Rinker Design Associates, P.C.
Civil Engineering - Surveying - Land Planning
Transportation - Environmental
Right of Way Services
Office Locations
4101 Dickerson Boulevard Suite 210 Manassas, VA 20110 Phone: (703) 334-9302 Fax: (703) 334-9288
4101 Dickerson Boulevard Suite 300 Manassas, VA 20110 Phone: (703) 792-7193 Fax: (703) 334-9288
4101 Dickerson Boulevard Suite 300 Manassas, VA 20110 Phone: (703) 378-0100 Fax: (703) 378-0117

PROJECT MANAGER Khattab Shammout, P.E. - PWC Dept. of Transportation (703) 792-7193
SURVEYED BY, DATE Ryan Dreelin L.S. Rinker Design Assoc. P.C. (703) 334-9302 September 2018
DESIGN BY Mark A. Quon P.E. Rinker Design Assoc. P.C. (703) 334-9288
SUBSURFACE UTILITY BY, DATE Accumark (703) 378-0100 November 2018

NOVA DISTRICT

FUNCTIONAL CLASSIFICATION AND TRAFFIC DATA MATRIX ✱							
Rte.	Road Name	Posted Speed	GS Sf'd.	Dir	K	Truck %	VDOT 2017 AADT
803	Doane Dr.	-	GS-8	-	-	-	400
802	Notes Dr.	25	GS-8	-	-	-	2,400
821	Old Compton Rd.	-	GS-8	0.67	0.112	-	500
821	Bethlehem Rd.	35	GS-7	0.67	0.112	4	2200
1600	Ashton Ave.	35	GS-7	0.521	0.096	1	11,000

✱ 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. (112813)

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)

COMMONWEALTH OF VIRGINIA

Prince William County Dept. of Transportation

PLAN AND PROFILE OF PROPOSED STATE HIGHWAY

PRINCE WILLIAM COUNTY LOCALLY ADMINISTERED PROJECT

BALLS FORD ROAD (RTE. 621) - WIDEN TO 4 LANES

From: Doane Dr. (Rte. 803)
To: Ashton Ave. (Rte. 1600)

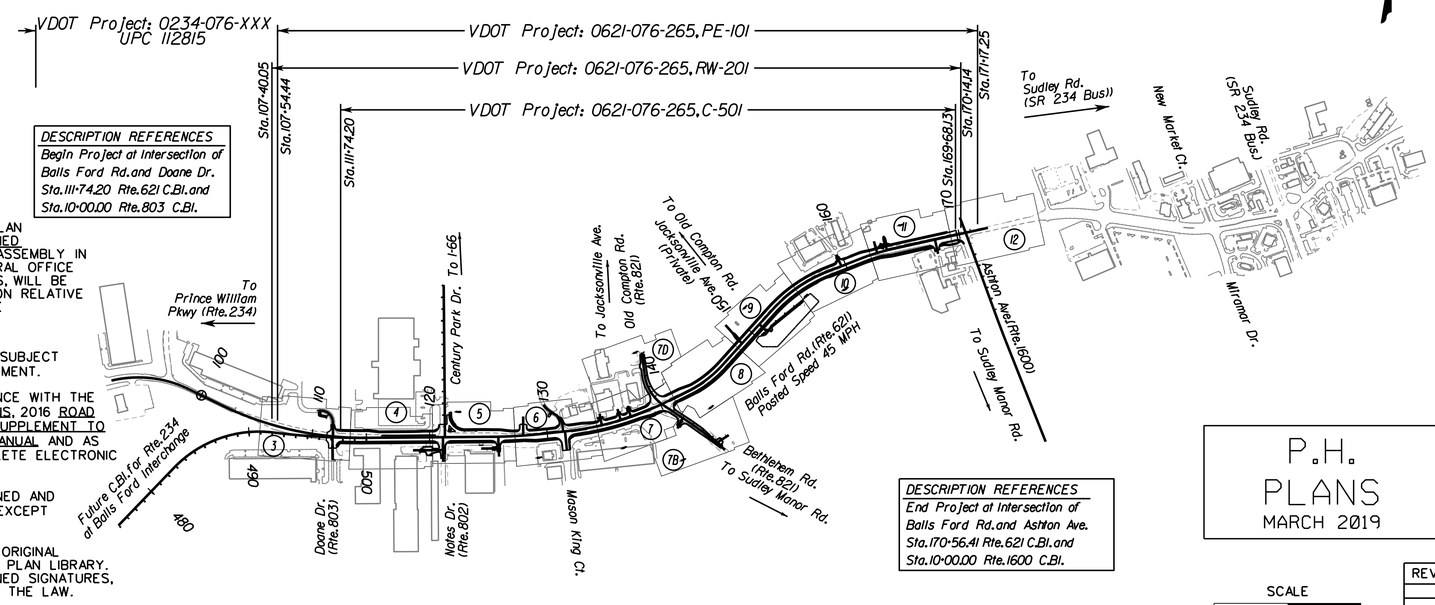
FHWA-534 DATA 44003

STATE	FEDERAL AID PROJECT	STATE ROUTE	STATE PROJECT	SHEET NO.
VA.	-	621	(NFO) 0621-076-265 (SEE TABULATION BELOW FOR SECTION NUMBERS)	1

✱ See Plan and Profile Sheets for horizontal and vertical curve design speed data.

FUNCTIONAL CLASSIFICATION AND TRAFFIC DATA	
NON NHS - URBAN MINOR ARTERIAL - ROLLING - DIVIDED - 45 MPH MIN. DESIGN SPEED	
For additional info. see Functional Classification and Traffic Data Matrix (This Sheet)	BALLS FORD ROAD, RTE. 621 (GS-6) Fr: DOANE DR. (RTE. 803) To: ASHTON AVE. (RTE. 1600)
AADT (2018)	17,500
AADT (2025)	20,125
AADT (2045)	24,600
DHV (2018)	1,400
D (%) (design hour)	52
T (%) (design hour)	14
V (MPH)	✱
DESIGN VEHICLE	AASHTO 2011 WB-67, S-BUS-40, SU-40, & P

NORTH



DESCRIPTION REFERENCES
Begin Project at Intersection of Balls Ford Rd. and Doane Dr. Sta. 111+74.20 Rte. 621 C.BI. and Sta. 10+00.00 Rte. 803 C.BI.

DESCRIPTION REFERENCES
End Project at Intersection of Balls Ford Rd. and Ashton Ave. Sta. 170+56.41 Rte. 621 C.BI. and Sta. 10+00.00 Rte. 1600 C.BI.

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.

P.H.
PLANS
MARCH 2019

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

CONVENTIONAL SIGNS

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

SCALE
0' 625' 1,250'

PRINCE WILLIAM COUNTY POPULATION 463,026 (Est. 2018 Census)

STATE PROJECT NO.	SECTION	FEDERAL AID PROJECT NO.	TYPE CODE	UPC NO.	LENGTH INCLUDING BRIDGE(S) FEET	LENGTH INCLUDING BRIDGE(S) MILES	LENGTH EXCLUDING BRIDGE(S) FEET	LENGTH EXCLUDING BRIDGE(S) MILES	TYPE PROJECT	DESCRIPTION
0621-076-265	PE-101	-	PENG	112813	6,362.81	1.205	6,362.81	1.205	Prelim. Eng.	Doane Dr. to Ashton Ave. Sta. 107+54.44 to 171+17.25
	C-501	-	1000	112813	5,793.93	1.097	5,793.93	1.097	Construction	Doane Dr. to Ashton Ave. Sta. 111+74.20 to 169+68.13
	RW-201	-	ROWA	112813	6,274.09	1.188	6,274.09	1.188	Right of Way	Doane Dr. to Ashton Ave. Sta. 107+40.05 to 170+14.14

Project Lengths are based on Rte. 621 Construction Baseline between Sta. 100+00.00 and Sta. 171+50.00

REVISED

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3/25/2019

VDOT PROJECT	SHEET NO.
0621-076-265	1

ADDITIONAL EASEMENTS FOR UTILITY RELOCATIONS MAY BE REQUIRED BEYOND THE PROPOSED RIGHT-OF-WAY SHOWN ON THESE PLANS

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

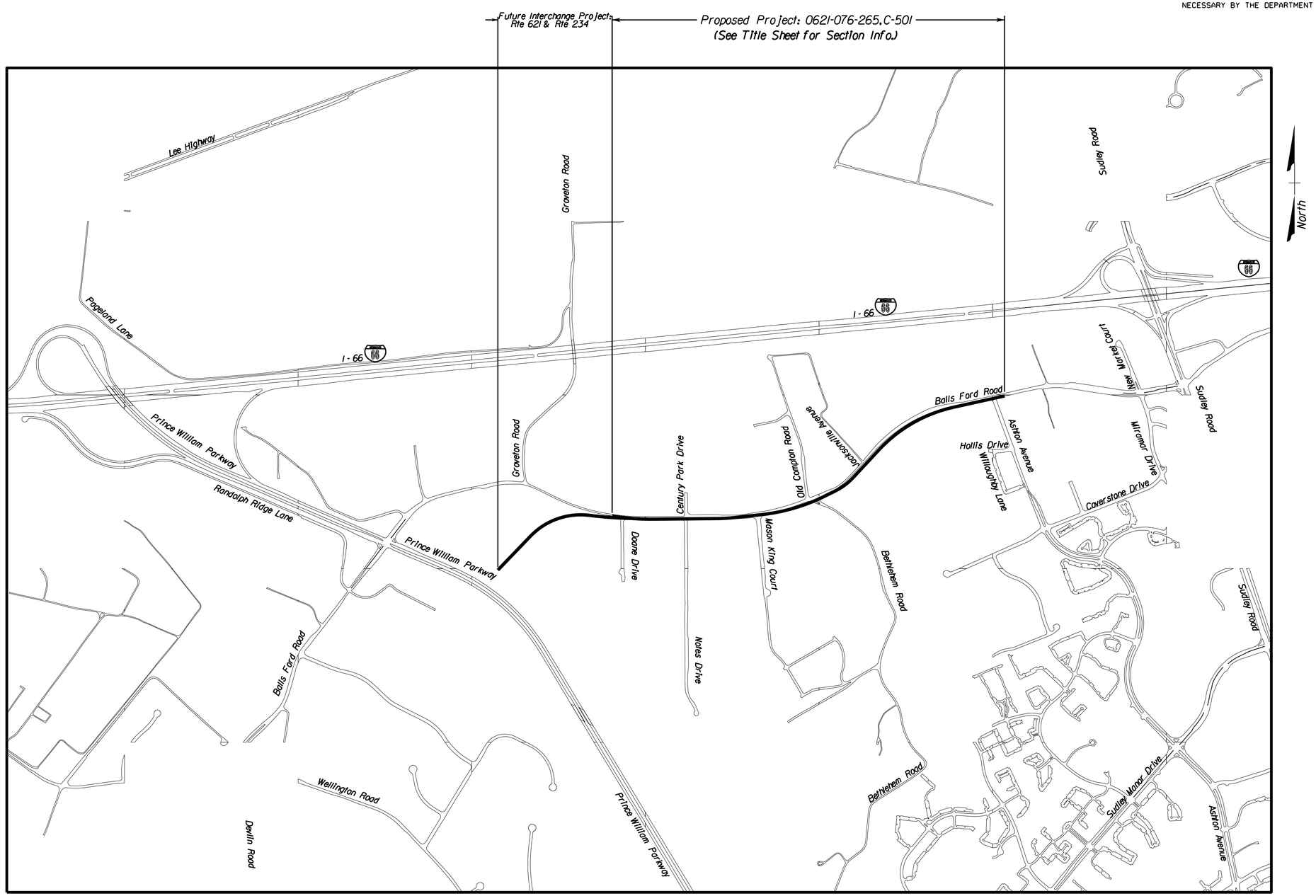
P.H. PLANS

PROJECT MANAGER PWCDOT: Khattab Shammout, P.E. (703) 792-7193
SURVEYED BY, DATE RDA: Ryan Dreella LS (703) 334-9302: September, 2018
DESIGN BY RDA: Mark A. Gunn, P.E. (703) 334-9288
SUBSURFACE UTILITY BY, DATE Accumark (703) 378-0100: November 2018

Project Location Map

REVISED	STATE	STATE ROUTE	STATE VDOT PROJECT NO.	SHEET NO.
	VA.	621	0621-076-265 PE101 C501 RW201	1A

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



BALLS FORD ROAD - WIDEN TO 4 LANES - PROJECT LOCATION MAP

Prince William County, Virginia Population 463,026 (Est. 2018 Census)
1" = 750' Scale

SCALE	VDOT PROJECT NO.	SHEET NO.
0 750 1,500	0621-076-265	1A

ADDITIONAL EASEMENTS FOR UTILITY RELOCATIONS MAY BE REQUIRED BEYOND THE PROPOSED RIGHT-OF-WAY SHOWN ON THESE PLANS

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P.H. PLANS

Rinker Design Associates, P.C.
Civil Engineering - Surveying - Land Planning
Transportation - Environmental
Right-of-Way Services
Office Locations
4651 Daisy Reserve Drive, Suite 100, Manassas, VA 20109, Phone: 703-257-5000, Fax: 703-257-5001
4651 Daisy Reserve Drive, Suite 100, Manassas, VA 20109, Phone: 703-257-5000, Fax: 703-257-5001
4651 Daisy Reserve Drive, Suite 100, Manassas, VA 20109, Phone: 703-257-5000, Fax: 703-257-5001
4651 Daisy Reserve Drive, Suite 100, Manassas, VA 20109, Phone: 703-257-5000, Fax: 703-257-5001
www.RDA-VA.com

PROJECT MANAGER PWCDOT: Khattab Shammout, P.E. (703) 792-7193
SURVEYED BY, DATE RDA: Ryan Dreella LS (703) 334-9302: September 2018
DESIGN BY RDA: Mark A. Gunn, P.E. (703) 334-9288
SUBSURFACE UTILITY BY, DATE Accumark (703) 378-0100: November 2018

Project Index of Sheets

REVISED	STATE	ROUTE	VDOT PROJECT NO.	SHEET NO.
	VA.	621	0621-076-265 PE101 C501 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 0621-076-265,PE101,RW201,C501		
**********		
Sheet No.	1	Title Sheet for Balls Ford Road Widening Project
Sheet No.	1A	Project Location Map
Sheet No.	1B	Project Index of Sheets
Sheet No.	1C	Preliminary Right of Way Data
Sheet No.	1C(1)	Demolition Summary
Sheet No.	1D	Revision Data Sheet
Sheet No.	1F	Survey Traverse Control
Sheet No.	1F(1)	Survey Control Cards
Sheet No.	1F(2)	Survey Storm Information
Sheet No.	1F(3)	Survey Utility Information
Sheet No.	1G-1G(2)	Geometric Data Information
Sheet No.	1H	Underground Utilities Test Hole Information
Sheet No.	1J	Temporary Traffic Control General Notes
Sheet No.	1J(1)	Temporary Traffic Control Plans Typical Sections
Sheet No.	1K-1K(4)	Temporary Traffic Control Plans Phase 1
Sheet No.	1L-1L(4)	Temporary Traffic Control Plans Phase 2
Sheet No.	1M-1M(4)	Temporary Traffic Control Plans Phase 3
Sheet No.	1N-1N(4)	Temporary Traffic Control Plans Phase 4
Sheet No.	1P	Erosion and Sediment Control Notes and Narrative
Sheet No.	1P(1)	Soil Identification Map
Sheet No.	1Q(3)-1Q(12)	Erosion and Sediment Control Phase 1
Sheet No.	1R(3)-1R(12)	Erosion and Sediment Control Phase 2
Sheet No.	2	General Notes
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.	2B	Typical Sections
Sheet No.	2B(1)	Typical Sections
Sheet No.	2B(2)	Typical Sections
Sheet No.	2K-2K(2)	Drainage Descriptions
Sheet No.	2L-2L(10)	Drainage Profiles
Sheet No.	2M	(Not Used)Reserved for SWM Details
Sheet No.	2N-2N(2)	Stormwater Pollution Prevention Plan (SWPPP) General Information Sheet
Sheet No.	3	Plan Sheet, Rte.621 (Sta.106+25 to 113+25)
Sheet No.	3A	Profile, Rte.621 (Sta.106+25 to 113+25)
Sheet No.	3B	Entrance Profiles (Sta.106+25 to 113+25)
Sheet No.	4	Plan Sheet, Rte.621 (Sta.113+25 to 120+25)
Sheet No.	4A	Profile, Rte.621 (Sta.113+25 to 120+25)
Sheet No.	5	Plan Sheet, Rte.621 (Sta.120+25 to 127+25)
Sheet No.	5A	Profile, Rte.621 (Sta.120+25 to 127+25)
Sheet No.	5B	Entrance Profiles (Sta.120+25 to 127+25)
Sheet No.	5C	Entrance Profiles (Sta.120+25 to 127+25)
Sheet No.	6	Plan Sheet, Rte.621 (Sta.127+25 to 134+25)
Sheet No.	6A	Profile, Rte.621 (Sta.127+25 to 134+25)
Sheet No.	6B	Entrance Profiles (Sta.127+25 to 134+25)
Sheet No.	7	Plan Sheet, Rte.621 (Sta.134+25 to 141+25)
Sheet No.	7A	Profile, Rte.621 (Sta.134+25 to 141+25)
Sheet No.	7B	Plan Sheet, Rte.821 (Sta.15+75 to 20+00)
Sheet No.	7C	Entrance Profiles (Sta.134+25 to 141+25)
Sheet No.	7D	Plan Sheet, Rte.821 (Sta.10+00 to 12+25)
Sheet No.	7E	Profile, Rte.821 (Sta.10+00 to 15+50)
Sheet No.	7F	Profile, Rte.821 (Sta.15+75 to 18+00)
Sheet No.	8	Plan Sheet, Rte.621 (Sta.141+25 to 148+25)
Sheet No.	8A	Profile, Rte.621 (Sta.141+25 to 148+25)
Sheet No.	9	Plan Sheet, Rte.621 (Sta.148+25 to 155+25)
Sheet No.	9A	Profile, Rte.621 (Sta.148+25 to 155+25)
Sheet No.	9B	Entrance Profiles (Sta.148+25 to 155+25)
Sheet No.	10	Plan Sheet, Rte.621 (Sta.155+25 to 162+25)
Sheet No.	10A	Profile, Rte.621 (Sta.155+25 to 162+25)
Sheet No.	10B	Entrance Profiles (Sta.155+25 to 162+25)
Sheet No.	11	Plan Sheet, Rte.621 (Sta.162+25 to 169+25)
Sheet No.	11A	Profile, Rte.621 (Sta.162+25 to 169+25)
Sheet No.	11B	Entrance Profiles (Sta.162+25 to 169+25)
Sheet No.	12	Plan Sheet, Rte.621 (Sta.169+25 to 171+50)
Sheet No.	12A	Profile, Rte.621 (Sta.169+25 to 171+50)
**********		

INDEX OF SHEETS CONTINUED ...

CROSS SECTIONS		
Sheet No.	1	Project Index of Cross Sections
Sheet No.	2 thru 81	Balls Ford Road
Sheet No.	100 thru 101	Notes Drive
Sheet No.	200 thru 213	Bethlehem Road/Old Compton Road
**********		
INDEX PLAN SET NOTES:		
122 Total plan and profile sheets in this set		
97 Total cross section sheets		

INDEX OF SHEETS CONTINUED ...

VDOT PROJECT NO.	SHEET NO.
0621-076-265	1B

ADDITIONAL EASEMENTS FOR UTILITY RELOCATIONS MAY BE REQUIRED BEYOND THE PROPOSED RIGHT-OF-WAY SHOWN ON THESE PLANS

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

P.H. PLANS

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

3/25/2019

PROJECT MANAGER PWCDOT: Khattab Shammout, P.E. (703) 792-7193
SURVEYED BY, DATE RDA: Ryan Dreella LS (703) 334-9302: September 2018
DESIGN BY RDA: Mark A. Gunn P.E. (703) 334-9288
SUBSURFACE UTILITY BY, DATE Accumark (703) 378-0100: November 2018

Preliminary Right of Way Data Sheet

NOTE: All data shown here is for information and estimating purposes only. VDOT Proj. 0621-076-265, RW-201 is a locally administered project by PWC and Final Acquisition Plats are required and shall be provided by a professional surveyor.

REVISED	STATE	ROUTE	VDOT PROJECT NO.	SHEET NO.
	VA.	621	0621-076-265 PE101 C501 RW201	IC

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.: 112813

PROJECT ASSIGNED PARCEL NO.	LANDOWNER	PLAN SHEET NO.	AREA																PROFFERS YES / NO	REMARK/ PWC GPIN NO.
			TOTAL	FEE TAKING	PRESCRIPTIVE R/W	FEE REMAINDER	EASEMENT													
							DRAINAGE	SWM Pond	-	-	-	-	-	-	-	TEMPORARY CONSTRUCTION				
			ACRES	SQ.FT.	SQ.FT.	ACRES	SQ.FT.	SQ.FT.	SQ.FT.	SQ.FT.	SQ.FT.	SQ.FT.	SQ.FT.	SQ.FT.	SQ.FT.	MISC. SQ.FT.	ENTRANCE SQ.FT.	SLOPES SQ.FT.		
001	Manassas-Premier, LLC	3	11.6236 Ac.	58,886	-	10.2718 Ac.	4,265	-	-	-	-	-	-	-	-	-	-	-	NO	7597-33-9464
002	McLane Foodservice Inc	3,4,5	24.7680 Ac.	2,804	-	24.7036 Ac.	3,247	-	-	-	-	-	-	-	-	-	-	11,165	NO	7597-53-0186
003	Three Headed Lion LLC	3,4	6.8324 Ac.	241	-	6.8269 Ac.	2,514	-	-	-	-	-	-	-	-	-	-	1,468	NO	7597-42-9183
004	Beagle Land Company, LLC	4,5	14.6923 Ac.	-	-	14.6923 Ac.	-	-	-	-	-	-	-	-	-	-	11,314	6,199	NO	7597-52-3402
005	PWC Board of Supervisors	5,6	9.8626 Ac.	17,951	-	9.4505 Ac.	9,098	21,122	2,343	-	-	-	-	-	-	-	1,731	506	NO	7597-63-0358
006	Reinhart Foodservice LLC	5	5.7565 Ac.	1,190	-	5.7292 Ac.	-	-	-	-	-	-	-	-	-	-	1,076	8,303	NO	7597-52-7888
007	Breedlove Investments LLC	5,6	5.4026 Ac.	461	-	5.3920 Ac.	2,138	-	-	-	-	-	-	-	-	-	-	1,061	NO	7597-63-2701
008	Ellis Warehouse & Mini Storage Manassas LLC	6	4.0199 Ac.	26,853	-	3.4034 Ac.	3,146		-	-	-	-	-	-	-	-	488	1,719	NO	7597-63-6550
009	Ballsford Industrial Center LLC	6,7	7.6633 Ac.	362	-	7.6550 Ac.	1,103	-	-	-	-	-	-	-	-	-	-	8,602	NO	7597-73-0313
010	L & W Supply Corp, C/O Macmunnis Inc	7,7D	1.7948 Ac.	1,538	-	1.7595 Ac.	-	-	-	-	-	-	-	-	-	-	1,829	3,072	NO	7597-73-0055
011	J R Manassas LLC	7,7D	1.6198 Ac.	2,121	-	1.5711 Ac.	-	-	-	-	-	-	-	-	-	-	1,478	5,010	NO	7597-73-1868
012	Old Compton LLC	7,7D,8	1.8394 Ac.	8,593	-	1.6421 Ac.	1,364	-	-	-	-	-	-	-	-	-	-	9,761	POTENTIAL	7597-73-4192
013	Gomez & Fuentes LLC	7,7B	1.1678 Ac.	1,524	-	1.1328 Ac.	819	-	-	-	-	-	-	-	-	-	2,349	607	POTENTIAL	7597-73-4634
014	Old Compton LLC	7D,8	0.4845 Ac.	-	-	0.4845 Ac.	-	-	-	-	-	-	-	-	-	-	-	991	POTENTIAL	7597-73-4881
015	Old Compton LLC	8	1.7292 Ac.	2,199	-	1.6787 Ac.	-	-	626	-	-	-	-	-	-	-	-	7,800	POTENTIAL	7597-73-6289
016	Old Compton LLC	8	1.5735 Ac.	8,806	-	1.3713 Ac.	1,770	-	160	-	-	-	-	-	-	-	-	3,296	POTENTIAL	7597-73-7989
017	11402 Balls Ford LLC	8,9	1.8953 Ac.	4,679	-	1.7879 Ac.	3,211	-	-	-	-	-	-	-	-	-	-	2,744	NO	7597-74-9012
018	Southern Region Industrial Reality Inc.	7B,8	5.3379 Ac.	12,250	-	5.0567 Ac.	11,761	-	-	-	-	-	-	-	-	-	-	19,413	POTENTIAL	7597-72-7890
019	Northern Virginia Electric Coop	7B,8,9	0.0000 Ac.	-	-	0.0000 Ac.	2,139	-	-	-	-	-	-	-	-	-	1,401	1,484	NO	7597-83-1724
020	Ballsford L P	9,10	40.6770 Ac.	7,830	-	40.4972 Ac.	11,748	-	-	-	-	-	-	-	-	-	-	26,859	YES	7597-85-1301
021	RCKF Bull Run Commercial LLC	8,9,10,11	63.9598 Ac.	24,421	-	63.3992 Ac.	5,523	105,283	-	-	-	-	-	-	-	-	-	27,868	YES	7597-93-0165
022	Westview One, L.C.	10	2.4773 Ac.	57	-	2.4760 Ac.	1,900	-	-	-	-	-	-	-	-	-	700	404	YES	7597-84-7189
023	Westview 66 Hospitality, Inc	10	2.0096 Ac.	-	-	2.0096 Ac.	1,681	-	-	-	-	-	-	-	-	-	579	-	NO	7597-84-9098
024	Yun Hong Park	10,11	3.7859 Ac.	165	-	3.7821 Ac.	-	-	-	-	-	-	-	-	-	-	652	2,033	NO	7597-95-0425
025	Balls Ford Business Park LLC, C/O Arun Sareen	11	5.8704 Ac.	350	-	5.8624 Ac.	-	-	-	-	-	-	-	-	-	-	54	345	NO	7597-85-9877
026	Balls Ford Business Park LLC	11	1.9007 Ac.	3,894	-	1.8113 Ac.	-	-	-	-	-	-	-	-	-	-	1,324	4,333	NO	7597-95-3606
027	Marion Caesar Wheeler Estate	11,12	28.3543 Ac.	-	-	28.3543 Ac.	-	-	-	-	-	-	-	-	-	-	-	5,992	POTENTIAL	7597-95-8953
028	The Salvation Army	11	6.0630 Ac.	2,911	-	5.9962 Ac.	-	-	-	-	-	-	-	-	-	-	718	3,716	NO	7597-94-8644
029	SEJ Asset Management & Investment Co	11,12	1.3044 Ac.	2,306	-	1.2515 Ac.	-	-	-	-	-	-	-	-	-	-	269	3,347	NO	7597-94-9277
030	Southern Region Industrial Rlty Inc, C/O Taxation Dept	7B	10.0210 Ac.	1,824	-	9.9791 Ac.	1,459	-	-	-	-	-	-	-	-	-	-	2,862	POTENTIAL	7597-72-7890
031	Old Compton LLC	7A	1.8394 Ac.	-	-	1.8394 Ac.	-	-	-	-	-	-	-	-	-	-	-	706	POTENTIAL	7597-73-4192
032	High Family Reality Limited Ptnshp	7A	3.0000 Ac.	321	-	2.9926 Ac.	-	-	-	-	-	-	-	-	-	-	-	1,403	NO	7597-73-0292
TOTAL	PROJECT TOTALS			194,536	-		68,885	126,405	3,129	-	-	-	-	-	-	-	25,962	173,069		

VDOT PROJECT NO.	SHEET NO.
0621-076-265	IC

ADDITIONAL EASEMENTS FOR UTILITY RELOCATIONS MAY BE REQUIRED BEYOND THE PROPOSED RIGHT-OF-WAY SHOWN ON THESE PLANS

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

P.H. PLANS

Rinker Design Associates, P.C.
Civil Engineering - Surveying - Land Planning
Transportation - Environmental
Right of Way Services
Office Locations
Fairfax, VA 22030
Phone: (703) 591-2626
Fax: (703) 591-2627
Richmond, VA 23230
Phone: (804) 285-8670
Fax: (804) 285-8671
Roanoke, VA 24018
Phone: (540) 772-4928
Fax: (540) 772-4929
Virginia Beach, VA 23462
Phone: (757) 490-9283
Fax: (757) 490-9287
GDA Rinker

NOVA DISTRICT

3/25/2019

Office Locations
Rinker Design Associates, P.C.
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www.RDAinc.com
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Suite 100
Glen Allen, VA 23060
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Fax: (804) 270-9004
Northern Virginia Office
8229 Discovery Boulevard
Suite 100
Manassas, VA 20109
Phone: (703) 330-9000
Fax: (703) 330-9001

NOVA DISTRICT

3/25/2019

PROJECT MANAGER PWCDOT: Khattab Shammout, P.E. (703) 792-7193
SURVEYED BY, DATE RDA: Ryan Dreella LS (703) 334-9302: September 2018
DESIGN BY RDA: Mark A. Gunn P.E. (703) 334-9288
SUBSURFACE UTILITY BY, DATE Accumark (703) 378-0100: November 2018

REVISED	STATE	STATE ROUTE	STATE VDOT PROJECT NO.	SHEET NO.
	VA.	621	0621-076-265 PE101 C501 RW201	IC(1)

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

Demolition Summary

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

SHEET NUMBER	PARCEL NUMBER	DEMOLITION NUMBER	LANDOWNER	STATION Rt. OR Lt.	DESCRIPTION
4	002	D900	MCLANE FOODSERVICE, INC.	114+55.26 LT.	Light Pole
4	002	D901	MCLANE FOODSERVICE, INC.	116+07 LT.	Light Pole
4	002	D902	MCLANE FOODSERVICE, INC.	117+55 LT.	Light Pole
4	002	D903	MCLANE FOODSERVICE, INC.	119+05 LT.	Light Pole
11	028	D904	THE SALVATION ARMY	166+41 RT.	Sign Lighting
11	028	D700	THE SALVATION ARMY	166+50 RT.	Salvation Army Sign
11	028	D905	THE SALVATION ARMY	166+57 RT.	Sign Lighting
11	028	D906	THE SALVATION ARMY	167+66 RT.	Light Pole
11	029	D907	SEJ ASSET MANAGEMENT & INVESTMENT COMPANY	168+48 RT.	Light Pole

	VDOT PROJECT NO.	SHEET NO.
	0621-076-265	IC(1)

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P.H. PLANS

PROJECT MANAGER PWCDOT: Khattab Shammout, P.E. (703) 792-7193
SURVEYED BY, DATE RDA: Ryan Dreella LS (703) 334-9302: September 2018
DESIGN BY RDA: Mark A. Gunn P.E. (703) 334-9288
SUBSURFACE UTILITY BY, DATE Accumark (703) 378-0100: November 2018

Revision Data Sheet

REVISED	STATE	STATE ROUTE	STATE VDOT PROJECT NO.	SHEET NO.
	VA.	621	0621-076-265 PE101 C501 RW201	ID

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

State Project: 0621-076-265, PE-101, RW-201, C-501
Federal Aid Project: N/A
From: Doane Drive
To: Ashton Avenue
UPC Number: 112813

VDOT PROJECT NO.	SHEET NO.
0621-076-265	ID

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8229 Boone Boulevard, Suite 750, Vienna, VA 22182, Phone: 703-734-0293, Fax: 703-734-0294
8229 Boone Boulevard, Suite 750, Vienna, VA 22182, Phone: 703-734-0293, Fax: 703-734-0294
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NOVA DISTRICT

PROJECT MANAGER PWCDOT: Khattab Shammout, P.E. (703) 792-7193
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DESIGN BY RDA: Mark A. Gunn P.E. (703) 334-9288
SUBSURFACE UTILITY BY, DATE Accumark (703) 378-0100: November 2018

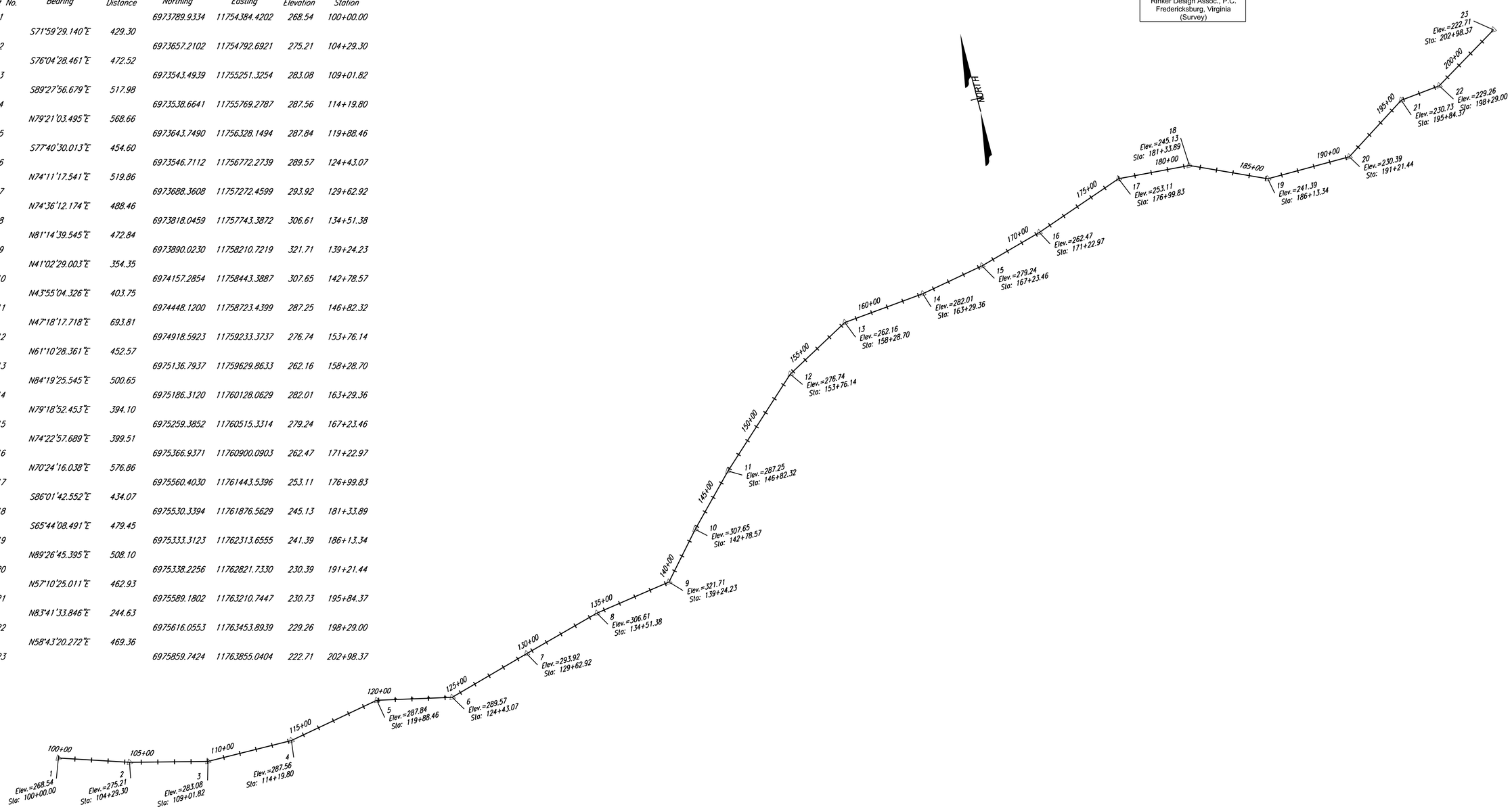
Survey Traverse Control

REVISED	STATE	ROUTE	STATE VDOT PROJECT NO.	SHEET NO.
	VA.	621	0621-076-265 PE101 C501 RW201	IF

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
(Survey)

Point No.	Bearing	Distance	Northing	Easting	Elevation	Station
1			6973789.9334	11754384.4202	268.54	100+00.00
	S71°59'29.140"E	429.30				
2			6973657.2102	11754792.6921	275.21	104+29.30
	S76°04'28.461"E	472.52				
3			6973543.4939	11755251.3254	283.08	109+01.82
	S89°27'56.679"E	517.98				
4			6973538.6641	11755769.2787	287.56	114+19.80
	N79°21'03.495"E	568.66				
5			6973643.7490	11756328.1494	287.84	119+88.46
	S77°40'30.013"E	454.60				
6			6973546.7112	11756772.2739	289.57	124+43.07
	N74°11'17.541"E	519.86				
7			6973688.3608	11757272.4599	293.92	129+62.92
	N74°36'12.174"E	488.46				
8			6973818.0459	11757743.3872	306.61	134+51.38
	N81°14'39.545"E	472.84				
9			6973890.0230	11758210.7219	321.71	139+24.23
	N41°02'29.003"E	354.35				
10			6974157.2854	11758443.3887	307.65	142+78.57
	N43°55'04.326"E	403.75				
11			6974448.1200	11758723.4399	287.25	146+82.32
	N47°18'17.718"E	693.81				
12			6974918.5923	11759233.3737	276.74	153+76.14
	N61°10'28.361"E	452.57				
13			6975136.7937	11759629.8633	262.16	158+28.70
	N84°19'25.545"E	500.65				
14			6975186.3120	11760128.0629	282.01	163+29.36
	N79°18'52.453"E	394.10				
15			6975259.3852	11760515.3314	279.24	167+23.46
	N74°22'57.689"E	399.51				
16			6975366.9371	11760900.0903	262.47	171+22.97
	N70°24'16.038"E	576.86				
17			6975560.4030	11761443.5396	253.11	176+99.83
	S86°01'42.552"E	434.07				
18			6975530.3394	11761876.5629	245.13	181+33.89
	S65°44'08.491"E	479.45				
19			6975333.3123	11762313.6555	241.39	186+13.34
	N89°26'45.395"E	508.10				
20			6975338.2256	11762821.7330	230.39	191+21.44
	N57°10'25.011"E	462.93				
21			6975589.1802	11763210.7447	230.73	195+84.37
	N83°41'33.846"E	244.63				
22			6975616.0553	11763453.8939	229.26	198+29.00
	N58°43'20.272"E	469.36				
23			6975859.7424	11763855.0404	222.71	202+98.37



SCALE	VDOT PROJECT NO.	SHEET NO.
0 300' 600'	0621-076-265	IF

ADDITIONAL EASEMENTS FOR UTILITY RELOCATIONS MAY BE REQUIRED BEYOND THE PROPOSED RIGHT-OF-WAY SHOWN ON THESE PLANS

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P.H. PLANS

Rinker Design Associates, P.C.
Civil Engineering - Surveying - Land Planning
Transportation - Environmental
Right of Way Services
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PROJECT MANAGER PWCDOT: Khattab Shammout, P.E. (703) 792-7193
SURVEYED BY, DATE RDA: Ryan Dreella LS (703) 334-9302: September 2018
DESIGN BY RDA: Mark A. Gunn, P.E. (703) 334-9288
SUBSURFACE UTILITY BY, DATE Accumark (703) 378-0100: November 2018

Survey Control Cards

REVISED	STATE	ROUTE	STATE VDOT PROJECT NO.	SHEET NO.
	VA.	621	0621-076-265 PE101 C501 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
(Survey)

LD-200 (REV. 10/2014)

Virginia Department of Transportation Horizontal Control

Control Station I.D. : 1 Date : 6-20-18

VDOT Project Coordinates (2014)
East (X) : 11,754,384.420 ft.
North (Y) : 6,973,789.9334 ft.
Elevation : 268.54 ft.

VA State Plane Coordinates : NAD 83- U.S. Survey Feet
East (X) : 11,753,753.655 ft.
North (Y) : 6,973,415.705 ft.
Ortho. Elevation (H) : 268.54 ft.
Zone : North X South__ (place an 'X' beside one)

Project Specific Combined Scale Factor: 1.000053665 (9 Decimal Places)

Latitude : 38° 47' 36.47907" N (5 Decimal Places)
Longitude : 77° 32' 59.05390" W (5 Decimal Places)
Geoid Separation (N) : -105.05 ft.
Ellipsoid Height (h) : 163.49 ft.
Horizontal Datum : NAD 83 (2011) Year : 2018
Vertical Datum : NAVD 1988 Geoid : 2012B
Azimuth to Station : 23 Is 77° 40' 19"
Control Based On: Station (Name/PID) DF9217, DH8807, DG4548, and DG4554

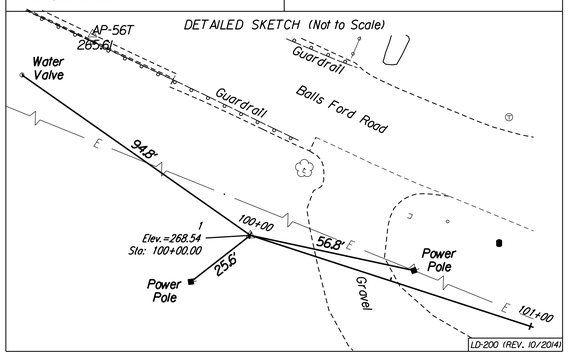
Project Information
Project Number : 0621-076-265
Route : 621 City/County : Prince William
Established By : Rinker Design Associates, P.C.

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

DETAILED SKETCH (Not to Scale)



LD-200 (REV. 10/2014)

LD-200 (REV. 10/2014)

Virginia Department of Transportation Horizontal Control

Control Station I.D. : 2 Date : 6-20-18

VDOT Project Coordinates (2014)
East (X) : 11,754,792.692 ft.
North (Y) : 6,973,657.210 ft.
Elevation : 275.21 ft.

VA State Plane Coordinates : NAD 83- U.S. Survey Feet
East (X) : 11,754,161.905 ft.
North (Y) : 6,973,282.989 ft.
Ortho. Elevation (H) : 275.21 ft.
Zone : North X South__ (place an 'X' beside one)

Project Specific Combined Scale Factor: 1.000053665 (9 Decimal Places)

Latitude : 38° 47' 35.12545" N (5 Decimal Places)
Longitude : 77° 32' 53.91150" W (5 Decimal Places)
Geoid Separation (N) : -105.05 ft.
Ellipsoid Height (h) : 170.16 ft.
Horizontal Datum : NAD 83 (2011) Year : 2018
Vertical Datum : NAVD 1988 Geoid : 2012B
Azimuth to Station : 23 Is 76° 20' 22"
Control Based On: Station (Name/PID) DF9217, DH8807, DG4548, and DG4554

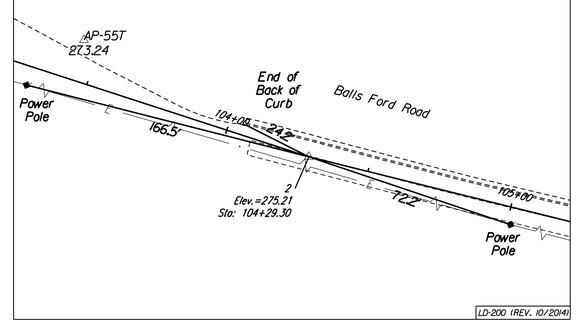
Project Information
Project Number : 0621-076-265
Route : 621 City/County : Prince William
Established By : Rinker Design Associates, P.C.

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

DETAILED SKETCH (Not to Scale)



LD-200 (REV. 10/2014)

LD-200 (REV. 10/2014)

Virginia Department of Transportation Horizontal Control

Control Station I.D. : 22 Date : 6-20-18

VDOT Project Coordinates (2014)
East (X) : 11,763,453.894 ft.
North (Y) : 6,975,616.055 ft.
Elevation : 229.26 ft.

VA State Plane Coordinates : NAD 83- U.S. Survey Feet
East (X) : 11,762,822.642 ft.
North (Y) : 6,975,241.729 ft.
Ortho. Elevation (H) : 229.26 ft.
Zone : North X South__ (place an 'X' beside one)

Project Specific Combined Scale Factor: 1.000053665 (9 Decimal Places)

Latitude : 38° 47' 53.58459" N (5 Decimal Places)
Longitude : 77° 31' 04.26521" W (5 Decimal Places)
Geoid Separation (N) : -105.02 ft.
Ellipsoid Height (h) : 124.24 ft.
Horizontal Datum : NAD 83 (2011) Year : 2018
Vertical Datum : NAVD 1988 Geoid : 2012B
Azimuth to Station : 1 Is 258° 36' 57"
Control Based On: Station (Name/PID) DF9217, DH8807, DG4548, and DG4554

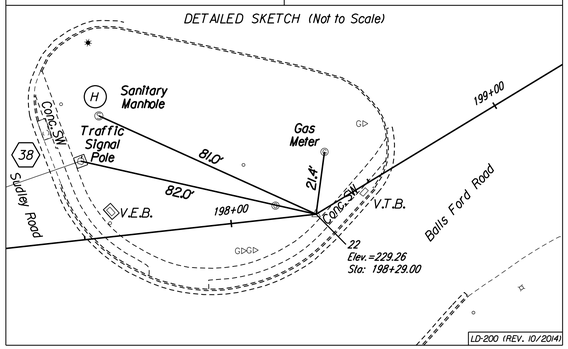
Project Information
Project Number : 0621-076-265
Route : 621 City/County : Prince William
Established By : Rinker Design Associates, P.C.

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

DETAILED SKETCH (Not to Scale)



LD-200 (REV. 10/2014)

LD-200 (REV. 10/2014)

Virginia Department of Transportation Horizontal Control

Control Station I.D. : 23 Date : 6-20-18

VDOT Project Coordinates (2014)
East (X) : 11,763,855.040 ft.
North (Y) : 6,975,859.742 ft.
Elevation : 222.71 ft.

VA State Plane Coordinates : NAD 83- U.S. Survey Feet
East (X) : 11,763,223.767 ft.
North (Y) : 6,975,485.403 ft.
Ortho. Elevation (H) : 222.71 ft.
Zone : North X South__ (place an 'X' beside one)

Project Specific Combined Scale Factor: 1.000053665 (9 Decimal Places)

Latitude : 38° 47' 55.95065" N (5 Decimal Places)
Longitude : 77° 30' 59.16566" W (5 Decimal Places)
Geoid Separation (N) : -105.00 ft.
Ellipsoid Height (h) : 117.71 ft.
Horizontal Datum : NAD 83 (2011) Year : 2018
Vertical Datum : NAVD 1988 Geoid : 2012B
Azimuth to Station : 1 Is 257° 40' 19"
Control Based On: Station (Name/PID) DF9217, DH8807, DG4548, and DG4554

Project Information
Project Number : 0621-076-265
Route : 621 City/County : Prince William
Established By : Rinker Design Associates, P.C.

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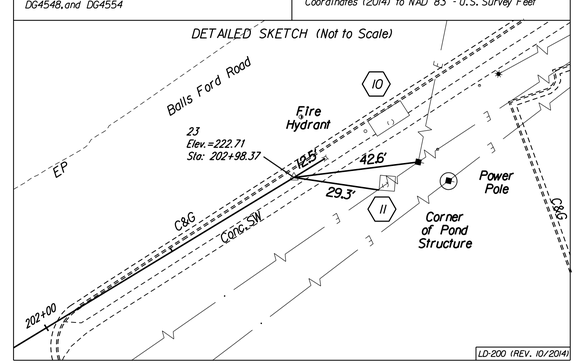
DETAILED SKETCH (Not to Scale)



LD-200 (REV. 10/2014)

VDOT PROJECT NO.	SHEET NO.
0621-076-265	IF(1)

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Phone: (757) 490-9282 Fax: (757) 490-9283
Phone: (804) 673-1900 Fax: (804) 673-1901
www.RDA-PC.com

3/25/2019

PROJECT MANAGER PWCDOT: Khattab Shammout, P.E. (703) 792-7193
SURVEYED BY, DATE RDA: Ryan Dreella LS (703) 334-9302: September 2018
DESIGN BY RDA: Mark A. Gunn, P.E. (703) 334-9288
SUBSURFACE UTILITY BY, DATE Accumark (703) 378-0100: November 2018

Survey Storm Information

REVISED	STATE	STATE ROUTE	STATE VDOT PROJECT NO.	SHEET NO.
	VA.	621	0621-076-265 PE101 C501 RW201	IF(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
(Survey)

1. End Section Inv.=212.79
2. Storm MH Top=219.70 Inv.In=216.05 (From-3) Inv.In=216.55 (From-4) Inv.In=214.45 (From-5) Inv.Out=214.35
3. Storm Inlet Top=219.23 Inv.Out=215.53
4. Storm Inlet Top=222.51 Inv.Out=217.31
5. Storm MH Top=222.55 Inv.In=217.86 (From-6) Inv.In=218.48 (From-9) Inv.Out=217.13
6. Storm MH Top=223.84 Inv.In=220.48 (From-8) Inv.In=221.34 (From-7) Inv.Out=219.81
7. Storm MH Top=223.96 Inv.Out=221.36
8. Storm MH Top=224.58 Inv.In=221.38 Inv.Out=221.28
9. Storm Inlet Top=222.61 Inv.In=218.86 (From-10) Inv.In=218.56 (From-12) Inv.Out=218.06
10. Storm Inlet Top=222.69 C/L Floor=219.94 Inv.In=219.99 Inv.Out=219.79
11. Pond Structure Top=223.66 Inv.In=219.91 (4-0.2'x0.3' Weep Holes) Inv.In=222.66 (Throat) Inv.Out=220.05
12. Storm Structure Top=225.80 Top Wier=223.45 Bttm.Wier=221.58 Inv.In=220.44 (From-13) Inv.In=219.50 (From-14) 8" Weep Hole Inv.=219.50 (From-14) Inv.Out=219.31
13. Underground Detention Top=227.71 C/L Floor Elev.=220.44
14. Storm Inlet Top=223.17 Inv.Out=220.67
15. Storm Pipe Inv.=216.37
16. Storm Inlet Top=225.73 Inv.In=219.61 (From-17) Inv.In=218.29 (From-19) Inv.Out=218.09
17. Storm Inlet Top=225.98 Inv.In=220.98 Inv.Out=220.88
18. Storm Inlet Top=226.62 Inv.Out=221.67
19. Storm MH Top=223.64 Inv.In=218.64 Inv.Out=218.49
20. Storm Inlet Top=222.60 C/L Floor Elev.=219.55
21. Yard Inlet Top=223.00 Inv.In=219.85 (4") Inv.In=222.00 (0.70'x4' Throat) Inv.Out=219.44
22. Underground Detention Top=225.76 Top of Wier=223.16 Inv.=220.26 (5"x8" Opening) Inv.In=220.26 (From-18") Inv.In=220.06 (From-48") Inv.Out=220.06
23. Storm Inlet Top=225.56 Inv.Out=223.06
24. Storm Pipe Inv.=216.14
25. Wingwall Inv.Out=215.98 (a) Inv.Out=215.84 (b) Inv.Out=215.85 (c)
26a. Storm MH-a Top=226.81 C/L Floor Elev.=218.51
26b. Storm MH-b Top=226.73 C/L Floor Elev.=218.38
26c. Storm MH-c Top=226.89 C/L Floor Elev.=218.65
27. Storm MH Top=230.20 C/L Floor Elev.=221.84
28. Storm MH Top=231.34 C/L Floor Elev.=221.74
29. Storm MH Top=233.22 C/L Floor Elev.=222.00
30. Storm MH Top=233.35 C/L Floor Elev.=222.10
31. Wet Pond Top=235.77 Inv.Out=223.27
32. Storm Grate Top=229.28 Inv.In=222.63 (From-41) Inv.In=220.98 (From-43) Inv.Out=220.48
33. Storm Grate Top=224.32 Inv.In=220.72 (From-34) Inv.In=220.82 (From-40) Inv.Out=220.62
34. Storm MH Top=226.98 Inv.In=221.14 Inv.Out=220.98
35. Storm MH Top=229.44 Inv.In=222.79 (From-36) Inv.In=222.79 (From-38) Inv.In=226.41 (From-39) Inv.Out=222.24
36. Storm Grate Top=228.38 Inv.=Full Of Debris.
37. Storm Inlet Top=228.37 Inv.Out=225.47
38. Storm Inlet Top=228.52 Inv.=Full Of Debris.
39. Storm Grate Top=228.23 Inv.=Full Of Debris.
40. Storm Inlet Top=229.51 Inv.Out=224.21
41. Storm Inlet Top=228.53 Inv.In=222.76 Inv.Out=222.67
42. Storm Inlet Top=228.32 Inv.In=223.30 Inv.Out=223.15
43. Storm Inlet Top=229.58 Inv.=Lid Sealed Shut with Asphalt
44. Possible Location Storm Inlet Top=Buried
45. Storm MH Top=232.50 Inv.In=226.40 (From-46) Inv.In=226.40 (From-47) Inv.Out=226.20
46. Storm MH Top=233.12 Inv.In=226.52 (From-27") Inv.In=226.62 (From-15") Inv.Out=226.47
47. Storm Inlet Top=232.74 Inv.In=220.24 Inv.Out=220.04
48. Storm Inlet Top=231.81 Inv.= Full of Debris.
49. Storm MH Top=230.43 Inv.In=224.28 (From-50) Inv.In=223.65 (From-53) Inv.Out=223.53
50. Storm Inlet Top=229.34 Inv.Out=224.24
51. Storm Inlet Top=229.37 Inv.Out=226.07
52. Storm Inlet Top=228.74 Inv.Out=225.45
53. Storm Inet Top=229.30 Inv.Out=225.70
54. Storm Inet Top=229.09 Inv.In=225.92 Inv.Out=225.79
55. Storm Inet Top=230.67 Inv.Out=226.67
56. Storm Inlet Top=231.42 Inv.Out=227.02
57. Storm Inlet Top=231.56 Inv.Out=226.86
58. Storm Inlet Top=232.51 Inv.In=227.21 (From-59) Inv.In=227.21 (From-27") Inv.Out=225.91
59. Storm MH Top=234.13 Inv.In=228.73 (From-60) Inv.In=230.63 (From-15") Inv.Out=228.60
60. Storm MH Top=236.22 Inv.In=230.42 (From-61) Inv.In=230.92 (From-62) Inv.Out=229.42
61. Storm Pond Top=241.36 Inv.Out=234.51
62. Storm Inlet Top=237.19 Inv.In=232.35 (From-64) Inv.In=232.94 (From-24") Inv.Out=231.25
63. Underground Detention Top=247.22 Inv.Out=234.53
64. Storm MH Top=243.97 Inv.In=239.48 Inv.Out=239.20
65. Storm MH Top=247.51 Inv.In=243.34 Inv.Out=243.11
66. Storm MH Top=247.80 Inv.In=242.51 (From-67) Inv.In=244.15 (From-68) Inv.Out=244.13
67. Storm Inlet Top=247.98 Inv.Out=244.83
68. Storm Grate Top=247.68 Inv.In=244.50 Inv.Out=244.38
69. Storm Pond Top=250.57 Inv.In=245.17 (6") Inv.Out=245.12
70. Storm Grate Top=245.32 Inv.In=239.52 Inv.Out=239.18
71. Storm Inlet Top=244.91 Inv.In=240.91 Inv.Out=240.21
72. Storm Inlet Top=246.00 Inv.Out=241.50
73. Storm Inlet Top=230.98 Inv.In=228.41 Inv.Out=228.28
74. Storm Inlet Top=232.39 Inv.In=229.18 Inv.Out=228.94
75. Storm Inlet Top=233.94 Inv.=Full of Debris
76. Storm Inlet Top=230.57 Inv.=Full of Debris
77. Storm Inlet Top=230.07 Inv.In=225.57 (From-78) Inv.In=226.77 (From-81) Inv.Out=225.17
78. Storm Inlet Top=230.86 Inv.In=226.16 (From-79) Inv.In=226.46 (From-83) Inv.Out=225.76
79. Storm MH Top=232.18 Inv.In=226.60 Inv.Out=226.35
80. Storm Inlet Top=233.40 Inv.In=227.44 Inv.Out=227.13
81. Storm Inlet Top=235.77 Inv.In=227.27 Inv.Out=227.17
82. Storm Inlet Top=235.48 Inv.Out=228.48
83. Storm MH Top=231.47 Inv.In=227.36 Inv.Out=226.97
84. Storm Inlet Top=230.74 Inv.Out=227.44
85. Storm Grate Top=226.59 Inv.Out=223.04
86. Storm Inlet Top=229.04 Inv.In=223.84 (From-87) Inv.In=223.84 (From-88) Inv.Out=223.74
87. Storm Inlet Top=229.49 Inv.Out=224.74
88. Storm Inlet Top=229.07 Inv.In=224.17 Inv.Out=223.97
89. Storm Inlet Top=229.05 Inv.Out=224.24
90. Storm Inlet Top=239.00 Inv.In=232.20 (From-91) Inv.In=230.70 (From-92) Inv.Out=225.95
91. Storm Inlet Top=236.96 Inv.Out=232.81
92. Storm Inlet Top=238.32 Inv.In=232.52 Inv.Out=232.22
93. Storm Inlet Top=232.24 Inv.In=227.14 (From-94) Inv.In=227.79 (From-95) Inv.Out=226.94
94. Storm Inlet Top=235.47 Inv.In=230.27 Inv.Out=230.07
95. Storm Inlet Top=235.19 Inv.Out=228.01
96. Storm Inlet Top=231.30 Inv.In=225.40 Inv.Out=225.00
97. Storm Inlet Top=232.38 Inv.In=225.78 Inv.Out=225.68
98. Storm Inlet Top=232.79 Inv.In=227.15 Inv.Out=226.65
99. Storm Inlet Top=233.34 Inv.In=228.03 Inv.Out=227.93
100. Storm Inlet Top=233.61 Inv.In=228.51 Inv.Out=228.21
101. Storm Inlet Top=234.28 Inv.In=229.44 Inv.Out=229.21
102. Storm Inlet Top=240.29 Inv.In=234.49 Inv.Out=234.23
103. Storm Inlet Top=247.76 Inv.In=242.12 Inv.Out=241.83
104. Storm Inlet Top=248.67 Inv.Out=243.67
105. Endwall Inv.=233.51
106. Storm Inlet Top=240.80 Inv.In=234.68 Inv.Out=234.55
107. Storm Inlet Top=243.10 Inv.In=235.93 Inv.Out=235.74
108. Storm Inlet Top=244.31 Inv.In=236.80 Inv.Out=236.53
109. Storm MH Top=246.12 Inv.In=238.47 Inv.Out=238.36
110. Storm Inlet Top=244.52 Inv.In=239.52 Inv.Out=239.02
111. Storm Inlet Top=248.78 Inv.In=242.71 (From-112) Inv.In=243.01 (From-114) Inv.Out=242.69
112. Storm Inlet Top=248.60 Inv.In=243.90 Inv.Out=243.70
113. Storm Inlet Top=248.29 Inv.Out=243.69
114. Storm Inlet Top=248.96 Inv.Out=244.44
115. Underground Detention Top=249.67 Inv.=Confined Space Required.
116. Storm Inlet Top=250.30 Inv.In=245.91 (From-117) Inv.In=245.30 (From-119) Inv.Out=242.93
117. Storm MH Top=253.34 Inv.In=247.31 Inv.Out=247.29
118. Endwall Inv.=251.80
119. Storm Inlet Top=252.09 Inv.In=247.51 Inv.Out=246.13
120. End Section Inv.Out=248.88
121. End Section Inv.Out=248.21
122. Storm MH Top=253.27 Inv.In=248.97 Inv.Out=248.87
123. Storm Inlet Top=253.03 Inv.In=249.17 Inv.Out=249.12
124. Storm MH Top=253.94 Inv.In=249.83 (From-125) Inv.In=250.18 (From-15") Inv.Out=249.71
125. Storm Inlet Top=254.02 Inv.Out=249.87
126. End Section Inv.=269.78
127. Storm Inlet Top=276.81 Inv.Out=270.56
128. Endwall Inv.=270.52
129. Storm Grate Top=273.17 Inv.In=269.11 Inv.Out=268.70
130. Storm Pipes Inv.=270.05
131. Storm MH Top=304.66 Inv.In=299.86 (From-132) Inv.In=299.86 (From-133) Inv.Out=299.76
132. Storm Inlet Top=304.60 Inv.Out=300.30
133. Storm Inlet Top=306.39 Inv.In=301.79 (From-134) Inv.In=301.59 (From-135) Inv.Out=301.49
134. Storm Inlet Top=305.49 Inv.Out=302.24
135. Storm Inlet Top=308.88 Inv.In=304.35 (From-136) Inv.In=304.35 (From-137) Inv.Out=303.99
136. Storm Inlet Top=309.10 Inv.Out=304.97
137. Storm MH Top=311.76 Inv.In=306.96 (From-138) Inv.In=306.96 (From-139) Inv.Out=306.86
138. Storm Inlet Top=314.14 Inv.Out=309.83
139. Storm Grate Top=311.53 Inv.In=307.78 Inv.Out=307.53
140. Storm Grate Top=311.58 Inv.Out=308.53
141. Storm Inlet Top=291.61 Inv.In=Sealed Shut Inv.Out=Sealed Shut
142. Storm Grate Top=294.90 Inv.In=287.60 (From-143) Inv.In=287.60 (From-144) Inv.In=287.30 (From-145) Inv.Out=287.00
143. Storm Inlet Top=291.47 Inv.Out=288.17
144. Storm Grate Top=295.68 Inv.Out=290.28
145. Storm Grate Top=296.24 Inv.In=287.94 Inv.Out=287.84
146. Storm Grate Top=297.34 Inv.In=289.64 Inv.Out=289.44
147. Storm Grate Top=297.70 Inv.In=291.90 (From-148) Inv.In=291.65 (From-18") Inv.Out=291.30
148. Storm Grate Top=298.62 Inv.Out=294.92
149. Storm Inlet Top=293.94 Inv.=Full of Debris
150. Storm Grate Top=281.24 Inv.In=276.74 (From-151) Inv.In=278.24 (From-36") Inv.Out=276.44
151. End Section Inv.=281.32
152. Endwall Inv.=281.97
153. Headwall Inv.=282.58
154. Storm Pipe Inv.=282.43
155. Storm Str. Top=289.11 Inv.=Unable to Access
156. Endwall Inv.=288.78
157. Headwall Inv.=289.03
158. Storm Grate Top=292.22 Inv.In=285.25 (From-159) Inv.In=284.62 (From-161) Inv.Out=284.57 (48" Opening)
159. Storm Inlet Top=290.00 Inv.In=285.53 Inv.Out=285.51
160. Storm Inlet Top=289.90 Inv.Out=285.79
161. Storm Grate Top=293.11 Inv.In=286.74 Inv.Out=286.69
162. End Section Inv.=289.70
163. Storm Inlet Top=292.42 Inv.Out=287.86
164. End Section Inv.=279.56
165. End Section Inv.=280.67
166. Wingwall Inv.=265.34
167. Storm MH Top=273.24 Inv.In=265.77 Inv.Out=265.71
168. Storm Inlet Top=281.19 Inv.In=267.21 (From-48"a) C/L Floor Elev.=266.59
169. Storm Inlet Top=281.44 Inv.In=276.44 (From-170) Inv.In=270.19 (From-48") Inv.Out=270.14
170. Storm Inlet Top=282.56 Inv.In=277.16 Inv.Out=277.03
171. Storm Inlet Top=282.63 Inv.In=279.45 Inv.Out=277.83
172. End Section Inv.=280.23
173. Wingwall Inv.=251.74
174. Wingwall Inv.=253.01
175. Storm Inlet Top=260.95 C/L Floor Elev.=255.60
176. Storm Inlet Top=260.83 C/L Floor Elev.=256.58
177. Storm Inlet Top=261.10 C/L Floor Elev.=257.60
178. Storm Inlet Top=262.80 C/L Floor Elev.=258.80
179. Storm Inlet Top=262.88 Inv.Out=259.38
180. End Section Inv.=252.71
181. End Section Inv.=253.03

VDOT PROJECT NO.	SHEET NO.
0621-076-265	IF(2)

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P.H. PLANS

Rinker Design Associates, P.C.
Civil Engineering - Surveying - Land Planning
Transportation - Environmental
Right of Way Services
Office Locations
3025 Hamaker Boulevard, Suite 7, Proctor, VA 23150, Phone: (804) 930-9160, Fax: (804) 930-9161
4108 Dominion Boulevard, Suite 102, Glen Allen, VA 23060, Phone: (804) 747-1758, Fax: (804) 747-5960
2021 Tuckahoe Drive, Suite 1, Fredericksburg, VA 22407, Phone: (540) 373-4117, Fax: (540) 373-4117

3/25/2019

PROJECT MANAGER PWCDOT: Khattab Shammout, P.E. (703) 792-7193
SURVEYED BY, DATE RDA: Ryan Dreella LS (703) 334-9302: September 2018
DESIGN BY RDA: Mark A.Gunn P.E. (703) 334-9288
SUBSURFACE UTILITY BY, DATE Accumark (703) 378-0100: November 2018

Survey Utility Information

REVISED	STATE	ROUTE	STATE VDOT PROJECT NO.	SHEET NO.
	VA.	621	0621-076-265 PE101 C501 RW201	IF(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
(Survey)

UTILITY LEGEND

- EB Electric Box
- Electric Guy Pole
- Electric Ground Light
- Electric Guy Wire
- Electric Hand Hole
- Electric Meter
- Electric Manhole
- Electric Marker Post
- Electric Pedestal
- Electric Stub
- Electric Power Pole
- Electric Power Riser Pole
- Electric Light Pole
- Electric Luminaire
- End of Information (All Utilities)
- Fire Hydrant
- Fiber Optic Hand Hole
- Fiber Optic Marker
- Fiber Optic Manhole
- Fiber Optic Pedestal
- Gas Meter
- Gas Manhole
- Gas Marker Post
- Gas Monitoring Well
- Gas Stub
- Gas Test Station
- Gas Valve
- Gas Vent
- Gas Well
- Sanitary Air Release Valve
- Sanitary Flow Arrow
- Sanitary Stub
- Sewer Clean Out
- Sanitary Force Main Valve
- Sanitary Marker Post
- Sanitary Manhole
- Sewer Vent Pipe
- Unknown Clean Out
- Unknown Hand Hole
- UK Unknown Manhole
- TB Telephone Booth
- Telephone Guy Pole
- Telephone Guy Wire
- Test Holes (All Utilities)
- Telephone Cell Tower
- Telephone Hand Hole
- Telephone Manhole
- Telephone Marker Post
- Telephone Pole
- Telephone Pedestal
- Telephone Riser Pole
- Television Satellite Dish
- Tower Anchor
- Traffic Camera Pole
- Traffic Control Hand Hole
- Traffic Control Manhole
- Traffic Control Guy Wire
- Traffic Control Pedestal
- Traffic Signal Guy Pole
- Traffic Signal Pole
- Traffic Signal Pole w/Luminaire
- Telephone Stub
- Television Hand Hole
- Television Manhole
- Television Marker Post
- Television Pedestal
- Television Stub
- Water Blow Off
- Water Well
- Water Meter
- Water Manhole
- Water Marker Post
- Water Spigot
- Water Siamese Connection
- Water Stub
- Water Valve
- Water Post Inspection Valve
- Water Irrigation Valve
- Water Steam Manhole
- Water Steam Vent Pipe

- Fiber Optic Cable Television
- Chemical Line (above or below ground)
- Underground Fiber Optic Duct
- Fuel Line (above or below ground)
- Gas Line *
- Gas Line Duct
- Gravity Sewer *
- Sanitary Force Main *
- Traffic Control Fiber Optic
- Telephone Fiber Optic
- Underground Fiber Optic
- Unknown Utility Line
- Underground Power Cable
- Underground Power Cable Duct
- Underground Telephone Cable
- Underground Telephone Cable Duct
- Underground Traffic Control
- Underground Traffic Control Duct
- Underground Television Cable
- Underground Television Cable Duct
- Vacuum Sewer
- Water Line *
- Water Line Duct
- Depicted According To Utility Records **
- Abandoned According To Utility Records **
- According To Miss Utility Information **

* Designate size (Variable from 0.75" to 54")
** Designate type (Unknown line is shown)

General Notes:

Date Of Submittal: 11/02/2018

Accumark, Inc. Performed An Underground Utility Designation Effort In 10/2018 Within The Project Limits Specified By The Client.

Accumark, Inc. Does Not Guarantee That Utilities Shown Comprise All Utilities Within The Project Limits Provided By The Client.

Field Designating And Marking Performed By Accumark, Inc. In Accordance With Quality Level B Standards Unless Otherwise Noted Hereon As Quality Levels C Or D.

Quality Control / Quality Assurance Review Performed By Michael C. Taylor, L.S.- Accumark, Inc.

The Utility Sizes Shown Herein Are Based On Information Provided By The Utility Company's Owner, By Written Records, By Verbal Information Or By Observed Visual Evidence.

Surveyed Locations Of Designated Utilities May Not Represent The Exact Centerline Of The Utility. Test Holes Will Be Necessary To Identify The Exact Centerline.

Utility Field Location Reference Notes:

All Horizontal And Vertical Survey Data Contained In Utility Mapping File "NV18-075 Accumark Utilities.dgn" Are Referenced To Traverse Stations / Control Points As Shown In A Text File Entitled "17016-5.txt" Provided By RDA Via Email On 09/27/2018.

Any Duplicate Utility Structures Survey Located But Also Found Within The Base Mapping Provided Have Utilized By Accumark, Inc.'s Internal QA/QC Of The Utility Mapping. The Base Mapping Files Utilized Are Entitled "sll28l3.dgn" And "sull28l3.dgn" Provided By RDA Via Email On 10/08/2018.

Utility Notes

- G1 4" x 3" Reducer In This Area Per Records.
- G2 Gas Valve Shown On Records Not Found In Field.
- G3 12" Casing Pipe Shown On Records.
- G4 Gas Test Station Per As-Built Drawings Not Found In Field.
- FM1 1500 Gal. Septic Tank And Grinder Pump Shown Per Records.
- W1 30" Steel Encasement Per As-Built Drawings.
- W2 50' Of 34" Steel Encasement Per As-Built Drawings.
- W3 115' Of 30" Steel Encasement Per As-Built Drawings. As-Built Sketch Shows Additional 26" Encasement What Appears To Be Inside 30" Encasement.
- W4 60' Of 24" Steel Encasement Per As-Built Drawings.
- W5 90' Of 30" Steel Encasement Per As-Built Drawings.
- W6 As-Built Drawings Note 12" Back-Tap Into 14" Water Due To Conflict With Gas Line.
- W7 55' Of 20" Encasement Per As-Built Drawings.
- W8 8" x 6" Reducer Per As-Built Drawings.
- W9 14" x 12" Reducer Per As-Built Drawings.
- W10 12" x 2" Reducer & 2" Valve Per As-Built Drawings. Plans Noted As "Project Permitted" - Utilities & Structures Not Yet Installed
- S1 50' Of 34" Steel Encasement Per As-Built Drawings.
- S2 As-Built Drawings Note "Ran Thru Casing 11-28-07".
- TV1 COAX TV Cable Exposed Above Ground At This EOI.
- T1 TPED Found Intalled In Deep Hole, Located By Offset. End Of Designation Located At Edge Of Hole.
- FO1 Designator Could Not Find Any Tags Within Structure To Identify Ownership.
- FO2 Designator Notes Miss Utility Paint Identifies As (FBL). Fiber Lines Originate From (SIG) Structure Across Balls Ford. No Tags Found Within Structure.

Utility Owners:

Electric:

Northern Virginia Electric Coop. (NVE)
14500 Minnieville Road
Woodbridge, VA 22193
(703) 392-1519

Water & Sewer:

Prince William County Service Authority (PWS)
4 County Complex Court
Woodbridge, VA 22195
Maureen Knight
(703) 335-7930

Telecom:

Comcast (CMC)
Planning & Design
324 W. Main Street
Charlottesville, VA
Doug Wright
(434) 951-3843

Verizon (VZN)
9401 Peabody Street
Manassas, VA
William (Bill) Lacy
(703) 369-9571

Summit IG (SIG)
22375 Broadrick Drive, Ste. 165
Dulles, VA 20166
(703) 443-1956

Fiberlight, LLC (FBL)
950 Herndon Parkway, Ste. 250
Herndon, VA 20170
Karl Strootman
(410) 979-0384

Zayo Communications (ZAY)
13861 Sunrise Valley Drive, Ste. 450
Herndon, VA 20171
Kris Kobylski
(571) 220-4813

Metro Duct Systems Of Virginia (MDS)
Christopher Hurt
(703) 479-0305

Gas:

Washington Gas (WGL)
6801 Industrial Road
Springfield, VA
Maps Administrator
(703) 750-4745

- A — Sanitary MH Top=220.24 Inv.In=209.74 Inv.Out=209.54
- B — Sanitary MH Top=225.07 Inv.In=216.88 (From-C) Inv.In=216.95 (From-8") Inv.Out=216.04
- C — Sanitary MH Top=225.71 Inv.In=217.99 Inv.Out=217.61
- D — Sanitary MH Top=221.40 Inv.In=212.79 (From-E) Inv.In=212.54 (From-F) Inv.Out=212.17
- E — Sanitary MH Top=223.17 Inv.In=214.02 Inv.Out=213.92
- F — Sanitary MH Top=221.32 Inv.In=212.56 Inv.Out=212.41
- G — Sanitary MH Top=225.16 Inv.In=215.17 Inv.Out=215.13
- H — Sanitary MH Top=229.08 Inv.In=216.98 (From-I) Inv.In=217.28 (From-J) Inv.In=217.28 (From-L) Inv.Out=216.84
- I — Sanitary MH Top=228.25 Inv.In=221.25 Inv.Out=221.15
- J — Sanitary MH Top=233.26 Inv.In=226.69 Inv.Out=226.05
- K — Sanitary MH Top=234.14 Inv.In=227.40 Inv.Out=226.74
- L — Sanitary MH Top=229.31 Inv.In=219.11 Inv.Out=219.01
- M — Sanitary MH Top=229.34 Inv.In=220.44 (From-N) Inv.In=220.24 (From-P) Inv.Out=220.14
- N — Sanitary MH Top=229.83 Inv.In=220.63 Inv.Out=220.33
- O — Sanitary MH Top=236.33 Inv.In=225.43 Inv.Out=225.33
- P — Sanitary MH Top=228.68 Inv.In=220.93 Inv.Out=220.77
- Q — Sanitary MH Top=232.57 Inv.In=221.22 Inv.Out=221.17
- R — Approx. Location Sanitary MH Unable to Locate Buried.
- S — Sanitary MH Top=241.89 Inv.In=229.19 Inv.Out=228.89
- T — Sanitary MH Top=288.92 Inv.In=277.92 Inv.Out=277.82
- U — Sanitary MH Top=292.84 Inv.In=282.24 Inv.Out=282.14
- V — Sanitary MH Top=292.24 Inv.In=283.84 (From-W) Inv.In=284.09 (From-Z) Inv.Out=283.74
- W — Sanitary MH Top=301.15 Inv.In=291.15 Inv.Out=290.95
- X — Sanitary MH Top=305.14 Inv.In=292.39 Inv.Out=292.29
- Y — Sanitary MH Top=303.52 Inv.In=295.02 Inv.Out=294.92
- Z — Sanitary MH Top=293.69 Inv.In=284.64 Inv.Out=284.58
- AA — Sanitary MH Top=293.15 Inv.In=286.15 Inv.Out=285.45
- BB — Sanitary MH Top=282.82 Inv.In=275.45 Inv.Out=275.34
- CC — Sanitary MH Top=287.54 Inv.In=280.42 Inv.Out=279.84
- DD — Sanitary MH Top=287.19 Inv.In=280.69 (From-EE) Inv.In=280.69 (From-GG) Inv.Out=280.46
- EE — Sanitary MH Top=287.00 Inv.In=281.14 Inv.Out=281.10
- FF — Sanitary MH Top=286.91 Inv.In=282.61 (From-3") Inv.In=282.01 (From-6") Inv.Out=281.34
- GG — Sanitary MH Top=287.39 Inv.In=281.43 Inv.Out=281.25
- HH — Sanitary MH Top=287.11 Inv.In=282.24 (From-II) Inv.In=282.40 (From-6") Inv.Out=282.24
- II — Sanitary MH Top=293.20 Inv.In=282.72 (From-JJ) Inv.In=282.69 (From-KK) Inv.Out=282.61
- JJ — Sanitary MH Top=293.52 Inv.In=286.02 Inv.Out=285.97
- KK — Sanitary MH Top=291.25 Inv.In=285.55 Inv.Out=285.39
- LL — Sanitary MH Top=291.46 Inv.In=287.20 (From-4") Inv.In=286.75 (From-6") Inv.Out=286.42

VDOT PROJECT NO.	SHEET NO.
0621-076-265	IF(3)

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P.H. PLANS

Rinker Design Associates, P.C.
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Transportation - Environmental
Right-of-Way Services
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3025 Hunter Mill Road, Suite 600, Fairfax, VA 22031 Phone: (703) 573-7300 Fax: (703) 573-5651
4365 Dickinson Boulevard, Suite 100, Harrisburg, PA 17109 Phone: (717) 545-4940 Fax: (717) 545-4942
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3/25/2019

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Norfolk, Virginia
Phone: (703) 372-0444

PROJECT MANAGER PWCDOT: Khattab Shammout, P.E. (703) 792-7193
SURVEYED BY, DATE RDA: Ryan Dreella LS (703) 334-9302: September 2018
DESIGN BY RDA: Mack & Gunn P.E. (703) 334-9288
SUBSURFACE UTILITY BY, DATE Accumark (703) 378-0100: November 2018

Geometric Data

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

REVISED	STATE	ROUTE	VDOT PROJECT NO.	SHEET NO.
	VA.	621	0621-076-265 PE101 C501 RW201	IG

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

Balls Ford Road (Route 621)

Posted Speed 45 MPH
From Sta.106+47.03 to Sta.171+17.25

Chain RTE621 contains:
CUR RTE621_1 CUR RTE621_4 CUR RTE621_7 CUR RTE621_10 CUR RTE621_13 CUR RTE621_16 CUR RTE621_19 RTE62121

Beginning chain RTE621 description
****

Curve Data

Curve RTE621_1
P.I. Station 95+57.90 N 6,974,169.1318 E 11,753,720.4383
Delta = 39° 38' 05" (RT)
Degree = 5° 52' 13"
Tangent = 351.7158
Length = 675.1543
Radius = 976.0000
External = 61.4391
Long Chord = 661.7730
Mid.Ord. = 57.8006
P.C. Station 92+06.18 N 6,974,086.8410 E 11,753,378.4848
P.T. Station 98+81.33 N 6,974,014.3772 E 11,754,036.2785
C.C. N 6,973,137.9310 E 11,753,606.8393
Back = N 76° 28' 08" E
Ahead = S 63° 53' 46" E
Chord Bear = S 83° 42' 48" E

Course from PT RTE621_1 to PC RTE621_4 S 63° 53' 46" E Dist 301.1941

Curve Data

Curve RTE621_4
P.I. Station 108+34.64 N 6,973,594.9232 E 11,754,892.3457
Delta = 26° 36' 21" (LT)
Degree = 2° 04' 38"
Tangent = 652.1121
Length = 1,280.7038
Radius = 2,758.0000
External = 76.0456
Long Chord = 1,269.2282
Mid.Ord. = 74.0050
P.C. Station 101+82.53 N 6,973,881.8520 E 11,754,306.7502
P.T. Station 114+63.23 N 6,973,600.6368 E 11,755,544.4328
C.C. N 6,976,358.5310 E 11,755,520.2679
Back = S 63° 53' 46" E
Ahead = N 89° 29' 52" E
Chord Bear = S 77° 11' 56" E

Course from PT RTE621_4 to PC RTE621_7 N 89° 29' 52" E Dist 1,080.6123

Curve Data

Curve RTE621_7
P.I. Station 127+42.64 N 6,973,611.8467 E 11,756,823.7879
Delta = 5° 36' 32" (LT)
Degree = 1° 24' 42"
Tangent = 198.7918
Length = 397.2661
Radius = 4,058.0000
External = 4.8663
Long Chord = 397.1075
Mid.Ord. = 4.8604
P.C. Station 125+43.84 N 6,973,610.1049 E 11,756,625.0037
P.T. Station 129+41.11 N 6,973,633.0094 E 11,757,021.4501
C.C. N 6,977,667.9491 E 11,756,589.4485
Back = N 89° 29' 52" E
Ahead = N 83° 53' 20" E
Chord Bear = N 86° 41' 36" E

Course from PT RTE621_7 to PC RTE621_10 N 83° 53' 20" E Dist 217.5094

Curve Data

Curve RTE621_10
P.I. Station 136+12.35 N 6,973,704.4675 E 11,757,688.8760
Delta = 20° 26' 43" (LT)
Degree = 2° 16' 38"
Tangent = 453.7309
Length = 897.8119
Radius = 2,516.0000
External = 40.5852
Long Chord = 893.0560
Mid.Ord. = 39.9409
P.C. Station 131+58.62 N 6,973,656.1647 E 11,757,237.7235
P.T. Station 140+56.43 N 6,973,907.3221 E 11,758,094.7352
C.C. N 6,976,157.8672 E 11,756,969.8783
Back = N 83° 53' 20" E
Ahead = N 63° 26' 36" E
Chord Bear = N 73° 39' 58" E

Course from PT RTE621_10 to PC RTE621_13 N 63° 26' 36" E Dist 208.1747

Curve Data

Curve RTE621_13
P.I. Station 144+49.27 N 6,974,082.9537 E 11,758,446.1281
Delta = 21° 23' 07" (LT)
Degree = 5° 51' 30"
Tangent = 184.6654
Length = 365.0332
Radius = 978.0000
External = 17.2815
Long Chord = 362.9180
Mid.Ord. = 16.9815
P.C. Station 142+64.61 N 6,974,000.3932 E 11,758,280.9461
P.T. Station 146+29.64 N 6,974,220.0615 E 11,758,569.8324
C.C. N 6,974,875.2076 E 11,757,843.7004
Back = N 63° 26' 36" E
Ahead = N 42° 03' 29" E
Chord Bear = N 52° 45' 02" E

Course from PT RTE621_13 to PC RTE621_16 N 42° 03' 29" E Dist 627.8870

Curve Data

Curve RTE621_16
P.I. Station 155+48.92 N 6,974,902.5977 E 11,759,185.6446
Delta = 26° 18' 19" (RT)
Degree = 4° 35' 40"
Tangent = 291.3955
Length = 572.5178
Radius = 1,247.0000
External = 33.5937
Long Chord = 567.5027
Mid.Ord. = 32.7125
P.C. Station 152+57.53 N 6,974,686.2464 E 11,758,990.4435
P.T. Station 158+30.05 N 6,975,010.0402 E 11,759,456.5088
C.C. N 6,973,850.9017 E 11,759,916.2989
Back = N 42° 03' 29" E
Ahead = N 68° 21' 48" E
Chord Bear = N 55° 12' 38" E

Course from PT RTE621_16 to PC RTE621_19 N 68° 21' 48" E Dist 296.2326

Curve Data

Curve RTE621_19
P.I. Station 162+71.25 N 6,975,172.7197 E 11,759,866.6266
Delta = 9° 10' 07" (RT)
Degree = 3° 10' 08"
Tangent = 144.9716
Length = 289.3243
Radius = 1,808.0000
External = 5.8028
Long Chord = 289.0157
Mid.Ord. = 5.7843
P.C. Station 161+26.28 N 6,975,119.2662 E 11,759,731.8694
P.T. Station 164+15.60 N 6,975,204.0177 E 11,760,008.1795
C.C. N 6,973,438.6548 E 11,760,398.5097
Back = N 68° 21' 48" E
Ahead = N 77° 31' 55" E
Chord Bear = N 72° 56' 52" E

Course from PT RTE621_19 to RTE62121 N 77° 31' 55" E Dist 834.3981

Point RTE62121 N 6,975,384.1564 E 11,760,822.9004 Sta 172+50.00

****
Ending chain RTE621 description

Doane Drive (Route 803)

No Posted Speed
From Sta.10+41.15 to Sta.11+00.00

Chain RTE803 contains:
RTE80311 RTE80312

Beginning chain RTE803 description
Feature:- 25 Scale Baselines
****

Point RTE80311 N 6,973,613.2401 E 11,755,255.8029 Sta 10+00.00

Course from RTE80311 to RTE80312 S 0° 30' 07" E Dist 200.9488

Point RTE80312 N 6,973,412.2990 E 11,755,257.5636 Sta 12+00.95

****
Ending chain RTE803 description

Entr.11178LT

No Posted Speed
From Sta.10+31.00 to Sta.11+00.00

Chain ENTR_11178LT contains:
20 CUR ENTR_11178LT_3 21

Beginning chain ENTR_11178LT description
Feature:- 25 Scale Baselines
****

Point 20 N 6,973,612.7531 E 11,755,260.9080 Sta 10+00.00

Course from 20 to PC ENTR_11178LT_3 N 0° 52' 28" W Dist 120.9395

Curve Data

Curve ENTR_11178LT_3
P.I. Station 12+20.71 N 6,973,833.4422 E 11,755,257.5393
Delta = 89° 18' 03" (LT)
Degree = 56° 43' 42"
Tangent = 99.7754
Length = 157.4183
Radius = 101.0000
External = 40.9723
Long Chord = 141.9617
Mid.Ord. = 29.1479
P.C. Station 11+20.94 N 6,973,733.6785 E 11,755,259.0621
P.T. Station 12+78.36 N 6,973,833.1365 E 11,755,157.7644
C.C. N 6,973,732.1370 E 11,755,158.0739
Back = N 0° 52' 28" W
Ahead = S 89° 49' 27" W
Chord Bear = N 45° 31' 30" W

Course from PT ENTR_11178LT_3 to 21 S 89° 49' 27" W Dist 20.6310

Point 21 N 6,973,833.0733 E 11,755,137.1335 Sta 12+98.99

****
Ending chain ENTR_11178LT description

Entr.1109RT (Off Notes Dr)

No Posted Speed
From Sta.10+23.19 to Sta.11+94.41

Chain ENTR_1109RT contains:
ENTR11091011 ENTR11091012

Beginning chain ENTR_1109RT description
****

Point ENTR11091011 N 6,973,496.9078 E 11,756,195.6506 Sta 10+00.00

Course from ENTR11091011 to ENTR11091012 S 89° 29' 52" W Dist 255.3381

Point ENTR11091012 N 6,973,494.6706 E 11,755,940.3223 Sta 12+55.34

****
Ending chain ENTR_1109RT description

Notes Drive (Route 802)

Posted Speed 45 MPH
From Sta.10+33.00 to Sta.10+85.00

Chain NOTESDR contains:
NOTESDR1 NOTESDR2

Beginning chain NOTESDR description
****

Point NOTESDR1 N 6,973,606.3345 E 11,756,194.6917 Sta 10+00.00

Course from NOTESDR1 to NOTESDR2 S 0° 30' 07" E Dist 210.5000

Point NOTESDR2 N 6,973,395.8425 E 11,756,196.5361 Sta 12+10.50

****
Ending chain NOTESDR description

Century Park Drive

No Posted Speed
From Sta.10+48.00 to Sta.10+88.30

Chain CENTURYPARKDR contains:
CENTURYPARKDR1 CENTURYPARKDR3 CENTURYPARKDR4

Beginning chain CENTURYPARKDR description
****

Point CENTURYPARKDR1 N 6,973,606.4802 E 11,756,211.3287 Sta 10+11.63

Course from CENTURYPARKDR1 to CENTURYPARKDR3 N 0° 22' 28" W Dist 340.9979

Point CENTURYPARKDR3 N 6,973,947.4709 E 11,756,209.0998 Sta 13+52.63

Course from CENTURYPARKDR3 to CENTURYPARKDR4 N 0° 30' 08" W Dist 951.3557

Point CENTURYPARKDR4 N 6,974,898.7900 E 11,756,200.7605 Sta 23+03.98

****
Ending chain CENTURYPARKDR description

Comm.Entr.12583RT

No Posted Speed
From Sta.10+33.00 to Sta.11+32.00

Chain ENTR__12583RT contains:
24 25

Beginning chain ENTR__12583RT description
Feature:- 25 Scale Baselines
****

Point 24 N 6,973,610.6436 E 11,756,664.5197 Sta 10+00.00

Course from 24 to 25 S 2° 13' 38" E Dist 169.4465

Point 25 N 6,973,441.3250 E 11,756,671.1048 Sta 11+69.45

****
Ending chain ENTR__12583RT description

Comm.Entr.1090RT (Off Comm.Ent.12583)

No Posted Speed
From Sta.10+00.00 to Sta.11+55.13

Chain ENTR__12583RT contains:
24 25

Beginning chain ENTR__12583RT description
Feature:- 25 Scale Baselines
****

Point 24 N 6,973,610.6436 E 11,756,664.5197 Sta 10+00.00

Course from 24 to 25 S 2° 13' 38" E Dist 169.4465

Point 25 N 6,973,441.3250 E 11,756,671.1048 Sta 11+69.45

****
Ending chain ENTR__12583RT description

VDOT PROJECT NO.	SHEET NO.
0621-076-265	IG

ADDITIONAL EASEMENTS FOR UTILITY RELOCATIONS MAY BE REQUIRED BEYOND THE PROPOSED RIGHT-OF-WAY SHOWN ON THESE PLANS

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

P.H. PLANS

3/25/2019

Rinker Design Associates, P.C.
Civil Engineering - Surveying - Land Planning
Transportation - Environmental
Right of Way Services
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Phone: (703) 792-7193
Fax: (703) 792-7197

PROJECT MANAGER PWCDOT: Khattab Shammout, P.E. (703) 792-7193
SURVEYED BY, DATE RDA: Ryan Dreella LS (703) 334-9302: September 2018
DESIGN BY RDA: Mark A. Gunn P.E. (703) 334-9288
SUBSURFACE UTILITY BY, DATE Accumark (703) 378-0100: November 2018

Geometric Data

REVISED	STATE	STATE ROUTE	STATE VDOT PROJECT NO.	SHEET NO.
	VA.	621	0621-076-265 PE101 C501 RW201	IG(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
(Survey)

Comm.Entr 12799LT

No Posted Speed
From Sta.10+37.59 to Sta.10+88.00

Chain ENTR_12799LT contains:
ENTR127101 ENTR127102

Beginning chain ENTR_12799LT description
****

Point ENTR127101 N 6,973,620.0886 E 11,756,876.1344 Sta 10+00.00

Course from ENTR127101 to ENTR127102 Due North Dist 162.2405

Point ENTR127102 N 6,973,782.3290 E 11,756,876.1344 Sta 11+62.24

****
Ending chain ENTR_12799LT description

Comm.Entr 13635LT

No Posted Speed
From Sta.10+33.00 to Sta.10+68.00

Chain ENTR_13635LT contains:
33 34

Beginning chain ENTR_13635LT description
Feature: - 25 Scale Baselines
****

Point 33 N 6,973,751.3454 E 11,757,703.9826 Sta 10+00.00

Course from 33 to 34 N 16° 19' 25" W Dist 98.6707

Point 34 N 6,973,846.0387 E 11,757,676.2500 Sta 10+98.67

****
Ending chain ENTR_13635LT description

Mason King Drive

Posted Speed 25 MPH
From Sta.10+33.00 to Sta.11+60.00

Chain MASONKINGCT contains:
MASONKINGCT1 MASONKINGCT2

Beginning chain MASONKINGCT description
Feature: - 25 Scale Baselines
****

Point MASONKINGCT1 N 6,973,655.4677 E 11,757,231.2134 Sta 10+00.00

Course from MASONKINGCT1 to MASONKINGCT2 S 5° 52' 23" E Dist 161.5924

Point MASONKINGCT2 N 6,973,494.7236 E 11,757,247.7490 Sta 11+61.59

****
Ending chain MASONKINGCT description

Comm.Entr 13136LT

No Posted Speed
From Sta.10+33.00 to Sta.11+20.00

Chain ENTR_13136LT contains:
30 CUR ENTR_13136LT_3 CUR ENTR_13136LT_6

Beginning chain ENTR_13136LT description
Feature: - 25 Scale Baselines
****

Point 30 N 6,973,653.7650 E 11,757,215.3096 Sta 10+00.00

Course from 30 to PC ENTR_13136LT_3 N 6° 06' 39" W Dist 49.6994

Curve Data

Curve ENTR_13136LT_3
P.I. Station 11+12.45 N 6,973,765.5750 E 11,757,203.3386
Delta = 52° 35' 13" (LT)
Degree = 45° 06' 53"
Tangent = 62.7496
Length = 116.5630
Radius = 127.0000
External = 14.656.3
Long Chord = 112.5146
Mid.Ord. = 13.1399
P.C. Station 10+49.70 N 6,973,703.1820 E 11,757,210.0188
P.T. Station 11+66.26 N 6,973,798.1763 E 11,757,149.7227
C.C. N 6,973,689.6620 E 11,757,083.7405
Back = N 6° 06' 39" W
Ahead = N 58° 41' 53" W
Chord Bear = N 32° 24' 16" W

Course from PT ENTR_13136LT_3 to PC ENTR_13136LT_6 N 58° 41' 53" W Dist 46.7714

Curve Data

Curve ENTR_13136LT_6
P.I. Station 12+57.33 N 6,973,845.4906 E 11,757,071.9096
Delta = 26° 51' 41" (RT)
Degree = 30° 53' 14"
Tangent = 44.2973
Length = 86.9659
Radius = 185.4990
External = 5.2158
Long Chord = 86.1717
Mid.Ord. = 5.0731
P.C. Station 12+13.03 N 6,973,822.4761 E 11,757,109.7592
P.T. Station 13+00.00 N 6,973,883.1235 E 11,757,048.5428
C.C. N 6,973,980.9745 E 11,757,206.1343
Back = N 58° 41' 53" W
Ahead = N 31° 50' 12" W
Chord Bear = N 45° 16' 03" W

****
Ending chain ENTR_13136LT description

Comm.Entr.13468LT

No Posted Speed
From Sta.10+33.00 to Sta.10+68.00

Chain ENTR_13468LT contains:
31 32

Beginning chain ENTR_13468LT description
Feature: - 25 Scale Baselines
****

Point 31 N 6,973,708.0917 E 11,757,543.3380 Sta 10+00.00

Course from 31 to 32 N 10° 42' 33" W Dist 100.0496

Point 32 N 6,973,806.3987 E 11,757,524.7460 Sta 11+00.05

****
Ending chain ENTR_13468LT description

Comm.Entr 13725LT

No Posted Speed
From Sta.10+33.07 to Sta.10+82.00

Chain ENTR_13725LT contains:
35 36

Beginning chain ENTR_13725LT description
Feature: - 25 Scale Baselines
****

Point 35 N 6,973,779.1056 E 11,757,789.4814 Sta 10+00.00

Course from 35 to 36 N 15° 20' 04" W Dist 97.5225

Point 36 N 6,973,873.1560 E 11,757,763.6909 Sta 10+97.52

****
Ending chain ENTR_13725LT description

Bethlehem Road/Old Compton Road (Route 821)

Posted Speed 35 MPH
From Sta.10+15.00 to Sta.14+50.32 & Sta.15+24.89 to Sta.21+13.15

Chain RTE821 contains:
RTE821 11 CUR RTE821_3 CUR RTE821_6 RTE821 8

Beginning chain RTE821 description
****

Point RTE821 11 N 6,974,324.7196 E 11,757,883.3530 Sta 10+00.00

Course from RTE821 11 to PC RTE821_3 S 7° 02' 50" E Dist 185.6065

Curve Data

Curve RTE821_3
P.I. Station 13+57.60 N 6,973,969.8235 E 11,757,927.2274
Delta = 49° 30' 32" (LT)
Degree = 15° 21' 38"
Tangent = 171.9913
Length = 322.3081
Radius = 373.0000
External = 37.7432
Long Chord = 312.3740
Mid.Ord. = 34.2750
P.C. Station 11+85.61 N 6,974,140.5154 E 11,757,906.1255
P.T. Station 15+07.91 N 6,973,875.0369 E 11,758,070.7422
C.C. N 6,974,186.2794 E 11,758,276.3074
Back = S 7° 02' 50" E
Ahead = S 56° 33' 23" E
Chord Bear = S 31° 48' 07" E

Course from PT RTE821_3 to PC RTE821_6 S 56° 33' 23" E Dist 216.4856

Curve Data

Curve RTE821_6
P.I. Station 18+78.08 N 6,973,671.0364 E 11,758,379.6157
Delta = 5° 51' 53" (RT)
Degree = 1° 54' 35"
Tangent = 153.6752
Length = 307.0820
Radius = 3,000.0000
External = 3.9334
Long Chord = 306.9480
Mid.Ord. = 3.9283
P.C. Station 17+24.40 N 6,973,755.7288 E 11,758,251.3844
P.T. Station 20+31.48 N 6,973,573.6843 E 11,758,498.5217
C.C. N 6,971,252.4372 E 11,756,598.0449
Back = S 56° 33' 23" E
Ahead = S 50° 41' 30" E
Chord Bear = S 53° 37' 27" E

Course from PT RTE821_6 to RTE821 8 S 50° 41' 30" E Dist 118.5177

Point RTE821 8 N 6,973,498.6043 E 11,758,590.2246 Sta 21+50.00

****
Ending chain RTE821 description

Jacksonville Ave.

Posted Speed 25 MPH
From Sta.10+33.20 to Sta.11+17.00

Chain JACKSONVILLEAVE contains:
JACKSONVILE101 JACKSONVILE102

Beginning chain JACKSONVILLEAVE description
****

Point JACKSONVILE101 N 6,974,401.7463 E 11,758,733.7558 Sta 10+00.00

Course from JACKSONVILE101 to JACKSONVILE102 N 41° 39' 43" W Dist 211.0910

Point JACKSONVILE102 N 6,974,559.4481 E 11,758,593.4364 Sta 12+11.09

****
Ending chain JACKSONVILLEAVE description

Comm.Entr.15095RT

No Posted Speed
From Sta.10+33.00 to Sta.15+29.28

Chain ENTR_15095RT contains:
ENT150951 01 CUR ENTR_15095RT1 ENT150951 02 ENT150951 03

Beginning chain ENTR_15095RT description
****

Point ENT150951 01 N 6,974,565.3154 E 11,758,881.3346 Sta 10+00.00

Course from ENT150951 01 to PC ENTR_15095RT1 S 47° 04' 28" E Dist 76.1756

Curve Data

Curve ENTR_15095RT1
P.I. Station 10+93.36 N 6,974,501.7327 E 11,758,949.6970
Delta = 94° 05' 23" (LT)
Degree = 358° 05' 56"
Tangent = 17.1849
Length = 26.2748
Radius = 16.0000
External = 7.4802
Long Chord = 23.4204
Mid.Ord. = 5.0972
P.C. Station 10+76.18 N 6,974,513.4364 E 11,758,937.1135
P.T. Station 11+02.45 N 6,974,515.1189 E 11,758,960.4734
C.C. N 6,974,525.1522 E 11,758,948.0102
Back = S 47° 04' 28" E
Ahead = N 38° 50' 07" E
Chord Bear = N 85° 52' 49" E

Course from PT ENTR_15095RT1 to ENT150951 02 N 39° 40' 24" E Dist 35.1014

Point ENT150951 02 N 6,974,542.1362 E 11,758,982.8826 Sta 11+37.55

Course from ENT150951 02 to ENT150951 03 N 50° 49' 41" E Dist 347.7039

Point ENT150951 03 N 6,974,761.7628 E 11,759,252.4418 Sta 14+85.26

****
Ending chain ENTR_15095RT description

Comm.Entr.15957LT

No Posted Speed
From Sta.10+33.05 to Sta.10+87.00

Chain ENTR_15957LT contains:
ENTR159571 01 ENTR159571 02

Beginning chain ENTR_15957LT description
Description: ***
****

Point ENTR159571 01 N 6,975,058.5951 E 11,759,578.9166 Sta 10+00.00

Course from ENTR159571 01 to ENTR159571 02 N 24° 45' 30" W Dist 108.3723

Point ENTR159571 02 N 6,975,157.0060 E 11,759,533.5310 Sta 11+08.37

****
Ending chain ENTR_15957LT description

VDOT PROJECT NO.	SHEET NO.
0621-076-265	IG(1)

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P.H. PLANS

3/25/2019

PROJECT MANAGER PWCDOT: Khattab Shammout, P.E. (703) 792-7193
SURVEYED BY, DATE RDA: Ryan Dreella LS (703) 334-9302: September, 2018
DESIGN BY RDA: Mark A. Gunn, P.E. (703) 334-9288
SUBSURFACE UTILITY BY, DATE Accumark (703) 378-0100: November 2018

Geometric Data

REVISED	STATE	ROUTE	STATE VDOT PROJECT NO.	SHEET NO.
	VA.	621	0621-076-265 PE101 C501 RW201	1G(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
(Survey)

Comm.Entr 16281LT

No Posted Speed
From Sta.10+33.00 to Sta.10+78.00

Chain ENTR_16281LT contains:
ENTR162811O1 ENTR162811O2

Beginning chain ENTR_16281LT description
****

Point ENTR162811O1 N 6,975,171.5074 E 11,759,882.6746 Sta 10+00.00

Course from ENTR162811O1 to ENTR162811O2 N 15° 49' 52" W Dist 102.4075

Point ENTR162811O2 N 6,975,270.0305 E 11,759,854.7373 Sta 11+02.41

****
Ending chain ENTR_16281LT description

Comm.Entr 16366LT

No Posted Speed
From Sta.10+33.00 to Sta.11+07.00

Chain ENTR_16366LT contains:
ENTR163661O1 ENTR163661O2

Beginning chain ENTR_16366LT description
****

Point ENTR163661O1 N 6,975,193.9046 E 11,759,964.9637 Sta 10+00.00

Course from ENTR163661O1 to ENTR163661O2 N 13° 29' 06" W Dist 125.0000

Point ENTR163661O2 N 6,975,315.4584 E 11,759,935.8149 Sta 11+25.00

****
Ending chain ENTR_16366LT description

Comm.Entr.16784RT

No Posted Speed
From Sta.10+45.00 to Sta.10+94.38

Chain ENTR_16784RT contains:
ENTR167841O1 ENTR167841O2

Beginning chain ENTR_16784RT description
Description: ENTR163661O1 ENTR163661O2
****

Point ENTR167841O1 N 6,975,284.6956 E 11,760,373.0645 Sta 10+00.00

Course from ENTR167841O1 to ENTR167841O2 S 12° 28' 04" E Dist 125.0000

Point ENTR167841O2 N 6,975,162.6434 E 11,760,400.0509 Sta 11+25.00

****
Ending chain ENTR_16784RT description

Comm.Entr.2057LT (Off Bethleham Rd.)

No Posted Speed
From Sta.10+11.56 to Sta.10+50.00

Chain ENTR_2057LT contains:
ENTR20571O1 ENTR20571O2

Beginning chain ENTR_2057LT description
****

Point ENTR20571O1 N 6,973,557.3060 E 11,758,518.5261 Sta 10+00.00

Course from ENTR20571O1 to ENTR20571O2 N 57° 10' 22" E Dist 123.2139

Point ENTR20571O2 N 6,973,624.1012 E 11,758,622.0639 Sta 11+23.21

****
Ending chain ENTR_2057LT description

Balls Ford Road (Route 621DDI)

No Posted Speed
From Sta.476+00.00 to Sta.500+00.00

Chain RTE621DDI contains:
I9 CUR RTE621DDI_3 CUR RTE621DDI_4

Beginning chain RTE621DDI description
****

Point I9 N 6,972,857.3705 E 11,753,439.2403 Sta 476+00.00

Course from I9 to PC RTE621DDI_3 N 43° 54' 15" E Dist 680.3370

Curve Data

Curve RTE621DDI_3
P.I. Station 487+81.45 N 6,973,708.6068 E 11,754,258.5251
Delta = 53° 13' 56" (RT)
Degree = 5° 43' 46"
Tangent = 501.1159
Length = 929.0799
Radius = 1,000.0000
External = 118.5335
Long Chord = 896.0231
Mid.Ord. = 105.9722
P.C. Station 482+80.34 N 6,973,347.5530 E 11,753,911.0236
P.T. Station 492+09.42 N 6,973,646.3504 E 11,754,755.7588
C.C. N 6,972,654.0977 E 11,754,631.5232
Back = N 43° 54' 15" E
Ahead = S 82° 51' 48" E
Chord Bear = N 70° 31' 13" E

Curve Data

Curve RTE621DDI_4
P.I. Station 496+05.29 N 6,973,597.1683 E 11,755,148.5699
Delta = 7° 38' 19" (LT)
Degree = 0° 57' 58"
Tangent = 395.8781
Length = 790.5832
Radius = 5,930.0000
External = 13.1994
Long Chord = 789.9978
Mid.Ord. = 13.1701
P.C. Station 492+09.42 N 6,973,646.3504 E 11,754,755.7588
P.T. Station 500+00.00 N 6,973,600.6368 E 11,755,544.4328
C.C. N 6,979,530.4092 E 11,755,492.4757
Back = S 82° 51' 48" E
Ahead = N 89° 29' 52" E
Chord Bear = S 86° 40' 57" E

****
Ending chain RTE621DDI description

Comm.Entr.17001RT (Off Bethlehem Rd.)

No Posted Speed
From Sta.10+45.00 to Sta.10+94.38

Chain ENTR_17001RT contains:
ENT170010I ENT170010I2

Beginning chain ENTR_17001RT description
****

Point ENT170010I N 6,973,769.2087 E 11,758,230.9747 Sta 10+00.00

Course from ENT170010I to ENT170010I2 S 26° 34' 26" W Dist 100.0000

Point ENT170010I2 N 6,973,679.7729 E 11,758,186.2395 Sta 11+00.00

****
Ending chain ENTR_17001RT description

FreeFlow Right Turn (Off Centry Park Dr)

No Posted Speed
From Sta.10+00.00 to Sta.13+05.06

Chain FREEFLOW1 contains:
CUR FREEFLOW1_1 FREEFLOW13

Beginning chain FREEFLOW1 description
****

Curve Data

Curve FREEFLOW1_1
P.I. Station 11+32.29 N 6,973,663.8296 E 11,756,250.9547
Delta = 90° 07' 39" (LT)
Degree = 43° 24' 21"
Tangent = 132.2941
Length = 207.6389
Radius = 132.0000
External = 54.8843
Long Chord = 186.8838
Mid.Ord. = 38.7658
P.C. Station 10+00.00 N 6,973,796.1209 E 11,756,250.0900
P.T. Station 12+07.64 N 6,973,664.9888 E 11,756,383.2437
C.C. N 6,973,796.9837 E 11,756,382.0872
Back = S 0° 22' 28" E
Ahead = N 89° 29' 52" E
Chord Bear = S 45° 26' 17" E

Course from PT FREEFLOW1_1 to FREEFLOW13 N 89° 29' 52" E Dist 97.4249

Point FREEFLOW13 N 6,973,665.8424 E 11,756,480.6649 Sta 13+05.06

****
Ending chain FREEFLOW1 description

Bioretention (Off Entr 11178)

No Posted Speed
From Sta.10+16.61 to Sta.10+97.12

Chain ENTR_B101 contains:
ENTRB1010I CUR ENTR_B1011 ENTRB1010I2

Beginning chain ENTR_B101 description
****

Point ENTRB1010I N 6,973,833.1023 E 11,755,146.6096 Sta 10+00.00

Course from ENTRB1010I to PC ENTR_B1011 S 0° 29' 17" E Dist 31.6274

Curve Data

Curve ENTR_B1011
P.I. Station 10+41.38 N 6,973,791.7231 E 11,755,146.9623
Delta = 78° 12' 22" (LT)
Degree = 477° 27' 53"
Tangent = 9.7532
Length = 16.3795
Radius = 12.0000
External = 3.4631
Long Chord = 15.1372
Mid.Ord. = 2.6879
P.C. Station 10+31.63 N 6,973,801.4760 E 11,755,146.8792
P.T. Station 10+48.01 N 6,973,789.8111 E 11,755,156.5262
C.C. N 6,973,801.5783 E 11,755,158.8787
Back = S 0° 29' 17" E
Ahead = S 78° 41' 39" E
Chord Bear = S 39° 35' 28" E

Course from PT ENTR_B1011 to ENTRB1010I2 S 78° 41' 39" E Dist 59.1825

Point ENTRB1010I2 N 6,973,778.2089 E 11,755,214.5603 Sta 11+07.19

****
Ending chain ENTR_B101 description

VDOT PROJECT NO.	SHEET NO.
0621-076-265	1G(2)

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P.H. PLANS

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Transportation - Environmental
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4101 Dominion Boulevard Suite 200 Roanoke, VA 24018 Phone: (540) 772-4928 Fax: (540) 772-4928
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Phone: (703) 204-0000
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Richmond Office
8600 Discovery Boulevard
Suite 100
Phone: (804) 378-0100
Fax: (804) 378-0101
Fredericksburg Office
2015 Tidewater Pike
Suite 1
Phone: (540) 373-0000
Fax: (540) 373-0007

PROJECT MANAGER PWCDOT: Khattab Shammout, P.E. (703) 792-7193
SURVEYED BY, DATE RDA: Ryan Dreella LS (703) 334-9302: September, 2018
DESIGN BY RDA: Mark A. Gunn, P.E. (703) 334-9288
SUBSURFACE UTILITY BY, DATE Accumark (703) 378-0100: November 2018

Underground Utilities Test Hole Information

REVISED	STATE	STATE ROUTE	STATE VDOT PROJECT NO.	SHEET NO.
	VA.	621	0621-076-265 PE101 C501 RW201	IH

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

PLAN SHEET	TEST HOLE	DISTANCE (FEET)	(1) STATION & ROADWAY	OWNER	TYPE OF FACILITY	(2) ELEV. (FEET)	(3) CONFLICT YES/NO	(4) REMARKS	(5) UTILITY ADJUSTMENT REQUIRED
-	1	-	-	-	-	-	-	-	-
-	2	-	-	-	-	-	-	-	-
-	3	-	-	-	-	-	-	-	-
-	4	-	-	-	-	-	-	-	-
-	5	-	-	-	-	-	-	-	-
-	6	-	-	-	-	-	-	-	-
-	7	-	-	-	-	-	-	-	-
-	8	-	-	-	-	-	-	-	-
-	9	-	-	-	-	-	-	-	-
-	10	-	-	-	-	-	-	-	-
-	11	-	-	-	-	-	-	-	-
-	12	-	-	-	-	-	-	-	-
-	13	-	-	-	-	-	-	-	-
-	14	-	-	-	-	-	-	-	-
-	15	-	-	-	-	-	-	-	-
-	16	-	-	-	-	-	-	-	-
-	17	-	-	-	-	-	-	-	-
-	18	-	-	-	-	-	-	-	-
-	19	-	-	-	-	-	-	-	-
-	20	-	-	-	-	-	-	-	-
-	21	-	-	-	-	-	-	-	-
-	22	-	-	-	-	-	-	-	-
-	23	-	-	-	-	-	-	-	-
-	24	-	-	-	-	-	-	-	-
-	25	-	-	-	-	-	-	-	-
-	26	-	-	-	-	-	-	-	-
-	27	-	-	-	-	-	-	-	-
-	28	-	-	-	-	-	-	-	-
-	29	-	-	-	-	-	-	-	-
-	30	-	-	-	-	-	-	-	-
-	31	-	-	-	-	-	-	-	-
-	32	-	-	-	-	-	-	-	-
-	33	-	-	-	-	-	-	-	-
-	34	-	-	-	-	-	-	-	-

PLAN SHEET	TEST HOLE	DISTANCE (FEET)	(1) STATION & ROADWAY	OWNER	TYPE OF FACILITY	(2) ELEV. (FEET)	(3) CONFLICT YES/NO	(4) REMARKS	(5) UTILITY ADJUSTMENT REQUIRED
-	35	-	-	-	-	-	-	-	-
-	36	-	-	-	-	-	-	-	-
-	37	-	-	-	-	-	-	-	-
-	38	-	-	-	-	-	-	-	-
-	39	-	-	-	-	-	-	-	-
-	40	-	-	-	-	-	-	-	-
-	41	-	-	-	-	-	-	-	-
-	42	-	-	-	-	-	-	-	-
-	43	-	-	-	-	-	-	-	-
-	44	-	-	-	-	-	-	-	-
-	45	-	-	-	-	-	-	-	-

UTILITY OWNERS

1. NORTHERN VIRGINIA ELECTRIC COOP.
   14500 Minnieville Road
   Woodbridge, VA 22193
   (703) 392-1519
2. PWC SERVICE AUTHORITY
   4 County Complex Court
   Woodbridge. VA 22195
   Maureen Knight
   (703) 335-7930
3. COMCAST
   324 W. Main Street
   Charlottesville, VA
   Doug Wright
   (434) 951-3834
4. VERIZON
   9401 Peabody Street
   Manassas, VA 20110
   William (Bill) Lacy
   (703) 389-9571
5. SUMMIT IG
   22375 Broadrick Drive, Ste. 165
   Dulles, VA 20166
   (703) 443-1956
6. FIBERLIGHT, LLC
   950 Herndon Parkway, Ste. 250
   Herndon, VA 20170
   Kari Strootman
   (410) 979-0384
7. ZAYO COMMUNICATIONS
   13861 Sunrise Valley Drive, Ste. 450
   Herndon, VA 20171
   Kris Kobylski
   (571) 220-4813
8. METRO DUCT SYSTEMS OF VIRGINIA
   Christopher Hurt
   (703) 479-0305
9. WASHINGTON GAS
   6801 Industrial Road
   Springfield, VA
   Maps Administrator
   (703) 750-4745

LEGEND:

W

T/Tg Duct

SFM

G

NOTES:

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

VDOT PROJECT NO.	SHEET NO.
0621-076-265	IH

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P.H. PLANS

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Temporary Traffic Control General Notes

REVISED	STATE	STATE ROUTE	STATE VDOT PROJECT NO.	SHEET NO.
	VA.		0621-076-265 PE101 C501 RW201	1J

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 1A. The work zone areas have been delineated as shown on the TMP/SOC Sheet 1K through 1N series. The work zone lengths and widths vary by location as shown in these plans.

