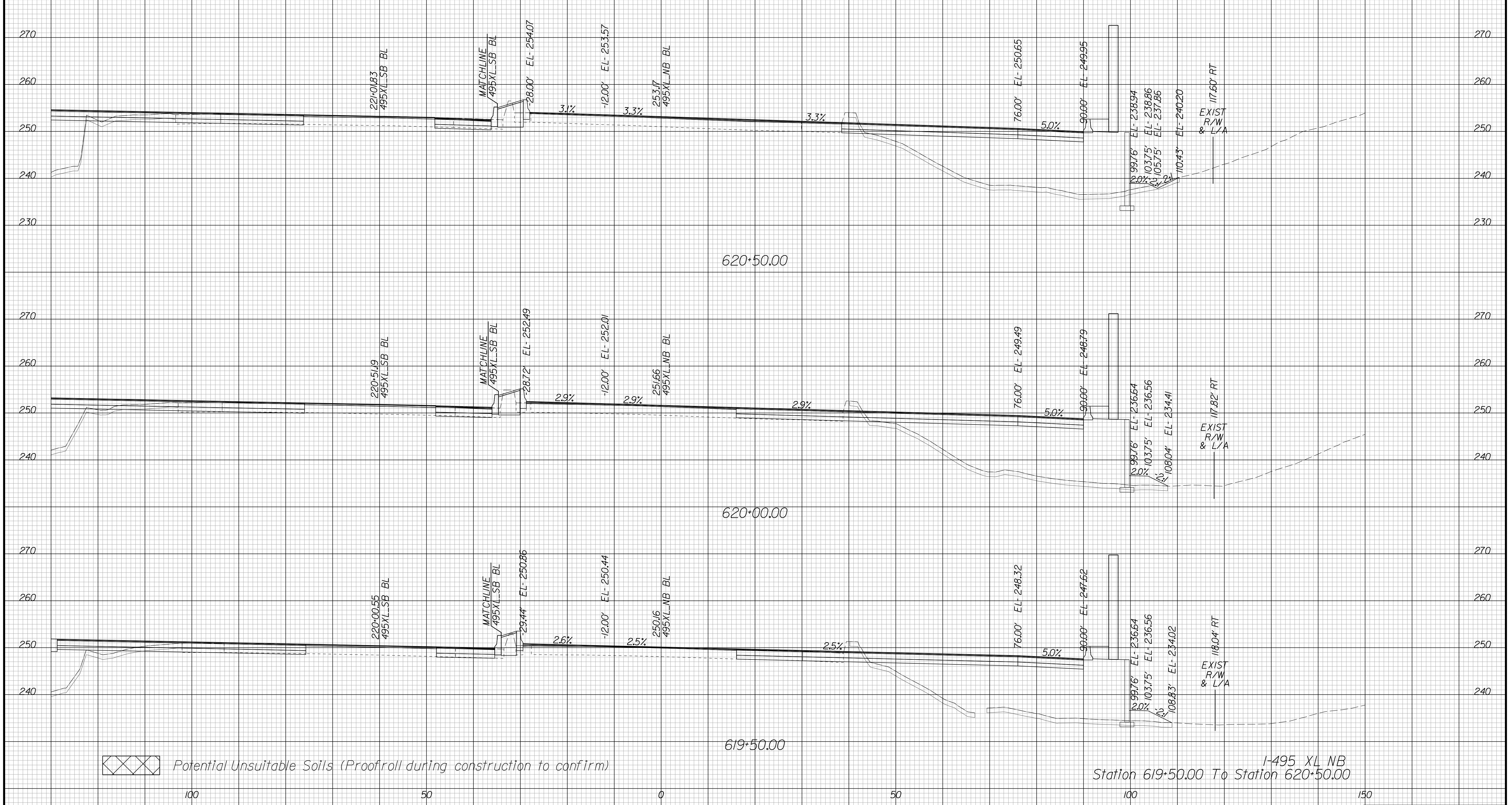
### CROSS SECTIONS

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	X5 AREA 3

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

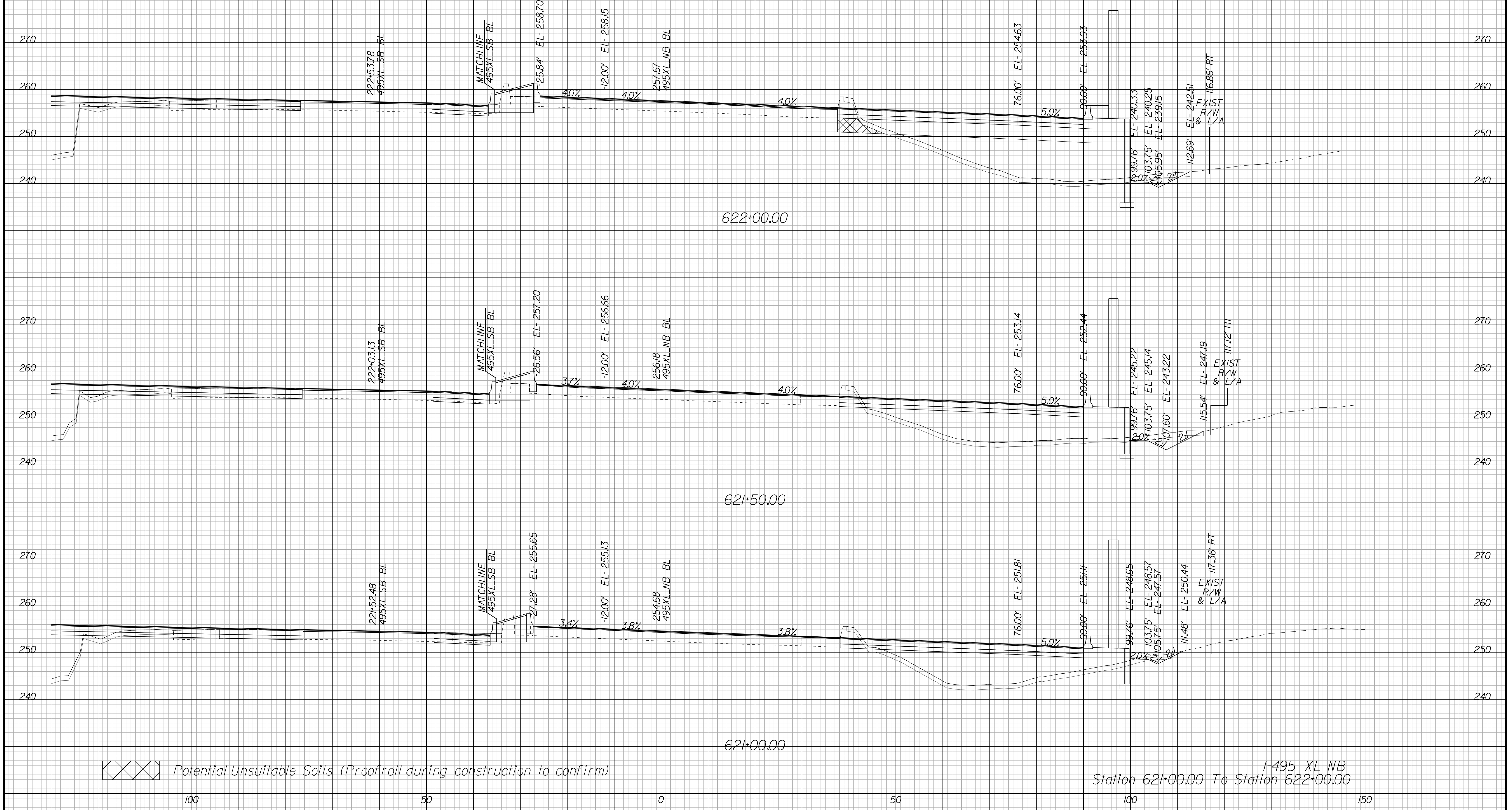
# CROSS SECTIONS

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	X6 AREA 3

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 621+00.00 To Station 622+00.00

PROJECT	SHEET NO.
0495-029-419	X6

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, Dawberly - Ron Jakominich PE (703) 849-0651  
SUBSURFACE UTILITY BY DATE Accurmark - Michael Taylor LS (703) 635-3060, 12/2021

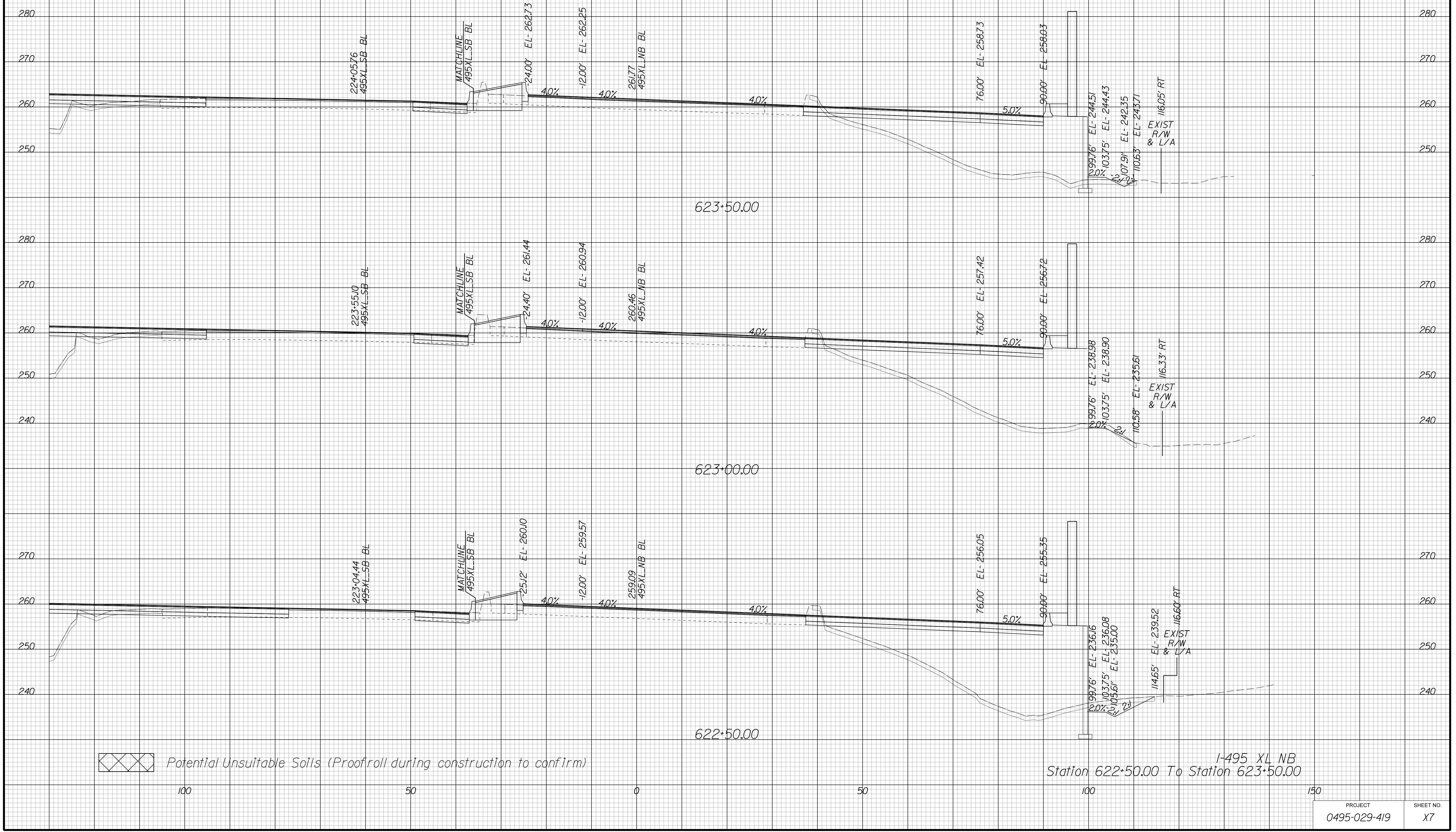
# CROSS SECTIONS

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	X7 AREA 3

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	X8 AREA 3

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	X9 AREA 3

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 626+00.00 To Station 627+00.00

PROJECT	SHEET NO.
0495-029-419	X9

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

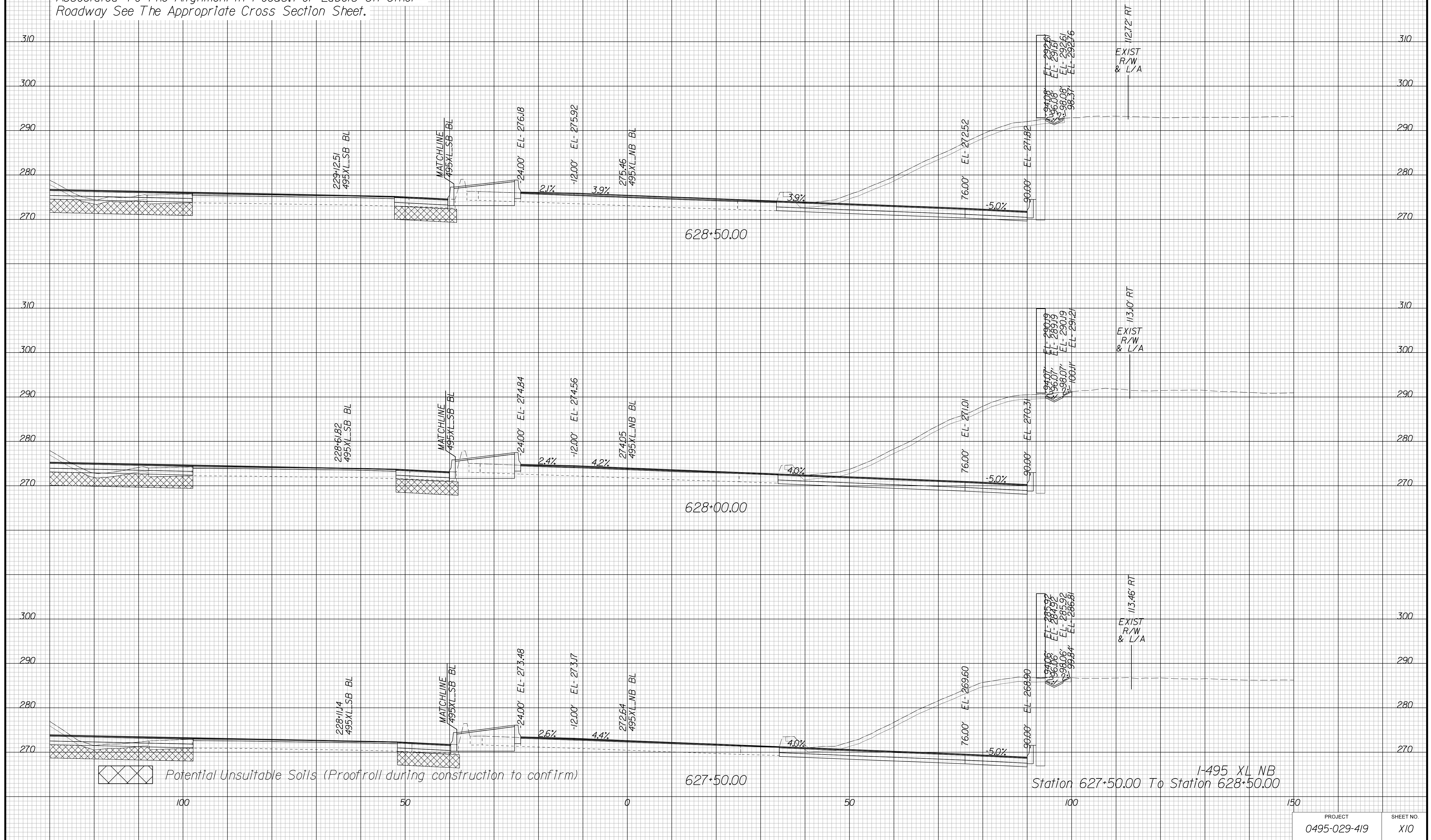
# CROSS SECTIONS

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	X10 AREA 3

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

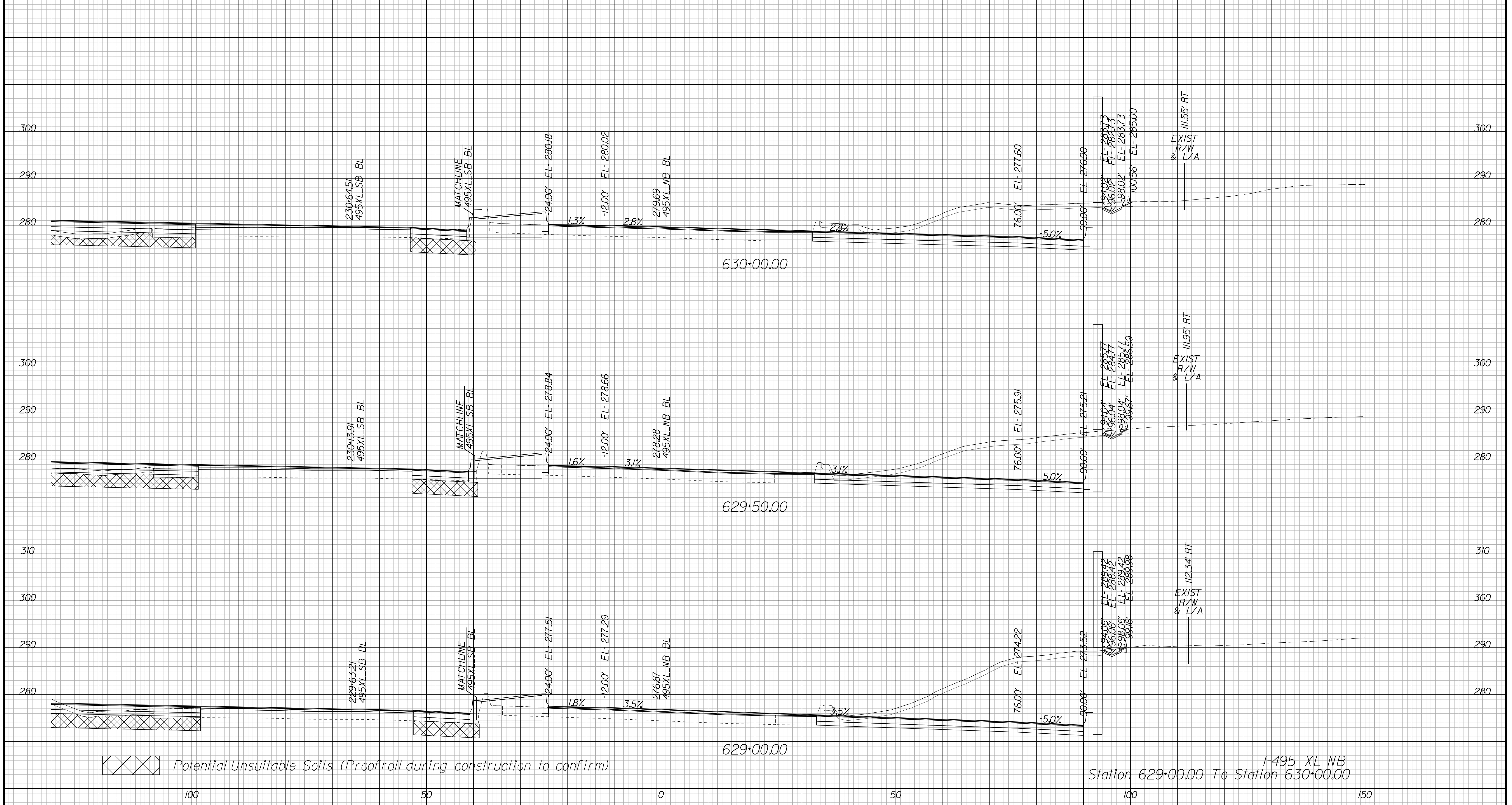
# CROSS SECTIONS

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	XII AREA 3

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 629+00.00 To Station 630+00.00

PROJECT	SHEET NO.
0495-029-419	XII

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

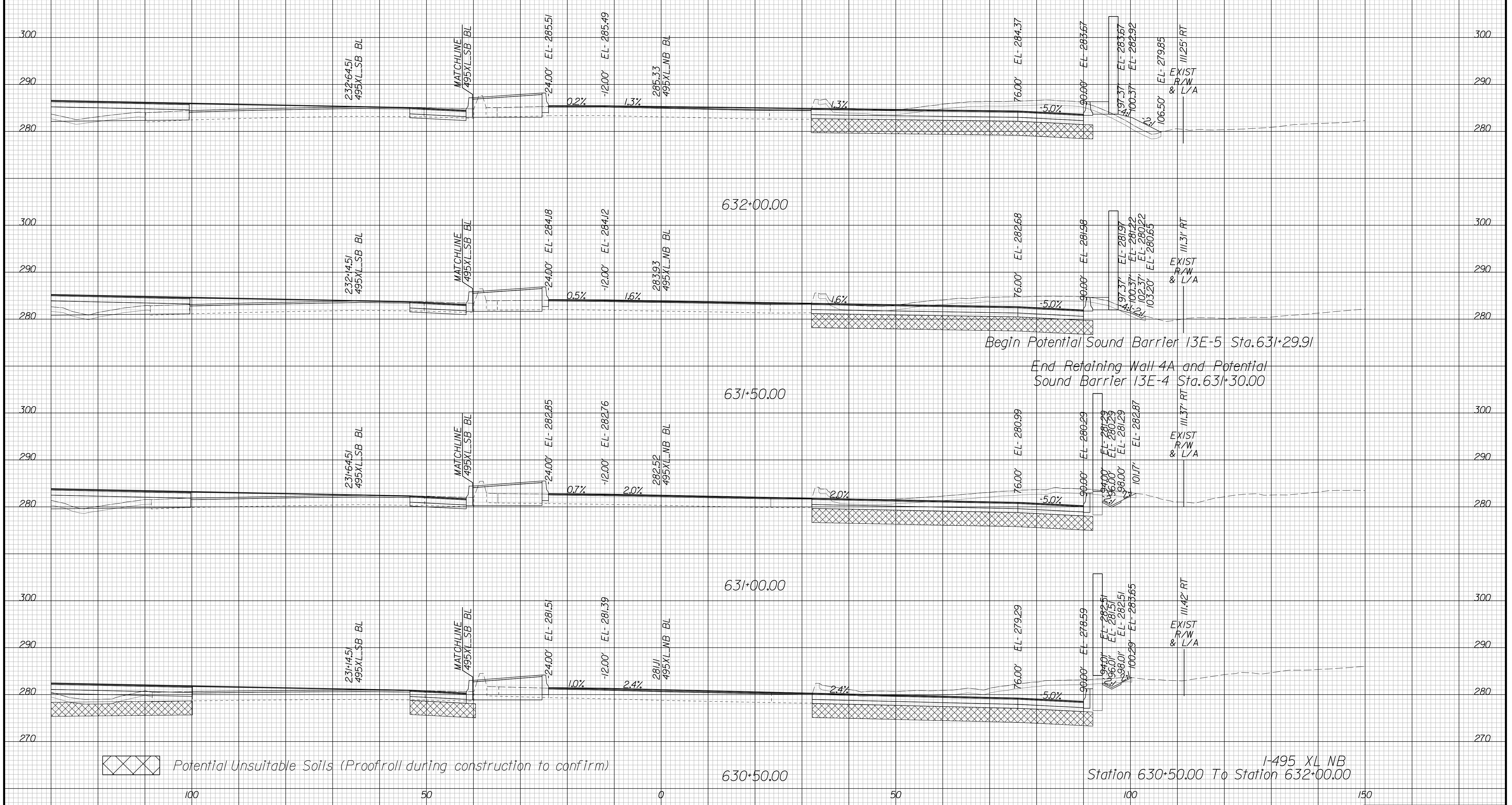
# CROSS SECTIONS

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	X12 AREA 3

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

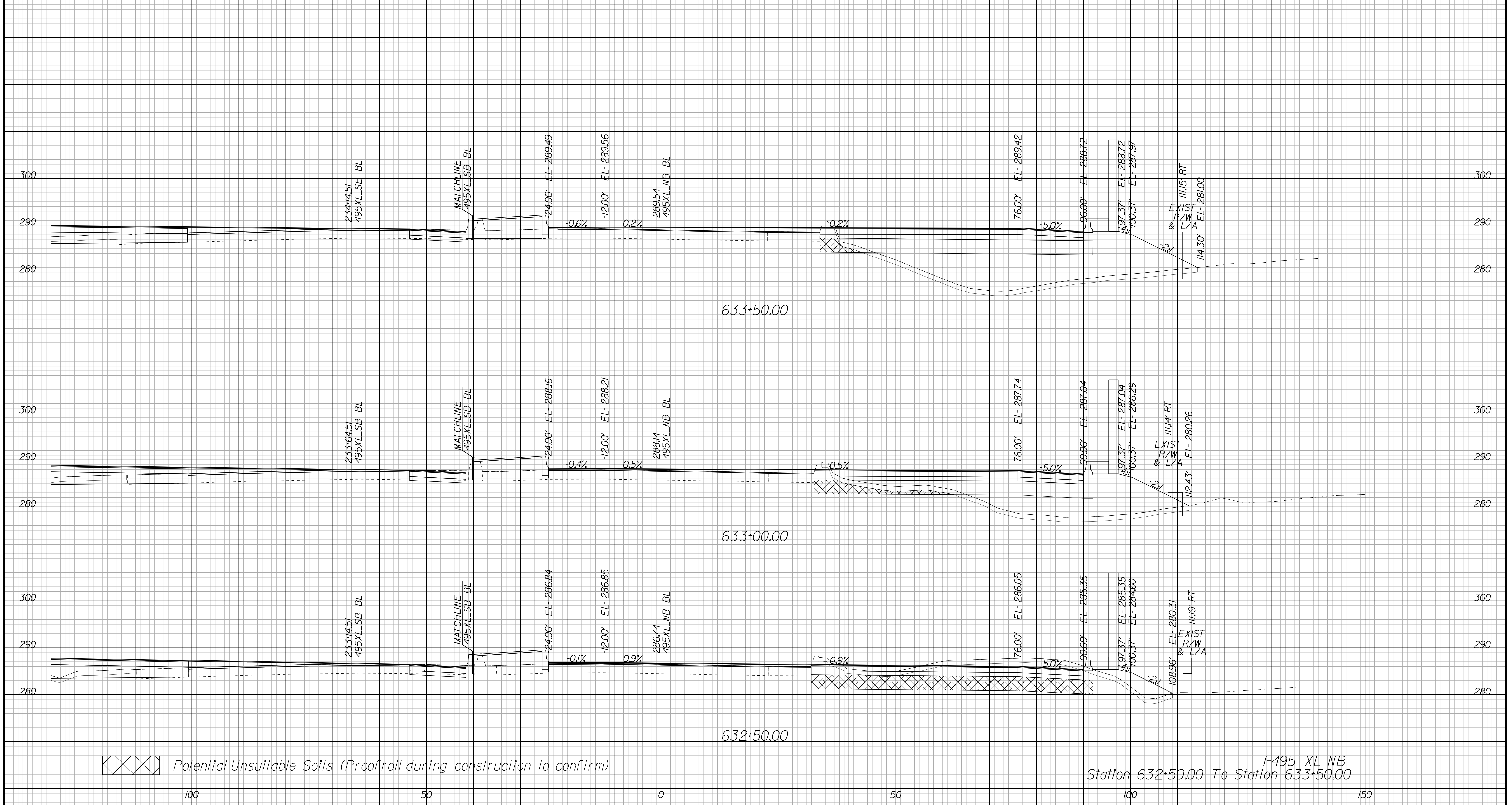
# CROSS SECTIONS

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	X13 AREA 3

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 632+50.00 To Station 633+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 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

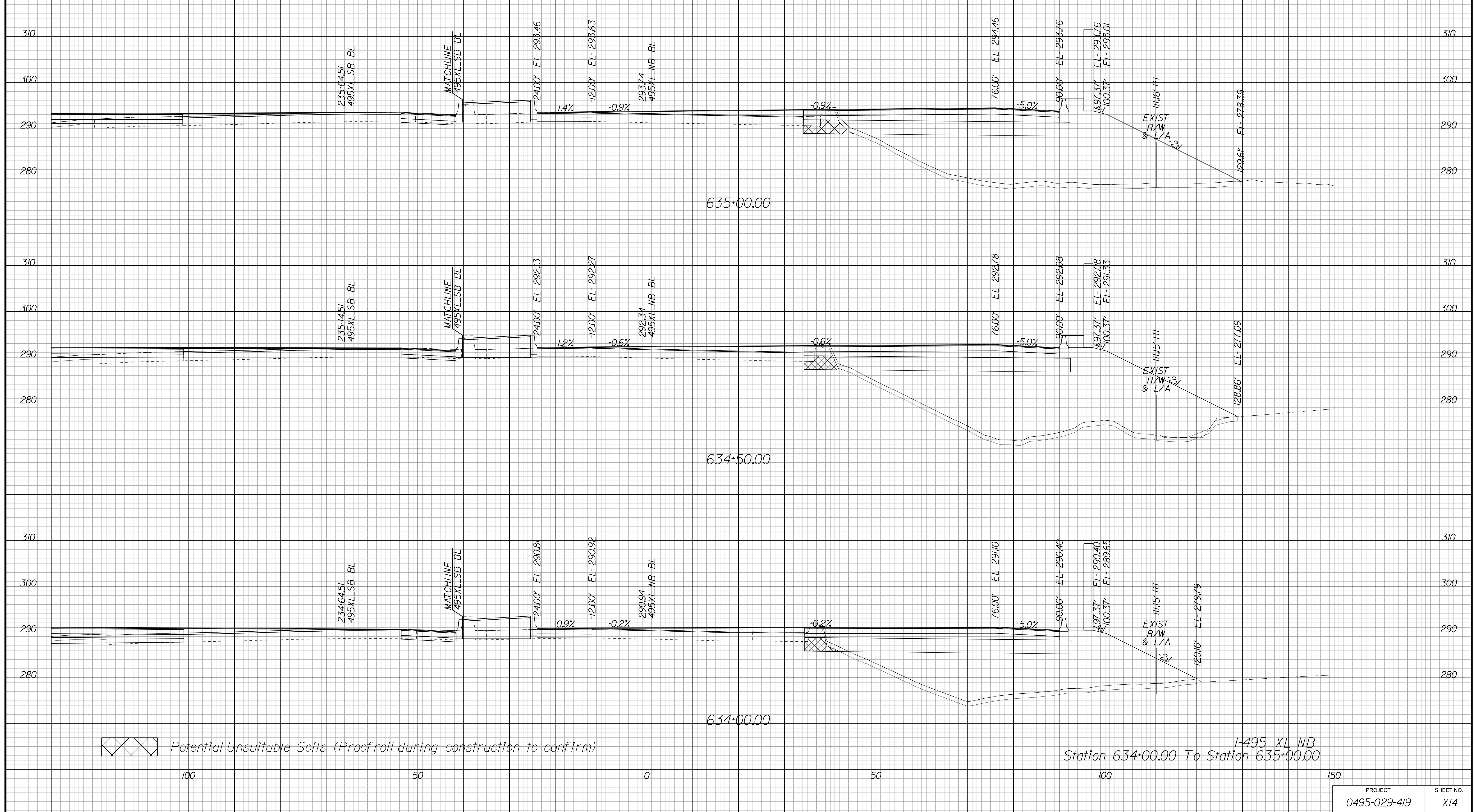
# CROSS SECTIONS

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	X14 AREA 3

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 634+00.00 To Station 635+00.00

APPROVED FOR CONSTRUCTION



PROJECT MANAGER VDOT - Bimbal Stab PE (703) 259-2362  
SURVEYED BY DATE BDA - Nicholas Kougoulis LS (703) 334-0837, 12/1/2021  
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

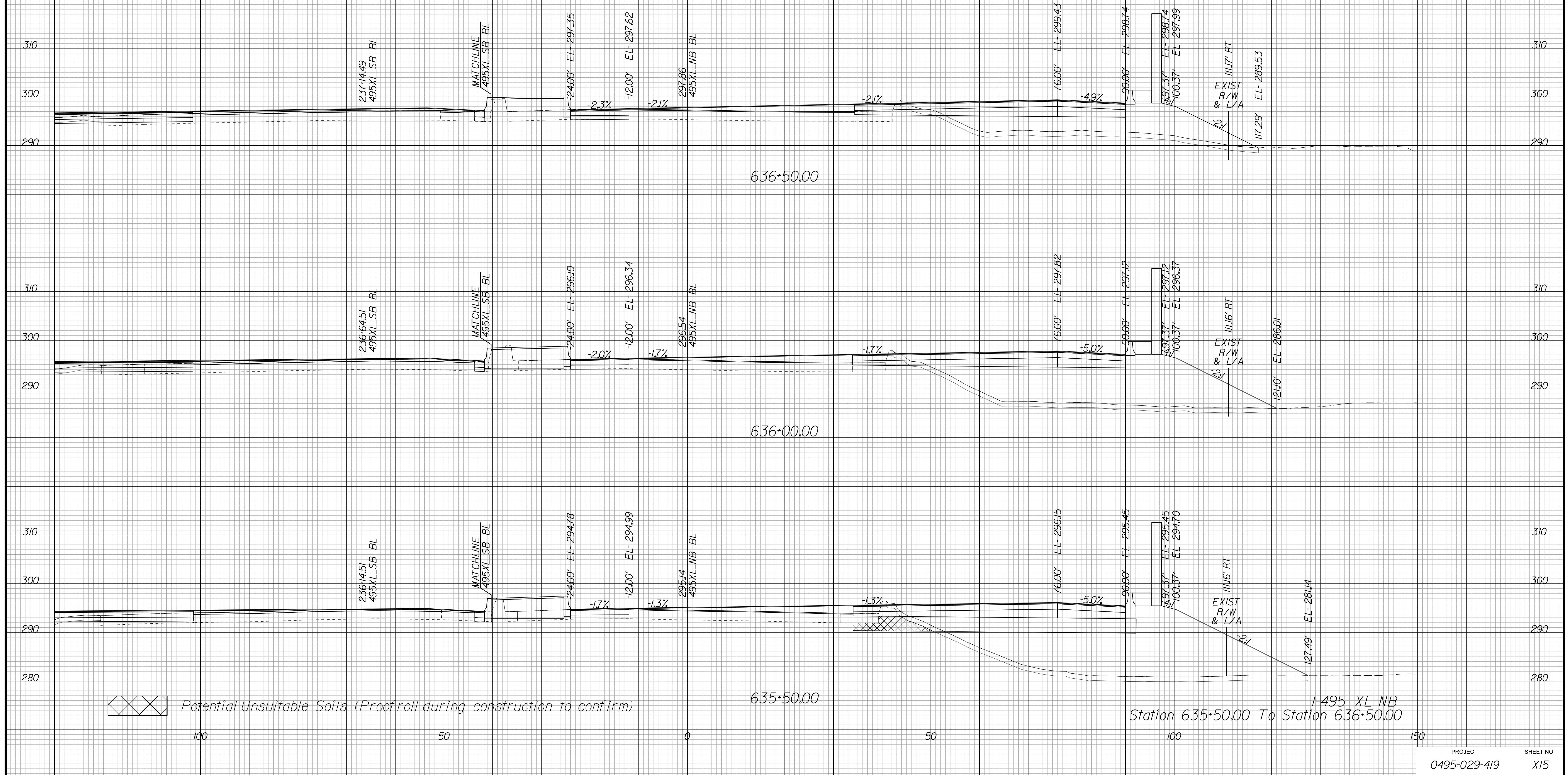
# CROSS SECTIONS

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	X15 AREA 3

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

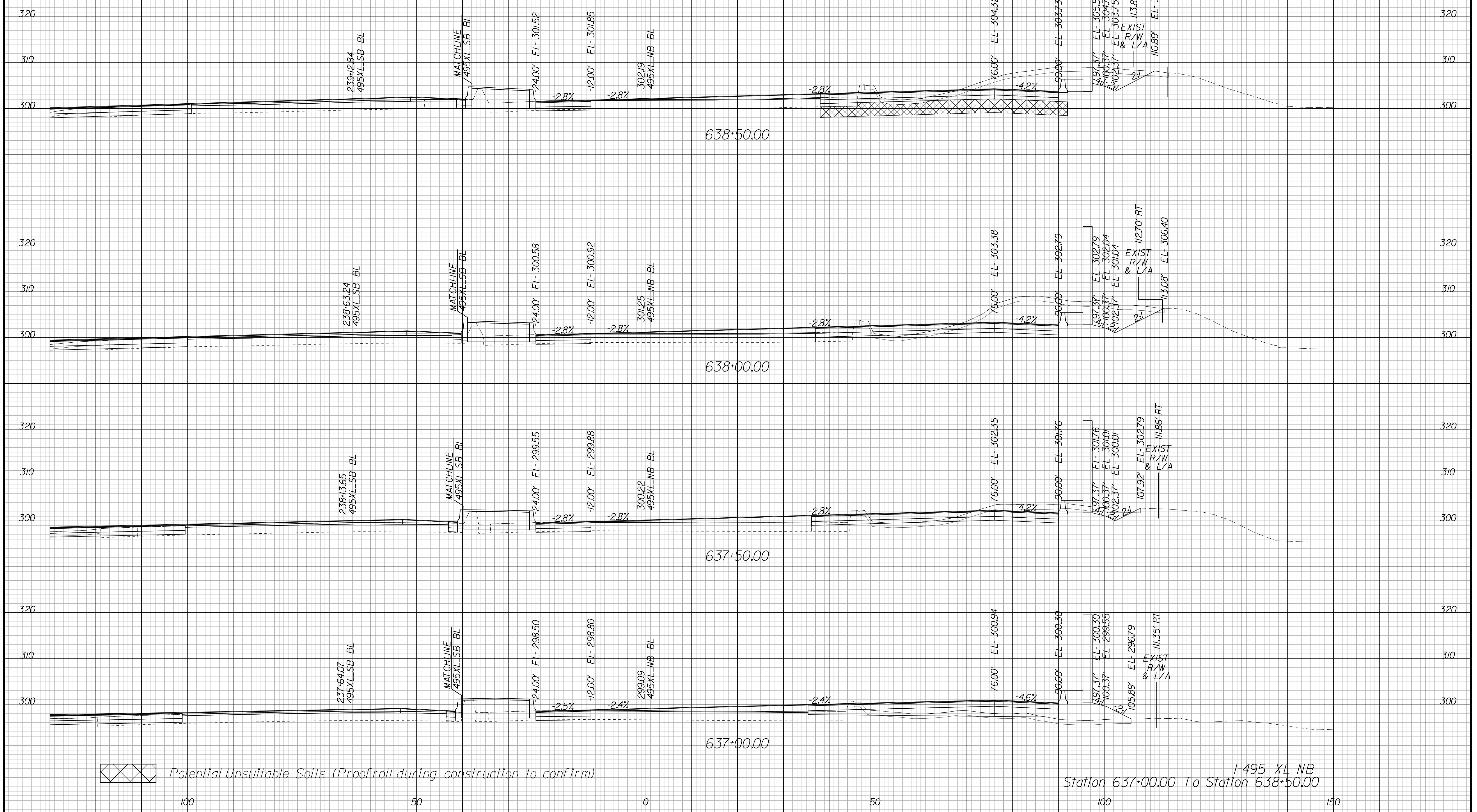
# CROSS SECTIONS

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	X16 AREA 3

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 637+00.00 To Station 638+50.00

PROJECT	SHEET NO.
0495-029-419	X16

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

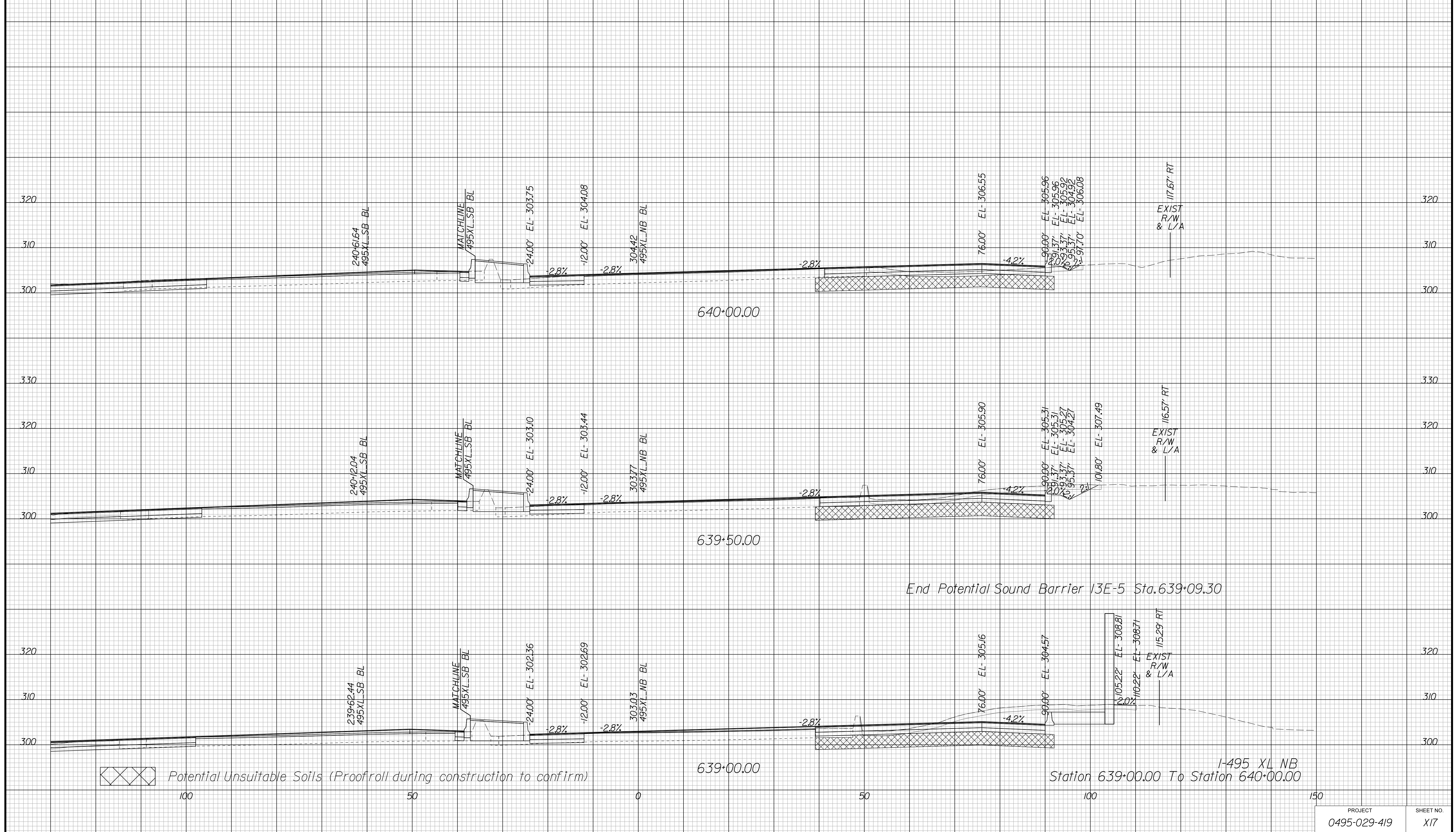
# CROSS SECTIONS

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	X17 AREA 3

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

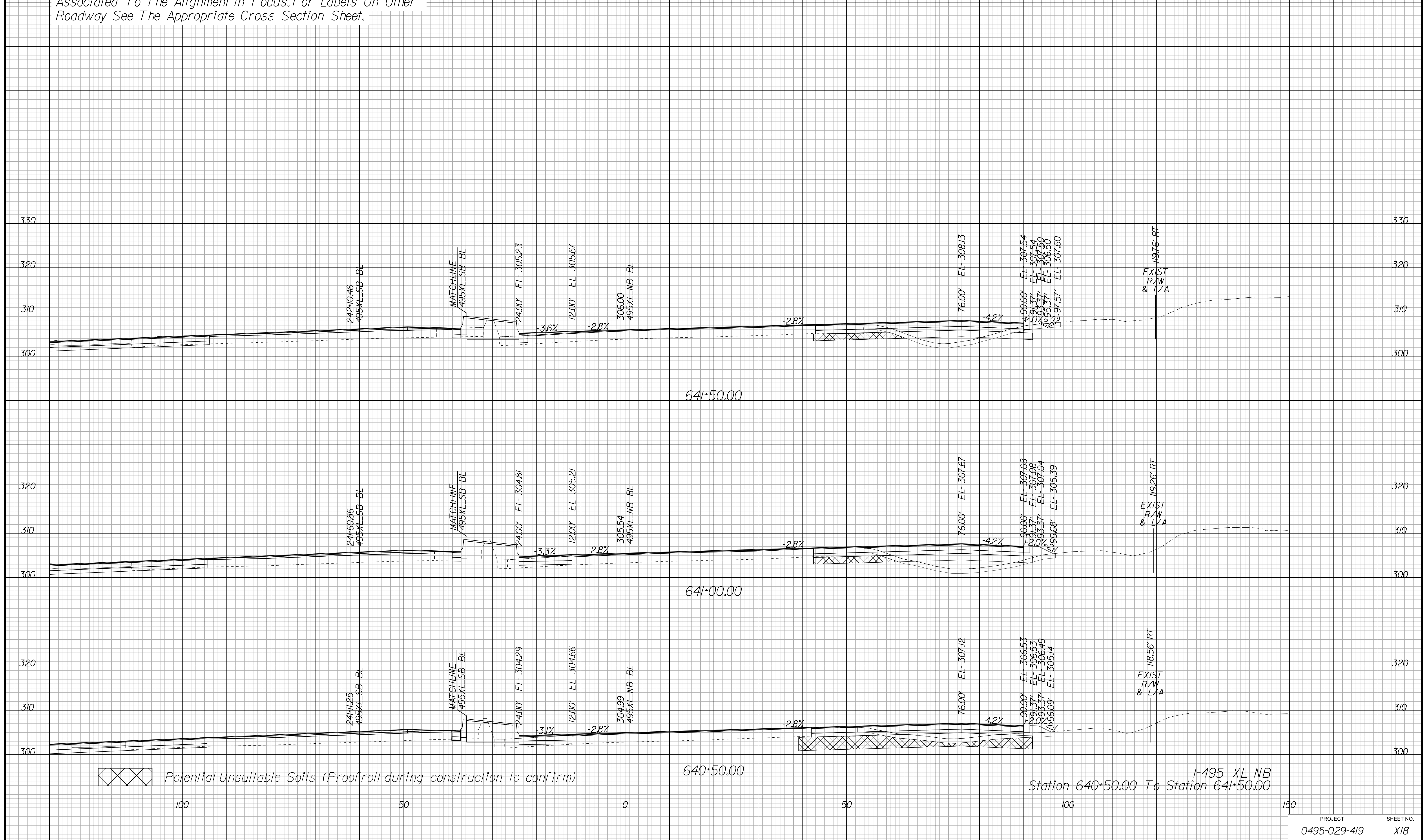
# CROSS SECTIONS

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	X18 AREA 3

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 Kougoullis 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

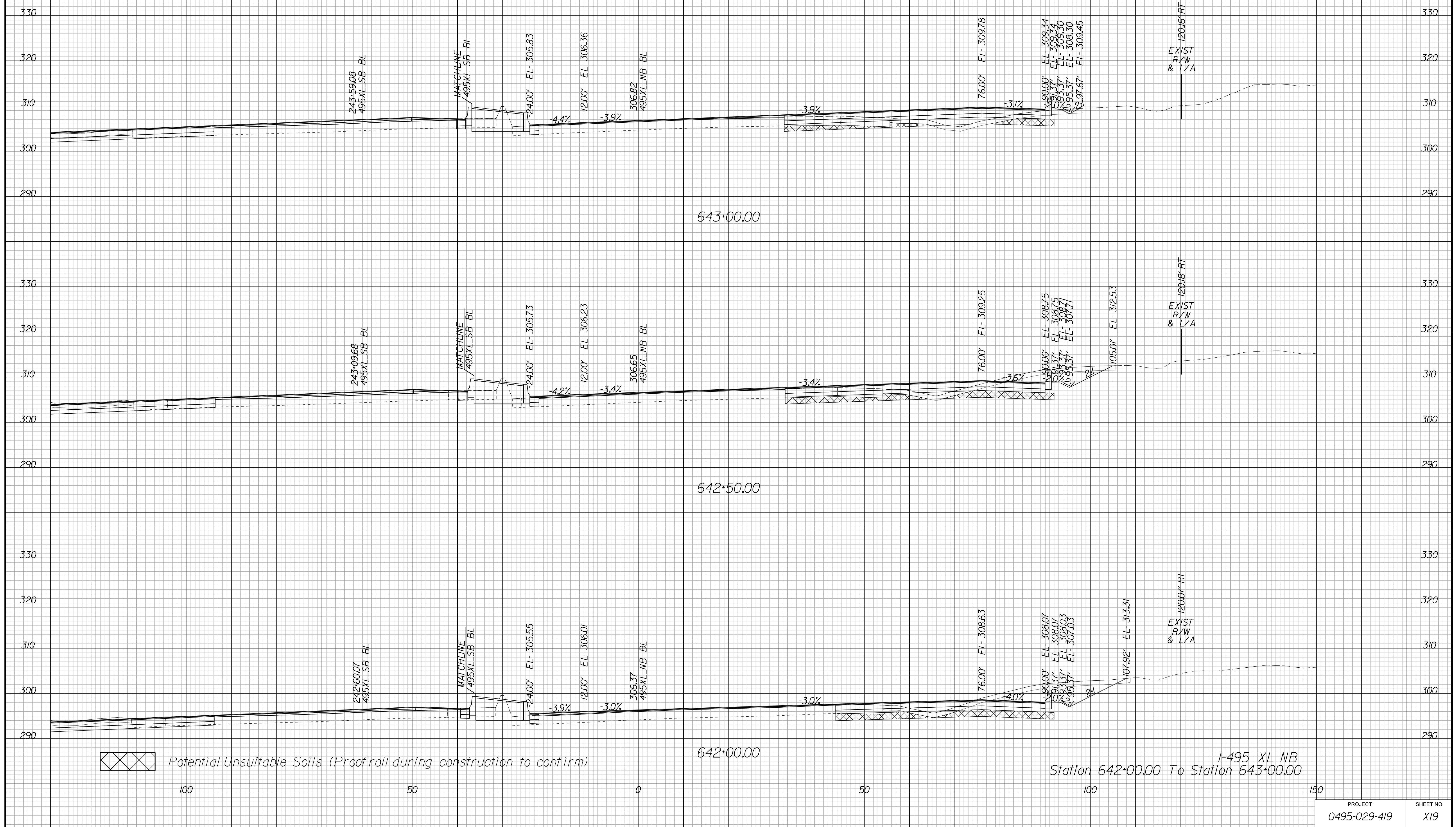
# CROSS SECTIONS

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	X19 AREA 3

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

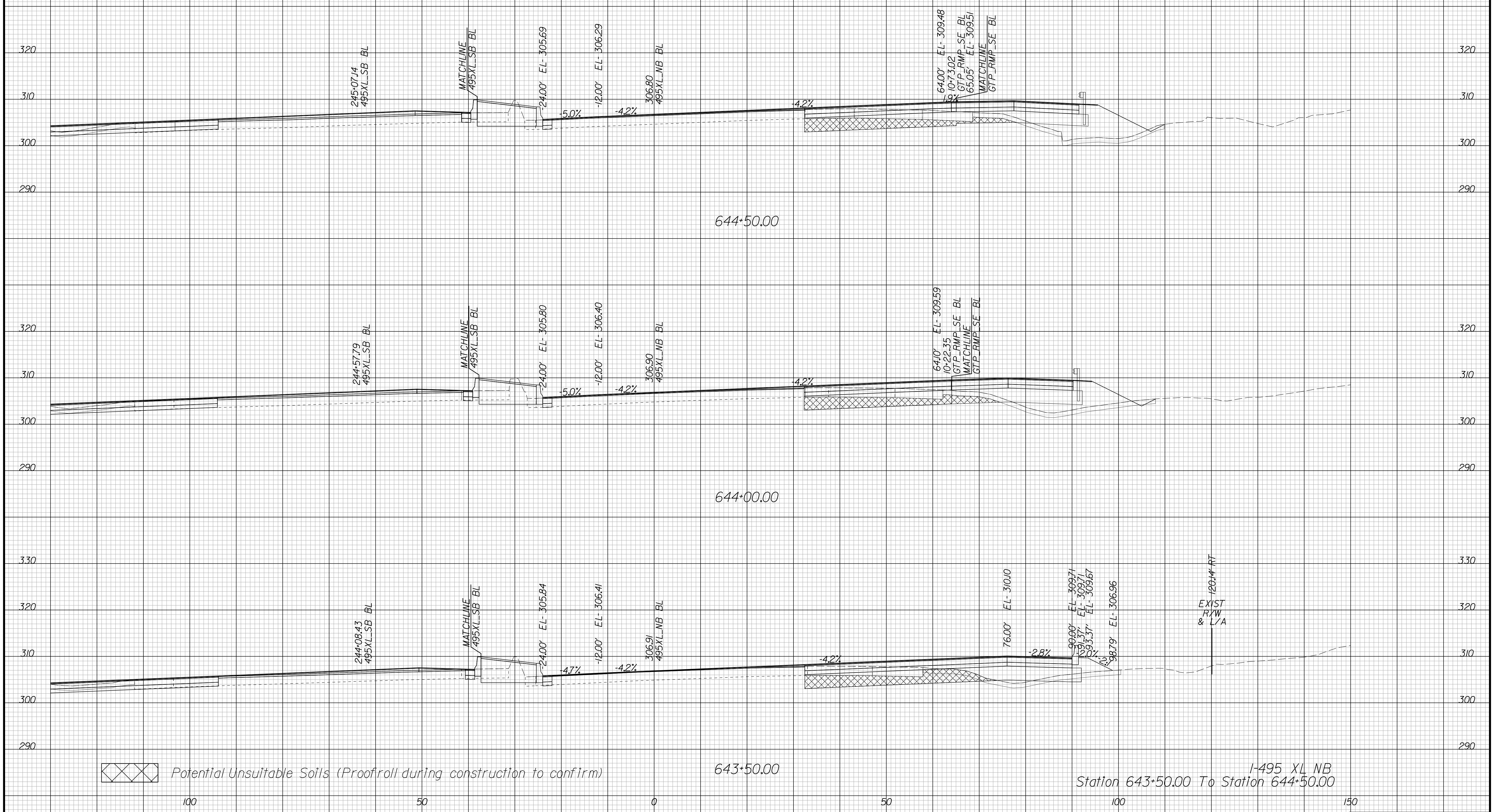
# CROSS SECTIONS

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	X20 AREA 3

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

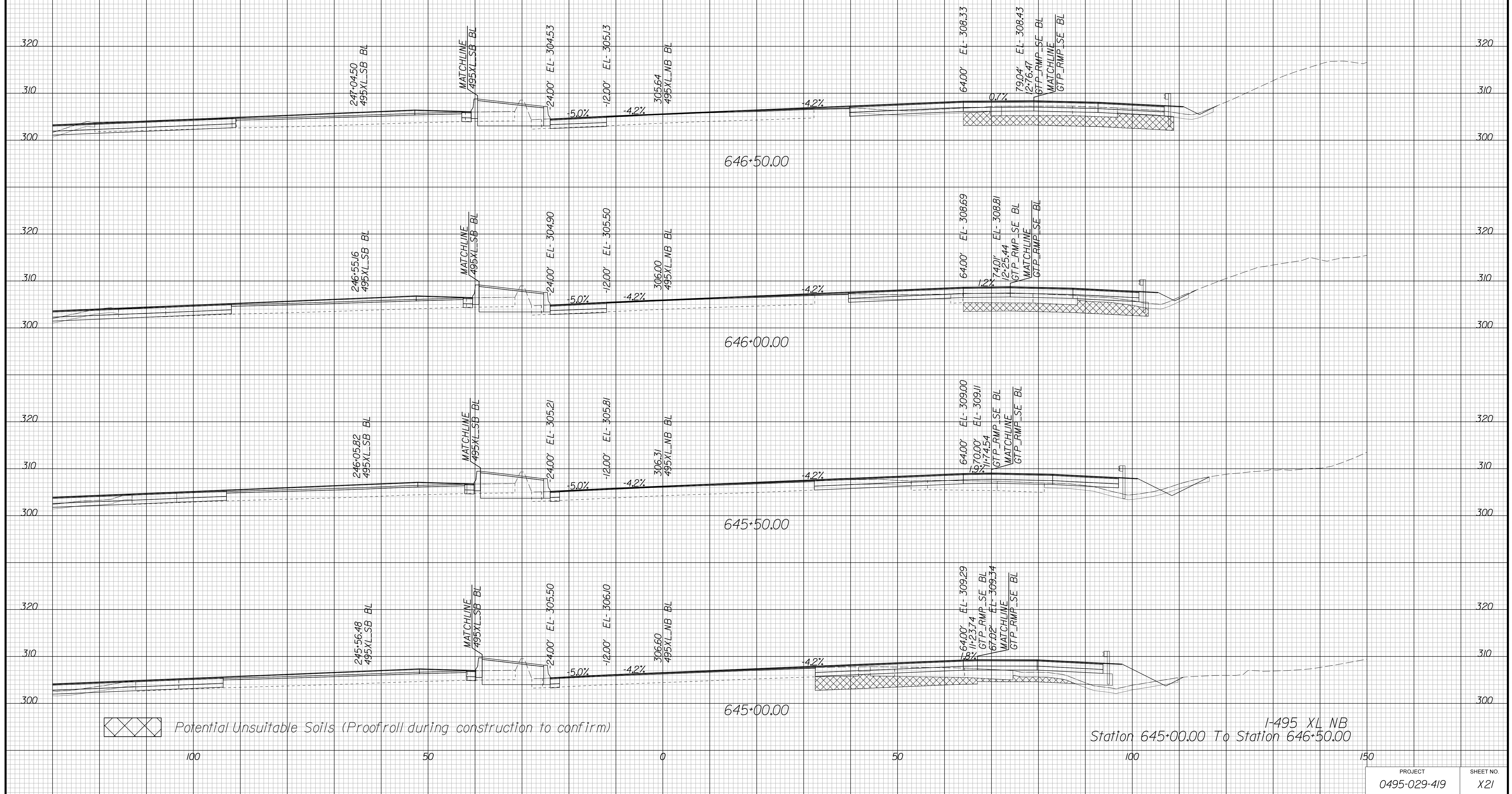
# CROSS SECTIONS

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	X21 AREA 3

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

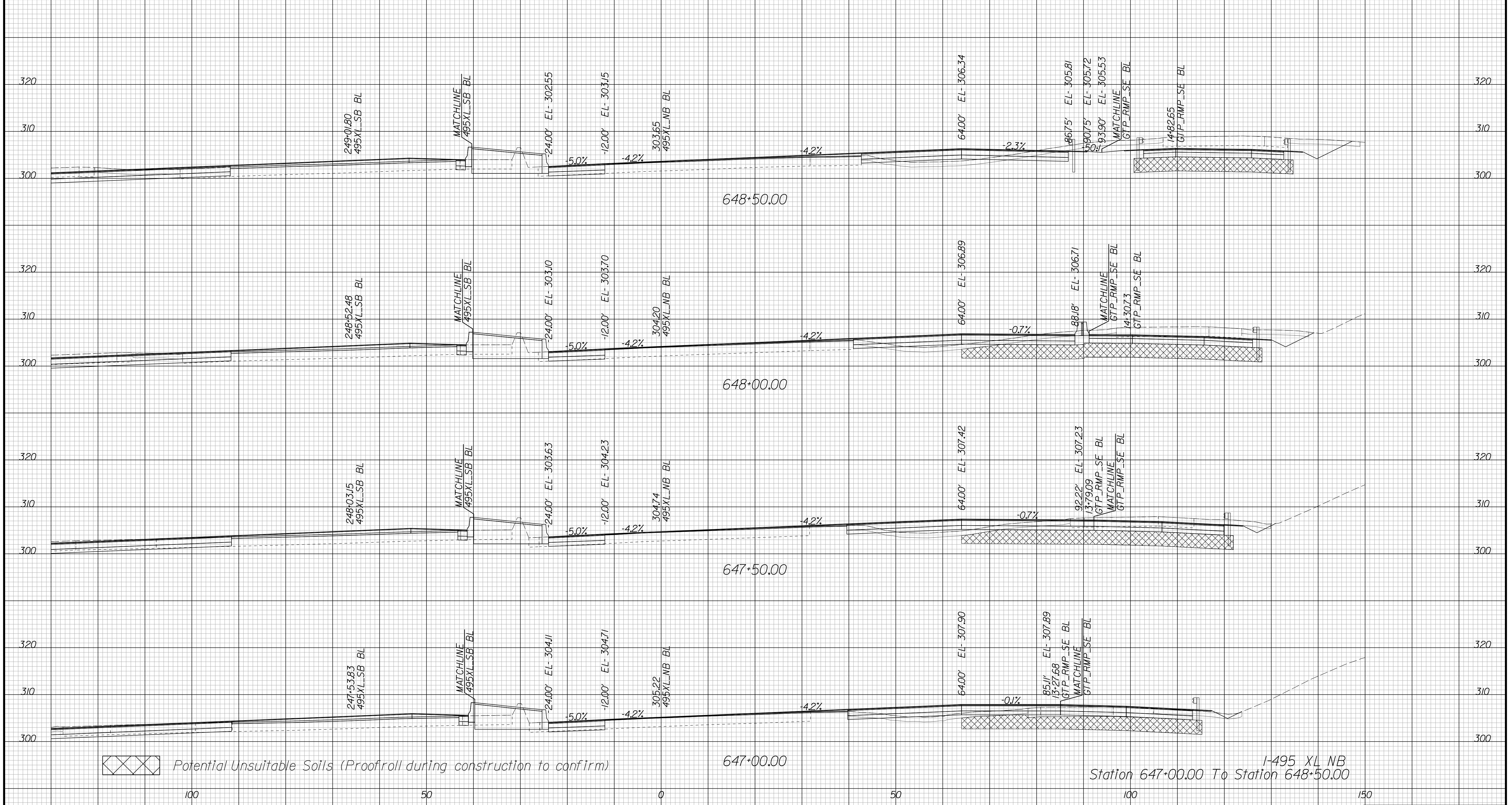
# CROSS SECTIONS

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	X22 AREA 3

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 647+00.00 To Station 648+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

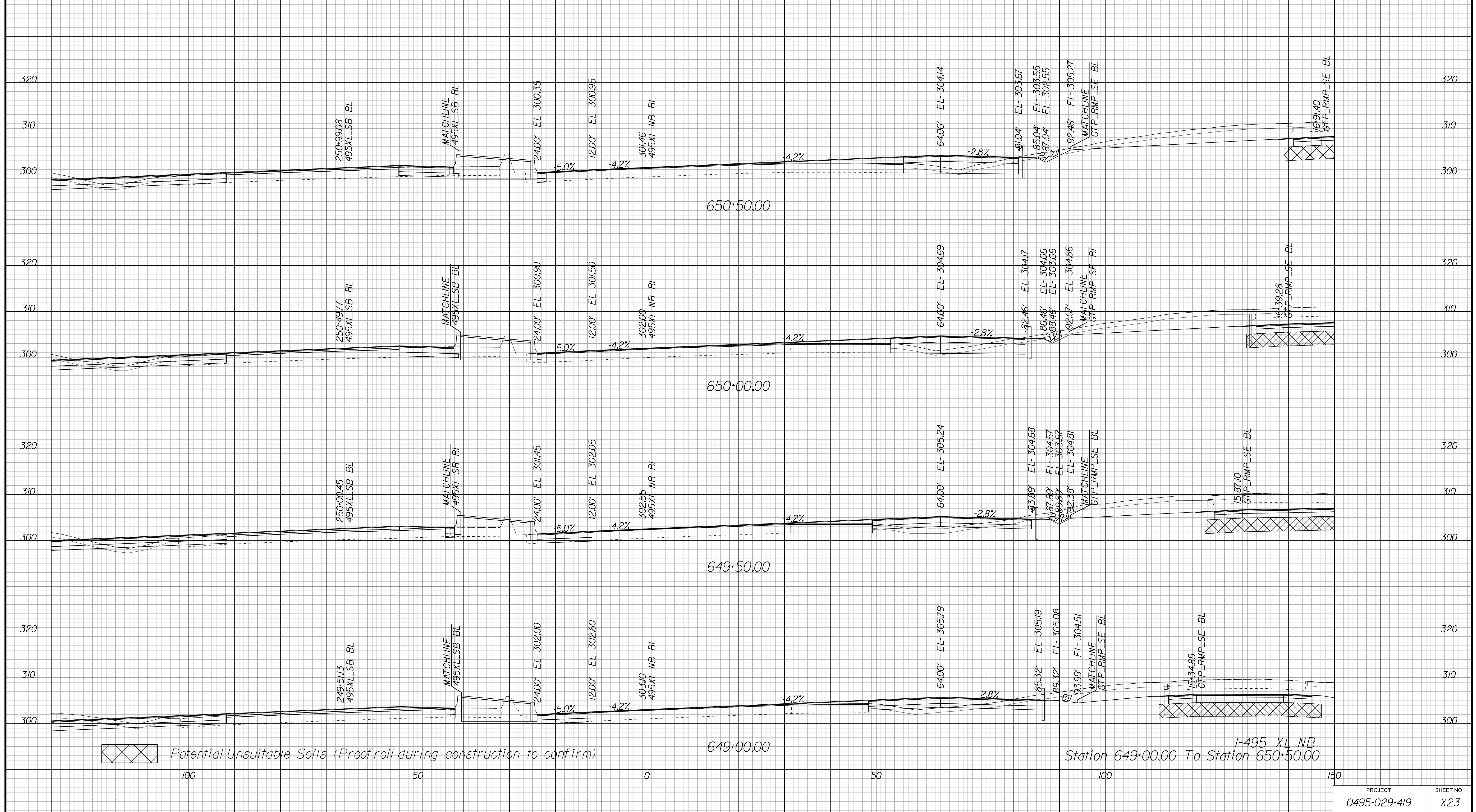
# CROSS SECTIONS

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	X23 AREA 3

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, Dawberly - Ron Jakominich PE (703) 849-0651  
SUBSURFACE UTILITY BY DATE Accurmark - Michael Taylor LS (703) 635-3060, 12/2021

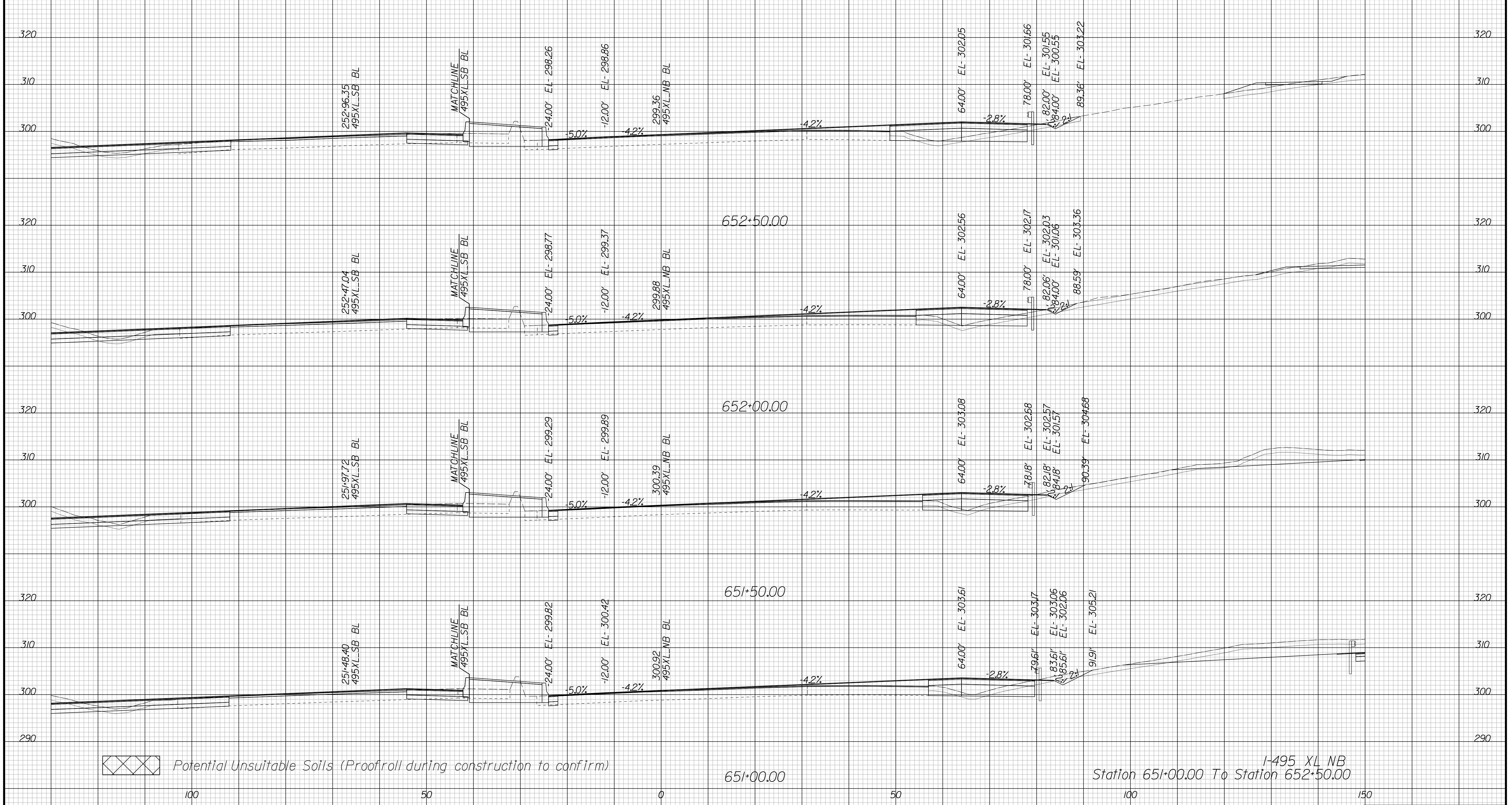
# CROSS SECTIONS

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	X24 AREA 3

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	X24

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, Dexberry - Ron Jakominich PE (703) 849-0651  
SUBSURFACE UTILITY BY DATE Accurmark - Michael Taylor LS (703) 635-3060, 12/2021

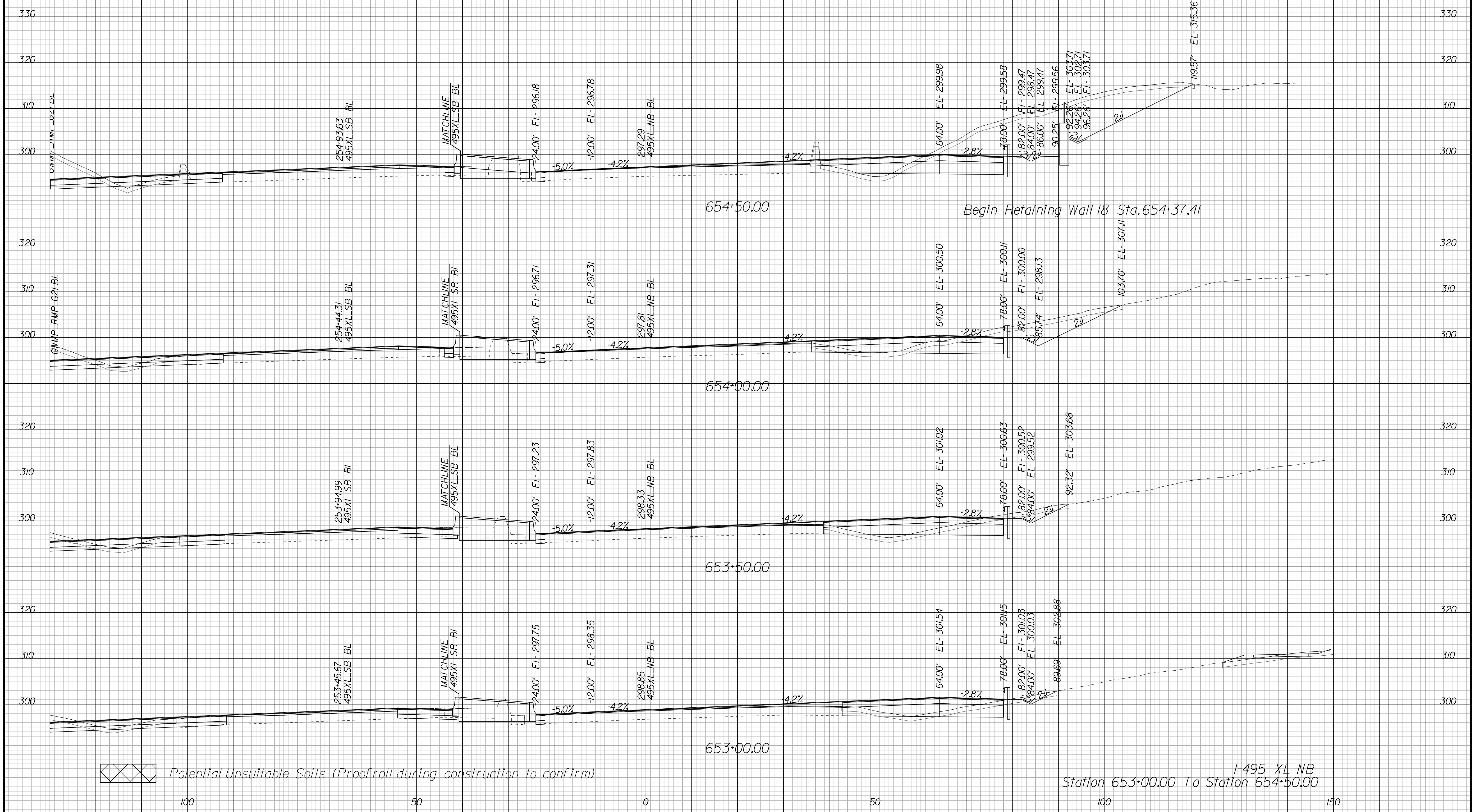
# CROSS SECTIONS

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 3

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, Dexberry - Ron Jakominich PE (703) 849-0651  
SUBSURFACE UTILITY BY, DATE Accurmark - Michael Taylor LS (703) 635-3060, 12/2021

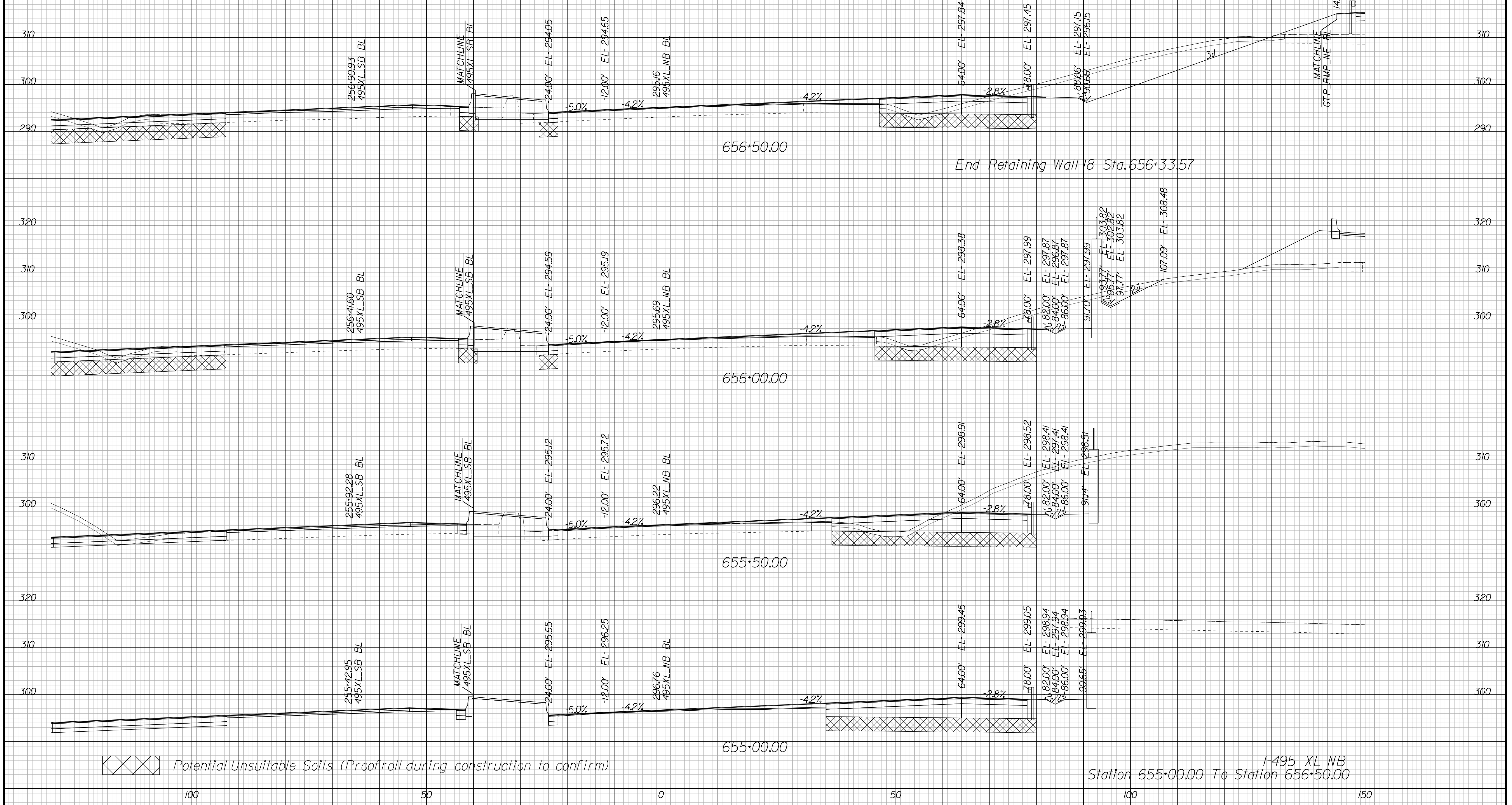
# CROSS SECTIONS

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	X26 AREA 3

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 655+00.00 To Station 656+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 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

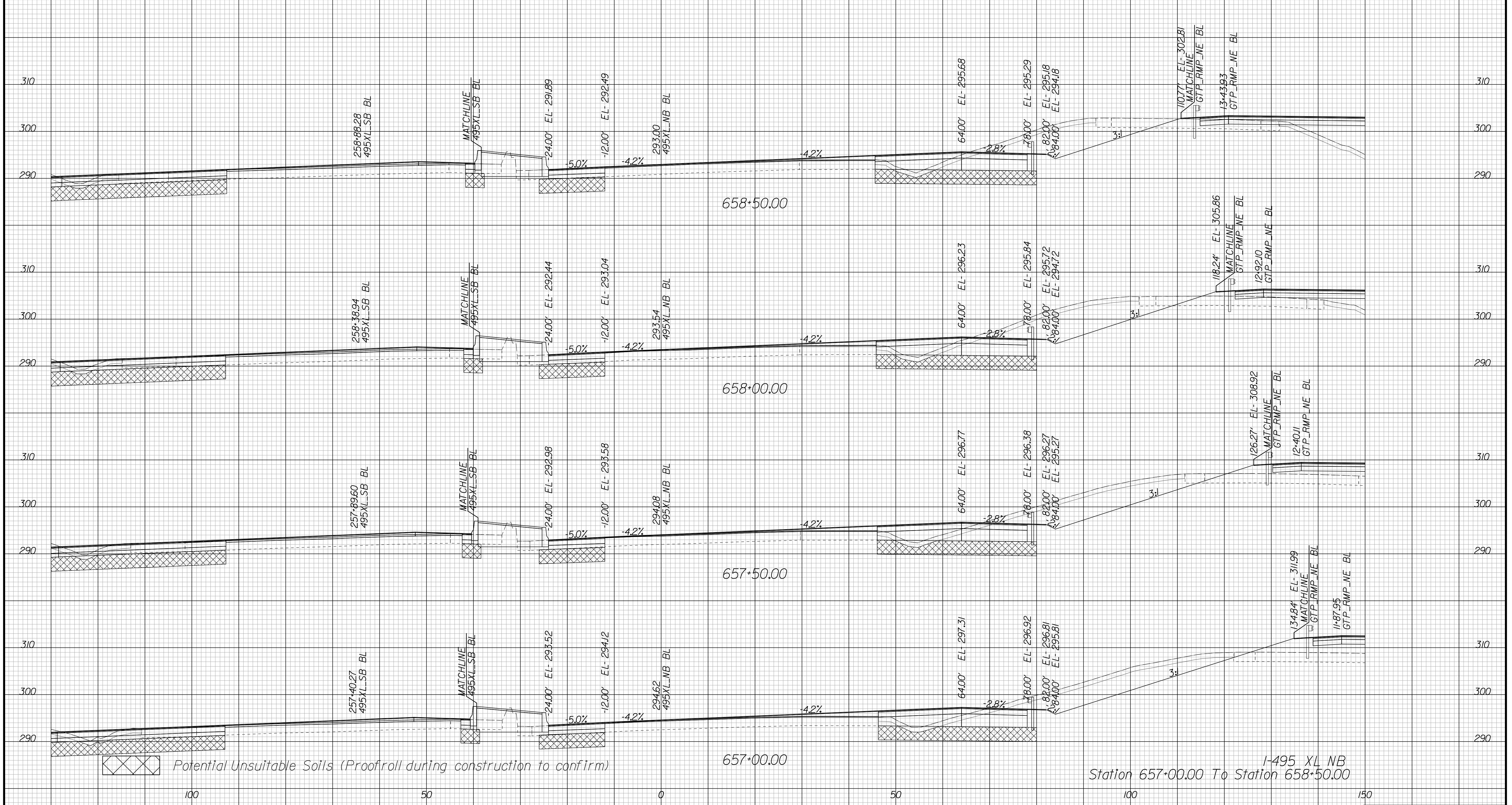
# CROSS SECTIONS

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	X27 AREA 3

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

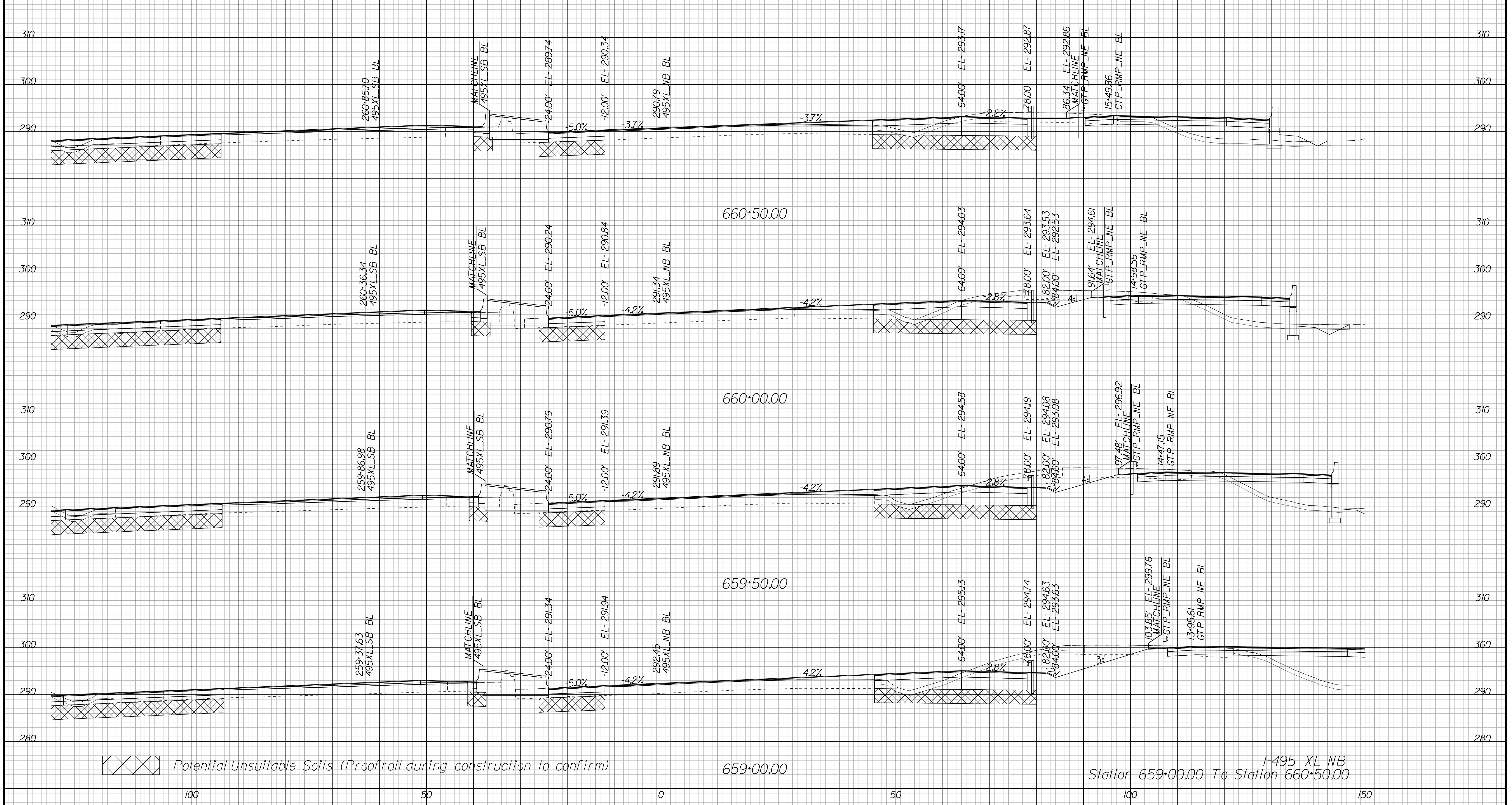
# CROSS SECTIONS

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	X28 AREA 3

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 659+00.00 To Station 660+50.00

PROJECT	SHEET NO.
0495-029-419	X28

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

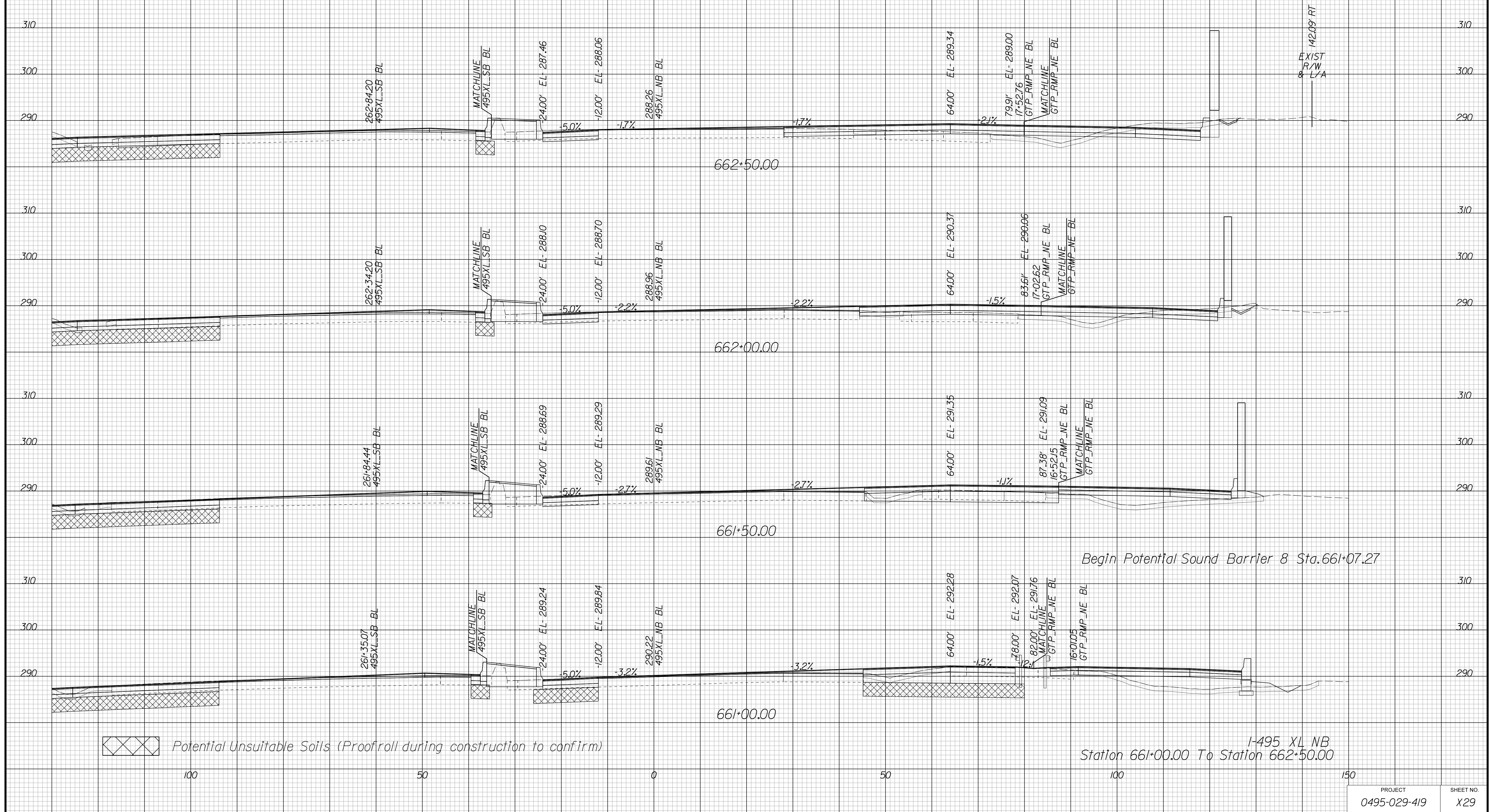
# CROSS SECTIONS

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	X29 AREA 3

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

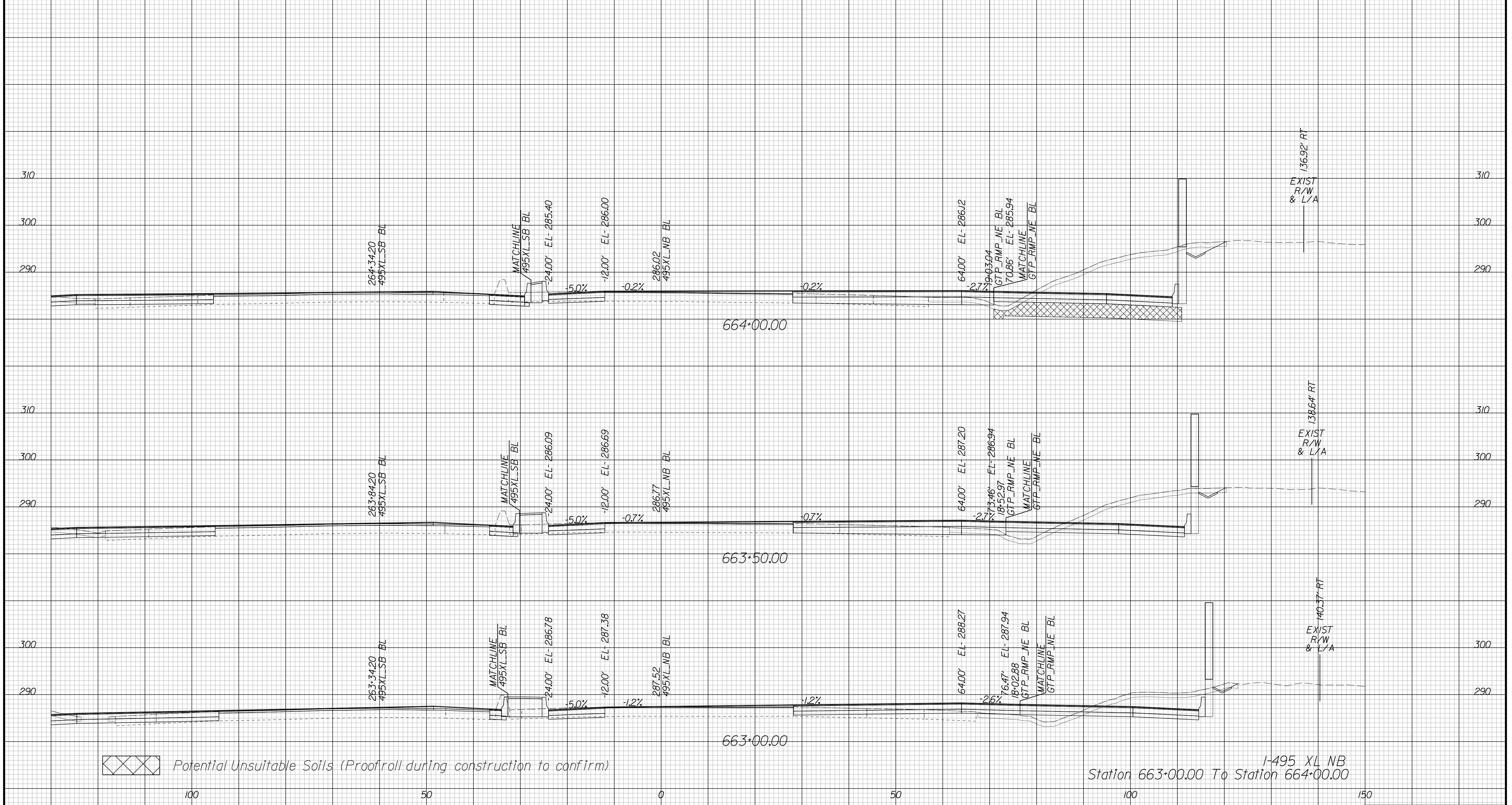
# CROSS SECTIONS

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	X30 AREA 3

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 663+00.00 To Station 664+00.00

PROJECT	SHEET NO.
0495-029-419	X30

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, Dawbercy - Ron Jakominich PE (703) 849-0651  
SUBSURFACE UTILITY BY DATE Accurmark - Michael Taylor LS (703) 635-3060, 12/2021

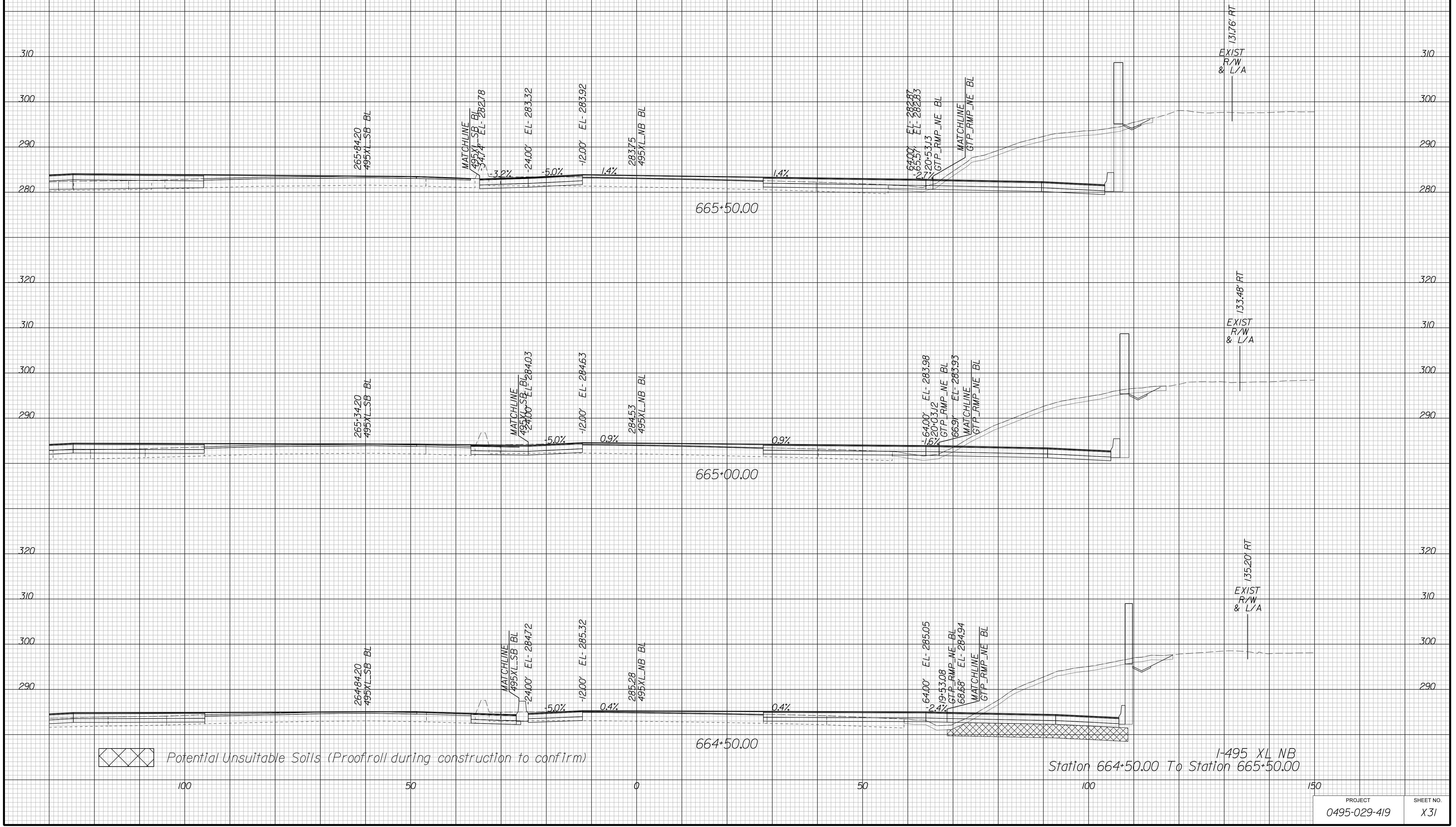
# CROSS SECTIONS

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	X31 AREA 3

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, Dawberly - Ron Jakominich PE (703) 849-0651  
SUBSURFACE UTILITY BY, DATE Accurmark - Michael Taylor LS (703) 635-3060, 12/2021

