

Rte.	Road Name	Posted Speed	GS S'd.	Dir	K	Truck %	VDOT 2017 AADT
1	Jefferson Davis Hwy.	35	GS-5	0.618	0.083	4	38,000
638	Blackburn Rd.	35	GS-7	0.596	0.097	3	5,100
1782	Smoke Ct.	25	GS-8	-	-	-	-
784	Dale Blvd.	45	GS-6	0.638	0.082	4	48,000
610	Cardinal Dr.	45	GS-6	0.575	0.091	2	18,000
610	Neabasco Rd.	35	GS-8	0.518	0.102	2	5,700

* Per VDOT's 2017 Daily Traffic Volume Estimates

FOR INDEX OF SHEETS SEE SHEET 1B

THIS PROJECT WAS DEVELOPED UTILIZING THE DEPARTMENT'S ENGINEERING DESIGN PACKAGE (OPENROADS). VDOT'S Computer Identification No. (107947)

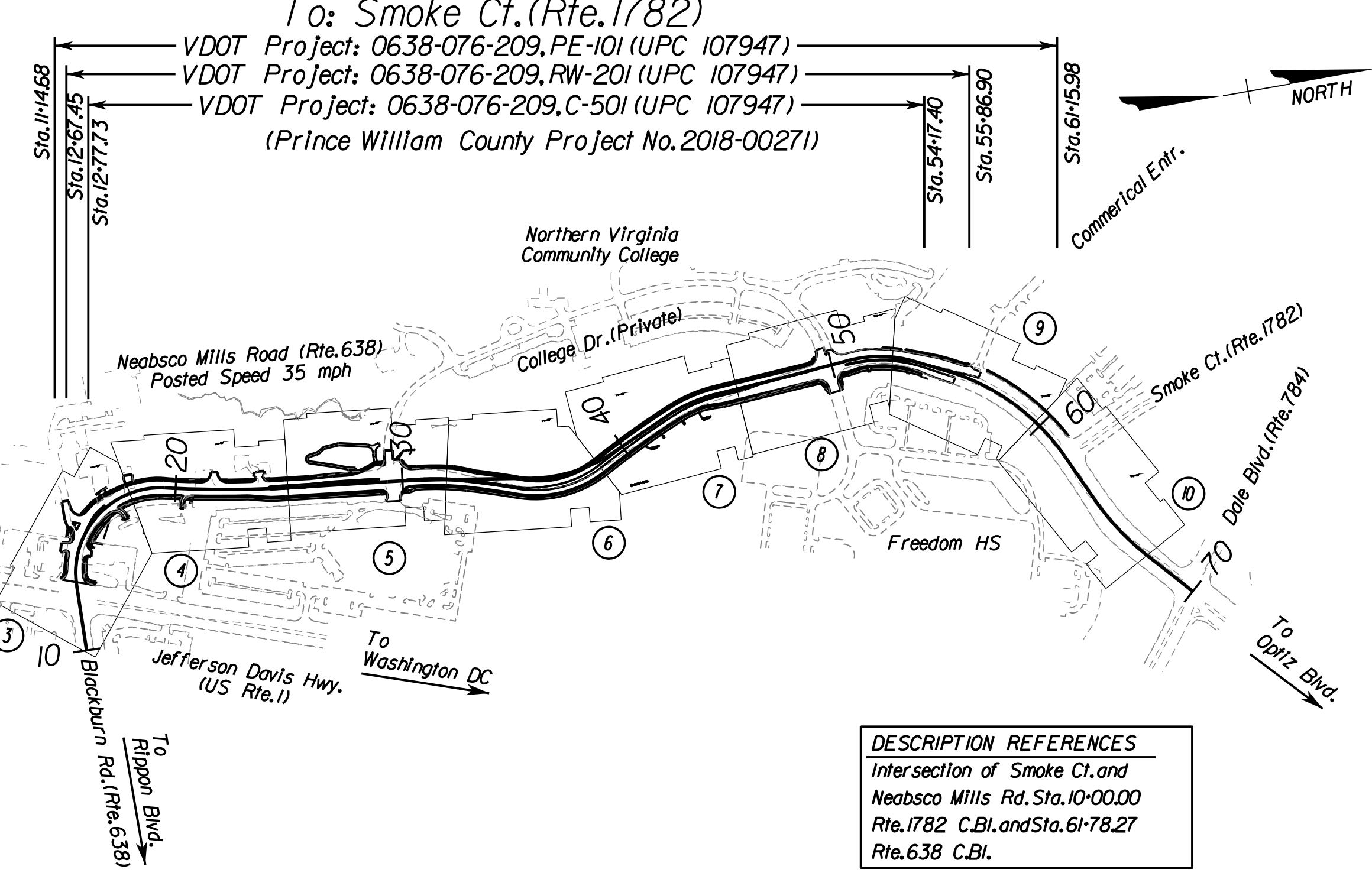
VDOT FUNCTIONAL CLASSIFICATION LEGEND

- GS-1 (Rural Principal Arterial System)
- GS-2 (Rural Minor Arterial System)
- GS-3 (Rural Collector Rd. System)
- GS-4 (Rural Local Rd. System)
- GS-5 (Urban Principal Arterial System)
- GS-6 (Urban Minor Arterial St. System)
- GS-7 (Urban Collector St. System)
- GS-8 (Urban Local St. System)
- GS-9 (Service Road)

PRINCE WILLIAM COUNTY LOCALLY ADMINISTERED PROJECT

NEABSCO MILLS ROAD (RTE. 638) - WIDEN TO 4 LANES

From: Jefferson Davis Highway (US Rte.1)
To: Smoke Ct. (Rte.1782)



DESCRIPTION REFERENCES
Intersection of Neabasco Mills Rd. and US Rte.1 Sta.12+09.87
Rte.638 C.B.I. and Sta.506+86.89 Rte.1 C.B.I.

DESCRIPTION REFERENCES
Intersection of Smoke Ct. and Neabasco Mills Rd. Sta.10+00.00 Rte.1782 C.B.I. and Sta.61+78.27 Rte.638 C.B.I.

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, INCLUDING ALL SUBSEQUENT REVISIONS. WILL BE THE OFFICIAL CONSTRUCTION PLANS. FOR INFORMATION RELATIVE TO ELECTRONIC FILES AND LAYERED PLANS, SEE THE GENERAL NOTES.

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 2016 ROAD AND BRIDGE SPECIFICATIONS, 2016 ROAD AND BRIDGE STANDARDS, 2009 MUTCD, 2011 VIRGINIA SUPPLEMENT TO THE MUTCD, 2011 VIRGINIA WORK AREA PROTECTION MANUAL 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-5.11U, EXCEPT WHERE OTHERWISE NOTED.

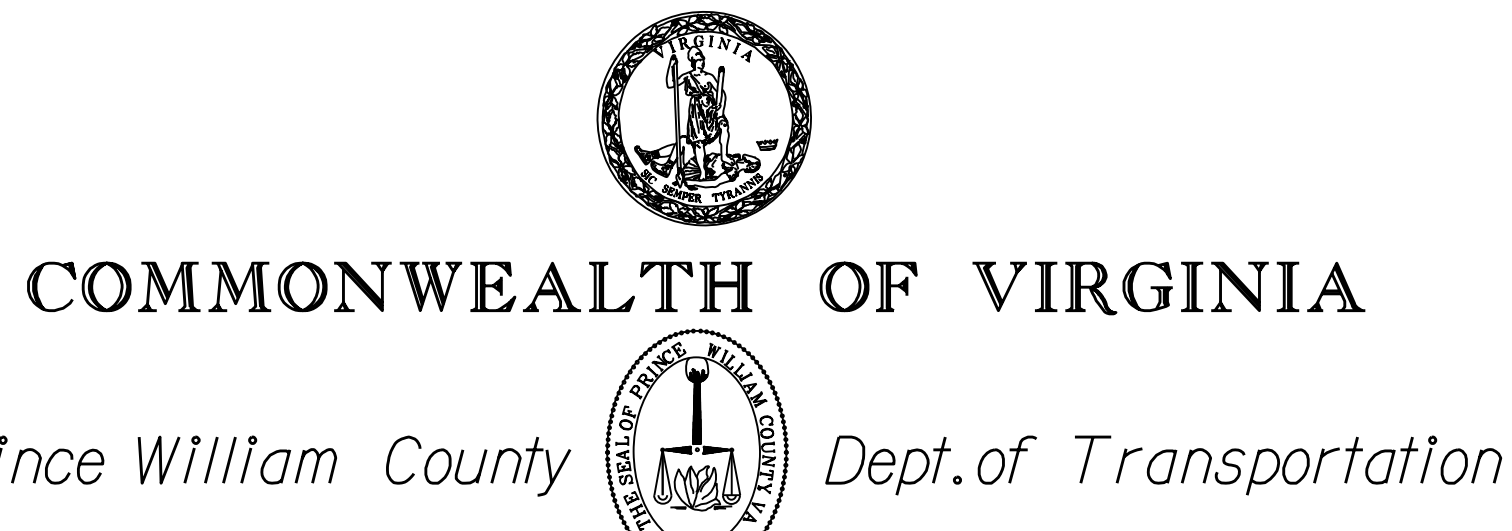
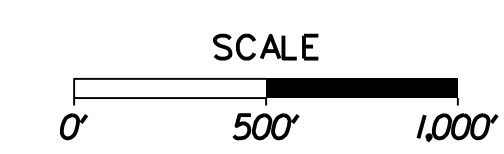
THE ORIGINAL APPROVED TITLE SHEET(S), INCLUDING ORIGINAL SIGNATURES, IS FILED IN THE VDOT CENTRAL OFFICE PLAN LIBRARY. ANY MISUSE OF ELECTRONIC FILES, INCLUDING SCANNED SIGNATURES, IS ILLEGAL AND ENFORCED TO THE FULL EXTENT OF THE LAW.

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

STATE PROJECT NO.	SECTION	FEDERAL AID PROJECT NO.	TYPE CODE	UPC NO.	LENGTH INCLUDING BRIDGE(S)		LENGTH EXCLUDING BRIDGE(S)		TYPE PROJECT	DESCRIPTION
					FEET	MILES	FEET	MILES		
0638-076-209	PE-101	STP-5A01(B11)	-	107947	5,001.30	0.947	5,001.30	0.947	Prelim. Eng.	Rte.1 to Rte.1782 Sta.11+468 to 61+598
	C-501		F000	107947	4,139.67	0.784	4,139.67	0.784	Construction	Rte.1 to Rte.1782 Sta.12+77.3 to 54+17.40
	RW-201		-	107947	4,319.45	0.818	4,319.45	0.818	Right of Way	Rte.1 to Rte.1782 Sta.12+67.45 to 55+86.90

Project Lengths are based on Rte.638 Construction Baseline between Sta.10+00.00 and Sta.70+04.19

R/W
PLANS
April 2019



FHWA-534 DATA 45003

STATE	FEDERAL AID PROJECT	ROUTE	STATE PROJECT	SHEET NO.
VA.	STP-5A01() (SEE TABULATION BELOW FOR SECTION NUMBERS)	638	(INFO) 0638-076-209 (SEE TABULATION BELOW FOR SECTION NUMBERS)	1

NON NHS URBAN MAJOR COLLECTOR-ROLLING-35 MPH MIN. DESIGN SPEED	
For additional info. see Functional Classification and Traffic Data Matrix (This Sheet)	NEABSCO MILLS ROAD RTE.638 (GS-7)
Fr: JEFFERSON DAVIS HWY.(US RTE.1)	To: SMOKE CT.(RTE.1782)
** AADT (2017)	12,000
ADT (2042)	20,081
DHV	1,506
D (%) (design hour)	62
T (%) (design hour)	2
V (MPH)	*
DESIGN VEHICLE	WB-62 & S-BUS-40

TIER 2 PROJECT	
LOCALLY ADMINISTERED PROJECTS	
PRINCE WILLIAM COUNTY DEPARTMENT OF TRANSPORTATION	
RECOMMENDED FOR APPROVAL FOR RIGHT OF WAY ACQUISITION (PARTIAL TAKES)	
DATE	CHIEF OF ENGINEERING AND CONSTRUCTION
LOCALLY ADMINISTERED PROJECTS	
PRINCE WILLIAM COUNTY DEPARTMENT OF TRANSPORTATION	
RECOMMENDED FOR APPROVAL FOR CONSTRUCTION	
DATE	CHIEF OF ENGINEERING AND CONSTRUCTION
RECOMMENDED FOR APPROVAL FOR RIGHT OF WAY ACQUISITION (PARTIAL TAKES)	
DATE	INFRASTRUCTURE INVESTMENT DIRECTOR
DATE	STATE LOCATION AND DESIGN ENGINEER
DATE	CHIEF FINANCIAL OFFICER
DATE	CHIEF ENGINEER
APPROVED FOR RIGHT OF WAY ACQUISITION (PARTIAL TAKES)	
DATE	CHIEF OF POLICY
RECOMMENDED FOR APPROVAL FOR CONSTRUCTION	
DATE	PROGRAMMING DIVISION DIRECTOR
DATE	STATE LOCATION AND DESIGN ENGINEER
DATE	STATE STRUCTURE AND BRIDGE ENGINEER
APPROVED FOR CONSTRUCTION	
DATE	CHIEF ENGINEER
APPROVED	
DATE	DIVISION ADMINISTRATOR FEDERAL HIGHWAY ADMINISTRATION U.S. DEPARTMENT OF TRANSPORTATION

Copyright 2019, Commonwealth of Virginia
PWC/VDOT PROJECT: SPR2018-00271-S03
VDOT PROJECT: 0638-076-209
SHEET NO.: 1

THESE PLANS ARE UNFINISHED AND UNAPPROVED AND ARE NOT TO BE USED FOR ANY TYPE OF CONSTRUCTION.

R/W PHASE PLANS

Design Associates, P.C.
 PROJECT MANAGER: Khattab, Shamout, P.E. - PWC, Dept. of Transportation (703) 792-7193
 SURVEYED BY: DATE Ryan, Dreelin, L.S., Rinker, Design Assoc., P.C. (703) 334-9302; July 3, 2017
 DESIGN BY: Mark, A. Gunn, P.E., Rinker, Design Assoc., P.C. (703) 334-9288
 SUBSURFACE UTILITY BY: DATE Accumark (703) 378-0100, August 1, 2017
 NOVA DISTRICT DESIGN UNIT
 5/3/2019

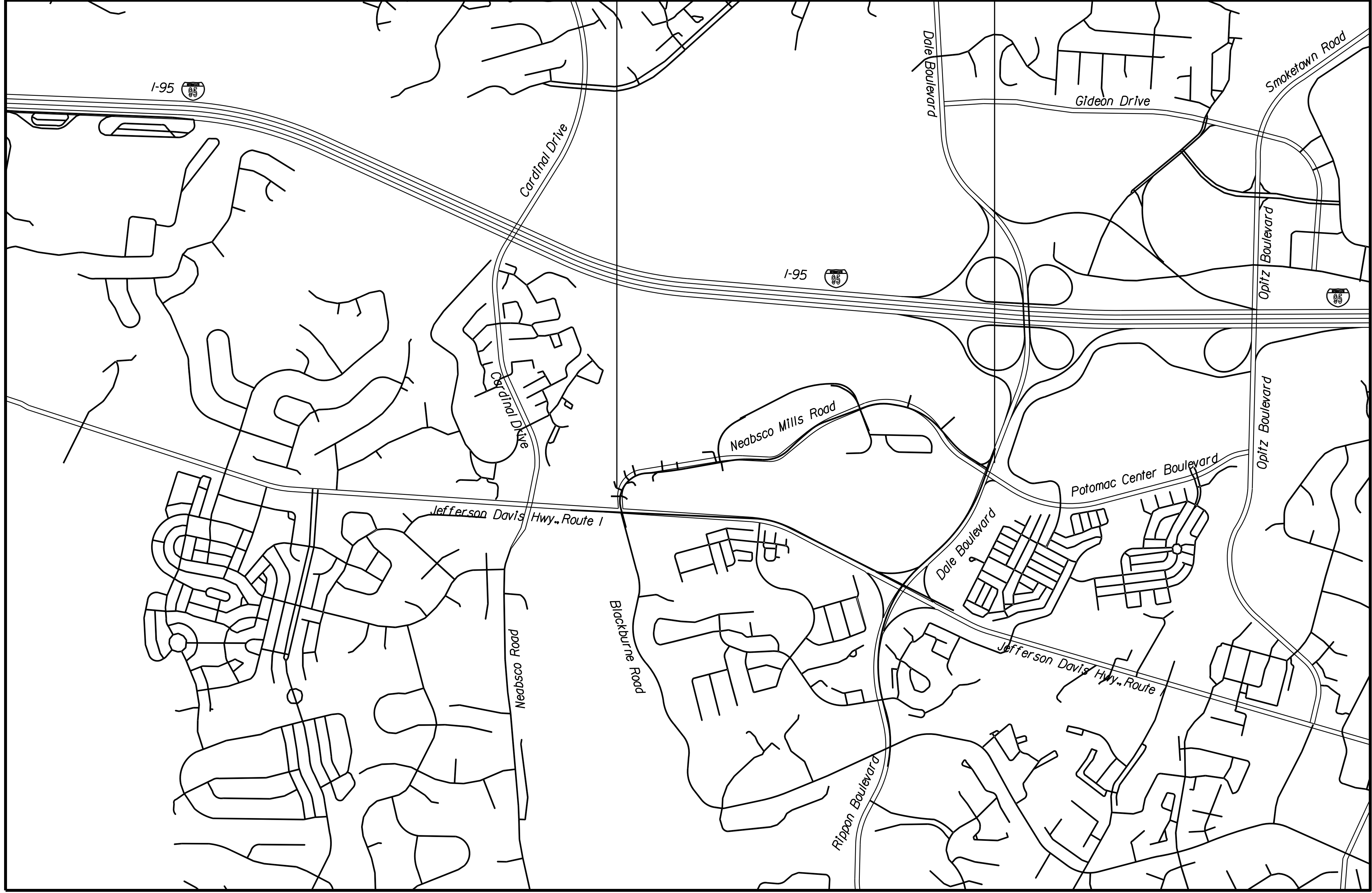
PROJECT MANAGER PWCDOT: Khattab, Shamout, P.E.: (703) 792-7193
SURVEYED BY, DATE RDA: Ryan Drealet, LS (703) 334-9302, July 3, 2017
DESIGN BY RDA: Mack, A. Gunn, P.E. (703) 334-9288
SUBSURFACE UTILITY BY, DATE Accurmark (703) 378-0100, August 1, 2017

Project Location Map

REVISED	STATE	ROUTE	STATE	VDOT PROJECT NO.	SHEET NO.
	VA.	638		0638-076-209 PE/01 CS/01 RW/201	1A

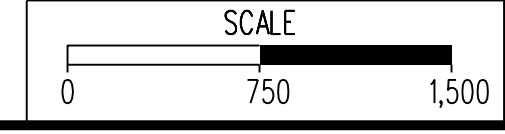
DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT

Project Limits: 0638-076-209, PE-101, C-501, RW-201
(UPC 107947)
(See Title Sheet for Section Info.)



NEABSCO MILLS ROAD WIDEN TO 4 LANES PROJECT LOCATION MAP

Prince William County, Virginia 1" = 750' Scale
Prince William County Population 468,011 (Est. 2018 Census)



VDOT PROJECT NO. 0638-076-209 PWCDOT PROJECT NO. SPR2018-00271	SHEET NO. 1A
---	-----------------

THESE PLANS ARE UNFINISHED AND UNAPPROVED AND ARE NOT TO BE USED FOR ANY TYPE OF CONSTRUCTION.

R/W PHASE PLANS

PROJECT MANAGER: EWCDOT - Khattab, Shammout, P.E. : (703) 792-7193
SURVEYED BY, DATE: RDA: Bryan Drea'la, L.S. : (703) 334-9302, July 3, 2017
DESIGN BY: RDA: Mack, Gunn, P.E. : (703) 334-9288
SUBSURFACE UTILITY BY, DATE: Accurack : (703) 378-0100, August 1, 2017

Project Index of Sheets

REVISED	STATE	ROUTE	STATE	VDOT PROJECT NO.	SHEET NO.
	VA.	638		0638-076-209 PE101 CS01 RW201	1B

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

INDEX OF SHEETS

SHEET NO.	DESCRIPTION OF SHEETS
PROJECT INDEX OF SHEETS	
VDOT Project No: 0638-076-209 PE101, PE-101, RW-201, C-501	
PWCDOT Project No: SPR2018-00271	

Sheet No. I	Title Sheet for Neabsco Mills Road Widen to 4 Lanes
Sheet No. IA	Project Location Map
Sheet No. IB	Project Index of Sheets
Sheet No. IC	Preliminary Right of Way Data
Sheet No. IC(1)	Demolition Summary
Sheet No. ID	Revision Data Sheet
Sheet No. IE	(Not Used) - Reserved for Hydrologic Data Sheet
Sheet No. IF	Survey Traverse Control
Sheet No. IF(1)	Survey Control Cards
Sheet No. IF(2)	Survey Drainage & Sanitary Sewer Descriptions
Sheet No. IG	Geometric Data Information
Sheet No. IG(1)	Geometric Data Information
Sheet No. IG(2)	Geometric Data Information
Sheet No. IH	Underground Utilities Test Hole Information
Sheet No. II	(Not Used)
Sheet No. IJ	Temporary Traffic Control General Notes
Sheet No. IJ(1)	Temporary Traffic Control Typical Sections
Sheet No. IK	Phase 1 TMP/SOC
Sheet No. IK(1)	Phase 1 TMP/SOC
Sheet No. IK(2)	Phase 1 TMP/SOC
Sheet No. IK(3)	Phase 1 TMP/SOC
Sheet No. IL	Phase 2 TMP/SOC
Sheet No. IL(1)	Phase 2 TMP/SOC
Sheet No. IL(2)	Phase 2 TMP/SOC
Sheet No. IL(3)	Phase 2 TMP/SOC
Sheet No. IM	Phase 3 TMP/SOC
Sheet No. IM(1)	Phase 3 TMP/SOC
Sheet No. IM(2)	Phase 3 TMP/SOC
Sheet No. IM(3)	Phase 3 TMP/SOC
Sheet No. IN	Phase 4 TMP/SOC
Sheet No. IN(1)	Phase 4 TMP/SOC
Sheet No. IN(2)	Phase 4 TMP/SOC
Sheet No. IN(3)	Phase 4 TMP/SOC
Sheet No. IO	(Not Used)
Sheet No. IP	Erosion Control Plan Narrative
Sheet No. IP(1)	Soils Identification Map
Sheet No. IQ(1)	(Not Used)
Sheet No. IQ(2)	(Not Used)
Sheet No. IQ(3)	Erosion and Sediment Control Phase 1
Sheet No. IQ(4)	Erosion and Sediment Control Phase 1
Sheet No. IQ(5)	Erosion and Sediment Control Phase 1
Sheet No. IQ(6)	Erosion and Sediment Control Phase 1
Sheet No. IQ(7)	Erosion and Sediment Control Phase 1
Sheet No. IQ(8)	Erosion and Sediment Control Phase 1
Sheet No. IQ(9)	Erosion and Sediment Control Phase 1
Sheet No. IQ(10)	Erosion and Sediment Control Phase 1
Sheet No. IR(1)	(Not Used)
Sheet No. IR(2)	(Not Used)
Sheet No. IR(3)	Erosion and Sediment Control Phase 2
Sheet No. IR(4)	Erosion and Sediment Control Phase 2
Sheet No. IR(5)	Erosion and Sediment Control Phase 2
Sheet No. IR(6)	Erosion and Sediment Control Phase 2
Sheet No. IR(7)	Erosion and Sediment Control Phase 2
Sheet No. IR(8)	Erosion and Sediment Control Phase 2
Sheet No. IR(9)	Erosion and Sediment Control Phase 2
Sheet No. IR(10)	Erosion and Sediment Control Phase 2
Sheet No. IS	Sediment Basin Computations
Sheet No. IT	(Not Used)
Sheet No. IU	(Not Used)
Sheet No. IV	(Not Used)
Sheet No. 2	VDOT General Notes
Sheet No. 2A	Typical Sections
Sheet No. 2A(1)	Typical Sections
Sheet No. 2A(2)	Typical Sections
Sheet No. 2A(3)	Typical Sections
Sheet No. 2A(4)	Typical Sections
Sheet No. 2A(5)	Typical Sections

INDEX OF SHEETS CONTINUED ...

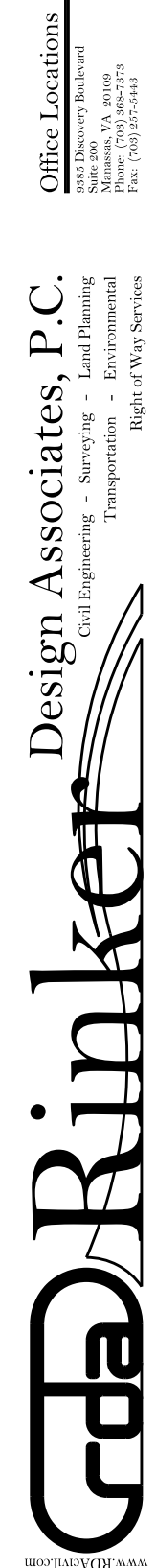
Sheet No. 2B	Typical Sections
Sheet No. 2B(1)	Typical Sections
Sheet No. 2B(2)	Typical Sections
Sheet No. 2C	Geotechnical Recommendations
Sheet No. 2D	Roadside Development Sheet
Sheet No. 2E	Radial Offset/Bullet Nose Data Summary
Sheet No. 2F	Curb Return Profiles
Sheet No. 2F(1)	Curb Return Profiles
Sheet No. 2F(2)	Curb Return Profiles
Sheet No. 2F(3)	Curb Return Profiles
Sheet No. 2F(4)	Curb Return Profiles
Sheet No. 2F(5)	Curb Return Profiles
Sheet No. 2G	CG-12 Details
Sheet No. 2G(1)	CG-12 Details
Sheet No. 2G(2)	CG-12 Details
Sheet No. 2H	(Not Used)
Sheet No. 2I	(Not Used)
Sheet No. 2J	Ditch Typical
Sheet No. 2K	Drainage Descriptions
Sheet No. 2K(1)	Drainage Descriptions
Sheet No. 2K(2)	Drainage Descriptions
Sheet No. 2L	Drainage Profiles
Sheet No. 2L(1)	Drainage Profiles
Sheet No. 2L(2)	Drainage Profiles
Sheet No. 2L(3)	Drainage Profiles
Sheet No. 2L(4)	Drainage Profiles
Sheet No. 2L(5)	Drainage Profiles
Sheet No. 2L(6)	Drainage Profiles
Sheet No. 2L(7)	Drainage Profiles
Sheet No. 2M	Koons SWM Detail
Sheet No. 2M(1)	SWM Pond 5-1
Sheet No. 2M(2)	SWM Pond 5-1 Detail
Sheet No. 2M(3)	SWM Pond 5-1 Detail
Sheet No. 2N	Stormwater Pollution Prevention Plan (SWPPP) General Information Sheet
Sheet No. 2N(1)	Stormwater Pollution Prevention Plan (SWPPP) General Information Sheet
Sheet No. 2N(2)	Stormwater Pollution Prevention Plan (SWPPP) General Information Sheet
Sheet No. 2O	(Not Used)
Sheet No. 3	Plan (Sta.10+75 to 17+75)
Sheet No. 3(1)	Prop.R/W and Survey Boundary Info.
Sheet No. 3A	Profile (Sta.10+00 to 17+75)
Sheet No. 3B	Entrance Profiles (Sta.10+75 to 17+75)
Sheet No. 3C	Entrance Profiles (Sta.10+75 to 17+75)
Sheet No. 4	Plan (Sta.17+75 to 24+75)
Sheet No. 4(1)	Prop.R/W and Survey Boundary Info.
Sheet No. 4A	Profile (Sta.17+75 to 24+75)
Sheet No. 4B	Entrance Profiles (Sta.17+75 to 24+75)
Sheet No. 5	Plan (Sta.24+75 to 31+75)
Sheet No. 5(1)	Prop.R/W and Survey Boundary Info.
Sheet No. 5A	Profile (Sta.24+75 to 31+75)
Sheet No. 5B	Entrance Profiles (Sta.24+75 to 31+75)
Sheet No. 6	Plan (Sta.31+75 to 38+75)
Sheet No. 6(1)	Prop.R/W and Survey Boundary Info.
Sheet No. 6A	Profile (Sta.31+75 to 38+75)
Sheet No. 7	Plan (Sta.38+75 to 45+75)
Sheet No. 7(1)	Prop.R/W and Survey Boundary Info.
Sheet No. 7A	Profile (Sta.38+75 to 45+75)
Sheet No. 8	Plan (Sta.45+75 to 52+75)
Sheet No. 8(1)	Prop.R/W and Survey Boundary Info.
Sheet No. 8A	Profile (Sta.45+75 to 52+75)
Sheet No. 8B	Entrance Profiles (Sta.45+75 to 52+75)
Sheet No. 9	Plan (Sta.52+75 to 59+75)
Sheet No. 9(1)	Prop.R/W and Survey Boundary Info.
Sheet No. 9A	Profile (Sta.52+75 to 59+75)
Sheet No. 10	Plan (Sta.59+75 to 66+75)
Sheet No. 10A	Profile (Sta.59+75 to 66+75)
Sheet No. II	(Not Used)
Sheet No. 12(1)	(Not Used)
Sheet No. 12(2)	(Not Used)
Sheet No. 12(3)	Pavement Markings Plan (Sta.10+00 to 17+75)
Sheet No. 12(4)	Pavement Markings Plan (Sta.17+75 to 24+75)
Sheet No. 12(5)	Pavement Markings Plan (Sta.24+75 to 31+75)
Sheet No. 12(6)	Pavement Markings Plan (Sta.31+75 to 38+75)
Sheet No. 12(7)	Pavement Markings Plan (Sta.38+75 to 45+75)

INDEX OF SHEETS CONTINUED ...

Sheet No. 12(8)	Pavement Markings Plan (Sta.45+75 to 52+75)
Sheet No. 12(9)	Pavement Markings Plan (Sta.52+75 to 59+75)
Sheet No. 13(1)	(Not Used)
Sheet No. 13(2)	(Not Used)
Sheet No. 13(3)	Stagnage Plan (Sta.10+00 to 17+75)
Sheet No. 13(4)	Stagnage Plan (Sta.17+75 to 24+75)
Sheet No. 13(5)	Stagnage Plan (Sta.24+75 to 31+75)
Sheet No. 13(6)	Stagnage Plan (Sta.31+75 to 38+75)
Sheet No. 13(7)	Stagnage Plan (Sta.38+75 to 45+75)
Sheet No. 13(8)	Stagnage Plan (Sta.38+75 to 45+75)
Sheet No. 13(9)	Stagnage Plan (Sta.52+75 to 59+75)
Sheet No. 13(10)	Stagnage Plan (Sta.59+75 to 67+25)
Sheet No. 14	Traffic Signal General Notes
Sheet No. 14(1)	Traffic Signal Plans
Sheet No. 14(2)	Traffic Signal Plans
Sheet No. 15	Conduit for Roadway Lighting Plan Index of Sheets and General Notes
Sheet No. 15(1)	(Not Used)
Sheet No. 15(2)	(Not Used)
Sheet No. 15(3)	Conduit Plan for PWC Lighting (Sta.10+00 to 17+75)
Sheet No. 15(4)	Conduit Plan for PWC Lighting (Sta.17+75 to 24+75)
Sheet No. 15(5)	Conduit Plan for PWC Lighting (Sta.24+75 to 31+75)
Sheet No. 15(6)	Conduit Plan for PWC Lighting (Sta.45+75 to 52+75)
Sheet No. 16(1)	(Not Used)
Sheet No. 16(2)	(Not Used)
Sheet No. 16(3)	Utility Relocation Plan (Sta.10+00 to 17+75)
Sheet No. 16(4)	Utility Relocation Plan (Sta.17+75 to 24+75)
Sheet No. 16(5)	Utility Relocation Plan (Sta.24+75 to 31+75)
Sheet No. 16(6)	Utility Relocation Plan (Sta.31+75 to 38+75)
Sheet No. 16(7)	Utility Relocation Plan (Sta.38+75 to 45+75)
Sheet No. 16(8)	Utility Relocation Plan (Sta.45+75 to 52+75)
Sheet No. 16(9)	Utility Relocation Plan (Sta.52+75 to 59+75)
Sheet No. 16(10)	Utility Relocation Plan (Sta.59+75 to 67+25)
Sheet No. 17 thru 19	(Not Used)
Sheet No.*** 20	Waterline and Sanitary Sewer Relocation Title Sheet and Index of Sheets
Sheet No.*** 20(1)	Waterline and Sanitary Sewer Relocation Plan General Notes
Sheet No.*** 20(1A)	PWCSA Detail Sheets
Sheet No.*** 20(1B)	PWCSA Detail Sheets
Sheet No.*** 20(1C)	PWCSA Detail Sheets
Sheet No.*** 20(2)	Waterline and Sanitary Sewer Relocation Plan and Profile
Sheet No.*** 20(2A)	Waterline and Sanitary Sewer Relocation Plan and Profile
Sheet No.*** 20(3)	Waterline and Sanitary Sewer Relocation Plan and Profile
Sheet No.*** 20(4)	Waterline and Sanitary Sewer Relocation Plan and Profile

CROSS SECTIONS	
Sheet No. 1	Cross Sections Project Index of Sheets
Sheet No. 2 thru 68	Neabsco Mills Road
Sheet No. 69	Church Entrance
Sheet No. 70	College Drive S
Sheet No. 71	College Drive N
Sheet No. 72	Freedom High School Entrance

INDEX PLAN SET NOTES:	
150 Total plan and profile sheets as part of this submission package.	
72 Total cross section sheets	
*** Sheets not included in this set	



PROJECT MANAGER PWCDOT - Khattab, Shammaul, P.E. : (703) 792-7193
SURVEYED BY, DATE RDA: Ryan Dreel / LS (703) 334-9302, July 3, 2017
DESIGN BY RDA: Mack, Gunn, P.E. (703) 334-9288
SUBSURFACE UTILITY BY, DATE Accurack (703) 378-0100, August 1, 2017

Preliminary Right of Way Data Sheet

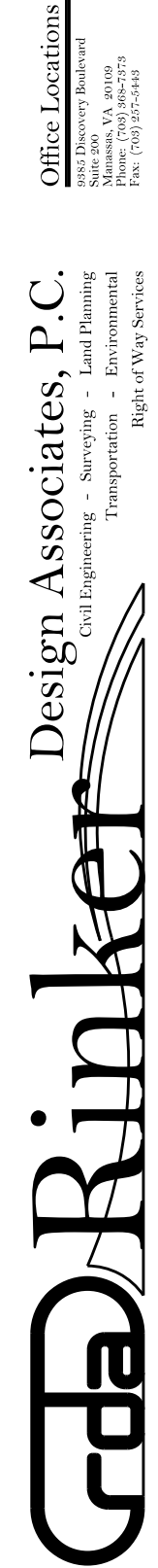
NOTE: All data shown here is for information and estimating purposes only. VDOT Proj. 0638-076-209, RW-201 is a locally administered project by PWCDOT and Final Acquisition Plats are required and shall be provided by a professional surveyor.

REVISED	STATE	ROUTE	STATE VDOT PROJECT NO.	SHEET NO.
	VA.	638	0638-076-209 PE/01 CS/01 RW201	IC101

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: Prince William County, Virginia
UPC No.: 107947

PROJECT ASSIGNED PARCEL NO.	LANDOWNER	PLAN SHEET NO.	AREA														PROFFERS YES / NO	REMARKS PRINCE WILLIAM CO. G.P./N. NO.				
			TOTAL ACRES	FEE TAKING SQ.FT.	PRESCRIPTIVE R/W SQ.FT.	FEE REMAINDER ACRES	EASEMENTS												TEMPORARY CONSTRUCTION			
							PERM. DRAINAGE SQ.FT.	PERM. SIGHT DIST SQ.FT.	PERM. RET. WALL SQ.FT.	PERM. DE AND VERIZON SQ.FT.	PERM. SIGNAL SQ.FT.	PERM. VERIZON SQ.FT.	PERM. DOMINION ENERGY SQ.FT.	PERM. WATER SQ.FT.	PERM. SAN. SEW. SQ.FT.	MISC.			ENTRANCE	SLOPES		
																SQ.FT.			SQ.FT.	SQ.FT.		
001	PMG NORTHERN VIRGINIA, LLC	3	0.5852 Ac.	167	-	0.5814 Ac.	-	-	-	-	-	-	-	157	-	-	-	-	861	1,500	NO	8290-88-5113
002	UNKNOWN OWNERSHIP	3	0.0133 Ac.	-	-	0.0133 Ac.	-	-	-	-	-	-	-	-	-	-	-	-	229	14	NO	No Tax Map No.
003	BAHMER FAMILY PARCEL LLC	3	0.6643 Ac.	-	-	0.6643 Ac.	-	-	-	-	-	-	-	-	-	-	-	-	82	-	NO	8290-88-3309
004	RICHARD M. & JANET M. BAHMER, DOUGLAS S. & KATHRYN B. MULLEN, AND BRIAN LEE & SUSAN B. CYRE	3	0.6363 Ac.	-	-	0.6363 Ac.	-	-	-	-	-	-	-	-	-	-	-	-	1,974	1,254	NO	8290-88-2430
005	SEETARAM & SANDRA RAMAWAD AND AMAD ABDOL	3	0.5471 Ac.	-	-	0.5471 Ac.	-	-	-	-	-	-	-	-	-	-	-	-	999	94	NO	8290-88-1540
006	SEETARAM & SANDRA RAMAWAD	3,4	0.5000 Ac.	2,333	-	0.4464 Ac.	-	-	-	1,071	-	-	-	-	-	-	-	-	1,445	1,478	NO	8290-88-1752
007	GHOLAM H. RAMINPOUR	3	0.6831 Ac.	301	-	0.6762 Ac.	653	837	176	-	-	-	-	69	205	-	-	-	509	682	YES	8290-88-5838
008	GHOLAM (AKA GHOLAM) HOSSIEIN RAMINPOUR	3,4	3,1372 Ac.	4,025	-	3,0448 Ac.	2,897	4,475	1,848	-	-	-	-	371	-	2,241	3,314	6,040	-	-	NO	8290-88-5562
009	JOHN R. WARD, DONALD W. WARD, MICHELLE R. WARD AND CHRISTINE W. WARD	4	0.4339 Ac.	567	-	0.4209 Ac.	-	-	-	1,068	-	-	-	-	-	-	-	-	228	1,325	NO	8290-88-1762
010	15512 NEABSCO MILLS LLC	4	0.6569 Ac.	2,757	-	0.5936 Ac.	-	-	-	1,136	-	-	-	-	-	-	-	-	-	1,767	NO	8290-88-1874
011	15512 NEABSCO MILLS LLC	4	1,0285 Ac.	896	-	1,0079 Ac.	468	-	-	6,215	-	-	-	-	-	-	-	-	3,283	2,712	NO	8290-88-1992
012	SCOTT MCCORKINDALE	4	0.9049 Ac.	87	-	0.9029 Ac.	1,213	-	-	5,467	-	-	-	-	-	-	-	-	5,467	1,885	NO	8290-89-1708
013	COMMONWEALTH OF VIRGINIA, STATE BOARD FOR COMMUNITY COLLEGES	4,5	20,5640 Ac.	29,799	-	19,8799 Ac.	2,475	-	-	3,829	-	-	-	-	-	-	-	-	-	4,860	NO	8290-79-9119
014	HARVEST LIFE CHANGERS CHURCH INTERNATIONAL INC.	4,5,6	15,4877 Ac.	6,188	-	15,3456 Ac.	4,180	-	-	-	-	-	-	-	-	-	-	-	2,478	7,436	NO	8290-89-7339
015	COMMONWEALTH OF VIRGINIA, STATE BOARD FOR COMMUNITY COLLEGES	5,6	20,5640 Ac.	15,291	-	20,2130 Ac.	1,202	-	-	11,545	-	-	-	-	-	-	-	-	-	12,085	NO	8290-79-9119
016	COMMONWEALTH OF VIRGINIA, STATE BOARD FOR COMMUNITY COLLEGES	6,7	11,634 Ac.	3,802	-	1,0761 Ac.	137	-	-	3,601	-	-	-	-	-	-	-	-	-	1,938	NO	8291-80-3245
017	PRINCE WILLIAM COUNTY SCHOOL BOARD	6,7,8,9,10	76,9897 Ac.	1,551	-	76,9541 Ac.	-	-	-	2,237	-	-	-	-	-	-	-	-	1,450	5,326	NO	8291-91-2128
018	COMMONWEALTH OF VIRGINIA, STATE BOARD FOR COMMUNITY COLLEGES	7	0.5053 Ac.	4,417	-	0.4039 Ac.	-	-	-	2,834	-	-	-	-	-	-	-	-	-	1,818	NO	8291-80-4461
019	COMMONWEALTH OF VIRGINIA, STATE BOARD FOR COMMUNITY COLLEGES	7	1,0000 Ac.	5,080	-	0.8834 Ac.	-	-	-	3,115	-	-	-	-	-	-	-	-	-	2,407	NO	8291-80-3164
020	COMMONWEALTH OF VIRGINIA, STATE BOARD FOR COMMUNITY COLLEGES	7	0.4948 Ac.	7,304	-	0.3271 Ac.	-	-	-	3,317	-	-	-	-	-	-	-	-	-	2,358	NO	8291-80-3781
021	COMMONWEALTH OF VIRGINIA, STATE BOARD FOR COMMUNITY COLLEGES	7	0.7900 Ac.	4,100	-	0.6959 Ac.	-	-	-	2,420	-	-	-	-	-	-	-	-	-	1,495	NO	8291-80-2688
022	COMMONWEALTH OF VIRGINIA, STATE BOARD FOR COMMUNITY COLLEGES	7,8	1,5000 Ac.	14,789	-	1,1605 Ac.	-	-	-	-	-	219	4,589	-	-	-	-	-	-	12,840	NO	8291-81-2418
023	COMMONWEALTH OF VIRGINIA, STATE BOARD FOR COMMUNITY COLLEGES	8,9	105,6623 Ac.	4,699	-	105,5544 Ac.	-	-	-	1,391	-	-	4,429	-	-	-	-	-	-	7,808	NO	8290-79-1083
024	ALBERT J. WILLIAMS	9	1,0001 Ac.	-	-	1,0001 Ac.	-	-	-	-	-	-	-	-	-	-	-	-	-	2,772	NO	8291-82-2414
025	UNKNOWN OWNERSHIP	3	0,1141 Ac.	-	-	0,1141 Ac.	-	-	-	-	-	-	-	-	-	-	-	-	1,556	348	NO	No Tax Map No.
TOTAL	PROJECT TOTALS			108,153	-		13,225	5,312	2,024	45,618	3,628	219	9,475	440	205	2,241	23,875	82,242				



PROJECT MANAGER: EWCDOT - Khattab, Shammout, P.E. (703) 792-7193
 SURVEYED BY, DATE: RDA: Bryan Dreel / LS (703) 334-9302, July 3, 2017
 DESIGN BY: RDA: Mack & Gunn, P.E. (703) 334-9288
 SUBSURFACE UTILITY BY, DATE: Accurmark (703) 378-0100, August 1, 2017

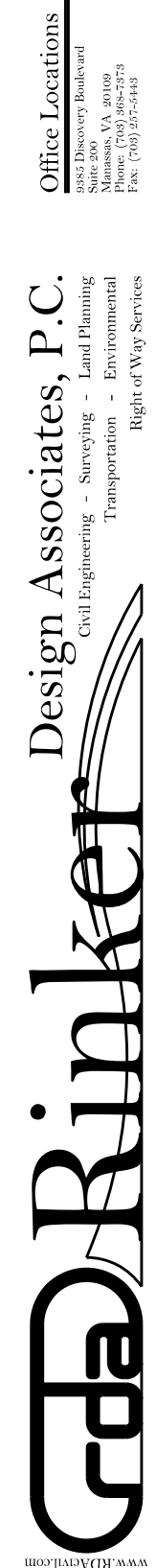
REVISED	STATE	ROUTE	STATE	VDOT PROJECT NO.	SHEET NO.
	VA.	638		0638-076-209 PE101 CS01 RW201	1C(1)

Demolition Summary

DEMOLITION OF BUILDING / CLEARING OF PARCEL / CLOSING WELL / UNDERGROUND STORAGE TANK REMOVAL SUMMARY

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

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 BRIDGES	DEMOLITION OF BUILDINGS	CLEARING OF PARCEL	DEMOLITION OF SIGN	CLOSING WELL	UNDERGROUND STORAGE TANK REMOVAL							
						LUMP SUM	LUMP SUM	LUMP SUM	LUMP SUM	EACH	TYPE A EACH		TYPE B EACH					
3	001	D-911	PMG NORTHERN VIRGINIA, LLC	14+00 52' LT	Light Pole													
3	001	D-912	PMG NORTHERN VIRGINIA, LLC	14+40 54' LT	Light Pole													
3	008	D-901	GHOLAN (AKA GHOLAM) HOSSIEEN RAMINPOUR	15+10 46' RT	Light Pole	-	-	-	-	-	-	-	-	-	-	-	-	-
3	008	D-902	GHOLAN (AKA GHOLAM) HOSSIEEN RAMINPOUR	15+53 51' RT	Light Pole	-	-	-	-	-	-	-	-	-	-	-	-	-
3	008	D-903	GHOLAN (AKA GHOLAM) HOSSIEEN RAMINPOUR	15+96 55' RT	Light Pole	-	-	-	-	-	-	-	-	-	-	-	-	-
3	008	D-904	GHOLAN (AKA GHOLAM) HOSSIEEN RAMINPOUR	16+39 60' RT	Light Pole	-	-	-	-	-	-	-	-	-	-	-	-	-
3	008	D-1	GHOLAN (AKA GHOLAM) HOSSIEEN RAMINPOUR	16+71 53' RT	Business Sign	-	-	-	1	-	-	-	-	-	-	-	-	-
3	008	D-905	GHOLAN (AKA GHOLAM) HOSSIEEN RAMINPOUR	16+87 65' RT	Light Pole	-	-	-	-	-	-	-	-	-	-	-	-	-
3	005	D-2	SEETARAM & SANDRA RAMAWAD AND AMAD ABDOL	16+91 45' LT	Business Sign	-	-	-	1	-	-	-	-	-	-	-	-	-
3	008	D-3	GHOLAN (AKA GHOLAM) HOSSIEEN RAMINPOUR	17+16 59' RT	Sign	-	-	-	1	-	-	-	-	-	-	-	-	-
3	006	D-906	SEETARAM & SANDRA RAMAWAD	17+29 22' LT	Mailbox	-	-	-	-	-	-	-	-	-	-	-	-	-
4	008	D-4	GHOLAN (AKA GHOLAM) HOSSIEEN RAMINPOUR	19+17 59' RT	Business Sign	-	-	-	1	-	-	-	-	-	-	-	-	-
4	008	D-907	GHOLAN (AKA GHOLAM) HOSSIEEN RAMINPOUR	20+40 59' RT	Light Pole	-	-	-	-	-	-	-	-	-	-	-	-	-
4	011	D-908	15512 NEABSBSO MILLS LLC	21+06 40' LT	Mailbox	-	-	-	-	-	-	-	-	-	-	-	-	-
4	012	D-5	SCOTT MCCORKINDALE	23+10 34' LT	Business Sign	-	-	-	1	-	-	-	-	-	-	-	-	-
4	012	D-909	SCOTT MCCORKINDALE	24+02 34' LT	Mailbox	-	-	-	-	-	-	-	-	-	-	-	-	-
8	017	D-6	PRINCE WILLIAM COUNTY SCHOOL BOARD	49+56 85' RT	Sign	-	-	-	1	-	-	-	-	-	-	-	-	-
9	024	D-910	ALBERT J. WILLIAMS	53+31 41' LT	Mailbox	-	-	-	-	-	-	-	-	-	-	-	-	-



PROJECT MANAGER PWCDOT: Khattab, Shammaout, P.E. (703) 792-7193
SURVEYED BY, DATE RDA: Ryan Dreehn, LS (703) 334-9302, July 3, 2017
DESIGN BY RDA: Mack, Gunn, P.E. (703) 334-9288
SUBSURFACE UTILITY BY, DATE Accurack (703) 378-9100, August 1, 2017

Survey Traverse Control

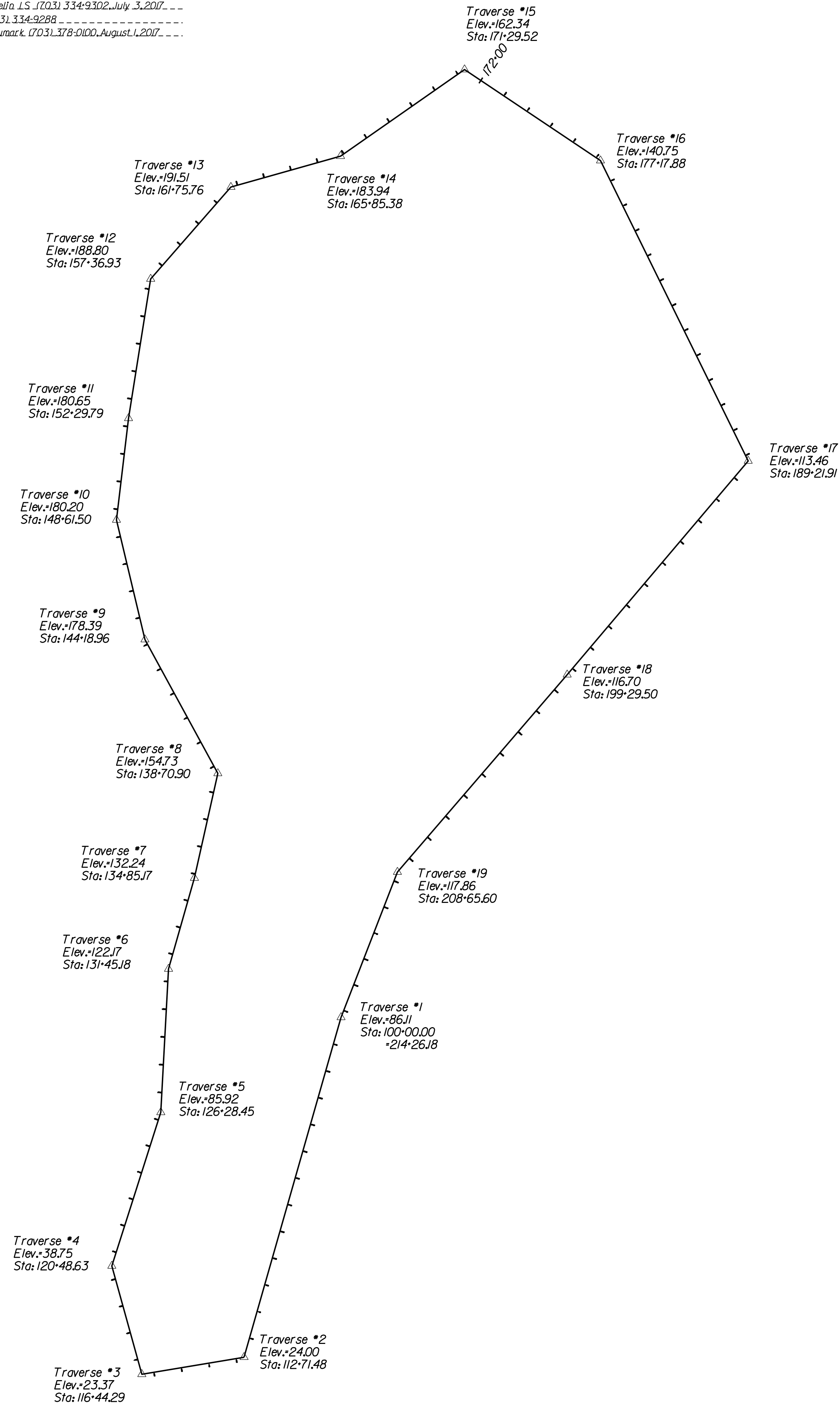
REVISED	STATE	ROUTE	STATE	VDOT PROJECT NO.	SHEET NO.
	VA.	638		0638-076-209 PE101 CS01 RW201	1F

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

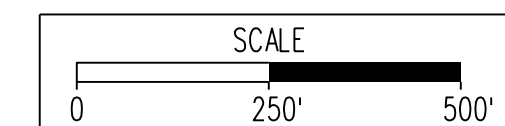
Rinker Design Assoc., P.C.
Fredericksburg, Virginia
(Roadway)

SURVEY ALIGNMENT

Traverse	Bearing	Distance	Northing (Y)	Easting (X)	Elevation (Z)	Station
1			6909554.80	11829094.09	86.11	100+00.00
2	S 15°55'33.8759" W	1271.48	6908332.12	11828745.20	24.00	112+71.48
3	S 80°31'20.5220" W	372.81	6908270.73	11828377.48	23.37	116+44.29
4	N 15°28'20.5494" W	404.35	6908660.43	11828269.61	38.75	120+48.63
5	N 17°41'42.1049" E	579.82	6909212.81	11828445.84	85.92	126+28.45
6	N 03°05'07.0384" E	516.73	6909728.79	11828473.65	122.17	131+45.18
7	N 15°52'55.6030" E	339.99	6910055.80	11828566.69	132.24	134+85.17
8	N 12°37'38.8023" E	385.73	6910432.20	11828651.02	154.73	138+70.90
9	N 28°34'53.6647" W	548.06	6910913.48	11828388.82	178.39	144+18.96
10	N 13°24'22.3799" W	442.54	6911343.96	11828286.22	180.20	148+61.50
11	N 06°47'10.4670" E	368.29	6911709.67	11828329.74	180.65	152+29.79
12	N 09°02'02.2884" E	507.14	6912210.52	11828409.37	188.80	157+36.93
13	N 41°07'16.5300" E	438.83	6912541.10	11828697.97	191.51	161+75.76
14	N 7°41'16.1280" E	409.61	6912652.37	11829092.18	183.94	165+85.38
15	N 55°04'55.5757" E	544.15	6912963.84	11829538.37	162.34	171+29.52
16	S 56°10'32.1649" E	588.36	6912636.33	11830027.14	140.75	177+17.88
17	S 26°11'34.9737" E	1204.03	6911555.94	11830558.60	113.46	189+21.91
18	S 40°15'41.7554" W	1007.59	6910787.05	11829907.41	116.70	199+29.50
19	S 40°42'07.0197" W	936.10	6910077.38	11829296.96	117.86	208+65.60
1	S 21°13'01.010" W	560.58	6909554.80	11829094.09	86.11	214+26.18



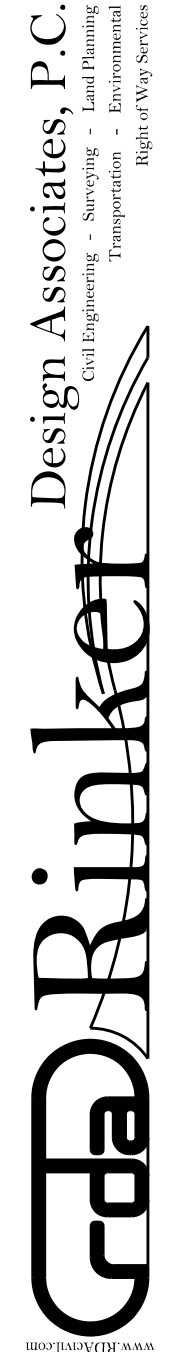
Route : Neadsco Mills Road
Project : 0638-076-209, PE101, RW201, CS01
District : NOVA
County : Prince William
From : Jefferson Davis Hwy. (US Rte. 1)
To : Smoke Ct. (Rte. 1282)
Horizontal Datum : Based On VA North 1983.
Vertical Datum : Based On NAVD 1988
Survey By : Ryan Dreehn, LS
Operator : Travis Dreehn
Date : 03 - 08 - 2017
Scale : 1" = 25'
UPC# : 107947



VDOT PROJECT NO. 0638-076-209 PWCDOT PROJECT NO. SPR2018-00271	SHEET NO. 1F
---	-----------------

THESE PLANS ARE UNFINISHED AND UNAPPROVED AND ARE NOT TO BE USED FOR ANY TYPE OF CONSTRUCTION.

R/W PHASE PLANS



PROJECT MANAGER: EWCDOT - Khattab, Shammaul, P.E. : (703) 792-7193
SURVEYED BY, DATE: RDA: Ryan Dreehn, LS (703) 334-9302, July 3, 2017
DESIGN BY: RDA: Mack, Gunn, P.E. (703) 334-9288
SUBSURFACE UTILITY BY, DATE: Accurack (703) 378-0100, August 1, 2017

Survey Control Cards

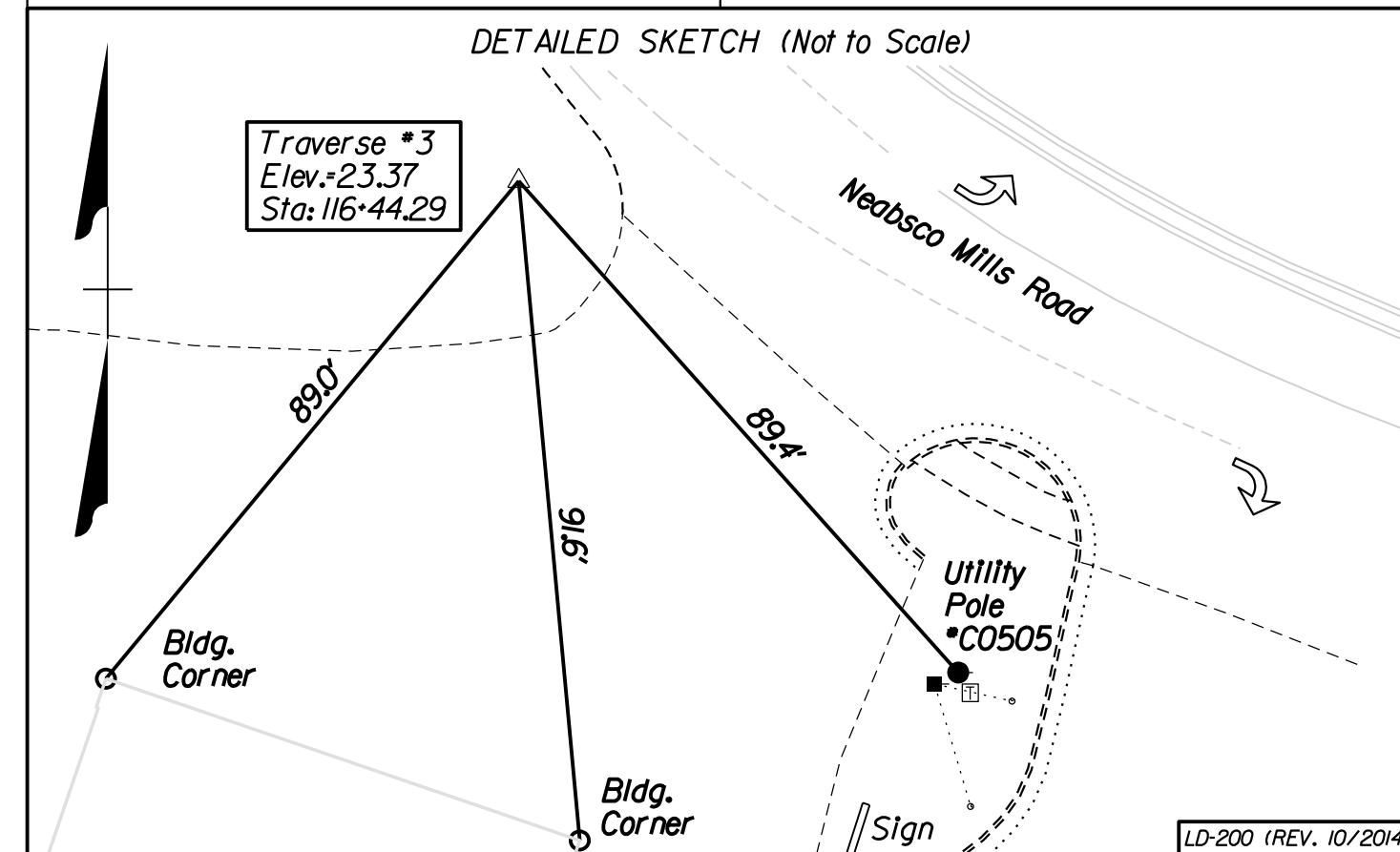
REVISED	STATE	ROUTE	STATE	VDOT PROJECT NO.	SHEET NO.
	VA.	638		0638-076-209 PE101 CS01 RW201	IF(1)

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
(Roadway)

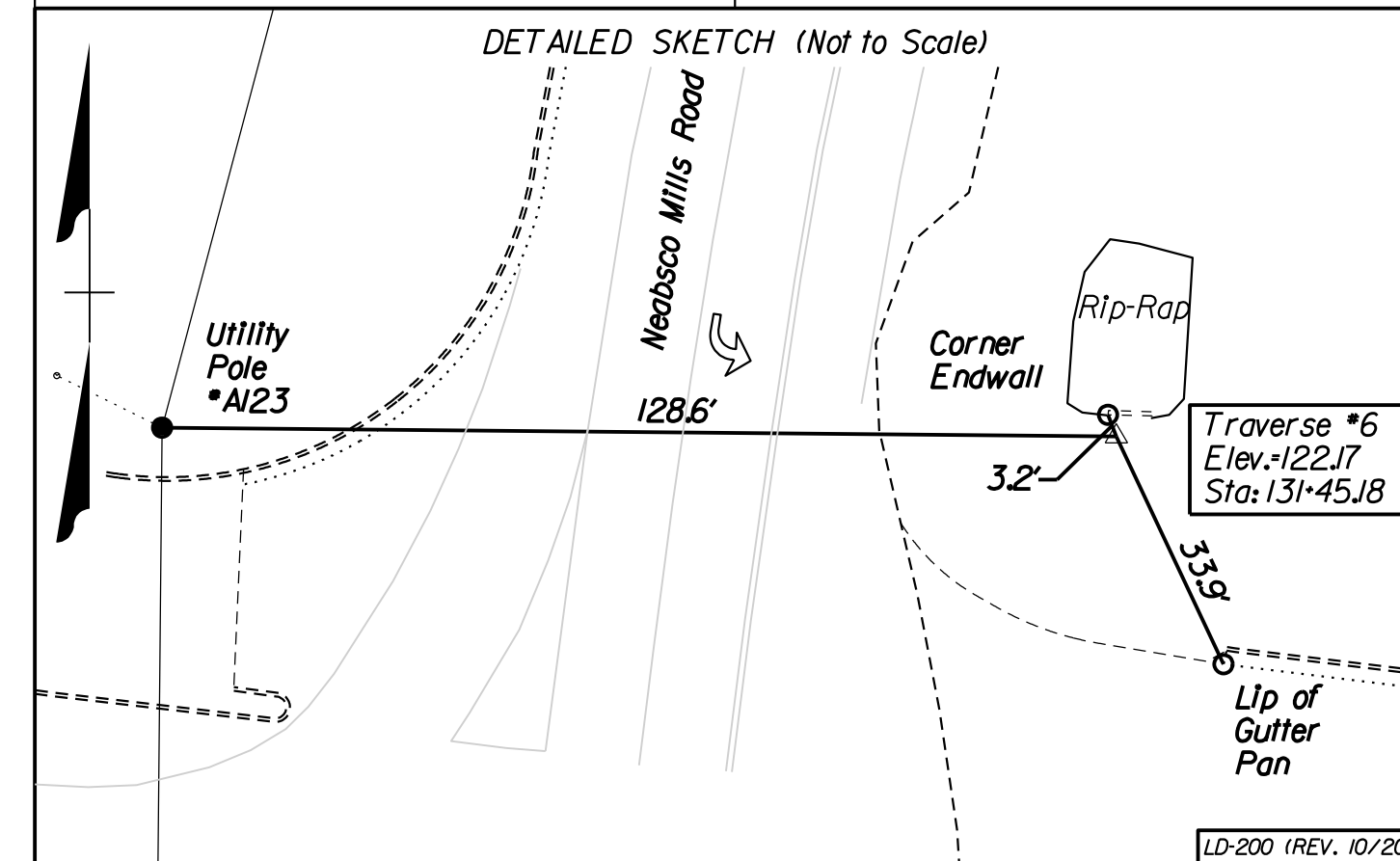
LD-200 (REV. 10/2014) Virginia Department of Transportation Horizontal Control
Control Station I.D. : 3 Date : 06-26-17

VDOT Project Coordinates (2014) East (X) : 11,828,377.48 ft. North (Y) : 6,908,270.73 ft. Elevation : 23.37 ft.	VA State Plane Coordinates : NAD 83 - U.S. Survey Feet East (X) : _____ ft. North (Y) : _____ ft. Ortho. Elevation (H) : _____ ft. Zone : North _____ South _____ (place an "X" beside one)
Project Specific Combined Scale Factor: 1. _____ (9 Decimal Places)	Project Information Project Number : _____ Route : 638 City/County : Prince William Established By : Rinker Design Associates, P.C.
Latitude : _____ N (5 Decimal Places) Longitude : _____ W (5 Decimal Places) Geoid Separation (N) : _____ Ellipsoid Height (h) : _____ Horizontal Datum : _____ Year : _____ Vertical Datum : _____ Geoid : _____ Azimuth to Station : _____ Is _____ Control Based On: Station (Name/PID) _____ or Project (Monument No.) : _____	To convert Virginia State Plane Coordinates to VDOT Project Coordinates, use the following formula : • Multiply the Easting And Northing Values (For Both Zones) by the Project Specific Combined Scale Factor. (Located above left) • Reverse this Procedure to convert VDOT Project Coordinates (2014) to NAD 83 - U.S. Survey Feet



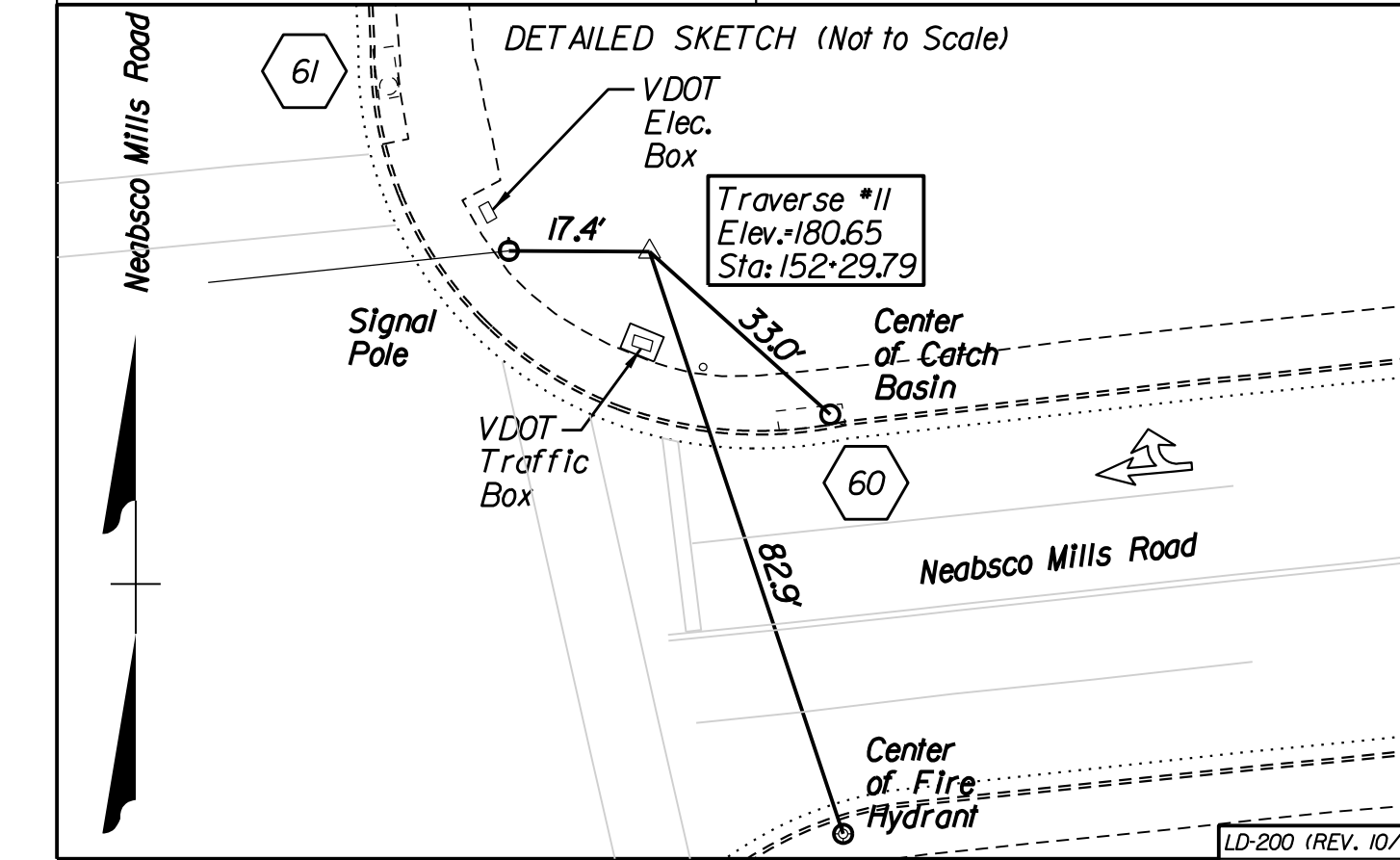
LD-200 (REV. 10/2014) Virginia Department of Transportation Horizontal Control
Control Station I.D. : 6 Date : 06-26-17

VDOT Project Coordinates (2014) East (X) : 11,828,473.65 ft. North (Y) : 6,909,728.79 ft. Elevation : 122.17 ft.	VA State Plane Coordinates : NAD 83 - U.S. Survey Feet East (X) : _____ ft. North (Y) : _____ ft. Ortho. Elevation (H) : _____ ft. Zone : North _____ South _____ (place an "X" beside one)
Project Specific Combined Scale Factor: 1. _____ (9 Decimal Places)	Project Information Project Number : _____ Route : 638 City/County : Prince William Established By : Rinker Design Associates, P.C.
Latitude : _____ N (5 Decimal Places) Longitude : _____ W (5 Decimal Places) Geoid Separation (N) : _____ Ellipsoid Height (h) : _____ Horizontal Datum : _____ Year : _____ Vertical Datum : _____ Geoid : _____ Azimuth to Station : _____ Is _____ Control Based On: Station (Name/PID) _____ or Project (Monument No.) : _____	To convert Virginia State Plane Coordinates to VDOT Project Coordinates, use the following formula : • Multiply the Easting And Northing Values (For Both Zones) by the Project Specific Combined Scale Factor. (Located above left) • Reverse this Procedure to convert VDOT Project Coordinates (2014) to NAD 83 - U.S. Survey Feet



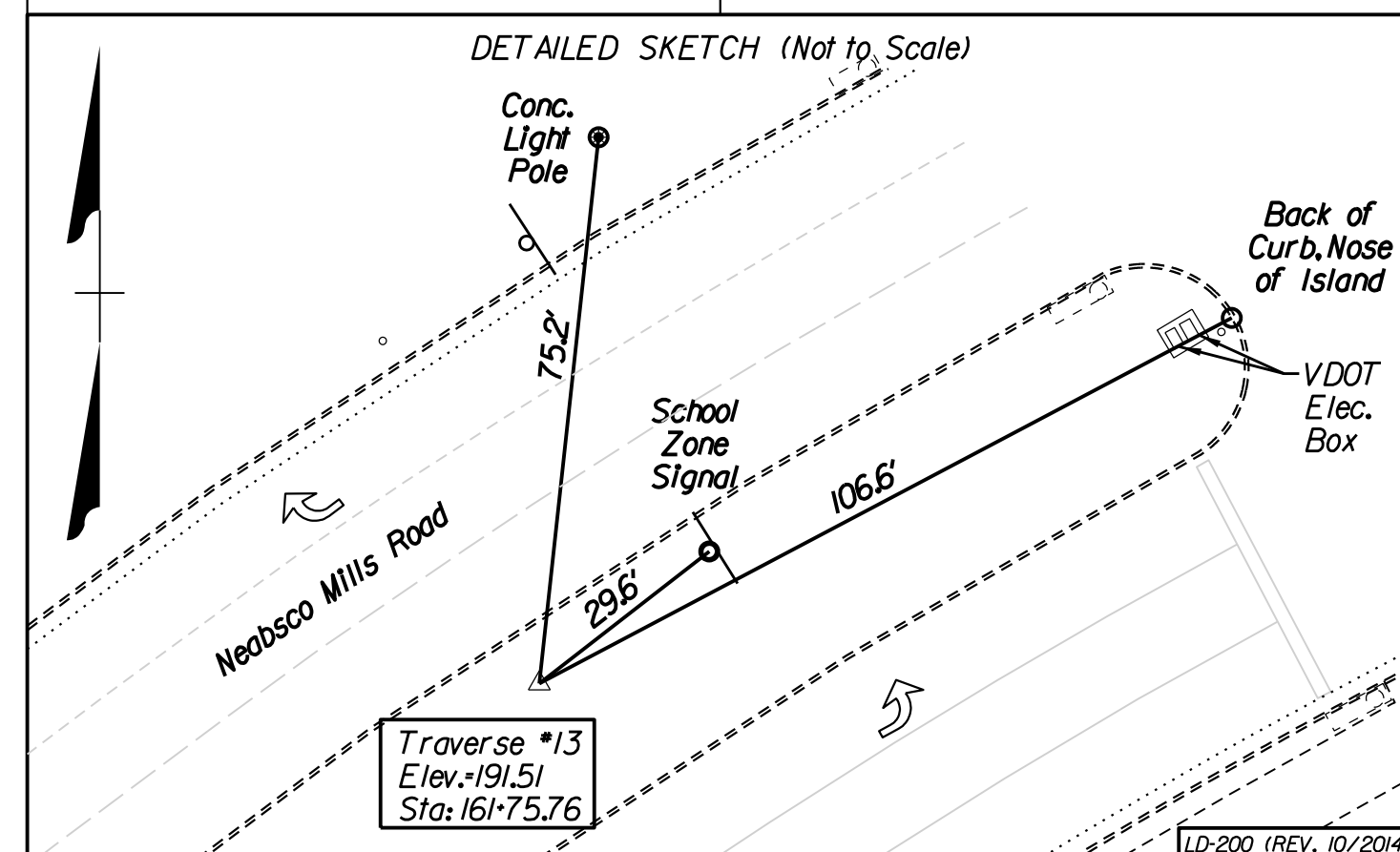
LD-200 (REV. 10/2014) Virginia Department of Transportation Horizontal Control
Control Station I.D. : 11 Date : 06-26-17

VDOT Project Coordinates (2014) East (X) : 11,828,329.74 ft. North (Y) : 6,911,709.67 ft. Elevation : 180.65 ft.	VA State Plane Coordinates : NAD 83 - U.S. Survey Feet East (X) : _____ ft. North (Y) : _____ ft. Ortho. Elevation (H) : _____ ft. Zone : North _____ South _____ (place an "X" beside one)
Project Specific Combined Scale Factor: 1. _____ (9 Decimal Places)	Project Information Project Number : _____ Route : 638 City/County : Prince William Established By : Rinker Design Associates, P.C.
Latitude : _____ N (5 Decimal Places) Longitude : _____ W (5 Decimal Places) Geoid Separation (N) : _____ Ellipsoid Height (h) : _____ Horizontal Datum : _____ Year : _____ Vertical Datum : _____ Geoid : _____ Azimuth to Station : _____ Is _____ Control Based On: Station (Name/PID) _____ or Project (Monument No.) : _____	To convert Virginia State Plane Coordinates to VDOT Project Coordinates, use the following formula : • Multiply the Easting And Northing Values (For Both Zones) by the Project Specific Combined Scale Factor. (Located above left) • Reverse this Procedure to convert VDOT Project Coordinates (2014) to NAD 83 - U.S. Survey Feet



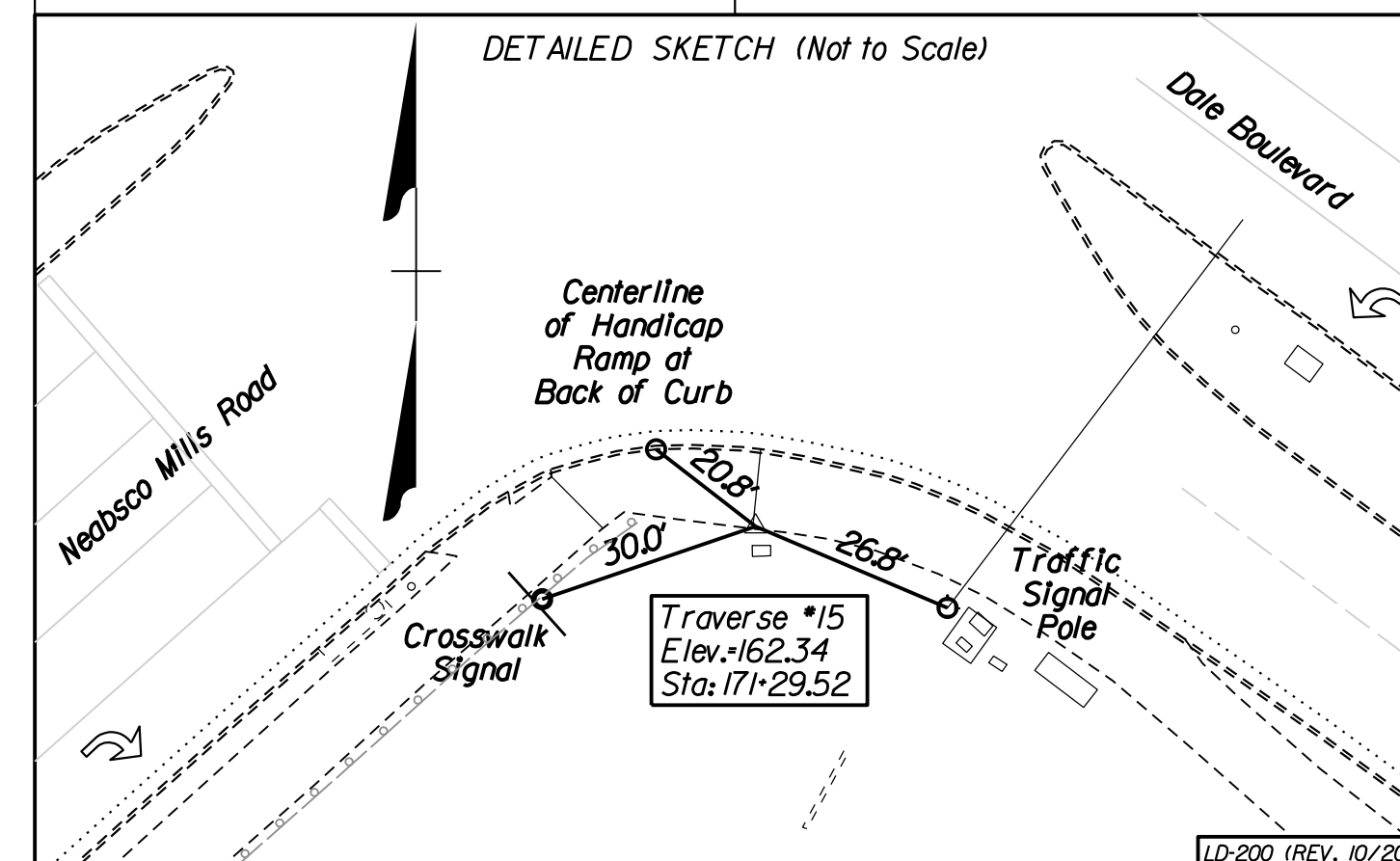
LD-200 (REV. 10/2014) Virginia Department of Transportation Horizontal Control
Control Station I.D. : 13 Date : 06-26-17

VDOT Project Coordinates (2014) East (X) : 11,828,697.97 ft. North (Y) : 6,912,541.0 ft. Elevation : 191.51 ft.	VA State Plane Coordinates : NAD 83 - U.S. Survey Feet East (X) : _____ ft. North (Y) : _____ ft. Ortho. Elevation (H) : _____ ft. Zone : North _____ South _____ (place an "X" beside one)
Project Specific Combined Scale Factor: 1. _____ (9 Decimal Places)	Project Information Project Number : _____ Route : 638 City/County : Prince William Established By : Prince William Associates, P.C.
Latitude : _____ N (5 Decimal Places) Longitude : _____ W (5 Decimal Places) Geoid Separation (N) : _____ Ellipsoid Height (h) : _____ Horizontal Datum : _____ Year : _____ Vertical Datum : _____ Geoid : _____ Azimuth to Station : _____ Is _____ Control Based On: Station (Name/PID) _____ or Project (Monument No.) : _____	To convert Virginia State Plane Coordinates to VDOT Project Coordinates, use the following formula : • Multiply the Easting And Northing Values (For Both Zones) by the Project Specific Combined Scale Factor. (Located above left) • Reverse this Procedure to convert VDOT Project Coordinates (2014) to NAD 83 - U.S. Survey Feet



LD-200 (REV. 10/2014) Virginia Department of Transportation Horizontal Control
Control Station I.D. : 15 Date : 06-26-17

VDOT Project Coordinates (2014) East (X) : 11,829,538.37 ft. North (Y) : 6,912,963.84 ft. Elevation : 162.34 ft.	VA State Plane Coordinates : NAD 83 - U.S. Survey Feet East (X) : _____ ft. North (Y) : _____ ft. Ortho. Elevation (H) : _____ ft. Zone : North _____ South _____ (place an "X" beside one)
Project Specific Combined Scale Factor: 1. _____ (9 Decimal Places)	Project Information Project Number : _____ Route : 638 City/County : Prince William Established By : Rinker Design Associates, P.C.
Latitude : _____ N (5 Decimal Places) Longitude : _____ W (5 Decimal Places) Geoid Separation (N) : _____ Ellipsoid Height (h) : _____ Horizontal Datum : _____ Year : _____ Vertical Datum : _____ Geoid : _____ Azimuth to Station : _____ Is _____ Control Based On: Station (Name/PID) _____ or Project (Monument No.) : _____	To convert Virginia State Plane Coordinates to VDOT Project Coordinates, use the following formula : • Multiply the Easting And Northing Values (For Both Zones) by the Project Specific Combined Scale Factor. (Located above left) • Reverse this Procedure to convert VDOT Project Coordinates (2014) to NAD 83 - U.S. Survey Feet



Route : Neabsco Mills Road
Project : 0638-076-209, PE101, RW201, CS01
District : NOVA
County : Prince William
From : Jefferson Davis Hwy. (US Rte. 1)
To : Smoke Ct. (Rte. 1282)
Horizontal Datum Based On VA North 1983.
Vertical Datum Based On NAVD 1988
Survey By : Ryan Dreehn, LS
Operator : Travis Dreehn
Date : 03 - 08 - 2017
Scale : 1" = 25'
UPC# : 107947

VDOT PROJECT NO. 0638-076-209 PWCDOT PROJECT NO. SPR2018-00271	SHEET NO. IF(1)
---	--------------------

THESE PLANS ARE UNFINISHED AND UNAPPROVED AND ARE NOT TO BE USED FOR ANY TYPE OF CONSTRUCTION.

R/W PHASE PLANS

Office Locations
 Rinker Design Associates, P.C.
 10000 Woodloch Forest Dr., Suite 200
 Fredericksburg, VA 22409
 Phone: (541) 325-1100
 Fax: (541) 325-1101
 Website: www.rinker.com
 Services: Land Planning, Surveying, Engineering, Environmental, Transportation, Right of Way Services

PROJECT MANAGER: EWCDOT - Khattab, Shammout, P.E. (703) 792-7193
SURVEYED BY, DATE: RDA: Bryan Dreel/a, LS (703) 334-9302, July 3, 2017
DESIGN BY: RDA: Mack, Gunn, P.E. (703) 334-9288
SUBSURFACE UTILITY BY, DATE: Accurack (703) 378-0100, August 1, 2017

Geometric Data

Table with project details: REVISIONS, STATE (VA), ROUTE (638), STATE (VA), VDOT PROJECT NO. (0638-076-209), SHEET NO. (IG), and DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC.

Neabsco Mills Road (Route 638)

Posted Speed 35 MPH
From Sta.10+00.00 to Sta.70+04.19

Chain RTE_638 contains:
105 CUR RTE_638_3 CUR RTE_638_4 CUR RTE_638_7 CUR RTE_638_8 CUR RTE_638_9 CUR RTE_638_10 CUR RTE_638_11 CUR RTE_638_14 CUR RTE_638_17 CUR RTE_638_20 106

Beginning chain RTE_638 description
Features: - 25 Scale Baselines

Point 105 N 6,908,211.38 E 11,828,908.87 Sta 10+00.00

Course from 105 to PC RTE_638_3 N 88° 34' 07.22" W Dist 265.83

Curve Data

Curve RTE_638_3 data table: P.I. Station, Delta, Degree, Tangent, Length, Radius, External, Long Chord, Mid.Ord., P.C. Station, P.T. Station, C.C., Back, Ahead, Chord Bear.

Curve Data

Curve RTE_638_4 data table: P.I. Station, Delta, Degree, Tangent, Length, Radius, External, Long Chord, Mid.Ord., P.C. Station, P.T. Station, C.C., Back, Ahead, Chord Bear.

Course from PT RTE_638_4 to PC RTE_638_7 N 6° 27' 14.65" E Dist 583.52

Curve Data

Curve RTE_638_7 data table: P.I. Station, Delta, Degree, Tangent, Length, Radius, External, Long Chord, Mid.Ord., P.C. Station, P.T. Station, C.C., Back, Ahead, Chord Bear.

Curve Data

Curve RTE_638_8 data table: P.I. Station, Delta, Degree, Tangent, Length, Radius, External, Long Chord, Mid.Ord., P.C. Station, P.T. Station, C.C., Back, Ahead, Chord Bear.

Curve Data

Curve RTE_638_9 data table: P.I. Station, Delta, Degree, Tangent, Length, Radius, External, Long Chord, Mid.Ord., P.C. Station, P.T. Station, C.C., Back, Ahead, Chord Bear.

Curve Data

Curve RTE_638_10 data table: P.I. Station, Delta, Degree, Tangent, Length, Radius, External, Long Chord, Mid.Ord., P.C. Station, P.T. Station, C.C., Back, Ahead, Chord Bear.

Curve Data

Curve RTE_638_11 data table: P.I. Station, Delta, Degree, Tangent, Length, Radius, External, Long Chord, Mid.Ord., P.C. Station, P.T. Station, C.C., Back, Ahead, Chord Bear.

Course from PT RTE_638_11 to PC RTE_638_14 N 3° 45' 05.10" W Dist 595.99

Curve Data

Curve RTE_638_14 data table: P.I. Station, Delta, Degree, Tangent, Length, Radius, External, Long Chord, Mid.Ord., P.C. Station, P.T. Station, C.C., Back, Ahead, Chord Bear.

Course from PT RTE_638_14 to PC RTE_638_17 N 26° 29' 37.60" E Dist 96.51

Curve Data

Curve RTE_638_17 data table: P.I. Station, Delta, Degree, Tangent, Length, Radius, External, Long Chord, Mid.Ord., P.C. Station, P.T. Station, C.C., Back, Ahead, Chord Bear.

Course from PT RTE_638_17 to PC RTE_638_20 N 65° 23' 28.52" E Dist 230.12

Curve Data

Curve RTE_638_20 data table: P.I. Station, Delta, Degree, Tangent, Length, Radius, External, Long Chord, Mid.Ord., P.C. Station, P.T. Station, C.C., Back, Ahead, Chord Bear.

Course from PT RTE_638_20 to 106 N 48° 14' 31.79" E Dist 259.13

Point 106 N 6,913,061.95 E 11,829,527.82 Sta 70+04.19

Ending chain RTE_638 description

Jefferson Davis Highway (Route 1)

Posted Speed 35 MPH
From Sta.500+00.00 to Sta.553+99.54

Chain RTE_1 contains:
59 CUR RTE_1_3 60

Beginning chain RTE_1 description
Features: - 25 Scale Baselines

Point 59 N 6,907,567.52 E 11,828,474.36 Sta 500+00.00

Course from 59 to PC RTE_1_3 N 19° 05' 41.09" E Dist 2,464.19

Curve Data

Curve RTE_1_3 data table: P.I. Station, Delta, Degree, Tangent, Length, Radius, External, Long Chord, Mid.Ord., P.C. Station, P.T. Station, C.C., Back, Ahead, Chord Bear.

Course from PT RTE_1_3 to 60 N 43° 11' 53.33" E Dist 2,472.59

Point 60 N 6,912,091.76 E 11,831,210.60 Sta 553+99.54

Ending chain RTE_1 description

College Drive S (Private)

No Posted Speed
From Sta.10+00.00 to Sta.17+82.78

Chain ENTR_COLLEGES contains:
57 CUR ENTR_COLLEGES1 CUR ENTR_COLLEGES2 58

Beginning chain ENTR_COLLEGES description

Point 57 N 6,909,663.60 E 11,828,431.06 Sta 10+00.00

Course from 57 to PC ENTR_COLLEGES1 N 83° 32' 45.35" W Dist 116.52

Curve Data

Curve ENTR_COLLEGES1 data table: P.I. Station, Delta, Degree, Tangent, Length, Radius, External, Long Chord, Mid.Ord., P.C. Station, P.T. Station, C.C., Back, Ahead, Chord Bear.

Curve Data

Curve ENTR_COLLEGES2 data table: P.I. Station, Delta, Degree, Tangent, Length, Radius, External, Long Chord, Mid.Ord., P.C. Station, P.T. Station, C.C., Back, Ahead, Chord Bear.

Course from PT ENTR_COLLEGES2 to 58 N 12° 23' 45.80" W Dist 144.44

Point 58 N 6,910,161.88 E 11,827,939.60 Sta 17+82.78

Ending chain ENTR_COLLEGES description

Church Entr.

No Posted Speed
From Sta.10+00.00 to Sta.11+21.15

Chain ENTR_CHURCH contains:
61 62

Beginning chain ENTR_CHURCH description

Point 61 N 6,909,678.12 E 11,828,432.85 Sta 10+00.00

Course from 61 to 62 S 83° 37' 42.84" E Dist 121.15

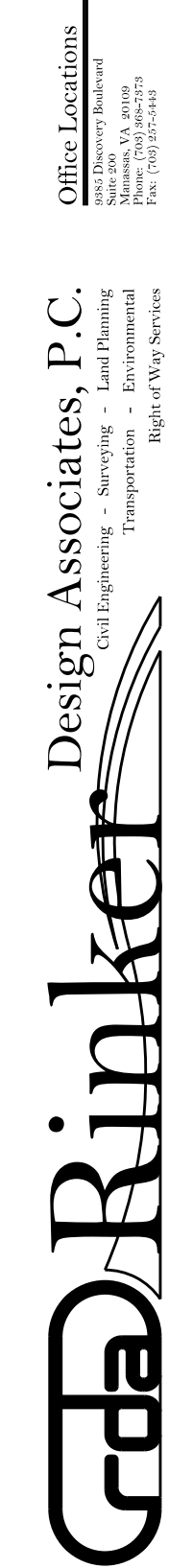
Point 62 N 6,909,664.67 E 11,828,553.25 Sta 11+21.15

Ending chain ENTR_CHURCH description

Table with project details: VDOT PROJECT NO. (0638-076-209), SHEET NO. (IG), PWCDOT PROJECT NO. (SPR2018-00271).

THESE PLANS ARE UNFINISHED AND UNAPPROVED AND ARE NOT TO BE USED FOR ANY TYPE OF CONSTRUCTION.

R/W PHASE PLANS



PROJECT MANAGER: EWCDOT - Khattab, Shammaul, P.E. : (703) 792-7193
SURVEYED BY, DATE: RDA: Bryan Dreella, LS (703) 334-9302, July 3, 2017
DESIGN BY: RDA: Mack, Gunn, P.E. (703) 334-9288
SUBSURFACE UTILITY BY, DATE: Accurmark (703) 378-0100, August 1, 2017

Geometric Data

REVISED	STATE	STATE		SHEET NO.
	ROUTE	VDOT PROJECT NO.		
	VA.	638	0638-076-209 PE/01 CS/01 RW/201	IG(2)

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
(Roadway)

Comm. Entr. (Ron's Auto Body)

No Posted Speed
From Sta. 10+00.00 to Sta. 11+50.00

Chain ENTR_1697LT contains:
87 CUR ENTR_1697LT-1 88

Beginning chain ENTR_1697LT description

Point 87 N 6,908,429.88 E 11,828,315.98 Sta 10+00.00

Course from 87 to PC ENTR_1697LT-1 S 63° 41' 44.00" W Dist 44.51

Curve Data

Curve ENTR_1697LT-1
 P.I. Station 10+63.79 N 6,908,401.62 E 11,828,258.80
 Delta 27° 05' 58.07" (RT)
 Degree 77° 37' 11.01"
 Tangent 19.28
 Length 37.84
 Radius 80.00
 External 2.29
 Long Chord 37.49
 Mid. Ord. 2.23
 P.C. Station 10+44.51 N 6,908,410.16 E 11,828,276.08
 P.T. Station 10+82.34 N 6,908,401.88 E 11,828,239.52
 C.C. N 6,908,481.88 E 11,828,240.63
 Back S 63° 41' 44.00" W
 Ahead N 89° 12' 17.93" W
 Chord Bear S 77° 14' 43.04" W

Course from PT ENTR_1697LT-1 to 88 N 89° 12' 17.93" W Dist 67.66

Point 88 N 6,908,402.82 E 11,828,171.87 Sta 11+50.00

Ending chain ENTR_1697LT description

Comm. Entr. (Mid Atlantic Wrecker)

No Posted Speed
From Sta. 10+00.00 to Sta. 11+50.00

Chain ENTR_1799LT contains:
71 72

Beginning chain ENTR_1799LT description

Point 71 N 6,908,528.58 E 11,828,284.68 Sta 10+00.00

Course from 71 to 72 N 89° 12' 17.93" W Dist 150.00

Point 72 N 6,908,530.66 E 11,828,134.69 Sta 11+50.00

Ending chain ENTR_1799LT description

Comm. Entr. (Koons Right Out Only)

No Posted Speed
From Sta. 10+00.00 to Sta. 11+50.00

Chain ENTR_2093RT contains:
67 CUR ENTR_2093RT-1 68

Beginning chain ENTR_2093RT description

Point 67 N 6,908,821.09 E 11,828,320.05 Sta 10+00.00

Course from 67 to PC ENTR_2093RT-1 S 21° 50' 08.24" E Dist 55.69

Curve Data

Curve ENTR_2093RT-1
 P.I. Station 10+82.56 N 6,908,744.45 E 11,828,350.76
 Delta 61° 40' 43.97" (LT)
 Degree 127° 19' 26.24"
 Tangent 26.87
 Length 48.44
 Radius 45.00
 External 7.41
 Long Chord 46.14
 Mid. Ord. 6.36
 P.C. Station 10+55.69 N 6,908,769.39 E 11,828,340.77
 P.T. Station 11+04.14 N 6,908,741.41 E 11,828,377.46
 C.C. N 6,908,786.12 E 11,828,382.54
 Back S 21° 50' 08.24" E
 Ahead S 83° 30' 52.21" E
 Chord Bear S 52° 40' 30.23" E

Course from PT ENTR_2093RT-1 to 68 S 83° 30' 52.21" E Dist 45.86

Point 68 N 6,908,736.23 E 11,828,423.03 Sta 11+50.00

Ending chain ENTR_2093RT description

Comm. Entr. (Redman)

No Posted Speed
From Sta. 10+00.00 to Sta. 11+50.00

Chain ENTR_2149LT contains:
65 66

Beginning chain ENTR_2149LT description

Point 65 N 6,908,893.22 E 11,828,333.62 Sta 10+00.00

Course from 65 to 66 N 79° 47' 31.57" W Dist 150.00

Point 66 N 6,908,919.81 E 11,828,185.99 Sta 11+50.00

Ending chain ENTR_2149LT description

Comm. Entr. (Veterinary)

No Posted Speed
From Sta. 10+00.00 to Sta. 11+06.98

Chain ENTR_2353LT contains:
109 110

Beginning chain ENTR_2353LT description
Feature: - 25 Scale Baselines

Point 109 N 6,909,094.37 E 11,828,365.42 Sta 10+00.00

Course from 109 to 110 N 82° 22' 57.36" W Dist 106.98

Point 110 N 6,909,108.55 E 11,828,259.39 Sta 11+06.98

Ending chain ENTR_2353LT description

Comm. Entr. (Flats at Neabsco Apartments)

No Posted Speed
From Sta. 10+00.00 to Sta. 11+75.00

Chain ENTR_5636 contains:
95 96

Beginning chain ENTR_5636 description
Feature: - 25 Scale Baselines

Point 95 N 6,912,266.53 E 11,828,441.55 Sta 10+00.00

Course from 95 to 96 N 58° 17' 16.95" W Dist 175.00

Point 96 N 6,912,358.52 E 11,828,292.68 Sta 11+75.00

Ending chain ENTR_5636 description

SWM Entrance

No Posted Speed
From Sta. 10+00.00 to Sta. 13+00.00

Chain ENTR_POND contains:
POND101 CUR ENTR_POND1 CUR ENTR_POND2 POND102

Beginning chain ENTR_POND description

Point POND101 N 6,909,615.93 E 11,828,425.67 Sta 10+00.00

Course from POND101 to PC ENTR_POND1 S 89° 11' 42.05" W Dist 113.88

Curve Data

Curve ENTR_POND1
 P.I. Station 11+19.38 N 6,909,614.25 E 11,828,306.31
 Delta 12° 32' 20.77" (RT)
 Degree 114° 35' 29.61"
 Tangent 5.49
 Length 10.94
 Radius 50.00
 External 0.30
 Long Chord 10.92
 Mid. Ord. 0.30
 P.C. Station 11+13.88 N 6,909,614.33 E 11,828,311.80
 P.T. Station 11+24.83 N 6,909,615.37 E 11,828,300.93
 C.C. N 6,909,664.32 E 11,828,311.00
 Back S 89° 11' 42.05" W
 Ahead N 78° 15' 57.18" W
 Chord Bear N 84° 32' 07.57" W

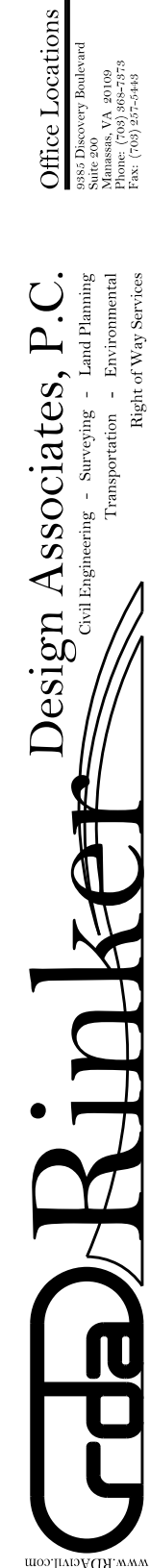
Curve Data

Curve ENTR_POND2
 P.I. Station 11+57.20 N 6,909,621.95 E 11,828,269.23
 Delta 88° 54' 16.45" (LT)
 Degree 173° 37' 24.87"
 Tangent 32.38
 Length 51.21
 Radius 33.00
 External 13.23
 Long Chord 46.22
 Mid. Ord. 9.44
 P.C. Station 11+24.83 N 6,909,615.37 E 11,828,300.93
 P.T. Station 11+76.03 N 6,909,590.38 E 11,828,262.04
 C.C. N 6,909,583.06 E 11,828,294.22
 Back N 78° 15' 57.18" W
 Ahead S 12° 49' 46.37" W
 Chord Bear S 57° 16' 54.59" W

Course from PT ENTR_POND2 to POND102 S 12° 49' 46.37" W Dist 123.97

Point POND102 N 6,909,469.51 E 11,828,234.51 Sta 13+00.00

Ending chain ENTR_POND description



PROJECT MANAGER: EWCDOT - Khattab, Shamout, P.E. (703) 792-7193
SURVEYED BY, DATE: RDA: Bryan Drealet, LS (703) 334-9302, July 3, 2017
DESIGN BY: RDA: Mack, Gunn, P.E. (703) 334-9288
SUBSURFACE UTILITY BY, DATE: Accurack, (703) 378-9100, August 1, 2017

Temporary Traffic Control General Notes

Table with columns: REVISED, STATE, ROUTE, STATE, VDOT PROJECT NO., SHEET NO. Values: VA, 638, 0638-076-209 PE101 CS01 RW201, JJ

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 (Roadway)

Temporary Traffic Control Plan

General Notes:

1 Transportation Management Plan/Sequence of Construction Type B Project Information:

- a Identify the project's TMP Type. This project's TMP/SOC has been designed in conformance with a Type B, Category III TMP/SOC.
b Identify the work zone location, length, and widths. The project location is as shown on Sheet IA. The work zone areas have been delineated as shown on the TMP/SOC Sheet IK through IM series.
c Note the hours the Construction Area will be active. Construction Area shall be considered active when any impact to traffic occurs (1st Cone In Road).

Table with columns: Day, Hours. Monday through Thursday: 9:30 AM to 3:00 PM; Friday: 9:30 AM to 2:00 PM; Friday through Sunday: 11:00 PM to 5:00 AM

No lane closures will be allowed from noon on the day before a holiday until noon on the workday following the holiday. Holidays include all State and Federal holidays.

- d The TMP/SOC, during construction, shall be in accordance with the Virginia Department of Transportation Road and Bridge Specifications, dated 2016; the 2011 Virginia Work Area Protection Manual, Revision 1; the Manual on Uniform Traffic Control Devices (MUTCD), Revision 1 & 2, 2009 Edition; and the Virginia Supplement to the MUTCD, dated 2011.
e Note any existing entrances, existing intersections, or existing pedestrian access points that will be affected by the Construction Area or by the traffic control devices.

Existing Entrances: All existing commercial or private entrances shall remain open for the duration of construction. The Contractor shall ensure that all entrance accessibility is maintained during construction.

Existing Intersections: There are three intersections within the project limits. An unsignalized intersection of Neabsco Mills Road and College Drive at approximate station 29+25. This intersection shall remain operational for the duration of the project. A signalized intersection of Neabsco Mills Road and Jefferson Davis Highway (Route 1) at approximate station 12+00. This signal and intersection shall remain operational for the duration of the project. A signalized intersection of Neabsco Mills Road and College Drive at approximate station 50+00. This signal and intersection shall remain operational for the duration of the project.

Existing Pedestrian Access Points: There is an existing crosswalk at the beginning of the project crossing Neabsco Mills Road and cross walks at the signalized intersection with College Drive. These crosswalks are to be maintained throughout construction. The contractor shall ensure safe access to pedestrians.

Existing Bus Stops: All bus stops are to be maintained for the duration of the project.

- f Identify the major types of travelers: The roadway carries diverse types of travelers. Freedom High School is located at the signalized intersection of Neabsco Mills Road and College Drive at approximate station 50+00. Northern Virginia Community College (Woodbridge Campus) is located on College Drive, being accessed by Neabsco Mills Road. In the peak hours however, daily commuters are the prevailing traveler type for this roadway.
g The Contractor, at no additional cost to the project and which shall be considered incidental to the cost of the project, shall:

Designate a person assigned to the project who will have the primary responsibility, with sufficient authority, for implementing the TMP/SOC and other safety and mobility aspects of the permit work. This person shall be designated the "Project Safety Officer."

Ensure that personnel assigned to the project are trained in traffic control to a level commensurate with their responsibilities in accordance with VDOT's work zone traffic control training guidelines.

Inform the VDOT, Prince William County, and/or the Engineer of any work requiring lane shifts, lane closures, and/or phase changes a minimum of one week prior to implementing this activity. Prince William County may use various media publications to announce changes in traffic conditions for which the Contractor shall provide information as needed at no additional cost to the project.

Perform reviews of the Construction Area to ensure compliance with contract documents at regularly scheduled intervals at the direction of the Engineer. Contractor shall maintain a copy of the temporary traffic control plan at the work site at all times.

Coordinate with the Prince William County Police Department, Prince William County Fire/Rescue Department, and Virginia State Police for any lane closures and any detours of any nature at no additional cost to the project.

Notify the Regional Transportation Operations Center (TOC) 48 hours in advance in order to place lane closure information on the 511 System and VA-Traffic.

Schedule all phases of construction in such a manner that water, sanitary sewer, cable, fiber cable/optic cable, any overhanging utilities, and any underground utilities services will not be interrupted.

h During non-working hours, all construction equipment is to stay outside of the construction area clear zone as designated in the VWAPM, Appendix A. Construction equipment (including temporary concrete traffic barrier service) is not to block or obstruct sight distance at any intersection or private entrance along the project when the construction work zone is active.

2 This TMP/SOC plan is intended as a guide. It is not to enumerate every detail which must be considered in the construction of each phase, but only to show the general handling of existing traffic. The distance requirements for the advance warning signs, the contractor may modify the TTC examples in the Virginia Work Area Protection Manual only slightly. Any significant deviation will require a signed and sealed plan to be submitted for approval PRIOR to work at the proposed location.

3 Contractor is to maintain two lanes of traffic (one in each direction) on Neabsco Mills Road during construction of this project with a minimum clear roadway width in accordance with VDOT standard GS-10, Type E, unless otherwise approved by the Engineer. For street intersections, commercial connections, or private entrances, a minimum width no less than existing width shall be maintained at all times unless otherwise approved by the Engineer. When construction zone is not active, the Contractor shall ensure all street connections/entrances maintain a minimum of two lanes of traffic (one in each direction).

4 Contractor shall follow the geotechnical recommendations for the project. Materials designated as unsuitable material as detailed in the geotechnical recommendations shall be disposed of offsite and are not to be used for any part of construction.

5 Existing surface, aggregate base, and sub base material which will be demolished or obliterated during construction, and which are suitable for maintenance of traffic, should be utilized prior to the use of commercial material.

6 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.

7 Contractor shall ensure positive drainage for the duration of the project. Contractor shall add any additional temporary measures necessary to facilitate proper, positive drainage for the duration of construction.

8 Where Group 2 Channelizing Devices are used to separate the Construction Area and traffic, a minimum clear zone area as defined in the VWAPM, Appendix A is to be maintained.

9 The Contractor is to coordinate with Prince William County for location(s) of the construction staging area(s). Contractor shall obtain all necessary permits and easements for the construction staging area and/or office to be located onsite within the project limits. The Contractor is responsible for these costs (permits, easements), and they shall be incidental to the project and not paid for as a separate item.

10 All areas excavated below the existing pavement surface and within the clear zone at the conclusion of each workday, shall be backfilled to form an approximate 6:1 wedge against the existing pavement or newly constructed pavement surface for the safety and protection of vehicular traffic. All costs for placing, maintaining, and removing 6:1 wedge shall be included in the price bid for other items in the contract and no additional compensation shall be allowed.

11 IMPLEMENTING THE TRANSPORTATION MANAGEMENT PLAN During the first day of the new work zone traffic pattern, the project's Manager and project's Maintenance of Traffic Coordinator shall inspect the work zone to ensure compliance with the TMP. On the third to fifth day of implementation of the TMP's new work zone traffic pattern, the District Work Zone Safety Coordinator and the project's Maintenance of Traffic Coordinator shall conduct an on-site review of the work zone's performance and recommend to the Contractor any required changes to the TMP to enhance the work zone's safety and mobility. All such changes shall be documented. An on-site review of the project's work zone traffic control by the District Work Zone Safety Coordinator, project's Manager/Maintenance of Traffic Coordinator, District Safety Engineer, and the Contractor shall be conducted within 48 hours of any fatal incident/crash within the work zone.

12 EVALUATION OF THE TRANSPORTATION MANAGEMENT PLAN A performance assessment of the TMP including area-wide impacts on adjacent roadways shall be performed by the Regional Traffic Engineering and Operations sections during construction. As circumstances dictate, a review of the overall effectiveness of the project's TMP shall be completed during the Post-Construction Meeting and included with the Post-Construction Report. A copy of the specific information on the effectiveness of the TMP will be forwarded to the State Traffic Engineer for review. A copy of the TMP Interim/Post-Construction Report Form can be obtained from the Regional Traffic Engineer.

13 PUBLIC COMMUNICATIONS PLAN The Contractor shall be responsible for:

- a Notifying the Project Manager/Residency Administrator two weeks in advance of any scheduled work plans and traffic delays.
b Notifying the Project Manager/Residency Administrator, Regional Operations Manager, and the Public Affairs Staff of any unscheduled traffic delays.

14 TRANSPORTATION OPERATIONS The Contractor shall be responsible for implementing and providing the following:

- a Notify the Regional Transportation Operations Center (TOC), who TOC requires one-week advanced notice to place lane closure information in the 511 system (LCAMS). This is usually the Wednesday prior to the requested operation. It is further suggested that an individual is designated as the LCAMS representative for the contractor in order to keep the submitted information consistent. The Department offers training for LCAMS submitters.
b Post a list of local emergency response agencies inside the project's construction office/trailer.
c Immediately report any traffic incidents that may occur in the work zone.
d Notify the project's Maintenance of Traffic Coordinator, Project Manager, Resident Administrator, District Work Zone Safety Coordinator, District Traffic Engineer, the Regional Operations Manager, and Public Affairs Manager of any incidents and expected traffic delays.
e Within 24 hours of any incidents within the construction work zone, a review of the traffic controls shall be completed and necessary adjustments made to reduce the frequency and severity of any future incidents.
f Note the Lump Sum quantity for "TEMPORARY TRAFFIC CONTROL SIGNAL" includes the following: All labor and materials required for all equipment/infrastructure changes to signalizations for all phases (and changes in lane configurations at intersection) of construction, for the duration of the entire project, for each signal.
g Maintaining power service and phone connection(s) to all temporary traffic signalization for the duration of construction.
h Providing temporary signal plans to PWC & VDOT (for approval) prior to the start of construction activity for each temporary signal configuration to be utilized for each signal for the life of the project.
i Maintaining vehicle detection on all approaches at all times by means approved by PWC & VDOT.
j Submitting temporary signal timings for PWC & VDOT approval to be implemented.
k Maintaining qualified crew on-call 24 hours a day, to maintain all signals for the life of construction.

CONTACT NUMBERS

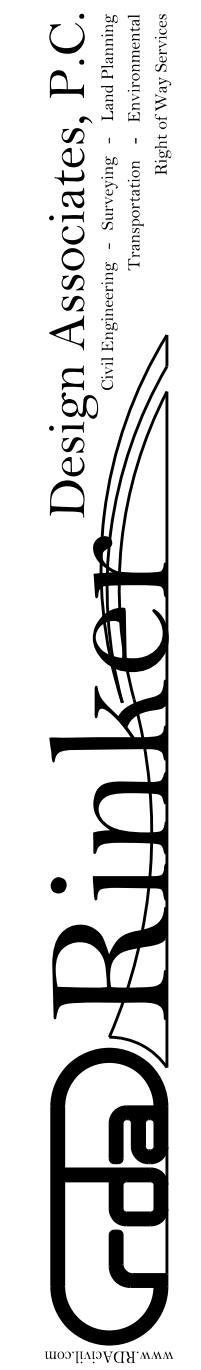
Table with columns: Role, Name, Phone Number. Project Manager: Matthew Beales (703) 792-5276; Construction Manager: Mohammad Ayyoubi (703) 792-7193; Construction Safety Manager: Mohammad Ayyoubi (703) 792-7193; Public Relations: Patricia Prince (703) 792-7193; VDOT Residency Administrator - Construction: Ken Connors (703) 383-2463; District Work Zone Safety Coordinator(s): Ahmed Youssef (703) 383-2925, Brian Fry (703) 383-2397; Emergency Call: (703) 792-6500; Non-Emergency Numbers: Police (703) 792-6500, Fire & Rescue (703) 792-6800

Form for TMP/SOC Designer: Matthew Beales, Advance Work Zone Traffic Control Training, VDOT Certificate No. 020218770, Expires 2-28-2022. Includes VDOT logo and State Traffic Engineer signature.

Table with columns: VDOT PROJECT NO., PWC DOT PROJECT NO., SHEET NO. Values: 0638-076-209, SPR2018-00271, JJ

THESE PLANS ARE UNFINISHED AND UNAPPROVED AND ARE NOT TO BE USED FOR ANY TYPE OF CONSTRUCTION.

R/W PHASE PLANS



PROJECT MANAGER: PWCDOT - Khattab, Shamout, P.E. (703) 792-7193
SURVEYED BY, DATE: RDA - Ryan, Dreelin, L.S. (703) 334-9302, July 3, 2017
DESIGN BY: RDA - Mack, Gunn, P.E. (703) 334-9288
SUBSURFACE UTILITY BY, DATE: Accurmark (703) 378-0100, August 1, 2017

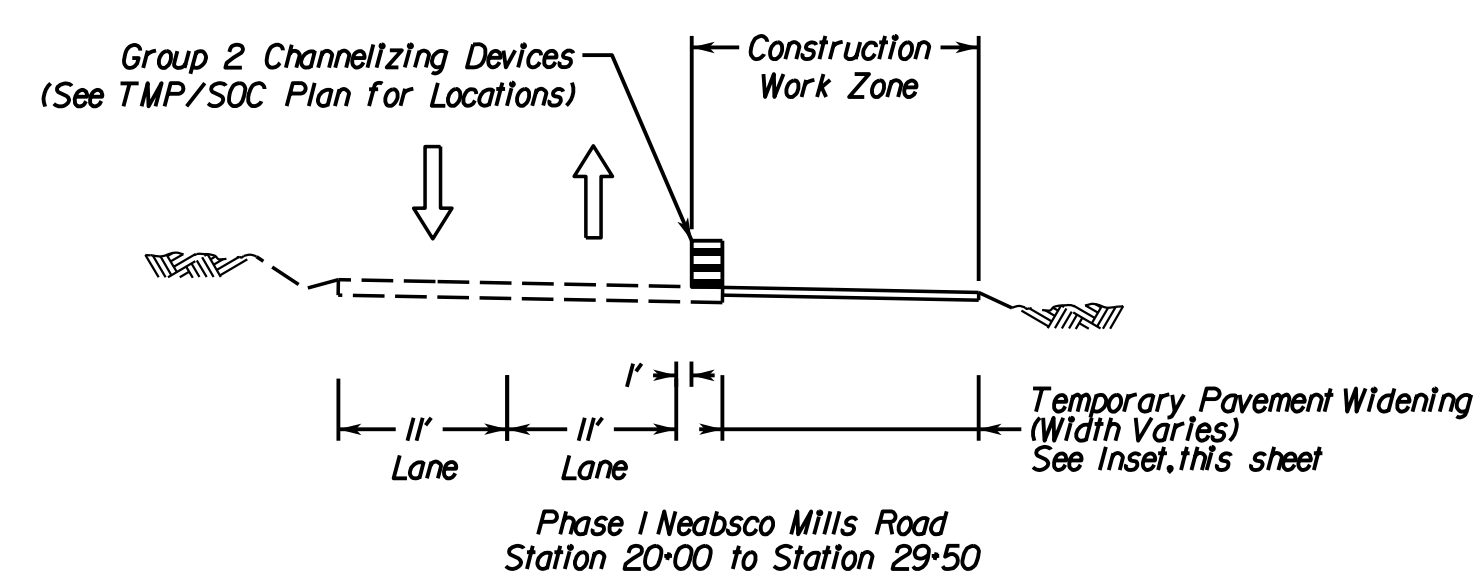
Temporary Traffic Control Typical Sections

REVISED	STATE		STATE		SHEET NO.
	VA.	ROUTE	VDOT PROJECT NO.		
		638	0638-076-209	PE/01 CS/01 RW/201	I/J(1)

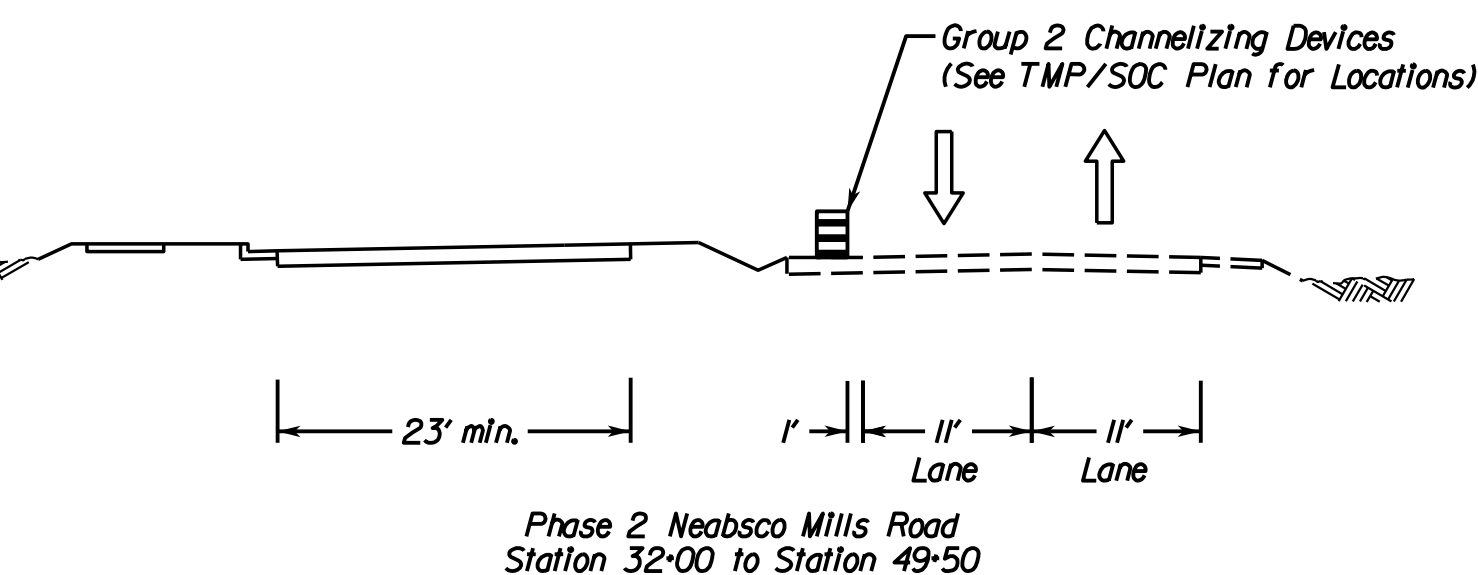
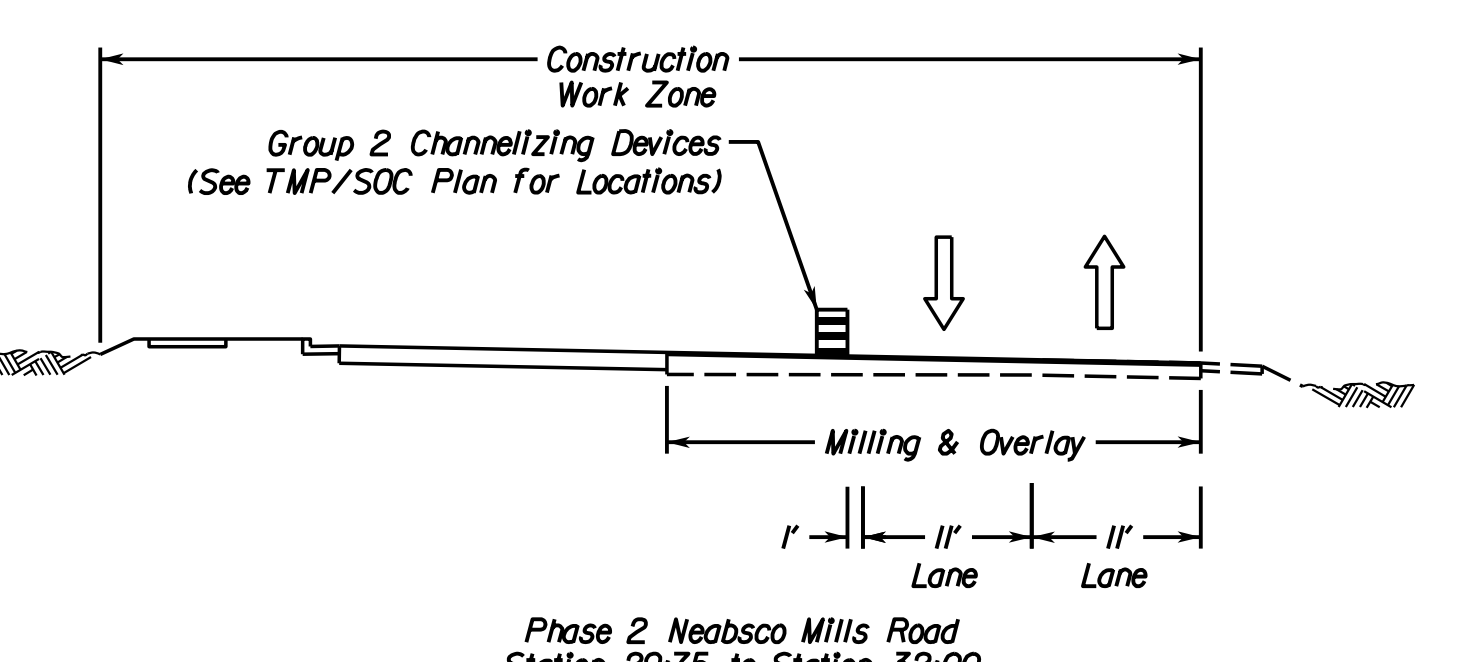
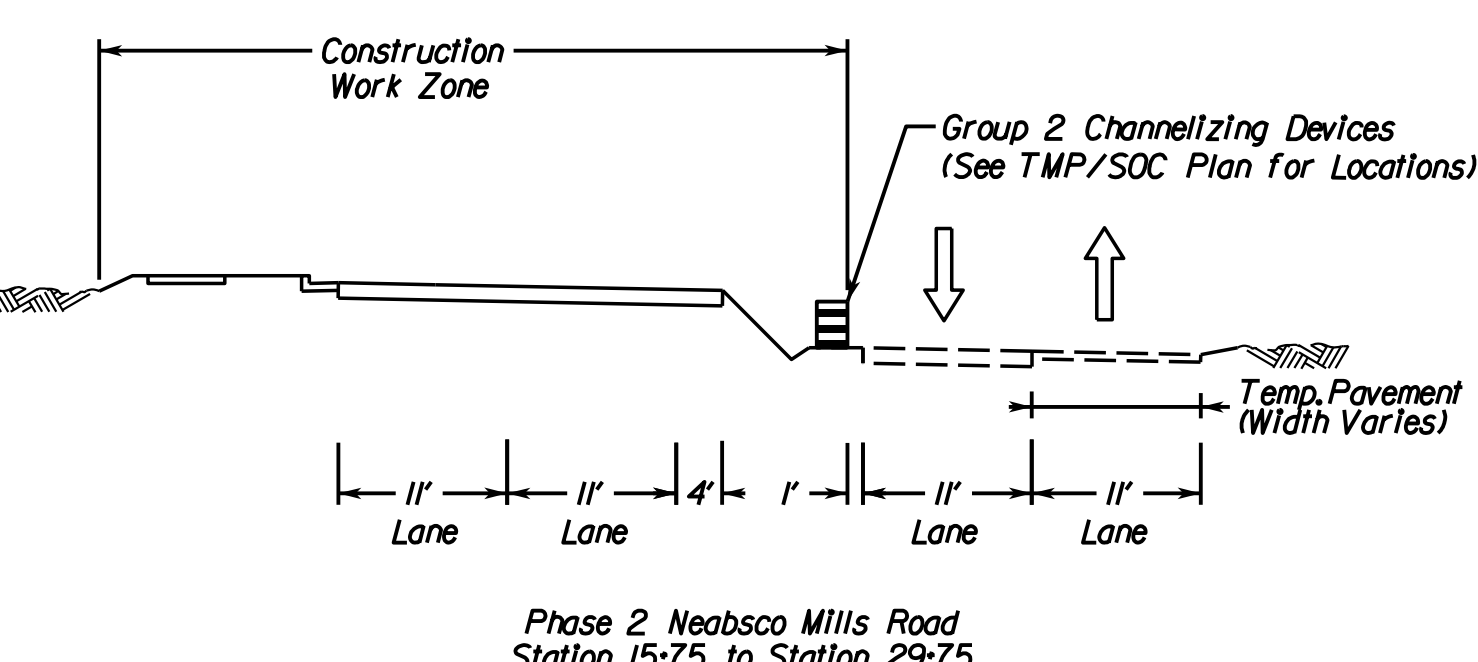
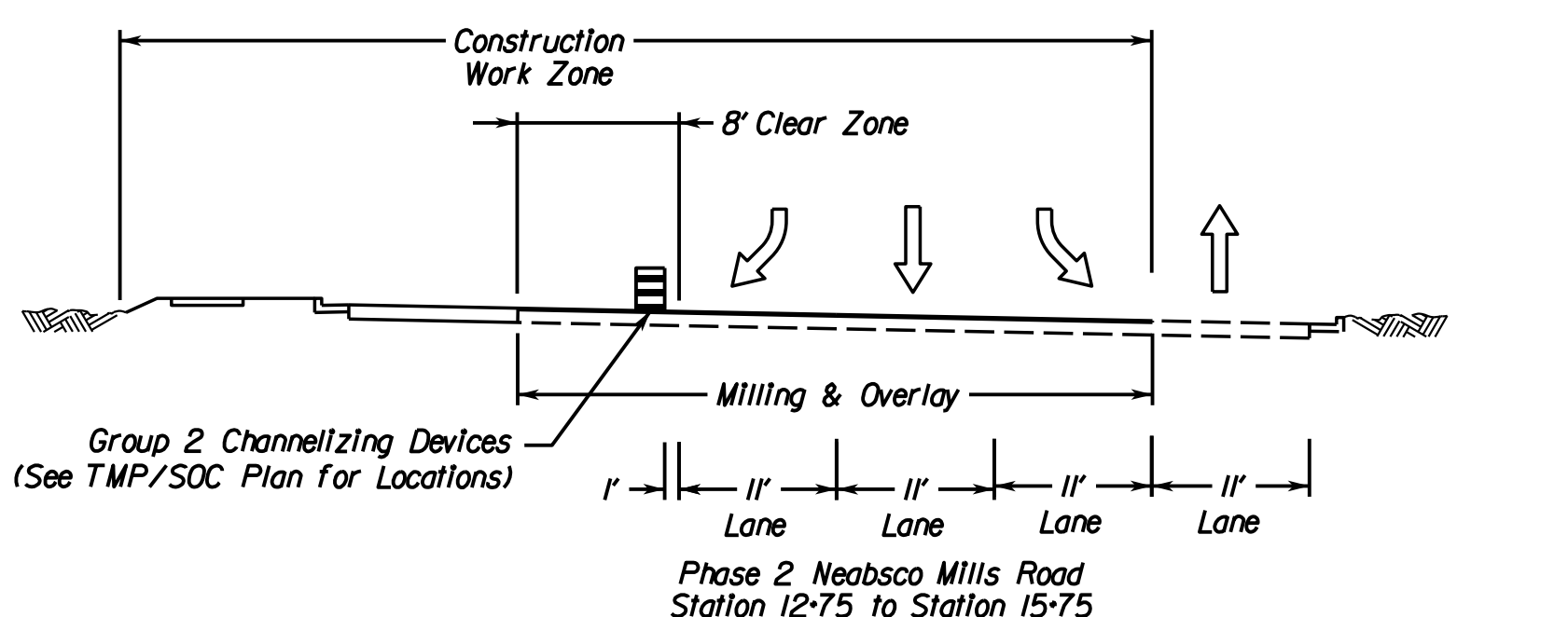
DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT

Rinker Design Assoc., P.C.
Fredericksburg, Virginia
(Roadway)

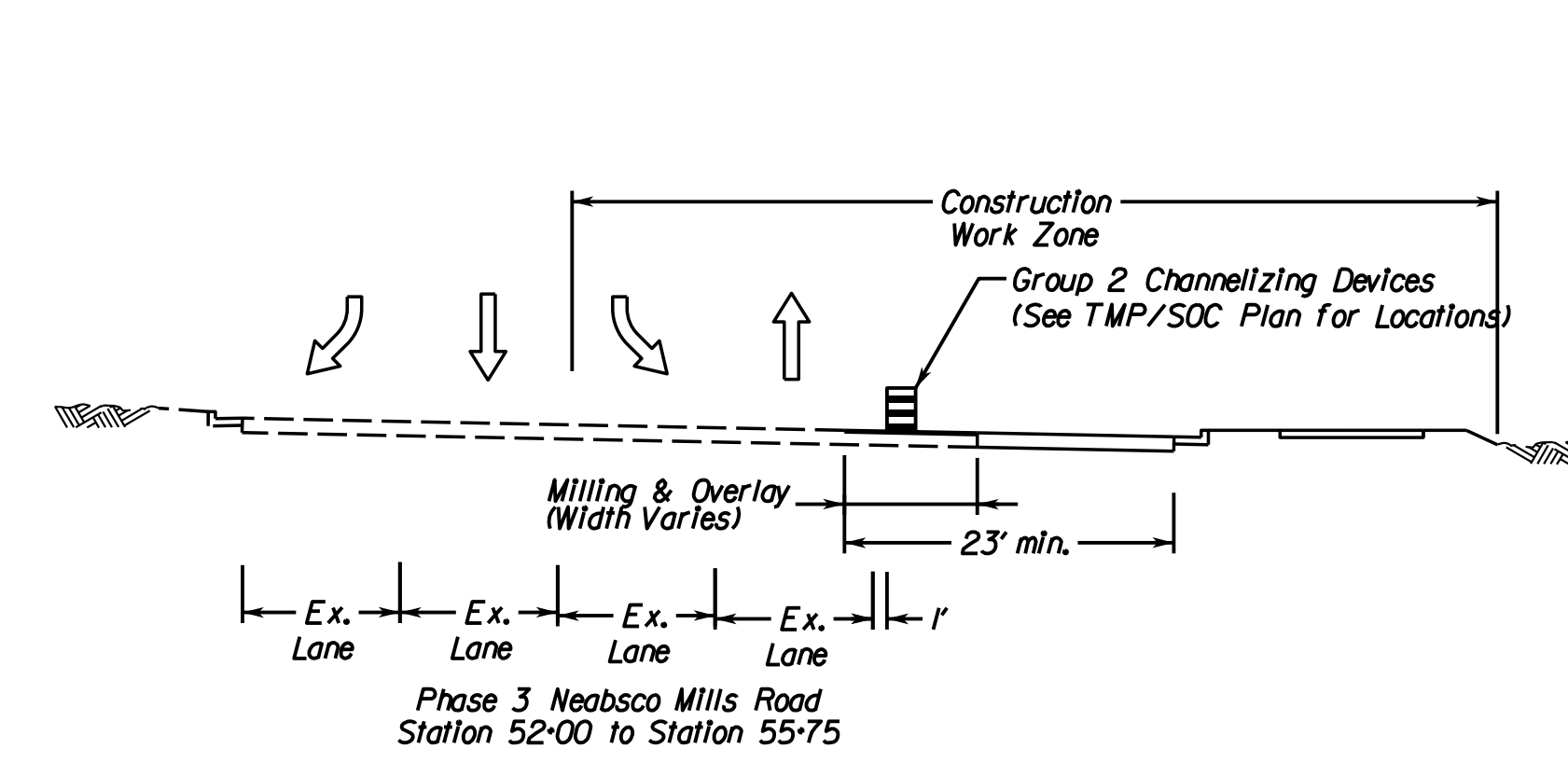
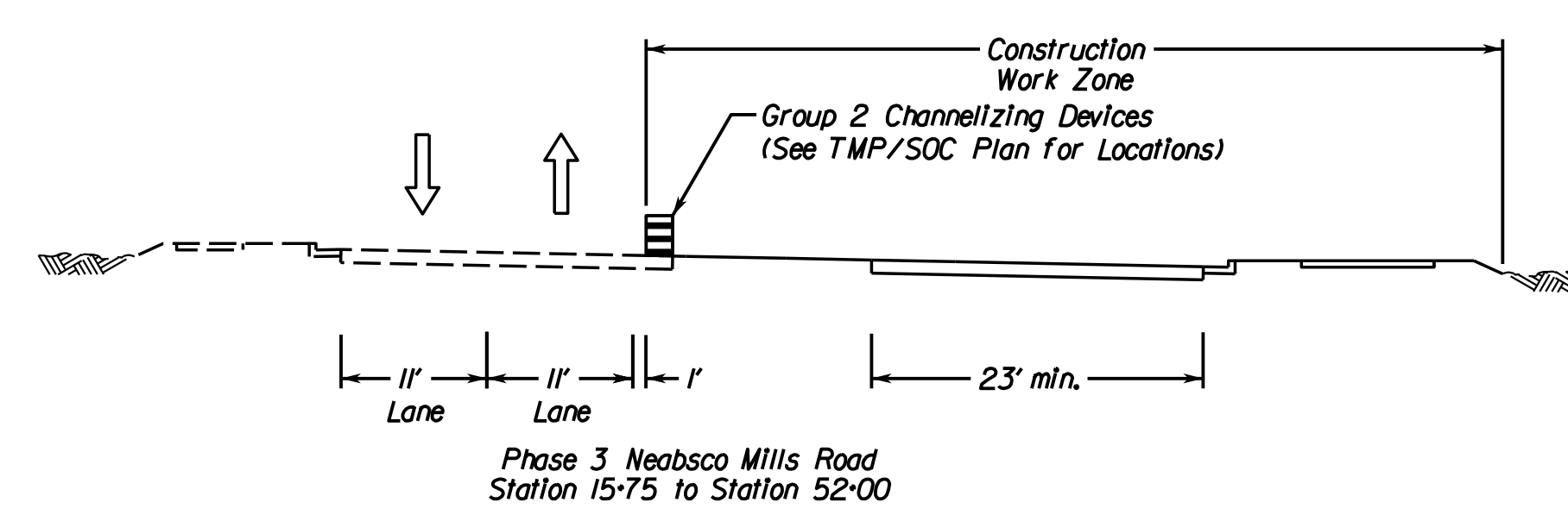
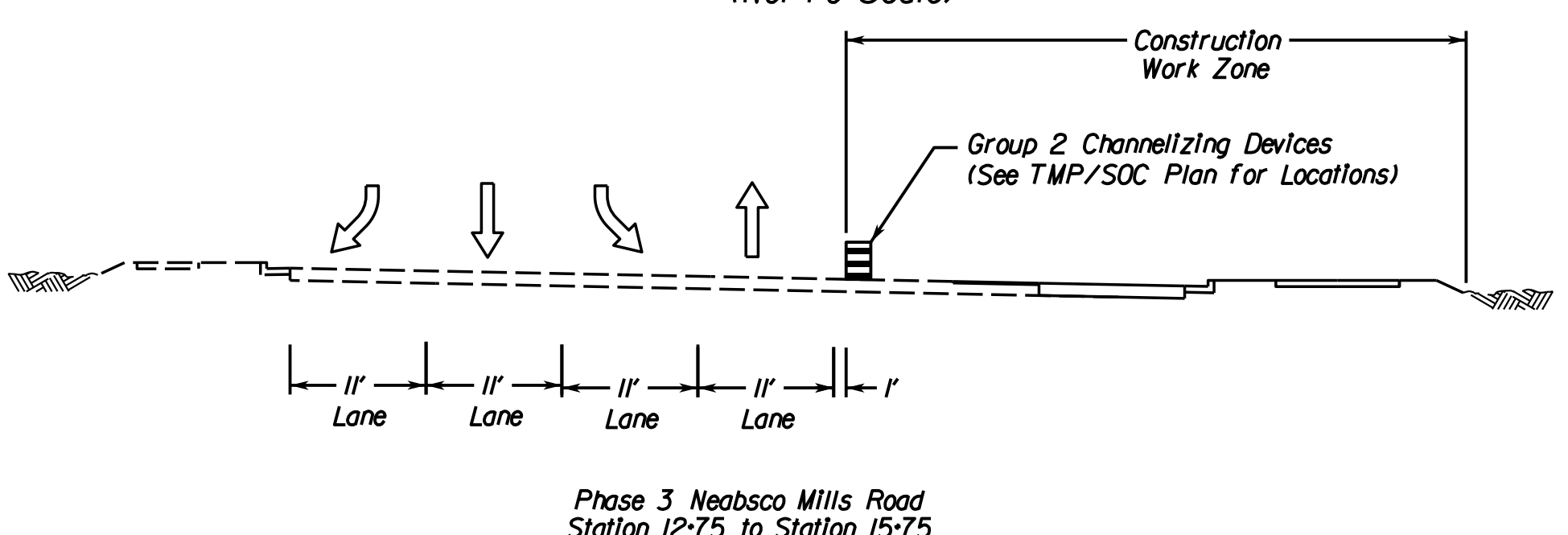
PHASE 1 Posted Speed: 35 mph (Not To Scale)



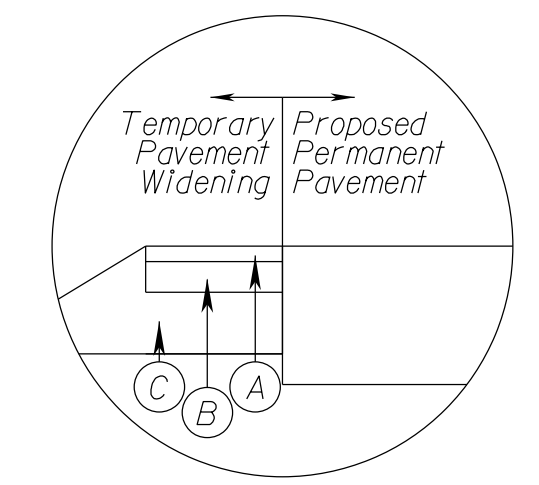
PHASE 2 Posted Speed: 35 mph (Not To Scale)



PHASE 3 Posted Speed: 35 mph (Not To Scale)

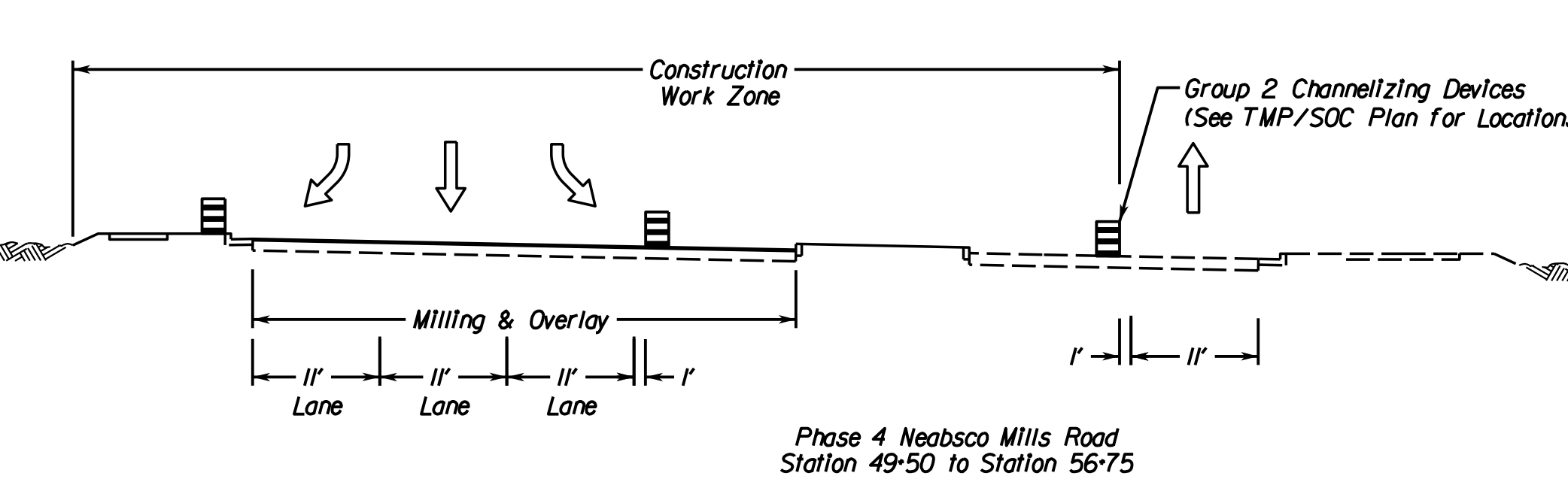
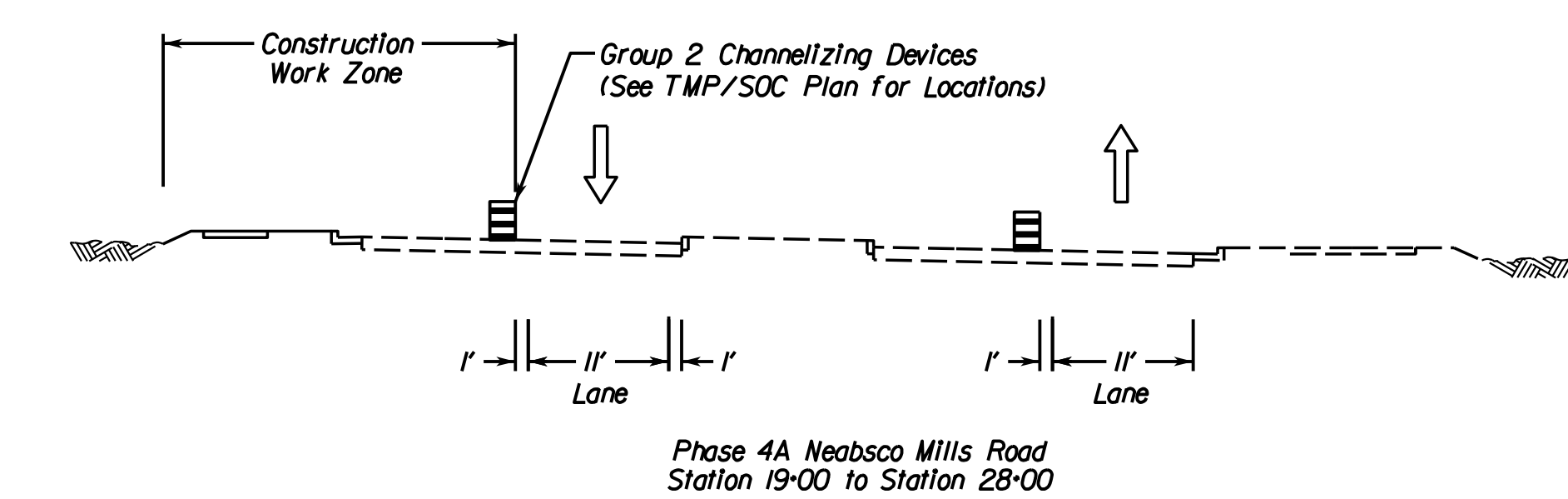
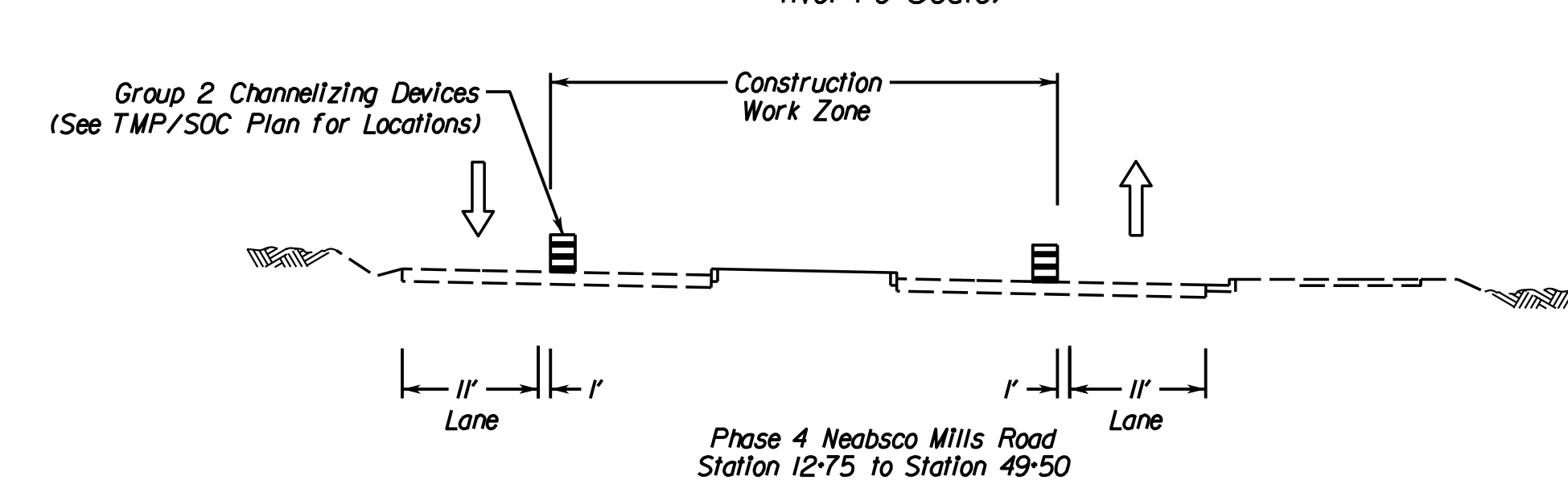


Temporary Widening Detail



- (A) 2.0" ASPHALT CONCRETE - TYPE 1M-19.0A
- (B) 3.0" ASPHALT CONCRETE - TYPE 1M-25.0A
- (C) 6.0" AGGREGATE, BASE MATERIAL, TYPE 1, SIZE NO. 21B

PHASE 4 Posted Speed: 35 mph (Not To Scale)



Contractor to maintain private entrances during all phases of construction. Contractor shall maintain similar surface conditions as shown on roadway plans.

VDOT PROJECT NO. 0638-076-209 PWCDOT PROJECT NO. SPR2018-00271	SHEET NO. I/J(1)
---	---------------------

THESE PLANS ARE UNFINISHED AND UNAPPROVED AND ARE NOT TO BE USED FOR ANY TYPE OF CONSTRUCTION.

R/W PHASE PLANS

Rinker Design Associates, P.C.
Civil Engineering, Surveying, Land Planning, Transportation, Environmental, Right of Way Services

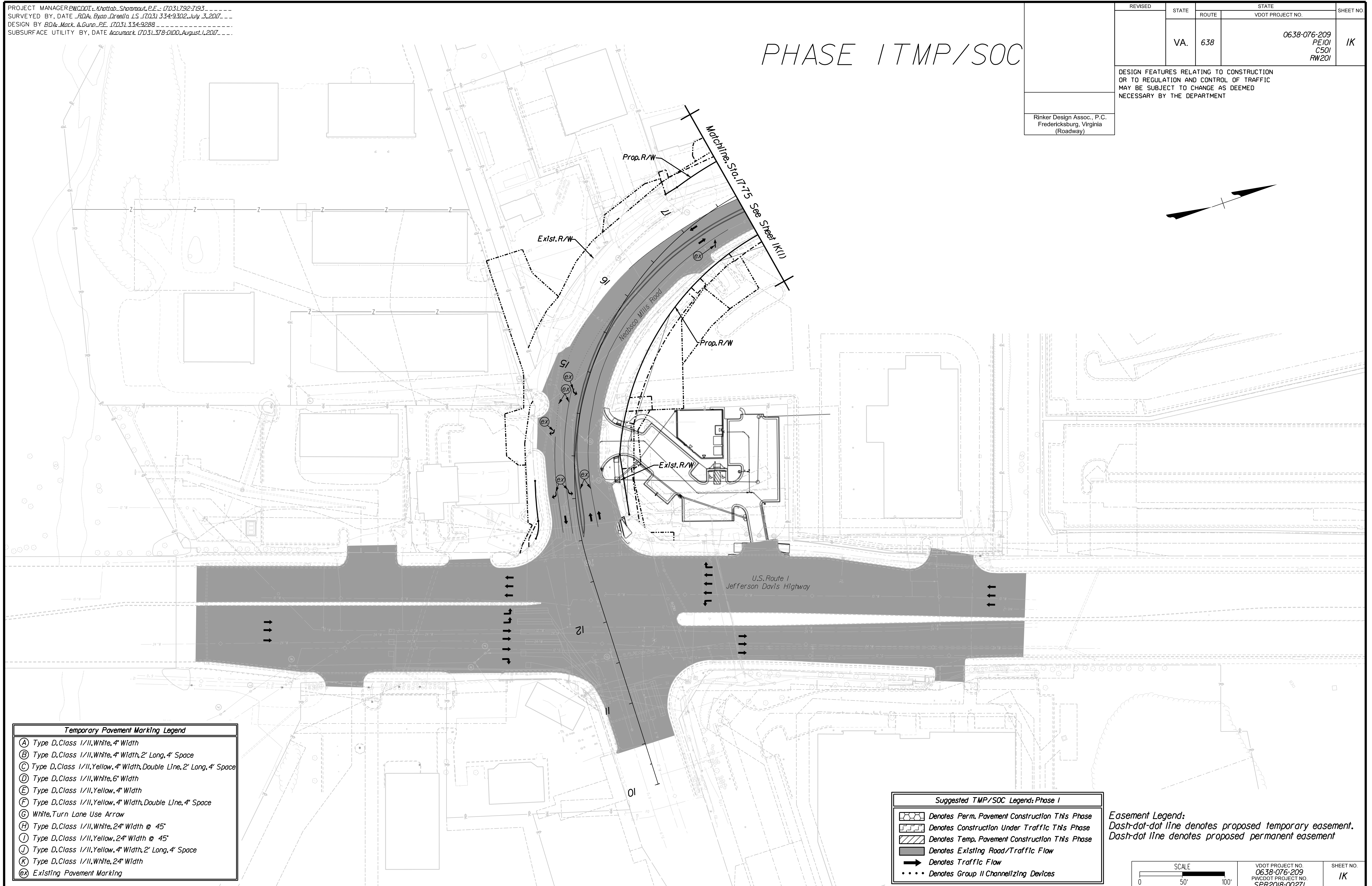
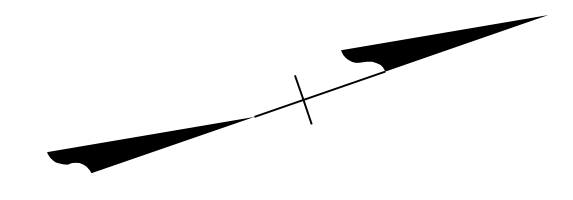
PROJECT MANAGER PWCDOT - Khattab, Shammout, P.E. : (703) 792-7193
SURVEYED BY, DATE RDA: Ryan Dreella, LS (703) 334-9302, July 3, 2017
DESIGN BY RDA: Mack, A. Gunn, P.E. (703) 334-9288
SUBSURFACE UTILITY BY, DATE Accurmark (703) 378-0100, August 1, 2017

PHASE I TMP/SOC

REVISED	STATE	STATE		SHEET NO.
	ROUTE	VDOT PROJECT NO.		
	VA.	638	0638-076-209 PE101 CS01 RW201	IK

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
(Roadway)



Rinker Design Associates, P.C.
 Civil Engineering, Surveying, Land Planning,
 Transportation, Environmental
 11000 University Blvd., Suite 200
 Fredericksburg, VA 22402
 Phone: (540) 371-1111
 Fax: (540) 371-1112
 www.rinker.com

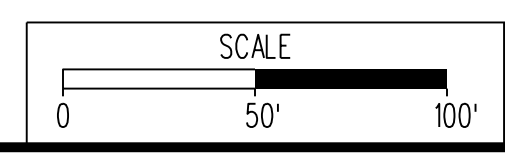
Temporary Pavement Marking Legend

(A)	Type D, Class 1/II, White, 4" Width
(B)	Type D, Class 1/II, White, 4" Width, 2' Long, 4' Space
(C)	Type D, Class 1/II, Yellow, 4" Width, Double Line, 2' Long, 4' Space
(D)	Type D, Class 1/II, White, 6" Width
(E)	Type D, Class 1/II, Yellow, 4" Width
(F)	Type D, Class 1/II, Yellow, 4" Width, Double Line, 4" Space
(G)	White, Turn Lane Use Arrow
(H)	Type D, Class 1/II, White, 24" Width @ 45°
(I)	Type D, Class 1/II, Yellow, 24" Width @ 45°
(J)	Type D, Class 1/II, Yellow, 4" Width, 2' Long, 4' Space
(K)	Type D, Class 1/II, White, 24" Width
(X)	Existing Pavement Marking

Suggested TMP/SOC Legend: Phase I

	Denotes Perm. Pavement Construction This Phase
	Denotes Construction Under Traffic This Phase
	Denotes Temp. Pavement Construction This Phase
	Denotes Existing Road/Traffic Flow
	Denotes Traffic Flow
	Denotes Group II Channellizing Devices

Easement Legend:
Dash-dot-dot line denotes proposed temporary easement.
Dash-dot line denotes proposed permanent easement



VDOT PROJECT NO. 0638-076-209 PWCDOT PROJECT NO. SPR2018-00271	SHEET NO. IK
---	-----------------

THESE PLANS ARE UNFINISHED AND UNAPPROVED AND ARE NOT TO BE USED FOR ANY TYPE OF CONSTRUCTION.

R/W PHASE PLANS

PROJECT MANAGER PWCDOT - Khattab, Shamout, P.E. : (703) 792-7193
SURVEYED BY, DATE RDA: Ryan Dreella, LS (703) 334-9302, July 3, 2017
DESIGN BY RDA: Mack, A. Gunn, P.E. (703) 334-9288
SUBSURFACE UTILITY BY, DATE Accurmark (703) 378-0100, August 1, 2017

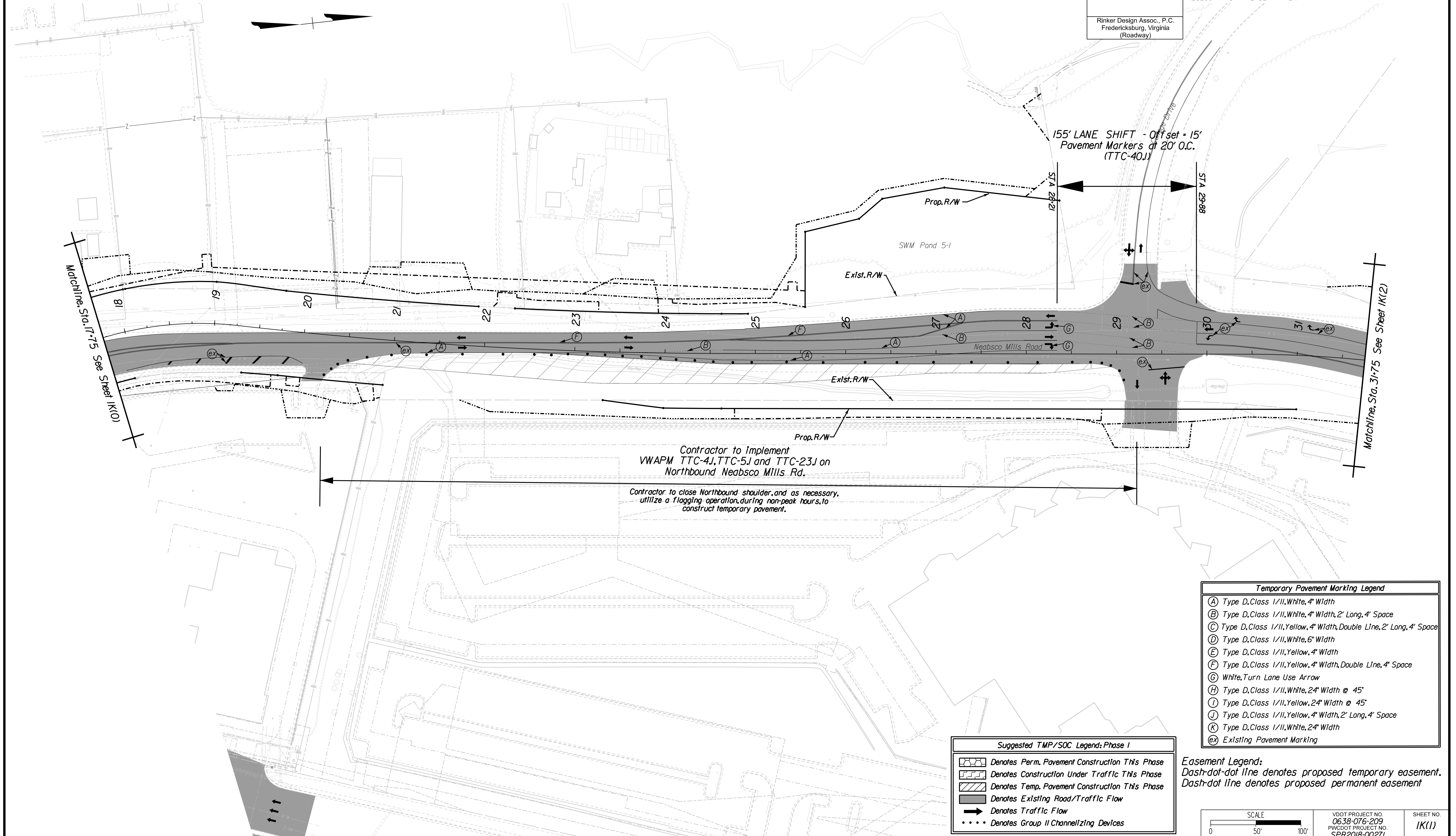
REVISED	STATE	ROUTE	STATE	VDOT PROJECT NO.	SHEET NO.
	VA.	638		0638-076-209 PE101 CS01 RW201	IK(1)

PHASE I TMP/SOC

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
(Roadway)

www.Rinker.com
Rinker Design Associates, P.C.
Civil Engineering, Surveying, Land Planning, Transportation, Environmental, Right of Way Services



Contractor to implement VWAPM TTC-4J, TTC-5J and TTC-23J on Northbound Neabsco Mills Rd.

Contractor to close Northbound shoulder, and as necessary, utilize a flagging operation, during non-peak hours, to construct temporary pavement.

Temporary Pavement Marking Legend

- (A) Type D, Class 1/II, White, 4" Width
- (B) Type D, Class 1/II, White, 4" Width, 2' Long, 4' Space
- (C) Type D, Class 1/II, Yellow, 4" Width, Double Line, 2' Long, 4' Space
- (D) Type D, Class 1/II, White, 6" Width
- (E) Type D, Class 1/II, Yellow, 4" Width
- (F) Type D, Class 1/II, Yellow, 4" Width, Double Line, 4' Space
- (G) White, Turn Lane Use Arrow
- (H) Type D, Class 1/II, White, 24" Width @ 45°
- (I) Type D, Class 1/II, Yellow, 24" Width @ 45°
- (J) Type D, Class 1/II, Yellow, 4" Width, 2' Long, 4' Space
- (K) Type D, Class 1/II, White, 24" Width
- (ex) Existing Pavement Marking

Suggested TMP/SOC Legend: Phase I

- Denotes Perm. Pavement Construction This Phase
- Denotes Construction Under Traffic This Phase
- Denotes Temp. Pavement Construction This Phase
- Denotes Existing Road/Traffic Flow
- Denotes Traffic Flow
- Denotes Group II Channelizing Devices

Easement Legend:
Dash-dot-dot line denotes proposed temporary easement.
Dash-dot line denotes proposed permanent easement

SCALE 0 50 100'	VDOT PROJECT NO. 0638-076-209 PWCDOT PROJECT NO. SPR2018-00271	SHEET NO. IK(1)
--------------------	---	--------------------

THESE PLANS ARE UNFINISHED AND UNAPPROVED AND ARE NOT TO BE USED FOR ANY TYPE OF CONSTRUCTION.

R/W PHASE PLANS

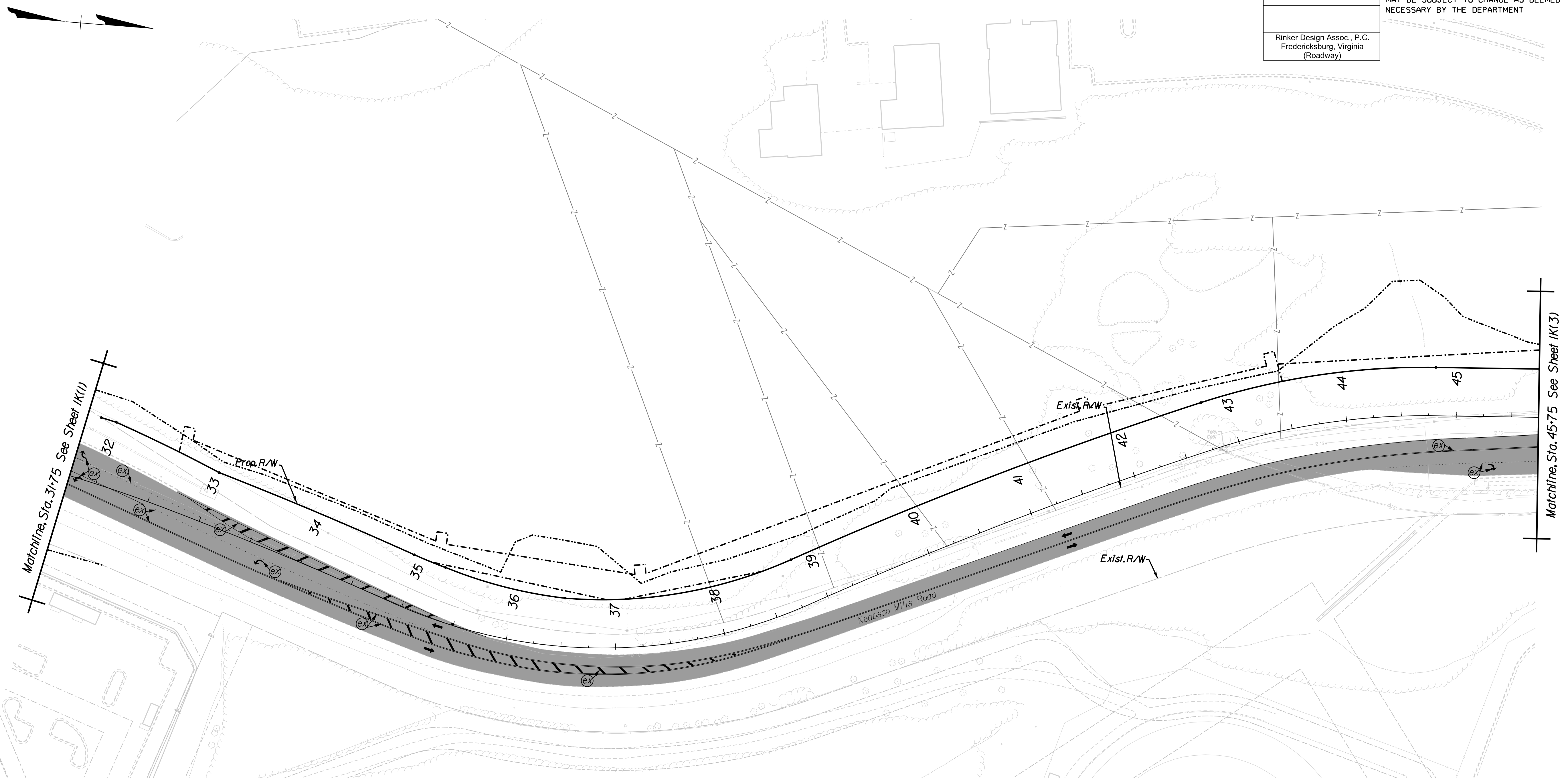
PROJECT MANAGER PWCDOT - Khattab, Shammout, P.E. : (703) 792-7193
SURVEYED BY, DATE RDA: Ryan Dreel/a.L.S. (703) 334-9302, July 3, 2017
DESIGN BY RDA: Mack, A. Gunn, P.E. (703) 334-9288
SUBSURFACE UTILITY BY, DATE Accumark (703) 378-0100, August 1, 2017

REVISED	STATE	ROUTE	STATE	VDOT PROJECT NO.	SHEET NO.
	VA.	638		0638-076-209	IK(2)
					PE/01 CS/01 RW/201

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
(Roadway)

PHASE I TMP/SOC



Rinker
 Design Associates, P.C.
 Civil Engineering, Surveying, Land Planning,
 Transportation, Environmental,
 Right of Way Services

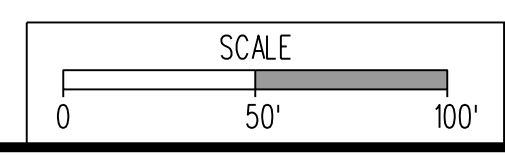
Temporary Pavement Marking Legend

(A)	Type D, Class 1/II, White, 4" Width
(B)	Type D, Class 1/II, White, 4" Width, 2' Long, 4' Space
(C)	Type D, Class 1/II, Yellow, 4" Width, Double Line, 2' Long, 4' Space
(D)	Type D, Class 1/II, White, 6" Width
(E)	Type D, Class 1/II, Yellow, 4" Width
(F)	Type D, Class 1/II, Yellow, 4" Width, Double Line, 4" Space
(G)	White, Turn Lane Use Arrow
(H)	Type D, Class 1/II, White, 24" Width @ 45°
(I)	Type D, Class 1/II, Yellow, 24" Width @ 45°
(J)	Type D, Class 1/II, Yellow, 4" Width, 2' Long, 4' Space
(K)	Type D, Class 1/II, White, 24" Width
(X)	Existing Pavement Marking

Suggested TMP/SOC Legend, Phase I

	Denotes Perm. Pavement Construction This Phase
	Denotes Construction Under Traffic This Phase
	Denotes Temp. Pavement Construction This Phase
	Denotes Existing Road/Traffic Flow
	Denotes Traffic Flow
	Denotes Group II Channelizing Devices

Easement Legend:
Dash-dot-dot line denotes proposed temporary easement.
Dash-dot line denotes proposed permanent easement



VDOT PROJECT NO. 0638-076-209 PWCDOT PROJECT NO. SPR2018-00271	SHEET NO. IK(2)
---	--------------------

THESE PLANS ARE UNFINISHED AND UNAPPROVED AND ARE NOT TO BE USED FOR ANY TYPE OF CONSTRUCTION.

R/W PHASE PLANS

PROJECT MANAGER PWCDOT - Khattab, Shammout, P.E. (703) 792-7193
SURVEYED BY, DATE RDA - Ryan, Dreel/a, L.S. (703) 334-9302, July 3, 2017
DESIGN BY RDA - Mack, A. Gunn, P.E. (703) 334-9288
SUBSURFACE UTILITY BY, DATE Accumark (703) 378-0100, August 1, 2017

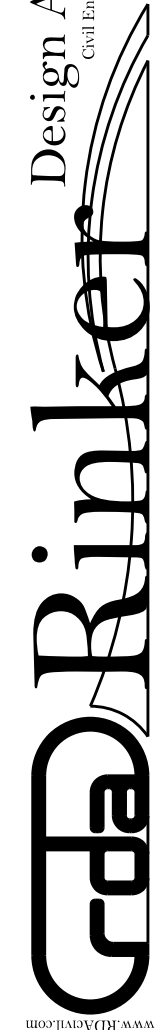
REVISED	STATE	ROUTE	STATE	VDOT PROJECT NO.	SHEET NO.
	VA.	638		0638-076-209 PE101 CS01 RW201	1K(3)

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

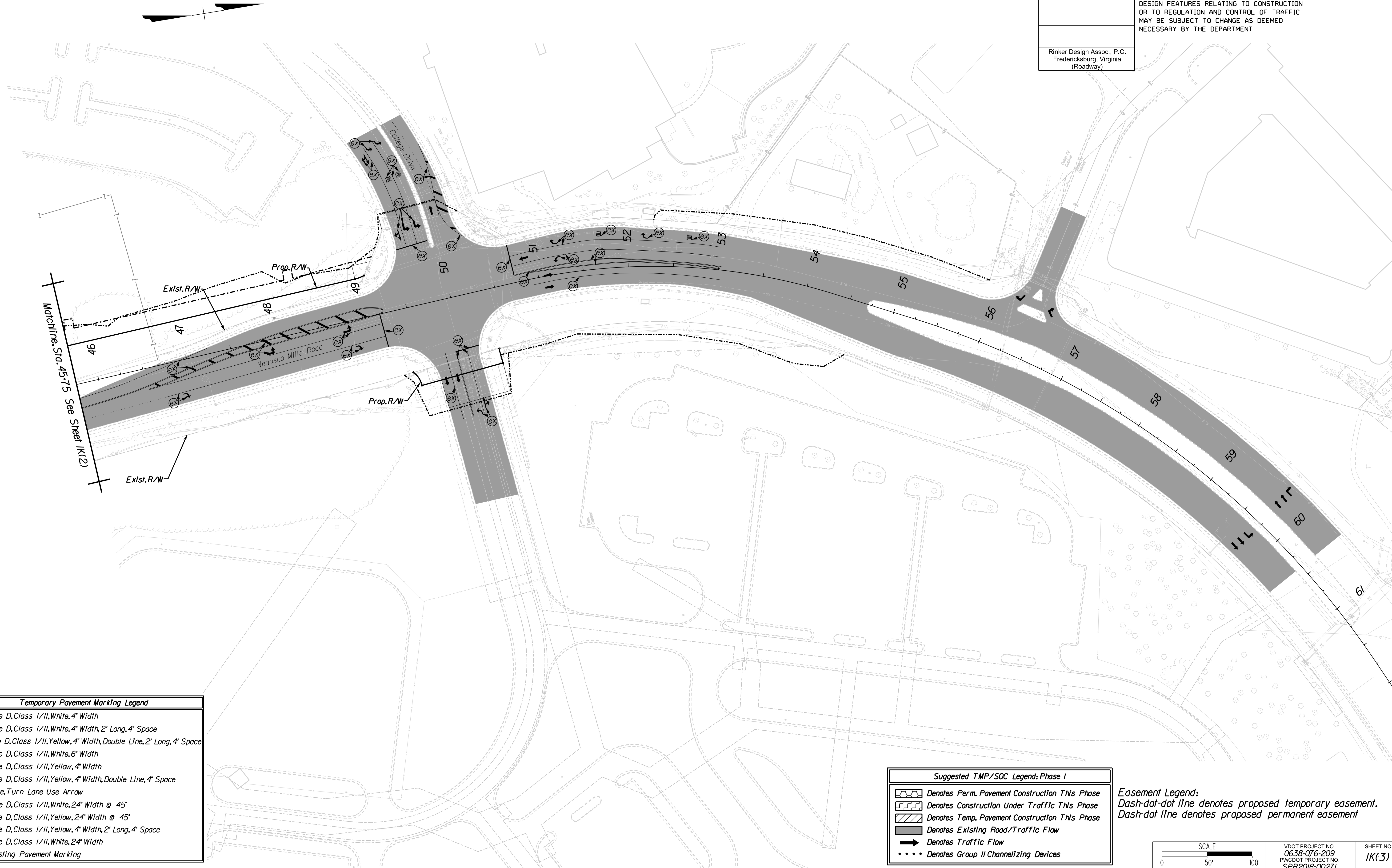
Rinker Design Assoc., P.C.
Fredericksburg, Virginia
(Roadway)

PHASE I TMP/SOC

Rinker Design Associates, P.C.
Civil Engineering, Surveying, Land Planning, Transportation, Environmental, Right of Way Services



5/2/2019



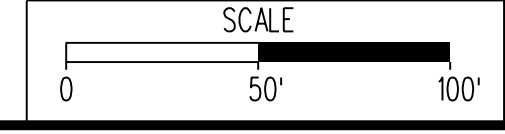
Temporary Pavement Marking Legend

(A)	Type D, Class 1/II, White, 4" Width
(B)	Type D, Class 1/II, White, 4" Width, 2' Long, 4' Space
(C)	Type D, Class 1/II, Yellow, 4" Width, Double Line, 2' Long, 4' Space
(D)	Type D, Class 1/II, White, 6" Width
(E)	Type D, Class 1/II, Yellow, 4" Width
(F)	Type D, Class 1/II, Yellow, 4" Width, Double Line, 4" Space
(G)	White, Turn Lane Use Arrow
(H)	Type D, Class 1/II, White, 24" Width @ 45°
(I)	Type D, Class 1/II, Yellow, 24" Width @ 45°
(J)	Type D, Class 1/II, Yellow, 4" Width, 2' Long, 4' Space
(K)	Type D, Class 1/II, White, 24" Width
(X)	Existing Pavement Marking

Suggested TMP/SOC Legend: Phase I

	Denotes Perm. Pavement Construction This Phase
	Denotes Construction Under Traffic This Phase
	Denotes Temp. Pavement Construction This Phase
	Denotes Existing Road/Traffic Flow
	Denotes Traffic Flow
	Denotes Group II Channelizing Devices

Easement Legend:
Dash-dot-dot line denotes proposed temporary easement.
Dash-dot line denotes proposed permanent easement



VDOT PROJECT NO. 0638-076-209	SHEET NO. 1K(3)
PWCDOT PROJECT NO. SPR2018-00271	

THESE PLANS ARE UNFINISHED AND UNAPPROVED AND ARE NOT TO BE USED FOR ANY TYPE OF CONSTRUCTION.

R/W PHASE PLANS

PROJECT MANAGER: PWCDOT - Khattab, Shammout, P.E. (703) 792-7193
SURVEYED BY, DATE: RDA: Ryan Dreel/a.L.S. (703) 334-9302, July 3, 2017
DESIGN BY: RDA: Mack, A. Gunn, P.E. (703) 334-9288
SUBSURFACE UTILITY BY, DATE: Accurmark (703) 378-0100, August 1, 2017

REVISED	STATE	ROUTE	STATE	VDOT PROJECT NO.	SHEET NO.
	VA.	638		0638-076-209 PE101 CS01 RW201	1L

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

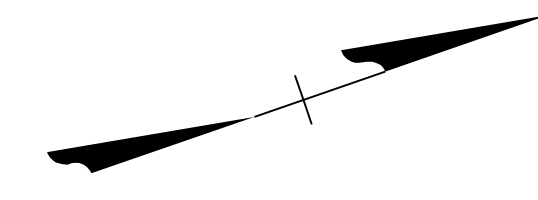
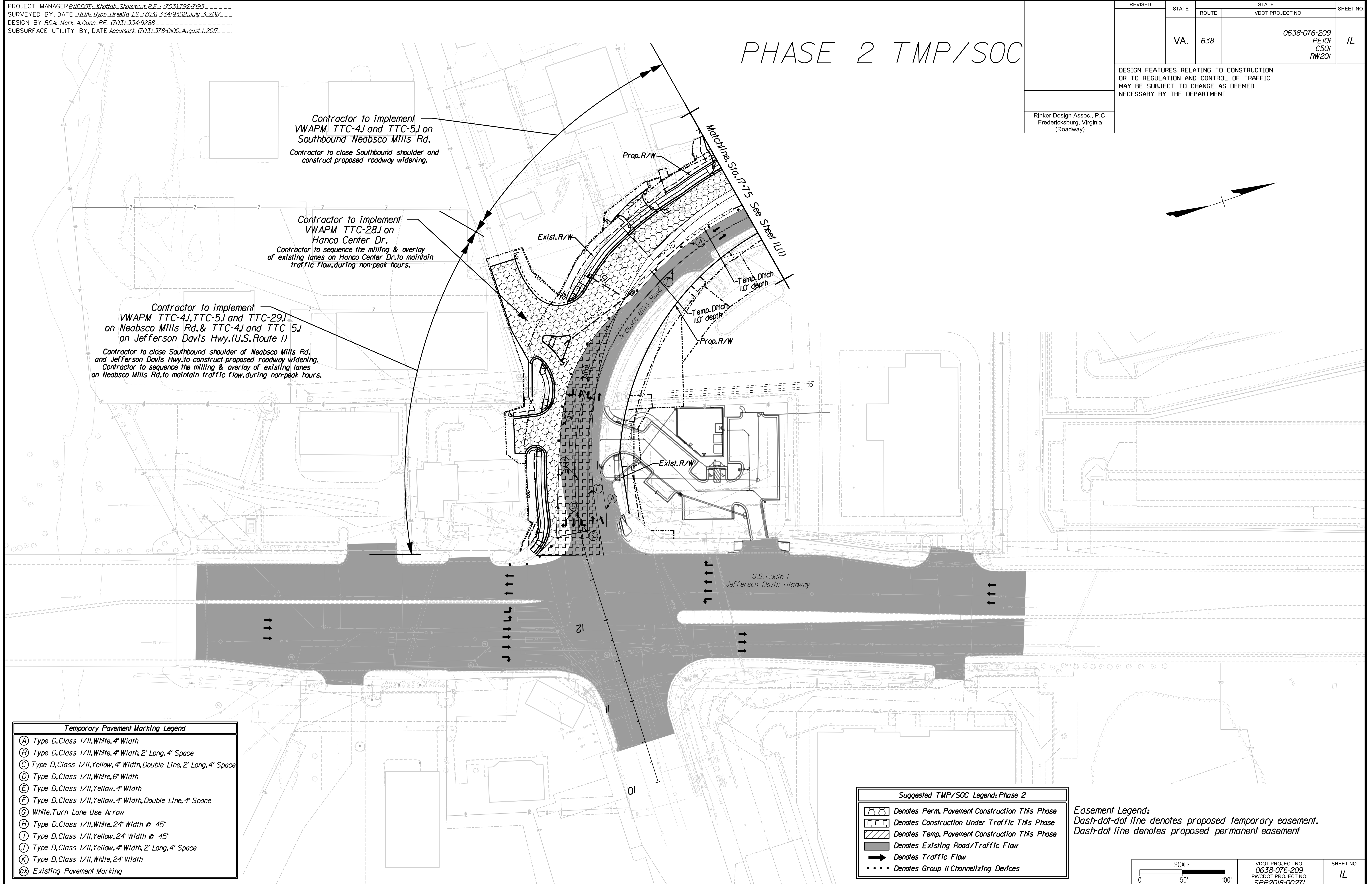
Rinker Design Assoc., P.C.
Fredericksburg, Virginia
(Roadway)

PHASE 2 TMP/SOC

Contractor to implement VWAPM TTC-4J and TTC-5J on Southbound Neabsco Mills Rd.
Contractor to close Southbound shoulder and construct proposed roadway widening.

Contractor to implement VWAPM TTC-28J on Hanco Center Dr.
Contractor to sequence the milling & overlay of existing lanes on Hanco Center Dr. to maintain traffic flow during non-peak hours.

Contractor to implement VWAPM TTC-4I, TTC-5J and TTC-29J on Neabsco Mills Rd. & TTC-4J and TTC-5J on Jefferson Davis Hwy. (U.S. Route 1)
Contractor to close Southbound shoulder of Neabsco Mills Rd. and Jefferson Davis Hwy. to construct proposed roadway widening.
Contractor to sequence the milling & overlay of existing lanes on Neabsco Mills Rd. to maintain traffic flow during non-peak hours.



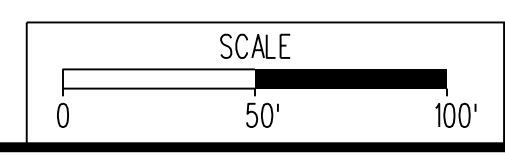
Temporary Pavement Marking Legend

(A)	Type D, Class 1/II, White, 4" Width
(B)	Type D, Class 1/II, White, 4" Width, 2' Long, 4' Space
(C)	Type D, Class 1/II, Yellow, 4" Width, Double Line, 2' Long, 4' Space
(D)	Type D, Class 1/II, White, 6" Width
(E)	Type D, Class 1/II, Yellow, 4" Width
(F)	Type D, Class 1/II, Yellow, 4" Width, Double Line, 4" Space
(G)	White, Turn Lane Use Arrow
(H)	Type D, Class 1/II, White, 24" Width @ 45°
(I)	Type D, Class 1/II, Yellow, 24" Width @ 45°
(J)	Type D, Class 1/II, Yellow, 4" Width, 2' Long, 4' Space
(K)	Type D, Class 1/II, White, 24" Width
(X)	Existing Pavement Marking

Suggested TMP/SOC Legend: Phase 2

	Denotes Perm. Pavement Construction This Phase
	Denotes Construction Under Traffic This Phase
	Denotes Temp. Pavement Construction This Phase
	Denotes Existing Road/Traffic Flow
	Denotes Traffic Flow
	Denotes Group II Channelizing Devices

Easement Legend:
Dash-dot-dot line denotes proposed temporary easement.
Dash-dot line denotes proposed permanent easement



VDOT PROJECT NO. 0638-076-209 PWCDOT PROJECT NO. SPR2018-00271	SHEET NO. 1L
---	-----------------

THESE PLANS ARE UNFINISHED AND UNAPPROVED AND ARE NOT TO BE USED FOR ANY TYPE OF CONSTRUCTION.

R/W PHASE PLANS

Rinker Design Associates, P.C.
Civil Engineering, Surveying, Land Planning, Transportation, Environmental, Right of Way Services

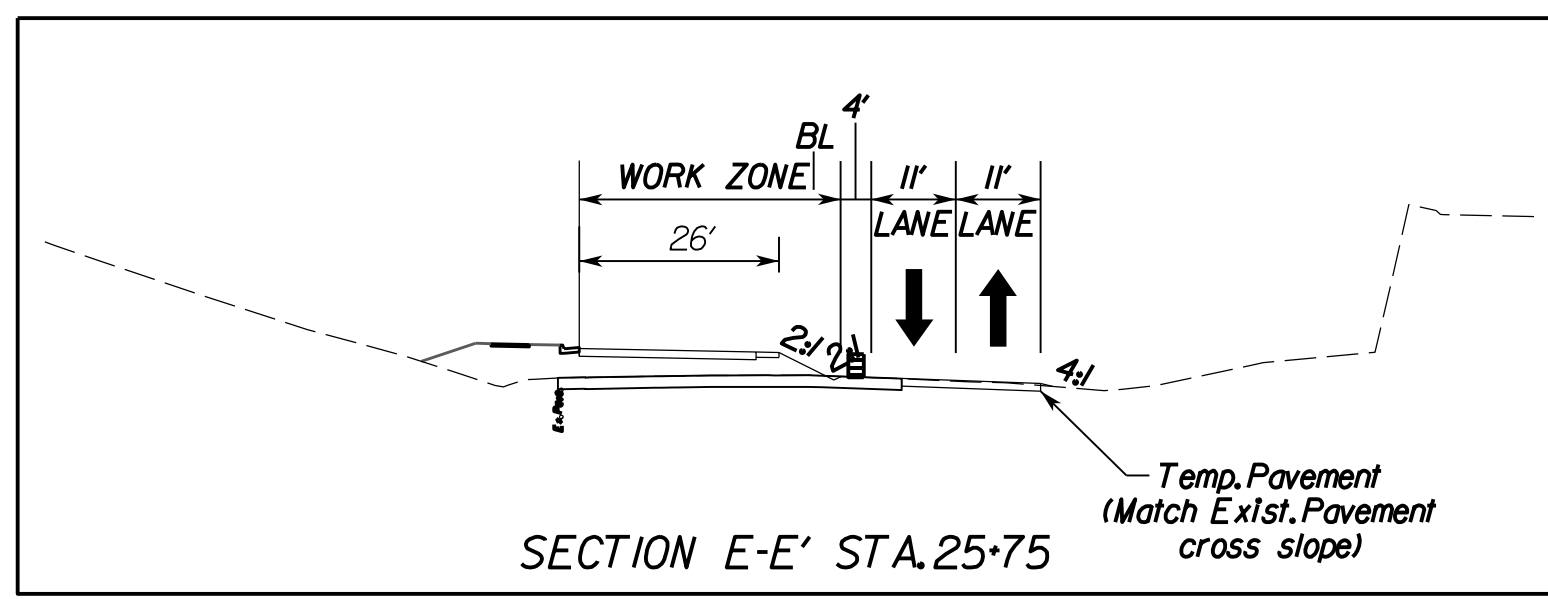
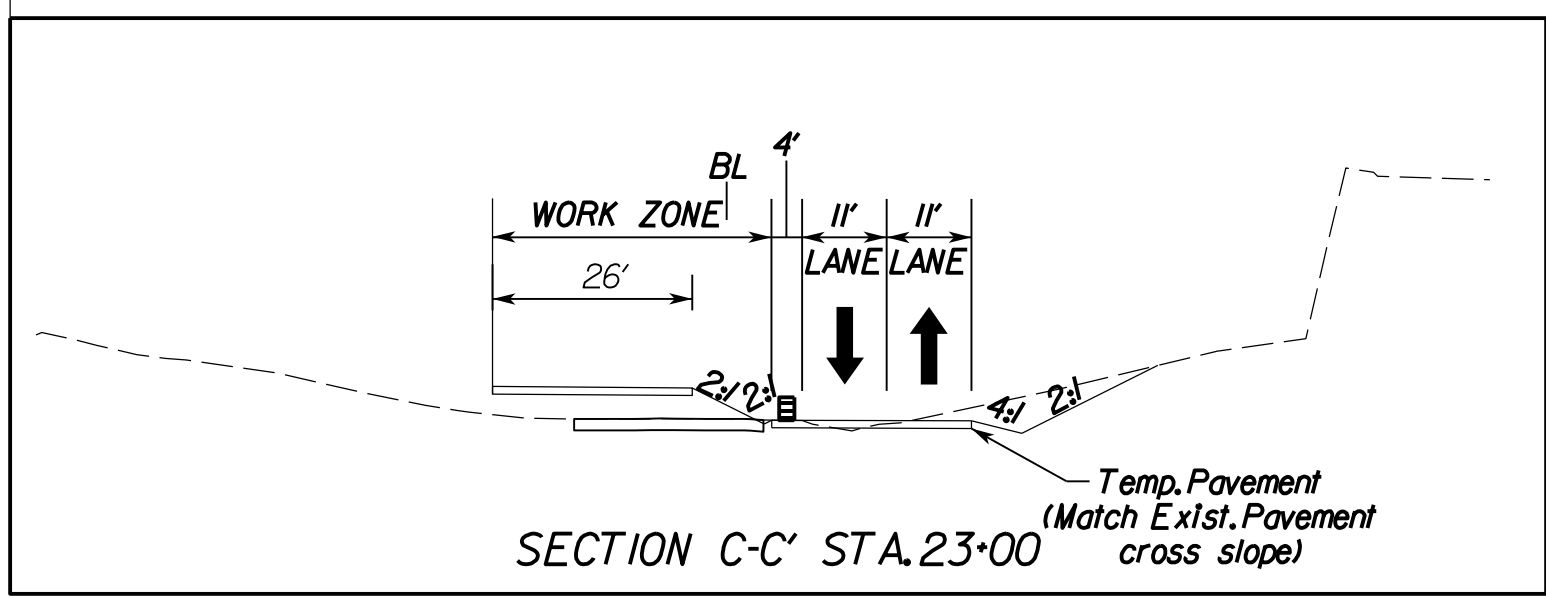
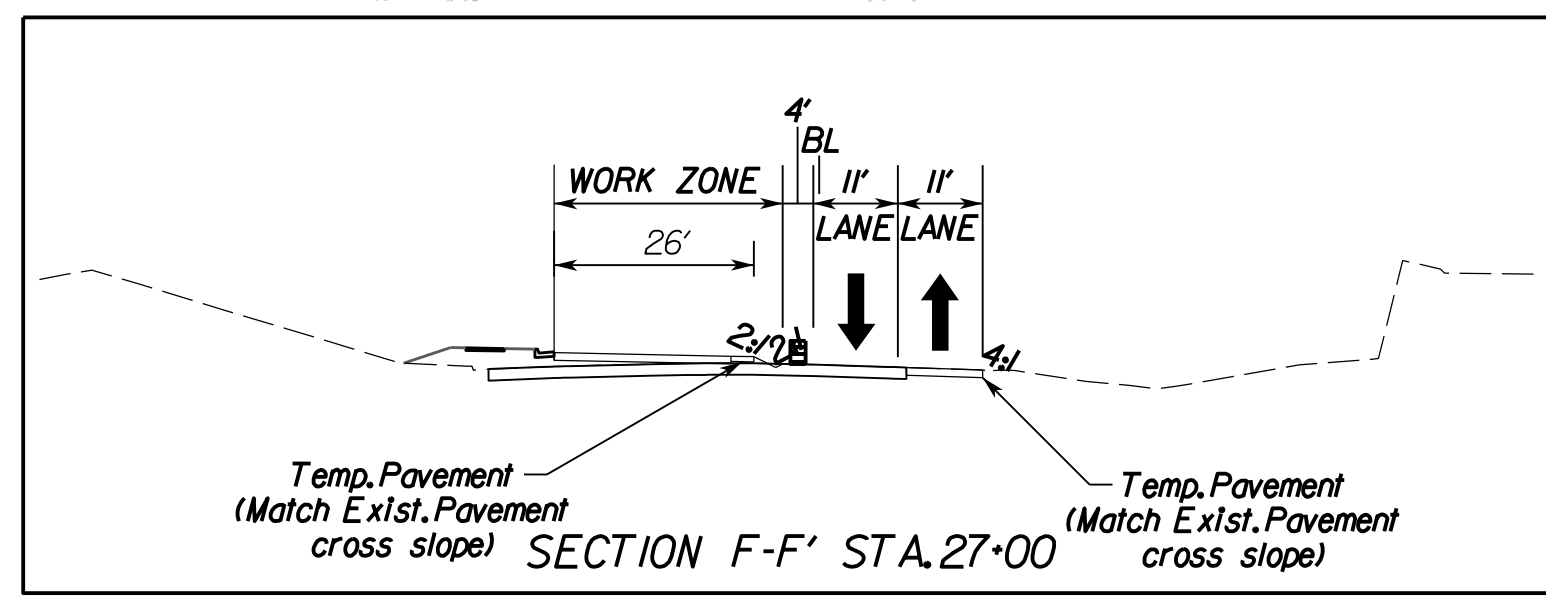
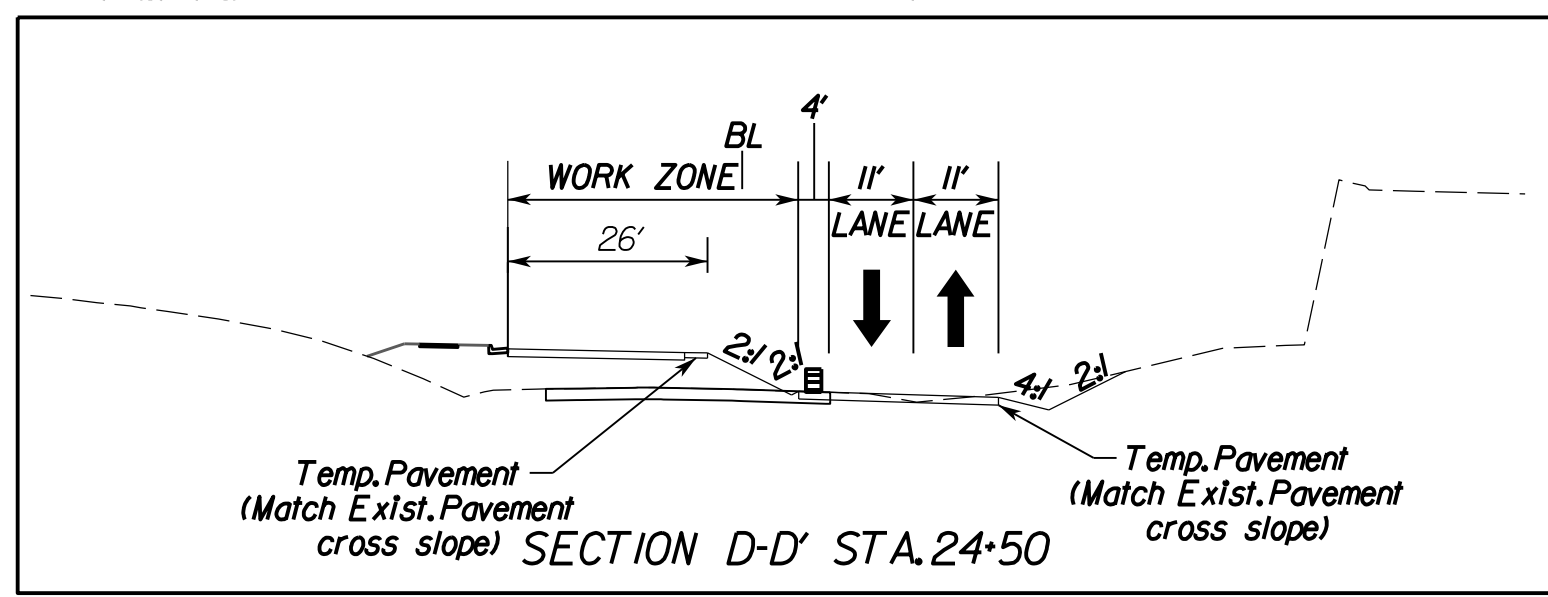
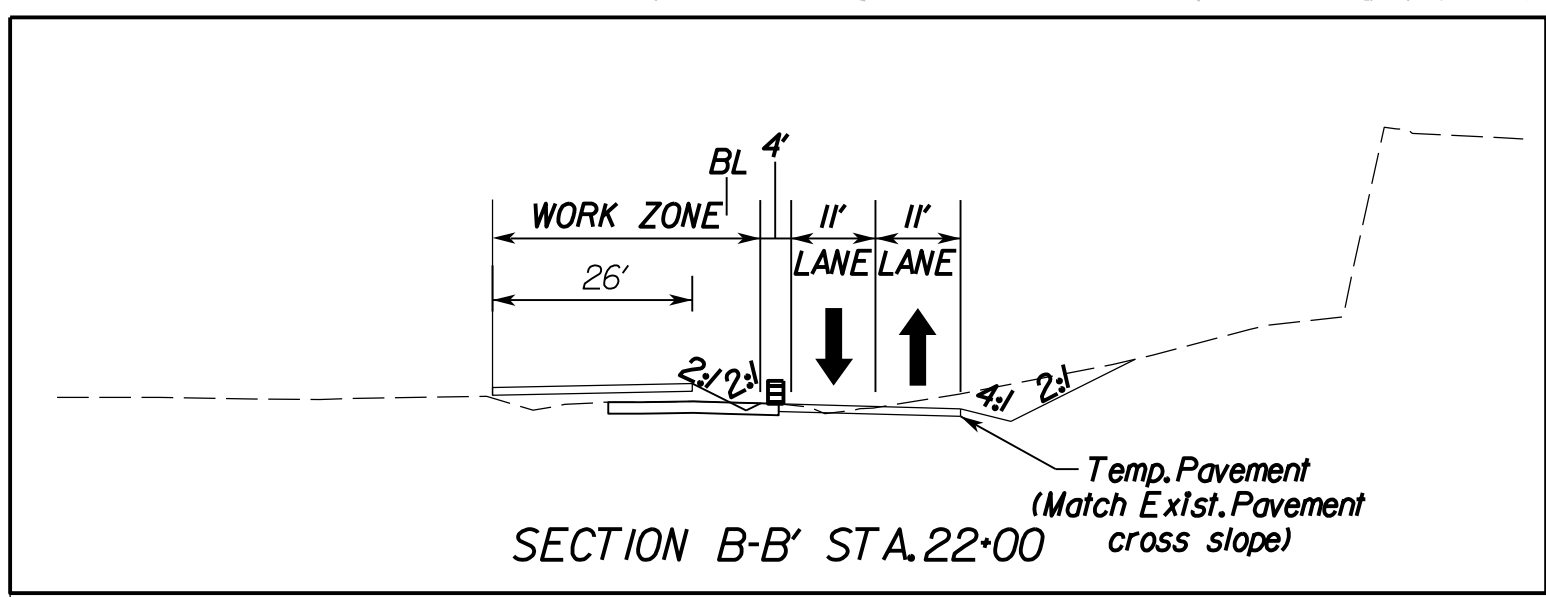
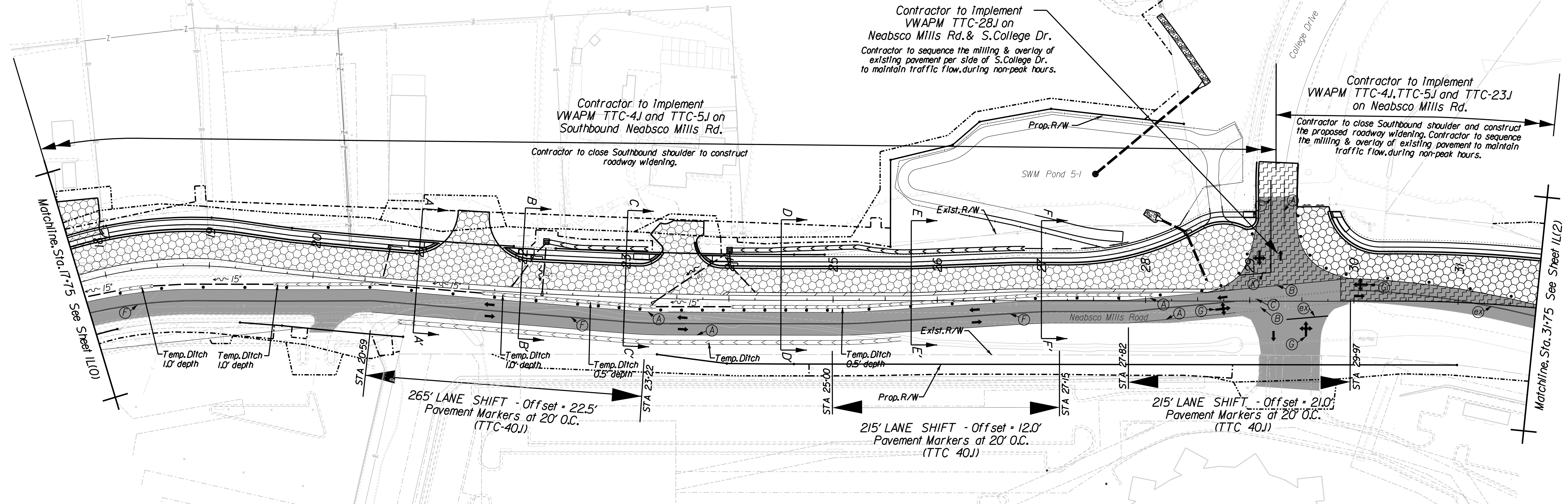
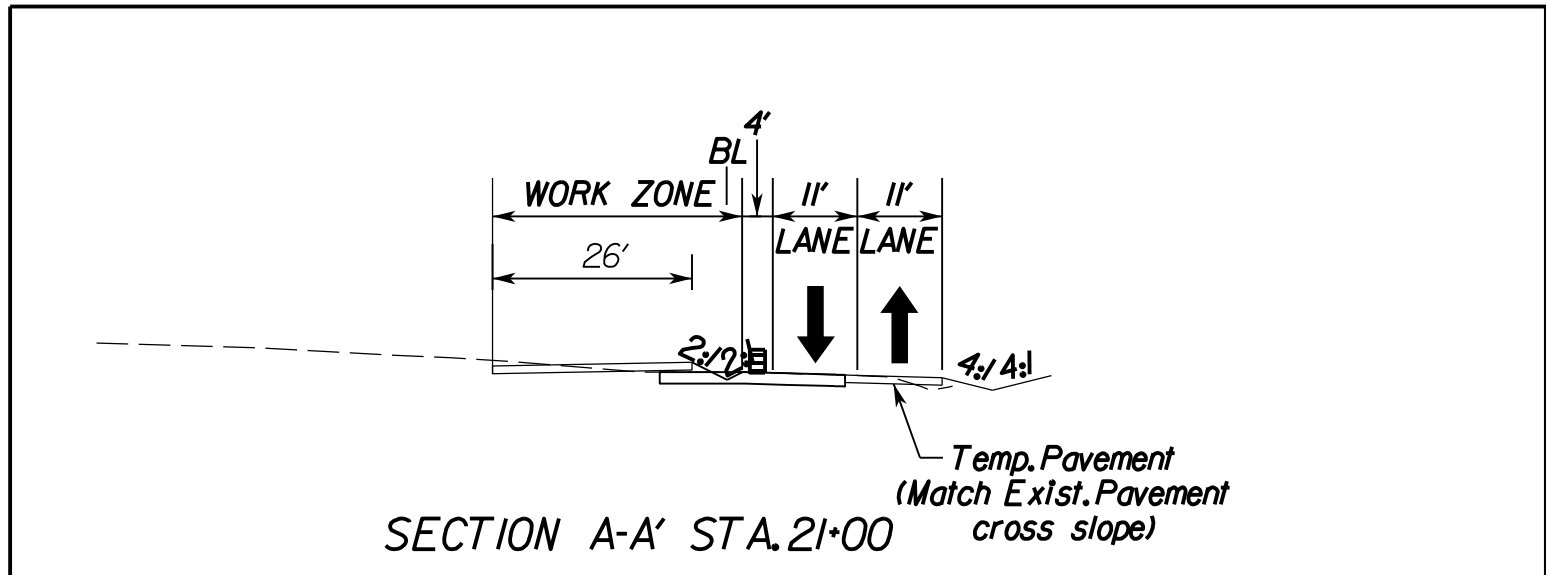
PROJECT MANAGER: EWCDOT - Khattab, Shammaout, P.E. : (703) 792-7193
SURVEYED BY, DATE: RDA: Bryan Dreel/a, LS (703) 334-9302, July 3, 2017
DESIGN BY: RDA: Mack, Gunn, P.E. (703) 334-9288
SUBSURFACE UTILITY BY, DATE: Accurmark (703) 378-0100, August 1, 2017

REVISED	STATE	ROUTE	STATE	VDOT PROJECT NO.	SHEET NO.
	VA.	638		0638-076-209 PE101 CS01 RW201	1L(1)

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
(Roadway)

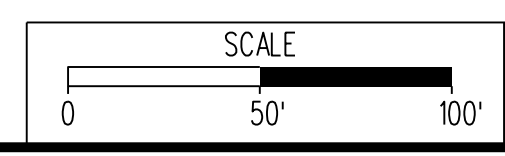
PHASE 2 TMP/SOC



Temporary Pavement Marking Legend	
(A)	Type D, Class 1/II, White, 4" Width
(B)	Type D, Class 1/II, White, 4" Width, 2' Long, 4' Space
(C)	Type D, Class 1/II, Yellow, 4" Width, Double Line, 2' Long, 4' Space
(D)	Type D, Class 1/II, White, 6" Width
(E)	Type D, Class 1/II, Yellow, 4" Width
(F)	Type D, Class 1/II, Yellow, 4" Width, Double Line, 4" Space
(G)	White, Turn Lane Use Arrow
(H)	Type D, Class 1/II, White, 24" Width @ 45'
(I)	Type D, Class 1/II, Yellow, 24" Width @ 45'
(J)	Type D, Class 1/II, Yellow, 4" Width, 2' Long, 4' Space
(K)	Type D, Class 1/II, White, 24" Width
(X)	Existing Pavement Marking

Suggested TMP/SOC Legend: Phase 2	
[Pattern]	Denotes Perm. Pavement Construction This Phase
[Pattern]	Denotes Construction Under Traffic This Phase
[Pattern]	Denotes Temp. Pavement Construction This Phase
[Pattern]	Denotes Existing Road/Traffic Flow
[Arrow]	Denotes Traffic Flow
[Dotted]	Denotes Group II Channelizing Devices

Easement Legend:
Dash-dot-dot line denotes proposed temporary easement.
Dash-dot line denotes proposed permanent easement



VDOT PROJECT NO. 0638-076-209 PWCDOT PROJECT NO. SPR2018-00271	SHEET NO. 1L(1)
---	--------------------

THESE PLANS ARE UNFINISHED AND UNAPPROVED AND ARE NOT TO BE USED FOR ANY TYPE OF CONSTRUCTION.

R/W PHASE PLANS

Rinker Design Associates, P.C.
Civil Engineering, Surveying, Land Planning, Environmental, Transportation, Right of Way Services

PROJECT MANAGER PWCDOT: Khattab, Shammout, P.E. (703) 792-7193
SURVEYED BY, DATE RDA: Ryan Dreelin, LS (703) 334-9302, July 3, 2017
DESIGN BY RDA: Mack, A. Gunn, P.E. (703) 334-9288
SUBSURFACE UTILITY BY, DATE Accurmark (703) 378-0100, August 1, 2017

REVISED	STATE	ROUTE	STATE	VDOT PROJECT NO.	SHEET NO.
	VA.	638		0638-076-209 PE101 CS01 RW201	IL(2)

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
(Roadway)

PHASE 2 TMP/SOC

Contractor to implement VWAPM TTC-4J, and TTC-5J and TTC-23J on Neabsco Mills Rd.

Contractor to close Southbound shoulder and construct the proposed roadway widening. Contractor to sequence the milling & overlay of existing pavement to maintain traffic flow during non-peak hours.

Contractor to implement VWAPM TTC-4J and TTC-5J on Southbound Neabsco Mills Rd.

Contractor to close Southbound shoulder and construct proposed roadway widening.

Matchline, Sta. 45+75 See Sheet IL(3)

Matchline, Sta. 31+75 See Sheet IL(1)

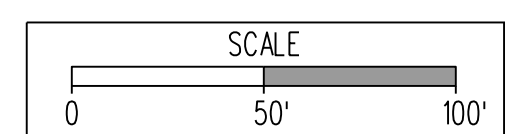
Temporary Pavement Marking Legend

(A)	Type D, Class 1/II, White, 4" Width
(B)	Type D, Class 1/II, White, 4" Width, 2' Long, 4' Space
(C)	Type D, Class 1/II, Yellow, 4" Width, Double Line, 2' Long, 4' Space
(D)	Type D, Class 1/II, White, 6" Width
(E)	Type D, Class 1/II, Yellow, 4" Width
(F)	Type D, Class 1/II, Yellow, 4" Width, Double Line, 4" Space
(G)	White, Turn Lane Use Arrow
(H)	Type D, Class 1/II, White, 24" Width @ 45°
(I)	Type D, Class 1/II, Yellow, 24" Width @ 45°
(J)	Type D, Class 1/II, Yellow, 4" Width, 2' Long, 4' Space
(K)	Type D, Class 1/II, White, 24" Width
(X)	Existing Pavement Marking

Suggested TMP/SOC Legend: Phase 2

	Denotes Perm. Pavement Construction This Phase
	Denotes Construction Under Traffic This Phase
	Denotes Temp. Pavement Construction This Phase
	Denotes Existing Road/Traffic Flow
	Denotes Traffic Flow
	Denotes Group II Channelizing Devices

Easement Legend:
Dash-dot-dot line denotes proposed temporary easement.
Dash-dot line denotes proposed permanent easement



VDOT PROJECT NO. 0638-076-209
PWCDOT PROJECT NO. SPR2018-00271
SHEET NO. IL(2)

THESE PLANS ARE UNFINISHED AND UNAPPROVED AND ARE NOT TO BE USED FOR ANY TYPE OF CONSTRUCTION.

R/W PHASE PLANS

Rinker Design Associates, P.C.
Civil Engineering, Surveying, Land Planning, Transportation, Environmental, Right-of-Way Services

PROJECT MANAGER: EWCDOT - Khattab, Shammaout, P.E. (703) 792-7193
SURVEYED BY, DATE: RDA: Bryan Dreel/a, LS (703) 334-9302, July 3, 2017
DESIGN BY: RDA: Mack, A. Gunn, P.E. (703) 334-9288
SUBSURFACE UTILITY BY, DATE: Accumark (703) 378-0100, August 1, 2017

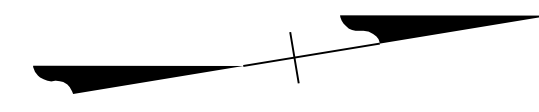
REVISED	STATE	ROUTE	STATE	VDOT PROJECT NO.	SHEET NO.
	VA.	638		0638-076-209 PE101 CS01 RW201	1L(3)

PHASE 2 TMP/SOC

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
(Roadway)

Rinker Design Associates, P.C.
Civil Engineering, Surveying, Land Planning, Transportation, Environmental, Right of Way Services



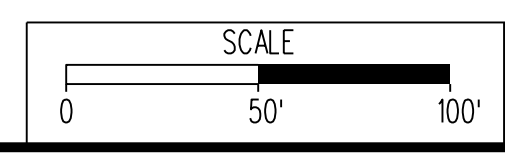
Temporary Pavement Marking Legend

(A)	Type D, Class 1/II, White, 4" Width
(B)	Type D, Class 1/II, White, 4" Width, 2' Long, 4' Space
(C)	Type D, Class 1/II, Yellow, 4" Width, Double Line, 2' Long, 4' Space
(D)	Type D, Class 1/II, White, 6" Width
(E)	Type D, Class 1/II, Yellow, 4" Width
(F)	Type D, Class 1/II, Yellow, 4" Width, Double Line, 4" Space
(G)	White, Turn Lane Use Arrow
(H)	Type D, Class 1/II, White, 24" Width @ 45°
(I)	Type D, Class 1/II, Yellow, 24" Width @ 45°
(J)	Type D, Class 1/II, Yellow, 4" Width, 2' Long, 4' Space
(K)	Type D, Class 1/II, White, 24" Width
(X)	Existing Pavement Marking

Suggested TMP/SOC Legend: Phase 2

	Denotes Perm. Pavement Construction This Phase
	Denotes Construction Under Traffic This Phase
	Denotes Temp. Pavement Construction This Phase
	Denotes Existing Road/Traffic Flow
	Denotes Traffic Flow
	Denotes Group II Channelizing Devices

Easement Legend:
Dash-dot-dot line denotes proposed temporary easement.
Dash-dot line denotes proposed permanent easement



VDOT PROJECT NO. 0638-076-209	SHEET NO. 1L(3)
PWCDOT PROJECT NO. SPR2018-00271	

THESE PLANS ARE UNFINISHED AND UNAPPROVED AND ARE NOT TO BE USED FOR ANY TYPE OF CONSTRUCTION.

R/W PHASE PLANS

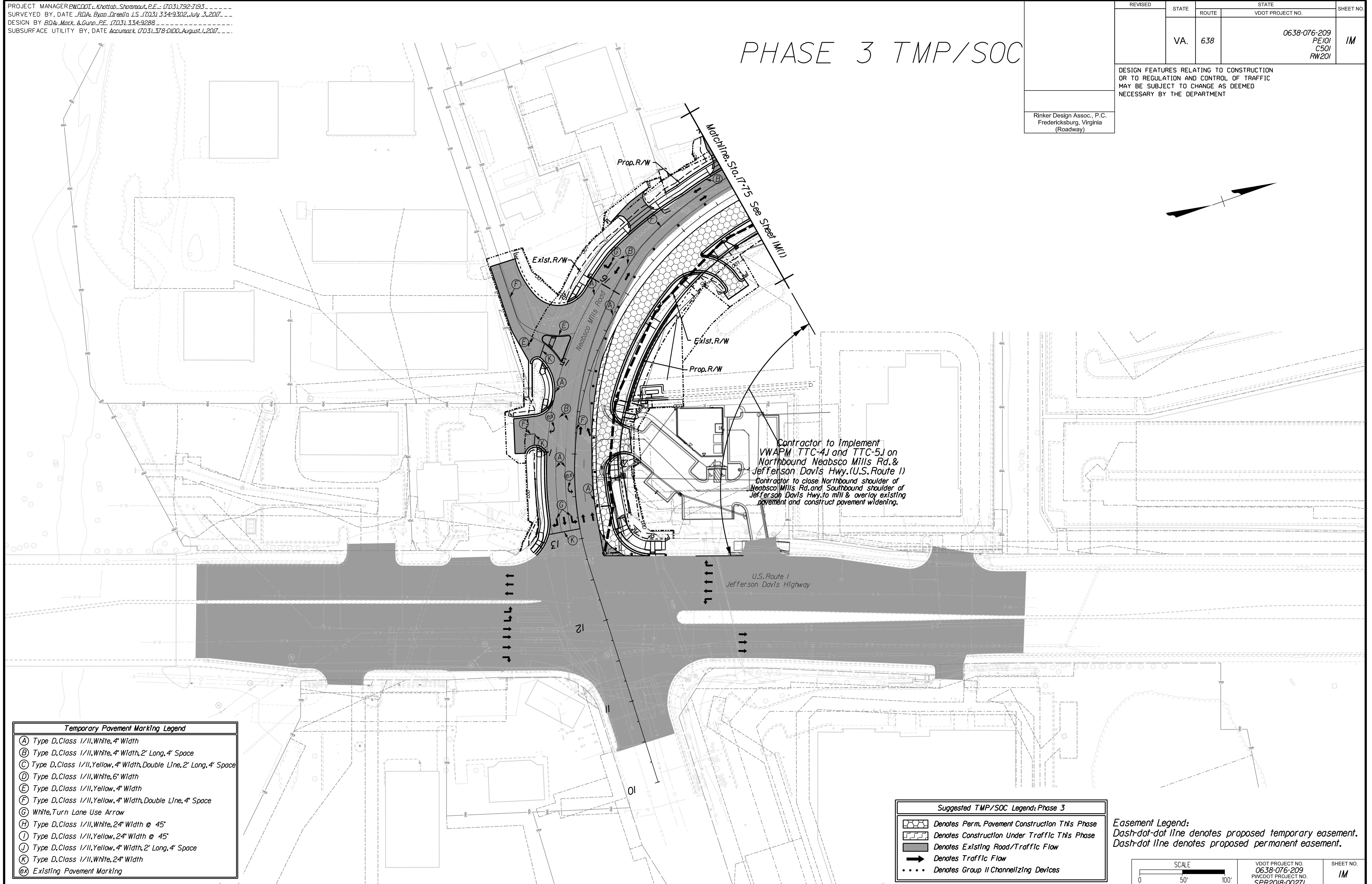
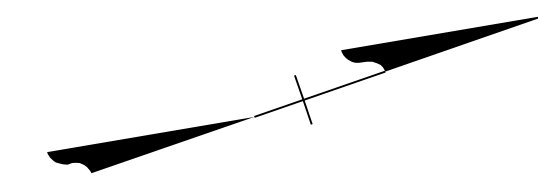
PROJECT MANAGER: PWCDOT - Khattab, Shammout, P.E. (703) 792-7193
 SURVEYED BY, DATE: RDA - Ryan Dreel/a.L.S. (703) 334-9302, July 3, 2017
 DESIGN BY: RDA - Mack, A. Gunn, P.E. (703) 334-9288
 SUBSURFACE UTILITY BY, DATE: Accurmark (703) 378-0100, August 1, 2017

PHASE 3 TMP/SOC

REVISED	STATE		STATE	SHEET NO.
	ROUTE	VDOT PROJECT NO.		
	VA.	638	0638-076-209 PE101 CS01 RW201	IM

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

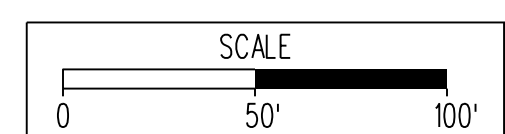
Rinker Design Assoc., P.C.
Fredericksburg, Virginia
(Roadway)



(A)	Type D, Class 1/II, White, 4" Width
(B)	Type D, Class 1/II, White, 4" Width, 2' Long, 4' Space
(C)	Type D, Class 1/II, Yellow, 4" Width, Double Line, 2' Long, 4' Space
(D)	Type D, Class 1/II, White, 6" Width
(E)	Type D, Class 1/II, Yellow, 4" Width
(F)	Type D, Class 1/II, Yellow, 4" Width, Double Line, 4" Space
(G)	White, Turn Lane Use Arrow
(H)	Type D, Class 1/II, White, 24" Width @ 45°
(I)	Type D, Class 1/II, Yellow, 24" Width @ 45°
(J)	Type D, Class 1/II, Yellow, 4" Width, 2' Long, 4' Space
(K)	Type D, Class 1/II, White, 24" Width
(X)	Existing Pavement Marking

	Denotes Perm. Pavement Construction This Phase
	Denotes Construction Under Traffic This Phase
	Denotes Existing Road/Traffic Flow
	Denotes Traffic Flow
	Denotes Group II Channelizing Devices

Easement Legend:
 Dash-dot-dot line denotes proposed temporary easement.
 Dash-dot line denotes proposed permanent easement.



VDOT PROJECT NO. 0638-076-209	SHEET NO. IM
PWCDOT PROJECT NO. SPR2018-00271	

THESE PLANS ARE UNFINISHED AND UNAPPROVED AND ARE NOT TO BE USED FOR ANY TYPE OF CONSTRUCTION.

R/W PHASE PLANS

Rinker Design Associates, P.C.
 Civil Engineering, Surveying, Land Planning,
 Transportation, Environmental,
 Right of Way Services

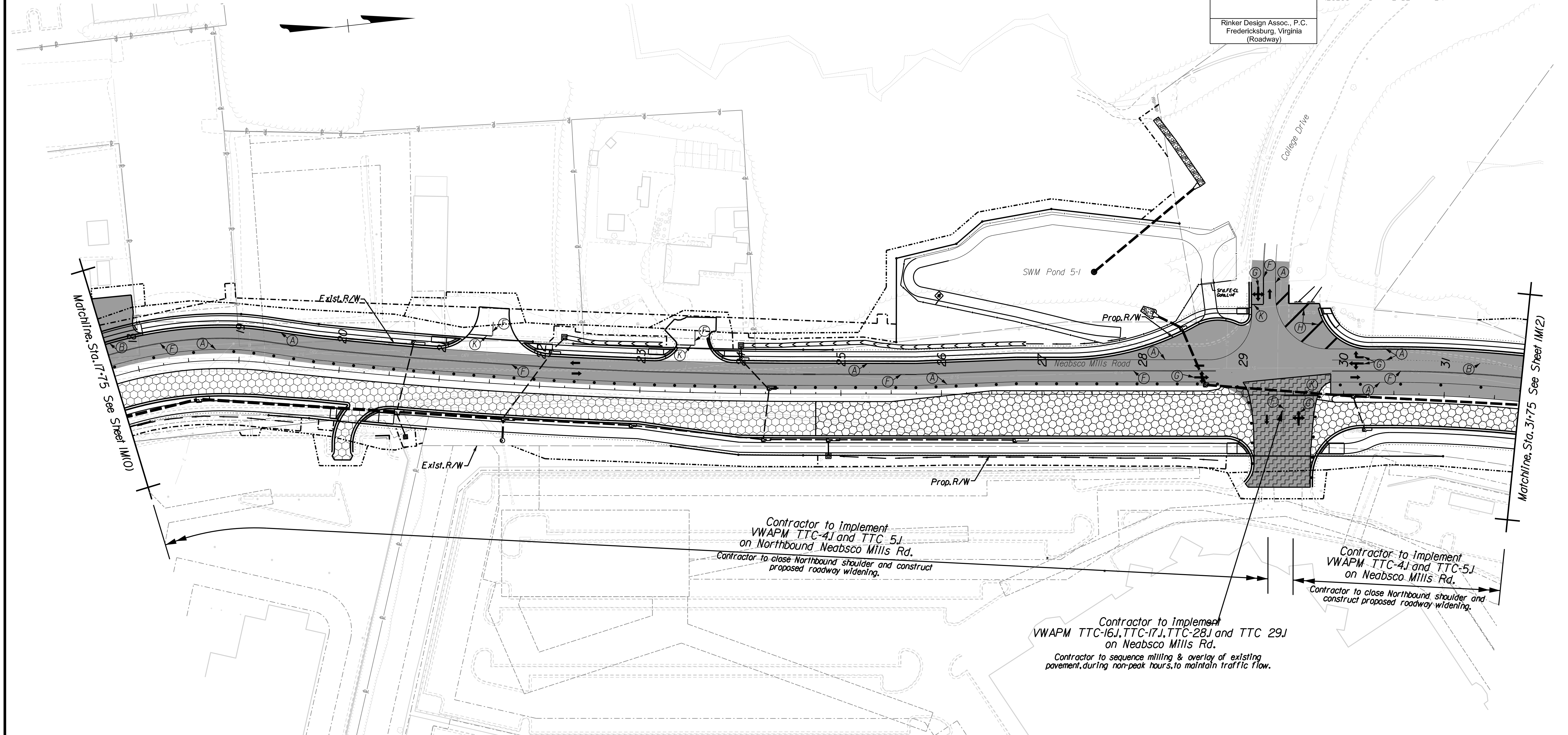
PROJECT MANAGER: EWCDOT - Khattab, Shammout, P.E. (703) 792-7193
SURVEYED BY, DATE: RDA, Bryan Dreel'a, L.S. (703) 334-9302, July 3, 2017
DESIGN BY: RDA, Mack, & Gunn, P.E. (703) 334-9288
SUBSURFACE UTILITY BY, DATE: Accurmark (703) 378-0100, August 1, 2017

REVISED	STATE	ROUTE	STATE	VDOT PROJECT NO.	SHEET NO.
	VA.	638		0638-076-209 PE101 CS01 RW201	IM(1)

PHASE 3 TMP/SOC

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
(Roadway)

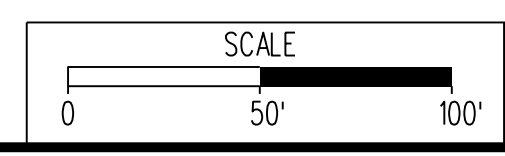


Rinker Design Associates, P.C.
 Civil Engineering, Surveying, Land Planning,
 Transportation, Environmental
 Right of Way Services

(A)	Type D, Class 1/II, White, 4" Width
(B)	Type D, Class 1/II, White, 4" Width, 2' Long, 4' Space
(C)	Type D, Class 1/II, Yellow, 4" Width, Double Line, 2' Long, 4' Space
(D)	Type D, Class 1/II, White, 6" Width
(E)	Type D, Class 1/II, Yellow, 4" Width
(F)	Type D, Class 1/II, Yellow, 4" Width, Double Line, 4" Space
(G)	White, Turn Lane Use Arrow
(H)	Type D, Class 1/II, White, 24" Width @ 45°
(I)	Type D, Class 1/II, Yellow, 24" Width @ 45°
(J)	Type D, Class 1/II, Yellow, 4" Width, 2' Long, 4' Space
(K)	Type D, Class 1/II, White, 24" Width
(X)	Existing Pavement Marking

	Denotes Perm. Pavement Construction This Phase
	Denotes Construction Under Traffic This Phase
	Denotes Existing Road/Traffic Flow
	Denotes Traffic Flow
	Denotes Group II Channelizing Devices

Easement Legend:
Dash-dot-dot line denotes proposed temporary easement.
Dash-dot line denotes proposed permanent easement.