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).
Construction Area hours have the following limitations, unless otherwise approved or directed by the engineer and Prince William County:

One-lane closures will be restricted to the hours of 9:00am to 2:00pm, Monday through Friday, 10:00 pm to 9:00 am Friday to Saturday, 9:00 pm to 9:00 am Saturday to Sunday, and 10:00 pm to 5:00 am, Sunday to Monday.

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.

Designation of Night Time Hours and Peak Hour Times:
Night time hours shall be designated as hours between 9:30pm through 4:30am.
Peak hours are 6:00am through 9:00am & 2:00pm through 7:00pm.

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 six intersections within the project limits:
An unsignalized intersection of Balls Ford Road and Doane Drive at approximate station 112+00. This intersection shall remain operational for the duration of the project.
An unsignalized intersection of Balls Ford Road and Notes Drive/Century Park Drive at approximate station 121+00. This intersection shall remain operational for the duration of the project.
An unsignalized intersection of Balls Ford Road and Mason King Court at approximate station 131+50. This intersection shall remain operational for the duration of the project.
An unsignalized intersection of Balls Ford Road and Bethlehem Road/Old Compton Road at approximate station 140+00. This intersection shall remain operational for the duration of the project.
An unsignalized intersection of Balls Ford Road and Jacksonville Avenue at approximate station 149+00. This intersection shall remain operational for the duration of the project.
A Signalized intersection of Balls Ford Road and Ashton Avenue at approximate station 170+50. 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 Doane Drive and cross walks at the signalized intersection with Ashton Avenue. These crosswalks are to be maintained throughout construction. The contractor shall ensure safe access to pedestrians.

Existing Bus Stops:
There are no bus stops within the project limits.

f Identify the major types of travelers:
The roadway carries diverse types of travelers. In the peak hours however, daily commuters and truck traffic are the prevailing traveler types 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 Balls Ford 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) 48 hours in advance in order to place lane closure information on the 511 system and VA-Traffic.

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.

CONTACT NUMBERS

Project Manager	Mary Ankers	(703) 792-4228
Construction Manager	TBD	TBD
Construction Safety Manager	TBD	TBD
Public Relations	TBD	TBD
VDOT Residency Administrator - Construction	TBD	TBD
District Work Zone Safety Coordinator(s)	TBD	TBD
	TBD	TBD
Emergency Call		TBD
Non-Emergency Numbers:		
Police		(703) 792-6500
Fire & Rescue		(703) 792-6800

TMP/SOC Designer:
Matthew Beales
Advance Work Zone Traffic Contol Training, VDOT Certificate No. 020218770, Expires 2-28-2022

Commonwealth of Virginia
Virginia Department of Transportation
VDOT

VERIFICATION OF COMPLETION OF
ADVANCE WORK ZONE TRAFFIC CONTROL TRAINING

This is to verify that **Matthew A. Beales** has successfully completed training and an examination by the Department on the proper practices and methods for the installation, maintenance and removal of temporary traffic control devices.

Date: 2/2/2018

State Traffic Engineer

Verification No. : 020218770

Expiration Date: 2/28/2022

VDOT PROJECT NO.	SHEET NO.
0621-076-265	1J

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Richmond: 4309 Emperor Boulevard, Suite 110, Richmond, VA 23230, Phone: (804) 285-8150, Fax: (804) 285-8151
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www.rinkerdesign.com

NOVA DISTRICT

3/25/2019

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Richmond: 4309 Discovery Boulevard, Suite 2, Richmond, VA 23230, Phone: (804) 673-1000, Fax: (804) 673-1001
Washington: 1140 Connecticut Avenue, NW, Suite 1100, Washington, DC 20036, Phone: (202) 223-3040, Fax: (202) 223-3041
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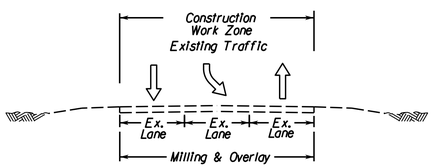
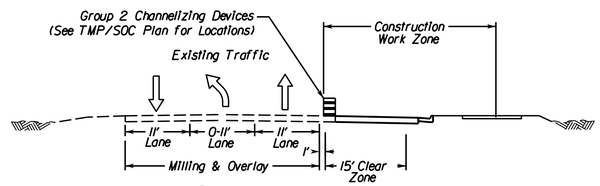
Rinker Design Assoc., P.C.
Fredericksburg, Virginia
(Roadway)

PHASE 1
Posted Speed: 45 mph
(Not To Scale)



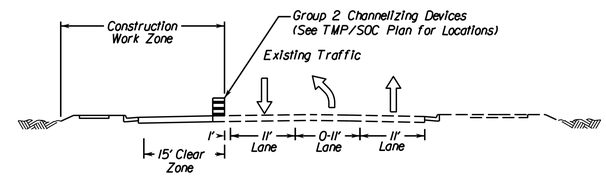
Phase 1
Balls Ford Road (Route 621)
Station 111+25 to Station 169+75

PHASE 2
Posted Speed: 45 mph
(Not To Scale)



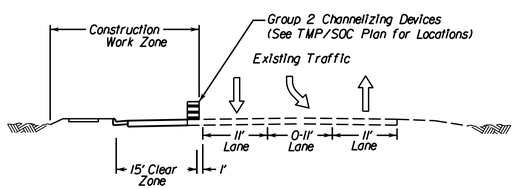
Phase 1
Balls Ford Road (Route 621)
Station 157+00 to Station 169+75

PHASE 3
Posted Speed: 45 mph
(Not To Scale)



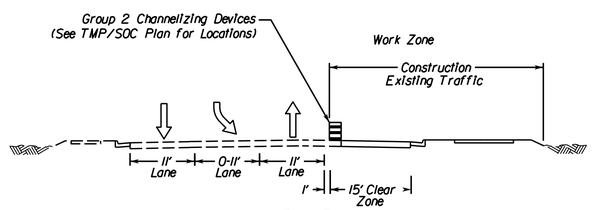
Phase 3
Balls Ford Road (Route 621)
Station 157+00 to Station 169+75

PHASE 2
Posted Speed: 45 mph
(Not To Scale)



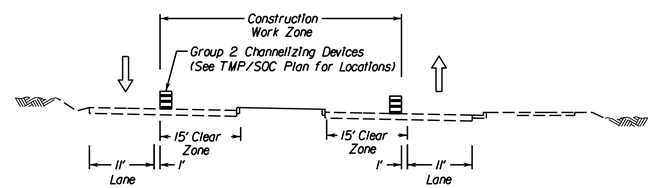
Phase 2
Balls Ford Road (Route 621)
Station 111+25 to Station 157+00

PHASE 3
Posted Speed: 45 mph
(Not To Scale)



Phase 3
Balls Ford Road (Route 621)
Station 111+25 to Station 157+00

PHASE 4
Posted Speed: 45 mph
(Not To Scale)



Phase 4
Balls Ford Road (Route 621)
Station 111+25 to Station 169+75

VDOT PROJECT NO.	SHEET NO.
0621-076-265	1J(1)

ADDITIONAL EASEMENTS FOR UTILITY RELOCATIONS MAY BE REQUIRED BEYOND THE PROPOSED RIGHT-OF-WAY SHOWN ON THESE PLANS

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

P.H. PLANS

3/25/2019

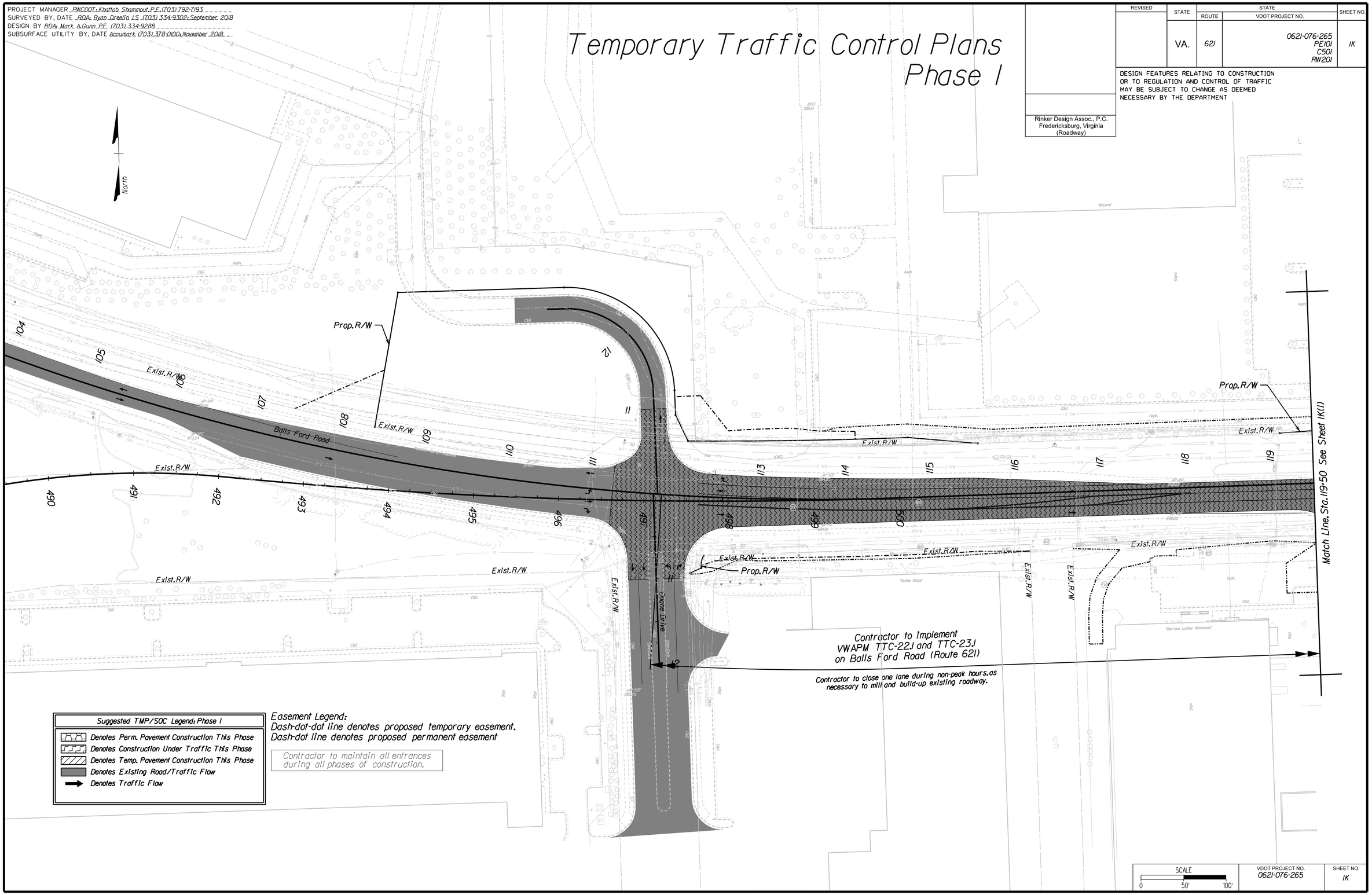
PROJECT MANAGER PWCDOT: Khattab Shammout, P.E. (703) 792-7193
SURVEYED BY, DATE RDA: Ryan Dreella LS (703) 334-9302: September 2018
DESIGN BY RDA: Mark A. Gunn, P.E. (703) 334-9288
SUBSURFACE UTILITY BY, DATE Accumark (703) 378-0100: November 2018

Temporary Traffic Control Plans
Phase I

REVISED	STATE	ROUTE	VDOT PROJECT NO.	SHEET NO.
	VA.	621	0621-076-265 PE101 C501 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)



VDOT PROJECT NO.	SHEET NO.
0621-076-265	IK

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P.H. PLANS

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Temporary Traffic Control Plans
Phase I

REVISED	STATE	ROUTE	VDOT PROJECT NO.	SHEET NO.
	VA.	621	0621-076-265 PE101 C501 RW201	IK(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.
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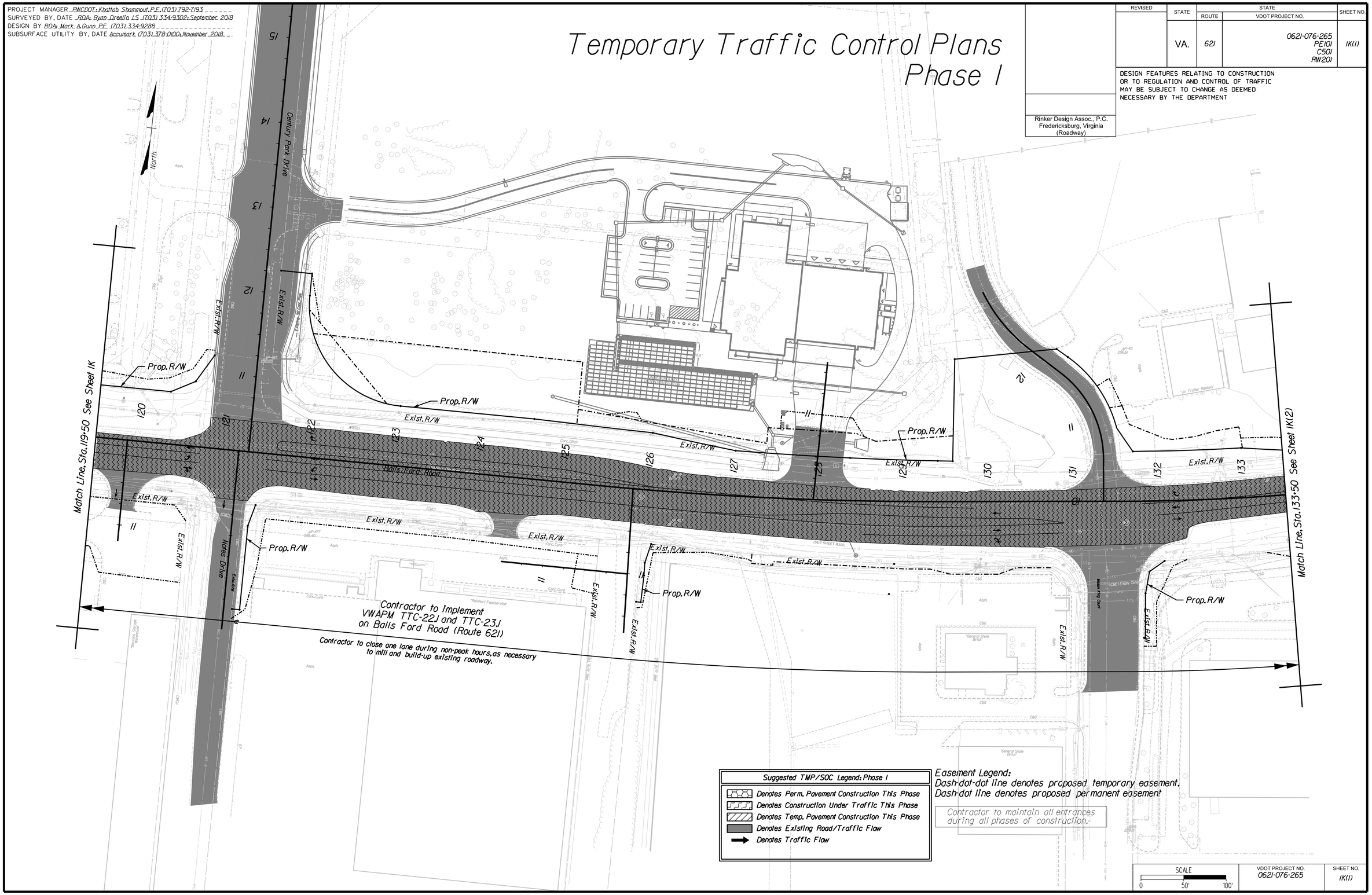

SCALE	VDOT PROJECT NO.	SHEET NO.
0 50' 100'	0621-076-265	IK(1)

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Temporary Traffic Conrol Plans Phase I

REVISED	STATE	ROUTE	STATE VDOT PROJECT NO.	SHEET NO.
	VA.	621	0621-076-265 PE101 C501 RW201	IK(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.
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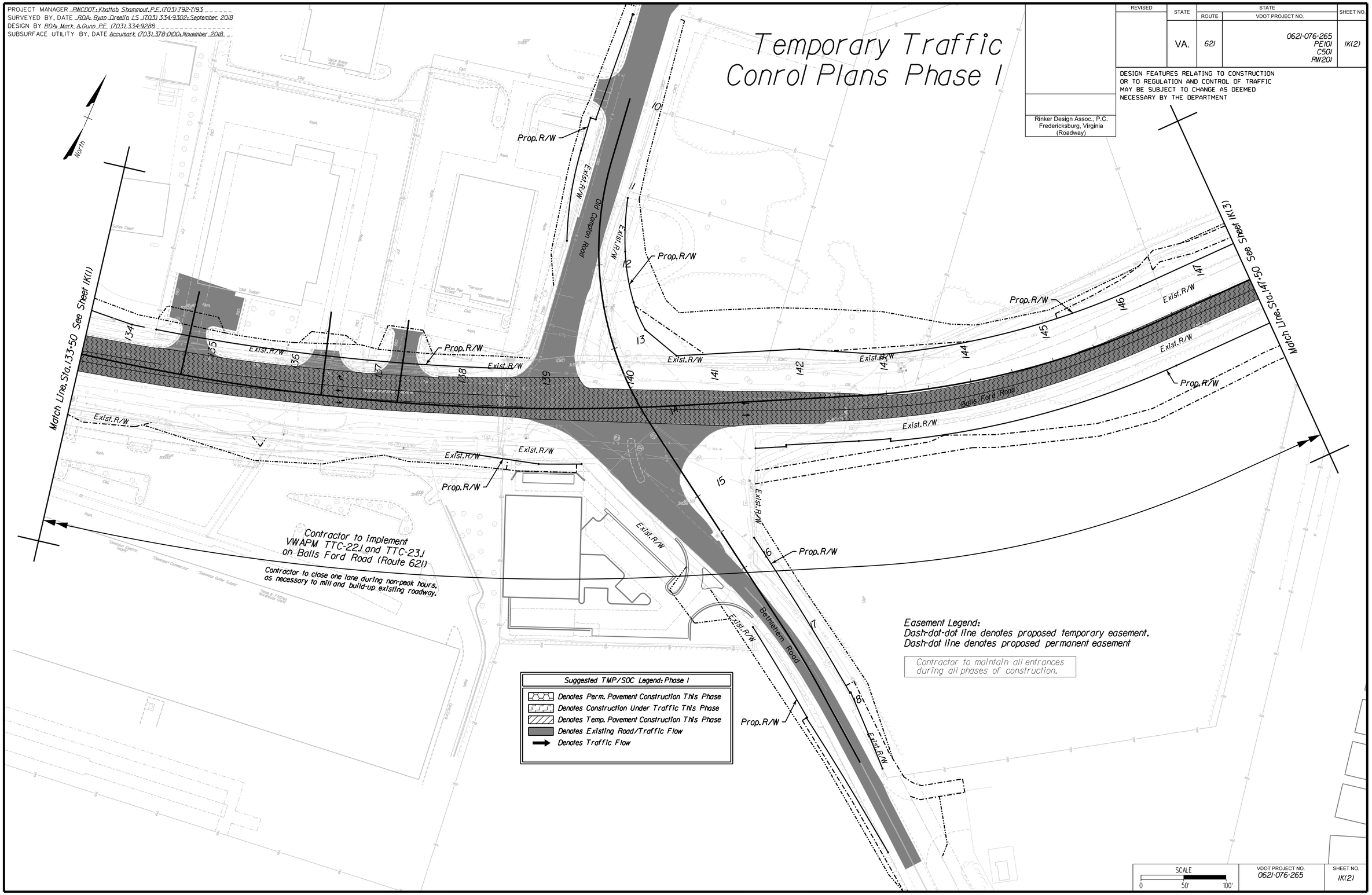
(Roadway)



SCALE	VDOT PROJECT NO.	SHEET NO.
0 50' 100'	0621-076-265	IK(2)

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Richmond, VA 23219 Phone: (804) 225-8000 Fax: (804) 225-8011

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Temporary Traffic Control Plans
Phase I

REVISED	STATE	ROUTE	VDOT PROJECT NO.	SHEET NO.
	VA.	621	0621-076-265 PE101 C501 RW201	IK(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
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Fax: (703) 834-0311

Richmond, VA 23219
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Fax: (804) 225-8177

NOVA DISTRICT

North

Suggested TMP/SOC Legend: Phase I

- Denotes Perm. Pavement Construction This Phase
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Easement Legend:
Dash-dot-dot line denotes proposed temporary easement.
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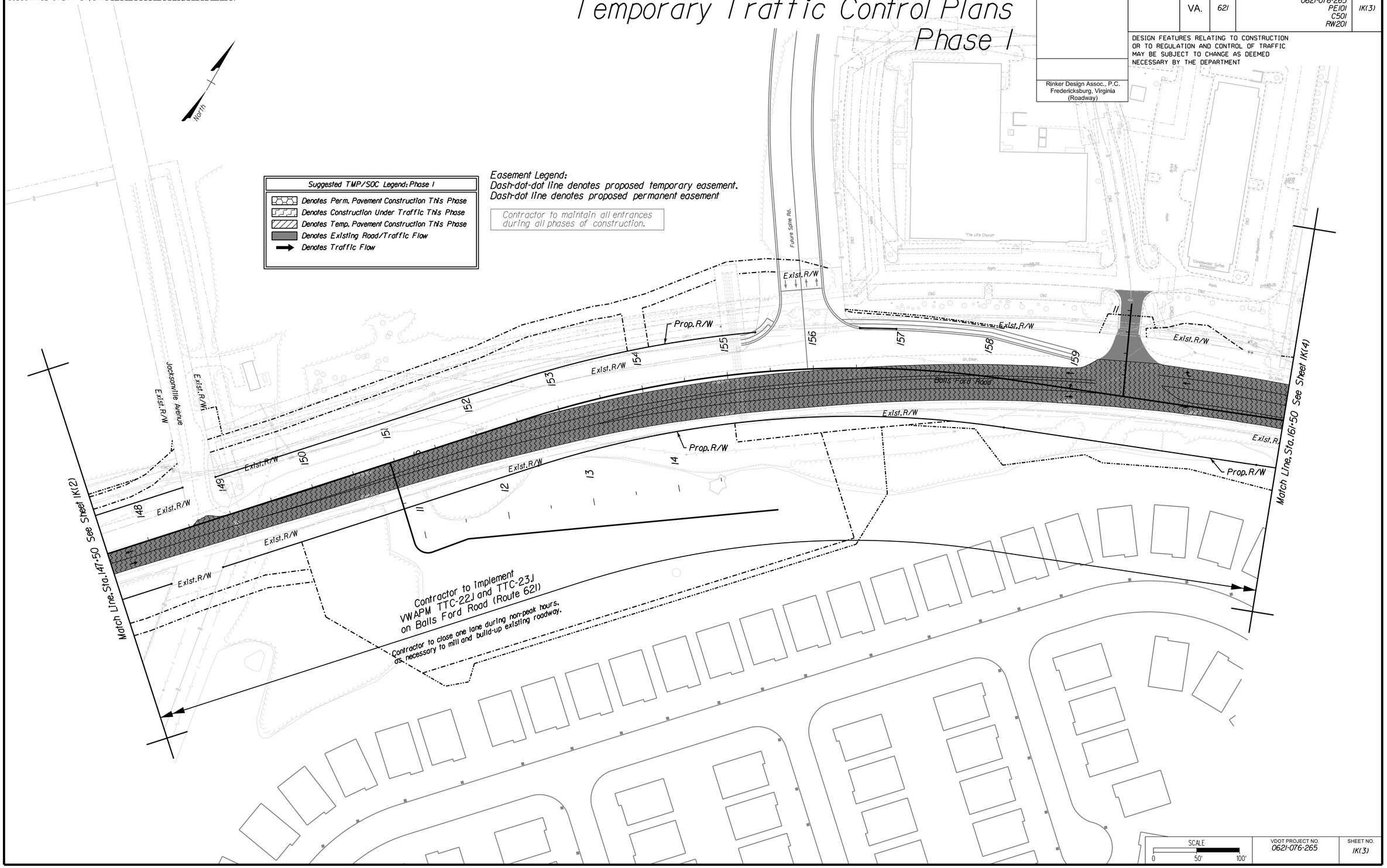
Contractor to maintain all entrances during all phases of construction.



SCALE 0 50' 100'

VDOT PROJECT NO.	SHEET NO.
0621-076-265	IK(3)

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P.H. PLANS

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Temporary Traffic Control Plans
Phase I

REVISED	STATE	STATE ROUTE	STATE VDOT PROJECT NO.	SHEET NO.
	VA.	621	0621-076-265 PE101 C501 RW201	IK(4)

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

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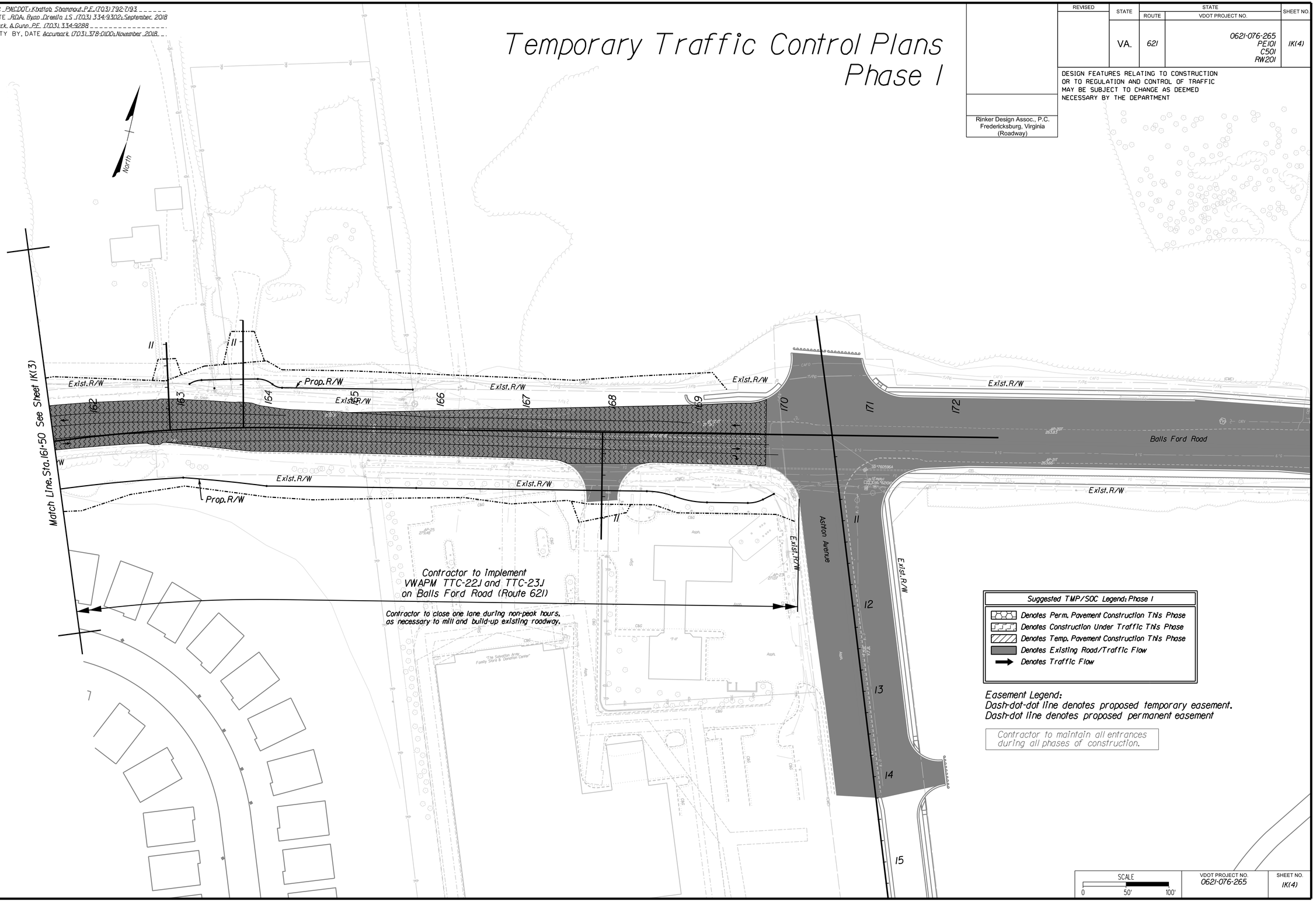

SCALE	VDOT PROJECT NO.	SHEET NO.
0 50' 100'	0621-076-265	IK(4)

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8101 Sudley Road Suite 200 Manassas, VA 20109 Phone: (703) 334-9302 Fax: (703) 334-9307
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Temporary Traffic Control Plans
Phase 2

REVISED	STATE	ROUTE	VDOT PROJECT NO.	SHEET NO.
	VA.	621	0621-076-265 PE101 C501 RW201	IL

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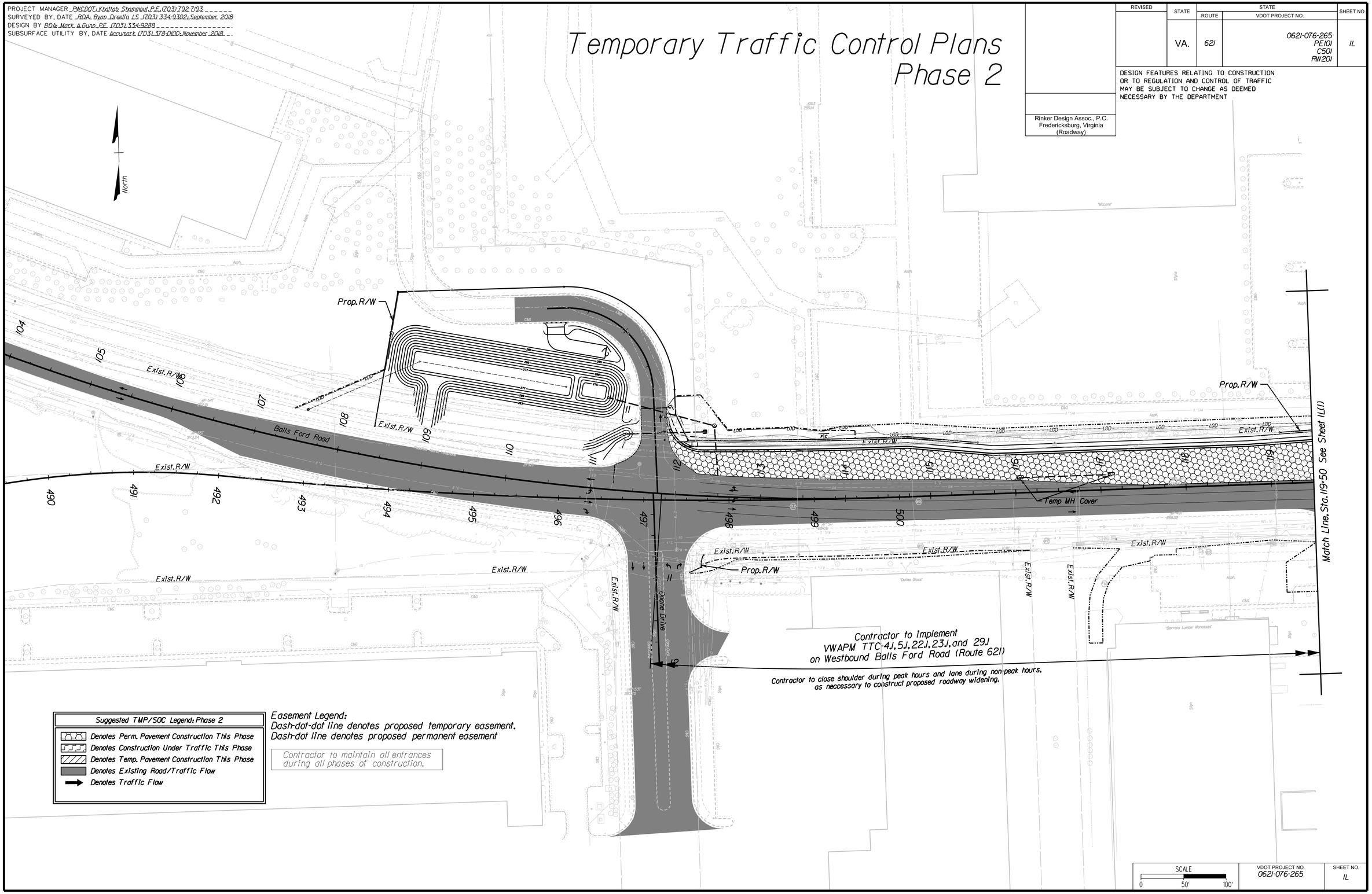

SCALE	VDOT PROJECT NO.	SHEET NO.
0 50' 100'	0621-076-265	IL

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NOVA DISTRICT

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Temporary Traffic Control Plans
Phase 2

REVISED	STATE	ROUTE	STATE VDOT PROJECT NO.	SHEET NO.
	VA.	621	0621-076-265 PE101 C501 RW201	IL(1)

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

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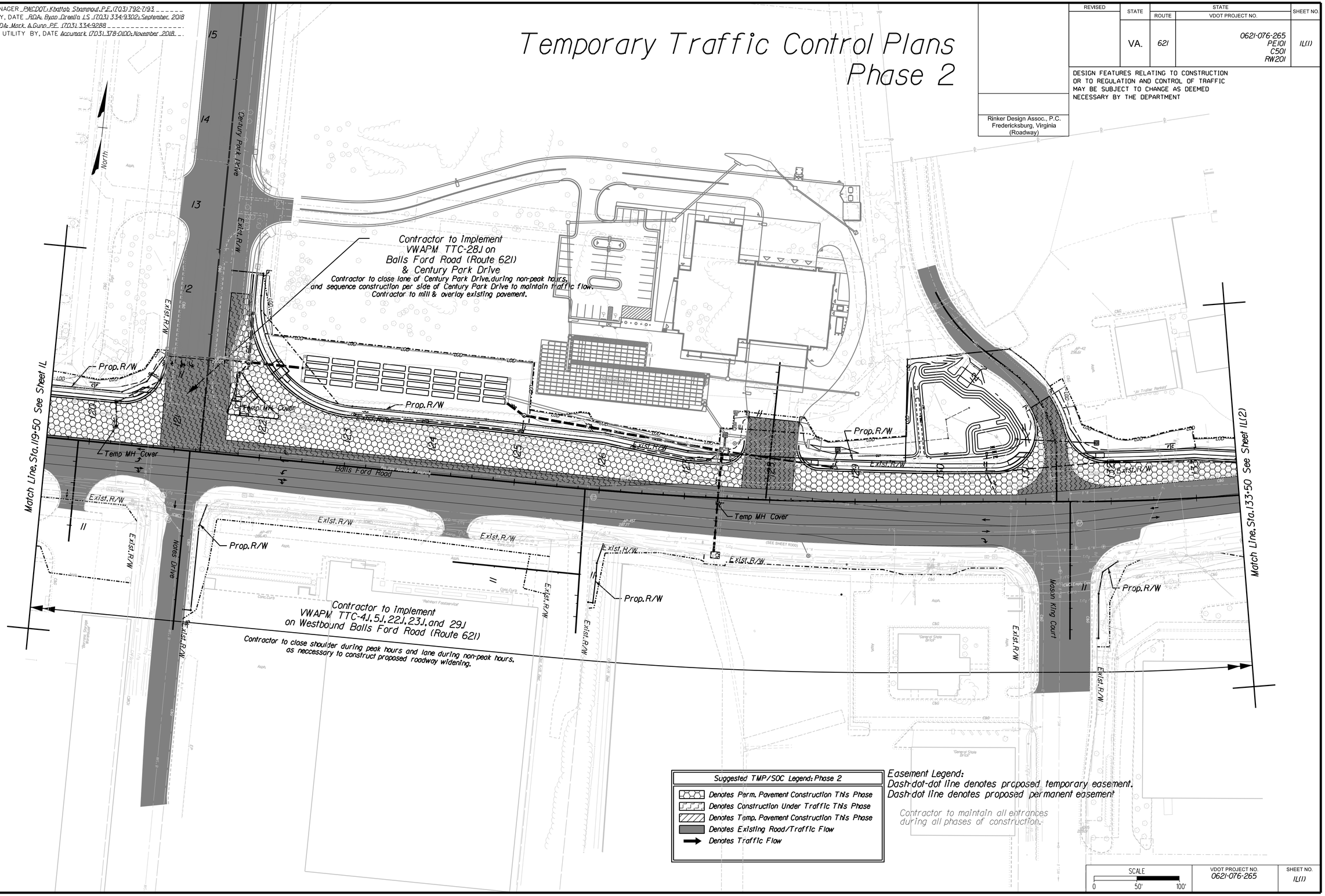

SCALE	VDOT PROJECT NO.	SHEET NO.
0 50' 100'	0621-076-265	IL(1)

ADDITIONAL EASEMENTS FOR UTILITY RELOCATIONS MAY BE REQUIRED BEYOND THE PROPOSED RIGHT-OF-WAY SHOWN ON THESE PLANS

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Temporary Traffic Control Plans Phase 2

REVISED	STATE	ROUTE	VDOT PROJECT NO.	SHEET NO.
	VA.	621	0621-076-265 PE101 C501 RW201	IL(2)

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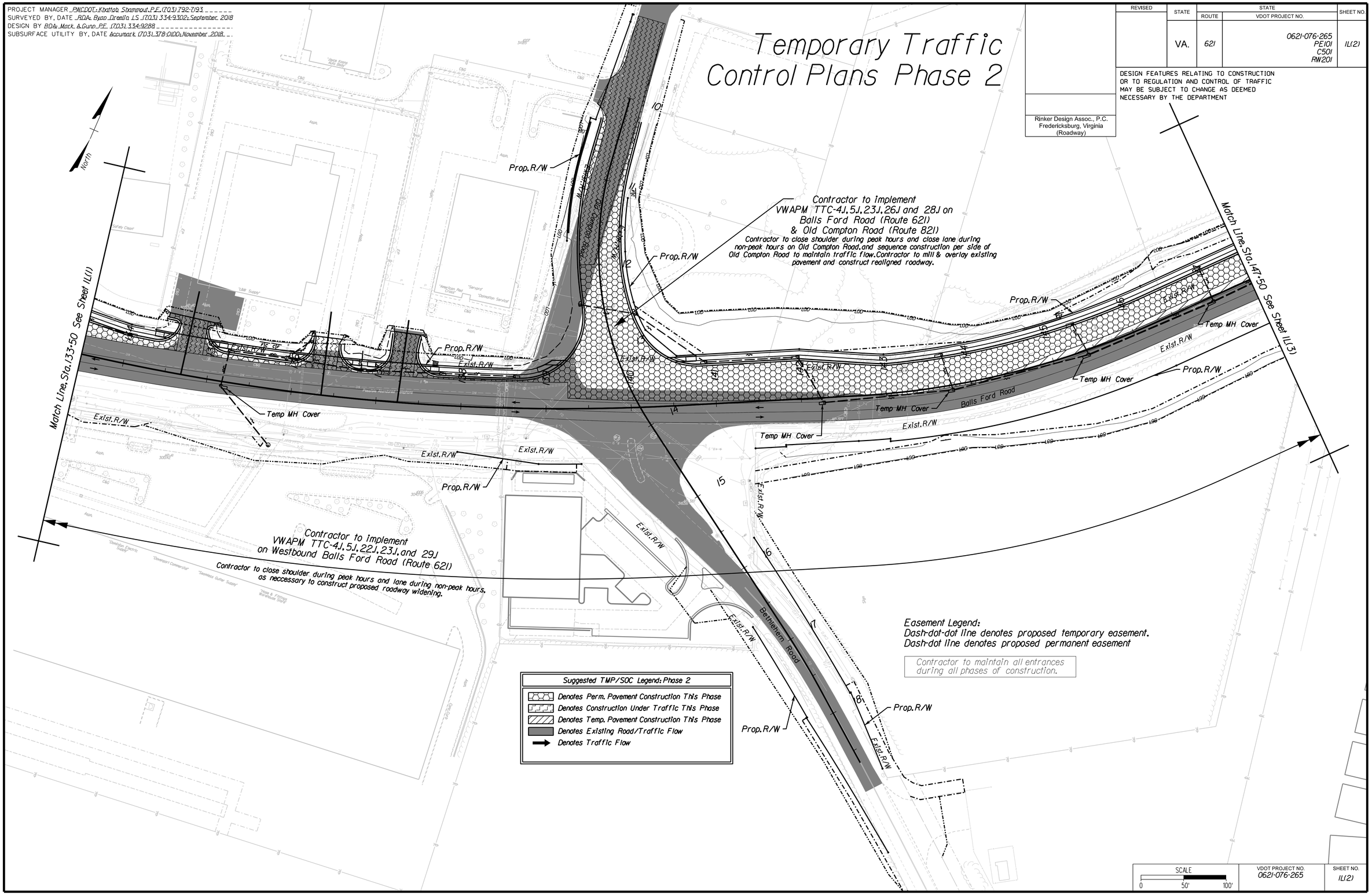

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NOVA DISTRICT

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Temporary Traffic Control Plans Phase 2

REVISED	STATE	ROUTE	STATE VDOT PROJECT NO.	SHEET NO.
	VA.	621	0621-076-265 PE101 C501 RW201	IL(3)

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- Denotes Perm. Pavement Construction This Phase
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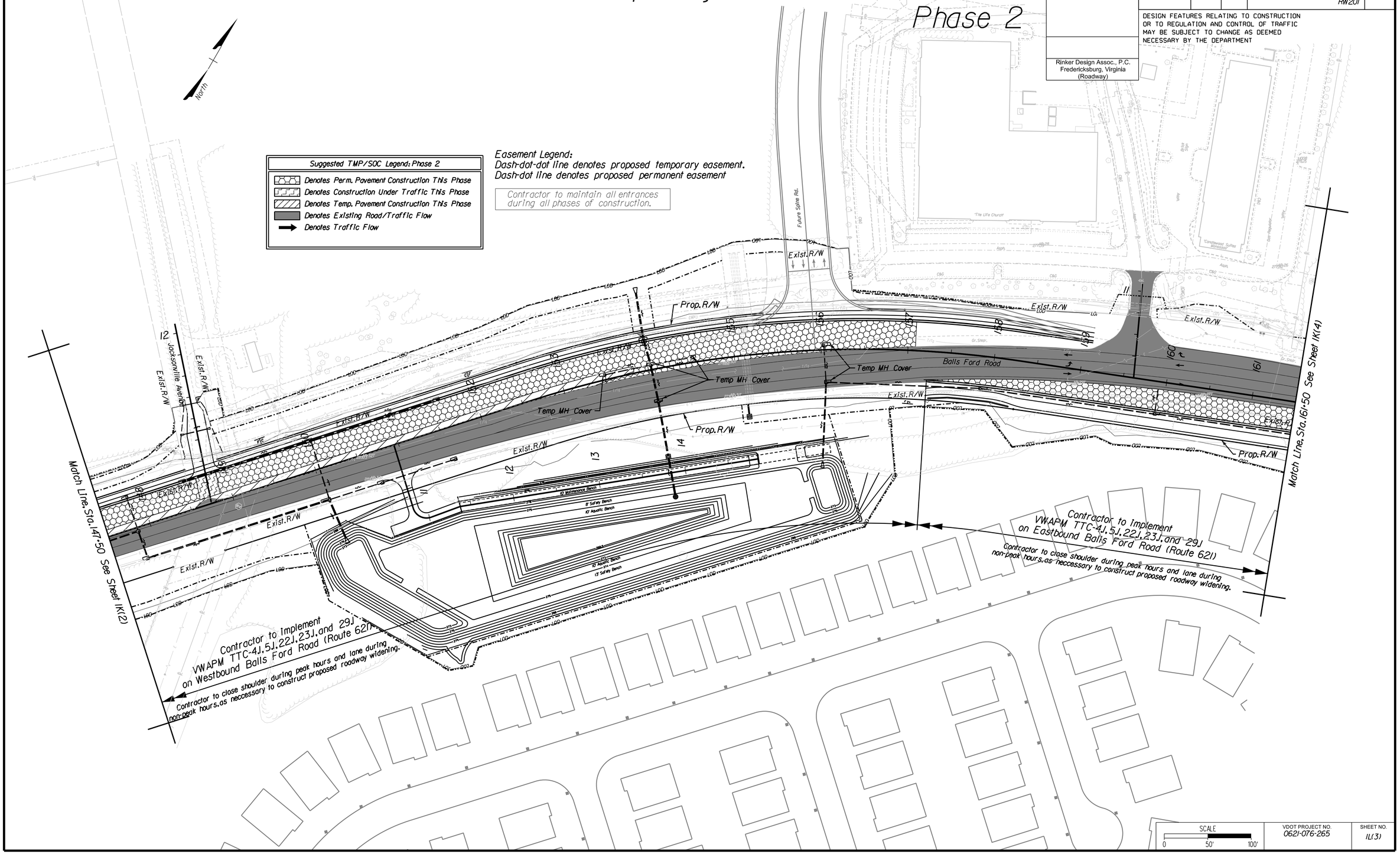

SCALE 0 50' 100'

VDOT PROJECT NO.	SHEET NO.
0621-076-265	IL(3)

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Temporary Traffic Control Plans
Phase 2

REVISED	STATE	STATE ROUTE	STATE VDOT PROJECT NO.	SHEET NO.
	VA.	621	0621-076-265 PE101 C501 RW201	IL(4)

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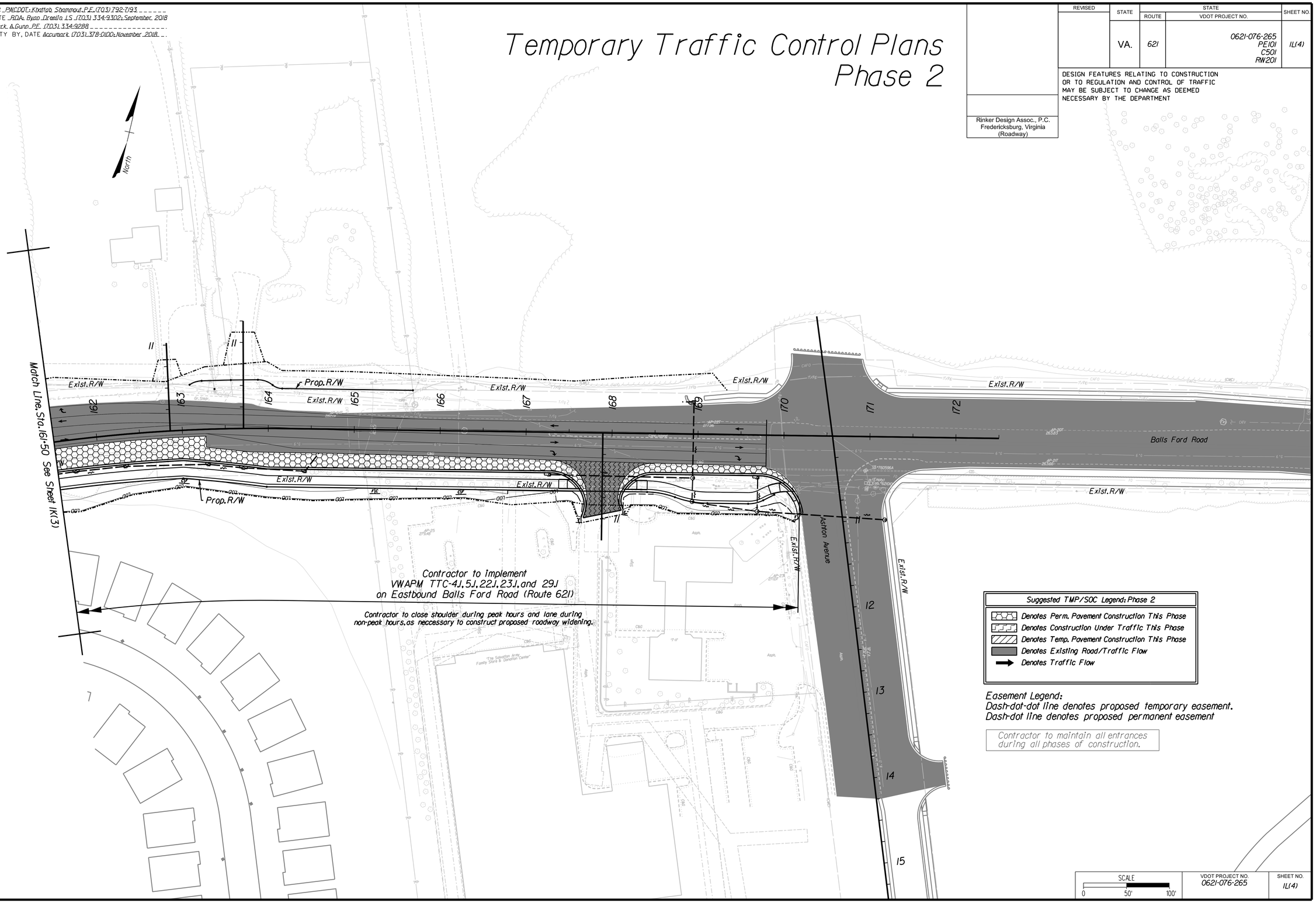

SCALE	VDOT PROJECT NO.	SHEET NO.
0 50' 100'	0621-076-265	IL(4)

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SUBSURFACE UTILITY BY, DATE Accumark (703) 378-0100: November 2018

Temporary Traffic Control Plans
Phase 3

REVISED	STATE	ROUTE	VDOT PROJECT NO.	SHEET NO.
	VA.	621	0621-076-265 PE101 C501 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

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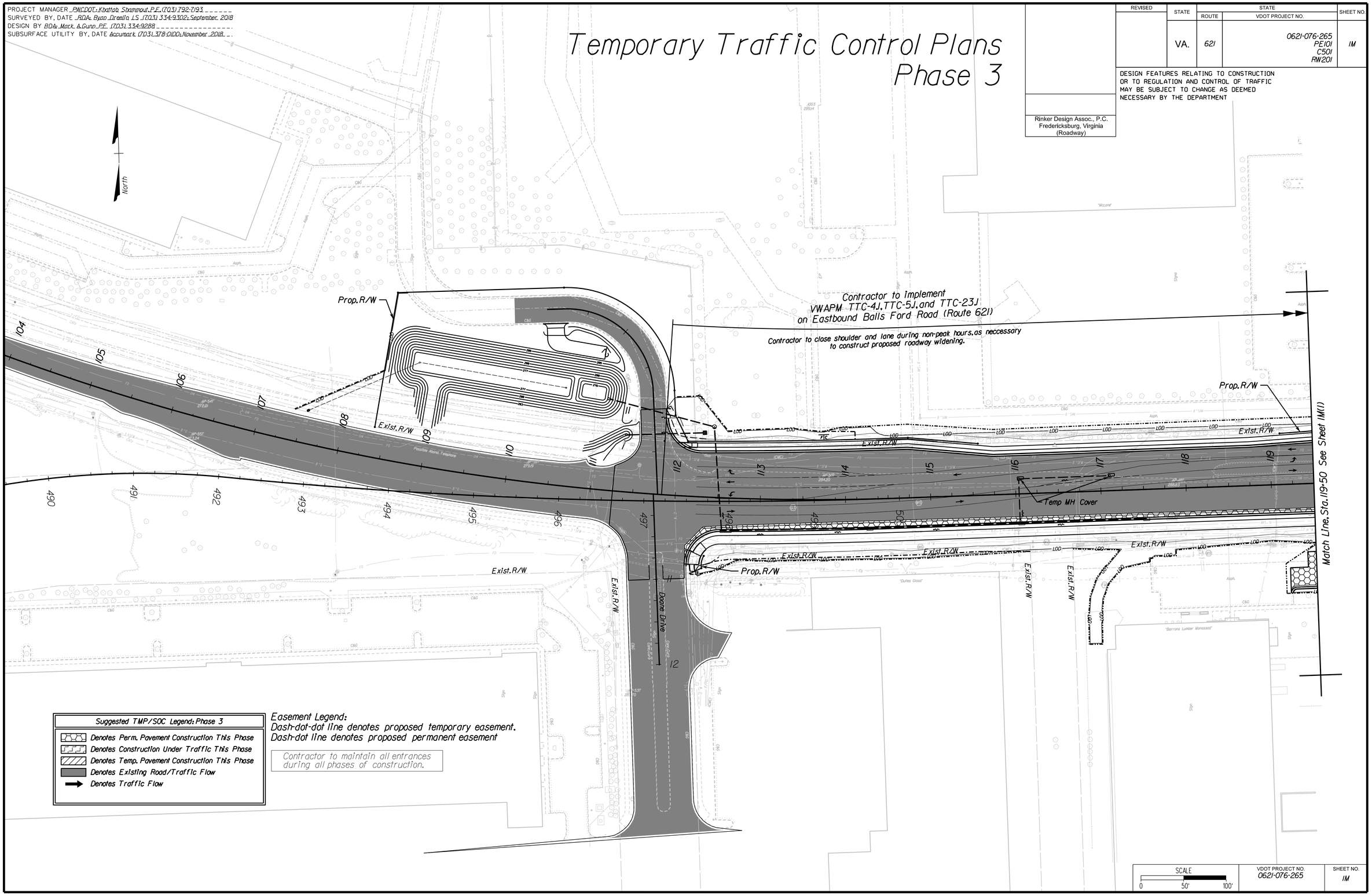
(Roadway)



SCALE	VDOT PROJECT NO.	SHEET NO.
0 50' 100'	0621-076-265	IM

ADDITIONAL EASEMENTS FOR UTILITY RELOCATIONS MAY BE REQUIRED BEYOND THE PROPOSED RIGHT-OF-WAY SHOWN ON THESE PLANS

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P.H. PLANS

NOVA DISTRICT

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Phase 3

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	VA.	621	0621-076-265 PE101 C501 RW201	IM(1)

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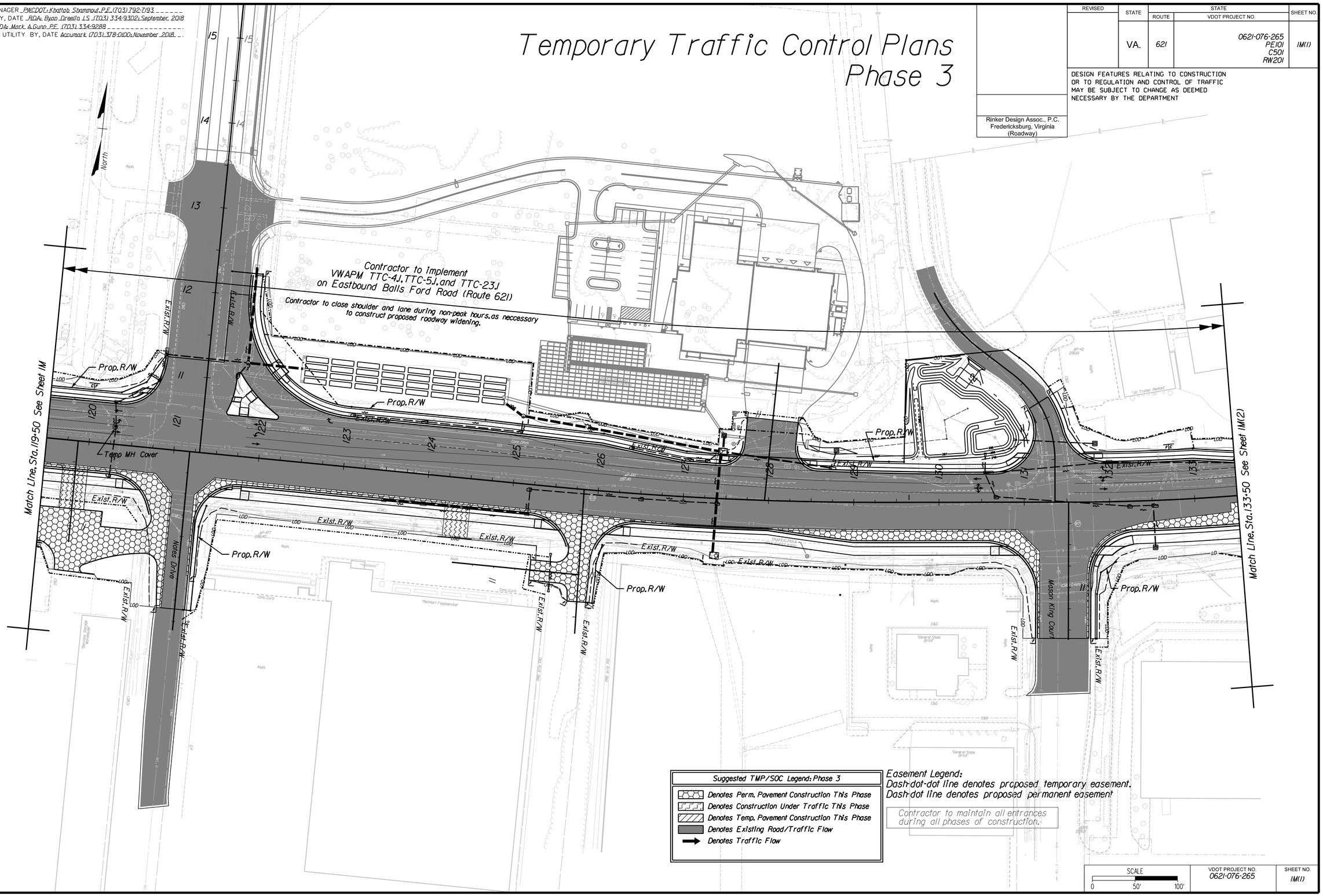

SCALE 0 50' 100'

VDOT PROJECT NO.	SHEET NO.
0621-076-265	IM(1)

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Temporary Traffic Control Plans Phase 3

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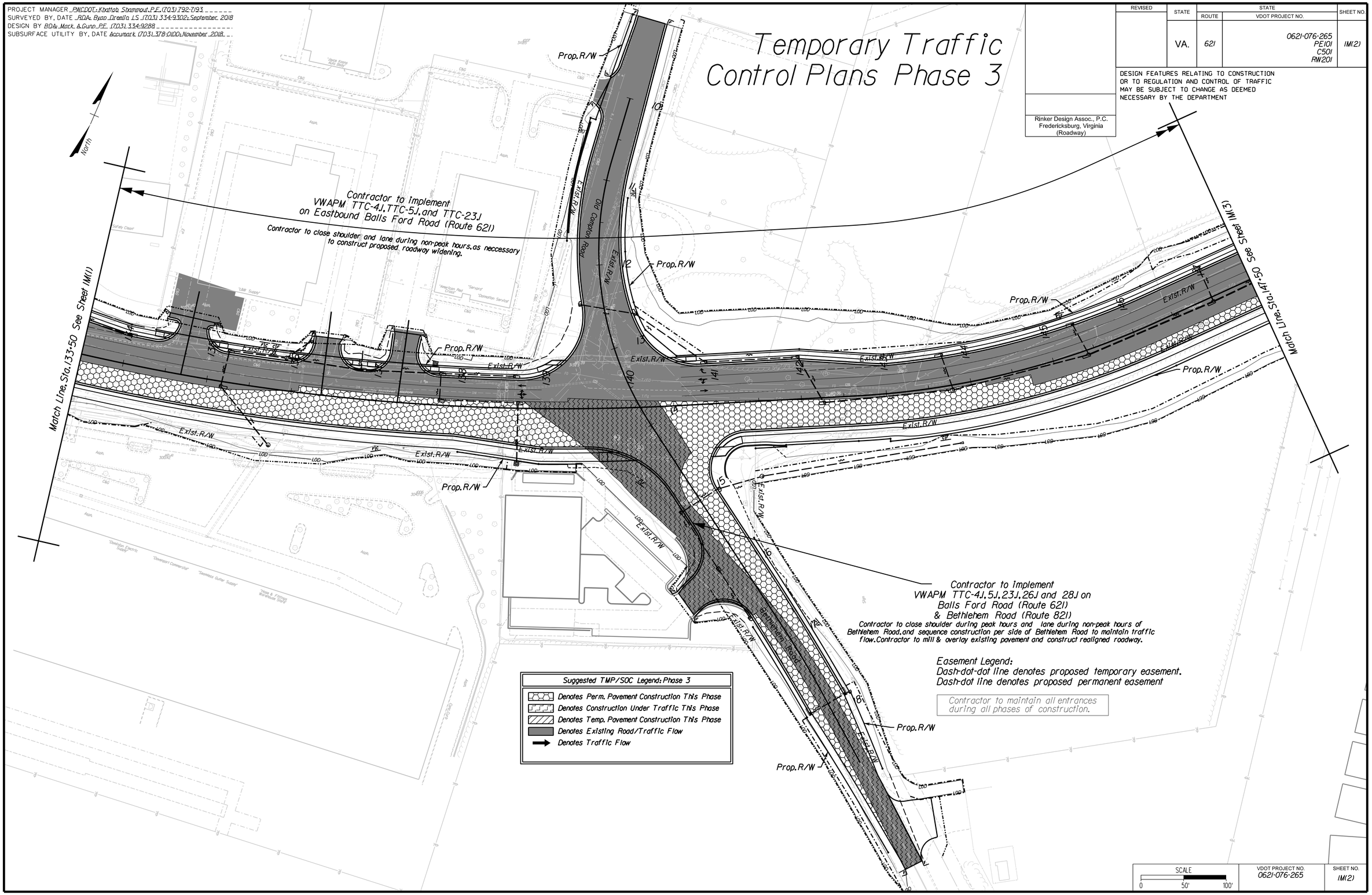

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Fax: (757) 423-1237
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Fax: (757) 499-8887
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Temporary Traffic Control Plans Phase 3

REVISED	STATE	ROUTE	STATE VDOT PROJECT NO.	SHEET NO.
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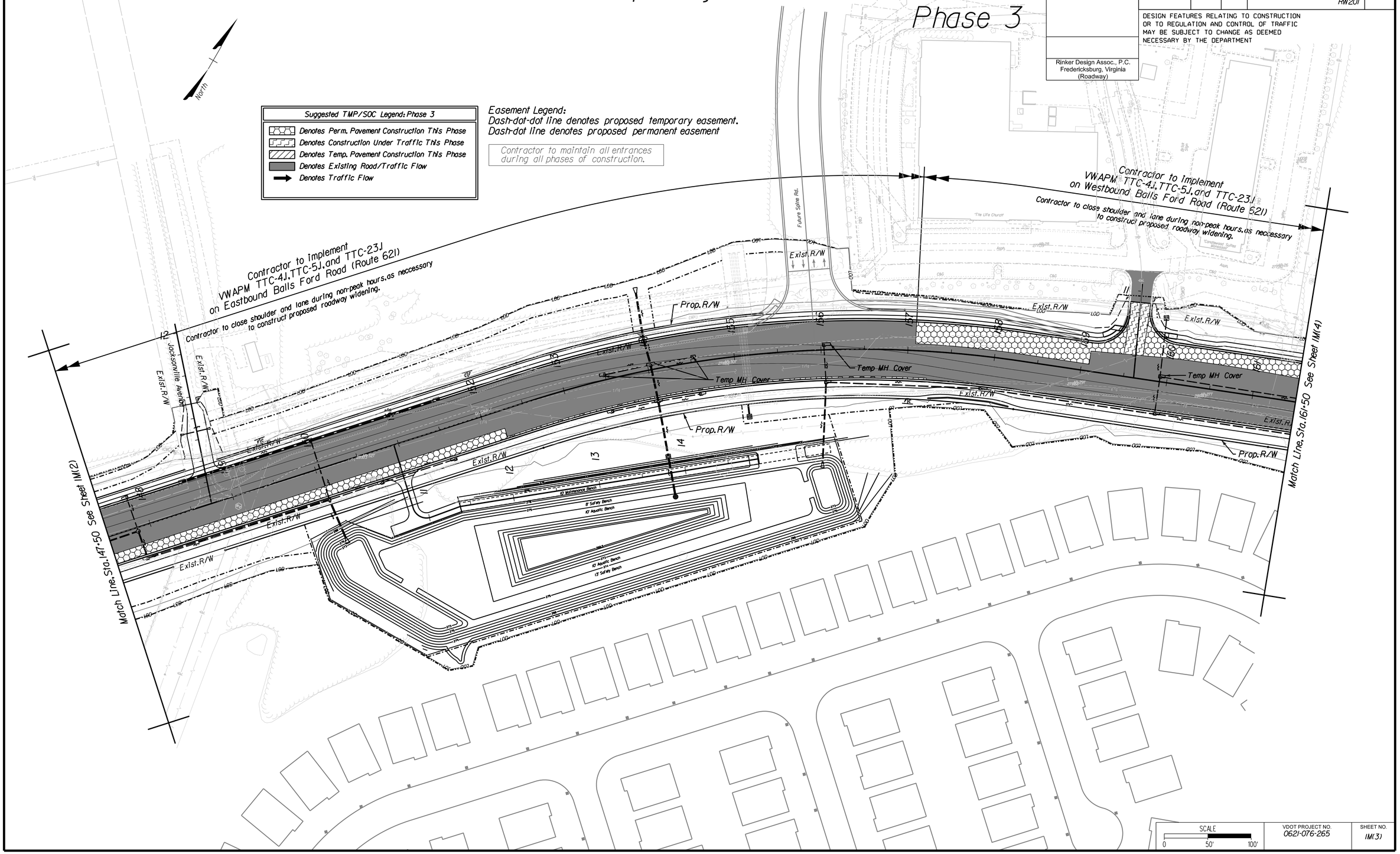

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Temporary Traffic Control Plans
Phase 3

REVISED	STATE	STATE ROUTE	STATE VDOT PROJECT NO.	SHEET NO.
	VA.	621	0621-076-265 PE101 C501 RW201	IM(4)

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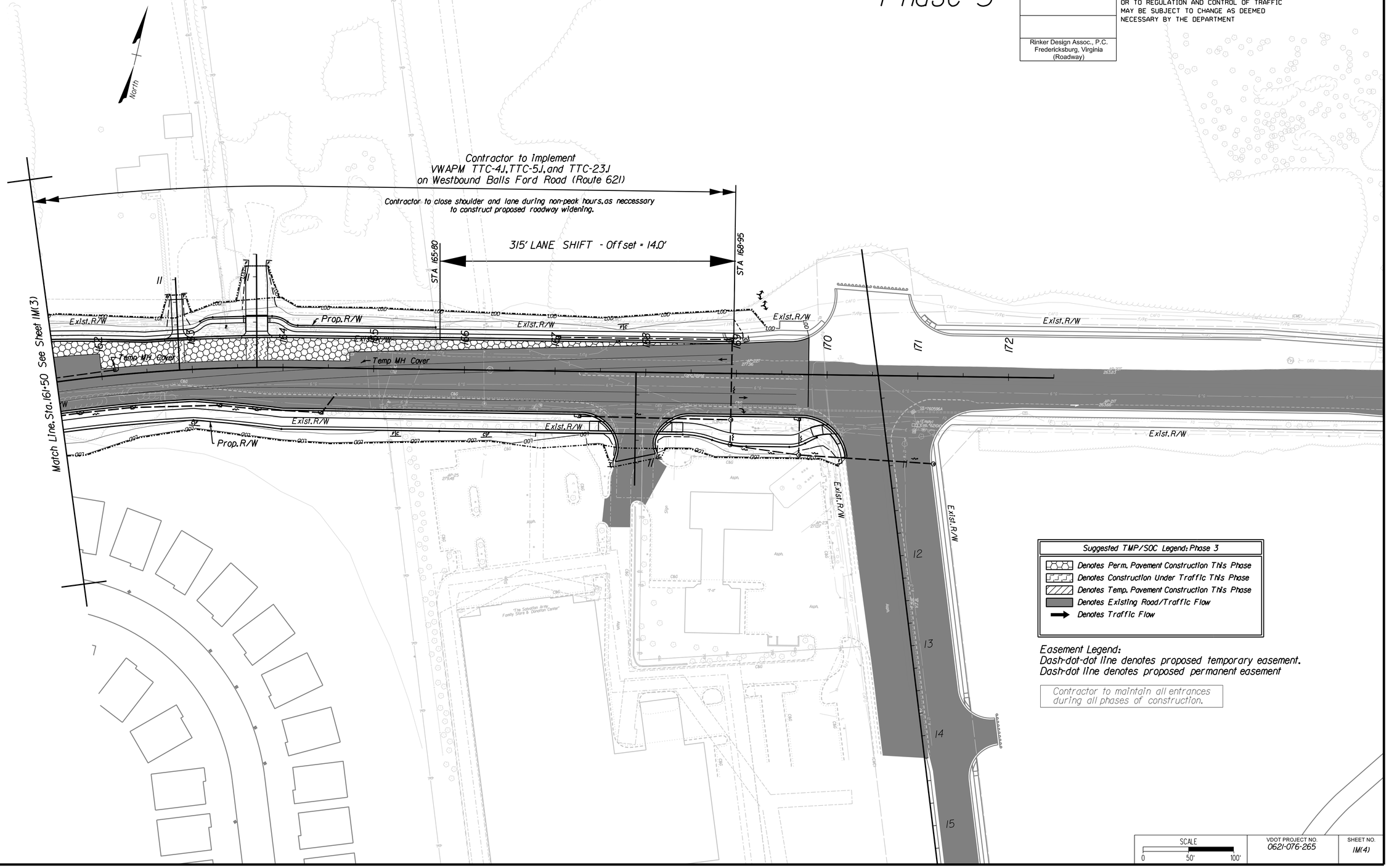

VDOT PROJECT NO.	SHEET NO.
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Temporary Traffic Control Plans
Phase 4

REVISED	STATE	ROUTE	VDOT PROJECT NO.	SHEET NO.
	VA.	621	0621-076-265 PE101 C501 RW201	IN

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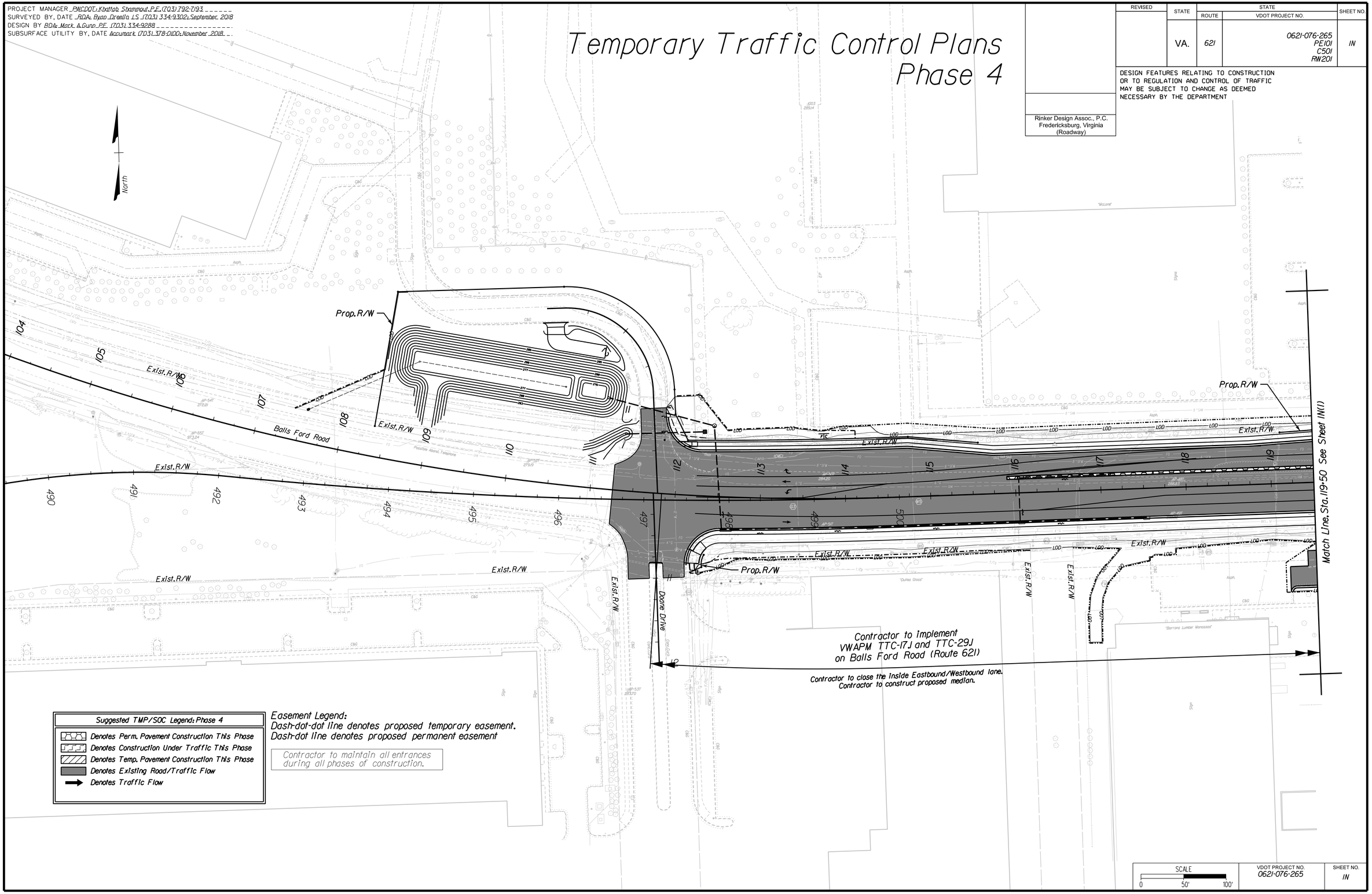

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Temporary Traffic Control Plans
Phase 4

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	VA.	621	0621-076-265 PE101 C501 RW201	IN(1)

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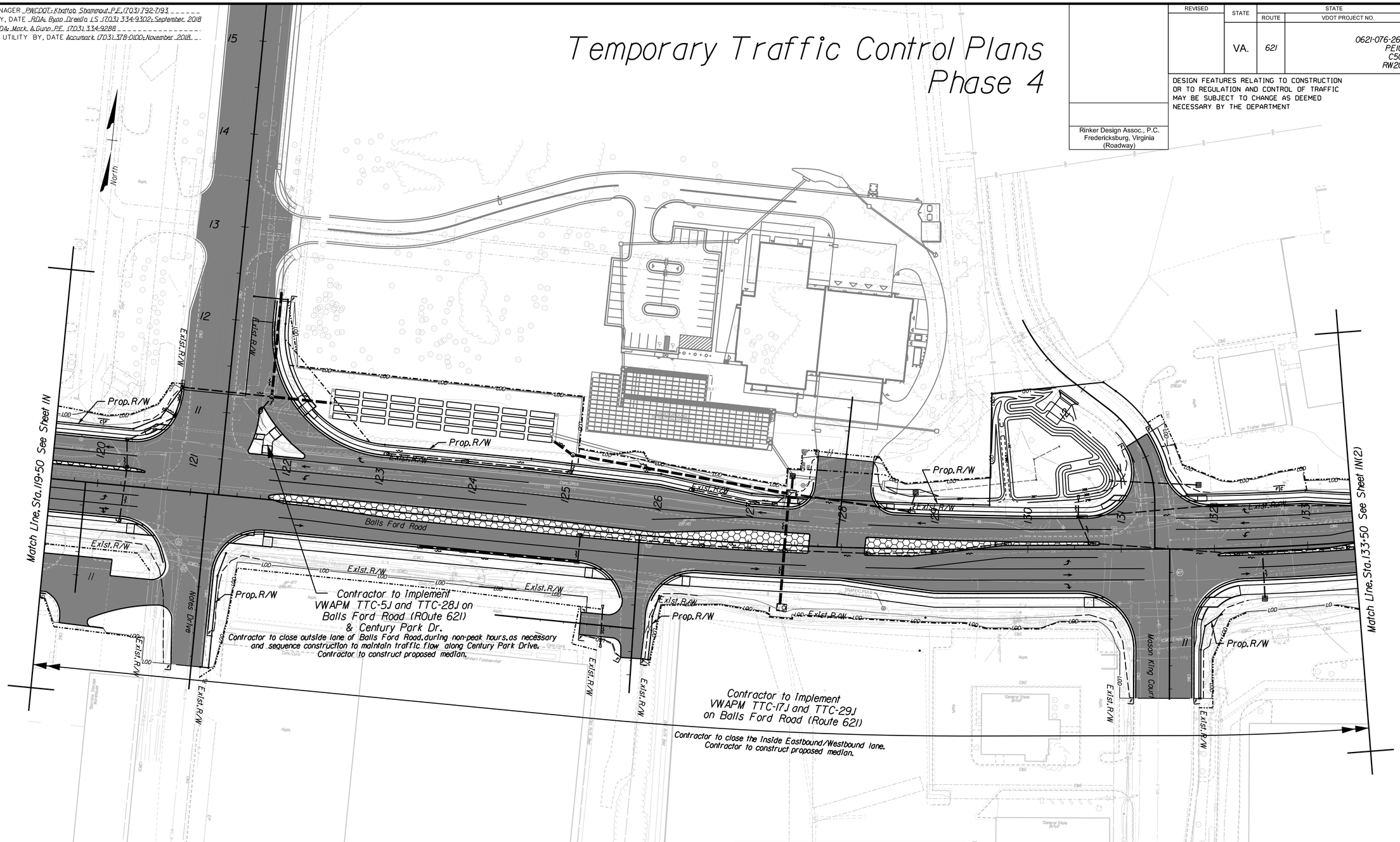

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SCALE	VDOT PROJECT NO.	SHEET NO.
0 50' 100'	0621-076-265	IN(1)

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Temporary Traffic Control Plans Phase 4

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	VA.	621	0621-076-265 PE101 C501 RW201	IN(2)

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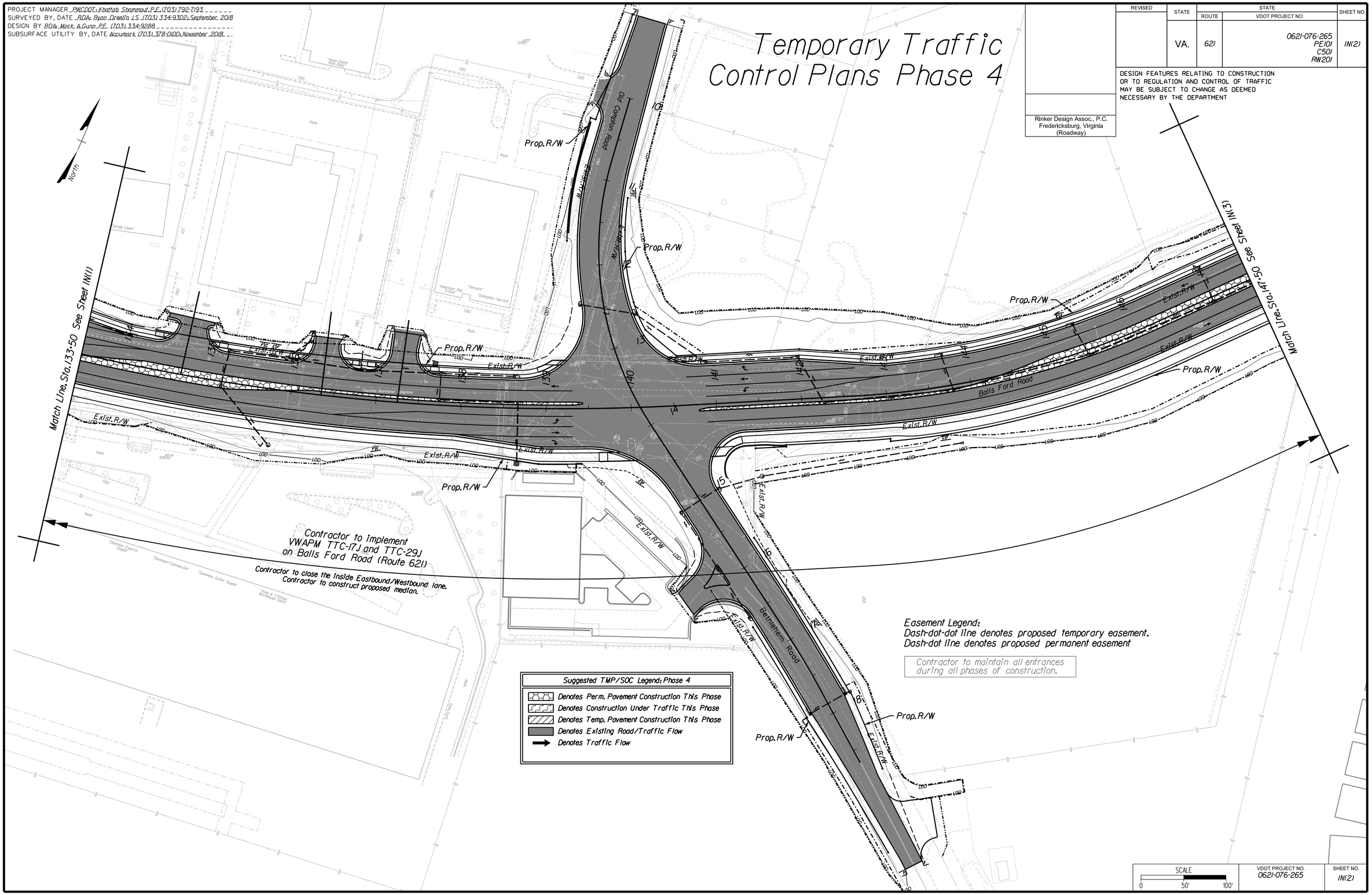

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Temporary Traffic Control Plans
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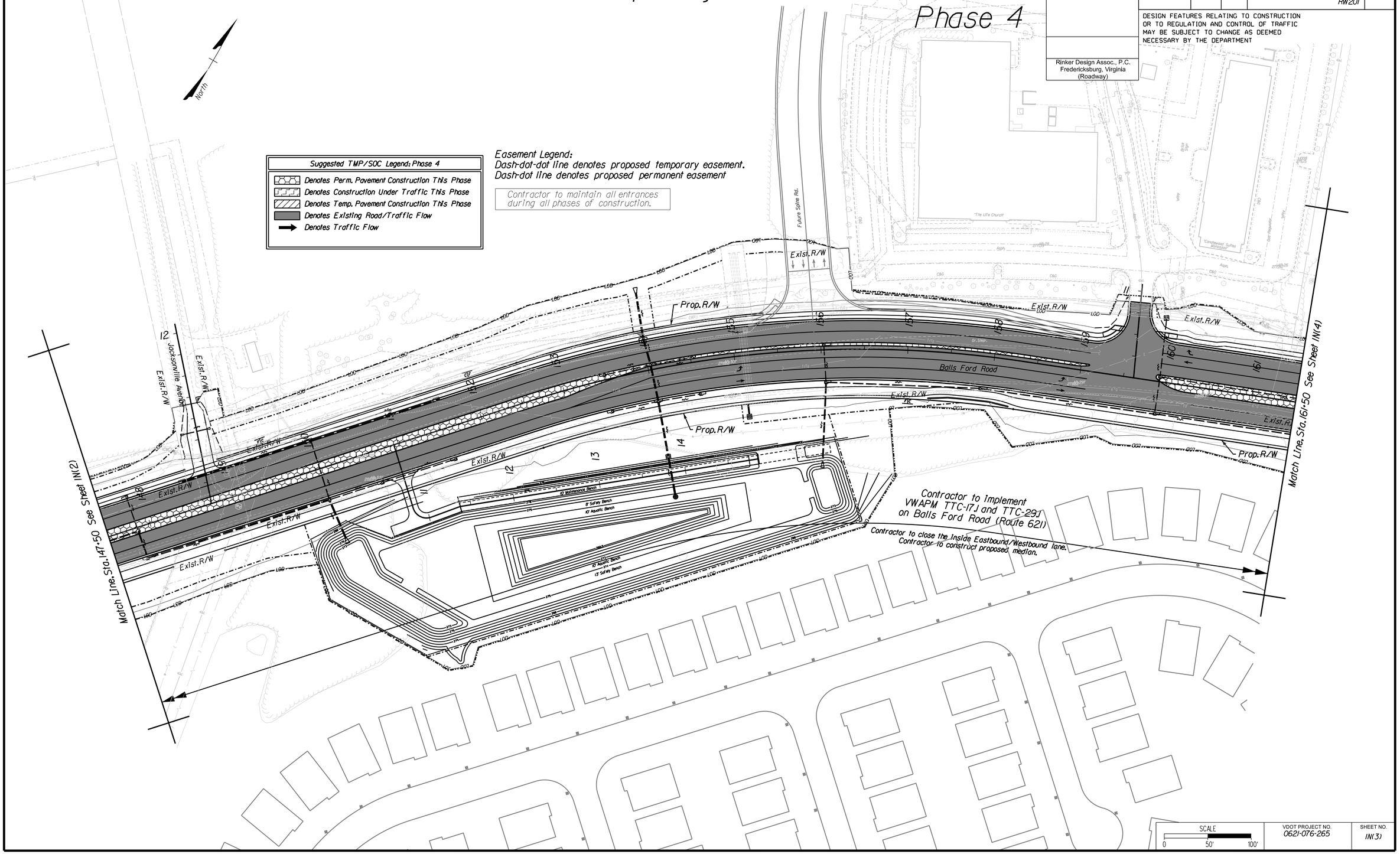

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SCALE	VDOT PROJECT NO.	SHEET NO.
0 50' 100'	0621-076-265	IN(3)

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Phase 4

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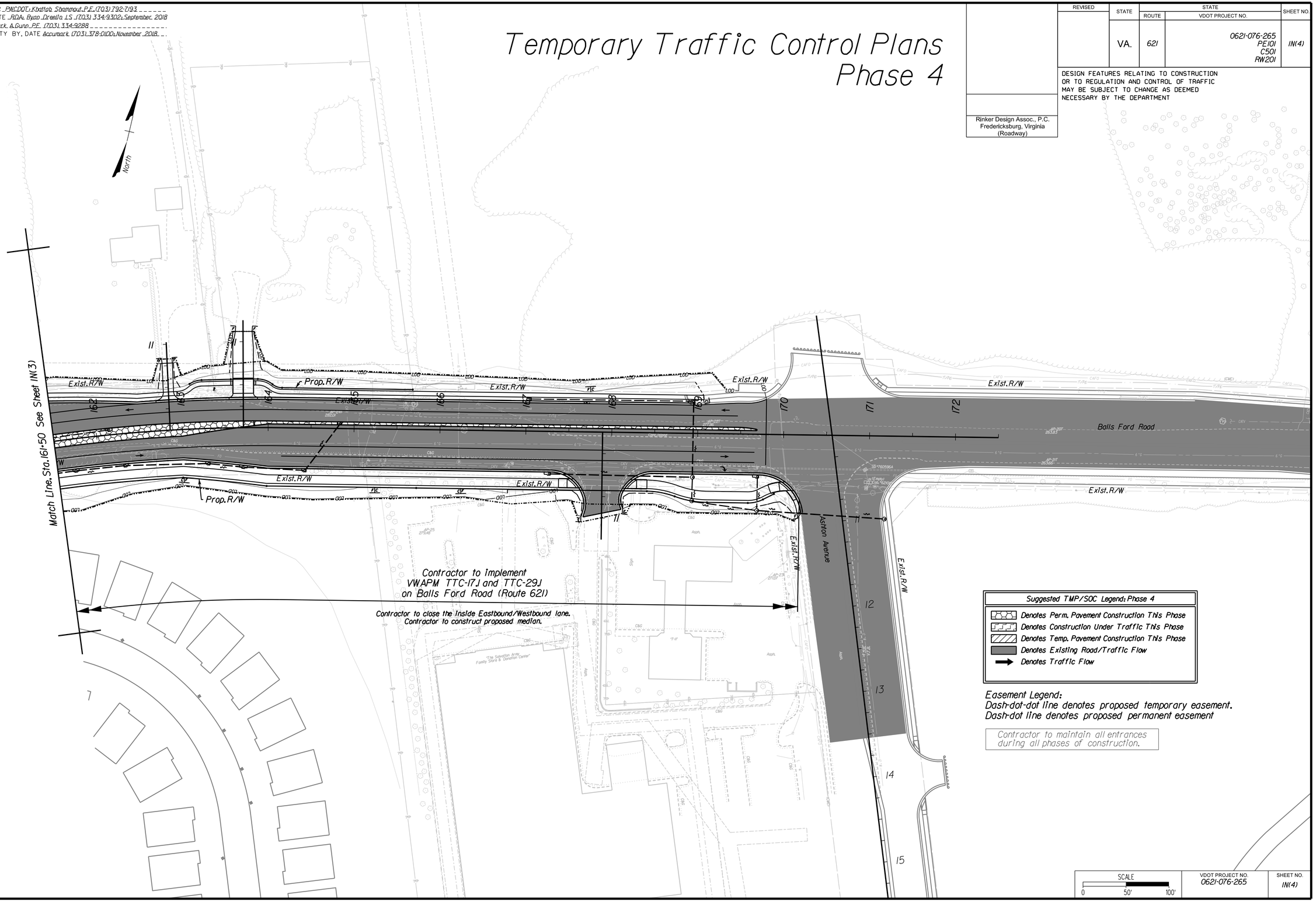

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Erosion and Sediment Control Plan Notes and Details

REVISED	STATE	STATE ROUTE	STATE VDOT PROJECT NO.	SHEET NO.
	VA.		0621-076-265 PE101 C501 RW201	IP

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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 STOCK PILES 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 SOIL 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 UPSLOPE 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 AREA 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 25-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. NONERODIBLE MATERIAL SHALL BE USED FOR THE CONSTRUCTION OF CAUSEWAYS AND COFFERDAMS. EARTHEN FILL MAY BE USED FOR THESE STRUCTURES IF ARMORED BY NONERODIBLE 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 NONERODIBLE MATERIAL SHALL BE PROVIDED.

14. ALL APPLICABLE FEDERAL, STATE AND LOCAL REQUIREMENTS 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 THE 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 THIS CHAPTER.

   f. APPLICABLE SAFETY REQUIREMENTS 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 VESCP AUTHORITY. TRAPPED SEDIMENT AND THE DISTURBED SOIL AREAS RESULTING FROM THE DISPOSITION OF TEMPORARY MEASURES SHALL BE PERMANENTLY STABILIZED TO PREVENT FURTHER EROSION AND SEDIMENTATION.

19. PROPERTIES AND WATERWAYS DOWNSTREAM FROM DEVELOPMENT SITES SHALL BE PROTECTED FROM SEDIMENT DEPOSITION, EROSION AND DAMAGE DUE TO INCREASES 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. STREAM RESTORATION AND RELOCATION PROJECTS THAT INCORPORATE NATURAL CHANNEL DESIGN CONCEPTS ARE NOT MAN-MADE CHANNELS AND SHALL BE EXEMPT FROM ANY FLOW RATE CAPACITY AND VELOCITY REQUIREMENTS FOR NATURAL OR MAN-MADE CHANNELS:

   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 100 TIMES GREATER THAN THE CONTRIBUTING DRAINAGE AREA OF THE PROJECT IN QUESTION;

      (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 OR BANKS.

      ALL PREVIOUSLY CONSTRUCTED MAN-MADE CHANNELS SHALL BE ANALYZED BY THE USE OF A 10-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 10-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 CHANNELS TO A CONDITION WHERE A 10-YEAR STORM WILL NOT OVERTOP THE BANKS AND A TWO-YEAR STORM WILL NOT CAUSE EROSION TO THE CHANNEL, THE BED, OR THE BANKS;

      (2) IMPROVE THE PIPE OR PIPE SYSTEM TO A CONDITION WHERE THE 10-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 10-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 VESCP 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 CONDITION OF THE SUBJECT PROJECT.

   f. IF THE APPLICANT CHOOSES AN OPTION THAT INCLUDES STORMWATER DETENTION, HE SHALL OBTAIN APPROVAL FROM THE VESCP 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 OVER 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 WHEN IT WAS IN A GOOD FORESTED CONDITION DIVIDED BY 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 § 62.1-44.15:54 OR 62.1-44.15:65 OF THE ACT.

   m. FOR PLANS APPROVED ON AND AFTER JULY 1, 2014, THE FLOW RATE CAPACITY AND VELOCITY REQUIREMENTS OF § 62.1-44.15:52 A OF THE ACT AND THIS SUBSECTION SHALL BE SATISFIED BY COMPLIANCE WITH WATER QUANTITY REQUIREMENTS IN THE STORMWATER MANAGEMENT ACT (§ 62.1-44.15:24 ET SEQ. OF THE CODE OF VIRGINIA) AND ATTENDANT REGULATIONS, UNLESS SUCH LAND-DISTURBING ACTIVITIES (I) ARE IN ACCORDANCE WITH PROVISIONS FOR TIME LIMITS ON APPLICABILITY OF APPROVED DESIGN CRITERIA IN 9VAC25-870-47 OR GRANDFATHERING IN 9VAC25-870-48 OF THE VIRGINIA STORMWATER MANAGEMENT PROGRAM (VSMP) REGULATION, IN WHICH CASE THE FLOW RATE CAPACITY AND VELOCITY REQUIREMENTS OF § 62.1-44.15:52 A OF THE ACT SHALL APPLY, OR (II) ARE EXEMPT PURSUANT TO § 62.1-44.15:34 C 7 OF THE ACT.

   n. COMPLIANCE WITH THE WATER QUANTITY MINIMUM STANDARDS SET OUT IN 9VAC25-870-66 OF THE VIRGINIA STORMWATER MANAGEMENT PROGRAM (VSMP) REGULATION SHALL BE DEEMED TO SATISFY THE REQUIREMENTS OF THIS SUBDIVISION 19.

VDOT PROJECT NO.	SHEET NO.
0621-076-265	IP

ADDITIONAL EASEMENTS FOR UTILITY RELOCATIONS MAY BE REQUIRED BEYOND THE PROPOSED RIGHT-OF-WAY SHOWN ON THESE PLANS

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P.H. PLANS

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NOVA DISTRICT

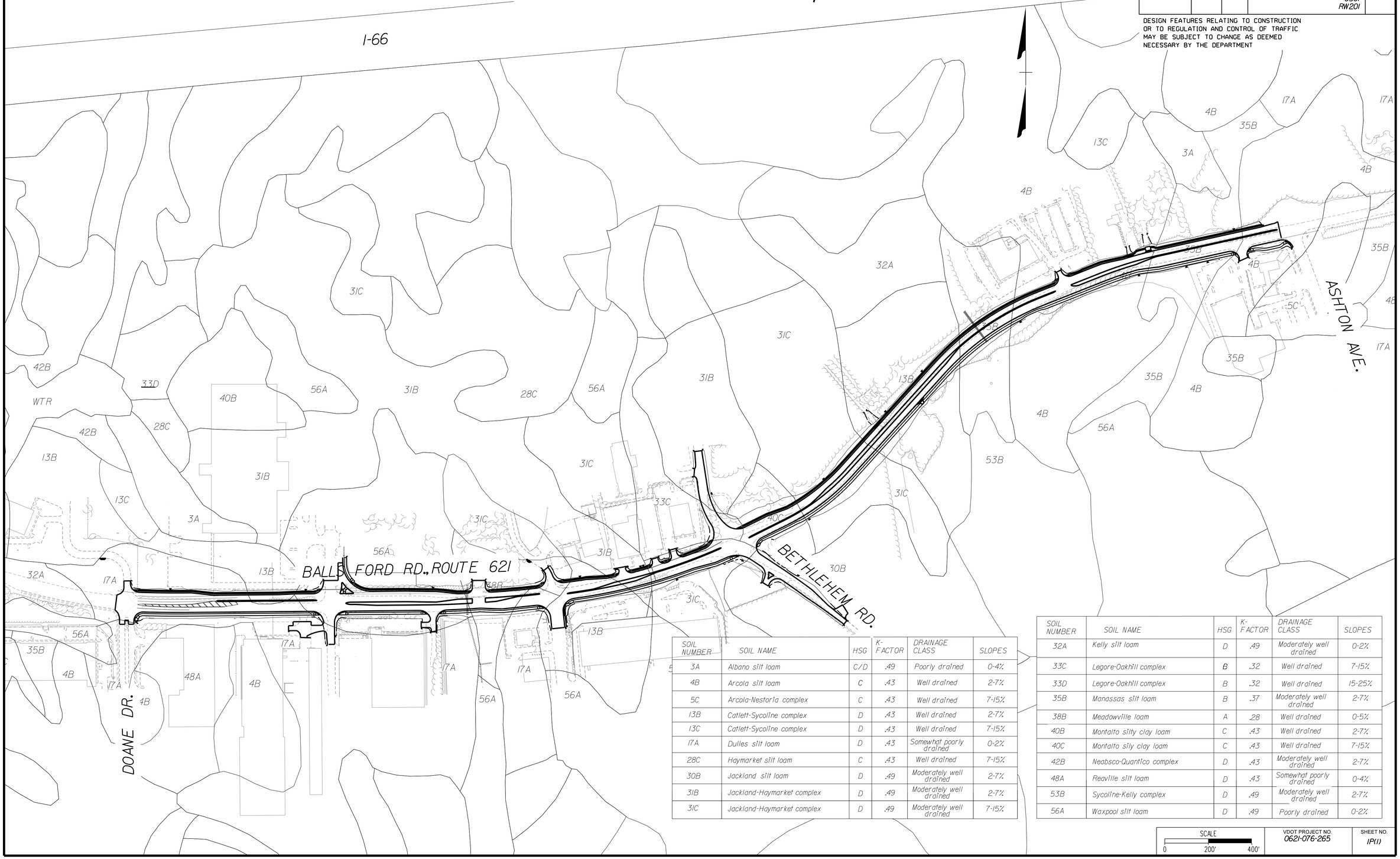
3/25/2019

PROJECT MANAGER PWCDOT: Khattab Shammout, P.E. (703) 792-7193
SURVEYED BY, DATE RDA: Ryan Dreella LS (703) 334-9302: September 2018
DESIGN BY RDA: Mark A. Gunn P.E. (703) 334-9288
SUBSURFACE UTILITY BY, DATE Accumark (703) 378-0100: November 2018

REVISED	STATE	STATE ROUTE	STATE VDOT PROJECT NO.	SHEET NO.
	VA.		0621-076-265 PE101 C501 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

Soils Identification Map



SOIL NUMBER	SOIL NAME	HSG	K-FACTOR	DRAINAGE CLASS	SLOPES
3A	Albano silt loam	C/D	.49	Poorly drained	0-4%
4B	Arcola silt loam	C	.43	Well drained	2-7%
5C	Arcola-Nestoria complex	C	.43	Well drained	7-15%
13B	Catlett-Sycoline complex	D	.43	Well drained	2-7%
13C	Catlett-Sycoline complex	D	.43	Well drained	7-15%
17A	Dulles silt loam	D	.43	Somewhat poorly drained	0-2%
28C	Haymarket silt loam	C	.43	Well drained	7-15%
30B	Jackland silt loam	D	.49	Moderately well drained	2-7%
31B	Jackland-Haymarket complex	D	.49	Moderately well drained	2-7%
31C	Jackland-Haymarket complex	D	.49	Moderately well drained	7-15%

SOIL NUMBER	SOIL NAME	HSG	K-FACTOR	DRAINAGE CLASS	SLOPES
32A	Kelly silt loam	D	.49	Moderately well drained	0-2%
33C	Legore-Oakhill complex	B	.32	Well drained	7-15%
33D	Legore-Oakhill complex	B	.32	Well drained	15-25%
35B	Manassas silt loam	B	.37	Moderately well drained	2-7%
38B	Meadowville loam	A	.28	Well drained	0-5%
40B	Montalto silty clay loam	C	.43	Well drained	2-7%
40C	Montalto silty clay loam	C	.43	Well drained	7-15%
42B	Neabsco-Quantico complex	D	.43	Moderately well drained	2-7%
48A	Reaville silt loam	D	.43	Somewhat poorly drained	0-4%
53B	Sycoline-Kelly complex	D	.49	Moderately well drained	2-7%
56A	Waxpool silt loam	D	.49	Poorly drained	0-2%

SCALE 0 200' 400'

VDOT PROJECT NO.	SHEET NO.
0621-076-265	IP(1)

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Erosion and Sediment Control Phase I

REVISED	STATE	ROUTE	STATE VDOT PROJECT NO.	SHEET NO.
	VA.	621	0621-076-265 PE101 C501 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

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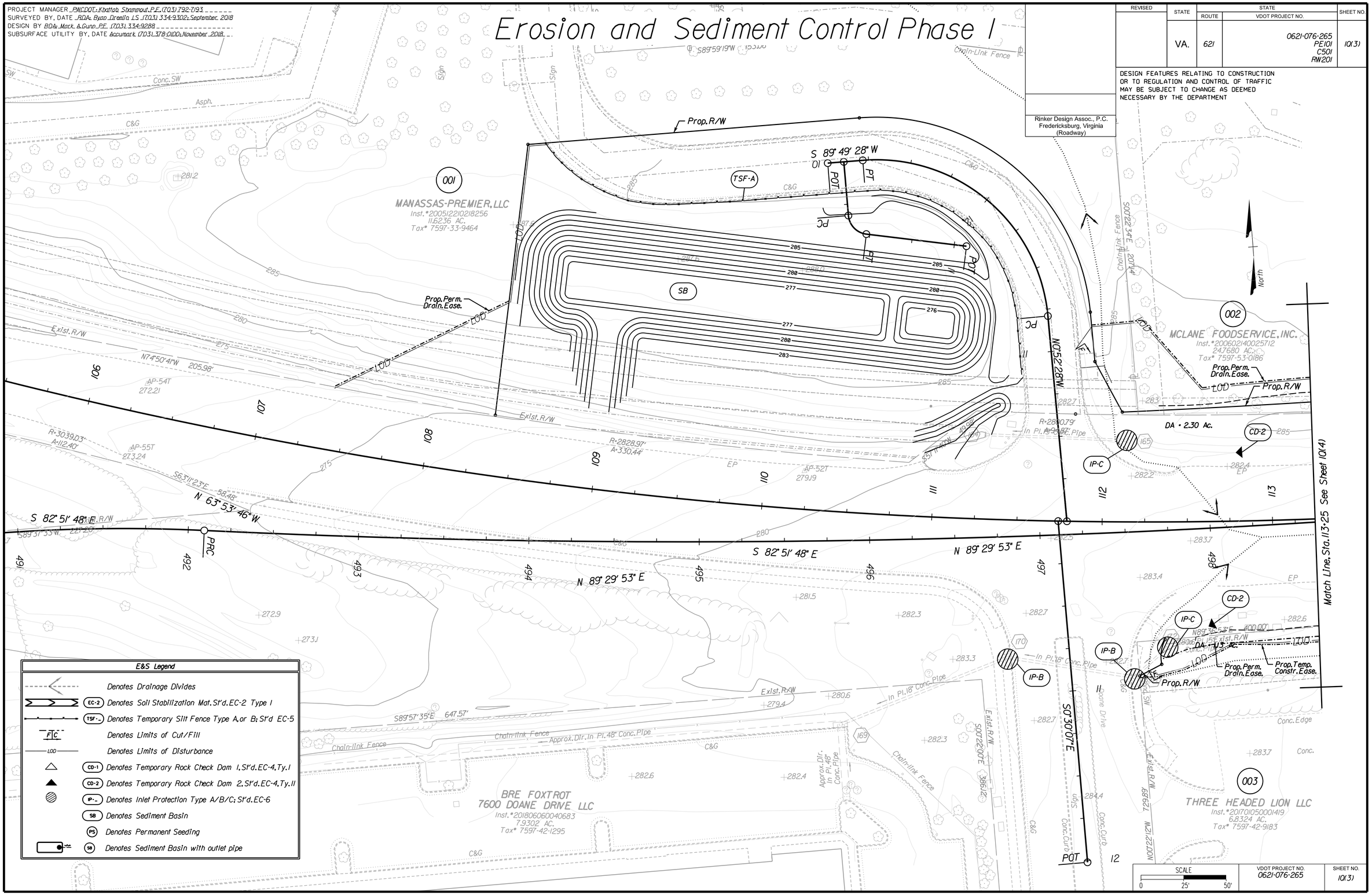
(Roadway)



SCALE	VDOT PROJECT NO.	SHEET NO.
0 25' 50'	0621-076-265	10(3)

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Erosion and Sediment Control Phase I

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	VA.	621	0621-076-265 PE101 C501 RW201	10(4)

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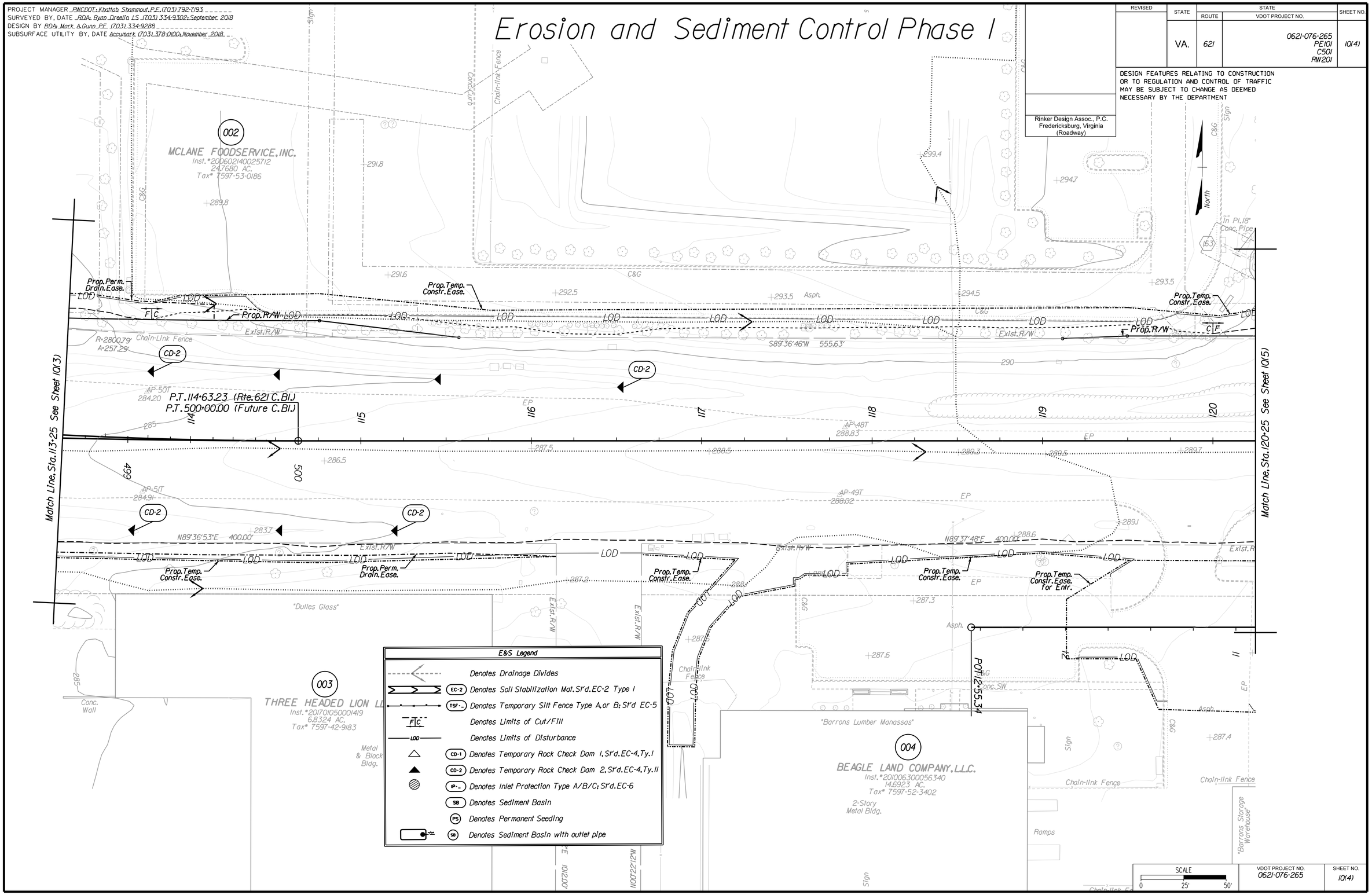

E&S Legend

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

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VDOT PROJECT NO.	SHEET NO.
0621-076-265	10(4)

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Erosion and Sediment Control Phase I

REVISED	STATE	ROUTE	STATE VDOT PROJECT NO.	SHEET NO.
	VA.	621	0621-076-265 PE101 C501 RW201	10(5)

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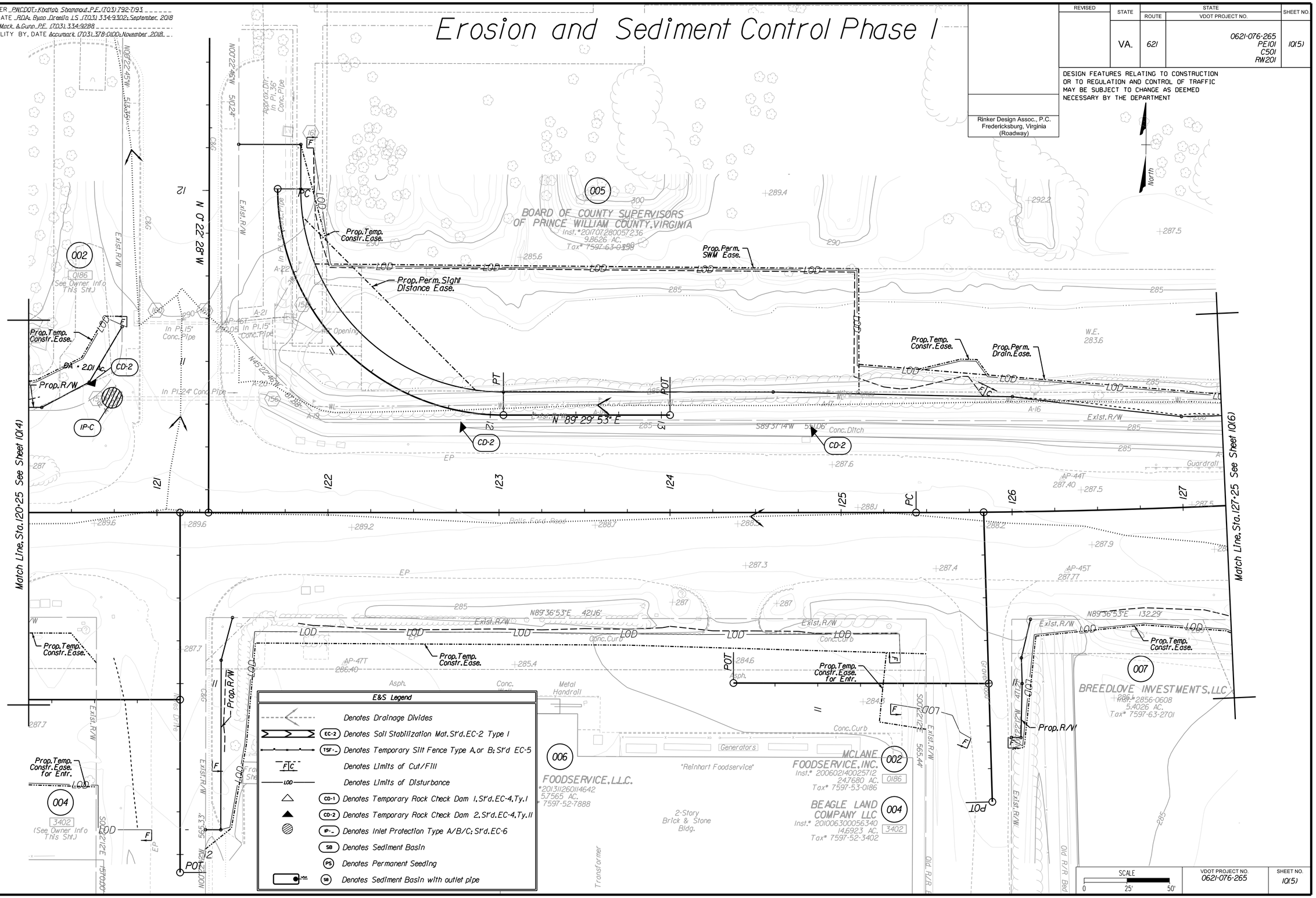

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SCALE 0 25' 50'

VDOT PROJECT NO.	SHEET NO.
0621-076-265	10(5)

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Erosion and Sediment Control Phase I

REVISED	STATE	ROUTE	STATE VDOT PROJECT NO.	SHEET NO.
	VA.	621	0621-076-265 PE101 C501 RW201	1Q(6)