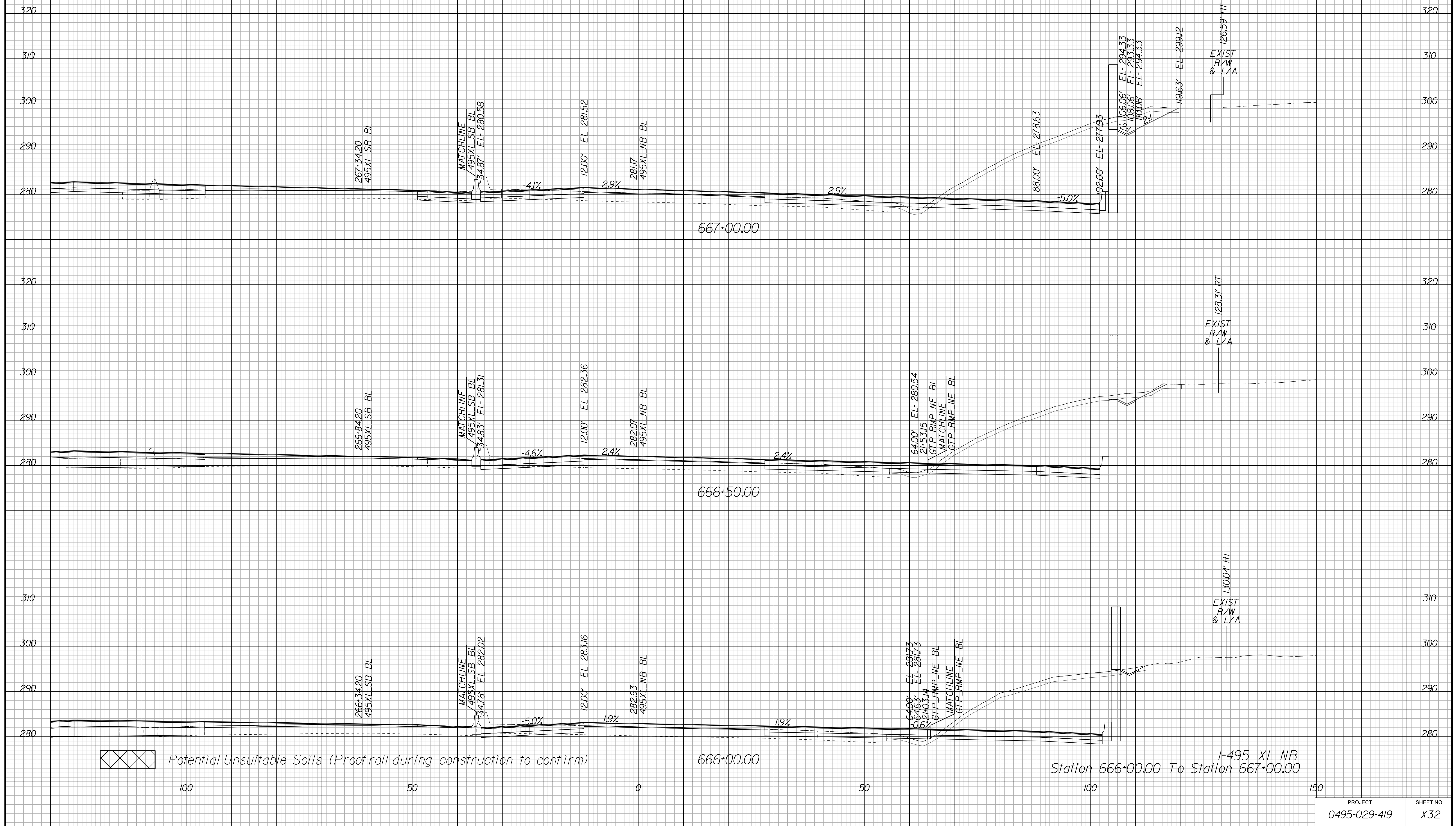
# CROSS SECTIONS

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	X32 AREA 3

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, Dexberry - Ron Jakominich PE (703) 849-0651  
SUBSURFACE UTILITY BY DATE Accurmark - Michael Taylor LS (703) 635-3060, 12/2021

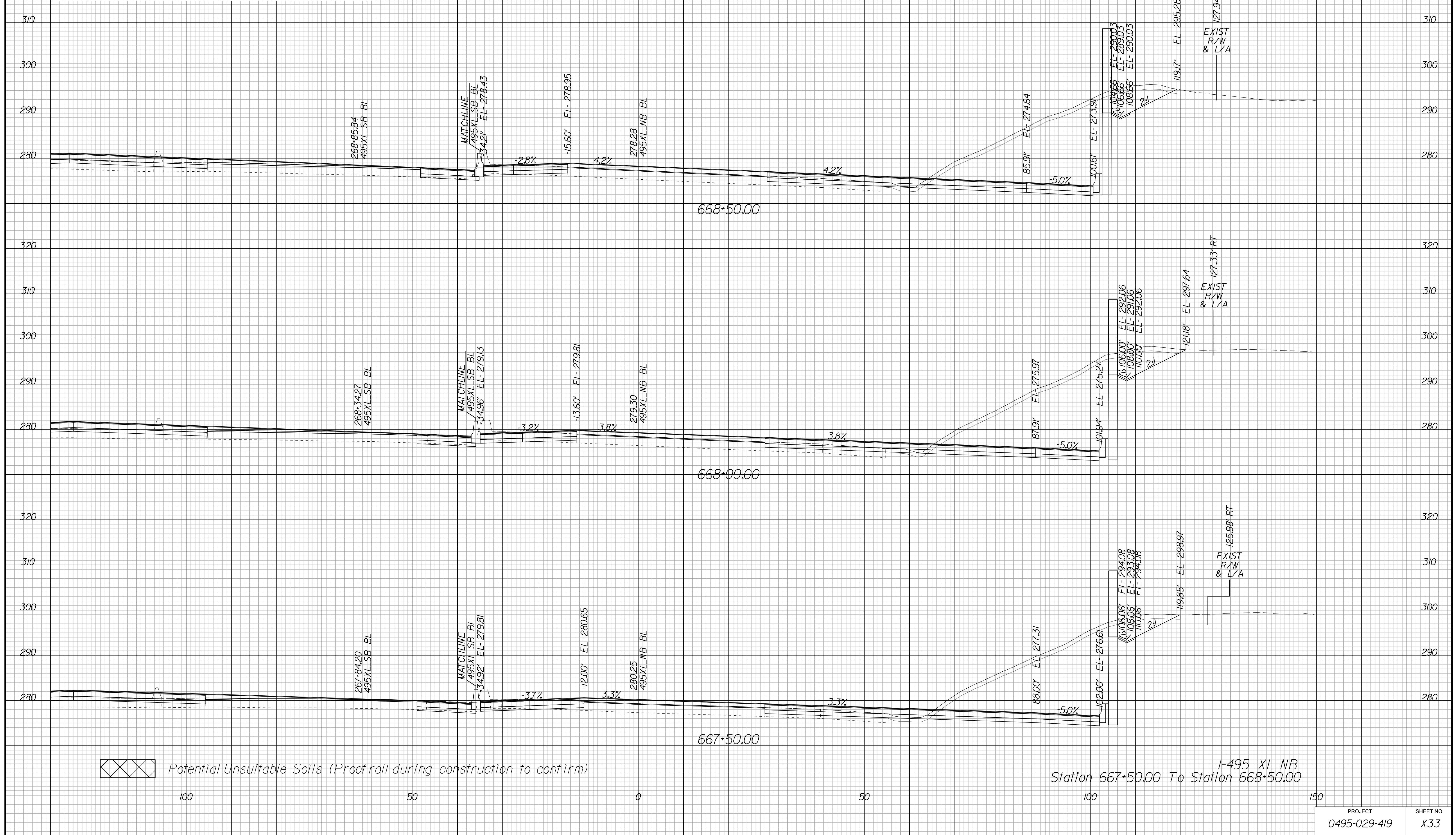
# CROSS SECTIONS

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	PROJECT	SHEET NO.
	VA.	495	0495-029-419	X33 AREA 3

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, Dawberly - Ron Jakominich PE (703) 849-0651  
SUBSURFACE UTILITY BY DATE Accumar - Michael Taylor LS (703) 635-3060, 12/2021

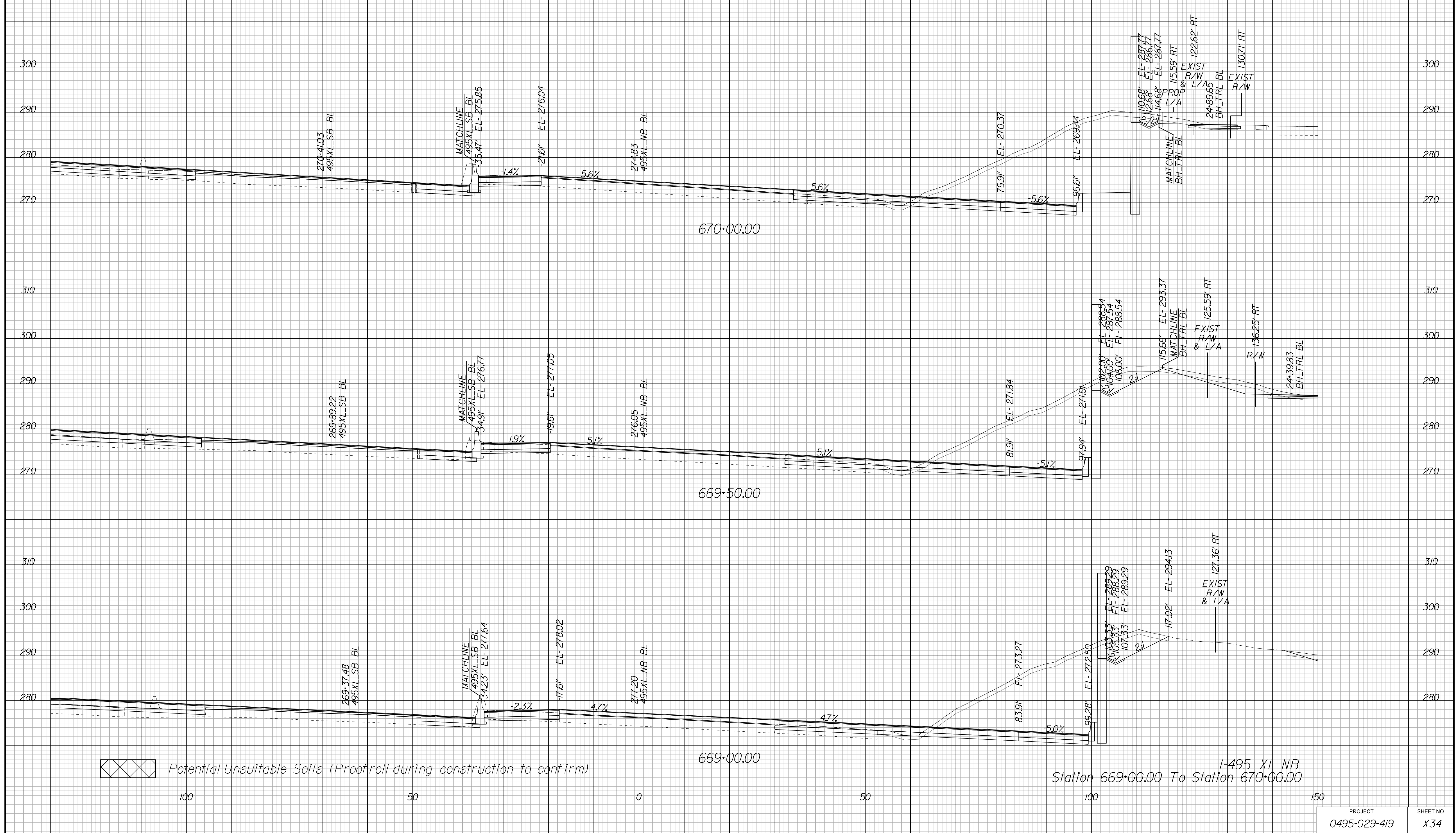
# CROSS SECTIONS

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	X34 AREA 3

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

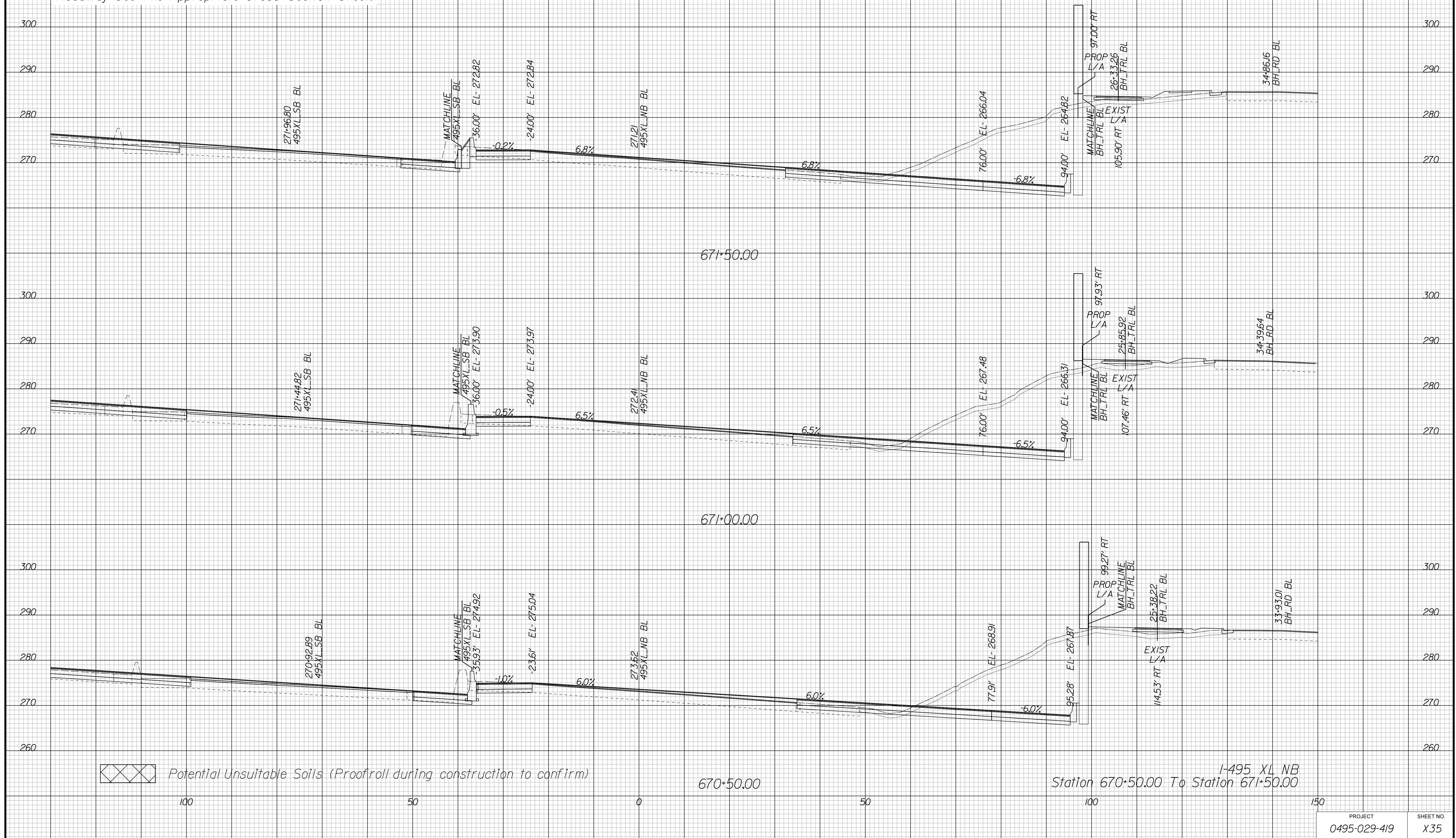
# CROSS SECTIONS

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	X35 AREA 3

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

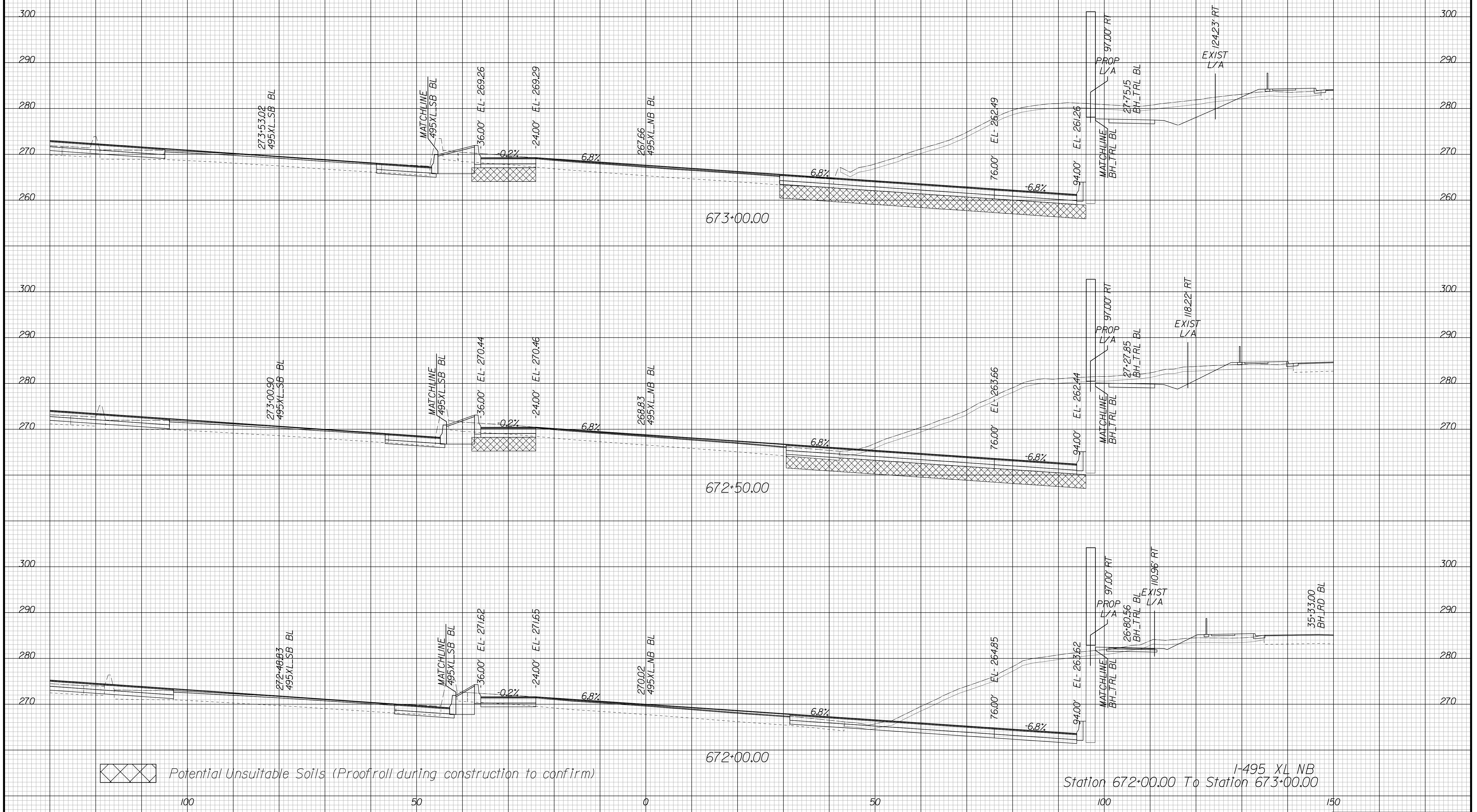
# CROSS SECTIONS

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	X36 AREA 3

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 672+00.00 To Station 673+00.00

PROJECT	SHEET NO.
0495-029-419	X36

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

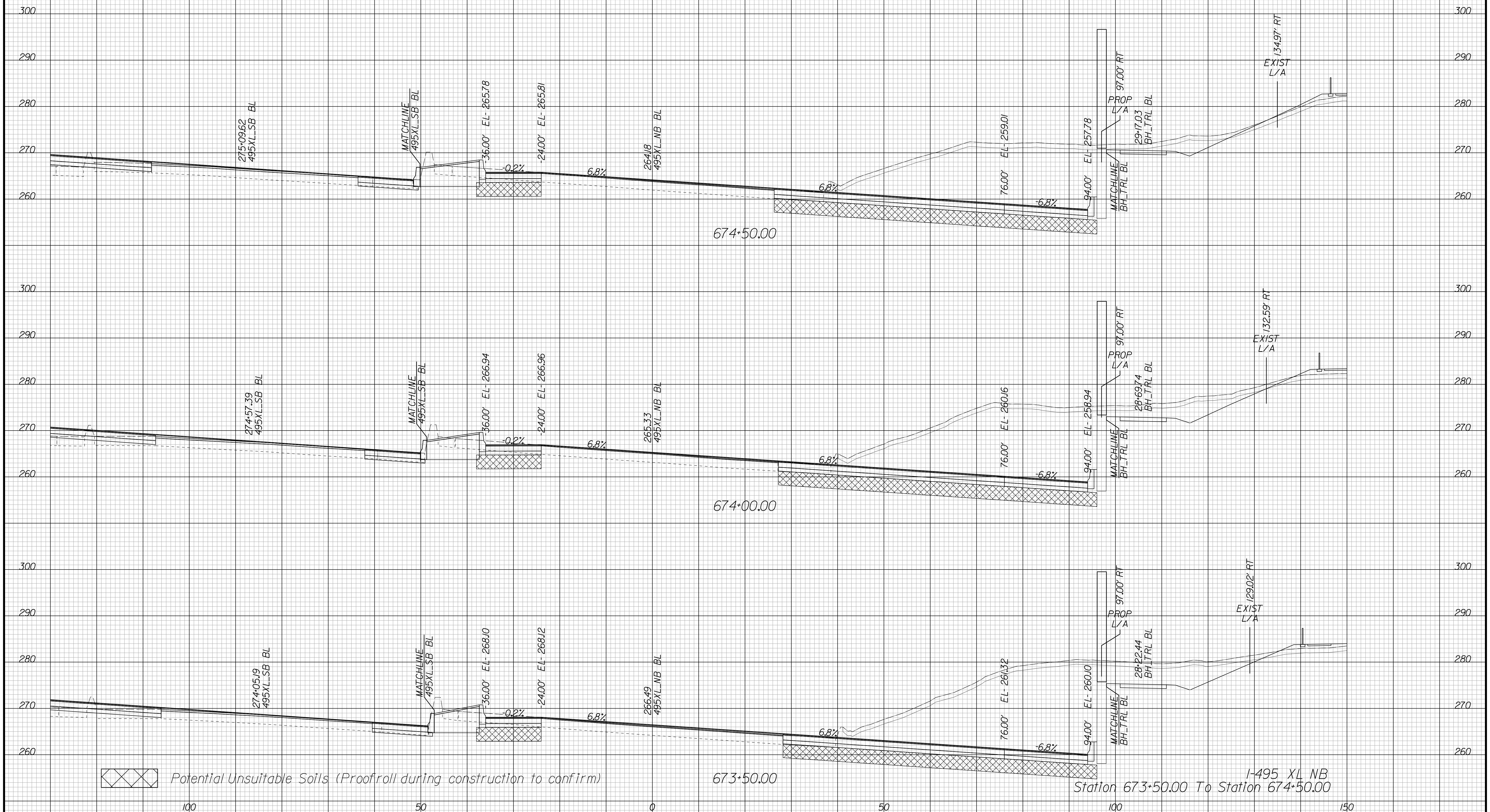
# CROSS SECTIONS

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	X37 AREA 3

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 673+50.00 To Station 674+50.00

PROJECT	SHEET NO.
0495-029-419	X37

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

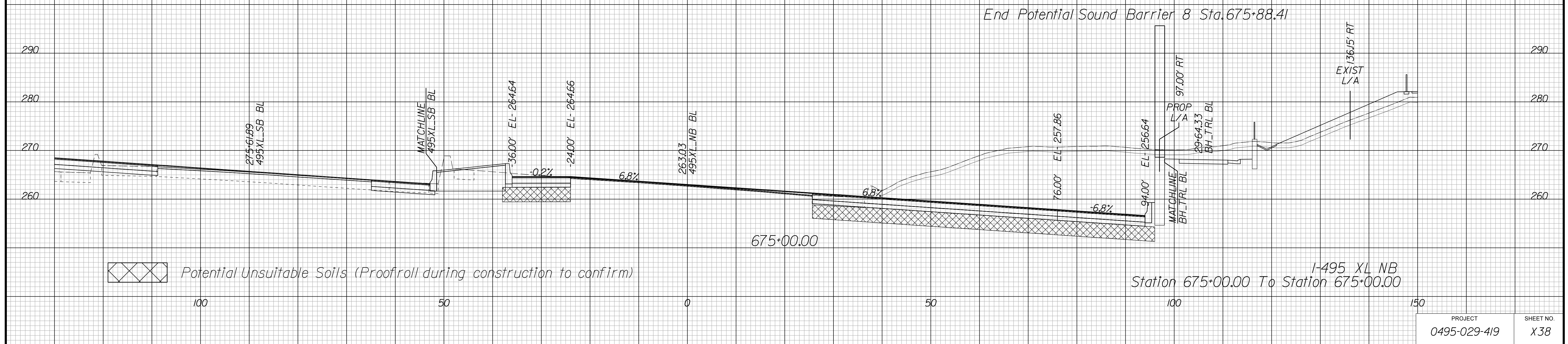
# CROSS SECTIONS

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	X38 AREA 3

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, 1/2019  
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

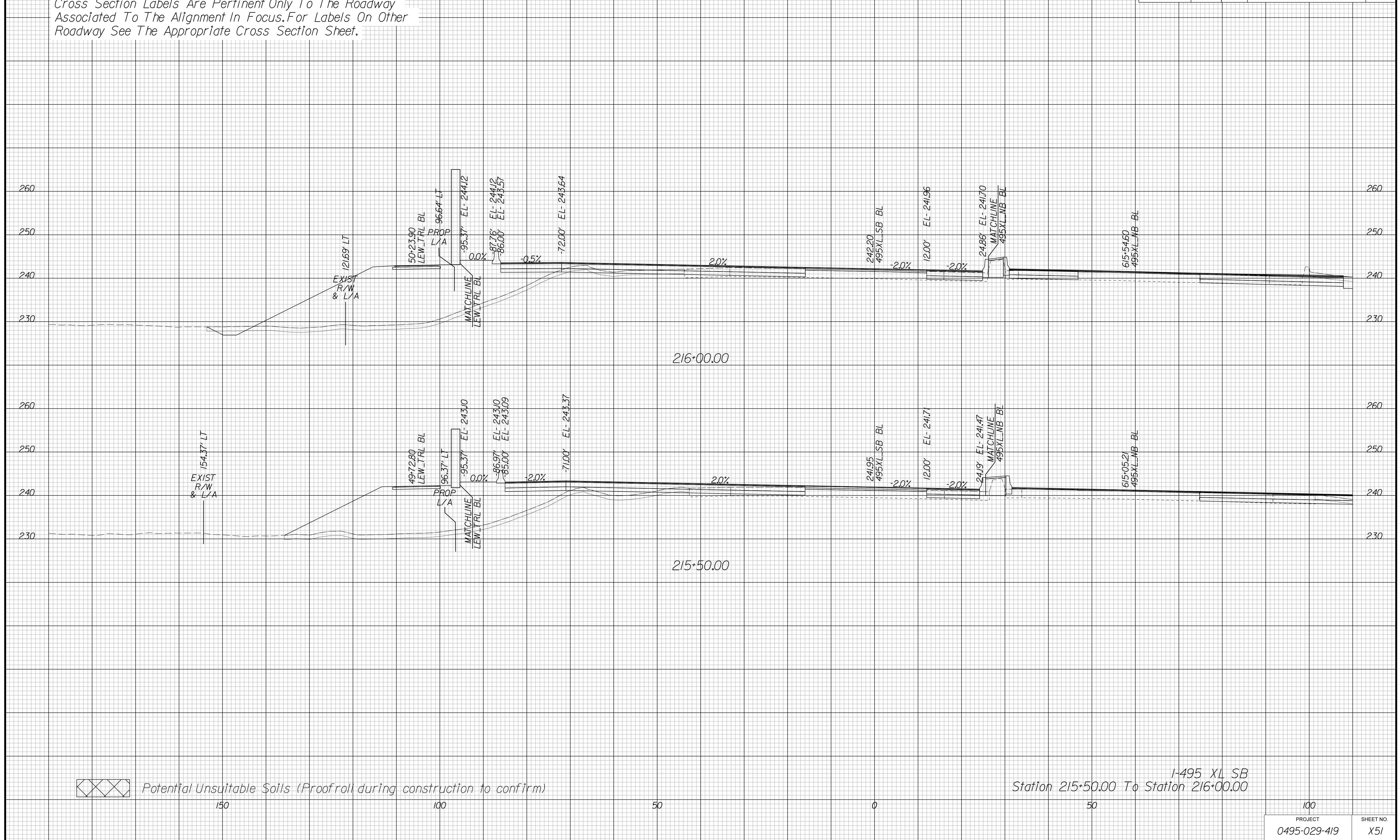
# CROSS SECTIONS

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	X51

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 215+50.00 To Station 216+00.00

PROJECT	SHEET NO.
0495-029-419	X51

APPROVED FOR CONSTRUCTION

PROJECT MANAGER VDOT - Bipal Stab PE (703) 259-2362  
SURVEYED BY DATE BDA - Nicholas Kougoulis LS (703) 334-0837, 1/2019  
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

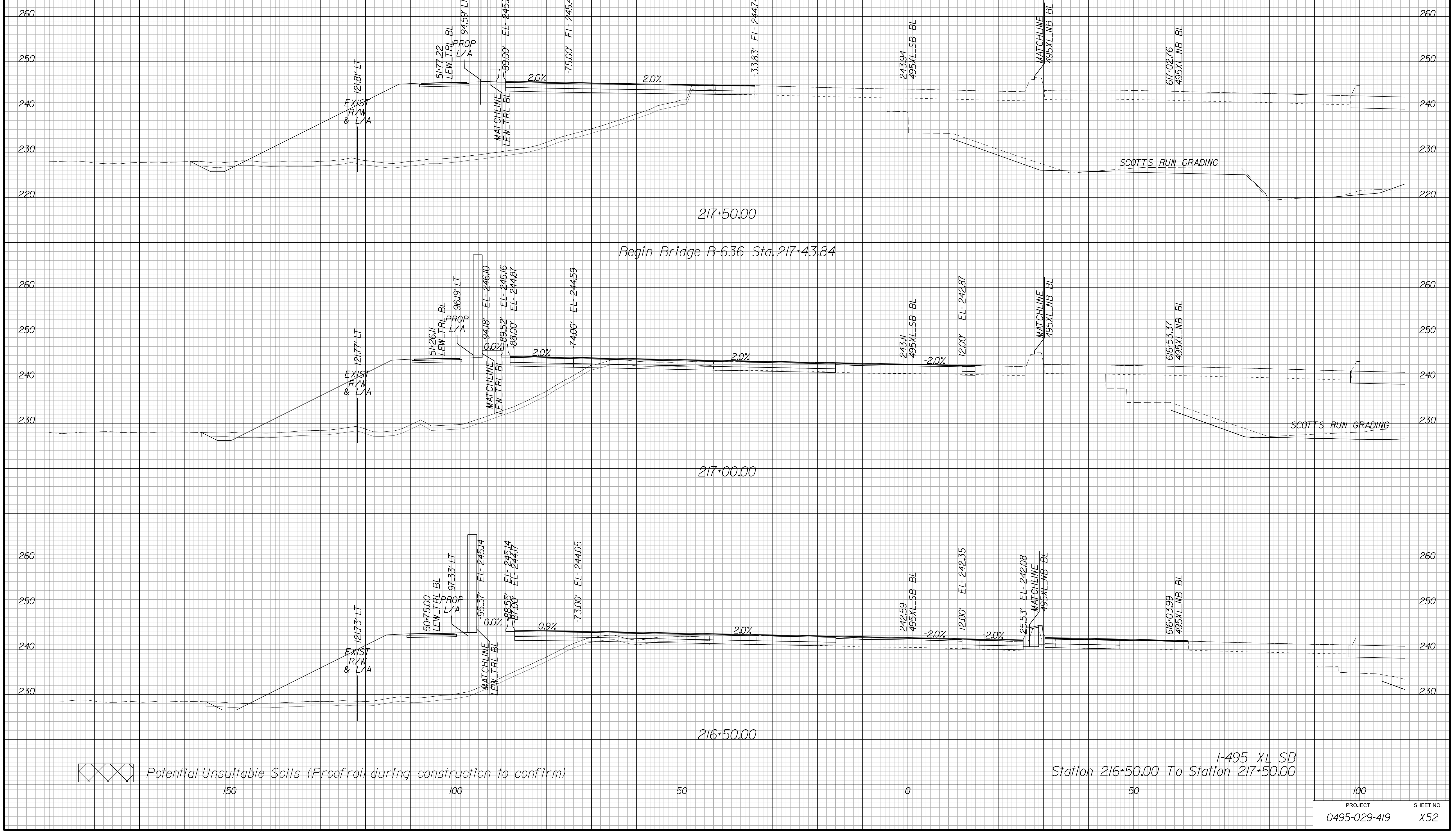
# CROSS SECTIONS

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	X52

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	X52



PROJECT MANAGER VDOT - Bimbal Stab PE (703) 259-2362  
SURVEYED BY DATE BDA - Nicholas Kougoulis LS (703) 334-0837, 1/2019  
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

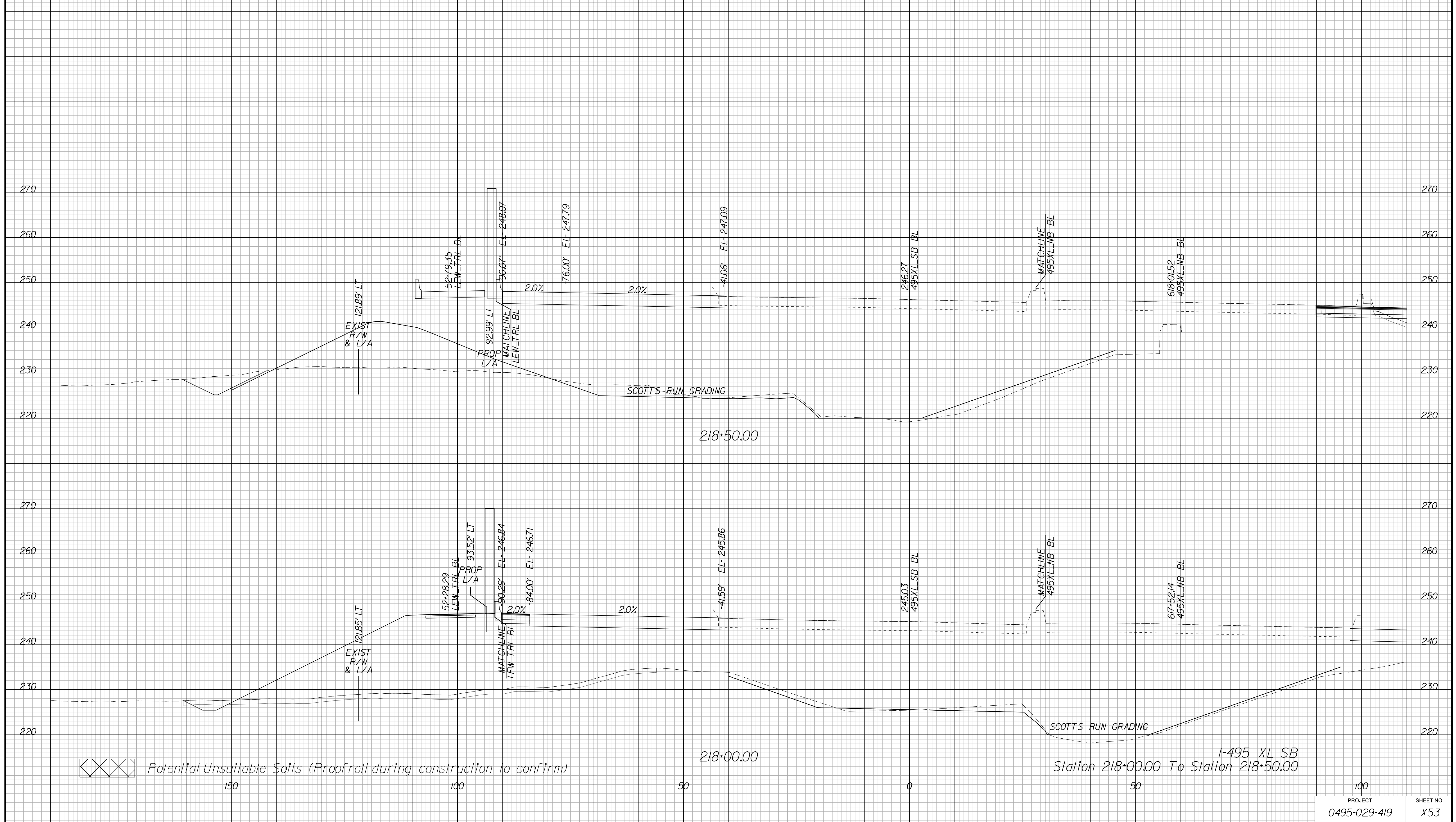
# CROSS SECTIONS

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	X53

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, 1/2019  
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

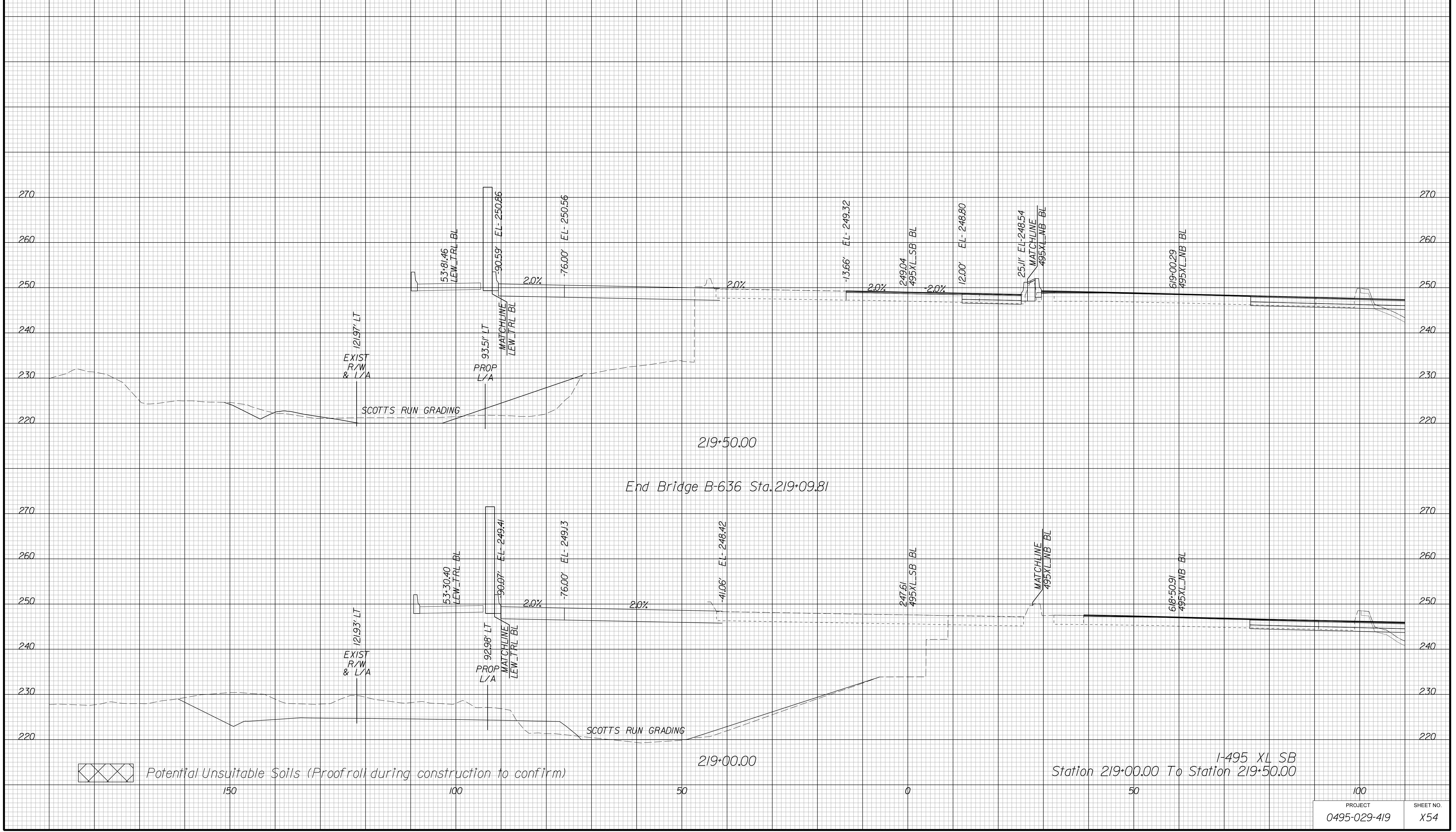
# CROSS SECTIONS

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	X54

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	X54



PROJECT MANAGER VDOT - Bimbal Stab PE (703) 259-2362  
SURVEYED BY DATE BDA - Nicholas Kougoulis LS (703) 334-0837, 1/2019  
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

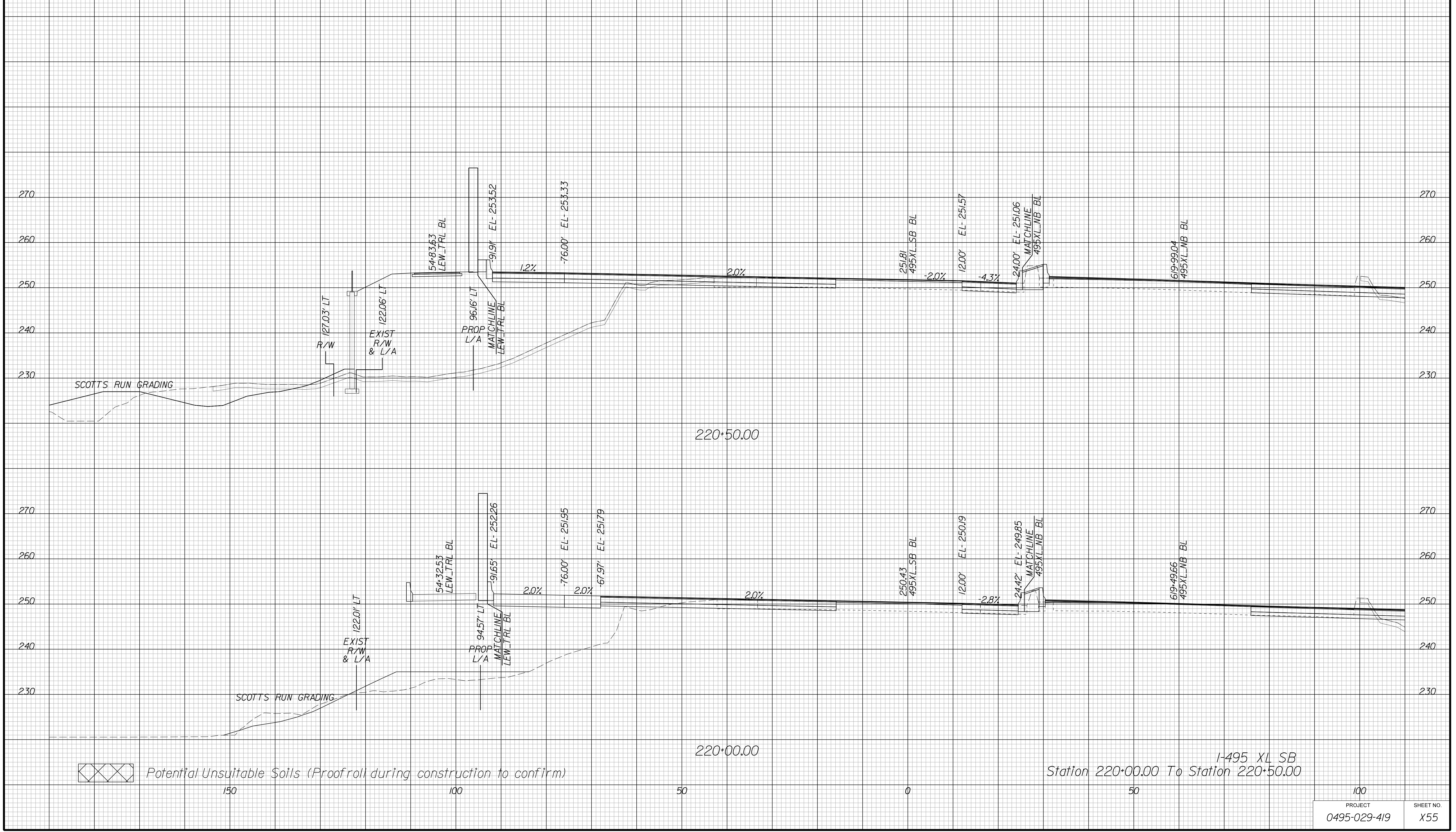
# CROSS SECTIONS

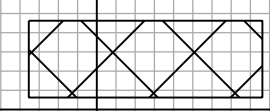
SCALE 1 IN. = 10 FT

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	X55

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 Stab PE (703) 259-2362  
SURVEYED BY, DATE BDA - Nicholas Kougoulis LS (703) 334-0837, 1/2019  
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

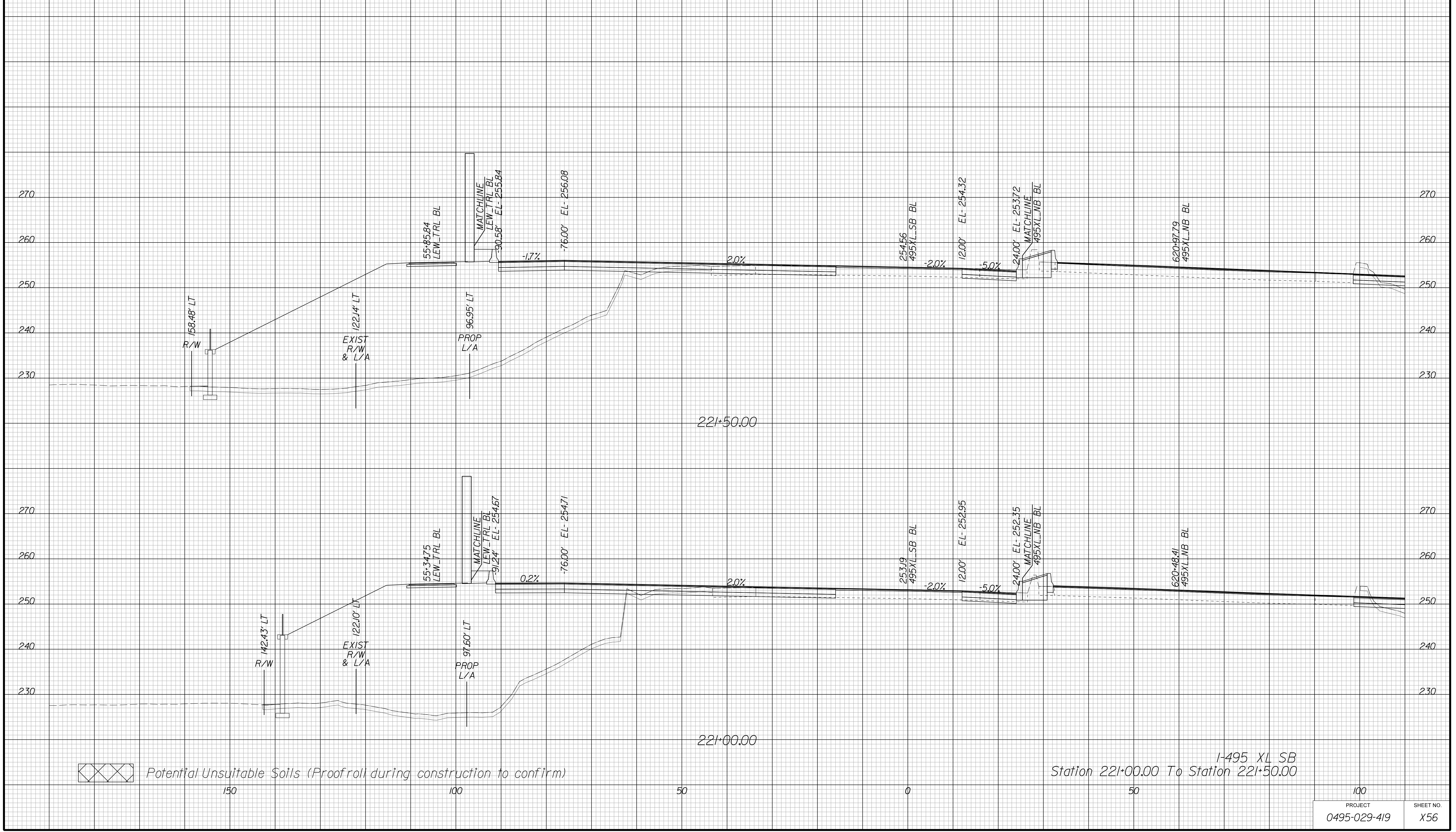
# CROSS SECTIONS

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	X56

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	X56



PROJECT MANAGER VDOT - Bipal Sab PE (703) 259-2362  
SURVEYED BY DATE BDA - Nicholas Kougoulis LS (703) 334-0837, 1/2019  
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

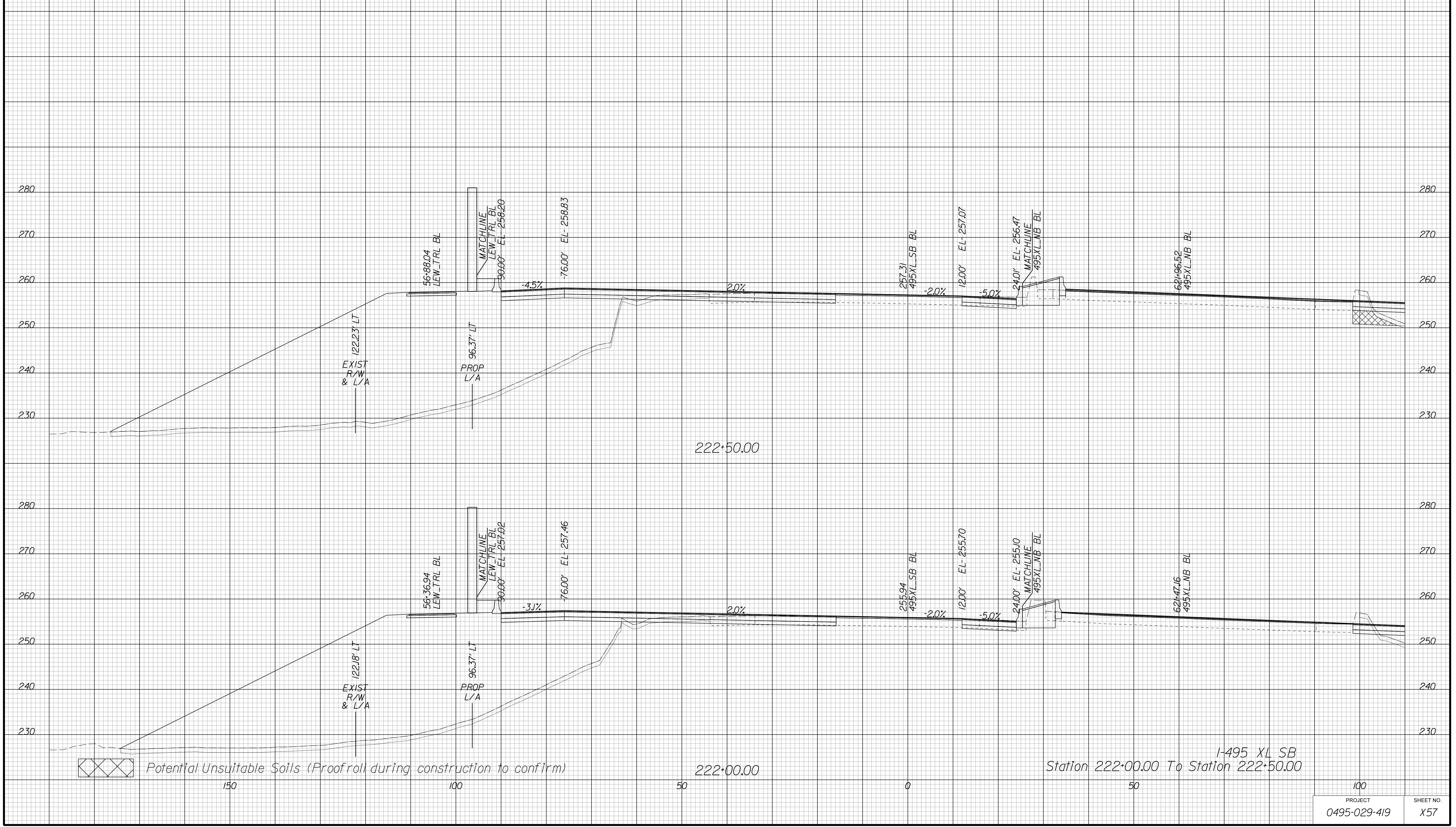
# CROSS SECTIONS

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	X57

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, 1/2019  
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

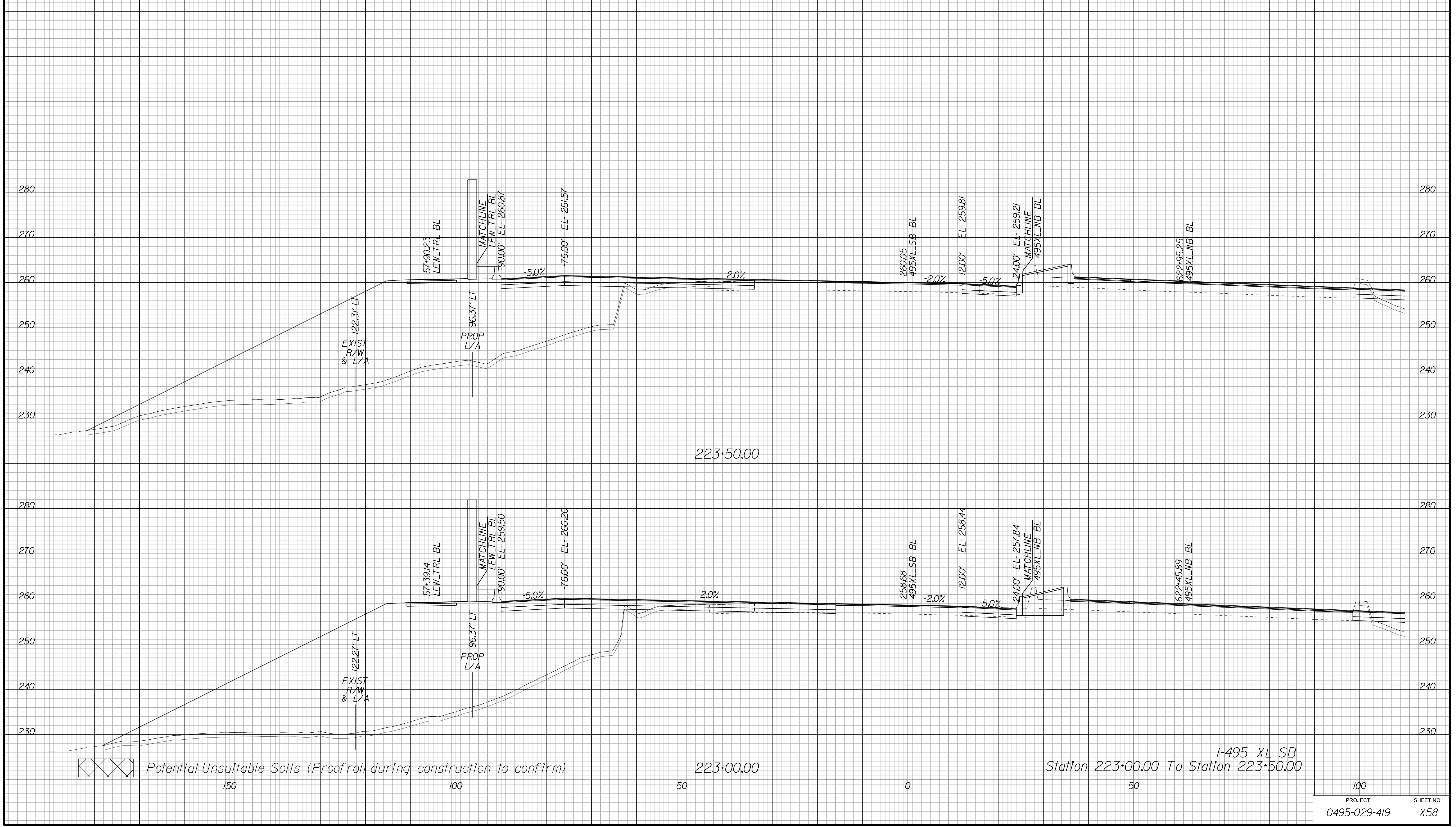
# CROSS SECTIONS

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	X58

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, 1/2019  
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

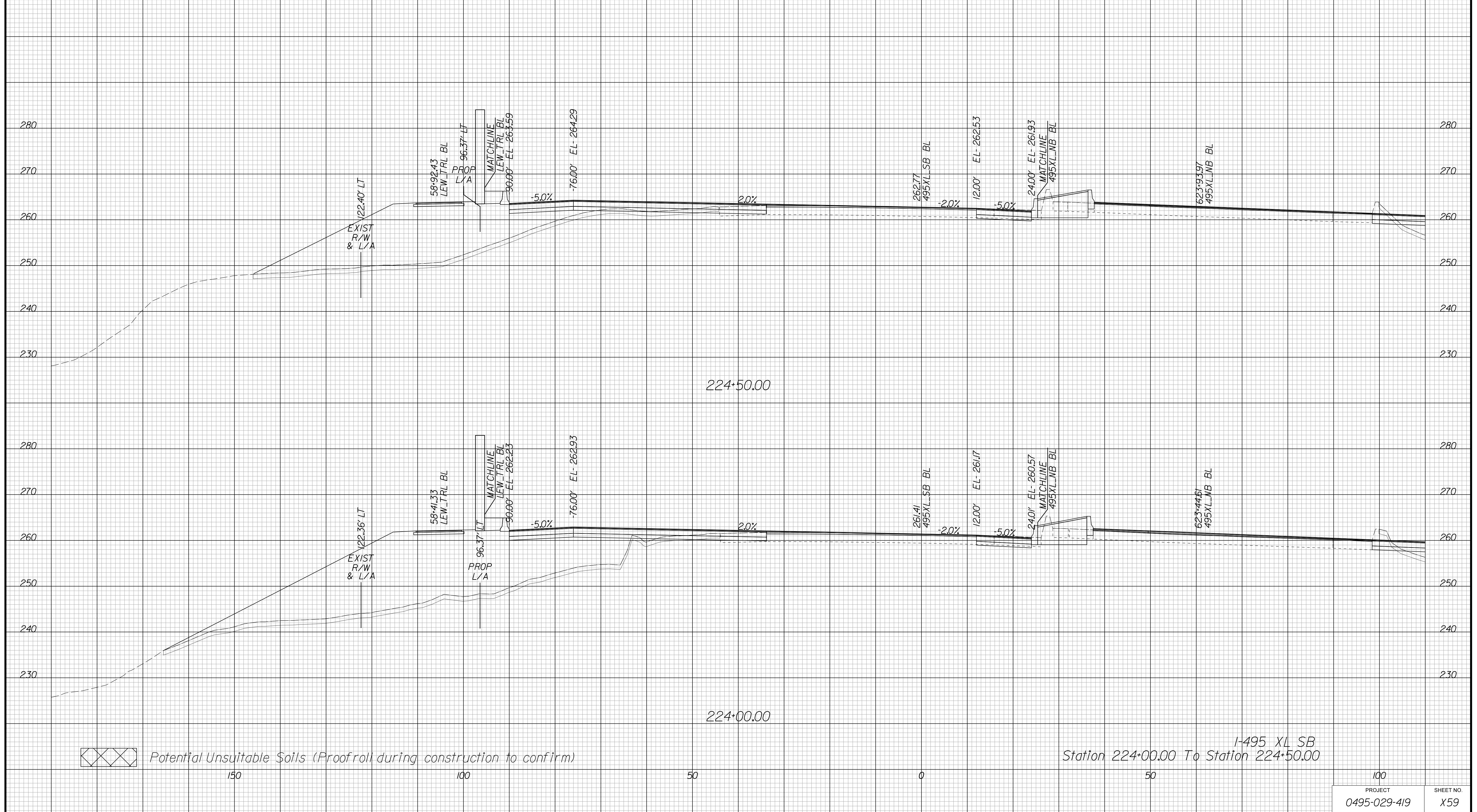
# CROSS SECTIONS

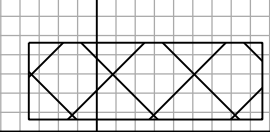
SCALE 1 IN. = 10 FT

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	X59

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 SB  
Station 224+00.00 To Station 224+50.00

PROJECT	SHEET NO.
0495-029-419	X59

APPROVED FOR CONSTRUCTION

PROJECT MANAGER VDOT - Bimbal Stab PE (703) 259-2362  
SURVEYED BY DATE BDA - Nicholas Kougoulis LS (703) 334-0837, 1/2019  
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

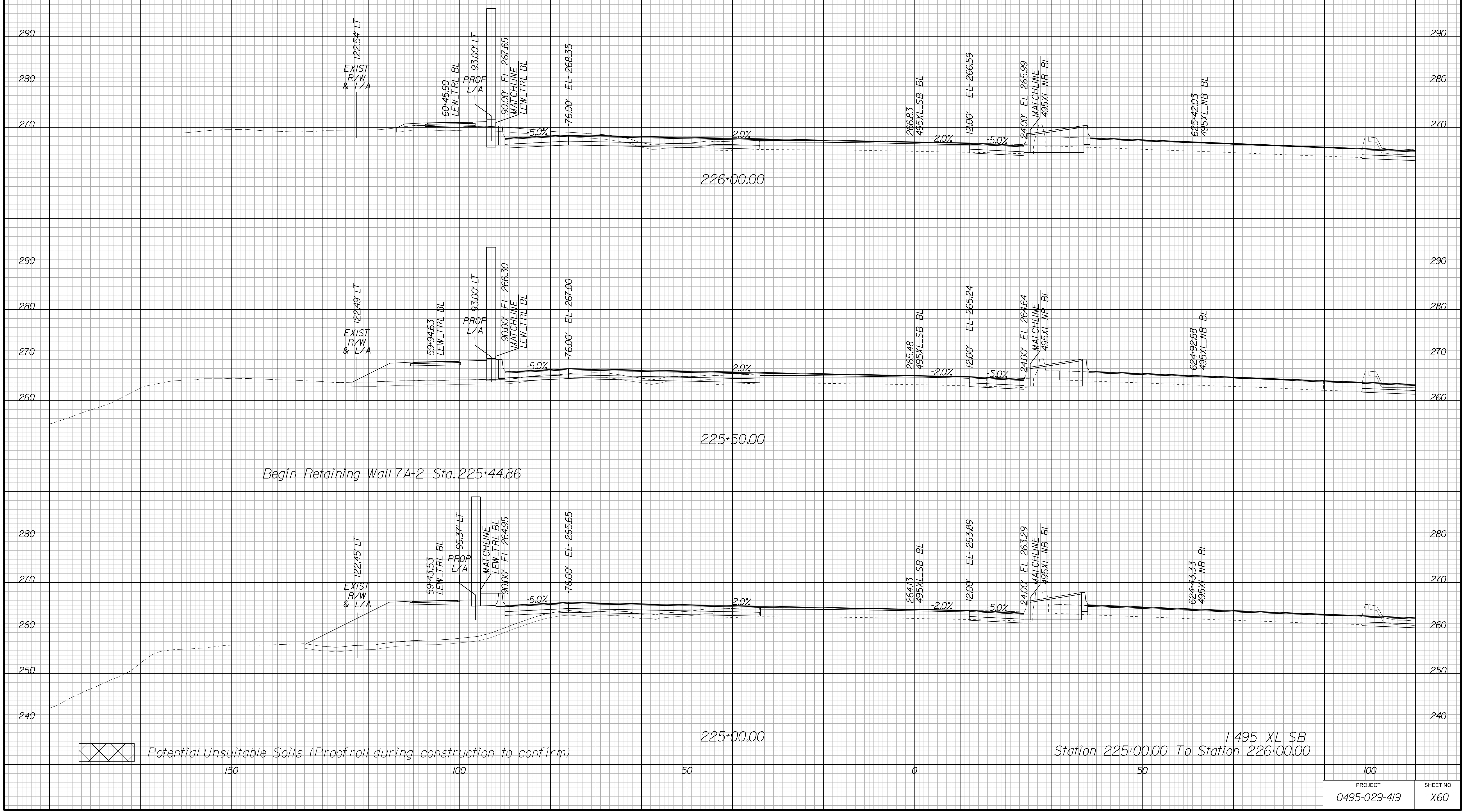
# CROSS SECTIONS

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	X60

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, 1/2019  
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

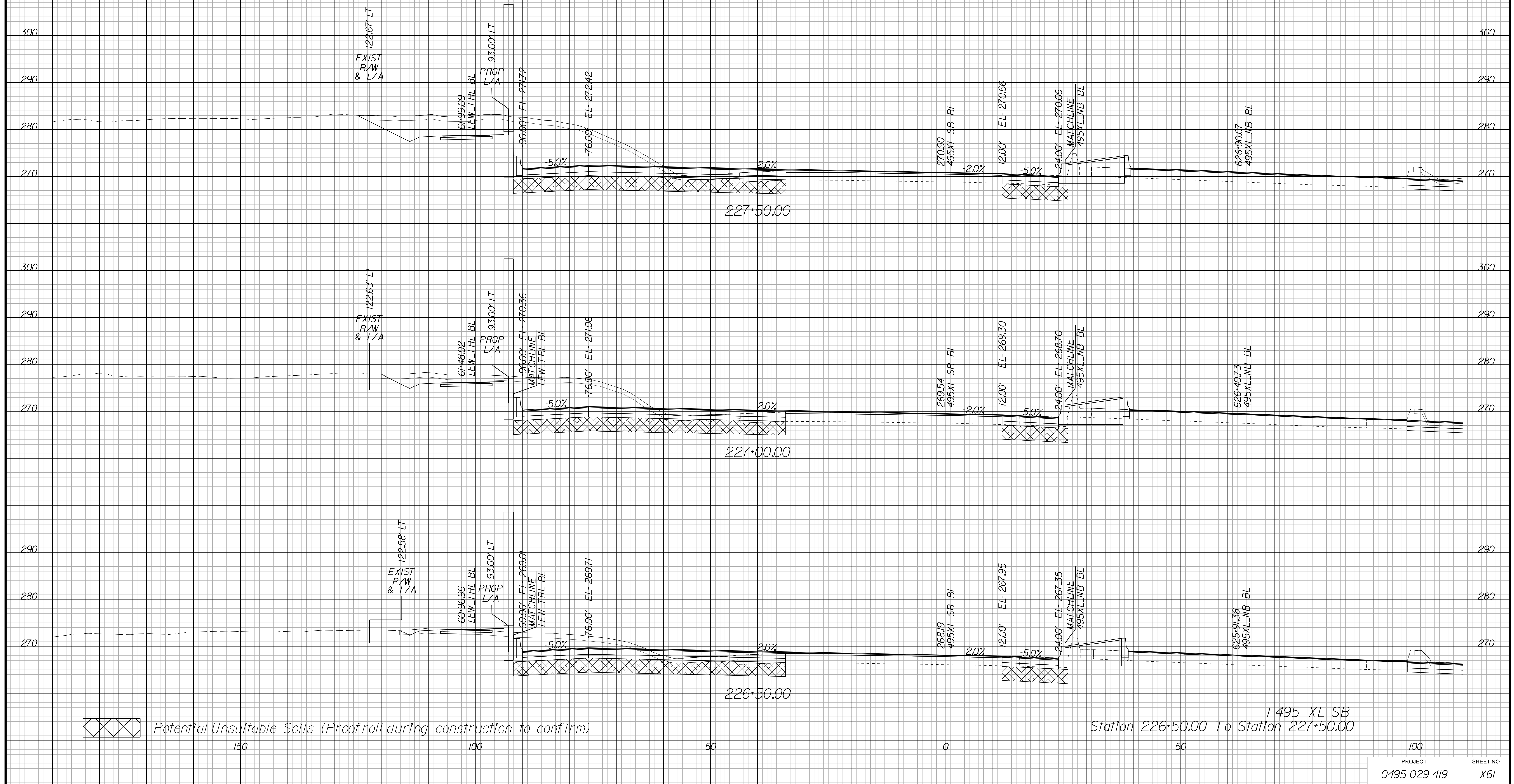
# CROSS SECTIONS

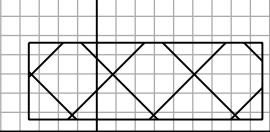
SCALE 1 IN. = 10 FT

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	X61

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 SB  
Station 226+50.00 To Station 227+50.00

PROJECT	SHEET NO.
0495-029-419	X61

APPROVED FOR CONSTRUCTION

PROJECT MANAGER VDOT - Bimbal Stab PE (703) 259-2362  
SURVEYED BY, DATE BDA - Nicholas Kougoulis LS (703) 334-0837, 1/2019  
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

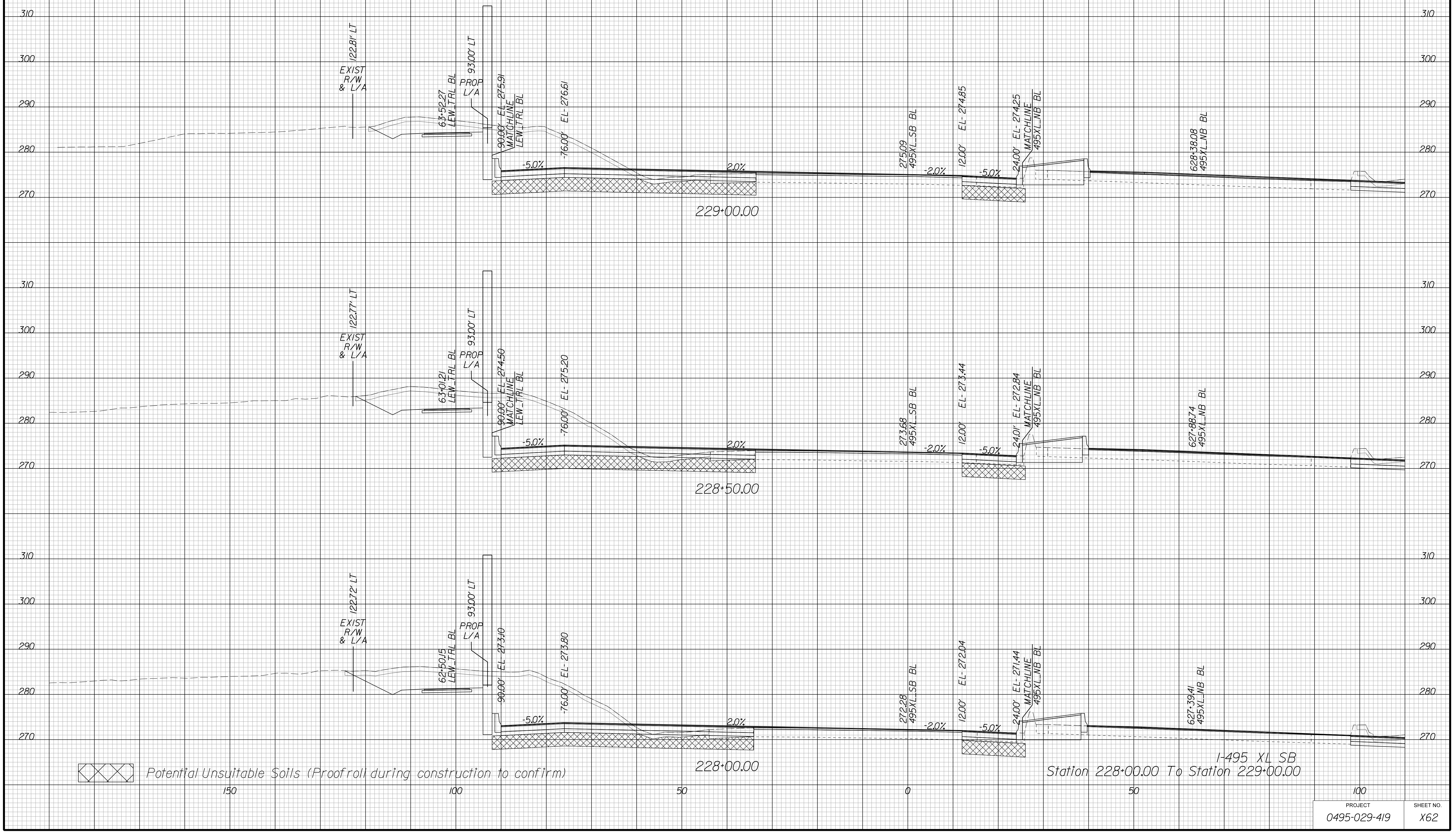
# CROSS SECTIONS

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	X62

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, 1/2019  
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

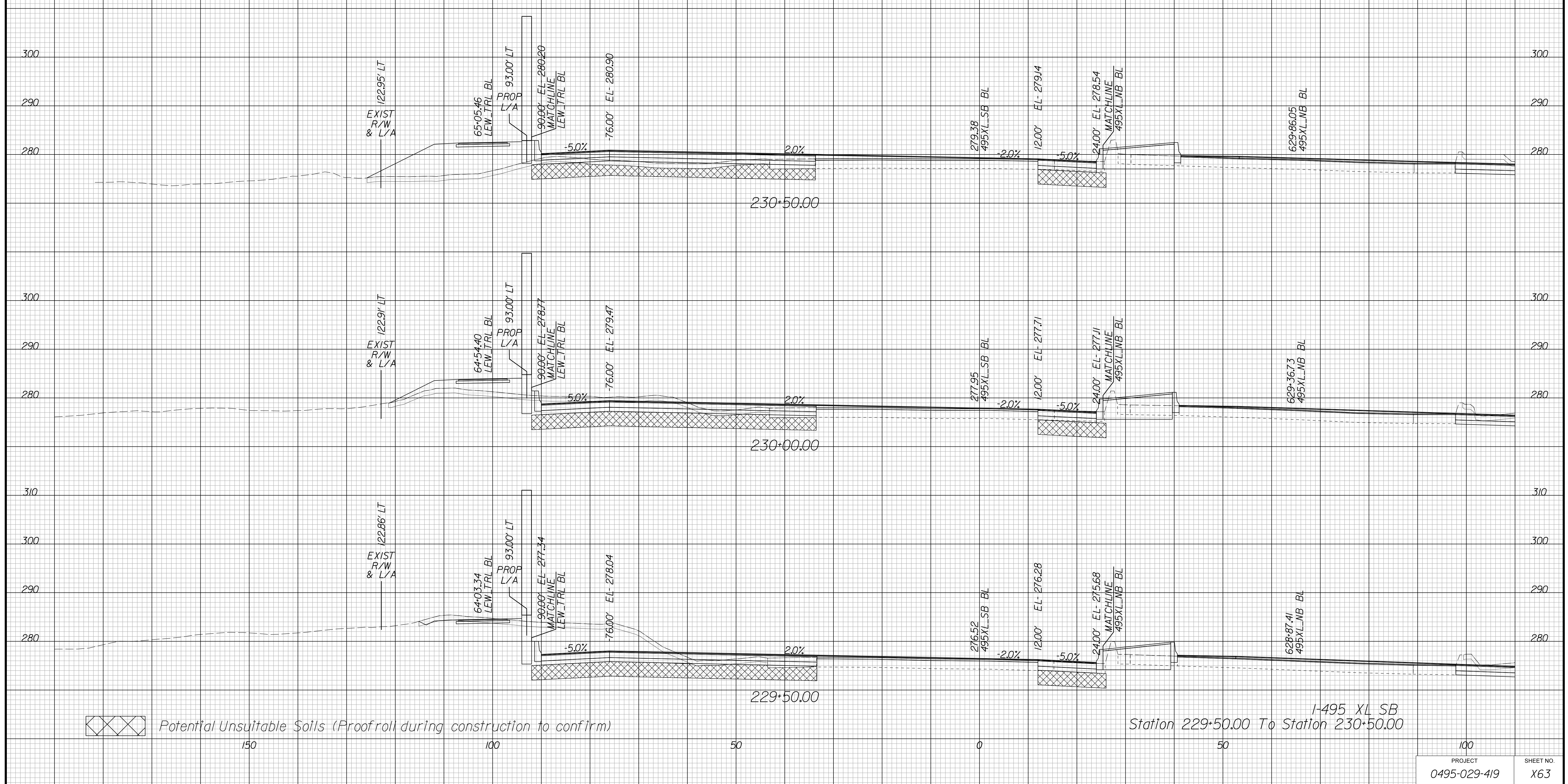
DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT

REVIS	STATE	ROUTE	STATE PROJECT	SHEET NO.
	VA.	495	0495-029-419	X63

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 7A-2 Sta. 230+89.23

End Retaining Wall 7A-1 Sta. 230+89.23



Potential Unsuitable Soils (Proofroll during construction to confirm)

I-495 XL SB  
Station 229+50.00 To Station 230+50.00

APPROVED FOR CONSTRUCTION

PROJECT	SHEET NO.
0495-029-419	X63

PROJECT MANAGER VDOT - Bimbal Stab PE (703) 259-2362  
SURVEYED BY DATE BDA - Nicholas Kougoulis LS (703) 334-0837, 1/2019  
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

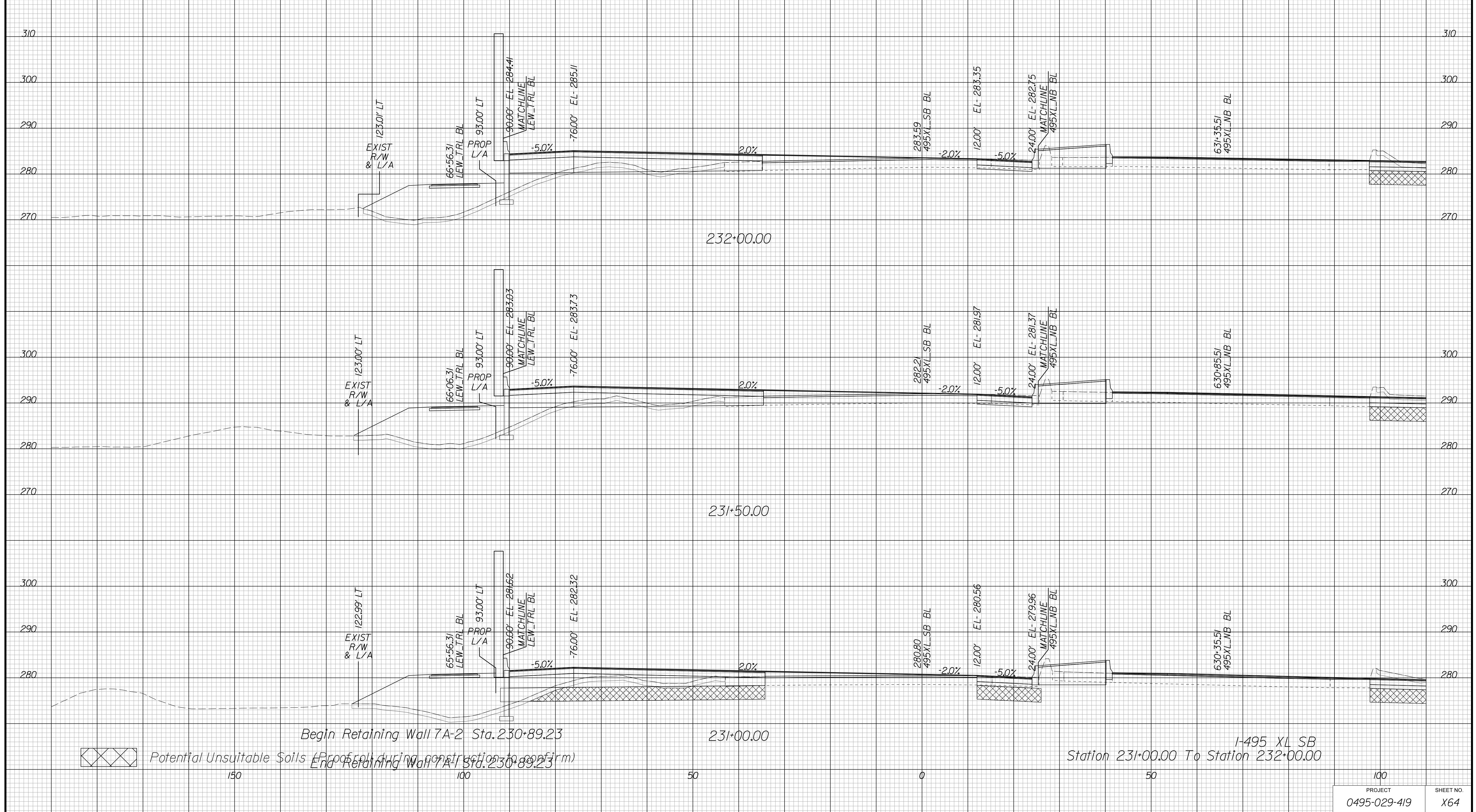
# CROSS SECTIONS

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	X64

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, 1/2019  
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

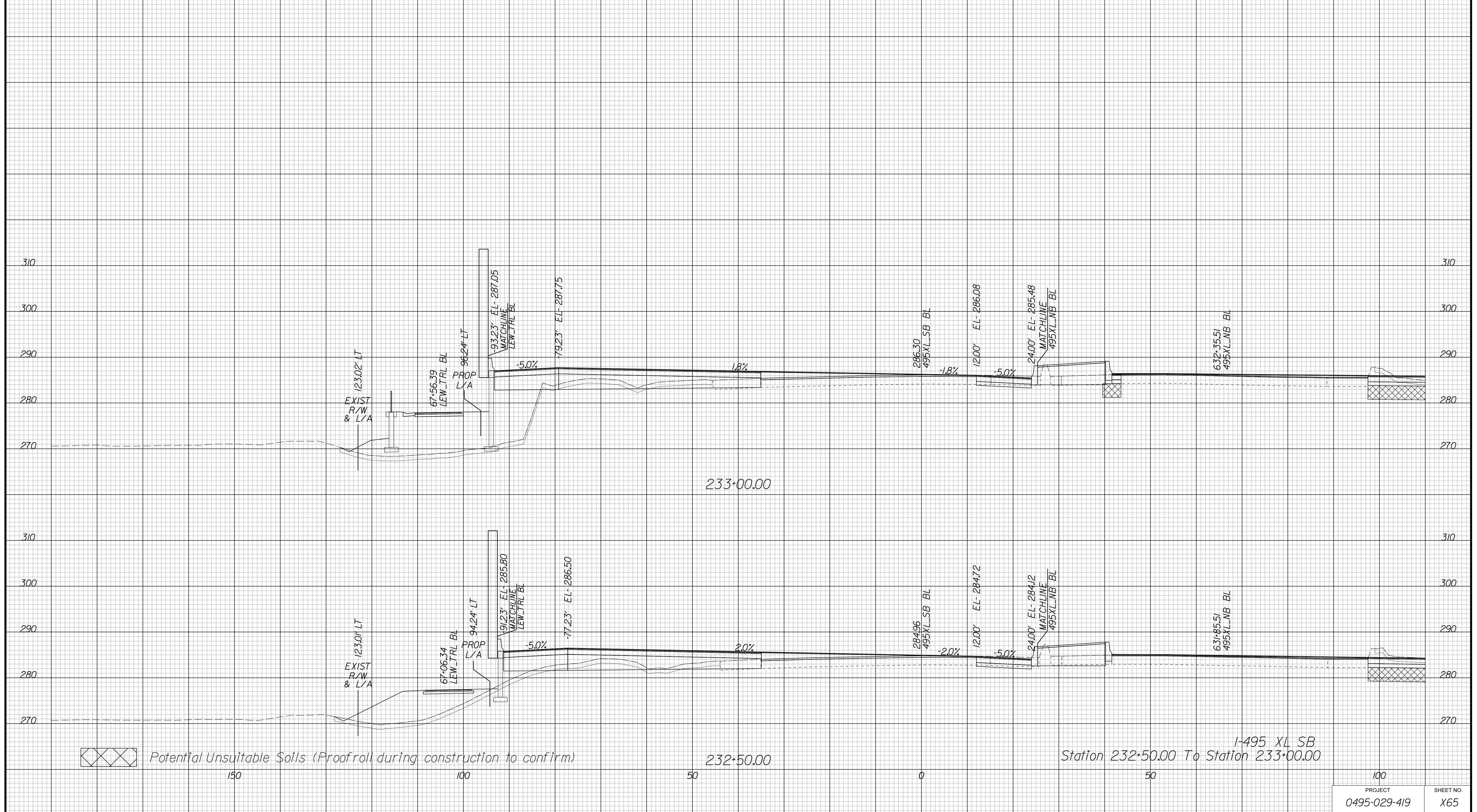
# CROSS SECTIONS

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	X65

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	X65

PROJECT MANAGER VDOT - Bimbal Stab PE (703) 259-2362  
SURVEYED BY DATE BDA - Nicholas Kougoulis LS (703) 334-0837, 1/2019  
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

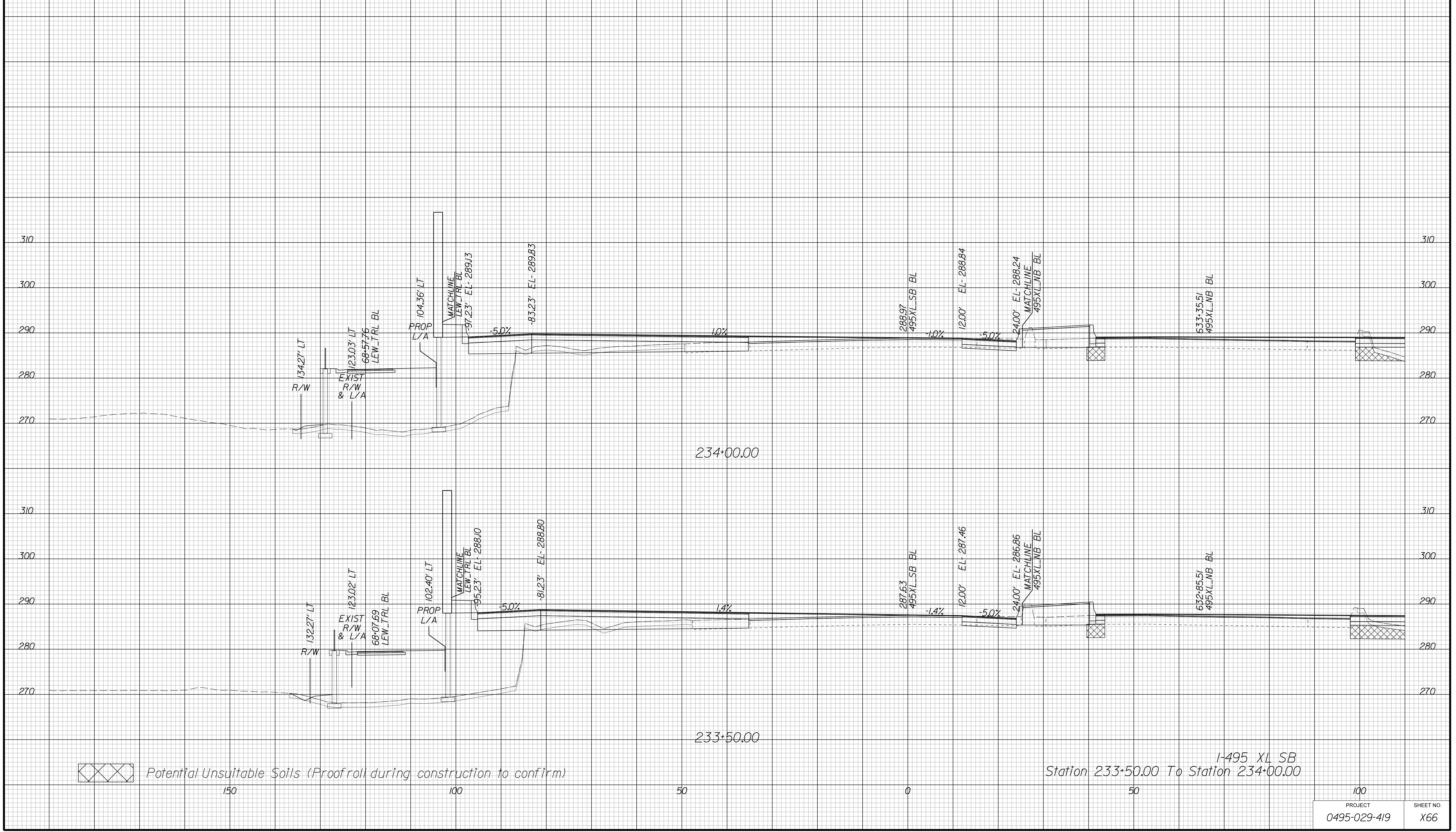
# CROSS SECTIONS

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	X66

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 233+50.00 To Station 234+00.00

PROJECT	SHEET NO.
0495-029-419	X66

APPROVED FOR CONSTRUCTION



PROJECT MANAGER VDOT - Bimbal Stab PE (703) 259-2362  
SURVEYED BY, DATE BDA - Nicholas Kougioulis LS (703) 334-0837, 1/2019  
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

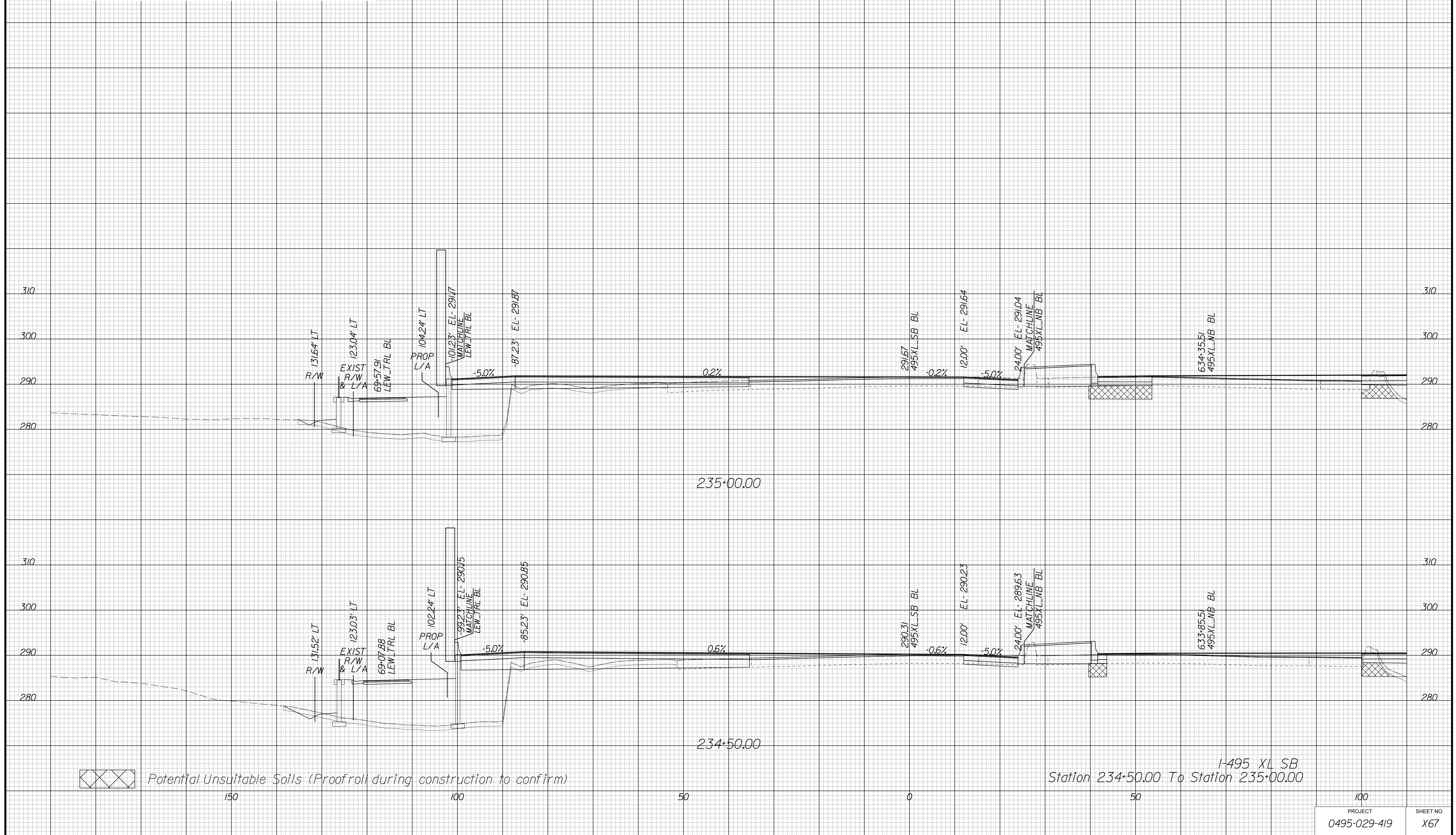
# CROSS SECTIONS

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	X67

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	X67

APPROVED FOR CONSTRUCTION

PROJECT MANAGER VDOT - Bimbal Stab PE (703) 259-2362  
SURVEYED BY DATE BDA - Nicholas Kougoulis LS (703) 334-0837, 1/2019  
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