VDOT PROJECT NO. 0638-076-209	SHEET NO. IM(1)
PWCDOT PROJECT NO. SPR2018-00271	

THESE PLANS ARE UNFINISHED AND UNAPPROVED AND ARE NOT TO BE USED FOR ANY TYPE OF CONSTRUCTION.

R/W PHASE PLANS

PROJECT MANAGER PWCDOT - Khattab, Shamout, P.E. : (703) 792-7193
SURVEYED BY, DATE RDA: Ryan Dreel/a, LS (703) 334-9302, July 3, 2017
DESIGN BY RDA: Mack, Gunn, P.E. (703) 334-9288
SUBSURFACE UTILITY BY, DATE Accumark (703) 378-0100, August 1, 2017

REVISED	STATE		STATE	SHEET NO.
	ROUTE	VDOT PROJECT NO.		
	VA.	638	0638-076-209 PE101 CS01 RW201	IM(2)

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
(Roadway)

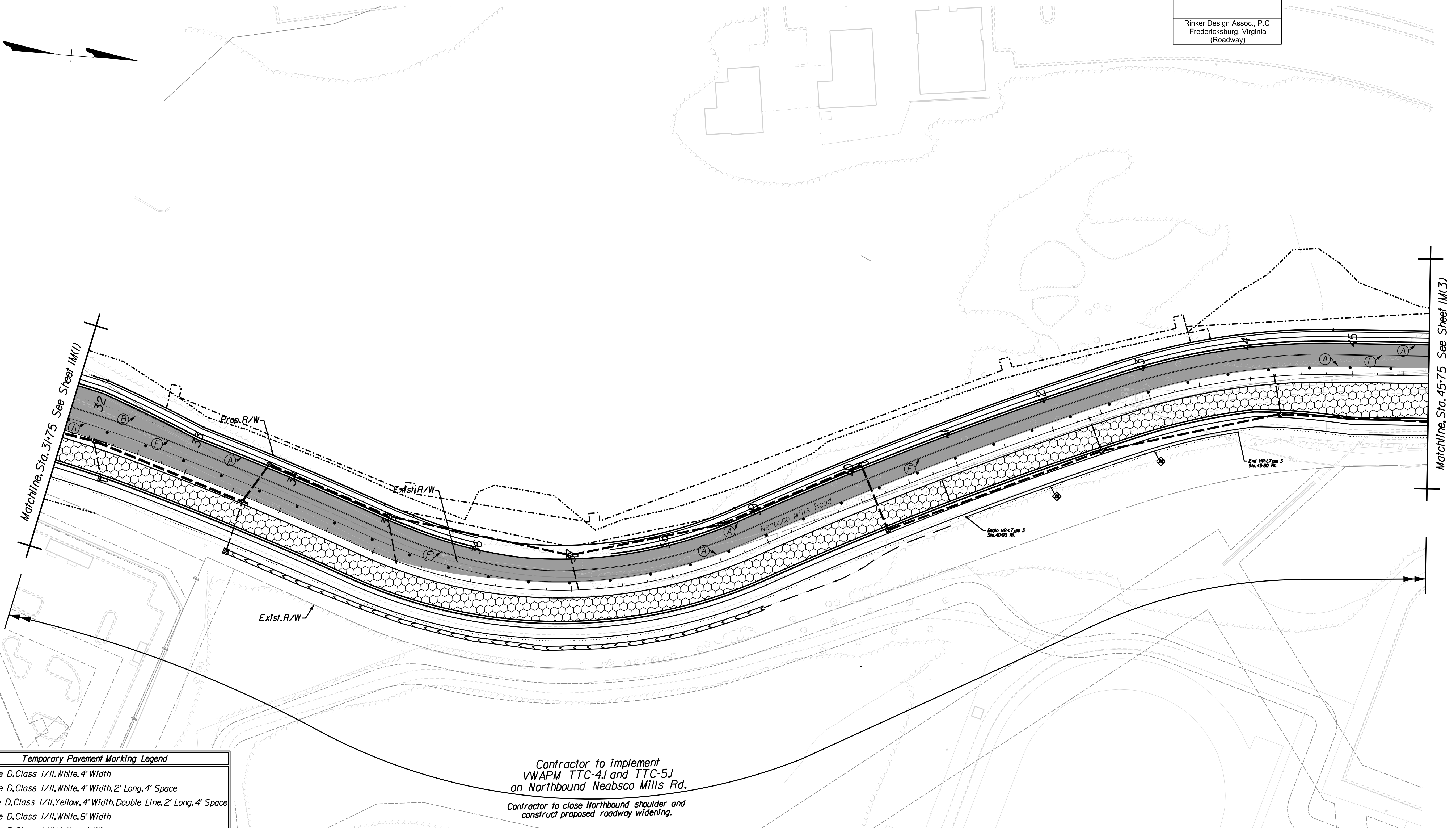
PHASE 3 TMP/SOC



Online Locations
10000 Riverside Blvd
Suite 1000
Fredericksburg, VA 22405
Phone: (540) 544-1100
Fax: (540) 544-1101

10000 Riverside Blvd
Suite 1000
Fredericksburg, VA 22405
Phone: (540) 544-1100
Fax: (540) 544-1101

10000 Riverside Blvd
Suite 1000
Fredericksburg, VA 22405
Phone: (540) 544-1100
Fax: (540) 544-1101



Temporary Pavement Marking Legend

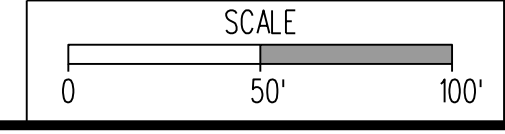
(A)	Type D, Class 1/II, White, 4" Width
(B)	Type D, Class 1/II, White, 4" Width, 2' Long, 4' Space
(C)	Type D, Class 1/II, Yellow, 4" Width, Double Line, 2' Long, 4' Space
(D)	Type D, Class 1/II, White, 6" Width
(E)	Type D, Class 1/II, Yellow, 4" Width
(F)	Type D, Class 1/II, Yellow, 4" Width, Double Line, 4" Space
(G)	White, Turn Lane Use Arrow
(H)	Type D, Class 1/II, White, 24" Width @ 45°
(I)	Type D, Class 1/II, Yellow, 24" Width @ 45°
(J)	Type D, Class 1/II, Yellow, 4" Width, 2' Long, 4' Space
(K)	Type D, Class 1/II, White, 24" Width
(X)	Existing Pavement Marking

Contractor to Implement
VWAPM TTC-4J and TTC-5J
on Northbound Neabsco Mills Rd.
Contractor to close Northbound shoulder and
construct proposed roadway widening.

Suggested TMP/SOC Legend, Phase 3

	Denotes Perm. Pavement Construction This Phase
	Denotes Construction Under Traffic This Phase
	Denotes Existing Road/Traffic Flow
	Denotes Traffic Flow
	Denotes Group II Channelizing Devices

Easement Legend:
Dash-dot-dot line denotes proposed temporary easement.
Dash-dot line denotes proposed permanent easement.



VDOT PROJECT NO. 0638-076-209	SHEET NO. IM(2)
PWCDOT PROJECT NO. SPR2018-00271	

THESE PLANS ARE UNFINISHED AND UNAPPROVED AND ARE NOT TO BE USED FOR ANY TYPE OF CONSTRUCTION.

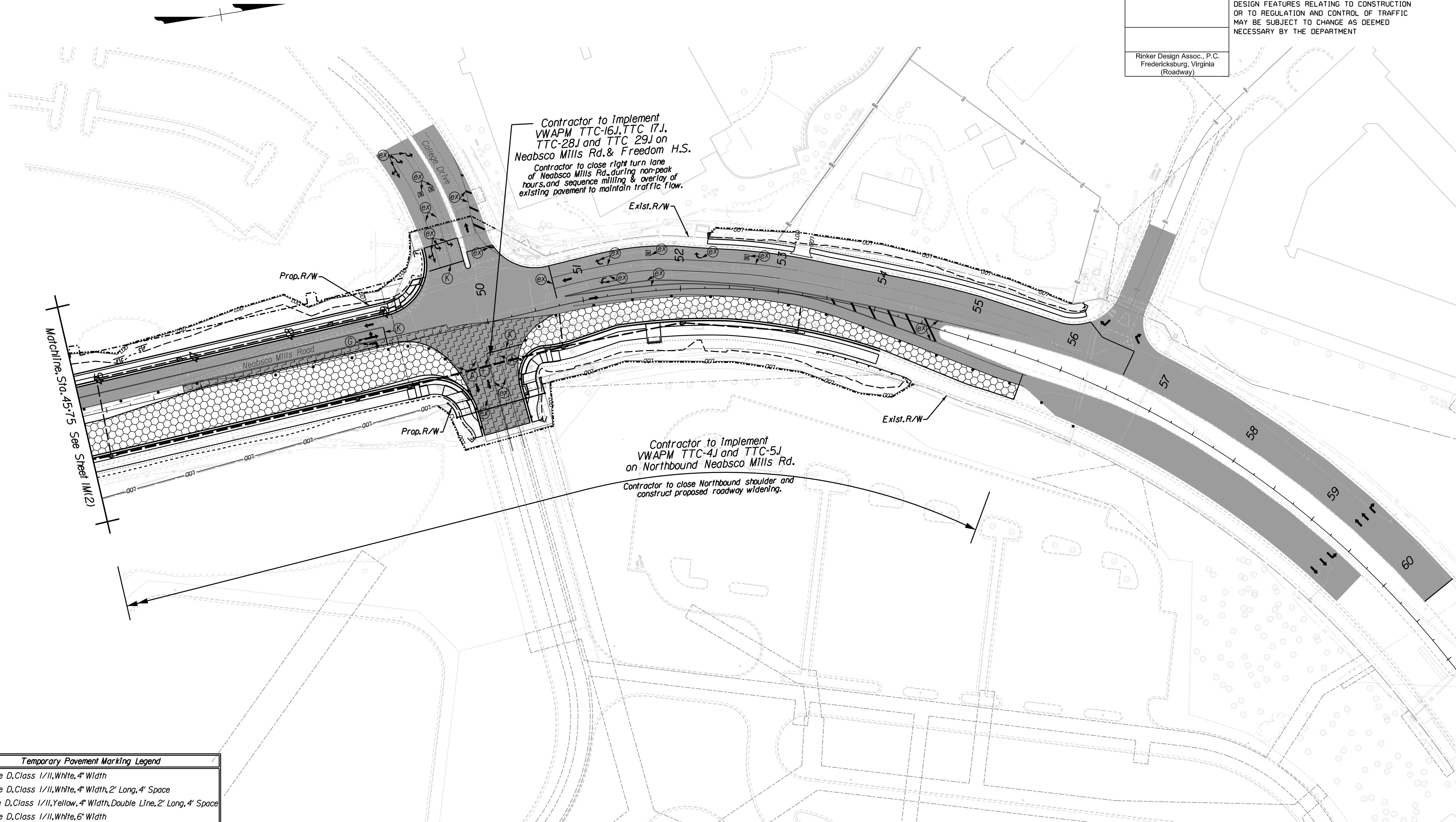
R/W PHASE PLANS

PROJECT MANAGER PWCDOT: Khattab, Shammout, P.E. (703) 792-7193
SURVEYED BY, DATE RDA: Ryan Dreel/a, LS (703) 334-9302, July 3, 2017
DESIGN BY RDA: Mack, A. Gunn, P.E. (703) 334-9288
SUBSURFACE UTILITY BY, DATE Accurmark (703) 378-0100, August 1, 2017

REVISED	STATE	ROUTE	STATE	VDOT PROJECT NO.	SHEET NO.
	VA.	638		0638-076-209 PE101 CS01 RW201	IM(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 (Roadway)					

PHASE 3 TMP/SOC

Rinker
 Design Associates, P.C.
 Civil Engineering, Surveying, Land Planning, Transportation, Environmental, Right of Way Services
 10000 University Blvd., Suite 1000
 Fredericksburg, VA 22403
 Phone: (540) 361-1100
 Fax: (540) 361-1101
 www.rinker.com



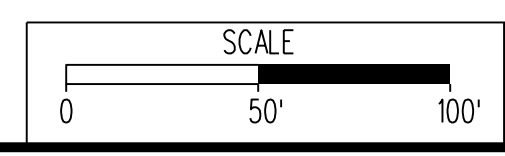
Temporary Pavement Marking Legend

(A)	Type D, Class 1/II, White, 4" Width
(B)	Type D, Class 1/II, White, 4" Width, 2' Long, 4' Space
(C)	Type D, Class 1/II, Yellow, 4" Width, Double Line, 2' Long, 4' Space
(D)	Type D, Class 1/II, White, 6" Width
(E)	Type D, Class 1/II, Yellow, 4" Width
(F)	Type D, Class 1/II, Yellow, 4" Width, Double Line, 4" Space
(G)	White, Turn Lane Use Arrow
(H)	Type D, Class 1/II, White, 24" Width @ 45°
(I)	Type D, Class 1/II, Yellow, 24" Width @ 45°
(J)	Type D, Class 1/II, Yellow, 4" Width, 2' Long, 4' Space
(K)	Type D, Class 1/II, White, 24" Width
(X)	Existing Pavement Marking

Suggested TMP/SOC Legend: Phase 3

	Denotes Perm. Pavement Construction This Phase
	Denotes Construction Under Traffic This Phase
	Denotes Existing Road/Traffic Flow
	Denotes Traffic Flow
	Denotes Group II Channelizing Devices

Easement Legend:
Dash-dot-dot line denotes proposed temporary easement.
Dash-dot line denotes proposed permanent easement.



VDOT PROJECT NO. 0638-076-209	SHEET NO. IM(3)
PWCDOT PROJECT NO. SPR2018-00271	

THESE PLANS ARE UNFINISHED AND UNAPPROVED AND ARE NOT TO BE USED FOR ANY TYPE OF CONSTRUCTION.

R/W PHASE PLANS

PROJECT MANAGER PWCDOT - Khattab, Shammout, P.E. (703) 792-7193
SURVEYED BY, DATE RDA: Ryan Dreella, LS (703) 334-9302, July 3, 2017
DESIGN BY RDA: Mack, A. Gunn, P.E. (703) 334-9288
SUBSURFACE UTILITY BY, DATE Accumark (703) 378-0100, August 1, 2017

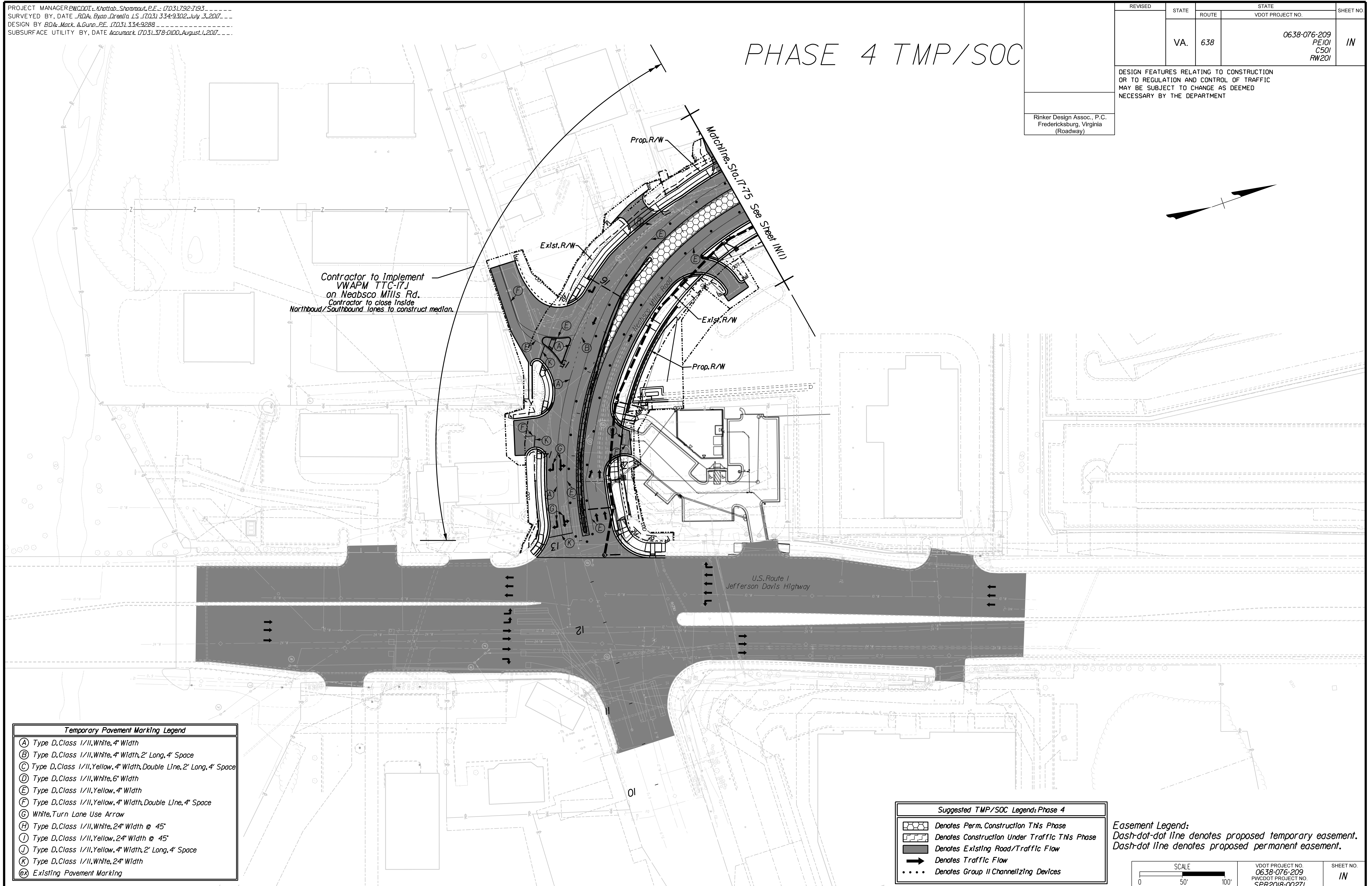
REVISED	STATE		STATE		SHEET NO.
	ROUTE	VDOT PROJECT NO.	VDOT PROJECT NO.		
	VA.	638	0638-076-209	PE/01 CS/01 RW/201	IN

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
(Roadway)

PHASE 4 TMP/SOC

Contractor to implement VWAPM TTC-17J on Neabsco Mills Rd. Contractor to close inside Northbound/Southbound lanes to construct median.



Rinker Design Associates, P.C.
 Civil Engineering, Surveying, Land Planning, Transportation, Environmental, Right of Way Services
 10000 Lakeside Blvd., Suite 200, Fredericksburg, VA 22402
 Phone: (540) 371-1100
 Fax: (540) 371-1101
 Website: www.rinker.com

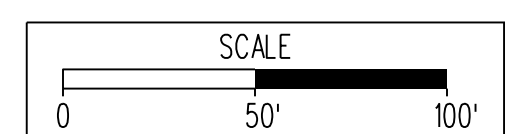
Temporary Pavement Marking Legend

(A)	Type D, Class 1/II, White, 4" Width
(B)	Type D, Class 1/II, White, 4" Width, 2' Long, 4' Space
(C)	Type D, Class 1/II, Yellow, 4" Width, Double Line, 2' Long, 4' Space
(D)	Type D, Class 1/II, White, 6" Width
(E)	Type D, Class 1/II, Yellow, 4" Width
(F)	Type D, Class 1/II, Yellow, 4" Width, Double Line, 4" Space
(G)	White, Turn Lane Use Arrow
(H)	Type D, Class 1/II, White, 24" Width @ 45°
(I)	Type D, Class 1/II, Yellow, 24" Width @ 45°
(J)	Type D, Class 1/II, Yellow, 4" Width, 2' Long, 4' Space
(K)	Type D, Class 1/II, White, 24" Width
(X)	Existing Pavement Marking

Suggested TMP/SOC Legend: Phase 4

	Denotes Perm. Construction This Phase
	Denotes Construction Under Traffic This Phase
	Denotes Existing Road/Traffic Flow
	Denotes Traffic Flow
	Denotes Group II Channelizing Devices

Easement Legend:
Dash-dot-dot line denotes proposed temporary easement.
Dash-dot line denotes proposed permanent easement.



VDOT PROJECT NO. 0638-076-209 PWCDOT PROJECT NO. SPR2018-00271	SHEET NO. IN
---	-----------------

THESE PLANS ARE UNFINISHED AND UNAPPROVED AND ARE NOT TO BE USED FOR ANY TYPE OF CONSTRUCTION.

R/W PHASE PLANS

PROJECT MANAGER: EWCDOT - Khattab, Shammout, P.E. (703) 792-7193
SURVEYED BY, DATE: RDA - Ryan Dreel/a, LS (703) 334-9302, July 3, 2017
DESIGN BY: RDA - Mack, A. Gunn, P.E. (703) 334-9288
SUBSURFACE UTILITY BY, DATE: Accurmark (703) 378-0100, August 1, 2017

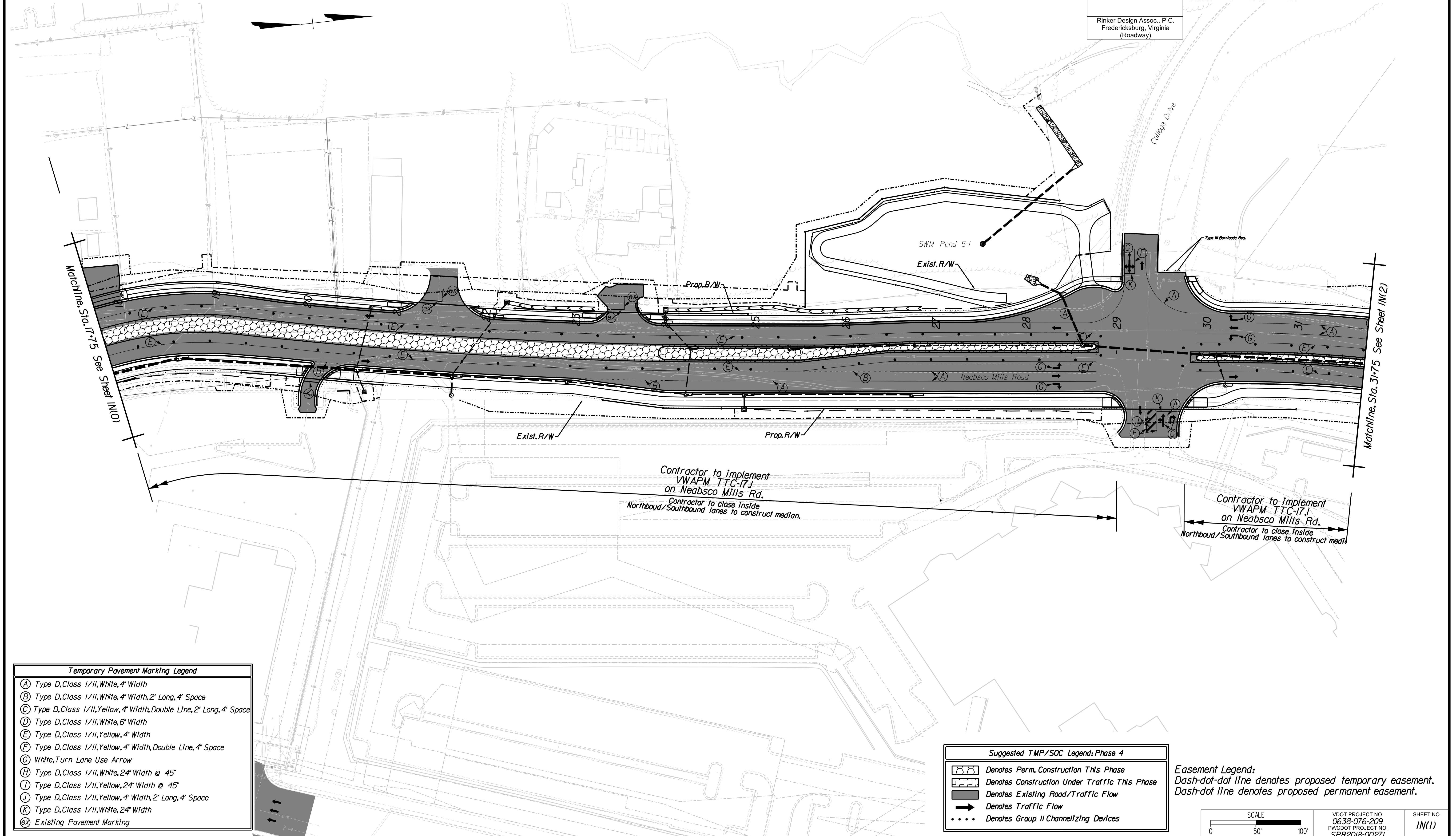
REVISED	STATE	ROUTE	STATE	VDOT PROJECT NO.	SHEET NO.
	VA.	638		0638-076-209 PE/01 CS/01 RW/201	IN(1)

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
(Roadway)

PHASE 4 TMP/SOC

Rinker
Design Associates, P.C.
Civil Engineering, Surveying, Land Planning, Transportation, Environmental, Right of Way Services



Contractor to implement VWAPM TTC-17.J on Neabsco Mills Rd.
Contractor to close inside Northbound/Southbound lanes to construct median.

Contractor to implement VWAPM TTC-17.J on Neabsco Mills Rd.
Contractor to close inside Northbound/Southbound lanes to construct median.

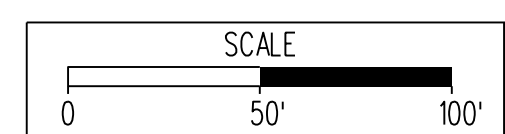
Temporary Pavement Marking Legend

(A)	Type D, Class 1/II, White, 4" Width
(B)	Type D, Class 1/II, White, 4" Width, 2' Long, 4' Space
(C)	Type D, Class 1/II, Yellow, 4" Width, Double Line, 2' Long, 4' Space
(D)	Type D, Class 1/II, White, 6" Width
(E)	Type D, Class 1/II, Yellow, 4" Width
(F)	Type D, Class 1/II, Yellow, 4" Width, Double Line, 4" Space
(G)	White, Turn Lane Use Arrow
(H)	Type D, Class 1/II, White, 24" Width @ 45°
(I)	Type D, Class 1/II, Yellow, 24" Width @ 45°
(J)	Type D, Class 1/II, Yellow, 4" Width, 2' Long, 4' Space
(K)	Type D, Class 1/II, White, 24" Width
(X)	Existing Pavement Marking

Suggested TMP/SOC Legend: Phase 4

[Pattern]	Denotes Perm. Construction This Phase
[Pattern]	Denotes Construction Under Traffic This Phase
[Pattern]	Denotes Existing Road/Traffic Flow
[Arrow]	Denotes Traffic Flow
[Dotted]	Denotes Group II Channelizing Devices

Easement Legend:
Dash-dot-dot line denotes proposed temporary easement.
Dash-dot line denotes proposed permanent easement.



VDOT PROJECT NO. 0638-076-209	SHEET NO. IN(1)
PWCDOT PROJECT NO. SPR2018-00271	

THESE PLANS ARE UNFINISHED AND UNAPPROVED AND ARE NOT TO BE USED FOR ANY TYPE OF CONSTRUCTION.

R/W PHASE PLANS

PROJECT MANAGER PWCDOT: Khattab, Shamout, P.E.: (703) 792-7193
SURVEYED BY, DATE RDA: Ryan, Dreella, L.S. (703) 334-9302, July 3, 2017
DESIGN BY RDA: Mack, Gunn, P.E. (703) 334-9288
SUBSURFACE UTILITY BY, DATE Accumark (703) 378-0100, August 1, 2017

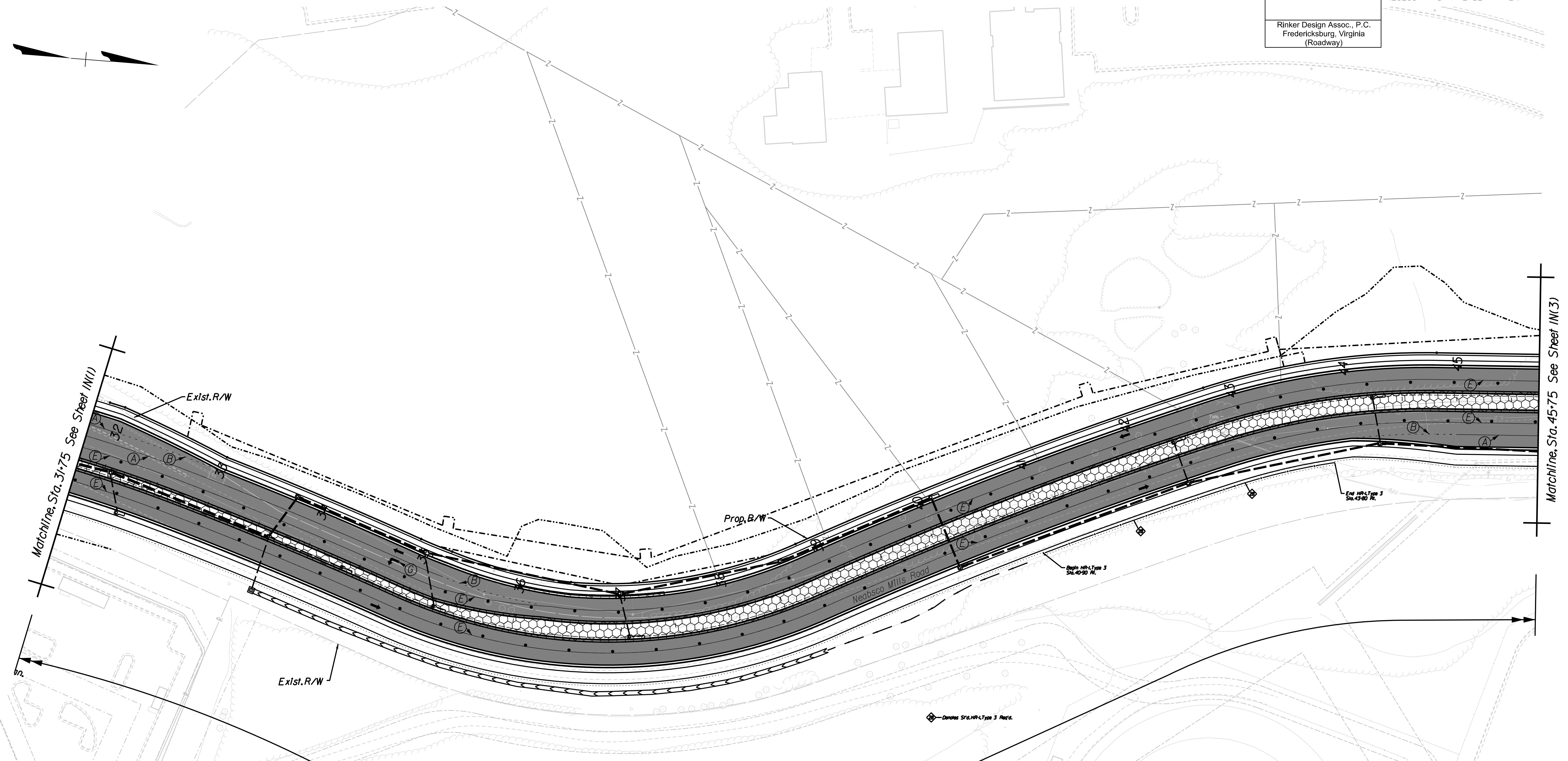
REVISED	STATE	ROUTE	STATE	VDOT PROJECT NO.	SHEET NO.
	VA.	638		0638-076-209 PE/01 CS/01 RW/201	IN(2)

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
(Roadway)

PHASE 4 TMP/SOC

Rinker
 Design Associates, P.C.
 Civil Engineering, Surveying, Land Planning, Transportation, Environmental, Right-of-Way Services
 10000 Lakeside Blvd., Suite 1000
 Fredericksburg, VA 22403
 Phone: (540) 371-1100
 Fax: (540) 371-1101
 www.rinker.com



Temporary Pavement Marking Legend

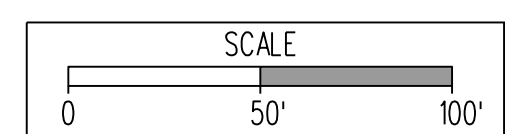
(A)	Type D, Class 1/II, White, 4" Width
(B)	Type D, Class 1/II, White, 4" Width, 2' Long, 4' Space
(C)	Type D, Class 1/II, Yellow, 4" Width, Double Line, 2' Long, 4' Space
(D)	Type D, Class 1/II, White, 6" Width
(E)	Type D, Class 1/II, Yellow, 4" Width
(F)	Type D, Class 1/II, Yellow, 4" Width, Double Line, 4" Space
(G)	White, Turn Lane Use Arrow
(H)	Type D, Class 1/II, White, 24" Width @ 45°
(I)	Type D, Class 1/II, Yellow, 24" Width @ 45°
(J)	Type D, Class 1/II, Yellow, 4" Width, 2' Long, 4' Space
(K)	Type D, Class 1/II, White, 24" Width
(X)	Existing Pavement Marking

Contractor to Implement
VWAPM TTC-17J
on Northbound Neabsco Mills Rd.
Contractor to close Inside
Northbound/Southbound lanes to construct median.

Suggested TMP/SOC Legend: Phase 4

	Denotes Perm. Construction This Phase
	Denotes Construction Under Traffic This Phase
	Denotes Existing Road/Traffic Flow
	Denotes Traffic Flow
	Denotes Group II Channelizing Devices

Easement Legend:
Dash-dot-dot line denotes proposed temporary easement.
Dash-dot line denotes proposed permanent easement.



VDOT PROJECT NO. 0638-076-209	SHEET NO. IN(2)
PWCDOT PROJECT NO. SPR2018-00271	

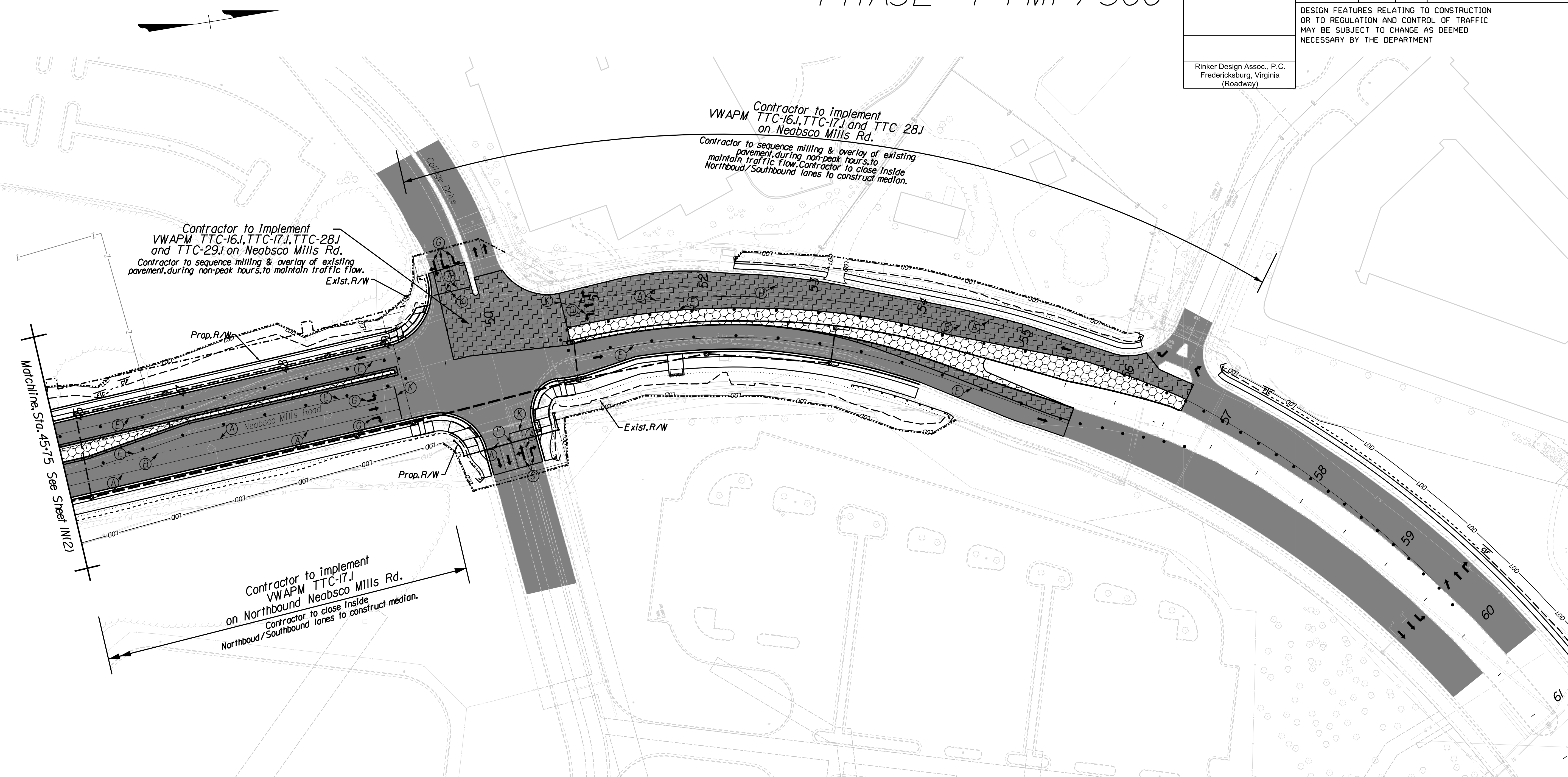
THESE PLANS ARE UNFINISHED AND UNAPPROVED AND ARE NOT TO BE USED FOR ANY TYPE OF CONSTRUCTION.

R/W PHASE PLANS

PROJECT MANAGER: PWCDOT - Khattab, Shammout, P.E. (703) 792-7193
SURVEYED BY, DATE: RDA: Bryan Drealet, LS (703) 334-9302, July 3, 2017
DESIGN BY: RDA: Mack, A. Gunn, P.E. (703) 334-9288
SUBSURFACE UTILITY BY, DATE: Accurack (703) 378-0100, August 1, 2017

REVISED	STATE	ROUTE	STATE	VDOT PROJECT NO.	SHEET NO.
	VA.	638		0638-076-209 PE101 CS01 RW201	IN(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 (Roadway)					

PHASE 4 TMP/SOC



Contractor to implement VWAPM TTC-16J, TTC-17J, TTC-28J and TTC-29J on Neabsco Mills Rd. Contractor to sequence milling & overlay of existing pavement, during non-peak hours, to maintain traffic flow.

Contractor to implement VWAPM TTC-16J, TTC-17J and TTC 28J on Neabsco Mills Rd. Contractor to sequence milling & overlay of existing pavement, during non-peak hours, to maintain traffic flow. Contractor to close inside Northbound/Southbound lanes to construct median.

Contractor to implement VWAPM TTC-17J on Northbound Neabsco Mills Rd. Contractor to close inside Northbound/Southbound lanes to construct median.

Matchline, Sta. 45+75 See Sheet IN(2)

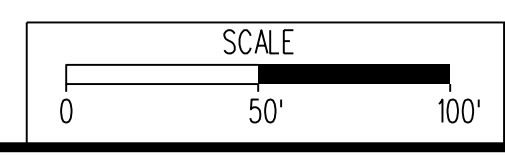
Temporary Pavement Marking Legend

(A)	Type D, Class 1/II, White, 4" Width
(B)	Type D, Class 1/II, White, 4" Width, 2' Long, 4' Space
(C)	Type D, Class 1/II, Yellow, 4" Width, Double Line, 2' Long, 4' Space
(D)	Type D, Class 1/II, White, 6" Width
(E)	Type D, Class 1/II, Yellow, 4" Width
(F)	Type D, Class 1/II, Yellow, 4" Width, Double Line, 4" Space
(G)	White, Turn Lane Use Arrow
(H)	Type D, Class 1/II, White, 24" Width @ 45°
(I)	Type D, Class 1/II, Yellow, 24" Width @ 45°
(J)	Type D, Class 1/II, Yellow, 4" Width, 2' Long, 4' Space
(K)	Type D, Class 1/II, White, 24" Width
(X)	Existing Pavement Marking

Suggested TMP/SOC Legend: Phase 4

	Denotes Perm. Construction This Phase
	Denotes Construction Under Traffic This Phase
	Denotes Existing Road/Traffic Flow
	Denotes Traffic Flow
	Denotes Group II Channelizing Devices

Easement Legend:
Dash-dot-dot line denotes proposed temporary easement.
Dash-dot line denotes proposed permanent easement.



VDOT PROJECT NO. 0638-076-209	SHEET NO. IN(3)
PWCDOT PROJECT NO. SPR2018-00271	

THESE PLANS ARE UNFINISHED AND UNAPPROVED AND ARE NOT TO BE USED FOR ANY TYPE OF CONSTRUCTION.

R/W PHASE PLANS

Rinker Design Associates, P.C.
Civil Engineering, Surveying, Land Planning, Transportation, Environmental, Right of Way Services

PROJECT MANAGER: EWCDOT - Khattab, Shammout, P.E. : (703) 792-7193
SURVEYED BY, DATE: RDA: Bryan Dreehl, LS (703) 334-9302, July 3, 2017
DESIGN BY: RDA: Mack, Gunn, P.E. (703) 334-9288
SUBSURFACE UTILITY BY, DATE: Accunack, (703) 378-0100, August 1, 2017

Erosion Control Plan Narrative

REVISED	STATE	STATE		SHEET NO.
	ROUTE	VDOT PROJECT NO.		
	VA.	638	0638-076-209 PE101 CS01 RW201	1P
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 (Roadway)				

EROSION AND SEDIMENT CONTROL MINIMUM STANDARDS:

1. PERMANENT OR TEMPORARY SOIL STABILIZATION SHALL BE APPLIED TO DENUDED AREAS WITHIN SEVEN DAYS AFTER FINAL GRADE IS REACHED ON ANY PORTION OF THE SITE. TEMPORARY SOIL STABILIZATION SHALL BE APPLIED WITHIN SEVEN DAYS TO DENUDED AREAS THAT MAY NOT BE AT FINAL GRADE BUT WILL REMAIN DORMANT FOR LONGER THAN 14 DAYS. PERMANENT STABILIZATION SHALL BE APPLIED TO AREAS THAT ARE TO BE LEFT DORMANT FOR MORE THAN ONE YEAR.
2. DURING CONSTRUCTION OF THE PROJECT, SOIL STOCKPILES AND BORROW AREAS SHALL BE STABILIZED OR PROTECTED WITH SEDIMENT TRAPPING MEASURES. THE APPLICANT IS RESPONSIBLE FOR THE TEMPORARY PROTECTION AND PERMANENT STABILIZATION OF ALL SOILS STOCKPILES ON-SITE AS WELL AS BORROW AREAS AND SOIL INTENTIONALLY TRANSPORTED FROM THE PROJECT SITE.
3. A PERMANENT VEGETATIVE COVER SHALL BE ESTABLISHED ON DENUDED AREAS NOT OTHERWISE PERMANENTLY STABILIZED. PERMANENT VEGETATION SHALL NOT BE CONSIDERED ESTABLISHED UNTIL A GROUND COVER IS ACHIEVED THAT IS UNIFORM, MATURE ENOUGH TO SURVIVE, AND WILL INHIBIT EROSION.
4. SEDIMENT BASINS AND TRAPS, PERIMETER DIKES, SEDIMENT BARRIERS, AND OTHER MEASURES INTENDED TO TRAP SEDIMENT SHALL BE CONSTRUCTED AS A FIRST STEP IN ANY LAND-DISTURBING ACTIVITY AND SHALL BE MADE FUNCTIONAL BEFORE UP-SLOPE LAND DISTURBANCE TAKES PLACE.
5. STABILIZATION MEASURES SHALL BE APPLIED TO EARTHEN STRUCTURES SUCH AS DAMS, DIKES, AND DIVERSIONS IMMEDIATELY AFTER INSTALLATION.
6. SEDIMENT TRAPS AND SEDIMENT BASINS SHALL BE DESIGNED AND CONSTRUCTED BASED UPON THE TOTAL DRAINAGE AREA TO BE SERVED BY THE TRAP OR BASIN.
 - a. THE MINIMUM STORAGE CAPACITY OF A SEDIMENT TRAP SHALL BE 134 CUBIC YARDS PER ACRE OF DRAINAGE, AND THE TRAP SHALL ONLY CONTROL DRAINAGE AREAS LESS THAN THREE ACRES.
 - b. SURFACE RUNOFF FROM DISTURBED AREAS THAT IS COMPRISED OF FLOW FROM DRAINAGE AREAS GREATER THAN OR EQUAL TO THREE ACRES SHALL BE CONTROLLED BY A SEDIMENT BASIN. THE MINIMUM STORAGE CAPACITY OF A SEDIMENT BASIN SHALL BE 134 CUBIC YARDS PER ACRE OF DRAINAGE AREA. THE OUTFALL SYSTEM SHALL, AT A MINIMUM, MAINTAIN THE STRUCTURAL INTEGRITY OF THE BASIN DURING A TWENTY-FIVE YEAR STORM OF 24-HOUR DURATION. RUNOFF COEFFICIENTS USED IN RUNOFF CALCULATIONS SHALL CORRESPOND TO A BARE EARTH CONDITION OR THOSE CONDITIONS EXPECTED TO EXIST WHILE THE SEDIMENT BASIN IS UTILIZED.
7. CUT AND FILL SLOPES SHALL BE DESIGNED AND CONSTRUCTED IN A MANNER THAT WILL MINIMIZE EROSION. SLOPES THAT ARE FOUND TO BE ERODING EXCESSIVELY WITHIN ONE YEAR OF PERMANENT STABILIZATION SHALL BE PROVIDED WITH ADDITIONAL SLOPE STABILIZING MEASURES UNTIL THE PROBLEM IS CORRECTED.
8. CONCENTRATED RUNOFF SHALL NOT FLOW DOWN CUT OR FILL SLOPES UNLESS CONTAINED WITHIN AN ADEQUATE TEMPORARY OR PERMANENT CHANNEL, FLUME, OR SLOPE DRAIN STRUCTURE.
9. WHENEVER WATER SEEPS FROM A SLOPE FACE, ADEQUATE DRAINAGE OR OTHER PROTECTION SHALL BE PROVIDED.
10. ALL STORM SEWER INLETS THAT ARE MADE OPERABLE DURING CONSTRUCTION SHALL BE PROTECTED SO THAT SEDIMENT-LADEN WATER CANNOT ENTER THE CONVEYANCE SYSTEM WITHOUT FIRST BEING FILTERED OR OTHERWISE TREATED TO REMOVE SEDIMENT.
11. BEFORE NEWLY CONSTRUCTED STORMWATER CONVEYANCE CHANNELS OR PIPES ARE MADE OPERATIONAL, ADEQUATE OUTLET PROTECTION AND ANY REQUIRED TEMPORARY OR PERMANENT CHANNEL LINING SHALL BE INSTALLED IN BOTH THE CONVEYANCE CHANNEL AND RECEIVING CHANNEL.
12. WHEN WORK IN A LIVE WATERCOURSE IS PERFORMED, PRECAUTIONS SHALL BE TAKEN TO MINIMIZE ENCROACHMENT, CONTROL SEDIMENT TRANSPORT, AND STABILIZE THE WORK AREA TO THE GREATEST EXTENT POSSIBLE DURING CONSTRUCTION. NON-ERODIBLE MATERIAL SHALL BE USED FOR THE CONSTRUCTION OF CAUSEWAYS AND COFFERDAMS. EARTHEN FILL MAY BE USED FOR THESE STRUCTURES IF ARMORED BY NON-ERODIBLE COVER MATERIALS.
13. WHEN A LIVE WATERCOURSE MUST BE CROSSED BY CONSTRUCTION VEHICLES MORE THAN TWICE IN ANY SIX-MONTH PERIOD, A TEMPORARY VEHICULAR STREAM CROSSING CONSTRUCTED OF NON-ERODIBLE MATERIAL SHALL BE PROVIDED.
14. ALL APPLICABLE FEDERAL, STATE, AND LOCAL REGULATIONS PERTAINING TO WORKING IN OR CROSSING LIVE WATERCOURSES SHALL BE MET.
15. THE BED AND BANKS OF A WATERCOURSE SHALL BE STABILIZED IMMEDIATELY AFTER WORK IN THE WATERCOURSE IS COMPLETED.
16. UNDERGROUND UTILITY LINES SHALL BE INSTALLED IN ACCORDANCE WITH THE FOLLOWING STANDARDS IN ADDITION TO OTHER APPLICABLE CRITERIA:
 - a. NO MORE THAN 500 LINEAR FEET OF TRENCH MAY BE OPENED AT ONE TIME.
 - b. EXCAVATED MATERIAL SHALL BE PLACED ON UPHILL SIDE OF TRENCHES.
 - c. EFFLUENT FROM DEWATERING OPERATIONS SHALL BE FILTERED OR PASSED THROUGH AN APPROVED SEDIMENT TRAPPING DEVICE, OR BOTH, AND DISCHARGED IN A MANNER THAT DOES NOT ADVERSELY AFFECT FLOWING STREAMS OR OFF-SITE PROPERTY.
 - d. MATERIAL USED FOR BACKFILLING TRENCHES SHALL BE PROPERLY COMPACTED IN ORDER TO MINIMIZE EROSION AND PROMOTE STABILIZATION.
 - e. RESTABILIZATION SHALL BE ACCOMPLISHED IN ACCORDANCE WITH THESE REGULATIONS.
 - f. APPLICABLE SAFETY REGULATIONS SHALL BE COMPLIED WITH.

17. WHERE CONSTRUCTION VEHICLE ACCESS ROUTES INTERSECT PAVED OR PUBLIC ROADS, PROVISIONS SHALL BE MADE TO MINIMIZE THE TRANSPORT OF SEDIMENT BY VEHICULAR TRACKING ONTO THE PAVED SURFACE. WHERE SEDIMENT IS TRANSPORTED ONTO A PAVED OR PUBLIC ROAD SURFACE, THE ROAD SURFACE SHALL BE CLEANED THOROUGHLY AT THE END OF EACH DAY. SEDIMENT SHALL BE REMOVED FROM THE ROADS BY SHOVELING OR SWEEPING AND TRANSPORTED TO A SEDIMENT CONTROL DISPOSAL AREA. STREET WASHING SHALL BE ALLOWED ONLY AFTER SEDIMENT IS REMOVED IN THIS MANNER. THIS PROVISION SHALL APPLY TO INDIVIDUAL DEVELOPMENT LOTS AS WELL AS TO LARGER LAND-DISTURBING ACTIVITIES.
18. ALL TEMPORARY EROSION AND SEDIMENT CONTROL MEASURES SHALL BE REMOVED WITHIN 30 DAYS AFTER FINAL SITE STABILIZATION OR AFTER THE TEMPORARY MEASURES ARE NO LONGER NEEDED, UNLESS OTHERWISE AUTHORIZED BY THE LOCAL PROGRAM AUTHORITY. TRAPPED MEASURES SHALL BE PERMANENTLY STABILIZED TO PREVENT FURTHER EROSION AND SEDIMENTATION.
19. PROPERTIES AND WATERWAYS DOWNSTREAM FROM DEVELOPMENT SITE SHALL BE PROTECTED FROM SEDIMENT DEPOSITION, EROSION AND DAMAGE DUE TO INCREASE IN VOLUME, VELOCITY AND PEAK FLOW RATE OF STORMWATER RUNOFF FOR THE STATED FREQUENCY STORM OF 24-HOUR DURATION IN ACCORDANCE WITH THE FOLLOWING STANDARDS AND CRITERIA:
 - a. CONCENTRATED STORMWATER RUNOFF LEAVING A DEVELOPMENT SITE SHALL BE DISCHARGED DIRECTLY INTO AN ADEQUATE NATURAL OR MAN-MADE RECEIVING CHANNEL, PIPE, OR STORM SEWER SYSTEM. FOR THOSE SITES WHERE RUNOFF IS DISCHARGED INTO A PIPE OR PIPE SYSTEM, DOWNSTREAM STABILITY ANALYSES AT THE OUTFALL OF THE PIPE OR PIPE SYSTEM SHALL BE PERFORMED.
 - b. ADEQUACY OF ALL CHANNELS AND PIPES SHALL BE VERIFIED IN THE FOLLOWING MANNER:
 - (1) THE APPLICANT SHALL DEMONSTRATE THAT THE TOTAL DRAINAGE AREA TO THE POINT OF ANALYSIS WITHIN THE CHANNEL IS ONE HUNDRED TIMES GREATER THAN THE CONTRIBUTING DRAINAGE AREA OF THE PROJECT IN QUESTION; OR
 - (2) NATURAL CHANNELS SHALL BE ANALYZED BY THE USE OF A TWO-YEAR STORM TO VERIFY THAT STORMWATER WILL NOT OVERTOP CHANNEL BANKS NOR CAUSE EROSION OF CHANNEL BED AND BANKS. ALL PREVIOUSLY CONSTRUCTED MAN-MADE CHANNELS SHALL BE ANALYZED BY THE USE OF A TEN-YEAR STORM TO VERIFY THAT STORMWATER WILL NOT OVERTOP ITS BANKS AND BY THE USE OF A TWO-YEAR STORM TO DEMONSTRATE THAT STORMWATER WILL NOT CAUSE EROSION OF CHANNEL BED OR BANKS, AND PIPES AND STORM SEWER SYSTEMS SHALL BE ANALYZED BY THE USE OF A TEN-YEAR STORM TO VERIFY THAT STORMWATER WILL BE CONTAINED WITHIN THE PIPE OR SYSTEM.
 - c. IF EXISTING NATURAL RECEIVING CHANNELS OR PREVIOUSLY CONSTRUCTED MAN-MADE CHANNELS OR PIPES ARE NOT ADEQUATE, THE APPLICANT SHALL:
 - (1) IMPROVE THE CHANNEL TO A CONDITION WHERE A TEN-YEAR STORM WILL NOT OVERTOP THE BANKS AND A TWO-YEAR STORM WILL NOT CAUSE EROSION TO THE CHANNEL BED OR BANKS;
 - (2) IMPROVE THE PIPE OR PIPE SYSTEM TO A CONDITION WHERE THE TEN-YEAR STORM IS CONTAINED WITHIN THE APPURTENANCES;
 - (3) DEVELOP A SITE DESIGN THAT WILL NOT CAUSE THE PRE-DEVELOPMENT PEAK RUNOFF RATE FROM A TWO-YEAR STORM TO INCREASE WHEN RUNOFF OUTFALLS INTO A NATURAL CHANNEL OR WILL NOT CAUSE THE PRE-DEVELOPMENT PEAK RUNOFF RATE FROM A TEN-YEAR STORM TO INCREASE WHEN RUNOFF OUTFALLS INTO A MAN-MADE CHANNEL; OR
 - (4) PROVIDE A COMBINATION OF CHANNEL IMPROVEMENT, STORMWATER DETENTION, OR OTHER MEASURES WHICH IS SATISFACTORY TO THE PLAN-APPROVING AUTHORITY TO PREVENT DOWNSTREAM EROSION.
 - d. THE APPLICANT SHALL PROVIDE EVIDENCE OF PERMISSION TO MAKE THE IMPROVEMENTS.
 - e. ALL HYDROLOGIC ANALYSES SHALL BE BASED ON EXISTING WATERSHED CHARACTERISTICS AND THE ULTIMATE DEVELOPMENT OF THE SUBJECT PROJECT.
 - f. IF THE APPLICANT CHOOSES AN OPTION THAT INCLUDES STORMWATER DETENTION, HE SHALL OBTAIN APPROVAL FROM THE LOCALITY OF A PLAN FOR MAINTENANCE OF THE DETENTION FACILITIES. THE PLAN SHALL SET FORTH THE MAINTENANCE REQUIREMENTS OF THE FACILITY AND THE PERSON RESPONSIBLE FOR PERFORMING THE MAINTENANCE.
 - g. OUTFALL FROM A DETENTION FACILITY SHALL BE DISCHARGED TO A RECEIVING CHANNEL AND ENERGY DISSIPATORS SHALL BE PLACED AT THE OUTFALL OF ALL DETENTION FACILITIES AS NECESSARY TO PROVIDE A STABILIZED TRANSITION FROM THE FACILITY TO THE RECEIVING CHANNEL.
 - h. ALL ON-SITE CHANNELS MUST BE VERIFIED TO BE ADEQUATE.
- i. INCREASED VOLUMES OF SHEET FLOWS THAT MAY CAUSE EROSION OR SEDIMENTATION ON ADJACENT PROPERTY SHALL BE DIVERTED TO A STABLE OUTLET, ADEQUATE CHANNEL, PIPE OR PIPE SYSTEM, OR TO A DETENTION FACILITY.
- j. IN APPLYING THESE STORMWATER MANAGEMENT CRITERIA, INDIVIDUAL LOTS OR PARCELS IN A RESIDENTIAL, COMMERCIAL OR INDUSTRIAL DEVELOPMENT SHALL NOT BE CONSIDERED TO BE SEPARATE DEVELOPMENT PROJECTS. INSTEAD, THE DEVELOPMENT, AS A WHOLE, SHALL BE CONSIDERED TO BE A SINGLE DEVELOPMENT PROJECT. HYDROLOGIC PARAMETERS THAT REFLECT THE ULTIMATE DEVELOPMENT CONDITION SHALL BE USED IN ALL ENGINEERING CALCULATIONS.
- k. ALL MEASURES USED TO PROTECT PROPERTIES AND WATERWAYS SHALL BE EMPLOYED IN A MANNER WHICH MINIMIZES IMPACTS ON THE PHYSICAL, CHEMICAL, AND BIOLOGICAL INTEGRITY OF RIVERS, STREAMS AND OTHER WATERS OF THE STATE.

- l. ANY PLAN APPROVED PRIOR TO JULY 1, 2014, THAT PROVIDES FOR STORMWATER MANAGEMENT THAT ADDRESSES ANY FLOW RATE CAPACITY AND VELOCITY REQUIREMENTS FOR NATURAL OR MAN-MADE CHANNELS SHALL SATISFY THE FLOW RATE CAPACITY AND VELOCITY REQUIREMENTS FOR NATURAL OR MAN-MADE CHANNELS IF THE PRACTICES ARE DESIGNED TO (I) DETAIN THE WATER QUALITY VOLUME AND TO RELEASE IT OVER 48 HOURS; (II) DETAIN AND RELEASE OF A 24-HOUR PERIOD THE EXPECTED RAINFALL RESULTING FROM THE ONE YEAR, 24-HOUR STORM; AND (III) REDUCE THE ALLOWABLE PEAK FLOW RATE RESULTING FROM THE 1.5, 2, AND 10-YEAR, 24-HOUR STORMS TO A LEVEL THAT IS LESS THAN OR EQUAL TO THE PEAK FLOW RATE FROM THE SITE ASSUMING IT WAS IN A GOOD FORESTED CONDITION, ACHIEVED THROUGH MULTIPLICATION OF THE FORESTED PEAK FLOW RATE BY A REDUCTION FACTOR THAT IS EQUAL TO THE RUNOFF VOLUME FROM THE SITE IN ITS PROPOSED CONDITION, AND SHALL BE EXEMPT FROM ANY FLOW RATE CAPACITY AND VELOCITY REQUIREMENTS FOR NATURAL OR MAN-MADE CHANNELS AS DEFINED IN ANY REGULATIONS PROMULGATED PURSUANT TO 10J-562 OR 10J-570 OF THE ACT.
- m. FOR PLANS APPROVED ON AND AFTER JULY 1, 2014, THE FLOW RATE CAPACITY AND VELOCITY REQUIREMENTS OF § 10J-561 A OF THE ACT AND THIS SUBSECTION SHALL BE SATISFIED BY COMPLIANCE WITH WATER QUALITY REQUIREMENTS IN THE STORMWATER MANAGEMENT ACT (10J-603.2 ES SEQ. OF THE CODE OF VIRGINIA) AND ATTENDANT REGULATIONS, UNLESS SUCH LAND-DISTURBING ACTIVITIES ARE IN ACCORDANCE WITH 4VAC50-60-48 OF THE VIRGINIA STORMWATER MANAGEMENT PROGRAM (VSMP) PERMIT REGULATIONS.
- n. COMPLIANCE WITH THE WATER QUALITY MINIMUM STANDARDS SET OUT IN 4VAC 50-60-66 OF THE VIRGINIA STORMWATER MANAGEMENT PROGRAM (VSMP) PERMIT REGULATIONS SHALL BE DEEMED TO SATISFY THE REQUIREMENTS OF MINIMUM STANDARD 19.



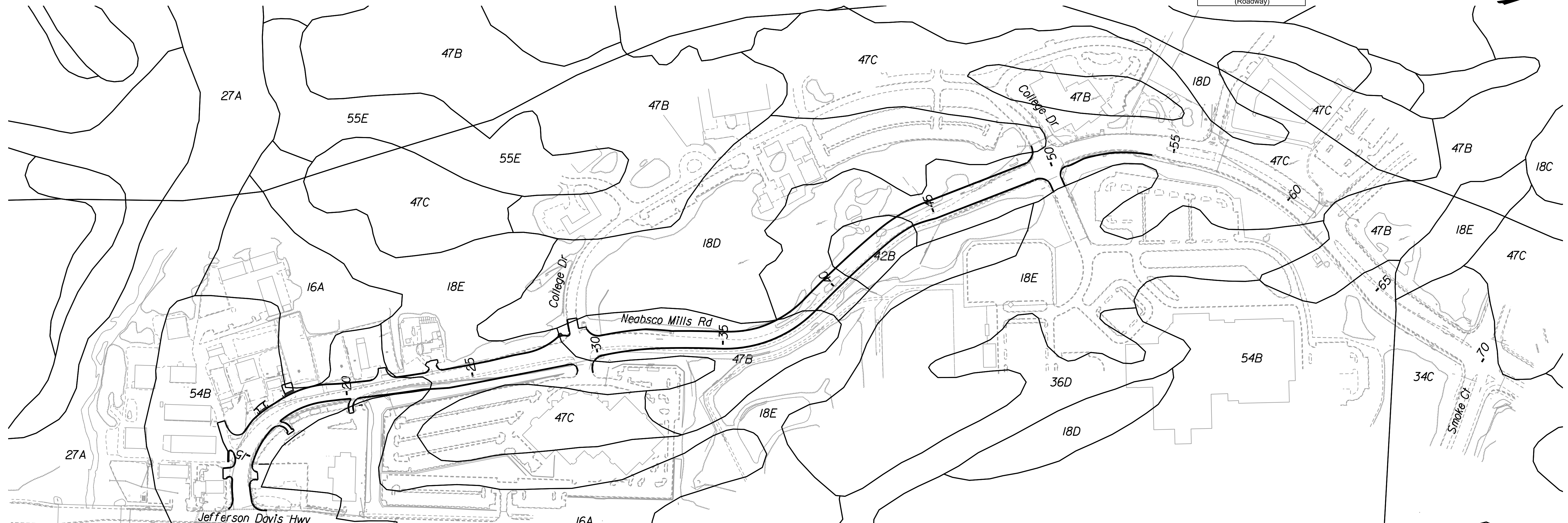
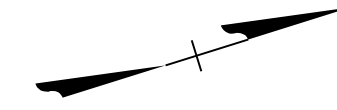
PROJECT MANAGER: PWCDOT - Khattab, Shamout, P.E. (703) 792-7193
SURVEYED BY, DATE: RDA - Ryan Dreel/a LS (703) 334-9302 July 3, 2017
DESIGN BY: RDA - Mack, Gunn, P.E. (703) 334-9288
SUBSURFACE UTILITY BY, DATE: Accurmark (703) 378-0100 August 1, 2017

Soils Identification Map

REVISED	STATE	ROUTE	STATE	VDOT PROJECT NO.	SHEET NO.
	VA.	638		0638-076-209 PE101 CS01 RW201	IP(1)

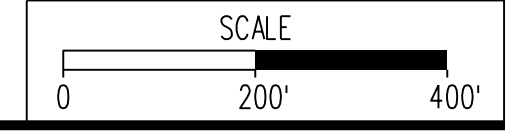
DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT

Rinker Design Assoc., P.C.
Fredericksburg, Virginia
(Roadway)



SOIL NUMBER	SOIL NAME	HSG	K-FACTOR	DRAINAGE CLASS	SLOPES	RUNOFF CLASS	DEPTH TO BEDROCK	FLOODING	SHRINK/SWELL
16A	Delanco Fine Sandy Loam	C/D	.28	Moderately Well Drained	0-4%	Medium	>80 in	Rare	Low/Moderate
18C	Dumfries Sandy Loam	A	.24	Well Drained	7-15%	Low	>80 in	None	Low
18D	Dumfries Sandy Loam	A	.24	Well Drained	15-25%	Medium	>80 in	None	Low
18E	Dumfries Sandy Loam	A	.24	Well Drained	25-50%	Medium	>80 in	None	Low
27A	Hatboro-Codorus complex	B/D	.43	Poorly Drained	0-2%	Low	>80 in	Frequent	Low
34C	Lunt Loam	B	.37	Well Drained	7-15%	Medium	>80 in	None	Low/High
36D	Marr very Fine Sandy Loam	B	.49	Well Drained	7-25%	Medium	>80 in	None	Low
42B	Neabsco-Quantico complex	D	.43	Moderately Well Drained	2-7%	Very High	14-30 in	None	Low/Moderate
47B	Quantico Sandy Loam	B	.32	Well Drained	2-7%	Medium	>80 in	None	Low/Moderate
47C	Quantico Sandy Loam	B	.32	Well Drained	7-15%	Medium	>80 in	None	Low/Moderate
54B	Urban Land-Udorthents complex	-	-	-	0-7%	-	-	-	-
55D	Watt Channery Silt Loam	B	.24	Somewhat Excessively Drained	15-25%	High	20-40 in	None	Low
55E	Watt Channery Silt Loam	B	.24	Somewhat Excessively Drained	25-50%	High	20-40 in	None	Low

Rinker
 Design Associates, P.C.
 Civil Engineering, Surveying, Land Planning, Transportation, Environmental, Right of Way Services



VDOT PROJECT NO.
0638-076-209
PWCDOT PROJECT NO.
SPR2018-00271

SHEET NO.
IP(1)

THESE PLANS ARE UNFINISHED AND UNAPPROVED AND ARE NOT TO BE USED FOR ANY TYPE OF CONSTRUCTION.

R/W PHASE PLANS

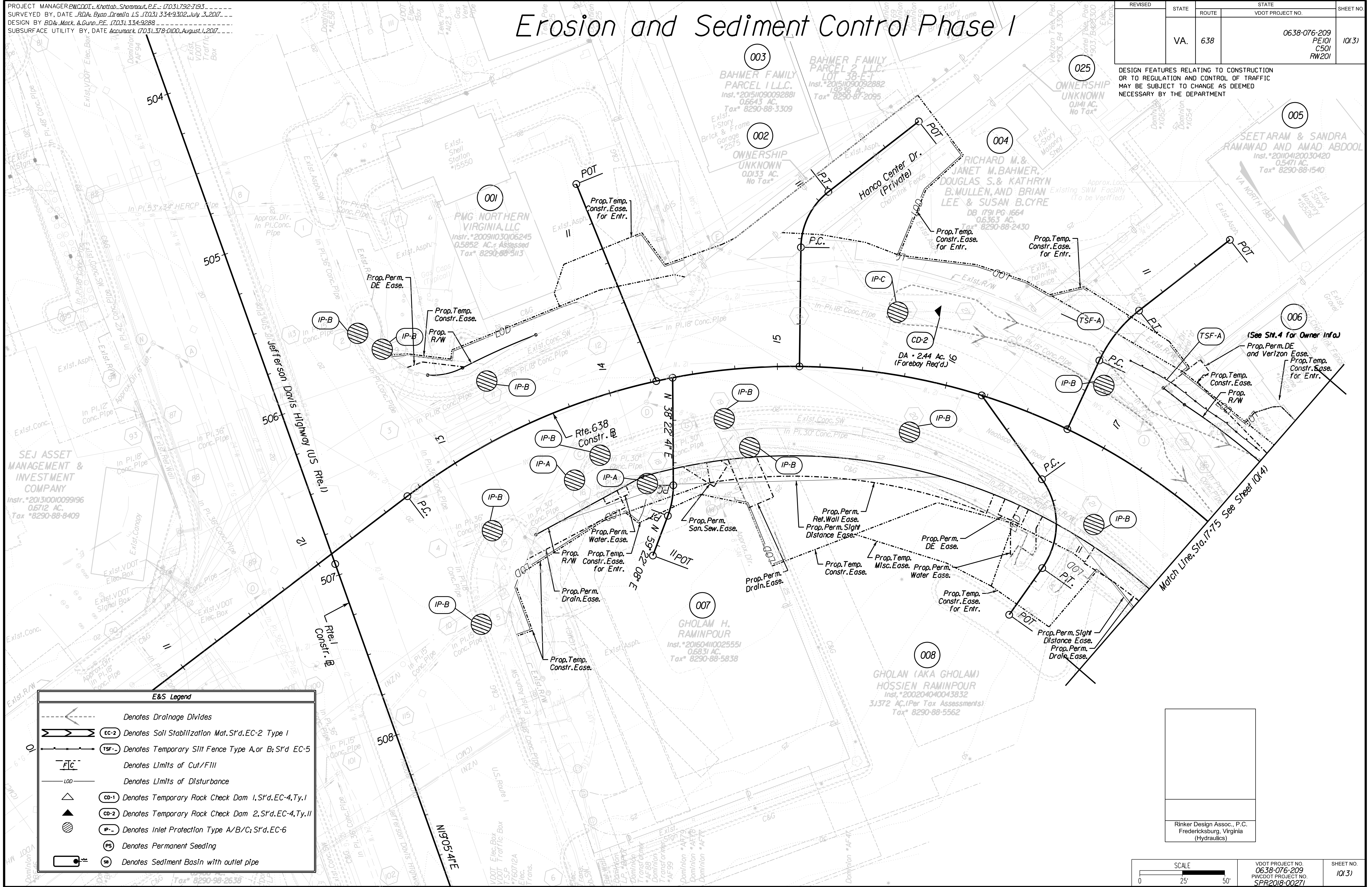
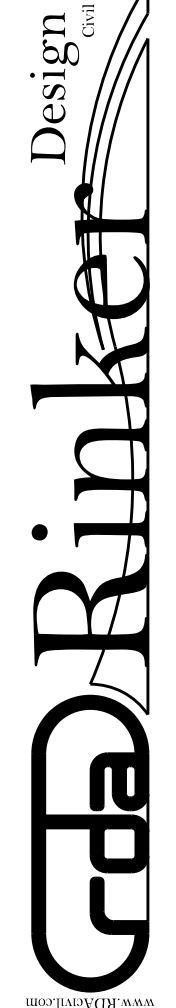
PROJECT MANAGER: EWC DOT - Khattab, Shammout, P.E. (703) 792-7193
SURVEYED BY, DATE: RDA: Bryan Drea, LS (703) 334-9302, July 3, 2017
DESIGN BY: RDA: Mack & Gunn, P.E. (703) 334-9288
SUBSURFACE UTILITY BY, DATE: Accurack (703) 378-0100, August 1, 2017

Erosion and Sediment Control Phase I

REVISED	STATE	ROUTE	STATE	VDOT PROJECT NO.	SHEET NO.
	VA.	638		0638-076-209 PE101 CS01 RW201	10(3)

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

Offline Locations
Design Associates, P.C.
Civil Engineering, Surveying, Land Planning, Transportation, Environmental, Construction Management, Right of Way Services



E&S Legend

	Denotes Drainage Divides
	Denotes Soil Stabilization Mat. S'd. EC-2 Type I
	Denotes Temporary Silt Fence Type A or B; S'd. EC-5
	Denotes Limits of Cut/Fill
	Denotes Limits of Disturbance
	Denotes Temporary Rock Check Dam 1, S'd. EC-4, Ty. I
	Denotes Temporary Rock Check Dam 2, S'd. EC-4, Ty. II
	Denotes Inlet Protection Type A/B/C; S'd. EC-6
	Denotes Permanent Seeding
	Denotes Sediment Basin with outlet pipe

Rinker Design Assoc., P.C.
Fredericksburg, Virginia
(Hydraulics)

SCALE	VDOT PROJECT NO.	SHEET NO.
0 25' 50'	0638-076-209 PWCDOT PROJECT NO. SPR2018-00271	10(3)

THESE PLANS ARE UNFINISHED AND UNAPPROVED AND ARE NOT TO BE USED FOR ANY TYPE OF CONSTRUCTION.

R/W PHASE PLANS

PROJECT MANAGER EWCDOT - Khatib, Shammout, P.E. : (703) 792-7193
SURVEYED BY, DATE RDA: Bryan Dreelin, L.S. (703) 334-9302, July 3, 2017
DESIGN BY RDA: Mack & Gunn, P.E. (703) 334-9288
SUBSURFACE UTILITY BY, DATE Accurmark (703) 378-0100, August 1, 2017

Erosion and Sediment Control Phase I

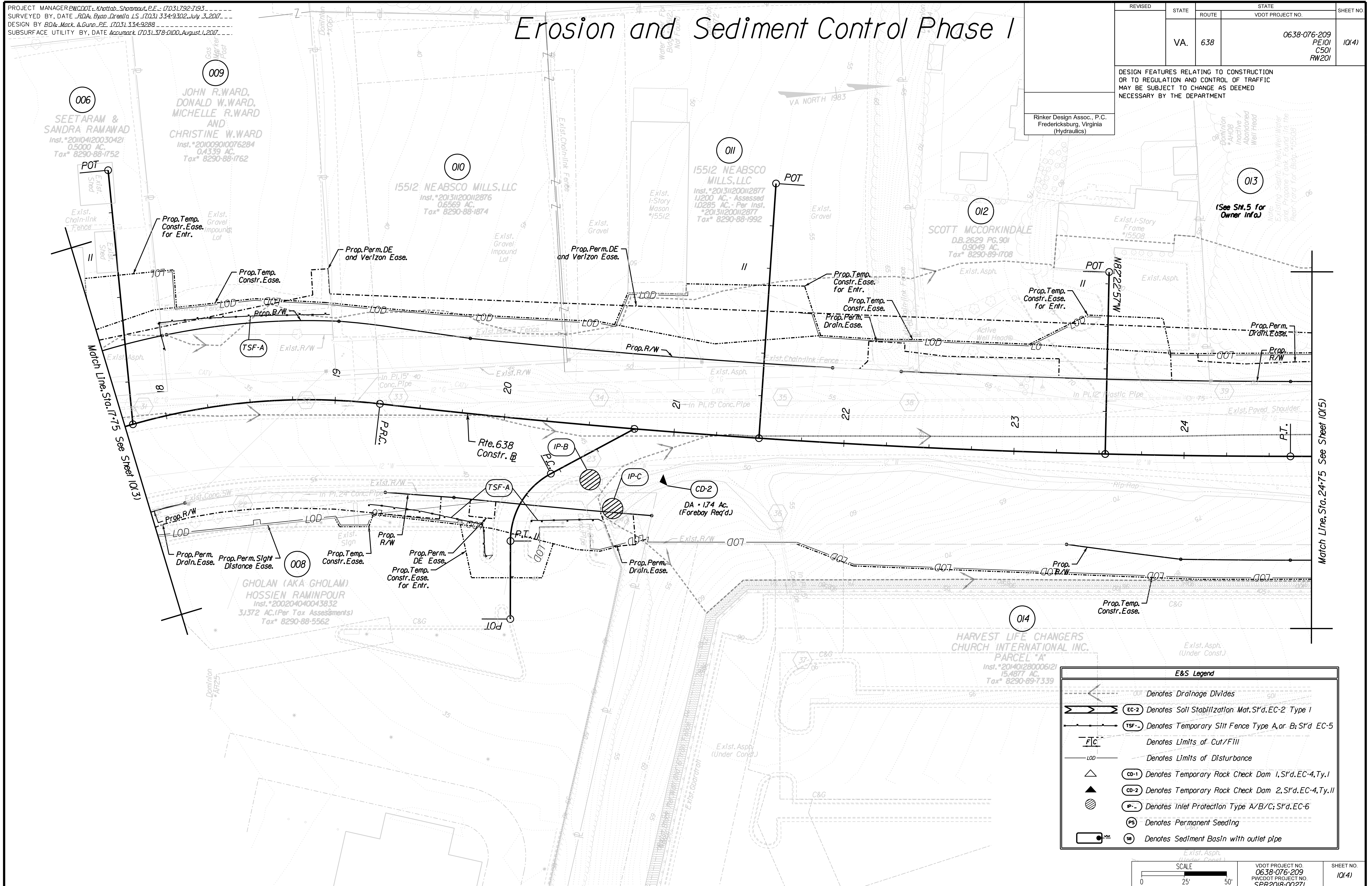
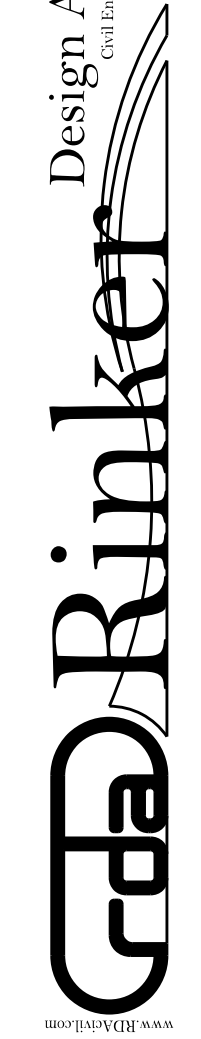
REVISED	STATE	ROUTE	STATE	VDOT PROJECT NO.	SHEET NO.
	VA.	638		0638-076-209 PE101 CS01 RW201	10(4)

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

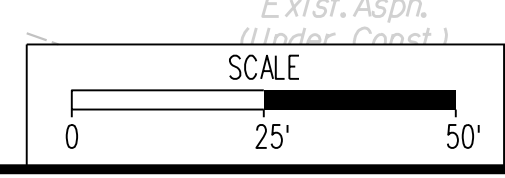
Rinker Design Assoc., P.C.
Fredericksburg, Virginia
(Hydraulics)

(See Sh. 5 for Owner Info)

Design Associates, P.C.
Civil Engineering, Surveying, Land Planning, Transportation, Environmental, Right of Way Services



E&S Legend	
	Denotes Drainage Divides
	Denotes Soil Stabilization Mat. S1'd. EC-2 Type 1
	Denotes Temporary Silt Fence Type A, or B; S1'd. EC-5
	Denotes Limits of Cut/Fill
	Denotes Limits of Disturbance
	Denotes Temporary Rock Check Dam 1, S1'd. EC-4, Ty. I
	Denotes Temporary Rock Check Dam 2, S1'd. EC-4, Ty. II
	Denotes Inlet Protection Type A/B/C; S1'd. EC-6
	Denotes Permanent Seeding
	Denotes Sediment Basin with outlet pipe



VDOT PROJECT NO. 0638-076-209	SHEET NO. 10(4)
PWCDOT PROJECT NO. SPR2018-00271	

THESE PLANS ARE UNFINISHED AND UNAPPROVED AND ARE NOT TO BE USED FOR ANY TYPE OF CONSTRUCTION.

R/W PHASE PLANS

PROJECT MANAGER: EWCDOT - Khattab, Shammout, P.E. (703) 792-7193
SURVEYED BY, DATE: RDA - Ryan, Dreelin, LS (703) 334-9302, July 3, 2017
DESIGN BY: RDA - Mack, Gunn, P.E. (703) 334-9288
SUBSURFACE UTILITY BY, DATE: Accumark (703) 378-0100, August 1, 2017

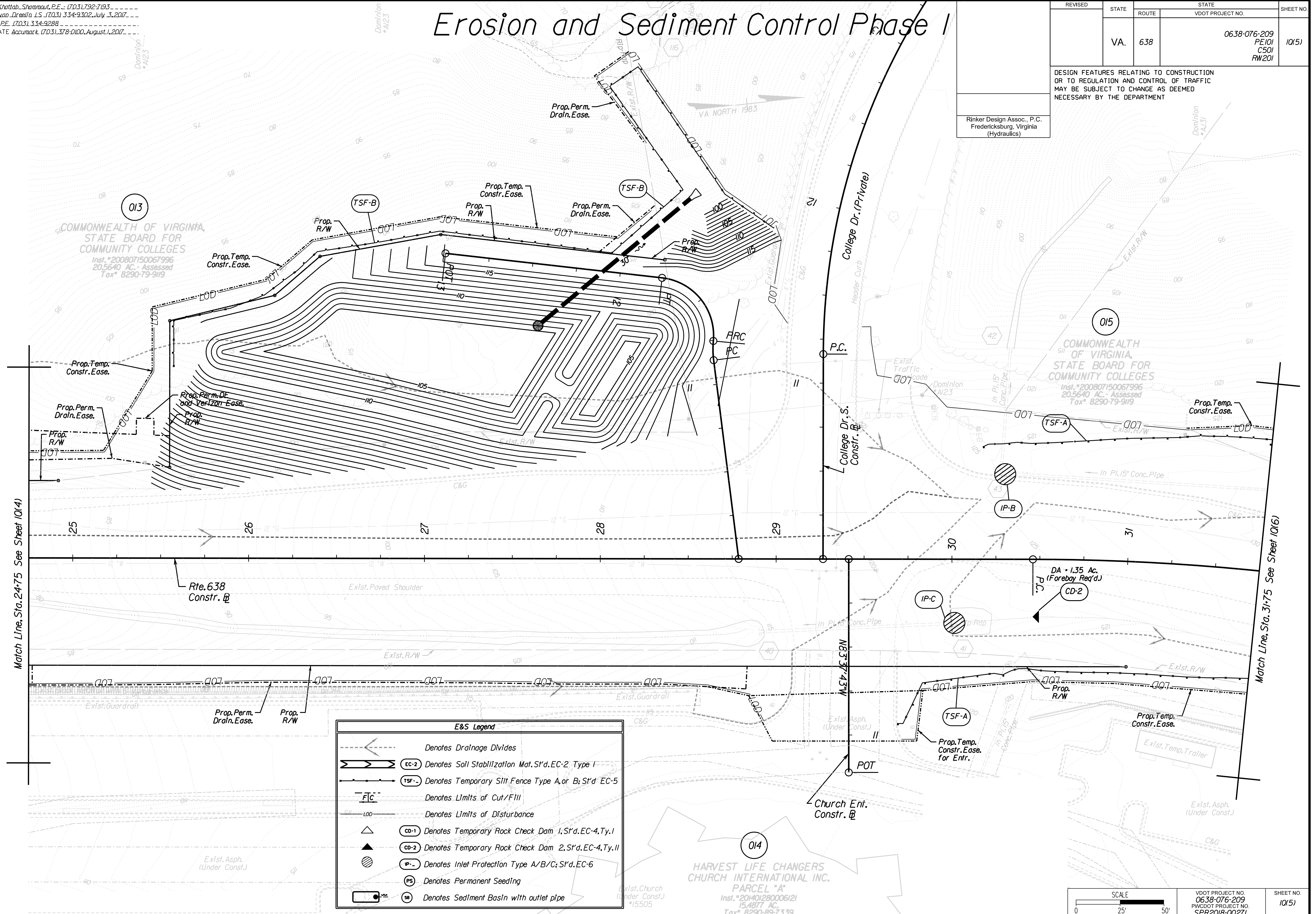
Erosion and Sediment Control Phase I

REVISED	STATE	ROUTE	STATE	VDOT PROJECT NO.	SHEET NO.
	VA.	638		0638-076-209 PE/01 CS/01 RW/201	1015

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
(Hydraulics)

Rinker Design Associates, P.C.
Civil Engineering, Surveying, Land Planning, Environmental, Transportation, Right of Way Services



	Denotes Drainage Divides
	EC-2 Denotes Soil Stabilization Mat, S't'd. EC-2 Type I
	TSF-A/B Denotes Temporary Silt Fence Type A, or B; S't'd. EC-5
	FIC Denotes Limits of Cut/Fill
	LOD Denotes Limits of Disturbance
	CD-1 Denotes Temporary Rock Check Dam 1, S't'd. EC-4, Ty. I
	CD-2 Denotes Temporary Rock Check Dam 2, S't'd. EC-4, Ty. II
	IP-A/B/C Denotes Inlet Protection Type A/B/C; S't'd. EC-6
	PS Denotes Permanent Seeding
	SB Denotes Sediment Basin with outlet pipe

SCALE 0 25' 50'	VDOT PROJECT NO. 0638-076-209 PWCDOT PROJECT NO. SPR2018-00271	SHEET NO. 1015
--------------------	---	-------------------

THESE PLANS ARE UNFINISHED AND UNAPPROVED AND ARE NOT TO BE USED FOR ANY TYPE OF CONSTRUCTION.

R/W PHASE PLANS

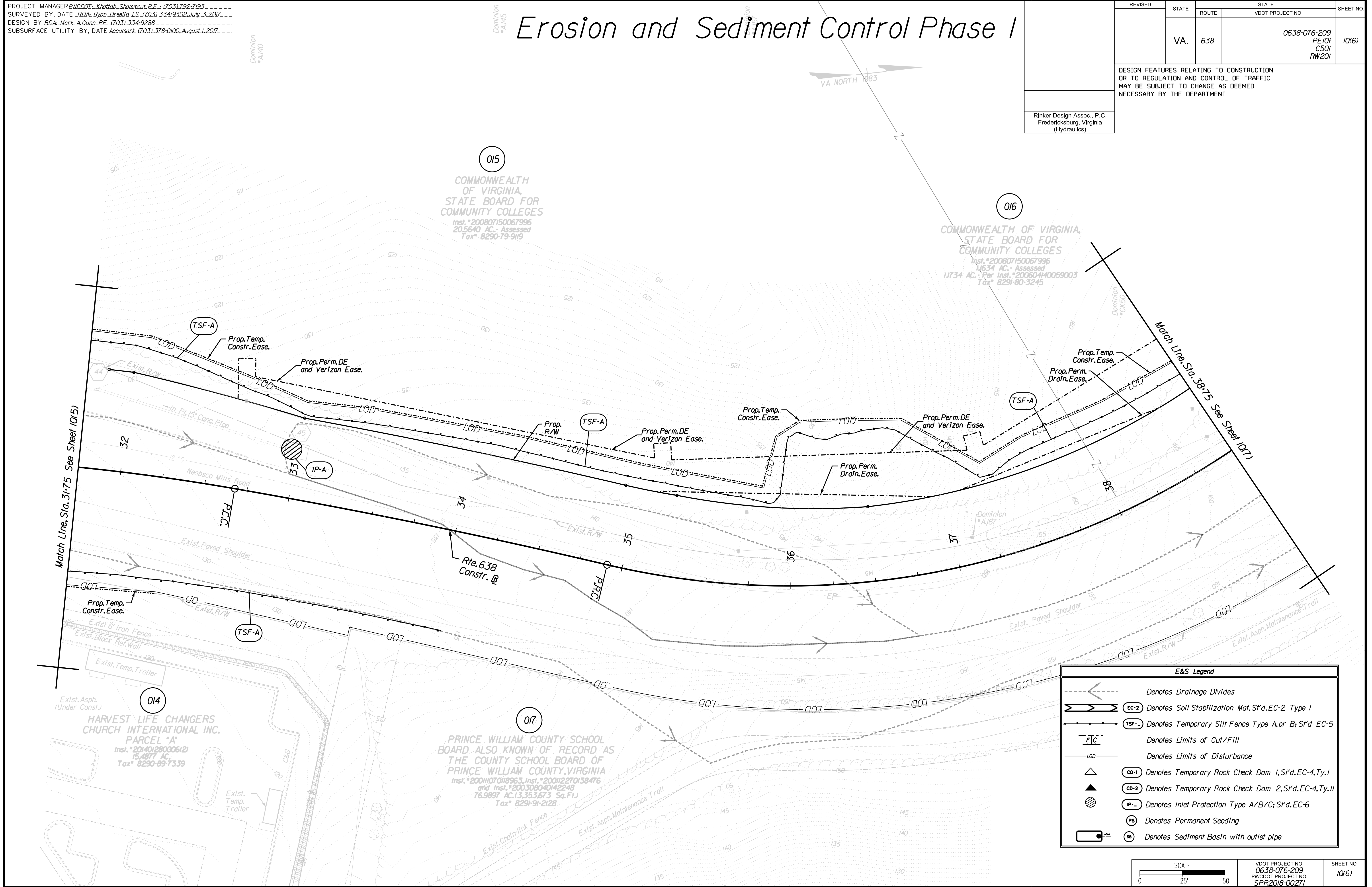
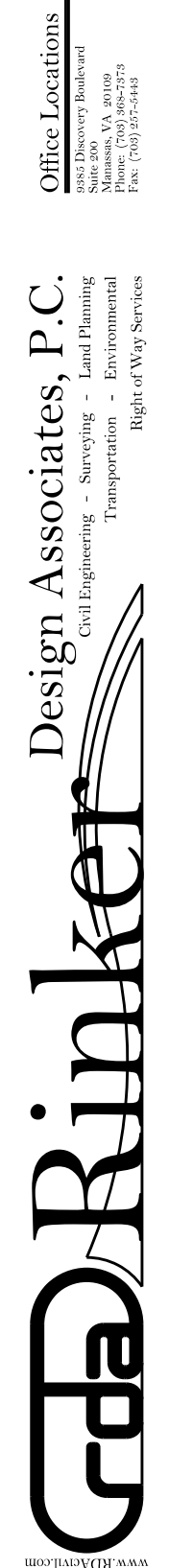
PROJECT MANAGER: EWCDOT - Khattab, Shammout, P.E. (703) 792-7193
SURVEYED BY, DATE: RDA: Ryan Dreella, LS (703) 334-9302, July 3, 2017
DESIGN BY: RDA: Mack, A. Gunn, P.E. (703) 334-9288
SUBSURFACE UTILITY BY, DATE: Accurack (703) 378-0100, August 1, 2017

Erosion and Sediment Control Phase I

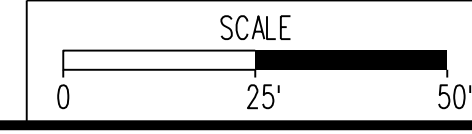
REVISED	STATE	ROUTE	STATE	VDOT PROJECT NO.	SHEET NO.
	VA.	638		0638-076-209 PE101 CS01 RW201	1016

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
(Hydraulics)



	Denotes Drainage Divides
	EC-2 Denotes Soil Stabilization Mat. S't'd. EC-2 Type I
	Denotes Temporary Silt Fence Type A, or B; S't'd. EC-5
	Denotes Limits of Cut/Fill
	Denotes Limits of Disturbance
	CO-1 Denotes Temporary Rock Check Dam 1, S't'd. EC-4, Ty. I
	CO-2 Denotes Temporary Rock Check Dam 2, S't'd. EC-4, Ty. II
	Denotes Inlet Protection Type A/B/C; S't'd. EC-6
	Denotes Permanent Seeding
	Denotes Sediment Basin with outlet pipe



VDOT PROJECT NO. 0638-076-209	SHEET NO. 1016
PWCDOT PROJECT NO. SPR2018-00271	

THESE PLANS ARE UNFINISHED AND UNAPPROVED AND ARE NOT TO BE USED FOR ANY TYPE OF CONSTRUCTION.

R/W PHASE PLANS

PROJECT MANAGER: WCDOT - Khattab, Shammout, P.E. (703) 792-7193
SURVEYED BY, DATE: RDA - Ryan, Dreelin, LS (703) 334-9302, July 3, 2017
DESIGN BY: RDA - Mack, Gunn, P.E. (703) 334-9288
SUBSURFACE UTILITY BY, DATE: Accumark (703) 378-0100, August 1, 2017

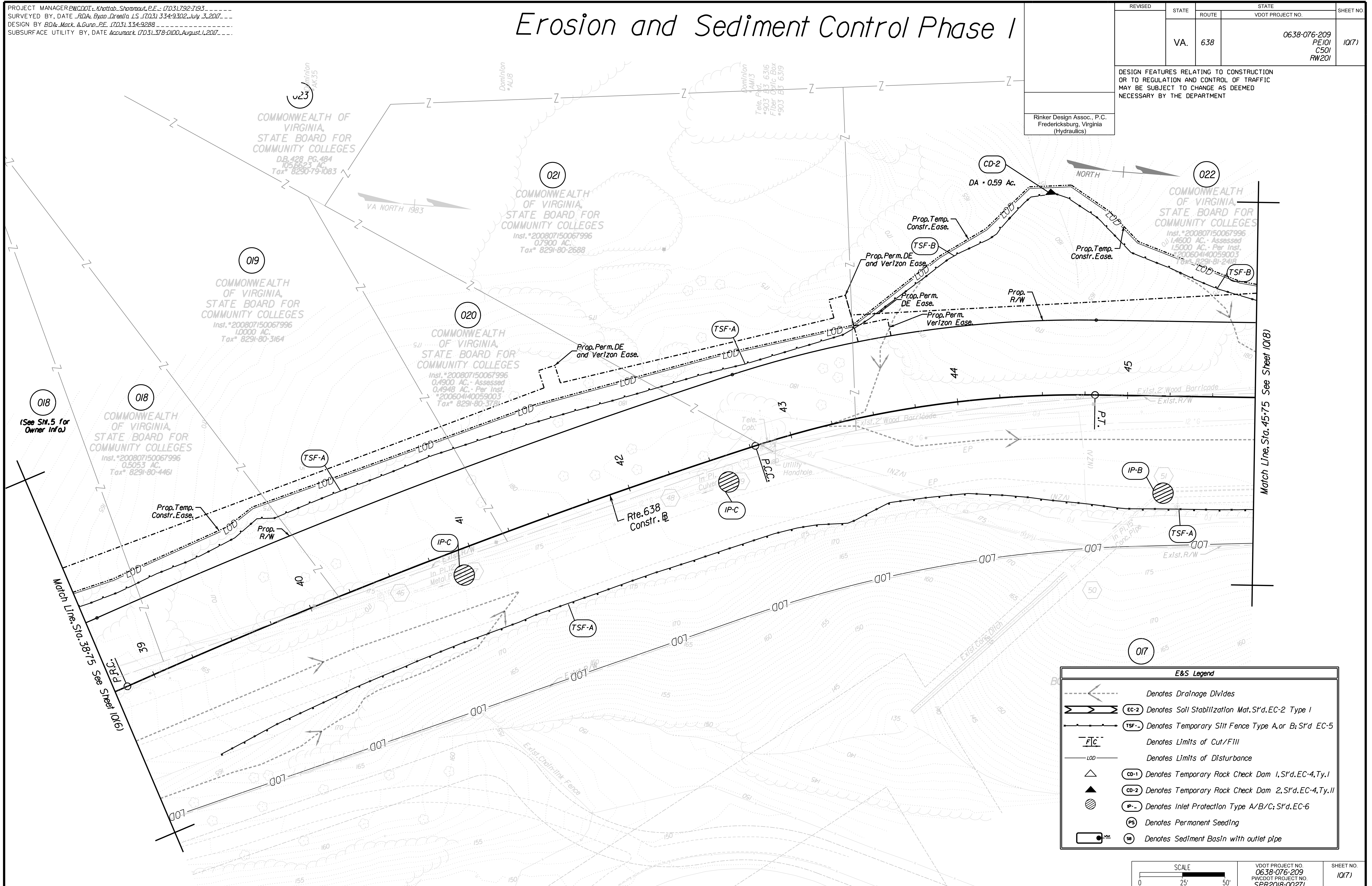
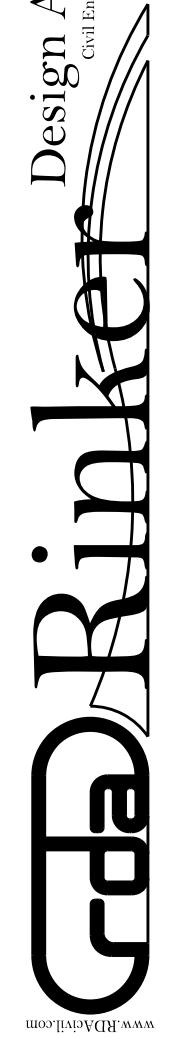
Erosion and Sediment Control Phase 1

REVISED	STATE		STATE	SHEET NO.
	ROUTE	VDOT PROJECT NO.		
	VA.	638	0638-076-209 PE101 CS01 RW201	10(7)

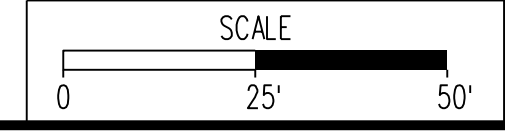
DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT

Rinker Design Assoc., P.C.
Fredericksburg, Virginia
(Hydraulics)

Design Associates, P.C.
Civil Engineering, Surveying, Land Planning, Transportation, Environmental, Right of Way Services



E&S Legend	
	Denotes Drainage Divides
	Denotes Soil Stabilization Mat. S'd. EC-2 Type I
	Denotes Temporary Slit Fence Type A, or B; S'd. EC-5
	Denotes Limits of Cut/Fill
	Denotes Limits of Disturbance
	Denotes Temporary Rock Check Dam 1, S'd. EC-4, Ty. I
	Denotes Temporary Rock Check Dam 2, S'd. EC-4, Ty. II
	Denotes Inlet Protection Type A/B/C; S'd. EC-6
	Denotes Permanent Seeding
	Denotes Sediment Basin with outlet pipe



VDOT PROJECT NO. 0638-076-209	SHEET NO. 10(7)
PWCDOT PROJECT NO. SPR2018-00271	

THESE PLANS ARE UNFINISHED AND UNAPPROVED AND ARE NOT TO BE USED FOR ANY TYPE OF CONSTRUCTION.

R/W PHASE PLANS

PROJECT MANAGER: EWCDOT - Khattab, Shamout, P.E. (703) 792-7193
SURVEYED BY, DATE: RDA - Ryan, Drealla, LS (703) 334-9302, July 3, 2017
DESIGN BY: RDA - Mack, Gunn, P.E. (703) 334-9288
SUBSURFACE UTILITY BY, DATE: Accumark (703) 378-0100, August 1, 2017

Erosion and Sediment Control Phase I

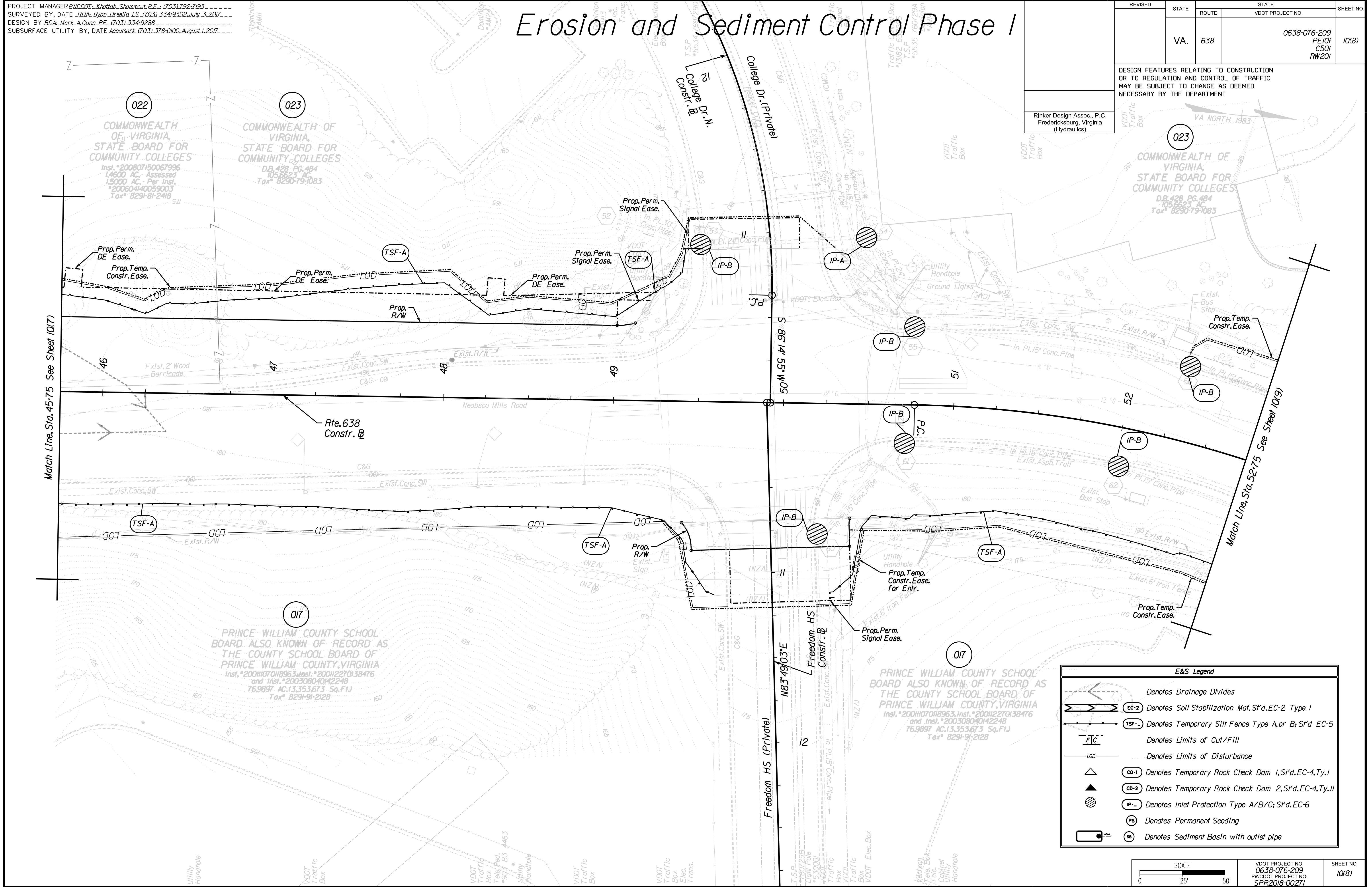
REVISED	STATE	STATE		SHEET NO.
	VA.	ROUTE	VDOT PROJECT NO.	
	VA.	638	0638-076-209	1018

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

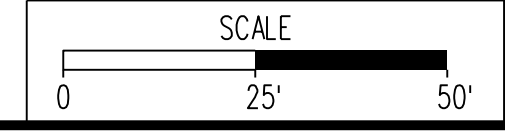
Rinker Design Assoc., P.C.
Fredericksburg, Virginia
(Hydraulics)

Design Associates, P.C.
Civil Engineering, Surveying, Land Planning, Transportation, Environmental, and Construction Services
Right of Way Services

5/2/2019



E&S Legend	
	Denotes Drainage Divides
	EC-2 Denotes Soil Stabilization Mat. S'd. EC-2 Type I
	TSF-A Denotes Temporary Silt Fence Type A, or B; S'd. EC-5
	Denotes Limits of Cut/Fill
	Denotes Limits of Disturbance
	CO-1 Denotes Temporary Rock Check Dam 1, S'd. EC-4, Ty. I
	CO-2 Denotes Temporary Rock Check Dam 2, S'd. EC-4, Ty. II
	IP-A Denotes Inlet Protection Type A/B/C; S'd. EC-6
	PS Denotes Permanent Seeding
	SB Denotes Sediment Basin with outlet pipe



VDOT PROJECT NO. 0638-076-209 PWCDOT PROJECT NO. SPR2018-00271	SHEET NO. 1018
---	-------------------

THESE PLANS ARE UNFINISHED AND UNAPPROVED AND ARE NOT TO BE USED FOR ANY TYPE OF CONSTRUCTION.

R/W PHASE PLANS

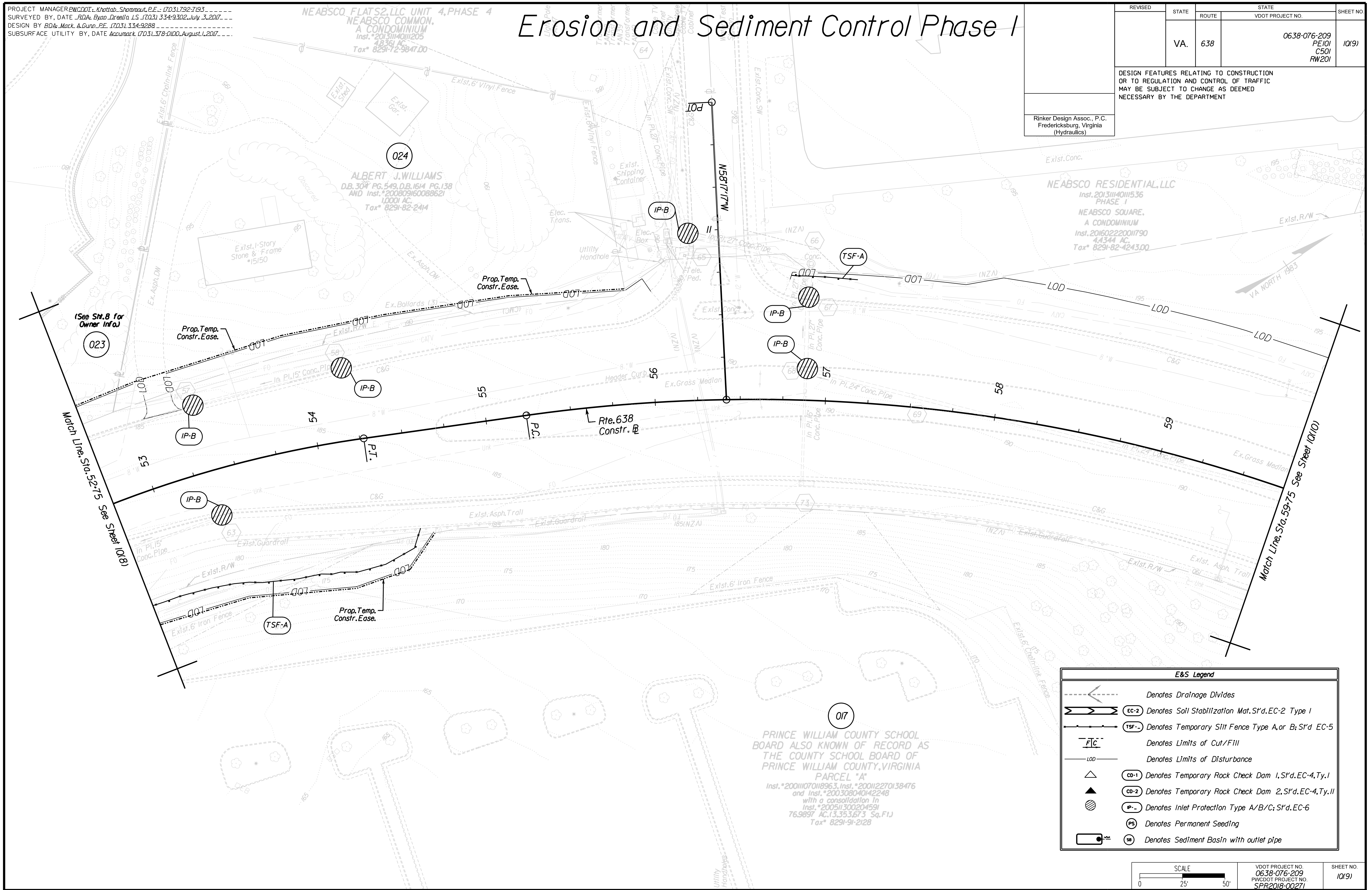
PROJECT MANAGER: EWCDOT - Khatib, Shamout, P.E. (703) 792-7193
SURVEYED BY, DATE: RDA: Ryan Drealet, LS (703) 334-9302, July 3, 2017
DESIGN BY: RDA: Mack, Gunn, P.E. (703) 334-9288
SUBSURFACE UTILITY BY, DATE: Accurack (703) 378-0100, August 1, 2017

NEABSCO FLATS 2, LLC UNIT 4, PHASE 4
NEABSCO COMMON,
A CONDOMINIUM
Inst. # 2013114011205
4,836 AC
Tax# 8291-72-9847.00

Erosion and Sediment Control Phase I

REVISED	STATE	STATE		SHEET NO.
	ROUTE	VDOT PROJECT NO.		
	VA.	638	0638-076-209 PE/01 CS/01 RW/201	1019
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 (Hydraulics)				

Rinker Design Associates, P.C.
Civil Engineering, Surveying, Land Planning, Transportation, Environmental
10000 Lakeside Drive, Suite 200
Fredericksburg, VA 22405
Phone: (540) 371-1100
Fax: (540) 371-1101
www.rinker.com



(See Sht. 8 for Owner Info)

Prop. Temp. Constr. Eas.

Prop. Temp. Constr. Eas.

Rte. 638 Constr. E.

Prop. Temp. Constr. Eas.

PRINCE WILLIAM COUNTY SCHOOL BOARD ALSO KNOWN OF RECORD AS THE COUNTY SCHOOL BOARD OF PRINCE WILLIAM COUNTY, VIRGINIA
PARCEL "A"
Inst. # 20011070118963, Inst. # 200112270138476 and Inst. # 200308040142248 with a consolidation in Inst. # 200511300204591
76,9897 AC, 13,353,673 Sq. Ft.
Tax# 8291-91-2128

E&S Legend	
	Denotes Drainage Divides
	EC-2 Denotes Soil Stabilization Mat, S't'd. EC-2 Type 1
	TSF-A, B Denotes Temporary Silt Fence Type A, or B; S't'd. EC-5
	Denotes Limits of Cut/Fill
	Denotes Limits of Disturbance
	CO-1 Denotes Temporary Rock Check Dam 1, S't'd. EC-4, Ty. 1
	CO-2 Denotes Temporary Rock Check Dam 2, S't'd. EC-4, Ty. 11
	IP-A, B Denotes Inlet Protection Type A/B/C; S't'd. EC-6
	PS Denotes Permanent Seeding
	SB Denotes Sediment Basin with outlet pipe

SCALE 0 25' 50'	VDOT PROJECT NO. 0638-076-209 PWCDOT PROJECT NO. SPR2018-00271	SHEET NO. 1019
--------------------	---	-------------------

THESE PLANS ARE UNFINISHED AND UNAPPROVED AND ARE NOT TO BE USED FOR ANY TYPE OF CONSTRUCTION.

R/W PHASE PLANS

PROJECT MANAGER EWCDOT - Khattab, Shamout, P.E. : (703) 792-7193
SURVEYED BY, DATE RDA: Bryan Drea, LS (703) 334-9302, July 3, 2017
DESIGN BY RDA: Mack, Gunn, P.E. (703) 334-9288
SUBSURFACE UTILITY BY, DATE Accumark (703) 378-0100, August 1, 2017

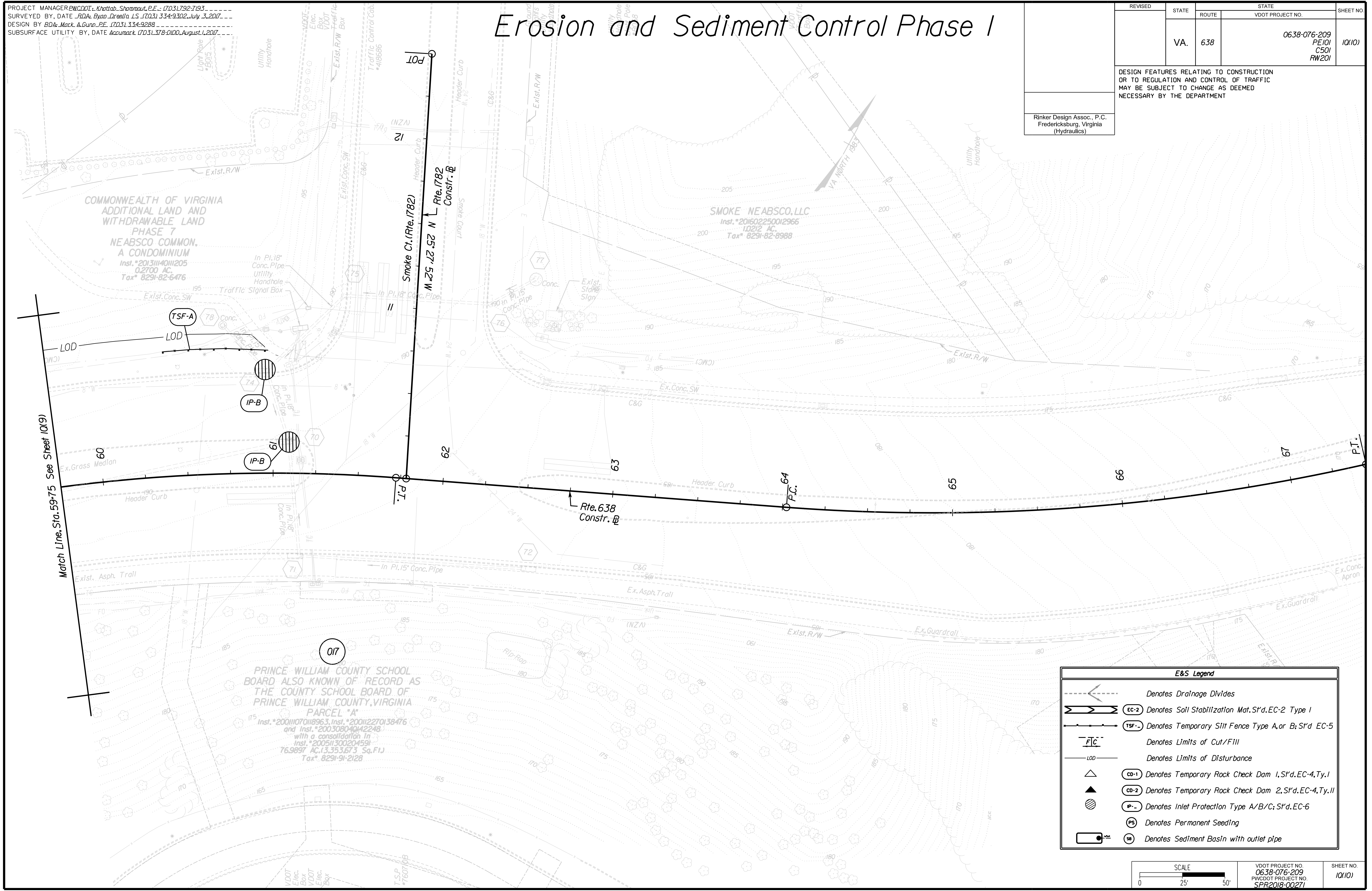
Erosion and Sediment Control Phase I

REVISED	STATE		STATE	SHEET NO.
	ROUTE	VDOT PROJECT NO.		
	VA.	638	0638-076-209 PE101 CS01 RW201	IQ101

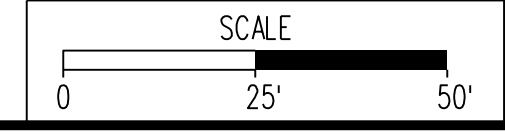
DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT

Rinker Design Assoc., P.C.
Fredericksburg, Virginia
(Hydraulics)

Rinker Design Associates, P.C.
Civil Engineering, Surveying, Land Planning, Transportation, Environmental, Right-of-Way Services



	Denotes Drainage Divides
	Denotes Soil Stabilization Mat. S't'd. EC-2 Type 1
	Denotes Temporary Silt Fence Type A, or B; S't'd. EC-5
	Denotes Limits of Cut/Fill
	Denotes Limits of Disturbance
	Denotes Temporary Rock Check Dam 1, S't'd. EC-4, Ty. 1
	Denotes Temporary Rock Check Dam 2, S't'd. EC-4, Ty. 11
	Denotes Inlet Protection Type A/B/C; S't'd. EC-6
	Denotes Permanent Seeding
	Denotes Sediment Basin with outlet pipe



VDOT PROJECT NO. 0638-076-209 PWCDOT PROJECT NO. SPR2018-00271	SHEET NO. IQ101
---	--------------------

THESE PLANS ARE UNFINISHED AND UNAPPROVED AND ARE NOT TO BE USED FOR ANY TYPE OF CONSTRUCTION.

R/W PHASE PLANS

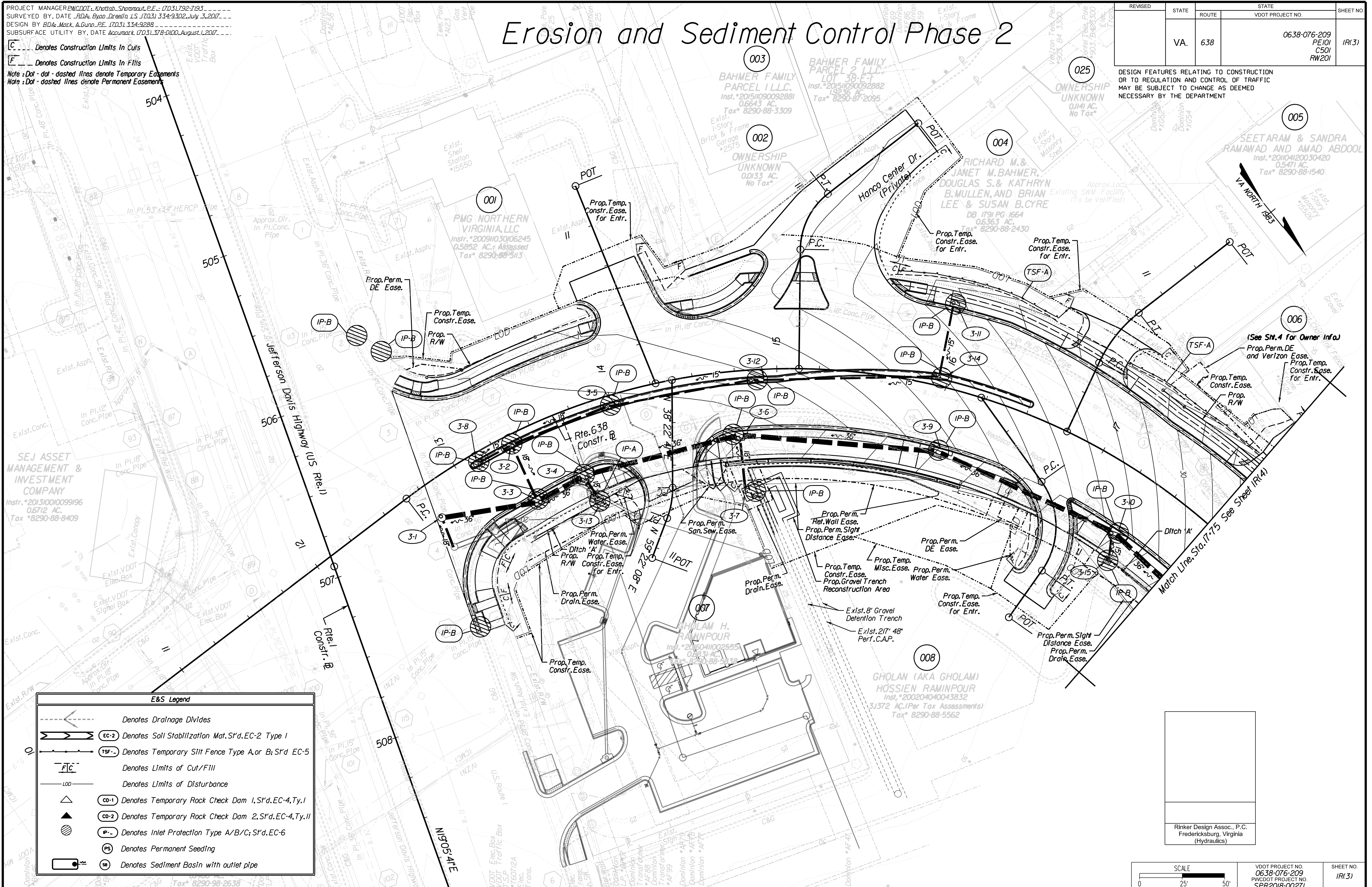
PROJECT MANAGER: EWCDOT - Khattab, Shammout, P.E. : (703) 792-7193
SURVEYED BY, DATE: RDA: Bryan Drea/LS (703) 334-9302, July 3, 2017
DESIGN BY: RDA: Mack, Gunn, P.E. (703) 334-9288
SUBSURFACE UTILITY BY, DATE: Accurack (703) 378-0100, August 1, 2017

Erosion and Sediment Control Phase 2

REVISED	STATE	ROUTE	STATE	VDOT PROJECT NO.	SHEET NO.
	VA.	638		0638-076-209 PE101 CS01 RW201	IR(3)

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

C Denotes Construction Limits In Cuts
F Denotes Construction Limits In Fills
Note: Dot-dot-dashed lines denote Temporary Easements
Note: Dot-dashed lines denote Permanent Easements



Cda Rinker
Design Associates, P.C.
Civil Engineering, Surveying, Land Planning, Transportation, Environmental, Construction Management, Right of Way Services

SEJ ASSET MANAGEMENT & INVESTMENT COMPANY
Instr. #20131001099196
0.6712 AC.
Tax #8290-88-8409

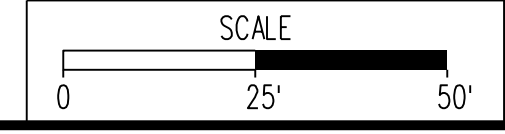
Rte. 638
Constr. B

GHOLAN (AKA GHOLAM) HOSSIEI RAMINPOUR
Instr. #200204040043832
31372 AC. (Per Tax Assessments)
Tax #8290-88-5562

E&S Legend

	Denotes Drainage Divides
	Denotes Soil Stabilization Mat. S'd. EC-2 Type 1
	Denotes Temporary Silt Fence Type A or B; S'd. EC-5
	Denotes Limits of Cut/Fill
	Denotes Limits of Disturbance
	Denotes Temporary Rock Check Dam 1, S'd. EC-4, Ty. I
	Denotes Temporary Rock Check Dam 2, S'd. EC-4, Ty. II
	Denotes Inlet Protection Type A/B/C; S'd. EC-6
	Denotes Permanent Seeding
	Denotes Sediment Basin with outlet pipe

Rinker Design Assoc., P.C.
Fredericksburg, Virginia
(Hydraulics)



VDOT PROJECT NO. 0638-076-209 PWCDOT PROJECT NO. SPR2018-00271	SHEET NO. IR(3)
---	--------------------

THESE PLANS ARE UNFINISHED AND UNAPPROVED AND ARE NOT TO BE USED FOR ANY TYPE OF CONSTRUCTION.

R/W PHASE PLANS

PROJECT MANAGER: EWCDOT - Khattab, Shammout, P.E. : (703) 792-7193
SURVEYED BY, DATE: RDA: Bryan Dreelin, L.S. (703) 334-9302, July 3, 2017
DESIGN BY: RDA: Mack, Gunn, P.E. (703) 334-9288
SUBSURFACE UTILITY BY, DATE: Accurmark (703) 378-0100, August 1, 2017

Erosion and Sediment Control Phase 2

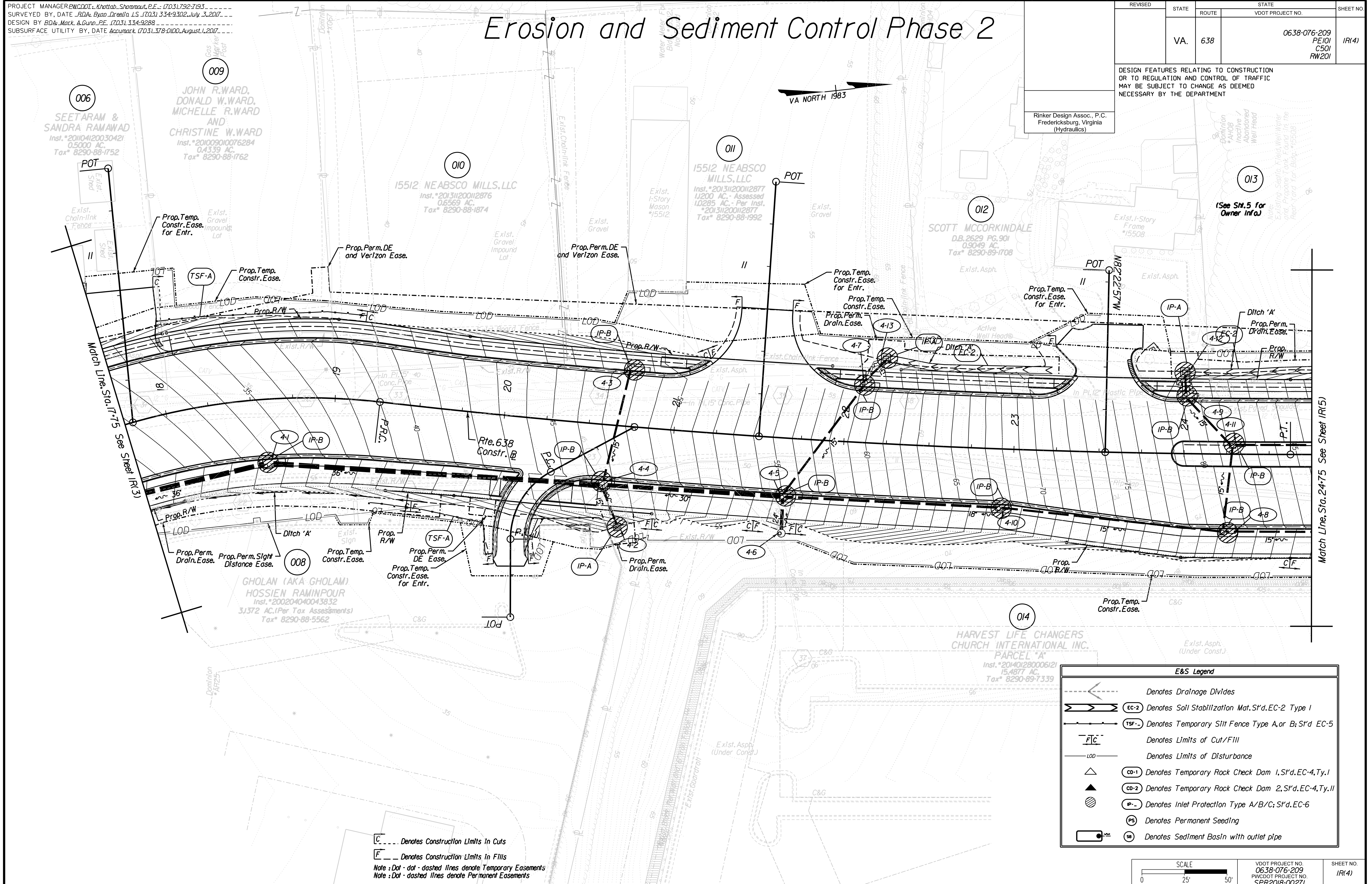
REVISED	STATE	ROUTE	STATE	VDOT PROJECT NO.	SHEET NO.
	VA.	638		0638-076-209 PE101 CS01 RW201	IR(4)

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

Rinker Design Assoc., P.C.
Fredericksburg, Virginia
(Hydraulics)

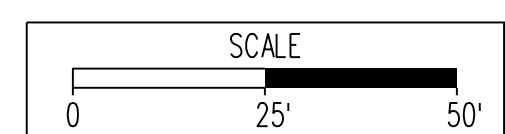


Rinker Design Associates, P.C.
Civil Engineering, Surveying, Land Planning, Transportation, Environmental, Right of Way Services



E&S Legend	
	Denotes Drainage Divides
	Denotes Soil Stabilization Mat. S'd. EC-2 Type I
	Denotes Temporary Silt Fence Type A, or B; S'd. EC-5
	Denotes Limits of Cut/Fill
	Denotes Limits of Disturbance
	Denotes Temporary Rock Check Dam 1, S'd. EC-4, Ty. I
	Denotes Temporary Rock Check Dam 2, S'd. EC-4, Ty. II
	Denotes Inlet Protection Type A/B/C; S'd. EC-6
	Denotes Permanent Seeding
	Denotes Sediment Basin with outlet pipe

Denotes Construction Limits in Cuts
 Denotes Construction Limits in Fills
 Note : Dot - dot - dashed lines denote Temporary Easements
 Note : Dot - dashed lines denote Permanent Easements



VDOT PROJECT NO. 0638-076-209	SHEET NO. IR(4)
PWCDOT PROJECT NO. SPR2018-00271	

THESE PLANS ARE UNFINISHED AND UNAPPROVED AND ARE NOT TO BE USED FOR ANY TYPE OF CONSTRUCTION.

R/W PHASE PLANS

PROJECT MANAGER PWCDOT: Khattab, Shammout, P.E.: (703) 792-7193
SURVEYED BY, DATE RDA: Ryan, Dreelin, LS (703) 334-9302, July 3, 2017
DESIGN BY RDA: Mack, Gunn, P.E. (703) 334-9288
SUBSURFACE UTILITY BY, DATE Accurack, (703) 378-0100, August 1, 2017

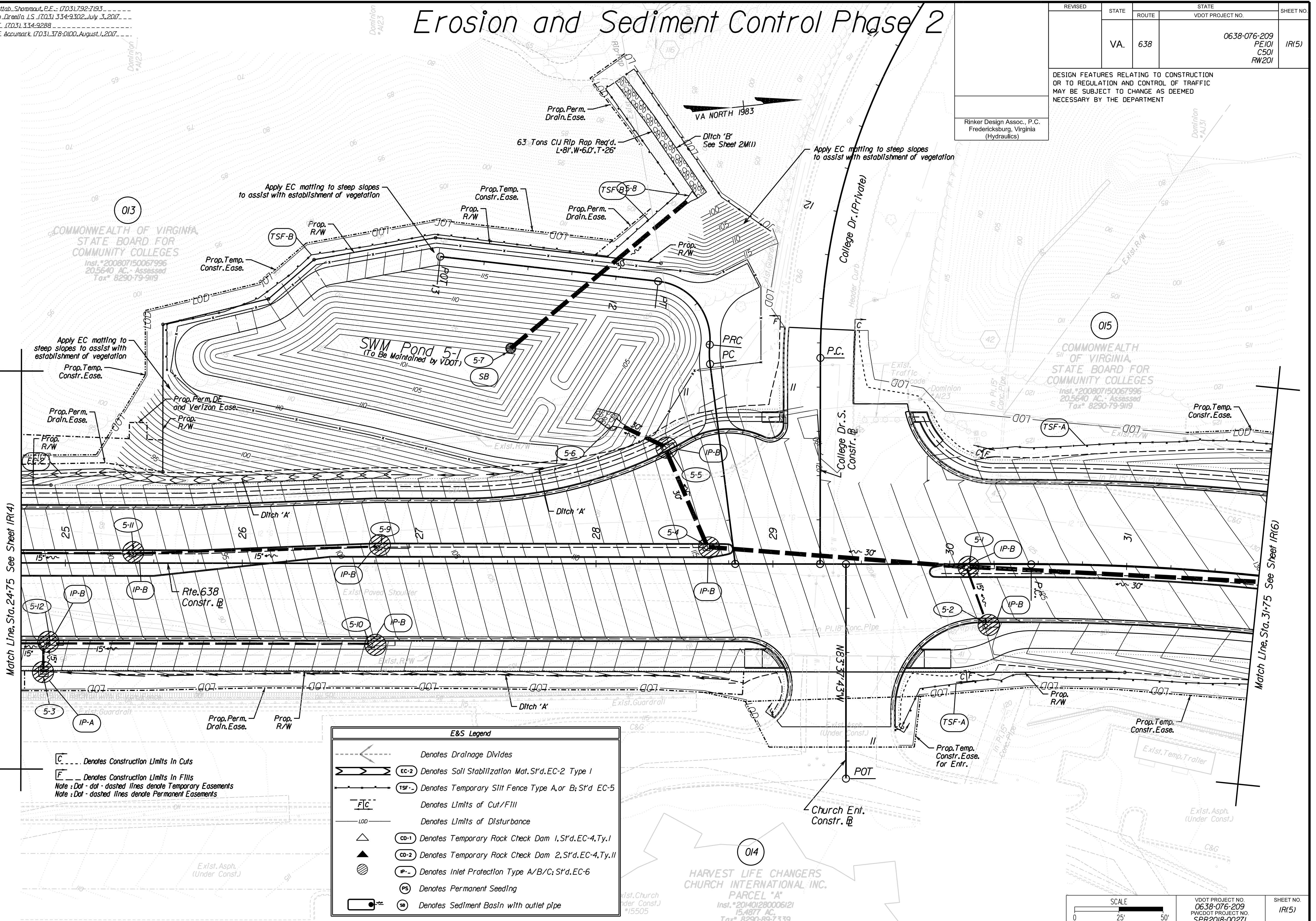
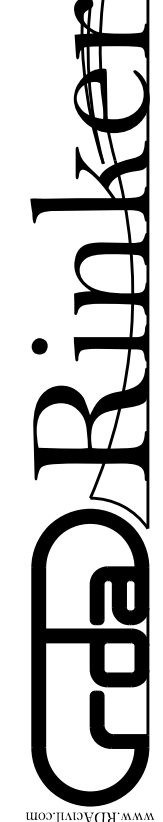
Erosion and Sediment Control Phase 2

REVISED	STATE	ROUTE	STATE	VDOT PROJECT NO.	SHEET NO.
	VA.	638		0638-076-209 PE/01 CS/01 RW/201	IR(5)

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
(Hydraulics)

Office Locations
Design Associates, P.C.
Civil Engineering, Surveying, Land Planning, Transportation, Environmental, Right of Way Services



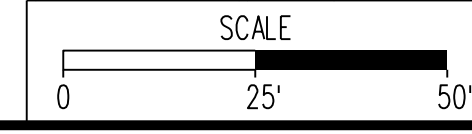
Match Line, Sta. 24+75 See Sheet IR(4)

Match Line, Sta. 31+75 See Sheet IR(6)

--- Denotes Construction Limits In Cuts
--- Denotes Construction Limits In Fills
Note: Dot-dot-dashed lines denote Temporary Easements
Note: Dot-dashed lines denote Permanent Easements

E&S Legend	
	Denotes Drainage Divides
	(EC-2) Denotes Soil Stabilization Mat, S'd, EC-2 Type I
	(TSF-A) Denotes Temporary Silt Fence Type A, or B; S'd, EC-5
	Denotes Limits of Cut/Fill
	Denotes Limits of Disturbance
	(CD-1) Denotes Temporary Rock Check Dam 1, S'd, EC-4, Ty. I
	(CD-2) Denotes Temporary Rock Check Dam 2, S'd, EC-4, Ty. II
	(IP-A) Denotes Inlet Protection Type A/B/C; S'd, EC-6
	(PS) Denotes Permanent Seeding
	(SB) Denotes Sediment Basin with outlet pipe

HARVEST LIFE CHANGERS CHURCH INTERNATIONAL INC. PARCEL "A"
Inst. #201401280006121
15,4877 AC.
Tax# 8290-897339



VDOT PROJECT NO. 0638-076-209 PWCDOT PROJECT NO. SPR2018-00271	SHEET NO. IR(5)
---	--------------------

THESE PLANS ARE UNFINISHED AND UNAPPROVED AND ARE NOT TO BE USED FOR ANY TYPE OF CONSTRUCTION.

R/W PHASE PLANS

PROJECT MANAGER: EWCDOT - Khatib, Shamout, P.E. (703) 792-7193
SURVEYED BY, DATE: RDA: Bryan Dreel, LS (703) 334-9302, July 3, 2017
DESIGN BY: RDA: Mack, Gunn, P.E. (703) 334-9288
SUBSURFACE UTILITY BY, DATE: Accurack (703) 378-0100, August 1, 2017

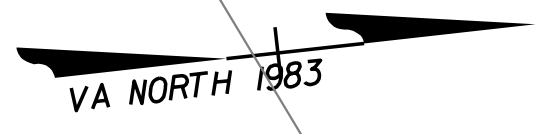
Erosion and Sediment Control Phase 2

REVISED	STATE		STATE	SHEET NO.
	ROUTE	VDOT PROJECT NO.		
	VA.	638	0638-076-209 PE101 CS01 RW201	IR(6)

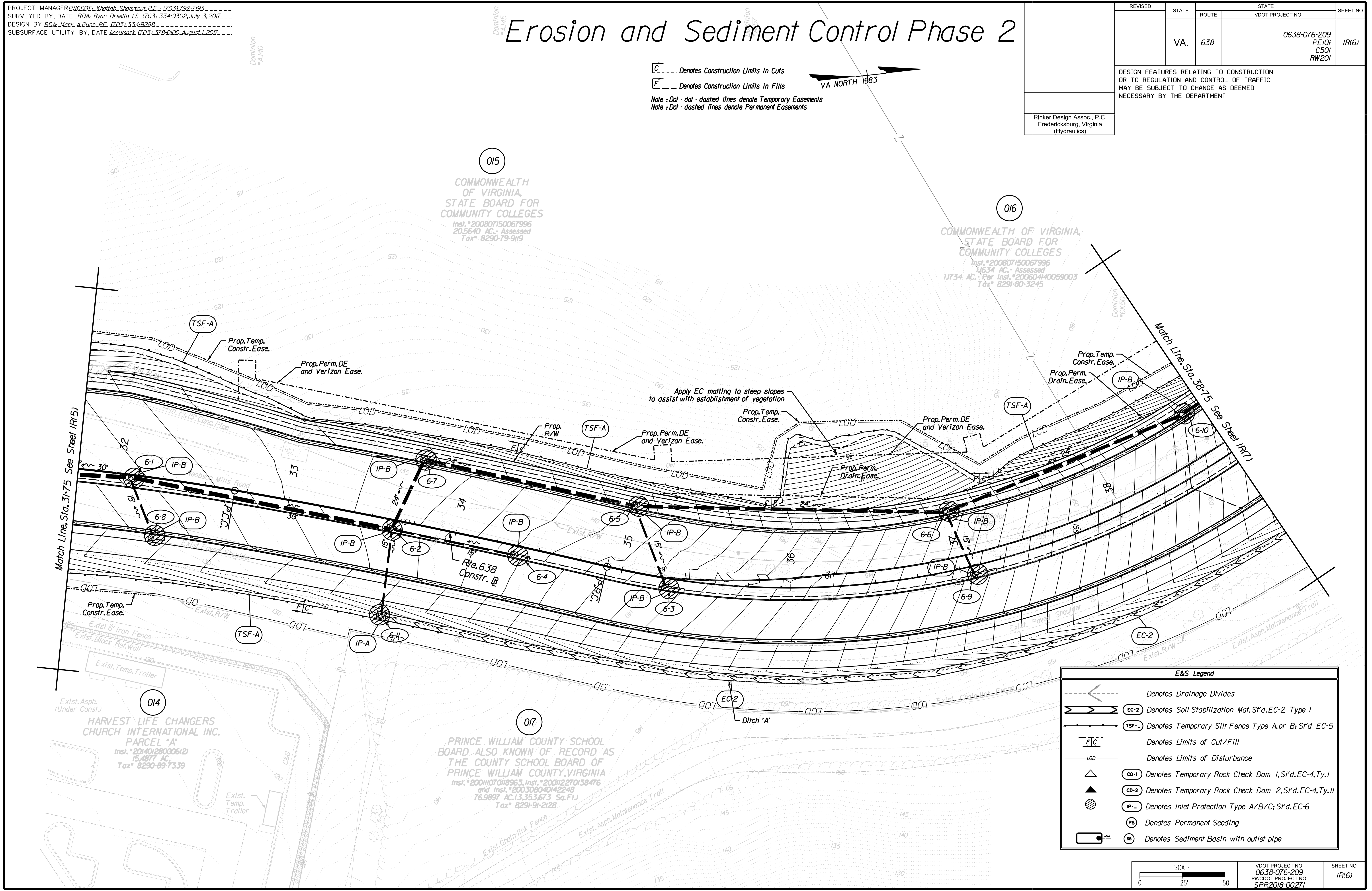
DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT

Rinker Design Assoc., P.C.
Fredericksburg, Virginia
(Hydraulics)

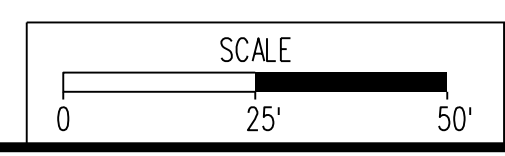
Denotes Construction Limits in Cuts
 Denotes Construction Limits in Fills
 Note: Dot-dot-dashed lines denote Temporary Easements
 Note: Dot-dashed lines denote Permanent Easements



Rinker Design Associates, P.C.
 Civil Engineering, Surveying, Land Planning, Transportation, Environmental, Right of Way Services
 10000 Rinker Blvd., Suite 200
 Fredericksburg, VA 22401
 Phone: (540) 361-1100
 Fax: (540) 361-1101
 Website: www.rinker.com



	Denotes Drainage Divides
	EC-2 Denotes Soil Stabilization Mat. S'd. EC-2 Type I
	TSF-- Denotes Temporary Silt Fence Type A, or B; S'd. EC-5
	FIC Denotes Limits of Cut/Fill
	LOD Denotes Limits of Disturbance
	CD-1 Denotes Temporary Rock Check Dam 1, S'd. EC-4, Ty. I
	CD-2 Denotes Temporary Rock Check Dam 2, S'd. EC-4, Ty. II
	IP-- Denotes Inlet Protection Type A/B/C; S'd. EC-6
	PS Denotes Permanent Seeding
	SB Denotes Sediment Basin with outlet pipe



VDOT PROJECT NO. 0638-076-209	SHEET NO. IR(6)
PWCDOT PROJECT NO. SPR2018-00271	

THESE PLANS ARE UNFINISHED AND UNAPPROVED AND ARE NOT TO BE USED FOR ANY TYPE OF CONSTRUCTION.

R/W PHASE PLANS

PROJECT MANAGER: EWCDOT - Khattab, Shammout, P.E. : (703) 792-7193
SURVEYED BY, DATE: RDA: Ryan, Dreel'a, L.S. (703) 334-9302, July 3, 2017
DESIGN BY: RDA: Mack, Gunn, P.E. (703) 334-9288
SUBSURFACE UTILITY BY, DATE: Accurmark (703) 378-0100, August 1, 2017

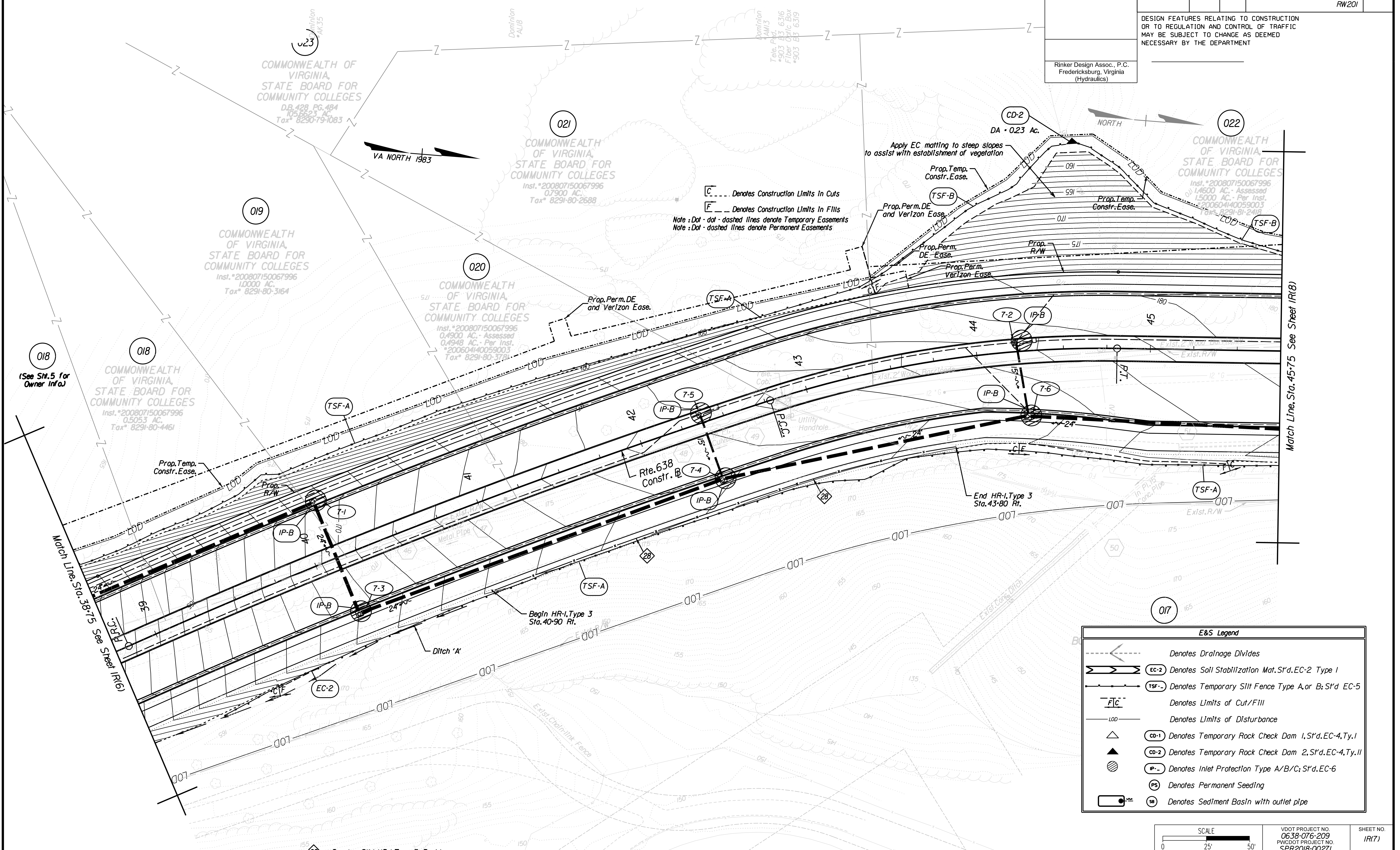
Erosion and Sediment Control Phase 2

REVISED	STATE	ROUTE	STATE	VDOT PROJECT NO.	SHEET NO.
	VA.	638		0638-076-209 PE101 CS01 RW201	IR(7)

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

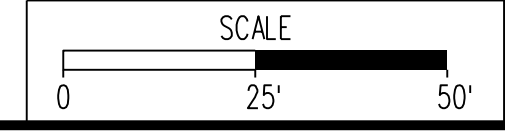
Rinker Design Assoc., P.C.
Fredericksburg, Virginia
(Hydraulics)

Design Associates, P.C.
Civil Engineering, Surveying, Land Planning, Transportation, Environmental, Right of Way Services



[C] --- Denotes Construction Limits in Cuts
 [F] --- Denotes Construction Limits in Fills
 Note: Dot - dot - dashed lines denote Temporary Easements
 Note: Dot - dashed lines denote Permanent Easements

E&S Legend	
	Denotes Drainage Divides
	EC-2 Denotes Soil Stabilization Mat, S'd. EC-2 Type 1
	TSF-A/B Denotes Temporary Silt Fence Type A, or B; S'd. EC-5
	Denotes Limits of Cut/Fill
	Denotes Limits of Disturbance
	CD-1 Denotes Temporary Rock Check Dam 1, S'd. EC-4, Ty. I
	CD-2 Denotes Temporary Rock Check Dam 2, S'd. EC-4, Ty. II
	IP-A/B/C Denotes Inlet Protection Type A/B/C; S'd. EC-6
	PS Denotes Permanent Seeding
	SB Denotes Sediment Basin with outlet pipe



VDOT PROJECT NO. 0638-076-209
 PWCDOT PROJECT NO. SPR2018-00271
 SHEET NO. IR(7)

THESE PLANS ARE UNFINISHED AND UNAPPROVED AND ARE NOT TO BE USED FOR ANY TYPE OF CONSTRUCTION.

R/W PHASE PLANS

PROJECT MANAGER: EWCDOT - Khattab, Shammaul, P.E. (703) 792-7193
SURVEYED BY, DATE: RDA: Ryan Drealla, LS (703) 334-9302, July 3, 2017
DESIGN BY: RDA: Mack, Gunn, P.E. (703) 334-9288
SUBSURFACE UTILITY BY, DATE: Accumark (703) 378-0100, August 1, 2017

Erosion and Sediment Control Phase 2

C --- Denotes Construction Limits in Cuts
F --- Denotes Construction Limits in Fills
Note: Dot-dot-dashed lines denote Temporary Easements
Note: Dot-dashed lines denote Permanent Easements

REVISED	STATE	ROUTE	STATE	VDOT PROJECT NO.	SHEET NO.
	VA.	638		0638-076-209 PE101 CS01 RW201	IR(8)

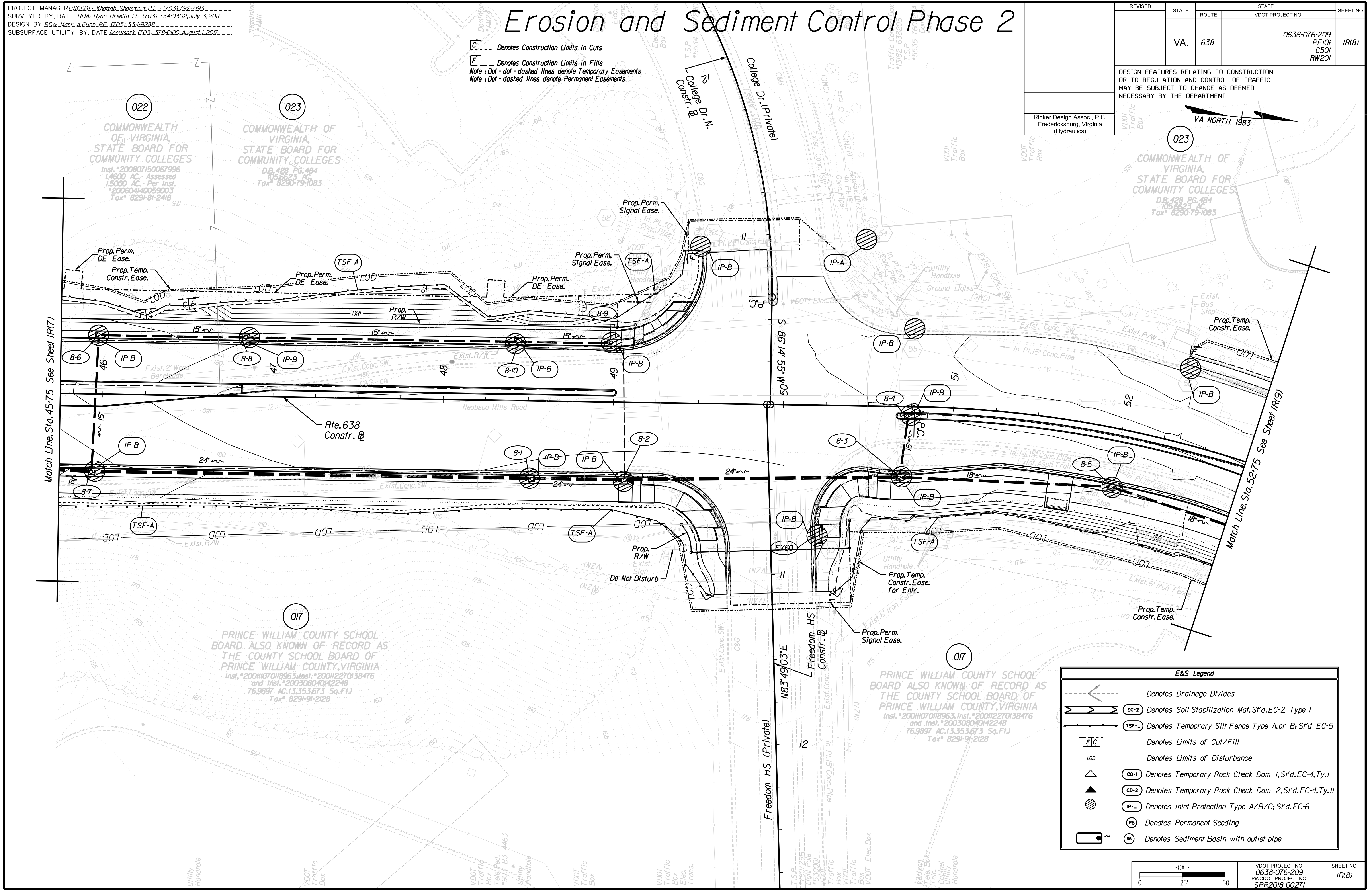
DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT

Rinker Design Assoc., P.C.
Fredericksburg, Virginia
(Hydraulics)

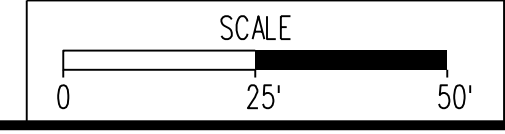


Rinker Design Associates, P.C.
Civil Engineering, Surveying, Land Planning, Environmental, Transportation, Right of Way Services

5/2/2019



E&S Legend	
	Denotes Drainage Divides
	EC-2 Denotes Soil Stabilization Mat, S'd. EC-2 Type I
	TSF-- Denotes Temporary Silt Fence Type A, or B; S'd. EC-5
	FC--- Denotes Limits of Cut/Fill
	LOD--- Denotes Limits of Disturbance
	CD-1 Denotes Temporary Rock Check Dam 1, S'd. EC-4, Ty. I
	CD-2 Denotes Temporary Rock Check Dam 2, S'd. EC-4, Ty. II
	IP-- Denotes Inlet Protection Type A/B/C; S'd. EC-6
	PS Denotes Permanent Seeding
	SB Denotes Sediment Basin with outlet pipe



VDOT PROJECT NO. 0638-076-209 PWCDOT PROJECT NO. SPR2018-00271	SHEET NO. IR(8)
---	--------------------

THESE PLANS ARE UNFINISHED AND UNAPPROVED AND ARE NOT TO BE USED FOR ANY TYPE OF CONSTRUCTION.

R/W PHASE PLANS

PROJECT MANAGER EWCDOT - Khattab, Shamout, P.E. : (703) 792-7193
SURVEYED BY, DATE RDA: Bryan Dreelin, LS (703) 334-9302, July 3, 2017
DESIGN BY RDA: Mack & Gunn, P.E. (703) 334-9288
SUBSURFACE UTILITY BY, DATE Accurmark (703) 378-0100, August 1, 2017

NEABSCO FLATS 2, LLC UNIT 4, PHASE 4
NEABSCO COMMON,
A CONDOMINIUM
Inst. # 2013114011205
4.836 AC
Tax# 8291-72-9847.00

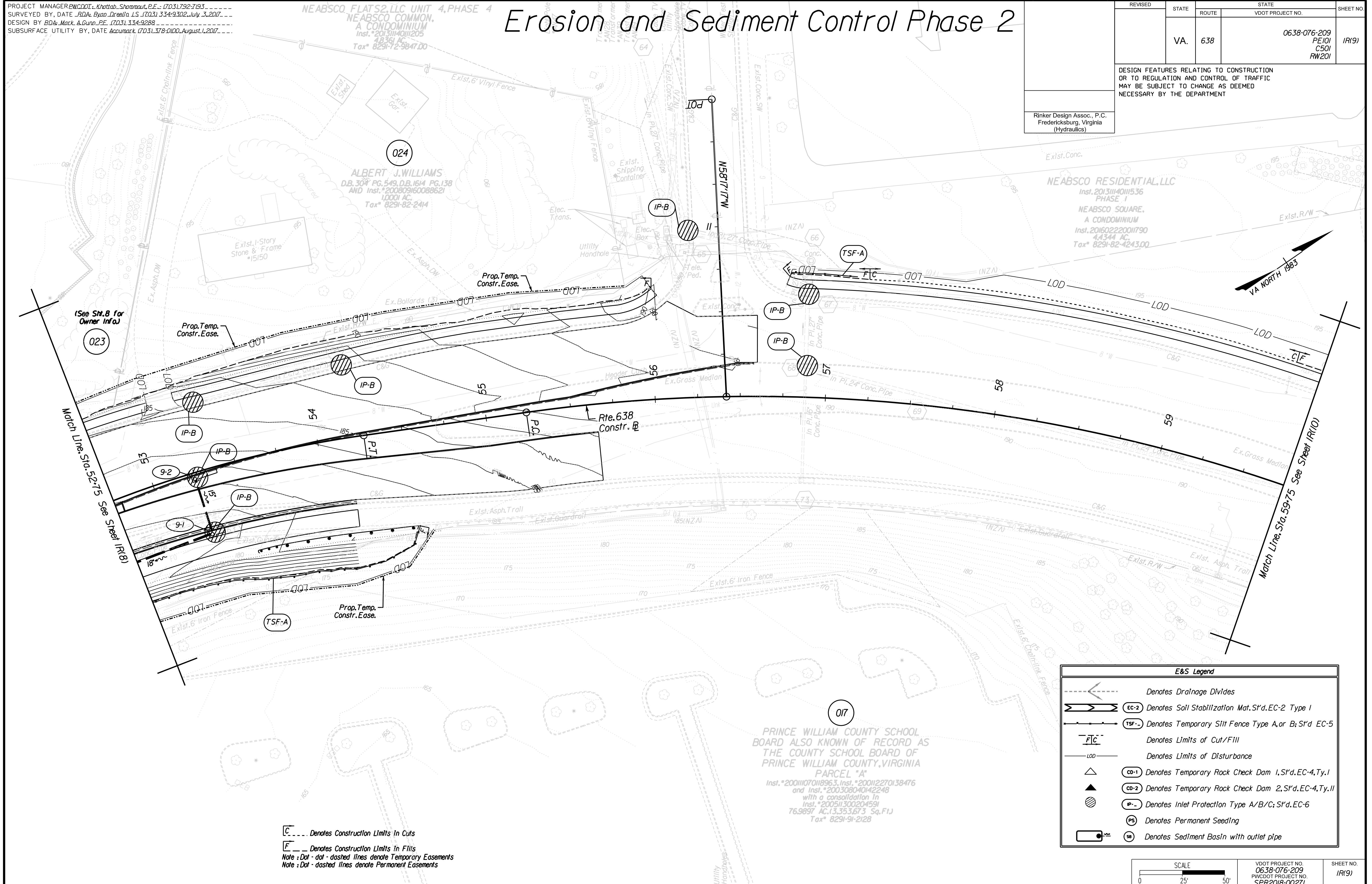
Erosion and Sediment Control Phase 2

REVISED	STATE		STATE	SHEET NO.
	ROUTE	VDOT PROJECT NO.		
	VA.	638	0638-076-209 PE101 CS01 RW201	IR(9)

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

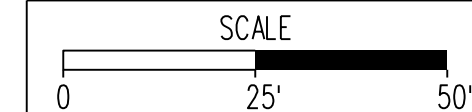
Rinker Design Assoc., P.C.
Fredericksburg, Virginia
(Hydraulics)

Rinker Design Associates, P.C.
Civil Engineering, Surveying, Land Planning, Transportation, Environmental, and Construction Services
10000 Woodloch Forest Drive, Suite 200, Fredericksburg, VA 22409
Phone: (540) 368-8800 Fax: (540) 368-8801
www.rinker.com



C --- Denotes Construction Limits In Cuts
E --- Denotes Construction Limits In Fills
Note : Dot - dot - dashed lines denote Temporary Easements
Note : Dot - dashed lines denote Permanent Easements

E&S Legend	
	Denotes Drainage Divides
	EC-2 Denotes Soil Stabilization Mat. S'd. EC-2 Type 1
	TSF-- Denotes Temporary Silt Fence Type A, or B; S'd. EC-5
	FIC Denotes Limits of Cut/Fill
	LOD Denotes Limits of Disturbance
	CD-1 Denotes Temporary Rock Check Dam 1, S'd. EC-4, Ty. I
	CD-2 Denotes Temporary Rock Check Dam 2, S'd. EC-4, Ty. II
	IP-- Denotes Inlet Protection Type A/B/C; S'd. EC-6
	PS Denotes Permanent Seeding
	SB Denotes Sediment Basin with outlet pipe



VDOT PROJECT NO. 0638-076-209 PWCDOT PROJECT NO. SPR2018-00271	SHEET NO. IR(9)
---	--------------------

THESE PLANS ARE UNFINISHED AND UNAPPROVED AND ARE NOT TO BE USED FOR ANY TYPE OF CONSTRUCTION.

R/W PHASE PLANS

Erosion and Sediment Control Phase 2

PROJECT MANAGER EW/COT: Khattab, Shamout, P.E.: (703) 792-7193
SURVEYED BY, DATE RDA: Bryan Drea/LS (703) 334-9302, July 3, 2017
DESIGN BY RDA: Mack & Gunn, P.E. (703) 334-9288
SUBSURFACE UTILITY BY, DATE Accumark (703) 378-0100, August 1, 2017

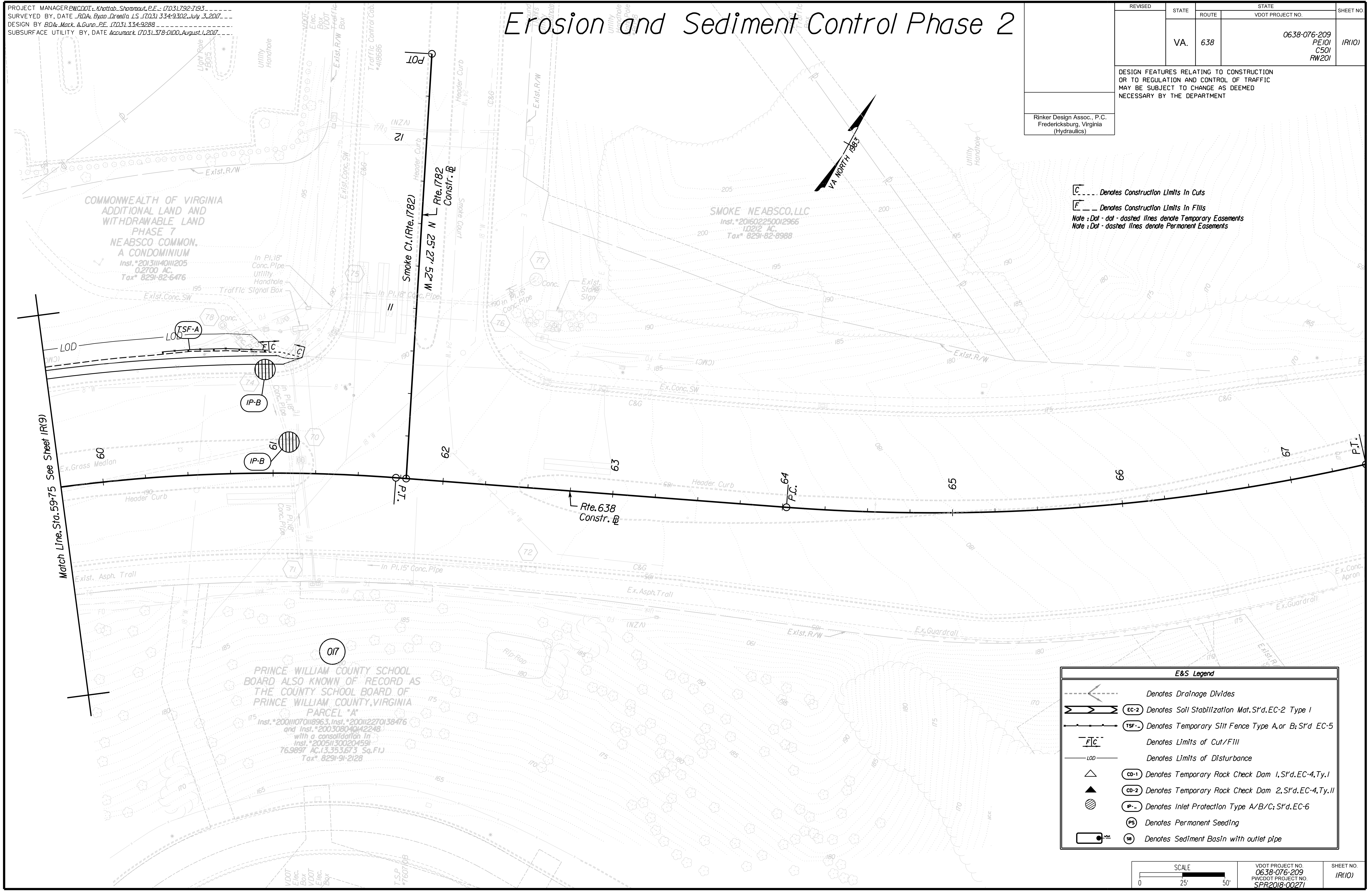
REVISED	STATE		STATE	SHEET NO.
	ROUTE	VDOT PROJECT NO.		
	VA.	638	0638-076-209 PE/01 CS/01 RW/201	IR/10

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
(Hydraulics)

C --- Denotes Construction Limits in Cuts
F --- Denotes Construction Limits in Fills
 Note : Dot - dot - dashed lines denote Temporary Easements
 Note : Dot - dashed lines denote Permanent Easements

Rinker Design Associates, P.C.
 Civil Engineering, Surveying, Land Planning, Transportation, Environmental, Right of Way Services
 10000 Woodbridge Ave., Suite 200
 Fredericksburg, VA 22409
 Phone: (540) 368-1100
 Fax: (540) 368-1101
 Website: www.rinker.com



	Denotes Drainage Divides
	Denotes Soil Stabilization Mat. S't'd. EC-2 Type 1
	Denotes Temporary Silt Fence Type A, or B; S't'd. EC-5
	Denotes Limits of Cut/Fill
	Denotes Limits of Disturbance
	Denotes Temporary Rock Check Dam 1, S't'd. EC-4, Ty. 1
	Denotes Temporary Rock Check Dam 2, S't'd. EC-4, Ty. 11
	Denotes Inlet Protection Type A/B/C; S't'd. EC-6
	Denotes Permanent Seeding
	Denotes Sediment Basin with outlet pipe

SCALE 0 25' 50'	VDOT PROJECT NO. 0638-076-209 PWCDOT PROJECT NO. SPR2018-00271	SHEET NO. IR/10
--------------------	---	--------------------

THESE PLANS ARE UNFINISHED AND UNAPPROVED AND ARE NOT TO BE USED FOR ANY TYPE OF CONSTRUCTION.

R/W PHASE PLANS

PROJECT MANAGER: **EWCDOT - Khattab, Shammout, P.E. (703) 792-7193**
 SURVEYED BY, DATE: **RDA: Bryan Dreelin, LS (703) 334-9302, July 3, 2017**
 DESIGN BY: **RDA: Mack, Gunn, P.E. (703) 334-9288**
 SUBSURFACE UTILITY BY, DATE: **Accurmark (703) 378-0100, August 1, 2017**

EROSION AND SEDIMENT CONTROL TEMPORARY SEDIMENT BASIN DETAILS

REVISED	STATE	ROUTE	STATE	VDOT PROJECT NO.	SHEET NO.
	VA.	638		0638-076-209 PE/01 CS/01 RW/201	15
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 (Hydraulics)					

TEMPORARY SEDIMENT BASIN # **#1** DESIGN DATA SHEET
(WITHOUT EMERGENCY SPILLWAY)

PROJECT:

BASIN # **#1** LOCATION: **Noabco Mills Road
27+36 Left**

TOTAL AREA DRAINING TO BASIN: **7.89 ACRES**

BASIN VOLUME DESIGN

1. MINIMUM REQUIRED VOLUME = CU. YDS. X TOTAL DRAINAGE AREA (ACRES)
67 CU.YDS X **7.89** ACRES = **528.63** CU. YDS. (**14273.01** CU. FT.)
2. AVAILABLE BASIN VOLUME = **542.91** CU. YDS. AT ELEVATION **107.8** FT.
(FROM STORAGE - ELEVATION CURVE)
3. EXCAVATE **542.91** CU. YDS. TO OBTAIN THE REQUIRED VOLUME*
*ELEVATION CORRESPONDING TO REQUIRED VOLUME = INVERT OF THE DEWATERING ORIFICE. **107.8** FT.
4. AVAILABLE VOLUME BEFORE CLEANOUT REQUIRED.
33 CU.YDS X **7.89** ACRES = **260.37** CU. YDS. (**7029.99** CU. FT.)
5. ELEVATION CORRESPONDING TO CLEAN OUT LEVEL = **106.6** FT.
6. DISTANCE FROM INVERT OF THE DEWATERING ORIFICE TO CLEAN OUT LEVEL (MIN. = 1.0 FT.) **1.0** FT.

DRY STORAGE:

7. MINIMUM REQUIRED VOLUME = 67 CU. YDS. X TOTAL DRAINAGE AREA (ACRES)
67 CU.YDS X **7.89** ACRES = **528.63** CU. YDS. (**14273.01** CU. FT.)
8. TOTAL AVAILABLE BASIN VOLUME AT CREST OF RISER* = **572.82** CU. YDS. (**15466.28** CU. FT.)
AT ELEVATION **107.7** FT. (FROM STORAGE - ELEVATION CURVE)
* MINIMUM = **134** CU. YDS. / ACRE OF TOTAL DRAINAGE AREA.
9. DIAMETER OF DEWATERING ORIFICE = **11** IN. (DIAMETER OF DEWATERING ORIFICE PLUS 2 INCHES).
10. DIAMETER OF FLEXIBLE TUBING **13** IN. (DIAMETER OF DEWATERING ORIFICE PLUS 2 INCHES).
- 11

CREST OF RISER =	107.70
TOP OF DAM =	110.00
DESIGN HIGH WATER =	108.70
UPSTREAM TOE OF DAM =	105.00
25 YEAR HEAD =	1.00

PRINCIPAL & EMERGENCY SPILLWAY DESIGN

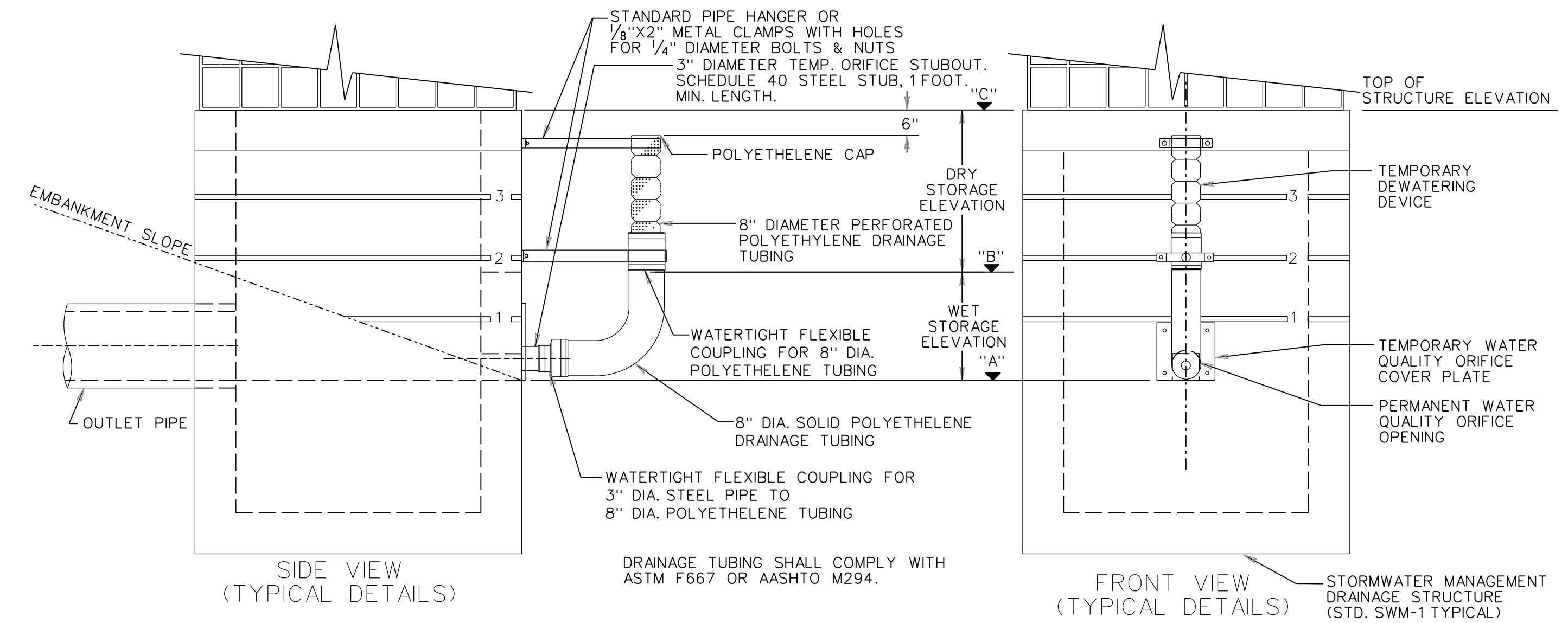
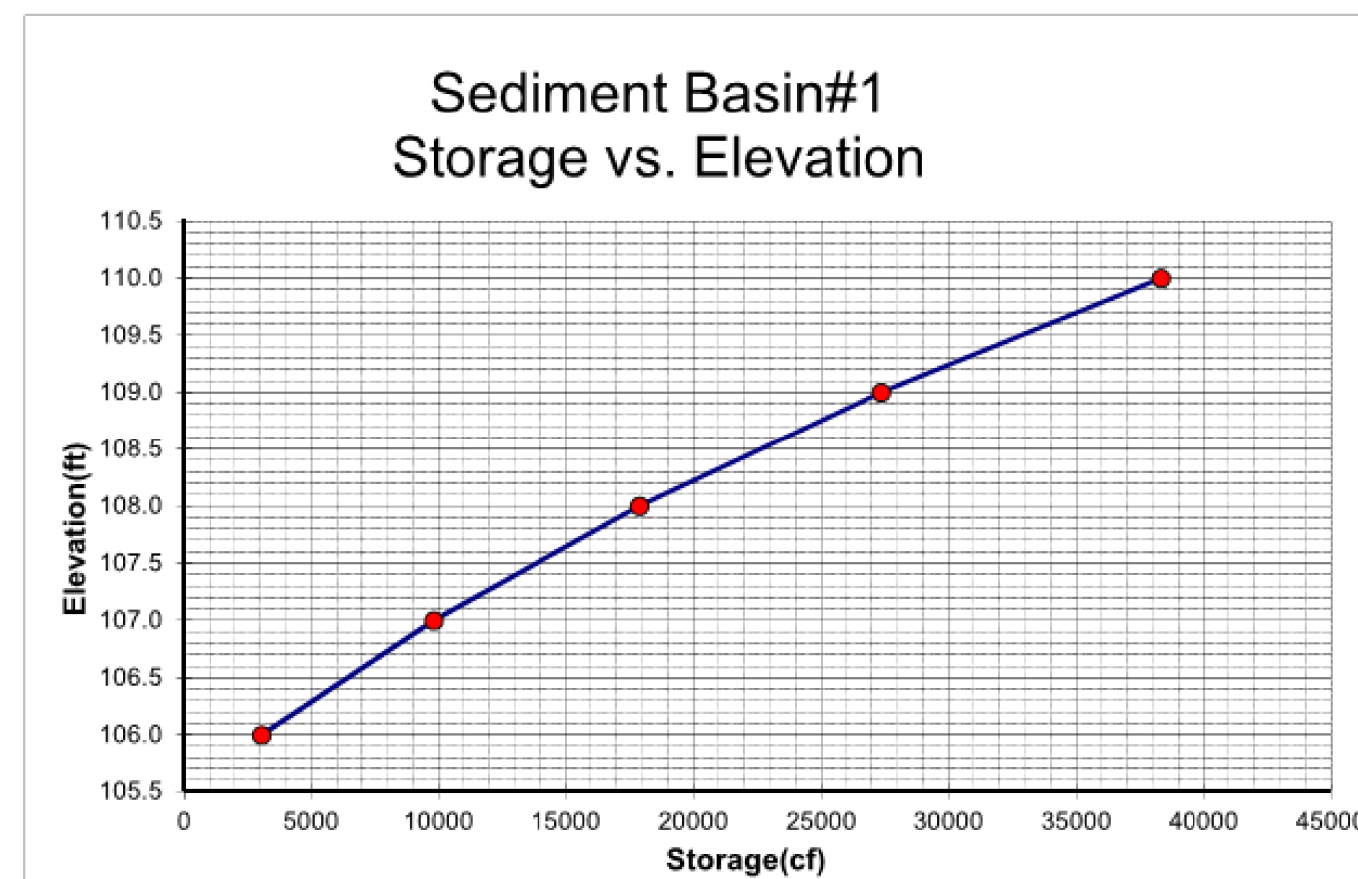
Riser and emergency spillway Design are in accordance with the final SWM Computations. Volume is more than adequate for the Wet and Dry Storage, and passing the 100 year storm. Riser is modified to have a dewatering orifice for the Dry Storage at Elevation noted hereon.

FINAL DESIGN ELEVATIONS

25. TOP OF DAM =	110.00
DESIGN HIGH WATER =	108.70
EMERGENCY SPILLWAY =	N/A
PRINCIPAL SPILLWAY CREST =	107.70
DEWATERING ORIFICE INVERT =	107.80
CLEAN OUT ELEVATION =	106.60
ELEVATION OF UPSTREAM TOE OF DAM OR EXCAVATED BOTTOM OF "WET STORAGE AREA" (IF EXCAVATION WAS PERFORMED) =	105.00

VOLUME OF SEDIMENT BASIN

ELEV (ft)	h (ft)	AREA (acres)	VOLUME (acre-ft)	TOTAL VOLUME		AREA (S.F.)
				(cubic ft)	(cubic yds)	
105.0		0.0000	0.000	0.000		4952.00
106.0	1.0	0.1404	0.070	0.070	3.057	6114.00
107.0	1.0	0.1698	0.155	0.225	9.812	7396.00
108.0	1.0	0.2011	0.185	0.411	17.890	8759.00
109.0	1.0	0.2339	0.218	0.629	27.364	10190.00
110.0	1.0	0.2683	0.251	0.879	38.304	11689.00
	-110.0	0.0000	-14.758	0.000	0	0.00
	0.0	0.0000	0.000	0.000	0	0.00



	SB*1
A	106.60
B	107.6
C	107.7

- NOTE:**
1. THESE DETAILS ARE TO BE USED TO MODIFY THE PERMANENT STORMWATER MANAGEMENT DRAINAGE STRUCTURE WHERE THE STORMWATER MANAGEMENT BASIN IS TO BE USED FOR A TEMPORARY SEDIMENT BASIN DURING PROJECT CONSTRUCTION.
 2. GRADE STORMWATER MANAGEMENT BASIN AS SHOWN IN PLANS.
 3. ALL OPENINGS (IF ANY) IN SIDE OF STRUCTURE (OTHER THEN PERMANENT WATER QUALITY ORIFICE) ARE TO BE COVERED WITH SOLID METAL PLATES WHILE THE BASIN IS BEING USED FOR SEDIMENT CONTROL.
 4. DEWATERING DEVICE AND COMPONENTS AND TEMPORARY METAL PLATES (IF ANY), AS SHOWN IN THE DETAIL, ARE TO BE REMOVED AND PERMANENT STEEL PLATE WITH WATER QUALITY ORIFICE IS TO BE INSTALLED WHEN BASIN IS NO LONGER NEEDED FOR SEDIMENT CONTROL.
 5. SIMILAR DEVICE MAY ALSO BE USED ON OTHER STORMWATER MANAGEMENT DRAINAGE STRUCTURES.
 6. COST OF TEMPORARY DEWATERING DEVICE AND TEMPORARY METAL PLATES (IF ANY) SHALL BE INCLUDED IN THE BID PRICE FOR STORMWATER MANAGEMENT DRAINAGE STRUCTURE.
 7. THE TEMPORARY 8" DIA. POLYETHYLENE DRAINAGE TUBING IS TO BE SOLID FOR THE LENGTH BELOW WET STORAGE ELEVATION AND IS TO BE PERFORATED ABOVE THE WET STORAGE ELEVATION. THE COUPLING IS TO BE WATERTIGHT.

SWM-DR 114.04

THESE PLANS ARE UNFINISHED AND UNAPPROVED AND ARE NOT TO BE USED FOR ANY TYPE OF CONSTRUCTION.

R/W PHASE PLANS

VDOT PROJECT NO. 0638-076-209 PWCDOT PROJECT NO. SPR2018-00271	SHEET NO. 15
---	------------------------

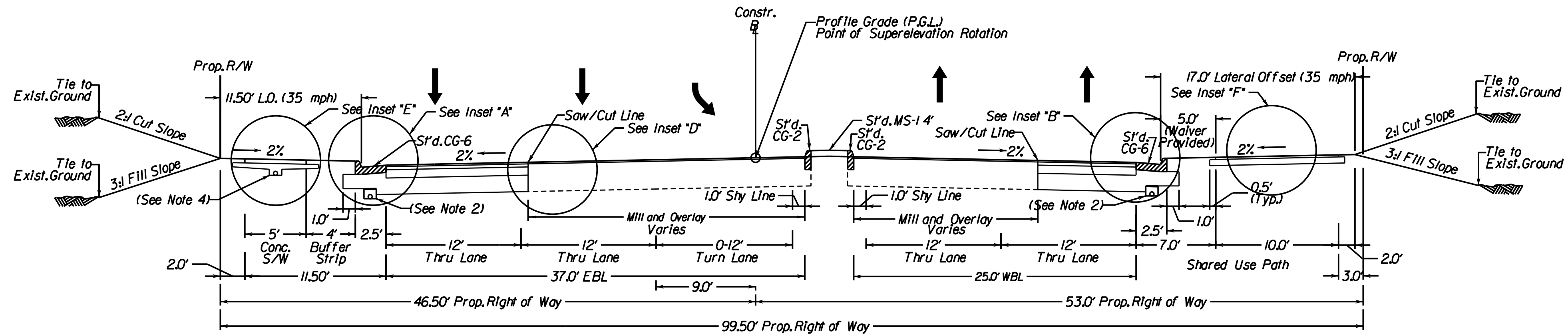
Rinker Design Associates, P.C.
 Civil Engineering, Surveying - Land Planning
 Stormwater Management, Transportation - Environmental
 Right of Way Services
 10000 Lakeside Blvd., Suite 100
 Fredericksburg, VA 22409
 Phone: (540) 371-1111
 Fax: (540) 371-1111

PROJECT MANAGER: PWCDOT - Khattab, Shammout, P.E. (703) 792-7193
SURVEYED BY, DATE: RDA - Ryan, Dreel, L.S. (703) 334-9302, July 3, 2017
DESIGN BY: RDA - Mack, Gunn, P.E. (703) 334-9288
SUBSURFACE UTILITY BY, DATE: Accurmark (703) 378-0100, August 1, 2017

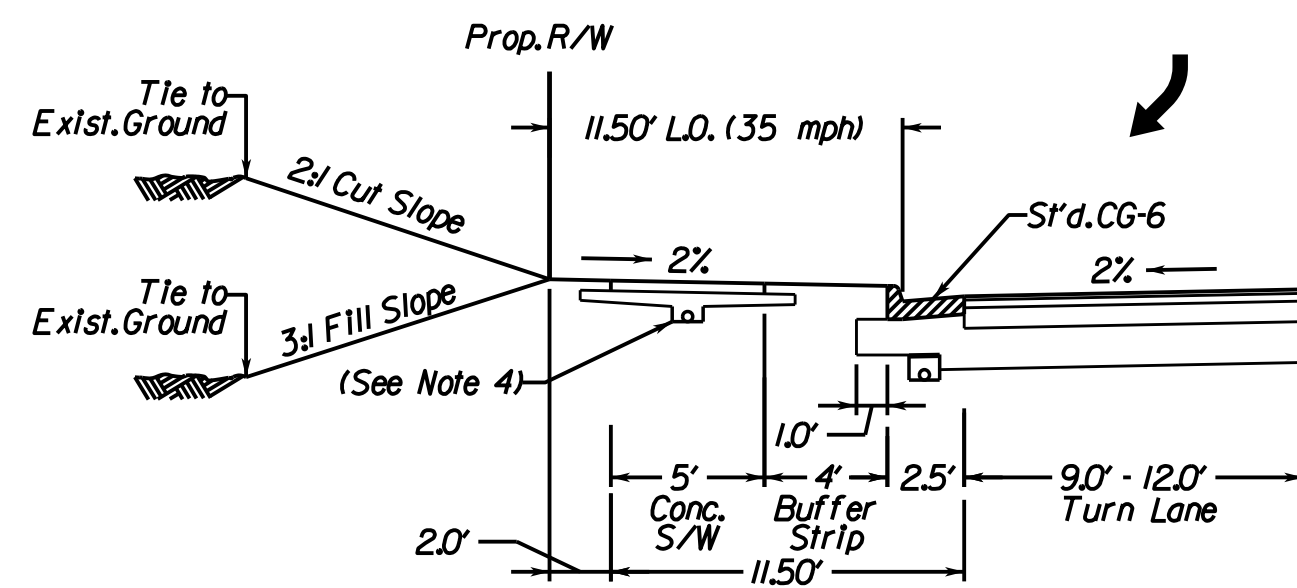
Typical Sections

Neabsco Mills Rd., Rte. 638 Normal Crown, 4 Lane Street with Curb & Gutter Geometric Design Standard for Urban Collector Street System (GS-7): V-35 MPH (Not to Scale)

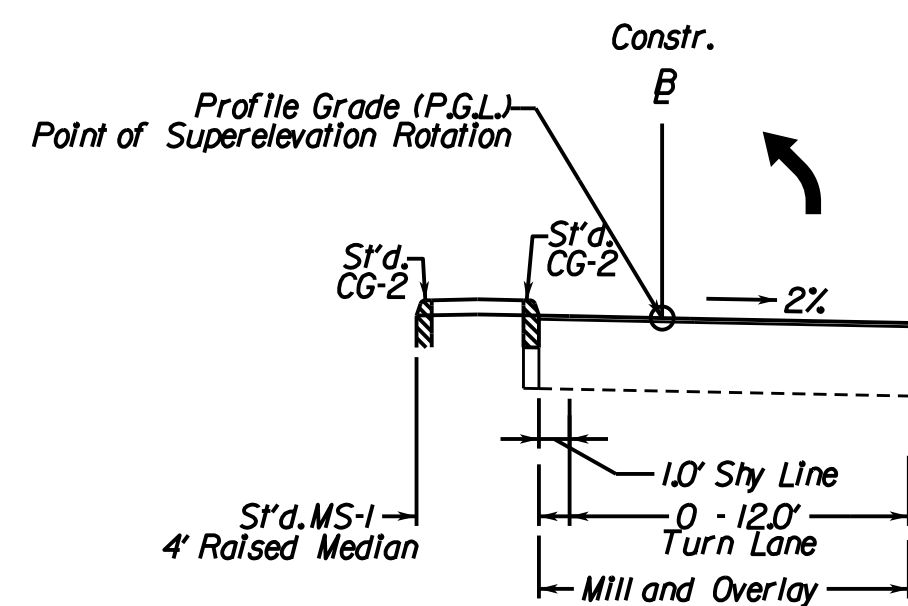
REVISED	STATE	STATE		SHEET NO.
	VA.	ROUTE	VDOT PROJECT NO.	
		638	0638-076-209 PE/01 CS/01 RW/201	2A
DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT				
DMY Eng. Prince William, Virginia (Materials)		Rinker Design Assoc., P.C. Fredericksburg, Virginia (Roadway)		



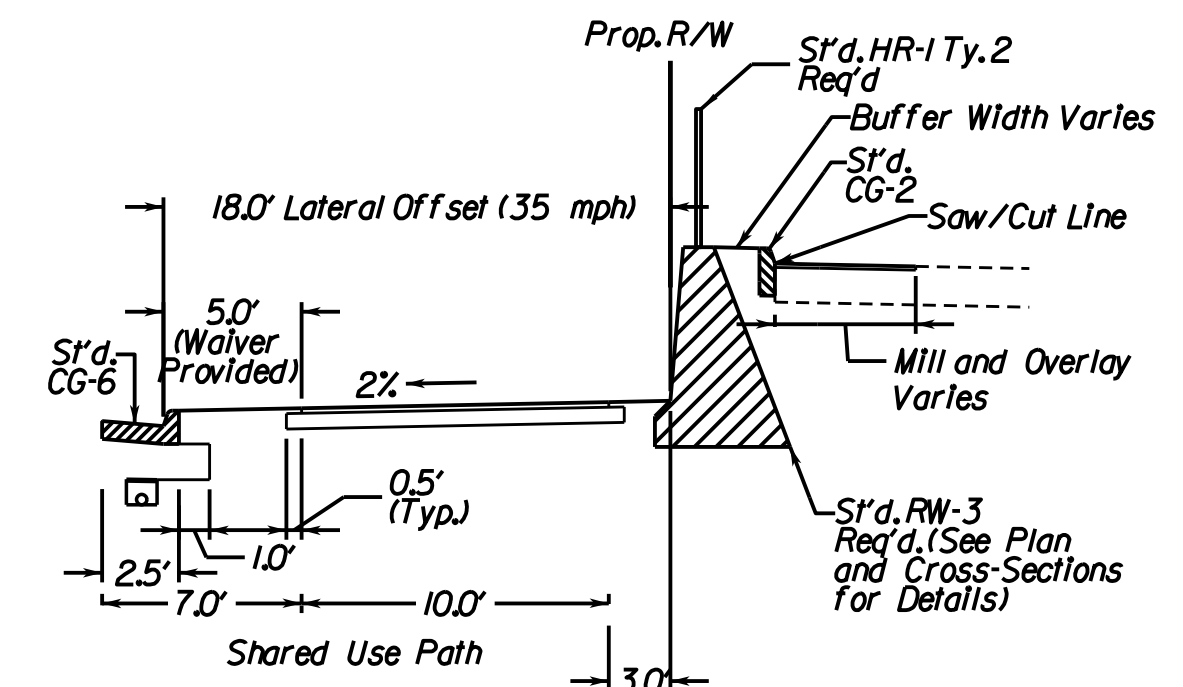
LOCATION: Neabsco Mills Rd.
STATION: 12+77.73 TO 16+50.00



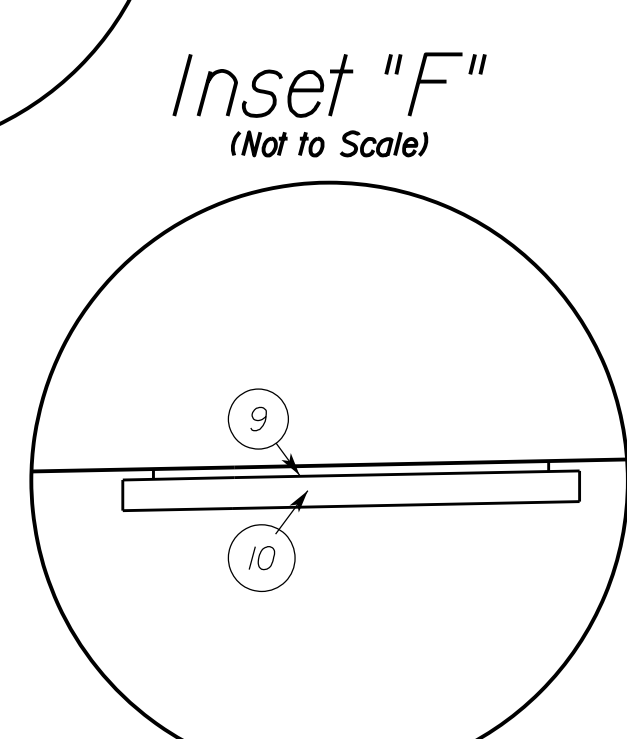
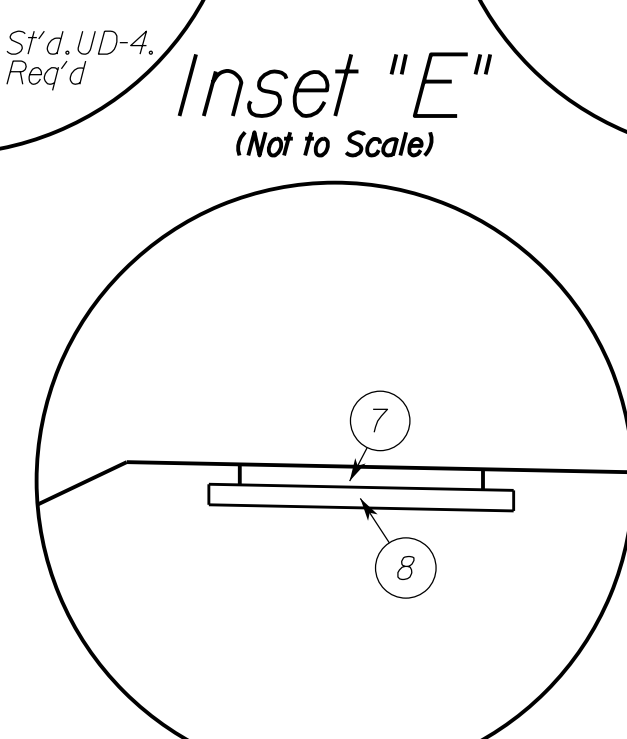
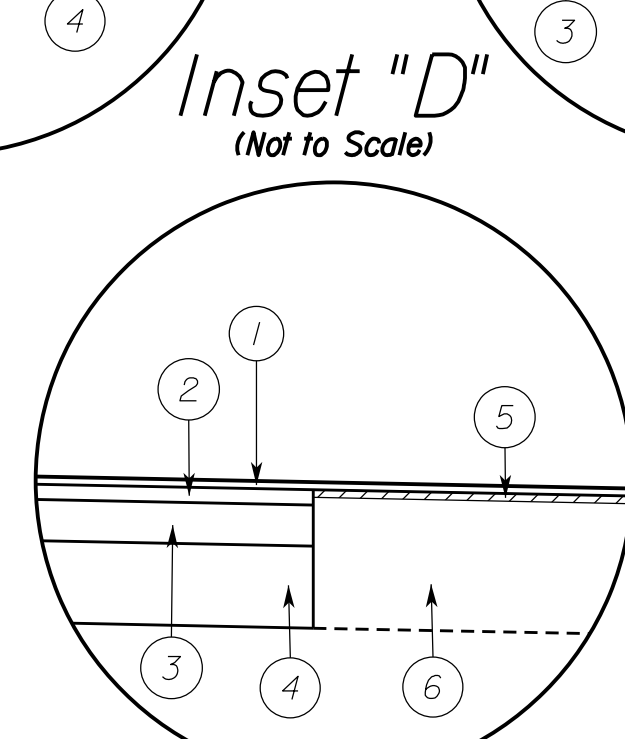
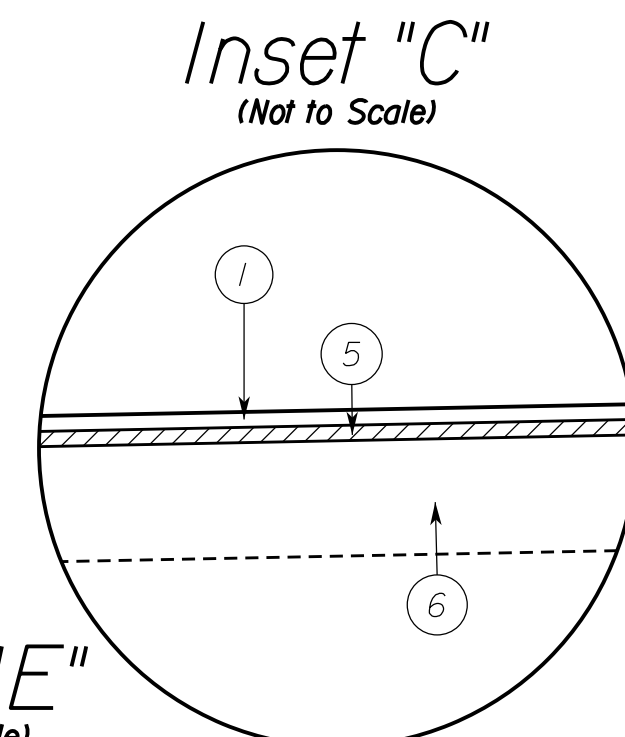
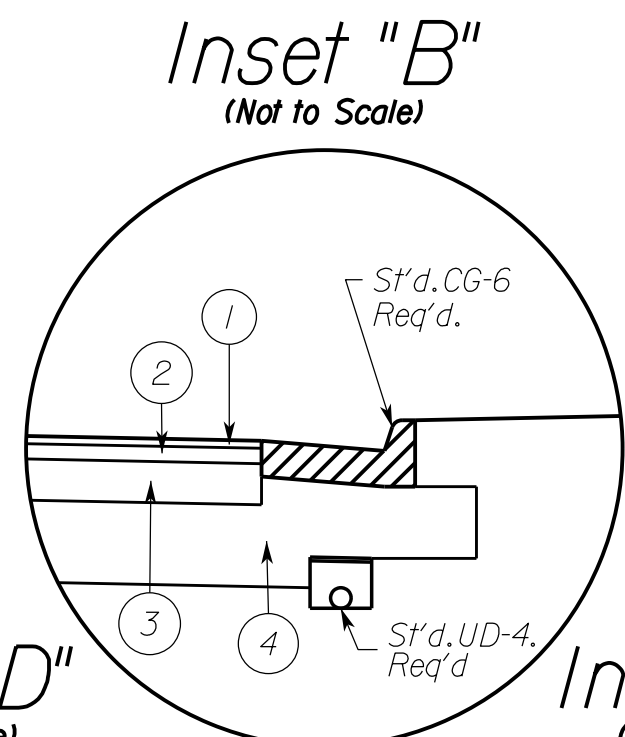
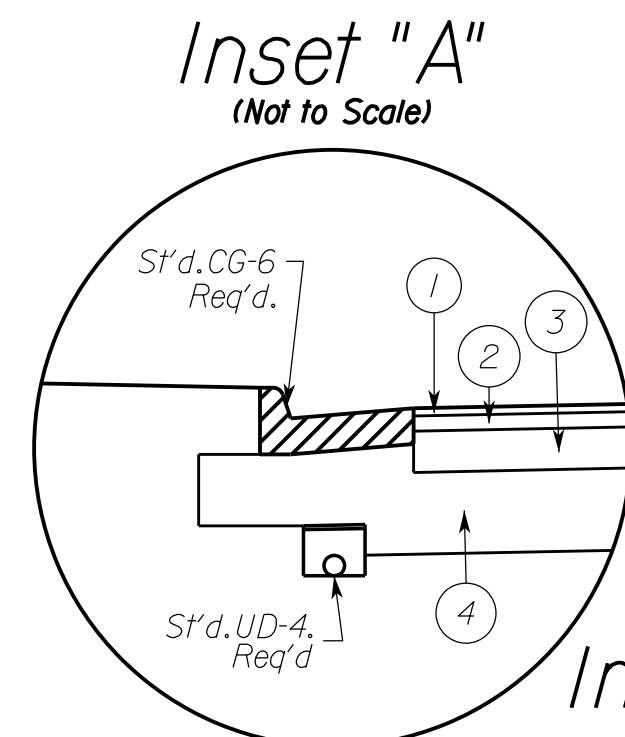
STATION: 15+79.29 TO 16+50.00



STATION: 15+00.00 TO 16+50.00



STATION: 14+63.43 TO 16+26.03



- INSET DESIGN LEGEND**
- Surface Course - (1.5") Asph. Conc., Type SM-9.5D estimated @ 165 lbs/sq.yd.
 - Intermediate Course - (2") Asph. Conc., Type IM-19.0A
 - Base Course - (4" Min.) Asph. Conc., BM-25.0A.
 - Sub-Base Course - (6" Min.) Aggr. Base Material, Type I, Size No. 21-B, connected to a standard UD-4 edg drain
 - Existing Pavement - Min. 1.5" Mill Req'd. See Pattern.
 - Existing Pavement Structure
 - 4" Class A3 Concrete
 - 4" Aggregate Base Material, Type I Size 21B Extended 4" beyond concrete.
 - Surface Course - (2") Asph. Conc., Type SM-9.5A
 - 6" Aggregate Base Material, Type I, Size 21B. Extended 6" beyond the edge of asphalt concrete

- TYPICAL SECTION NOTES**
- Pavement widening to be performed in accordance with VDOT S'd. WP-2
 - S'd. UD-4 Req'd., see plan sheets for detailed locations.
 - S'd. UD-2 Req'd., see plan sheets for detailed locations.
 - S'd. UD-3 Req'd., see plan sheets for detailed locations.

VDOT PROJECT NO. 0638-076-209 PWCDOT PROJECT NO. SPR2018-00271	SHEET NO. 2A
---	-----------------

THESE PLANS ARE UNFINISHED AND UNAPPROVED AND ARE NOT TO BE USED FOR ANY TYPE OF CONSTRUCTION.

R/W PHASE PLANS

Rinker Design Associates, P.C.
 Civil Engineering, Surveying, Land Planning,
 Transportation, Environmental,
 Right of Way Services
 11000 Lee Blvd., Suite 200
 Fairfax, VA 22033
 Phone: (703) 441-1100
 Fax: (703) 441-1101

PROJECT MANAGER: PWCDOT - Khattab, Shammout, P.E. (703) 792-7193
SURVEYED BY, DATE: RDA - Ryan Drealet, LS (703) 334-9302, July 3, 2017
DESIGN BY: RDA - Mack, A. Gunn, P.E. (703) 334-9288
SUBSURFACE UTILITY BY, DATE: Accumark (703) 378-0100, August 1, 2017

Typical Sections

REVISED	STATE	ROUTE	STATE	VDOT PROJECT NO.	SHEET NO.
	VA.	638		0638-076-209 PE/01 CS/01 RW/201	2A(1)

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

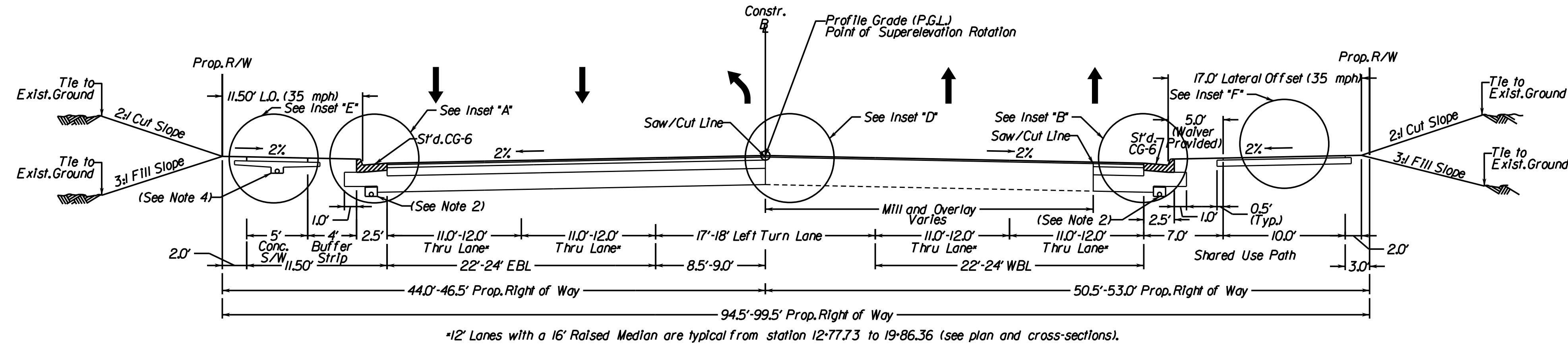
DMY Eng.
Prince William, Virginia
(Materials)

Rinker Design Assoc., P.C.
Fredericksburg, Virginia
(Roadway)

Neabsco Mills Rd., Rte. 638

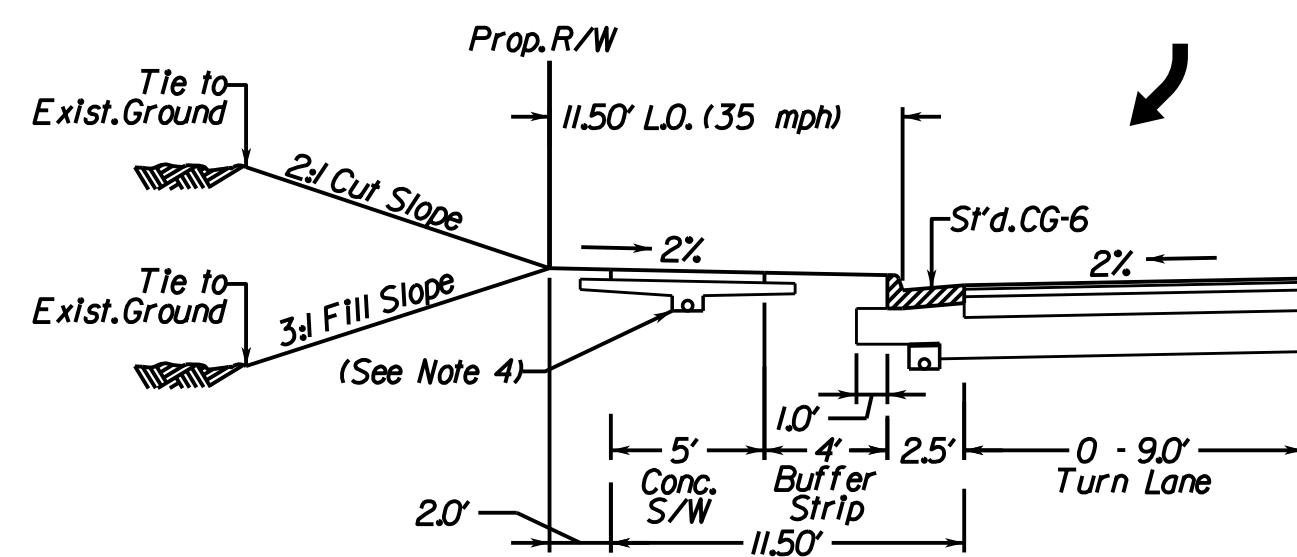
Normal Crown, 4 Lane Street with Curb & Gutter

Geometric Design Standard for Urban Collector Street System (GS-7): V-35 MPH
(Not to Scale)

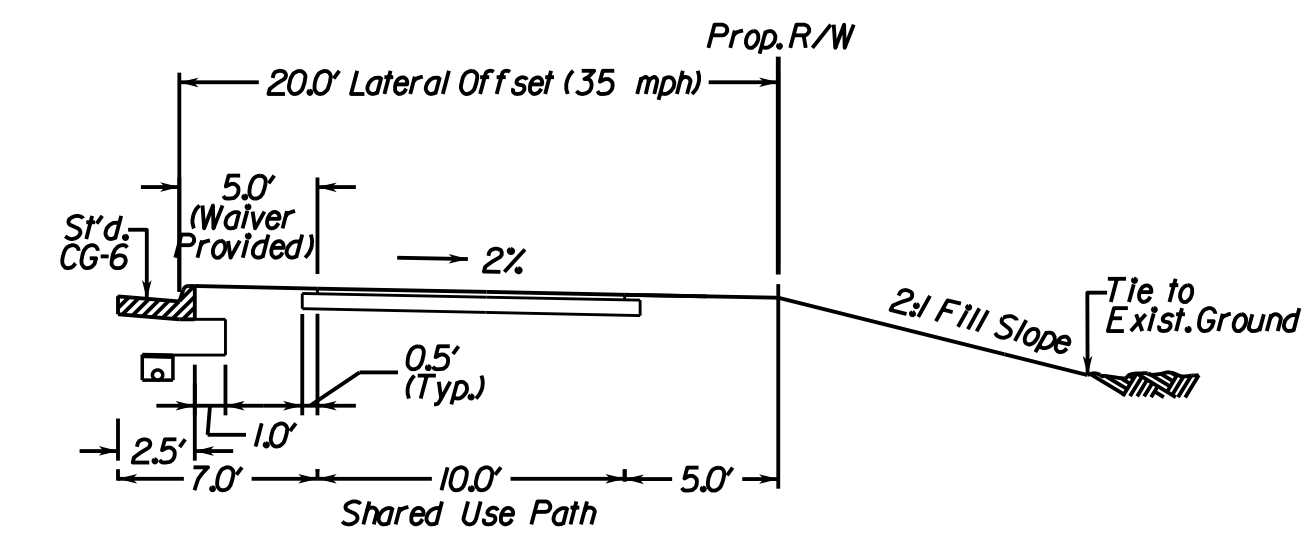


*12' Lanes with a 16' Raised Median are typical from station 12-77.73 to 19-86.36 (see plan and cross-sections).

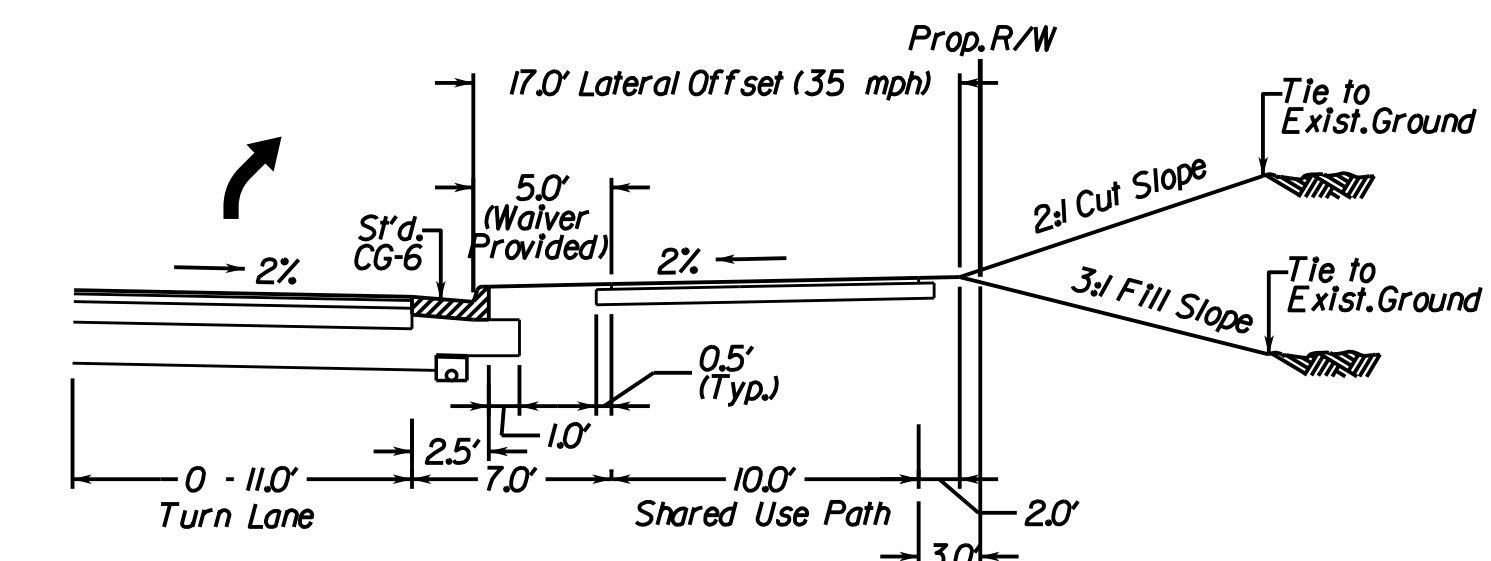
LOCATION	STATION	TO	STATION
Neabsco Mills Rd.	16-50.00		24-00.00



STATION	TO	STATION
16-50.00		17-25.00



STATION	TO	STATION
20-25.00		20-80.00



STATION	TO	STATION
23-00.00		24-00.00

TYPICAL SECTION NOTES

1. Pavement widening to be performed in accordance with VDOT S'd.WP-2
2. S'd.UD-4 Req'd., see plan sheets for detailed locations.
3. S'd.UD-2 Req'd., see plan sheets for detailed locations.
4. S'd.UD-3 Req'd., see plan sheets for detailed locations.

VDOT PROJECT NO. 0638-076-209 PWCDOT PROJECT NO. SPR2018-00271	SHEET NO. 2A(1)
---	--------------------

THESE PLANS ARE UNFINISHED AND UNAPPROVED AND ARE NOT TO BE USED FOR ANY TYPE OF CONSTRUCTION.

R/W PHASE PLANS

PROJECT MANAGER PWCDOT: Khattab, Shammout, P.E. (703) 792-7193
SURVEYED BY, DATE RDA: Ryan Dreel'ia, LS (703) 334-9302, July 3, 2017
DESIGN BY RDA: Mack, Gunn, P.E. (703) 334-9288
SUBSURFACE UTILITY BY, DATE Accumark (703) 378-0100, August 1, 2017

Typical Sections

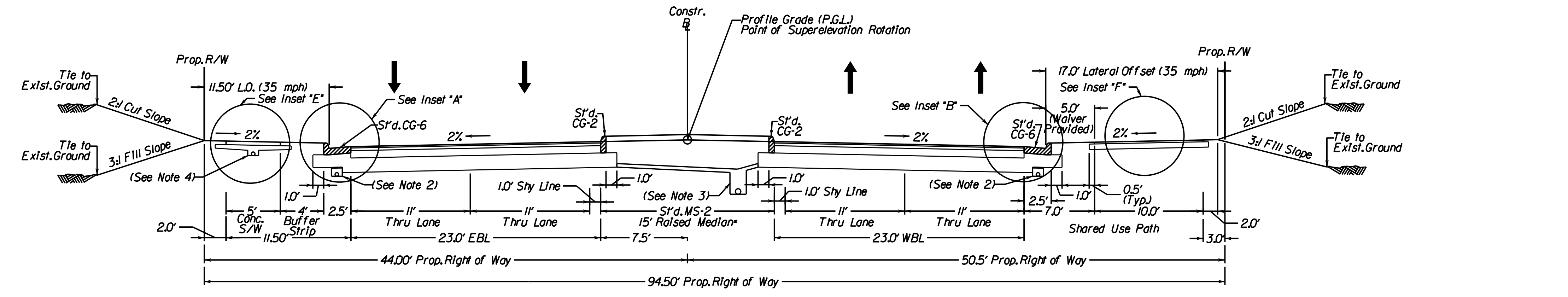
REVISED	STATE	ROUTE	STATE	VDOT PROJECT NO.	SHEET NO.
	VA.	638		0638-076-209 PE101 CS01 RW201	2A(2)

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

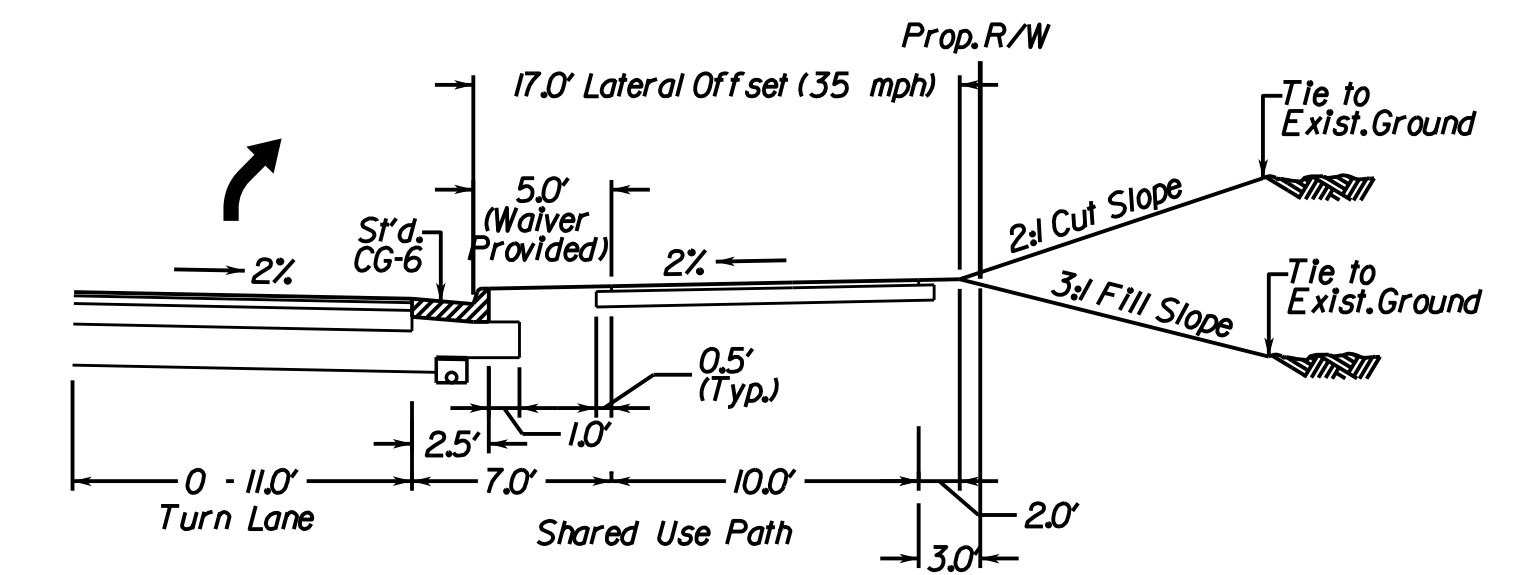
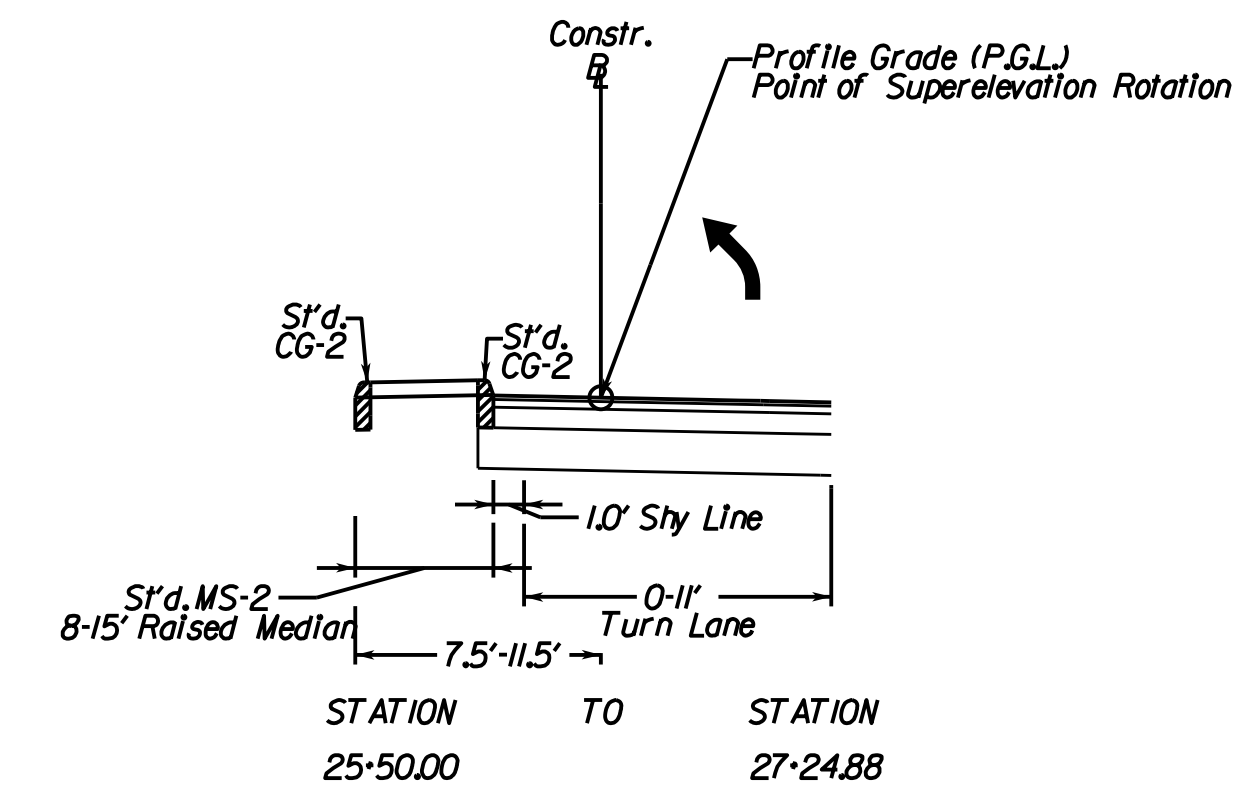
DMY Eng.
Prince William, Virginia
(Materials)

Rinker Design Assoc., P.C.
Fredericksburg, Virginia
(Roadway)

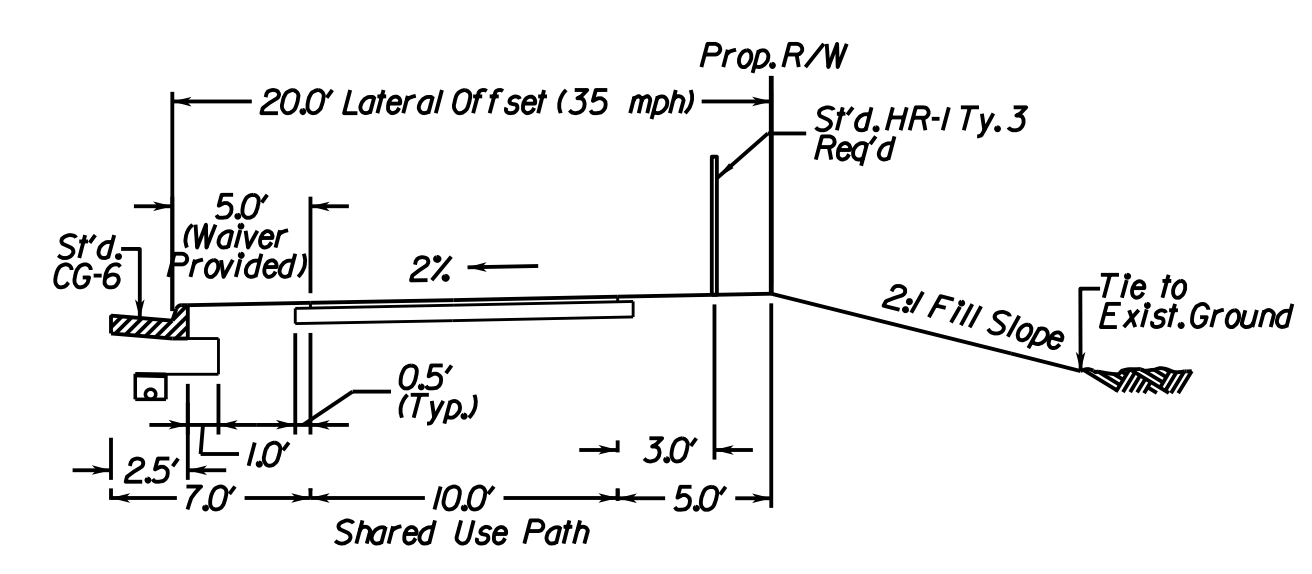
Neabsco Mills Rd., Rte. 638 Normal Crown, 4 Lane Street with Curb & Gutter Geometric Design Standard for Urban Collector Street System (GS-7): V-35 MPH (Not to Scale)



LOCATION	STATION	TO	STATION
Neabsco Mills Rd.	24-00.00		27-24.88
	39-53.52		45-45.00



STATION	TO	STATION
23-00.00		27-24.88
44-00.00		45-45.00



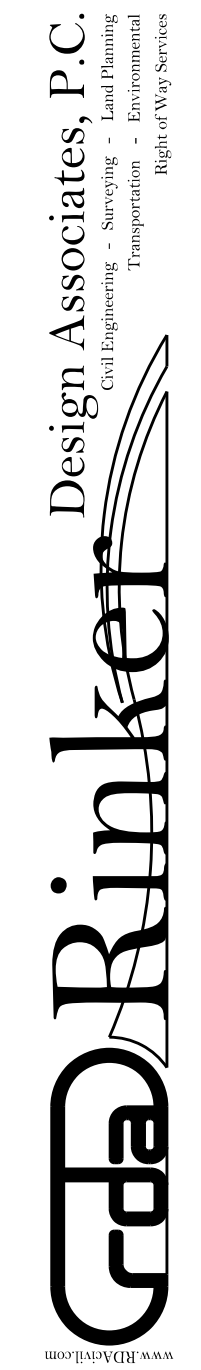
STATION	TO	STATION
40-90.00		43-80.00

- TYPICAL SECTION NOTES
- Pavement widening to be performed in accordance with VDOT S'd. WP-2
 - S'd. UD-4 Req'd., see plan sheets for detailed locations.
 - S'd. UD-2 Req'd., see plan sheets for detailed locations.
 - S'd. UD-3 Req'd., see plan sheets for detailed locations.