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

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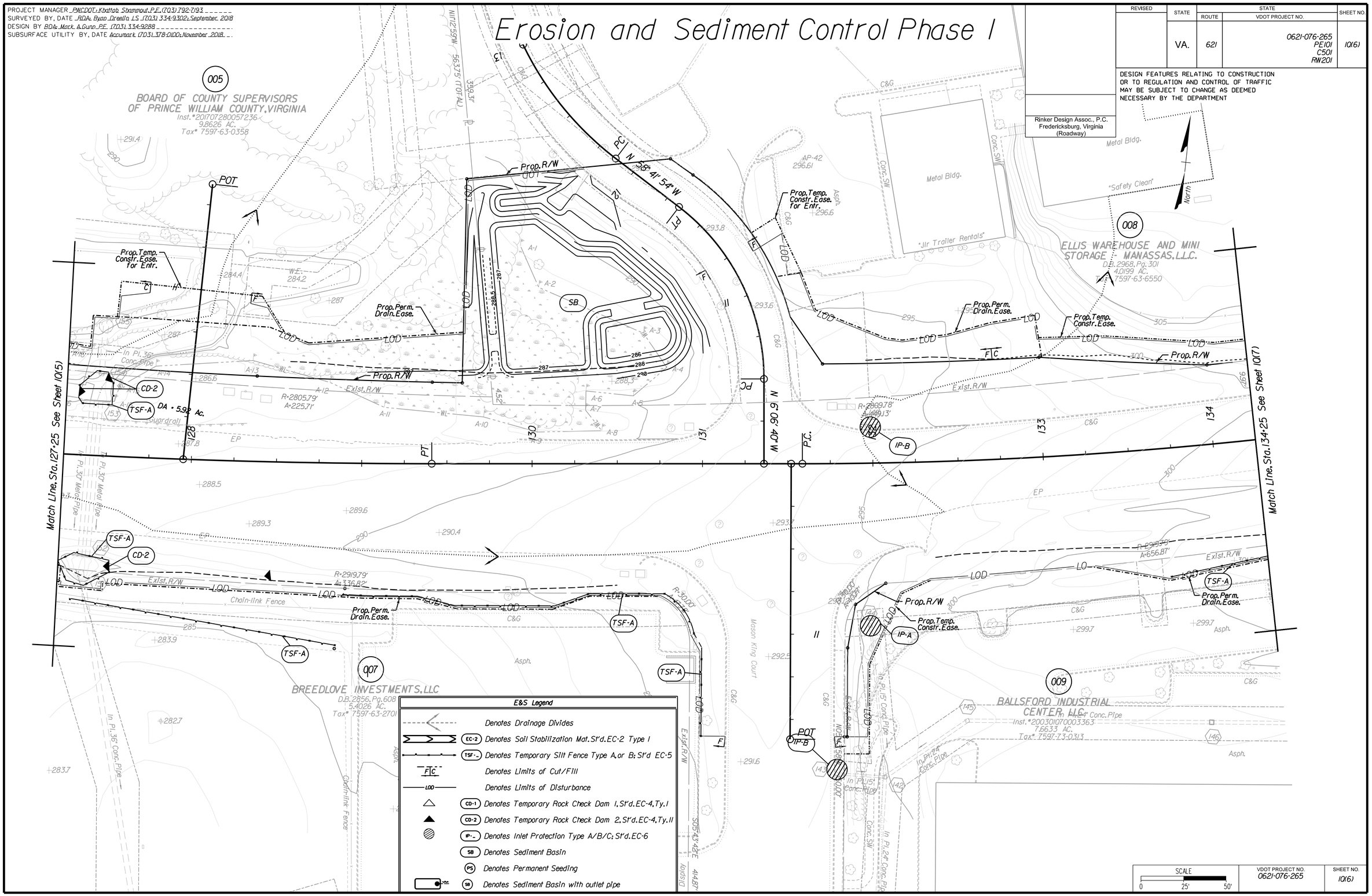

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SCALE 0 25' 50'

VDOT PROJECT NO.	SHEET NO.
0621-076-265	1Q(6)

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Erosion and Sediment Control Phase I

REVISED	STATE	ROUTE	STATE VDOT PROJECT NO.	SHEET NO.
	VA.	621	0621-076-265 PE101 C501 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

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Fredericksburg, Virginia
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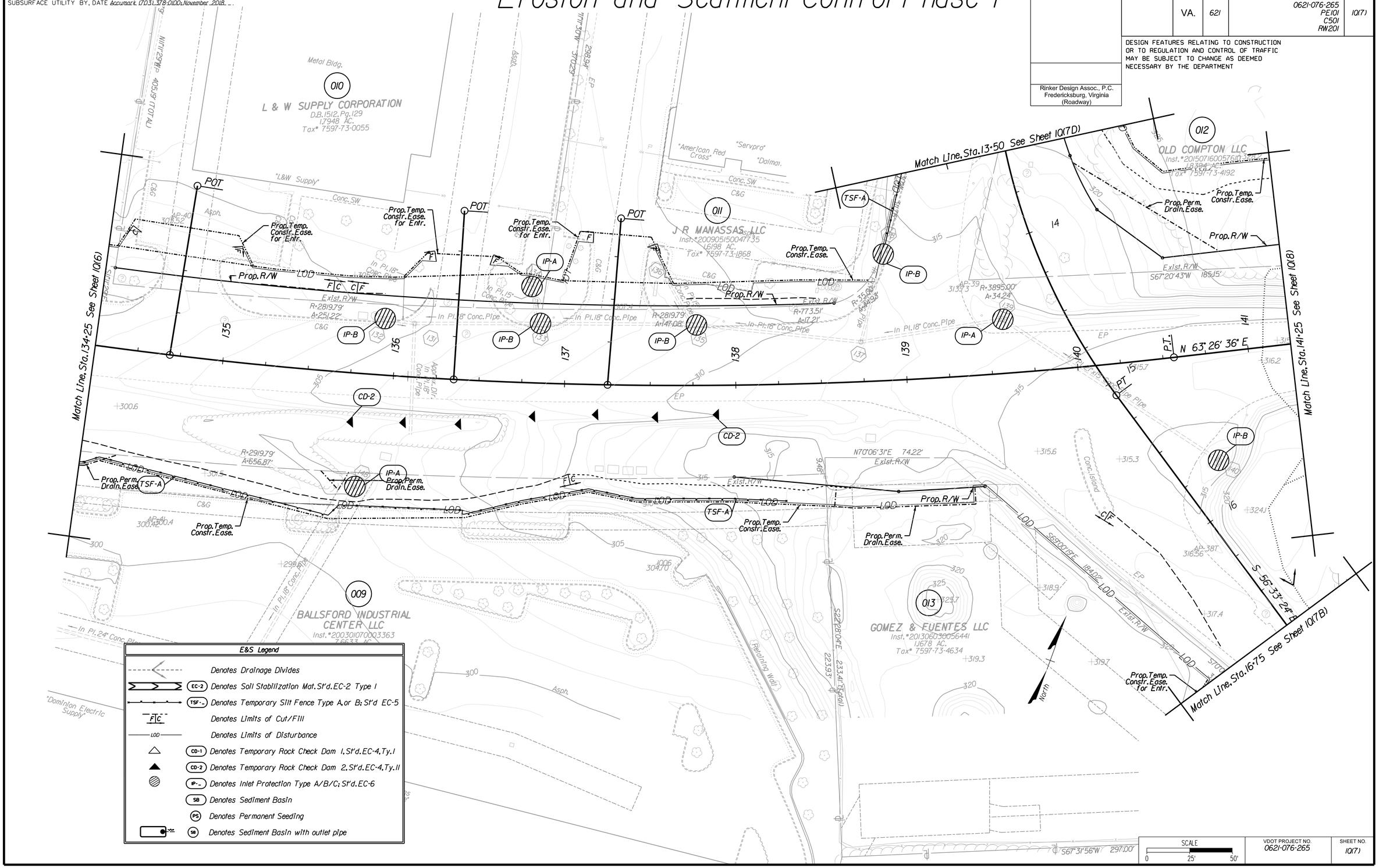

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SCALE 0 25' 50'

VDOT PROJECT NO.	SHEET NO.
0621-076-265	10(7)

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SURVEYED BY, DATE RDA: Ryan Dreella LS (703) 334-9302: September 2018
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SUBSURFACE UTILITY BY, DATE Accumark (703) 378-0100: November 2018

Rinker Design Associates, P.C.
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Fax: 301-718-8316
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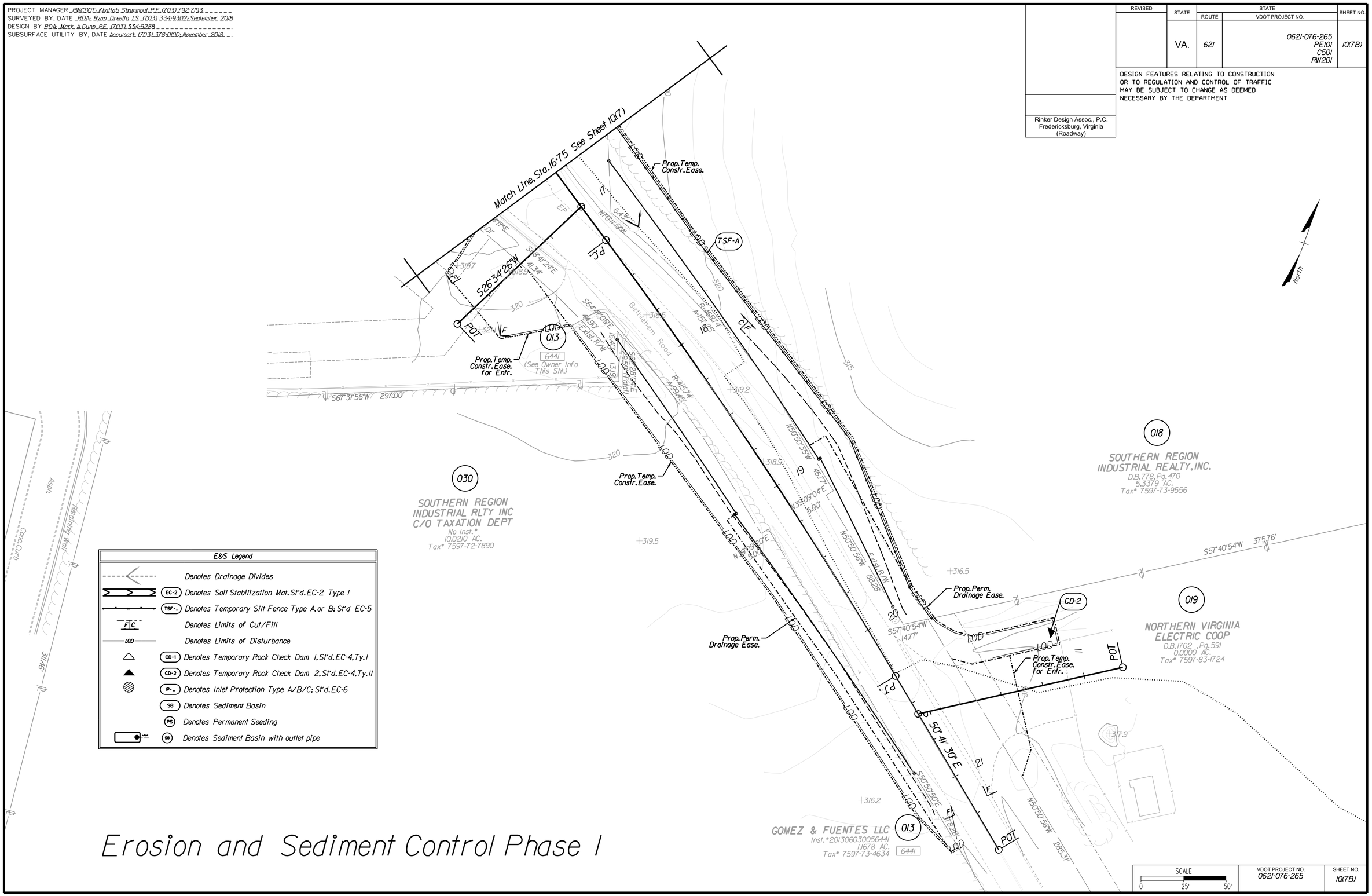
Phone: 919-404-9501
Fax: 919-404-9507
8180 Greensboro Drive
Suite 1000
McLean, VA 22102
Phone: 703-790-9595
Fax: 703-790-9745
8270 Tyler Avenue Drive
Suite 100
Fredericksburg, VA 22407
Phone: 540-373-4651
Fax: 540-373-4657

REVISED	STATE	ROUTE	STATE VDOT PROJECT NO.	SHEET NO.
	VA.	621	0621-076-265 PE101 C501 RW201	10(7B)

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 Phase I

SCALE	VDOT PROJECT NO.	SHEET NO.
0 25' 50'	0621-076-265	10(7B)

ADDITIONAL EASEMENTS FOR UTILITY RELOCATIONS MAY BE REQUIRED BEYOND THE PROPOSED RIGHT-OF-WAY SHOWN ON THESE PLANS

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

P.H. PLANS

3/25/2019

PROJECT MANAGER PWCDOT: Khattab Shammout, P.E. (703) 792-7193
SURVEYED BY, DATE RDA: Ryan Dreella LS (703) 334-9302: September 2018
DESIGN BY RDA: Mark A. Gunn, P.E. (703) 334-9288
SUBSURFACE UTILITY BY, DATE Accumark (703) 378-0100: November 2018

Erosion and Sediment Control Phase I

REVISED	STATE	ROUTE	STATE VDOT PROJECT NO.	SHEET NO.
	VA.	621	0621-076-265 PE101 C501 RW201	10(7D)

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)

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Right of Way Services
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8101 Discovery Boulevard, Suite 100, Manassas, VA 20109 Phone: (703) 335-0000 Fax: (703) 335-0001
8101 Discovery Boulevard, Suite 100, Phoenix, MD 21131 Phone: (410) 584-9000 Fax: (410) 584-9001
www.RinkerDesign.com

E&S Legend

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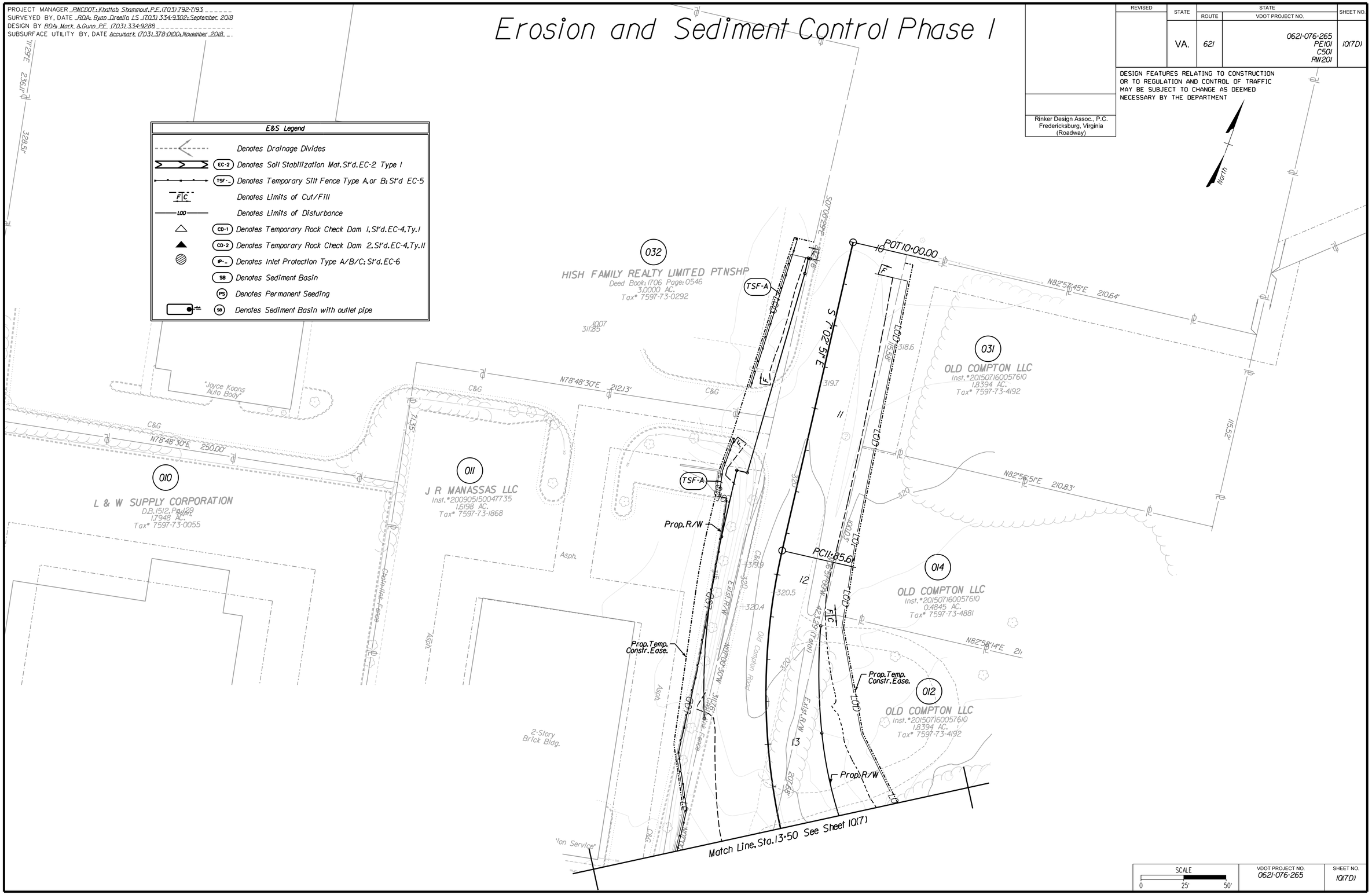
- CD-2 Denotes Temporary Rock Check Dam 2, St'd. EC-4, Ty. II
- IP-_ Denotes Inlet Protection Type A/B/C; St'd. EC-6
- SB Denotes Sediment Basin
- PS Denotes Permanent Seeding
- SB Denotes Sediment Basin with outlet pipe



SCALE	VDOT PROJECT NO.	SHEET NO.
0 25' 50'	0621-076-265	10(7D)

ADDITIONAL EASEMENTS FOR UTILITY RELOCATIONS MAY BE REQUIRED BEYOND THE PROPOSED RIGHT-OF-WAY SHOWN ON THESE PLANS

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P.H. PLANS

3/25/2019

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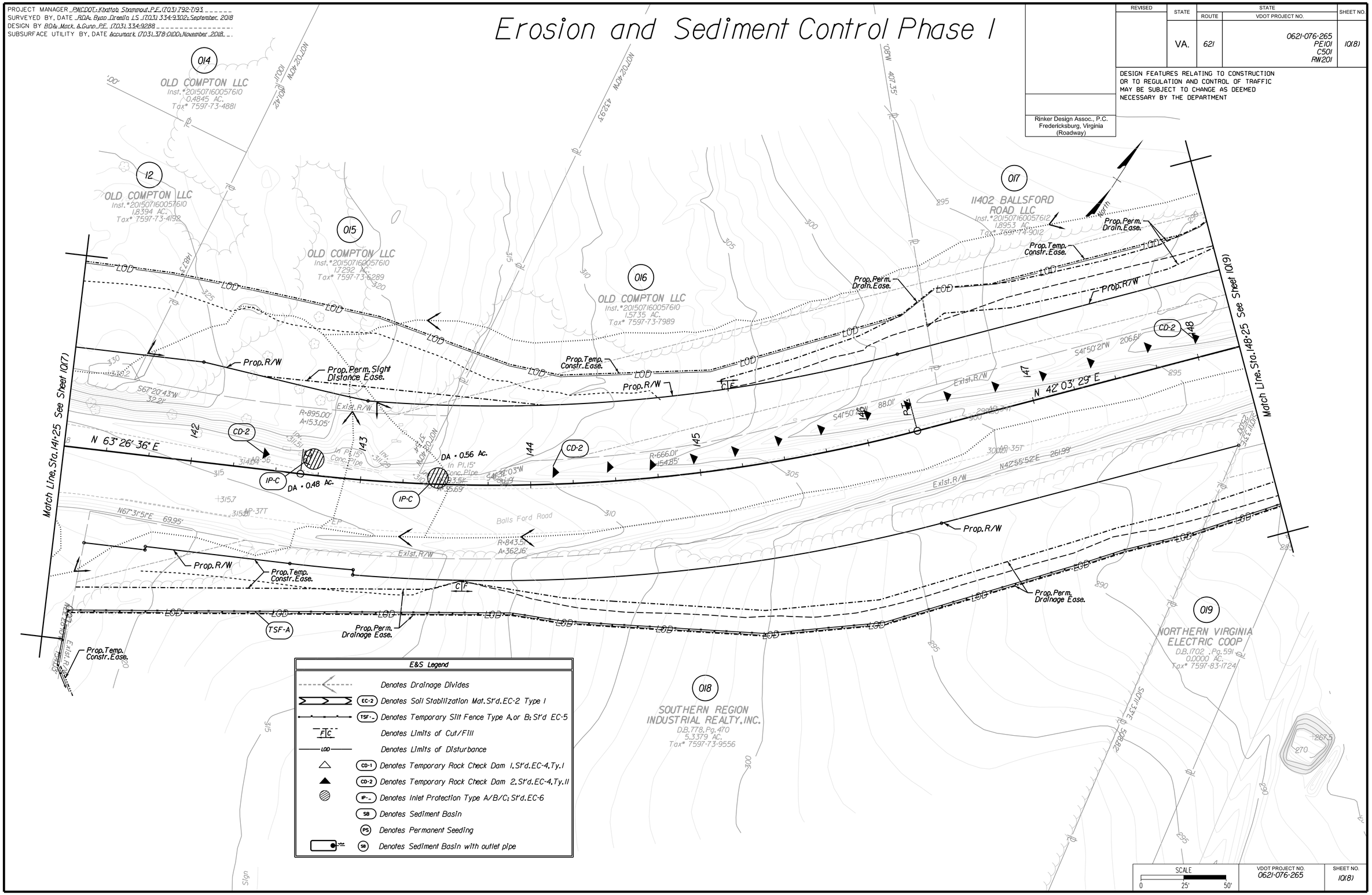
SUBSURFACE UTILITY BY, DATE Accumark (703) 378-0100, November 2018

Erosion and Sediment Control Phase I

REVISED	STATE	ROUTE	STATE VDOT PROJECT NO.	SHEET NO.
	VA.	621	0621-076-265 PE101 C501 RW201	10(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
(Roadway)



SCALE	VDOT PROJECT NO.	SHEET NO.
0 25' 50'	0621-076-265	10(8)

ADDITIONAL EASEMENTS FOR UTILITY RELOCATIONS MAY BE REQUIRED BEYOND THE PROPOSED RIGHT-OF-WAY SHOWN ON THESE PLANS

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P.H. PLANS

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Phone: (757) 490-1460
Phone: (703) 471-6193
Phone: (703) 334-9302

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Erosion and Sediment Control Phase I

REVISED	STATE	ROUTE	STATE VDOT PROJECT NO.	SHEET NO.
	VA.	621	0621-076-265 PE101 C501 RW201	10(9)

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

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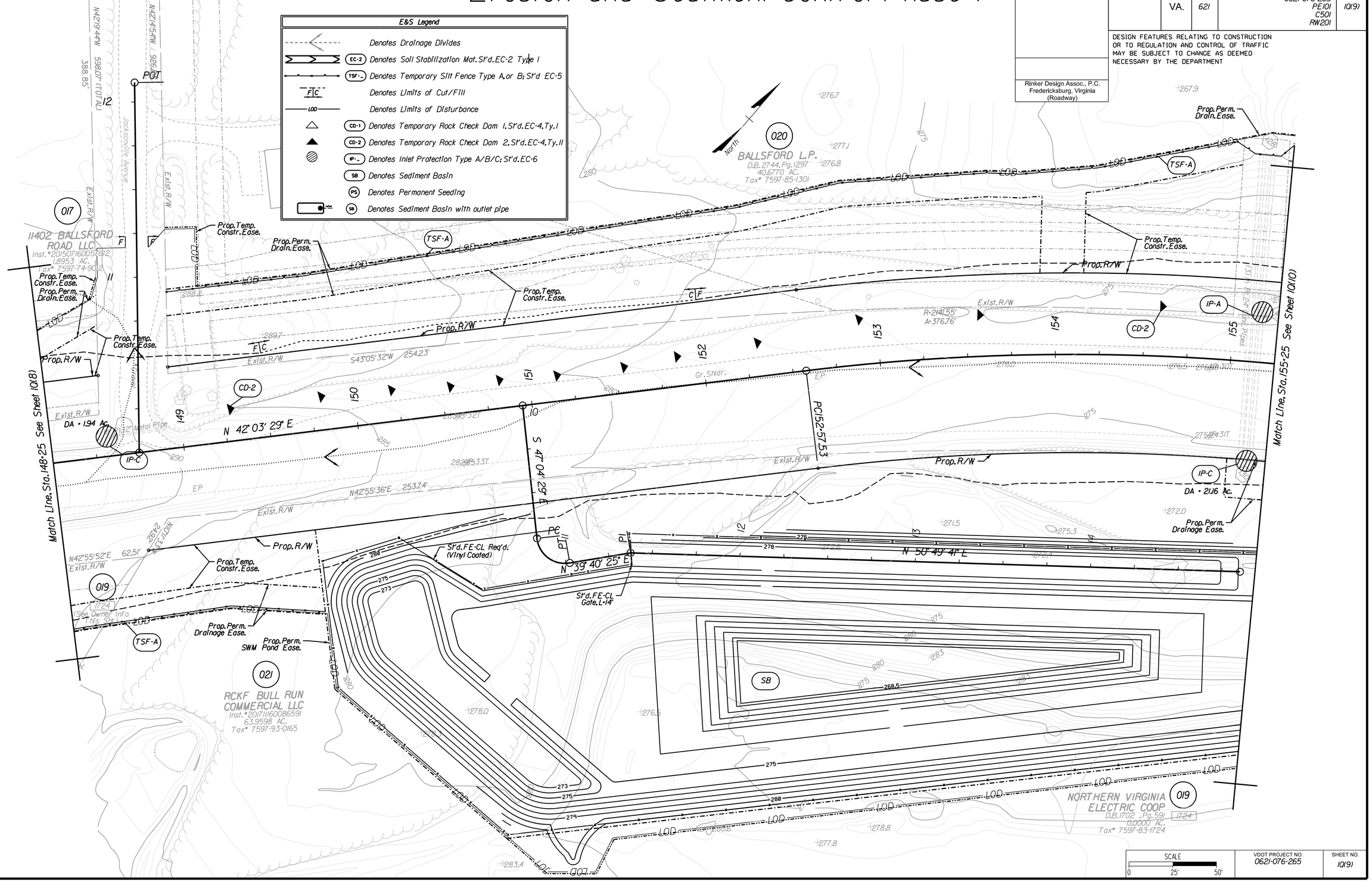

SCALE	VDOT PROJECT NO.	SHEET NO.
0 25' 50'	0621-076-265	10(9)

ADDITIONAL EASEMENTS FOR UTILITY RELOCATIONS MAY BE REQUIRED BEYOND THE PROPOSED RIGHT-OF-WAY SHOWN ON THESE PLANS

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P.H. PLANS

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SURVEYED BY, DATE RDA: Ryan Dreella LS (703) 334-9302: September 2018
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SUBSURFACE UTILITY BY, DATE Accumark (703) 378-0100: November 2018

Erosion and Sediment Control Phase I

REVISED	STATE	ROUTE	STATE VDOT PROJECT NO.	SHEET NO.
	VA.	621	0621-076-265 PE101 C501 RW201	10(10)

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

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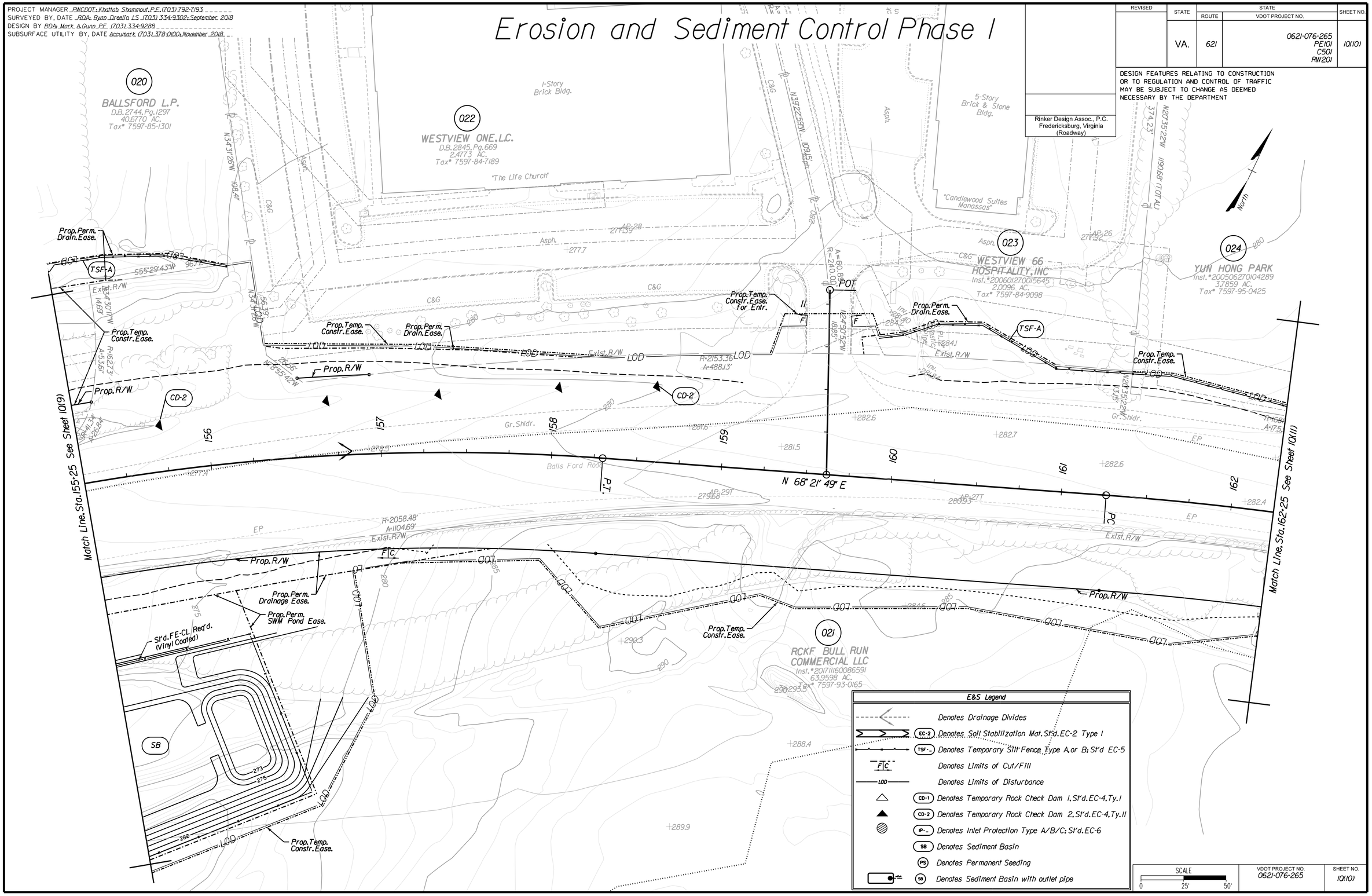

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- PS Denotes Permanent Seeding
- SB Denotes Sediment Basin with outlet pipe

SCALE	VDOT PROJECT NO.	SHEET NO.
0 25' 50'	0621-076-265	10(10)

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Richmond, VA 23219 Phone: (804) 343-1100 Fax: (804) 343-1101

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Erosion and Sediment Control Phase I

REVISED	STATE	ROUTE	STATE VDOT PROJECT NO.	SHEET NO.
	VA.	621	0621-076-265 PE101 C501 RW201	1Q(11)

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

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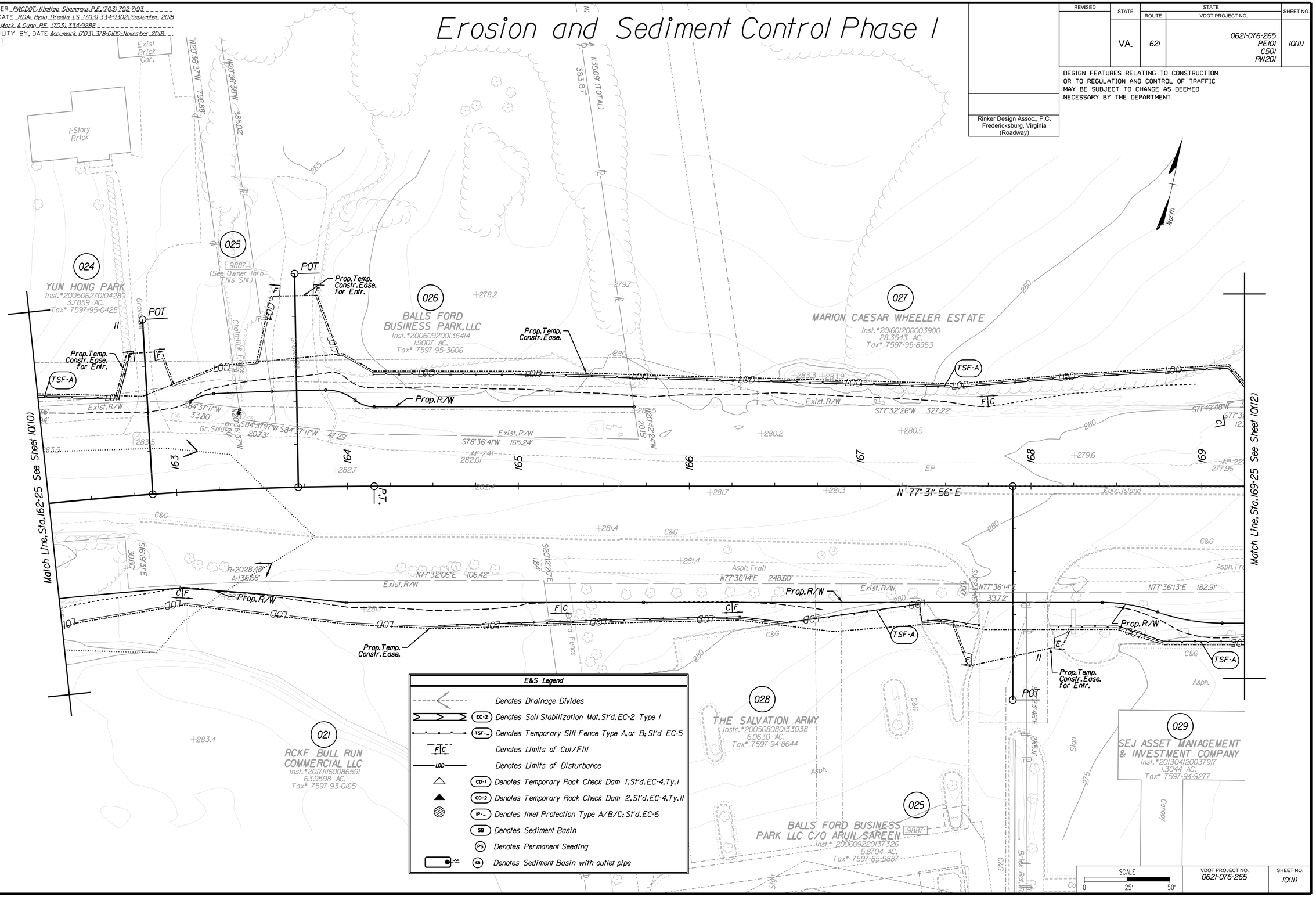
(Roadway)



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SB	Denotes Sediment Basin with outlet pipe

SCALE 0 25' 50'

VDOT PROJECT NO. 0621-076-265

SHEET NO. 1Q(11)

ADDITIONAL EASEMENTS FOR UTILITY RELOCATIONS MAY BE REQUIRED BEYOND THE PROPOSED RIGHT-OF-WAY SHOWN ON THESE PLANS

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P.H. PLANS

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8000 Discovery Boulevard Suite 110 Baltimore, MD 21244 Phone: (410) 719-6000 Fax: (410) 719-6010

3/25/2019

PROJECT MANAGER PWCDOT: Khattab Shammout, P.E. (703) 792-7193
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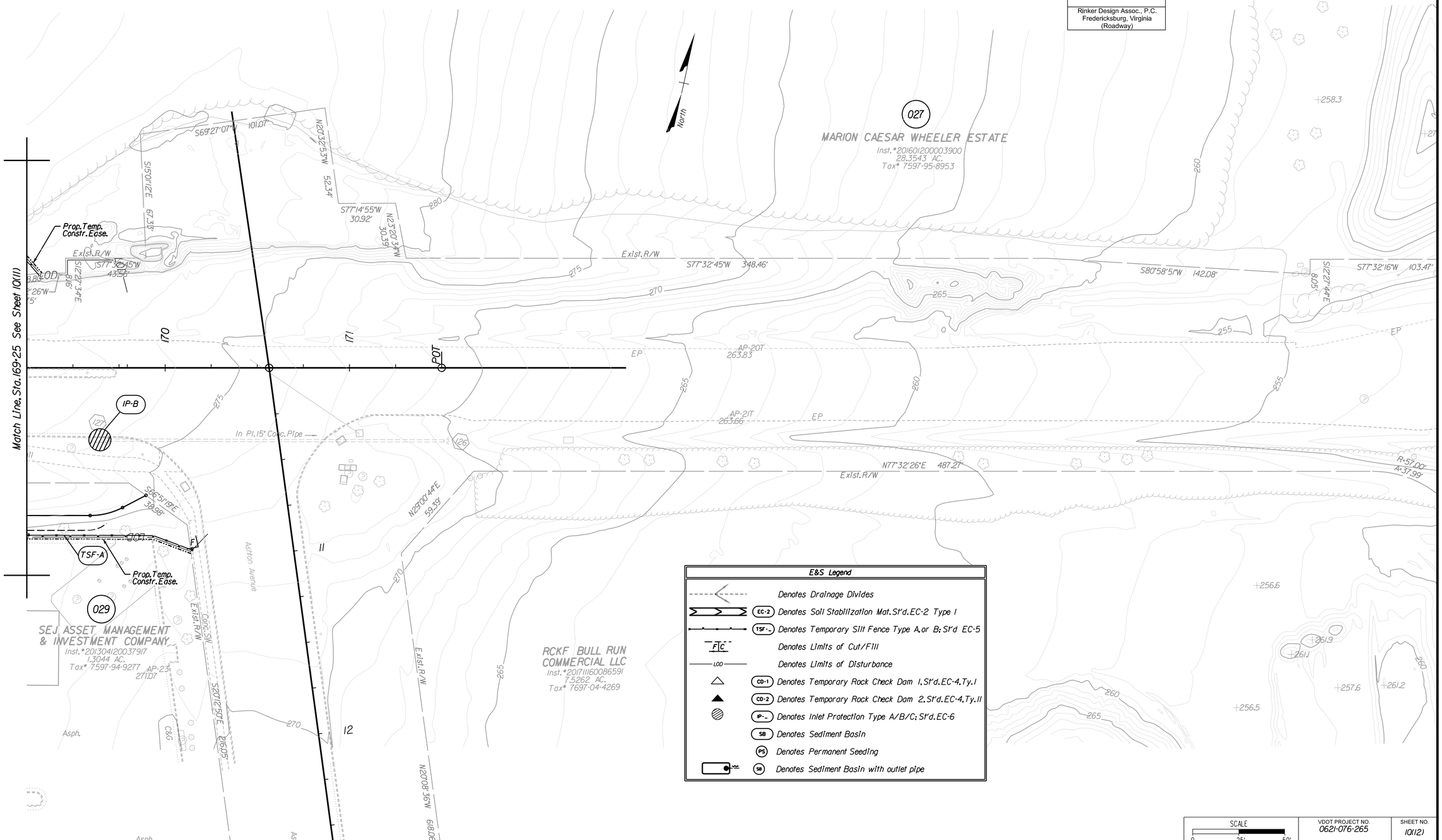
DESIGN BY RDA: Mark A. Gunn, P.E. (703) 334-9288
SUBSURFACE UTILITY BY, DATE Accumark (703) 378-0100: November 2018

Erosion and Sediment Control Phase I

REVISED	STATE	ROUTE	VDOT PROJECT NO.	SHEET NO.
	VA.	621	0621-076-265 PE101 C501 RW201	1Q(12)

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)



SCALE 0 25' 50'

VDOT PROJECT NO.	SHEET NO.
0621-076-265	1Q(12)

ADDITIONAL EASEMENTS FOR UTILITY RELOCATIONS MAY BE REQUIRED BEYOND THE PROPOSED RIGHT-OF-WAY SHOWN ON THESE PLANS

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P.H. PLANS

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4101 Dominion Boulevard, Suite 300, Glen Allen, VA 23060, Phone: (804) 747-1760, Fax: (804) 747-5960
4101 Discovery Boulevard, Suite 100, Chesapeake, VA 23320, Phone: (757) 523-0011, Fax: (757) 523-0012
2101 Parkside Drive, Suite 1, Fredericksburg, VA 22407, Phone: (540) 373-4651, Fax: (540) 373-4657

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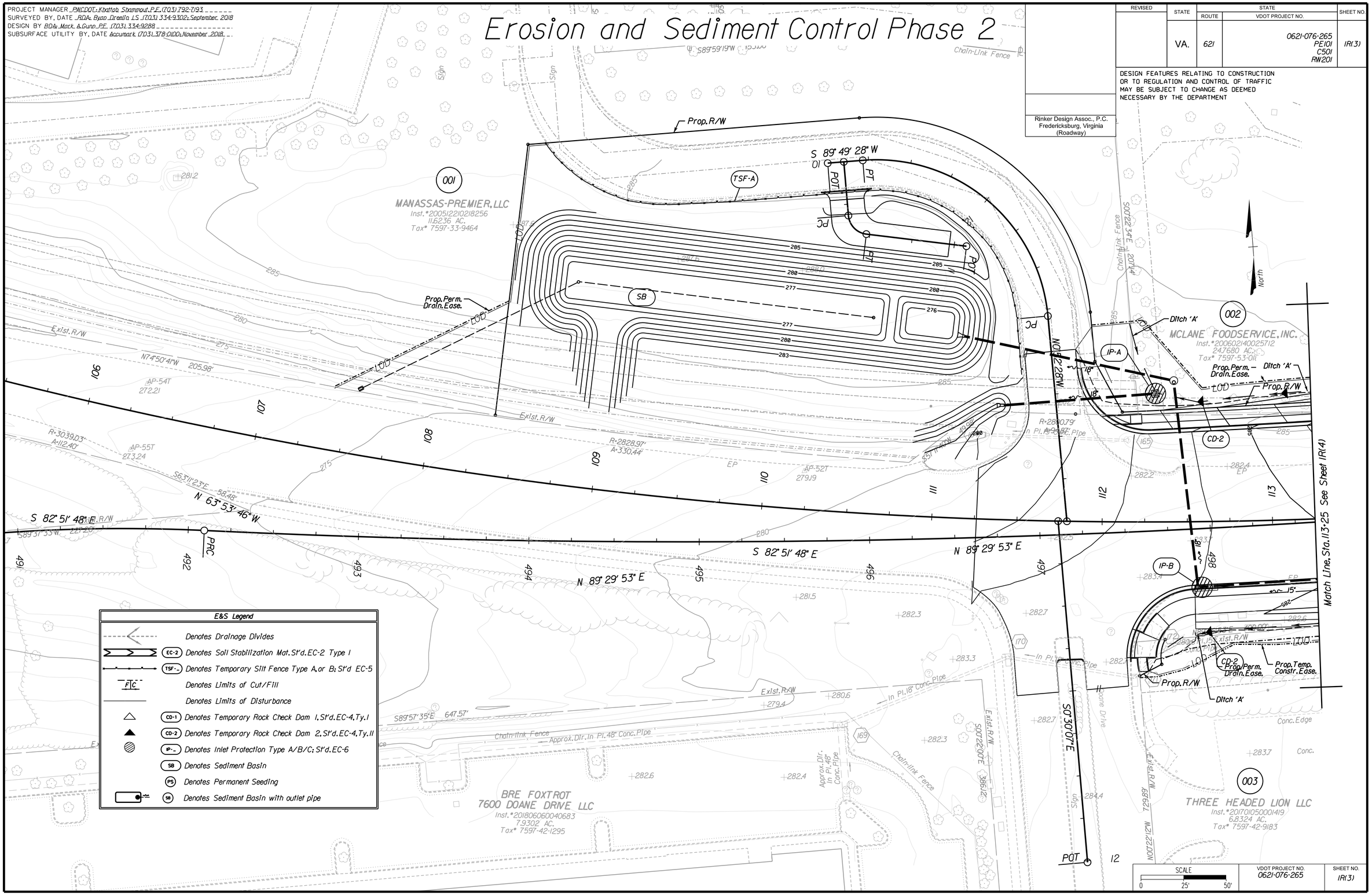
Richmond, VA 23219 Phone: (804) 225-0000 Fax: (804) 225-0001
Rinker Design Assoc., P.C. Fredericksburg, Virginia (Roadway)

Erosion and Sediment Control Phase 2

REVISED	STATE	ROUTE	STATE VDOT PROJECT NO.	SHEET NO.
	VA.	621	0621-076-265 PE101 C501 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



SCALE	VDOT PROJECT NO.	SHEET NO.
0 25' 50'	0621-076-265	IR(3)

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P.H. PLANS

3/25/2019

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SUBSURFACE UTILITY BY, DATE Accumark (703) 378-0100: November 2018

Erosion and Sediment Control Phase 2

REVISED	STATE	ROUTE	STATE VDOT PROJECT NO.	SHEET NO.
	VA.	621	0621-076-265 PE101 C501 RW201	IR(4)

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

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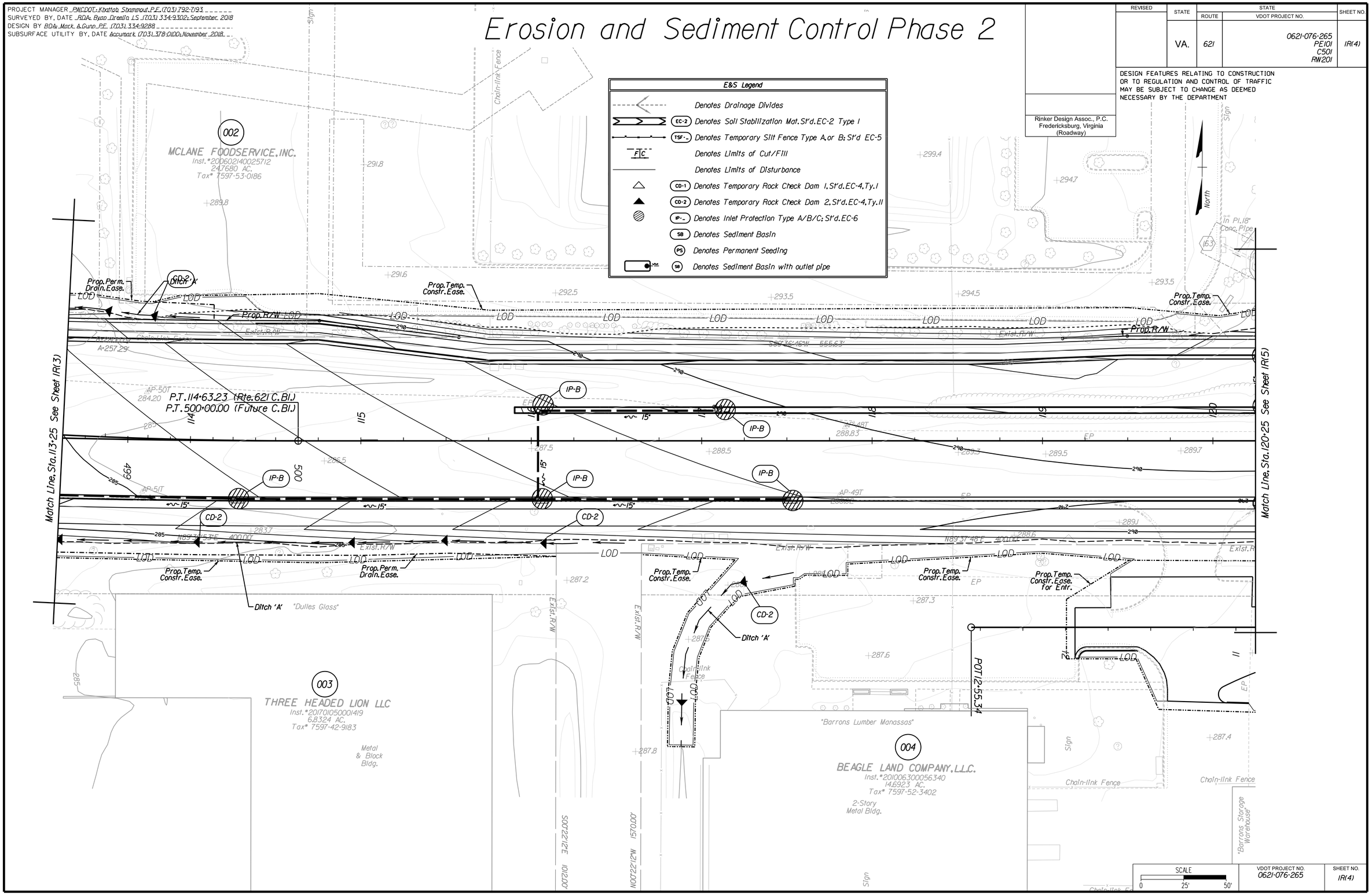

SCALE 0 25' 50'

VDOT PROJECT NO.	SHEET NO.
0621-076-265	IR(4)

ADDITIONAL EASEMENTS FOR UTILITY RELOCATIONS MAY BE REQUIRED BEYOND THE PROPOSED RIGHT-OF-WAY SHOWN ON THESE PLANS

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Erosion and Sediment Control Phase 2

REVISED	STATE	ROUTE	STATE VDOT PROJECT NO.	SHEET NO.
	VA.	621	0621-076-265 PE101 C501 RW201	IR(5)

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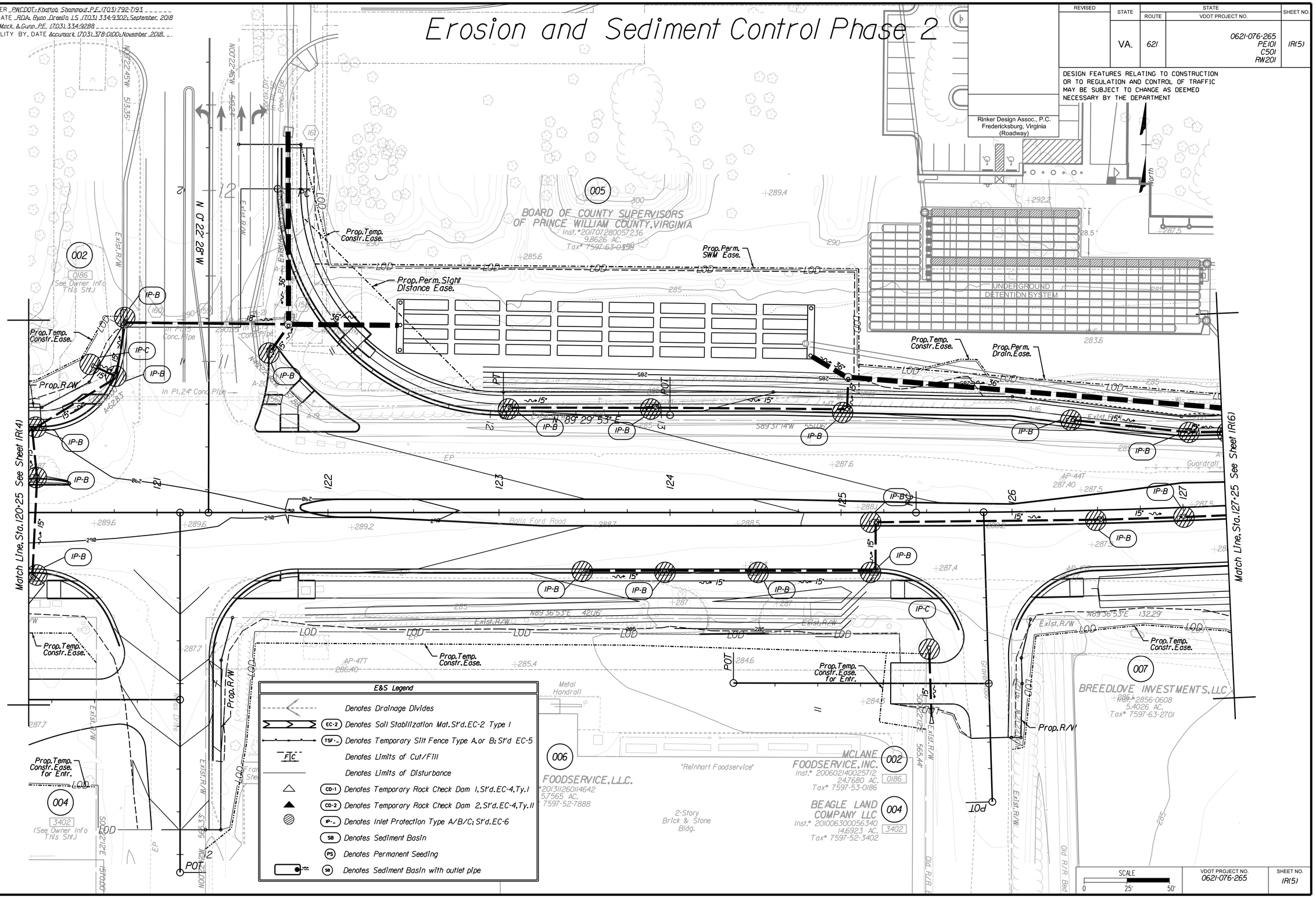

SCALE	VDOT PROJECT NO.	SHEET NO.
0 25' 50'	0621-076-265	IR(5)

ADDITIONAL EASEMENTS FOR UTILITY RELOCATIONS MAY BE REQUIRED BEYOND THE PROPOSED RIGHT-OF-WAY SHOWN ON THESE PLANS

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P.H. PLANS

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3/25/2019

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Erosion and Sediment Control Phase 2

REVISED	STATE	ROUTE	VDOT PROJECT NO.	SHEET NO.
	VA.	621	0621-076-265 PE101 C501 RW201	IR(6)

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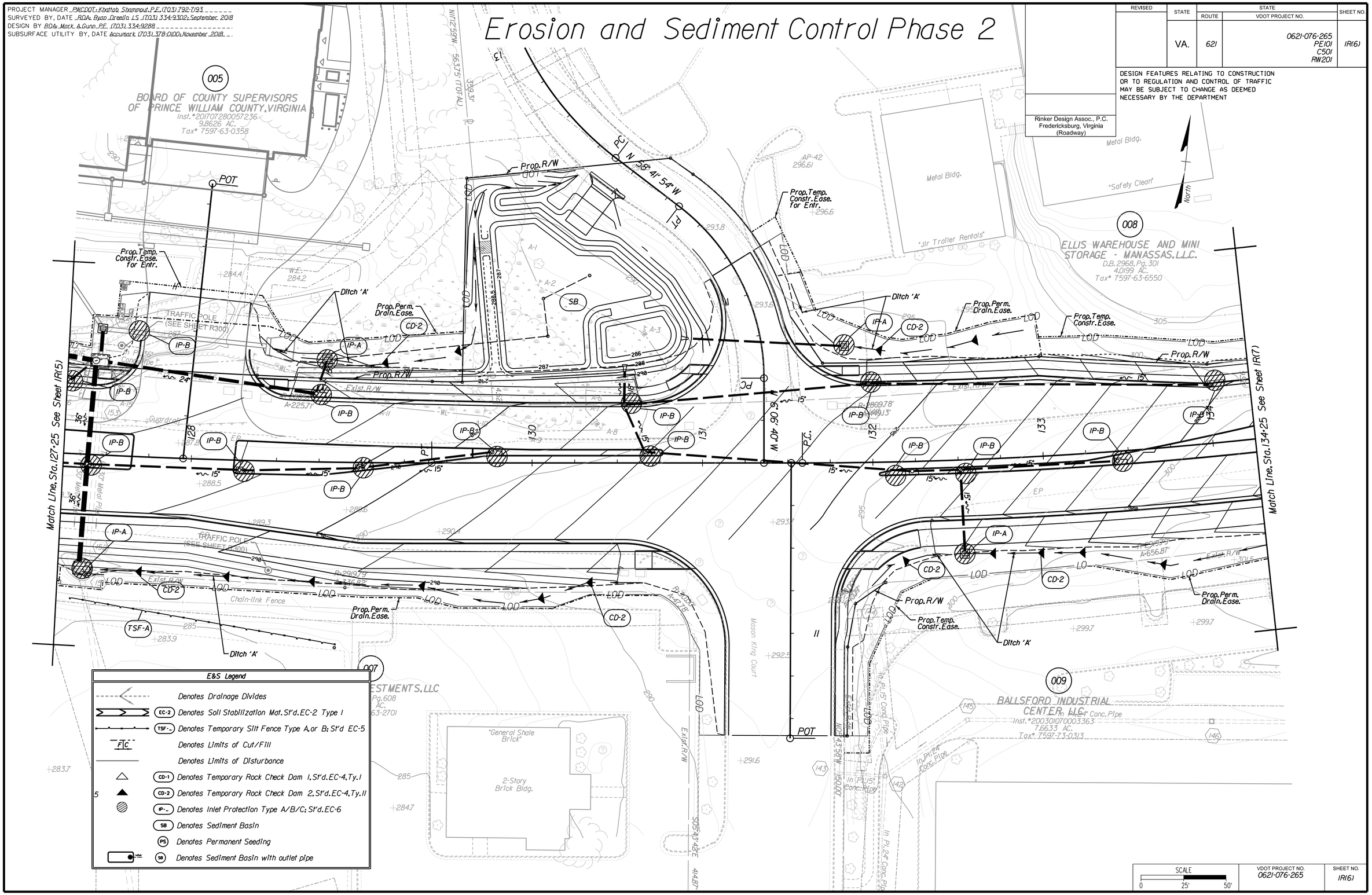

SCALE 0 25' 50'

VDOT PROJECT NO.	SHEET NO.
0621-076-265	IR(6)

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DESIGN BY RDA: Mark A. Gunn, P.E. (703) 334-9288
SUBSURFACE UTILITY BY, DATE Accumark (703) 378-0100: November, 2018

Erosion and Sediment Control Phase 2

REVISED	STATE	ROUTE	STATE VDOT PROJECT NO.	SHEET NO.
	VA.	621	0621-076-265 PE101 C501 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.
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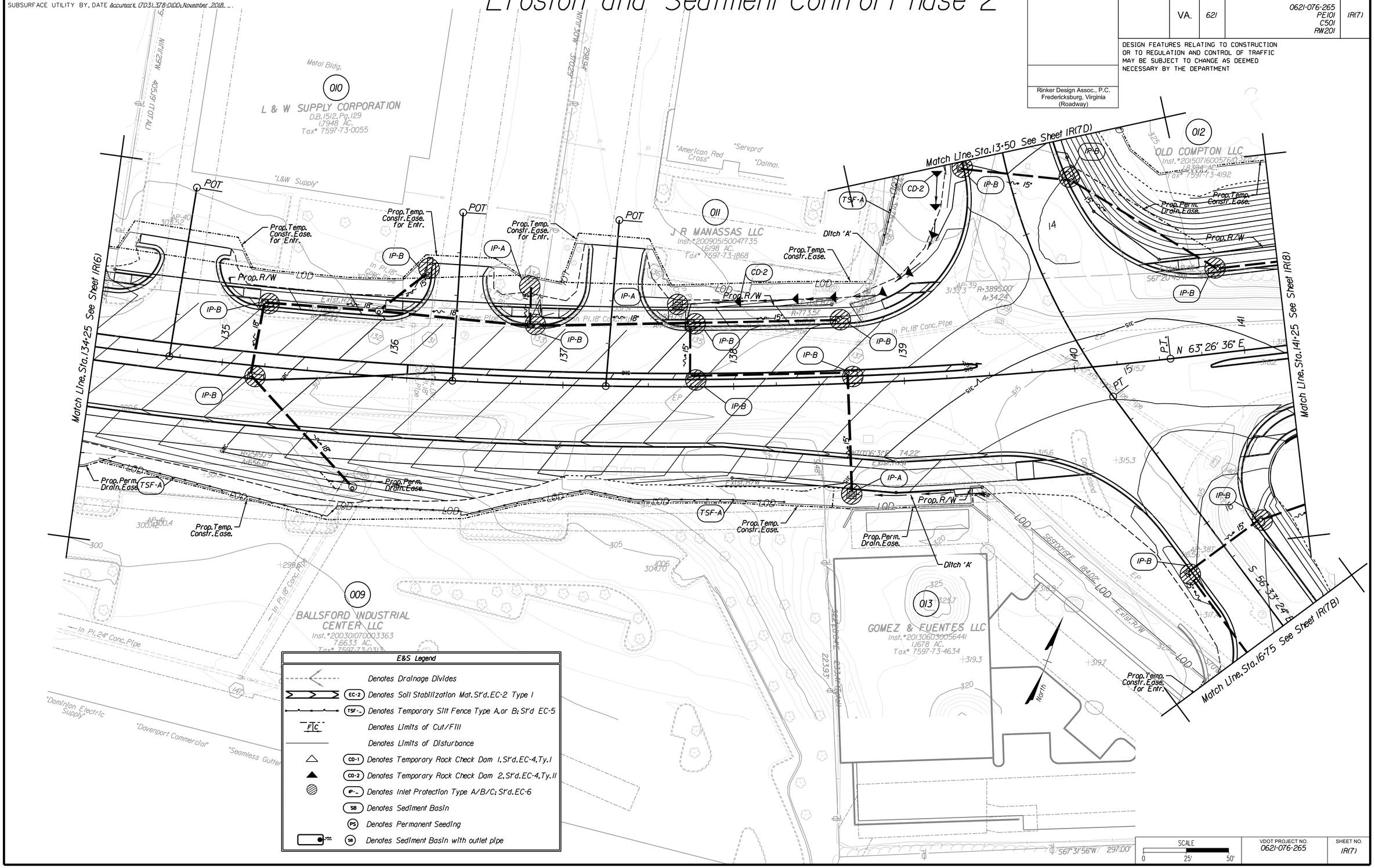
(Roadway)



E&S Legend

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IP-_	Denotes Inlet Protection Type A/B/C; St'd. EC-6
SB	Denotes Sediment Basin
PS	Denotes Permanent Seeding
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SCALE 0 25' 50'

VDOT PROJECT NO.	SHEET NO.
0621-076-265	IR(7)

ADDITIONAL EASEMENTS FOR UTILITY RELOCATIONS MAY BE REQUIRED BEYOND THE PROPOSED RIGHT-OF-WAY SHOWN ON THESE PLANS

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Roanoke, VA 24018 Phone: (540) 772-4928 Fax: (540) 772-4929
Virginia Beach, VA 23462 Phone: (757) 490-9283 Fax: (757) 490-9287

3/25/2019

PROJECT MANAGER PWCDOT: Khattab Shammout, P.E. (703) 792-7193
SURVEYED BY, DATE RDA: Ryan Dreella LS (703) 334-9302: September 2018
DESIGN BY RDA: Mark A. Gunn, P.E. (703) 334-9288
SUBSURFACE UTILITY BY, DATE Accumark (703) 378-0100: November 2018

REVISED	STATE	STATE ROUTE	STATE VDOT PROJECT NO.	SHEET NO.
	VA.	621	0621-076-265 PE101 C501 RW201	IR(7B)

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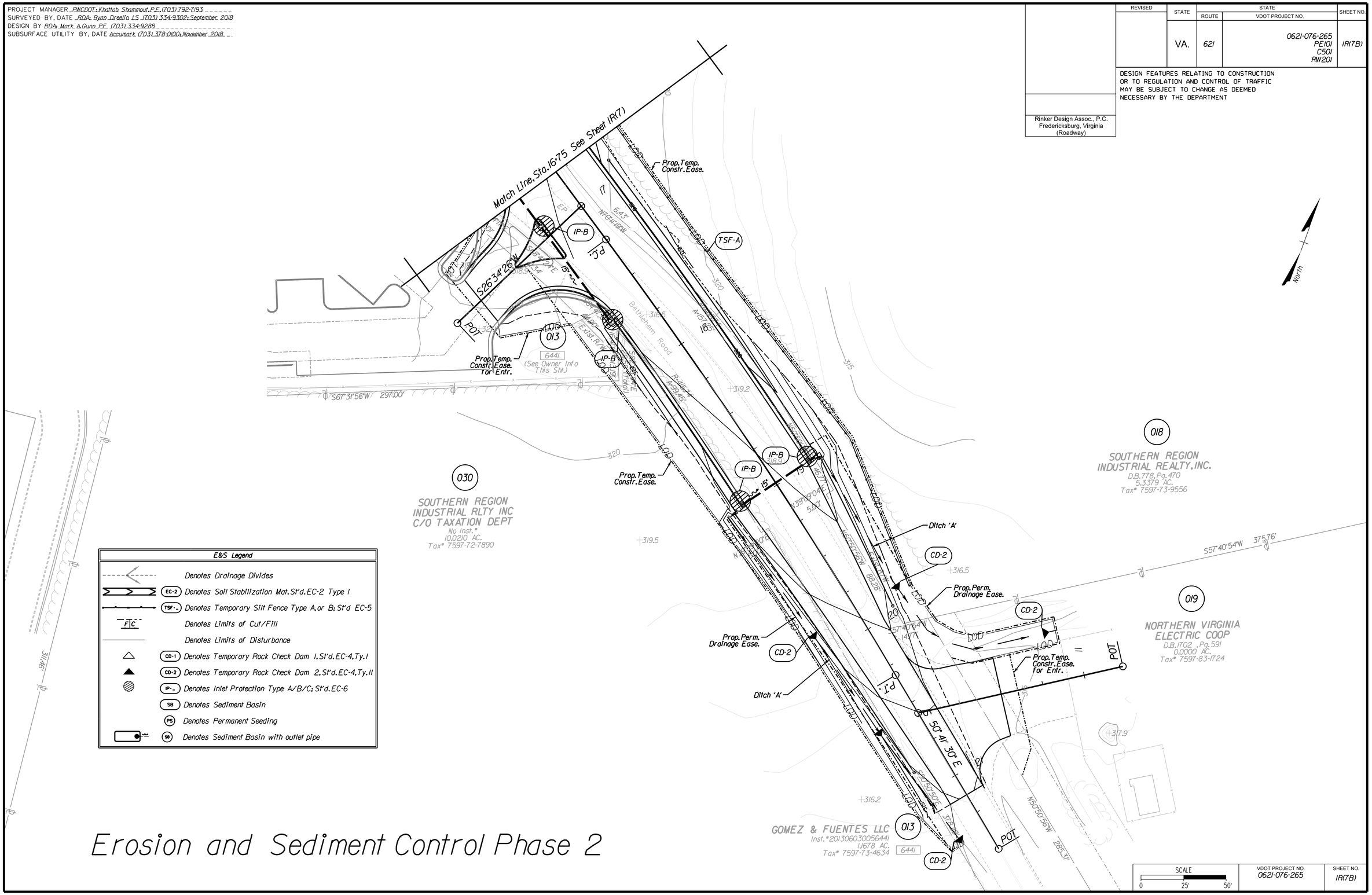

Erosion and Sediment Control Phase 2

SCALE	VDOT PROJECT NO.	SHEET NO.
0 25' 50'	0621-076-265	IR(7B)

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Erosion and Sediment Control Phase 2

REVISED	STATE	ROUTE	STATE VDOT PROJECT NO.	SHEET NO.
	VA.	621	0621-076-265 PE101 C501 RW201	IR(7D)

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032 HISH FAMILY REALTY LIMITED PTNSHP
Deed Book: 1706 Page: 0546
3.0000 AC.
Tax# 7597-73-0292

031 OLD COMPTON LLC
Inst.# 201507160057610
1.8394 AC.
Tax# 7597-73-4192

010 L & W SUPPLY CORPORATION
D.B. 1512, Pg. 129
1.7948 AC.
Tax# 7597-73-0055

011 J R MANASSAS LLC
Inst.# 200905150047735
1.6198 AC.
Tax# 7597-73-1868

014 OLD COMPTON LLC
Inst.# 201507160057610
0.4845 AC.
Tax# 7597-73-4881

012 OLD COMPTON LLC
Inst.# 201507160057610
1.8394 AC.
Tax# 7597-73-4192

"Joyce Koons Auto Body"
2-Story Brick Bldg.
"ion Service"
Chainlink Fence
Old Compton Road
Prop. R/W
Prop. Temp. Constr. Ease.
Ditch 'A'
TSF-A
CD-2
POT 10+00.00
POT 11+35.6
S 70° 51' E
N78°48'30"E 212.13'
N78°48'30"E 250.00'
N82°51'45"E 210.64'
N82°56'51"E 210.83'
N82°56'14"E
S70°06'29"E 222.00'
Match Line, Sta. 13+50 See Sheet IR(7)

North

SCALE 0 25' 50'

VDOT PROJECT NO.	SHEET NO.
0621-076-265	IR(7D)

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SUBSURFACE UTILITY BY, DATE Accumark (703) 378-0100: November 2018

Erosion and Sediment Control Phase I

REVISED	STATE	ROUTE	STATE VDOT PROJECT NO.	SHEET NO.
	VA.	621	0621-076-265 PE101 C501 RW201	IR(8)

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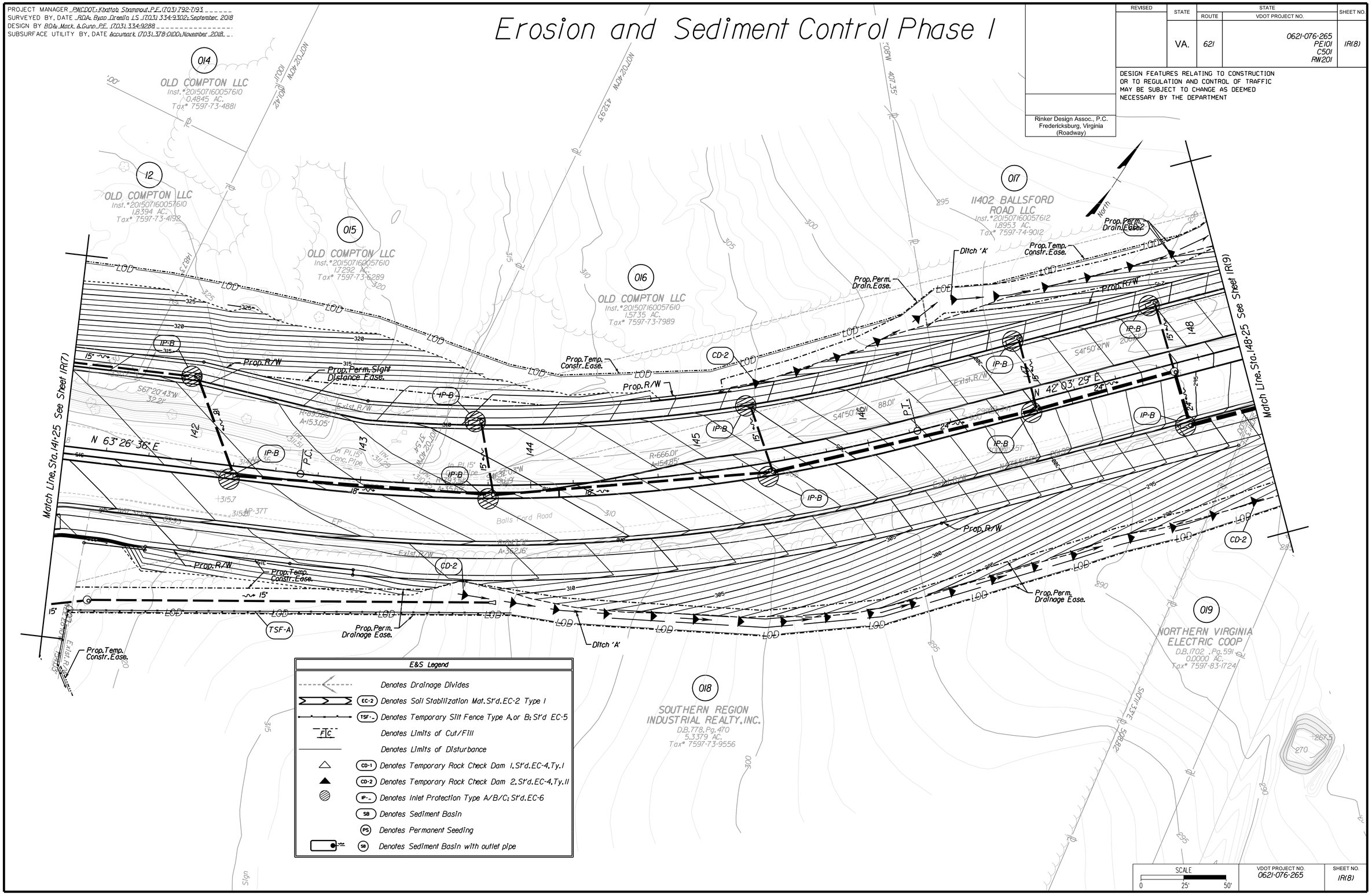
(Roadway)



SCALE	VDOT PROJECT NO.	SHEET NO.
0 25' 50'	0621-076-265	IR(8)

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Fairfax, Virginia
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SUBSURFACE UTILITY BY, DATE Accumark (703) 378-0100, November 2018

Erosion and Sediment Control Phase 2

REVISED	STATE	ROUTE	STATE VDOT PROJECT NO.	SHEET NO.
	VA.	621	0621-076-265 PE101 C501 RW201	1R(9)

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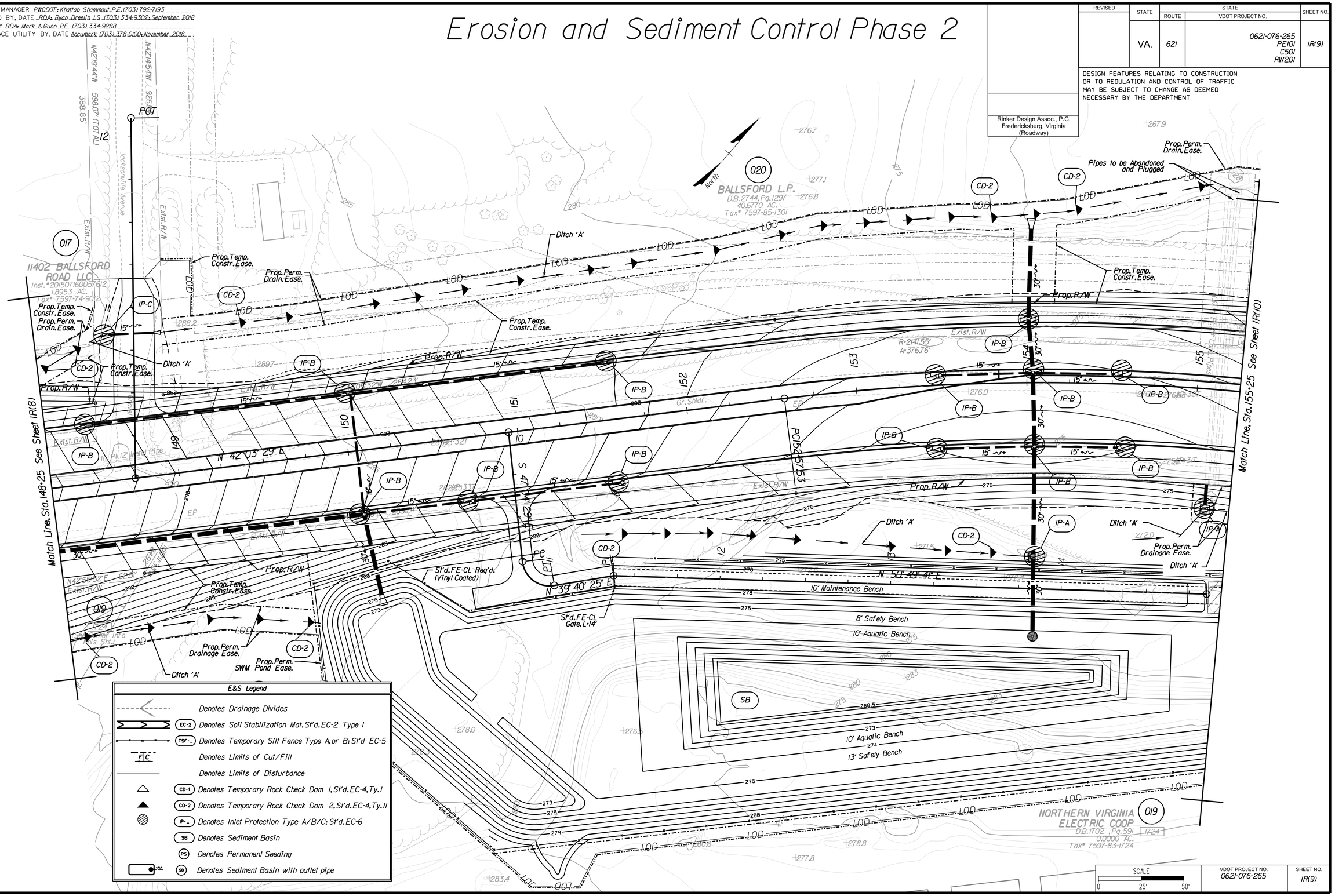

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SCALE	VDOT PROJECT NO.	SHEET NO.
0 25' 50'	0621-076-265	1R(9)

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SUBSURFACE UTILITY BY, DATE Accumark (703) 378-0100, November, 2018

Erosion and Sediment Control Phase 2

REVISED	STATE	ROUTE	STATE VDOT PROJECT NO.	SHEET NO.
	VA.	621	0621-076-265 PE101 C501 RW201	IR(10)

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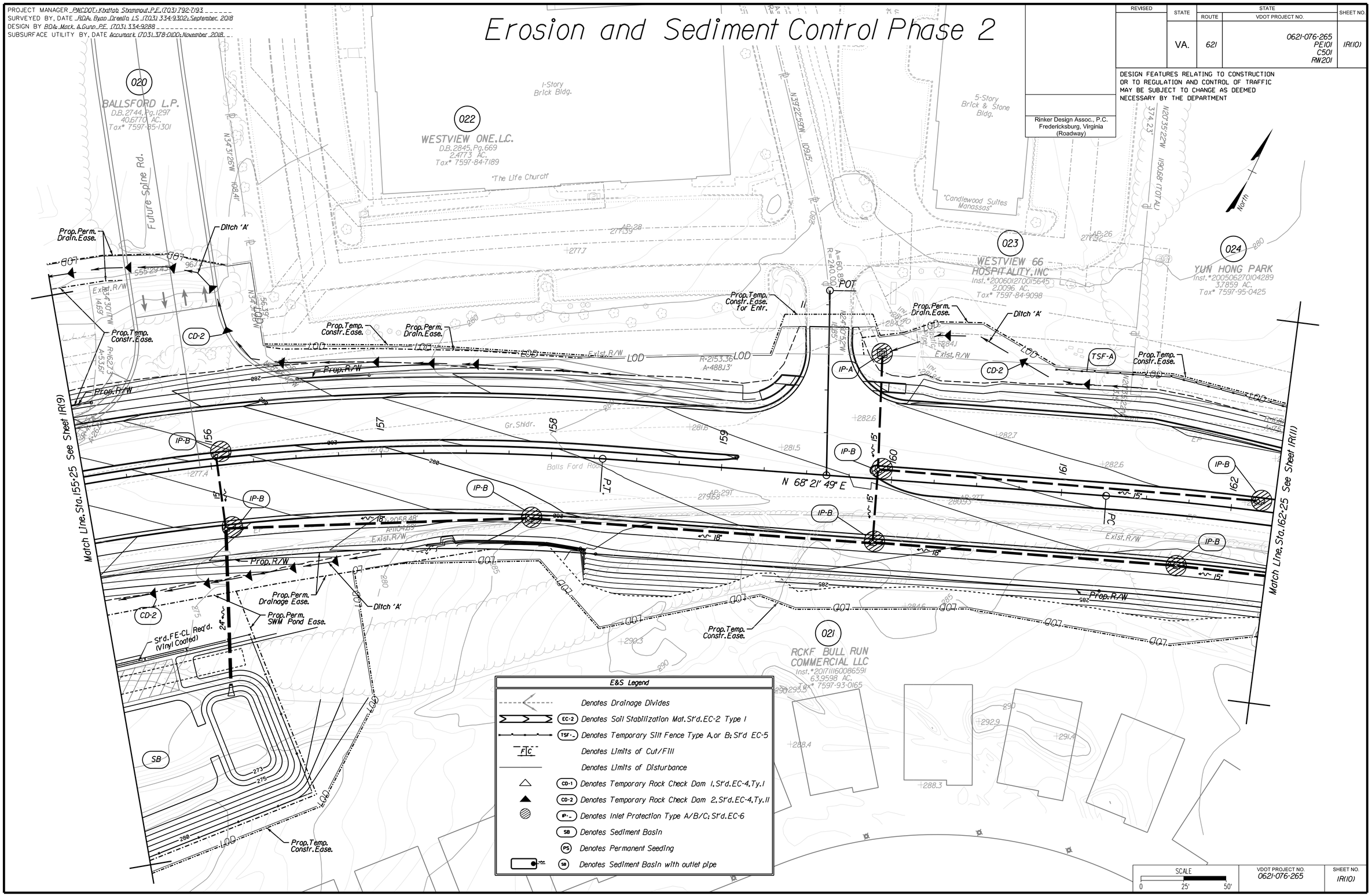

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SCALE 0 25' 50'

VDOT PROJECT NO.	SHEET NO.
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Erosion and Sediment Control Phase 2

REVISED	STATE	ROUTE	STATE VDOT PROJECT NO.	SHEET NO.
	VA.	621	0621-076-265 PE101 C501 RW201	IR(11)

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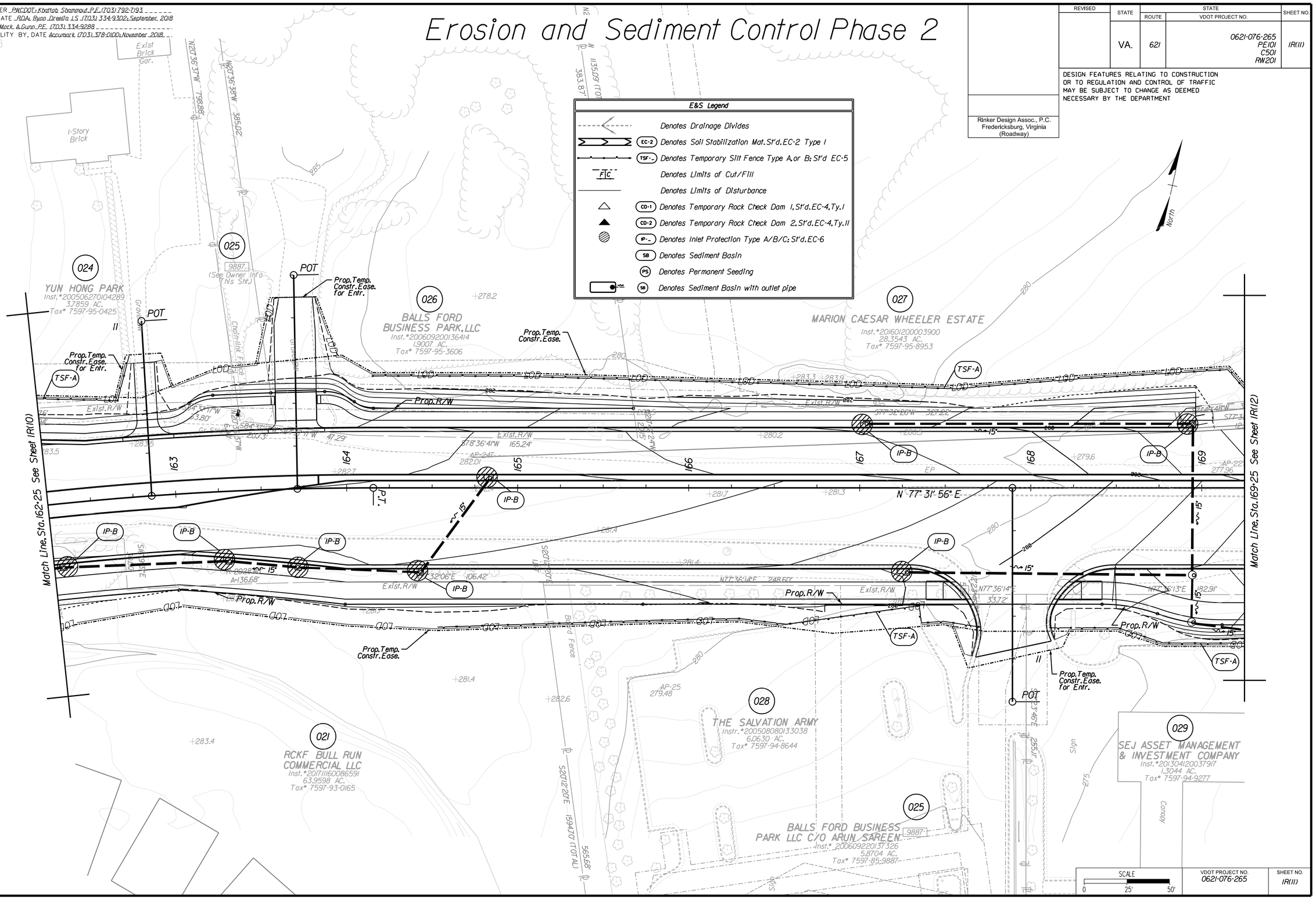

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Erosion and Sediment Control Phase 2

REVISED	STATE	ROUTE	STATE VDOT PROJECT NO.	SHEET NO.
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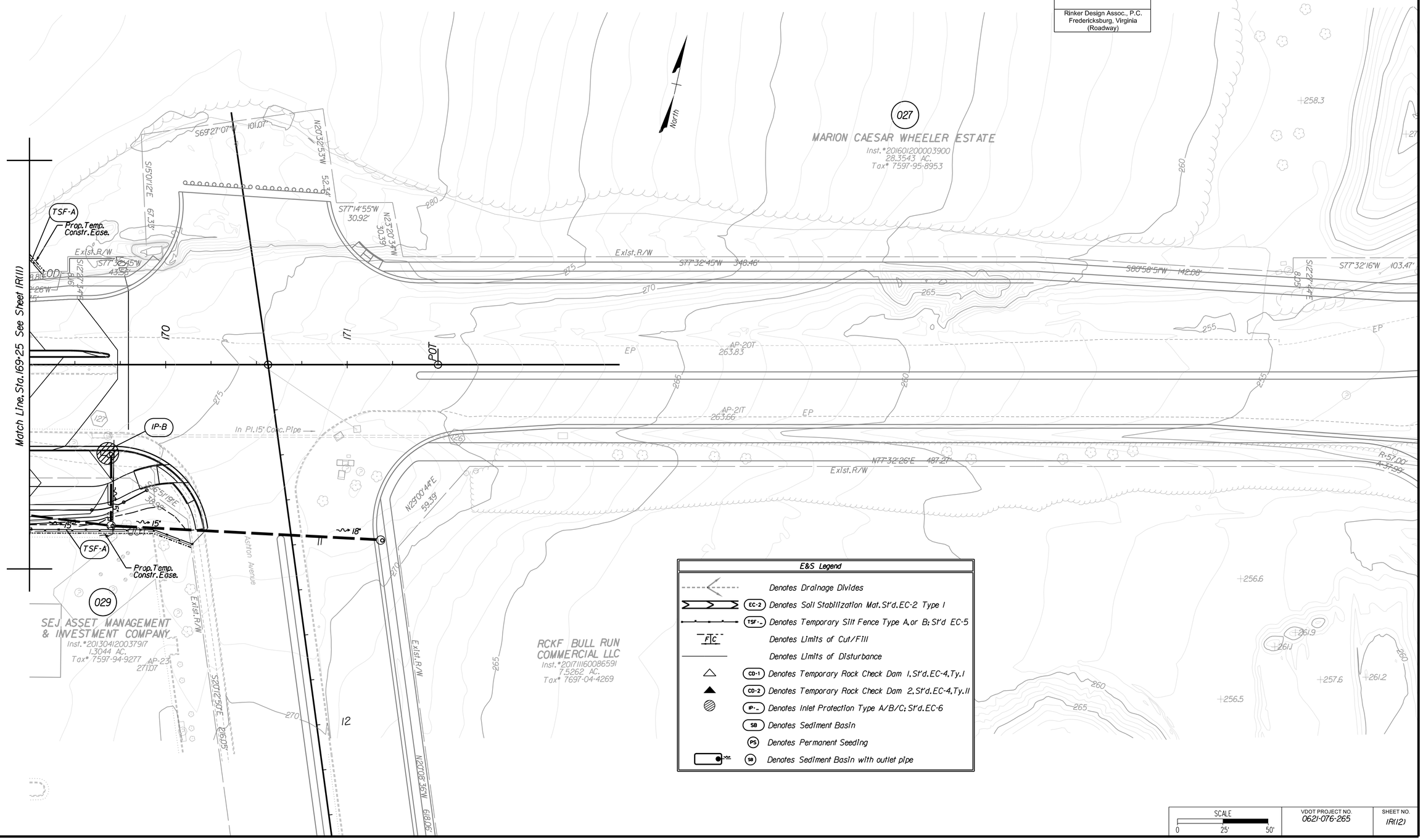

SCALE	VDOT PROJECT NO.	SHEET NO.
0 25' 50'	0621-076-265	IR(12)

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3/25/2019

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Phoenixville: 305 Eagleview Blvd. Suite 200 Exton, PA 19341 Phone: (610) 363-8010 Fax: (610) 363-8611
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Blue Bell: 105 Maria Drive Blue Bell, PA 19422 Phone: (215) 646-8300 Fax: (215) 646-8305
Lancaster: 2140 Lititz Pike Lancaster, PA 17601 Phone: (717) 560-5508 Fax: (717) 560-5511
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VDOT General Notes

REVISED	STATE	STATE ROUTE	STATE VDOT PROJECT NO.	SHEET NO.
	VA.	621	0621-076-265 PE101 C501 RW201	2

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

GRADING

G-1 The grade line denotes top of finished pavement unless shown otherwise on typical sections or plans.

G-2 ~~Earthwork quantities on this project are based on anticipated settlement and may require adjusting during construction.~~

G-3 Earthwork quantities on this project are based on anticipated settlement and may require adjusting during construction. Payment will be made only for quantities actually moved.

G-4 The cost of removal of all existing concrete items located in the area to be graded, including, but not limited to the following, shall be included in the price bid for regular excavation: Light pole foundations, storm structures and pipes, sidewalk, curb, and curb and gutter, sanitary manholes.

G-5 The excavation of unsuitable material as specified on these plans is based on previously conducted subsurface soil investigation. If, during construction, it is deemed necessary to change the depth more than one foot, or the limits of such excavation, such change is to be made at the direction of the Engineer and measurement and payment shall be made in accordance with Section 303 of the applicable VDOT Road and Bridge Specifications.

G-6 The borrow material for this project shall be a minimum CBR_____ or as approved by the Materials Engineer.

G-7 Material from regular excavation which is suitable for stabilization with hydraulic cement (lime) shall be placed in the top portion of the subgrade.

PAVEMENT

P-1 If any settlement occurs in concrete pavement adjacent to bridges prior to acceptance of the project by the Department, the contractor shall restore the pavement to the original grade either by the mud jack method or by replacing the pavement. In the event the pavement cracks or becomes damaged, it shall be replaced, if directed by the Engineer.

P-2 The pavement materials on this project will be paid for on a tonnage basis. The weight will vary in accordance with the specific gravity of the aggregates and the asphaltic content of the mix actually used to secure the design depth. The weight of the asphalt concrete is based on 95% of the theoretical maximum density.

INCIDENTALS

I-1 ~~Two Reflectorized Railroad Grade Crossing Crossbuck Signs, complete with posts, SHALL BE FURNISHED AND ERECTED BY THE RAILROAD COMPANY.~~

I-2 ~~Two Reflectorized Railroad Advance Warning Signs W10-1 complete with two approved posts, WILL BE FURNISHED AND ERECTED BY STATE FORCES.~~

I-3 Service Roads are to be constructed, and private entrances connected thereto prior to the permanent severing of private entrances by other phases of the proposed construction.

I-4 ~~All trees located within the Clear Zone or within a minimum of 30 feet of the edge of pavement, within the limits of the right of way or construction easement, unless otherwise noted on plans or directed by the Engineer, shall be removed, as provided for a Section 301 of the applicable VDOT Road and Bridge Specifications.~~

I-5 That portion of the right of way lying within the Clear Zone or within a minimum of 10 feet from the edge of pavement or surfacing or within the limits of the construction slopes beyond 10 feet, shall be cleared and grubbed in accordance with the applicable VDOT Road and Bridge Specifications, Section 301, where sufficient right of way or construction easement is provided.

I-6 Certain trees shall be preserved as noted on plans or as directed by the Engineer.

I-7 Where Standard slope roundoffs would damage trees, bushes or other desirable vegetation, they shall be omitted when so ordered by the Engineer.

I-8 ~~All fruit trees between station . . . and station . . . ., lying within the right of way, shall be removed and destroyed. These trees shall be removed and destroyed as soon as possible after the contractor actually commences work. The cost of this work shall be included in the price bid for clearing and grubbing.~~

I-8A ~~Clearing and grubbing shall be confined to those areas needed for construction. No trees or shrubs in ungraded areas shall be cut without the permission of the Engineer. Sta. . . . to Sta. . . .~~

I-9 When no centerline alignment is shown for a proposed entrance, the entrance shall be constructed in the same location as the existing entrance.

I-10 ~~St'd. RM-1 Right of Way monuments shall be set by the Contractor.~~

I-12 St'd. RM-2 right of way monuments shall be set by the Contractor.

I-13 ~~Salvaged guardrail materials not used in the new construction shall become the property of the Department and the Contractor shall deliver and store, at no additional cost to the Department, the unused materials at the Department's maintenance yard at _____ during the Department's normal working hours.~~

I-14 Salvaged guardrail materials not used in the new construction shall become the property of the Contractor and shall be disposed of at a licensed landfill, recycled or be retained by the Contractor.

I-15 Where Guardrail GR-MGS1 or GR-MGS2 is shown on the plans and in the summaries, either new guardrail or reused guardrail beam shall be used as provided elsewhere in these plans. The total quantities have been proportioned between new and reuse guardrail based on an estimate of the amount of existing beam that is reuseable. The Contractor will be paid for the actual quantities of Guardrail, St'd. GR-MGS1 or St'd. GR-MGS2 or Reuse Guardrail, St'd. GR-MGS1 or St'd. GR-MGS2 as determined by the Engineer.

I-16 The "underground utilities" survey data on this project has been provided by consultant and copies are available from the Department.

I-17 For method of constructing Straight-Line Taper Lanes in curb and/or curb and gutter sections, see typical details on Sheet ____.

I-18 All pavement markings and traffic flow arrows shown on the roadway construction plans are schematic only. The actual location and application of pavement markings shall be in accordance with Section 704 of the applicable VDOT Road and Bridge Specifications, MUTCD, sequence of construction/traffic control plans, pavement marking plan sheets ... thru ... and as directed by the Engineer.

I-19 The following outside sources, under contract with VDOT, have provided information on this project.

Hydraulic Design	- Rinker Design Assoc., P.C.
Roadway Design	- Rinker Design Assoc., P.C.
Utility Design	- Rinker Design Assoc., P.C. & Utility Companies (See Plans)
Utility Designation	- Accumark Inc.
Utility Location	- Accumark & Rinker Design Assoc., P.C.
Survey	- Quantium Spacial & Rinker Design Assoc., P.C.
Bridge Design	- Not Applicable
Traffic Design	- Rinker Design Assoc., P.C.
Landscape Design	- Not Applicable

If questions or problems arise during construction, please contact the Area Construction Engineer. DO NOT CONTACT THE OUTSIDE SOURCES.

INCIDENTALS CONTINUED . . .

I-20 The Official Electronic PDF Version of the plans will override the paper copies or prints of specific layers.

Portions of this plan assembly have been CADD generated. To assist in the preparation of the bid and construction of the project, Microstation format (.dgn) files will be made available to the prime contractor during bids and after award of the contract.

I-21 All electronic plan assemblies will include the construction plans in two formats: PDF files and MicroStation format (.dgn) files. Only the PDF files will be considered as part of the official plan assembly.

The MicroStation format (.dgn) files are furnished only as information for the contractor. These plans are developed in layers (levels) to aid in readability. (See the VDOT CADD Manual for CADD Level Structure). However, the construction items may or may not be in the proper layering scheme as described in the VDOT CADD Manual. The Microstation files will only match the scanned files if all required levels are turned on. A Microstation Software license is required to be able to read these files.

STORMWATER MANAGEMENT

S-1 CLEARING AND GRUBBING OF SWM BASIN SITE - The area where the dam is to be constructed and the area upstream of the dam, to an elevation equal to the crest of the dam (maximum ponded water elevation), shall be cleared and grubbed in accordance with Section 301 of the applicable VDOT Road and Bridge Specifications.

S-2 SWM BASIN DAM CONSTRUCTION - The dam for detention basins (no permanent pool) shall conform to the details contained in the plans and shall be constructed in accordance with Section 303 of the applicable VDOT Road and Bridge Specifications. The native material on which the dam will set shall meet the specifications for AASHTO Type A-4 or finer material. Where the native material does not meet this requirement, the area beneath the dam is to be excavated a minimum of 4' and backfilled with a material meeting the AASHTO Type A-4 or finer classification unless otherwise specified in the plans. The material used for the embankment of the dam shall be AASHTO Type A-4 or finer or otherwise specified in the plans. Dams with foundation and embankment material not meeting the above requirements or dams greater than 15' in height, or dams for retention basins (permanent pool) shall incorporate a membrane-lined trench, a homogenous embankment with seepage controls, a zoned embankment or other such approved designs as specified in the plans.

S-3 SWM BASIN OUTLET PIPE - The pipe culvert under or through the dam for detention basins (no permanent pool) shall be reinforced concrete pipe with rubber gaskets in accordance with Section 232 and 212 of the applicable VDOT Road and Bridge Specifications. A concrete cradle shall extend the full length of the pipe culvert in accordance with the Standard Drawings. The connection between the pipe culvert and the SWM-1 Drainage Structure (or other control structure) shall be made watertight as approved by the Engineer and the cost shall be included in the price bid for pipe.

S-4 The SWM-1 Drainage Structure (or other control structure) shall have 4" high numbers and 1" wide stripes painted at 1' intervals as shown on the Standard Drawings or detail sheets. The numbers and stripes are to be installed at the time of the initial installation of the SWM-1 Drainage Structure (or other control structure). Paint and application shall be in accordance with Section 231 and 411 of the applicable VDOT Road and Bridge Specifications and the cost is to be included in the price bid for the applicable structure.

DRAINAGE

D-1 The horizontal location of all drainage structures shown on these plans is approximate only, with the exception of structures showing specific stations, special design bridges and storm sewer systems.

D-2 The horizontal location and invert elevations shown for proposed culverts and storm sewer outfall pipes are based on existing survey data and required design criteria. If during construction, it is found that the horizontal location or invert elevations shown on the plans differ significantly from the horizontal location or elevations of the stream or swale in which the culvert or storm sewer outfall pipe is to be placed, the Engineer shall confer with, and get approval from, the applicable District Drainage Engineer before installing the culvert or storm sewer outfall pipe.

D-3 The "H" dimensions shown on plans for drop inlets and junction boxes and the "L.F." dimensions shown for manholes are for estimating purposes and are based on the proposed invert elevations shown for the structure and the anticipated top (rim) elevation based on existing or proposed finished grade. The actual "H" or "L.F." dimensions are to be determined by the contractor from field conditions.

D-6 Pipes shall conform to any of the allowable types shown on sheet number (specify sheet number), within the applicable height of cover limitations. For strength, sheet thickness, or class designation; available sizes; height of cover limitations; and other restrictions for a particular pipe type or height of cover, see the VDOT Road and Bridge Standard PC-1. Structural plate pipe may be substituted for corrugated pipe of the same size, provided the substitution complies with the applicable sections of the VDOT Road and Bridge Standards PC-1.

D-10 The proposed riprap may be omitted by the Engineer if the slope designated for placement of riprap is found to be comprised of solid rock or closely consolidated boulders with soundness, size and weight equal to, or exceeding, the specifications for the proposed riprap.

D-12 All existing drainage facilities labeled "To Be Abandoned" shall be left in place, backfilled and plugged in accordance with the VDOT Road and Bridge Standard PP-1. Basis of Payment will be C.Y. of Flowable Backfill.

D-13 Existing drainage facilities being utilized as a part of the drainage system, and designated on the plans "To Be Cleaned Out" shall be cleaned as directed by the Engineer. The cost incidental to this shall be included in the contract price for other items.

D-14 Proposed drop inlets with a height (H) less than the standard minimum shown in the VDOT Road and Bridge Standards shall be considered and paid for as Standard Drop Inlets for the type specified. Pipes with less than standard minimum finished height of cover shall be noted as such in the drainage description for the pipe. Specific pipe bedding and cover requirements are provided in the applicable PB-1 and PC-1 standard drawings of the VDOT Road and Bridge Standards.

D-16 When CG-6 or CG-7 is specified on a radius (such as at a street intersection), the Engineer may approve a decrease in the cross slope of the gutter to facilitate proper drainage.

D-17 St'd. SL-1 Safety Slab locations are based on the assumed use of precast structures. If cast-in-place structures are utilized, and the interior chamber dimensions (length and width, or diameter) are less than 4 feet, the safety slabs shall not be installed.

EROSION AND SEDIMENT CONTROL (ESC)

E-1 If the removal of Brush Silt Barrier is specified by the plans or required by the Engineer, the cost of removal and disposal of brush shall be in accordance with Section 109 of the applicable VDOT Road and Bridge Specifications.

E-2 Rock for Check Dams, Inlet Protection, Erosion Control Stone and Riprap shall be in accordance with Section 203 and Section 414 of the applicable VDOT Road and Bridge Specifications.

E-3 The following symbols are used to depict Erosion Control items in the plan assembly:

EC-2, Ty. 1 / EC-2, Ty. 2 / EC-2, Ty. 3 / EC-2, Ty. 4	Denotes Rolled Erosion Control Product, Temporary, St'd. EC-2 Type 1, 2, 3 or 4
EC-3, Ty. 1 / EC-3, Ty. 2 / EC-3, Ty. 3	Denotes Rolled Erosion Control Product, Permanent, St'd. EC-3 Type 1, 2 or 3
TSF-A / TSF-B	Denotes Temporary Silt Fence, St'd EC-5 Type A or B
TDC	Denotes Temporary Diversion Channel, St'd EC-12
DD	Denotes Temporary Diversion Dike, St'd EC-9
TC-I	Denotes Turbidity Curtain, Type - Impervious
TC-P	Denotes Turbidity Curtain, Type - Pervious
RCD-1	Denotes Rock Check Dam, Type I; St'd EC-4
RCD-2	Denotes Rock Check Dam, Type II; St'd EC-4
IP-A	Denotes Inlet Protection, Type A; St'd EC-6
IP-B	Denotes Inlet Protection, Type B; St'd EC-6
TSI	Denotes Slope Interrupter; St'd EC-15

VDOT PROJECT NO.	SHEET NO.
0621-076-265	2

ADDITIONAL EASEMENTS FOR UTILITY RELOCATIONS MAY BE REQUIRED BEYOND THE PROPOSED RIGHT-OF-WAY SHOWN ON THESE PLANS

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P.H. PLANS

PROJECT MANAGER PWCDOT: Khattab Shammout, P.E. (703) 792-7193
SURVEYED BY, DATE RDA: Ryan Dreella LS (703) 334-9302: September, 2018
DESIGN BY RDA: Mark A. Gunn, P.E. (703) 334-9288
SUBSURFACE UTILITY BY, DATE Accumark (703) 378-0100: November 2018

Typical Sections

REVISED	STATE	STATE ROUTE	STATE VDOT PROJECT NO.	SHEET NO.
	VA.	621	0621-076-265 PE101 C501 RW201	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

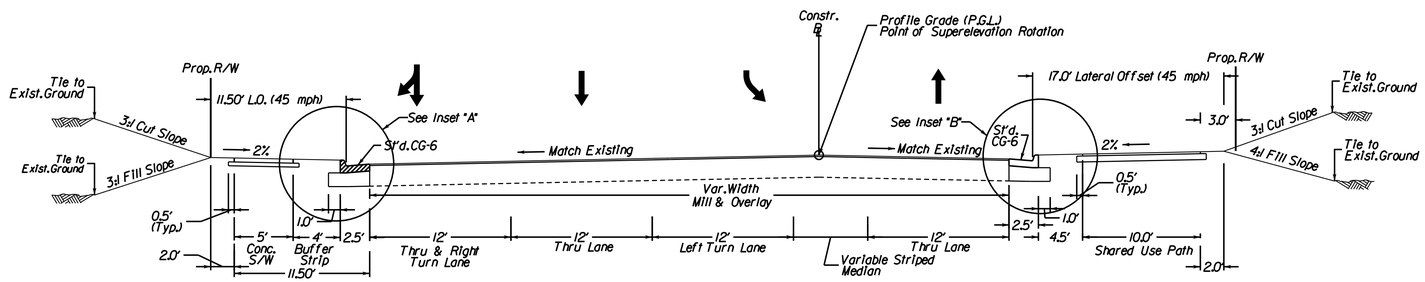
Rinker Design Associates, P.C.
Fredericksburg, Virginia
(Roadway)

Rinker Design Associates, P.C.
Civil Engineering - Surveying - Land Planning
Transportation - Environmental
Right of Way Services
Office Locations
Fredericksburg, VA 22407 Phone: (540) 373-1400 Fax: (540) 373-0177
4101 Dickerson Boulevard Suite 210 Manassas, VA 20110 Phone: (703) 335-0000 Fax: (703) 335-0000
4101 Dickerson Boulevard Suite 210 Phone: (703) 335-0000 Fax: (703) 335-0000

Balls Ford Road, Rte. 621

Normal Crown, 4 Lane Street with Curb & Gutter

Geometric Design Standard for Urban Minor Arterial Street System (GS-6): V=45 MPH
(Not to Scale)

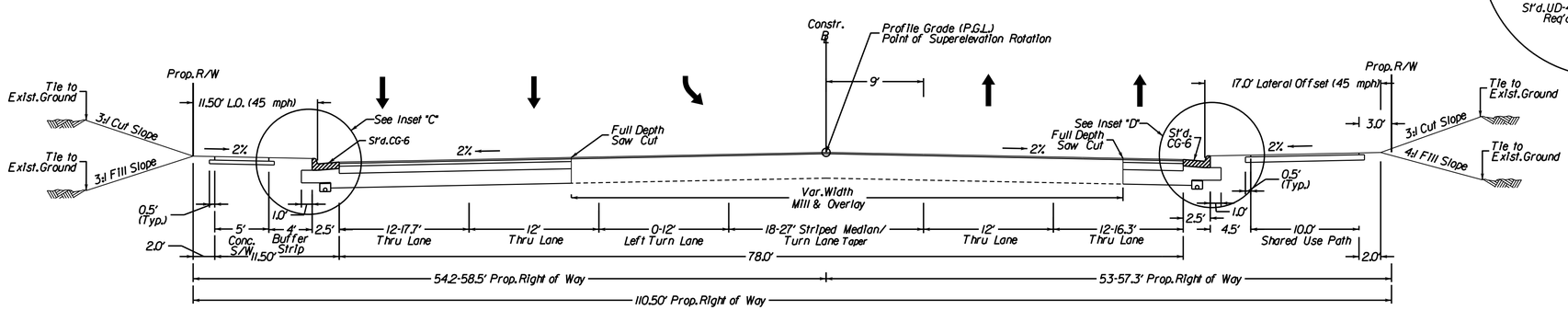


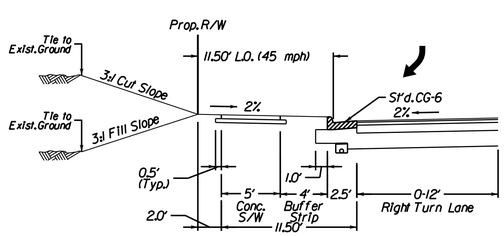
LOCATION	STATION	TO	STATION
Balls Ford Road	111+25.00		112+12.97

Balls Ford Road, Rte. 621

Normal Crown, 4 Lane Street with Curb & Gutter

Geometric Design Standard for Urban Minor Arterial Street System (GS-6): V=45 MPH
(Not to Scale)



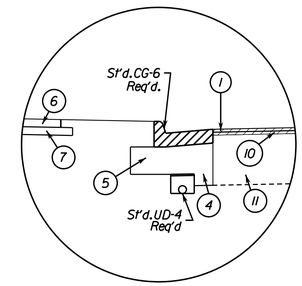


LOCATION	STATION	TO	STATION
Balls Ford Road	112+29.24		115+75.00

LOCATION	STATION	TO	STATION
Balls Ford Road	112+12.97		115+90.00

Inset "A"

(Not to Scale)



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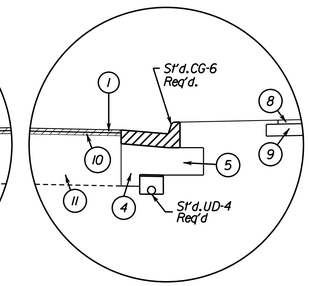

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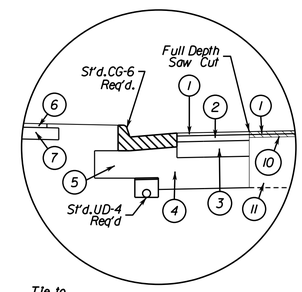

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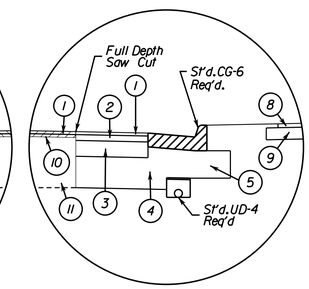

INSET DESIGN LEGEND

1. Surface Course - (1.5") Asph.Conc., Type SM-9.5D estimated @ 179.1 lbs/sq.yd.
2. Intermediate Course - (2") Asph.Conc., Type IM-19.0A estimated at 241.8 lbs/sq.yd.
3. Base Course - (6") Asph.Conc., BM-25.0A.
4. Sub-Base Course - 10" Aggr.Base Material, Type I, Size No.21-B, connect to a standard UD-4 edgedrain located below the curb and gutter.
5. Sub-Base Course - (Min.6") Aggr.Base Material, Type I, Size No.21-B
6. 4" Class A3 Concrete
7. 4" Aggregate Base Material, Type I Size 21B Extended 4" beyond concrete.
8. Surface Course - (2") Asph.Conc., Type SM-9.5A
9. 6" Aggregate Base Material, Type I, Size 21B. Extended 6" beyond the edge of asphalt concrete
10. Existing Pavement - Min.1.5" Mill Req'd. See ▨ Pattern.
11. Existing Asphalt Pavement Layer

TYPICAL SECTION NOTES

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

NOTE: PAVEMENT DETAILS ARE PRELIMINARY AND WILL BE UPDATED FOLLOWING COMPLETION OF GEOTECHNICAL RECOMENDATIONS.