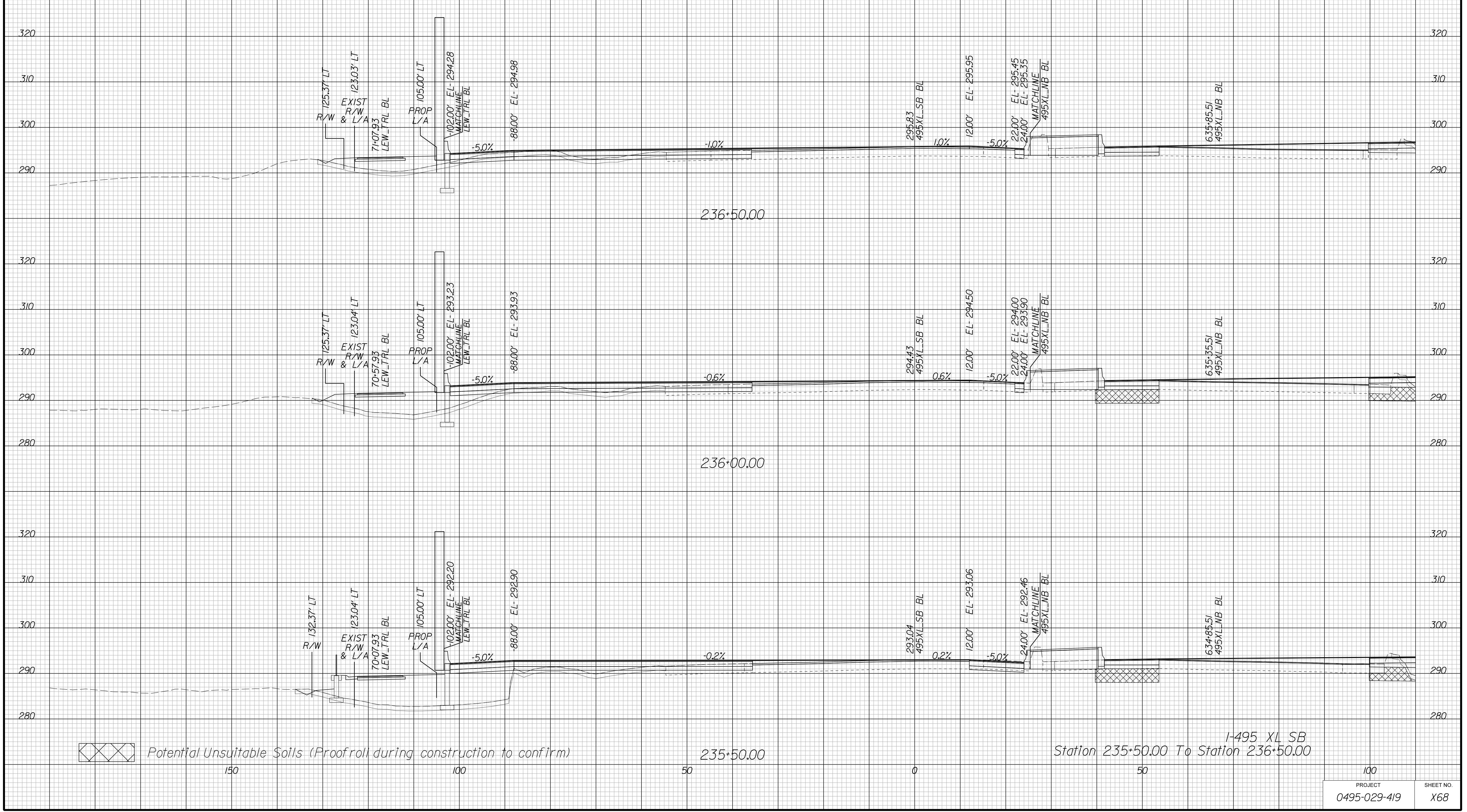
# CROSS SECTIONS

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

REVISION	STATE	ROUTE	STATE	PROJECT	SHEET NO.
	VA.	495		0495-029-419	X68

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, 1/2019  
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

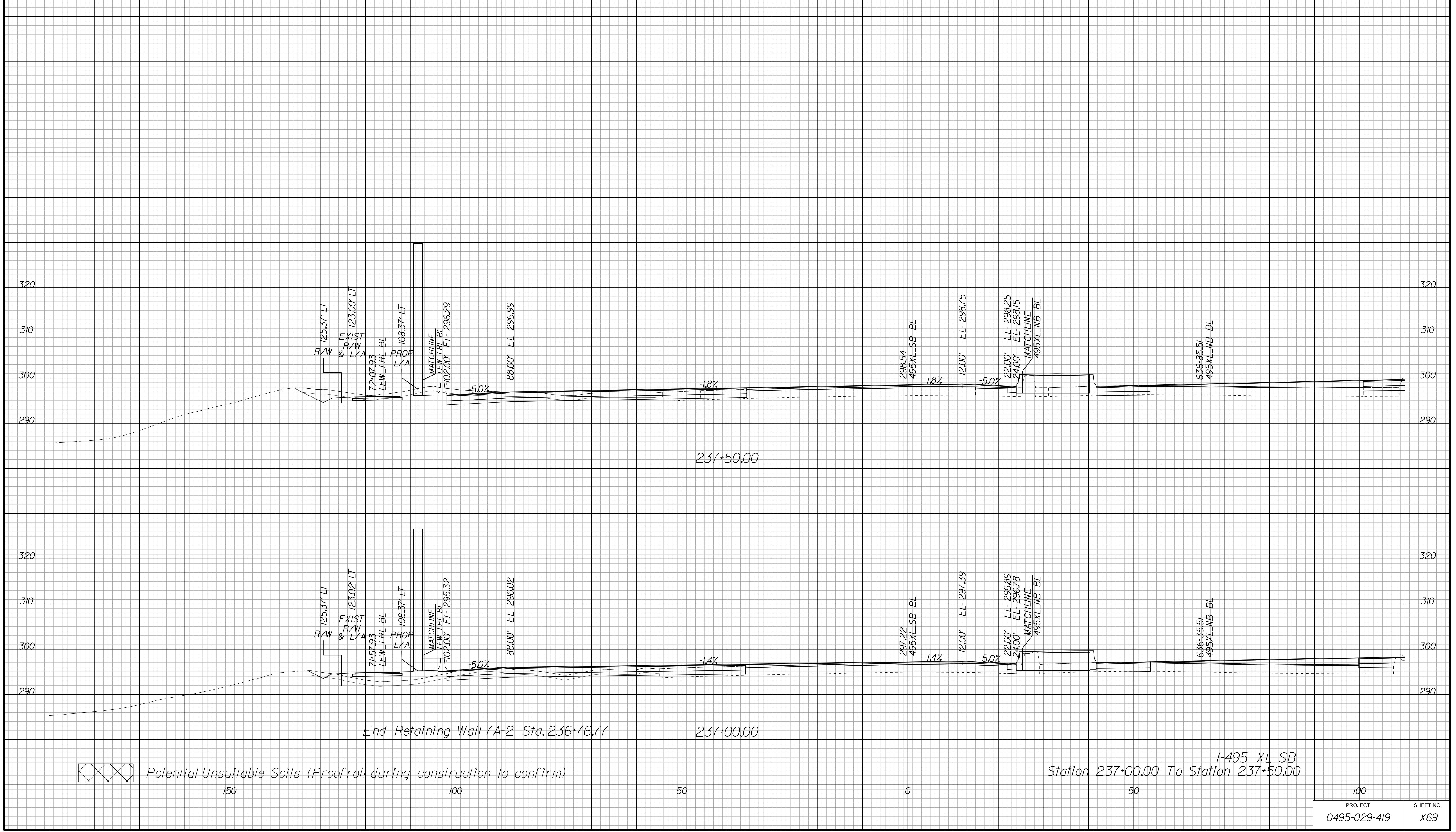
# CROSS SECTIONS

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	X69

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, 1/2019  
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

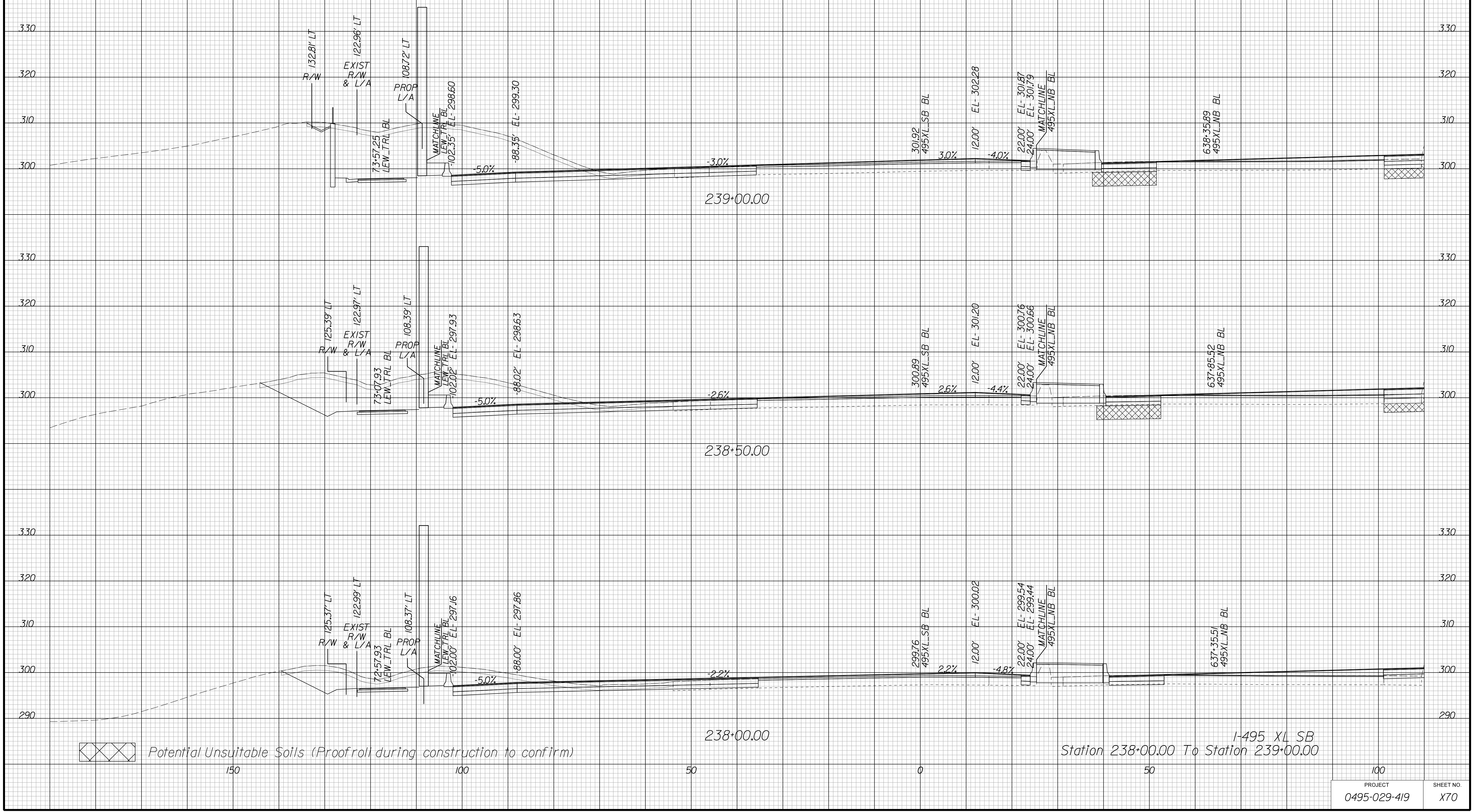
# CROSS SECTIONS

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	X70

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 Stab, PE, (703) 259-2362  
SURVEYED BY, DATE BDA - Nicholas Kougoulis, LS, (703) 334-0837, 1/2019  
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

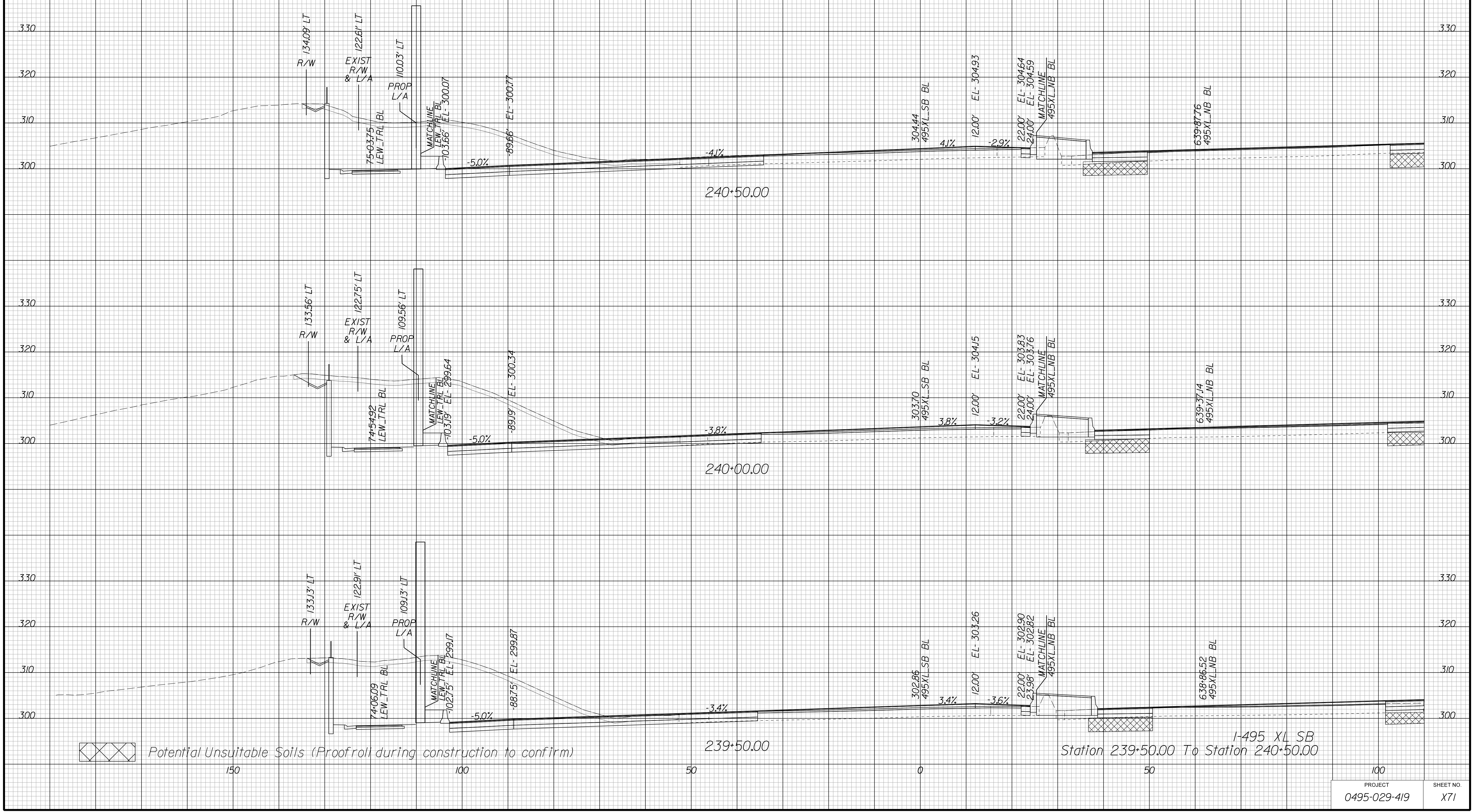
# CROSS SECTIONS

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	X71

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, 1/2019  
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

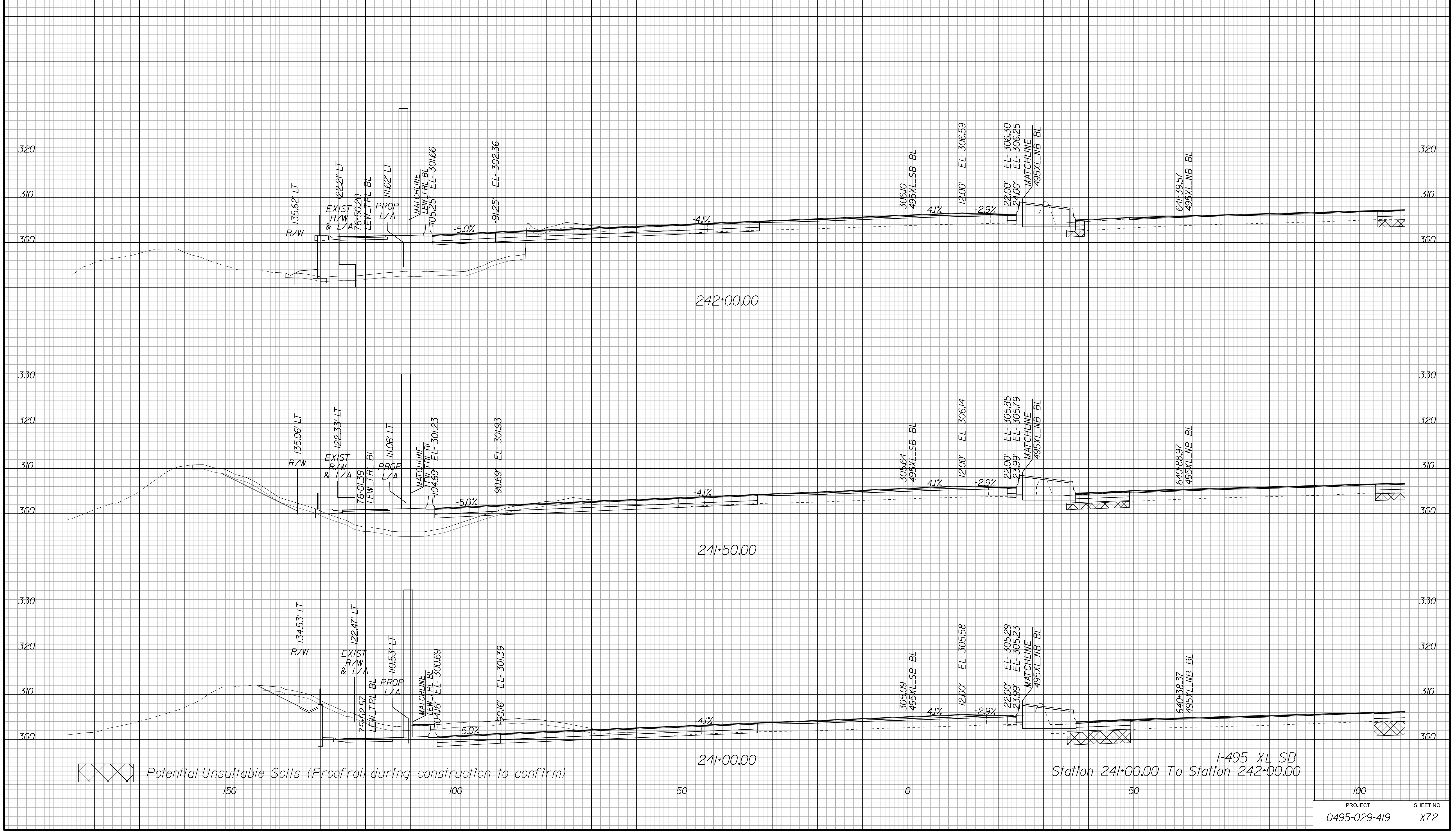
# CROSS SECTIONS

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	X72

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 SB  
Station 241+00.00 To Station 242+00.00

PROJECT	SHEET NO.
0495-029-419	X72

APPROVED FOR CONSTRUCTION



PROJECT MANAGER VDOT - Bimbal Stab PE (703) 259-2362  
SURVEYED BY DATE BDA - Nicholas Kougoulis LS (703) 334-0837, 1/2019  
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

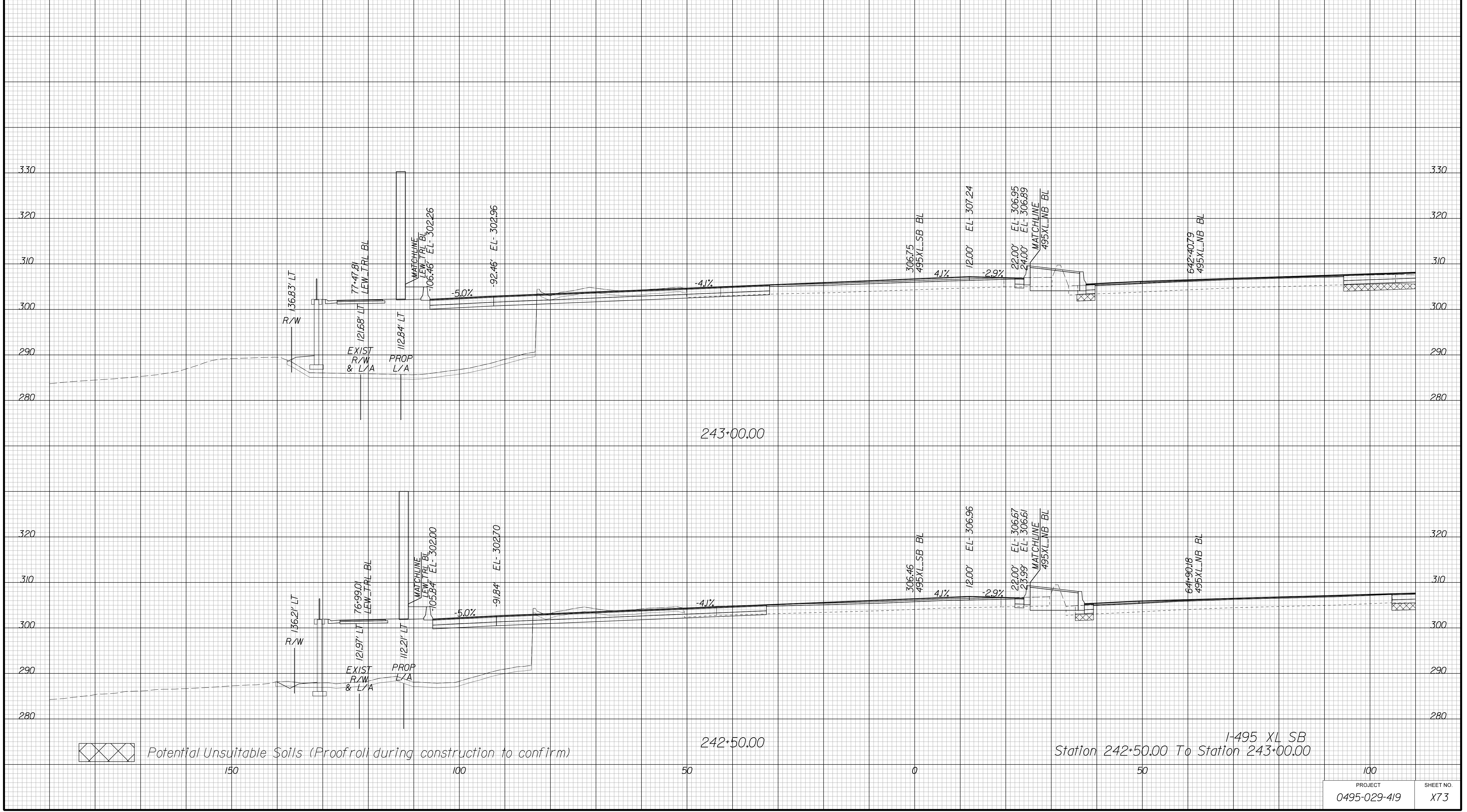
# CROSS SECTIONS

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	X73

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 SB  
Station 242+50.00 To Station 243+00.00

PROJECT	SHEET NO.
0495-029-419	X73

APPROVED FOR CONSTRUCTION

PROJECT MANAGER VDOT - Bimbal Stab PE (703) 259-2362  
SURVEYED BY DATE BDA - Nicholas Kougoulis LS (703) 334-0837, 1/2019  
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

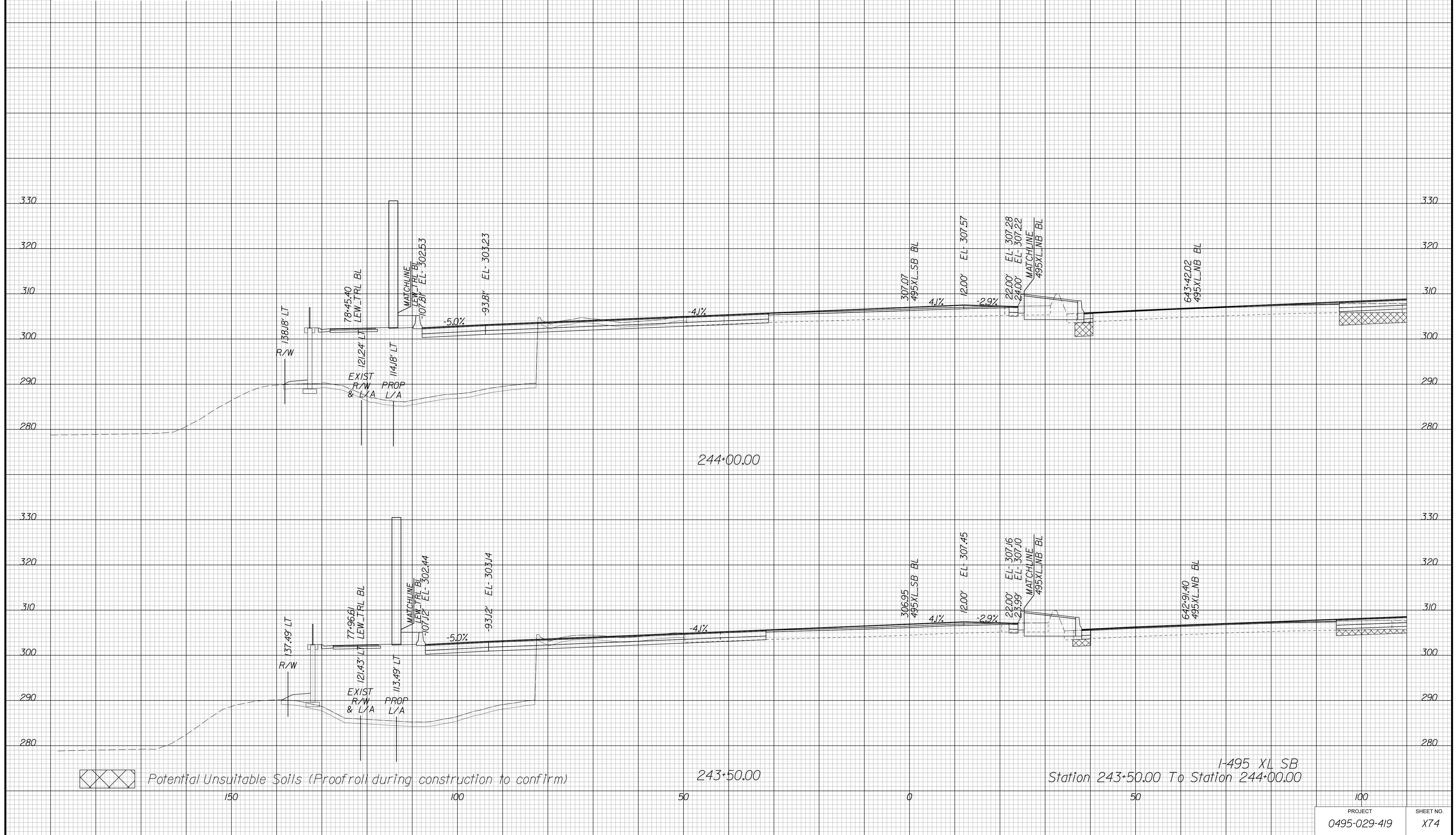
# CROSS SECTIONS

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	X74

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, 1/2019  
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

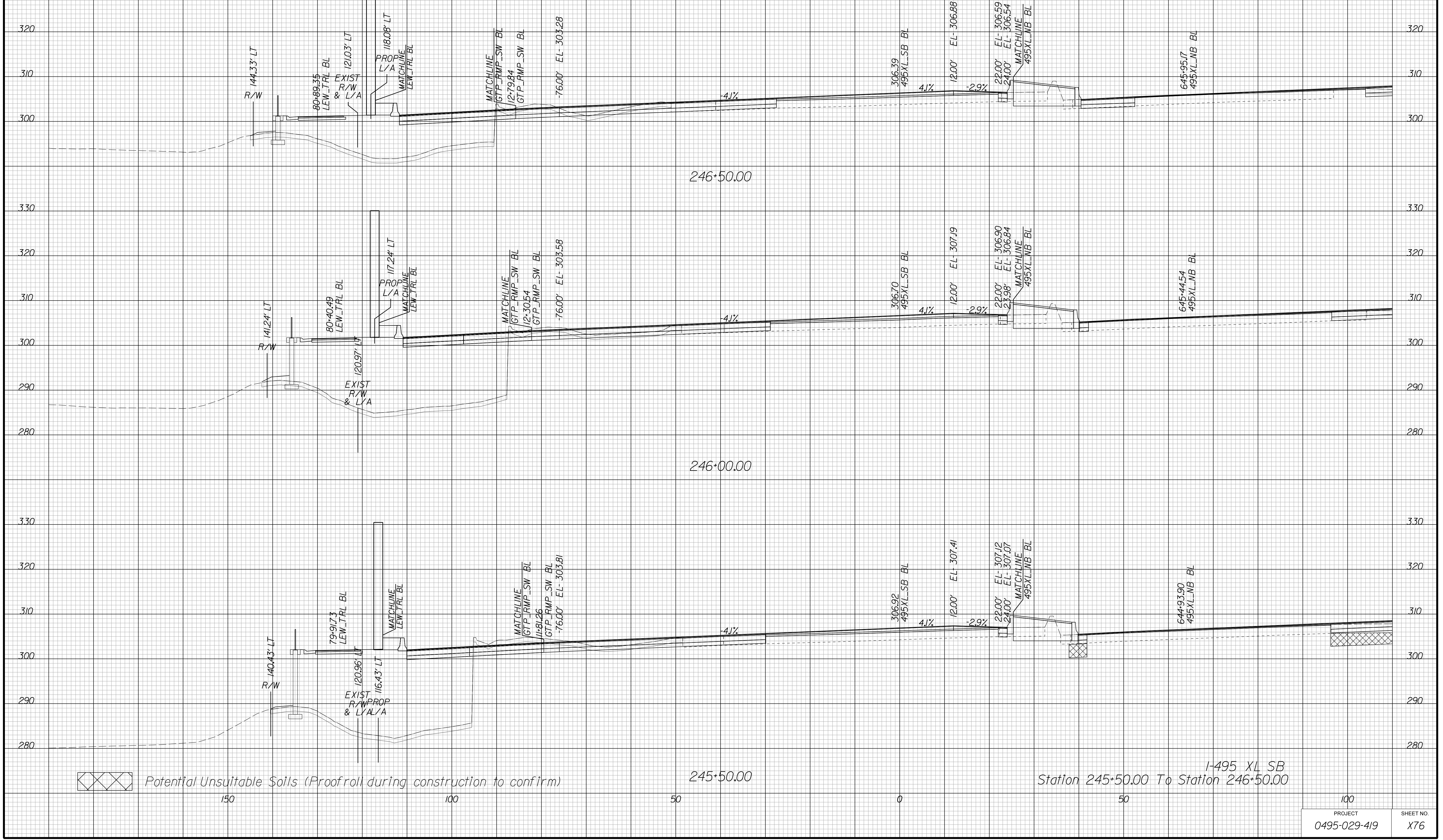
# CROSS SECTIONS

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	X76

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 SB  
Station 245+50.00 To Station 246+50.00

PROJECT	SHEET NO.
0495-029-419	X76

APPROVED FOR CONSTRUCTION



PROJECT MANAGER VDOT - Bipal Sab PE.(703) 259-2362  
SURVEYED BY, DATE BDA - Nicholas Kougioulis LS.(703) 334-0837, 1/2019  
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

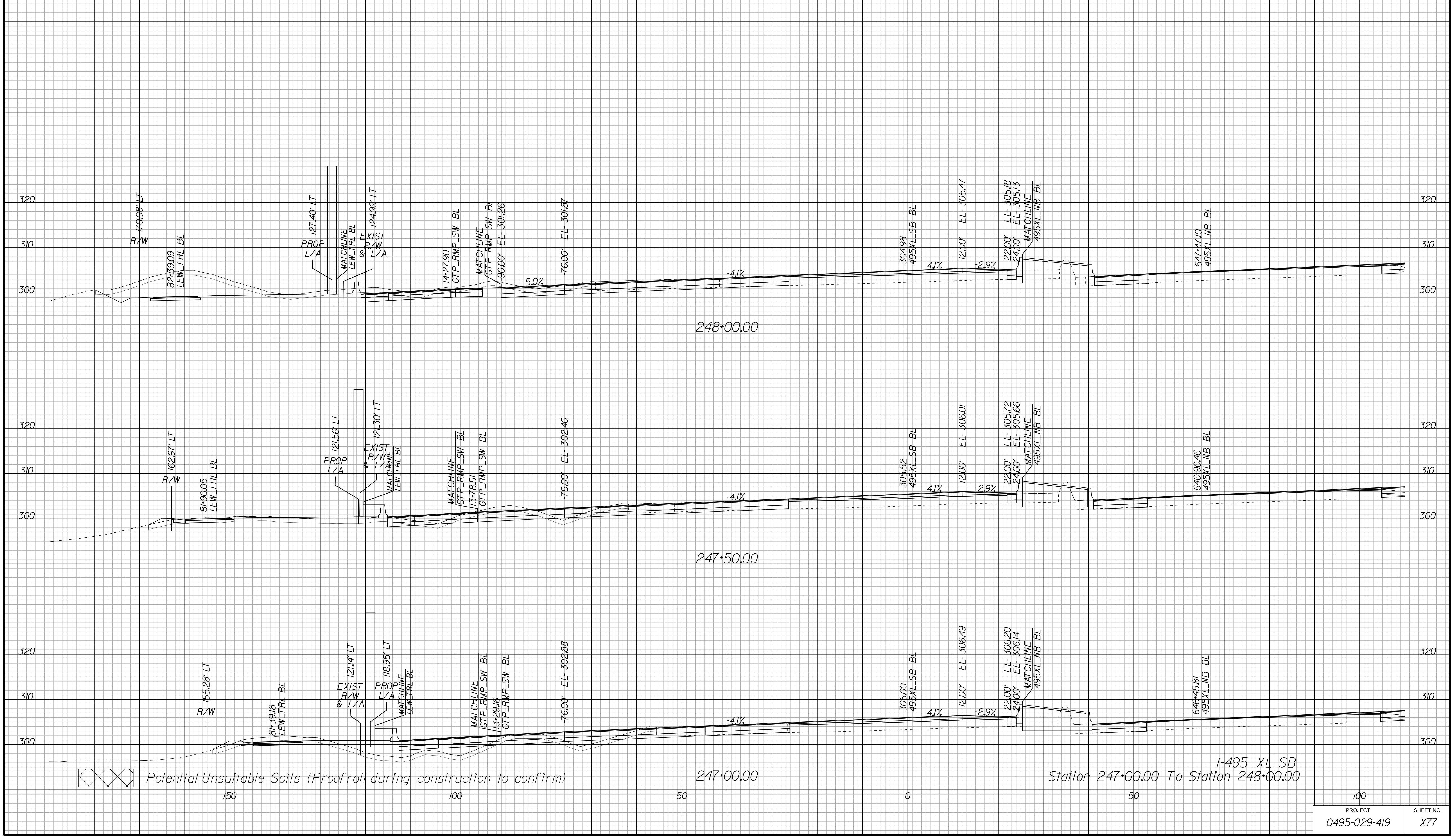
# CROSS SECTIONS

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

REVISD	STATE	ROUTE	STATE	PROJECT	SHEET NO.
	VA.	495		0495-029-419	X77

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	X77

PROJECT MANAGER VDOT - Bimbal Stab PE (703) 259-2362  
SURVEYED BY DATE BDA - Nicholas Kougoulis LS (703) 334-0837, 1/2019  
DESIGN BY BDA - Darrell Elischer BE (703) 334-0823, Devonbery - Ron Jakominich PE (703) 849-0651  
SUBSURFACE UTILITY BY DATE Accurmark - Michael Taylor LS (703) 635-3060, 12/2021

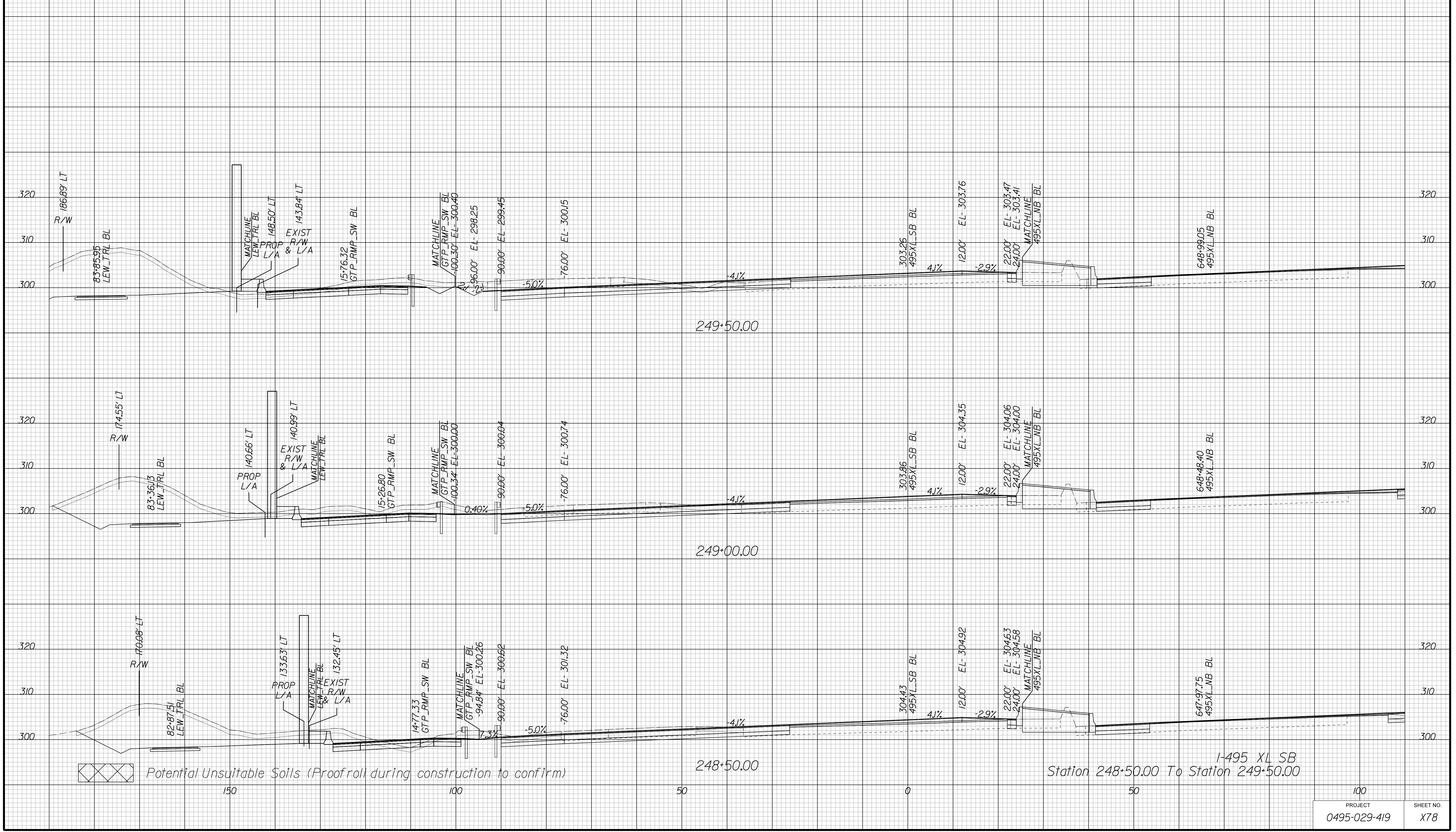
# CROSS SECTIONS

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	X78

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, 1/2019  
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

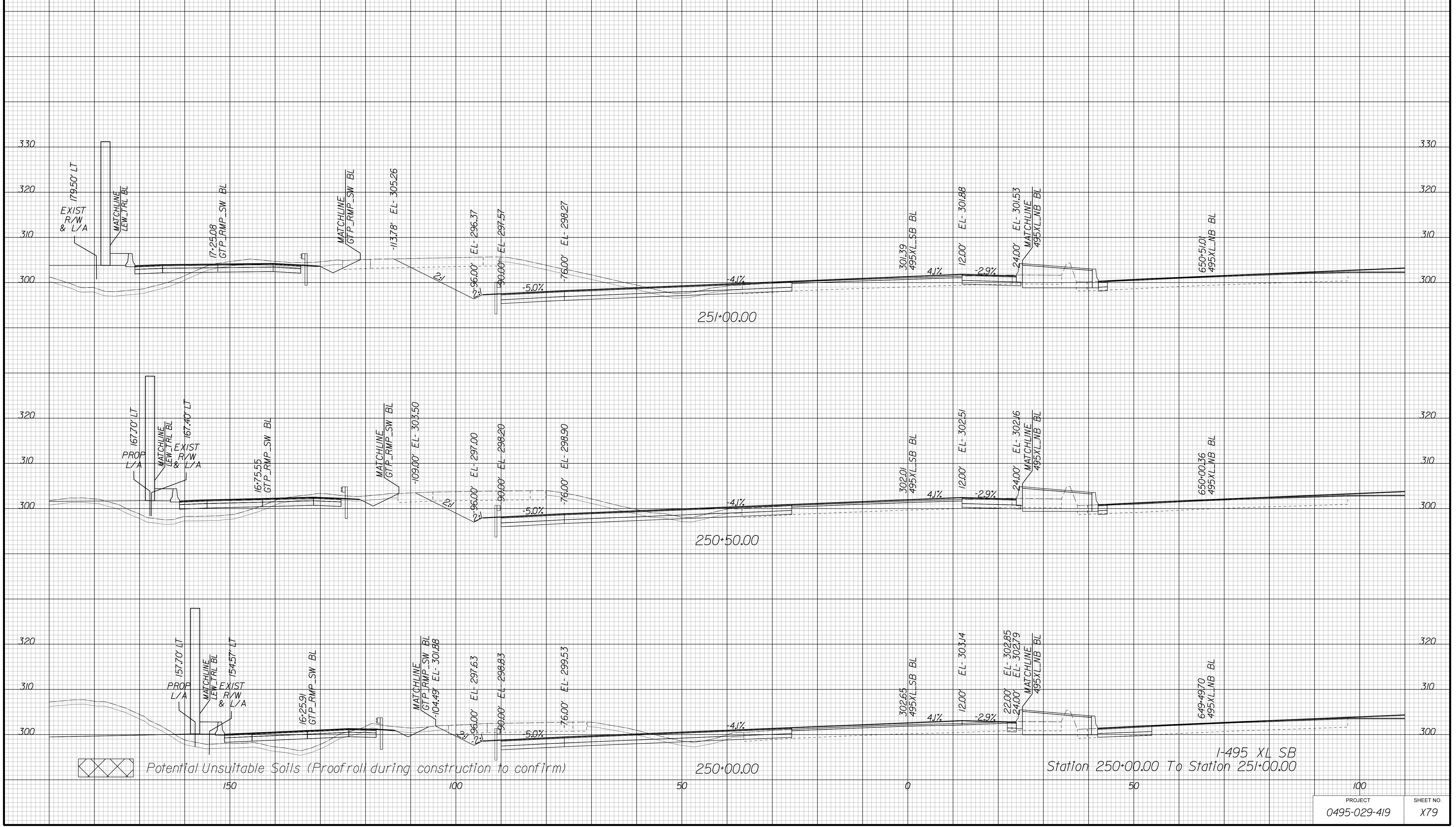
# CROSS SECTIONS

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	X79

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	X79

PROJECT MANAGER VDOT - Bimal Sab PE (703) 259-2362  
SURVEYED BY DATE BDA - Nicholas Kougioulis LS (703) 334-0837, 1/2019  
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

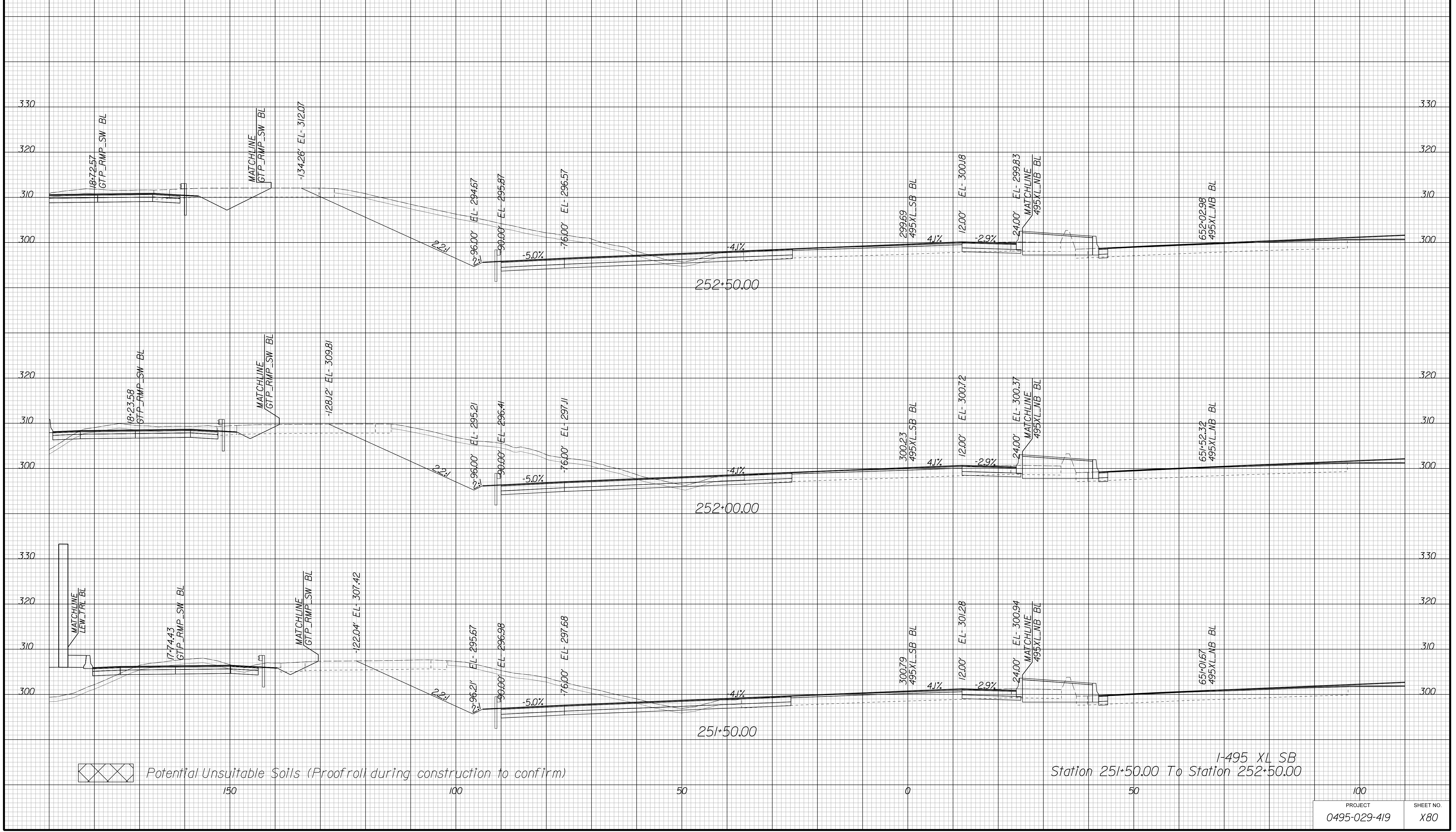
# CROSS SECTIONS

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	X80

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	X80



PROJECT MANAGER VDOT - Bimbal Stab PE (703) 259-2362  
SURVEYED BY DATE BDA - Nicholas Kougoullis LS (703) 334-0837, 1/2019  
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

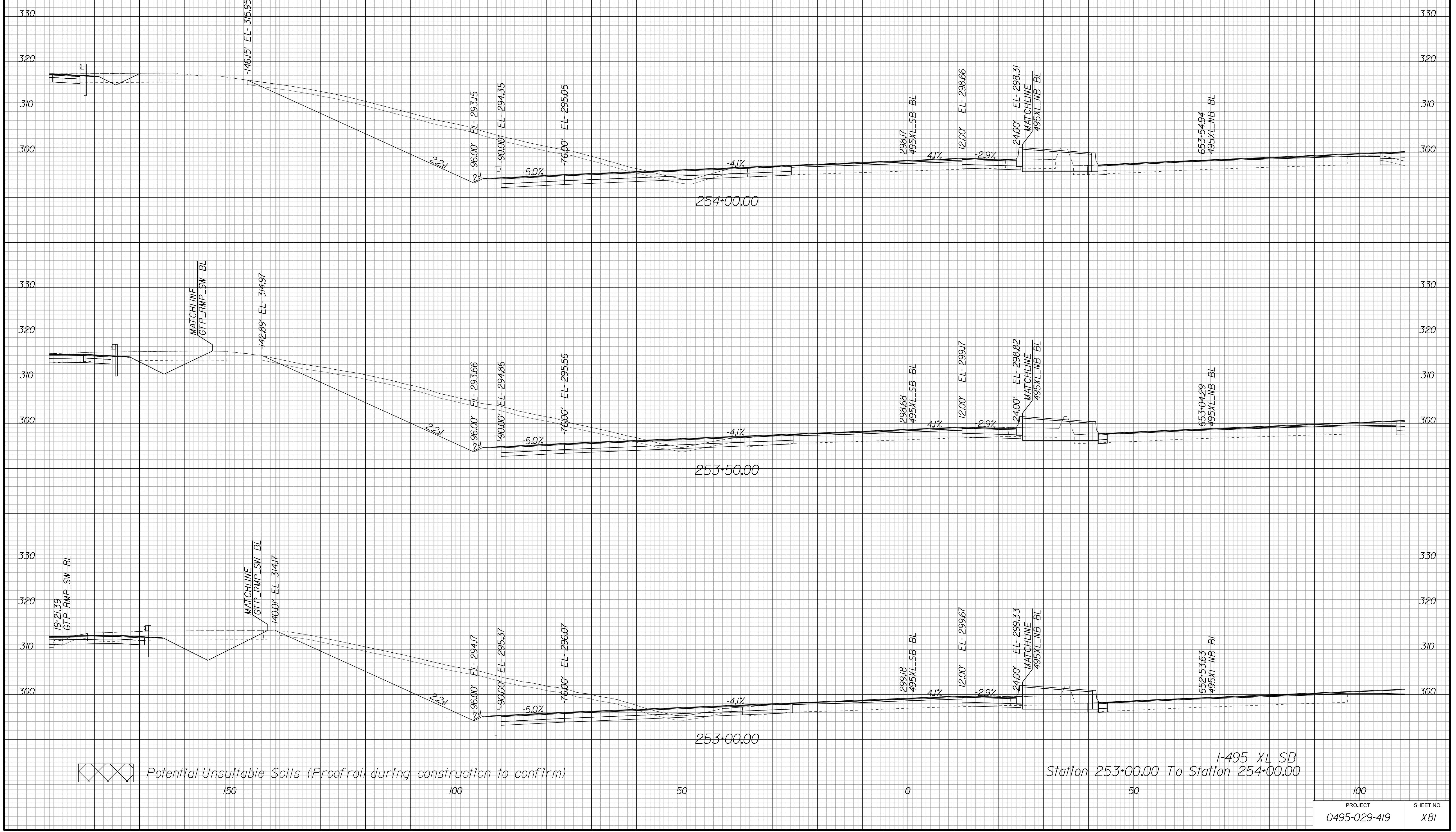
# CROSS SECTIONS

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

REVISION	STATE	ROUTE	STATE	PROJECT	SHEET NO.
	VA.	495		0495-029-419	X81

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	X81

PROJECT MANAGER VDOT - Bimbal Stab PE (703) 259-2362  
SURVEYED BY DATE BDA - Nicholas Kougoulis LS (703) 334-0837, 1/2019  
DESIGN BY BDA - Darell 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

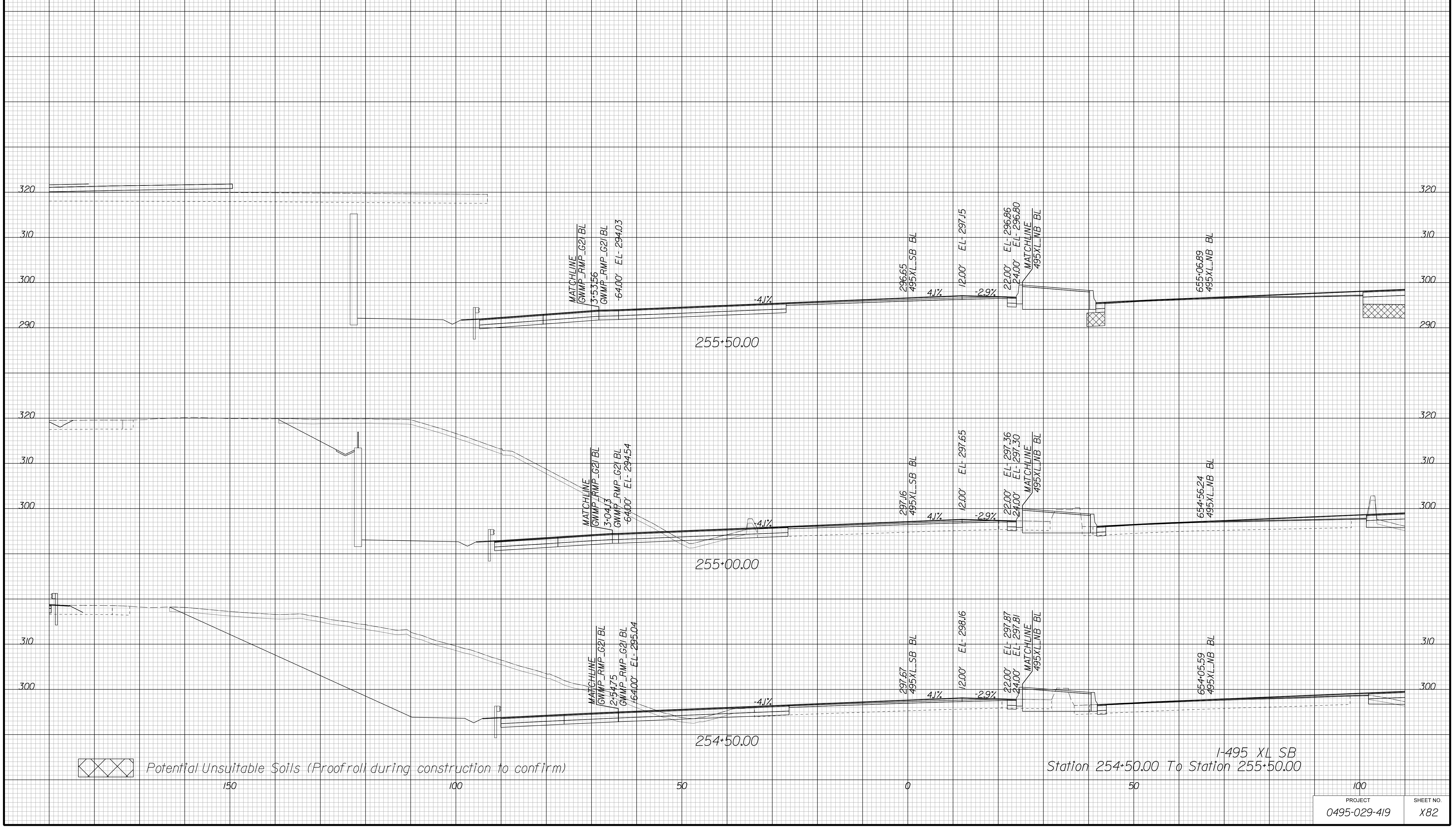
# CROSS SECTIONS

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	X82

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 254+50.00 To Station 255+50.00

Potential Unsuitable Soils (Proofroll during construction to confirm)

APPROVED FOR CONSTRUCTION





PROJECT MANAGER VDOT - Bimbal Stab PE (703) 259-2362  
SURVEYED BY DATE BDA - Nicholas Kougoullis LS (703) 334-0837, 1/2019  
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

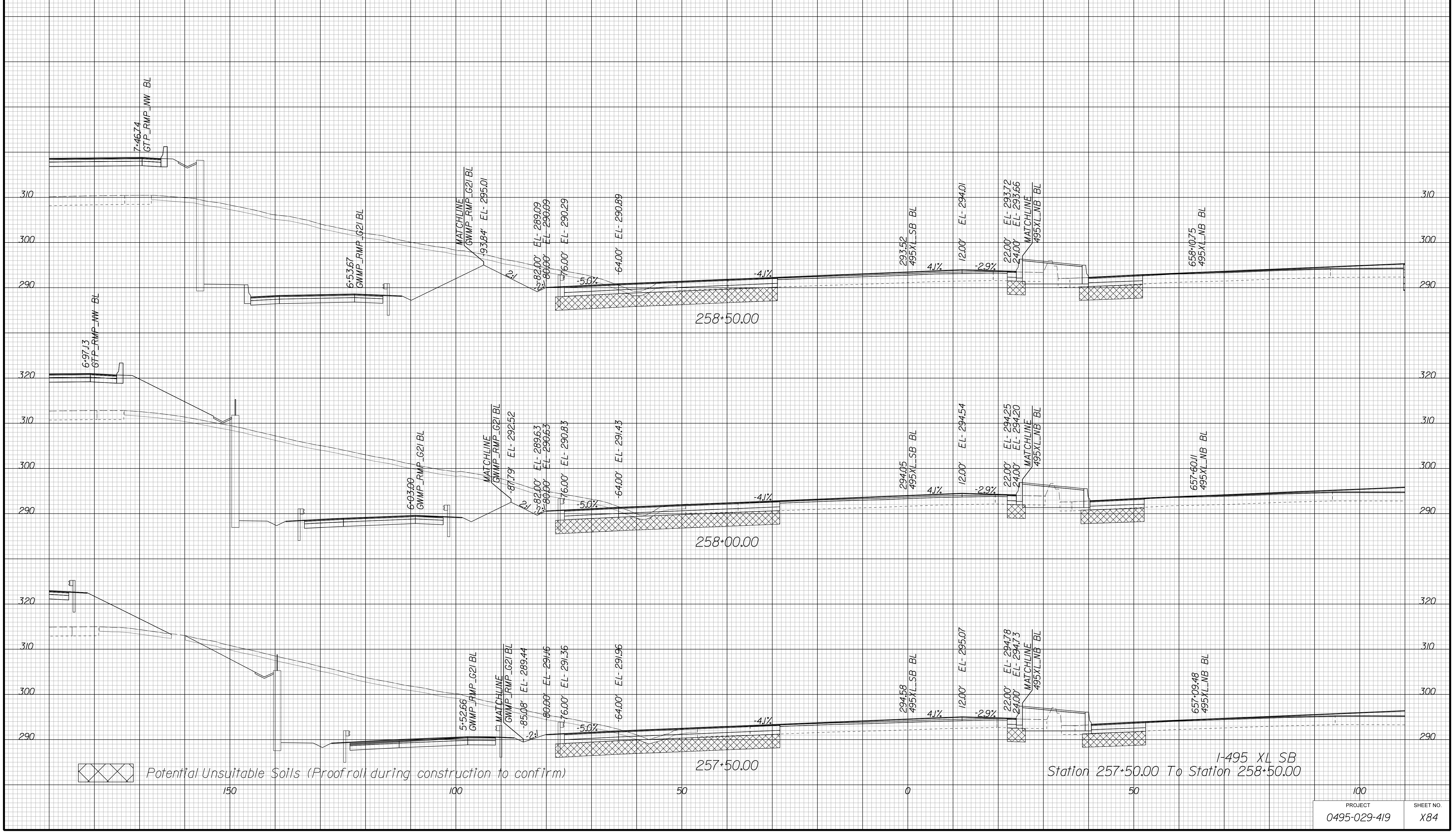
# CROSS SECTIONS

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

REVIS	STATE	ROUTE	STATE PROJECT	SHEET NO.
	VA.	495	0495-029-419	X84

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 SB  
Station 257+50.00 To Station 258+50.00

PROJECT	SHEET NO.
0495-029-419	X84

APPROVED FOR CONSTRUCTION



PROJECT MANAGER VDOT - Bimbal Stab PE (703) 259-2362  
SURVEYED BY, DATE BDA - Nicholas Kougoulis LS (703) 334-0837, 1/2019  
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

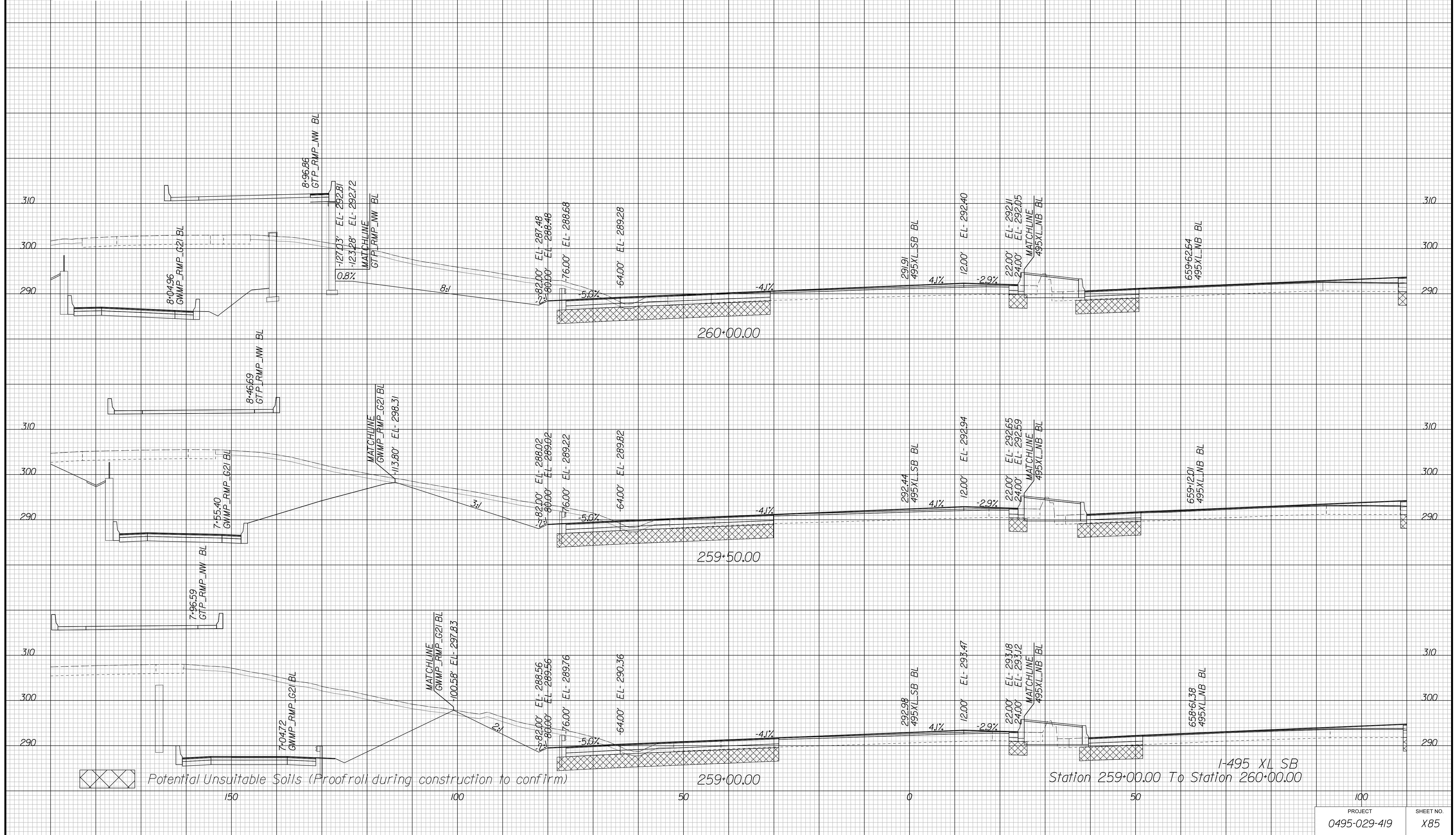
# CROSS SECTIONS

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	X85

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, 1/2019  
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

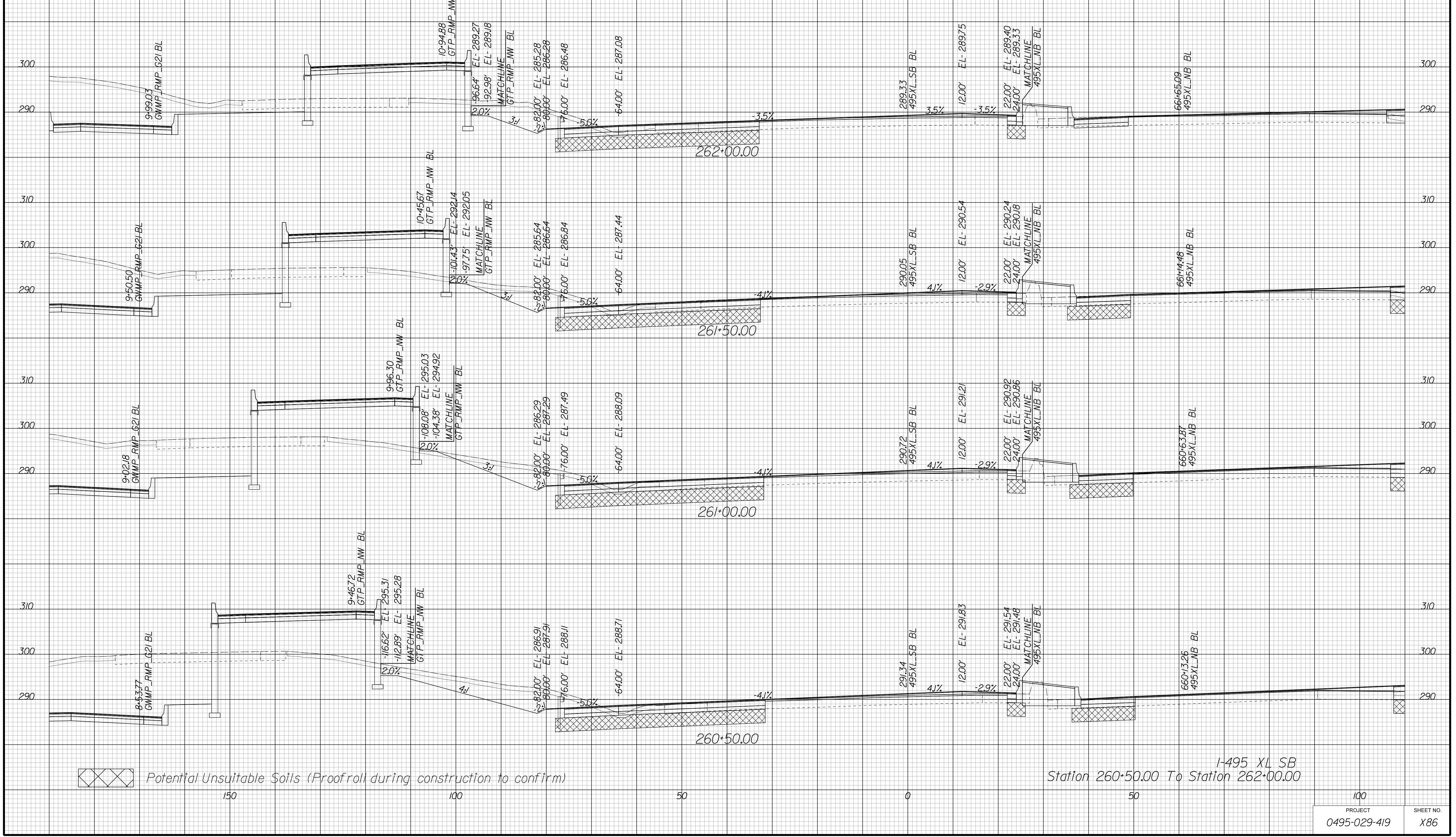
# CROSS SECTIONS

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	X86

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 260+50.00 To Station 262+00.00

PROJECT	SHEET NO.
0495-029-419	X86

APPROVED FOR CONSTRUCTION



PROJECT MANAGER VDOT - Bimbal Stab PE (703) 259-2362  
SURVEYED BY DATE BDA - Nicholas Kougoulis LS (703) 334-0837, 1/2019  
DESIGN BY BDA - Darell 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

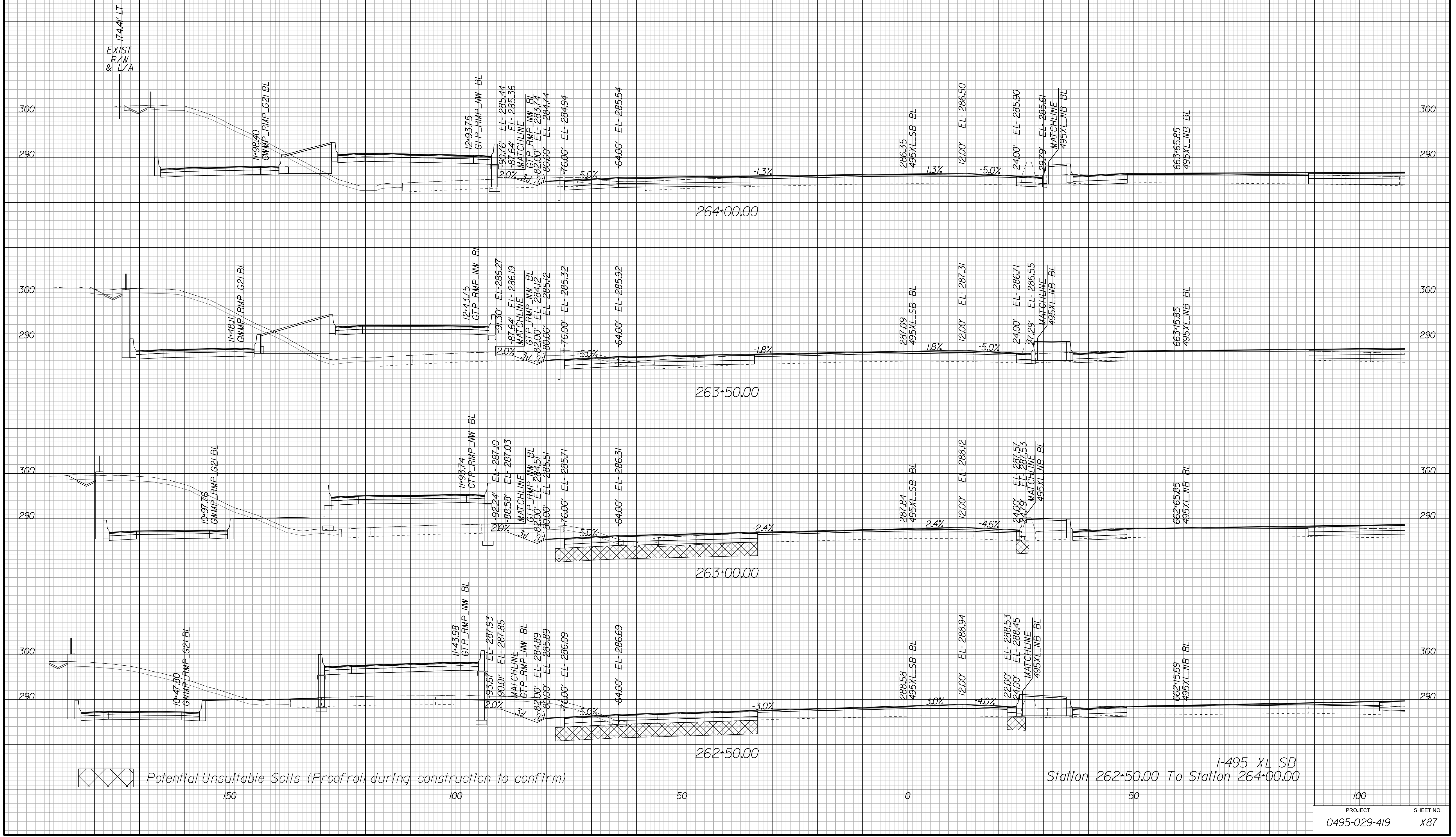
# CROSS SECTIONS

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	X87

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	X87

APPROVED FOR CONSTRUCTION

PROJECT MANAGER VDOT - Bimbal Stab PE (703) 259-2362  
SURVEYED BY DATE BDA - Nicholas Kougioulis LS (703) 334-0837, 1/2019  
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

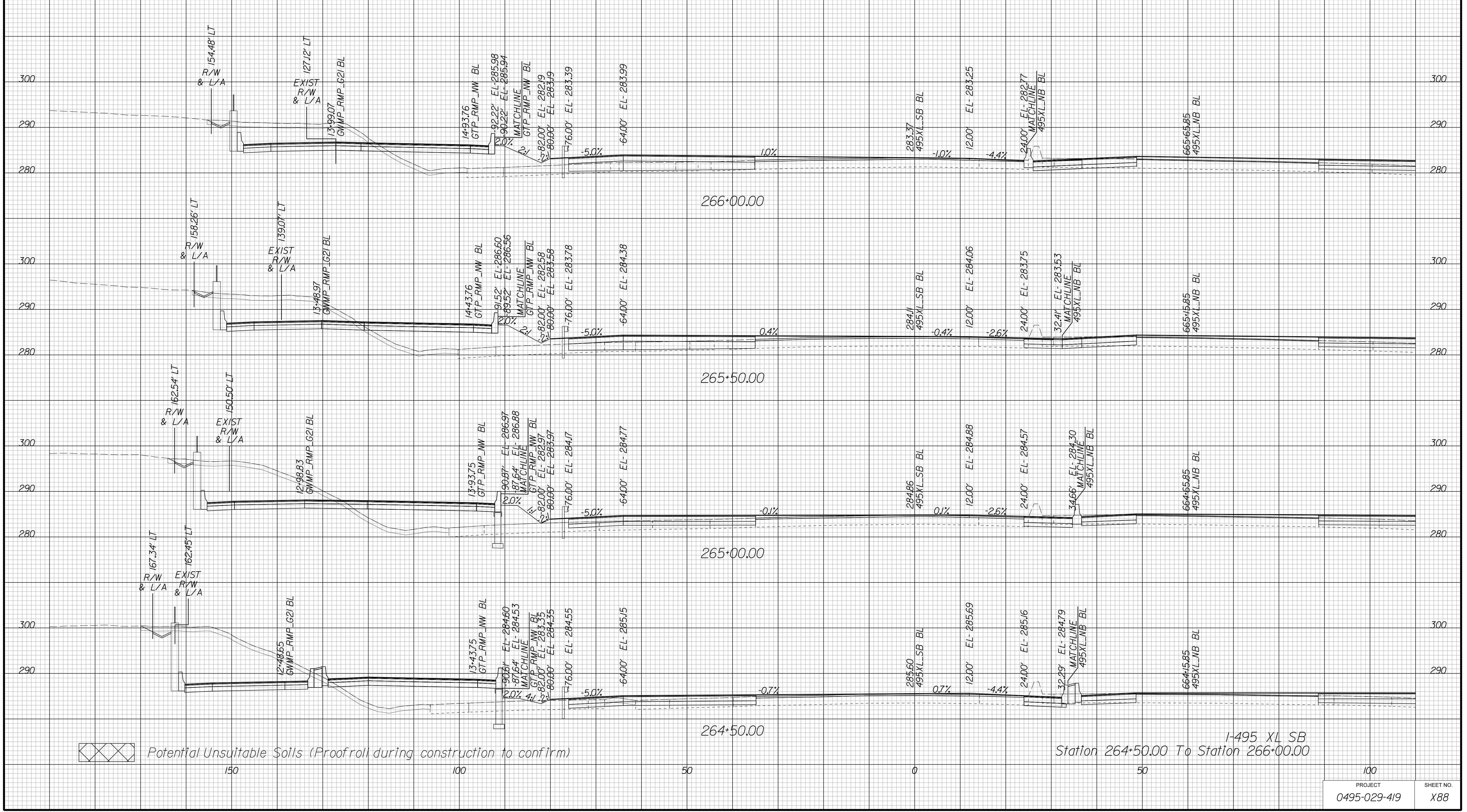
# CROSS SECTIONS

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	X88

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 SB  
Station 264+50.00 To Station 266+00.00

PROJECT	SHEET NO.
0495-029-419	X88

APPROVED FOR CONSTRUCTION



PROJECT MANAGER VDOT - Bimbal Stab PE (703) 259-2362  
SURVEYED BY DATE BDA - Nicholas Kougoulis LS (703) 334-0837, 1/2019  
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

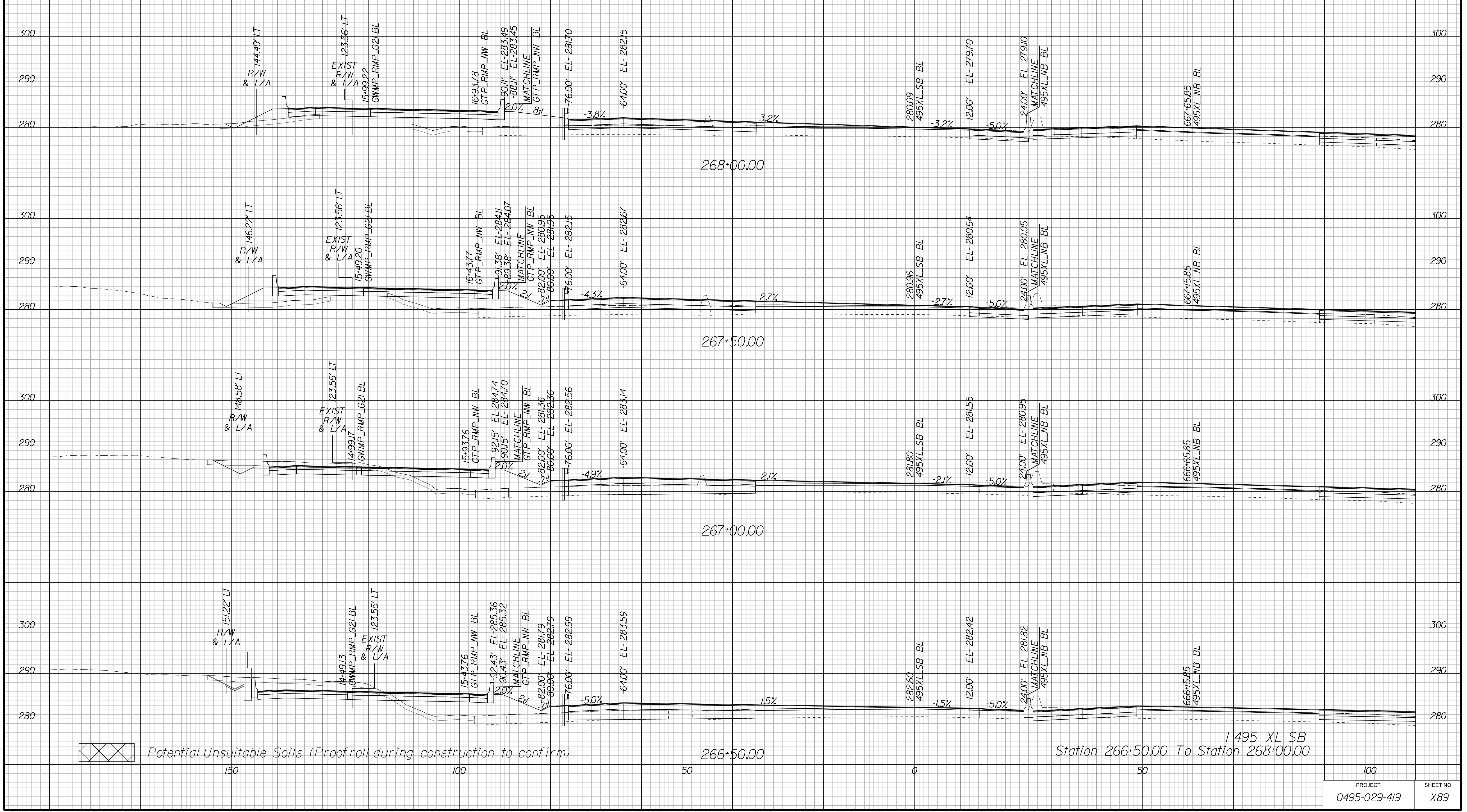
# CROSS SECTIONS

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	X89

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, 1/2019  
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

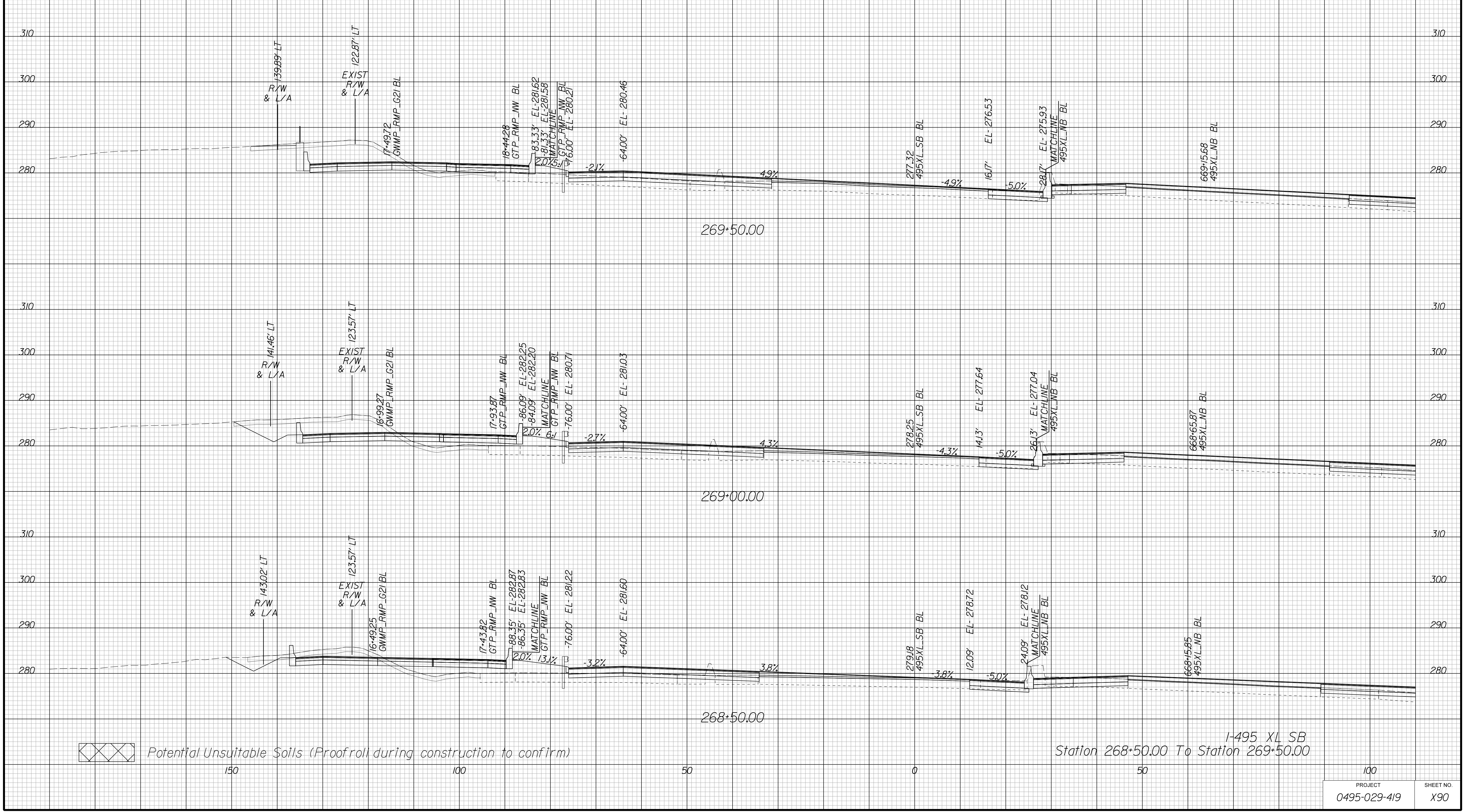
# CROSS SECTIONS

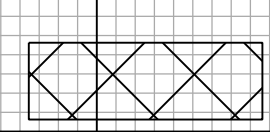
SCALE 1 IN. = 10 FT

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	X90

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 SB  
Station 268+50.00 To Station 269+50.00

APPROVED FOR CONSTRUCTION

PROJECT	SHEET NO.
0495-029-419	X90



PROJECT MANAGER VDOT - Bimal Saha PE (703) 259-2362  
SURVEYED BY DATE BDA - Nicholas Kougioulis LS (703) 334-0837, 1/2019  
DESIGN BY BDA - Darell Eischer BE (703) 334-0823, Dawberly - Ron Jakominich PE (703) 849-0651  
SUBSURFACE UTILITY BY DATE Accumar - Michael Taylor LS (703) 635-3060, 12/2021

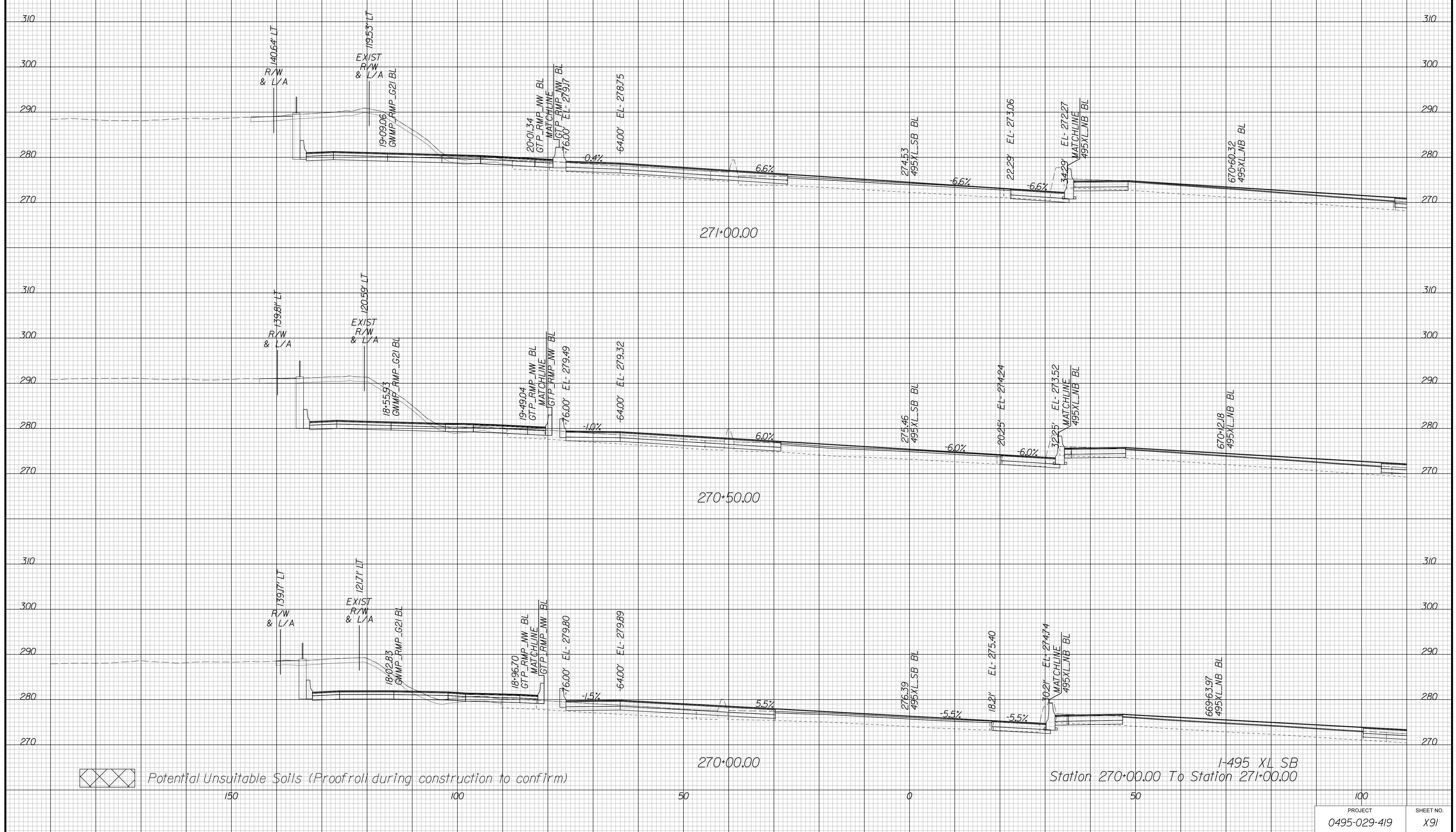
# CROSS SECTIONS

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	X91

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, 1/2019  
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

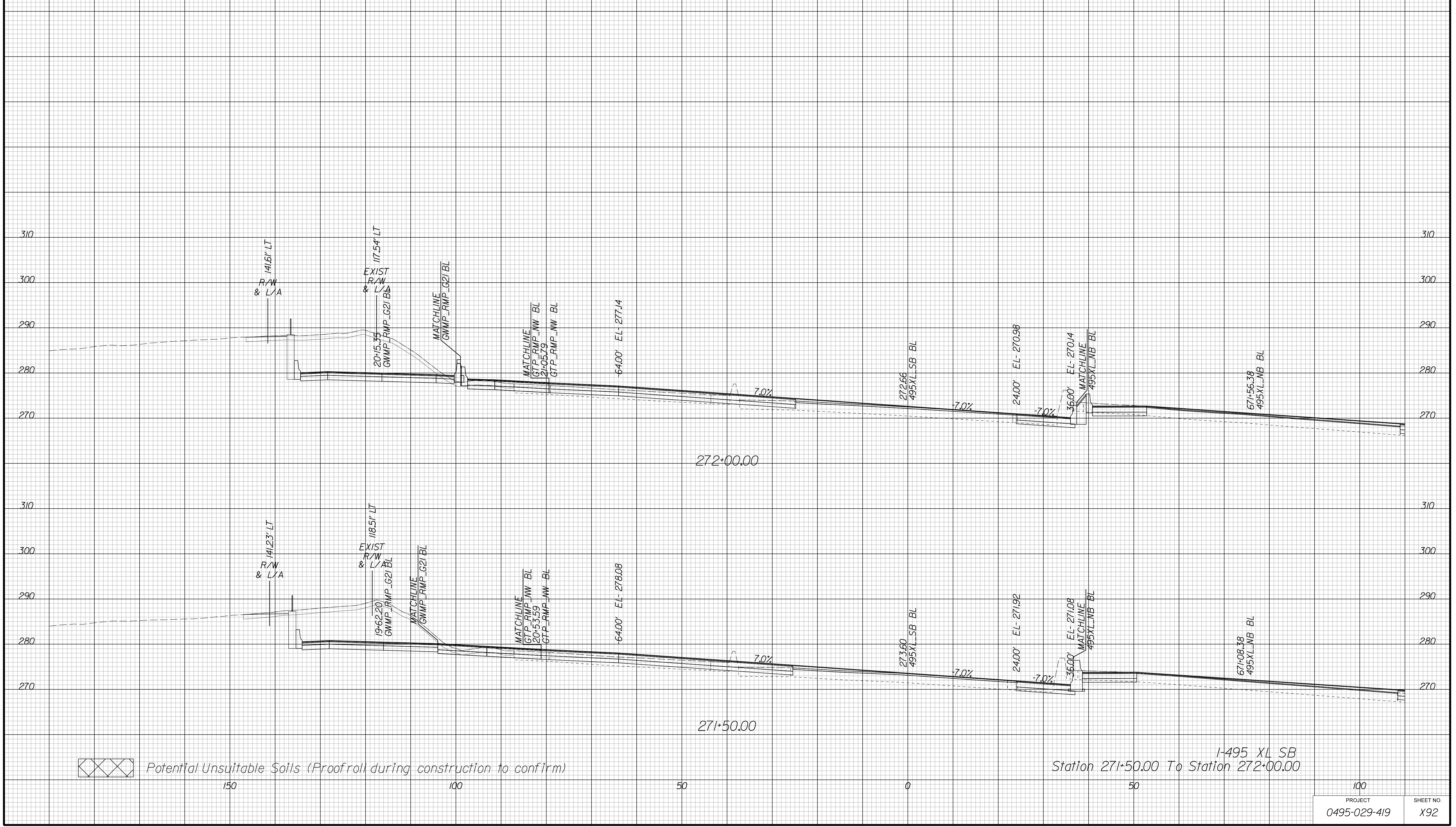
# CROSS SECTIONS

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	X92

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, 1/2019  
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

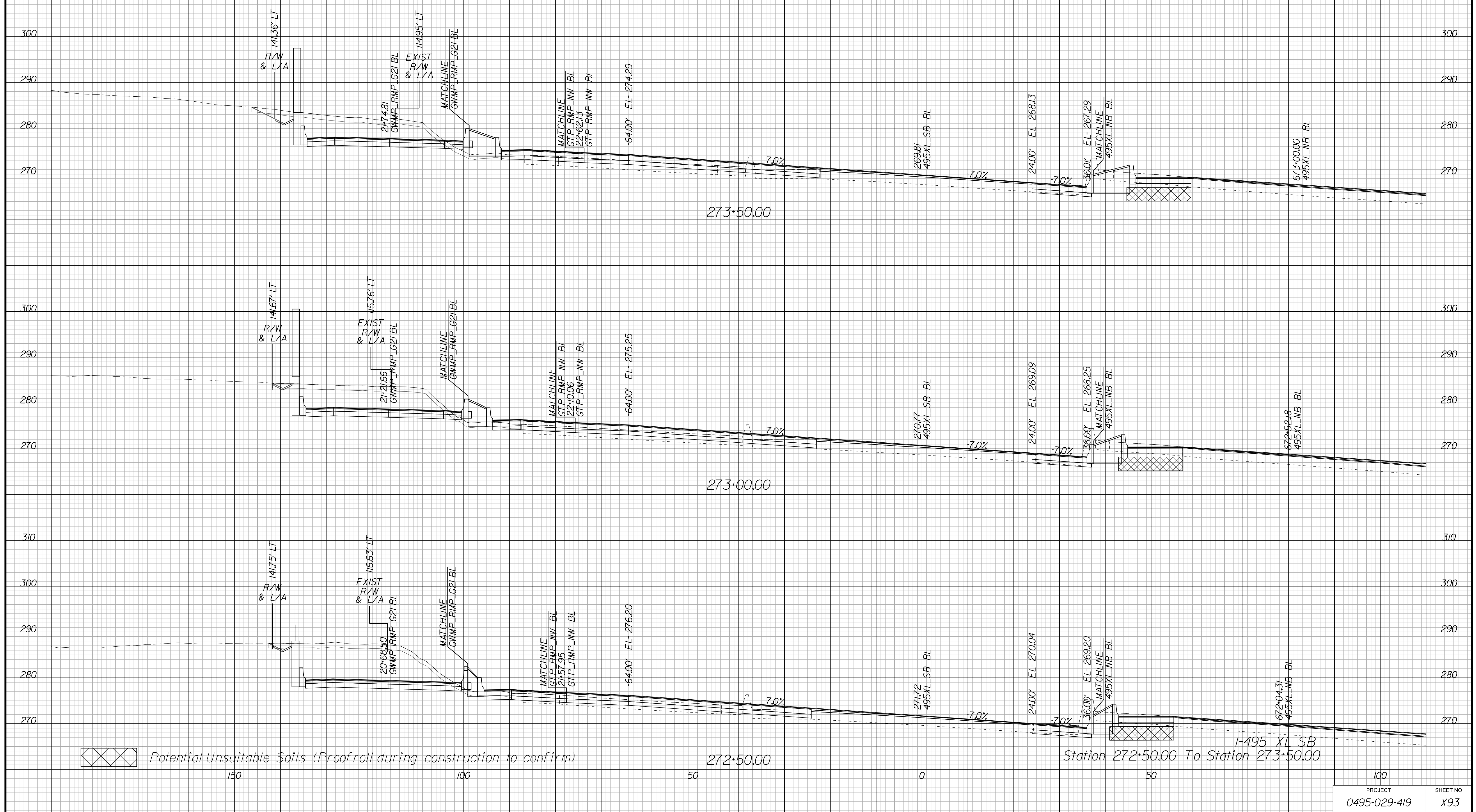
# CROSS SECTIONS

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	X93

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 Kougoullis LS (703) 334-0837, 1/2019  
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

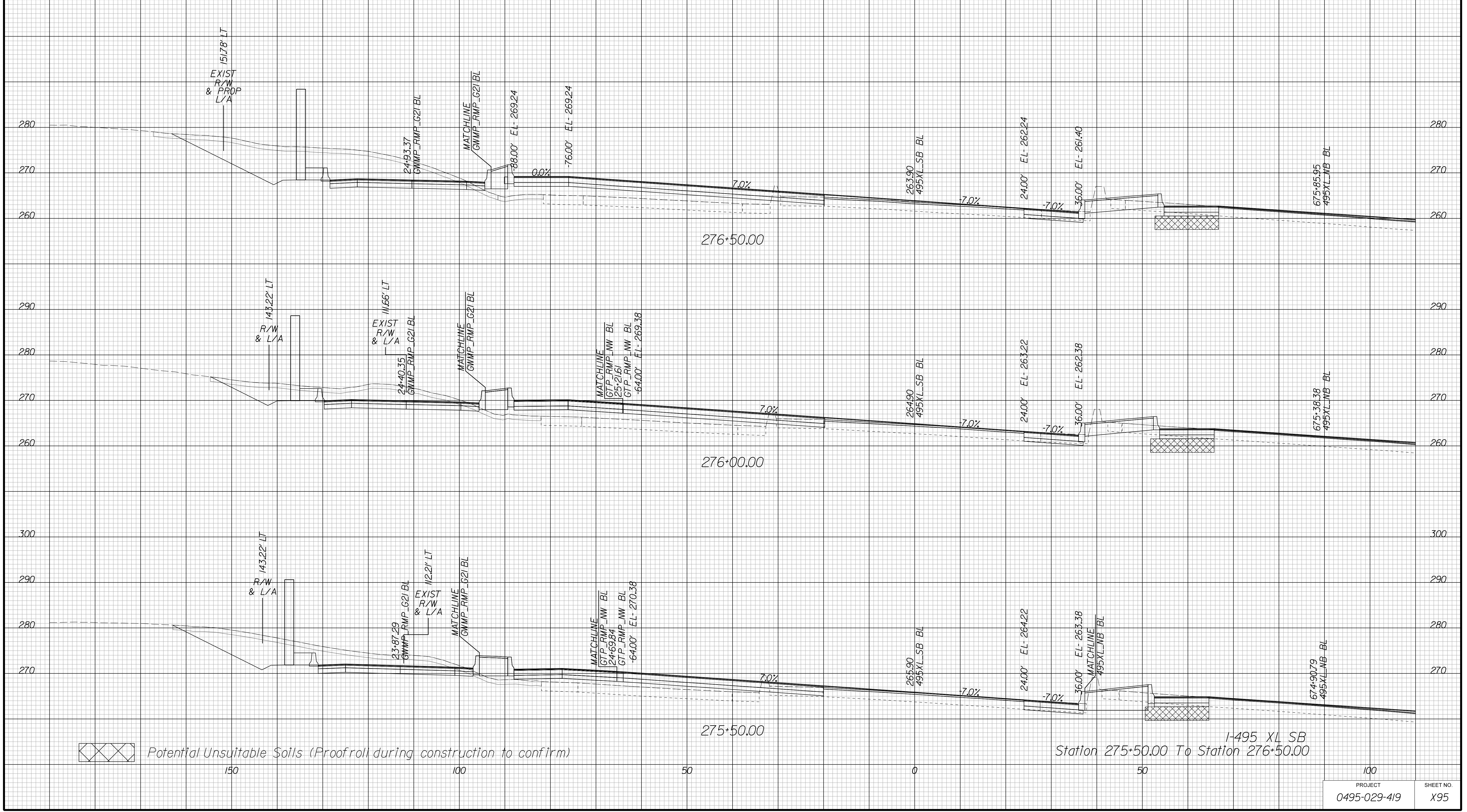
# CROSS SECTIONS

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	X95

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

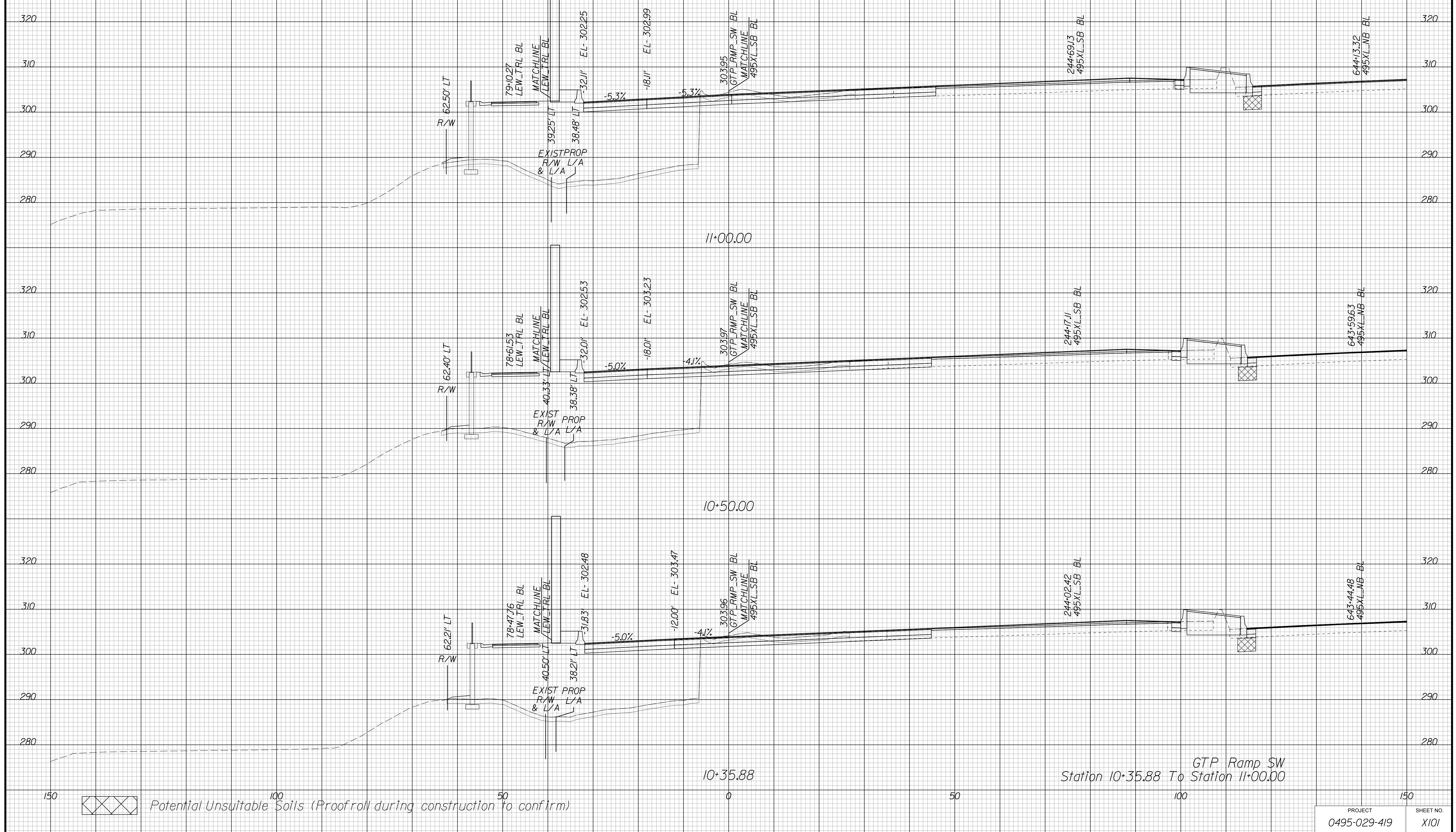
# CROSS SECTIONS

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	X101 AREA 3

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

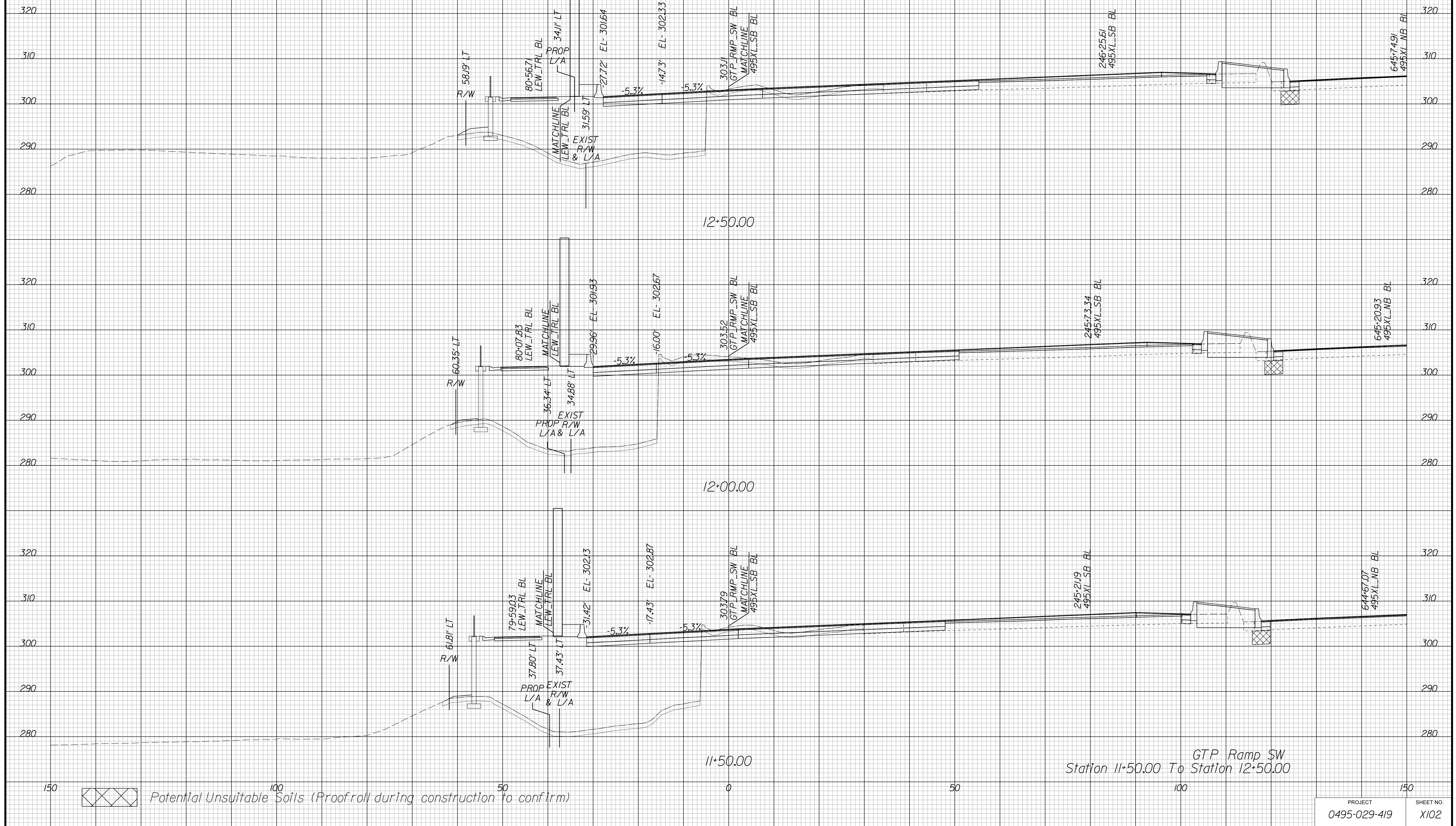
# CROSS SECTIONS

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	X102 AREA 3

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, Dexbery - Ron Jakominich PE (703) 849-0651  
SUBSURFACE UTILITY BY DATE Accurmark - Michael Taylor LS (703) 635-3060, 12/2021

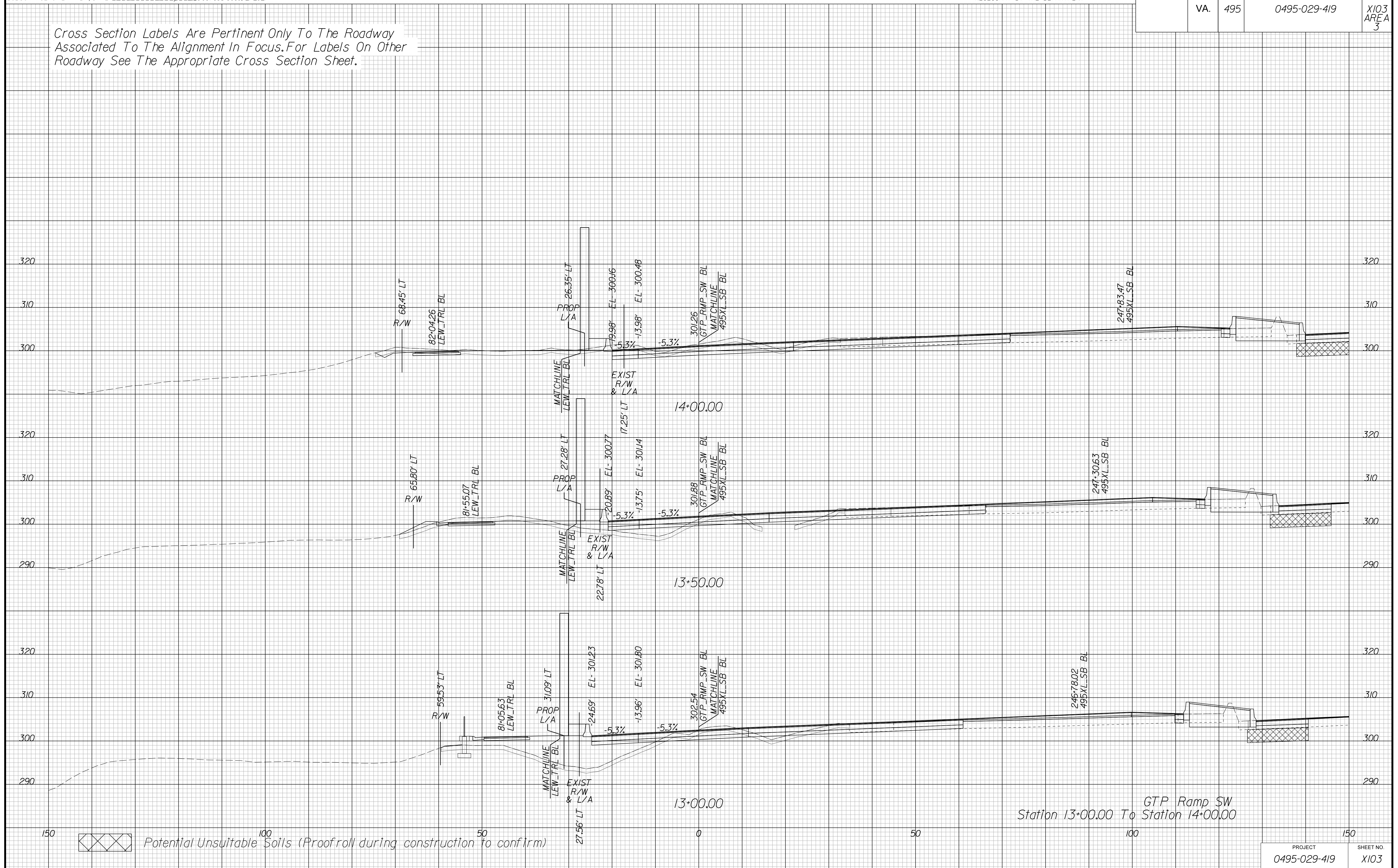
# CROSS SECTIONS

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 3

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.