VDOT PROJECT NO. 0638-076-209 PWCDOT PROJECT NO. SPR2018-00271	SHEET NO. 2A(2)
---	--------------------

THESE PLANS ARE UNFINISHED AND UNAPPROVED AND ARE NOT TO BE USED FOR ANY TYPE OF CONSTRUCTION.

R/W PHASE PLANS



PROJECT MANAGER: EWCDOT - Khattab, Shammout, P.E. (703) 792-7193
SURVEYED BY, DATE: RDA: Bryan Dreehl, LS (703) 334-9302, July 3, 2017
DESIGN BY: RDA: Mack, Gunn, P.E. (703) 334-9288
SUBSURFACE UTILITY BY, DATE: Accumark (703) 378-0100, August 1, 2017

Typical Sections

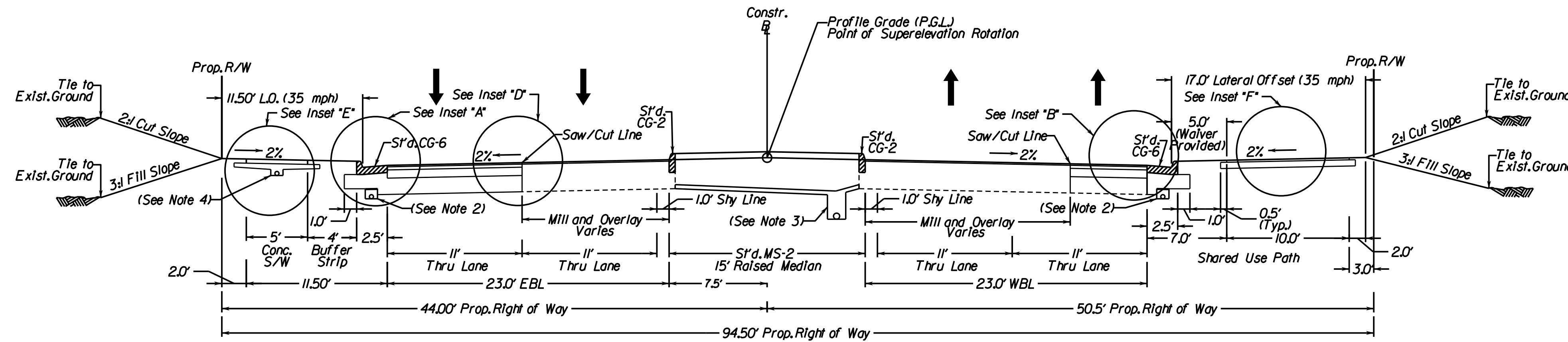
REVISED	STATE	STATE		SHEET NO.
		ROUTE	VDOT PROJECT NO.	
	VA.	638	0638-076-209 PE/01 CS/01 RW/201	2A(3)

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

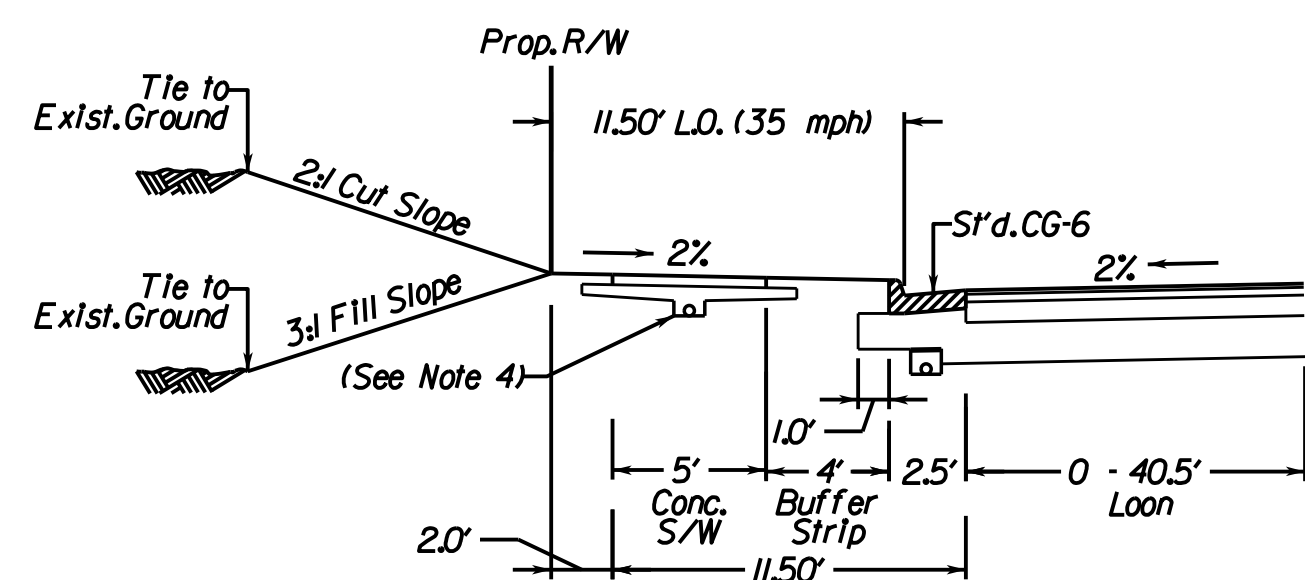
DMY Eng.
Prince William, Virginia
(Materials)

Rinker Design Assoc., P.C.
Fredericksburg, Virginia
(Roadway)

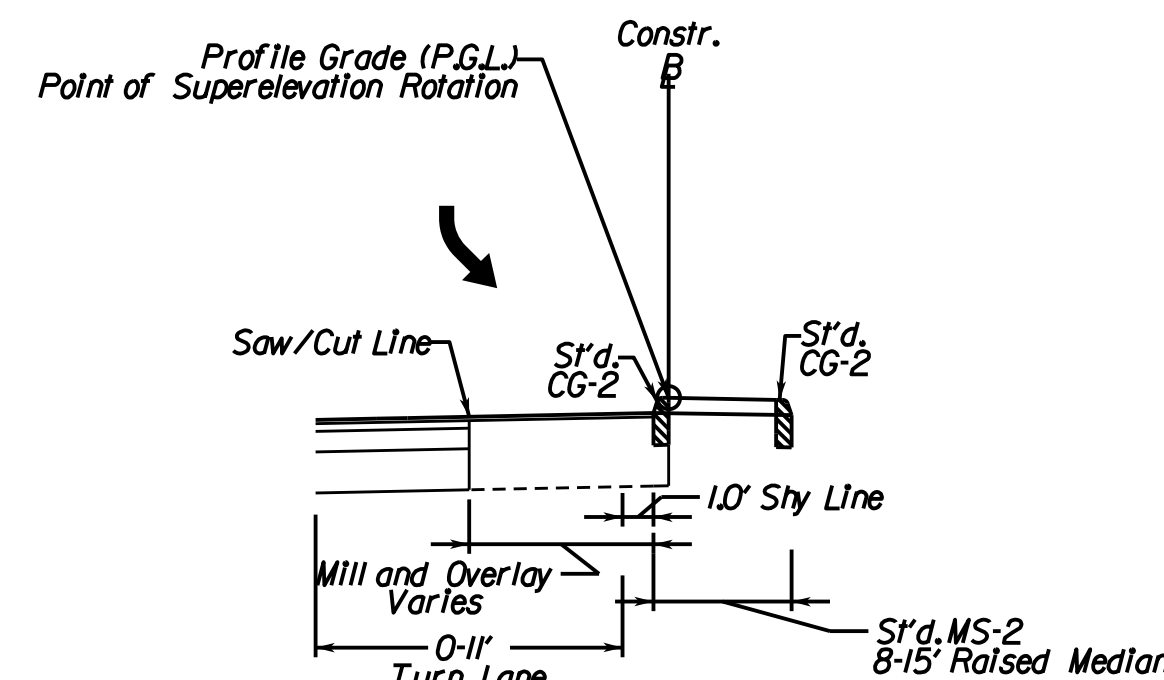
Neabsco Mills Rd., Rte. 638 Normal Crown, 4 Lane Street with Curb & Gutter Geometric Design Standard for Urban Collector Street System (GS-7): V-35 MPH (Not to Scale)



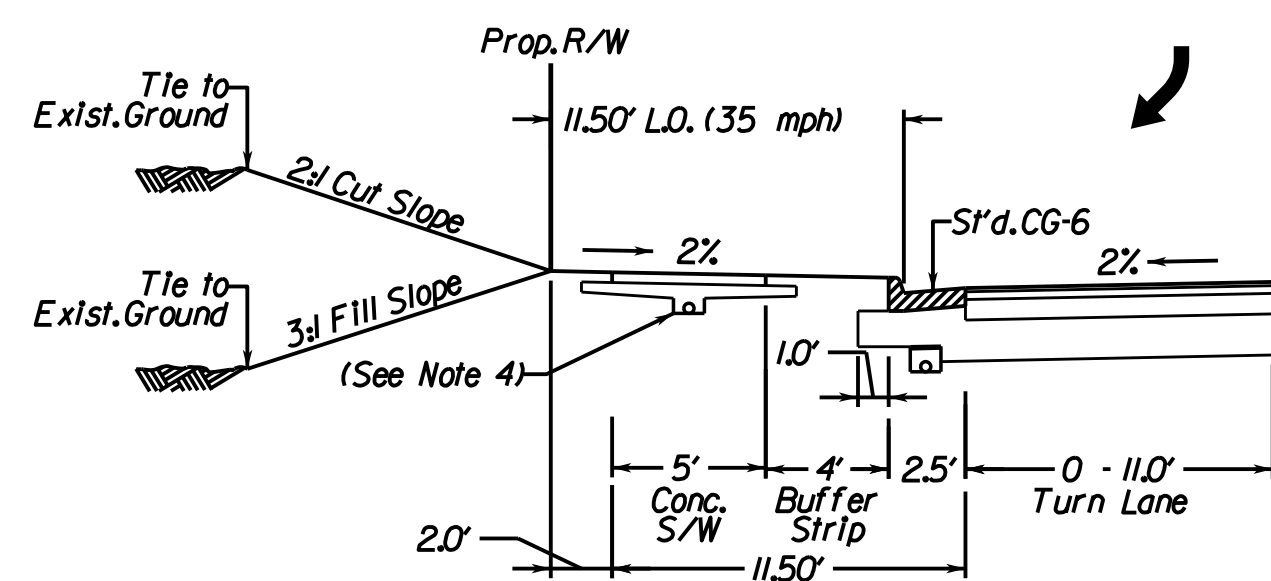
LOCATION	STATION	TO	STATION
Neabsco Mills Rd.	27-24.88		39-53.52
	45-45.00		49-53.61



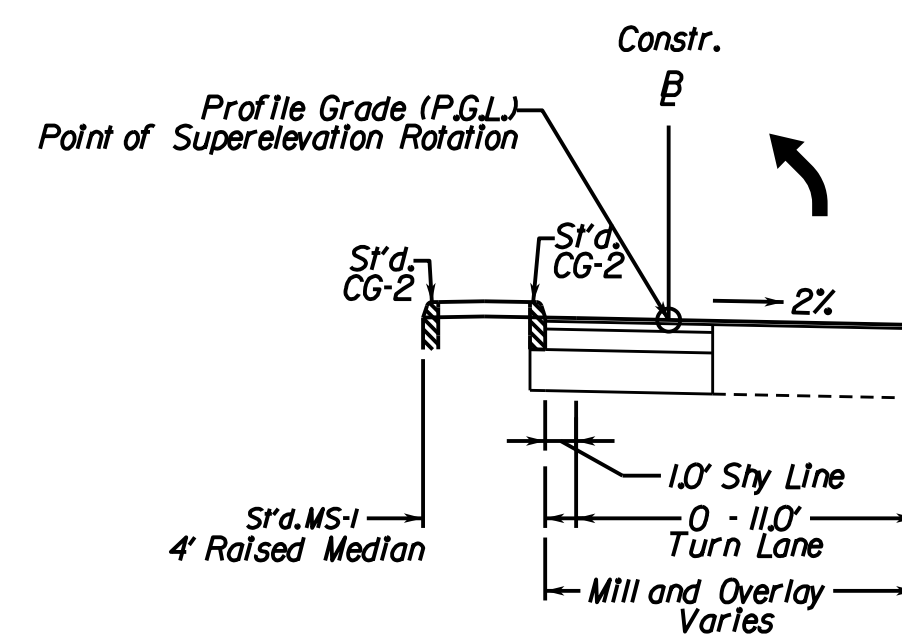
STATION	TO	STATION
27-24.88		29-25.00



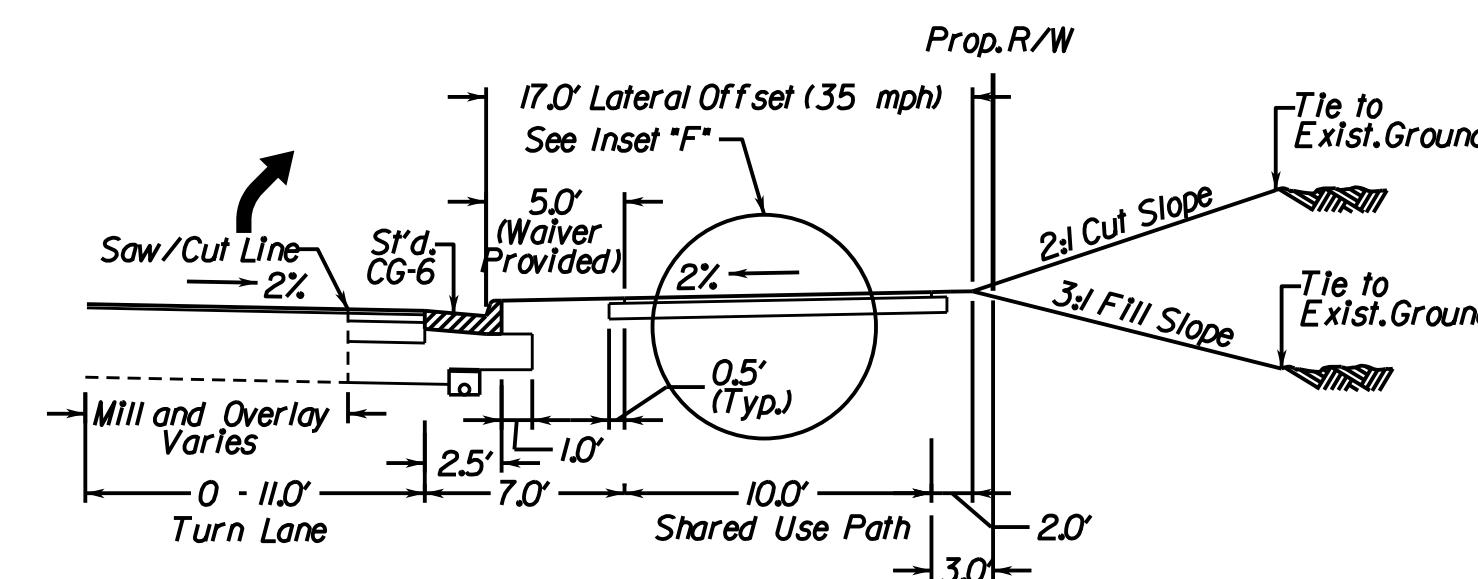
STATION	TO	STATION
29-90.77		33-19.37
33-19.37		36-25.00



STATION	TO	STATION
29-87.17		33-00.00



STATION	TO	STATION
27-24.88		28-75.35
44-99.57		48-99.72



STATION	TO	STATION
27-24.88		28-83.70
45-45.00		49-24.55

TYPICAL SECTION NOTES

- Pavement widening to be performed in accordance with VDOT S'd.WP-2
- S'd.U.D-4 Req'd., see plan sheets for detailed locations.
- S'd.U.D-2 Req'd., see plan sheets for detailed locations.
- S'd.U.D-3 Req'd., see plan sheets for detailed locations.

VDOT PROJECT NO. 0638-076-209 PWCDOT PROJECT NO. SPR2018-00271	SHEET NO. 2A(3)
---	--------------------

THESE PLANS ARE UNFINISHED AND UNAPPROVED AND ARE NOT TO BE USED FOR ANY TYPE OF CONSTRUCTION.

R/W PHASE PLANS

PROJECT MANAGER: EWCDOT - Khattab, Shammout, P.E. (703) 792-7193
SURVEYED BY, DATE: RDA: Bryan D'orella, LS (703) 334-9302, July 3, 2017
DESIGN BY: RDA: Mack, A. Gunn, P.E. (703) 334-9288
SUBSURFACE UTILITY BY, DATE: Accurack (703) 378-0100, August 1, 2017

Typical Sections

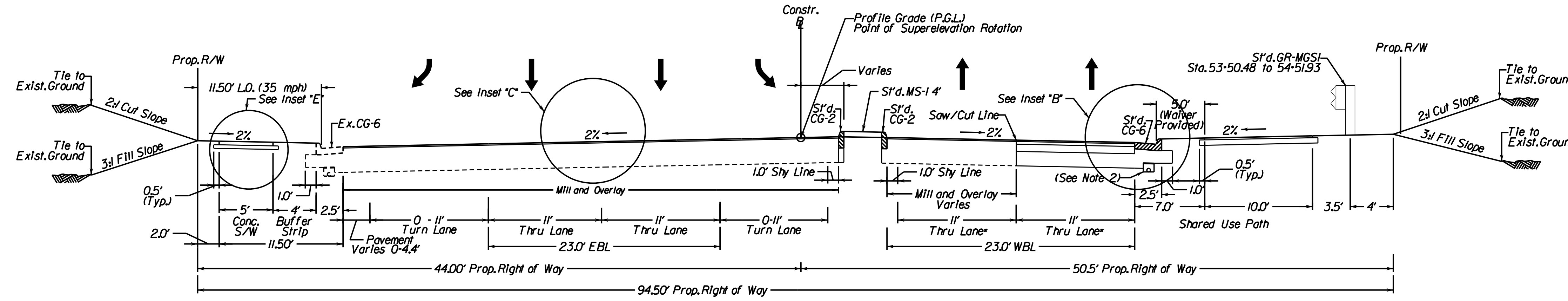
REVISED	STATE		VDOT PROJECT NO.	SHEET NO.
	VA.	ROUTE		
		638	0638-076-209 PE/01 CS/01 RW/201	2A(4)

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

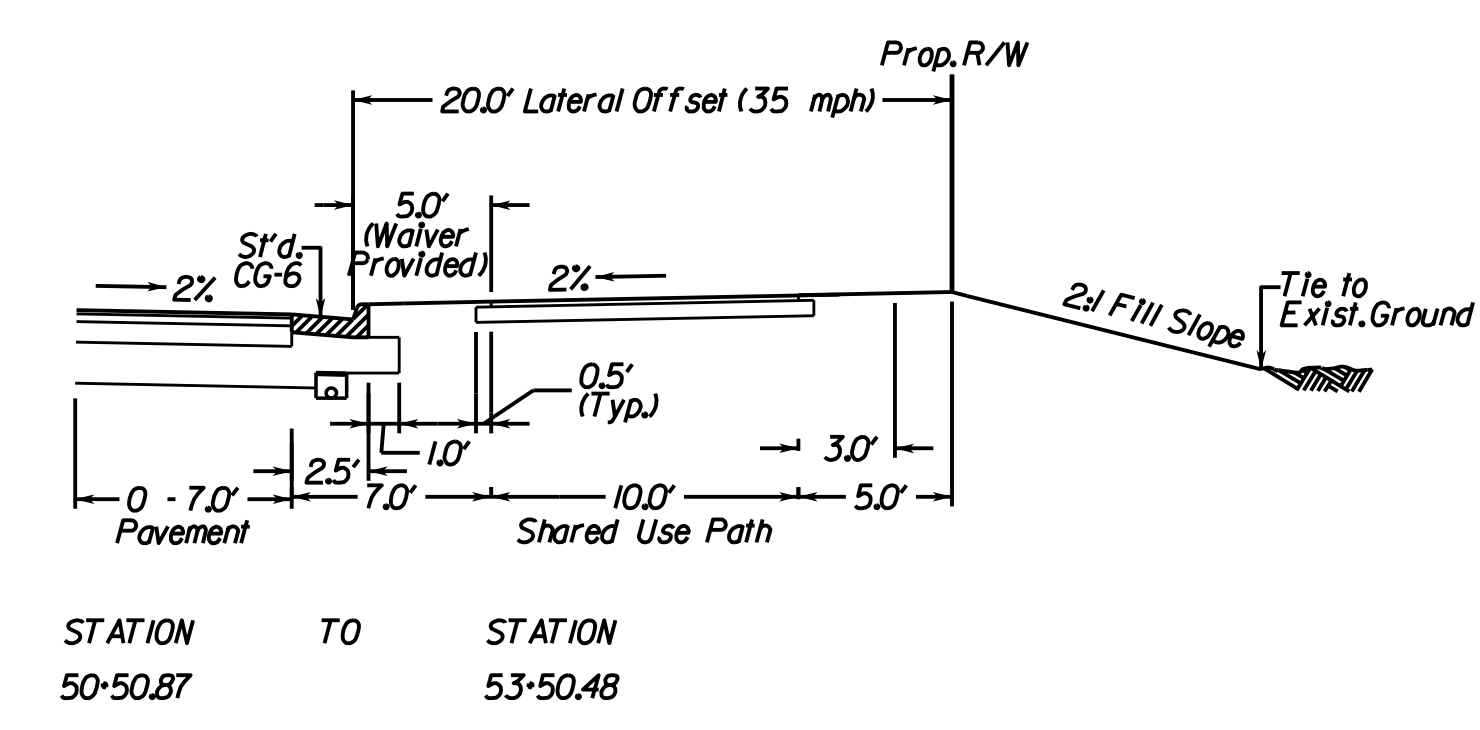
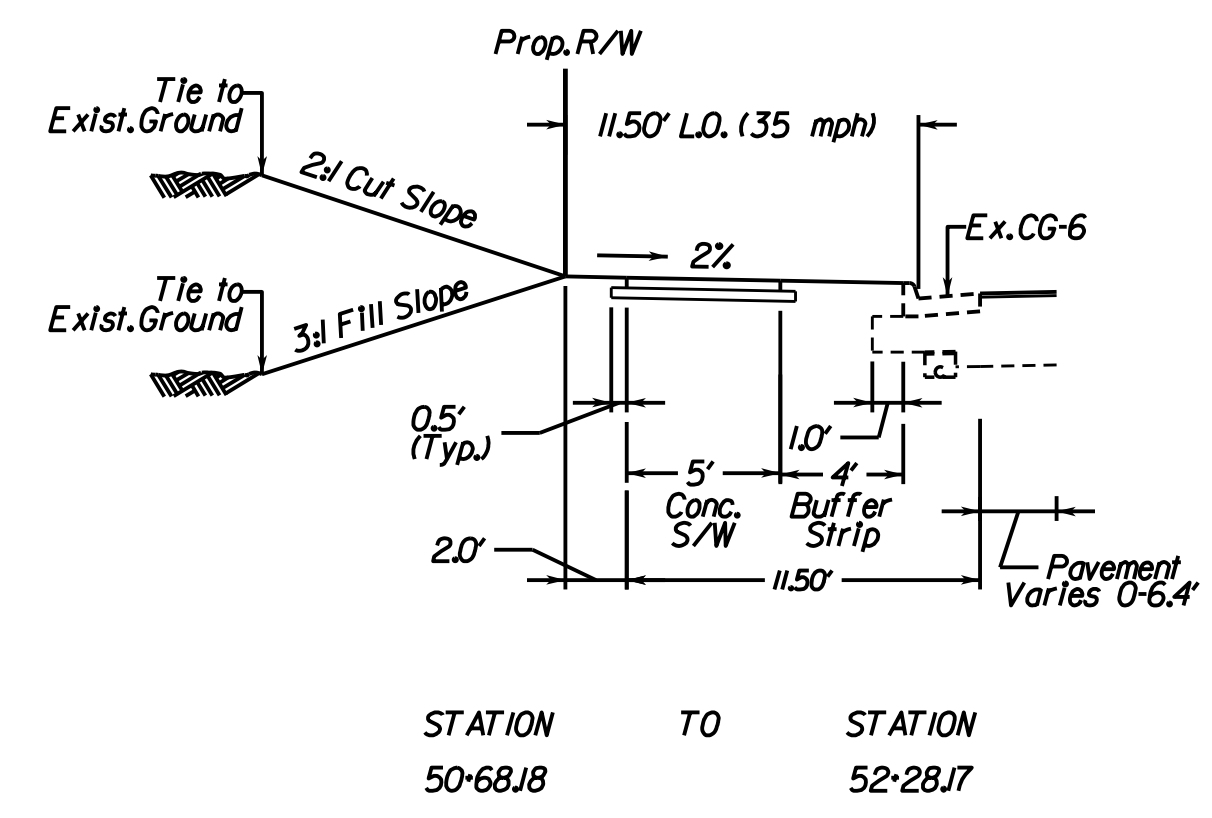
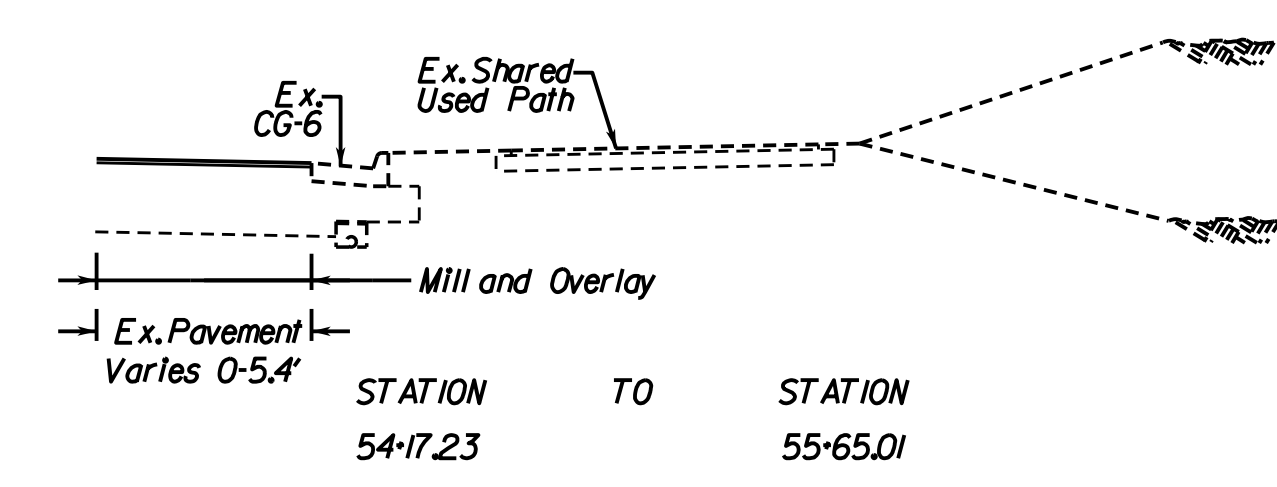
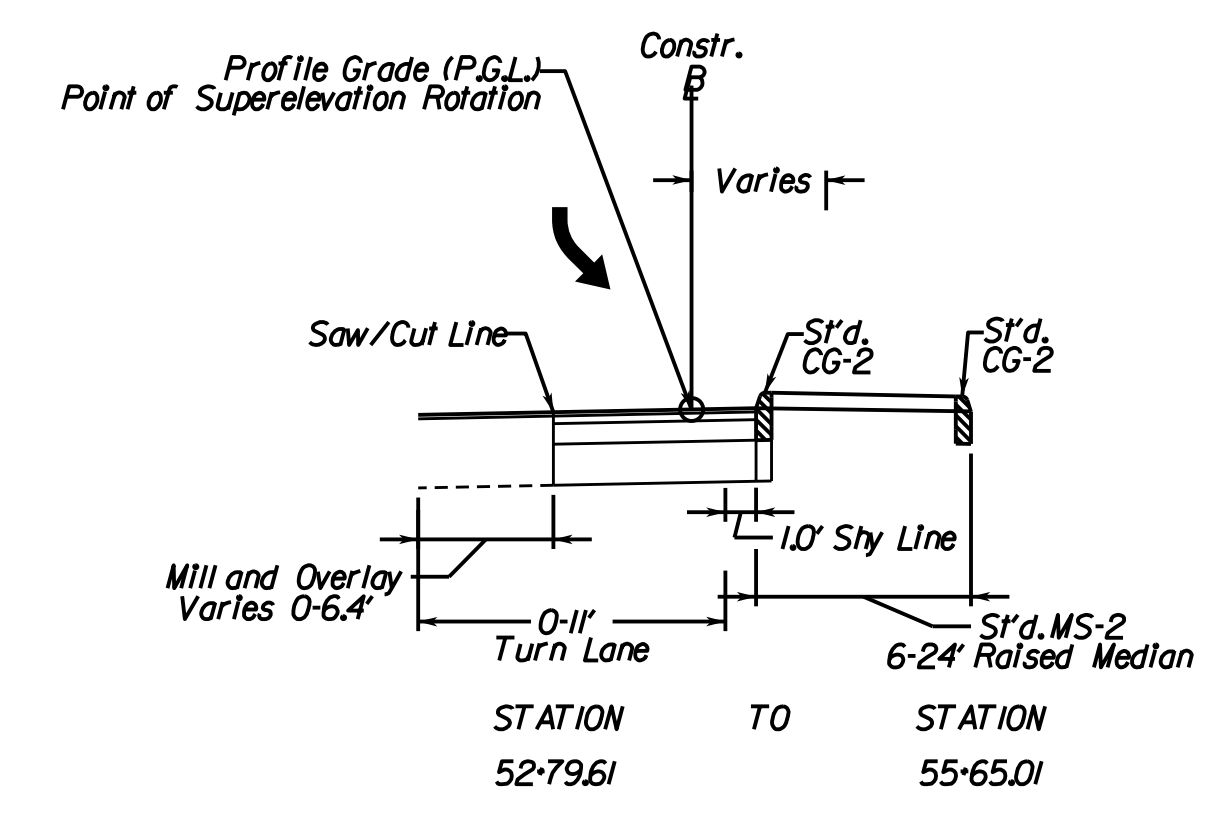
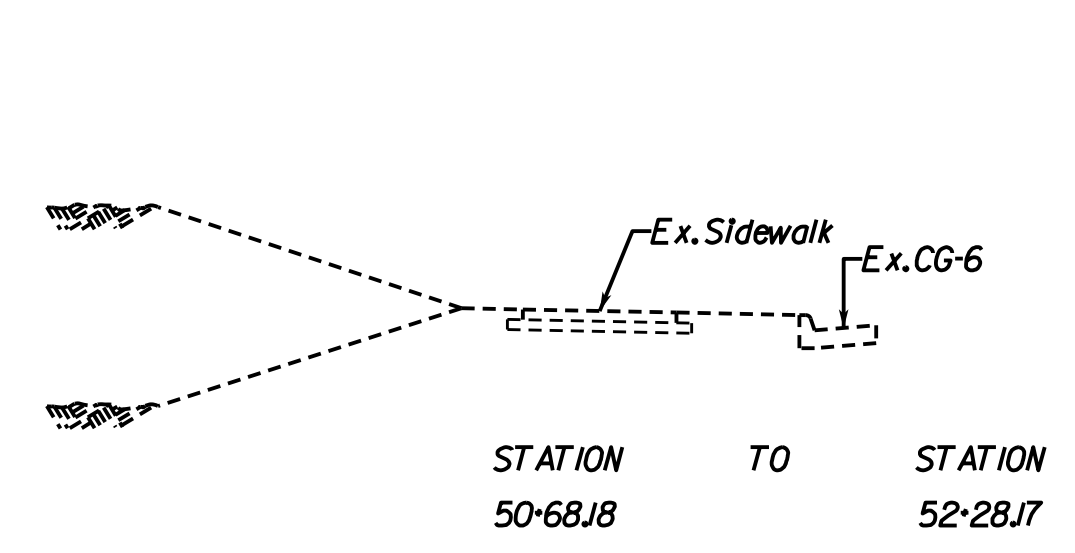
DMY Eng.
Prince William, Virginia
(Materials)

Rinker Design Assoc., P.C.
Fredericksburg, Virginia
(Roadway)

Neabsco Mills Rd., Rte. 638 Normal Crown, 4 Lane Street with Curb & Gutter Geometric Design Standard for Urban Collector Street System (GS-7); V-35 MPH (Not to Scale)



LOCATION	STATION	TO	STATION
Neabsco Mills Rd.	49+53.61		55+65.01

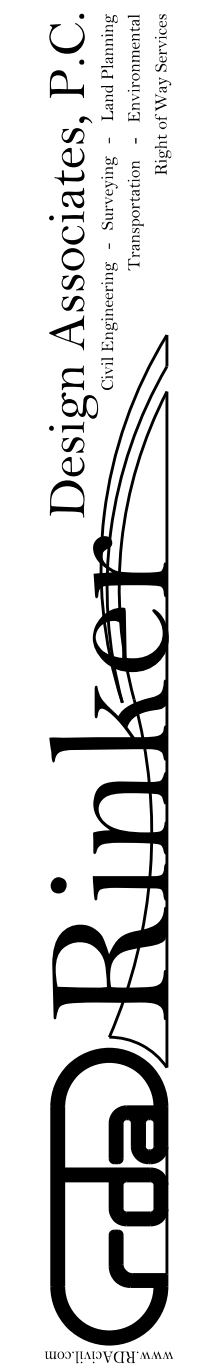


- TYPICAL SECTION NOTES**
- Pavement widening to be performed in accordance with VDOT S'd.WP-2
 - S'd.UD-4 Req'd., see plan sheets for detailed locations.
 - S'd.UD-2 Req'd., see plan sheets for detailed locations.
 - S'd.UD-3 Req'd., see plan sheets for detailed locations.

VDOT PROJECT NO. 0638-076-209 PWCDOT PROJECT NO. SPR2018-00271	SHEET NO. 2A(4)
---	--------------------

THESE PLANS ARE UNFINISHED AND UNAPPROVED AND ARE NOT TO BE USED FOR ANY TYPE OF CONSTRUCTION.

R/W PHASE PLANS



PROJECT MANAGER: PWCDOT - Khattab, Shammaul, P.E. : (703) 792-7193
 SURVEYED BY, DATE: RDA: Ryan Dreel, LS (703) 334-9302, July 3, 2017
 DESIGN BY: RDA: Mack, A. Gunn, P.E. (703) 334-9288
 SUBSURFACE UTILITY BY, DATE: Accurmark (703) 378-0100, August 1, 2017

Typical Sections

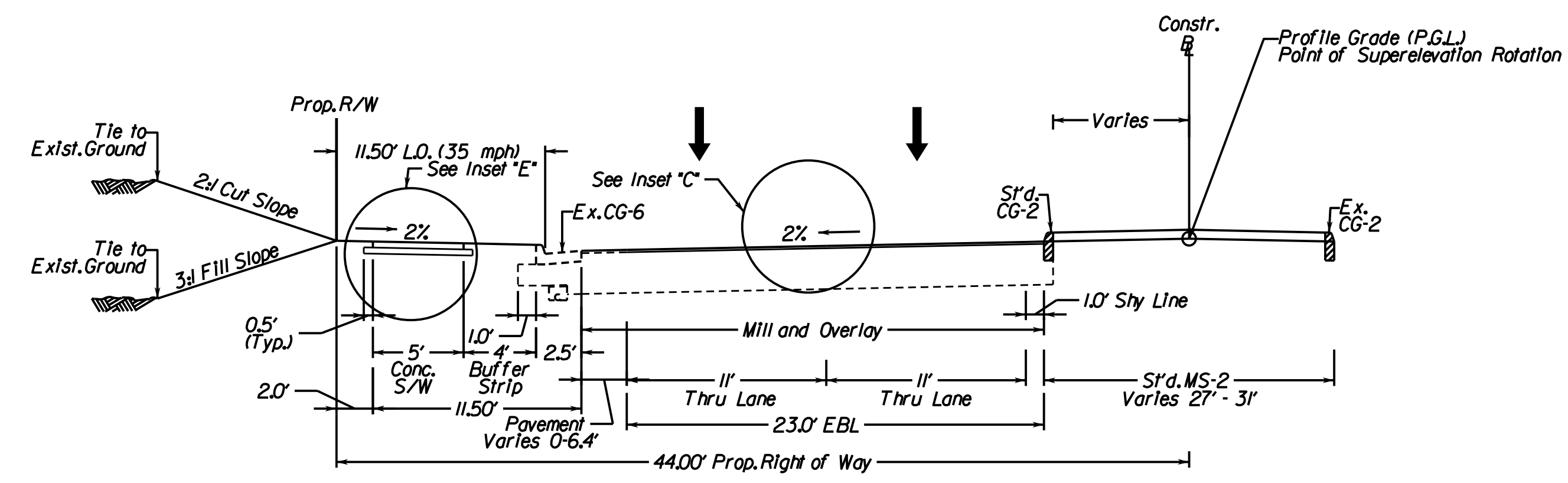
REVISED	STATE		VDOT PROJECT NO.	SHEET NO.
	VA.	ROUTE		
		638	0638-076-209 PE101 CS01 RW201	2A(5)

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

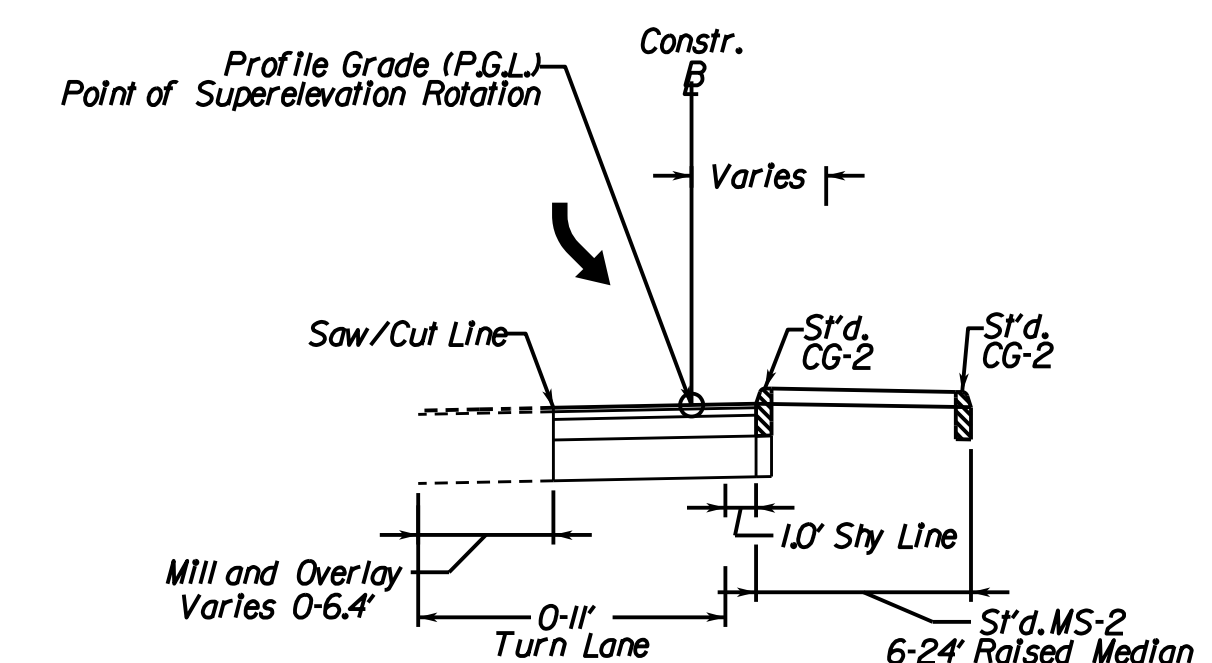
DMY Eng.
Prince William, Virginia
(Materials)

Rinker Design Assoc., P.C.
Fredericksburg, Virginia
(Roadway)

Neabsco Mills Rd., Rte. 638 Normal Crown, 4 Lane Street with Curb & Gutter Geometric Design Standard for Urban Collector Street System (GS-7); V=35 MPH (Not to Scale)

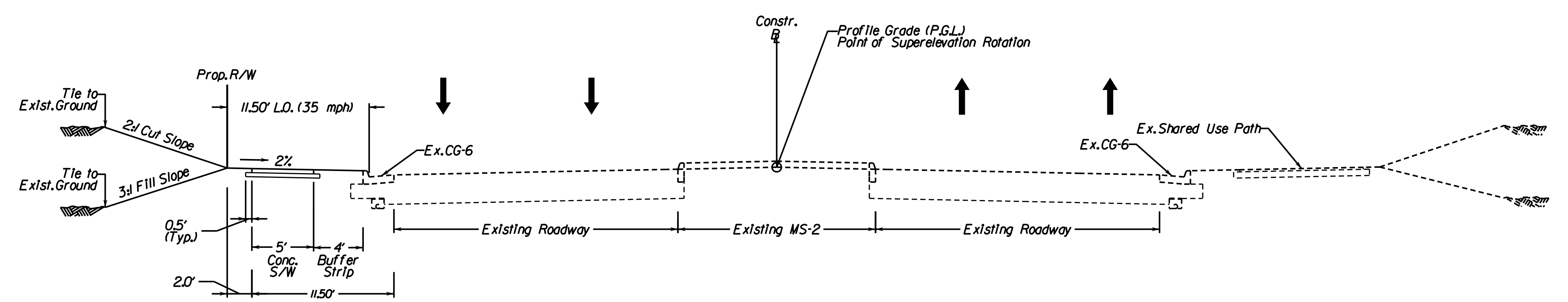


LOCATION: Neabsco Mills Rd.
 STATION: 55+65.01 TO 56+60.02



STATION: 55+65.01 TO 56+50.00

Neabsco Mills Rd., Rte. 638 Normal Crown, 4 Lane Street with Curb & Gutter Geometric Design Standard for Urban Collector Street System (GS-7); V=35 MPH (Not to Scale)



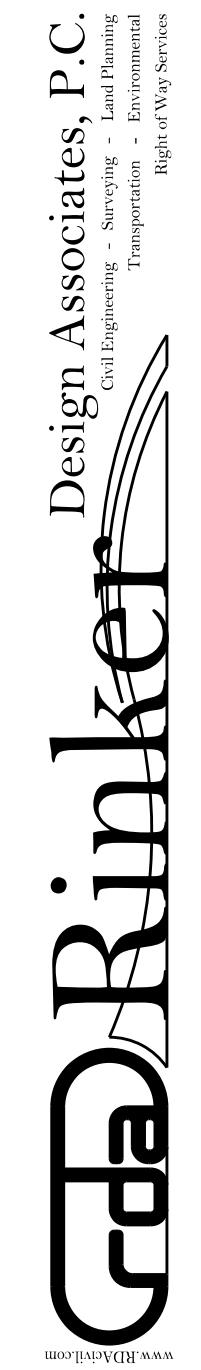
LOCATION: Neabsco Mills Rd.
 STATION: 56+76J5 TO 61+0279

- TYPICAL SECTION NOTES
1. Pavement widening to be performed in accordance with VDOT S'd.WP-2
 2. S'd.UD-4 Req'd., see plan sheets for detailed locations.
 3. S'd.UD-2 Req'd., see plan sheets for detailed locations.
 4. S'd.UD-3 Req'd., see plan sheets for detailed locations.

VDOT PROJECT NO. 0638-076-209 PWCDOT PROJECT NO. SPR2018-00271	SHEET NO. 2A(5)
---	--------------------

THESE PLANS ARE UNFINISHED AND UNAPPROVED AND ARE NOT TO BE USED FOR ANY TYPE OF CONSTRUCTION.

R/W PHASE PLANS



PROJECT MANAGER: EW/COT: Khattab, Shammaout, P.E. (703) 792-7193
SURVEYED BY, DATE: RDA: Ryan Drea/LS (703) 334-9302, July 3, 2017
DESIGN BY: RDA: Mack, Gunn, P.E. (703) 334-9288
SUBSURFACE UTILITY BY, DATE: Accurack (703) 378-0100, August 1, 2017

Typical Sections

REVISED	STATE	ROUTE	STATE	VDOT PROJECT NO.	SHEET NO.
	VA.	638		0638-076-209 PE101 CS01 RW201	2B

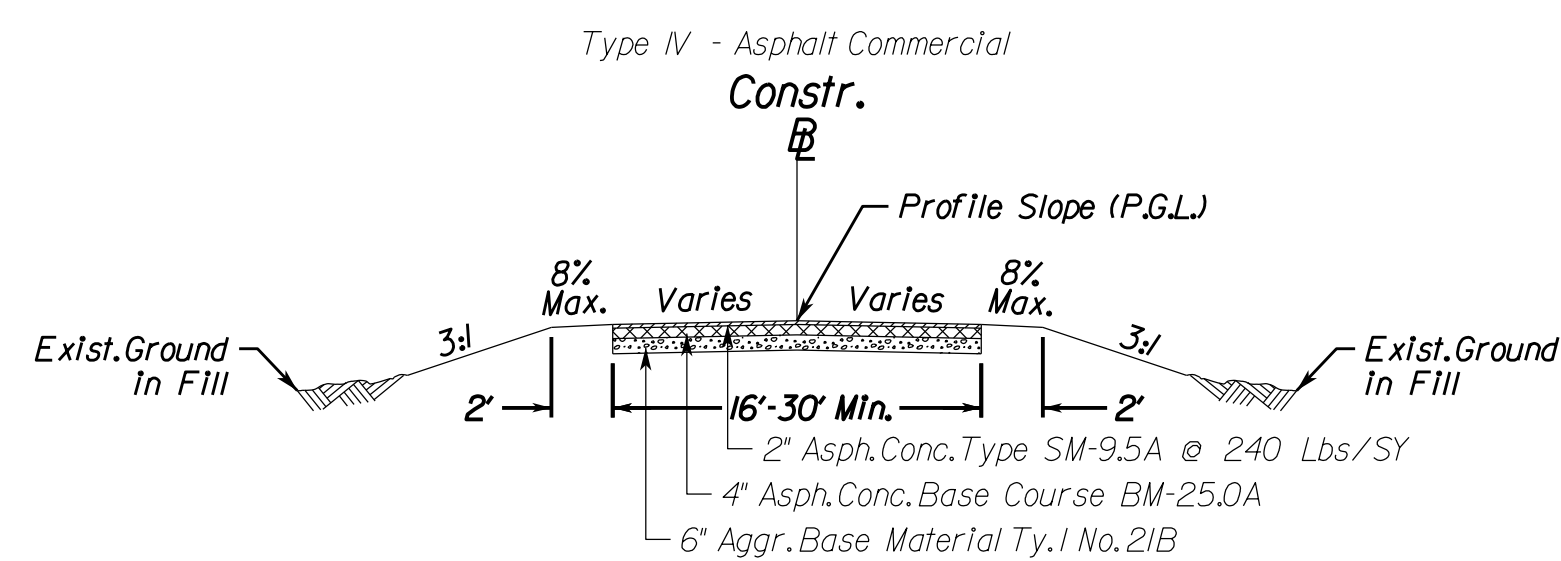
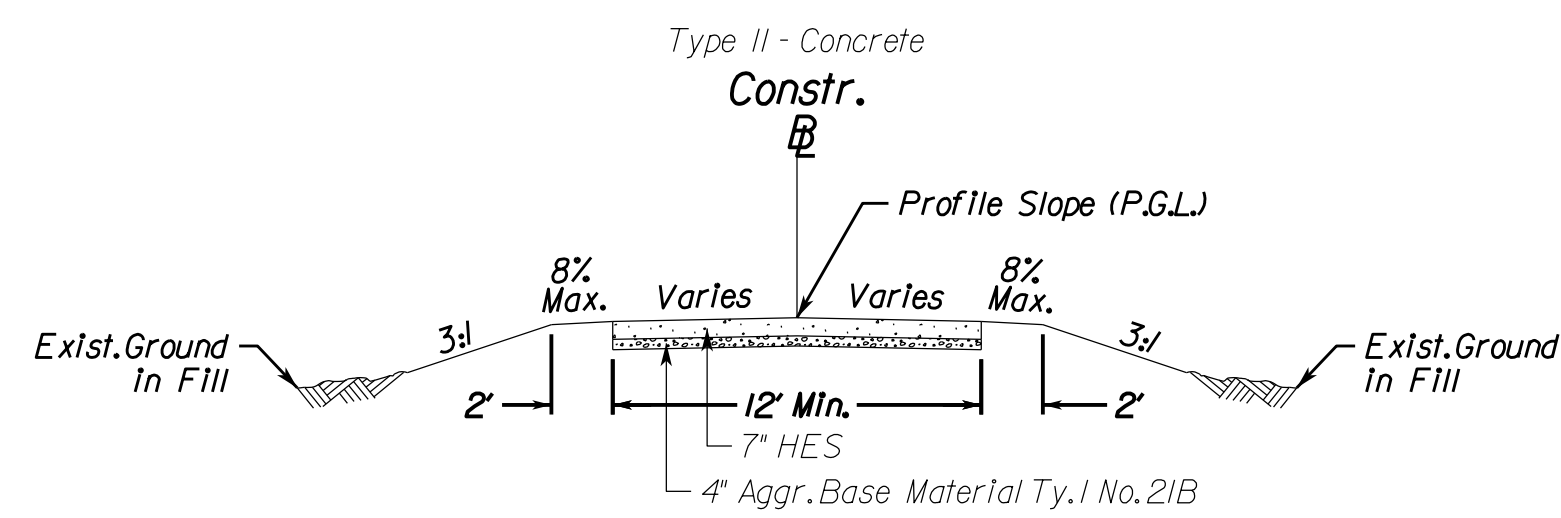
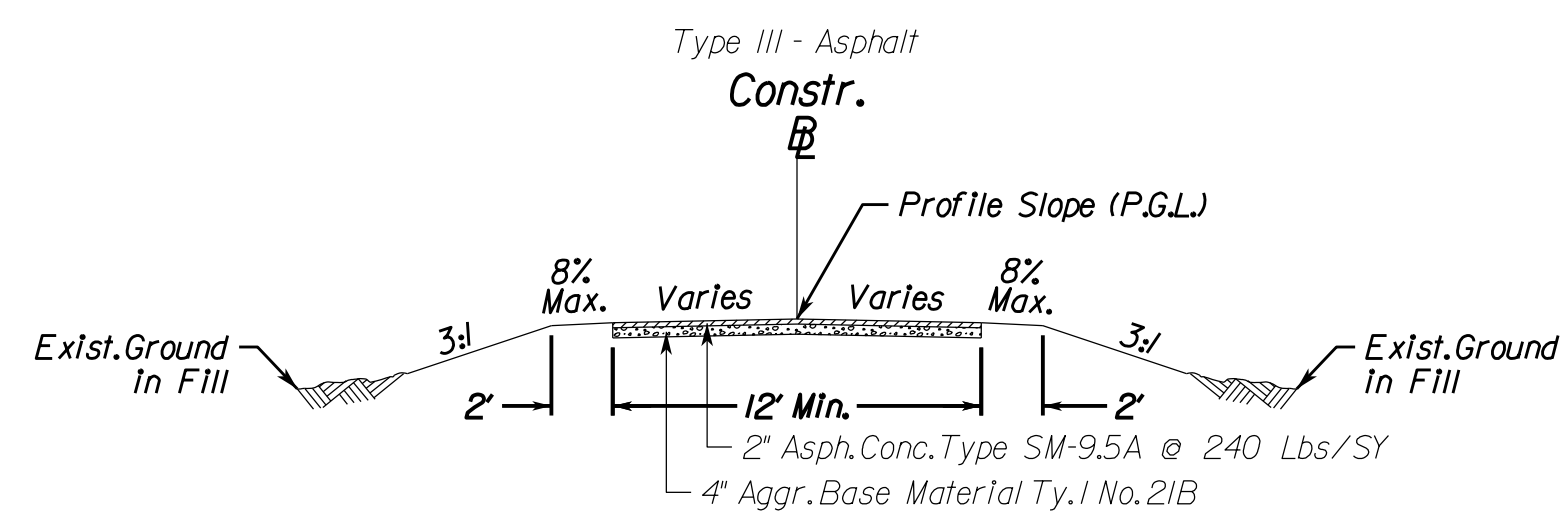
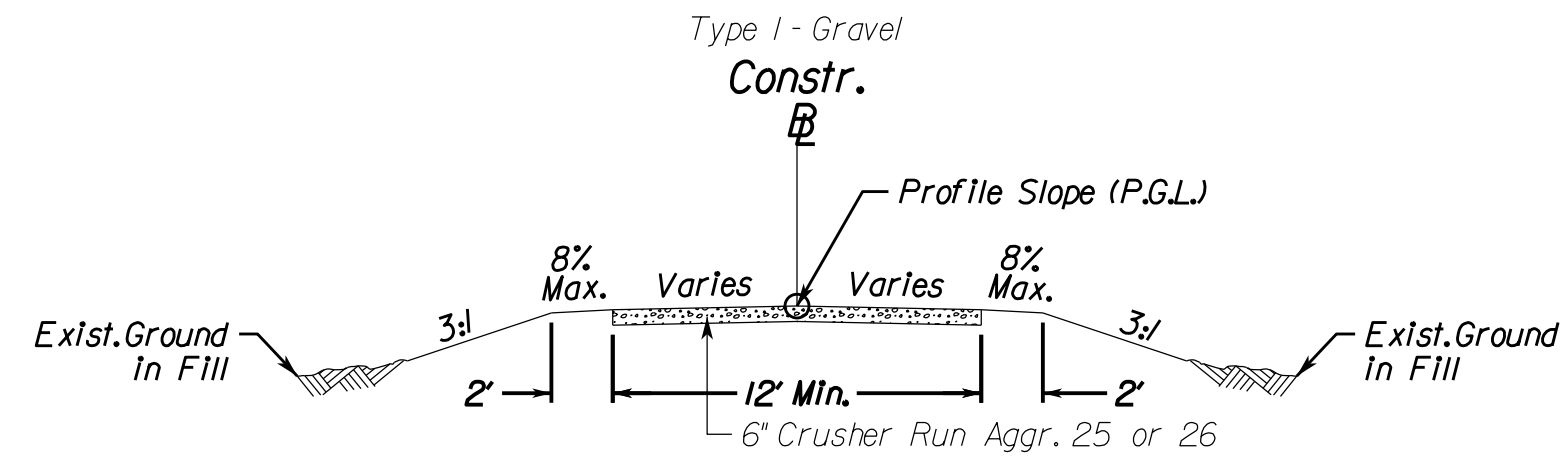
DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT

DMY Eng.
Prince William, Virginia
(Materials)

Rinker Design Assoc., P.C.
Fredericksburg, Virginia
(Roadway)

Private & Commercial Entrances

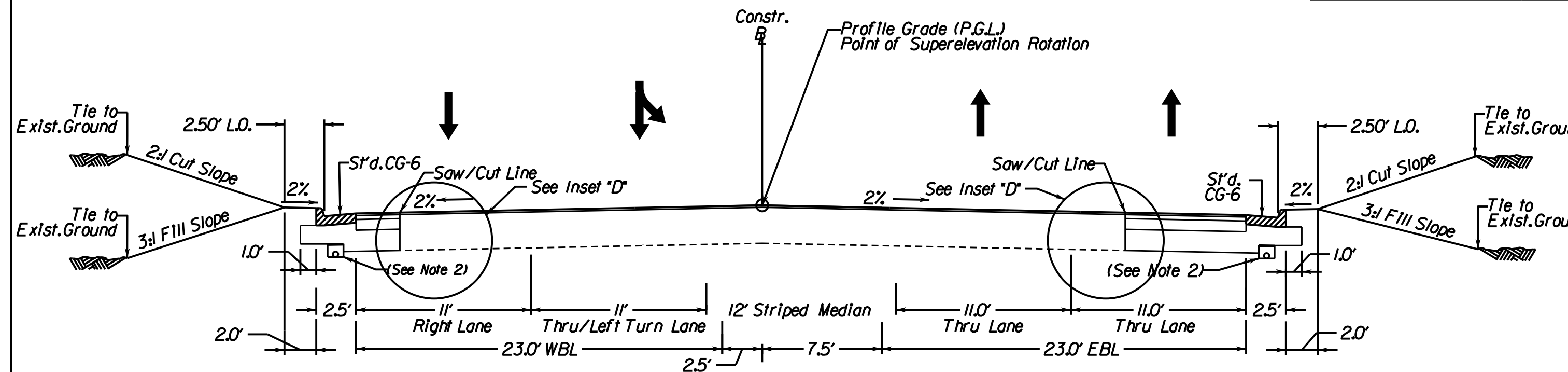
VDOT S't.d. PE-I, CG-9D, CG-II, & CG-I3
(Not to Scale)



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.
See plan view for entrance width and geometry.

Church Entrance Normal Crown, 4 Lane Street with Curb & Gutter

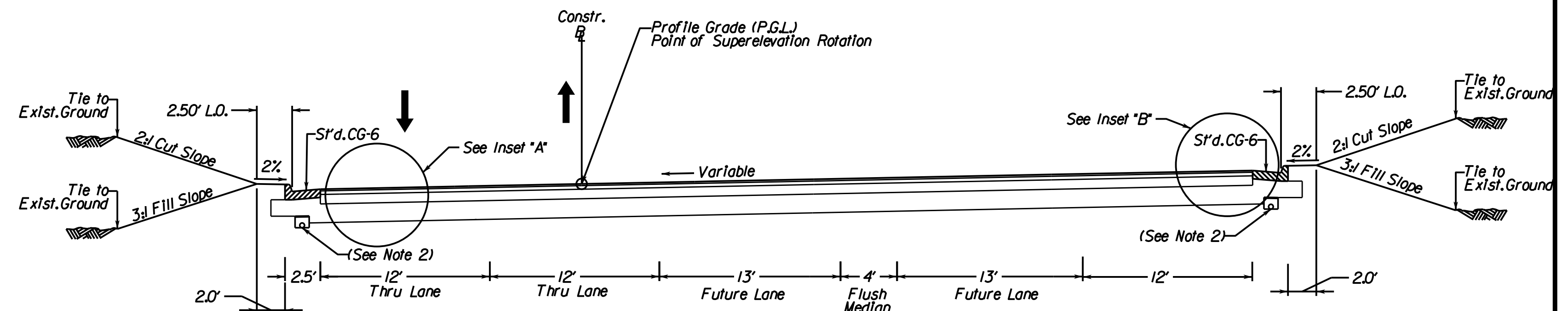
Private Road System
(Not to Scale)



LOCATION	STATION	TO	STATION
Church Entrance	10+60.64		10+97.00

College Dr. South Normal Crown, 2 Lane (Fut. 4 Lane) Street with Curb & Gutter

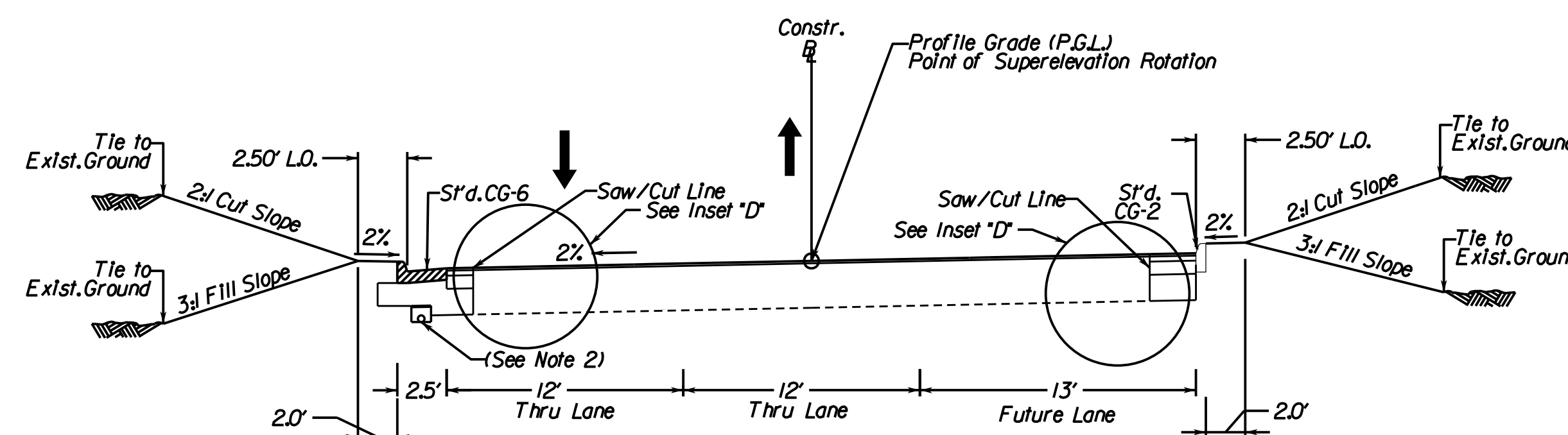
Private Road System
(Not to Scale)



LOCATION	STATION	TO	STATION
College Dr. S.	10+45.50		10+90.58

College Dr. South Normal Crown, 2 Lane (Fut. 4 Lane) Street with Curb & Gutter

Private Road System
(Not to Scale)



LOCATION	STATION	TO	STATION
College Dr. S.	10+90.58		11+33.00

TYPICAL SECTION NOTES

1. Pavement widening to be performed in accordance with VDOT S't.d. WP-2
2. S't.d. UD-4 Req'd., see plan sheets for detailed locations.
3. S't.d. UD-2 Req'd., see plan sheets for detailed locations.
4. S't.d. UD-3 Req'd., see plan sheets for detailed locations.

VDOT PROJECT NO. 0638-076-209 PWCDOT PROJECT NO. SPR2018-00271	SHEET NO. 2B
---	-----------------

THESE PLANS ARE UNFINISHED AND UNAPPROVED AND ARE NOT TO BE USED FOR ANY TYPE OF CONSTRUCTION.

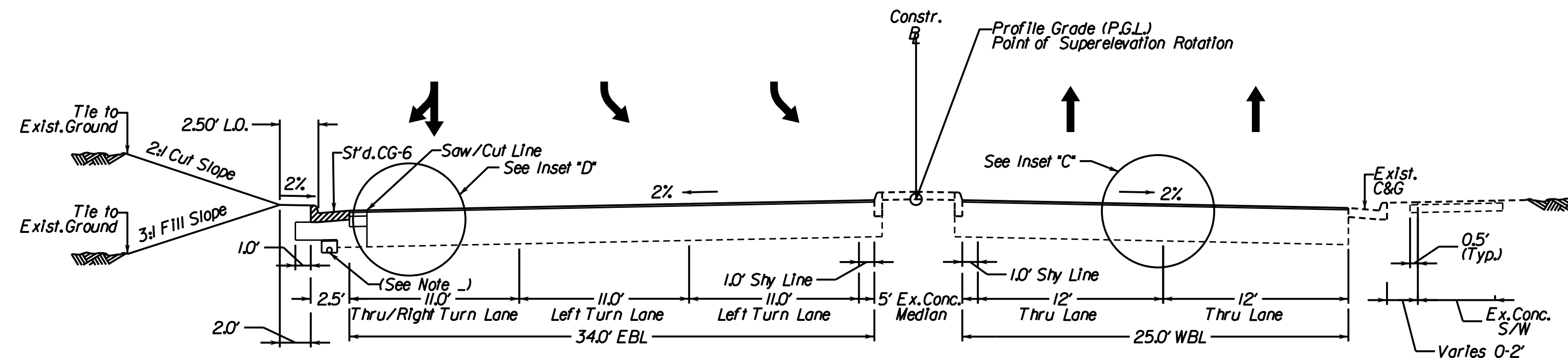
R/W PHASE PLANS

PROJECT MANAGER: EWCDOT - Khattab, Shammout, P.E. (703) 792-7193
 SURVEYED BY, DATE: RDA: Bryan Dreel, LS (703) 334-9302, July 3, 2017
 DESIGN BY: RDA: Mack, Gunn, P.E. (703) 334-9288
 SUBSURFACE UTILITY BY, DATE: Accurack (703) 378-0100, August 1, 2017

Typical Sections

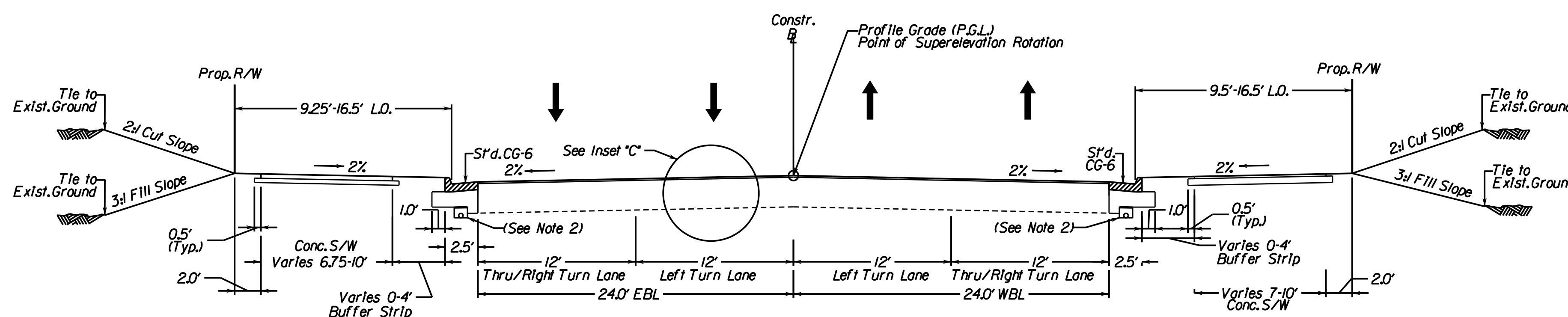
REVISED	STATE	STATE	SHEET NO.
	VA.	ROUTE 638	
DMY Eng. Prince William, Virginia (Materials)		Rinker Design Assoc., P.C. Fredericksburg, Virginia (Roadway)	
DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT			

College Dr. North Normal Crown, 5 Lane Street with Curb & Gutter Private Road System (Not to Scale)

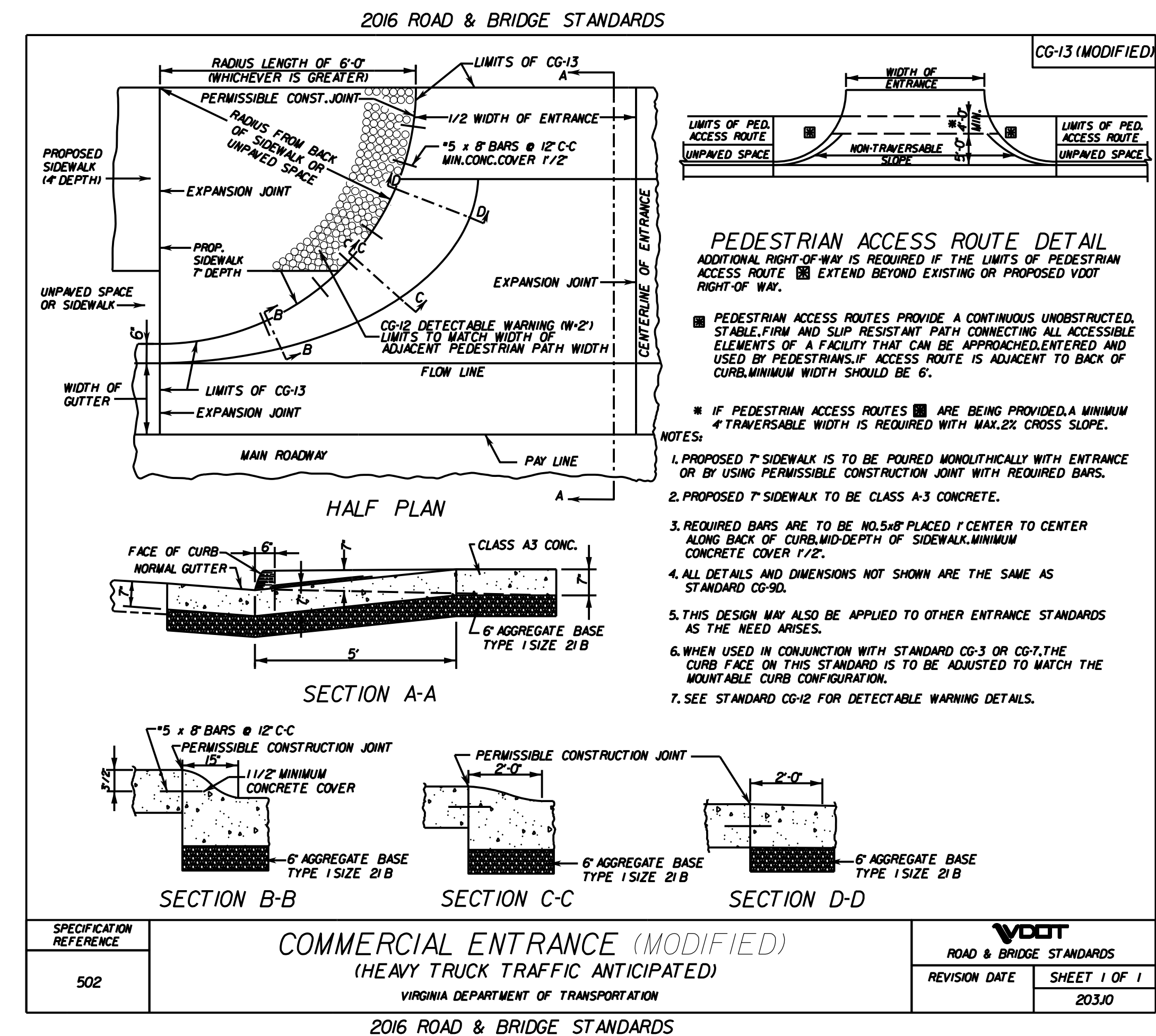


LOCATION: College Dr. N.
 STATION TO STATION: 10+72.95 TO 10+91.50

Freedom High School Entrance Normal Crown, 4 Lane Street with Curb & Gutter Private Road System (Not to Scale)



LOCATION: Neabsco Mills Rd.
 STATION TO STATION: 10+81.32 TO 11+10.77

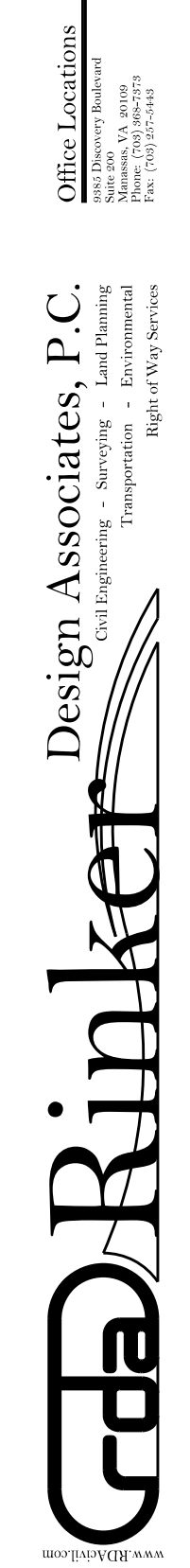


- TYPICAL SECTION NOTES
- Pavement widening to be performed in accordance with VDOT S'd.WP-2
 - S'd.U.D-4 Req'd., see plan sheets for detailed locations.
 - S'd.U.D-2 Req'd., see plan sheets for detailed locations.
 - S'd.U.D-3 Req'd., see plan sheets for detailed locations.

THESE PLANS ARE UNFINISHED AND UNAPPROVED AND ARE NOT TO BE USED FOR ANY TYPE OF CONSTRUCTION.

R/W PHASE PLANS

VDOT PROJECT NO. 0638-076-209 PWCDOT PROJECT NO. SPR2018-00271	SHEET NO. 2B(1)
---	--------------------



PROJECT MANAGER: EWCDOT - Khattab, Shamout, P.E. (703) 792-7193
 SURVEYED BY, DATE: RDA: Ryan Drealet, LS (703) 334-9302, July 3, 2017
 DESIGN BY: RDA: Mack, Gunn, P.E. (703) 334-9288
 SUBSURFACE UTILITY BY, DATE: Accurmark (703) 378-0100, August 1, 2017

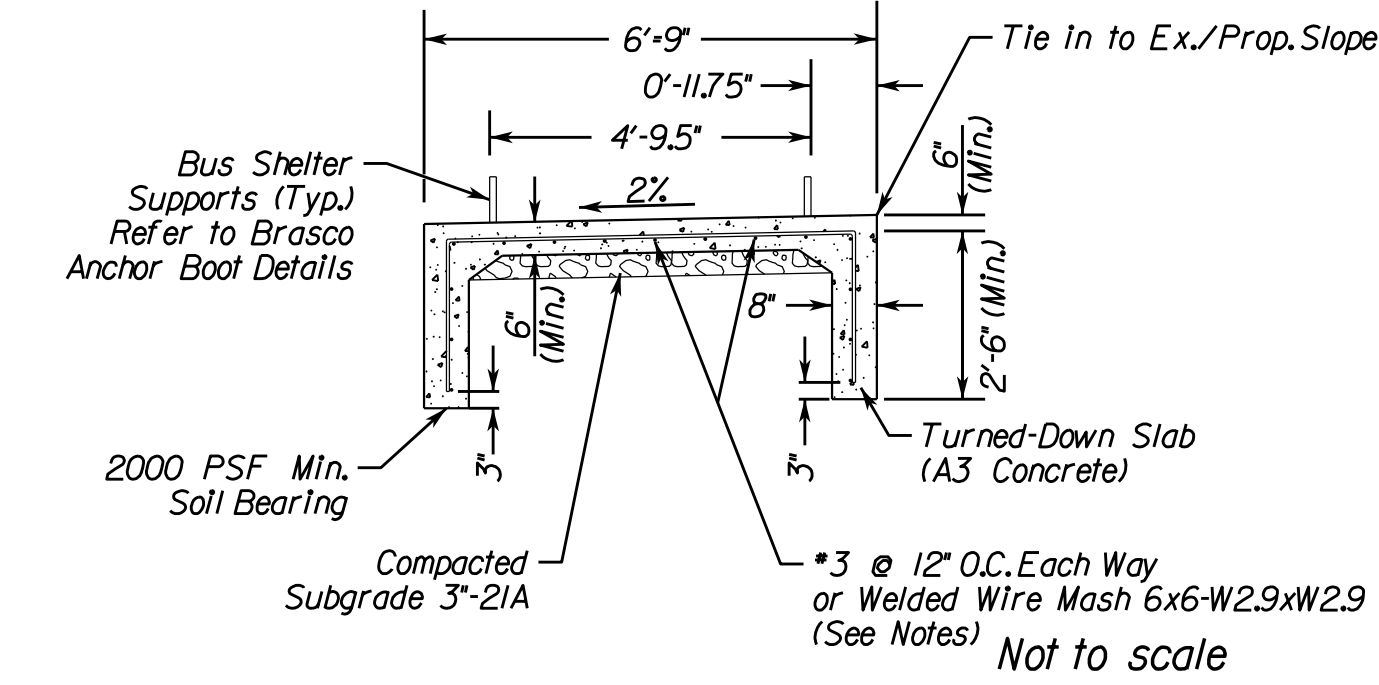
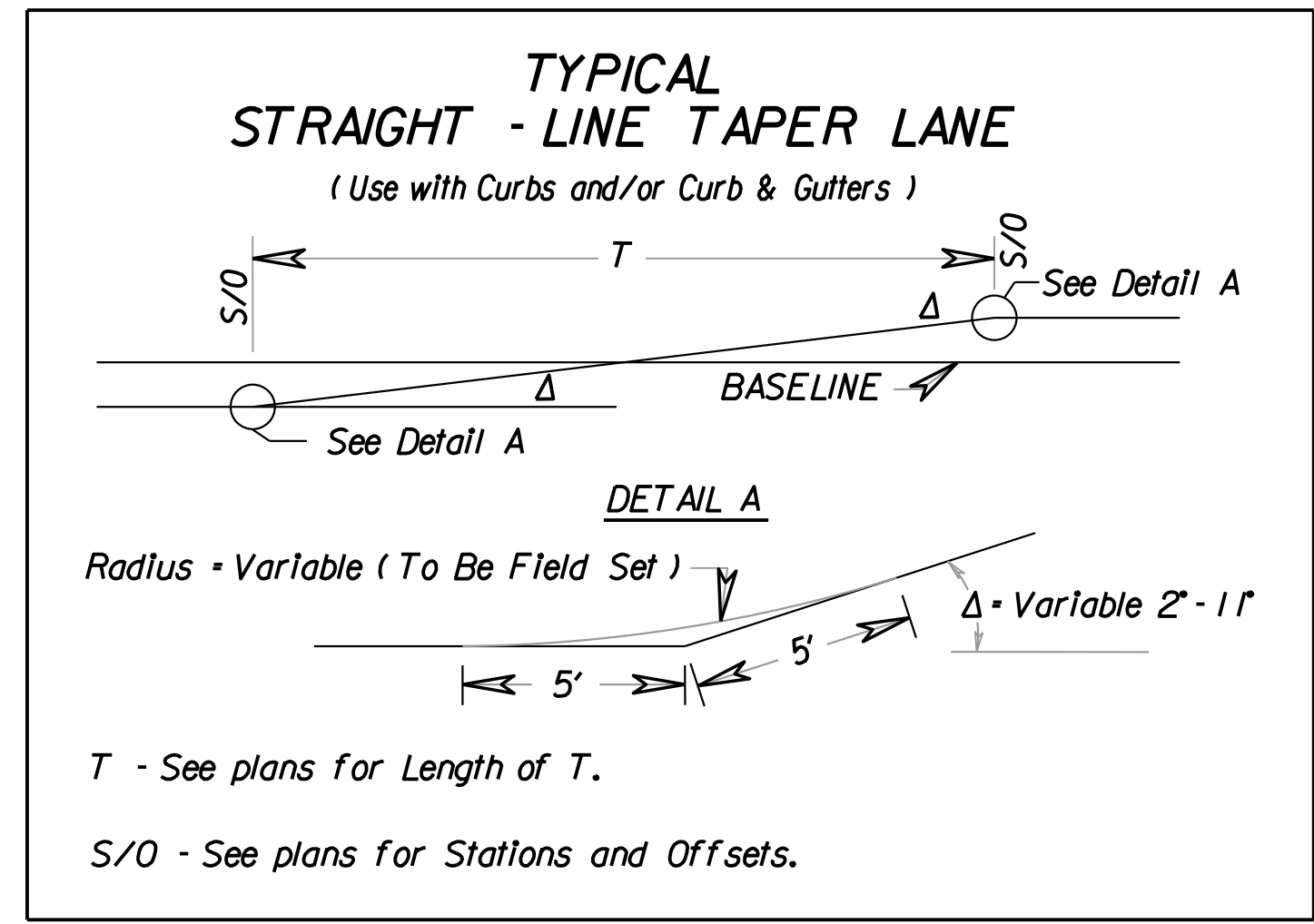
Typical Sections

REVISED	STATE	ROUTE	STATE	VDOT PROJECT NO.	SHEET NO.
	VA.	638		0638-076-209 PE/01 CS/01 RW/201	2B(2)

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

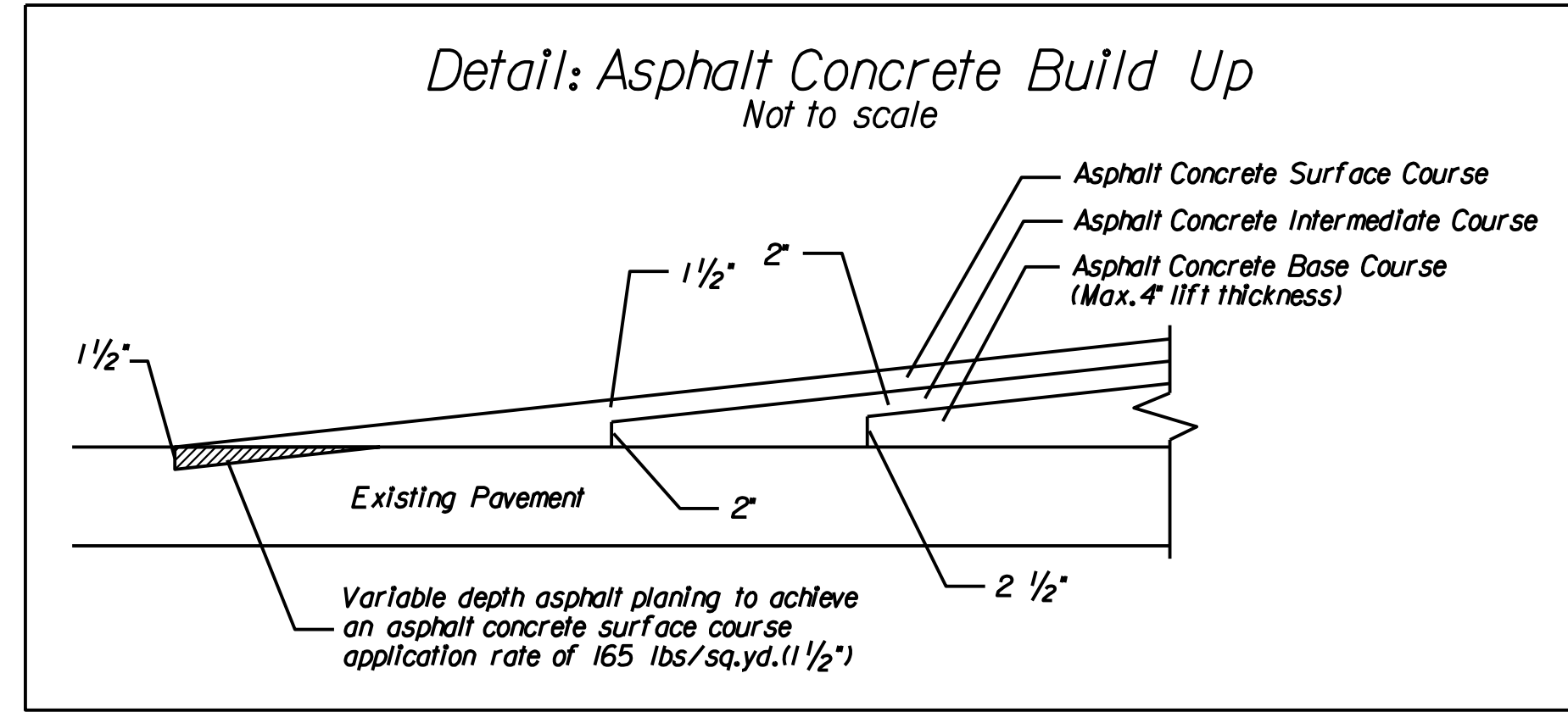
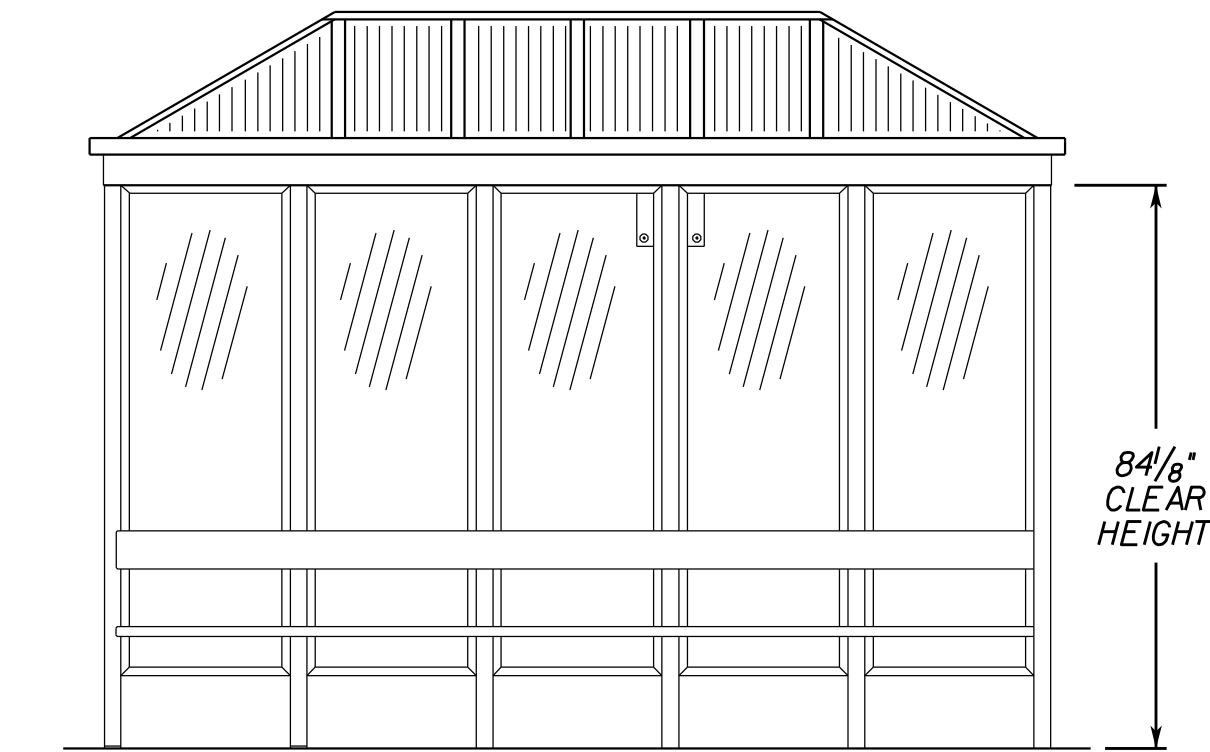
DMY Eng.
Prince William, Virginia
(Materials)

Rinker Design Assoc., P.C.
Fredericksburg, Virginia
(Roadway)



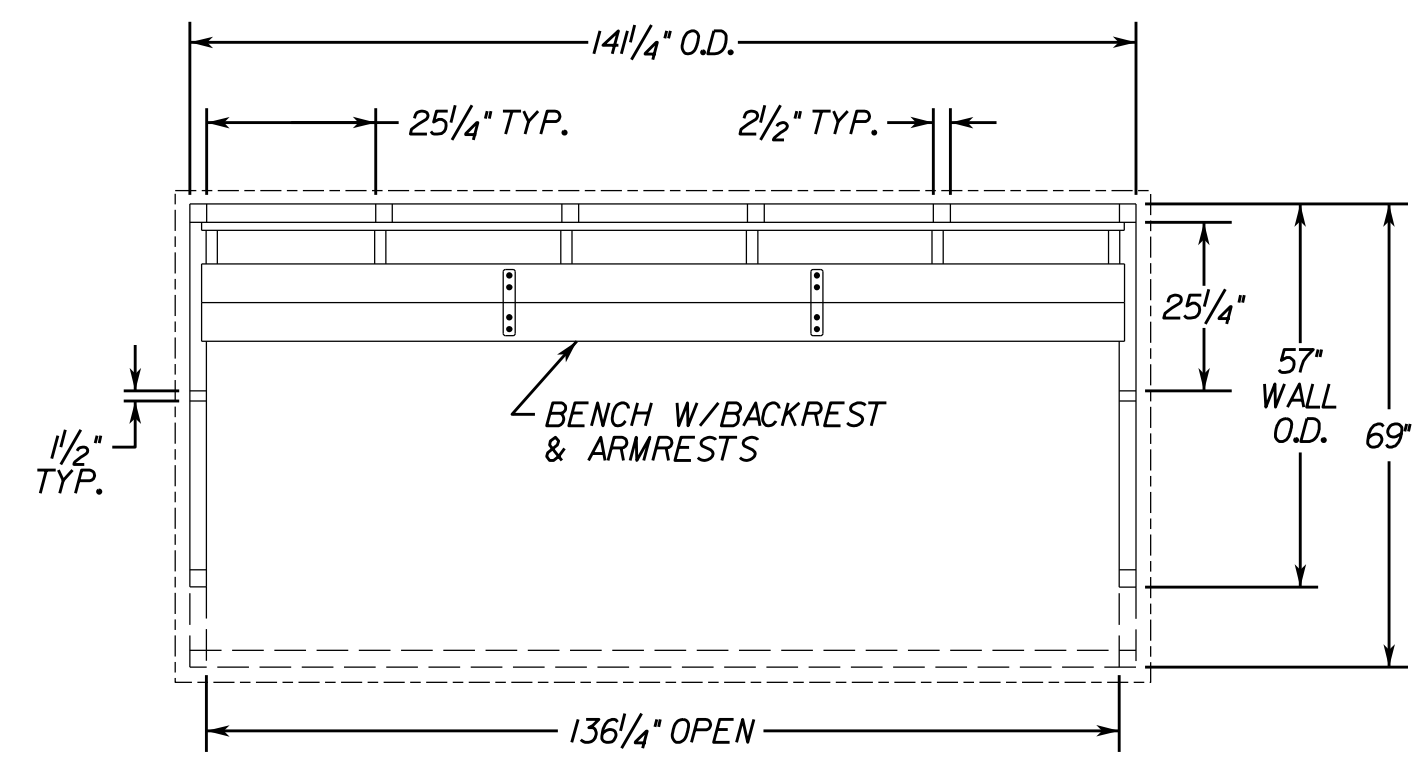
BUS SHELTER FOUNDATION NOTES

- All fill material shall be compacted to 95% of theoretical maximum density as determined by A.A.S.H.T.O.T-99 Method A, within plus or minus 2 percentage points of optimum moisture for the full width of fill section
- Concrete for bus shelter foundation shall be class 3 per VDOT section 217 Table II-17 with a minimum compressive strength of 3000 PSI
- The reinforcement to be turned down into the concrete "dropped edge". All reinforcing steel shall have a min. cover of 2" and all overlap splices in bars to be a min. 1.5 feet.

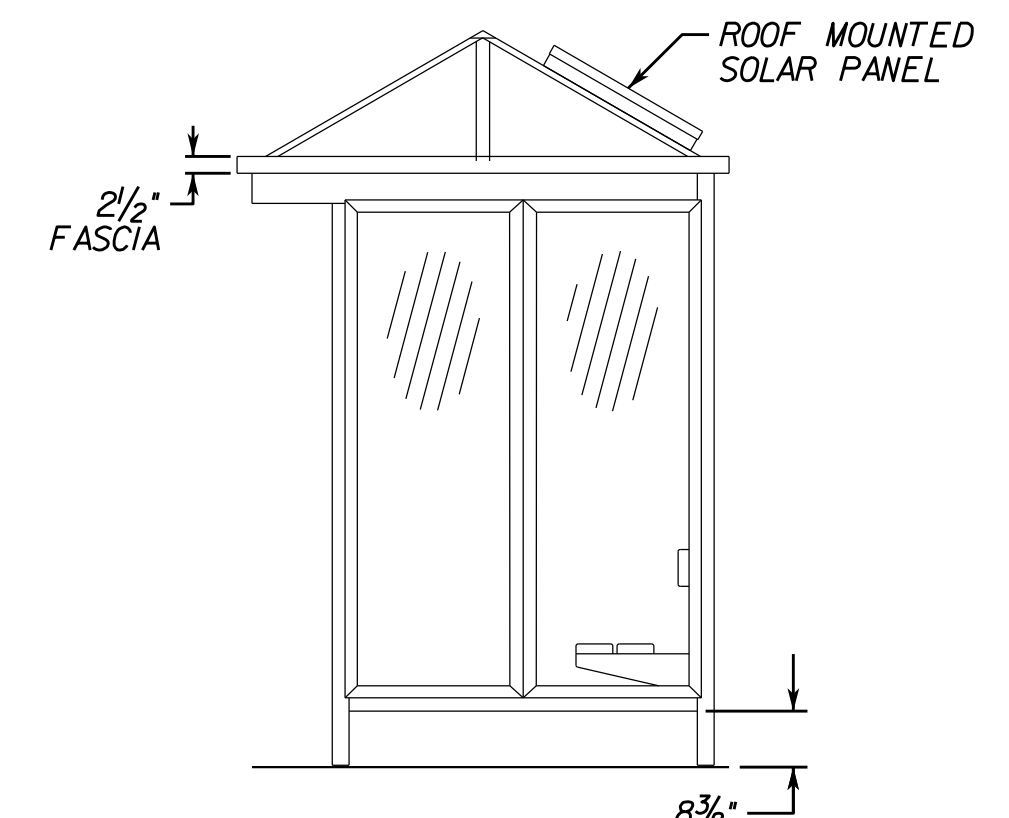


BUS SHELTER FOUNDATION

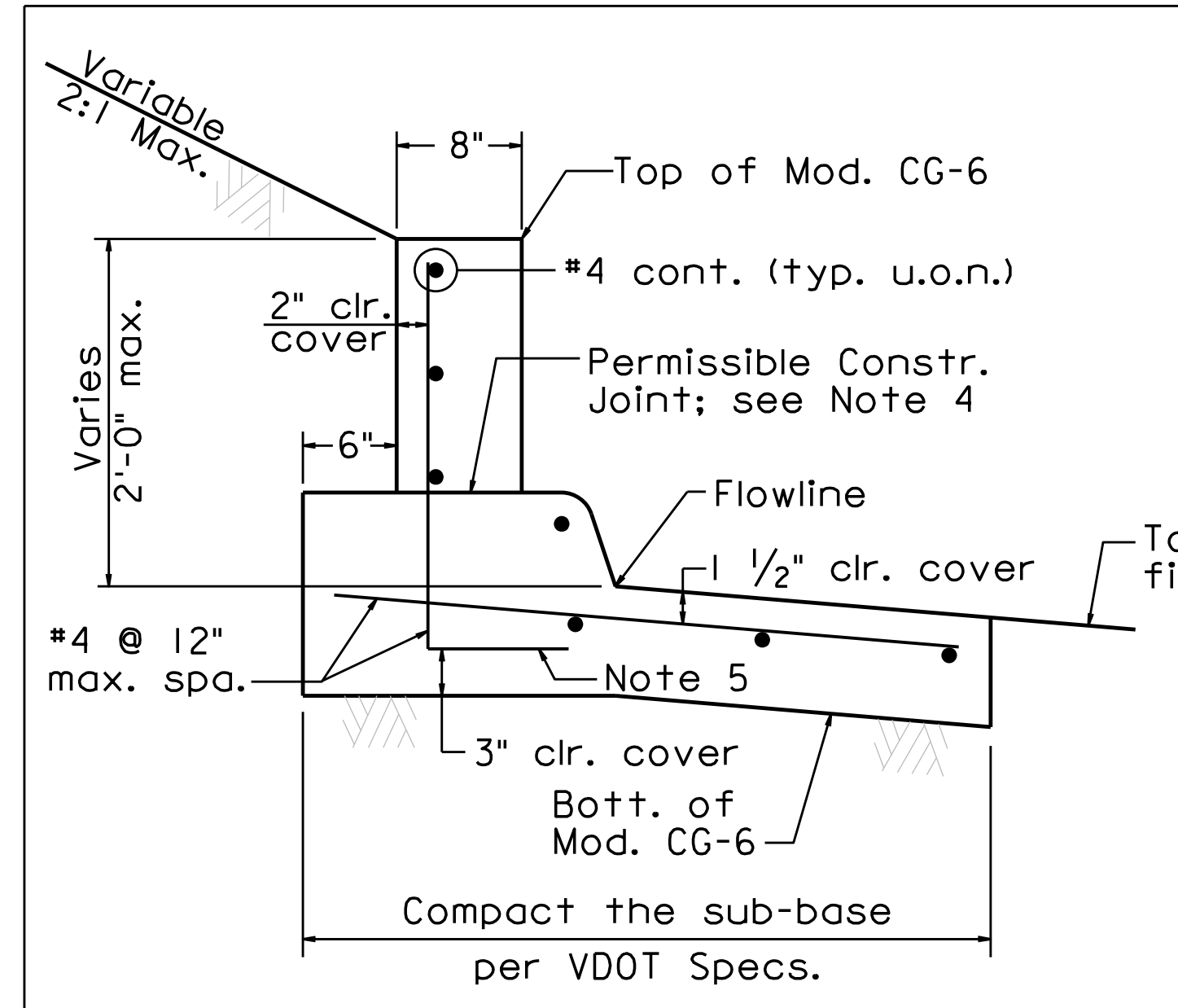
FRONT ELEVATION



PLAN VIEW



SIDE ELEVATION



- Notes:**
- See Std. CG-6 for additional information.
 - Concrete shall be Class A3.
 - Steel reinforcement shall be ASTM A615 Grade 60 deformed plain bars.
 - The indicated construction joint shall be roughened and free of laitance.
 - The indicated rebars shall have min. hook length per VDOT standards.

Modified CG-6 Typical Section
(Sta. 20+41 to 20+56)
N.T.S.

NOTE: BUS SHELTER PLANVIEW AND TYPICAL ELEVATIONS SHOWN ARE FOR INFORMATION PURPOSES ONLY. CONTRACTOR SHALL PROVIDE SHOP DRAWINGS, PRIOR TO CONSTRUCTION AND ORDERING, TO COUNTY FOR REVIEW AND APPROVAL.

THESE PLANS ARE UNFINISHED AND UNAPPROVED AND ARE NOT TO BE USED FOR ANY TYPE OF CONSTRUCTION.

R/W PHASE PLANS

VDOT PROJECT NO. 0638-076-209 PWCDOT PROJECT NO. SPR2018-00271	SHEET NO. 2B(2)
---	--------------------

Rinker Design Associates, P.C.
 Civil Engineering, Surveying, Land Planning,
 Transportation, Environmental
 10000 Lee Highway, Suite 100
 Fairfax, VA 22031
 Phone: (703) 441-1111
 Fax: (703) 441-1112
 www.rinker.com

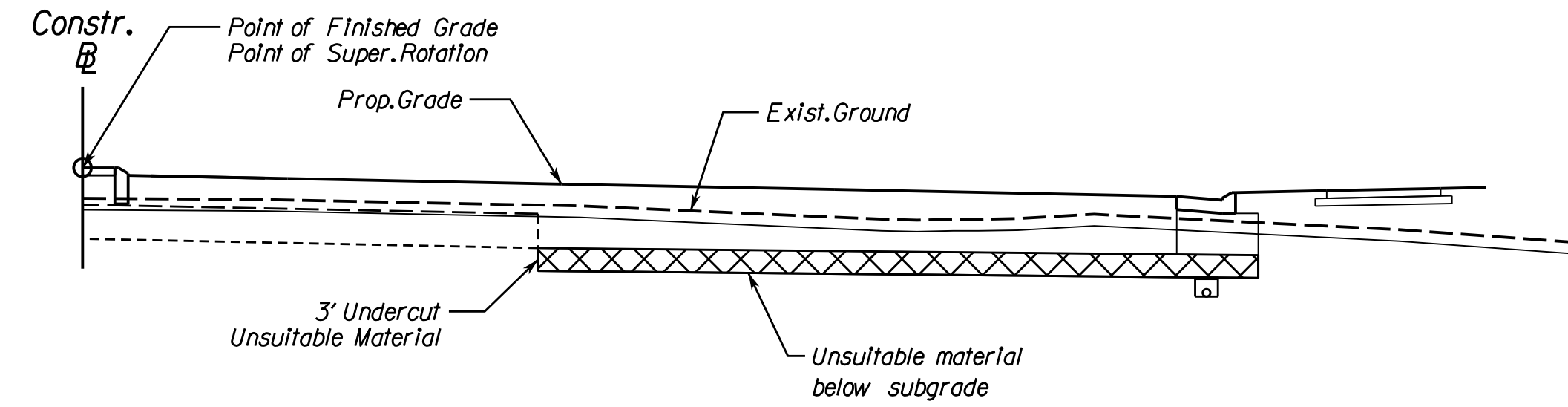
PROJECT MANAGER: EWCDOT - Khattab, Shammout, P.E. (703) 792-7193
SURVEYED BY, DATE: RDA: Ryan Dreehl, LS (703) 334-9302, July 3, 2017
DESIGN BY: RDA: Mack, A. Gunn, P.E. (703) 334-9288
SUBSURFACE UTILITY BY, DATE: Accumark (703) 378-0100, August 1, 2017

Geotechnical Recommendations

REVISED	STATE	STATE		SHEET NO.
	VA.	ROUTE	VDOT PROJECT NO.	
		638	0638-076-209 PE/01 CS/01 RW/201	2C
DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT				
DMY Eng. Prince William, Virginia (Materials)		Rinker Design Assoc., P.C. Fredericksburg, Virginia (Roadway)		

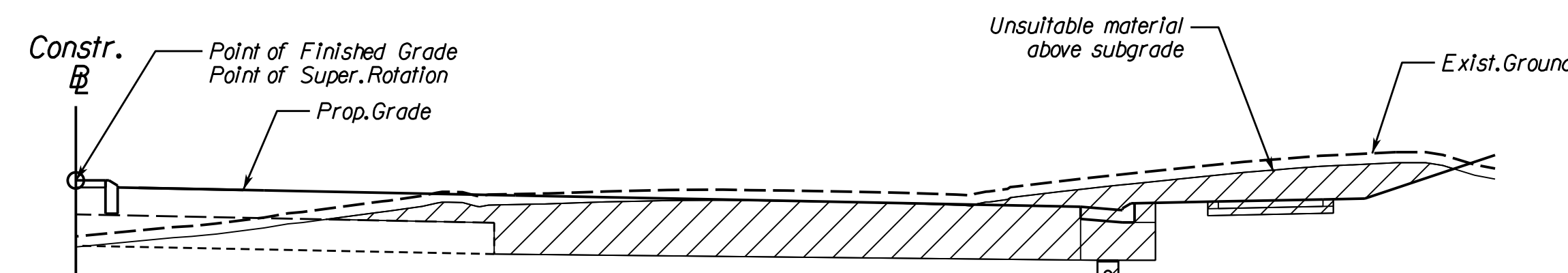
Neabsco Mills Rd., Rte. 638 Generalized Method of Removing Unsuitable Undercut Excavation

See X-sect's for locations of Unsuitable Undercut
(Not to Scale)



Neabsco Mills Rd., Rte. 638 Generalized Method of Removing Unsuitable in Fill Excavation

See X-sect's for locations of Unsuitable Undercut
(Not to Scale)



Pattern Legend

- Unsuitable material to be removed below existing surface and replaced with replacement material.
- Replacement material - See Summary of Unsuitable Materials and Undercut Replacement Detail (This Sheet)
- Denotes Unsuitable Soil to be removed or treated before being used as fill. All material above subgrade shall be removed.

See Approved Geotechnical Report for pavement design, geotechnical information and additional details.

6.8. DRAINAGE PIPE

New drainage pipes are planned as part of the project. Based on the design drawings provided by RDA dated August 21, 2018, the following table provides a summary of the drainage pipes with a size of 36 inches or greater.

Structure ID	Structure Dimensions	Invert Elevations (feet)	Reference Boring
3-1 to 3-3	36" Storm Sewer Pipe (55')	13.57 to 13.90	B-01
3-3 to 3-4	36" Storm Sewer Pipe (23')	14.00 to 14.15	B-01
3-4 to 3-6	36" Storm Sewer Pipe (93')	14.25 to 14.80	B-01 and B-03
3-6 to 3-9	36" Storm Sewer Pipe (119')	14.90 to 15.90	B-03 and RW-2
3-9 to 3-10	36" Storm Sewer Pipe (88')	17.31 to 18.00	B-05 and RW-3
3-10 to 4-1	36" Storm Sewer Pipe (134')	21.46 to 22.75	B-05 and P-1
4-1 to 4-4	36" Storm Sewer Pipe (194')	28.60 to 30.50	P-1 and P-2

Based on the soil testing boring data, we recommend that the bedding should be placed in accordance with the requirements of VDOT Standard Detail PB-1 and the applicable sections of VDOT Road and Bridge Specifications. Any unsuitable subgrade soils found during construction must be undercut and replaced with compacted VDOT No. 25 or 26 bedding materials in accordance with the VDOT drainage pipe and culvert backfilling standards. All pertinent VDOT specifications for storm drain and embankment construction should also be followed.

If groundwater is encountered during construction, we recommend placing VDOT No. 2 or No. 57 to 4 to 6 inches below the pipe invert. The VDOT No. 2 or No. 57 Stone shall be wrapped in woven subgrade stabilization geotextile. The remaining 4 to 6 inches of pipe subgrade should consist of compacted VDOT No. 25 or 26 bedding materials.

6.3.2. UNSUITABLE SOILS

Unsuitable soils generally include soils that have excessive moisture, high plasticity (Liquid Limits greater than 50%), soils with low SPT N-values (less than 5 bpf), low CBR value (CBR < 5), high swell (swell > 5%), and soils containing excessive debris and organics. The pavement subgrade soil conditions at the drilled boring locations are summarized in Table DI in Appendix D. The types and recommended treatment methods of the unsuitable soils are discussed in detail in the following paragraphs. Additionally, any borrow materials to be used within 3 feet of the proposed pavement subgrade shall have a CBR value of 7.5 or greater.

Excessively Moist Subgrade Soils:

Along some parts of the project alignment, the soils at/near the proposed subgrade were found to be excessively moist (greater than 120% of the optimum moisture contents) at the time of field exploration. This condition has the potential to cause pumping problems during subgrade and base construction. Upon completion of any necessary excavation, if any of these areas are identified as unstable by proofrolling, we recommend undercutting the excessively moist and unstable subgrade soils 3 feet from the proposed pavement subgrade elevation and replacing with compacted suitable fills with a minimum CBR value of 5. Depending on the weather conditions at the time of subgrade construction, the locations and quantities of the excessively moist subgrade soils may be different and may be adjusted by the Geotechnical Engineer of Record or an authorized representative at the time of construction.

Low CBR, Highly Plastic, and Loose/Soft Subgrade Soils:

Low CBR (< 5), highly plastic (LL > 50), and loose/soft subgrade soils were encountered under the proposed pavement at the subgrade elevations in some borings. Where encountered, we recommend undercutting the unsuitable soils in its entirety or 3 feet from the proposed pavement subgrade elevation and replacing with compacted suitable fills with a minimum CBR value of 5.

High Swell (> 5%) Subgrade Soils:

High swell (> 5%, as obtained from CBR test) soils were not encountered at the proposed subgrade elevations in any of the borings.

The approximate locations where unsuitable soils are anticipated are listed in the following table.

6.4. FILL EMBANKMENTS

New fill embankments are needed to establish the proposed grades. Based on the cross sections developed by RDA dated July 3, 2018, the table below summarizes the areas that embankment fill greater than 10 feet in high are proposed.

The subsurface soil settlements under the loads of the new embankment fill were analyzed using the computer program Settle3D, which models the load and subsurface conditions in a three dimensional environment. Soil parameters used in the settlement analyses were established according to the procedures discussed in Section 6.1, Soil Parameters of this report. The specific soil parameters for the analysis section are included in the program outputs in Appendix F of this report. The results of the settlement analysis are summarized in the following table.

Based on VDOT requirements (VDOT MOI Chapter III), the total settlement should be less than 2 inches over the initial 20-years. Due to the excessive settlement, we recommend undercutting 6 feet of the existing clay layer beneath the pavement and sidewalk, and replacing it with suitable fill material. The anticipated settlement will be 1.71 inches after undercutting.

Station No.	Fill Location	Analysis Section (Station)	Maximum Fill Height (ft)	Reference Boring
43+75 to 45+75	Southbound Lanes	44+25 to 45+00	14.0	B-33, B-34, B-35

Roadway	Approx. Starting Station	Approx. Ending Station	Subsurface Conditions	Recommendation
Rte. 638	13+70	14+70	High Moisture Content	36" Undercut
	16+80	24+80	High Moisture Content	36" Undercut
	25+80	26+80	High Plasticity (CH/MH), High Moisture Content	36" Undercut
	26+80	30+80	High Moisture Content	36" Undercut
	31+80	36+40	High Moisture Content	36" Undercut
	38+00	39+00	High Plasticity (CH/MH), High Moisture Content	36" Undercut
	42+00	48+00	High Moisture Content	36" Undercut
	48+00	49+50	High Moisture Content	36" Undercut
	49+50	52+50	High Plasticity (CH/MH), High Moisture Content	36" Undercut
	52+50	54+18	High Moisture Content	36" Undercut

Roadway	Approx. Starting Station	Approx. Ending Station	Maximum Settlement at the Completion of Construction	Maximum Settlement at 20 Years (in)	Recommendation
Rte. 638	43+75	45+75	2.86	2.86	Undercut 6 feet of the existing clay layer beneath the new pavement and sidewalk and replace with suitable fill material.

VDOT PROJECT NO. 0638-076-209 PWCDOT PROJECT NO. SPR2018-00271	SHEET NO. 2C
---	-----------------

THESE PLANS ARE UNFINISHED AND UNAPPROVED AND ARE NOT TO BE USED FOR ANY TYPE OF CONSTRUCTION.

R/W PHASE PLANS



PROJECT MANAGER: EWCDOT - Khattab, Shamout, P.E. (703) 792-7193
 SURVEYED BY, DATE: RDA - Ryan Dreella, LS (703) 334-9302, July 3, 2017
 DESIGN BY: RDA - Mack, A. Gunn, P.E. (703) 334-9288
 SUBSURFACE UTILITY BY, DATE: Accumark (703) 378-0100, August 1, 2017

Roadside Development

REVISED	STATE	ROUTE	STATE	VDOT PROJECT NO.	SHEET NO.
	VA.	638		0638-076-209 PE101 CS01 RW201	2D

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

MIX	LBS./ACRES	DESCRIPTION
1	▲	* 100% CERTIFIED FINE FESCUE
2	▲	100% CERTIFIED TALL FESCUE
3	▲ 100 100	50% CERTIFIED TALL FESCUE * 50% CERTIFIED FINE FESCUE
4	▲ 60 40	50% CERTIFIED TALL FESUE 50% CERTIFIED KENTUCKY BLUEGRASS
5	▲	100% BERMUDAGRASS
C 1, 2 & 3	▲	CUSTOM MIX
T1	▲ 100 100	50% CERTIFIED TALL FESCUE 50% BARLEY, WINTER RYE OR WINTER WHEAT
T2	▲ 50 50	FOXTAIL MILLET 50% CERTIFIED TALL FESCUE

TYPE	LBS./ACRES	DESCRIPTION
A	▲ 2	100% LOVEGRASS
B	▲ 25	100% BARLEY, WINTER RYE OR WINTER WHEAT
C	▲ 10	100% FOXTAIL MILLET
D	▲ 25	100% ANNUAL RYEGRASS
E	▲	100% BLUE GRAMA
F	▲ 25	100% ALFALFA
G	▲	100% WHITE CLOVER
H	▲	* * 100% CROWN VETCH (LEGUME)
I	▲	* * 100% SERICEA LESPEDEZA (LEGUME)
J	▲	* * 100% BIRDSFOOT TREFOIL (LEGUME)
K	▲	POLLINATOR SEED MIX

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	
	4/1 - 6/1		6/1 - 9/15		9/15 - 11/15		11/15 - 4/1	
PROJECT NUMBERS AND/OR LOCATION	3D T2	3D T2	3C T2	3C T2	3D T1	3D T1	3B T1	3B T1
* SPECIFIED TYPE(S) OF FINE FESCUE	RED	RED	RED	RED	RED	RED	RED	RED

NOTES:
 APPROXIMATELY 5.24 ACRES WILL BE DISTURBED ON THIS PROJECT WILL BE DISTURBED AND WILL REQUIRE THE ESTABLISHMENT OF GRASSES AND/OR LEGUMES.

NOTES FOR FIELD USE ONLY
 OVERSEEDING RATE SHALL BE 100 PERCENT OF THE SEED MIXTURE SUPPLIED WITHOUT FERTILIZER. THE ENGINEER WILL REQUIRE THE CONTRACTOR TO PERFORM SUPPLEMENTAL SEEDING WHEN LESS THAN 75 PERCENT UNIFORM STAND OF THE PERMANENT GRASS SPECIFIED IN THE MIXTURE IS OBTAINED. (ANNUAL SPECIES SUCH AS RYE AND MILLET ARE TEMPORARY VARIETIES AND REQUIRE SUPPLEMENTAL SEEDING.)

NOTES APPLY TO SCHEDULE
 LEGUME SEED MIXES (BIRDSFOOT TREFOIL, CROWN VETCH, AND SERICEA LESPEDEZA) AND WEEPING LOVEGRASS SHALL NOT BE USED ON SHOULDERS AND OTHER LOCATIONS FLATTER THAN 3:1 SLOPE.

LEGUME SEED SHALL BE INOCULATED WITH THE APPROPRIATE STRAIN AND RATE OF BACTERIA. FOR HYDROSEEDING, USE FIVE TIMES THE DRY SEEDING RATE OF INOCULATE. A TEMPORARY MIX OR EROSION CONTROL MULCH, AS DIRECTED BY THE ENGINEER, IS TO BE USED ONLY ON AREA THAT ARE TO BE REGRADED OR LATER DISTURBED, IF LEFT DORMANT FOR MORE THAN 15 DAYS.

EROSION CONTROL MULCH, AS LISTED ON THE VDOT APPROVED PRODUCTS LIST, SHALL BE APPLIED IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS.

EROSION CONTROL MULCH SHALL PROVIDE 100 PERCENT COVERAGE OF ALL DENUDED AREAS.

SPRING & SUMMER AND FALL & WINTER DEFINED FOR THE PURPOSE OF DETERMINING WHETHER HULLED OR UNHULLED BERMUDA GRASS AND SERICEA LESPEDEZA SEED IS REQUIRED.

**SPRING AND SUMMER 4/1 9/15 USE HULLED SEED
 FALL & WINTER 9/15 4/1 USE UNHULLED SEED**

TYPE I MULCH (STRAW) TO BE USED ON NEWLY SEEDED AREAS ADJACENT TO ALL WATERWAYS, WETLANDS, SWAMPS, OR ANY AREA IN WHICH DRAINAGE FLOWS TOWARD AREAS UNDER THE JURISDICTION OF THE ENVIRONMENTAL REGULATORY AGENCIES.

TYPE I MULCH SHALL BE TACKED WITH FIBER MULCH AT THE RATE OF 750 LBS. PER ACRE AND/OR MULCH TACKIFIER.

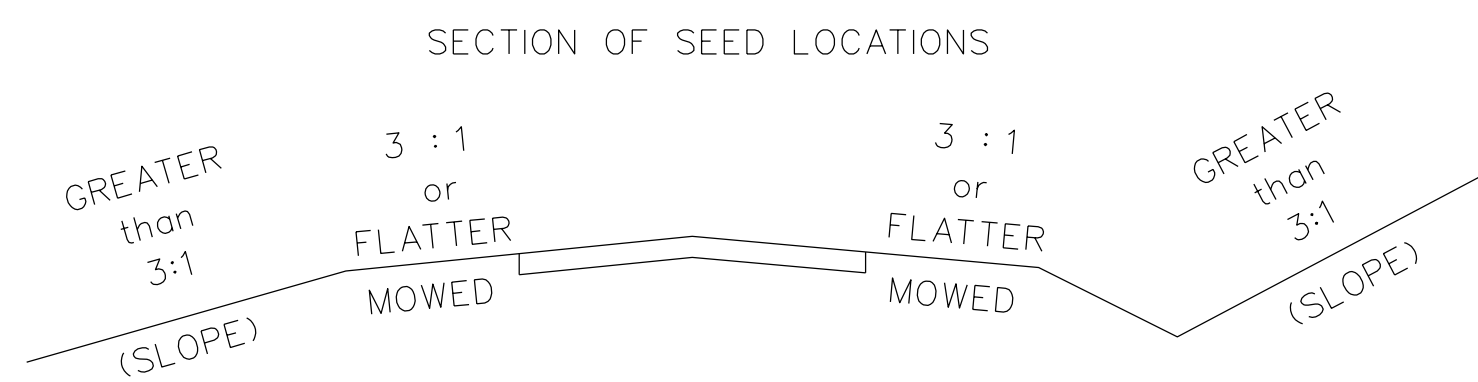
TYPE II MULCH (FIBER MULCH) MAY BE SUBSTITUTED FOR TYPE I MULCH AT THE RECOMMENDATION OF THE DISTRICT ROADSIDE MANAGER.

TYPE II MULCH SHALL BE APPLIED AT A RATE OF 1500 LBS. (NET DRY WEIGHT) PER ACRE TO PROVIDE A MINIMUM OF 90 PERCENT COVERAGE, AND SHALL BE APPLIED IN A SEPARATE APPLICATION.

ALL TOPSOIL IS TO BE FREE OF HARD LUMPS, CLODS, ROCKS AND FOREIGN DEBRIS AND IS TO BE HAND RAKED TO TIE INTO EXISTING LAWNS.

ALL SEED MUST BE IN CONFORMANCE WITH VDOT SEED SPECIFICATIONS FOR GRASSES & LEGUME AND BE PROVIDED AT THE PROJECT SITE IN BAGS NOT OPENED AND LABELED FOR USE ON VDOT PROJECTS WITH A GREEN TAG CERTIFYING INSPECTION BY THE VIRGINIA CROP IMPROVEMENT ASSOCIATION.

- * FINE FESCUES INCLUDE CHEWINGS, CREEPING RED, HARD, SHEEP. SEE SEEDING SCHEDULE FOR TYPE(S) SPECIFIED FOR THIS PROJECT.
- ▲ ALL RATES TO BE SPECIFIED BY THE DISTRICT ROADSIDE MANAGER
- * * THESE ADDITIVES ARE NOT TO BE USED IN AREAS THAT WILL BE MOWED. (SLOPES 3:1 OR FLATTER)



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			HECP (TYPE 1) S. Y.	HECP (TYPE 2) S. Y.	HECP (TYPE 3) S. Y.	HECP (TYPE 4) S. Y.
								N NITROGEN LBS.	P PHOSPHORUS LBS.	K POTASSIUM LBS.				
	1474	1180			1048	5.24 ACRE CLASS A 4"	23.6	501	688	344	2118	605	303	

⊗ 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.

VDOT PROJECT NO. 0638-076-209 PWCDOT PROJECT NO. SPR2018-00271	SHEET NO. 2D
---	-----------------

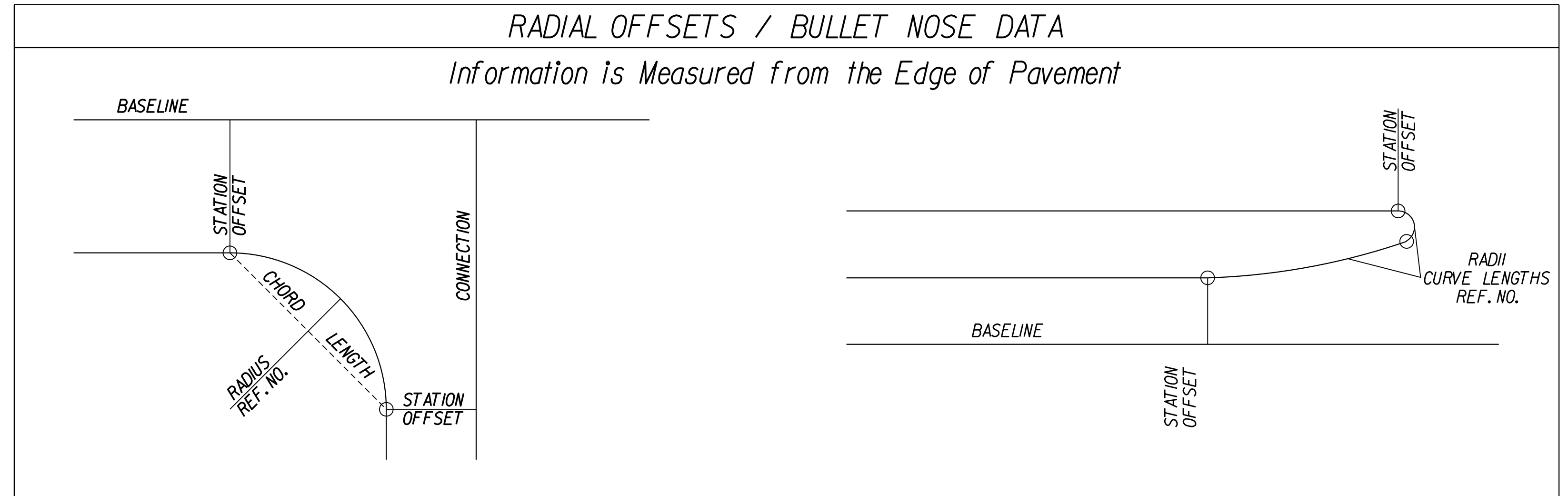
THESE PLANS ARE UNFINISHED AND UNAPPROVED AND ARE NOT TO BE USED FOR ANY TYPE OF CONSTRUCTION.

R/W PHASE PLANS

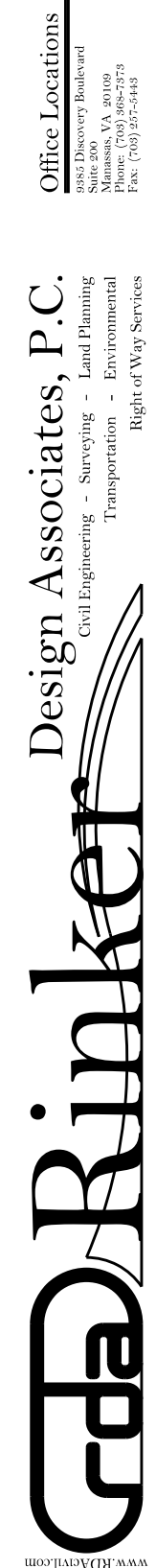
PROJECT MANAGER PWCDOT: Khattab, Shammout, P.E. : (703) 792-7193
SURVEYED BY, DATE RDA: Ryan Dreehl, LS (703) 334-9302, July 3, 2017
DESIGN BY RDA: Mack, A. Gunn, P.E. (703) 334-9288
SUBSURFACE UTILITY BY, DATE Accurack (703) 378-0100, August 1, 2017

Radial Offsets/Bullet Nose Data Summary

REVISED	STATE	STATE		SHEET NO.
	VA.	ROUTE 638	VDOT PROJECT NO. 0638-076-209 PE/01 CS/01 RW/201	
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 (Roadway)				



LOCATION (REF. NO.) SHEET - ITEM	BASELINE		CONNECTION		RADIUS LENGTH	CHORD LENGTH	CURVE LENGTH
	STATION	OFFSET	STATION	OFFSET	FEET	FEET	FEET
3-1	506+09.51	68.31 (LT)	13+29.70	33.00 (LT)	52.00	44.84	46.36
3-2	507+40.60	66.01 (LT)	13+09.87	38.00 (RT)	45.82	58.36	63.26
3-3	13+95.52	33.00 (LT)	10+62.29	24.56 (LT)	13.00	25.82	37.74
3-4	10+58.29	19.78 (LT)	10+69.14	29.84 (LT)	8.00	14.80	18.89
3-5	14+57.88	33.00 (LT)	10+48.14	18.39 (RT)	25.00	29.19	31.16
3-6	10+60.66	8.00 (RT)	11+16.38	8.00 (RT)	37.00	42.94	45.81
3-7	11+21.19	8.00 (RT)	11+25.85	14.76 (RT)	4.99	8.21	9.64
3-8	11+21.19	8.00 (LT)	11+25.97	14.27 (LT)	4.96	7.89	9.12
3-9	16+98.89	33.00 (RT)	10+77.59	8.00 (LT)	3.00	5.51	6.98
3-10	14+58.24	33.00 (LT)	10+58.29	19.78 (LT)	52.00	49.48	51.57
3-11	15+79.29	45.00 (LT)	11+25.49	28.50 (RT)	37.00	59.44	69.02
3-12	13+09.87	8.00 (RT)	13+09.87	8.00 (RT)	2.00	4.00	6.28
3-13	13+76.28	36.59 (RT)	10+74.86	15.06 (RT)	24.00	40.66	48.50
3-14	14+71.84	33.00 (RT)	10+62.60	11.62 (LT)	27.00	36.38	39.91
3-15	16+41.33	33.00 (RT)	10+60.66	8.00 (RT)	47.10	27.51	27.91
3-16	10+77.59	8.00 (LT)	11+16.38	8.00 (LT)	53.00	44.29	45.69
4-1	20+11.05	30.50 (RT)	10+70.14	8.00 (RT)	3.00	5.39	6.70
4-2	20+56.59	30.50 (RT)	10+55.69	8.00 (LT)	40.66	23.21	23.53
4-3	20+92.12	30.50 (LT)	10+72.85	15.00 (LT)	42.00	59.76	66.48
4-4	22+07.88	30.50 (LT)	10+72.85	15.00 (LT)	42.00	59.76	66.48
4-5	23+12.97	30.50 (LT)	10+43.93	16.87 (LT)	27.00	26.92	28.18
4-6	23+92.81	30.50 (LT)	10+54.43	12.00 (RT)	27.00	36.01	39.42
4-7	10+70.14	8.00 (RT)	11+04.14	8.00 (RT)	53.00	39.09	40.04
4-8	10+55.69	8.00 (LT)	11+04.14	8.00 (LT)	37.00	37.93	39.83
5-1	27+24.88	34.50 (LT)	10+70.89	17.02 (LT)	260.00	132.32	133.79
5-2	10+67.32	23.97 (RT)	10+79.89	18.49 (LT)	10.00	16.87	20.07
5-3	28+74.79	11.34 (LT)	28+69.89	11.50 (LT)	75.00	4.90	4.90
5-4	28+60.20	3.50 (LT)	28+75.35	5.44 (LT)	60.00	15.27	15.31
5-5	28+75.35	5.44 (LT)	28+74.79	11.34 (LT)	3.00	5.92	8.46
5-6	28+83.70	41.50 (RT)	10+88.49	39.05 (RT)	27.28	50.62	48.99
5-7	30+25.51	45.50 (LT)	10+85.96	48.14 (RT)	52.00	64.87	70.04
5-8	29+90.77	1.48 (RT)	29+91.30	7.40 (RT)	3.00	5.94	8.58
5-9	29+90.77	1.48 (RT)	30+07.90	0.50 (LT)	75.00	17.24	17.28
5-10	29+91.30	7.40 (RT)	29+95.20	7.50 (RT)	75.00	3.90	3.90
5-11	30+18.84	30.50 (RT)	10+82.61	25.42 (LT)	52.00	73.59	81.76
8-1	49+01.51	30.50 (LT)	10+87.73	38.02 (LT)	52.00	73.37	84.30
8-2	48+99.73	3.50 (LT)	48+99.73	7.50 (RT)	2.00	4.00	6.28
8-3	49+24.56	41.50 (RT)	10+83.64	24.26 (RT)	45.00	62.28	68.78
8-4	50+24.88	46.79 (RT)	10+73.27	23.82 (LT)	40.00	26.56	27.08
8-5	50+68.18	3.50 (RT)	50+68.18	7.50 (RT)	2.00	4.00	6.28
8-6	52+50.01	7.50 (RT)	54+27.39	14.04 (RT)	652.72	174.11	174.62
8-7	50+24.88	46.79 (RT)	50+50.87	36.13 (RT)	27.00	28.09	29.54
8-8	50+50.87	36.13 (RT)	50+68.18	37.50 (RT)	110.07	17.37	17.39
9-1	52+50.19	3.50 (RT)	54+27.75	2.05 (LT)	662.70	176.92	177.46



THESE PLANS ARE UNFINISHED AND UNAPPROVED AND ARE NOT TO BE USED FOR ANY TYPE OF CONSTRUCTION.

VDOT PROJECT NO. 0638-076-209 PWCDOT PROJECT NO. SPR2018-00271	SHEET NO. 2E
---	-----------------

R/W PHASE PLANS

PROJECT MANAGER PWCDOT: Khattab, Shammout, PE - (703) 792-7193
SURVEYED BY, DATE: RDA: Ryan, Debelin, LS (703) 334-9302, July 3, 2017
DESIGN BY: RDA: Mark A. Guoa, PE (703) 334-9288
SUBSURFACE UTILITY BY, DATE: Accumark (703) 328-0100, August 1, 2017

REVISED	STATE		STATE PROJECT		SHEET NO
	VA.	638	0638-076-209	C501	

CURB RETURN PROFILES

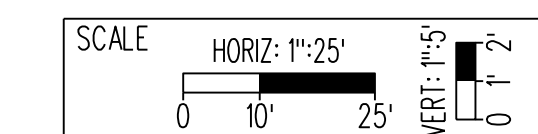
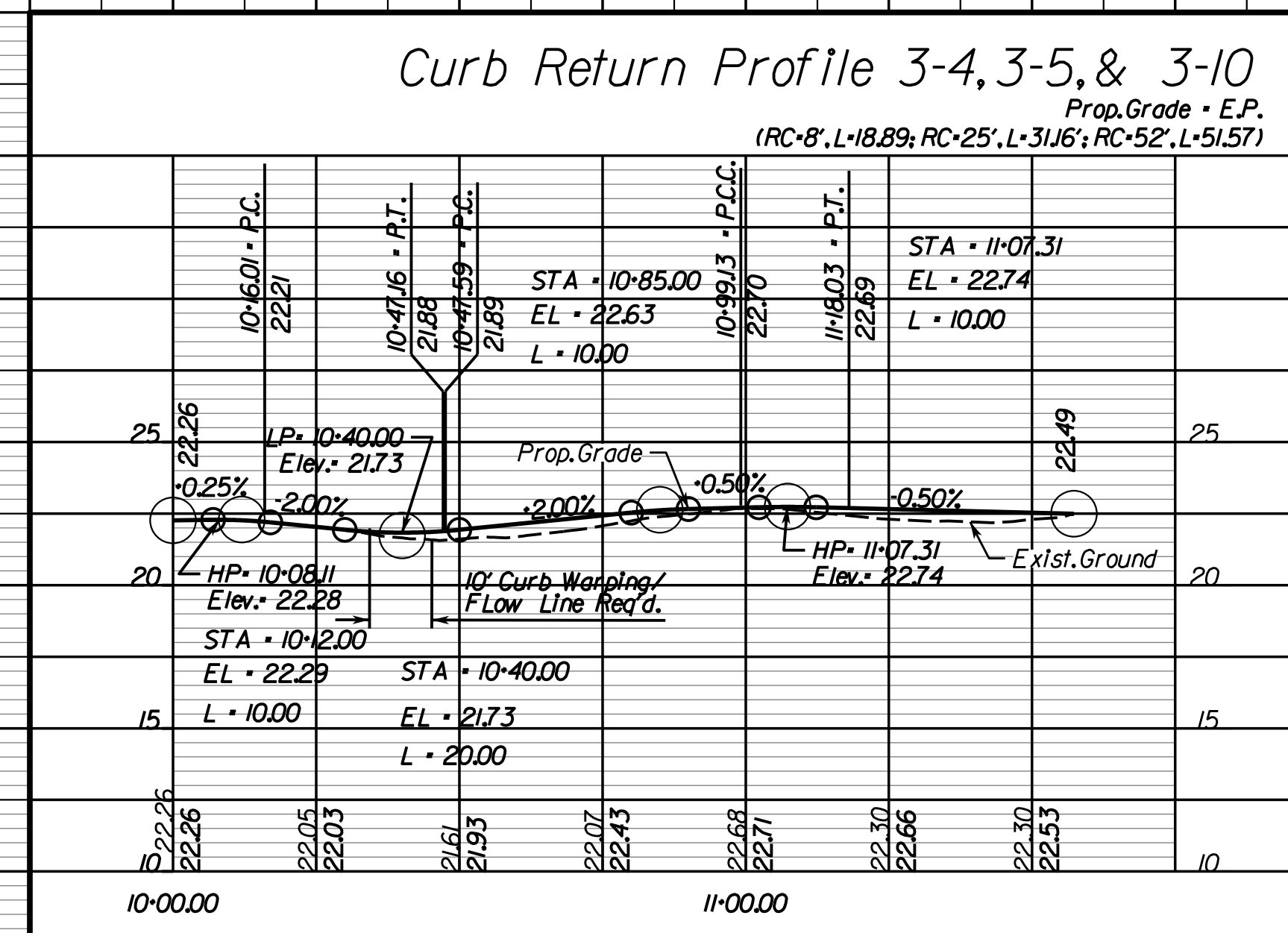
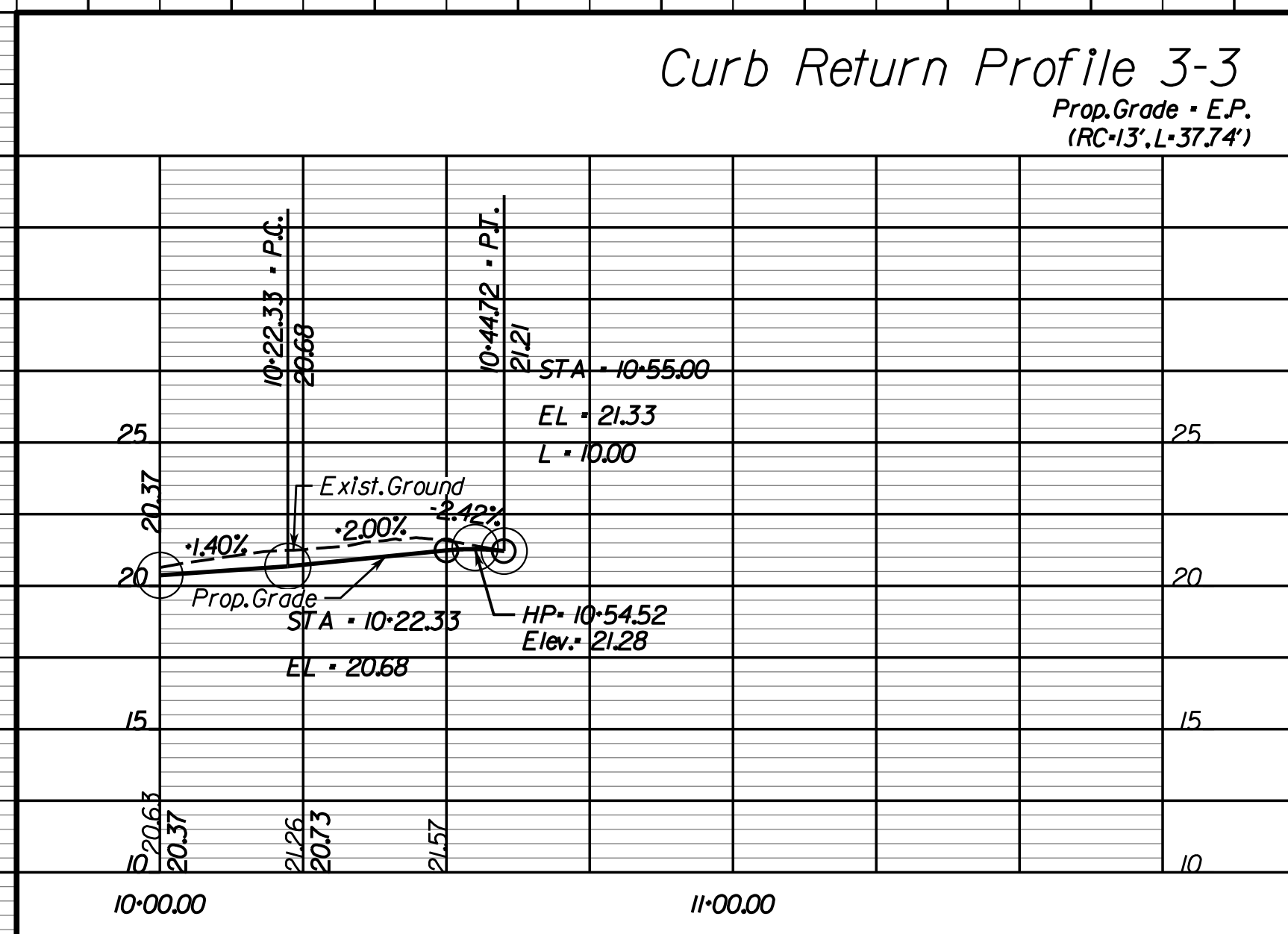
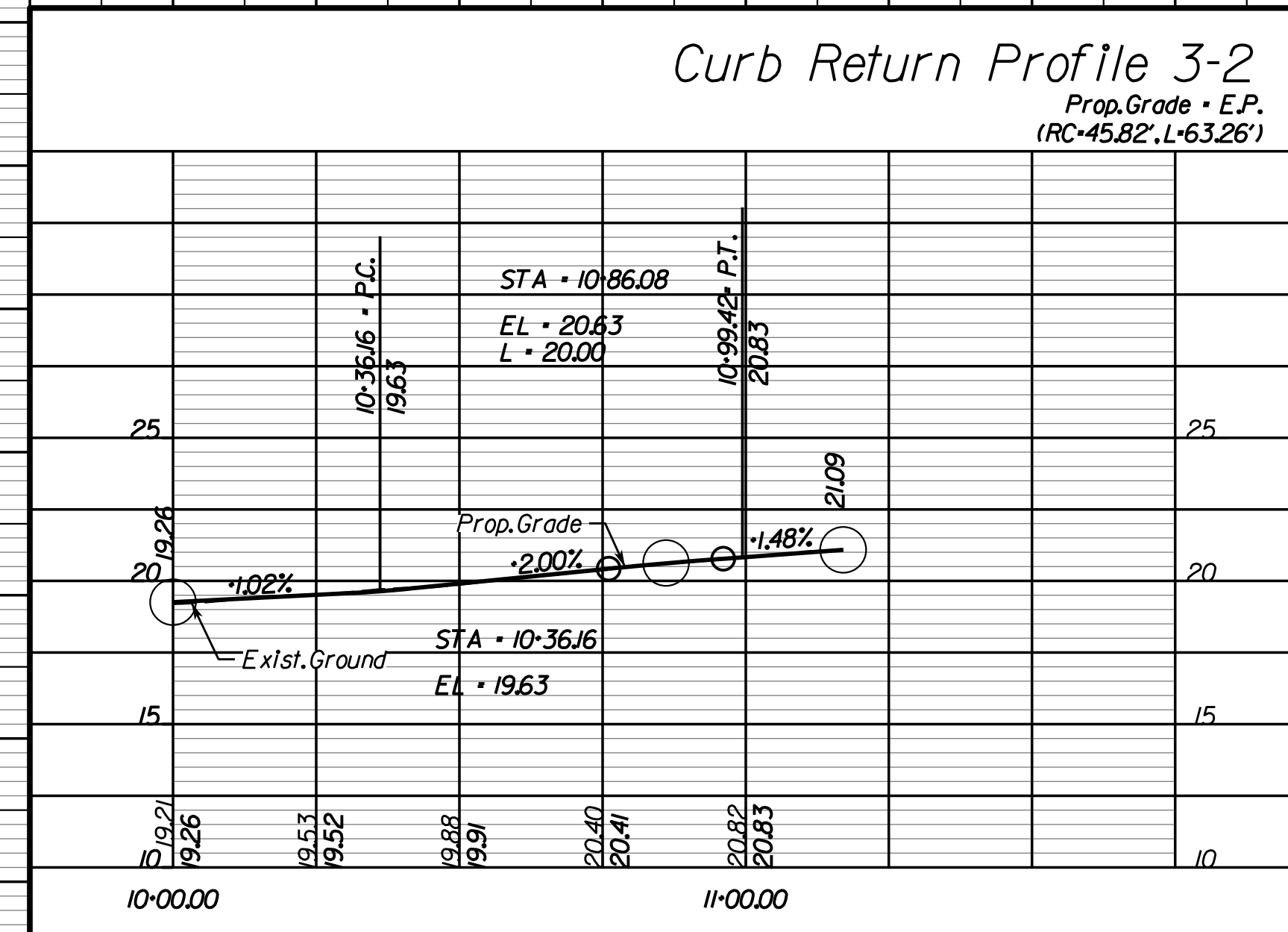
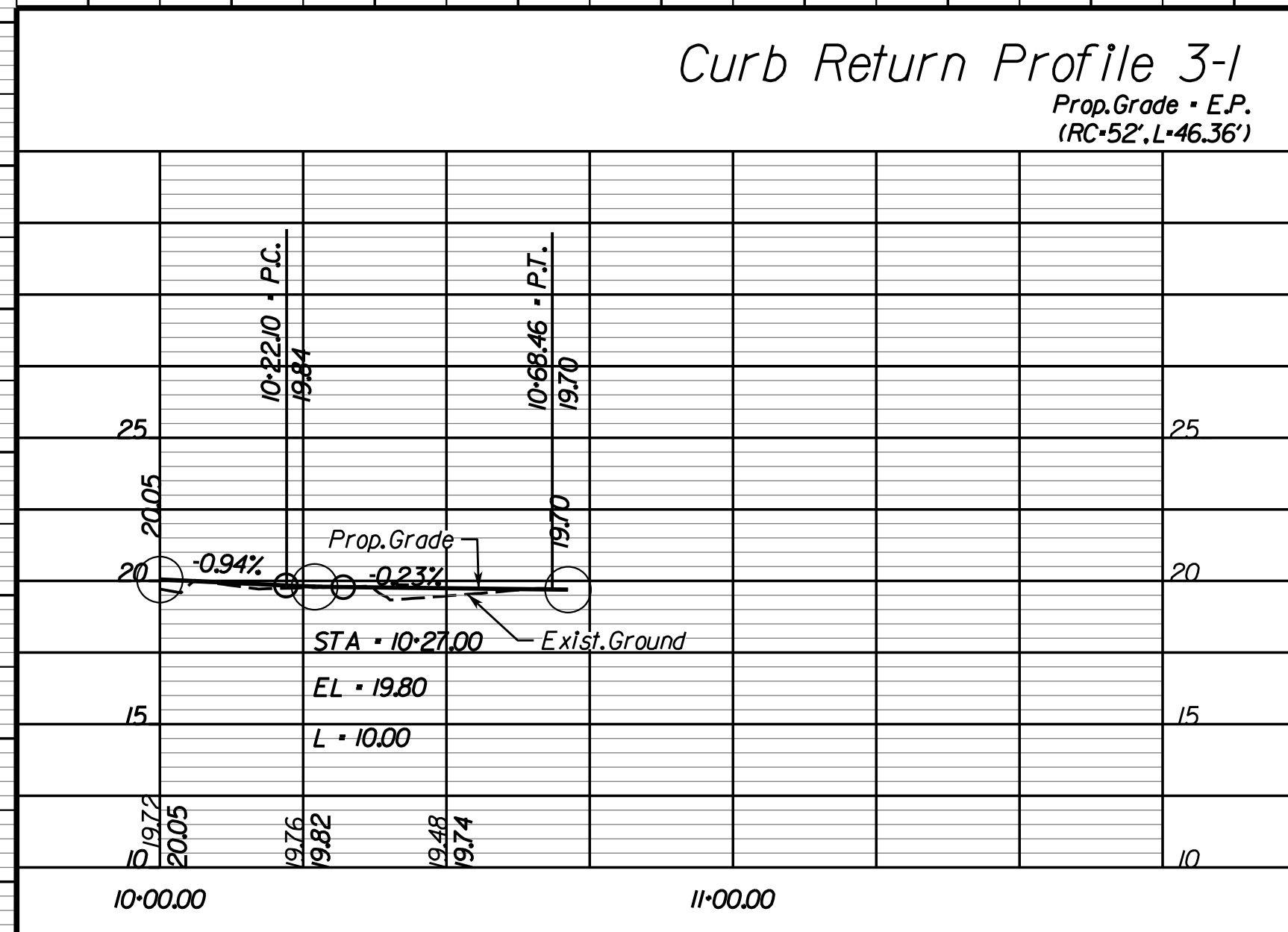
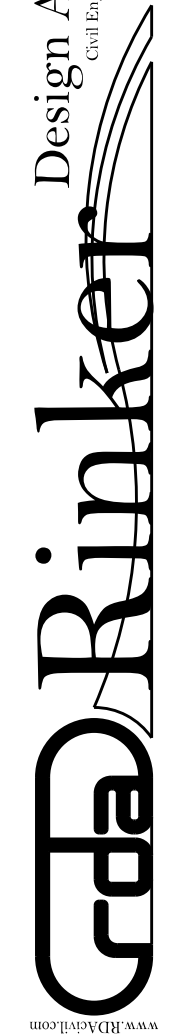
Rinker Design Assoc., P.C.
Fredericksburg, Virginia
(Hydraulics)

Rinker Design Assoc., P.C.
Fredericksburg, Virginia
(Roadway)

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

Office Locations
 10000 University Blvd
 Suite 1000
 Fredericksburg, VA 22401
 Phone: (703) 334-9288
 Fax: (703) 334-9289

www.Rinker.com



VDOT PROJECT NO. 0638-076-209
 PWCDOT PROJECT NO. SPR2018-00271
 SHEET NO. 2F

THESE PLANS ARE UNFINISHED AND UNAPPROVED AND ARE NOT TO BE USED FOR ANY TYPE OF CONSTRUCTION.

R.W. PHASE PLANS

PROJECT MANAGER PWCDOT: Khattab, Shammout, PE.: (703) 792-7193
 SURVEYED BY, DATE: RDA: Ryan, Deceltra, LS. (703) 334-9302, July 3, 2017
 DESIGN BY: RDA: Mark A. Guoa, PE. (703) 334-9288
 SUBSURFACE UTILITY BY, DATE: Accurmark (703) 378-0100, August 1, 2017

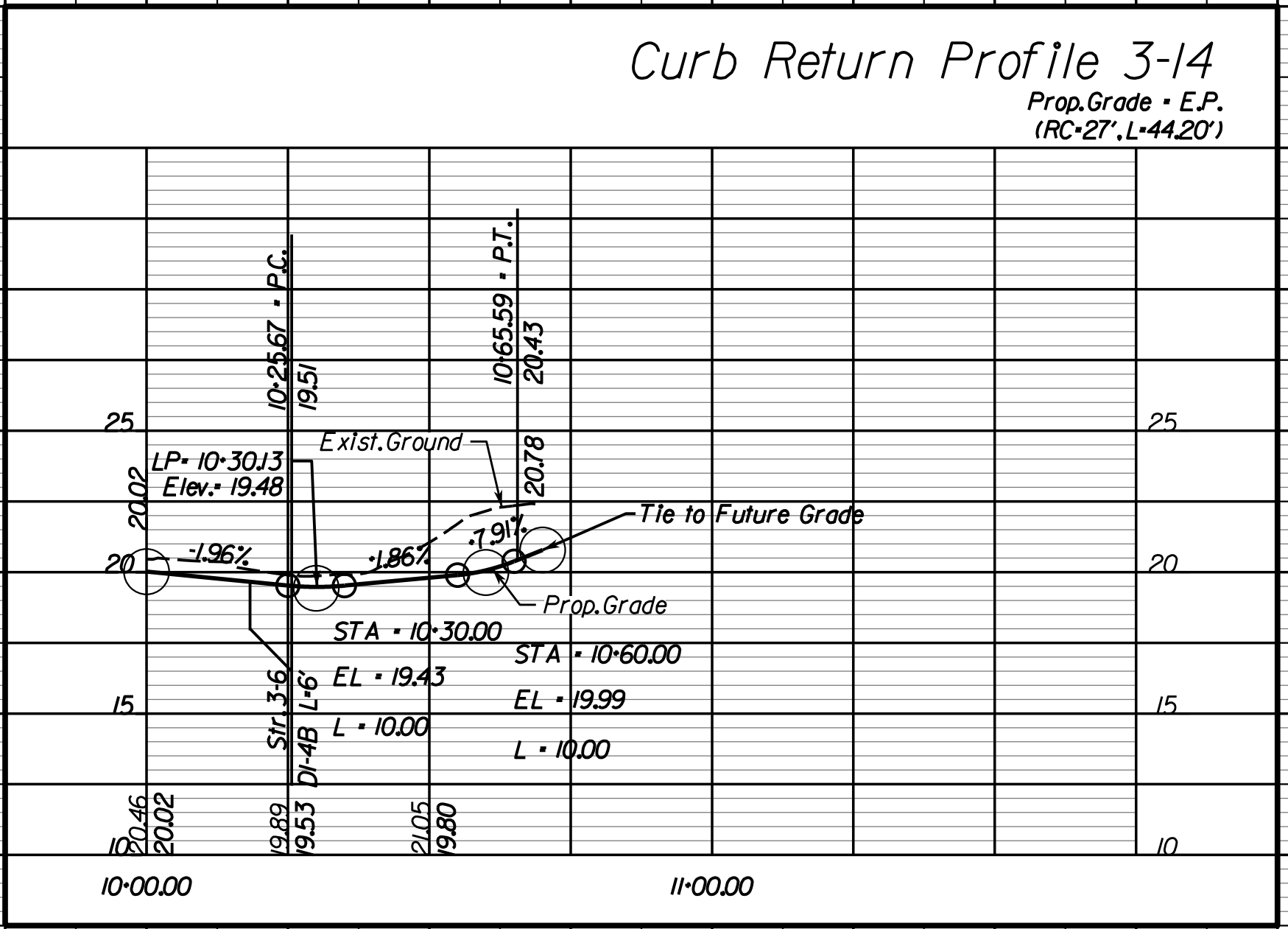
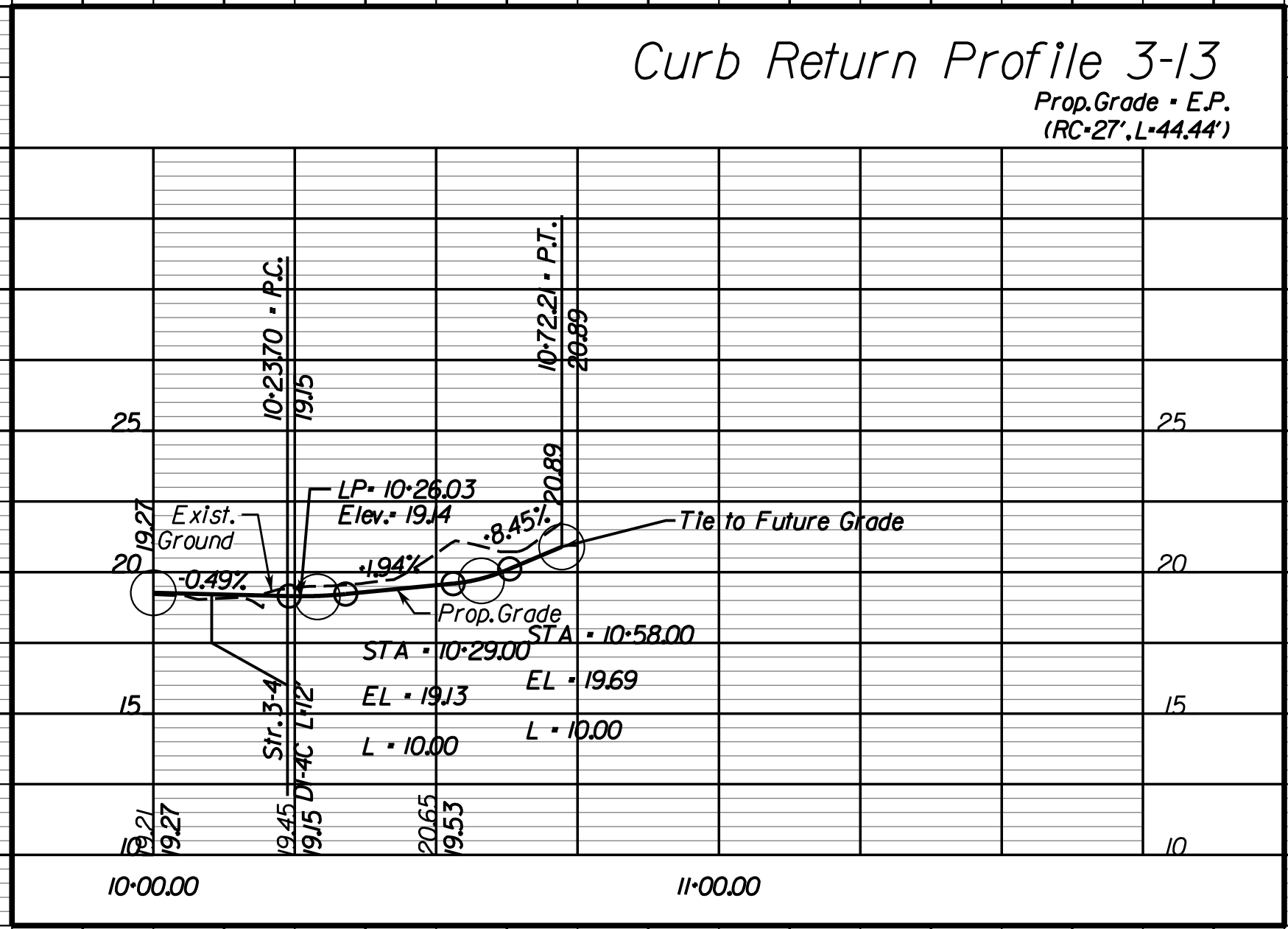
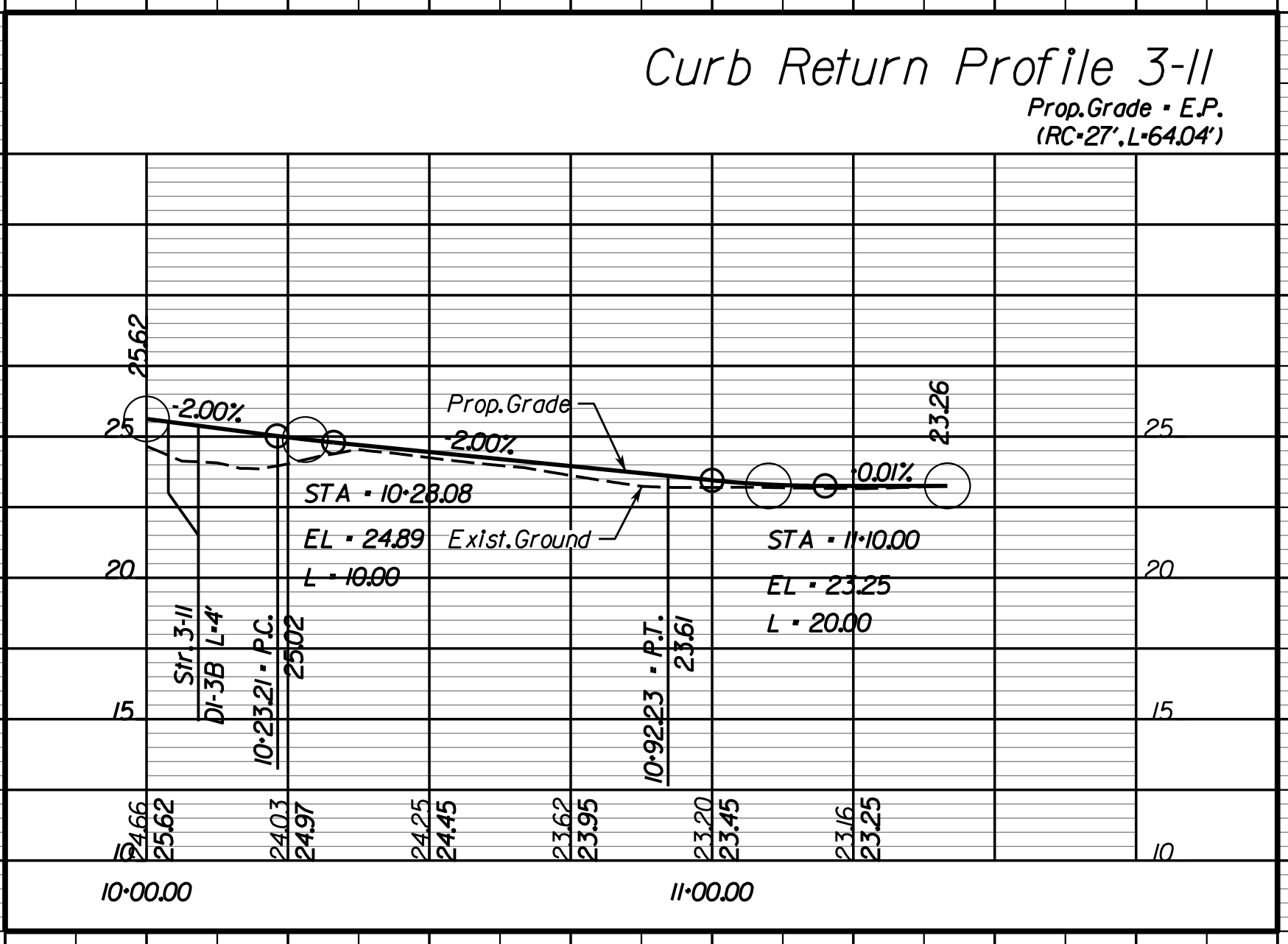
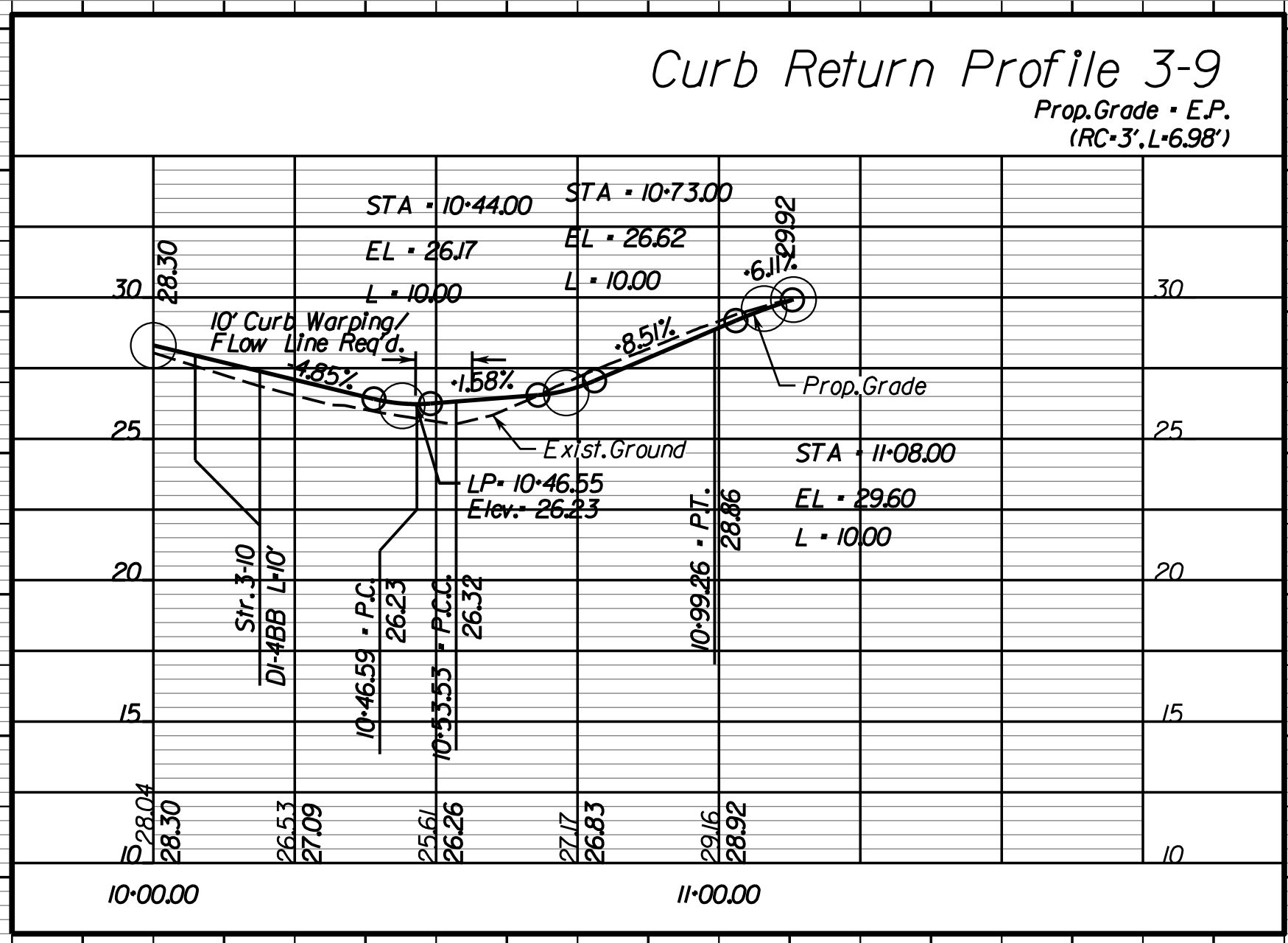
REVISED	STATE	ROUTE	STATE PROJECT	SHEET NO.
	VA.	638	0638-076-209 C501	2F(1)

CURB RETURN PROFILES

Rinker Design Assoc., P.C.
 Fredericksburg, Virginia
 (Hydraulics)

Rinker Design Assoc., P.C.
 Fredericksburg, Virginia
 (Roadway)

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 Associates, P.C.
 Civil Engineers
 Surveyors
 Transportation - Environmental
 Right of Way Services
 10000 Lakeside Blvd.
 Fredericksburg, VA 22409
 Phone: (703) 334-9288
 Fax: (703) 334-9289
 www.rinker.com

5/2/2019

SCALE: HORIZ: 1"=25' VERT: 1"=5'

VDOT PROJECT NO. 0638-076-209
 PWCDOT PROJECT NO. SPR2018-00271

SHEET NO. 2F(1)

THESE PLANS ARE UNFINISHED AND UNAPPROVED AND ARE NOT TO BE USED FOR ANY TYPE OF CONSTRUCTION.

R.W. PHASE PLANS

PROJECT MANAGER PWCDOT: Khattab, Shammout, PE - (703) 792-7193
SURVEYED BY, DATE RDA: Ryan, DcealIn, LS (703) 334-9302, July 3, 2017
DESIGN BY RDA: Mark A. Guoa, PE - (703) 334-9288
SUBSURFACE UTILITY BY, DATE Accurmark (703) 328-0100, August 1, 2017

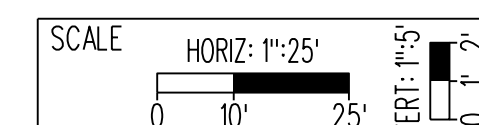
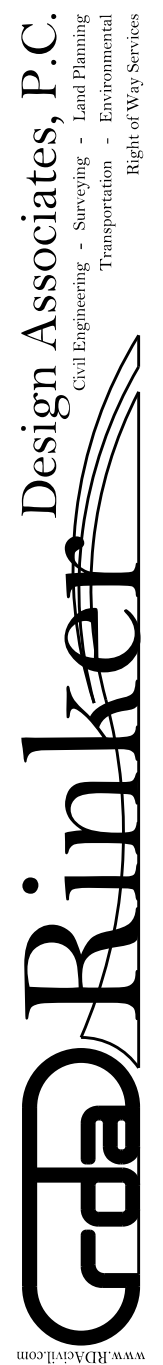
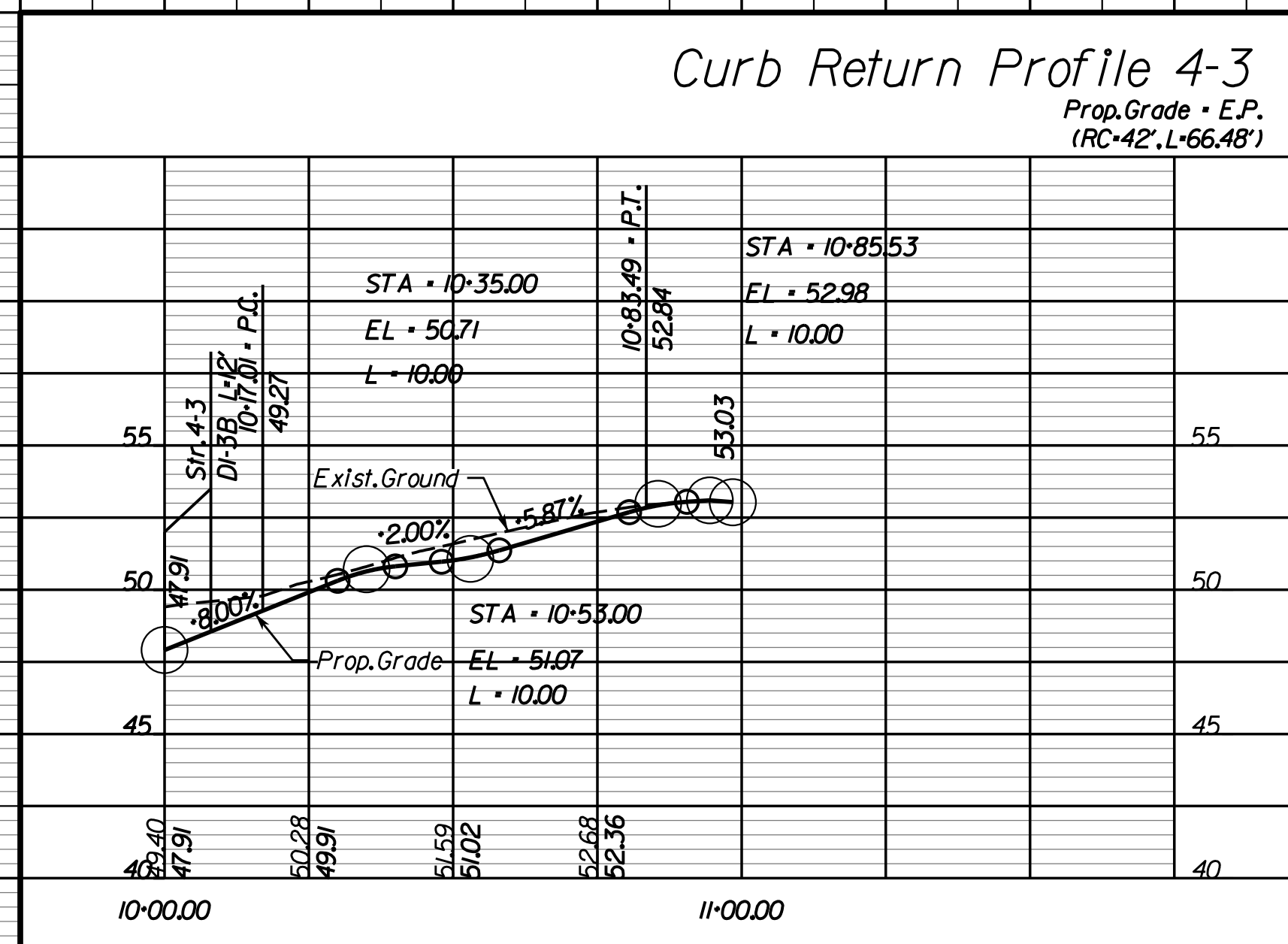
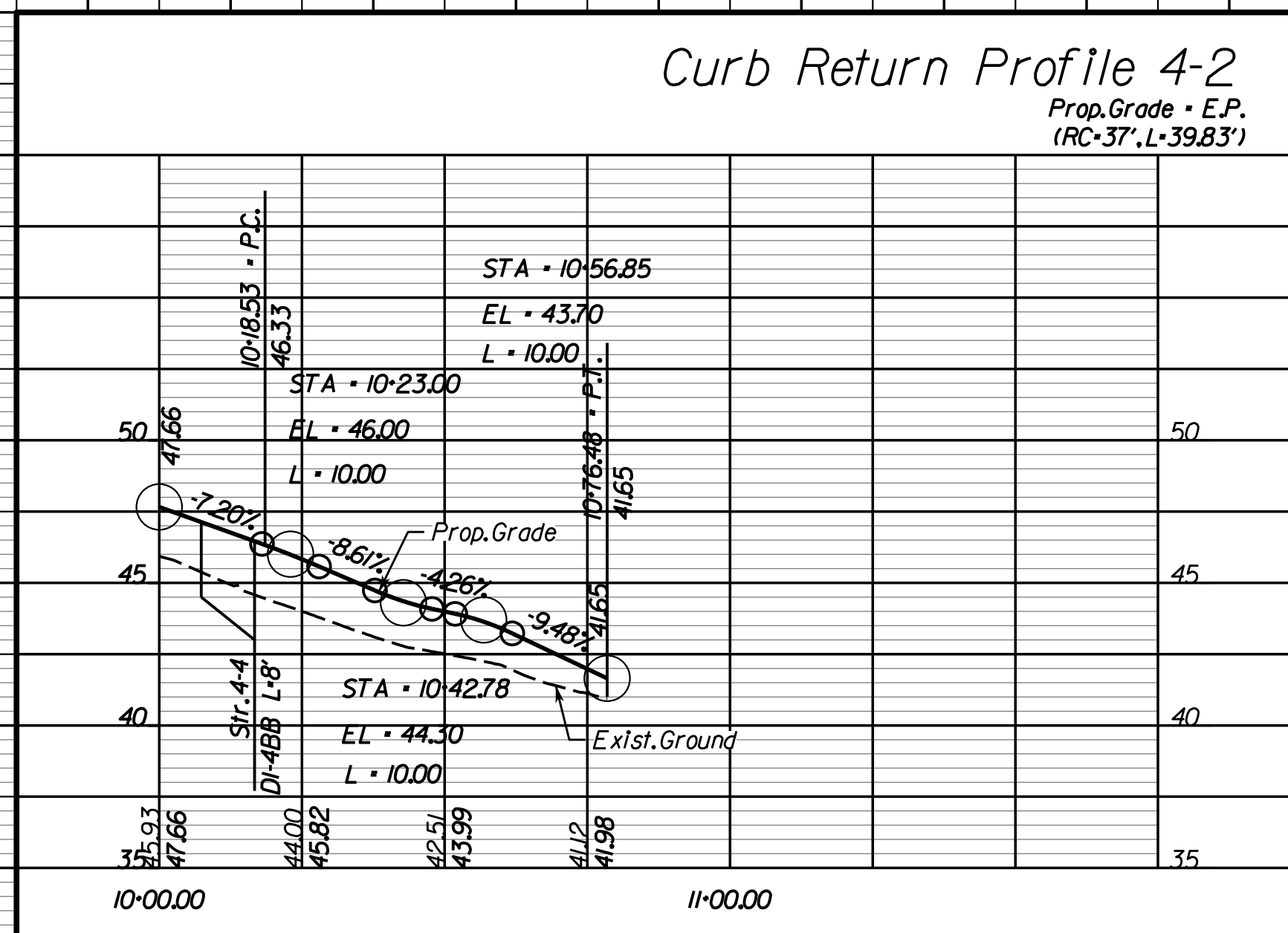
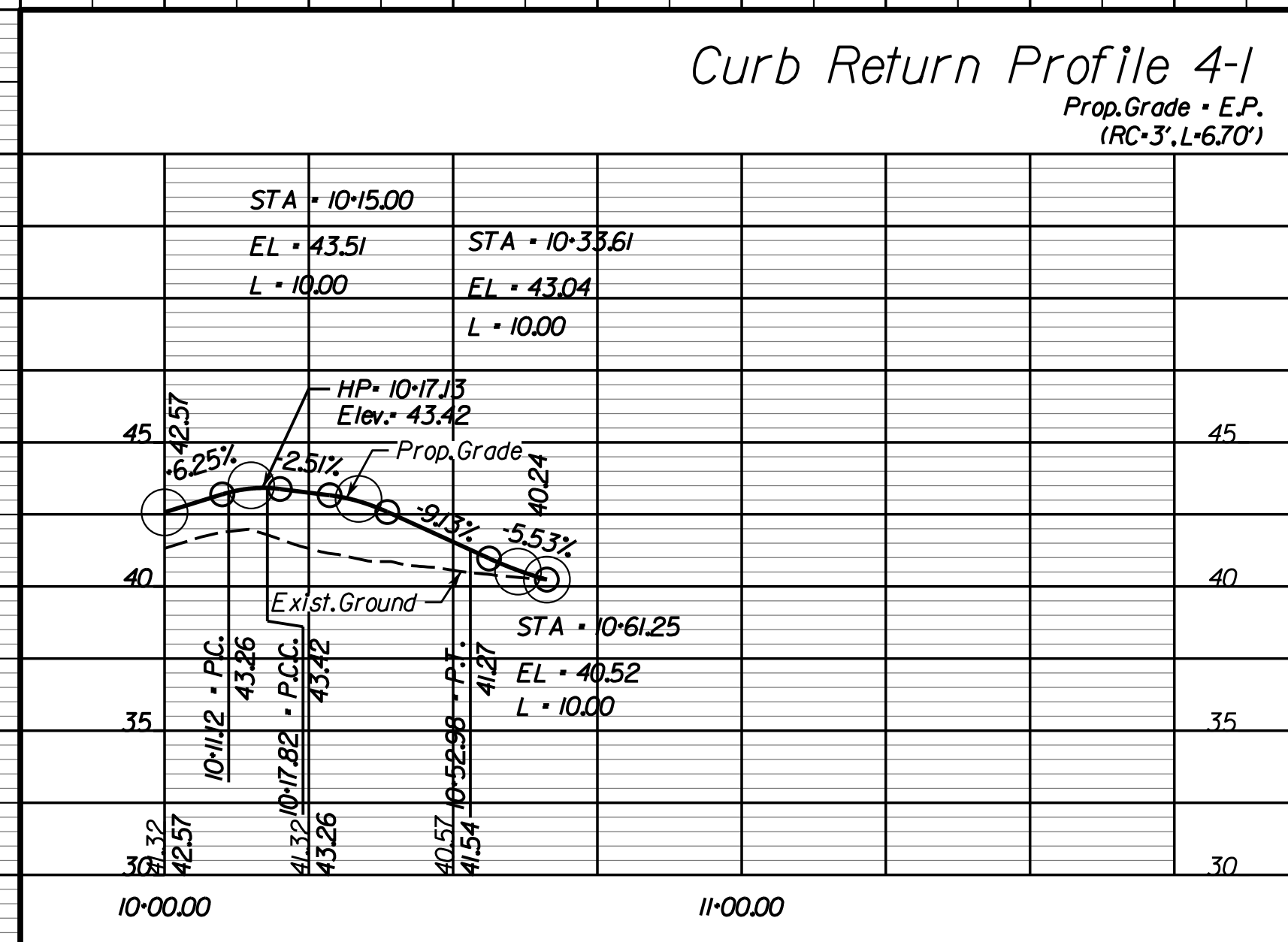
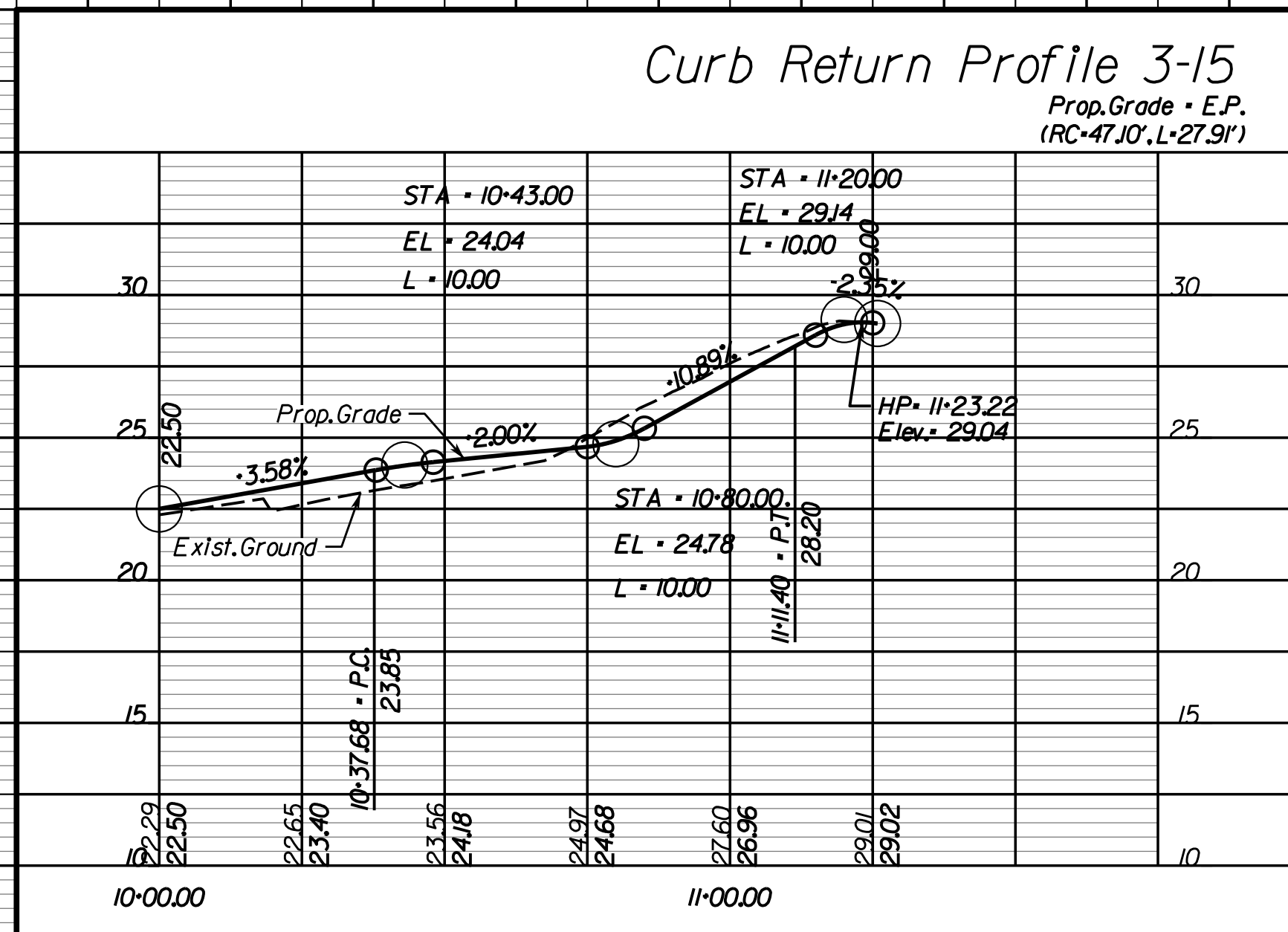
REVISED	STATE	ROUTE	STATE PROJECT	SHEET NO
	VA.	638	0638-076-209 C501	2F(2)

CURB RETURN PROFILES

Rinker Design Assoc., P.C.
Fredericksburg, Virginia
(Hydraulics)

Rinker Design Assoc., P.C.
Fredericksburg, Virginia
(Roadway)

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



VDOT PROJECT NO. 0638-076-209
PWCDOT PROJECT NO. SPR2018-00271

THESE PLANS ARE UNFINISHED AND UNAPPROVED AND ARE NOT TO BE USED FOR ANY TYPE OF CONSTRUCTION.

R.W. PHASE PLANS

PROJECT MANAGER PWCDOT: Khattab, Shammout, PE - (703) 792-7193
 SURVEYED BY, DATE: RDA: Ryan, Dceblin, LS. (703) 334-9302, July 3, 2017
 DESIGN BY: RDA: Mark A. Guoa, PE - (703) 334-9288
 SUBSURFACE UTILITY BY, DATE: Accumark (703) 328-0100, August 1, 2017

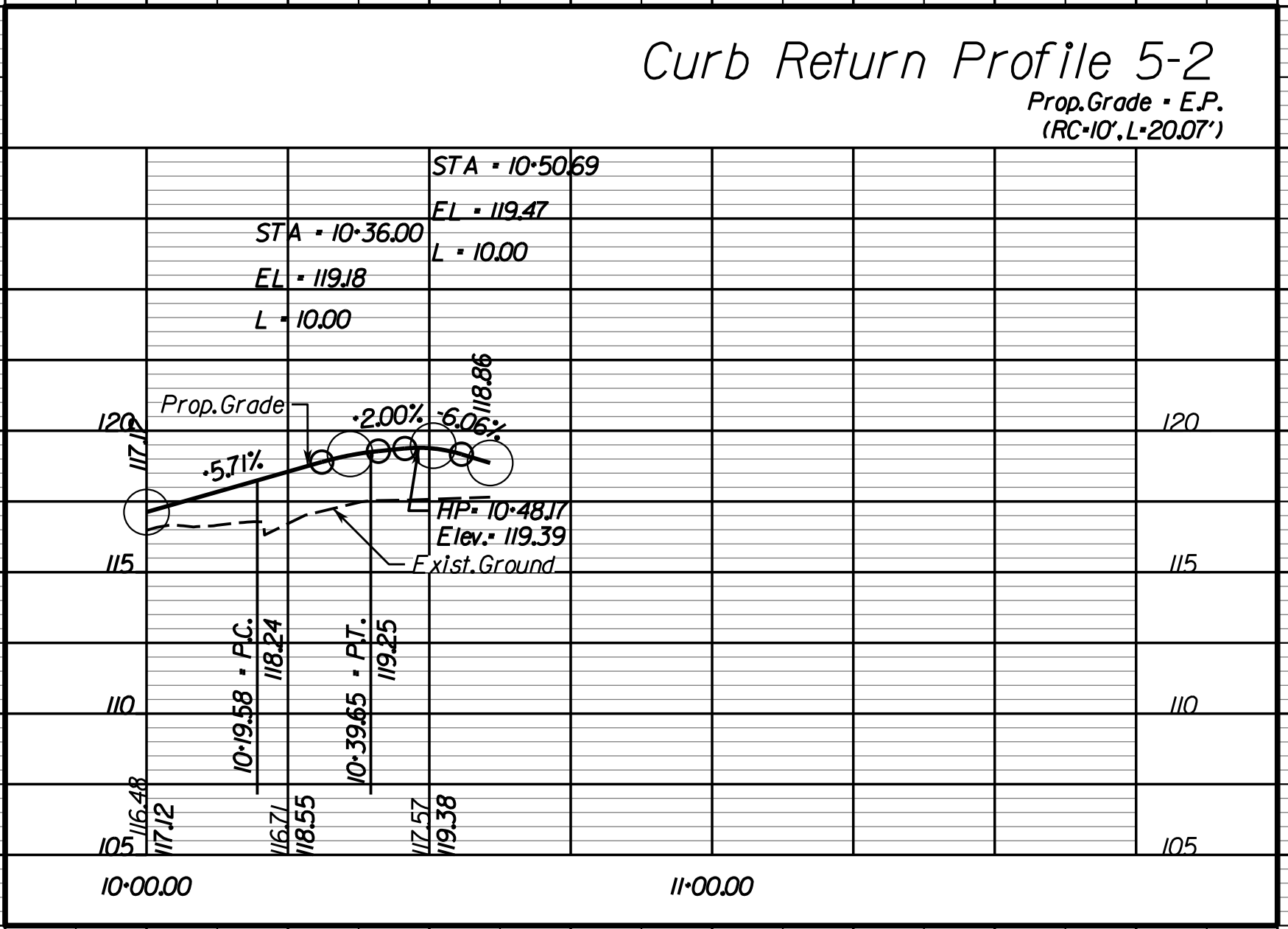
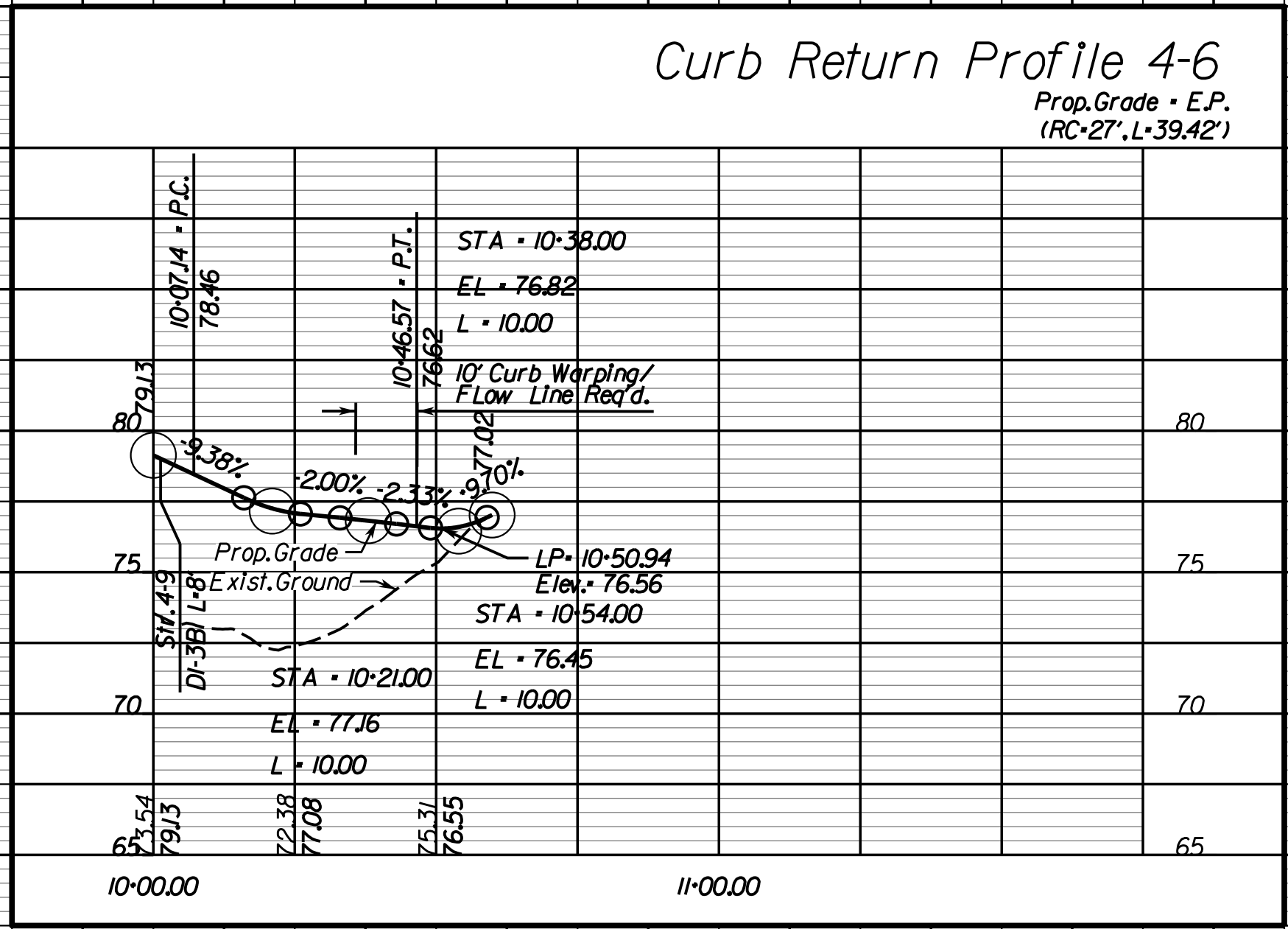
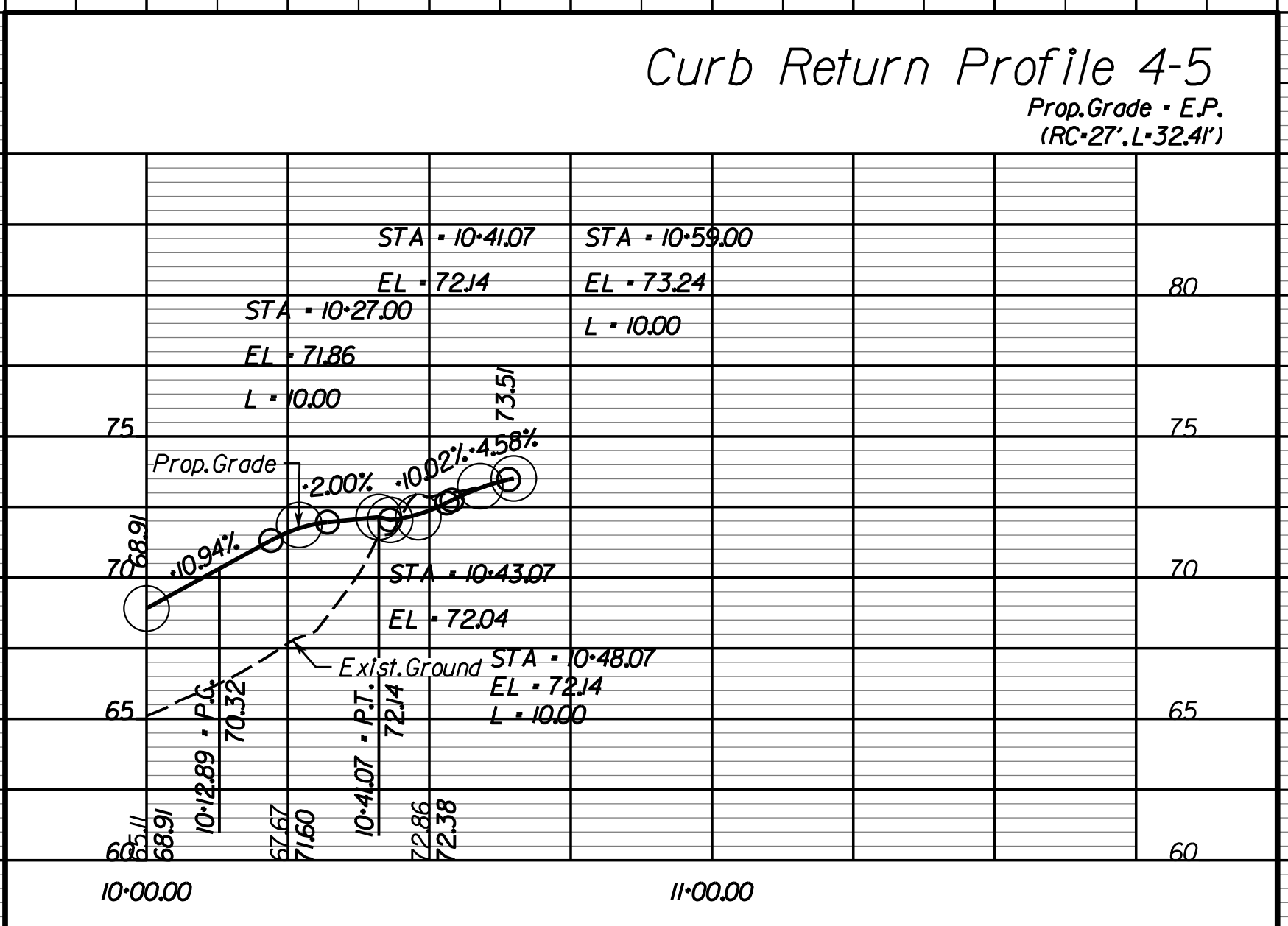
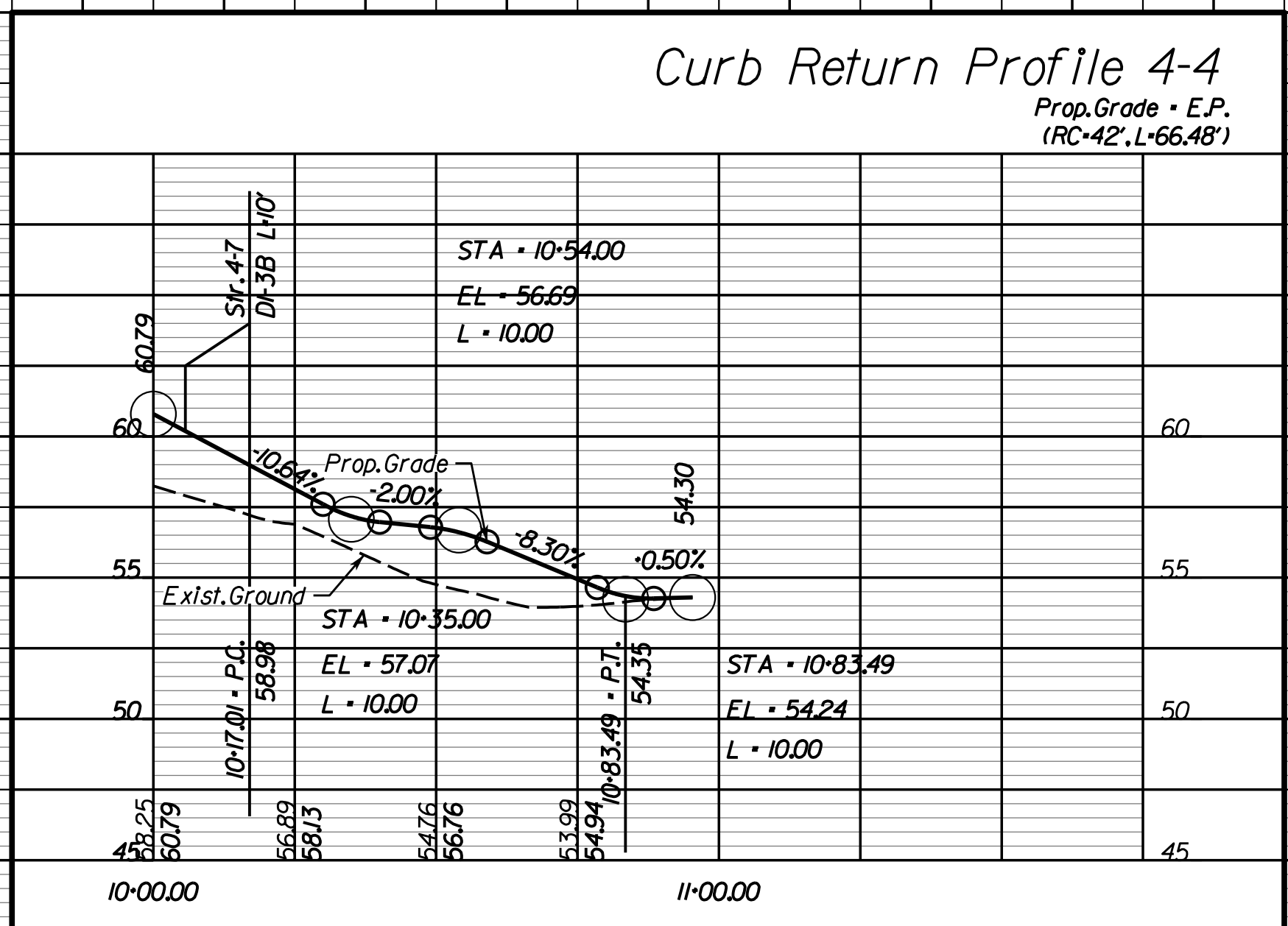
REVISED	STATE	ROUTE	STATE PROJECT	SHEET NO
	VA.	638	0638-076-209 C501	2F(3)

CURB RETURN PROFILES

Rinker Design Assoc., P.C.
 Fredericksburg, Virginia
 (Hydraulics)

Rinker Design Assoc., P.C.
 Fredericksburg, Virginia
 (Roadway)

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 Associates, P.C.
 Civil Engineers
 Transportation - Environmental
 Right of Way Services
 10000 Rinker Blvd
 Fredericksburg, VA 22409
 Phone: (703) 334-9288
 Fax: (703) 334-9289
 www.rinker.com

5/2/2019

THESE PLANS ARE UNFINISHED AND UNAPPROVED AND ARE NOT TO BE USED FOR ANY TYPE OF CONSTRUCTION.

R.W. PHASE PLANS

PROJECT MANAGER PWCDOT: Khattab, Shammout, PE - (703) 792-7193
SURVEYED BY, DATE: RDA: Ryan, Debelin, LS. (703) 334-9302, July 3, 2017
DESIGN BY: RDA: Mark A. Guoa, PE - (703) 334-9288
SUBSURFACE UTILITY BY, DATE: Accumark (703) 328-0100, August 1, 2017

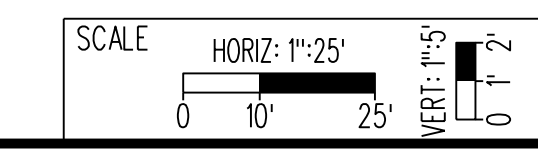
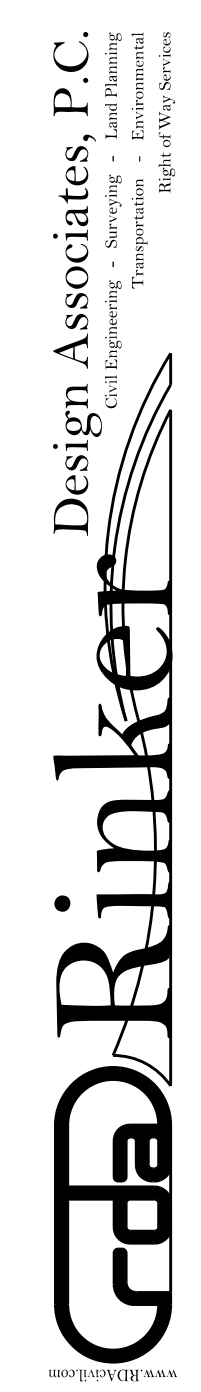
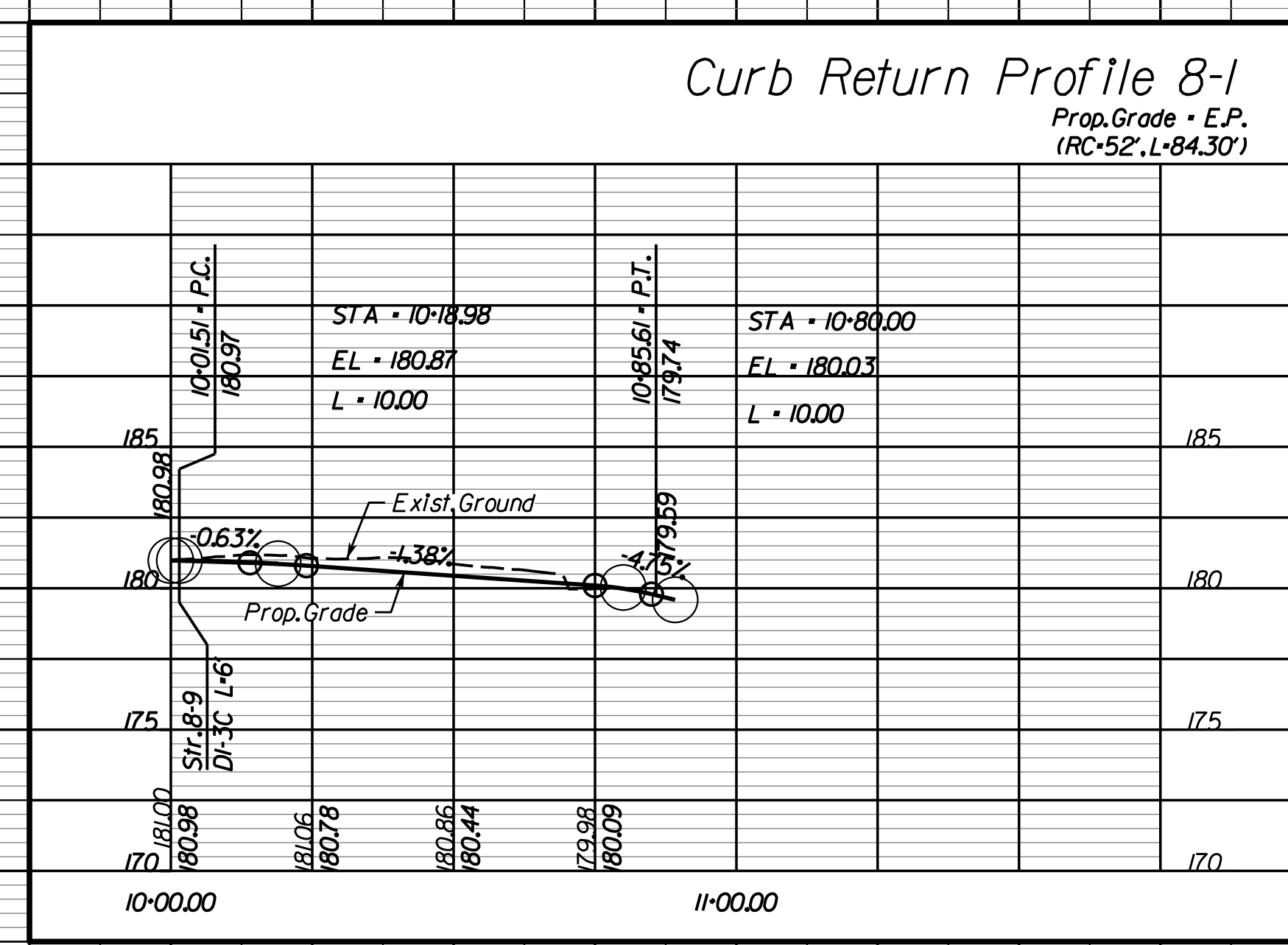
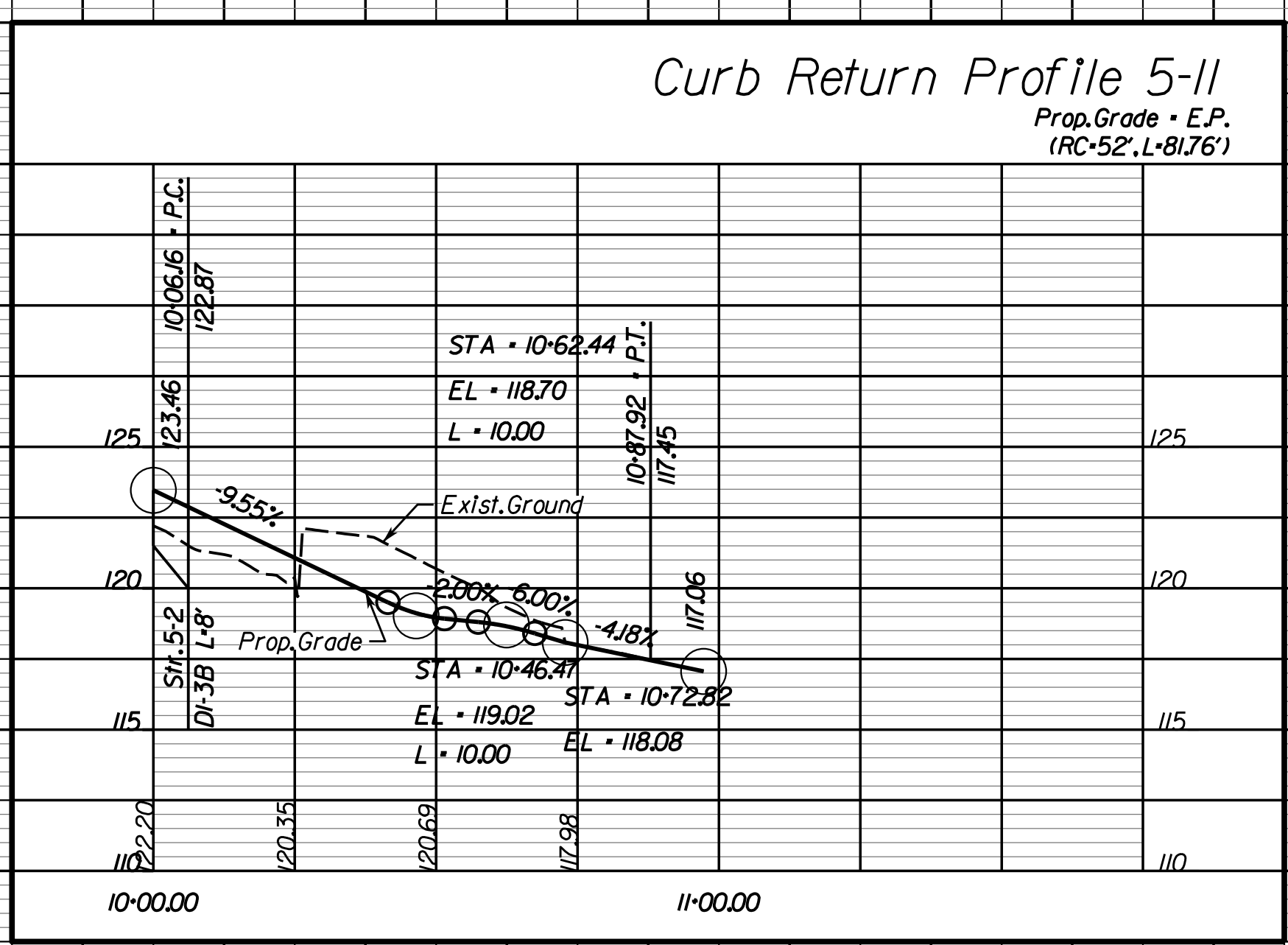
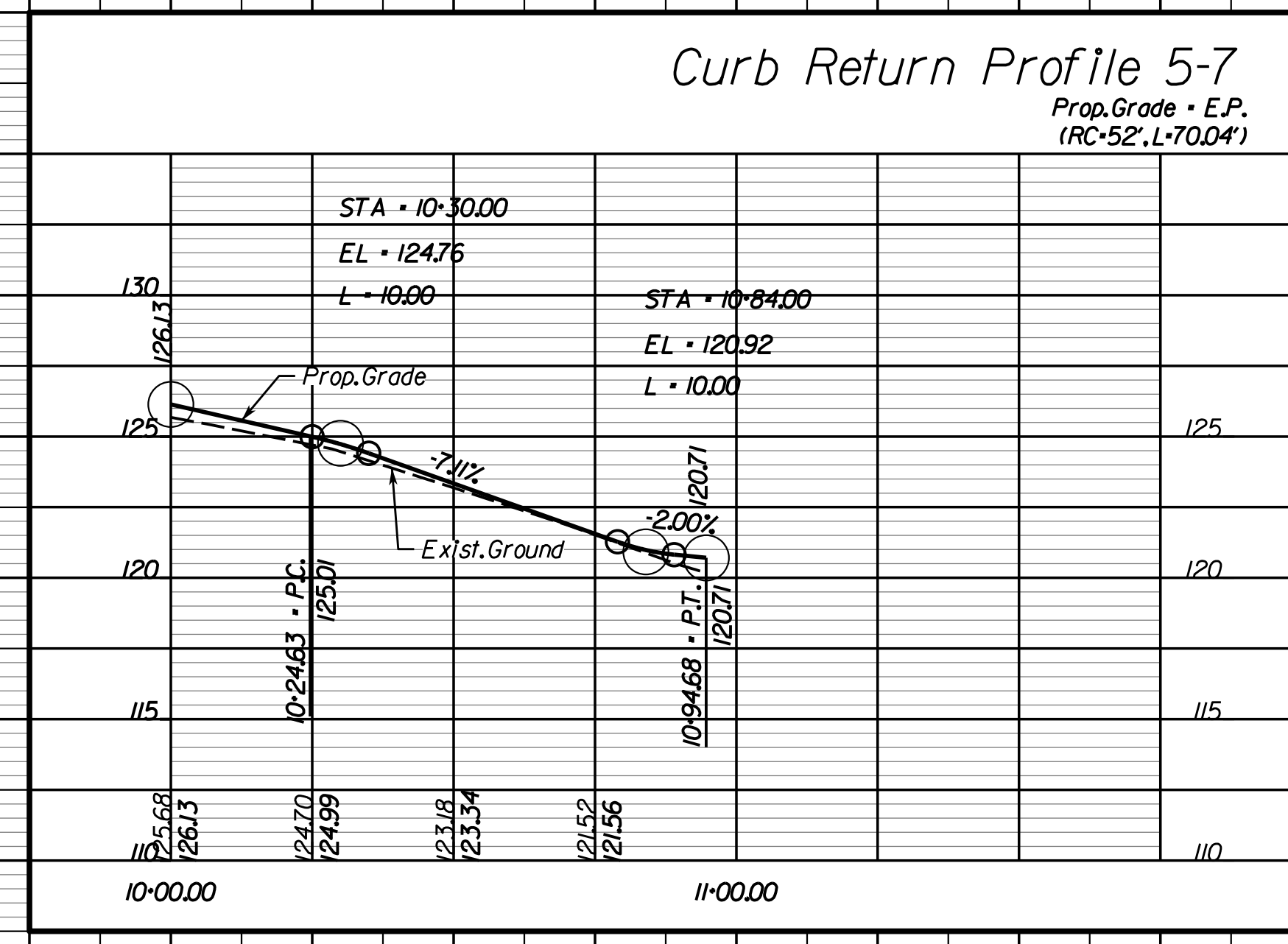
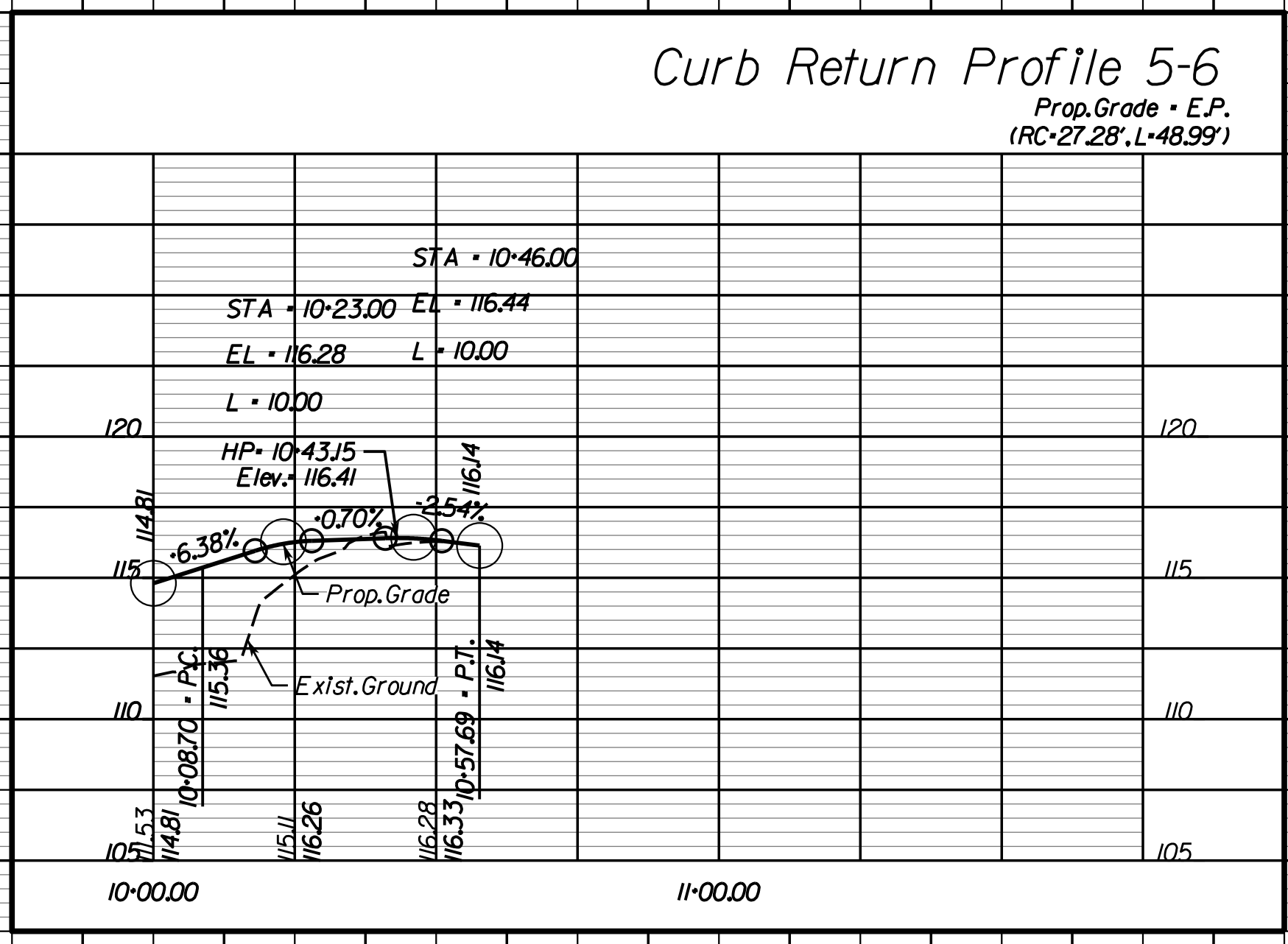
REVISED	STATE		STATE PROJECT		SHEET NO.
	VA.	638	0638-076-209	C501	

CURB RETURN PROFILES

Rinker Design Assoc., P.C.
Fredericksburg, Virginia
(Hydraulics)

Rinker Design Assoc., P.C.
Fredericksburg, Virginia
(Roadway)

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



VDOT PROJECT NO. 0638-076-209
PWCDOT PROJECT NO. SPR2018-00271

SHEET NO. 2F(4)

THESE PLANS ARE UNFINISHED AND UNAPPROVED AND ARE NOT TO BE USED FOR ANY TYPE OF CONSTRUCTION.

R.W. PHASE PLANS

PROJECT MANAGER PWCDOT: Khattab, Shammout, PE - (703) 792-7193
 SURVEYED BY, DATE: RDA: Ryan, Dceblin, LS - (703) 334-9302, July 3, 2017
 DESIGN BY: RDA: Mark, A. Guoa, PE - (703) 334-9288
 SUBSURFACE UTILITY BY, DATE: Accurmark, (703) 378-0100, August 1, 2017

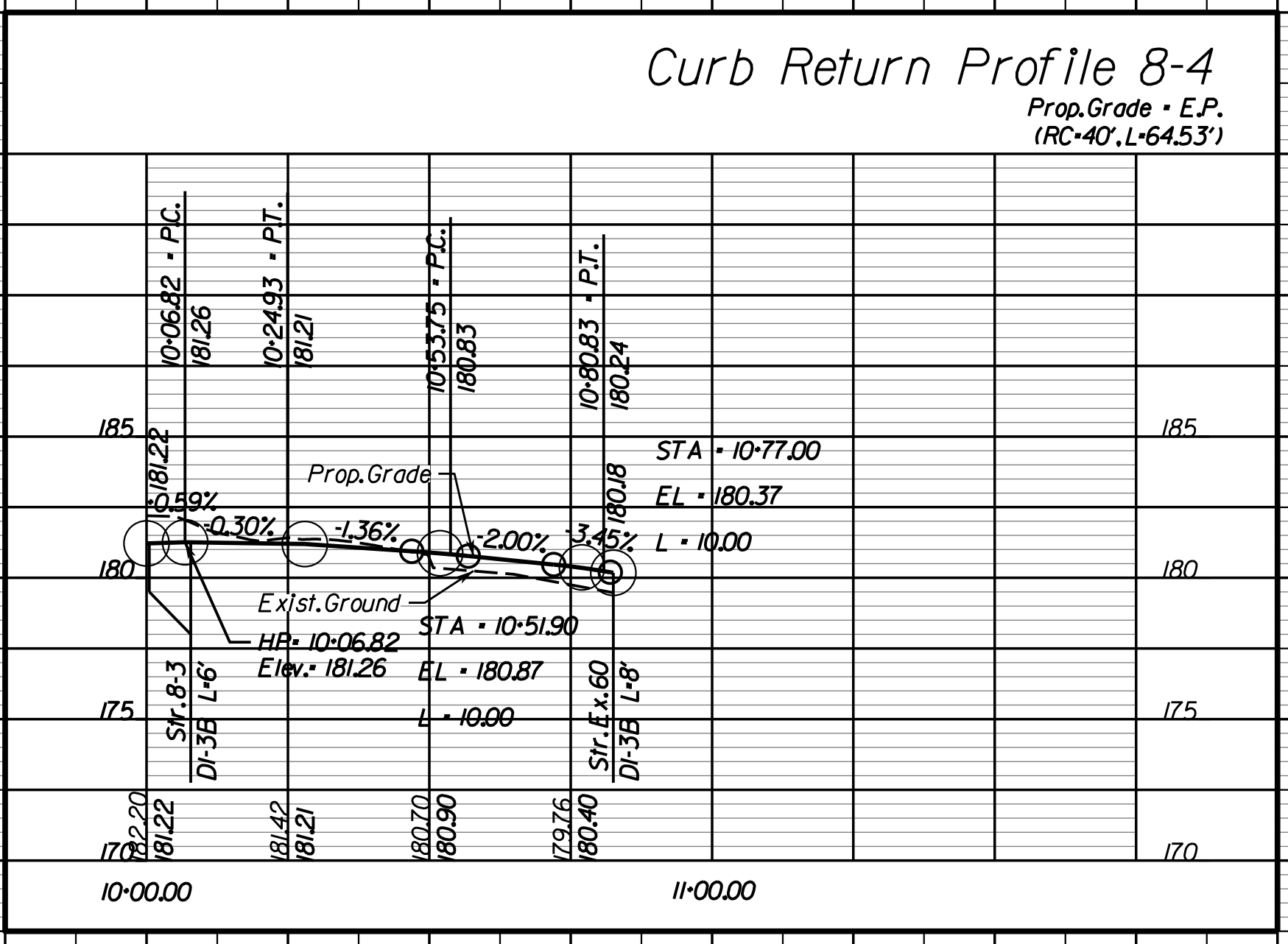
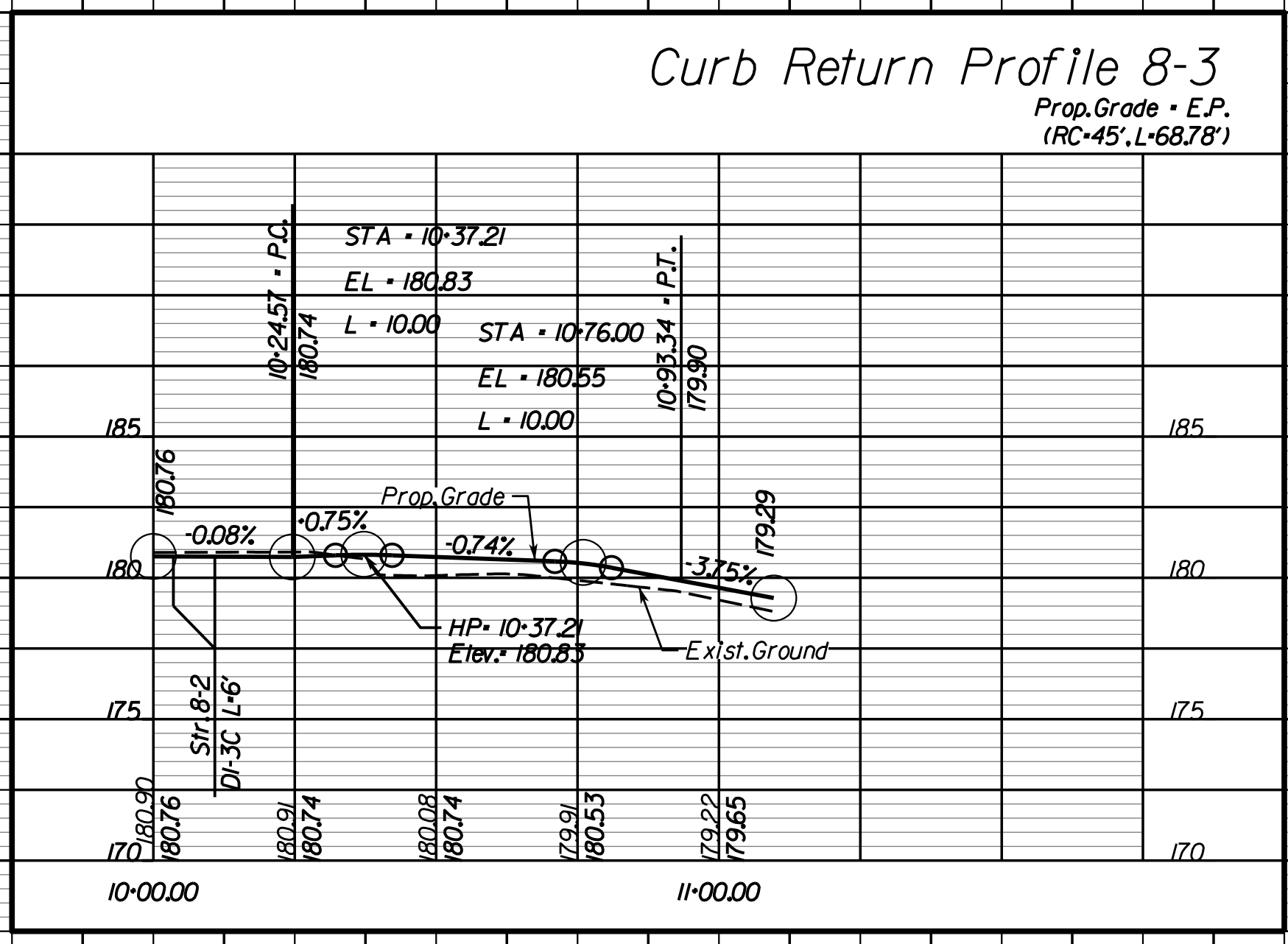
REVISED	STATE	ROUTE	STATE PROJECT	SHEET NO
	VA.	638	0638-076-209 C501	2F(5)

CURB RETURN PROFILES

Rinker Design Assoc., P.C.
 Fredericksburg, Virginia
 (Hydraulics)

Rinker Design Assoc., P.C.
 Fredericksburg, Virginia
 (Roadway)

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 Associates, P.C.
 Civil Engineers, Surveyors, Environmental Engineers, Transportation Engineers, Right of Way Services
 10000 Lakeside Drive, Suite 100, Fredericksburg, VA 22409
 Phone: (703) 334-9288, Fax: (703) 334-9289

THESE PLANS ARE UNFINISHED AND UNAPPROVED AND ARE NOT TO BE USED FOR ANY TYPE OF CONSTRUCTION.