VDOT PROJECT NO.	SHEET NO.
0621-076-265	2A(1)

ADDITIONAL EASEMENTS FOR UTILITY RELOCATIONS MAY BE REQUIRED BEYOND THE PROPOSED RIGHT-OF-WAY SHOWN ON THESE PLANS

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P.H. PLANS

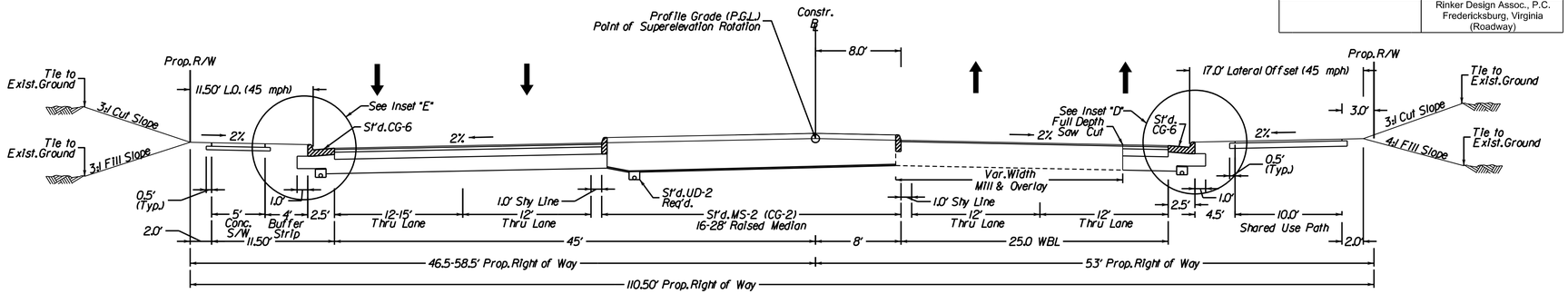
PROJECT MANAGER PWCDOT: Khattab Shammout, P.E. (703) 792-7193
SURVEYED BY, DATE RDA: Ryan Dreella LS (703) 334-9302: September 2018
DESIGN BY RDA: Mark A. Gunn P.E. (703) 334-9288
SUBSURFACE UTILITY BY, DATE Accumark (703) 378-0100: November 2018

Typical Sections

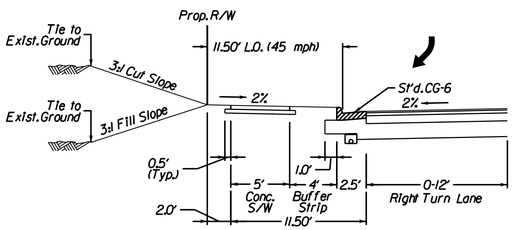
Balls Ford Road, Rte. 621

Normal Crown, 4 Lane Street with Curb & Gutter

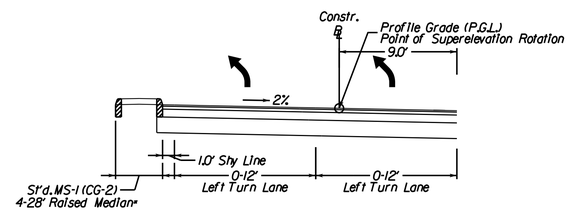
Geometric Design Standard for Urban Minor Arterial Street System (GS-6): V=45 MPH
(Not to Scale)



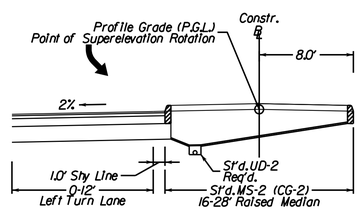
LOCATION	STATION	TO	STATION
Balls Ford Road	115+90.00		130+75.00



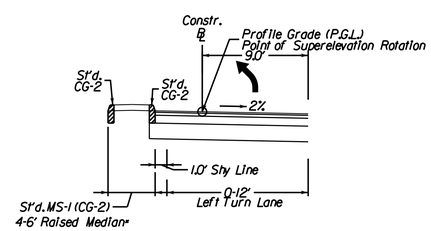
LOCATION	STATION	TO	STATION
Balls Ford Road	122+90.56		127+00.00



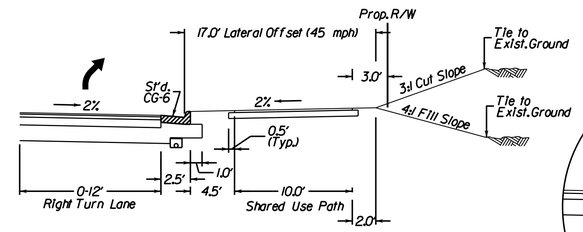
LOCATION	STATION	TO	STATION
Balls Ford Road	115+90.00		120+48.56



LOCATION	STATION	TO	STATION
Balls Ford Road	121+77.48		127+00.00



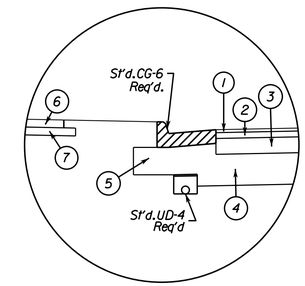
LOCATION	STATION	TO	STATION
Balls Ford Road	128+75.00		130+75.00



LOCATION	STATION	TO	STATION
Balls Ford Road	128+00.00		130+53.63

Inset "E"

(Not to Scale)



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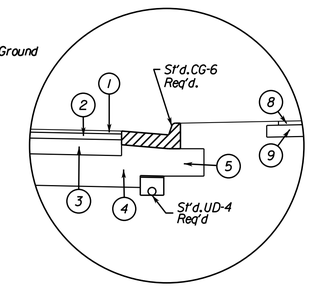

INSET DESIGN LEGEND

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7. 4" Aggregate Base Material, Type I Size 21B Extended 4" beyond concrete.
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10. Existing Pavement - Min. 1.5" Mill Req'd. See ▨ Pattern.
11. Existing Asphalt Pavement Layer

TYPICAL SECTION NOTES

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

NOTE: PAVEMENT DETAILS ARE PRELIMINARY AND WILL BE UPDATED FOLLOWING COMPLETION OF GEOTECHNICAL RECOMENDATIONS.

REVISED	STATE	ROUTE	VDOT PROJECT NO.	SHEET NO.
	VA.	621	0621-076-265 PE101 C501 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

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

Rinker Design Associates, P.C.
Civil Engineering - Surveying - Land Planning
Transportation - Environmental
Right of Way Services
Office Locations
Fredericksburg, VA 22407 Phone: (540) 373-1460 Fax: (540) 373-0497
Richmond, VA 23230 Phone: (804) 285-8150 Fax: (804) 285-8151
Roanoke, VA 24018 Phone: (540) 772-4928 Fax: (540) 772-4929
Front Royal, VA 22630 Phone: (540) 635-5030 Fax: (540) 635-5031

3/25/2019

VDOT PROJECT NO.	SHEET NO.
0621-076-265	2A(2)

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P.H. PLANS

PROJECT MANAGER PWCDOT: Khattab Shammout, P.E. (703) 792-7193
SURVEYED BY, DATE RDA: Ryan Dreella LS (703) 334-9302: September, 2018
DESIGN BY RDA: Mark A. Gunn, P.E. (703) 334-9288
SUBSURFACE UTILITY BY, DATE Accumark (703) 378-0100: November 2018

Typical Sections

REVISED	STATE	STATE ROUTE	STATE VDOT PROJECT NO.	SHEET NO.
	VA.	621	0621-076-265 PE101 C501 RW201	2A(3)

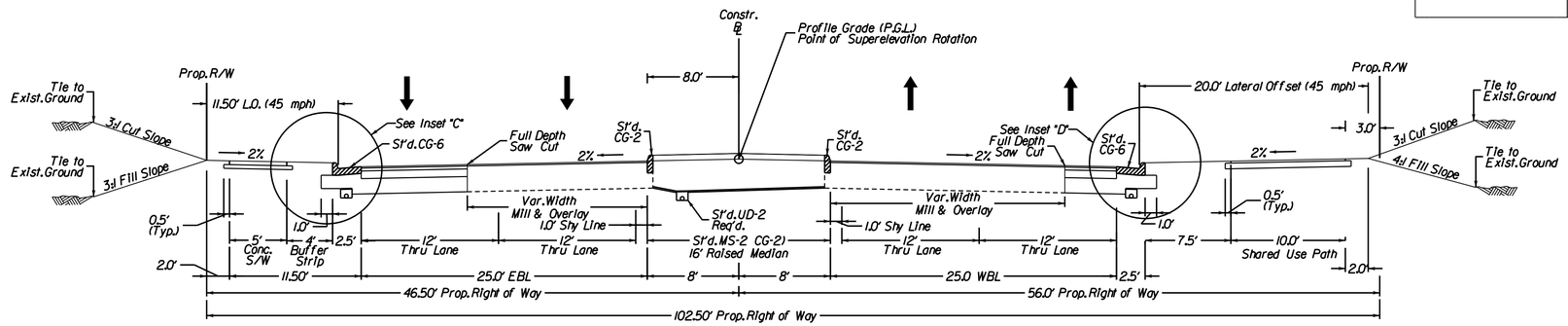
DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT

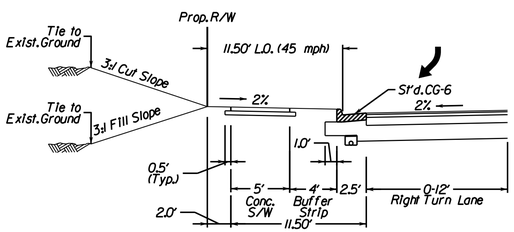
Rinker Design Assoc., P.C.
Fredericksburg, Virginia
(Roadway)

Balls Ford Road, Rte. 621

Normal Crown, 4 Lane Street with Curb & Gutter

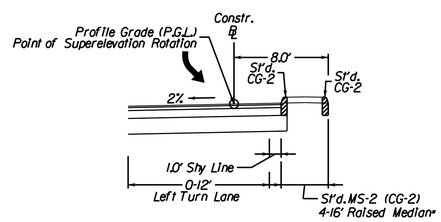
Geometric Design Standard for Urban Minor Arterial Street System (GS-6): V=45 MPH
(Not to Scale)



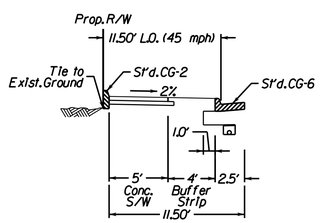


LOCATION	STATION	TO	STATION
Balls Ford Road	131+96.55		134+00.00
	140+71.83		143+00.00

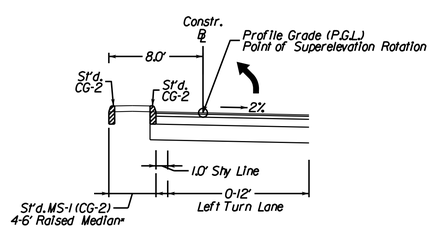
LOCATION	STATION	TO	STATION
Balls Ford Road	130+75.00		150+00.00



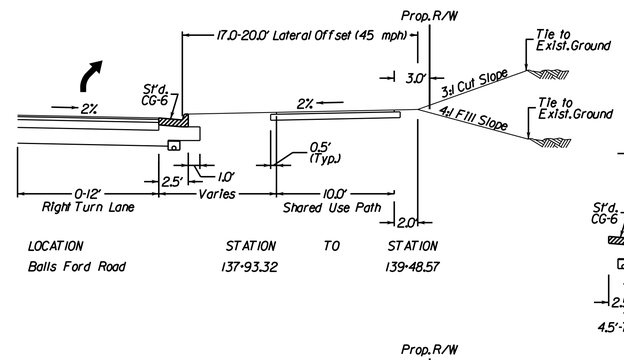
LOCATION	STATION	TO	STATION
Balls Ford Road	132+21.36		134+25.00
	140+94.93		145+00.00



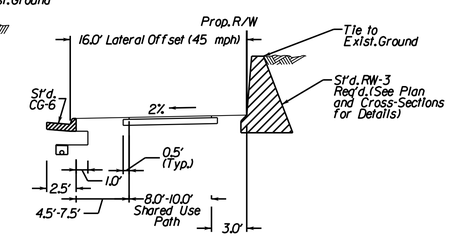
LOCATION	STATION	TO	STATION
Balls Ford Road	144+75.00		145+25.00



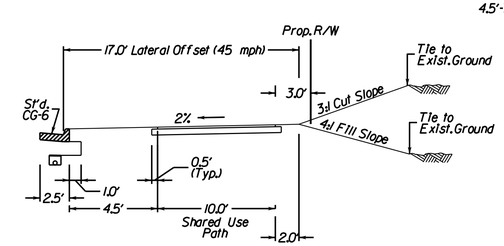
LOCATION	STATION	TO	STATION
Balls Ford Road	135+25.00		139+30.65



LOCATION	STATION	TO	STATION
Balls Ford Road	137+93.32		139+48.57



LOCATION	STATION	TO	STATION
Balls Ford Road	141+12.70		141+78.21



LOCATION	STATION	TO	STATION
Balls Ford Road	130+00.00		143+00.00

NOTE: PAVEMENT DETAILS ARE PRELIMINARY AND WILL BE UPDATED FOLLOWING COMPLETION OF GEOTECHNICAL RECOMENDATIONS.

VDOT PROJECT NO.	SHEET NO.
0621-076-265	2A(3)

ADDITIONAL EASEMENTS FOR UTILITY RELOCATIONS MAY BE REQUIRED BEYOND THE PROPOSED RIGHT-OF-WAY SHOWN ON THESE PLANS

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P.H. PLANS

Rinker Design Associates, P.C.
Civil Engineering - Surveying - Land Planning
Transportation - Environmental
Right of Way Services
Office Locations
Fredericksburg, VA 22407 Phone: (540) 373-1400 Fax: (540) 373-0417
Alexandria, VA 22314 Phone: (703) 548-8300 Fax: (703) 548-8306
Richmond, VA 23230 Phone: (804) 285-8300 Fax: (804) 285-8306
Roanoke, VA 24018 Phone: (540) 772-4930 Fax: (540) 772-4931

3/25/2019

PROJECT MANAGER PWCDOT: Khattab Shammout, P.E. (703) 792-7193
SURVEYED BY, DATE RDA: Ryan Dreella LS (703) 334-9302: September, 2018
DESIGN BY RDA: Mark A. Gunn, P.E. (703) 334-9288
SUBSURFACE UTILITY BY, DATE Accumark (703) 378-0100: November 2018

Typical Sections

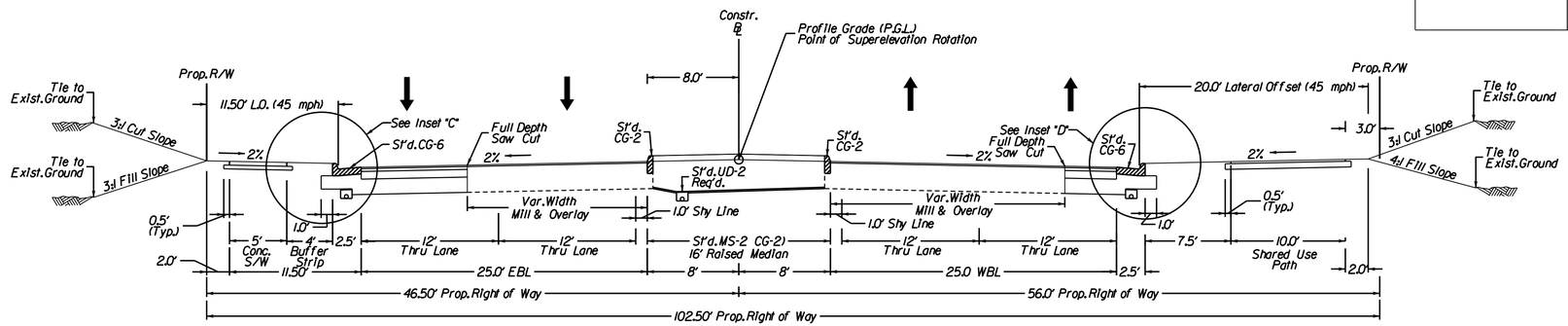
REVISED	STATE	STATE ROUTE	STATE VDOT PROJECT NO.	SHEET NO.
	VA.	621	0621-076-265 PE101 C501 RW201	2A(4)

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

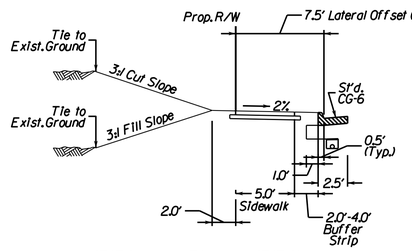
Rinker Design Assoc., P.C.
Fredericksburg, Virginia
(Roadway)

Balls Ford Road, Rte. 621
Normal Crown, 4 Lane Street with Curb & Gutter

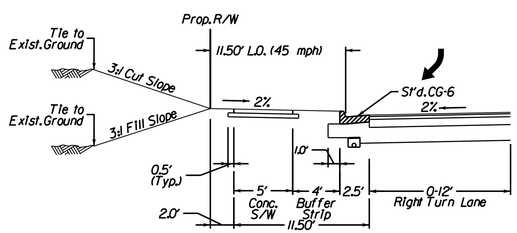
Geometric Design Standard for Urban Minor Arterial Street System (GS-6): V=45 MPH
(Not to Scale)



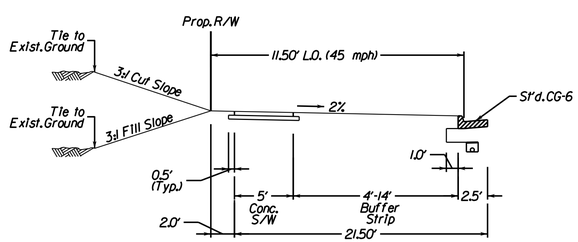
LOCATION	STATION	TO	STATION
Balls Ford Road	150+00.00		169+75.00



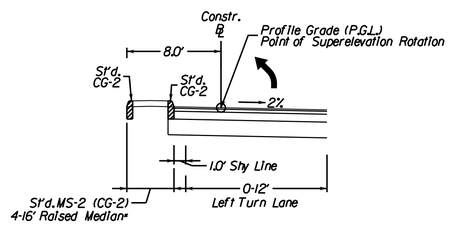
LOCATION	STATION	TO	STATION
Balls Ford Road	160+14.50		160+60.50



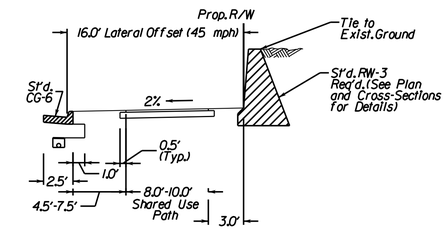
LOCATION	STATION	TO	STATION
Balls Ford Road	160+05.65		162+50.00



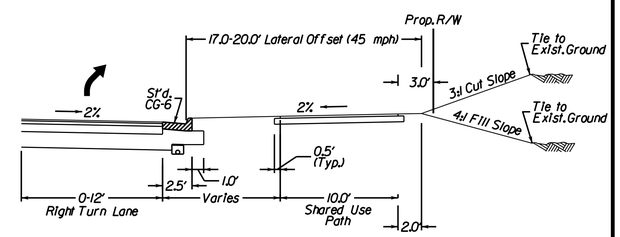
LOCATION	STATION	TO	STATION
Balls Ford Road	162+96.96		164+15.60



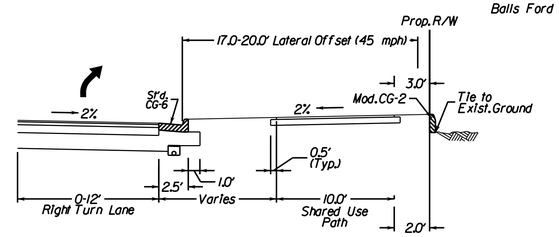
LOCATION	STATION	TO	STATION
Balls Ford Road	153+00.00		158+92.87
	163+00.00		169+68.13



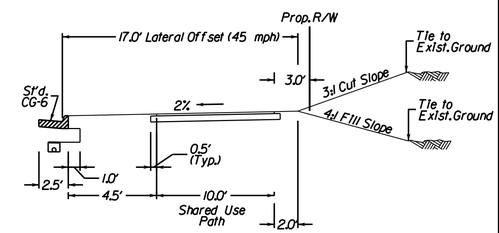
LOCATION	STATION	TO	STATION
Balls Ford Road	157+00.00		158+25.00



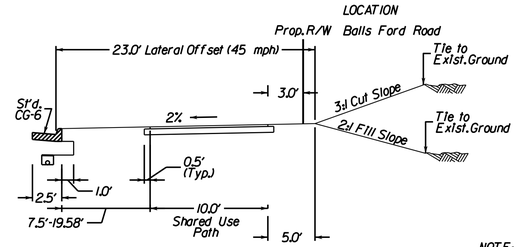
LOCATION	STATION	TO	STATION
Balls Ford Road	163+00.00		169+71.62



LOCATION	STATION	TO	STATION
Balls Ford Road	166+79.52		167+54.52



LOCATION	STATION	TO	STATION
Balls Ford Road	157+36.88		157+88.12 (2:1 Cut Slope)



LOCATION	STATION	TO	STATION
Balls Ford Road	168+49.22		169+71.62

NOTE: PAVEMENT DETAILS ARE PRELIMINARY AND WILL BE UPDATED FOLLOWING COMPLETION OF GEOTECHNICAL RECOMENDATIONS.

VDOT PROJECT NO.	SHEET NO.
0621-076-265	2A(4)

ADDITIONAL EASEMENTS FOR UTILITY RELOCATIONS MAY BE REQUIRED BEYOND THE PROPOSED RIGHT-OF-WAY SHOWN ON THESE PLANS

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Transportation - Environmental
Right of Way Services
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Phone: (703) 378-0100 Fax: (703) 378-0106
Phone: (757) 490-9282 Fax: (757) 490-9283
Phone: (703) 334-9302 Fax: (703) 334-9288

3/25/2019

PROJECT MANAGER PWCDOT: Khattab Shammout, P.E. (703) 792-7193
SURVEYED BY, DATE RDA: Ryan Dreella LS (703) 334-9302: September, 2018
DESIGN BY RDA: Mark A. Gunn, P.E. (703) 334-9288
SUBSURFACE UTILITY BY, DATE Accumark (703) 378-0100: November 2018

Typical Sections

REVISED	STATE	STATE ROUTE	STATE VDOT PROJECT NO.	SHEET NO.
	VA.	621	0621-076-265 PE101 C501 RW201	2B

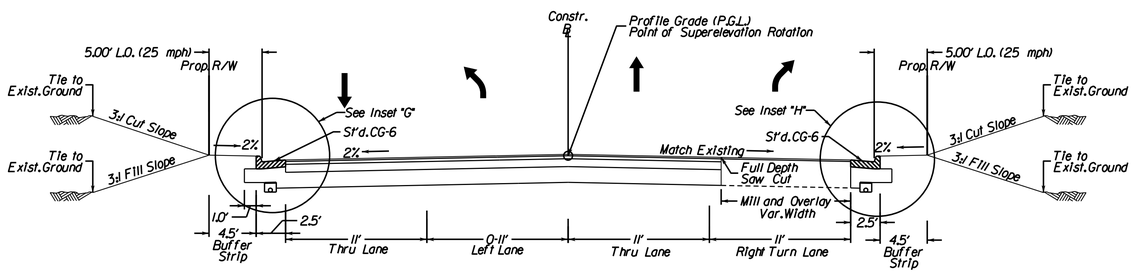
DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT

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

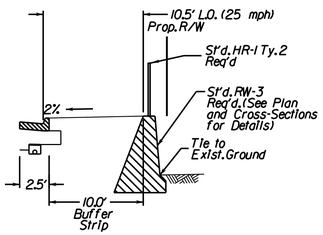
Old Compton Road

Normal Crown, 3 Lane Street with Curb & Gutter

Geometric Design Standard for Urban Local Street System (GS-8): V=25 MPH
(Not to Scale)



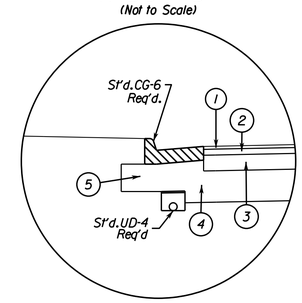
LOCATION	STATION	TO	STATION
Old Compton Rd.	10+15.00		14+50.32



LOCATION	STATION	TO	STATION
Balls Ford Road	11+50.00		12+75.00

Inset "G"

(Not to Scale)



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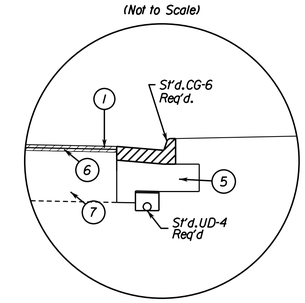
(Not to Scale)



INSET DESIGN LEGEND

1. Surface Course - (1.5") Asph. Conc., Type SM-9.5A estimated @ 179.1 lbs/sq.yd.
2. Intermediate Course - (2") Asph. Conc., Type IM-19.0A estimated at 241.8 lbs/sq.yd.
3. Base Course - 3" Asph. Conc., BM-25.0A.
4. Sub-Base Course - 8" Aggr. Base Material, Type I, Size No. 21-B, connect to a standard UD-4 edgedrain located below the curb and gutter.
5. Sub-Base Course - (Min. 6") Aggr. Base Material, Type I, Size No. 21-B
6. Existing Pavement - Min. 1.5" Mill Req'd. See ▨ Pattern.
7. Existing Asphalt Pavement Layer

TYPICAL SECTION NOTES

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

NOTE: PAVEMENT DETAILS ARE PRELIMINARY AND WILL BE UPDATED FOLLOWING COMPLETION OF GEOTECHNICAL RECOMENDATIONS.

VDOT PROJECT NO.	SHEET NO.
0621-076-265	2B

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P.H. PLANS

Rinker Design Associates, P.C.
Civil Engineering - Surveying - Land Planning
Transportation - Environmental
Right of Way Services
Office Locations
3/25/2019

PROJECT MANAGER PWCDOT: Khattab Shammout, P.E. (703) 792-7193
SURVEYED BY, DATE RDA: Ryan Dreella LS (703) 334-9302: September 2018
DESIGN BY RDA: Mark A. Gunn P.E. (703) 334-9288
SUBSURFACE UTILITY BY, DATE Accumark (703) 378-0100: November 2018

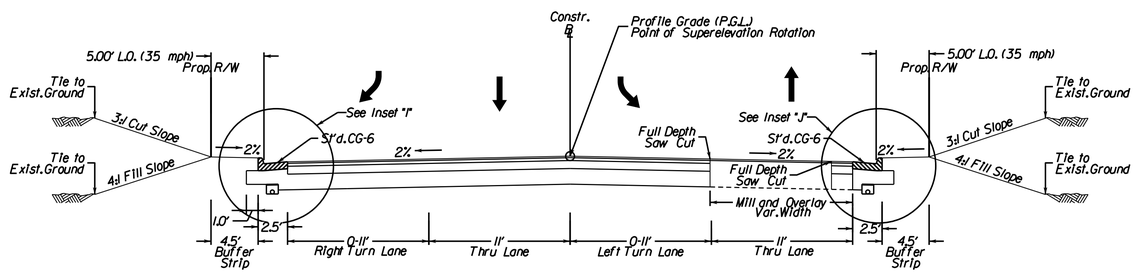
Typical Sections

REVISED	STATE	ROUTE	VDOT PROJECT NO.	SHEET NO.
	VA.	621	0621-076-265 PE101 C501 RW201	2B(1)

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

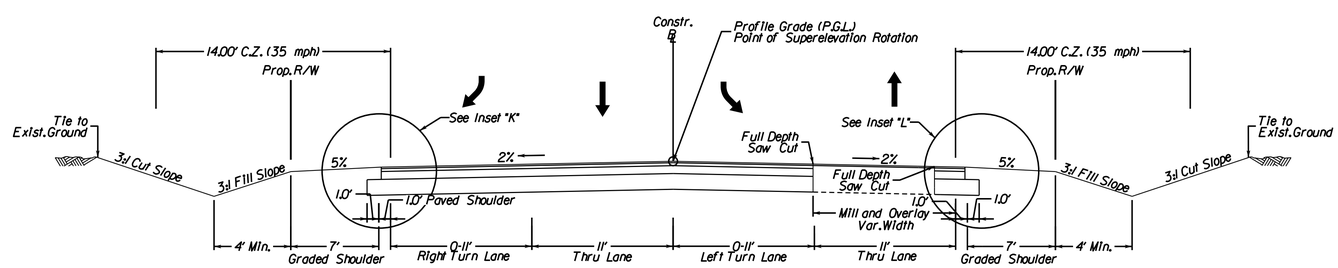
Rinker Design Assoc., P.C.
Fredericksburg, Virginia
(Roadway)

Bethlehem Road
Normal Crown, 2 Lane Street with Curb & Gutter
Geometric Design Standard for Urban Major Collector Street System (GS-7): V=35 MPH
(Not to Scale)



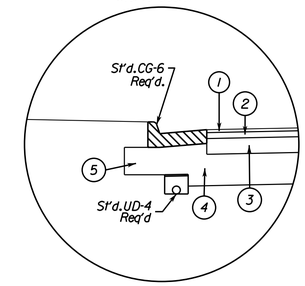
LOCATION	STATION	TO	STATION
Bethlehem Rd.	15+24.89		19+00.00

Bethlehem Road
Normal Crown, 2 Lane Street with Curb & Gutter
Geometric Design Standard for Urban Major Collector Street System (GS-7): V=35 MPH
(Not to Scale)

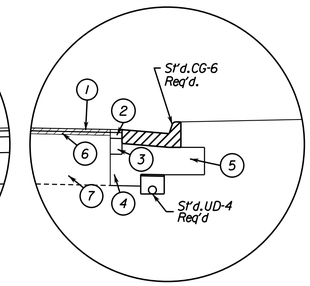


LOCATION	STATION	TO	STATION
Bethlehem Rd.	15+24.89		19+00.00

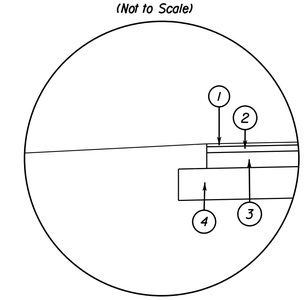
Inset "I"
(Not to Scale)



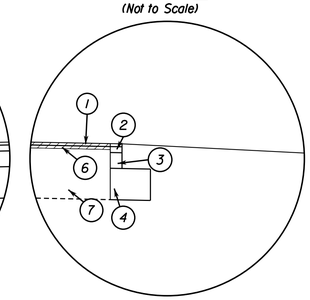
Inset "J"
(Not to Scale)



Inset "K"
(Not to Scale)



Inset "L"
(Not to Scale)



INSET DESIGN LEGEND

1. Surface Course - (1.5") Asph. Conc., Type SM-9.5D estimated @ 179.1 lbs/sq.yd.
2. Intermediate Course - (2") Asph. Conc., Type IM-19.0A estimated at 241.8 lbs/sq.yd.
3. Base Course - 6" Asph. Conc., BM-25.0A.
4. Sub-Base Course - 10" Aggr. Base Material, Type I, Size No. 21-B, connect to a standard UD-4 edgedrain located below the curb and gutter.
5. Sub-Base Course - (Min. 6") Aggr. Base Material, Type I, Size No. 21-B
6. Existing Pavement - Min. 1.5" Mill Req'd. See ▨ Pattern.
7. Existing Asphalt Pavement Layer

TYPICAL SECTION NOTES

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

NOTE: PAVEMENT DETAILS ARE PRELIMINARY AND WILL BE UPDATED FOLLOWING COMPLETION OF GEOTECHNICAL RECOMENDATIONS.

VDOT PROJECT NO.	SHEET NO.
0621-076-265	2B(1)

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P.H. PLANS

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Right of Way Services
www.rdaassociates.com
Office Locations
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Phone: (703) 378-0100 Fax: (703) 378-0108
Phone: (703) 334-9302 Fax: (703) 334-9288
Richmond, VA 23219 Phone: (804) 355-1555 Fax: (804) 355-1557

3/25/2019

PROJECT MANAGER PWCDOT: Khattab Shammout, P.E. (703) 792-7193
SURVEYED BY, DATE RDA: Ryan Dreella LS (703) 334-9302: September 2018
DESIGN BY RDA: Mark A. Gunn P.E. (703) 334-9288
SUBSURFACE UTILITY BY, DATE Accumark (703) 378-0100: November 2018

Typical Sections

REVISED	STATE	STATE ROUTE	VDOT PROJECT NO.	SHEET NO.
	VA.	621	0621-076-265 PE101 C501 RW201	2B(2)

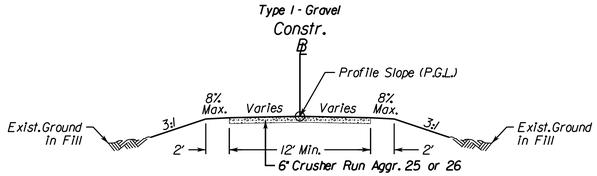
DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT

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

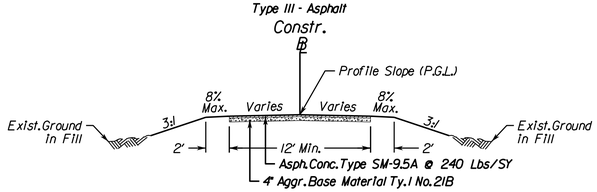
Private & Commercial Entrances

VDOT Std. PE-1, CG-9D, CG-11, & CG-13
(Not to Scale)

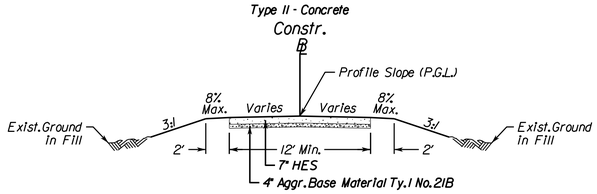
Type I - Gravel



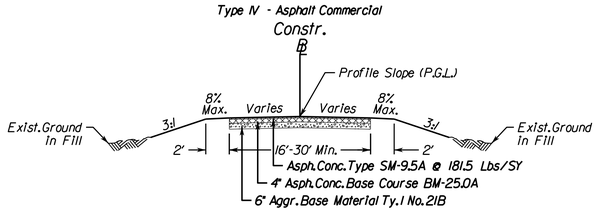
Type III - Asphalt



Type II - Concrete



Type IV - Asphalt Commercial

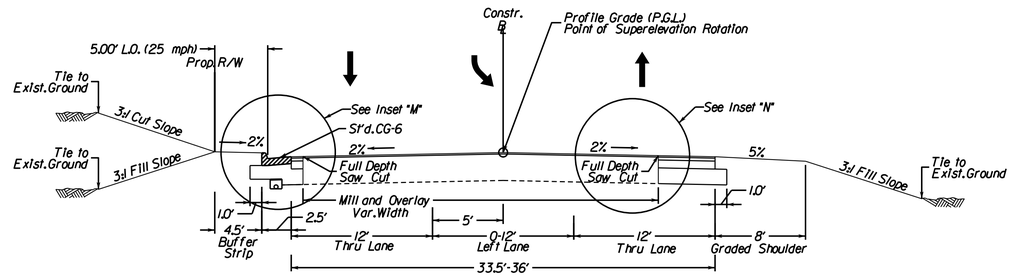


NOTE:
The type of entrance (I, II, III, IV) to be constructed will be determined by the existing condition at the time of construction. See VDOT Standards for private and commercial entrance details and additional information.

Notes Drive

Normal Crown, 3 Lane Street with Curb & Gutter

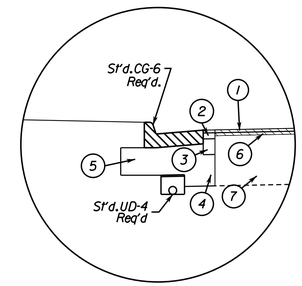
Geometric Design Standard for Urban Local Street System (GS-8): V=25 MPH
(Not to Scale)



LOCATION	STATION	TO	STATION
Old Compton Rd.	10+33.00		11+85.00

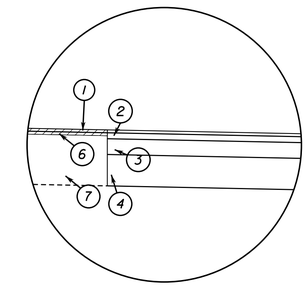
Inset "M"

(Not to Scale)



Inset "N"

(Not to Scale)



INSET DESIGN LEGEND

1. Surface Course - (1.5") Asph. Conc., Type SM-9.5A estimated @ 179.1 lbs/sq.yd.
2. Intermediate Course - (2") Asph. Conc., Type IM-19.0A estimated at 241.8 lbs/sq.yd.
3. Base Course - 3" Asph. Conc., BM-25.0A.
4. Sub-Base Course - 8" Aggr. Base Material, Type I, Size No. 21-B, connect to a standard UD-4 edgedrain located below the curb and gutter.
5. Sub-Base Course - (Min. 6") Aggr. Base Material, Type I, Size No. 21-B
6. Existing Pavement - Min. 1.5" Mill Req'd. See Pattern.
7. Existing Asphalt Pavement Layer

TYPICAL SECTION NOTES

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

NOTE: PAVEMENT DETAILS ARE PRELIMINARY AND WILL BE UPDATED FOLLOWING COMPLETION OF GEOTECHNICAL RECOMENDATIONS.

VDOT PROJECT NO.	SHEET NO.
0621-076-265	2B(2)

ADDITIONAL EASEMENTS FOR UTILITY RELOCATIONS MAY BE REQUIRED BEYOND THE PROPOSED RIGHT-OF-WAY SHOWN ON THESE PLANS

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P.H. PLANS

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Right of Way Services
Office Locations
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3/25/2019

PROJECT MANAGER PWCDOT: Khattab Shammout, P.E. (703) 792-7193
SURVEYED BY, DATE RDA: Ryan Dreella LS (703) 334-9302: September, 2018
DESIGN BY RDA: Mark A. Gunn P.E. (703) 334-9288
SUBSURFACE UTILITY BY, DATE Accumark (703) 378-0100: November 2018

Drainage Descriptions

REVISED	STATE	STATE ROUTE	STATE VDOT PROJECT NO.	SHEET NO.
	VA.	621	0621-076-265 PE101 C501 RW201	2K

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)

Sheet 3

3-1 I-St'd DI-1 Req'd.
H=3.2' Inv.=280.00

3-1 to 3-2 90' - 18" Storm Sewer Pipe Req'd.(3' Cover)
Inv(in)280.00 Inv(out) 279.50

3-2 I-St'd.ES-1 (18")
Inv.=279.50

3-3 I-St'd DI-2B Req'd.
L=12' H=4.3' Inv.=280.00
I-St'd.IS-1 Req'd.
I-St'd ST-1 Req'd.

3-3 to 3-4 120' - 18" Storm Sewer Pipe Req'd.(5' Cover)
Inv(in)280.00 Inv(out)277.80

3-4 5.3 Lin.Ft.St'd MH-1 or 2 Req'd.
1 St'd.MH-1 Frame and Cover Req'd.
Inv.= 277.70
I-St'd.IS-1 Req'd.
I-St'd.ST-1 Req'd.

3-4 to 3-5 124' - 18" Storm Sewer Pipe Req'd.(6' Cover)
Inv(in)277.70 Inv(out)277.00

3-5 I-St'd.ES-1 (18")
Inv.=277.00

Sheet 4

4-1 I-St'd DI-3B Req'd.
L=6' H=4.3' Inv.=286.00
I-St'd.ST-1 Req'd.

4-1 to 4-2 105' - 15" Storm Sewer Pipe Req'd.(3' Cover)
Inv(in)286.00 Inv(out)284.60

4-2 I-St'd DI-3B Req'd.
L=6' H=4.4' Inv.=284.50
I-St'd.IS-1 Req'd.
I-St'd.ST-1 Req'd.

4-2 to 4-3 53' - 15" Storm Sewer Pipe Req'd.(4' Cover)
Inv(in)284.50 Inv(out)283.50

4-3 I-St'd DI-2B Req'd.
L=6' H=4.8' Inv.=283.40
I-St'd.IS-1 Req'd.
I-St'd.ST-1 Req'd.

4-3 to 4-5 176' - 15" Storm Sewer Pipe Req'd.(3' Cover)
Inv(in)283.40 Inv(out)281.50

4-4 I-St'd DI-2B Req'd.
L=6' H=4.3' Inv.=285.00
I-St'd.ST-1 Req'd.

4-4 to 4-3 145' - 15" Storm Sewer Pipe Req'd.(3' Cover)
Inv(in)285.00 Inv(out)283.50

4-5 I-St'd DI-2B Req'd.
L=6' H=4.7' Inv.=281.40
I-St'd.ST-1 Req'd.

4-5 to 3-3 170' - 15" Storm Sewer Pipe Req'd.(3' Cover)
Inv(in)281.40 Inv(out)280.10

Sheet 5

EX161 Modify Existing Grate Inlet
Modify To Remove 36" Conc.Pipe
Modify To Accept 36" Conc.Pipe

EX161 to 5-12 109' - 36" Storm Sewer Pipe Req'd.(4' Cover)
Inv(in)286.69 Inv(out)284.15

5-1 I-St'd DI-3B Req'd.
L=4' H=4.0' Inv.=286.00
I-St'd.ST-1 Req'd.

5-1 to 5-2 55' - 15" Storm Sewer Pipe Req'd.(4' Cover)
Inv(in)286.00 Inv(out)285.70

5-2 I-St'd DI-2B Req'd.
L=4' H=5.2' Inv.=285.60
I-St'd.IS-1 Req'd.
I-St'd.ST-1 Req'd.

5-2 to 5-3 28' - 15" Storm Sewer Pipe Req'd.(4' Cover)
Inv(in)285.60 Inv(out)285.40

5-3 I-St'd DI-2B Req'd.
L=6' H=5.2' Inv.=285.30
I-St'd.IS-1 Req'd.
I-St'd.ST-1 Req'd.

5-3 to 5-11 56' - 15" Storm Sewer Pipe Req'd.(4' Cover)
Inv(in)285.30 Inv(out)285.00

5-4 I-St'd DI-3B Req'd.
L=4' H=6.4' Inv.=284.25
I-St'd.ST-1 Req'd.

5-4 to 5-12 17' - 15" Storm Sewer Pipe Req'd.(5' Cover)
Inv(in)284.25 Inv(out)284.15

5-5 Inflow connection to underground facility
Details to be provided with future submission

5-6 I-St'd DI-2B Req'd.
L=4' H=4.1' Inv.=284.75
I-St'd.ST-1 Req'd.

5-6 to 5-7 43' - 15" Storm Sewer Pipe Req'd.(3' Cover)
Inv(in)284.75 Inv(out)284.50

5-7 I-St'd DI-2C Req'd.
L=6' H=4.2' Inv.=284.40
I-St'd.ST-1 Req'd.

5-7 to 5-8 49' - 15" Storm Sewer Pipe Req'd.(3' Cover)
Inv(in)284.40 Inv(out)284.10

5-8 I-St'd DI-2B Req'd.
L=4' H=4.7' Inv.=284.00
I-St'd.ST-1 Req'd.

5-8 to 5-9 70' - 15" Storm Sewer Pipe Req'd.(4' Cover)
Inv(in)284.00 Inv(out)283.60

5-9 I-St'd DI-2B Req'd.
L=4' H=4.9' Inv.=283.50
I-St'd.IS-1 Req'd.
I-St'd.ST-1 Req'd.

5-9 to 5-21 27' - 15" Storm Sewer Pipe Req'd.(4' Cover)
Inv(in)283.50 Inv(out)283.30

5-10 I-St'd.ES-1 (15")
Inv.=285.95

5-10 to 5-11 10' - 15" Storm Sewer Pipe Req'd.(1' Cover)
Inv(in)285.95 Inv(out)285.90

5-11 I-St'd DI-2A Req'd.
H=3.6' Inv.=284.90
I-St'd.IS-1 Req'd.

5-11 to C8-4 30' - 15" Storm Sewer Pipe Req'd.(3' Cover)
Inv(in)284.90 Inv(out)284.75

5-12 5.9 Lin.Ft.St'd MH-1 or 2 Req'd.
1 St'd.MH-1 Frame and Cover Req'd.
Inv.= 284.05
I-St'd.IS-1 Req'd.
I-St'd.ST-1 Req'd.

5-12 to 5-5 63' - 36" Storm Sewer Pipe Req'd.(5' Cover)
Inv(in)284.05 Inv(out)283.80

5-13 Structure number not used

5-14 Outlet connection to underground facility
Details to be provided with future submission

5-14 to 5-15 23' - 36" Storm Sewer Pipe Req'd.(2' Cover)
Inv(in)283.70 Inv(out)283.60

5-15 4.3 Lin.Ft.St'd MH-1 or 2 Req'd.
1 St'd.MH-1 Frame and Cover Req'd.
Inv.= 283.50
I-St'd.IS-1 Req'd.
I-St'd.ST-1 Req'd.

5-15 to 6-6 232' - 36" Storm Sewer Pipe Req'd.(4' Cover)
Inv(in)283.50 Inv(out)282.30

5-16 I-St'd DI-3B Req'd.
L=4' H=4.0' Inv.=284.60
I-St'd.ST-1 Req'd.

5-16 to 5-17 83' - 15" Storm Sewer Pipe Req'd.(3' Cover)
Inv(in)284.60 Inv(out)284.25

5-17 I-St'd DI-3B Req'd.
L=6' H=4.0' Inv.=284.15
I-St'd.ST-1 Req'd.

5-17 to 5-18 110' - 15" Storm Sewer Pipe Req'd.(3' Cover)
Inv(in)284.15 Inv(out)283.70

5-18 I-St'd DI-3B Req'd.
L=4' H=4.1' Inv.=283.60
I-St'd.IS-1 Req'd.
I-St'd.ST-1 Req'd.

5-18 to 5-15 16' - 15" Storm Sewer Pipe Req'd.(3' Cover)
Inv(in)283.60 Inv(out)283.50

5-19 26' - 15" Culvert Pipe (1' Cover)
Inv(in)=282.17 Inv(out)=281.31
2- ES-1 (15") Req'd.

5-20 Structure number not used

5-21 I-St'd DI-3B Req'd.
L=4' H=5.7' Inv.=283.20
I-St'd.IS-1 Req'd.
I-St'd.ST-1 Req'd.

5-21 to 5-22 130' - 15" Storm Sewer Pipe Req'd.(5' Cover)
Inv(in)283.20 Inv(out)282.50

5-22 I-St'd DI-3B Req'd.
L=4' H=6.2' Inv.=282.40
I-St'd.ST-1 Req'd.

5-22 to 5-23 47' - 15" Storm Sewer Pipe Req'd.(5' Cover)
Inv(in)282.40 Inv(out)282.15

5-23 I-St'd DI-3C Req'd.
L=6' H=6.6' Inv.=282.05
I-St'd.ST-1 Req'd.

5-23 to 6-4 37' - 15" Storm Sewer Pipe Req'd.(6' Cover)
Inv(in)282.05 Inv(out)281.85

5-24 I-St'd DI-3B Req'd.
L=4' H=4.1' Inv.=283.50
I-St'd.ST-1 Req'd.

5-24 to 5-25 66' - 15" Storm Sewer Pipe Req'd.(3' Cover)
Inv(in)283.50 Inv(out)283.20

5-25 I-St'd DI-3C Req'd.
L=8' H=4.5' Inv.=283.10
I-St'd.IS-1 Req'd.
I-St'd.ST-1 Req'd.

5-25 to 6-3 18' - 15" Storm Sewer Pipe Req'd.(4' Cover)
Inv(in)283.10 Inv(out)282.80

C8-4 See I66 Segment 1A - No Priority Area
Plans (Project # 0066-96A-497) for Details

C8-4 to 5-12 94' - 18" Storm Sewer Pipe Req'd.(5' Cover)
Inv(in)284.65 Inv(out)284.15

Sheet 6

6-1 Structure number not used

6-2 1 St'd.DI-7B Req'd.Grate A Type 1 Grate Req'd.
H=4.8',Inv = 282.79
I-St'd.IS-1 Req'd.
I-St'd.ST-1 Req'd.

6-2 to 6-6 17' - 24" Storm Sewer Pipe Req'd.(3' Cover)
Inv(in)282.79 Inv(out)282.30

6-3 I-St'd DI-3B Req'd.
L=4' H=4.9' Inv.=282.70
I-St'd.IS-1 Req'd.
I-St'd.ST-1 Req'd.

6-3 to 6-6 17' - 15" Storm Sewer Pipe Req'd.(4' Cover)
Inv(in)282.70 Inv(out)282.30

6-4 I-St'd DI-3B Req'd.
L=4' H=7.1' Inv.=281.75
I-St'd.IS-1 Req'd.
I-St'd.ST-1 Req'd.

6-4 to 6-5 57' - 36" Storm Sewer Pipe Req'd.(5' Cover)
Inv(in)281.75 Inv(out)281.42

6-5 1- Modified.JB-1 Req'd.
H=4.6' ,W=11' ,D=8'
Type B Tower Req'd.
1 St'd.MH-1 Frame and Cover Req'd.
Inv.=281.42
I-St'd.IS-1 Req'd.
I-St'd.ST-1 Req'd.

6-6 1- Modified.JB-1 Req'd.
H=4.7' ,W=11' ,D=8'
Type B Tower Req'd.
1 St'd.MH-1 Frame and Cover Req'd.
Inv.=282.20
I-St'd.IS-1 Req'd.
I-St'd.ST-1 Req'd.

6-6 to 6-4 57' - 36" Storm Sewer Pipe Req'd.(4' Cover)
Inv(in)282.20 Inv(out)281.85

6-7 I-St'd DI-3B Req'd.
L=6' H=4.0' Inv.=295.75
I-St'd.ST-1 Req'd.

6-7 to 6-8 91' - 15" Storm Sewer Pipe Req'd.(3' Cover)
Inv(in)295.75 Inv(out)293.40

6-8 I-St'd DI-3B Req'd.
L=6.0' H=3.9' Inv.=293.30
I-St'd.IS-1 Req'd.

6-8 to 6-9 39' - 15" Storm Sewer Pipe Req'd.(2' Cover)
Inv(in)293.30 Inv(out)292.30

6-9 I-St'd DI-3B Req'd.
L=4' H=3.9' Inv.=292.20
I-St'd.IS-1 Req'd.

6-9 to 6-10 143' - 15" Storm Sewer Pipe Req'd.(3' Cover)
Inv(in)292.20 Inv(out)289.10

6-10 I-St'd DI-3B Req'd.
L=4' H=3.5' Inv.=289.00
I-St'd.IS-1 Req'd.

6-10 to 6-15 32' - 15" Storm Sewer Pipe Req'd.(2' Cover)
Inv(in)289.00 Inv(out)287.90

6-11 I-St'd DI-3B Req'd.
L=6' H=3.9' Inv.=287.00

6-11 to 6-12 77' - 15" Storm Sewer Pipe Req'd.(3' Cover)
Inv(in)287.00 Inv(out)286.20

6-12 I-St'd DI-3B Req'd.
L=4' H=3.9' Inv.=286.10
I-St'd.IS-1 Req'd.

6-12 to 6-13 68' - 15" Storm Sewer Pipe Req'd.(3' Cover)
Inv(in)286.10 Inv(out)285.40

6-13 I-St'd DI-3B Req'd.
L=4' H=4.1' Inv.=285.30
I-St'd.IS-1 Req'd.
I-St'd.ST-1 Req'd.

6-13 to 6-4 87' - 15" Storm Sewer Pipe Req'd.(4' Cover)
Inv(in)285.30 Inv(out)284.00

6-14 I-St'd.ES-1 (18")
Inv.=287.70

6-15 I-St'd DI-2B Req'd.
L=10' H=3.7' Inv.=287.80
I-St'd.IS-1 Req'd.

6-15 to 6-14 18' - 18" Storm Sewer Pipe Req'd.(3' Cover)
Inv(in)287.80 Inv(out)287.70

6-16 1 St'd.DI-5 Type 1 Grate Req'd.
St'd.PG-2A Type E Cover
H=3.2' Inv.= 282.90

6-16 to 6-17 19' - 15" Storm Sewer Pipe Req'd.(5' Cover)
Inv(in)282.90 Inv(out)282.84

6-17 I-St'd DI-3B Req'd.
L=6' H=6.0' Inv.=282.74
I-St'd.IS-1 Req'd.
I-St'd.ST-1 Req'd.

VDOT PROJECT NO.	SHEET NO.
0621-076-265	2K

ADDITIONAL EASEMENTS FOR UTILITY RELOCATIONS MAY BE REQUIRED BEYOND THE PROPOSED RIGHT-OF-WAY SHOWN ON THESE PLANS

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

P.H. PLANS

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3/25/2019

PROJECT MANAGER PWCDOT: Khattab Shammout, P.E. (703) 792-7193
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Drainage Descriptions

REVISED	STATE	ROUTE	STATE VDOT PROJECT NO.	SHEET NO.
	VA.	621	0621-076-265 PE101 C501 RW201	2K(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)

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

6-17 to 6-6
126' - 24" Storm Sewer Pipe Req'd.(4' Cover)
Inv(In)282.74 Inv(out)282.30

6-18
1 St'd.DI-5 Type 1 Grate Req'd.
St'd.PG-2A Type E Cover
H=3.5' Inv.=294.00

6-18 to 6-8
45' - 15" Storm Sewer Pipe Req'd.(3' Cover)
Inv(In)294.00 Inv(out)293.40

6-19
1-St'd DI-2B Req'd.
L=8' H=4.1' Inv.=296.00
1-St'd.ST-1 Req'd.

6-19 to 6-20
199' - 15" Storm Sewer Pipe Req'd.(3' Cover)
Inv(In)296.00 Inv(out)291.00

6-20
1-St'd DI-2B Req'd.
L=6' H=3.3' Inv.=290.90
1-St'd.IS-1 Req'd.

6-20 to 6-15
142' - 15" Storm Sewer Pipe Req'd.(2' Cover)
Inv(In)290.90 Inv(out)287.90

6-21
1 St'd.DI-5 Type 1 Grate Req'd.
St'd.PG-2A Type E Cover
H=3.5' Inv.=290.13

6-21 to 6-22
90' - 15" Storm Sewer Pipe Req'd.(4' Cover)
Inv(In)290.13 Inv(out)287.70

6-22
1-St'd.ES-1 (15")
Inv.=287.70

Sheet 7

EX134
Modify Existing Drop Inlet
Modify To Remove 15" Conc.Pipe
Modify To Accept 15" Conc.Pipe

EX134 to 7-5
20' - 15" Storm Sewer Pipe Req'd.(4' Cover)
Inv(In)302.24 Inv(out)302.10

7-1
1 St'd.DI-5 Type 1 Grate Req'd.
St'd.PG-2A Type E Cover
H=4.8' Inv.=312.00
1-St'd.ST-1 Req'd.

7-1 to 7-2
66' - 15" Storm Sewer Pipe Req'd.(3' Cover)
Inv(In)312.00 Inv(out)310.00

7-2
1-St'd DI-3B Req'd.
L=6' H=3.9' Inv.=309.90
1-St'd.IS-1 Req'd.

7-2 to 7-3
90' - 15" Storm Sewer Pipe Req'd.(4' Cover)
Inv(In)309.90 Inv(out)306.00

7-3
1-St'd DI-3B Req'd.
L=6' H=5.4' Inv.=305.90
1-St'd.IS-1 Req'd.
1-St'd.ST-1 Req'd.

7-3 to 7-4
31' - 15" Storm Sewer Pipe Req'd.(5' Cover)
Inv(In)305.90 Inv(out)304.35

7-4
1-St'd DI-3B Req'd.
L=6' H=6.1' Inv.=304.25
1-St'd.IS-1 Req'd.
1-St'd.ST-1 Req'd.

7-4 to 7-5
92' - 18" Storm Sewer Pipe Req'd.(4' Cover)
Inv(In)304.25 Inv(out)302.10

7-5
1-St'd DI-2B Req'd.
L=6' H=5.5' Inv.=302.00
1-St'd.IS-1 Req'd.
1-St'd.ST-1 Req'd.

7-5 to 7-7
86' - 18" Storm Sewer Pipe Req'd.(4' Cover)
Inv(In)302.00 Inv(out)301.00

7-6
1-St'd DI-3B Req'd.
L=10' H=5.7' Inv.=301.85
1-St'd.ST-1 Req'd.

7-6 to 7-7
34' - 15" Storm Sewer Pipe Req'd.(5' Cover)
Inv(In)301.85 Inv(out)301.00

7-7
3.8 Lin.Ft.St'd MH-1 or 2 Req'd.
1 St'd.MH-1 Frame and Cover Req'd.
Inv.=300.90
1-St'd.IS-1 Req'd.
1-St'd.ST-1 Req'd.

7-7 to 7-8
65' - 18" Storm Sewer Pipe Req'd.(4' Cover)
Inv(In)300.90 Inv(out)299.00

7-8
1-St'd DI-3B Req'd.
L=6' H=4.4' Inv.=298.90
1-St'd.IS-1 Req'd.
1-St'd.ST-1 Req'd.

7-8 to 7-9
41' - 18" Storm Sewer Pipe Req'd.(6' Cover)
Inv(In)298.90 Inv(out)297.10

7-9
1-St'd DI-3B Req'd.
L=8' H=7.5' Inv.=297.00
1-St'd.IS-1 Req'd.
1-St'd.ST-1 Req'd.

7-9 to 7-10
86' - 18" Storm Sewer Pipe Req'd.(10' Cover)
Inv(In)297.00 Inv(out)295.02

7-10
Modify Existing Storm Grate
Adjust To Grade.Raise 5.1'
Add St'd.MH-1 Frame and Cover
Proposed Top Elev = 303.68
1-St'd.ST-1 Req'd.

7-11
1-St'd DI-3BB Req'd.
L=4' H=14.6' Inv.=300.60
1-St'd.ST-1 Req'd.
1-St'd.SL-1 Req'd.

7-11 to 7-12
63' - 15" Storm Sewer Pipe Req'd.(13' Cover)
Inv(In)300.60 Inv(out)300.40

7-12
1-St'd DI-3BB Req'd.
L=6' H=13.9' Inv.=300.30
1-St'd.IS-1 Req'd.
1-St'd.ST-1 Req'd.
1-St'd.SL-1 Req'd.

7-12 to 7-13
99' - 15" Storm Sewer Pipe Req'd.(14' Cover)
Inv(In)300.30 Inv(out)299.80

7-13
1-St'd DI-3BB Req'd.
L=6' H=15.0' Inv.=299.70
1-St'd.IS-1 Req'd.
1-St'd.ST-1 Req'd.
1-St'd.SL-1 Req'd.

7-13 to 8-1
107' - 15" Storm Sewer Pipe Req'd.(14' Cover)
Inv(In)299.70 Inv(out)299.00

7-14
1-St'd DI-3B Req'd.
L=6' H=5.8' Inv.=312.50
1-St'd.IS-1 Req'd.
1-St'd.ST-1 Req'd.

7-14 to 7-15
50' - 15" Storm Sewer Pipe Req'd.(6' Cover)
Inv(In)312.50 Inv(out)312.10

7-15
1-St'd DI-3B Req'd.
L=4' H=7.2' Inv.=312.00
1-St'd.IS-1 Req'd.
1-St'd.ST-1 Req'd.

7-15 to 8-12
50' - 15" Storm Sewer Pipe Req'd.(11' Cover)
Inv(In)312.00 Inv(out)311.70

7-16
1 St'd.DI-5 Type 1 Grate Req'd.
St'd.PG-2A Type E Cover
H=4.4' Inv.=304.64
1-St'd.IS-1 Req'd.
1-St'd.ST-1 Req'd.

7-17
1-St'd DI-3B Req'd.
L=6' H=3.4' Inv.=309.40

7-17 to 7-4
85' - 15" Storm Sewer Pipe Req'd.(5' Cover)
Inv(In)309.40 Inv(out)304.35

Sheet 7B

7B-1
1-St'd DI-3B Req'd.
L=4' H=5.3' Inv.=314.00
1-St'd.ST-1 Req'd.

7B-1 to 7B-2
67' - 15" Storm Sewer Pipe Req'd.(4' Cover)
Inv(In)314.00 Inv(out)313.80

7B-2
1-St'd DI-3B Req'd.
L=4' H=4.4' Inv.=313.70
1-St'd.ST-1 Req'd.

7B-2 to 7-14
77' - 15" Storm Sewer Pipe Req'd.(5' Cover)
Inv(In)313.70 Inv(out)312.60

7B-3
1-St'd DI-2B Req'd.
L=8' H=3.3' Inv.=315.50

7B-3 to 7B-4
45' - 15" Storm Sewer Pipe Req'd.(3' Cover)
Inv(In)315.50 Inv(out)315.34

7B-4
1-St'd DI-2B Req'd.
L=8' H=4.4' Inv.=315.24
1-St'd.ST-1 Req'd.

7B-4 to 7B-5
3' - 15" Storm Sewer Pipe Req'd.(4' Cover)
Inv(In)315.24 Inv(out)315.20

7B-5
1-St'd.ES-1 (15")
Inv.=315.20

Sheet 8

8-1
1-St'd DI-3BB Req'd.
L=8' H=14.2' Inv.=298.90
1-St'd.IS-1 Req'd.
1-St'd.ST-1 Req'd.
1-St'd.SL-1 Req'd.

8-1 to 8-2
64' - 18" Storm Sewer Pipe Req'd.(14' Cover)
Inv(In)298.90 Inv(out)298.50

8-2
1-St'd DI-3BB Req'd.
L=6' H=15.5' Inv.=298.40
1-St'd.IS-1 Req'd.
1-St'd.ST-1 Req'd.
1-St'd.SL-1 Req'd.

8-2 to 8-3
152' - 18" Storm Sewer Pipe Req'd.(14' Cover)
Inv(In)298.40 Inv(out)297.60

8-3
1-St'd DI-3BB Req'd.
L=6' H=13.9' Inv.=297.50
1-St'd.IS-1 Req'd.
1-St'd.ST-1 Req'd.
1-St'd.SL-1 Req'd.
0.5" Steel Plate Req'd.at Invert

8-3 to 8-4
163' - 18" Storm Sewer Pipe Req'd.(12' Cover)
Inv(In)297.50 Inv(out)296.60

8-4
1-St'd DI-3BB Req'd.
L=8' H=10.4' Inv.=296.50
1-St'd.IS-1 Req'd.
1-St'd.ST-1 Req'd.
0.5" Steel Plate Req'd.at Invert

8-4 to 8-5
157' - 24" Storm Sewer Pipe Req'd.(8' Cover)
Inv(In)296.50 Inv(out)294.00

8-5
1-St'd DI-3B Req'd.
L=8' H=6.1' Inv.=293.90
1-St'd.IS-1 Req'd.
1-St'd.ST-1 Req'd.

8-5 to 8-6
81' - 24" Storm Sewer Pipe Req'd.(4' Cover)
Inv(In)293.90 Inv(out)291.10

8-6
4.4 Lin.Ft.St'd MH-1 or 2 Req'd.
1 St'd.MH-1 Frame and Cover Req'd.
Inv.= 291.00
1-St'd.IS-1 Req'd.
1-St'd.ST-1 Req'd.

8-6 to 8-7
90' - 30" Storm Sewer Pipe Req'd.(3' Cover)
Inv(In)291.00 Inv(out)290.10

8-7
1-St'd DI-3B Req'd.
L=6' H=5.6' Inv.=290.00
1-St'd.IS-1 Req'd.
1-St'd.ST-1 Req'd.

8-7 to 9-1
217' - 30" Storm Sewer Pipe Req'd.(3' Cover)
Inv(In)290.00 Inv(out)280.10

8-8
1-St'd DI-3B Req'd.
L=8' H=4.8' Inv.=305.00
1-St'd.ST-1 Req'd.

8-8 to 8-3
44' - 15" Storm Sewer Pipe Req'd.(6' Cover)
Inv(In)305.00 Inv(out)304.50

8-9
1-St'd DI-2B Req'd.
L=8' H=4.4' Inv.=301.00
1-St'd.ST-1 Req'd.

8-9 to 8-4
42' - 15" Storm Sewer Pipe Req'd.(5' Cover)
Inv(In)301.00 Inv(out)300.50

8-10
1-St'd DI-3B Req'd.
L=8' H=4.0' Inv.=295.10
1-St'd.ST-1 Req'd.

8-10 to 8-5
41' - 15" Storm Sewer Pipe Req'd.(5' Cover)
Inv(In)295.10 Inv(out)294.00

8-11
1-St'd DI-3B Req'd.
L=6' H=4.0' Inv.=291.40
1-St'd.ST-1 Req'd.

8-11 to 8-6
39' - 15" Storm Sewer Pipe Req'd.(4' Cover)
Inv(In)291.40 Inv(out)291.10

8-12
9.8 Lin.Ft.St'd MH-1 or 2 Req'd.
1 St'd.MH-1 Frame and Cover Req'd.
Inv.= 311.60
1-St'd.IS-1 Req'd.
1-St'd.ST-1 Req'd.

8-12 to 8-13
234' - 15" Storm Sewer Pipe Req'd.(9' Cover)
Inv(In)311.60 Inv(out)310.50

8-13
1-St'd.ES-1 (15")
Inv.=310.50

Sheet 9

9-1
1-St'd DI-3BB Req'd.
L=10' H=10.9' Inv.=274.50
1-St'd.IS-1 Req'd.
1-St'd.ST-1 Req'd.
0.5" Steel Plate Req'd.at Invert

9-1 to 9-3
48' - 30" Storm Sewer Pipe Req'd.(9' Cover)
Inv(In)274.50 Inv(out)273.73

9-2
1-St'd DI-3B Req'd.
L=6' H=7.5' Inv.=275.20
1-St'd.ST-1 Req'd.

9-2 to 9-1
62' - 15" Storm Sewer Pipe Req'd.(10' Cover)
Inv(In)275.20 Inv(out)274.60

9-3
1-St'd.ES-1 (30")
Inv.=273.73

9-4
1-St'd DI-3B Req'd.
L=6' H=3.9' Inv.=275.80

9-4 to 9-2
86' - 15" Storm Sewer Pipe Req'd.(6' Cover)
Inv(In)275.80 Inv(out)275.30

9-5
1-St'd DI-2B Req'd.
L=6' H=4.3' Inv.=288.00
1-St'd.ST-1 Req'd.

9-5 to 9-6
152' - 15" Storm Sewer Pipe Req'd.(3' Cover)
Inv(In)288.00 Inv(out)280.60

9-6
1-St'd DI-2BB Req'd.
L=8' H=9.6' Inv.=275.70
1-St'd.IS-1 Req'd.
1-St'd.ST-1 Req'd.
0.5" Steel Plate Req'd.at Invert

9-6 to 9-1
70' - 18" Storm Sewer Pipe Req'd.(9' Cover)
Inv(In)275.70 Inv(out)275.30

9-7
1-St'd DI-2B Req'd.
L=6' H=3.8' Inv.=276.60

9-7 to 9-6
152' - 15" Storm Sewer Pipe Req'd.(8' Cover)
Inv(In)276.60 Inv(out)275.80

9-8
1-St'd DI-3B Req'd.
L=6' H=3.9' Inv.=272.00

9-8 to 9-10
53' - 15" Storm Sewer Pipe Req'd.(3' Cover)
Inv(In)272.00 Inv(out)271.70

9-9
1-St'd DI-3B Req'd.
L=6' H=3.9' Inv.=272.00

VDOT PROJECT NO.	SHEET NO.
0621-076-265	2K(1)

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PROJECT MANAGER PWCDOT: Khattab Shammout, P.E. (703) 792-7193
SURVEYED BY, DATE RDA: Ryan Dreella LS (703) 334-9302: September, 2018
DESIGN BY RDA: Mark A. Gunn, P.E. (703) 334-9288
SUBSURFACE UTILITY BY, DATE Accumark (703) 378-0100: November 2018

Drainage Descriptions

REVISED	STATE	ROUTE	STATE VDOT PROJECT NO.	SHEET NO.
	VA.	621	0621-076-265 PE101 C501 RW201	2K(2)

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

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

9-9 to 9-10 48' - 15" Storm Sewer Pipe Req'd.(3' Cover)
Inv(In)272.00 Inv(out)271.70

9-10 I-St'd DI-3CC Req'd.
L=8' H=8.2' Inv.=267.60
I-St'd.IS-I Req'd.
I-St'd.ST-I Req'd.
0.5" Steel Plate Req'd.at Invert

9-10 to 9-11 44' - 30" Storm Sewer Pipe Req'd.(8' Cover)
Inv(In)267.60 Inv(out)267.35

9-11 I-St'd DI-3CC Req'd.
L=8' H=10.1' Inv.=267.25
I-St'd.IS-I Req'd.
I-St'd.ST-I Req'd.
0.5" Steel Plate Req'd.at Invert

9-11 to 9-12 28' - 30" Storm Sewer Pipe Req'd.(8' Cover)
Inv(In)267.25 Inv(out)267.10

9-12 I-St'd DI-3CC Req'd.
L=8' H=11.1' Inv.=267.00
I-St'd.ST-I Req'd.

9-12 to 9-13 52' - 30" Storm Sewer Pipe Req'd.(9' Cover)
Inv(In)267.00 Inv(out)266.70

9-13 I-St'd.ES-I (30")
Inv.= 266.70

9-14 I-St'd DI-3B Req'd.
L=6' H=4.0' Inv.=273.50
I-St'd.ST-I Req'd.

9-14 to 9-11 54' - 15" Storm Sewer Pipe Req'd.(5' Cover)
Inv(In)273.50 Inv(out)271.30

9-15 I-St'd DI-3B Req'd.
L=4' H=4.0' Inv.=273.50
I-St'd.ST-I Req'd.

9-15 to 9-11 48' - 15" Storm Sewer Pipe Req'd.(5' Cover)
Inv(In)273.50 Inv(out)271.30

9-16 11.2' St'd.SWM-I Req'd.
Bottom Elev = 265.31
3.5" Diameter Water Quality Orifice Req.Inv = 273.73
4 - 1.25'x1.00' Orifice Req.Inv = 275.25
I-St'd.ST-I Req'd.
See Sheet XX For Details

9-16 to 9-17 44' - 30" Concrete Pipe Req'd.(8' Cover)
Leak Resistant Joint Type
Inv(In)268.31 Inv(out)268.10
44' Concrete Cradle
Pipe-Spec.Section 232 (AASHTO M170)
Gasket- Spec.Section 212 (ASTM C443)

9-17 1 St'd.DI-5 Type I Grate Req'd.
St'd.PG-2A Type E Cover
H= 4.7' Inv.= 268.00
I-St'd.ST-I Req'd.

9-17 to 9-10 63' - 30" Storm Sewer Pipe Req'd.(6' Cover)
Inv(In)268.00 Inv(out)267.70

9-18 Structure number not used

9-19 1 St'd.DI-5 Type I Grate Req'd.
St'd.PG-2A Type E Cover
H= 2.8' Inv.= 271.04

9-19 to 9-20 Existing Pipe To Be Extended with 14' - 24" Concrete Pipe
Inv(In)271.04 Inv(out)270.05

9-20 Existing Pipe Inflow
Remove Existing Headwall (If Present)
Existing Structure to be Verified

9-21 25' - 15" Culvert Pipe (1' Cover)
Inv(In)=287.46 Inv(out)=287.33
2- ES-1 (15") Req'd.

Sheet 10

10-1 I-St'd DI-3C Req'd.
L=6' H=5.6' Inv.=276.60
I-St'd.IS-I Req'd.
I-St'd.ST-I Req'd.

10-1 to 10-2 177' - 18" Storm Sewer Pipe Req'd.(5' Cover)
Inv(In)276.60 Inv(out)275.90

10-2 I-St'd DI-3B Req'd.
L=6' H=5.9' Inv.=275.80
I-St'd.IS-I Req'd.
I-St'd.ST-I Req'd.

10-2 to 10-3 201' - 18" Storm Sewer Pipe Req'd.(5' Cover)
Inv(In)275.80 Inv(out)275.00

10-3 I-St'd DI-3B Req'd.
L=8' H=5.1' Inv.=274.90
I-St'd.IS-I Req'd.
I-St'd.ST-I Req'd.

10-3 to 10-7 176' - 18" Storm Sewer Pipe Req'd.(4' Cover)
Inv(In)274.90 Inv(out)274.20

10-4 Structure number not used

10-5 I-St'd.ES-I (24")
Inv.= 273.73

10-6 I-St'd DI-3B Req'd.
L=8' H=3.8' Inv.=275.60

10-6 to 10-7 43' - 15" Storm Sewer Pipe Req'd.(2' Cover)
Inv(In)275.60 Inv(out)274.20

10-7 I-St'd DI-3B Req'd.
L=6' H=3.7' Inv.=274.10
I-St'd.IS-I Req'd.

10-7 to 10-5 92' - 24" Storm Sewer Pipe Req'd.(2' Cover)
Inv(In)274.10 Inv(out)273.73

10-8 1 St'd.DI-5 Type I Grate Req'd.
St'd.PG-2A Type E Cover
H= 3.9' Inv.= 280.00

10-8 to 10-9 65' - 15" Storm Sewer Pipe Req'd.(3' Cover)
Inv(In)280.00 Inv(out)278.10

10-9 I-St'd DI-3B Req'd.
L=6' H=4.2' Inv.=278.00
I-St'd.IS-I Req'd.
I-St'd.ST-I Req'd.

10-9 to 10-2 41' - 15" Storm Sewer Pipe Req'd.(3' Cover)
Inv(In)278.00 Inv(out)277.00

10-10 I-St'd DI-3B Req'd.
L=4' H=4.0' Inv.=279.70
I-St'd.ST-I Req'd.

10-10 to 10-9 222' - 15" Storm Sewer Pipe Req'd.(4' Cover)
Inv(In)279.70 Inv(out) 278.10

Sheet 11

11-1 I-St'd DI-3B Req'd.
L=4' H=4.0' Inv.=279.30
I-St'd.ST-I Req'd.

11-1 to 11-2 67' - 15" Storm Sewer Pipe Req'd.(3' Cover)
Inv(In)279.30 Inv(out)278.30

11-2 I-St'd DI-3B Req'd.
L=4' H=4.1' Inv.=278.20
I-St'd.IS-I Req'd.
I-St'd.ST-I Req'd.

11-2 to 11-3 69' - 15" Storm Sewer Pipe Req'd.(3' Cover)
Inv(In)278.20 Inv(out)277.80

11-3 I-St'd DI-3C Req'd.
L=8' H=4.4' Inv.=277.70
I-St'd.ST-I Req'd.

11-3 to 11-4 39' - 15" Storm Sewer Pipe Req'd.(3' Cover)
Inv(In)277.70 Inv(out)277.50

11-4 I-St'd DI-3B Req'd.
L=4' H=4.9' Inv.=277.40
I-St'd.IS-I Req'd.
I-St'd.ST-I Req'd.

11-4 to 11-5 95' - 15" Storm Sewer Pipe Req'd.(4' Cover)
Inv(In)277.40 Inv(out)277.01

11-5 I-St'd DI-3B Req'd.
L=4' H=5.4' Inv.=276.91
I-St'd.IS-I Req'd.
I-St'd.ST-I Req'd.

11-5 to 10-1 56' - 15" Storm Sewer Pipe Req'd.(4' Cover)
Inv(In)276.91 Inv(out)276.70

11-6 I-St'd DI-3B Req'd.
L=4' H=4.0' Inv.=277.30
I-St'd.ST-I Req'd.

11-6 to 11-7 189' - 15" Storm Sewer Pipe Req'd.(3' Cover)
Inv(In)277.30 Inv(out)274.70

11-7 I-St'd DI-3B Req'd.
L=6' H=4.1' Inv.=274.60
I-St'd.IS-I Req'd.
I-St'd.ST-I Req'd.

11-7 to 11-9 85' - 15" Storm Sewer Pipe Req'd.(4' Cover)
Inv(In)274.60 Inv(out)274.10

11-8 I-St'd DI-3B Req'd.
L=6' H=3.9' Inv.=276.80

11-8 to 11-9 164' - 15" Storm Sewer Pipe Req'd.(4' Cover)
Inv(In)276.80 Inv(out)274.10

11-9 3.9 Lin.Ft.St'd MH-1 or 2 Req'd.
1 St'd.MH-1 Frame and Cover Req'd.
Inv.= 274.00
I-St'd.IS-I Req'd.

11-9 to 11-10 24' - 15" Storm Sewer Pipe Req'd.(4' Cover)
Inv(In)274.00 Inv(out)273.80

11-10 4.1 Lin.Ft.St'd MH-1 or 2 Req'd.
1 St'd.MH-1 Frame and Cover Req'd.
Inv.= 273.70
I-St'd.IS-I Req'd.
I-St'd.ST-I Req'd.

11-10 to 12-2 73' - 15" Storm Sewer Pipe Req'd.(4' Cover)
Inv(In)273.70 Inv(out)270.10

Sheet 12

12-1 I-St'd DI-3B Req'd.
L=6' H=4.7' Inv.=272.00
I-St'd.ST-I Req'd.

12-1 to 12-2 37' - 15" Storm Sewer Pipe Req'd.(5' Cover)
Inv(In)272.00 Inv(out)270.10

12-2 3.6 Lin.Ft.St'd MH-1 or 2 Req'd.
1 St'd.MH-1 Frame and Cover Req'd.
Inv.= 270.00
I-St'd.IS-I Req'd.

12-2 to A7 145' - 15" Storm Sewer Pipe Req'd.(10' Cover)
Inv(In)270.00 Inv(out)262.45

A7 See Blackburn - Balls Ford Road and
Ashton Avenue Plans (Plan # SP-2107-P1) for Details

3/25/2019

VDOT PROJECT NO.	SHEET NO.
0621-076-265	2K(2)

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SURVEYED BY, DATE RDA: Ryan Dreella LS (703) 334-9302: September 2018
DESIGN BY RDA: Mark A. Gunn, P.E. (703) 334-9288
SUBSURFACE UTILITY BY, DATE Accumark (703) 378-0100: November 2018

Storm Sewer Profiles

REVISED	STATE	ROUTE	STATE VDOT PROJECT NO.	SHEET NO.
	VA.	621	0621-076-265 PE101 C501 RW201	2L

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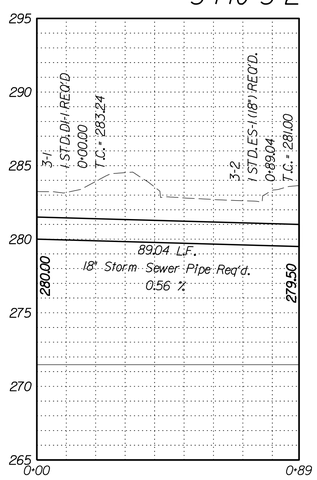
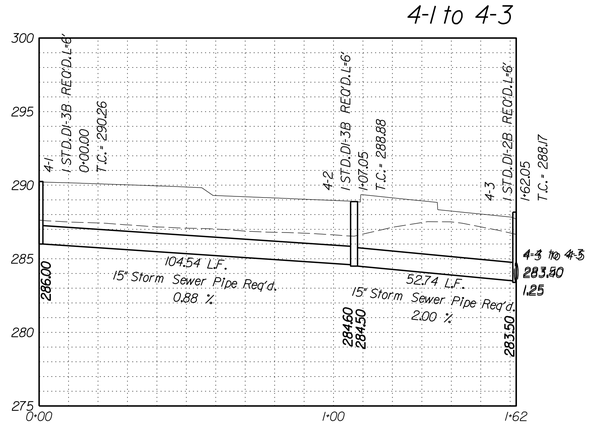
Rinker Design Assoc., P.C. Fredericksburg, Virginia (Hydraulics)

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

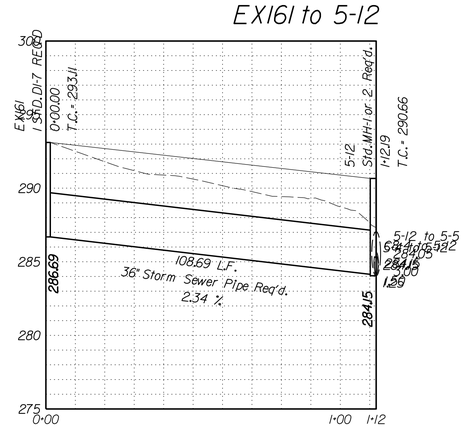
3-1 to 3-2



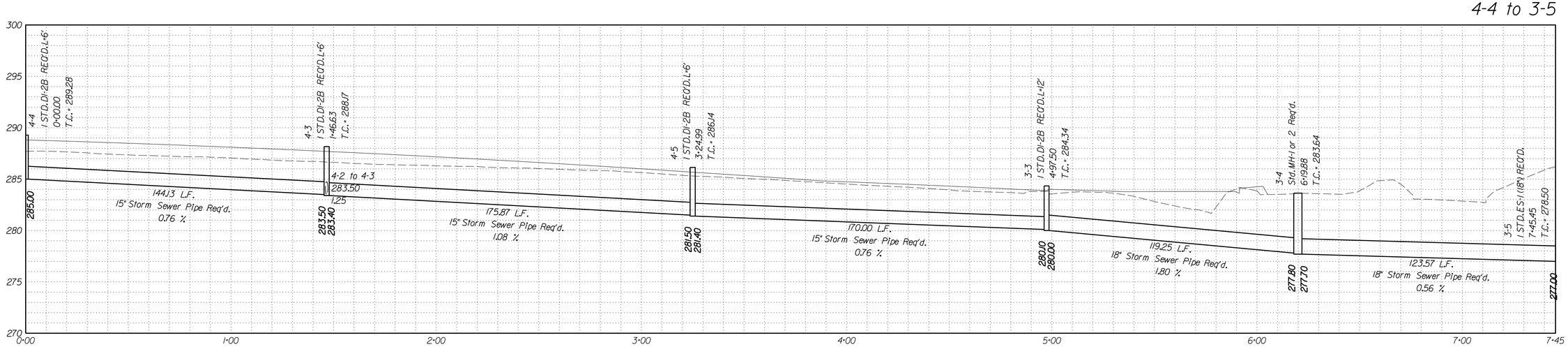
4-1 to 4-3



EX161 to 5-12



4-4 to 3-5



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

Legend

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

VDOT PROJECT NO.	SHEET NO.
0621-076-265	2L

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DESIGN BY RDA: Mark A. Gunn, P.E. (703) 334-9288
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Storm Sewer Profiles

REVISED	STATE	STATE ROUTE	STATE VDOT PROJECT NO.	SHEET NO.
	VA.	621	0621-076-265 PE101 C501 RW201	2L(1)

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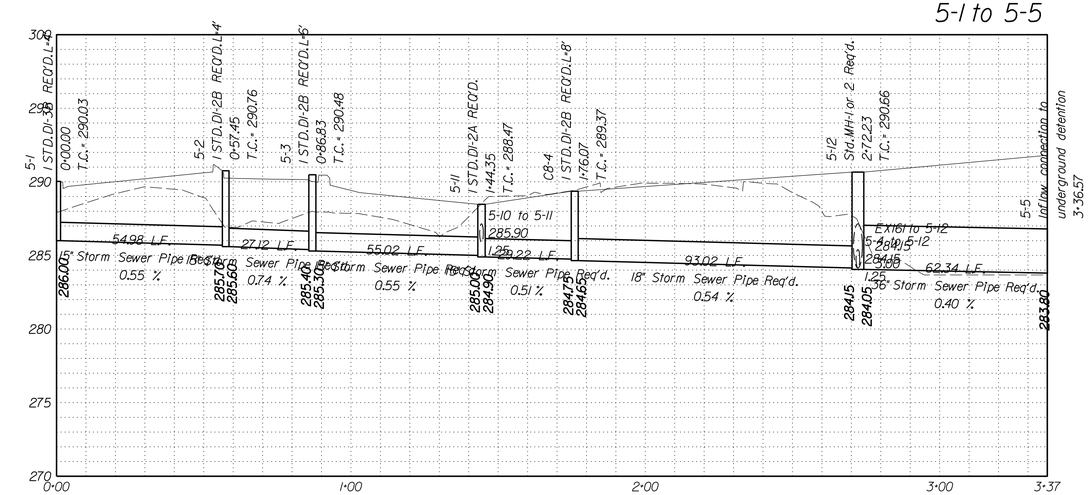
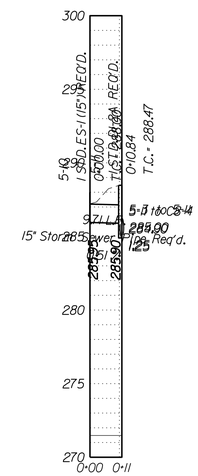
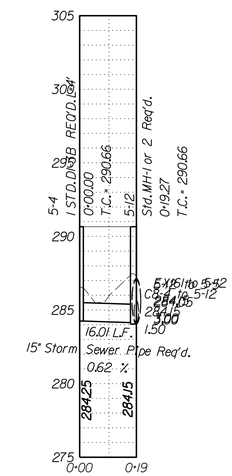
5-1 to 5-5



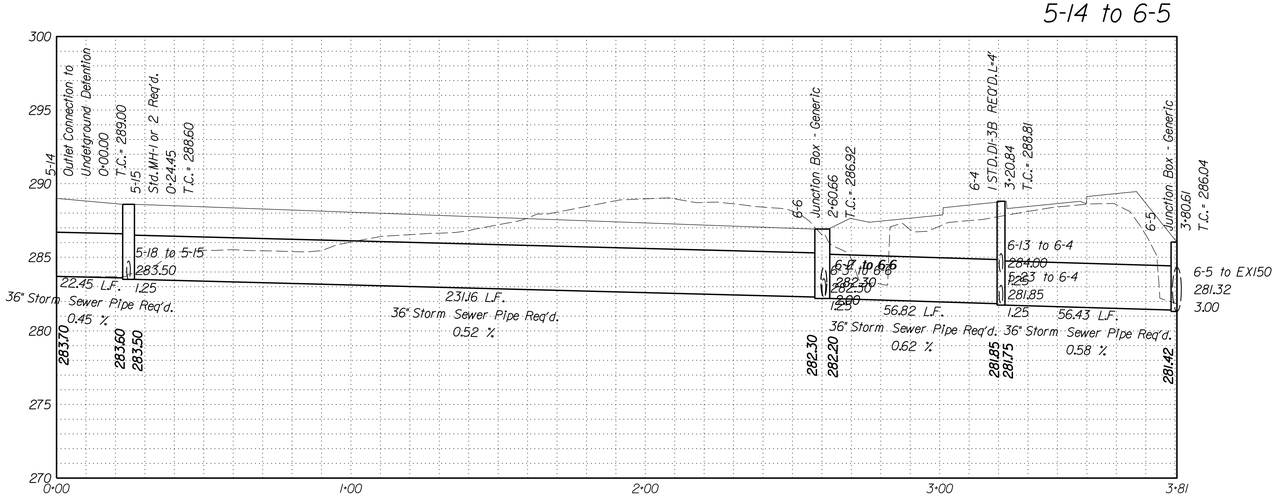
5-10 to 5-11



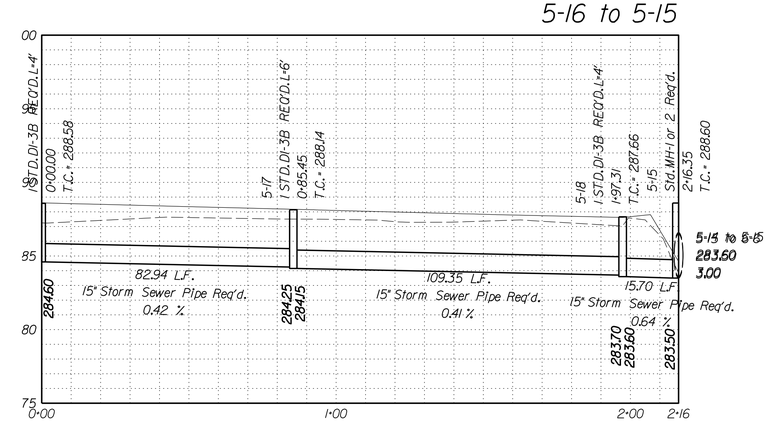
5-4 to 5-12



5-14 to 6-5



5-16 to 5-15



SCALE
V: 1"=5'
H: 1"=25'
0 25' 50'

Legend

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

VDOT PROJECT NO.	SHEET NO.
0621-076-265	2L(1)

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P.H. PLANS

PROJECT MANAGER PWCDOT: Khattab Shammout, P.E. (703) 792-7193
SURVEYED BY, DATE RDA: Ryan Dreella LS (703) 334-9302: September, 2018
DESIGN BY RDA: Mark A. Gunn, P.E. (703) 334-9288
SUBSURFACE UTILITY BY, DATE Accumark (703) 378-0100: November 2018

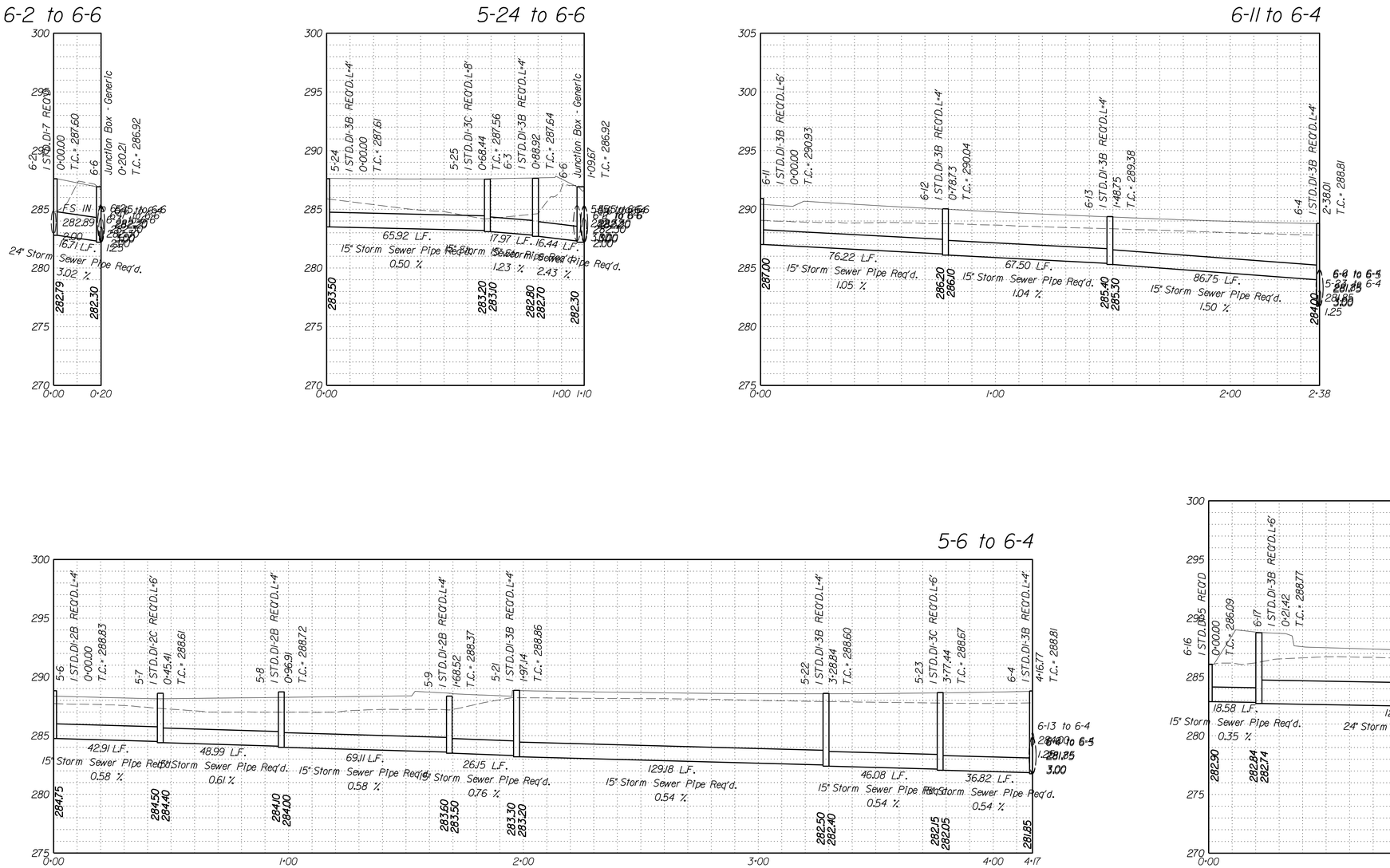
Storm Sewer Profiles

REVISED	STATE	STATE ROUTE	STATE VDOT PROJECT NO.	SHEET NO.
	VA.	621	0621-076-265 PE101 C501 RW201	2L(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)

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



Legend

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

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

VDOT PROJECT NO.	SHEET NO.
0621-076-265	2L(2)

ADDITIONAL EASEMENTS FOR UTILITY RELOCATIONS MAY BE REQUIRED BEYOND THE PROPOSED RIGHT-OF-WAY SHOWN ON THESE PLANS

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P.H. PLANS

Rinker Design Associates, P.C.
Civil Engineering - Surveying - Land Planning
Transportation - Environmental
Right of Way Services
Office Locations
8180 Greensboro Drive, Suite 1000, McLean, VA 22102, Phone: (703) 790-9220, Fax: (703) 790-9221
8180 Greensboro Drive, Suite 1000, McLean, VA 22102, Phone: (703) 790-9220, Fax: (703) 790-9221
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www.RDAinc.com

3/25/2019

PROJECT MANAGER PWCDOT: Khattab Shammout, P.E. (703) 792-7193
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SUBSURFACE UTILITY BY, DATE Accumark (703) 378-0100: November 2018

Storm Sewer Profiles

REVISED	STATE	ROUTE	VDOT PROJECT NO.	SHEET NO.
	VA.	621	0621-076-265 PE101 C501 RW201	2L(3)

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

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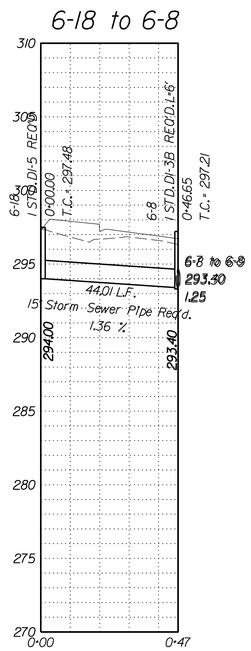

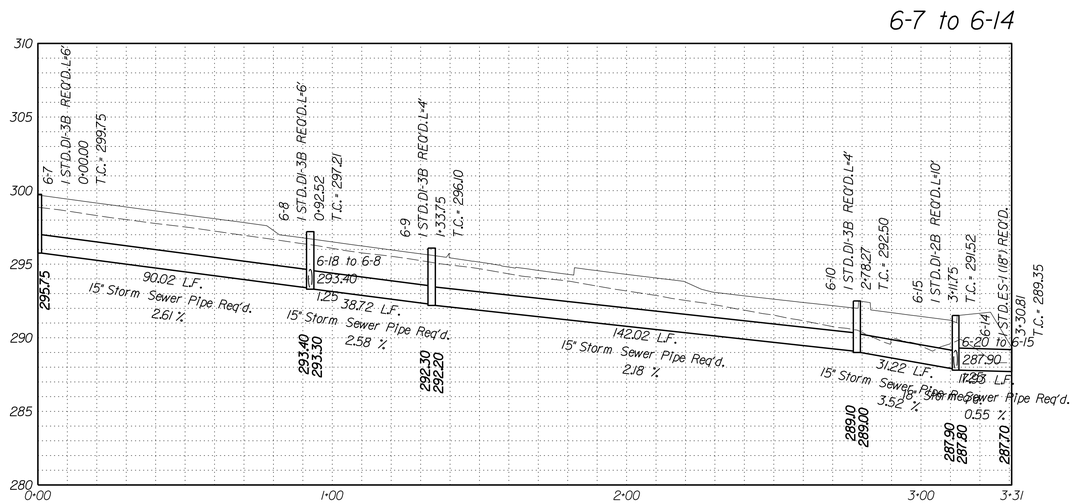

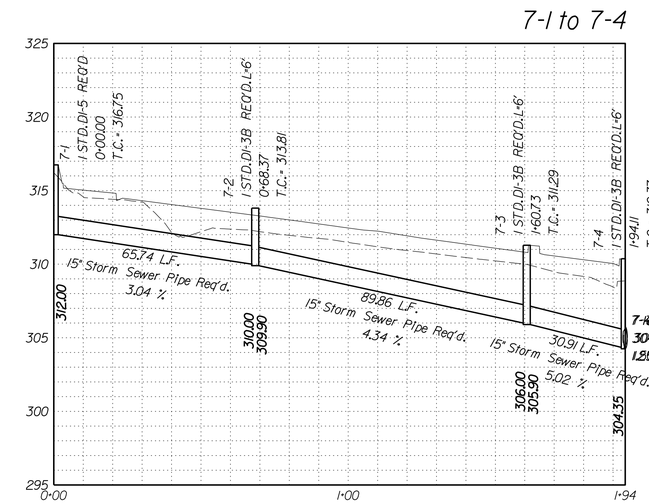

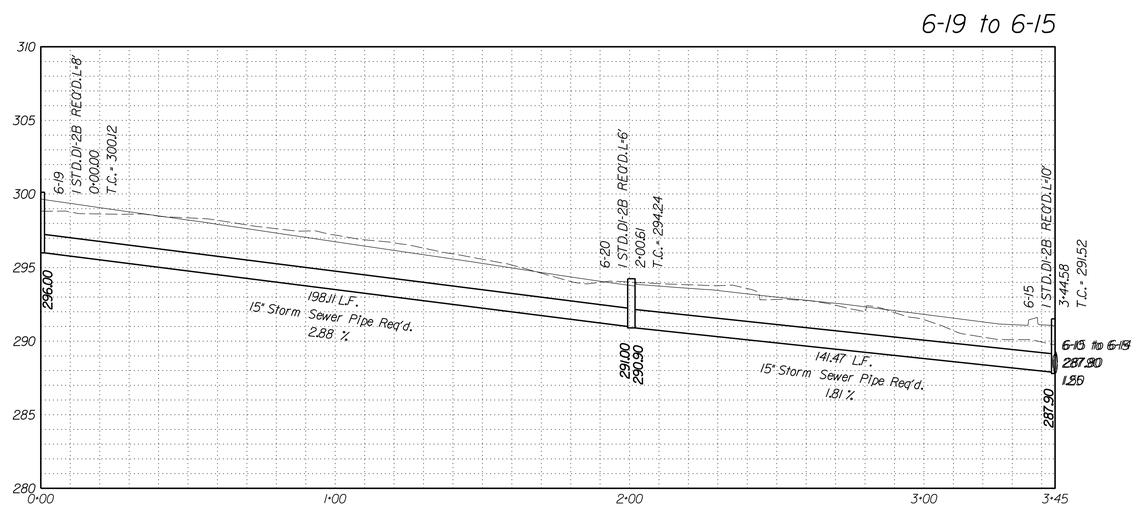

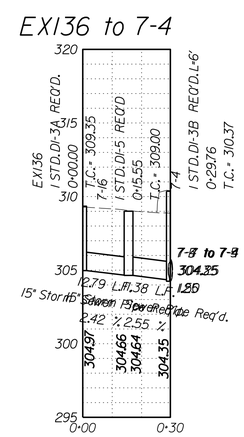

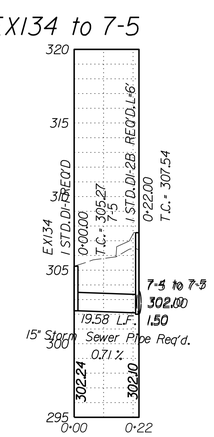

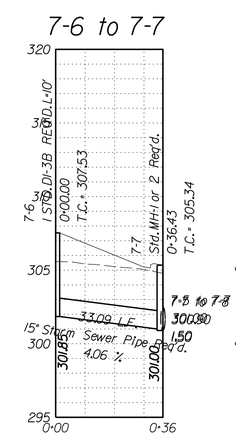

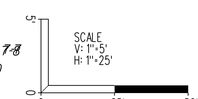

Legend

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

VDOT PROJECT NO.	SHEET NO.
0621-076-265	2L(3)

ADDITIONAL EASEMENTS FOR UTILITY RELOCATIONS MAY BE REQUIRED BEYOND THE PROPOSED RIGHT-OF-WAY SHOWN ON THESE PLANS

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P.H. PLANS

3/25/2019

PROJECT MANAGER PWCDOT: Khattab Shammout, P.E. (703) 792-7193
SURVEYED BY, DATE RDA: Ryan Dreella LS (703) 334-9302: September 2018
DESIGN BY RDA: Mack & Gunn, P.E. (703) 334-9288
SUBSURFACE UTILITY BY, DATE Accumark (703) 378-0100: November 2018

Storm Sewer Profiles

REVISED	STATE	STATE ROUTE	VDOT PROJECT NO.	SHEET NO.
	VA.	621	0621-076-265 PE101 C501 RW201	2L(4)

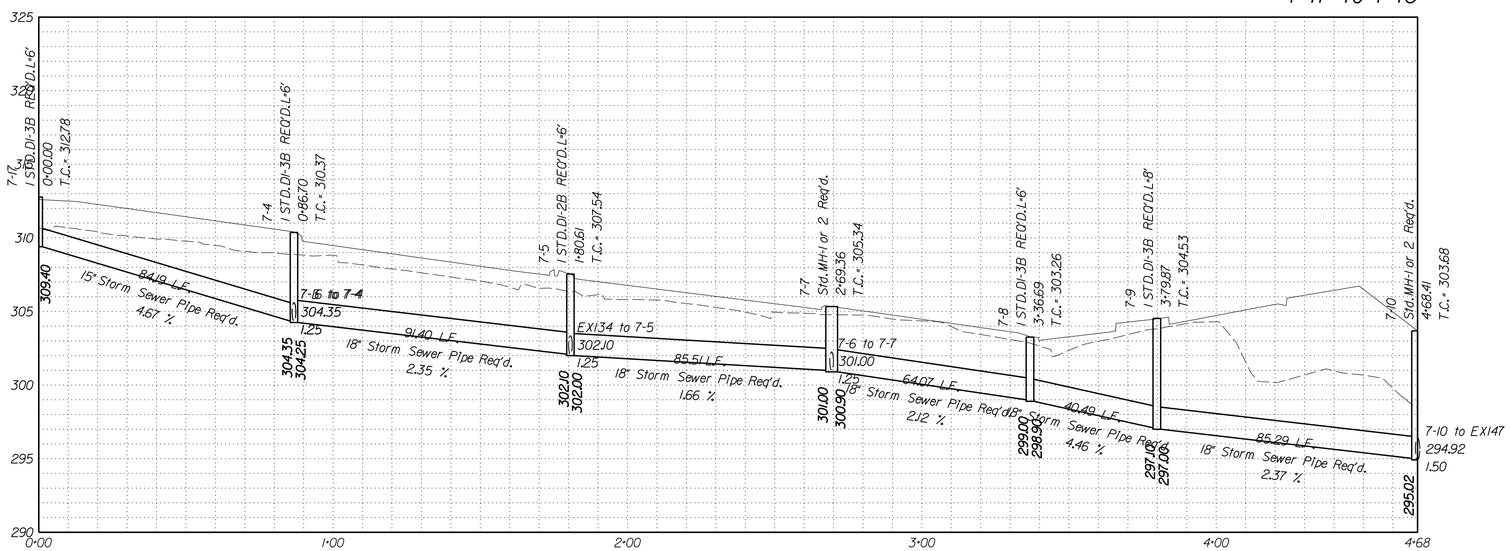
DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT

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

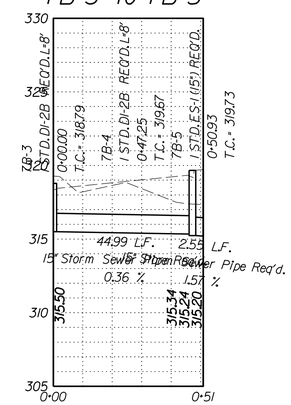
Rinker Design Assoc., P.C. Fredericksburg, Virginia (Roadway)

Rinker Design Associates, P.C.
Civil Engineering - Surveying - Land Planning
Transportation - Environmental
Right-of-Way Services
Office Locations
Fredericksburg: 608 Jackson Street, Suite 100, Fredericksburg, VA 22401, Phone: (540) 373-4651, Fax: (540) 373-4657
Manassas: 8500 Discovery Boulevard, Suite 100, Manassas, VA 20109, Phone: (703) 257-5000, Fax: (703) 257-5001
Plano: 8500 Dominion Boulevard, Suite 100, Plano, TX 75025, Phone: (972) 612-0000, Fax: (972) 612-0000
Alexandria: 2011 Eisenhower Avenue, Suite 100, Alexandria, VA 22314, Phone: (703) 549-5400, Fax: (703) 549-5407
www.RinkerDesign.com

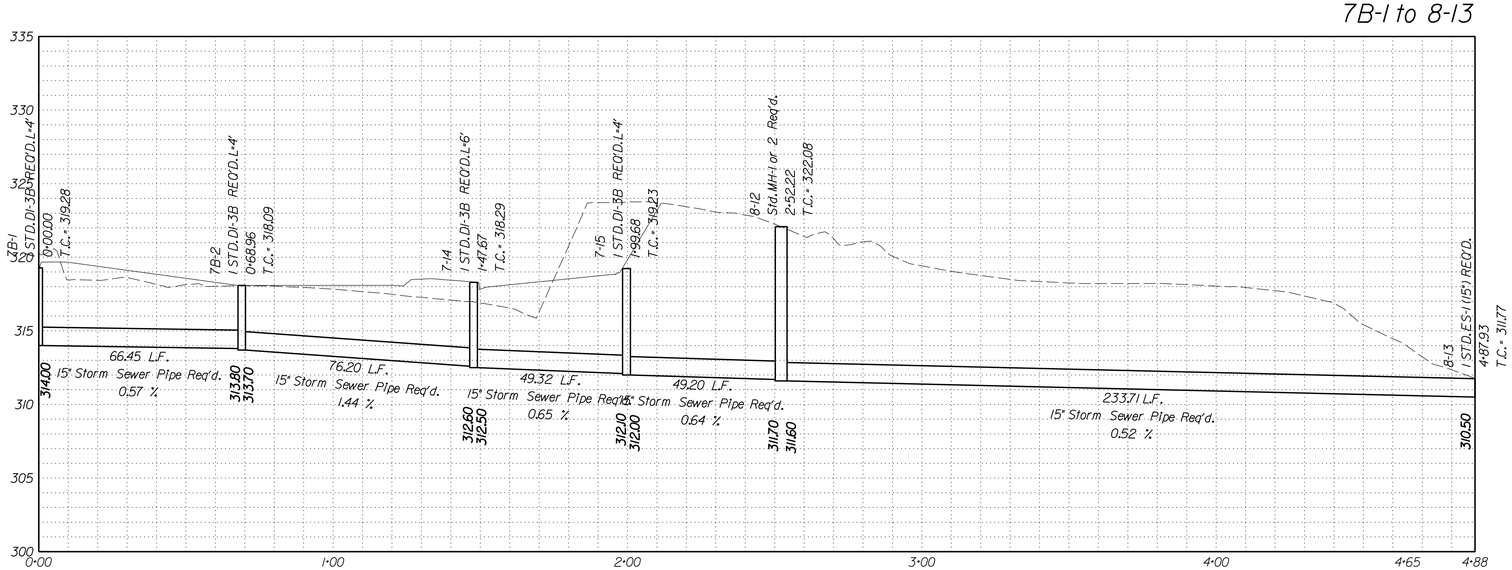
7-17 to 7-10



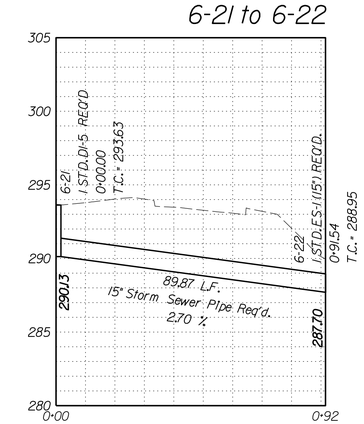
7B-3 to 7B-5



7B-1 to 8-13



6-21 to 6-22



SCALE
V: 1"=5'
H: 1"=25'
0 25' 50'

Legend

- DENOTES PROP. GRADE
- DENOTES EX. GRADE
- DENOTES HGL
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VDOT PROJECT NO.	SHEET NO.
0621-076-265	2L(4)

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P.H. PLANS

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SURVEYED BY, DATE RDA: Ryan Dreella LS (703) 334-9302: September 2018
DESIGN BY RDA: Mark A. Gunn, P.E. (703) 334-9288
SUBSURFACE UTILITY BY, DATE Accumark (703) 378-0100: November 2018

Storm Sewer Profiles

REVISED	STATE	STATE ROUTE	STATE VDOT PROJECT NO.	SHEET NO.
	VA.	621	0621-076-265 PE101 C501 RW201	2L(5)

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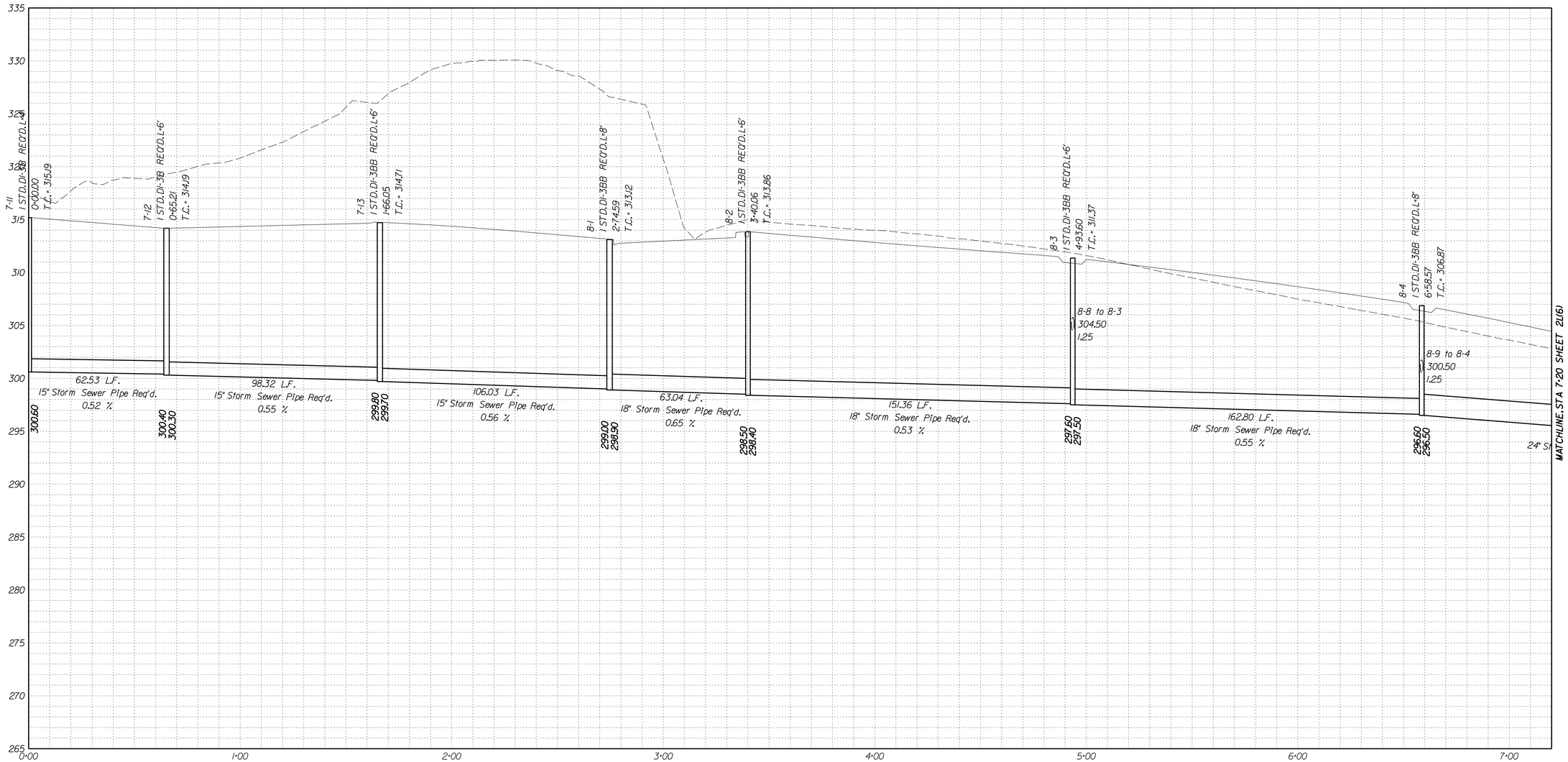

Legend

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

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VDOT PROJECT NO.	SHEET NO.
0621-076-265	2L(5)

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P.H. PLANS

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Right of Way Services
www.rinkerdesign.com

Office Locations
8101 Sudley Road, Suite 200 Manassas, VA 20109 Phone: (703) 330-9300 Fax: (703) 330-9301
8101 Discovery Boulevard, Suite 100 Manassas, VA 20109 Phone: (703) 330-9300 Fax: (703) 330-9301
8101 Sudley Road, Suite 200 Manassas, VA 20109 Phone: (703) 330-9300 Fax: (703) 330-9301
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3/25/2019

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Storm Sewer Profiles

REVISED	STATE	STATE ROUTE	VDOT PROJECT NO.	SHEET NO.
	VA.	621	0621-076-265 PE101 C501 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

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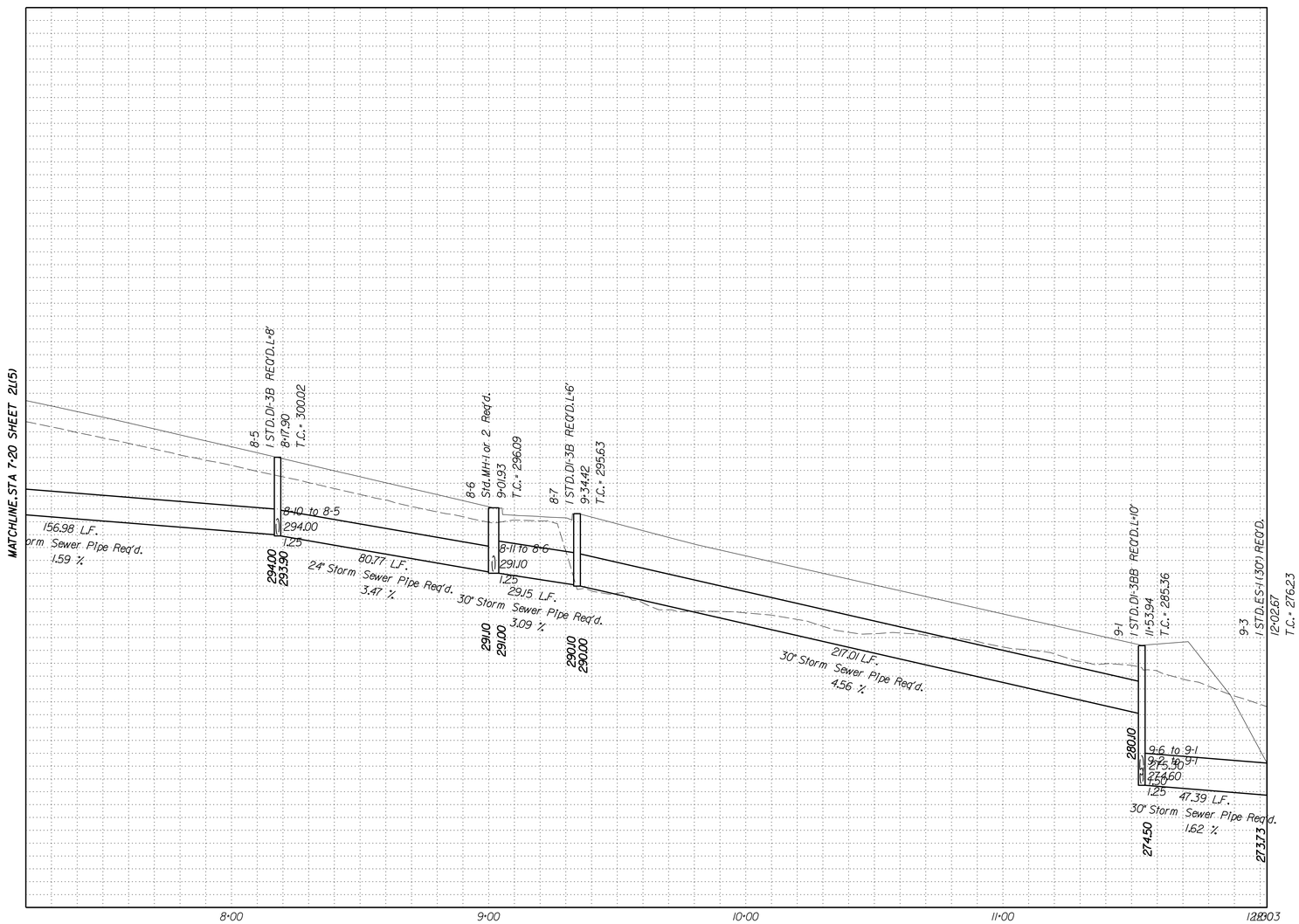