GTP Ramp SW Station 13+00.00 To Station 14+00.00

PROJECT	SHEET NO.
0495-029-419	X103

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 3

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.



GTP Ramp SW  
Station 14+50.00 To Station 16+00.00

150 100 50 0 50 100 150  
Potential Unsuitable Soils (Proofroll during construction to confirm)

PROJECT	SHEET NO.
0495-029-419	X104

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 Accumark - Michael Taylor LS (703) 635-3060, 12/2021

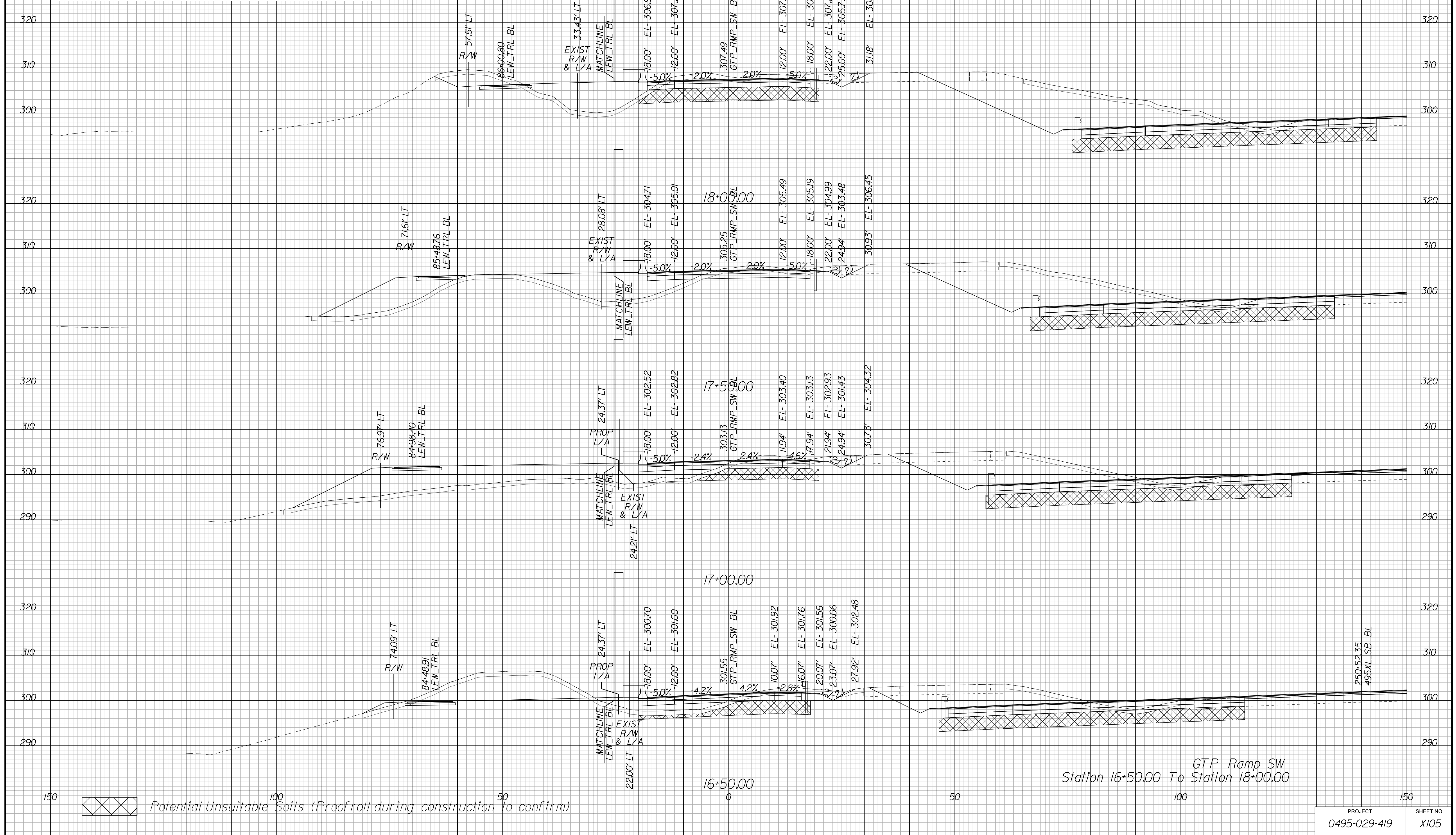
# CROSS SECTIONS

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	X105 AREA 3

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.



GTP Ramp SW  
Station 16+50.00 To Station 18+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 - Darell 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

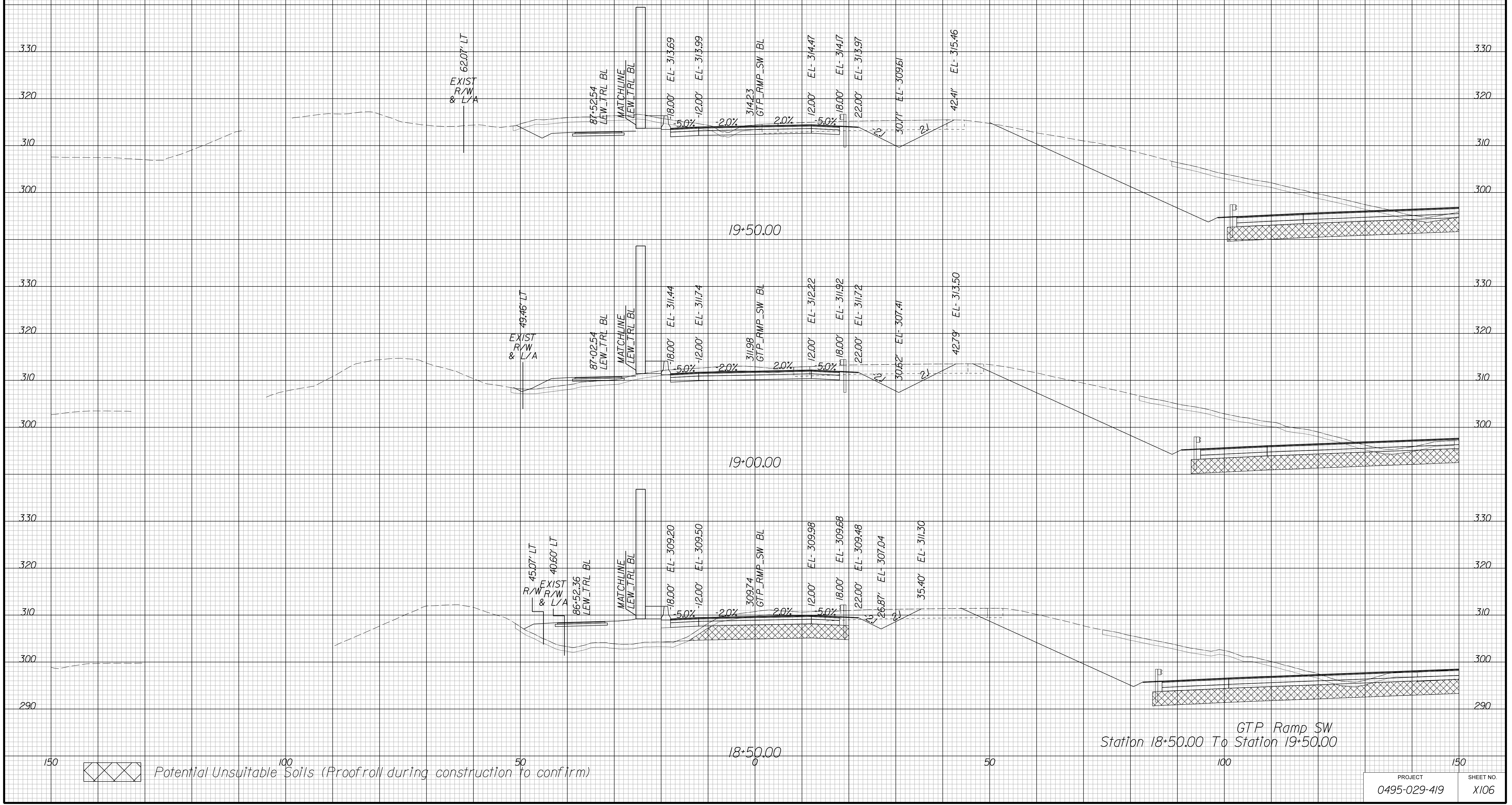
# CROSS SECTIONS

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	X106 AREA 3

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, 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	X107 AREA 3

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

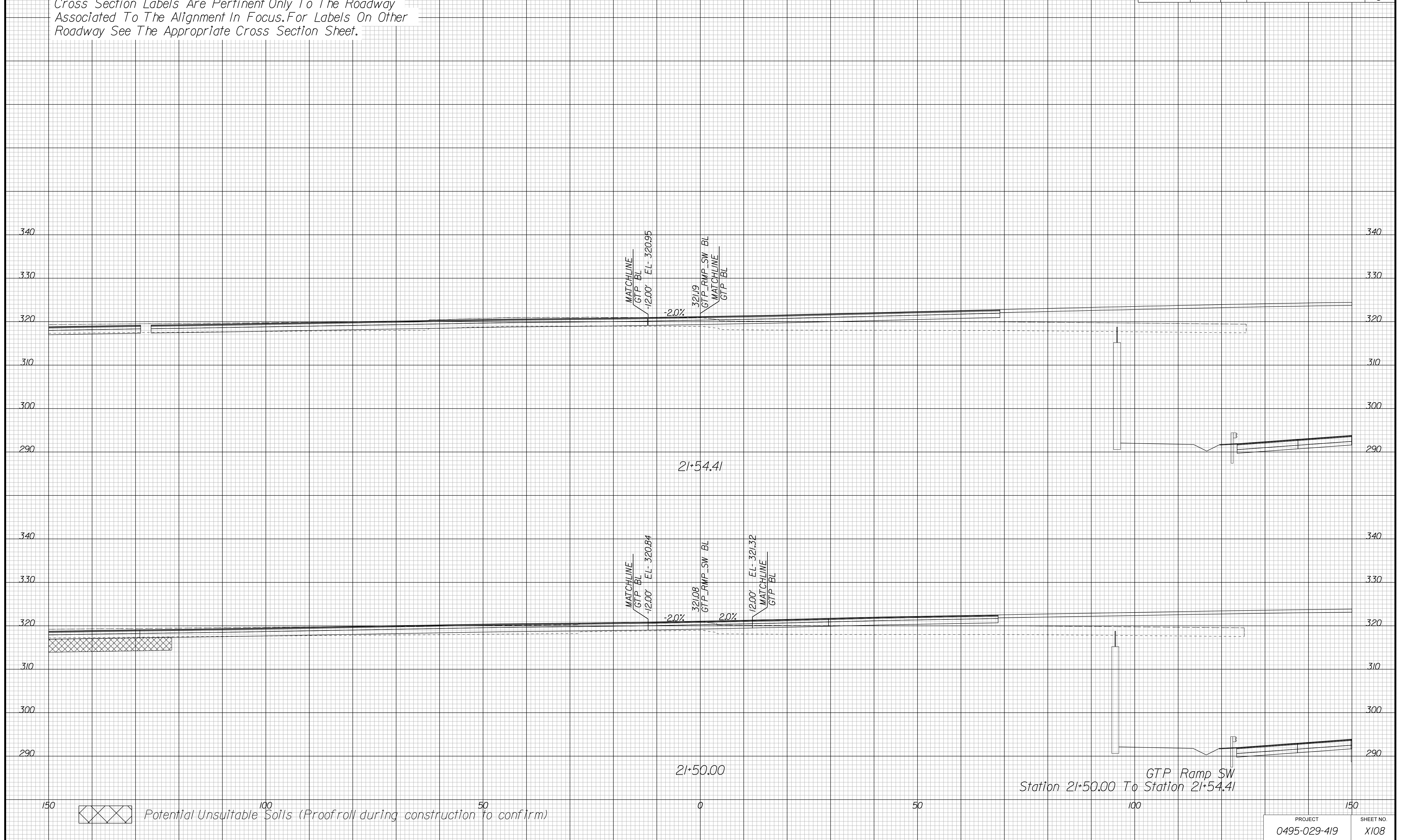
# CROSS SECTIONS

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	X108 AREA 3

*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 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

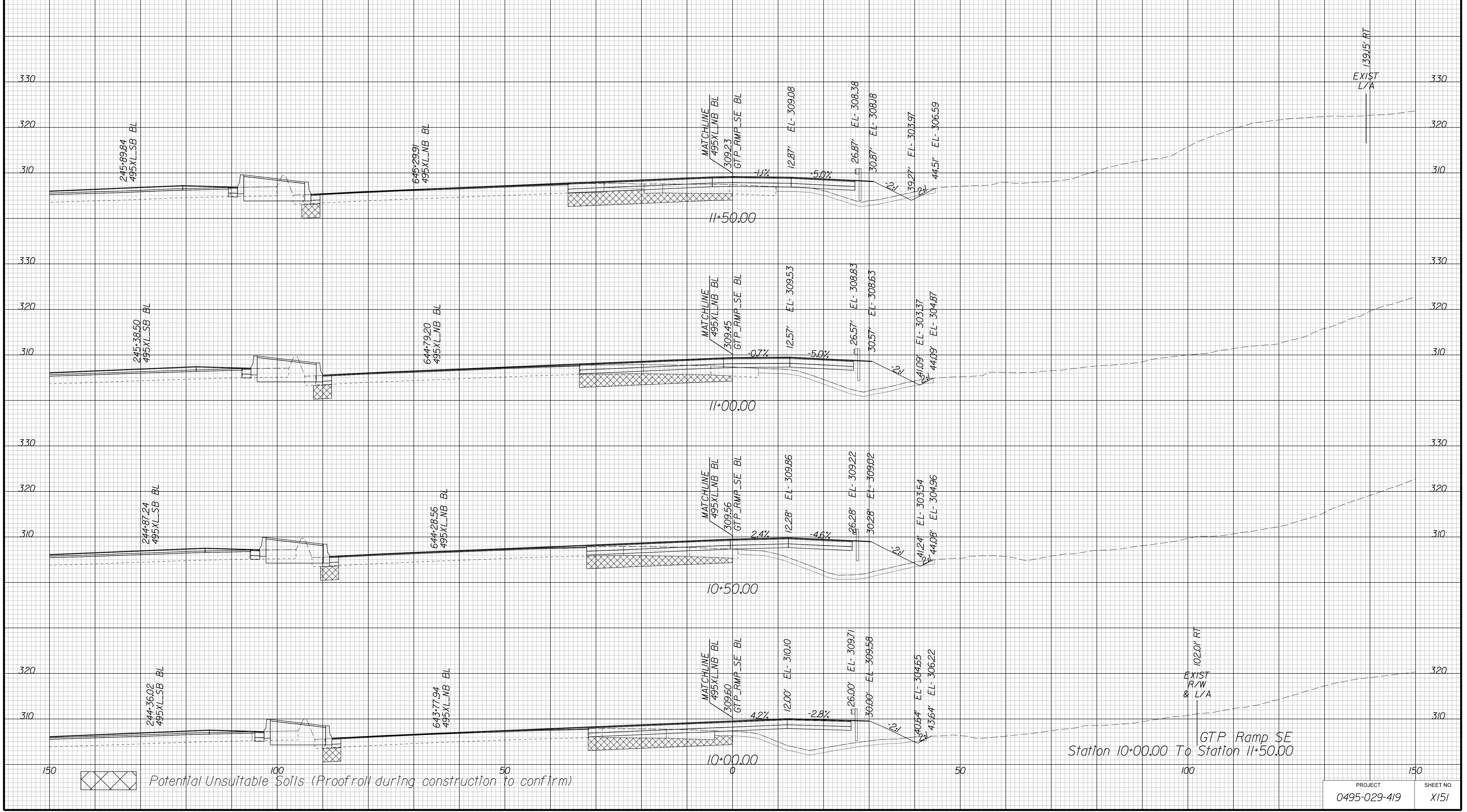
# CROSS SECTIONS

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	X15/ AREA 3

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, Dexberry - Ron Jakominich PE (703) 849-0651  
SUBSURFACE UTILITY BY DATE Accurmark - Michael Taylor LS (703) 635-3060, 12/2021

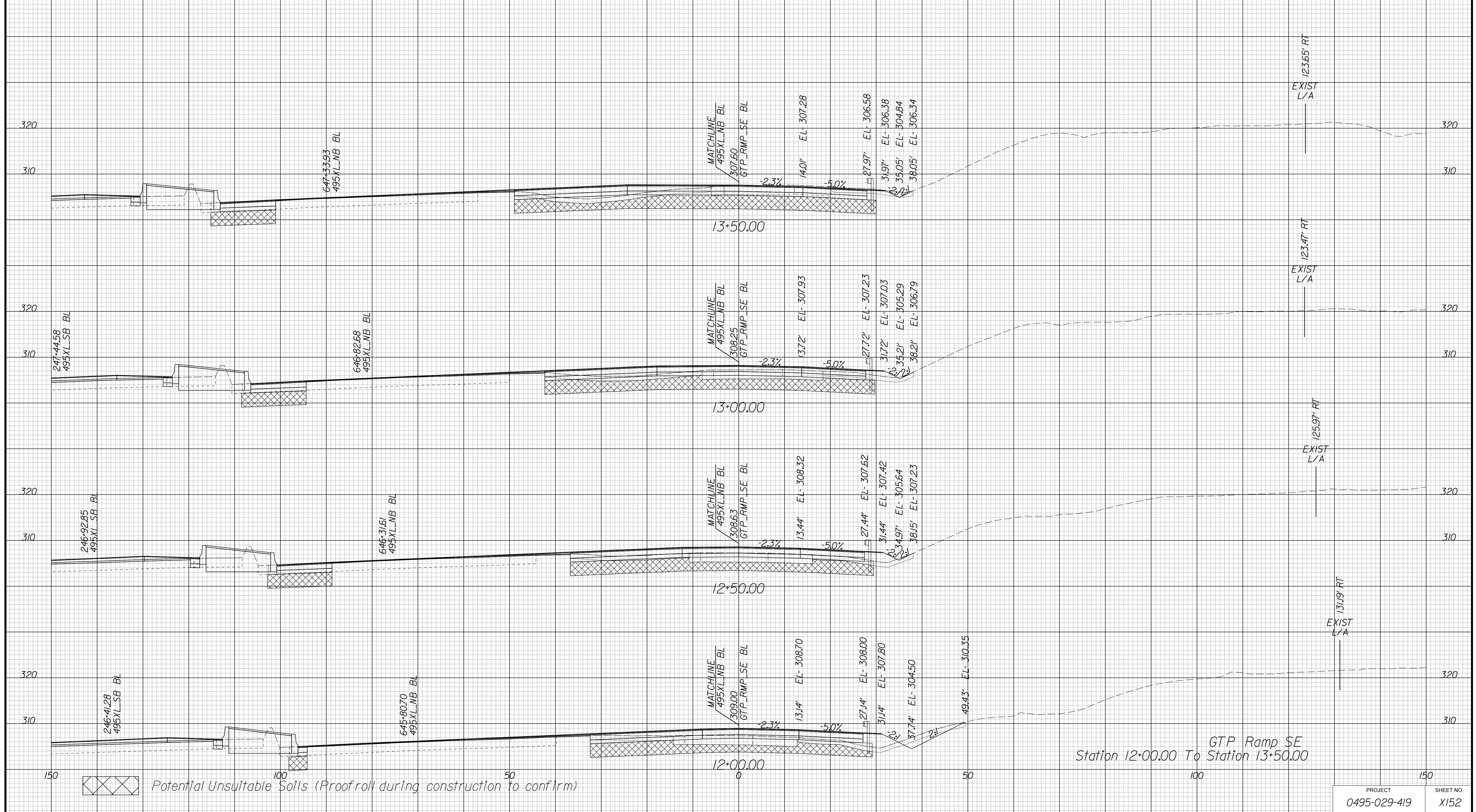
# CROSS SECTIONS

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	X152 AREA 3

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

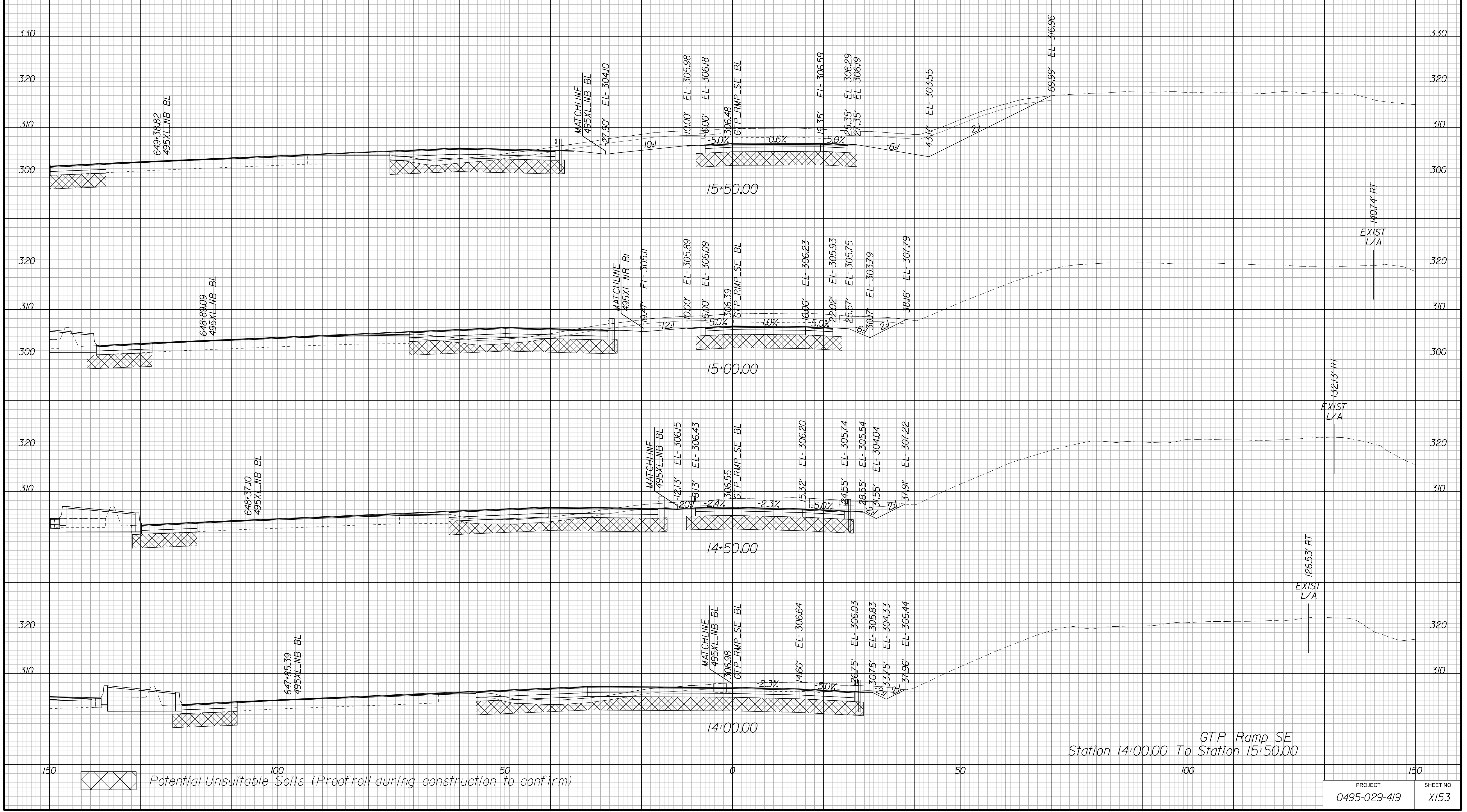
# CROSS SECTIONS

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	X153 AREA 3

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.



GTP Ramp SE  
Station 14+00.00 To Station 15+50.00

PROJECT	SHEET NO.
0495-029-419	X153

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, Dawbergy - Ron Jakominich PE (703) 849-0651  
SUBSURFACE UTILITY BY DATE Accurmark - Michael Taylor LS (703) 635-3060, 12/2021

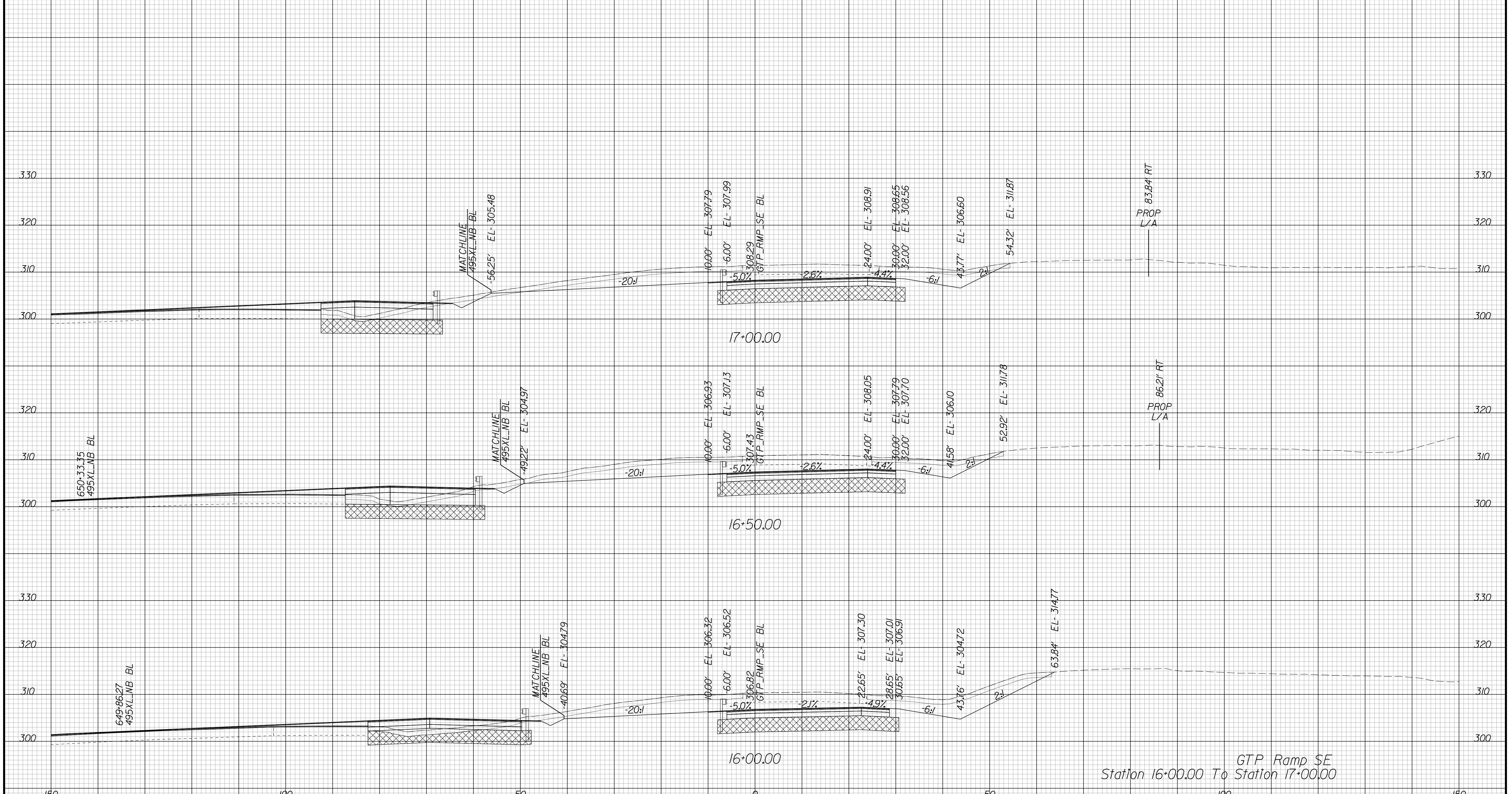
# CROSS SECTIONS

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	X154 AREA 3

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

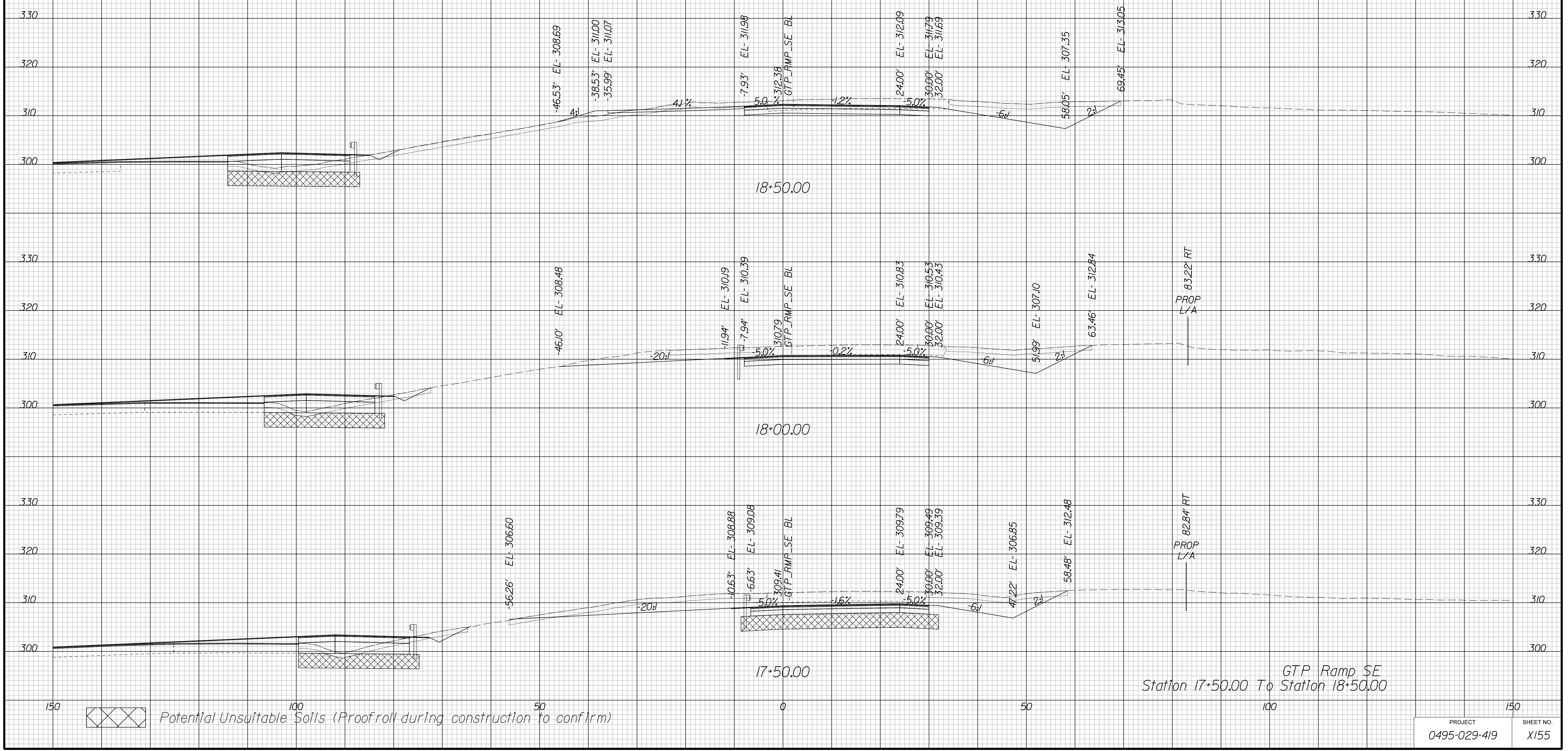
# CROSS SECTIONS

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	X155 AREA 3

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, Dexberry - Ron Jakominich PE (703) 849-0651  
SUBSURFACE UTILITY BY DATE Accurmark - Michael Taylor LS (703) 635-3060, 12/2021

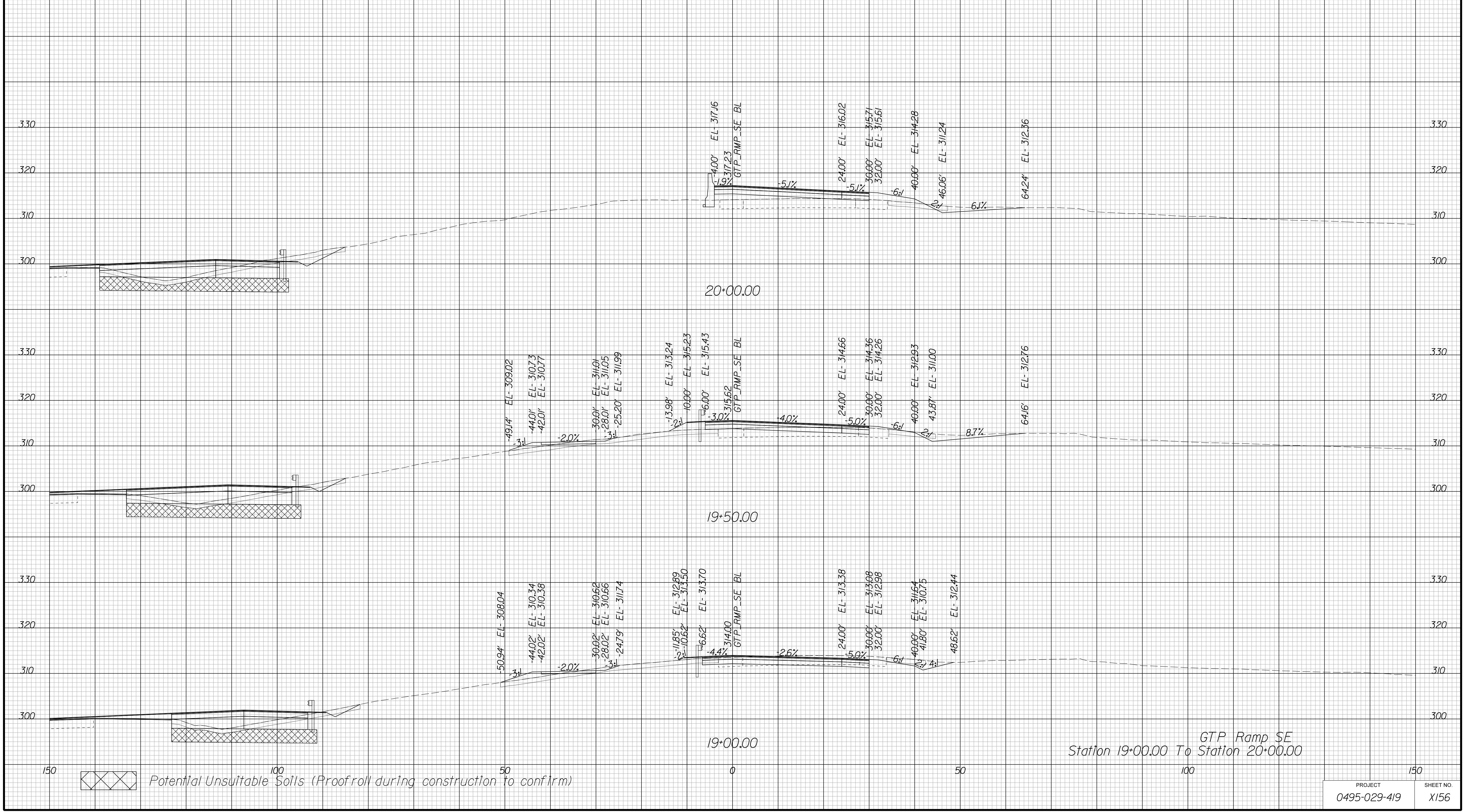
# CROSS SECTIONS

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	X156 AREA 3

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

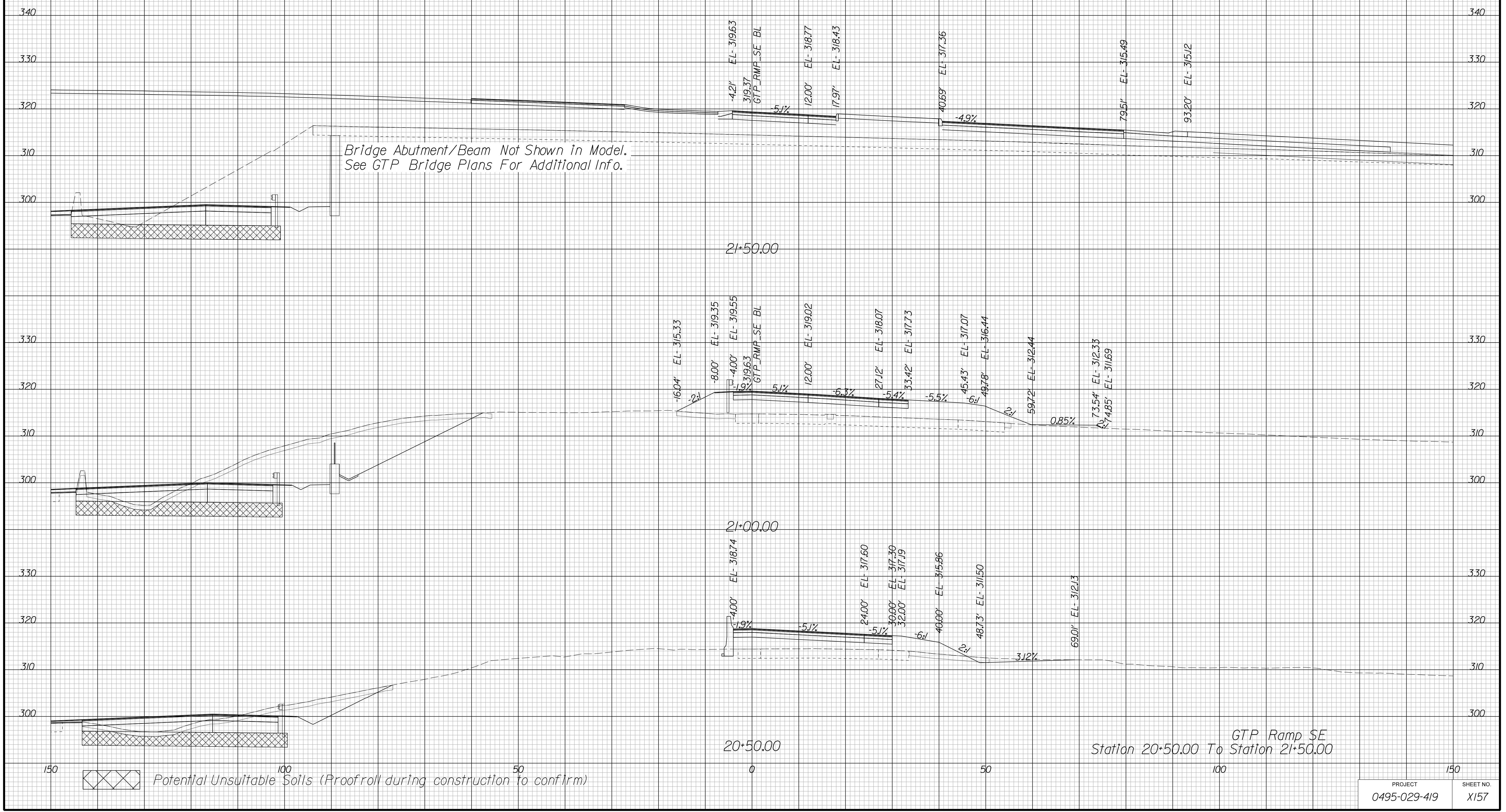
SCALE 1 IN. = 10 FT

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	X157 AREA 3

*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.*

*Bridge Abutment/Beam Not Shown in Model. See GTP Bridge Plans For Additional Info.*



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

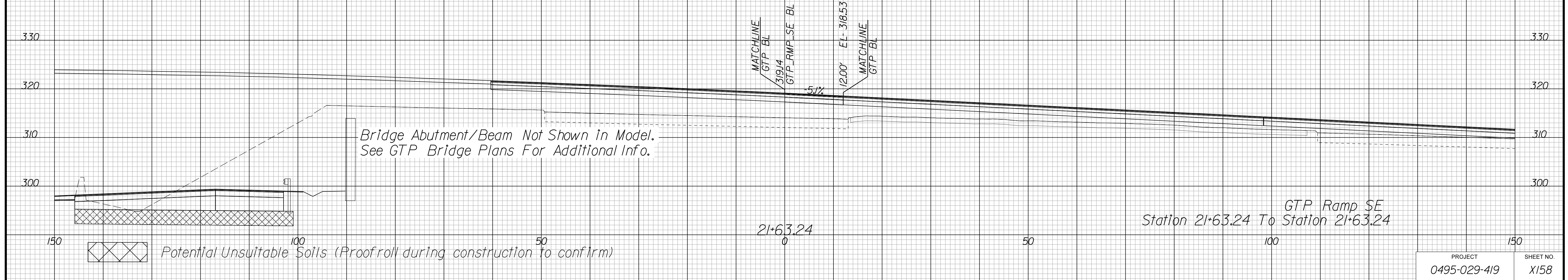
# CROSS SECTIONS

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	X158 AREA 3

*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	X158

APPROVED FOR CONSTRUCTION

PROJECT MANAGER VDOT - Bipal Sab PE (703) 259-2362  
SURVEYED BY DATE BDA - Nicholas Kougoulis LS (703) 334-0837, 1/2019  
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

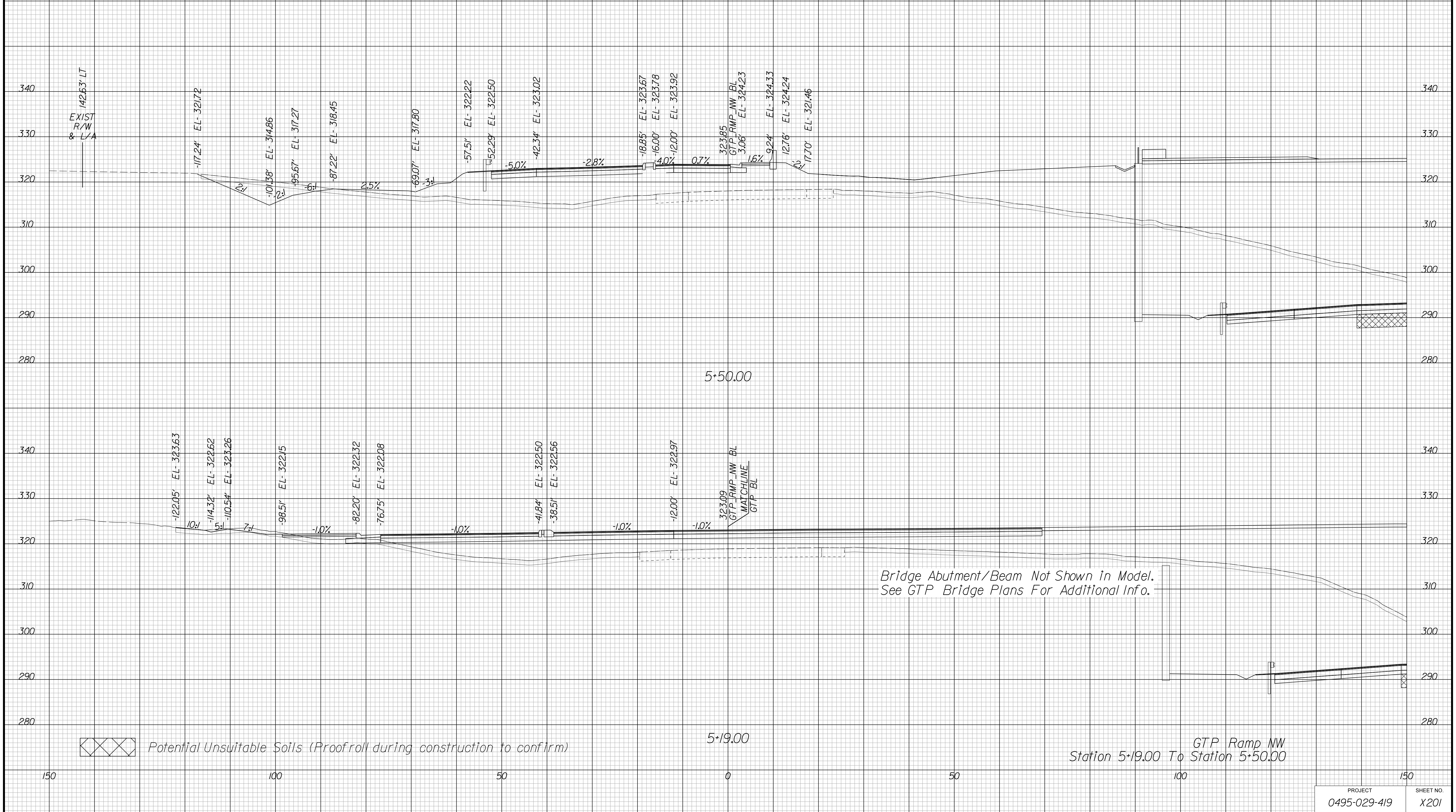
# CROSS SECTIONS

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	X201

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, 1/2019  
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

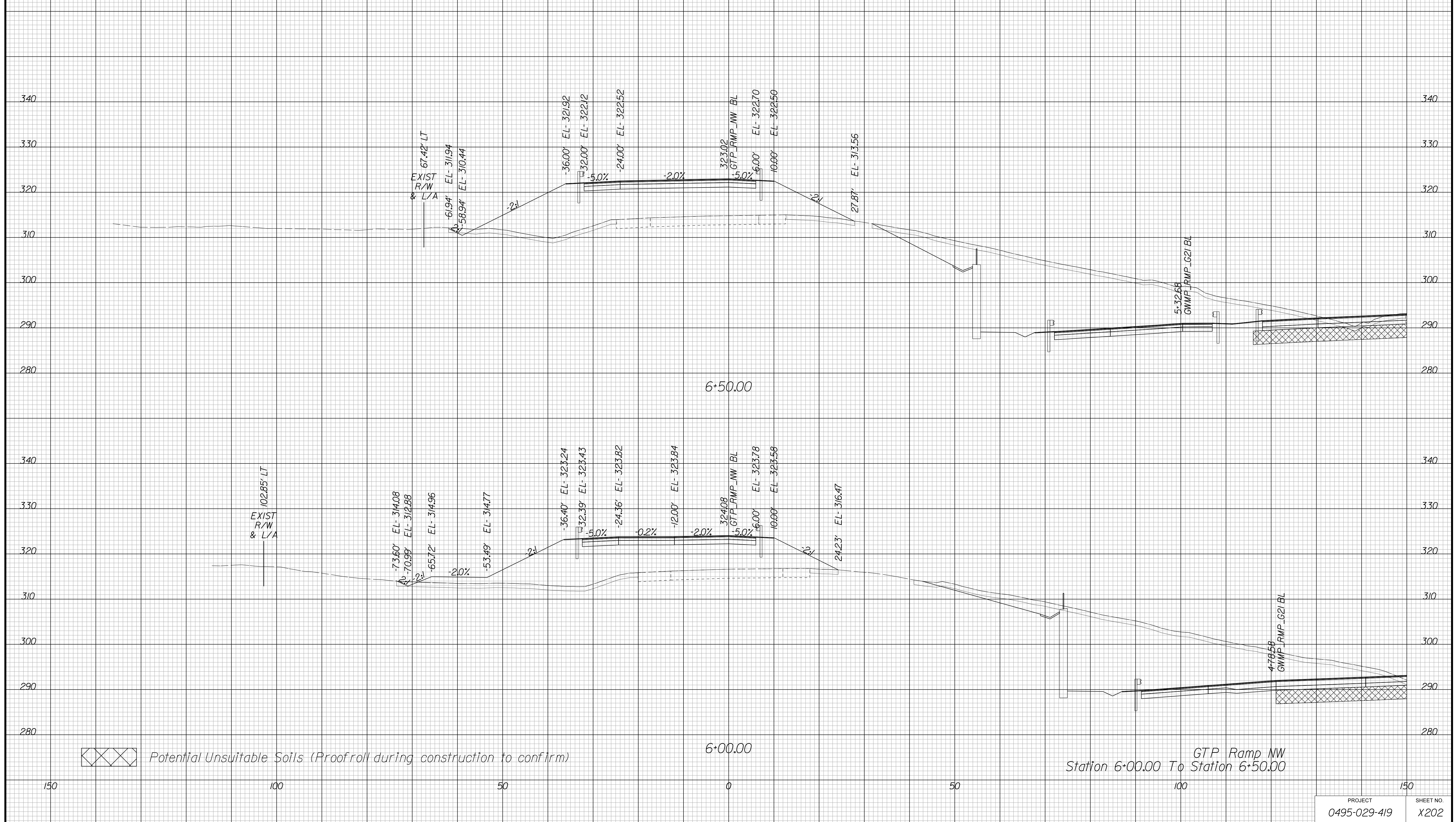
# CROSS SECTIONS

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

REVISION	STATE	ROUTE	STATE PROJECT	SHEET NO.
	VA.	495	0495-029-419	X202

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, 1/2019  
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

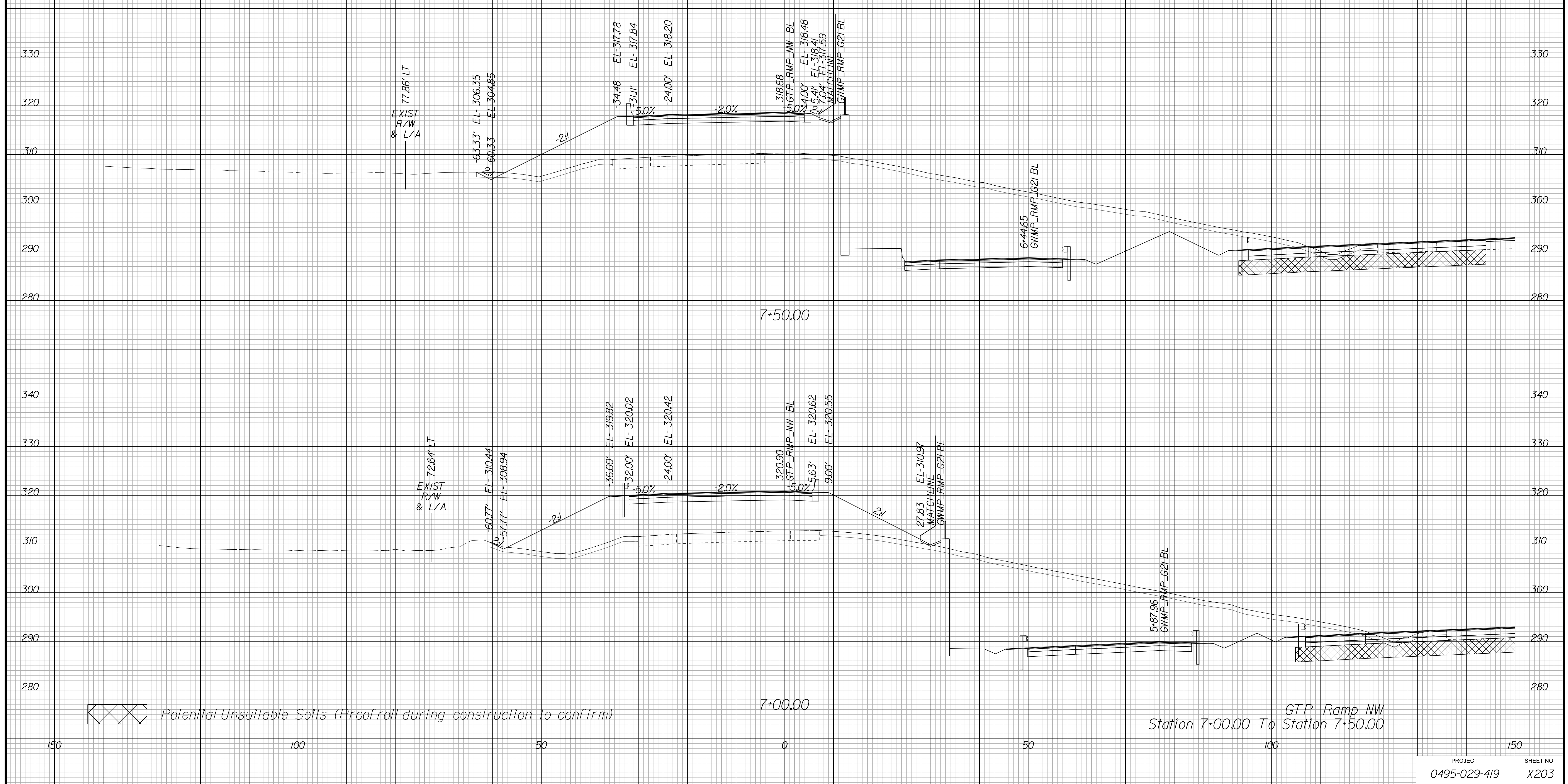
SCALE 1 IN. = 10 FT

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	X203

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-638 Sta. 7+55.66



APPROVED FOR CONSTRUCTION



PROJECT MANAGER VDOT - Bipal Shah, PE, (703) 259-2362  
SURVEYED BY, DATE BDA - Nicholas Kougoulis, LS, (703) 334-0837, 1/2019  
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

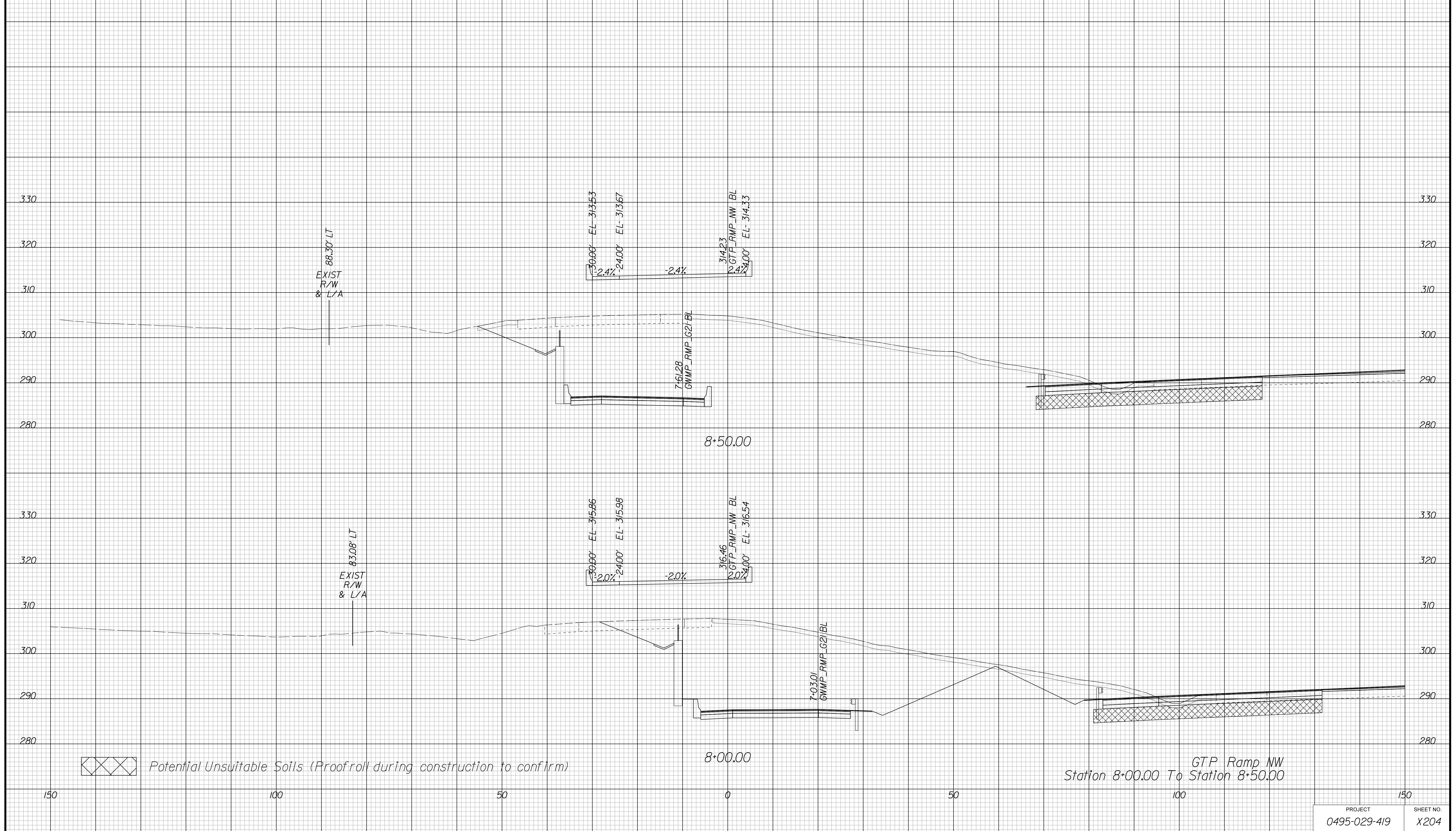
# CROSS SECTIONS

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	X204

*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, 1/2019  
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

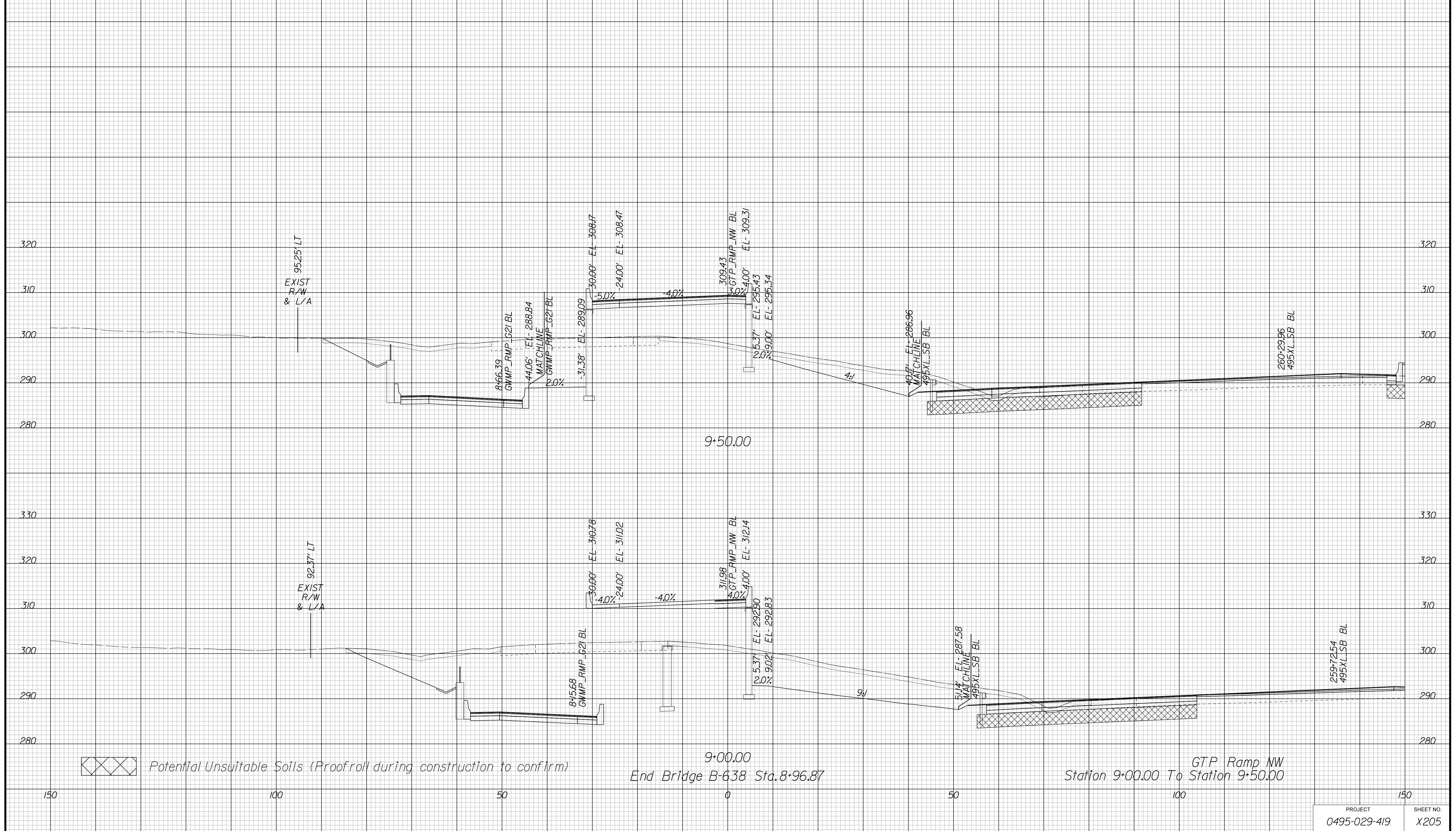
# CROSS SECTIONS

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	X205

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, 1/2019  
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

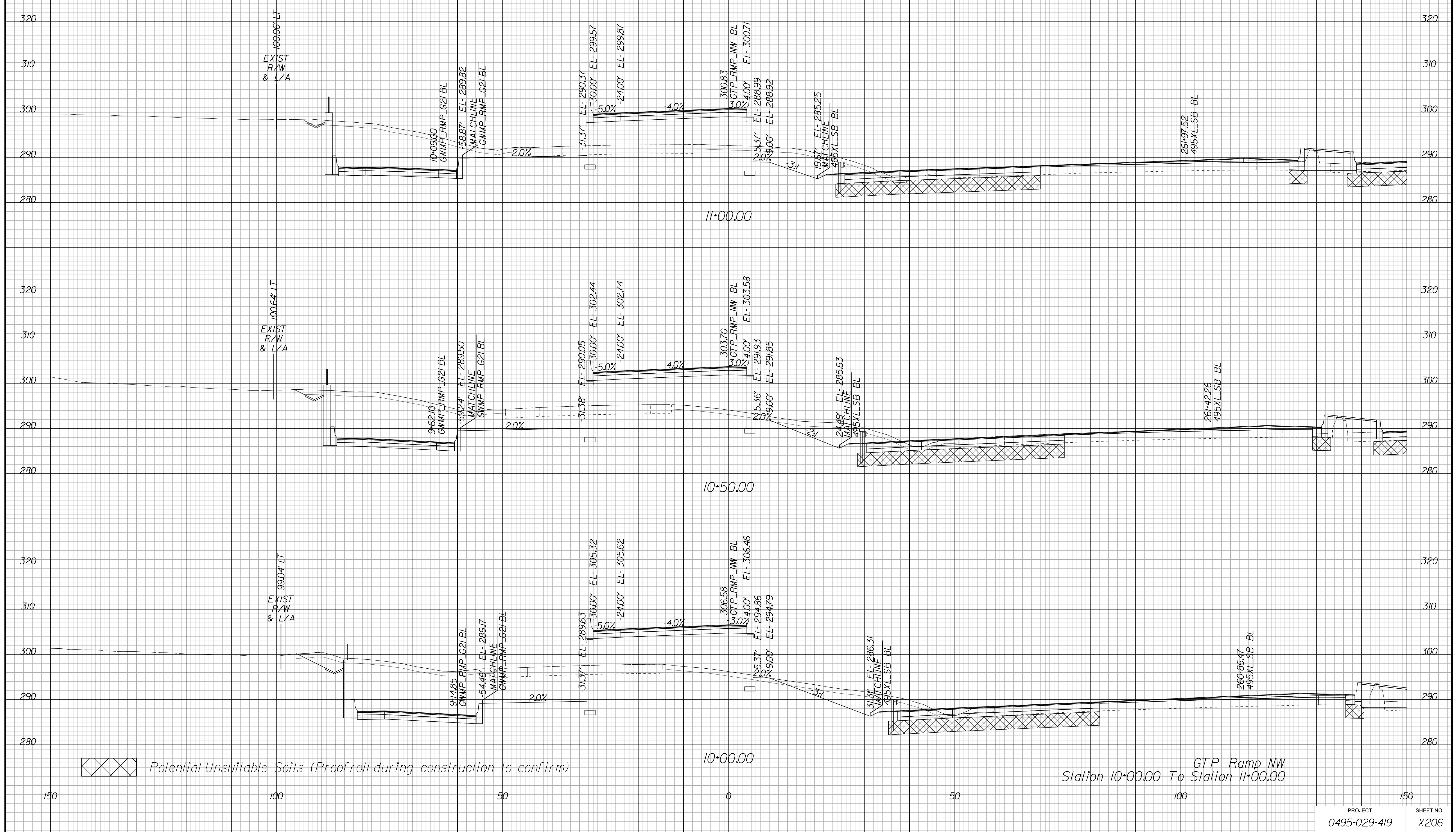
# CROSS SECTIONS

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	X206

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, 1/2019  
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

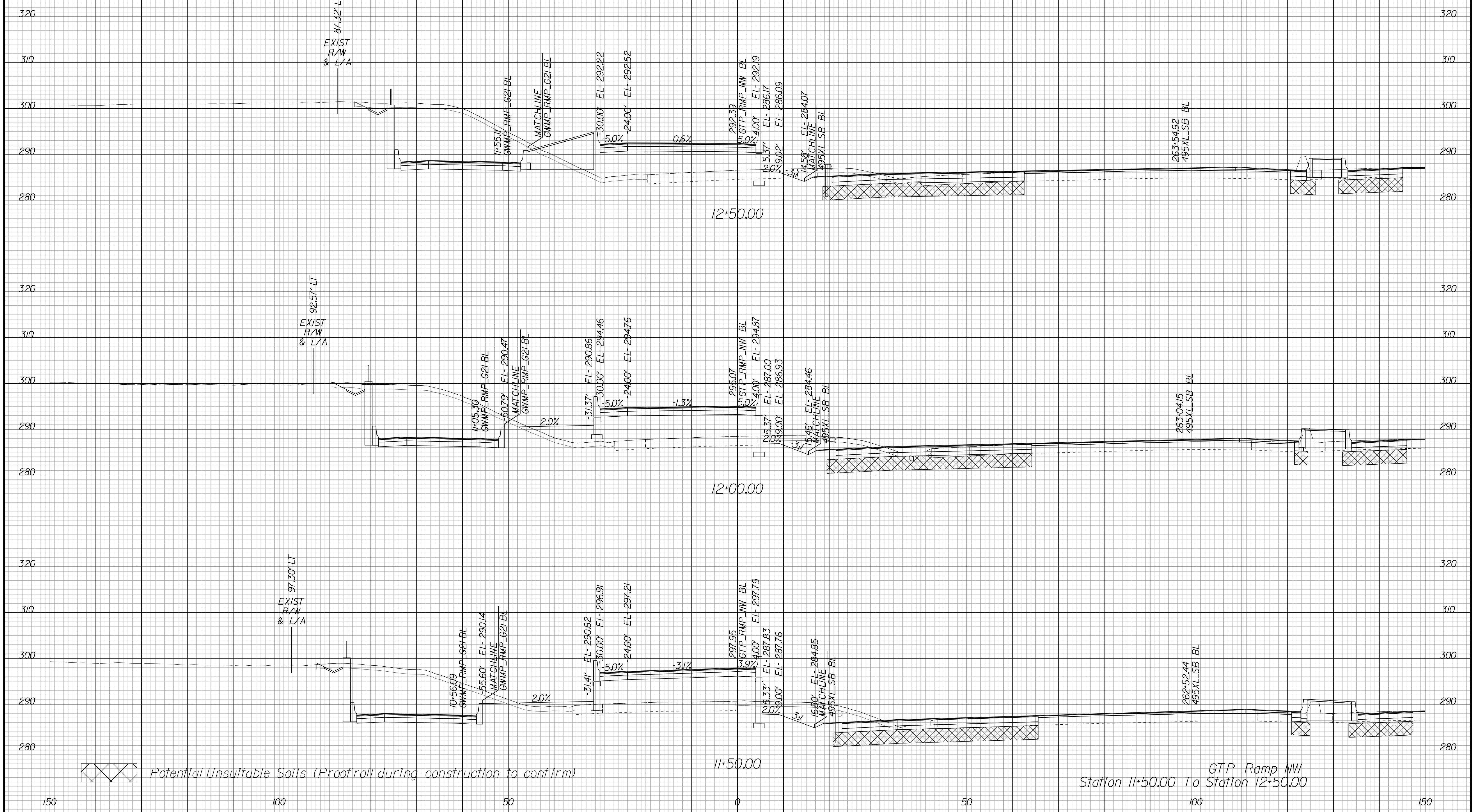
# CROSS SECTIONS

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	X207

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, 1/2019  
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

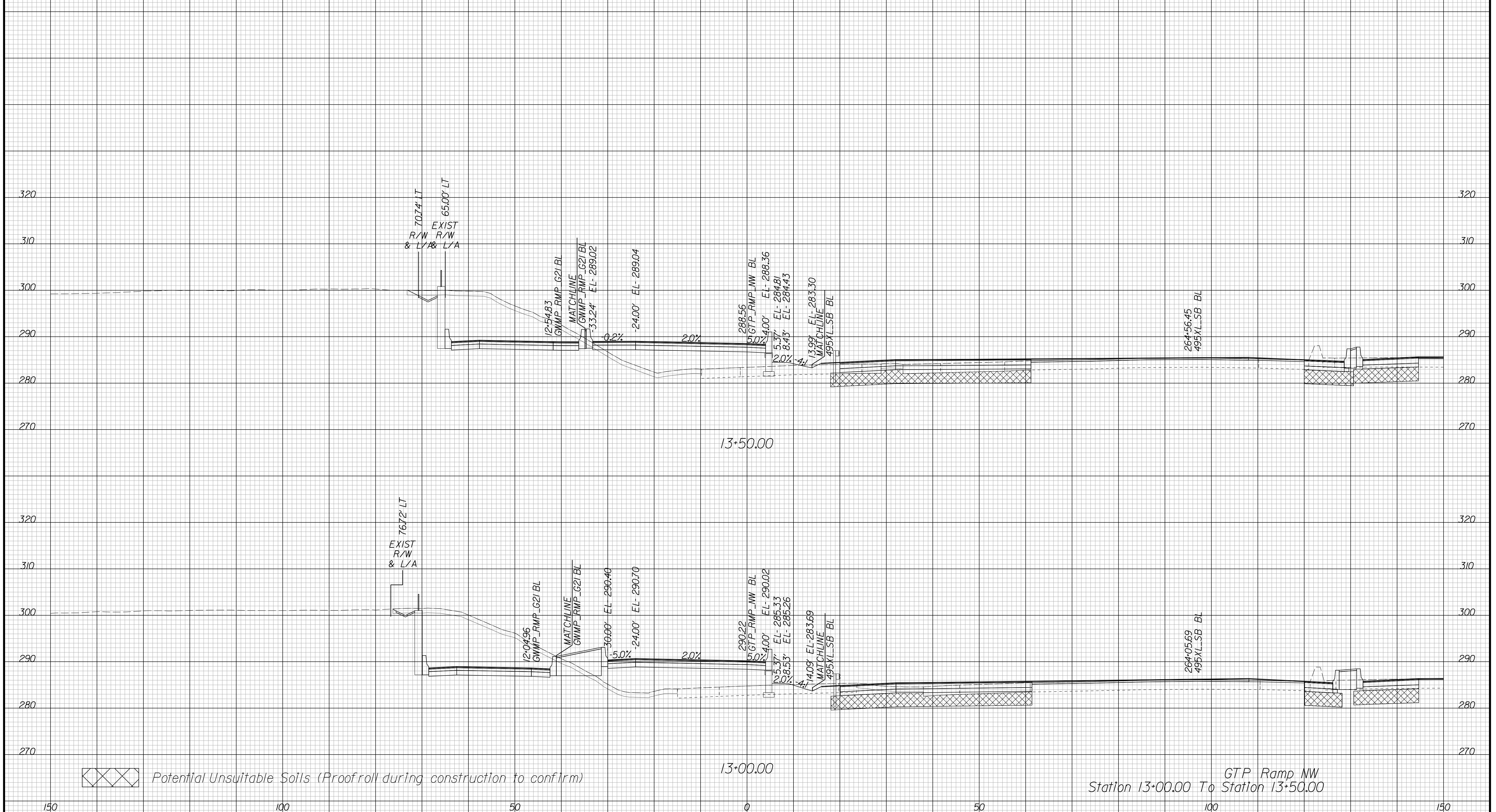
# CROSS SECTIONS

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	X208

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)

GTP Ramp MW  
Station 13+00.00 To Station 13+50.00

APPROVED FOR CONSTRUCTION

PROJECT	SHEET NO.
0495-029-419	X208

PROJECT MANAGER VDOT - Bimbal Stab PE (703) 259-2362  
SURVEYED BY DATE BDA - Nicholas Kougoulis LS (703) 334-0837, 1/2019  
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

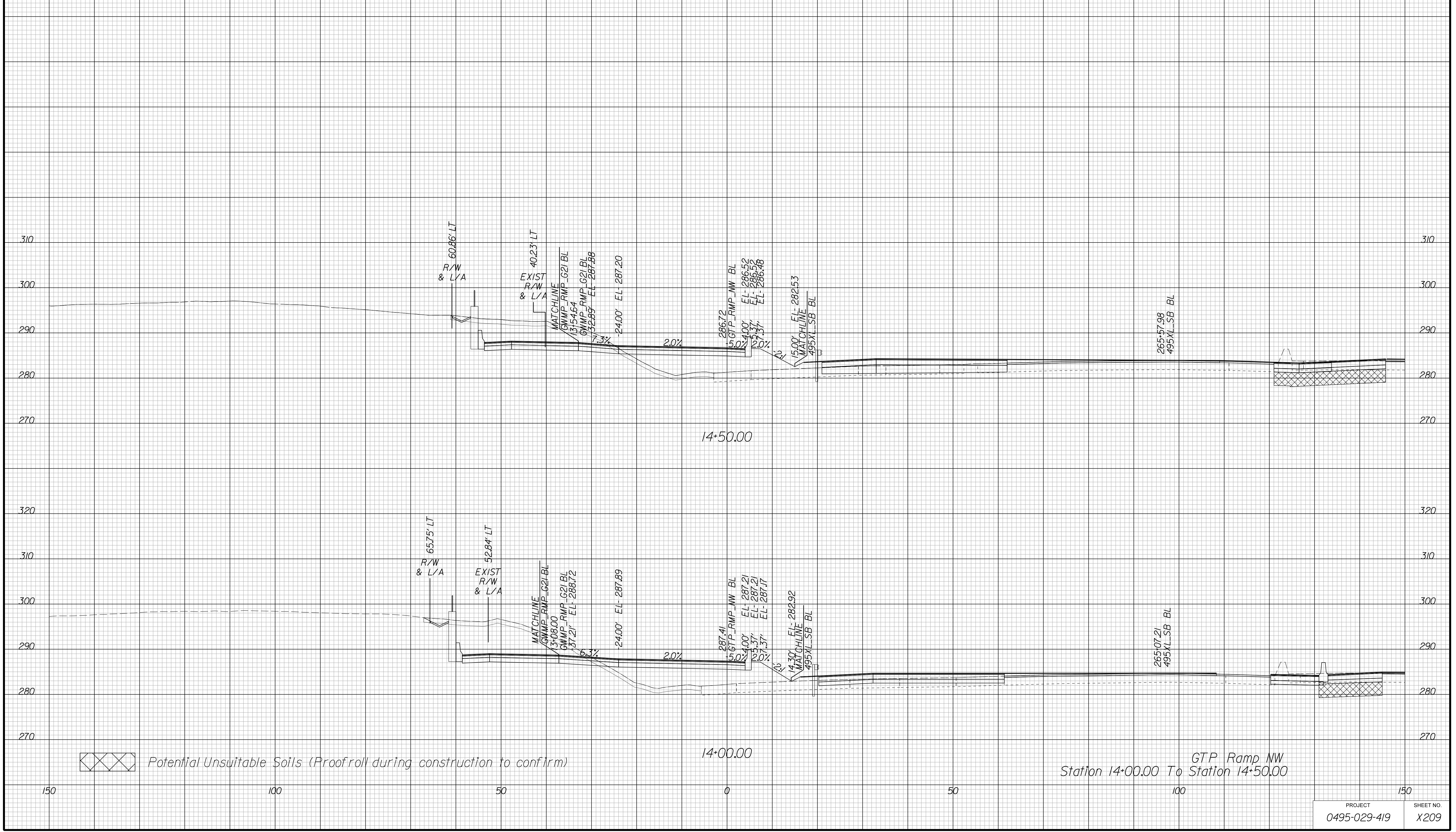
# CROSS SECTIONS

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	X209

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, 1/2019  
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

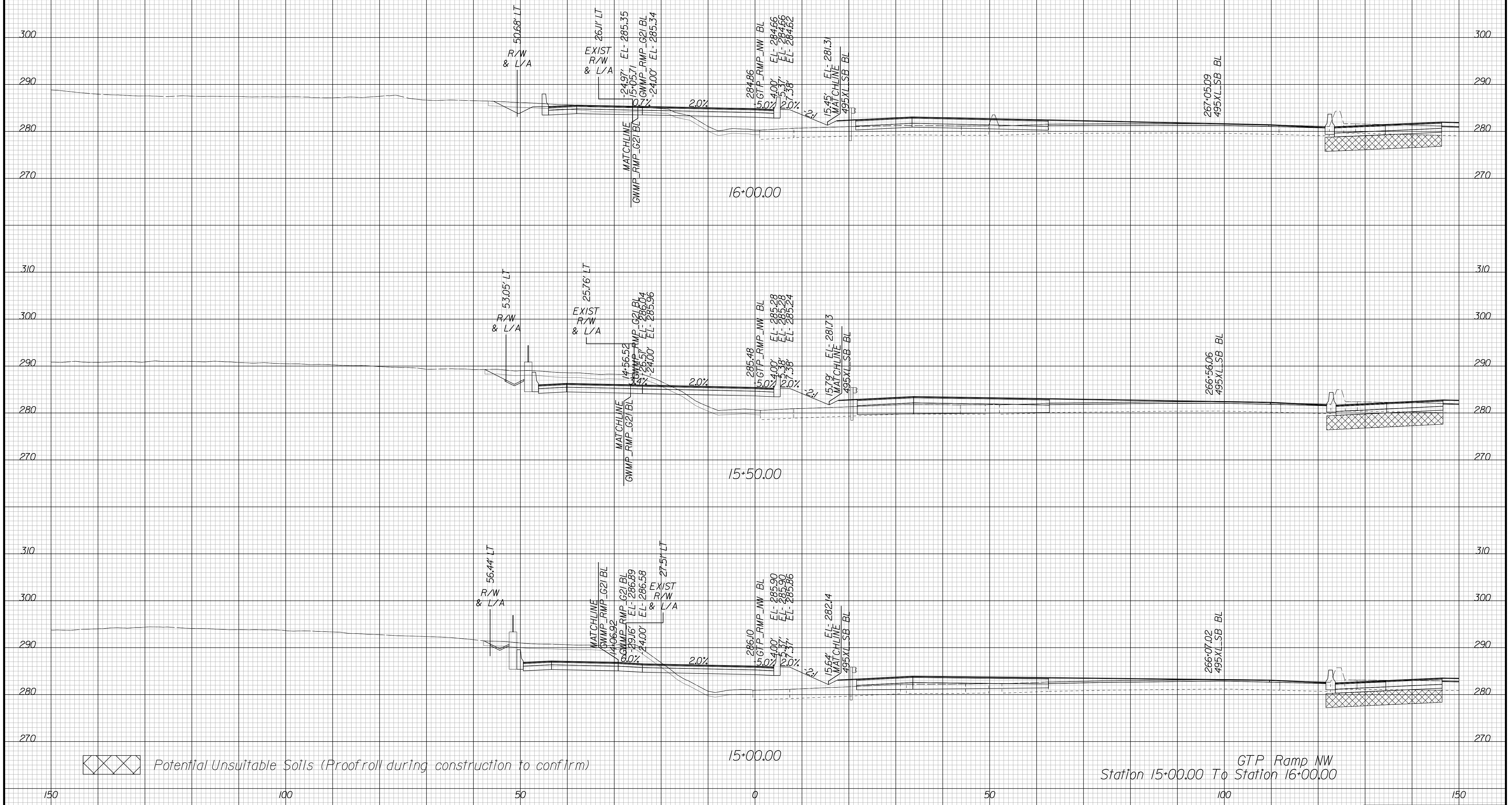
# CROSS SECTIONS

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	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.