R.W. PHASE PLANS

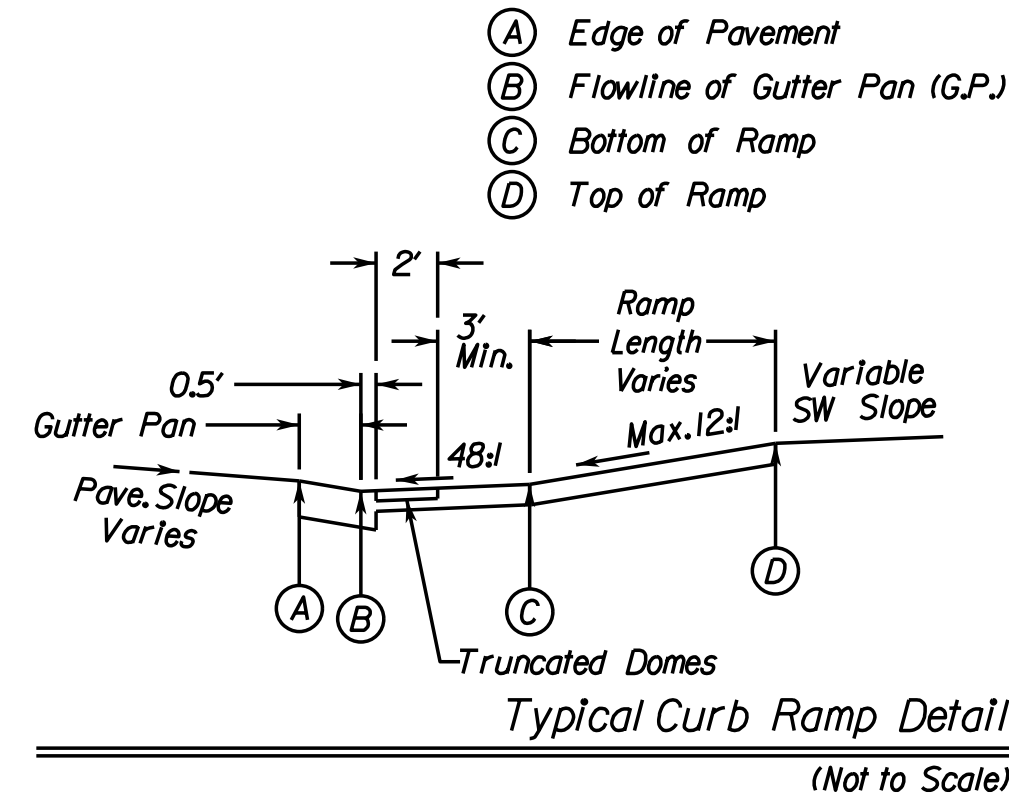
PROJECT MANAGER: *EWCDOT - Khattab, Shamout, P.E. (703) 792-7193*
 SURVEYED BY, DATE: *RDA: Ryan Dreehl, LS (703) 334-9302, July 3, 2017*
 DESIGN BY: *RDA: Mack, Gunn, P.E. (703) 334-9288*
 SUBSURFACE UTILITY BY, DATE: *Accumark (703) 378-0100, August 1, 2017*

CG-12 Details

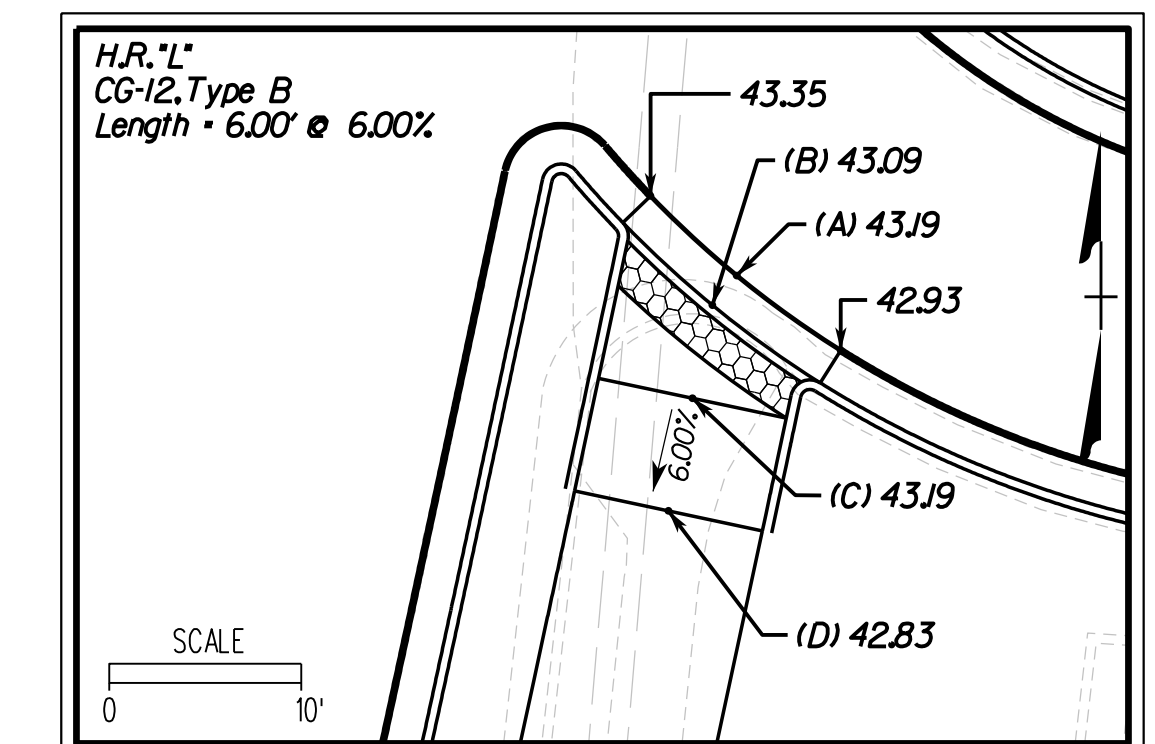
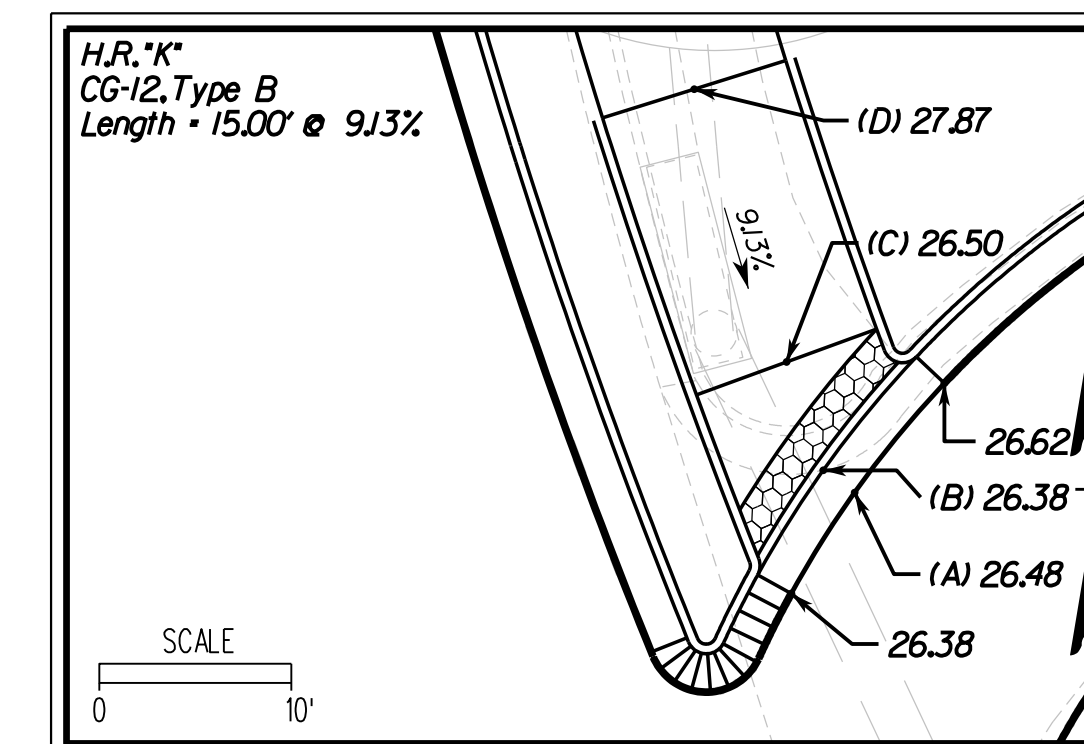
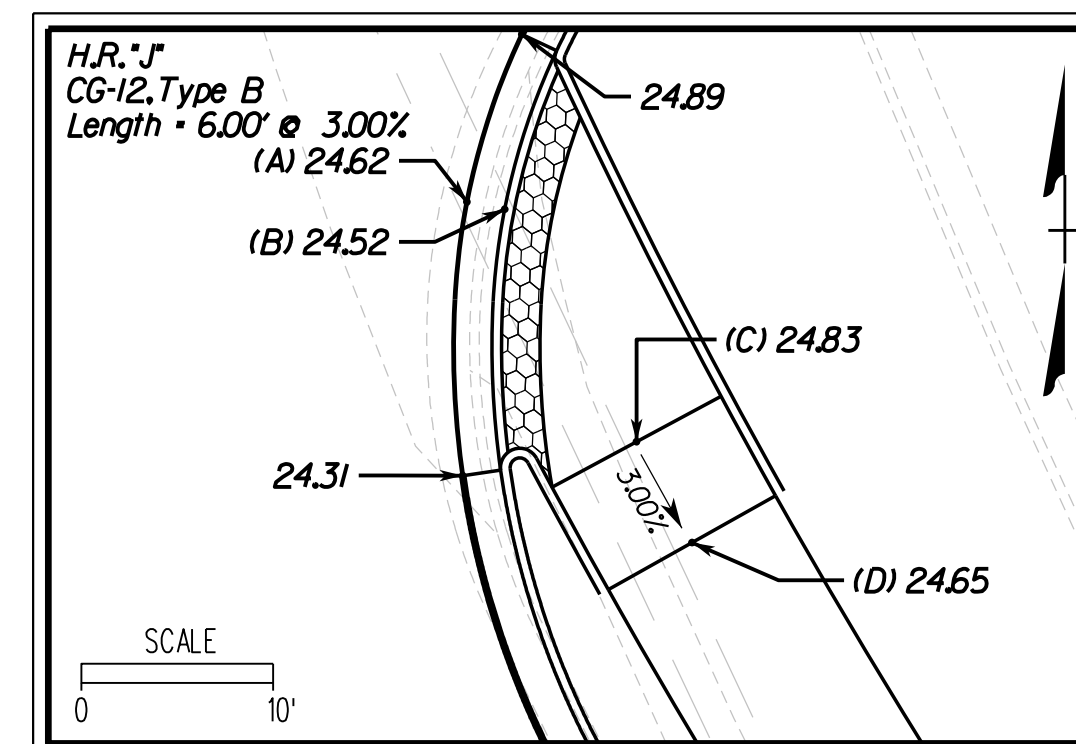
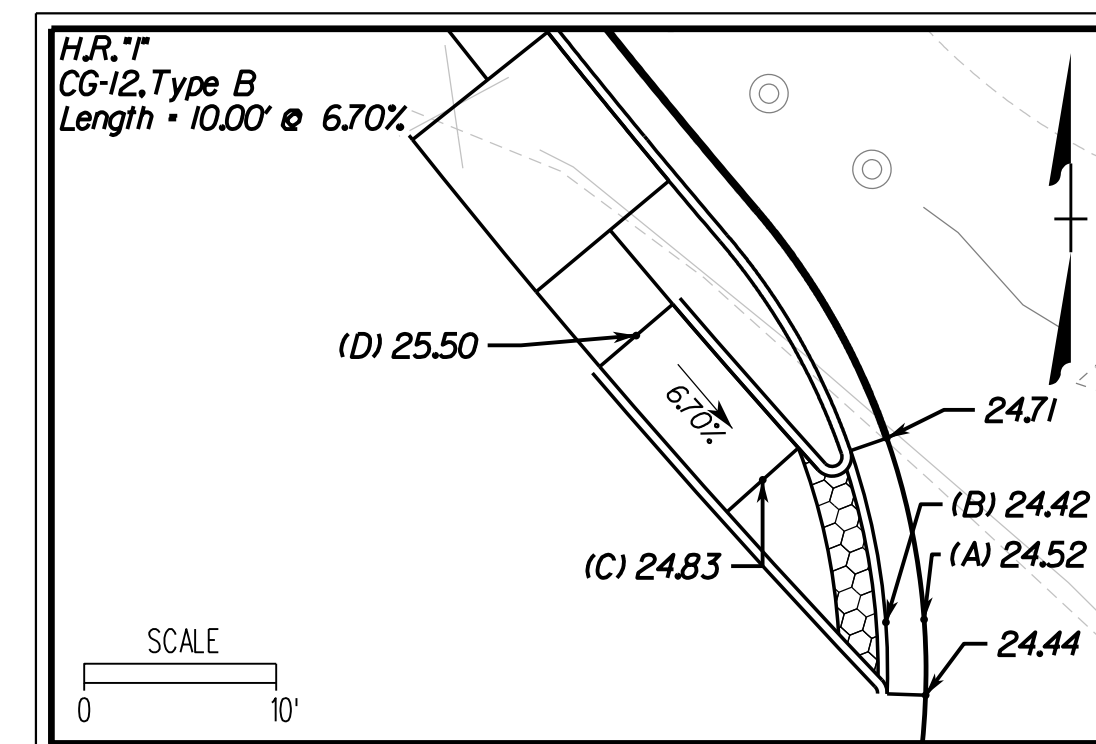
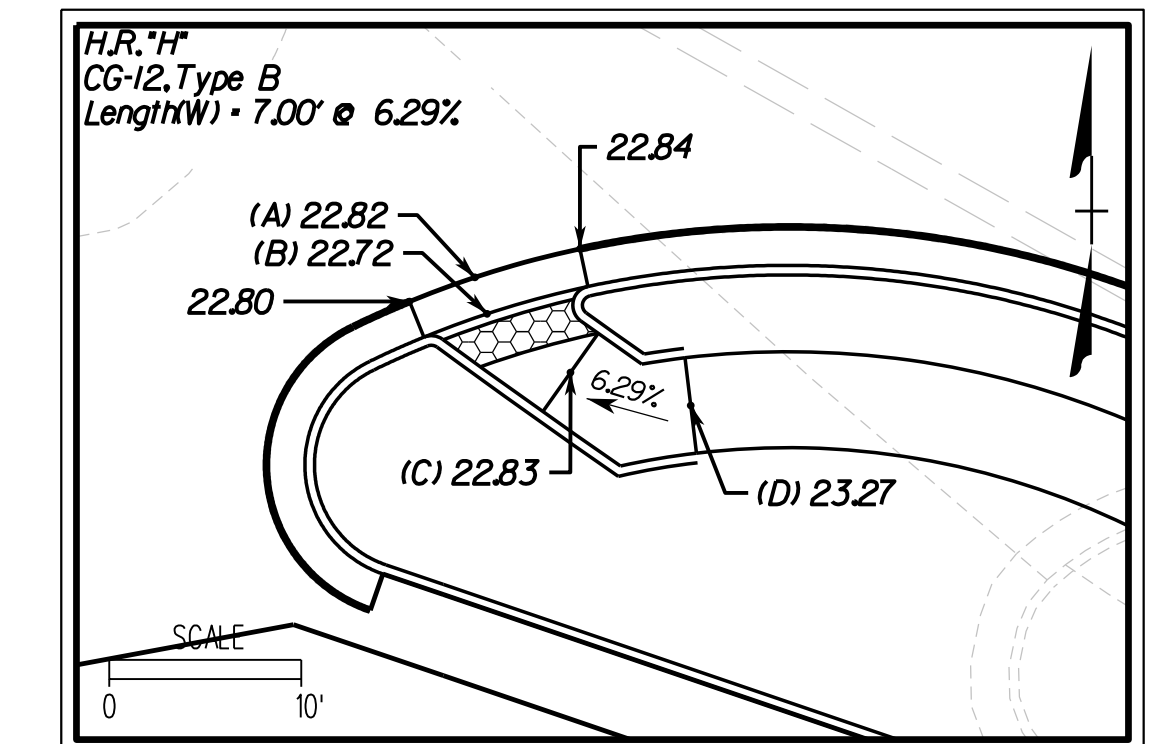
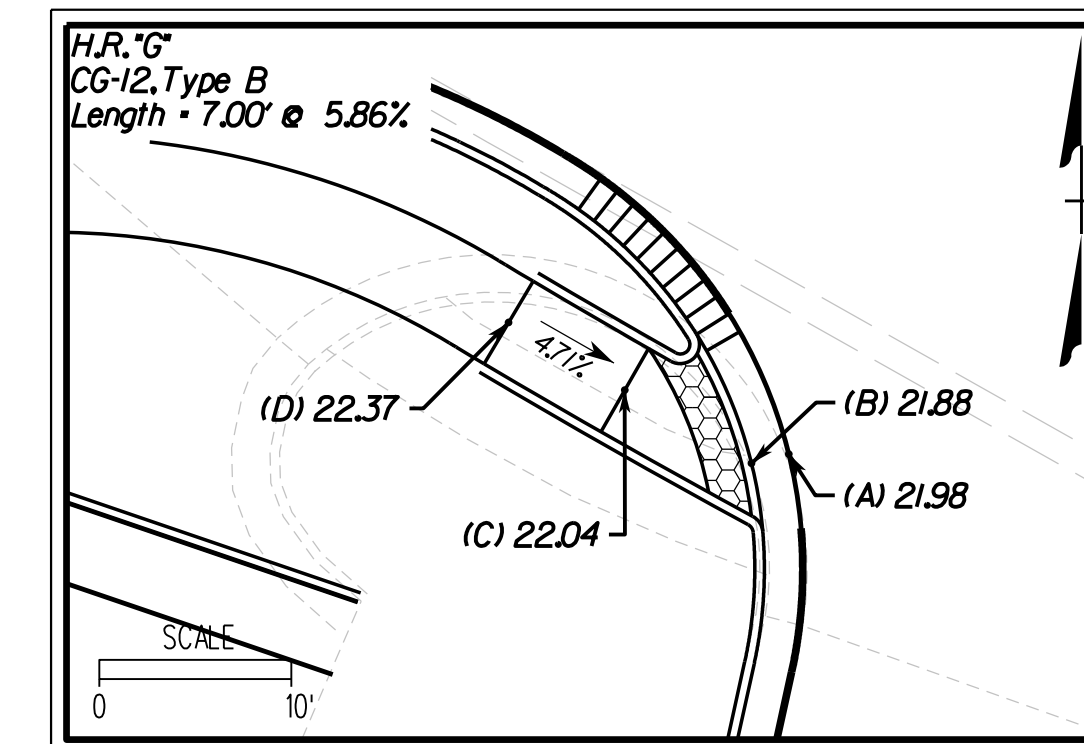
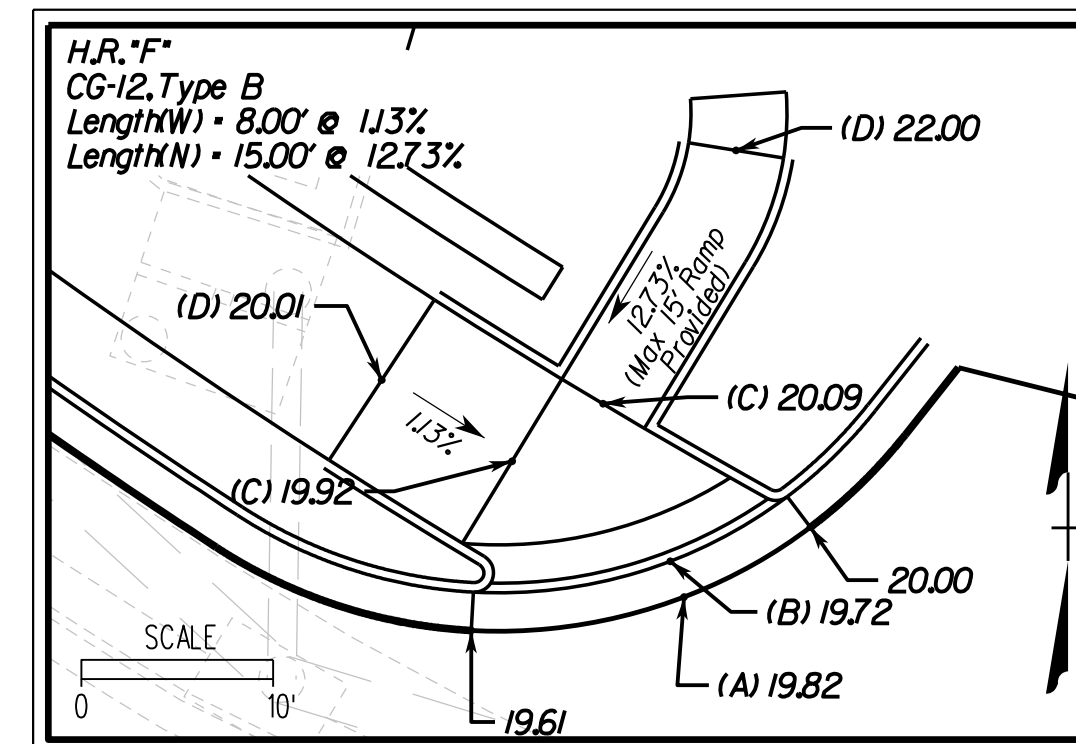
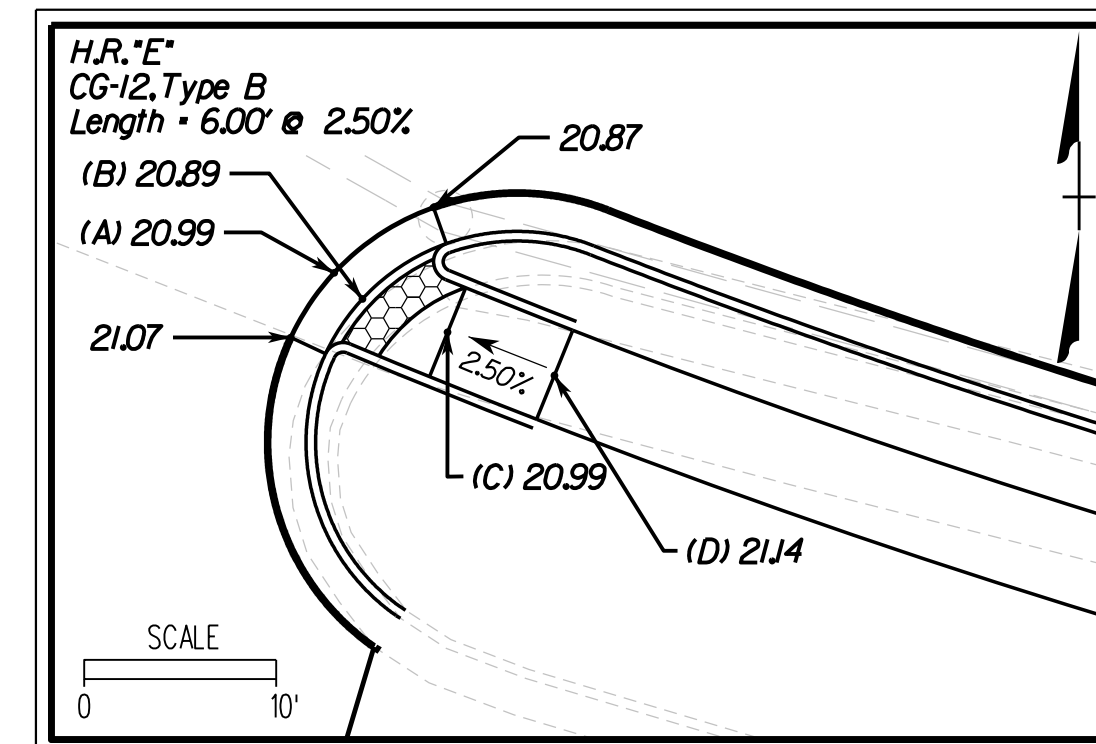
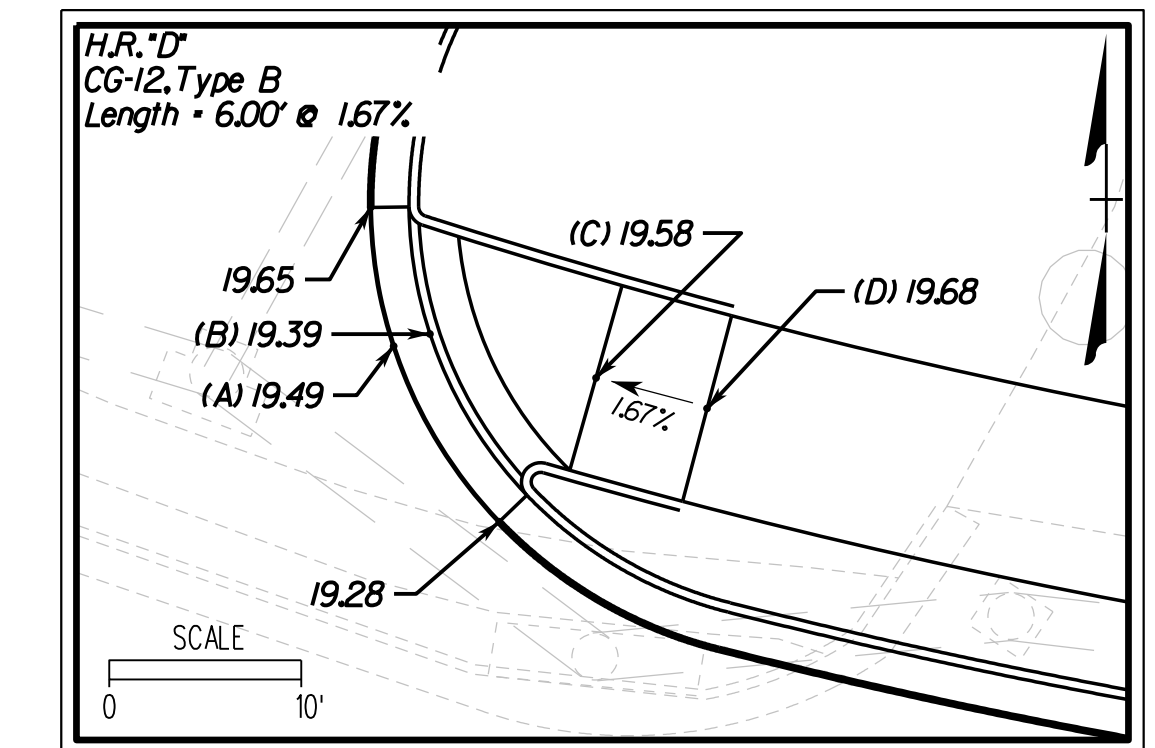
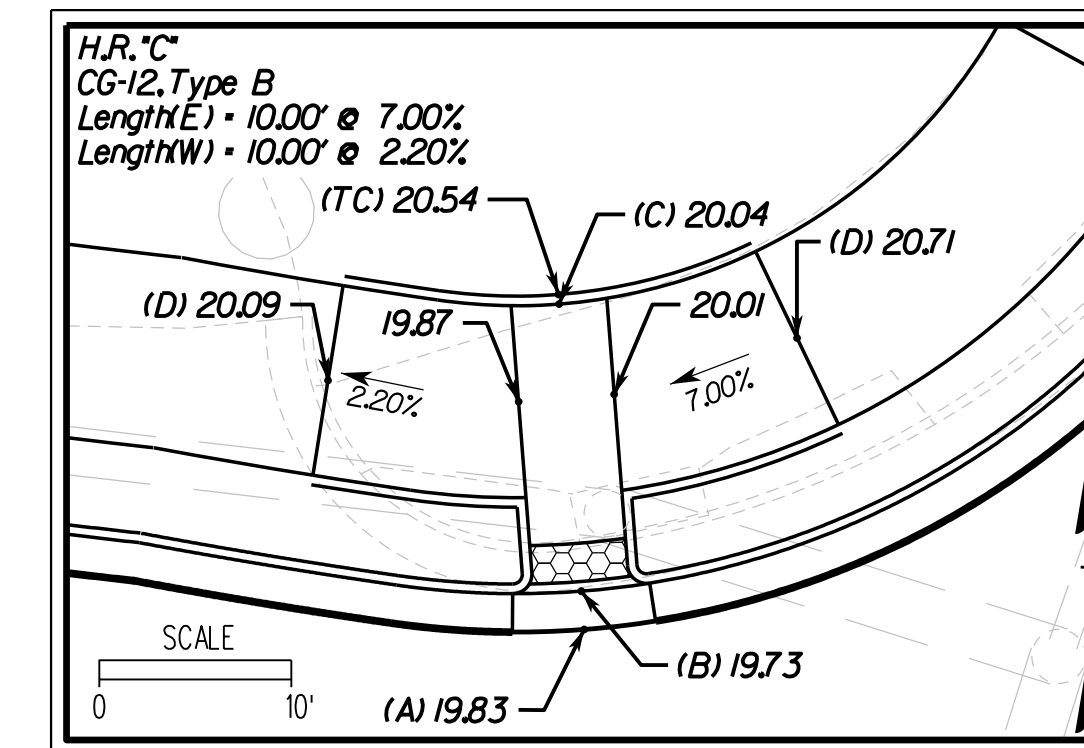
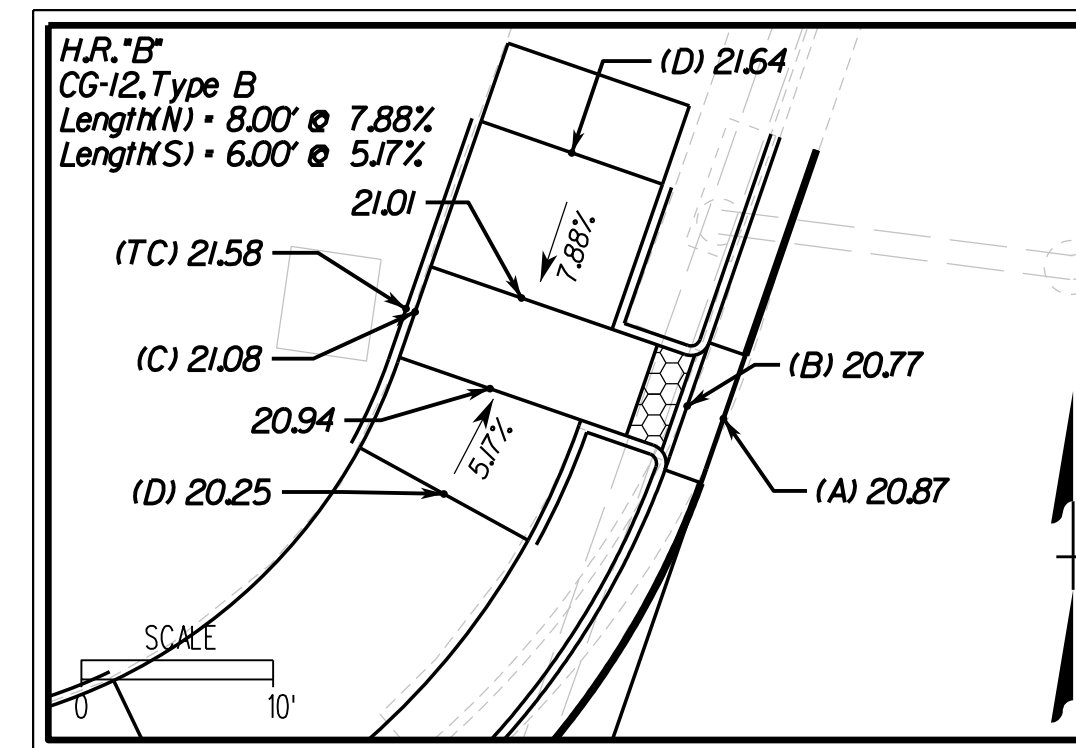
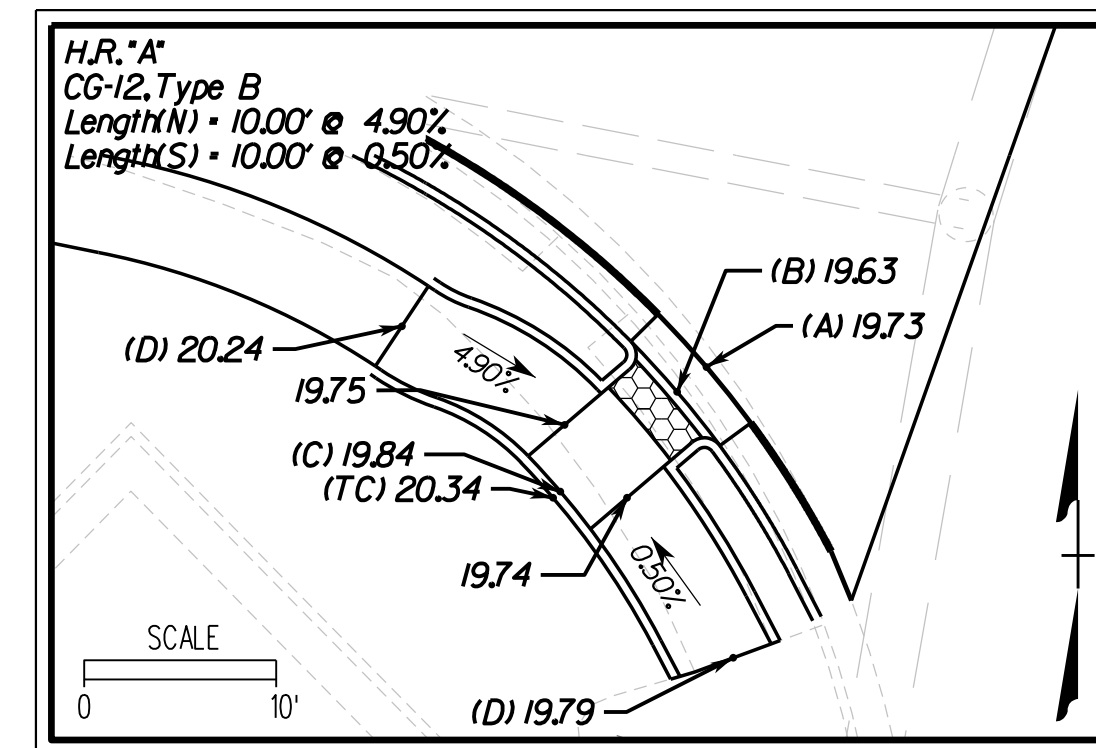
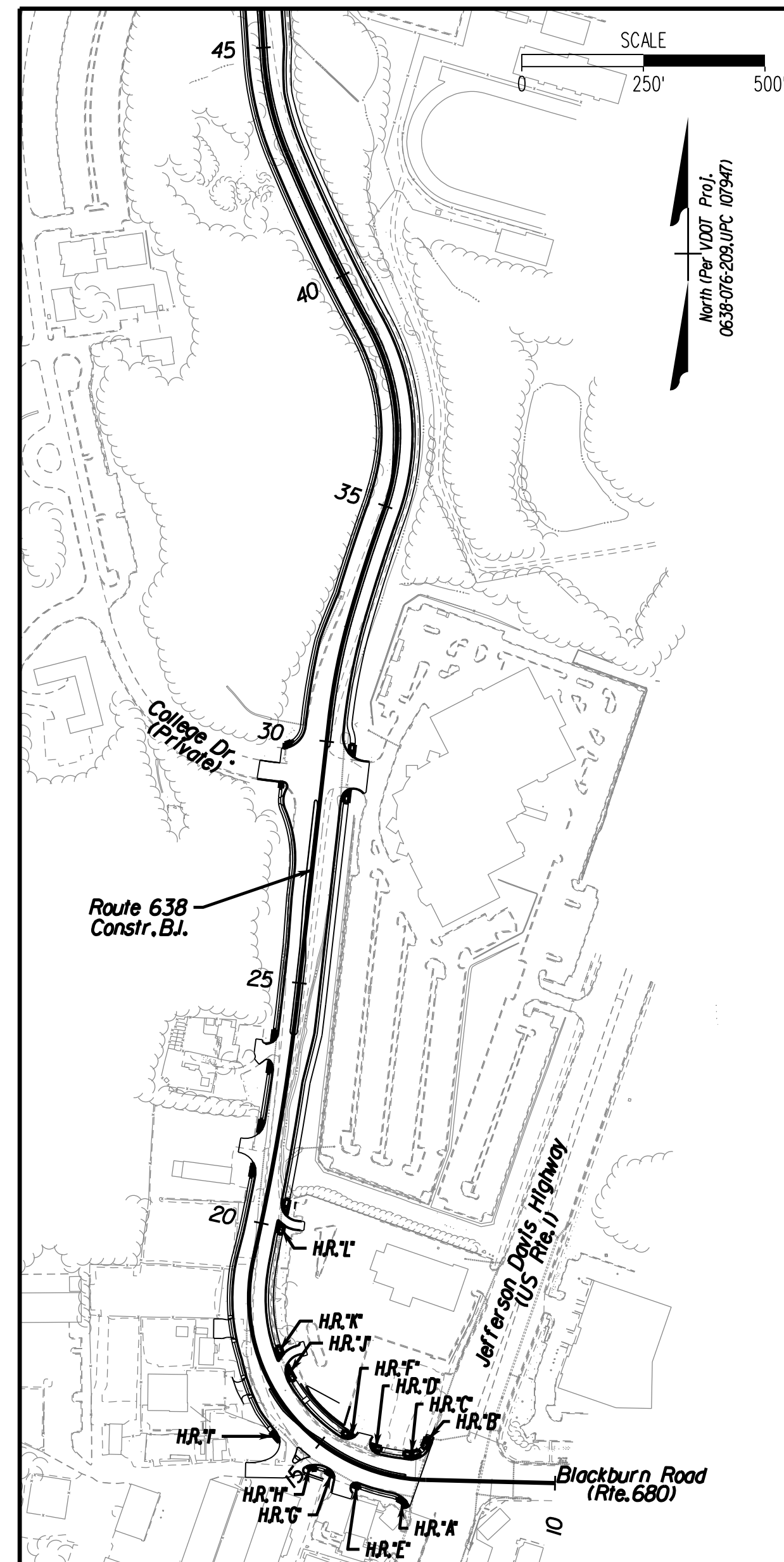
REVISED	STATE	ROUTE	STATE	VDOT PROJECT NO.	SHEET NO.
	VA.	638		0638-076-209 PE101 CS01 RW201	26

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
(Roadway)



PLAN LOCATION OF CG-12 RAMPS



VDOT PROJECT NO. 0638-076-209	SHEET NO. 26
PWCDOT PROJECT NO. SPR2018-00271	

THESE PLANS ARE UNFINISHED AND UNAPPROVED AND ARE NOT TO BE USED FOR ANY TYPE OF CONSTRUCTION.

R/W PHASE PLANS



PROJECT MANAGER: PWCDOT - Khattab, Shamouh, P.E. (703) 792-7193
SURVEYED BY, DATE: RDA: Bryan Dreel, A.S. (703) 334-9302, July 3, 2017
DESIGN BY: RDA: Mack, Gunn, P.E. (703) 334-9288
SUBSURFACE UTILITY BY, DATE: Accumark (703) 378-0100, August 1, 2017

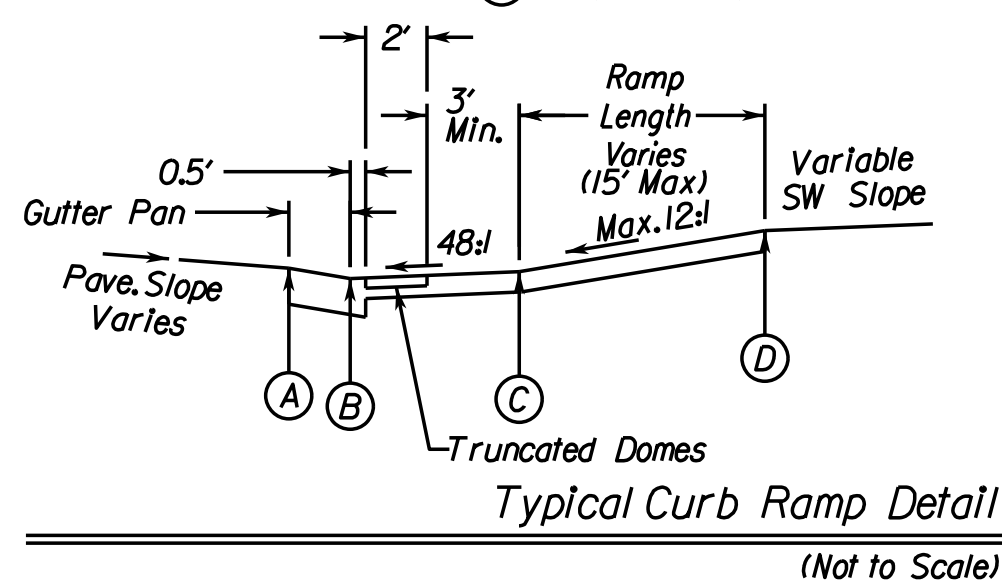
CG-12 Details

REVISED	STATE		STATE	SHEET NO.
	ROUTE	VDOT PROJECT NO.		
	VA.	638	0638-076-209 PE101 CS01 RW201	2G(1)

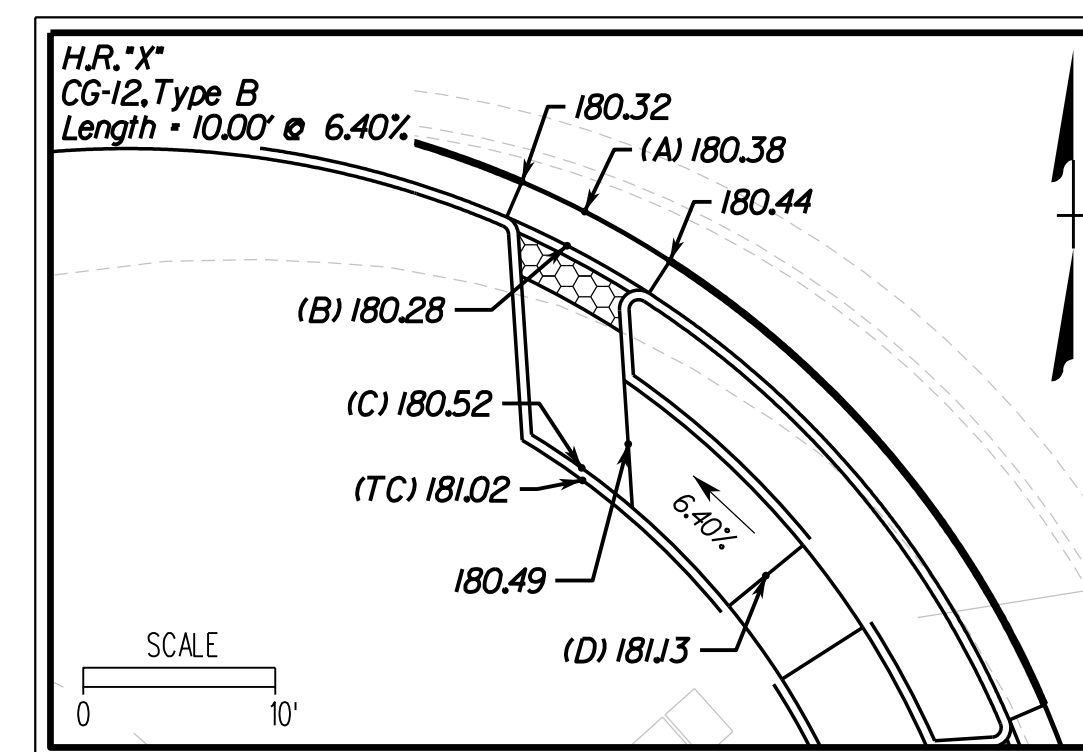
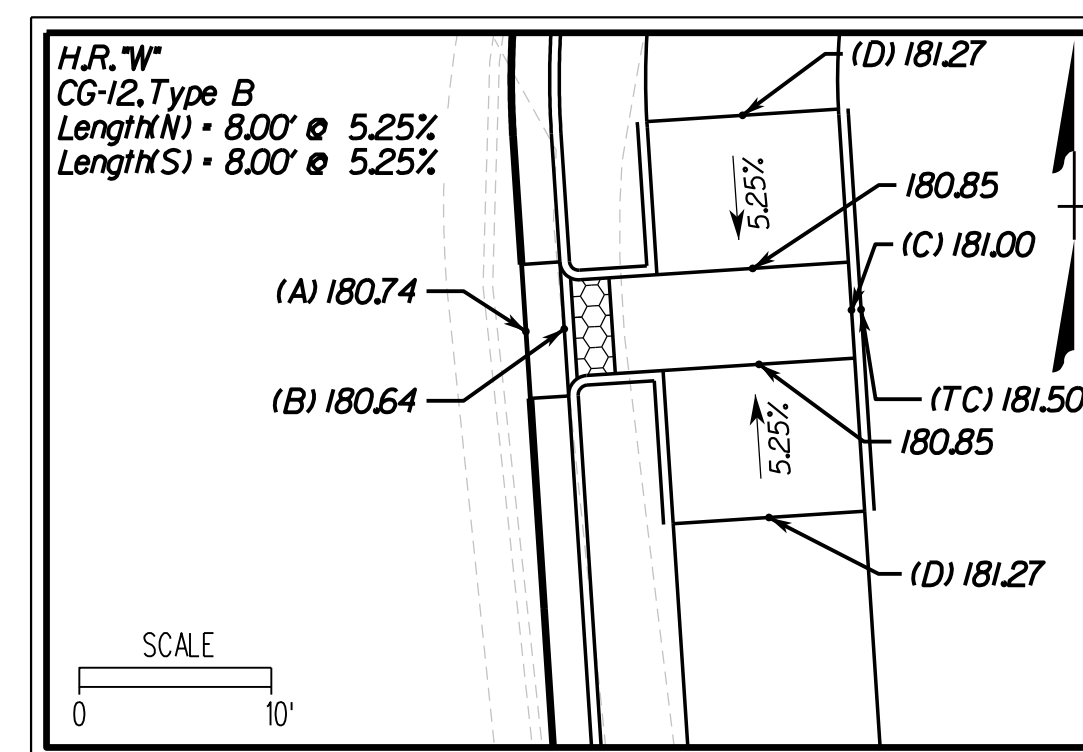
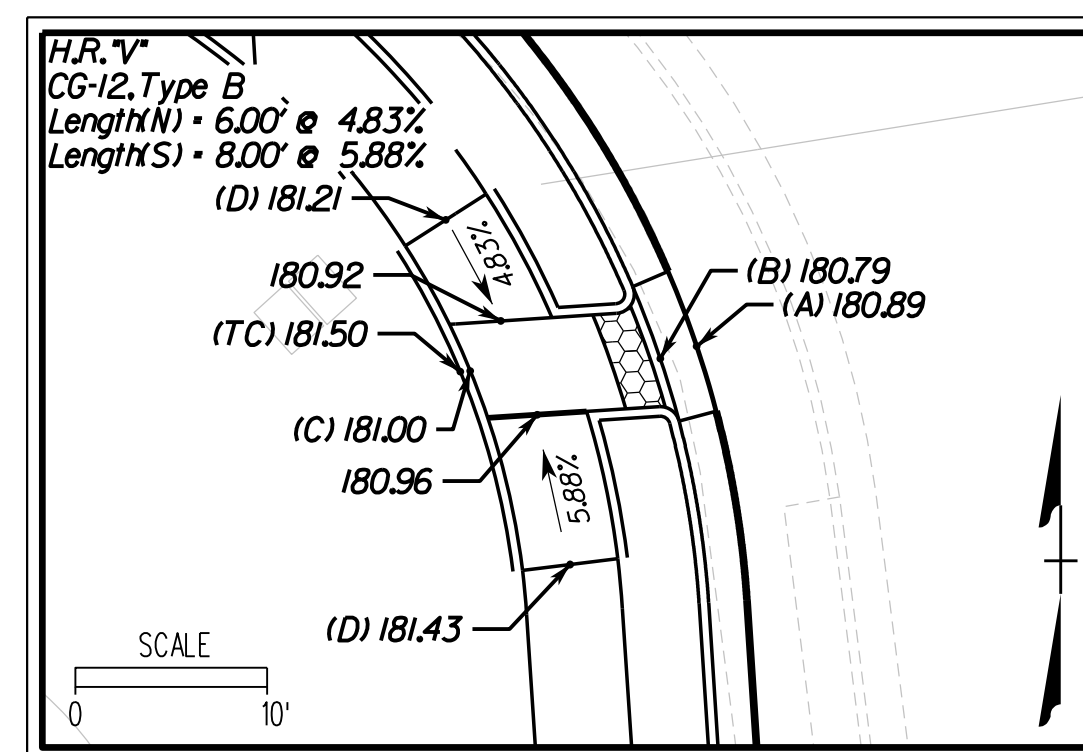
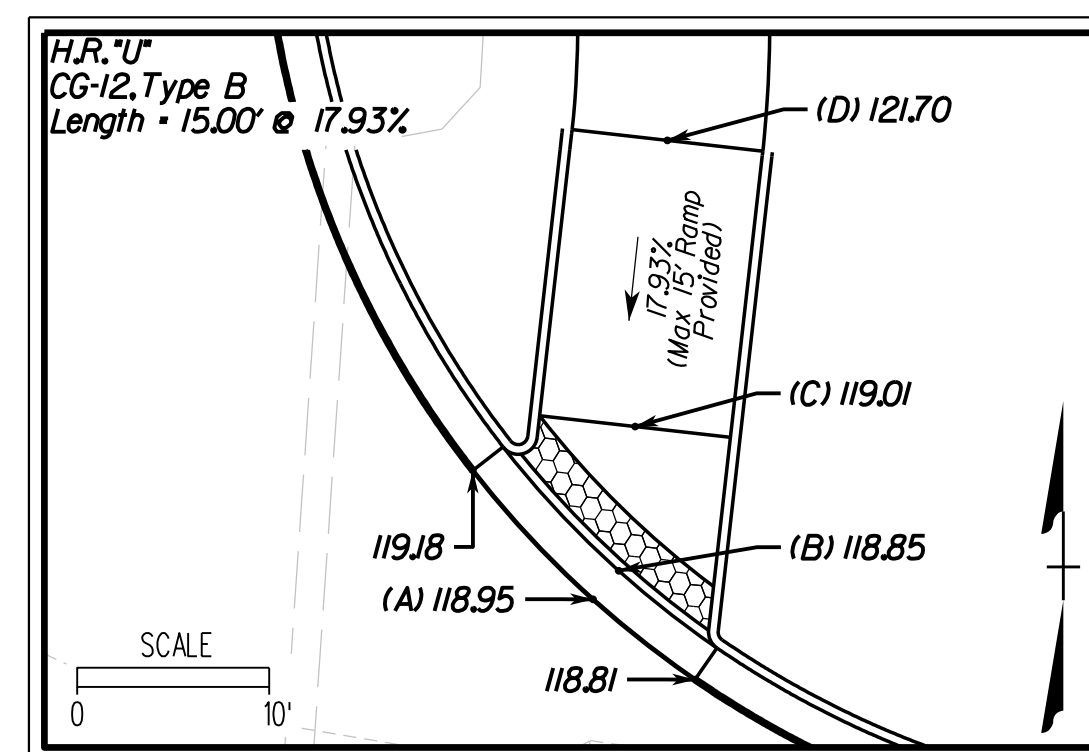
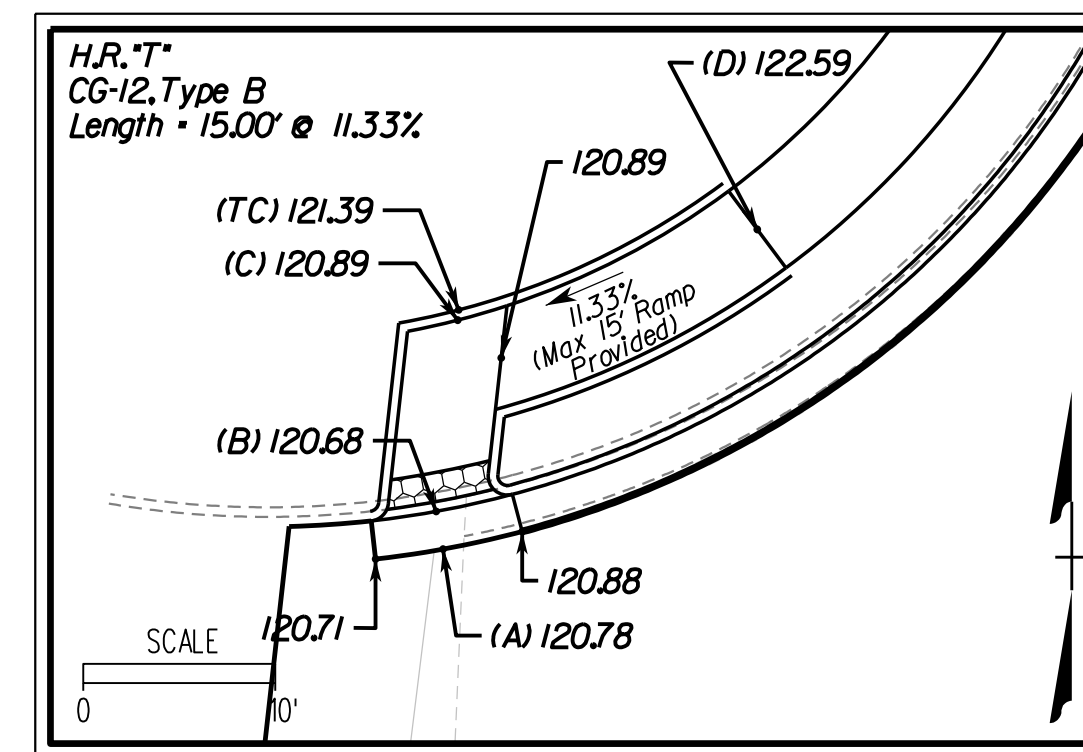
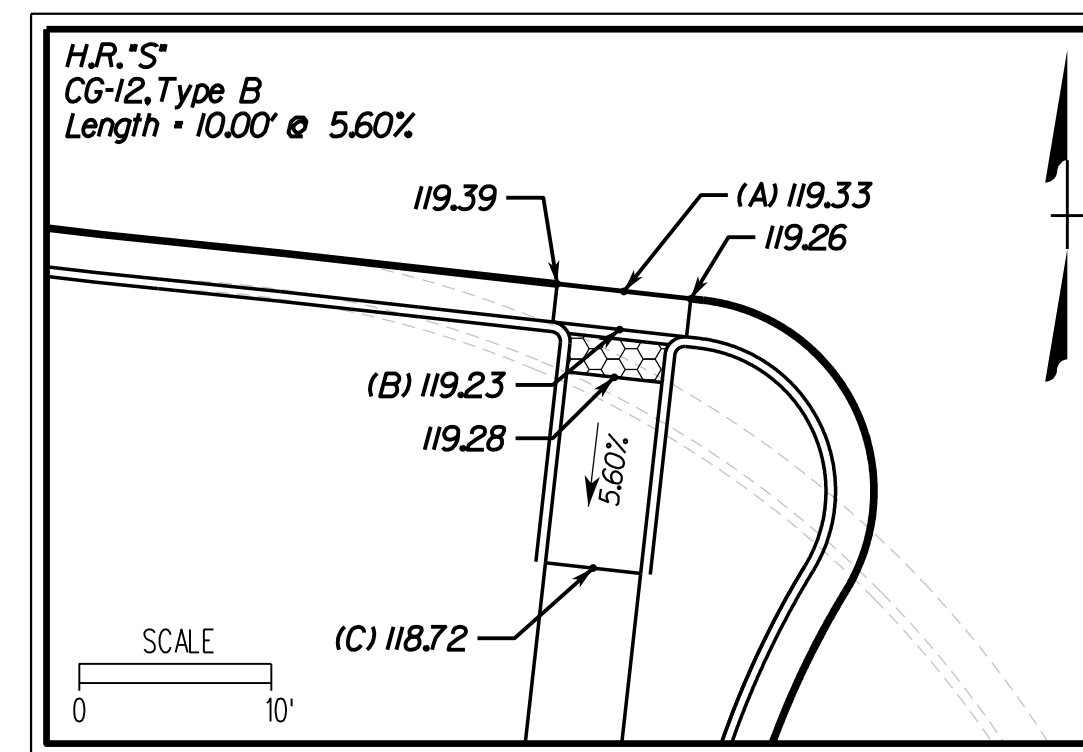
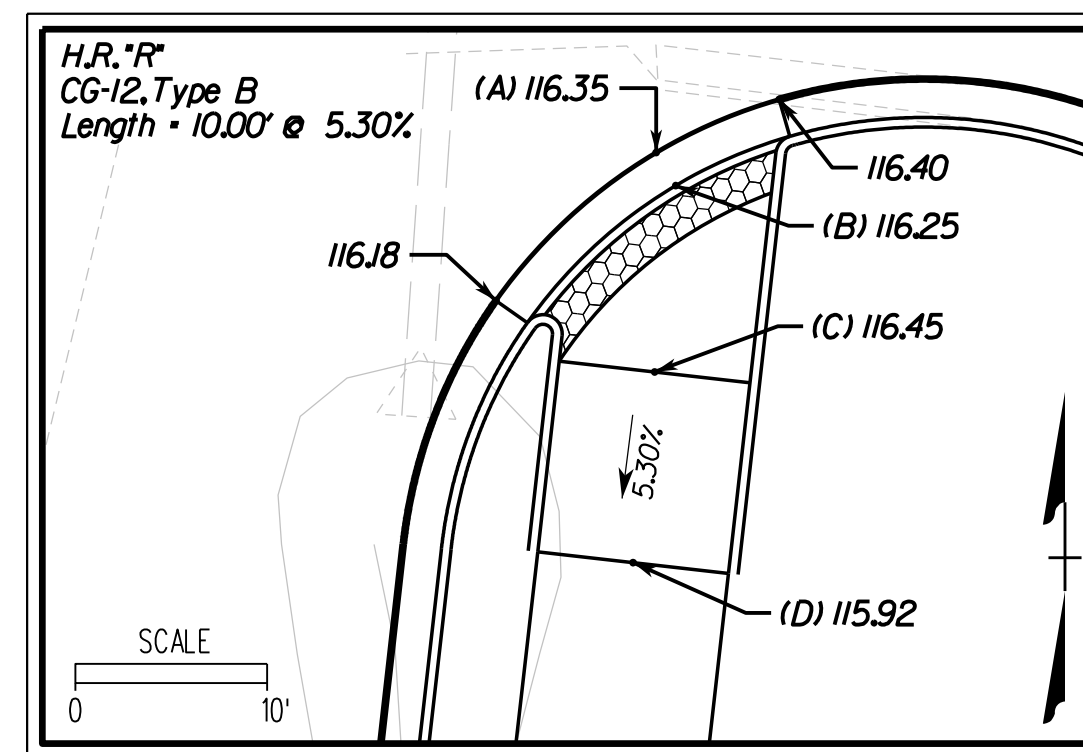
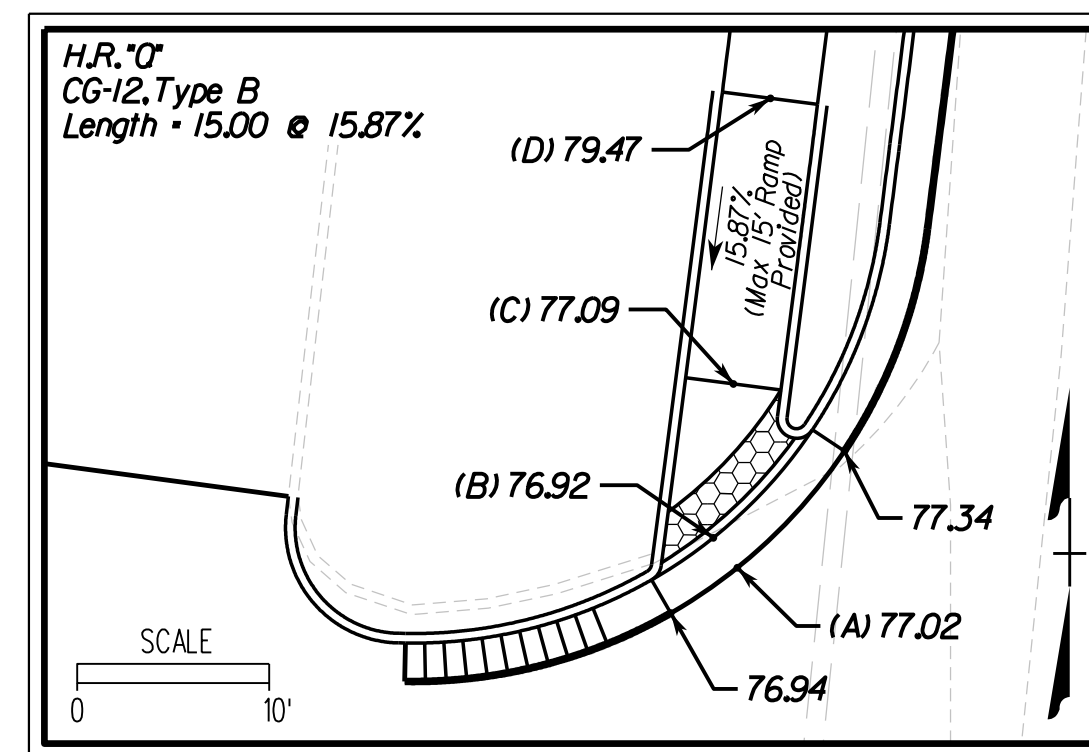
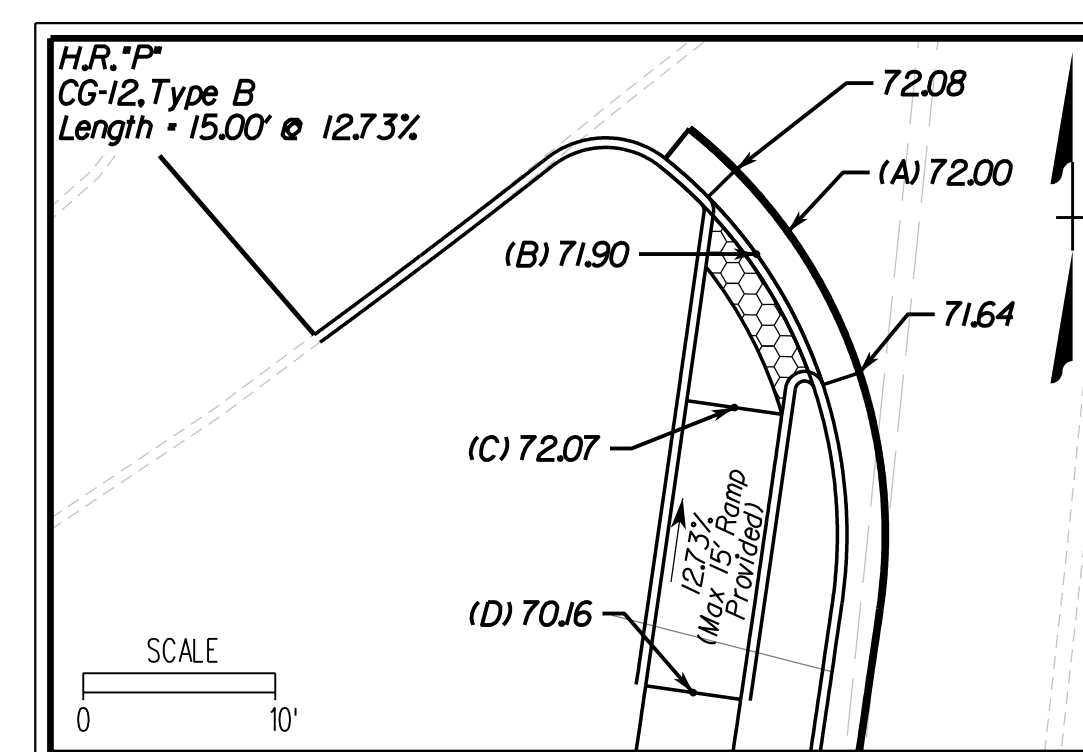
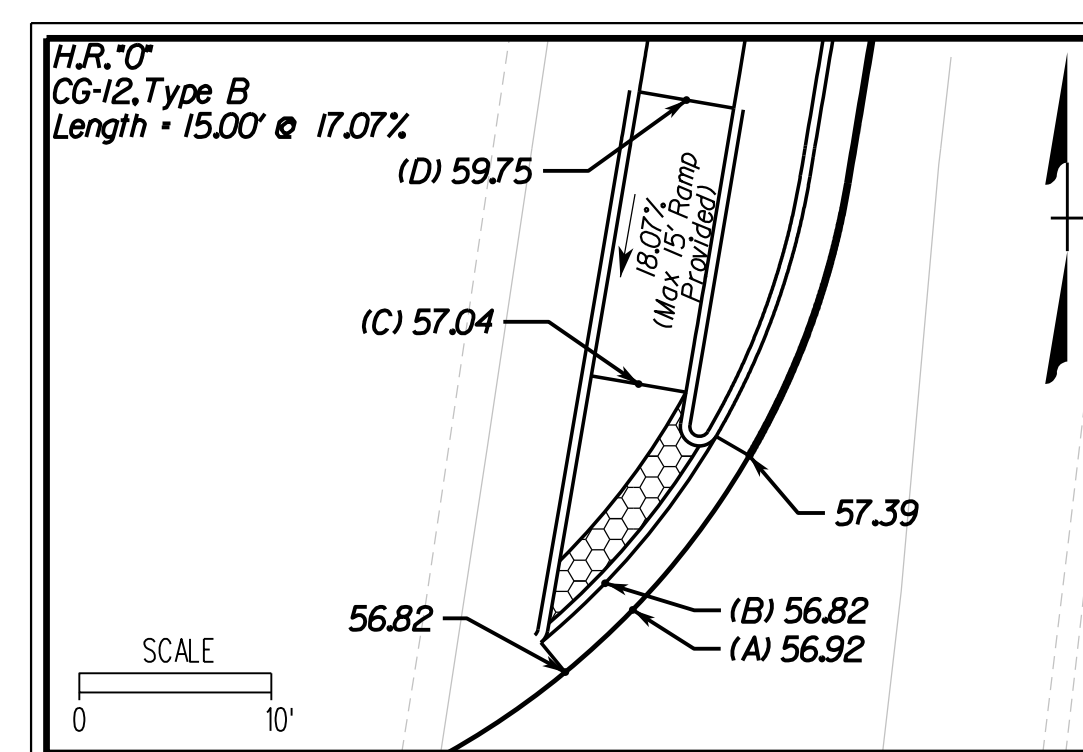
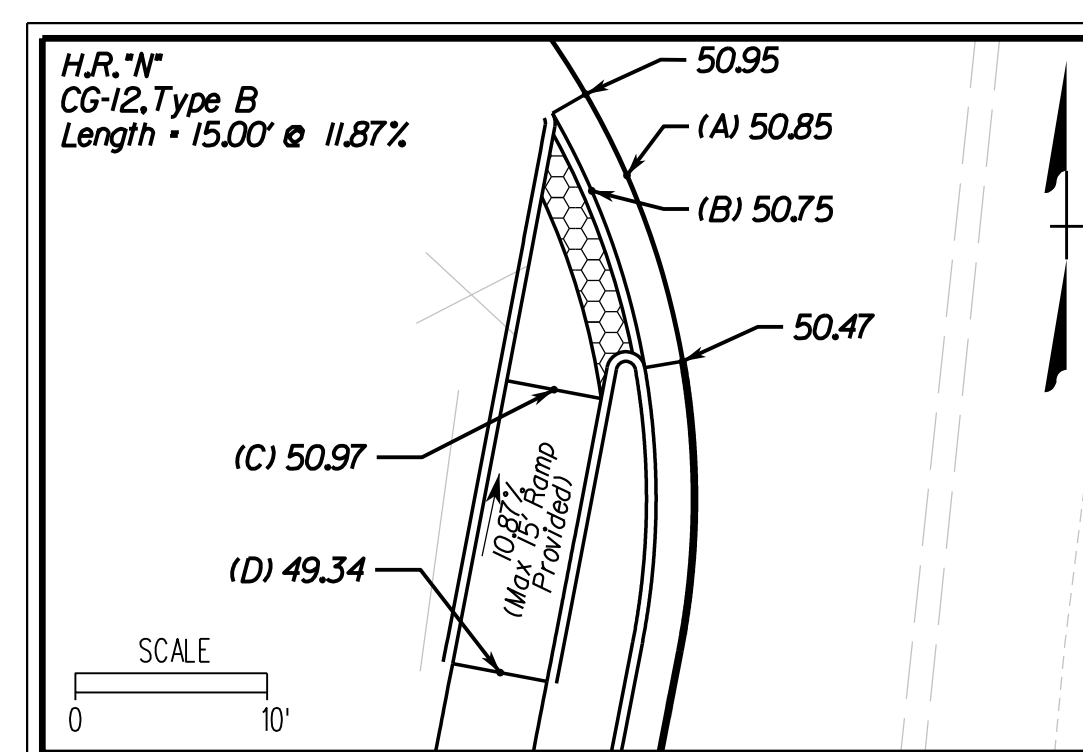
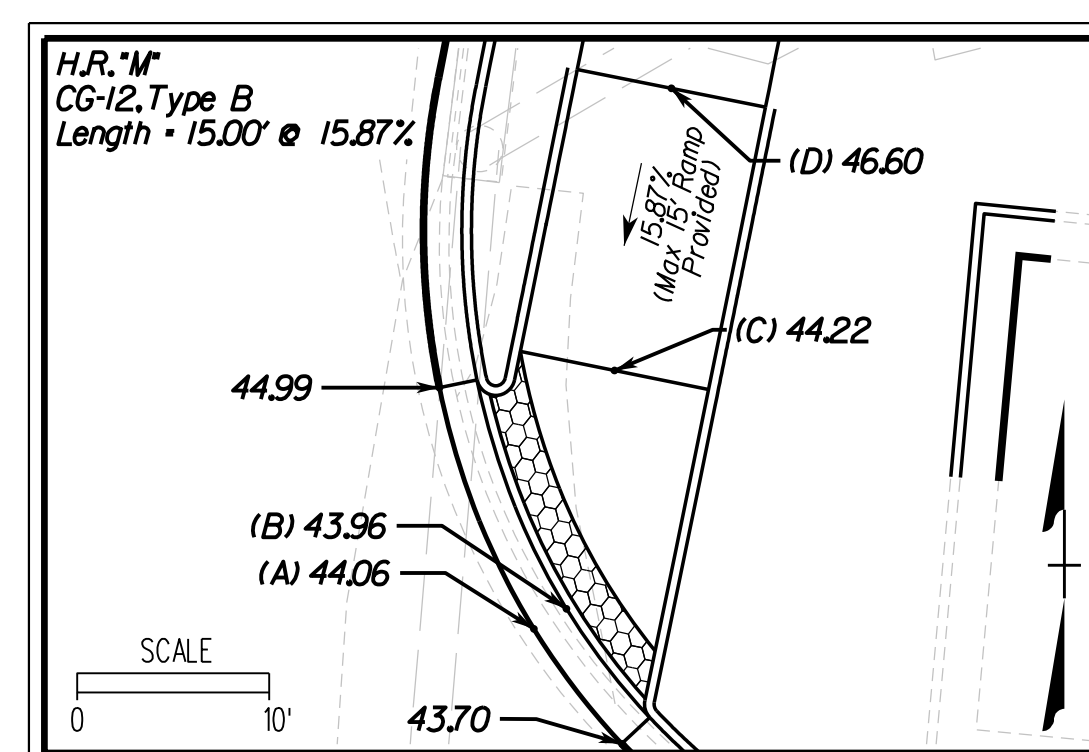
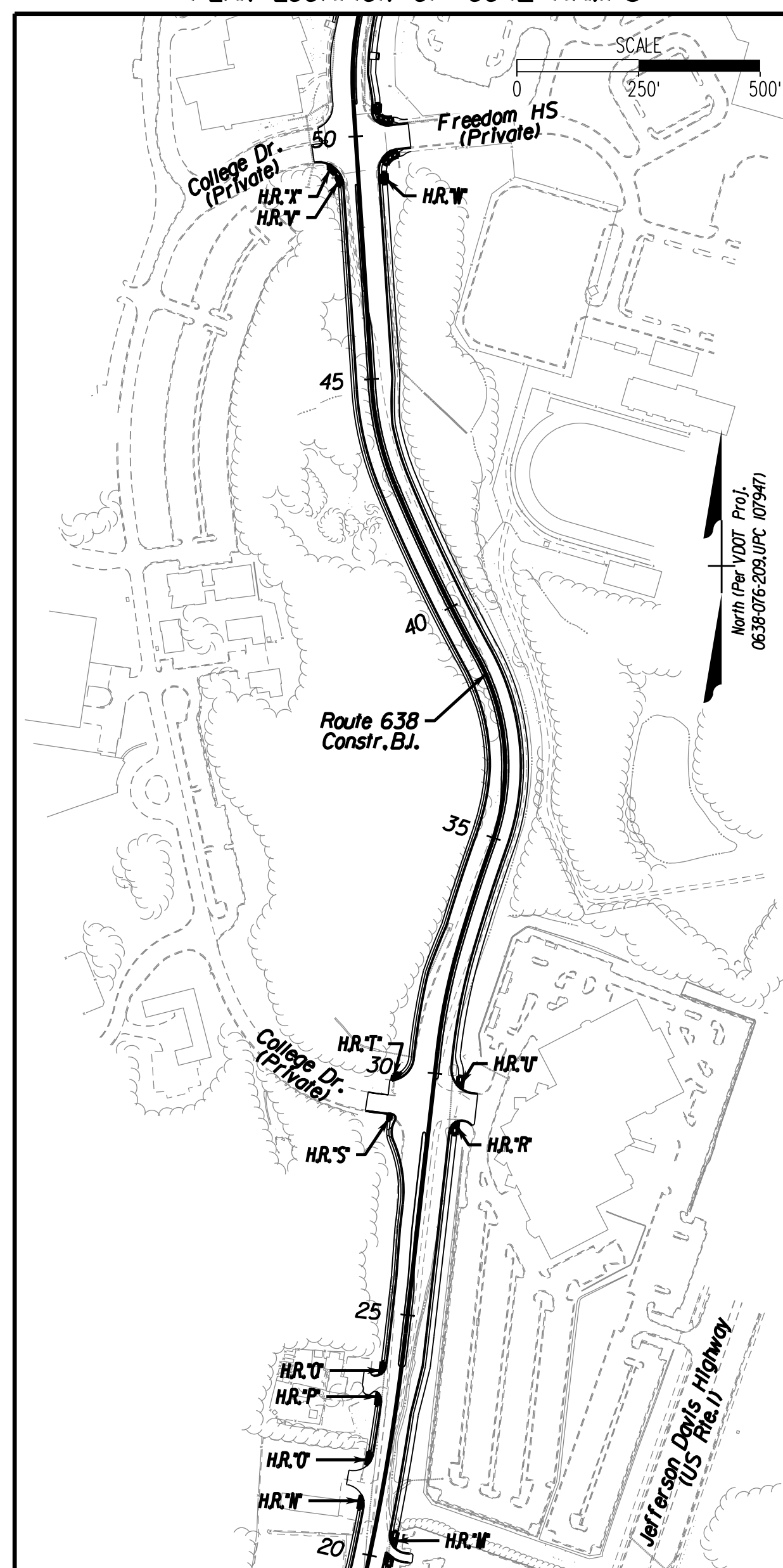
DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT

Rinker Design Assoc., P.C.
Fredericksburg, Virginia
(Roadway)

- (A) Edge of Pavement
- (B) Flowline of Gutter Pan (G.P.)
- (C) Bottom of Ramp
- (D) Top of Ramp



PLAN LOCATION OF CG-12 RAMPS



THESE PLANS ARE UNFINISHED AND UNAPPROVED AND ARE NOT TO BE USED FOR ANY TYPE OF CONSTRUCTION.

R/W PHASE PLANS

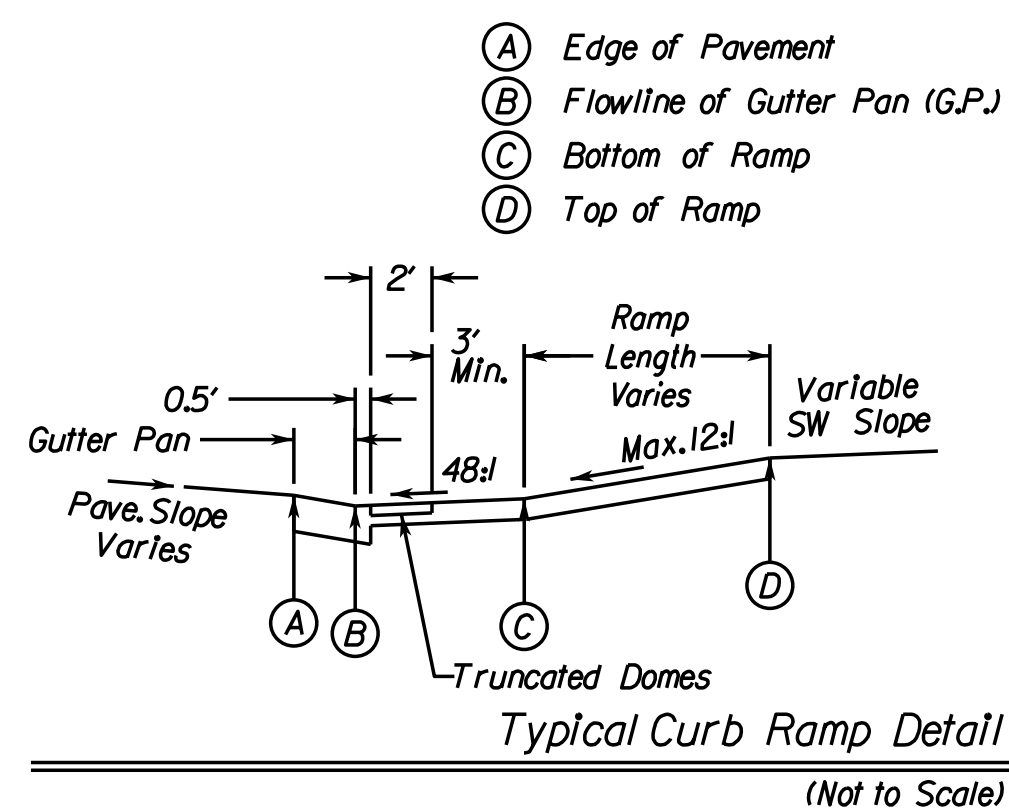
PROJECT MANAGER: PWCDOT - Khattab, Shamout, P.E. (703) 792-7193
 SURVEYED BY, DATE: RDA: Bryan Dreel / LS (703) 334-9302, July 3, 2017
 DESIGN BY: RDA: Mack, Gunn, P.E. (703) 334-9288
 SUBSURFACE UTILITY BY, DATE: Accurmark (703) 378-0100, August 1, 2017

CG-12 Details

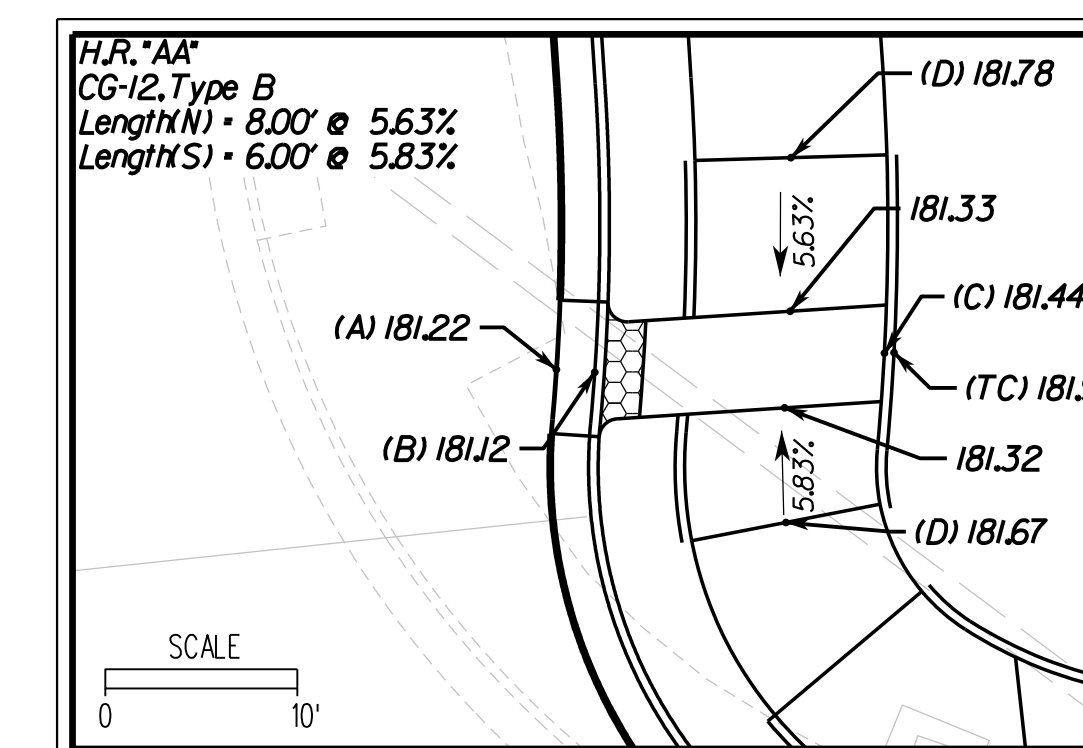
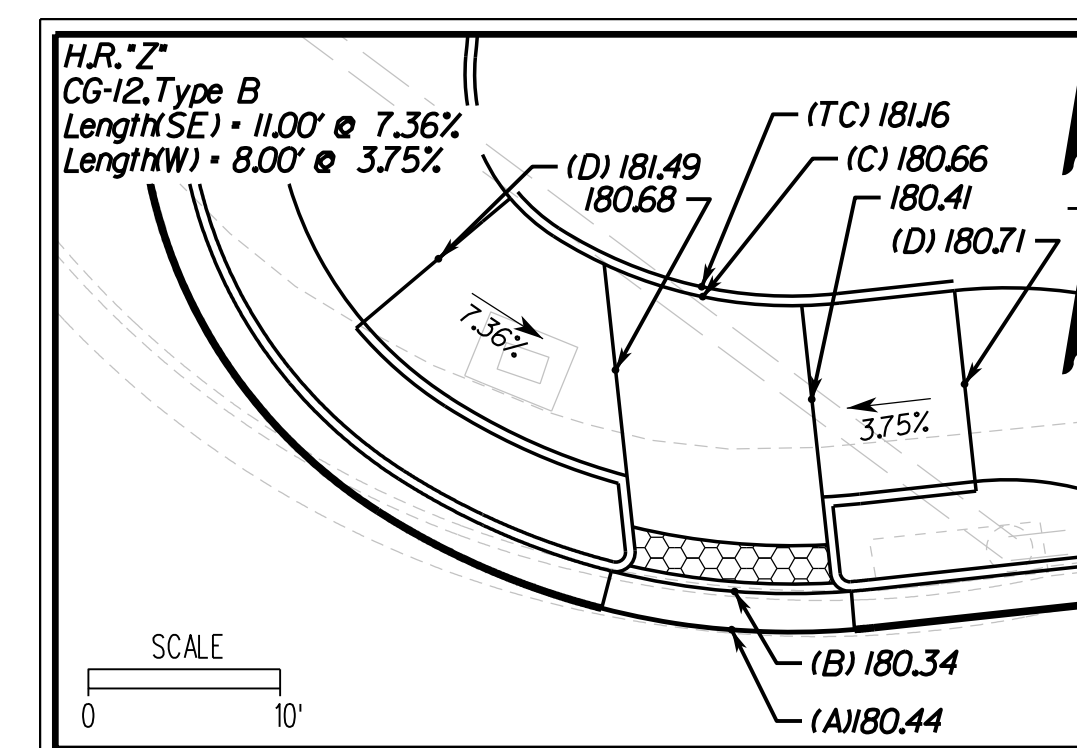
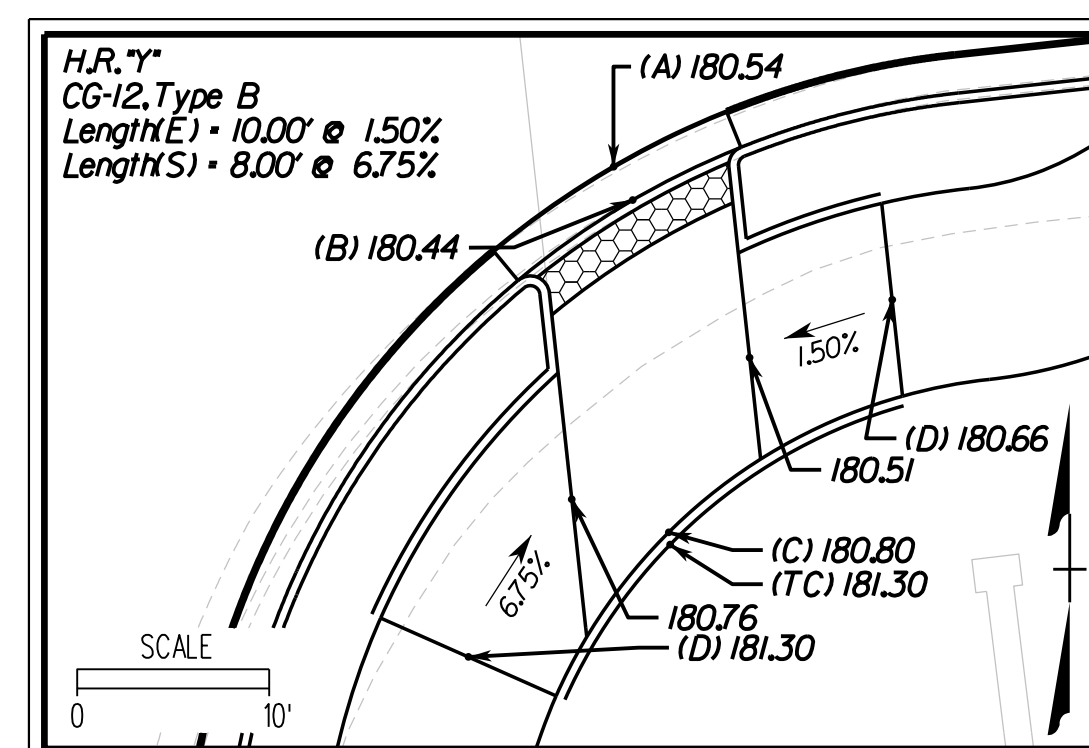
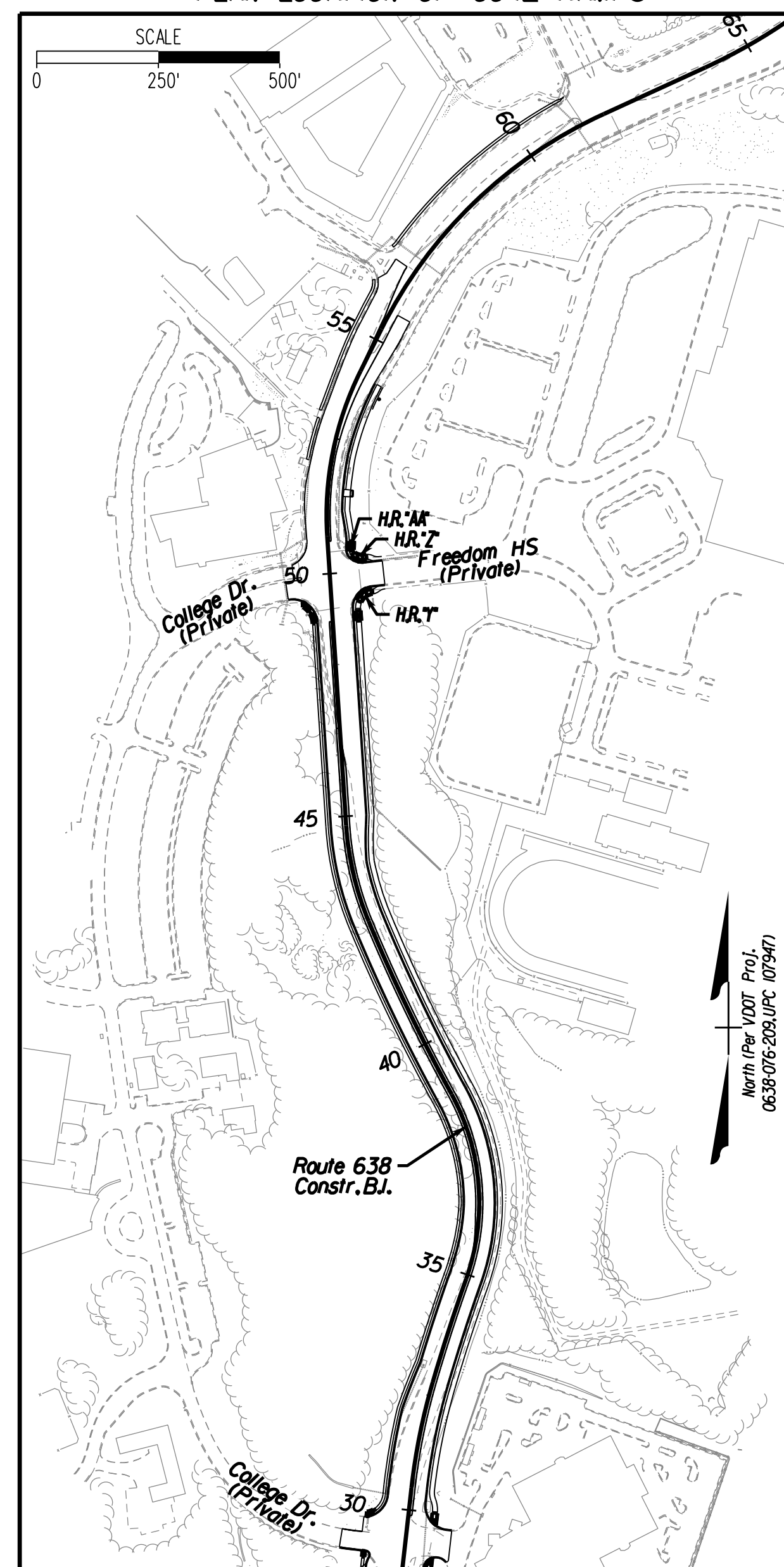
REVISED	STATE	ROUTE	STATE	VDOT PROJECT NO.	SHEET NO.
	VA.	638		0638-076-209 PE101 CS01 RW201	2G(2)

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
(Roadway)



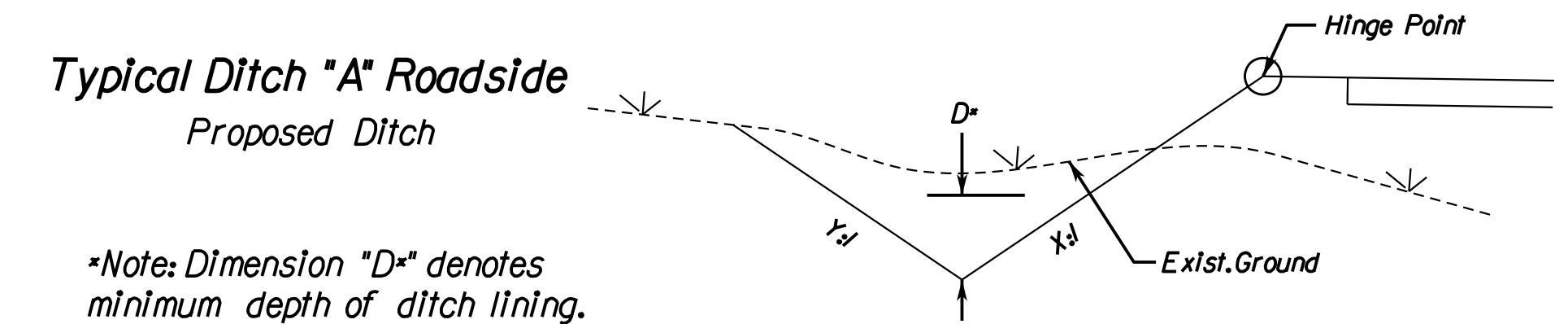
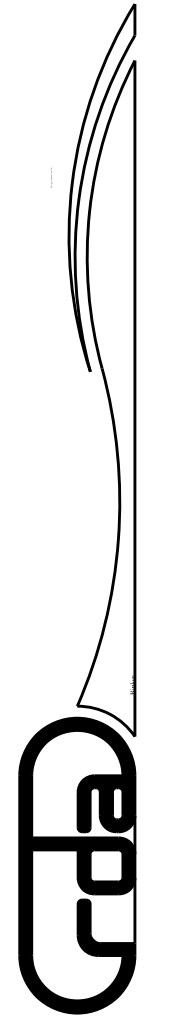
PLAN LOCATION OF CG-12 RAMPS



PROJECT MANAGER PWCDOT: Khattab, Shamout, P.E.: (703) 792-7193
SURVEYED BY, DATE RDA: Ryan Dreel'a, L.S. (703) 334-9302, July 3, 2017
DESIGN BY RDA: Mack, A. Gunn, P.E. (703) 334-9288
SUBSURFACE UTILITY BY, DATE Accurmark (703) 378-0100, August 1, 2017

Ditch Typicals

REVISED	STATE	ROUTE	STATE	VDOT PROJECT NO.	SHEET NO.
	VA.	638		0638-076-209 PE101 CS01 RW201	2J
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 (Hydraulics)					



Typical Ditch "A" Median							
Rt. 638	Station	to	Station	D* (ft)	Y (ft)	X (ft)	Lining
Right	13+17	to	13+69	-	2.0	3.0	N/A
	17+41	to	18+49	-	2.0	3.0	N/A
	18+49	to	19+60	-	2.0	3.0	N/A
	24+90	to	25+75	-	14.0	3.0	N/A
	25+75	to	26+75	-	12.0	3.0	N/A
	26+75	to	27+75	-	5.0	3.0	N/A
	27+75	to	28+75	-	6.0	3.0	N/A
	33+68	to	34+16	0.40	6.0	3.0	EC-2 Req'd
	34+16	to	35+15	0.40	4.0	3.0	EC-2 Req'd
	35+15	to	36+04	0.45	2.0	3.0	EC-2 Req'd
Left	36+04	to	38+71	0.40	3.0	3.0	EC-2 Req'd
	38+71	to	39+72	-	9.0	3.0	N/A
	39+72	to	40+73	-	3.0	3.0	N/A
	22+25	to	23+21	0.30	3.0	3.0	EC-2 Req'd
	24+03	to	26+84	0.40	3.0	3.0	EC-2 Req'd
	26+84	to	27+84	-	3.0	3.0	N/A

PROJECT MANAGER: EWCDOT - Khattab, Shammout, P.E. (703) 792-7193
SURVEYED BY, DATE: RDA: Bryan Dreel/a LS (703) 334-9302, July 3, 2017
DESIGN BY: RDA: Mack, A. Gunn, P.E. (703) 334-9288
SUBSURFACE UTILITY BY, DATE: Accurmark (703) 378-0100, August 1, 2017

REVISED	STATE	ROUTE	STATE	VDOT PROJECT NO.	SHEET NO.
	VA.	638		0638-076-209 PE101 CS01 RW201	2K

Drainage Descriptions

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
(Hydraulics)

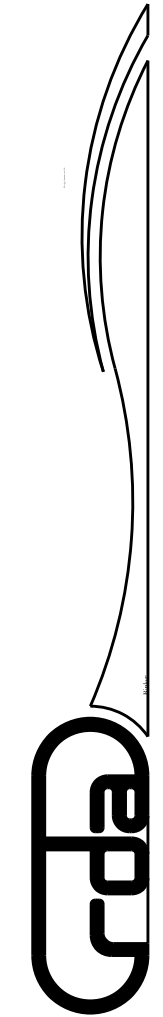
Sheet 3

- EX5 to 3-1 EXISTING PIPE TO BE EXTENDED WITH 17'-18" CONCRETE PIPE (4' COVER) INV.(IN) 15.30 INV.(OUT) 14.89
- 3-1 6.0 LF STD.MH-1 OR 2 REQ'D. 1 STD.MH-1 FRAME & COVER REQ'D. INV.-13.18 ST'D.IS-1 REQ'D. ST'D.ST-1 REQ'D.
- 3-1 to EX3 56'-36" EXISTING CONCRETE PIPE (4' COVER) INV.(IN) 13.18 INV.(OUT) 13.56
- 3-2 1 ST'D.DI-3C REQ'D. L-12' H-5.2' INV.-14.90 ST'D.IS-1 REQ'D. ST'D.ST-1 REQ'D. CONNECT UD-4 to DI
- 3-2 to 3-3 33'-18" STORM SEWER PIPE REQ'D.(4' COVER) INV.(IN) 14.90 INV.(OUT) 14.00
- 3-3 1 ST'D.DI-4B REQ'D. L-6 H-5.8' INV.-13.90 ST'D.IS-1 REQ'D. ST'D.ST-1 REQ'D. CONNECT UD-4 to DI
- 3-3 to 3-1 54'-36" STORM SEWER PIPE REQ'D.(3' COVER) INV.(IN) 13.90 INV.(OUT) 13.57
- 3-4 1 ST'D.DI-4C REQ'D. L-12' H-5.4' INV.-14.15 ST'D.IS-1 REQ'D. ST'D.ST-1 REQ'D. CONNECT UD-4 to DI CONNECT CD-2 to DI
- 3-4 to 3-3 27'-36" STORM SEWER PIPE REQ'D.(3' COVER) INV.(IN) 14.15 INV.(OUT) 14.00
- 3-5 1 ST'D.DI-3B REQ'D. L-8' H-4.4' INV.-15.90 ST'D.IS-1 REQ'D. ST'D.ST-1 REQ'D. CONNECT UD-4 to DI
- 3-5 to 3-2 58'-18" STORM SEWER PIPE REQ'D.(4' COVER) INV.(IN) 15.90 INV.(OUT) 15.00
- 3-6 1 ST'D.DI-4B REQ'D. L-6' H-5.1' INV.-14.80 ST'D.IS-1 REQ'D. ST'D.ST-1 REQ'D. CONNECT UD-4 to DI
- 3-6 to 3-4 91'-36" STORM SEWER PIPE REQ'D.(3' COVER) INV.(IN) 14.80 INV.(OUT) 14.25
- 3-7 REPLACEMENT SWM CONTROL STRUCTURE TO BE MAINTAINED BY PROPERTY OWNER TOP-25.20' WEIR WALL-22.80' WEIR NOTCH-21.25 5 - 0.5" ORIFICES REQ'D.ELEV - 17.30 H-8.7', W-8', D-8' PROVIDE 8'X4' SLOT OPENING INV IN (48") 17.30 INV.OUT (18") 16.50 SEE SHEET 2M FOR TYPICAL
- 3-7 to 3-6 31'-18" STORM SEWER PIPE REQ'D.(18' COVER) INV.(IN) 16.50 INV.(OUT) 15.00

- 3-8 1 ST'D.DI-3B REQ'D. L-4' H-4.0' INV.-16.20 ST'D.IS-1 REQ'D. CONNECT UD-4 to DI
- 3-8 to 3-2 20'-15" STORM SEWER PIPE REQ'D.(4' COVER) INV.(IN) 16.20 INV.(OUT) 15.00
- 3-9 1 ST'D.DI-4B REQ'D. L-10' H-7.1' INV.-15.90 ST'D.IS-1 REQ'D. ST'D.ST-1 REQ'D. CONNECT UD-4 to DI
- 3-9 to 3-6 113'-36" STORM SEWER PIPE REQ'D.(4' COVER) INV.(IN) 15.90 INV.(OUT) 14.90
- 3-10 1 ST'D.DI-4BB REQ'D. L-10' H-9.8' INV.-18.00 ST'D.IS-1 REQ'D. ST'D.ST-1 REQ'D. CONNECT UD-4 to DI
- 3-10 to 3-9 110'-36" STORM SEWER PIPE REQ'D.(7' COVER) INV.(IN) 18.00 INV.(OUT) 17.10
- 3-11 1 ST'D.DI-3B REQ'D. L-4' H-4.0' INV.-21.75 ST'D.IS-1 REQ'D. CONNECT UD-4 to DI
- 3-11 to 3-14 41'-15" STORM SEWER PIPE REQ'D.(3' COVER) INV.(IN) 21.75 INV.(OUT) 19.75
- 3-12 1 ST'D.DI-3B REQ'D. L-8' H-4.9' INV.-16.50 ST'D.IS-1 REQ'D. ST'D.ST-1 REQ'D. CONNECT UD-4 to DI
- 3-12 to 3-5 84'-15" STORM SEWER PIPE REQ'D.(4' COVER) INV.(IN) 16.50 INV.(OUT) 16.00
- 3-13 1 ST'D.DI-5 REQ'D.TYPE III GRATE REQ'D. ST'D.PG-2A TYPE CI COVER H- 5.0', INV.- 14.70 ST'D.ST-1 REQ'D.
- 3-13 to 3-4 14'-18" STORM SEWER PIPE REQ'D.(4' COVER) INV.(IN) 14.70 INV.(OUT) 14.25
- 3-14 1 ST'D.DI-3B REQ'D. L-6' H-4.8' INV.-19.65 ST'D.IS-1 REQ'D. ST'D.ST-1 REQ'D. CONNECT UD-4 to DI
- 3-14 to 3-12 108'-15" STORM SEWER PIPE REQ'D.(4' COVER) INV.(IN) 19.65 INV.(OUT) 16.60
- 3-15 1 ST'D.DI-5 REQ'D.TYPE III GRATE REQ'D. ST'D.PG-2A TYPE CI COVER H- 6.5', INV.- 21.25 ST'D.ST-1 REQ'D.
- 3-15 to 3-10 14'-15" STORM SEWER PIPE REQ'D.(16' COVER) INV.(IN) 21.25 INV.(OUT) 20.75
- Sheet 4
- EX37 to 4-6 60'-15" EXISTING CONCRETE PIPE (33' COVER) INV.(IN) 60.85 INV.(OUT) 52.32

- 4-1 1 ST'D.DI-4BB REQ'D. L-12' H-12.3' INV.-22.00 ST'D.IS-1 REQ'D. ST'D.ST-1 REQ'D. ST'D.SL-1 REQ'D. CONNECT UD-4 to DI 0.5" STEEL PLATE REQ'D.AT INVERT
- 4-1 to 3-10 108'-36" STORM SEWER PIPE REQ'D.(9' COVER) INV.(IN) 22.00 INV.(OUT) 20.75
- 4-2 1 ST'D.DI-1 H-4.8' INV.-43.20 ST'D.ST-1 REQ'D.
- 4-2 to 4-4 23'-15" STORM SEWER PIPE REQ'D.(4' COVER) INV.(IN) 43.20 INV.(OUT) 42.00
- 4-3 1 ST'D.DI-3B REQ'D. L-12' H-4.9' INV.-43.10 ST'D.ST-1 REQ'D. CONNECT UD-4 to DI
- 4-3 to 4-4 68'-15" STORM SEWER PIPE REQ'D.(4' COVER) INV.(IN) 43.10 INV.(OUT) 42.00
- 4-4 1 ST'D.DI-4BB REQ'D. L-8' H-16.5' INV.-30.50 ST'D.IS-1 REQ'D. ST'D.ST-1 REQ'D. CONNECT UD-4 to DI 0.5" STEEL PLATE REQ'D.AT INVERT
- 4-4 to 4-1 194'-36" STORM SEWER PIPE REQ'D.(14' COVER) INV.(IN) 30.50 INV.(OUT) 28.40
- 4-5 1 ST'D.DI-3BB REQ'D. L-12' H-13.2' INV.-42.25 ST'D.IS-1 REQ'D. ST'D.ST-1 REQ'D. ST'D.SL-1 REQ'D. CONNECT UD-4 to DI 0.5" STEEL PLATE REQ'D.AT INVERT
- 4-5 to 4-4 103'-30" STORM SEWER PIPE REQ'D.(11' COVER) INV.(IN) 42.25 INV.(OUT) 41.00
- 4-6 4.5 LF STD.MH-1 OR 2 REQ'D. 1 STD.MH-1 FRAME & COVER REQ'D. INV.-50.43 ST'D.IS-1 REQ'D. ST'D.ST-1 REQ'D.
- 4-6 to 4-5 19'-24" STORM SEWER PIPE REQ'D.(4' COVER) INV.(IN) 50.43 INV.(OUT) 50.15
- 4-7 1 ST'D.DI-3B REQ'D. L-10' H-6.4' INV.-52.90 ST'D.IS-1 REQ'D. ST'D.ST-1 REQ'D. CONNECT UD-4 to DI
- 4-7 to 4-5 80'-15" STORM SEWER PIPE REQ'D.(15' COVER) INV.(IN) 52.90 INV.(OUT) 50.50
- 4-8 1 ST'D.DI-3BB REQ'D. L-8' H-13.9' INV.-66.25 ST'D.IS-1 REQ'D. ST'D.ST-1 REQ'D. ST'D.SL-1 REQ'D. CONNECT UD-4 to DI 0.5" STEEL PLATE REQ'D.AT INVERT
- 4-8 to 4-10 130'-15" STORM SEWER PIPE REQ'D.(13' COVER) INV.(IN) 66.25 INV.(OUT) 62.75

- 4-9 1 ST'D.DI-3B REQ'D. L-8' H-7.0' INV.-71.40 ST'D.IS-1 REQ'D. ST'D.ST-1 REQ'D. CONNECT UD-4 to DI
- 4-9 to 4-11 39'-15" STORM SEWER PIPE REQ'D.(10' COVER) INV.(IN) 71.40 INV.(OUT) 71.00
- 4-10 1 ST'D.DI-3BB REQ'D. L-6' H-14.7' INV.-53.00 ST'D.IS-1 REQ'D. ST'D.ST-1 REQ'D. ST'D.SL-1 REQ'D. CONNECT UD-4 to DI 0.5" STEEL PLATE REQ'D.AT INVERT
- 4-10 to 4-5 125'-18" STORM SEWER PIPE REQ'D.(13' COVER) INV.(IN) 53.00 INV.(OUT) 50.00
- 4-11 1 ST'D.DI-3BB REQ'D. L-8' H-10.9' INV.-70.90 ST'D.IS-1 REQ'D. ST'D.ST-1 REQ'D. CONNECT UD-4 to DI 0.5" STEEL PLATE REQ'D.AT INVERT
- 4-11 to 4-8 49'-15" STORM SEWER PIPE REQ'D.(10' COVER) INV.(IN) 70.90 INV.(OUT) 70.10
- 4-12 1 ST'D.DI-5 REQ'D.TYPE III GRATE REQ'D. ST'D.PG-2A TYPE CI COVER H- 7.3', INV.- 71.90 ST'D.ST-1 REQ'D.
- 4-12 to 4-9 11'-15" STORM SEWER PIPE REQ'D.(7' COVER) INV.(IN) 71.90 INV.(OUT) 71.50
- 4-13 1 ST'D.DI-5 REQ'D.TYPE III GRATE REQ'D. ST'D.PG-2A TYPE CI COVER H- 7.4', INV.- 53.30 ST'D.ST-1 REQ'D.
- 4-13 to 4-7 18'-15" STORM SEWER PIPE REQ'D.(16' COVER) INV.(IN) 53.30 INV.(OUT) 53.00
- Sheet 5
- 5-1 1 ST'D.DI-3BB REQ'D. L-16' H-11.8' INV.-112.00 ST'D.IS-1 REQ'D. ST'D.ST-1 REQ'D. CONNECT UD-4 to DI 0.5" STEEL PLATE REQ'D.AT INVERT
- 5-1 to 5-4 146'-30" STORM SEWER PIPE REQ'D.(10' COVER) INV.(IN) 112.00 INV.(OUT) 110.25
- 5-2 1 ST'D.DI-3B REQ'D. L-8' H-4.9' INV.-118.50 ST'D.ST-1 REQ'D. CONNECT UD-4 to DI
- 5-2 to 5-1 33'-15" STORM SEWER PIPE REQ'D.(15' COVER) INV.(IN) 118.50 INV.(OUT) 118.00



PROJECT MANAGER PWC DOT - Khattab, Shamouh, P.E. : (703) 792-7193
SURVEYED BY, DATE RDA: Bryan Dreel/a.L.S (703) 334-9302, July 3, 2017
DESIGN BY RDA: Mack, A.Gunn, P.E. (703) 334-9288
SUBSURFACE UTILITY BY, DATE Accurmark (703) 378-0100, August 1, 2017

REVISED	STATE	ROUTE	STATE	DDOT PROJECT NO.	SHEET NO.
	VA.	638		0638-076-209 PE101 CS01 RW201	2K(1)

Drainage Descriptions

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
(Hydraulics)

5-3 1 ST'D, DI-5 REQ'D, TYPE III GRATE REQ'D.
ST'D, PG-2A TYPE A2 COVER
H+ 5.3', INV.- 81.40
ST'D, ST-1 REQ'D.

5-12 to 4-8 63'-15" STORM SEWER PIPE REQ'D, (7' COVER)
INV (IN) 77.50 INV (OUT) 75.50

6-9 1 ST'D, DI-3B REQ'D.
L+ 14' H+ 4.8' INV.-146.10
ST'D, ST-1 REQ'D.
CONNECT UD-4 to DI

5-3 to 5-12 14'-15" STORM SEWER PIPE REQ'D, (4' COVER)
INV (IN) 81.40 INV (OUT) 81.00

Sheet 6

6-9 to 6-6 39'-15" STORM SEWER PIPE REQ'D, (4' COVER)
INV (IN) 146.10 INV (OUT) 144.00

7-5 to 7-4 38'-15" STORM SEWER PIPE REQ'D, (4' COVER)
INV (IN) 171.60 INV (OUT) 171.00

5-4 1 ST'D, DI-3B REQ'D.
L+ 4' H+ 5.4' INV.-110.15
ST'D, IS-1 REQ'D.
ST'D, ST-1 REQ'D.

6-1 1 ST'D, DI-3BB REQ'D.
L+ 12' H+ 10.5' INV.-120.75
ST'D, IS-1 REQ'D.
ST'D, ST-1 REQ'D.
CONNECT UD-4 to DI
0.5" STEEL PLATE REQ'D, AT INVERT

6-10 1 ST'D, DI-3BB REQ'D.
L+ 8' H+ 13.8' INV.-146.30
ST'D, IS-1 REQ'D.
ST'D, ST-1 REQ'D.
ST'D, SL-1 REQ'D.
CONNECT UD-4 to DI
CONNECT CD-1 to DI
0.5" STEEL PLATE REQ'D, AT INVERT

7-6 1 ST'D, DI-3B REQ'D.
L+ 6' H+ 7.6' INV.-170.10
ST'D, IS-1 REQ'D.
ST'D, ST-1 REQ'D.
CONNECT UD-4 to DI
CONNECT CD-1 to DI

5-4 to 5-5 58'-30" STORM SEWER PIPE REQ'D, (3' COVER)
INV (IN) 110.15 INV (OUT) 109.45

6-1 to 5-1 194'-30" STORM SEWER PIPE REQ'D, (8' COVER)
INV (IN) 120.75 INV (OUT) 118.50

6-10 to 6-6 148'-24" STORM SEWER PIPE REQ'D, (12' COVER)
INV (IN) 146.30 INV (OUT) 144.00

7-6 to 7-4 177'-24" STORM SEWER PIPE REQ'D, (7' Cover)
INV (IN) 170.10 INV (OUT) 167.10

5-5 1 ST'D, DI-3B REQ'D.
L+ 6' H+ 5.6' INV.-109.25
ST'D, IS-1 REQ'D.
ST'D, ST-1 REQ'D.
CONNECT UD-4 to DI

6-2 1 ST'D, DI-3B REQ'D.
L+ 6' H+ 7.0' INV.-128.00
ST'D, IS-1 REQ'D.
ST'D, ST-1 REQ'D.
CONNECT UD-4 to DI

6-11 1 ST'D, DI-5 REQ'D, TYPE III GRATE REQ'D.
ST'D, PG-2A TYPE A2 COVER
H+ 5.1', INV.- 128.50
ST'D, ST-1 REQ'D.

Sheet 8

5-5 to 5-6 26'-30" STORM SEWER PIPE REQ'D, (3' COVER)
INV (IN) 109.25 INV (OUT) 109.00

6-2 to 6-1 154'-30" STORM SEWER PIPE REQ'D, (15' COVER)
INV (IN) 128.00 INV (OUT) 126.00

6-11 to 6-2 49'-15" STORM SEWER PIPE REQ'D, (6' COVER)
INV (IN) 128.50 INV (OUT) 128.00

EX60 MODIFY EXISTING STORM INLET
ADJUST TO GRADE, RAISE 10'
REMOVE EXISTING 15" INFLOW PIPE
ADD DI-3B, L+ 8'
PROPOSED TOP ELEV = 180.70'

5-6 1 ST'D, ES-1 (30") REQ'D.
INV.-109.00
13 SQ YD, EC-I, CLASS I REQ'D, TYPE A INSTALLATION

6-3 1 ST'D, DI-3B REQ'D.
L+ 12' H+ 4.8' INV.-136.25
ST'D, ST-1 REQ'D.
CONNECT UD-4 to DI

Sheet 7

5-7 10.7' ST'D, SWM-1 REQ'D
TOP ELEV = 107.70
BOTTOM ELEV = 97.00
0.67' X 3.05' WEIR ELEV = 104.65
2" LOW FLOW ORIFICE = 101.00
INV (OUT) = 100.75
SEE SHEET 2M(2) FOR TYPICAL

6-3 to 6-5 49'-15" STORM SEWER PIPE REQ'D, (4' COVER)
INV (IN) 136.25 INV (OUT) 133.70

7-1 1 ST'D, DI-3BB REQ'D.
L+ 8' H+ 12.1' INV.-157.60
ST'D, IS-1 REQ'D.
ST'D, ST-1 REQ'D.
ST'D, SL-1 REQ'D.
CONNECT UD-4 to DI
0.5" STEEL PLATE REQ'D, AT INVERT

8-1 1 ST'D, DI-3B REQ'D.
L+ 4' H+ 7.1' INV.-174.10
ST'D, IS-1 REQ'D.
ST'D, ST-1 REQ'D.
CONNECT UD-4 to DI

5-7 to 5-8 122'-30" STORM SEWER PIPE REQ'D, (15' COVER)
LEAK RESISTANT JOINT TYPE
INV (IN) 100.75 INV (OUT) 97.09
122' CONCRETE CRADLE
PIPE-SPEC. SECTION 232 (AASHTO M170)
GASKET-SPEC. SECTION 212 (ASTM C443)

6-4 1 ST'D, DI-3B REQ'D.
L+ 10' H+ 6.1' INV.-131.23
ST'D, ST-1 REQ'D.
CONNECT UD-4 to DI

7-1 to 6-10 148'-24" STORM SEWER PIPE REQ'D, (10' COVER)
INV (IN) 157.60 INV (OUT) 155.25

8-1 to 8-7 257'-24" STORM SEWER PIPE REQ'D, (6' COVER)
INV (IN) 174.10 INV (OUT) 172.50

5-8 1 ST'D, ES-1 (30") REQ'D.
INV.-97.09
63 TONS ST'D, EC-I CLASS I REQ'D, TYPE B INSTALLATION

6-4 to 6-2 71'-15" STORM SEWER PIPE REQ'D, (15' COVER)
INV (IN) 131.23 INV (OUT) 130.25

7-2 1 ST'D, DI-3B REQ'D.
L+ 12' H+ 4.9' INV.-175.00
ST'D, ST-1 REQ'D.
CONNECT UD-4 to DI
CONNECT CD-1 to DI

8-2 1 ST'D, DI-3C REQ'D.
L+ 6' H+ 6.6' INV.-174.50
ST'D, IS-1 REQ'D.
ST'D, ST-1 REQ'D.
CONNECT UD-4 to DI
CONNECT CD-2 to DI

5-9 1 ST'D, DI-3B REQ'D.
L+ 18' H+ 5.0' INV.-96.75
ST'D, ST-1 REQ'D.
CONNECT UD-4 to DI

6-5 1 ST'D, DI-3B REQ'D.
L+ 8' H+ 6.8' INV.-131.75
ST'D, IS-1 REQ'D.
ST'D, ST-1 REQ'D.
CONNECT UD-4 to DI

7-2 to 7-6 41'-15" STORM SEWER PIPE REQ'D, (4' COVER)
INV (IN) 175.00 INV (OUT) 172.80

8-2 to 8-1 53'-24" STORM SEWER PIPE REQ'D, (15' COVER)
INV (IN) 174.50 INV (OUT) 174.20

5-9 to 5-11 137'-15" STORM SEWER PIPE REQ'D, (4' COVER)
INV (IN) 96.75 INV (OUT) 85.73

6-6 1 ST'D, DI-3BB REQ'D.
L+ 8' H+ 12.4' INV.-136.40
ST'D, IS-1 REQ'D.
ST'D, ST-1 REQ'D.
ST'D, SL-1 REQ'D.
CONNECT UD-4 to DI
0.5" STEEL PLATE REQ'D, AT INVERT

7-3 1 ST'D, DI-3B REQ'D.
L+ 8' H+ 7.2' INV.-162.75
ST'D, IS-1 REQ'D.
ST'D, ST-1 REQ'D.
CONNECT UD-4 to DI

8-3 1 ST'D, DI-3B REQ'D.
L+ 6' H+ 6.2' INV.-175.40
ST'D, IS-1 REQ'D.
ST'D, ST-1 REQ'D.
CONNECT UD-4 to DI

5-10 1 ST'D, DI-3BB REQ'D.
L+ 14' H+ 8.8' INV.-91.50
ST'D, ST-1 REQ'D.
CONNECT UD-4 to DI

6-6 to 6-5 180'-24" STORM SEWER PIPE REQ'D, (10' COVER)
INV (IN) 136.40 INV (OUT) 133.75

7-3 to 7-1 67'-24" STORM SEWER PIPE REQ'D, (6' COVER)
INV (IN) 162.75 INV (OUT) 162.20

8-3 to 8-2 160'-24" STORM SEWER PIPE REQ'D, (15' COVER)
INV (IN) 175.40 INV (OUT) 174.60

5-10 to 5-12 183'-15" STORM SEWER PIPE REQ'D, (8' COVER)
INV (IN) 91.50 INV (OUT) 81.10

6-7 1 ST'D, DI-3B REQ'D.
L+ 6' H+ 4.9' INV.-129.90
ST'D, IS-1 REQ'D.
ST'D, ST-1 REQ'D.
CONNECT UD-4 to DI

7-4 1 ST'D, DI-3BB REQ'D.
L+ 6' H+ 9.3' INV.-166.60
ST'D, IS-1 REQ'D.
ST'D, ST-1 REQ'D.
CONNECT UD-4 to DI
0.5" STEEL PLATE REQ'D, AT INVERT

8-4 1 ST'D, DI-3B REQ'D.
L+ 12' H+ 4.9' INV.-177.50
ST'D, ST-1 REQ'D.
CONNECT UD-4 to DI

5-11 1 ST'D, DI-3B REQ'D.
L+ 12' H+ 5.4' INV.-85.63
ST'D, IS-1 REQ'D.
ST'D, ST-1 REQ'D.
CONNECT UD-4 to DI

6-7 to 6-2 43'-24" STORM SEWER PIPE REQ'D, (4' COVER)
INV (IN) 129.90 INV (OUT) 129.30

7-4 to 7-3 221'-24" STORM SEWER PIPE REQ'D, (8' COVER)
INV (IN) 166.60 INV (OUT) 162.85

8-4 to 8-3 34'-15" STORM SEWER PIPE REQ'D, (4' COVER)
INV (IN) 177.50 INV (OUT) 176.75

5-11 to 4-11 107'-15" STORM SEWER PIPE REQ'D, (4' COVER)
INV (IN) 85.63 INV (OUT) 77.00

6-8 1 ST'D, DI-3B REQ'D.
L+ 8' H+ 4.8' INV.-125.90
ST'D, ST-1 REQ'D.
CONNECT UD-4 to DI

7-5 1 ST'D, DI-3B REQ'D.
L+ 12' H+ 4.9' INV.-171.60
ST'D, ST-1 REQ'D.
CONNECT UD-4 to DI

8-5 1 ST'D, DI-3B REQ'D.
L+ 4' H+ 5.7' INV.-176.20
ST'D, IS-1 REQ'D.
ST'D, ST-1 REQ'D.
CONNECT UD-4 to DI

5-12 1 ST'D, DI-3BB REQ'D.
L+ 12' H+ 8.3' INV.-77.50
ST'D, IS-1 REQ'D.
ST'D, ST-1 REQ'D.
CONNECT UD-4 to DI

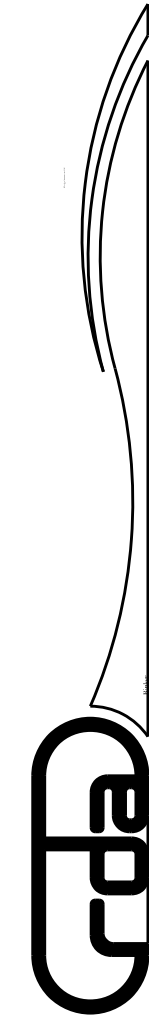
6-8 to 6-1 35'-15" STORM SEWER PIPE REQ'D, (15' COVER)
INV (IN) 125.90 INV (OUT) 125.50

8-5 to 8-3 122'-18" STORM SEWER PIPE REQ'D, (15' COVER)
INV (IN) 176.20 INV (OUT) 175.50

VDOT PROJECT NO. 0638-076-209 PWCDOT PROJECT NO. SPR2018-00271	SHEET NO. 2K(1)
---	--------------------

THESE PLANS ARE UNFINISHED AND UNAPPROVED AND ARE NOT TO BE USED FOR ANY TYPE OF CONSTRUCTION.

R/W PHASE PLANS



PROJECT MANAGER: *EWCDOT - Khattab, Shamout, P.E. (703) 792-7193*
 SURVEYED BY, DATE: *RDA: Bryan Dreel/LS (703) 334-9302, July 3, 2017*
 DESIGN BY: *RDA: Mack & Gunn, P.E. (703) 334-9288*
 SUBSURFACE UTILITY BY, DATE: *Accurmark (703) 378-0100, August 1, 2017*

Drainage Descriptions

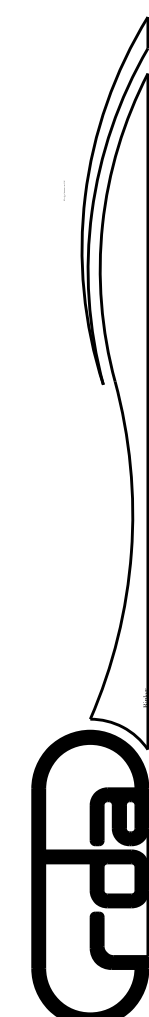
REVISED	STATE	STATE		SHEET NO.
	ROUTE	VDOT PROJECT NO.		
	VA.	638	0638-076-209 PE101 CS01 RW201	2K12)
DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT				
Rinker Design Assoc., P.C. Fredericksburg, Virginia (Hydraulics)				

ALLOWABLE STORM SEWER PIPE

ALLOWABLE TYPE OF STORM SEWER PIPE (UNLESS OTHERWISE SHOWN ON PLANS)
 (SEE ROAD AND BRIDGE STANDARDS 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
NEABSCO MILLS ROAD	x	-	-	x	-	x	x	x

- 8-6 1 ST'D, DI-3B REQ'D.
L-4' H-7.4' INV.-173.40
ST'D, IS-1 REQ'D.
ST'D, ST-1 REQ'D.
CONNECT UD-4 to DI
- 8-6 to 8-7 78'-15" STORM SEWER PIPE REQ'D. (7' COVER)
INV. (IN) 173.40 INV. (OUT) 172.50
- 8-7 1 ST'D, DI-3B REQ'D.
L-8' H-7.8' INV.-172.40
ST'D, IS-1 REQ'D.
ST'D, ST-1 REQ'D.
CONNECT UD-4 to DI
- 8-7 to 7-6 162'-24" STORM SEWER PIPE REQ'D. (16' COVER)
INV. (IN) 172.40 INV. (OUT) 170.20
- 8-8 1 ST'D, DI-3B REQ'D.
L-4' H-7.3' INV.-174.10
ST'D, ST-1 REQ'D.
CONNECT UD-4 to DI
- 8-8 to 8-6 85'-15" STORM SEWER PIPE REQ'D. (16' COVER)
INV. (IN) 174.10 INV. (OUT) 173.50
- 8-9 1 ST'D, DI-3C REQ'D.
L-6' H-4.7' INV.-176.64
ST'D, ST-1 REQ'D.
CONNECT UD-4 to DI
- 8-9 to 8-10 53'-15" STORM SEWER PIPE REQ'D. (15' COVER)
INV. (IN) 176.64 INV. (OUT) 175.60
- 8-10 1 ST'D, DI-3B REQ'D.
L-4' H-6.0' INV.-175.50
ST'D, ST-1 REQ'D.
CONNECT UD-4 to DI
- 8-10 to 8-8 158'-15" STORM SEWER PIPE REQ'D. (16' COVER)
INV. (IN) 175.50 INV. (OUT) 174.20
- Sheet 9
- 9-1 1 ST'D, DI-3B REQ'D.
L-8' H-4.9' INV.-176.90
ST'D, IS-1 REQ'D.
ST'D, ST-1 REQ'D.
CONNECT UD-4 to DI
- 9-1 to 8-5 116'-18" STORM SEWER PIPE REQ'D. (14' COVER)
INV. (IN) 176.90 INV. (OUT) 176.30
- 9-2 1 ST'D, DI-3B REQ'D.
L-14' H-5.7' INV.-178.10
ST'D, ST-1 REQ'D.
CONNECT UD-4 to DI
- 9-2 to 9-1 32'-15" STORM SEWER PIPE REQ'D. (15' COVER)
INV. (IN) 178.10 INV. (OUT) 177.00

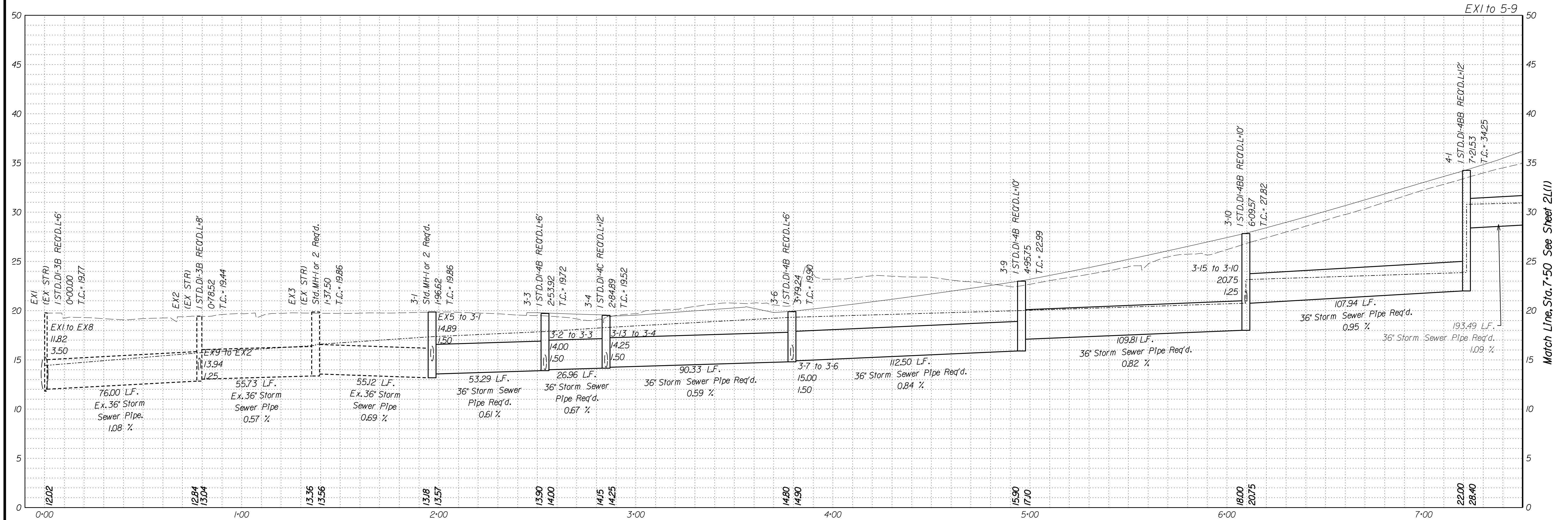


PROJECT MANAGER: EWCDOT - Khattab, Shammout, P.E. (703) 792-7193
SURVEYED BY, DATE: RDA: Bryan Drealla, LS (703) 334-9302, July 3, 2017
DESIGN BY: RDA: Mack, Gunn, P.E. (703) 334-9288
SUBSURFACE UTILITY BY, DATE: Accurack (703) 378-0100, August 1, 2017

Storm Sewer Profiles

REVISED	STATE	STATE	SHEET NO.
	ROUTE	VDOT PROJECT NO.	
	VA.	638	0638-076-209 PE/01 CS/01 RW/201
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 (Hydraulics)			

Rinker Design Associates, P.C.
 Civil Engineering, Surveying, Land Planning, Transportation, Environmental
 10000 Rinker Drive
 Fredericksburg, VA 22403
 Phone: (540) 371-1100
 Fax: (540) 371-1101



SCALE
V: 1"=5'
H: 1"=25'

Legend

- DENOTES PROP. GRADE
- - - DENOTES EX. GRADE
- DENOTES HGL
- - - DENOTES EX. STR. OR PIPE

VDOT PROJECT NO.
0638-076-209
PWCDOT PROJECT NO.
SPR2018-00271

SHEET NO.
2L

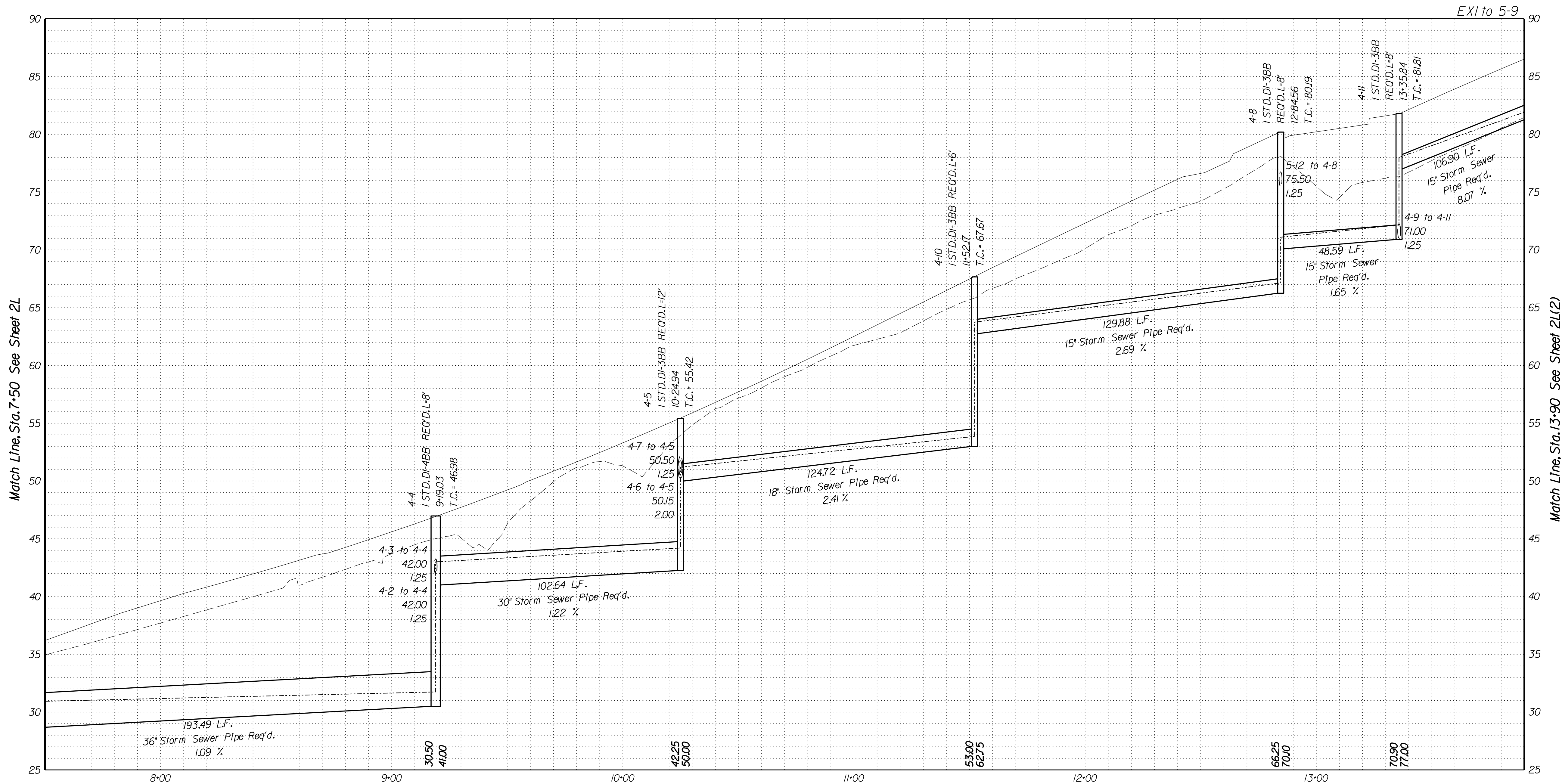
THESE PLANS ARE UNFINISHED AND UNAPPROVED AND ARE NOT TO BE USED FOR ANY TYPE OF CONSTRUCTION.

R/W PHASE PLANS

PROJECT MANAGER PWCDOT - Khattab, Shammout, P.E. : (703) 792-7193
SURVEYED BY, DATE RDA: Ryan Dreella, LS (703) 334-9302, July 3, 2017
DESIGN BY RDA: Mack, Gunn, P.E. (703) 334-9288
SUBSURFACE UTILITY BY, DATE Accurack (703) 378-0100, August 1, 2017

Storm Sewer Profiles

REVISED	STATE	STATE		SHEET NO.
	VA.	ROUTE	VDOT PROJECT NO.	
		638	0638-076-209 PE101 CS01 RW201	2L(1)
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 (Hydraulics)				



SCALE
V: 1"=5'
H: 1"=25'

Legend

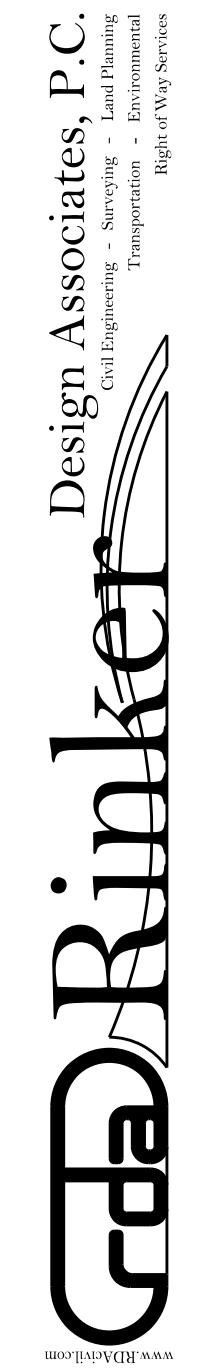
- DENOTES PROP. GRADE
- - - DENOTES EX. GRADE
- - - DENOTES HGL
- - - DENOTES EX. STR. OR PIPE

VDOT PROJECT NO. 0638-076-209
PWCDOT PROJECT NO. SPR2018-00271

SHEET NO. 2L(1)

THESE PLANS ARE UNFINISHED AND UNAPPROVED AND ARE NOT TO BE USED FOR ANY TYPE OF CONSTRUCTION.

R/W PHASE PLANS



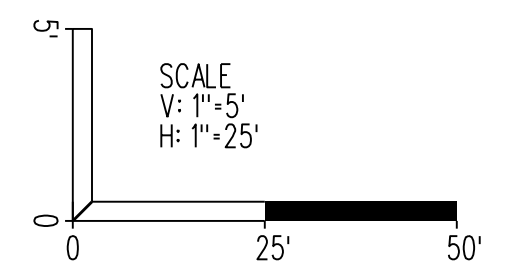
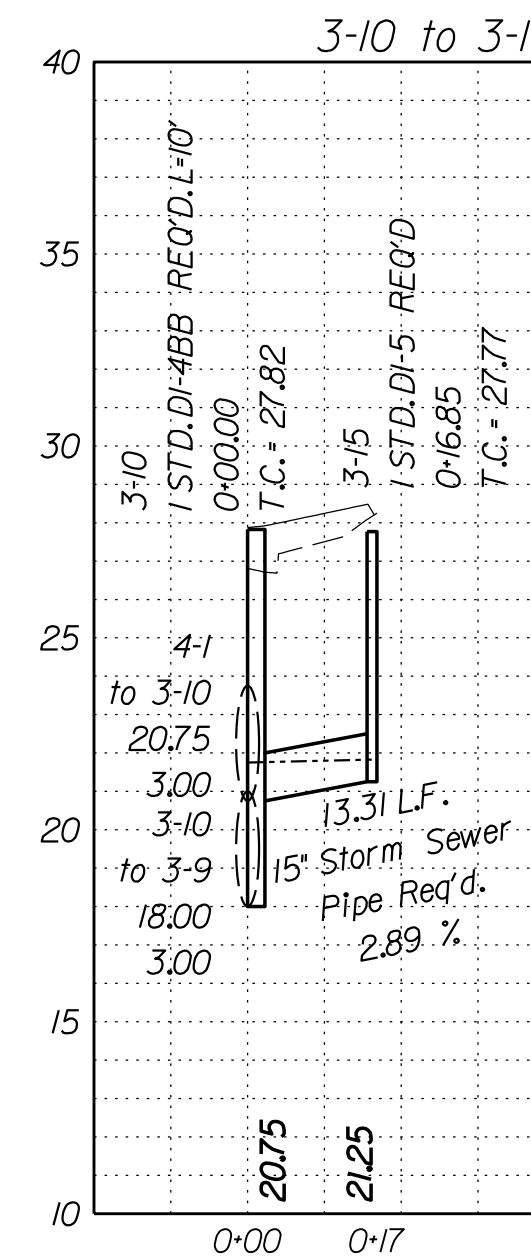
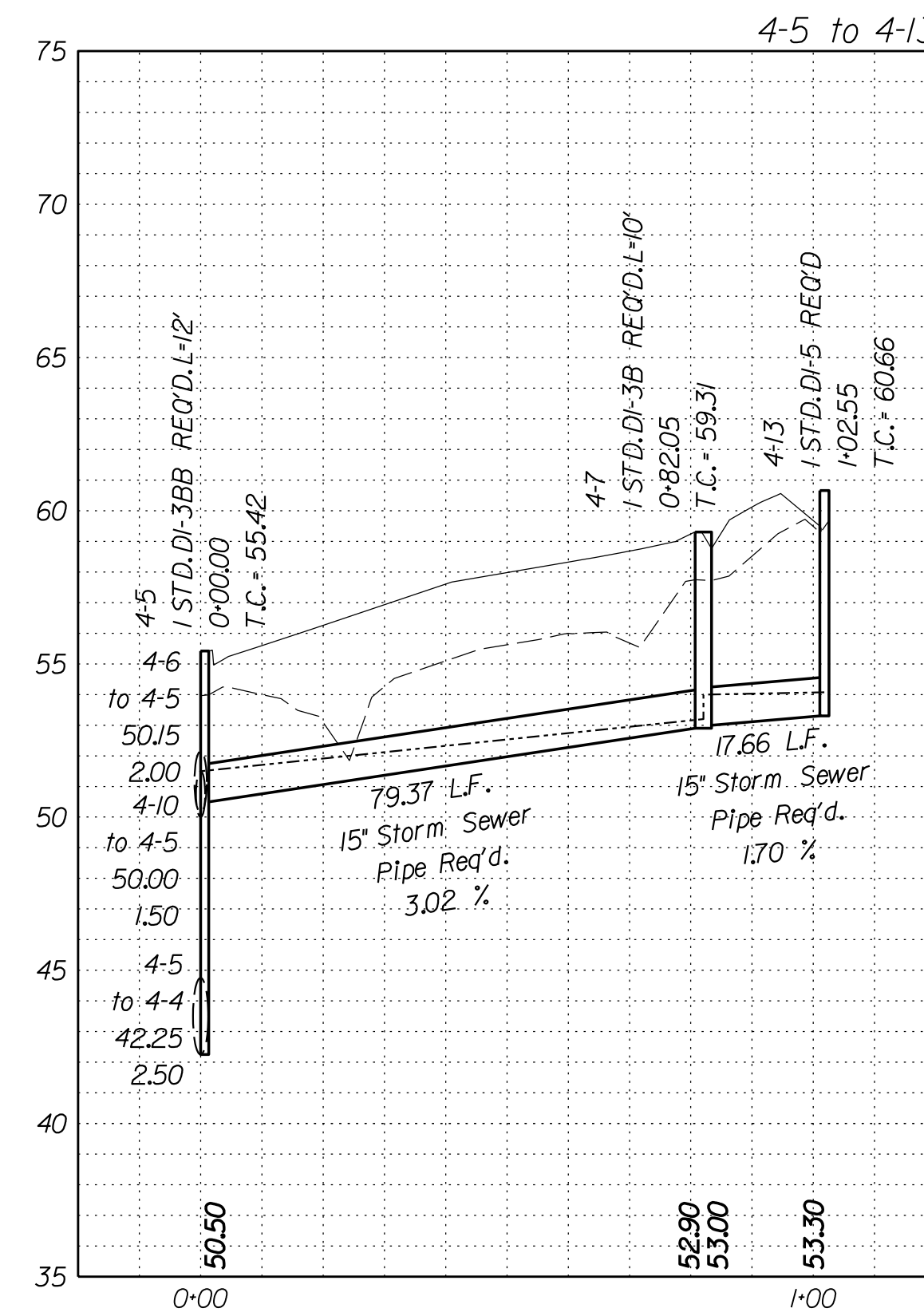
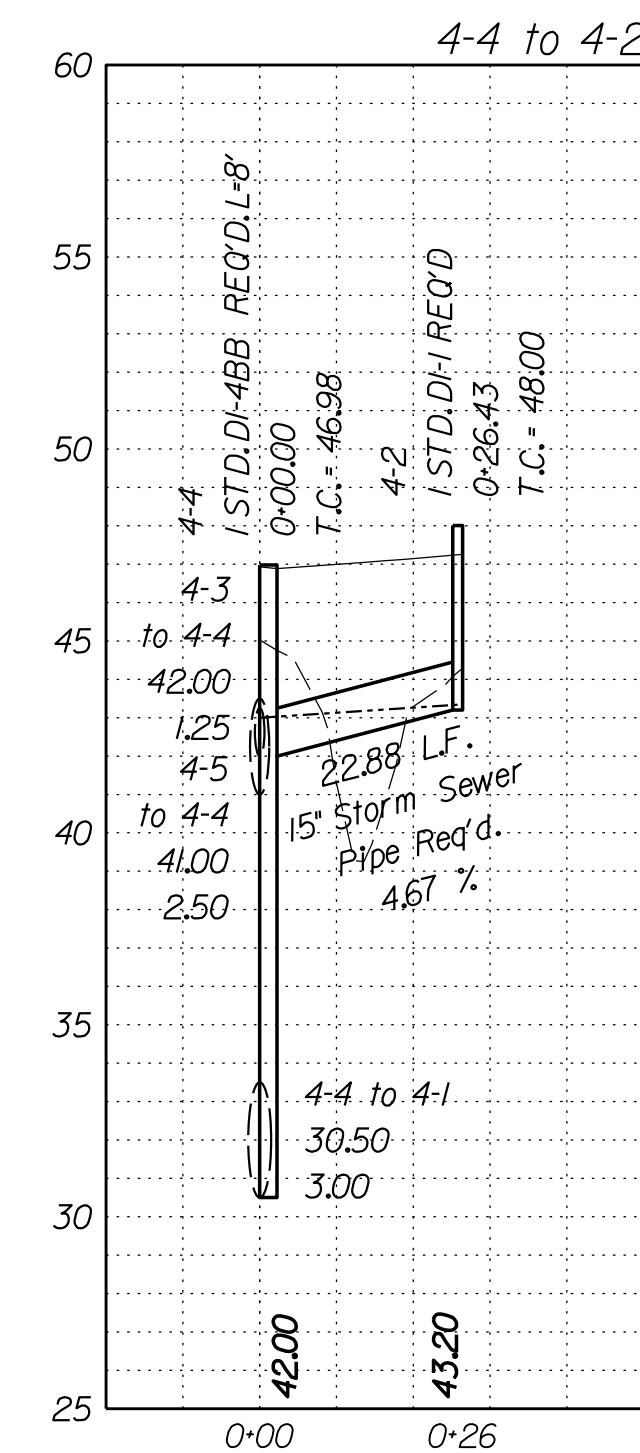
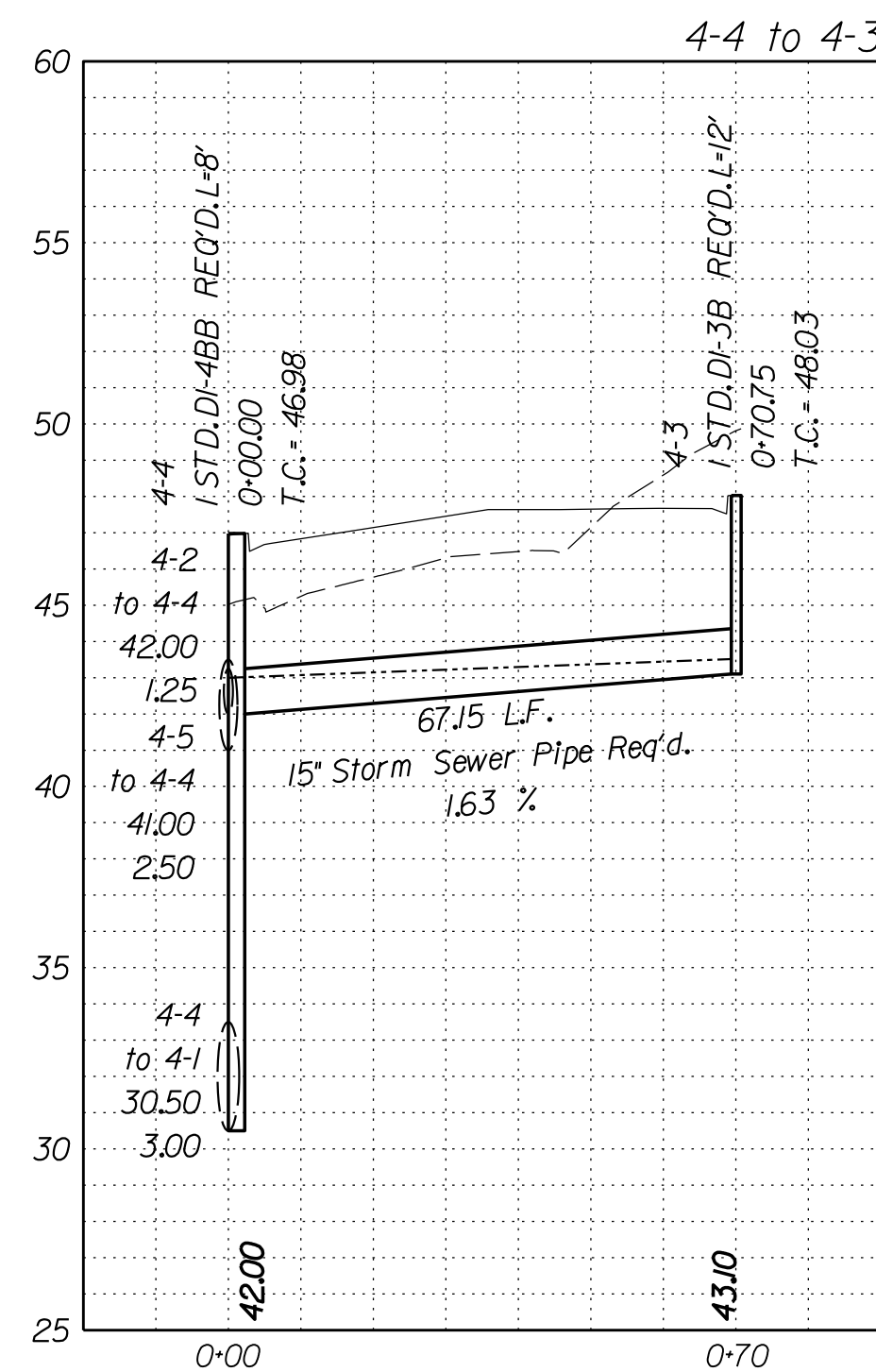
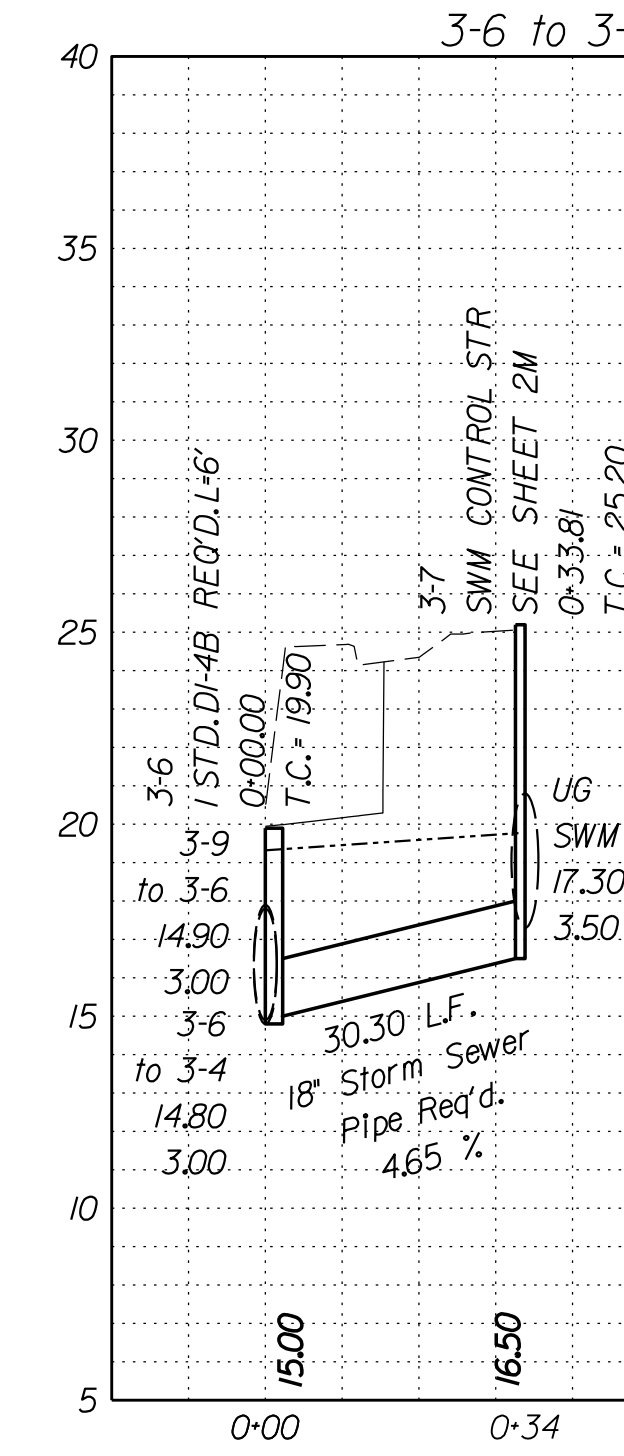
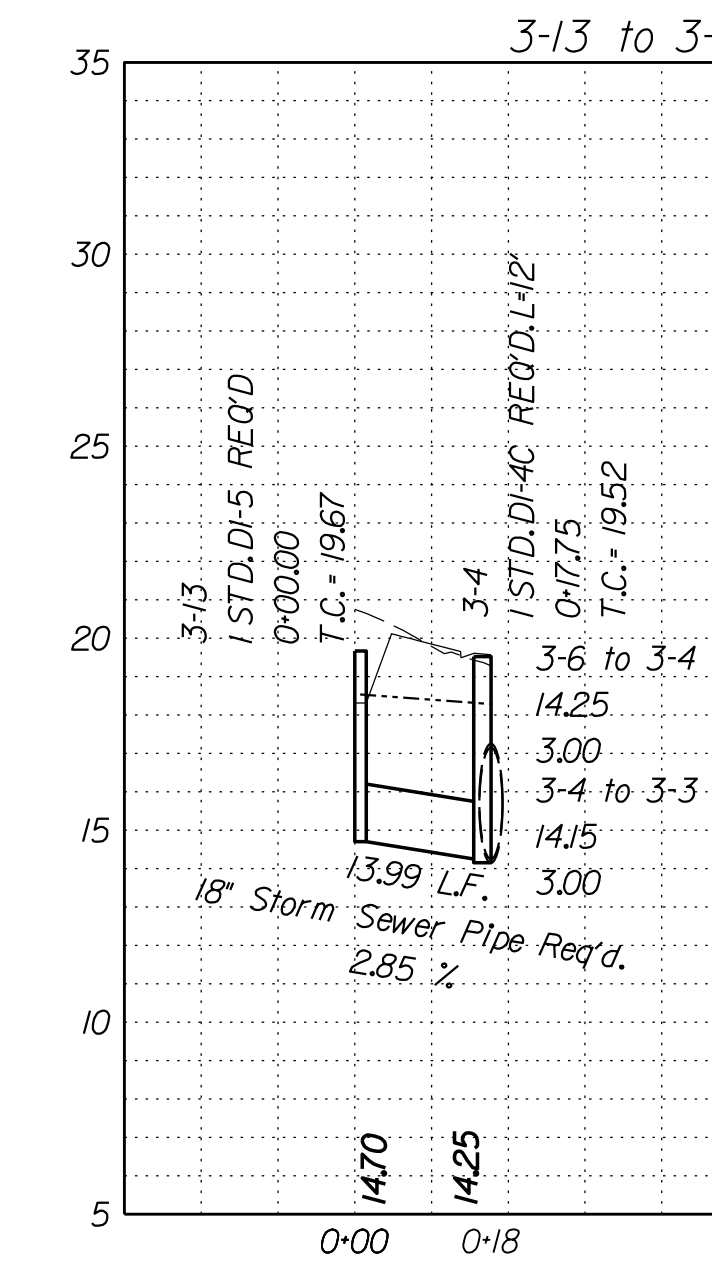
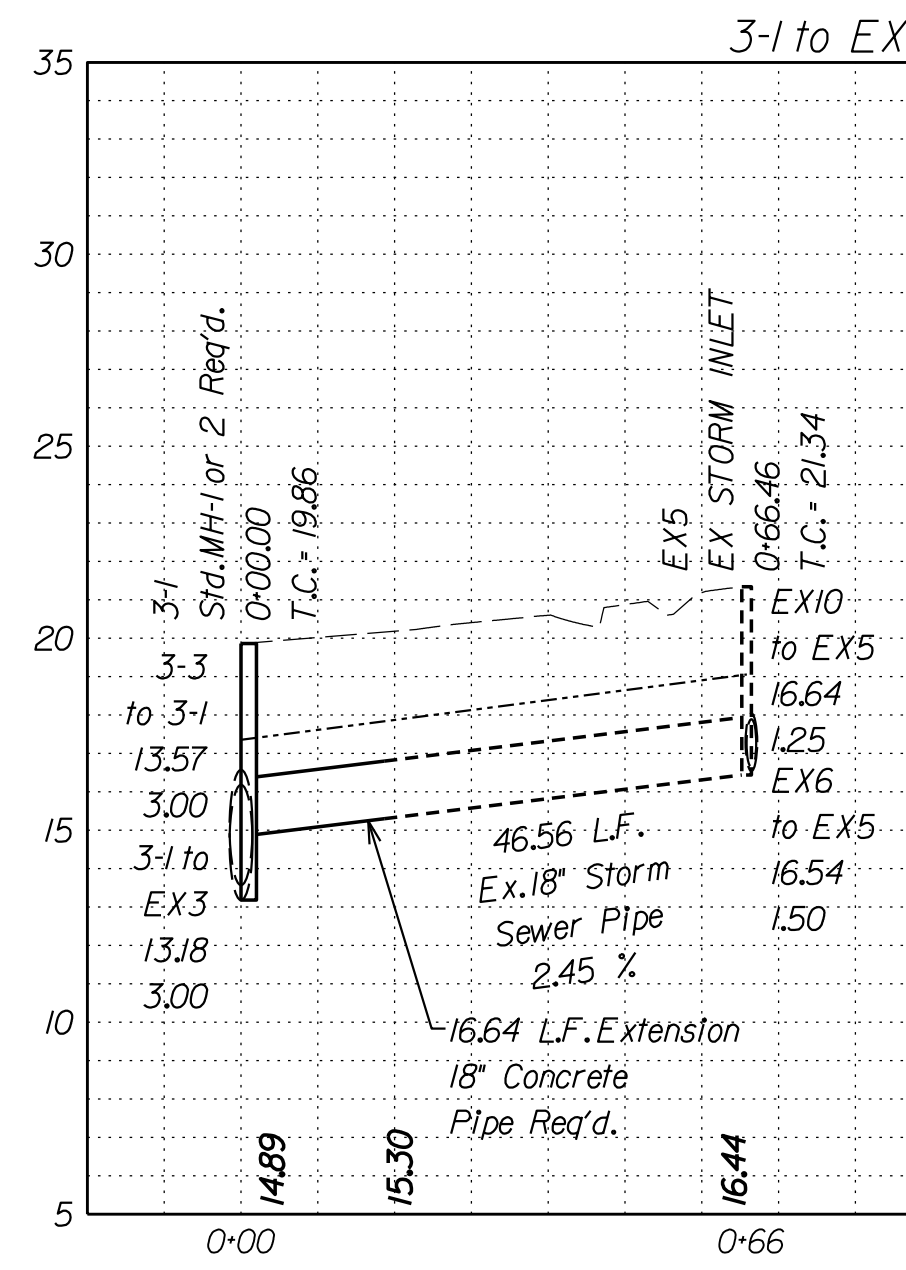
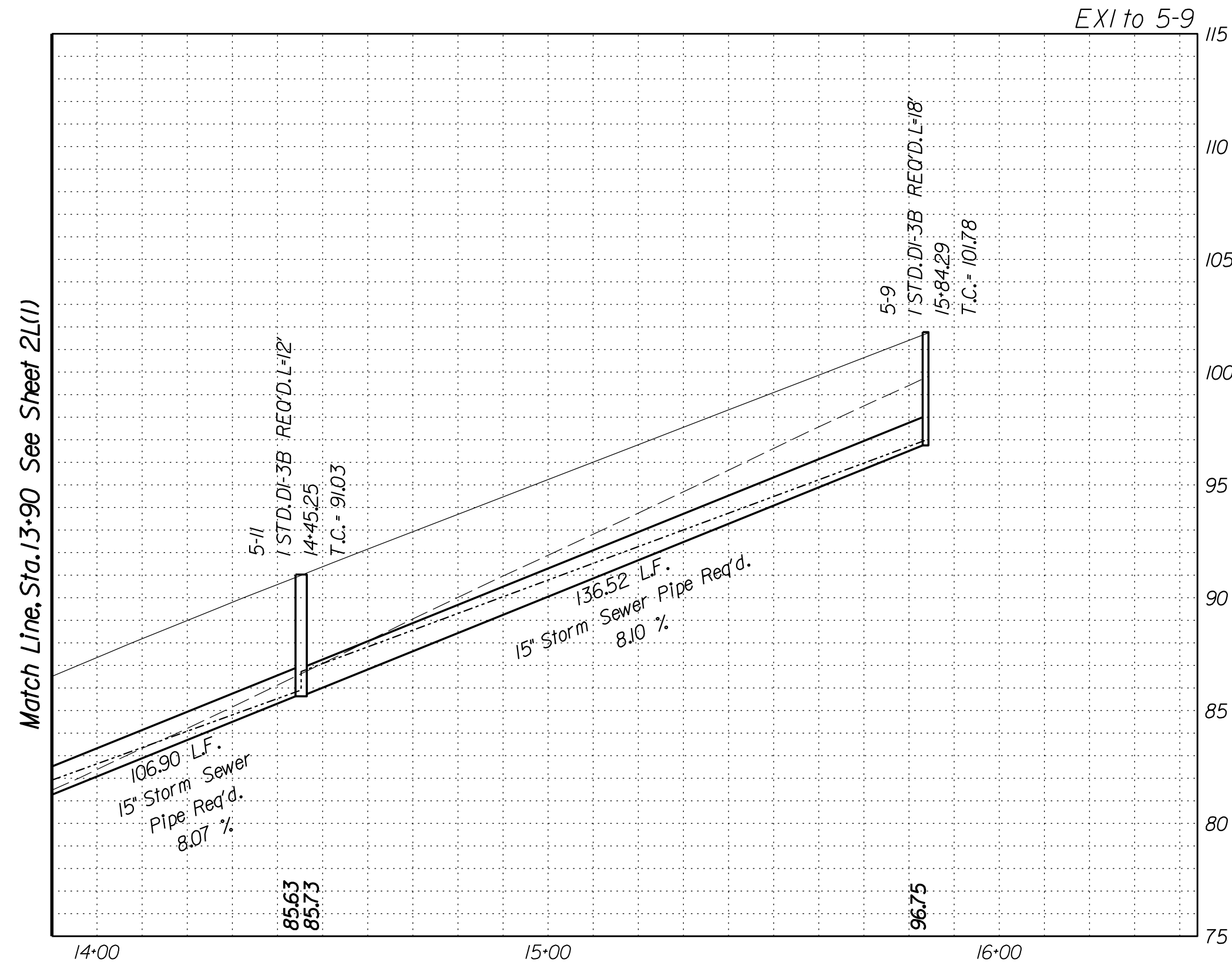
PROJECT MANAGER PWCDOT - Khattab, Shammout, P.E. : (703) 792-7193
SURVEYED BY, DATE RDA: Ryan Drea'la, LS (703) 334-9302, July 3, 2017
DESIGN BY RDA: Mack, Gunn, P.E. (703) 334-9288
SUBSURFACE UTILITY BY, DATE Accurmark (703) 378-0100, August 1, 2017

Storm Sewer Profiles

REVISED	STATE	STATE	SHEET NO.
	VA.	ROUTE 638	

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
(Hydraulics)



- Legend**
- DENOTES PROP. GRADE
 - - - DENOTES EX. GRADE
 - DENOTES HGL
 - - - DENOTES EX. STR. OR PIPE

VDOT PROJECT NO. 0638-076-209 PWCDOT PROJECT NO. SPR2018-00271	SHEET NO. 21(2)
---	--------------------

THESE PLANS ARE UNFINISHED AND UNAPPROVED AND ARE NOT TO BE USED FOR ANY TYPE OF CONSTRUCTION.

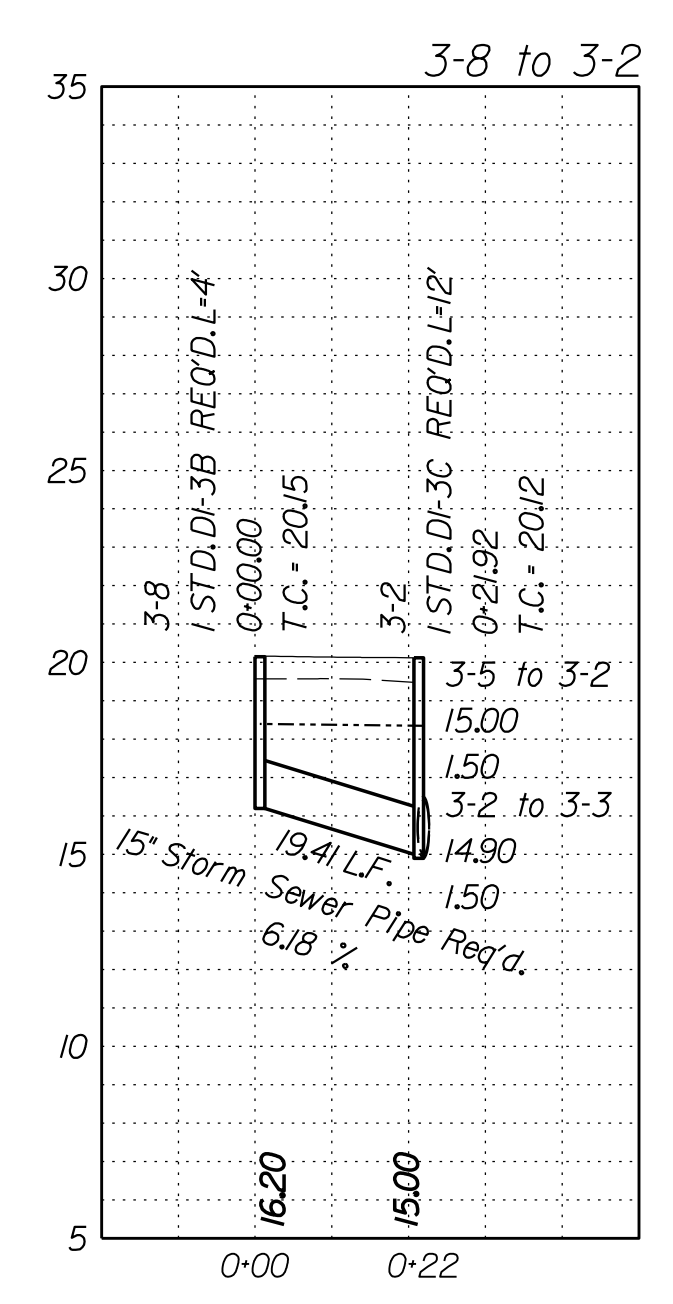
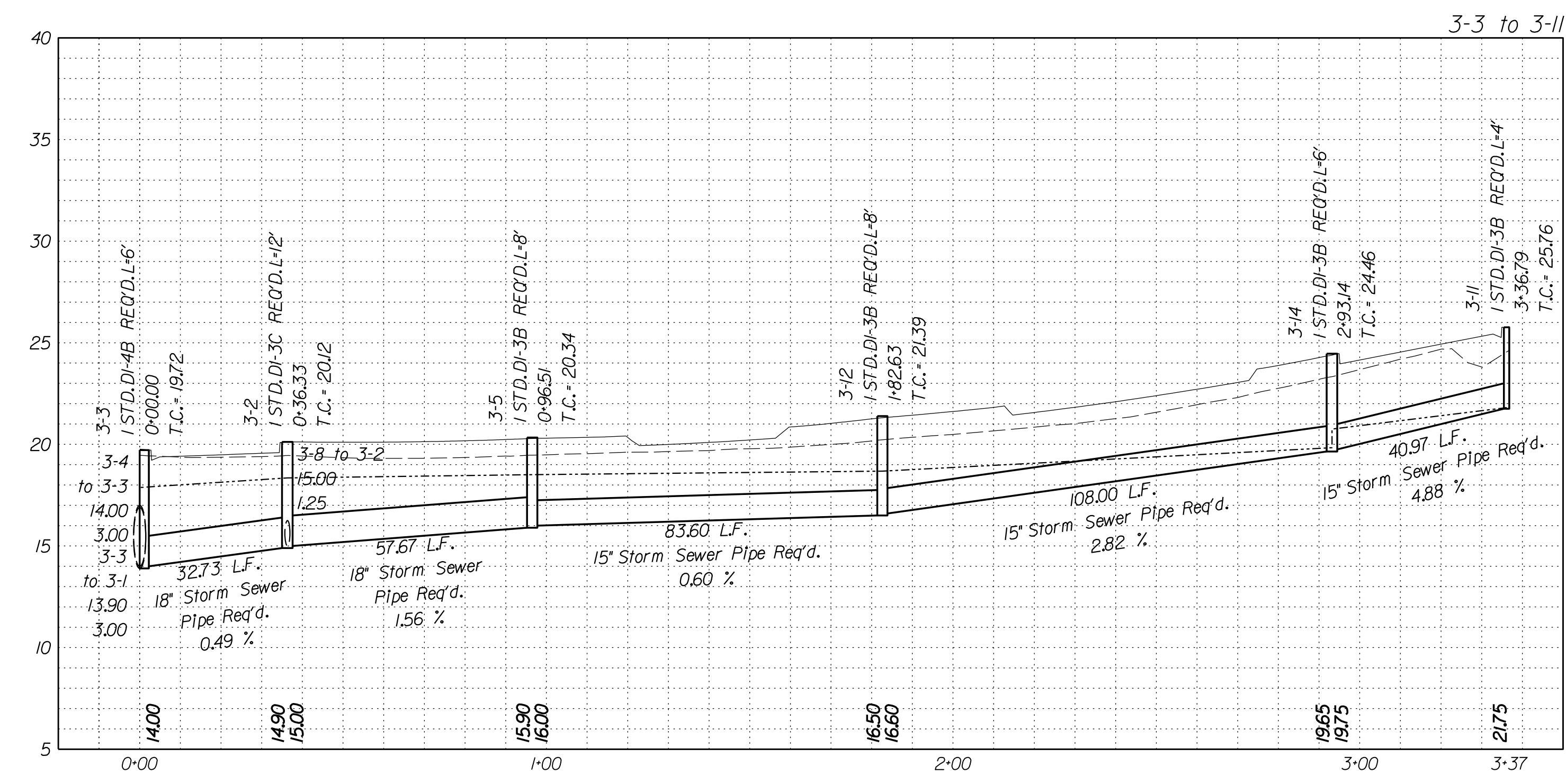
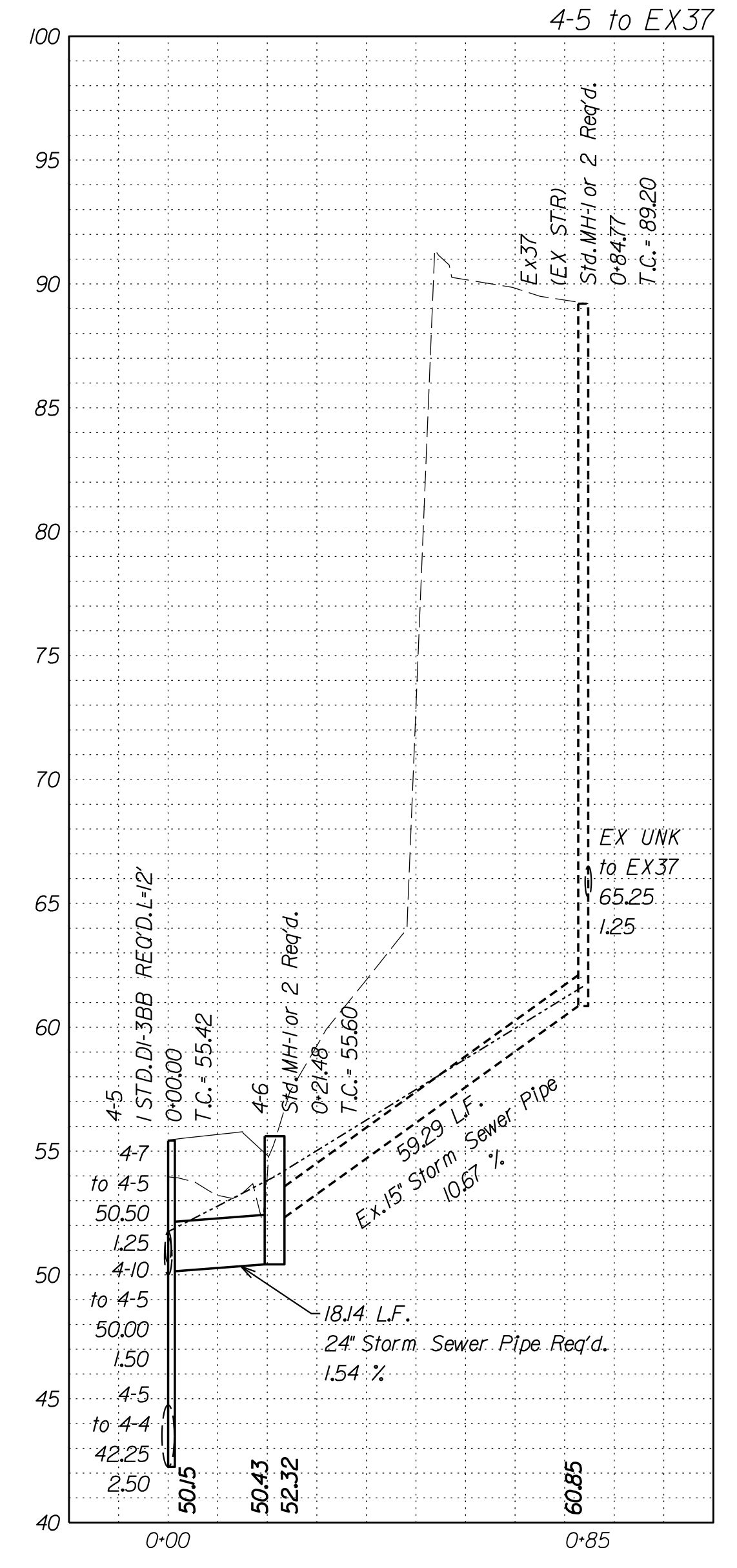
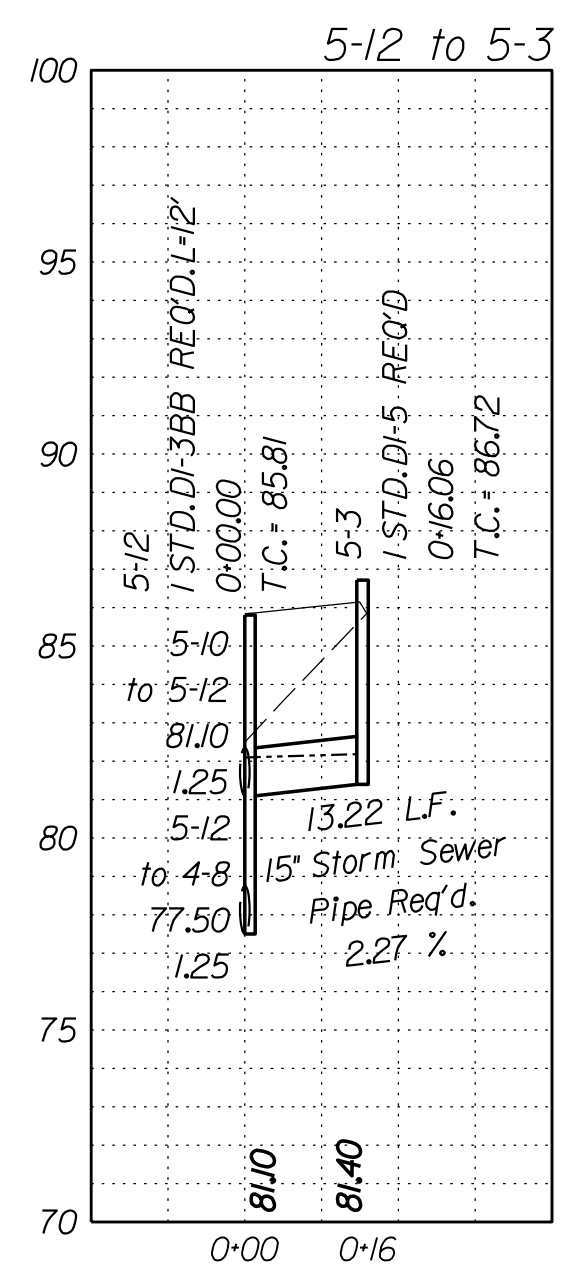
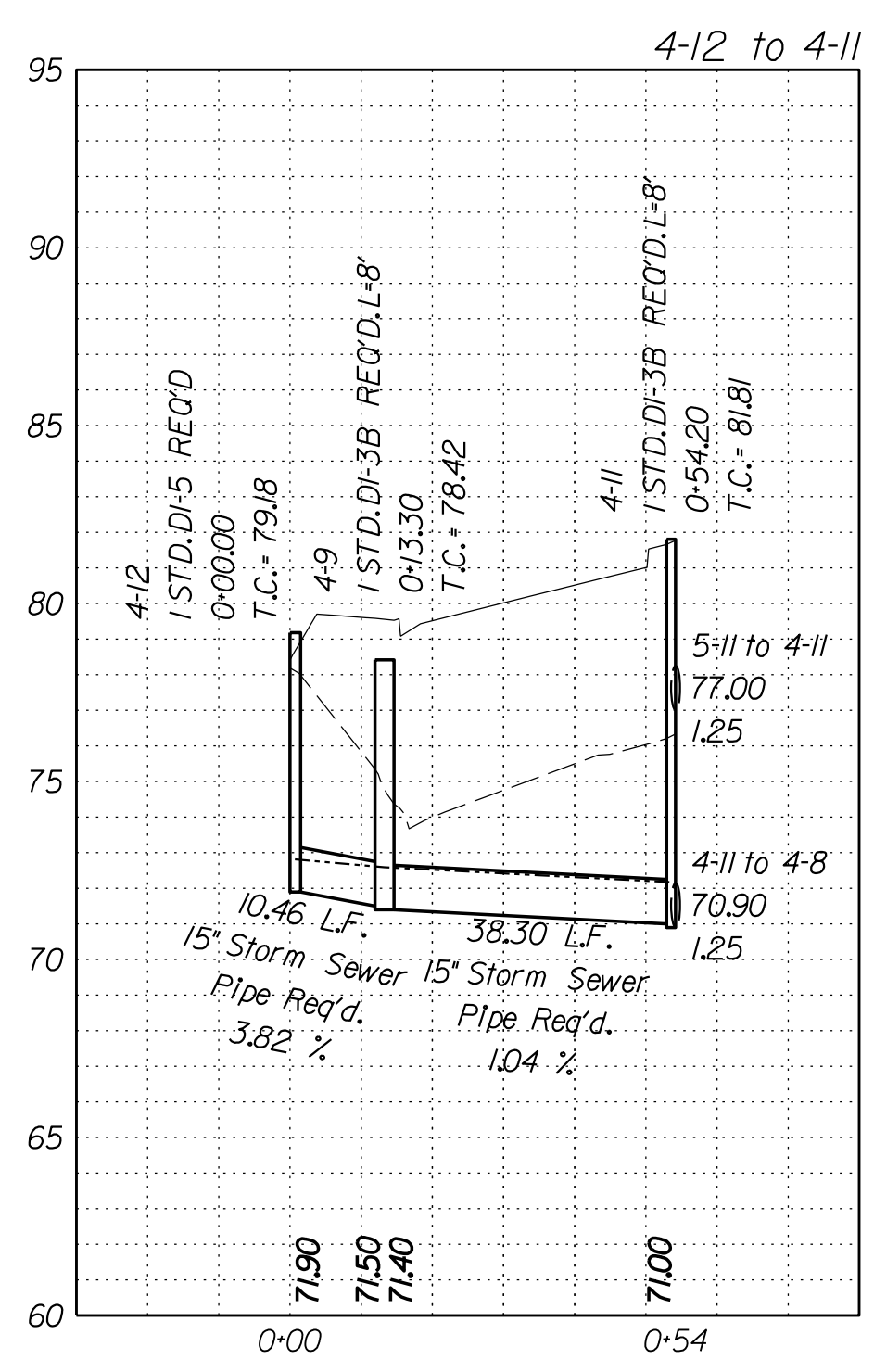
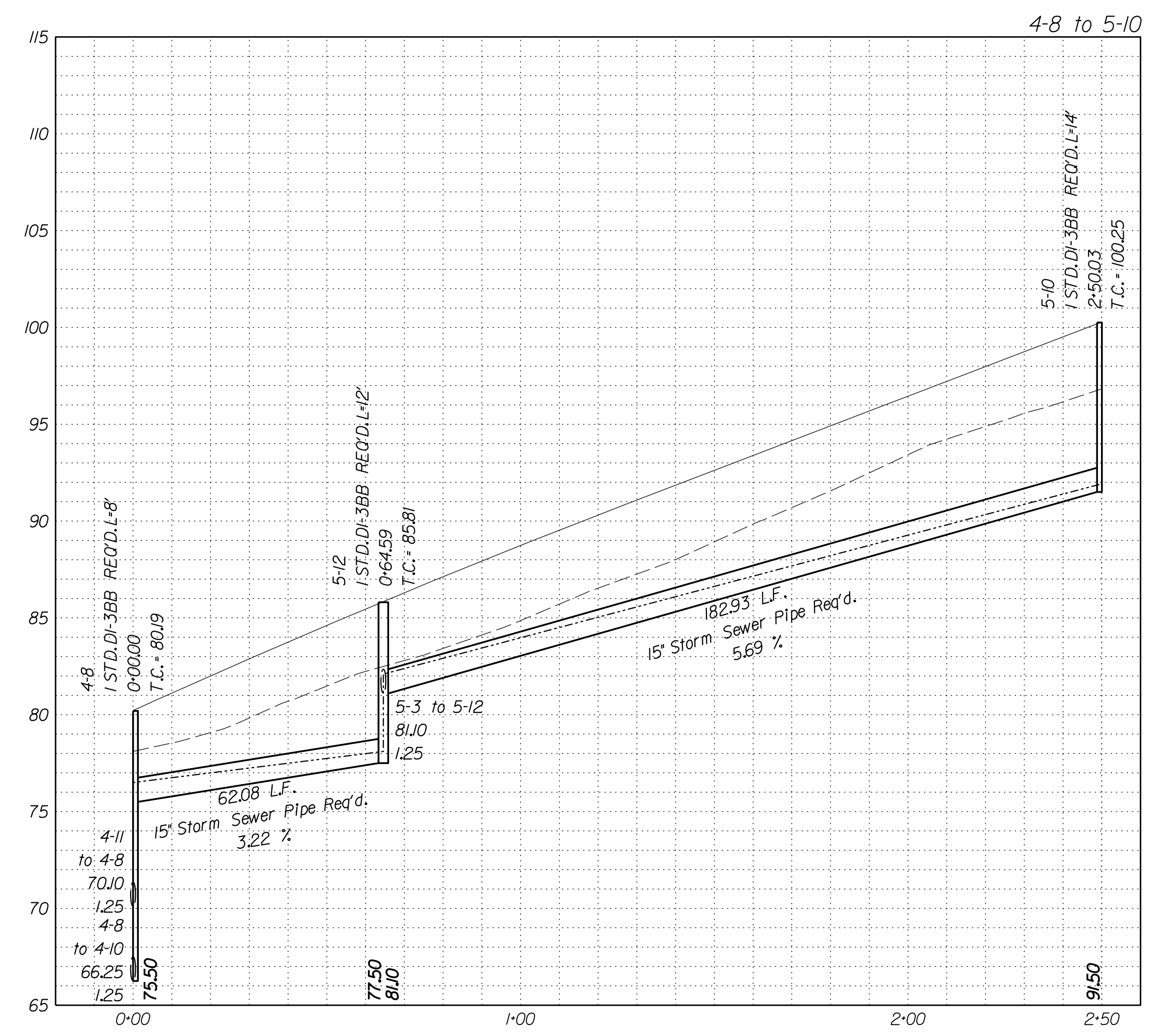
R/W PHASE PLANS

PROJECT MANAGER: PWCDOT - Khattab, Shammout, P.E. (703) 792-7193
SURVEYED BY, DATE: RDA: Ryan Dreehl, LS (703) 334-9302, July 3, 2017
DESIGN BY: RDA: Mack, Gunn, P.E. (703) 334-9288
SUBSURFACE UTILITY BY, DATE: Accurmark (703) 378-0100, August 1, 2017

Storm Sewer Profiles

REVISED	STATE	STATE	SHEET NO.
	VA.	ROUTE 638	
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 (Hydraulics)			

Rinker Design Associates, P.C.
 Civil Engineering, Surveying, Land Planning, Environmental
 Transportation, Construction Management, Right of Way Services
 10000 Rinker Blvd., Suite 200
 Fredericksburg, VA 22401
 Phone: (540) 361-1111
 Fax: (540) 361-1112
 www.rinker.com



SCALE
V: 1"=5'
H: 1"=25'

Legend

- DENOTES PROP. GRADE
- - - DENOTES EX. GRADE
- DENOTES HGL
- - - DENOTES EX. STR. OR PIPE

THESE PLANS ARE UNFINISHED AND UNAPPROVED AND ARE NOT TO BE USED FOR ANY TYPE OF CONSTRUCTION.

R/W PHASE PLANS

VDOT PROJECT NO. 0638-076-209 PWCDOT PROJECT NO. SPR2018-00271	SHEET NO. 21(3)
---	--------------------

Storm Sewer Profiles

PROJECT MANAGER PWCDOT - Khattab, Shammout, P.E. : (703) 792-7193
SURVEYED BY, DATE RDA: Bryan Dreelin, LS (703) 334-9302, July 3, 2017
DESIGN BY RDA: Mack, Gunn, P.E. (703) 334-9288
SUBSURFACE UTILITY BY, DATE Accurmark (703) 378-0100, August 1, 2017

REVISED	STATE	STATE		SHEET NO.
	ROUTE	VDOT PROJECT NO.		
	VA.	638	0638-076-209 PE101 CS01 RW201	2L(4)

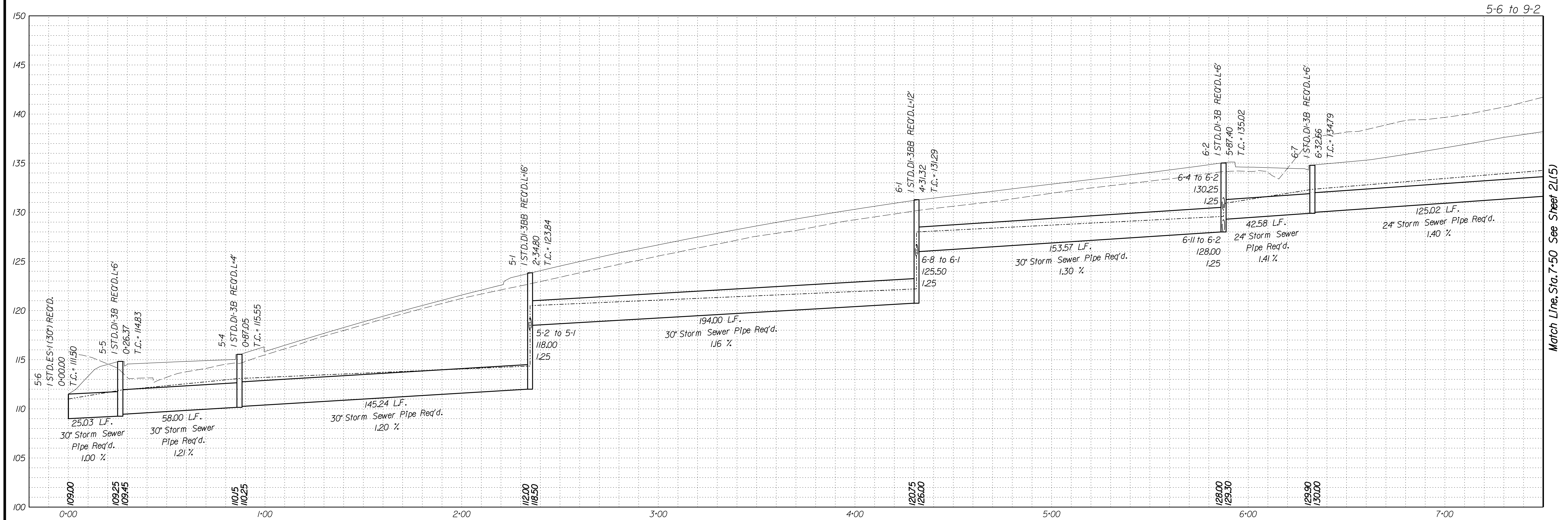
DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT

Rinker Design Assoc., P.C.
Fredericksburg, Virginia
(Hydraulics)

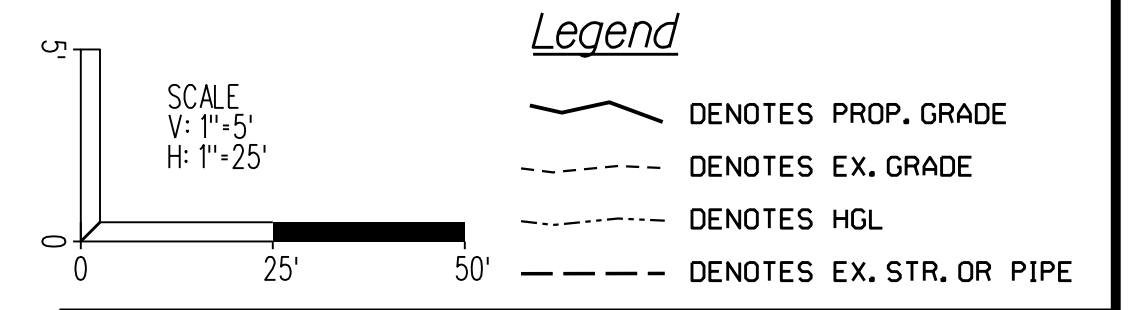


Office Locations
10000 Matthews Road
Suite 100
Charlotte, NC 28226
Phone: (704) 544-1100
Fax: (704) 544-1101

10000 Matthews Road
Suite 100
Charlotte, NC 28226
Phone: (704) 544-1100
Fax: (704) 544-1101



Match Line, Sta. 7+50 See Sheet 2L(5)



VDOT PROJECT NO. 0638-076-209 PWCDOT PROJECT NO. SPR2018-00271	SHEET NO. 2L(4)
---	--------------------

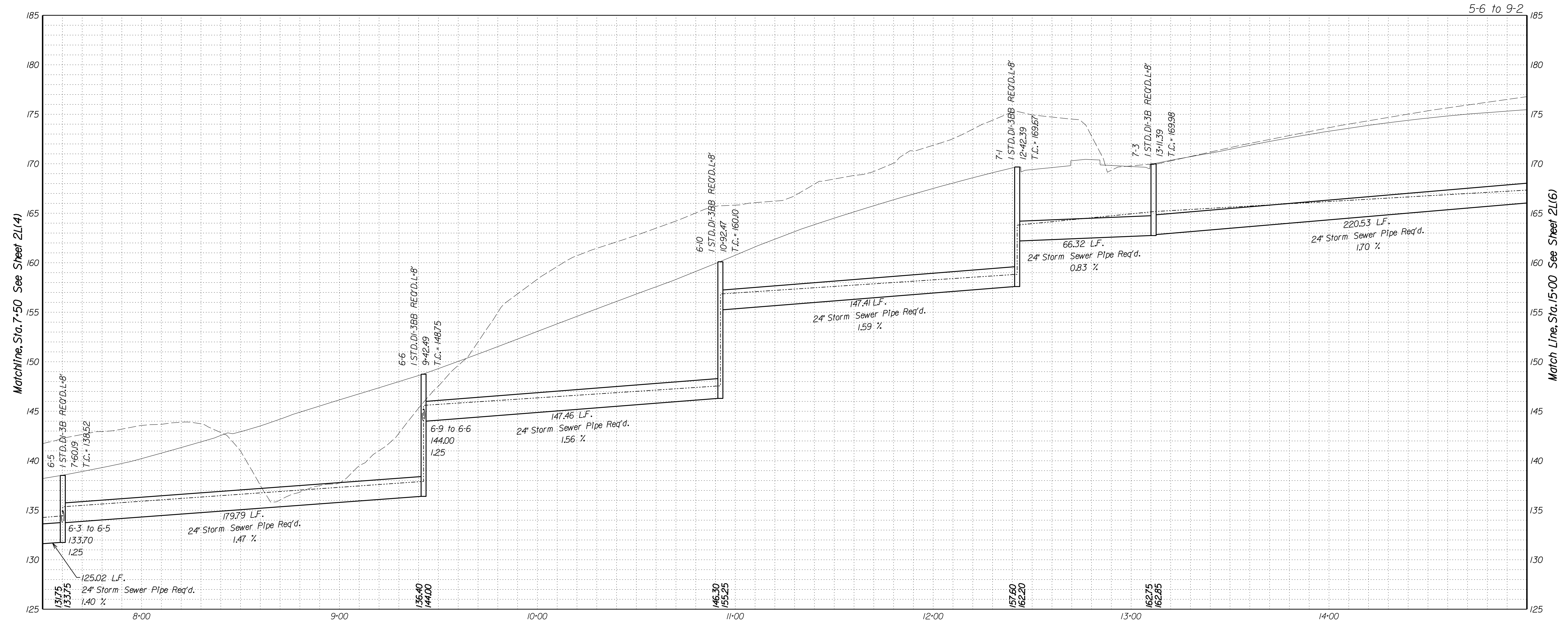
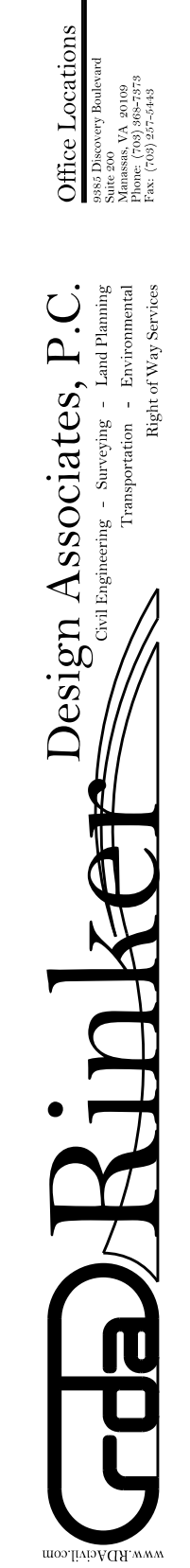
THESE PLANS ARE UNFINISHED AND UNAPPROVED AND ARE NOT TO BE USED FOR ANY TYPE OF CONSTRUCTION.

R/W PHASE PLANS

Storm Sewer Profiles

REVISED	STATE	STATE		SHEET NO.
	ROUTE	VDOT PROJECT NO.		
	VA.	638	0638-076-209 PE101 CS01 RW201	2L(5)
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 (Hydraulics)				

PROJECT MANAGER PWCDOT - Khattab, Shammout, P.E. : (703) 792-7193
 SURVEYED BY, DATE RDA: Ryan Dreella, LS (703) 334-9302, July 3, 2017
 DESIGN BY RDA: Mack, Gunn, P.E. (703) 334-9288
 SUBSURFACE UTILITY BY, DATE Accumark (703) 378-0100, August 1, 2017



Legend

- DENOTES PROP. GRADE
- - - DENOTES EX. GRADE
- · · DENOTES HGL
- · - · DENOTES EX. STR. OR PIPE

SCALE
V: 1" = 5'
H: 1" = 25'

VDOT PROJECT NO. 0638-076-209
PWCDOT PROJECT NO. SPR2018-00271

SHEET NO. 2L(5)

THESE PLANS ARE UNFINISHED AND UNAPPROVED AND ARE NOT TO BE USED FOR ANY TYPE OF CONSTRUCTION.

R/W PHASE PLANS

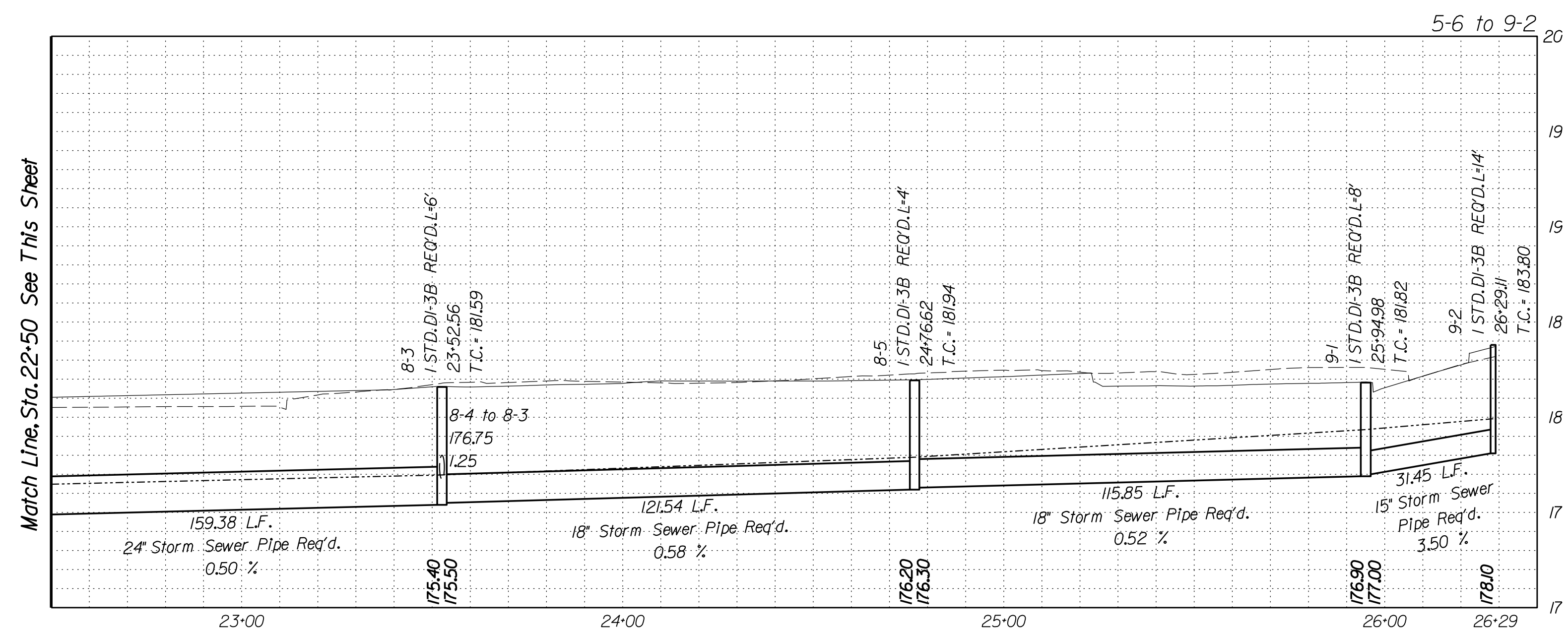
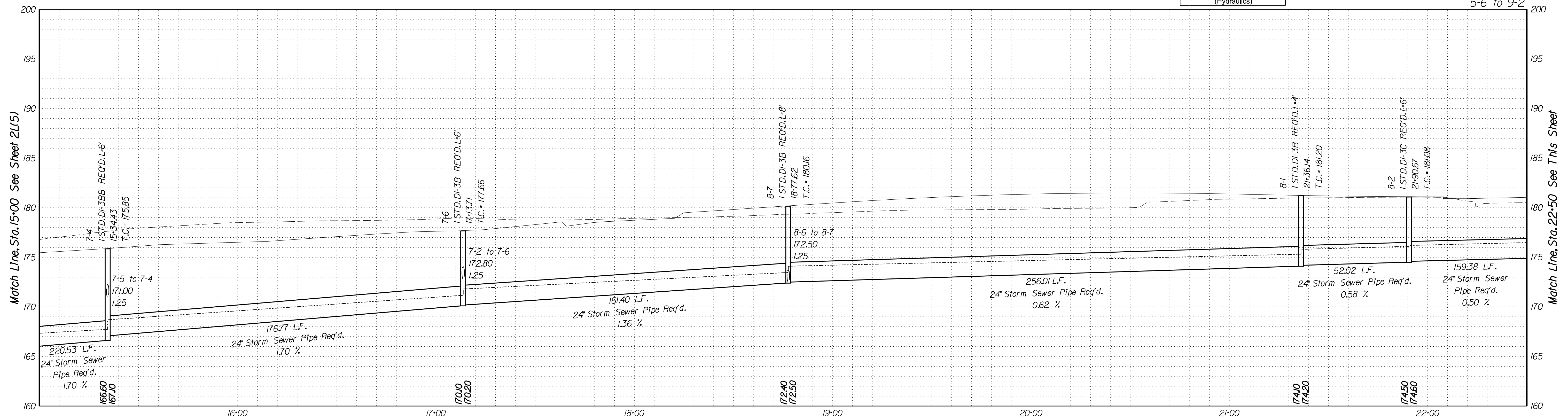
PROJECT MANAGER PWCDOT: Khattab, Shammout, P.E. : (703) 792-7193
SURVEYED BY, DATE RDA: Bryan Dreella, LS (703) 334-9302, July 3, 2017
DESIGN BY RDA: Mack, Gunn, P.E. (703) 334-9288
SUBSURFACE UTILITY BY, DATE Accurack (703) 378-0100, August 1, 2017

Storm Sewer Profiles

REVISED	STATE	ROUTE	STATE	VDOT PROJECT NO.	SHEET NO.
	VA.	638		0638-076-209 PE101 CS01 RW201	2L(6)

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
(Hydraulics)



SCALE
V: 1"=5'
H: 1"=25'

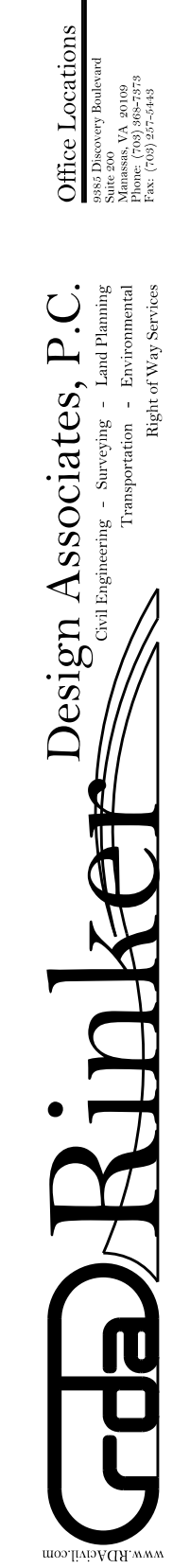
Legend

- DENOTES PROP. GRADE
- - - DENOTES EX. GRADE
- DENOTES HGL
- - - DENOTES EX. STR. OR PIPE

VDOT PROJECT NO. 0638-076-209 PWCDOT PROJECT NO. SPR2018-00271	SHEET NO. 2L(6)
---	--------------------

THESE PLANS ARE UNFINISHED AND UNAPPROVED AND ARE NOT TO BE USED FOR ANY TYPE OF CONSTRUCTION.

R/W PHASE PLANS



PROJECT MANAGER: EWCDOT - Khattab, Shammout, P.E. (703) 792-7193
SURVEYED BY, DATE: RDA - Ryan, Dreel'a, L.S. (703) 334-9302, July 3, 2017
DESIGN BY: RDA - Mack, Gunn, P.E. (703) 334-9288
SUBSURFACE UTILITY BY, DATE: Accumark (703) 378-0100, August 1, 2017

Storm Sewer Profiles

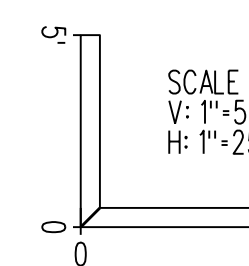
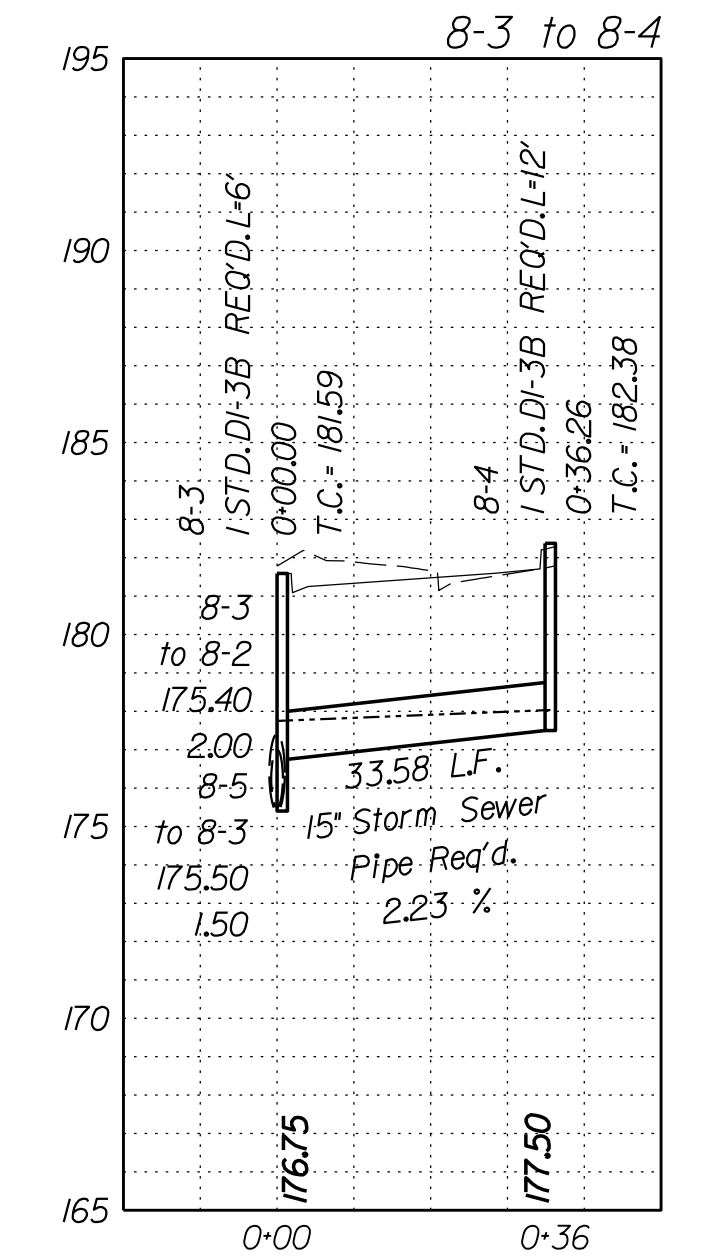
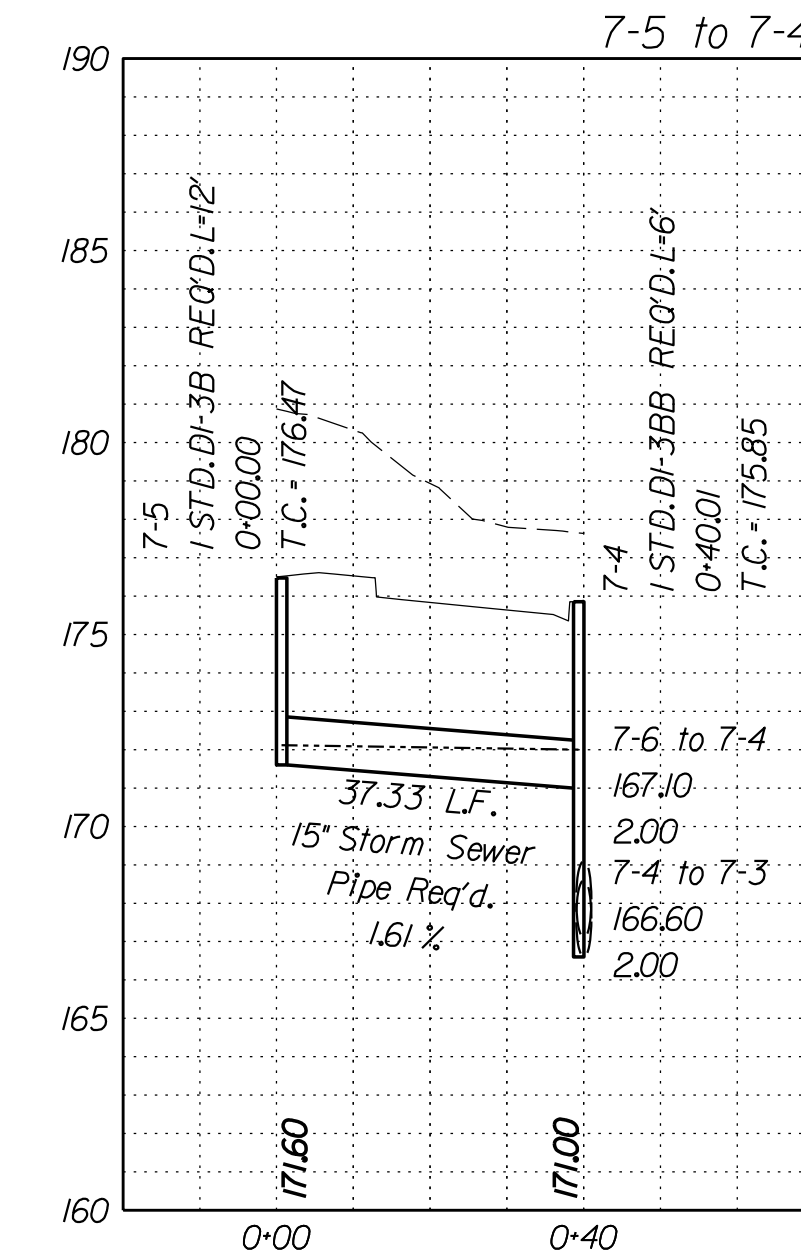
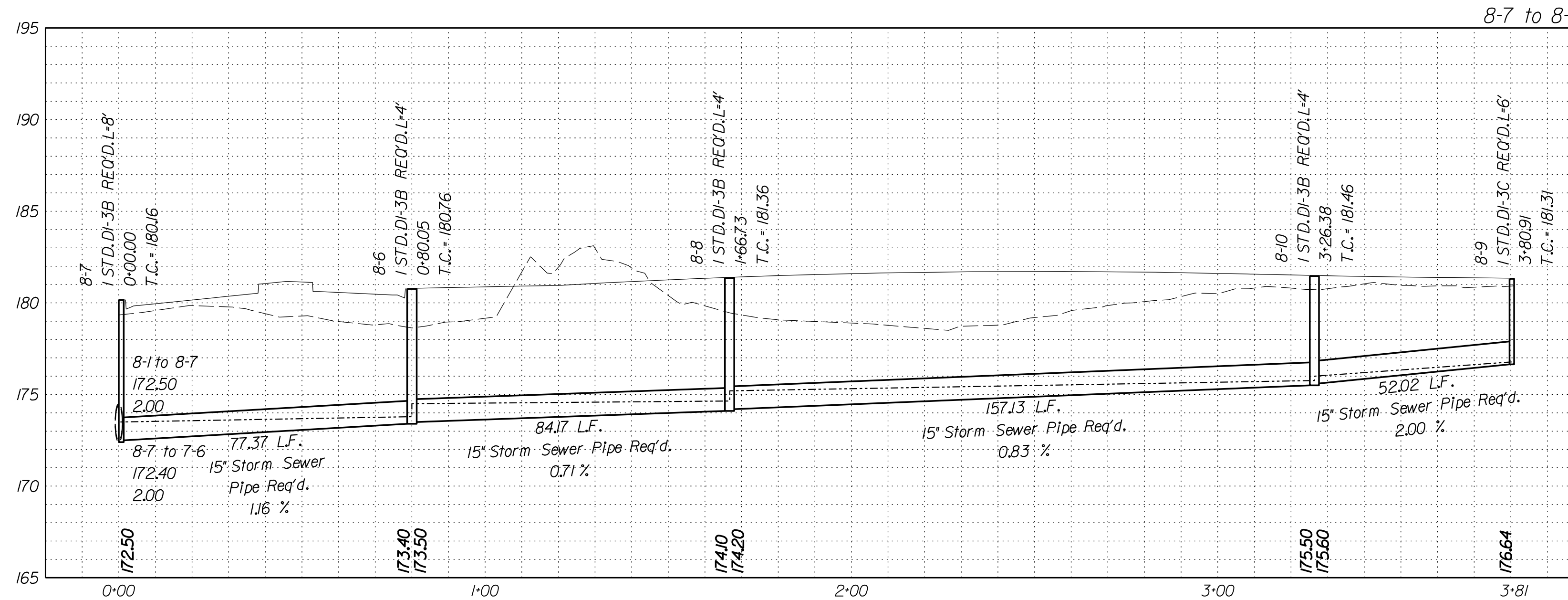
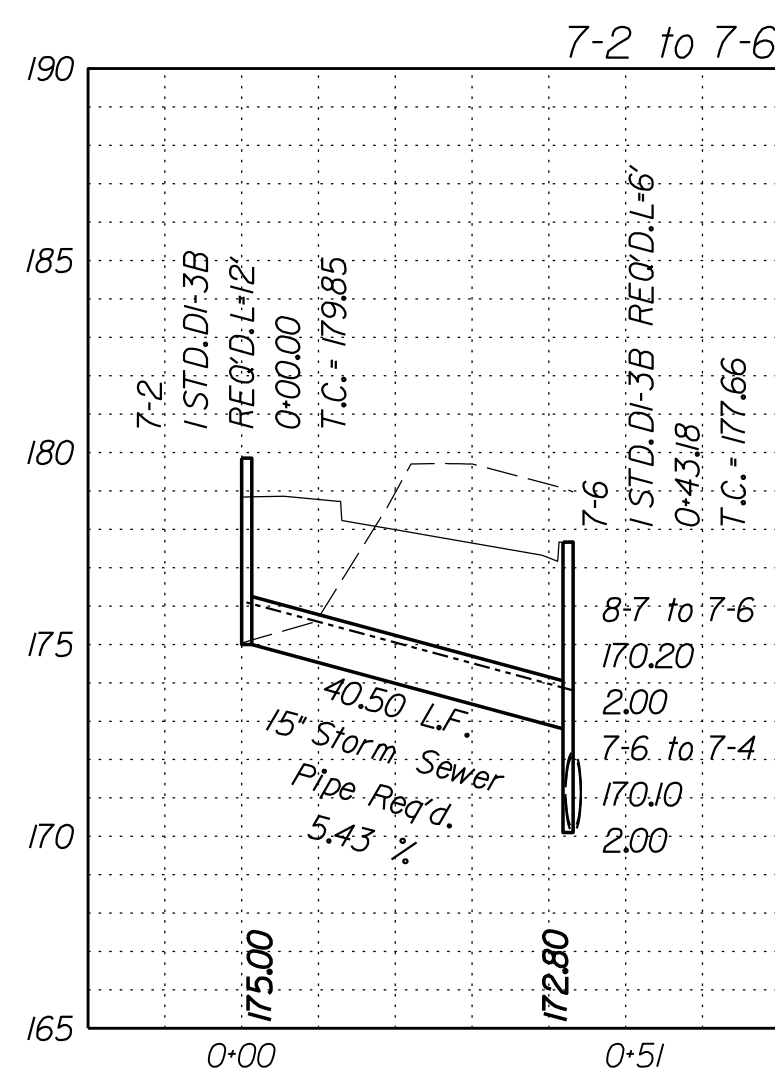
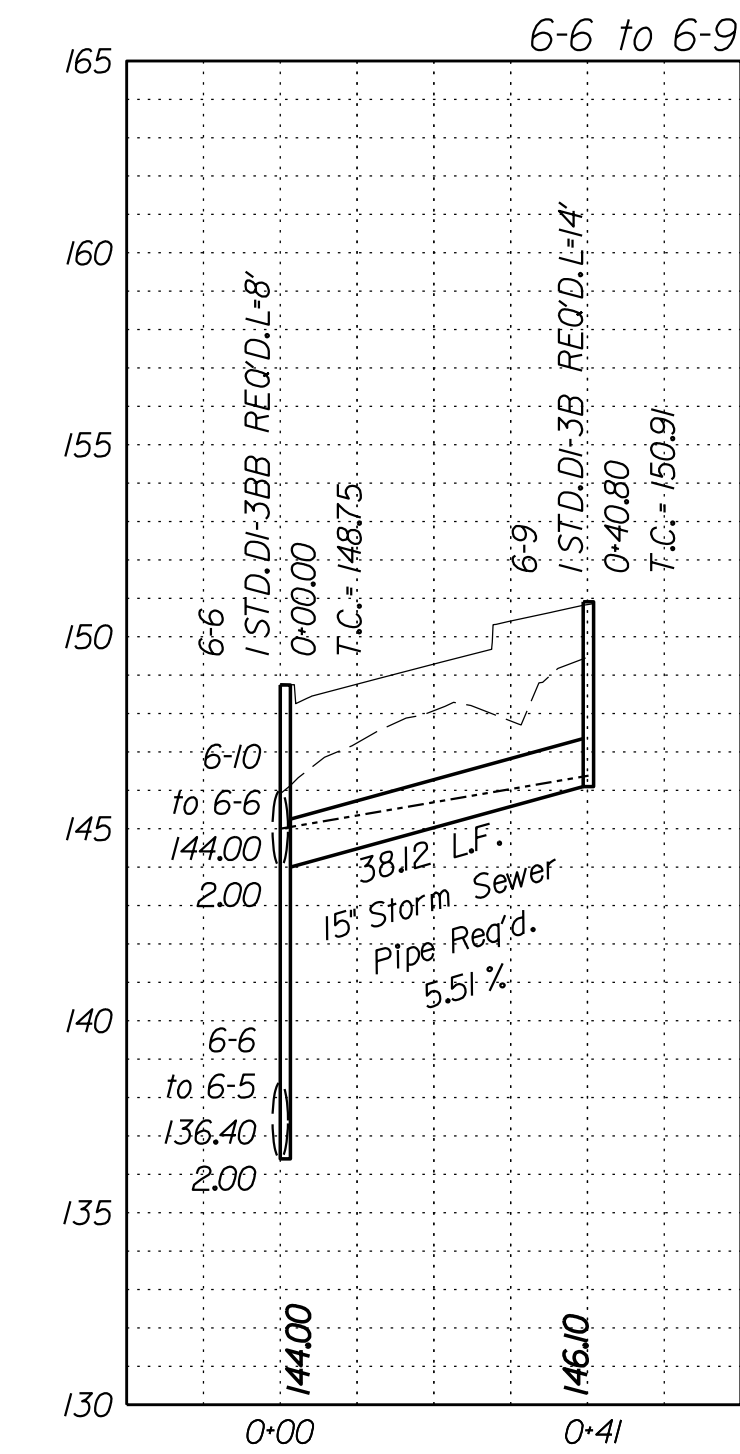
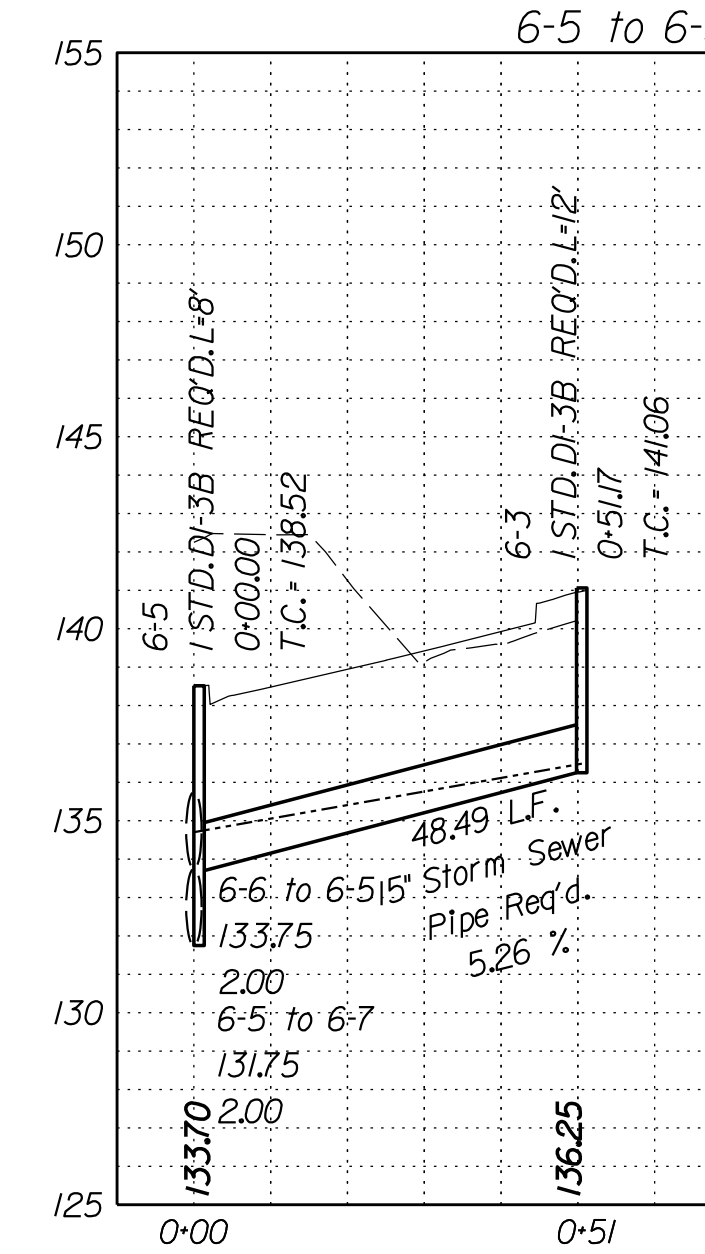
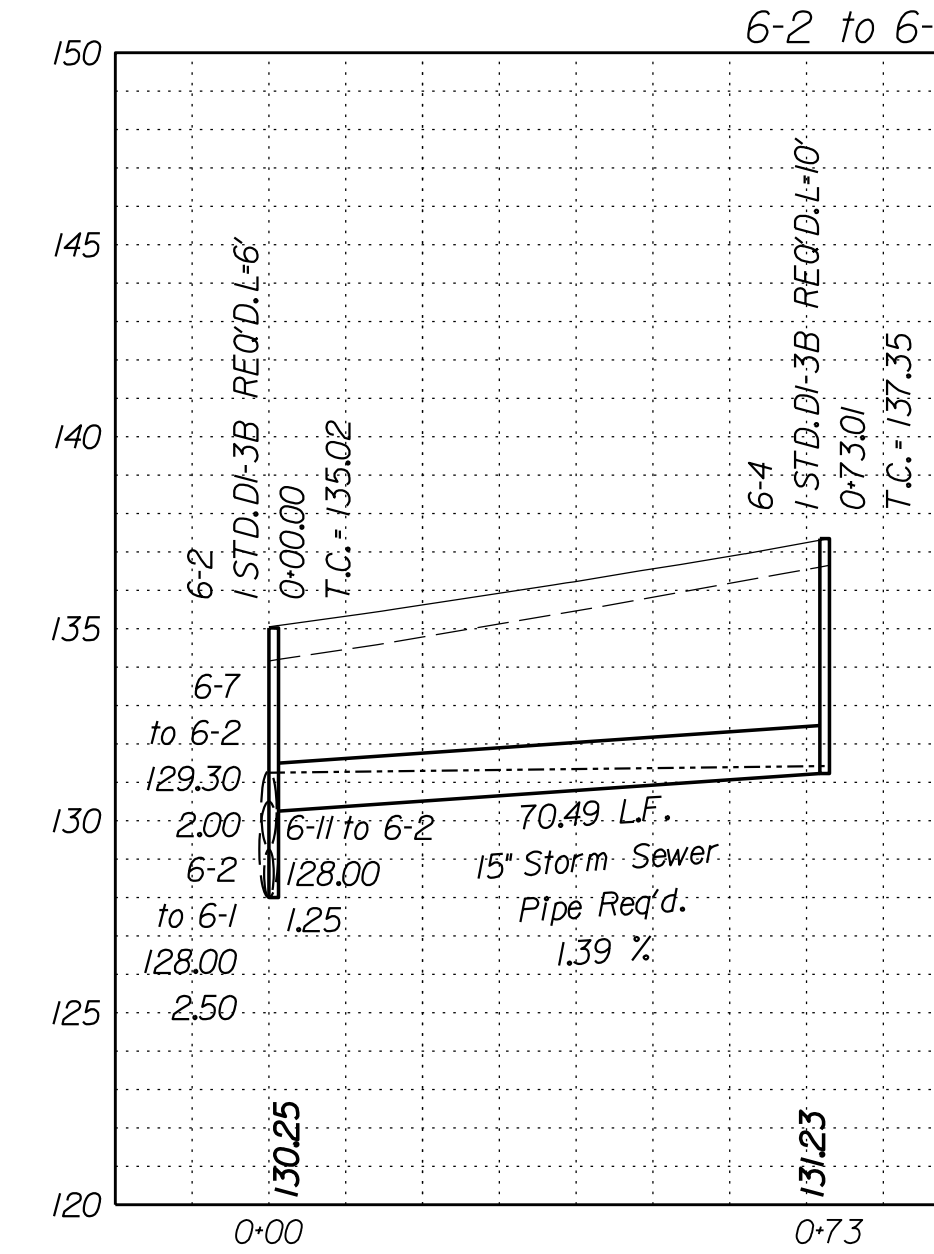
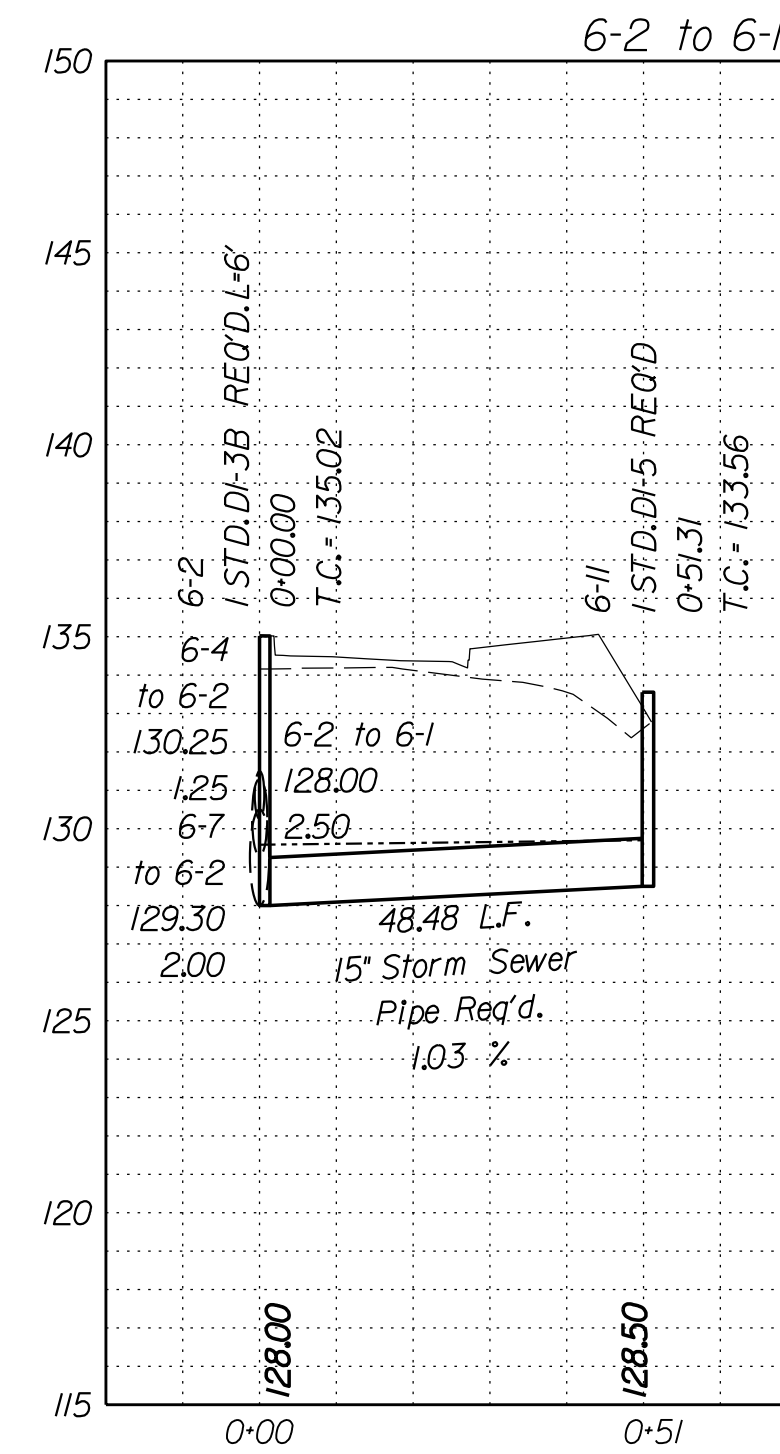
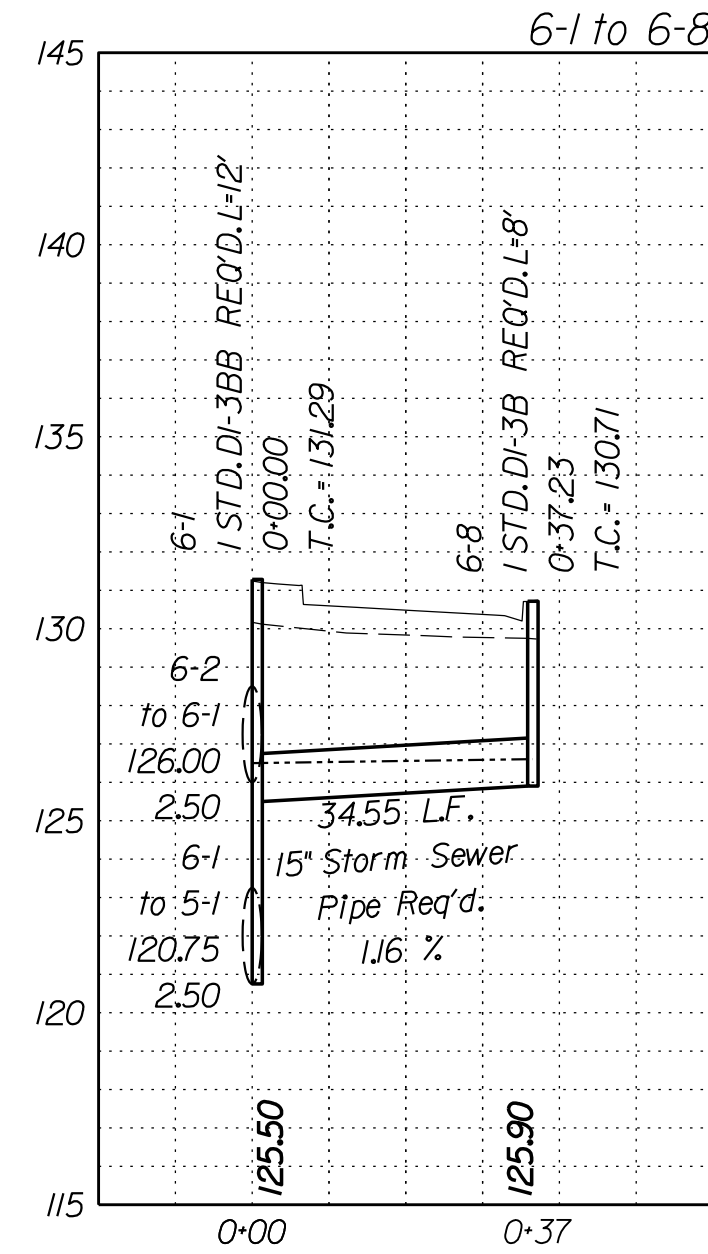
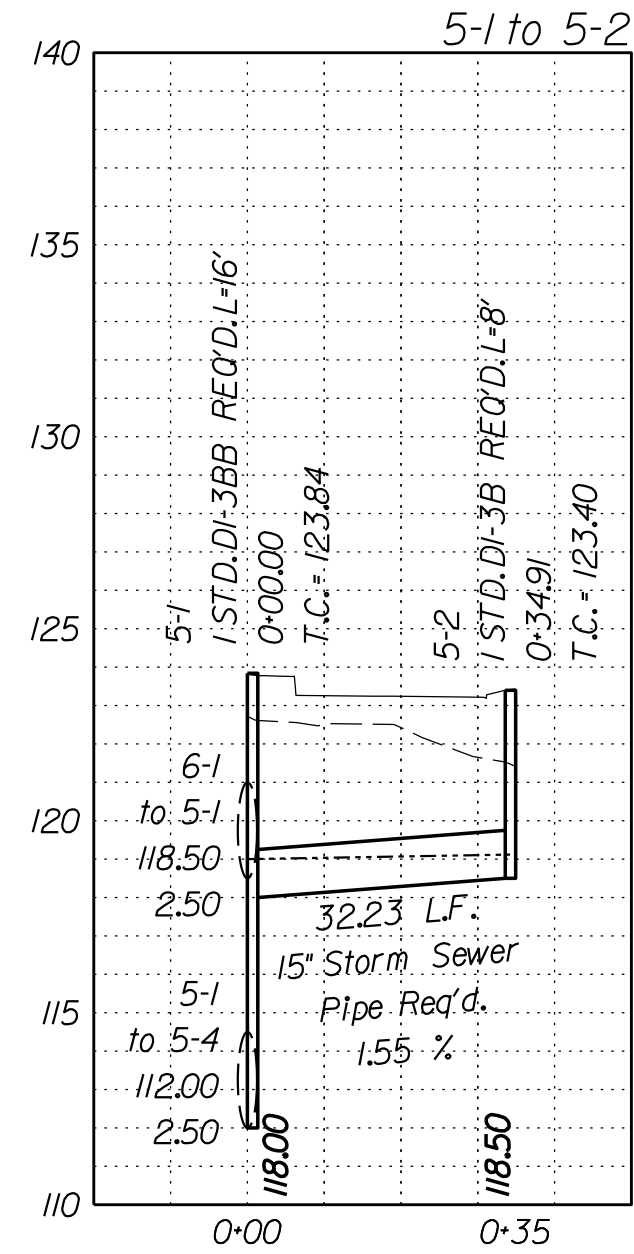
REVISED	STATE	ROUTE	STATE	VDOT PROJECT NO.	SHEET NO.
	VA.	638		0638-076-209 PE101 CS01 RW201	2L(7)

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
(Hydraulics)



Office Locations
1800 Mountain Boulevard
Martinsville, VA 22104
10000 Old Dominion Blvd., Suite 100
Norfolk, VA 23502
10000 Old Dominion Blvd., Suite 100
Norfolk, VA 23502



- Legend**
- DENOTES PROP. GRADE
 - - - DENOTES EX. GRADE
 - - - DENOTES HGL
 - - - DENOTES EX. STR. OR PIPE

VDOT PROJECT NO. 0638-076-209 PWCDOT PROJECT NO. SPR2018-00271	SHEET NO. 2L(7)
---	--------------------

THESE PLANS ARE UNFINISHED AND UNAPPROVED AND ARE NOT TO BE USED FOR ANY TYPE OF CONSTRUCTION.