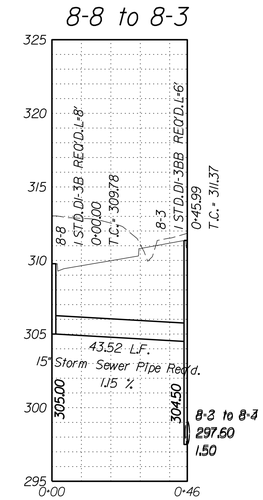

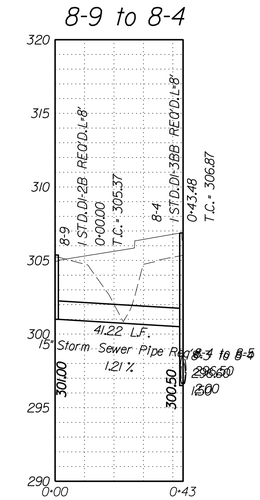

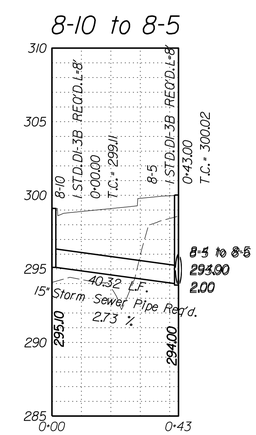

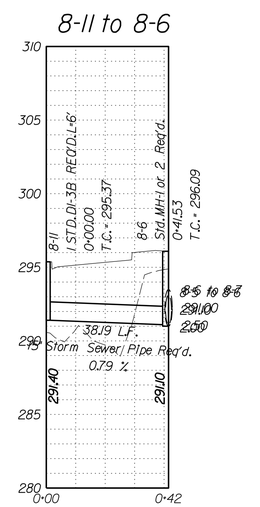

Legend

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

- DENOTES PROP. GRADE
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VDOT PROJECT NO.	SHEET NO.
0621-076-265	2L(6)

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Office Locations
3025 Hospital Drive, Suite 210, Fairfax, VA 22031, Phone: (703) 591-2613, Fax: (703) 591-2617
4100 Dominion Boulevard, Suite 101, Glen Allen, VA 23060, Phone: (804) 747-1758, Fax: (804) 747-1760
4100 Discovery Boulevard, Suite 200, Cheyenne, WY 82009, Phone: (307) 635-0341, Fax: (307) 635-0342
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PROJECT MANAGER PWCDOT: Khattab Shammout, P.E. (703) 792-7793
SURVEYED BY, DATE RDA: Ryan Dreella LS (703) 334-9302: September 2018
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SUBSURFACE UTILITY BY, DATE Accumark (703) 378-0100: November 2018

Storm Sewer Profiles

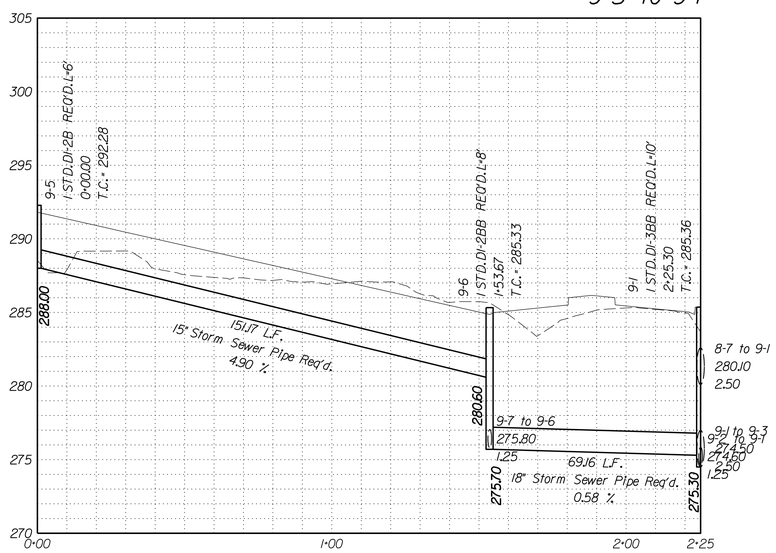
REVISED	STATE	ROUTE	STATE VDOT PROJECT NO.	SHEET NO.
	VA.	621	0621-076-265 PE101 C501 RW201	2L(7)

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

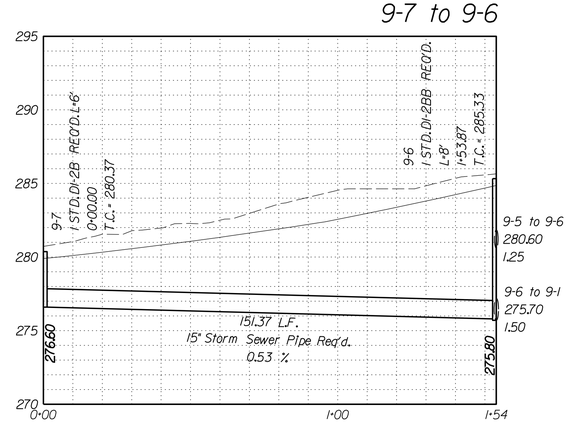
Rinker Design Assoc., P.C. Fredericksburg, Virginia (Hydraulics)

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

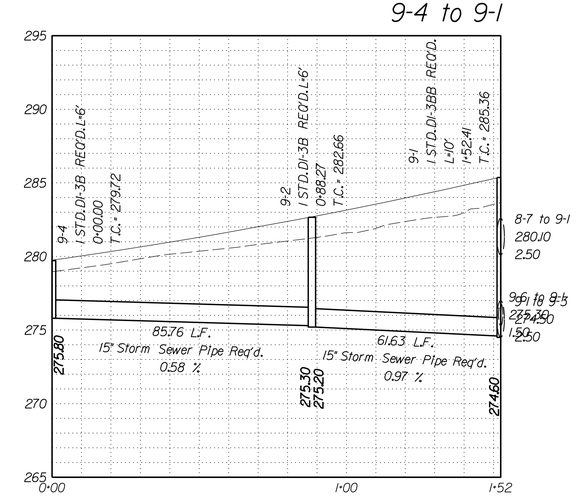
9-5 to 9-1



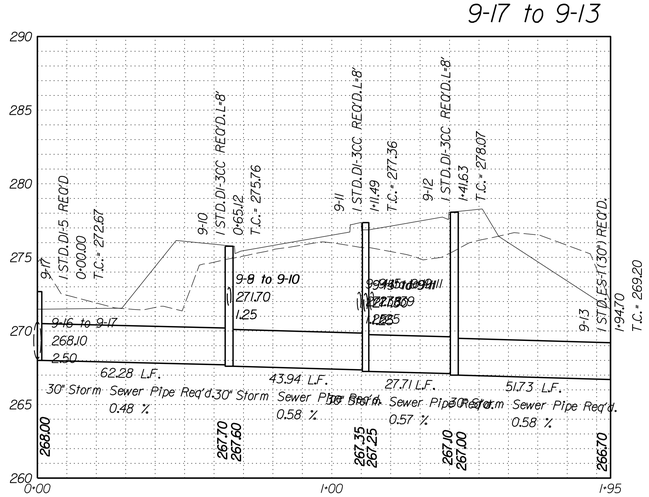
9-7 to 9-6



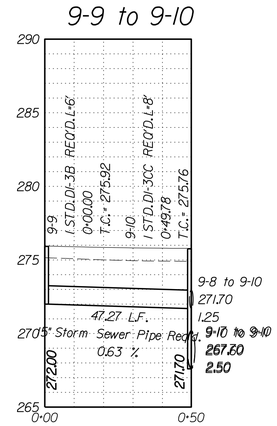
9-4 to 9-1



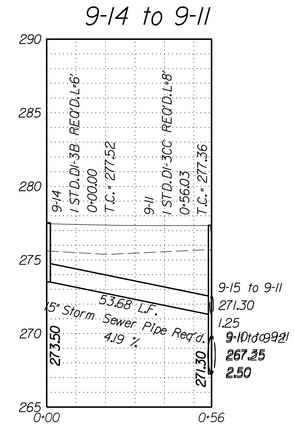
9-17 to 9-13



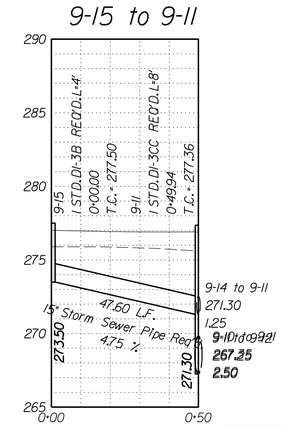
9-9 to 9-10



9-14 to 9-11



9-15 to 9-11



SCALE
V: 1"=5'
H: 1"=25'
0 25' 50'

Legend

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

SCALE 0 25' 50'

VDOT PROJECT NO. 0621-076-265

SHEET NO. 2L(7)

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P.H. PLANS

3/25/2019

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Storm Sewer Profiles

REVISED	STATE	STATE ROUTE	STATE VDOT PROJECT NO.	SHEET NO.
	VA.	621	0621-076-265 PE101 C501 RW201	2L(8)

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

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Rinker Design Associates, P.C.
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8101 Discovery Boulevard, Suite 100
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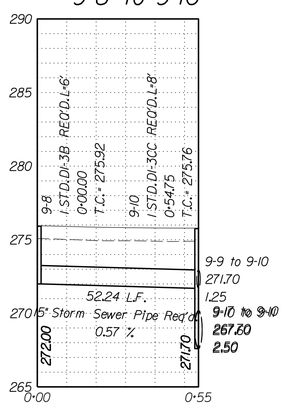
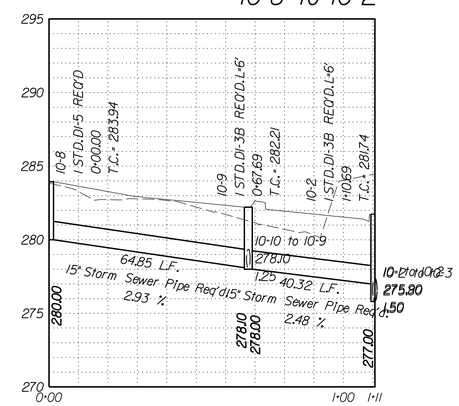
Phone: (703) 330-9302
Fax: (703) 330-9303
8101 Dominion Boulevard, Suite 100
Glen Allen, VA 23060
Phone: (804) 346-4117
Fax: (804) 346-4117
www.RDAinc.com

9-8 to 9-10

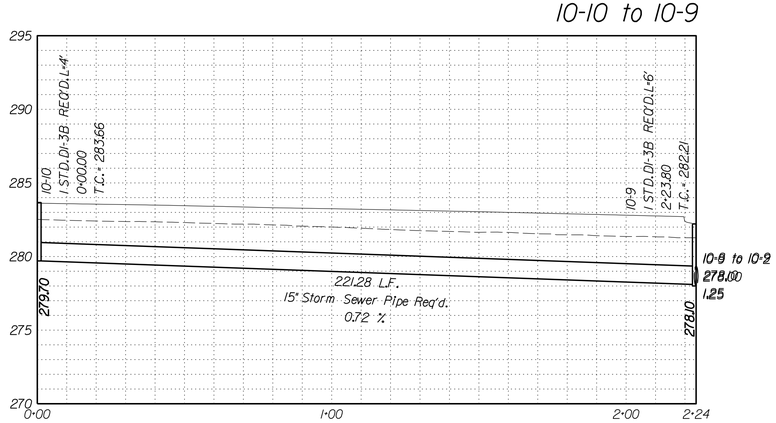


9-19 to EX128

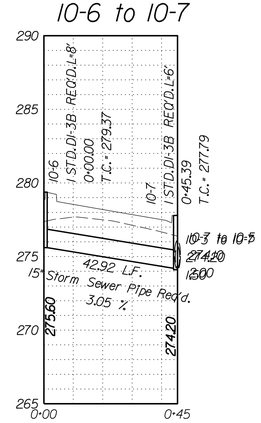
10-8 to 10-2

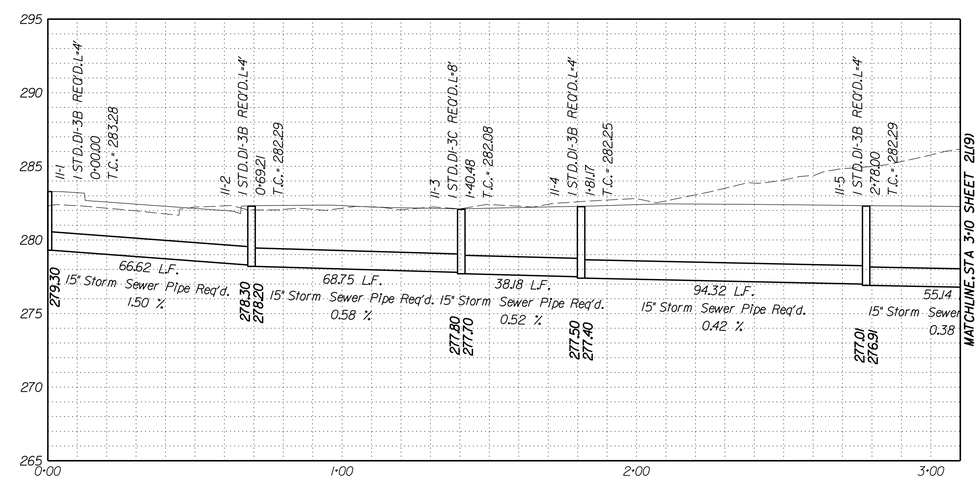


10-10 to 10-9



10-6 to 10-7





Legend

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

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

VDOT PROJECT NO.	SHEET NO.
0621-076-265	2L(8)

ADDITIONAL EASEMENTS FOR UTILITY RELOCATIONS MAY BE REQUIRED BEYOND THE PROPOSED RIGHT-OF-WAY SHOWN ON THESE PLANS

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

P.H. PLANS

Rinker Design Associates, P.C.
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PROJECT MANAGER PWCDOT: Khattab Shammout, P.E. (703) 792-7193
SURVEYED BY, DATE RDA: Ryan Dreella LS (703) 334-9302: September 2018
DESIGN BY RDA: Mark A. Gunn, P.E. (703) 334-9288
SUBSURFACE UTILITY BY, DATE Accumark (703) 378-0100: November 2018

Storm Sewer Profiles

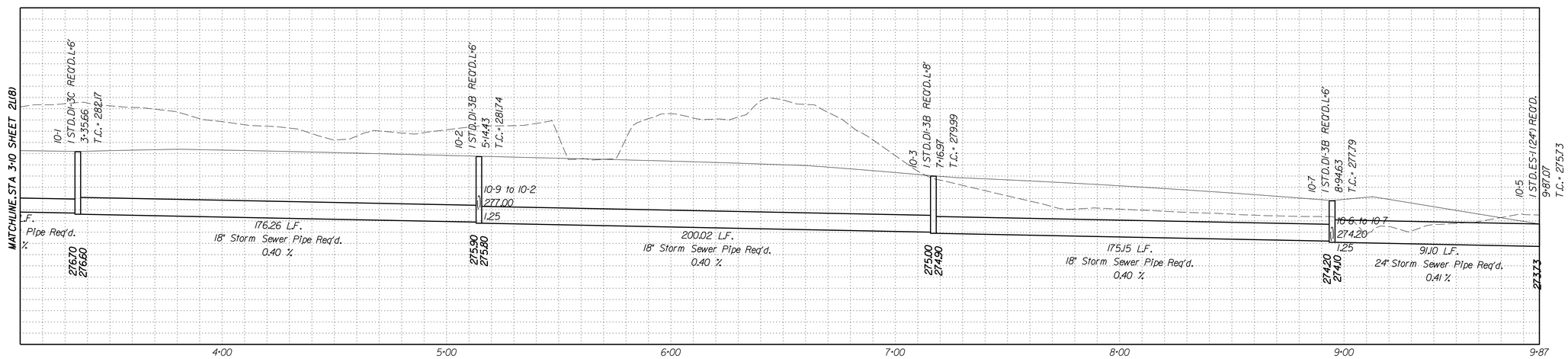
REVISED	STATE	ROUTE	VDOT PROJECT NO.	SHEET NO.
	VA.	621	0621-076-265 PE101 C501 RW201	2L(9)

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

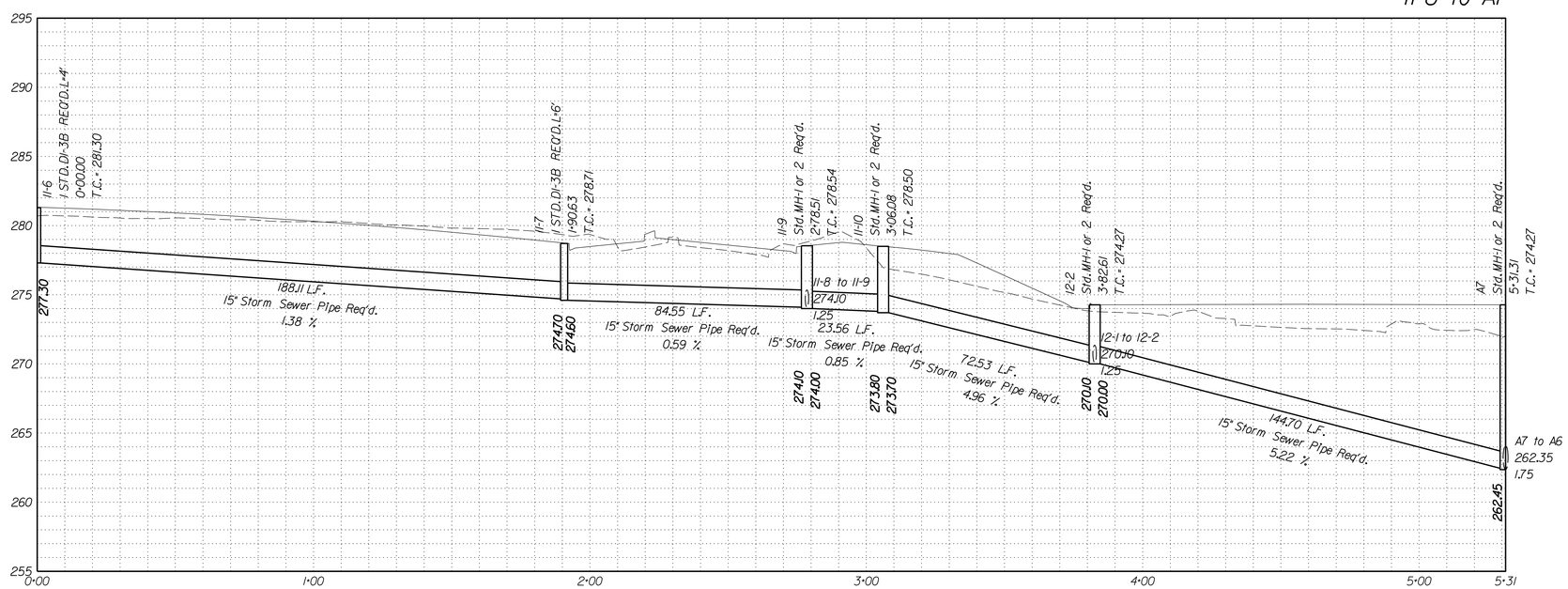
Rinker Design Assoc., P.C. Fredericksburg, Virginia (Hydraulics)

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

11-1 to 10-5



11-6 to A7



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

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

VDOT PROJECT NO.	SHEET NO.
0621-076-265	2L(9)

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P.H. PLANS

PROJECT MANAGER PWCDOT: Khattab Shammout, P.E. (703) 792-7193
SURVEYED BY, DATE RDA: Ryan Dreella LS (703) 334-9302: September 2018
DESIGN BY RDA: Mack A. Gunn, P.E. (703) 334-9288
SUBSURFACE UTILITY BY, DATE Accumark (703) 378-0100: November 2018

Storm Sewer and Culvert Profiles

REVISED	STATE	ROUTE	VDOT PROJECT NO.	SHEET NO.
	VA.	621	0621-076-265 PE101 C501 RW201	2L(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)

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

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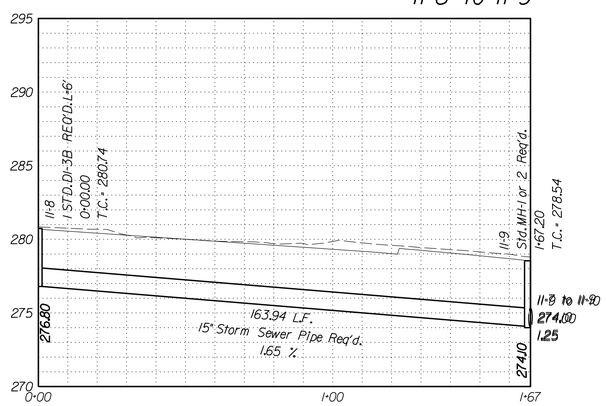
Manassas: 8500 Discovery Boulevard, Suite 100, Manassas, VA 20109, Phone: (703) 330-9300, Fax: (703) 330-9301
Richmond: 8020 Ashcroft Avenue, Suite 100, Richmond, VA 23294, Phone: (804) 346-7000, Fax: (804) 346-8077
Virginia Beach: 2700 Pacific Avenue, Suite 100, Virginia Beach, VA 23451, Phone: (757) 425-1000, Fax: (757) 425-0077
www.RDAinc.com

11-8 to 11-9



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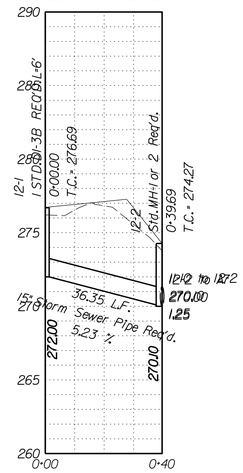
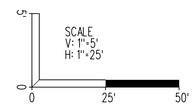
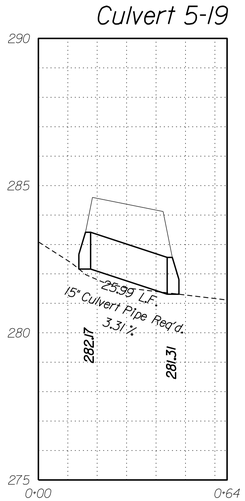




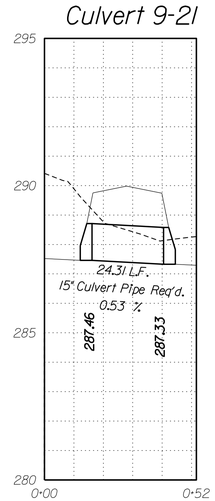
ALLOWABLE TYPE OF PIPE CULVERT (UNLESS OTHERWISE SHOWN IN DRAINAGE DESCRIPTIONS) (SEE ROAD AND BRIDGE STANDARD PC-1 FOR HEIGHT OF COVER LIMITATIONS FOR EACH TYPE)											
LOCATION	CONCRETE	ALUMINUM COATED TYPE 2 CORRUGATED STEEL	POLYMER COATED (10/10) CORRUGATED STEEL	UNCOATED GALVANIZED CORRUGATED STEEL	GALVANIZED STEEL STRUCTURAL PLATE	GALVANIZED STEEL STRUCTURAL PLATE WITH THICKENED INVERT	CORRUGATED ALUMINUM ALLOY	CORRUGATED ALUMINUM ALLOY STRUCTURAL PLATE	POLYVINYLCHLORIDE (PVC) RIBBED PIPE (SMOOTH INTERIOR)	POLYETHYLENE (PE) CORRUGATED TYPE C	POLYETHYLENE (PE) CORRUGATED TYPE S	POLYPROPYLENE (PP) TYPE D OR S
ENTRANCE PIPES	X	X	X	X	X	X	X	X	X		X	X

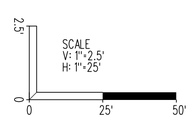
ALLOWABLE TYPE OF STORM SEWER PIPE (UNLESS OTHERWISE SHOWN IN DRAINAGE DESCRIPTIONS) (SEE ROAD AND BRIDGE STANDARD PC-1 FOR HEIGHT OF COVER LIMITATIONS FOR EACH TYPE)								
LOCATION	CONCRETE	ALUMINUM COATED TYPE 2 STEEL SPIRAL RIB	POLYMER COATED (10/10) CORRUGATED STEEL SPIRAL RIB	POLYMER COATED (10/10) CORRUGATED STEEL DOUBLE WALL (SMOOTH INTERIOR)	ALUMINUM SPIRAL RIB	POLYVINYLCHLORIDE (PVC) RIBBED PIPE (SMOOTH INTERIOR)	POLYETHYLENE (PE) CORRUGATED TYPE S	POLYPROPYLENE (PP) TYPE D OR S
BALLS FORD ROAD (RT 621)	X			X		X	X	X
CENTURY PARK DRIVE	X			X		X	X	X
OLD COMPTON ROAD / BETHLEHEM ROAD (RT 821)	X			X		X	X	X
ASHTON AVENUE (RT 1600)	X			X		X	X	X

Culvert 5-19



Culvert 9-21





Legend

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

VDOT PROJECT NO.	SHEET NO.
0621-076-265	2L(10)

ADDITIONAL EASEMENTS FOR UTILITY RELOCATIONS MAY BE REQUIRED BEYOND THE PROPOSED RIGHT-OF-WAY SHOWN ON THESE PLANS

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P.H. PLANS

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NOVA DISTRICT

PROJECT MANAGER PWCDOT: Khattab Shammout, P.E. (703) 792-7193
SURVEYED BY, DATE RDA: Ryan Dreella LS (703) 334-9302: September, 2018
DESIGN BY RDA: Mark A. Gunn, P.E. (703) 334-9288
SUBSURFACE UTILITY BY, DATE Accumark (703) 378-0100: November, 2018

STORMWATER POLLUTION PREVENTION PLAN (SWPPP) GENERAL INFORMATION SHEET

See Sheet 2 of 3 for Acronyms

REVISED	STATE	ROUTE	VDOT PROJECT NO.	SHEET NO.
	VA.	621	0621-076-265 PE101 C501 RW201	2N

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.

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 I GENERAL INFORMATION

1. Activity Description - The Project is located on Balls Ford Road (Route 621) from approximately Doane Drive (Route 803) to Ashton Avenue (Route 1600), approximately 1.10 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 south and north of Route 621, the addition of several turn lanes, the addition of two signalized intersections 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 25.47 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.

✱✱ 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.

✱✱ 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:
- Bull Run - impaired for recreational uses because of Escherichia coli.
- Broad Run - 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)

Name	Position

✱ 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.)

✱ 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.

✱✱ 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)

✱✱ 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.

✱✱ 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.

✱✱ 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.

Office Locations
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Transportation - Environmental
Right of Way Services
GdaRinker
NOVA DISTRICT

PROJECT MANAGER PWCDOT: Khattab Shammout, P.E. (703) 792-7193
SURVEYED BY, DATE RDA: Ryan Dreella LS (703) 334-9302: September 2018
DESIGN BY RDA: Mark A. Gunn, P.E. (703) 334-9288
SUBSURFACE UTILITY BY, DATE Accumark (703) 378-0100: November 2018

STORMWATER POLLUTION PREVENTION PLAN (SWPPP) GENERAL INFORMATION SHEET

REVISED	STATE	ROUTE	VDOT PROJECT NO.	SHEET NO.
	VA.	621	0621-076-265 PE101 C501 RW201	2N(1)

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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.

✱ Denotes information that is to be provided/completed by the VDOT RLD.
✱✱ Denotes information that is to be provided/completed by the contractor.

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, storageareas 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
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
VESCP - Virginia Erosion and Sediment Control Program

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:
   a. Wastewater from concrete washouts.
   b. Wastewater from the washout and cleanout of stucco, paint, form release oils, curing compounds and other construction materials.
   c. Fuels, oils or other pollutants used in vehicle and equipment operation and maintenance.
   d. Oils, toxic substances or hazardous substances from spills or other releases.
   e. Soaps, solvents or detergents used in equipment and vehicle washing.
   f. 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:
   a. Discharges from fire fighting activities.
   b. Fire hydrant flushings.
   c. 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.
   d. Water used to control dust that has been filtered, settled or similarly treated prior to discharge.
   e. Potable water sources including uncontaminated waterline flushings.
   f. 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.
   g. 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.
   h. Uncontaminated air conditioning or compressor condensate.
   i. Uncontaminated ground water or spring water.
   j. Foundation or footing drains where flows are not contaminated with process materials such as solvents.
   k. Uncontaminated excavation dewatering, including dewatering trenches and excavations that have been filtered, settled or similarly treated prior to discharge.
   l. 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:
   a. Identify the potential pollutant-generating activities and the pollutant that is expected to be exposed to stormwater.
   b. 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.
   c. 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.
   d. Identify the person(s) or contractor(s) responsible for implementing and maintaining the pollution prevention practice or practices for each pollutant-generating activity.
   e. Describe the pollution prevention practices and procedures that will be implemented to:
      1) 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.
      2) Prevent the discharge of spilled and leaked fuels and chemicals from vehicle fueling and maintenance activities.
      3) 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.
      4) Minimize the discharge of pollutants from vehicle and equipment washing, wheel wash water, and other types of washing.
      5) 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.
      6) 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.
      7) Prevent the discharge of fuels, oils, and other petroleum products, hazardous or toxic wastes, and sanitary wastes.
      8) Address any other discharge from any potential pollutant-generating activity not listed herein.
      9) 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 09/29/16

VDOT PROJECT NO.	SHEET NO.
0621-076-265	2N(1)

ADDITIONAL EASEMENTS FOR UTILITY RELOCATIONS MAY BE REQUIRED BEYOND THE PROPOSED RIGHT-OF-WAY SHOWN ON THESE PLANS

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

P.H. PLANS

PROJECT MANAGER PWCDOT: Khattab Shammout, P.E. (703) 792-7193
SURVEYED BY, DATE RDA: Ryan Dreella LS (703) 334-9302: September 2018
DESIGN BY RDA: Mark A. Gunn, P.E. (703) 334-9288
SUBSURFACE UTILITY BY, DATE Accumark (703) 378-0100: November 2018

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

STORMWATER POLLUTION PREVENTION PLAN (SWPPP)
GENERAL INFORMATION SHEET

REVISED	STATE	ROUTE	VDOT PROJECT NO.	SHEET NO.
	VA.	621	0621-076-265 PE101 C501 RW201	2N(2)

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

ACRONYMS

BMP - Best Management Practice
DEQ - Department of Environmental Quality
EPA - U.S. Environmental Protection Agency
ESC - Erosion and Sediment Control
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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)

Plan Sheet(s)	BMP Type (See Table 1 and 3)	County or City	Latitude/Longitude (1) LAT	LONG	State Hydrologic Unit Code (7)	Receiving Stream Name (2)	Name of Impaired Water (9)	Acres Treated Per BMP (3) Impervious	Pervious	TOTAL	✱ BMP Maintenance ID Number (10)	BMP Maintenance Manual (11) SECTION	BMP Inspection Manual (11) SECTION
	Bioretention Basin (3-1)	Prince William	38.7934 N	77.5473 W	PL44	Unnamed Tributary to Youngs Branch	Bull Run					4	4
	Extended Detention Pond (5-1)*	Prince William	38.7932 N	77.5430 W	PL34	Dawkins Branch	Broad Run					7	7
	Bioretention Basin (6-1)	Prince William	38.7932 N	77.5403 W	PL34	Dawkins Branch	Broad Run					4	4
	Dry Swale (8-1)	Prince William	38.7945 N	77.5349 W	PL44	Chinn Branch	Bull Run					4	4
	Wet Pond (9-1)	Prince William	38.7956 N	77.5328 W	PL44	Chinn Branch	Bull Run					7	7

*This facility is a Quantity Control Facility Only. It does not provide BMP treatment.

ALTERNATIVE BMP INFORMATION
Table B

BMP Type (See Table 2)	Name of Nutrient Credit Generating Entity (6)	County or City (5)	Latitude/Longitude (1) (5) LAT	LONG	State Hydrologic Unit Code (5) (7)	Project Acres Treated Per BMP (3) Impervious	Pervious	TOTAL	Nutrient Credits (lbs./acre/year) Acquired (6) (12)
Purchase of Nutrient Credits		Prince William			PL34	X.X	X.X	X.X	2.29

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 Share 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
Biorention 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 I 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. All plan revisions shall be completed in accordance with the Road Design Manual and the Construction Division IIM-CD-2013-12.01, signed and sealed in accordance with Department's sealing and signing policy IIM-LD-243 and filed with the record set of construction plans maintained in the VDOT Central Office Plan File Room (Falcon Web Suite). Prior to submitting for termination of coverage under the VPDES General Permit For The Discharge Of Stormwater From Construction Activities, the RLD shall have the District Maintenance Infrastructure Manager review the BMPs installed with the project (BMP Table A) for acceptance of maintenance responsibility and to obtain a Maintenance ID number for each BMP listed in BMP Table A. The RLD shall use the information in BMP Tables A and B along with the assigned Maintenance ID number and the date that the BMP became functional as a permanent control measure (for BMPs in Table A only) to complete the LD-445D form when certifying the construction of the BMPs and submitting for termination of coverage under the VPDES General Permit For The Discharge Of Stormwater From Construction Activities.

Revised 09/29/16
Sheet 3 of 3

VDOT PROJECT NO.	SHEET NO.
0621-076-265	2N(2)

ADDITIONAL EASEMENTS FOR UTILITY RELOCATIONS MAY BE REQUIRED BEYOND THE PROPOSED RIGHT-OF-WAY SHOWN ON THESE PLANS

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P.H. PLANS

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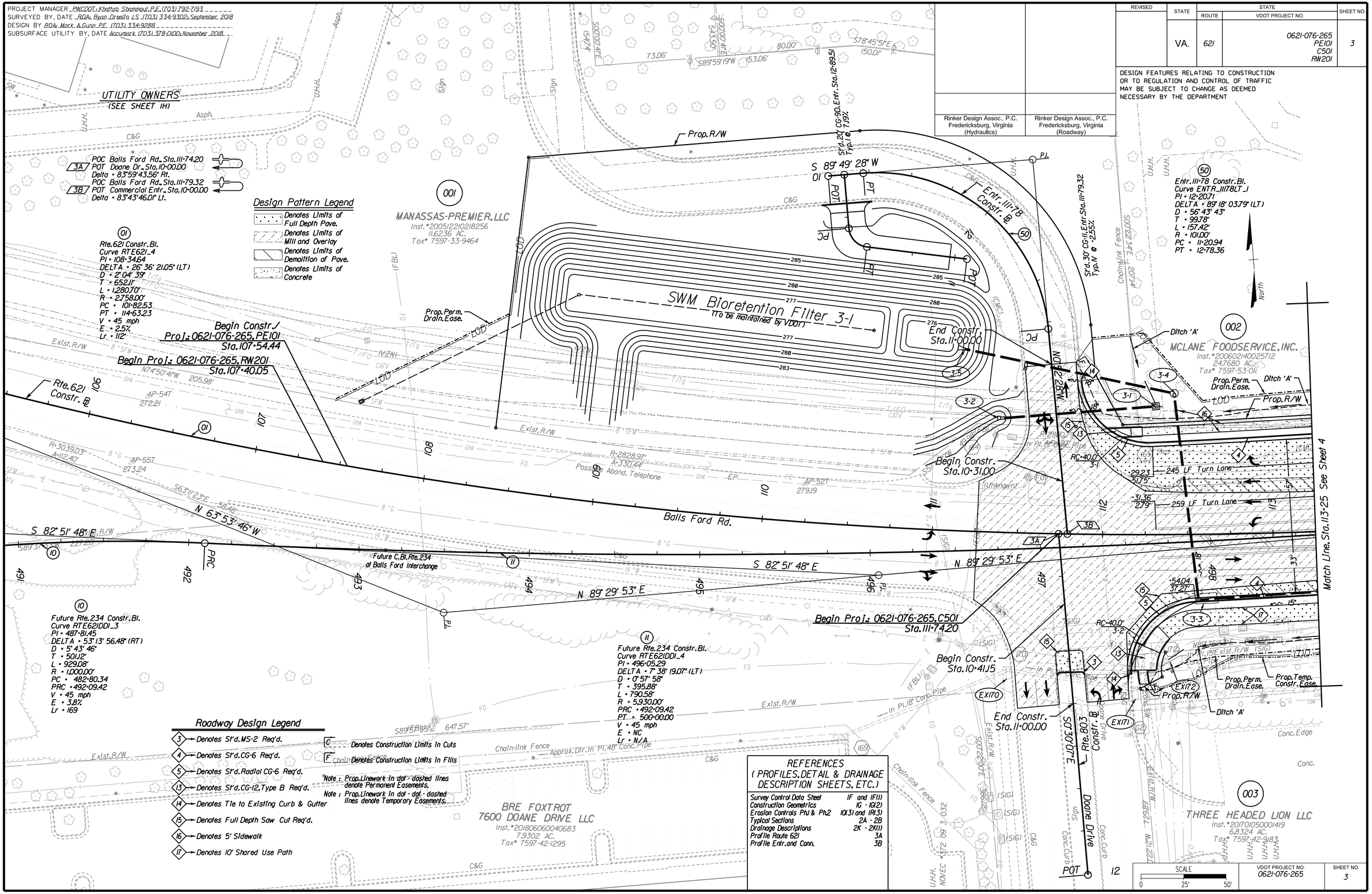
DESIGN BY RDA: Mark A. Gunn, P.E. (703) 334-9288
SUBSURFACE UTILITY BY, DATE Accumark (703) 378-0100, November 2018

REVISED	STATE	ROUTE	STATE VDOT PROJECT NO.	SHEET NO.
	VA.	621	0621-076-265 PE101 C501 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

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

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



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P.H. PLANS

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4101 Dominion Boulevard, Suite 100, Glen Allen, VA 23060, Phone: (804) 747-1992, Fax: (804) 747-1994
8000 Discovery Boulevard, Suite 100, Plano, TX 75024, Phone: (972) 612-0300, Fax: (972) 612-0314

3/25/2019

PROJECT MANAGER _ PWCDOT: Khattab Shammout, P.E. (703) 792-7193 _____
SURVEYED BY, DATE _ RDA: Ryan Dreelin LS (703) 334-9302: September 2018
DESIGN BY _RDA: Mark A. Gunn PE (703) 334-9288 _____
SUBSURFACE UTILITY BY, DATE _Accumark (703) 334-9288: November 2018

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Fax: (804) 673-1004
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Chesapeake, VA 23321
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Fax: (757) 673-1001
4651 Dominion Boulevard
Suite 100
Fredericksburg, VA 22407
Phone: (540) 373-1000
Fax: (540) 373-1001

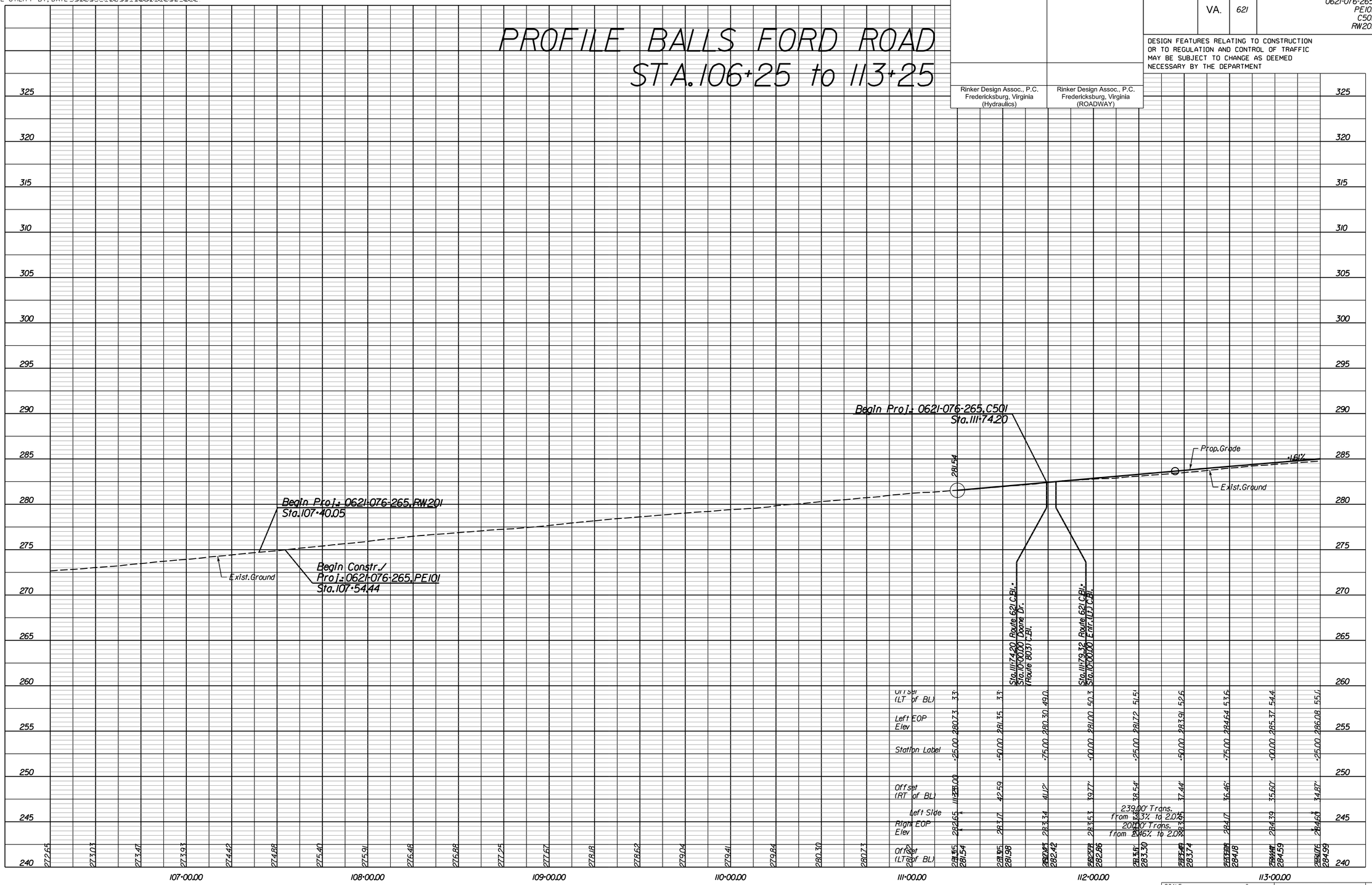
PROFILE BALLS FORD ROAD
STA. 106+25 to 113+25

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

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

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.	621	0621-076-265 PE101 C501 RW201	3A

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



SCALE HORIZ: 1"=25' 0 10' 25' VERT: 1"=5' 0 1 2

VDOT PROJECT NO. 0621-076-265

SHEET NO. 3A

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3/25/2019

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DESIGN BY _RDA: Mark A. Gunn PE (703) 334-9288
SUBSURFACE UTILITY BY, DATE _Accumark (703) 334-9288: November 2018

CONNECTION & ENTRANCE PROFILES

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

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

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.	621	0621-076-265 PE101 C501 RW201	3B

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

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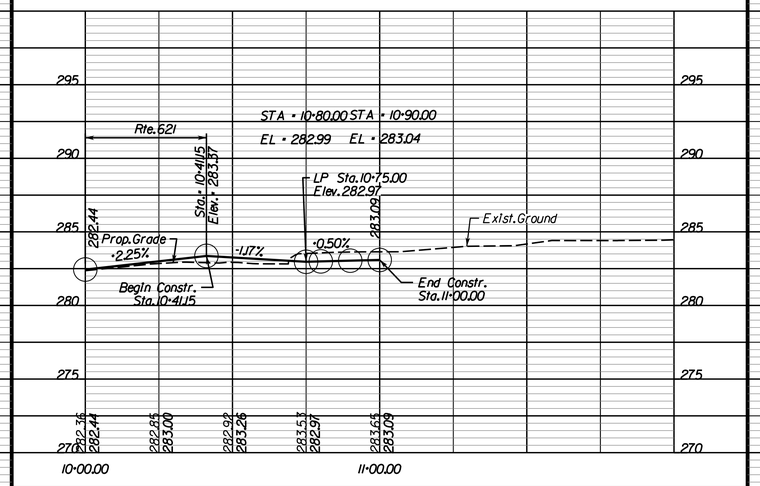

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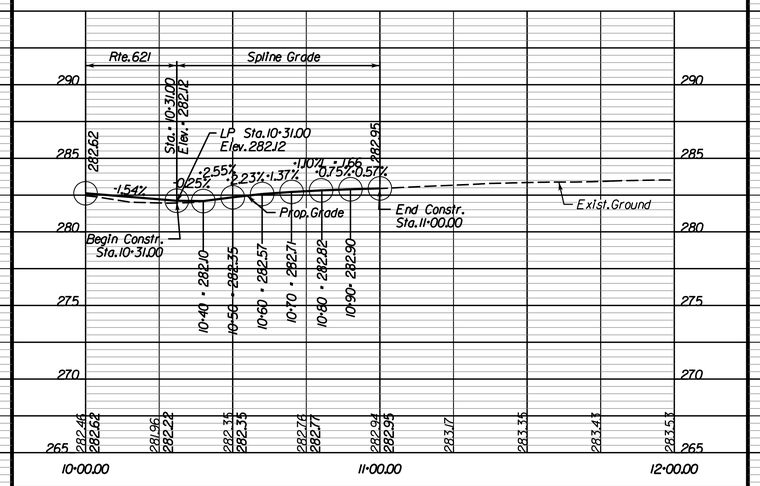

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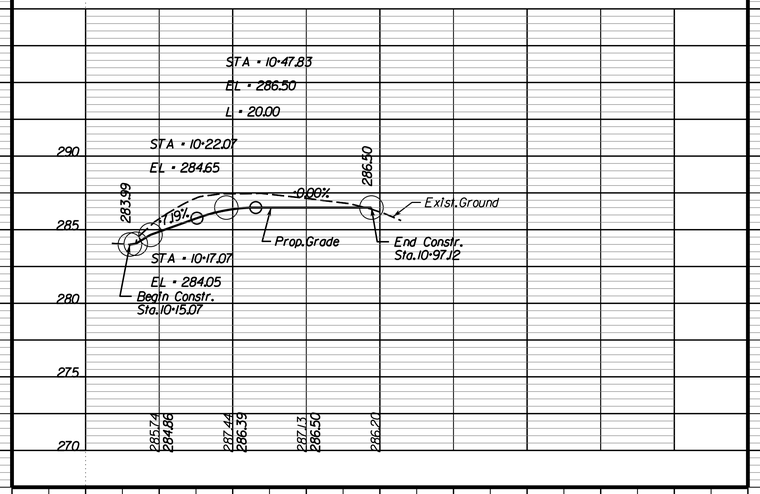

SCALE HORIZ: 1"=25' 0 10' 25' VERT: 1"=5' 0 1 2

VDOT PROJECT NO. 0621-076-265

SHEET NO. 3B

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P.H. PLANS

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Transportation · Environmental
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401 Decision Boulevard, Suite 101, Glen Allen, VA 23060 Tel: (804) 346-1400 Fax: (804) 346-1404
5000 Dominion Boulevard, Suite 101, Manassas, VA 20109 Tel: (703) 335-1400 Fax: (540) 373-1401
401 Eagle Green Drive, Suite 101, Fredericksburg, VA 22407 Tel: (540) 373-1400 Fax: (540) 373-1401

3/25/2019

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SUBSURFACE UTILITY BY, DATE Accumark (703) 378-0100: November 2018

REVISED	STATE	STATE ROUTE	VDOT PROJECT NO.	SHEET NO.
	VA.	621	0621-076-265 PE101 C501 RW201	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 Assoc., P.C. Fredericksburg, Virginia (Roadway)

Rinker Design Associates, P.C.
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8311 Brownsville Road, Suite 300, Fairfax, VA 22031, Phone: (703) 573-7510, Fax: (703) 573-0157
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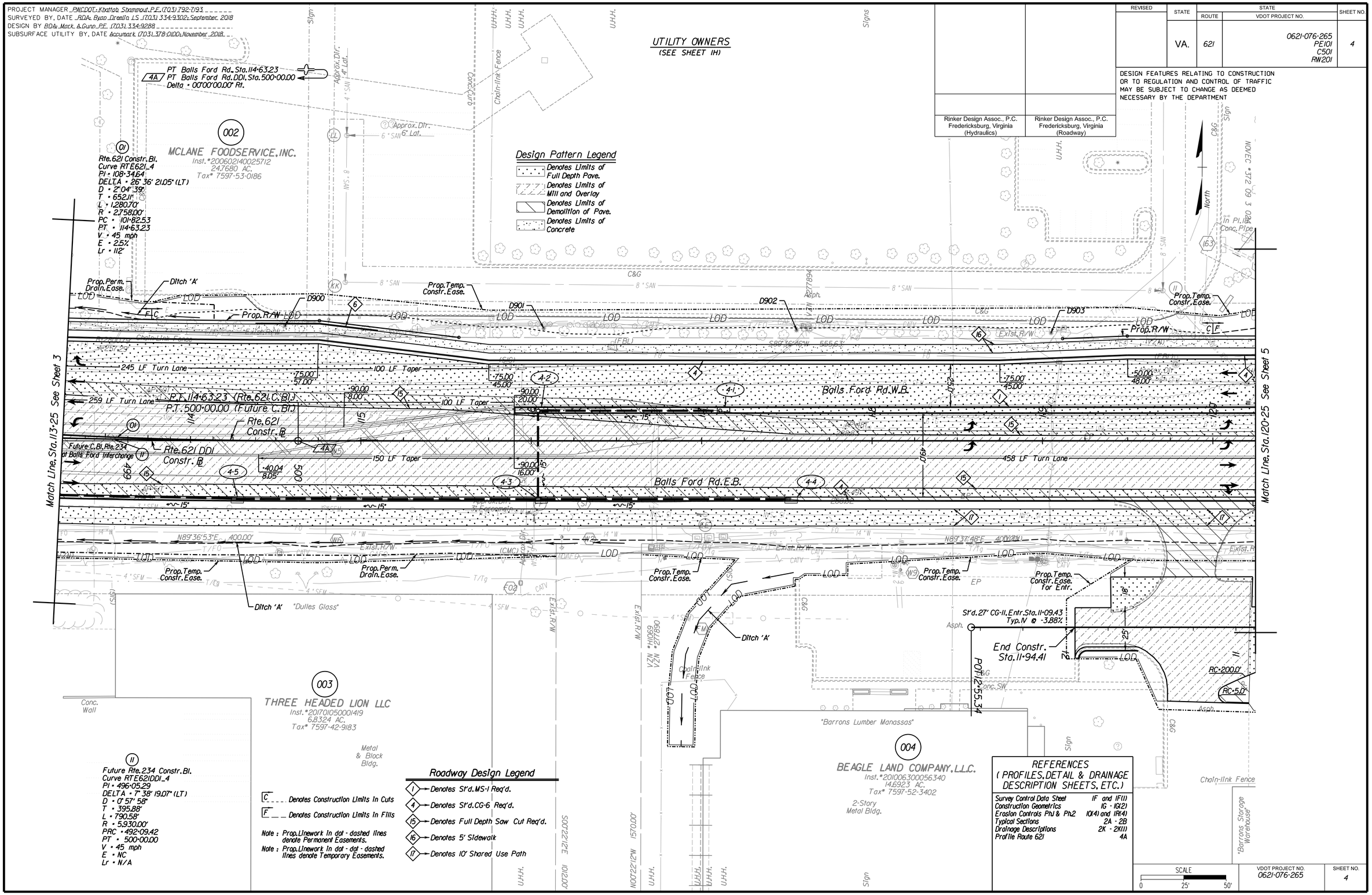

ADDITIONAL EASEMENTS FOR UTILITY RELOCATIONS MAY BE REQUIRED BEYOND THE PROPOSED RIGHT-OF-WAY SHOWN ON THESE PLANS

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

P.H. PLANS

PROJECT MANAGER _ PWCDOT: Khattab Shammout, P.E. (703) 792-7193 _____
SURVEYED BY, DATE _ RDA: Ryan Dreelin LS (703) 334-9302: September 2018
DESIGN BY _RDA: Mark A. Gunn PE (703) 334-9288 _____
SUBSURFACE UTILITY BY, DATE _Accumark (703) 334-9288: November 2018

PROFILE BALLS FORD ROAD
STA. 113+25 to 120+25

Rinker Design Associates, P.C.
Civil Engineering - Surveying - Land Planning
Transportation - Environmental
Right of Way Services
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401 Decision Boulevard, Suite 100, Fredericksburg, VA 22407 Tel: (540) 373-3336 Fax: (540) 373-0344
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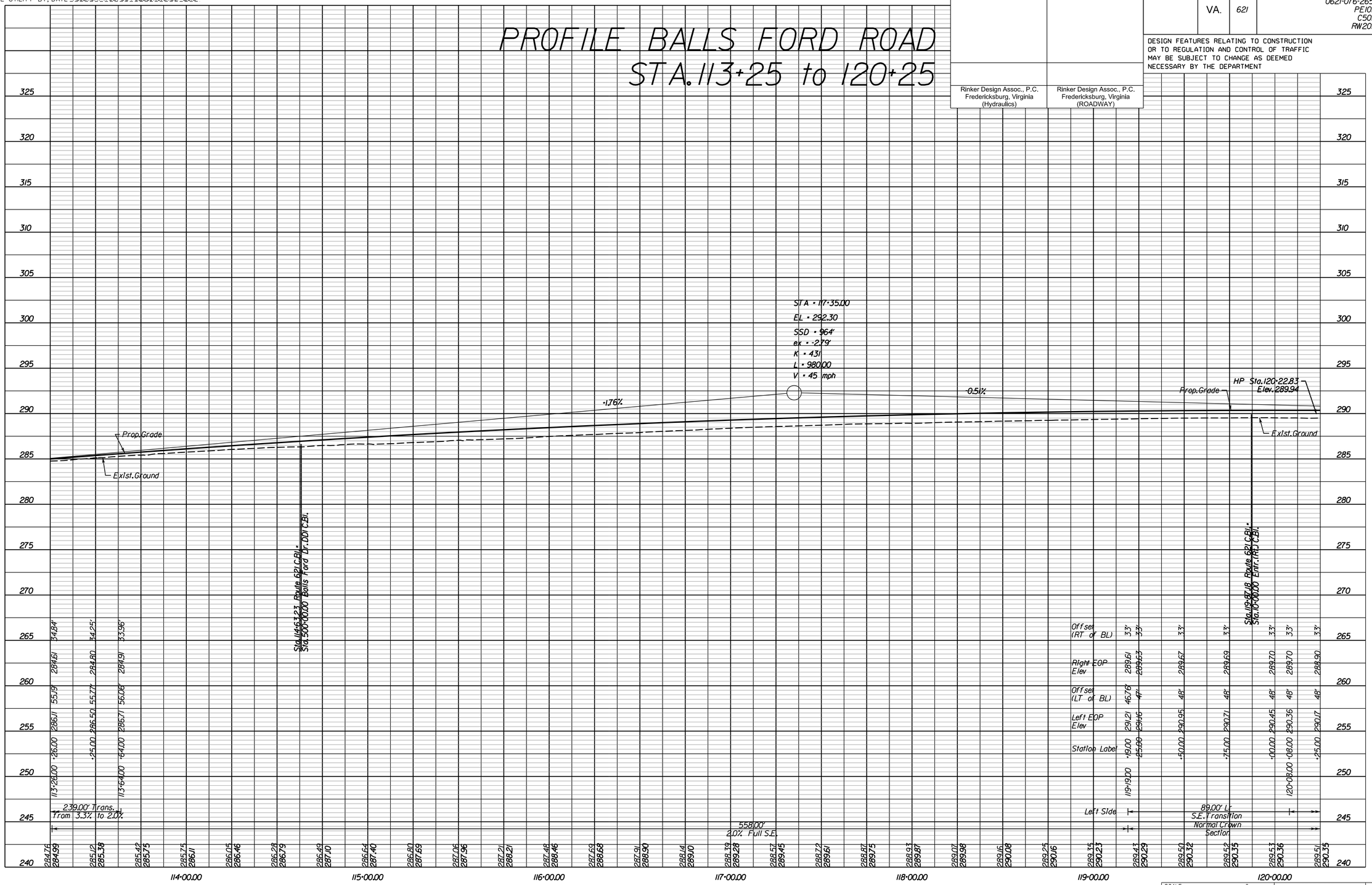
5000 Dominion Boulevard, Suite 100, Manassas, VA 20109 Tel: (703) 335-3340 Fax: (540) 373-0344

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

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

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.	621	0621-076-265 PE101 C501 RW201	4A

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



SCALE	VDOT PROJECT NO.	SHEET NO.
HORIZ: 1"=25' 0 10' 25'; VERT: 1"=5' 0 1 2	0621-076-265	4A

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

P.H. PLANS

3/25/2019

PROJECT MANAGER PWCDOT: Khattab Shammout, P.E. (703) 792-7193
SURVEYED BY, DATE RDA: Ryan Dreella LS (703) 334-9302, September, 2018
DESIGN BY RDA: Mark A. Gunn, PE (703) 334-9288
SUBSURFACE UTILITY BY, DATE Accumark (703) 378-0100, November 2018

REVISED	STATE	ROUTE	STATE VDOT PROJECT NO.	SHEET NO.
	VA.	621	0621-076-265 PE101 C501 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)

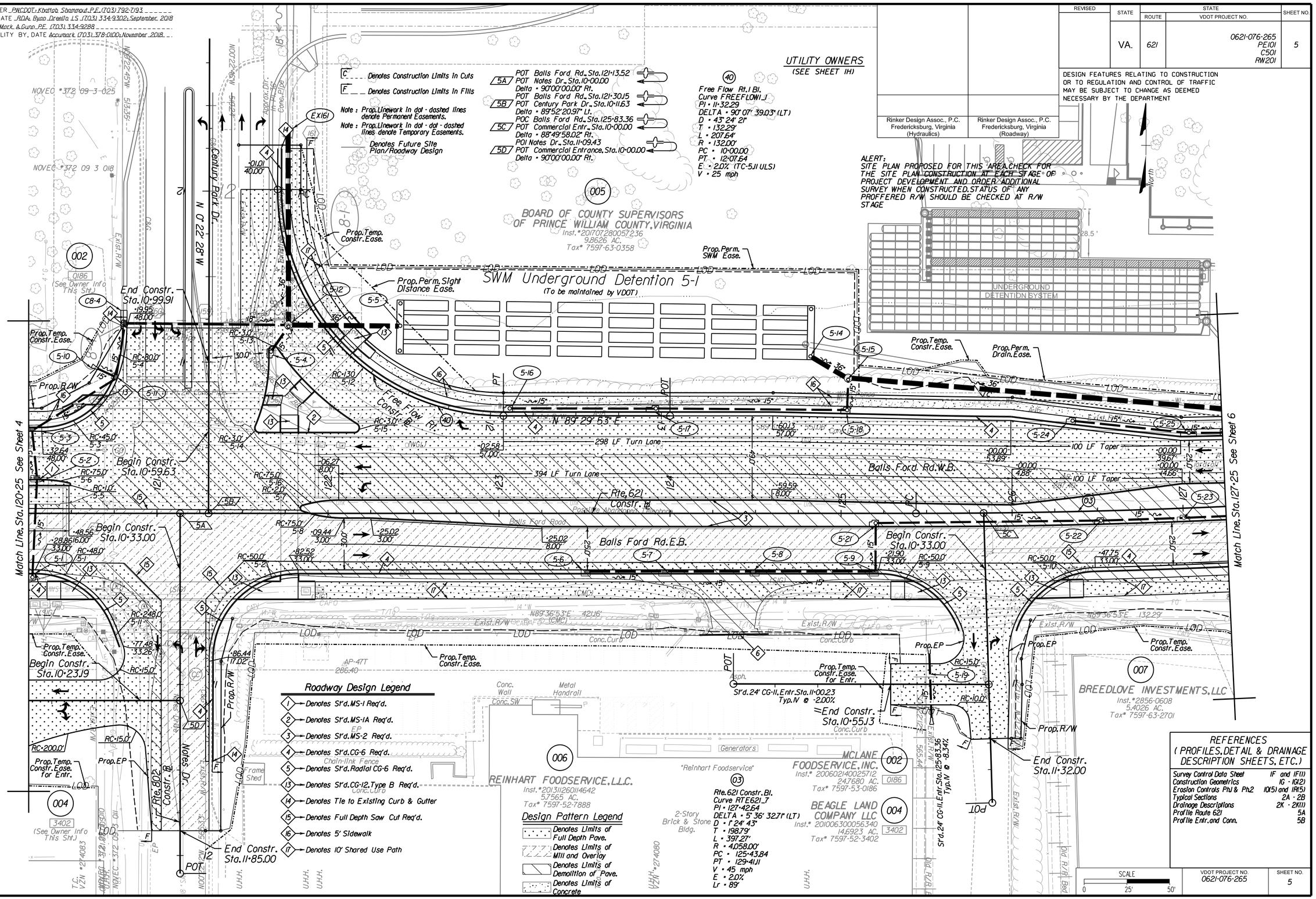
C - - - Denotes Construction Limits In Cuts
F - - - Denotes Construction Limits In Fills

Note: Prop. Linework in dot - dashed lines denote Permanent Easements.
Note: Prop. Linework in dot - dot - dashed lines denote Temporary Easements.
Denotes Future Site Plan/Roadway Design

5A POT Balls Ford Rd., Sta. 121+13.52
POT Notes Dr., Sta. 10+00.00
Delta = 90°00'00.00" Rt.
POT Balls Ford Rd., Sta. 121+30.15
5B POT Century Park Dr., Sta. 10+11.63
Delta = 89°52'20.97" Lt.
POC Balls Ford Rd., Sta. 125+83.36
5C POT Commercial Entr., Sta. 10+00.00
Delta = 88°49'58.02" Rt.
POI Notes Dr., Sta. 11+09.43
5D POT Commercial Entrance, Sta. 10+00.00
Delta = 90°00'00.00" Rt.

40 Free Flow Rt. I Bl.
Curve FREEFLOW1_I
PI = 11+32.29
DELTA = 90° 07' 39.03" (LT)
D = 43° 24' 21"
T = 132.29'
L = 207.64'
R = 132.00'
PC = 10+00.00
PT = 12+07.64
E = 2.0% (TC-5.11 ULS)
V = 25 mph

ALERT:
SITE PLAN PROPOSED FOR THIS AREA.CHECK FOR THE SITE PLAN CONSTRUCTION AT EACH STAGE OF PROJECT DEVELOPMENT AND ORDER ADDITIONAL SURVEY WHEN CONSTRUCTED.STATUS OF ANY PROFFERED R/W SHOULD BE CHECKED AT R/W STAGE



REFERENCES (PROFILES, DETAIL & DRAINAGE DESCRIPTION SHEETS, ETC.)

Survey Control Data Sheet	1F and 1F(1)
Construction Geometrics	1G - 1G(2)
Erosion Controls Ph1 & Ph2	1Q(5) and 1R(5)
Typical Sections	2A - 2B
Drainage Descriptions	2K - 2K(1)
Profile Route 621	5A
Profile Entr. and Conn.	5B

SCALE 0 25' 50'

VDOT PROJECT NO.	SHEET NO.
0621-076-265	5

ADDITIONAL EASEMENTS FOR UTILITY RELOCATIONS MAY BE REQUIRED BEYOND THE PROPOSED RIGHT-OF-WAY SHOWN ON THESE PLANS

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P.H. PLANS

Rinker Design Associates, P.C.
Civil Engineering - Surveying - Land Planning
Transportation - Environmental
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8180 Dakota Drive, Suite 100, Gainesville, VA 20155, Phone: (703) 792-7193, Fax: (703) 792-7197
8180 Dakota Drive, Suite 100, Gainesville, VA 20155, Phone: (703) 792-7193, Fax: (703) 792-7197
8180 Dakota Drive, Suite 100, Gainesville, VA 20155, Phone: (703) 792-7193, Fax: (703) 792-7197
8180 Dakota Drive, Suite 100, Gainesville, VA 20155, Phone: (703) 792-7193, Fax: (703) 792-7197

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Transportation - Environmental
Right of Way Services
Office Locations
405 Tidewater Boulevard, Suite 1 Fredericksburg, VA 22407 Phone: (540) 373-3161 Fax: (540) 373-6471
4101 Dominion Boulevard, Suite 100 Glen Allen, VA 23060 Phone: (804) 673-1000 Fax: (804) 673-1004
5000 Dominion Boulevard, Suite 1 Chesapeake, VA 23320 Phone: (757) 523-0000 Fax: (757) 523-0001

PROJECT MANAGER_ PWCDOT: Khattab Shammout, P.E. (703) 792-7193
SURVEYED BY, DATE _ RDA: Ryan Dreelin LS (703) 334-9302: September 2018
DESIGN BY _RDA: Mark A. Gunn PE (703) 334-9288
SUBSURFACE UTILITY BY, DATE _Accumark (703) 334-9288: November 2018

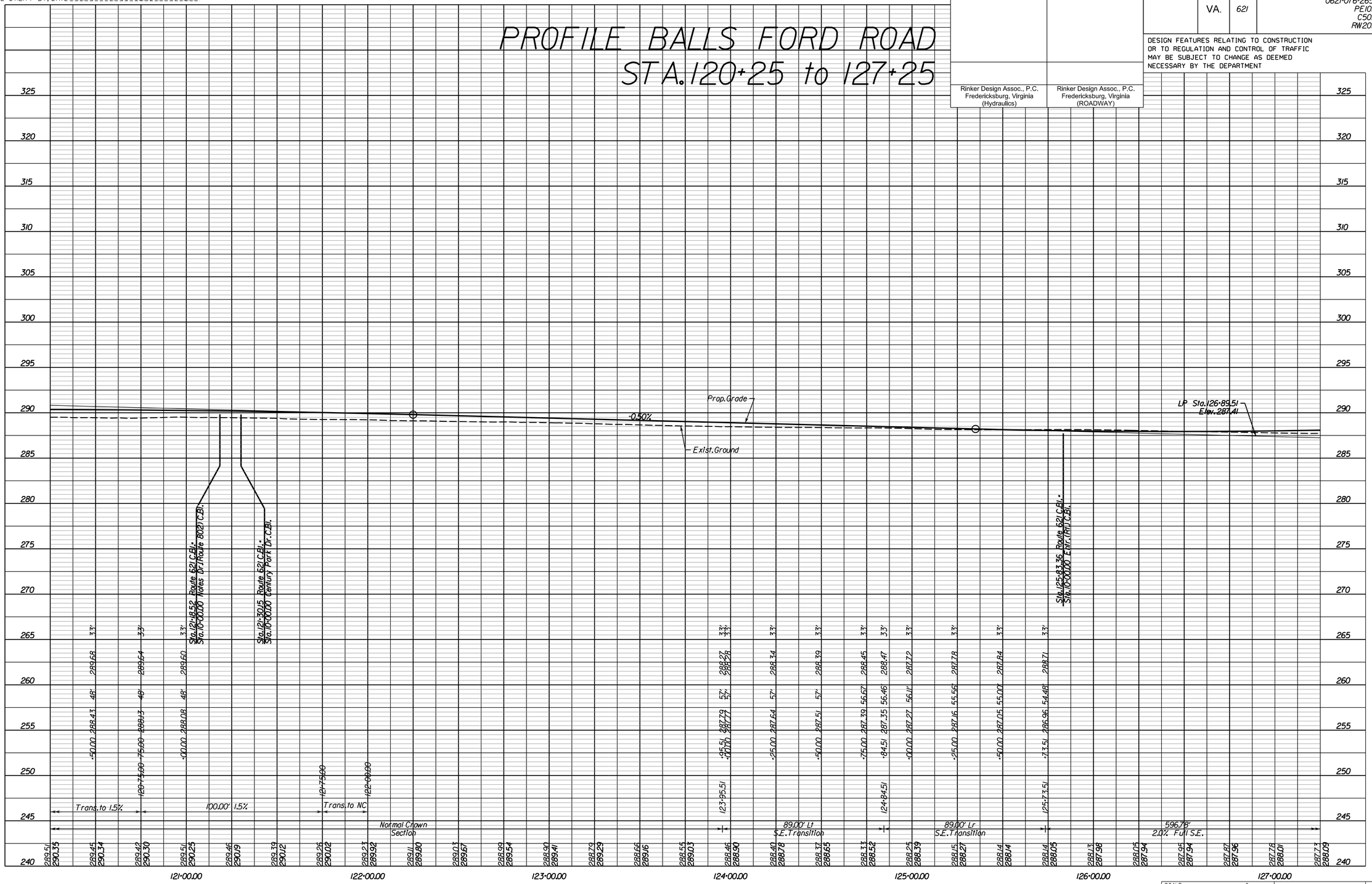
PROFILE BALLS FORD ROAD
STA. 120+25 to 127+25

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

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

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.	621	0621-076-265 PE101 C501 RW201	5A

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



SCALE HORIZ: 1"=25' 0 10' 25' VERT: 1"=5' 0 1' 2'

VDOT PROJECT NO. 0621-076-265

SHEET NO. 5A

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

P.H. PLANS

3/25/2019

PROJECT MANAGER _ PWCDOT: Khattab Shammout, P.E. (703) 792-7193 _____
SURVEYED BY, DATE _ RDA: Ryan Dreplin LS (703) 334-9302: September 2018
DESIGN BY _RDA: Mark A. Gunn PE (703) 334-9288 _____
SUBSURFACE UTILITY BY, DATE _Accumark (703) 334-9288: November 2018

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.	621	0621-076-265 PE101 C501 RW201	5B

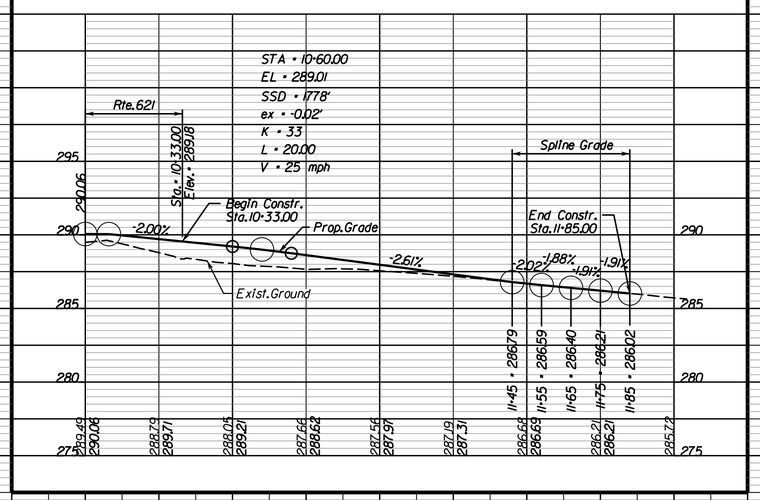
DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT

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

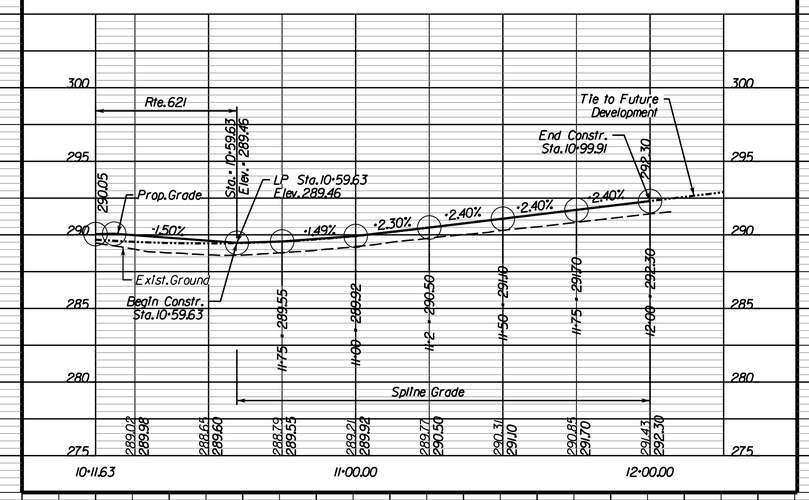
Rinker Design Assoc., P.C. Fredericksburg, Virginia (ROADWAY)

CONNECTION & ENTRANCE PROFILES

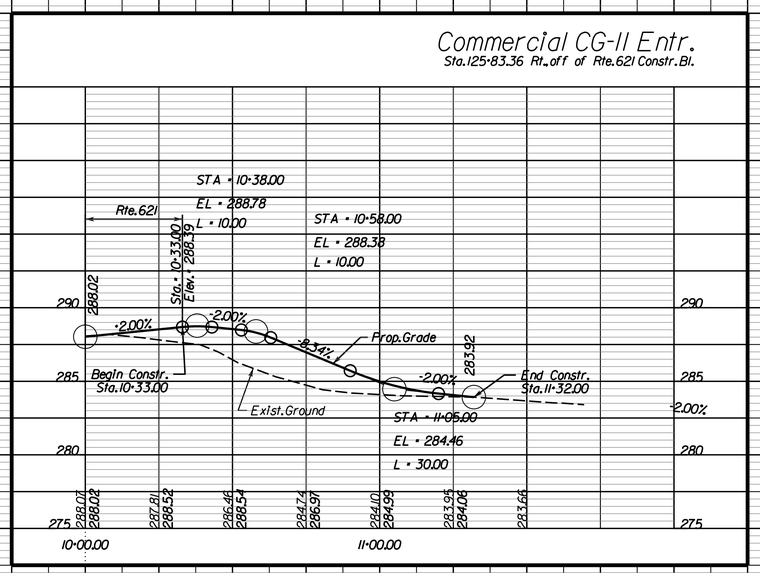
Notes Dr.
Sta.121+18.52 Rt. off of Rte.621 Constr.Bl.



Century Park Dr.
Sta.121+30.15 Lt. off of Rte.621 Constr.Bl.



Commercial CG-II Entr.
Sta.125+83.36 Rt. off of Rte.621 Constr.Bl.



Commercial Entr. CG-II
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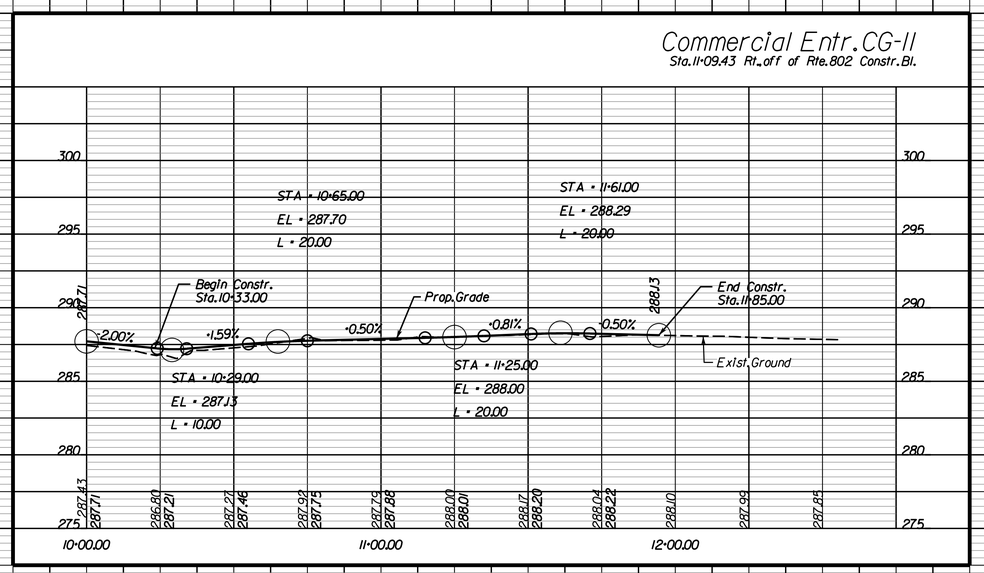

Office Locations

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

SCALE	VDOT PROJECT NO.	SHEET NO.
HORIZ: 1"=25' (0 10' 25') VERT: 1"=5' (0 1 2)	0621-076-265	5B

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P.H. PLANS

3/25/2019

PROJECT MANAGER _ PWCDOT; Khattab Shammout, P.E. (703) 792-7193
SURVEYED BY, DATE _ RDA; Ryan Dreelin LS (703) 334-9302; September 2018
DESIGN BY _RDA; Mark A. Gunn PE (703) 334-9288
SUBSURFACE UTILITY BY, DATE _Accumark (703) 334-9288; November 2018

Rinker Design Associates, P.C.
Civil Engineering - Surveying - Land Planning
Transportation - Environmental
Right of Way Services
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401 Hartman Boulevard
Suite 100
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Fax: (540) 373-4301
401 Hartman Boulevard
Suite 100
Glen Allen, VA 23060
Tel: (804) 346-4300
Fax: (804) 346-4301
5000 Dominion Boulevard
Suite 100
Manassas, VA 20109
Tel: (703) 335-9300
Fax: (540) 373-4301
www.RDAinc.com

CONNECTION & ENTRANCE PROFILES

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

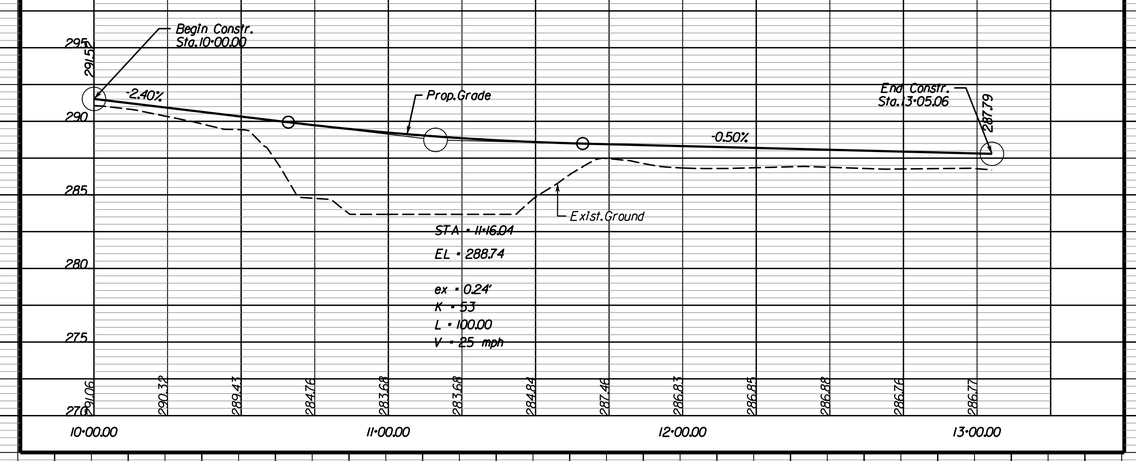
Rinker Design Assoc., P.C.
Fredericksburg, Virginia
(ROADWAY)

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.	621	0621-076-265 PE101 C501 RW201	5C

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

Free Flow Right at Century Park Dr.

Sta.124+00.00 Lt.off of Rte.621 Constr.Bl.



SCALE HORIZ: 1"=25' 0 10' 25' VERT: 1"=5' 0 1' 2'

VDOT PROJECT NO. 0621-076-265

SHEET NO. 5C

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

P.H. PLANS

3/25/2019

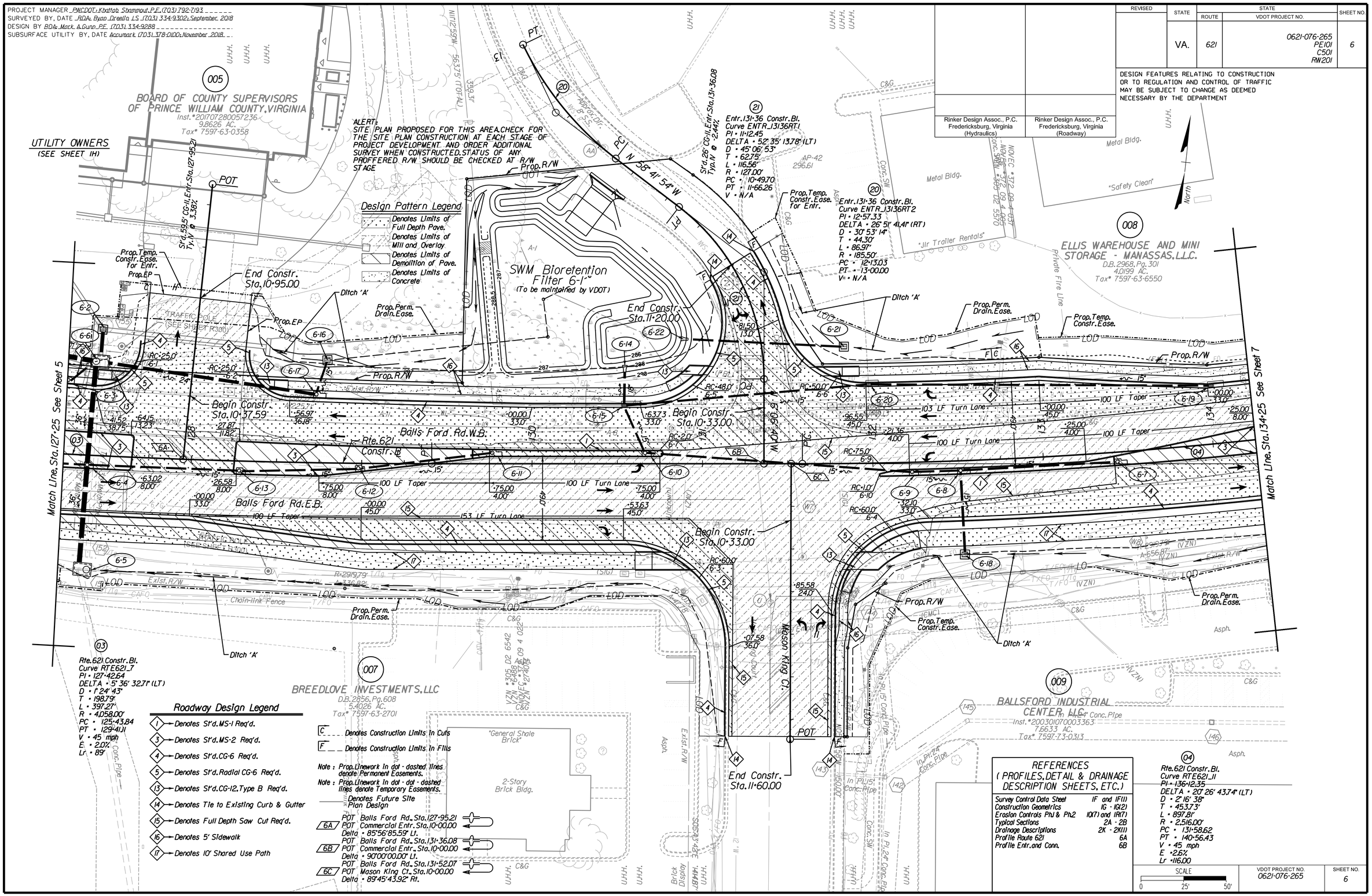
PROJECT MANAGER PWCDOT: Khattab Shammout, P.E. (703) 792-7193
SURVEYED BY, DATE RDA: Ryan Dreella LS (703) 334-9302, September 2018
DESIGN BY RDA: Mark A. Gunn, P.E. (703) 334-9288
SUBSURFACE UTILITY BY, DATE Accumark (703) 378-0100, November 2018

REVISED	STATE	ROUTE	STATE VDOT PROJECT NO.	SHEET NO.
	VA.	621	0621-076-265 PE101 C501 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)



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P.H. PLANS

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Office Locations
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3/25/2019

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DESIGN BY _RDA: Mark A. Gunn PE (703) 334-9288 _____
SUBSURFACE UTILITY BY, DATE _Accumark (703) 334-9288: November 2018

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Fax: (804) 672-1826
5000 Dominion Boulevard
Suite 100
Manassas, VA 20109
Tel: (703) 330-7670
Fax: (540) 373-5446

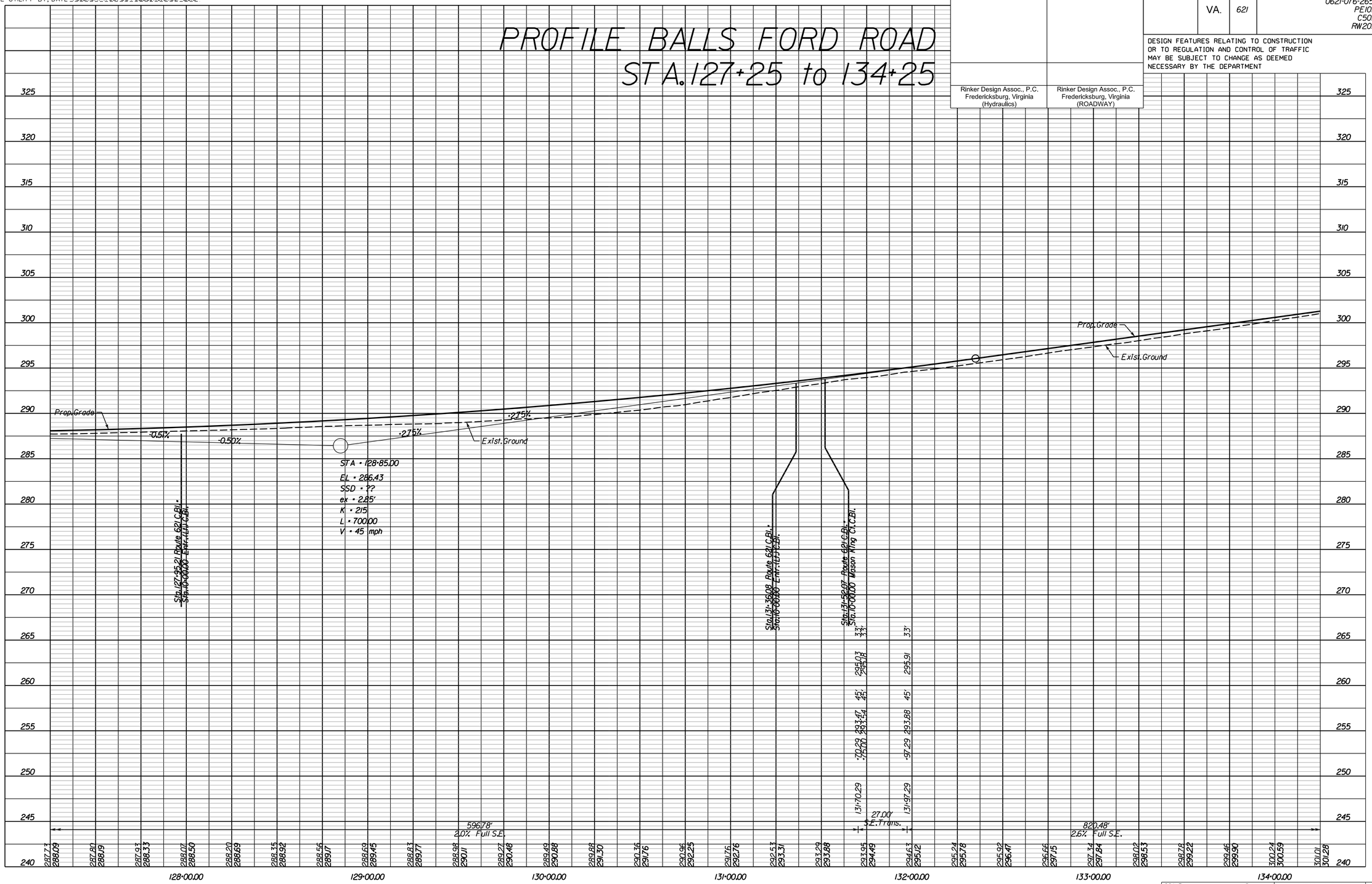
PROFILE BALLS FORD ROAD
STA. 127+25 to 134+25

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

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

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.	621	0621-076-265 PE101 C501 RW201	6A

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



SCALE	VDOT PROJECT NO.	SHEET NO.
HORIZ: 1"=25' (0 10' 25') VERT: 1"=5' (0 1 2)	0621-076-265	6A

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P.H. PLANS

PROJECT MANAGER _ PWCDOT; Khattab Shammout, P.E. (703) 792-7193
SURVEYED BY, DATE _ RDA; Ryan Dreplin LS (703) 334-9302; September 2018
DESIGN BY _RDA; Mark A. Gunn PE (703) 334-9288
SUBSURFACE UTILITY BY, DATE _Accumark (703) 334-9288; November 2018

Rinker Design Associates, P.C.
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Transportation - Environmental
Right of Way Services
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Fax: (540) 373-5469
603 Discovery Boulevard
Suite 100
Glen Allen, VA 23060
Tel: (804) 747-1758
Fax: (804) 747-5469
5000 Dominion Boulevard
Suite 100
Glen Allen, VA 23060
Tel: (804) 747-1758
Fax: (804) 747-5469
www.rinkerdesign.com

ENTRANCE PROFILES

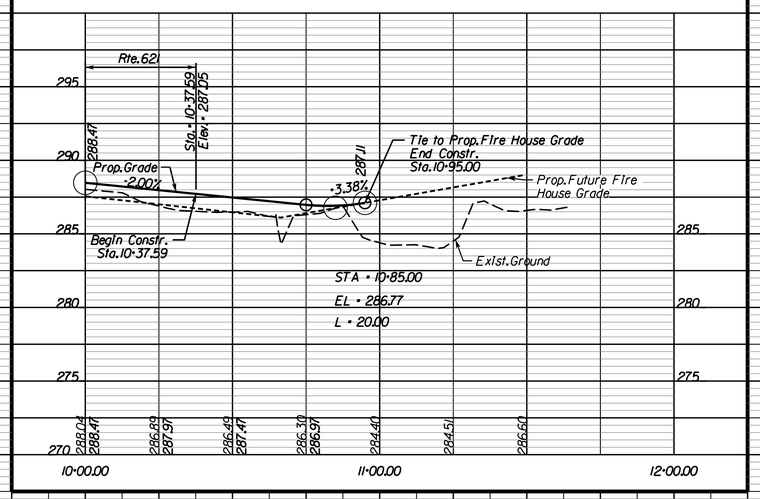
Rinker Design Assoc., P.C.
Fredericksburg, Virginia
(Hydraulics)

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

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.	621	0621-076-265 PE101 C501 RW201	6B

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-11 Entr.
Sta.127+95.21 Lt. off of Rte.621 Constr.Bl.



Commercial CG-11 Entr.
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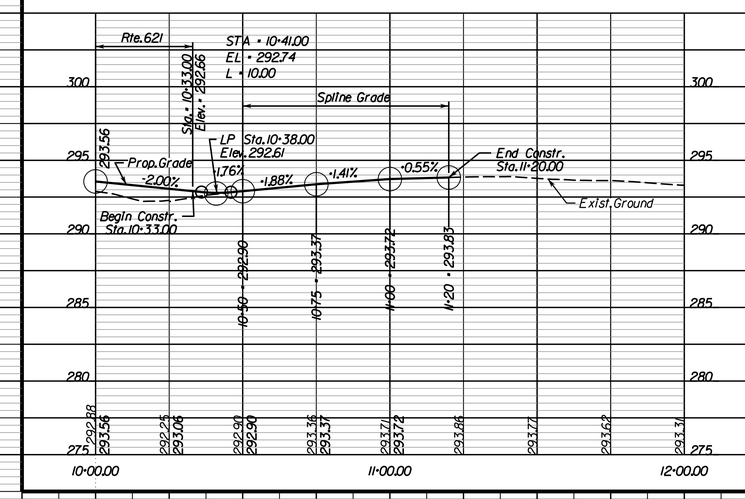
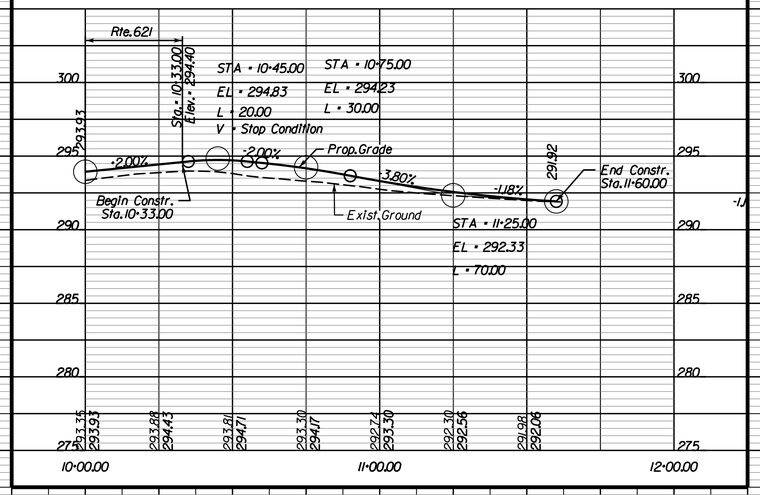


Mason King Ct.
Sta.131+52.07 Rt. off of Rte.621 Constr.Bl.



SCALE	VDOT PROJECT NO.	SHEET NO.
HORIZ: 1"=25' (0, 10', 25') VERT: 1"=5' (0, 1, 2)	0621-076-265	6B

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P.H. PLANS

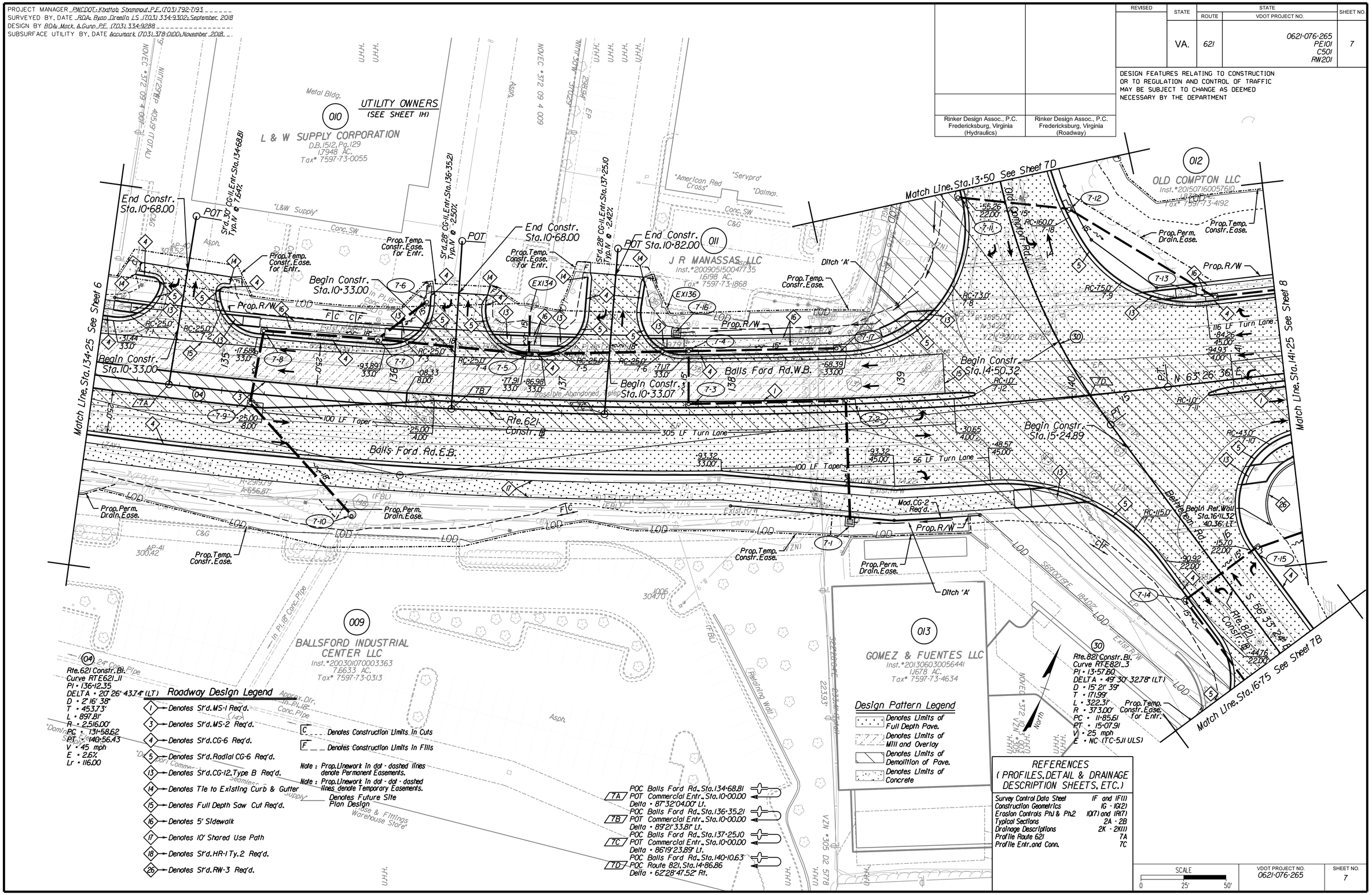
PROJECT MANAGER PWCDOT: Khattab Shammout, P.E. (703) 792-7193
SURVEYED BY, DATE RDA: Ryan Dreella LS (703) 334-9302, September, 2018
DESIGN BY RDA: Mark A. Gunn, P.E. (703) 334-9288
SUBSURFACE UTILITY BY, DATE Accumark (703) 378-0100: November 2018

REVISED	STATE	ROUTE	STATE VDOT PROJECT NO.	SHEET NO.
	VA.	621	0621-076-265 PE101 C501 RW201	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)

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



REFERENCES (PROFILES, DETAIL & DRAINAGE DESCRIPTION SHEETS, ETC.)

Survey Control Data Sheet	1F and 1F(1)
Construction Geometrics	1G - 1G(2)
Erosion Controls Ph1 & Ph2	1Q(7) and 1R(7)
Typical Sections	2A - 2B
Drainage Descriptions	2K - 2K(1)
Profile Route 621	7A
Profile Entr. and Conn.	7C

SCALE 0 25' 50'

VDOT PROJECT NO.	SHEET NO.
0621-076-265	7

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P.H. PLANS

Rinker Design Associates, P.C.
Civil Engineering · Surveying · Land Planning
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Reston, VA 20190 Phone: (703) 834-0100 Fax: (703) 834-0101
Richmond, VA 23230 Phone: (804) 285-8151 Fax: (804) 285-8157
Roanoke, VA 24018 Phone: (540) 772-4928 Fax: (540) 772-4930

3/25/2019

PROJECT MANAGER _ PWCDOT: Khattab Shammout, P.E. (703) 792-7193 _____
SURVEYED BY, DATE _ RDA: Ryan Dreplin LS (703) 334-9302: September 2018
DESIGN BY _RDA: Mark A. Gunn PE (703) 334-9288 _____
SUBSURFACE UTILITY BY, DATE _Accumark (703) 334-9288: November 2018

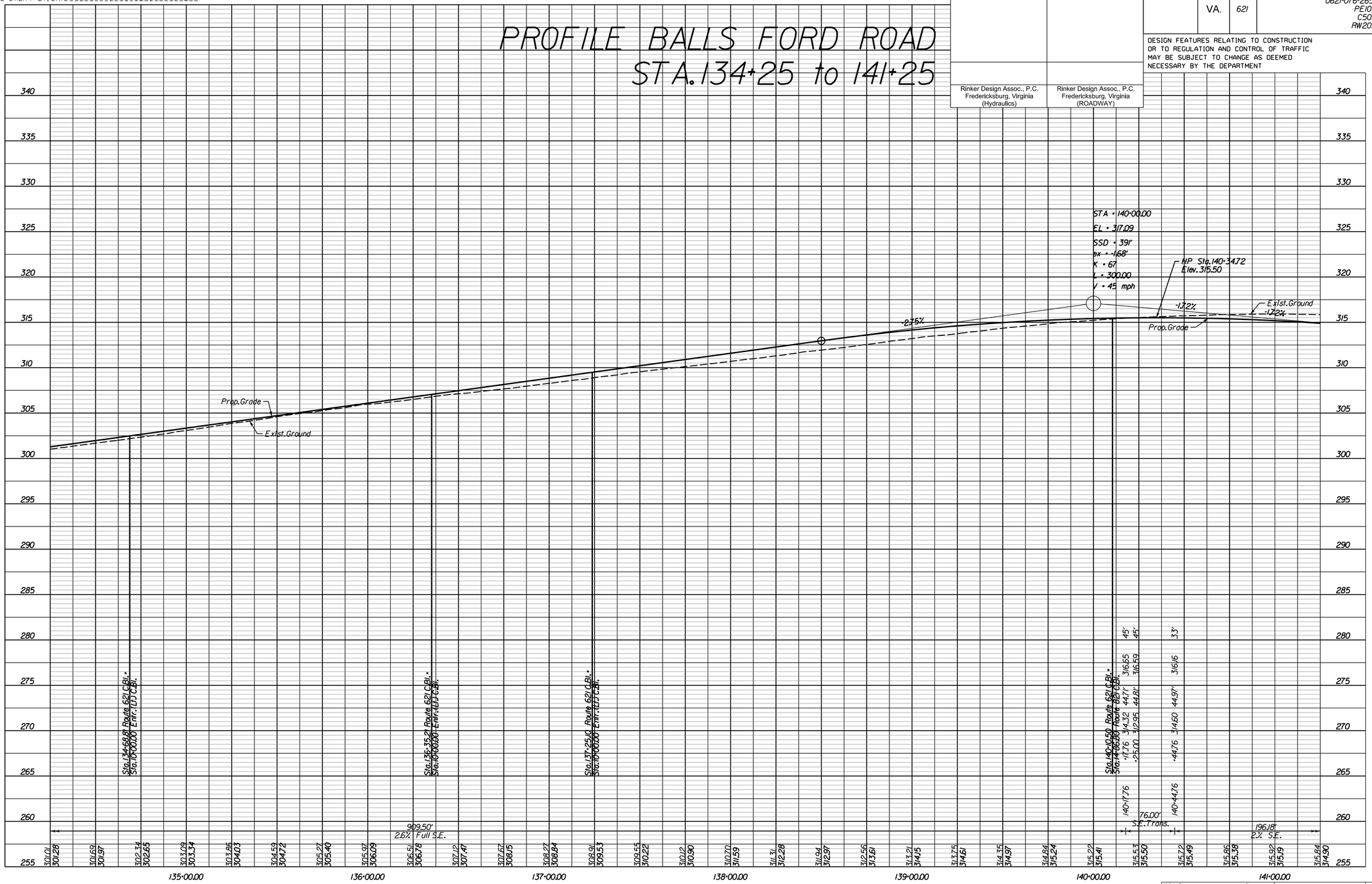
PROFILE BALLS FORD ROAD
STA. 134+25 to 141+25

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

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

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.	621	0621-076-265 PE101 C501 RW201	7A

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



SCALE	VDOT PROJECT NO.	SHEET NO.
HORIZ: 1"=25' (0 10' 25') VERT: 1"=5' (0 1' 2')	0621-076-265	7A

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

P.H. PLANS

Rinker Design Associates, P.C.
Civil Engineering - Surveying - Land Planning
Transportation - Environmental
Right of Way Services
Office Locations
405 Tidewater Boulevard, Suite 1 Fredericksburg, VA 22407 Phone: (540) 373-3127 Fax: (540) 373-4371
4101 Dominion Boulevard, Suite 100 Glen Allen, VA 23060 Phone: (804) 673-1500 Fax: (804) 673-1504
5000 Dominion Boulevard, Suite 1 Chesapeake, VA 23320 Phone: (757) 523-0000 Fax: (757) 523-0001

3/25/2019

PROJECT MANAGER PWCDOT: Khattab Shammout, P.E. (703) 792-7193
SURVEYED BY, DATE RDA: Ryan Dreella LS (703) 334-9302: September, 2018
DESIGN BY RDA: Mark A. Gunn, P.E. (703) 334-9288
SUBSURFACE UTILITY BY, DATE Accumark (703) 378-0100: November 2018

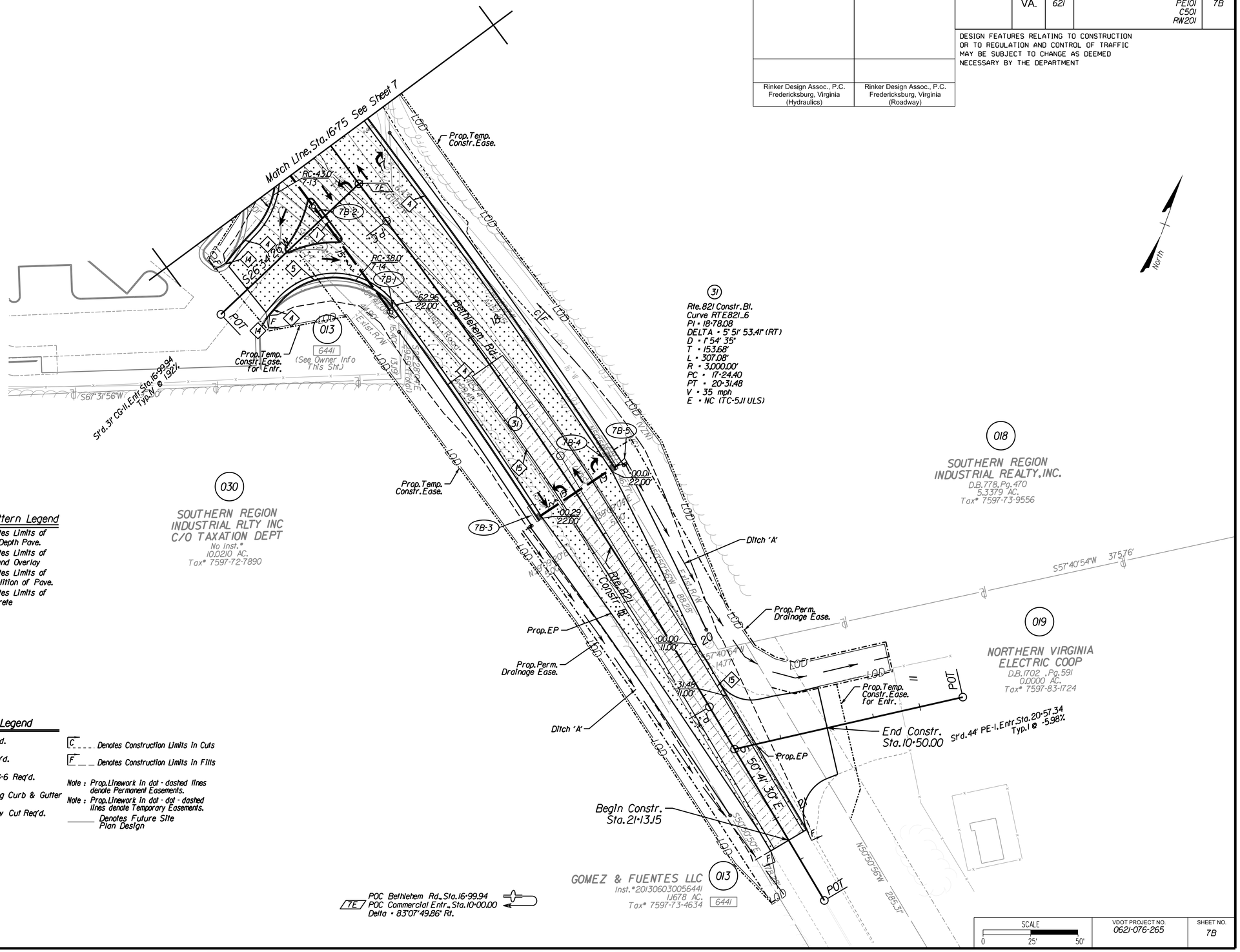
REVISED	STATE	STATE ROUTE	STATE VDOT PROJECT NO.	SHEET NO.
	VA.	621	0621-076-265 PE101 C501 RW201	7B

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 Engineering - Surveying - Land Planning Transportation - Environmental Right of Way Services
Office Locations: 8101 Sudley Road, Suite 200, Manassas, VA 20109, Phone: (703) 335-0100, Fax: (703) 335-0101; 8101 Discovery Boulevard, Suite 100, Plano, TX 75025, Phone: (972) 612-0101, Fax: (972) 612-0101; 4310 Prince William Parkway, Suite 300, Woodbridge, VA 22192, Phone: (703) 670-0100, Fax: (703) 670-0101

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

UTILITY OWNERS
(SEE SHEET 1H)



Design Pattern Legend
- Denotes Limits of Full Depth Pave.
- Denotes Limits of Mill and Overlay
- Denotes Limits of Demolition of Pave.
- Denotes Limits of Concrete

Roadway Design Legend
- 1 — Denotes Std. MS-1 Req'd.
- 4 — Denotes Std. CG-6 Req'd.
- 5 — Denotes Std. Radial CG-6 Req'd.
- 14 — Denotes Tie to Existing Curb & Gutter
- 15 — Denotes Full Depth Saw Cut Req'd.

C - - - - Denotes Construction Limits In Cuts
F _ _ Denotes Construction Limits In Fills

Note: Prop. Linework in dot - dashed lines denote Permanent Easements.
Note: Prop. Linework in dot - dot - dashed lines denote Temporary Easements.
_____ Denotes Future Site Plan Design

REFERENCES (PROFILES, DETAIL & DRAINAGE DESCRIPTION SHEETS, ETC.)

Survey Control Data Sheet	1F and 1F(1)
Construction Geometrics	1G - 1G(2)
Erosion Controls Ph1 & Ph2	1Q(7B) and 1R(7B)
Typical Sections	2A - 2B
Drainage Descriptions	2K - 2K(1)
Profile Route 821	7F

SCALE	VDOT PROJECT NO.	SHEET NO.
0 25' 50'	0621-076-265	7B

ADDITIONAL EASEMENTS FOR UTILITY RELOCATIONS MAY BE REQUIRED BEYOND THE PROPOSED RIGHT-OF-WAY SHOWN ON THESE PLANS

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

P.H. PLANS

3/25/2019

PROJECT MANAGER _ PWCDOT; Khattab Shammout, P.E. (703) 792-7193
SURVEYED BY, DATE _ RDA; Ryan Dreplin LS (703) 334-9302; September 2018
DESIGN BY _RDA; Mark A Gunn PE (703) 334-9288
SUBSURFACE UTILITY BY, DATE _Accumark (703) 334-9288; November 2018

Rinker Design Associates, P.C.
Civil Engineering - Surveying - Land Planning
Transportation - Environmental
Right of Way Services
Office Locations
401 Thomas Boulevard, Suite 100, Fredericksburg, VA 22407, Tel: (540) 373-3161, Fax: (540) 373-3164
4101 Dominion Boulevard, Suite 100, Glen Allen, VA 23060, Tel: (804) 747-1758, Fax: (804) 747-1760
5000 Warren Boulevard, Suite 100, Manassas, VA 20109, Tel: (703) 335-9400, Fax: (540) 373-3164
www.rda-rinker.com

ENTRANCE PROFILES

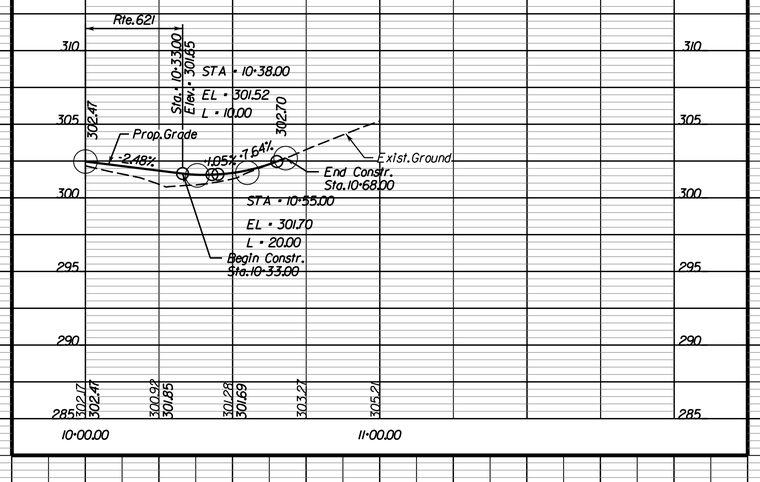
Rinker Design Assoc., P.C.
Fredericksburg, Virginia
(Hydraulics)

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

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.	621	0621-076-265 PE101 C501 RW201	7C

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-II Entr.
Sta.134+68.81 Lt. off of Rte.621 Constr.Bl.