Potential Unsuitable Soils (Proofroll during construction to confirm)

GTP Ramp MW  
Station 15+00.00 To Station 16+00.00

APPROVED FOR CONSTRUCTION

PROJECT	SHEET NO.
0495-029-419	X210

PROJECT MANAGER VDOT - Bimbal Stab PE (703) 259-2362  
SURVEYED BY DATE BDA - Nicholas Kougoulis LS (703) 334-0837, 1/2019  
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

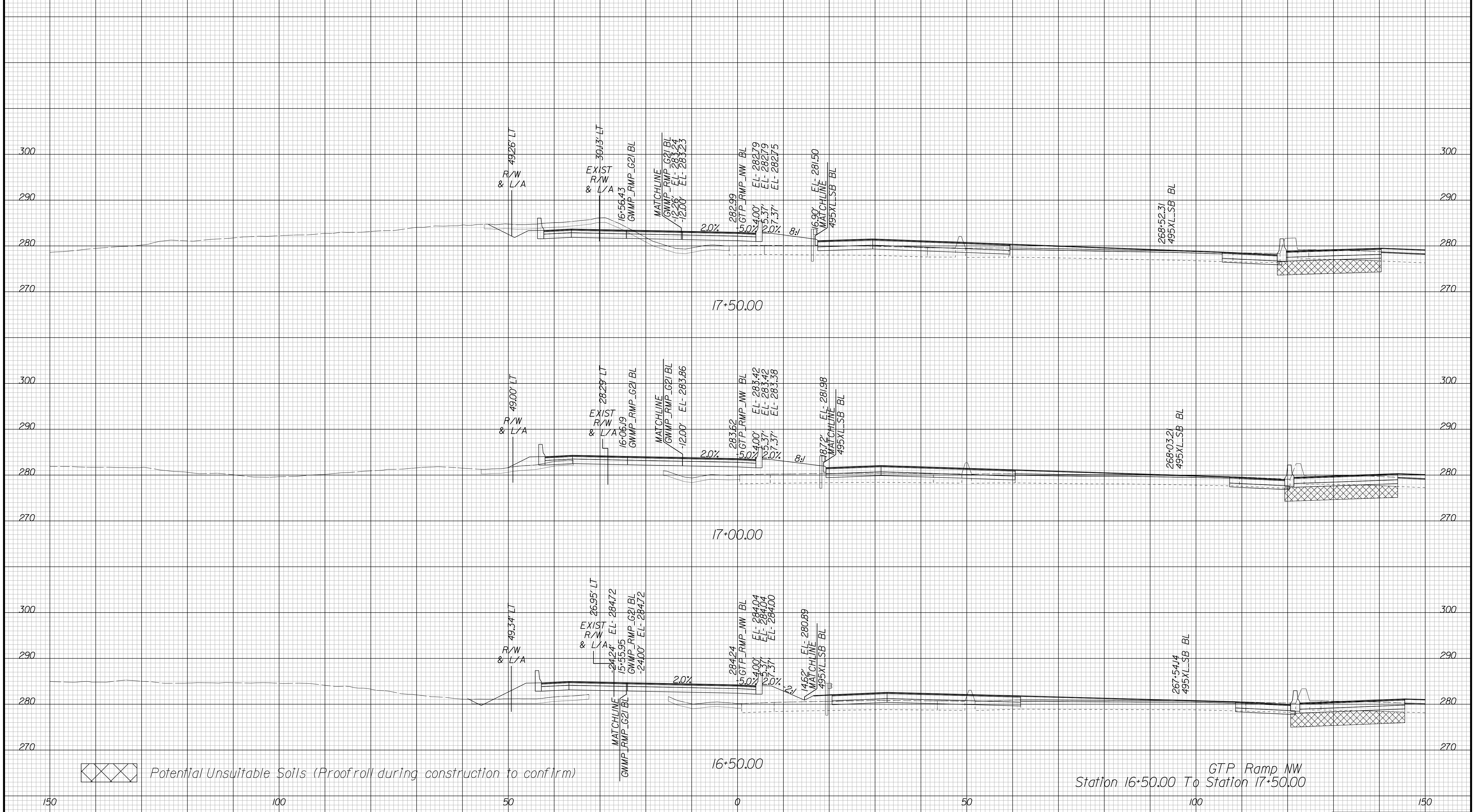
# CROSS SECTIONS

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	X211

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)

GTP Ramp MW  
Station 16+50.00 To Station 17+50.00

APPROVED FOR CONSTRUCTION



PROJECT MANAGER VDOT - Bimbal Stab PE (703) 259-2362  
SURVEYED BY DATE BDA - Nicholas Kougoulis LS (703) 334-0837, 1/2019  
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

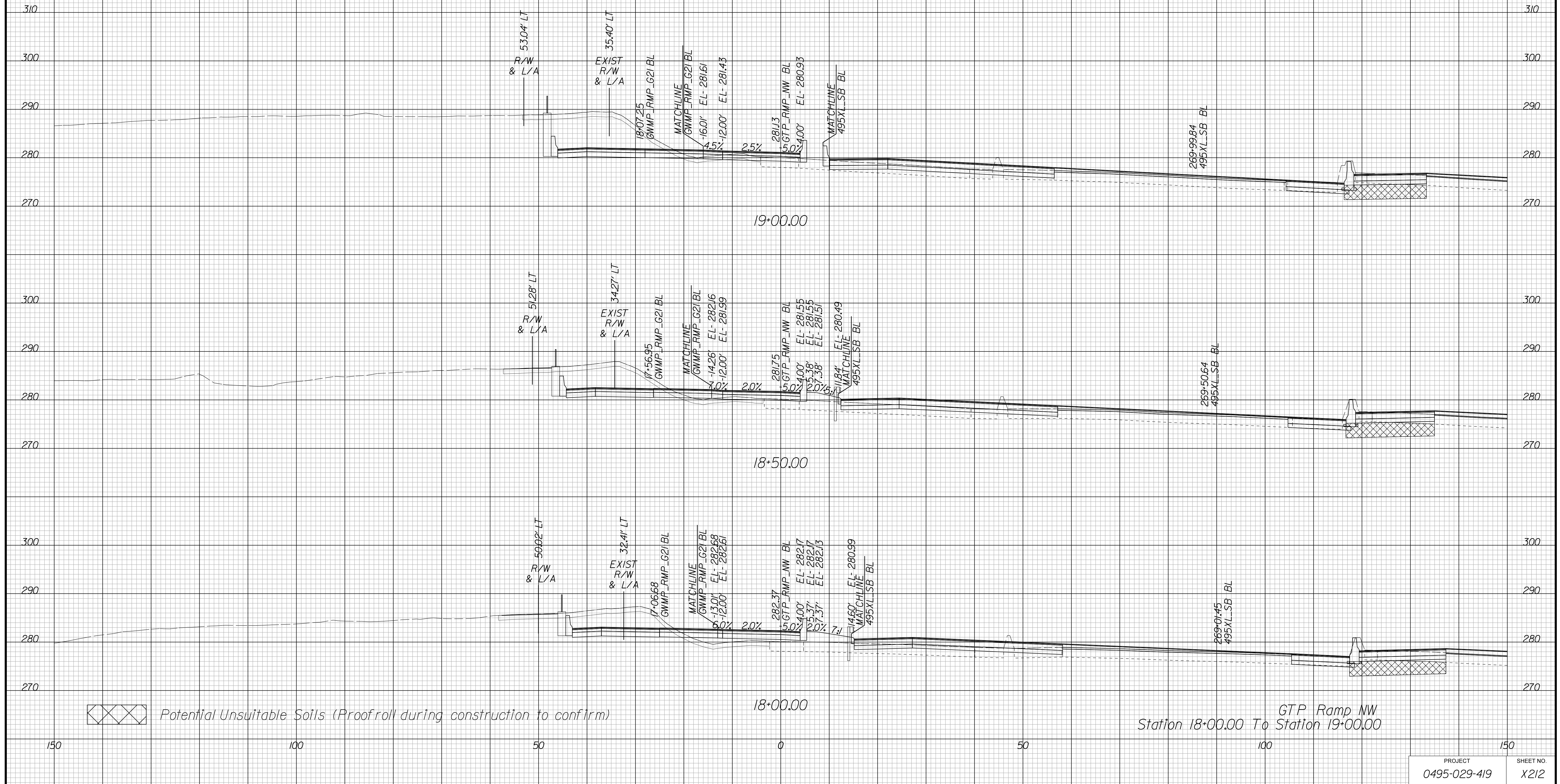
# CROSS SECTIONS

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

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, 1/2019  
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

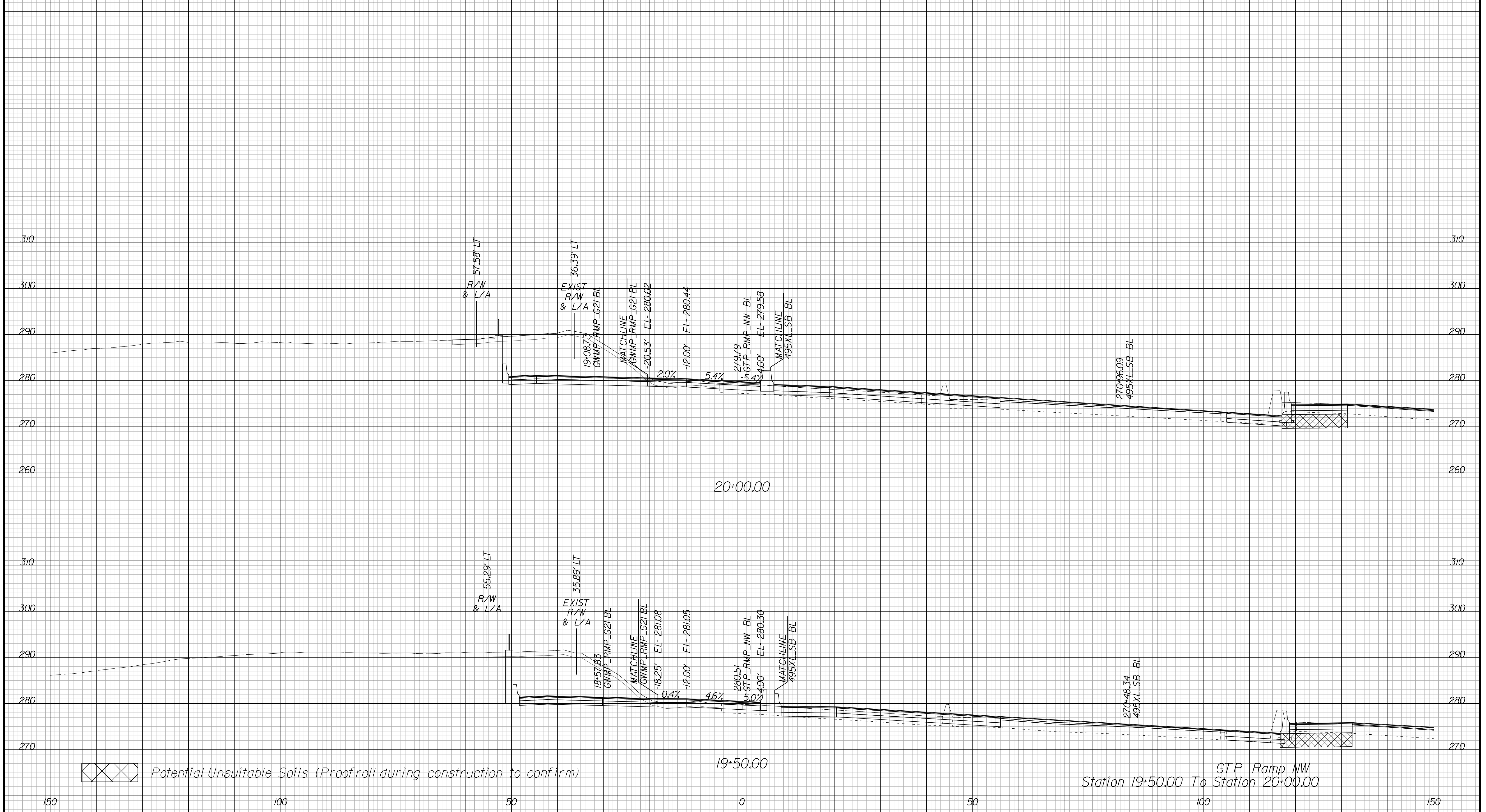
# CROSS SECTIONS

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

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)

GTP Ramp MW  
Station 19+50.00 To Station 20+00.00

APPROVED FOR CONSTRUCTION



PROJECT MANAGER VDOT - Bimbal Stab PE (703) 259-2362  
SURVEYED BY DATE BDA - Nicholas Kougoulis LS (703) 334-0837, 1/2019  
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

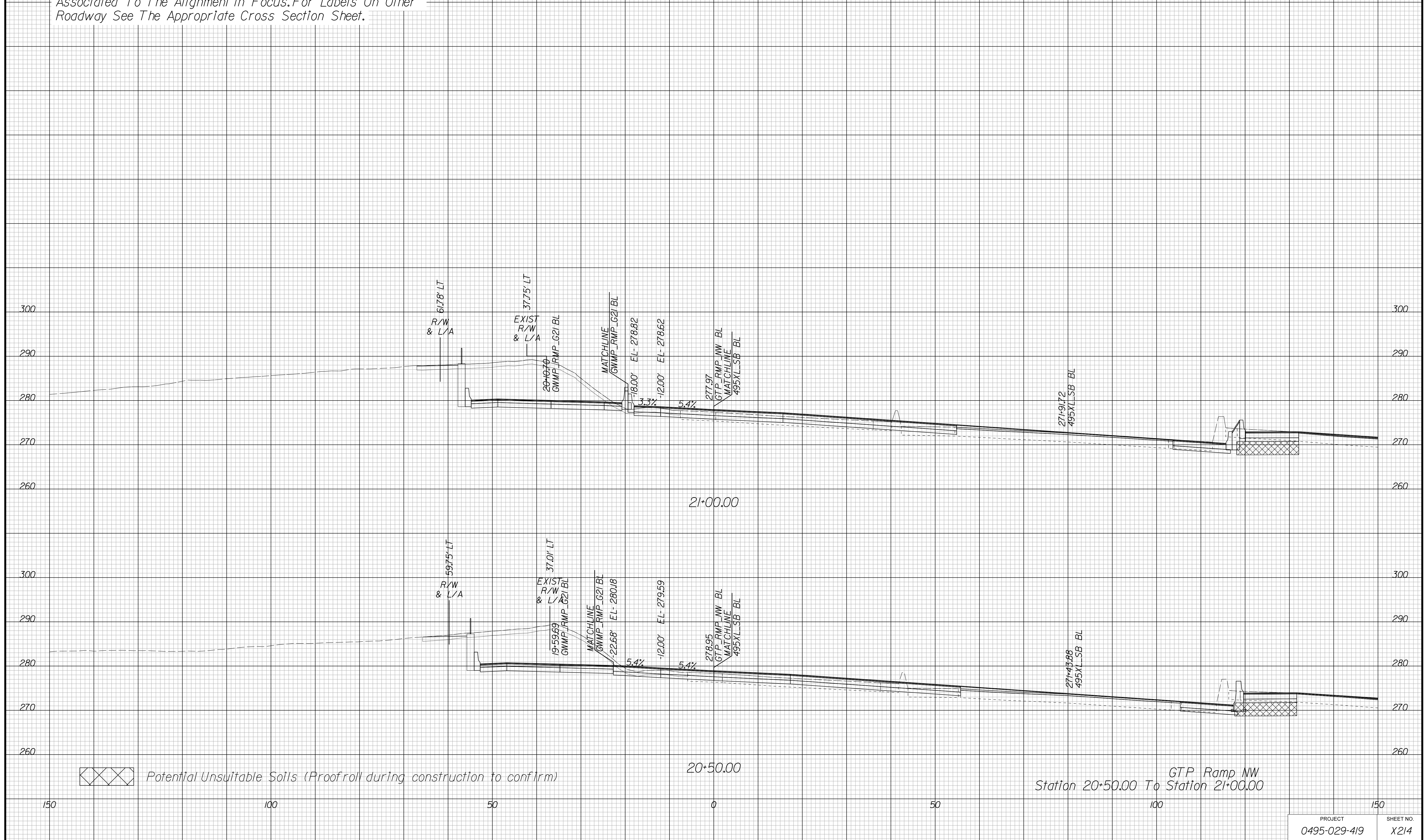
# CROSS SECTIONS

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	X214

*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)

GTP Ramp MW  
Station 20+50.00 To Station 21+00.00

APPROVED FOR CONSTRUCTION

PROJECT MANAGER VDOT - Bimbal Stab PE (703) 259-2362  
SURVEYED BY DATE BDA - Nicholas Kougoulis LS (703) 334-0837, 1/2019  
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

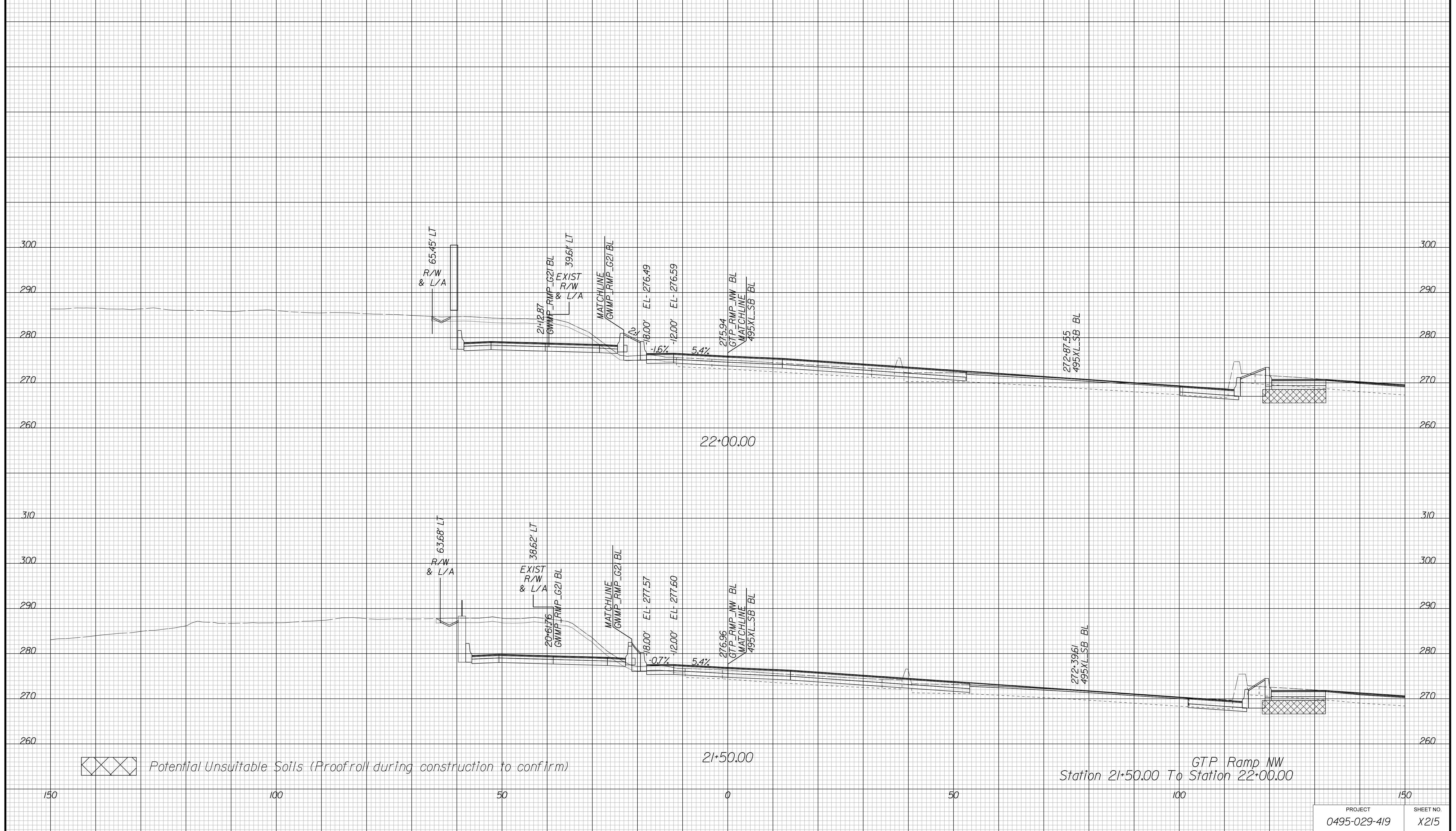
# CROSS SECTIONS

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	X215

*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, 1/2019  
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

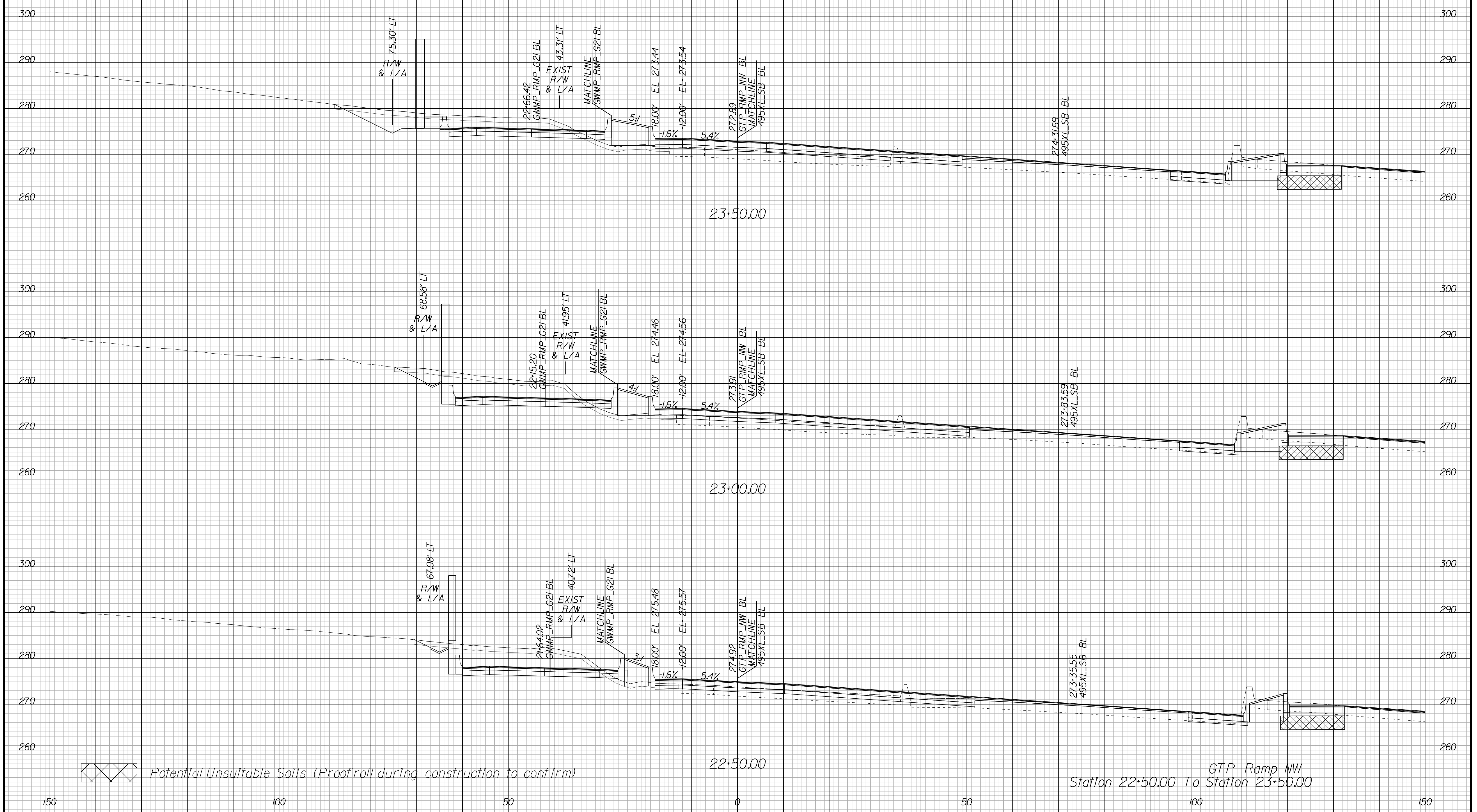
# CROSS SECTIONS

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	X216

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, 1/2019  
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

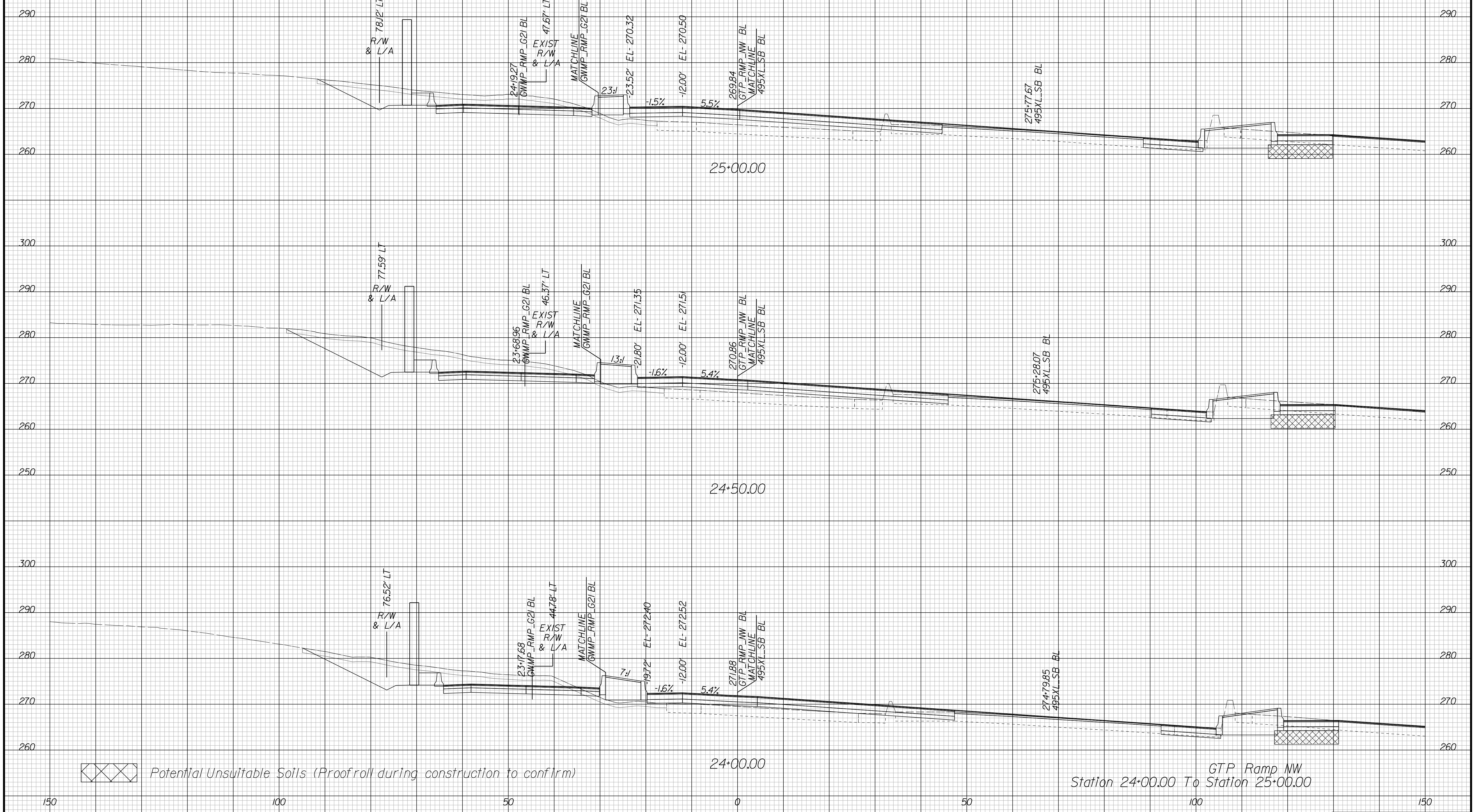
# CROSS SECTIONS

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	X217

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)

GTP Ramp MW  
Station 24+00.00 To Station 25+00.00

PROJECT	SHEET NO.
0495-029-419	X217

APPROVED FOR CONSTRUCTION



PROJECT MANAGER VDOT - Bimbal Stab PE (703) 259-2362  
SURVEYED BY, DATE BDA - Nicholas Kougoulis LS (703) 334-0837, 1/2019  
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

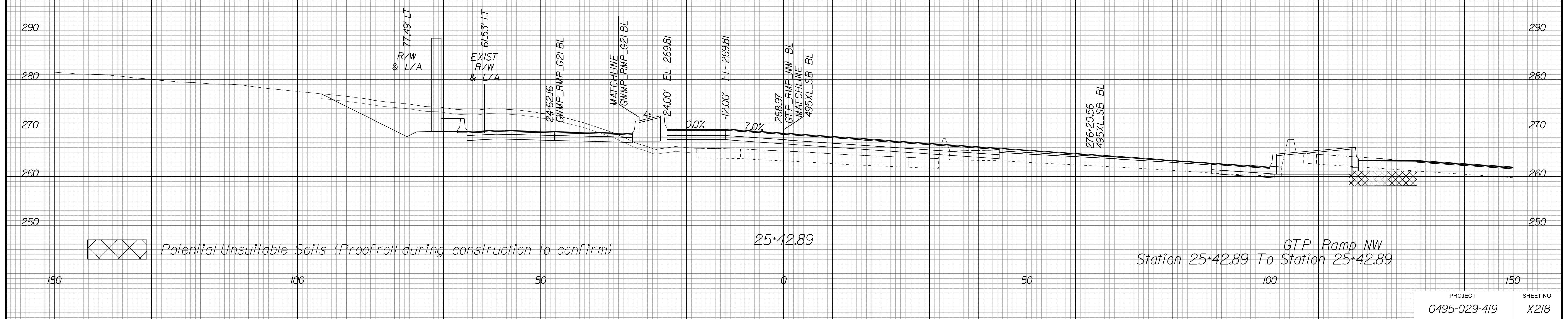
# CROSS SECTIONS

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	X218

*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	X218

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

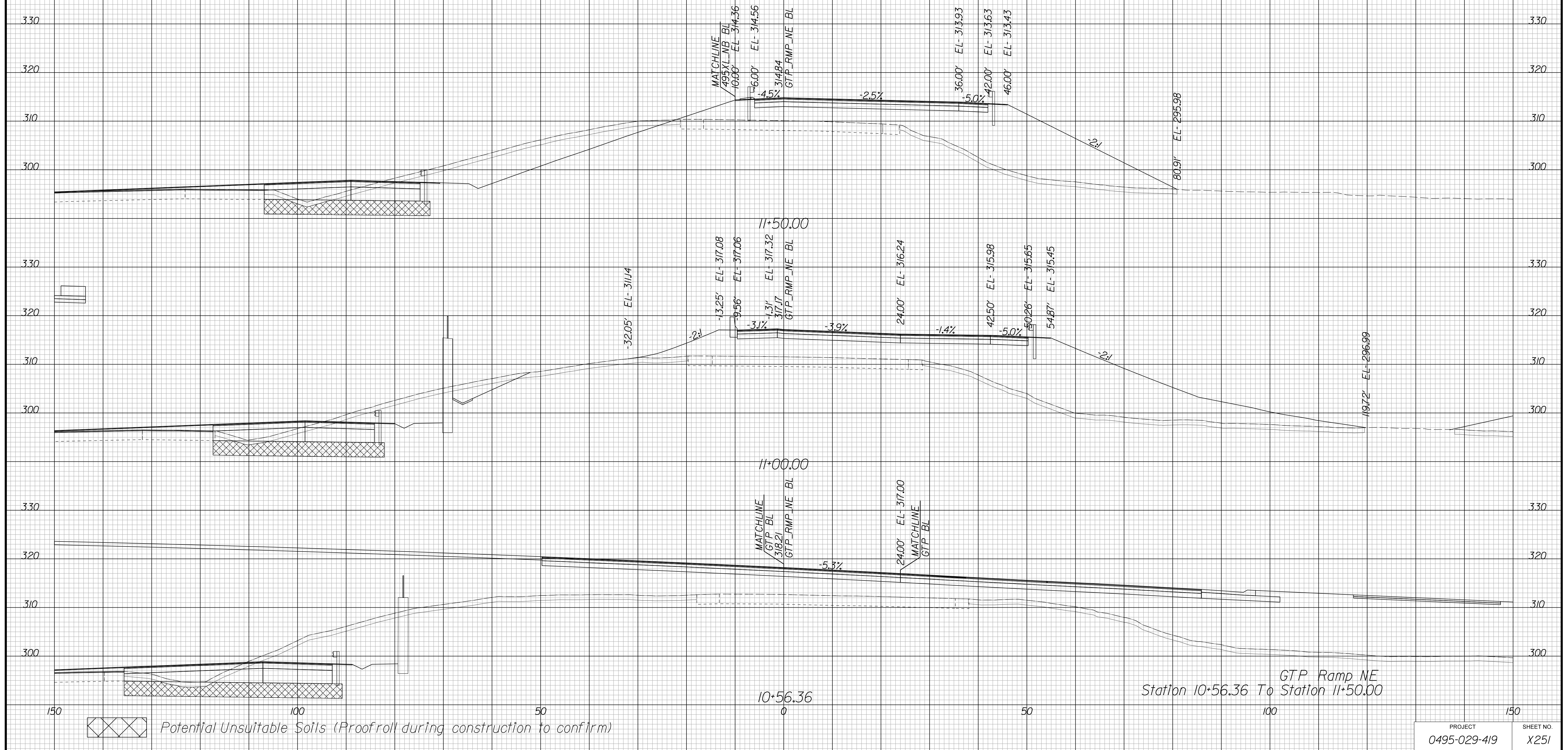
# CROSS SECTIONS

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		0495-029-419	X25/ AREA 3

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	X25/

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

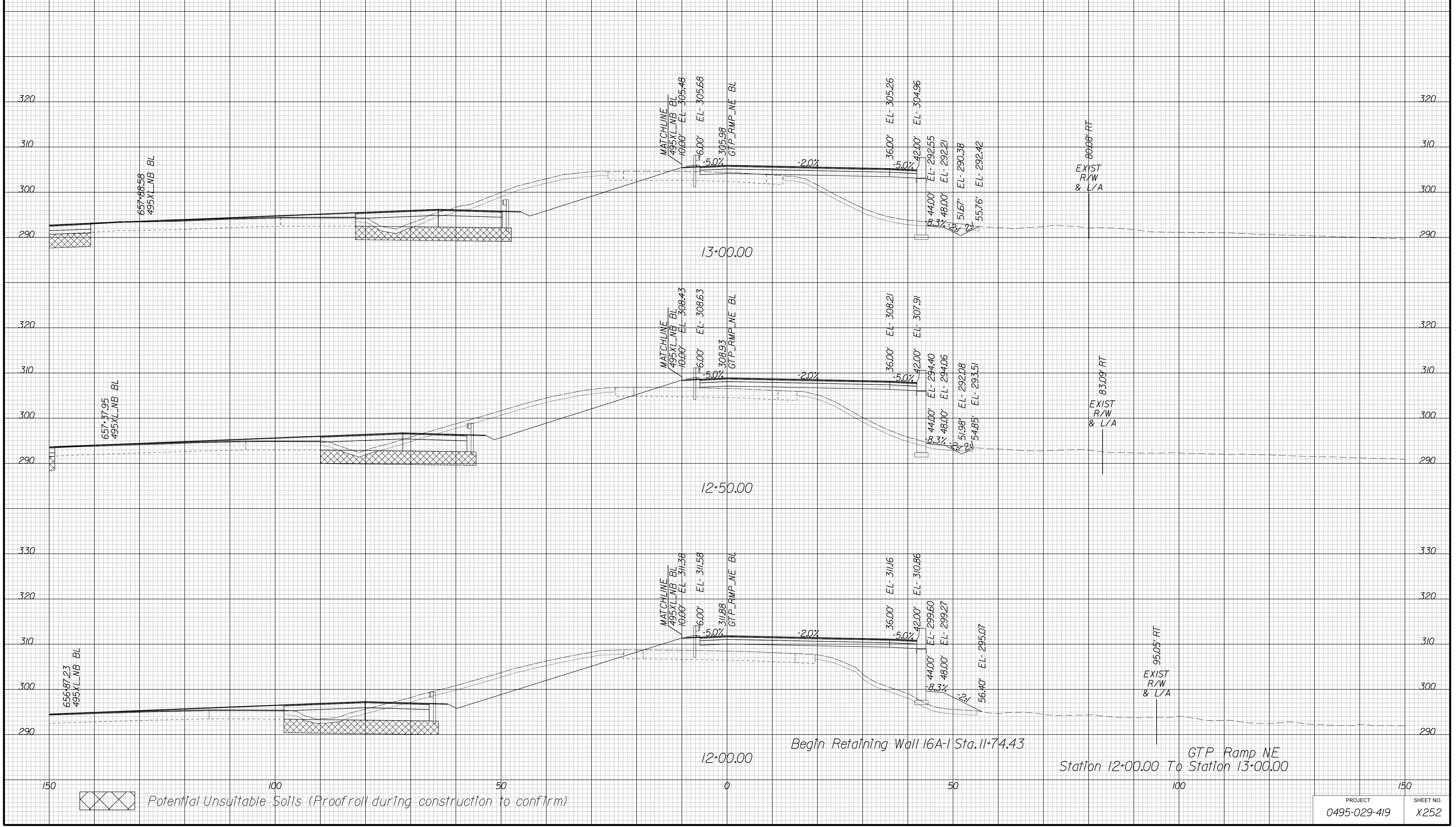
# CROSS SECTIONS

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	X252 AREA 3

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

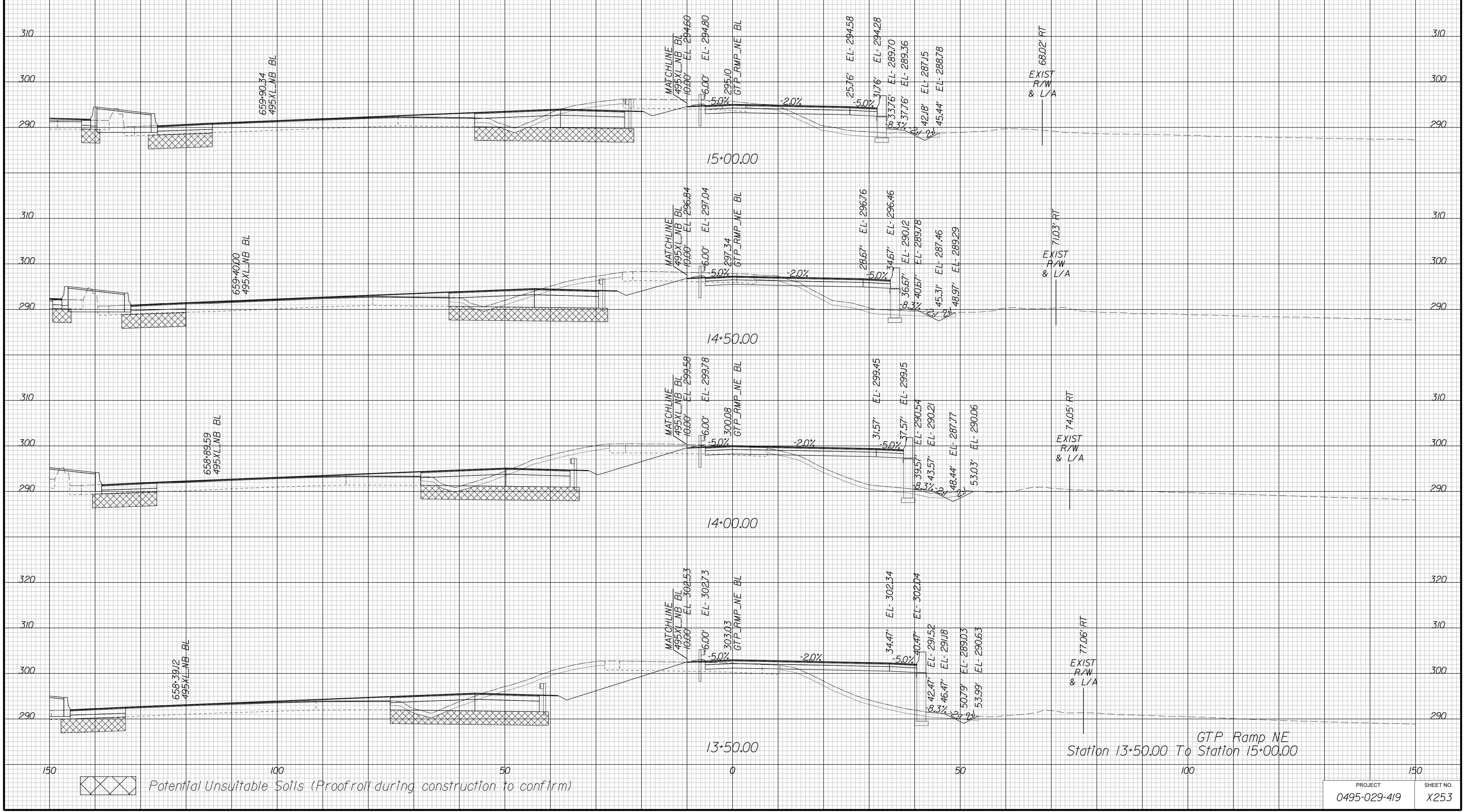
# CROSS SECTIONS

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	X253 AREA 3

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.



GTP Ramp NE  
Station 13+50.00 To Station 15+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 Elischer BE (703) 334-0823, Daxberry - Ron Jakominich PE (703) 849-0651  
SUBSURFACE UTILITY BY DATE Accurmark - Michael Taylor LS (703) 635-3060, 12/2021

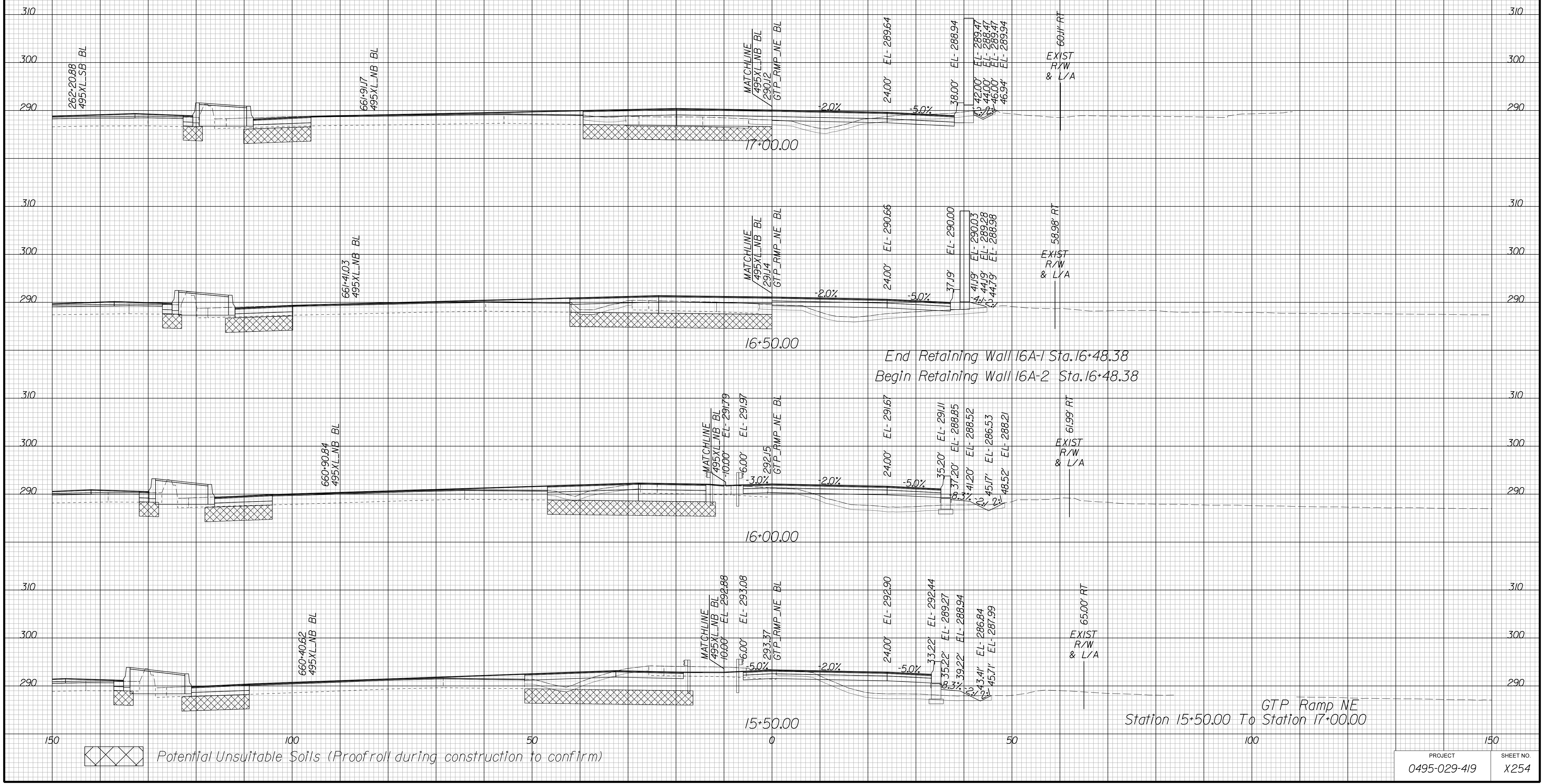
# CROSS SECTIONS

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	X254 AREA 3

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

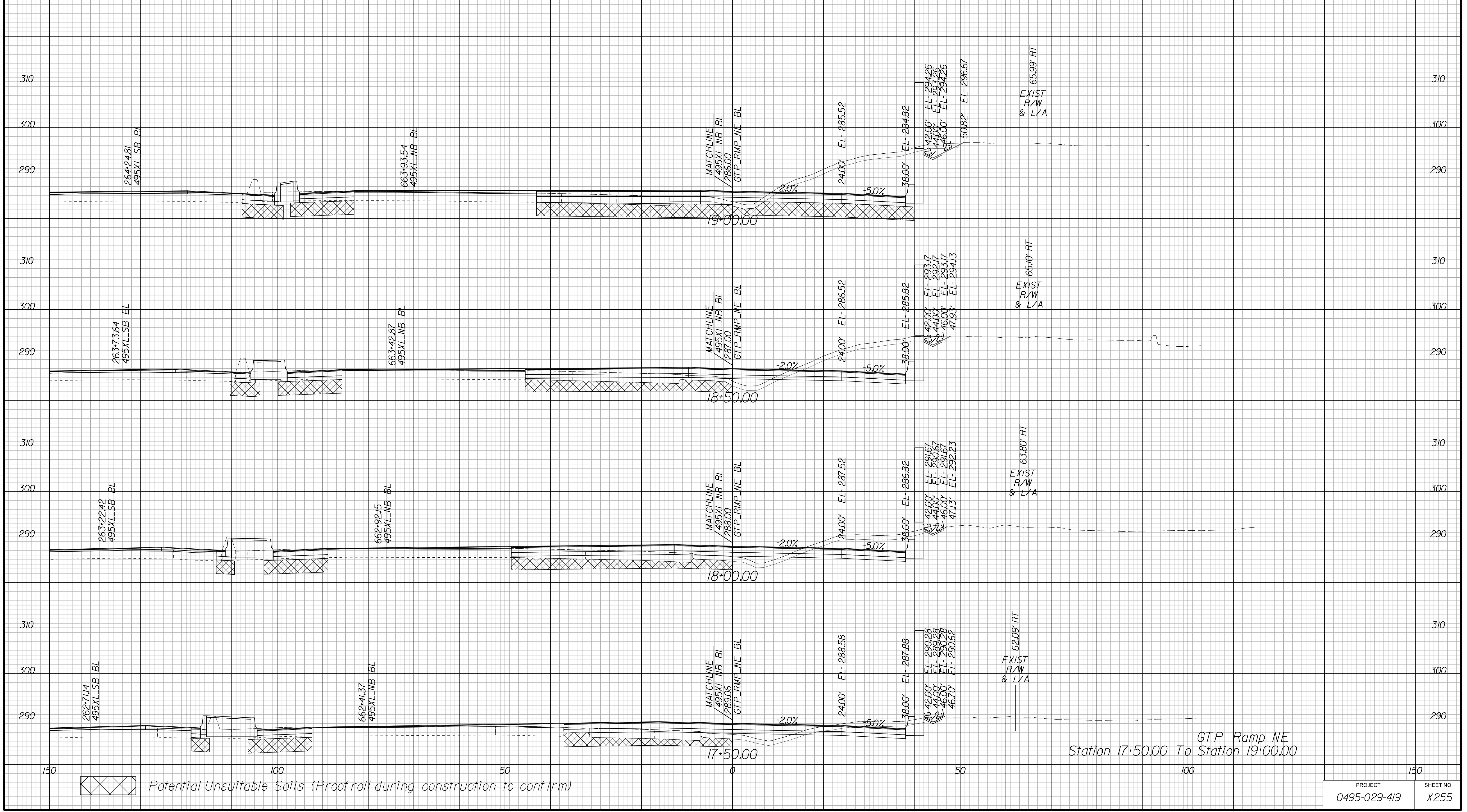
# CROSS SECTIONS

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	X255 AREA 3

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, Dexberry - Ron Jakominich PE (703) 849-0651  
SUBSURFACE UTILITY BY DATE Accurmark - Michael Taylor LS (703) 635-3060, 12/2021

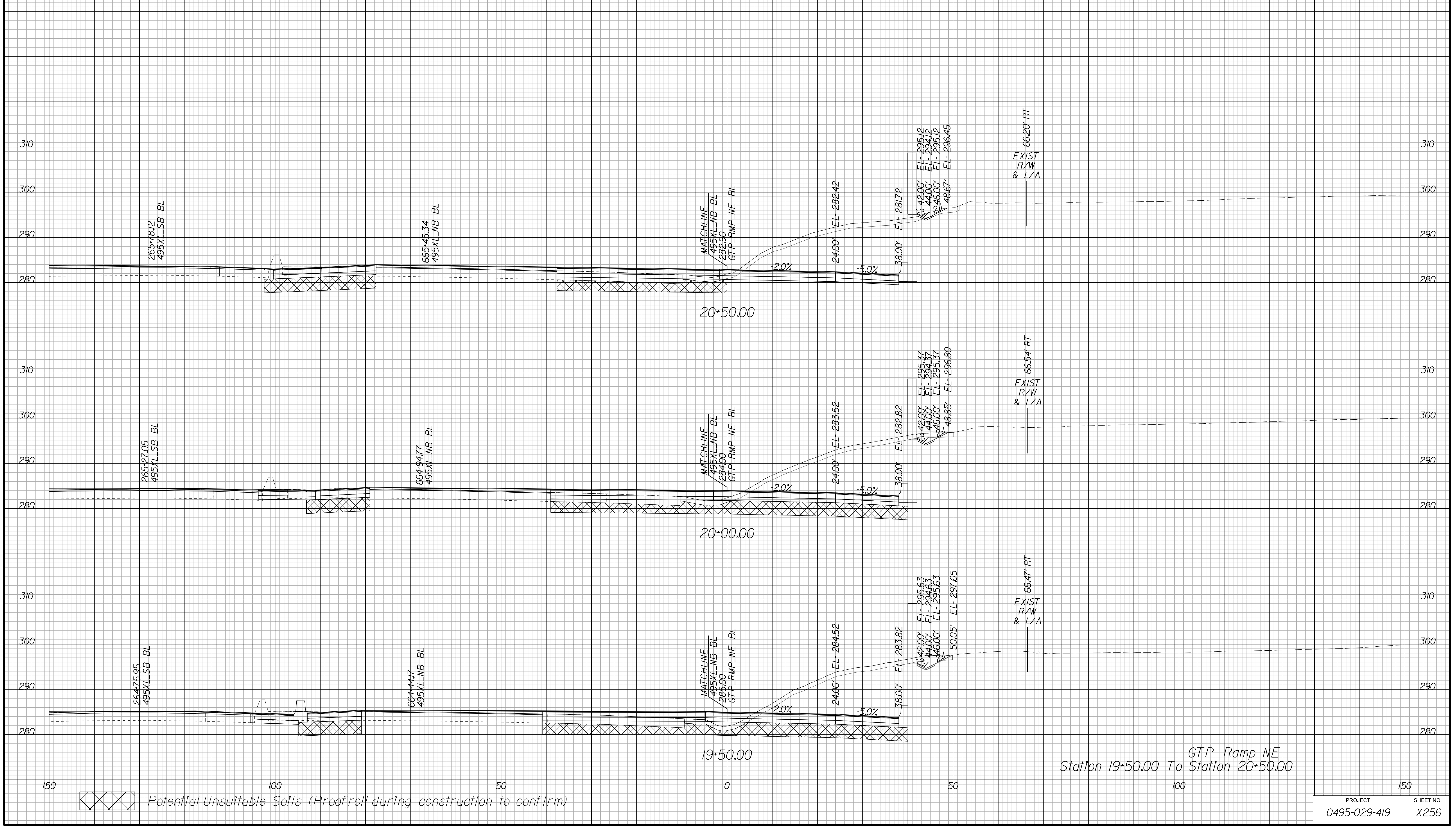
### CROSS SECTIONS

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 3

*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 Kougioulis 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

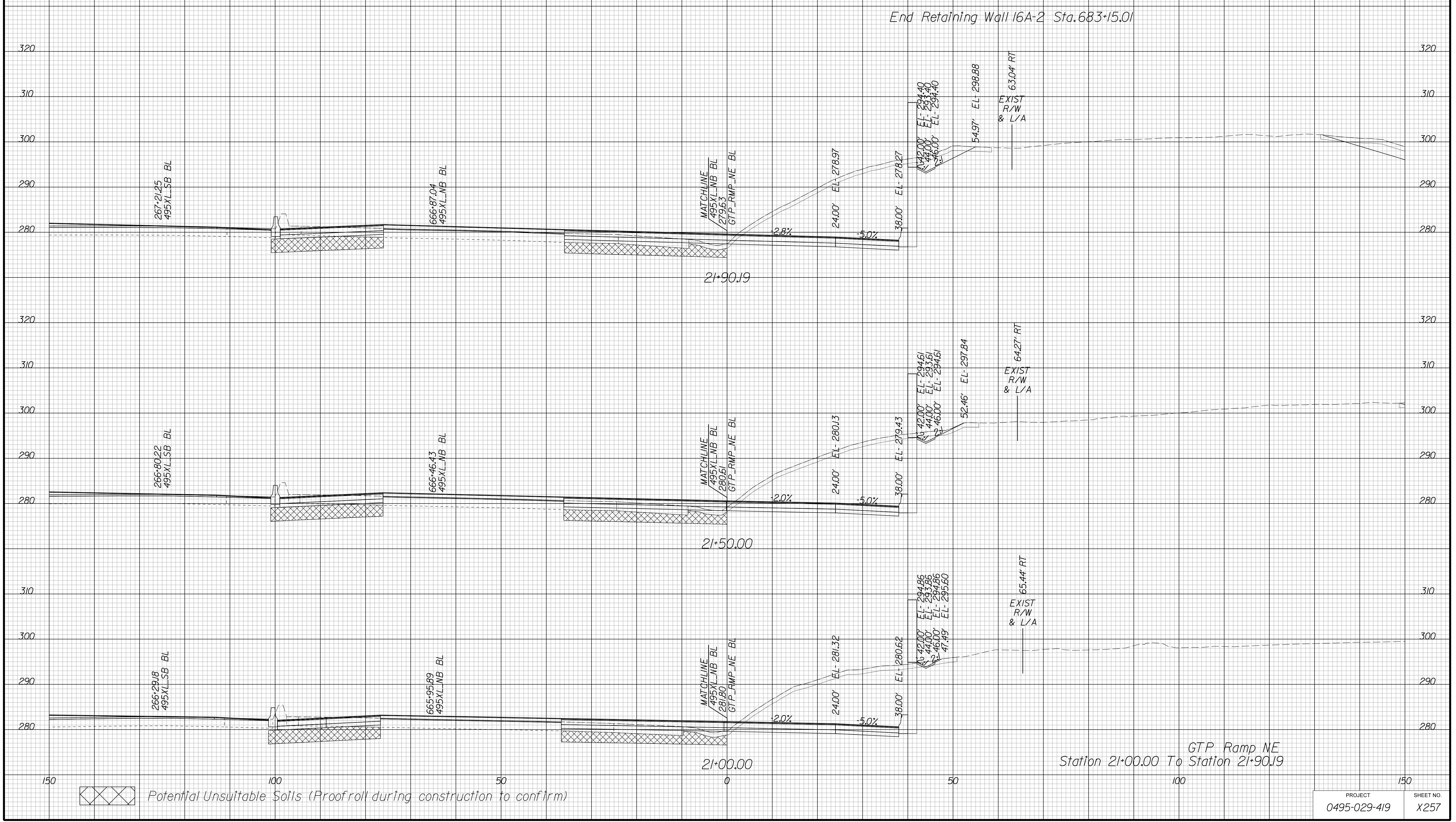
# CROSS SECTIONS

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	X257 AREA 3

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

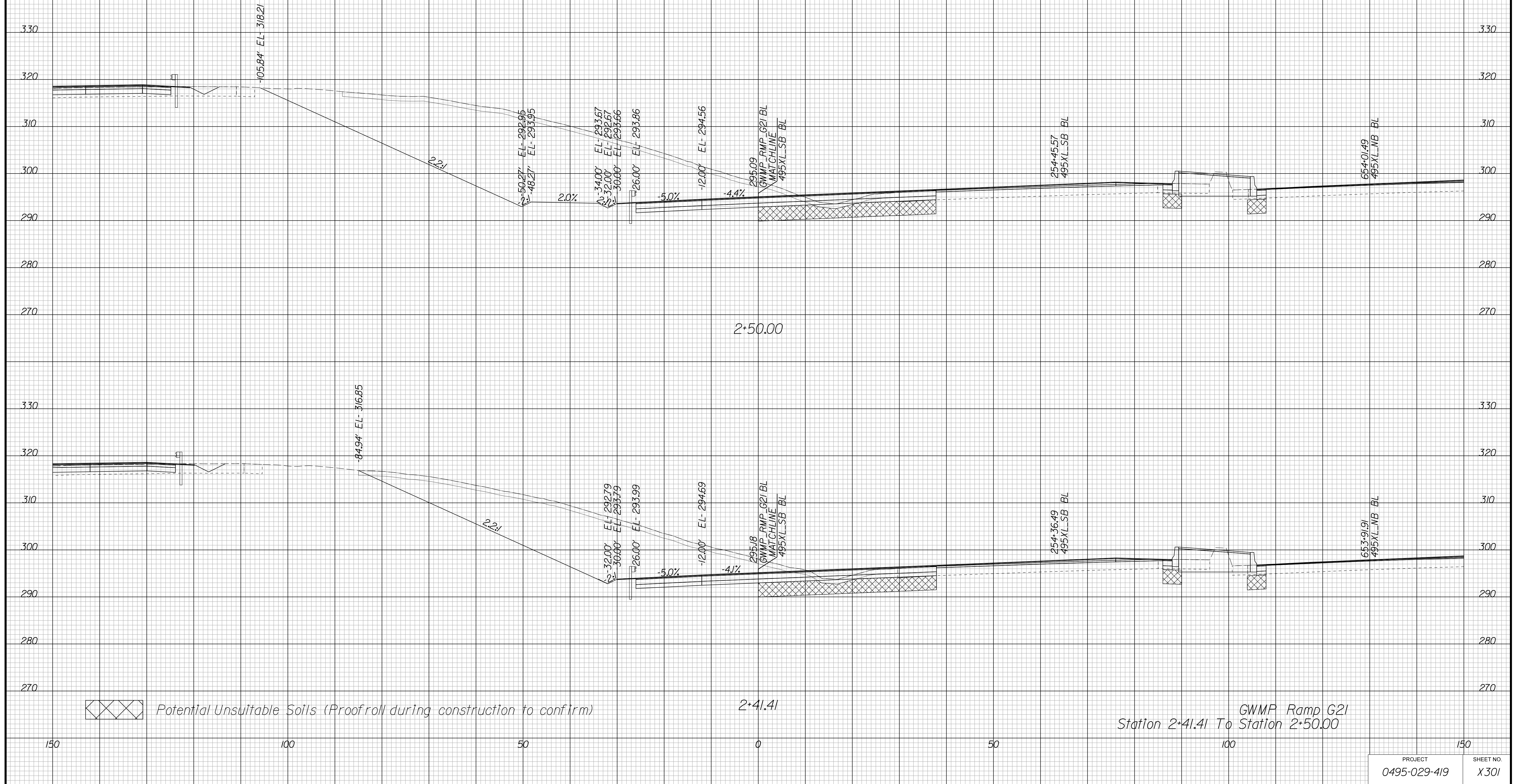
# CROSS SECTIONS

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	X301 AREA 3

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	X301





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

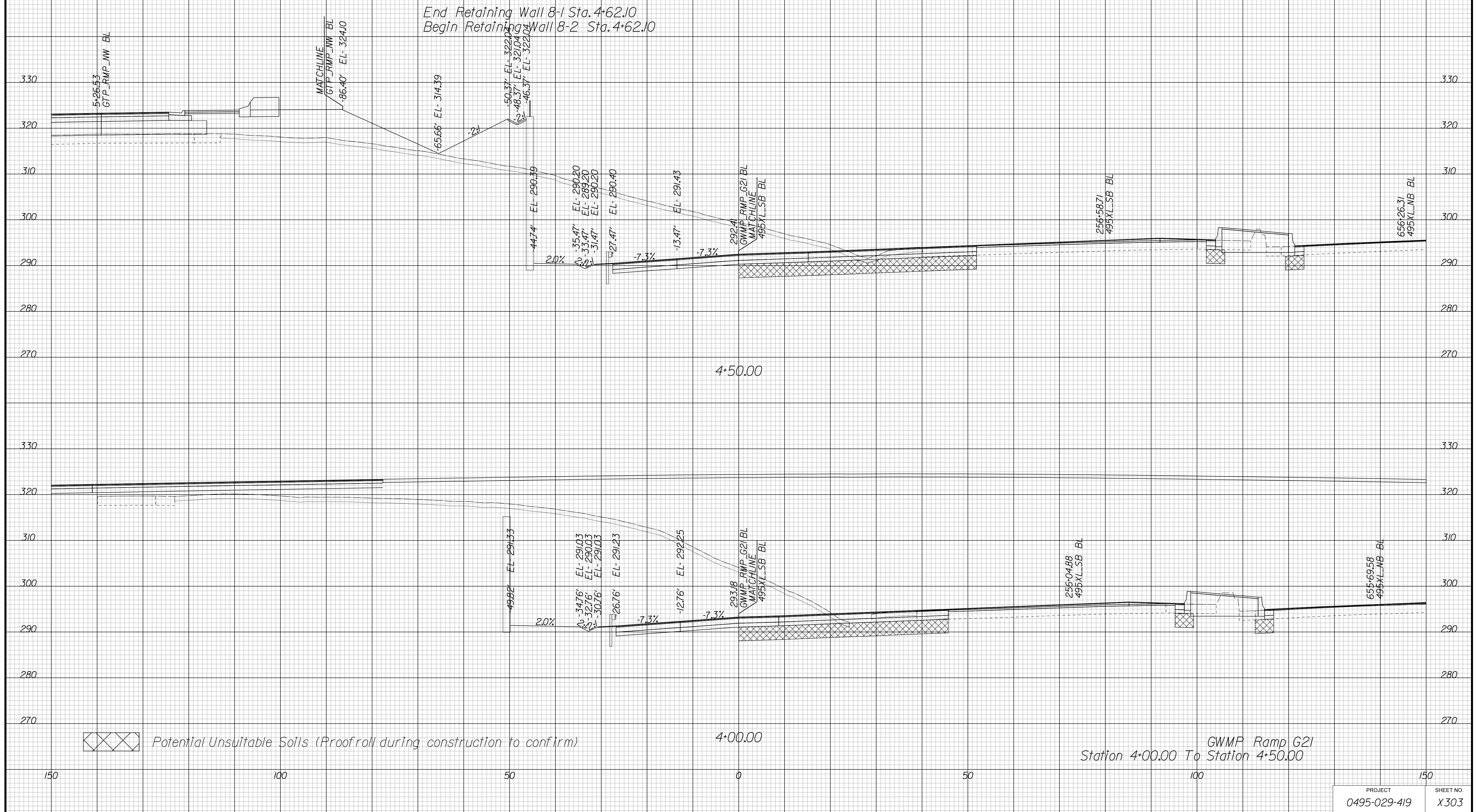
# CROSS SECTIONS

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	X303 AREA 3

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	X303

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

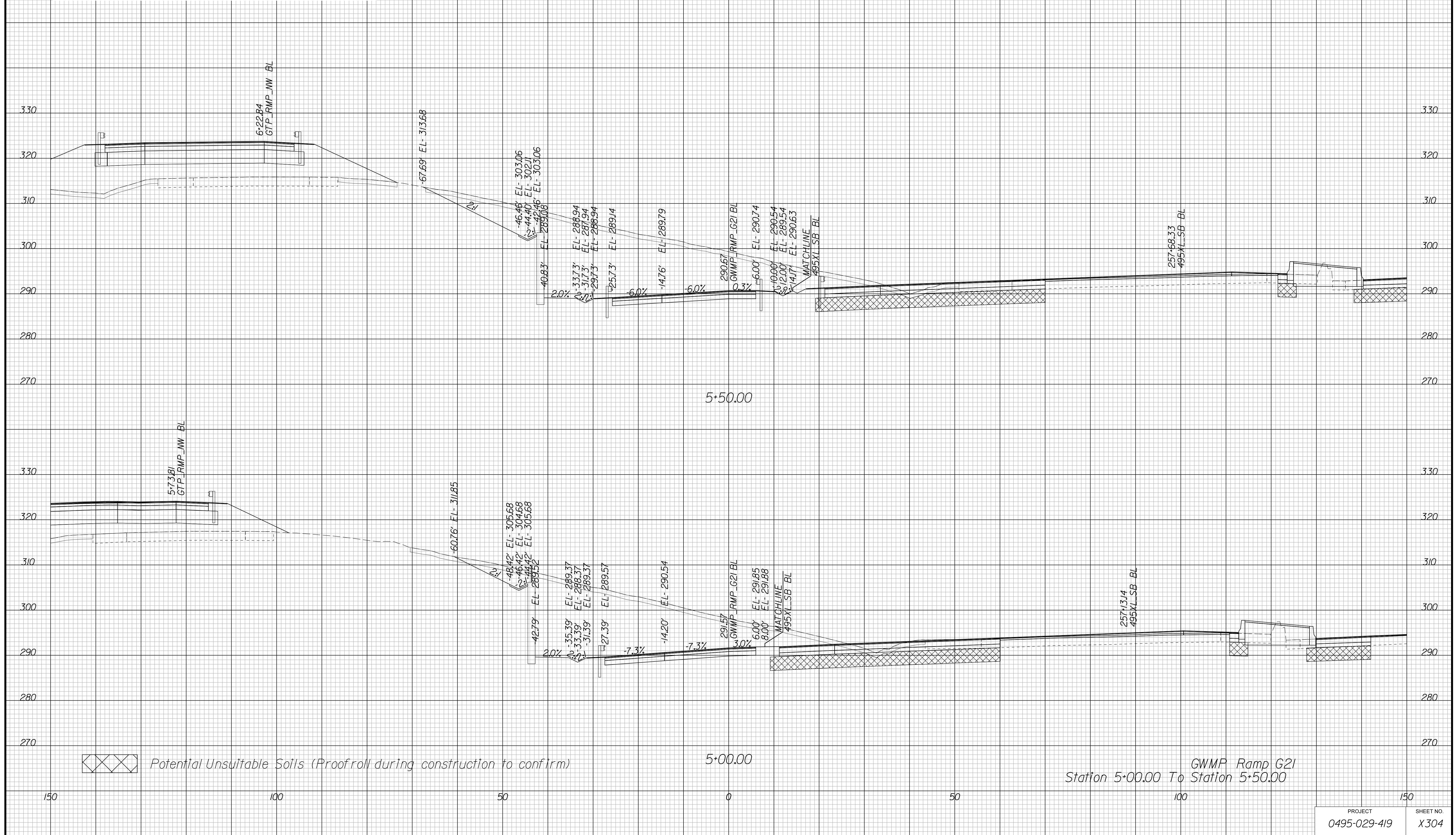
# CROSS SECTIONS

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	X304 AREA 3

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 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

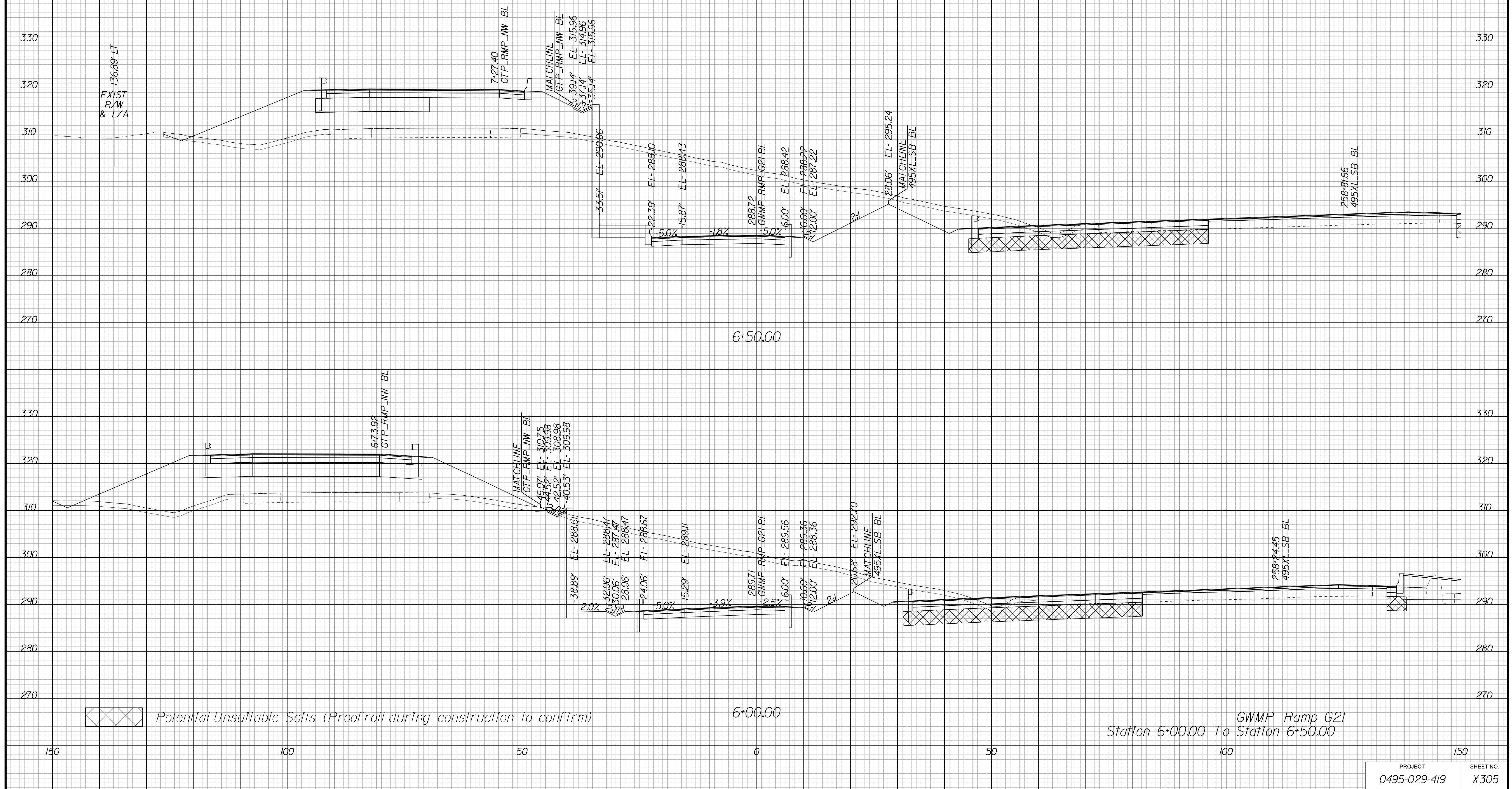
# CROSS SECTIONS

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	X305 AREA 3

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 6+00.00 To Station 6+50.00

APPROVED FOR CONSTRUCTION

PROJECT	SHEET NO.
0495-029-419	X305

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

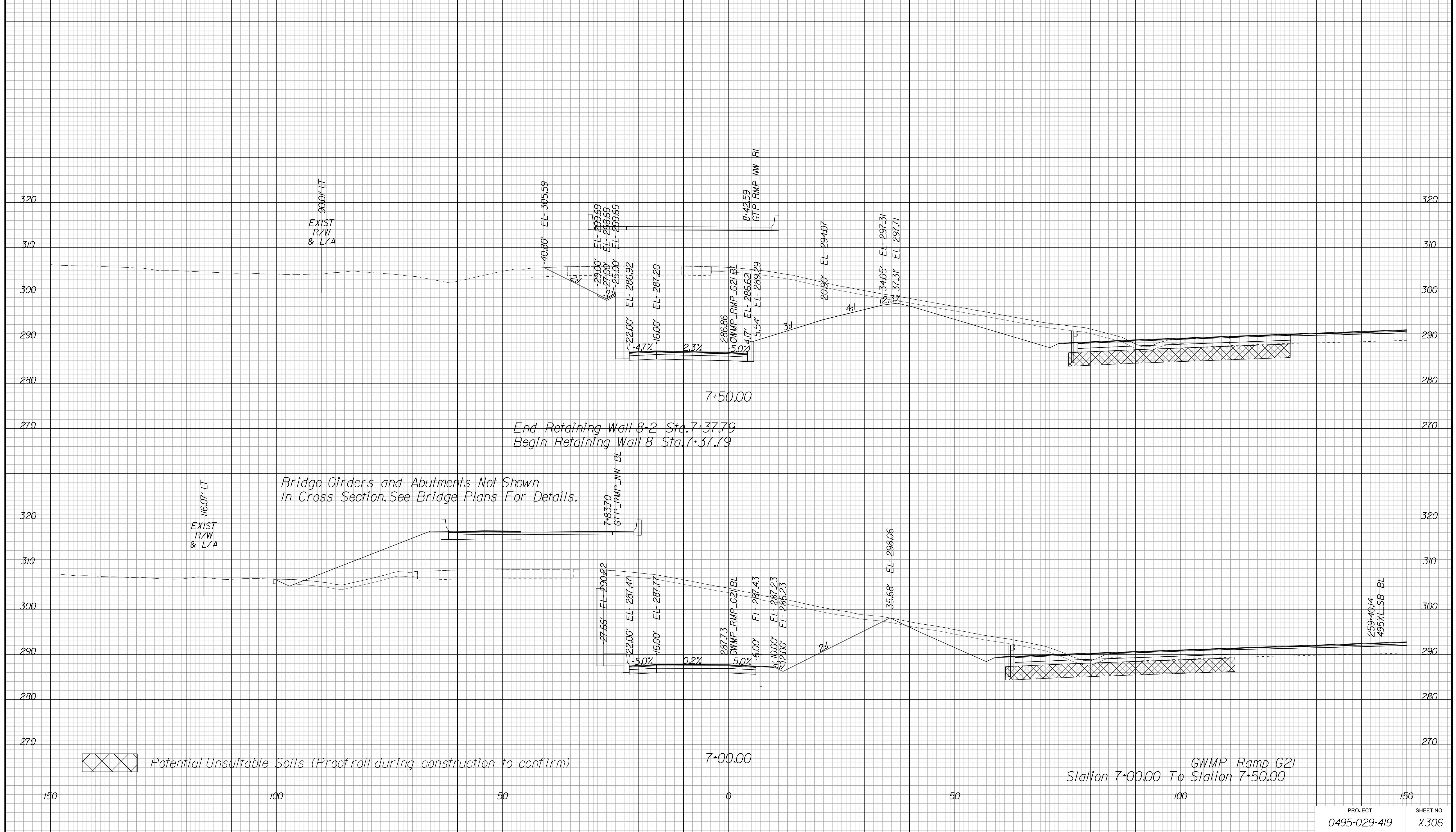
# CROSS SECTIONS

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	X306 AREA 3

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

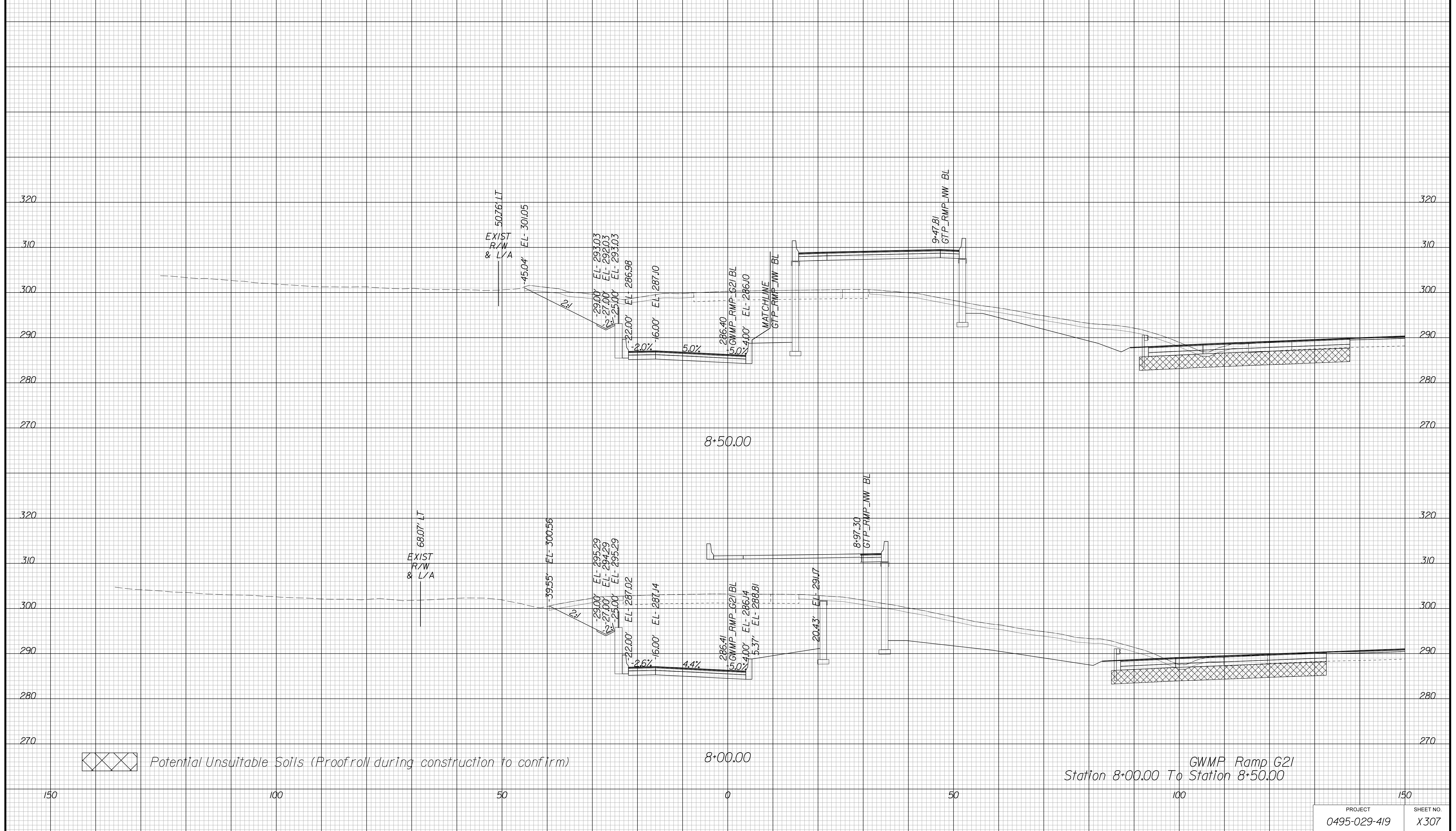
# CROSS SECTIONS

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	X307 AREA 3

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, Dexberry - Ron Jakominich PE (703) 849-0651  
SUBSURFACE UTILITY BY DATE Accurmark - Michael Taylor LS (703) 635-3060, 12/2021

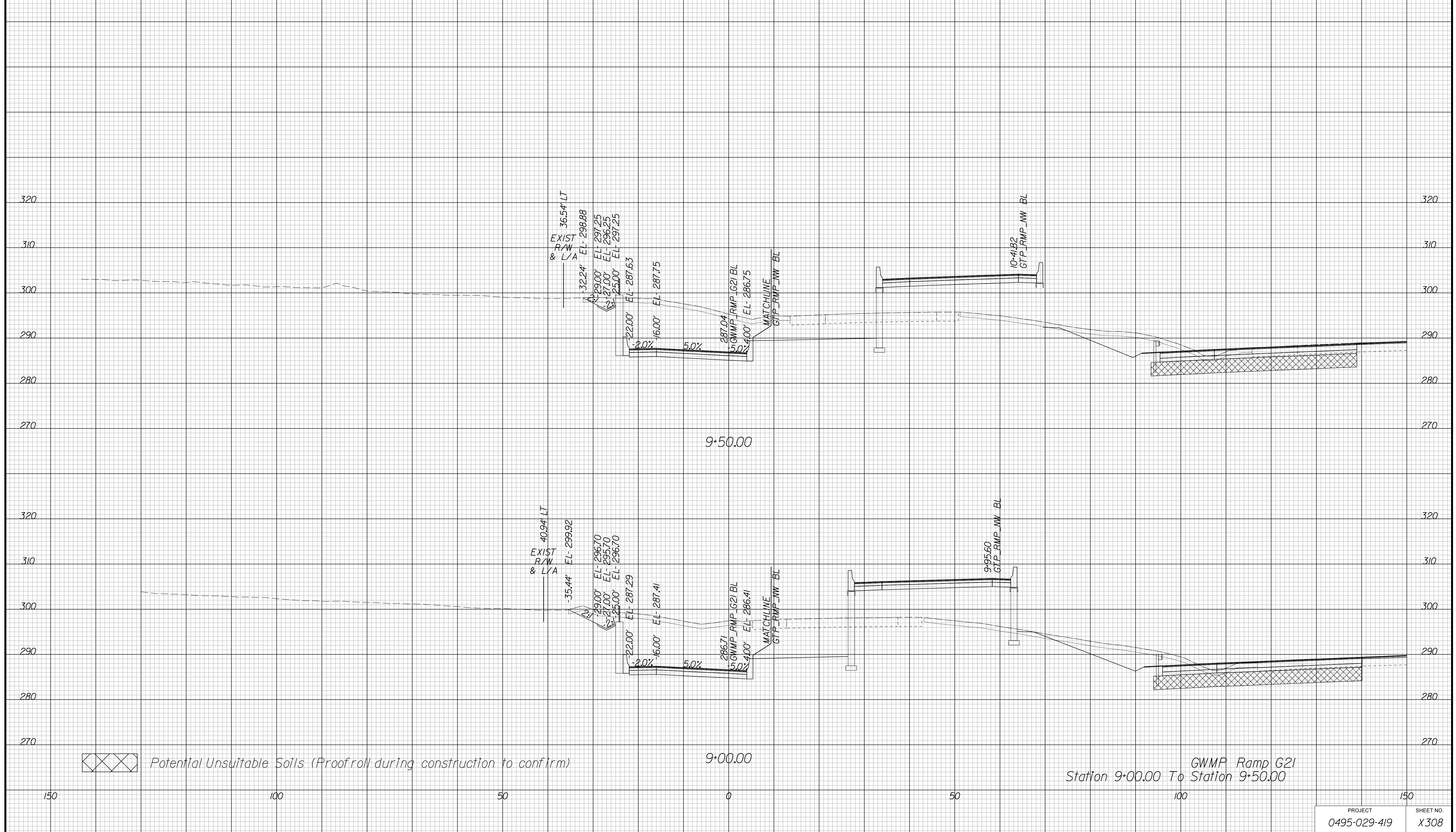
# CROSS SECTIONS

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	X308 AREA 3

*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	X308

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

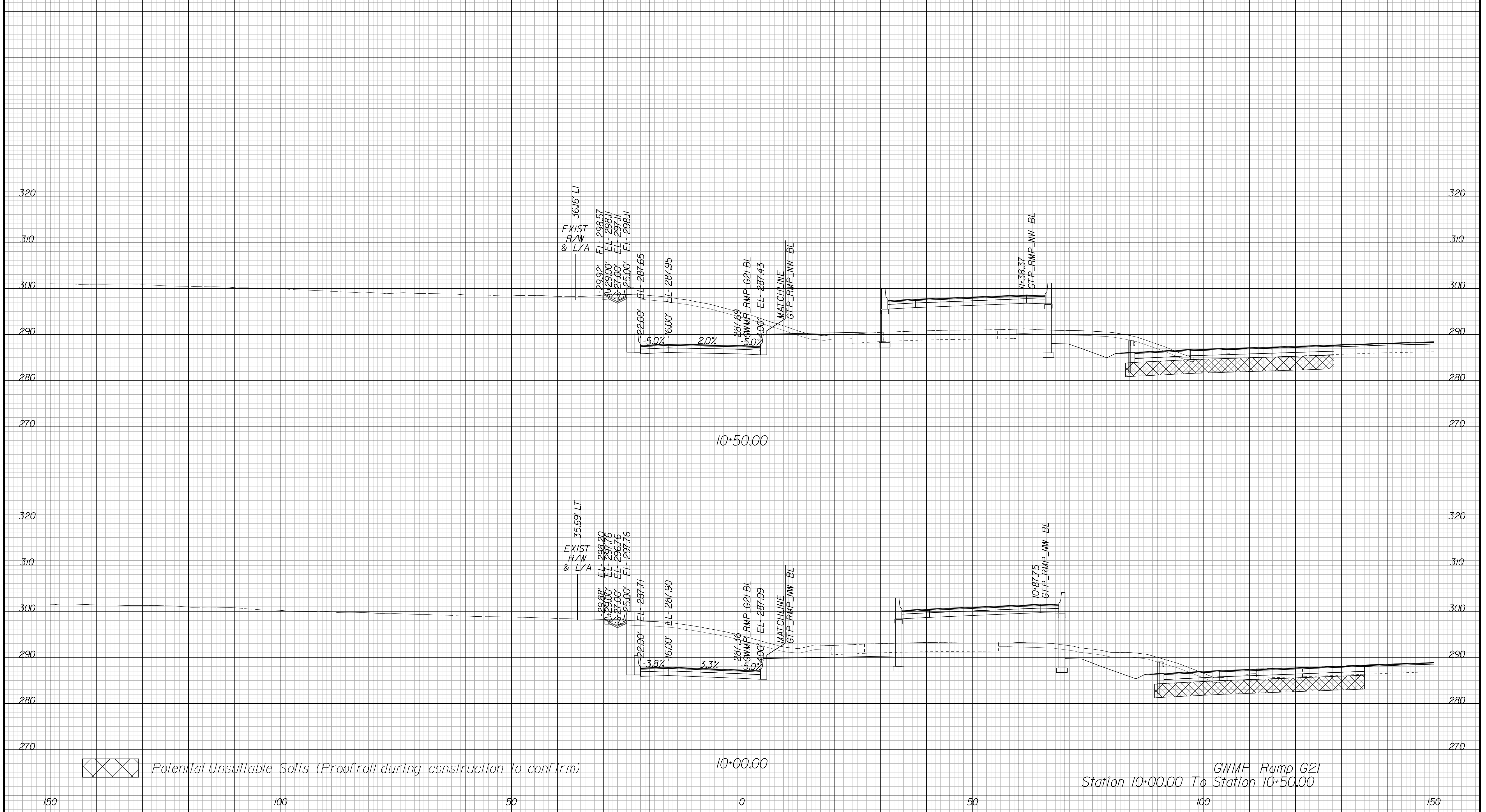
# CROSS SECTIONS

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	X309 AREA 3

*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 10+00.00 To Station 10+50.00

PROJECT	SHEET NO.
0495-029-419	X309

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

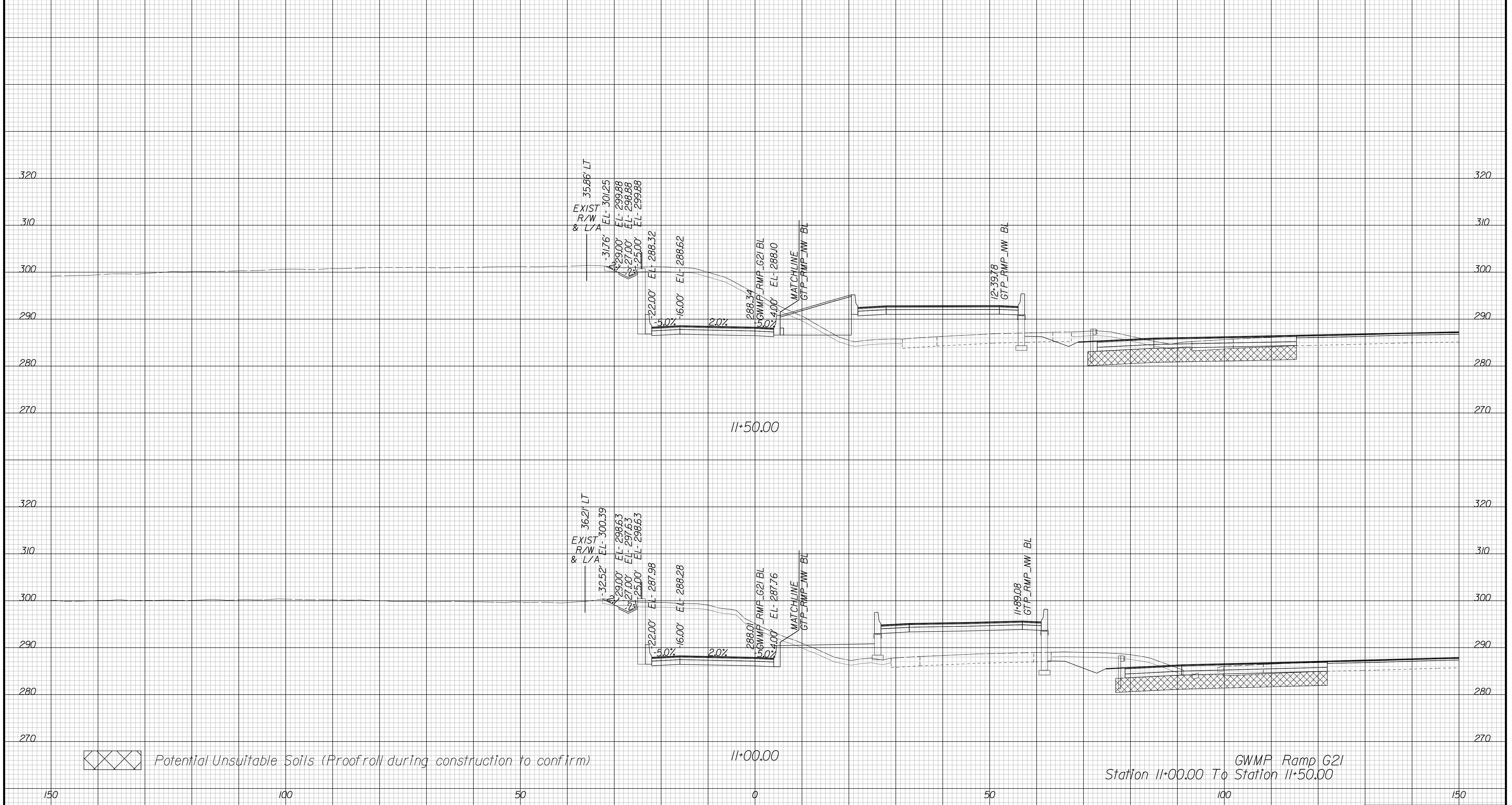
# CROSS SECTIONS

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	X310 AREA 3

*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 11+00.00 To Station 11+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 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	X311 AREA 3

*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	X311

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

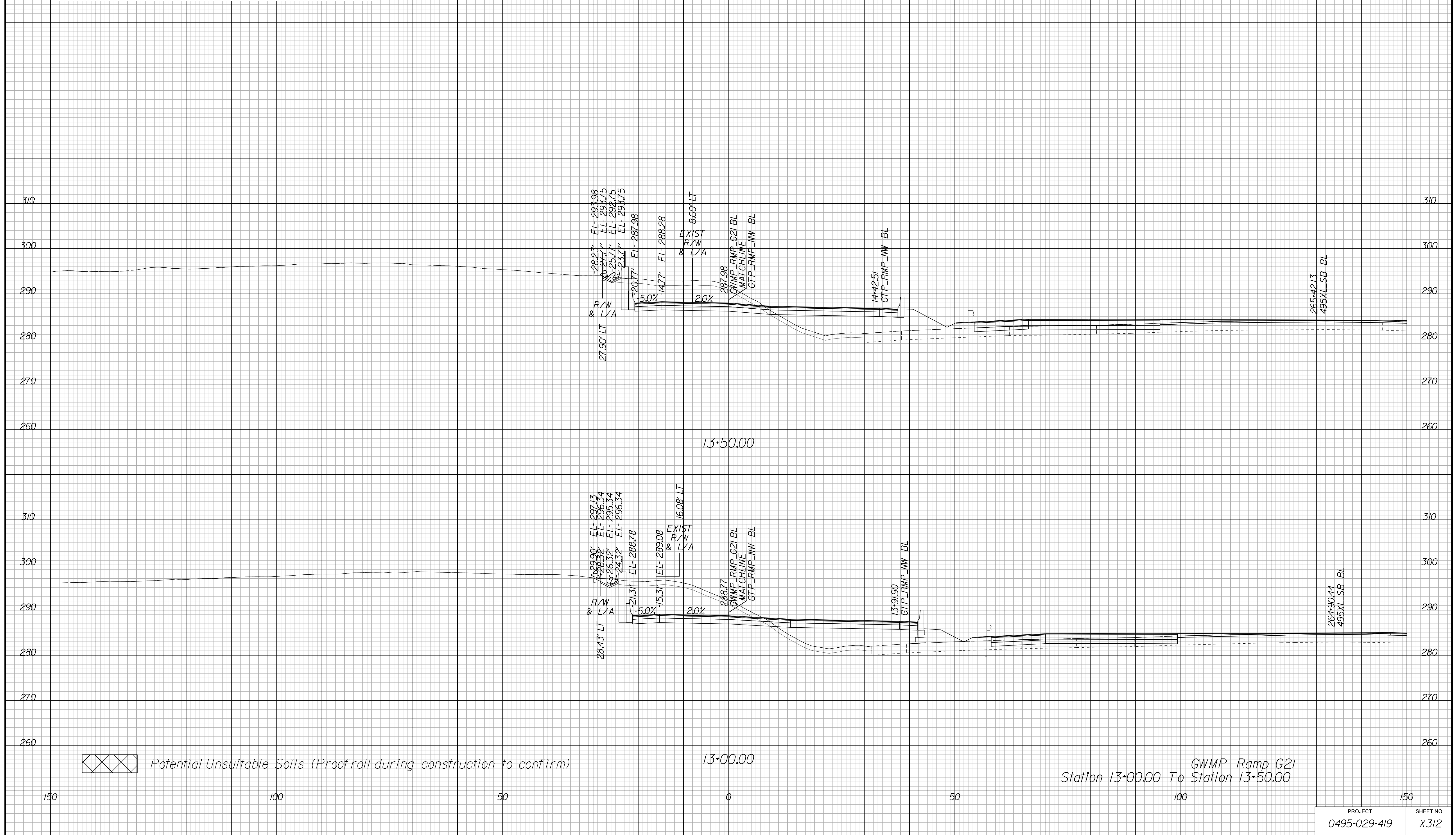
# CROSS SECTIONS

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	X312 AREA 3

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	X312



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, Dawbercy - Ron Jakominich PE (703) 849-0651  
SUBSURFACE UTILITY BY DATE Accurmark - Michael Taylor LS (703) 635-3060, 12/2021

# CROSS SECTIONS

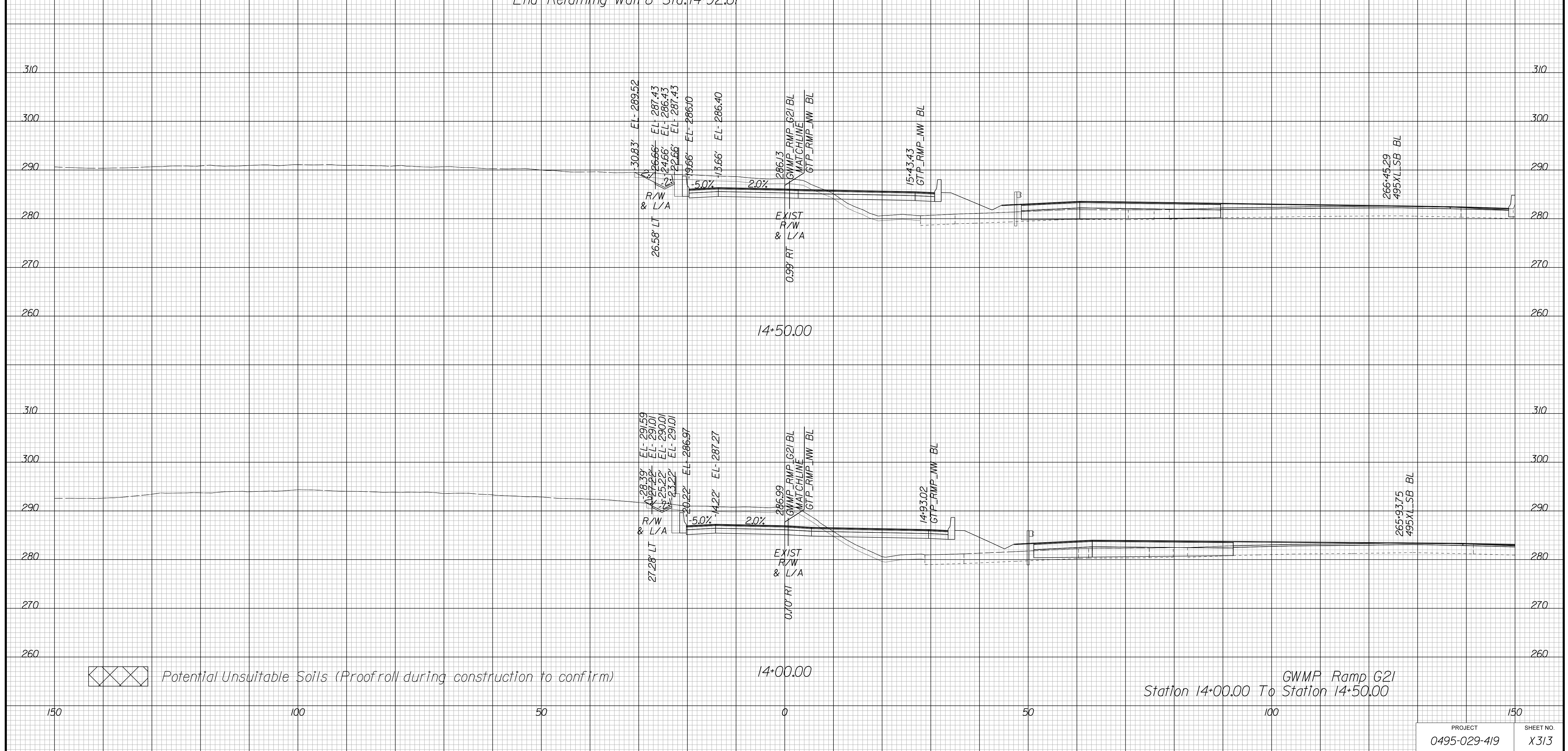
SCALE 1 IN. = 10 FT

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	X313 AREA 3

*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 @ Sta. 14+92.61



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, Dawberly - Ron Jakominich PE (703) 849-0651  
SUBSURFACE UTILITY BY DATE Accurmark - Michael Taylor LS (703) 635-3060, 12/2021