R/W PHASE PLANS

PROJECT MANAGER: EWCDOT - Khattab, Shammout, P.E. (703) 792-7193
SURVEYED BY, DATE: RDA: Ryan Dreella, L.S. (703) 334-9302, July 3, 2017
DESIGN BY: RDA: Mack, Gunn, P.E. (703) 334-9288
SUBSURFACE UTILITY BY, DATE: Accurack (703) 378-0100, August 1, 2017

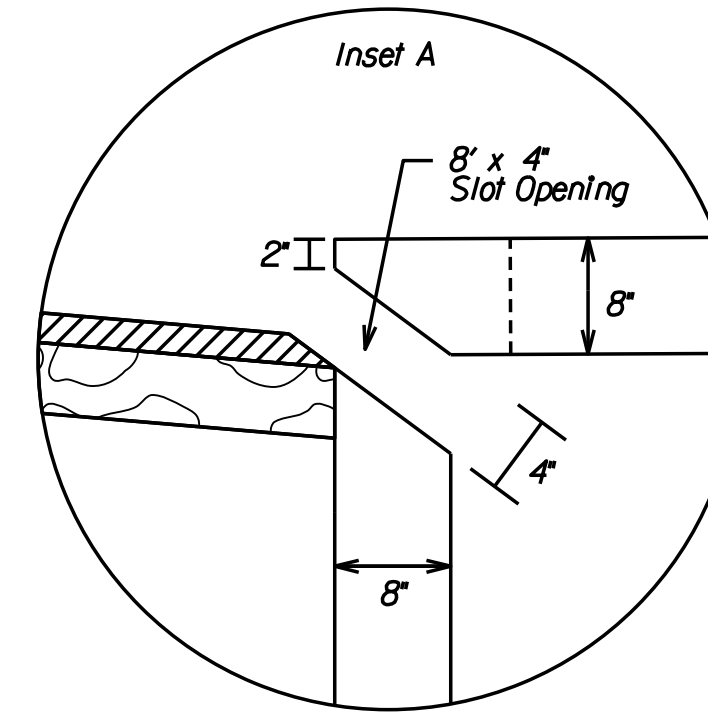
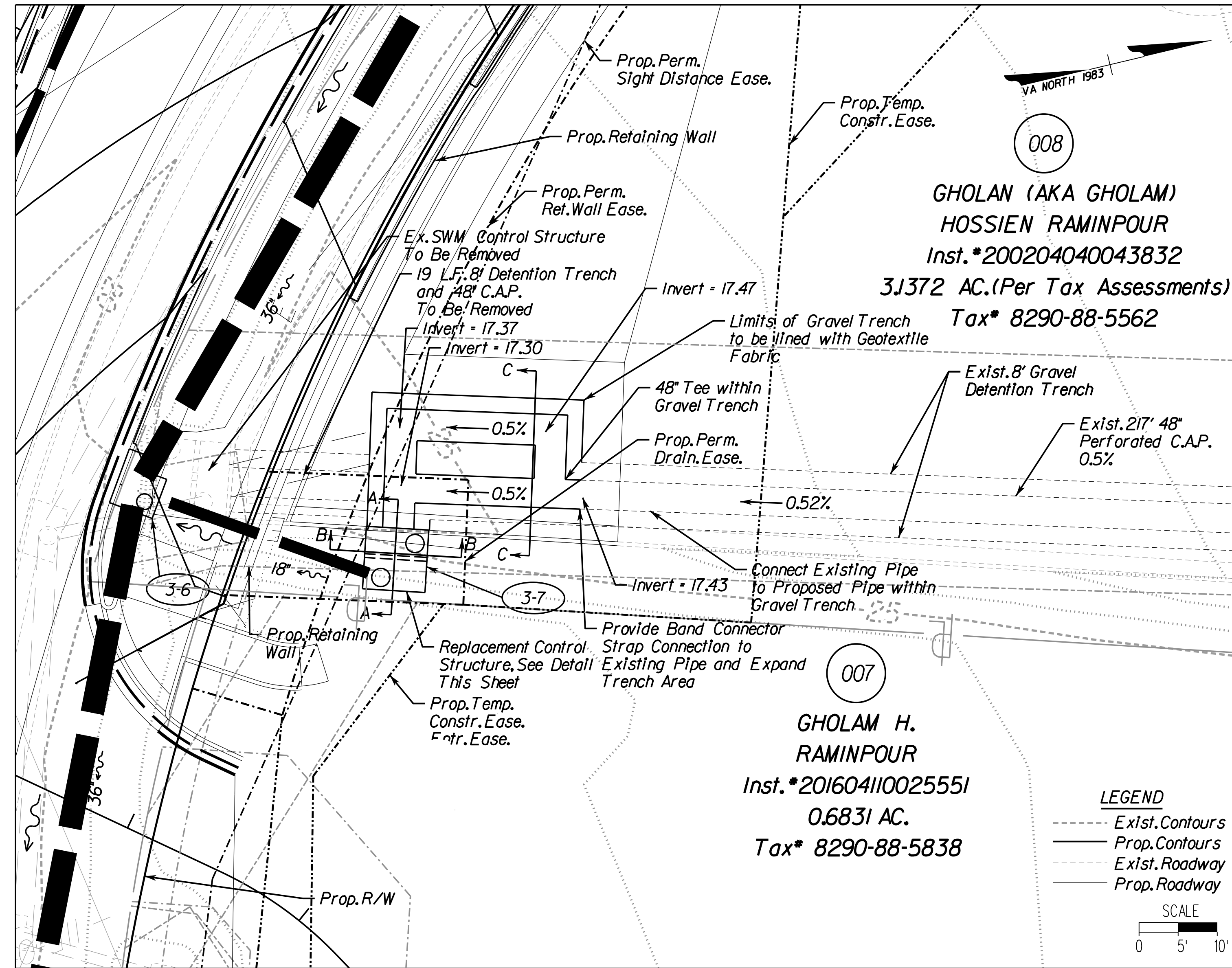
Koons SWM Detail

(To Be Maintained by Koons)

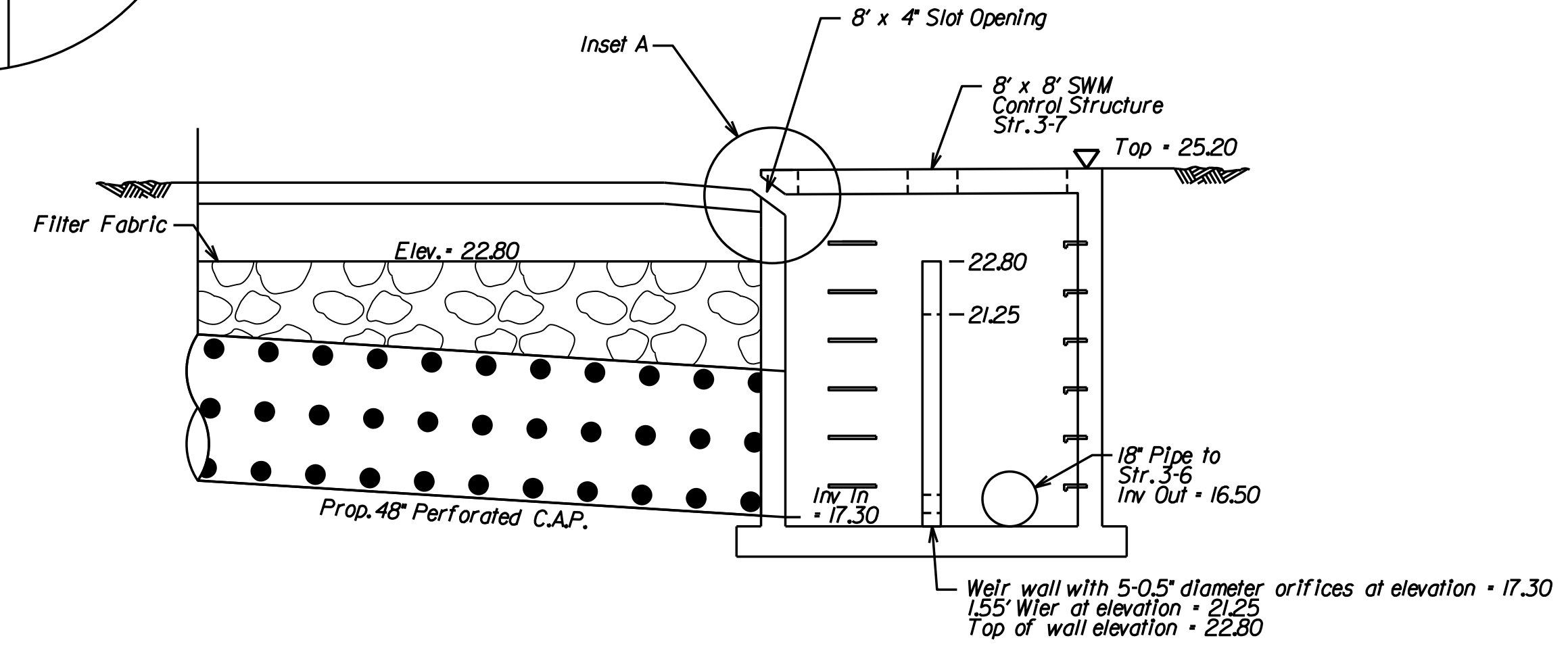
REVISED	STATE	ROUTE	STATE	VDOT PROJECT NO.	SHEET NO.
	VA.	638		0638-076-209	2M

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

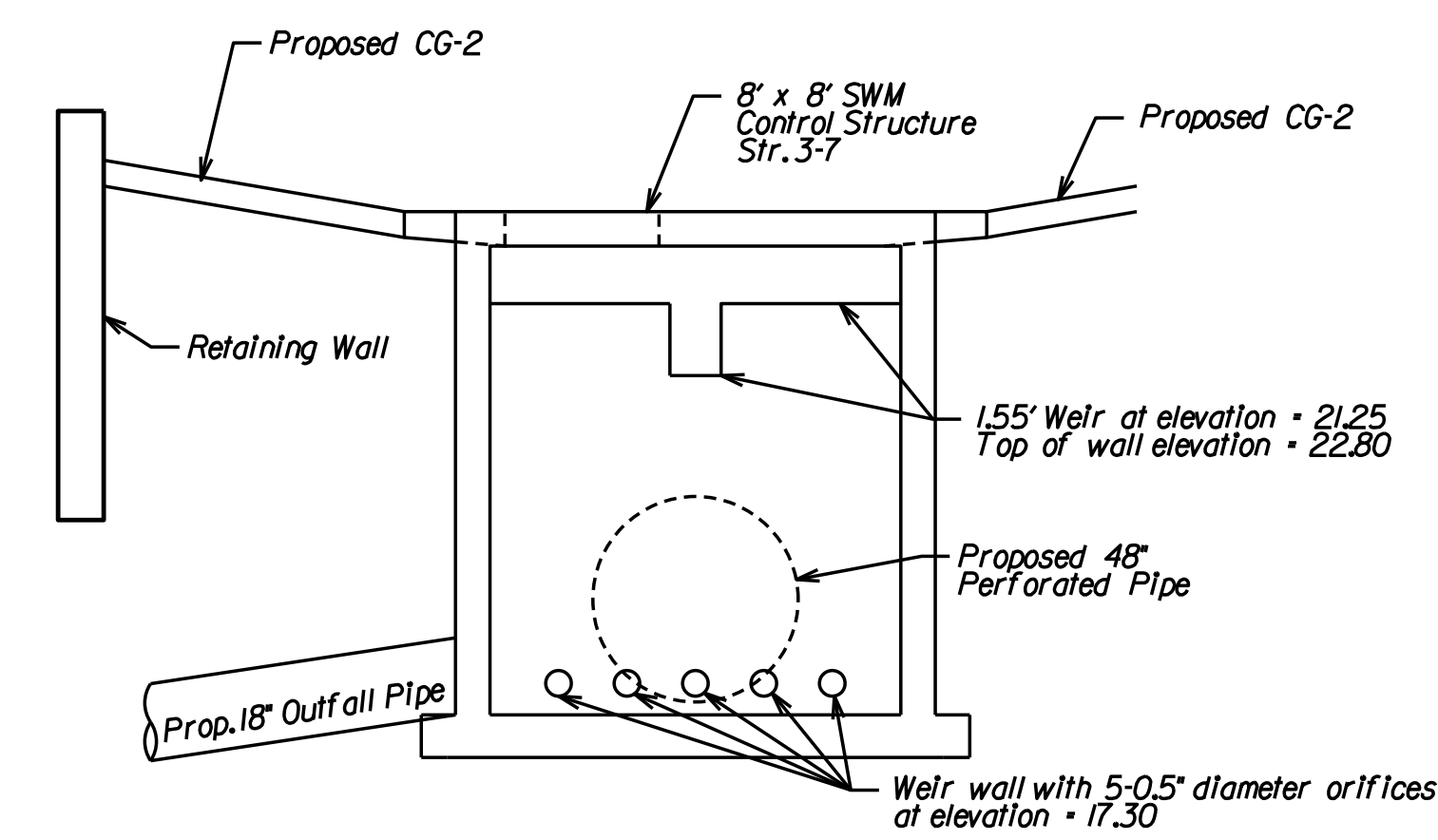
Rinker Design Assoc., P.C.
Fredericksburg, Virginia
(Hydraulics)



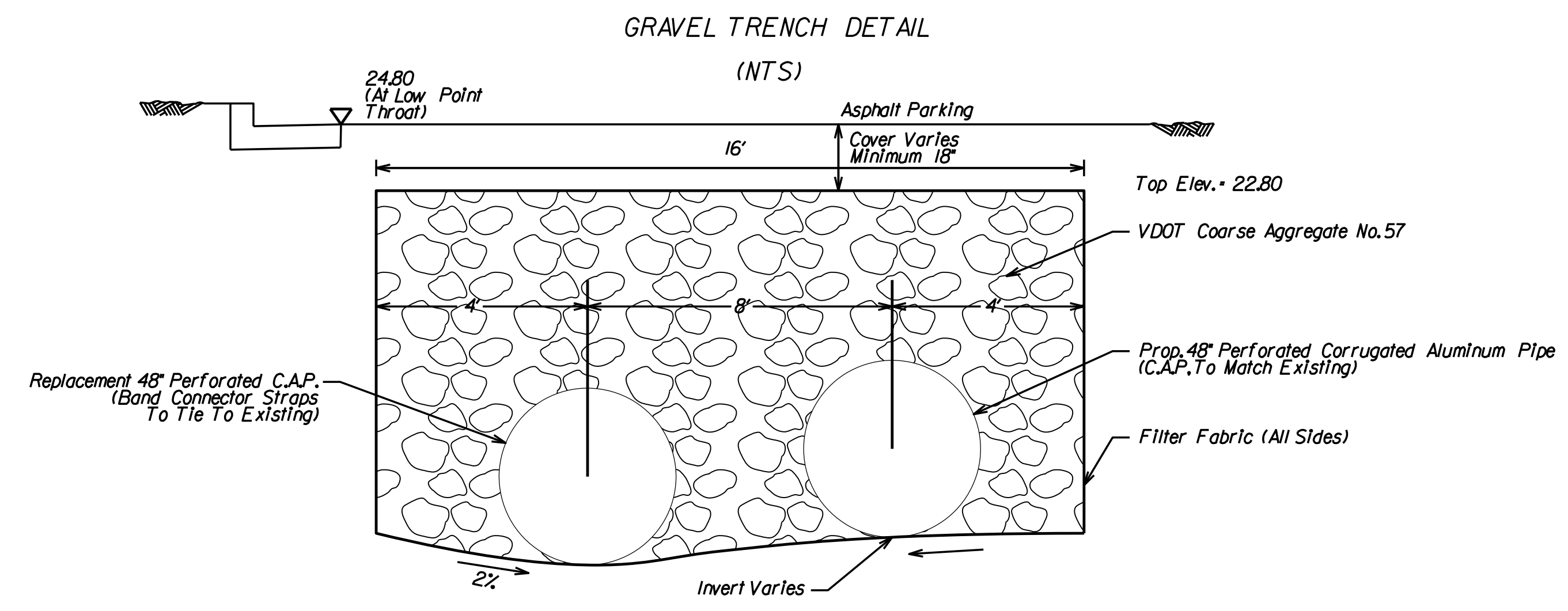
SWM Control Structure Detail (Str 3-7) (NTS)



Section A-A



Section B-B



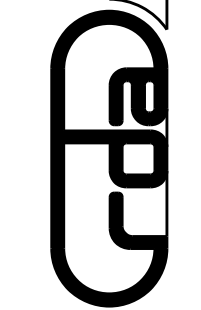
Section C-C

- Notes:**
- Elevations shown are based upon current survey of the existing structures. Elevation differences from record plans are due to vertical datum used for SP-88-46F. Replacement trench, pipe, and control structures are intended to restore original design capacity and operation.
 - Shop Drawing approval by the engineer and Prince William County is required prior to construction.
 - 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.
 - Maintenance responsibility for gravel trench and structure 3-7 to be conveyed to owner of parcel 008
 - Refer to Sheet 2K for Drainage Descriptions.

THESE PLANS ARE UNFINISHED AND UNAPPROVED AND ARE NOT TO BE USED FOR ANY TYPE OF CONSTRUCTION.

R/W PHASE PLANS

VDOT PROJECT NO. 0638-076-209 PWCDOT PROJECT NO. SPR2018-00271	SHEET NO. 2M
---	-----------------



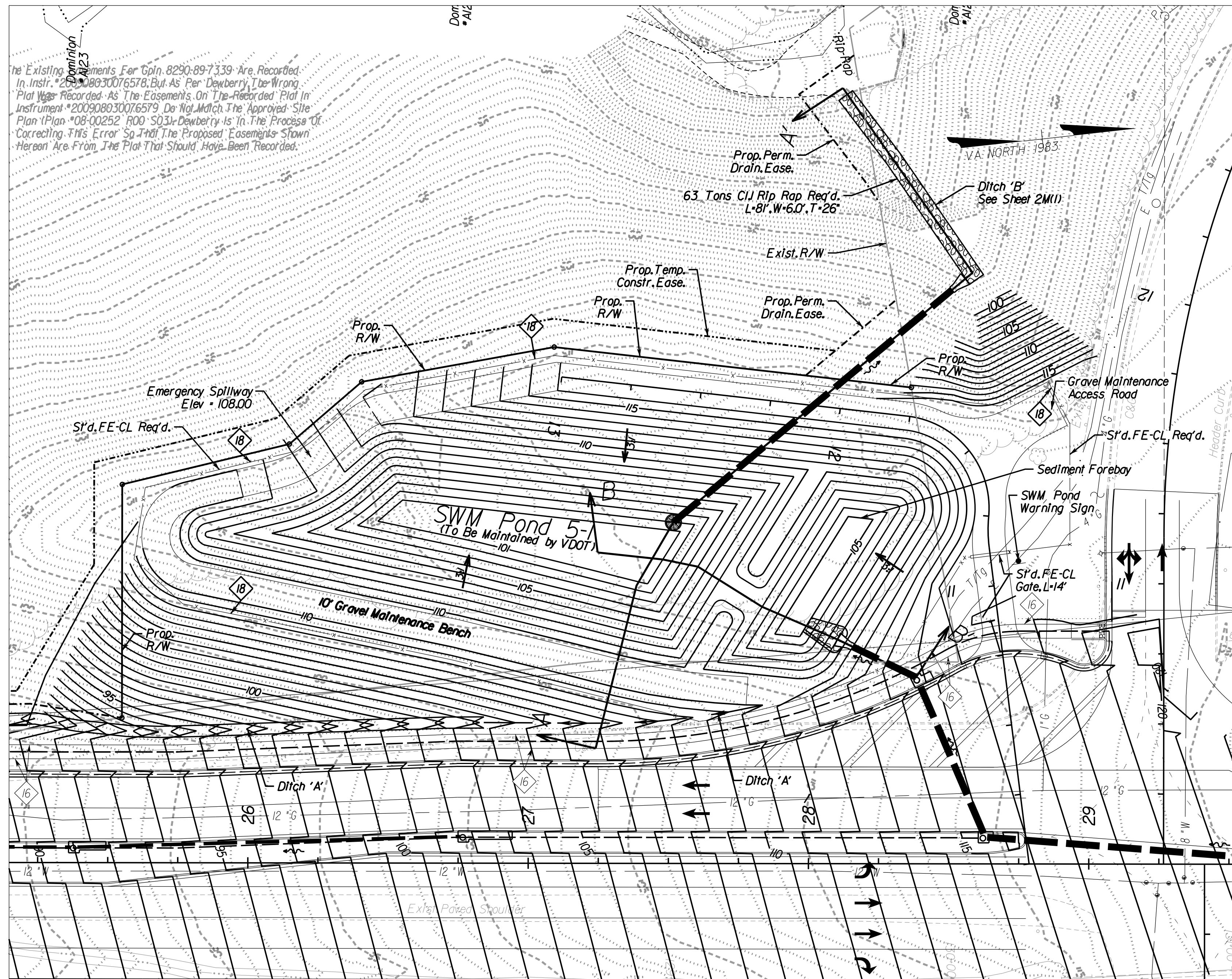
PROJECT MANAGER: EWCDOT - Khattab, Shammout, P.E. : (703) 792-7193
SURVEYED BY, DATE: RDA: Ryan Drealet, LS (703) 334-9302, July 3, 2017
DESIGN BY: RDA: Mack, Gunn, P.E. (703) 334-9288
SUBSURFACE UTILITY BY, DATE: Accurmark (703) 378-0100, August 1, 2017

SWM Pond 5-1

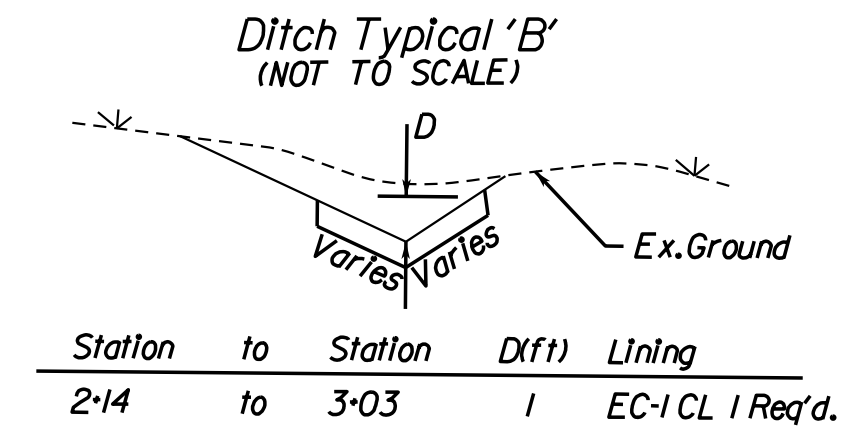
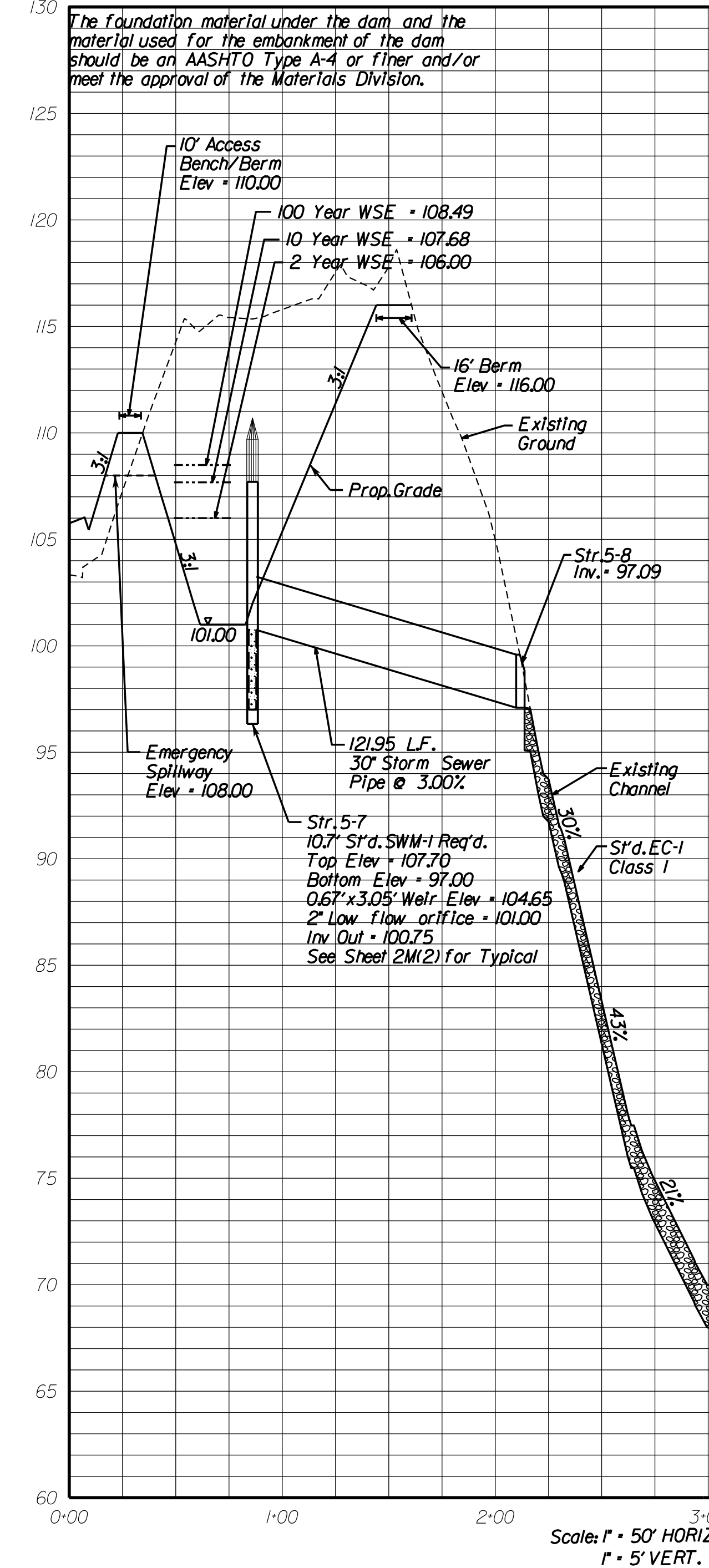
REVISED	STATE	ROUTE	STATE	VDOT PROJECT NO.	SHEET NO.
	VA.	638		0638-076-209 PE101 CS01 RW201	2M(1)

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

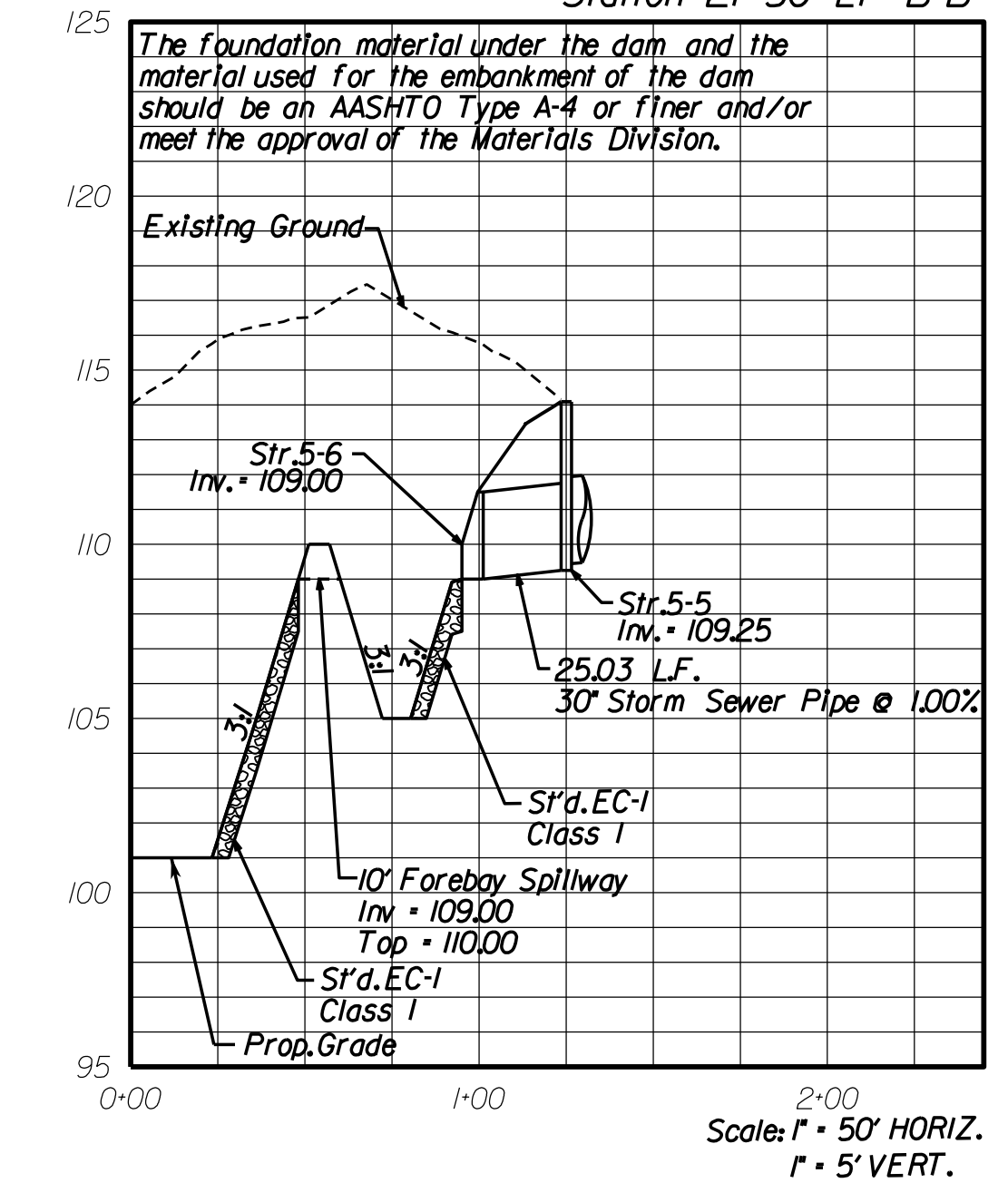
Rinker Design Assoc., P.C.
Fredericksburg, Virginia
(Hydraulics)



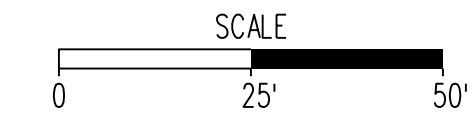
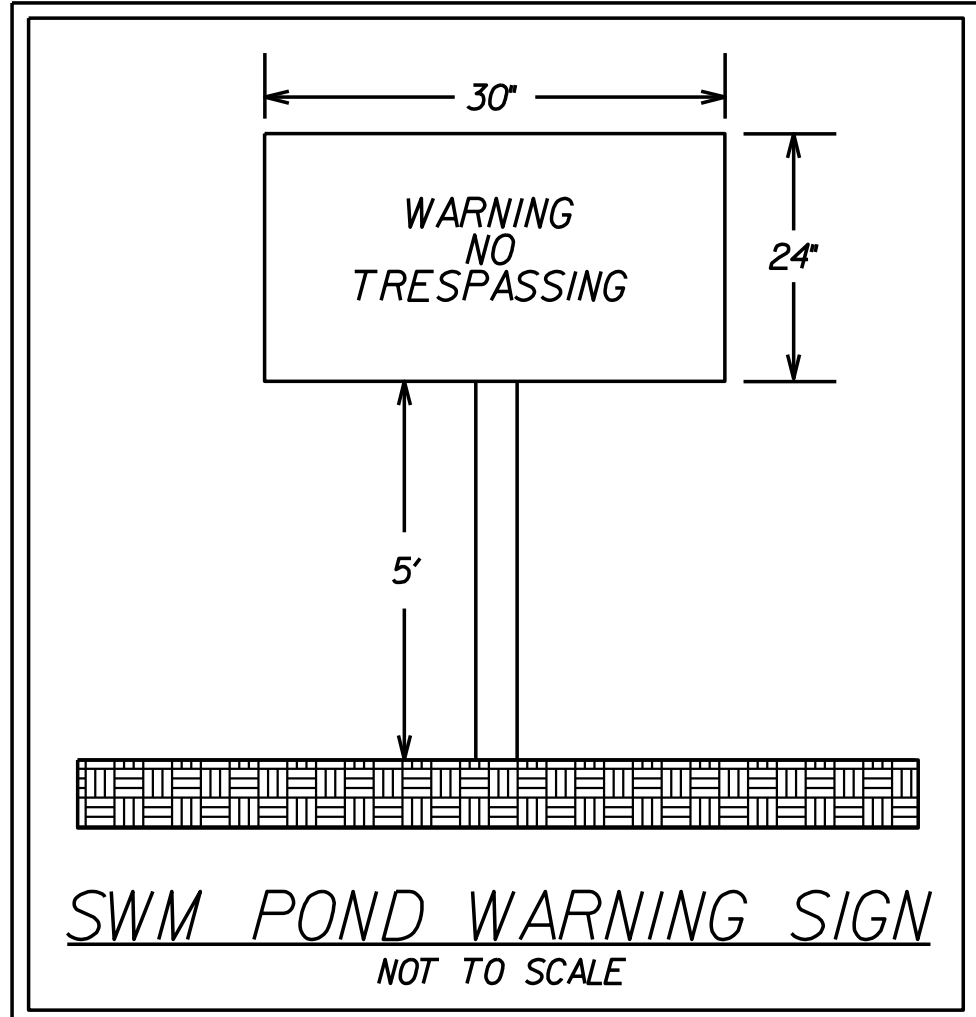
SWM Pond 5-1 Neabsco Mills Road Station 27+50 LT A-A'



SWM Pond 5-1 Neabsco Mills Road Station 27+50 LT B-B'



- Notes:**
- As-Built Drawing of Stormwater Management Facilities. The Contractor shall provide As-Built drawings of all stormwater management facilities. The As-Built drawings shall show the actual finished ground contours, outlet structure dimensions and elevations, etc. as they exist at the completion of the project. These drawings shall be signed and sealed by the Licensed Professional Engineer or Land Surveyor registered in the State of Virginia. All costs shall be included under Construction Surveying.
 - Inspections during critical stages of construction shall occur under direct supervision of a Virginia professional engineer to ensure that the facility is built per the approved plans and design.
 - This facility shall be maintained by Virginia Department of Transportation.
 - Refer to Sheet 2K for Drainage Descriptions.



Scale: 1" = 50' HORIZ.
1" = 5' VERT.

THESE PLANS ARE UNFINISHED AND UNAPPROVED AND ARE NOT TO BE USED FOR ANY TYPE OF CONSTRUCTION.

R/W PHASE PLANS

VDOT PROJECT NO. 0638-076-209 PWCDOT PROJECT NO. SPR2018-00271	SHEET NO. 2M(1)
---	--------------------

Rinker Design Associates, P.C.
Civil Engineering, Surveying, Environmental
Transportation
Right of Way Services

PROJECT MANAGER PWCDOT: Khattab, Shammout, P.E.: (703) 792-7193
SURVEYED BY, DATE RDA: Bryan Drea'lla, LS (703) 334-9302, July 3, 2017
DESIGN BY RDA: Mack, A. Gunn, P.E. (703) 334-9288
SUBSURFACE UTILITY BY, DATE Accurack (703) 378-0100, August 1, 2017

SWM Pond 5-1 Detail

REVISED	STATE	ROUTE	STATE VDOT PROJECT NO.	SHEET NO.
	VA.	638	0638-076-209 PE101 CS01 RW201	2M(2)

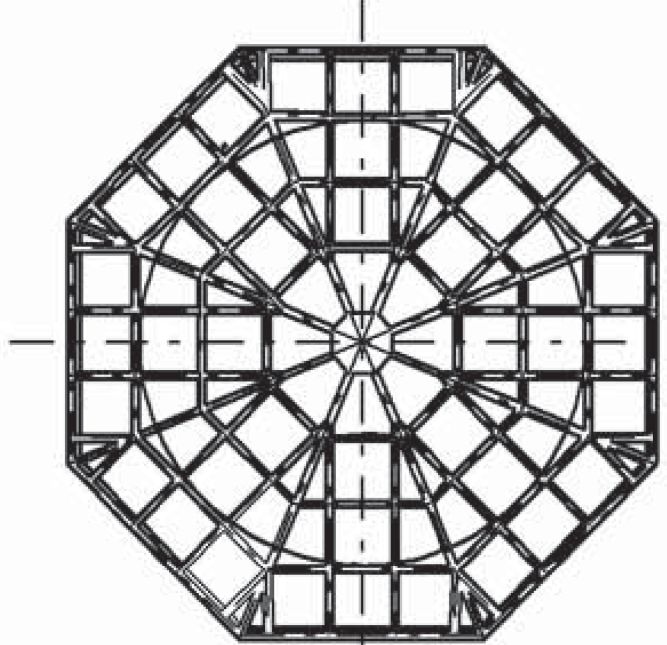
DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT

Rinker Design Assoc., P.C.
Fredericksburg, Virginia
(Hydraulics)

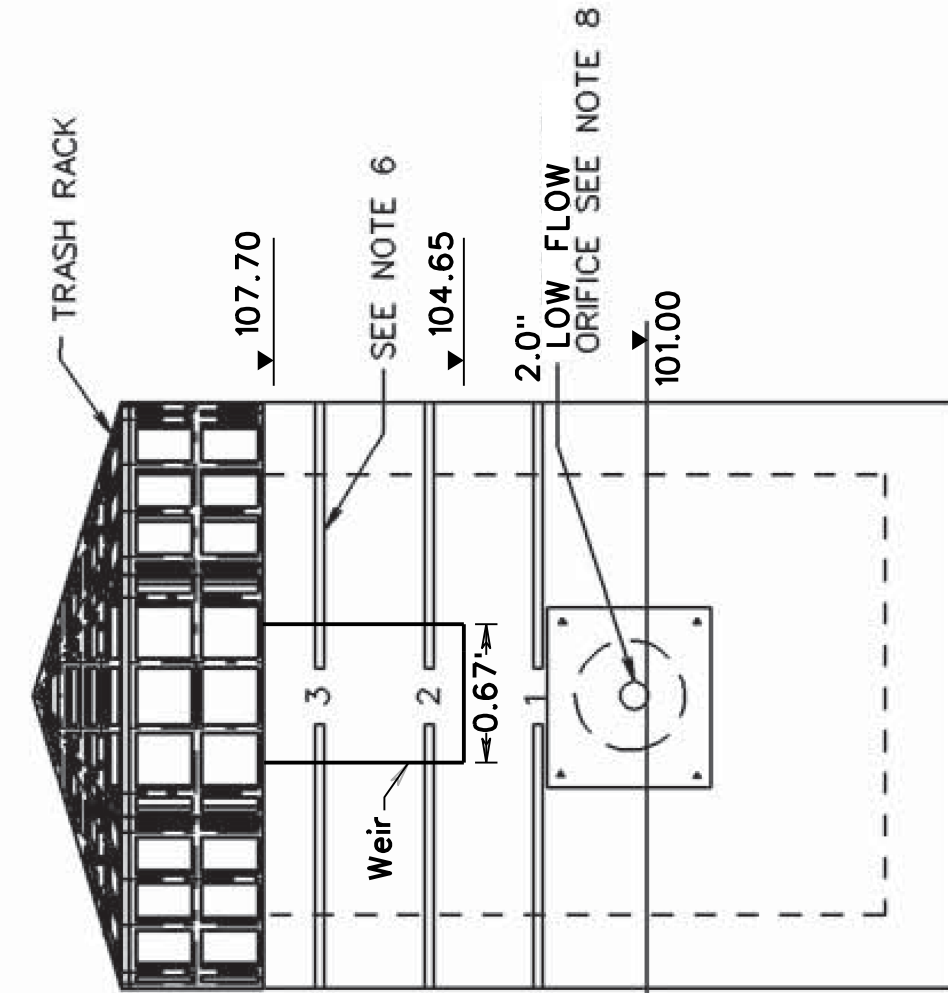
2016 ROAD & BRIDGE STANDARDS

NOTES:

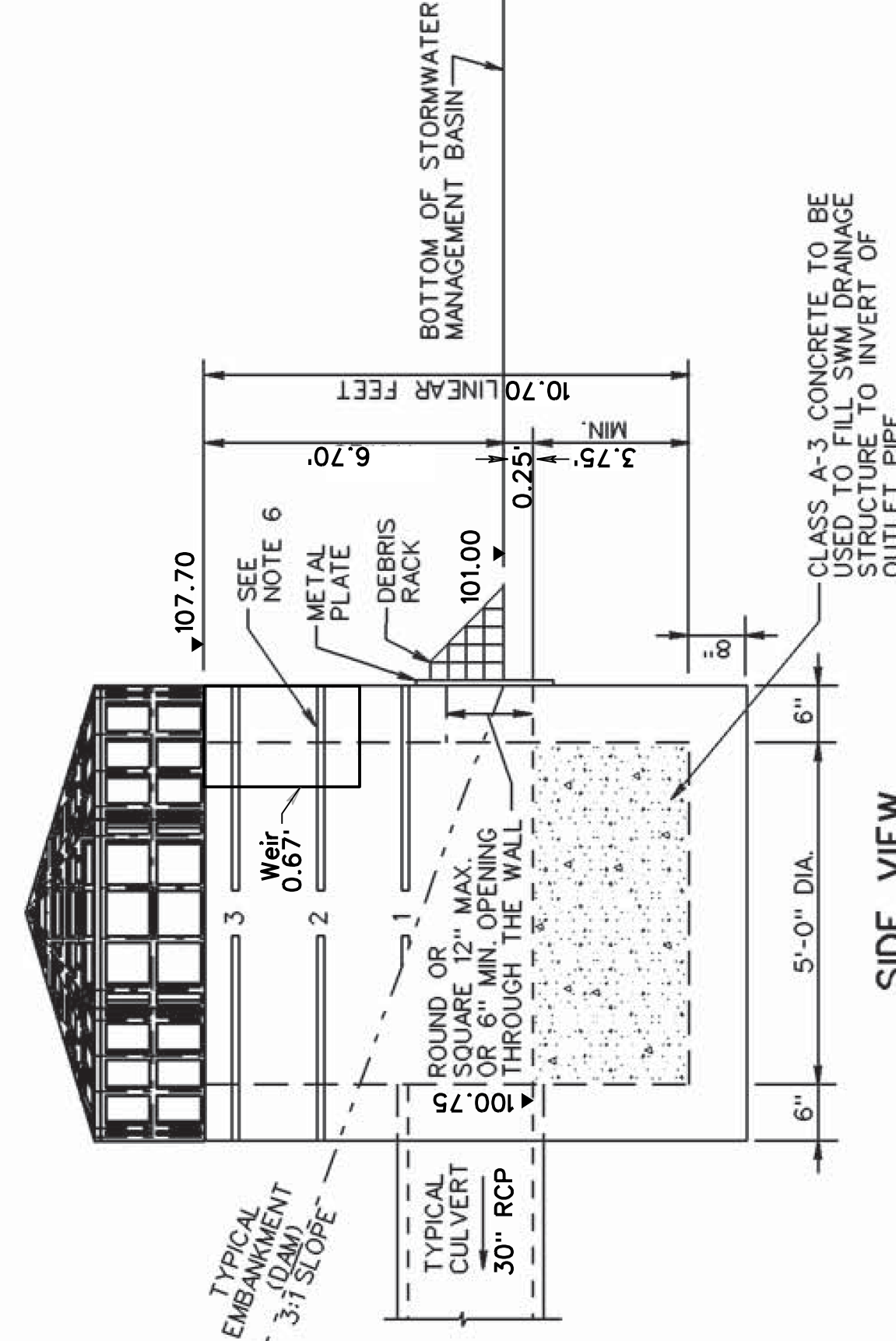
- COST OF TRASH RACK AND DEBRIS RACK ARE TO BE INCLUDED IN THE PRICE BID FOR THE STORMWATER MANAGEMENT DRAINAGE STRUCTURE.
- STRUCTURE MAY BE PRECAST OR CAST IN PLACE. SEE SHEET 1 OF 3 FOR DETAILS ON CAST IN PLACE STRUCTURE.
- WEEP HOLES SHALL NOT BE PROVIDED. ANY LIFT HOLES SHALL BE PLUGGED.
- STEPS ARE TO BE PROVIDED WHEN HEIGHT OF STRUCTURE IS 4'-0" OR GREATER ABOVE INVERT OF OUTLET PIPE. FOR STEP DETAILS SEE STANDARD S1-1.
- SEE STANDARD SWM-DR FOR DETAILS ON PLATE, DEBRIS RACK AND TRASH RACK.
- MARK HEIGHT OF STRUCTURE IN BLACK, WITH 4" HIGH NUMERALS AND 1" WIDE HORIZONTAL STRIPES AT 1' INTERVALS FROM INVERT OF WATER QUALITY ORIFICE (ALL VISIBLE SIDES).
- THE PERMANENT STORMWATER MANAGEMENT DRAINAGE STRUCTURE, STANDARD SWM-1 MAY BE MODIFIED WHERE THE STORMWATER MANAGEMENT BASIN IS TO BE USED AS A TEMPORARY SEDIMENT BASIN DURING PROJECT CONSTRUCTION; SEE STANDARD SWM-DR, SHEET 1 OF 5 FOR TEMPORARY MODIFICATION DETAILS.
- THE SIZE OF THE WATER QUALITY ORIFICE SHALL BE SPECIFIED ON THE PLANS. ADDITIONAL OPENINGS IN THE STORMWATER MANAGEMENT DRAINAGE STRUCTURE TO BE PROVIDED WHEN SPECIFIED ON THE PLANS.



PLAN VIEW



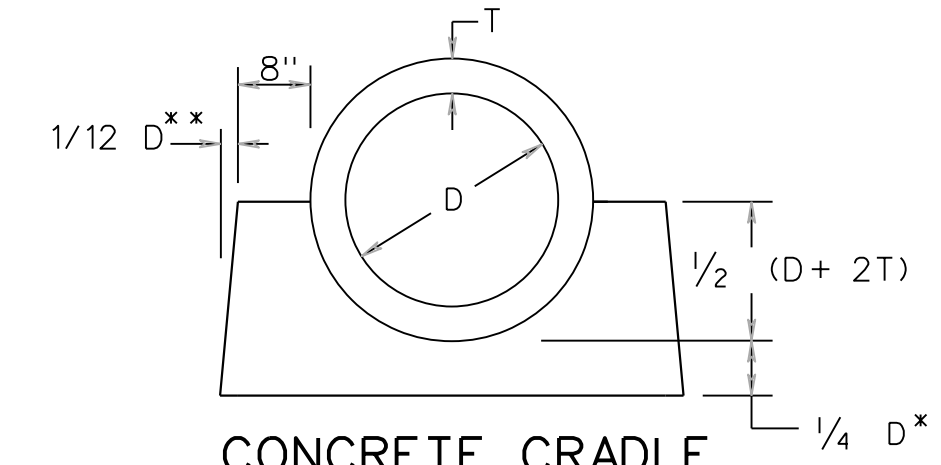
FRONT VIEW
(DEBRIS RACK NOT SHOWN)



SIDE VIEW
SWM DRAINAGE STRUCTURE

VDOT ROAD AND BRIDGE STANDARDS SHEET 2 OF 3 114.02	REVISION DATE 08/10	PRECAST STORMWATER MANAGEMENT DRAINAGE STRUCTURE (5-7)	SPECIFICATION REFERENCE 105 302
		VIRGINIA DEPARTMENT OF TRANSPORTATION	

2016 ROAD & BRIDGE STANDARDS



CONCRETE CRADLE

PIPE SIZE INCHES	CRADLE BOTTOM WIDTH (INCHES)	CRADLE HEIGHT (INCHES)	CRADLE TOP WIDTH (INCHES)	INCREMENT, IN CUBIC YARDS, PER LINEAR FOOT OF PIPE
12	34	14	32	0.093
15	38	15.75	35.5	0.110
18	42	17.5	39	0.129
24	50	21	46	0.168
30	58	26	53	0.233
36	66	31	60	0.307
42	74	36	67	0.390

- * CONCRETE SHALL BE CLASS A3 BUT NOT LESS THAN 6"
- ** IF THE PIPE IS LAID IN AN EXCAVATED TRENCH, THEN THE SIDE WALLS MAY CONFORM TO THE TRENCH SHAPE (IE THE TRENCH MAY BECOME THE CRADLE FORM).

CONCRETE CRADLE IS TO BE INSTALLED UNDER THE ENTIRE LENGTH OF CULVERT AT EACH STORMWATER MANAGEMENT BASIN.

CONCRETE CRADLE IS TO BE PAID FOR AS MISCELLANEOUS CONCRETE AND SUMMARIZED IN CUBIC YARDS FOR EACH PIPE LOCATION

- 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 Sheet 2K for Drainage Descriptions.

VDOT PROJECT NO. 0638-076-209 PWCDOT PROJECT NO. SPR2018-00271	SHEET NO. 2M(2)
---	--------------------

THESE PLANS ARE UNFINISHED AND UNAPPROVED AND ARE NOT TO BE USED FOR ANY TYPE OF CONSTRUCTION.

R/W PHASE PLANS

PROJECT MANAGER: *EWCDOT - Khattab, Shamout, P.E. (703) 792-7193*
 SURVEYED BY, DATE: *RDA: Bryan Dreelin, LS (703) 334-9302, July 3, 2017*
 DESIGN BY: *RDA: Mack, Gunn, P.E. (703) 334-9288*
 SUBSURFACE UTILITY BY, DATE: *Accurack (703) 378-0100, August 1, 2017*

SWM Pond 5-1 Detail

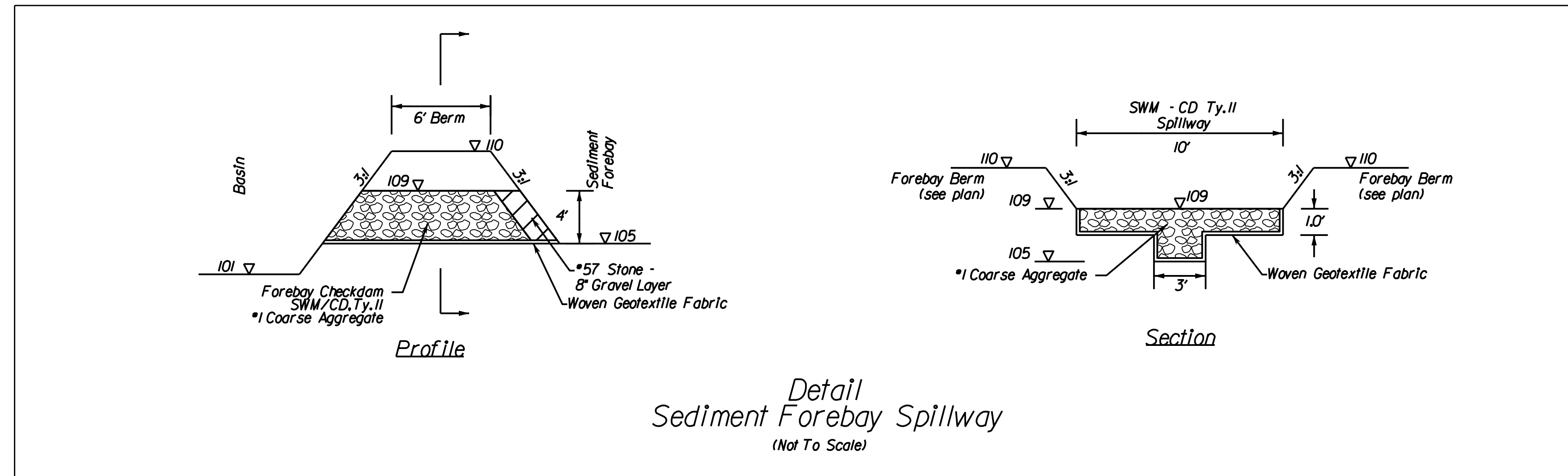
REVISED	STATE	ROUTE	STATE	VDOT PROJECT NO.	SHEET NO.
	VA.	638		0638-076-209 PE101 CS01 RW201	2M(3)

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
 (Hydraulics)

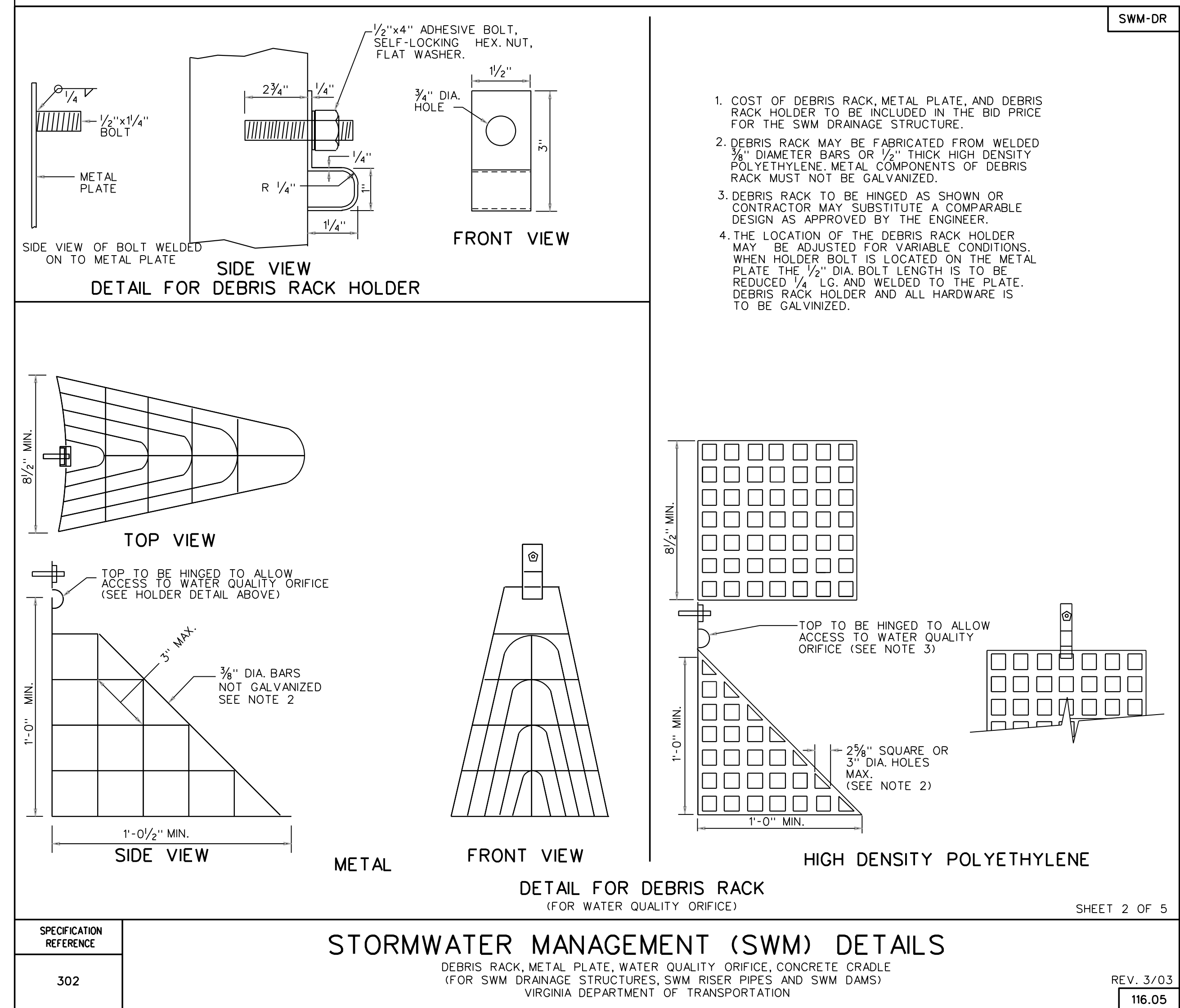
Notes:

- 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 Sheet 2K for Drainage Descriptions.



Detail
 Sediment Forebay Spillway
 (Not To Scale)

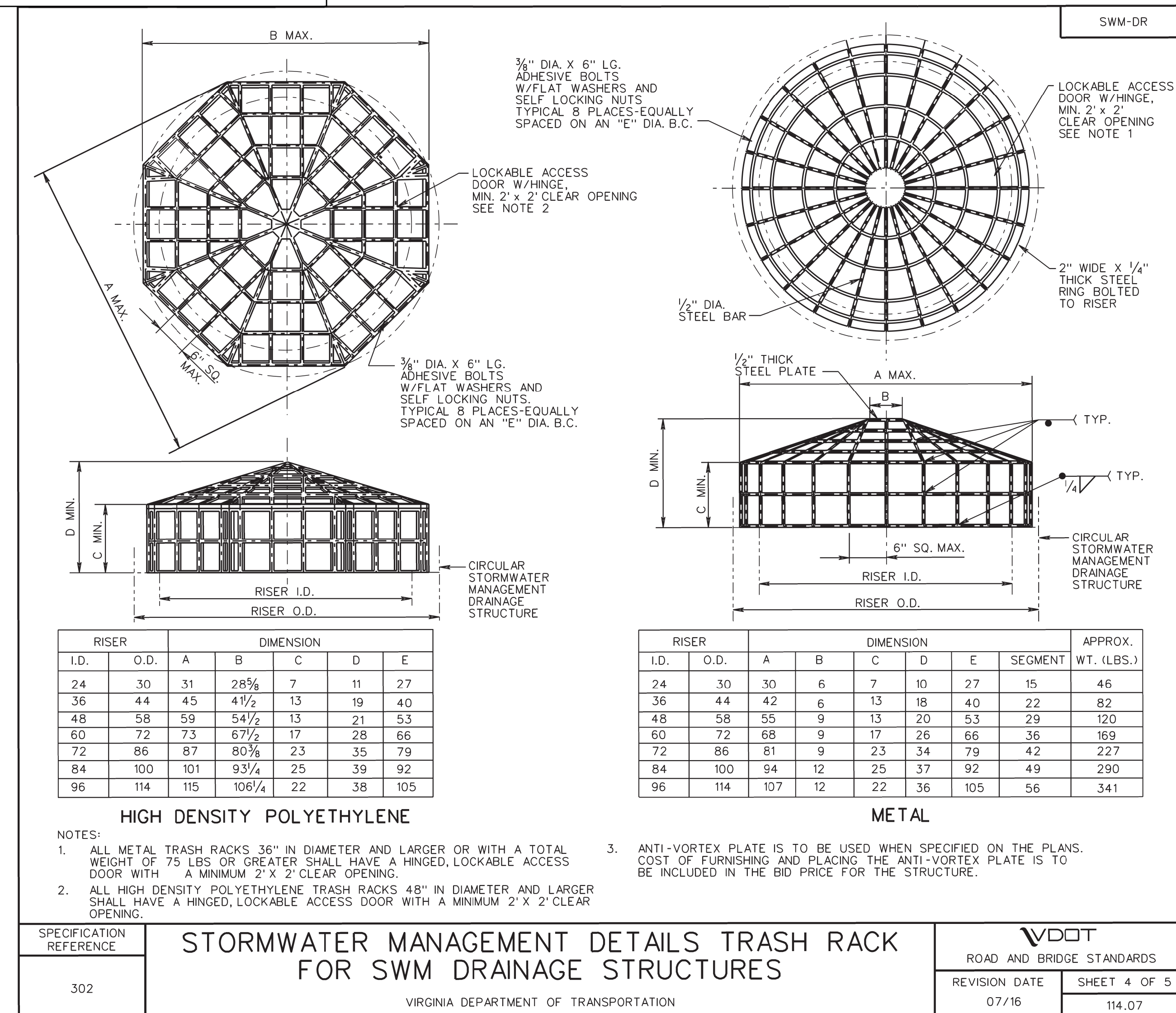
2016 ROAD & BRIDGE STANDARDS



STORMWATER MANAGEMENT (SWM) DETAILS

DEBRIS RACK, METAL PLATE, WATER QUALITY ORIFICE, CONCRETE CRADLE
 (FOR SWM DRAINAGE STRUCTURES, SWM RISER PIPES AND SWM DAMS)
 VIRGINIA DEPARTMENT OF TRANSPORTATION

REV. 3/03
 116.05



STORMWATER MANAGEMENT DETAILS TRASH RACK FOR SWM DRAINAGE STRUCTURES

VDOT
 ROAD AND BRIDGE STANDARDS

REVISION DATE: 07/16
 SHEET 4 OF 5
 114.07

2016 ROAD & BRIDGE STANDARDS

THESE PLANS ARE UNFINISHED AND UNAPPROVED AND ARE NOT TO BE USED FOR ANY TYPE OF CONSTRUCTION.

R/W PHASE PLANS

VDOT PROJECT NO. 0638-076-209
 PWCDOT PROJECT NO. SPR2018-00271
 SHEET NO. 2M(3)

PROJECT MANAGER: EWCDOT - Khattab, Shammout, P.E. : (703) 792-7193
SURVEYED BY, DATE: RDA: Bryan Dreelin, LS (703) 334-9302, July 3, 2017
DESIGN BY: RDA: Mack, A. Gunn, P.E. (703) 334-9288
SUBSURFACE UTILITY: BY, DATE: Accurmark, (703) 378-0100, August 1, 2017

STORMWATER POLLUTION PREVENTION PLAN (SWPPP) GENERAL INFORMATION SHEET

See Sheet 2 of 3 for Acronyms

Table with columns: REVISED, STATE, ROUTE, STATE, VDOT PROJECT NO., SHEET NO. Values: VA, 638, 0638-076-209 PE101 CS01 RW201, 2N

The information contained in the SWPPP General Information sheets is intended to comply with the requirements of the VPDES General Permit For Discharges Of Stormwater From Construction Activities (the VPDES Construction Permit) issued July 1, 2014 and VDOT's approved Annual ESC and SWM Standards and Specifications.

The SWPPP General Information sheets are to be completed and included in the construction plan set (or other such documents) for land disturbance (construction) activities that disturb an area equal to or greater than 10,000 square feet, or equal to or greater than 2,500 square feet in the area defined as Tidewater, Virginia in the Virginia Chesapeake Bay Preservation Act.

The VDOT RLD will ensure that the information shown on the SWPPP General Information sheets is updated/revised as necessary in order to reflect changes that may occur during the construction phase of the land disturbing (construction) activity. The updated/revised sheets shall be maintained with the designated record set of plans (or other such documents) for the land disturbance (construction) activity.

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

X Denotes information that is to be provided/completed by the VDOT RLD.
XX Denotes information that is to be provided/completed by the contractor.

SECTION I GENERAL INFORMATION

1. Activity Description - The Project is located on Neabsco Mills Road (Route 638) from approximately Jefferson Davis Highway (Route 1) to Smoke Court (Route 1782), approximately 0.95 miles. The project includes widening of the existing roadway to a four-lane divided roadway. The proposed improvements include: the addition of a shared use path and sidewalk, along the east and west of Route 638, the addition of one 11-foot-wide travel lane in each direction, and full-depth reconstruction and mill and overlay of the existing lanes.

2. This land disturbance (construction) activity site is located in Prince William County and approximately 13.38 acres will be disturbed by excavation, grading or other construction activities.

3. This proposed activity disturbs one acre or greater and requires coverage under the VPDES General Permit For Discharges Of Stormwater From Construction Activities (the VPDES Construction Permit) as issued by the DEQ. A copy of the VPDES Construction Permit (VAR10), the registration information (LD-445 form) and the permit coverage letter received from DEQ shall be maintained with other SWPPP documents for this land disturbing (construction) activity.

XX 4. The location of on-site support facilities that will be covered under the VPDES Construction Permit coverage for this land disturbance (construction) activity shall be provided by the contractor and identified on the record set of plans or in other appropriate contract documents. Support facilities shall include, but not be limited to, borrow and disposal areas, construction and waste material storage areas, equipment and vehicle washing, maintenance, storage and fueling areas, storage areas for fertilizers, fuels or chemicals, concrete wash out areas, sanitary waste facilities and any other areas that may generate a stormwater or non-stormwater discharge directly related to the construction site.

XX 5. Evidence of permit coverage shall be provided by the contractor for all support activities located outside of VDOT right of way or easement in the form of the Construction General Permit coverage letter: (List permit number when applicable)

6. List the surface waters that have been identified as impaired in the DEQ 2012 305(b)/303(d) Water Quality Assessment Integrated Report for sediment, total suspended solids, turbidity, nitrogen or phosphorus. These pollutants are considered benthic impairments:
- Neabsco Creek - impaired for recreational uses because of Escherichia coli.

7. Identify the TMDLs where stormwater from construction activities discharges into a watershed with a TMDL waste load allocation established and approved by the State Water Control Board prior to July 1, 2014 for sediment, total suspended solids, turbidity, nitrogen or phosphorus:
N/A

8. This land disturbance (construction) activity discharges stormwater to the following surface waters that have been identified as exceptional in Section 9VAC25-260-30 A 3 c of the Virginia Administrative Code:
N/A

9. Locations of surface waters and locations where concentrated stormwater is discharged from this land disturbance (construction) activity are identified in the construction plan set (or other such documents) for this land disturbance (construction) activity.

10. The ESC and SWM plans (where applicable) for this land disturbance (construction) activity have been developed in accordance with VDOT's Annual Erosion and Sediment Control and Stormwater Management Standards and Specifications as approved by the DEQ.

11. (a) List the RLD for the land disturbance activity: (required for erosion and sediment control)
(b) The following individual(s) has delegated authority to sign all reports required by the construction permit including the SWPPP (LD445E) and inspection reports. The individual(s) has overall responsibility for environmental matters for the project: (required only for permitted projects)

Table with columns: Name, Position. Includes blank rows for entries.

X 12. The name of the individual(s) responsible for the inspection of the erosion and sediment control and pollution prevention measures on this land disturbance (construction) activity is identified on the LD-445E form which will be maintained with the other SWPPP documents for this land disturbance (construction) activity (Note: Individual(s) shall be certified through the DEQ ESC Inspector Certification Program and shall be knowledgeable in the area of pollution prevention at construction sites and shall be a VDOT employee or an agent working for VDOT.)

X 13. The ESC and P2 inspections for this land disturbing (construction) activity shall follow either Schedule 1 or 2 as defined in Section 107.16(e) of the VDOT Road & Bridge Specifications Special Provision S107J31. Rain gage notes apply only to Inspection Schedule 1.

XX 14. The location of the on-site rain gage that will be used to determine the occurrence of a measurable storm event for the purposes of ESC and Pollution Prevention inspections will be provided by the contractor and identified on the record set of plans or in other appropriate SWPPP documents for this land disturbance (construction) activity: (List location of rain gage)

The rain gage shall be observed daily at 10:00 AM to determine the occurrence of a measurable storm event (i.e., 0.25 inches of rainfall or greater in a 24 hour period). A log book shall be maintained to record observation information which shall include (1) the date, (2) the time, (3) whether or not rainfall is occurring at the time of the observation, (4) the amount of accumulated rainfall in the gage, if any, and (5) whether or not an inspection is required based on the amount of accumulated rainfall in the gage.

If there is no rainfall occurring at the time of the observation, the observation information shall be noted in the log book and the rain gage emptied and replaced. An inspection is required if there is 0.25 inches or more accumulation noted in the rain gage.

If there is rainfall occurring at the time of the observation, the observation information is to be noted in the log book. The rain gage is not to be emptied but left to accumulate additional rainfall until the conclusion of the rainfall event. At the conclusion of the rainfall event, an observation of the rain gage shall be made and the observation information shall be noted in the log book and the rain gage emptied and replaced. An inspection is required if there is 0.25 inches or more accumulation noted in the rain gage.

- 15. The following VDOT documents serve the purpose of a) permitted projects b) non-permitted projects in Chesapeake Bay Preservation Areas (CBPA) with 2,500 S.F. to 1.0 acre of land disturbance c) non-permitted projects requiring a SWPPP and d) Non-permitted, Non-CBPA with BMP projects that have a water quantity BMP:
VDOT LD-445: Permitted projects, CBPA projects and Non-permitted, Non-CBPA with BMP projects that have a water quantity BMP.
VDOT LD-445A: Permitted projects only.
VDOT LD-445B: Permitted projects only.
VDOT LD-445C: Projects that require a permit or SWPPP.
VDOT LD-445D: Permitted projects, CBPA projects and Non-permitted, Non-CBPA with BMP projects that have a water quantity BMP.
VDOT LD-445E: Permitted projects only.
VDOT LD-445F: Emergency work projects (when applicable).
VDOT LD-445G: Permitted and CBPA projects requesting a Water Quality Requirement Exception (when applicable).
VDOT LD-445H: Permitted projects only.
VDOT C-107 Part I and Part II: All projects that require a permit or SWPPP.

SECTION II EROSION AND SEDIMENT CONTROL

1. The following variances to the Virginia ESC Regulations have been approved by the DEQ for this land disturbance (construction) activity: (list all approved variances: include a brief description of the variance, the date approved and the approving DEQ Office)

XX 2. The intended sequence and timing of activities that disturb soils at the site (e.g., grubbing, excavation, grading, utilities and infrastructure installation, etc.) shall be provided by the contractor in accordance with Section 108.03 of the VDOT R&B Specifications and shall be included with the other SWPPP documents for this land disturbance (construction) activity.

3. Directions of stormwater flow and approximate slopes anticipated after major grading activities are identified in the construction plan set (or other such documents) for this land disturbance (construction) activity.

4. Areas of soil disturbance and areas of the site which will not be disturbed are identified in the construction plan set (or other such documents) for this land disturbance (construction) activity.

5. Locations of major structural and nonstructural ESC measures intended to filter, settle or similarly remove sediment are identified in the construction plan set (or other such documents) for this land disturbance (construction) activity.

6. Locations where stabilization practices are expected to occur are identified in the construction plan set (or other such documents) for this land disturbance (construction) activity.

7. A description of interim and permanent stabilization practices for the site are identified in the applicable sections of the documents identified in the Note 1 of Section III.

XX 8. A record of the dates when major grading activities occur, when construction activities temporarily or permanently cease on a portion of the site, and when stabilization measures are initiated will be provided by the contractor and maintained with the record set of plans or other SWPPP documents for this land disturbance (construction) activity: (List how this will be tracked and the location)

9. A description and schedule of procedures to maintain vegetation, erosion and sediment control measures and other protective measures in good and effective operating conditions are identified in Sections 107.16 and 303.03 of the VDOT R&B Specifications.

10. Nutrients shall be applied in accordance with Sections 603 and 604 of the VDOT Road and Bridge Specifications. Nutrients shall not be applied during rainfall events.

11. All engineering calculations supporting the design of erosion and sediment control measures proposed for this land disturbance (construction) activity are contained in the project drainage file located in the VDOT NOVA District Hydraulics Section and will be made available for review upon request during normal business hours.

12. The temporary erosion and siltation control items shown on the ESC Plan for this land disturbing (construction) activity are intended to provide a general plan for controlling erosion and sediment within the project limits. The ESC Plan is based on field conditions at the time of plan development and an assumed sequence of construction for the project. The contractor, in conjunction with the VDOT Project Engineer and/or ESC Inspector, shall adjust the location, quantity and type of erosion and sediment control items required based on the actual field conditions encountered at the time of construction and the actual scheduling and sequencing of the construction activities. Significant changes to the proposed ESC Plan (e.g., those that require an engineering analysis) shall be submitted to the applicable District Hydraulics Engineer for review and approval. Any changes to the proposed ESC Plan must be noted on the designated record set of plans which shall be retained on the project site and made available upon request during normal business hours.

13. The areas beyond the project's construction area are to be protected from siltation. Perimeter controls such as silt fence, diversion dikes, turbidity curtains, etc. shall be installed prior to any grubbing operations or other earth moving activities.

14. Temporary earthen structures such as dikes and berms are to be stabilized immediately upon installation. Stabilization may include temporary or permanent seeding, riprap, aggregate, sod, mulching, and/or soil stabilization blankets and matting in conjunction with seeding.

15. All channel relocations are to be constructed during the earliest stage of construction and shall be constructed in accordance with all applicable permit requirements and shall be constructed in the dry wherever possible. Stabilization or vegetation shall be established before flow is redirected through the constructed area as directed by the Engineer.

- 16. The contractor shall plan and implement his land disturbance operations in order to:
a. Control the volume and velocity of stormwater runoff within the site to minimize erosion.
b. Control the peak flow rates, volume and velocity of stormwater discharges to minimize erosion at outlets and in downstream channels.
c. Minimize the amount of soil exposed.
d. Minimize the disturbance of steep slopes.
e. Minimize sediment discharge from the site.
f. Provide and maintain natural buffers around surface waters, direct stormwater runoff to vegetated areas and maximize stormwater infiltration, unless infeasible.
g. Minimize soil compaction (except in those areas where compaction is required by the contract documents) and preserve topsoil where feasible.

XX 17. The name of the individual(s) or contractor(s) responsible for the installation and maintenance of the erosion and sediment control measures shall be supplied by the contractor and maintained with the other SWPPP documents for this land disturbance (construction) activity.

18. Soil stockpiles temporarily placed within the project area or on VDOT right of way or easement shall be stabilized or protected with sediment trapping measures.

19. A construction entrance or other approved measure shall be installed at all locations where construction vehicular traffic access routes intersect a paved or a public road in order to minimize the transport of sediment by vehicular tracking onto the paved surface. Where sediment is transported onto a paved or a public road surface, the road shall be cleaned thoroughly at the end of each work day by shoveling or sweeping. Removed sediment shall be disposed of in accordance with Section 106.04 of the R&B Specifications.



PROJECT MANAGER *EWCDOT - Khattab, Shamouh, P.E. (703) 792-7193*
SURVEYED BY, DATE *RDAs: Bryan Drea/LS (703) 334-9302, July 3, 2017*
DESIGN BY *RDAs: Mack, A. Gunn, P.E. (703) 334-9288*
SUBSURFACE UTILITY BY, DATE *Accumark (703) 378-0100, August 1, 2017*

STORMWATER POLLUTION PREVENTION PLAN (SWPPP) GENERAL INFORMATION SHEET

The information contained in the SWPPP General Information sheets is intended to comply with the requirements of the VPDES General Permit For Discharges Of Stormwater From Construction Activities (the VPDES Construction Permit) issued July 1, 2014 and VDOT's approved Annual ESC and SWM Standards and Specifications.

The SWPPP General Information sheets are to be completed and included in the construction plan set (or other such documents) for land disturbance (construction) activities that disturb an area equal to or greater than 10,000 square feet, or equal to or greater than 2,500 square feet in the area defined as Tidewater, Virginia in the Virginia Chesapeake Bay Preservation Act.

The VDOT RLD will ensure that the information shown on the SWPPP General Information sheets is updated/revised as necessary in order to reflect changes that may occur during the construction phase of the land disturbing (construction) activity. The updated/revised sheets shall be maintained with the designated record set of plans (or other such documents) for the land disturbance (construction) activity.

SECTION III SWPPP

1. All documents related to the SWPPP for this land disturbance (construction) activity shall be maintained at the activity site and shall be readily available for review upon request during normal business hours. Such documents include, but are not limited to, the construction plans (or other such documents), the ESC Plan, the Pollution Prevention Plan, the post construction SWM Plan (if applicable), the VDOT R&B Standards and Specifications, Supplemental Specifications, Special Provisions and Special Provision Copied Notes. Documents related to stormwater pollution prevention which are not a part of those documents referenced above, such as a copies of the VPDES Construction Permit coverage letter (when applicable) and the VPDES General Permit For Discharges Of Stormwater From Construction Activities (when applicable) and those required to be developed by the contractor for pollution prevention associated with any on-site support facilities being included in the VPDES Construction Permit coverage for this land disturbance (construction) activity are to be maintained at the activity site with the other SWPPP documents for this land disturbance (construction) activity. Where no facilities are available at the activity site to maintain the SWPPP documents, they are to be kept by or with the designated RLD at a location convenient to the activity site where they would be made available for review upon request during normal business hours.

2. The SWPPP and any subsequent amendments, modifications and updates shall be implemented from commencement of land disturbance until termination of VPDES Construction Permit coverage or completion of land disturbance (construction) activities where no VPDES Construction Permit coverage is required.

✖ 3. For all on-site support facilities that will be included in the VPDES Construction Permit coverage for this land disturbance (construction) activity, the contractor shall develop a SWPPP in accordance with, but not limited to, Section 106.08, 107.02 and 107.16 of the VDOT Road and Bridge Specifications. The SWPPP for the on-site support facilities shall be maintained with and become a component of the SWPPP for this land disturbance (construction) activity. Support facilities shall include, but not be limited to, borrow and disposal areas, construction and waste material storage areas, equipment and vehicle washing, maintenance, storage and fueling areas, storage areas for fertilizers, fuels or chemicals, concrete wash out areas, sanitary waste facilities and any other areas that may generate a stormwater or non-stormwater discharge directly related to the construction site.

✖ 4. By completing and submitting the SWPPP Certification form LD-445E, the RLD, or his authorized representative, certifies that all documents identified herein to be supplied by the contractor will be reviewed, approved (as applicable) and included with the other SWPPP documents for this land disturbance (construction) activity prior to start of work in those areas identified by such information.

5. For those land disturbing (construction) activities requiring coverage under the VPDES Construction Permit, the SWPPP shall be made available for review upon the request of the DEQ, the EPA, the VSMP Authority, the VESCP Authority, local government officials or the operator of a municipal separate storm sewer system (MS4) receiving discharge from the construction site.

✖ 6. For those land disturbing (construction) activities requiring coverage under the VPDES Construction Permit, the VDOT RLD shall post, or have posted, a copy of the General Permit coverage letter and a copy of a completed LD-445A form, noting the name and contact information for the VDOT person responsible for the land disturbing (construction) activity and its SWPPP, outside the project's construction office along with other Federal and State mandated information. Where there is no construction office (e.g., a maintenance activity), the permit coverage letter and the LD-445A form are to be maintained with the other SWPPP documents for the land disturbing (construction) activity.

7. The SWPPP shall be made available for review by the public upon request. Such reviews shall be at a time and publicly accessible location convenient to the VDOT and shall be scheduled during normal business hours and no less than once per month.

ACRONYMS

- | | |
|--|---|
| BMP - Best Management Practice | TMDL - Total Maximum Daily Load |
| DEQ - Department of Environmental Quality | VDOT - Virginia Department of Transportation |
| EPA - U.S. Environmental Protection Agency | VPDES - Virginia Pollutant Discharge Elimination System |
| ESC - Erosion and Sediment Control | VSMP - Virginia Stormwater Management Program |
| IIM - Instructional and Informational Memorandum | VESCP - Virginia Erosion and Sediment Control Program |
| R&B - Road and Bridge | |
| RLD - Responsible Land Disturber | |
| SWM - Stormwater Management | |
| SWPPP - Stormwater Pollution Prevention Plan | |

SECTION IV POST CONSTRUCTION STORMWATER MANAGEMENT

Choose the appropriate note 1 or 2 that is applicable to the proposed post construction SWM Plan for this land disturbance (construction) activity. (Delete, strikethrough or mark as NA those notes not applicable.)

~~N/A 1. This land disturbance (construction) activity is grandfathered under Section 9VAC25-870-48 of the VSMP Regulations and utilizes the Part IIC technical criteria (i.e., Performance or Technology Based, MS-19, etc.) in Section 9VAC25-870-93 et seq. of the VSMP Regulations.~~

2. This land disturbance (construction) activity utilizes the Part IIB technical criteria (i.e., Runoff Reduction Method, Energy Balance Equation, etc.) in Section 9VAC25-870-62 et seq. of the VSMP Regulations.

~~N/A 3. An exception for (number) pounds of phosphorus removal has been granted for this land disturbance (construction) activity by the DEQ in its letter dated (date).~~

~~N/A 4. The following exceptions to the Water Quantity criteria of the VSMP Regulation have been approved by the DEQ for this land disturbance (construction) activity: (list all approved exceptions and include a brief description of the exception, the date approved and the approving DEQ Office)~~

5. The permanent onsite SWM facilities or offsite strategies proposed to meet the water quality/quantity requirements for this land disturbance (construction) activity are listed in Section VI.

6. A description of all post-construction stormwater management measures that will be installed during the construction process to control pollutants in stormwater discharges after construction operations have been completed is included in the construction plan set (or other such documents) for this land disturbance (construction) activity.

7. All engineering calculations supporting the design of the post-construction stormwater management measures for this land disturbance (construction) activity, including an explanation of the technical basis used to select the practices, are contained in the project drainage file located in the VDOT NOVA District Hydraulics Section and will be made available for review upon request during normal working business hours.

SECTION V - POLLUTION PREVENTION PLAN

1. The following non-stormwater discharges from this land disturbing (construction) activity and any on-site support facilities are prohibited:

- Wastewater from concrete washouts.
- Wastewater from the washout and cleanout of stucco, paint, form release oils, curing compounds and other construction materials.
- Fuels, oils or other pollutants used in vehicle and equipment operation and maintenance.
- Oils, toxic substances or hazardous substances from spills or other releases.
- Soaps, solvents or detergents used in equipment and vehicle washing.
- There shall be no discharge of floating solids or visible foam in other than trace amounts

2. The following non-stormwater discharges from this land disturbing (construction) activity and any on-site support facilities are allowed when discharged in compliance with the VPDES Construction Permit:

- Discharges from fire fighting activities.
- Fire hydrant flushings.
- Waters used to wash vehicles or equipment where soaps, solvents or detergents have not been used and the wash water has been filtered, settled or similarly treated prior to discharge.
- Water used to control dust that has been filtered, settled or similarly treated prior to discharge.
- Potable water sources including uncontaminated waterline flushings.
- Routine external building wash down where soaps, solvents or detergents have not been used and the wash water has been filtered, settled or similarly treated prior to discharge.

- Pavement wash waters where spills or leaks of toxic or hazardous materials have not occurred (or where all spilled or leaked material has been removed prior to washing), where soaps, solvents or detergents have not been used and where the wash water has been filtered, settled or similarly treated prior to discharge.
- Uncontaminated air conditioning or compressor condensate.
- Uncontaminated ground water or spring water.
- Foundation or footing drains where flows are not contaminated with process materials such as solvents.
- Uncontaminated excavation dewatering, including dewatering trenches and excavations that have been filtered, settled or similarly treated prior to discharge.
- Landscape irrigation.

✖✖ 3. The contractor shall develop a Pollution Prevention Plan to address any of his on-site operations that have a potential to generate a pollutant that may reasonably be expected to affect the quality of stormwater discharges from this land disturbance (construction) activity. The Pollution Prevention Plan shall be developed in accordance with, but not limited to, Sections 106.08, 107.02 and 107.16 of the VDOT Road and Bridge Specifications and shall include a narrative with appropriate plan detail and shall be provided on standard 8.5 x 11 inch paper or larger and shall:

- Identify the potential pollutant-generating activities and the pollutant that is expected to be exposed to stormwater.
- Describe the location where the potential pollutant-generating activities will occur, or if identified on the record set of plans, reference the record set of plans.
- Identify all non-stormwater discharges, as described in note two of this section, that are or will be commingled with stormwater discharges from the construction activity, including any on-site support activities.
- Identify the person(s) or contractor(s) responsible for implementing and maintaining the pollution prevention practice or practices for each pollutant-generating activity.
- Describe the pollution prevention practices and procedures that will be implemented to:
 - Prevent and respond to leaks, spills, and other releases, including procedures for expeditiously stopping, containing, and cleaning up spills, leaks, and other releases, and procedures for reporting leaks, spills, and other releases in accordance with Section 107.16 of the VDOT Road and Bridge Specifications and the requirements within the VPDES Construction Permit.
 - Prevent the discharge of spilled and leaked fuels and chemicals from vehicle fueling and maintenance activities.
 - Prevent the discharge of soaps, solvents, detergents, and wash water from construction materials, including procedures for the clean-up of stucco, paint, form release oils, and curing compounds.
 - Minimize the discharge of pollutants from vehicle and equipment washing, wheel wash water, and other types of washing.
 - Direct concrete wash water into a leak-proof container or leak-proof settling basin. The container or basin shall be designed so that no overflows can occur due to inadequate sizing or precipitation. Hardened concrete wastes shall be removed and disposed of in a manner consistent with the handling of other construction wastes. Liquid concrete wastes shall be removed and disposed of in a manner consistent with the handling of other construction wash waters and shall not be discharged to surface waters.
 - Minimize the discharge of pollutants from storage, handling, and disposal of construction products, materials, and wastes including building products (such as asphalt sealants, copper flashing, roofing materials, adhesives, and concrete admixtures), pesticides, herbicides, insecticides, fertilizers, landscape materials, construction and domestic wastes (such as packaging materials), scrap construction materials, masonry products, timber, pipe and electrical cuttings, plastics, styrofoam, concrete, and other trash or building materials.
 - Prevent the discharge of fuels, oils, and other petroleum products, hazardous or toxic wastes, and sanitary wastes.
 - Address any other discharge from any potential pollutant-generating activity not listed herein.
 - Describe and implement procedures for providing pollution prevention awareness (including but not limited to prevention practices, disposal practices and appropriate disposal locations) for all applicable wastes (including any wash water), to appropriate personnel.

REVISED	STATE	STATE		SHEET NO.
	ROUTE	VDOT PROJECT NO.		
	VA.	638	0638-076-209 PE/01 CS/01 RW/201	2N(1)

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

✖ Denotes information that is to be provided/completed by the VDOT RLD.
✖✖ Denotes information that is to be provided/completed by the contractor.

Revised 09/29/16

Sheet 2 of 3

VDOT PROJECT NO. 0638-076-209 PWCDOT PROJECT NO. SPR2018-00271	SHEET NO. 2N(1)
---	--------------------

THESE PLANS ARE UNFINISHED AND UNAPPROVED AND ARE NOT TO BE USED FOR ANY TYPE OF CONSTRUCTION.

R/W PHASE PLANS



PROJECT MANAGER: EWCDOT - Khattab, Shamout, P.E. (703) 792-7193
SURVEYED BY, DATE: RDA: Bryan Dreelin, LS (703) 334-9302, July 3, 2017
DESIGN BY: RDA: Mack, Gunn, PE (703) 334-9288
SUBSURFACE UTILITY BY, DATE: Accurack (703) 378-0100, August 1, 2017

STORMWATER POLLUTION PREVENTION PLAN (SWPPP) GENERAL INFORMATION SHEET

Table with 4 columns: REVISION, STATE, ROUTE, VDOT PROJECT NO. and SHEET NO. Values: VA, 638, 0638-076-209 PE101 CS01 RW201, 2N12

The information contained in the SWPPP General Information sheets is intended to comply with the requirements of the VPDES General Permit For Discharges Of Stormwater From Construction Activities...

The VDOT RLD will ensure that the information shown on the SWPPP General Information sheets is updated/revised as necessary in order to reflect changes that may occur during the construction phase of the land disturbing (construction) activity.

The SWPPP General Information sheets are to be completed and included in the construction plan set (or other such documents) for land disturbance (construction) activities that disturb an area equal to or greater than 10,000 square feet...

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

ACRONYMS

- BMP - Best Management Practice
DEQ - Department of Environmental Quality
EPA - U.S. Environmental Protection Agency
ESC - Erosion and Sediment Control
IIM - Instructional and Informational Memorandum
R&B - Road and Bridge
RLD - Responsible Land Disturber
SWM - Stormwater Management
SWPPP - Stormwater Pollution Prevention Plan
TMDL - Total Maximum Daily Load
VDOT - Virginia Department of Transportation
VPDES - Virginia Pollutant Discharge Elimination System
VSMP - Virginia Stormwater Management Program
VESC - Virginia Erosion and Sediment Control Program

SECTION VI - PERMANENT BMP INFORMATION

* Denotes information that is to be completed by the VDOT RLD.
() See note referenced by number in parentheses.

INSTALLED BMP INFORMATION Table A (VDOT Owned/Operated)

Table A: INSTALLED BMP INFORMATION. Columns include Plan Sheet(s), BMP Type, County, Latitude/Longitude, State Hydrologic Unit Code, Receiving Stream Name, Name of Impaired Water, Acres Treated Per BMP, BMP Maintenance ID Number, and BMP Inspection Manual.

*This facility is a Quantity Control Facility Only. It does not provide BMP treatment.

ALTERNATIVE BMP INFORMATION Table B

Table B: ALTERNATIVE BMP INFORMATION. Columns include BMP Type, Name of Nutrient Credit Generating Entity, County, Latitude/Longitude, State Hydrologic Unit Code, Project Acres Treated, and Nutrient Credits Acquired.

Table 1: Permanent BMP Types (1999 Va. SWM Handbook)

- Bio-Retention Basin
Bio-Retention Filter
Constructed Stormwater Wetlands
Extended Detention Basin
Extended Detention Basin Enhanced
Grassed Swale
Infiltration Basin
Infiltration Trench
Manufactured Treatment Device (MTD) (8)
Retention Basin I
Retention Basin II
Retention Basin III
Sand Filter
Vegetated Filter Strip
Other Approved Types (List Type)

Table 2: Alternative BMP Types

- Comprehensive SWM Plan (Regional) Facility
Pollutant Loading Pro Rata Shore Program
Purchase of Nutrients Credits
Other Approved Options (List Type) (4)

Table 3: Permanent BMP Types (BMP Clearing House)

- Sheet Flow to Vegetated Filter Strip
Grass Channel
Soil Compost Amendment
Permeable Pavement
Infiltration Practice
Bioretention
Dry Swale
Wet Swale
Filtering Practice
Constructed Wetlands
Bioretention Conservation
Extended Detention Pond
Wet Pond
Manufactured Treatment Device (MTD)(8)
Other Approved Types (List Type) (4)

NOTES:

- (1) In decimal degrees to the nearest one ten-thousandth of a degree.
(2) For streams with no names, list "(Unnamed Tributary to closest stream name)".
(3) Show acres treated to the nearest one tenth acre.
(4) Include agreements with off-site BMP owners.
(5) Information pertains to the alternative BMP option location, where applicable. Exception - Not required for nutrient credit purchase option.
(6) Applies to the purchase of nutrient credits only.
(7) Virginia 6th Order HUC (VAHU6) Example - YO30.
(8) Final approved shop drawings of Manufactured Treatment Devices (MTDs) are to be included with the BMP information submitted with the LD-445D form.

- (9) List the name of any impaired water to which the BMP discharges. The determination of impaired water shall be based on those streams listed as impaired in the DEQ 2012 305(b)/303(d) Water Quality Assessment Integrated Report and shall be the first named waterbody to which the BMP discharges. The impaired waters are those impaired by sediment, total suspended solids, turbidity, nitrogen or phosphorus. These pollutants are considered benthic impairments.
(10) BMP Maintenance ID Number is to be assigned by the District Infrastructure Manager at permit termination or project completion.
(11) Provide the section of each Maintenance manual that pertains to the type of BMP. Both manuals can be found at www.vdot.virginia.gov/business/manuals in the Maintenance selections. Example: Section 4 would be noted for both the maintenance and inspection manuals for a Bioretention Infiltration BMP.
(12) Nutrient credits purchased to the nearest one hundredth pound.

Any changes to the proposed SWM Plan or BMPs necessitated during the construction phase of the project that affects the proposed construction details or potentially affects the information shown in the BMP Tables A and/or B shall be coordinated by the VDOT RLD with the appropriate VDOT District Hydraulics Engineer. The construction plans and the BMP Tables A and/or B are to be formally revised to reflect any authorized/approved changes to the proposed SWM Plan and/or the proposed BMP construction details.

Revised 09/29/16 Sheet 3 of 3

Table with 2 columns: VDOT PROJECT NO. (0638-076-209) and SHEET NO. (2N12)

THESE PLANS ARE UNFINISHED AND UNAPPROVED AND ARE NOT TO BE USED FOR ANY TYPE OF CONSTRUCTION.

R/W PHASE PLANS

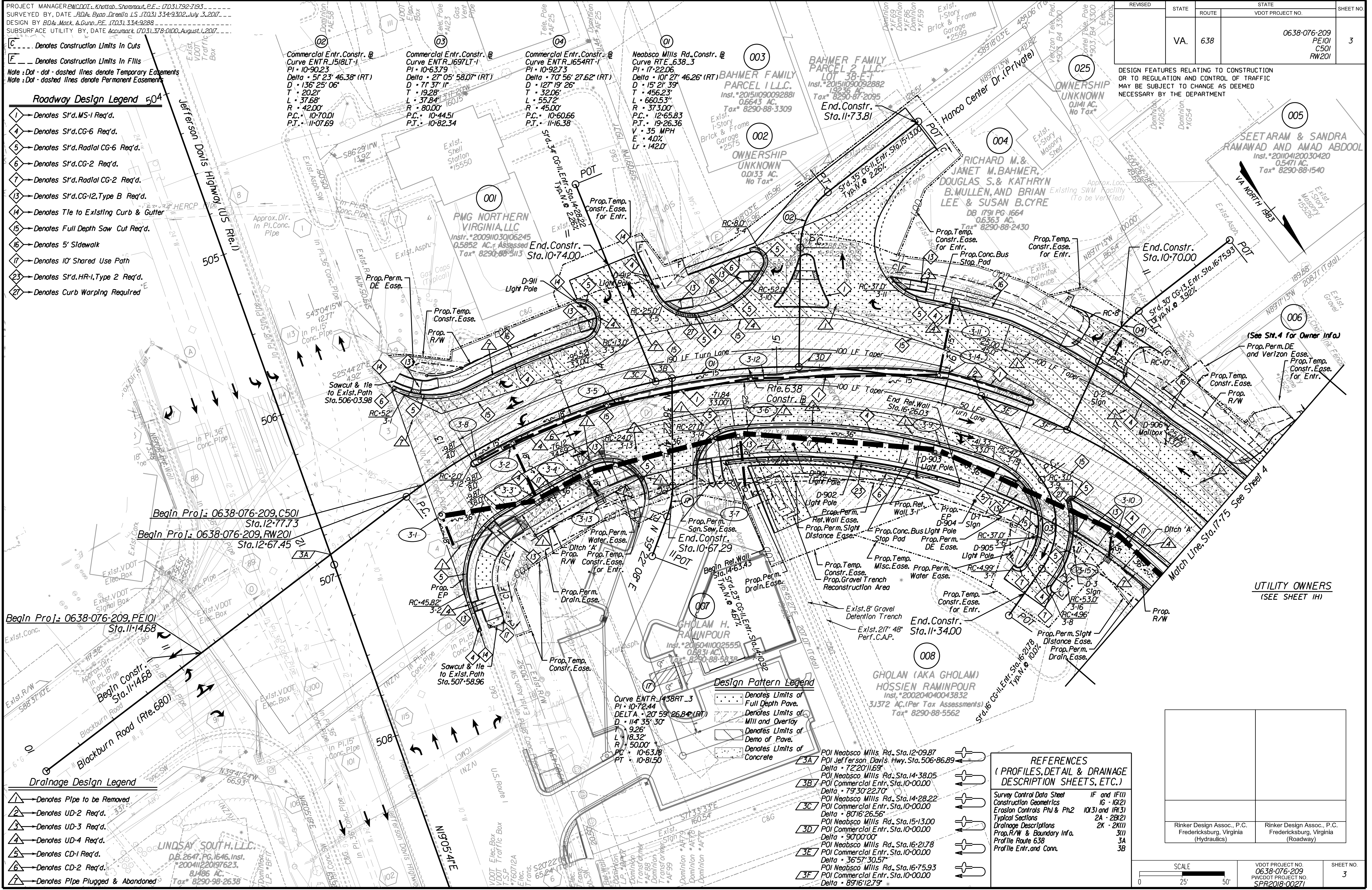


PROJECT MANAGER: EWC DOT - Khattab, Shammout, P.E. : (703) 792-7193
SURVEYED BY, DATE: RDA: Bryan Drea, L.S. (703) 334-9302, July 3, 2017
DESIGN BY: RDA: Mack & Gunn, P.E. (703) 334-9288
SUBSURFACE UTILITY BY, DATE: Accurack (703) 378-0100, August 1, 2017

C - Denotes Construction Limits in Cuts
F - Denotes Construction Limits in Fills
Note: **Dot-dot-dashed** lines denote Temporary Easements
Note: **Dot-dashed** lines denote Permanent Easements

- Roadway Design Legend 504**
- 1 - Denotes S'd, MS-1 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.
 - 13 - Denotes S'd, CG-12, Type B Req'd.
 - 14 - Denotes Tie to Existing Curb & Gutter
 - 15 - Denotes Full Depth Saw Cut Req'd.
 - 16 - Denotes 5' Sidewalk
 - 17 - Denotes 10' Shared Use Path
 - 23 - Denotes S'd, HR-1, Type 2 Req'd.
 - 27 - Denotes Curb Warping Required

- Drainage Design Legend**
- 1 - Denotes Pipe to be Removed
 - 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 Plugged & Abandoned



REVISED	STATE	ROUTE	STATE	VDOT PROJECT NO.	SHEET NO.
	VA.	638		0638-076-209 PE101 CS01 RW201	3

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

LINDSAY SOUTH, LLC.
D.B. 2647, PG. 1646, Inst. #200411220197623, 8.486 AC, Tax# 8290-98-2638

Begin Proj.: 0638-076-209, C501
Sta. 12+77.73
Begin Proj.: 0638-076-209, RW201
Sta. 12+67.45
Begin Proj.: 0638-076-209, PE101
Sta. 11+4.68
Begin Constr.: Sta. 11+4.68

End Constr. Sta. 11+73.81
End Constr. Sta. 10+74.00
End Constr. Sta. 10+70.00
End Constr. Sta. 10+70.00
End Constr. Sta. 11+34.00

Design Pattern Legend

- Denotes Limits of Full Depth Pavement
- Denotes Limits of Mill and Overlay
- Denotes Limits of Demo of Pavement
- Denotes Limits of Concrete

Design Pattern Legend

- 3A - POI Neabsco Mills Rd., Sta. 12+09.87
- 3B - POI Jefferson Davis Hwy., Sta. 506+86.89
- 3C - POI Neabsco Mills Rd., Sta. 14+38.05
- 3D - POI Commercial Entr., Sta. 10+00.00
- 3E - POI Neabsco Mills Rd., Sta. 14+28.22
- 3F - POI Commercial Entr., Sta. 10+00.00
- 3G - POI Neabsco Mills Rd., Sta. 15+13.00
- 3H - POI Commercial Entr., Sta. 10+00.00
- 3I - POI Neabsco Mills Rd., Sta. 16+21.78
- 3J - POI Commercial Entr., Sta. 10+00.00
- 3K - POI Neabsco Mills Rd., Sta. 16+75.93
- 3L - POI Commercial Entr., Sta. 10+00.00

REFERENCES (PROFILES, DETAIL & DRAINAGE DESCRIPTION SHEETS, ETC.)

- Survey Control Data Sheet IF and IF(1)
- Construction Geometrics 16 - 10(2)
- Erosion Controls Ph1 & Ph2 10(3) and 10(3)
- Typical Sections 2A - 2K(1)
- Drainage Descriptions 2K - 2K(1)
- Prop. R/W & Boundary Info. 3(1)
- Profile Route 638 3A
- Profile Entr. and Conn. 3B

UTILITY OWNERS (SEE SHEET 1H)

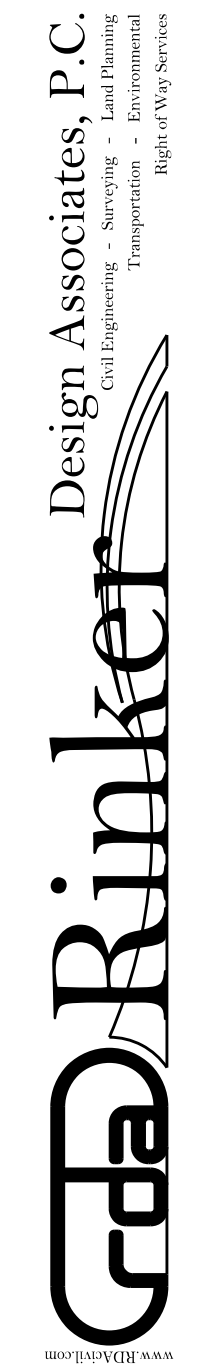
SCALE
0 25' 50'

VDOT PROJECT NO. 0638-076-209
PWCDOT PROJECT NO. SPR2018-00271

SHEET NO. 3

THESE PLANS ARE UNFINISHED AND UNAPPROVED AND ARE NOT TO BE USED FOR ANY TYPE OF CONSTRUCTION.

R/W PHASE PLANS



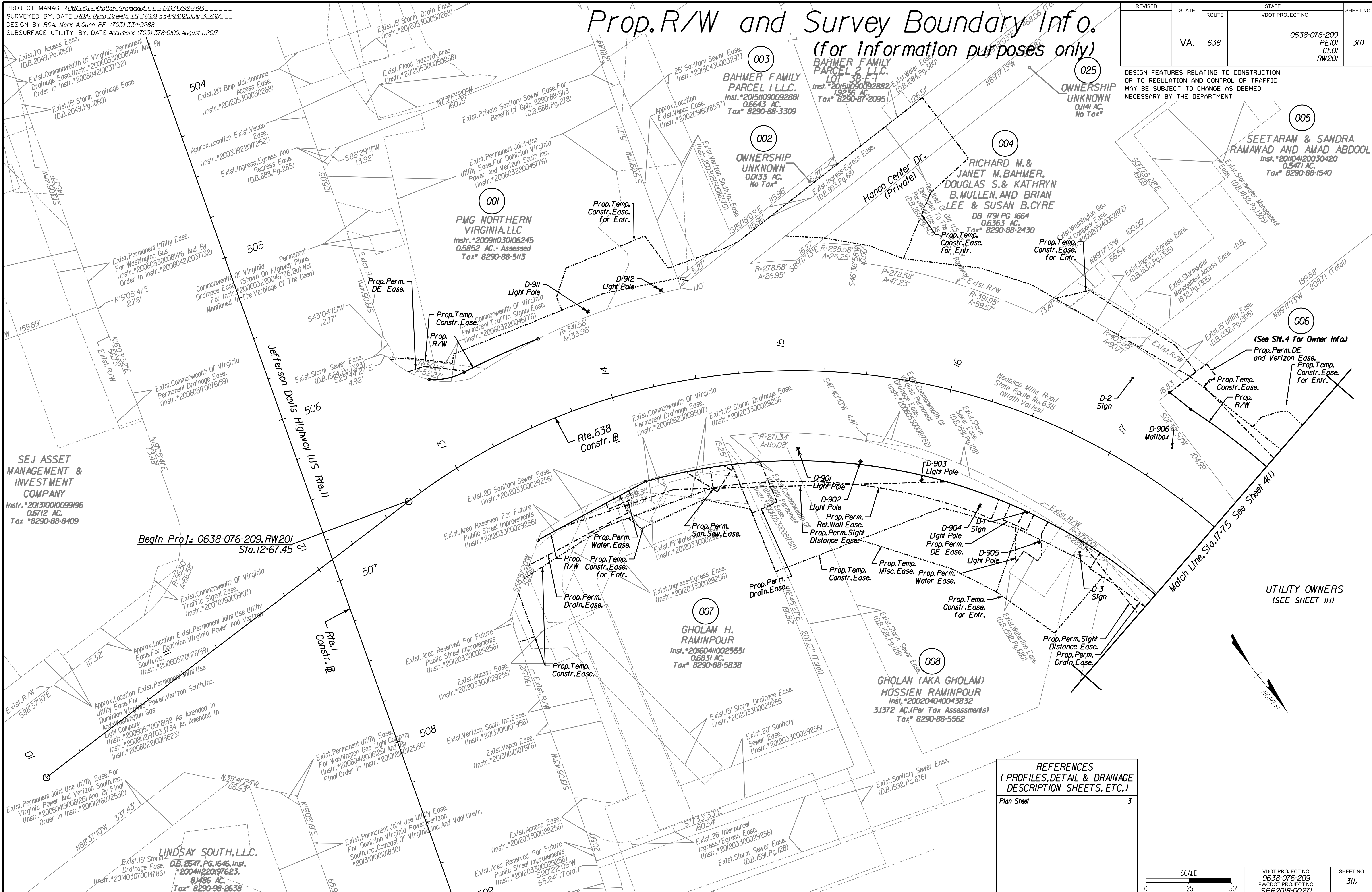
PROJECT MANAGER: EWCDOT - Khattab, Shammaul, P.E. : (703) 792-7193
 SURVEYED BY, DATE: RDA: Bryan Dreaña, L.S. (703) 334-9302, July 3, 2017
 DESIGN BY: RDA: Mack & Gunn, P.E. (703) 334-9288
 SUBSURFACE UTILITY BY, DATE: Accurack (703) 378-0100, August 1, 2017

Prop. R/W and Survey Boundary Info. (for information purposes only)

REVISED	STATE	ROUTE	STATE	VDOT PROJECT NO.	SHEET NO.
	VA.	638		0638-076-209	311

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

Office Locations
 Design Associates, P.C.
 Civil Engineering, Surveying, Land Planning, Transportation, Environmental, Right-of-Way Services



SEJ ASSET MANAGEMENT & INVESTMENT COMPANY
 Instr. #201310010099196
 0.6712 AC.
 Tax #8290-88-8409

Begin Proj.: 0638-076-209, RW201
 Sta. 12+67.45

LINDSAY SOUTH, L.L.C.
 D.B. 2647, PG. 1646, Inst. #200411220197623,
 8.486 AC.
 Tax #8290-98-2638

PMG NORTHERN VIRGINIA, LLC
 Instr. #20091030106245
 0.5852 AC. - Assessed
 Tax #8290-88-5113

BAHMER FAMILY PARCEL 1 L.L.C.
 Inst. #20151090092882
 0.6543 AC.
 Tax #8290-88-3309

OWNERSHIP UNKNOWN
 0.0133 AC.
 No Tax*

RICHARD M. & JANET M. BAHMER, DOUGLAS S. & KATHRYN B. MULLEN, AND BRIAN LEE & SUSAN B. CYRE
 DB 1791 PG 1664
 0.6363 AC.
 Tax #8290-88-2430

OWNERSHIP UNKNOWN
 0.1141 AC.
 No Tax*

SEETARAM & SANDRA RAMANAW AND AMAD ABDOL
 Inst. #20104120030420
 0.5471 AC.
 Tax #8290-88-1540

GHOLAM H. RAMINPOUR
 Inst. #20160410025551
 0.6831 AC.
 Tax #8290-88-5838

GHOLAN (AKA GHOLAM) HOSSIEIN RAMINPOUR
 Inst. #200204040043832
 3.1372 AC. (Per Tax Assessments)
 Tax #8290-88-5562

REFERENCES
 (PROFILES, DETAIL & DRAINAGE DESCRIPTION SHEETS, ETC.)
 Plan Sheet 3

SCALE	VDOT PROJECT NO.	SHEET NO.
0 25' 50'	0638-076-209	311
	PWCDDOT PROJECT NO.	
	SPR2018-00271	

THESE PLANS ARE UNFINISHED AND UNAPPROVED AND ARE NOT TO BE USED FOR ANY TYPE OF CONSTRUCTION.

R/W PHASE PLANS



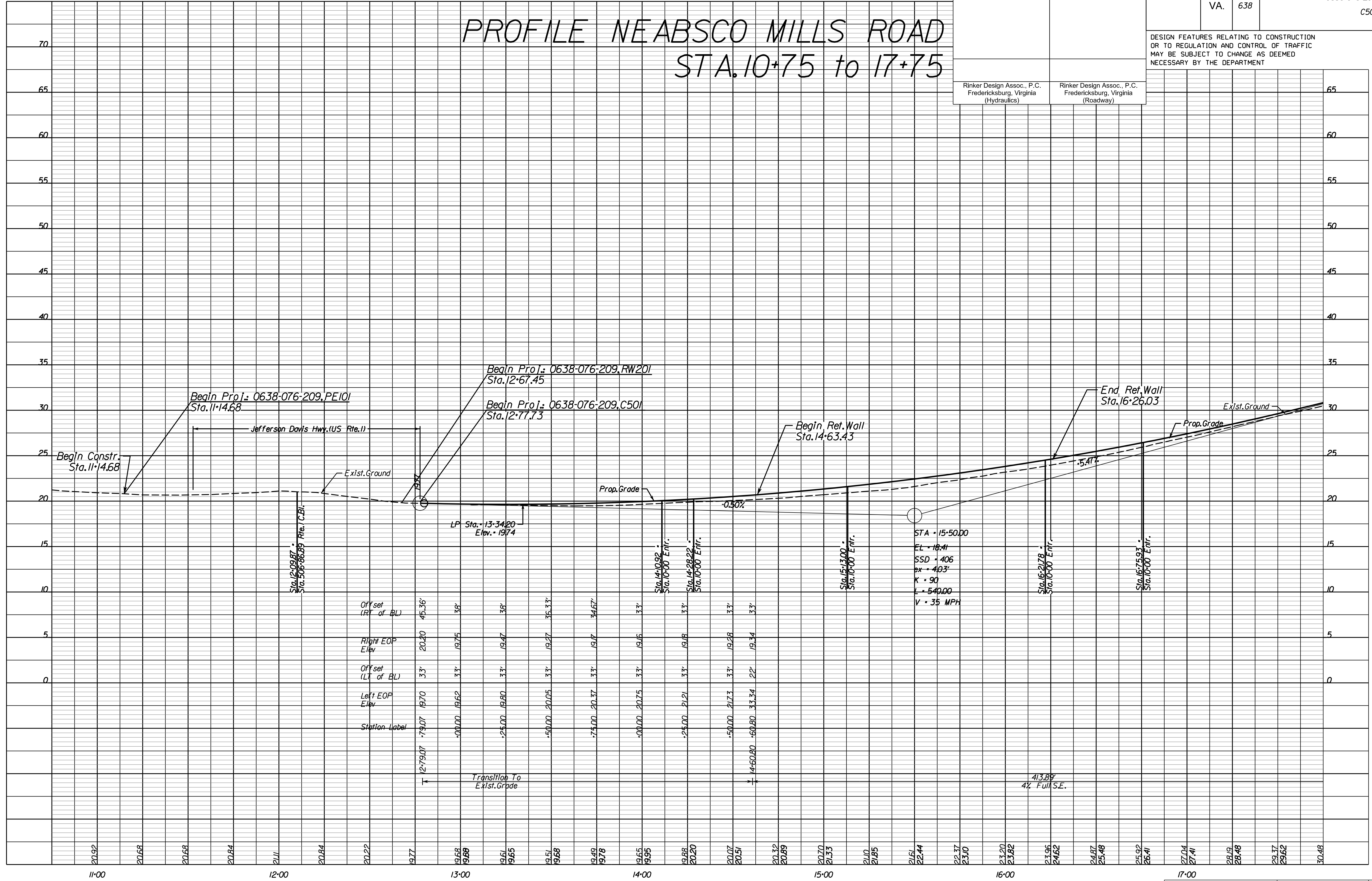
PROJECT MANAGER PWCDOT: Khattab, Shammout, PE - (703) 792-7193
SURVEYED BY, DATE: RDA: Ryan, Dcebln, LS - (703) 334-9302, July 3, 2017
DESIGN BY: RDA: Mark A. Guoa, PE - (703) 334-9288
SUBSURFACE UTILITY BY, DATE: Accumark, (703) 378-0100, August 1, 2017

REVISED	STATE	ROUTE	STATE PROJECT	SHEET NO.
	VA.	638	0638-076-209 C501	3A

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 (Hydraulics)	Rinker Design Assoc., P.C. Fredericksburg, Virginia (Roadway)	65
--	---	----

PROFILE NEABSCO MILLS ROAD STA. 10+75 to 17+75



THESE PLANS ARE UNFINISHED AND UNAPPROVED AND ARE NOT TO BE USED FOR ANY TYPE OF CONSTRUCTION.

R.W. PHASE PLANS

PROJECT MANAGER PWCDOT: Khattab, Shamout, PE - (703) 792-7193
 SURVEYED BY, DATE RD: Ryan, Debelin, LS - (703) 334-9302, July 3, 2017
 DESIGN BY RD: Mark A. Guoa, PE - (703) 334-9288
 SUBSURFACE UTILITY BY, DATE Accurmark (703) 378-0100, August 1, 2017

REVISED	STATE	ROUTE	STATE PROJECT	SHEET NO
	VA.	638	0638-076-209 C501	3B

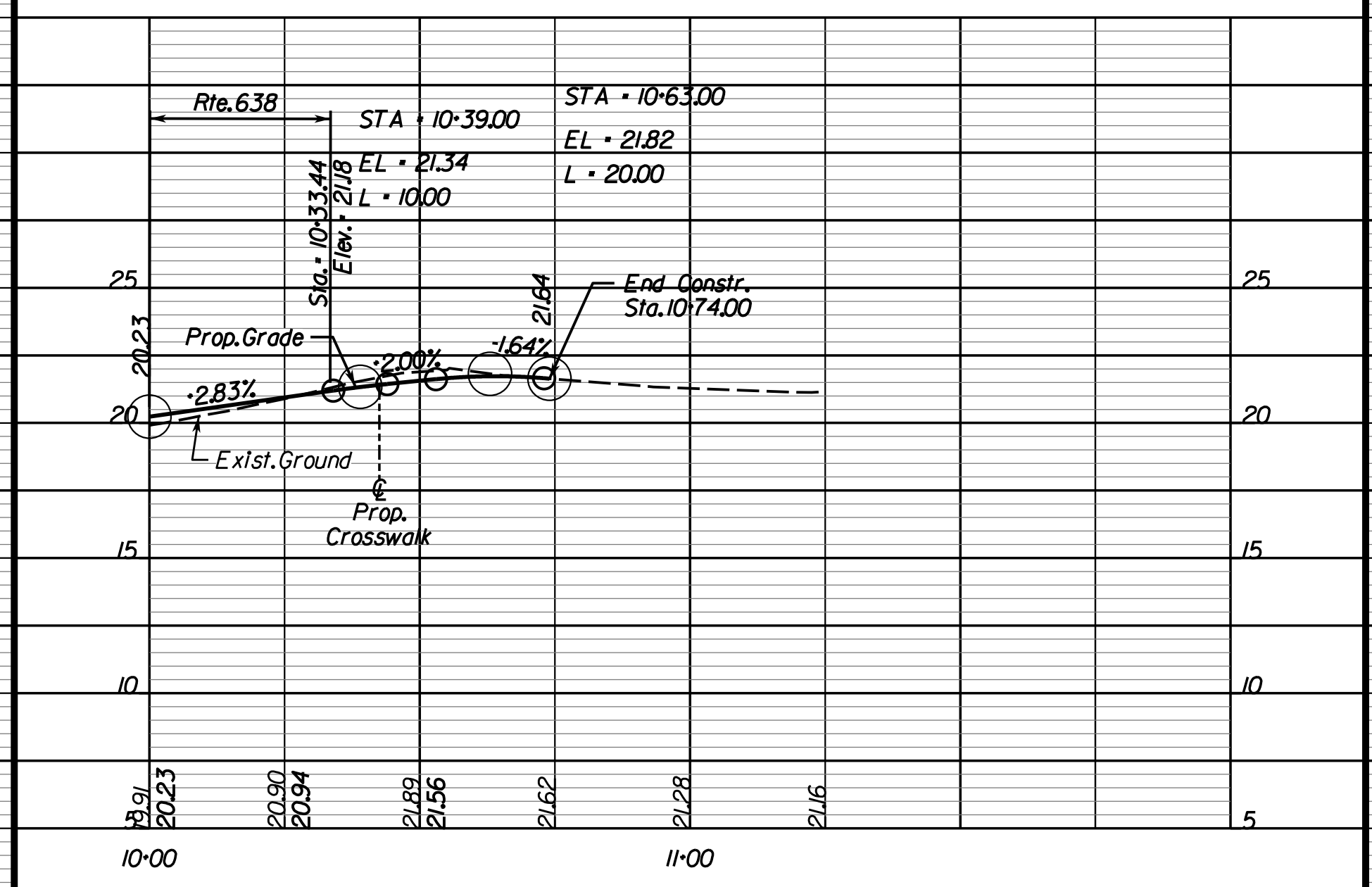
ENTRANCE PROFILES

Rinker Design Assoc., P.C.
 Fredericksburg, Virginia
 (Hydraulics)

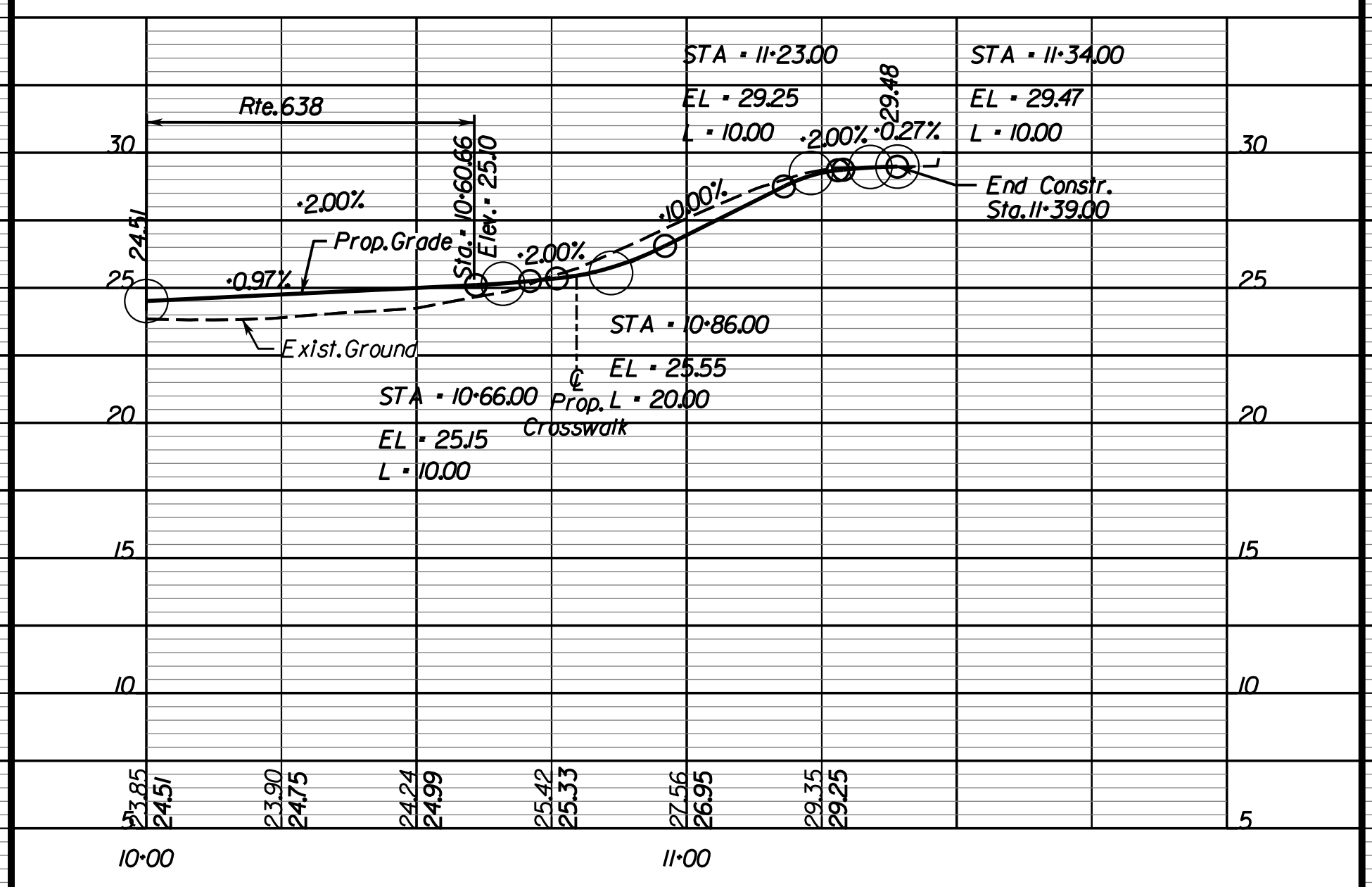
Rinker Design Assoc., P.C.
 Fredericksburg, Virginia
 (Roadway)

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

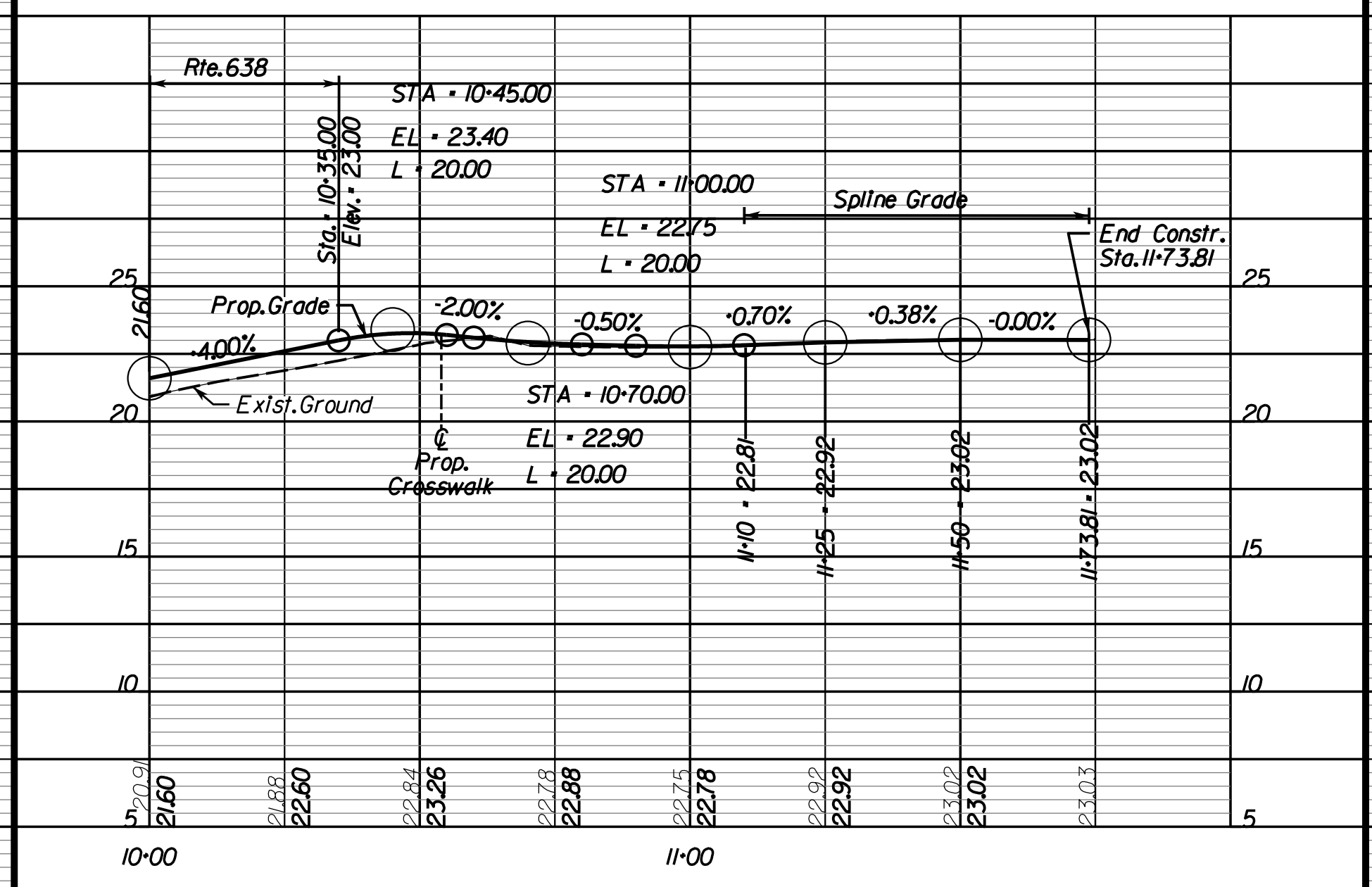
Commercial CG-13 Entr. (Shell)
 Sta. 14+28.22 Lt. off of Rte. 638 Constr. Bl.



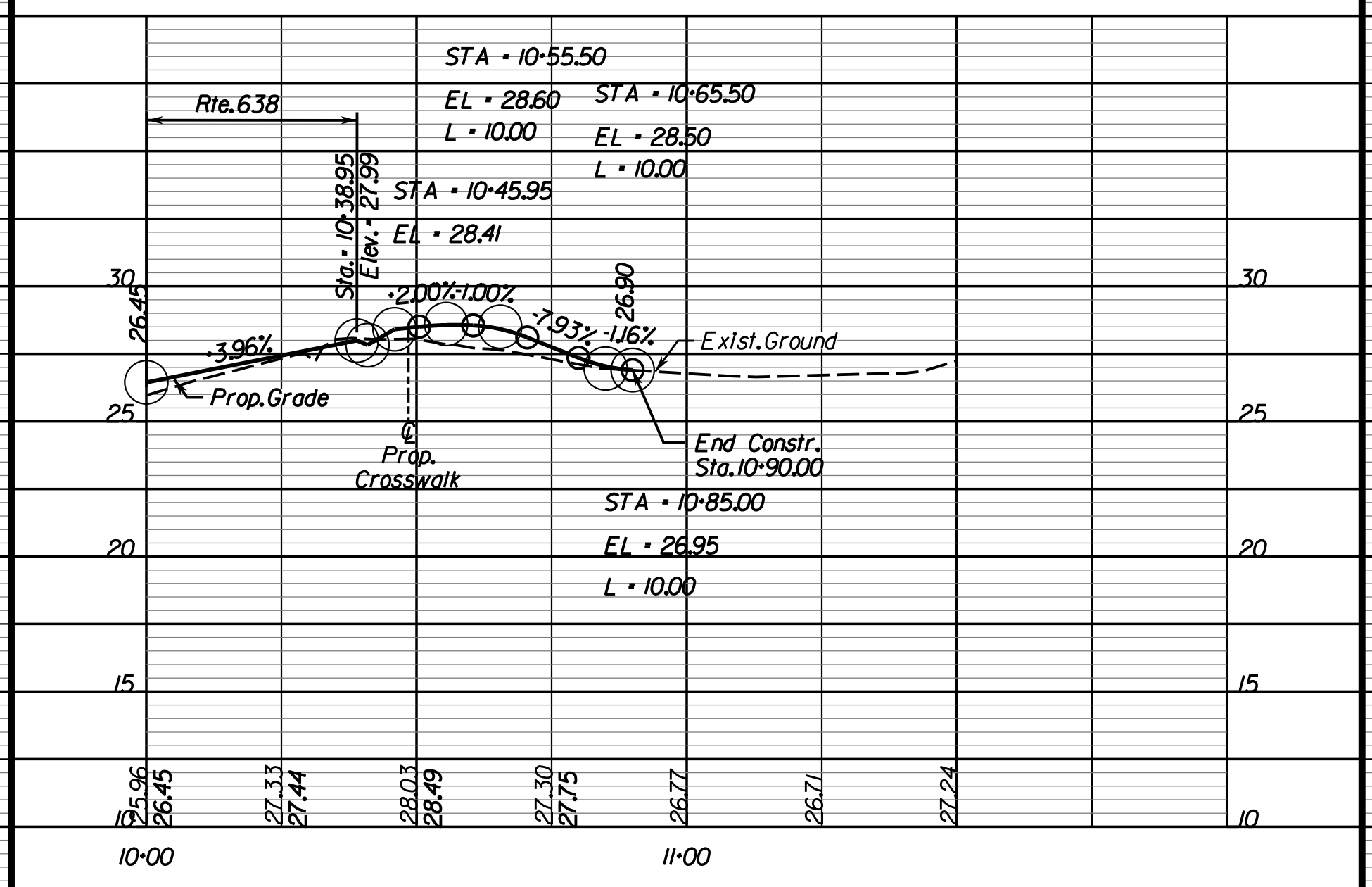
Commercial CG-II Entr. (Koons Right in Only)
 Sta. 16+21.78 Rt. off of Rte. 638 Constr. Bl.



Commercial CG-II Entr. (Hanco Center Dr.)
 Sta. 15+13.00 Lt. off of Rte. 638 Constr. Bl.



Commercial CG-13 Entr. (Ron's Auto Body)
 Sta. 16+75.93 Lt. off of Rte. 638 Constr. Bl.



Rinker Design Associates, P.C.
 Civil Engineers
 Transportation - Environmental
 Right of Way Services
 10000 Lakeside Blvd.
 Fredericksburg, VA 22409
 Phone: (540) 371-1100
 Fax: (540) 371-1101
 www.rinker.com

THESE PLANS ARE UNFINISHED AND UNAPPROVED AND ARE NOT TO BE USED FOR ANY TYPE OF CONSTRUCTION.

R.W. PHASE PLANS

PROJECT MANAGER PWCDOT: Khattab, Shammout, PE - (703) 792-7193
SURVEYED BY, DATE: RDA: Ryan, Debelin, LS (703) 334-9302, July 3, 2017
DESIGN BY: RDA: Mark A. Guoa, PE (703) 334-9288
SUBSURFACE UTILITY BY, DATE: Accumark (703) 378-0100, August 1, 2017

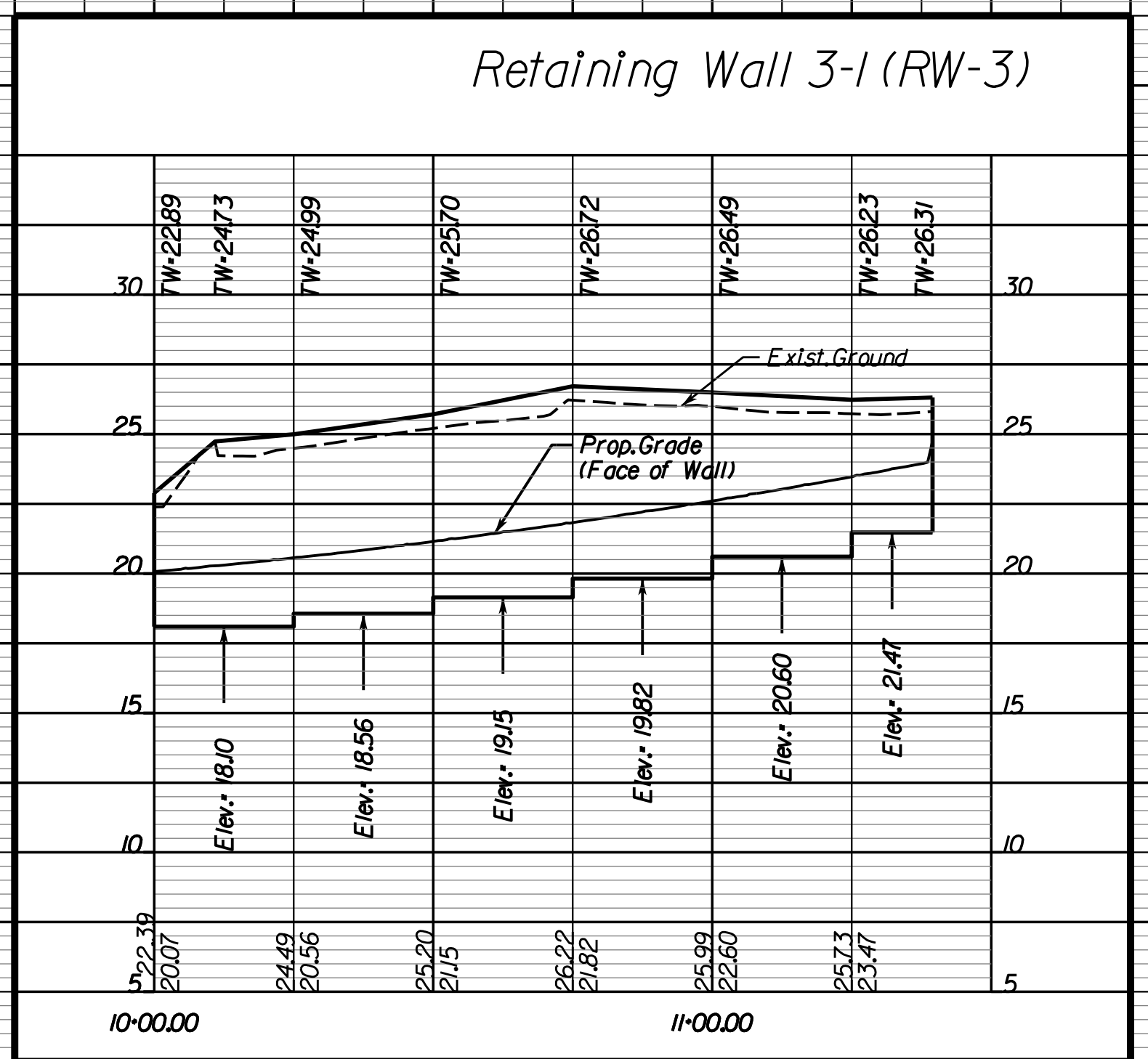
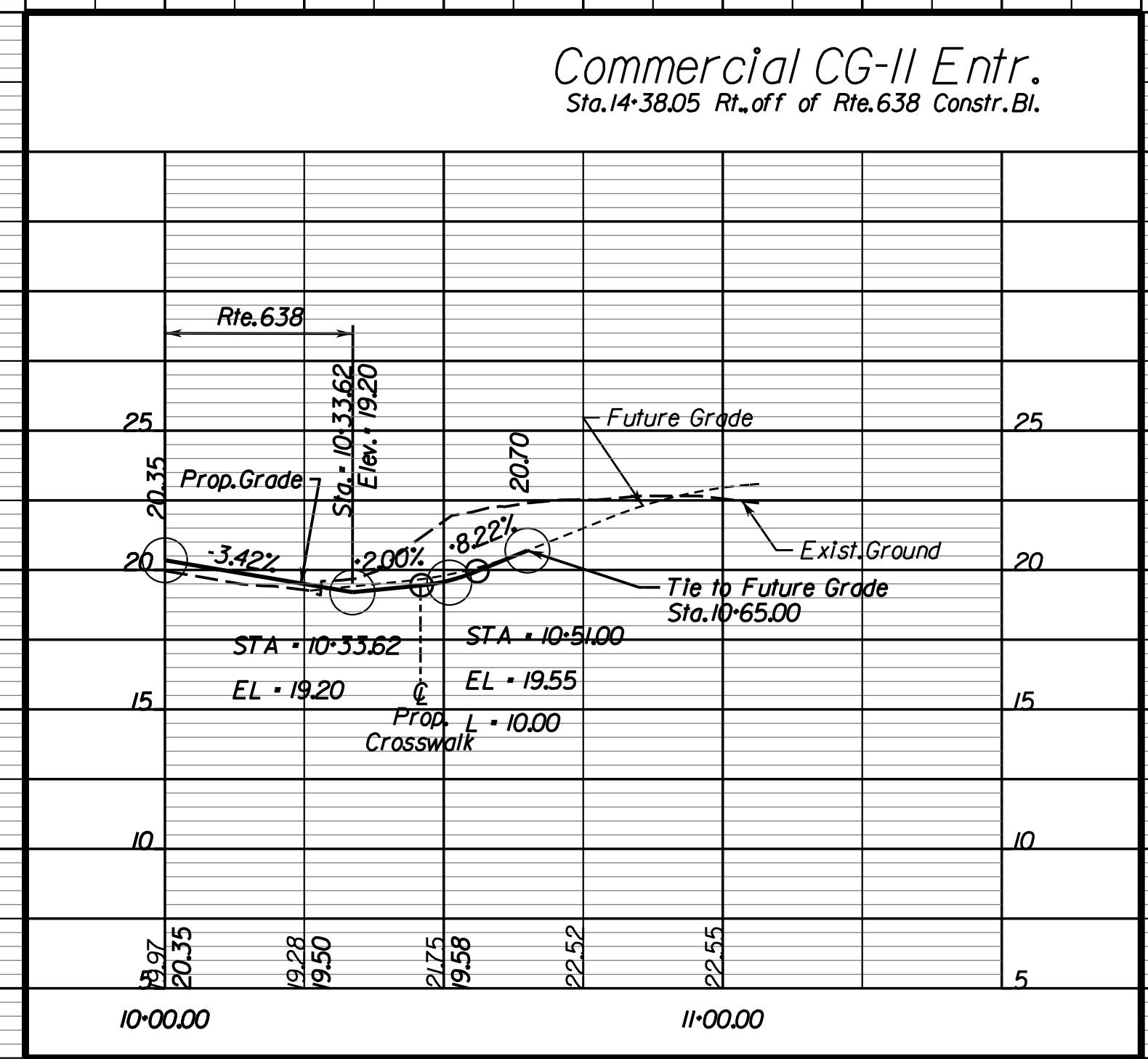
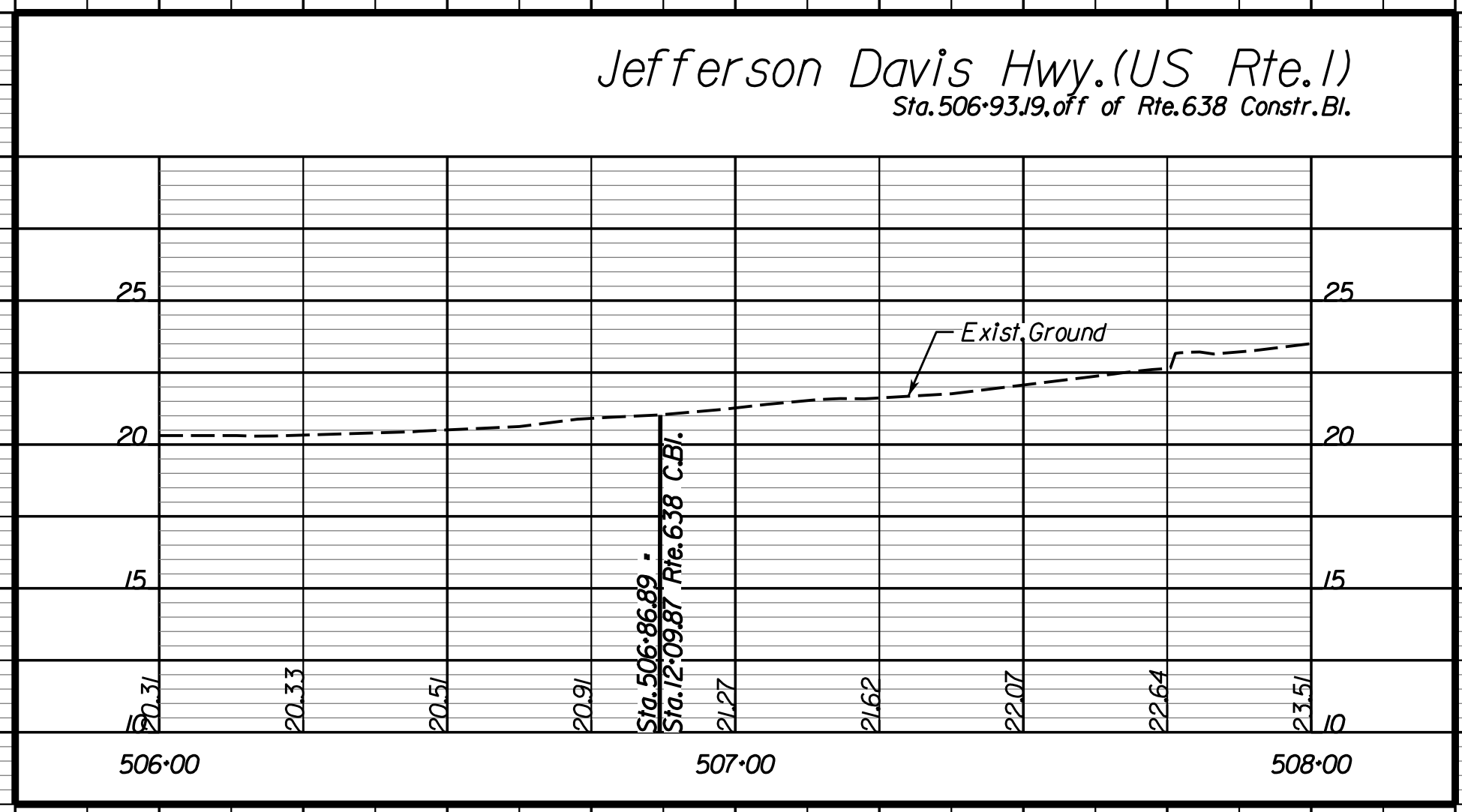
REVISED	STATE		STATE PROJECT		SHEET NO
	VA.	ROUTE 638	0638-076-209 C501		

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

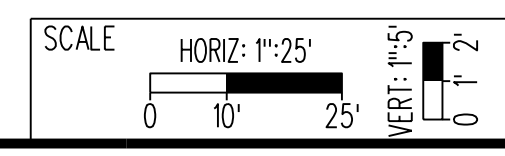
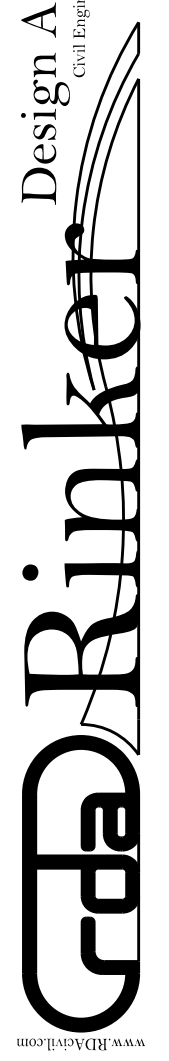
Rinker Design Assoc., P.C.
Fredericksburg, Virginia
(Hydraulics)

Rinker Design Assoc., P.C.
Fredericksburg, Virginia
(Roadway)

ENTRANCE PROFILES



Office Locations
 Rinker Design Associates, P.C.
 10000 Woodbridge Road
 Fredericksburg, VA 22409
 Phone: (703) 334-9288
 Fax: (703) 334-9289



VDOT PROJECT NO. 0638-076-209
 PWCDOT PROJECT NO. SPR2018-00271
 SHEET NO. 3C

THESE PLANS ARE UNFINISHED AND UNAPPROVED AND ARE NOT TO BE USED FOR ANY TYPE OF CONSTRUCTION.

R.W. PHASE PLANS

PROJECT MANAGER: EWCDOT - Khattab, Shammout, P.E. - (703) 792-7193
SURVEYED BY, DATE: RDA: Bryan Drea, LS (703) 334-9302, July 3, 2017
DESIGN BY: RDA: Mack & Gunn, P.E. (703) 334-9288
SUBSURFACE UTILITY BY, DATE: Accurack (703) 378-0100, August 1, 2017

REVISED	STATE	ROUTE	STATE	VDOT PROJECT NO.	SHEET NO.
	VA.	638		0638-076-209	4

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

Design Pattern Legend

- Denotes Limits of Full Depth Pavement
- Denotes Limits of Mill and Overlay
- Denotes Limits of Demo of Pavement
- Denotes Limits of Concrete

Neabasco Mills Rd., Constr. @ Curve
 PVI = 21-94.72
 Delta = 6' 26" 24.39' (LT)
 D = 12' 04"
 T = 269.36'
 L = 536.15'
 R = 4770.00'
 P.C. = 19-26.36
 P.T. = 24-62.51
 V = 35 MPH
 E = Normal Crown
 Lr = N/A

Commercial Entr., Constr. @ Curve
 ENTR. 2093RT-1
 PVI = 10-82.56
 Delta = 6' 40" 43.97' (LT)
 D = 127' 19" 26"
 T = 26.87'
 L = 48.44'
 R = 45.00'
 P.C. = 10-55.69
 P.T. = 11-04.14

POI Neabasco Mills Rd., Sta. 17-79.81
POI Commercial Entr., Sta. 10-00.00
 Delta = 79' 35" 19.66"

VA NORTH 1983
POI Neabasco Mills Rd., Sta. 20-76.60
POI Commercial Entr., Sta. 10-00.00
 Delta = 32' 55" 31.94"
POI Neabasco Mills Rd., Sta. 21-50.00
POI Commercial Entr., Sta. 10-00.00
 Delta = 90' 00" 00"
POI Neabasco Mills Rd., Sta. 23-53.66
POI Commercial Entr., Sta. 10-00.00
 Delta = 89' 51" 06.21"

15512 NEABASCO MILLS, LLC
 Inst. # 201311200112877
 11200 AC - Assessed
 10285 AC - Per Inst.
 # 201311200112877
 Tax # 8290-88-1992

Rinker Design Assoc., P.C.
 Fredericksburg, Virginia
 (Hydraulics)

Rinker Design Assoc., P.C.
 Fredericksburg, Virginia
 (Roadway)

SCOTT MCCORKINDALE
 D.B. 2629 PG. 901
 0.9049 AC
 Tax # 8290-89-1708

013
 (See SH. 5 for Owner Info)
 Note: Existing Septic Field, Well Water and Propane Tank Found on the Rear Yard for Bldg. #15508

JOHN R. WARD, DONALD W. WARD, MICHELLE R. WARD AND CHRISTINE W. WARD
 Inst. # 201009010076284
 0.4339 AC
 Tax # 8290-88-1762

SEETARAM & SANDRA RAMAWAD
 Inst. # 201104120030421
 0.5000 AC
 Tax # 8290-88-1758

Prop. Temp. Constr. Ease. for Entr.
End. Constr. Sta. 10-78.00

010
15512 NEABASCO MILLS, LLC
 Inst. # 201311200112876
 0.6569 AC
 Tax # 8290-88-1874

End. Constr. Sta. 10-75.00

End. Constr. Sta. 10-76.00

GHOLAN (AKA GHOLAM) HOSSIEIN RAMINPOUR
 Inst. # 200204040043832
 3.1372 AC (Per Tax Assessments)
 Tax # 8290-88-5562

HARVEST LIFE CHANGERS CHURCH INTERNATIONAL INC. PARCEL "A"
 Inst. # 201401280006121
 15.4877 AC
 Tax # 8290-89-7339

Drainage Design Legend

- Denotes Pipe to be Removed
- Denotes UD-2 Req'd.
- Denotes UD-3 Req'd.
- Denotes UD-4 Req'd.
- Denotes CD-1 Req'd.
- Denotes CD-2 Req'd.
- Denotes Pipe Plugged & Abandoned

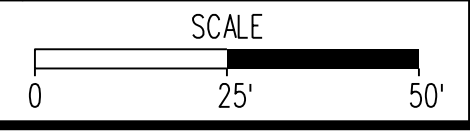
Roadway Design Legend

- Denotes S'd. MS-2 Req'd.
- Denotes S'd. CG-6 Req'd.
- Denotes S'd. Radial CG-6 Req'd.
- Denotes S'd. CG-2 Req'd.
- Denotes S'd. Radial CG-2 Req'd.
- Denotes S'd. CG-12, Type B Req'd.
- Denotes Tie to Existing Curb & Gutter
- Denotes Full Depth Saw Cut Req'd.
- Denotes 5' Sidewalk
- Denotes 10' Shared Use Path
- Denotes Curb Warping Req'd.

UTILITY OWNERS (SEE SHEET 1H)

REFERENCES (PROFILES, DETAIL & DRAINAGE DESCRIPTION SHEETS, ETC.)

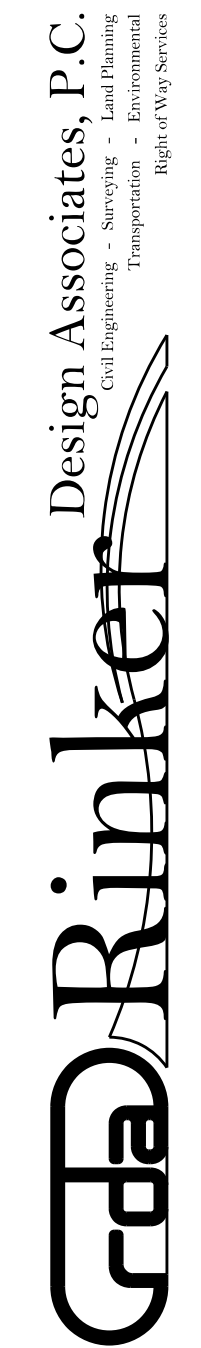
Survey Control Data Sheet	IF and IF(1)
Construction Geometrics	16 - 10(2)
Erosion Controls Ph1 & Ph2	10(4) and 11(4)
Typical Sections	2A - 2B(2)
Drainage Descriptions	2K - 2K(1)
Prop. R/W & Boundary Info.	4A
Profile Route 638	4A
Profile Entr. and Conn.	4B and 4C



VDOT PROJECT NO.	0638-076-209	SHEET NO.	4
PWCDDOT PROJECT NO.	SPR2018-00271		

THESE PLANS ARE UNFINISHED AND UNAPPROVED AND ARE NOT TO BE USED FOR ANY TYPE OF CONSTRUCTION.

R/W PHASE PLANS



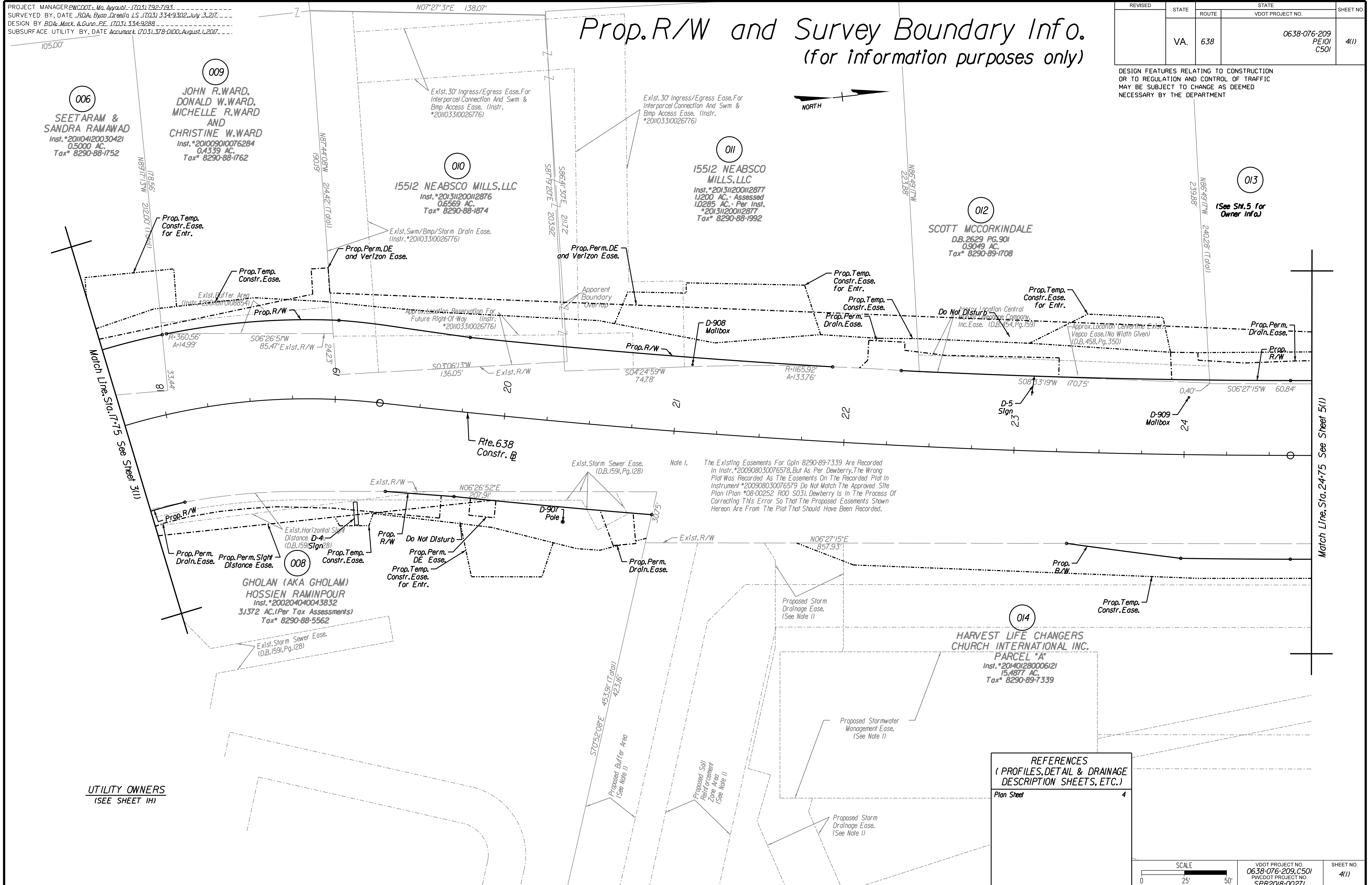
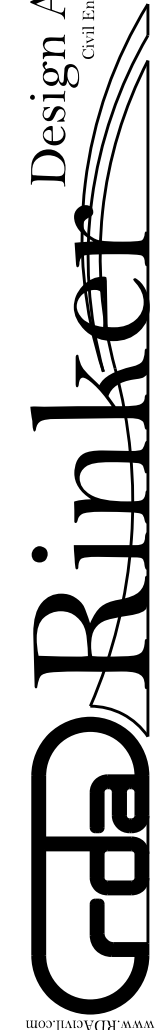
PROJECT MANAGER: WCDOT - Ma. Ayoubi - (703) 792-7193
SURVEYED BY, DATE: RDA: Bryan Drea/LS (703) 334-9302, July 3, 2017
DESIGN BY: RDA: Mack & Gunn, PE (703) 334-9288
SUBSURFACE UTILITY BY, DATE: Accurack (703) 378-0100, August 1, 2017

Prop. R/W and Survey Boundary Info. (for information purposes only)

REVISED	STATE	ROUTE	STATE	VDOT PROJECT NO.	SHEET NO.
	VA.	638		0638-076-209 PE/01 C501	4(1)

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

Office Locations
Design Associates, P.C.
Civil Engineering, Surveying, Land Planning, Environmental, Transportation, Right-of-Way Services



Note 1. The Existing Easements For Gpin 8290-89-7339 Are Recorded In Instr. #200908030076578, But As Per Dewberry, The Wrong Plat Was Recorded As The Easements On The Recorded Plat In Instrument #200908030076579 Do Not Match The Approved Site Plan (Plan #08-00252 R00 S03). Dewberry Is In The Process Of Correcting This Error So That The Proposed Easements Shown Hereon Are From The Plat That Should Have Been Recorded.

REFERENCES
(PROFILES, DETAIL & DRAINAGE DESCRIPTION SHEETS, ETC.)
Plan Sheet 4

SCALE 0 25 50'	VDOT PROJECT NO. 0638-076-209, C501 PWCDOT PROJECT NO. SPR2018-00271	SHEET NO. 4(1)
-------------------	---	-------------------

THESE PLANS ARE UNFINISHED AND UNAPPROVED AND ARE NOT TO BE USED FOR ANY TYPE OF CONSTRUCTION.

R/W PHASE PLANS

Office Locations
Rinker Design Associates, P.C.
10000 Woodloch Forest
Fredericksburg, VA 22409
Phone: (541) 333-1111
Fax: (541) 333-1112

Rinker Design Associates, P.C.
Civil Engineers
Transportation - Environmental
Right of Way Services
www.rinker.com

PROJECT MANAGER: PWCDOT: Khattab, Shamout, PE - (703) 792-7193
SURVEYED BY, DATE: RDA: Ryan, Debelin, LS - (703) 334-9302, July 3, 2017
DESIGN BY: RDA: Mark A. Guora, PE - (703) 334-9288
SUBSURFACE UTILITY BY, DATE: Accumark (703) 378-0100, August 1, 2017

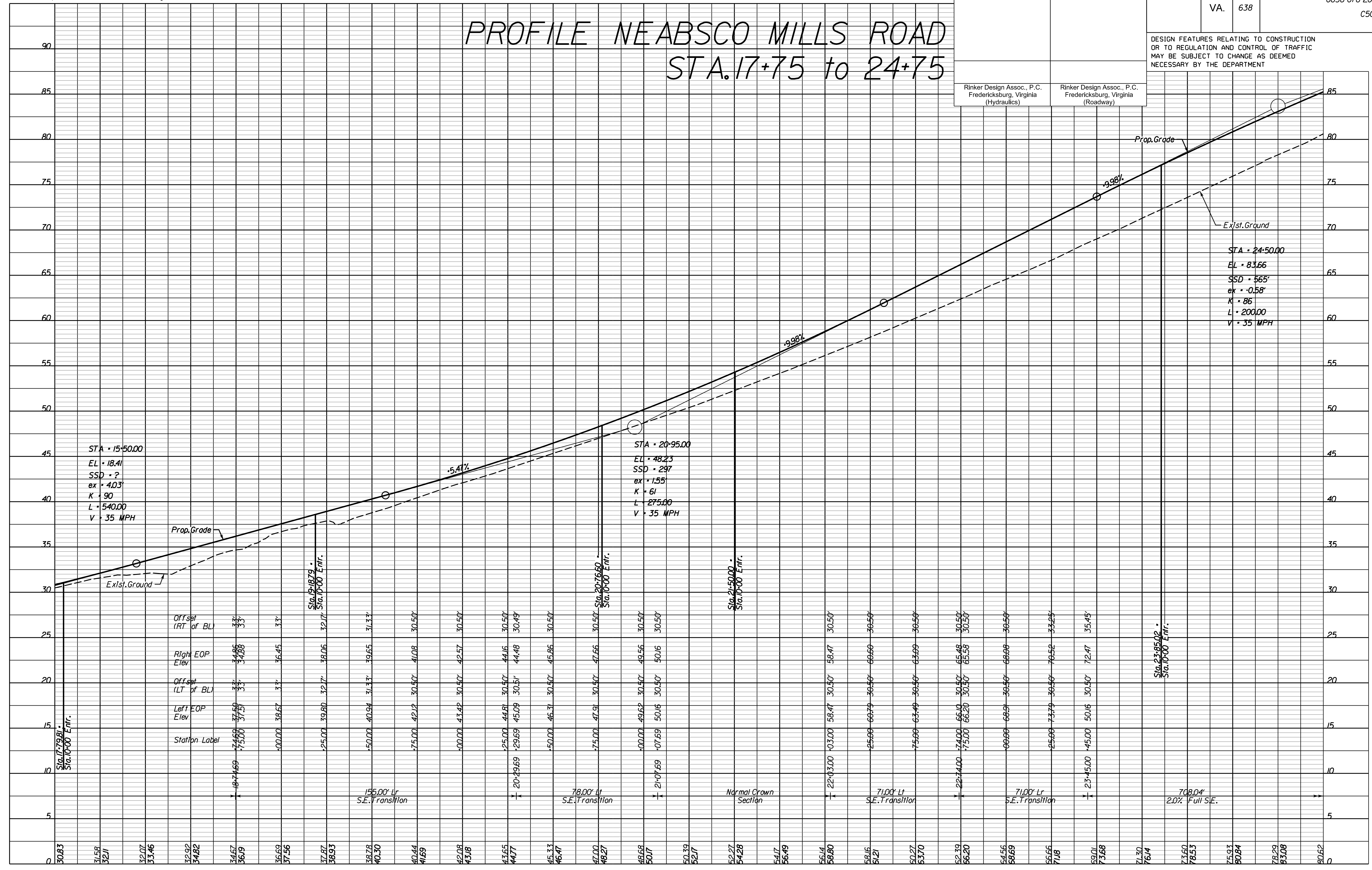
REVISED	STATE	ROUTE	STATE PROJECT	SHEET NO.
	VA.	638	0638-076-209 C501	4A

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
(Hydraulics)

Rinker Design Assoc., P.C.
Fredericksburg, Virginia
(Roadway)

PROFILE NEABSCO MILLS ROAD STA. 17+75 to 24+75



STA • 24+50.00
EL • 83.66
SSD • 565'
ex • -0.58'
K • 86
L • 200.00
V • 35 MPH

STA • 15+50.00
EL • 18.41
SSD • ?
ex • 4.03'
K • 90
L • 540.00
V • 35 MPH

STA • 20+95.00
EL • 48.23
SSD • 297
ex • 1.55'
K • 61
L • 275.00
V • 35 MPH

Station Label	17+75	18+00	18+25	18+50	18+75	19+00	19+25	19+50	19+75	20+00	20+25	20+50	20+75	21+00	21+25	21+50	21+75	22+00	22+25	22+50	22+75	23+00	23+25	23+50	23+75	24+00	24+25	24+50
Right EOP Elev	34.88	34.88	34.88	34.88	34.88	36.45	36.45	36.45	36.45	36.45	36.45	36.45	36.45	36.45	36.45	36.45	36.45	36.45	36.45	36.45	36.45	36.45	36.45	36.45	36.45	36.45	36.45	36.45
Left EOP Elev	37.50	37.50	37.50	37.50	37.50	38.67	38.67	38.67	38.67	38.67	38.67	38.67	38.67	38.67	38.67	38.67	38.67	38.67	38.67	38.67	38.67	38.67	38.67	38.67	38.67	38.67	38.67	38.67

SCALE: HORIZ: 1"=25', VERT: 1"=5'

VDOT PROJECT NO. 0638-076-209
PWCDOT PROJECT NO. SPR2018-00271

SHEET NO. 4A

THESE PLANS ARE UNFINISHED AND UNAPPROVED AND ARE NOT TO BE USED FOR ANY TYPE OF CONSTRUCTION.

R.W. PHASE PLANS

PROJECT MANAGER PWCDOT: Khattab, Shamout, PE - (703) 792-7193
SURVEYED BY, DATE RDA: Ryan, Debelin, LS (703) 334-9302, July 3, 2017
DESIGN BY RDA: Mark A. Guoa, PE - (703) 334-9288
SUBSURFACE UTILITY BY, DATE Accurmark (703) 378-0100, August 1, 2017

REVISED	STATE	ROUTE	STATE PROJECT	SHEET NO
	VA.	638	0638-076-209 C501	4B

ENTRANCE PROFILES

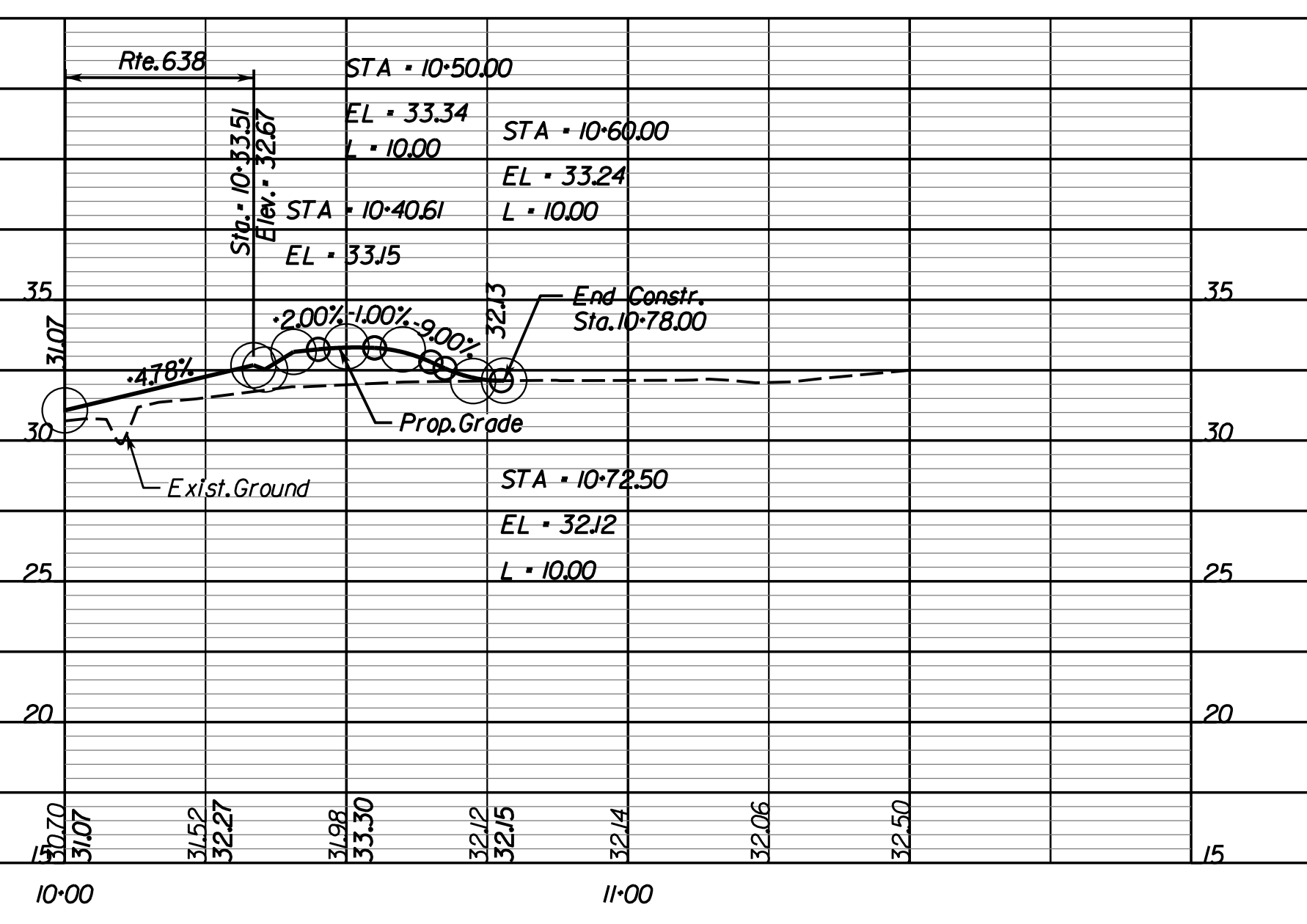
Rinker Design Assoc., P.C.
Fredericksburg, Virginia
(Hydraulics)

Rinker Design Assoc., P.C.
Fredericksburg, Virginia
(Roadway)

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

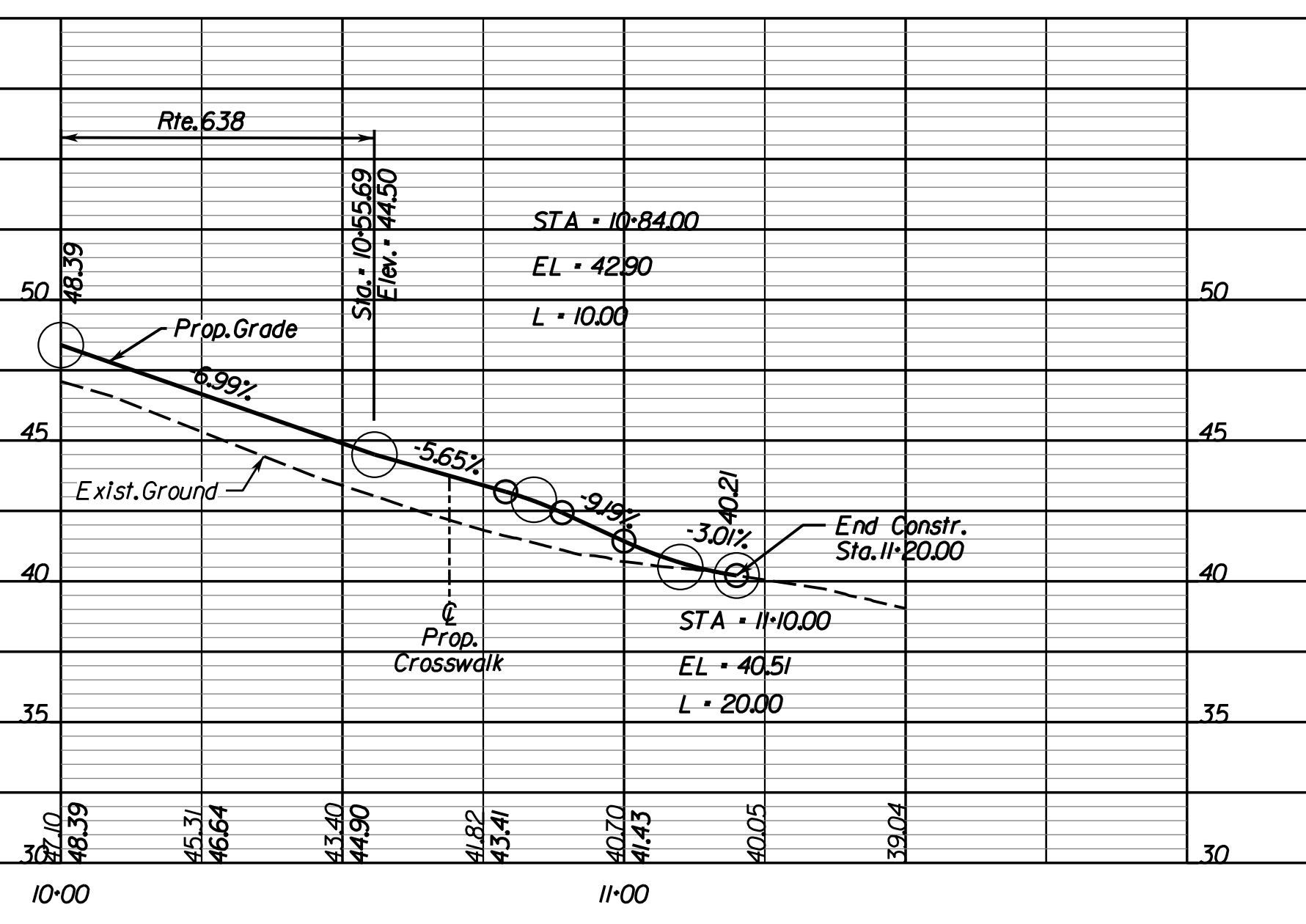
Commercial CG-13 Entr. (Mid Atlantic Wrecker)

Sta. 17-79.81 Lt. off of Rte. 638 Constr. Bl.



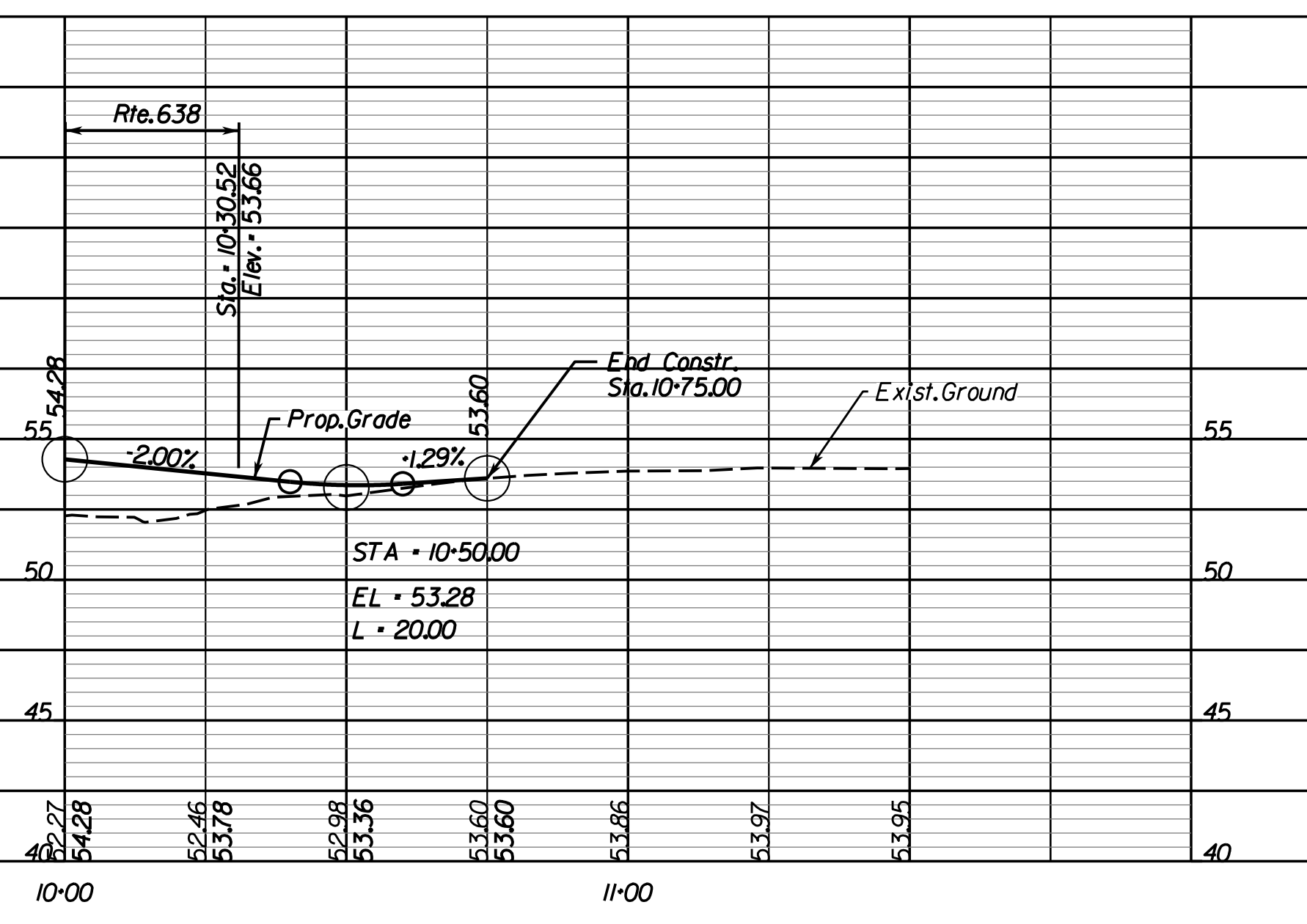
Commercial CG-11 Entr. (Koons Right Out Only)

Sta. 20-76.60 Rt. off of Rte. 638 Constr. Bl.



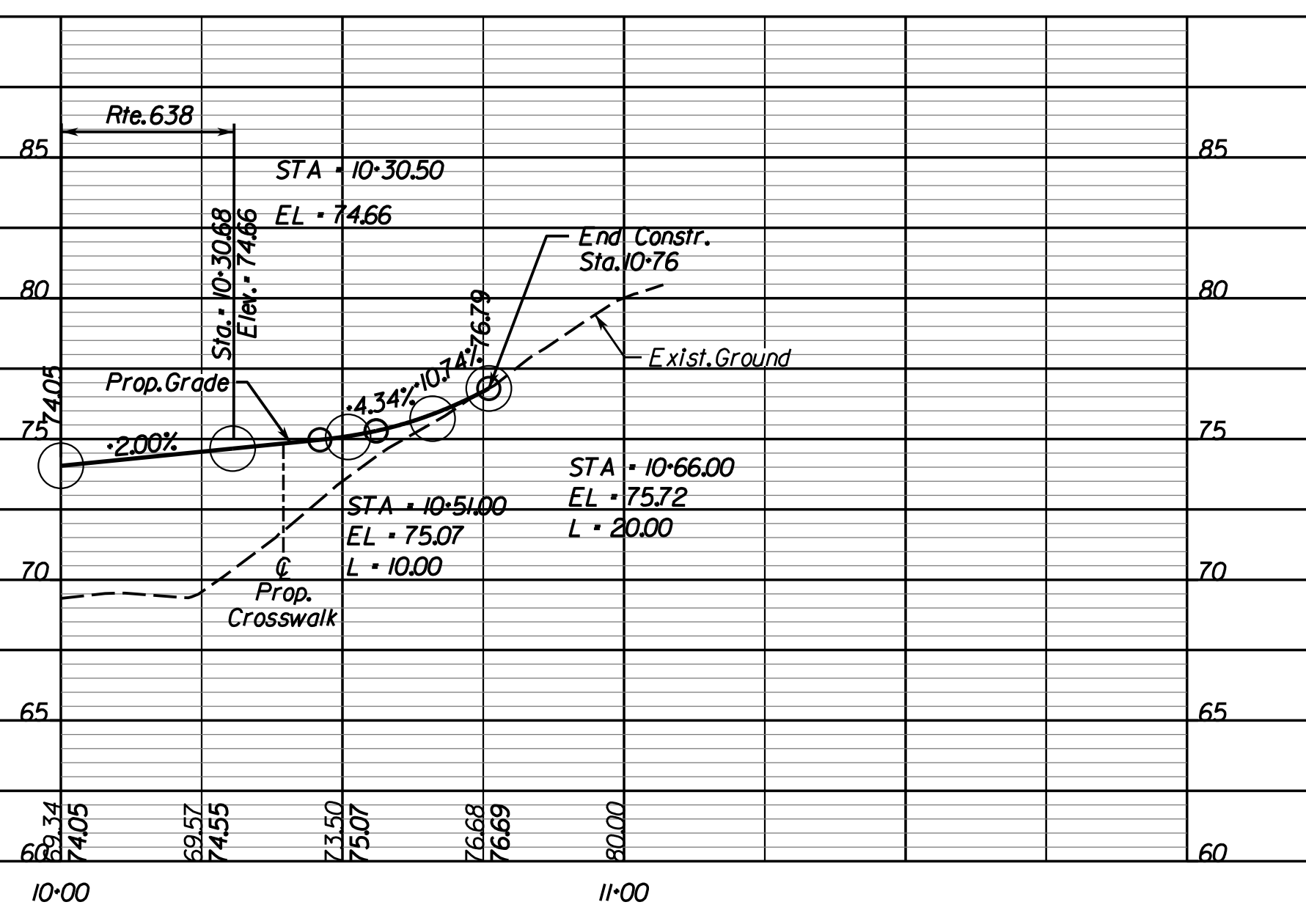
Commercial CG-13 Entr. (Redman)

Sta. 21-50.00 Lt. off of Rte. 638 Constr. Bl.



Commercial CG-11 Entr. (Veterinary)

Sta. 23-53.66 Lt. off of Rte. 638 Constr. Bl.



SCALE HORIZ: 1"=25'
0 10' 25'

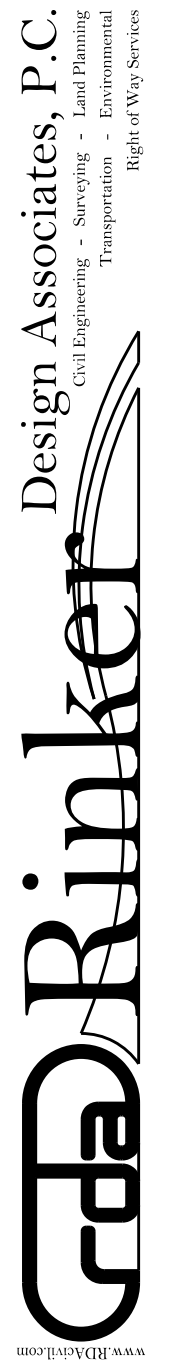
VERT: 1"=5'
0 1 2

VDOT PROJECT NO. 0638-076-209
PWCDOT PROJECT NO. SPR2018-00271

SHEET NO. 4B

THESE PLANS ARE UNFINISHED AND UNAPPROVED AND ARE NOT TO BE USED FOR ANY TYPE OF CONSTRUCTION.

R.W. PHASE PLANS



PROJECT MANAGER: EWCDOT - Khattab, Shammaoui, P.E. (703) 792-7193
SURVEYED BY, DATE: RDA, Bryan Drea'la, LS (703) 334-9302, July 3, 2017
DESIGN BY: RDA, Mack, & Gunn, P.E. (703) 334-9288
SUBSURFACE UTILITY BY, DATE: Accurmark (703) 378-0100, August 1, 2017

REVISED	STATE	ROUTE	STATE	VDOT PROJECT NO.	SHEET NO.
	VA.	638		0638-076-209 PE101 CS01 RW201	5

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
(Hydraulics)

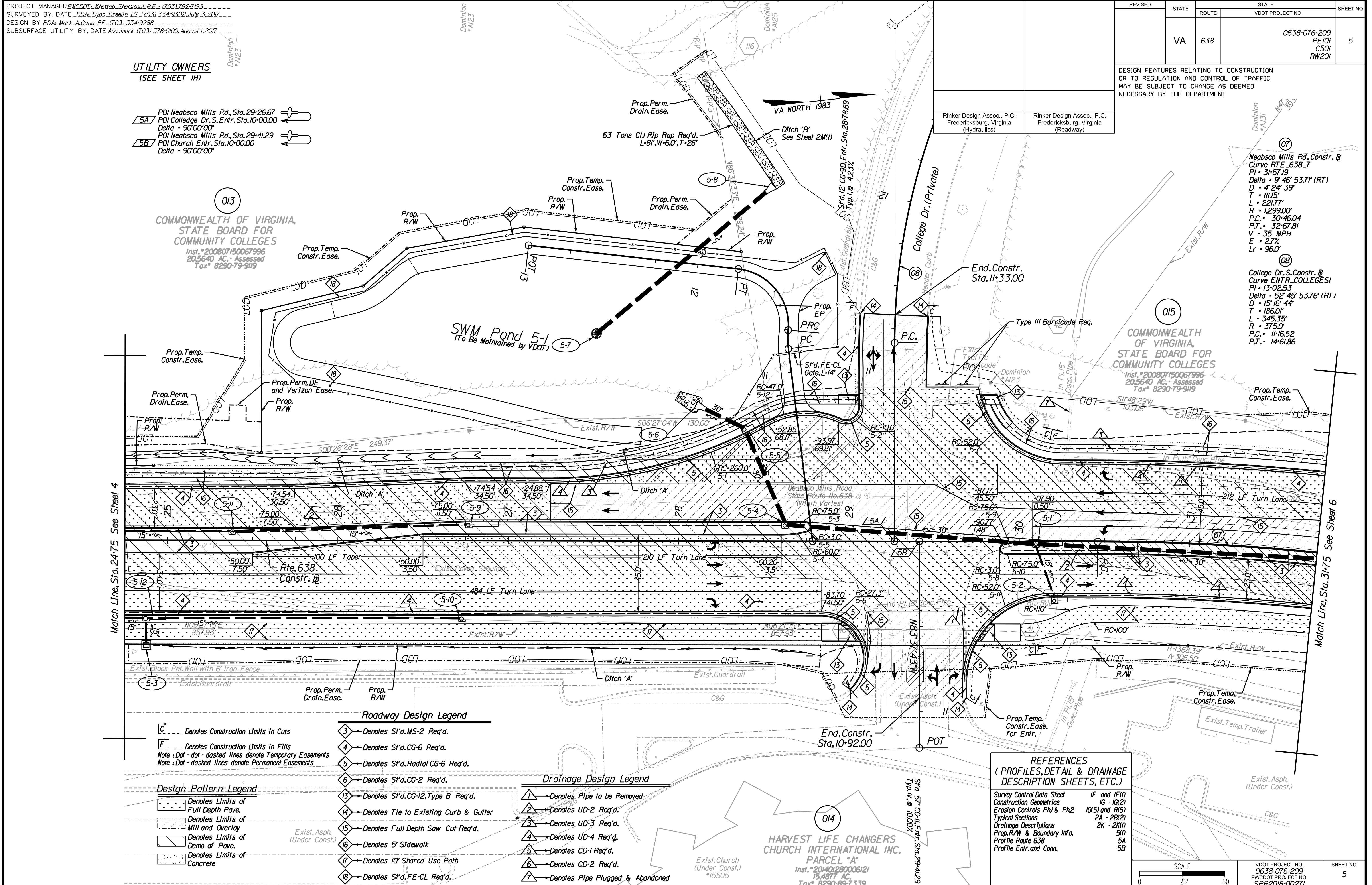
Rinker Design Assoc., P.C.
Fredericksburg, Virginia
(Roadway)

UTILITY OWNERS
(SEE SHEET 1H)

- 5A POI Neabsco Mills Rd, Sta. 29+26.67
- 5A POI College Dr. S. Entr, Sta. 10+00.00
Delta = 90'00"00
- 5B POI Neabsco Mills Rd, Sta. 29+41.29
- 5B POI Church Entr, Sta. 10+00.00
Delta = 90'00"00

**COMMONWEALTH OF VIRGINIA
STATE BOARD FOR
COMMUNITY COLLEGES**
Inst. #200807150067996
20,5640 AC - Assessed
Tax# 8290-79-919

**COMMONWEALTH OF VIRGINIA,
STATE BOARD FOR
COMMUNITY COLLEGES**
Inst. #200807150067996
20,5640 AC - Assessed
Tax# 8290-79-919



Match Line, Sta. 24+75 See Sheet 4

Match Line, Sta. 31+75 See Sheet 6

Construction Limits Legend
[C] --- Denotes Construction Limits In Cuts
[E] --- Denotes Construction Limits In Fills
Note: Dot-dot-dashed lines denote Temporary Easements
Note: Dot-dashed lines denote Permanent Easements

Design Pattern Legend
[Pattern] Denotes Limits of Full Depth Pavement
[Pattern] Denotes Limits of Mill and Overlay
[Pattern] Denotes Limits of Demo of Pavement
[Pattern] Denotes Limits of Concrete

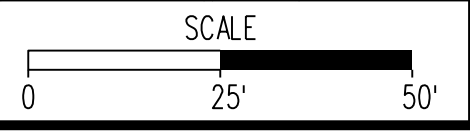
- Roadway Design Legend**
- 3 - Denotes S1'd. MS-2 Req'd.
 - 4 - Denotes S1'd. CG-6 Req'd.
 - 5 - Denotes S1'd. Radial CG-6 Req'd.
 - 6 - Denotes S1'd. CG-2 Req'd.
 - 13 - Denotes S1'd. CG-12, Type B Req'd.
 - 14 - Denotes Tie to Existing Curb & Gutter
 - 15 - Denotes Full Depth Saw Cut Req'd.
 - 16 - Denotes 5' Sidewalk
 - 17 - Denotes 10' Shared Use Path
 - 18 - Denotes S1'd. FE-CL Req'd.

- Drainage Design Legend**
- 1 - Denotes Pipe to be Removed
 - 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 Plugged & Abandoned

REFERENCES
(PROFILES, DETAIL & DRAINAGE DESCRIPTION SHEETS, ETC.)

Survey Control Data Sheet	IF and IF(1)
Construction Geometrics	16 - 10(2)
Erosion Controls Ph1 & Ph2	10(5) and 10(5)
Typical Sections	2A - 2B(2)
Drainage Descriptions	2K - 2X(1)
Prop. R/W & Boundary Info.	5(1)
Profile Route 638	5A
Profile Entr. and Conn.	5B

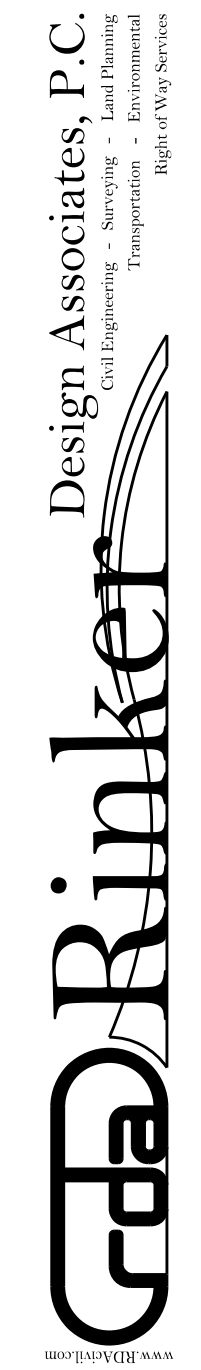
**HARVEST LIFE CHANGERS
CHURCH INTERNATIONAL INC.**
PARCEL "A"
Inst. #201401280006121
15,4877 AC
Tax# 8290-89-7339



VDOT PROJECT NO.	0638-076-209	SHEET NO.	5
PWCDDOT PROJECT NO.	SPR2018-00271		

THESE PLANS ARE UNFINISHED AND UNAPPROVED AND ARE NOT TO BE USED FOR ANY TYPE OF CONSTRUCTION.

R/W PHASE PLANS



PROJECT MANAGER: *EWCDOT - Ma. Appraiser - (703) 792-7193*
SURVEYED BY, DATE: *RDA: Ryan Drexler LS (703) 334-9302, July 3, 2017*
DESIGN BY: *RDA: Mack & Gunn PE (703) 334-9288*
SUBSURFACE UTILITY BY, DATE: *Accumark (703) 378-0100, August 1, 2017*

Prop. R/W and Survey Boundary Info. (for information purposes only)

REVISED	STATE	ROUTE	STATE	VDOT PROJECT NO.	SHEET NO.
	VA.	638			
				0638-076-209 PE/01 C501	5(1)

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

Note 1. The Existing Easements For Gpin 8290-89-7339 Are Recorded In Instr. *200908030076578, But As Per Dewberry, The Wrong Plat Was Recorded As The Easements On The Recorded Plat In Instrument *200908030076579 Do Not Match The Approved Site Plan (Plan *08-00252 R00 S03). Dewberry Is In The Process Of Correcting This Error So That The Proposed Easements Shown Hereon Are From The Plat That Should Have Been Recorded.

- 5A POI Neabsco Mills Rd., Sta. 29+26.67
- POI Colledge Dr. S. Entr., Sta. 10+00.00
Delta = 90°00'00"
- 5B POI Neabsco Mills Rd., Sta. 29+41.29
- POI Church Entr., Sta. 10+00.00
Delta = 90°00'00"

UTILITY OWNERS
(SEE SHEET 1H)

013

COMMONWEALTH OF VIRGINIA,
STATE BOARD FOR
COMMUNITY COLLEGES
Inst. *200807150067996
20,5640 AC. - Assessed
Tax* 8290-79-9119

015

COMMONWEALTH OF VIRGINIA,
STATE BOARD FOR
COMMUNITY COLLEGES
Inst. *200807150067996
20,5640 AC. - Assessed
Tax* 8290-79-9119

014

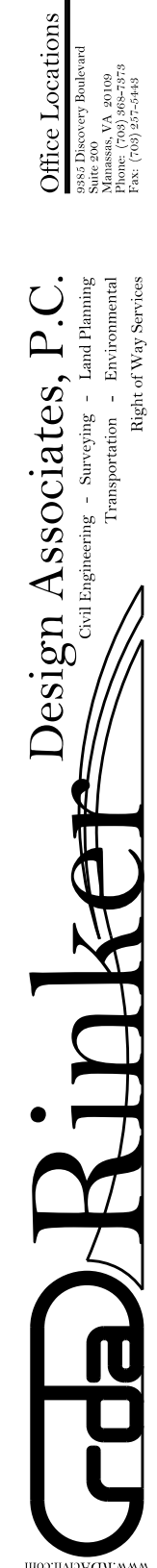
HARVEST LIFE CHANGERS
CHURCH INTERNATIONAL INC.
PARCEL "A"
Inst. *201401280006121
15,4877 AC.
Tax* 8290-89-7339

REFERENCES
(PROFILES, DETAIL & DRAINAGE
DESCRIPTION SHEETS, ETC.)
Plan Sheet 5

SCALE 0 25' 50'	VDOT PROJECT NO. 0638-076-209, C501 PWCDOT PROJECT NO. SPR2018-00271	SHEET NO. 5(1)
--------------------	---	-------------------

THESE PLANS ARE UNFINISHED AND UNAPPROVED AND ARE NOT TO BE USED FOR ANY TYPE OF CONSTRUCTION.

R/W PHASE PLANS



Office Locations
Rinker Design Associates, P.C.
10000 Woodloch Forest Drive
Fredericksburg, VA 22409
Phone: (540) 371-1100
Fax: (540) 371-1101

Rinker Design Associates, P.C.
Civil Engineers
Transportation - Environmental
Right of Way Services
www.rinker.com

PROJECT MANAGER: PWCDOT: Khattab, Shamout, PE - (703) 792-7193
SURVEYED BY, DATE: RDA: Ryan, Debelin, LS - (703) 334-9302, July 3, 2017
DESIGN BY: RDA: Mark A. Guoa, PE - (703) 334-9288
SUBSURFACE UTILITY BY, DATE: AccuMark (703) 378-0100, August 1, 2017

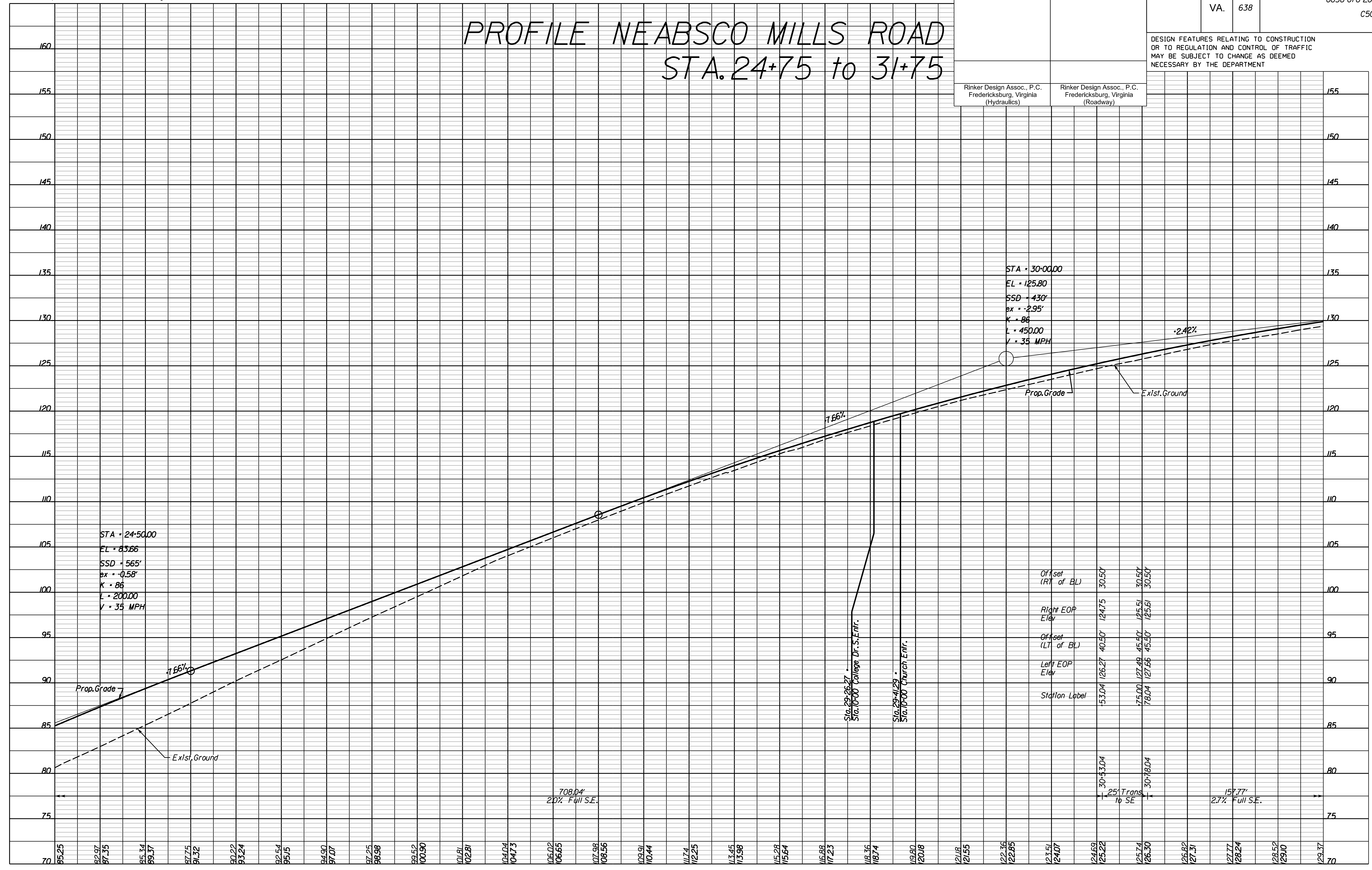
REVISED	STATE	ROUTE	STATE PROJECT	SHEET NO
	VA.	638	0638-076-209 C501	5A

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
(Hydraulics)

Rinker Design Assoc., P.C.
Fredericksburg, Virginia
(Roadway)

PROFILE NEABSCO MILLS ROAD STA. 24+75 to 31+75



Offset (RT of BL)	30.50'	30.50'	30.50'
Right EOP Elev	124.75	125.51	125.61
Offset (LT of BL)	40.50'	45.50'	45.50'
Left EOP Elev	126.27	127.66	127.66
Station Label	53.04	75.00	78.04

30+53.04
25' Trans to SE
30+78.04

157.77'
2.7% Full SE.

708.04'
2.0% Full SE.

SCALE: HORIZ: 1"=25'
VERT: 1"=5'

VDOT PROJECT NO. 0638-076-209
PWCDOT PROJECT NO. SPR2018-00271

SHEET NO. 5A

THESE PLANS ARE UNFINISHED AND UNAPPROVED AND ARE NOT TO BE USED FOR ANY TYPE OF CONSTRUCTION.

R.W. PHASE PLANS

Office Locations
 Rinker Design Associates, P.C.
 10000 University Blvd
 Suite 1000
 Fairfax, VA 22030
 Phone: (703) 261-1100
 Fax: (703) 261-1101
 www.rinker.com

PROJECT MANAGER: PWCDOT: Khattab, Shammout, PE - (703) 792-7193
 SURVEYED BY, DATE: RDA: Ryan, Dcebln, LS - (703) 334-9302, July 3, 2017
 DESIGN BY: RDA: Mark, A. Guoa, PE - (703) 334-9288
 SUBSURFACE UTILITY BY, DATE: Accurmark, (703) 378-0100, August 1, 2017

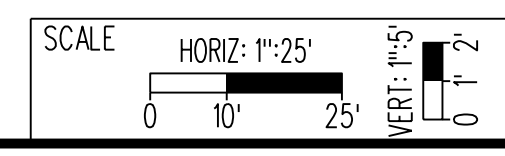
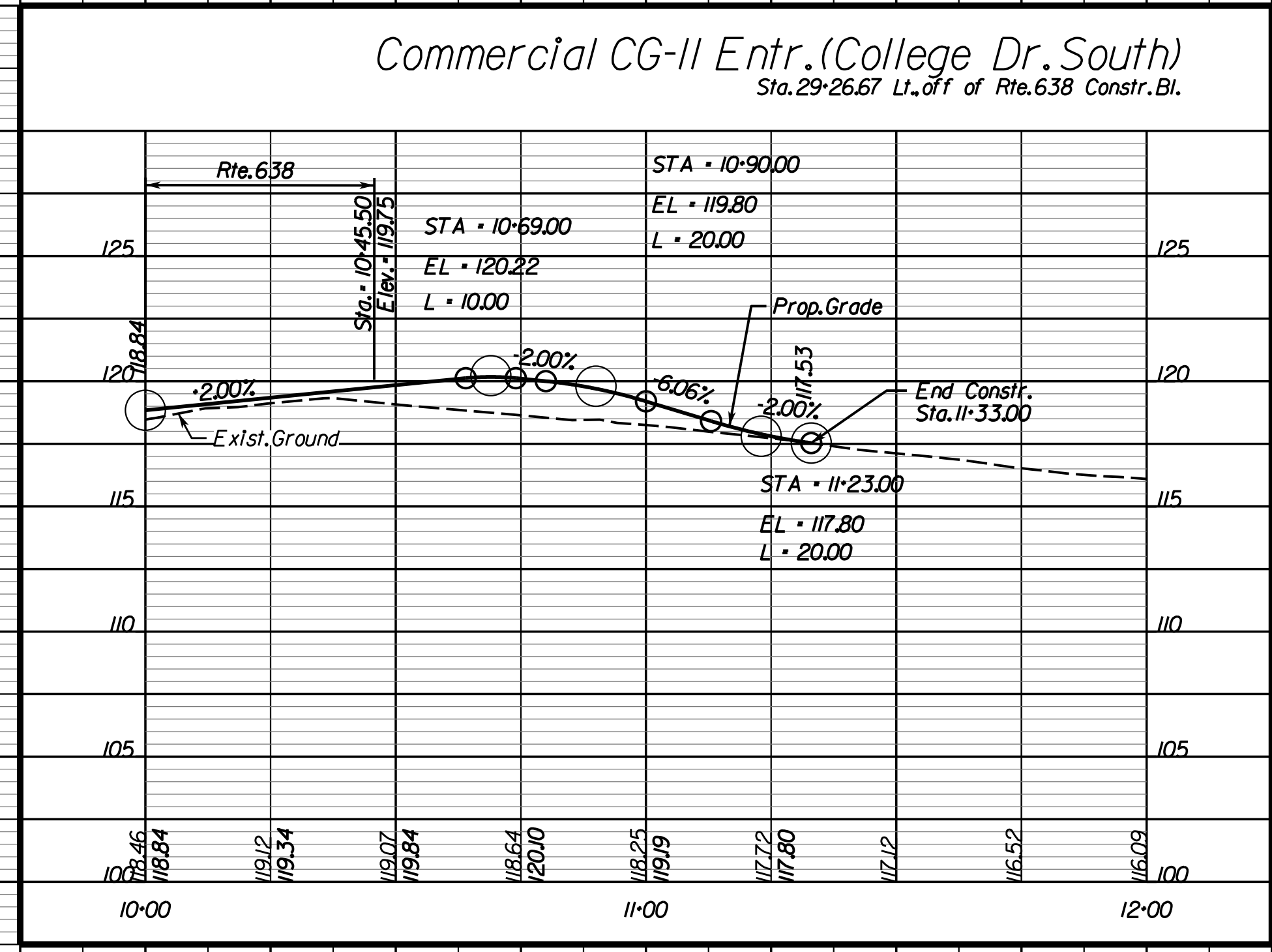
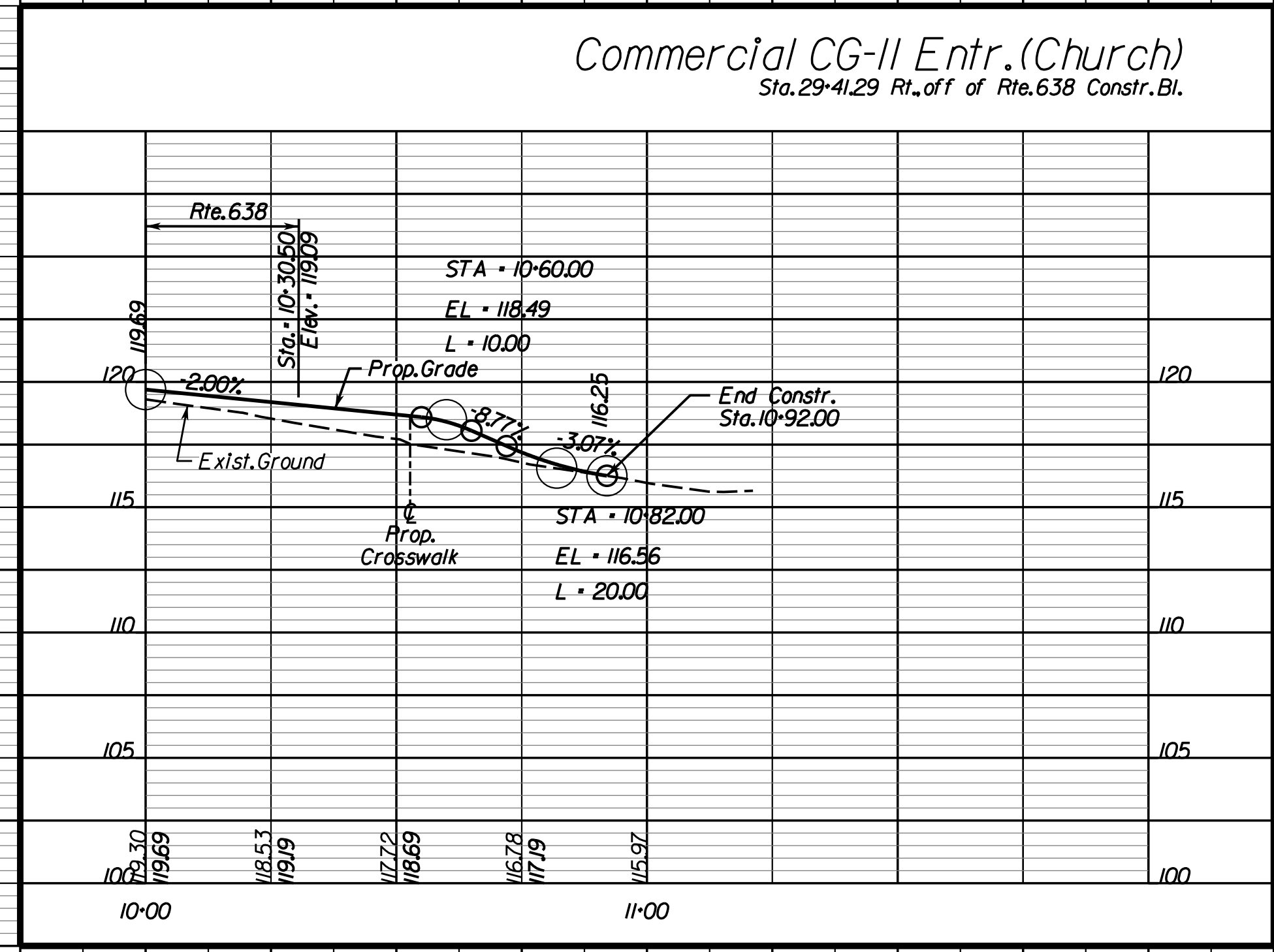
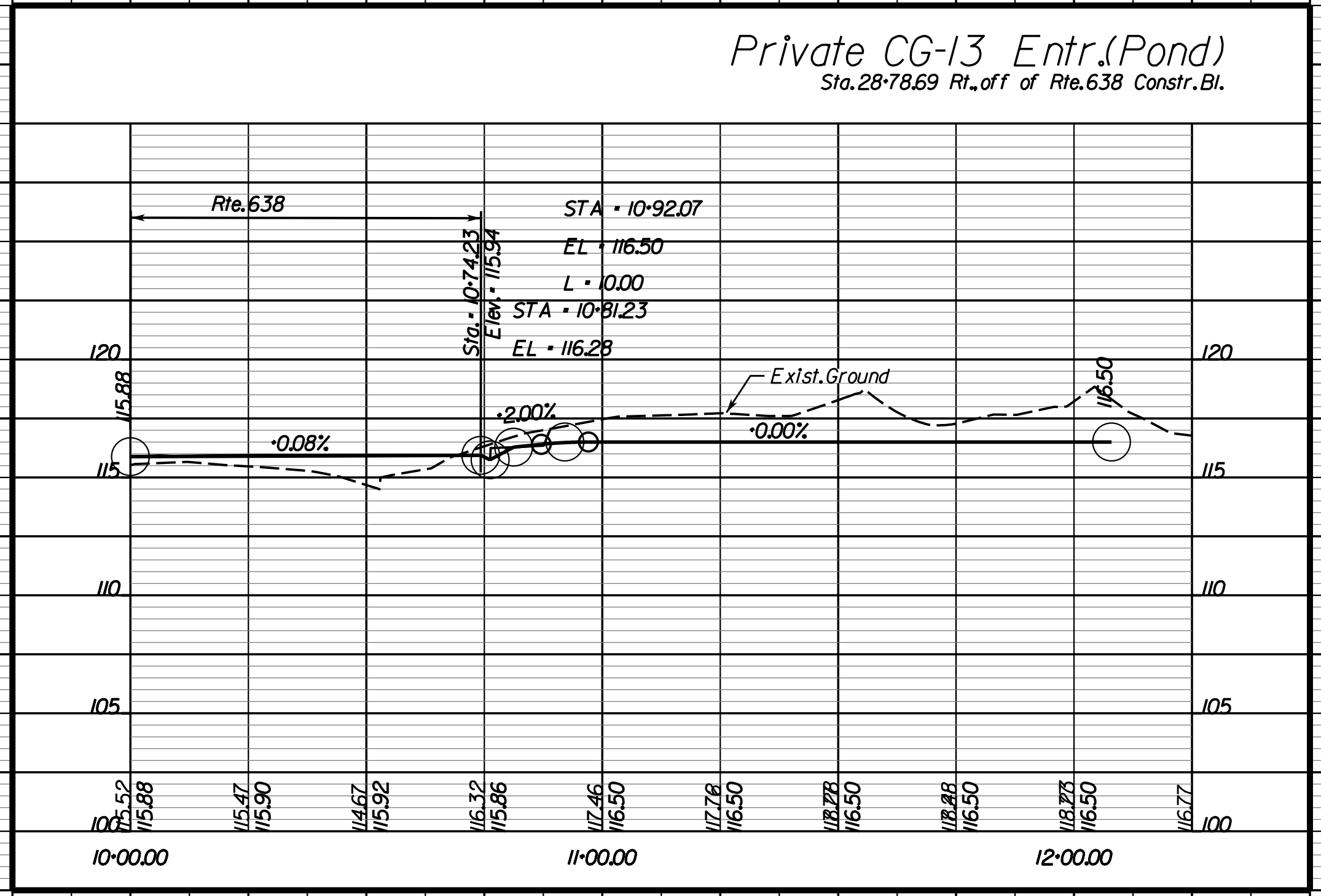
REVISED	STATE	ROUTE	STATE PROJECT	SHEET NO.
	VA.	638	0638-076-209 C501	5B

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
 (Hydraulics)

Rinker Design Assoc., P.C.
 Fredericksburg, Virginia
 (Roadway)

ENTRANCE PROFILES



VDOT PROJECT NO. 0638-076-209
 PWCDOT PROJECT NO. SPR2018-00271

SHEET NO. 5B

THESE PLANS ARE UNFINISHED AND UNAPPROVED AND ARE NOT TO BE USED FOR ANY TYPE OF CONSTRUCTION.