Commercial CG-II Entr.
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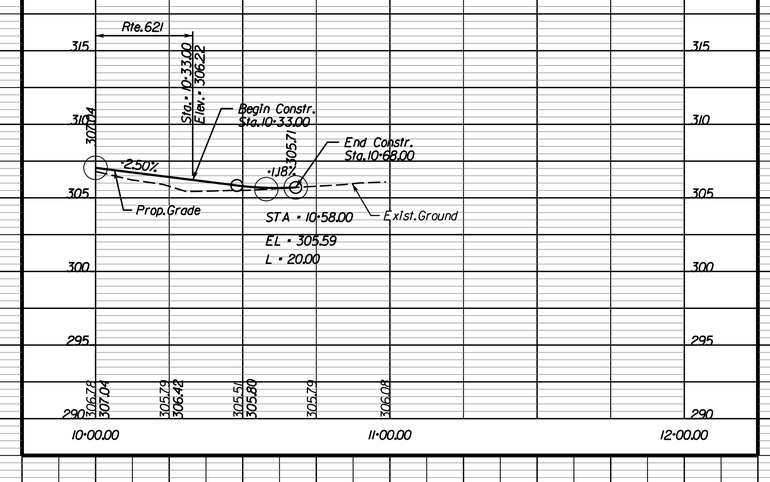
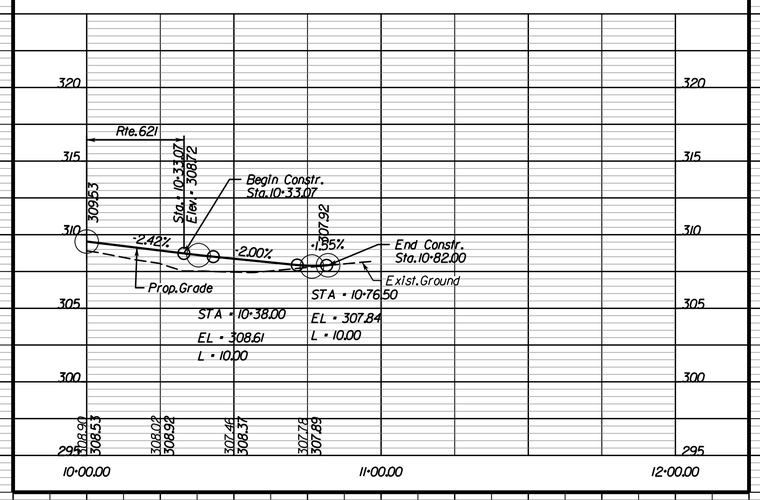
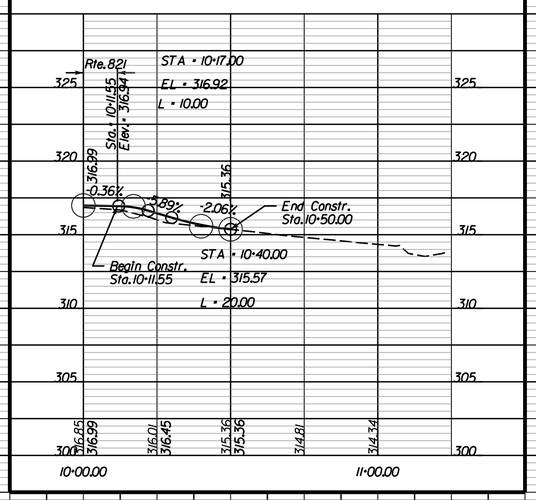


Commercial CG-II Entr.
Sta.137+25.10 Lt. off of Rte.621 Constr.Bl.



Private PE-I Entr.
Sta.20+57.34 Lt. off of Route 821 Constr.BL.



Commercial CG-II Entr.
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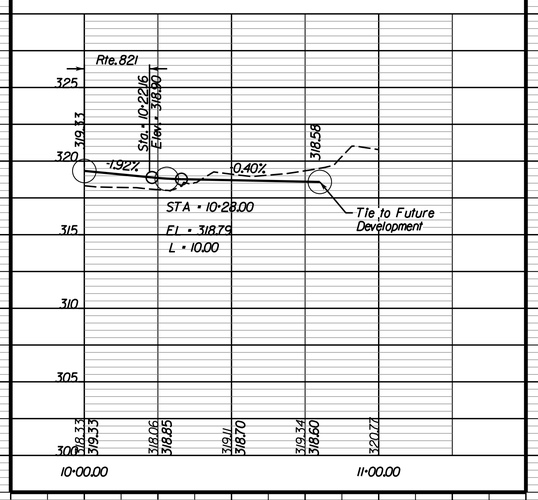


SCALE HORIZ: 1"=25' 0 10' 25' VERT: 1"=5' 0 1' 2'

VDOT PROJECT NO.	SHEET NO.
0621-076-265	7C

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

P.H. PLANS

3/25/2019

PROJECT MANAGER PWCDOT: Khattab Shammout, P.E. (703) 792-7193
SURVEYED BY, DATE RDA: Ryan Dreella LS (703) 334-9302: September 2018
DESIGN BY RDA: Mark A. Gunn, P.E. (703) 334-9288
SUBSURFACE UTILITY BY, DATE Accumark (703) 378-0100: November 2018

REVISED	STATE	STATE ROUTE	STATE VDOT PROJECT NO.	SHEET NO.
	VA.	621	0621-076-265 PE101 C501 RW201	7D

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)

Rinker Design Associates, P.C.
Civil Engineering - Surveying - Land Planning
Transportation - Environmental
Right of Way Services
Office Locations
Fredericksburg, VA 22407 Phone: (540) 373-8711 Fax: (540) 373-8717
Alexandria, VA 22304 Phone: (703) 823-2900 Fax: (703) 823-2908
Richmond, VA 23230 Phone: (804) 285-8151 Fax: (804) 285-8157
Phone: (703) 378-0100

UTILITY OWNERS
(SEE SHEET 1H)

Roadway Design Legend

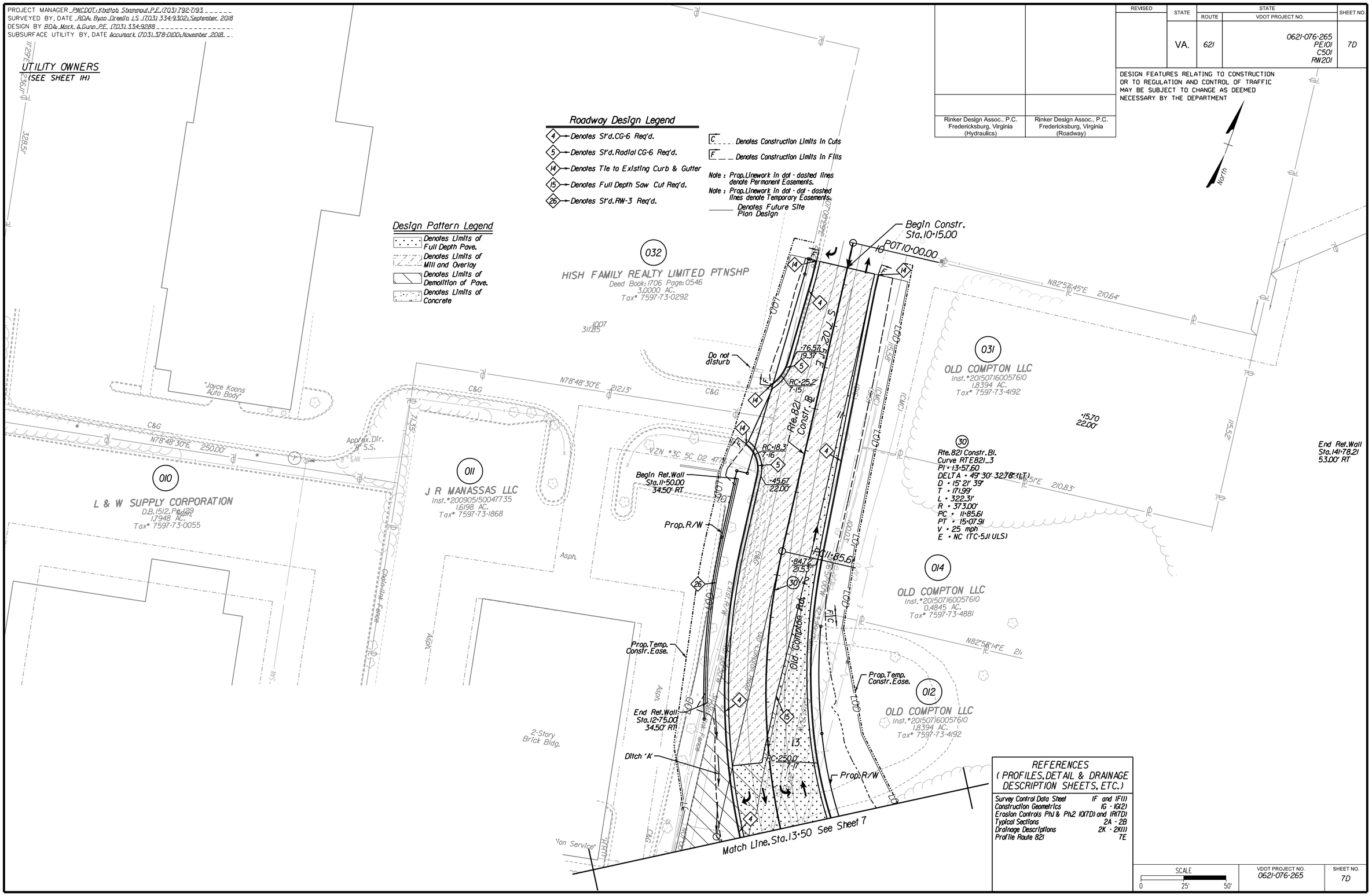
- 4 → Denotes St'd.CG-6 Req'd.
- 5 → Denotes St'd.Radial CG-6 Req'd.
- 14 → Denotes Tie to Existing Curb & Gutter
- 15 → Denotes Full Depth Saw Cut Req'd.
- 26 → Denotes St'd.RW-3 Req'd.

C ____ Denotes Construction Limits In Cuts
F __ __ Denotes Construction Limits In Fills

Note : Prop.Linework in dot - dashed lines denote Permanent Easements.
Note : Prop.Linework in dot - dot - dashed lines denote Temporary Easements.
_____ Denotes Future Site Plan Design

Design Pattern Legend

- Denotes Limits of Full Depth Pave.
- Denotes Limits of Mill and Overlay
- Denotes Limits of Demolition of Pave.
- Denotes Limits of Concrete



REFERENCES (PROFILES, DETAIL & DRAINAGE DESCRIPTION SHEETS, ETC.)

Survey Control Data Sheet	1F and 1F(1)
Construction Geometrics	1G - 1G(2)
Erosion Controls Ph1 & Ph2	1Q(7D) and 1R(7D)
Typical Sections	2A - 2B
Drainage Descriptions	2K - 2K(1)
Profile Route 821	7E

SCALE 0 25' 50'

VDOT PROJECT NO.	SHEET NO.
0621-076-265	7D

ADDITIONAL EASEMENTS FOR UTILITY RELOCATIONS MAY BE REQUIRED BEYOND THE PROPOSED RIGHT-OF-WAY SHOWN ON THESE PLANS

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P.H. PLANS

3/25/2019

PROJECT MANAGER _ PWCDOT: Khattab Shammout, P.E. (703) 792-7193 _____
SURVEYED BY, DATE _ RDA: Ryan Dreelin LS (703) 334-9302: September 2018
DESIGN BY _RDA: Mark A. Gunn PE (703) 334-9288 _____
SUBSURFACE UTILITY BY, DATE _Accumark (703) 334-9288: November 2018

Rinker Design Associates, P.C.
Civil Engineering - Surveying - Land Planning
Transportation - Environmental
Right of Way Services
Office Locations
Main Office
4651 Daniels Parkway
Fort Myers, FL 33912
Tel: (239) 768-0500
Fax: (239) 768-0505
Sarasota Office
4000 Vineyard Boulevard
Suite 101
Sarasota, FL 34232
Tel: (941) 377-1962
Fax: (941) 377-1965
Gulf Coast Office
4651 Daniels Parkway
Fort Myers, FL 33912
Tel: (239) 768-0500
Fax: (239) 768-0505

PROJECT MANAGER _ PWCDOT: Khattab Shammout, P.E. (703) 792-7193 _____
SURVEYED BY, DATE _ RDA: Ryan Dreplin LS (703) 334-9302: September 2018
DESIGN BY _RDA: Mark A. Gunn PE (703) 334-9288 _____
SUBSURFACE UTILITY BY, DATE _Accumark (703) 334-9288: November 2018

BETHLEHEM RD/OLD COMPTON RD (RTE. 821) PROFILE Sta. 15+50 to 18+00

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

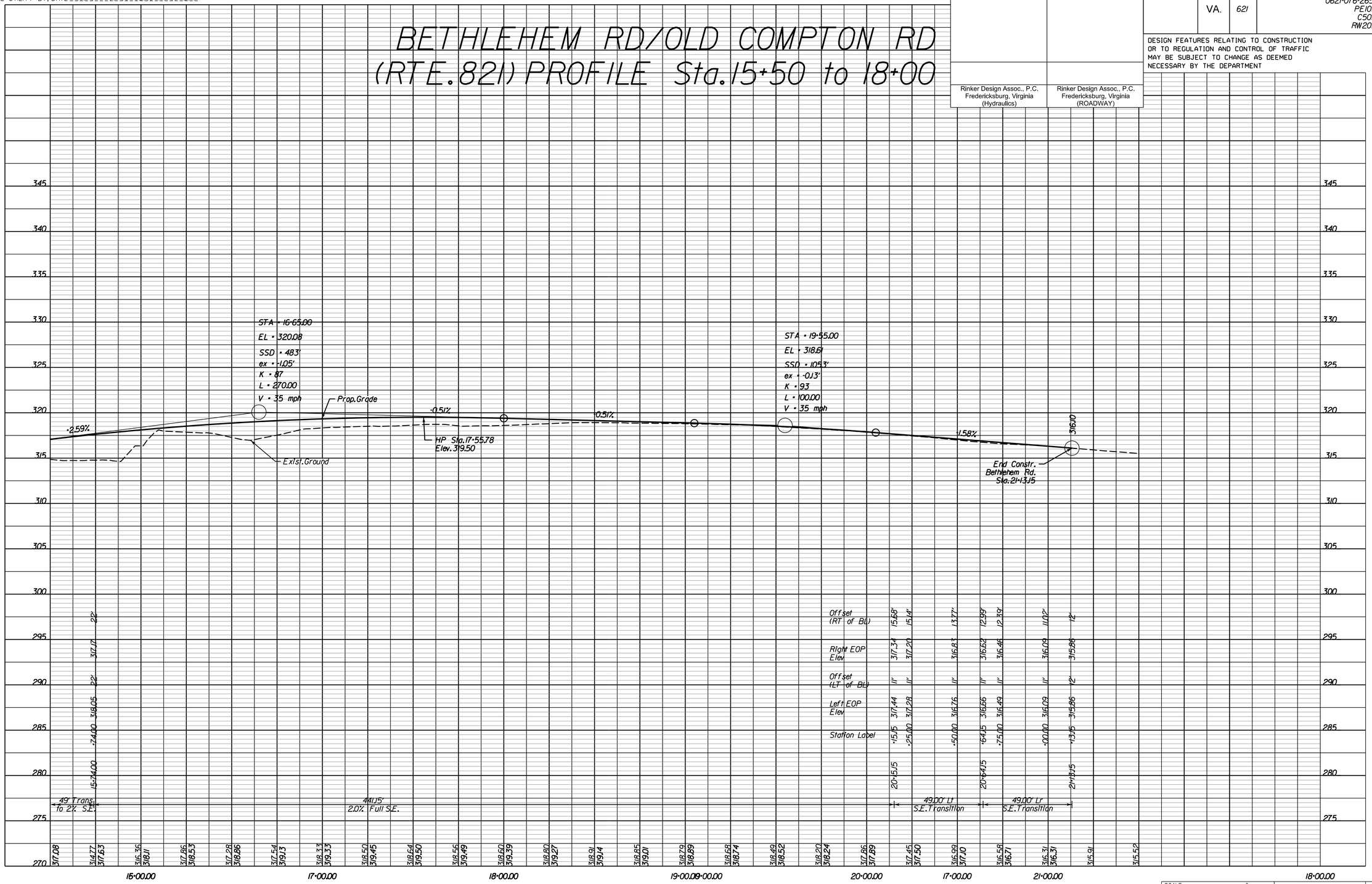
Office Locations
4101 Dominion Boulevard, Suite 100, Glen Allen, VA 23060 Phone: (804) 747-1758 Fax: (804) 747-5960
4101 Dominion Boulevard, Suite 100, Glen Allen, VA 23060 Phone: (804) 747-1758 Fax: (804) 747-5960
5104 Discovery Boulevard, Suite 100, Mechanicsville, VA 23111 Phone: (804) 559-0444 Fax: (804) 559-0445
401 Eagle Green Drive, Suite 100, Fredericksburg, VA 22407 Phone: (540) 373-9000 Fax: (540) 373-9001

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

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

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.	621	0621-076-265 PE101 C501 RW201	7F

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



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

VDOT PROJECT NO. 0621-076-265

SHEET NO. 7F

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

P.H. PLANS

3/25/2019

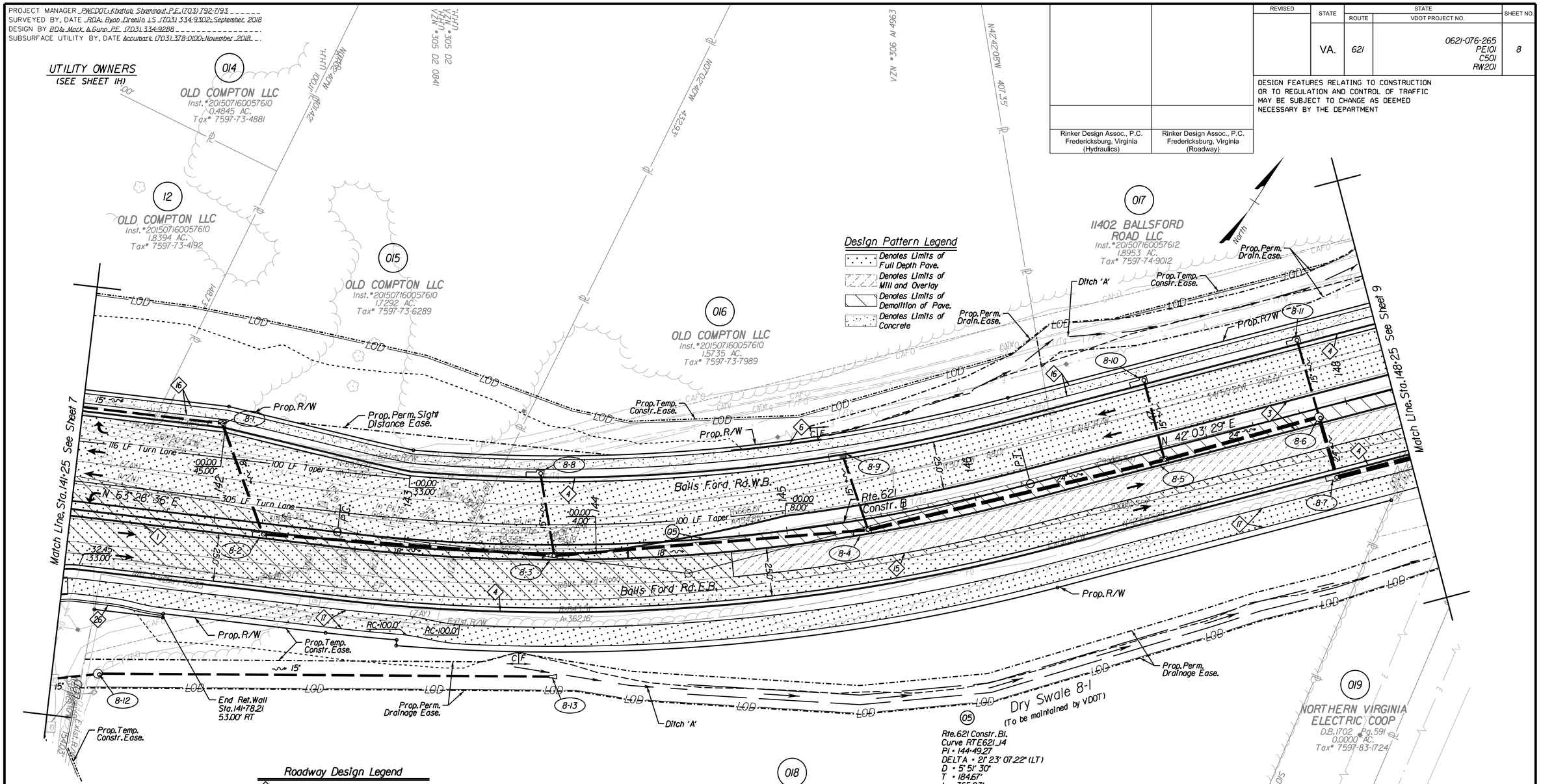
PROJECT MANAGER PWCDOT: Khattab Shammout, P.E. (703) 792-7193
SURVEYED BY, DATE RDA: Ryan Dreella LS (703) 334-9302: September, 2018
DESIGN BY RDA: Mark A. Gunn, P.E. (703) 334-9288
SUBSURFACE UTILITY BY, DATE Accumark (703) 378-0100: November 2018

REVISED	STATE	ROUTE	STATE VDOT PROJECT NO.	SHEET NO.
	VA.	621	0621-076-265 PE101 C501 RW201	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 Assoc., P.C. Fredericksburg, Virginia (Roadway)



Roadway Design Legend

- 1 — Denotes Std. MS-1 Req'd.
- 3 — Denotes Std. MS-2 Req'd.
- 4 — Denotes Std. CG-6 Req'd.
- 6 — Denotes Std. CG-2 Req'd.
- 15 — Denotes Full Depth Saw Cut Req'd.
- 16 — Denotes 5' Sidewalk
- 17 — Denotes 10' Shared Use Path
- 18 — Denotes Std. HR-1 Ty. 2 Req'd.
- 26 — Denotes Std. RW-3 Req'd.
- C — Denotes Construction Limits In Cuts
- F — Denotes Construction Limits In Fills

Note: Prop. Linework in dot - dashed lines denote Permanent Easements.

Note: Prop. Linework in dot - dot - dashed lines denote Temporary Easements.

Denotes Future Site Plan Design

REFERENCES (PROFILES, DETAIL & DRAINAGE DESCRIPTION SHEETS, ETC.)

Survey Control Data Sheet	1F and 1F(1)
Construction Geometrics	1G - 1G(2)
Erosion Controls Ph1 & Ph2	1Q(8) and 1R(8)
Typical Sections	2A - 2B
Drainage Descriptions	2K - 2K(1)
Profile Route 621	8A
Profile Entr. and Conn.	8B

SCALE 0 25' 50'

VDOT PROJECT NO.	SHEET NO.
0621-076-265	8

ADDITIONAL EASEMENTS FOR UTILITY RELOCATIONS MAY BE REQUIRED BEYOND THE PROPOSED RIGHT-OF-WAY SHOWN ON THESE PLANS

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

P.H. PLANS

Rinker Design Associates, P.C.
Civil Engineering - Surveying - Land Planning
Transportation - Environmental
Right of Way Services
Office Locations
Fredericksburg, VA 22407 Phone: (540) 373-8711 Fax: (540) 373-8717
Alexandria, VA 22314 Phone: (703) 739-0000 Fax: (703) 739-0001
Reston, VA 20190 Phone: (703) 834-0100 Fax: (703) 834-0101
Richmond, VA 23219 Phone: (804) 225-8000 Fax: (804) 225-8011

3/25/2019

PROJECT MANAGER _ PWCDOT: Khattab Shammout, P.E. (703) 792-7193 _____
SURVEYED BY, DATE _ RDA: Ryan Dreelin LS (703) 334-9302: September 2018
DESIGN BY _RDA: Mark A. Gunn PE (703) 334-9288 _____
SUBSURFACE UTILITY BY, DATE _Accumark (703) 334-9288: November 2018

Rinker Design Associates, P.C.
Civil Engineering - Surveying - Land Planning
Transportation - Environmental
Right of Way Services
Office Locations
4101 Dominion Boulevard
Suite 100
Glen Allen, VA 23060
Phone: (804) 673-1000
Fax: (804) 673-1004
5004 Discovery Boulevard
Suite 100
Mechanicsville, VA 23111
Phone: (804) 559-0300
Fax: (804) 559-0444
4101 Dominion Boulevard
Suite 100
Glen Allen, VA 23060
Phone: (804) 673-1000
Fax: (804) 673-1004
www.rinkerdesign.com

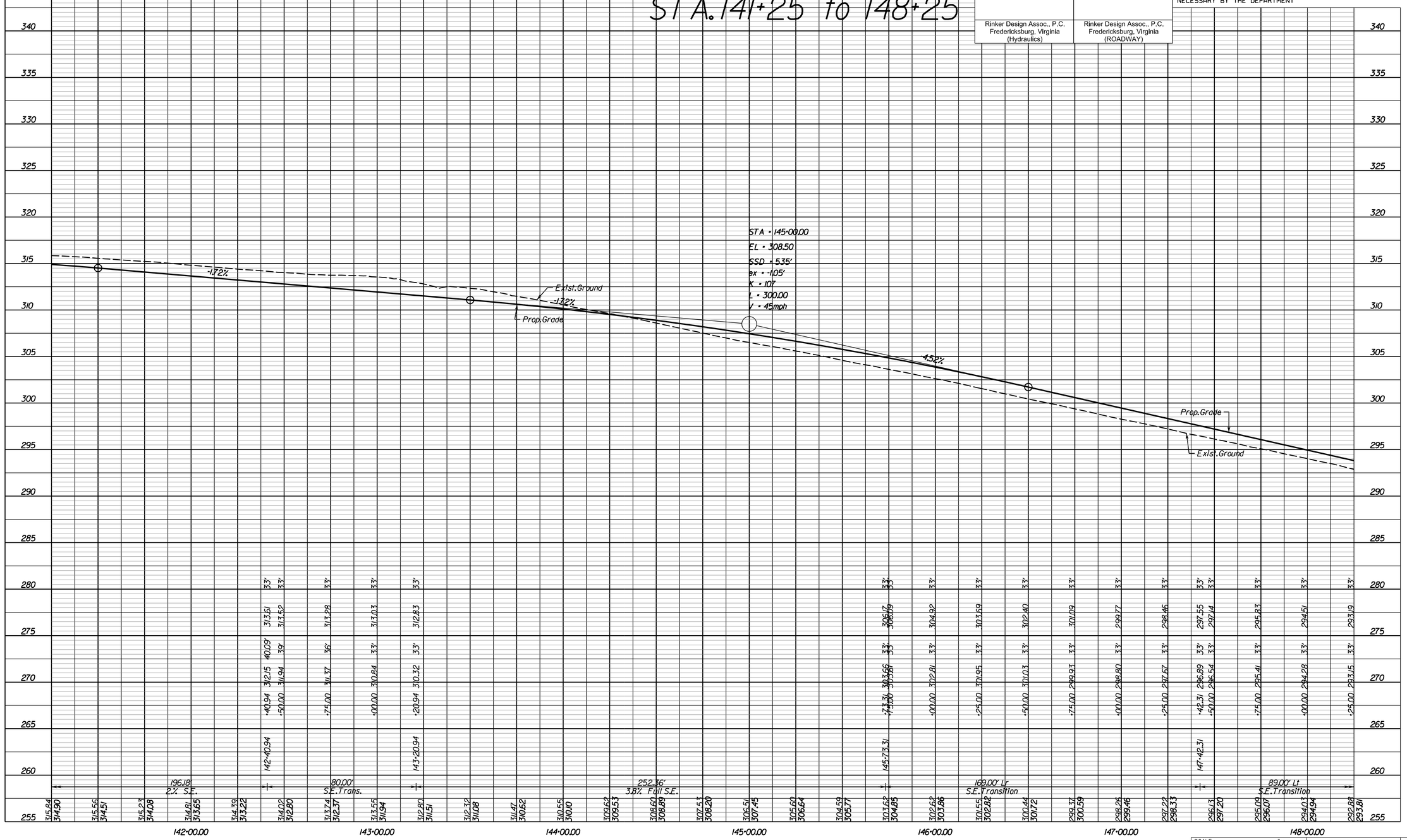
PROFILE BALLS FORD ROAD
STA. 141+25 to 148+25

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

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

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.	621	0621-076-265 PE101 C501 RW201	8A

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



SCALE HORIZ: 1"=25' 0 10' 25' VERT: 1"=5' 0 1' 2'

VDOT PROJECT NO. 0621-076-265

SHEET NO. 8A

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

P.H. PLANS

3/25/2019

PROJECT MANAGER PWCDOT: Khattab Shammout, P.E. (703) 792-7193
SURVEYED BY, DATE RDA: Ryan Dreella LS (703) 334-9302, September 2018
DESIGN BY RDA: Mark A. Gunn, P.E. (703) 334-9288
SUBSURFACE UTILITY BY, DATE Accumark (703) 378-0100, November 2018

Rinker Design Associates, P.C.
Civil Engineering - Surveying - Land Planning
Transportation - Environmental
Right of Way Services
Office Locations
8229 Boone Boulevard, Suite 750, Vienna, VA 22182, Phone: (703) 734-9300, Fax: (703) 734-9301
8229 Boone Boulevard, Suite 750, Vienna, VA 22182, Phone: (703) 734-9300, Fax: (703) 734-9301
8229 Boone Boulevard, Suite 750, Vienna, VA 22182, Phone: (703) 734-9300, Fax: (703) 734-9301
8229 Boone Boulevard, Suite 750, Vienna, VA 22182, Phone: (703) 734-9300, Fax: (703) 734-9301
www.rinkerdesign.com

Roadway Design Legend

- (1) Denotes Std. MS-1 Req'd.
- (3) Denotes Std. MS-2 Req'd.
- (4) Denotes Std. CG-6 Req'd.
- (15) Denotes Full Depth Saw Cut Req'd.
- (16) Denotes 5' Sidewalk
- (17) Denotes 10' Shared Use Path

C ___ Denotes Construction Limits in Cuts
F ___ Denotes Construction Limits in Fills

Note: Prop. Linework in dot - dashed lines denote Permanent Easements.
Note: Prop. Linework in dot - dot - dashed lines denote Temporary Easements.
___ Denotes Future Site Plan Design

Design Pattern Legend

- Denotes Limits of Full Depth Pave.
- Denotes Limits of Mill and Overlay
- Denotes Limits of Demolition of Pave.
- Denotes Limits of Concrete

REVISED	STATE	ROUTE	VDOT PROJECT NO.	SHEET NO.
	VA.	621	0621-076-265 PE101 C501 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)

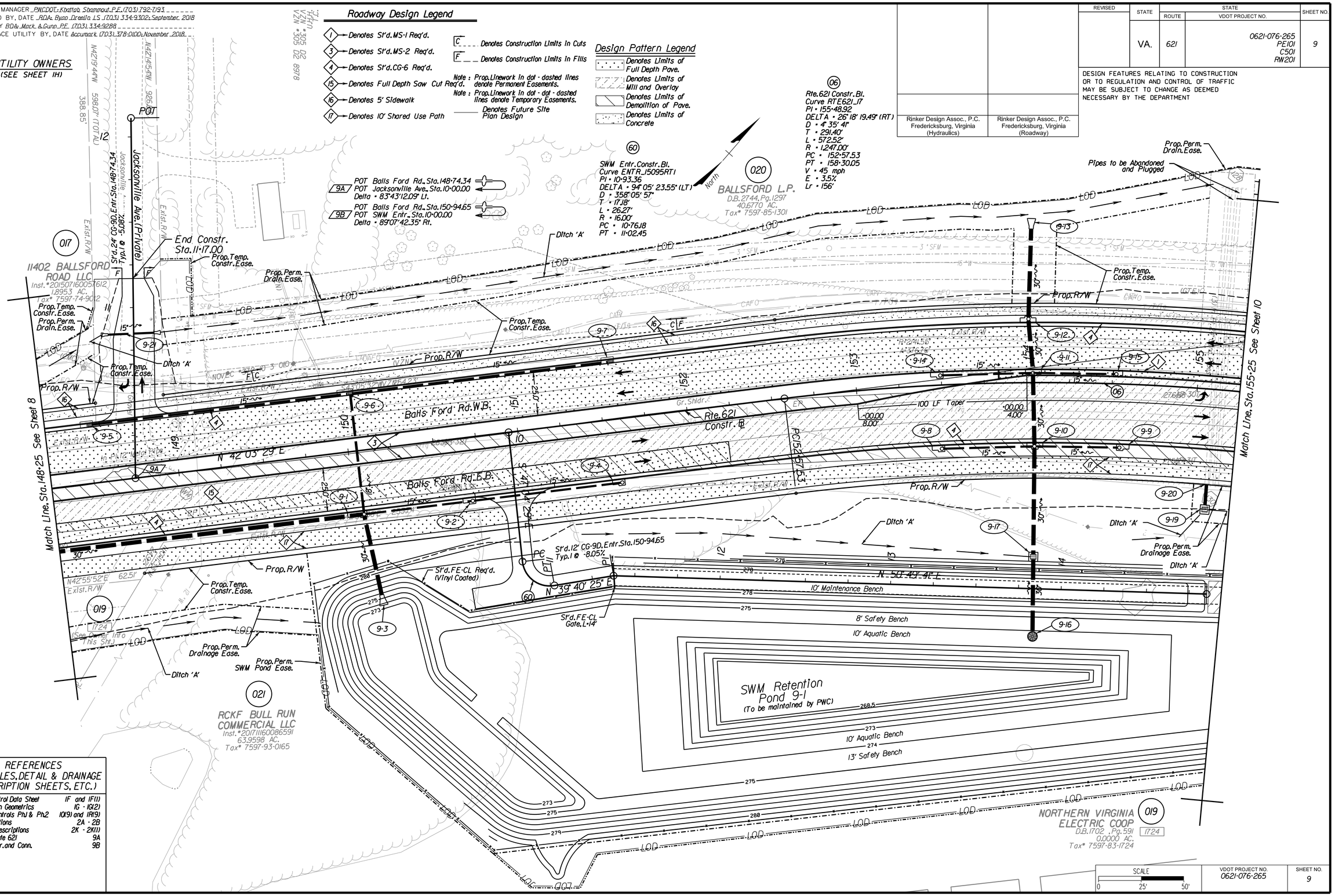
UTILITY OWNERS (SEE SHEET 1H)

(06) Rte. 621 Constr. Bl.
Curve RTE621_17
PI = 155+48.92
DELTA = 26° 18' 19.49" (RT)
D = 4° 35' 41"
T = 291.40'
L = 572.52'
R = 1,247.00'
PC = 152+57.53
PT = 158+30.05
V = 45 mph
E = 3.5%
Lr = 156'

(60) SWM Entr. Constr. Bl.
Curve ENTR_15095RT1
PI = 10+93.36
DELTA = 94° 05' 23.55" (LT)
D = 358° 05' 57"
T = 17.18'
L = 26.27'
R = 16.00'
PC = 10+76.18
PT = 11+02.45

9A POT Balls Ford Rd. Sta. 148+74.34
POT Jacksonville Ave. Sta. 10+00.00
Delta = 83° 43' 12.09" Lt.

9B POT Balls Ford Rd. Sta. 150+94.65
POT SWM Entr. Sta. 10+00.00
Delta = 89° 07' 42.35" Rt.



REFERENCES (PROFILES, DETAIL & DRAINAGE DESCRIPTION SHEETS, ETC.)	
Survey Control Data Sheet	1F and 1F(1)
Construction Geometrics	1G - 1G(2)
Erosion Controls Ph1 & Ph2	1Q(9) and 1R(9)
Typical Sections	2A - 2B
Drainage Descriptions	2K - 2K(1)
Profile Route 621	9A
Profile Entr. and Conn.	9B

SCALE 0 25' 50'

VDOT PROJECT NO.	SHEET NO.
0621-076-265	9

ADDITIONAL EASEMENTS FOR UTILITY RELOCATIONS MAY BE REQUIRED BEYOND THE PROPOSED RIGHT-OF-WAY SHOWN ON THESE PLANS

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P.H. PLANS

3/25/2019

PROJECT MANAGER _ PWCDOT: Khattab Shammout, P.E. (703) 792-7193 _____
SURVEYED BY, DATE _ RDA: Ryan Dreelin LS (703) 334-9302: September 2018
DESIGN BY _RDA: Mark A. Gunn PE (703) 334-9288 _____
SUBSURFACE UTILITY BY, DATE _Accumark (703) 334-9288: November 2018

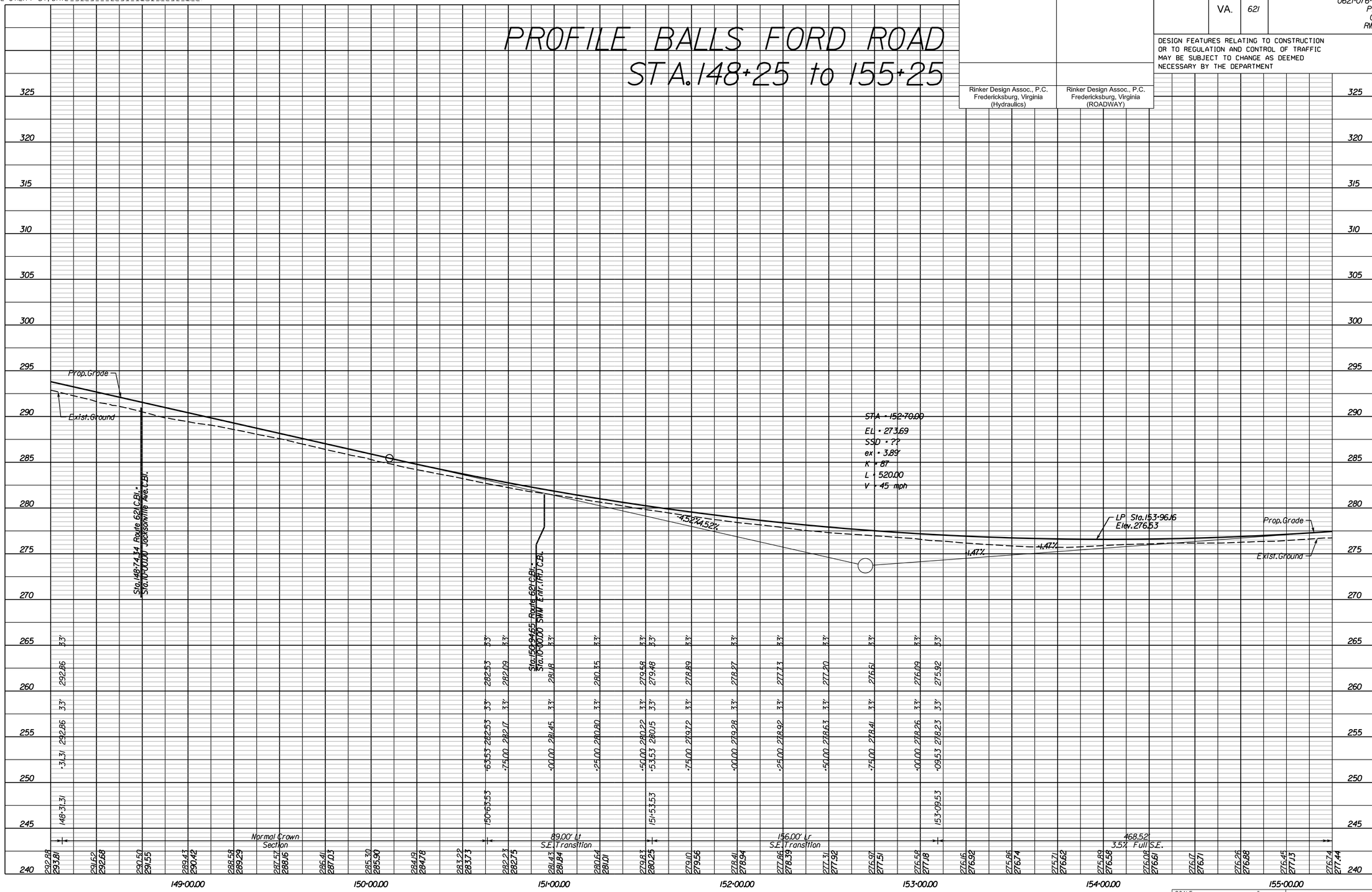
PROFILE BALLS FORD ROAD
STA. 148+25 to 155+25

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

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

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.	621	0621-076-265 PE101 C501 RW201	9A

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



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

VDOT PROJECT NO. 0621-076-265

SHEET NO. 9A

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

P.H. PLANS

Rinker Design Associates, P.C.
Civil Engineering - Surveying - Land Planning
Transportation - Environmental
Right of Way Services
Office Locations
405 Tidewater Boulevard, Suite 1 Fredericksburg, VA 22407 Phone: (540) 373-1400 Fax: (540) 373-0497
4101 Dominion Boulevard, Suite 100 Glen Allen, VA 23060 Phone: (804) 747-1758 Fax: (804) 673-0404
5000 Dominion Boulevard, Suite 1 Chesapeake, VA 23320 Phone: (757) 217-1444 Fax: (757) 217-1445

3/25/2019

PROJECT MANAGER _ PWCDOT: Khattab Shammout, P.E. (703) 792-7193
SURVEYED BY, DATE _ RDA: Ryan Dreplin LS (703) 334-9302; September 2018
DESIGN BY _RDA: Mark A. Gunn PE (703) 334-9288
SUBSURFACE UTILITY BY, DATE _Accumark (703) 334-9288; November 2018

Office Locations
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Transportation - Environmental
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Fax: (540) 373-1444
401 Harrison Boulevard
Suite 100
Fredericksburg, VA 22401
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Fax: (540) 373-1444
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Suite 100
Glen Allen, VA 23060
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Fax: (804) 262-8001
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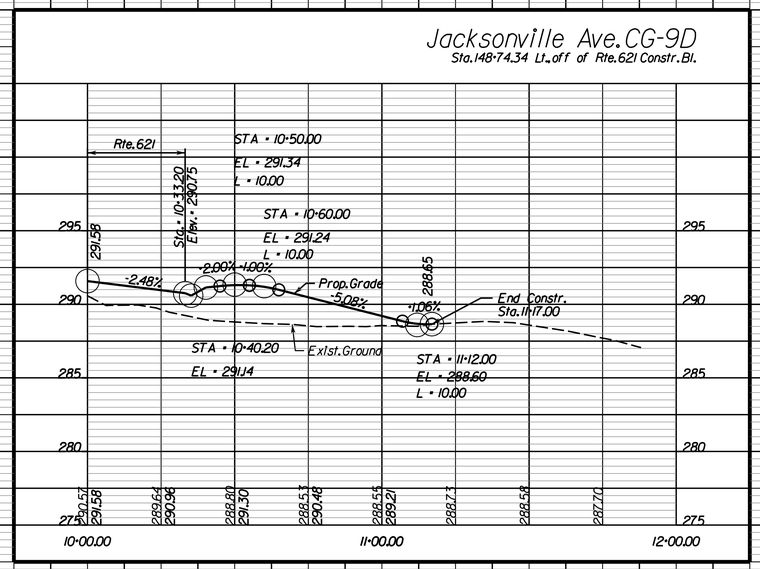
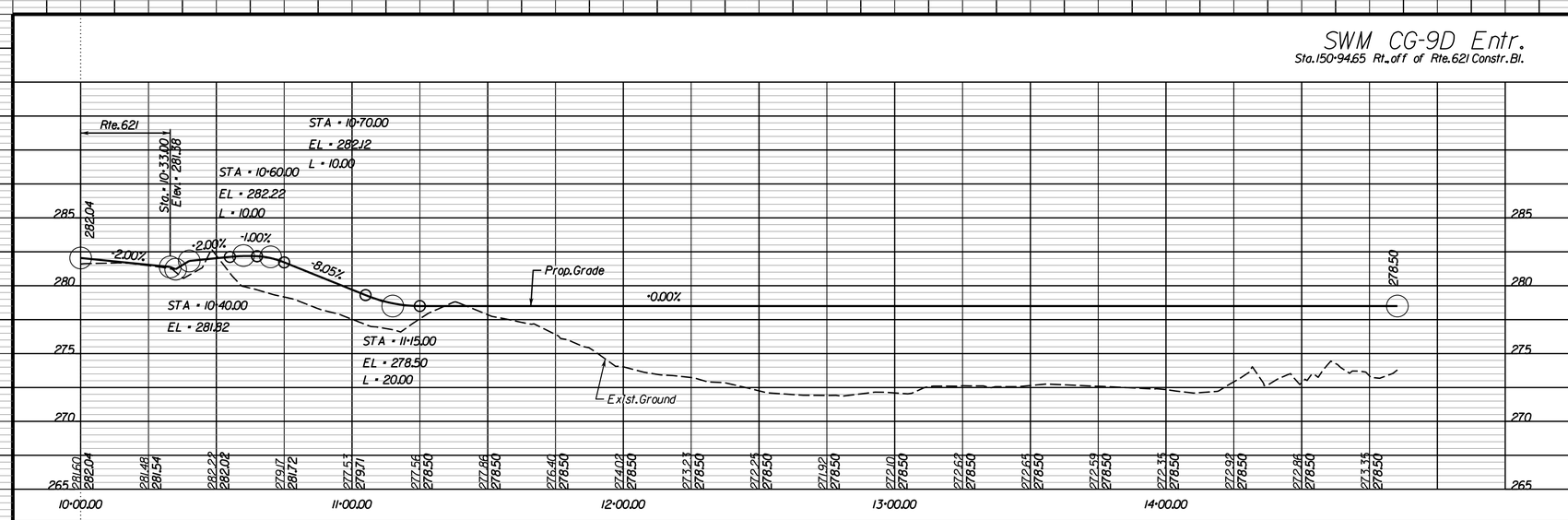
Tel: (804) 262-8000
Fax: (804) 262-8001
401 Harrison Boulevard
Suite 100
Fredericksburg, VA 22401
Tel: (540) 373-1400
Fax: (540) 373-1444

ENTRANCE PROFILES





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

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

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.	621	0621-076-265 PE101 C501 RW201	9B

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

SCALE HORIZ: 1"=25' 0 10' 25' VERT: 1"=5' 0 1 2

VDOT PROJECT NO. 0621-076-265

SHEET NO. 9B

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

P.H. PLANS

3/25/2019

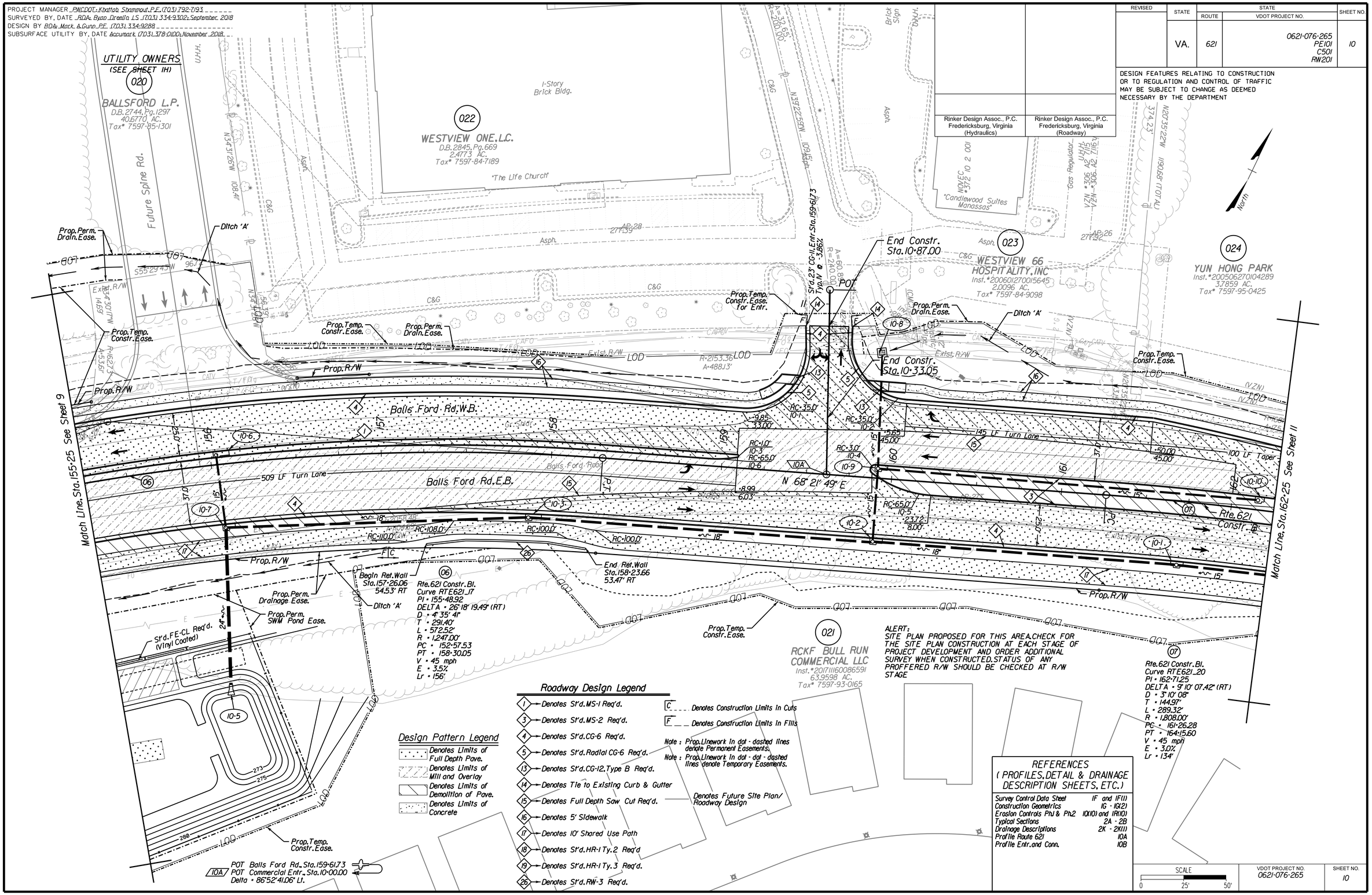
PROJECT MANAGER PWCDOT: Khattab Shammout, P.E. (703) 792-7193
SURVEYED BY, DATE RDA: Ryan Dreella LS (703) 334-9302, September, 2018
DESIGN BY RDA: Mark A. Gunn, P.E. (703) 334-9288
SUBSURFACE UTILITY BY, DATE Accumark (703) 378-0100, November 2018

Rinker Design Associates, P.C.
Civil Engineering - Surveying - Land Planning
Transportation - Environmental
Right of Way Services
Office Locations
Fredericksburg, VA 22407 Phone: (540) 373-1400 Fax: (540) 373-0177
4426 Discovery Boulevard Suite A-1 Phone: (703) 670-0100 Fax: (703) 670-0104
4426 Discovery Boulevard Suite A-1 Phone: (703) 670-0100 Fax: (703) 670-0104
4426 Discovery Boulevard Suite A-1 Phone: (703) 670-0100 Fax: (703) 670-0104

REVISED	STATE	ROUTE	STATE VDOT PROJECT NO.	SHEET NO.
	VA.	621	0621-076-265 PE101 C501 RW201	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)	Rinker Design Assoc., P.C. Fredericksburg, Virginia (Roadway)



ADDITIONAL EASEMENTS FOR UTILITY RELOCATIONS MAY BE REQUIRED BEYOND THE PROPOSED RIGHT-OF-WAY SHOWN ON THESE PLANS

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P.H. PLANS

3/25/2019

PROJECT MANAGER _ PWCDOT: Khattab Shammout, P.E. (703) 792-7193 _____
SURVEYED BY, DATE _ RDA: Ryan Dreelin LS (703) 334-9302: September 2018
DESIGN BY _RDA: Mark A. Gunn PE (703) 334-9288 _____
SUBSURFACE UTILITY BY, DATE _Accumark (703) 334-9288: November 2018

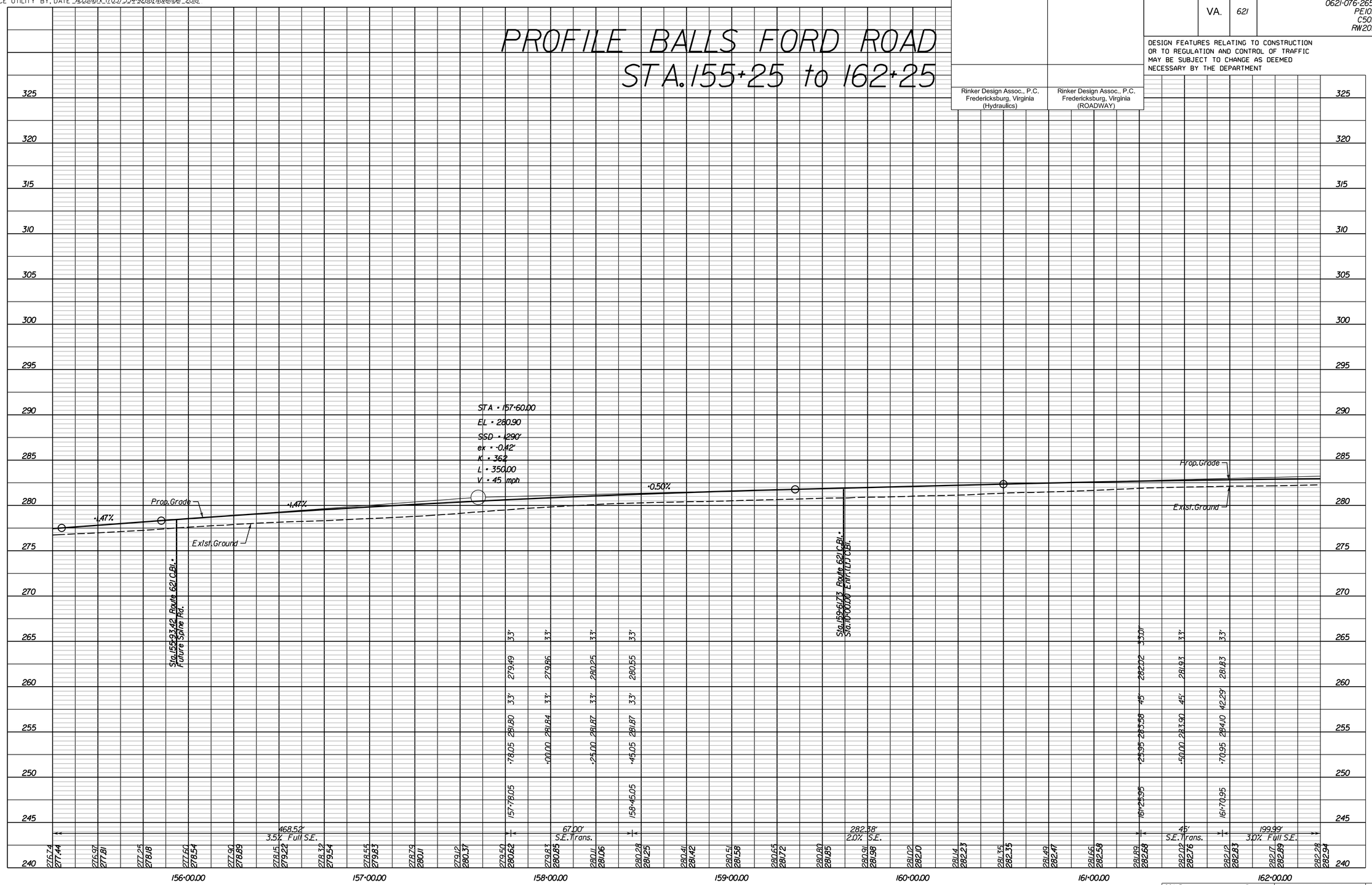
PROFILE BALLS FORD ROAD
STA. 155+25 to 162+25

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

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

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.	621	0621-076-265 PE101 C501 RW201	10A

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



SCALE	VDOT PROJECT NO.	SHEET NO.
HORIZ: 1"=25' (0, 10', 25') VERT: 1"=5' (0, 1, 2)	0621-076-265	10A

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

P.H. PLANS

Rinker Design Associates, P.C.
Civil Engineering - Surveying - Land Planning
Transportation - Environmental
Right of Way Services
Office Locations
4101 Dickerson Boulevard, Suite 210, Fredericksburg, VA 22407, Phone: (540) 373-1400, Fax: (540) 373-0371
4101 Dickerson Boulevard, Suite 210, Glen Allen, VA 23060, Phone: (804) 672-1400, Fax: (804) 672-0400
4101 Dickerson Boulevard, Suite 210, Manassas, VA 20109, Phone: (703) 335-1400, Fax: (540) 373-0371
401 Eagle Green Drive, Suite 1, Fredericksburg, VA 22407, Phone: (540) 373-1400, Fax: (540) 373-0371

3/25/2019

PROJECT MANAGER _ PWCDOT; Khattab Shammout, P.E. (703) 792-7193 _____
SURVEYED BY, DATE _ RDA; Ryan Dreelin LS (703) 334-9302; September 2018
DESIGN BY _RDA; Mark A Gunn PE (703) 334-9288 _____
SUBSURFACE UTILITY BY, DATE _Accumark (703) 334-9288; November 2018

Rinker Design Associates, P.C.
Office Locations
Main Office
4651 Dominion Boulevard
Suite 100
Glen Allen, VA 23060
Phone: (804) 217-5000
Fax: (804) 217-5001
Suite 100
Chesterfield, VA 23832
Phone: (804) 217-5000
Fax: (804) 217-5001
Suite 100
Fredericksburg, VA 22407
Phone: (540) 373-5000
Fax: (540) 373-5001
Civil Engineering - Surveying - Land Planning
Transportation - Environmental
Right of Way Services

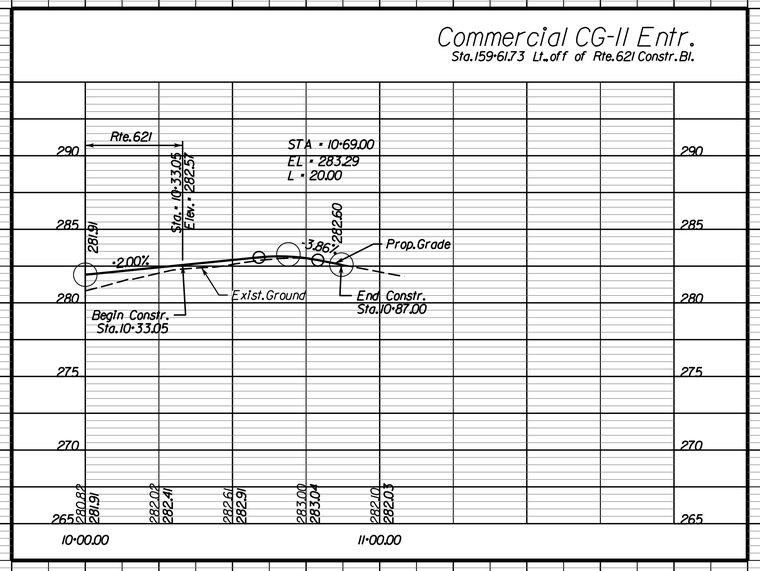
ENTRANCE PROFILES

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

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

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.	621	0621-076-265 PE101 C501 RW201	10B

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



SCALE HORIZ: 1"=25' 0 10' 25' VERT: 1"=5' 0 1 2

VDOT PROJECT NO.	SHEET NO.
0621-076-265	10B

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P.H. PLANS

3/25/2019

PROJECT MANAGER PWCDOT: Khattab Shammout, P.E. (703) 792-7193
SURVEYED BY, DATE RDA: Ryan Dreella LS (703) 334-9302: September, 2018
DESIGN BY RDA: Mark A. Gunn, P.E. (703) 334-9288
SUBSURFACE UTILITY BY, DATE Accumark (703) 378-0100: November 2018

REVISED	STATE	STATE ROUTE	VDOT PROJECT NO.	SHEET NO.
	VA.	621	0621-076-265 PE101 C501 RW201	11

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)

Rinker Design Associates, P.C.
Civil Engineering - Surveying - Land Planning
Transportation - Environmental
Right of Way Services
Office Locations
Fredericksburg, VA 22407 Phone: (540) 373-8711 Fax: (540) 373-8717
Phone: (703) 378-0100 Fax: (703) 378-0106
Phone: (757) 490-9282 Fax: (757) 490-9283

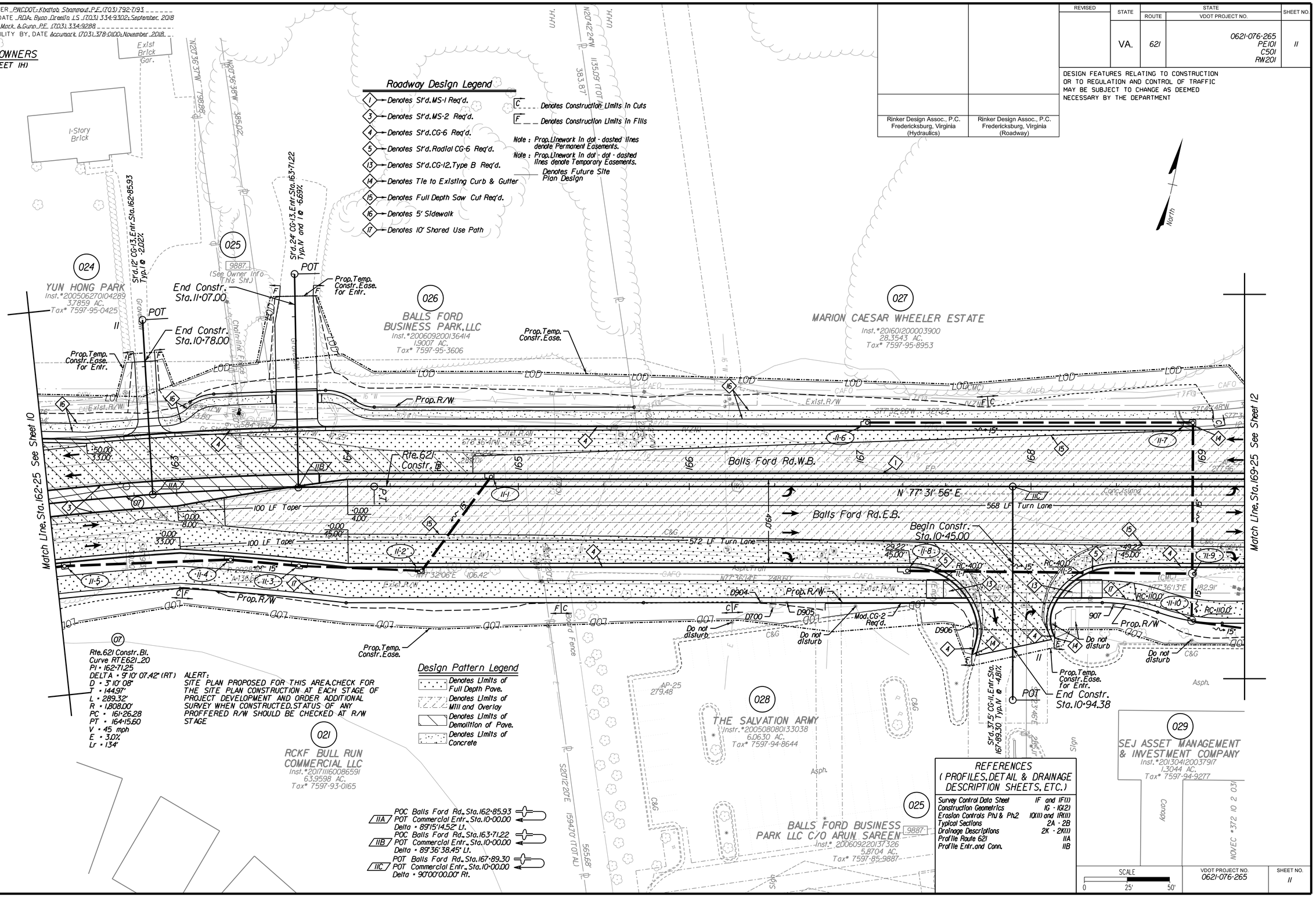
UTILITY OWNERS
(SEE SHEET 1H)

Roadway Design Legend

- 1 → Denotes St'd. MS-1 Req'd.
- 3 → Denotes St'd. MS-2 Req'd.
- 4 → Denotes St'd. CG-6 Req'd.
- 5 → Denotes St'd. Radial CG-6 Req'd.
- 13 → Denotes St'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

C ___ Denotes Construction Limits In Cuts
F __ Denotes Construction Limits In Fills

Note: Prop. Linework In dot - dashed lines denote Permanent Easements.
Note: Prop. Linework In dot - dot - dashed lines denote Temporary Easements.
Denotes Future Site Plan Design



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P.H. PLANS

3/25/2019

PROJECT MANAGER _ PWCDOT: Khattab Shammout, P.E. (703) 792-7193 _____
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DESIGN BY _RDA: Mark A. Gunn PE (703) 334-9288 _____
SUBSURFACE UTILITY BY, DATE _Accumark (703) 334-9288: November 2018

PROFILE BALLS FORD ROAD
STA. 162+25 to 169+25

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

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

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.	621	0621-076-265 PE101 C501 RW201	11A

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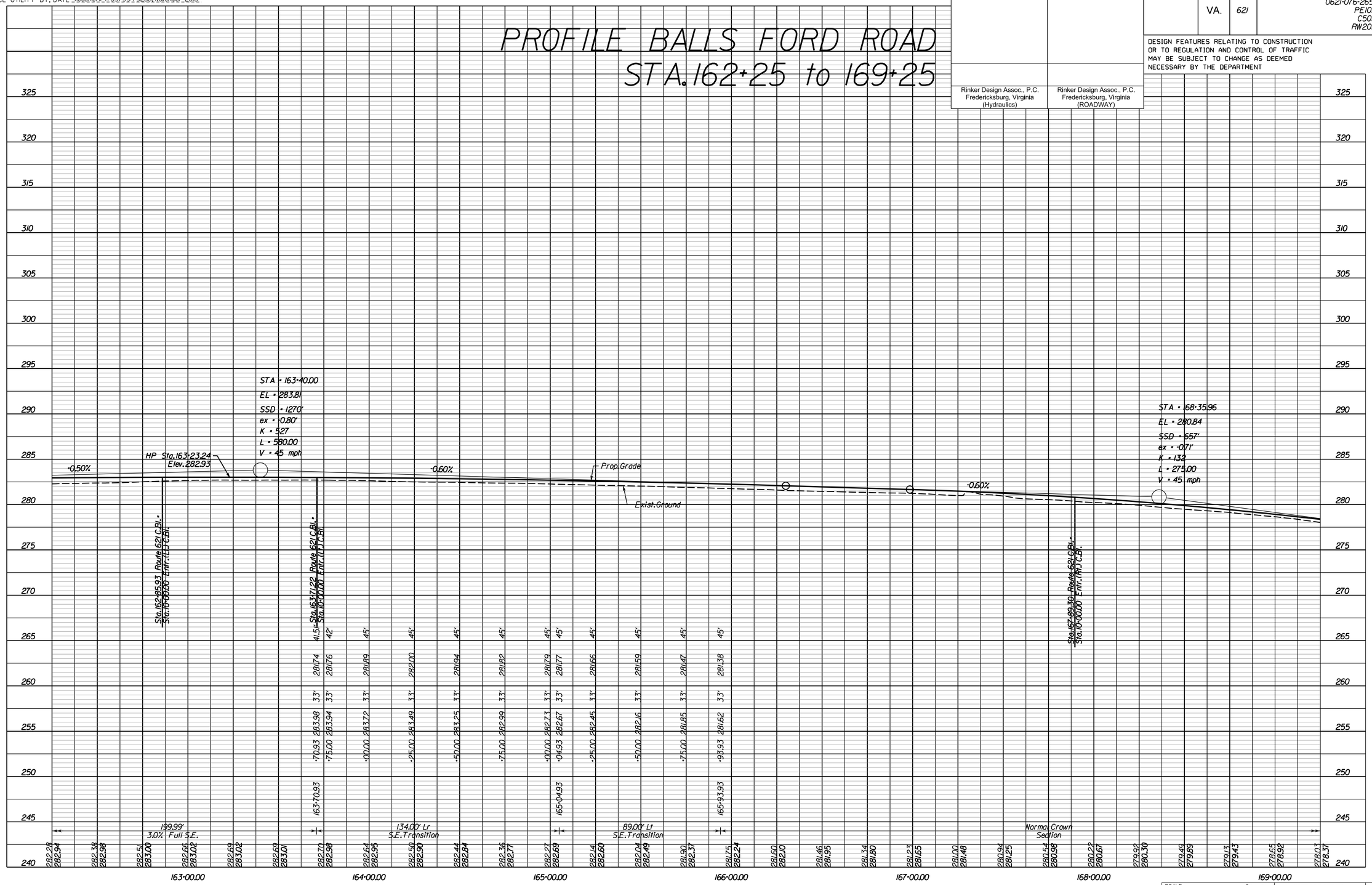

SCALE HORIZ: 1"=25' 0 10' 25' VERT: 1"=5' 0 1' 2'

VDOT PROJECT NO. 0621-076-265

SHEET NO. 11A

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

P.H. PLANS

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Right of Way Services
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5000 Dominion Boulevard, Suite 1 Chesapeake, VA 23320 Phone: (757) 523-0000 Fax: (757) 523-0001

3/25/2019

PROJECT MANAGER _ PWCDOT; Khattab Shammout, P.E. (703) 792-7193 _____
SURVEYED BY, DATE _ RDA; Ryan Dreplin LS (703) 334-9302; September 2018
DESIGN BY _RDA; Mark A Gunn PE (703) 334-9288 _____
SUBSURFACE UTILITY BY, DATE _Accumark (703) 334-9288; November 2018

Rinker Design Associates, P.C.
Civil Engineering - Surveying - Land Planning
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Right of Way Services
Office Locations
401 Hartman Boulevard
Suite 100
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401 Hartman Boulevard
Suite 100
Glen Allen, VA 23060
Tel: (804) 346-1000
Fax: (804) 346-1000
4100 Chesapeake Boulevard
Suite 100
Norfolk, VA 23513
Tel: (757) 461-9400
Fax: (757) 461-9401

ENTRANCE PROFILES

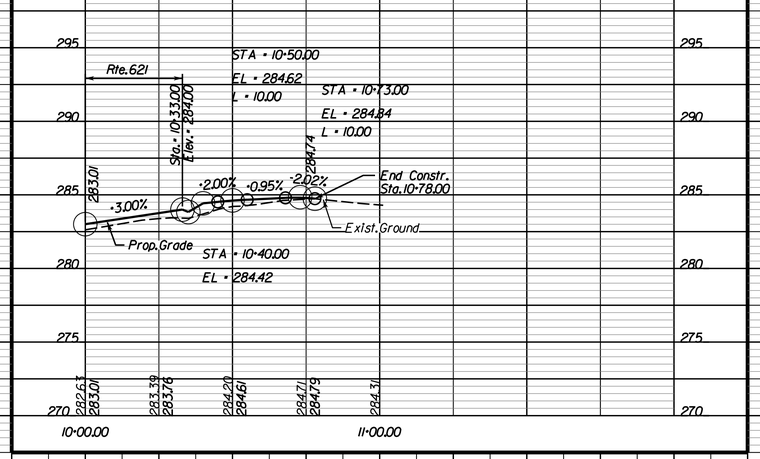
Rinker Design Assoc., P.C.
Fredericksburg, Virginia
(Hydraulics)

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

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.	621	0621-076-265 PE101 C501 RW201	11B

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.
Sta.162+85.93 Lt. off of Rte.621 Constr.Bl.



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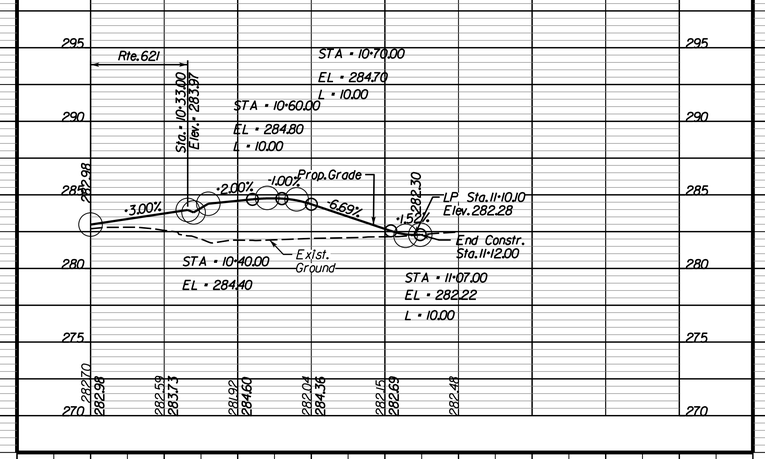
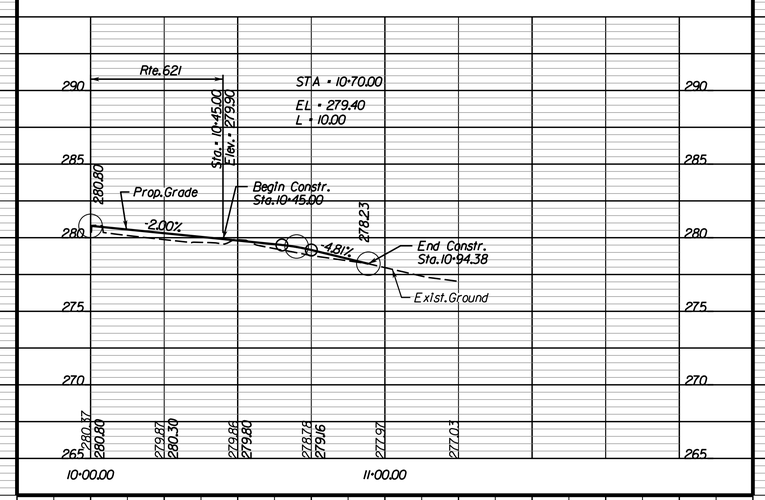
Sta.163+71.22 Lt. off of Rte.621 Constr.Bl.



Commercial CG-11 Entr.
Sta.167+89.30 Rt. off of Rte.621 Constr.Bl.



SCALE HORIZ: 1"=25' 0 10' 25' VERT: 1"=5' 0 1' 2'

VDOT PROJECT NO. 0621-076-265

SHEET NO. 11B

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

P.H. PLANS

3/25/2019

PROJECT MANAGER PWCDOT: Khattab Shammout, P.E. (703) 792-7193
SURVEYED BY, DATE RDA: Ryan Dreella LS (703) 334-9302: September 2018
DESIGN BY RDA: Mark A. Gunn P.E. (703) 334-9288
SUBSURFACE UTILITY BY, DATE Accumark (703) 378-0100: November 2018

Roadway Design Legend

- (1) → Denotes Str'd. MS-1 Req'd.
- (4) → Denotes Str'd. CG-6 Req'd.
- (5) → Denotes Str'd. Radial CG-6 Req'd.
- (13) → Denotes Str'd. CG-12, Type B Req'd.
- (14) → Denotes Tie to Existing Curb & Gutter
- (15) → Denotes Full Depth Saw Cut Req'd.
- (17) → Denotes 10' Shared Use Path

C _ _ _ Denotes Construction Limits In Cuts
F _ _ _ Denotes Construction Limits In Fills

Note: Prop. Linework in dot - dashed lines denote Permanent Easements.
Note: Prop. Linework in dot - dot - dashed lines denote Temporary Easements.

REVISED	STATE	STATE ROUTE	STATE VDOT PROJECT NO.	SHEET NO.
	VA.	621	0621-076-265 PE101 C501 RW201	12

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)

Rinker Design Associates, P.C.
Civil Engineering - Surveying - Land Planning
Transportation - Environmental
Right of Way Services
Office Locations
Fredericksburg, VA 22407 Phone: (540) 373-1460 Fax: (540) 373-8117
8100 Tallwood Blvd. Suite 100 Phone: (757) 490-9220 Fax: (757) 490-9226
8100 Discovery Boulevard Suite 100 Phone: (703) 378-0100 Fax: (703) 378-0141

ALERT:
SITE PLAN PROPOSED FOR THIS AREA. CHECK FOR THE SITE PLAN CONSTRUCTION AT EACH STAGE OF PROJECT DEVELOPMENT AND ORDER ADDITIONAL SURVEY WHEN CONSTRUCTED. STATUS OF ANY PROFFERED R/W SHOULD BE CHECKED AT R/W STAGE

North

027
MARION CAESAR WHEELER ESTATE
Inst.# 201601200003900
28.3543 AC.
Tax# 7597-95-8953

UTILITY OWNERS
(SEE SHEET 1H)

12A POT Balls Ford Rd. Sta. 170+56.41
POT Ashton Ave. Sta. 10+00.00
Delta = 81°42'05.95" Rt.

Match Line, Sta. 169+25 See Sheet 11

Prop. Temp. Constr. Ease.
Exist. R/W
LOD
End Proj.: 0621-076-265, C501
Sta. 169+68.13
End Proj.: 0621-076-265, RW201
Sta. 170+14.14
End Constr./
Proj.: 0621-076-265, PE101
171+17.25
Rte. 621 Constr. ℄
Balls Ford Rd. W.B.
Balls Ford Rd. E.B.
AP-20T 263.83
AP-21T 263.66
In Pl. 15" Conc. Pipe
*760596A
(Empty) Cab. *621010
RC=50.0'
RC=25.0'
RC=35.0'
Do not disturb
Str'd. 4" Conc. S/W Req'd.
Prop. Temp. Constr. Ease.
ALERT:
SITE PLAN PROPOSED FOR THIS AREA. CHECK FOR THE SITE PLAN CONSTRUCTION AT EACH STAGE OF PROJECT DEVELOPMENT AND ORDER ADDITIONAL SURVEY WHEN CONSTRUCTED. STATUS OF ANY PROFFERED R/W SHOULD BE CHECKED AT R/W STAGE
029
SEJ ASSET MANAGEMENT & INVESTMENT COMPANY
Inst.# 201304120037917
1.3044 AC.
Tax# 7597-94-9277
AP-23 271.07
Ashton Avenue
Rte. 1600 Constr. ℄
RCKF BULL RUN COMMERCIAL LLC
Inst.# 201711160086591
7.5262 AC.
Tax# 7697-04-4269

Design Pattern Legend

- Denotes Limits of Full Depth Pave.
- Denotes Limits of Mill and Overlay
- Denotes Limits of Demolition of Pave.
- Denotes Limits of Concrete

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(12) and 1R(12)
Typical Sections	2A - 2B
Drainage Descriptions	2K - 2K(1)
Profile Route 621	12A
Profile Entr. and Conn.	12B

SCALE 0 25' 50'

VDOT PROJECT NO.	SHEET NO.
0621-076-265	12

ADDITIONAL EASEMENTS FOR UTILITY RELOCATIONS MAY BE REQUIRED BEYOND THE PROPOSED RIGHT-OF-WAY SHOWN ON THESE PLANS

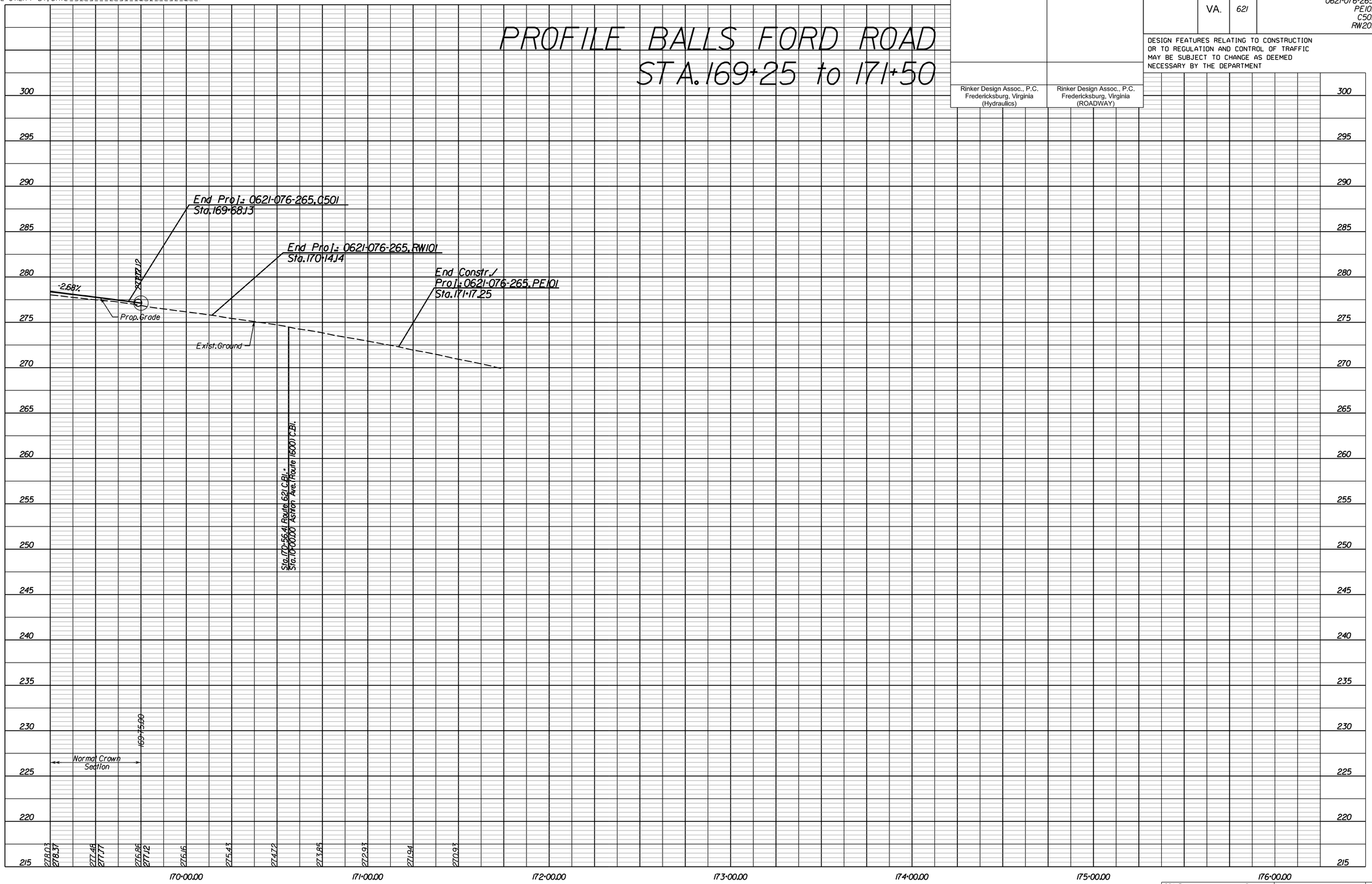
THESE PLANS ARE UNFINISHED AND UNAPPROVED AND ARE NOT TO BE USED FOR ANY TYPE OF CONSTRUCTION OR THE ACQUISITION OF RIGHT OF WAY

P.H. PLANS

3/25/2019

PROJECT MANAGER _ PWCDOT: Khattab Shammout, P.E. (703) 792-7193
SURVEYED BY, DATE _ RDA: Ryan Dreelin LS (703) 334-9302: September 2018
DESIGN BY _RDA: Mark A. Gunn PE (703) 334-9288
SUBSURFACE UTILITY BY, DATE _Accumark (703) 334-9288: November 2018

PROFILE BALLS FORD ROAD
STA. 169+25 to 171+50



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

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

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.	621	0621-076-265 PE101 C501 RW201	12A

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

SCALE HORIZ: 1"=25' (0, 10', 25') VERT: 1"=5' (0, 1, 2)

VDOT PROJECT NO. 0621-076-265

SHEET NO. 12A

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

P.H. PLANS

Rinker Design Associates, P.C.
Civil Engineering - Surveying - Land Planning
Transportation - Environmental
Right of Way Services
Office Locations
www.rinkerdesign.com
Fredericksburg, VA 22401 Tel: (540) 373-7400 Fax: (540) 373-8479
Gloucester, VA 23061 Tel: (804) 693-3700 Fax: (804) 693-3707
Manassas, VA 20110 Tel: (703) 335-9440 Fax: (540) 373-8479
Glen Allen, VA 23060 Tel: (804) 747-1758 Fax: (804) 747-5160
Petersburg, VA 23805 Tel: (804) 861-6080 Fax: (804) 861-6081
Ryan Dreelin Direct Line: (540) 373-7400 x 1247

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

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3001 Dickerson Boulevard
Suite 100
Fredericksburg, VA 22408
Phone: (540) 373-3161
Fax: (540) 373-0444

3001 Dickerson Boulevard
Suite 100
Fredericksburg, VA 22408
Phone: (540) 373-3161
Fax: (540) 373-0444

Richmond Office
3001 Dickerson Boulevard
Suite 100
Fredericksburg, VA 22408
Phone: (540) 373-3161
Fax: (540) 373-0444

PROJECT MANAGER PWCDOT: Khattab Shammout, P.E. (703) 792-7193
SURVEYED BY, DATE RDA: Ryan Dceelln LS (703) 334-9302: September 2018
DESIGN BY RDA: Mack A. Gunn, PE (703) 334-9288
SUBSURFACE UTILITY BY, DATE Accumark (703) 378-0100: November 2018

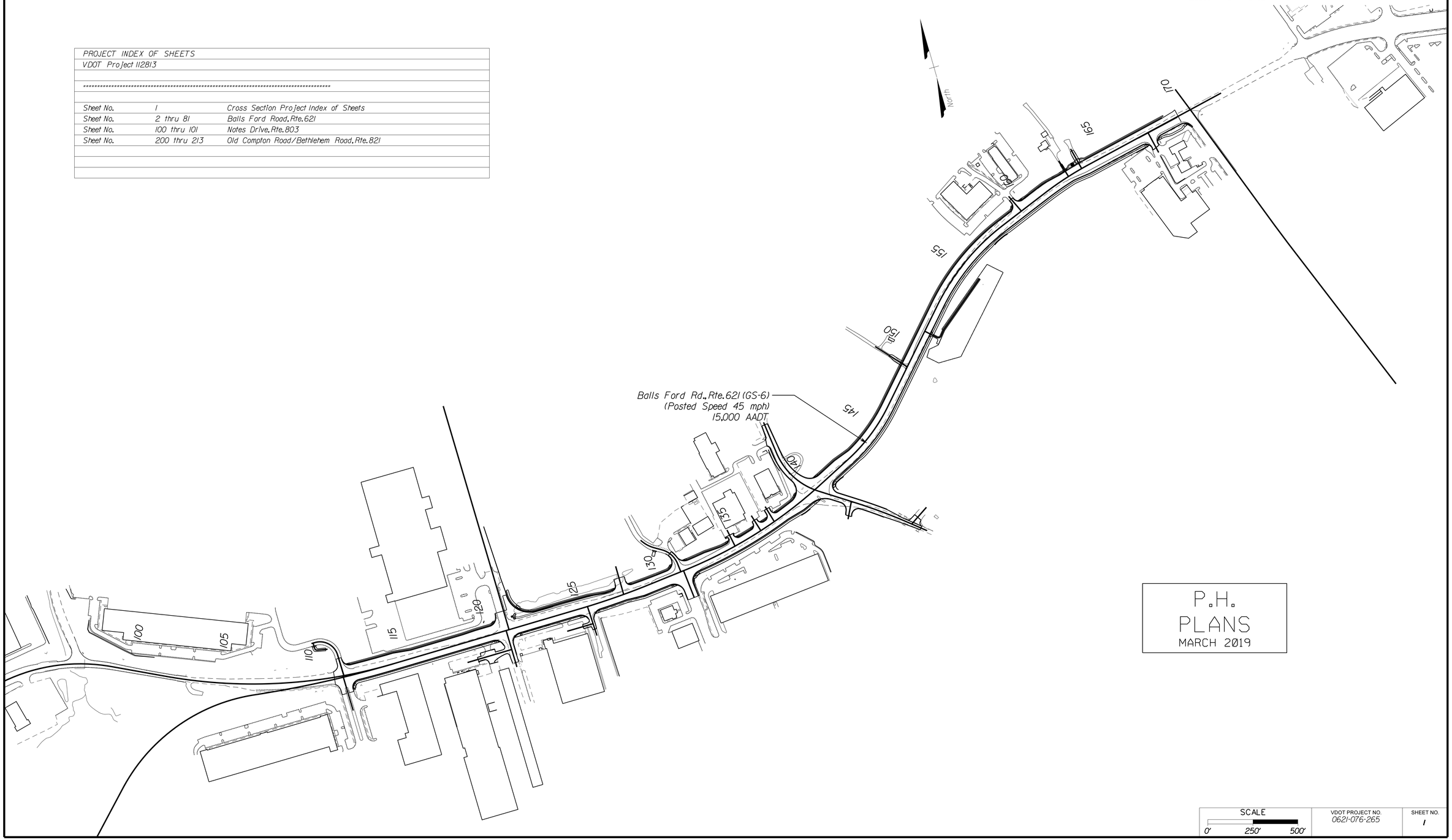
Cross Section Index of Sheets

REVISED	STATE	STATE ROUTE	STATE VDOT PROJECT NO.	SHEET NO.
	VA.	621	0621-076-265 PE101 C501 RW201	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 112813

Sheet No.	1	Cross Section Project Index of Sheets
Sheet No.	2 thru 81	Balls Ford Road, Rte. 621
Sheet No.	100 thru 101	Notes Drive, Rte. 803
Sheet No.	200 thru 213	Old Compton Road/Bethlehem Road, Rte. 821



P.H.
PLANS
MARCH 2019

SCALE	VDOT PROJECT NO.	SHEET NO.
0' 250' 500'	0621-076-265	1

ADDITIONAL EASEMENTS FOR UTILITY RELOCATIONS MAY BE REQUIRED BEYOND THE PROPOSED RIGHT-OF-WAY SHOWN ON THESE PLANS

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

P.H. PLANS

3/22/2019
1:54:57 PM

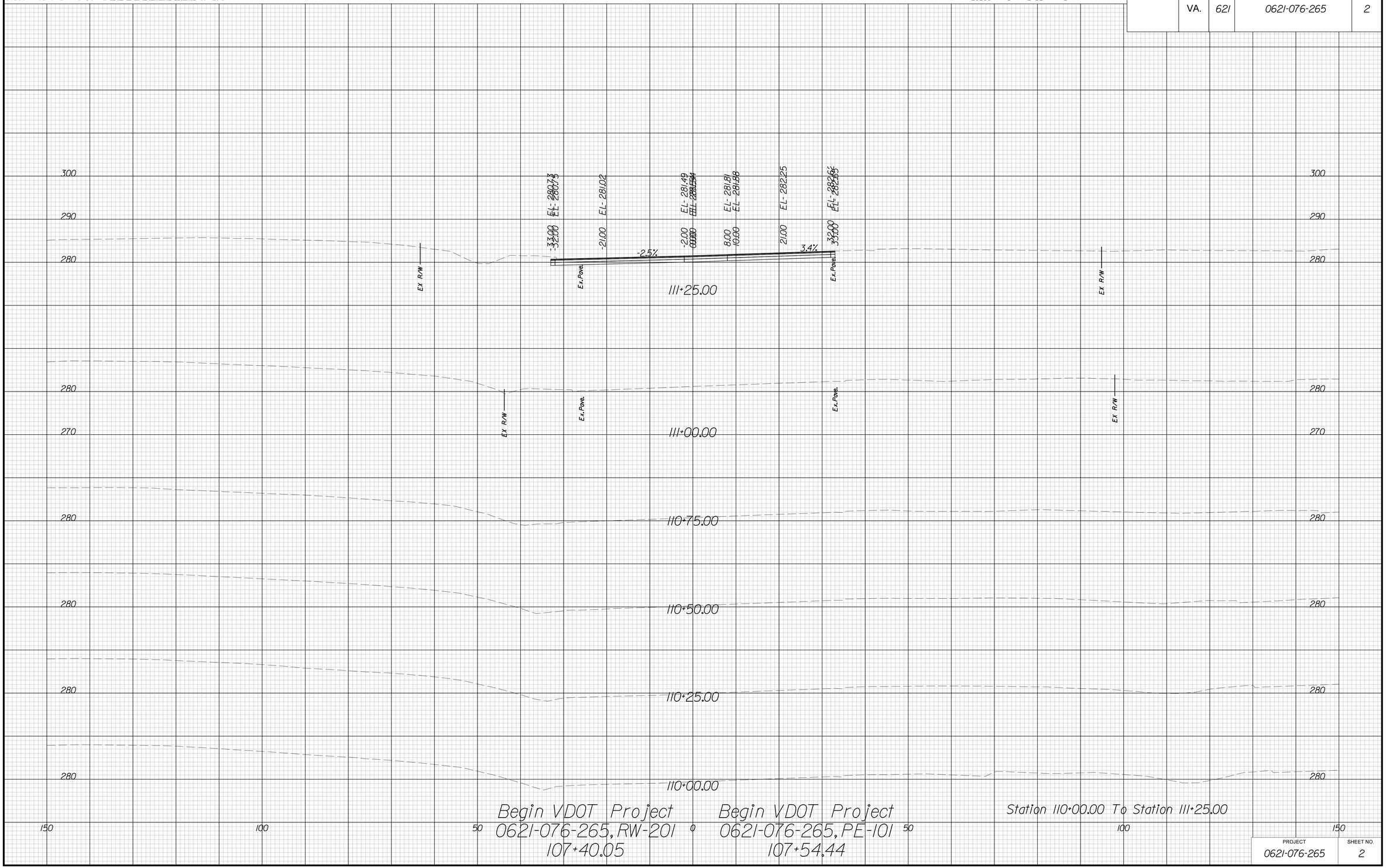
PROJECT MANAGER FHWA/VDOT: Kristian Shammout, P.E. (703) 732-7193
SURVEYED BY, DATE HDA: Efren Cepeda LLS (703) 334-3302: September 2018
DESIGN BY HDA: Mark A. Gum, P.E. (703) 334-3288
SUBSURFACE UTILITY BY, DATE Accumark (703) 378-0100: November 2018

CROSS SECTIONS

SCALE 1 IN. = 10 FT

DESIGN 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 ROUTE	STATE PROJECT	SHEET NO.
	VA.	621	0621-076-265	2



PROJECT	SHEET NO.
0621-076-265	2

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

P.H. PLANS

3/22/2019
1:55:01 PM

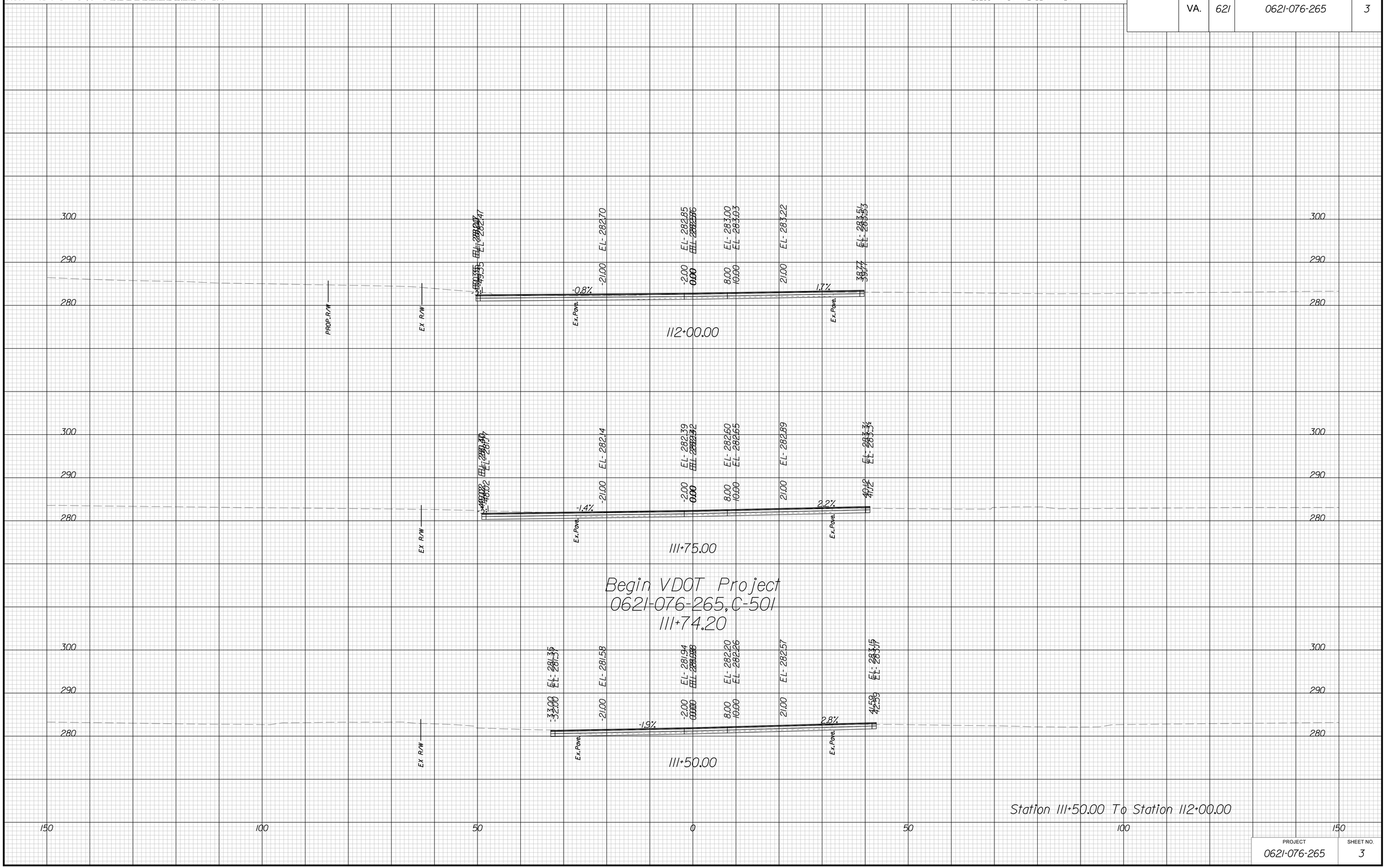
PROJECT MANAGER: VDOT: Kristian Shammout, P.E. (703) 792-7193
SURVEYED BY, DATE: HDA: Ethan Cipetello LS (703) 334-3302: September 2018
DESIGN BY: HDA: Mark A. Gum, P.E. (703) 334-3288
SUBSURFACE UTILITY BY, DATE: Accumark (703) 378-0100: November 2018

CROSS SECTIONS

SCALE 1 IN. = 10 FT

DESIGN 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 ROUTE	STATE PROJECT	SHEET NO.
	VA.	621	0621-076-265	3



PROJECT	SHEET NO.
0621-076-265	3

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

P.H. PLANS

3/22/2019
1:55:05 PM

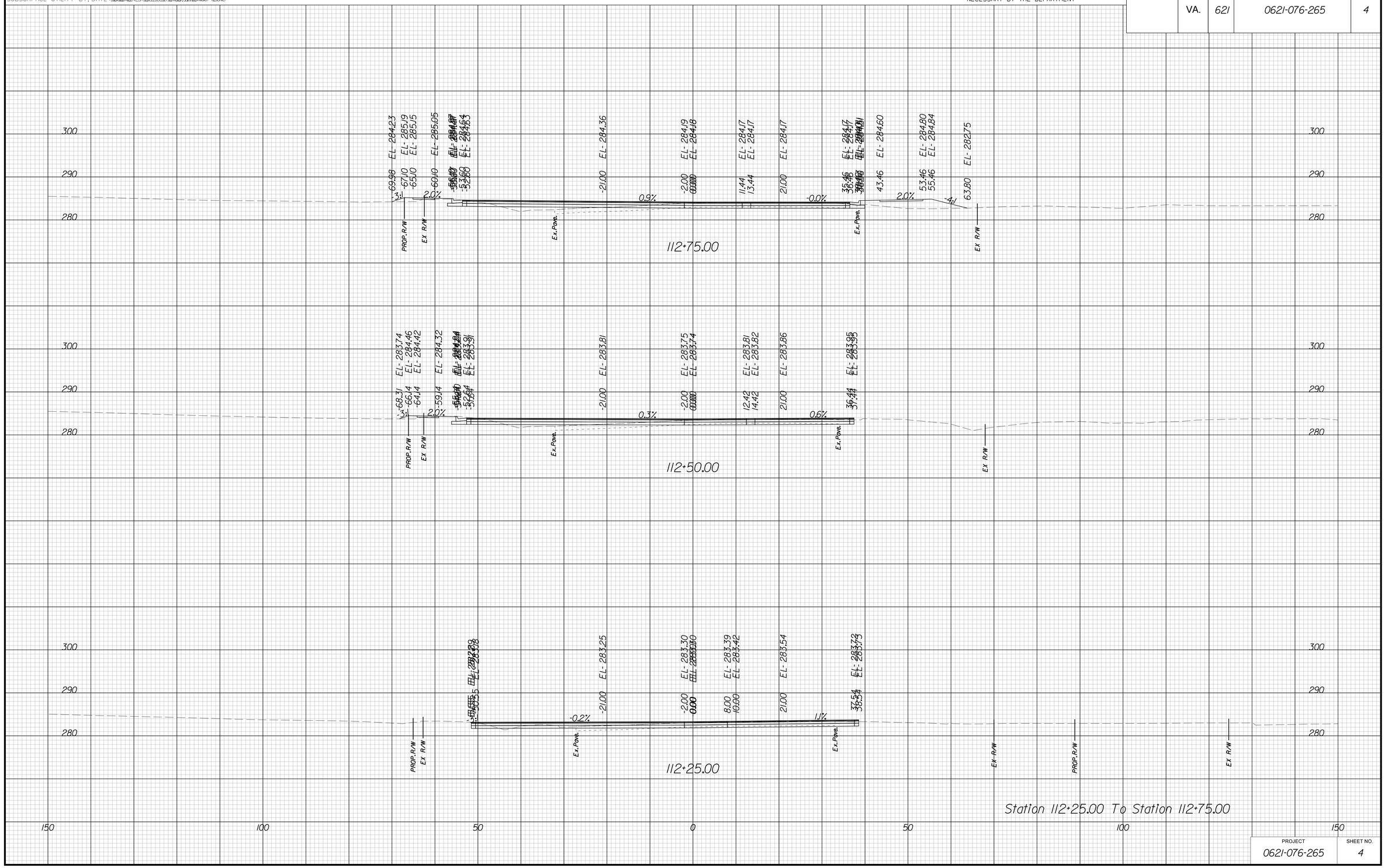
PROJECT MANAGER VDOT: Khatab Shammout, P.E. (703) 792-7193
SURVEYED BY, DATE HDA: Efren Cipriano LS (703) 334-3302 September 2018
DESIGN BY HDA: Mark A. Gum, P.E. (703) 334-3288
SUBSURFACE UTILITY BY, DATE Accumark (703) 378-0100 November 2018

CROSS SECTIONS

SCALE 1 IN. = 10 FT

DESIGN 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 ROUTE	STATE PROJECT	SHEET NO.
	VA.	621	0621-076-265	4



PROJECT	SHEET NO.
0621-076-265	4

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

P.H. PLANS

3/22/2019
1:55:09 PM

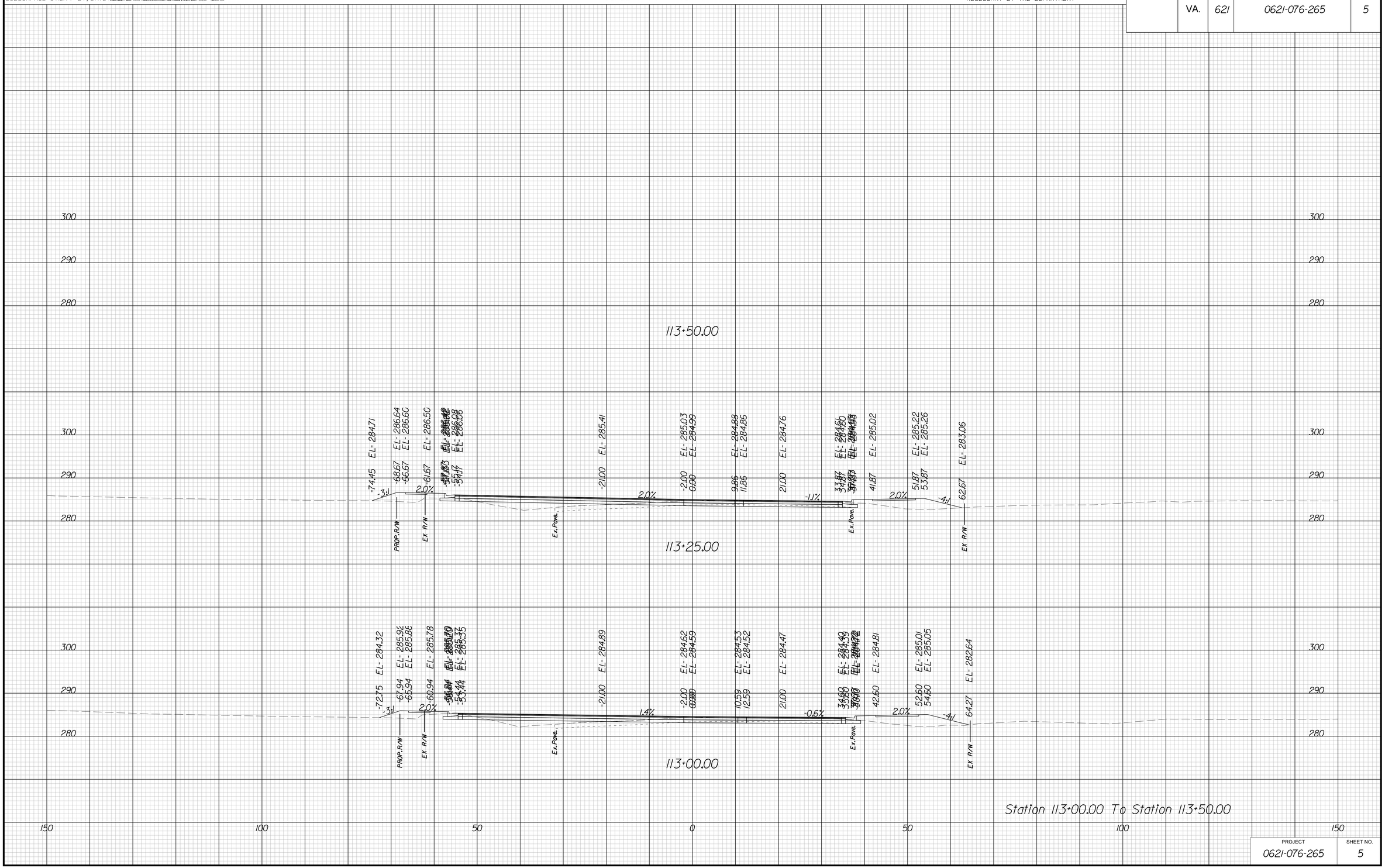
PROJECT MANAGER FHWA/VDOT: Khalid Shammout, P.E. (703) 792-7193
SURVEYED BY, DATE HDA: Efren Cabello LS (703) 334-3302; September 2018
DESIGN BY HDA: Mark A. Gum, P.E. (703) 334-3288 _ _ _ _ _
SUBSURFACE UTILITY BY, DATE Accumark (703) 378-0100; November 2018

CROSS SECTIONS

SCALE 1 IN. = 10 FT

DESIGN 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 ROUTE	STATE PROJECT	SHEET NO.
	VA.	621	0621-076-265	5



PROJECT	SHEET NO.
0621-076-265	5

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

P.H. PLANS

3/22/2019
1:55:13 PM

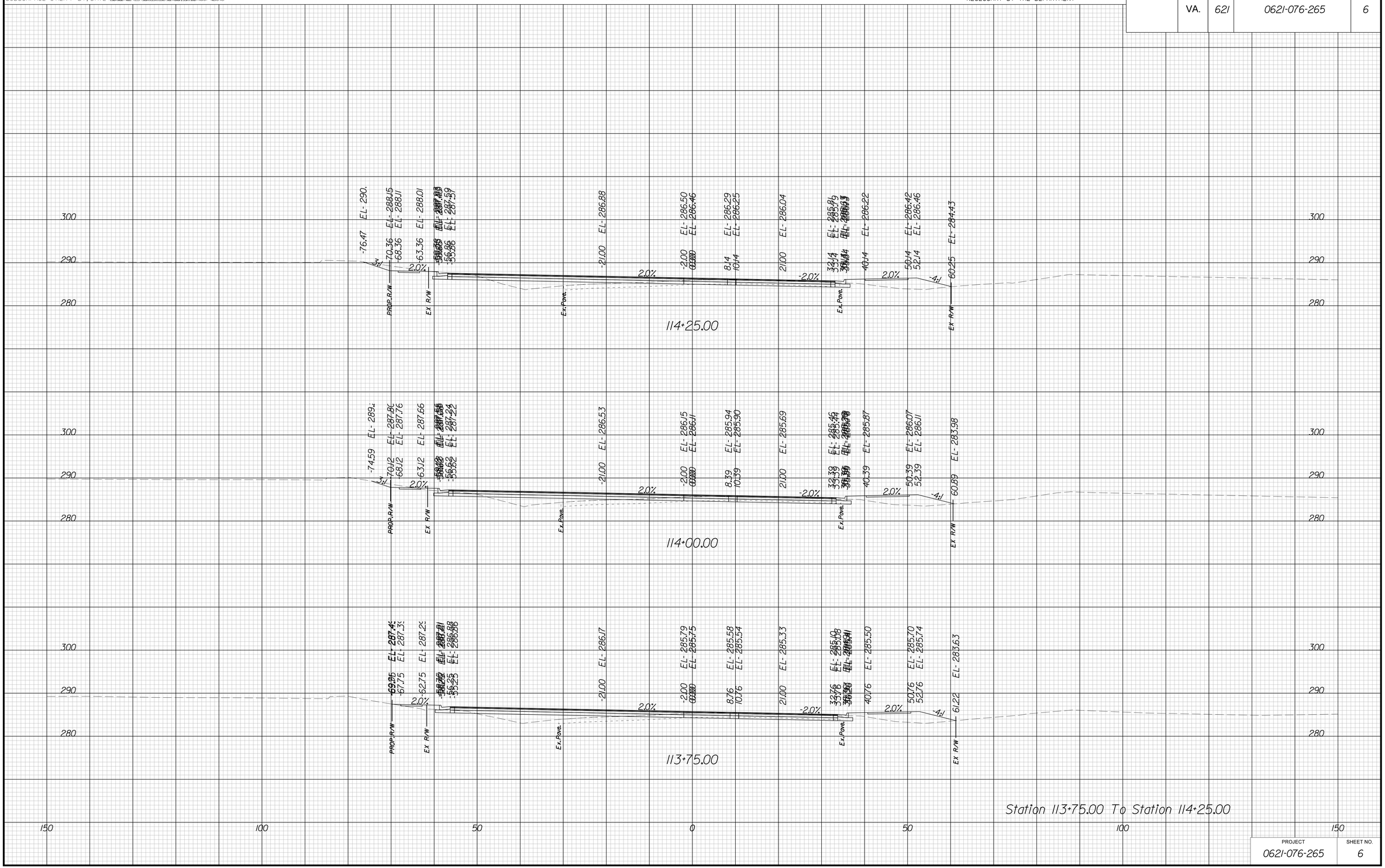
PROJECT MANAGER VDOT: Kristian Shammout, P.E. (703) 792-7193
SURVEYED BY, DATE HDA: Ethan Cipcello LS (703) 334-3302 September 2018
DESIGN BY HDA: Mark A. Gum, P.E. (703) 334-3288
SUBSURFACE UTILITY BY, DATE Accumark (703) 378-0100 November 2018

CROSS SECTIONS

SCALE 1 IN. = 10 FT

DESIGN 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 ROUTE	STATE PROJECT	SHEET NO.
	VA.	621	0621-076-265	6