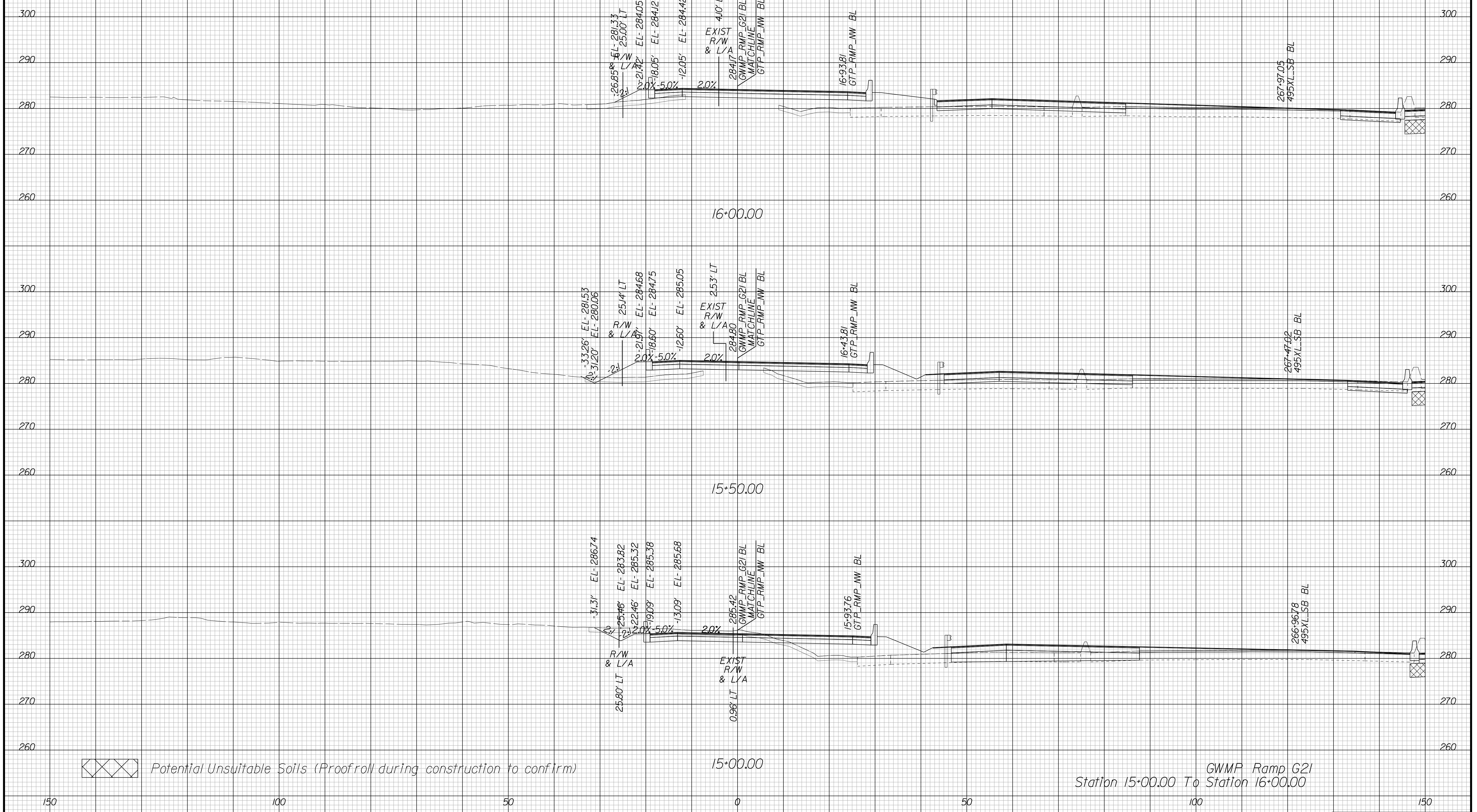
# CROSS SECTIONS

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	X314 AREA 3

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 15+00.00 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 - 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

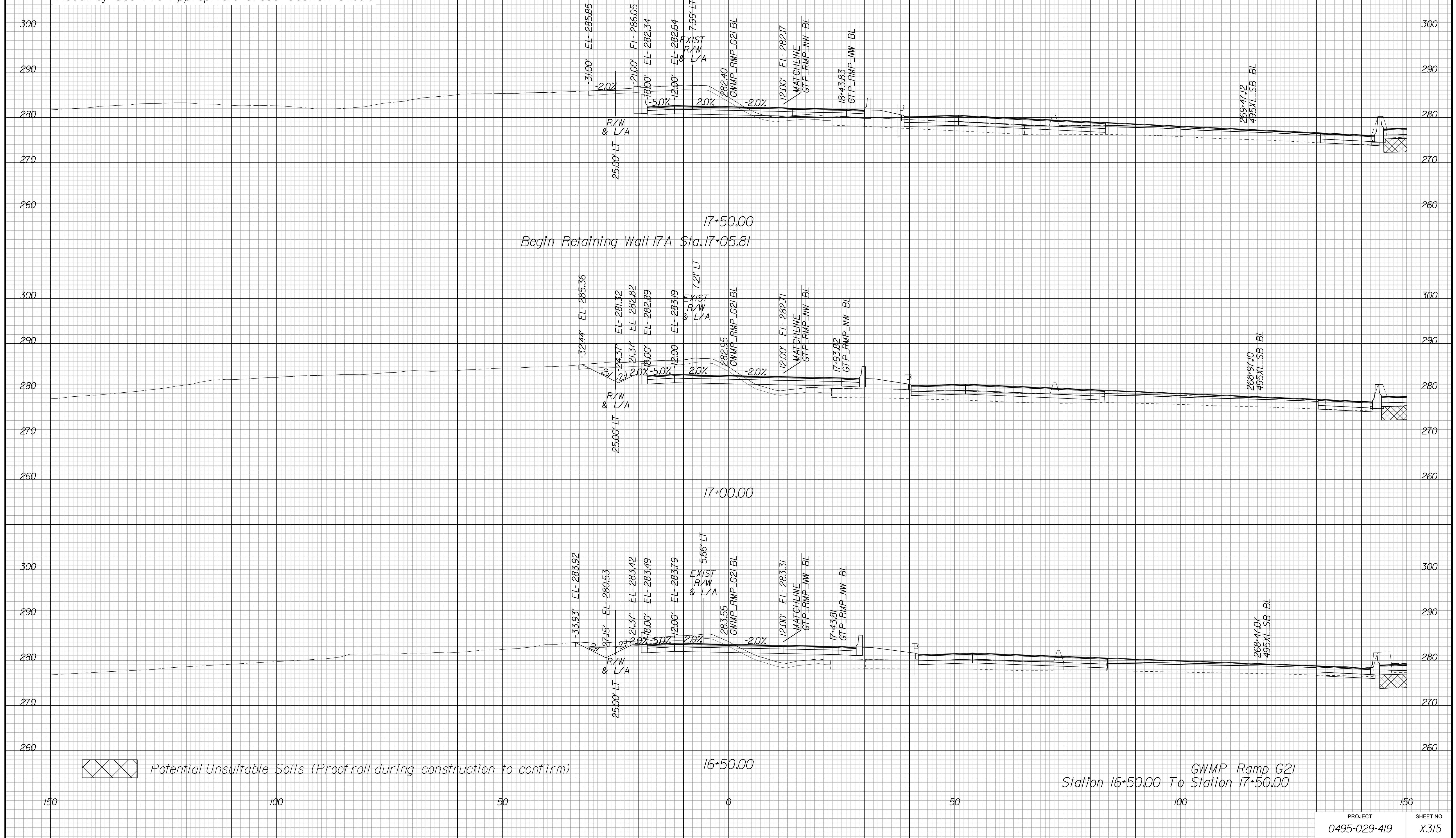
# CROSS SECTIONS

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	X315 AREA 3

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

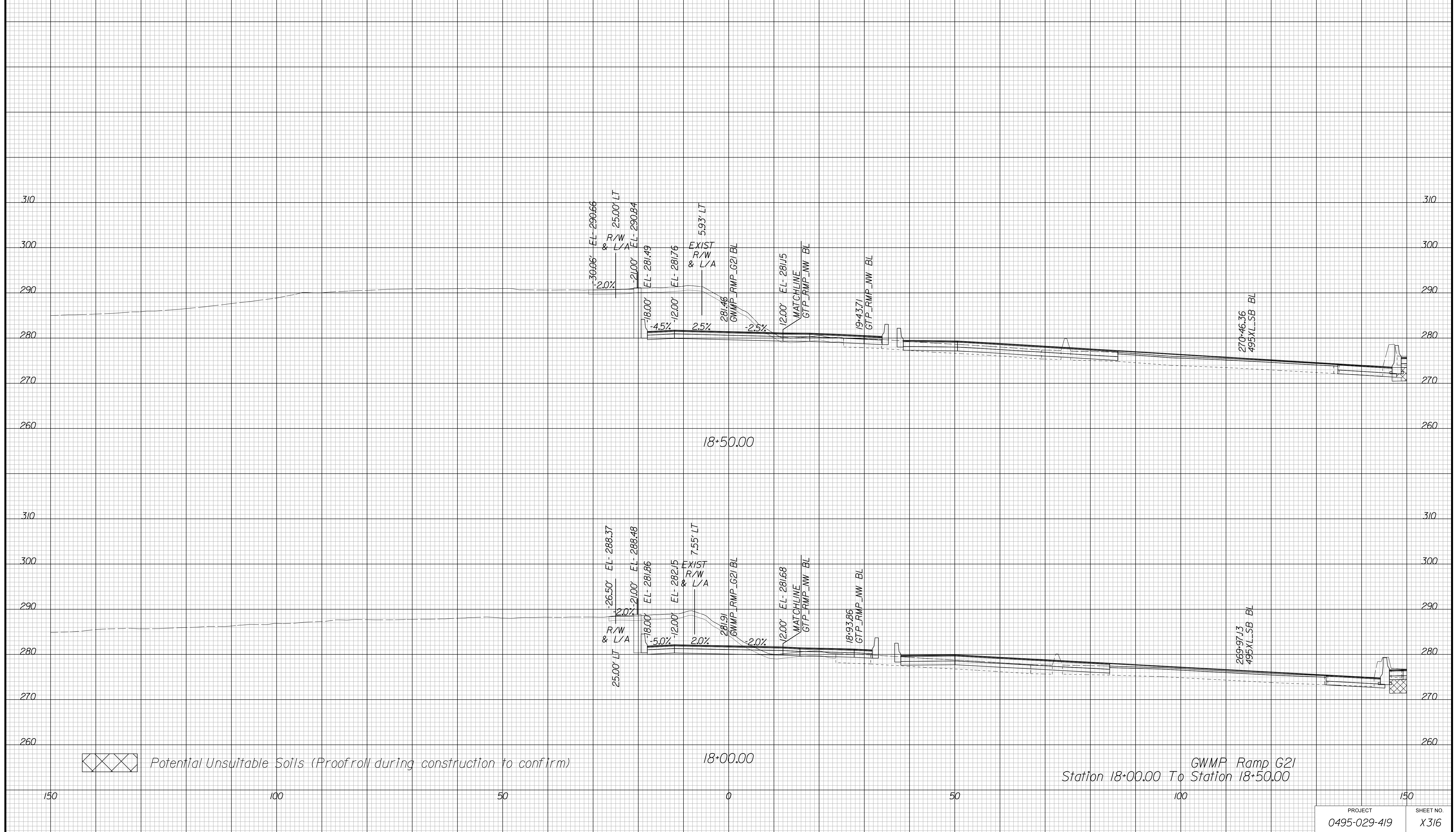
# CROSS SECTIONS

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	X316 AREA 3

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

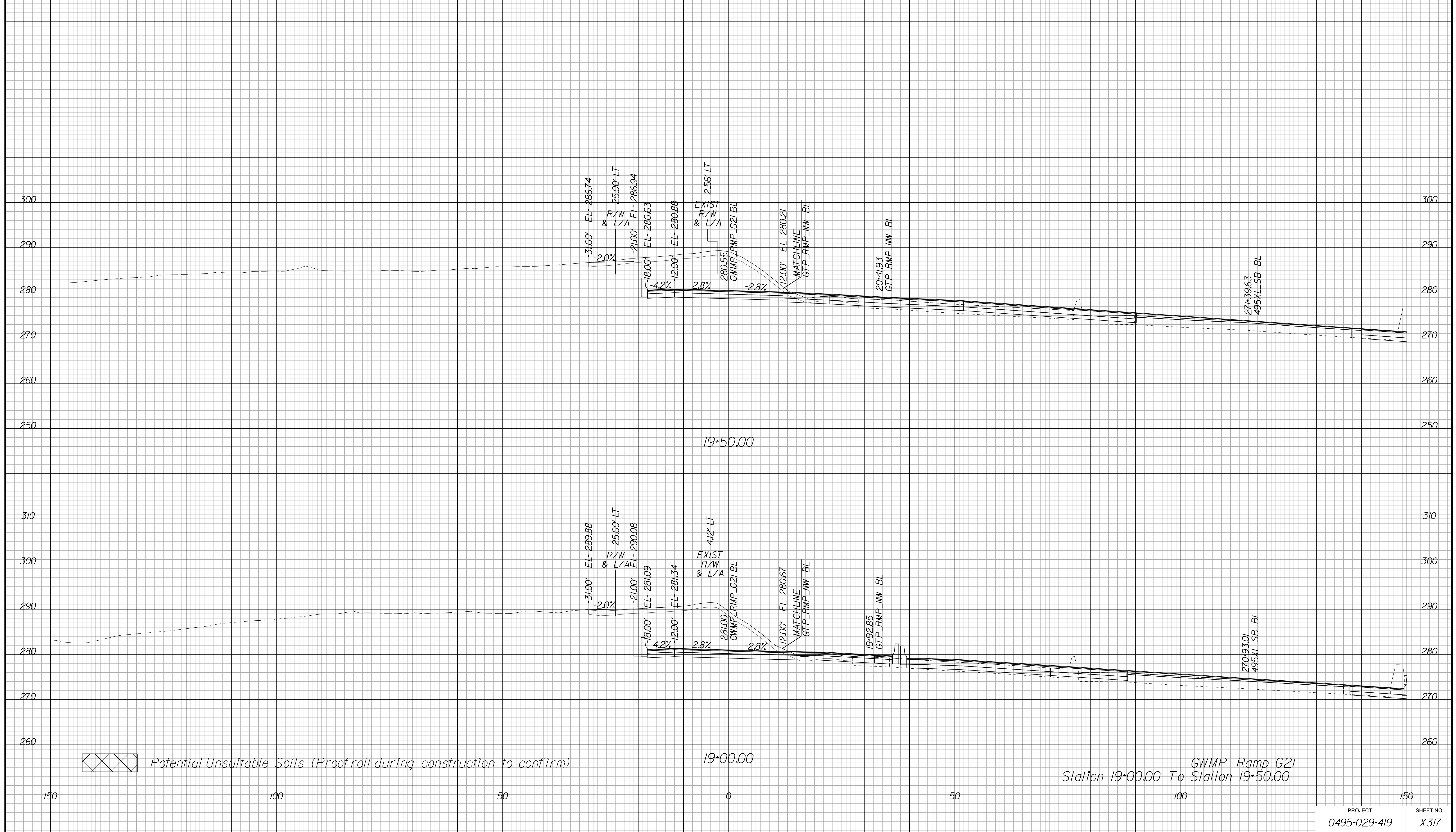
# CROSS SECTIONS

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	X317 AREA 3

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

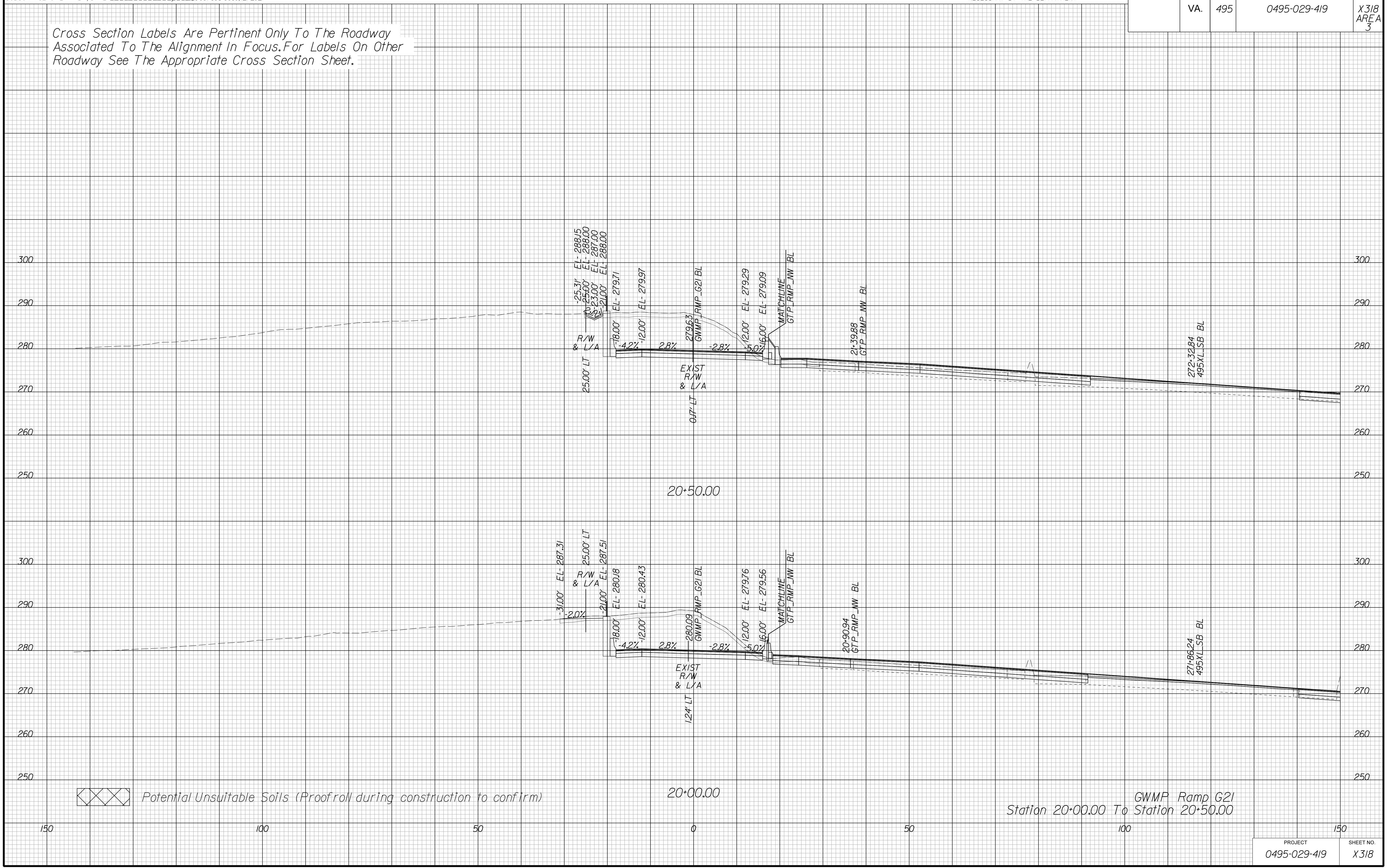
# CROSS SECTIONS

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	X318 AREA 3

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

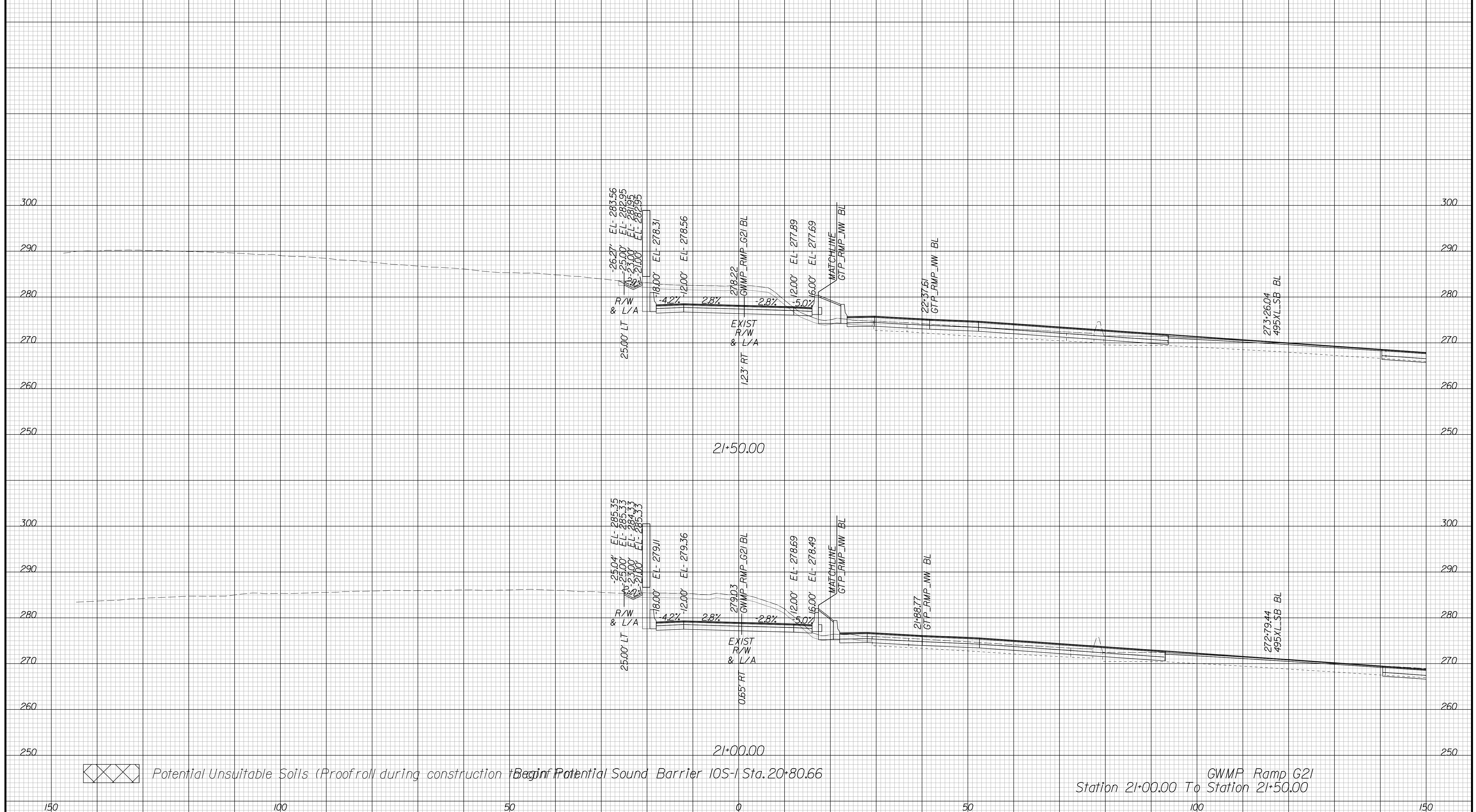
# CROSS SECTIONS

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	X319 AREA 3

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) Begin Potential Sound Barrier 10S-1 Sta. 20+80.66

GWMP Ramp G21 Station 21+00.00 To Station 21+50.00

PROJECT	SHEET NO.
0495-029-419	X319

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

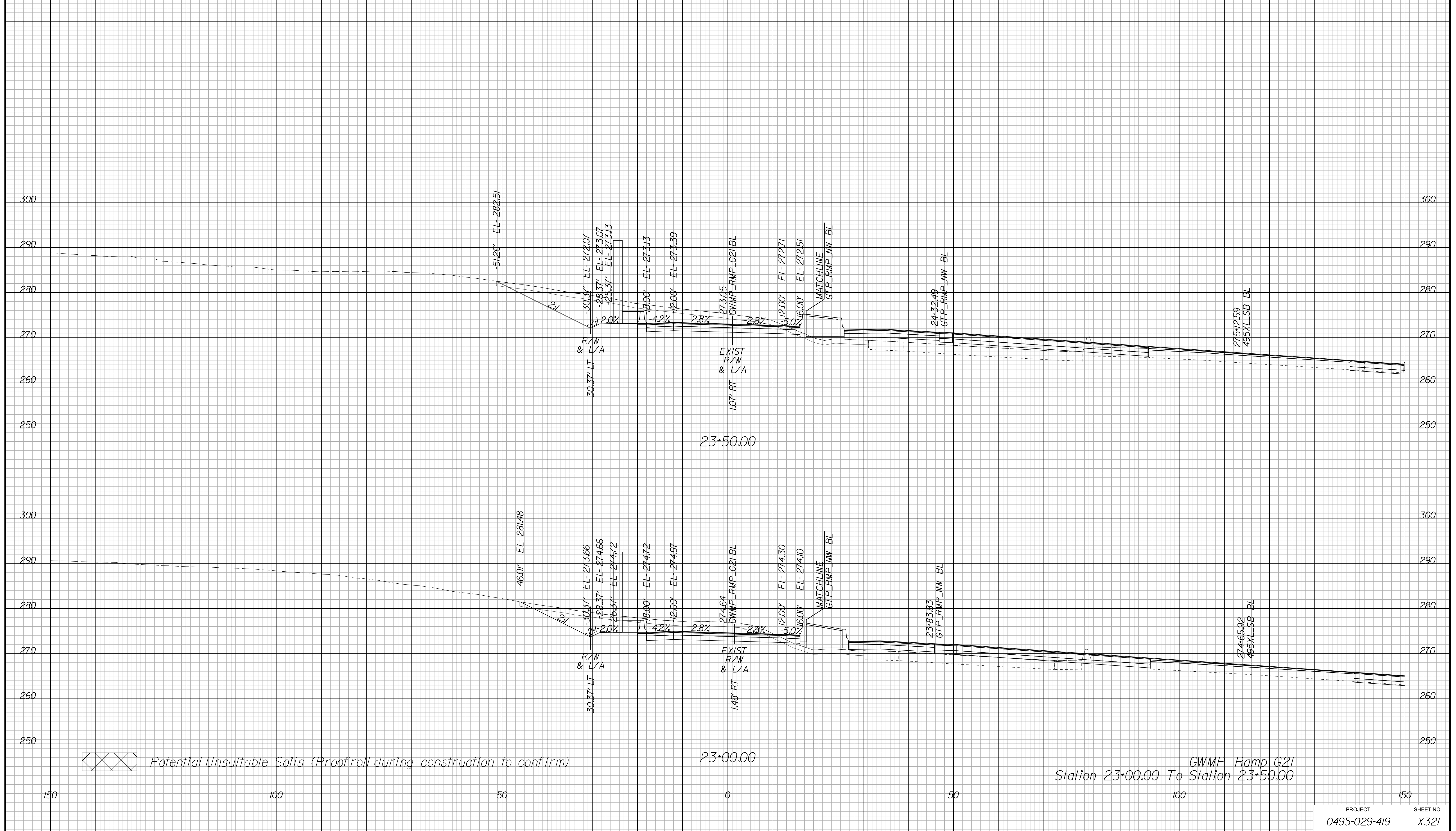
# CROSS SECTIONS

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	X321 AREA 3

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 23+00.00 To Station 23+50.00

APPROVED FOR CONSTRUCTION

PROJECT	SHEET NO.
0495-029-419	X321

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

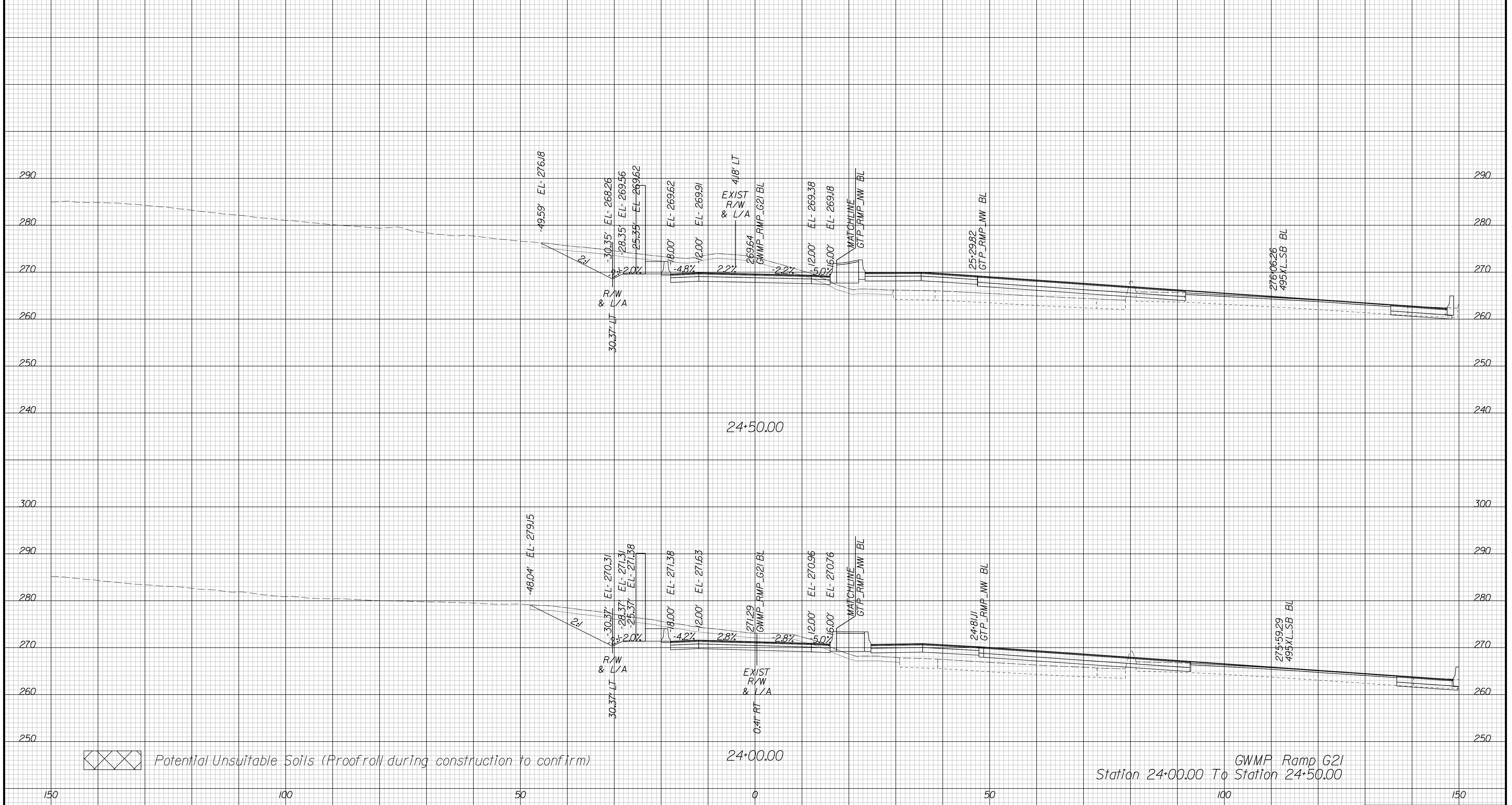
# CROSS SECTIONS

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	X322 AREA 3

*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 24+00.00 To Station 24+50.00

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 - 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

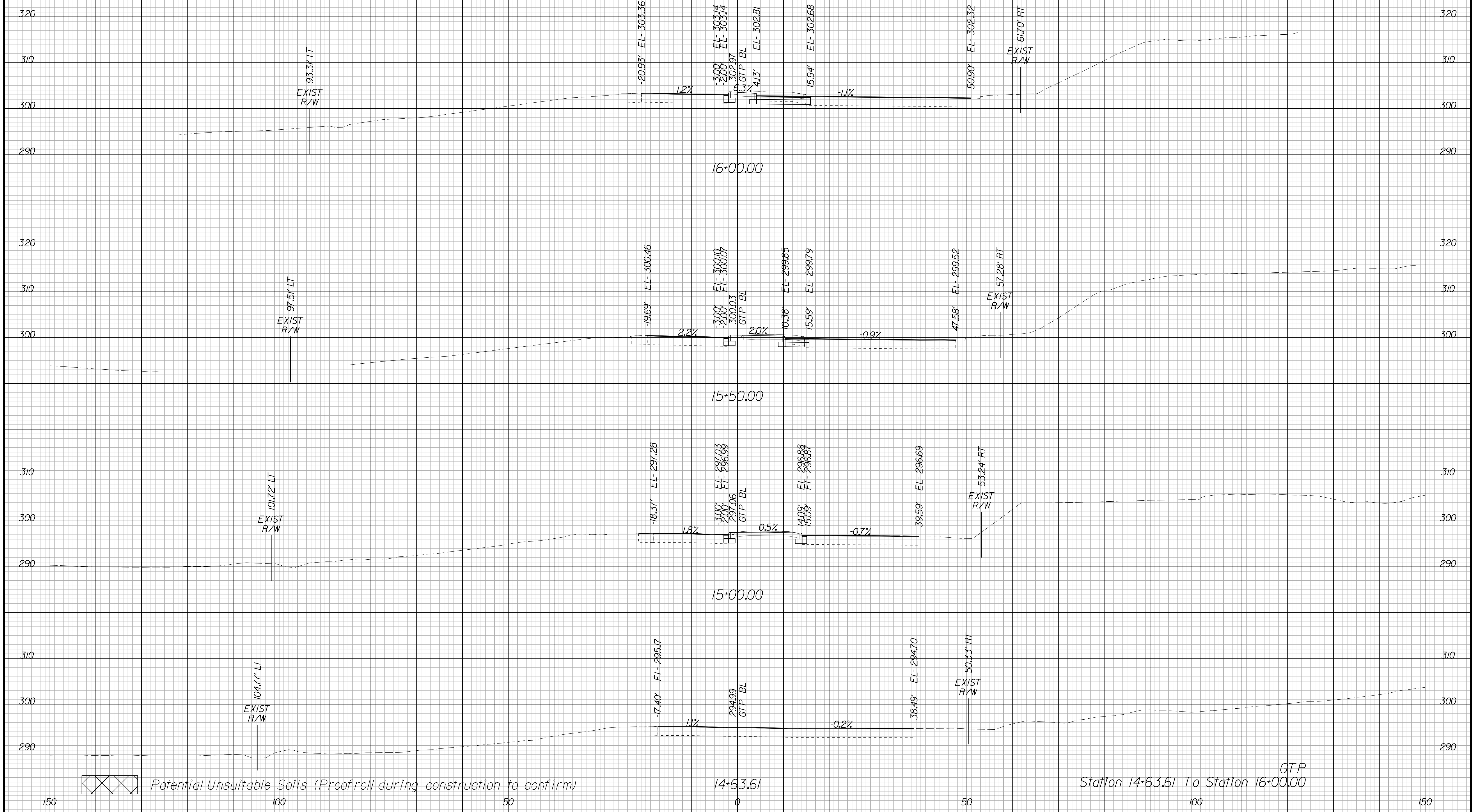
# CROSS SECTIONS

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	X351/AREA 3

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.



GTP Station 14+63.61 To Station 16+00.00

PROJECT	SHEET NO.
0495-029-419	X351

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

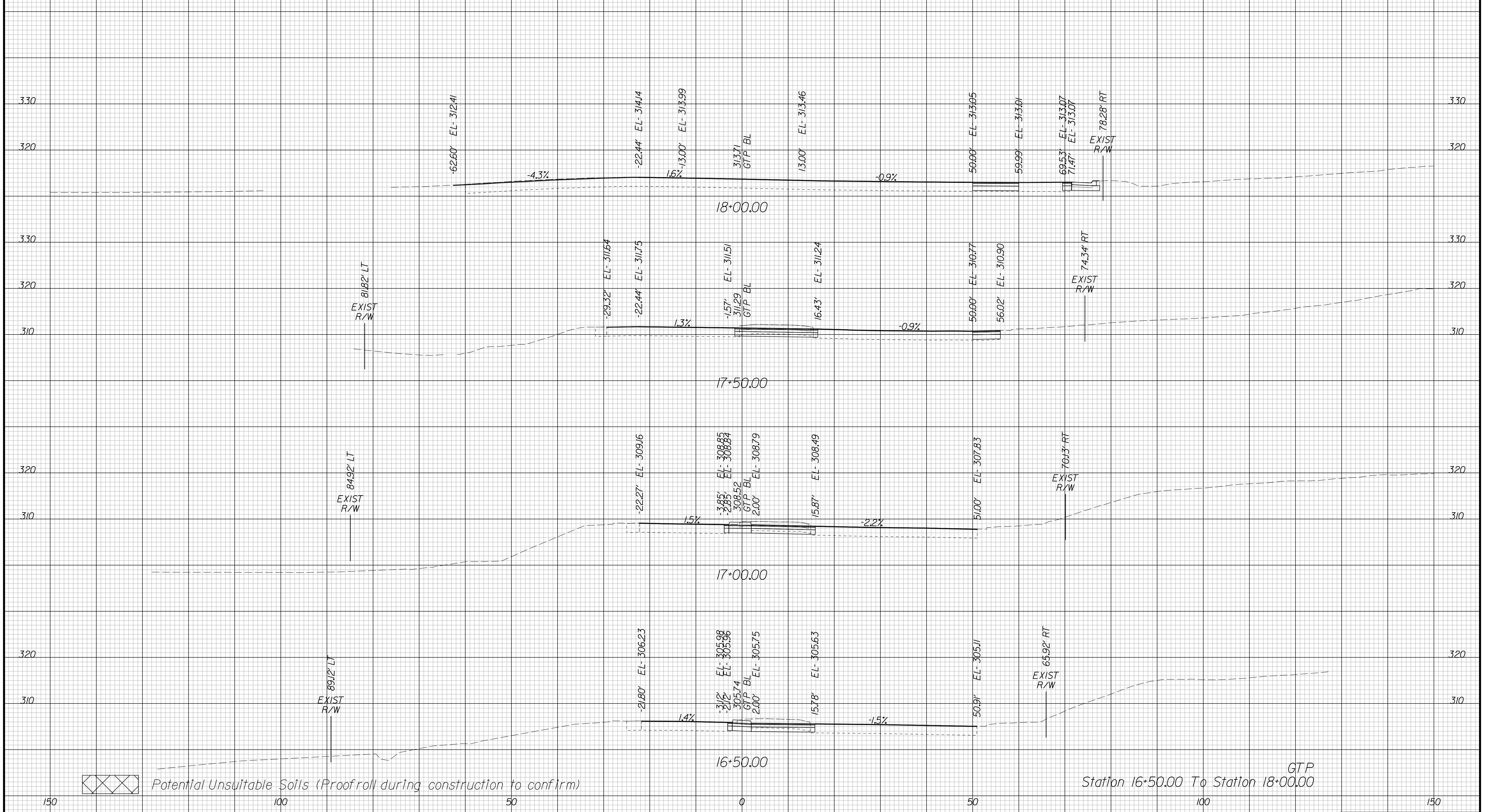
# CROSS SECTIONS

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	X352 AREA 3

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 16+50.00 To Station 18+00.00 GTP

APPROVED FOR CONSTRUCTION

PROJECT MANAGER VDOT - Bimbal Stab 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

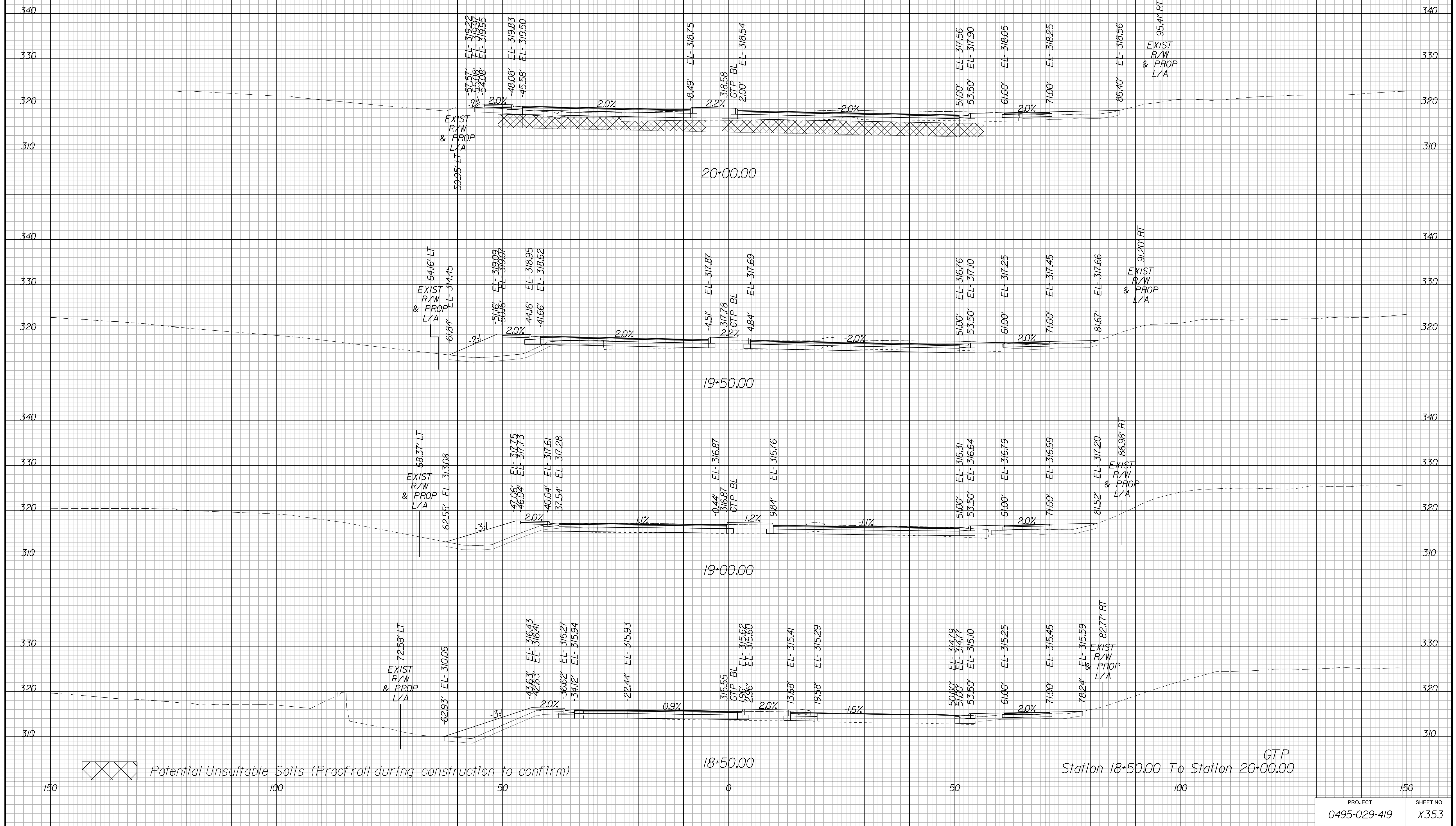
# CROSS SECTIONS

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	X353 AREA 3

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 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

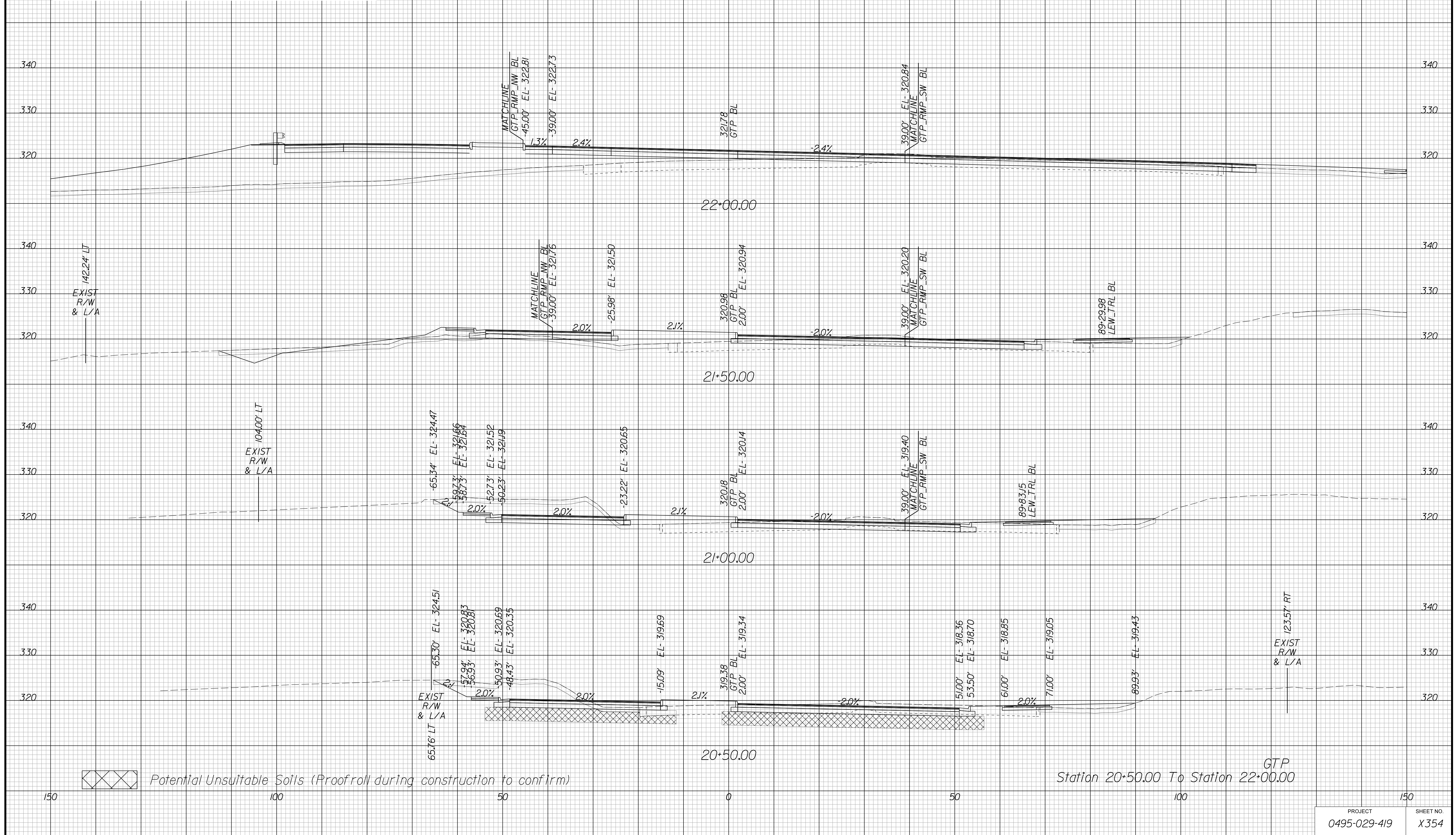
# CROSS SECTIONS

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	X354 AREA 3

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

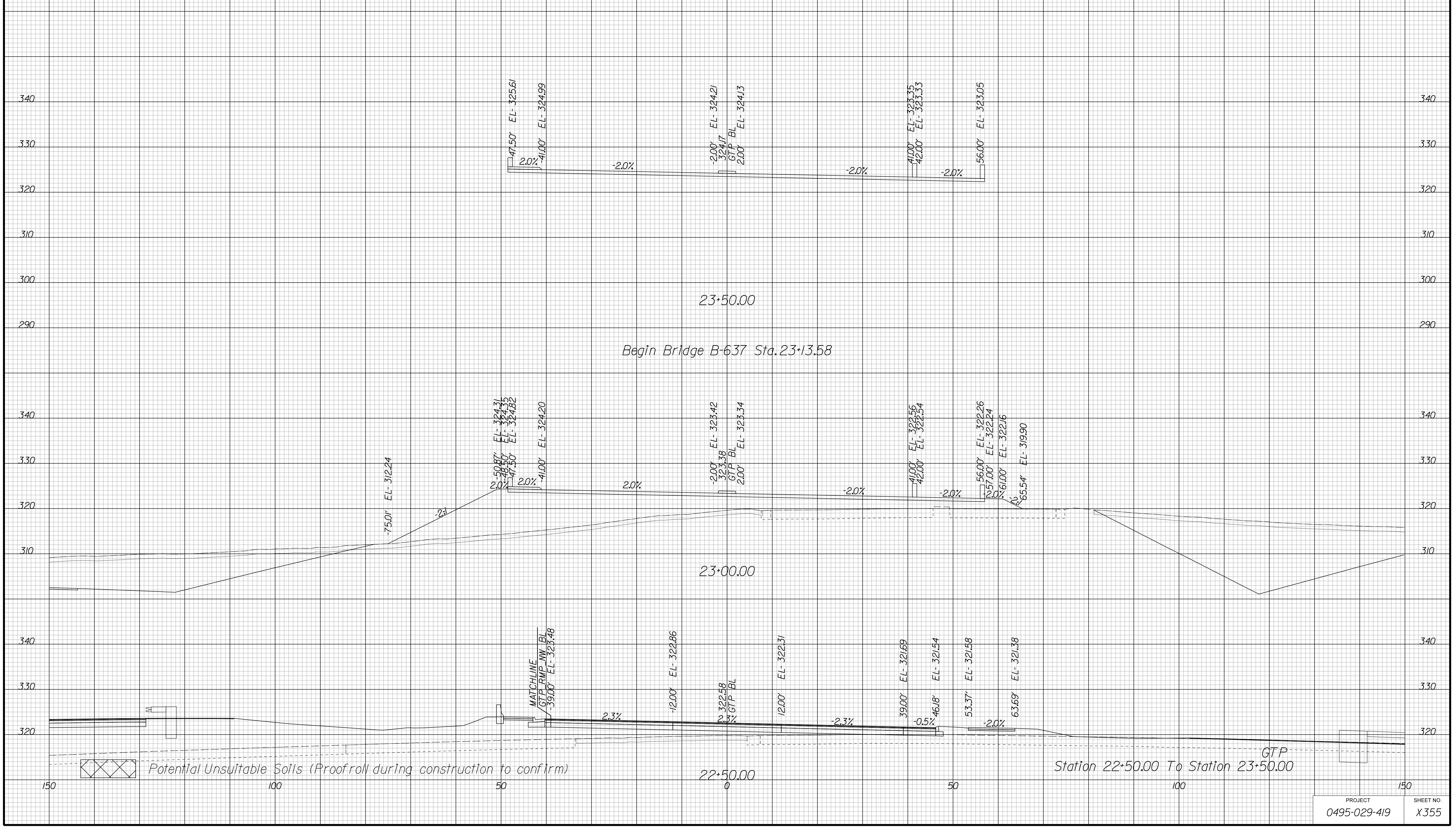
# CROSS SECTIONS

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	X355 AREA 3

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

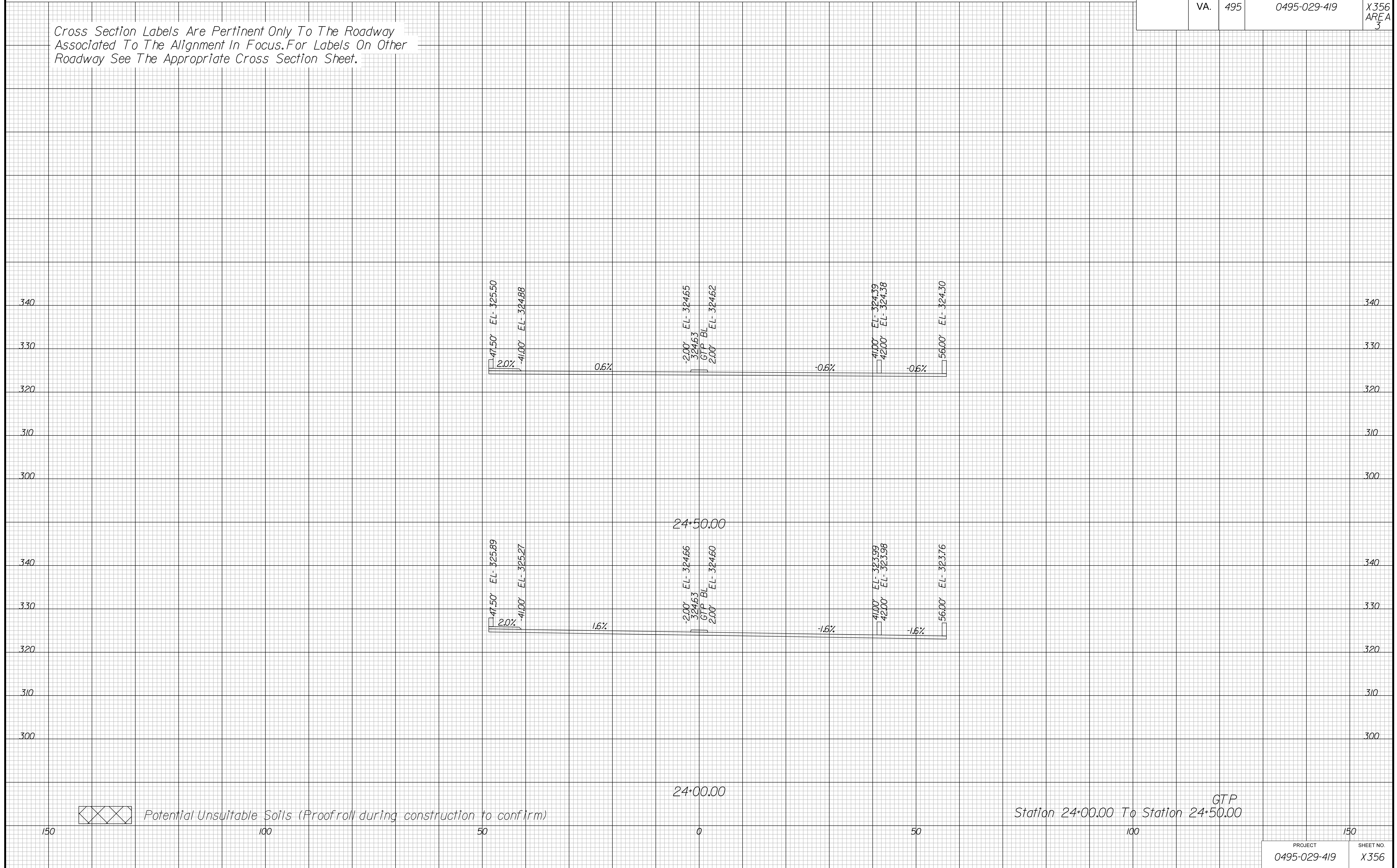
# CROSS SECTIONS

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	X356 AREA 3

*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 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

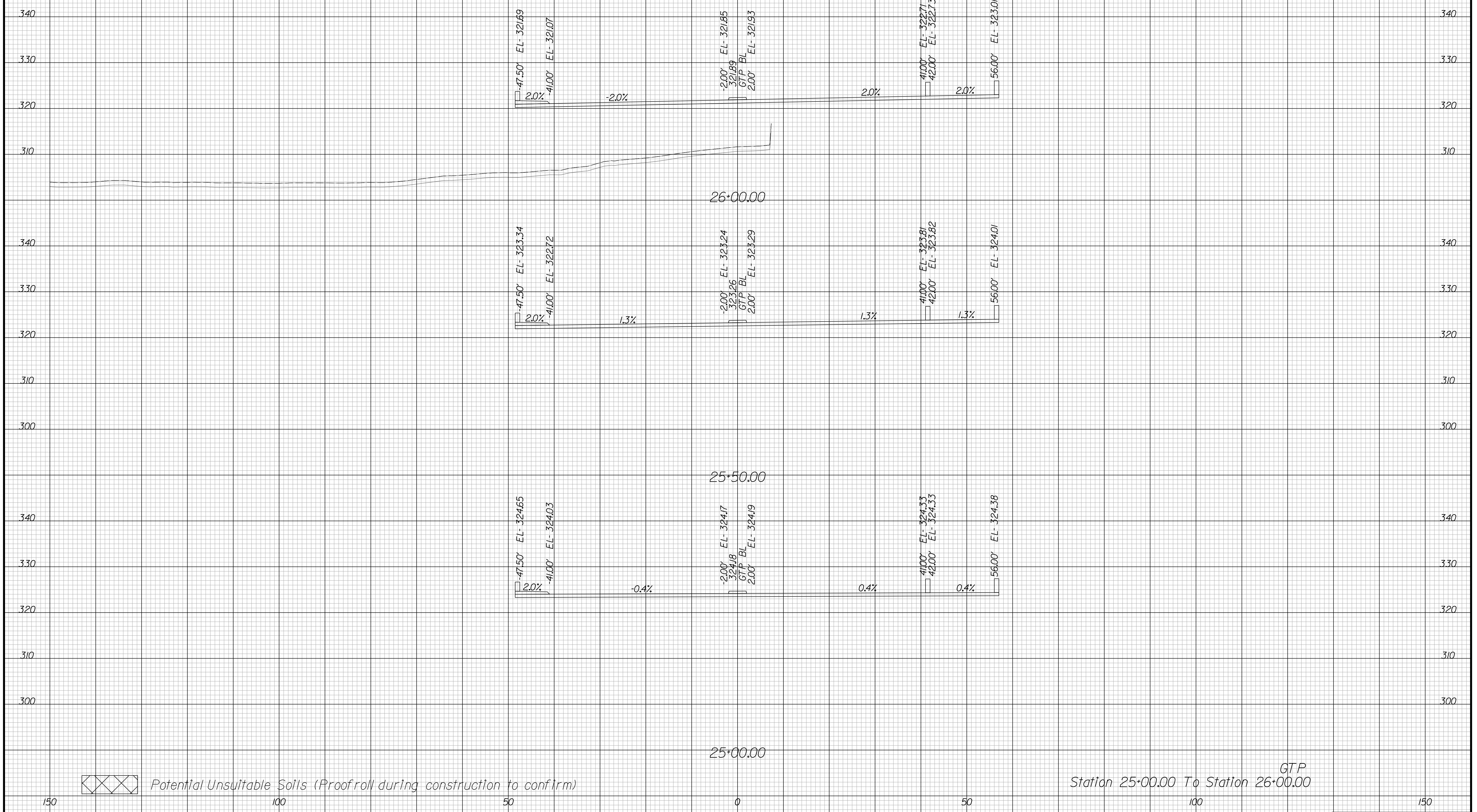
SCALE 1 IN. = 10 FT

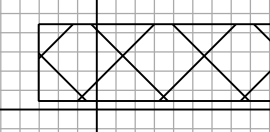
DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT

REVISED	STATE	ROUTE	STATE	PROJECT	SHEET NO.
	VA.	495		0495-029-419	X357 AREA 3

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 Bridge B-637 Sta. 26+05.66



 Potential Unsuitable Soils (Proofroll during construction to confirm)

GTP Station 25+00.00 To Station 26+00.00

PROJECT	SHEET NO.
0495-029-419	X357

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

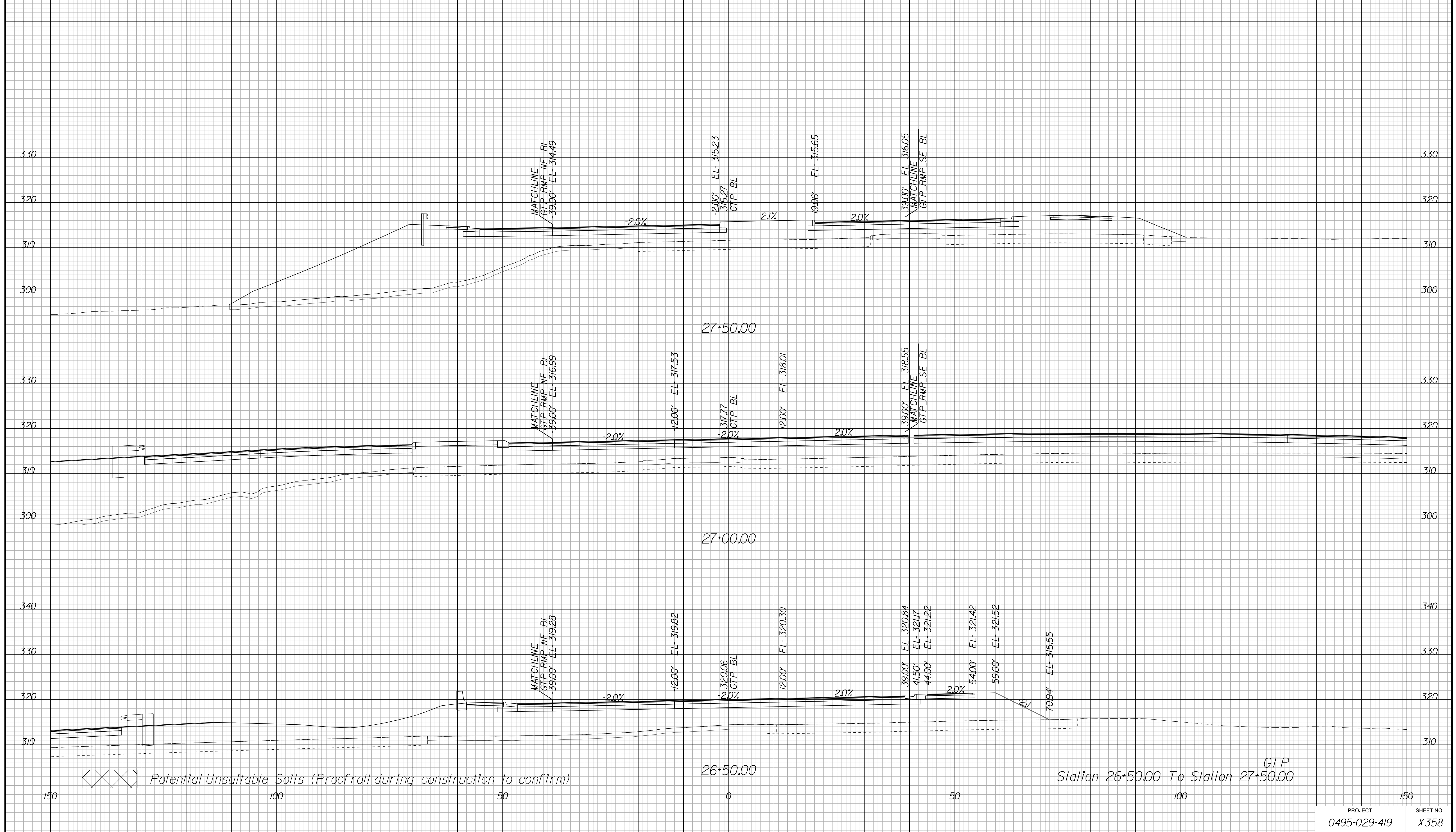
# CROSS SECTIONS

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

REVISED	STATE	ROUTE	STATE PROJECT	SHEET NO.
	VA.	495	0495-029-419	X358 AREA 3

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, Dawberly - Ron Jakominich PE (703) 849-0651  
SUBSURFACE UTILITY BY DATE Accurmark - Michael Taylor LS (703) 635-3060, 12/2021

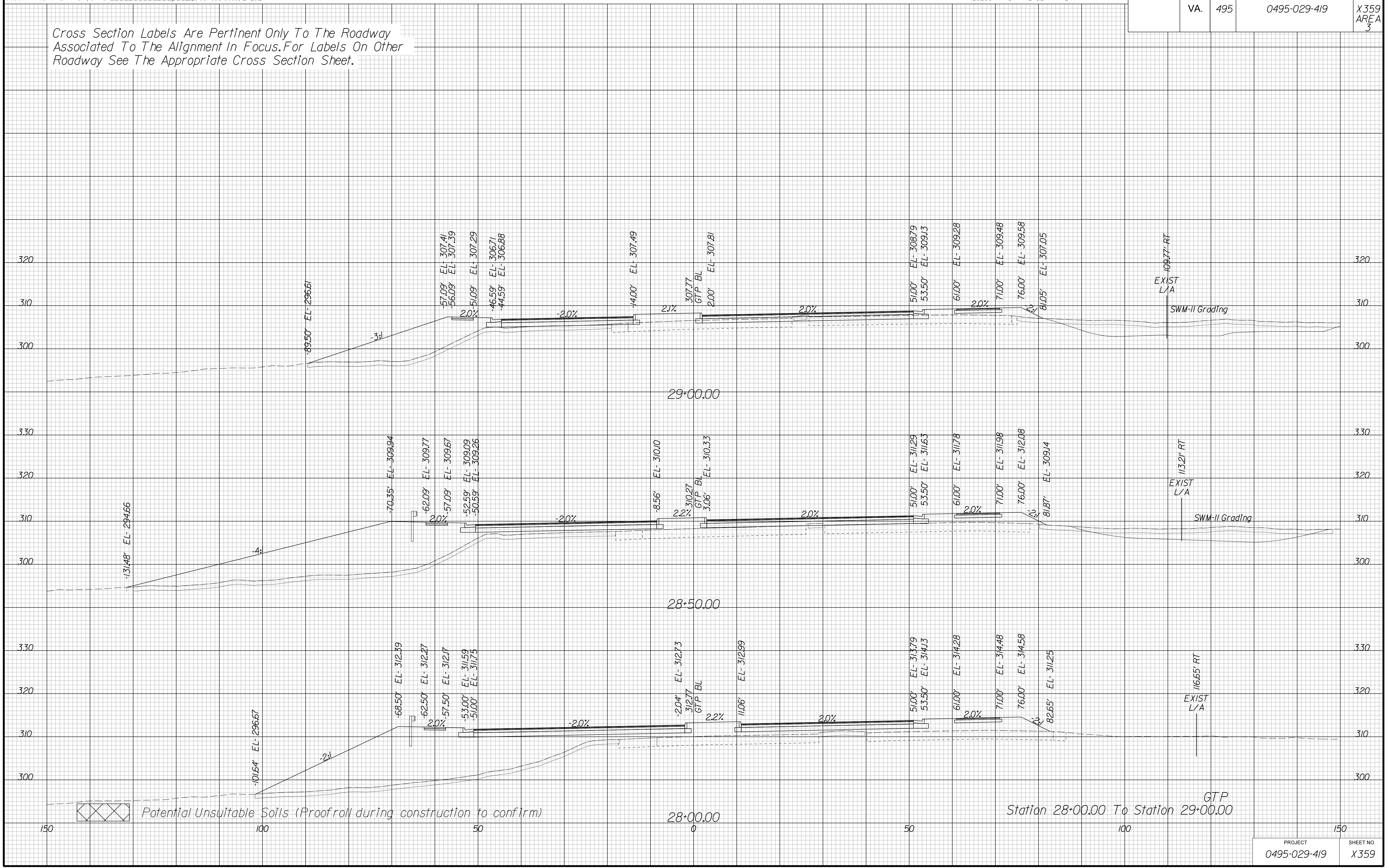
# CROSS SECTIONS

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	X359 AREA 3

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

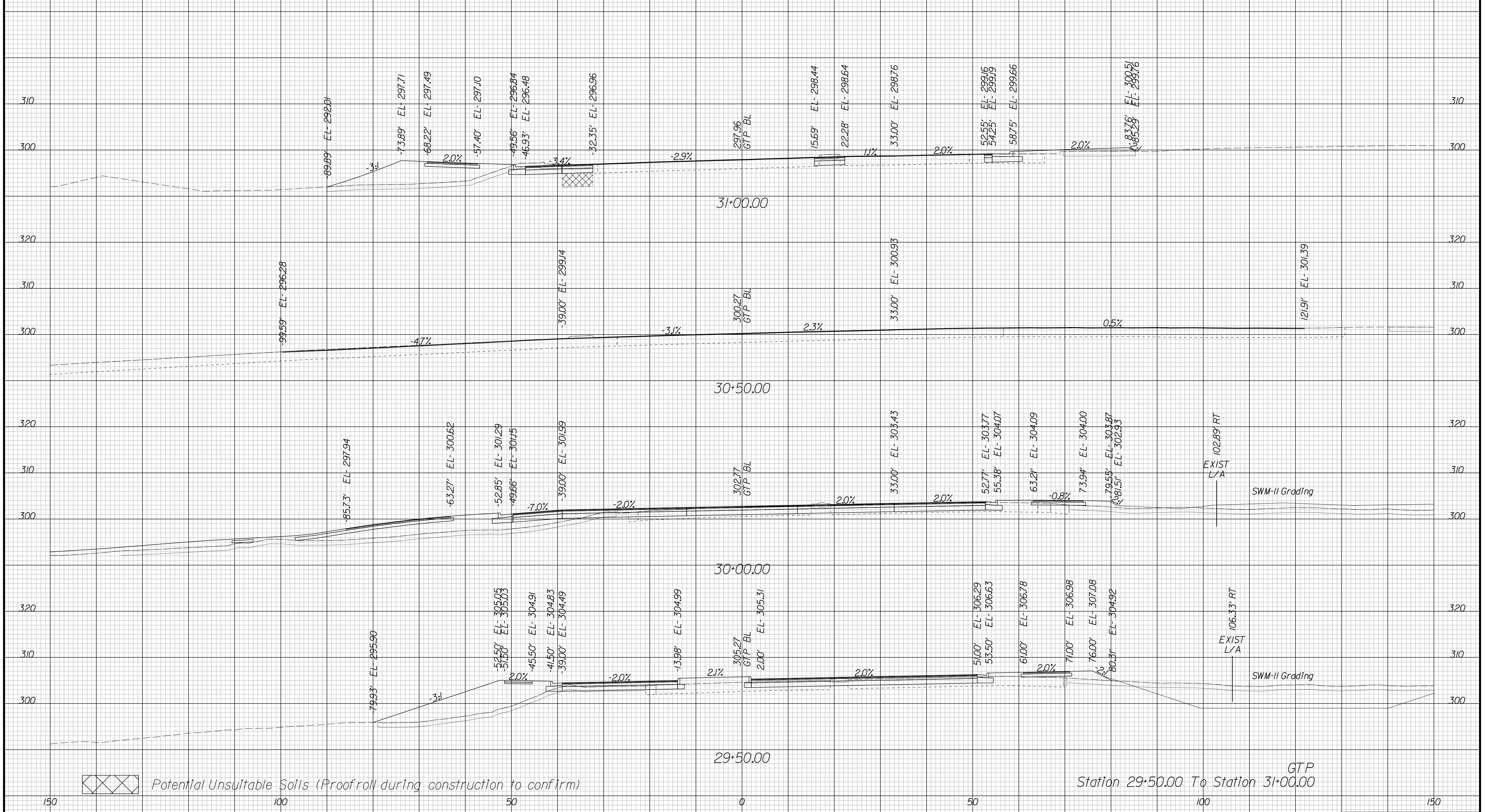
# CROSS SECTIONS

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	X360 AREA 3

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 29+50.00 To Station 31+00.00 GTP

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

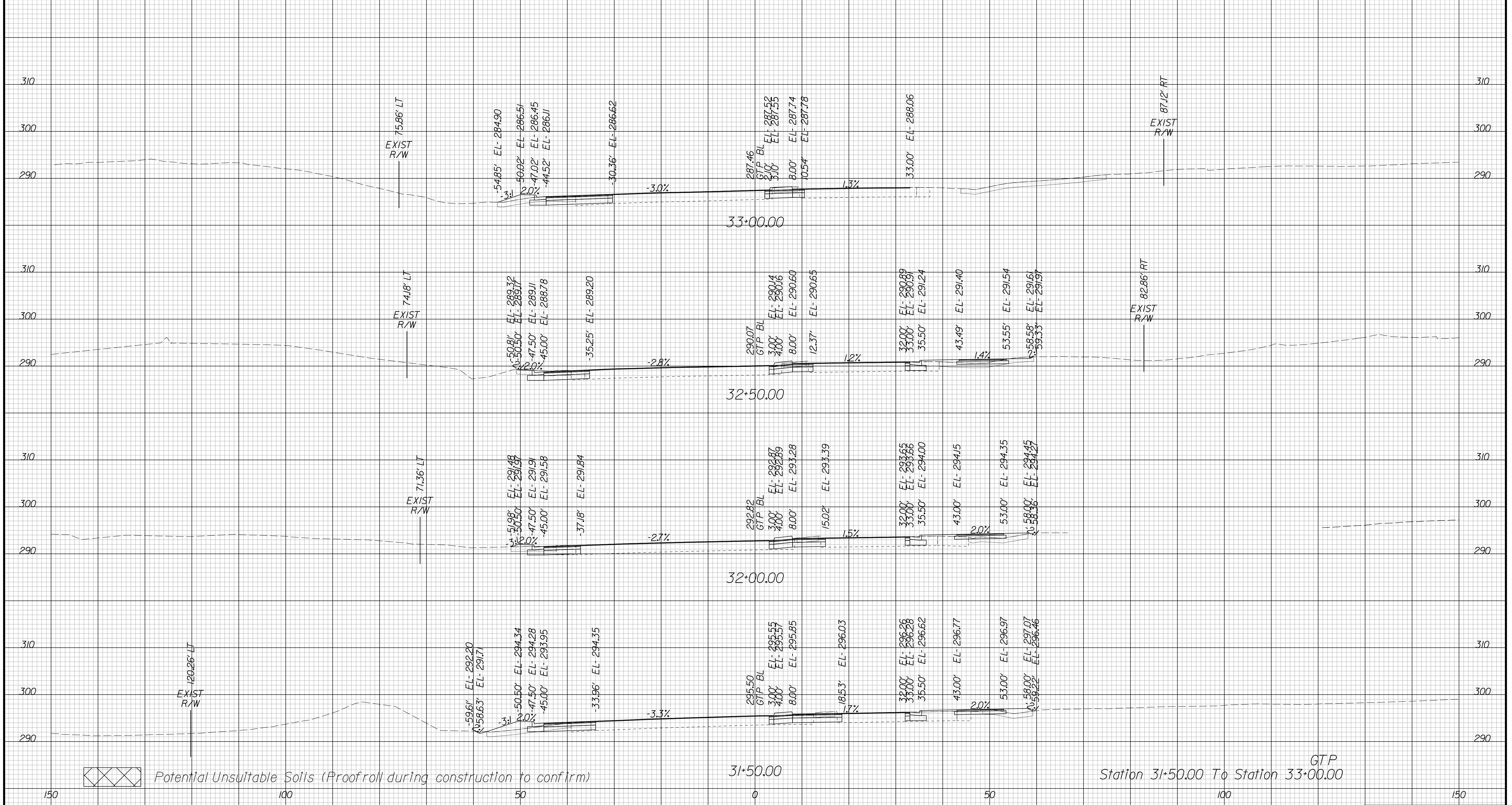
# CROSS SECTIONS

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	X361 AREA 3

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

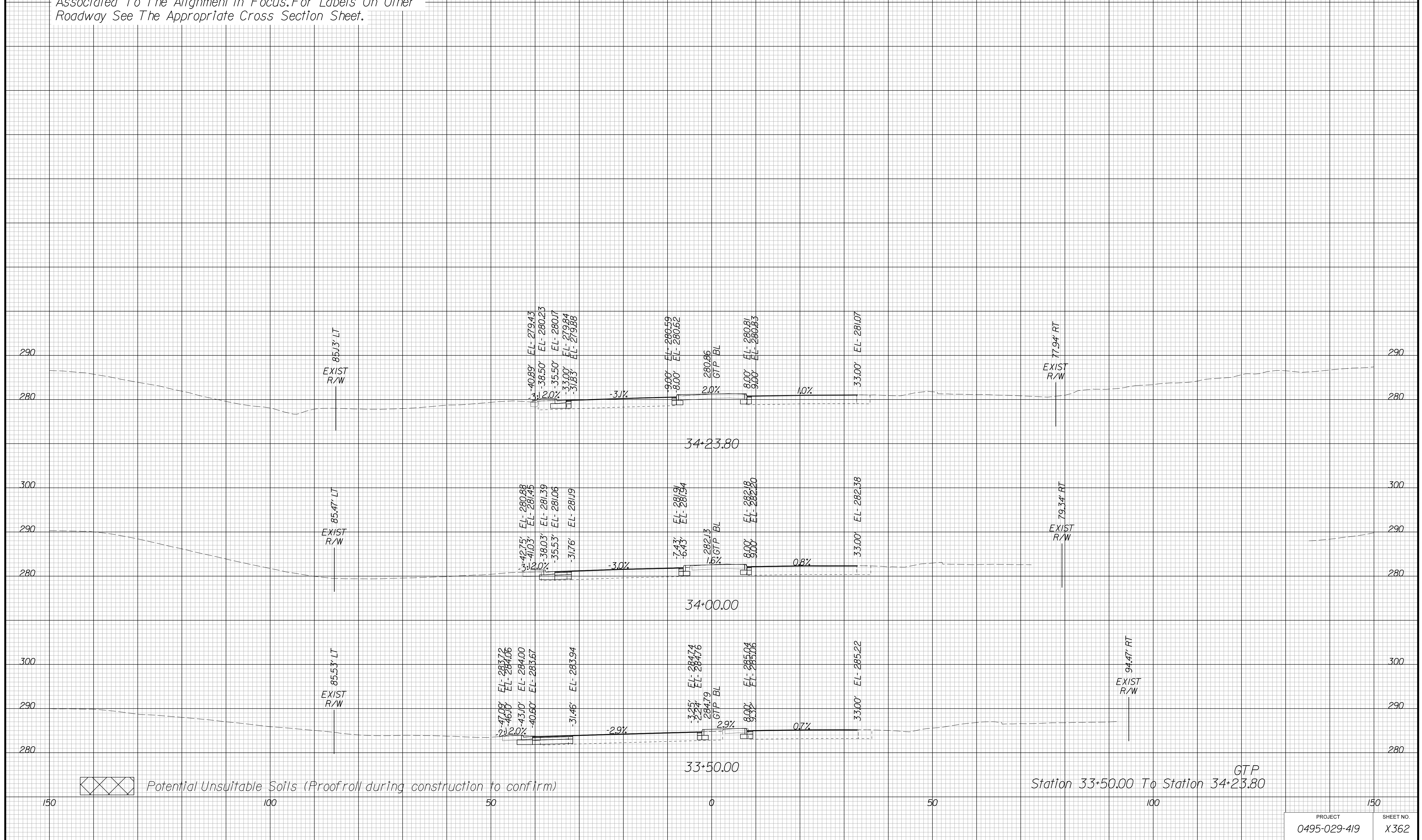
# CROSS SECTIONS

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	X362 AREA 3

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

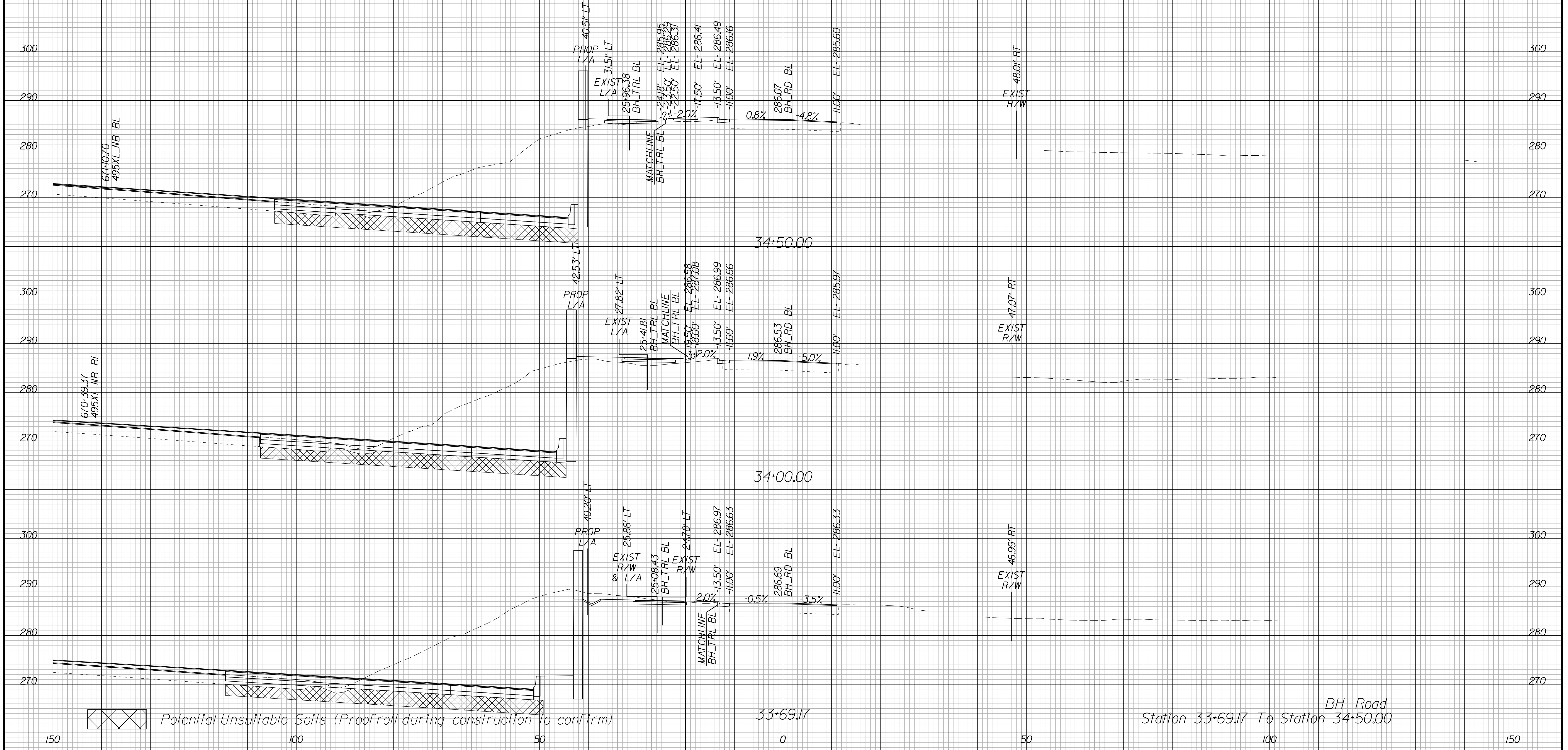
# CROSS SECTIONS

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	X401 AREA 3

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

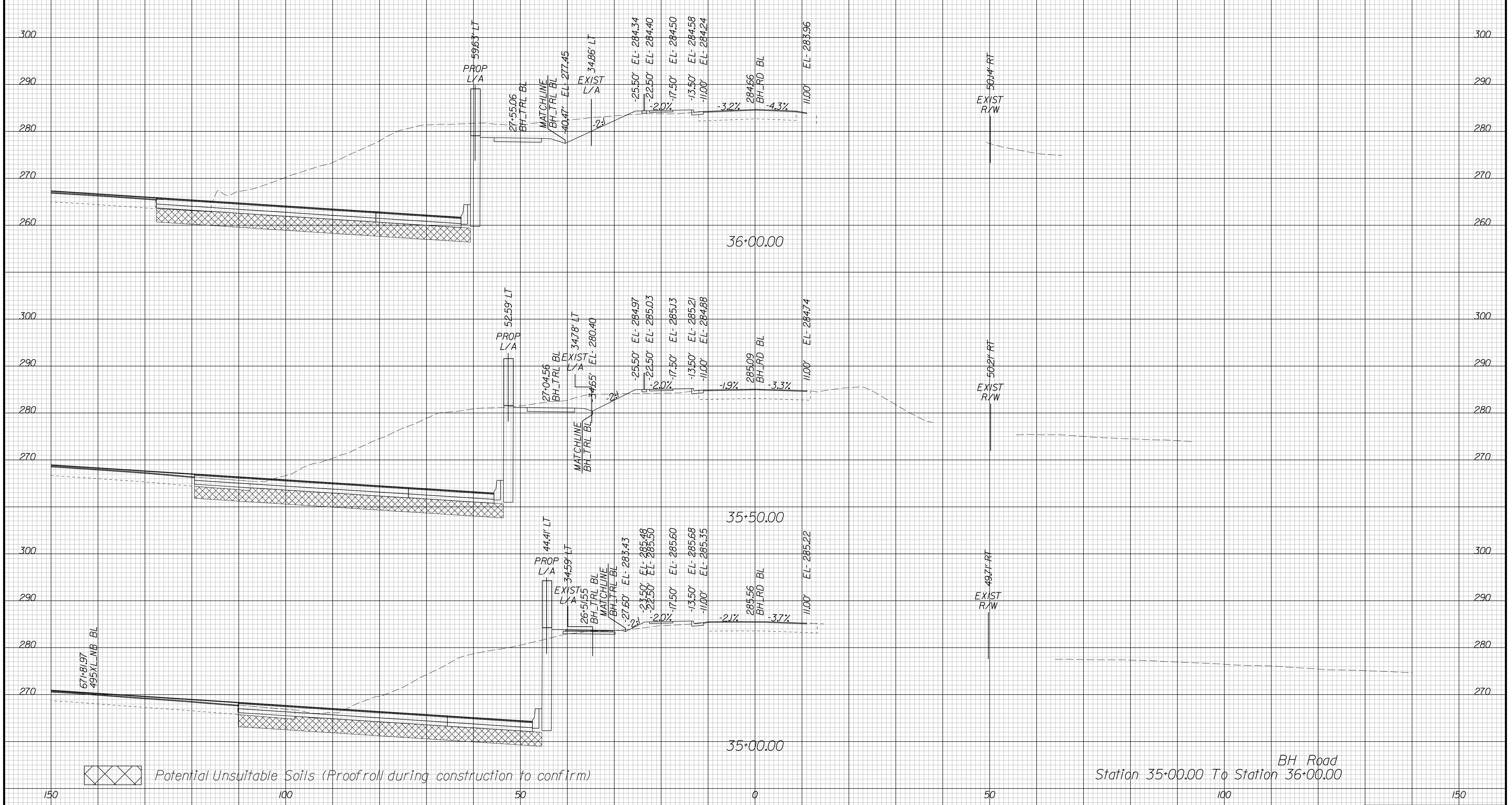
# CROSS SECTIONS

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	X402 AREA 3

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.