R.W. PHASE PLANS

PROJECT MANAGER: EWCDOT - Khattab, Shammout, P.E. : (703) 792-7193
SURVEYED BY, DATE: RDA: Bryan Drea, LS (703) 334-9302, July 3, 2017
DESIGN BY: RDA: Mack, A. Gunn, P.E. (703) 334-9288
SUBSURFACE UTILITY BY, DATE: Accurack (703) 378-0100, August 1, 2017

Dominion #A140

Dominion #A145

Dominion #A157

REVISED	STATE	ROUTE	STATE	VDOT PROJECT NO.	SHEET NO.
	VA.	638		0638-076-209 PE101 CS01 RW201	6

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 (Hydraulics)	Rinker Design Assoc., P.C. Fredericksburg, Virginia (Roadway)
--	---

Roadway Design Legend

- ③ - Denotes Str'd. MS-2 Req'd.
- ④ - Denotes Str'd. CG-6 Req'd.
- ⑤ - Denotes Full Depth Saw Cut Req'd.
- ⑥ - Denotes 5' Sidewalk
- ⑦ - Denotes 10' Shared Use Path

Drainage Design Legend

- ▲ - Denotes Pipe to be Removed
- ▲ - Denotes UD-2 Req'd.
- ▲ - Denotes UD-3 Req'd.
- ▲ - Denotes UD-4 Req'd.
- ▲ - Denotes CD-1 Req'd.
- ▲ - Denotes CD-2 Req'd.
- ▲ - Denotes Pipe Plugged & Abandoned

C --- Denotes Construction Limits in Cuts
F --- Denotes Construction Limits in Fills

Note: Dot-dot-dashed lines denote Temporary Easements
Note: Dot-dashed lines denote Permanent Easements

Design Pattern Legend

- Denotes Limits of Full Depth Pave.
- ▨ Denotes Limits of Mill and Overlay
- ▧ Denotes Limits of Demo of Pave.
- ▩ Denotes Limits of Concrete

⑩ Neabsco Mills Rd., Congr.
Curve RTE 638.9
PI = 36+99.49
Delta = 48° 16' 37.7" (LT)
D = 12' 19' 18"
T = 208.38'
L = 391.81'
R = 465.00'
P.C. = 34+91.11
P.T. = 38+82.92
V = 35 MPH
E = 3.9%
Lr = 139.0'

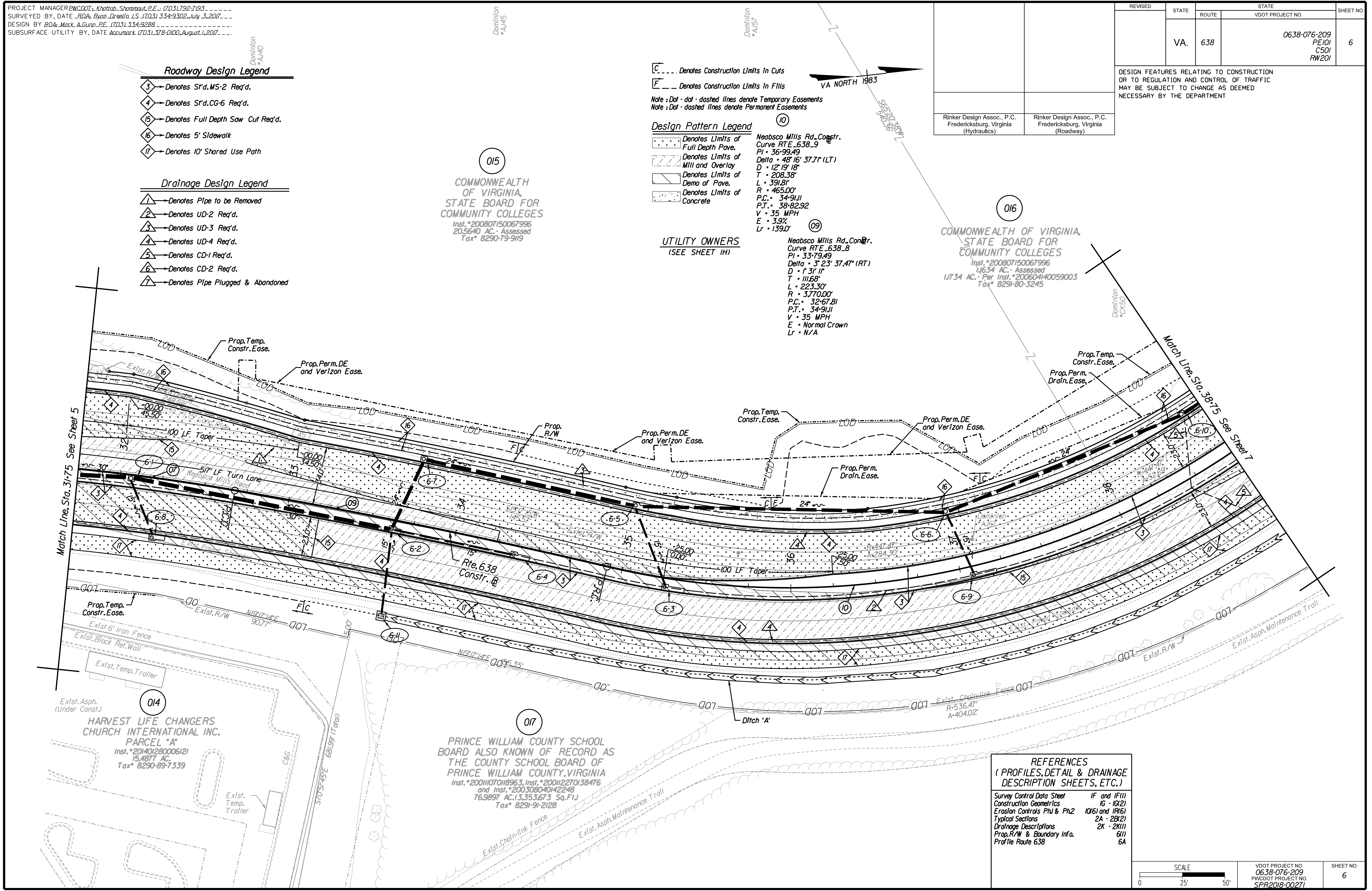
⑨ Neabsco Mills Rd., Con@r.
Curve RTE 638.8
PI = 33+79.49
Delta = 3° 23' 37.4" (RT)
D = 1' 31' 11"
T = 111.68'
L = 223.30'
R = 3770.00'
P.C. = 32+67.81
P.T. = 34+91.11
V = 35 MPH
E = Normal Crown
Lr = N/A

UTILITY OWNERS
(SEE SHEET 1H)

015
COMMONWEALTH OF VIRGINIA,
STATE BOARD FOR
COMMUNITY COLLEGES
Inst. #200807150067996
20,5640 AC. - Assessed
Tax# 8290-79-9119

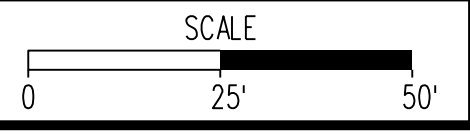
016
COMMONWEALTH OF VIRGINIA,
STATE BOARD FOR
COMMUNITY COLLEGES
Inst. #200807150067996
1,634 AC. - Assessed
1,734 AC. - Per Inst. #200604140059003
Tax# 8291-80-3245

Design Associates, P.C.
Civil Engineering, Surveying, Land Planning,
Transportation, Environmental,
Right of Way Services



REFERENCES
(PROFILES, DETAIL & DRAINAGE DESCRIPTION SHEETS, ETC.)

Survey Control Data Sheet	IF and IF(1)
Construction Geometrics	IG - IG(2)
Erosion Controls Ph1 & Ph2	IO(6) and IR(6)
Typical Sections	2A - 2B(2)
Drainage Descriptions	2K - 2K(1)
Prop. R/W & Boundary Info.	6(I)
Profile Route 638	6A



VDOT PROJECT NO. 0638-076-209 PWCDOT PROJECT NO. SPR2018-00271	SHEET NO. 6
---	----------------

THESE PLANS ARE UNFINISHED AND UNAPPROVED AND ARE NOT TO BE USED FOR ANY TYPE OF CONSTRUCTION.

R/W PHASE PLANS

PROJECT MANAGER: EWCDOT - Ma. Ayoubi - (703) 792-7193
SURVEYED BY, DATE: RDA: Ryan Dreel/a LS (703) 334-9302, July 3, 2017
DESIGN BY: RDA: Mack & Gunn PE (703) 334-9288
SUBSURFACE UTILITY BY, DATE: Accurmark (703) 378-0100, August 1, 2017

Prop. R/W and Survey Boundary Info. (for information purposes only)

REVISED	STATE		STATE		SHEET NO.
	ROUTE	VDOT PROJECT NO.	VDOT PROJECT NO.	VDOT PROJECT NO.	
	VA.	638	0638-076-209 PE/01 C501		6(1)

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

Note 1. The Existing Easements For Gpin 8290-89-7339 Are Recorded In Instr. #200908030076578, But As Per Dewberry, The Wrong Plat Was Recorded As The Easements On The Recorded Plat In Instrument #200908030076579. Do Not Match The Approved Site Plan (Plan #08-00252 R00 S03). Dewberry Is In The Process Of Correcting This Error So That The Proposed Easements Shown Hereon Are From The Plat That Should Have Been Recorded.

UTILITY OWNERS
(SEE SHEET 1H)

015
COMMONWEALTH OF VIRGINIA,
STATE BOARD FOR
COMMUNITY COLLEGES
Inst. #200807150067996
20,5640 AC. - Assessed
Tax# 8290-79-9119

016
COMMONWEALTH OF VIRGINIA,
STATE BOARD FOR
COMMUNITY COLLEGES
Inst. #200807150067996
1,634 AC. - Assessed
1,1734 AC. - Per Inst. #200604140059003
Tax# 8291-80-3245

Prop. Temp. Constr. Ease.
Prop. Perm. DE and Verizon Ease.

Prop. Temp. Constr. Ease.
Prop. Perm. DE and Verizon Ease.

Prop. Temp. Constr. Ease.
Prop. Perm. Drain. Ease.

Prop. Temp. Constr. Ease.
Exist. R/W 119'17"14"E 90.77'

017
PRINCE WILLIAM COUNTY SCHOOL BOARD ALSO KNOWN OF RECORD AS THE COUNTY SCHOOL BOARD OF PRINCE WILLIAM COUNTY, VIRGINIA
Inst. #20011070118963, Inst. #200112270138476 and Inst. #200308040142248
76,9897 AC. (3,353,673 Sq. Ft.)
Tax# 8291-91-2128

014
HARVEST LIFE CHANGERS CHURCH INTERNATIONAL INC. PARCEL "A"
Inst. #201401280006121
15,4877 AC.
Tax# 8290-89-7339

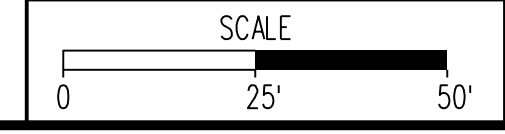
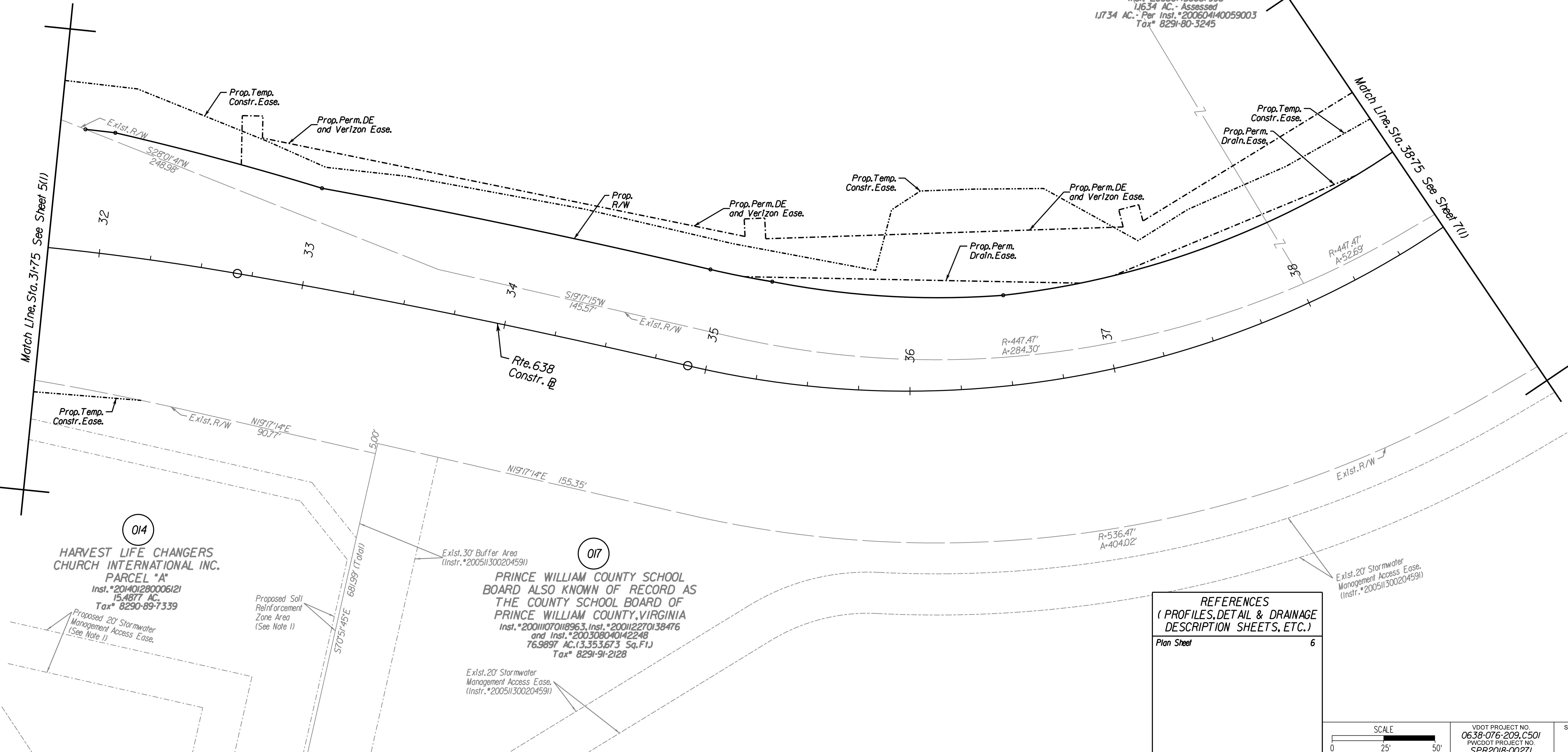
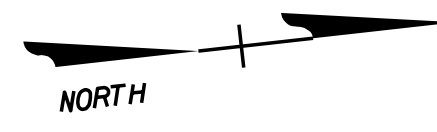
REFERENCES
(PROFILES, DETAIL & DRAINAGE DESCRIPTION SHEETS, ETC.)
Plan Sheet 6

Exist. 20' Stormwater Management Access Ease.
(Instr. #200511300204591)

Exist. 20' Stormwater Management Access Ease.
(Instr. #200511300204591)

Proposed Soil Reinforcement Zone Area
(See Note 1)

Proposed 20' Stormwater Management Access Ease.
(See Note 1)



VDOT PROJECT NO. 0638-076-209, C501	SHEET NO. 6(1)
PWCDOT PROJECT NO. SPR2018-00271	

THESE PLANS ARE UNFINISHED AND UNAPPROVED AND ARE NOT TO BE USED FOR ANY TYPE OF CONSTRUCTION.

R/W PHASE PLANS

CdA Rinker Design Associates, P.C.
Civil Engineering, Surveying, Land Planning, Transportation, Environmental, Right of Way Services
11000 Lee Blvd., Suite 200, Fairfax, VA 22031
Tel: (703) 571-1100 Fax: (703) 571-1101

Office Locations
Rinker Design Associates, P.C.
10000 Woodloch Forest Drive
Fredericksburg, VA 22409
Phone: (540) 371-1100
Fax: (540) 371-1101

Rinker Design Associates, P.C.
Civil Engineers
Transportation - Environmental
Right of Way Services

PROJECT MANAGER: PWCDOT: Khattab, Shamout, PE - (703) 792-7193
SURVEYED BY, DATE: RDA: Ryan, Dceblin, LS - (703) 334-9302, July 3, 2017
DESIGN BY: RDA: Mark A. Guora, PE - (703) 334-9288
SUBSURFACE UTILITY BY, DATE: Accurmark (703) 378-0100, August 1, 2017

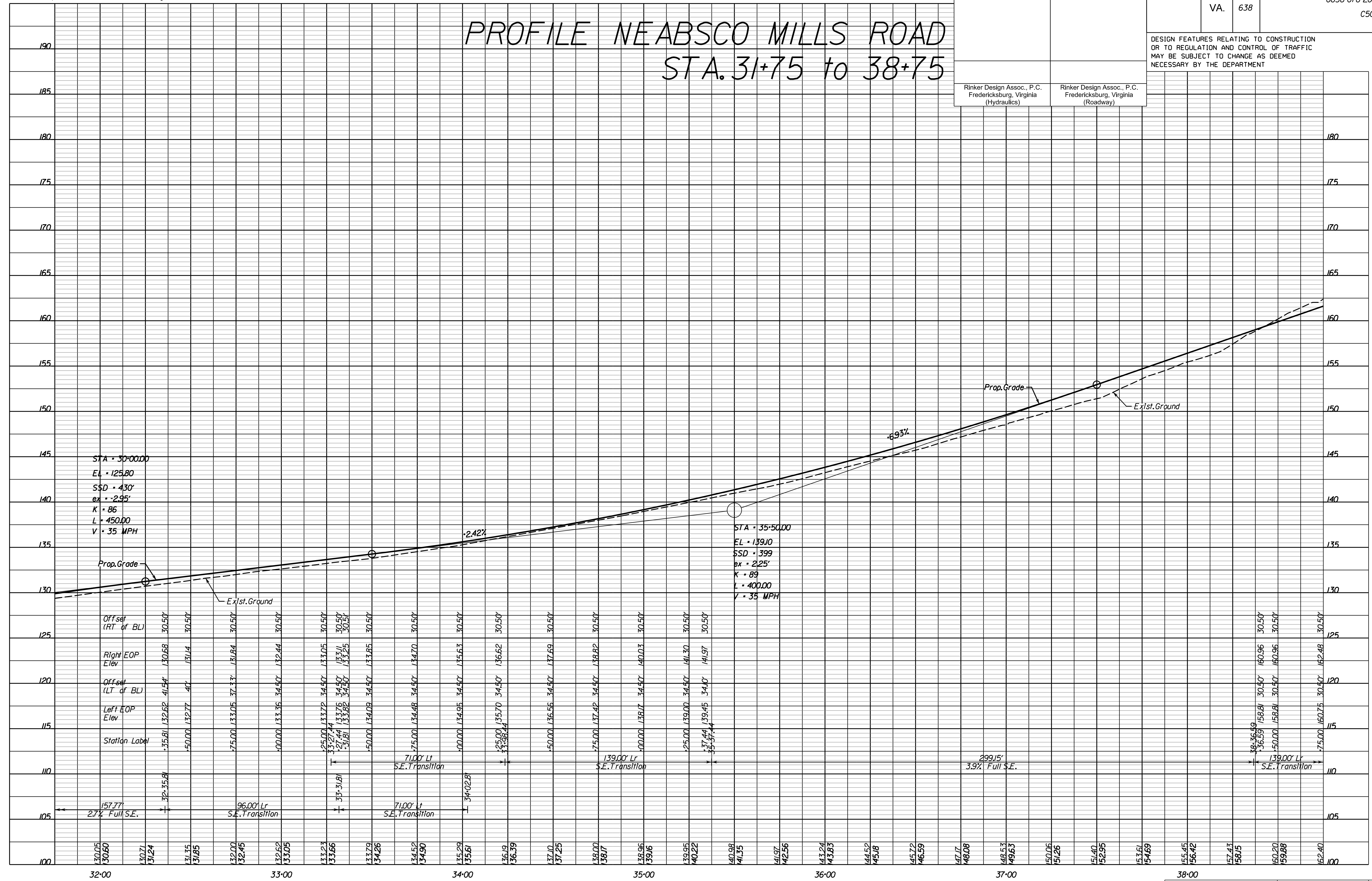
REVISED	STATE	ROUTE	STATE PROJECT	SHEET NO.
	VA.	638	0638-076-209 C501	6A

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
(Hydraulics)

Rinker Design Assoc., P.C.
Fredericksburg, Virginia
(Roadway)

PROFILE NEABSCO MILLS ROAD STA. 31+75 to 38+75



PROJECT MANAGER: EW/COT: Khattab, Shamout, P.E. (703) 792-7193
SURVEYED BY, DATE: RDA: Ryan Drea'lla, L.S. (703) 334-9302, July 3, 2017
DESIGN BY: RDA: Mack, Gunn, P.E. (703) 334-9288
SUBSURFACE UTILITY BY, DATE: Accumark (703) 378-0100, August 1, 2017

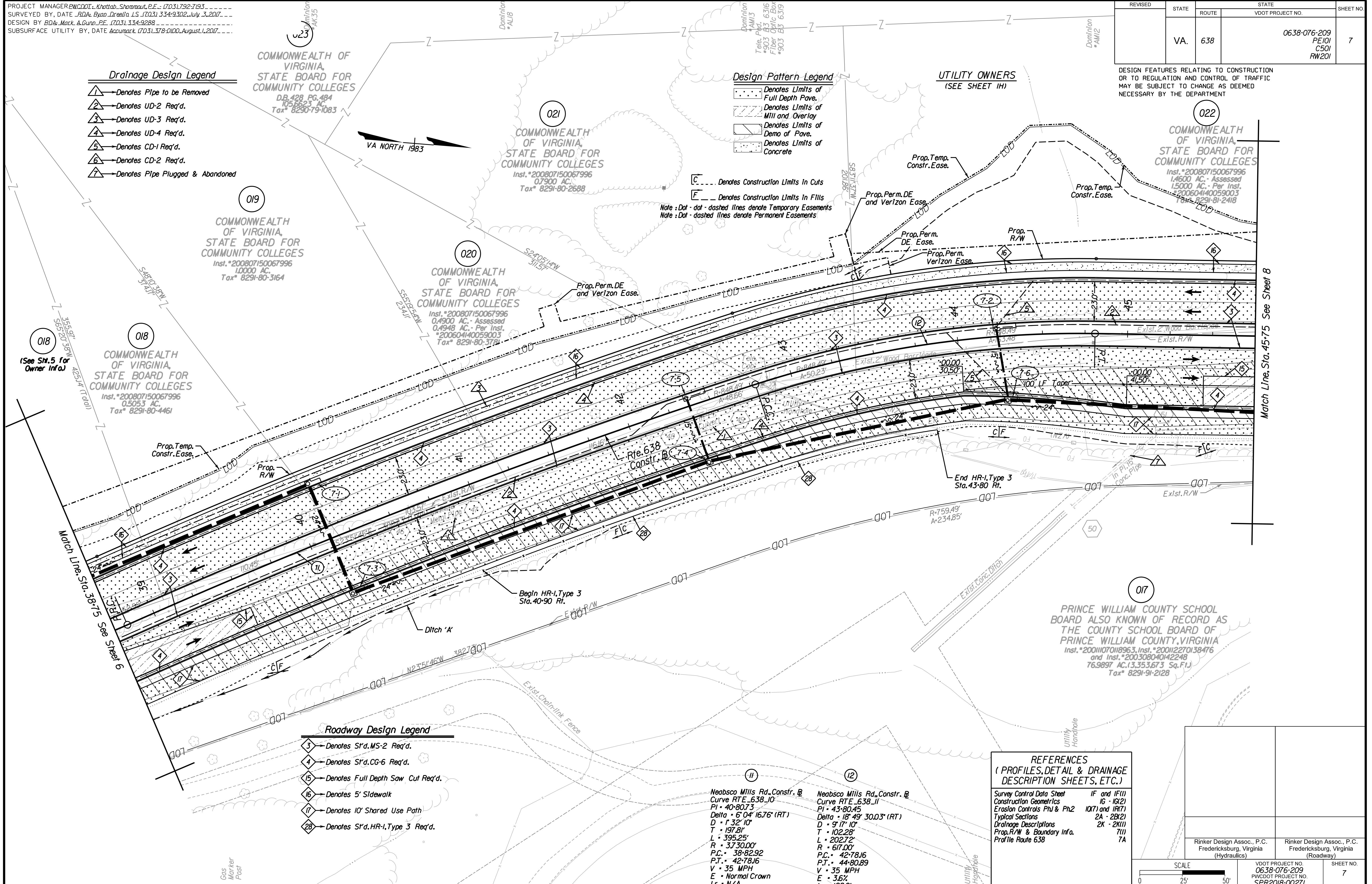
REVISED	STATE	ROUTE	STATE	VDOT PROJECT NO.	SHEET NO.
	VA.	638		0638-076-209	7
					FE/01 CS/01 RW/201

- Drainage Design Legend**
- 1 - Denotes Pipe to be Removed
 - 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 Plugged & Abandoned

- Design Pattern Legend**
- Denotes Limits of Full Depth Pavement
 - Denotes Limits of Mill and Overlay
 - Denotes Limits of Demo of Pavement
 - Denotes Limits of Concrete

UTILITY OWNERS
(SEE SHEET IH)

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



Cda Rinker
Design Associates, P.C.
Civil Engineering, Surveying, Land Planning, Transportation, Environmental

5/3/2019

- Roadway Design Legend**
- 3 - Denotes St'd. MS-2 Req'd.
 - 4 - Denotes St'd. CG-6 Req'd.
 - 15 - Denotes Full Depth Saw Cut Req'd.
 - 16 - Denotes 5' Sidewalk
 - 17 - Denotes 10' Shared Use Path
 - 28 - Denotes St'd. HR-I, Type 3 Req'd.

Neabsco Mills Rd., Constr. @
Curve RTE_638_10
PI = 40+80.73
Delta = 6° 04' 16.76" (RT)
D = 32' 10"
T = 197.81'
L = 395.25'
R = 3730.00'
P.C. = 38+82.92
P.T. = 42+78.16
V = 35 MPH
E = Normal Crown
Lr = N/A

Neabsco Mills Rd., Constr. @
Curve RTE_638_11
PI = 43+80.45
Delta = 18° 49' 30.03" (RT)
D = 9' 17' 10"
T = 102.28'
L = 202.72'
R = 617.00'
P.C. = 42+78.16
P.T. = 44+80.89
V = 35 MPH
E = 3.6%
Lr = 128.0'

REFERENCES
(PROFILES, DETAIL & DRAINAGE DESCRIPTION SHEETS, ETC.)

Survey Control Data Sheet	IF and IF(1)
Construction Geometrics	16 - 10(2)
Erosion Controls Ph1 & Ph2	10(7) and 10(7)
Typical Sections	2A - 2B(2)
Drainage Descriptions	2K - 2K(1)
Prop. R/W & Boundary Info.	7(1)
Profile Route 638	7A

Rinker Design Assoc., P.C. Fredericksburg, Virginia (Hydraulics)	Rinker Design Assoc., P.C. Fredericksburg, Virginia (Roadway)	VDOT PROJECT NO. 0638-076-209 PWDDOT PROJECT NO. SPR2018-00271	SHEET NO. 7
--	---	---	----------------

THESE PLANS ARE UNFINISHED AND UNAPPROVED AND ARE NOT TO BE USED FOR ANY TYPE OF CONSTRUCTION.

R/W PHASE PLANS

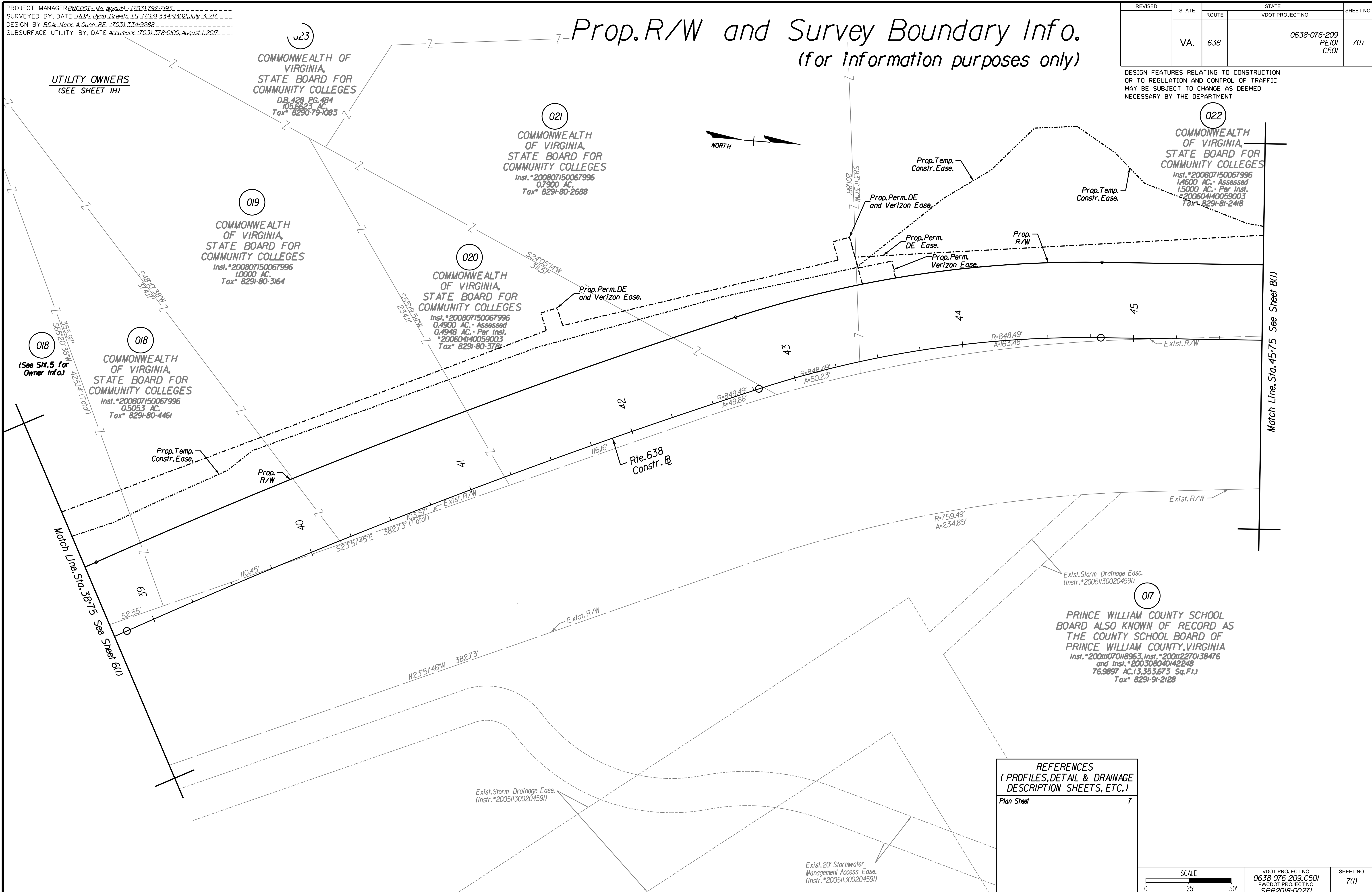
PROJECT MANAGER: WCDOT - Ms. Aggrey - (703) 792-7193
SURVEYED BY, DATE: RDA: Bryan Dreel / 10/31/2018
DESIGN BY: RDA: Mack & Gunn, PE (703) 334-9288
SUBSURFACE UTILITY BY, DATE: Accurmark (703) 378-0100, August 1, 2017

Prop. R/W and Survey Boundary Info. (for information purposes only)

REVISED	STATE	ROUTE	STATE	VDOT PROJECT NO.	SHEET NO.
	VA.	638		0638-076-209 PE/01 C501	7(1)

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

CDARinker
 Design Associates, P.C.
 Civil Engineering, Surveying, Land Planning, Transportation, Environmental, Right of Way Services
 10000 Old Dominion Blvd., Suite 200, Fairfax, VA 22031
 Phone: (703) 575-1100
 Fax: (703) 575-1101
 www.cdarinker.com

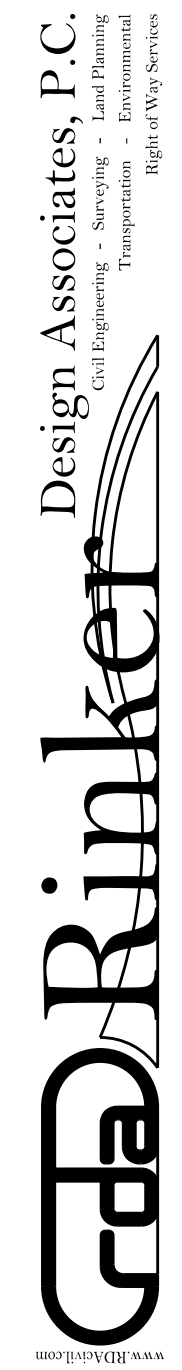


REFERENCES (PROFILES, DETAIL & DRAINAGE DESCRIPTION SHEETS, ETC.)	
Plan Sheet	7

SCALE		VDOT PROJECT NO.	SHEET NO.
0 25' 50'		0638-076-209, C501 PWVDOT PROJECT NO. SPR2018-00271	7(1)

THESE PLANS ARE UNFINISHED AND UNAPPROVED AND ARE NOT TO BE USED FOR ANY TYPE OF CONSTRUCTION.

R/W PHASE PLANS



Office Locations

10000 Old Dominion Drive
Suite 2000
Richmond, VA 23234
Phone: (804) 771-1111
Fax: (804) 771-1112

10000 Old Dominion Drive
Suite 2000
Richmond, VA 23234
Phone: (804) 771-1111
Fax: (804) 771-1112

10000 Old Dominion Drive
Suite 2000
Richmond, VA 23234
Phone: (804) 771-1111
Fax: (804) 771-1112

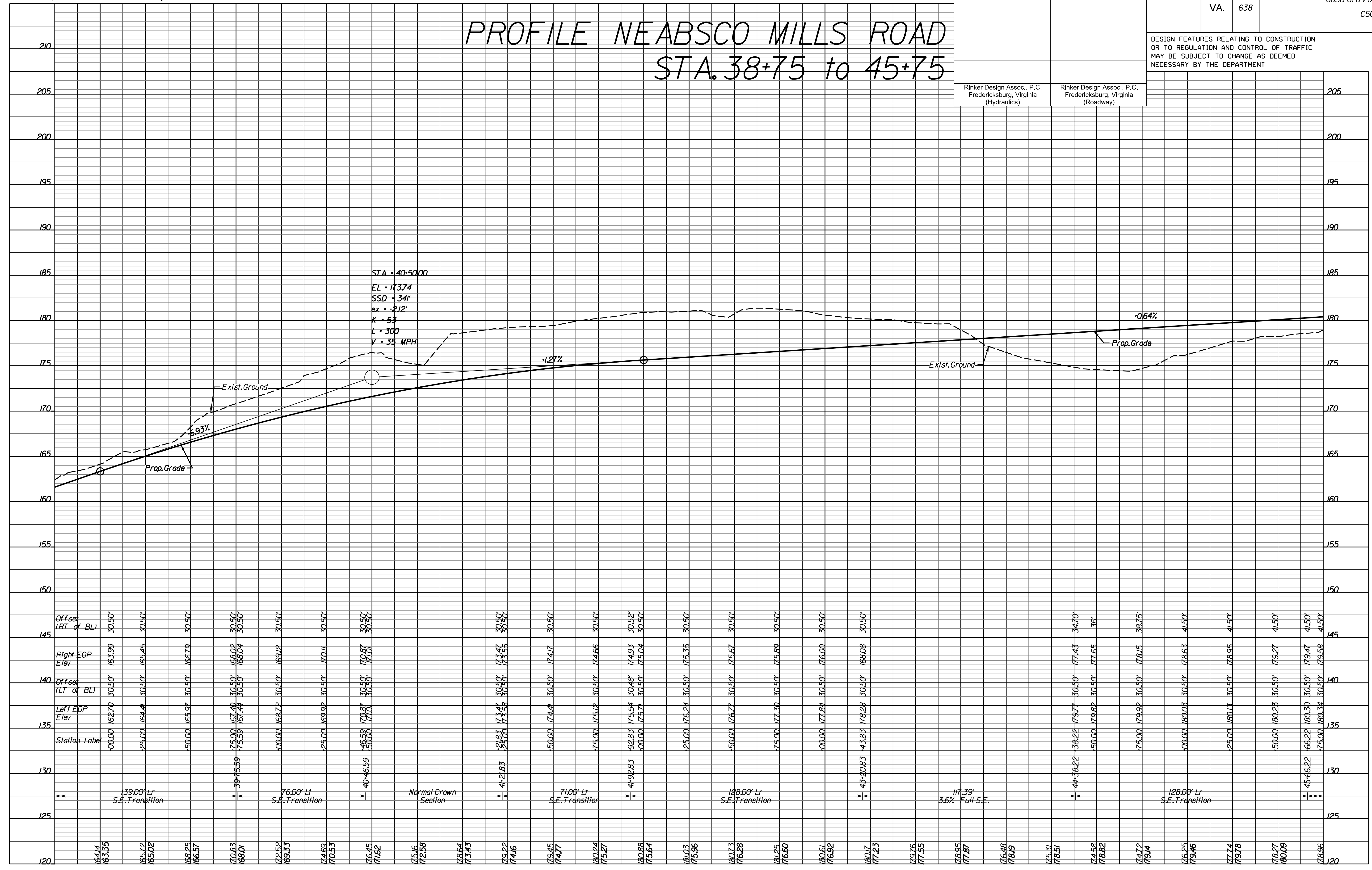
PROJECT MANAGER PWCDOT: Khattab, Shamout, PE - (703) 792-7193
SURVEYED BY, DATE RDA: Ryan, Debelin, LS - (703) 334-9302, July 3, 2017
DESIGN BY RDA: Mark A. Guora, PE - (703) 334-9288
SUBSURFACE UTILITY BY, DATE Accumark (703) 378-0100, August 1, 2017

REVISED	STATE	ROUTE	STATE PROJECT	SHEET NO
	VA.	638	0638-076-209 C501	

PROFILE NEABSCO MILLS ROAD STA. 38+75 to 45+75

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 (Hydraulics)	Rinker Design Assoc., P.C. Fredericksburg, Virginia (Roadway)
--	---



SCALE HORIZ: 1"=25'
VERT: 1"=5'

VDOT PROJECT NO. 0638-076-209
PWCDOT PROJECT NO. SPR2018-00271

SHEET NO. 7A

THESE PLANS ARE UNFINISHED AND UNAPPROVED AND ARE NOT TO BE USED FOR ANY TYPE OF CONSTRUCTION. R.W. PHASE PLANS

PROJECT MANAGER: EWCDOT - Khattab, Shamout, P.E. (703) 792-7193
SURVEYED BY, DATE: RDA: Bryan Drea'la, L.S. (703) 334-9302, July 3, 2017
DESIGN BY: RDA: Mack & Gunn, P.E. (703) 334-9288
SUBSURFACE UTILITY BY, DATE: Accurmark (703) 378-0100, August 1, 2017

- POI Neabsco Mills Rd., Sta. 49+90.21
- POI Freedom HS Entr., Sta. 10+00.00
Delta = 87°34'08.13"
- POI Neabsco Mills Rd., Sta. 49+92.21
- POI College Dr. N. Entr., Sta. 10+00.00
Delta = 90°00'00"

C --- Denotes Construction Limits In Cuts
E --- Denotes Construction Limits In Fills
Note: Dot-dot-dashed lines denote Temporary Easements
Note: Dot-dashed lines denote Permanent Easements

Drainage Design Legend

- Denotes Pipe to be Removed
- Denotes UD-2 Req'd.
- Denotes UD-3 Req'd.
- Denotes UD-4 Req'd.
- Denotes CD-1 Req'd.
- Denotes CD-2 Req'd.
- Denotes Pipe Plugged & Abandoned

Contractor not to Disturb Exist. Sign

022
COMMONWEALTH OF VIRGINIA
STATE BOARD FOR COMMUNITY COLLEGES
Inst. #200807150067996
1,4600 AC. - Assessed
1,5000 AC. - Per Inst.
#200604140059003
Tax# 8291-81-2418

023
COMMONWEALTH OF VIRGINIA
STATE BOARD FOR COMMUNITY COLLEGES
DB 428 PG. 484
105,662.3 AC
Tax# 8290-79-1083

023
COMMONWEALTH OF VIRGINIA
STATE BOARD FOR COMMUNITY COLLEGES
DB 428 PG. 484
105,662.3 AC
Tax# 8290-79-1083

017
PRINCE WILLIAM COUNTY SCHOOL BOARD ALSO KNOWN OF RECORD AS THE COUNTY SCHOOL BOARD OF PRINCE WILLIAM COUNTY, VIRGINIA
Inst. #20011070118963, Inst. #200112270138476 and Inst. #200308040142248
76,9897 AC. (3,353,673 Sq. Ft.)
Tax# 8291-91-2128

017
PRINCE WILLIAM COUNTY SCHOOL BOARD ALSO KNOWN OF RECORD AS THE COUNTY SCHOOL BOARD OF PRINCE WILLIAM COUNTY, VIRGINIA
Inst. #20011070118963, Inst. #200112270138476 and Inst. #200308040142248
76,9897 AC. (3,353,673 Sq. Ft.)
Tax# 8291-91-2128

Roadway Design Legend

- Denotes 5' Sidewalk
- Denotes 10' Shared Use Path
- Denotes S'd. MS-1 Req'd.
- Denotes S'd. MS-2 Req'd.
- Denotes S'd. CG-6 Req'd.
- Denotes S'd. Radial CG-6 Req'd.
- Denotes S'd. Radial CG-2 Req'd.
- Denotes Tie to Existing Curb & Gutter
- Denotes Full Depth Saw Cut Req'd.

UTILITY OWNERS (SEE SHEET 1H)

Design Pattern Legend

- Denotes Limits of Full Depth Pave.
- Denotes Limits of Mill and Overlay
- Denotes Limits of Demo of Pave.
- Denotes Limits of Concrete

REFERENCES (PROFILES, DETAIL & DRAINAGE DESCRIPTION SHEETS, ETC.)

Survey Control Data Sheet	IF and IF(1)
Construction Geometrics	16 - 10(2)
Erosion Controls Ph1 & Ph2	10(B) - 1R(B)
Typical Sections	2A - 2B(2)
Drainage Descriptions	2K - 2K(1)
Prop. R/W & Boundary Info.	8A
Profile Route 638	8A
Profile Entr. and Conn.	8B

SCALE 0 25' 50'

VDOT PROJECT NO. 0638-076-209
PWCDOT PROJECT NO. SPR2018-00271
SHEET NO. 8

THESE PLANS ARE UNFINISHED AND UNAPPROVED AND ARE NOT TO BE USED FOR ANY TYPE OF CONSTRUCTION.

R/W PHASE PLANS

Design Associates, P.C.
Civil Engineering, Surveying, Land Planning, Transportation, Environmental, Construction Management, Right of Way Services

PROJECT MANAGER: PWCDOT - Ma. Apprabi - (703) 792-7193
SURVEYED BY, DATE: RDA: Bryan Dreel/LS (703) 334-9302, July 3, 2017
DESIGN BY: RDA: Mack & Gunn, PE (703) 334-9288
SUBSURFACE UTILITY BY, DATE: Accurmark (703) 378-0100, August 1, 2017

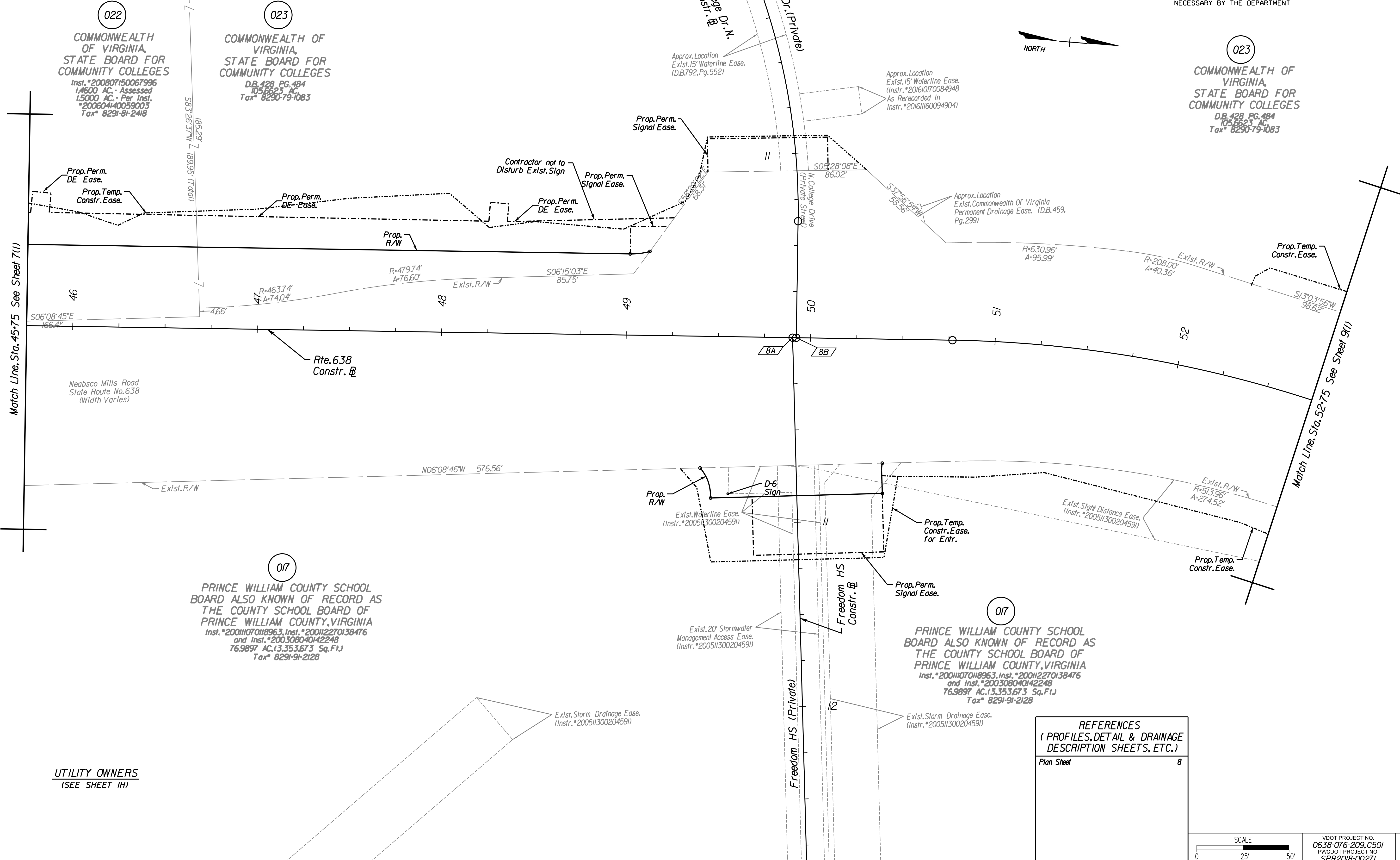
- POI Neabsco Mills Rd., Sta. 49+90.21
- BA / POI Freedom HS Entr., Sta. 10+00.00
Delta = 87°34'08.13"
- POI Neabsco Mills Rd., Sta. 49+92.21
- BB / POI College Dr. N. Entr., Sta. 10+00.00
Delta = 90°00'00"

Prop. R/W and Survey Boundary Info. (for information purposes only)

REVISED	STATE	ROUTE	STATE	VDOT PROJECT NO.	SHEET NO.
	VA.	638		0638-076-209 PE/01 C501	8(1)

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

CdA Rinker Design Associates, P.C.
Civil Engineering, Surveying, Land Planning, Transportation, Environmental, Construction Management, Right of Way Services



022
COMMONWEALTH OF VIRGINIA,
STATE BOARD FOR
COMMUNITY COLLEGES
Inst. #200807150067996
1,4600 AC. - Assessed
1,5000 AC. - Per Inst.
#200604140059003
Tax# 8291-81-2418

023
COMMONWEALTH OF VIRGINIA,
STATE BOARD FOR
COMMUNITY COLLEGES
DB 428 PG. 484
105,663 AC.
Tax# 8290-79-1083

023
COMMONWEALTH OF VIRGINIA,
STATE BOARD FOR
COMMUNITY COLLEGES
DB 428 PG. 484
105,663 AC.
Tax# 8290-79-1083

017
PRINCE WILLIAM COUNTY SCHOOL
BOARD ALSO KNOWN OF RECORD AS
THE COUNTY SCHOOL BOARD OF
PRINCE WILLIAM COUNTY, VIRGINIA
Inst. #20011070118963, Inst. #200112270138476
and Inst. #200308040142248
76,9897 AC. (3,353,673 Sq. Ft.)
Tax# 8291-91-2128

017
PRINCE WILLIAM COUNTY SCHOOL
BOARD ALSO KNOWN OF RECORD AS
THE COUNTY SCHOOL BOARD OF
PRINCE WILLIAM COUNTY, VIRGINIA
Inst. #20011070118963, Inst. #200112270138476
and Inst. #200308040142248
76,9897 AC. (3,353,673 Sq. Ft.)
Tax# 8291-91-2128

UTILITY OWNERS
(SEE SHEET 1H)

REFERENCES
(PROFILES, DETAIL & DRAINAGE
DESCRIPTION SHEETS, ETC.)

Plan Sheet 8

SCALE 0 25' 50'	VDOT PROJECT NO. 0638-076-209, C501 PWCDOT PROJECT NO. SPR2018-00271	SHEET NO. 8(1)
--------------------	---	-------------------

THESE PLANS ARE UNFINISHED AND UNAPPROVED AND ARE NOT TO BE USED FOR ANY TYPE OF CONSTRUCTION.

R/W PHASE PLANS

Office Locations
Rinker Design Associates, P.C.
10000 Woodbridge Road
Fredericksburg, VA 22409
Phone: (540) 371-1111
Fax: (540) 371-1112

Rinker Design Associates, P.C.
Civil Engineering
Transportation - Environmental
Right-of-Way Services

PROJECT MANAGER: PWCDOT: Khattab, Shamout, PE - (703) 792-7193
SURVEYED BY, DATE: RDA: Ryan, DcealIn, LS. (703) 334-9302, July 3, 2017
DESIGN BY: RDA: Mark A. Guoa, PE - (703) 334-9288
SUBSURFACE UTILITY BY, DATE: Accumark (703) 378-0100, August 1, 2017

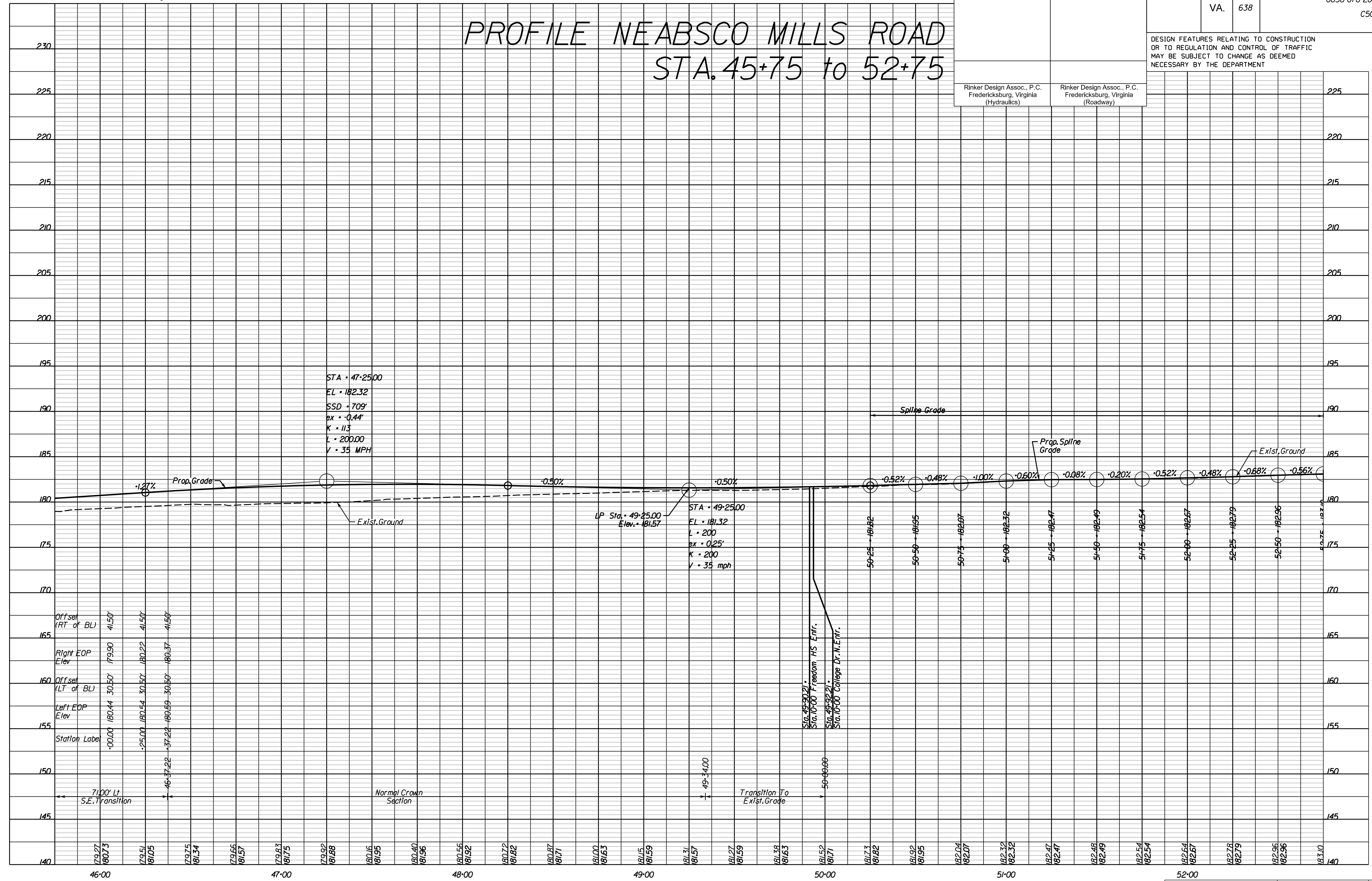
REVISED	STATE	ROUTE	STATE PROJECT	SHEET NO.
	VA.	638	0638-076-209 C501	8A

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
(Hydraulics)

Rinker Design Assoc., P.C.
Fredericksburg, Virginia
(Roadway)

PROFILE NEABSCO MILLS ROAD STA. 45+75 to 52+75



SCALE: HORIZ: 1"=25', VERT: 1"=5'

VDOT PROJECT NO. 0638-076-209
PWCDOT PROJECT NO. SPR2018-00271

SHEET NO. 8A

THESE PLANS ARE UNFINISHED AND UNAPPROVED AND ARE NOT TO BE USED FOR ANY TYPE OF CONSTRUCTION. R.W. PHASE PLANS

Office Locations
Rinker Design Associates, P.C.
10000 Lee Blvd
Fredericksburg, VA 22409
Phone: (540) 371-1100
Fax: (540) 371-1101

Rinker Design Associates, P.C.
Civil Engineers
Transportation - Environmental
Right of Way Services
www.rinker.com

PROJECT MANAGER PWCDOT: Khattab, Shammout, PE - (703) 792-7193
SURVEYED BY, DATE: RDA: Ryan, Debelin, LS - (703) 334-9302, July 3, 2017
DESIGN BY: RDA: Mark A. Guoa, PE - (703) 334-9288
SUBSURFACE UTILITY BY, DATE: Accumark (703) 378-0100, August 1, 2017

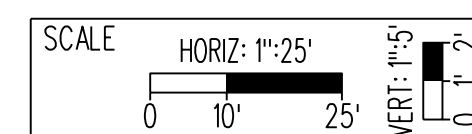
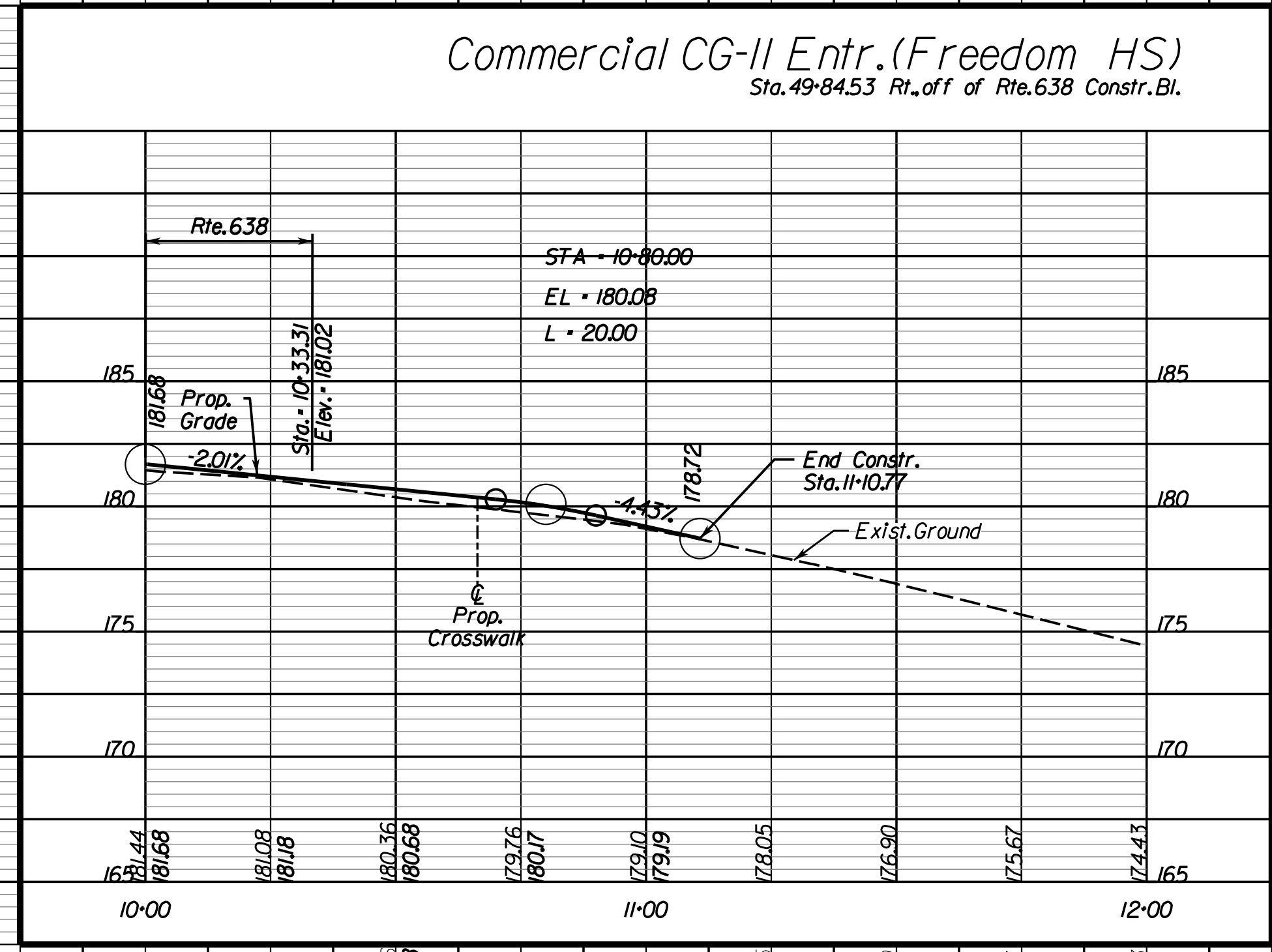
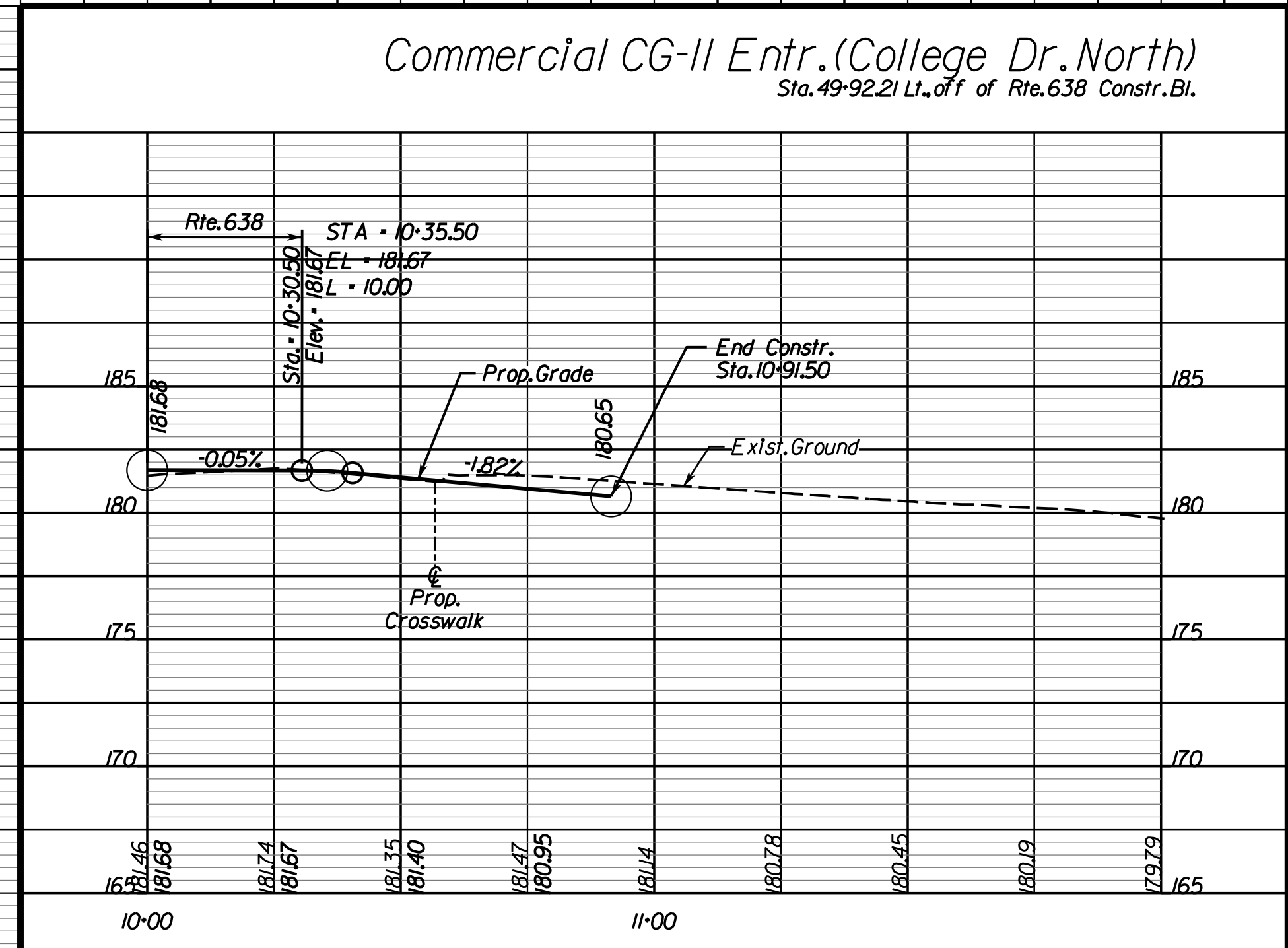
REVISED	STATE	ROUTE	STATE	PROJECT	SHEET NO.
	VA.	638		0638-076-209 C501	8B

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
(Hydraulics)

Rinker Design Assoc., P.C.
Fredericksburg, Virginia
(Roadway)

ENTRANCE PROFILES



VDOT PROJECT NO. 0638-076-209
PWCDOT PROJECT NO. SPR2018-00271

SHEET NO. 8B

THESE PLANS ARE UNFINISHED AND UNAPPROVED AND ARE NOT TO BE USED FOR ANY TYPE OF CONSTRUCTION.

R.W. PHASE PLANS

PROJECT MANAGER: EWCDOT - Khattab, Shammout, P.E. : (703) 792-7193
SURVEYED BY, DATE: RDA: Bryan Dreelin, LS (703) 334-9302, July 3, 2017
DESIGN BY: RDA: Mack, Gunn, P.E. (703) 334-9288
SUBSURFACE UTILITY BY, DATE: Accurark (703) 378-0100, August 1, 2017

NEABSCO FLATS 2, LLC UNIT 4, PHASE 4
NEABSCO COMMON,
A CONDOMINIUM

Inst. # 2013114011205
4.83 AC
Tax# 8291-12-9847.00

ALBERT J. WILLIAMS
D.B. 304 PG. 549, D.B. 1614 PG. 138
AND Inst. # 200809160088621
1.0001 AC
Tax# 8291-82-2414

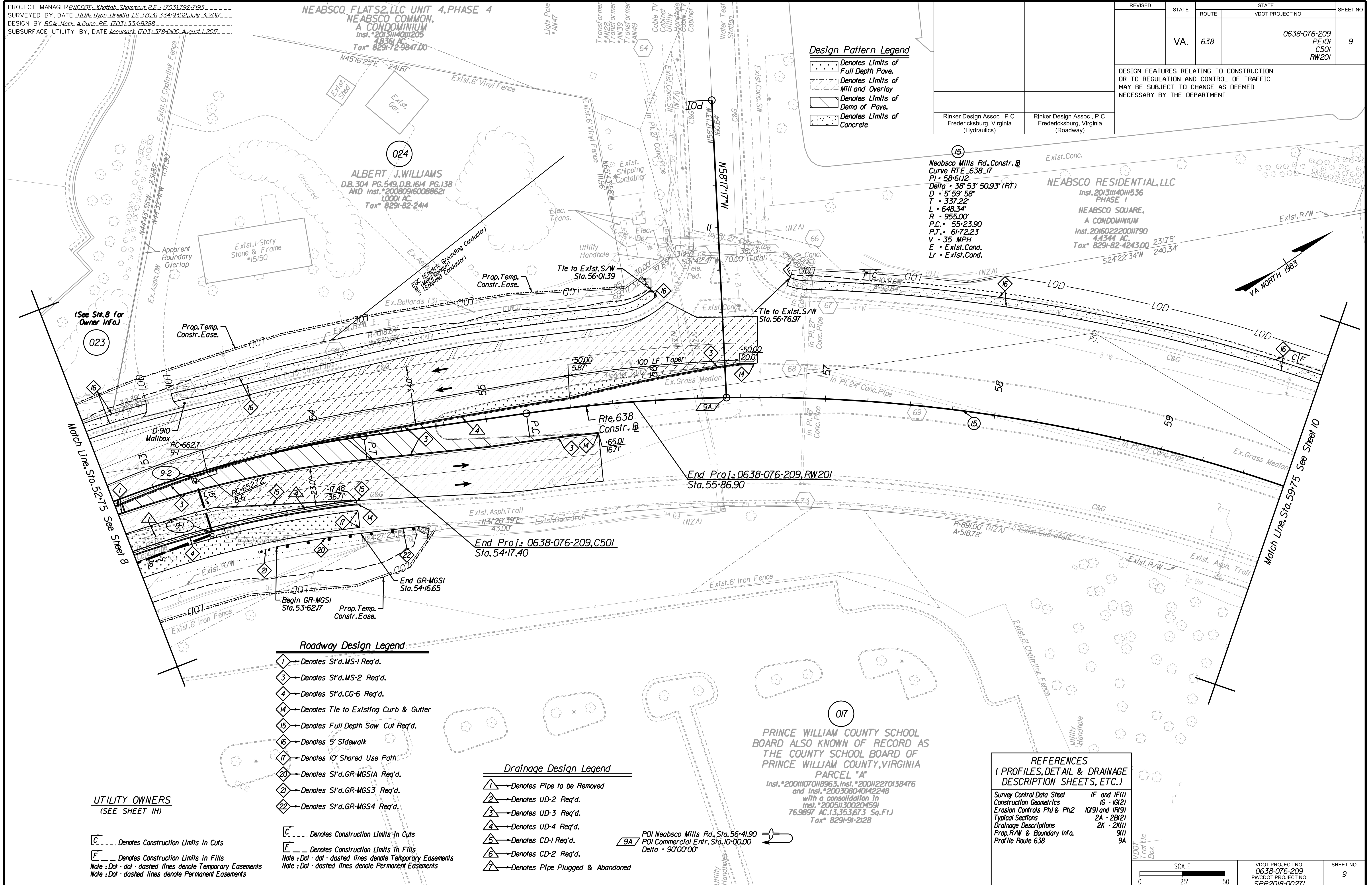
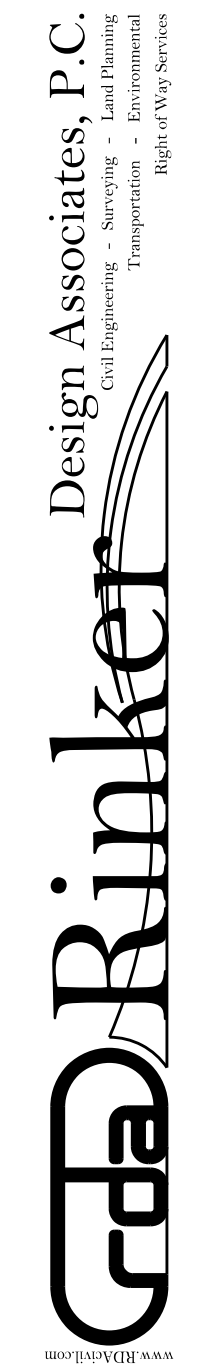
NEABSCO RESIDENTIAL, LLC
Inst. 2013114011536
PHASE 1
NEABSCO SQUARE,
A CONDOMINIUM
Inst. 201602220011790
4.4344 AC
Tax# 8291-82-4243.00

Neabscos Mills Rd. Constr. @
Curve RTE 638.17
PI = 58+61.2
Delta = 38° 53' 50.93" (RT)
D = 5' 59' 58"
T = 337.22'
L = 648.34'
R = 955.00'
P.C. = 55+23.90
P.T. = 61+72.23
V = 35 MPH
E = Exst. Cond.
Lr = Exst. Cond.

Design Pattern Legend

- Denotes Limits of Full Depth Pave.
- Denotes Limits of Mill and Overlay
- Denotes Limits of Demo of Pave.
- Denotes Limits of Concrete

REVISED	STATE	ROUTE	STATE	VDOT PROJECT NO.	SHEET NO.
	VA.	638		0638-076-209 PE101 CS01 RW201	9
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 (Hydraulics)			Rinker Design Assoc., P.C. Fredericksburg, Virginia (Roadway)		



Roadway Design Legend

- 1 - Denotes S1'd.MS-1 Req'd.
- 3 - Denotes S1'd.MS-2 Req'd.
- 4 - Denotes S1'd.CG-6 Req'd.
- 14 - Denotes Tie to Existing Curb & Gutter
- 15 - Denotes Full Depth Saw Cut Req'd.
- 16 - Denotes 5' Sidewalk
- 17 - Denotes 10' Shared Use Path
- 20 - Denotes S1'd.GR-MGS1A Req'd.
- 21 - Denotes S1'd.GR-MGS3 Req'd.
- 22 - Denotes S1'd.GR-MGS4 Req'd.

Drainage Design Legend

- 1 - Denotes Pipe to be Removed
- 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 Plugged & Abandoned

UTILITY OWNERS
(SEE SHEET 1H)

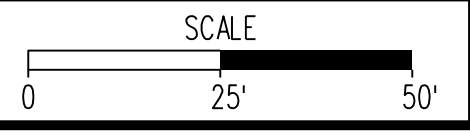
- C - Denotes Construction Limits In Cuts
- E - Denotes Construction Limits In Fills
- Note : Dot - dot - dashed lines denote Temporary Easements
- Note : Dot - dashed lines denote Permanent Easements

- C - Denotes Construction Limits In Cuts
- E - Denotes Construction Limits In Fills
- Note : Dot - dot - dashed lines denote Temporary Easements
- Note : Dot - dashed lines denote Permanent Easements

PRINCE WILLIAM COUNTY SCHOOL BOARD ALSO KNOWN OF RECORD AS THE COUNTY SCHOOL BOARD OF PRINCE WILLIAM COUNTY, VIRGINIA
PARCEL "A"
Inst. # 20011070118963, Inst. # 20012270138476 and Inst. # 200308040142248 with a consolidation in Inst. # 200511300204591 76,9897 AC, 13,353,673 Sq.Ft. Tax# 8291-91-2128

REFERENCES
(PROFILES, DETAIL & DRAINAGE DESCRIPTION SHEETS, ETC.)

Survey Control Data Sheet	IF and IF(1)
Construction Geometrics	16 - 10(2)
Erosion Controls Ph1 & Ph2	10(9) and 11(9)
Typical Sections	2A - 2B(2)
Drainage Descriptions	2K - 2X(1)
Prop. R/W & Boundary Info.	9(1)
Profile Route 638	9A



VDOT PROJECT NO. 0638-076-209 PWCDOT PROJECT NO. SPR2018-00271	SHEET NO. 9
---	----------------

THESE PLANS ARE UNFINISHED AND UNAPPROVED AND ARE NOT TO BE USED FOR ANY TYPE OF CONSTRUCTION.

R/W PHASE PLANS

PROJECT MANAGER: EWCDOT - Ma. Ayoubi - (703) 792-7193
SURVEYED BY, DATE: RDA: Bryan Dreel / LS (703) 334-9302, July 3, 2017
DESIGN BY: RDA: Mack & Gunn, PE (703) 334-9288
SUBSURFACE UTILITY BY, DATE: Accumark (703) 378-0100, August 1, 2017

NEABSCO FLATS 2, LLC UNIT 4, PHASE 4
NEABSCO COMMON
A CONDOMINIUM
Inst. # 2013114011205
4.836 AC
Tax# 8291-72-9847.00

Prop. R/W and Survey Boundary Info. (for information purposes only)

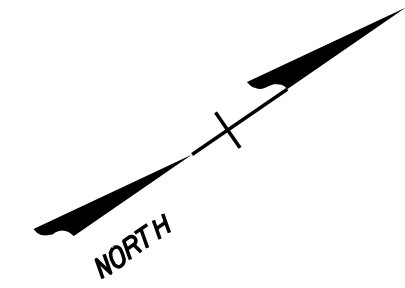
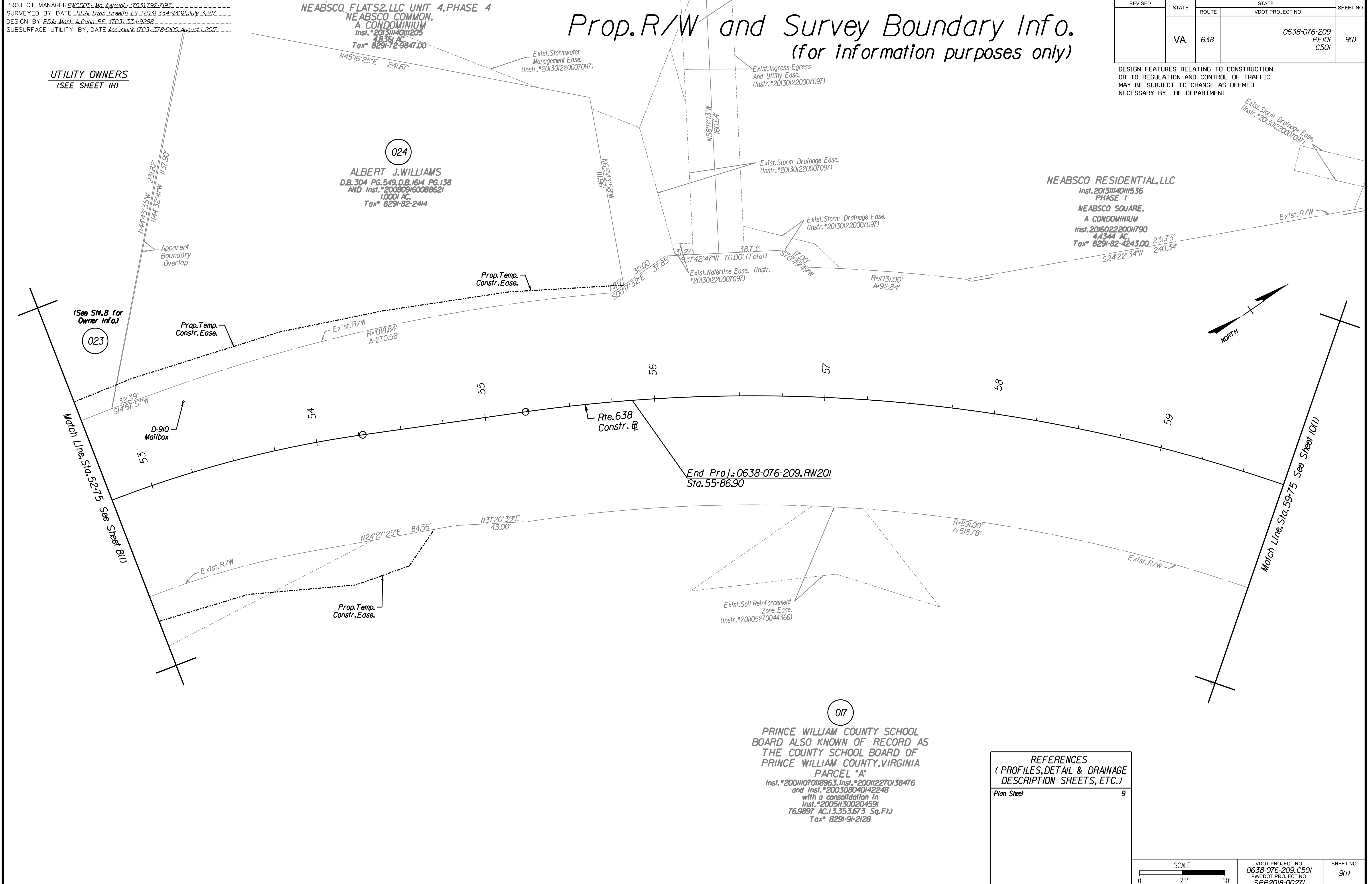
REVISED	STATE		STATE		SHEET NO.
	ROUTE	VDOT PROJECT NO.	VDOT PROJECT NO.	SHEET NO.	
	VA.	638	0638-076-209 PE/01 C501	9(1)	

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
(SEE SHEET 1H)

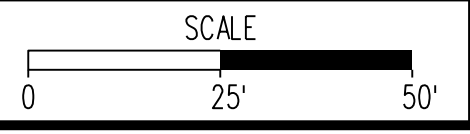
024
ALBERT J. WILLIAMS
D.B. 304 PG. 549, D.B. 1614 PG. 138
AND Inst. # 200809160088621
1.0001 AC.
Tax# 8291-82-2414

NEABSCO RESIDENTIAL, LLC
Inst. 2013114011536
PHASE 1
NEABSCO SQUARE,
A CONDOMINIUM
Inst. 201602220011790
4.4344 AC.
Tax# 8291-82-4243.00



017
PRINCE WILLIAM COUNTY SCHOOL BOARD ALSO KNOWN OF RECORD AS THE COUNTY SCHOOL BOARD OF PRINCE WILLIAM COUNTY, VIRGINIA
PARCEL "A"
Inst. # 20011070118963, Inst. # 200112270138476
and Inst. # 200308040142248
with a consolidation in
Inst. # 200511300204591
76.9897 AC. (3,353,673 Sq. Ft.)
Tax# 8291-91-2128

REFERENCES (PROFILES, DETAIL & DRAINAGE DESCRIPTION SHEETS, ETC.)	
Plan Sheet	9



VDOT PROJECT NO.	SHEET NO.
0638-076-209, C501 SPR2018-00271	9(1)

THESE PLANS ARE UNFINISHED AND UNAPPROVED AND ARE NOT TO BE USED FOR ANY TYPE OF CONSTRUCTION.

R/W PHASE PLANS

Online Locations
CadaRinker
Design Associates, P.C.
Civil Engineering, Surveying, Land Planning, Transportation, Environmental, Right-of-Way Services

Office Locations
Rinker Design Associates, P.C.
10000 Woodloch Forest Drive
Fredericksburg, VA 22409
Phone: (541) 325-1100
Fax: (541) 325-1101

Rinker Design Associates, P.C.
Civil Engineers
Transportation - Environmental
Right-of-Way Services

www.rinker.com

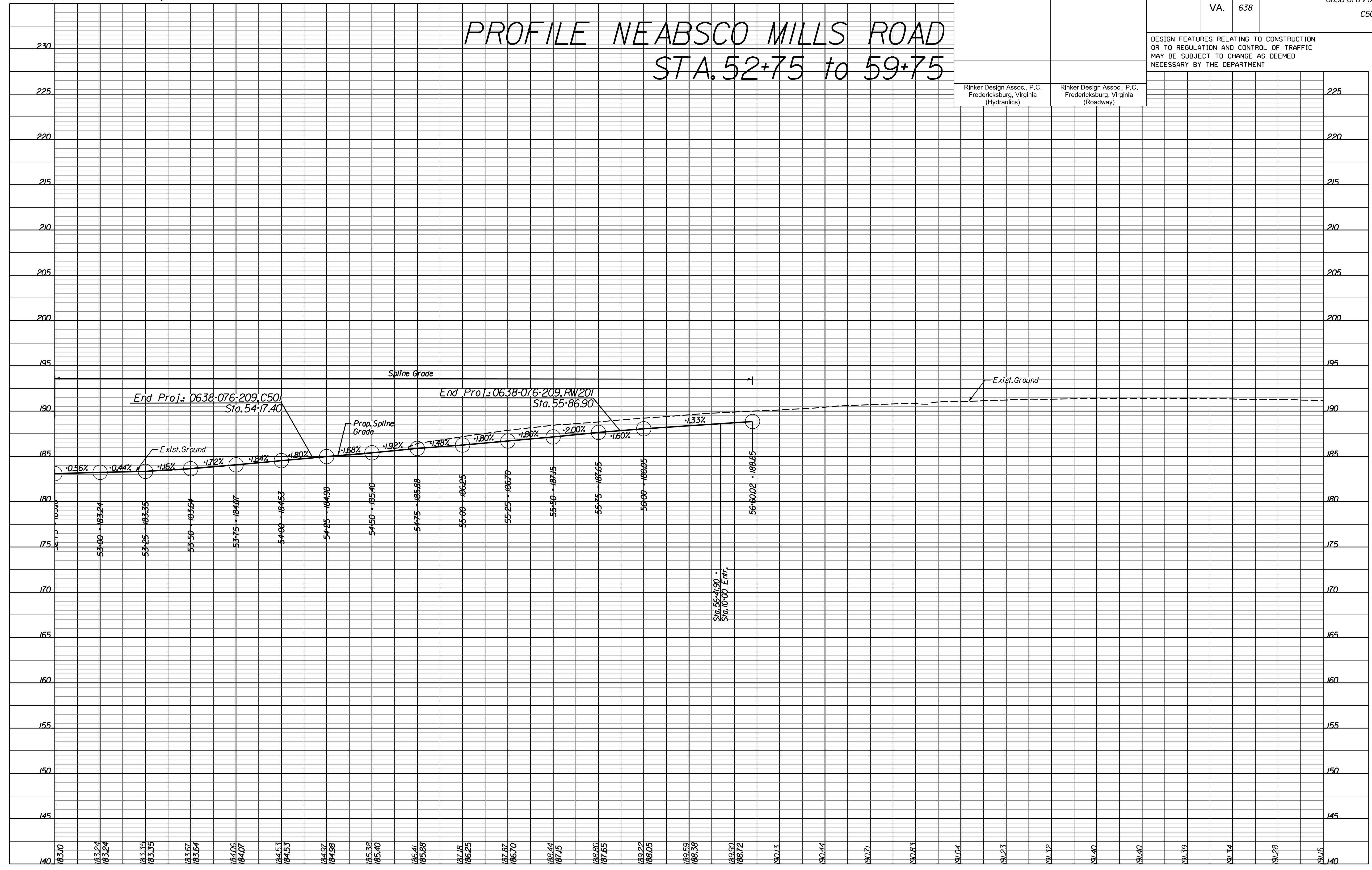
PROJECT MANAGER PWCDOT: Khattab, Shamout, PE - (703) 792-7193
SURVEYED BY, DATE RDA: Ryan, Dceblin, LS - (703) 334-9302, July 3, 2017
DESIGN BY RDA: Mark A. Guoa, PE - (703) 334-9288
SUBSURFACE UTILITY BY, DATE Accurmark (703) 378-0100, August 1, 2017

REVISED	STATE	ROUTE	STATE PROJECT	SHEET NO
	VA.	638	0638-076-209 C501	9A

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 (Hydraulics)	Rinker Design Assoc., P.C. Fredericksburg, Virginia (Roadway)
--	---

PROFILE NEABSCO MILLS ROAD STA. 52+75 to 59+75



SCALE: HORIZ: 1"=25' VERT: 1"=5'

VDOT PROJECT NO. 0638-076-209
PWCDOT PROJECT NO. SPR2018-00271

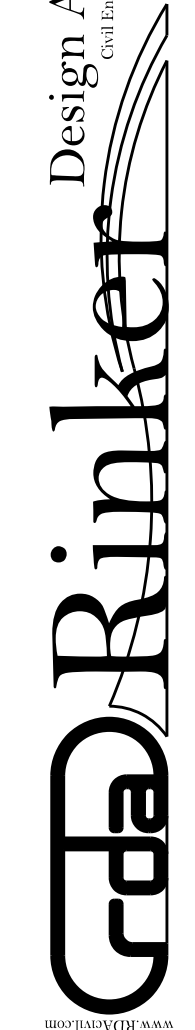
SHEET NO. 9A

THESE PLANS ARE UNFINISHED AND UNAPPROVED AND ARE NOT TO BE USED FOR ANY TYPE OF CONSTRUCTION.

R.W. PHASE PLANS

PROJECT MANAGER: EWCDOT - Khattab, Shammout, P.E. : (703) 792-7193
SURVEYED BY, DATE: RDA: Bryan Dreel, L.S. (703) 334-9302, July 3, 2017
DESIGN BY: RDA: Mack, A. Gunn, P.E. (703) 334-9288
SUBSURFACE UTILITY BY, DATE: Accumark (703) 378-0100, August 1, 2017

Design Associates, P.C.
Civil Engineering, Surveying, Land Planning, Transportation, Environmental, Right of Way Services



REVISED	STATE	ROUTE	STATE	VDOT PROJECT NO.	SHEET NO.
	VA.	638		0638-076-209 PE101 CS01 RW201	

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
(Hydraulics)

Rinker Design Assoc., P.C.
Fredericksburg, Virginia
(Roadway)

POI Neabsco Mills Rd., Sta. 61+78.27
POI Smoke Ct., Sta. 10+00.00
Delta = 90°00'00"

Denotes Construction Limits in Cuts

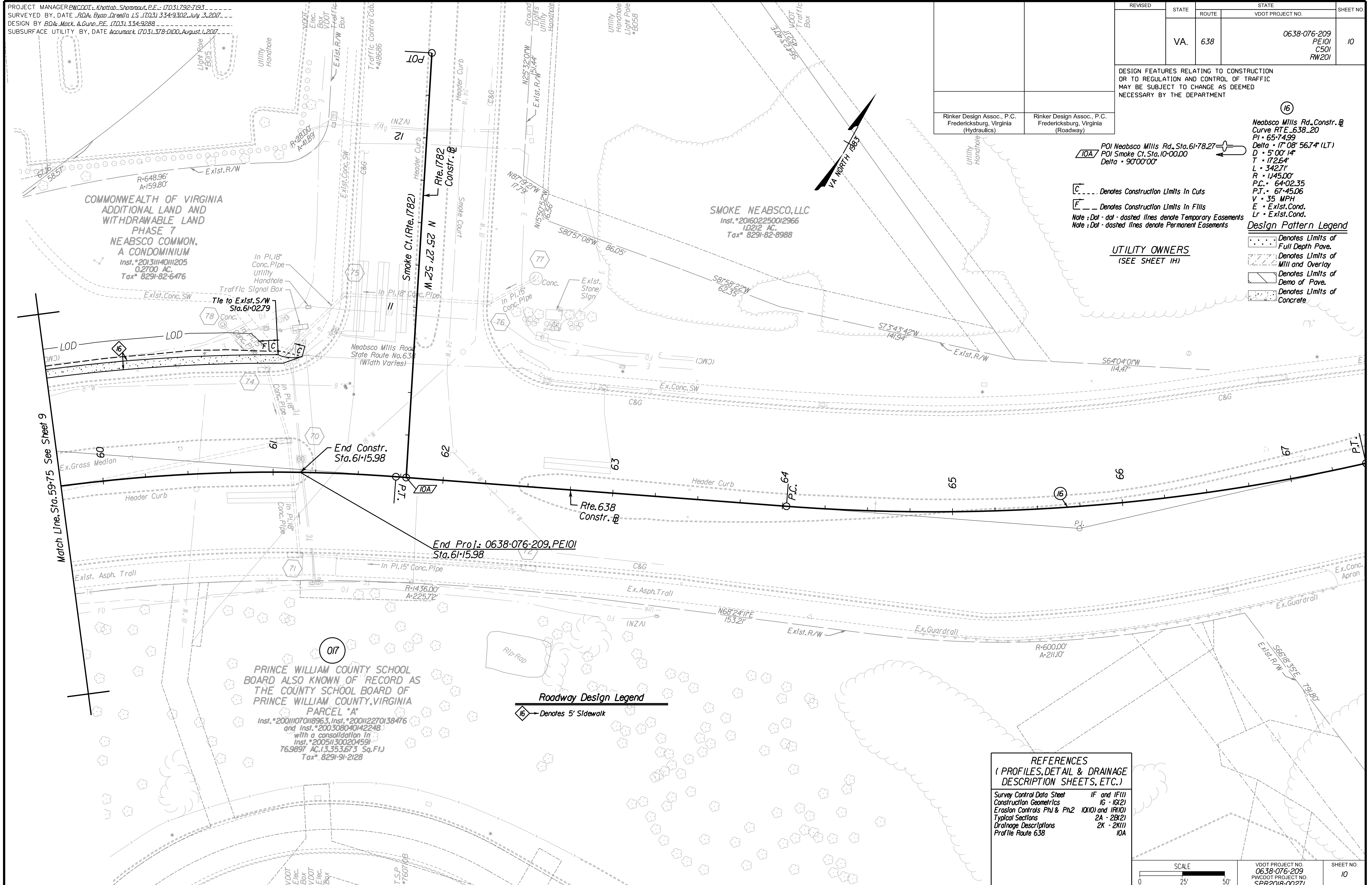
Denotes Construction Limits in Fills

Note: Dot-dot-dashed lines denote Temporary Easements
Note: Dot-dashed lines denote Permanent Easements

Design Pattern Legend

- Denotes Limits of Full Depth Pave.
- Denotes Limits of Mill and Overlay
- Denotes Limits of Demo of Pave.
- Denotes Limits of Concrete

UTILITY OWNERS
(SEE SHEET 1H)



PRINCE WILLIAM COUNTY SCHOOL BOARD ALSO KNOWN OF RECORD AS THE COUNTY SCHOOL BOARD OF PRINCE WILLIAM COUNTY, VIRGINIA
PARCEL "A"
 Inst. *20011070118963, Inst. *200112270138476 and Inst. *200308040142248 with a consolidation in Inst. *200511300204591
 76.9897 AC, 13,353,673 Sq. Ft.
 Tax# 8291-91-2128

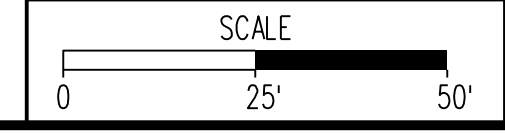
SMOKE NEABSCO, LLC
 Inst. *201602250012966
 1.0212 AC
 Tax# 8291-82-8988

COMMONWEALTH OF VIRGINIA
ADDITIONAL LAND AND WITHDRAWABLE LAND
PHASE 7
NEABSCO COMMON,
A CONDOMINIUM
 Inst. *20131114011205
 0.2700 AC
 Tax# 8291-82-6476

Roadway Design Legend
 16 Denotes 5' Sidewalk

REFERENCES
(PROFILES, DETAIL & DRAINAGE DESCRIPTION SHEETS, ETC.)

Survey Control Data Sheet	IF and IF(1)
Construction Geometrics	16 - 18(2)
Erosion Controls Ph1 & Ph2	10X10 and 18X10
Typical Sections	2A - 2B(2)
Drainage Descriptions	2K - 2K(1)
Profile Route 638	10A



VDOT PROJECT NO. 0638-076-209	SHEET NO. 10
PWCDOT PROJECT NO. SPR2018-00271	

THESE PLANS ARE UNFINISHED AND UNAPPROVED AND ARE NOT TO BE USED FOR ANY TYPE OF CONSTRUCTION.

R/W PHASE PLANS

PROJECT MANAGER PWCDOT: Khattab, Shammout, PE - (703) 792-7193
SURVEYED BY, DATE RDA: Ryan, Debelin, LS (703) 334-9302, July 3, 2017
DESIGN BY RDA: Mark A. Guoa, PE (703) 334-9288
SUBSURFACE UTILITY BY, DATE Accumark (703) 378-0100, August 1, 2017

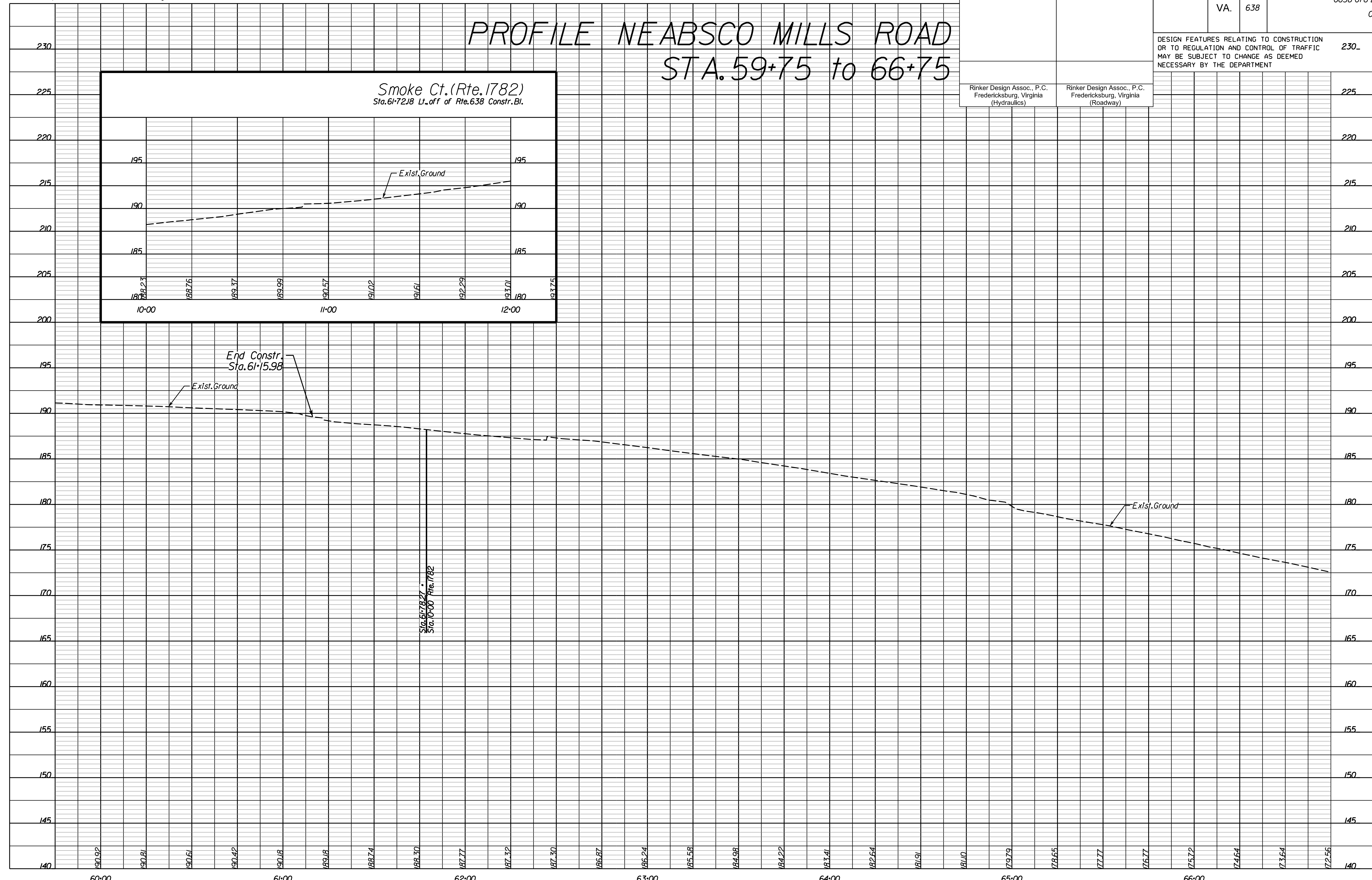
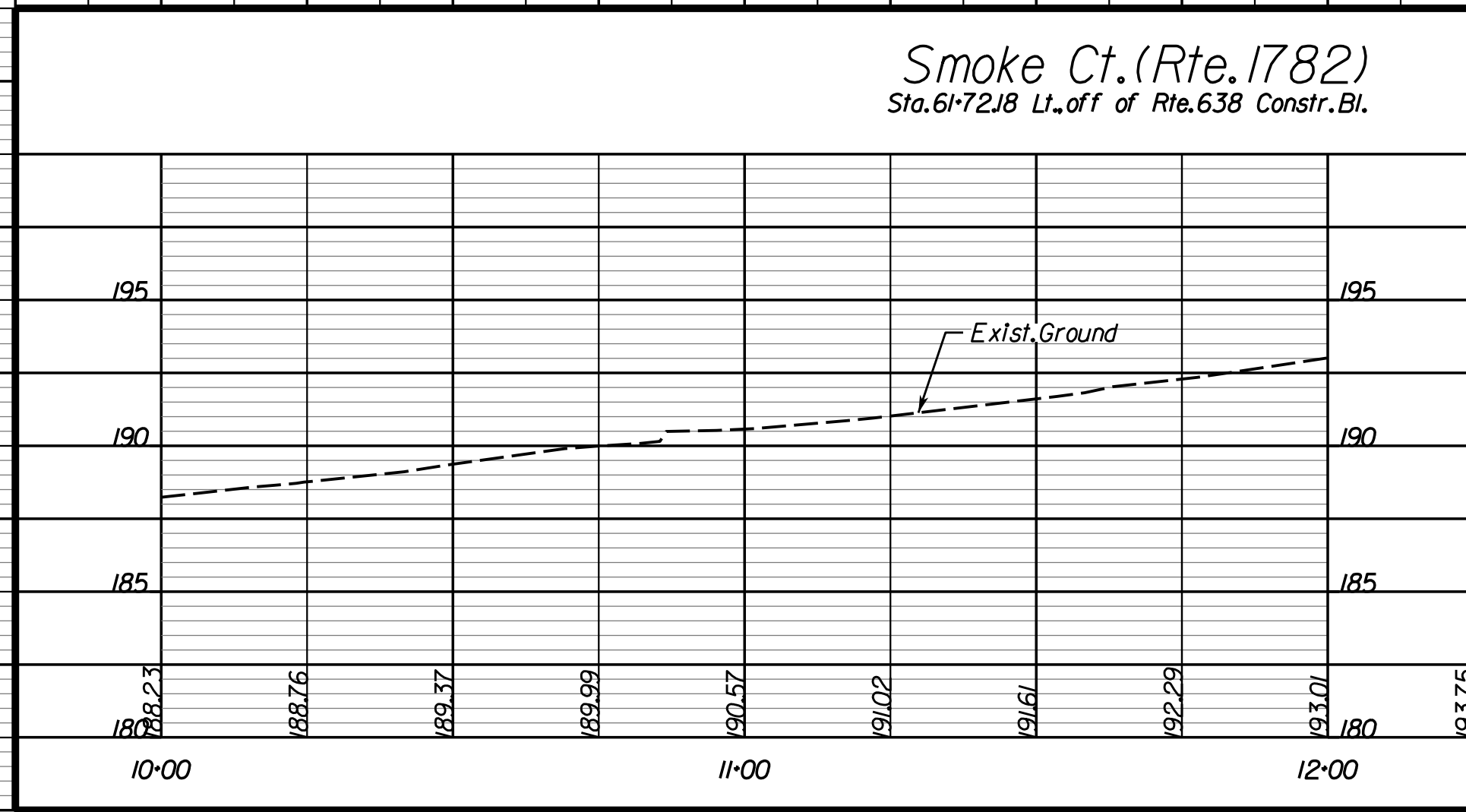
PROFILE NEABSCO MILLS ROAD STA. 59+75 to 66+75

REVISED	STATE	ROUTE	STATE PROJECT	SHEET NO
	VA.	638	0638-076-209 C501	10A

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
(Hydraulics)

Rinker Design Assoc., P.C.
Fredericksburg, Virginia
(Roadway)



SCALE	HORIZ: 1"=25'	VERT: 1"=5'	VDOT PROJECT NO. 0638-076-209 PWCDOT PROJECT NO. SPR2018-00271	SHEET NO. 10A
-------	---------------	-------------	---	---------------

THESE PLANS ARE UNFINISHED AND UNAPPROVED AND ARE NOT TO BE USED FOR ANY TYPE OF CONSTRUCTION.

R.W. PHASE PLANS



PROJECT MANAGER: EWCDOT - Khattab, Shammaul, P.E. (703) 292-7193
SURVEYED BY, DATE: RDA: Bryan Dreella, LS (703) 334-9302, July 3, 2017
DESIGN BY: RDA: Mack, A. Gunn, P.E. (703) 334-9288
SUBSURFACE UTILITY BY, DATE: Accurmark (703) 378-0100, August 1, 2017

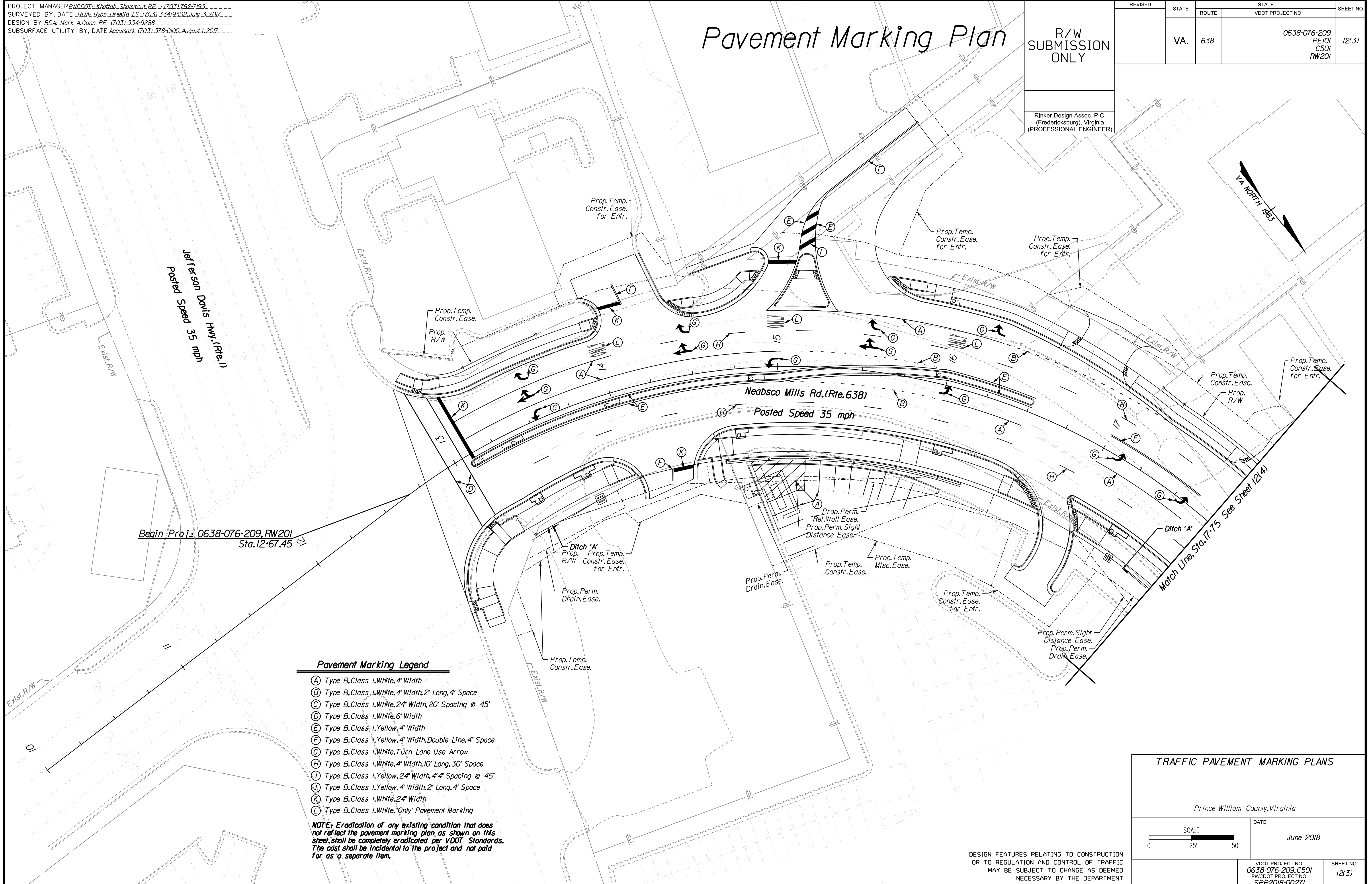
Pavement Marking Plan

R/W
SUBMISSION
ONLY

REVISED	STATE	ROUTE	STATE	VDOT PROJECT NO.	SHEET NO.
	VA.	638		0638-076-209 PE101 C501 RW201	12(3)

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

CDa Rinker
Design Associates, P.C.
Civil Engineering, Surveying, Land Planning,
Transportation, Environmental,
Right of Way Services



Begin Proj.: 0638-076-209, RW201
Sta. 12+67.45

Match Line, Sta. 17+75 See Sheet 12(A)

Pavement Marking Legend

- (A) Type B, Class I, White, 4" Width
- (B) Type B, Class I, White, 4" Width, 2' Long, 4' Space
- (C) Type B, Class I, White, 24" Width, 20' Spacing @ 45°
- (D) Type B, Class I, White, 6" Width
- (E) Type B, Class I, Yellow, 4" Width
- (F) Type B, Class I, Yellow, 4" Width, Double Line, 4' Space
- (G) Type B, Class I, White, Turn Lane Use Arrow
- (H) Type B, Class I, White, 4" Width, 10' Long, 30' Space
- (I) Type B, Class I, Yellow, 24" Width, 4' Spacing @ 45°
- (J) Type B, Class I, Yellow, 4" Width, 2' Long, 4' Space
- (K) Type B, Class I, White, 24" Width
- (L) Type B, Class I, White, "Only" Pavement Marking

NOTE: Eradication of any existing condition that does not reflect the pavement marking plan as shown on this sheet, shall be completely eradicated per VDOT Standards. The cost shall be incidental to the project and not paid for as a separate item.

TRAFFIC PAVEMENT MARKING PLANS

Prince William County, Virginia

SCALE: 0 25' 50'

DATE: June 2018

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

VDOT PROJECT NO. 0638-076-209, C501 PWCDOT PROJECT NO. SPR2018-00271	SHEET NO. 12(3)
---	--------------------

THESE PLANS ARE UNFINISHED AND UNAPPROVED AND ARE NOT TO BE USED FOR ANY TYPE OF CONSTRUCTION.

R.W. PHASE PLANS

PROJECT MANAGER: EWCDOT - Khattab, Shammout, P.E. (703) 292-7193
SURVEYED BY, DATE: RDA: Bryan Dreel, LS (703) 334-9302, July 3, 2017
DESIGN BY: RDA: Mack, A. Gunn, P.E. (703) 334-9288
SUBSURFACE UTILITY BY, DATE: AccuMark (703) 378-0100, August 1, 2017

Pavement Marking Plan

R/W
SUBMISSION
ONLY

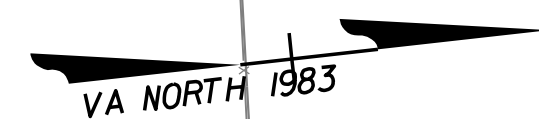
REVISED	STATE	ROUTE	STATE	VDOT PROJECT NO.	SHEET NO.
	VA.	638		0638-076-209 PE101 C501 RW201	12(4)

Pavement Marking Legend

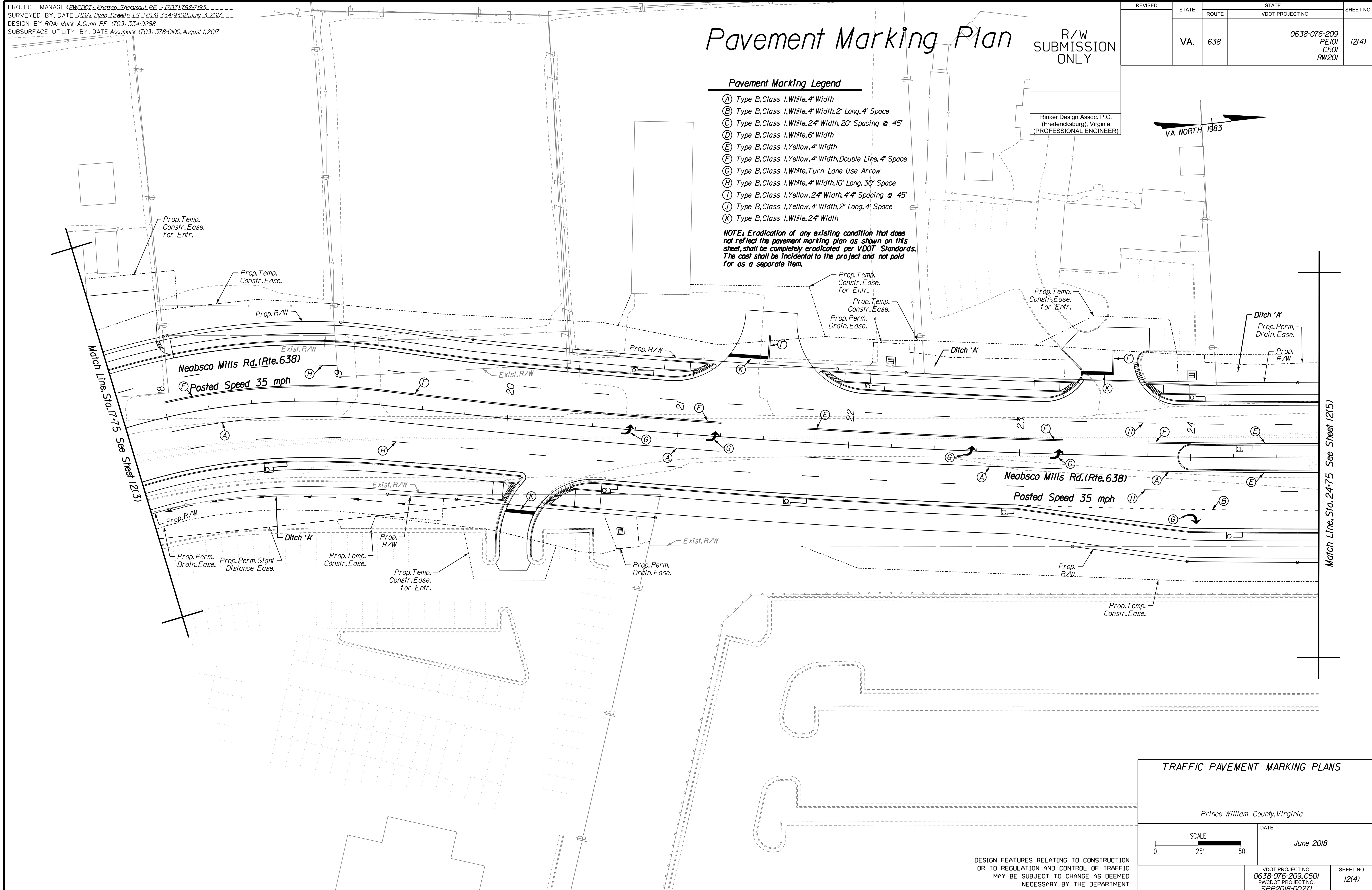
- (A) Type B, Class 1, White, 4" Width
- (B) Type B, Class 1, White, 4" Width, 2' Long, 4' Space
- (C) Type B, Class 1, White, 24" Width, 20' Spacing @ 45'
- (D) Type B, Class 1, White, 6" Width
- (E) Type B, Class 1, Yellow, 4" Width
- (F) Type B, Class 1, Yellow, 4" Width, Double Line, 4" Space
- (G) Type B, Class 1, White, Turn Lane Use Arrow
- (H) Type B, Class 1, White, 4" Width, 10' Long, 30' Space
- (J) Type B, Class 1, Yellow, 24" Width, 4' 4" Spacing @ 45'
- (K) Type B, Class 1, Yellow, 4" Width, 2' Long, 4' Space

NOTE: Eradication of any existing condition that does not reflect the pavement marking plan as shown on this sheet, shall be completely eradicated per VDOT Standards. The cost shall be incidental to the project and not paid for as a separate item.

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



Rinker Design Associates, P.C.
Civil Engineering, Surveying, Land Planning, Transportation, Environmental, Right of Way Services



TRAFFIC PAVEMENT MARKING PLANS

Prince William County, Virginia
SCALE: 0 25' 50'
DATE: June 2018

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

VDOT PROJECT NO. 0638-076-209, C501 PWDOT PROJECT NO. SPR2018-00271	SHEET NO. 12(4)
--	--------------------

THESE PLANS ARE UNFINISHED AND UNAPPROVED AND ARE NOT TO BE USED FOR ANY TYPE OF CONSTRUCTION.

R.W. PHASE PLANS

PROJECT MANAGER: EWCDOT - Khattab, Shammout, P.E. - (703) 792-7193
SURVEYED BY, DATE: RDA: Bryan Drea, LS (703) 334-9302, July 3, 2017
DESIGN BY: RDA: Mack, A. Gunn, P.E. (703) 334-9288
SUBSURFACE UTILITY BY, DATE: Accurmark (703) 378-0100, August 1, 2017

REVISED	STATE		STATE		SHEET NO.
	VA.	ROUTE	VDOT PROJECT NO.		
	VA.	638	0638-076-209	PE101 CS01 RW201	12(5)

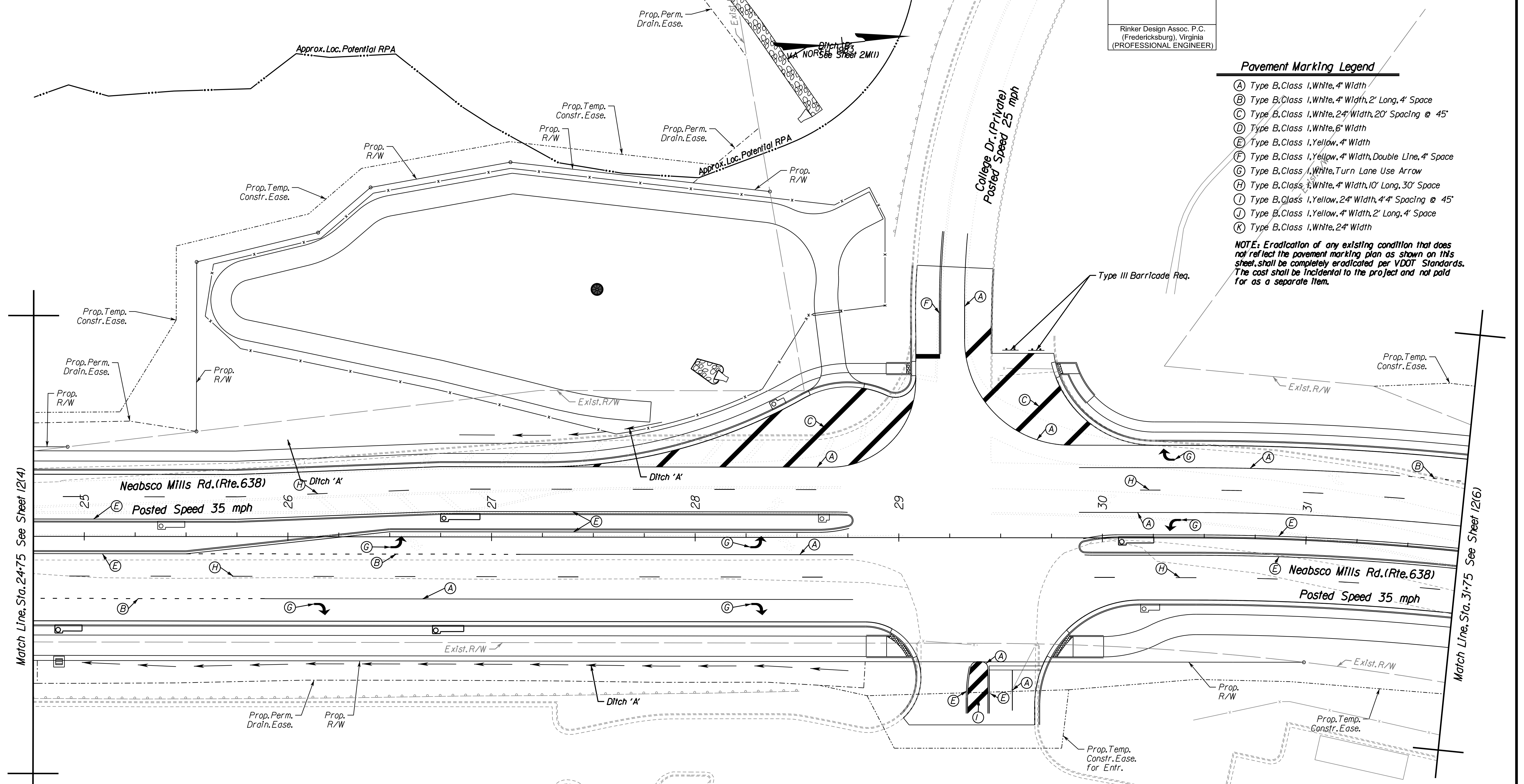
R/W SUBMISSION ONLY

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

- Pavement Marking Legend**
- (A) Type B, Class 1, White, 4" Width
 - (B) Type B, Class 1, White, 4" Width, 2' Long, 4' Space
 - (C) Type B, Class 1, White, 24" Width, 10' Long, 30' Spacing @ 45°
 - (D) Type B, Class 1, White, 6" Width
 - (E) Type B, Class 1, Yellow, 4" Width
 - (F) Type B, Class 1, Yellow, 4" Width, Double Line, 4' Space
 - (G) Type B, Class 1, White, Turn Lane Use Arrow
 - (H) Type B, Class 1, White, 4" Width, 10' Long, 30' Space
 - (I) Type B, Class 1, Yellow, 24" Width, 4' Spacing @ 45°
 - (J) Type B, Class 1, Yellow, 4" Width, 2' Long, 4' Space
 - (K) Type B, Class 1, White, 24" Width

NOTE: Eradication of any existing condition that does not reflect the pavement marking plan as shown on this sheet shall be completely eradicated per VDOT Standards. The cost shall be incidental to the project and not paid for as a separate item.

Pavement Marking Plan



Rinker Design Associates, P.C.
Civil Engineering, Surveying, Land Planning, Transportation, Environmental, Right of Way Services

THESE PLANS ARE UNFINISHED AND UNAPPROVED AND ARE NOT TO BE USED FOR ANY TYPE OF CONSTRUCTION.

R.W. PHASE PLANS

TRAFFIC PAVEMENT MARKING PLANS

Prince William County, Virginia

SCALE: 0 25' 50'

DATE: June 2018

VDOT PROJECT NO. 0638-076-209, CS01
PWCDOT PROJECT NO. SPR2018-00271

SHEET NO. 12(5)

PROJECT MANAGER PWCDOT: Khattab, Shamout, P.E. (703) 792-7193
SURVEYED BY, DATE RDA: Ryan Dreel'a, L.S. (703) 334-9302, July 3, 2017
DESIGN BY RDA: Mack, A. Gunn, P.E. (703) 334-9288
SUBSURFACE UTILITY BY, DATE Accurmark (703) 378-0100, August 1, 2017

Pavement Marking Plan

R/W
SUBMISSION
ONLY

REVISED	STATE	ROUTE	STATE VDOT PROJECT NO.	SHEET NO.
	VA.	638	0638-076-209 PE101 C501 RW201	1216

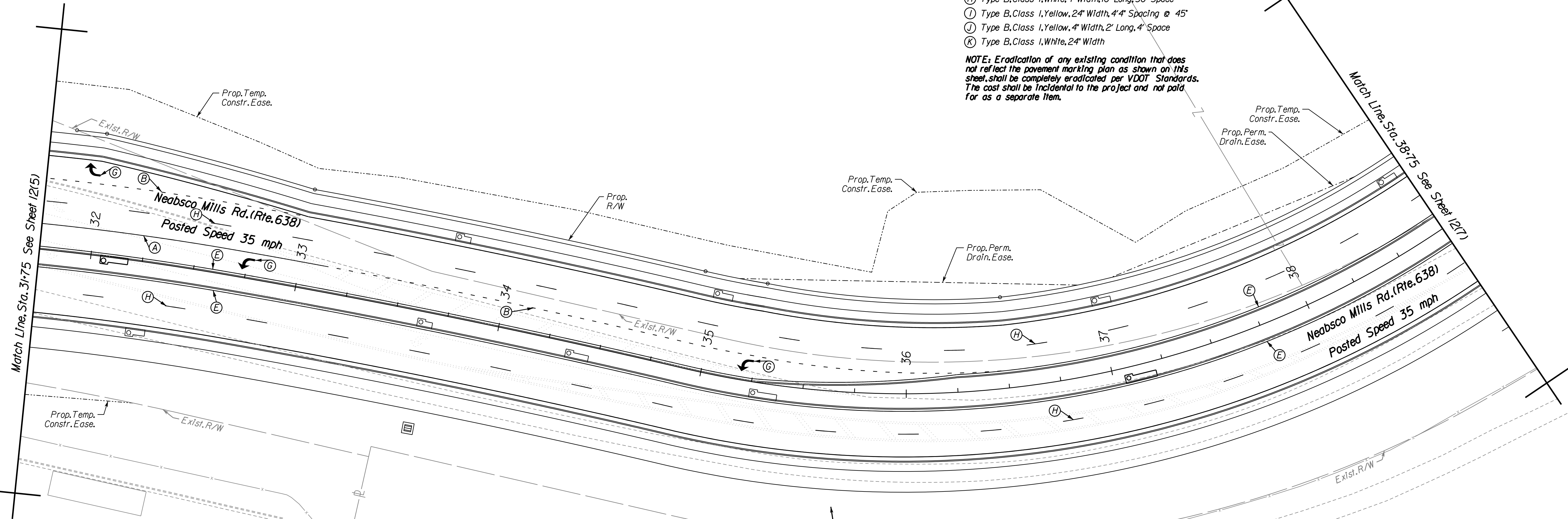
Rinker Design Assoc. P.C.
(Fredericksburg), Virginia
(PROFESSIONAL ENGINEER)



Pavement Marking Legend

- (A) Type B, Class I, White, 4" Width
- (B) Type B, Class I, White, 4" Width, 2' Long, 4' Space
- (C) Type B, Class I, White, 24" Width, 20' Spacing @ 45°
- (D) Type B, Class I, White, 6" Width
- (E) Type B, Class I, Yellow, 4" Width
- (F) Type B, Class I, Yellow, 4" Width, Double Line, 4" Space
- (G) Type B, Class I, White, Turn Lane Use Arrow
- (H) Type B, Class I, White, 4" Width, 10' Long, 30' Space
- (I) Type B, Class I, Yellow, 24" Width, 44" Spacing @ 45°
- (J) Type B, Class I, Yellow, 4" Width, 2' Long, 4' Space
- (K) Type B, Class I, White, 24" Width

NOTE: Eradication of any existing condition that does not reflect the pavement marking plan as shown on this sheet shall be completely eradicated per VDOT Standards. The cost shall be incidental to the project and not paid for as a separate item.



Rinker
 Design Associates, P.C.
 Civil Engineering, Surveying, Land Planning,
 Transportation, Environmental
 Right of Way Services
 11000 Lakeside Drive
 Suite 1000
 Fredericksburg, VA 22401
 Phone: (540) 371-1100
 Fax: (540) 371-1101
 www.rinker.com

TRAFFIC PAVEMENT MARKING PLANS

Prince William County, Virginia

DATE: June 2018

SCALE: 0 25' 50'

VDOT PROJECT NO. 0638-076-209, C501	SHEET NO. 1216
PWCDOT PROJECT NO. SPR2018-00271	

THESE PLANS ARE UNFINISHED AND UNAPPROVED AND ARE NOT TO BE USED FOR ANY TYPE OF CONSTRUCTION.

R.W. PHASE PLANS

PROJECT MANAGER: EWCDOT - Khattab, Shammout, P.E. - (703) 292-7193
SURVEYED BY, DATE: RDA: Bryan Dreel'ia, L.S. (703) 334-9302, July 3, 2017
DESIGN BY: RDA: Mack & Gunn, P.E. (703) 334-9288
SUBSURFACE UTILITY BY, DATE: Accumack (703) 378-0100, August 1, 2017

REVISED	STATE	ROUTE	STATE	VDOT PROJECT NO.	SHEET NO.
	VA.	638		0638-076-209 PE101 CS01 RW201	12(7)

Pavement Marking Plan

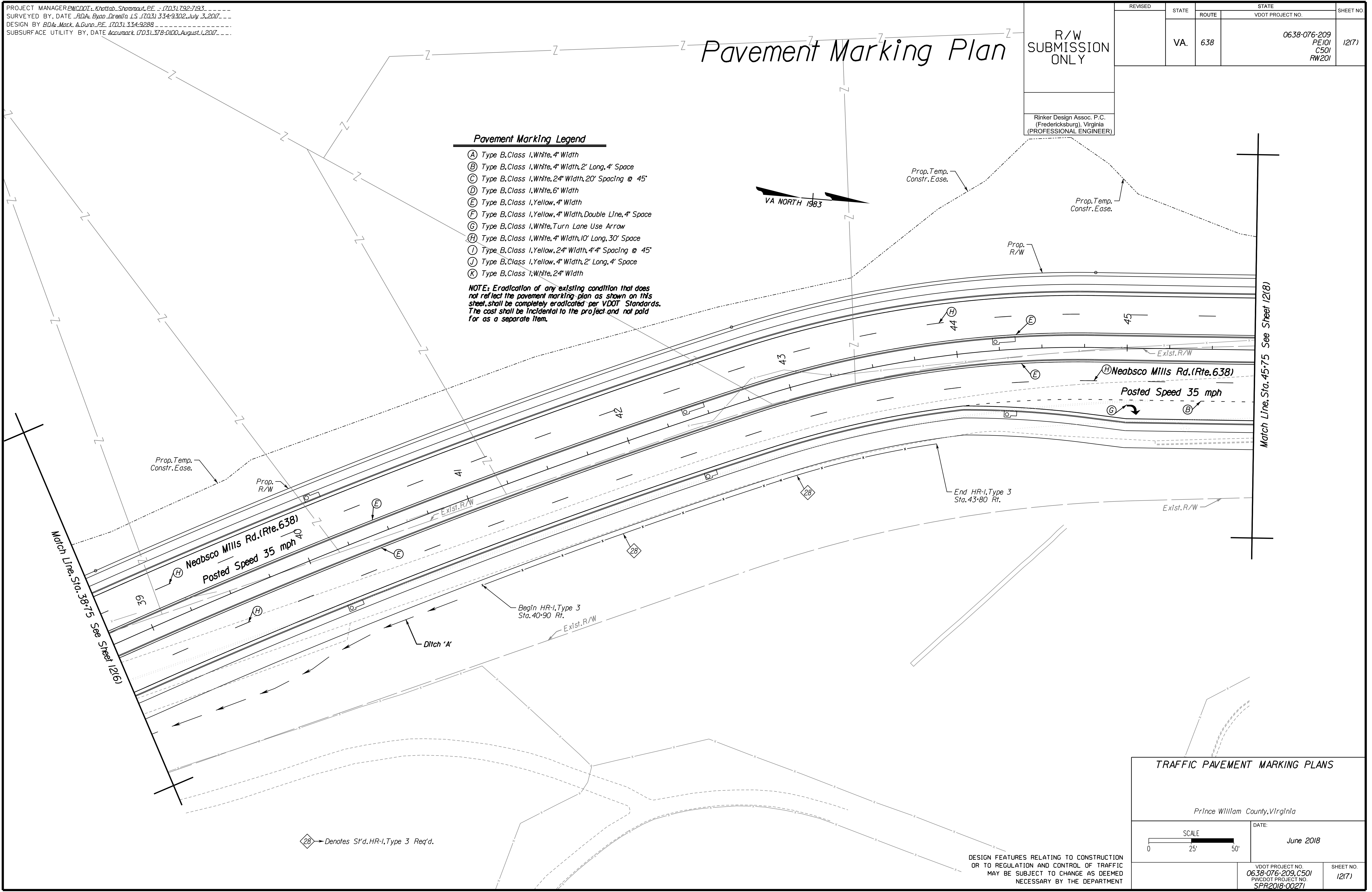
R/W SUBMISSION ONLY

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

Pavement Marking Legend

- (A) Type B, Class I, White, 4" Width
- (B) Type B, Class I, White, 4" Width, 2' Long, 4' Space
- (C) Type B, Class I, White, 24" Width, 20' Spacing @ 45'
- (D) Type B, Class I, White, 6" Width
- (E) Type B, Class I, Yellow, 4" Width
- (F) Type B, Class I, Yellow, 4" Width, Double Line, 4" Space
- (G) Type B, Class I, White, Turn Lane Use Arrow
- (H) Type B, Class I, White, 4" Width, 10' Long, 30' Space
- (I) Type B, Class I, Yellow, 24" Width, 4" Spacing @ 45'
- (J) Type B, Class I, Yellow, 4" Width, 2' Long, 4' Space
- (K) Type B, Class I, White, 24" Width

NOTE: Eradication of any existing condition that does not reflect the pavement marking plan as shown on this sheet, shall be completely eradicated per VDOT Standards. The cost shall be incidental to the project and not paid for as a separate item.



Rinker Design Associates, P.C.
Civil Engineering, Surveying, Land Planning, Transportation, Environmental, Right of Way Services

5/2/2019

Match Line, Sta. 45+75 See Sheet 12(8)

Match Line, Sta. 38+75 See Sheet 12(6)

TRAFFIC PAVEMENT MARKING PLANS

Prince William County, Virginia

SCALE: 0 25' 50'

DATE: June 2018

VDOT PROJECT NO. 0638-076-209, C501
PWCDOT PROJECT NO. SPR2018-00271

SHEET NO. 12(7)

THESE PLANS ARE UNFINISHED AND UNAPPROVED AND ARE NOT TO BE USED FOR ANY TYPE OF CONSTRUCTION.

R.W. PHASE PLANS

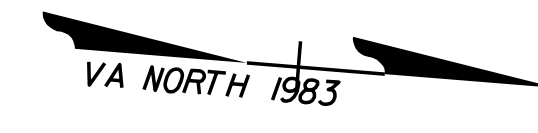
PROJECT MANAGER: EWCDOT - Khattab, Shammaout, P.E. (703) 292-7193
SURVEYED BY, DATE: RDA: Ryan Dreehl, LS (703) 334-9302, July 3, 2017
DESIGN BY: RDA: Mack, Gunn, P.E. (703) 334-9288
SUBSURFACE UTILITY BY, DATE: Accurmark (703) 378-0100, August 1, 2017

Pavement Marking Plan

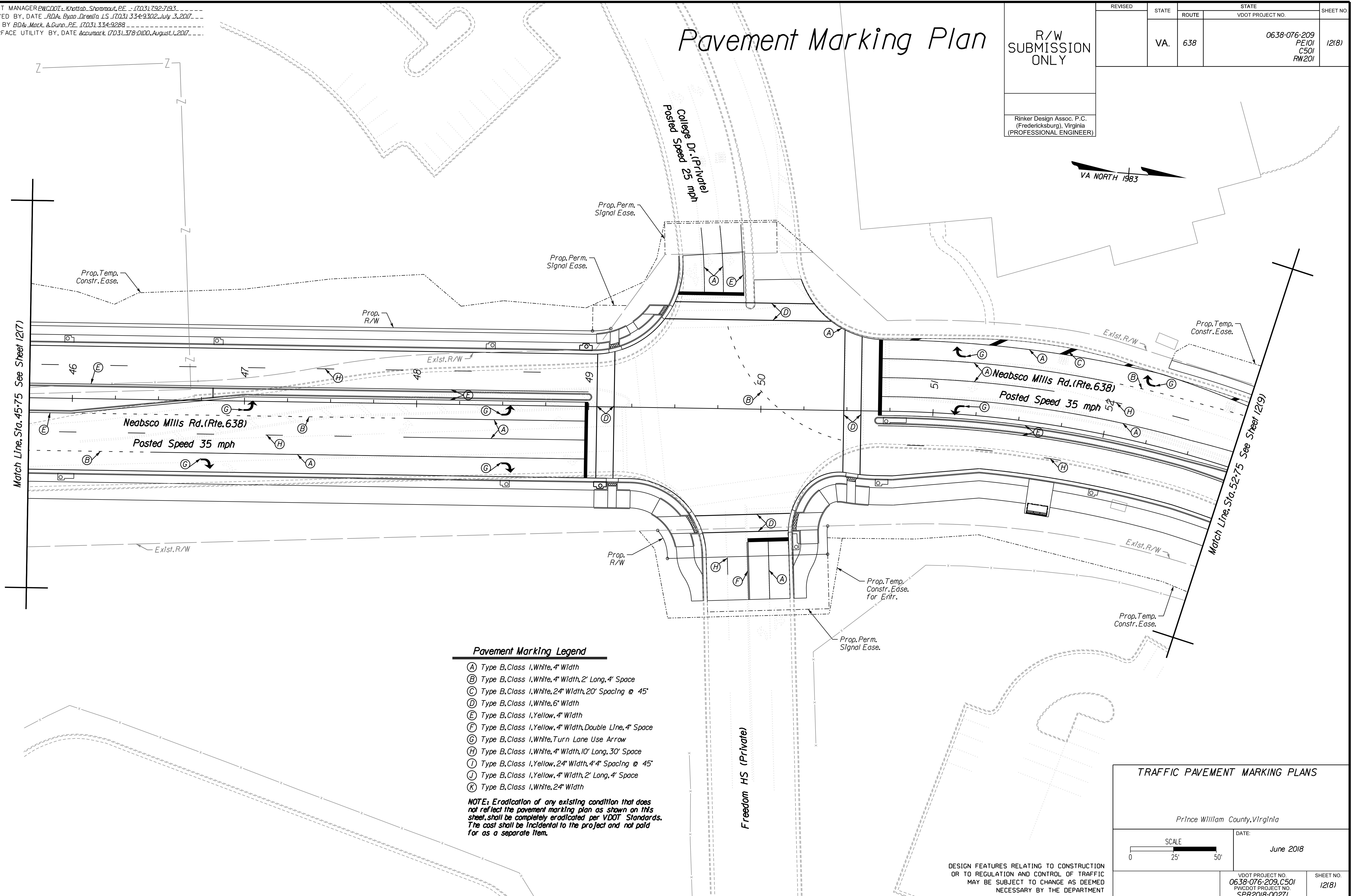
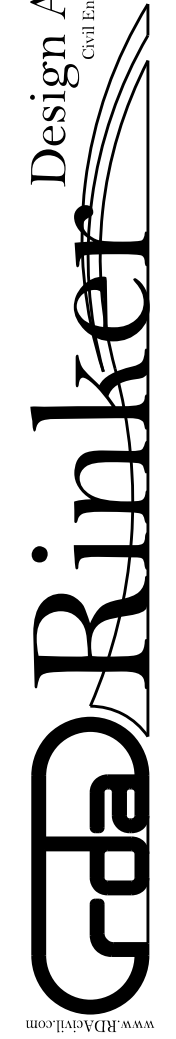
R/W
SUBMISSION
ONLY

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

REVISED	STATE	ROUTE	STATE	VDOT PROJECT NO.	SHEET NO.
	VA.	638		0638-076-209 PE101 C501 RW201	1218



Rinker Design Associates, P.C.
Civil Engineering, Surveying, Land Planning, Transportation, Environmental, Right of Way Services



Pavement Marking Legend

- (A) Type B, Class 1, White, 4" Width
- (B) Type B, Class 1, White, 4" Width, 2' Long, 4' Space
- (C) Type B, Class 1, White, 24" Width, 20' Spacing @ 45'
- (D) Type B, Class 1, White, 6" Width
- (E) Type B, Class 1, Yellow, 4" Width
- (F) Type B, Class 1, Yellow, 4" Width, Double Line, 4" Space
- (G) Type B, Class 1, White, Turn Lane Use Arrow
- (H) Type B, Class 1, White, 4" Width, 10' Long, 30' Space
- (I) Type B, Class 1, Yellow, 24" Width, 4" Spacing @ 45'
- (J) Type B, Class 1, Yellow, 4" Width, 2' Long, 4' Space
- (K) Type B, Class 1, White, 24" Width

NOTE: Eradication of any existing condition that does not reflect the pavement marking plan as shown on this sheet, shall be completely eradicated per VDOT Standards. The cost shall be incidental to the project and not paid for as a separate item.

TRAFFIC PAVEMENT MARKING PLANS

Prince William County, Virginia

DATE: June 2018

SCALE: 0 25' 50'

VDOT PROJECT NO. 0638-076-209, C501
PWCDOT PROJECT NO. SPR2018-00271

SHEET NO. 1218

THESE PLANS ARE UNFINISHED AND UNAPPROVED AND ARE NOT TO BE USED FOR ANY TYPE OF CONSTRUCTION.

R.W. PHASE PLANS

PROJECT MANAGER: EWCDOT - Khattab, Shamout, P.E. (703) 292-7193
SURVEYED BY, DATE: RDA - Ryan, Dreella, L.S. (703) 334-9302, July 3, 2017
DESIGN BY: RDA - Mack, Gunn, P.E. (703) 334-9288
SUBSURFACE UTILITY BY, DATE: Accurack (703) 378-0100, August 1, 2017

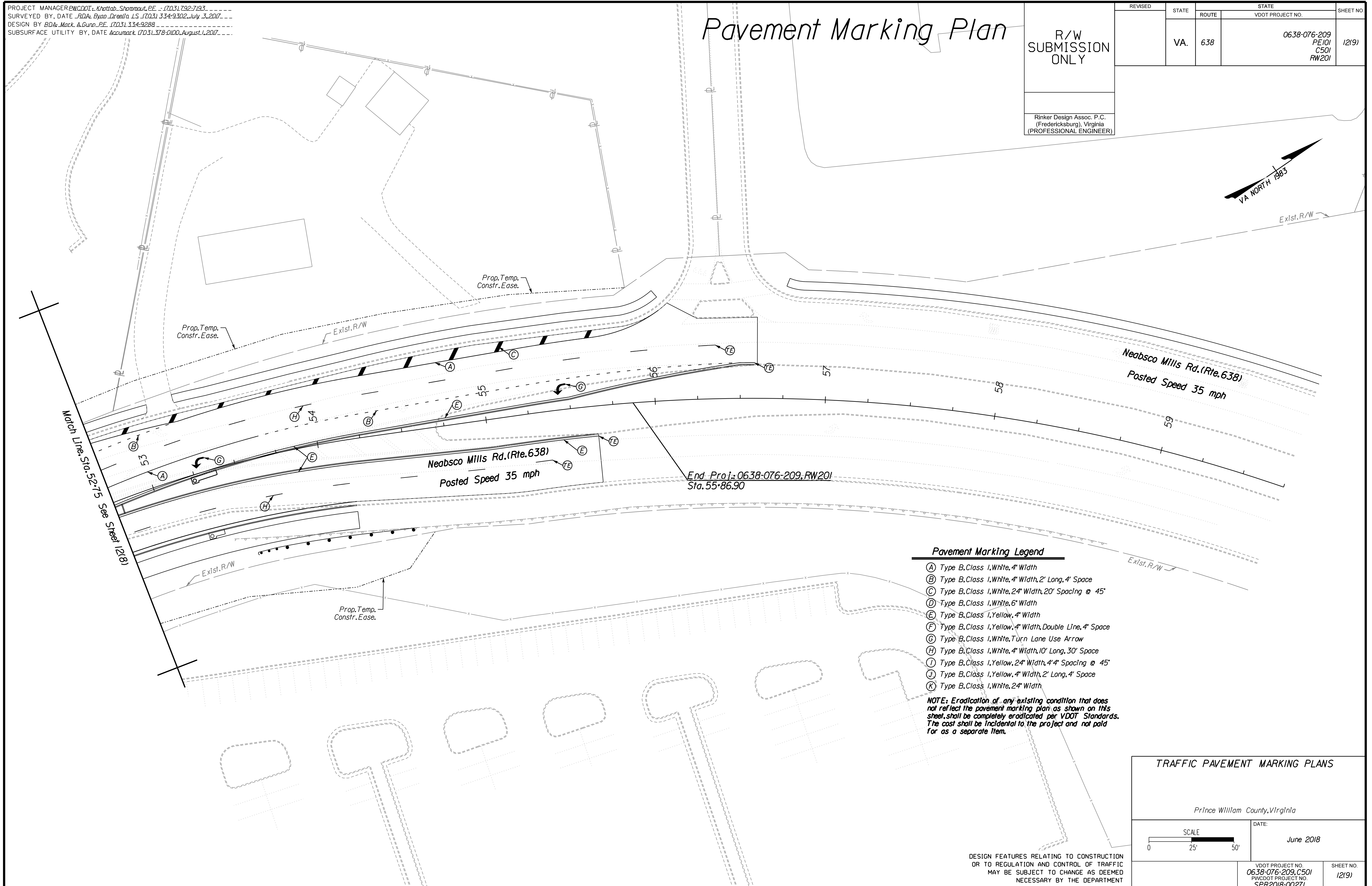
Pavement Marking Plan

R/W
SUBMISSION
ONLY

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

REVISED	STATE	ROUTE	STATE	VDOT PROJECT NO.	SHEET NO.
	VA.	638		0638-076-209 PE101 CS01 RW201	12(9)

Rinker
 Design Associates, P.C.
 Civil Engineering, Surveying, Land Planning,
 Transportation, Environmental,
 Right of Way Services



Pavement Marking Legend

- (A) Type B, Class I, White, 4" Width
- (B) Type B, Class I, White, 4" Width, 2' Long, 4' Space
- (C) Type B, Class I, White, 24" Width, 20' Spacing @ 45'
- (D) Type B, Class I, White, 6" Width
- (E) Type B, Class I, Yellow, 4" Width
- (F) Type B, Class I, Yellow, 4" Width, Double Line, 4' Space
- (G) Type B, Class I, White, Turn Lane Use Arrow
- (H) Type B, Class I, White, 4" Width, 10' Long, 30' Space
- (I) Type B, Class I, Yellow, 24" Width, 44" Spacing @ 45'
- (J) Type B, Class I, Yellow, 4" Width, 2' Long, 4' Space
- (K) Type B, Class I, White, 24" Width

NOTE: Eradication of any existing condition that does not reflect the pavement marking plan as shown on this sheet, shall be completely eradicated per VDOT Standards. The cost shall be incidental to the project and not paid for as a separate item.

TRAFFIC PAVEMENT MARKING PLANS

Prince William County, Virginia

DATE: June 2018

SCALE: 0 25' 50'

VDOT PROJECT NO. 0638-076-209, CS01	SHEET NO. 12(9)
PWCDOT PROJECT NO. SPR2018-00271	

THESE PLANS ARE UNFINISHED AND UNAPPROVED AND ARE NOT TO BE USED FOR ANY TYPE OF CONSTRUCTION.

R.W. PHASE PLANS

PROJECT MANAGER: EWCDOT - Khattab, Shammout, P.E. (703) 292-7193
SURVEYED BY, DATE: RDA: Bryan Dreelin, LS (703) 334-9302, July 3, 2017
DESIGN BY: RDA: Mack, A. Gunn, P.E. (703) 334-9288
SUBSURFACE UTILITY BY, DATE: Accurmark (703) 378-0100, August 1, 2017

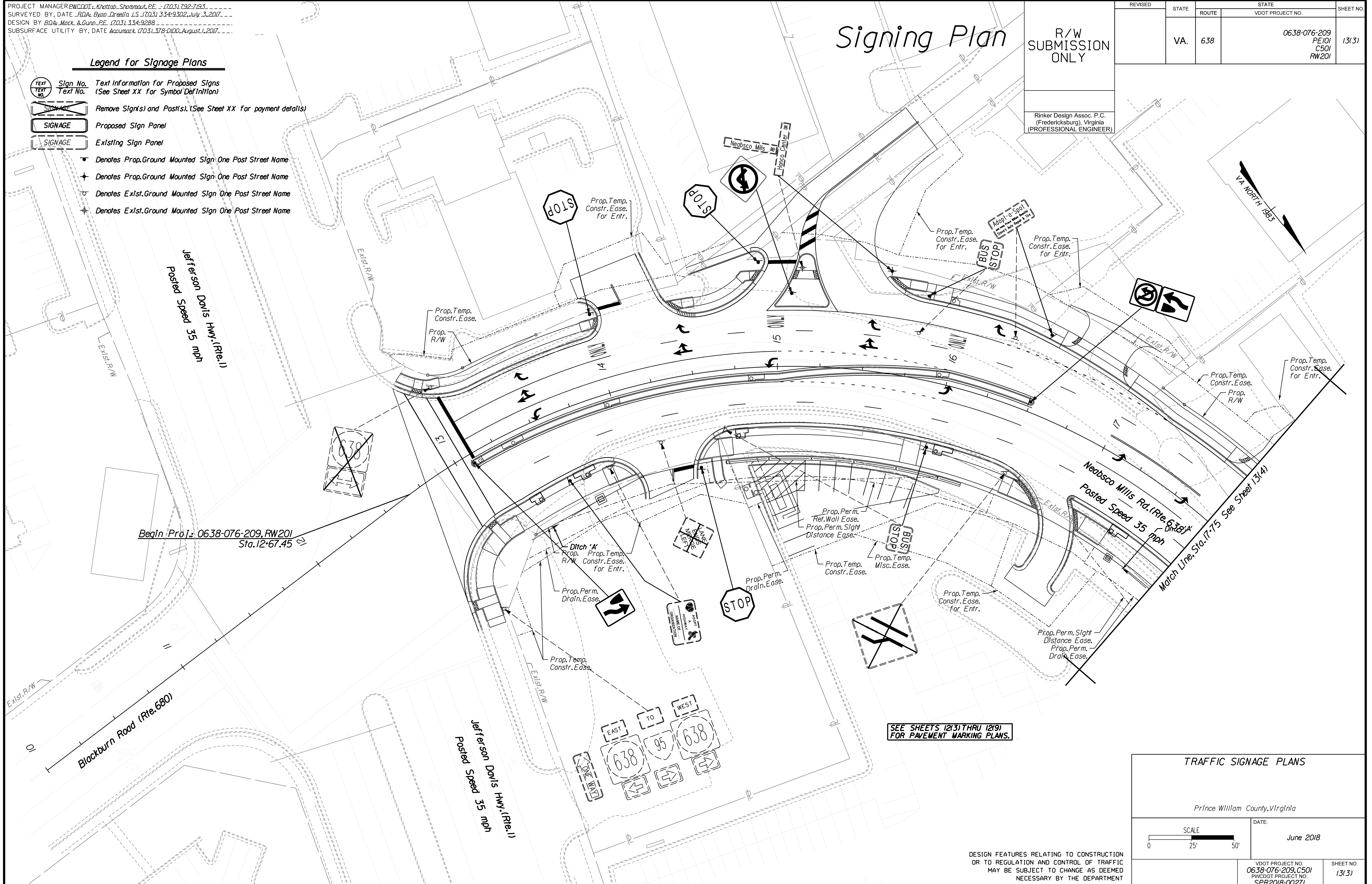
Signing Plan

R/W SUBMISSION ONLY

REVISED	STATE	ROUTE	STATE	VDOT PROJECT NO.	SHEET NO.
	VA.	638		0638-076-209 PE101 CS01 RW201	13(3)

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

- Legend for Signage Plans**
- Text**
Sign No. Text Information for Proposed Signs (See Sheet XX for Symbol Definition)
 - Remove Sign(s) and Post(s)** (See Sheet XX for payment details)
 - Proposed Sign Panel**
 - Existing Sign Panel**
 - Denotes Prop. Ground Mounted Sign One Post Street Name
 - Denotes Exst. Ground Mounted Sign One Post Street Name
 - Denotes Prop. Ground Mounted Sign One Post Street Name
 - Denotes Exst. Ground Mounted Sign One Post Street Name



Begin Proj.: 0638-076-209, RW201
Sta. 12+67.45

SEE SHEETS 12(3) THRU 12(9)
FOR PAVEMENT MARKING PLANS.

TRAFFIC SIGNAGE PLANS

Prince William County, Virginia

SCALE: 0 25' 50'

DATE: June 2018

VDOT PROJECT NO. 0638-076-209, C501
PWCDOT PROJECT NO. SPR2018-00271

SHEET NO. 13(3)

THESE PLANS ARE UNFINISHED AND UNAPPROVED AND ARE NOT TO BE USED FOR ANY TYPE OF CONSTRUCTION.

R.W. PHASE PLANS

Cda Rinker Design Associates, P.C.
Civil Engineering, Surveying, Land Planning, Environmental, Transportation, Right of Way Services

PROJECT MANAGER EWCDOT - Khattab, Shamout, P.E. (703) 292-7193
SURVEYED BY, DATE RDA: Bryan Dreelin, LS (703) 334-9302, July 3, 2017
DESIGN BY RDA: Mack, Gunn, P.E. (703) 334-9288
SUBSURFACE UTILITY BY, DATE Accurack (703) 378-0100, August 1, 2017

Signing Plan

R/W SUBMISSION ONLY

REVISED	STATE	ROUTE	STATE	VDOT PROJECT NO.	SHEET NO.
	VA.	638		0638-076-209 PE101 CS01 RW201	13(4)

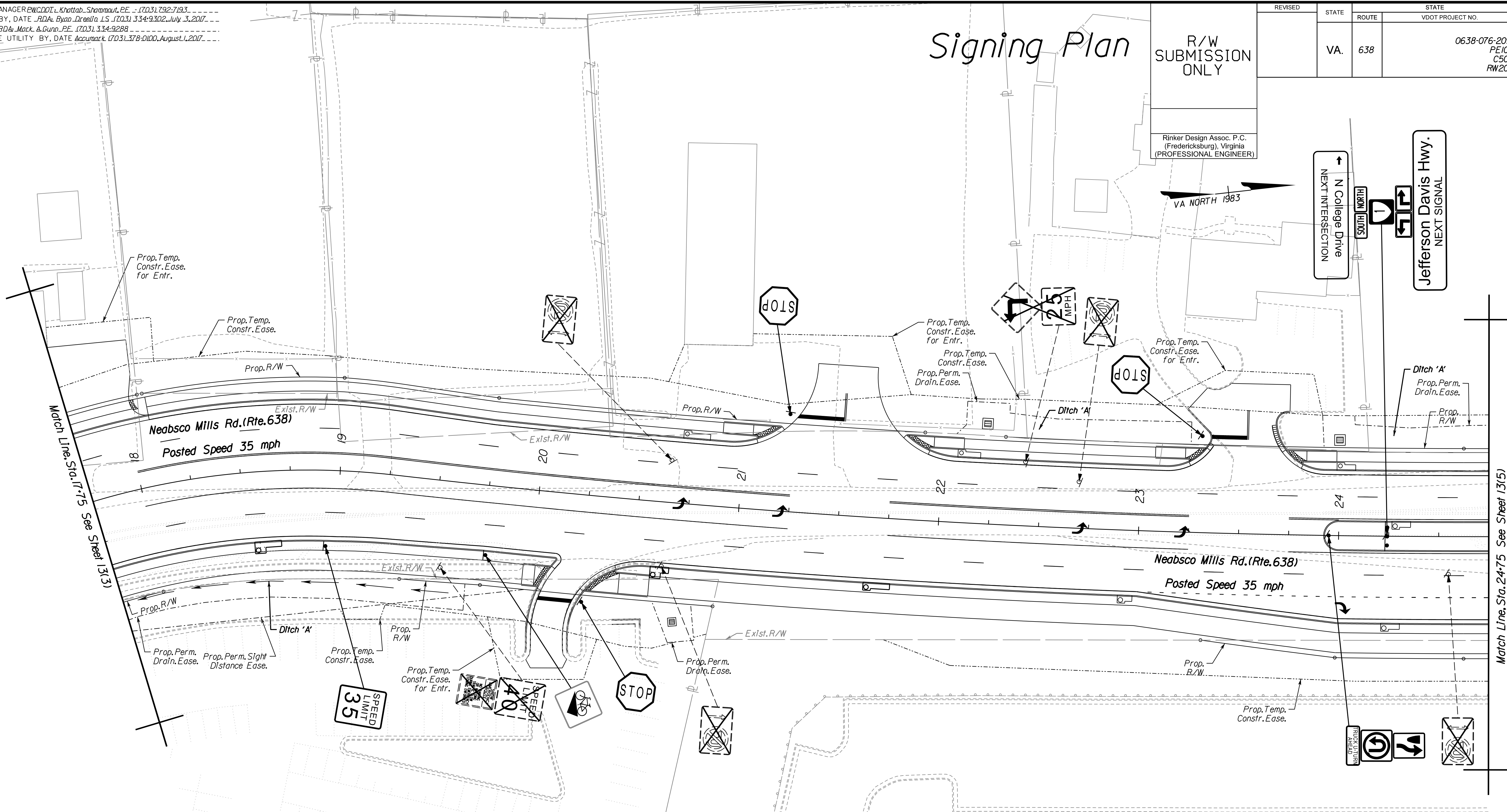
Rinker Design Assoc. P.C.
(Fredericksburg), Virginia
(PROFESSIONAL ENGINEER)

VA NORTH 1983

N College Drive
NEXT INTERSECTION

Jefferson Davis Hwy.
NEXT SIGNAL

Rinker
Design Associates, P.C.
Civil Engineering, Surveying, Land Planning,
Transportation, Environmental,
Right of Way Services



Legend for Signage Plans

- Sign No. Text Information for Proposed Signs
Text No. (See Sheet XX for Symbol Definition)
- Remove Sign(s) and Post(s). (See Sheet XX for payment details)
- Proposed Sign Panel
- Existing Sign Panel
- Denotes Prop. Ground Mounted Sign One Post Street Name
- Denotes Prop. Ground Mounted Sign One Post Street Name
- Denotes Exst. Ground Mounted Sign One Post Street Name
- Denotes Exst. Ground Mounted Sign One Post Street Name

SEE SHEETS 12(3) THRU 12(9)
FOR PAVEMENT MARKING PLANS.

TRAFFIC SIGNAGE PLANS

Prince William County, Virginia

SCALE 0 25' 50'
DATE June 2018

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

VDOT PROJECT NO. 0638-076-209, CS01
PWCDOT PROJECT NO. SPR2018-00271
SHEET NO. 13(4)

THESE PLANS ARE UNFINISHED AND UNAPPROVED AND ARE NOT TO BE USED FOR ANY TYPE OF CONSTRUCTION.

R.W. PHASE PLANS

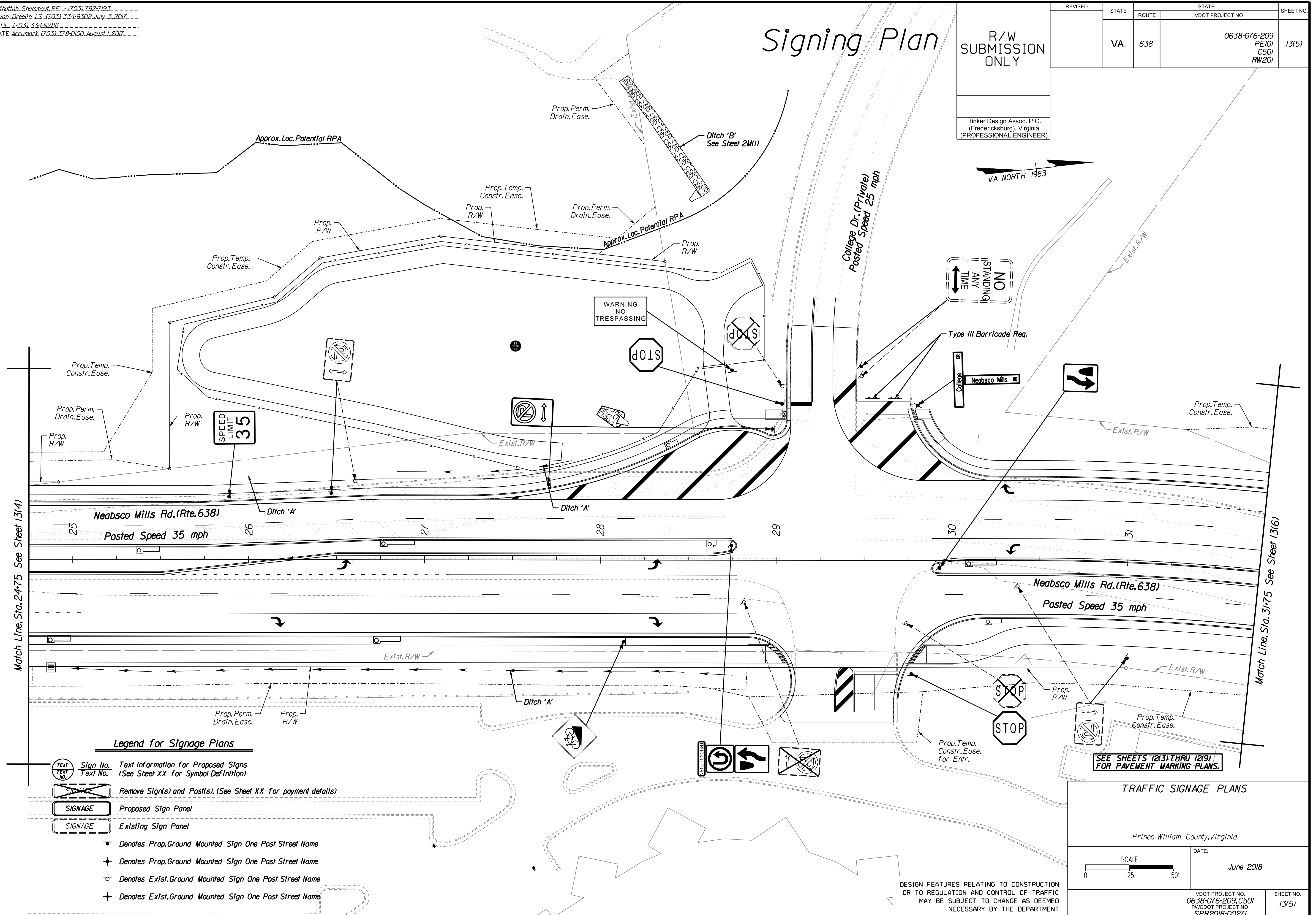
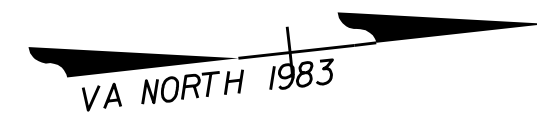
PROJECT MANAGER: EWCDOT - Khattab, Shammout, P.E. (703) 792-7193
SURVEYED BY, DATE: RDA: Ryan, Dreel'a, L.S. (703) 334-9302, July 3, 2017
DESIGN BY: RDA: Mack, A. Gunn, P.E. (703) 334-9288
SUBSURFACE UTILITY BY, DATE: Accurmark (703) 378-0100, August 1, 2017

Signing Plan

R/W SUBMISSION ONLY

REVISED	STATE	ROUTE	STATE	VDOT PROJECT NO.	SHEET NO.
	VA.	638		0638-076-209 PE101 CS01 RW201	13(5)

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



Match Line, Sta. 24+75 See Sheet 13(4)

Match Line, Sta. 31+75 See Sheet 13(6)

Legend for Signage Plans

- Sign No. Text Information for Proposed Signs (See Sheet XX for Symbol Definition)
- Remove Sign(s) and Post(s). (See Sheet XX for payment details)
- Proposed Sign Panel
- Existing Sign Panel
- Denotes Prop. Ground Mounted Sign One Post Street Name
- Denotes Prop. Ground Mounted Sign One Post Street Name
- Denotes Exst. Ground Mounted Sign One Post Street Name
- Denotes Exst. Ground Mounted Sign One Post Street Name

TRAFFIC SIGNAGE PLANS

Prince William County, Virginia

SCALE: 0 25' 50'

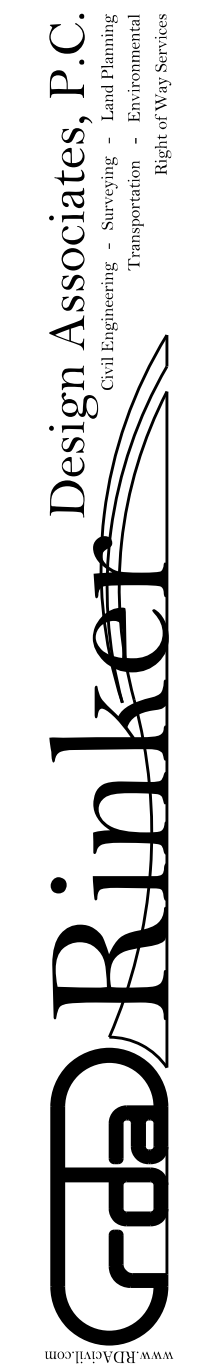
DATE: June 2018

VDOT PROJECT NO. 0638-076-209, CS01
PWCDOT PROJECT NO. SPR2018-00271

SHEET NO. 13(5)

THESE PLANS ARE UNFINISHED AND UNAPPROVED AND ARE NOT TO BE USED FOR ANY TYPE OF CONSTRUCTION.

R.W. PHASE PLANS



PROJECT MANAGER: EWCDOT - Khattab, Shamout, P.E. (703) 292-7193
SURVEYED BY, DATE: RDA - Ryan Dreel'ia, LS (703) 334-9302, July 3, 2017
DESIGN BY: RDA - Mack, Gunn, P.E. (703) 334-9288
SUBSURFACE UTILITY BY, DATE: Accurack (703) 378-0100, August 1, 2017

Legend for Signage Plans

- TEXT** Sign No. Text Information for Proposed Signs (See Sheet XX for Symbol Definition)
- SIGNAGE** Remove Sign(s) and Post(s). (See Sheet XX for payment details)
- SIGNAGE** Proposed Sign Panel
- SIGNAGE** Existing Sign Panel
- Denotes Prop. Ground Mounted Sign One Post Street Name
- Denotes Prop. Ground Mounted Sign One Post Street Name
- Denotes Exst. Ground Mounted Sign One Post Street Name
- Denotes Exst. Ground Mounted Sign One Post Street Name

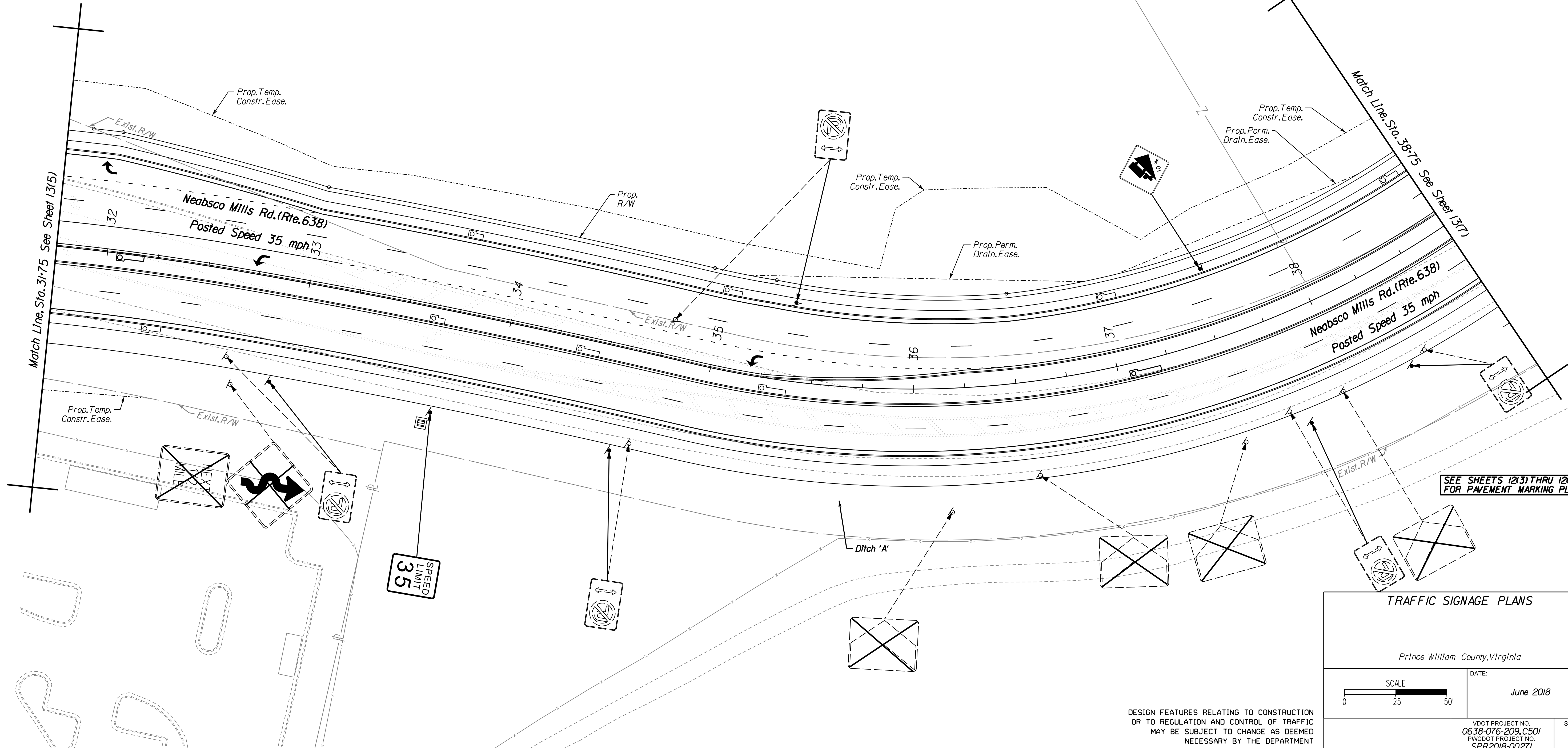
Signing Plan

R/W SUBMISSION ONLY

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

REVISED	STATE	ROUTE	STATE	VDOT PROJECT NO.	SHEET NO.
	VA.	638		0638-076-209 PE101 CS01 RW201	1316)

CdA Rinker Design Associates, P.C.
Civil Engineering, Surveying, Land Planning, Transportation, Environmental, Right of Way Services



SEE SHEETS 1231 THRU 1219 FOR PAVEMENT MARKING PLANS.

TRAFFIC SIGNAGE PLANS

Prince William County, Virginia

SCALE: 0 25' 50'

DATE: June 2018

VDOT PROJECT NO. 0638-076-209, C501
PWCDOT PROJECT NO. SPR2018-00271

SHEET NO. 1316)

THESE PLANS ARE UNFINISHED AND UNAPPROVED AND ARE NOT TO BE USED FOR ANY TYPE OF CONSTRUCTION.

R.W. PHASE PLANS

PROJECT MANAGER: EWCDOT - Khattab, Shamout, P.E. (703) 292-7193
SURVEYED BY, DATE: RDA: Bryan Dreel, LS (703) 334-9302, July 3, 2017
DESIGN BY: RDA: Mack, Gunn, P.E. (703) 334-9288
SUBSURFACE UTILITY BY, DATE: Accurack (703) 378-0100, August 1, 2017

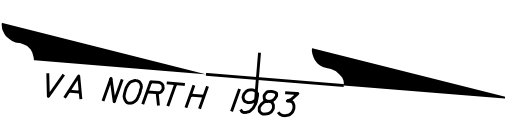
REVISED	STATE	ROUTE	STATE	VDOT PROJECT NO.	SHEET NO.
	VA.	638		0638-076-209 PE101 CS01 RW201	13(7)

Signing Plan

R/W SUBMISSION ONLY

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

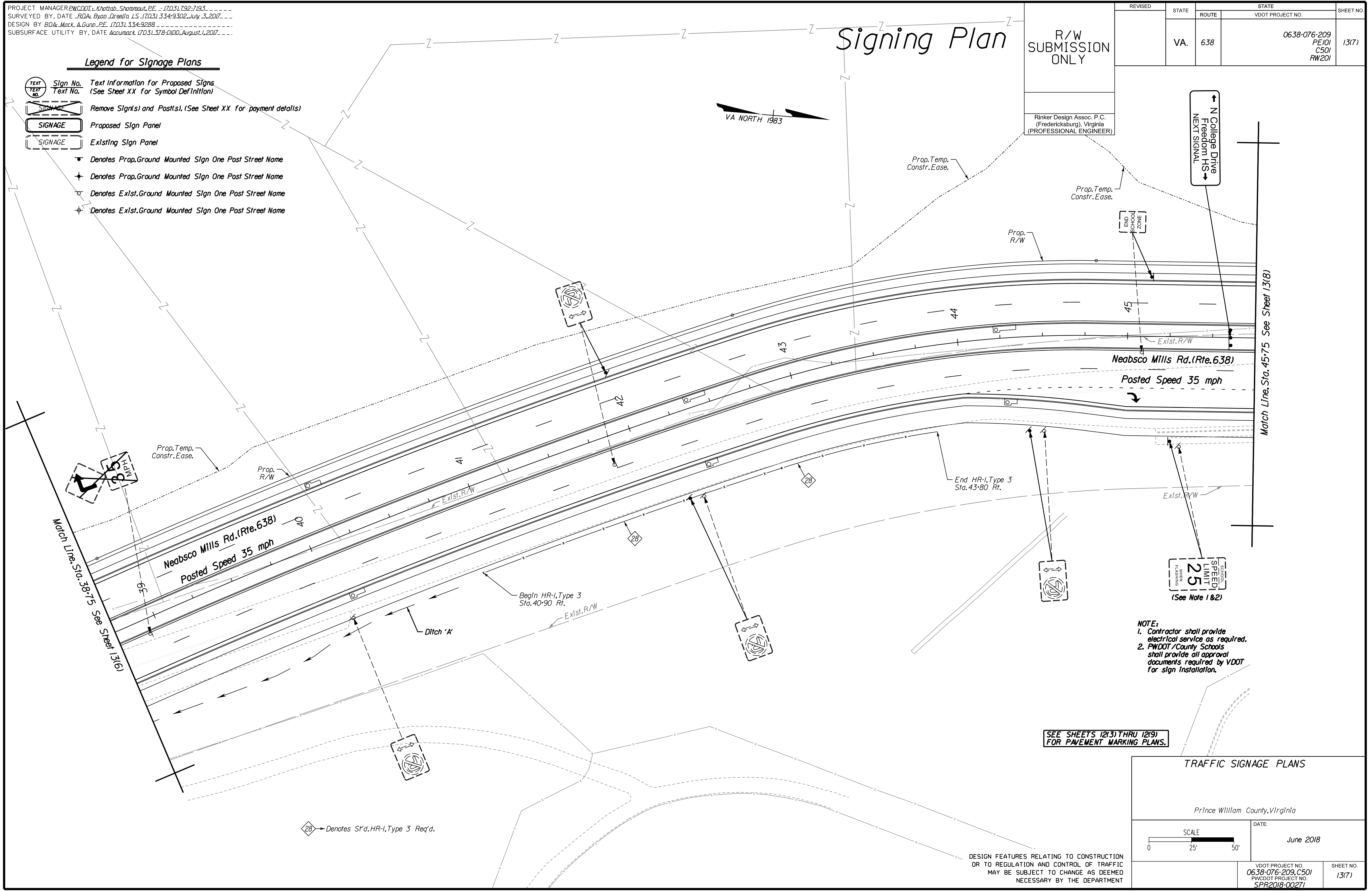
↑ N College Drive
Freedom HS
↓ NEXT SIGNAL



Legend for Signage Plans

- TEXT** Sign No. Text Information for Proposed Signs (See Sheet XX for Symbol Definition)
- SIGNAGE** Remove Sign(s) and Post(s). (See Sheet XX for payment details)
- SIGNAGE** Proposed Sign Panel
- SIGNAGE** Existing Sign Panel
- Denotes Prop. Ground Mounted Sign One Post Street Name
- Denotes Prop. Ground Mounted Sign One Post Street Name
- Denotes Exist. Ground Mounted Sign One Post Street Name
- Denotes Exist. Ground Mounted Sign One Post Street Name

Rinker Design Associates, P.C.
Civil Engineering, Surveying, Land Planning, Transportation, Environmental, Right of Way Services



- NOTE:**
- Contractor shall provide electrical service as required.
 - PW/County Schools shall provide all approval documents required by VDOT for sign installation.

SEE SHEETS 12(3) THRU 12(9) FOR PAVEMENT MARKING PLANS.

TRAFFIC SIGNAGE PLANS

Prince William County, Virginia

DATE: June 2018

SCALE: 0 25' 50'

VDOT PROJECT NO. 0638-076-209, C501
PW/CDOT PROJECT NO. SPR2018-00271

SHEET NO. 13(7)

THESE PLANS ARE UNFINISHED AND UNAPPROVED AND ARE NOT TO BE USED FOR ANY TYPE OF CONSTRUCTION.

R.W. PHASE PLANS

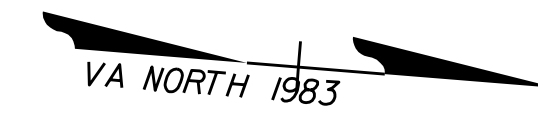
PROJECT MANAGER: EWCDOT - Khattab, Shammaul, P.E. (703) 292-7193
SURVEYED BY, DATE: RDA - Ryan Dreel/a, LS (703) 334-9302, July 3, 2017
DESIGN BY: RDA - Mack, A. Gunn, P.E. (703) 334-9288
SUBSURFACE UTILITY BY, DATE: Accurmark (703) 378-0100, August 1, 2017

Signing Plan

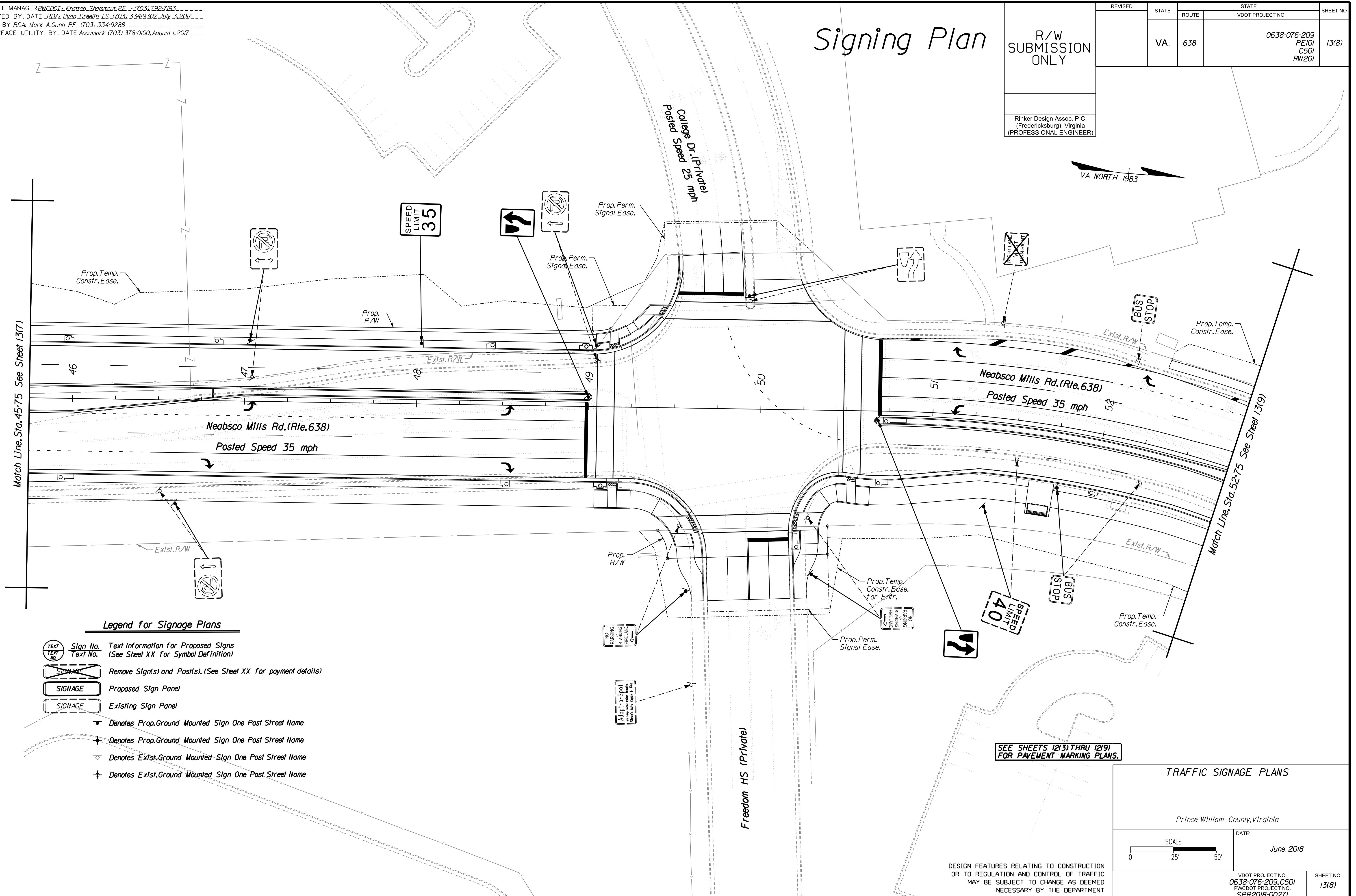
R/W SUBMISSION ONLY

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

REVISED	STATE	ROUTE	STATE	VDOT PROJECT NO.	SHEET NO.
	VA.	638		0638-076-209 PE101 CS01 RW201	1318



Rinker Design Associates, P.C.
Civil Engineering, Surveying, Land Planning, Transportation, Environmental, Right of Way Services



Legend for Signage Plans

- Sign No. Text Information for Proposed Signs (See Sheet XX for Symbol Definition)
- Text No.
- Remove Sign(s) and Post(s). (See Sheet XX for payment details)
- Proposed Sign Panel
- Existing Sign Panel
- Denotes Prop. Ground Mounted Sign One Post Street Name
- Denotes Prop. Ground Mounted Sign One Post Street Name
- Denotes Exst. Ground Mounted Sign One Post Street Name
- Denotes Exst. Ground Mounted Sign One Post Street Name

SEE SHEETS 12(3) THRU 12(9) FOR PAVEMENT MARKING PLANS.

TRAFFIC SIGNAGE PLANS

Prince William County, Virginia

DATE: June 2018

SCALE: 0 25' 50'

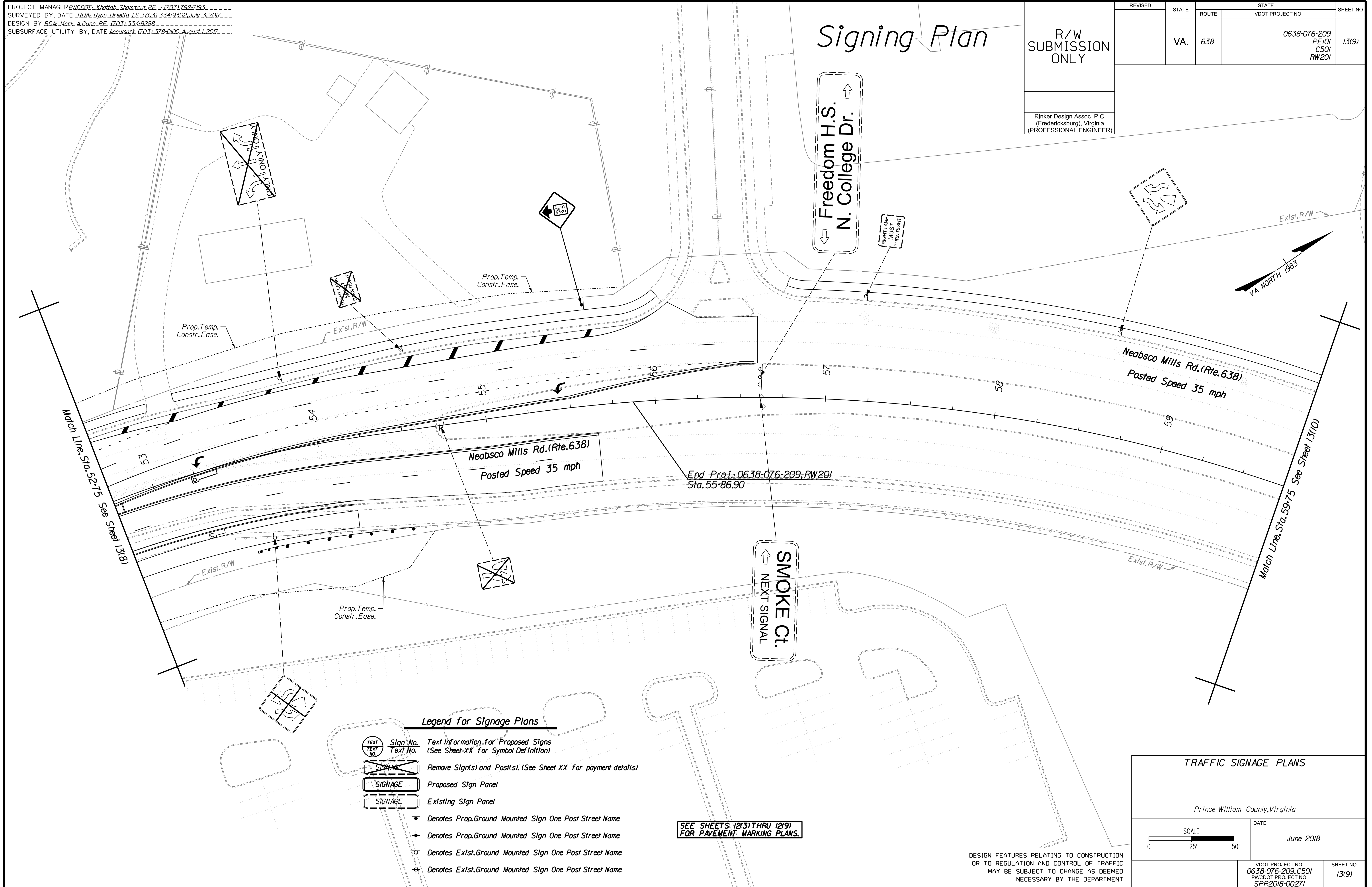
DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT

VDOT PROJECT NO. 0638-076-209, C501	SHEET NO. 1318
PWCDOT PROJECT NO. SPR2018-00271	

THESE PLANS ARE UNFINISHED AND UNAPPROVED AND ARE NOT TO BE USED FOR ANY TYPE OF CONSTRUCTION.

R.W. PHASE PLANS

PROJECT MANAGER: PWCDOT - Khattab, Shammout, P.E. - (703) 292-7193
 SURVEYED BY, DATE: RDA - Ryan, Dreel'a, L.S. (703) 334-9302, July 3, 2017
 DESIGN BY: RDA - Mack, Gunn, P.E. (703) 334-9288
 SUBSURFACE UTILITY BY, DATE: Accurack (703) 378-0100, August 1, 2017

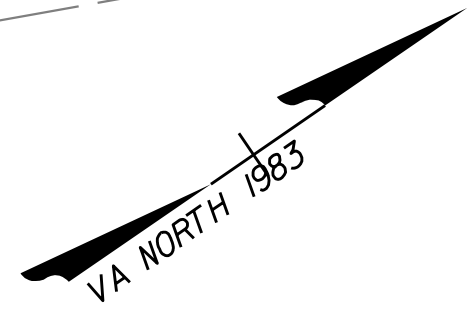


Signing Plan

R/W
SUBMISSION
ONLY

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

REVISED	STATE	ROUTE	STATE	VDOT PROJECT NO.	SHEET NO.
	VA.	638		0638-076-209 PE/01 CS/01 RW/201	13(9)



Legend for Signage Plans

- Sign No. Text Information for Proposed Signs
Text No. (See Sheet XX for Symbol Definition)
- Remove Sign(s) and Post(s). (See Sheet XX for payment details)
- Proposed Sign Panel
- Existing Sign Panel
- Denotes Prop. Ground Mounted Sign One Post Street Name
- Denotes Prop. Ground Mounted Sign One Post Street Name
- Denotes Exst. Ground Mounted Sign One Post Street Name
- Denotes Exst. Ground Mounted Sign One Post Street Name

SEE SHEETS 12(3) THRU 12(9)
FOR PAVEMENT MARKING PLANS.

TRAFFIC SIGNAGE PLANS

Prince William County, Virginia

DATE: June 2018

SCALE: 0 25' 50'

VDOT PROJECT NO. 0638-076-209, C501	SHEET NO. 13(9)
PWCDOT PROJECT NO. SPR2018-00271	

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

THESE PLANS ARE UNFINISHED AND UNAPPROVED AND ARE NOT TO BE USED FOR ANY TYPE OF CONSTRUCTION.

R.W. PHASE PLANS

PROJECT MANAGER: EWCDOT - Khattab, Shammaul, P.E. (703) 792-7193
SURVEYED BY, DATE: RDA - Ryan, Dreella, LS (703) 334-9302, July 3, 2017
DESIGN BY: RDA - Mack, Gunn, P.E. (703) 334-9288
SUBSURFACE UTILITY BY, DATE: Accumark (703) 378-0100, August 1, 2017

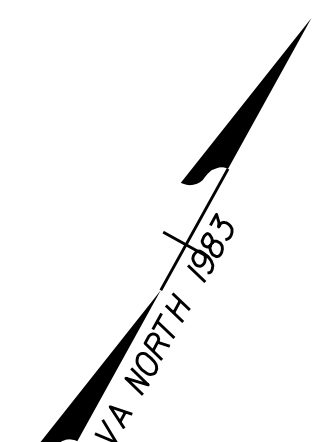
NOTE:
1. Contractor shall provide electrical service as required.
2. PWDOT/County Schools shall provide all approval documents required by VDOT for sign installation.

Signing Plan

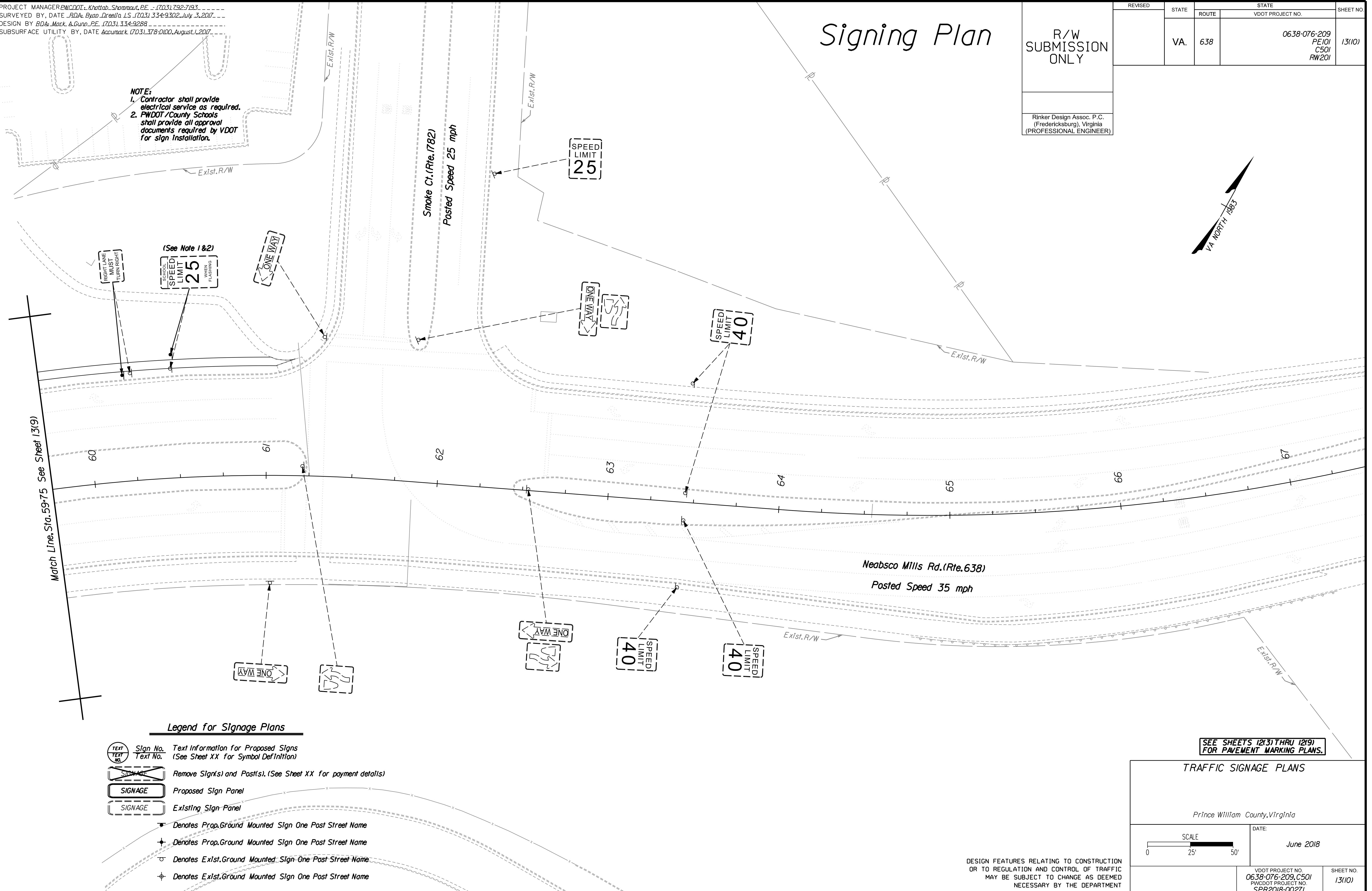
R/W SUBMISSION ONLY

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

REVISED	STATE	ROUTE	STATE	VDOT PROJECT NO.	SHEET NO.
	VA.	638		0638-076-209 PE101 C501 RW201	13(10)



Design Associates, P.C.
Civil Engineering, Surveying, Land Planning, Transportation, Environmental, Right of Way Services



Legend for Signage Plans

- Sign No. Text Information for Proposed Signs
Text No. (See Sheet XX for Symbol Definition)
- Remove Sign(s) and Post(s). (See Sheet XX for payment details)
- Proposed Sign Panel
- Existing Sign Panel
- Denotes Prop. Ground Mounted Sign One Post Street Name
- Denotes Prop. Ground Mounted Sign One Post Street Name
- Denotes Exst. Ground Mounted Sign One Post Street Name
- Denotes Exst. Ground Mounted Sign One Post Street Name

SEE SHEETS 12(3) THRU 12(9) FOR PAVEMENT MARKING PLANS.

TRAFFIC SIGNAGE PLANS

Prince William County, Virginia

SCALE: 0 25' 50'
DATE: June 2018

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

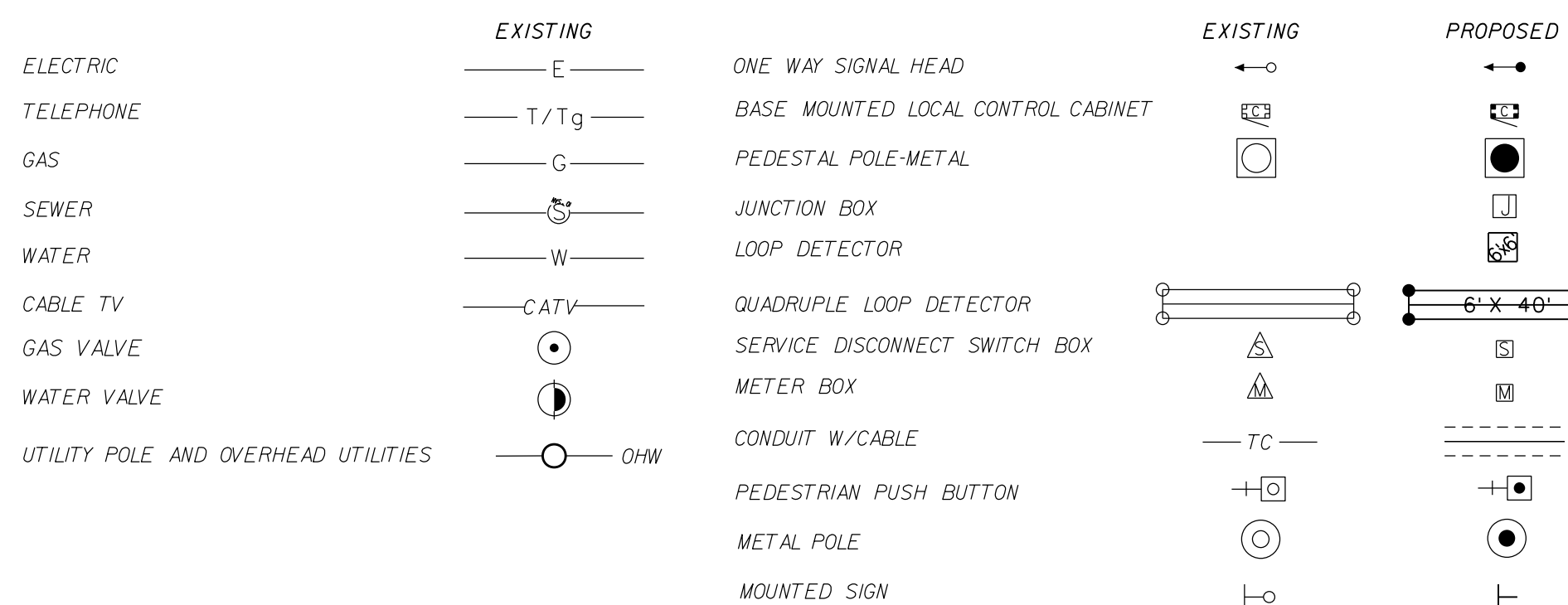
VDOT PROJECT NO. 0638-076-209, C501 PWDOT PROJECT NO. SPR2018-00271	SHEET NO. 13(10)
--	---------------------

THESE PLANS ARE UNFINISHED AND UNAPPROVED AND ARE NOT TO BE USED FOR ANY TYPE OF CONSTRUCTION.

R.W. PHASE PLANS

PROJECT MANAGER PWCDOT - Khattab, Shamouh, P.E. - (703) 792-7193
SURVEYED BY, DATE RDA: Bryan Dreelin, LS (703) 334-9302, July 3, 2017
DESIGN BY RDA: Mack, Gunn, P.E. (703) 334-9288
SUBSURFACE UTILITY BY, DATE Accurmark (703) 378-0100, August 1, 2017

TRAFFIC SIGNAL & UTILITIES LEGEND



PLAN OF PROPOSED TRAFFIC SIGNAL

- 1 Jefferson Davis Highway (US Route 1) at Neabsco Mills Road (Route 638)
2 Intersection of Neabsco Mills Road (Route 638) at Freedom H.S.(Private)/College Drive (Private)

Proposed Signal Modification General Notes:

- 1. All work shall be in accordance with the current edition of the Manual on Uniform Traffic Control Devices (MUTCD)
2. Five (5) working days prior to commencing traffic signal work at any location in Northern Virginia
3. The traffic signal shall not be placed into flashing or full-color operation without the prior notification and approval from a VDOT NROIC Engineer
4. The Contractor shall have their qualified representative present to monitor traffic flow and adjust timings as necessary
5. All right turn overlaps shall be wired to the overlap switch position
6. For installation of conduits, no open cut will be allowed in the roadway surface
7. The Contractor shall perform test pits and exercise care in placement of signal pole foundations
8. Utilities shown on the plans are not guaranteed to be complete or accurate
9. Contractor shall not impact existing utilities when installing any component of the proposed signal
10. New LED traffic signal heads and overhead traffic signal signage shall be covered with a durable non-transparent cover upon installation
11. All parts of the signal to be installed shall be three feet inside the right of way line or signal easement

- 12. NO TRAFFIC SIGNAL SHALL BE PLACED INTO OPERATION UNTIL THE LOCATION IS 100% COMPLETE
13. All unused wires in the signal heads shall be capped individually with crimp type caps
14. The Contractor shall label all spare wires in the controller cabinet
15. (S) denotes cable to be shielded, (M) denotes metal conduit
16. Site preparation and grading shall be incidental to signal installation
17. Trench excavation shall be in accordance with Standard ECI-1
18. The Contractor is responsible for notifying the Engineer of Record between 150 and 120 days prior to scheduled activation
19. THE PROJECT SHALL BE RESPONSIBLE FOR PROVIDING AND MAINTAINING ELECTRICAL SERVICE TO THE CONTROLLER AT ALL TIMES
20. Traffic signal heads shall be cast aluminum
21. Hanger assembly brackets for angled traffic signal heads shall be such that back plates can be installed without alteration or modification
22. No junction boxes shall be installed in paved shoulder, sidewalk, or multi-purpose trail
23. Junction box covers shall have the letters "TRAF" cast in the top surface depression
24. All breakaway poles shall have breakaway fuses
25. Dimensions used for locating equipment (such as signal head assemblies, signs, cameras, etc.) on mast arms are measured to the center of the symbols used to indicate the equipment
26. A. Prior to construction and before purchase of any equipment required for signals, the Contractor is to provide VDOT with shop drawings of all required equipment
B. Foundation design shall be performed by a structural engineer pursuant to VDOT Road and Bridge Standards

- 27. All signal poles, mast arms, and foundations shall be designed to accommodate an additional 5-section head four feet from the tip (free end) of the mast arm
28. Pedestrian pole and foundations shall conform to Standard PF-2
29. All Ped. Push buttons shall be mounted in accordance with Standard PA-2
30. All Pedestrian signals shall be in accordance with Standard SP-9
31. Signs mounted on mast arms shall be in accordance with Standard SMD-2
32. 6' x 40' loop detectors shall be installed in accordance with Standard TD-1C
33. 6' x 6' loop detectors shall be installed in accordance with Standard TD-1B
34. Loop detector amplifiers shall be on for each loop, as required by VDOT's NROIC requirements
35. The cost of 1" metal conduit to JB-S2 for system grounding is included in the cost of electric service SE-5
36. 14/1 Enclosed conductor cable lead in requires 3/8" sawcut
37. THE PROJECT SHALL BE RESPONSIBLE FOR PROVIDING AND MAINTAINING COMMUNICATION TO THE TRAFFIC SIGNAL CONTROLLER AT ALL TIMES
38. Maintenance and repair of the traffic signal, once modifications are started, is the sole responsibility of the Contractor
39. Included in the cost of all conduits shall be the cost of equipment grounding conductor (#6 AWG EGC)

- 40. The cost of maintenance of traffic on roadway while traffic signal is being installed shall be incidental to the project
41. Contractor shall install all loop detection prior to the installation of final surface course
42. Pavement Markings shall be modified to reflect the markings shown on this plan when the signal is installed
43. The Contractor shall be responsible for maintaining detection on all approaches of the intersection at all times and throughout all phases of construction
44. For Preemption Devices:
A. All new traffic signals shall include OPTICOM Emergency Vehicle Preemption (EVP) equipment
B. The Contractor shall install the OPTICOM EVP system as shown on the plans
C. The Contractor shall be responsible for the purchase and installation of the EVP equipment
D. All installed OPTICOM EVP equipment shall be compatible with existing or proposed signal equipment
E. The Contractor shall install the OPTICOM EVP equipment in accordance with the Manufacturers Specifications
F. The proposed OPTICOM EVP sequence diagram and timings shall be submitted to VDOT TE/NROIC and PWC Fire and Rescue
G. The Contractor shall secure approval from the Department of Fire and Rescue
H. Prince William County shall be responsible for the installation, operation, and maintenance associated with the OPTICOM EVP system
I. See Contract/Project Special Provisions for more details

Table with columns: REVISED, STATE, ROUTE, STATE, VDOT PROJECT NO., SHEET NO. Values: VA, 638, 0638-076-209, PE101, CS01, RW201, 14

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



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

THESE PLANS ARE UNFINISHED AND UNAPPROVED AND ARE NOT TO BE USED FOR ANY TYPE OF CONSTRUCTION.

R.W. PHASE PLANS

TRAFFIC SIGNAL MODIFICATION

General Notes

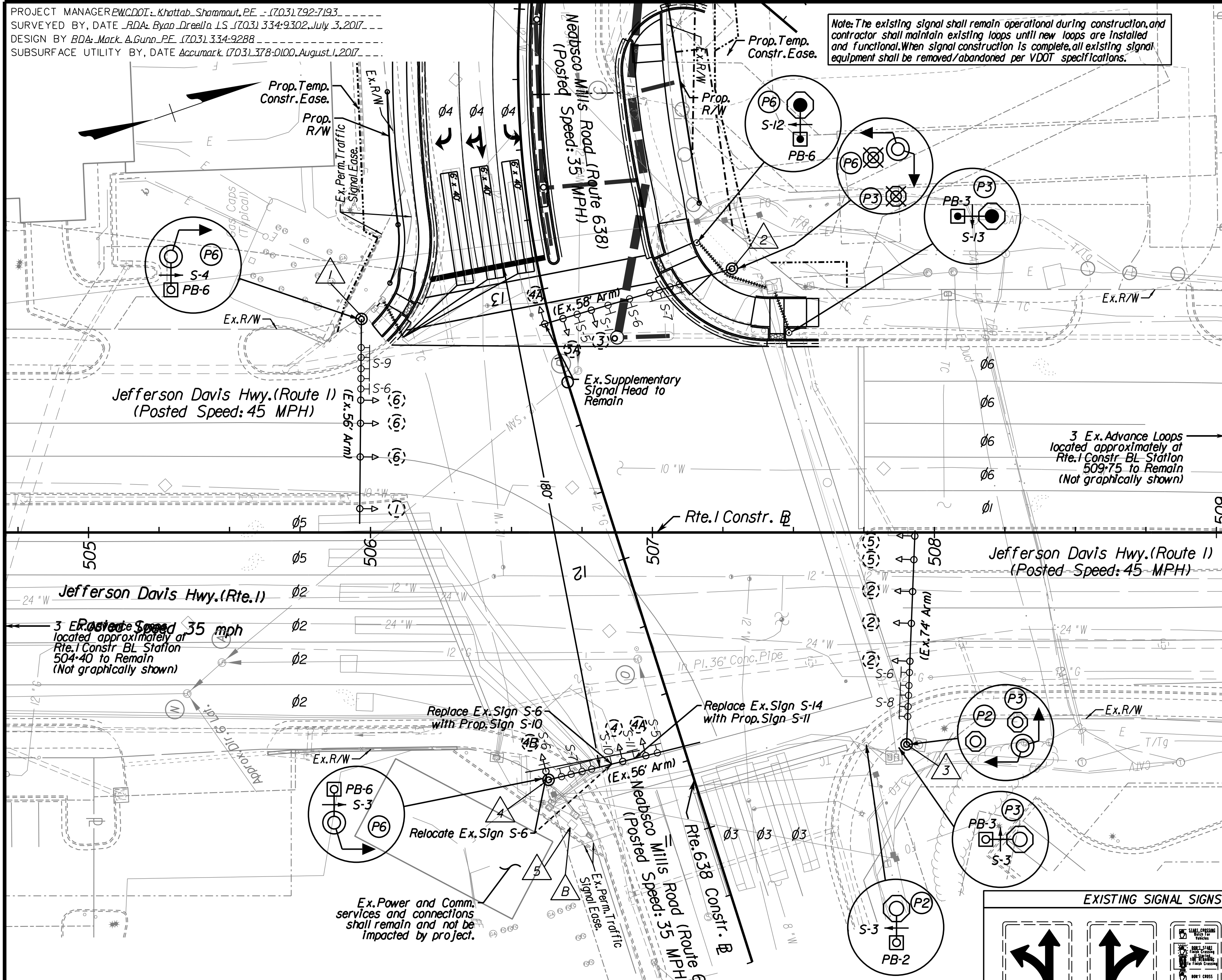
Prince William County, Virginia

DATE: April 2019

VDOT PROJECT NO. 0638-076-209, CS01 PWCDOT PROJECT NO. SPR2018-00271

SHEET NO. 14

PROJECT MANAGER: EWC/DOT - Khattab, Shammout, P.E. - (703) 792-7193
 SURVEYED BY, DATE: RDA: Bryan Drea/LS (703) 334-9302, July 3, 2017
 DESIGN BY: RDA: Mack & Gunn, P.E. (703) 334-9288
 SUBSURFACE UTILITY BY, DATE: Accurack (703) 378-0100, August 1, 2017



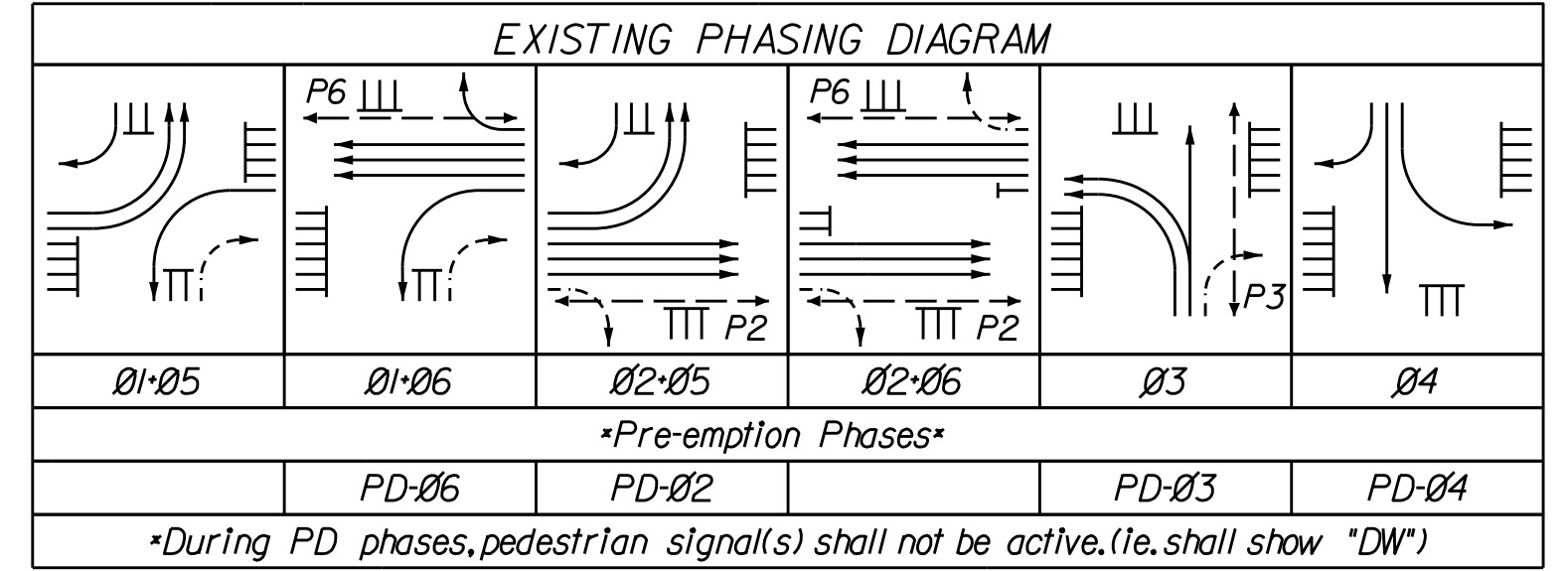
Note: The existing signal shall remain operational during construction, and contractor shall maintain existing loops until new loops are installed and functional. When signal construction is complete, all existing signal equipment shall be removed/abandoned per VDOT specifications.

Signal Pole & Controller Legend
 (ALL DIMENSIONS ARE TO CENTER OF POLE)

- 1 Ex. S'd Mast Arm Pole (MP-1) with Ex. Foundation. Ex. 5'2" Mast Arm 90° Angle to Jefferson Davis Hwy. Signal Heads Placement: Ex. to Remain Sign Placement: Ex. to Remain
- 2 Ex. S'd Mast Arm Pole (MP-1) with Ex. Foundation. Ex. 6'8" Mast Arm 270° Angle to Jefferson Davis Hwy. Signal Heads Placement: Ex. to Remain Sign Placement: Ex. to Remain
- 3 Ex. S'd Mast Arm Pole (MP-1) with Ex. Foundation. Ex. 7'4" Mast Arm 270° Angle to Jefferson Davis Hwy. Signal Heads Placement: Ex. to Remain Sign Placement: Ex. to Remain
- 4 Ex. S'd Mast Arm Pole (MP-1) with Ex. Foundation. Ex. 5'6" Mast Arm 90° Angle to Neabsco Mills Road. Signal Heads Placement: Ex. to Remain Sign Placement: Relocate Ex. S-6 to Pole below Signal Head 23' 3" Ex. to Remain
- 5 Ex. Controller Cabinet and Foundation to Remain
- B Existing Power Source. Coordination with VDOT and local power company required. Contractor shall provide local power company load diagram/load letter at no additional cost to the project.

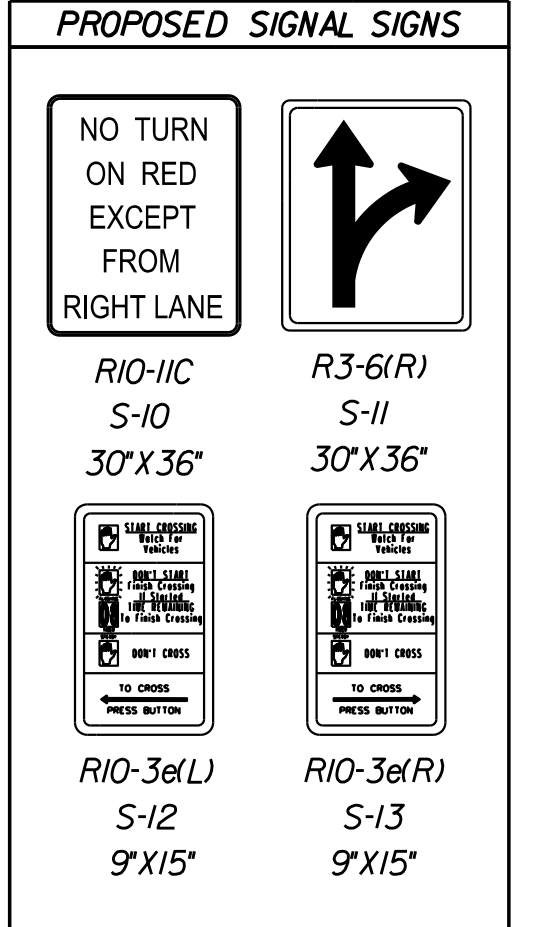
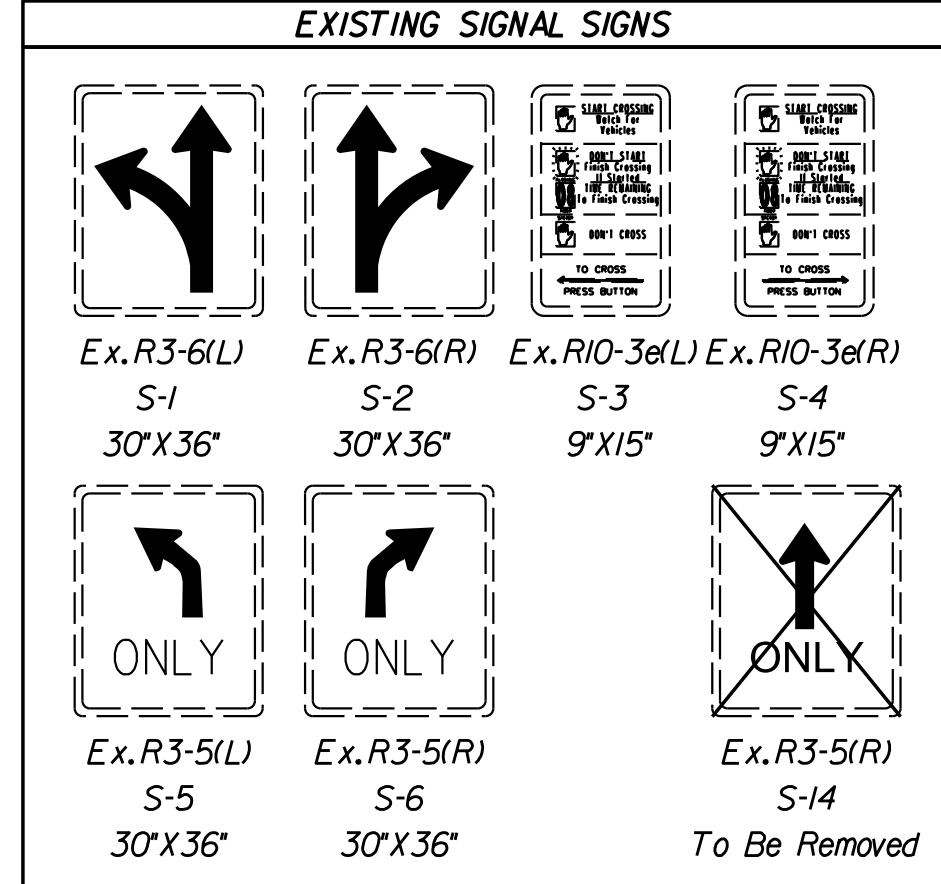
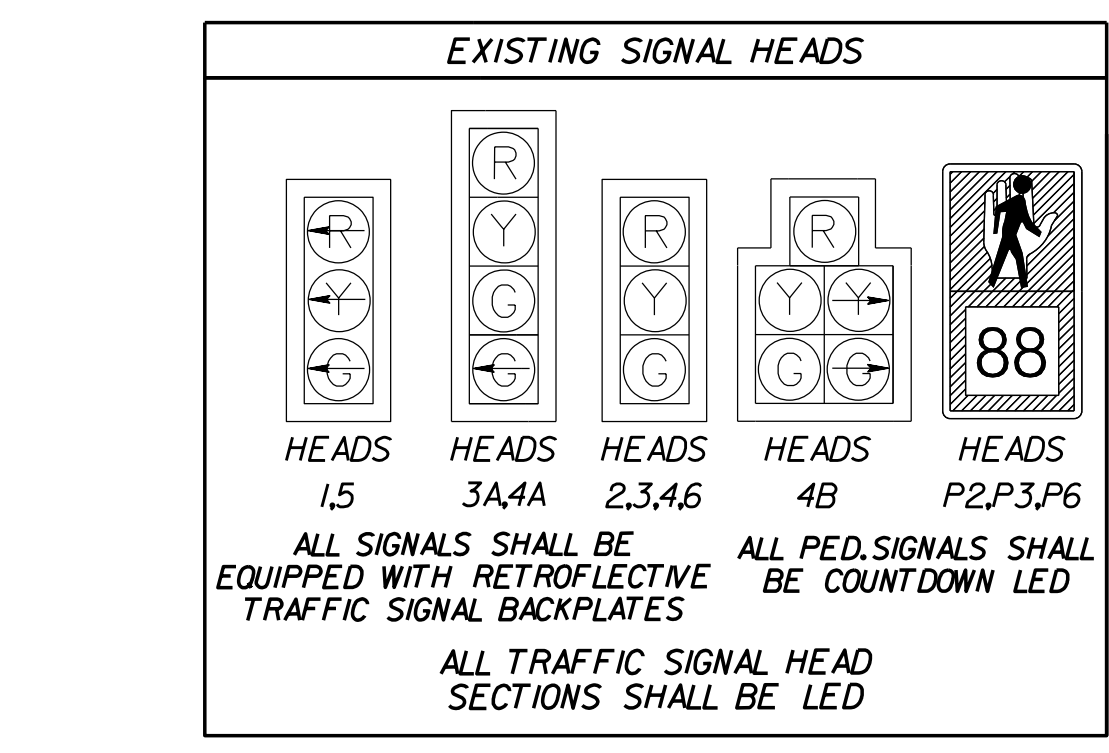
REVISED	STATE	ROUTE	STATE	VDOT PROJECT NO.	SHEET NO.
	VA	638		0638-076-209	14(1)
					PE/01 CS/01 RW/201

Note to Contractor:
 All EXISTING signal equipment at the existing Intersection shall be completely removed and the ground shall be restored. Existing conduits shall be completely emptied, abandoned and capped per VDOT specifications. Existing signal foundations shall be removed up to a depth of 3-feet and the ground shall be restored. Contractor may utilize existing signal infrastructure during TMP/SOC phases where applicable, but once the need for the signal ceases, all equipment shall be removed and/or abandoned per VDOT specifications. All costs associated with the aforementioned items shall be included as part of the NS REMOVE SIGNAL EQUIPMENT lump-sum quantity.



CABLE AND CONDUIT RUNS
 EGC (Electric Grounding Conductor)
 M (Metal Conduit)
 S (Shielded Conductor)

TO BE PROVIDED WITH FINAL SUBMISSION



- Notes:
- For Power Service Connection details, See General Notes, Sheet 14.
 - The Contractor shall be responsible for providing and maintaining power to the controller at all times. The Contractor is responsible for any costs related to providing power to the traffic signal.
 - Cost to relocate impacted utilities caused by signal installation shall be incidental to signal construction.
 - All signal heads and signal mast arms shall have a minimum of 10' horizontal and vertical clearance from any nearby aerial utilities. Contractor shall follow NESC Guidelines.
 - The Contractor shall be responsible for providing communication to the controller. The Contractor is responsible for any costs associated with providing communication to the traffic signal. See General Notes on Sheet 14 for details.
 - Ped. Heads shall be installed and oriented so that pedestrians in the crosswalk or ramp area do not have an obstructed view of the Ped. Head.
 - See Pavement Marking and Signage Plan for signage/pavement marking details.
 - Unless noted otherwise, all Junction Boxes shall be S'd JB-S2.

Note: The Contractor shall take possession, maintain and be solely responsible for the costs for any damage done to the traffic signal during construction. The project shall have a qualified crew on-call at all times for any issues that may arise and need to be fixed immediately. No separate payment will be made for providing on-call signal crew.

PREEMPTION SENSORS

(Proposed)
 PD-02 to 06

Police & Fire Dept. Emergency Preemption Sensors

Emergency Vehicle Pre-emption (EVP) Notes:
 Prince William County will maintain the EVP System. VDOT is not responsible for the installation or maintenance of the EVP System.

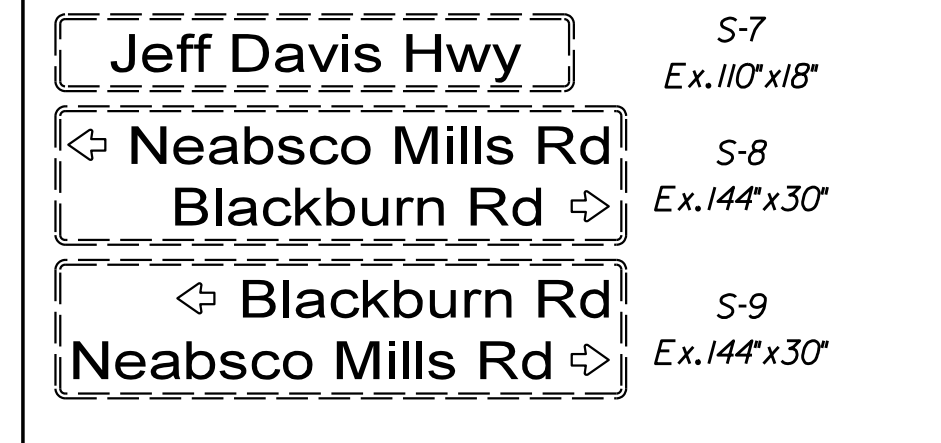
COLOR SEQUENCE CHART

PHASE	1	2	3	4	5	6	1-5	1-6	2-5	2-6	FLASH
SIGNAL	R/W	R/W	R/W	R/W	R/W	R/W	R/W	R/W	R/W	R/W	FLASH
1											R
2		G							G	G	Y
3			G								R
3A			G								R
4				G							R
4A				G							R
4B				G/G	R/G		R/G		R/G		R
5											R
6											Y
P2											BLANK
P3											BLANK
P6											BLANK

NOTE: BLANK SPACES REPRESENT A RED DISPLAY.
 *WALK INDICATION DISPLAYED AFTER PEDESTRIAN CALL IS SERVICED; OTHERWISE "DON'T WALK" INDICATION IS DISPLAYED.