PROJECT	SHEET NO.
0621-076-265	6

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

P.H. PLANS

3/22/2019
1:55:17 PM

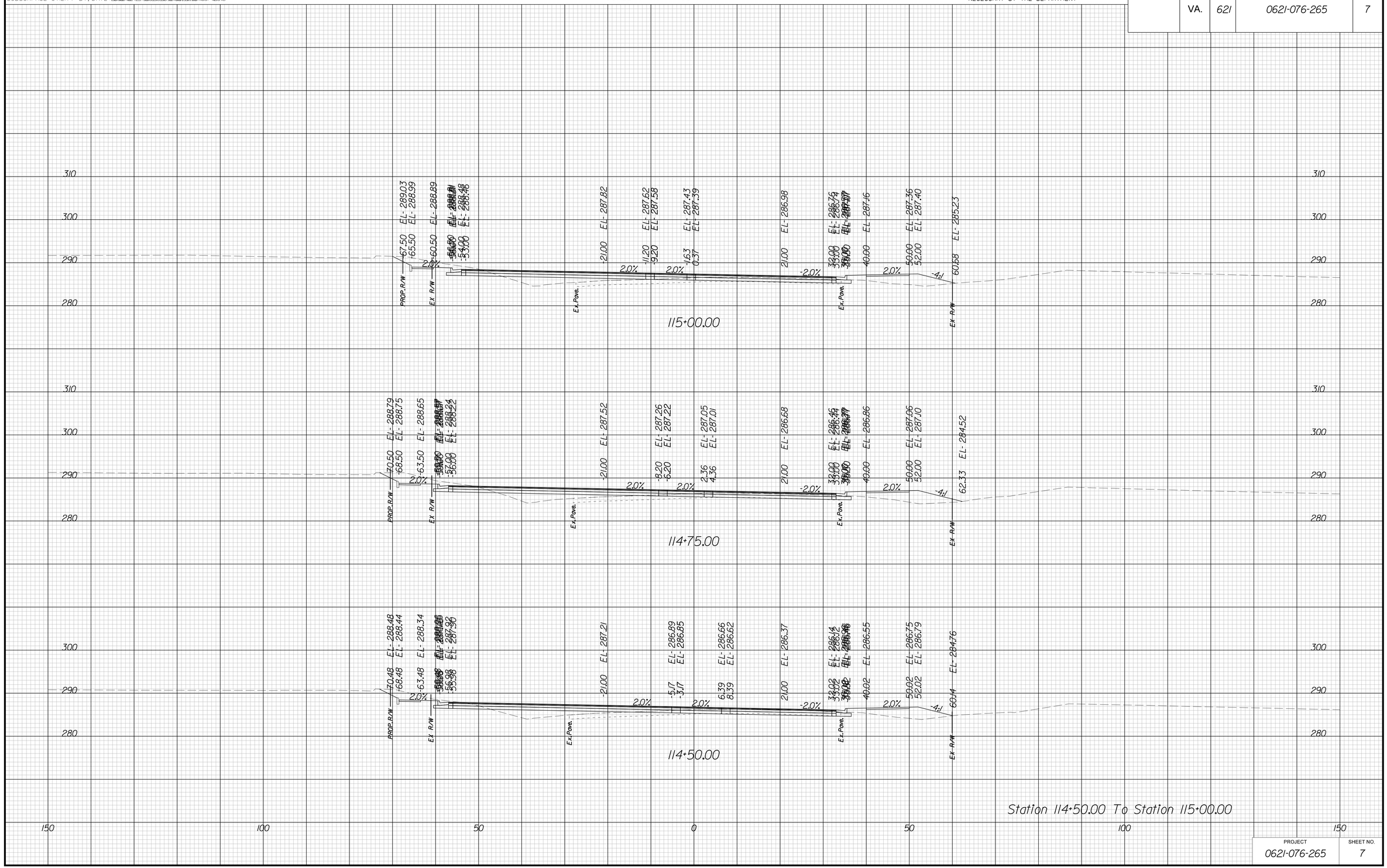
PROJECT MANAGER VDOT: Khatab Shammout, P.E. (703) 792-7193
SURVEYED BY, DATE HDA: Efren Cipriano LLS (703) 334-3302 September 2018
DESIGN BY HDA: Mark A. Gum, P.E. (703) 334-3288
SUBSURFACE UTILITY BY, DATE Accumark (703) 378-0100 November 2018

CROSS SECTIONS

SCALE 1 IN. = 10 FT

DESIGN 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 ROUTE	STATE PROJECT	SHEET NO.
	VA.	621	0621-076-265	7



PROJECT	SHEET NO.
0621-076-265	7

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

P.H. PLANS

3/22/2019
1:55:21 PM

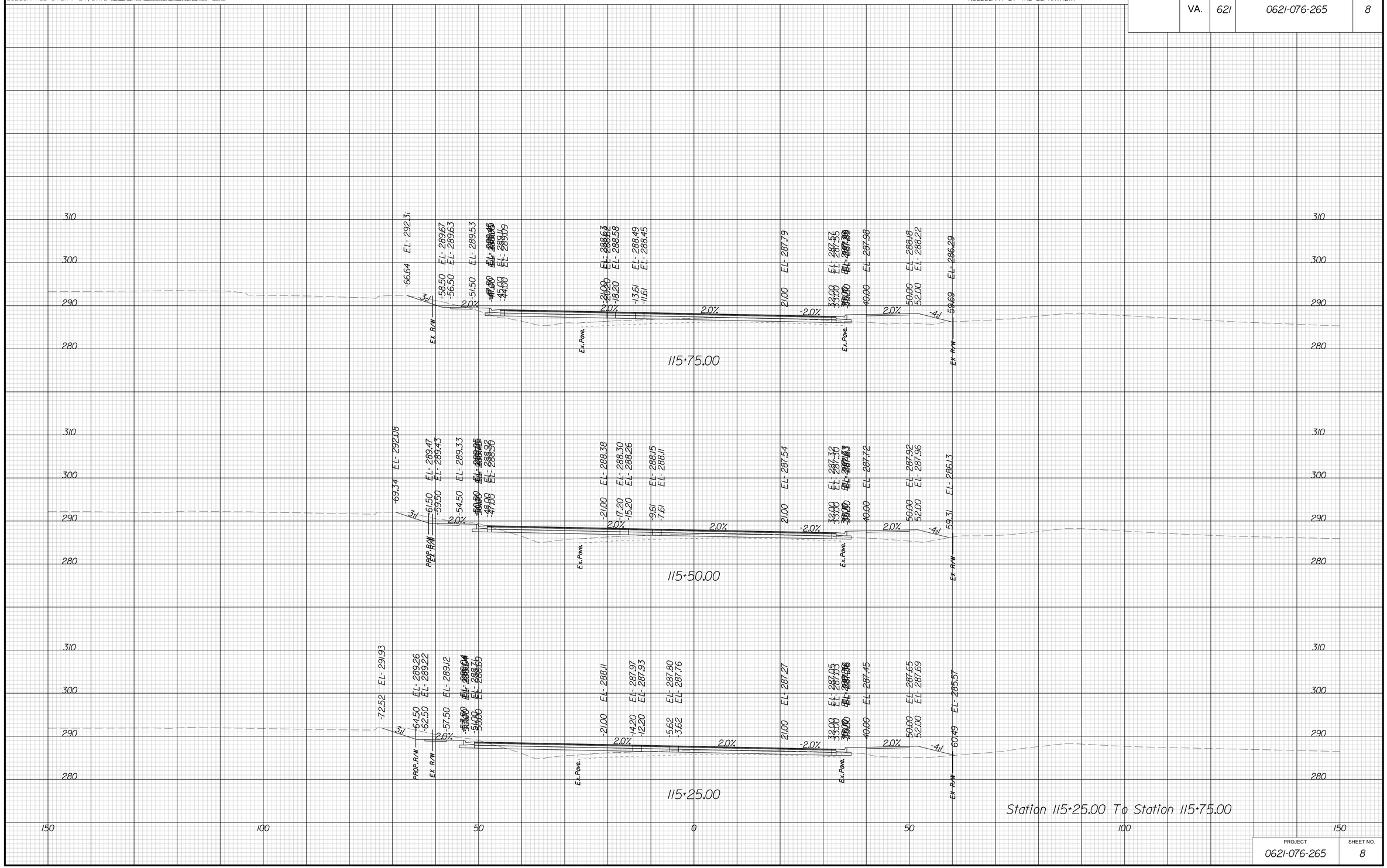
PROJECT MANAGER VDOT: Kristian Shammout, P.E. (703) 792-7195
SURVEYED BY, DATE HDA: Ethan Cipcello LS (703) 334-3302: September 2018
DESIGN BY HDA: Mark A. Gum, P.E. (703) 334-3288
SUBSURFACE UTILITY BY, DATE Accumark (703) 378-0100: November 2018

CROSS SECTIONS

SCALE 1 IN. = 10 FT

DESIGN 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 ROUTE	STATE PROJECT	SHEET NO.
	VA.	621	0621-076-265	8



Station 115+25.00 To Station 115+75.00

PROJECT	SHEET NO.
0621-076-265	8

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

P.H. PLANS

3/22/2019
1:55:26 PM

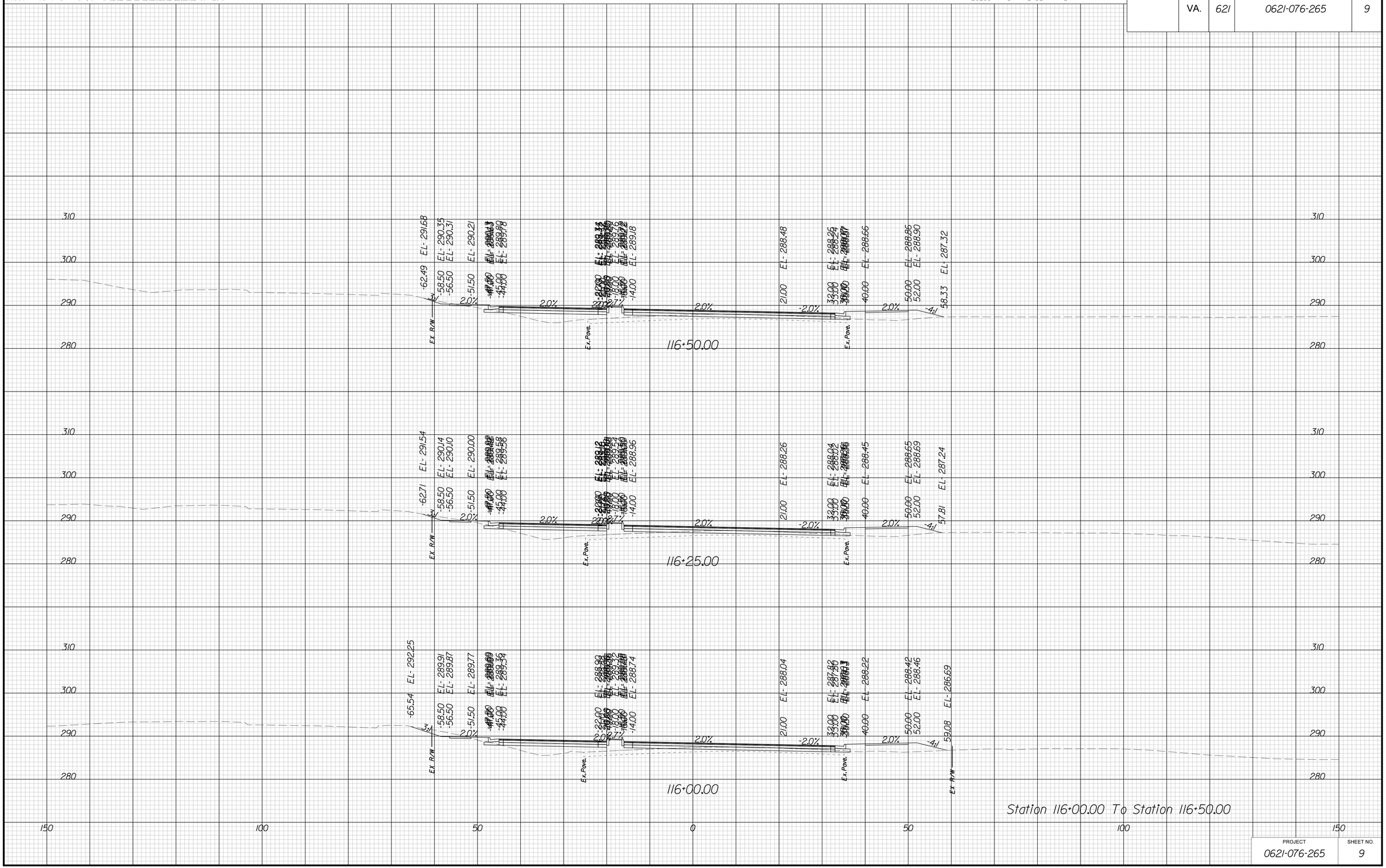
PROJECT MANAGER VDOT: Kristian Shammout, P.E. (703) 792-7193
SURVEYED BY, DATE HDA: Ethan Cipetello LS (703) 334-3302; September 2018
DESIGN BY HDA: Mark A. Gum, P.E. (703) 334-3288
SUBSURFACE UTILITY BY, DATE Accumark (703) 378-0100; November 2018

CROSS SECTIONS

SCALE 1 IN. = 10 FT

DESIGN 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 ROUTE	STATE PROJECT	SHEET NO.
	VA.	621	0621-076-265	9



PROJECT	SHEET NO.
0621-076-265	9

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

P.H. PLANS

3/22/2019
1:55:30 PM

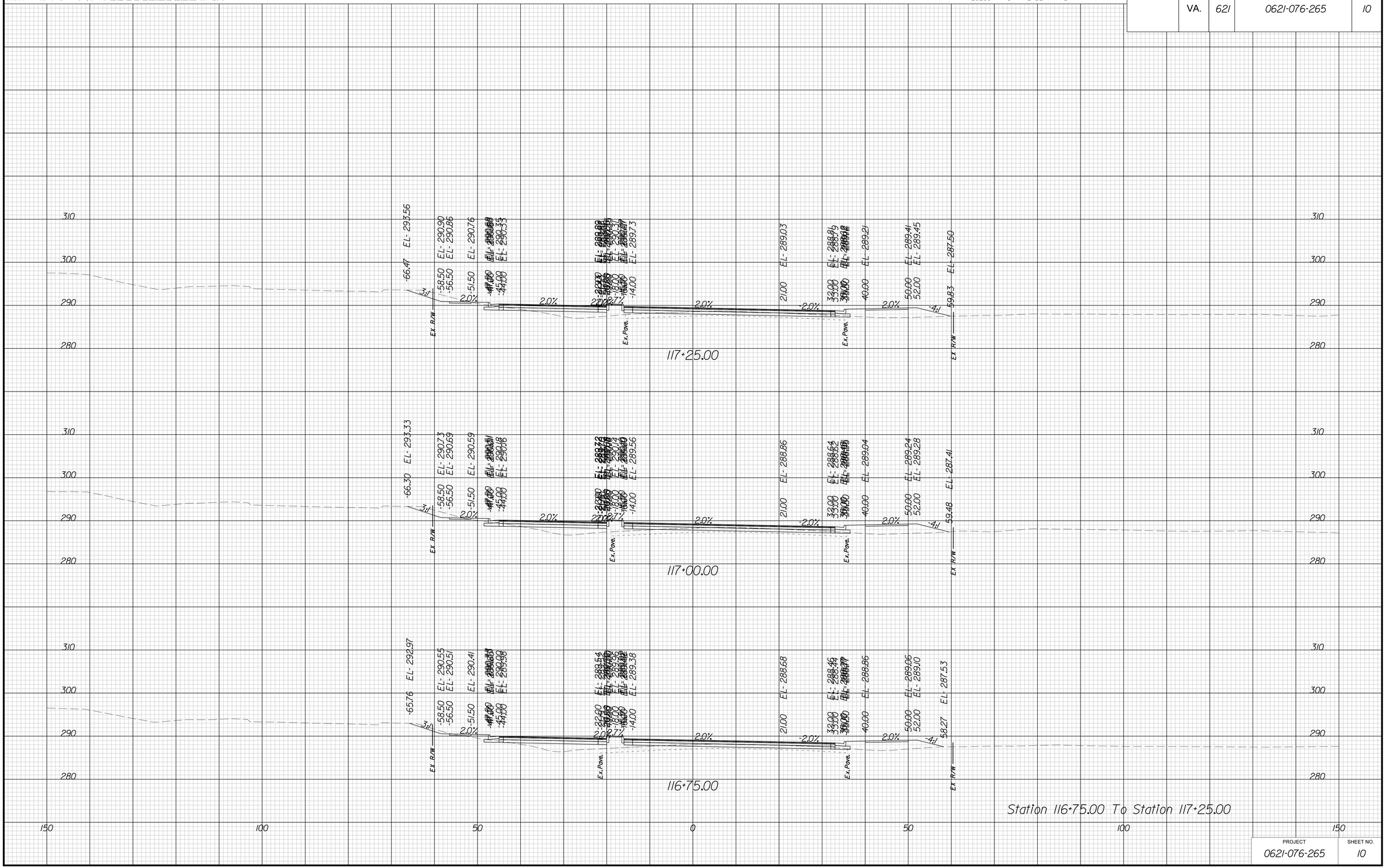
PROJECT MANAGER VDOT: Khatab Shammout, P.E. (703) 792-7193
SURVEYED BY, DATE HDA: Efren Cipriano LS (703) 334-3302 September 2018
DESIGN BY HDA: Mark A. Gum, P.E. (703) 334-3288
SUBSURFACE UTILITY BY, DATE Accumark (703) 378-0100 November 2018

CROSS SECTIONS

SCALE 1 IN. = 10 FT

DESIGN 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 ROUTE	STATE PROJECT	SHEET NO.
	VA.	621	0621-076-265	10



Station 116+75.00 To Station 117+25.00

PROJECT	SHEET NO.
0621-076-265	10

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

P.H. PLANS

3/22/2019
1:55:34 PM

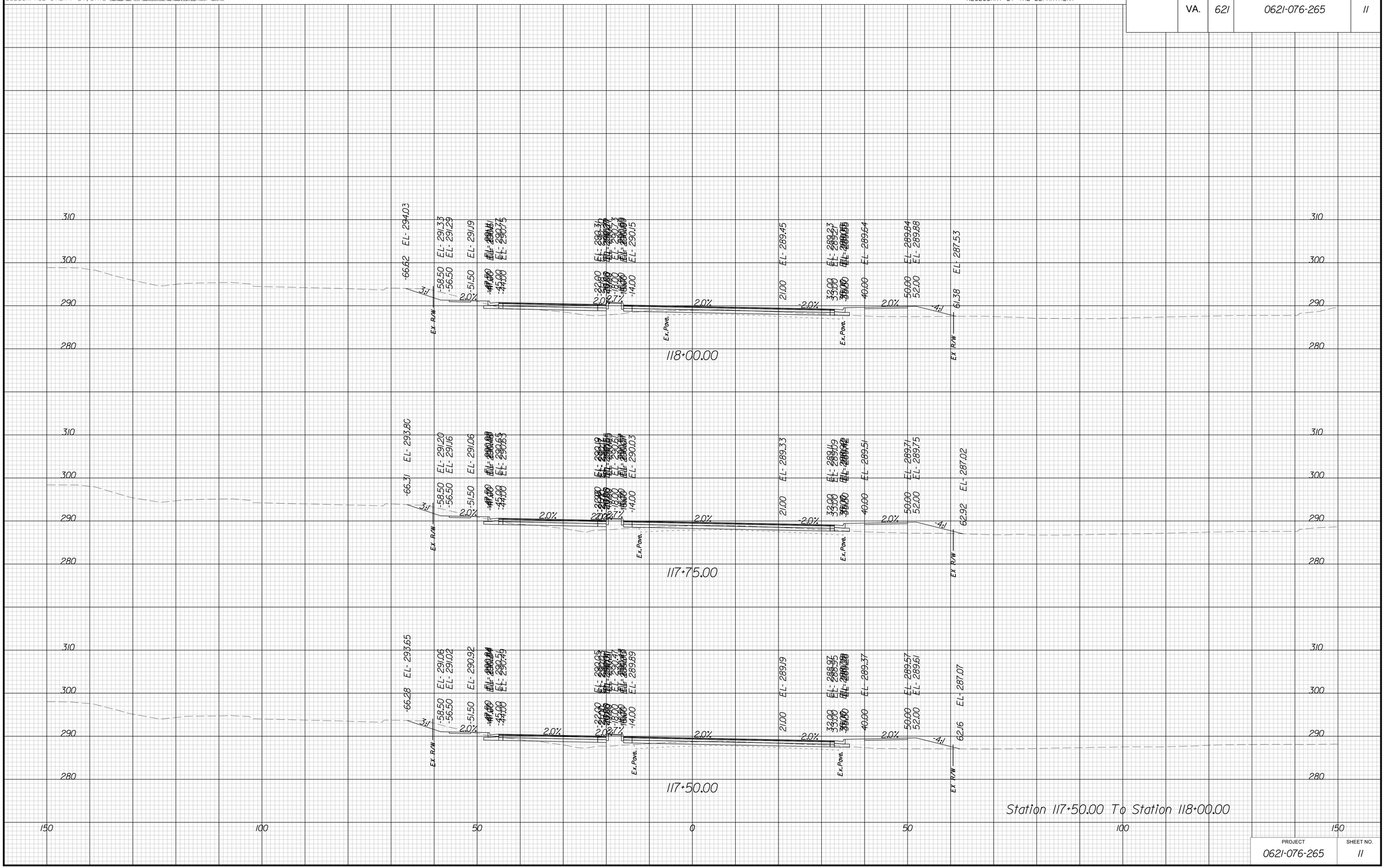
PROJECT MANAGER VDOT: Kristian Shammout, P.E. (703) 792-7193
SURVEYED BY, DATE HDA: Ethan Cipcello LS (703) 334-3302 September 2018
DESIGN BY HDA: Mark A. Gum, P.E. (703) 334-3302
SUBSURFACE UTILITY BY, DATE Accumark (703) 378-0100 November 2018

CROSS SECTIONS

SCALE 1 IN. = 10 FT

DESIGN 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 ROUTE	STATE PROJECT	SHEET NO.
	VA.	621	0621-076-265	11



PROJECT	SHEET NO.
0621-076-265	11

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

P.H. PLANS

3/22/2019
1:55:38 PM

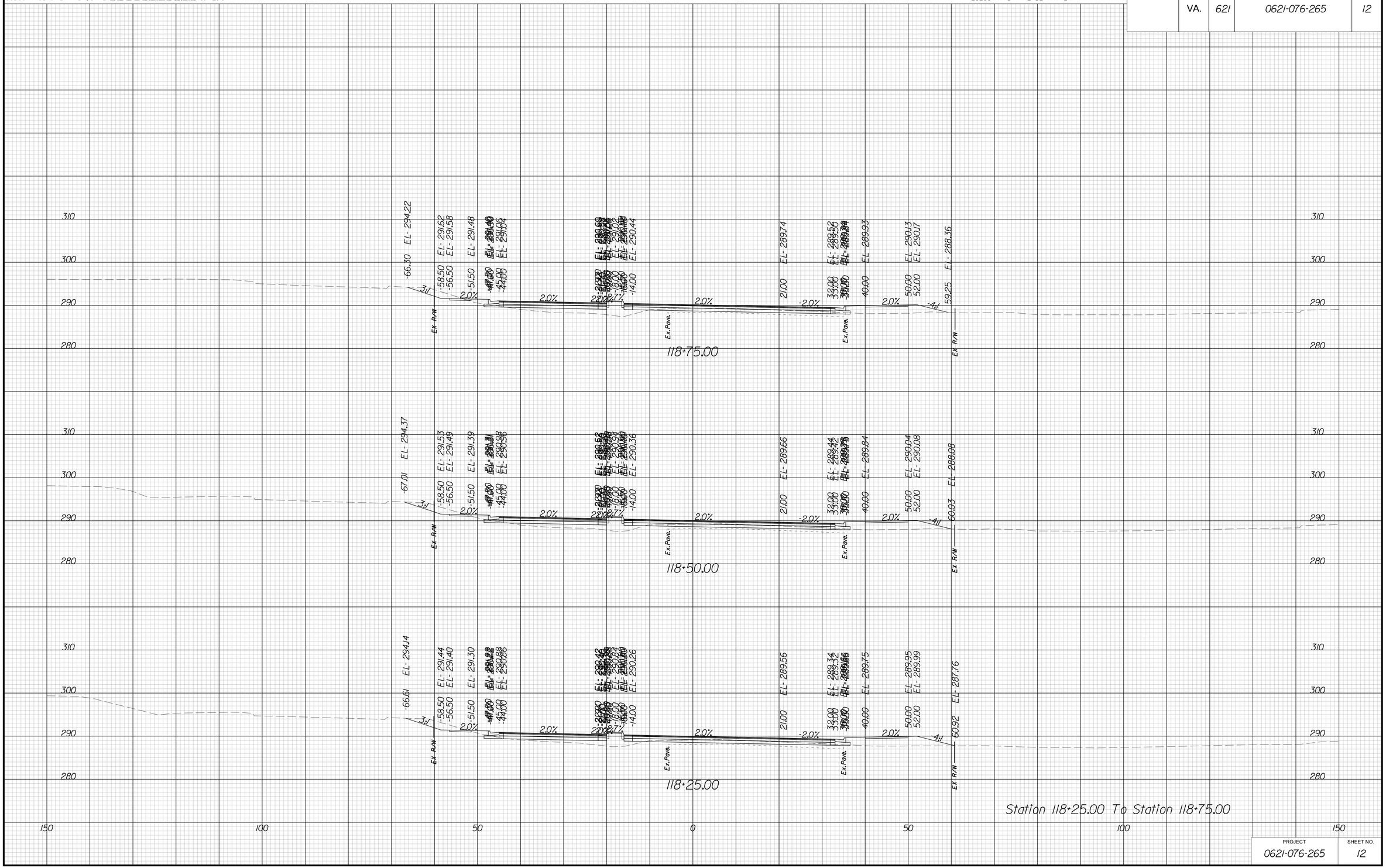
PROJECT MANAGER VDOT: Khatab Shammout, P.E. (703) 792-7193
SURVEYED BY, DATE HDA: Ethan Cipetello LS (703) 334-3302; September 2018
DESIGN BY HDA: Mark A. Gum, P.E. (703) 334-3302
SUBSURFACE UTILITY BY, DATE Accumark (703) 378-0100; November 2018

CROSS SECTIONS

SCALE 1 IN. = 10 FT

DESIGN 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 ROUTE	STATE PROJECT	SHEET NO.
	VA.	621	0621-076-265	12



PROJECT	SHEET NO.
0621-076-265	12

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

P.H. PLANS

3/22/2019
1:55:42 PM

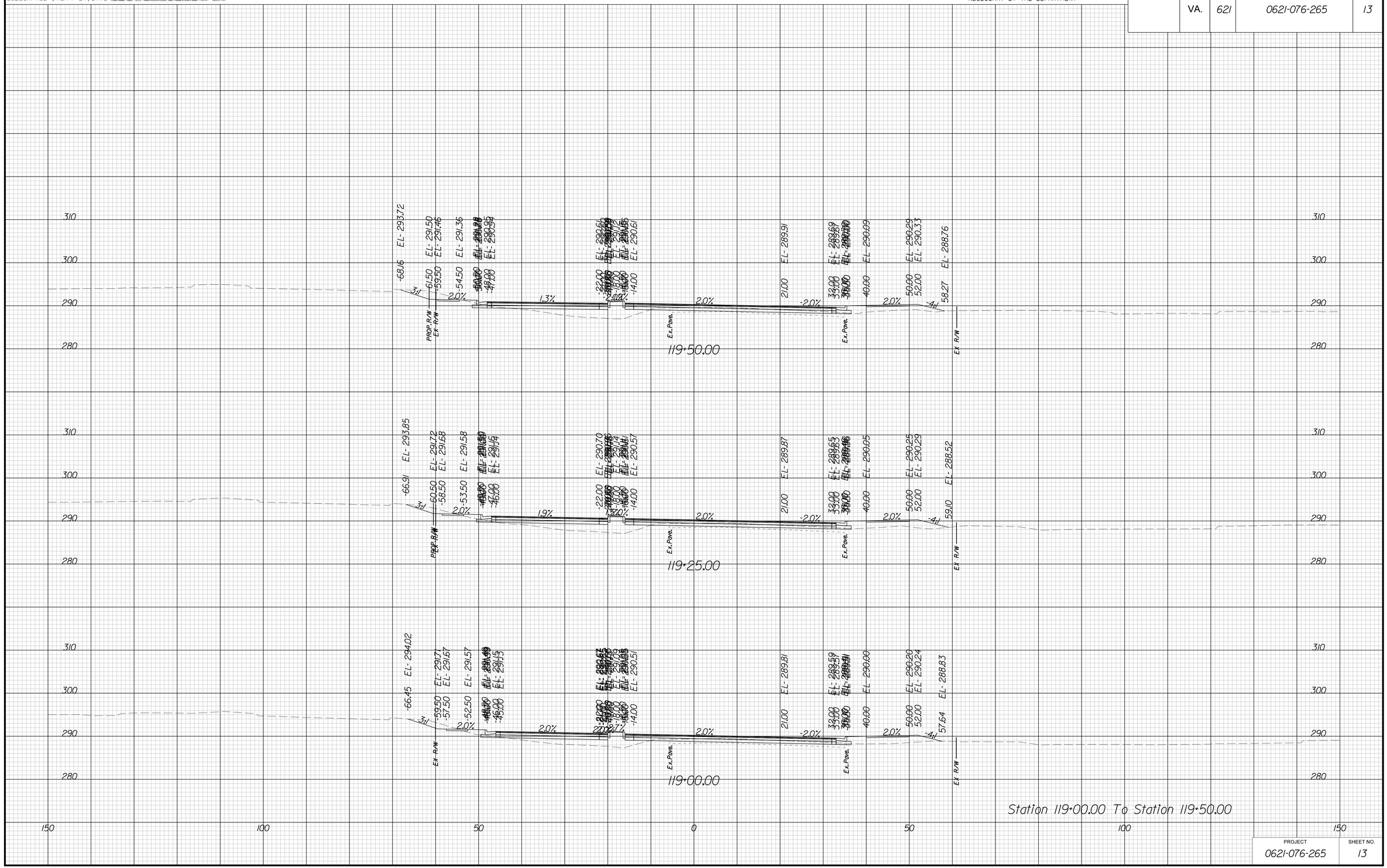
PROJECT MANAGER FHWA/VDOT: Khalid Shammout, P.E. (703) 732-7193
SURVEYED BY, DATE HDA: Efren Cipriano LS (703) 334-3302: September 2018
DESIGN BY HDA: Mark A. Gum, P.E. (703) 334-3448
SUBSURFACE UTILITY BY, DATE Accumark (703) 378-0100: November 2018

CROSS SECTIONS

SCALE 1 IN. = 10 FT

DESIGN 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 ROUTE	STATE PROJECT	SHEET NO.
	VA.	621	0621-076-265	13



PROJECT	SHEET NO.
0621-076-265	13

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

P.H. PLANS

3/22/2019
1:55:47 PM

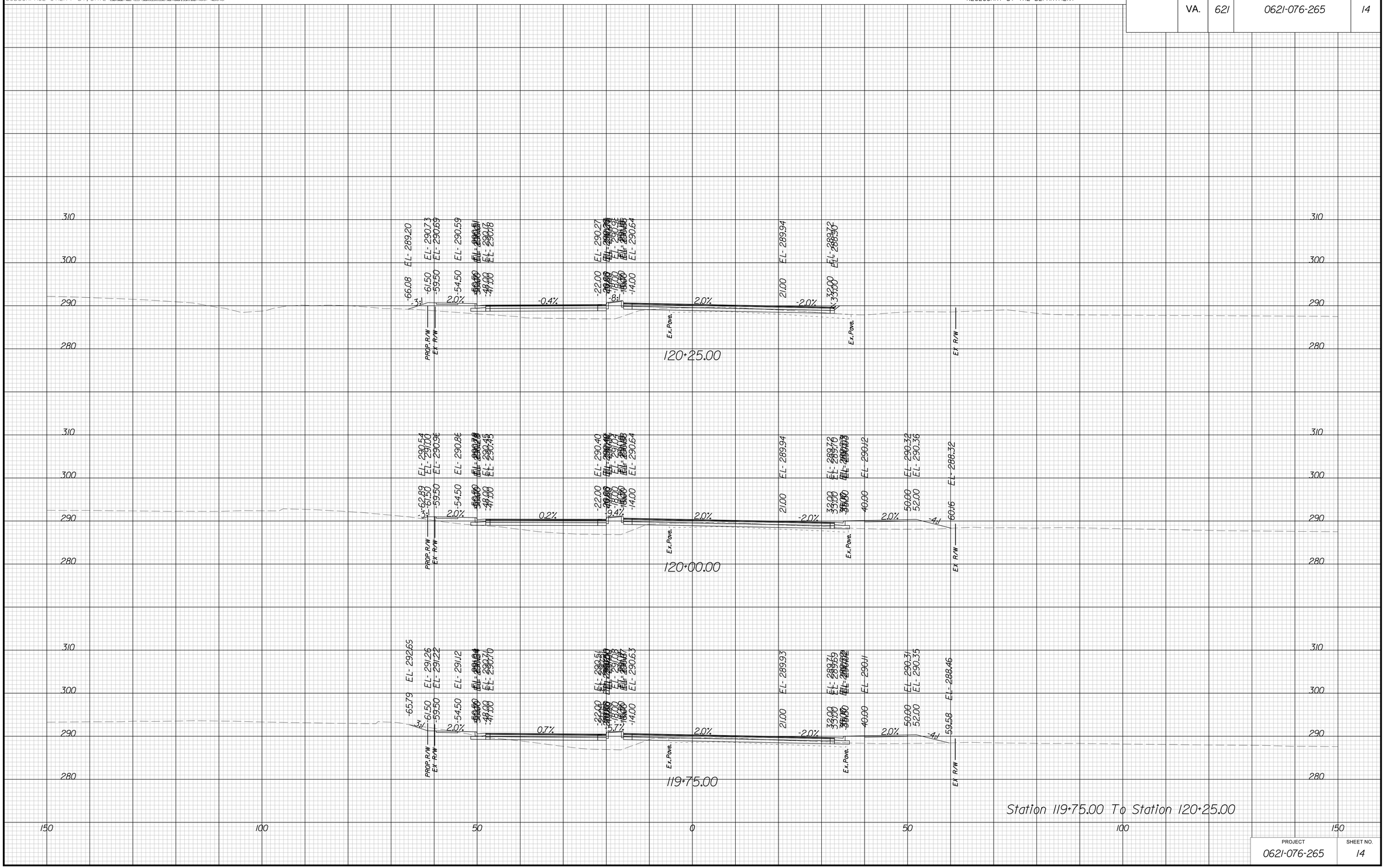
PROJECT MANAGER VDOT: Kristian Shammout, P.E. (703) 792-7193
SURVEYED BY, DATE HDA: Ethan Cipcello LS (703) 334-3302; September 2018
DESIGN BY HDA: Mark A. Gum, P.E. (703) 334-3302
SUBSURFACE UTILITY BY, DATE Accumark (703) 378-0100; November 2018

CROSS SECTIONS

SCALE 1 IN. = 10 FT

DESIGN 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 ROUTE	STATE PROJECT	SHEET NO.
	VA.	621	0621-076-265	14



PROJECT	SHEET NO.
0621-076-265	14

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

P.H. PLANS

3/22/2019
1:55:51 PM

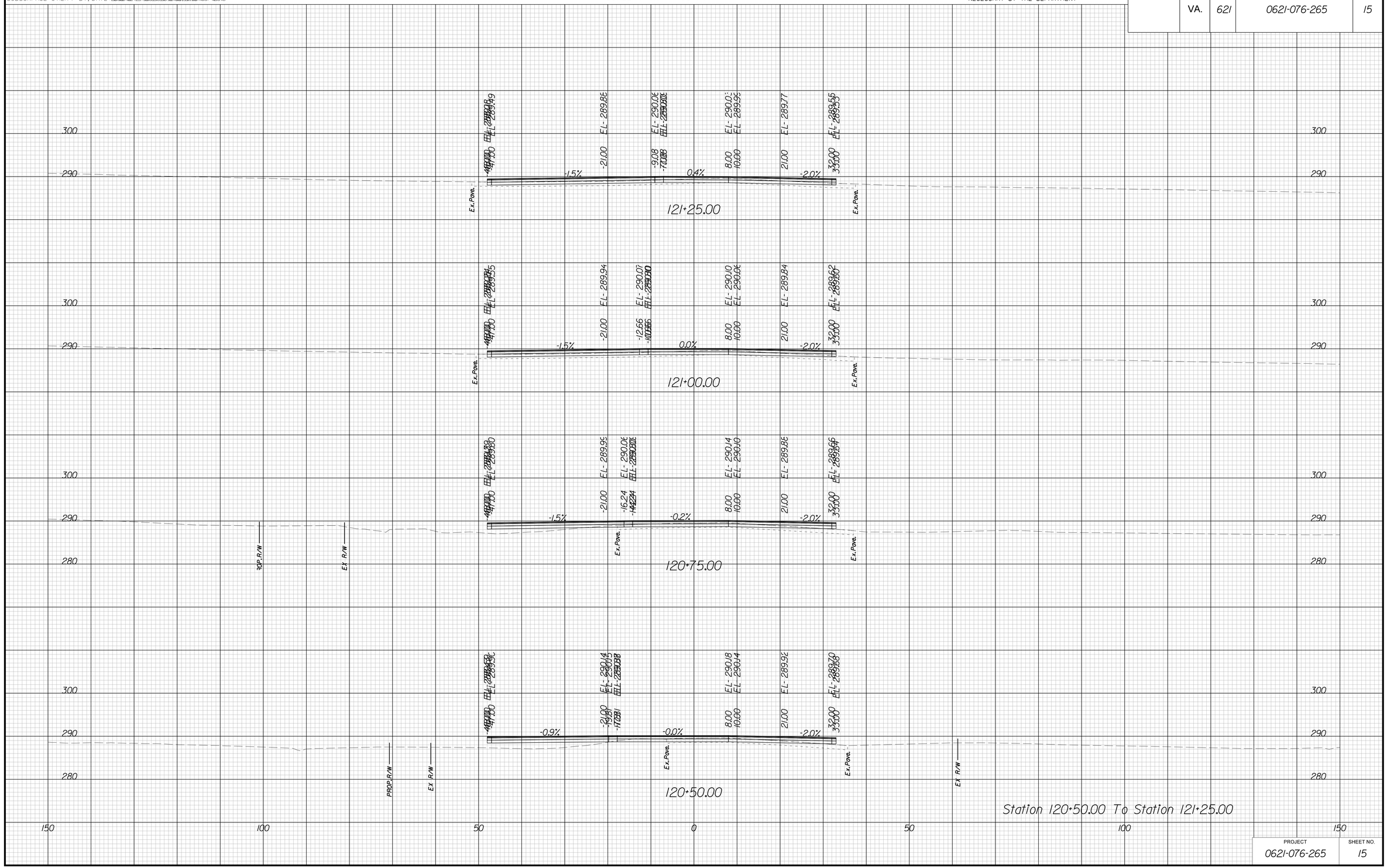
PROJECT MANAGER VDOT: Kristian Shammout, P.E. (703) 792-7193
SURVEYED BY, DATE HDA: Ethan Cipcetti LS (703) 334-3302; September 2018
DESIGN BY HDA: Mark A. Gum, P.E. (703) 334-3288
SUBSURFACE UTILITY BY, DATE Accumark (703) 378-0100; November 2018

CROSS SECTIONS

SCALE 1 IN. = 10 FT

DESIGN 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 ROUTE	STATE PROJECT	SHEET NO.
	VA.	621	0621-076-265	15



PROJECT	SHEET NO.
0621-076-265	15

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

P.H. PLANS

3/22/2019
1:55:55 PM

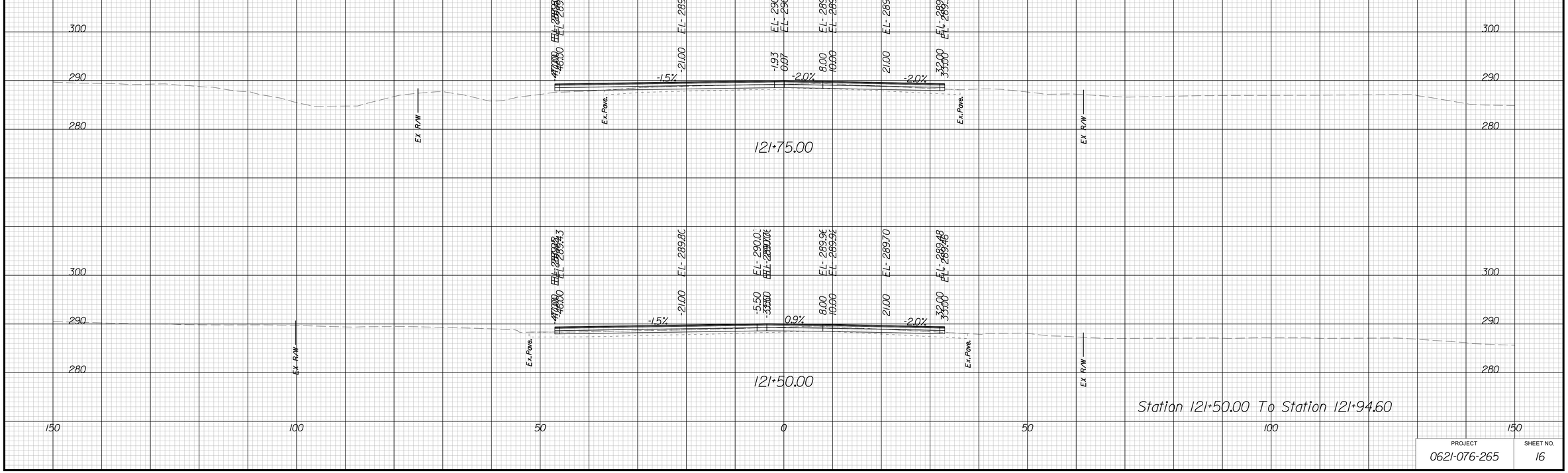
PROJECT MANAGER VDOT: Khatab Shammout, P.E. (703) 792-7193
SURVEYED BY, DATE HDA: Ethan Cipetello LS (703) 334-3302 September 2018
DESIGN BY HDA: Mark A. Gum, P.E. (703) 334-3302
SUBSURFACE UTILITY BY, DATE Accumark (703) 378-0100 November 2018

CROSS SECTIONS

SCALE 1 IN. = 10 FT

DESIGN 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 ROUTE	STATE PROJECT	SHEET NO.
	VA.	621	0621-076-265	16



Station 121+50.00 To Station 121+94.60

PROJECT	SHEET NO.
0621-076-265	16

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

P.H. PLANS

3/22/2019
1:55:59 PM

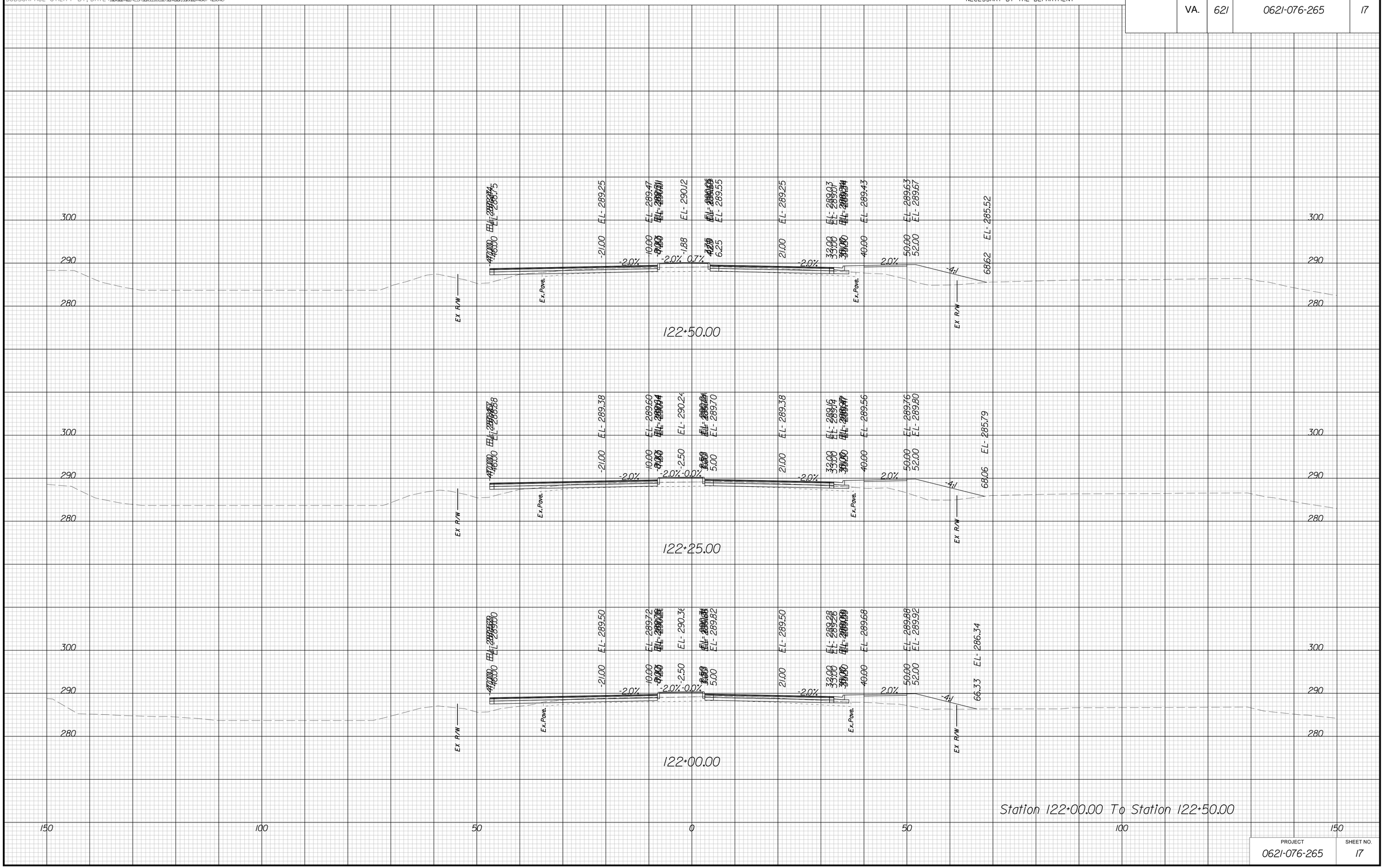
PROJECT MANAGER VDOT: Kristian Shammout, P.E. (703) 792-7193
SURVEYED BY, DATE HDA: Ethan Cipetello LS (703) 334-3302; September 2018
DESIGN BY HDA: Mark A. Gum, P.E. (703) 334-3288
SUBSURFACE UTILITY BY, DATE Accumark (703) 378-0100; November 2018

CROSS SECTIONS

SCALE 1 IN. = 10 FT

DESIGN 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 ROUTE	STATE PROJECT	SHEET NO.
	VA.	621	0621-076-265	17



Station 122+00.00 To Station 122+50.00

PROJECT	SHEET NO.
0621-076-265	17

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

P.H. PLANS

3/22/2019
1:56:04 PM

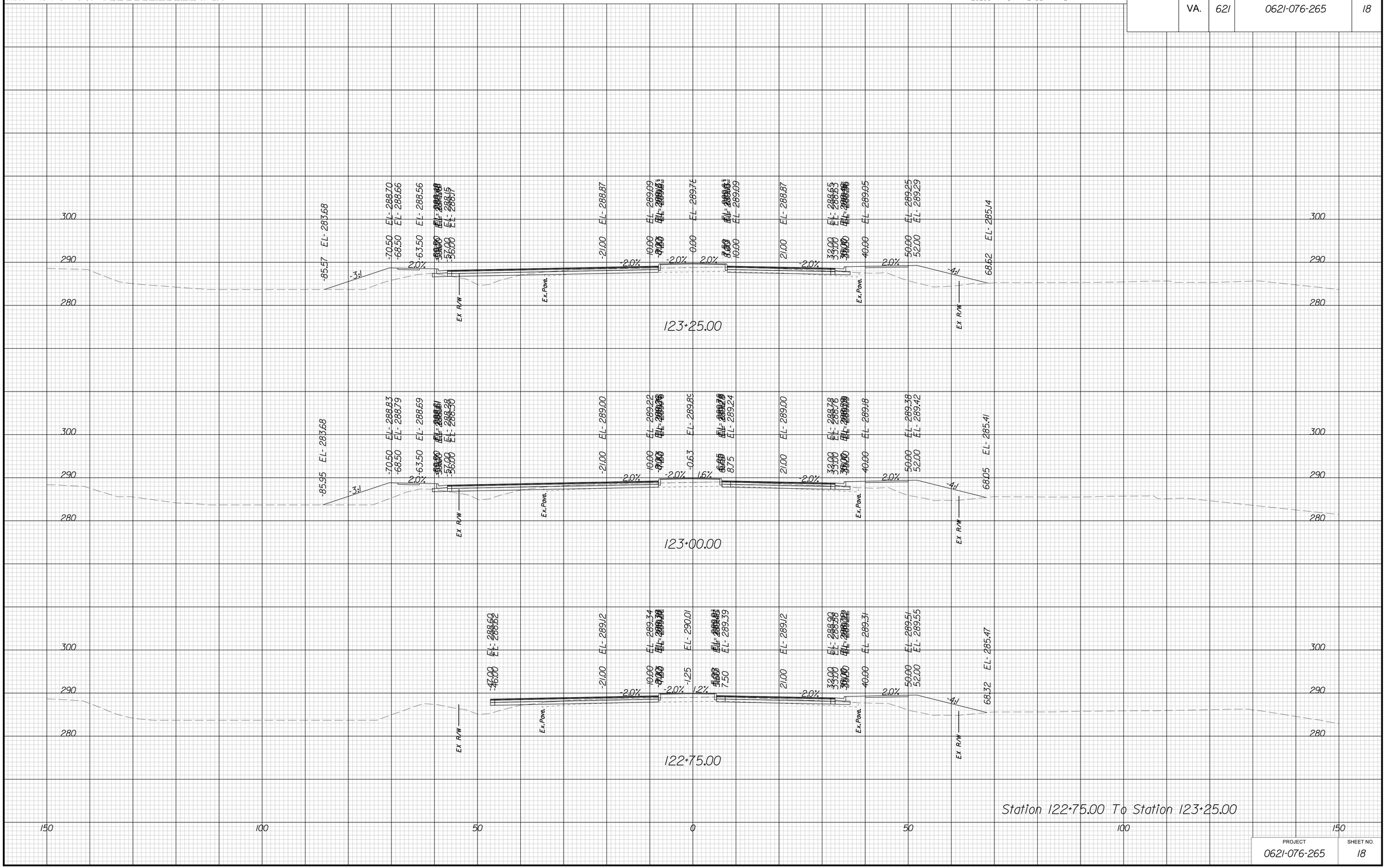
PROJECT MANAGER VDOT: Kristian Shammout, P.E. (703) 792-7193
SURVEYED BY, DATE HDA: Ethan Cipcetti LS (703) 334-3302; September 2018
DESIGN BY HDA: Mark A. Gum, P.E. (703) 334-3288
SUBSURFACE UTILITY BY, DATE Accumark (703) 378-0100; November 2018

CROSS SECTIONS

SCALE 1 IN. = 10 FT

DESIGN 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 ROUTE	STATE PROJECT	SHEET NO.
	VA.	621	0621-076-265	18



Station 122+75.00 To Station 123+25.00

PROJECT	SHEET NO.
0621-076-265	18

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

P.H. PLANS

3/22/2019
1:56:08 PM

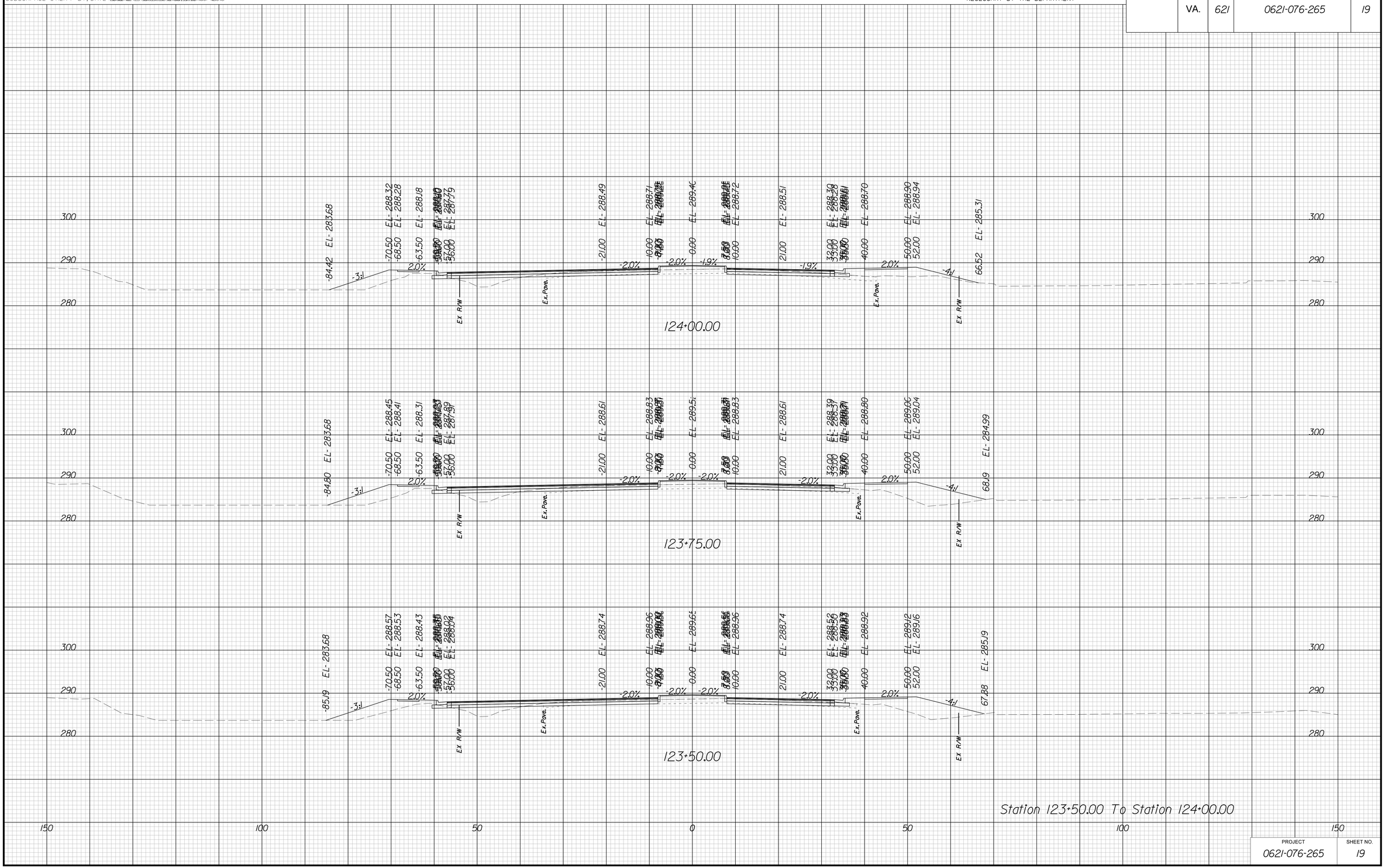
PROJECT MANAGER VDOT: Kristian Shammout, P.E. (703) 792-7193
SURVEYED BY, DATE HDA: Ethan Cipcelli LS (703) 334-3302 September 2018
DESIGN BY HDA: Mark A. Gum, P.E. (703) 334-3288
SUBSURFACE UTILITY BY, DATE Accumark (703) 378-0100 November 2018

CROSS SECTIONS

SCALE 1 IN. = 10 FT

DESIGN 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 ROUTE	STATE PROJECT	SHEET NO.
	VA.	621	0621-076-265	19



PROJECT	SHEET NO.
0621-076-265	19

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

P.H. PLANS

3/22/2019
1:56:12 PM

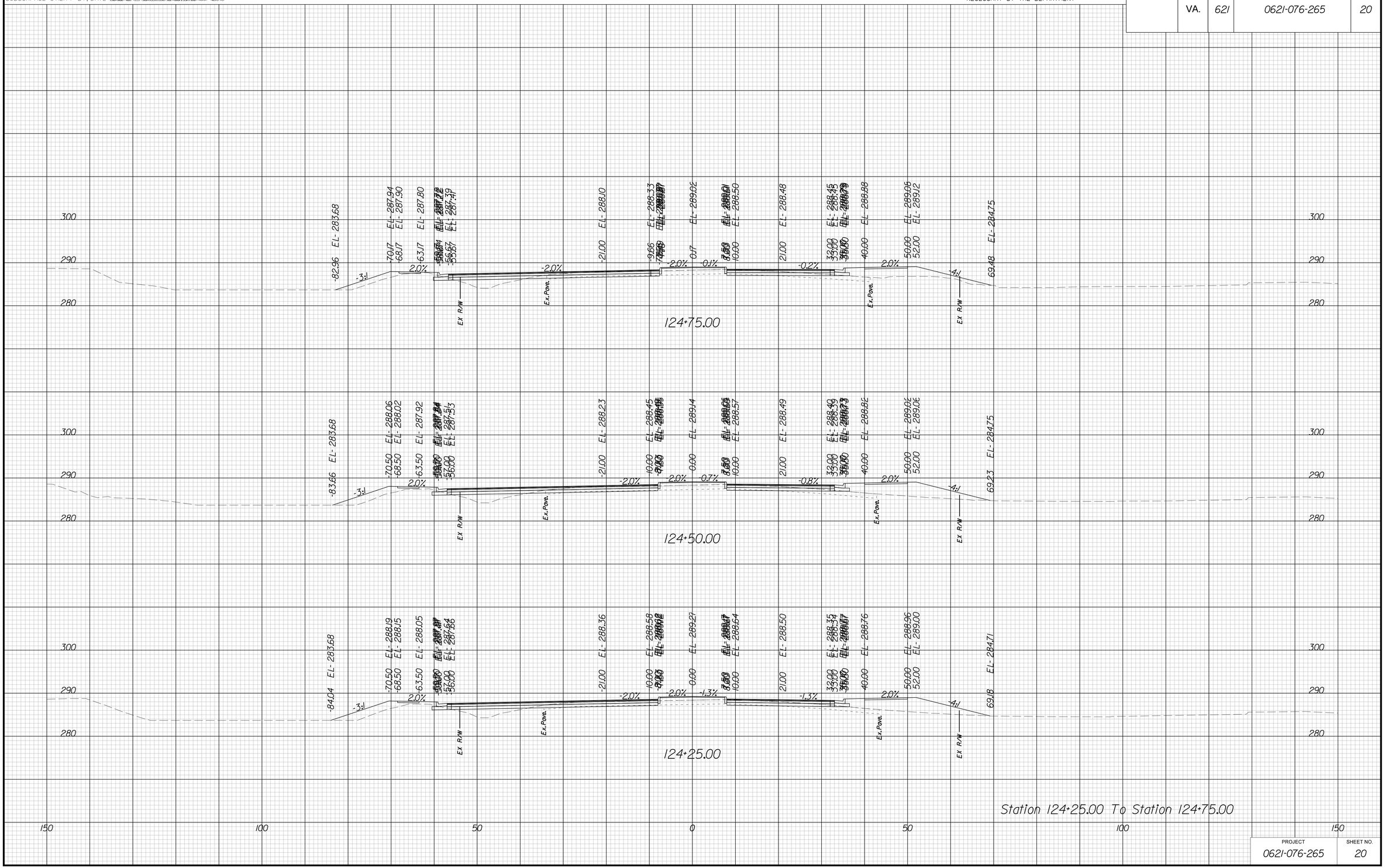
PROJECT MANAGER VDOT: Kristian Shammout, P.E. (703) 792-7193
SURVEYED BY, DATE HDA: Ethan Cipcetti LS (703) 334-3302 September 2018
DESIGN BY HDA: Mark A. Gum, P.E. (703) 334-3288
SUBSURFACE UTILITY BY, DATE Accumark (703) 378-0100 November 2018

CROSS SECTIONS

SCALE 1 IN. = 10 FT

DESIGN 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 ROUTE	STATE PROJECT	SHEET NO.
	VA.	621	0621-076-265	20



PROJECT	SHEET NO.
0621-076-265	20

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

P.H. PLANS

3/22/2019
1:56:17 PM

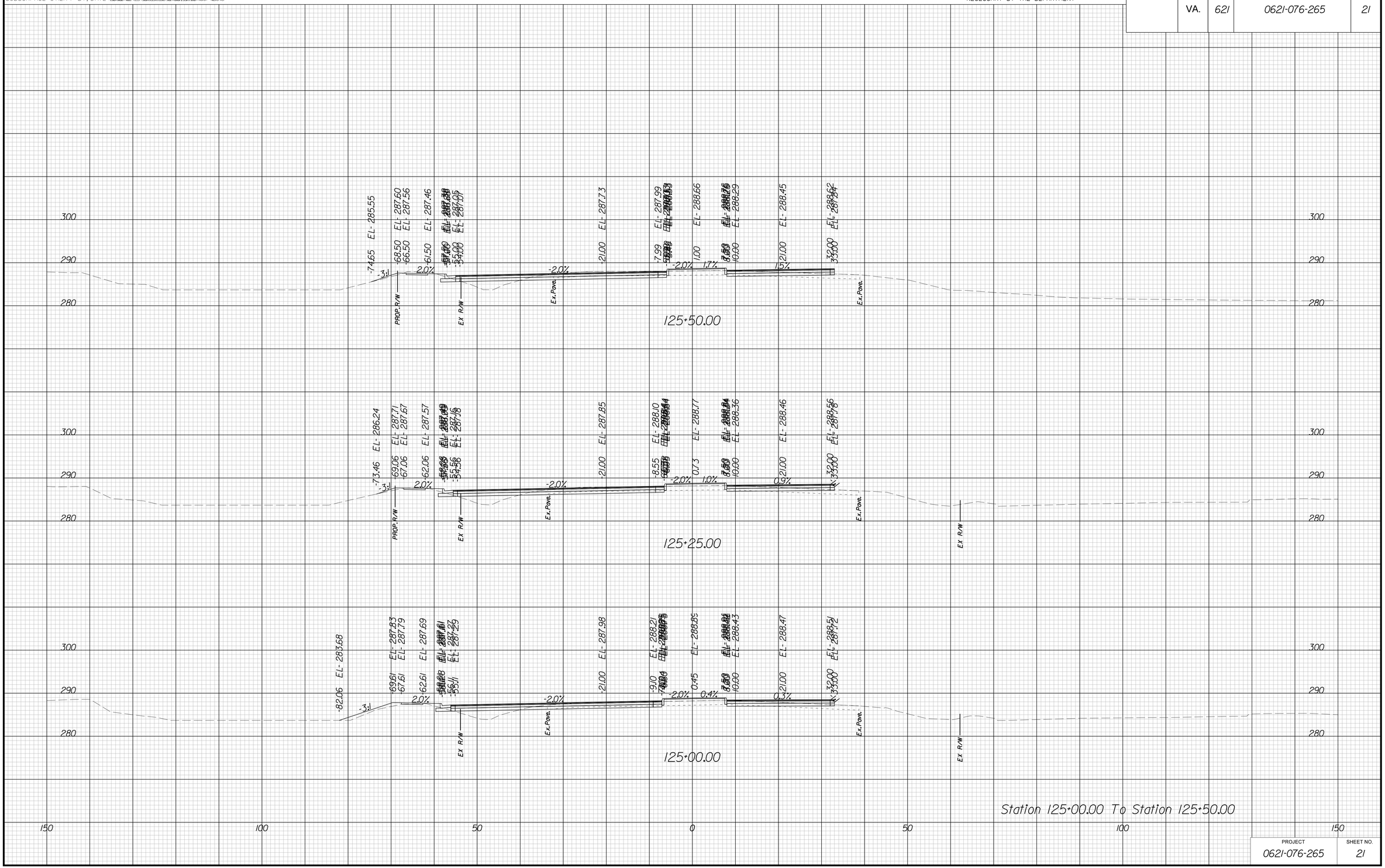
PROJECT MANAGER VDOT: Kristian Shammout, P.E. (703) 792-7193
SURVEYED BY, DATE HDA: Ethan Cipetello LS (703) 334-3302 September 2018
DESIGN BY HDA: Mark A. Gum, P.E. (703) 334-3288
SUBSURFACE UTILITY BY, DATE Accumark (703) 378-0100 November 2018

CROSS SECTIONS

SCALE 1 IN. = 10 FT

DESIGN 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 ROUTE	STATE PROJECT	SHEET NO.
	VA.	621	0621-076-265	21



PROJECT	SHEET NO.
0621-076-265	21

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

P.H. PLANS

3/22/2019
1:56:22 PM

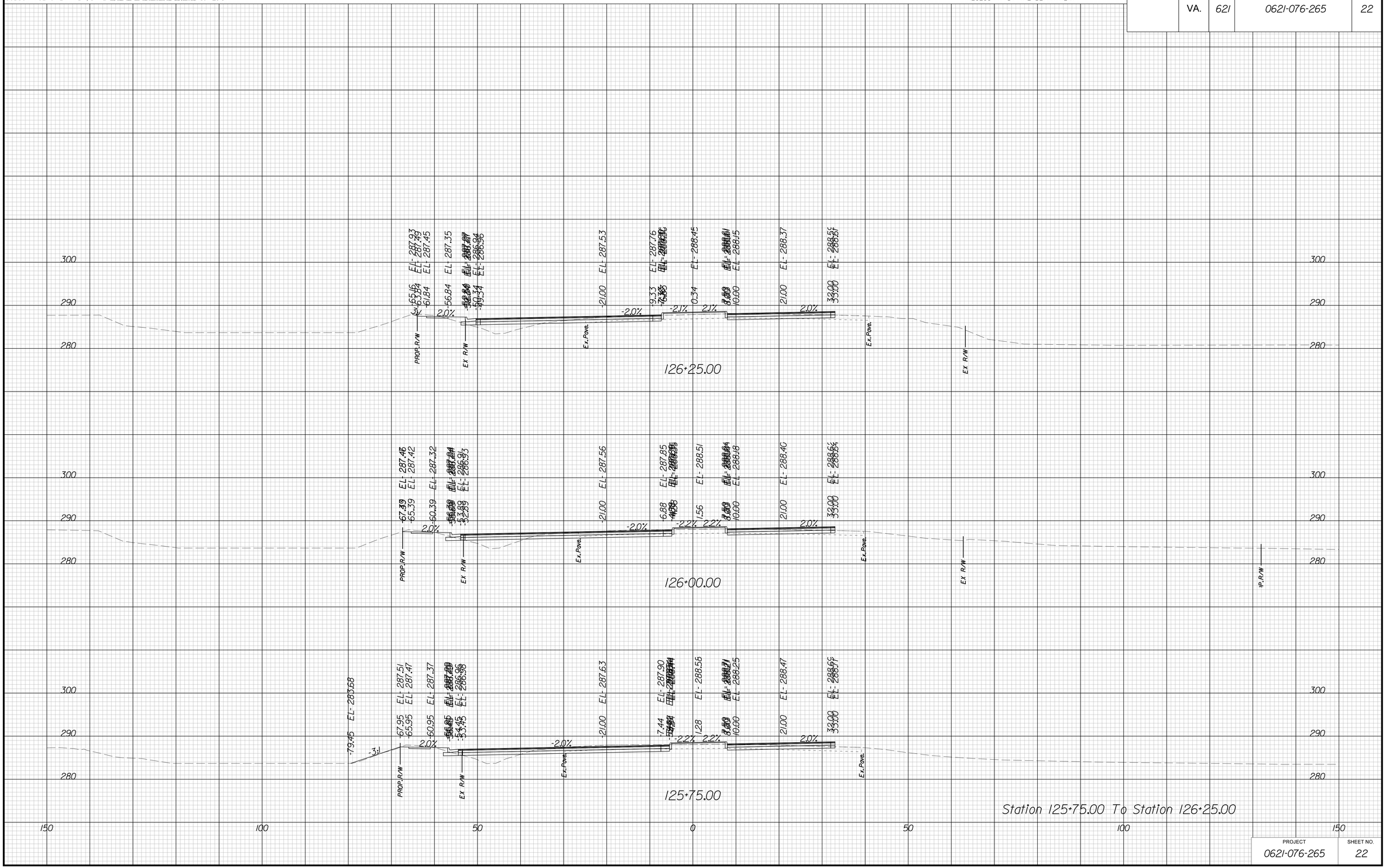
PROJECT MANAGER VDOT: Kristian Shammout, P.E. (703) 792-7193
SURVEYED BY, DATE HDA: Ethan Cipcetti LS (703) 334-3302; September 2018
DESIGN BY HDA: Mark A. Gum, P.E. (703) 334-3288
SUBSURFACE UTILITY BY, DATE Accumark (703) 378-0100; November 2018

CROSS SECTIONS

SCALE 1 IN. = 10 FT

DESIGN 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 ROUTE	STATE PROJECT	SHEET NO.
	VA.	621	0621-076-265	22



PROJECT	SHEET NO.
0621-076-265	22

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

P.H. PLANS

3/22/2019
1:56:26 PM

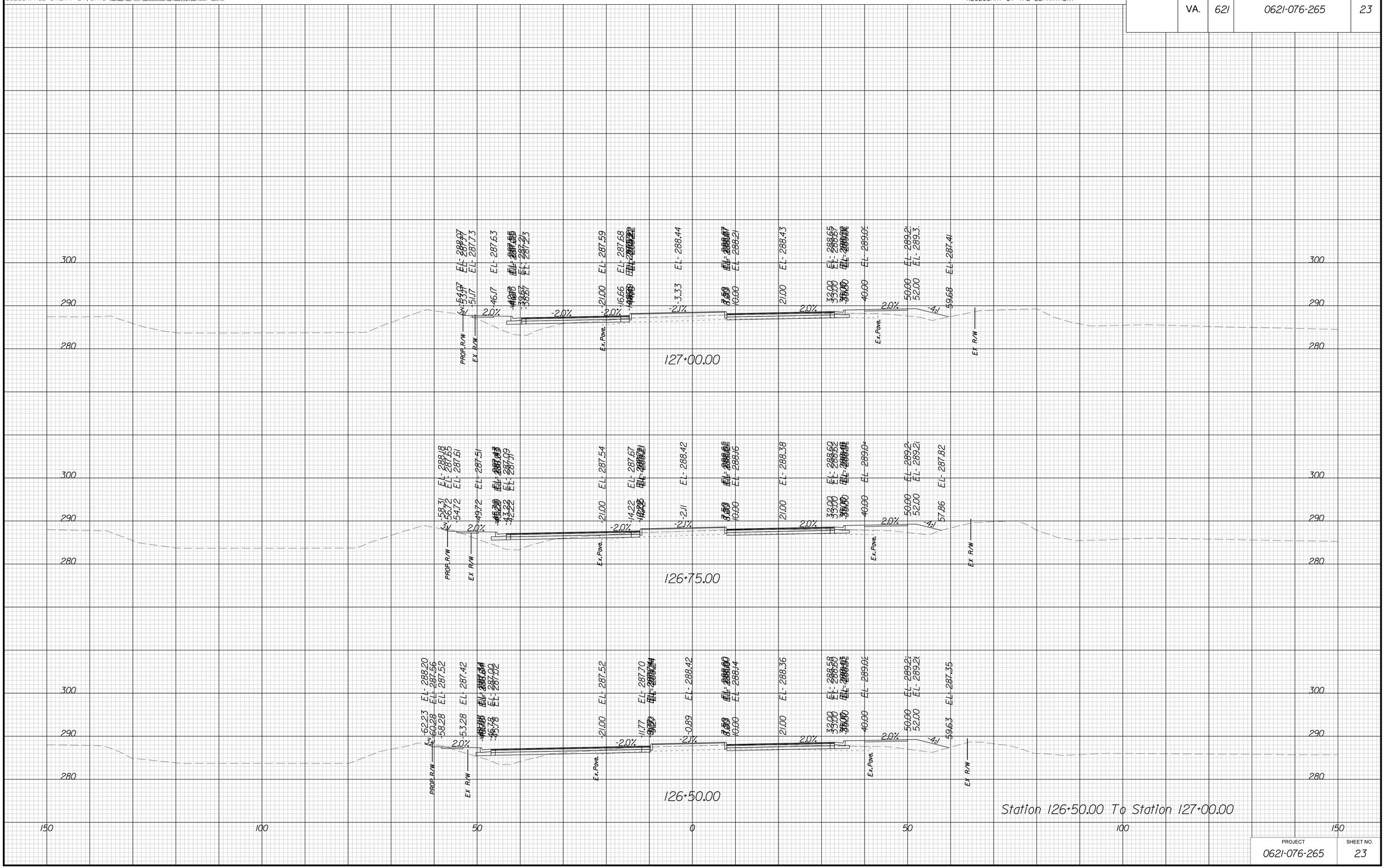
PROJECT MANAGER VDOT: Khatab Shammout, P.E. (703) 792-7193
SURVEYED BY, DATE HDA: Efren Cipriano LS (703) 334-3302 September 2018
DESIGN BY HDA: Mark A. Gum, P.E. (703) 334-3288
SUBSURFACE UTILITY BY, DATE Accumark (703) 378-0100 November 2018

CROSS SECTIONS

SCALE 1 IN. = 10 FT

DESIGN 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 ROUTE	STATE PROJECT	SHEET NO.
	VA.	621	0621-076-265	23



Station 126+50.00 To Station 127+00.00

PROJECT	SHEET NO.
0621-076-265	23

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

P.H. PLANS

3/22/2019
1:56:31 PM

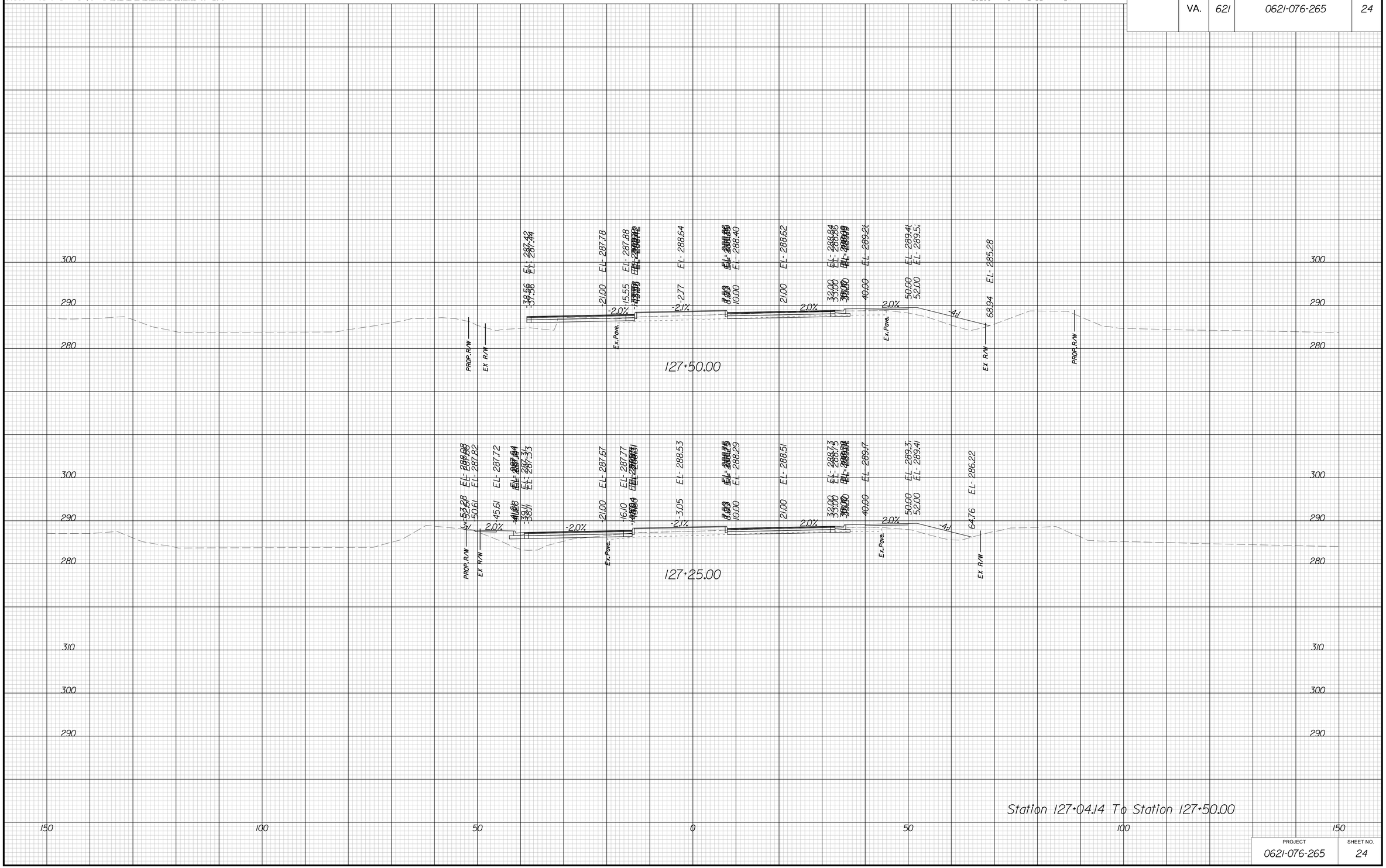
PROJECT MANAGER VDOT: Khatab Shammout, P.E. (703) 792-7193
SURVEYED BY, DATE HDA: Ethan Cipetello LS (703) 334-3302 September 2018
DESIGN BY HDA: Mark A. Gum, P.E. (703) 334-3288
SUBSURFACE UTILITY BY, DATE Accumark (703) 378-0100 November 2018

CROSS SECTIONS

SCALE 1 IN. = 10 FT

DESIGN 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 ROUTE	STATE PROJECT	SHEET NO.
	VA.	621	0621-076-265	24



PROJECT	SHEET NO.
0621-076-265	24

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

P.H. PLANS

3/22/2019
1:56:36 PM

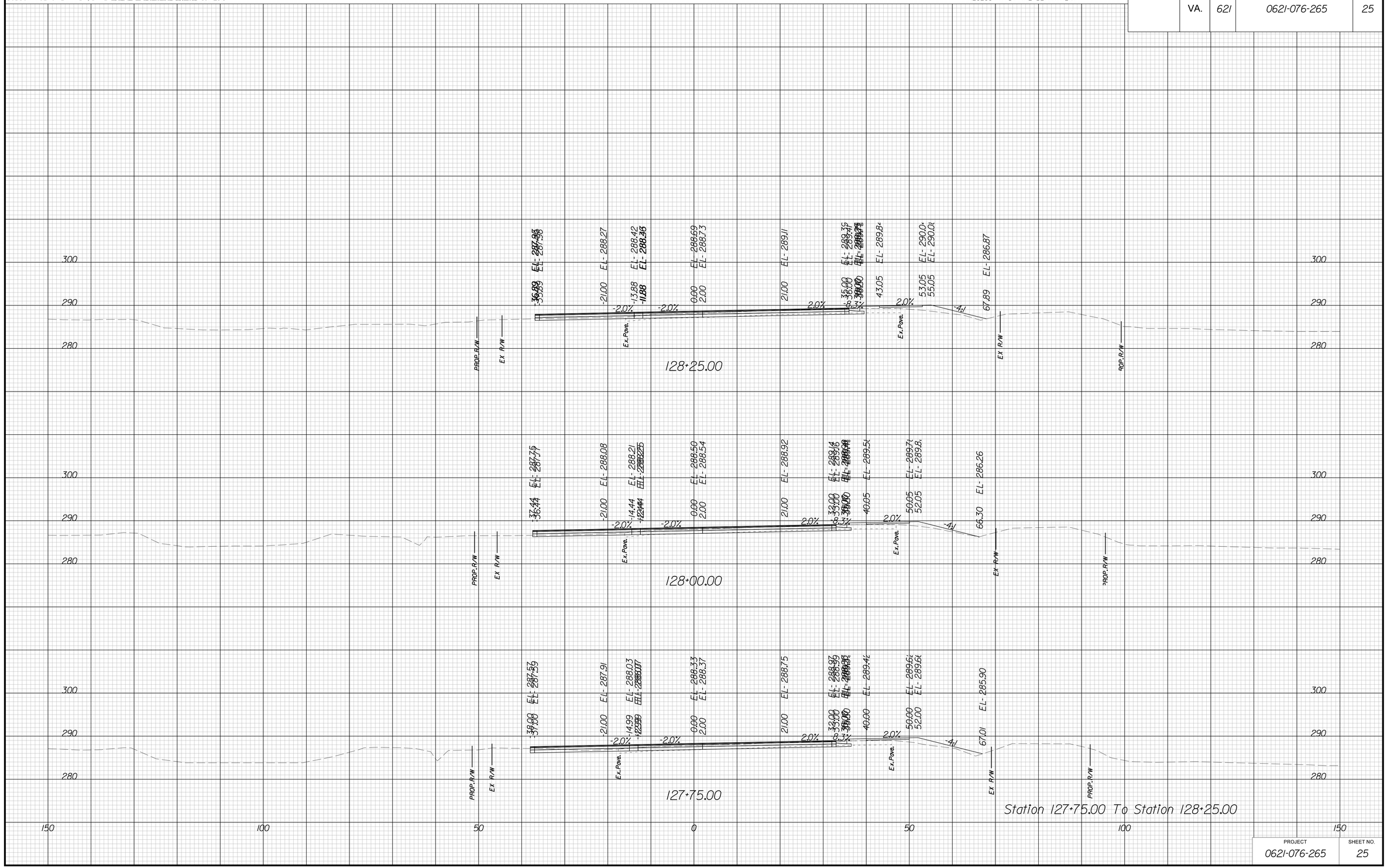
PROJECT MANAGER VDOT: Kristian Shammout, P.E. (703) 792-7193
SURVEYED BY, DATE HDA: Ethan Cipetello LS (703) 334-3302 September 2018
DESIGN BY HDA: Mark A. Gum, P.E. (703) 334-3288
SUBSURFACE UTILITY BY, DATE Accumark (703) 378-0100 November 2018

CROSS SECTIONS

SCALE 1 IN. = 10 FT

DESIGN 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 ROUTE	STATE PROJECT	SHEET NO.
	VA.	621	0621-076-265	25



Station 127+75.00 To Station 128+25.00

PROJECT	SHEET NO.
0621-076-265	25

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

P.H. PLANS

3/22/2019
1:56:40 PM

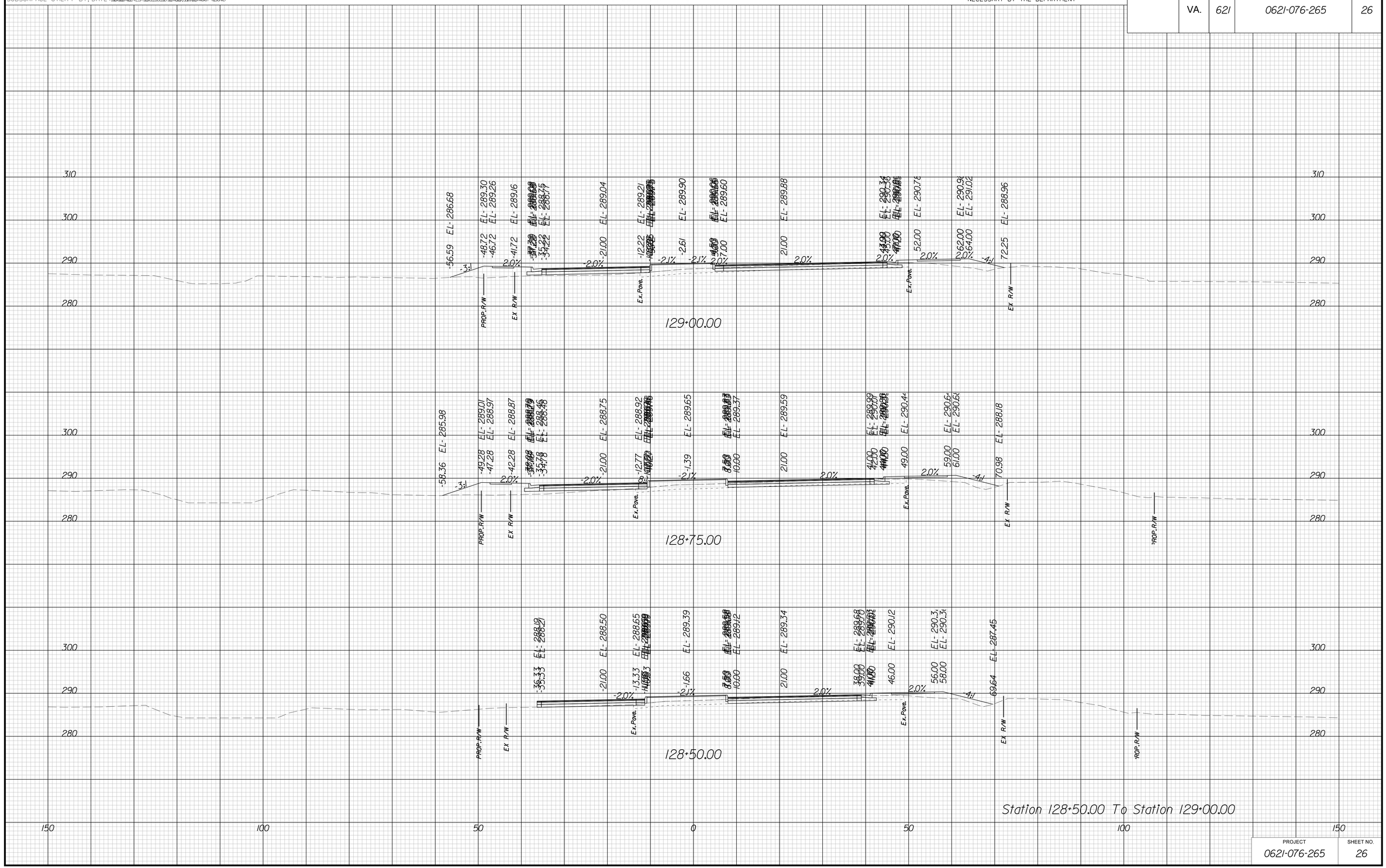
PROJECT MANAGER VDOT: Khatab Shammout, P.E. (703) 792-7193
SURVEYED BY, DATE HDA: Ethan Cipetello LS (703) 334-3302 September 2018
DESIGN BY HDA: Mark A. Gum, P.E. (703) 334-3288
SUBSURFACE UTILITY BY, DATE Accumark (703) 378-0100 November 2018

CROSS SECTIONS

SCALE 1 IN. = 10 FT

DESIGN 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 ROUTE	STATE PROJECT	SHEET NO.
	VA.	621	0621-076-265	26



PROJECT	SHEET NO.
0621-076-265	26

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

P.H. PLANS

3/22/2019
1:56:45 PM

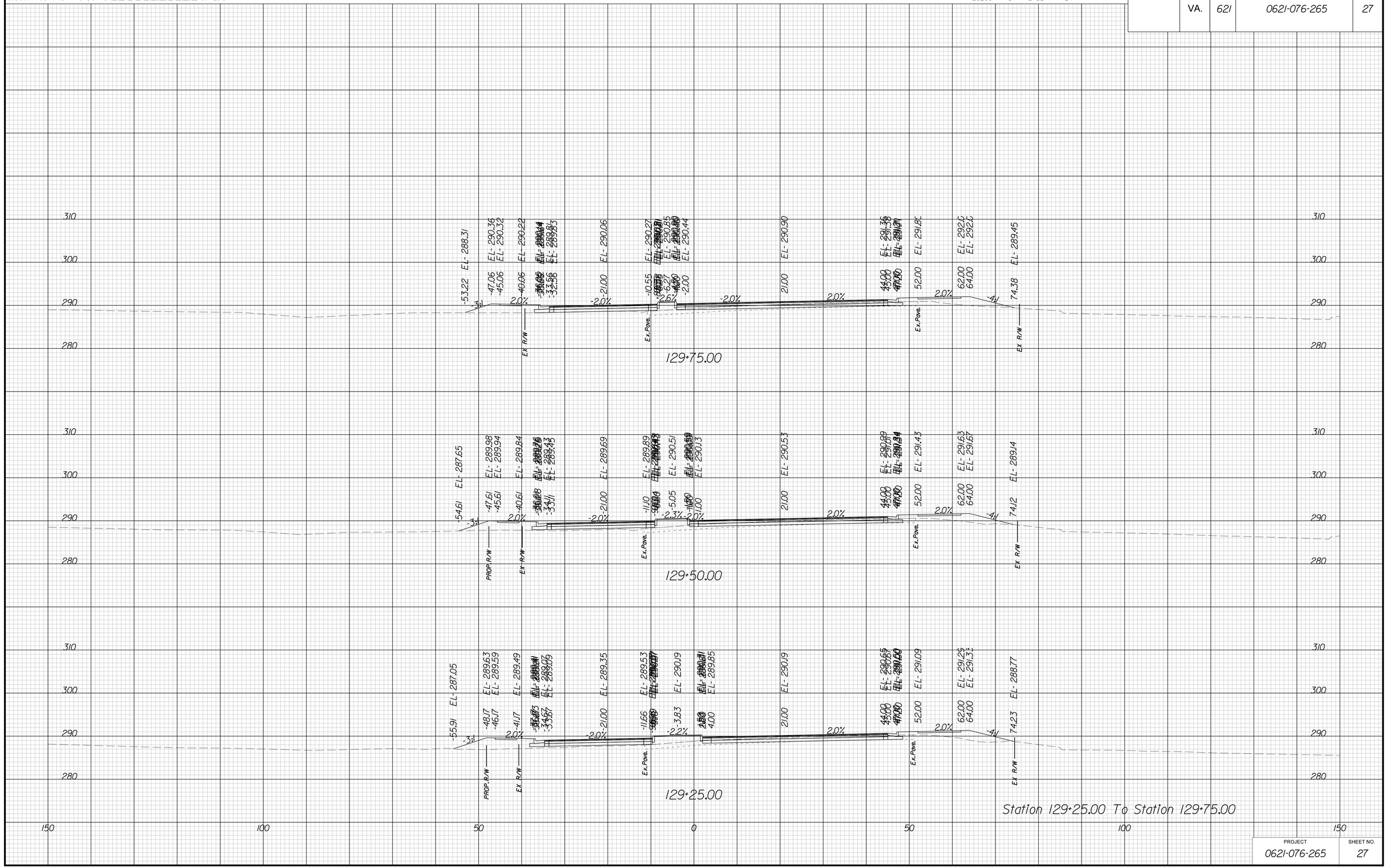
PROJECT MANAGER VDOT: Khatab Shammout, P.E. (703) 792-7193
SURVEYED BY, DATE HDA: Efren Cipriano LLS (703) 334-3302; September 2018
DESIGN BY HDA: Mark A. Gum, P.E. (703) 334-3288
SUBSURFACE UTILITY BY, DATE Accumark (703) 378-0100; November 2018

CROSS SECTIONS

SCALE 1 IN. = 10 FT

DESIGN 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 ROUTE	STATE PROJECT	SHEET NO.
	VA.	621	0621-076-265	27



PROJECT	SHEET NO.
0621-076-265	27

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

P.H. PLANS

3/22/2019
1:56:49 PM

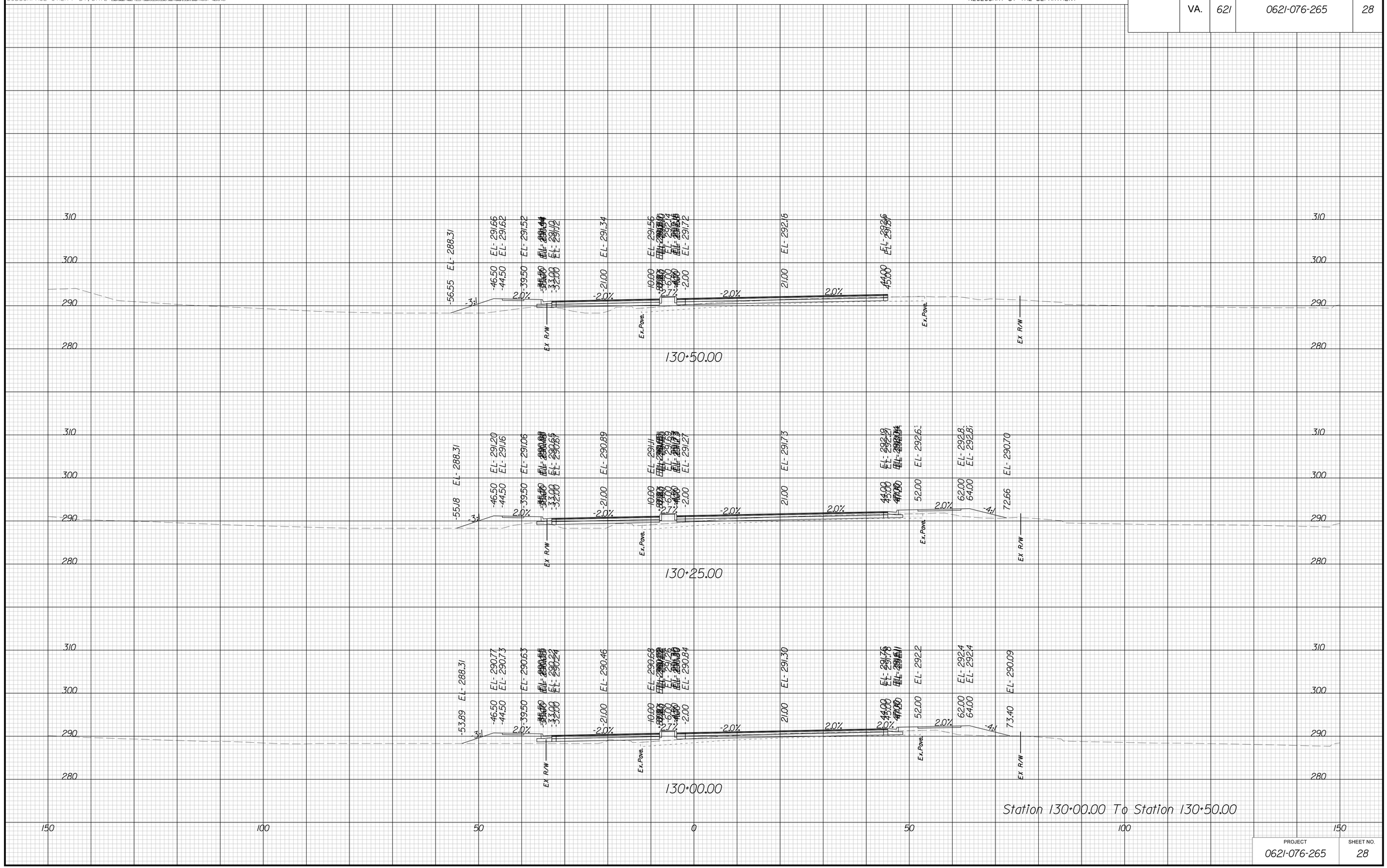
PROJECT MANAGER VDOT: Kristian Shammout, P.E. (703) 792-7193
SURVEYED BY, DATE HDA: Ethan Cipetello LS (703) 334-3302 September 2018
DESIGN BY HDA: Mark A. Gum, P.E. (703) 334-3288
SUBSURFACE UTILITY BY, DATE Accumark (703) 378-0100 November 2018

CROSS SECTIONS

SCALE 1 IN. = 10 FT

DESIGN 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 ROUTE	STATE PROJECT	SHEET NO.
	VA.	621	0621-076-265	28



PROJECT	SHEET NO.
0621-076-265	28

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

P.H. PLANS

3/22/2019
1:56:54 PM

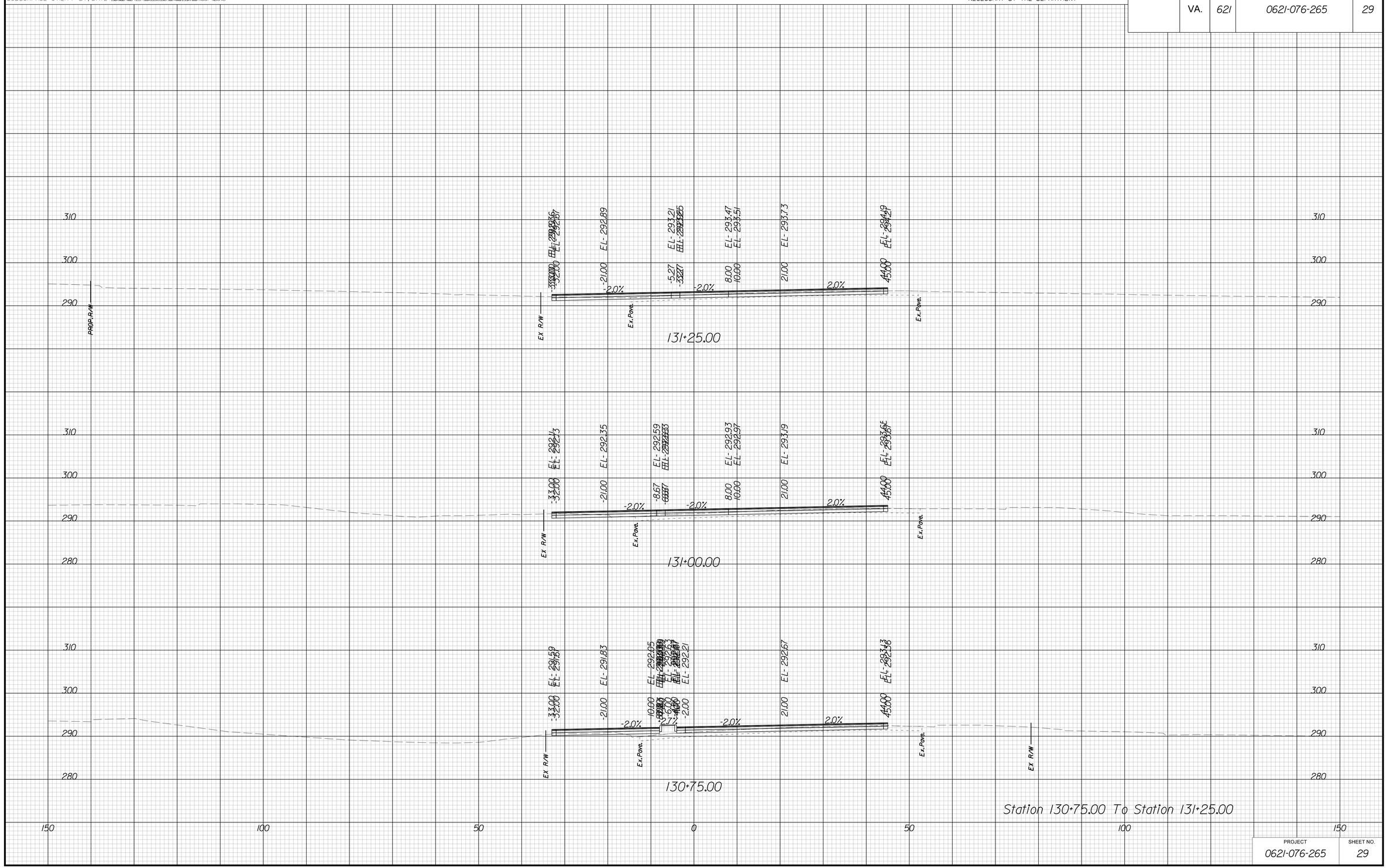
PROJECT MANAGER FHWA/VDOT: Kristian Shammout, P.E. (703) 792-7193
SURVEYED BY, DATE HDA: Efren Cepeda LS (703) 334-3302; September 2018
DESIGN BY HDA: Mark A. Gum, P.E. (703) 334-3288
SUBSURFACE UTILITY BY, DATE Accumark (703) 378-0100; November 2018

CROSS SECTIONS

SCALE 1 IN. = 10 FT

DESIGN 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 ROUTE	STATE PROJECT	SHEET NO.
	VA.	621	0621-076-265	29



PROJECT	SHEET NO.
0621-076-265	29

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

P.H. PLANS

3/22/2019
1:56:58 PM

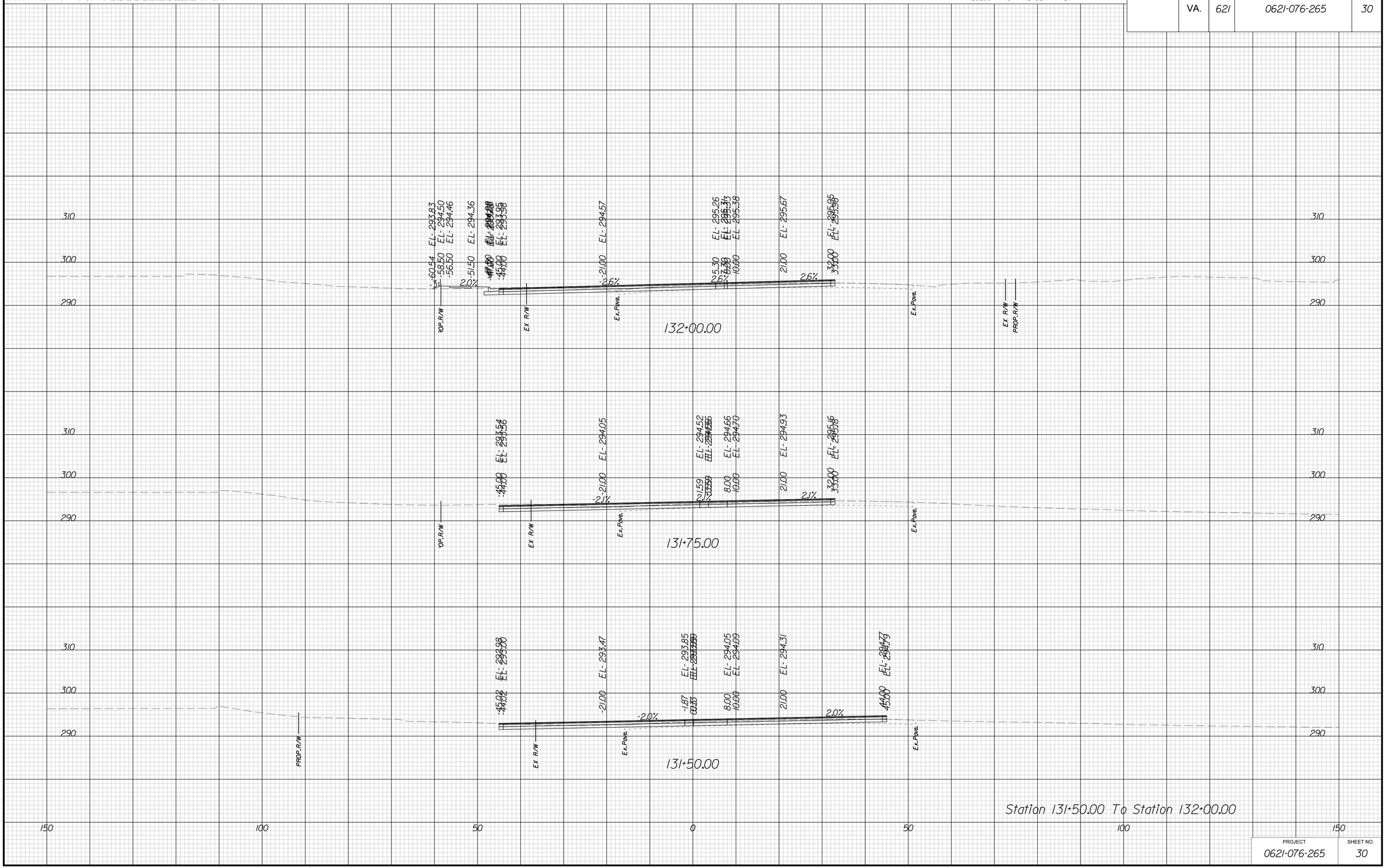
PROJECT MANAGER VDOT: Kristian Shammout, P.E. (703) 792-7195
SURVEYED BY, DATE HDA: Ethan Cipcello LS (703) 334-3302 September 2018
DESIGN BY HDA: Mark A. Gum, P.E. (703) 334-3288
SUBSURFACE UTILITY BY, DATE Accumark (703) 378-0100 November 2018

CROSS SECTIONS

SCALE 1 IN. = 10 FT

DESIGN 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 ROUTE	STATE PROJECT	SHEET NO.
	VA.	621	0621-076-265	30



PROJECT	SHEET NO.
0621-076-265	30

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

P.H. PLANS

3/22/2019
1:57:03 PM

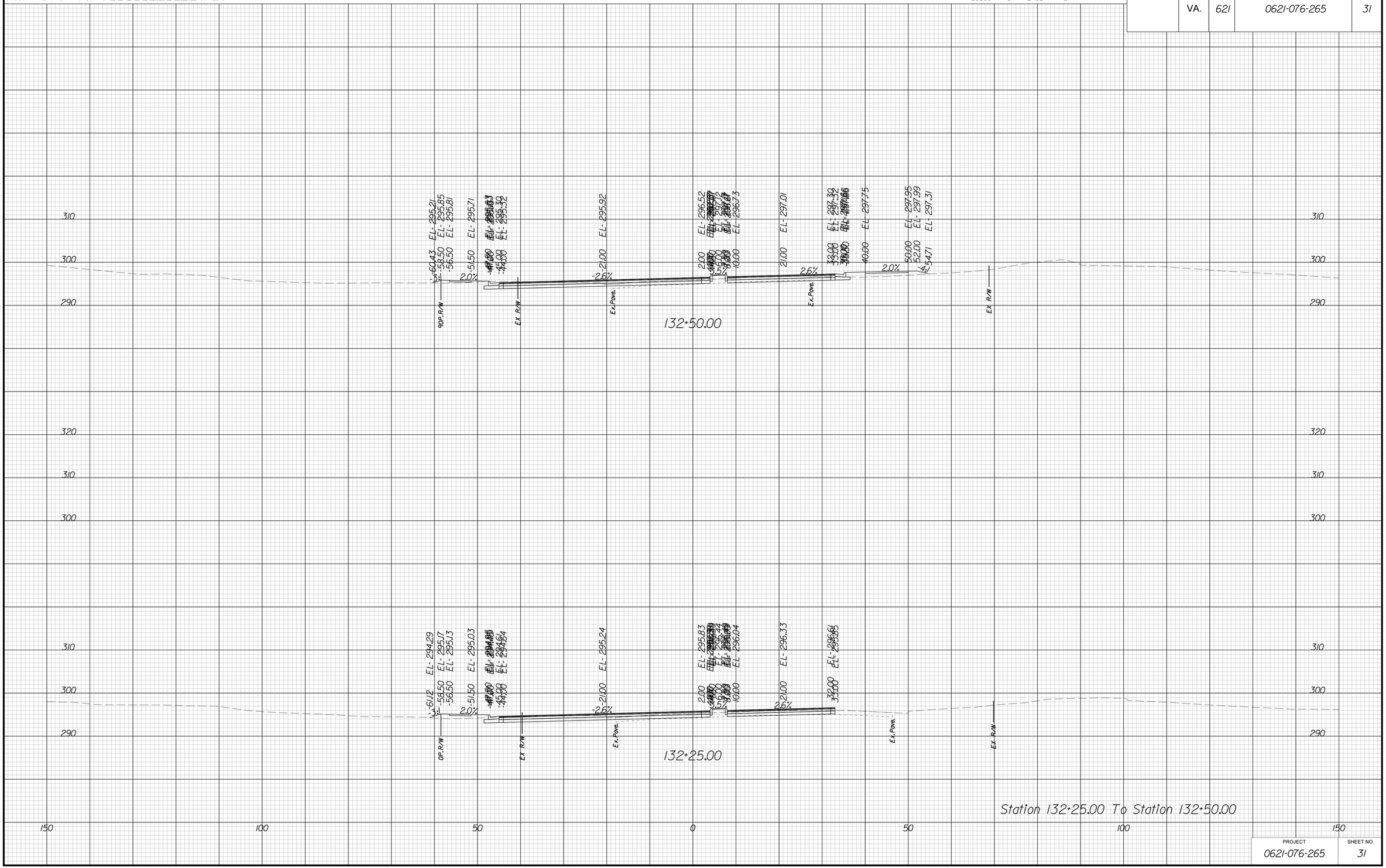
PROJECT MANAGER VDOT: Kristian Shammout, P.E. (703) 792-7195
SURVEYED BY, DATE HDA: Ryan Cipcetti LS (703) 334-3302 September 2018
DESIGN BY HDA: Mark A. Gum, P.E. (703) 334-3288
SUBSURFACE UTILITY BY, DATE Accumark (703) 378-0100 November 2018

CROSS SECTIONS

SCALE 1 IN. = 10 FT

DESIGN 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 ROUTE	STATE PROJECT	SHEET NO.
	VA.	621	0621-076-265	31



PROJECT	SHEET NO.
0621-076-265	31

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

P.H. PLANS

3/22/2019
1:57:08 PM

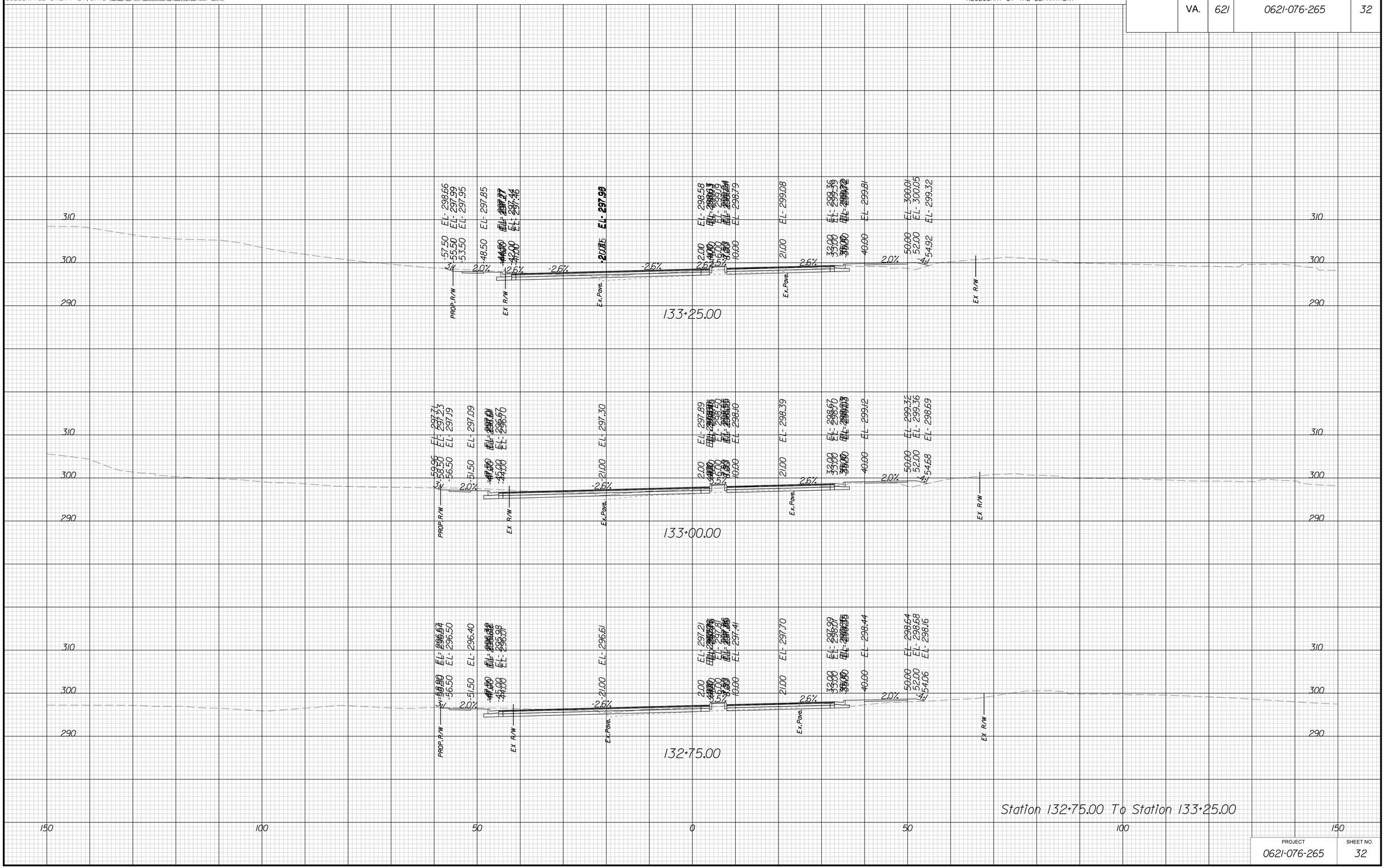
PROJECT MANAGER VDOT: Kristian Shammout, P.E. (703) 792-7193
SURVEYED BY, DATE HDA: Ethan Cipcetti LS (703) 334-3302 September 2018
DESIGN BY HDA: Mark A. Gum, P.E. (703) 334-3288
SUBSURFACE UTILITY BY, DATE Accumark (703) 378-0100 November 2018

CROSS SECTIONS

SCALE 1 IN. = 10 FT

DESIGN 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 ROUTE	STATE PROJECT	SHEET NO.
	VA.	621	0621-076-265	32