BH Road  
Station 35+00.00 To Station 36+00.00

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, Dawbercy - Ron Jakominich PE (703) 849-0651  
SUBSURFACE UTILITY BY DATE Accurmark - Michael Taylor LS (703) 635-3060, 12/2021

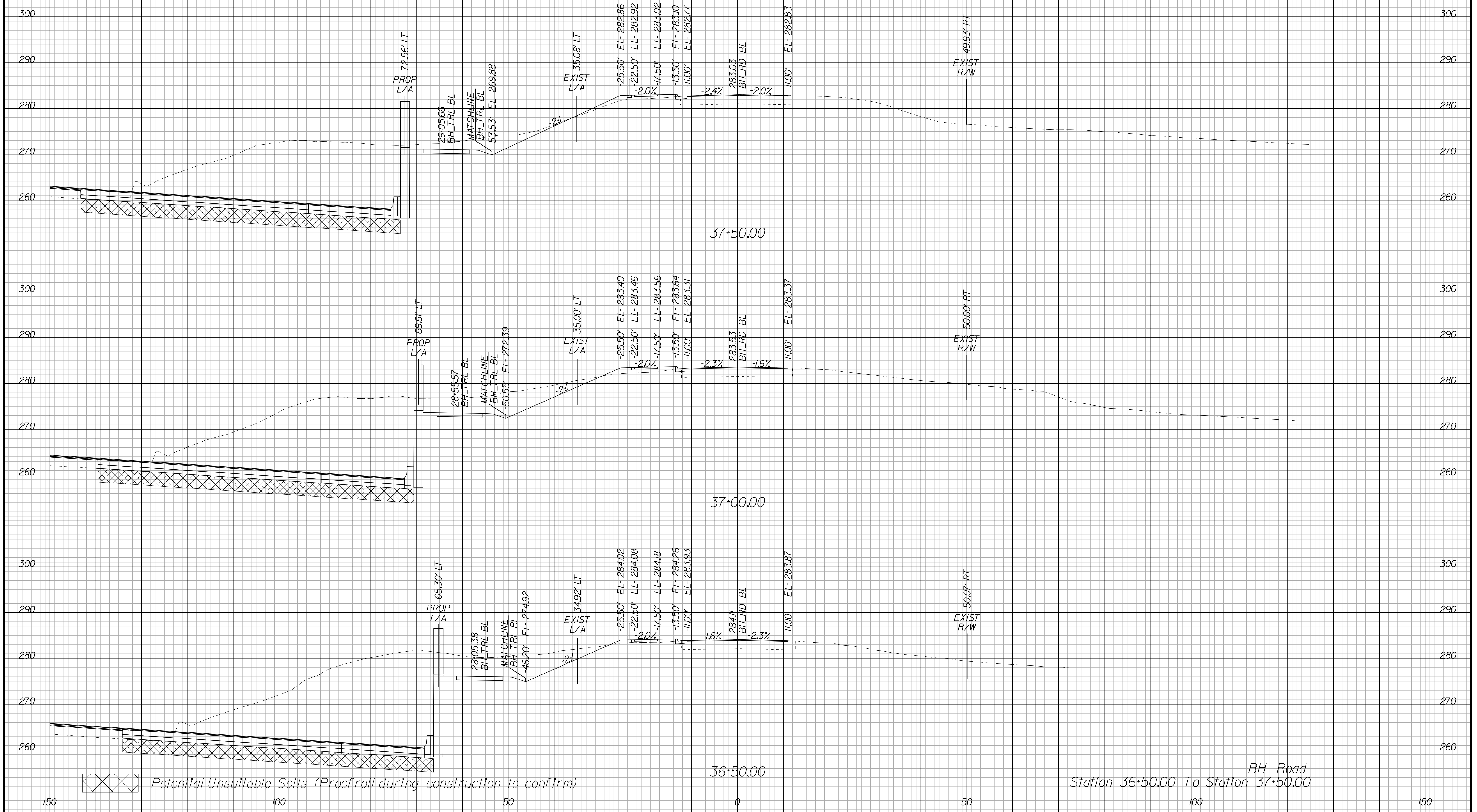
# CROSS SECTIONS

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	X403 AREA 3

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)

BH Road  
Station 36+50.00 To Station 37+50.00

PROJECT	SHEET NO.
0495-029-419	X403

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

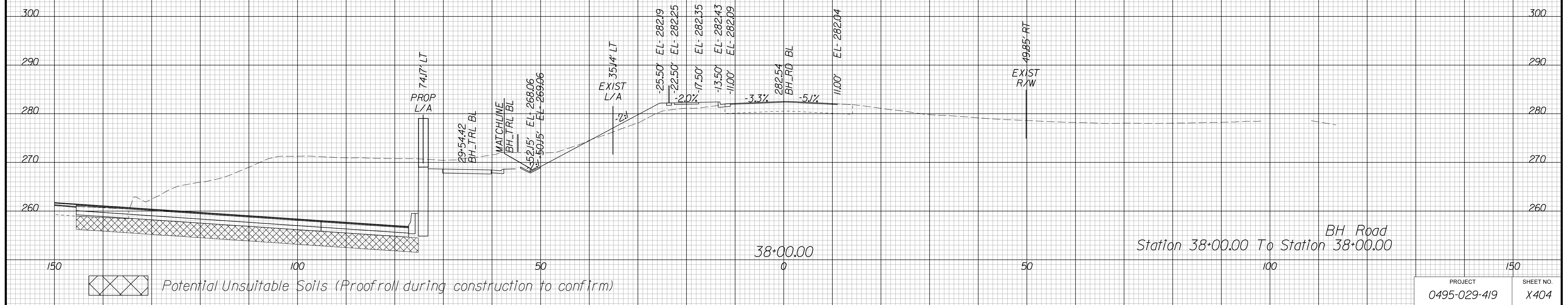
# CROSS SECTIONS

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	X404 AREA 3

*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	X404

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

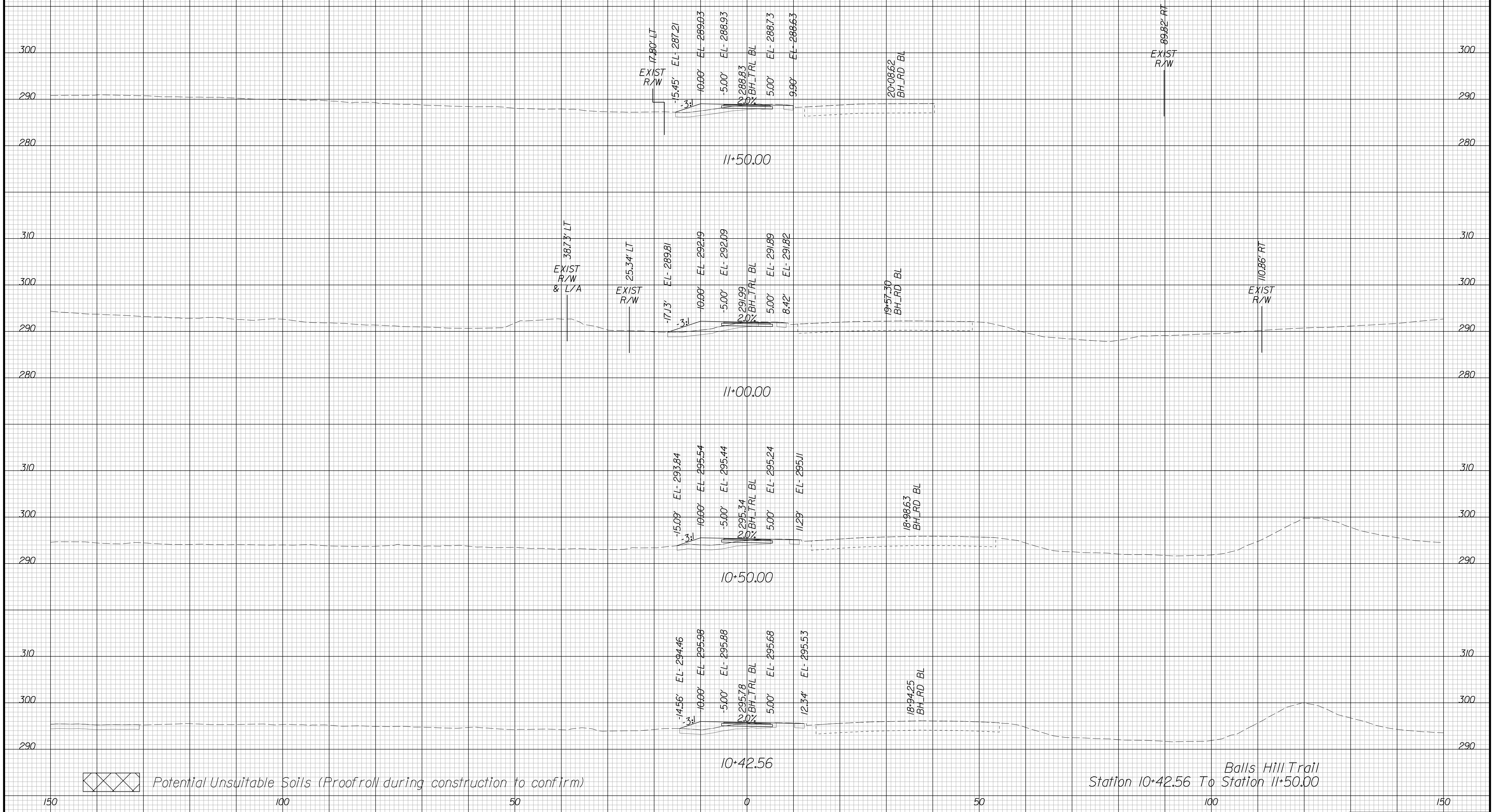
### CROSS SECTIONS

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	X451 AREA 3

*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

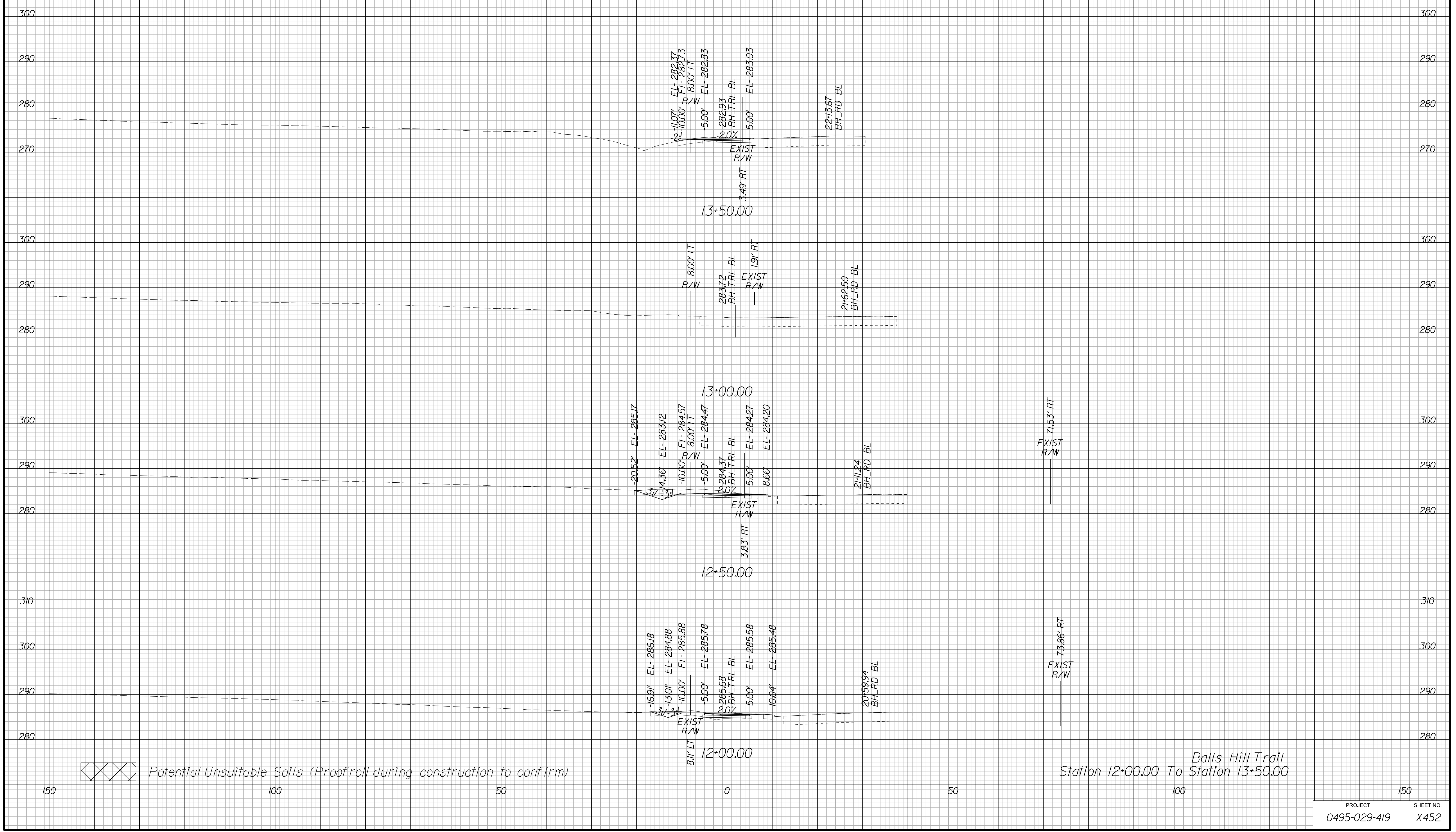
# CROSS SECTIONS

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	X452 AREA 3

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 12+00.00 To Station 13+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

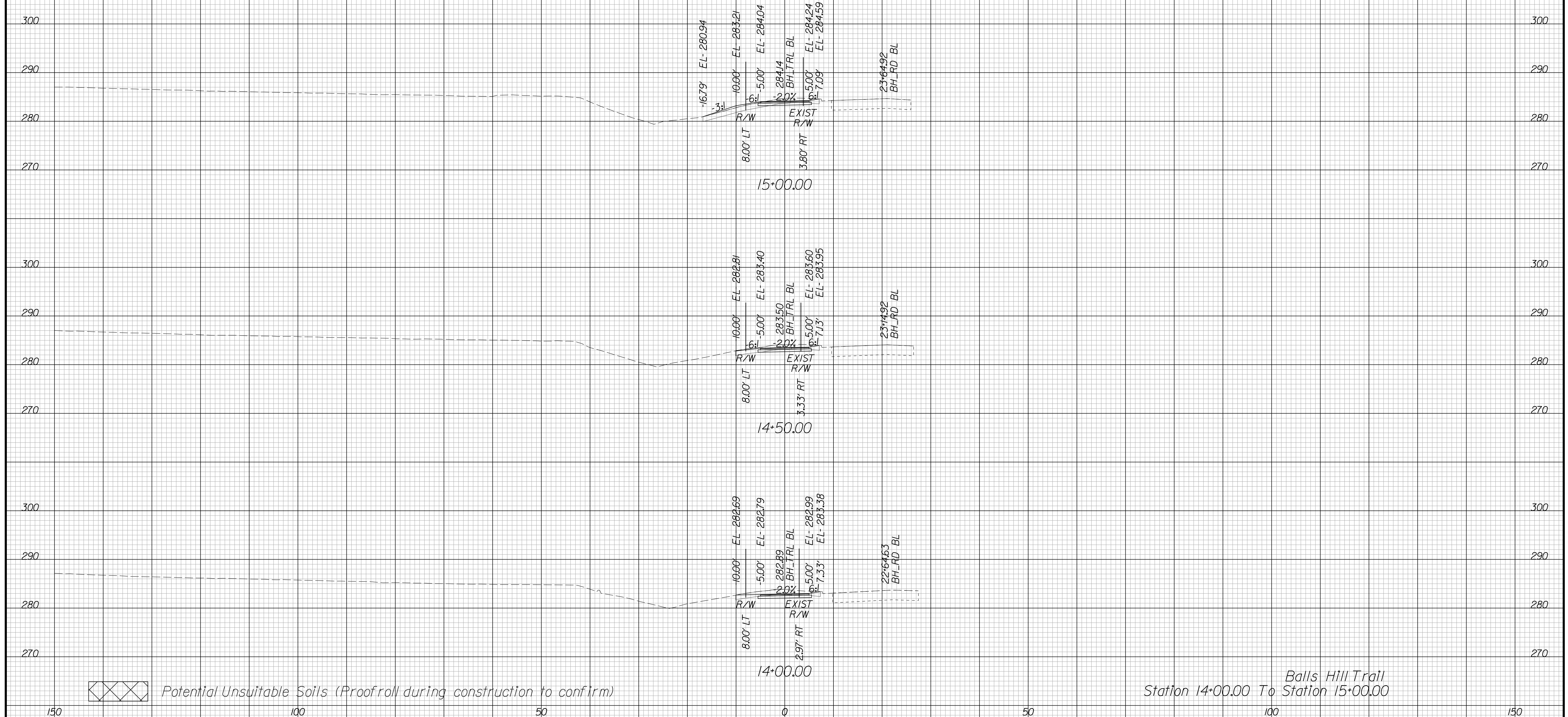
# CROSS SECTIONS

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	X453 AREA 3

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	X453

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

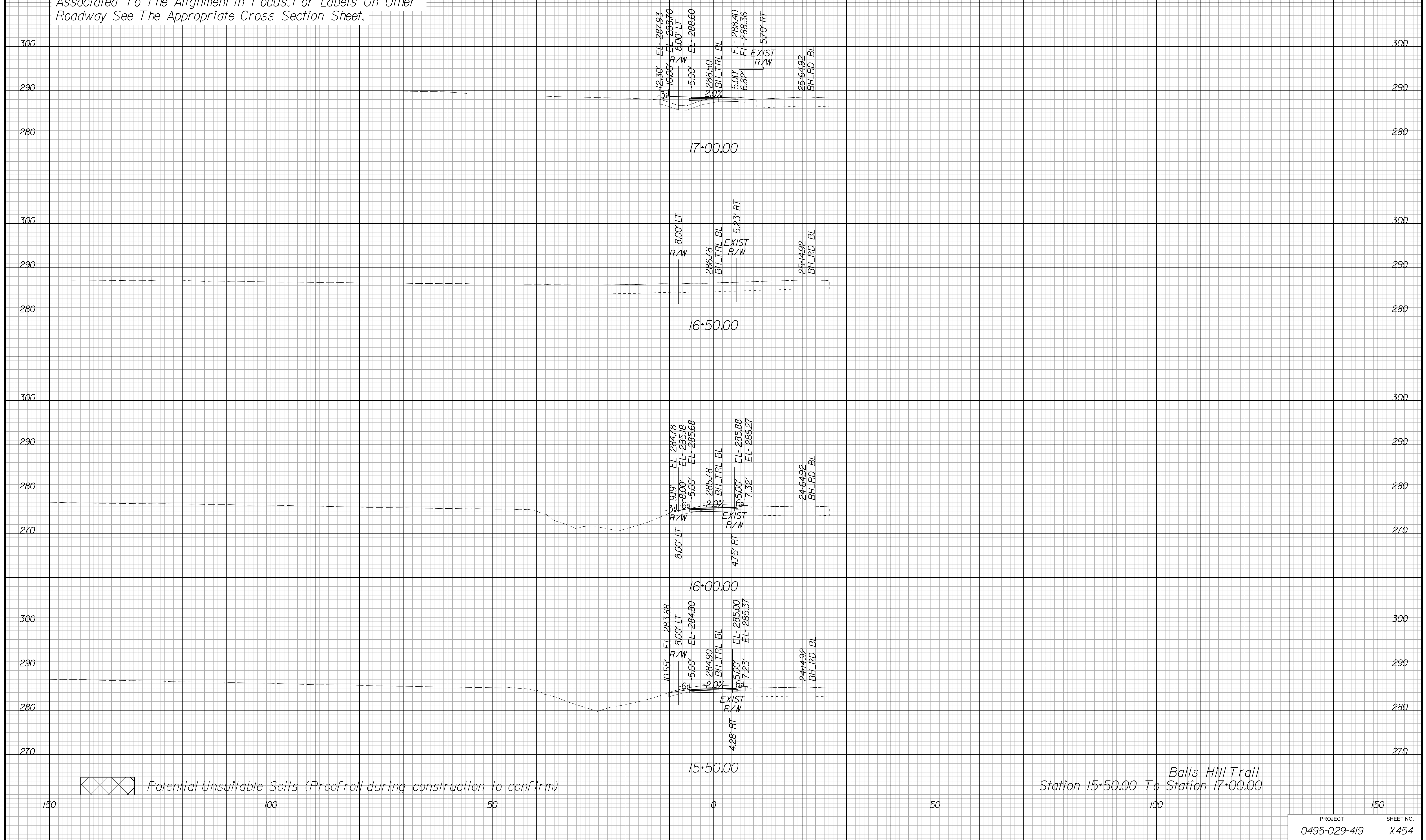
# CROSS SECTIONS

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	X454 AREA 3

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, Daxberry - Ron Jakominich PE (703) 849-0651  
SUBSURFACE UTILITY BY, DATE Accurmark - Michael Taylor LS (703) 635-3060, 12/2021

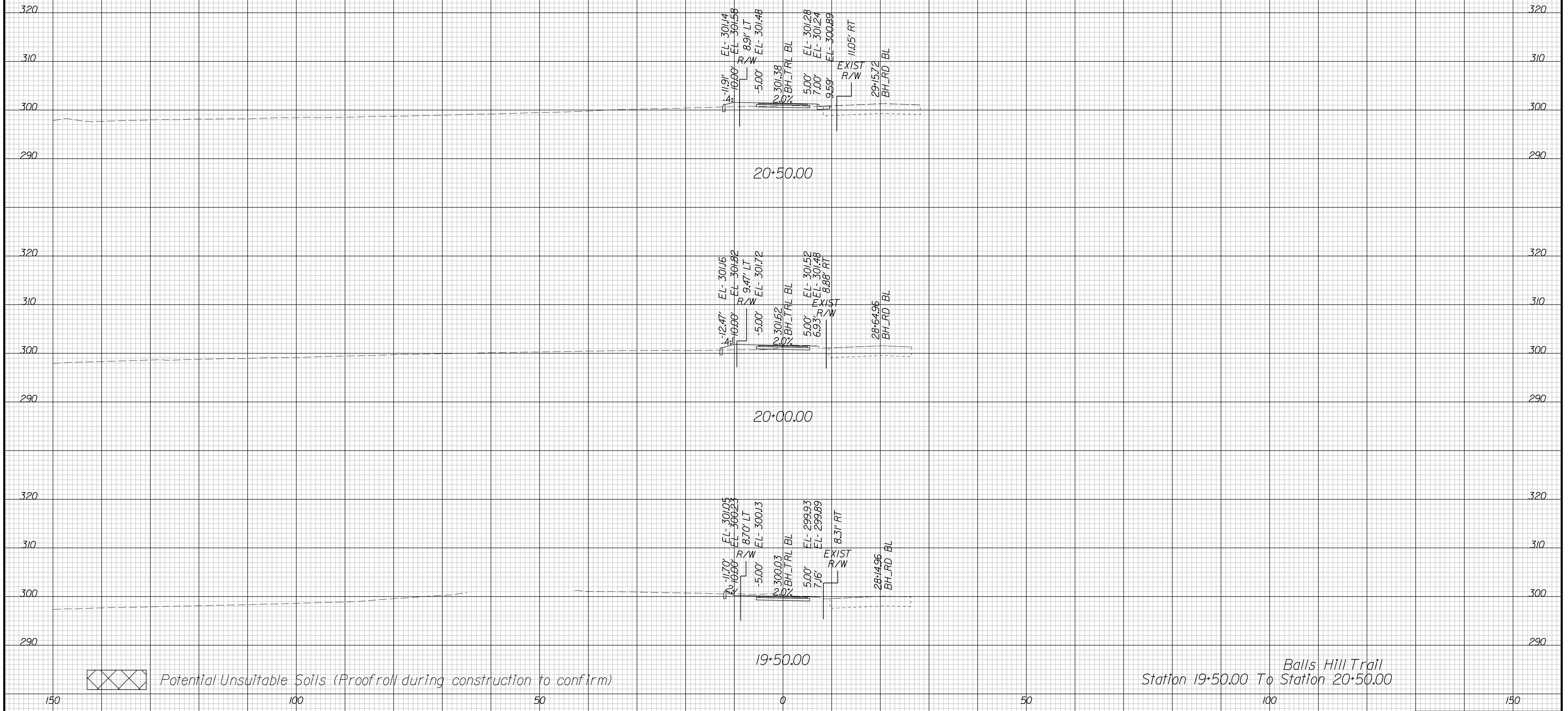
# CROSS SECTIONS

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	X456 AREA 3

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 19+50.00 To Station 20+50.00

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, Dawbercy - Ron Jakominich PE (703) 849-0651  
SUBSURFACE UTILITY BY DATE Accurmark - Michael Taylor LS (703) 635-3060, 12/2021

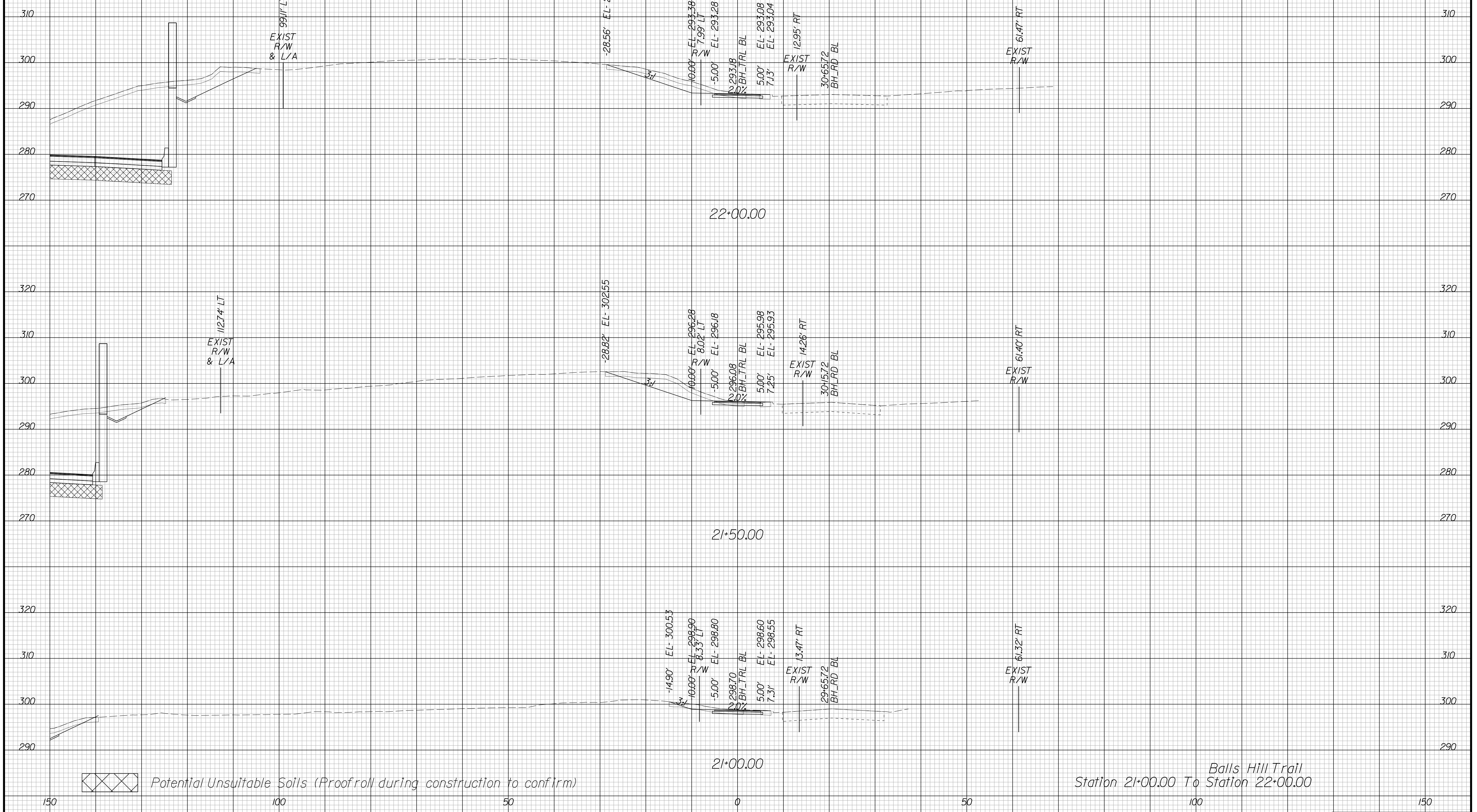
# CROSS SECTIONS

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	X457 AREA 3

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 21+00.00 To Station 22+00.00

PROJECT	SHEET NO.
0495-029-419	X457

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 Accumark - Michael Taylor LS (703) 635-3060, 12/2021

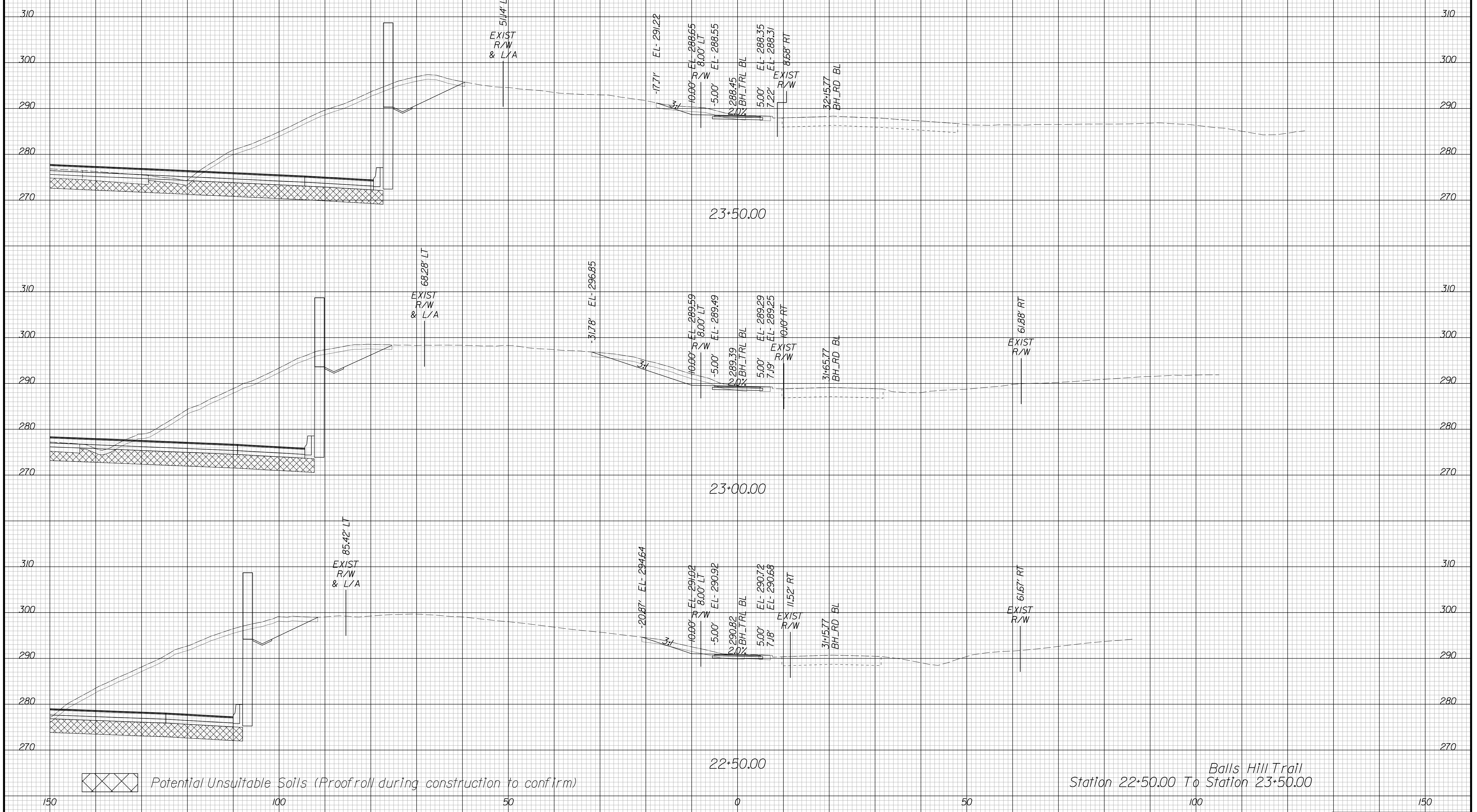
# CROSS SECTIONS

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	X458 AREA 3

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 22+50.00 To Station 23+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, Daxbery - Ron Jakominich PE (703) 849-0651  
SUBSURFACE UTILITY BY DATE Accurmark - Michael Taylor LS (703) 635-3060, 12/2021

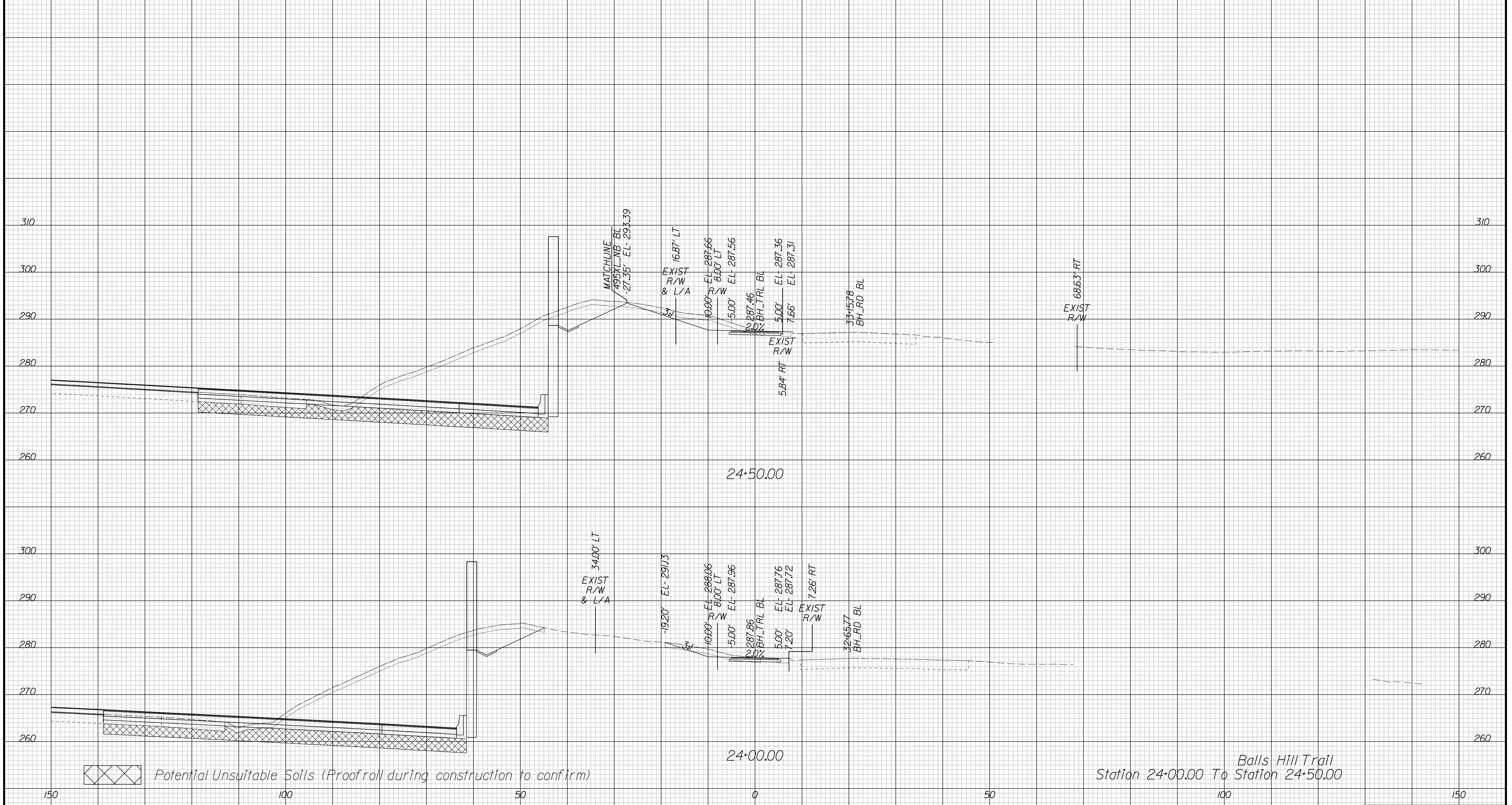
# CROSS SECTIONS

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	X459 AREA 3

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 24+00.00 To Station 24+50.00

PROJECT	SHEET NO.
0495-029-419	X459

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

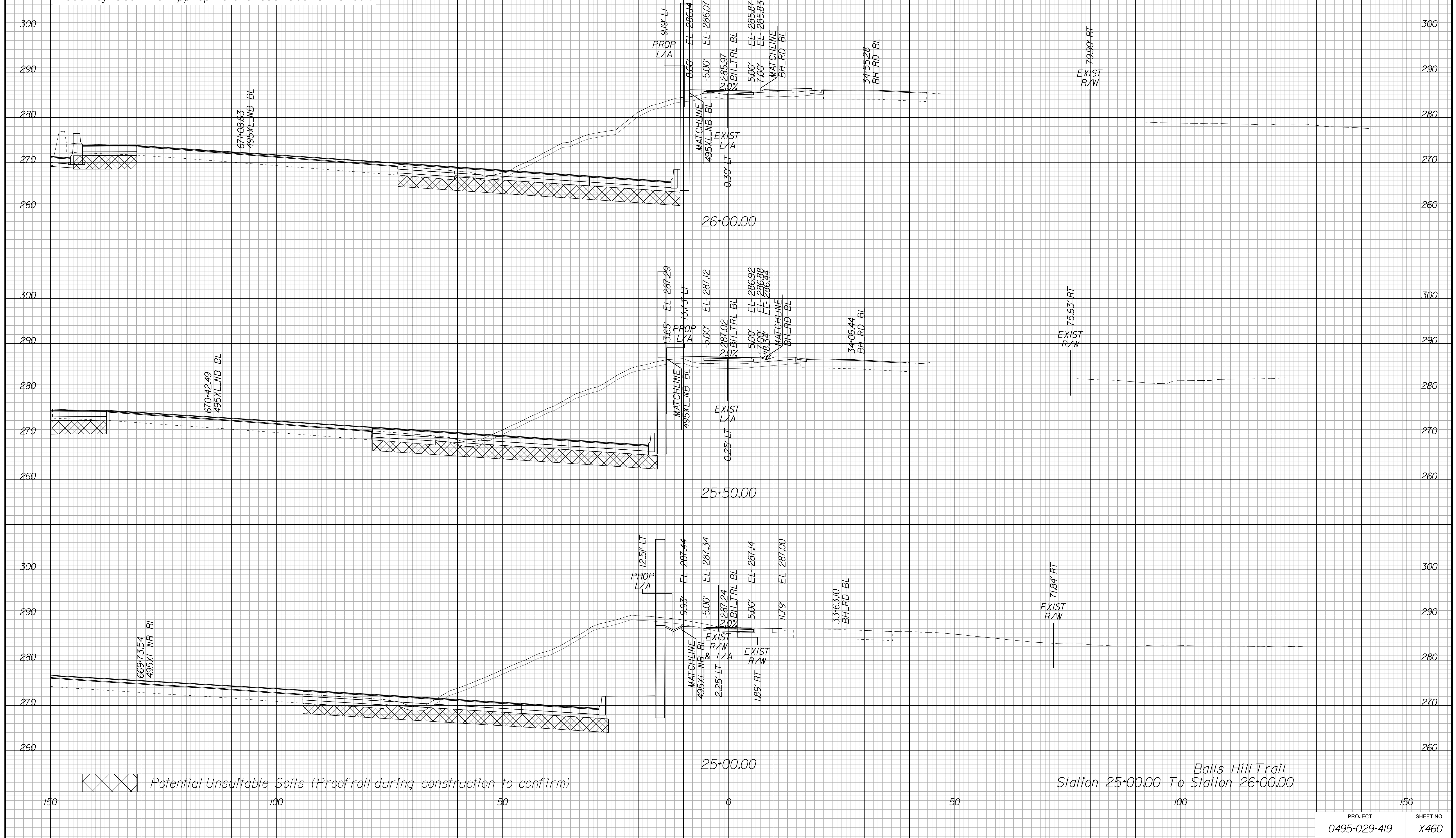
# CROSS SECTIONS

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	X460 AREA 3

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 25+00.00 To Station 26+00.00

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, Dawbercy - Ron Jakominich PE (703) 849-0651  
SUBSURFACE UTILITY BY DATE Accurmark - Michael Taylor LS (703) 635-3060, 12/2021

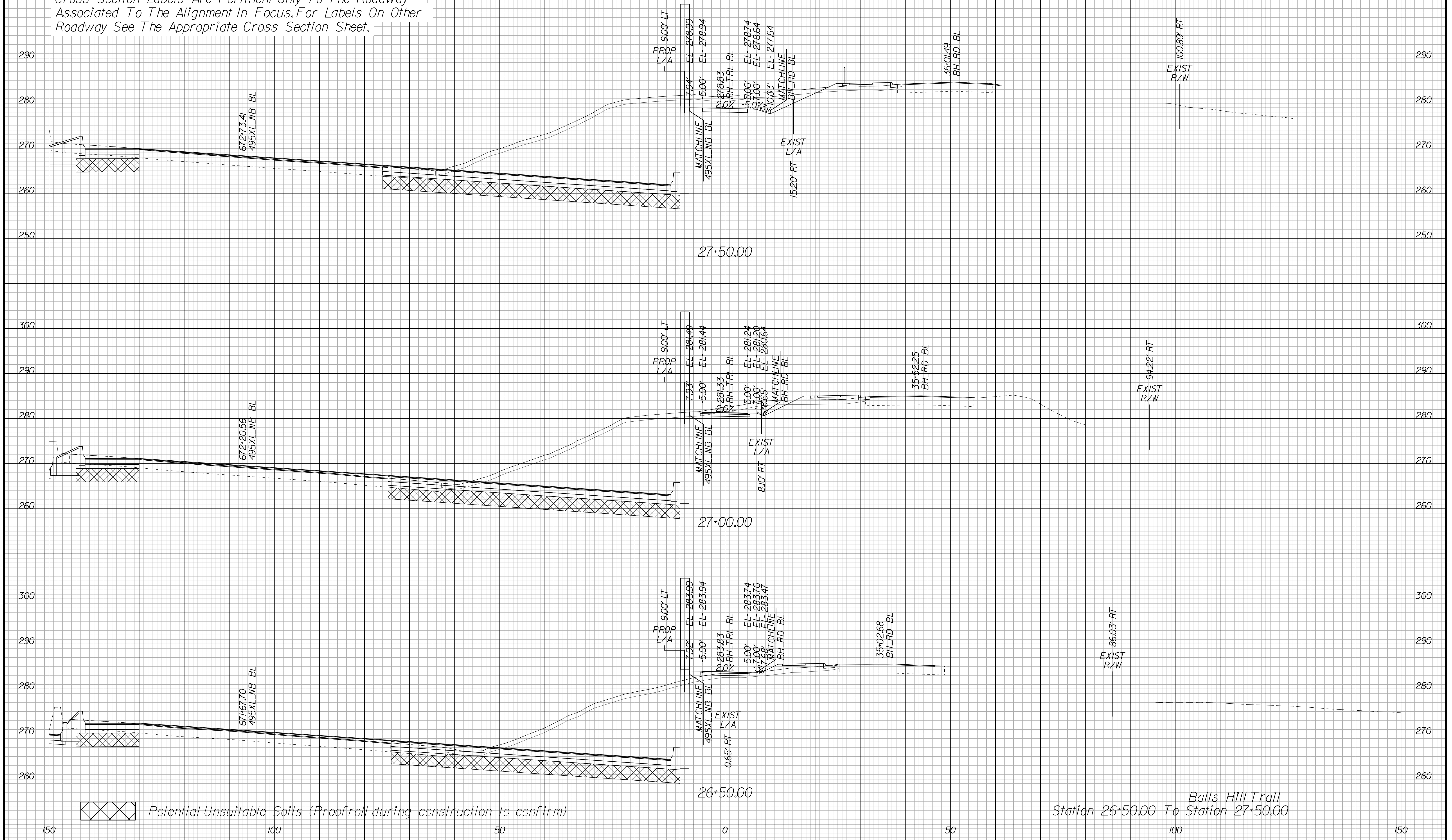
### CROSS SECTIONS

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	X461 AREA 3

*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 26+50.00 To Station 27+50.00*

Potential Unsuitable Soils (Proofroll during construction to confirm)

PROJECT	SHEET NO.
0495-029-419	X461

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

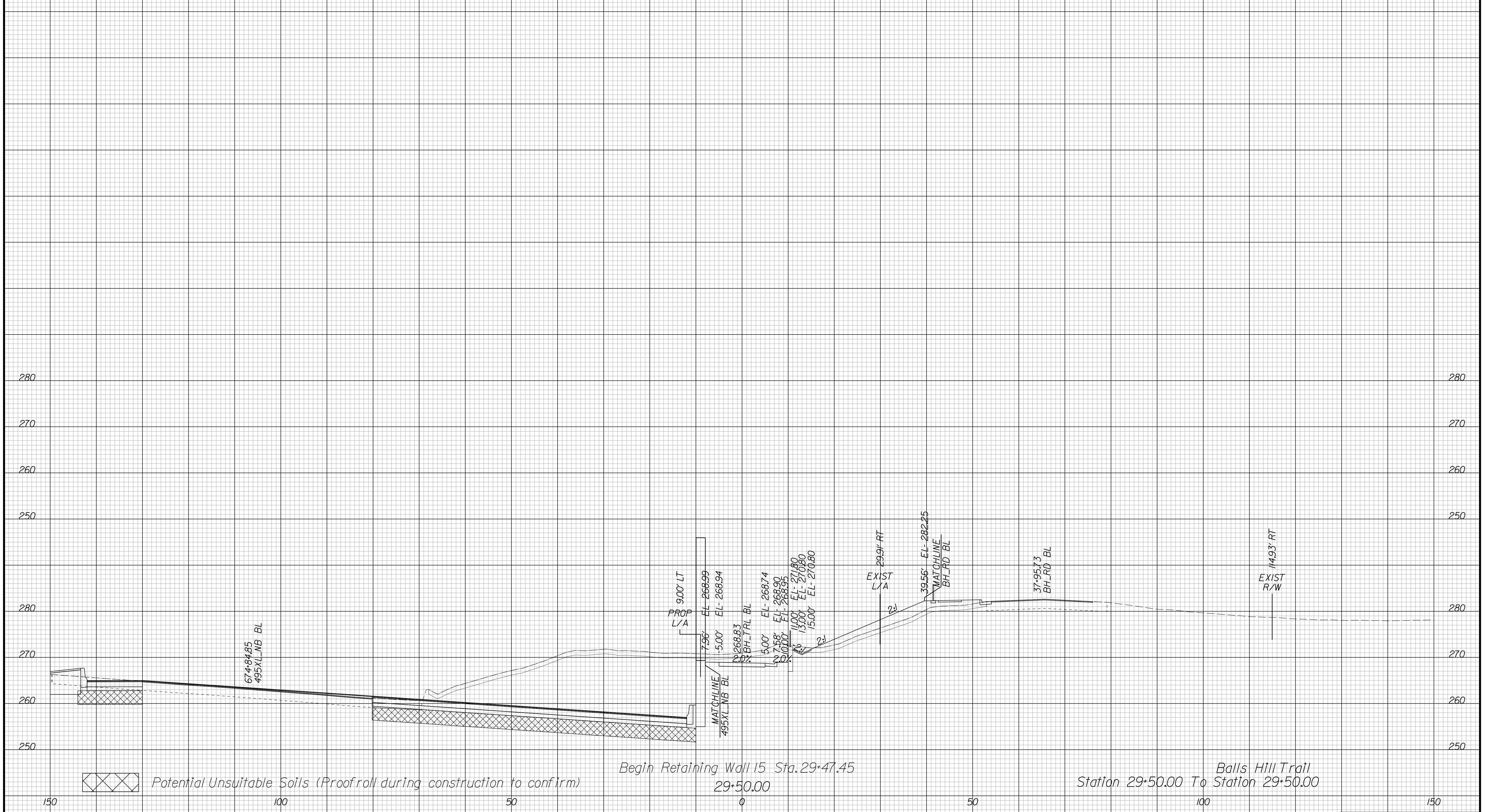
# CROSS SECTIONS

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	X463 AREA 3

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)

Begin Retaining Wall @ Sta. 29+47.45  
29+50.00

Station 29+50.00 To Station 29+50.00  
Ball's Hill Trail

PROJECT	SHEET NO.
0495-029-419	X463

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

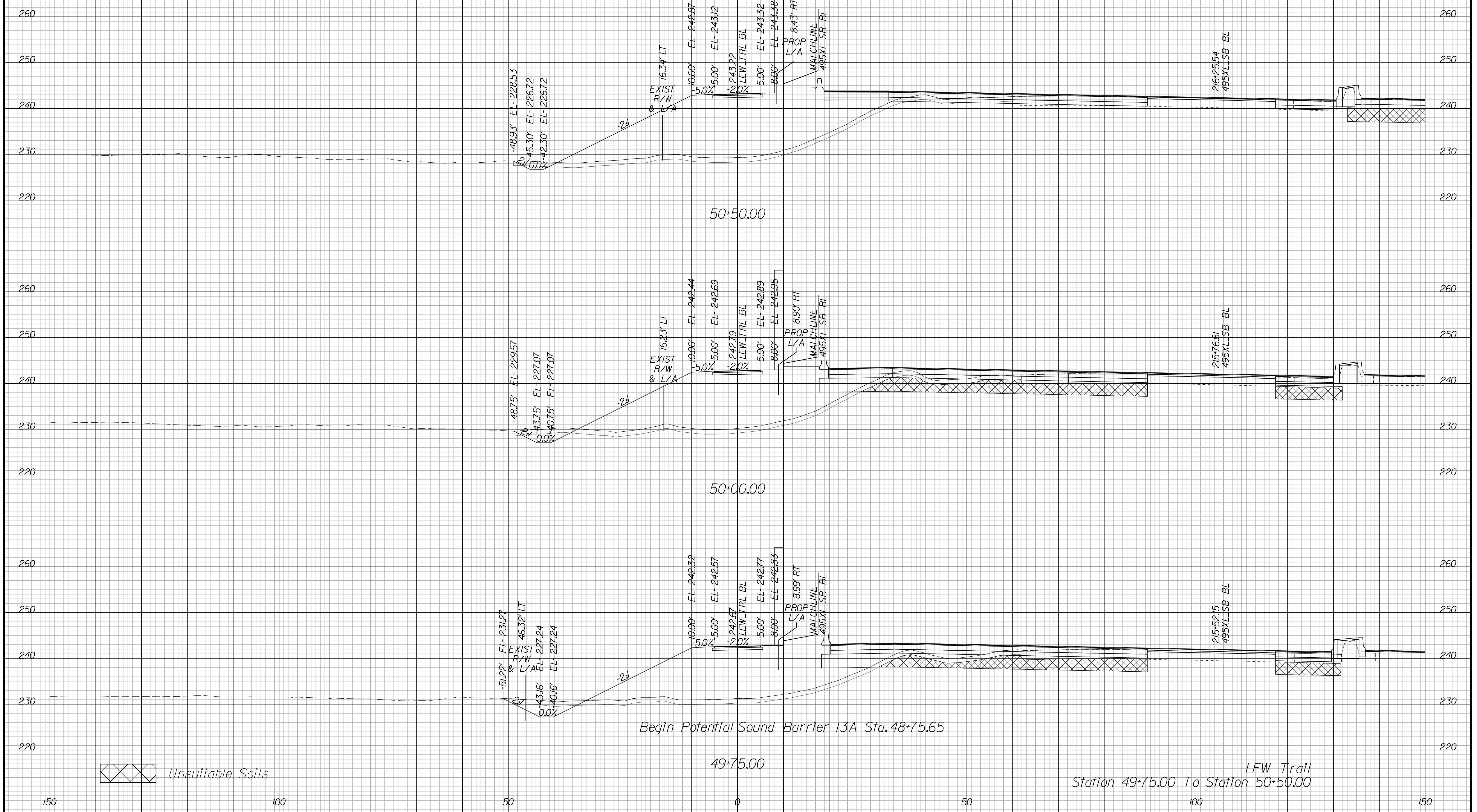
# CROSS SECTIONS

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

REVISION	STATE	ROUTE	STATE PROJECT	SHEET NO.
	VA.	495	0495-029-419	X501 AREA 3

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.



Unsuitable Soils

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

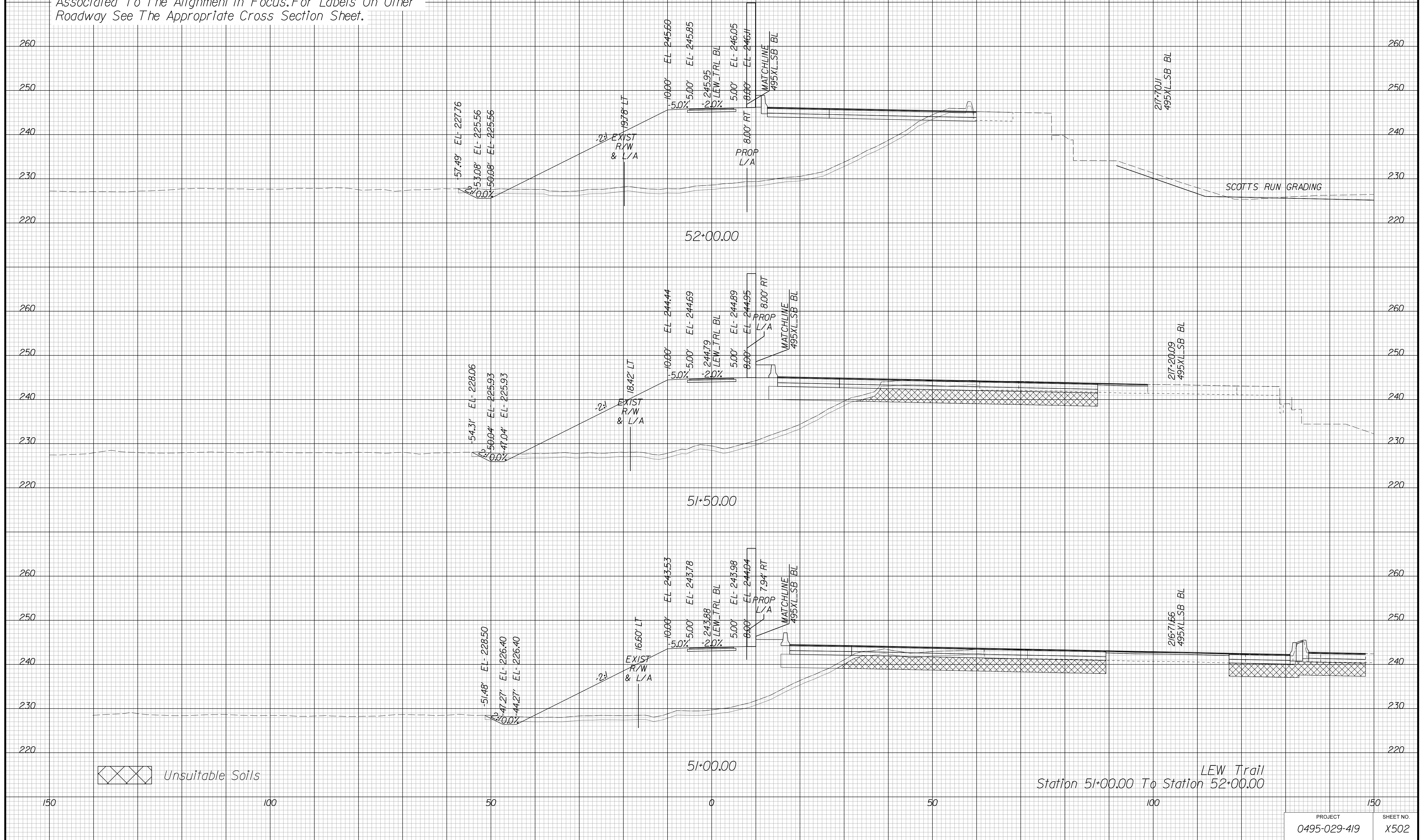
# CROSS SECTIONS

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	X502 AREA 3

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

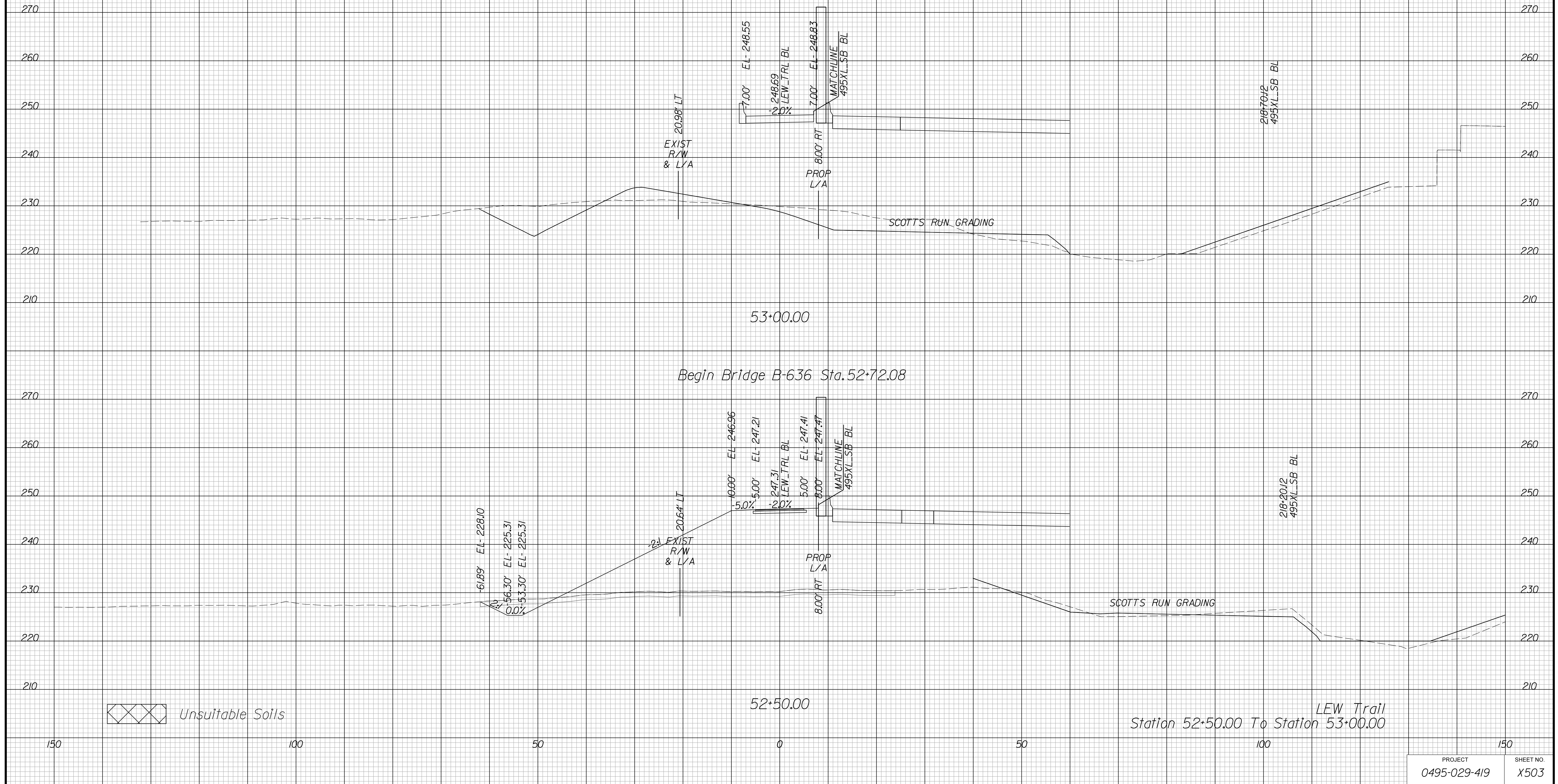
# CROSS SECTIONS

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	X503 AREA 3

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

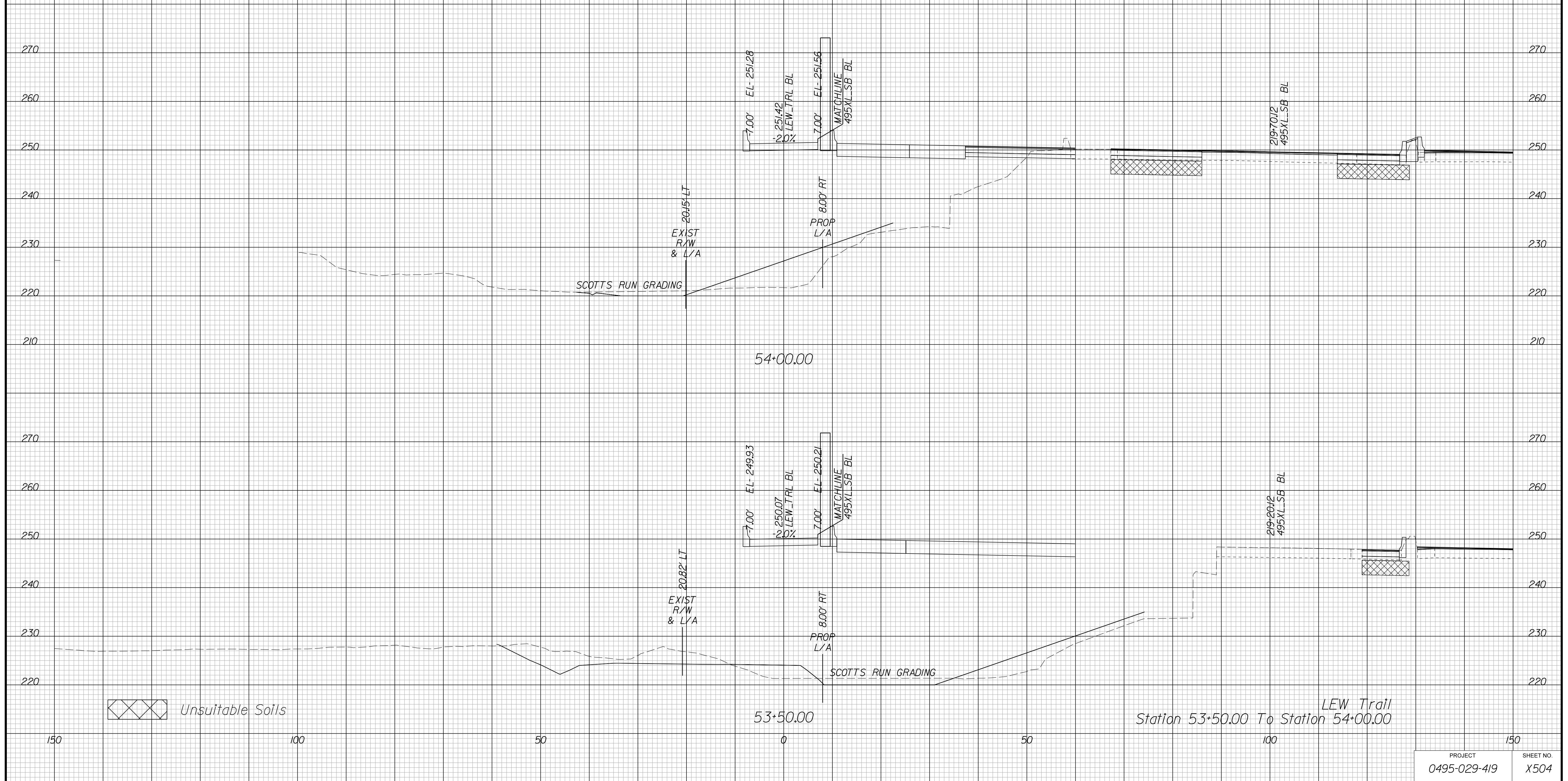
SCALE 1 IN. = 10 FT

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	X504 AREA 3

*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 Bridge B-636 Sta. 54+38.42



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

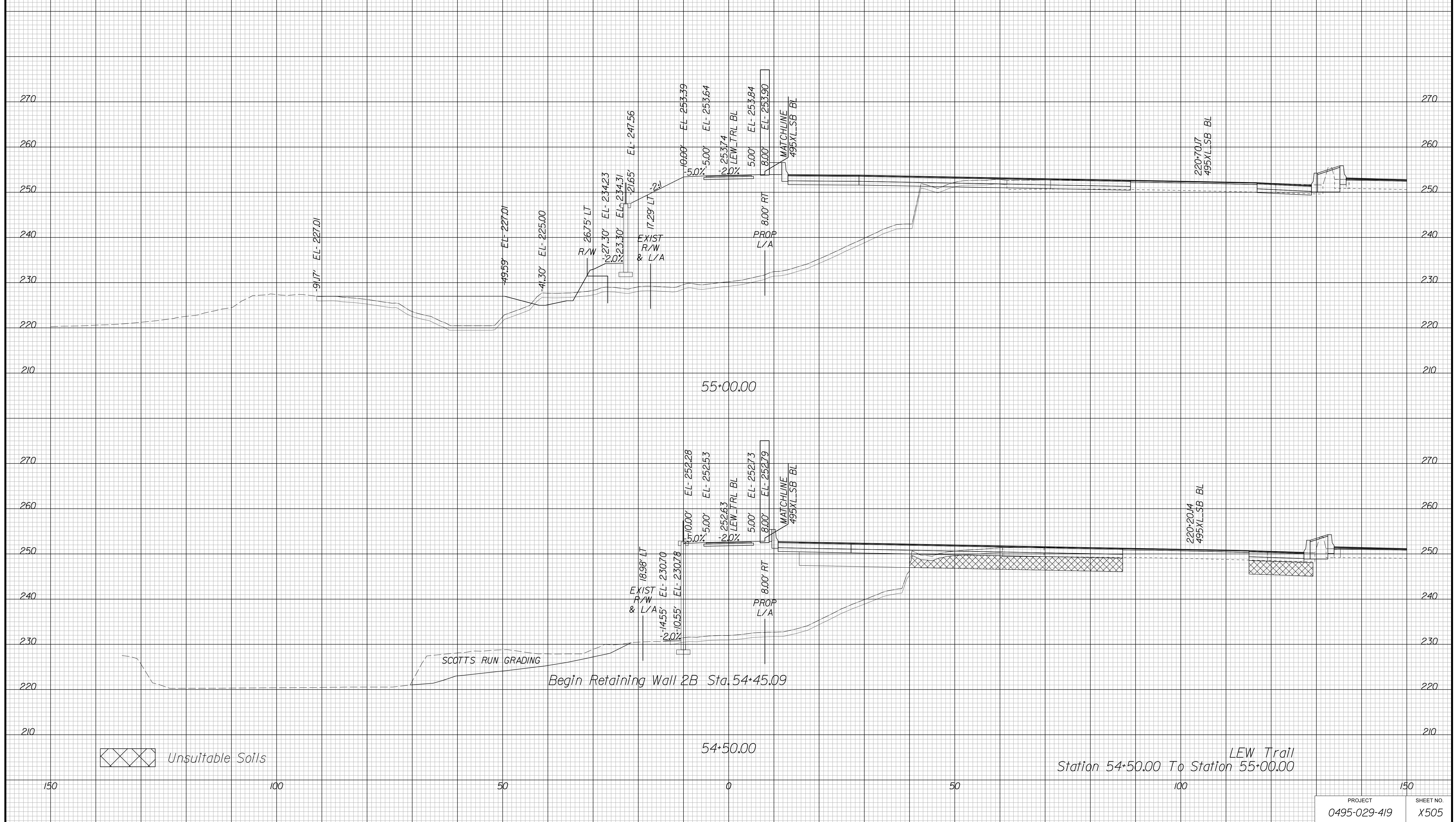
# CROSS SECTIONS

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	X505 AREA 3

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

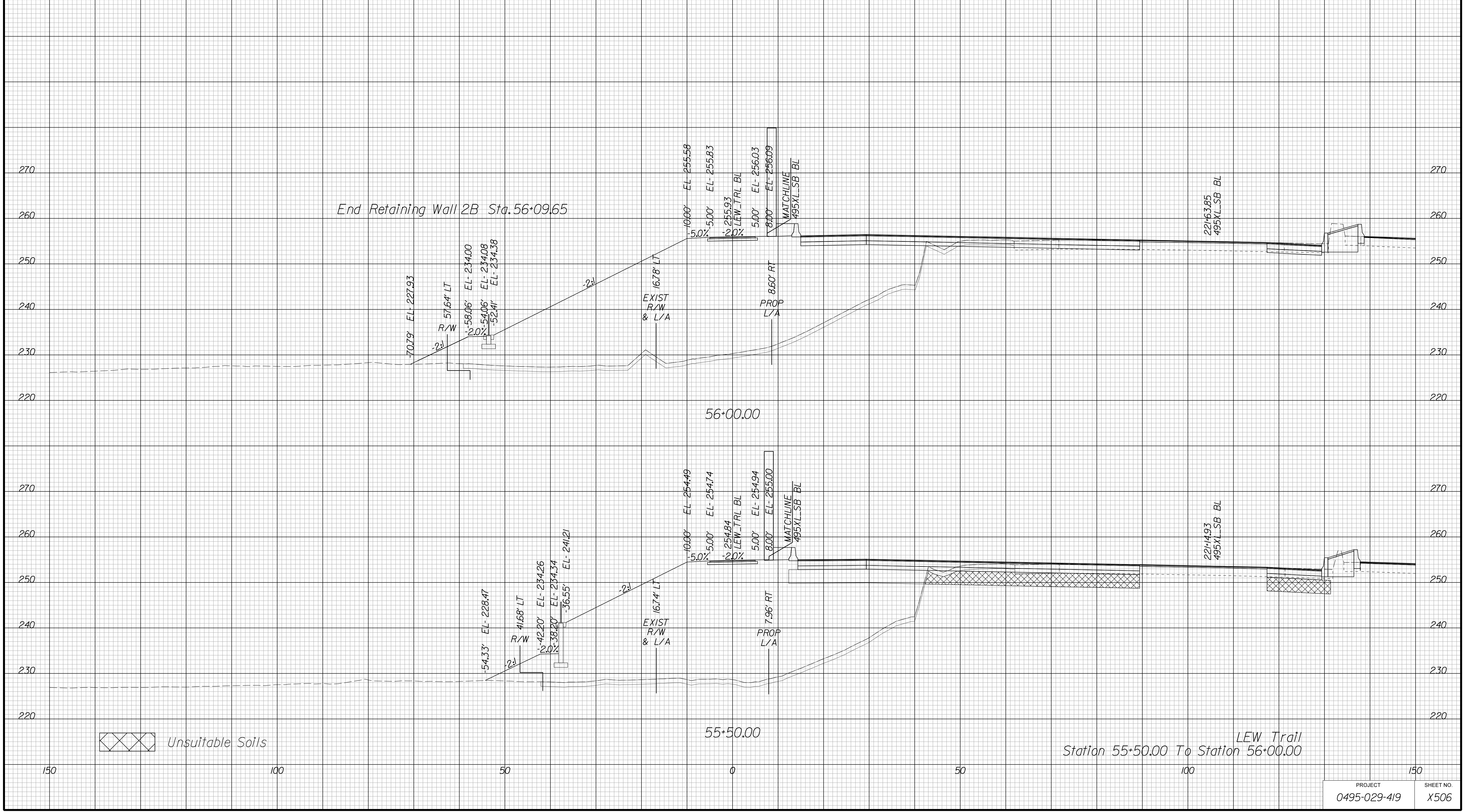
# CROSS SECTIONS

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	X506 AREA 3

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

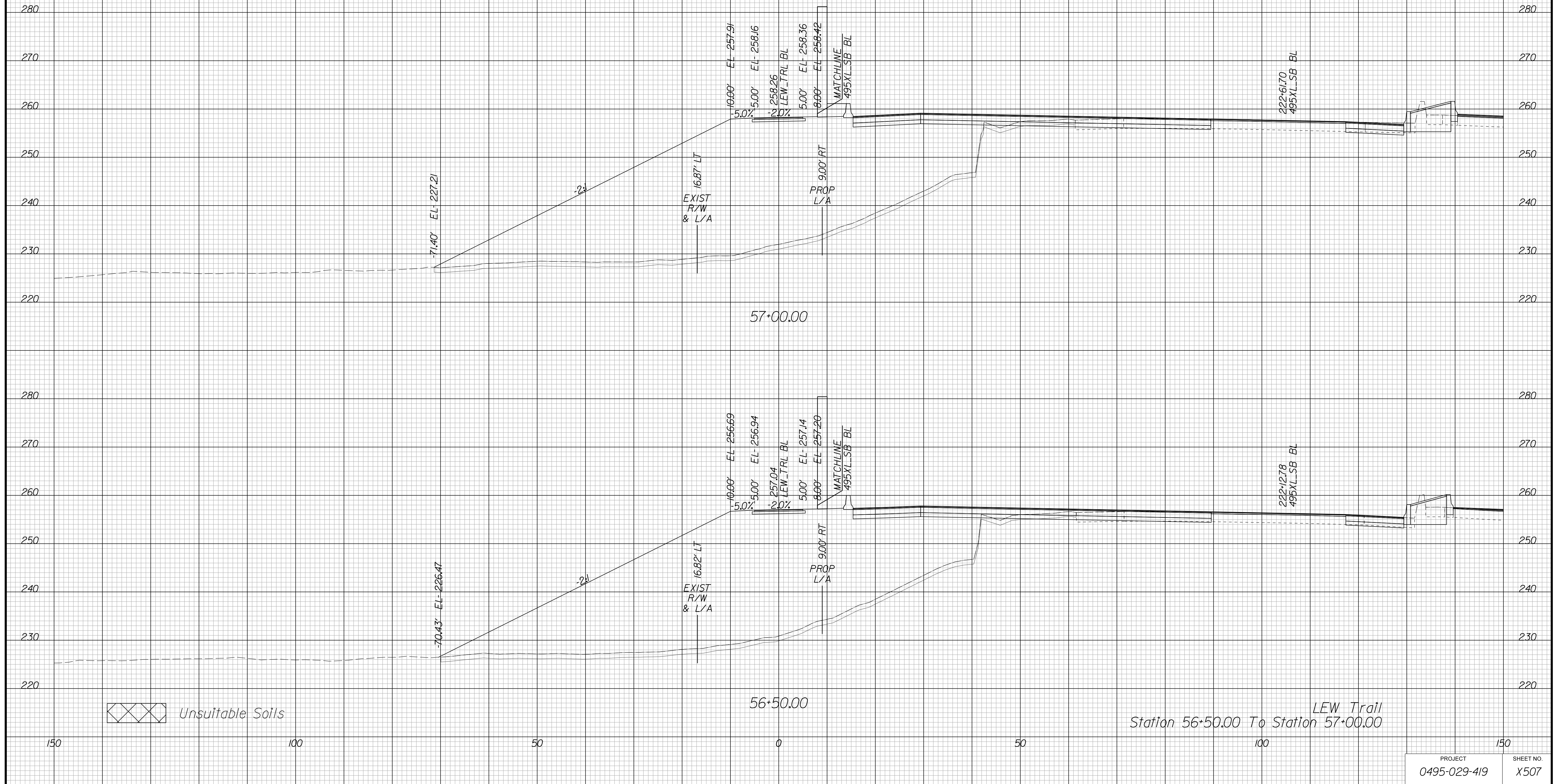
# CROSS SECTIONS

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	X507 AREA 3

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

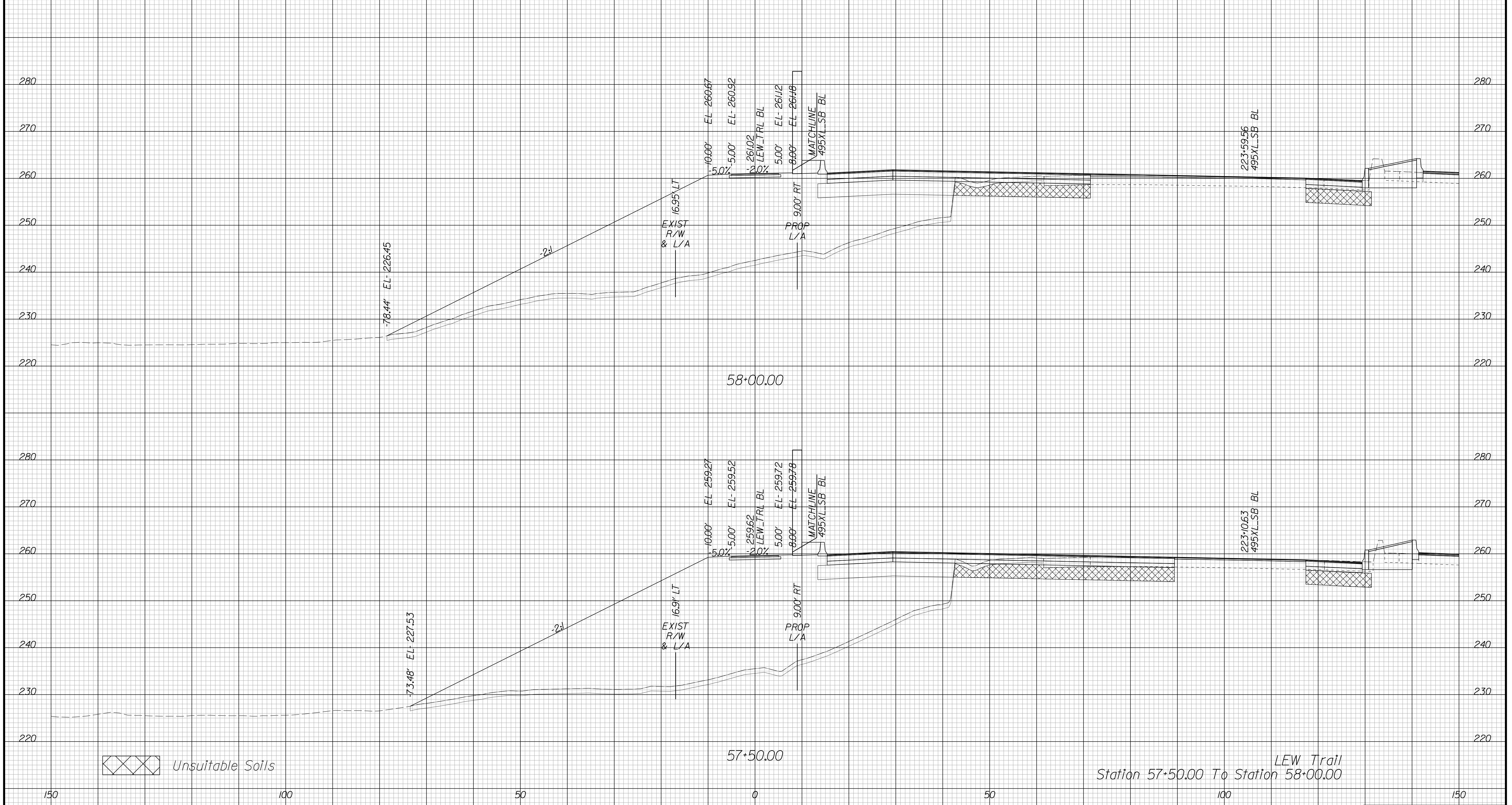
# CROSS SECTIONS

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	X508 AREA 3

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

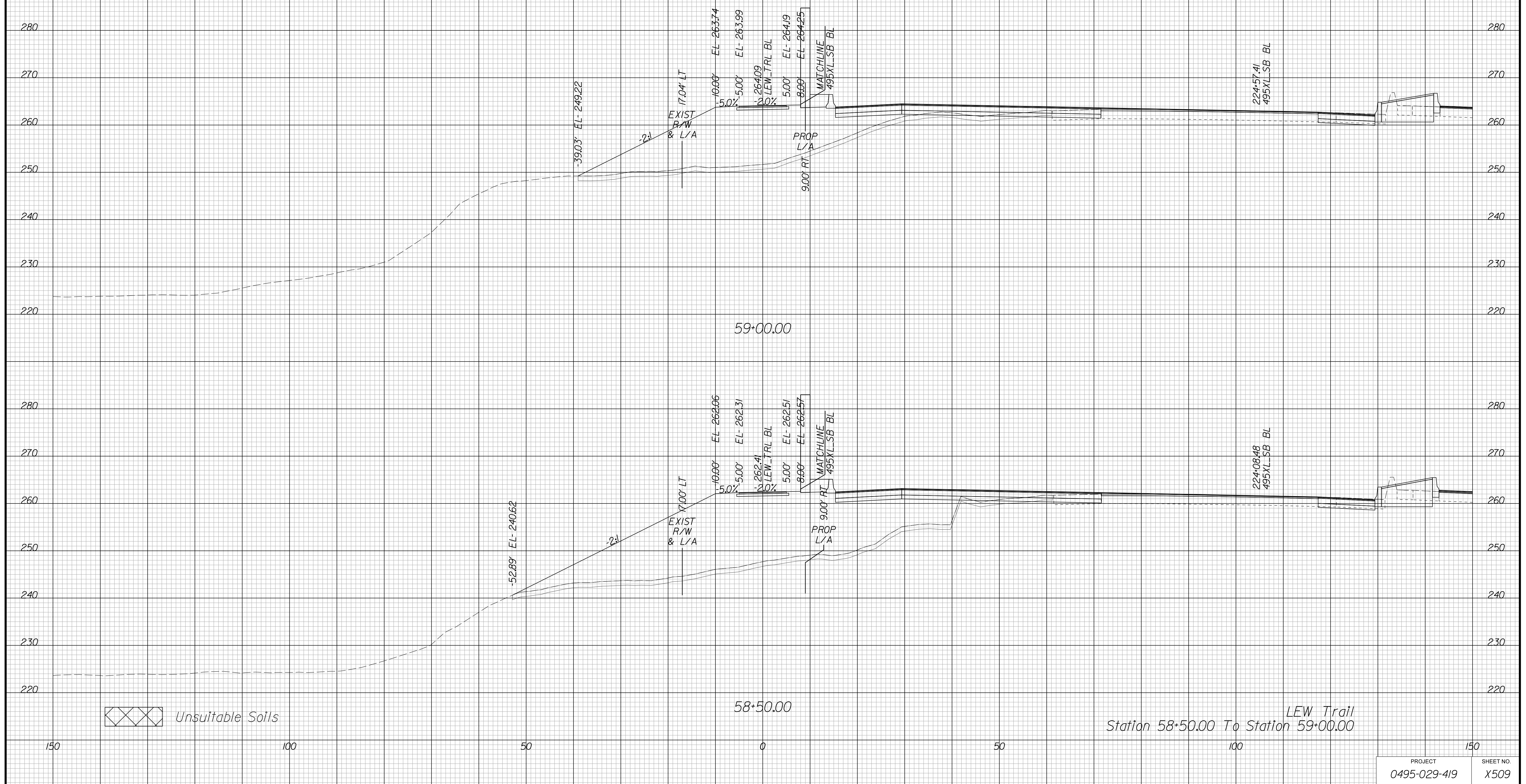
# CROSS SECTIONS

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	X509 AREA 3

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.



Unsuitable Soils

LEW Trail  
Station 58+50.00 To Station 59+00.00

APPROVED FOR CONSTRUCTION

PROJECT	SHEET NO.
0495-029-419	X509

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

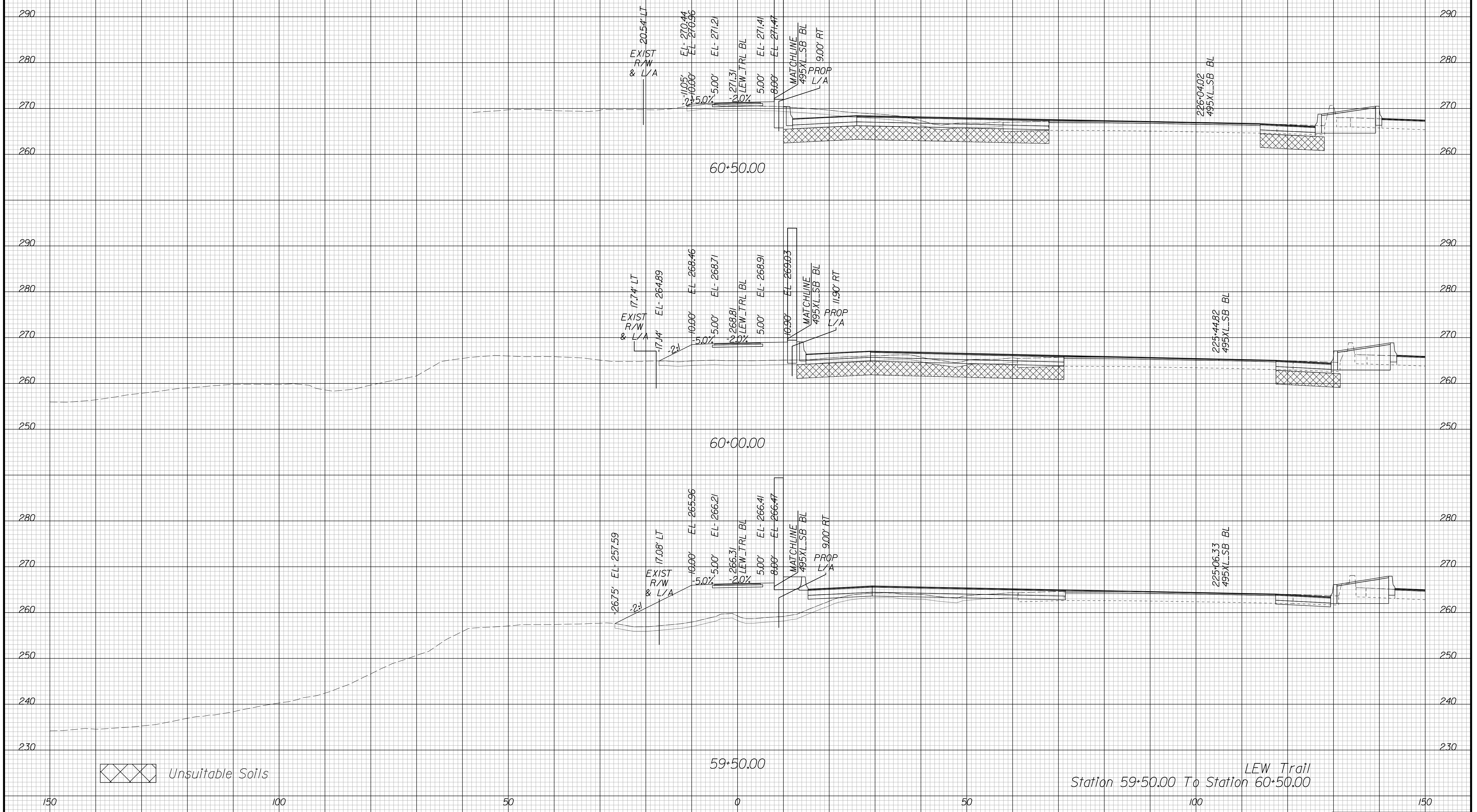
# CROSS SECTIONS

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	X510 AREA 3

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.



Unsuitable Soils

LEW Trail  
Station 59+50.00 To Station 60+50.00

APPROVED FOR CONSTRUCTION

PROJECT	SHEET NO.
0495-029-419	X510



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

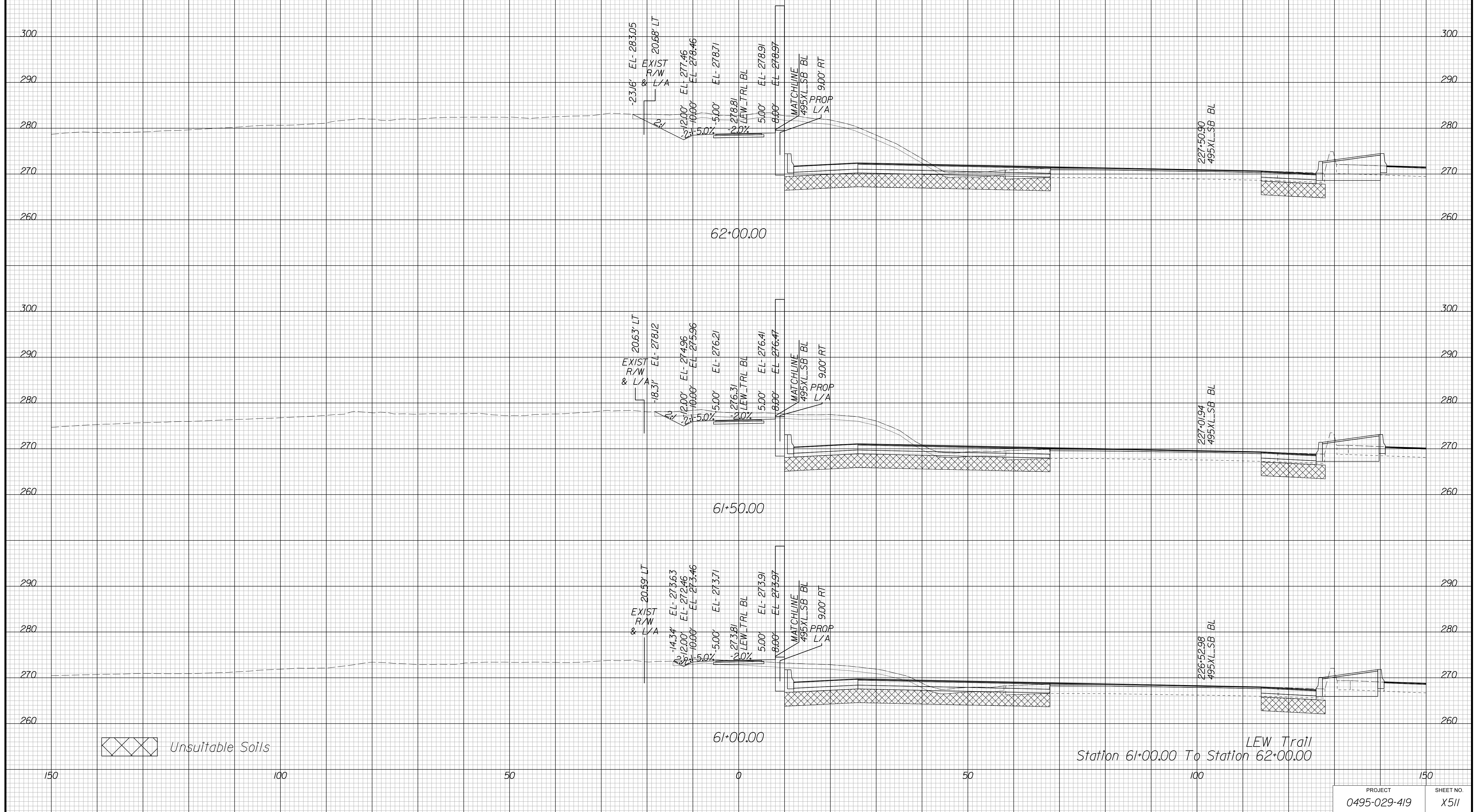
# CROSS SECTIONS

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	X511 AREA 3

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

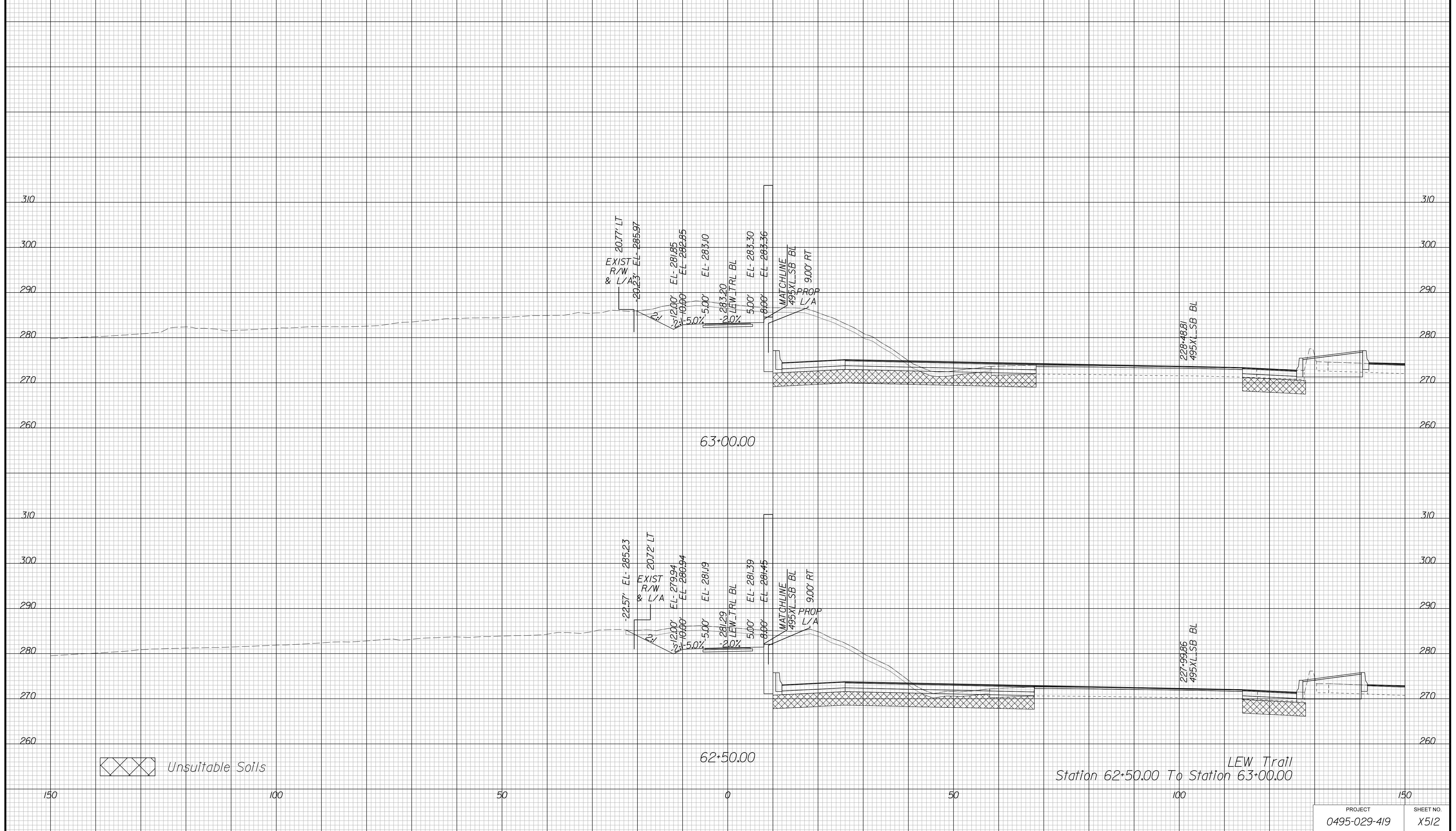
# CROSS SECTIONS

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	X512 AREA 3

*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.*



Unsuitable Soils

LEW Trail  
Station 62+50.00 To Station 63+00.00

APPROVED FOR CONSTRUCTION

PROJECT	SHEET NO.
0495-029-419	X512



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

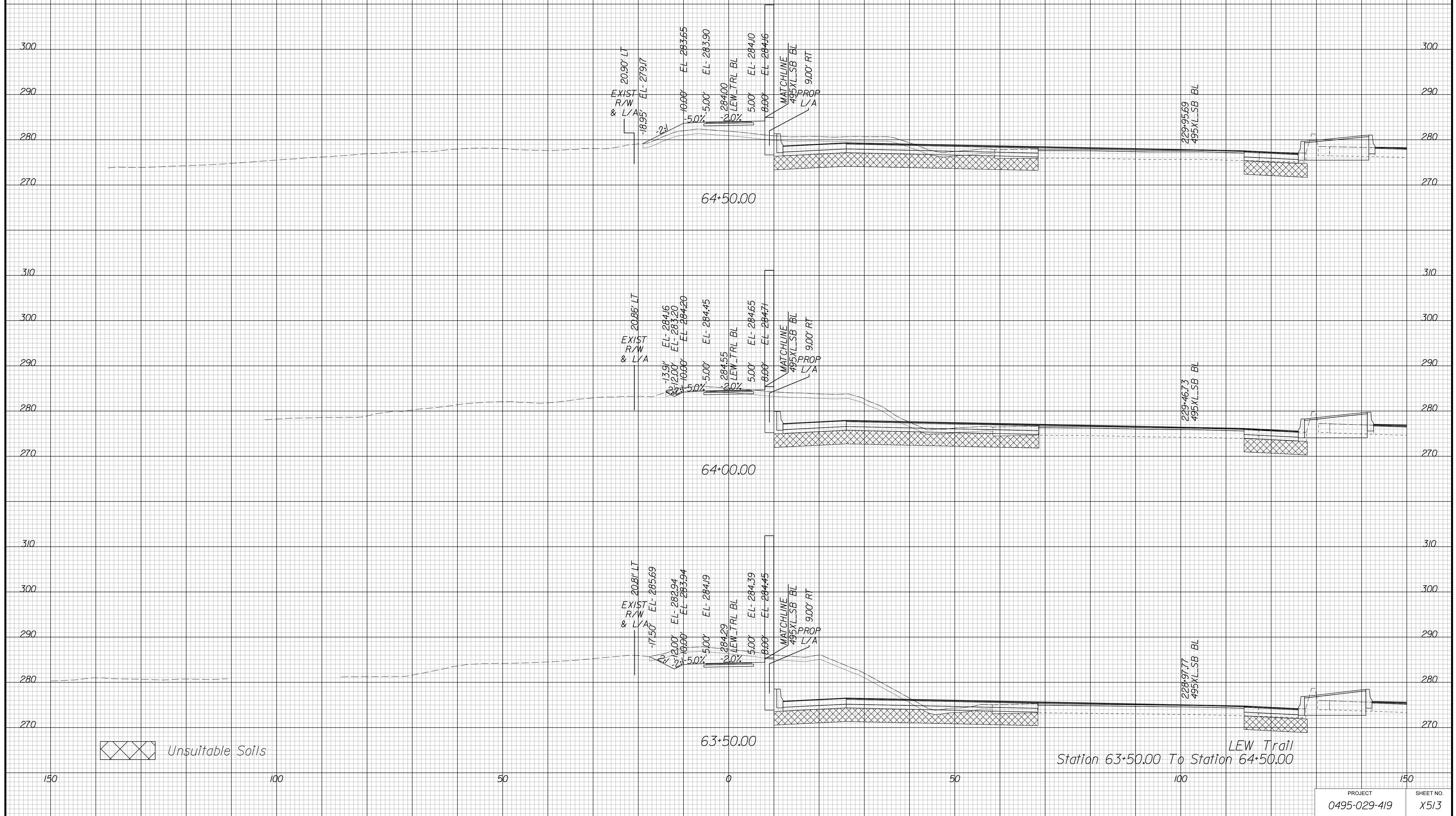
# CROSS SECTIONS

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	X513 AREA 3

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

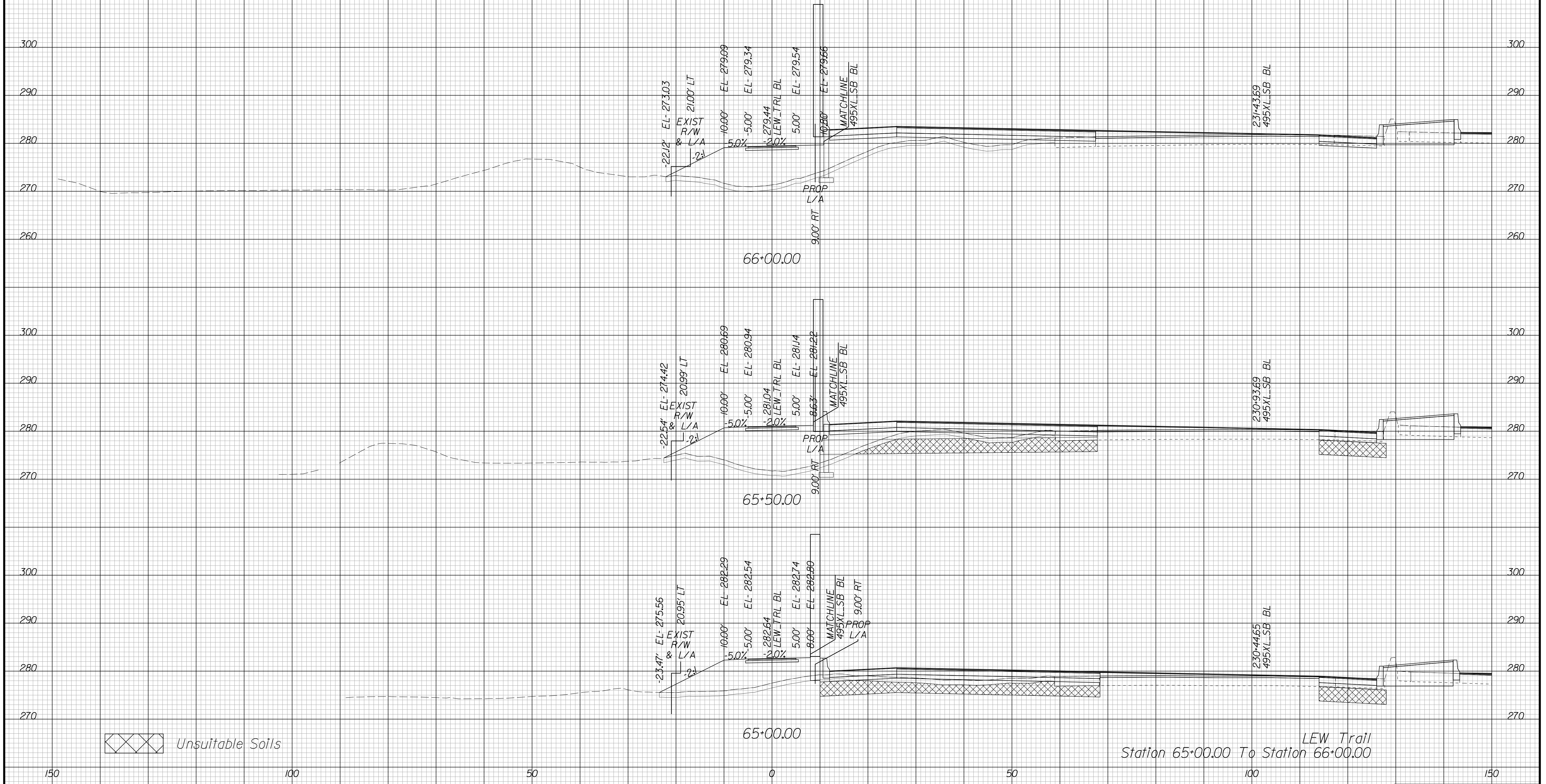
# CROSS SECTIONS

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	X514 AREA 3

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.