INITIAL TIMING CHART

PHASE	1	2	3	4	5	6	7	8
MOVEMENT	SBL	NB	WB	EB	NBL	SB		
PHASE ON	X	X	X	X	X	X	X	X
PHASE OFF								
INTERVAL	PHASE TIMINGS							
MIN GR	5.0	20.0	5.0	5.0	5.0	20.0		
PASSAGE	3.0	5.0	3.0	3.0	3.0	5.0		
AMBER	4.5	5.5	4.5	4.5	4.5	5.5		
RED	4.0	1.0	5.0	5.0	3.5	1.0		
MAX 1	20.0	95.0	24.0	22.0	20.0	95.0		
MAX 2	25.0	77.0	22.0	32.0	25.0	77.0		
MIN GAP	3.0	5.0	3.0	3.0	3.0	5.0		
TIME BEFORE REDUCTION	0.0	0.0	0.0	0.0	0.0	0.0		
TIME TO REDUCE	0.0	0.0	0.0	0.0	0.0	0.0		
PED WALK		7.0	9.0			7.0		
PED CLEARANCE		27.0	95.0			27.0		
MODE	NON-LOCK	MIN-RECALL	NON-LOCK	NON-LOCK	NON-LOCK	MIN-RECALL		



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

VIRGINIA DEPARTMENT OF TRANSPORTATION
 REVIEW OF WORKING DRAWINGS

WORKING DRAWINGS HAVE BEEN REVIEWED IN ACCORDANCE WITH SECTION 105.2 OF THE VDOT ROAD & BRIDGE SPECIFICATIONS WITH THE FOLLOWING COMMENT:

REJECTED, CORRECT AND RESUBMIT

PRELIMINARY SUBMITTAL ACCEPTED

REVIEWED BY: _____ DATE: _____

Preliminary Submittal acceptance is valid for one year from date above.

TRAFFIC SIGNAL MODIFICATION
 Jefferson Davis Highway (US Route 1) at Neabsco Mills Road (Route 638)

Prince William County, Virginia

SCALE: 0 25' 50'

DATE: April 2019

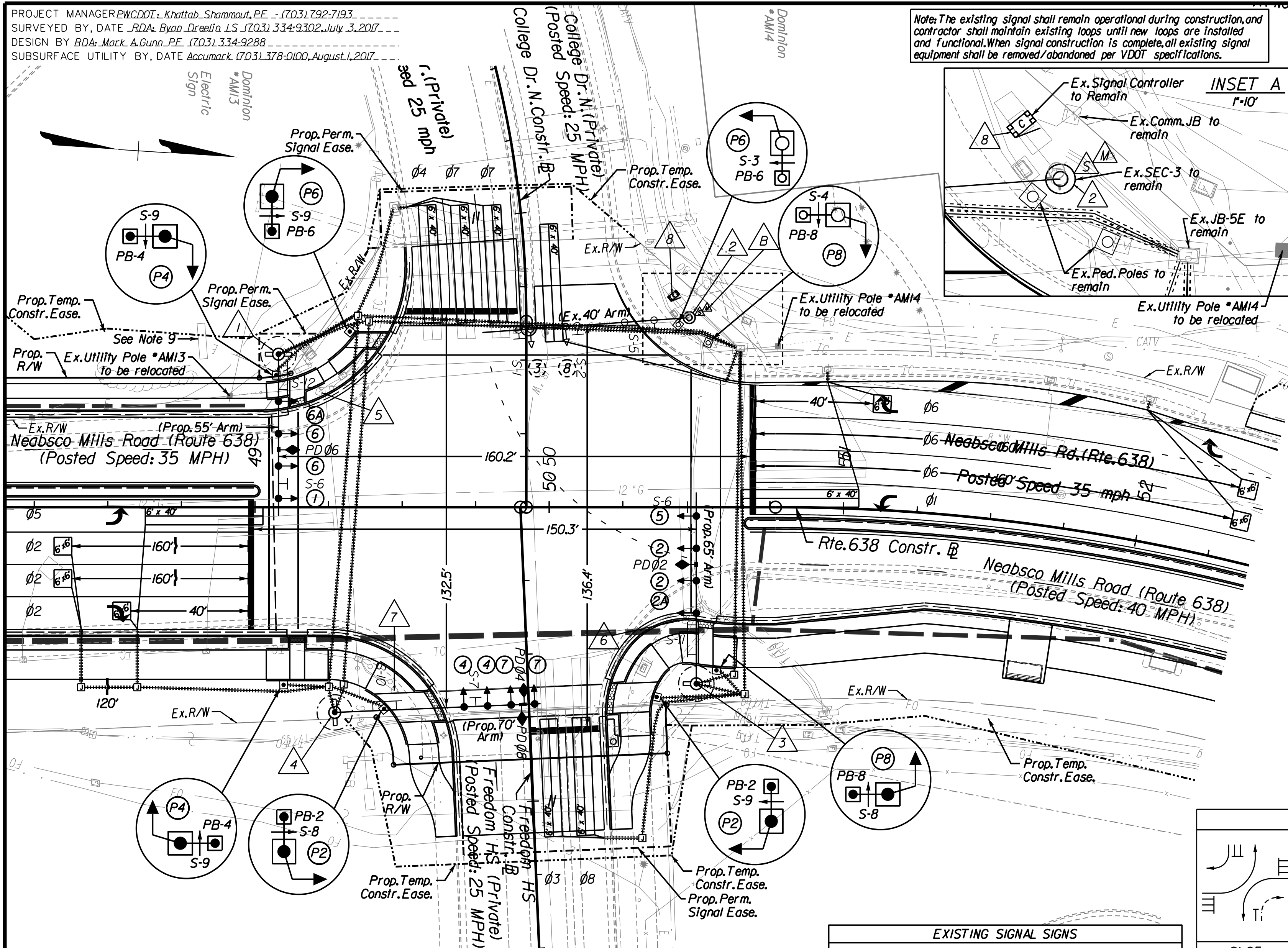
VDOT PROJECT NO. 0638-076-209, CS/01
 PW/001 PROJECT NO. SPR2018-00271

SHEET NO. 14(1)

THESE PLANS ARE UNFINISHED AND UNAPPROVED AND ARE NOT TO BE USED FOR ANY TYPE OF CONSTRUCTION.

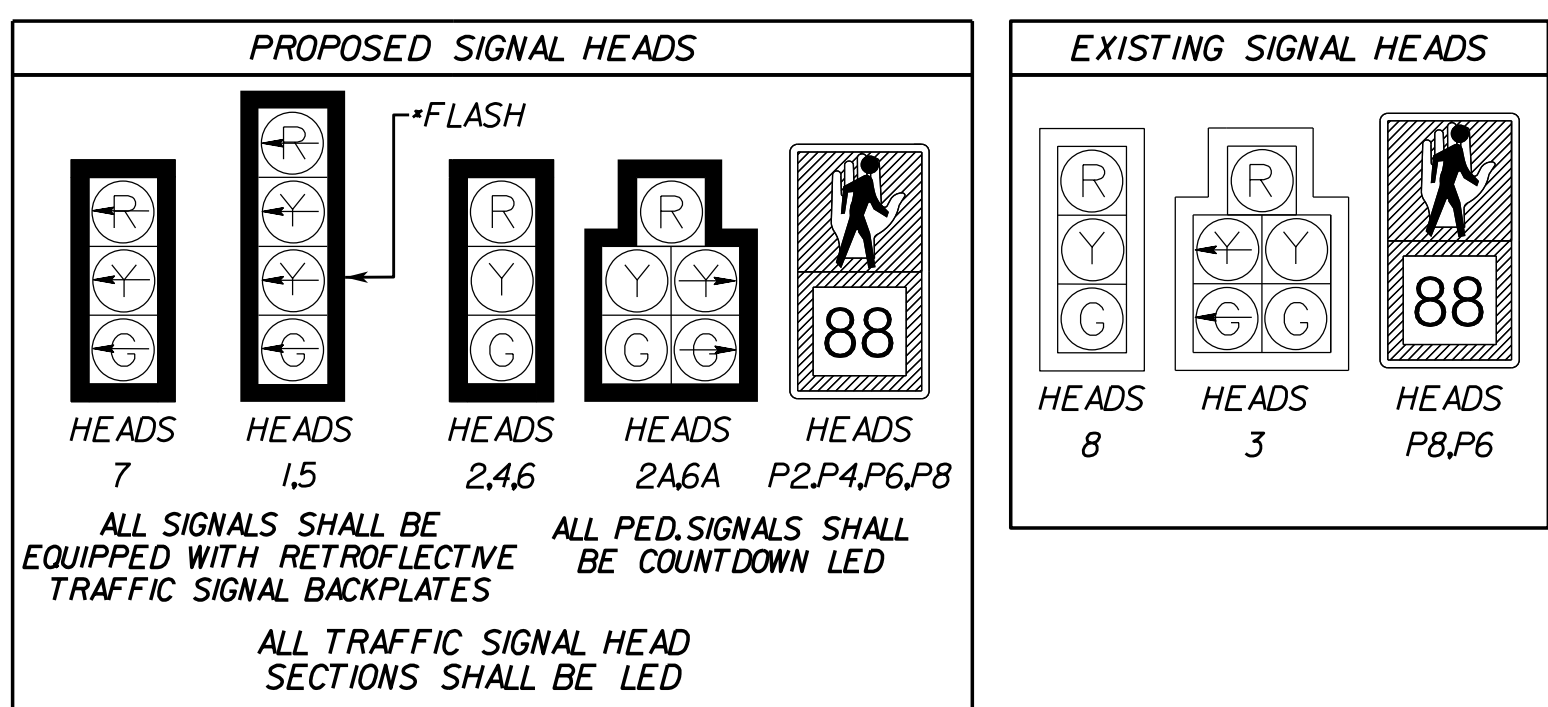
R.W. PHASE PLANS

Rinker Design Associates, P.C.
 10000 Lee Blvd, Suite 1000
 Fairfax, VA 22031
 (703) 261-1000
 www.rinker.com

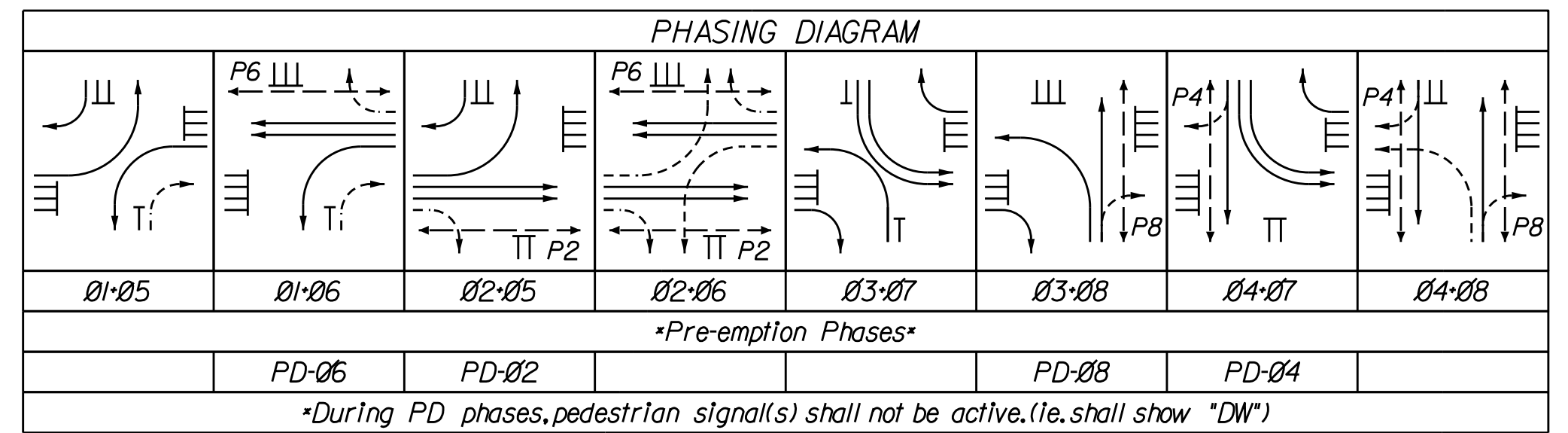


Signal Pole & Controller Legend
(ALL DIMENSIONS ARE TO CENTER OF POLE)

- The MP-3 (and Mast Arms) shall be designed to meet any NESC utility clearance requirements.
- Sr'd Mast Arm Pole (MP-3) with Sr'd PF-8 Foundation 52' Left of Rte.638 Constr. Baseline, Sta. 49+08 55' Mast Arm 90° Angle to Rte.638 Constr. Baseline Signal Head Placement: 16'-27", 38", 49" Sign Placement (Center): 8', 44" Pre-emption: 32.5' Top of Foundation Elev.: Note Roadway is super-elevated. Additional height shall be added to foundation to ensure mast arm meets height requirements across entire roadway Measured Lateral Distance (Lateral Offset Requirement Met: Yes) Rte. 638: 52' College Dr. N: 84.2'
- Ex. Sr'd Mast Arm Pole (MP-1) with Ex. Foundation, Ex. 55' Mast Arm 270° Angle to College Drive Signal Heads Placement, Ex. to Remain Sign Placement, Ex. to Remain
- Sr'd Mast Arm Pole (MP-3) with Sr'd PF-8 Foundation 60' Right of Rte.638 Constr. Baseline, Sta. 50+50 65' Mast Arm 270° Angle to Freedom HS Constr. Baseline Signal Head Placement: 24'-35", 46.57" Sign Placement (Center): 15', 60" Pre-emption: 40.5' Measured Lateral Distance (Lateral Offset Requirement Met: Yes) Rte. 638: 52' Freedom HS: 57.2'
- Sr'd Mast Arm Pole (MP-3) with Sr'd PF-8 Foundation 66' Left of Freedom HS Constr. Baseline, Sta. 10+67 70' Mast Arm 270° Angle to Freedom HS Constr. Baseline Signal Head Placement: 44'-52', 60', 68" Sign Placement (Center): 17', 48" Pre-emption: 63.5, 64.5' Measured Lateral Distance (Lateral Offset Requirement Met: Yes) Rte. 638: 62' Freedom HS: 66'
- Ex. Sr'd Mast Arm Pole (MP-1) with Ex. Foundation, Ex. 56' Mast Arm 90° Angle to Neabsco Mills Road TO BE REMOVED
- Ex. Sr'd Mast Arm Pole (MP-1) with Ex. Foundation, Ex. 40' Mast Arm 270° Angle to Neabsco Mills Road TO BE REMOVED
- Ex. Sr'd Mast Arm Pole (MP-1) with Ex. Foundation, Ex. 55' Mast Arm 270° Angle to Freedom HS TO BE REMOVED
- Ex. Controller Cabinet and Foundation to Remain
- Existing Power Source. Coordination with VDOT and local power company required. Contractor shall provide local power company load diagram/load letter at no additional cost to the project.



CABLE AND CONDUIT RUNS
EGC (Electric Grounding Conductor)
M (Metal Conduit)
S (Shielded Conductor)
TO BE PROVIDED WITH FINAL SUBMISSION



INITIAL TIMING CHART

PHASE	1	2	3	4	5	6	7	8
MOVEMENT	NBL	SB	WBL	EB	SBL	NB	EBL	WB
PHASE ON	X	X	X	X	X	X	X	X
PHASE OFF								
INTERVAL	PHASE TIMINGS							
MIN GR	4.0	10.0	4.0	4.0	4.0	10.0	4.0	4.0
PASSAGE	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
YELLOW	4.5	4.5	3.0	3.0	4.5	4.5	3.0	3.0
RED	3.5	3.5	3.0	3.0	3.5	3.5	3.0	3.0
MAX 1	20.0	55.0	20.0	30.0	20.0	55.0	20.0	30.0
MAX 2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
MIN GAP	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
TIME BEFORE REDUCTION	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TIME TO REDUCE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
PED WALK	0.0	7.0	0.0	7.0	0.0	7.0	0.0	7.0
PED CLEARANCE	0.0	23.0	0.0	19.0	0.0	23.0	0.0	19.0
MODE	NON-LOCK	MIN RECALL	NON-LOCK	NON-LOCK	NON-LOCK	MIN RECALL	NON-LOCK	NON-LOCK

- Notes:**
- For Power Service Connection details, See General Notes, Sheet 14.
 - The Contractor shall be responsible for providing and maintaining power to the controller at all times. The Contractor is responsible for any costs related to providing power to the traffic signal.
 - Cost to relocate impacted utilities caused by signal installation shall be incidental to signal construction.
 - All signal heads and signal mast arms shall have a minimum of 10' horizontal and vertical clearance from any nearby aerial utilities. Contractor shall follow NESC Guidelines.
 - The Contractor shall be responsible for providing communication to the controller. The Contractor is responsible for any costs associated with providing communication to the traffic signal. See General Notes on Sheet 14 for details.
 - Ped. Heads shall be installed and oriented so that pedestrians in the crosswalk or ramp area do not have an obstructed view of the Ped. Head.
 - See Pavement Marking and Signage Plan for signage/pavement marking details.
 - Unless noted otherwise, all Junction Boxes shall be Sr'd JB-52.
 - The Project SHALL not impact sign. Electrical Service shall be maintained to the sign's lighting features at no additional cost to the project. If electrical service needs to be relocated, it shall be relocated by the Contractor at no additional cost to the project.

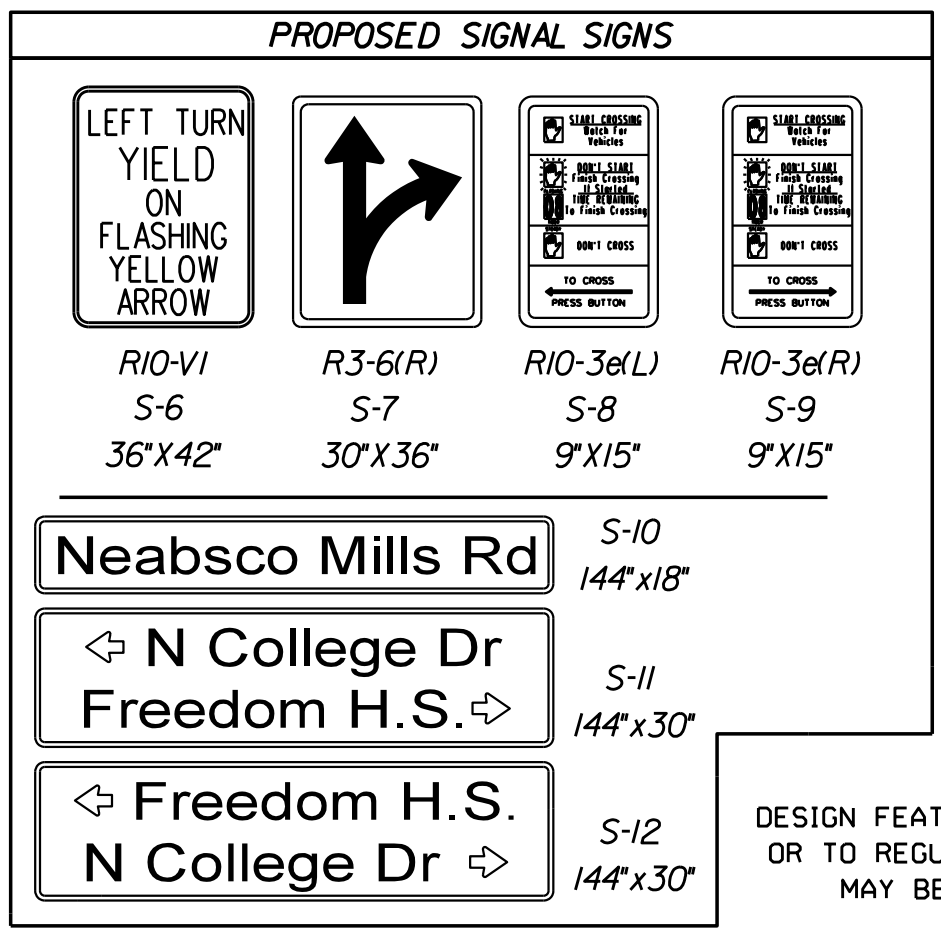
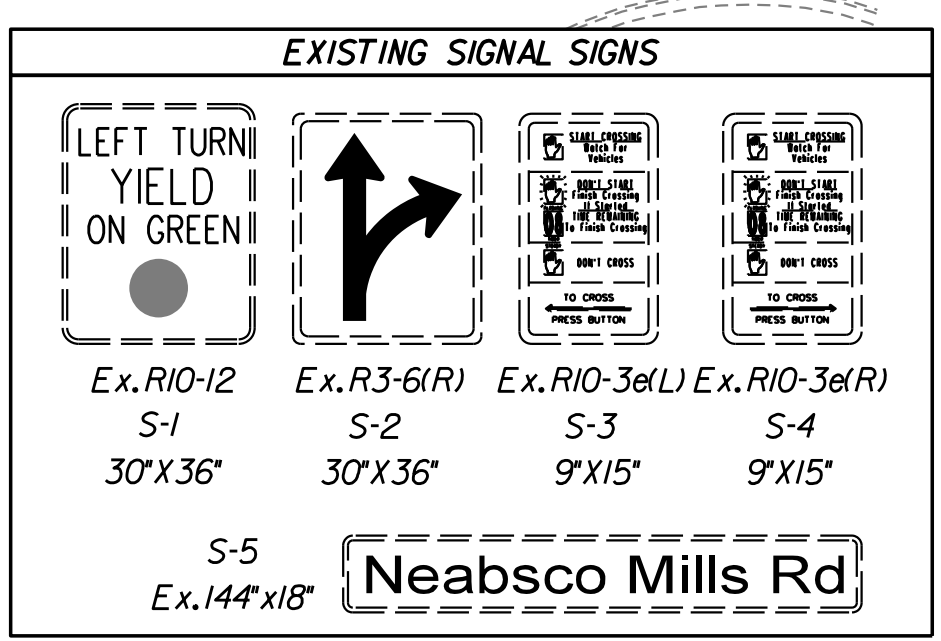
(Proposed) PREEMPTION SENSORS
Police & Fire Dept. Emergency Preemption Sensors
PD-02 to 08
Emergency Vehicle Pre-emption (EVP) Notes:
Prince William County will maintain the EVP System. VDOT is not responsible for the installation or maintenance of the EVP System.

Note: The Contractor shall take possession, maintain and be solely responsible for the costs for any damage done to the traffic signal during construction. The project shall have a qualified crew on-call at all times for any issues that may arise and need to be fixed immediately. No separate payment will be made for providing on-call signal crew.

COLOR SEQUENCE CHART

PHASE	1	2	3	4	5	6	7	8	1-5	1-6	2-5	2-6	3-7	3-8	4-7	4-8	FLASH
SIGNAL	R/W	R/W	R/W	R/W	R/W	R/W	R/W	R/W	R/W	R/W	R/W	R/W	R/W	R/W	R/W	R/W	FLASH
1	G	←FYA							←G	←G	←FYA	←FYA					←Y
2		G									G	G					Y
2A		G/G									G	G	R/G	R/G			Y
3			R/G										R/G	G/G			R
4				G										G	G		R
5					←G	←FYA			←G	←FYA	←G	←FYA					←Y
6						G				G	G	G					Y
6A						G/G				G	G	G	R/G	R/G			Y
7							←G						←G	←G			←R
8								G						G	G		R
P2		*WALK									*WALK	*WALK					BLANK
P4			*WALK										*WALK	*WALK			BLANK
P6				*WALK						*WALK	*WALK						BLANK
P8					*WALK								*WALK	*WALK			BLANK

NOTE: BLANK SPACES REPRESENT A RED DISPLAY.
*WALK INDICATION DISPLAYED AFTER PEDESTRIAN CALL IS SERVICED; OTHERWISE "DON'T WALK" INDICATION IS DISPLAYED.



VIRGINIA DEPARTMENT OF TRANSPORTATION
REVIEW OF WORKING DRAWINGS
WORKING DRAWINGS HAVE BEEN REVIEWED IN ACCORDANCE WITH SECTION 105.2 OF THE VDOT ROAD & BRIDGE SPECIFICATIONS WITH THE FOLLOWING COMMENT:
 REJECTED, CORRECT AND RESUBMIT
 PRELIMINARY SUBMITTAL ACCEPTED
REVIEWED BY: _____ DATE: _____
Preliminary Submittal acceptance is valid for one year from date above.

TRAFFIC SIGNAL MODIFICATION
Neabsco Mills Road (Route 638) at Freedom H.S. (Private)
Prince William County, Virginia
SCALE: 0 25' 50'
DATE: April 2019
VDOT PROJECT NO. 0638-076-209, C501
PWDDOT PROJECT NO. SPR2018-00271
SHEET NO. 14(2)

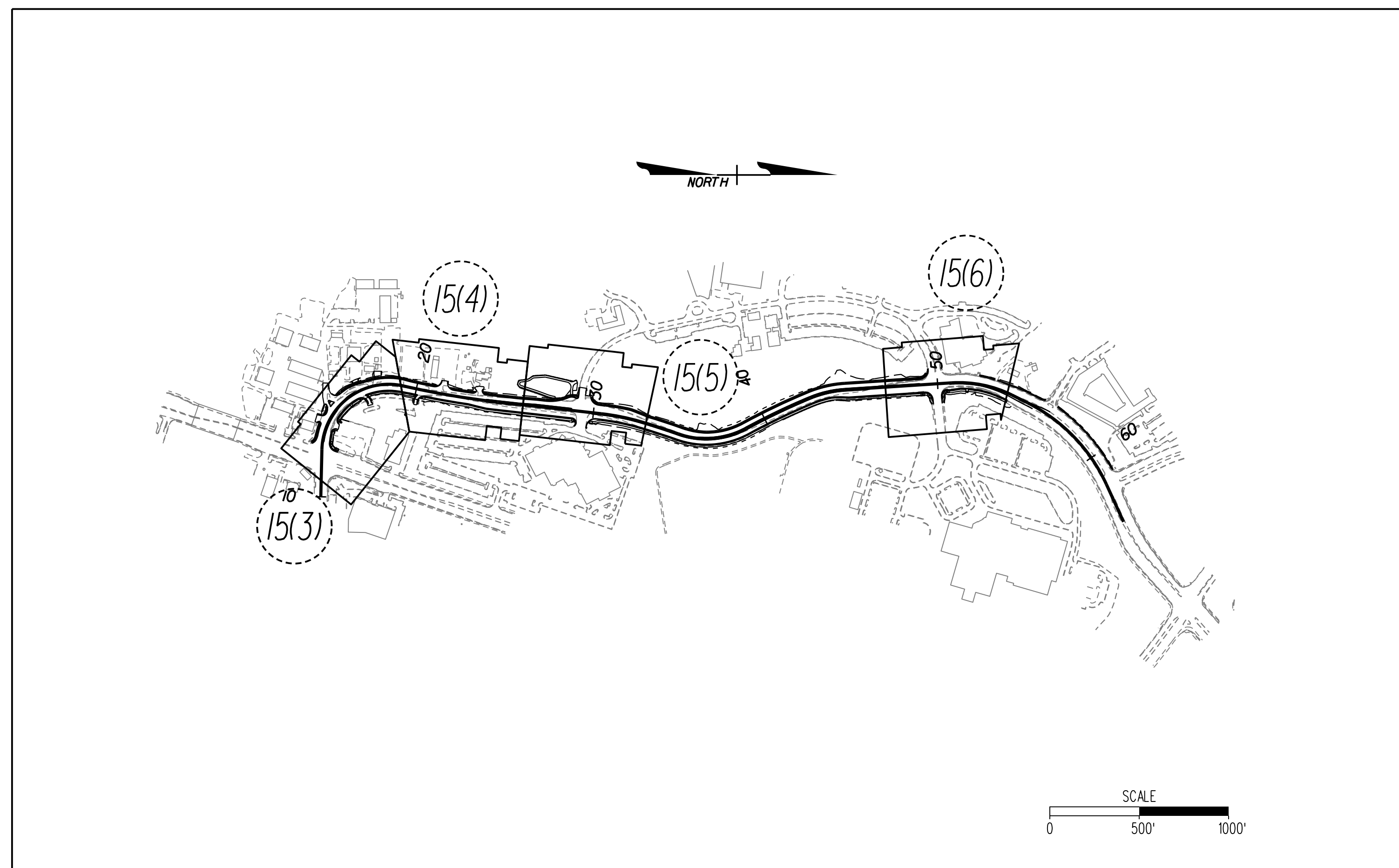
PROJECT MANAGER: EWCDOT - Khattab, Shammaul, PE - (703) 792-7193
 SURVEYED BY, DATE: RDA: Bryan Dreel/a, LS (703) 334-9302, July 3, 2017
 DESIGN BY: RDA: Mack, A. Gunn, PE (703) 334-9288
 SUBSURFACE UTILITY BY, DATE: Accurack (703) 378-0100, August 1, 2017

Conduit for Roadway Lighting Plan Index of Sheets and General Notes

REVISED	STATE	STATE		SHEET NO.
	ROUTE	VDOT PROJECT NO.		
	VA.	638	0638-076-209 PE101 CS01 RW201	15
DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT				
VDOT (Division) or Co. Name (Location), Virginia (TECHNICAL DISCIPLINE)				

General Notes

- Conduits shown on these plans are diagrammatic and actual conduit runs shall conform to the field conditions.
- Certain utilities within the vicinity of this Project area are shown on the plans. The utilities shown are not guaranteed to be complete or accurately located. The Contractor is responsible for locating all existing utilities and lighting systems before proceeding with the work.
- At locations where proposed conduit shall cross existing conduit, the Contractor shall hand-dig the trenches and shall take adequate care not to damage the existing conduit or the contents thereof. These conditions shall apply at all such conduit crossings except those locations where proposed conduit will cross conduit designed to be abandoned.
- Conduits shall be installed with large radius offsets (5' minimum radius) to bypass drainage inlets, manholes, and other obstacles.
- Conduits shall be installed a minimum of 2 ft. behind guardrail posts.
- Conduits shall be installed a minimum of 5 ft. clear of shoulder edge when no guardrail is installed.
- All underground conduits shall be sloped to drain to junction boxes or manholes. If this cannot be accomplished, they shall be provided with drainage tees at the low points of conduit runs.
- The Contractor shall provide expansion couplings at all extension joints on structures or as designated by the Engineer.
- Plans shall be in accordance with the most current VDOT edition of the Road and Bridge Standards and Specifications and Dominion Virginia Power unless otherwise noted.
- The Contractor shall furnish and install an equipment grounding conductor in all nonmetallic conduit in accordance with Section 700 of the Specifications. The minimum equipment grounding conductor size shall be the same size as the largest conductor indicated on the plans for each conduit run.
- Ground rods shall be connected to the ground wire utilizing an exothermic weld. All cost of this item shall be included in the bid price for other items. No separate measurement will be made.
- Locations of existing junction boxes and manholes shown on the plans are approximate.
- Areas around cabinets, junction boxes, and manholes on slopes shall be graded as approved by the Engineer.
- The Contractor shall be responsible to return all disturbed areas and fencing to their original state at the completion of all work. Disturbed areas shall be seeded in accordance with Section 603 of the Specifications and all cost for this item shall be included in the price bid for other bid items. No separate measurements will be made.
- Separate contracts will be ongoing within the limits of the project. The Contractor shall not hinder the work being performed by other contractors and shall cooperate and coordinate the work of this project with the other contractors.



ESTIMATED QUANTITIES

ITEM DESCRIPTION	TO BE INSTALLED BY OTHERS								PROPOSED		
	6BW LED LUMINAIRE (SL-65)	250W HPS DYP LUMINAIRE (SL-25)	400W HPS DYP LUMINAIRE (SL-40)	12' MAST ARM	14' MAST ARM	16' MAST ARM	DVE CONCRETE POLE	STD J-B-S3	2" CONDUIT	2" BORED CONDUIT	EC-TYPE 1
UNIT	EA	EA	EA	EA	EA	EA	EA	EA	LF	LF	LF
Sheet 15(3)	-	3	-	-	-	-	3	4	113	-	-
Sheet 15(4)	-	1	-	-	-	-	1	1	-	-	-
Sheet 15(5)	-	2	-	-	-	-	2	3	97	-	-
Sheet 15(6)	-	4	-	-	-	-	4	4	510	-	-
TOTAL	-	10	-	-	-	-	10	12	720	-	-

ROADWAY LIGHTING PLAN INDEX OF SHEETS		
Sheet No.	15	Index of Sheets and General Notes
Sheet No.	15(3)	Roadway Lighting Conduit Plan
Sheet No.	15(4)	Roadway Lighting Conduit Plan
Sheet No.	15(5)	Roadway Lighting Conduit Plan
Sheet No.	15(6)	Roadway Lighting Conduit Plan

VDOT PROJECT NO. 0638-076-209, CS01 PWCDOT PROJECT NO. SPR2018-00271	SHEET NO. 15
---	-----------------

THESE PLANS ARE UNFINISHED AND UNAPPROVED AND ARE NOT TO BE USED FOR ANY TYPE OF CONSTRUCTION.

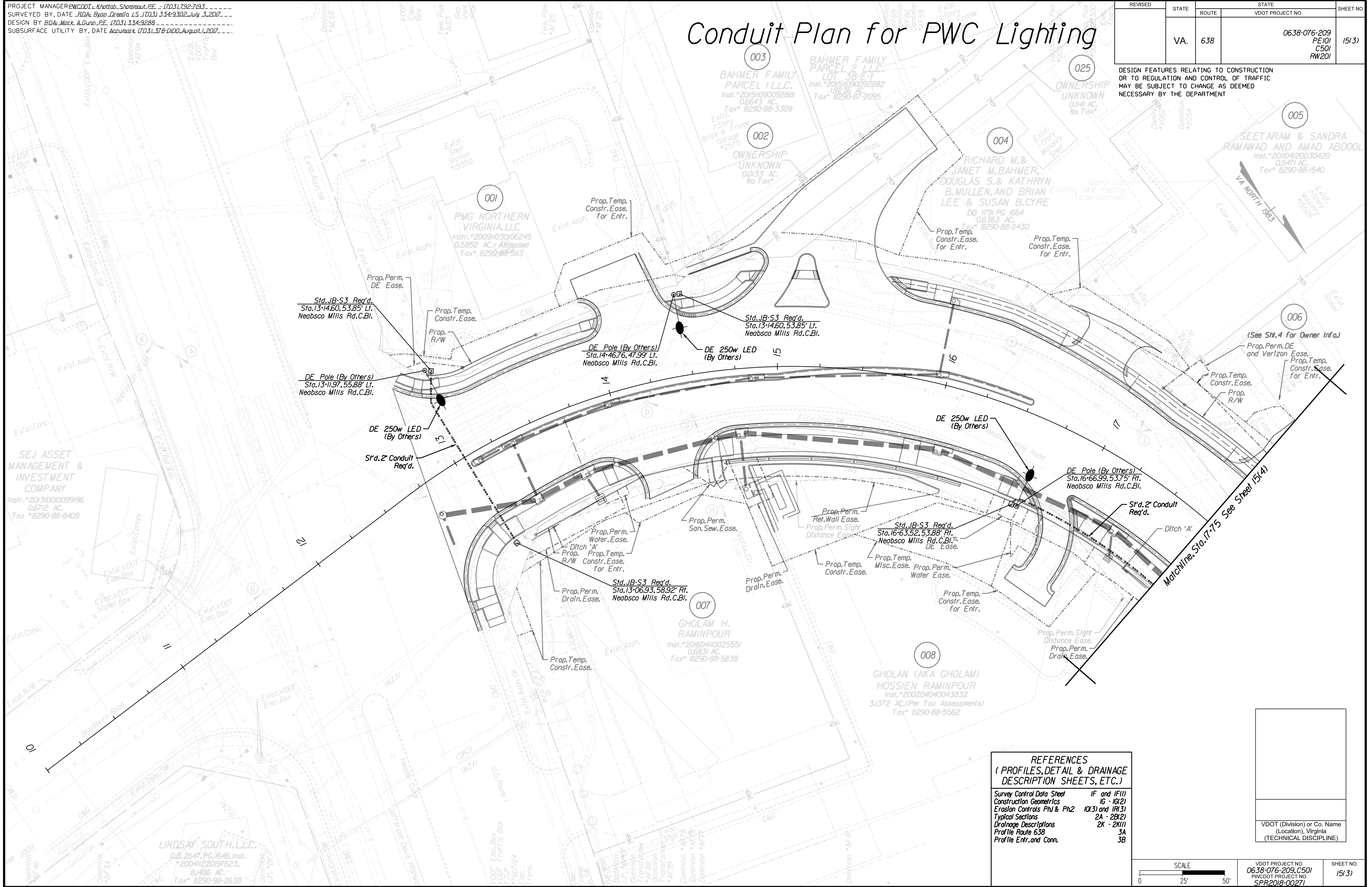
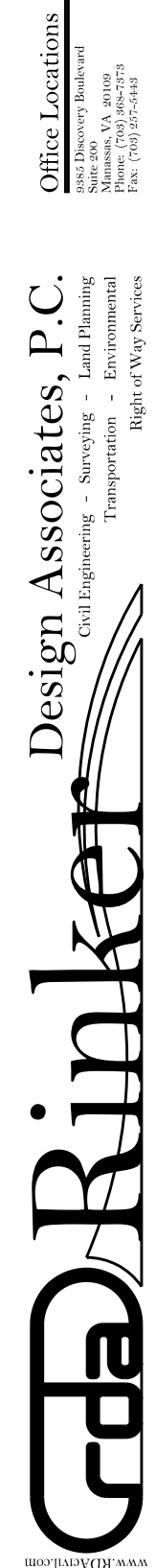
R.W. PHASE PLANS

PROJECT MANAGER: *EWCDOT - Khattab, Shammaul, P.E. (703) 792-7193*
 SURVEYED BY, DATE: *RDA: Bryan Drea'la, L.S. (703) 334-9302, July 3, 2017*
 DESIGN BY: *RDA: Mack & Gunn, P.E. (703) 334-9288*
 SUBSURFACE UTILITY BY, DATE: *Accumark (703) 378-0100, August 1, 2017*

Conduit Plan for PWC Lighting

REVISED	STATE	ROUTE	STATE	VDOT PROJECT NO.	SHEET NO.
	VA.	638		0638-076-209 PE101 CS01 RW201	15(3)

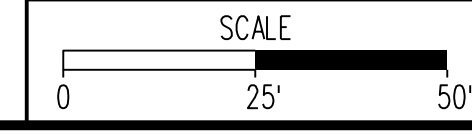
DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT



REFERENCES
 (PROFILES, DETAIL & DRAINAGE DESCRIPTION SHEETS, ETC.)

Survey Control Data Sheet	IF and IF(1)
Construction Geometrics	16 - 10(2)
Erosion Controls Ph1 & Ph2	10(3) and 10(3)
Typical Sections	2A - 20(2)
Drainage Descriptions	2K - 20(1)
Profile Route 638	3A
Profile Entr. and Conn.	3B

VDOT (Division) or Co. Name (Location), Virginia (TECHNICAL DISCIPLINE)



VDOT PROJECT NO. 0638-076-209, C501 PWCDOT PROJECT NO. SPR2018-00271	SHEET NO. 15(3)
---	--------------------

THESE PLANS ARE UNFINISHED AND UNAPPROVED AND ARE NOT TO BE USED FOR ANY TYPE OF CONSTRUCTION.

R.W. PHASE PLANS

Design Associates, P.C.
Civil Engineering, Surveying, Land Planning,
Transportation, Environmental,
Right of Way Services

PROJECT MANAGER: EWCDOT - Khattab, Shammaul, PE - (703) 792-7193
SURVEYED BY, DATE: RDA: Bryan Drea'lla, LS (703) 334-9302, July 3, 2017
DESIGN BY: RDA: Mack, A. Gunn, PE (703) 334-9288
SUBSURFACE UTILITY BY, DATE: Accurmark (703) 378-0100, August 1, 2017

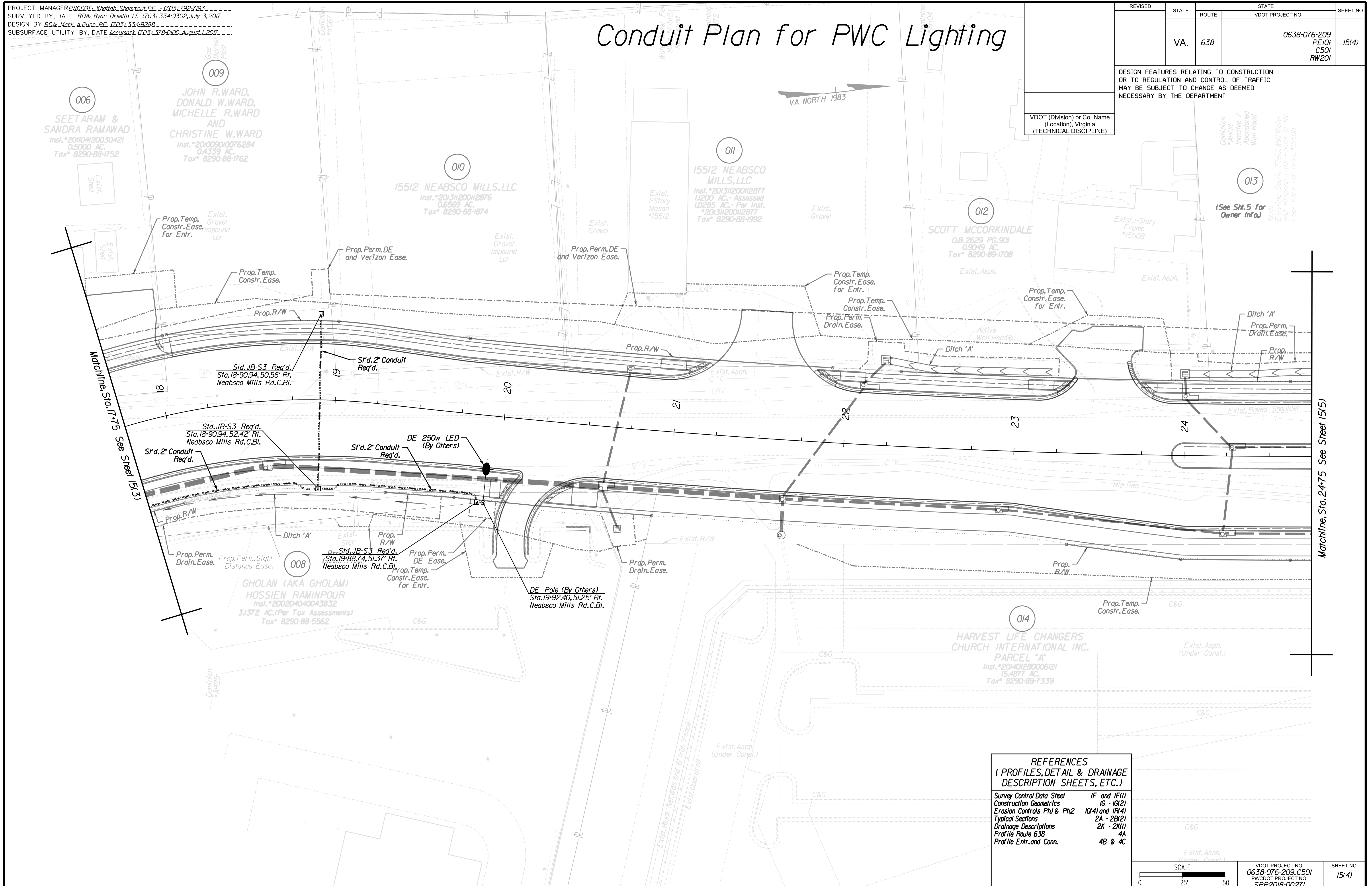
Conduit Plan for PWC Lighting

REVISED	STATE	ROUTE	STATE	VDOT PROJECT NO.	SHEET NO.
	VA.	638		0638-076-209 PE/01 CS/01 RW/201	15(4)

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

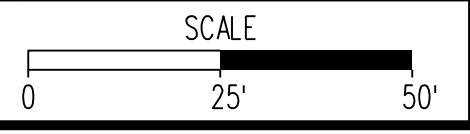
VDOT (Division) or Co. Name
(Location), Virginia
(TECHNICAL DISCIPLINE)

013
(See SH. 5 for Owner Info)
Note: Existing Storm Flood Well Water and Proposed Tank Found on the Rear Yard for Bldg. #5508



REFERENCES
(PROFILES, DETAIL & DRAINAGE DESCRIPTION SHEETS, ETC.)

Survey Control Data Sheet	IF and IF(1)
Construction Geometrics	16 - 10(2)
Erosion Controls Ph1 & Ph2	10(4) and 10(4)
Typical Sections	2A - 2B(2)
Drainage Descriptions	2K - 2K(1)
Profile Route 638	4A
Profile Entr. and Conn.	4B & 4C

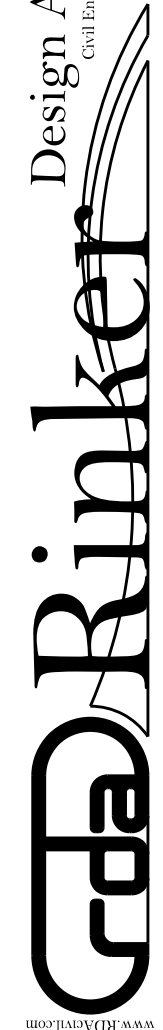


VDOT PROJECT NO. 0638-076-209, CS/01 PWCDOT PROJECT NO. SPR2018-00271	SHEET NO. 15(4)
--	--------------------

THESE PLANS ARE UNFINISHED AND UNAPPROVED AND ARE NOT TO BE USED FOR ANY TYPE OF CONSTRUCTION.

R.W. PHASE PLANS

Design Associates, P.C.
Civil Engineering, Surveying, Land Planning,
Transportation, Environmental
Right of Way Services



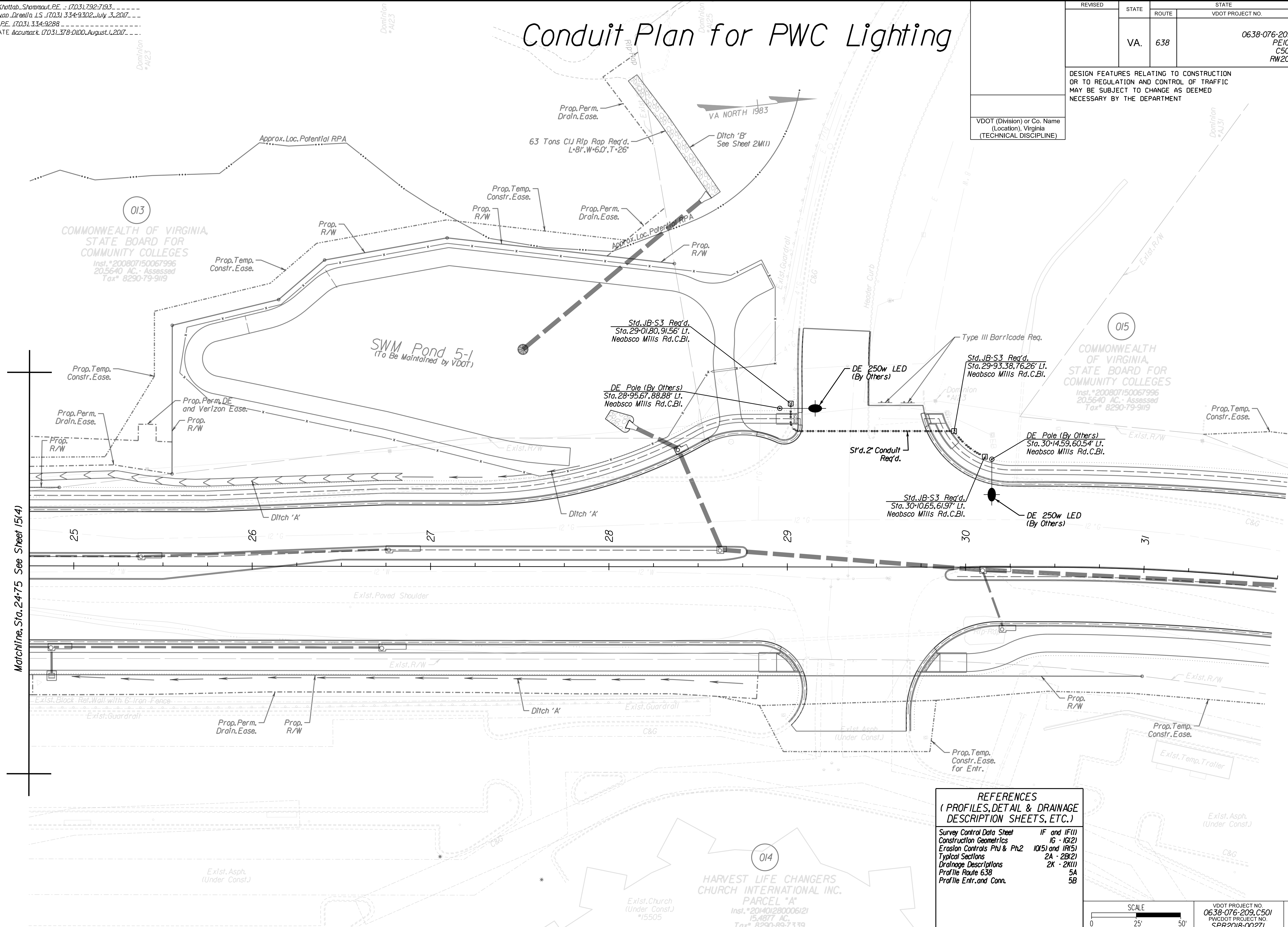
PROJECT MANAGER: EWCDOT - Khattab, Shammaul, P.E. (703) 792-7193
SURVEYED BY, DATE: RDA: Ryan, Dreelin, L.S. (703) 334-9302, July 3, 2017
DESIGN BY: RDA: Mack, Gunn, P.E. (703) 334-9288
SUBSURFACE UTILITY BY, DATE: Accurack, (703) 378-0100, August 1, 2017

Conduit Plan for PWC Lighting

REVISED	STATE	ROUTE	STATE	VDOT PROJECT NO.	SHEET NO.
	VA.	638		0638-076-209 PE101 CS01 RW201	15(5)

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

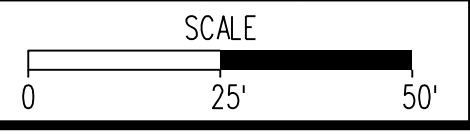
VDOT (Division) or Co. Name
(Location), Virginia
(TECHNICAL DISCIPLINE)



Matchline, Sta. 24+75 See Sheet 15(4)

**REFERENCES
(PROFILES, DETAIL & DRAINAGE DESCRIPTION SHEETS, ETC.)**

Survey Control Data Sheet	IF and IF(1)
Construction Geometrics	16 - 10(2)
Erosion Controls Ph1 & Ph2	10(5) and 10(5)
Typical Sections	2A - 2B(2)
Drainage Descriptions	2K - 2K(1)
Profile Route 638	5A
Profile Entr. and Conn.	5B



VDOT PROJECT NO. 0638-076-209, C501 PWCDOT PROJECT NO. SPR2018-00271	SHEET NO. 15(5)
---	--------------------

THESE PLANS ARE UNFINISHED AND UNAPPROVED AND ARE NOT TO BE USED FOR ANY TYPE OF CONSTRUCTION.

R.W. PHASE PLANS

PROJECT MANAGER: EWCDOT - Khattab, Shamouh, PE. (703) 792-7193
SURVEYED BY, DATE: RDA: Ryan, Dreella, LS (703) 334-9302, July 3, 2017
DESIGN BY: RDA: Mack, Gunn, PE. (703) 334-9288
SUBSURFACE UTILITY BY, DATE: Accurmark (703) 378-0100, August 1, 2017

Conduit Plan for PWC Lighting

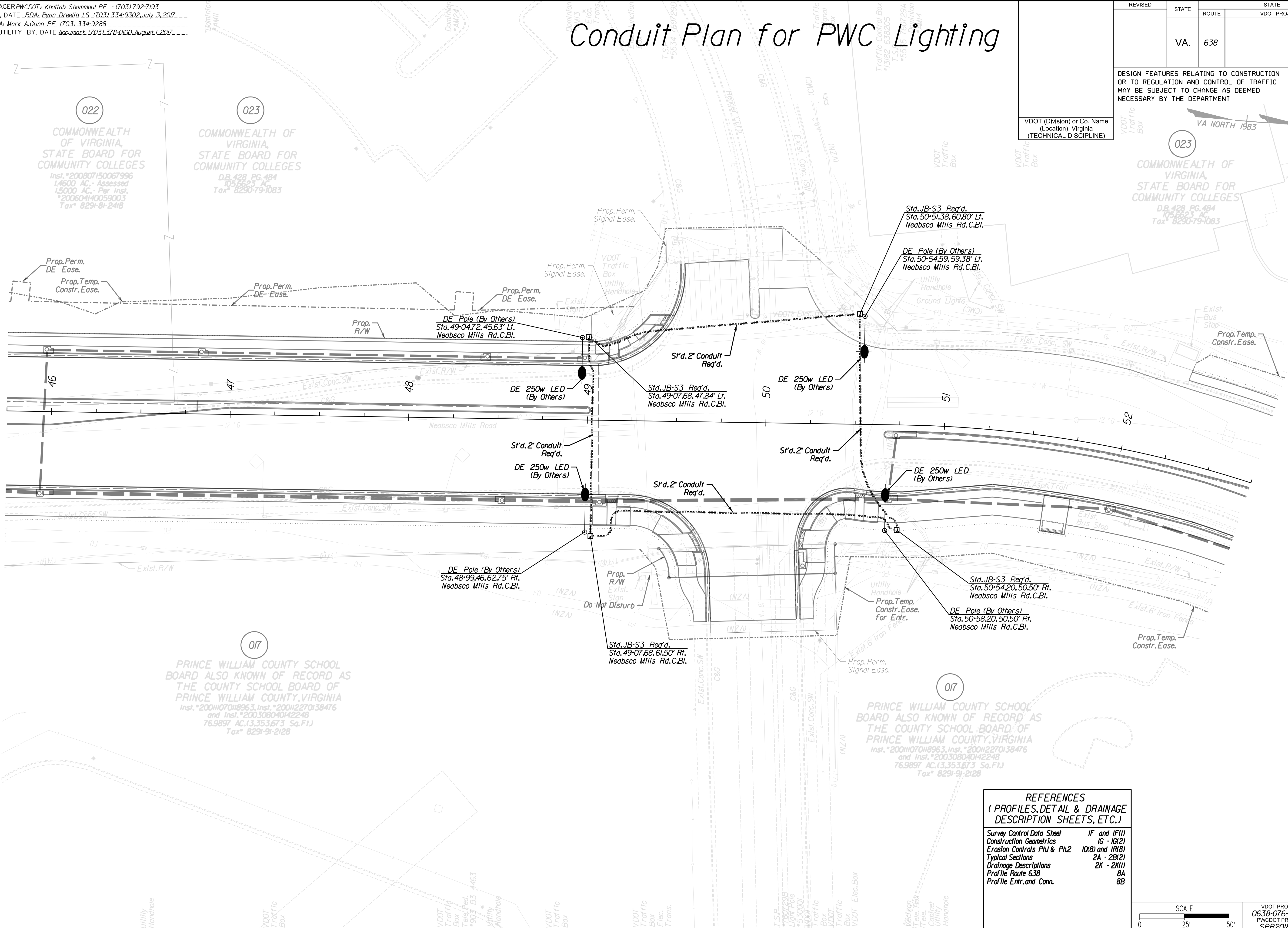
REVISED	STATE		STATE	SHEET NO.
	ROUTE	VDOT PROJECT NO.		
	VA.	638	0638-076-209 PE101 CS01 RW201	1516

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

VDOT (Division) or Co. Name (Location), Virginia (TECHNICAL DISCIPLINE)

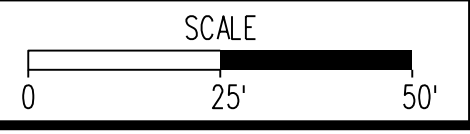


CdA Rinker Design Associates, P.C. Online Locations: Surveying, Engineering, Planning, Construction Management, Transportation, Environmental, Geotechnical, Utility, and Other Services. Right of Way Services.



REFERENCES
(PROFILES, DETAIL & DRAINAGE DESCRIPTION SHEETS, ETC.)

Survey Control Data Sheet	IF and IF(1)
Construction Geometrics	1G - 1G(2)
Erosion Controls Ph1 & Ph2	10(B) and 11(B)
Typical Sections	2A - 2B(2)
Drainage Descriptions	2K - 2K(1)
Profile Route 638	8A
Profile Entr. and Conn.	8B



VDOT PROJECT NO. 0638-076-209, CS01 PWCDOT PROJECT NO. SPR2018-00271	SHEET NO. 1516
---	-------------------

THESE PLANS ARE UNFINISHED AND UNAPPROVED AND ARE NOT TO BE USED FOR ANY TYPE OF CONSTRUCTION.

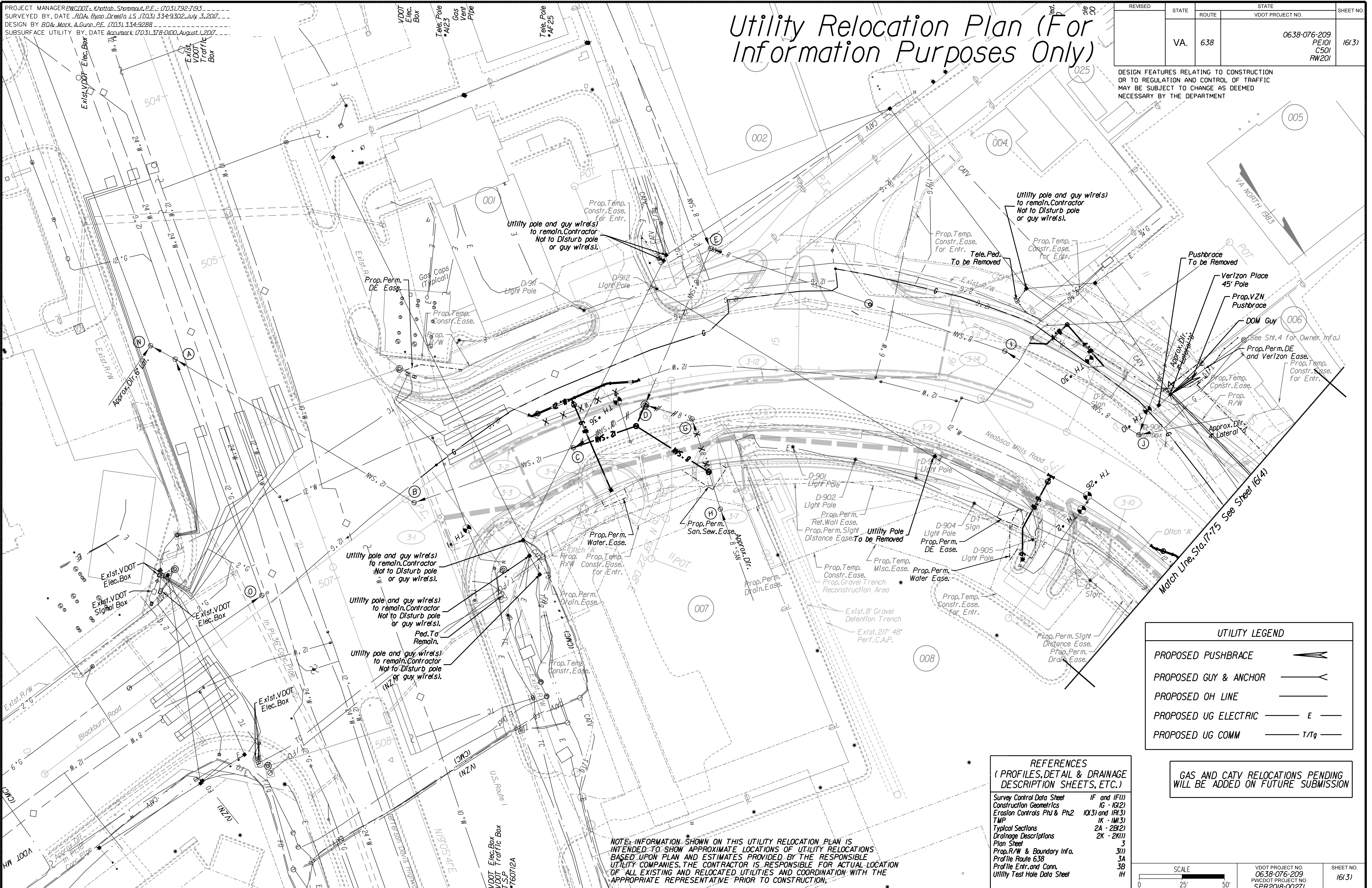
R.W. PHASE PLANS

PROJECT MANAGER: EWCDOT - Khattab, Shammout, P.E. - (703) 792-7193
 SURVEYED BY, DATE: RDA: Bryan, Dreelin, LS (703) 334-9302, July 3, 2017
 DESIGN BY: RDA: Mack, Gunn, P.E. (703) 334-9288
 SUBSURFACE UTILITY BY, DATE: Accunmark (703) 378-0100, August 1, 2017

Utility Relocation Plan (For Information Purposes Only)

REVISED	STATE	ROUTE	STATE	VDOT PROJECT NO.	SHEET NO.
	VA.	638		0638-076-209 PE101 CS01 RW201	16(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 LEGEND

PROPOSED PUSHBRACE	➔
PROPOSED GUY & ANCHOR	—┴—
PROPOSED OH LINE	—
PROPOSED UG ELECTRIC	—E—
PROPOSED UG COMM	—T/Tg—

REFERENCES (PROFILES, DETAIL & DRAINAGE DESCRIPTION SHEETS, ETC.)

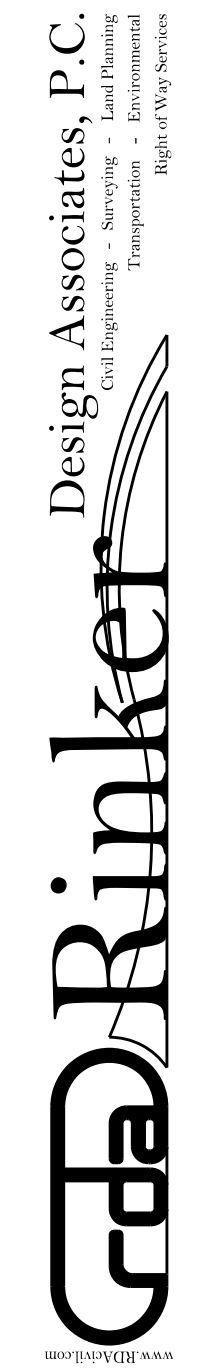
Survey Control Data Sheet	1F and 1F(1)
Construction Geometrics	1G - 1G(2)
Erosion Controls Ph1 & Ph2	1K(3) and 1K(3)
TMP	1K - 1K(3)
Typical Sections	2A - 2B(2)
Drainage Descriptions	2K - 2K(1)
Plan Sheet	3
Prop. R/W & Boundary Info.	3A
Profile Route 638	3I
Profile Entr. and Conn.	3B
Utility Test Hole Data Sheet	1H

GAS AND CATV RELOCATIONS PENDING WILL BE ADDED ON FUTURE SUBMISSION

NOTE: INFORMATION SHOWN ON THIS UTILITY RELOCATION PLAN IS INTENDED TO SHOW APPROXIMATE LOCATIONS OF UTILITY RELOCATIONS BASED UPON PLAN AND ESTIMATES PROVIDED BY THE RESPONSIBLE UTILITY COMPANIES. THE CONTRACTOR IS RESPONSIBLE FOR ACTUAL LOCATION OF ALL EXISTING AND RELOCATED UTILITIES AND COORDINATION WITH THE APPROPRIATE REPRESENTATIVE PRIOR TO CONSTRUCTION.

SCALE	VDOT PROJECT NO. 0638-076-209 PWCDOT PROJECT NO. SPR2018-00271	SHEET NO. 16(3)
-------	---	--------------------

THESE PLANS ARE UNFINISHED AND UNAPPROVED AND ARE NOT TO BE USED FOR ANY TYPE OF CONSTRUCTION. R/W PHASE PLANS



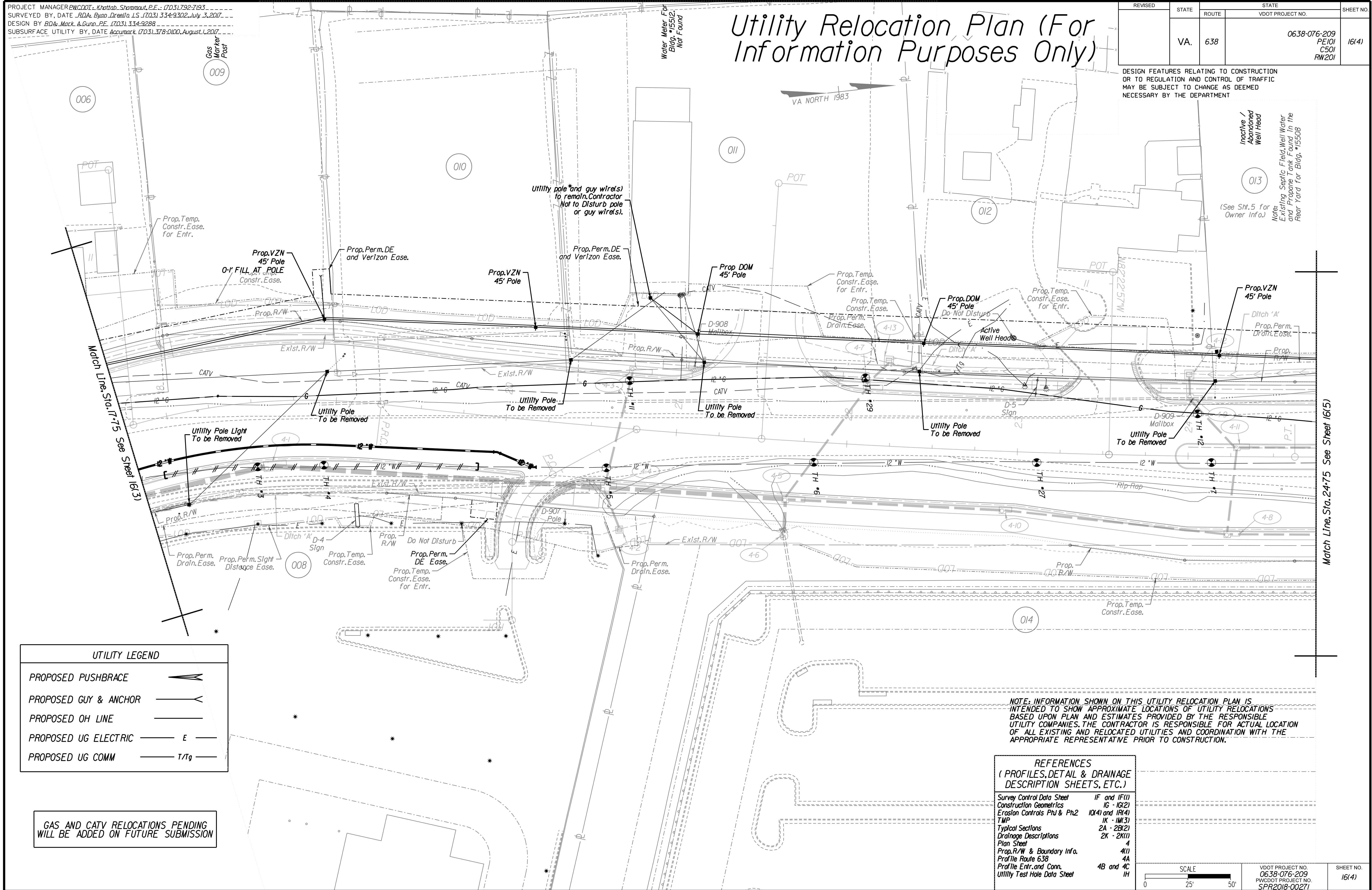
PROJECT MANAGER EWCDOT - Khattab, Shammout, P.E. (703) 792-7193
SURVEYED BY, DATE RDA: Bryan Dreelin, L.S. (703) 334-9302, July 3, 2017
DESIGN BY RDA: Mack, A. Gunn, P.E. (703) 334-9288
SUBSURFACE UTILITY BY, DATE AccuMark (703) 378-0100, August 1, 2017

Utility Relocation Plan (For Information Purposes Only)

REVISED	STATE	ROUTE	STATE	VDOT PROJECT NO.	SHEET NO.
	VA.	638		0638-076-209 PE101 CS01 RW201	16(4)

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

Inactive / Abandoned Well Head
013
(See Sht. 5 for Owner Info.)
Note: Existing Septic Field, Well Water and Propane Tank Found in the Rear Yard for Bldg. #15508



Office Locations
Design Associates, P.C.
Civil Engineering, Surveying, Land Planning, Transportation, Environmental
Right of Way Services

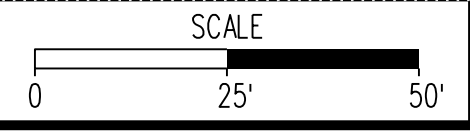
5/2/2019

PROPOSED PUSHBRACE	
PROPOSED GUY & ANCHOR	
PROPOSED OH LINE	
PROPOSED UG ELECTRIC	
PROPOSED UG COMM	

GAS AND CATV RELOCATIONS PENDING WILL BE ADDED ON FUTURE SUBMISSION

NOTE: INFORMATION SHOWN ON THIS UTILITY RELOCATION PLAN IS INTENDED TO SHOW APPROXIMATE LOCATIONS OF UTILITY RELOCATIONS BASED UPON PLAN AND ESTIMATES PROVIDED BY THE RESPONSIBLE UTILITY COMPANIES. THE CONTRACTOR IS RESPONSIBLE FOR ACTUAL LOCATION OF ALL EXISTING AND RELOCATED UTILITIES AND COORDINATION WITH THE APPROPRIATE REPRESENTATIVE PRIOR TO CONSTRUCTION.

Survey Control Data Sheet	IF and IF(1)
Construction Geometrics	1G - 1G(2)
Erosion Controls Ph1 & Ph2	10(4) and 10(4)
TMP	1K - 1K(3)
Typical Sections	2A - 2B(2)
Drainage Descriptions	2K - 2K(1)
Plan Sheet	4
Prop. R/W & Boundary Info.	4(1)
Profile Route 638	4A
Profile Entr. and Conn.	4B and 4C
Utility Test Hole Data Sheet	1H



VDOT PROJECT NO. 0638-076-209 PWCDOT PROJECT NO. SPR2018-00271	SHEET NO. 16(4)
---	--------------------

THESE PLANS ARE UNFINISHED AND UNAPPROVED AND ARE NOT TO BE USED FOR ANY TYPE OF CONSTRUCTION.

R/W PHASE PLANS

PROJECT MANAGER: EWCDOT - Khattab, Shammout, P.E. (703) 792-7193
SURVEYED BY, DATE: RDA: Bryan Drealet, LS (703) 334-9302, July 3, 2017
DESIGN BY: RDA: Mack, A. Gunn, P.E. (703) 334-9288
SUBSURFACE UTILITY BY, DATE: Accurmark (703) 378-0100, August 1, 2017

REVISED	STATE	ROUTE	STATE	VDOT PROJECT NO.	SHEET NO.
	VA.	638		0638-076-209 PE101 CS01 RW201	16(5)

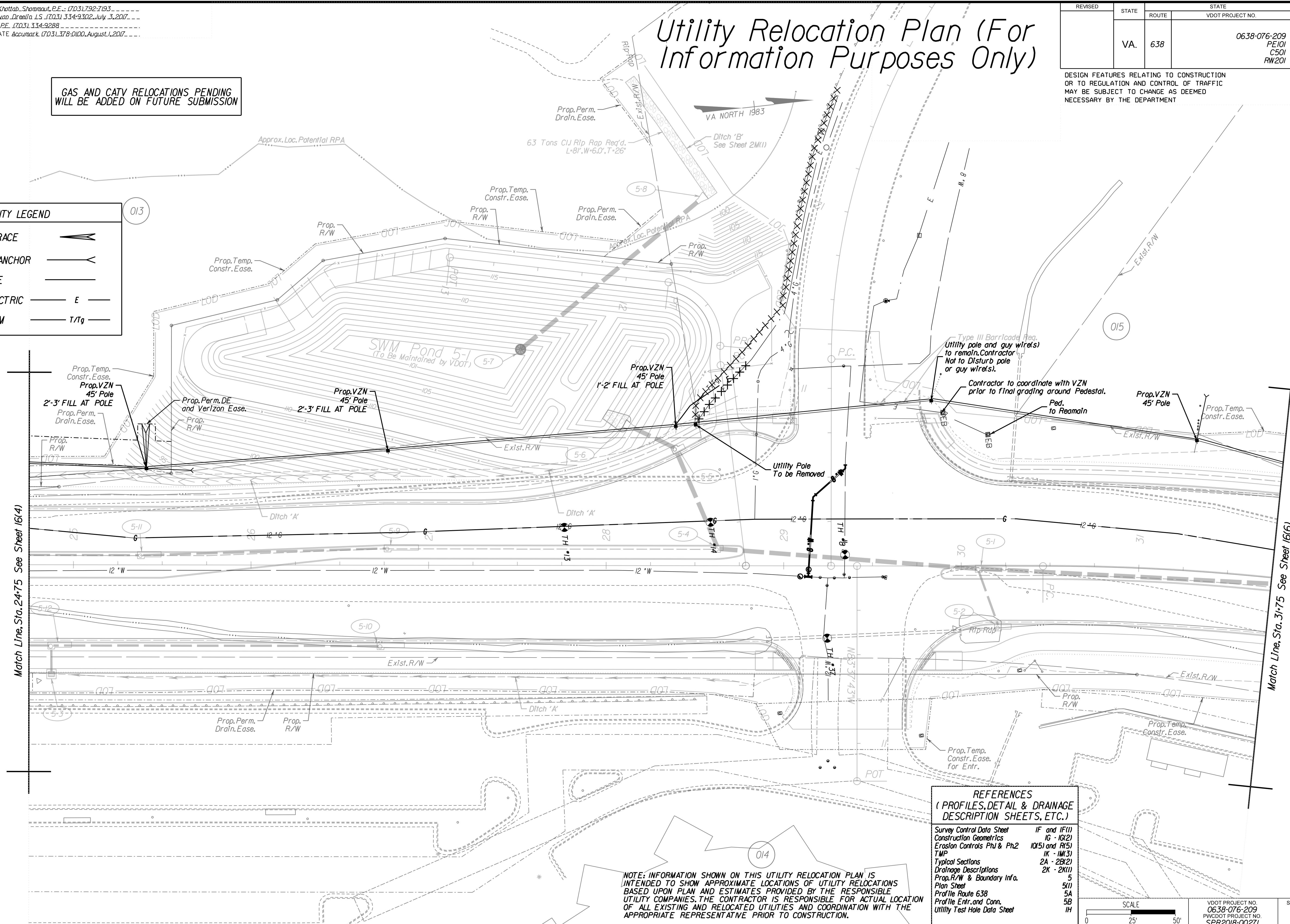
Utility Relocation Plan (For Information Purposes Only)

GAS AND CATV RELOCATIONS PENDING
WILL BE ADDED ON FUTURE SUBMISSION

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

UTILITY LEGEND

- PROPOSED PUSHBRACE
- PROPOSED GUY & ANCHOR
- PROPOSED OH LINE
- PROPOSED UG ELECTRIC
- PROPOSED UG COMM



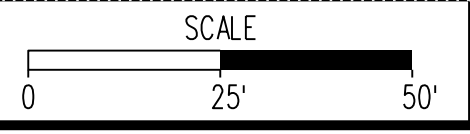
Match Line, Sta. 24+75 See Sheet 16(4)

Match Line, Sta. 31+75 See Sheet 16(6)

REFERENCES
(PROFILES, DETAIL & DRAINAGE DESCRIPTION SHEETS, ETC.)

Survey Control Data Sheet	IF and IF(1)
Construction Geometrics	16 - 16(2)
Erosion Controls Ph1 & Ph2	10(5) and 11(5)
TWP	1K - 1K(3)
Typical Sections	2A - 2B(2)
Drainage Descriptions	2K - 2K(1)
Prop. R/W & Boundary Info.	5
Plan Sheet	5(1)
Profile Route 638	5A
Profile Entr. and Conn.	5B
Utility Test Hole Data Sheet	1H

NOTE: INFORMATION SHOWN ON THIS UTILITY RELOCATION PLAN IS INTENDED TO SHOW APPROXIMATE LOCATIONS OF UTILITY RELOCATIONS BASED UPON PLAN AND ESTIMATES PROVIDED BY THE RESPONSIBLE UTILITY COMPANIES. THE CONTRACTOR IS RESPONSIBLE FOR ACTUAL LOCATION OF ALL EXISTING AND RELOCATED UTILITIES AND COORDINATION WITH THE APPROPRIATE REPRESENTATIVE PRIOR TO CONSTRUCTION.



VDOT PROJECT NO.	0638-076-209	SHEET NO.	16(5)
PWCDDOT PROJECT NO.	SPR2018-00271		

THESE PLANS ARE UNFINISHED AND UNAPPROVED AND ARE NOT TO BE USED FOR ANY TYPE OF CONSTRUCTION.

R/W PHASE PLANS

Online Locations
 Design Associates, P.C.
 Civil Engineering, Surveying, Land Planning, Transportation, Environmental
 10000 Westpark Drive, Suite 100, Dallas, TX 75243
 Phone: (972) 412-1000
 Fax: (972) 412-1001
 www.dadainc.com

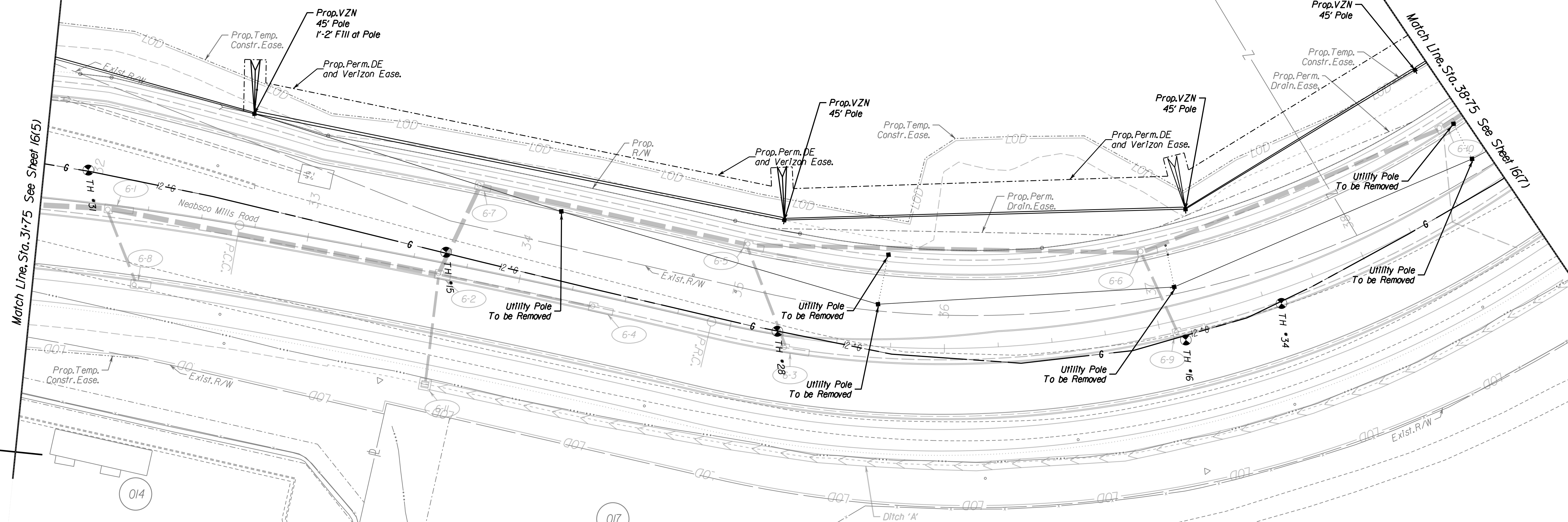
Utility Relocation Plan (For Information Purposes Only)

REVISED	STATE	ROUTE	STATE	VDOT PROJECT NO.	SHEET NO.
	VA.	638		0638-076-209 PE101 CS01 RW201	16(6)

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

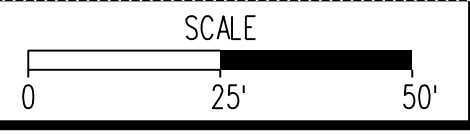
GAS AND CATV RELOCATIONS PENDING WILL BE ADDED ON FUTURE SUBMISSION

UTILITY LEGEND	
PROPOSED PUSHBRACE	
PROPOSED GUY & ANCHOR	
PROPOSED OH LINE	
PROPOSED UG ELECTRIC	
PROPOSED UG COMM	



REFERENCES (PROFILES, DETAIL & DRAINAGE DESCRIPTION SHEETS, ETC.)	
Survey Control Data Sheet	IF and IF(1)
Construction Geometrics	16 - 16(2)
Erosion Controls Ph1 & Ph2	10(6) and 10(6)
TMP	1K - 1K(3)
Typical Sections	2A - 2B(2)
Drainage Descriptions	2K - 2K(1)
Plan Sheet	6
Prop. R/W & Boundary Info.	6(I)
Profile Route 638	6A
Utility Test Hole Data Sheet	1H

NOTE: INFORMATION SHOWN ON THIS UTILITY RELOCATION PLAN IS INTENDED TO SHOW APPROXIMATE LOCATIONS OF UTILITY RELOCATIONS BASED UPON PLAN AND ESTIMATES PROVIDED BY THE RESPONSIBLE UTILITY COMPANIES. THE CONTRACTOR IS RESPONSIBLE FOR ACTUAL LOCATION OF ALL EXISTING AND RELOCATED UTILITIES AND COORDINATION WITH THE APPROPRIATE REPRESENTATIVE PRIOR TO CONSTRUCTION.



VDOT PROJECT NO. 0638-076-209 PWCDOT PROJECT NO. SPR2018-00271	SHEET NO. 16(6)
---	--------------------

THESE PLANS ARE UNFINISHED AND UNAPPROVED AND ARE NOT TO BE USED FOR ANY TYPE OF CONSTRUCTION.

R/W PHASE PLANS

Cda Rinker
Design Associates, P.C.
Civil Engineering, Surveying, Land Planning, Transportation, Environmental, Right of Way Services

PROJECT MANAGER: PWCDOT - Khattab, Shamout, P.E. (703) 792-7193
SURVEYED BY, DATE: RDA: Ryan Drealla, LS (703) 334-9302, July 3, 2017
DESIGN BY: RDA: Mack, Gunn, P.E. (703) 334-9288
SUBSURFACE UTILITY BY, DATE: Accurack (703) 378-0100, August 1, 2017

REVISED	STATE	ROUTE	STATE	VDOT PROJECT NO.	SHEET NO.
	VA.	638		0638-076-209 PE101 CS01 RW201	16(7)

Utility Relocation Plan (For Information Purposes Only)

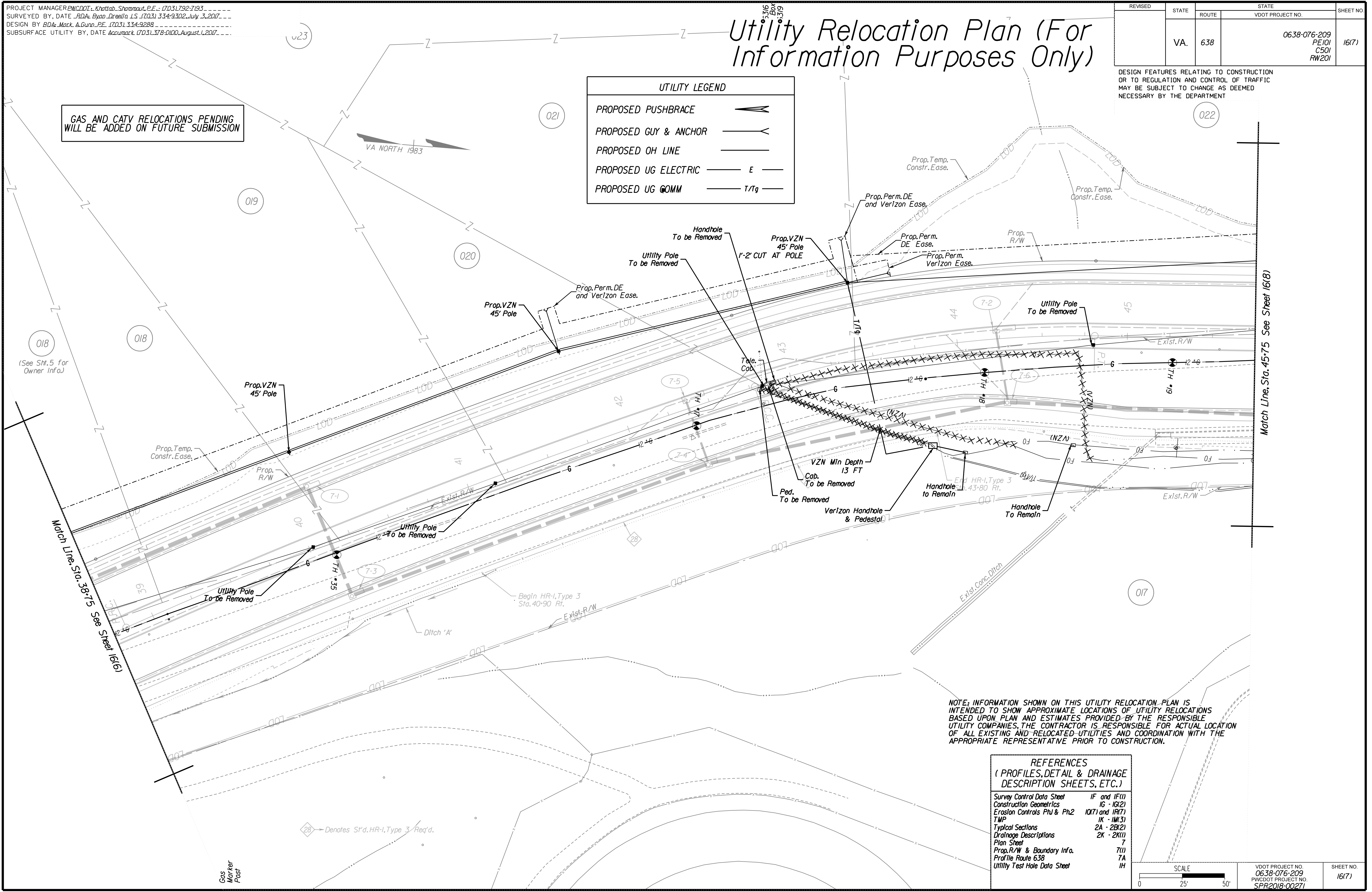
DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT

UTILITY LEGEND

- PROPOSED PUSHBRACE
- PROPOSED GUY & ANCHOR
- PROPOSED OH LINE
- PROPOSED UG ELECTRIC
- PROPOSED UG COMM

GAS AND CATV RELOCATIONS PENDING WILL BE ADDED ON FUTURE SUBMISSION

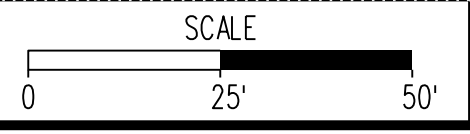
Offline Locations
Design Associates, P.C.
Civil Engineering, Surveying, Land Planning, Transportation, Environmental, Right of Way Services



NOTE: INFORMATION SHOWN ON THIS UTILITY RELOCATION PLAN IS INTENDED TO SHOW APPROXIMATE LOCATIONS OF UTILITY RELOCATIONS BASED UPON PLAN AND ESTIMATES PROVIDED BY THE RESPONSIBLE UTILITY COMPANIES. THE CONTRACTOR IS RESPONSIBLE FOR ACTUAL LOCATION OF ALL EXISTING AND RELOCATED UTILITIES AND COORDINATION WITH THE APPROPRIATE REPRESENTATIVE PRIOR TO CONSTRUCTION.

REFERENCES
(PROFILES, DETAIL & DRAINAGE DESCRIPTION SHEETS, ETC.)

Survey Control Data Sheet	1F and 1F(1)
Construction Geometrics	1G - 1G(2)
Erosion Controls Ph1 & Ph2	1O(7) and 1R(7)
TMP	1K - 1K(3)
Typical Sections	2A - 2B(2)
Drainage Descriptions	2K - 2K(1)
Plan Sheet	7
Prop. R/W & Boundary Info.	7(U)
Profile Route 638	7A
Utility Test Hole Data Sheet	1H



VDOT PROJECT NO. 0638-076-209 PWCDOT PROJECT NO. SPR2018-00271	SHEET NO. 16(7)
---	--------------------

THESE PLANS ARE UNFINISHED AND UNAPPROVED AND ARE NOT TO BE USED FOR ANY TYPE OF CONSTRUCTION.

R/W PHASE PLANS

PROJECT MANAGER PWCDOT - Khattab, Shammout, P.E. (703) 792-7193
SURVEYED BY, DATE RDA: Ryan Dreel/a.L.S. (703) 334-9302, July 3, 2017
DESIGN BY RDA: Mack, A. Gunn, P.E. (703) 334-9288
SUBSURFACE UTILITY BY, DATE Accurack (703) 378-0100, August 1, 2017

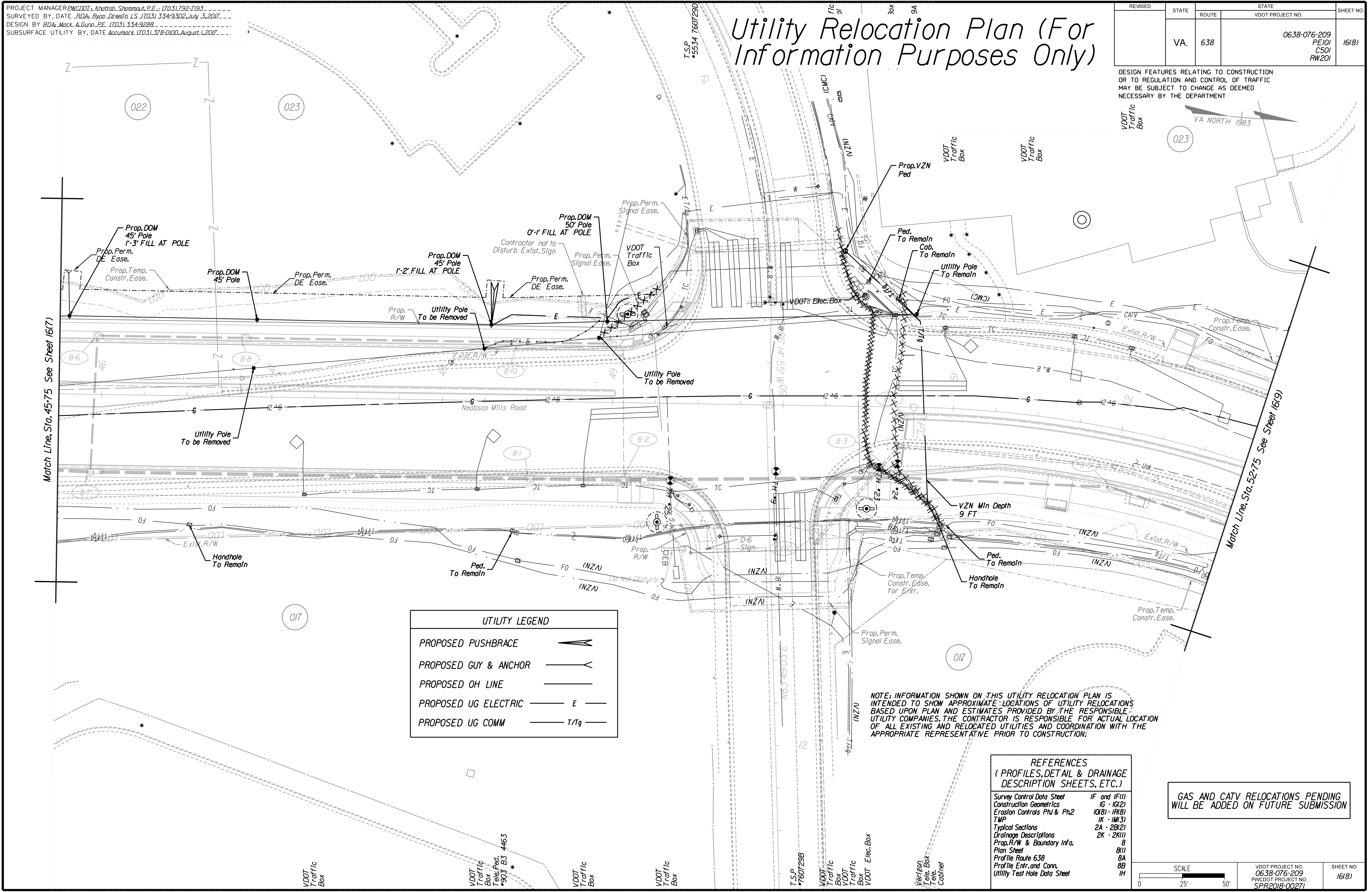
Utility Relocation Plan (For Information Purposes Only)

REVISED	STATE	ROUTE	STATE	VDOT PROJECT NO.	SHEET NO.
	VA.	638		0638-076-209 PE101 CS01 RW201	16(8)

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



CDa Rinker
Design Associates, P.C.
Civil Engineering, Surveying, Land Planning, Transportation, Environmental, Right of Way Services

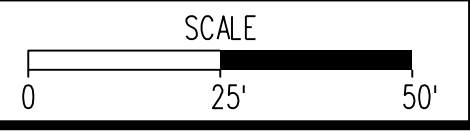


UTILITY LEGEND	
PROPOSED PUSHBRACE	
PROPOSED GUY & ANCHOR	
PROPOSED OH LINE	
PROPOSED UG ELECTRIC	
PROPOSED UG COMM	

NOTE: INFORMATION SHOWN ON THIS UTILITY RELOCATION PLAN IS INTENDED TO SHOW APPROXIMATE LOCATIONS OF UTILITY RELOCATIONS BASED UPON PLAN AND ESTIMATES PROVIDED BY THE RESPONSIBLE UTILITY COMPANIES. THE CONTRACTOR IS RESPONSIBLE FOR ACTUAL LOCATION OF ALL EXISTING AND RELOCATED UTILITIES AND COORDINATION WITH THE APPROPRIATE REPRESENTATIVE PRIOR TO CONSTRUCTION.

REFERENCES (PROFILES, DETAIL & DRAINAGE DESCRIPTION SHEETS, ETC.)	
Survey Control Data Sheet	IF and IF(1)
Construction Geometrics	16 - 16(2)
Erosion Controls Ph1 & Ph2	10(B) - 10(B)
TMP	1K - 1M(3)
Typical Sections	2A - 2B(2)
Drainage Descriptions	2K - 2K(1)
Prop. R/W & Boundary Info.	8
Plan Sheet	8(I)
Profile Route 638	8A
Profile Entr. and Conn.	8B
Utility Test Hole Data Sheet	1H

GAS AND CATV RELOCATIONS PENDING WILL BE ADDED ON FUTURE SUBMISSION



VDOT PROJECT NO. 0638-076-209 PWCDOT PROJECT NO. SPR2018-00271	SHEET NO. 16(8)
---	--------------------

THESE PLANS ARE UNFINISHED AND UNAPPROVED AND ARE NOT TO BE USED FOR ANY TYPE OF CONSTRUCTION.

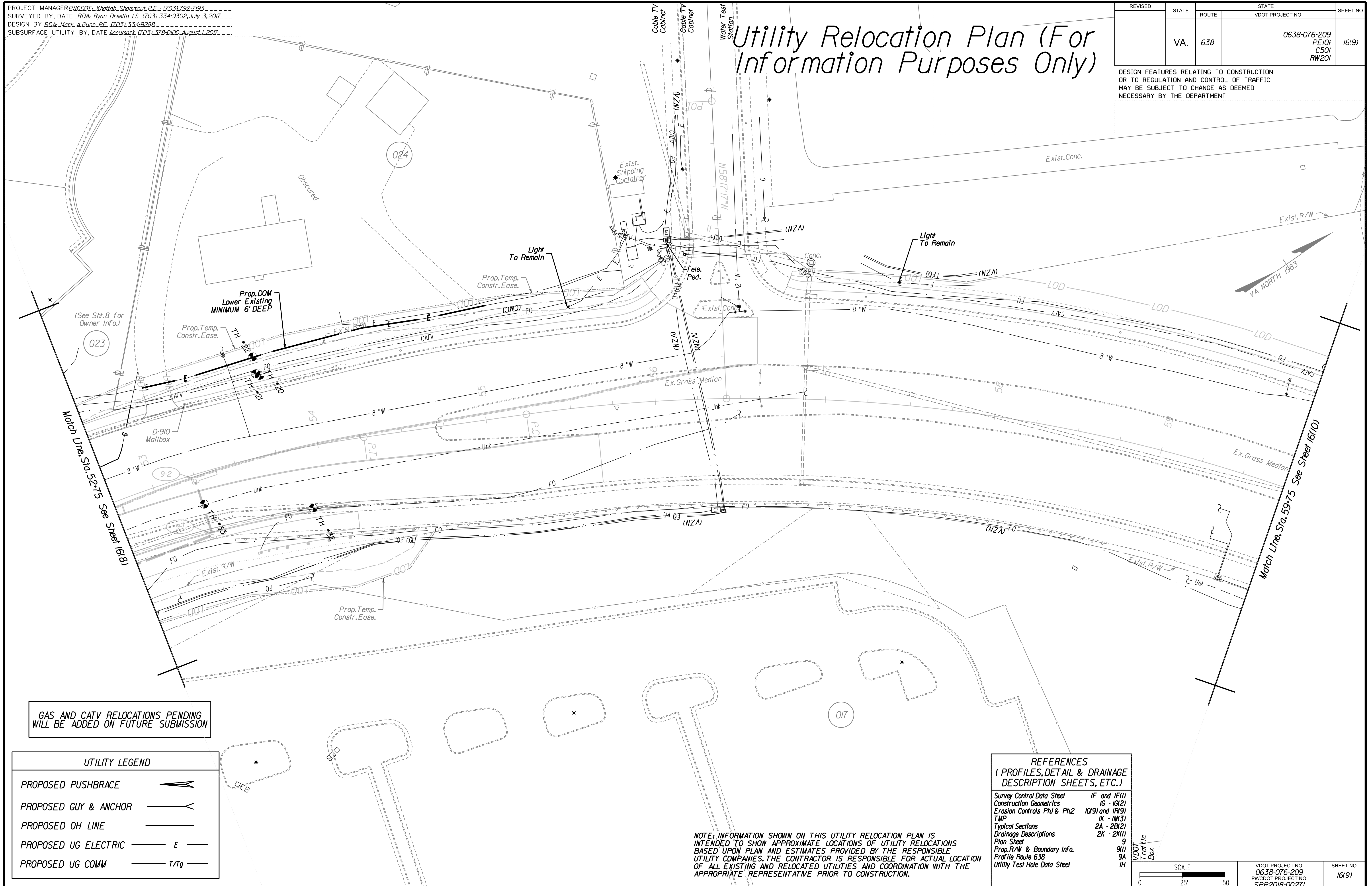
R/W PHASE PLANS

PROJECT MANAGER: EWCDOT - Khattab, Shammout, P.E. (703) 792-7193
SURVEYED BY, DATE: RDA: Ryan Dreel/a LS (703) 334-9302, July 3, 2017
DESIGN BY: RDA: Mack & Gunn, P.E. (703) 334-9288
SUBSURFACE UTILITY BY, DATE: Accurmark (703) 378-0100, August 1, 2017

REVISED	STATE	ROUTE	STATE	VDOT PROJECT NO.	SHEET NO.
	VA.	638		0638-076-209 PE101 CS01 RW201	16(9)

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

Utility Relocation Plan (For Information Purposes Only)



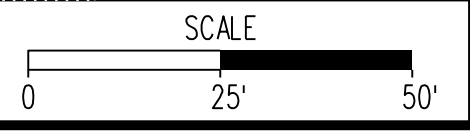
GAS AND CATV RELOCATIONS PENDING WILL BE ADDED ON FUTURE SUBMISSION

UTILITY LEGEND	
PROPOSED PUSHBRACE	
PROPOSED GUY & ANCHOR	
PROPOSED OH LINE	
PROPOSED UG ELECTRIC	
PROPOSED UG COMM	

REFERENCES (PROFILES, DETAIL & DRAINAGE DESCRIPTION SHEETS, ETC.)	
Survey Control Data Sheet	1F and 1F(1)
Construction Geometrics	1G - 1G(2)
Erosion Controls Ph1 & Ph2	1O(9) and 1R(9)
TMP	1K - 1K(3)
Typical Sections	2A - 2B(2)
Drainage Descriptions	2K - 2K(1)
Plan Sheet	9
Prop. R/W & Boundary Info.	9(I)
Profile Route 638	9A
Utility Test Hole Data Sheet	1H

NOTE: INFORMATION SHOWN ON THIS UTILITY RELOCATION PLAN IS INTENDED TO SHOW APPROXIMATE LOCATIONS OF UTILITY RELOCATIONS BASED UPON PLAN AND ESTIMATES PROVIDED BY THE RESPONSIBLE UTILITY COMPANIES. THE CONTRACTOR IS RESPONSIBLE FOR ACTUAL LOCATION OF ALL EXISTING AND RELOCATED UTILITIES AND COORDINATION WITH THE APPROPRIATE REPRESENTATIVE PRIOR TO CONSTRUCTION.

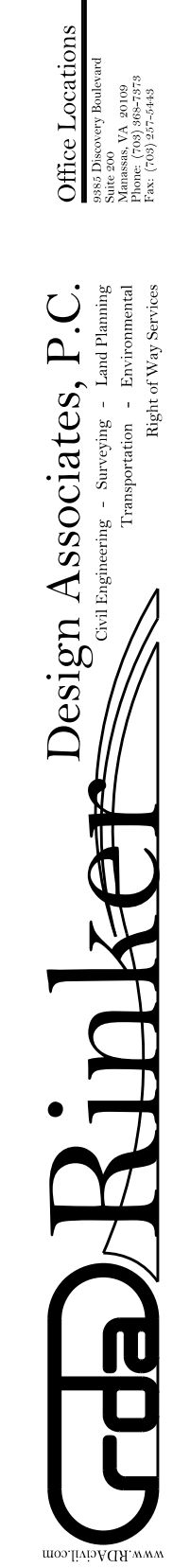
VDOT Traffic Box



VDOT PROJECT NO. 0638-076-209 PWCDOT PROJECT NO. SPR2018-00271	SHEET NO. 16(9)
---	--------------------

THESE PLANS ARE UNFINISHED AND UNAPPROVED AND ARE NOT TO BE USED FOR ANY TYPE OF CONSTRUCTION.

R/W PHASE PLANS



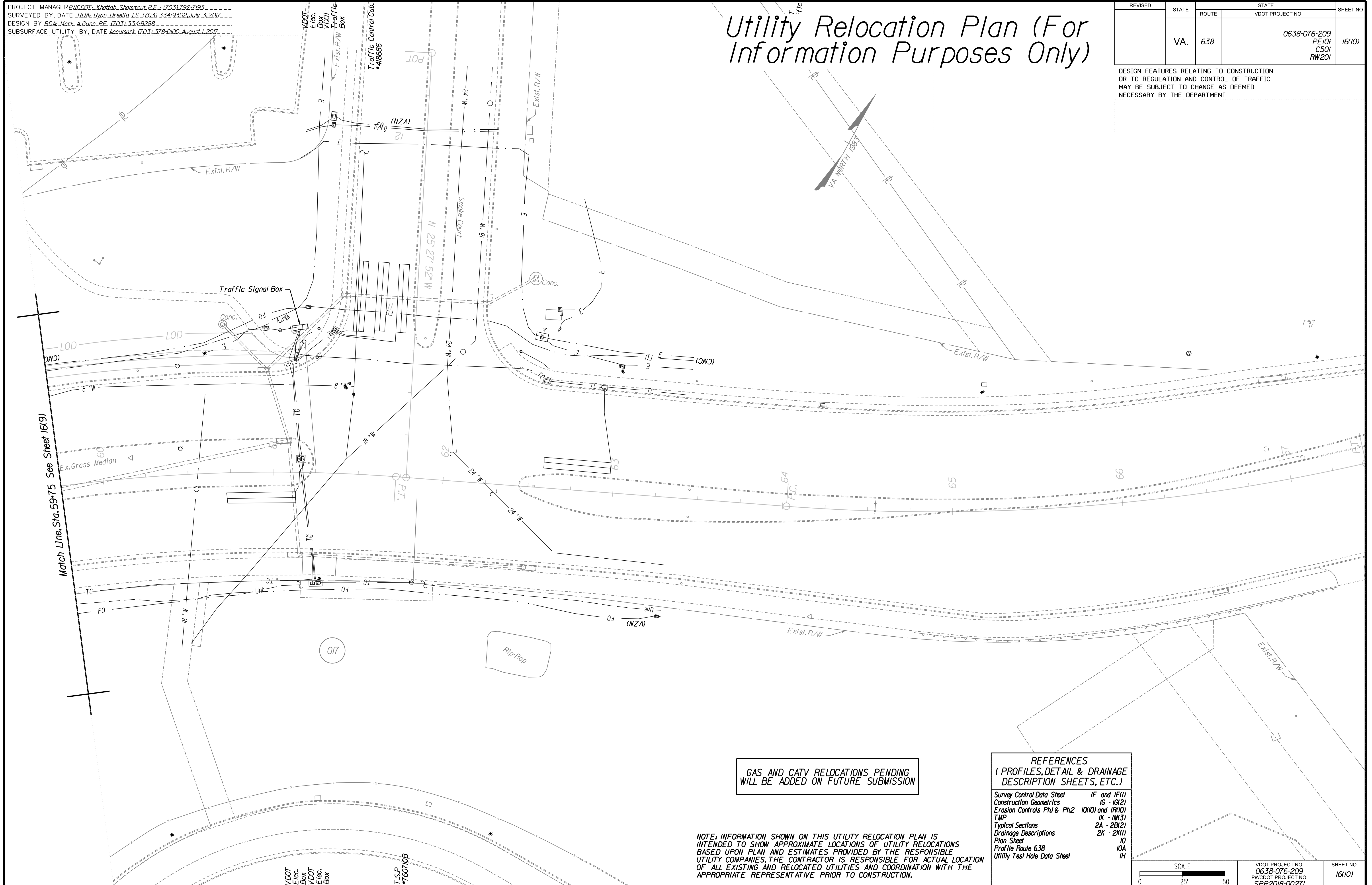
CDa Rinker
Design Associates, P.C.
Civil Engineering, Surveying, Land Planning,
Transportation, Environmental,
Right of Way Services

PROJECT MANAGER: EWCDOT - Khattab, Shamout, P.E. (703) 792-7193
SURVEYED BY, DATE: RDA: Bryan Dreelin, LS (703) 334-9302, July 3, 2017
DESIGN BY: RDA: Mack, Gunn, P.E. (703) 334-9288
SUBSURFACE UTILITY BY, DATE: Accurmark (703) 378-0100, August 1, 2017

Utility Relocation Plan (For Information Purposes Only)

REVISED	STATE	ROUTE	STATE	VDOT PROJECT NO.	SHEET NO.
	VA.	638		0638-076-209 PE101 CS01 RW201	16(10)

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

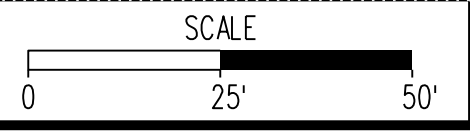


GAS AND CATV RELOCATIONS PENDING
WILL BE ADDED ON FUTURE SUBMISSION

REFERENCES
(PROFILES, DETAIL & DRAINAGE DESCRIPTION SHEETS, ETC.)

Survey Control Data Sheet	IF and IF(1)
Construction Geometrics	16 - 16(2)
Erosion Controls Ph1 & Ph2	10X(1) and 1R(1)
TMP	1K - 1K(3)
Typical Sections	2A - 2B(2)
Drainage Descriptions	2K - 2K(1)
Plan Sheet	10
Profile, Route 638	10A
Utility Test Hole Data Sheet	1H

NOTE: INFORMATION SHOWN ON THIS UTILITY RELOCATION PLAN IS INTENDED TO SHOW APPROXIMATE LOCATIONS OF UTILITY RELOCATIONS BASED UPON PLAN AND ESTIMATES PROVIDED BY THE RESPONSIBLE UTILITY COMPANIES. THE CONTRACTOR IS RESPONSIBLE FOR ACTUAL LOCATION OF ALL EXISTING AND RELOCATED UTILITIES AND COORDINATION WITH THE APPROPRIATE REPRESENTATIVE PRIOR TO CONSTRUCTION.



VDOT PROJECT NO. 0638-076-209 PWCDOT PROJECT NO. SPR2018-00271	SHEET NO. 16(10)
---	---------------------

THESE PLANS ARE UNFINISHED AND UNAPPROVED AND ARE NOT TO BE USED FOR ANY TYPE OF CONSTRUCTION.

R/W PHASE PLANS

PROJECT MANAGER PWCDOT: Khattab, Shammout, P.E.: (703) 792-7193
 SURVEYED BY, DATE: RDA: Bryan Dreel/LS (703) 334-9302, July 3, 2017
 DESIGN BY: RDA: Mack, A. Gunn, P.E. (703) 334-9288
 SUBSURFACE UTILITY BY, DATE: Accurack (703) 378-0100, August 1, 2017

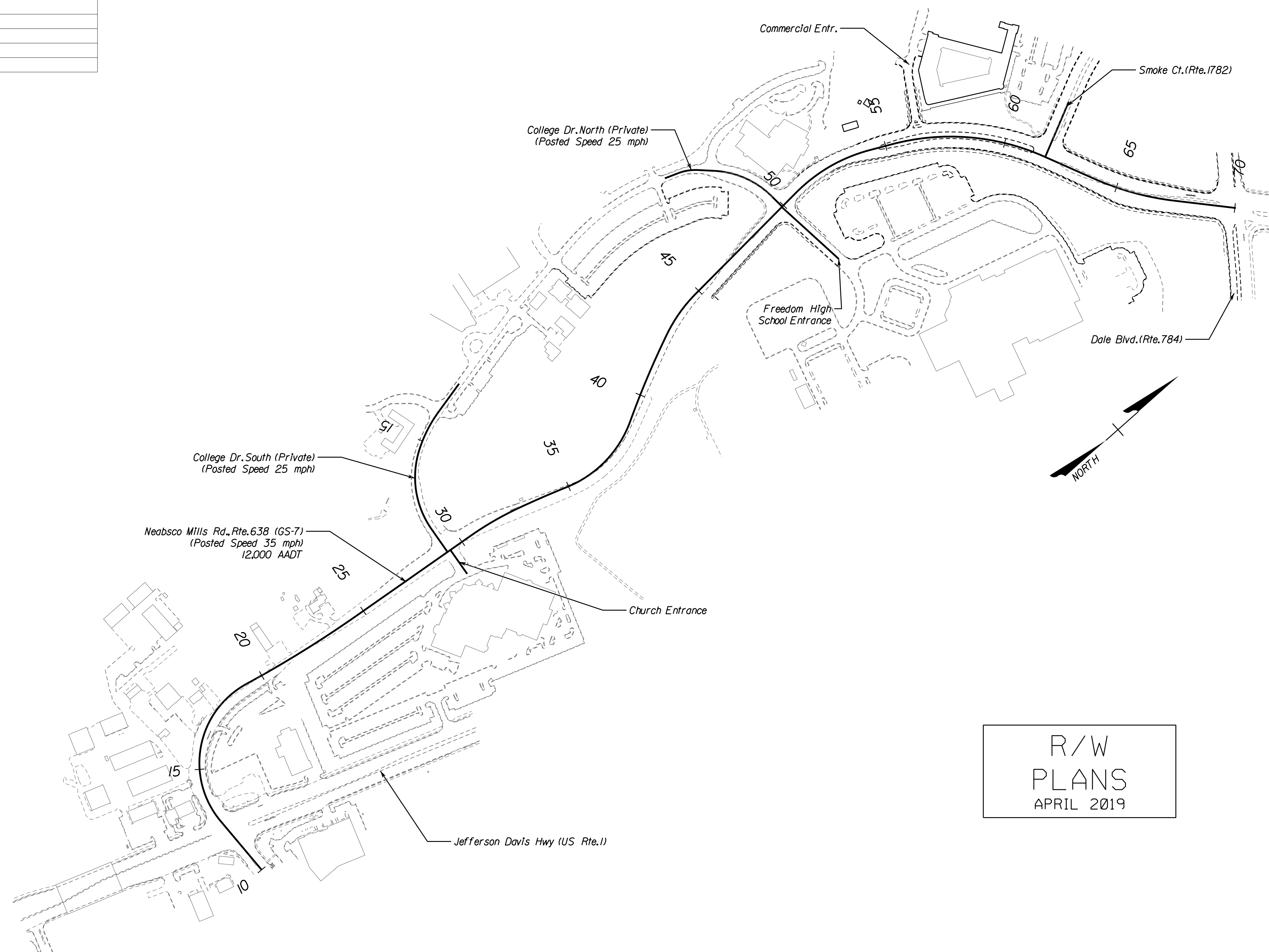
Cross Sections Project Index of Sheets

REVISED	STATE	STATE		SHEET NO.
	ROUTE	VDOT PROJECT NO.		
	VA.	638	0638-076-209 PE/01 CS/01 RW/201	1

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

PROJECT INDEX OF SHEETS		
VDOT Project 0638-076-209 (UPC: 107947)		

Sheet No.	1	Cross Section Project Index of Sheets
Sheet No.	2 thru 68	Neabsco Mills Road, Rte. 638
Sheet No.	69	Church Entrance
Sheet No.	70	College Drive S
Sheet No.	71	College Drive N
Sheet No.	72	Freedom High School Entrance



R/W
PLANS
APRIL 2019

SCALE 0 250' 500'	VDOT PROJECT NO. 0638-076-209 PWCDOT PROJECT NO. SPR2018-00271	SHEET NO. 1
----------------------	---	----------------

THESE PLANS ARE UNFINISHED AND UNAPPROVED AND ARE NOT TO BE USED FOR ANY TYPE OF CONSTRUCTION.

R/W PHASE PLANS

PROJECT MANAGER: EWCDOT:Khattab, Shamout, P.E. (703) 792-7193
SURVEYED BY, DATE: BDA: Ryan, Dreelto, L.S. (703) 334-9302; July 3, 2017
DESIGN BY: BDA: Mack, A. Guro, P.E. (703) 334-9288
SUBSURFACE UTILITY BY, DATE: Accurmark (703) 378-0100; August 1, 2017

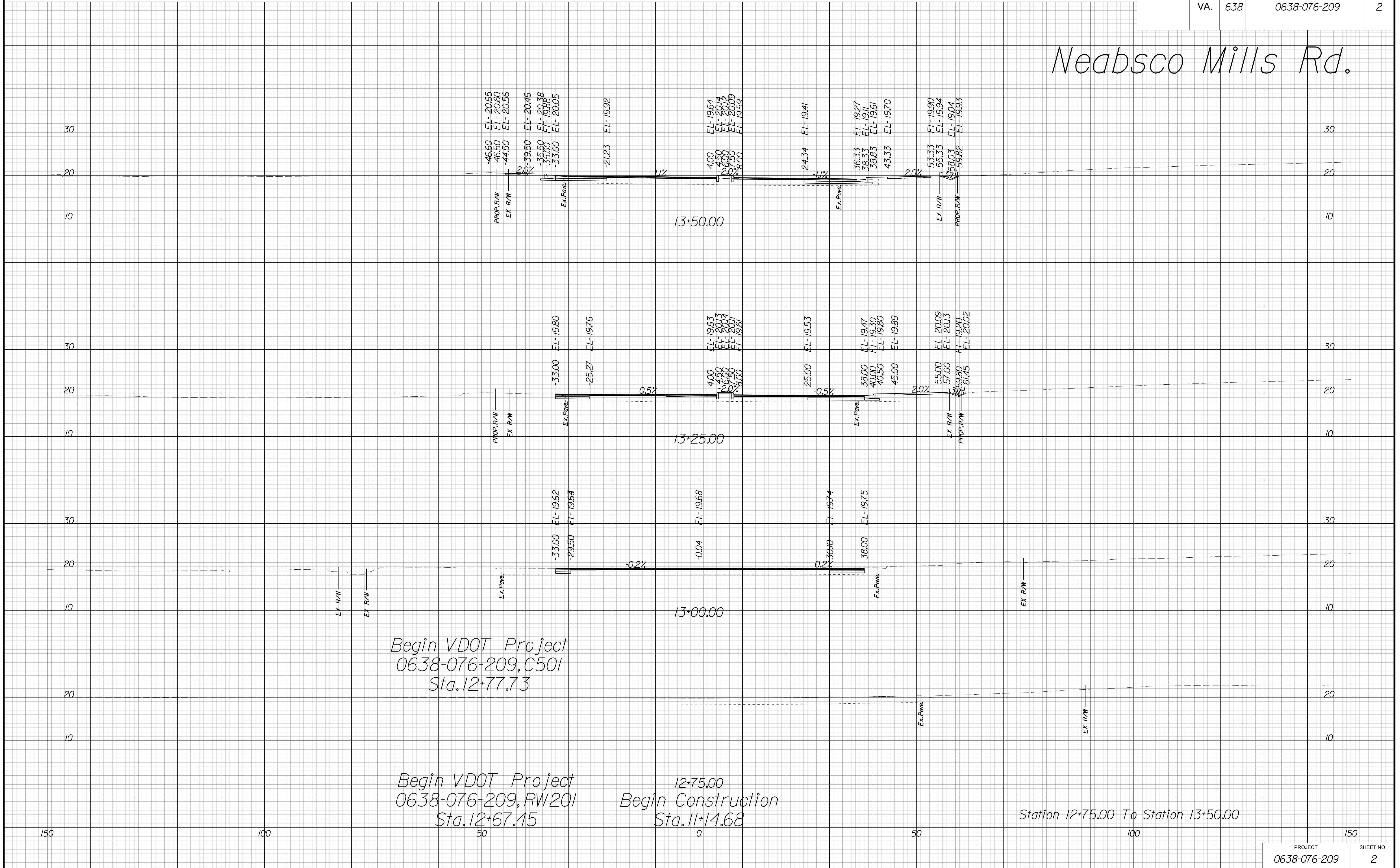
CROSS SECTIONS

SCALE 1 IN. = 10 FT

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

REVISED	STATE	ROUTE	STATE	PROJECT	SHEET NO.
	VA.	638		0638-076-209	2

Neabsco Mills Rd.



Begin VDOT Project
0638-076-209, C501
Sta. 12+77.73

Begin VDOT Project
0638-076-209, RW201
Sta. 12+67.45

Begin Construction
Sta. 11+14.68

Station 12+75.00 To Station 13+50.00

THESE PLANS ARE UNFINISHED AND UNAPPROVED AND ARE NOT TO BE USED FOR ANY TYPE OF CONSTRUCTION.

R/W PHASE PLANS

PROJECT MANAGER: EWCDOT:Khattab, Shamouf, P.E. (703) 792-7193
SURVEYED BY, DATE: BDA: Ryan, Dreelto, L.S. (703) 334-9302; July 3, 2017
DESIGN BY: BDA: Mack, A. Guro, P.E. (703) 334-9288
SUBSURFACE UTILITY BY, DATE: Accumark (703) 378-0100; August 1, 2017

CROSS SECTIONS

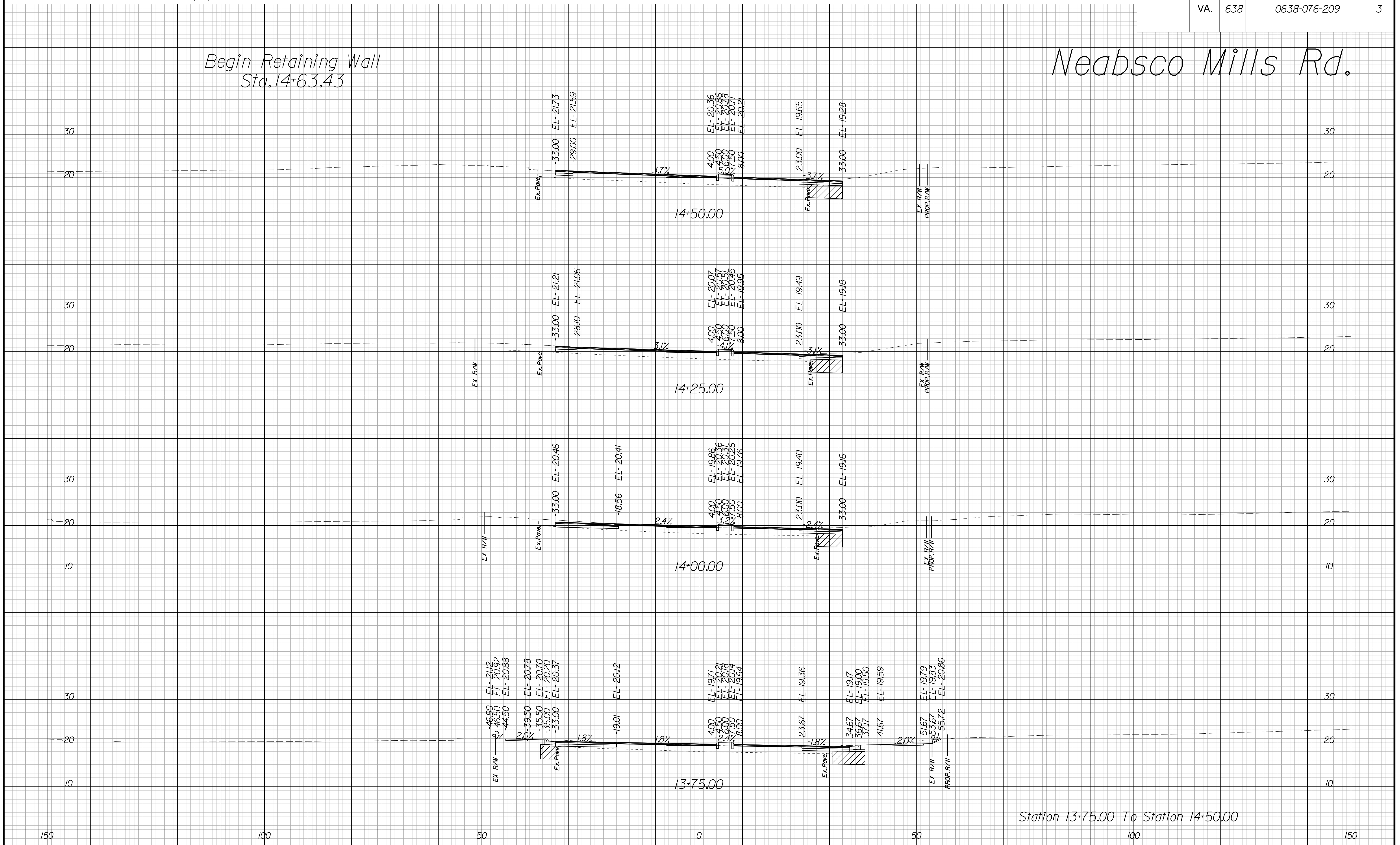
SCALE 1 IN. = 10 FT

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

REVISED	STATE	ROUTE	STATE	PROJECT	SHEET NO.
	VA.	638		0638-076-209	3

Begin Retaining Wall
Sta. 14+63.43

Neabsco Mills Rd.



Station 13+75.00 To Station 14+50.00

PROJECT	SHEET NO.
0638-076-209	3

THESE PLANS ARE UNFINISHED AND UNAPPROVED AND ARE NOT TO BE USED FOR ANY TYPE OF CONSTRUCTION.

R/W PHASE PLANS

PROJECT MANAGER: EWCDOT:Khattab, Shamouf, P.E. (703) 792-7193
SURVEYED BY, DATE: BDA: Ryan, Dreelto, L.S. (703) 334-9302; July 3, 2017
DESIGN BY: BDA: Mack, A. Guro, P.E. (703) 334-9288
SUBSURFACE UTILITY BY, DATE: Accurmark (703) 378-0100; August 1, 2017

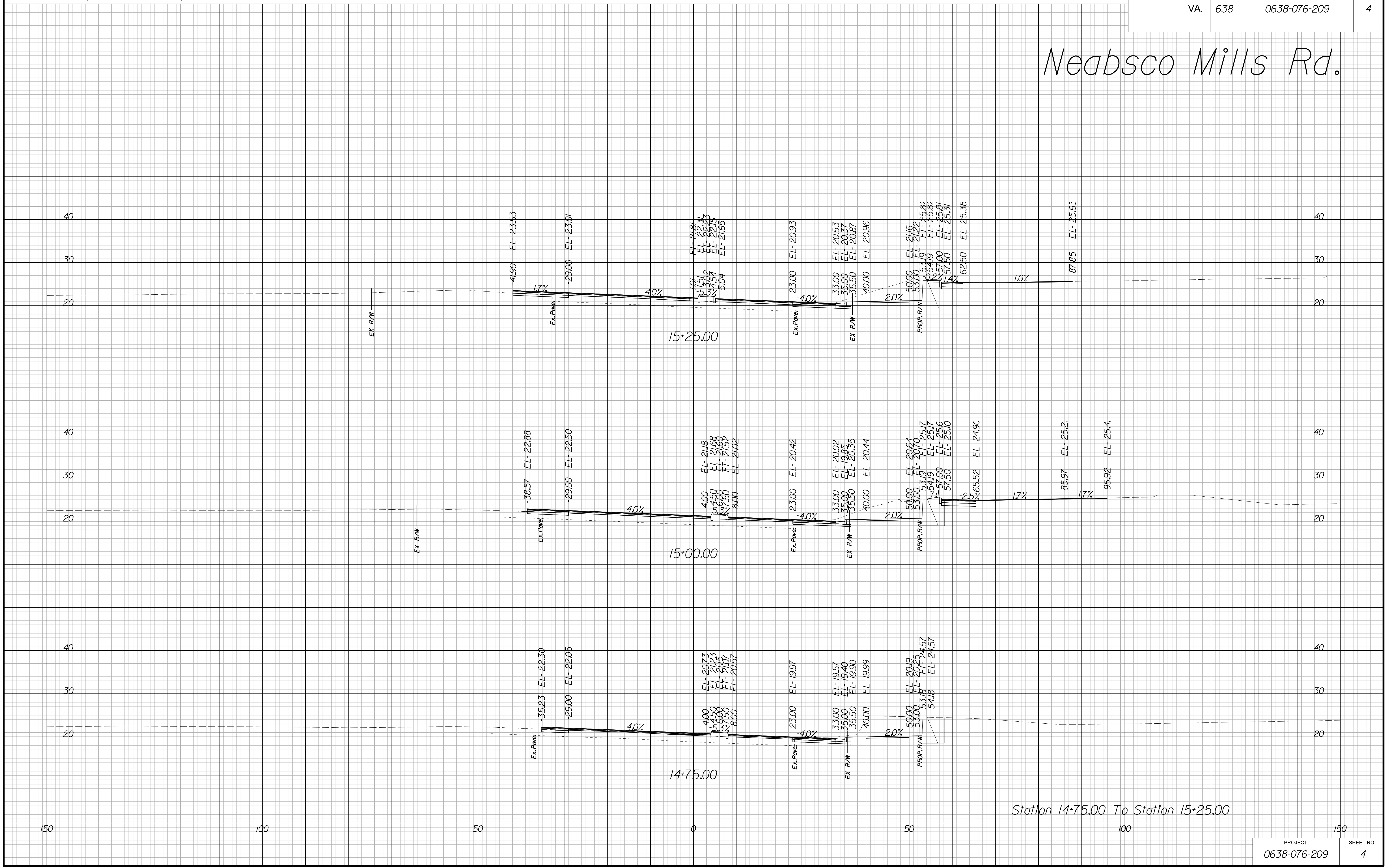
CROSS SECTIONS

SCALE 1 IN. = 10 FT

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

REVISED	STATE	STATE	SHEET NO.
	ROUTE	PROJECT	
	VA. 638	0638-076-209	4

Neabsco Mills Rd.



THESE PLANS ARE UNFINISHED AND UNAPPROVED AND ARE NOT TO BE USED FOR ANY TYPE OF CONSTRUCTION.

R/W PHASE PLANS

PROJECT MANAGER: EWCDOT:Khattab, Shamout, P.E. (703) 792-7193
SURVEYED BY, DATE: BDA: Ryan, Dreelto, L.S. (703) 334-9302; July 3, 2017
DESIGN BY: BDA: Mack, A. Guro, P.E. (703) 334-9288
SUBSURFACE UTILITY BY, DATE: Accurmark (703) 378-0100; August 1, 2017

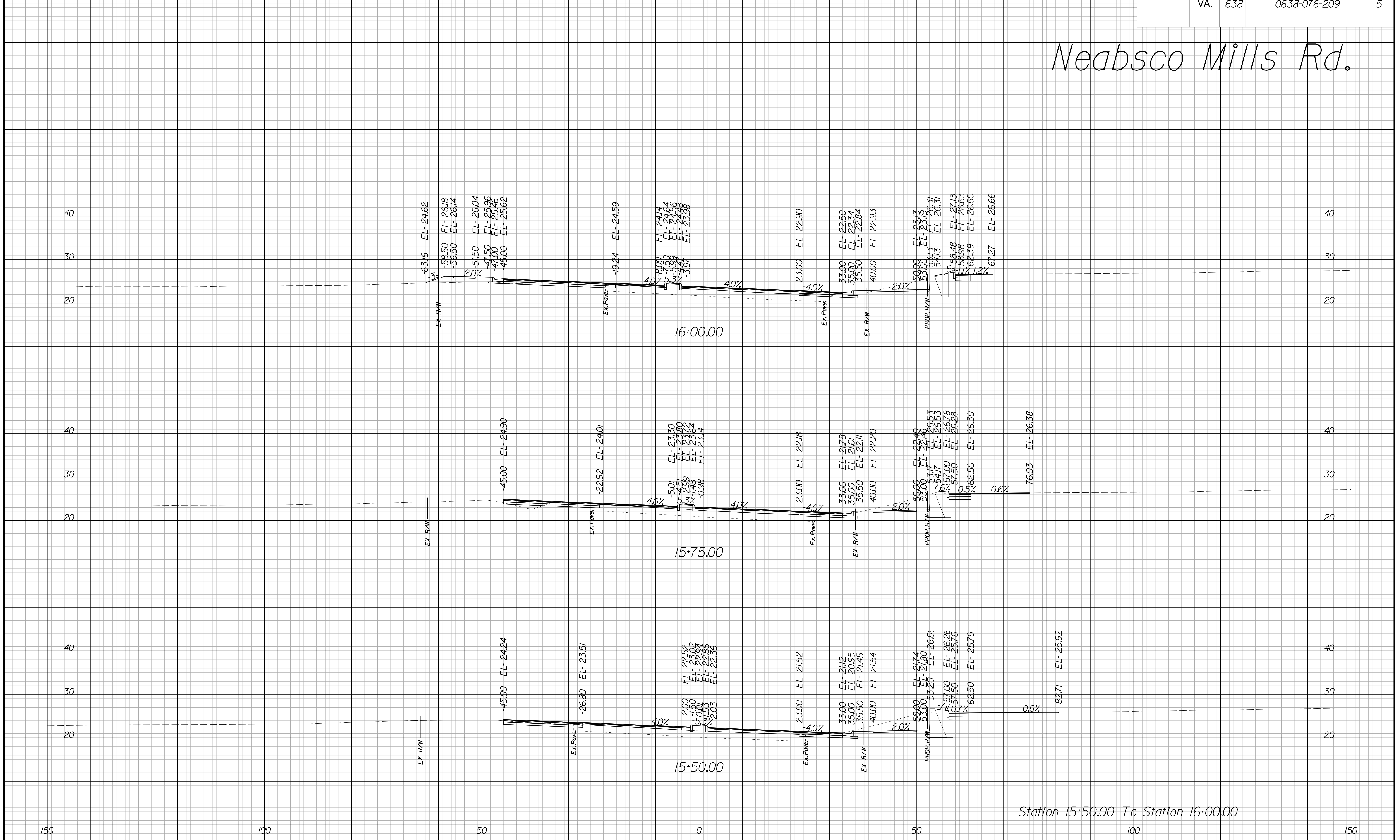
CROSS SECTIONS

SCALE 1 IN. = 10 FT

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

REVISED	STATE	ROUTE	STATE	PROJECT	SHEET NO.
	VA.	638		0638-076-209	5

Neabsco Mills Rd.



Station 15+50.00 To Station 16+00.00

PROJECT	SHEET NO.
0638-076-209	5

THESE PLANS ARE UNFINISHED AND UNAPPROVED AND ARE NOT TO BE USED FOR ANY TYPE OF CONSTRUCTION.

R/W PHASE PLANS

PROJECT MANAGER: EWCDOT: Khattab, Shamout, P.E. (703) 792-7193
SURVEYED BY, DATE: BDA: Ryan, Dreelto, L.S. (703) 334-9302; July 3, 2017
DESIGN BY: BDA: Mack, A. Guro, P.E. (703) 334-9288
SUBSURFACE UTILITY BY, DATE: Accurmark (703) 378-0100; August 1, 2017

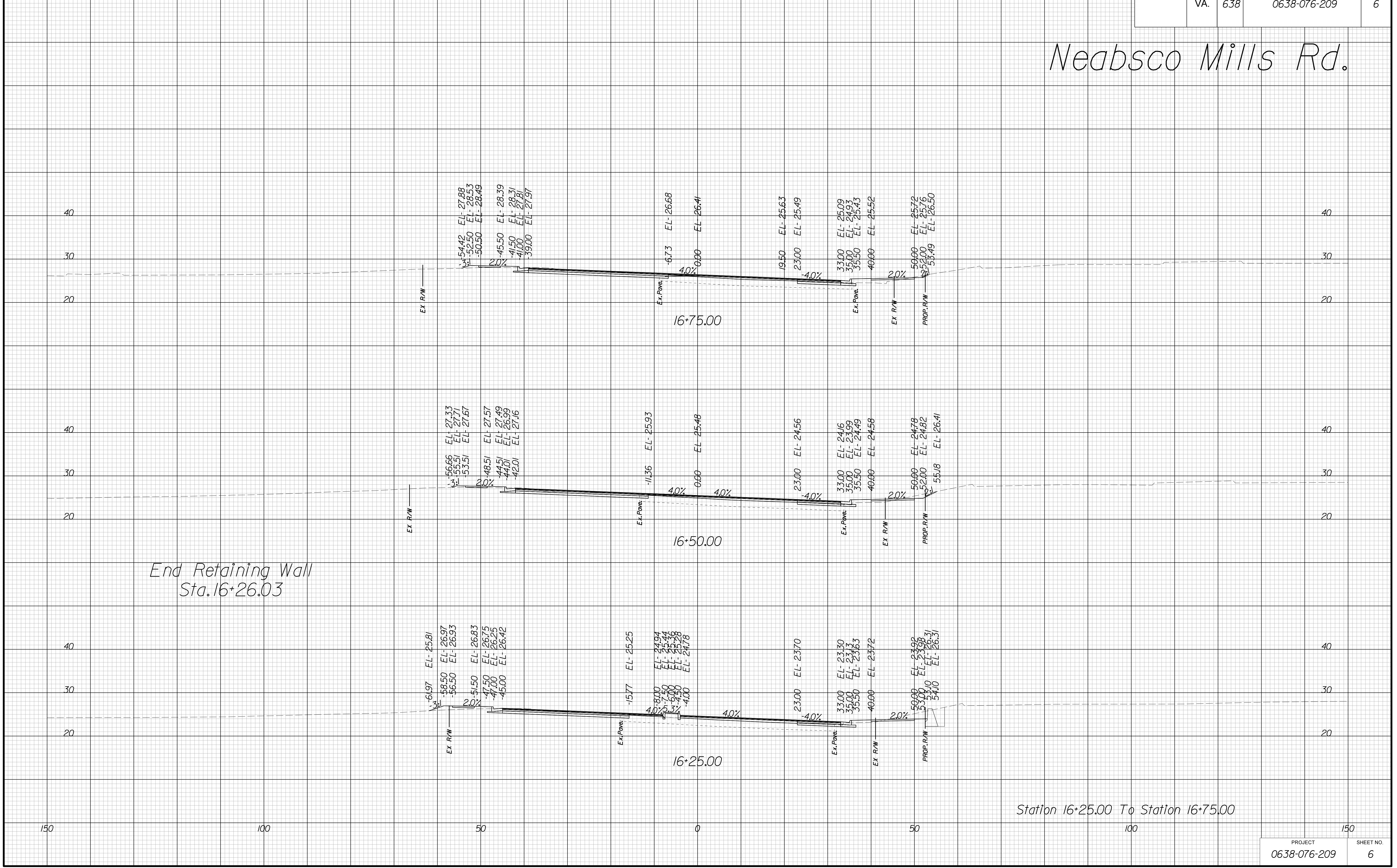
CROSS SECTIONS

SCALE 1 IN. = 10 FT

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

REVISED	STATE	ROUTE	STATE	PROJECT	SHEET NO.
	VA.	638		0638-076-209	6

Neabsco Mills Rd.



End Retaining Wall
Sta. 16+26.03

Station 16+25.00 To Station 16+75.00

PROJECT	SHEET NO.
0638-076-209	6

THESE PLANS ARE UNFINISHED AND UNAPPROVED AND ARE NOT TO BE USED FOR ANY TYPE OF CONSTRUCTION.

R/W PHASE PLANS

PROJECT MANAGER: EWCDOT:Khattab, Shamout, P.E. (703) 792-7193
SURVEYED BY, DATE: BDA: Ryan, Dreelto, L.S. (703) 334-9302; July 3, 2017
DESIGN BY: BDA: Mack, A. Guro, P.E. (703) 334-9288
SUBSURFACE UTILITY BY, DATE: Accurmark (703) 378-0100; August 1, 2017

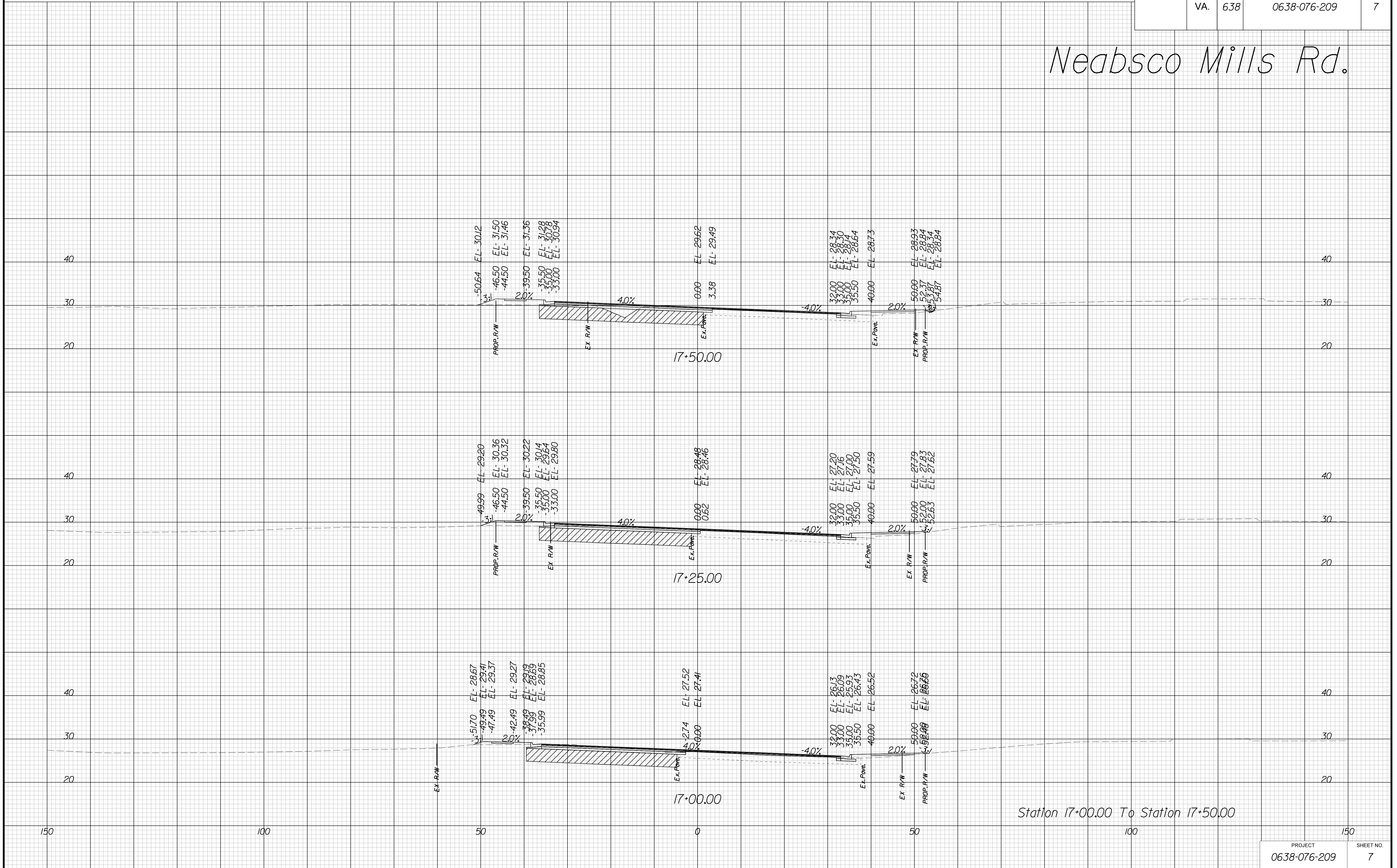
CROSS SECTIONS

SCALE 1 IN. = 10 FT

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

REVISED	STATE	ROUTE	STATE	PROJECT	SHEET NO.
	VA.	638		0638-076-209	7

Neabsco Mills Rd.



Station 17+00.00 To Station 17+50.00

THESE PLANS ARE UNFINISHED AND UNAPPROVED AND ARE NOT TO BE USED FOR ANY TYPE OF CONSTRUCTION.

R/W PHASE PLANS

PROJECT MANAGER: EWCDOT: Khattab, Shamouf, P.E. (703) 792-7193
SURVEYED BY, DATE: BDA: Ryan, Dreello, L.S. (703) 334-9302; July 3, 2017
DESIGN BY: BDA: Mack, A. Guro, P.E. (703) 334-9288
SUBSURFACE UTILITY BY, DATE: Accurmark (703) 378-0100; August 1, 2017

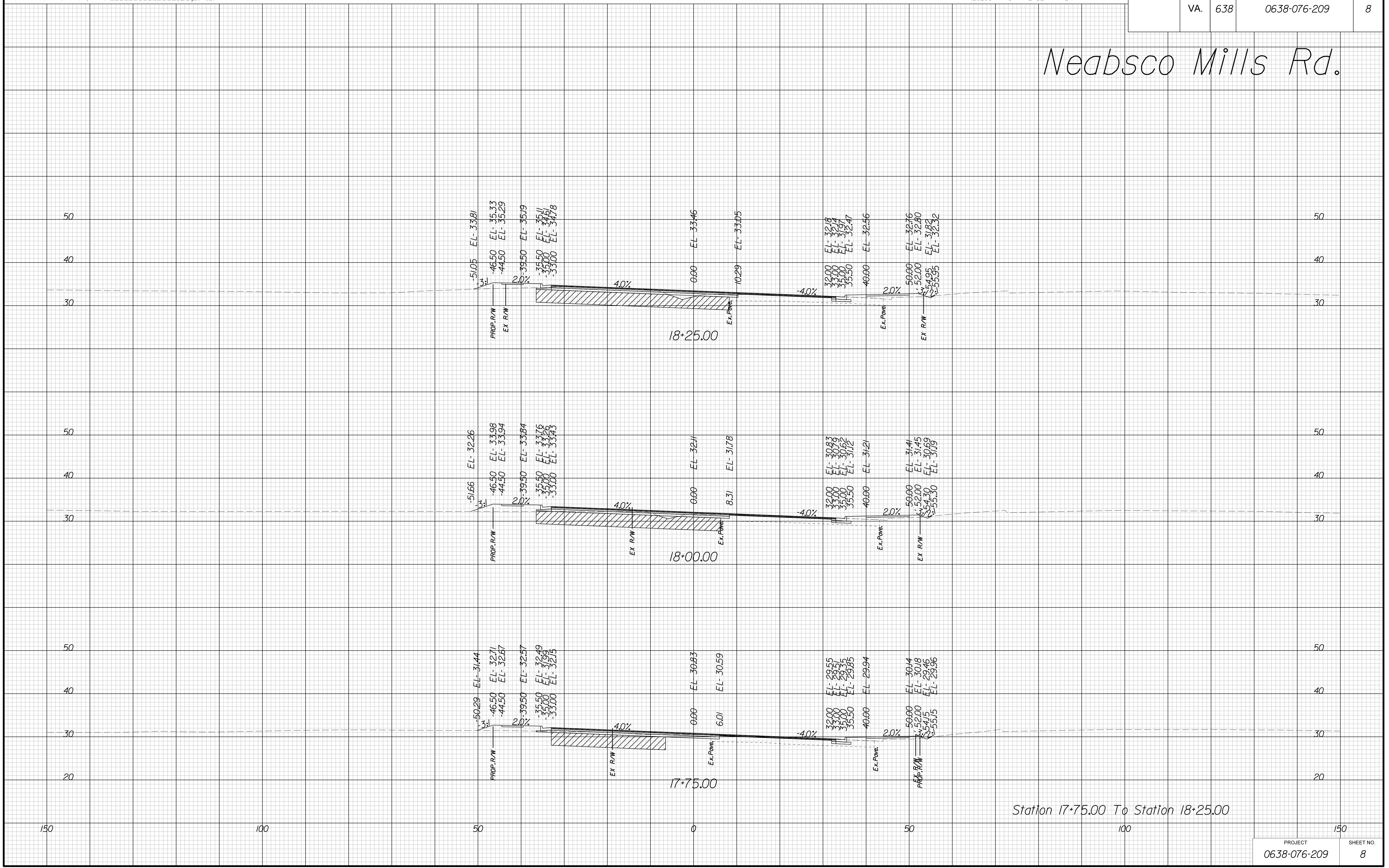
CROSS SECTIONS

SCALE 1 IN. = 10 FT

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

REVISED	STATE	ROUTE	STATE	PROJECT	SHEET NO.
	VA.	638		0638-076-209	8

Neabsco Mills Rd.



Station 17+75.00 To Station 18+25.00

PROJECT	SHEET NO.
0638-076-209	8

THESE PLANS ARE UNFINISHED AND UNAPPROVED AND ARE NOT TO BE USED FOR ANY TYPE OF CONSTRUCTION.

R/W PHASE PLANS

PROJECT MANAGER: EWCDOT: Khattab, Shamout, P.E. (703) 792-7193
SURVEYED BY, DATE: BDA: Ryan, Dreelto, L.S. (703) 334-9302; July 3, 2017
DESIGN BY: BDA: Mack, A. Guro, P.E. (703) 334-9288
SUBSURFACE UTILITY BY, DATE: Accurmark (703) 378-0100; August 1, 2017

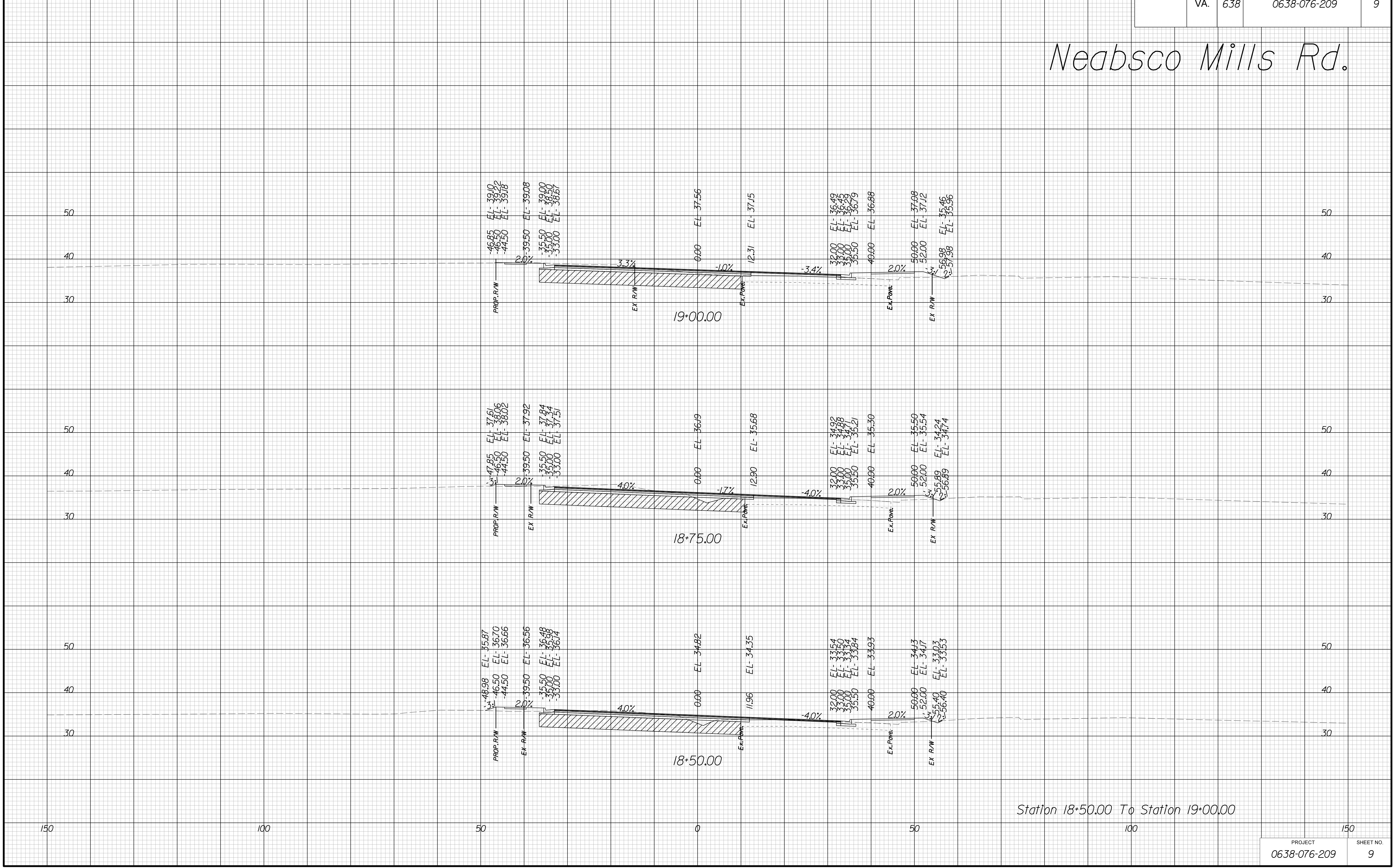
CROSS SECTIONS

SCALE 1 IN. = 10 FT

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

REVISED	STATE	ROUTE	STATE	PROJECT	SHEET NO.
	VA.	638		0638-076-209	9

Neabsco Mills Rd.



Station 18+50.00 To Station 19+00.00

PROJECT	SHEET NO.
0638-076-209	9

THESE PLANS ARE UNFINISHED AND UNAPPROVED AND ARE NOT TO BE USED FOR ANY TYPE OF CONSTRUCTION.

R/W PHASE PLANS

PROJECT MANAGER: EWCDOT:Khattab, Shamout, P.E. (703) 792-7193
SURVEYED BY, DATE: BDA: Ryan, Dreelto, L.S. (703) 334-9302; July 3, 2017
DESIGN BY: BDA: Mack, A. Guro, P.E. (703) 334-9288
SUBSURFACE UTILITY BY, DATE: Accurmark (703) 378-0100; August 1, 2017

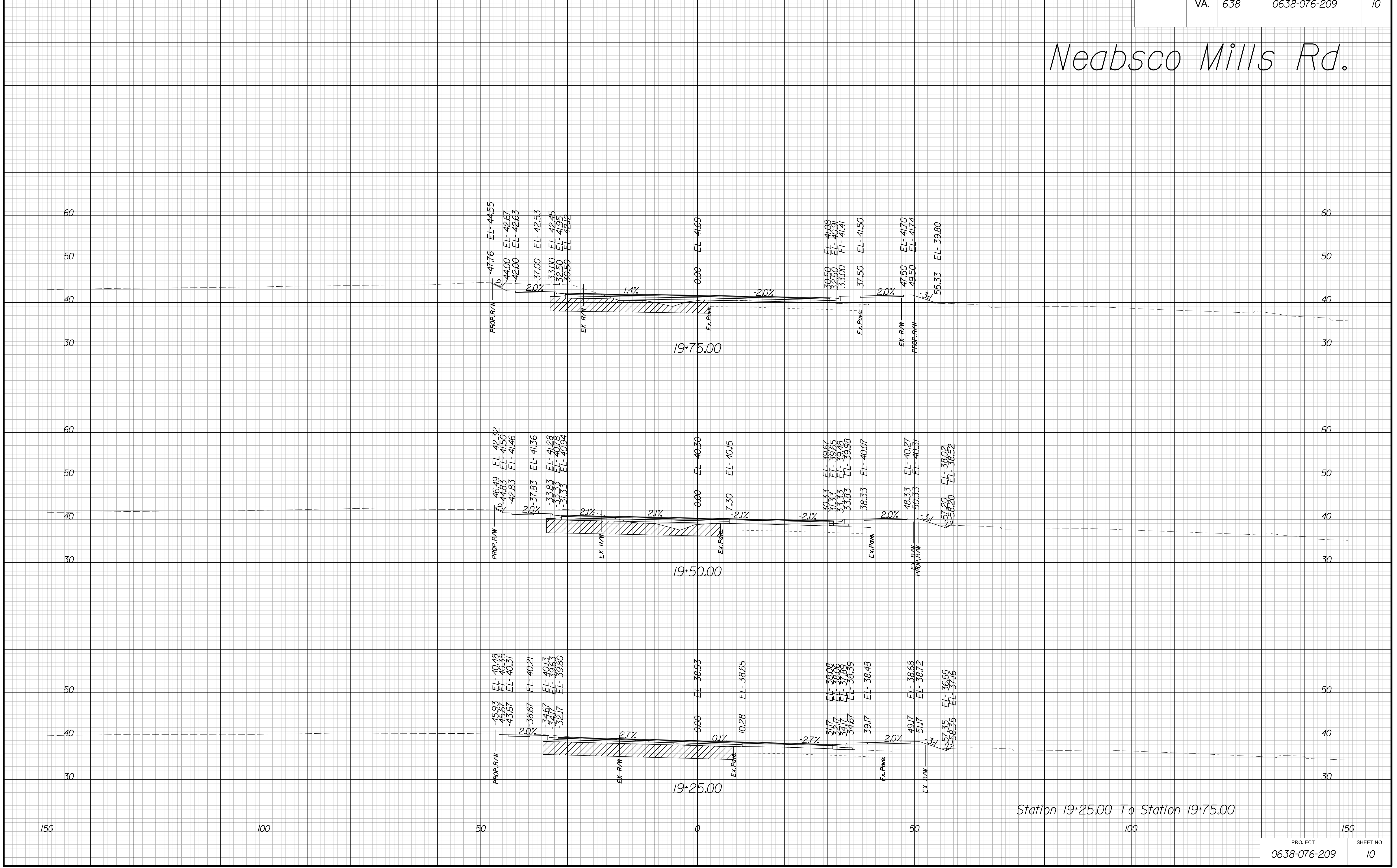
CROSS SECTIONS

SCALE 1 IN. = 10 FT

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

REVISED	STATE	ROUTE	STATE PROJECT	SHEET NO.
	VA.	638	0638-076-209	10

Neabsco Mills Rd.



Station 19+25.00 To Station 19+75.00

THESE PLANS ARE UNFINISHED AND UNAPPROVED AND ARE NOT TO BE USED FOR ANY TYPE OF CONSTRUCTION.

R/W PHASE PLANS

PROJECT MANAGER: EWCDOI: Khattab, Shamouf, P.E. (703) 792-7193
SURVEYED BY, DATE: BDA: Ryan, Dreelto, L.S. (703) 334-9302; July 3, 2017
DESIGN BY: BDA: Mack, A. Guro, P.E. (703) 334-9288
SUBSURFACE UTILITY BY, DATE: Accurmark (703) 378-0100; August 1, 2017

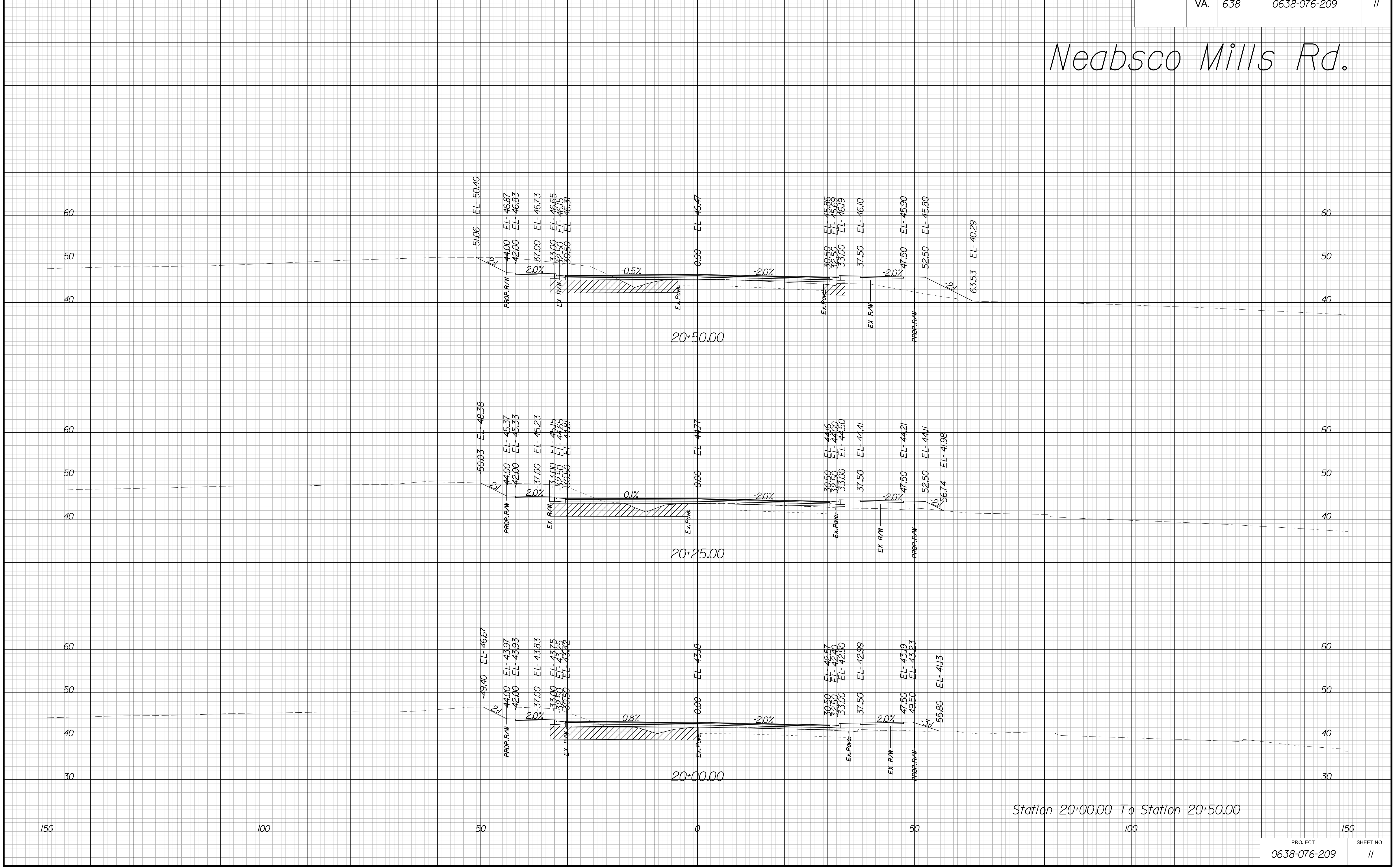
CROSS SECTIONS

SCALE 1 IN. = 10 FT

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

REVISED	STATE	ROUTE	STATE	PROJECT	SHEET NO.
	VA.	638		0638-076-209	11

Neabsco Mills Rd.



Station 20+00.00 To Station 20+50.00

PROJECT	SHEET NO.
0638-076-209	11

THESE PLANS ARE UNFINISHED AND UNAPPROVED AND ARE NOT TO BE USED FOR ANY TYPE OF CONSTRUCTION.

R/W PHASE PLANS

PROJECT MANAGER: EWCDOT:Khattab, Shamout, P.E. (703)792-7193
SURVEYED BY, DATE: BDA: Ryan, Dreelto, L.S. (703)334-9302; July 3, 2017
DESIGN BY: BDA: Mack, A. Guro, P.E. (703)334-9288
SUBSURFACE UTILITY BY, DATE: Accurmark (703)378-0100; August 1, 2017

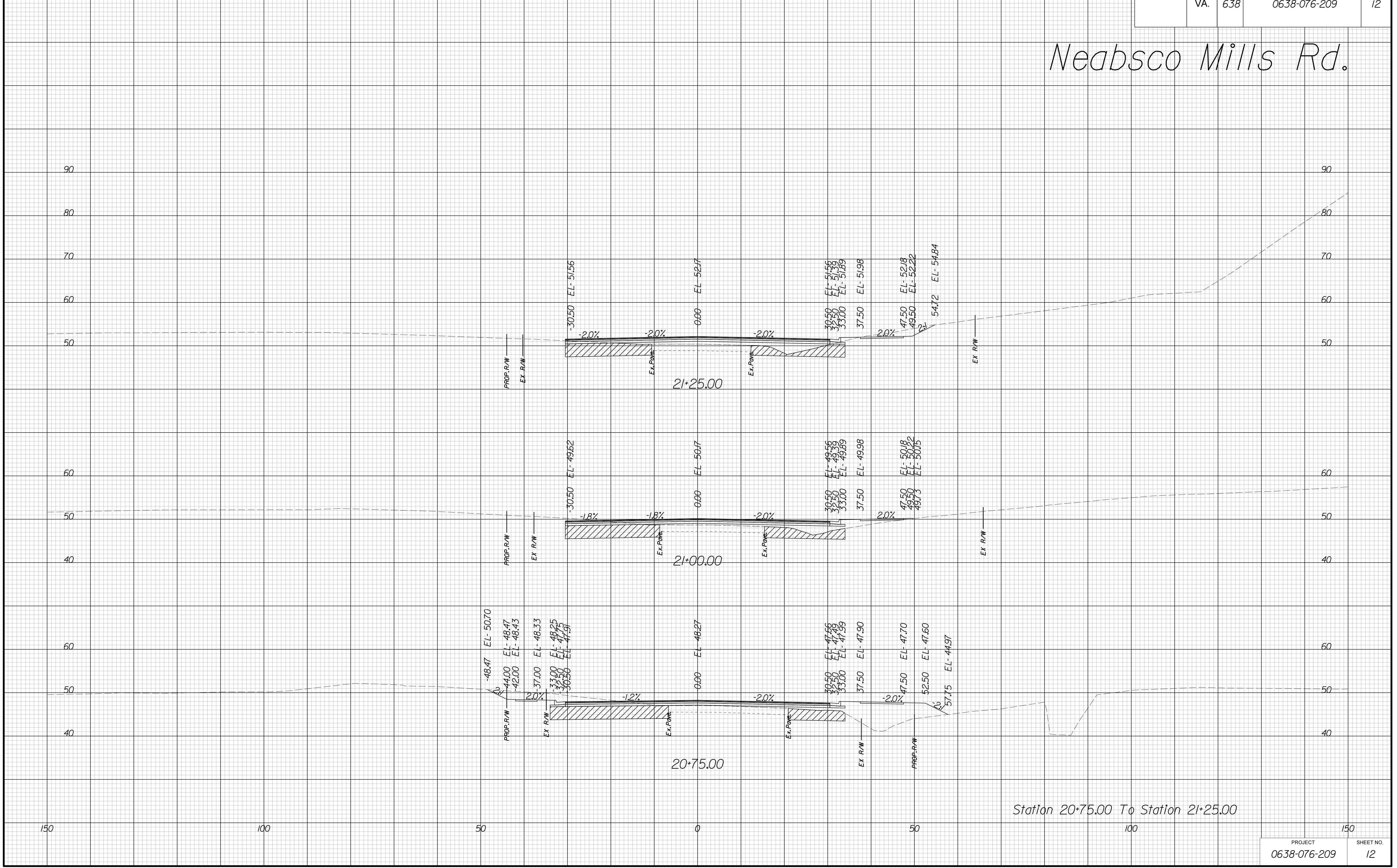
CROSS SECTIONS

SCALE 1 IN. = 10 FT

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

REVISED	STATE	ROUTE	STATE PROJECT	SHEET NO.
	VA.	638	0638-076-209	12

Neabsco Mills Rd.



Station 20+75.00 To Station 21+25.00

PROJECT	SHEET NO.
0638-076-209	12

THESE PLANS ARE UNFINISHED AND UNAPPROVED AND ARE NOT TO BE USED FOR ANY TYPE OF CONSTRUCTION.

R/W PHASE PLANS

PROJECT MANAGER: EWCDOT: Khattab, Shamout, P.E. (703) 792-7193
SURVEYED BY, DATE: BDA: Ryan, Dreello, L.S. (703) 334-9302; July 3, 2017
DESIGN BY: BDA: Mack, A. Guro, P.E. (703) 334-9288
SUBSURFACE UTILITY BY, DATE: Accurmark (703) 378-0100; August 1, 2017

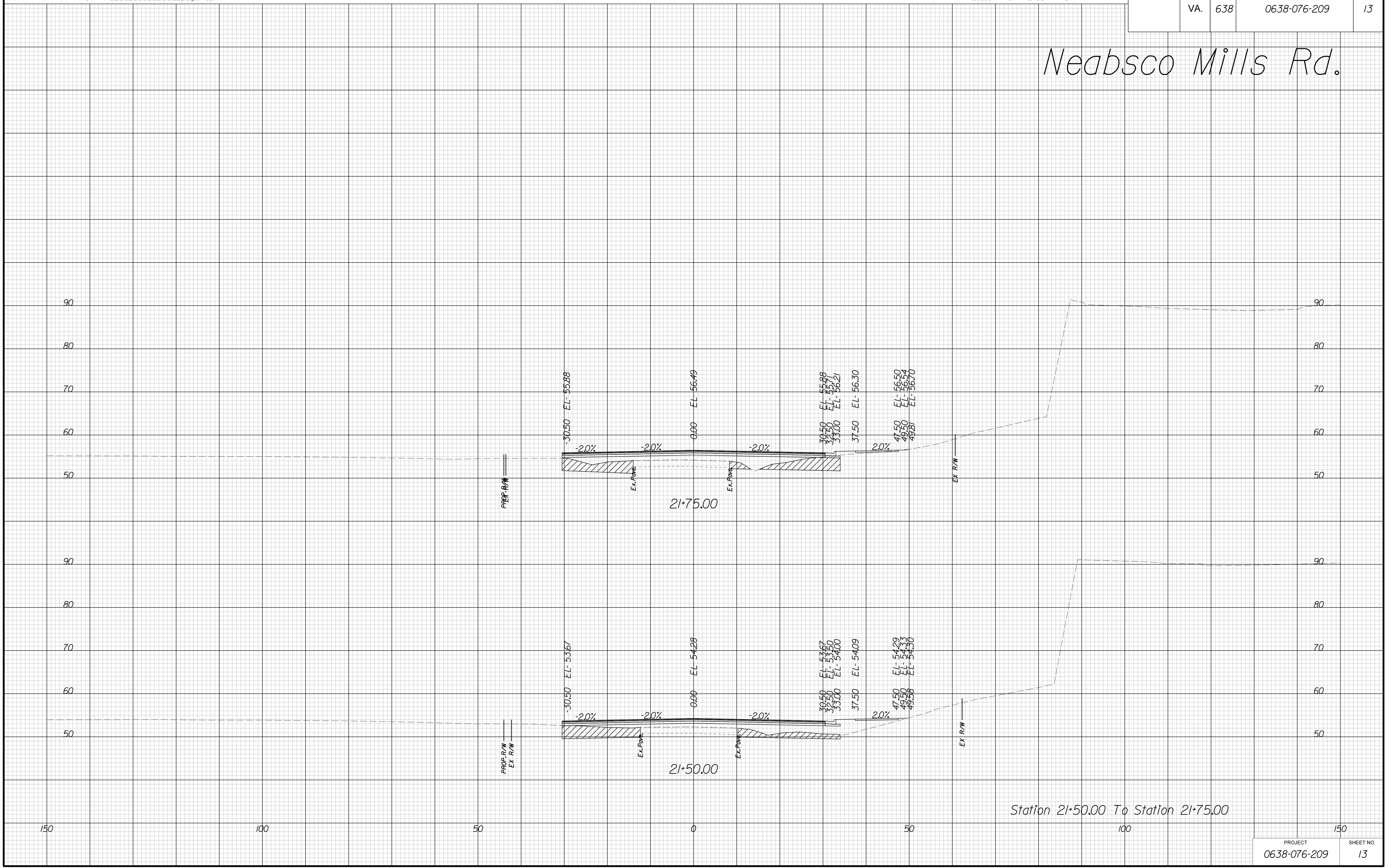
CROSS SECTIONS

SCALE 1 IN. = 10 FT

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

REVISED	STATE	STATE	SHEET NO.
	ROUTE	PROJECT	
	VA.	638	0638-076-209
			13

Neabsco Mills Rd.



THESE PLANS ARE UNFINISHED AND UNAPPROVED AND ARE NOT TO BE USED FOR ANY TYPE OF CONSTRUCTION.

R/W PHASE PLANS

PROJECT MANAGER: EWCDOI:Khattab, Shamout, P.E. (703) 792-7193
SURVEYED BY: DATE BDA: Ryan, Dreelto, L.S. (703) 334-9302; July 3, 2017
DESIGN BY BDA: Mack, A, Guro, P.E. (703) 334-9288
SUBSURFACE UTILITY BY: DATE Accurmark (703) 378-0100; August 1, 2017

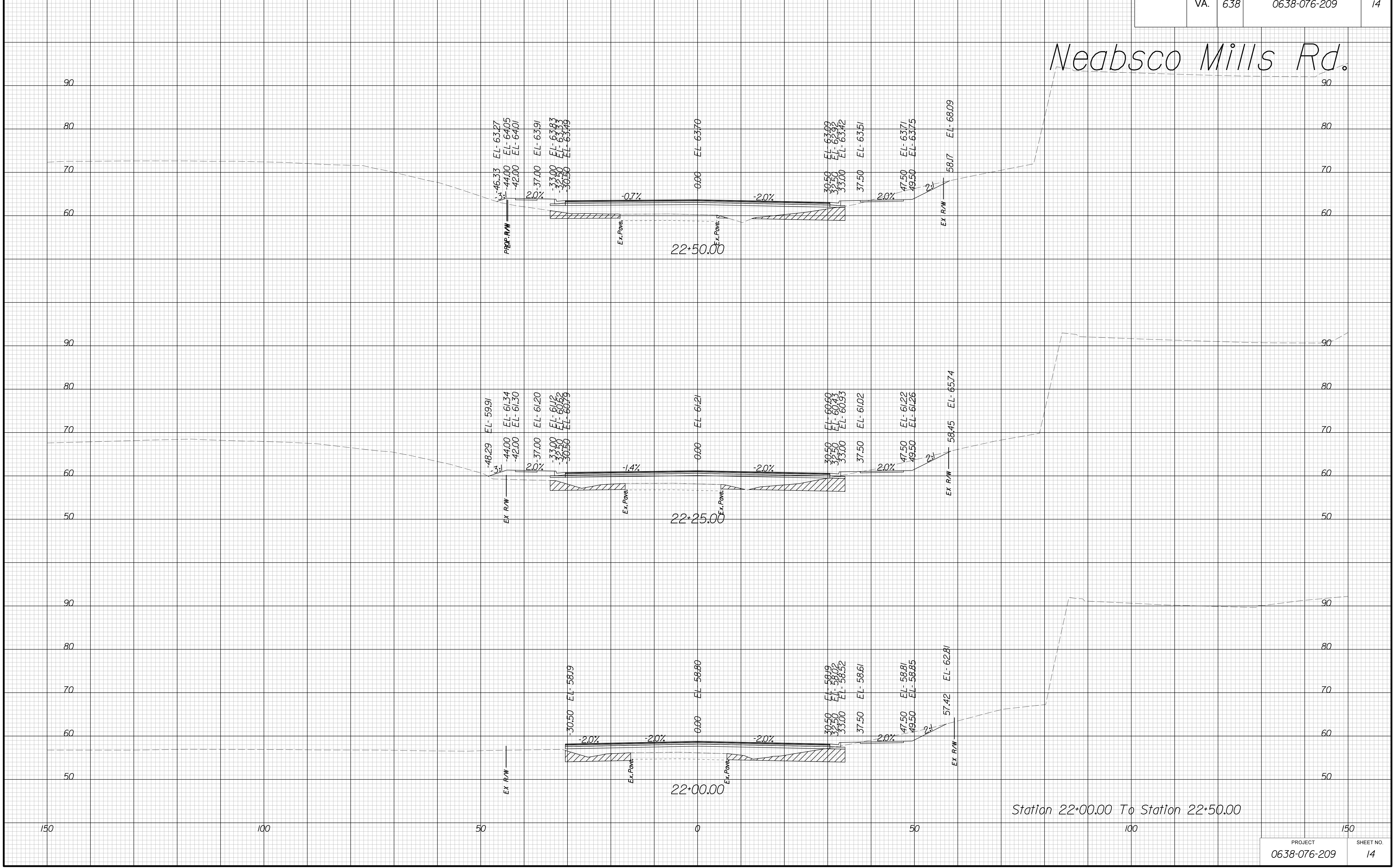
CROSS SECTIONS

SCALE 1 IN. = 10 FT

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

REVISED	STATE	ROUTE	STATE	PROJECT	SHEET NO.
	VA.	638		0638-076-209	14

Neabsco Mills Rd.



Station 22+00.00 To Station 22+50.00

THESE PLANS ARE UNFINISHED AND UNAPPROVED AND ARE NOT TO BE USED FOR ANY TYPE OF CONSTRUCTION.

R/W PHASE PLANS

PROJECT MANAGER: EWCDOT: Khattab, Shamouf, P.E. (703) 792-7193
SURVEYED BY, DATE: BDA: Ryan, Dreelto, L.S. (703) 334-9302; July 3, 2017
DESIGN BY: BDA: Mack, A. Guro, P.E. (703) 334-9288
SUBSURFACE UTILITY BY, DATE: Accurmark (703) 378-0100; August 1, 2017

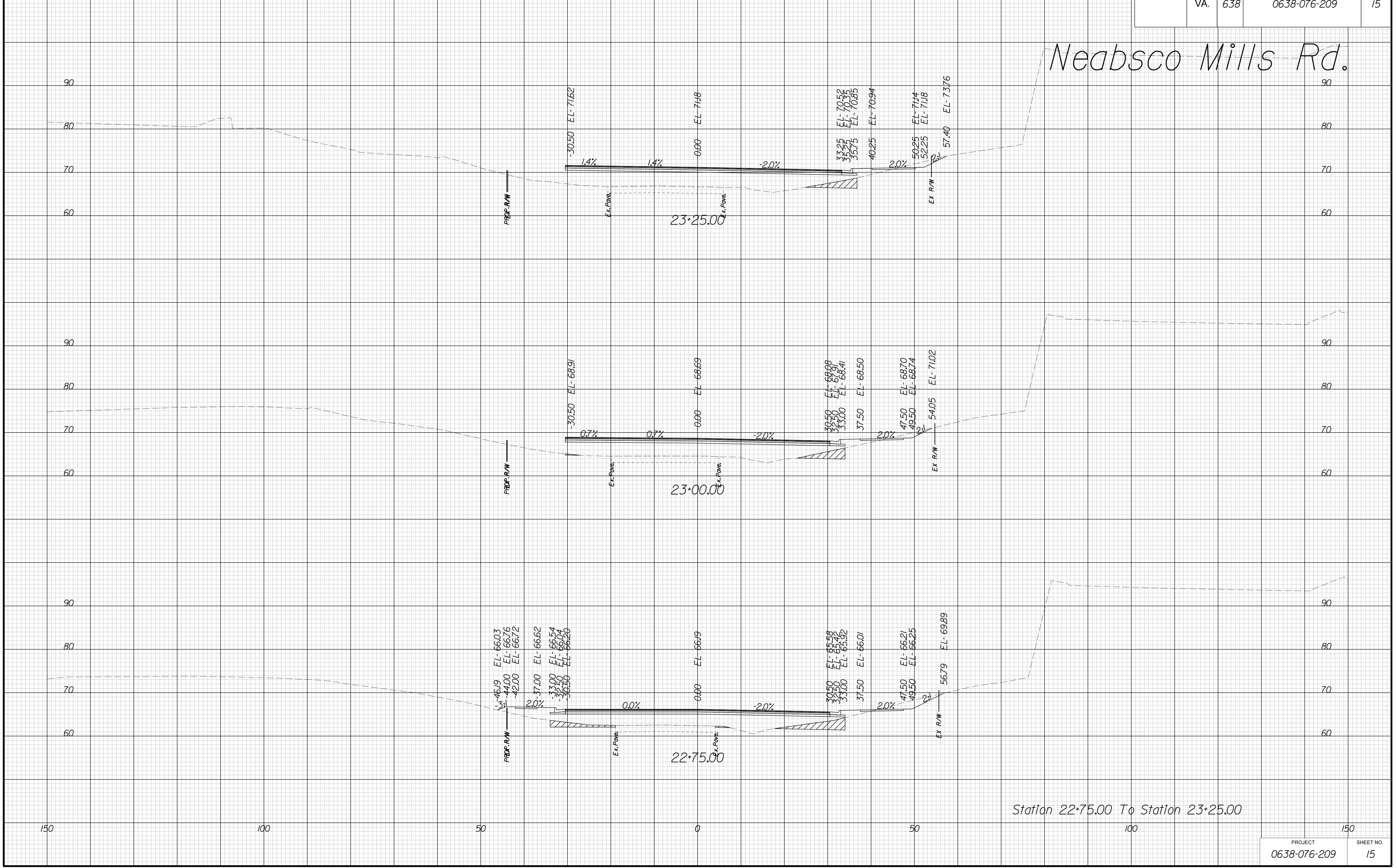
CROSS SECTIONS

SCALE 1 IN. = 10 FT

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

REVISED	STATE	ROUTE	STATE	PROJECT	SHEET NO.
	VA.	638		0638-076-209	15

Neabsco Mills Rd.



Station 22+75.00 To Station 23+25.00

PROJECT	SHEET NO.
0638-076-209	15

THESE PLANS ARE UNFINISHED AND UNAPPROVED AND ARE NOT TO BE USED FOR ANY TYPE OF CONSTRUCTION.

R/W PHASE PLANS

PROJECT MANAGER: EWCDOT:Khattab, Shamouf, P.E. (703) 792-7193
SURVEYED BY, DATE: BDA: Ryan, Dreelto, L.S. (703) 334-9302; July 3, 2017
DESIGN BY: BDA: Mack, A. Guro, P.E. (703) 334-9288
SUBSURFACE UTILITY BY, DATE: Accurmark (703) 378-0100; August 1, 2017

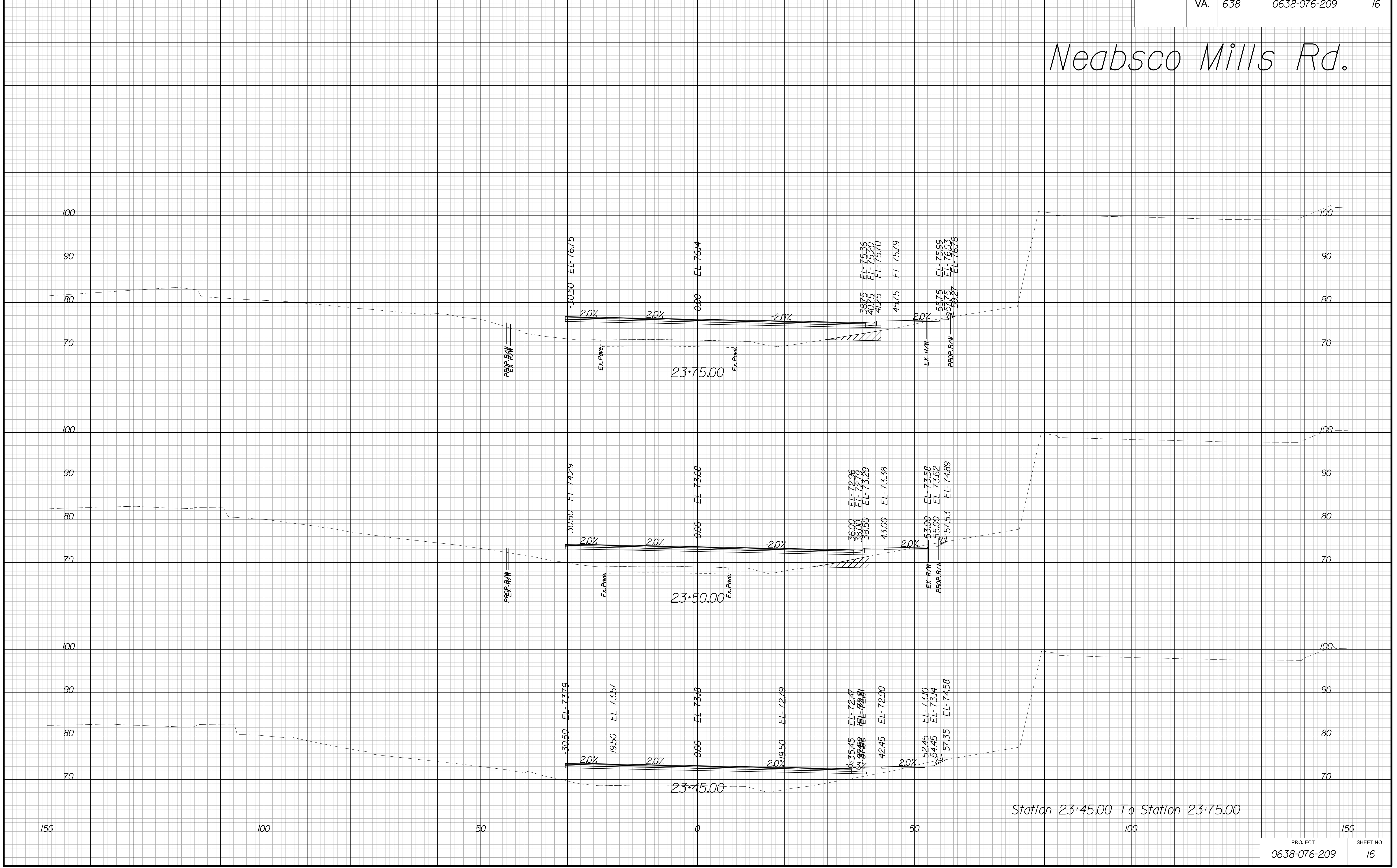
CROSS SECTIONS

SCALE 1 IN. = 10 FT

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

REVISED	STATE	ROUTE	STATE PROJECT	SHEET NO.
	VA.	638	0638-076-209	16

Neabsco Mills Rd.



Station 23+45.00 To Station 23+75.00

THESE PLANS ARE UNFINISHED AND UNAPPROVED AND ARE NOT TO BE USED FOR ANY TYPE OF CONSTRUCTION.

R/W PHASE PLANS

PROJECT MANAGER: EWCDOT:Khattab, Shamouf, P.E. (703) 792-7193
SURVEYED BY, DATE: BDA: Ryan, Dreelto, L.S. (703) 334-9302; July 3, 2017
DESIGN BY: BDA: Mack, A. Guro, P.E. (703) 334-9288
SUBSURFACE UTILITY BY, DATE: Accurmark (703) 378-0100; August 1, 2017

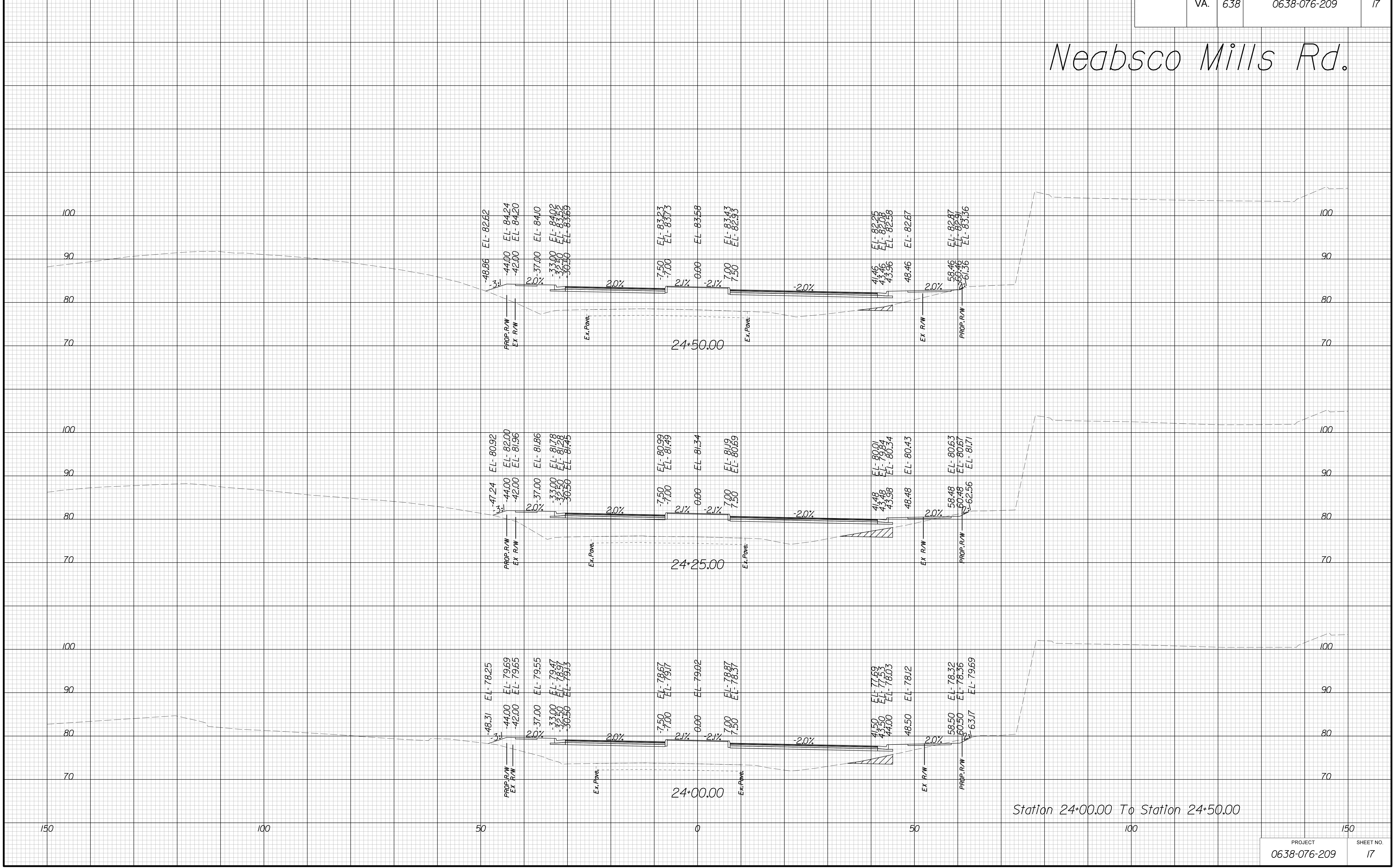
CROSS SECTIONS

SCALE 1 IN. = 10 FT

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

REVISED	STATE	ROUTE	STATE	PROJECT	SHEET NO.
	VA.	638		0638-076-209	17

Neabsco Mills Rd.



Station 24+00.00 To Station 24+50.00

PROJECT	SHEET NO.
0638-076-209	17

THESE PLANS ARE UNFINISHED AND UNAPPROVED AND ARE NOT TO BE USED FOR ANY TYPE OF CONSTRUCTION.

R/W PHASE PLANS

PROJECT MANAGER: EWCDDOT:Khattab, Shamouf, P.E. (703) 792-7193
SURVEYED BY, DATE: BDA: Ryan, Dreello, L.S. (703) 334-9302; July 3, 2017
DESIGN BY: BDA: Mack, A. Guro, P.E. (703) 334-9288
SUBSURFACE UTILITY BY, DATE: Accurmark (703) 378-0100; August 1, 2017

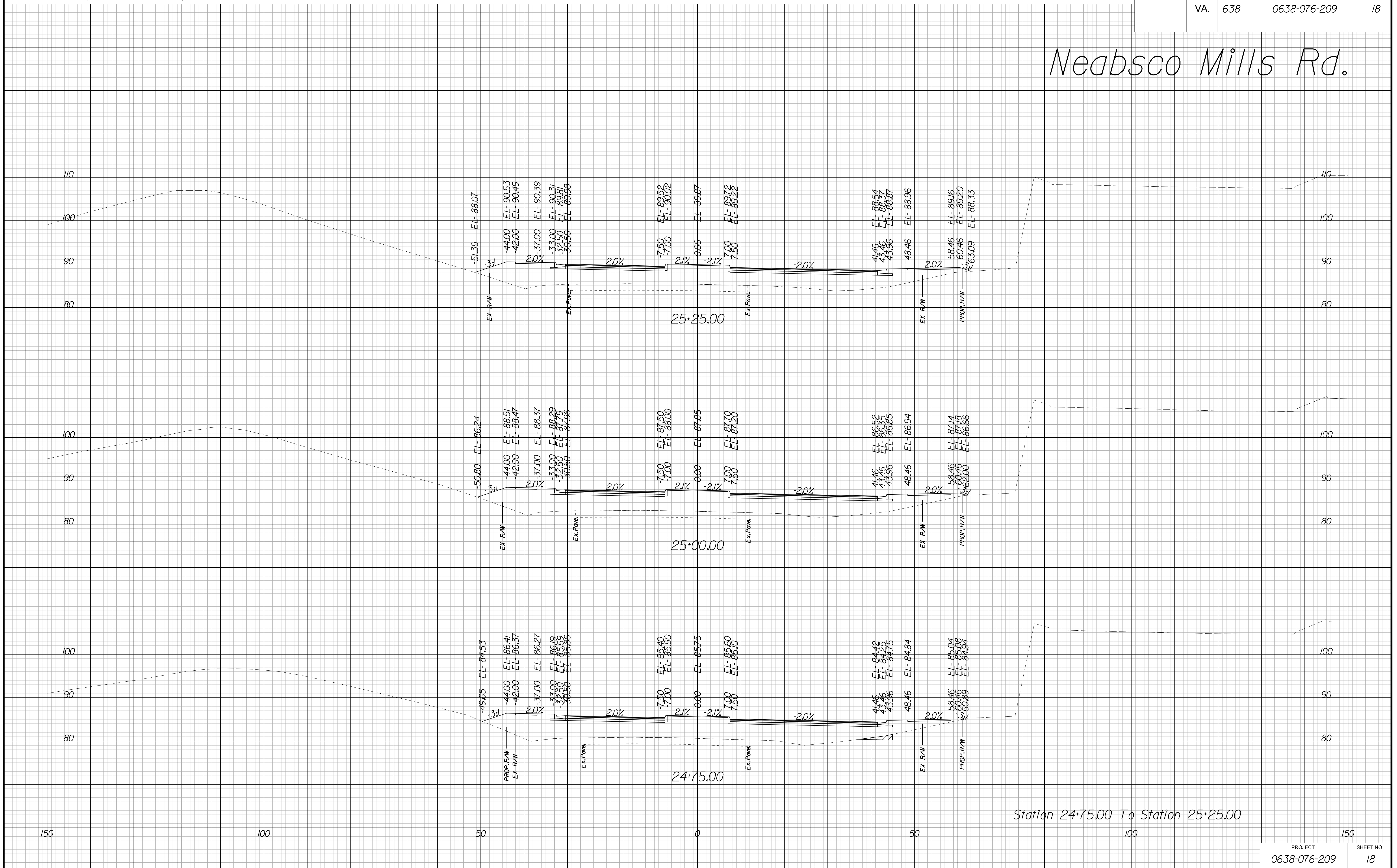
CROSS SECTIONS

SCALE 1 IN. = 10 FT

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

REVISED	STATE	ROUTE	STATE	PROJECT	SHEET NO.
	VA.	638		0638-076-209	18

Neabsco Mills Rd.



Station 24+75.00 To Station 25+25.00

PROJECT	SHEET NO.
0638-076-209	18

THESE PLANS ARE UNFINISHED AND UNAPPROVED AND ARE NOT TO BE USED FOR ANY TYPE OF CONSTRUCTION.

R/W PHASE PLANS

PROJECT MANAGER: EWCDOT:Khattab, Shamouf, P.E. (703) 792-7193
SURVEYED BY, DATE: BDA: Ryan, Dreelto, L.S. (703) 334-9302; July 3, 2017
DESIGN BY: BDA: Mack, A. Guro, P.E. (703) 334-9288
SUBSURFACE UTILITY BY, DATE: Accurmark (703) 378-0100; August 1, 2017

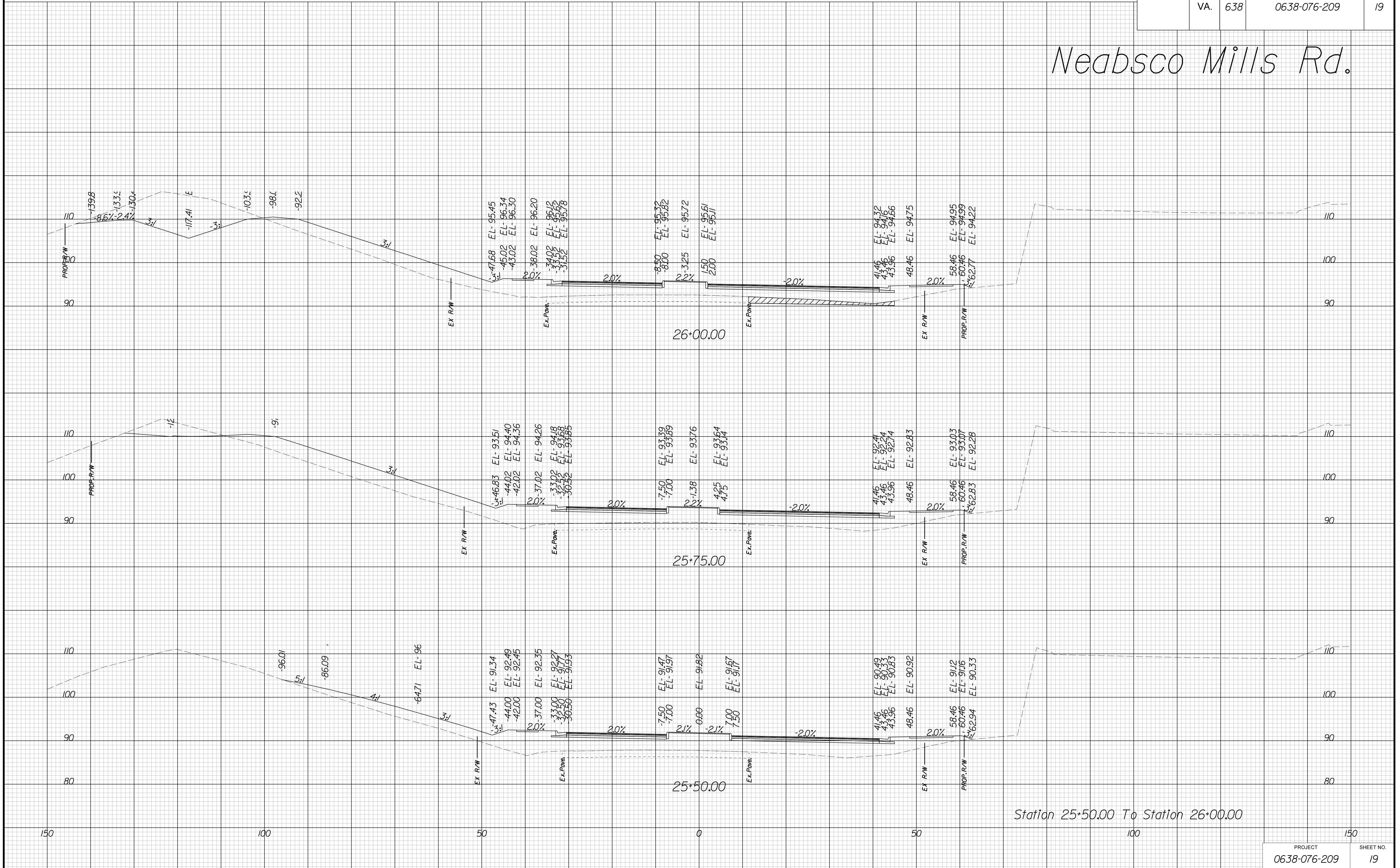
CROSS SECTIONS

SCALE 1 IN. = 10 FT

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

REVISED	STATE	ROUTE	STATE	PROJECT	SHEET NO.
	VA.	638		0638-076-209	19

Neabsco Mills Rd.



Station 25+50.00 To Station 26+00.00

THESE PLANS ARE UNFINISHED AND UNAPPROVED AND ARE NOT TO BE USED FOR ANY TYPE OF CONSTRUCTION.

R/W PHASE PLANS

PROJECT MANAGER: EWCDOT:Khattab, Shamouf, P.E. (703) 792-7193
SURVEYED BY: DATE BDA: Ryan, Dreelto, L.S. (703) 334-9302; July 3, 2017
DESIGN BY: BDA: Mack, A Guro, P.E. (703) 334-9288
SUBSURFACE UTILITY BY: DATE: Accurmark (703) 378-0100; August 1, 2017

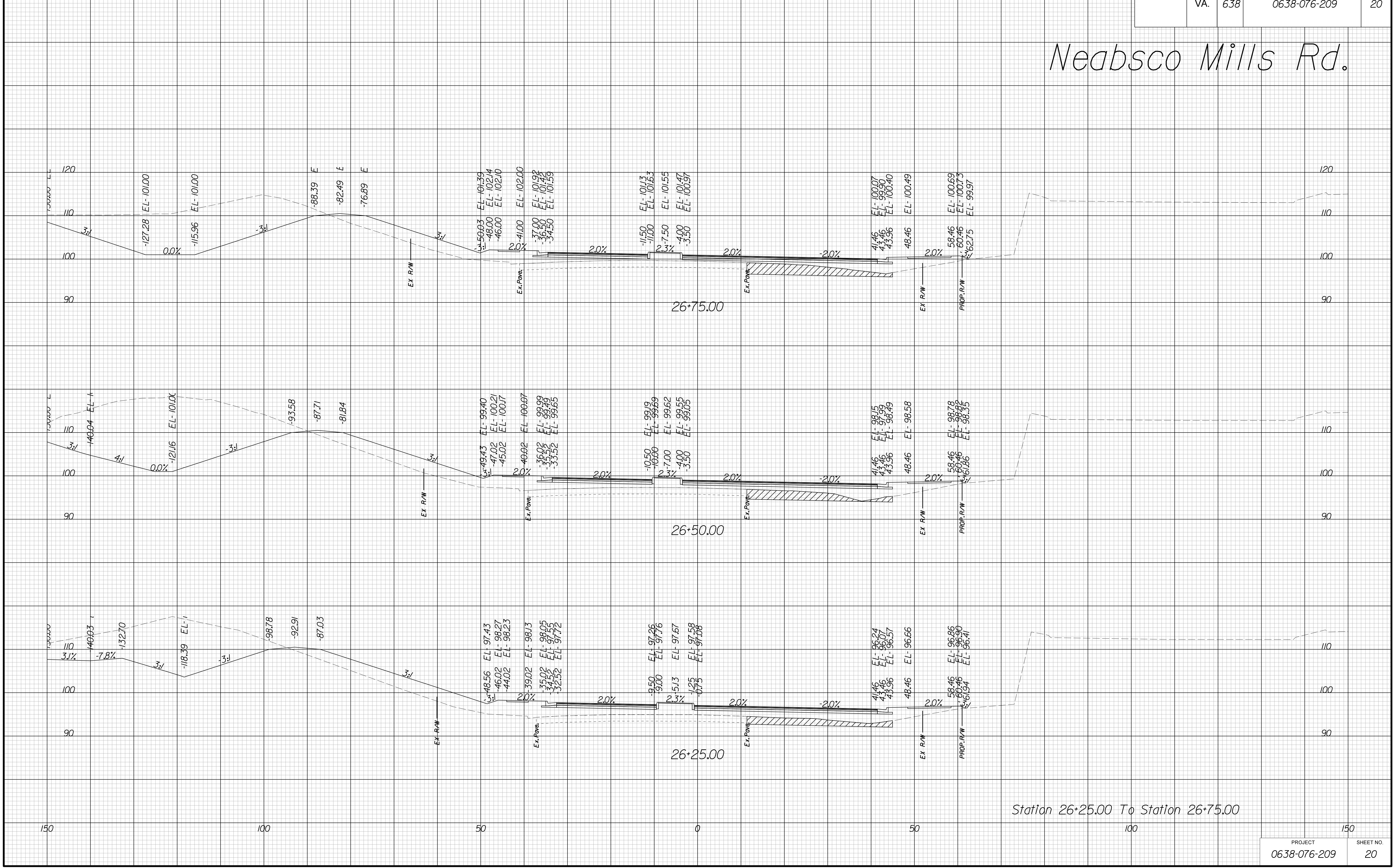
CROSS SECTIONS

SCALE 1 IN. = 10 FT

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

REVISED	STATE	ROUTE	STATE	PROJECT	SHEET NO.
	VA.	638		0638-076-209	20

Neabsco Mills Rd.



Station 26+25.00 To Station 26+75.00

PROJECT	SHEET NO.
0638-076-209	20

THESE PLANS ARE UNFINISHED AND UNAPPROVED AND ARE NOT TO BE USED FOR ANY TYPE OF CONSTRUCTION.

R/W PHASE PLANS

PROJECT MANAGER: BWCDO1:Khattab, Shamouf, P.E. (703) 792-7193
SURVEYED BY: DATE BDA: Ryan, Dreelto, L.S. (703) 334-9302; July 3, 2017
DESIGN BY: BDA: Mack, A. Guro, P.E. (703) 334-9288
SUBSURFACE UTILITY BY: DATE: Accurmark (703) 378-0100; August 1, 2017

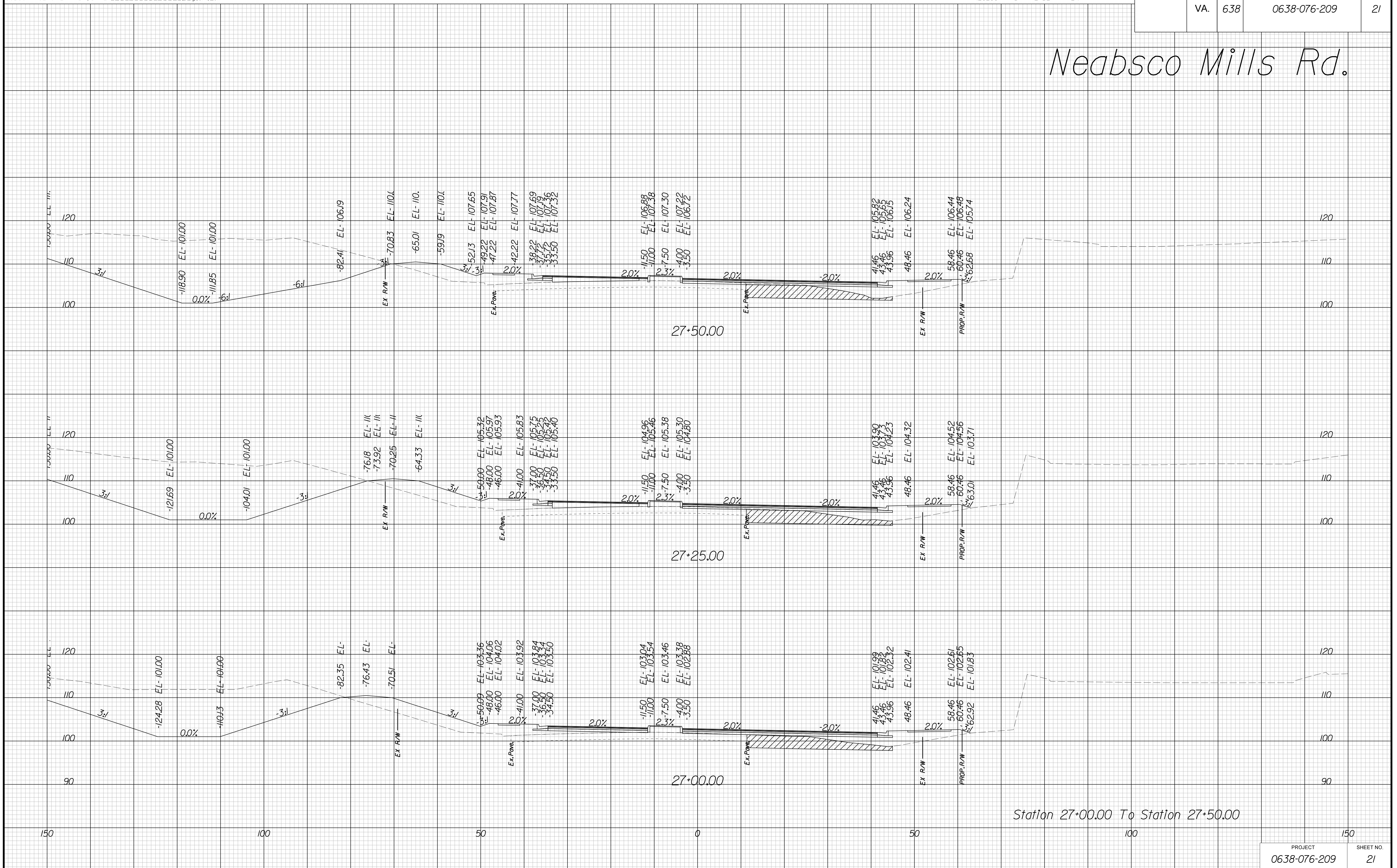
CROSS SECTIONS

SCALE 1 IN. = 10 FT

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

REVISED	STATE	ROUTE	STATE	PROJECT	SHEET NO.
	VA.	638		0638-076-209	21

Neabsco Mills Rd.



Station 27+00.00 To Station 27+50.00

PROJECT	SHEET NO.
0638-076-209	21

THESE PLANS ARE UNFINISHED AND UNAPPROVED AND ARE NOT TO BE USED FOR ANY TYPE OF CONSTRUCTION.

R/W PHASE PLANS

PROJECT MANAGER: EWCDOT: Khattab, Shamouf, P.E. (703) 792-7193
SURVEYED BY, DATE: BDA: Ryan, Dreello, L.S. (703) 334-9302; July 3, 2017
DESIGN BY: BDA: Mack, Guro, P.E. (703) 334-9288
SUBSURFACE UTILITY BY, DATE: Accurmark (703) 378-0100; August 1, 2017

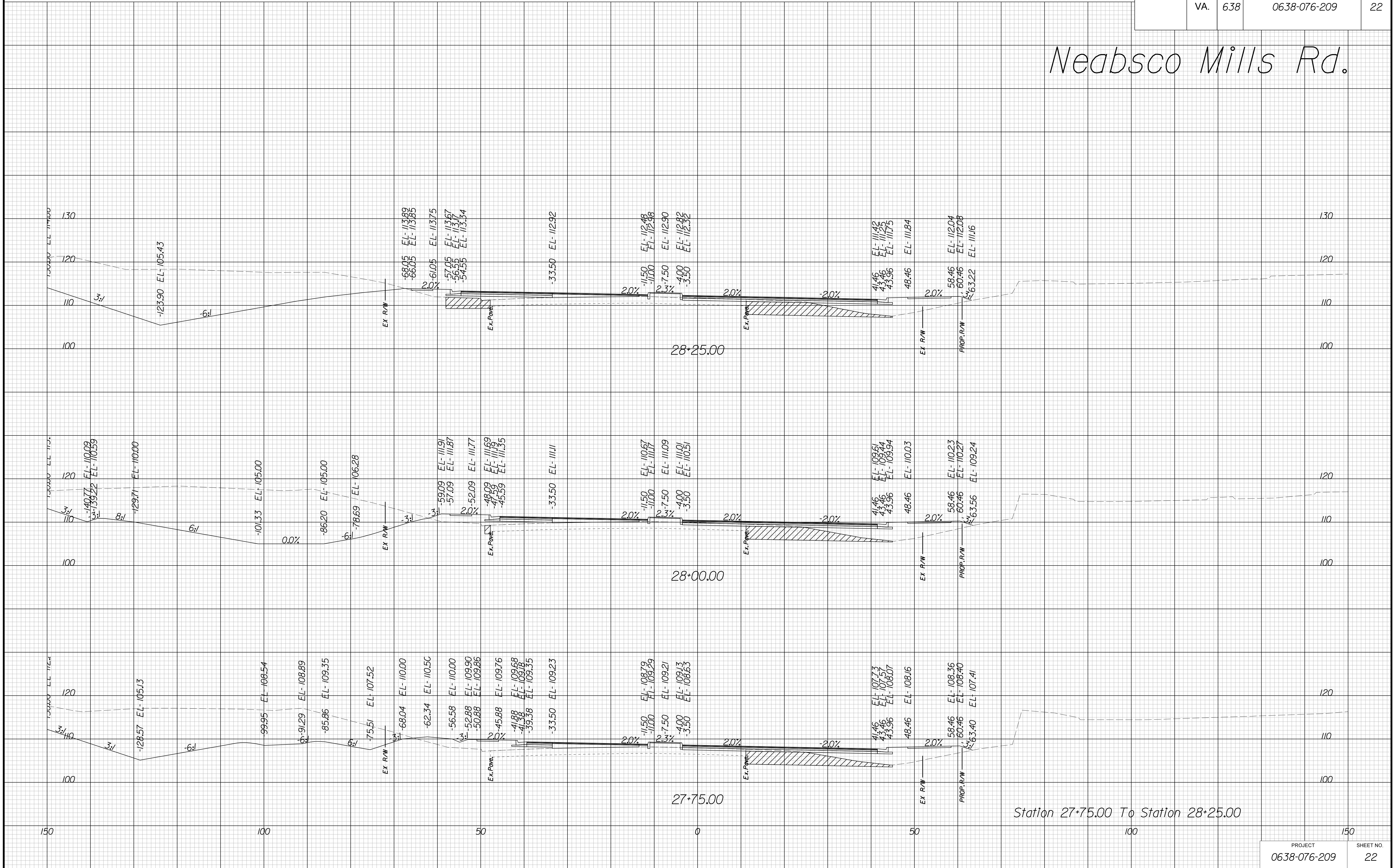
CROSS SECTIONS

SCALE 1 IN. = 10 FT

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

REVISED	STATE	ROUTE	STATE	PROJECT	SHEET NO.
	VA.	638		0638-076-209	22

Neabsco Mills Rd.



Station 27+75.00 To Station 28+25.00

THESE PLANS ARE UNFINISHED AND UNAPPROVED AND ARE NOT TO BE USED FOR ANY TYPE OF CONSTRUCTION.

R/W PHASE PLANS

PROJECT MANAGER: EWCDOT:Khattab, Shamouf, P.E. (703) 792-7193
SURVEYED BY, DATE: BDA: Ryan, Dreello, L.S. (703) 334-9302; July 3, 2017
DESIGN BY: BDA: Mack, A. Guro, P.E. (703) 334-9288
SUBSURFACE UTILITY BY, DATE: Accurmark (703) 378-0100; August 1, 2017

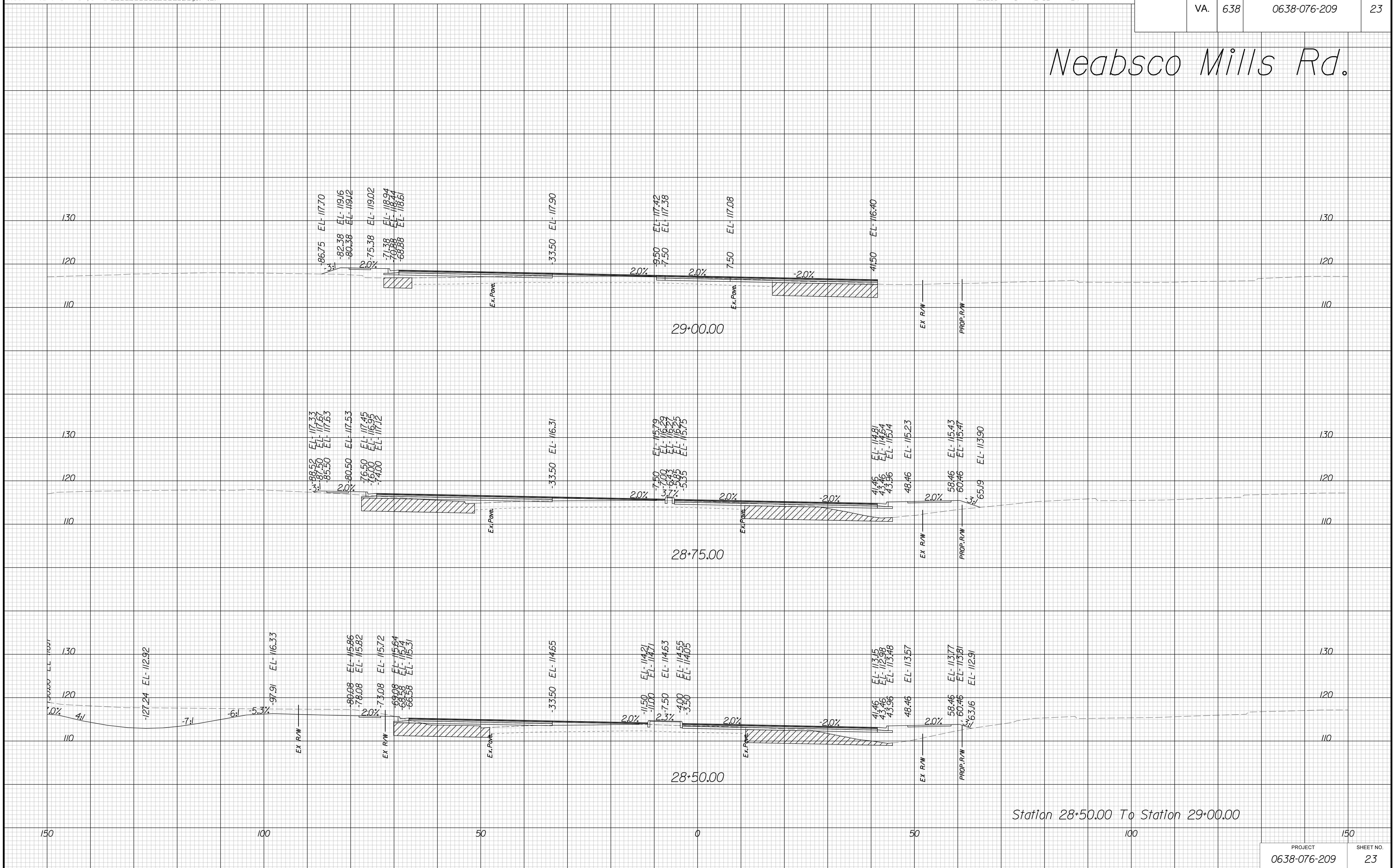
CROSS SECTIONS

SCALE 1 IN. = 10 FT

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

REVISED	STATE	ROUTE	STATE	PROJECT	SHEET NO.
	VA.	638		0638-076-209	23

Neabsco Mills Rd.



Station 28+50.00 To Station 29+00.00

THESE PLANS ARE UNFINISHED AND UNAPPROVED AND ARE NOT TO BE USED FOR ANY TYPE OF CONSTRUCTION.

R/W PHASE PLANS

PROJECT MANAGER: EWCDDOT: Khattab, Shamout, P.E. (703) 792-7193
SURVEYED BY, DATE: BDA: Ryan, Dreelto, L.S. (703) 334-9302; July 3, 2017
DESIGN BY: BDA: Mack, A. Guro, P.E. (703) 334-9288
SUBSURFACE UTILITY BY, DATE: Accurmark (703) 378-0100; August 1, 2017

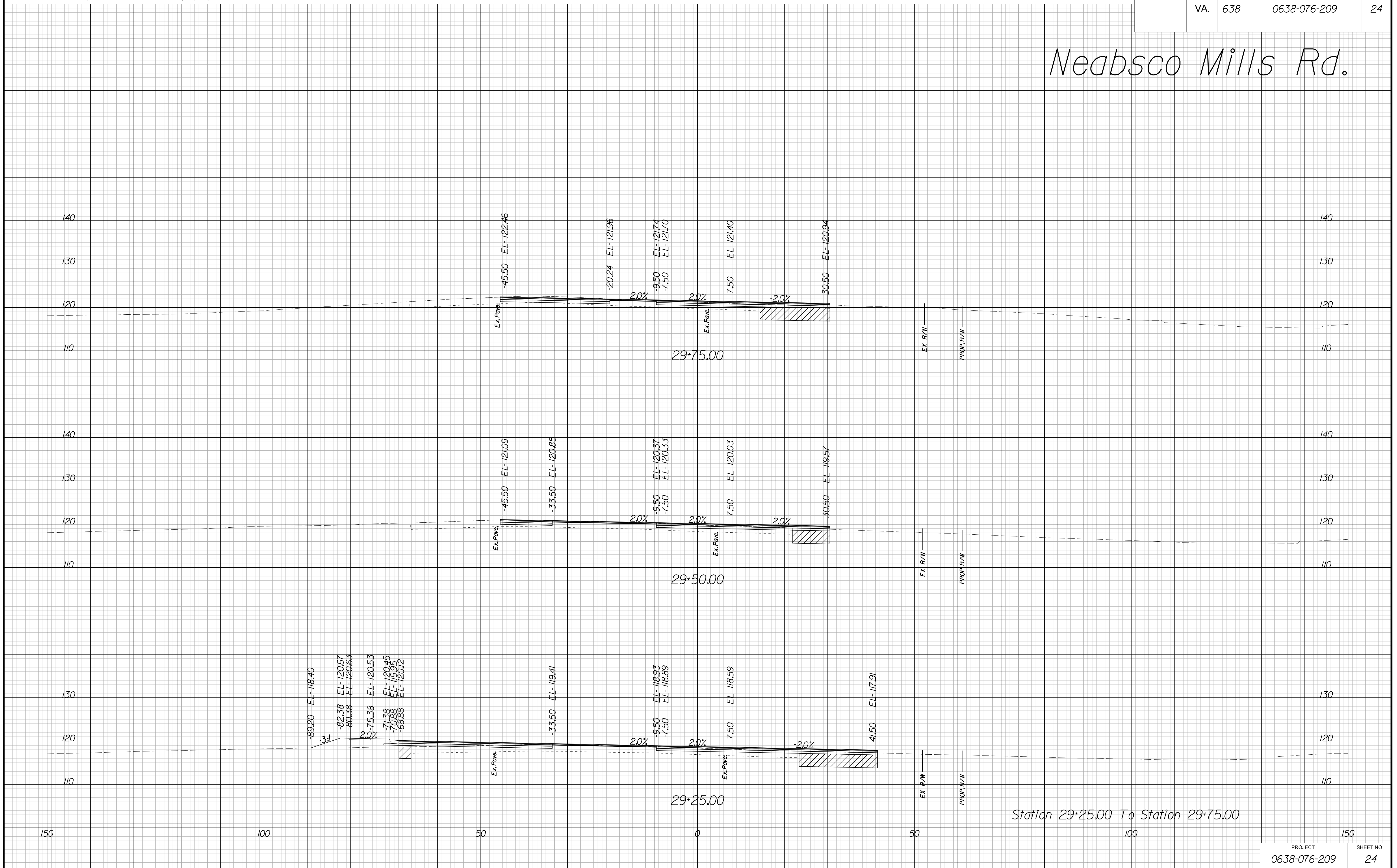
CROSS SECTIONS

SCALE 1 IN. = 10 FT

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

REVISED	STATE	ROUTE	STATE	PROJECT	SHEET NO.
	VA.	638		0638-076-209	24

Neabsco Mills Rd.



Station 29+25.00 To Station 29+75.00

PROJECT	SHEET NO.
0638-076-209	24

THESE PLANS ARE UNFINISHED AND UNAPPROVED AND ARE NOT TO BE USED FOR ANY TYPE OF CONSTRUCTION.