Unsuitable Soils

LEW Trail Station 65+00.00 To Station 66+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, Daxbery - Ron Jakominich PE (703) 849-0651  
SUBSURFACE UTILITY BY DATE Accurmark - Michael Taylor LS (703) 635-3060, 12/2021

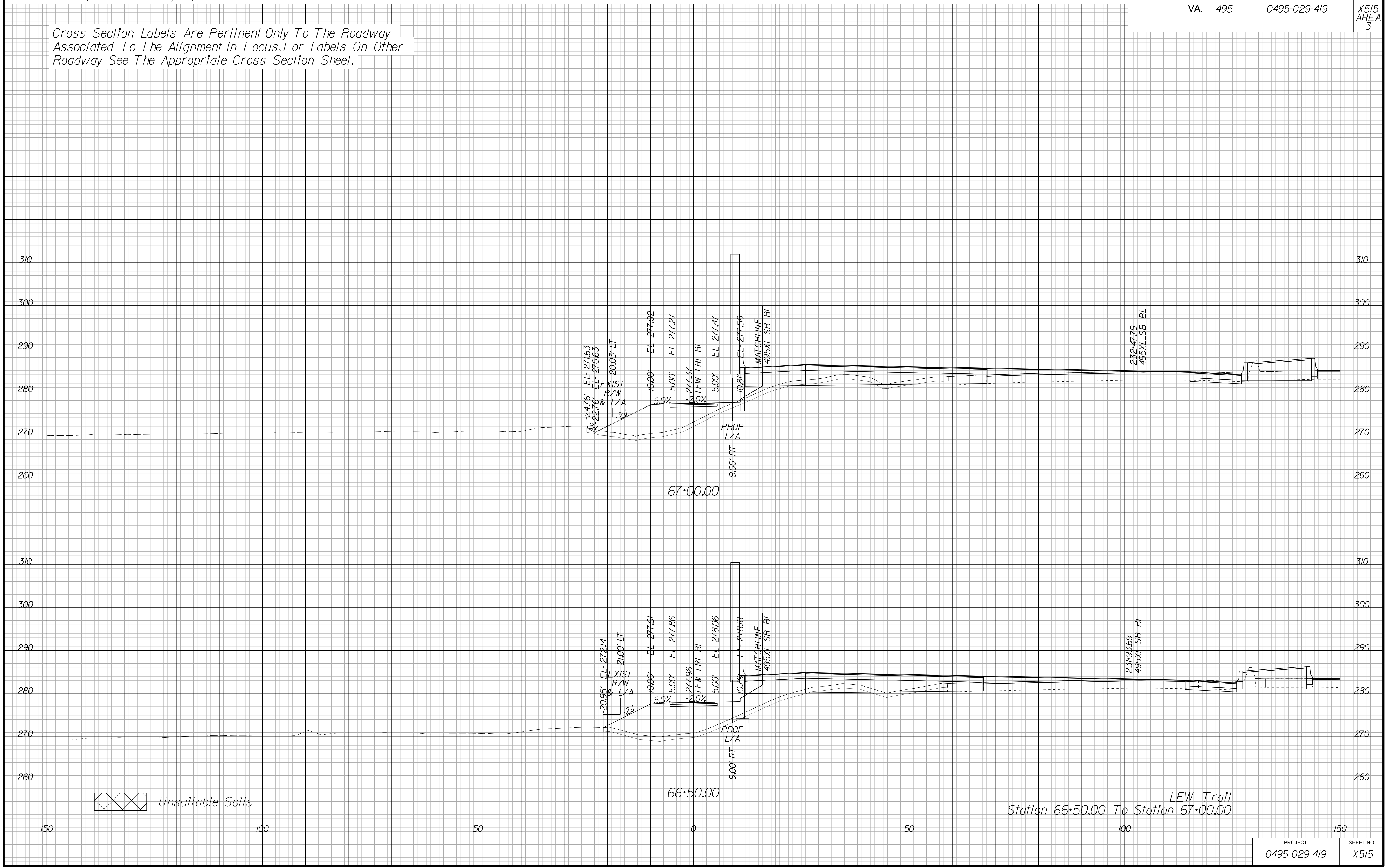
# CROSS SECTIONS

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	X515 AREA 3

*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.*



Unsuitable Soils

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	X516 AREA 3

*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.*



Unsuitable Soils

Begin Retaining Wall 6A Sta. 67+48.93

LEW Trail  
Station 67+50.00 To Station 68+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, Daxbery - Ron Jakominich PE (703) 849-0651  
SUBSURFACE UTILITY BY DATE Accurmark - Michael Taylor LS (703) 635-3060, 12/2021

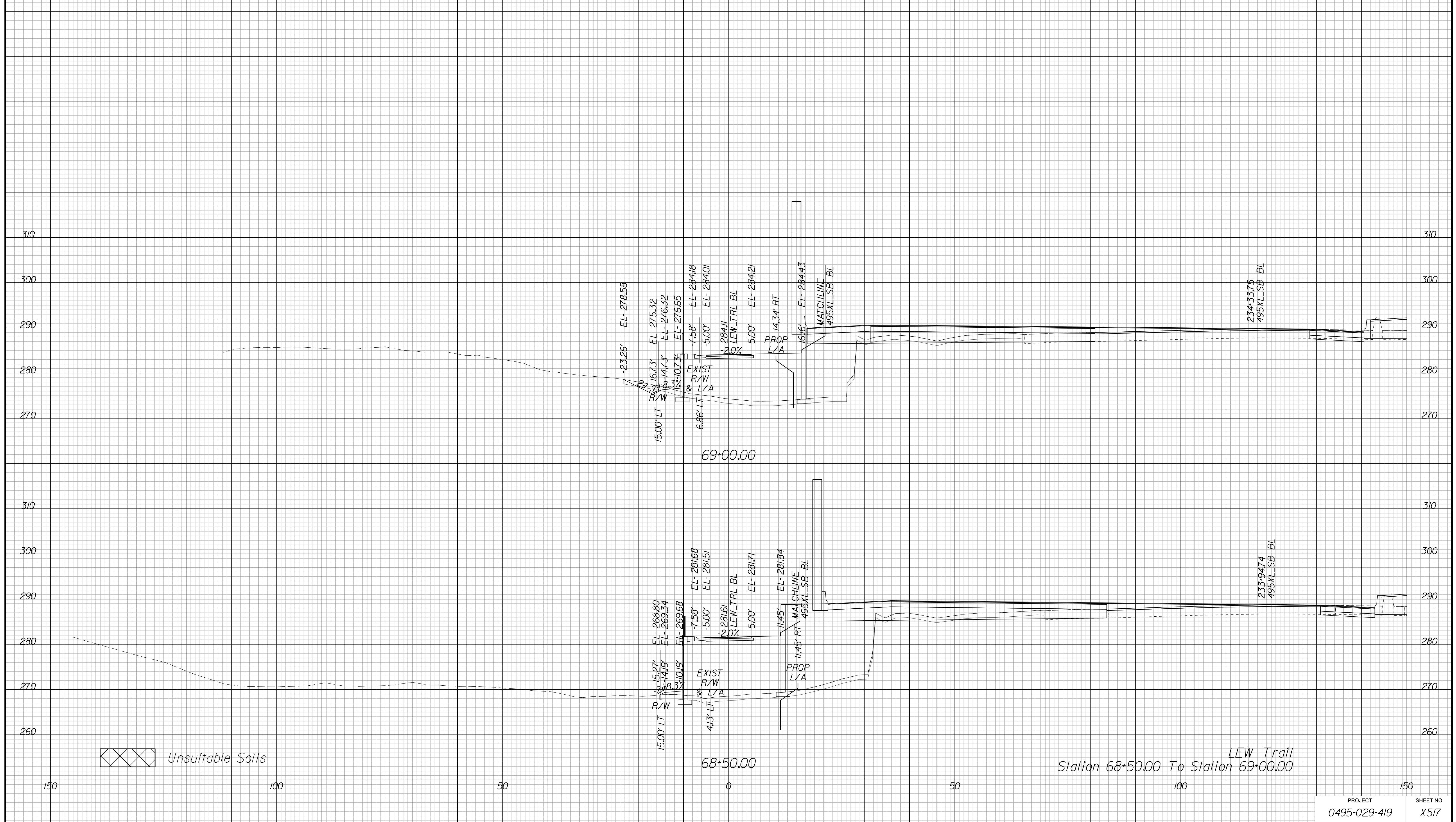
# CROSS SECTIONS

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	X517 AREA 3

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  
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SUBSURFACE UTILITY BY DATE Accurmark - Michael Taylor LS (703) 635-3060, 12/2021

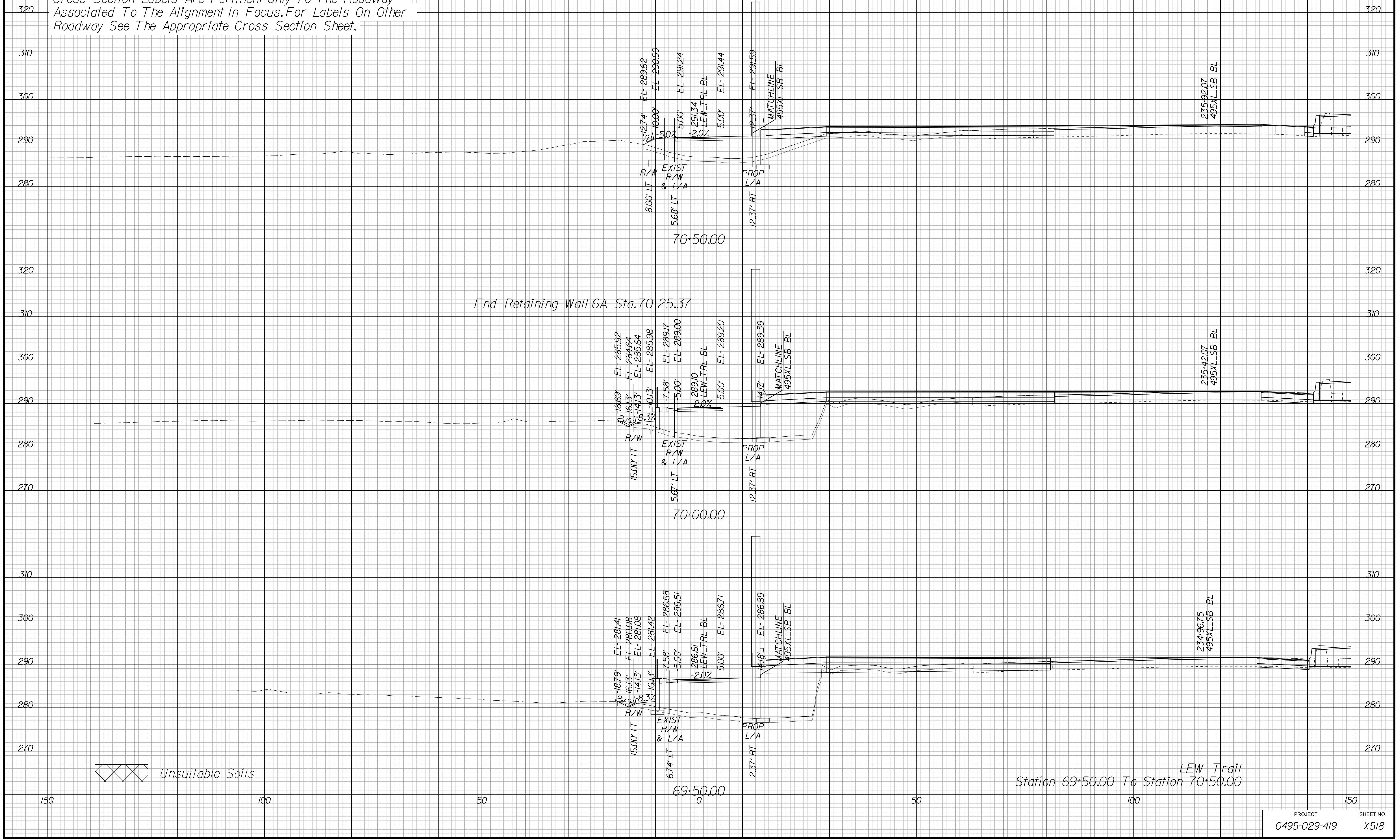
# CROSS SECTIONS

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	X518 AREA 3

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 6A Sta. 70+25.37

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

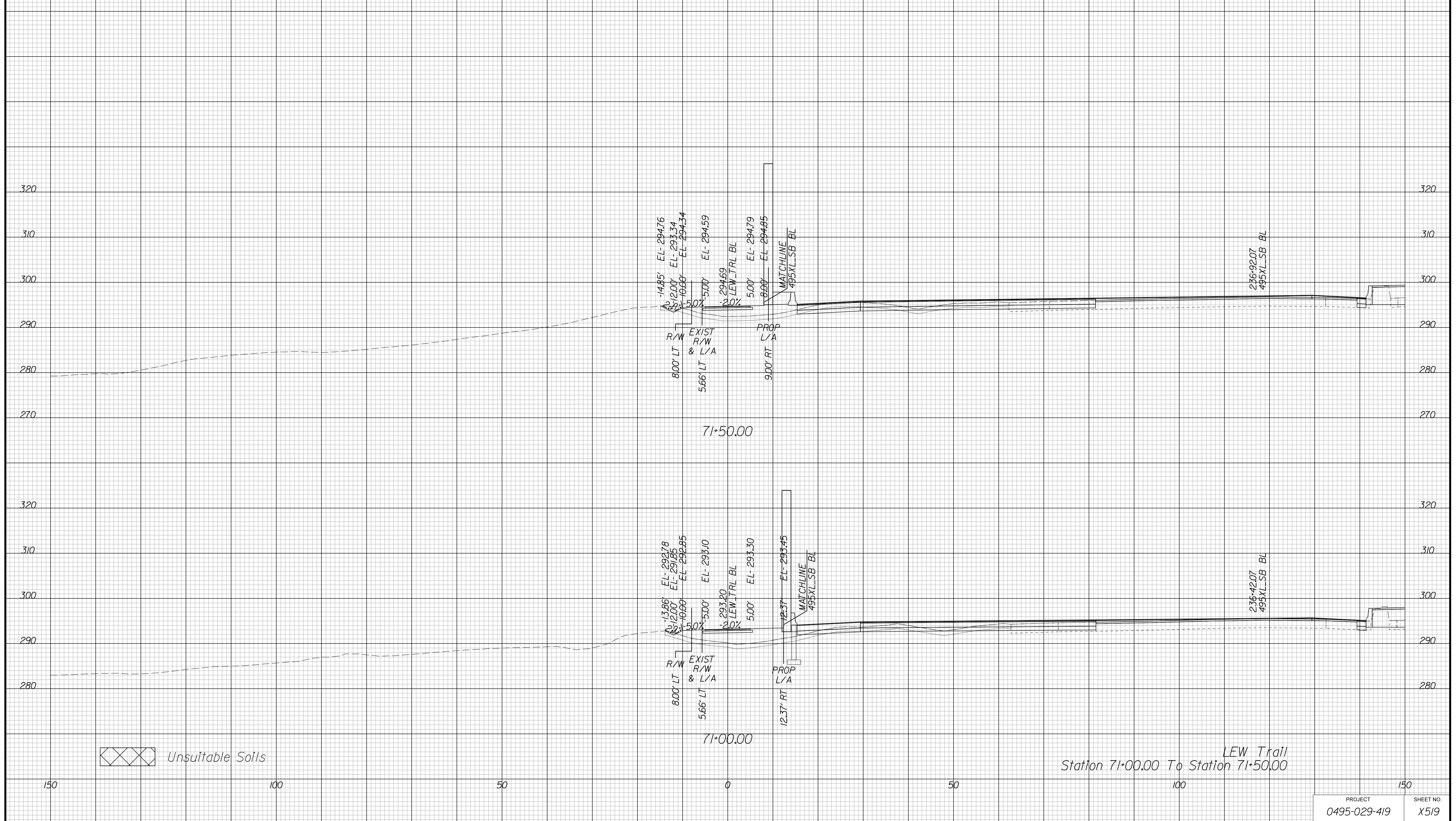
# CROSS SECTIONS

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	X519 AREA 3

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.



Unsuitable Soils

APPROVED FOR CONSTRUCTION

PROJECT	SHEET NO.
0495-029-419	X519

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

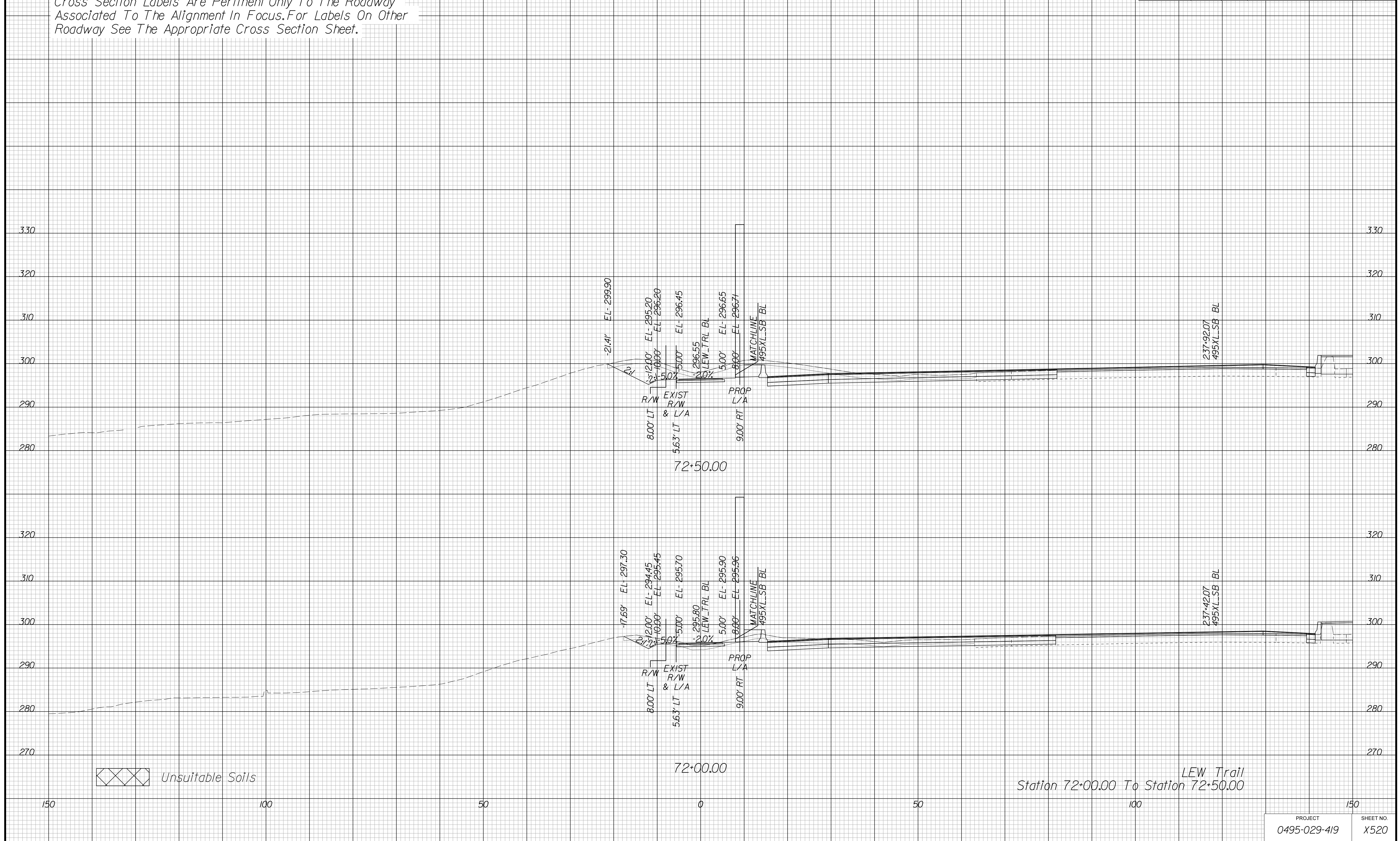
# CROSS SECTIONS

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	X520 AREA 3

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	X520



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

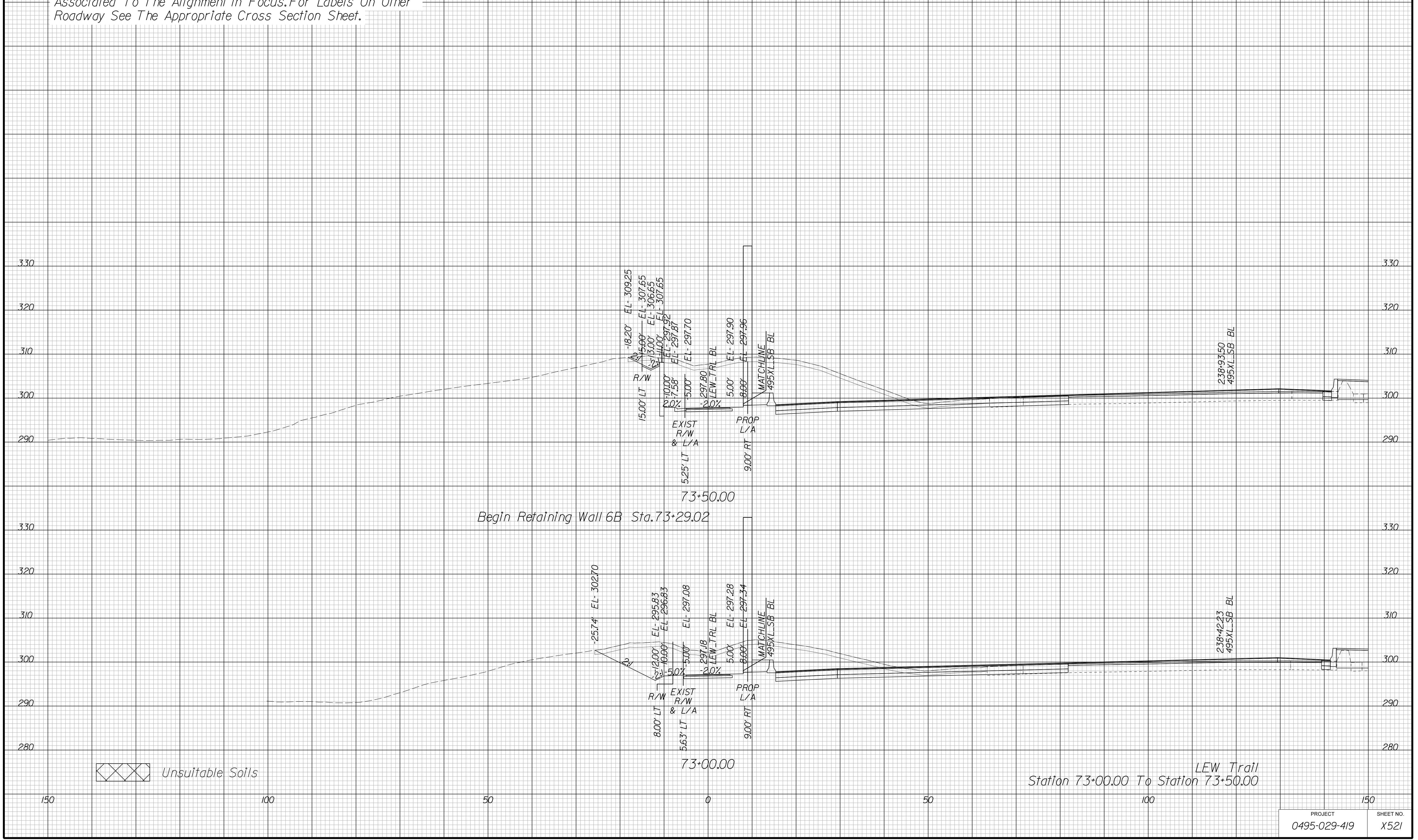
# CROSS SECTIONS

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	X521 AREA 3

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

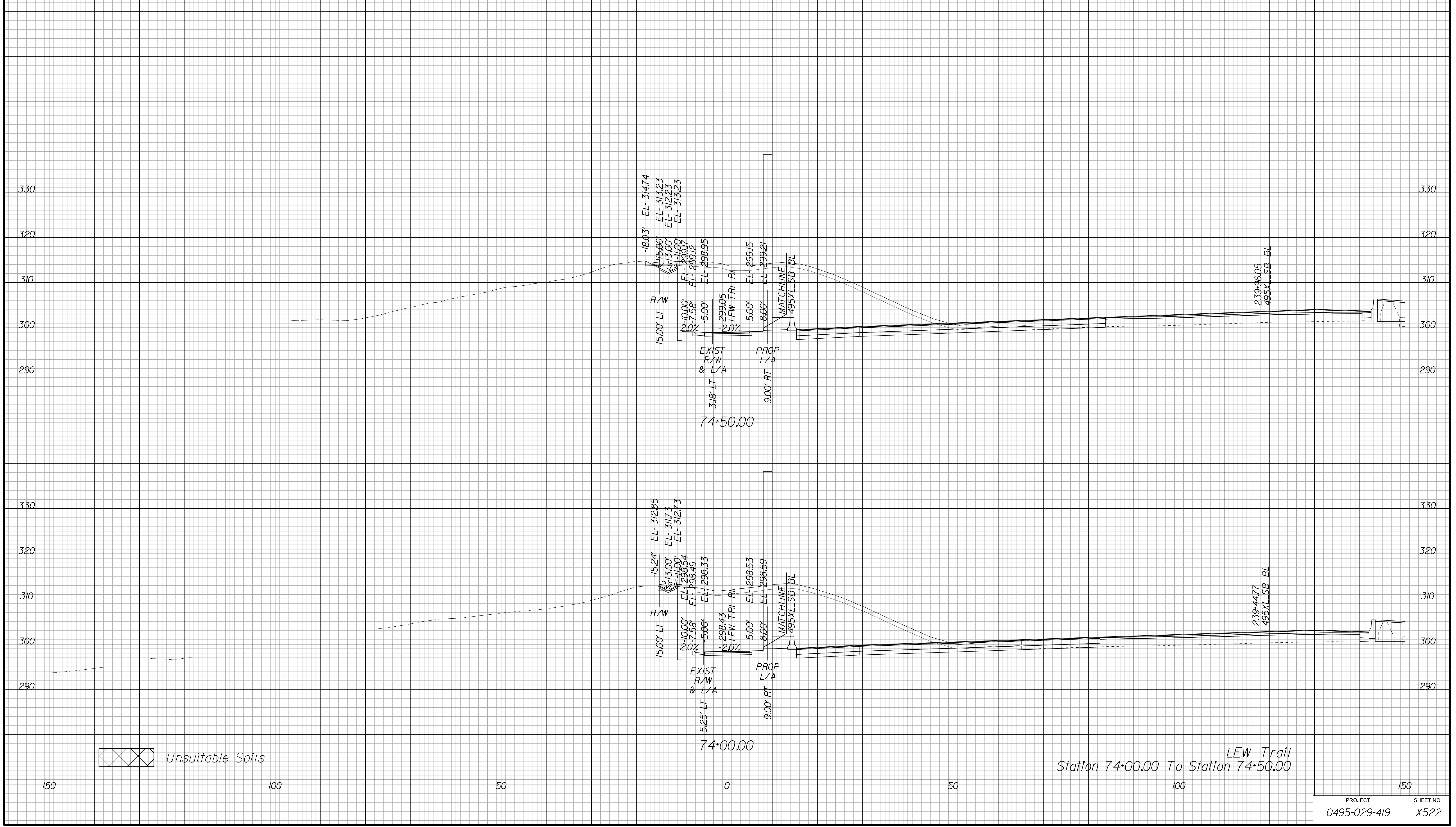
# CROSS SECTIONS

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	X522 AREA 3

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

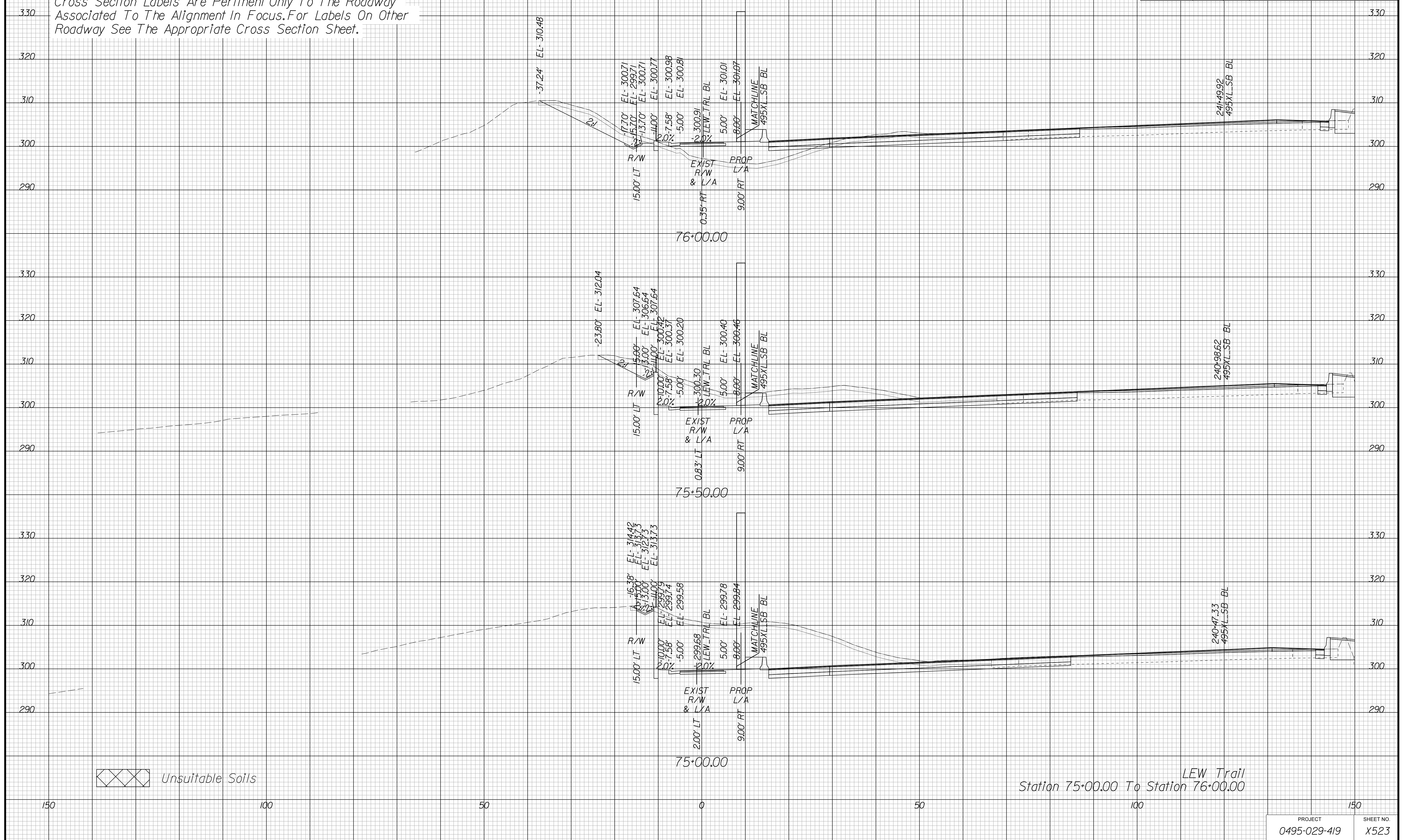
# CROSS SECTIONS

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

REVIS	STATE	ROUTE	STATE PROJECT	SHEET NO.
	VA.	495	0495-029-419	X523 AREA 3

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.



Unsuitable Soils

LEW Trail  
Station 75+00.00 To Station 76+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

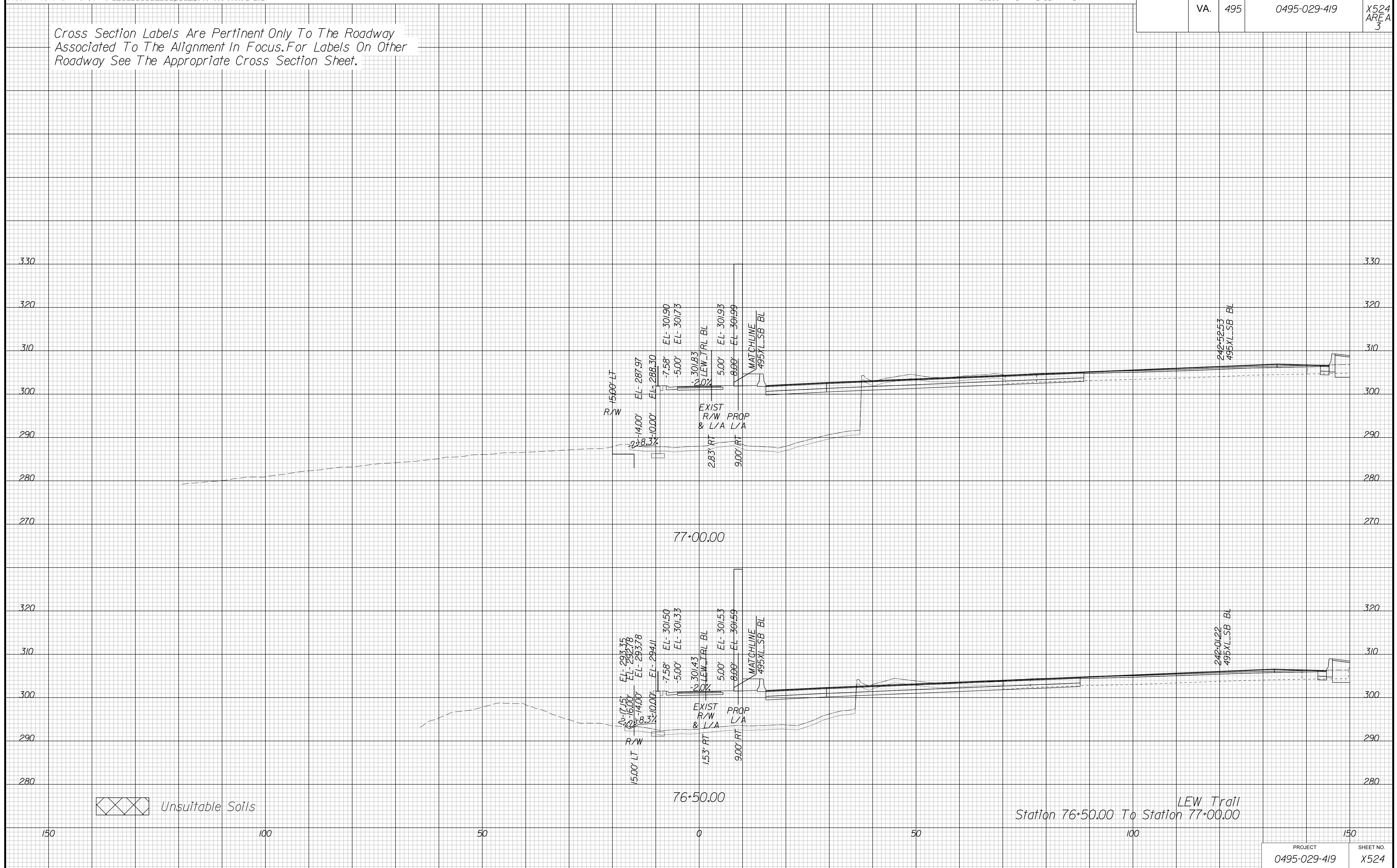
# CROSS SECTIONS

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	X524 AREA 3

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	X524



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

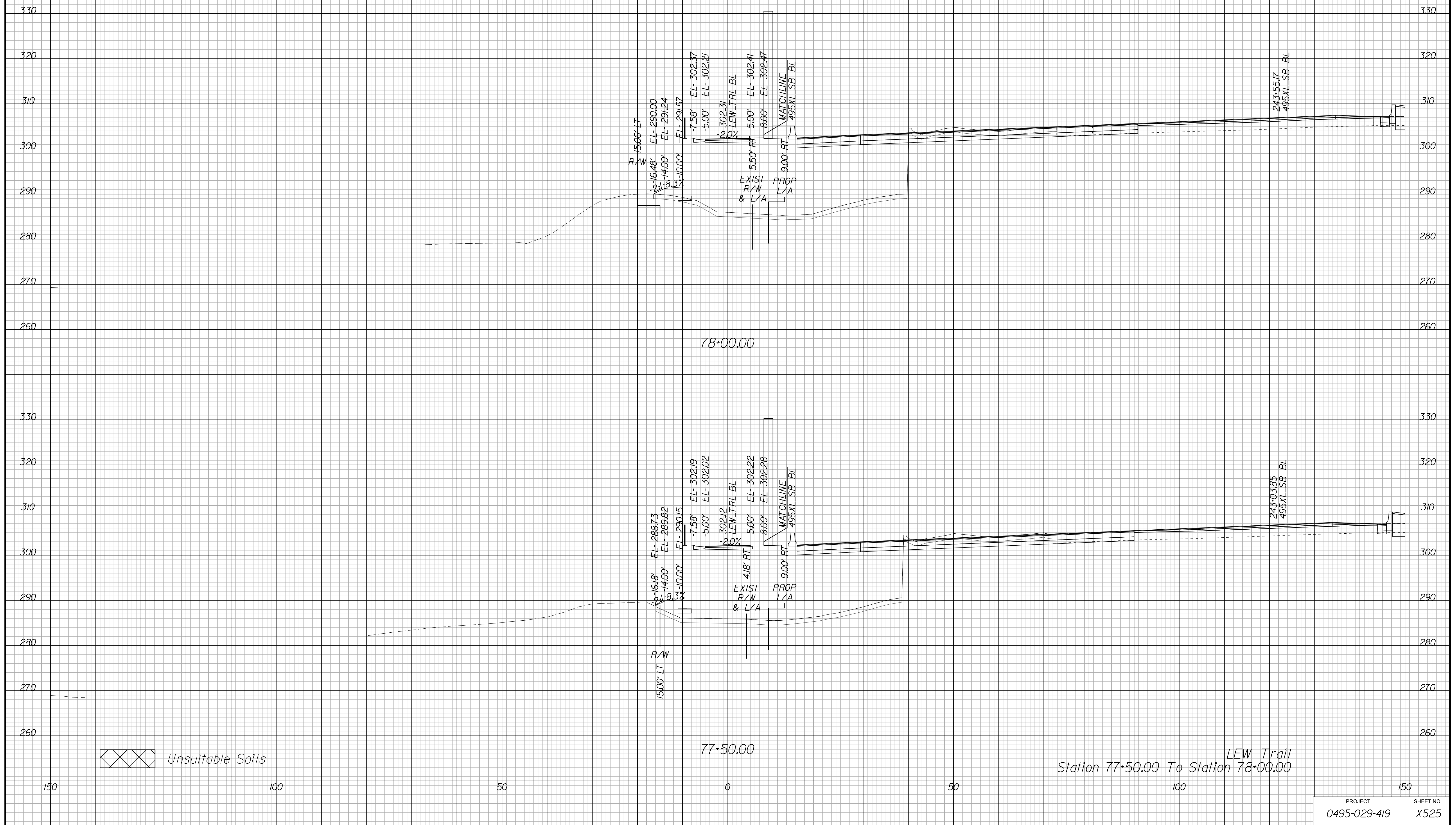
# CROSS SECTIONS

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	X525 AREA 3

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

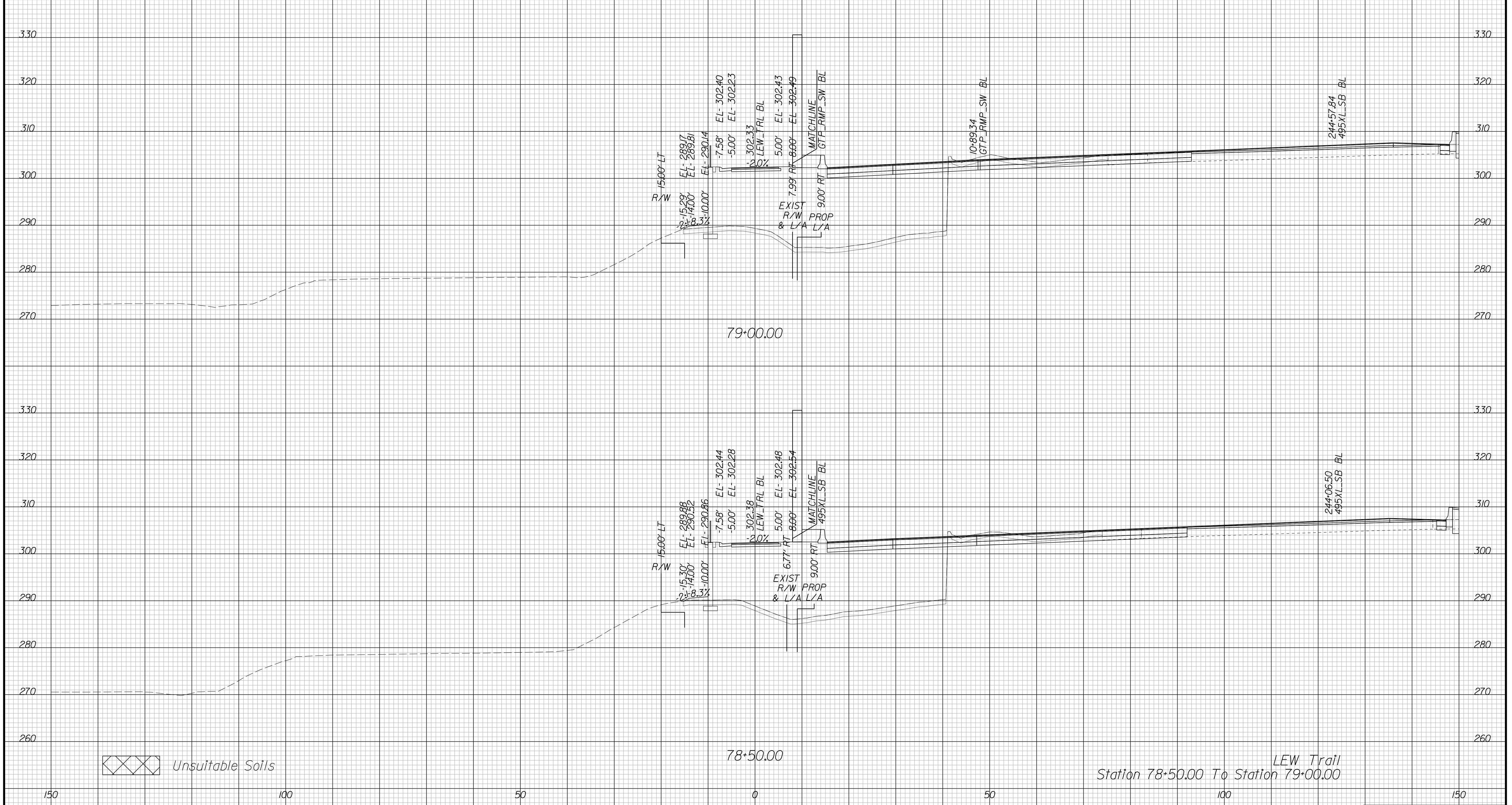
# CROSS SECTIONS

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	X526 AREA 3

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

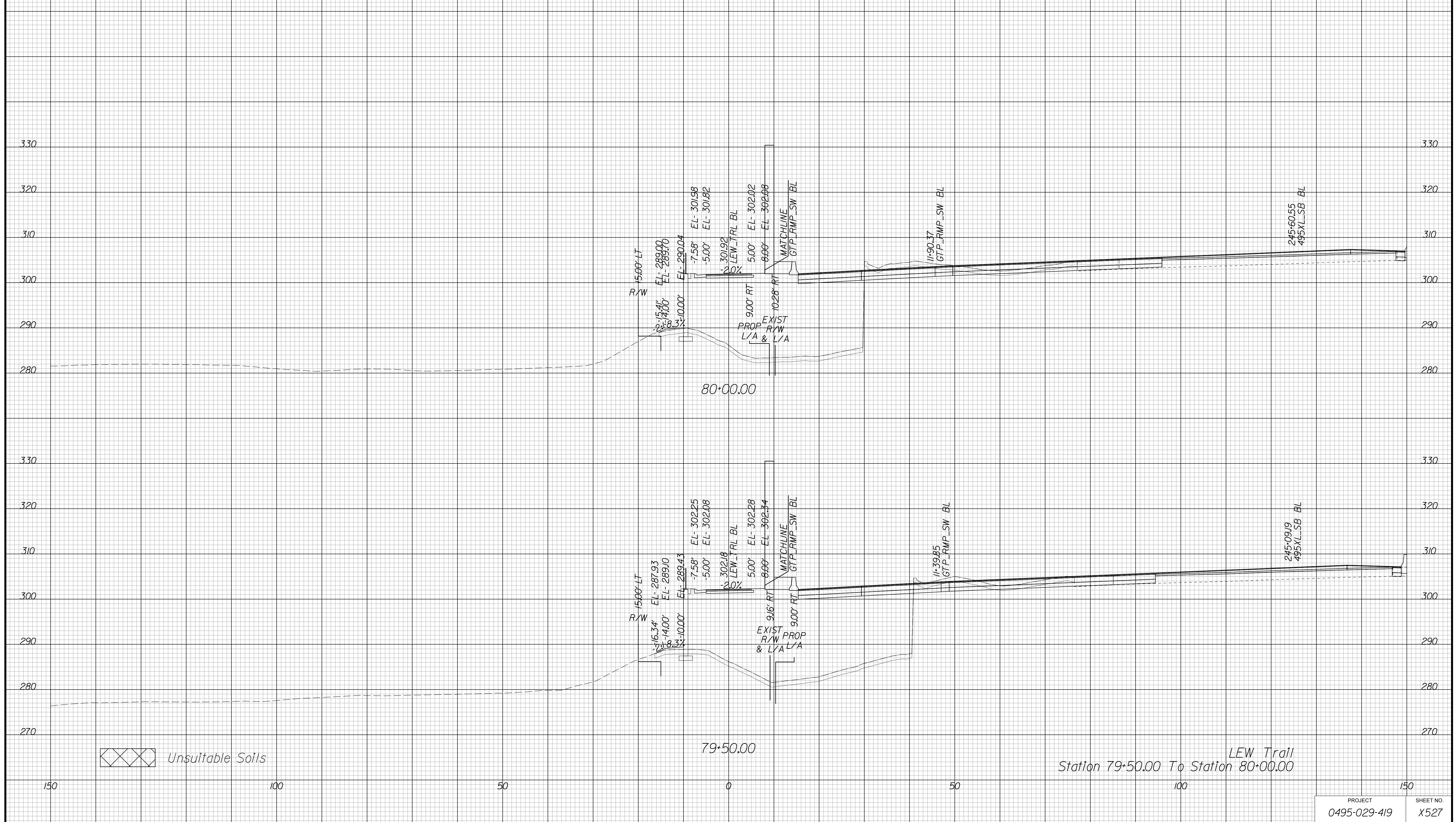
# CROSS SECTIONS

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	X527 AREA 3

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	X527

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

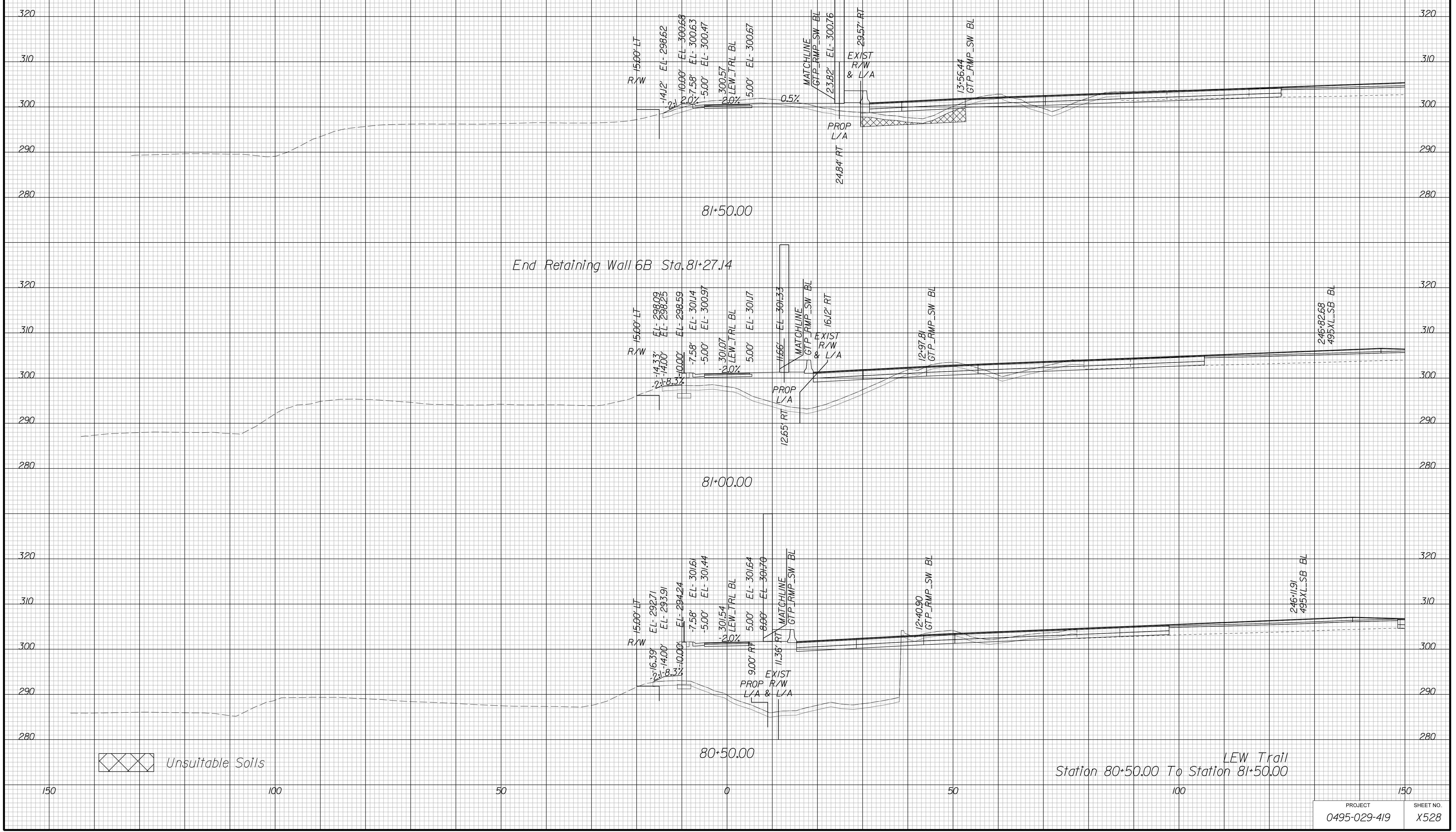
# CROSS SECTIONS

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	X528 AREA 3

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.



Unsuitable Soils

LEW Trail  
Station 80+50.00 To Station 81+50.00

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 - 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

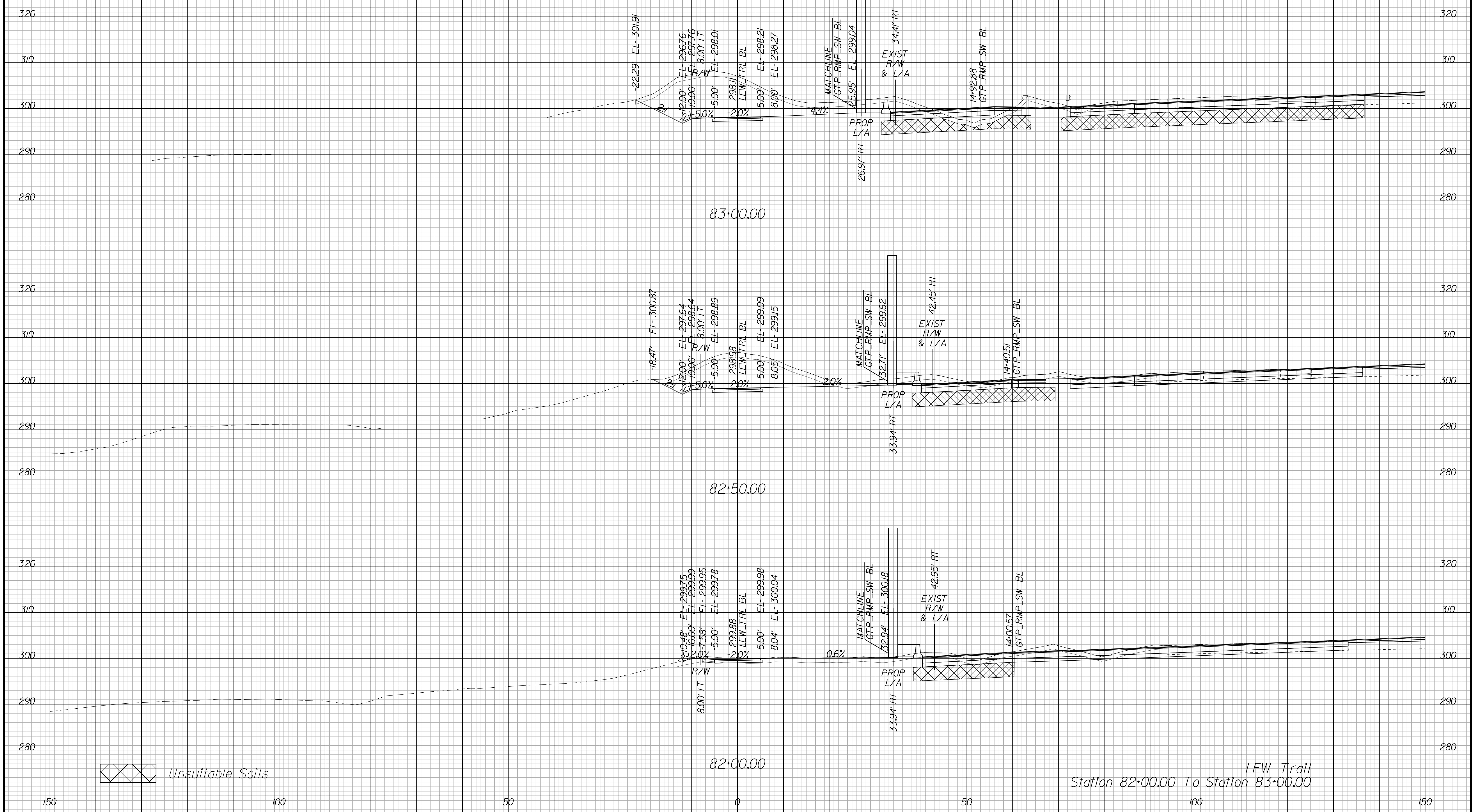
# CROSS SECTIONS

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	X529 AREA 3

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

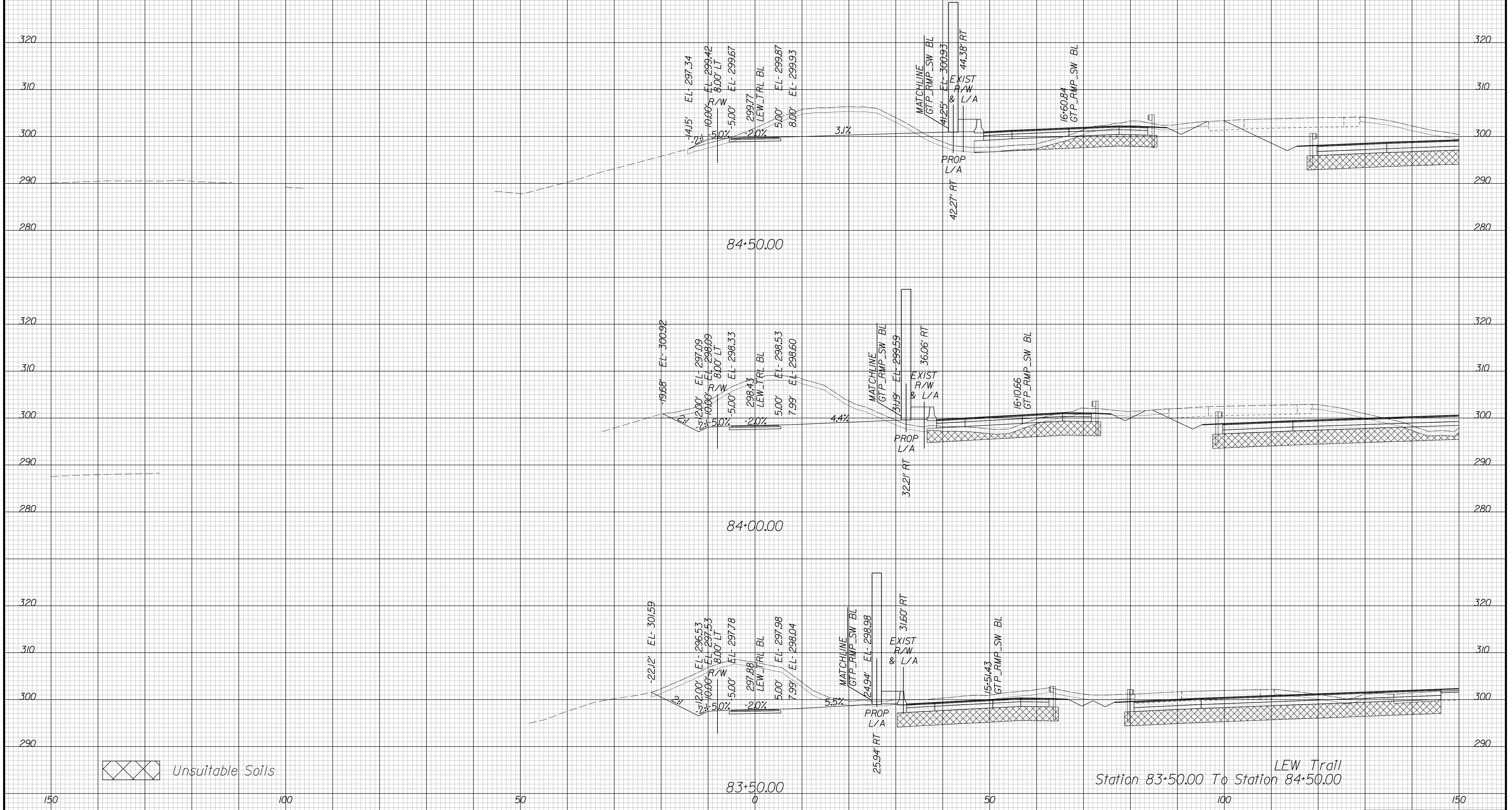
# CROSS SECTIONS

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	X530 AREA 3

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.



Unsuitable Soils

LEW Trail  
Station 83+50.00 To Station 84+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, Daxbery - Ron Jakominich PE (703) 849-0651  
SUBSURFACE UTILITY BY DATE Accurmark - Michael Taylor LS (703) 635-3060, 12/2021

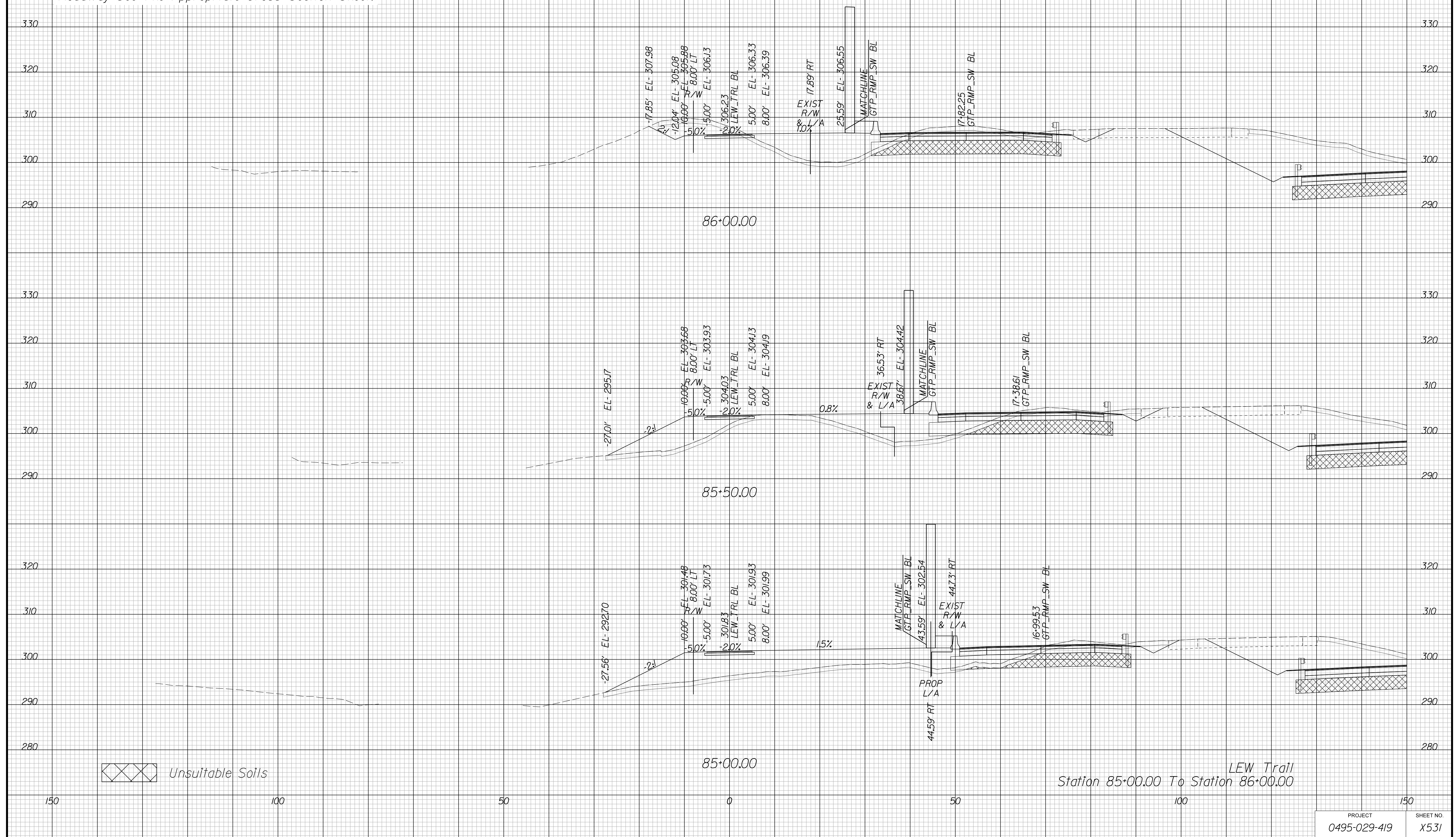
# CROSS SECTIONS

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	X531 AREA 3

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

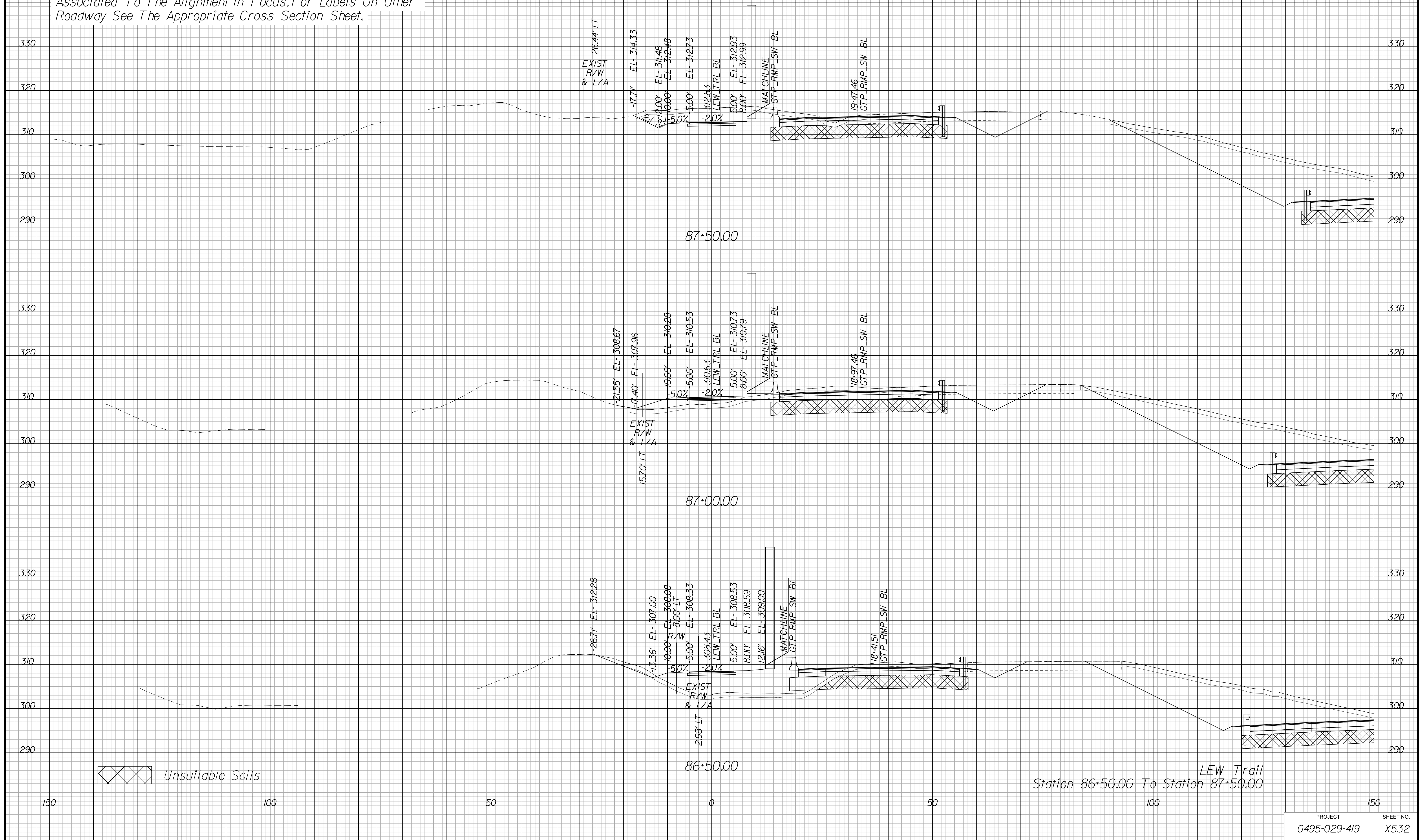
# CROSS SECTIONS

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	X532 AREA 3

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

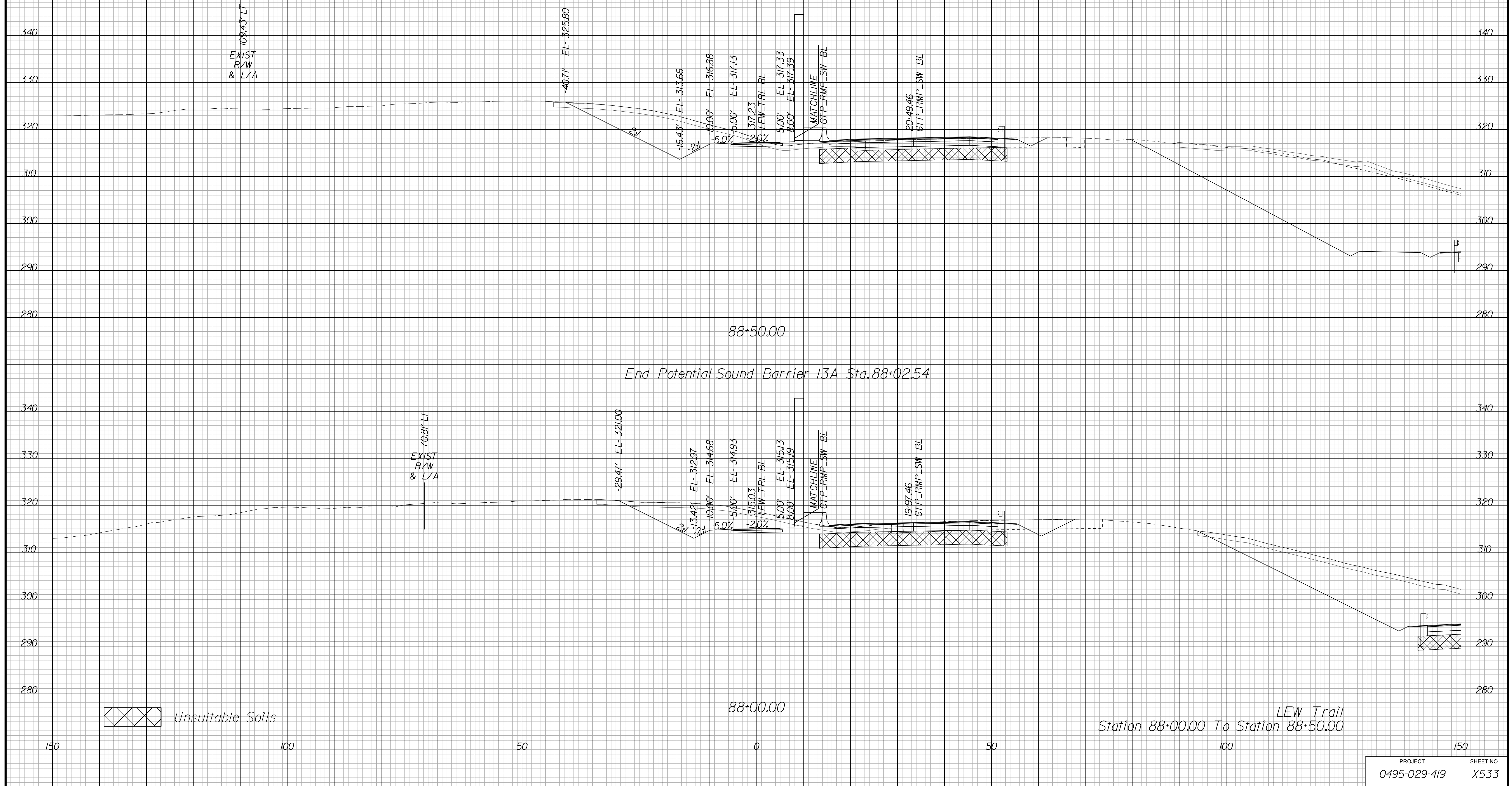
# CROSS SECTIONS

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	X533 AREA 3

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

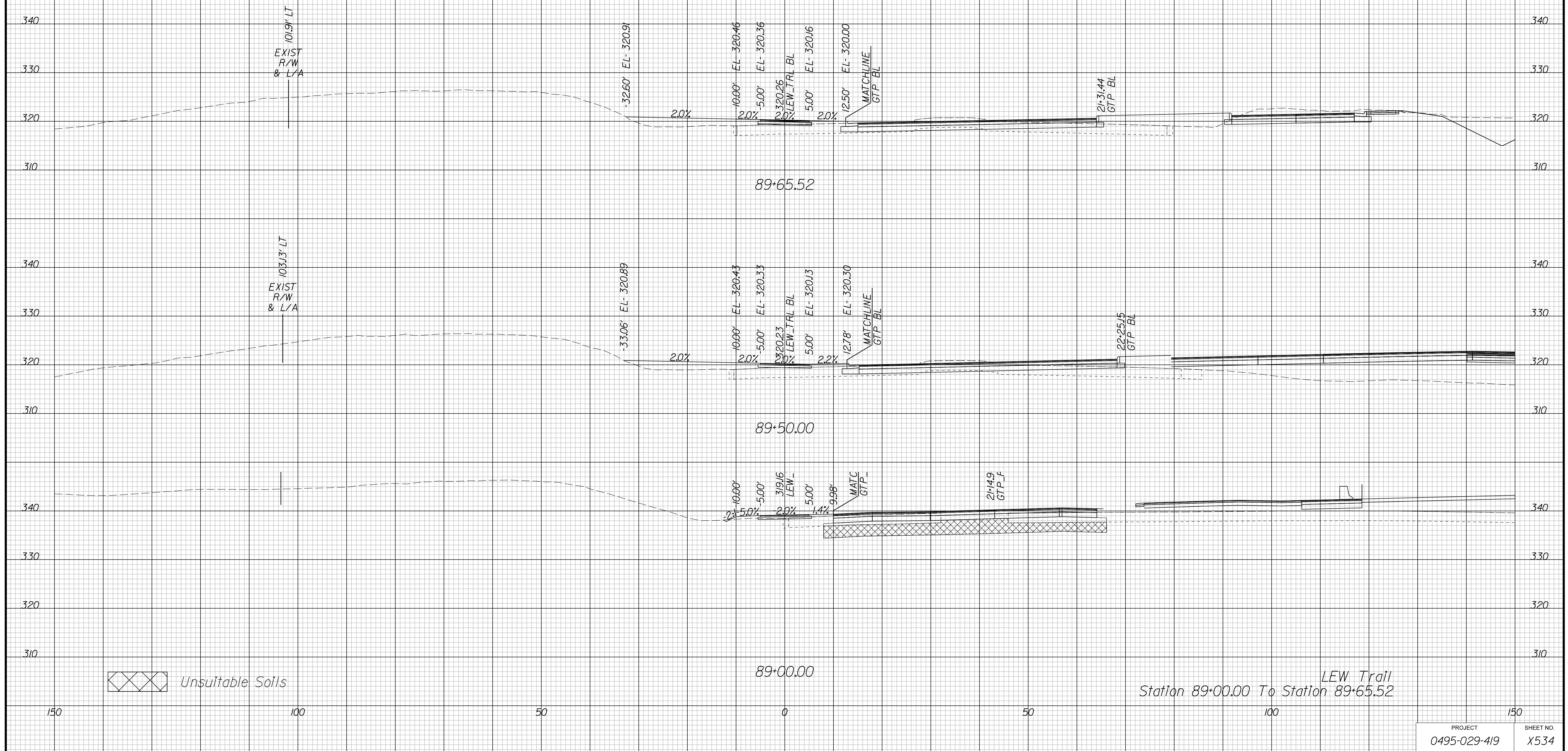
# CROSS SECTIONS

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	X534 AREA 3

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



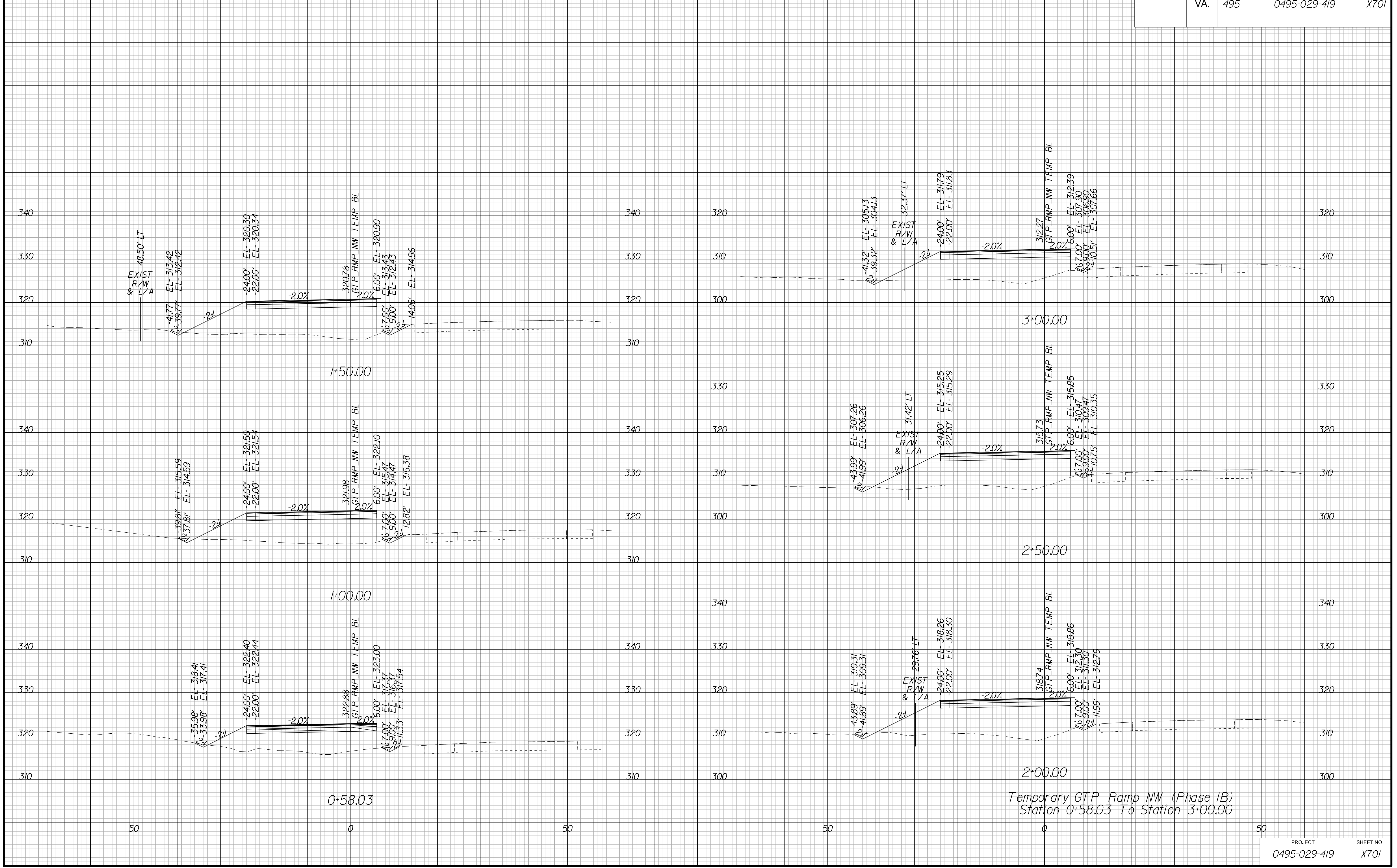
PROJECT MANAGER VDOT - Bimbal Stab PE (703) 259-2362  
SURVEYED BY DATE BDA - Nicholas Kougoulis LS (703) 334-0837, 12/2021  
DESIGN BY BDA - Darrell Elischer BE (703) 334-0823, Dawberly - Ron Jakominich PE (703) 849-0651  
SUBSURFACE UTILITY BY DATE Accurmark - Michael Taylor LS (703) 635-3060, 12/2021

# 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	X701



APPROVED FOR CONSTRUCTION

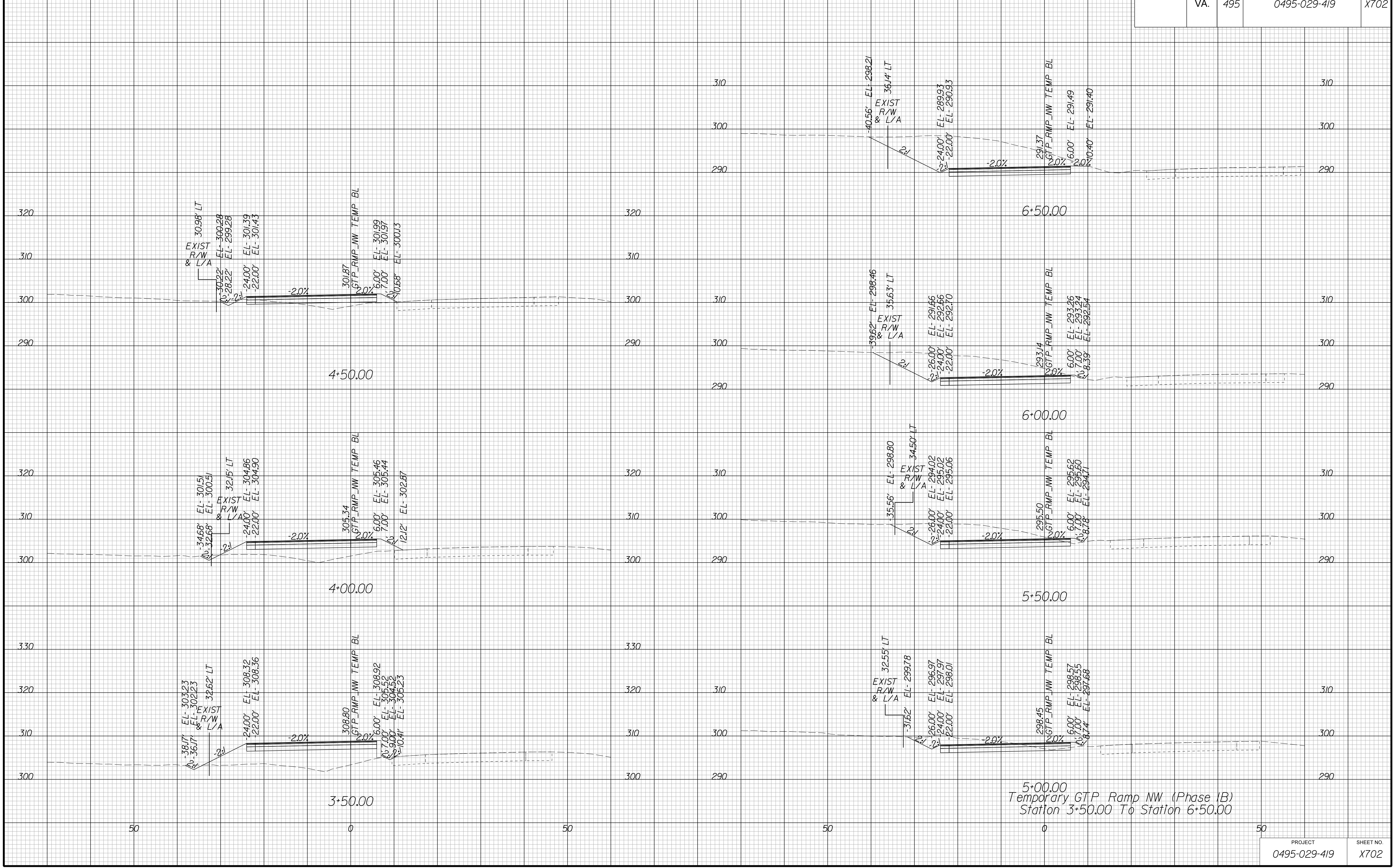
PROJECT MANAGER VDOT - Bimal Saha PE (703) 259-2362  
SURVEYED BY, DATE BDA - Nicholas Kougioulis LS (703) 334-0837, 12/2021  
DESIGN BY BDA - Darrell Elischer BE (703) 334-0823, Dexberry - Ron Jakominich PE (703) 849-0651  
SUBSURFACE UTILITY BY, DATE Accurmark - Michael Taylor LS (703) 635-3060, 12/2021

# 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	X702



APPROVED FOR CONSTRUCTION



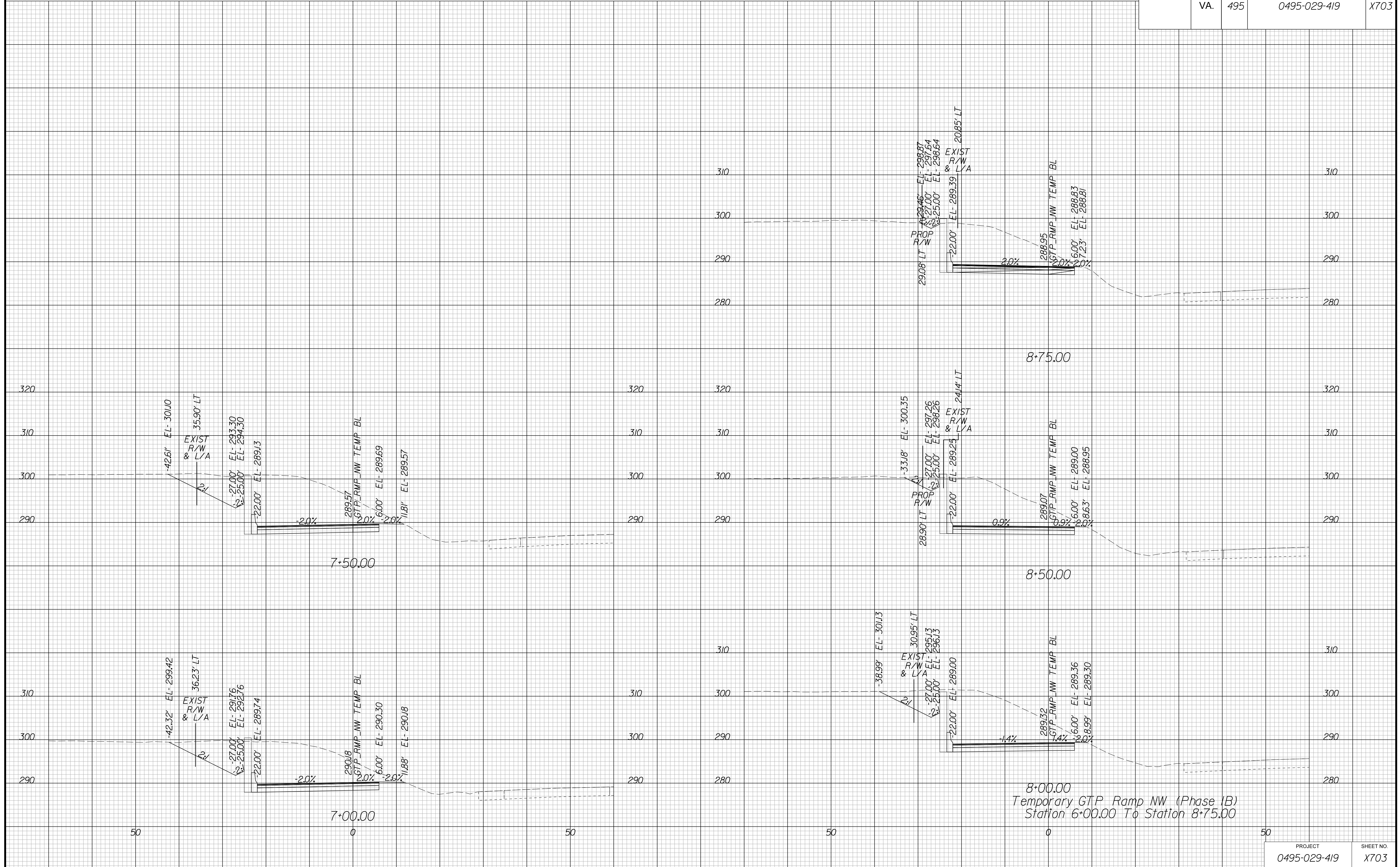
PROJECT MANAGER VDOT - Bimbal Stab PE (703) 259-2362  
SURVEYED BY, DATE BDA - Nicholas Kougoulis LS (703) 334-0837, 12/2021  
DESIGN BY BDA - Darrell Eischer BE (703) 334-0823, Dexberry - Ron Jakominich PE (703) 849-0651  
SUBSURFACE UTILITY BY, DATE Accurmark - Michael Taylor LS (703) 635-3060, 12/2021

# 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	X703



APPROVED FOR CONSTRUCTION

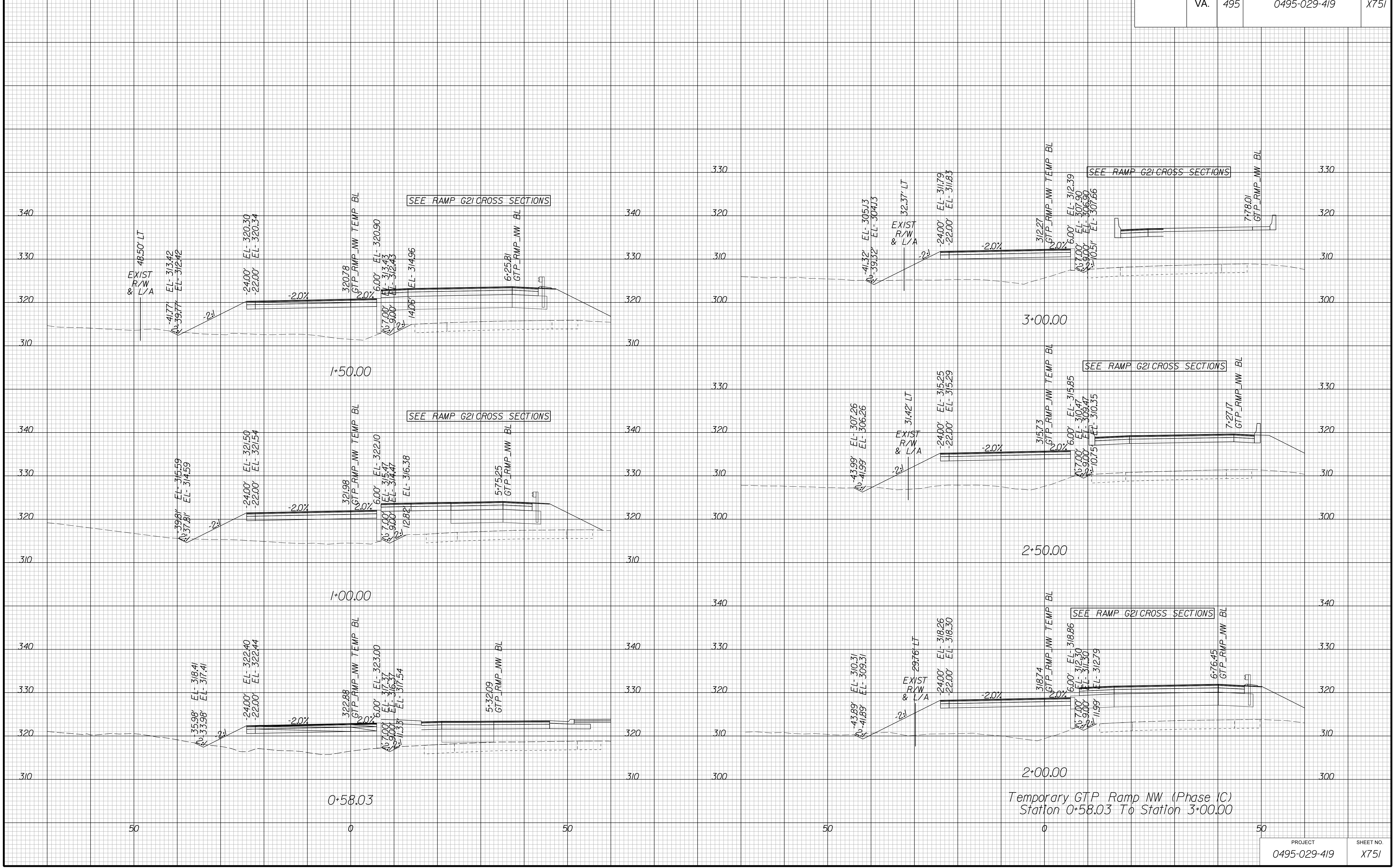
PROJECT MANAGER VDOT - Bimbal Stab PE (703) 259-2362  
SURVEYED BY DATE BDA - Nicholas Kougoulis LS (703) 334-0837, 12/2021  
DESIGN BY BDA - Darrell Elischer BE (703) 334-0823, Dawberly - Ron Jakominich PE (703) 849-0651  
SUBSURFACE UTILITY BY DATE Accurmark - Michael Taylor LS (703) 635-3060, 12/2021

# 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

REVIS	STATE	ROUTE	STATE	PROJECT	SHEET NO.
	VA.	495		0495-029-419	X751



APPROVED FOR CONSTRUCTION



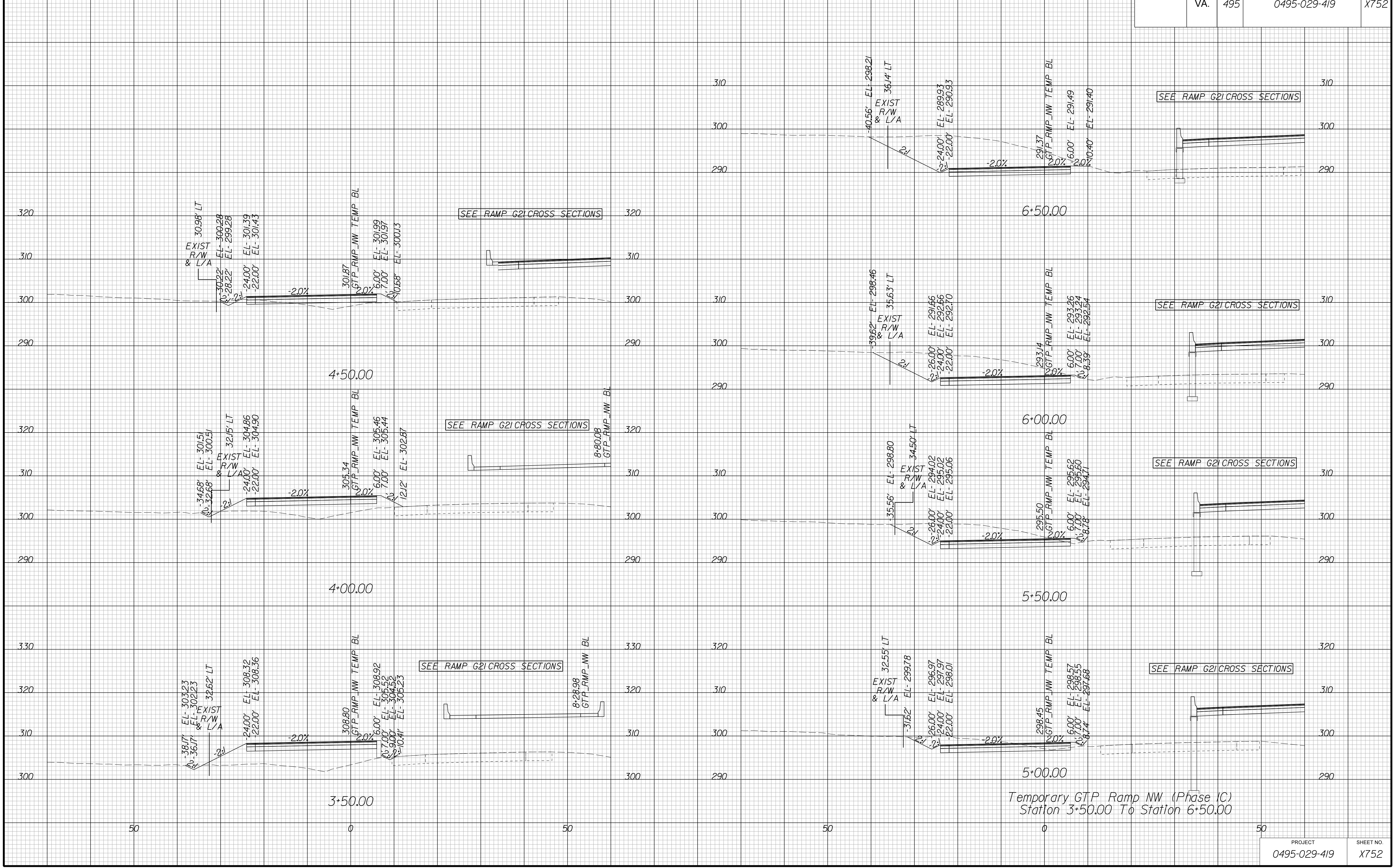
PROJECT MANAGER VDOT - Bimbal Stab PE (703) 259-2362  
SURVEYED BY DATE BDA - Nicholas Kougoulis LS (703) 334-0837, 12/2021  
DESIGN BY BDA - Darrell Elischer BE (703) 334-0823, Dawbercy - Ron Jakominich PE (703) 849-0651  
SUBSURFACE UTILITY BY DATE Accurmark - Michael Taylor LS (703) 635-3060, 12/2021

# 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

REVISION	STATE	ROUTE	STATE PROJECT	SHEET NO.
	VA.	495	0495-029-419	X752



APPROVED FOR CONSTRUCTION

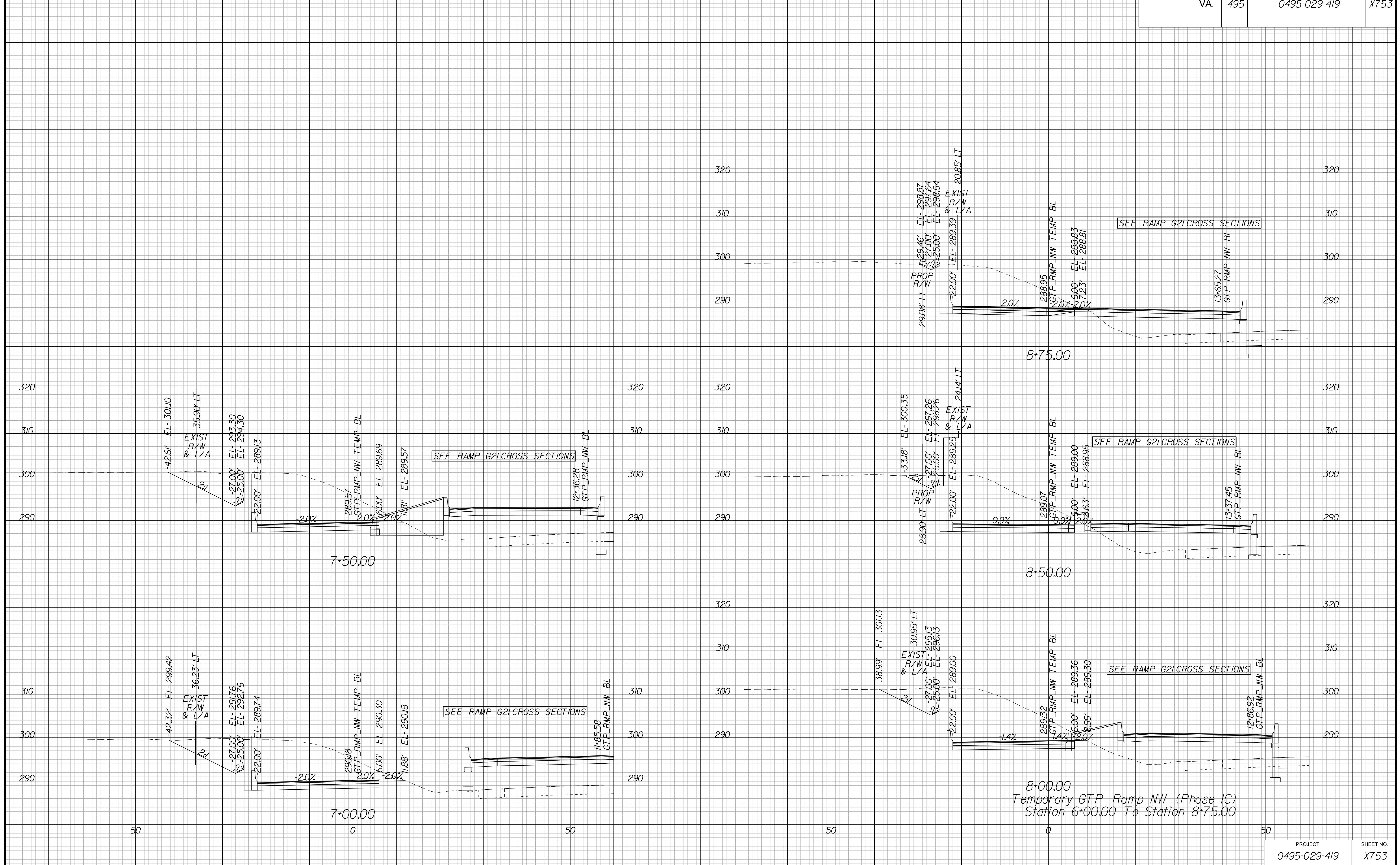
PROJECT MANAGER VDOT - Bimbal Stob PE (703) 259-2362  
SURVEYED BY, DATE BDA - Nicholas Kougoulis LS (703) 334-0837, 12/2021  
DESIGN BY BDA - Darrell Eischer PE (703) 334-0823, Dexbery - Ron Jakominich PE (703) 849-0651  
SUBSURFACE UTILITY BY, DATE Accurmark - Michael Taylor LS (703) 635-3060, 12/2021

# 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	X753



APPROVED FOR CONSTRUCTION