R/W PHASE PLANS

PROJECT MANAGER: EWCDOT:Khattab, Shamout, P.E. (703) 792-7193
SURVEYED BY, DATE: BDA: Ryan, Dreelto, L.S. (703) 334-9302; July 3, 2017
DESIGN BY: BDA: Mack, A. Guro, P.E. (703) 334-9288
SUBSURFACE UTILITY BY, DATE: Accurmark (703) 378-0100; August 1, 2017

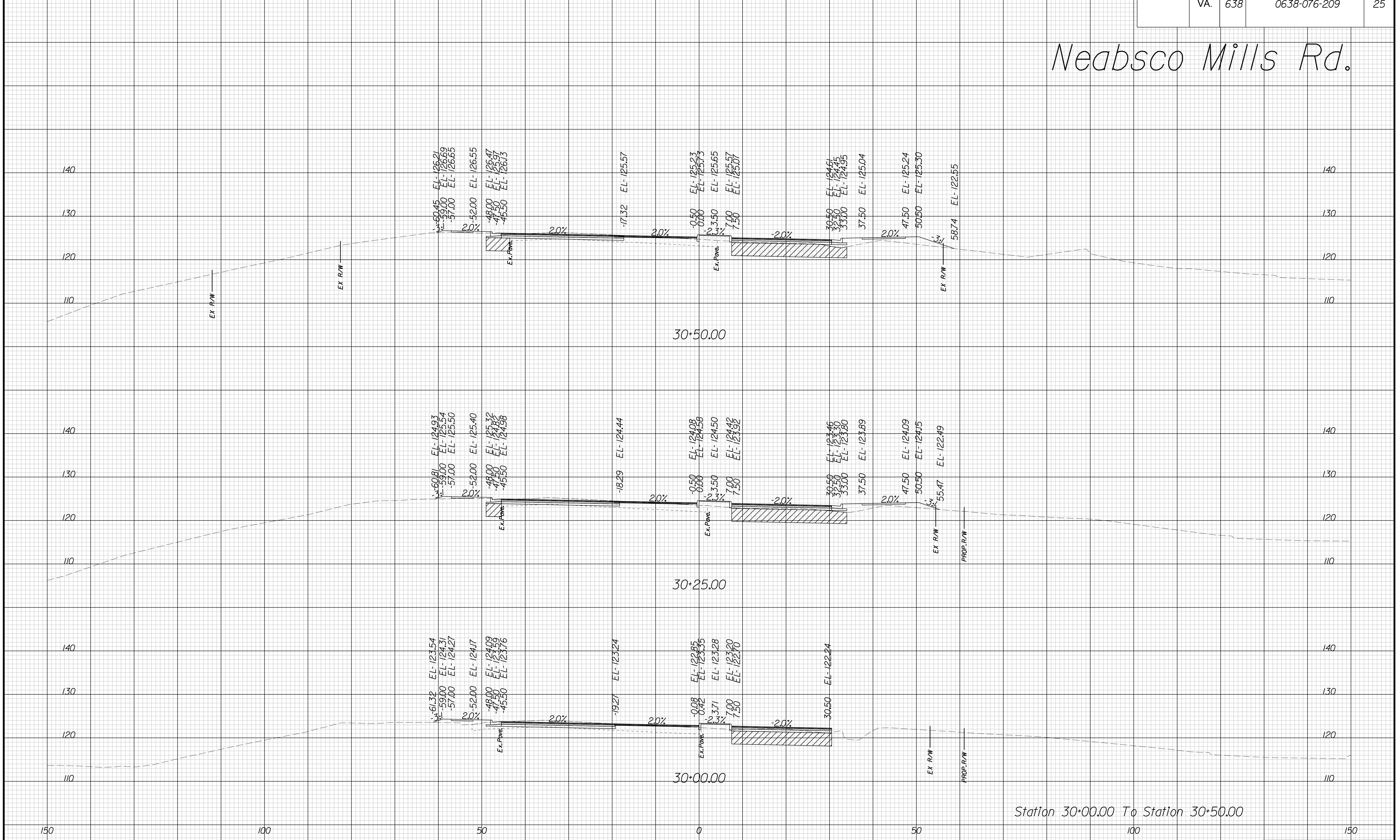
CROSS SECTIONS

SCALE 1 IN. = 10 FT

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

REVISED	STATE	ROUTE	STATE	PROJECT	SHEET NO.
	VA.	638		0638-076-209	25

Neabsco Mills Rd.



Station 30+00.00 To Station 30+50.00

PROJECT	SHEET NO.
0638-076-209	25

THESE PLANS ARE UNFINISHED AND UNAPPROVED AND ARE NOT TO BE USED FOR ANY TYPE OF CONSTRUCTION.

R/W PHASE PLANS

PROJECT MANAGER: EWCDOT: Khattab, Shamout, P.E. (703) 792-7193
SURVEYED BY: DATE: BDA: Ryan, Dreelto, L.S. (703) 334-9302; July 3, 2017
DESIGN BY: BDA: Mack, A. Guro, P.E. (703) 334-9288
SUBSURFACE UTILITY BY: DATE: Accurmark (703) 378-0100; August 1, 2017

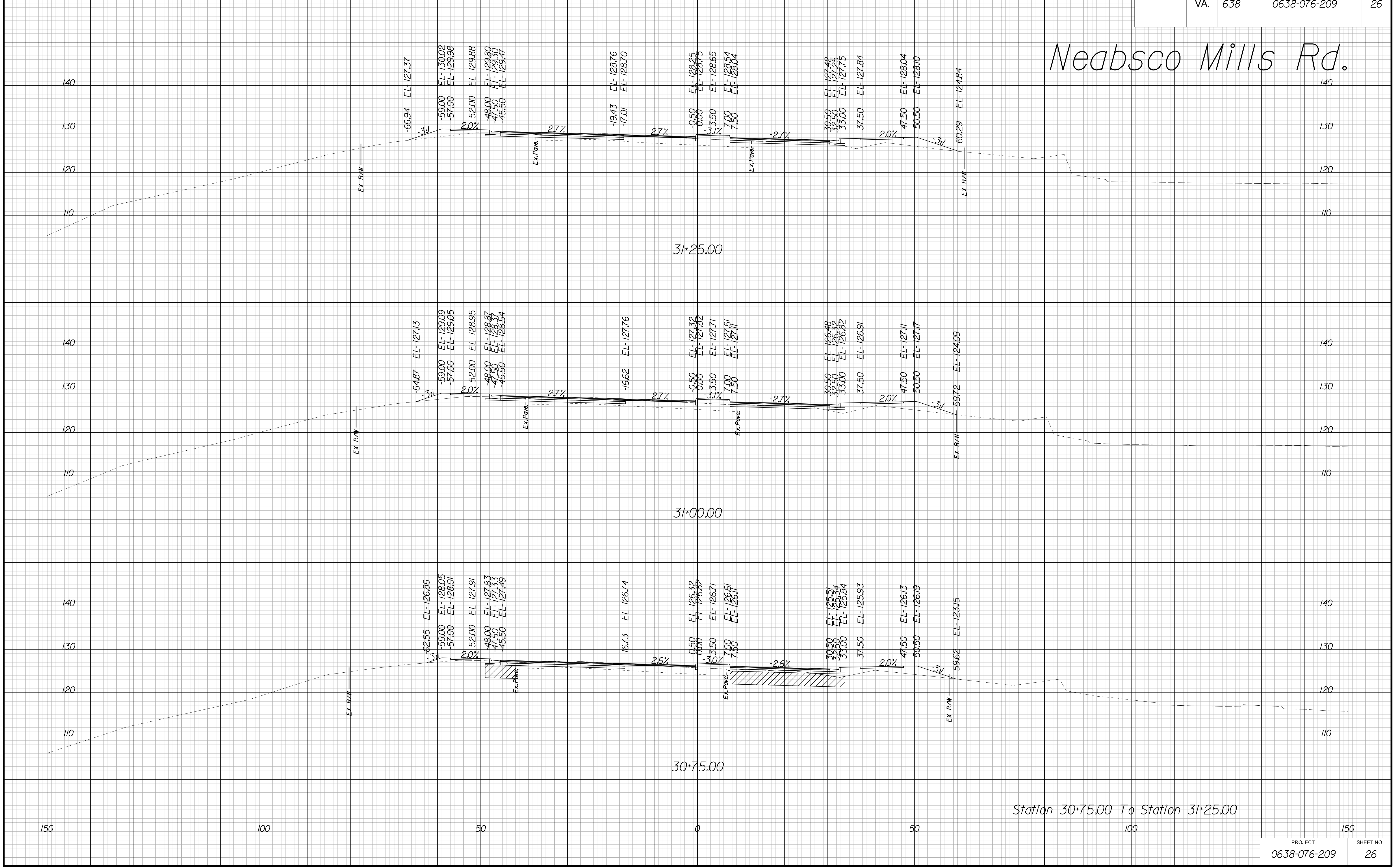
CROSS SECTIONS

SCALE 1 IN. = 10 FT

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

REVISED	STATE	ROUTE	STATE	PROJECT	SHEET NO.
	VA.	638		0638-076-209	26

Neabsco Mills Rd.



Station 30+75.00 To Station 31+25.00

PROJECT	SHEET NO.
0638-076-209	26

THESE PLANS ARE UNFINISHED AND UNAPPROVED AND ARE NOT TO BE USED FOR ANY TYPE OF CONSTRUCTION.

R/W PHASE PLANS

PROJECT MANAGER: EWCDOT:Khattab, Shamout, P.E. (703) 792-7193
SURVEYED BY, DATE: BDA: Ryan, Dreelto, L.S. (703) 334-9302; July 3, 2017
DESIGN BY: BDA: Mack, A. Guro, P.E. (703) 334-9288
SUBSURFACE UTILITY BY, DATE: Accurmark (703) 378-0100; August 1, 2017

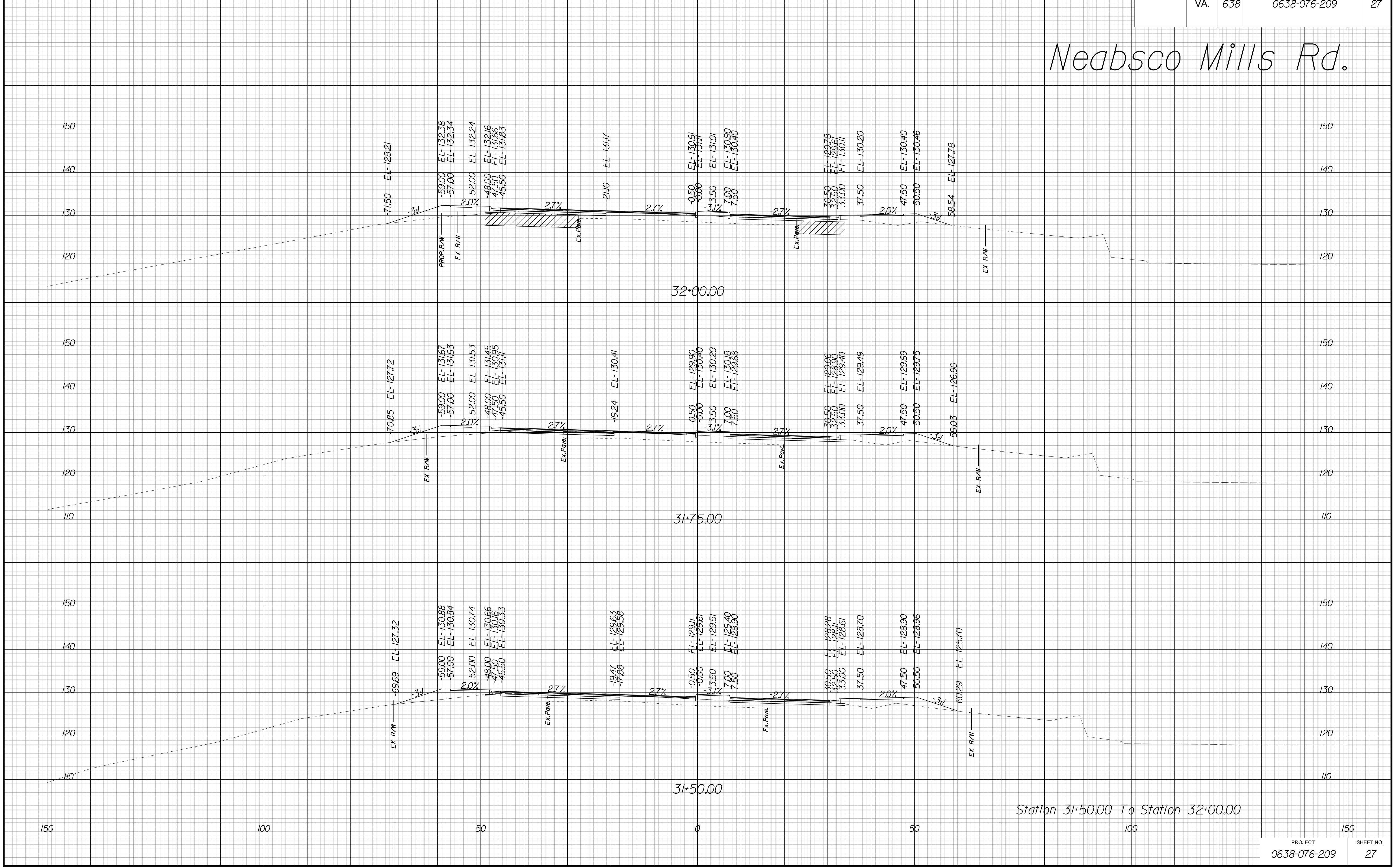
CROSS SECTIONS

SCALE 1 IN. = 10 FT

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

REVISED	STATE	ROUTE	STATE	PROJECT	SHEET NO.
	VA.	638		0638-076-209	27

Neabsco Mills Rd.



Station 31+50.00 To Station 32+00.00

PROJECT	SHEET NO.
0638-076-209	27

THESE PLANS ARE UNFINISHED AND UNAPPROVED AND ARE NOT TO BE USED FOR ANY TYPE OF CONSTRUCTION.

R/W PHASE PLANS

PROJECT MANAGER: EWC DOT: Khattab, Shamout, P.E. (703) 792-7193
SURVEYED BY, DATE: BDA: Ryan, Dreelto, L.S. (703) 334-9302, July 3, 2017
DESIGN BY: BDA: Mack, A. Guro, P.E. (703) 334-9288
SUBSURFACE UTILITY BY, DATE: Accurmark (703) 378-0100, August 1, 2017

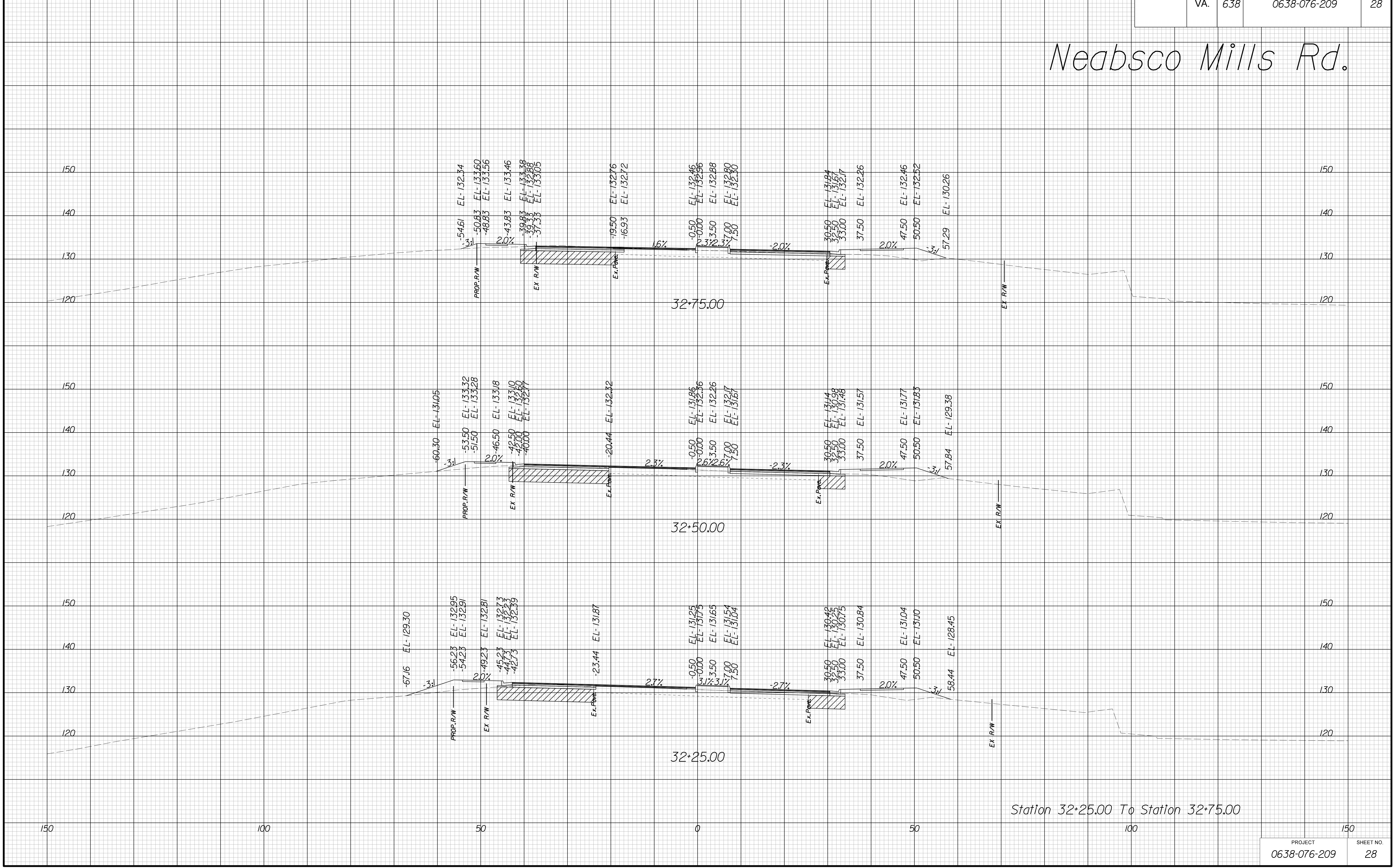
CROSS SECTIONS

SCALE 1 IN. = 10 FT

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

REVISED	STATE	ROUTE	STATE	PROJECT	SHEET NO.
	VA.	638		0638-076-209	28

Neabsco Mills Rd.



Station 32+25.00 To Station 32+75.00

PROJECT	SHEET NO.
0638-076-209	28

THESE PLANS ARE UNFINISHED AND UNAPPROVED AND ARE NOT TO BE USED FOR ANY TYPE OF CONSTRUCTION.

R/W PHASE PLANS

PROJECT MANAGER: EWCDOT: Khattab, Shamouf, P.E. (703) 792-7193
SURVEYED BY, DATE: BDA: Ryan, Dreello, L.S. (703) 334-9302; July 3, 2017
DESIGN BY: BDA: Mack, Guro, P.E. (703) 334-9288
SUBSURFACE UTILITY BY, DATE: Accurmark (703) 378-0100; August 1, 2017

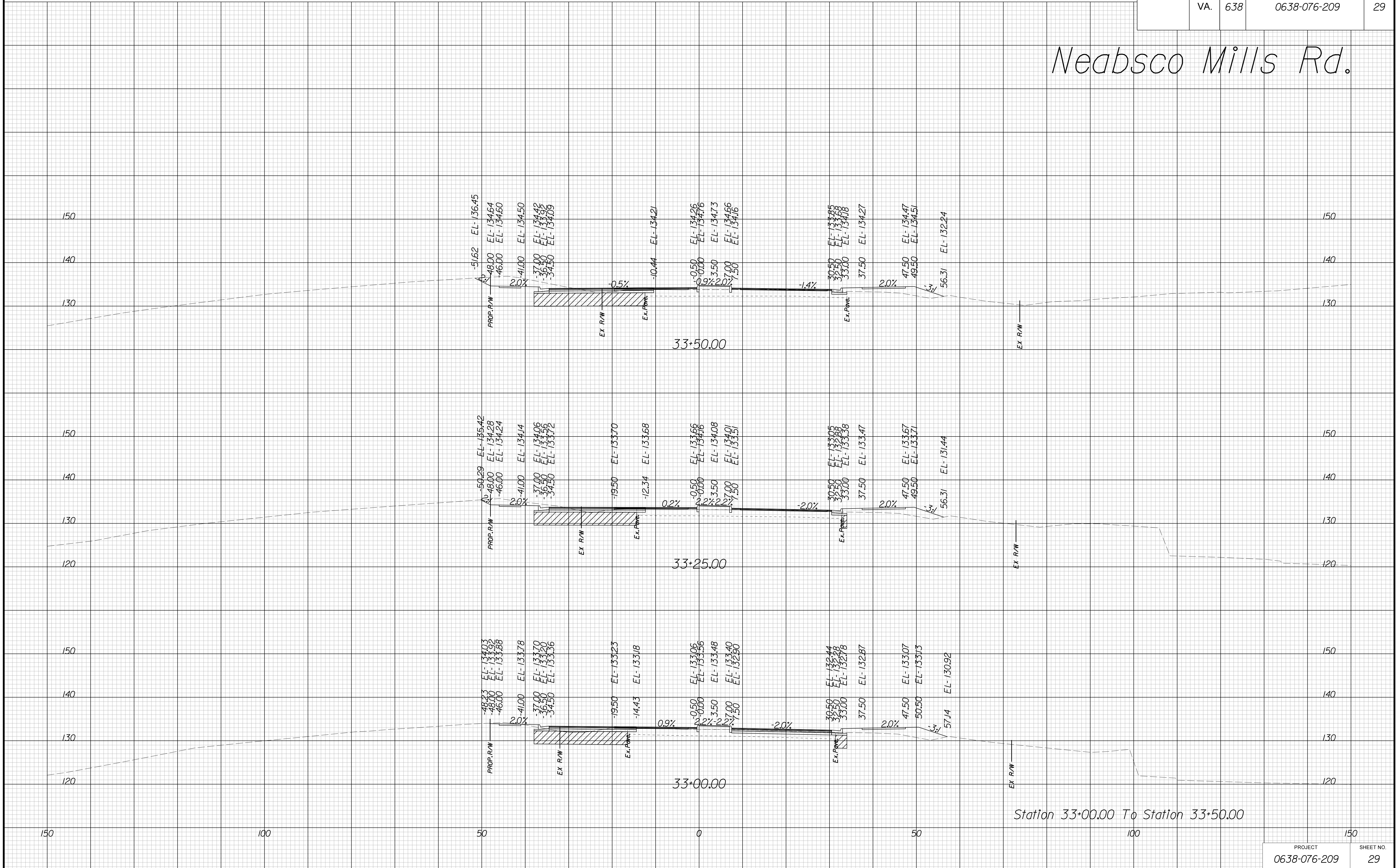
CROSS SECTIONS

SCALE 1 IN. = 10 FT

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

REVISED	STATE	ROUTE	STATE	PROJECT	SHEET NO.
	VA.	638		0638-076-209	

Neabsco Mills Rd.



Station 33+00.00 To Station 33+50.00

PROJECT	SHEET NO.
0638-076-209	29

THESE PLANS ARE UNFINISHED AND UNAPPROVED AND ARE NOT TO BE USED FOR ANY TYPE OF CONSTRUCTION.

R/W PHASE PLANS

PROJECT MANAGER: EWCDOT: Khattab, Shamout, P.E. (703) 792-7193
SURVEYED BY, DATE: BDA: Ryan, Dreello, L.S. (703) 334-9302; July 3, 2017
DESIGN BY: BDA: Mack, A. Guro, P.E. (703) 334-9288
SUBSURFACE UTILITY BY, DATE: Accurmark (703) 378-0100; August 1, 2017

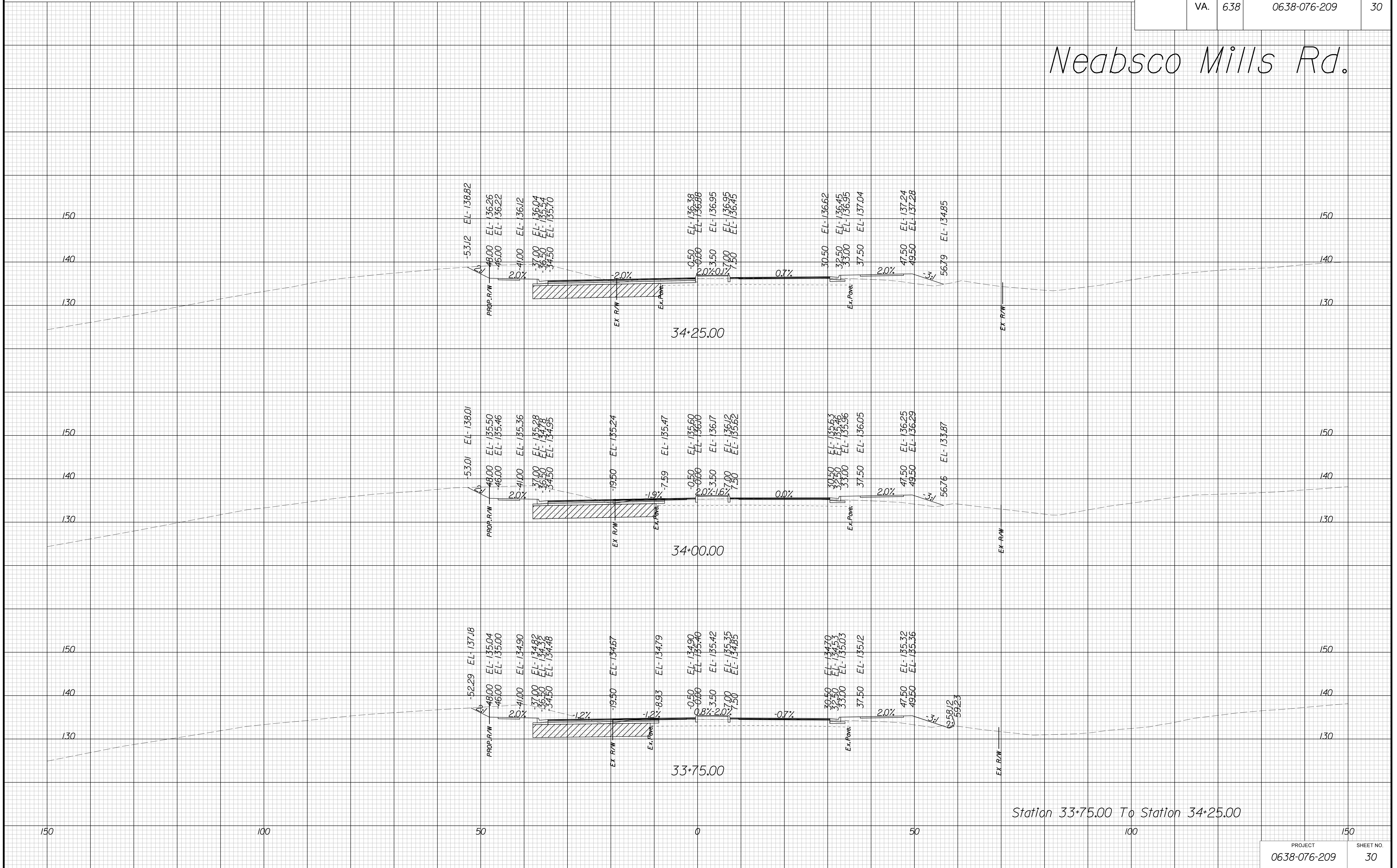
CROSS SECTIONS

SCALE 1 IN. = 10 FT

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

REVISED	STATE	ROUTE	STATE	PROJECT	SHEET NO.
	VA.	638		0638-076-209	30

Neabsco Mills Rd.



Station 33+75.00 To Station 34+25.00

THESE PLANS ARE UNFINISHED AND UNAPPROVED AND ARE NOT TO BE USED FOR ANY TYPE OF CONSTRUCTION.

R/W PHASE PLANS

PROJECT MANAGER: EWCDDOT: Khattab, Shamouf, P.E. (703) 792-7193
SURVEYED BY, DATE: BDA: Ryan, Dreelto, L.S. (703) 334-9302; July 3, 2017
DESIGN BY: BDA: Mack, A. Guro, P.E. (703) 334-9288
SUBSURFACE UTILITY BY, DATE: Accurmark (703) 378-0100; August 1, 2017

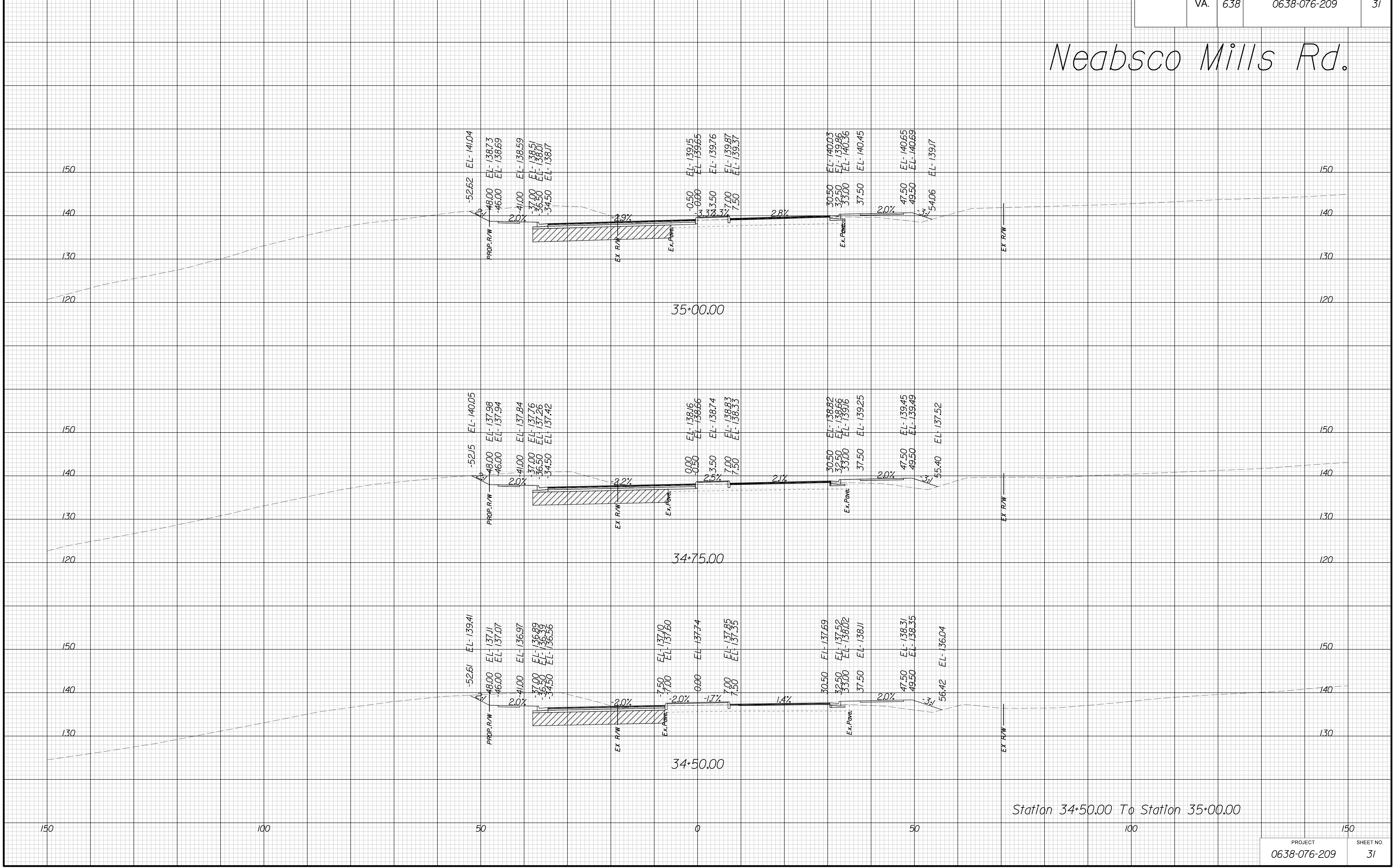
CROSS SECTIONS

SCALE 1 IN. = 10 FT

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

REVISED	STATE	ROUTE	STATE	PROJECT	SHEET NO.
	VA.	638		0638-076-209	31

Neabsco Mills Rd.



Station 34+50.00 To Station 35+00.00

PROJECT	SHEET NO.
0638-076-209	31

THESE PLANS ARE UNFINISHED AND UNAPPROVED AND ARE NOT TO BE USED FOR ANY TYPE OF CONSTRUCTION.

R/W PHASE PLANS

PROJECT MANAGER: EWCDOT:Khattab, Shamouf, P.E. (703) 792-7193
SURVEYED BY: DATE BDA: Ryan, Dreelto, L.S. (703) 334-9302; July 3, 2017
DESIGN BY BDA: Mack, A. Guro, P.E. (703) 334-9288
SUBSURFACE UTILITY BY: DATE Accurmark (703) 378-0100; August 1, 2017

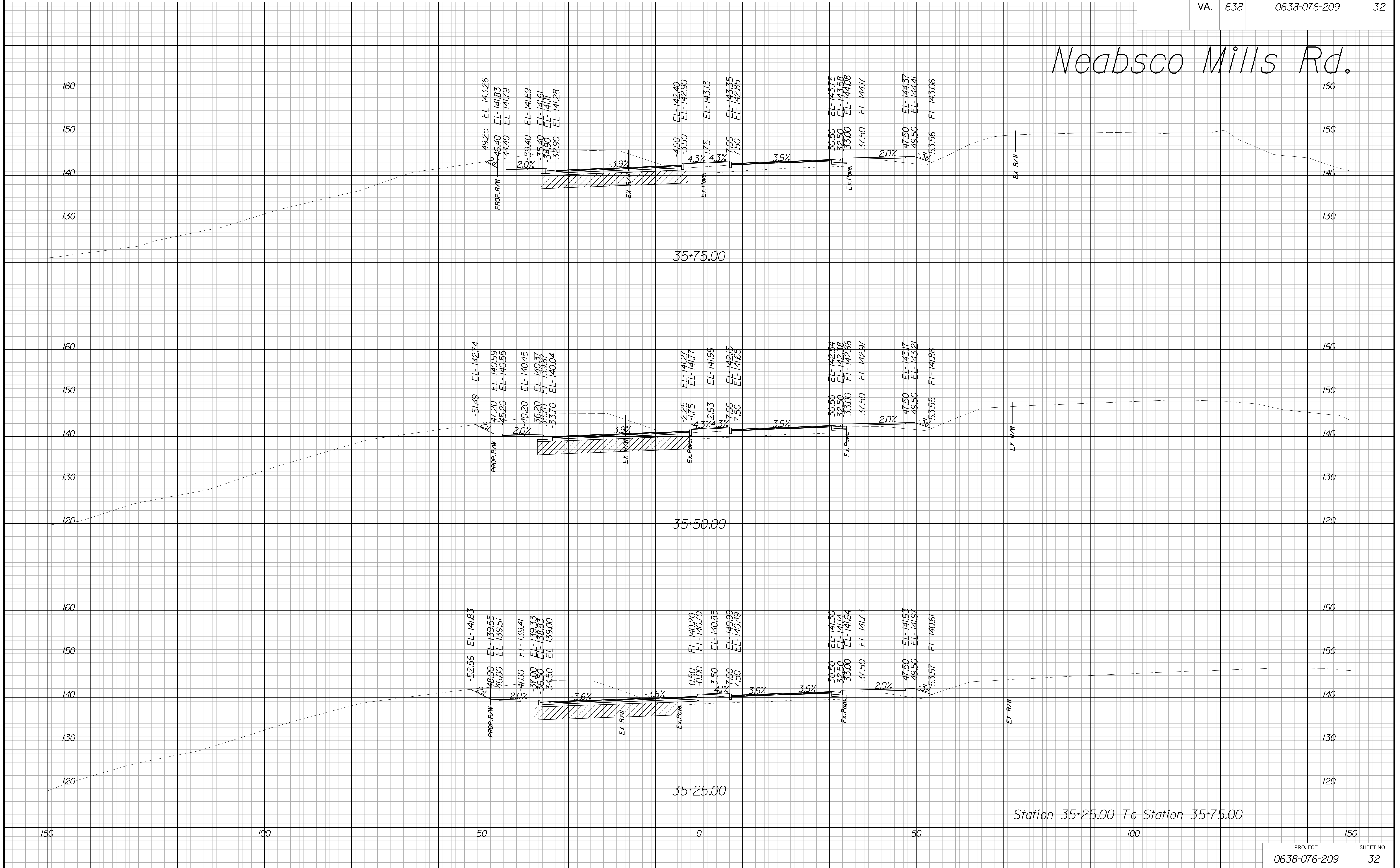
CROSS SECTIONS

SCALE 1 IN. = 10 FT

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

REVISED	STATE	ROUTE	STATE	PROJECT	SHEET NO.
	VA.	638		0638-076-209	32

Neabsco Mills Rd.



THESE PLANS ARE UNFINISHED AND UNAPPROVED AND ARE NOT TO BE USED FOR ANY TYPE OF CONSTRUCTION.

R/W PHASE PLANS

PROJECT MANAGER: EWCDOT:Khattab, Shamout, P.E. (703) 792-7193
SURVEYED BY, DATE: BDA: Ryan, Dreelto, L.S. (703) 334-9302; July 3, 2017
DESIGN BY: BDA: Mack, A. Guro, P.E. (703) 334-9288
SUBSURFACE UTILITY BY, DATE: Accurmark (703) 378-0100; August 1, 2017

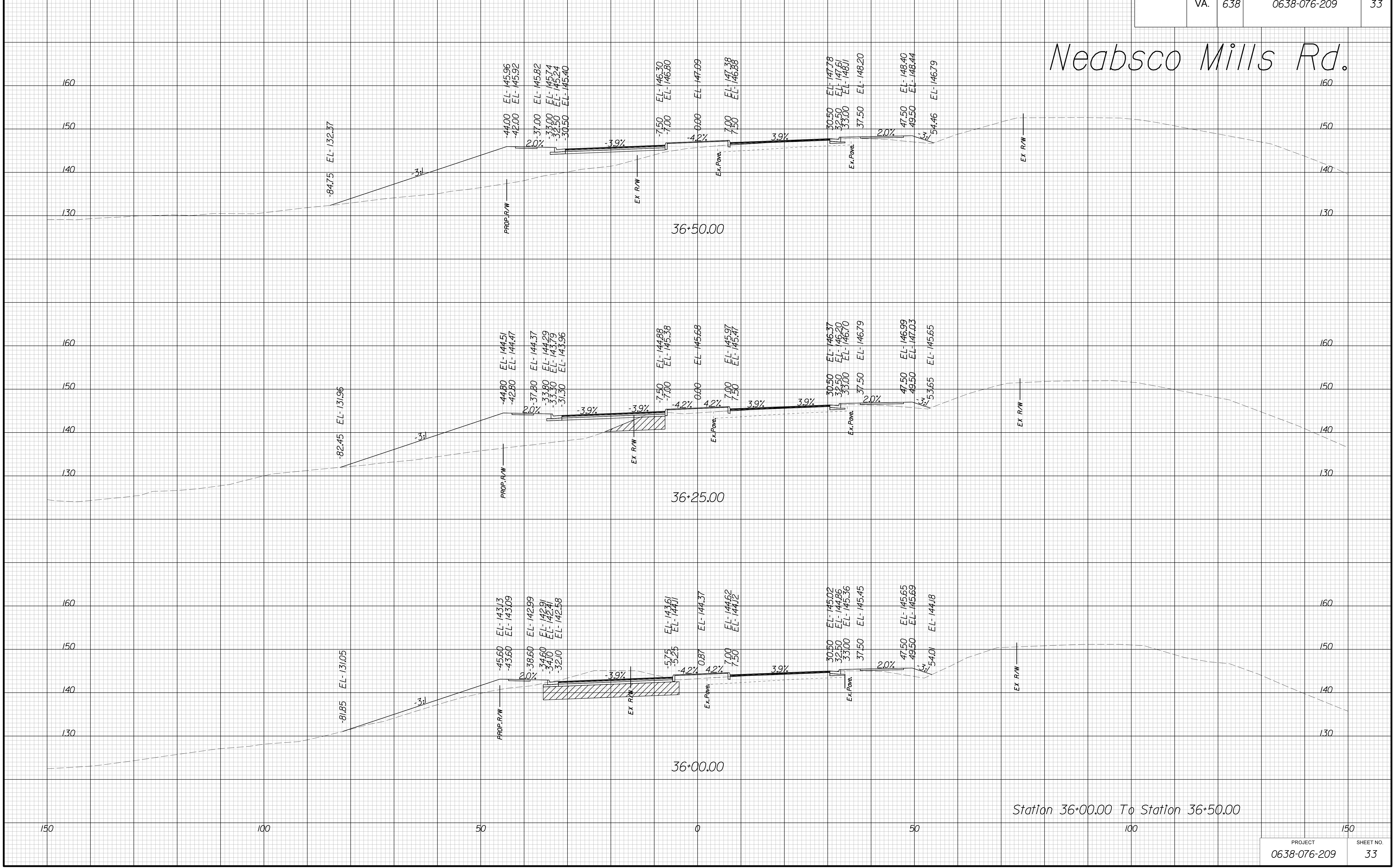
CROSS SECTIONS

SCALE 1 IN. = 10 FT

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

REVISED	STATE	ROUTE	STATE	PROJECT	SHEET NO.
	VA.	638		0638-076-209	33

Neabsco Mills Rd.



Station 36+00.00 To Station 36+50.00

PROJECT	SHEET NO.
0638-076-209	33

THESE PLANS ARE UNFINISHED AND UNAPPROVED AND ARE NOT TO BE USED FOR ANY TYPE OF CONSTRUCTION.

R/W PHASE PLANS

PROJECT MANAGER: EWCDOT:Khattab, Shamouf, P.E. (703) 792-7193
SURVEYED BY, DATE: BDA: Ryan, Dreelto, L.S. (703) 334-9302; July 3, 2017
DESIGN BY: BDA: Mack, A. Guro, P.E. (703) 334-9288
SUBSURFACE UTILITY BY, DATE: Accurmark (703) 378-0100; August 1, 2017

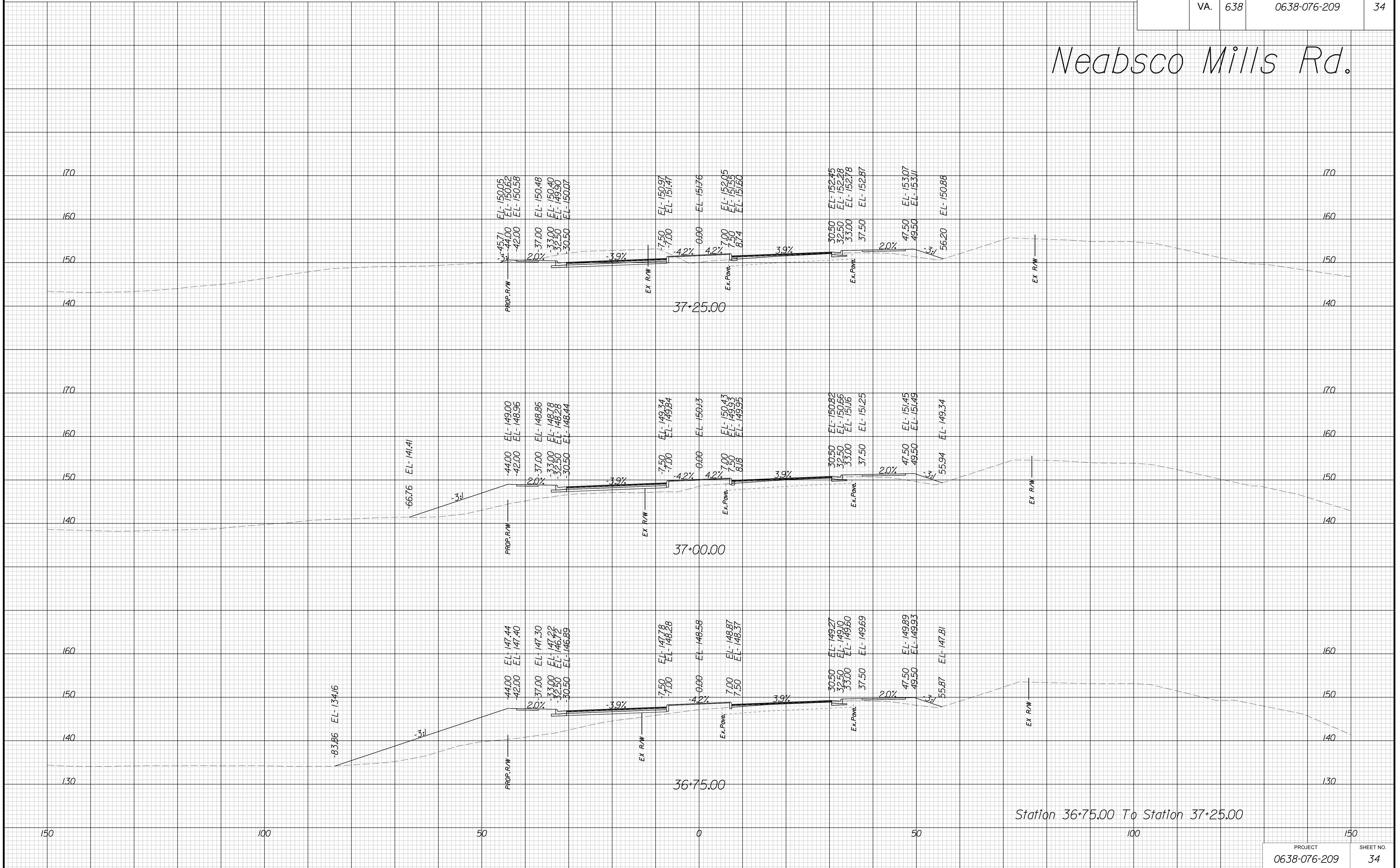
CROSS SECTIONS

SCALE 1 IN. = 10 FT

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

REVISED	STATE	ROUTE	STATE	PROJECT	SHEET NO.
	VA.	638		0638-076-209	34

Neabsco Mills Rd.



THESE PLANS ARE UNFINISHED AND UNAPPROVED AND ARE NOT TO BE USED FOR ANY TYPE OF CONSTRUCTION.

R/W PHASE PLANS

PROJECT MANAGER: EWCDOT: Khattab, Shamouf, P.E. (703) 792-7193
SURVEYED BY: DATE BDA: Ryan, Dreelto, L.S. (703) 334-9302; July 3, 2017
DESIGN BY BDA: Mack, A. Guro, P.E. (703) 334-9288
SUBSURFACE UTILITY BY: DATE Accurmark (703) 378-0100; August 1, 2017

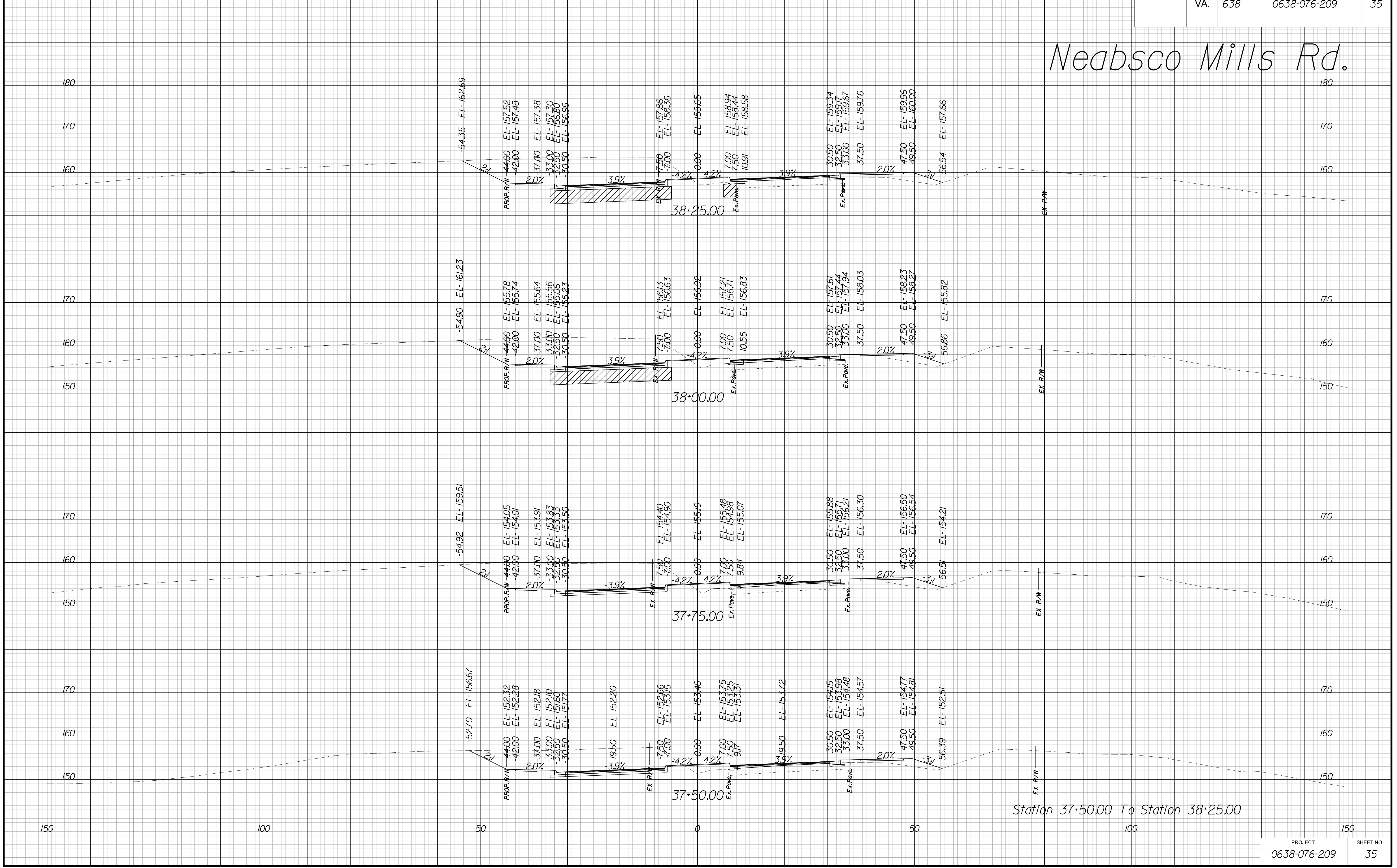
CROSS SECTIONS

SCALE 1 IN. = 10 FT

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

REVISED	STATE	ROUTE	STATE	PROJECT	SHEET NO.
	VA.	638		0638-076-209	35

Neabsco Mills Rd.



Station 37+50.00 To Station 38+25.00

PROJECT	SHEET NO.
0638-076-209	35

THESE PLANS ARE UNFINISHED AND UNAPPROVED AND ARE NOT TO BE USED FOR ANY TYPE OF CONSTRUCTION.

R/W PHASE PLANS

PROJECT MANAGER: EWCDOT:Khattab, Shamout, P.E. (703) 792-7193
SURVEYED BY, DATE: BDA: Ryan, Dreelto, L.S. (703) 334-9302; July 3, 2017
DESIGN BY: BDA: Mack, A. Guro, P.E. (703) 334-9288
SUBSURFACE UTILITY BY, DATE: Accurmark (703) 378-0100; August 1, 2017

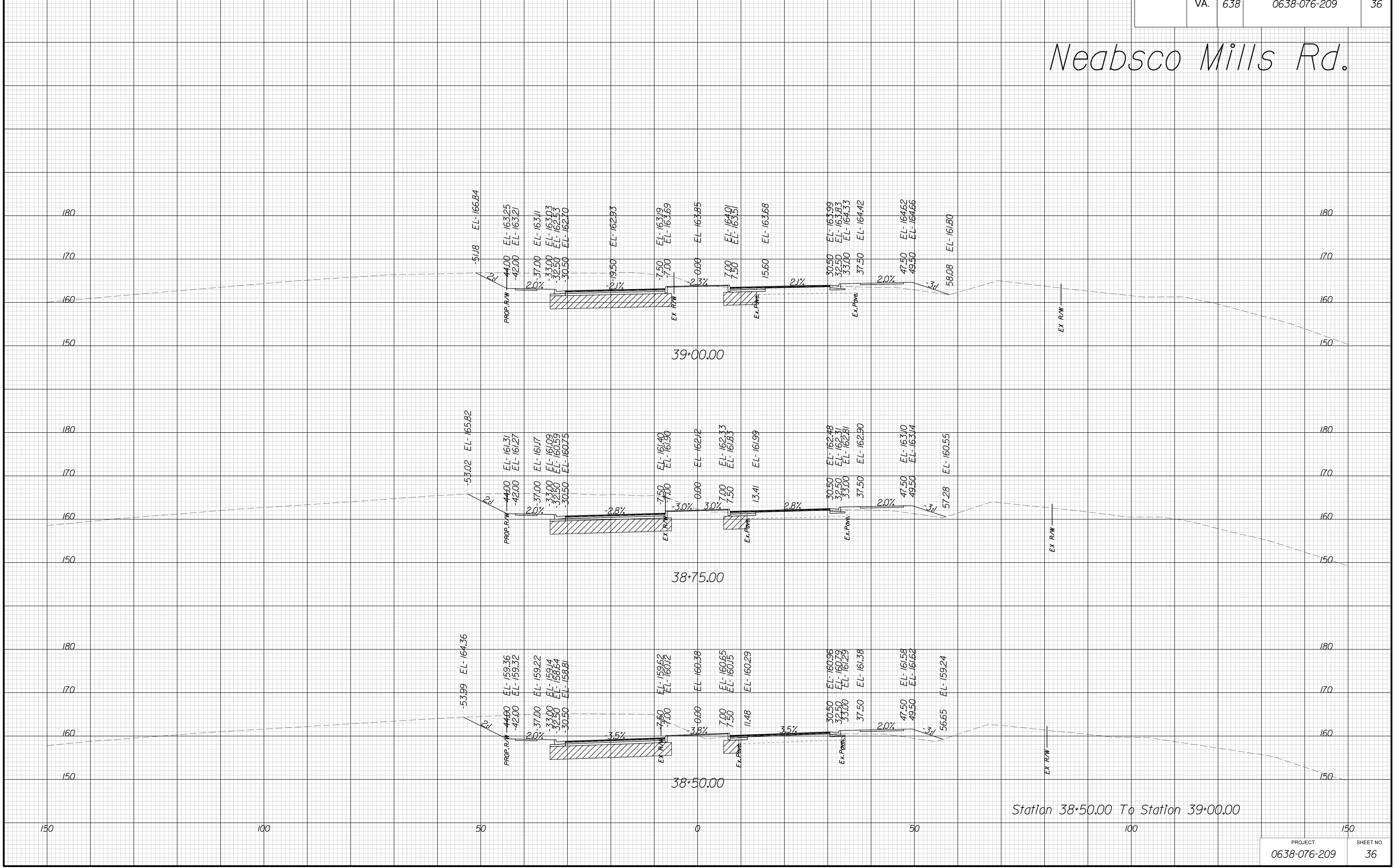
CROSS SECTIONS

SCALE 1 IN. = 10 FT

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

REVISED	STATE	ROUTE	STATE PROJECT	SHEET NO.
	VA.	638	0638-076-209	36

Neabsco Mills Rd.



Station 38+50.00 To Station 39+00.00

PROJECT	SHEET NO.
0638-076-209	36

THESE PLANS ARE UNFINISHED AND UNAPPROVED AND ARE NOT TO BE USED FOR ANY TYPE OF CONSTRUCTION.

R/W PHASE PLANS

PROJECT MANAGER: EWCDDOT:Khattab, Shamouf, P.E. (703) 792-7193
SURVEYED BY, DATE: BDA: Ryan, Dreelto, L.S. (703) 334-9302; July 3, 2017
DESIGN BY: BDA: Mack, A. Guro, P.E. (703) 334-9288
SUBSURFACE UTILITY BY, DATE: Accurmark (703) 378-0100; August 1, 2017

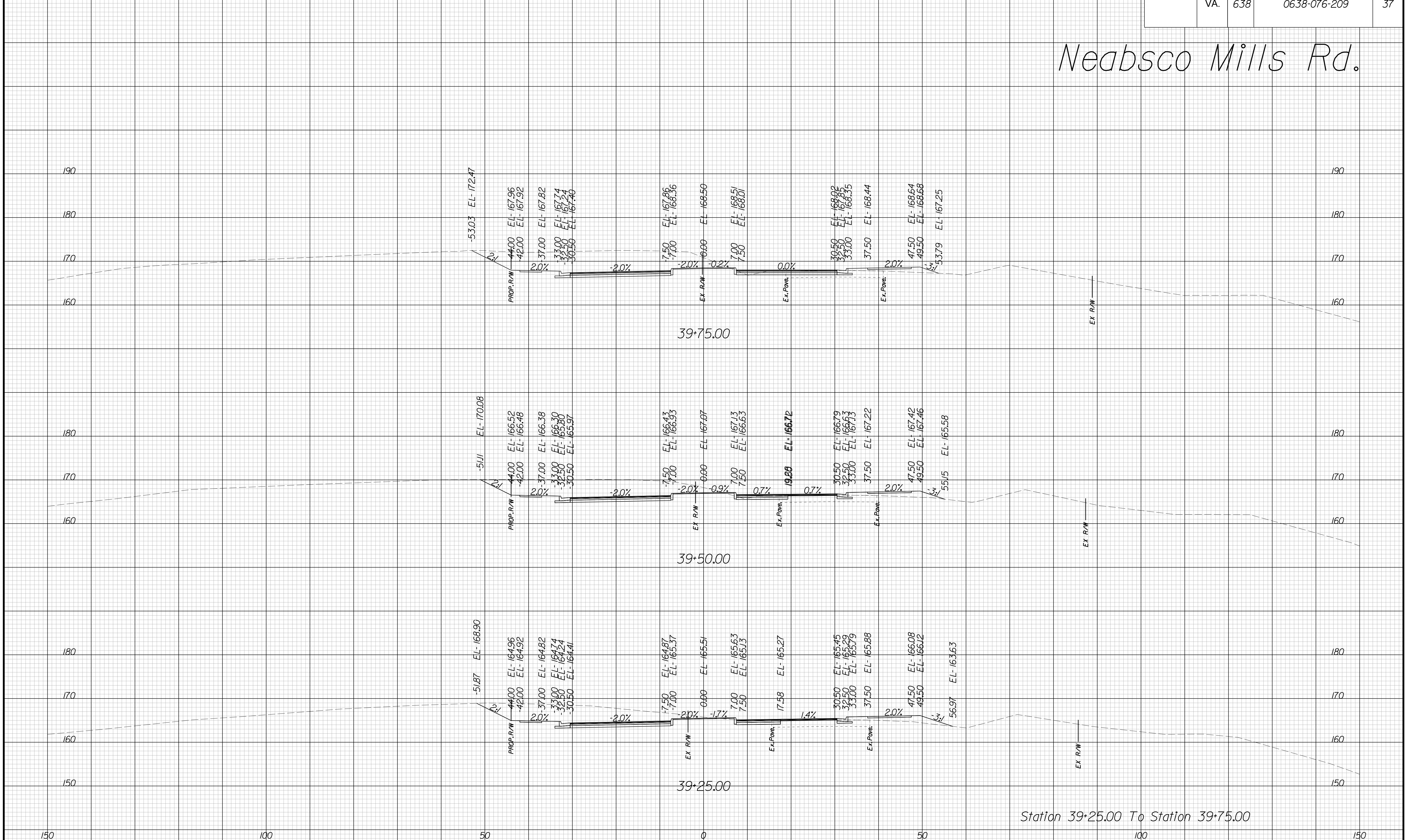
CROSS SECTIONS

SCALE 1 IN. = 10 FT

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

REVISED	STATE	ROUTE	STATE	PROJECT	SHEET NO.
	VA.	638		0638-076-209	37

Neabsco Mills Rd.



Station 39+25.00 To Station 39+75.00

PROJECT	SHEET NO.
0638-076-209	37

THESE PLANS ARE UNFINISHED AND UNAPPROVED AND ARE NOT TO BE USED FOR ANY TYPE OF CONSTRUCTION.

R/W PHASE PLANS

PROJECT MANAGER: EWCDDOT: Khattab, Shamout, P.E. (703) 792-7193
SURVEYED BY, DATE: BDA: Ryan, Dreelto, L.S. (703) 334-9302; July 3, 2017
DESIGN BY: BDA: Mack, Guro, P.E. (703) 334-9288
SUBSURFACE UTILITY BY, DATE: Accurmark (703) 378-0100; August 1, 2017

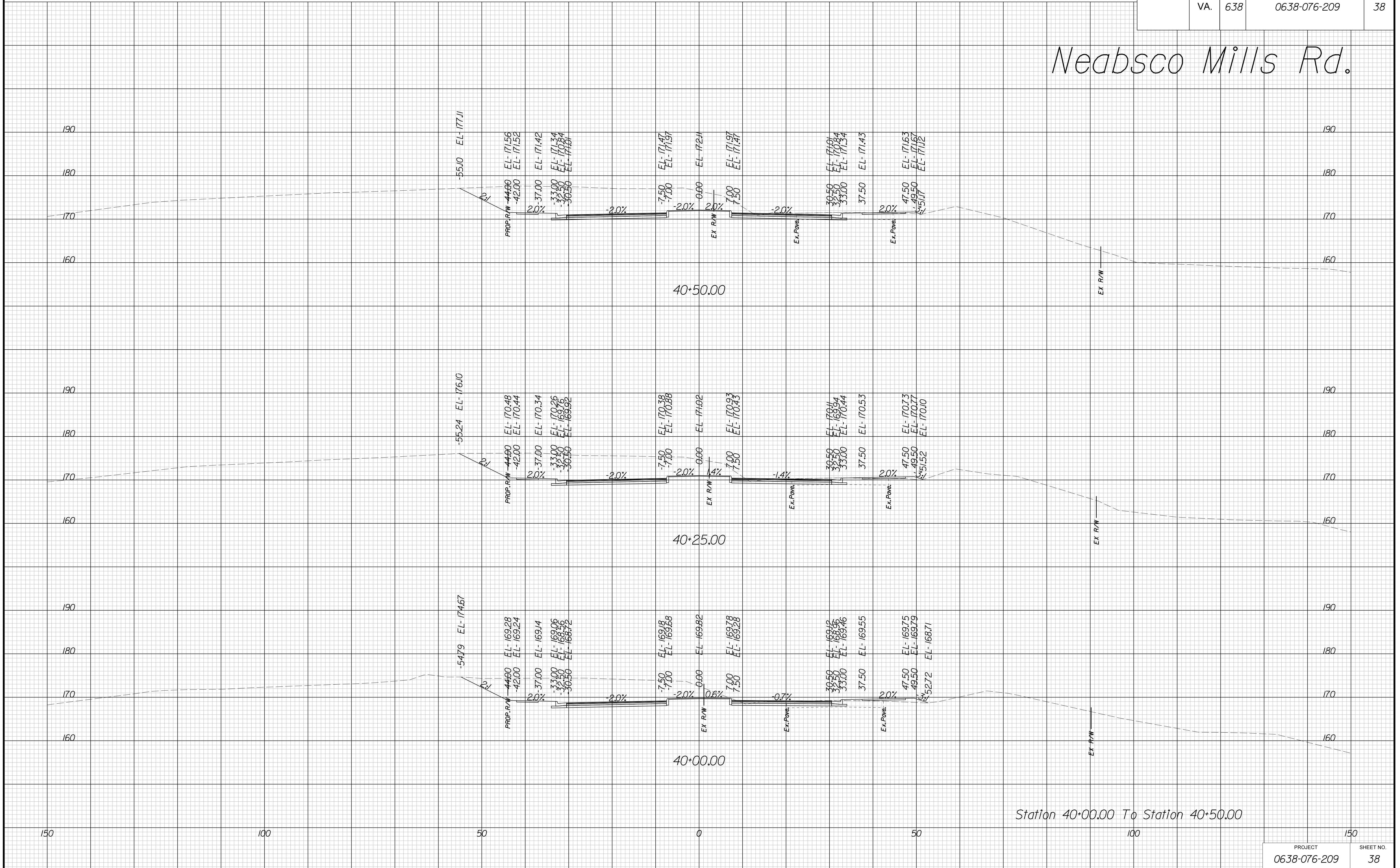
CROSS SECTIONS

SCALE 1 IN. = 10 FT

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

REVISED	STATE	ROUTE	STATE	PROJECT	SHEET NO.
	VA.	638		0638-076-209	38

Neabsco Mills Rd.



Station 40+00.00 To Station 40+50.00

PROJECT	SHEET NO.
0638-076-209	38

THESE PLANS ARE UNFINISHED AND UNAPPROVED AND ARE NOT TO BE USED FOR ANY TYPE OF CONSTRUCTION.

R/W PHASE PLANS

PROJECT MANAGER: EWCDOT: Khattab, Shamouf, P.E. (703) 792-7193
SURVEYED BY, DATE: BDA: Ryan, Dreello, L.S. (703) 334-9302; July 3, 2017
DESIGN BY: BDA: Mack, A. Guro, P.E. (703) 334-9288
SUBSURFACE UTILITY BY, DATE: Accurmark (703) 378-0100; August 1, 2017

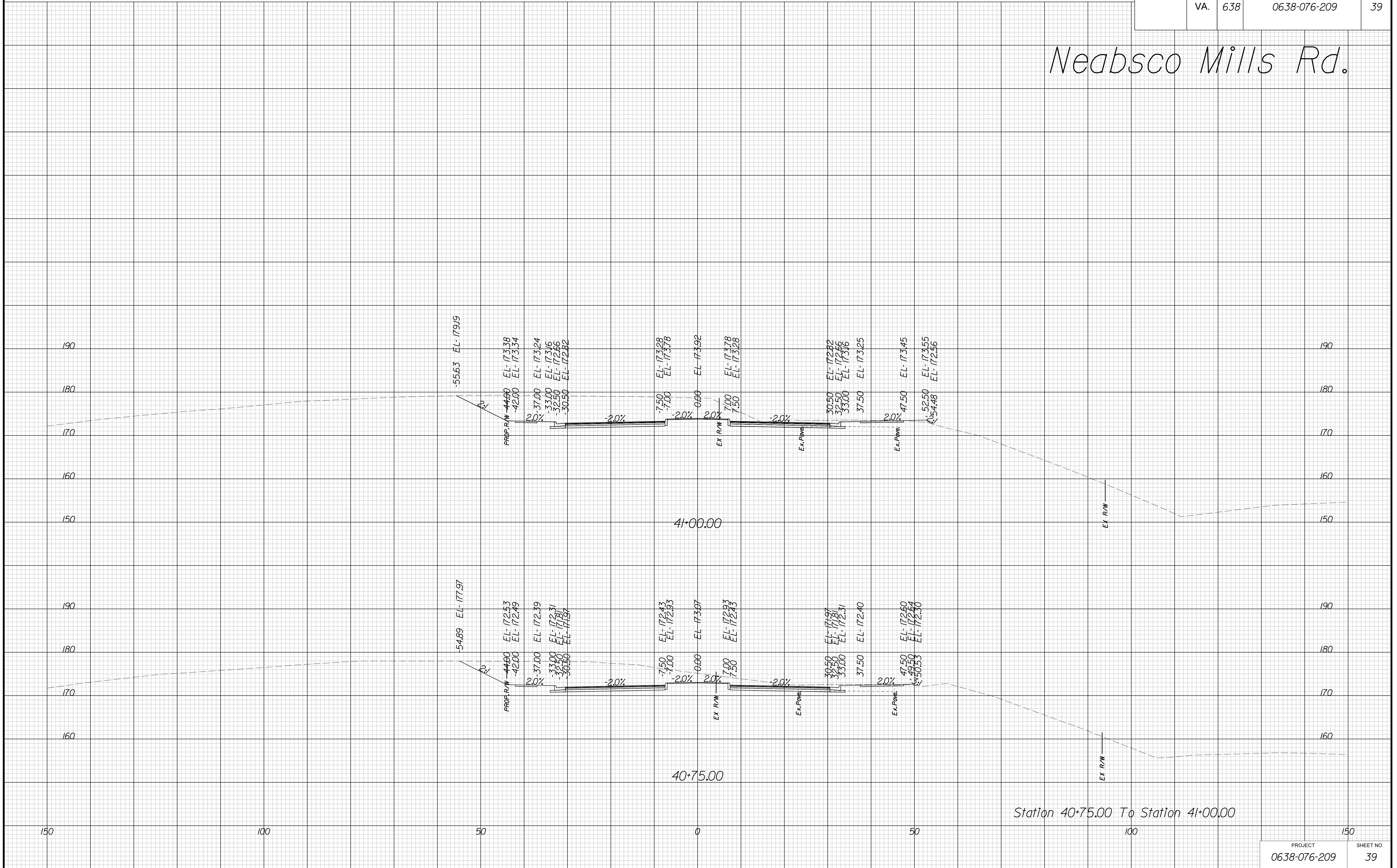
CROSS SECTIONS

SCALE 1 IN. = 10 FT

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

REVISED	STATE	ROUTE	STATE	PROJECT	SHEET NO.
	VA.	638		0638-076-209	39

Neabsco Mills Rd.



Station 40+75.00 To Station 41+00.00

THESE PLANS ARE UNFINISHED AND UNAPPROVED AND ARE NOT TO BE USED FOR ANY TYPE OF CONSTRUCTION.

R/W PHASE PLANS

PROJECT MANAGER: EWCDOT: Khattab, Shamouf, P.E. (703) 792-7193
SURVEYED BY, DATE: BDA: Ryan, Dreelto, L.S. (703) 334-9302; July 3, 2017
DESIGN BY: BDA: Mack, A. Guro, P.E. (703) 334-9288
SUBSURFACE UTILITY BY, DATE: Accurmark (703) 378-0100; August 1, 2017

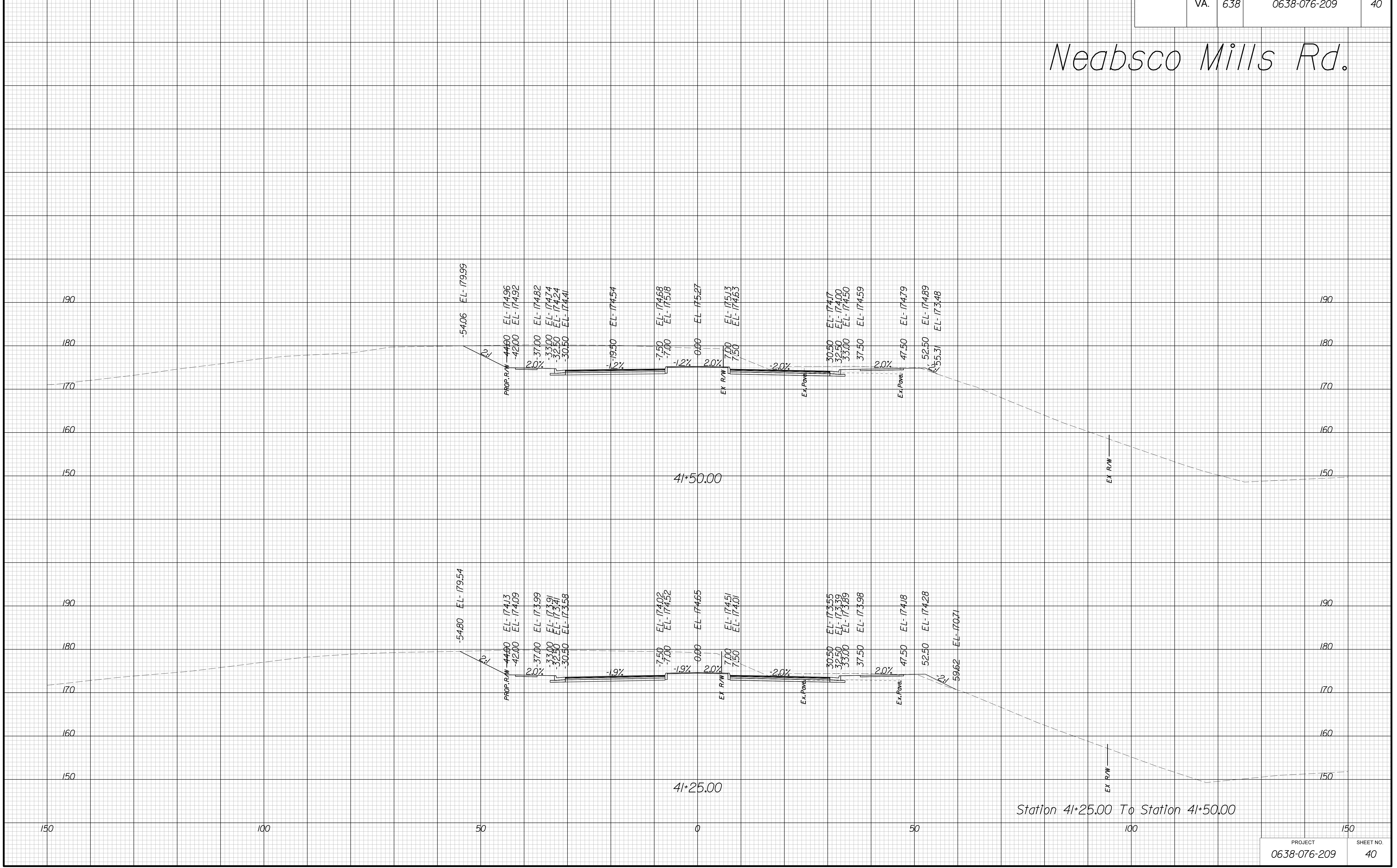
CROSS SECTIONS

SCALE 1 IN. = 10 FT

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

REVISED	STATE	ROUTE	STATE	PROJECT	SHEET NO.
	VA.	638		0638-076-209	40

Neabsco Mills Rd.



Station 41+25.00 To Station 41+50.00

PROJECT	SHEET NO.
0638-076-209	40

THESE PLANS ARE UNFINISHED AND UNAPPROVED AND ARE NOT TO BE USED FOR ANY TYPE OF CONSTRUCTION.

R/W PHASE PLANS

PROJECT MANAGER: EWCDDOT:Khattab, Shamouf, P.E. (703) 792-7193
SURVEYED BY, DATE: BDA: Ryan, Dreelto, L.S. (703) 334-9302; July 3, 2017
DESIGN BY: BDA: Mack, A. Guro, P.E. (703) 334-9288
SUBSURFACE UTILITY BY, DATE: Accurmark (703) 378-0100; August 1, 2017

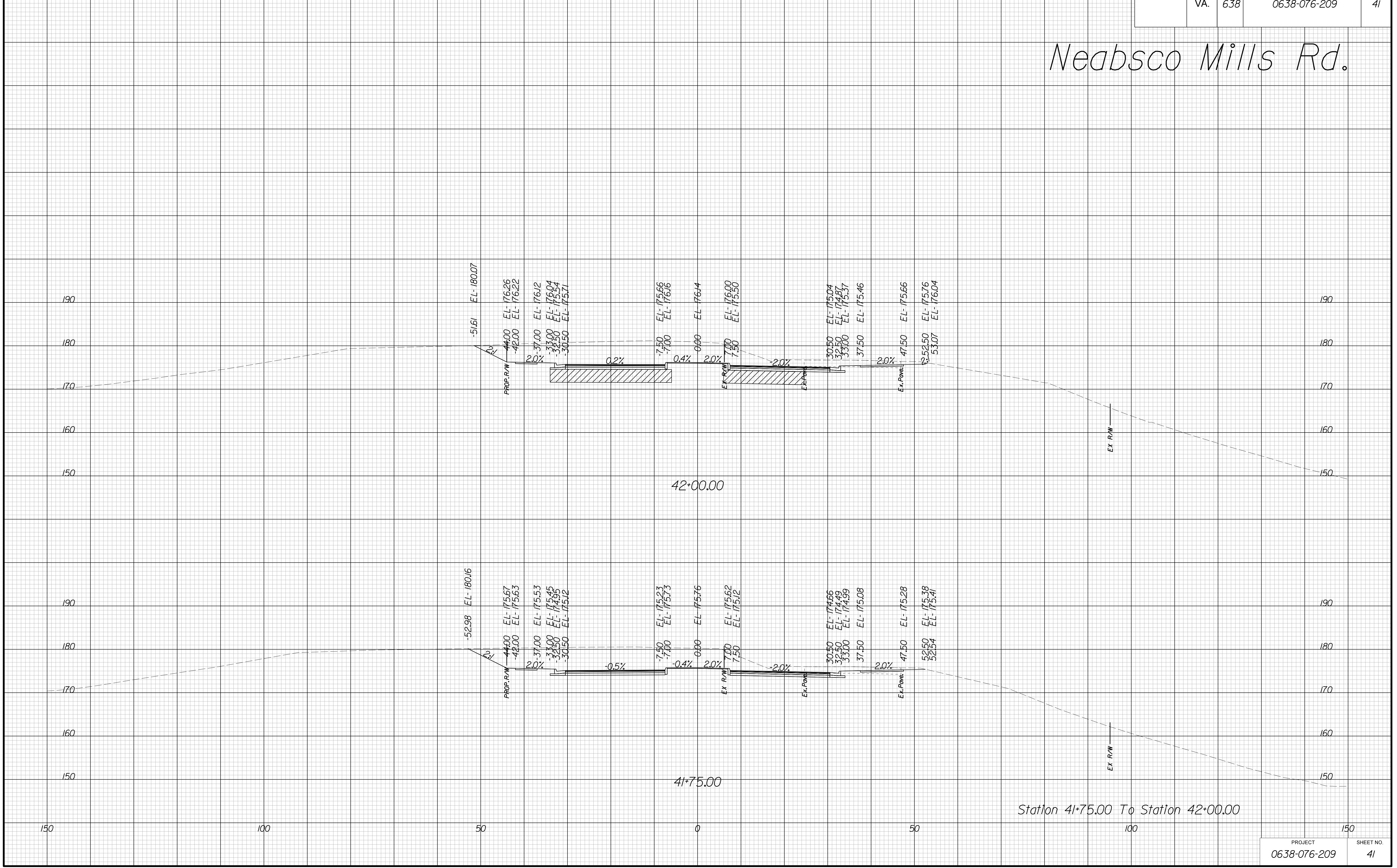
CROSS SECTIONS

SCALE 1 IN. = 10 FT

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

REVISED	STATE	ROUTE	STATE	PROJECT	SHEET NO.
	VA.	638		0638-076-209	41

Neabsco Mills Rd.



Station 41+75.00 To Station 42+00.00

PROJECT	SHEET NO.
0638-076-209	41

THESE PLANS ARE UNFINISHED AND UNAPPROVED AND ARE NOT TO BE USED FOR ANY TYPE OF CONSTRUCTION.

R/W PHASE PLANS

PROJECT MANAGER: EWCDOT:Khattab, Shamouf, P.E. (703) 792-7193
SURVEYED BY, DATE: BDA: Ryan, Dreelto, L.S. (703) 334-9302; July 3, 2017
DESIGN BY: BDA: Mack, A. Guro, P.E. (703) 334-9288
SUBSURFACE UTILITY BY, DATE: Accurmark (703) 378-0100; August 1, 2017

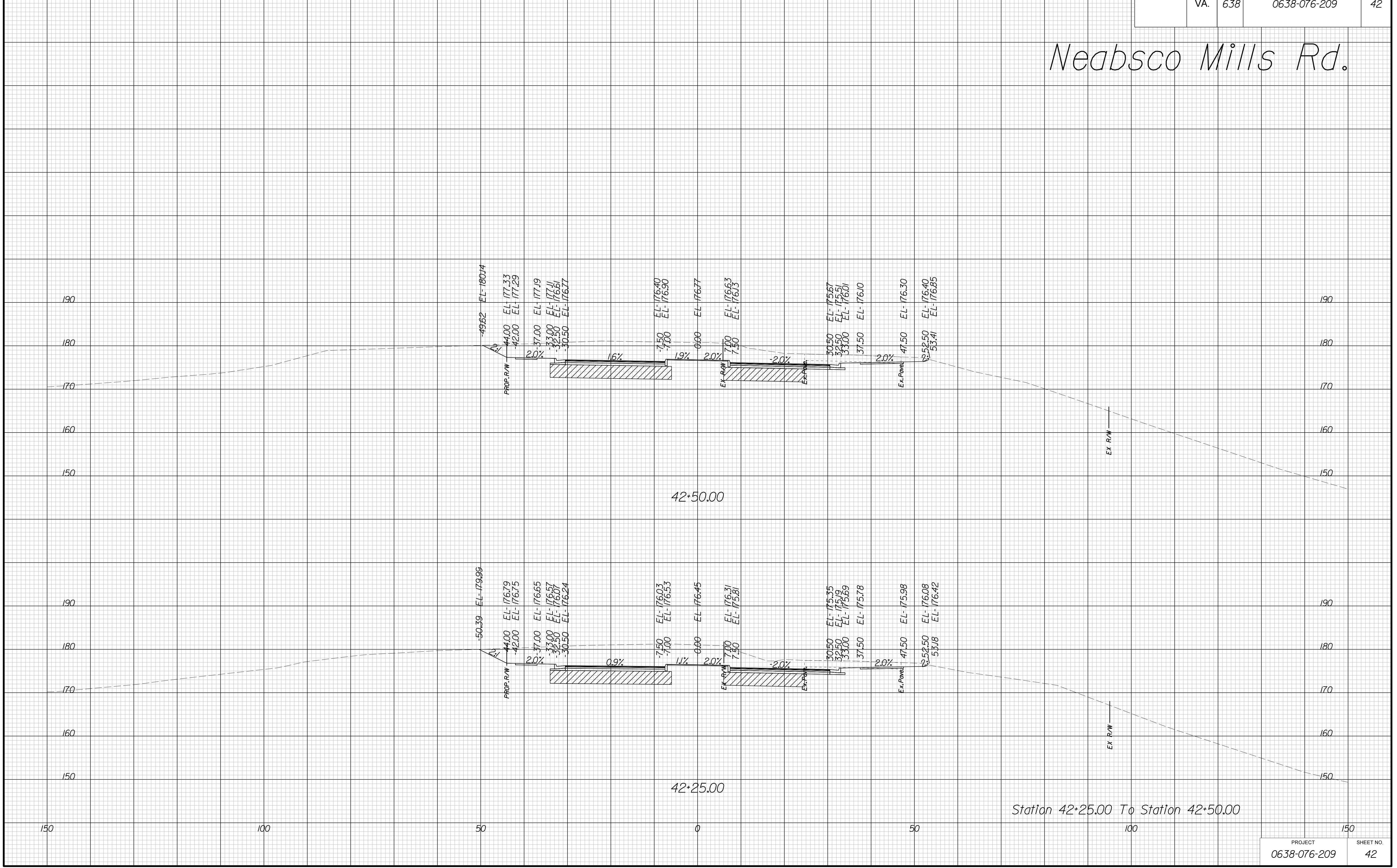
CROSS SECTIONS

SCALE 1 IN. = 10 FT

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

REVISED	STATE	ROUTE	STATE	PROJECT	SHEET NO.
	VA.	638		0638-076-209	42

Neabsco Mills Rd.



Station 42+25.00 To Station 42+50.00

PROJECT	SHEET NO.
0638-076-209	42

THESE PLANS ARE UNFINISHED AND UNAPPROVED AND ARE NOT TO BE USED FOR ANY TYPE OF CONSTRUCTION.

R/W PHASE PLANS

PROJECT MANAGER: EWCDOT: Khattab, Shamouf, P.E. (703) 792-7193
SURVEYED BY, DATE: BDA: Ryan, Dreelto, L.S. (703) 334-9302; July 3, 2017
DESIGN BY: BDA: Mack, A. Guro, P.E. (703) 334-9288
SUBSURFACE UTILITY BY, DATE: Accurmark (703) 378-0100; August 1, 2017

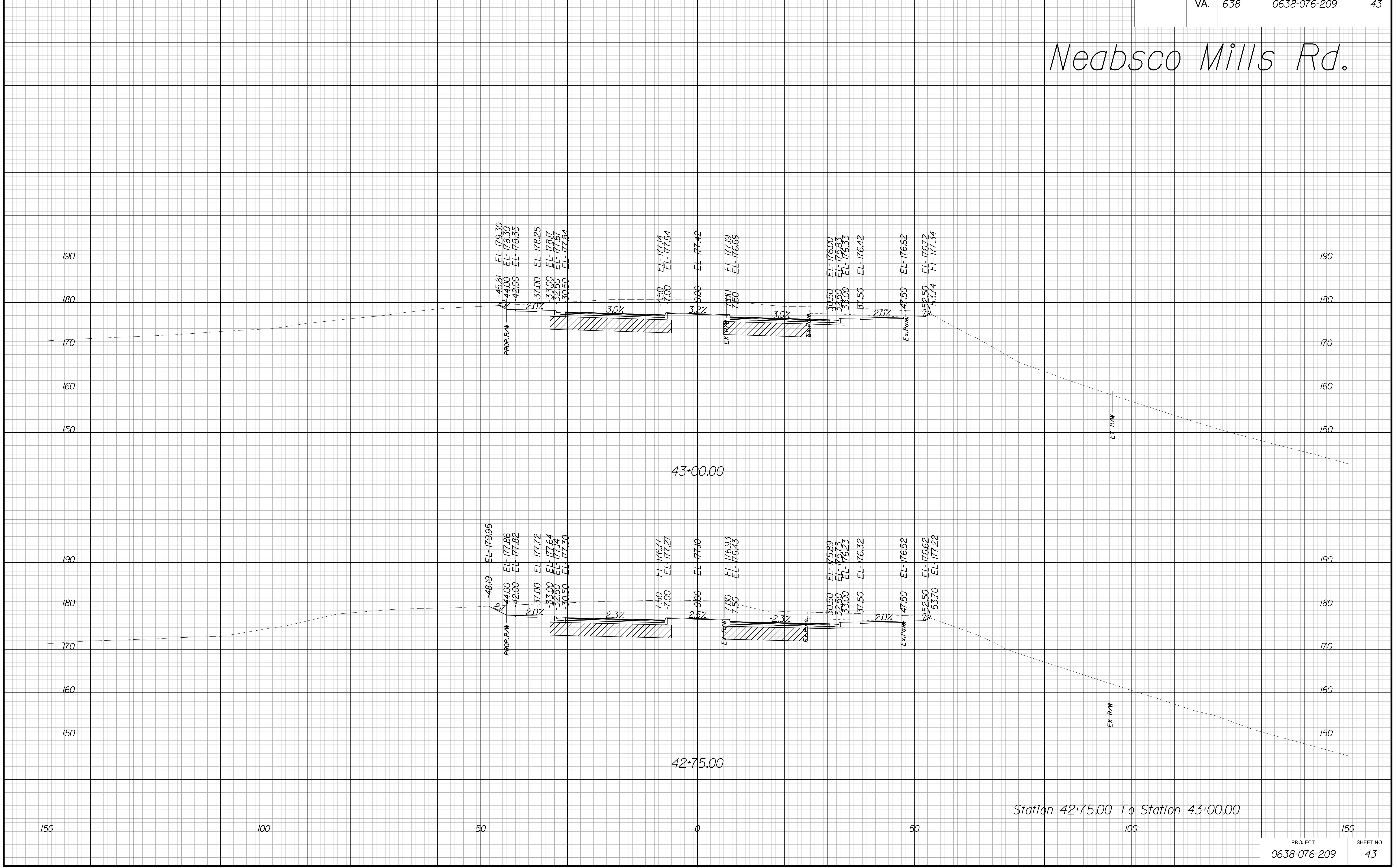
CROSS SECTIONS

SCALE 1 IN. = 10 FT

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

REVISED	STATE	ROUTE	STATE	PROJECT	SHEET NO.
	VA.	638		0638-076-209	43

Neabsco Mills Rd.



Station 42+75.00 To Station 43+00.00

PROJECT	SHEET NO.
0638-076-209	43

THESE PLANS ARE UNFINISHED AND UNAPPROVED AND ARE NOT TO BE USED FOR ANY TYPE OF CONSTRUCTION.

R/W PHASE PLANS

PROJECT MANAGER: EWCDOT: Khattab, Shamouf, P.E. (703) 792-7193
SURVEYED BY, DATE: BDA: Ryan, Dreelto, L.S. (703) 334-9302; July 3, 2017
DESIGN BY: BDA: Mack, A. Guro, P.E. (703) 334-9288
SUBSURFACE UTILITY BY, DATE: Accurmark (703) 378-0100; August 1, 2017

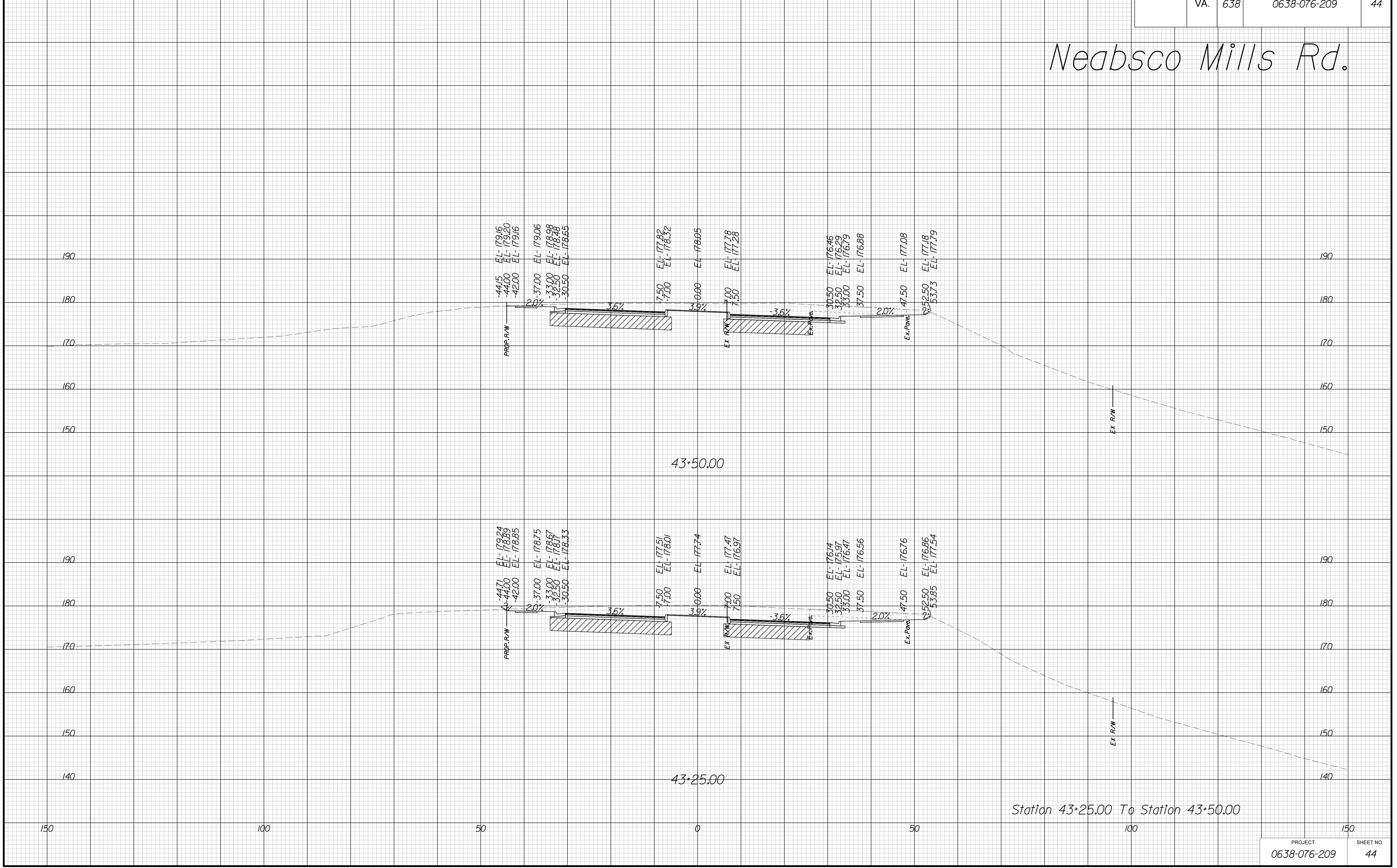
CROSS SECTIONS

SCALE 1 IN. = 10 FT

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

REVISED	STATE	ROUTE	STATE	PROJECT	SHEET NO.
	VA.	638		0638-076-209	44

Neabsco Mills Rd.



Station 43+25.00 To Station 43+50.00

THESE PLANS ARE UNFINISHED AND UNAPPROVED AND ARE NOT TO BE USED FOR ANY TYPE OF CONSTRUCTION.

R/W PHASE PLANS

PROJECT MANAGER: EWCDOT:Khattab, Shamout, P.E. (703) 792-7193
SURVEYED BY: DATE: BDA: Ryan, Dreelto, L.S. (703) 334-9302; July 3, 2017
DESIGN BY: BDA: Mack, A. Guro, P.E. (703) 334-9288
SUBSURFACE UTILITY BY: DATE: Accurmark (703) 378-0100; August 1, 2017

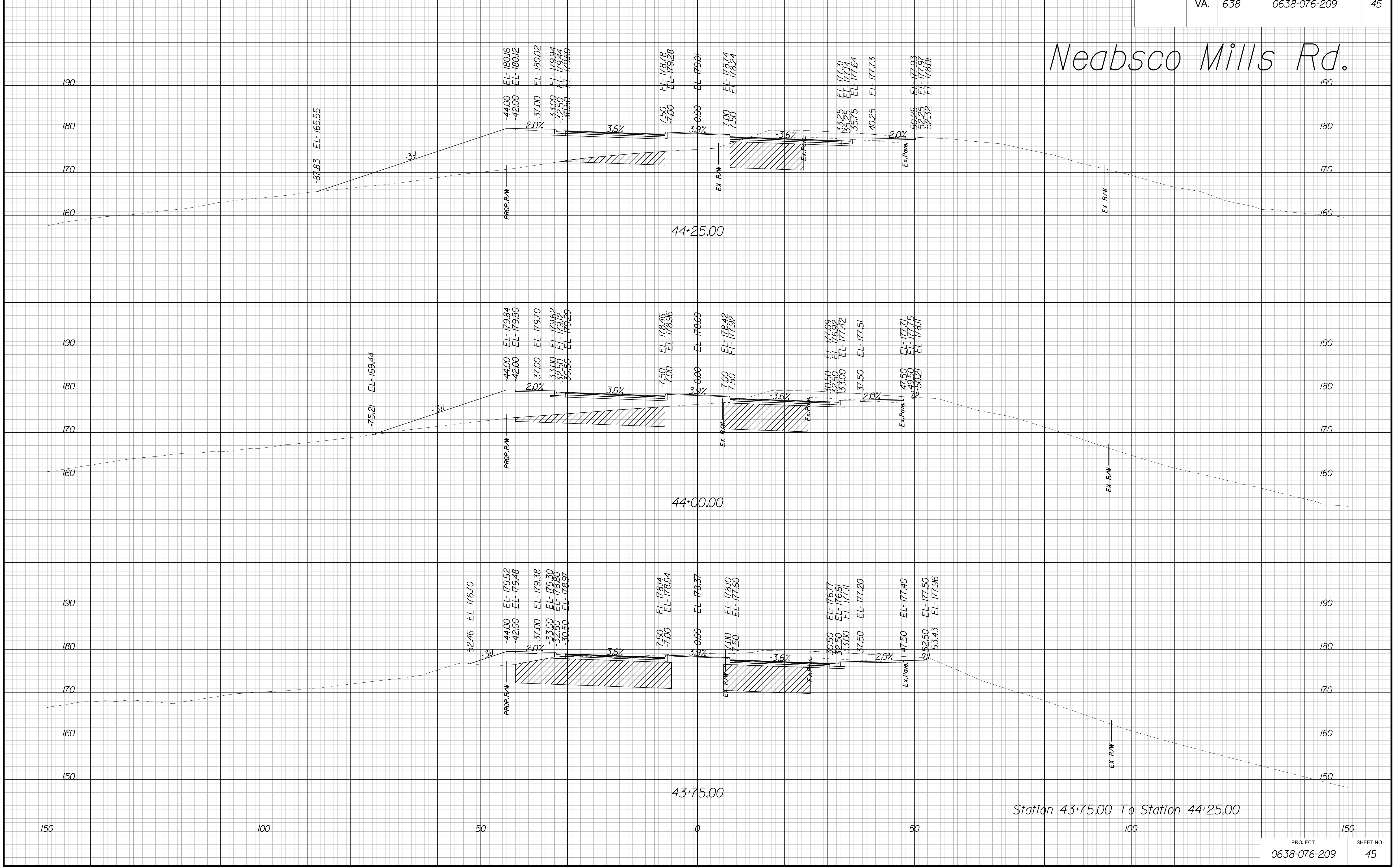
CROSS SECTIONS

SCALE 1 IN. = 10 FT

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

REVISED	STATE	ROUTE	STATE	PROJECT	SHEET NO.
	VA.	638		0638-076-209	45

Neabsco Mills Rd.



Station 43+75.00 To Station 44+25.00

PROJECT	SHEET NO.
0638-076-209	45

THESE PLANS ARE UNFINISHED AND UNAPPROVED AND ARE NOT TO BE USED FOR ANY TYPE OF CONSTRUCTION.

R/W PHASE PLANS

PROJECT MANAGER: EWCDOT: Khattab, Shamout, P.E. (703) 792-7193
SURVEYED BY: DATE: BDA: Ryan, Dreelto, L.S. (703) 334-9302; July 3, 2017
DESIGN BY: BDA: Mack, A. Guro, P.E. (703) 334-9288
SUBSURFACE UTILITY BY: DATE: Accurmark (703) 378-0100; August 1, 2017

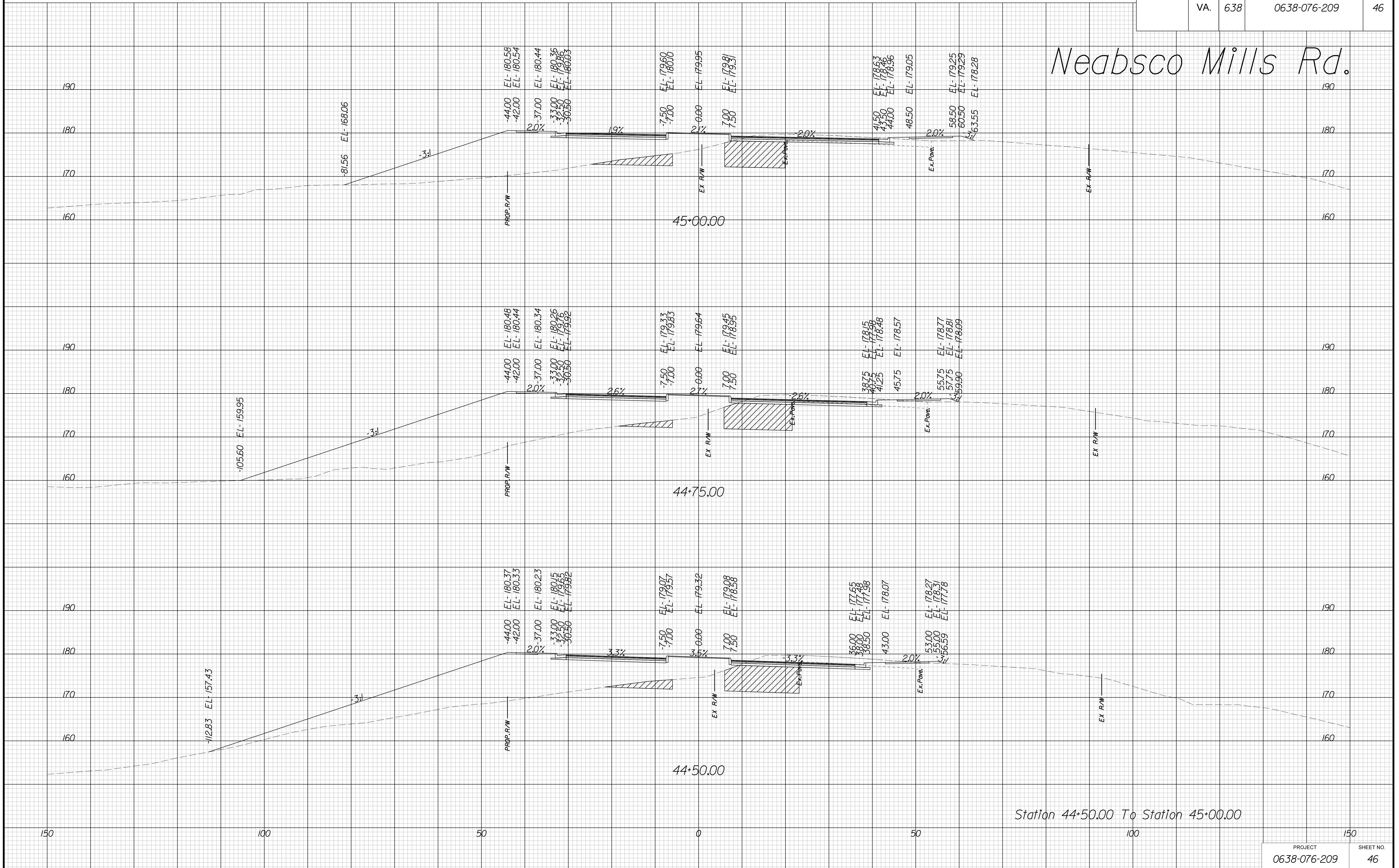
CROSS SECTIONS

SCALE 1 IN. = 10 FT

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

REVISED	STATE	ROUTE	STATE	PROJECT	SHEET NO.
	VA.	638		0638-076-209	46

Neabsco Mills Rd.



THESE PLANS ARE UNFINISHED AND UNAPPROVED AND ARE NOT TO BE USED FOR ANY TYPE OF CONSTRUCTION.

R/W PHASE PLANS

PROJECT MANAGER: EWCDOT:Khattab, Shamout, P.E. (703) 792-7193
SURVEYED BY, DATE: BDA: Ryan, Dreelto, L.S. (703) 334-9302; July 3, 2017
DESIGN BY: BDA: Mack, A. Guro, P.E. (703) 334-9288
SUBSURFACE UTILITY BY, DATE: Accurmark (703) 378-0100; August 1, 2017

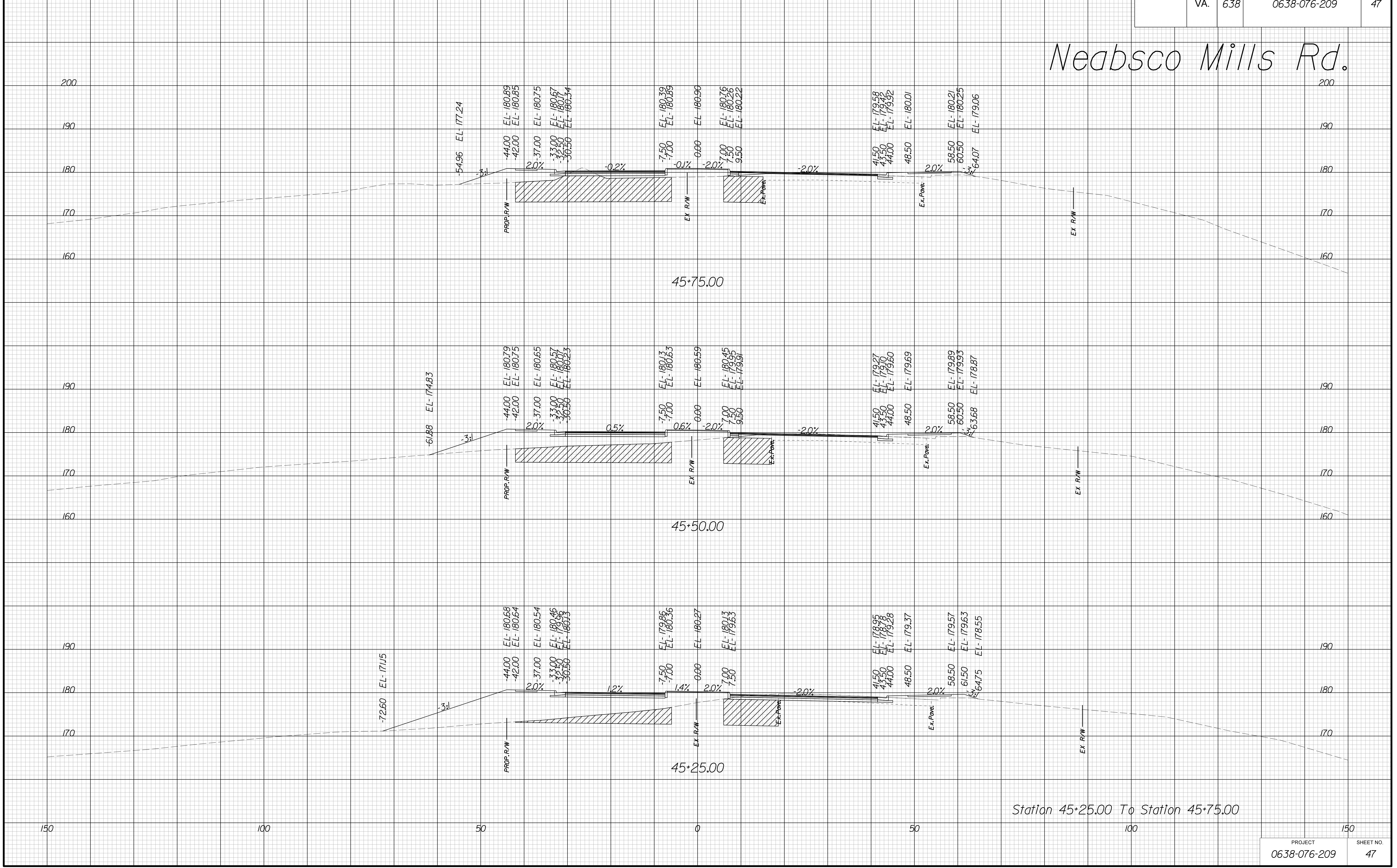
CROSS SECTIONS

SCALE 1 IN. = 10 FT

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

REVISED	STATE	ROUTE	STATE	PROJECT	SHEET NO.
	VA.	638		0638-076-209	47

Neabsco Mills Rd.



Station 45+25.00 To Station 45+75.00

THESE PLANS ARE UNFINISHED AND UNAPPROVED AND ARE NOT TO BE USED FOR ANY TYPE OF CONSTRUCTION.

R/W PHASE PLANS

PROJECT MANAGER: BWCDOIT: Khattab, Shamouf, P.E. (703) 792-7193
SURVEYED BY, DATE: BDA: Ryan, Dreelto, L.S. (703) 334-9302; July 3, 2017
DESIGN BY: BDA: Mack, A. Guro, P.E. (703) 334-9288
SUBSURFACE UTILITY BY, DATE: Accurmark (703) 378-0100; August 1, 2017

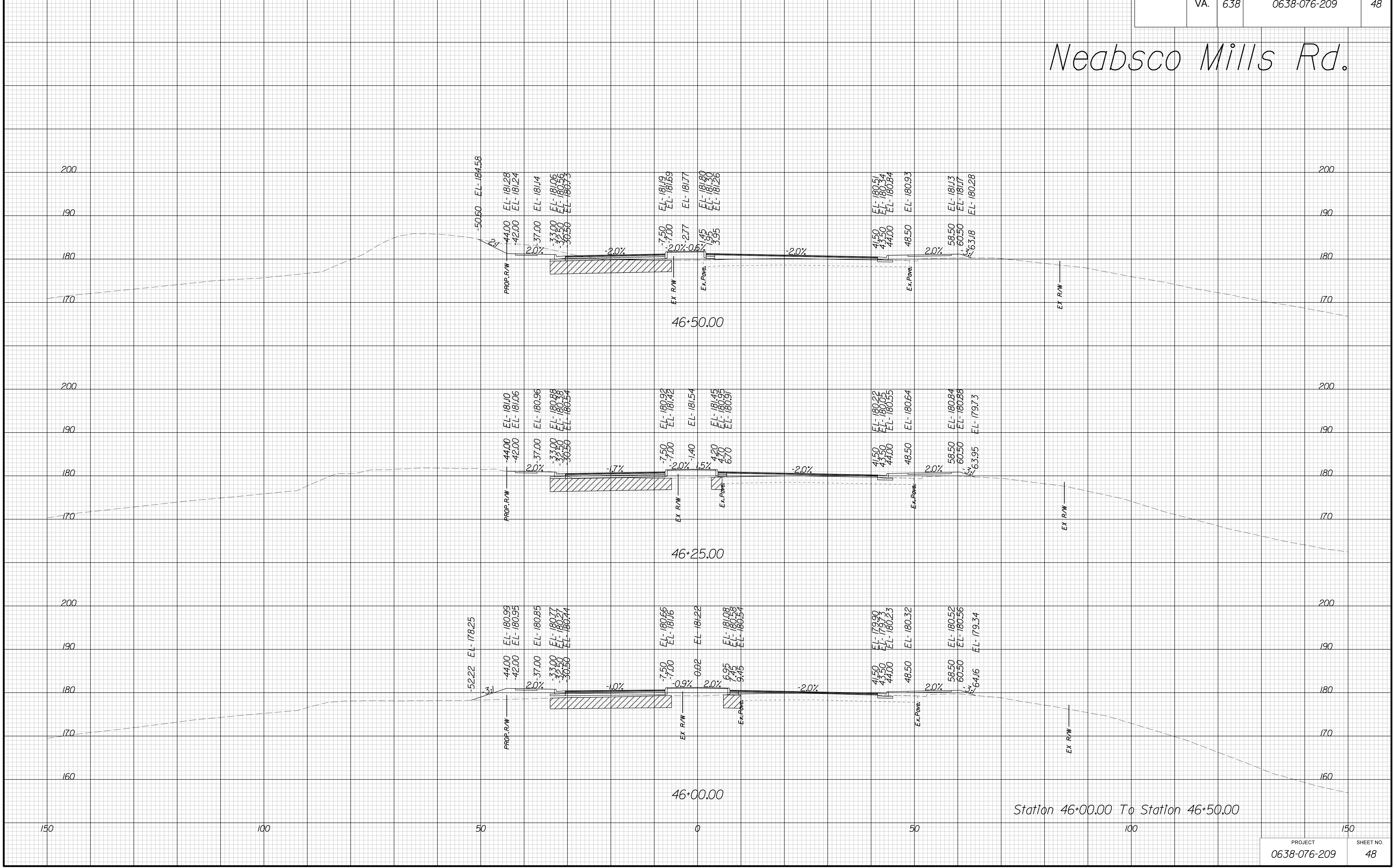
CROSS SECTIONS

SCALE 1 IN. = 10 FT

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

REVISED	STATE	ROUTE	STATE	PROJECT	SHEET NO.
	VA.	638		0638-076-209	48

Neabsco Mills Rd.



Station 46+00.00 To Station 46+50.00

PROJECT	SHEET NO.
0638-076-209	48

THESE PLANS ARE UNFINISHED AND UNAPPROVED AND ARE NOT TO BE USED FOR ANY TYPE OF CONSTRUCTION.

R/W PHASE PLANS

PROJECT MANAGER: EWCDOT:Khattab, Shamouf, P.E. (703) 792-7193
SURVEYED BY, DATE: BDA: Ryan, Dreelto, L.S. (703) 334-9302; July 3, 2017
DESIGN BY: BDA: Mack, A. Guro, P.E. (703) 334-9288
SUBSURFACE UTILITY BY, DATE: Accurmark (703) 378-0100; August 1, 2017

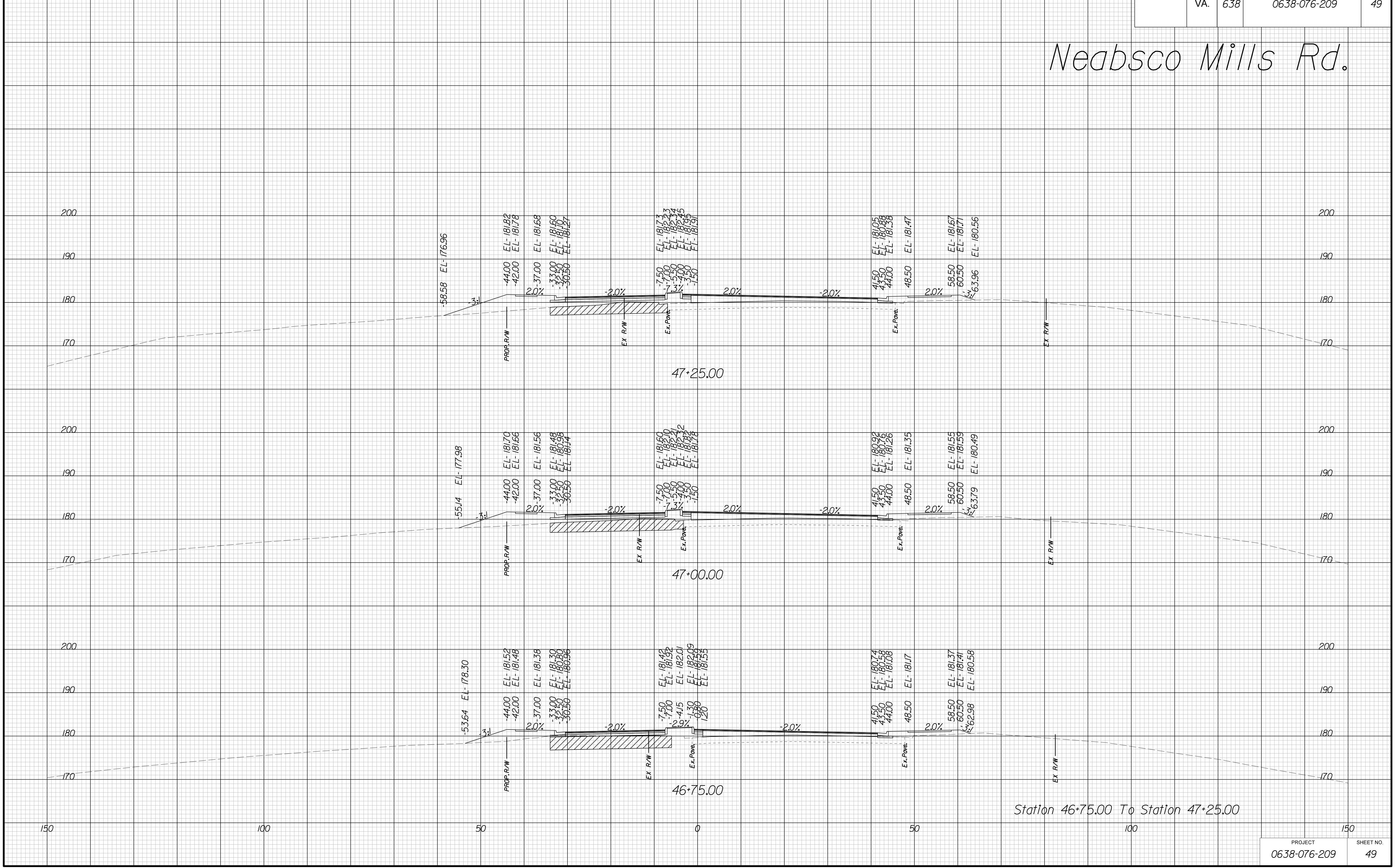
CROSS SECTIONS

SCALE 1 IN. = 10 FT

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

REVISED	STATE	ROUTE	STATE	PROJECT	SHEET NO.
	VA.	638		0638-076-209	49

Neabsco Mills Rd.



Station 46+75.00 To Station 47+25.00

THESE PLANS ARE UNFINISHED AND UNAPPROVED AND ARE NOT TO BE USED FOR ANY TYPE OF CONSTRUCTION.

R/W PHASE PLANS

PROJECT MANAGER: EWCDOT:Khattab, Shamout, P.E. (703) 792-7193
SURVEYED BY: DATE: BDA: Ryan, Dreelto, L.S. (703) 334-9302; July 3, 2017
DESIGN BY: BDA: Mack, A. Guro, P.E. (703) 334-9288
SUBSURFACE UTILITY BY: DATE: Accurmark (703) 378-0100; August 1, 2017

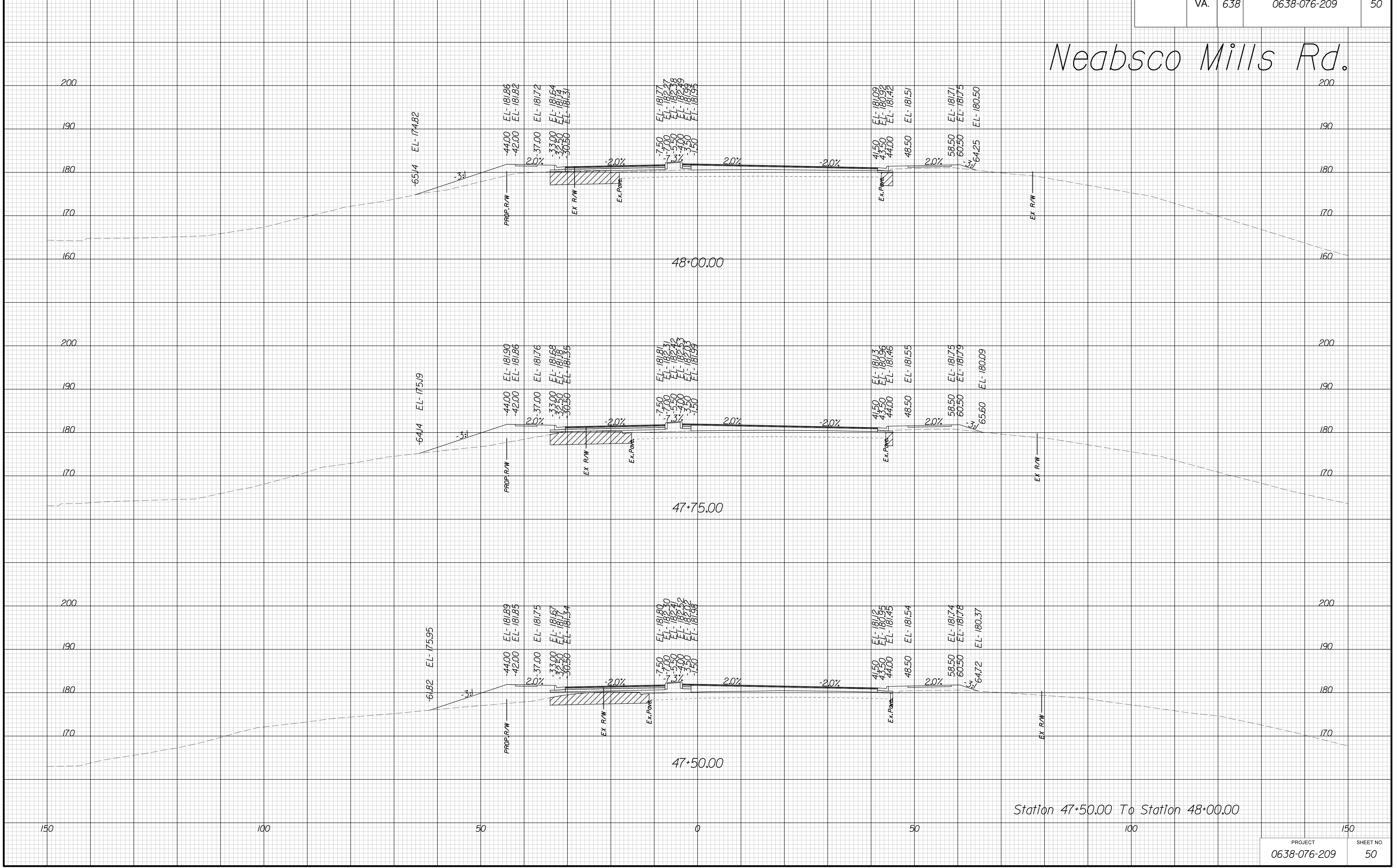
CROSS SECTIONS

SCALE 1 IN. = 10 FT

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

REVISED	STATE	ROUTE	STATE	PROJECT	SHEET NO.
	VA.	638		0638-076-209	50

Neabsco Mills Rd.



Station 47+50.00 To Station 48+00.00

PROJECT	SHEET NO.
0638-076-209	50

THESE PLANS ARE UNFINISHED AND UNAPPROVED AND ARE NOT TO BE USED FOR ANY TYPE OF CONSTRUCTION.

R/W PHASE PLANS

PROJECT MANAGER: BWCDOIT: Khattab, Shamouf, P.E. (703) 792-7193
SURVEYED BY, DATE: BDA: Ryan, Dreelto, L.S. (703) 334-9302; July 3, 2017
DESIGN BY: BDA: Mack, A. Guro, P.E. (703) 334-9288
SUBSURFACE UTILITY BY, DATE: Accurmark (703) 378-0100; August 1, 2017

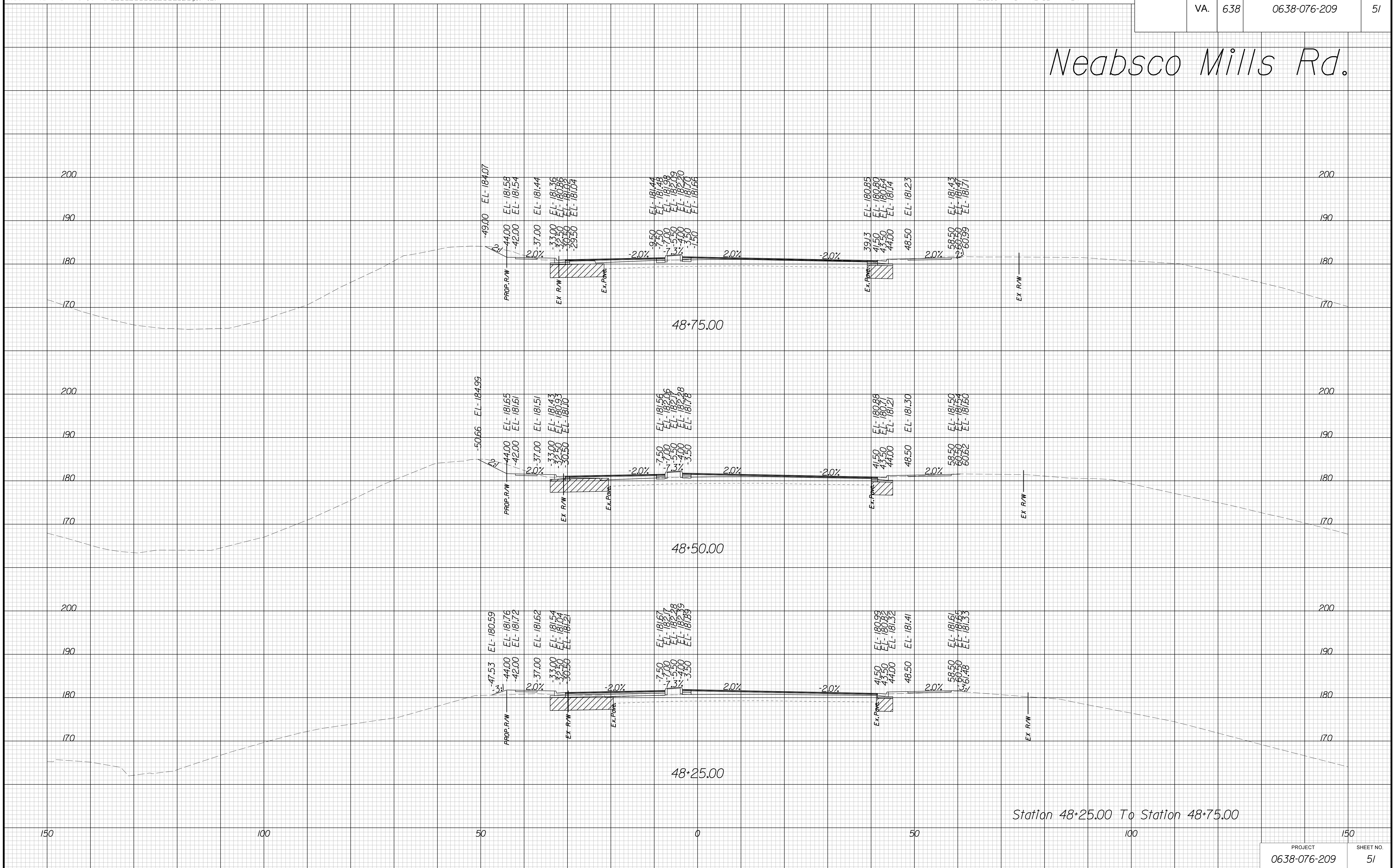
CROSS SECTIONS

SCALE 1 IN. = 10 FT

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

REVISED	STATE	ROUTE	STATE	PROJECT	SHEET NO.
	VA.	638		0638-076-209	51

Neabsco Mills Rd.



Station 48+25.00 To Station 48+75.00

PROJECT	SHEET NO.
0638-076-209	51

THESE PLANS ARE UNFINISHED AND UNAPPROVED AND ARE NOT TO BE USED FOR ANY TYPE OF CONSTRUCTION.

R/W PHASE PLANS

PROJECT MANAGER: BWCDOIT: Khattab, Shamouf, P.E. (703) 792-7193
SURVEYED BY, DATE: BDA: Ryan, Dreello, L.S. (703) 334-9302; July 3, 2017
DESIGN BY: BDA: Mack, Guro, P.E. (703) 334-9288
SUBSURFACE UTILITY BY, DATE: Accurmark (703) 378-0100; August 1, 2017

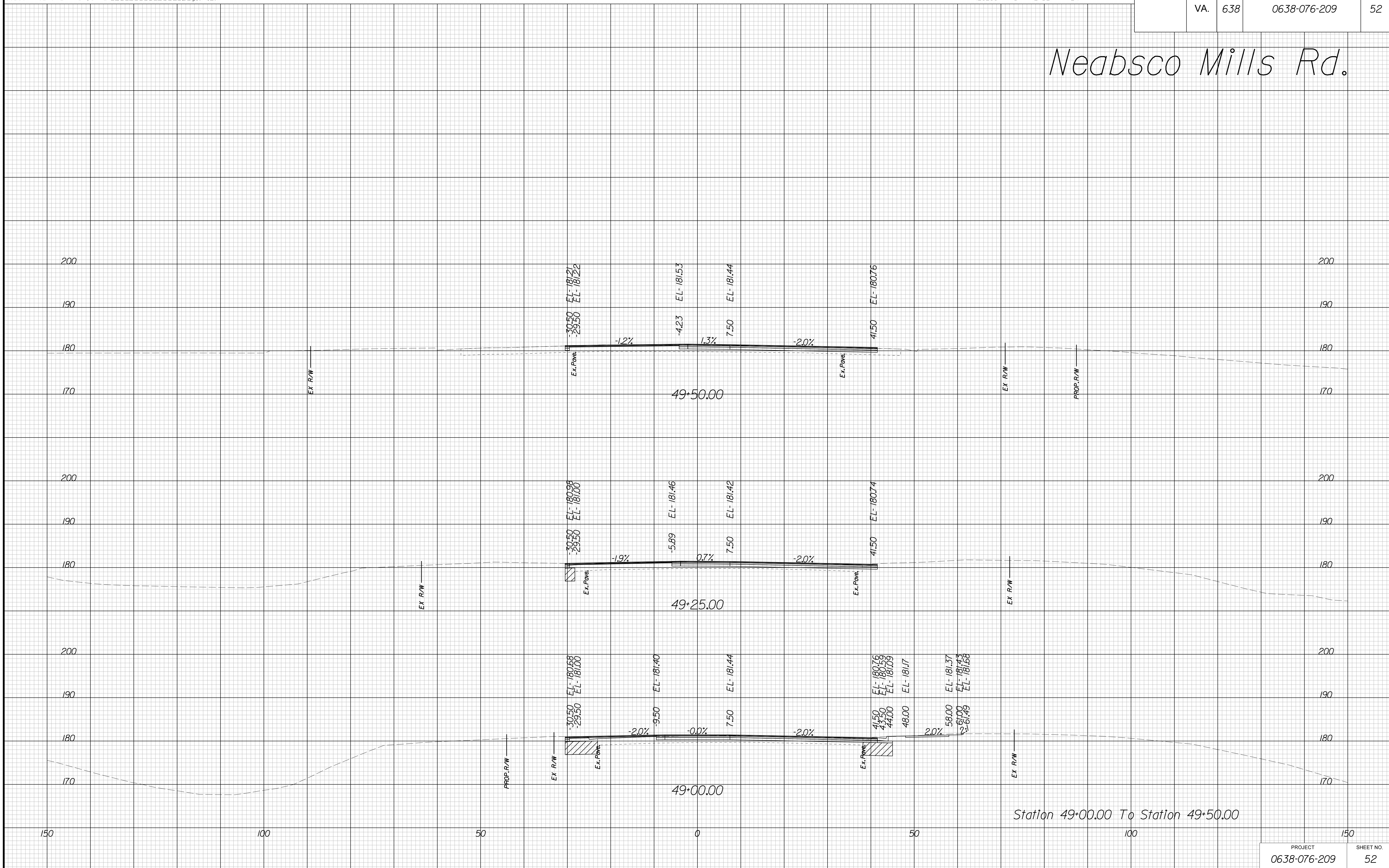
CROSS SECTIONS

SCALE 1 IN. = 10 FT

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

REVISED	STATE	ROUTE	STATE PROJECT	SHEET NO.
	VA.	638	0638-076-209	52

Neabsco Mills Rd.



Station 49+00.00 To Station 49+50.00

PROJECT	SHEET NO.
0638-076-209	52

THESE PLANS ARE UNFINISHED AND UNAPPROVED AND ARE NOT TO BE USED FOR ANY TYPE OF CONSTRUCTION.

R/W PHASE PLANS

PROJECT MANAGER: EWCDOT:Khattab, Shamout, P.E. (703) 792-7193
SURVEYED BY, DATE: BDA: Ryan, Dreelto, L.S. (703) 334-9302; July 3, 2017
DESIGN BY: BDA: Mack, A. Guro, P.E. (703) 334-9288
SUBSURFACE UTILITY BY, DATE: Accurmark (703) 378-0100; August 1, 2017

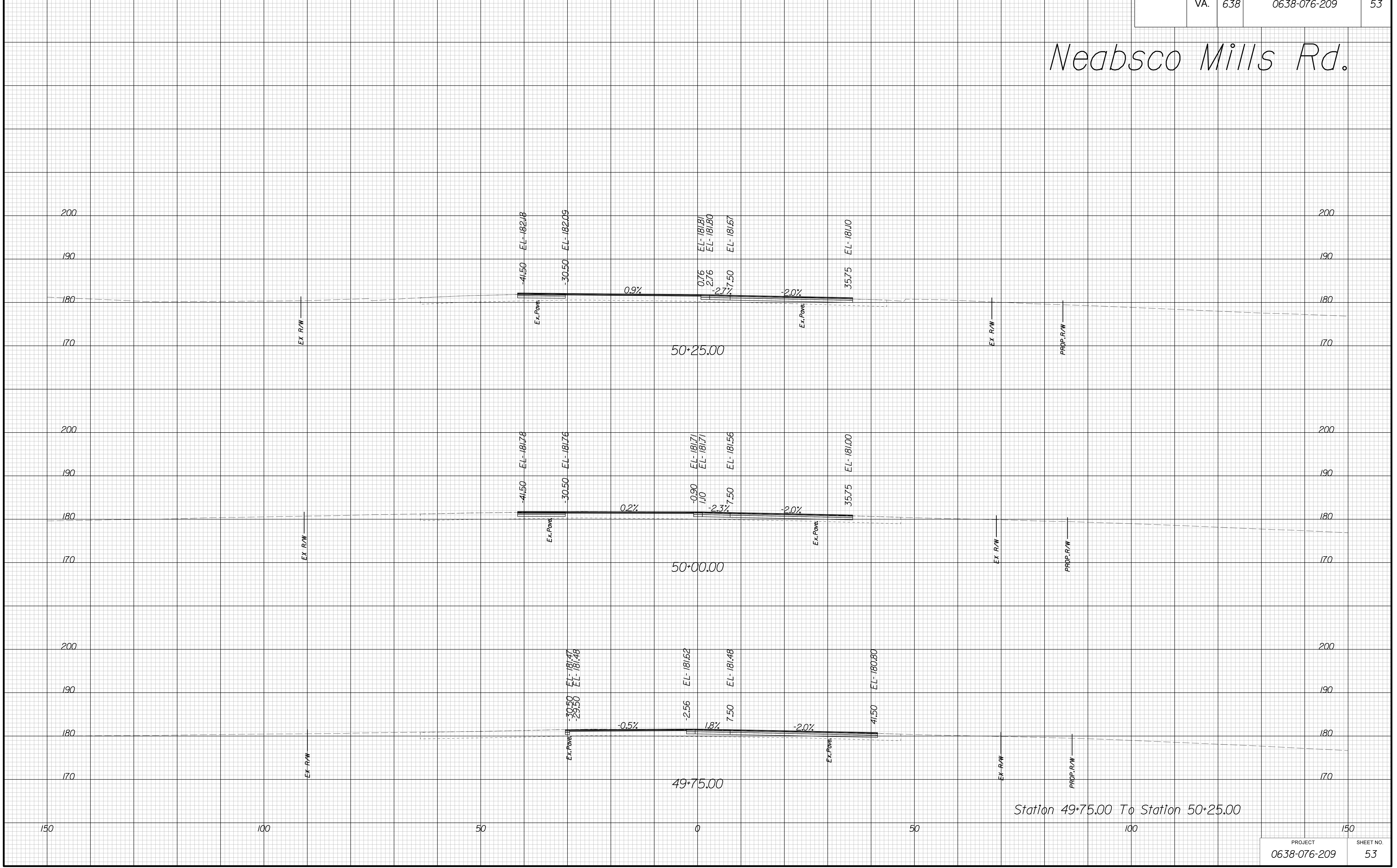
CROSS SECTIONS

SCALE 1 IN. = 10 FT

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

REVISED	STATE	ROUTE	STATE	PROJECT	SHEET NO.
	VA.	638		0638-076-209	53

Neabsco Mills Rd.



Station 49+75.00 To Station 50+25.00

PROJECT	SHEET NO.
0638-076-209	53

THESE PLANS ARE UNFINISHED AND UNAPPROVED AND ARE NOT TO BE USED FOR ANY TYPE OF CONSTRUCTION.

R/W PHASE PLANS

PROJECT MANAGER: EWCDDOT: Khattab, Shamouf, P.E. (703) 792-7193
SURVEYED BY, DATE: BDA: Ryan, Dreelto, L.S. (703) 334-9302; July 3, 2017
DESIGN BY: BDA: Mack, A. Guro, P.E. (703) 334-9288
SUBSURFACE UTILITY BY, DATE: Accurmark (703) 378-0100; August 1, 2017

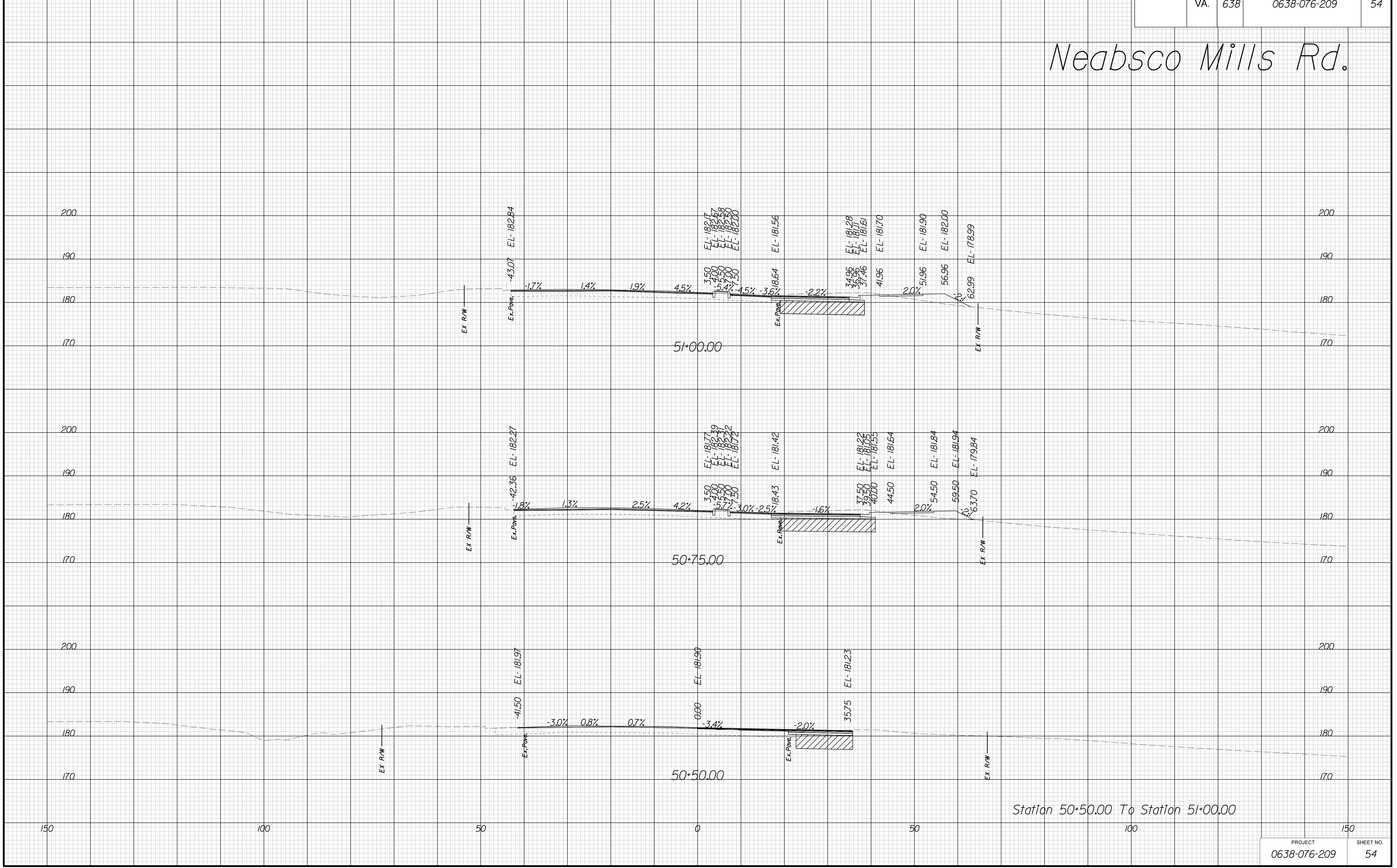
CROSS SECTIONS

SCALE 1 IN. = 10 FT

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

REVISED	STATE	ROUTE	STATE PROJECT	SHEET NO.
	VA.	638	0638-076-209	54

Neabsco Mills Rd.



Station 50+50.00 To Station 51+00.00

PROJECT	SHEET NO.
0638-076-209	54

THESE PLANS ARE UNFINISHED AND UNAPPROVED AND ARE NOT TO BE USED FOR ANY TYPE OF CONSTRUCTION.

R/W PHASE PLANS

PROJECT MANAGER: EWCDDOT: Khattab, Shamouf, P.E. (703) 792-7193
SURVEYED BY, DATE: BDA: Ryan, Dreelto, L.S. (703) 334-9302; July 3, 2017
DESIGN BY: BDA: Mack, A. Guro, P.E. (703) 334-9288
SUBSURFACE UTILITY BY, DATE: Accurmark (703) 378-0100; August 1, 2017

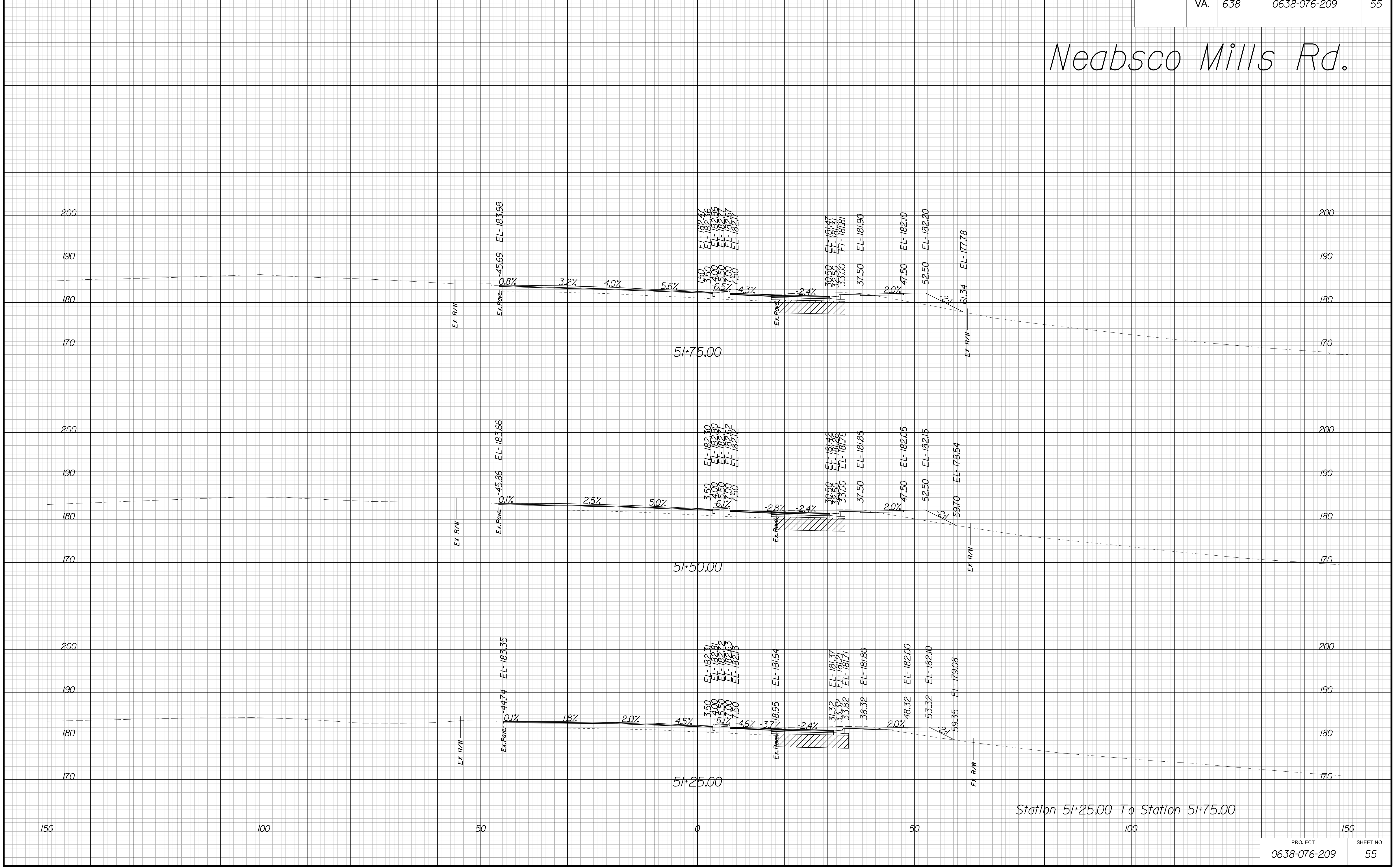
CROSS SECTIONS

SCALE 1 IN. = 10 FT

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

REVISED	STATE	ROUTE	STATE PROJECT	SHEET NO.
	VA.	638	0638-076-209	55

Neabsco Mills Rd.



Station 51+25.00 To Station 51+75.00

THESE PLANS ARE UNFINISHED AND UNAPPROVED AND ARE NOT TO BE USED FOR ANY TYPE OF CONSTRUCTION.

R/W PHASE PLANS

PROJECT MANAGER: BWCDDI-Khattab, Shamout, P.E. (703) 792-7193
SURVEYED BY: DATE BDA: Ryan, Dreelto, L.S. (703) 334-9302; July 3, 2017
DESIGN BY: BDA: Mack, A. Guro, P.E. (703) 334-9288
SUBSURFACE UTILITY BY: DATE Accurmark (703) 378-0100; August 1, 2017

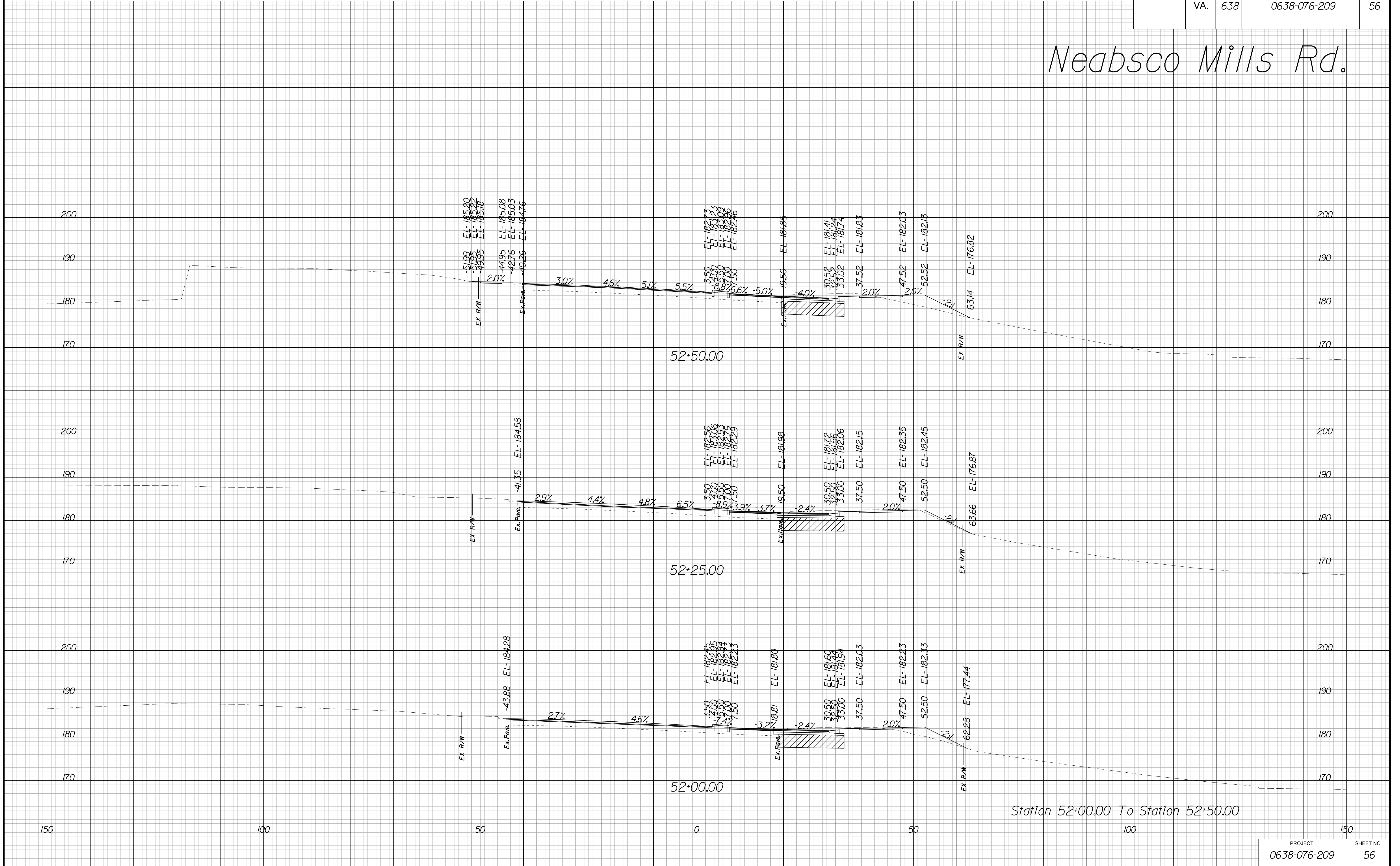
CROSS SECTIONS

SCALE 1 IN. = 10 FT

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

REVISED	STATE	STATE		SHEET NO.
	ROUTE	PROJECT		
	VA.	638	0638-076-209	56

Neabsco Mills Rd.



THESE PLANS ARE UNFINISHED AND UNAPPROVED AND ARE NOT TO BE USED FOR ANY TYPE OF CONSTRUCTION.

R/W PHASE PLANS

PROJECT MANAGER: EWCDOT:Khattab, Shamout, P.E. (703) 792-7193
SURVEYED BY, DATE: BDA: Ryan, Dreelto, L.S. (703) 334-9302; July 3, 2017
DESIGN BY: BDA: Mack, A. Guro, P.E. (703) 334-9288
SUBSURFACE UTILITY BY, DATE: Accurmark (703) 378-0100; August 1, 2017

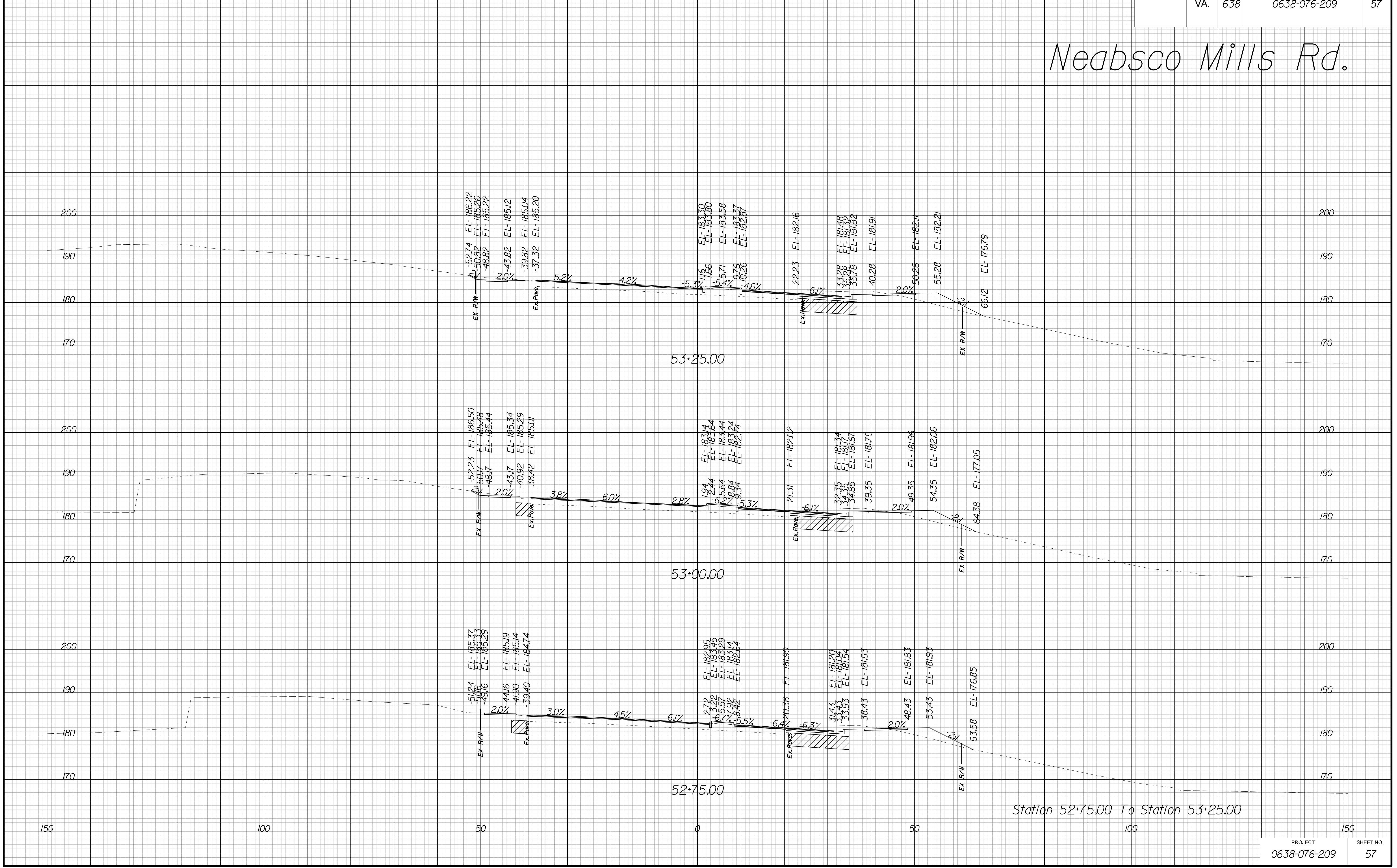
CROSS SECTIONS

SCALE 1 IN. = 10 FT

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

REVISED	STATE	ROUTE	STATE PROJECT	SHEET NO.
	VA.	638	0638-076-209	57

Neabsco Mills Rd.



THESE PLANS ARE UNFINISHED AND UNAPPROVED AND ARE NOT TO BE USED FOR ANY TYPE OF CONSTRUCTION.

R/W PHASE PLANS

PROJECT MANAGER: EWC DOT: Khattab, Shamout, P.E. (703) 792-7193
SURVEYED BY: DATE BDA: Ryan, Dreelto, L.S. (703) 334-9302; July 3, 2017
DESIGN BY: BDA: Mack, A. Guro, P.E. (703) 334-9288
SUBSURFACE UTILITY BY: DATE: Accurmark (703) 378-0100; August 1, 2017

CROSS SECTIONS

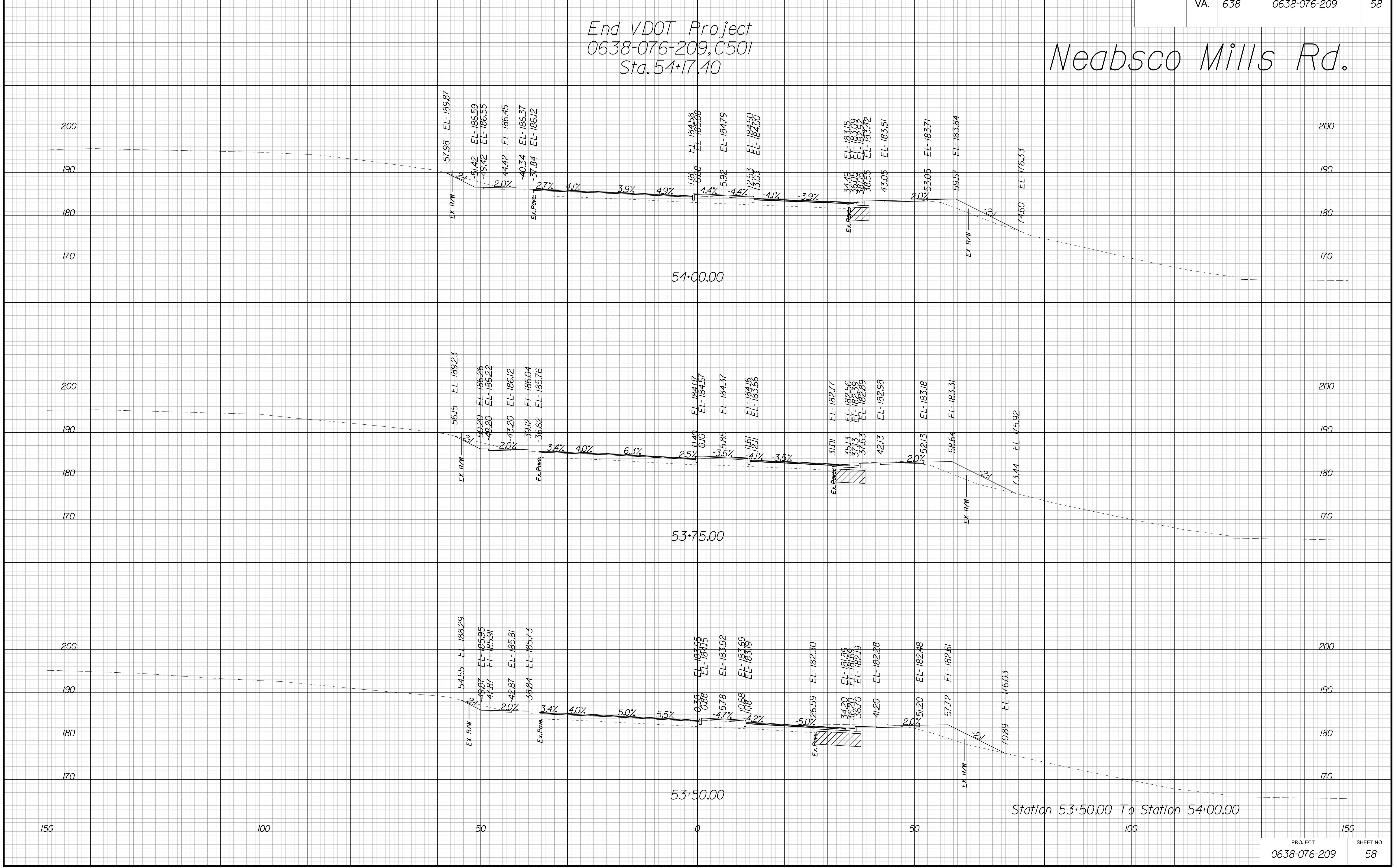
SCALE 1 IN. = 10 FT

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

REVISED	STATE	ROUTE	STATE	PROJECT	SHEET NO.
	VA.	638		0638-076-209	58

End VDOT Project
0638-076-209, C501
Sta. 54+17.40

Neabsco Mills Rd.



Station 53+50.00 To Station 54+00.00

PROJECT	SHEET NO.
0638-076-209	58

THESE PLANS ARE UNFINISHED AND UNAPPROVED AND ARE NOT TO BE USED FOR ANY TYPE OF CONSTRUCTION.

R/W PHASE PLANS

PROJECT MANAGER: EWCDOT:Khattab, Shamout, P.E. (703) 792-7193
SURVEYED BY: DATE BDA: Ryan, Dreelto, L.S. (703) 334-9302; July 3, 2017
DESIGN BY BDA: Mack, A. Guro, P.E. (703) 334-9288
SUBSURFACE UTILITY BY: DATE Accurmark (703) 378-0100; August 1, 2017

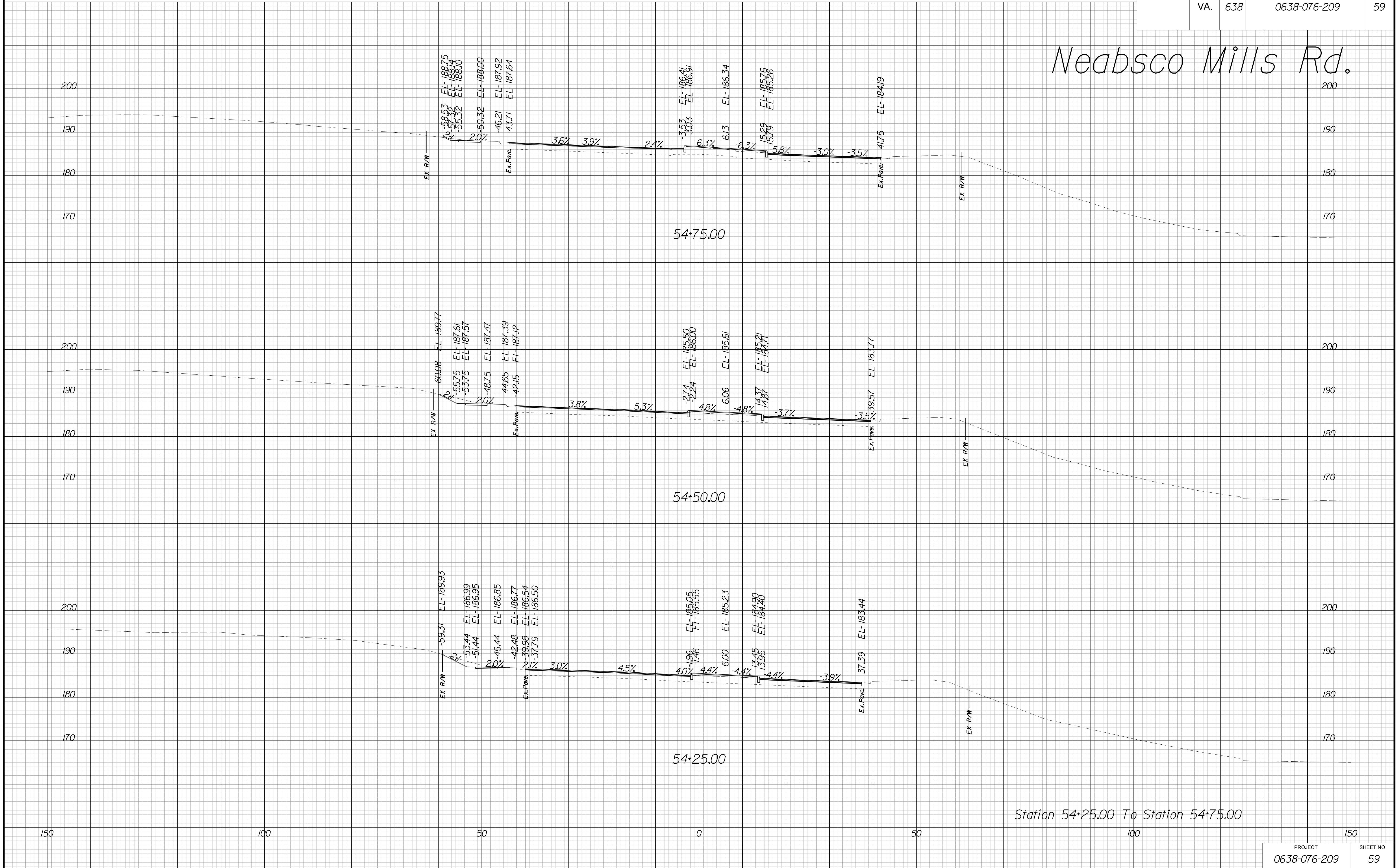
CROSS SECTIONS

SCALE 1 IN. = 10 FT

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

REVISED	STATE	ROUTE	STATE	PROJECT	SHEET NO.
	VA.	638		0638-076-209	59

Neabsco Mills Rd.



Station 54+25.00 To Station 54+75.00

PROJECT	SHEET NO.
0638-076-209	59

THESE PLANS ARE UNFINISHED AND UNAPPROVED AND ARE NOT TO BE USED FOR ANY TYPE OF CONSTRUCTION.

R/W PHASE PLANS

PROJECT MANAGER: EWCDOT:Khattab, Shamout, P.E. (703) 792-7193
SURVEYED BY: DATE BDA: Ryan, Dreelto, L.S. (703) 334-9302; July 3, 2017
DESIGN BY: BDA: Mack, A. Guro, P.E. (703) 334-9288
SUBSURFACE UTILITY BY: DATE: Accurmark (703) 378-0100; August 1, 2017

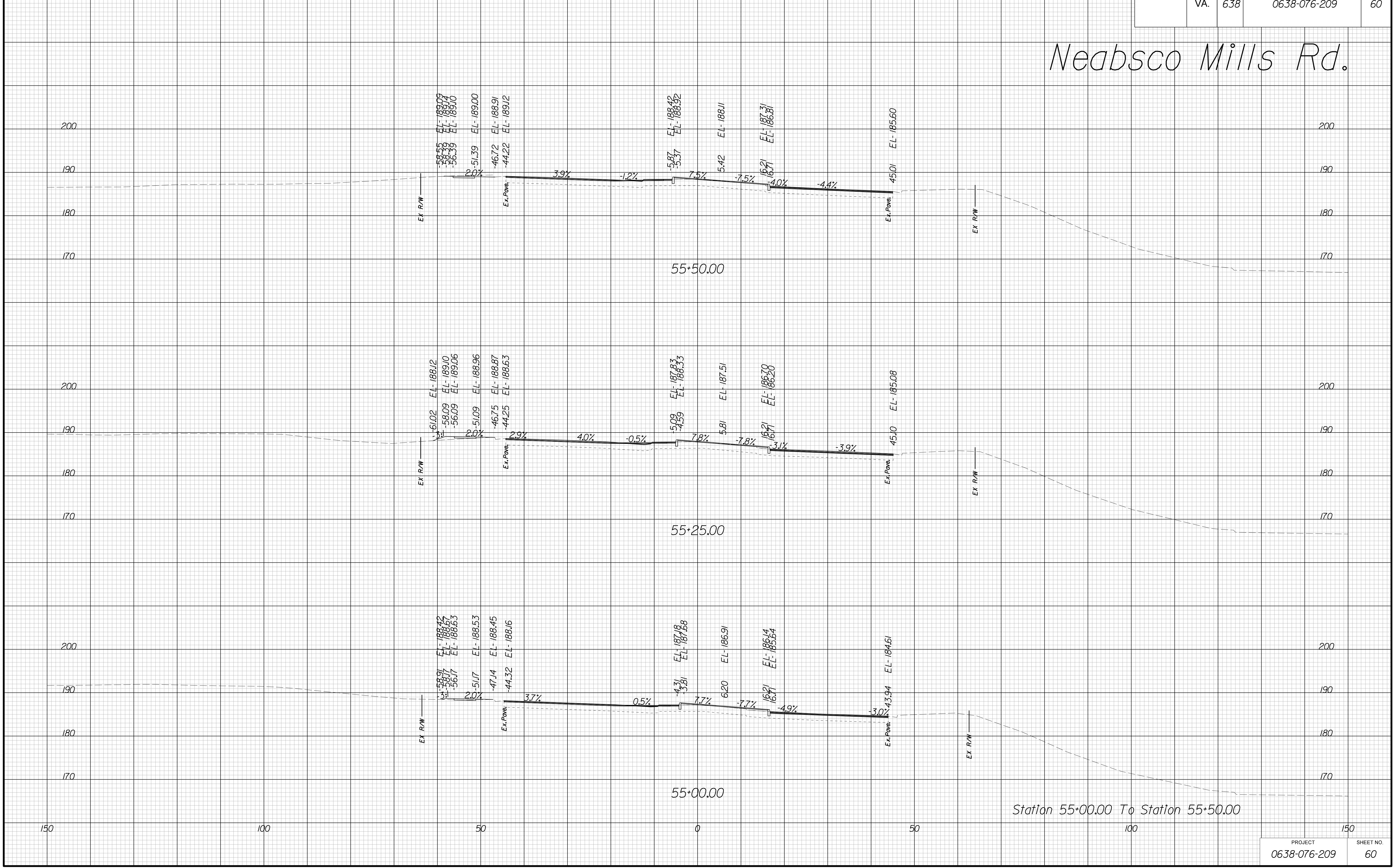
CROSS SECTIONS

SCALE 1 IN. = 10 FT

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

REVISED	STATE	ROUTE	STATE	PROJECT	SHEET NO.
	VA.	638		0638-076-209	60

Neabsco Mills Rd.



THESE PLANS ARE UNFINISHED AND UNAPPROVED AND ARE NOT TO BE USED FOR ANY TYPE OF CONSTRUCTION.

R/W PHASE PLANS

PROJECT MANAGER: EWC DOT: Khattab, Shamout, P.E. (703) 792-7193
SURVEYED BY, DATE: BDA: Ryan, Dreelto, L.S. (703) 334-9302; July 3, 2017
DESIGN BY: BDA: Mack, A. Guro, P.E. (703) 334-9288
SUBSURFACE UTILITY BY, DATE: Accurmark (703) 378-0100; August 1, 2017

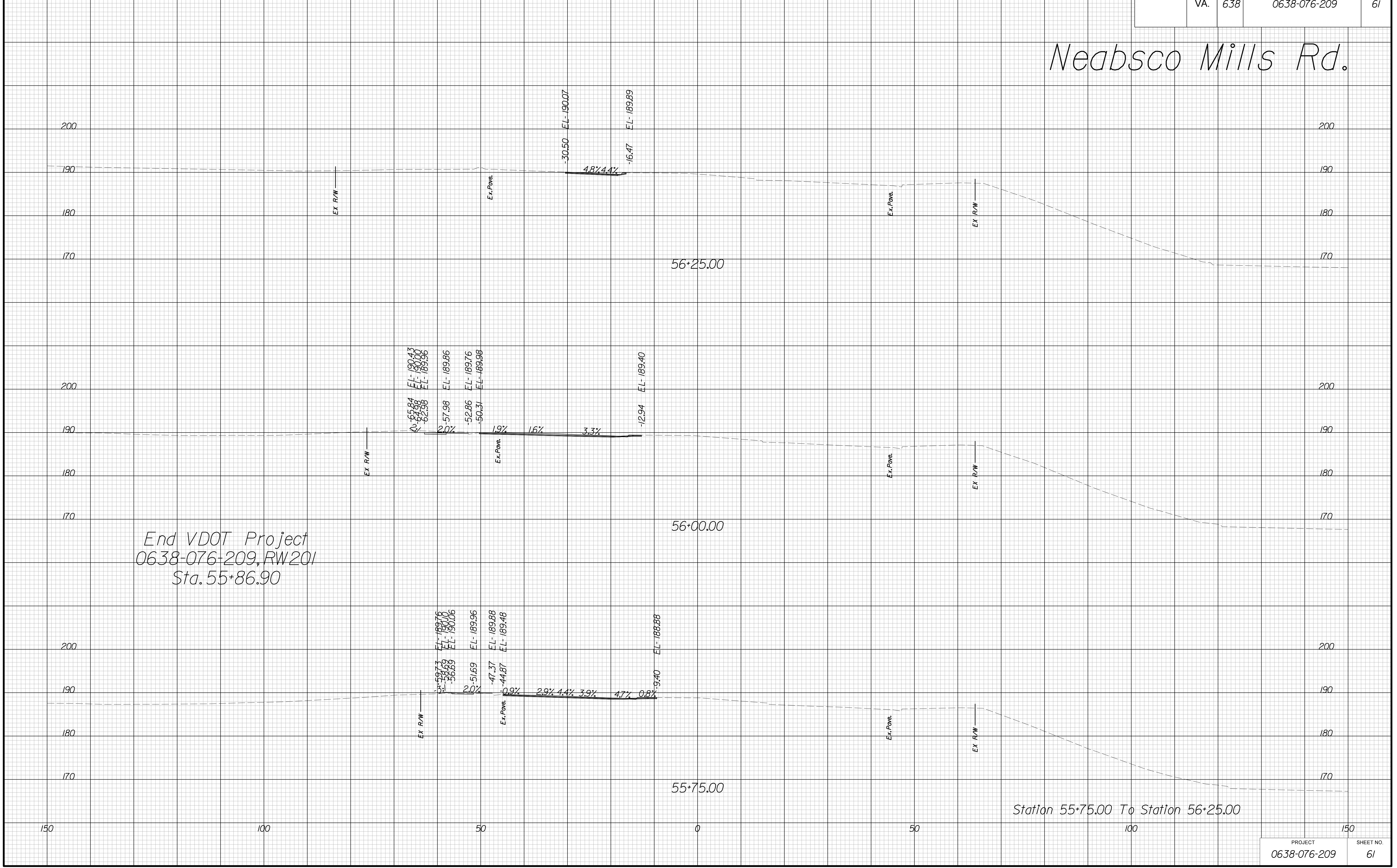
CROSS SECTIONS

SCALE 1 IN. = 10 FT

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

REVISED	STATE	ROUTE	STATE	PROJECT	SHEET NO.
	VA.	638		0638-076-209	61

Neabsco Mills Rd.



End VDOT Project
0638-076-209, RW201
Sta. 55+86.90

Station 55+75.00 To Station 56+25.00

THESE PLANS ARE UNFINISHED AND UNAPPROVED AND ARE NOT TO BE USED FOR ANY TYPE OF CONSTRUCTION.

R/W PHASE PLANS

PROJECT MANAGER: EWCDOT:Khattab, Shamout, P.E. (703) 792-7193
SURVEYED BY, DATE: BDA: Ryan, Dreillo, L.S. (703) 334-9302; July 3, 2017
DESIGN BY: BDA: Mack, A. Guro, P.E. (703) 334-9288
SUBSURFACE UTILITY BY, DATE: Accurmark (703) 378-0100; August 1, 2017

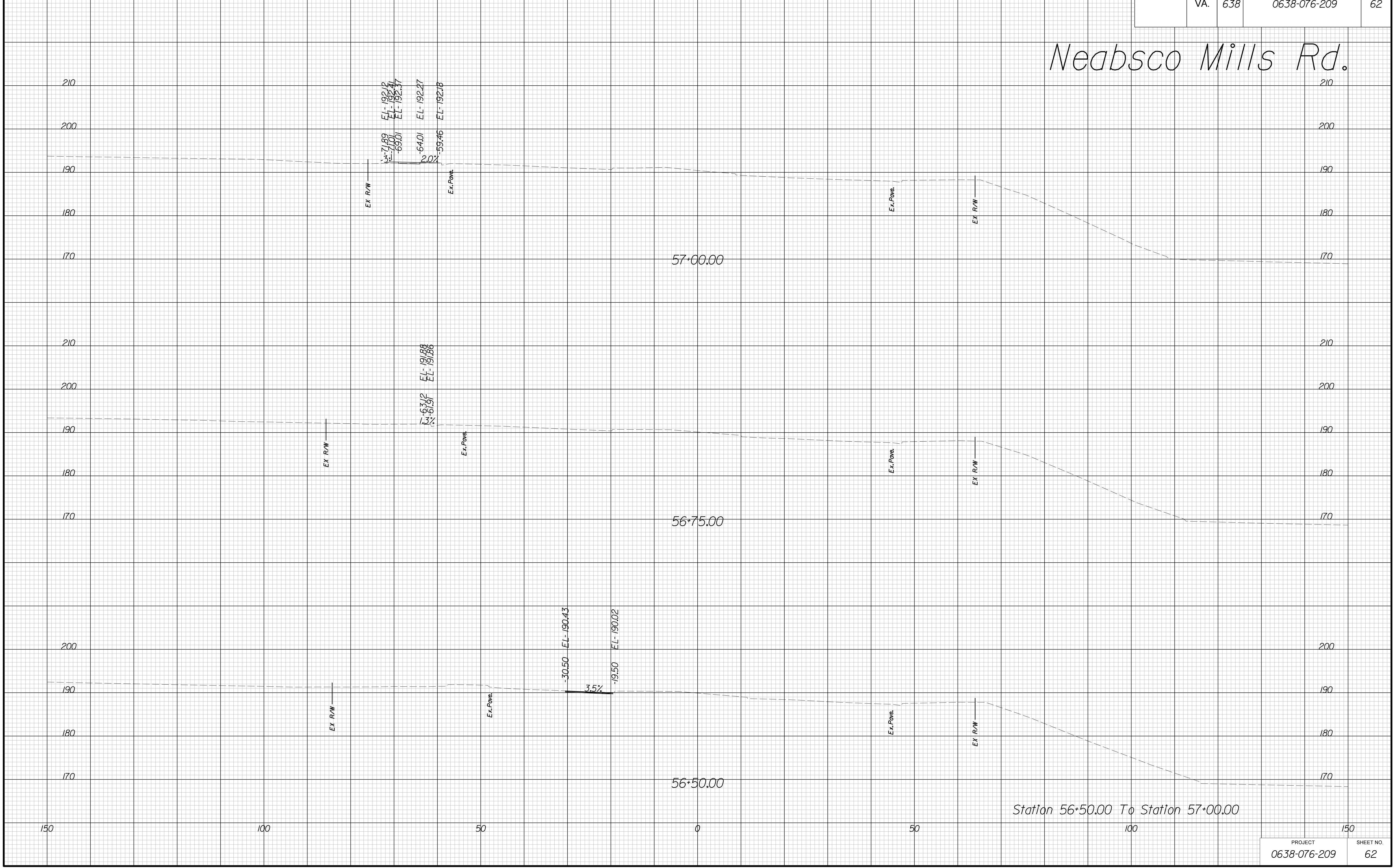
CROSS SECTIONS

SCALE 1 IN. = 10 FT

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

REVISED	STATE	ROUTE	STATE	PROJECT	SHEET NO.
	VA.	638		0638-076-209	62

Neabsco Mills Rd.



THESE PLANS ARE UNFINISHED AND UNAPPROVED AND ARE NOT TO BE USED FOR ANY TYPE OF CONSTRUCTION.

R/W PHASE PLANS

PROJECT MANAGER: BWCDDOT: Khattab, Shamout, P.E. (703) 792-7193
SURVEYED BY, DATE: BDA: Ryan, Dreelto, L.S. (703) 334-9302; July 3, 2017
DESIGN BY: BDA: Mack, A. Guro, P.E. (703) 334-9288
SUBSURFACE UTILITY BY, DATE: Accurmark (703) 378-0100; August 1, 2017

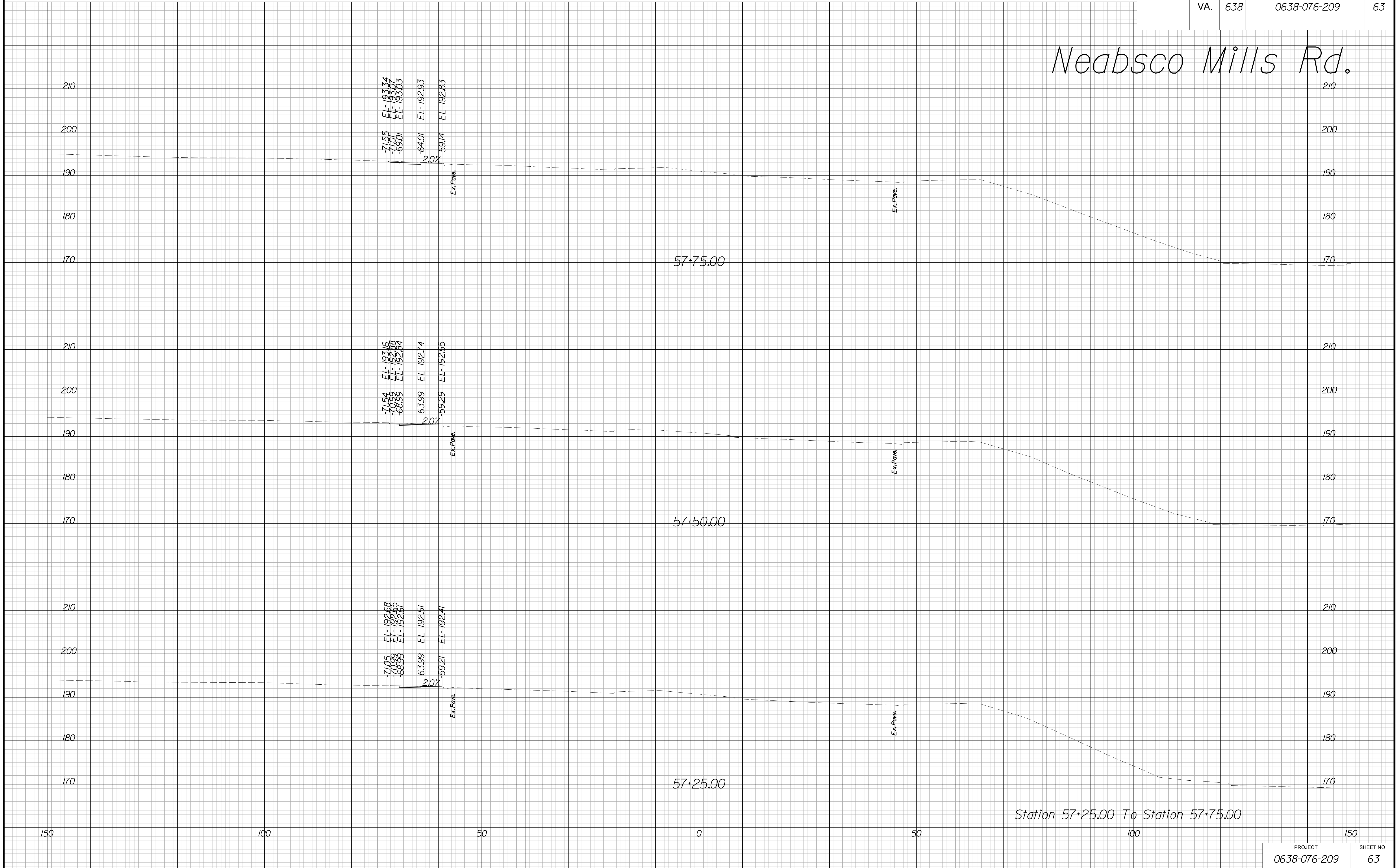
CROSS SECTIONS

SCALE 1 IN. = 10 FT

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

REVISED	STATE	ROUTE	STATE PROJECT	SHEET NO.
	VA.	638	0638-076-209	63

Neabsco Mills Rd.



Station 57+25.00 To Station 57+75.00

PROJECT	SHEET NO.
0638-076-209	63

THESE PLANS ARE UNFINISHED AND UNAPPROVED AND ARE NOT TO BE USED FOR ANY TYPE OF CONSTRUCTION.

R/W PHASE PLANS

PROJECT MANAGER: EWCDOT: Khatib, Shamout, P.E. (703) 792-7193
SURVEYED BY, DATE: BDA: Ryan, Dreillo, L.S. (703) 334-9302; July 3, 2017
DESIGN BY: BDA: Mack, A. Guro, P.E. (703) 334-9288
SUBSURFACE UTILITY BY, DATE: Accurmark (703) 378-0100; August 1, 2017

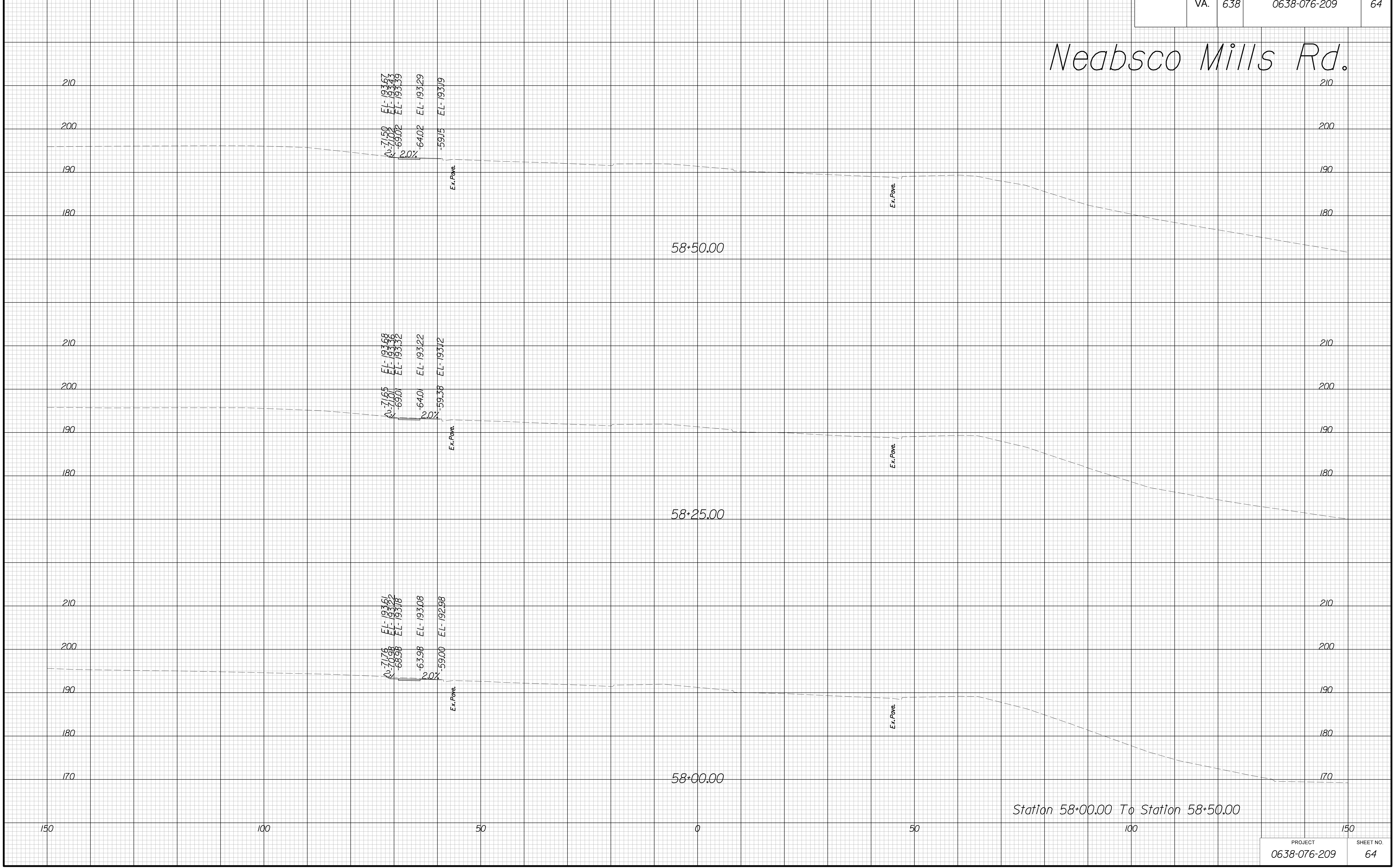
CROSS SECTIONS

SCALE 1 IN. = 10 FT

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

REVISED	STATE	ROUTE	STATE PROJECT	SHEET NO.
	VA.	638	0638-076-209	64

Neabsco Mills Rd.



Station 58+00.00 To Station 58+50.00

PROJECT	SHEET NO.
0638-076-209	64

THESE PLANS ARE UNFINISHED AND UNAPPROVED AND ARE NOT TO BE USED FOR ANY TYPE OF CONSTRUCTION.

R/W PHASE PLANS

PROJECT MANAGER: EWCDOT: Khattab, Shamout, P.E. (703) 792-7193
SURVEYED BY, DATE: BDA: Ryan, Dreelto, L.S. (703) 334-9302; July 3, 2017
DESIGN BY: BDA: Mack, A. Guro, P.E. (703) 334-9288
SUBSURFACE UTILITY BY, DATE: Accurmark (703) 378-0100; August 1, 2017

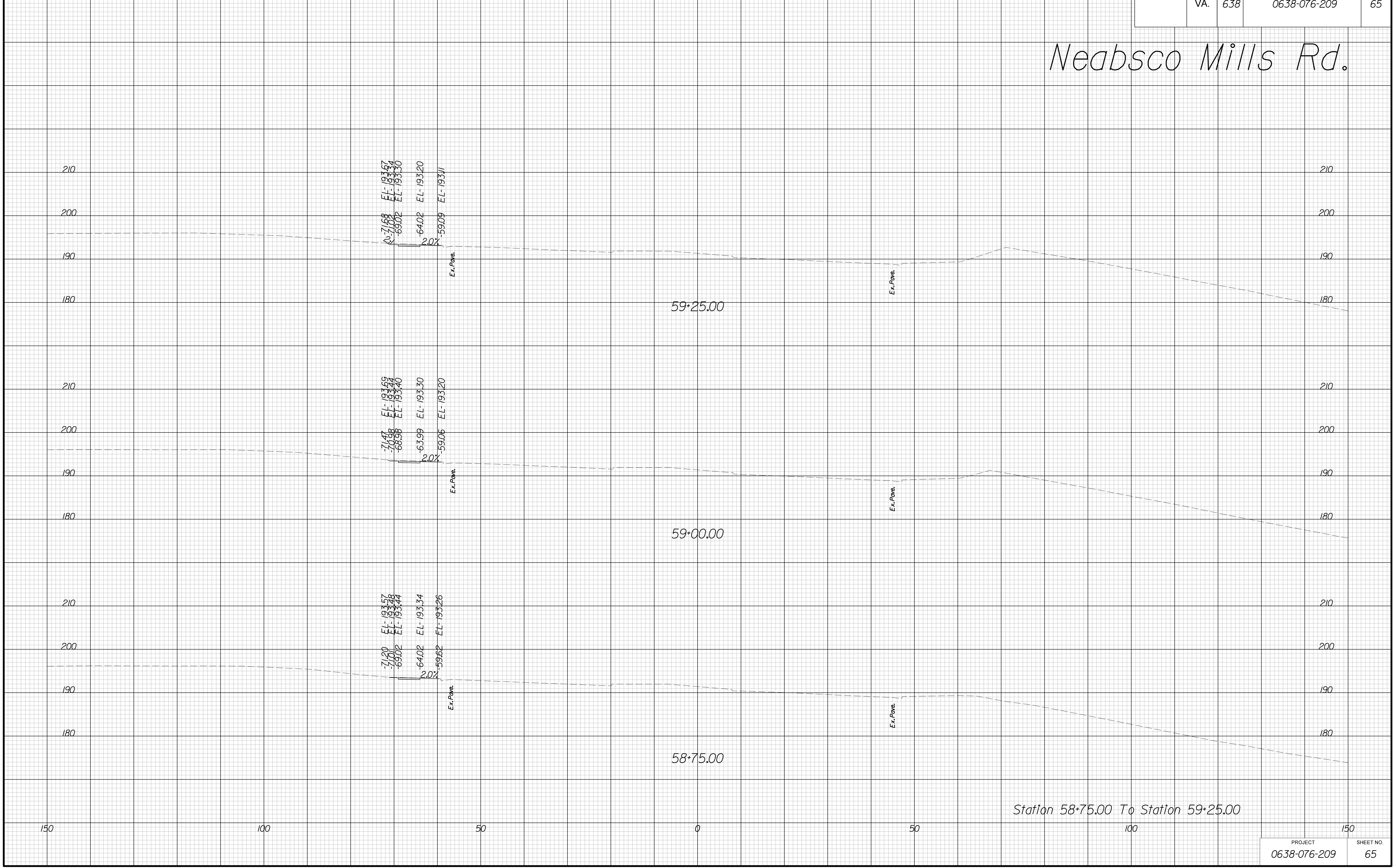
CROSS SECTIONS

SCALE 1 IN. = 10 FT

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

REVISED	STATE	ROUTE	STATE PROJECT	SHEET NO.
	VA.	638	0638-076-209	65

Neabsco Mills Rd.



Station 58+75.00 To Station 59+25.00

PROJECT	SHEET NO.
0638-076-209	65

THESE PLANS ARE UNFINISHED AND UNAPPROVED AND ARE NOT TO BE USED FOR ANY TYPE OF CONSTRUCTION.

R/W PHASE PLANS

PROJECT MANAGER: EWCDDOT: Khattab, Shamout, P.E. (703) 792-7193
SURVEYED BY, DATE: BDA: Ryan, Dreelto, L.S. (703) 334-9302; July 3, 2017
DESIGN BY: BDA: Mack, Guro, P.E. (703) 334-9288
SUBSURFACE UTILITY BY, DATE: Accurmark (703) 378-0100; August 1, 2017

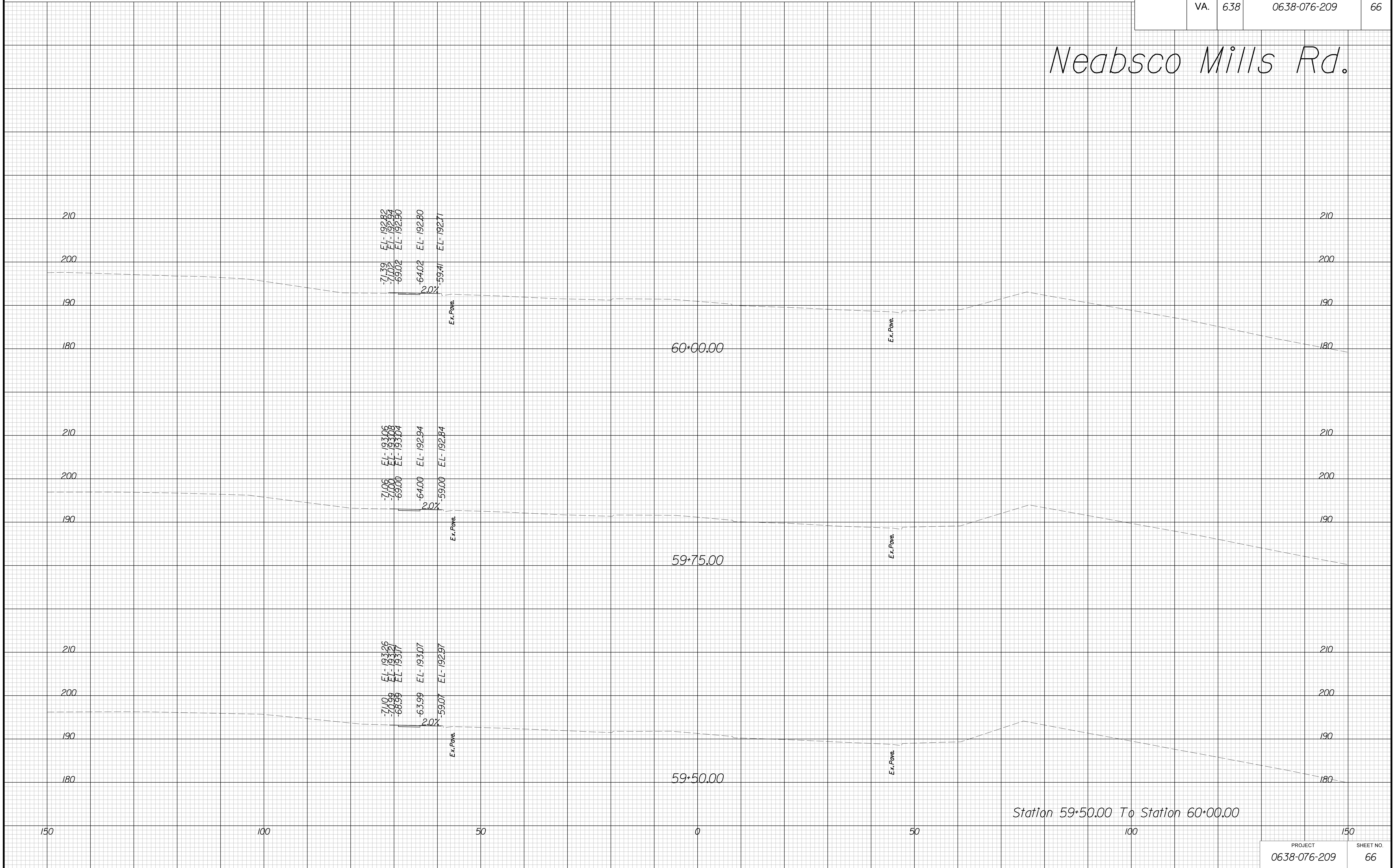
CROSS SECTIONS

SCALE 1 IN. = 10 FT

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

REVISED	STATE	ROUTE	STATE PROJECT	SHEET NO.
	VA.	638	0638-076-209	66

Neabsco Mills Rd.



THESE PLANS ARE UNFINISHED AND UNAPPROVED AND ARE NOT TO BE USED FOR ANY TYPE OF CONSTRUCTION.

R/W PHASE PLANS

PROJECT MANAGER: EWCDDOT: Khatib, Shamouf, P.E. (703) 792-7193
SURVEYED BY, DATE: BDA: Ryan, Dreello, L.S. (703) 334-9302; July 3, 2017
DESIGN BY: BDA: Mack, A. Guro, P.E. (703) 334-9288
SUBSURFACE UTILITY BY, DATE: Accurmark (703) 378-0100; August 1, 2017

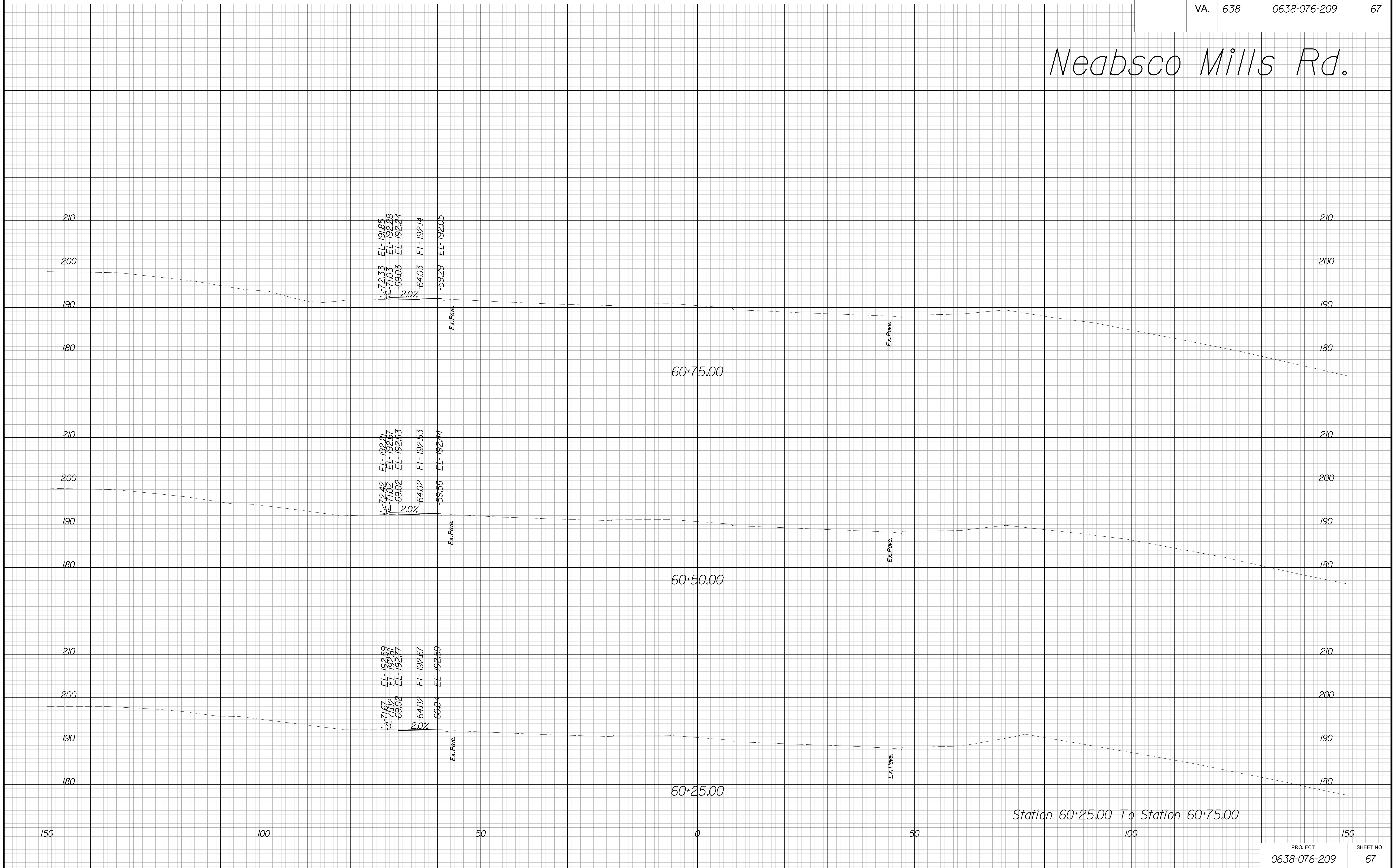
CROSS SECTIONS

SCALE 1 IN. = 10 FT

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

REVISED	STATE	STATE		SHEET NO.
	ROUTE	PROJECT		
	VA.	638	0638-076-209	67

Neabsco Mills Rd.



PROJECT	SHEET NO.
0638-076-209	67

THESE PLANS ARE UNFINISHED AND UNAPPROVED AND ARE NOT TO BE USED FOR ANY TYPE OF CONSTRUCTION.

R/W PHASE PLANS

PROJECT MANAGER: EWCDDOT:Khattab, Shamout, P.E. (703) 792-7193
SURVEYED BY, DATE: BDA: Ryan, Dreello, L.S. (703) 334-9302; July 3, 2017
DESIGN BY: BDA: Mack, A. Guro, P.E. (703) 334-9288
SUBSURFACE UTILITY BY, DATE: Accurmark (703) 378-0100; August 1, 2017

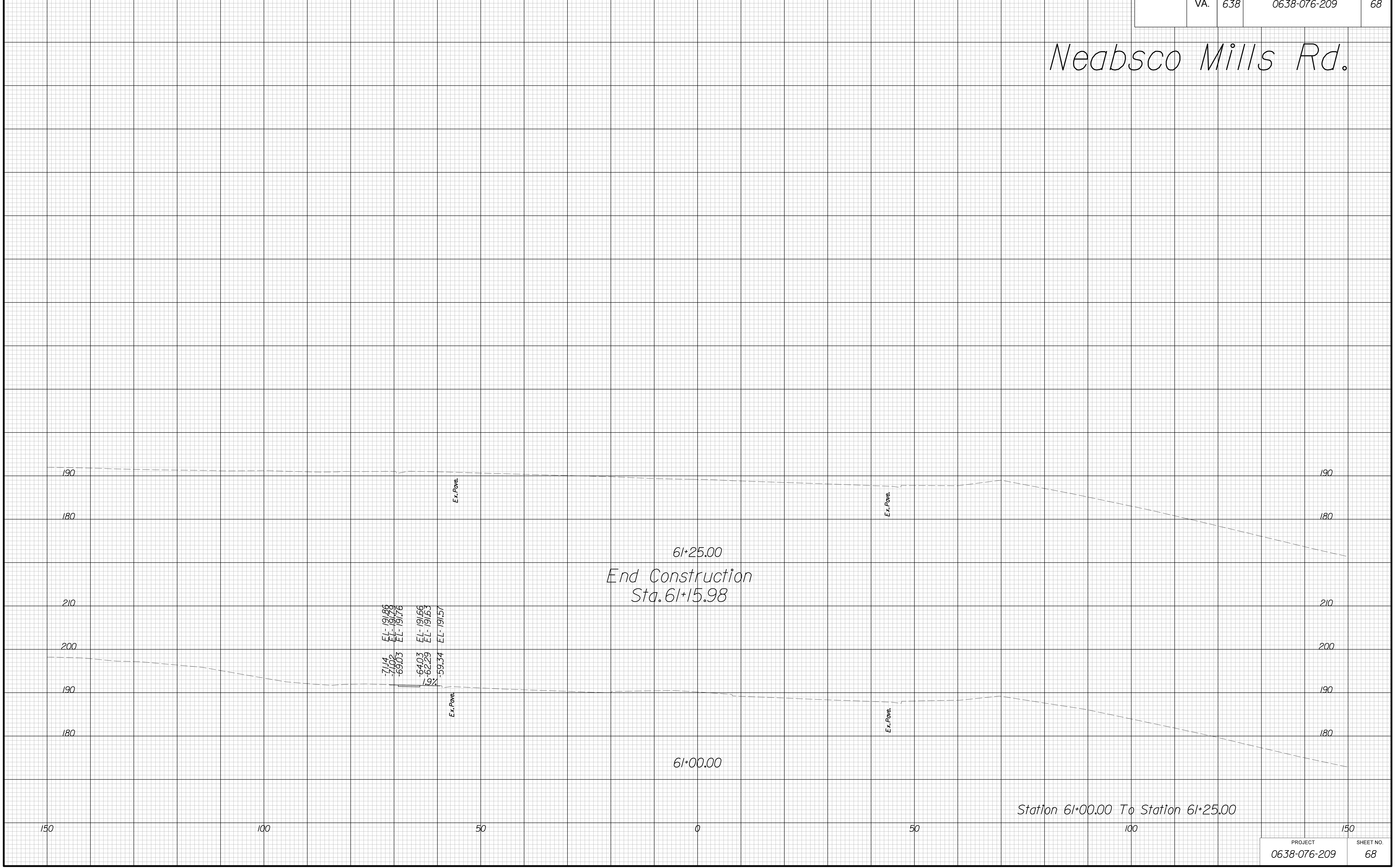
CROSS SECTIONS

SCALE 1 IN. = 10 FT

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

REVISED	STATE	ROUTE	STATE	PROJECT	SHEET NO.
	VA.	638		0638-076-209	68

Neabsco Mills Rd.



THESE PLANS ARE UNFINISHED AND UNAPPROVED AND ARE NOT TO BE USED FOR ANY TYPE OF CONSTRUCTION.

R/W PHASE PLANS

PROJECT MANAGER: EWCDOT:Khattab, Shamout, PE - (703) 792-7193
SURVEYED BY, DATE: BDA: Ryan, Dreello, LS - (703) 334-9302, July 3, 2017
DESIGN BY: BDA: Mack, A. Guro, PE - (703) 334-9288
SUBSURFACE UTILITY BY, DATE: Accurmark (703) 378-0100, August 1, 2017

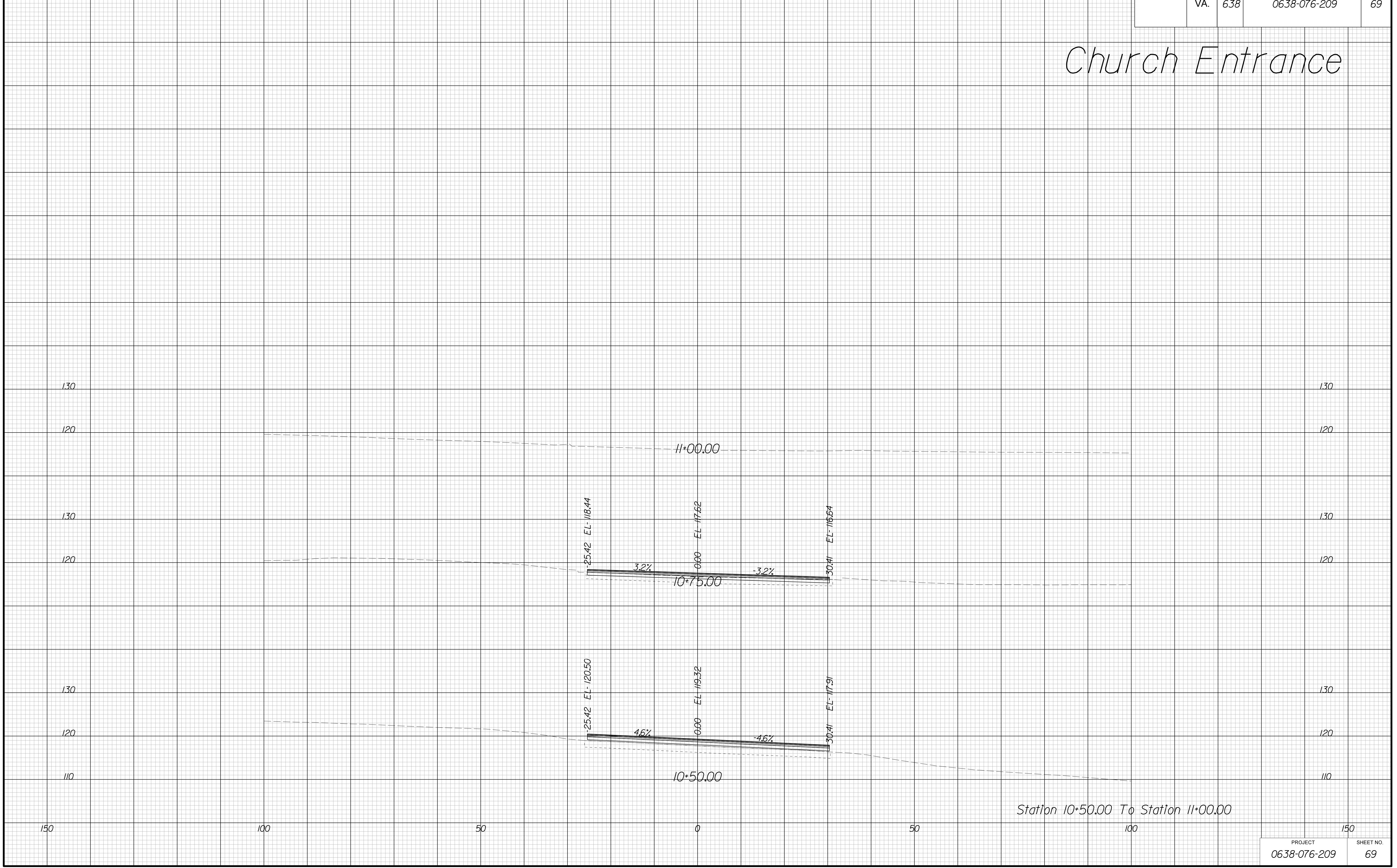
CROSS SECTIONS

SCALE 1 IN. = 10 FT

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

REVISED	STATE	ROUTE	STATE PROJECT	SHEET NO.
	VA.	638	0638-076-209	69

Church Entrance



Station 10+50.00 To Station 11+00.00

PROJECT	SHEET NO.
0638-076-209	69

THESE PLANS ARE UNFINISHED AND UNAPPROVED AND ARE NOT TO BE USED FOR ANY TYPE OF CONSTRUCTION.

R/W PHASE PLANS

PROJECT MANAGER: EWCDOT: Khattab, Shamout, PE - (703) 792-7193
SURVEYED BY, DATE: BDA: Ryan, Dreelto, LS - (703) 334-9302, July 3, 2017
DESIGN BY: BDA: Mack, A, Guro, PE - (703) 334-9288
SUBSURFACE UTILITY BY, DATE: Accurmark (703) 378-0100, August 1, 2017

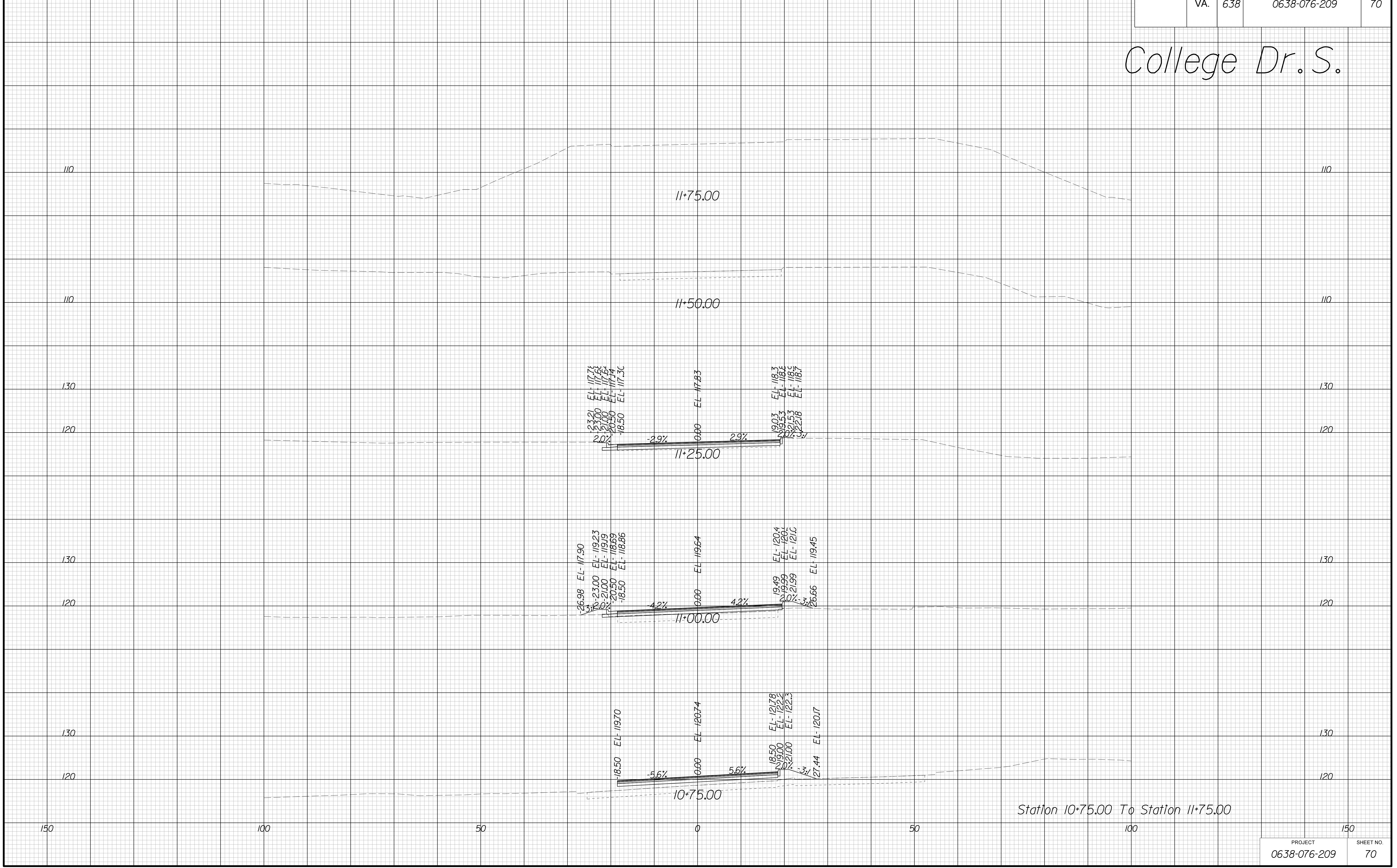
CROSS SECTIONS

SCALE 1 IN. = 10 FT

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

REVISED	STATE	ROUTE	STATE	PROJECT	SHEET NO.
	VA.	638		0638-076-209	70

College Dr. S.



THESE PLANS ARE UNFINISHED AND UNAPPROVED AND ARE NOT TO BE USED FOR ANY TYPE OF CONSTRUCTION.

R/W PHASE PLANS

PROJECT MANAGER: EWCDOT:Khattab, Shamout, PE - (703)792-7193
SURVEYED BY, DATE: BDA: Ryan, Dreello, LS - (703)334-9302, July 3, 2017
DESIGN BY: BDA: Mack, A, Guro, PE - (703)334-9288
SUBSURFACE UTILITY BY, DATE: Accurmark (703)378-0100, August 1, 2017

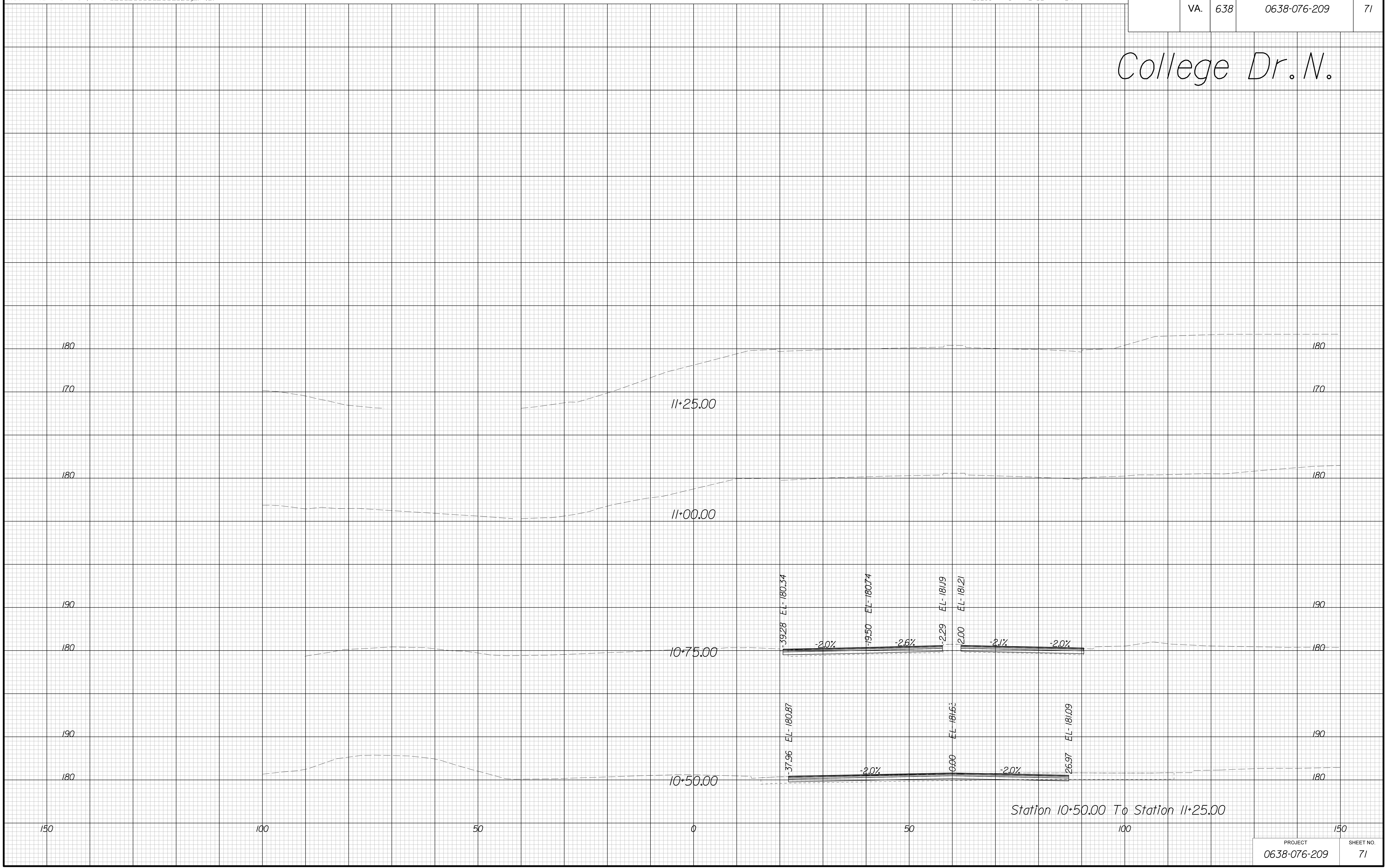
CROSS SECTIONS

SCALE 1 IN. = 10 FT

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

REVISED	STATE	ROUTE	STATE	PROJECT	SHEET NO.
	VA.	638		0638-076-209	71

College Dr. N.



Station 10+50.00 To Station 11+25.00

PROJECT	SHEET NO.
0638-076-209	71

THESE PLANS ARE UNFINISHED AND UNAPPROVED AND ARE NOT TO BE USED FOR ANY TYPE OF CONSTRUCTION.

R/W PHASE PLANS

PROJECT MANAGER: EWCDOT:Khattab, Shamout, PE - (703)792-7193
SURVEYED BY, DATE: BDA: Ryan, Dreello, LS - (703)334-9302, July 3, 2017
DESIGN BY: BDA: Mack, A, Guro, PE - (703)334-9288
SUBSURFACE UTILITY BY, DATE: Accurmark (703)378-0100, August 1, 2017

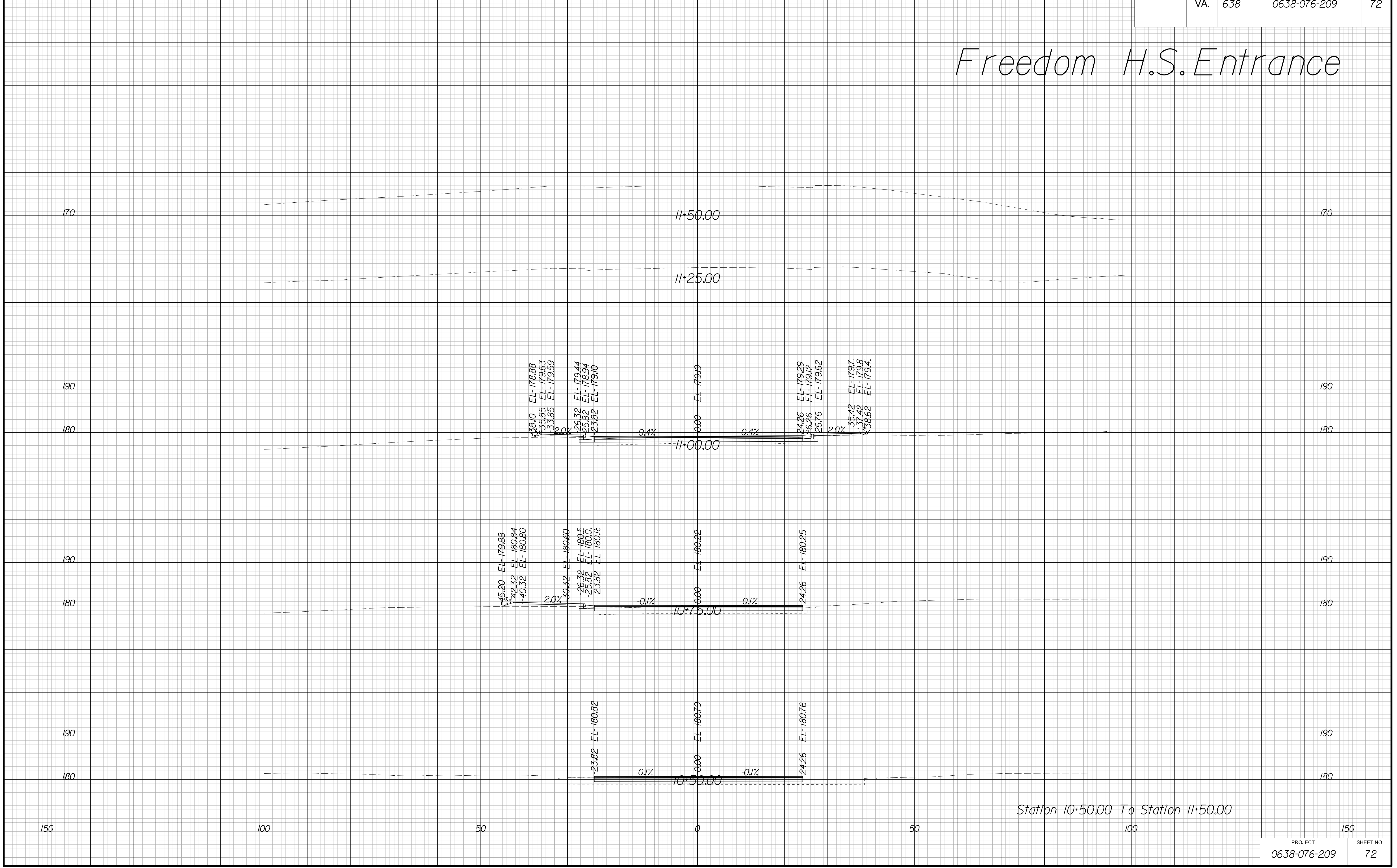
CROSS SECTIONS

SCALE 1 IN. = 10 FT

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

REVISED	STATE	ROUTE	STATE PROJECT	SHEET NO.
	VA.	638	0638-076-209	72

Freedom H.S. Entrance



Station 10+50.00 To Station 11+50.00

PROJECT	SHEET NO.
0638-076-209	72

THESE PLANS ARE UNFINISHED AND UNAPPROVED AND ARE NOT TO BE USED FOR ANY TYPE OF CONSTRUCTION.

R/W PHASE PLANS