Station 132+75.00 To Station 133+25.00

PROJECT	SHEET NO.
0621-076-265	32

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

P.H. PLANS

3/22/2019
1:57:12 PM

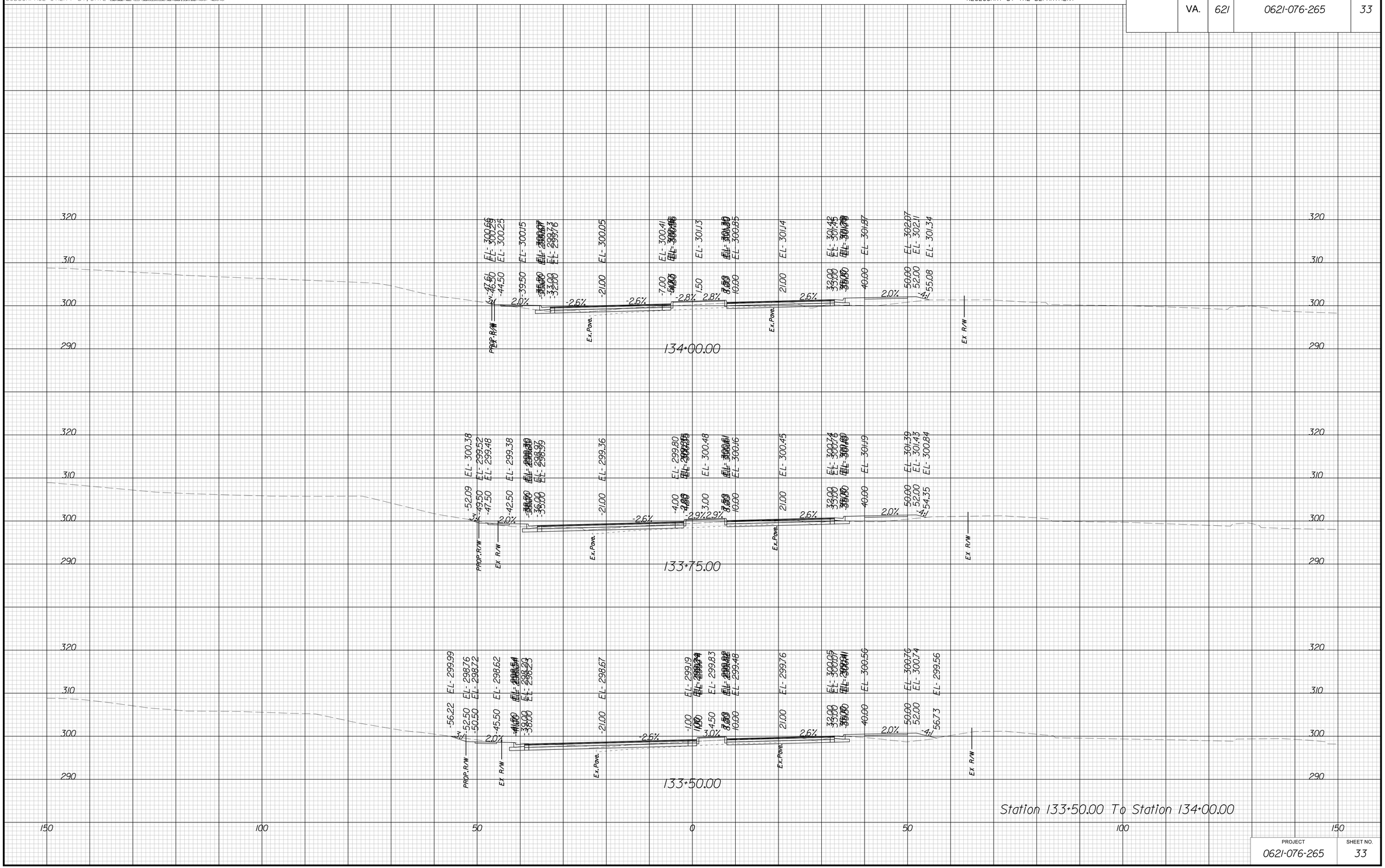
PROJECT MANAGER VDOT: Khatab Shammout, P.E. (703) 792-7193
SURVEYED BY, DATE HDA: Ethan Cipetello LS (703) 334-3302 September 2018
DESIGN BY HDA: Mark A. Gum, P.E. (703) 334-3288
SUBSURFACE UTILITY BY, DATE Accumark (703) 378-0100 November 2018

CROSS SECTIONS

SCALE 1 IN. = 10 FT

DESIGN 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 ROUTE	STATE PROJECT	SHEET NO.
	VA.	621	0621-076-265	33



PROJECT	SHEET NO.
0621-076-265	33

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

P.H. PLANS

3/22/2019
1:57:17 PM

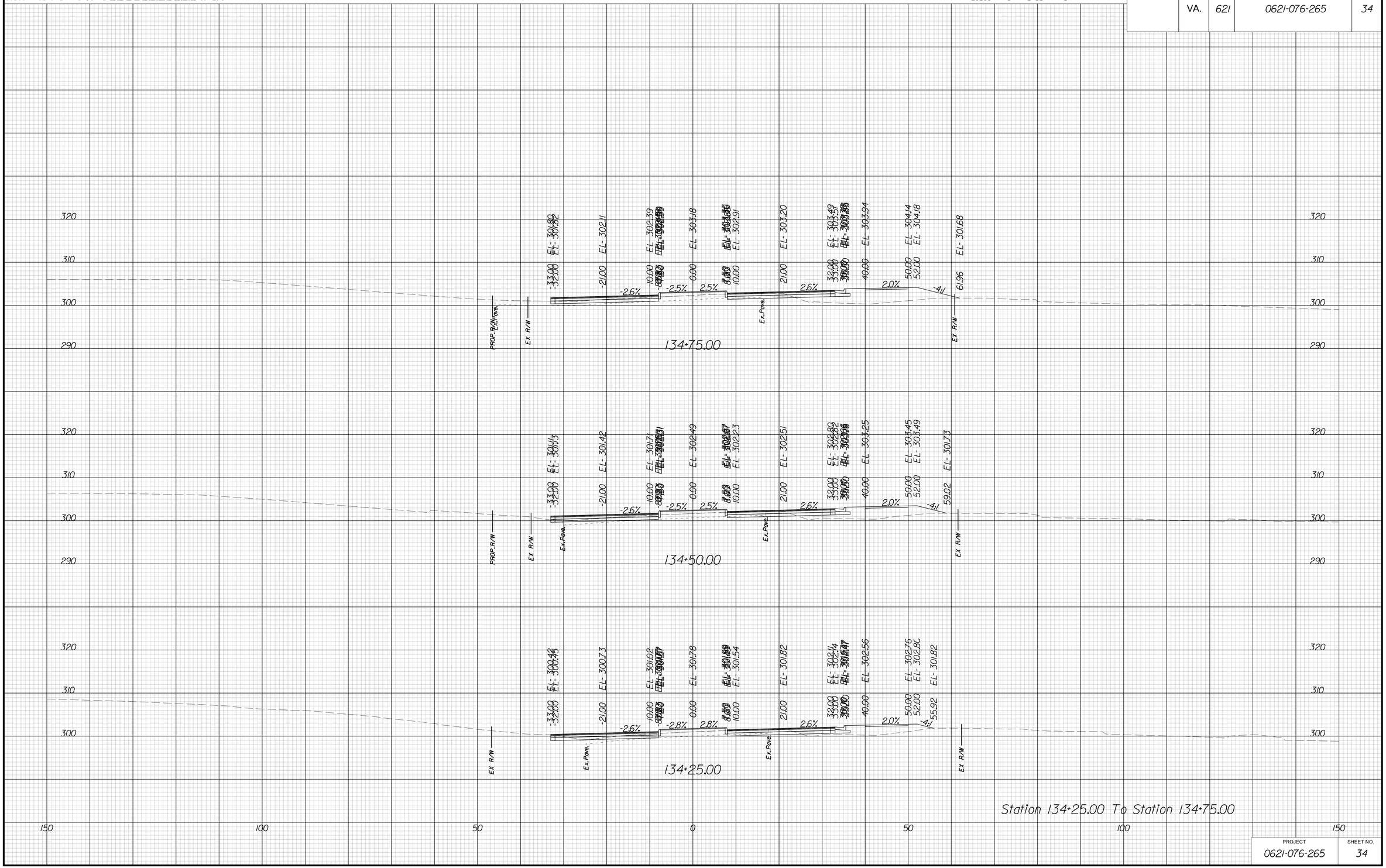
PROJECT MANAGER VDOT: Kristian Shammout, P.E. (703) 792-7193
SURVEYED BY, DATE HDA: Efren Cipriano LLS (703) 334-3302 September 2018
DESIGN BY HDA: Mark A. Gum, P.E. (703) 334-3288
SUBSURFACE UTILITY BY, DATE Accumark (703) 378-0100 November 2018

CROSS SECTIONS

SCALE 1 IN. = 10 FT

DESIGN 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 ROUTE	STATE PROJECT	SHEET NO.
	VA.	621	0621-076-265	34



PROJECT	SHEET NO.
0621-076-265	34

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

P.H. PLANS

3/22/2019
1:57:22 PM

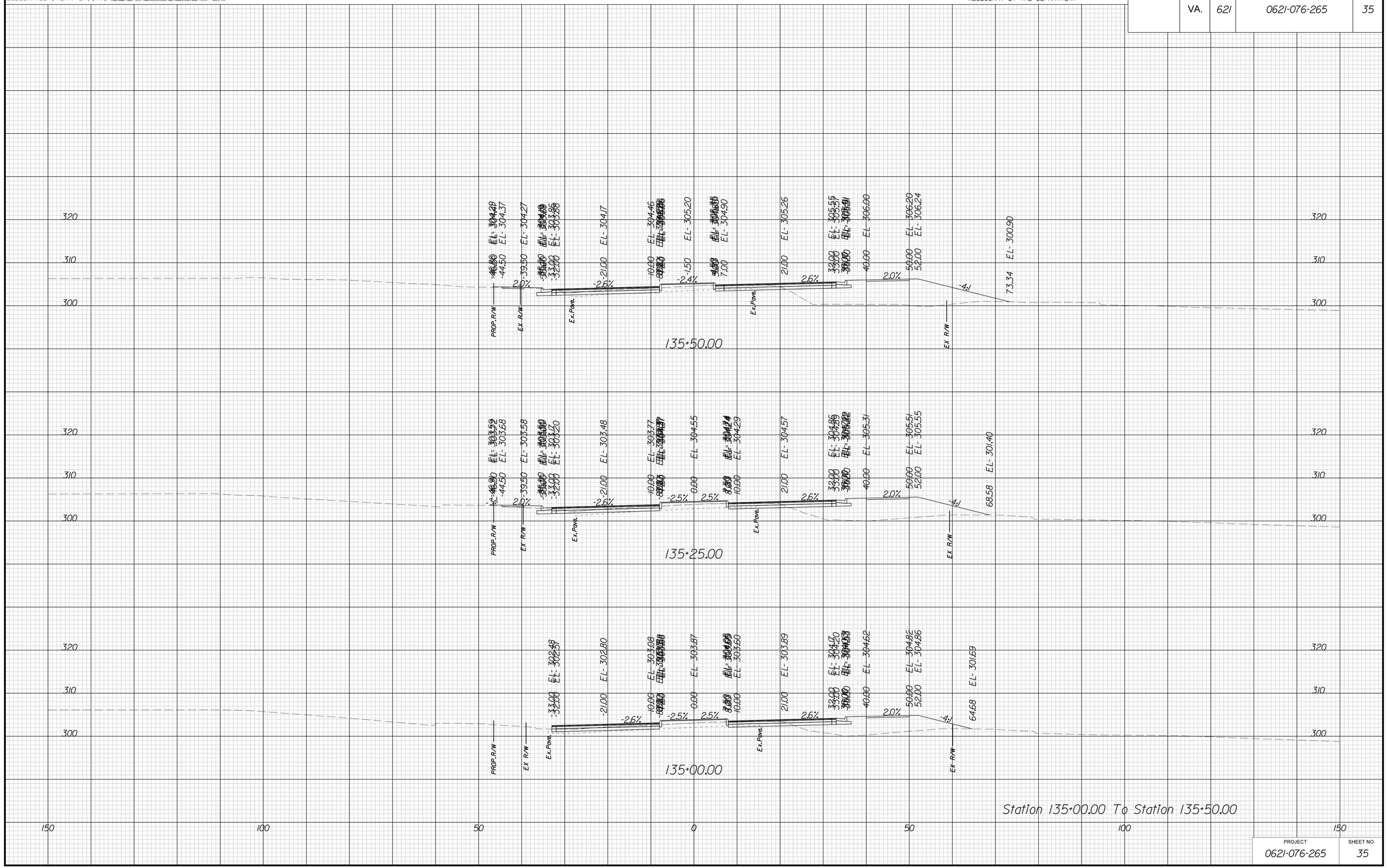
PROJECT MANAGER VDOT: Khatab Shammout, P.E. (703) 792-7193
SURVEYED BY, DATE HDA: Efren Cepeda LLS (703) 334-3302 September 2018
DESIGN BY HDA: Mark A. Gum, P.E. (703) 334-3288
SUBSURFACE UTILITY BY, DATE Accumark (703) 378-0100 November 2018

CROSS SECTIONS

SCALE 1 IN. = 10 FT

DESIGN 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 ROUTE	STATE PROJECT	SHEET NO.
	VA.	621	0621-076-265	35



PROJECT	SHEET NO.
0621-076-265	35

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

P.H. PLANS

3/22/2019
1:57:26 PM

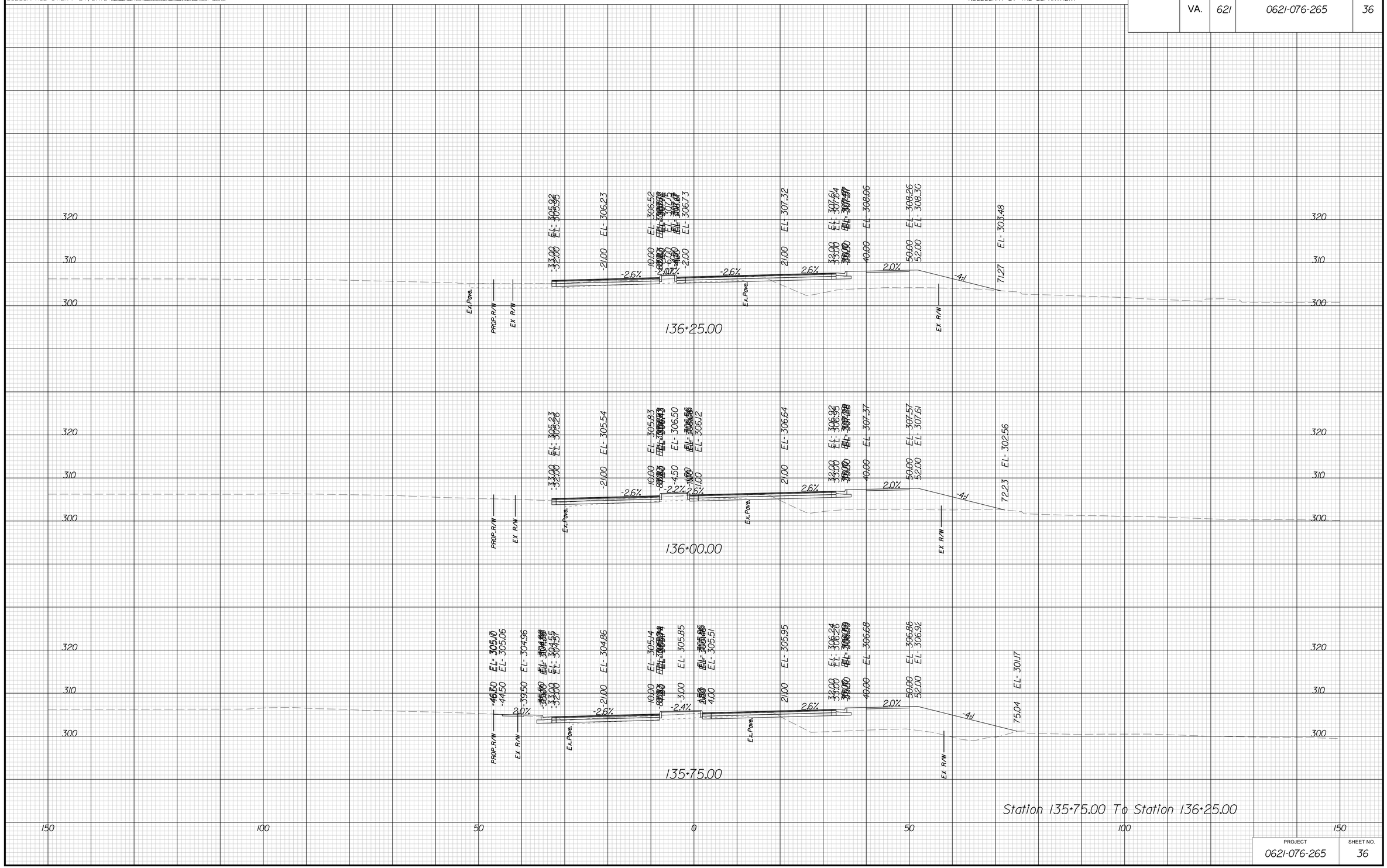
PROJECT MANAGER VDOT: Kristian Shammout, P.E. (703) 792-7195
SURVEYED BY, DATE HDA: Ethan Cipcello LS (703) 334-3302 September 2018
DESIGN BY HDA: Mark A. Gum, P.E. (703) 334-3288
SUBSURFACE UTILITY BY, DATE Accumark (703) 378-0100 November 2018

CROSS SECTIONS

SCALE 1 IN. = 10 FT

DESIGN 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 ROUTE	STATE PROJECT	SHEET NO.
	VA.	621	0621-076-265	36



Station 135+75.00 To Station 136+25.00

PROJECT	SHEET NO.
0621-076-265	36

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

P.H. PLANS

3/22/2019
1:57:31 PM

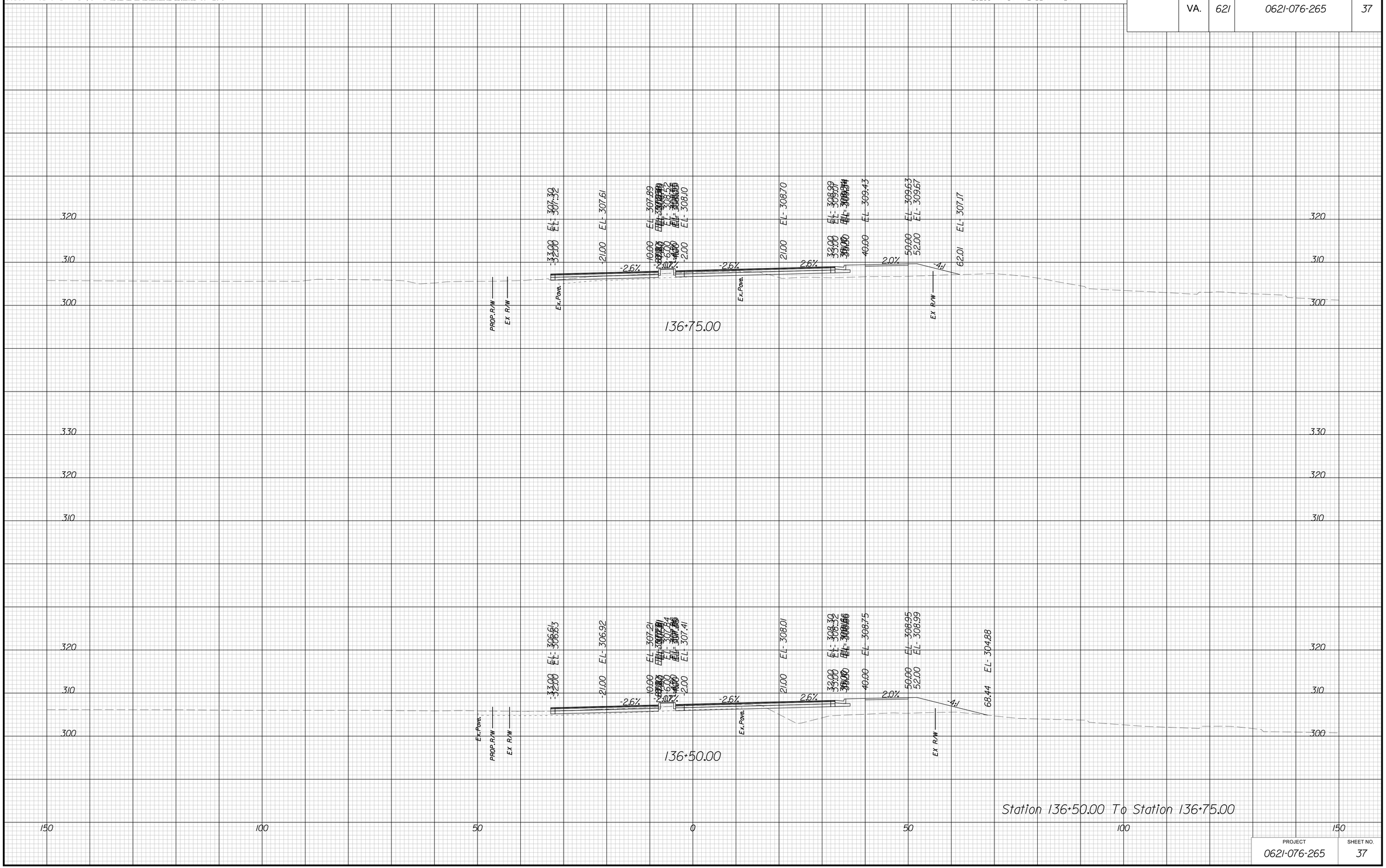
PROJECT MANAGER FHWA/VDOT: Kristian Shammout, P.E. (703) 792-7193
SURVEYED BY, DATE FHWA: Efren Ocampo LLS (703) 334-3302: September 2018
DESIGN BY FHWA: Mark A. Gum, P.E. (703) 334-3288 _ _ _ _ _
SUBSURFACE UTILITY BY, DATE Accumark (703) 378-0100: November 2018

CROSS SECTIONS

SCALE 1 IN. = 10 FT

DESIGN 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 ROUTE	STATE PROJECT	SHEET NO.
	VA.	621	0621-076-265	37



Station 136+50.00 To Station 136+75.00

PROJECT	SHEET NO.
0621-076-265	37

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

P.H. PLANS

3/22/2019
1:57:36 PM

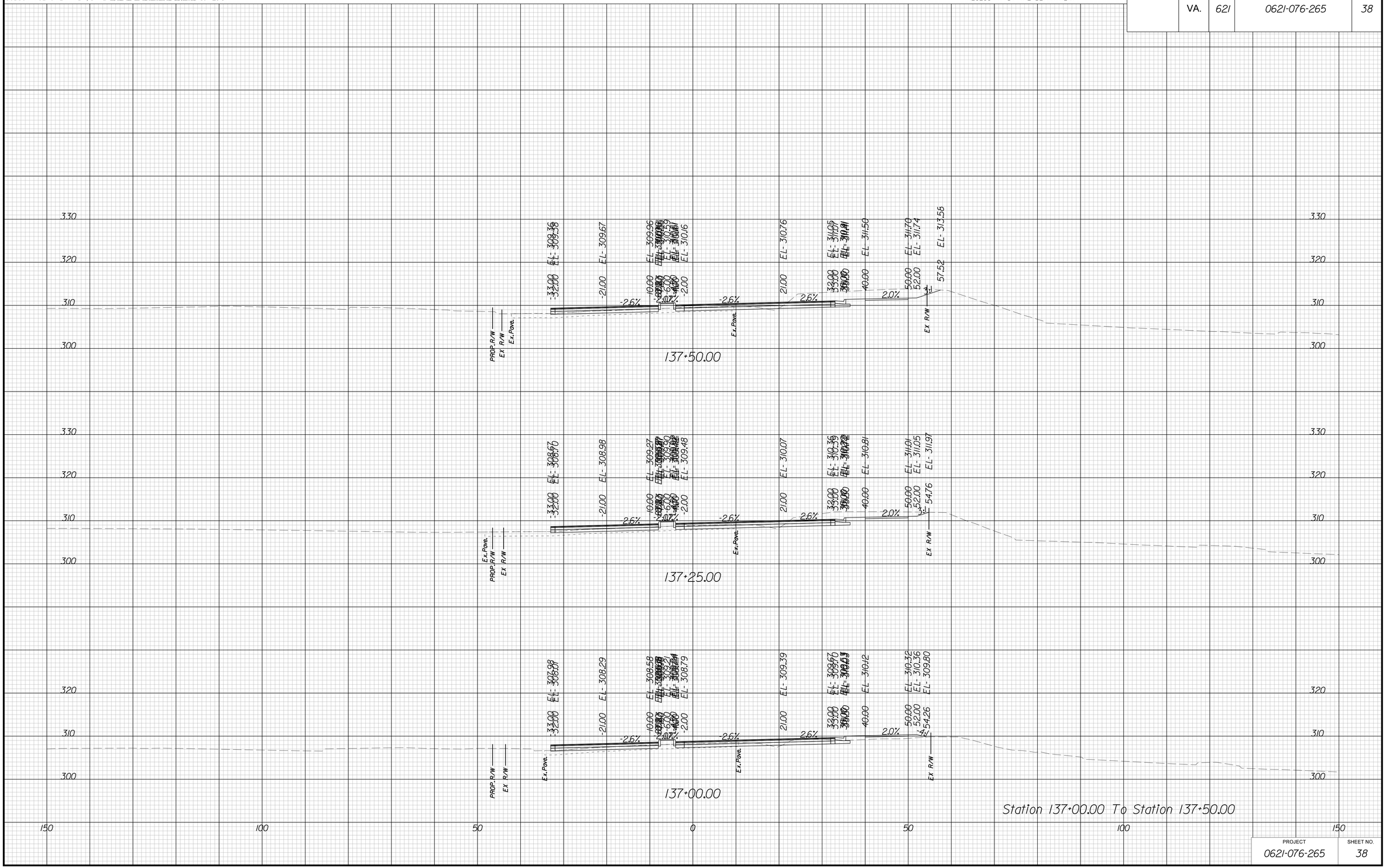
PROJECT MANAGER VDOT: Khatab Shammout, P.E. (703) 792-7193
SURVEYED BY, DATE HDA: Efren Cipriano LLS (703) 334-3302 September 2018
DESIGN BY HDA: Mark A. Gum, P.E. (703) 334-3288
SUBSURFACE UTILITY BY, DATE Accumark (703) 378-0100 November 2018

CROSS SECTIONS

SCALE 1 IN. = 10 FT

DESIGN 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 ROUTE	STATE PROJECT	SHEET NO.
	VA.	621	0621-076-265	38



PROJECT	SHEET NO.
0621-076-265	38

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

P.H. PLANS

3/22/2019
1:57:40 PM

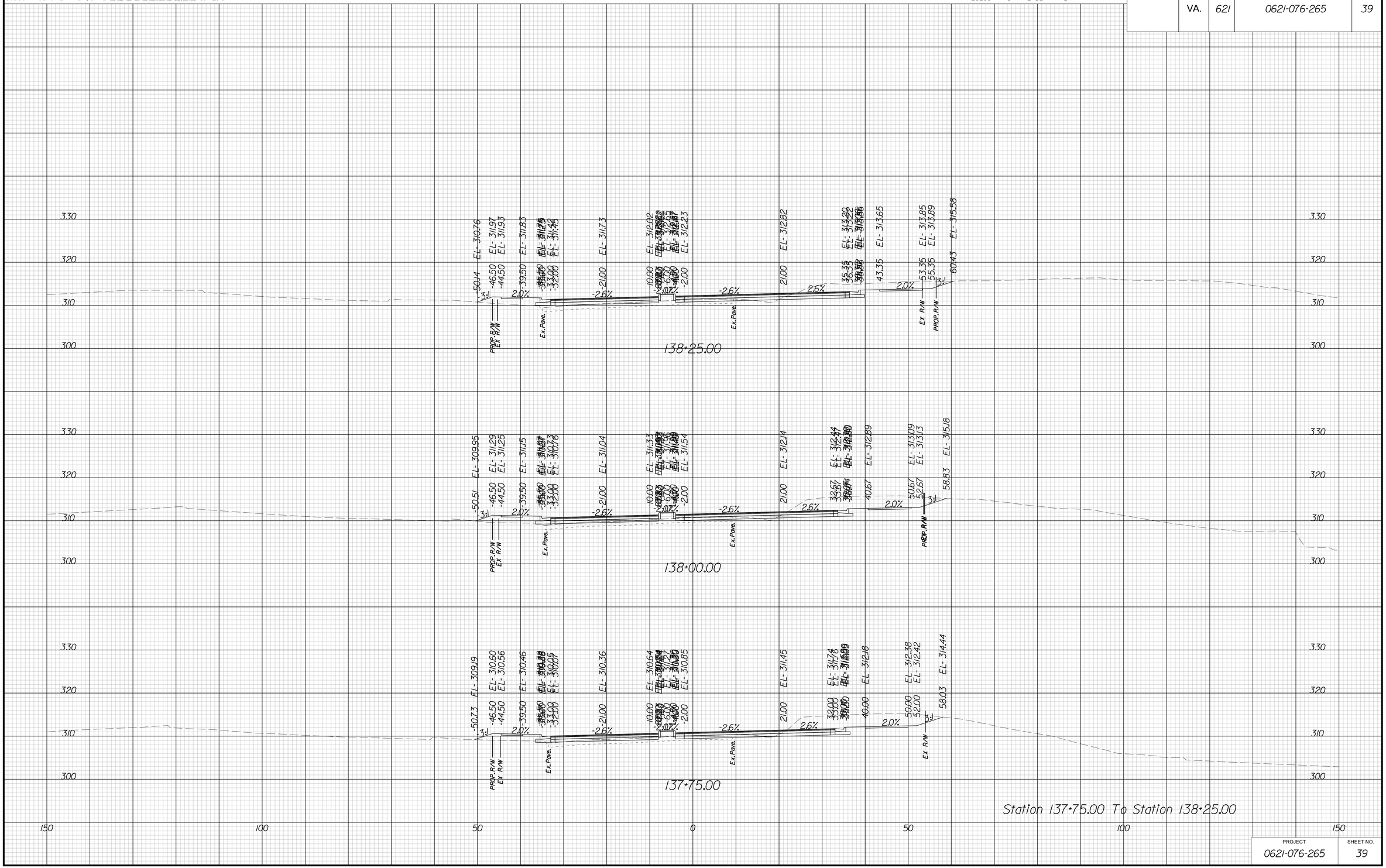
PROJECT MANAGER VDOT: Kristian Shammout, P.E. (703) 792-7193
SURVEYED BY, DATE HDA: Ethan Cipcello LS (703) 334-3302 September 2018
DESIGN BY HDA: Mark A. Gum, P.E. (703) 334-3288
SUBSURFACE UTILITY BY, DATE Accumark (703) 378-0100 November 2018

CROSS SECTIONS

SCALE 1 IN. = 10 FT

DESIGN 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 ROUTE	STATE PROJECT	SHEET NO.
	VA.	621	0621-076-265	39



PROJECT	SHEET NO.
0621-076-265	39

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

P.H. PLANS

3/22/2019
1:57:45 PM

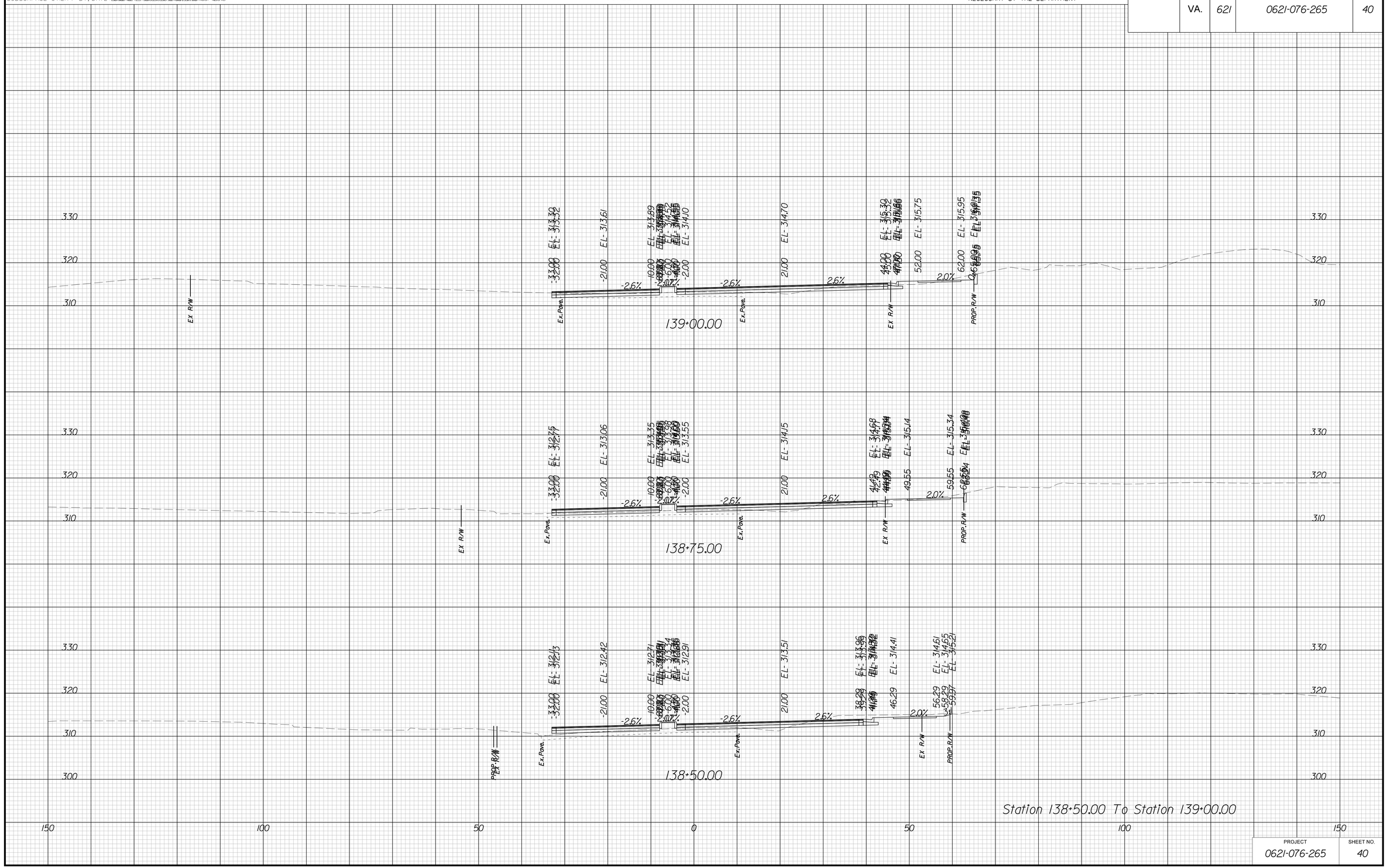
PROJECT MANAGER VDOT: Kristian Strommen, P.E. (703) 792-7193
SURVEYED BY, DATE HDA: Ryan Depello LS (703) 334-3302 September 2018
DESIGN BY HDA: Mark A. Gum, P.E. (703) 334-3288
SUBSURFACE UTILITY BY, DATE Accumark (703) 378-0100 November 2018

CROSS SECTIONS

SCALE 1 IN. = 10 FT

DESIGN 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 ROUTE	STATE PROJECT	SHEET NO.
	VA.	621	0621-076-265	40



PROJECT	SHEET NO.
0621-076-265	40

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

P.H. PLANS

3/22/2019
1:57:50 PM

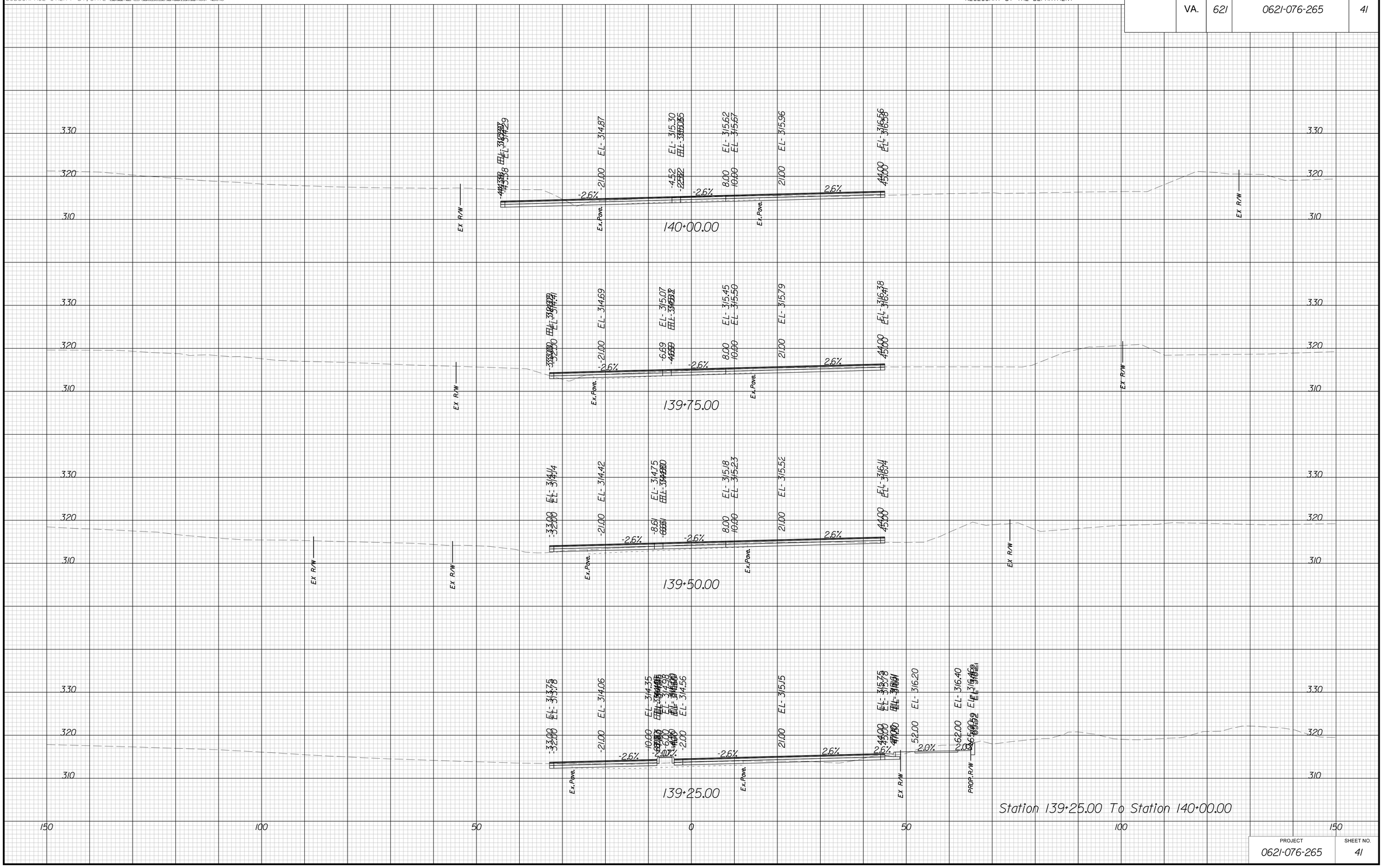
PROJECT MANAGER VDOT: Khatab Shammout, P.E. (703) 792-7193
SURVEYED BY, DATE HDA: Efren Cipriano LLS (703) 334-3302 September 2018
DESIGN BY HDA: Mark A. Gum, P.E. (703) 334-3288
SUBSURFACE UTILITY BY, DATE Accumark (703) 378-0100 November 2018

CROSS SECTIONS

SCALE 1 IN. = 10 FT

DESIGN 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 ROUTE	STATE PROJECT	SHEET NO.
	VA.	621	0621-076-265	41



PROJECT	SHEET NO.
0621-076-265	41

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

P.H. PLANS

3/22/2019
1:57:54 PM

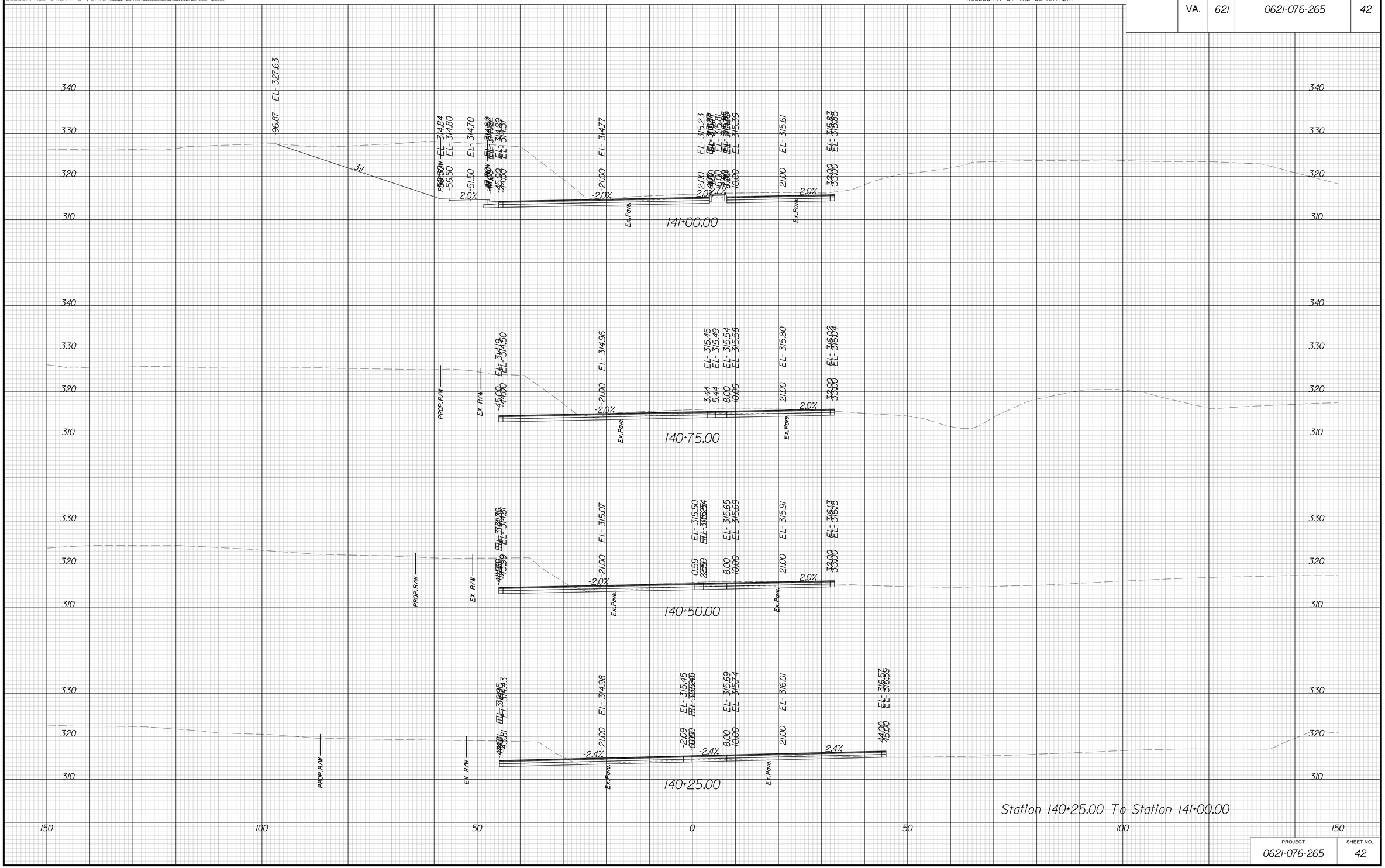
PROJECT MANAGER VDOT: Kristian Shammout, P.E. (703) 792-7195
SURVEYED BY, DATE HDA: Ryan Depetto LS (703) 533-9303; September 2018
DESIGN BY HDA: Mark A. Gum, P.E. (703) 334-9288
SUBSURFACE UTILITY BY, DATE Accumark (703) 378-0100; November 2018

CROSS SECTIONS

SCALE 1 IN. = 10 FT

DESIGN 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 ROUTE	STATE PROJECT	SHEET NO.
	VA.	621	0621-076-265	42



PROJECT	SHEET NO.
0621-076-265	42

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

P.H. PLANS

3/22/2019
1:57:59 PM

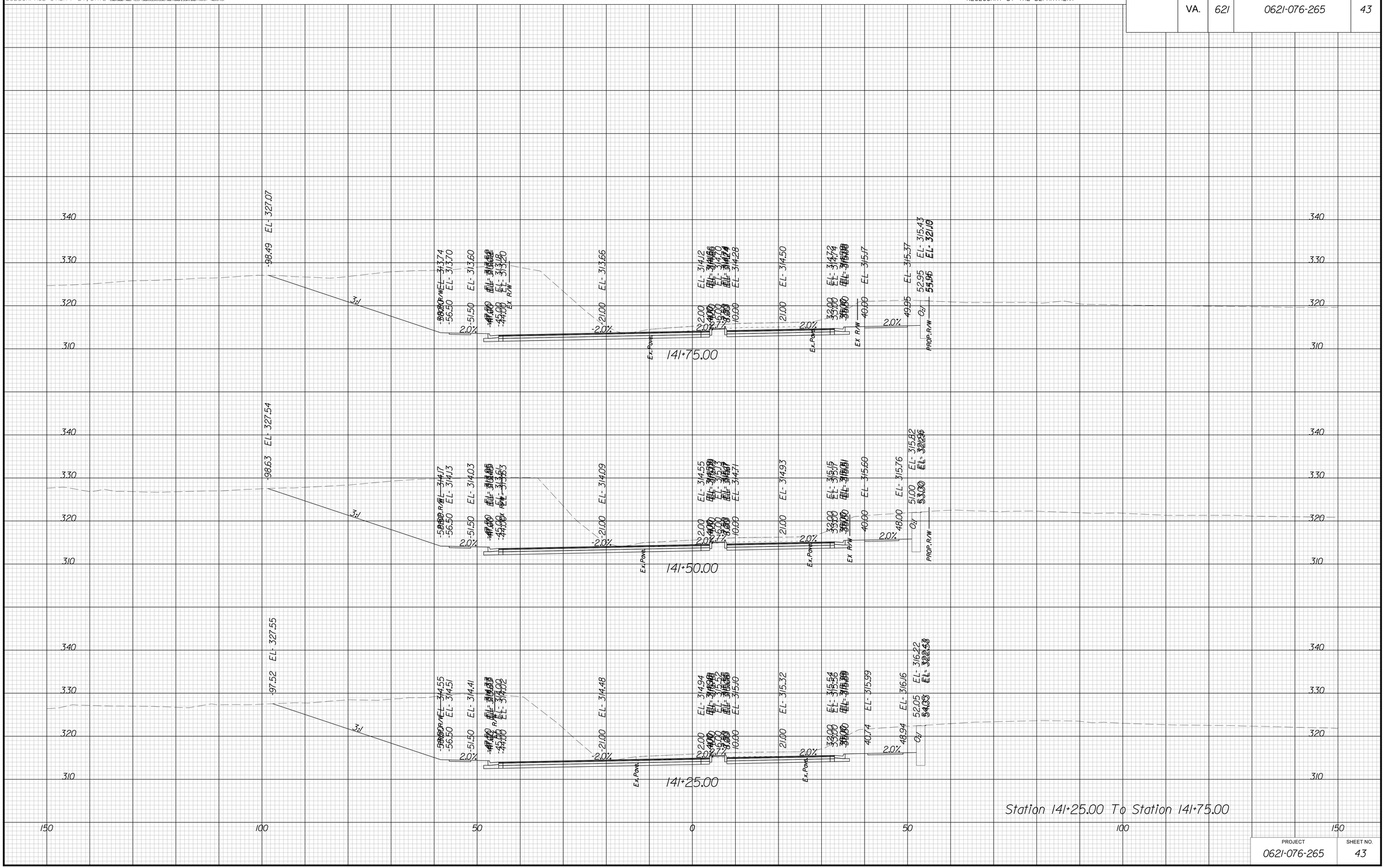
PROJECT MANAGER VDOT: Khatab Shammout, P.E. (703) 792-7193
SURVEYED BY, DATE HDA: Efren Cipriano LS (703) 334-3302 September 2018
DESIGN BY HDA: Mark A. Gum, P.E. (703) 334-3288
SUBSURFACE UTILITY BY, DATE Accumark (703) 378-0100 November 2018

CROSS SECTIONS

SCALE 1 IN. = 10 FT

DESIGN 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 ROUTE	STATE PROJECT	SHEET NO.
	VA.	621	0621-076-265	43



PROJECT	SHEET NO.
0621-076-265	43

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

P.H. PLANS

3/22/2019
1:58:04 PM

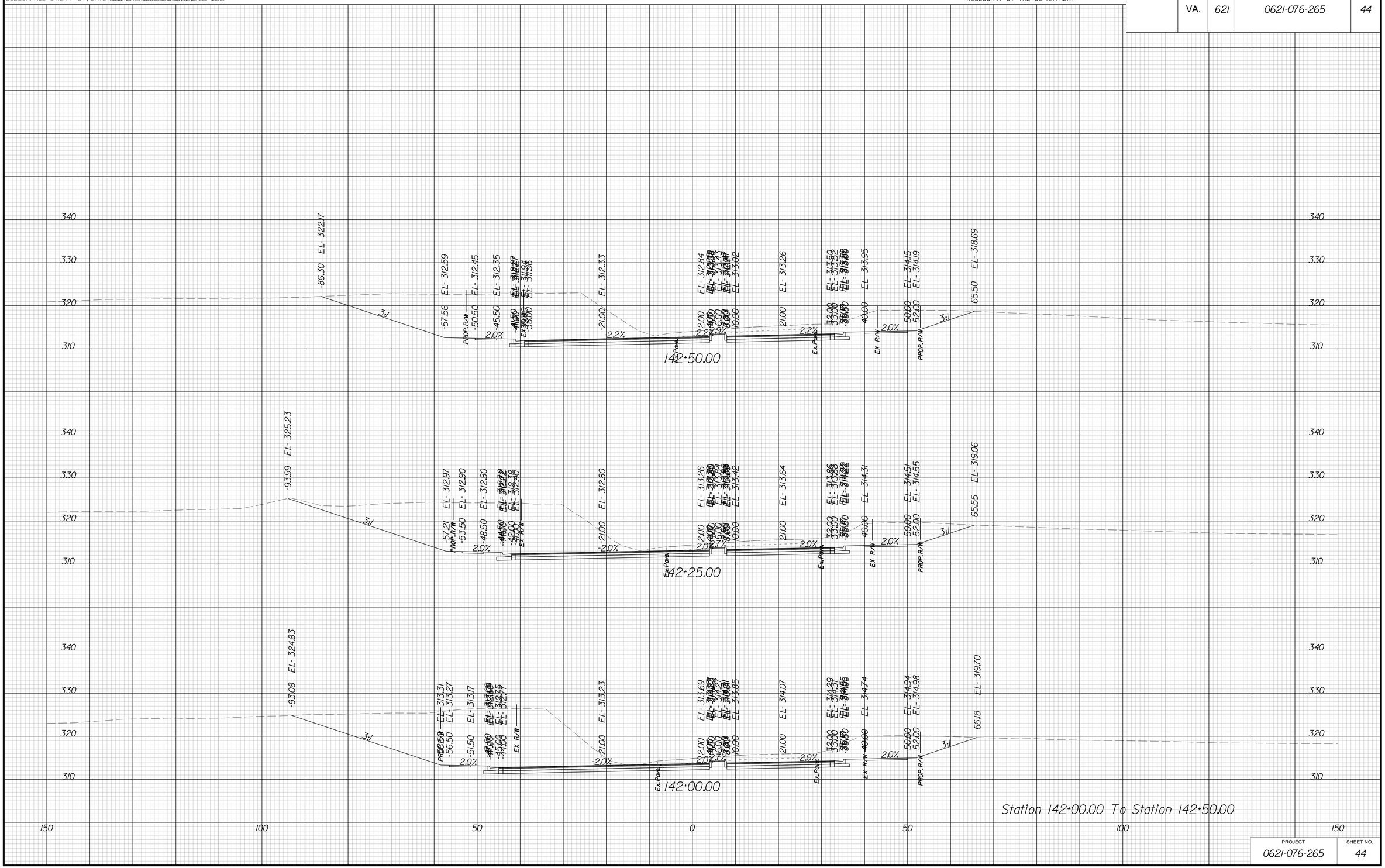
PROJECT MANAGER VDOT: Khatab Shammout, P.E. (703) 792-7193
SURVEYED BY, DATE HDA: Ethan Cipetello LS (703) 334-3302 September 2018
DESIGN BY HDA: Mark A. Gum, P.E. (703) 334-3288
SUBSURFACE UTILITY BY, DATE Accumark (703) 378-0100 November 2018

CROSS SECTIONS

SCALE 1 IN. = 10 FT

DESIGN 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 ROUTE	STATE PROJECT	SHEET NO.
	VA.	621	0621-076-265	44



PROJECT	SHEET NO.
0621-076-265	44

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

P.H. PLANS

3/22/2019
1:58:08 PM

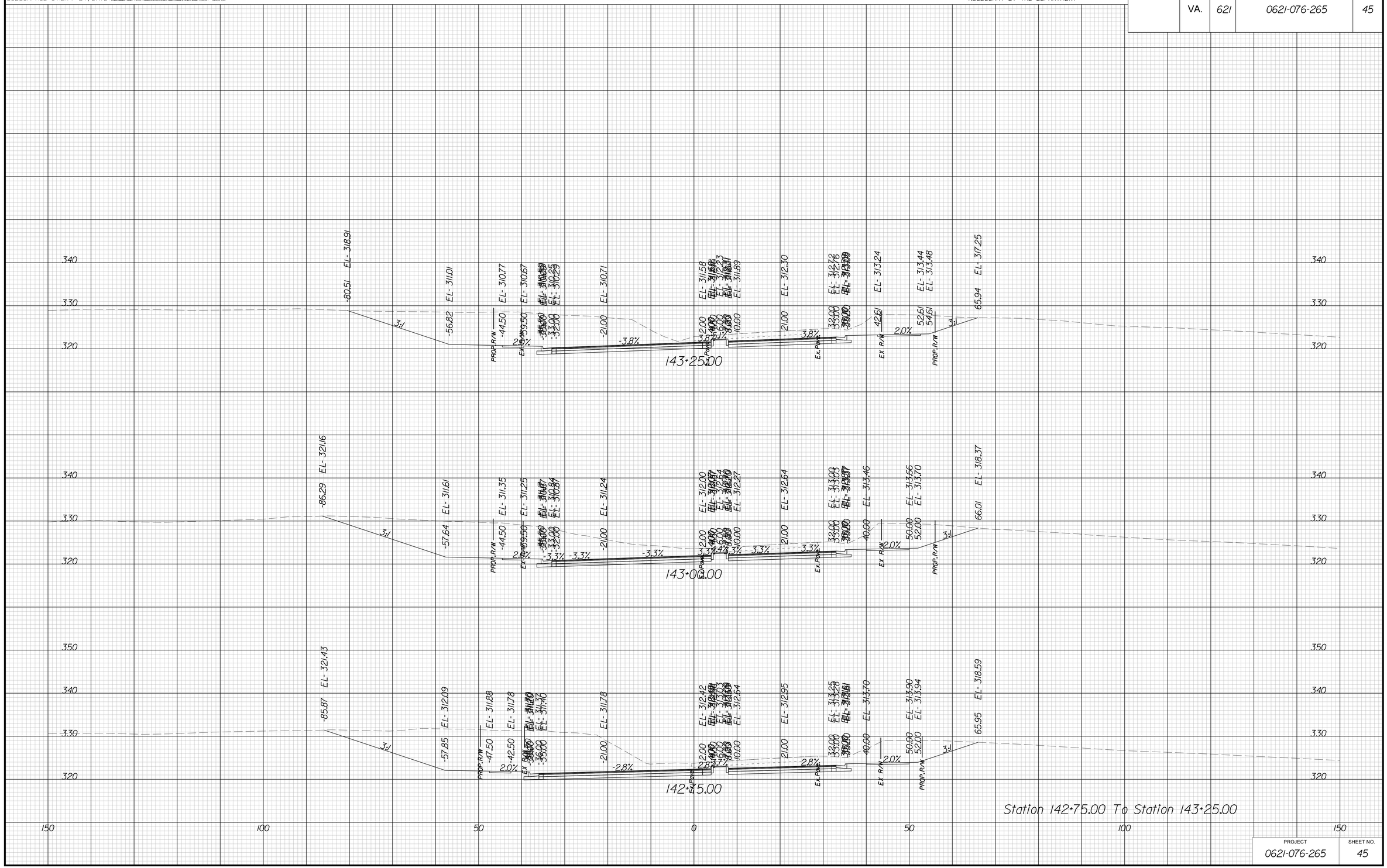
PROJECT MANAGER VDOT: Kristian Shammout, P.E. (703) 792-7193
SURVEYED BY, DATE HDA: Efren Cepeda LLS (703) 334-3302 September 2018
DESIGN BY HDA: Mark A. Gum, P.E. (703) 334-3288
SUBSURFACE UTILITY BY, DATE Accumark (703) 378-0100 November 2018

CROSS SECTIONS

SCALE 1 IN. = 10 FT

DESIGN 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 ROUTE	STATE PROJECT	SHEET NO.
	VA.	621	0621-076-265	45



PROJECT	SHEET NO.
0621-076-265	45

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

P.H. PLANS

3/22/2019
1:58:13 PM

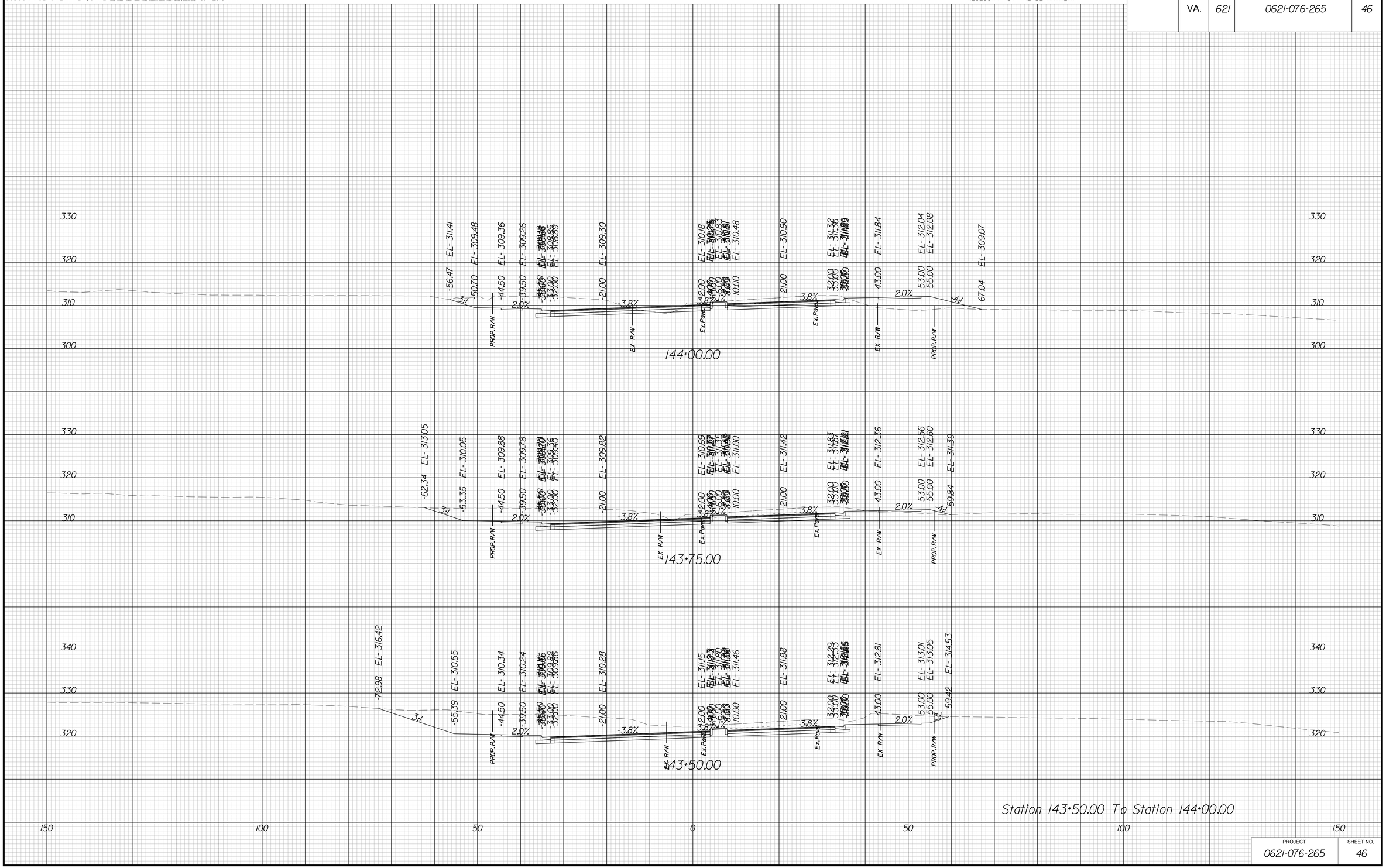
PROJECT MANAGER VDOT: Kristian Shammout, P.E. (703) 792-7193
SURVEYED BY, DATE HDA: Ethan Cipetello LS (703) 334-3302 September 2018
DESIGN BY HDA: Mark A. Gum, P.E. (703) 334-3288
SUBSURFACE UTILITY BY, DATE Accumark (703) 378-0100 November 2018

CROSS SECTIONS

SCALE 1 IN. = 10 FT

DESIGN 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 ROUTE	STATE PROJECT	SHEET NO.
	VA.	621	0621-076-265	46



PROJECT	SHEET NO.
0621-076-265	46

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

P.H. PLANS

3/22/2019
1:58:18 PM

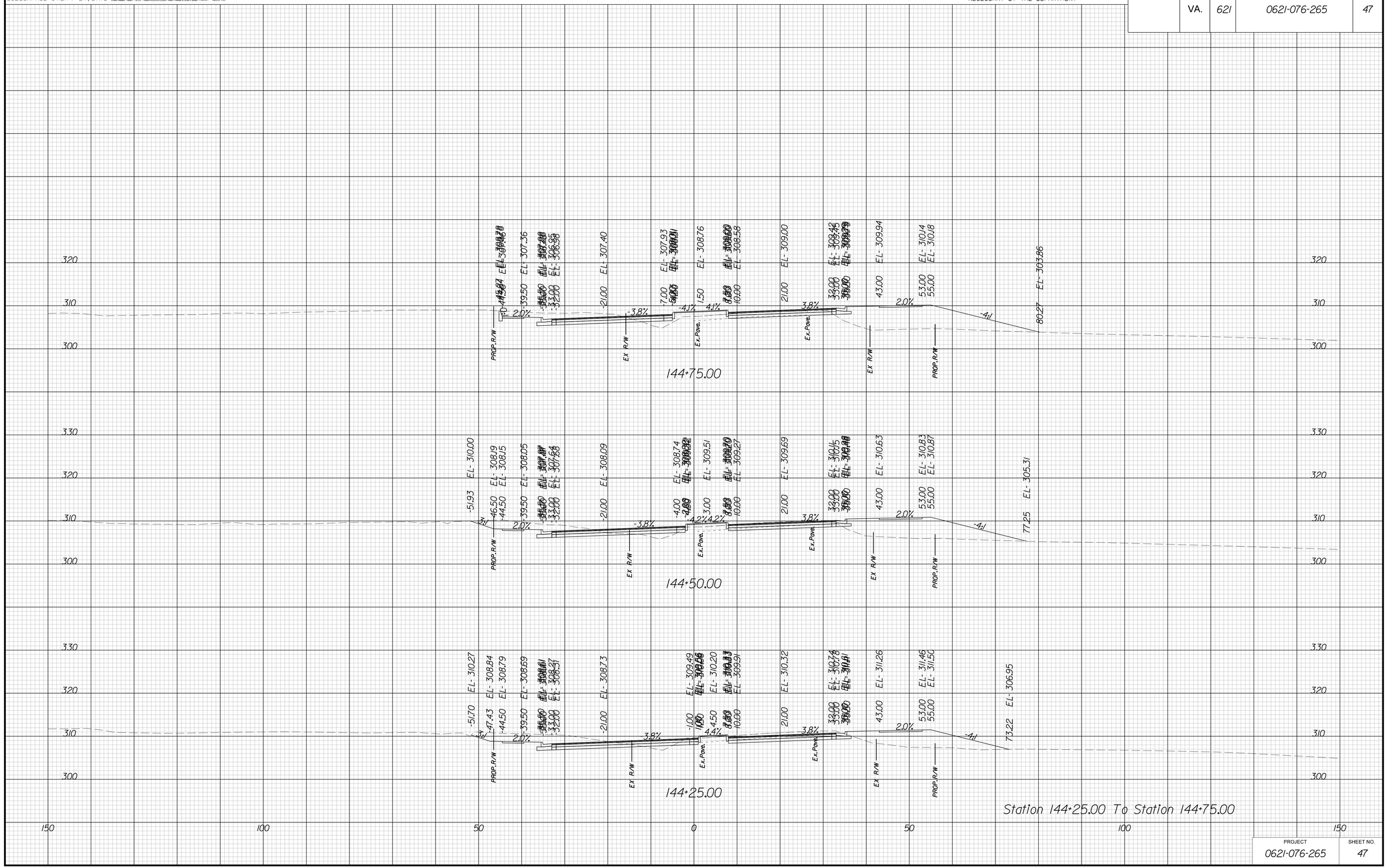
PROJECT MANAGER VDOT: Kristian Shammout, P.E. (703) 792-7193
SURVEYED BY, DATE HDA: Ethan Cipcello LS (703) 334-3302 September 2018
DESIGN BY HDA: Mark A. Gum, P.E. (703) 334-3288
SUBSURFACE UTILITY BY, DATE Accumark (703) 378-0100 November 2018

CROSS SECTIONS

SCALE 1 IN. = 10 FT

DESIGN 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 ROUTE	STATE PROJECT	SHEET NO.
	VA.	621	0621-076-265	47



PROJECT	SHEET NO.
0621-076-265	47

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

P.H. PLANS

3/22/2019
1:58:22 PM

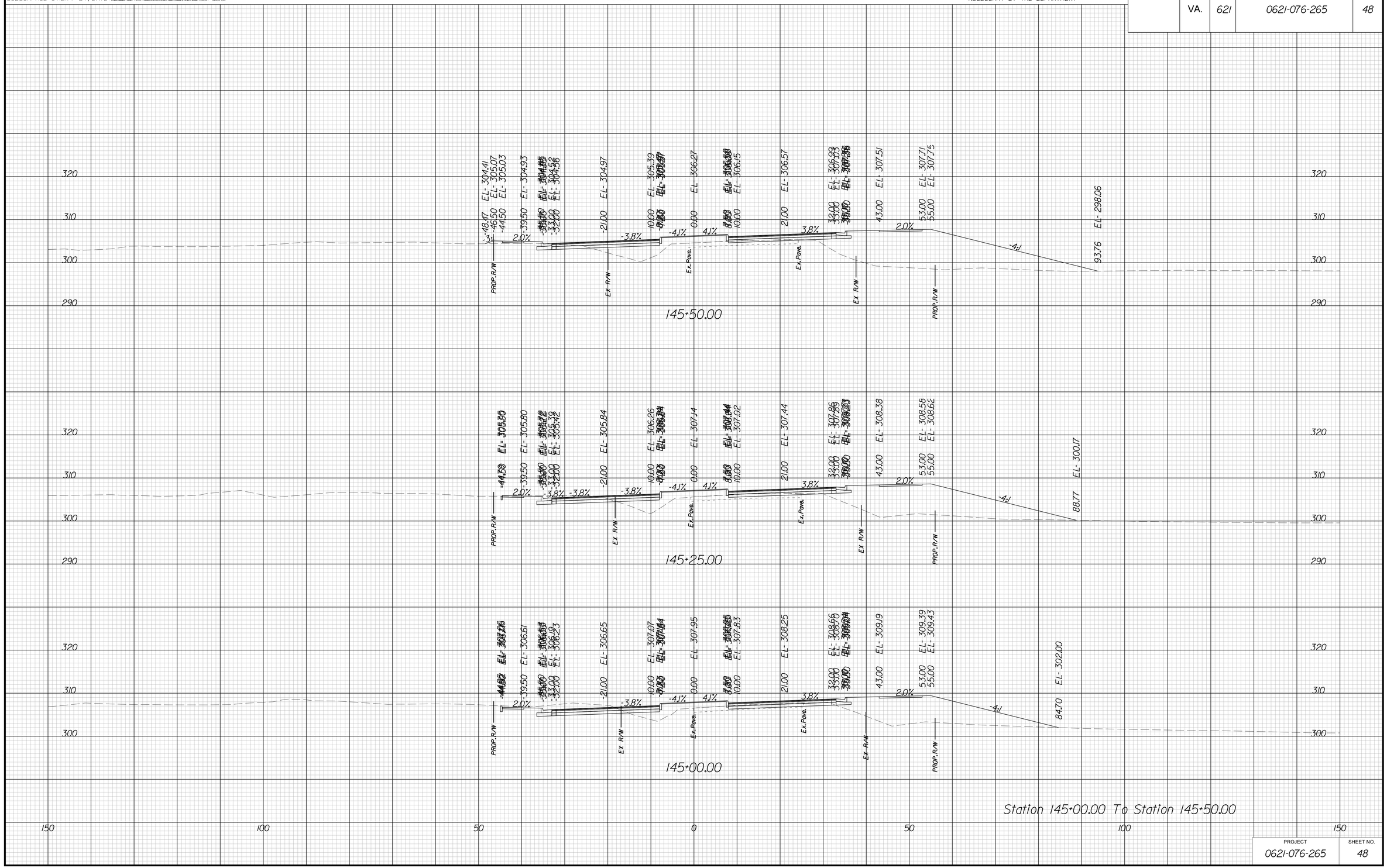
PROJECT MANAGER VDOT: Kristian Shammout, P.E. (703) 792-7193
SURVEYED BY, DATE HDA: Efren Cipriano LS (703) 334-3302 September 2018
DESIGN BY HDA: Mark A. Gum, P.E. (703) 334-3288
SUBSURFACE UTILITY BY, DATE Accumark (703) 378-0100 November 2018

CROSS SECTIONS

SCALE 1 IN. = 10 FT

DESIGN 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 ROUTE	STATE PROJECT	SHEET NO.
	VA.	621	0621-076-265	48



PROJECT 0621-076-265 | SHEET NO. 48

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

P.H. PLANS

3/22/2019
1:58:27 PM

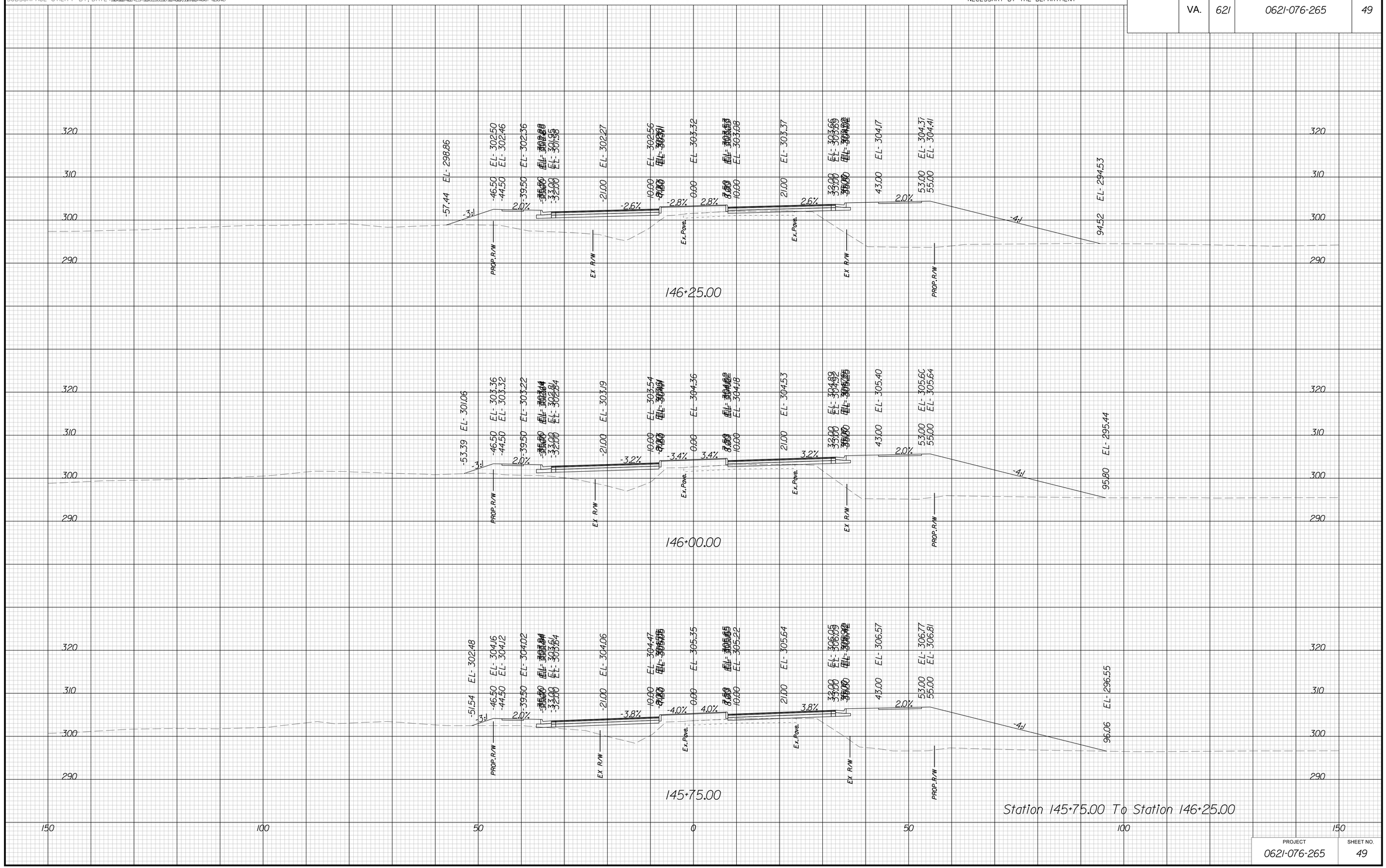
PROJECT MANAGER FHWA/VDOT: Khalid Shammout, P.E. (703) 792-7193
SURVEYED BY, DATE HDA: Efren Cepeda LLS (703) 334-3302: September 2018
DESIGN BY HDA: Mark A. Gum, P.E. (703) 334-3302
SUBSURFACE UTILITY BY, DATE Accumark (703) 378-0100: November 2018

CROSS SECTIONS

SCALE 1 IN. = 10 FT

DESIGN 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 ROUTE	STATE PROJECT	SHEET NO.
	VA.	621	0621-076-265	49



PROJECT	SHEET NO.
0621-076-265	49

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

P.H. PLANS

3/22/2019
1:58:32 PM

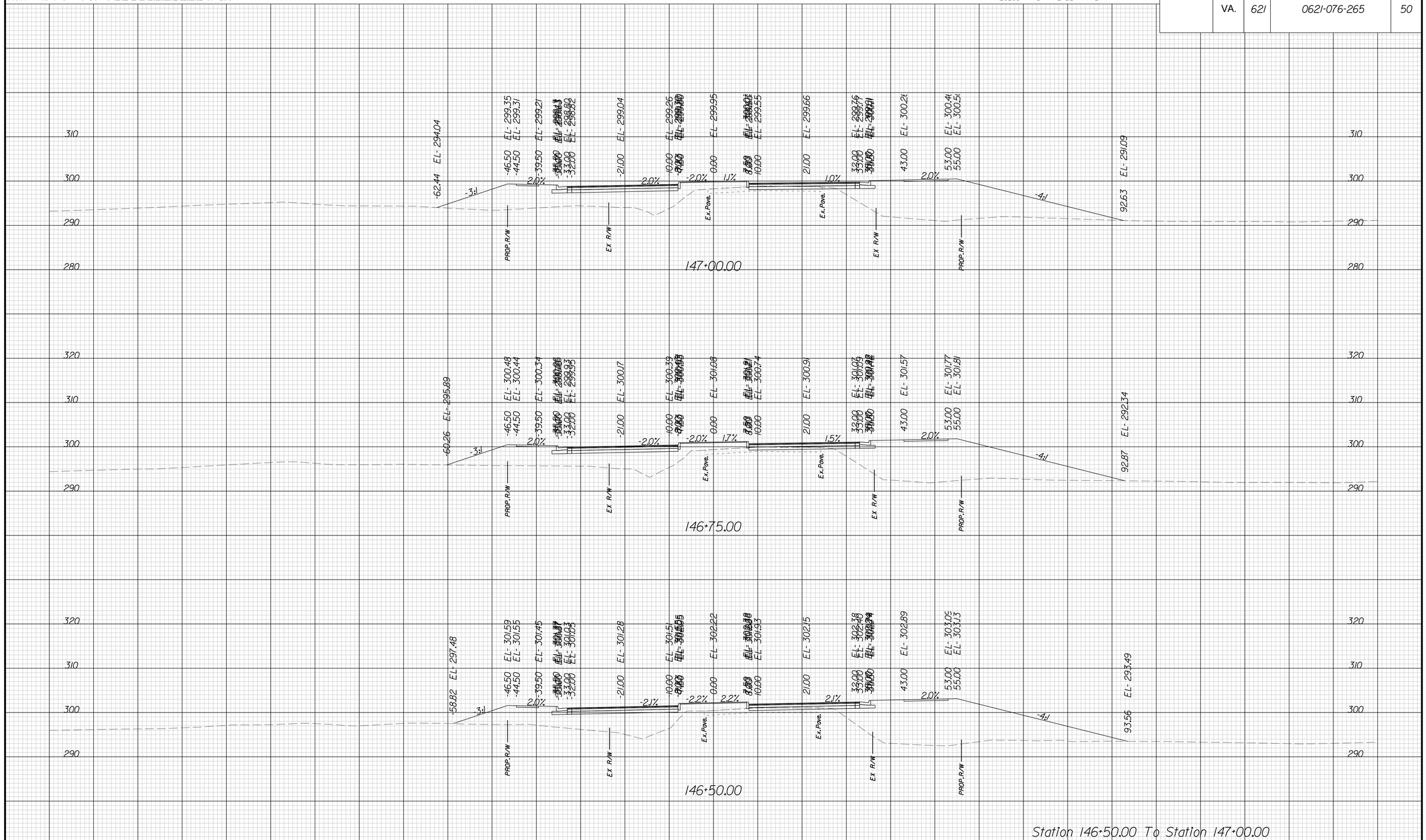
PROJECT MANAGER VDOT: Khatab Shammout, P.E. (703) 792-7193
SURVEYED BY, DATE RDA: Efren Cipriano LLS (703) 334-3302: September 2018
DESIGN BY RDA: Mark A. Gum, P.E. (703) 334-3288
SUBSURFACE UTILITY BY, DATE Accumark (703) 378-0100: November 2018

CROSS SECTIONS

SCALE 1 IN. = 10 FT

DESIGN 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 ROUTE	STATE PROJECT	SHEET NO.
	VA.	621	0621-076-265	50



PROJECT	SHEET NO.
0621-076-265	50

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

P.H. PLANS

3/22/2019
1:58:36 PM

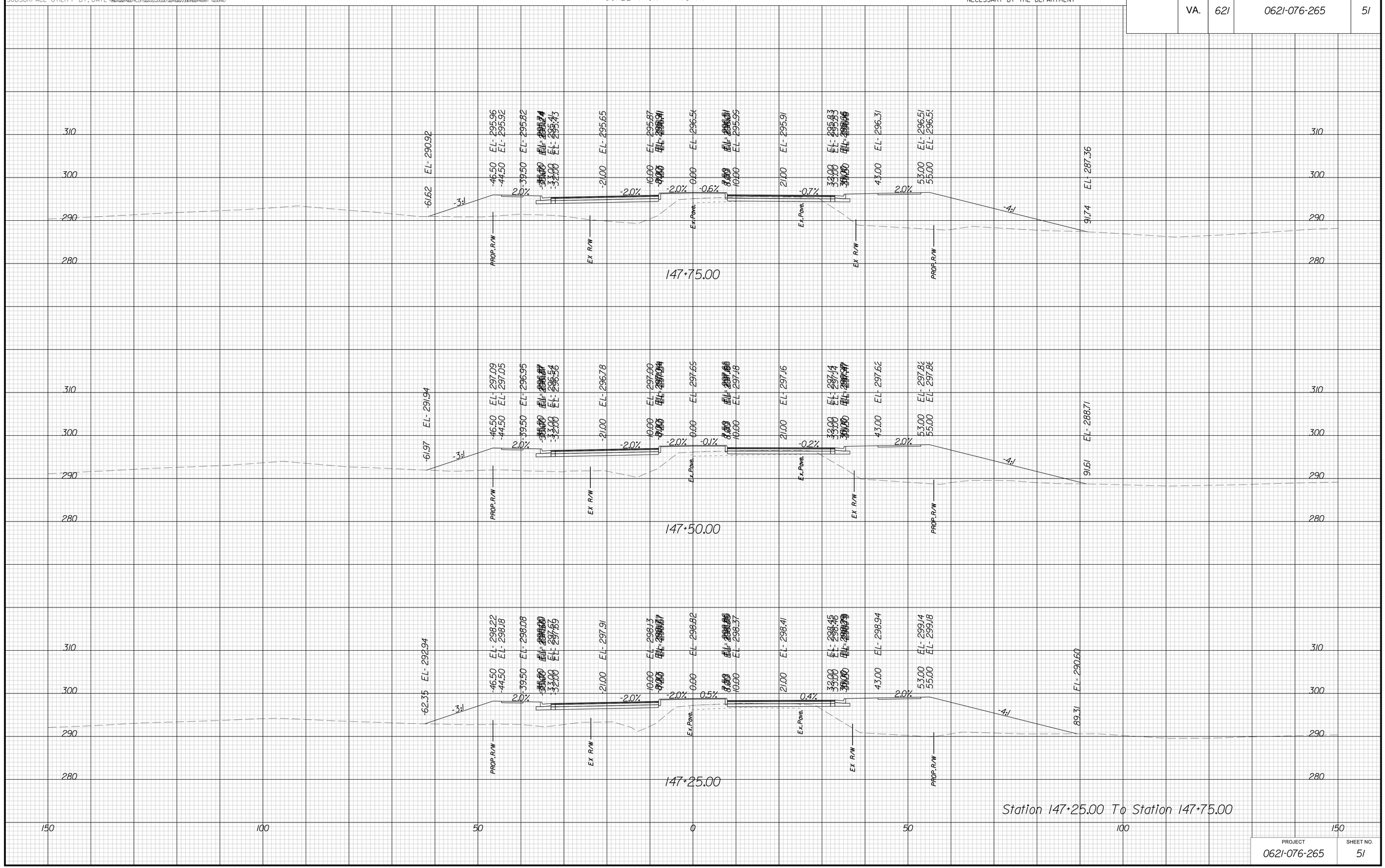
PROJECT MANAGER VDOT: Kristian Shammout, P.E. (703) 792-7193
SURVEYED BY, DATE HDA: Efren Cepeda LS (703) 334-3302 September 2018
DESIGN BY HDA: Mark A. Gum, P.E. (703) 334-3288
SUBSURFACE UTILITY BY, DATE Accumark (703) 378-0100 November 2018

CROSS SECTIONS

SCALE 1 IN. = 10 FT

DESIGN 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 ROUTE	STATE PROJECT	SHEET NO.
	VA.	621	0621-076-265	51



PROJECT	SHEET NO.
0621-076-265	51

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

P.H. PLANS

3/22/2019
1:58:41 PM

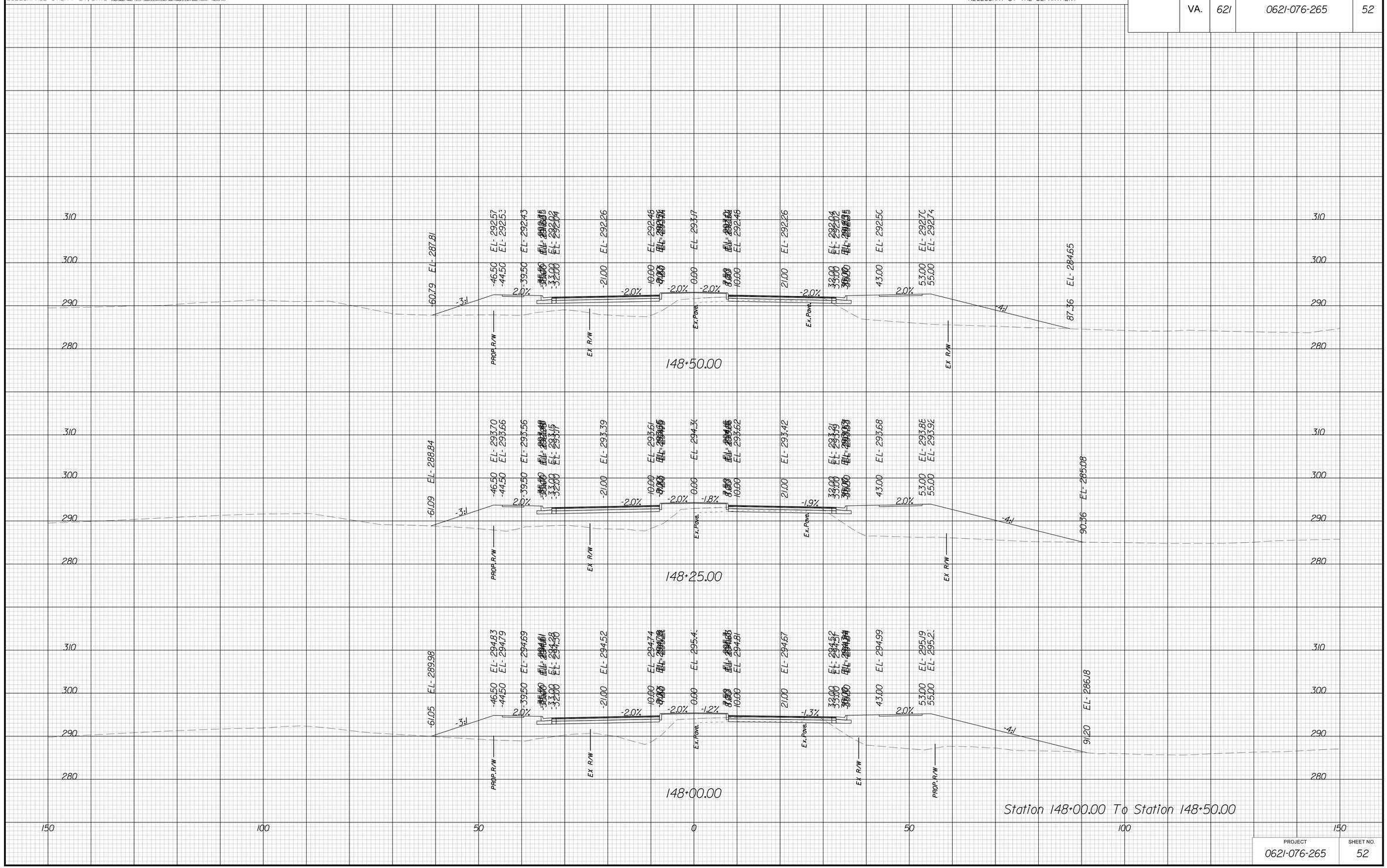
PROJECT MANAGER VDOT: Kristian Shammout, P.E. (703) 792-7193
SURVEYED BY, DATE HDA: Efren Cepeda LLS (703) 334-3302 September 2018
DESIGN BY HDA: Mark A. Gum, P.E. (703) 334-3288
SUBSURFACE UTILITY BY, DATE Accumark (703) 378-0100 November 2018

CROSS SECTIONS

SCALE 1 IN. = 10 FT

DESIGN 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 ROUTE	STATE PROJECT	SHEET NO.
	VA.	621	0621-076-265	52



PROJECT	SHEET NO.
0621-076-265	52

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

P.H. PLANS

3/22/2019
1:58:46 PM

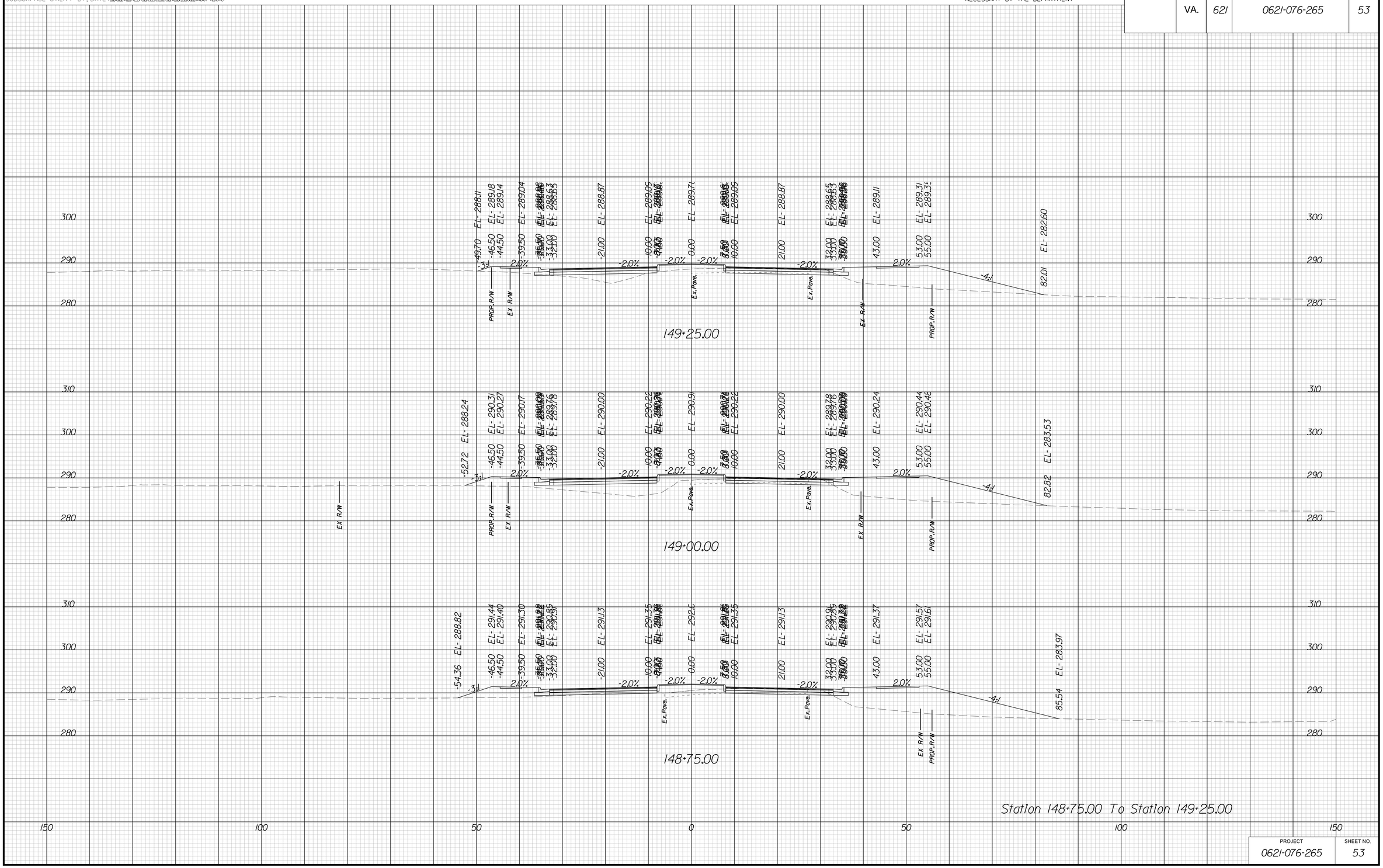
PROJECT MANAGER VDOT: Khatab Shammout, P.E. (703) 792-7193
SURVEYED BY, DATE HDA: Ethan Cipetello LS (703) 334-3302 September 2018
DESIGN BY HDA: Mark A. Gum, P.E. (703) 334-3288
SUBSURFACE UTILITY BY, DATE Accumark (703) 378-0100 November 2018

CROSS SECTIONS

SCALE 1 IN. = 10 FT

DESIGN 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 ROUTE	STATE PROJECT	SHEET NO.
	VA.	621	0621-076-265	53



PROJECT	SHEET NO.
0621-076-265	53

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

P.H. PLANS

3/22/2019
1:58:50 PM

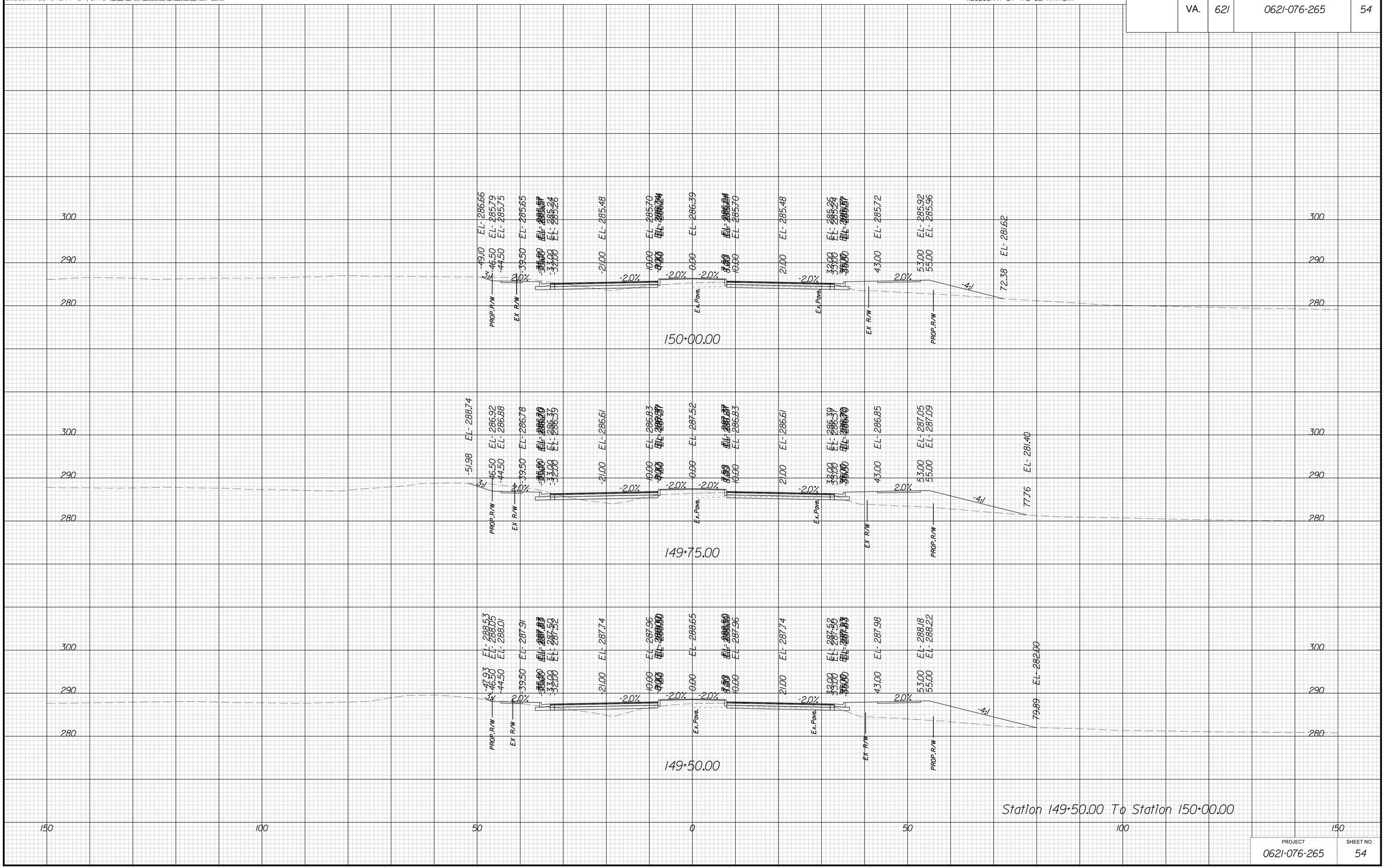
PROJECT MANAGER VDOT: Khatab Shammout, P.E. (703) 792-7193
SURVEYED BY, DATE HDA: Ethan Cipetello LS (703) 334-3302 September 2018
DESIGN BY HDA: Mark A. Gum, P.E. (703) 334-3288
SUBSURFACE UTILITY BY, DATE Accumark (703) 378-0100 November 2018

CROSS SECTIONS

SCALE 1 IN. = 10 FT

DESIGN 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 ROUTE	STATE PROJECT	SHEET NO.
	VA.	621	0621-076-265	54



PROJECT	SHEET NO.
0621-076-265	54

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

P.H. PLANS

3/22/2019
1:58:55 PM

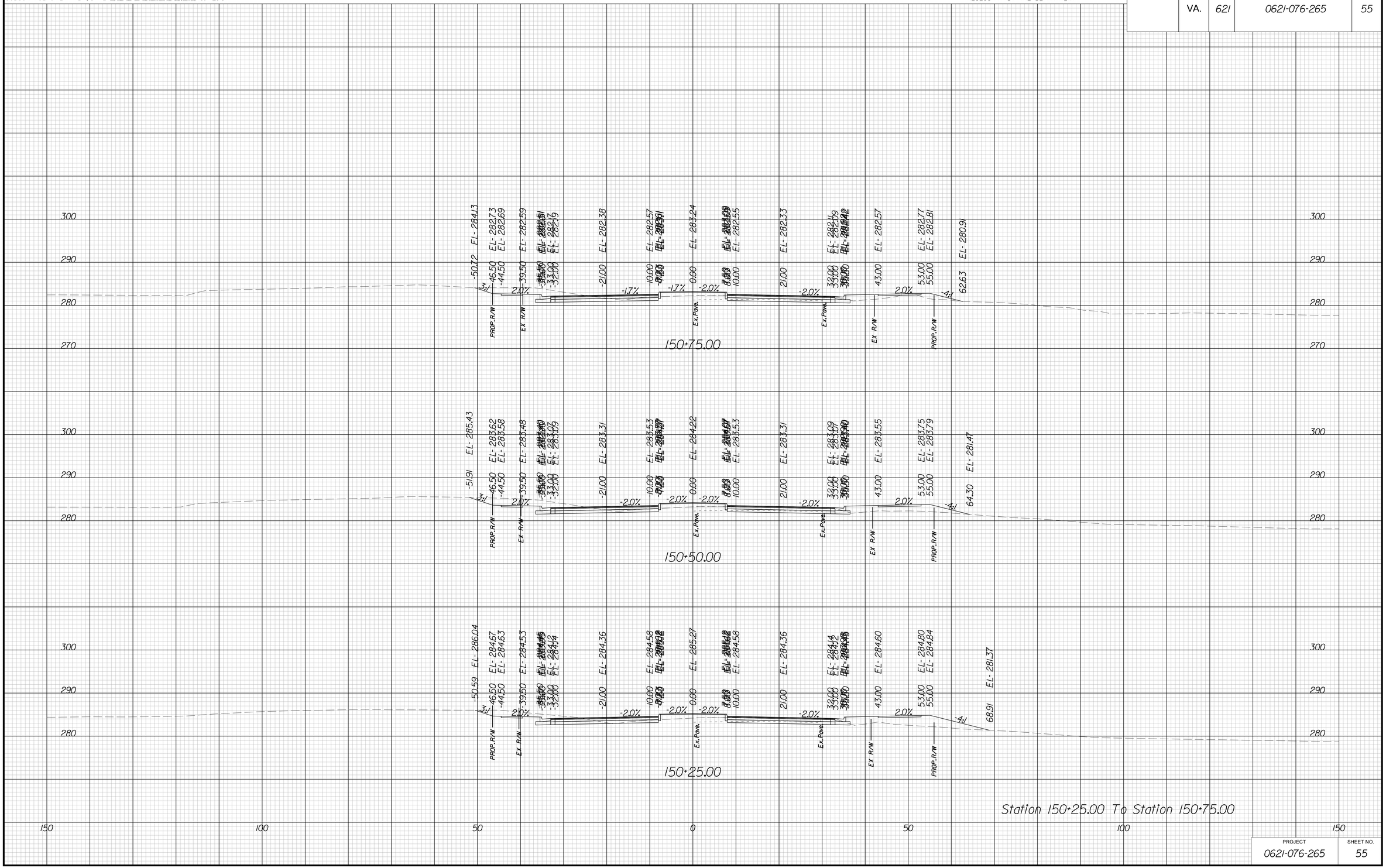
PROJECT MANAGER VDOT: Khatab Shammout, P.E. (703) 792-7193
SURVEYED BY, DATE HDA: Efren Cipriano LS (703) 334-3302 September 2018
DESIGN BY HDA: Mark A. Gum, P.E. (703) 334-3288
SUBSURFACE UTILITY BY, DATE Accumark (703) 378-0100 November 2018

CROSS SECTIONS

SCALE 1 IN. = 10 FT

DESIGN 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 ROUTE	STATE PROJECT	SHEET NO.
	VA.	621	0621-076-265	55



PROJECT 0621-076-265 | SHEET NO. 55

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

P.H. PLANS

3/22/2019
1:59:00 PM

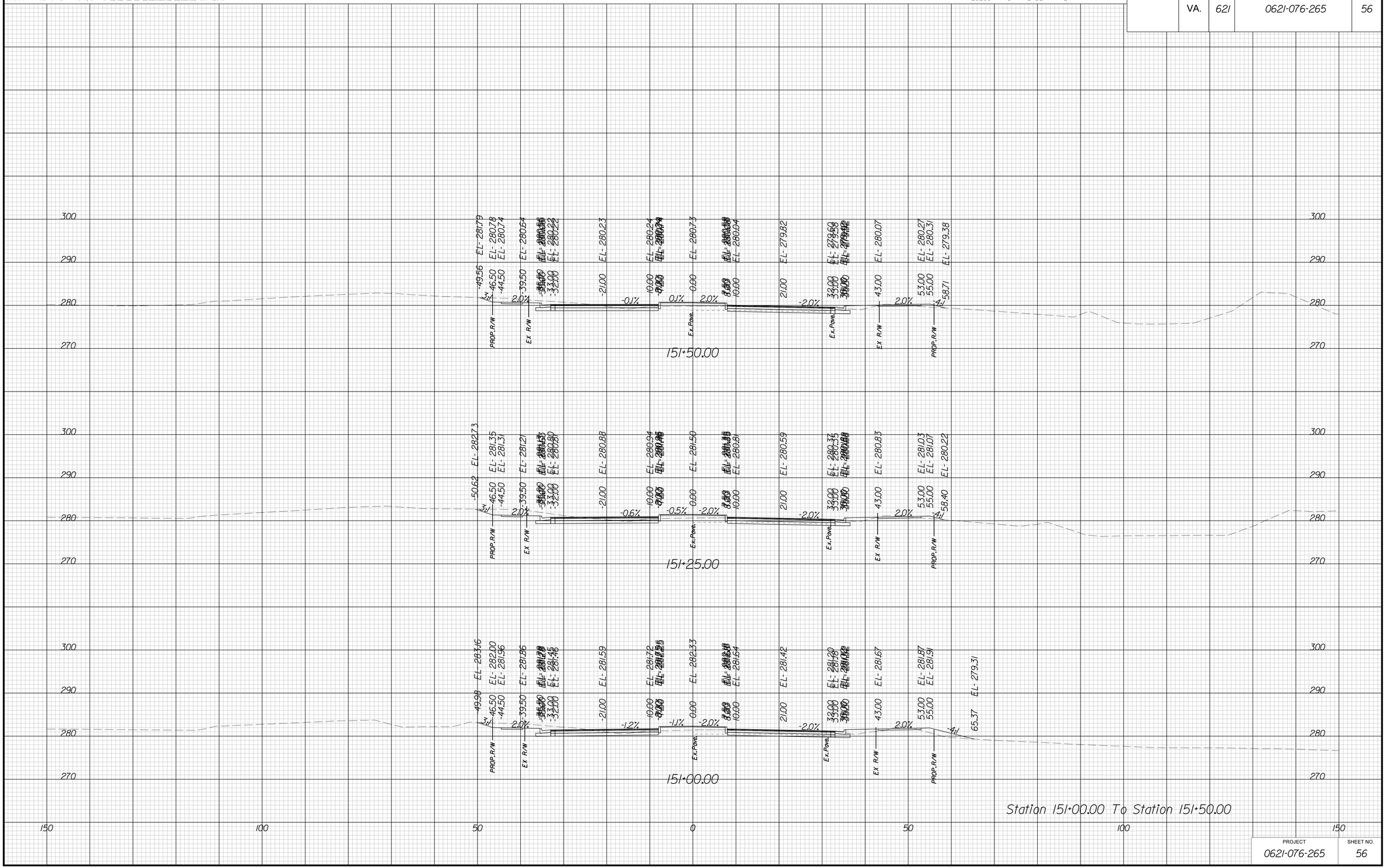
PROJECT MANAGER VDOT: Khatab Shammout, P.E. (703) 792-7193
SURVEYED BY, DATE HDA: Ethan Cipetello LS (703) 334-3302 September 2018
DESIGN BY HDA: Mark A. Gum, P.E. (703) 334-3288
SUBSURFACE UTILITY BY, DATE Accumark (703) 378-0100 November 2018

CROSS SECTIONS

SCALE 1 IN. = 10 FT

DESIGN 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 ROUTE	STATE PROJECT	SHEET NO.
	VA.	621	0621-076-265	56



PROJECT	SHEET NO.
0621-076-265	56

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

P.H. PLANS

3/22/2019
1:59:05 PM

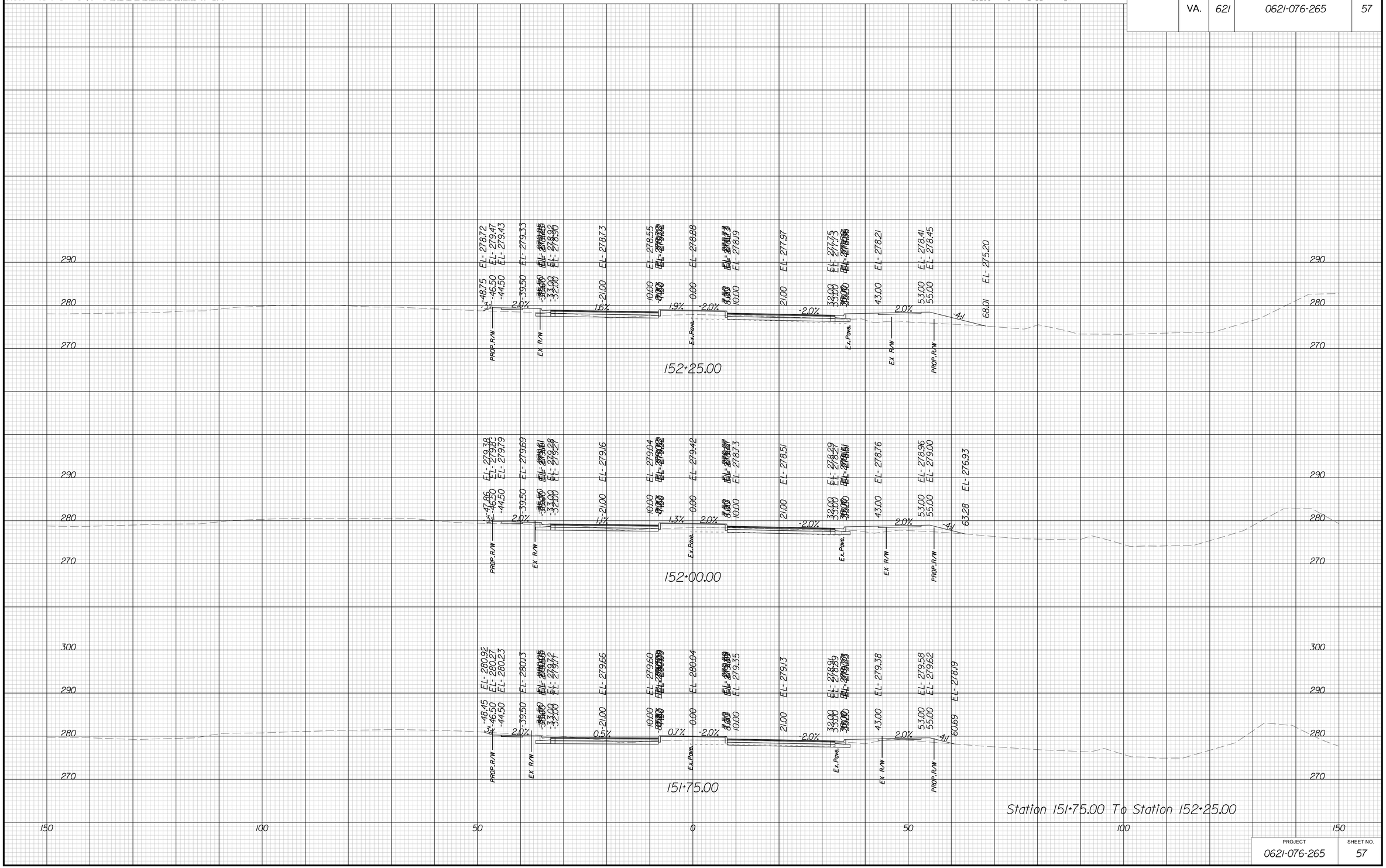
PROJECT MANAGER VDOT: Khatab Shammout, P.E. (703) 792-7193
SURVEYED BY, DATE HDA: Efren Cipriano LLS (703) 334-3302 September 2018
DESIGN BY HDA: Mark A. Gum, P.E. (703) 334-3288
SUBSURFACE UTILITY BY, DATE Accumark (703) 378-0100 November 2018

CROSS SECTIONS

SCALE 1 IN. = 10 FT

DESIGN 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 ROUTE	STATE PROJECT	SHEET NO.
	VA.	621	0621-076-265	57



PROJECT	SHEET NO.
0621-076-265	57

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

P.H. PLANS

3/22/2019
1:59:10 PM

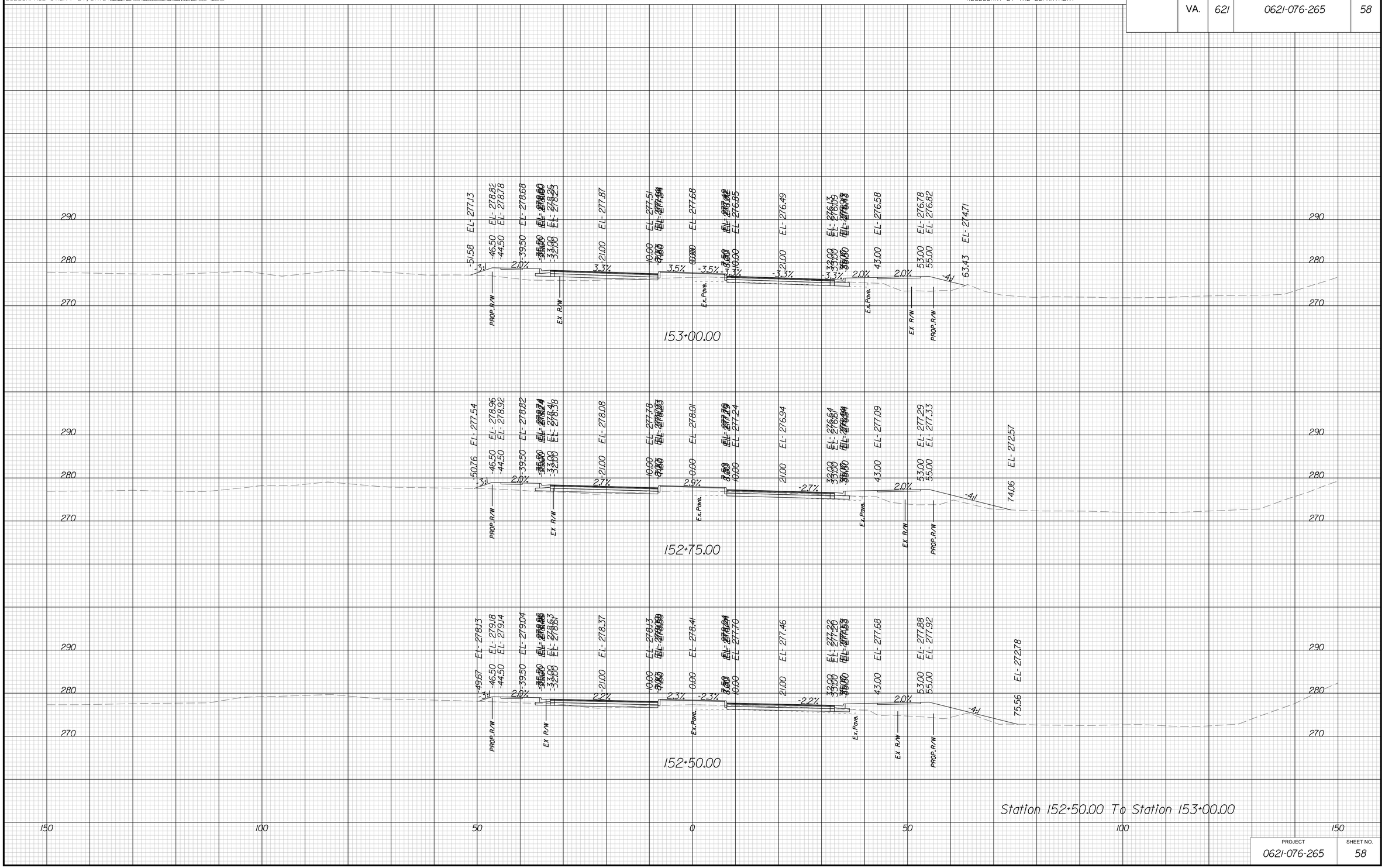
PROJECT MANAGER VDOT: Kristian Shammout, P.E. (703) 792-7195
SURVEYED BY, DATE HDA: Ryan Cipetello LS (703) 334-3302 September 2018
DESIGN BY HDA: Mark A. Gum, P.E. (703) 334-3288
SUBSURFACE UTILITY BY, DATE Accumark (703) 378-0100 November 2018

CROSS SECTIONS

SCALE 1 IN. = 10 FT

DESIGN 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 ROUTE	STATE PROJECT	SHEET NO.
	VA.	621	0621-076-265	58



PROJECT	SHEET NO.
0621-076-265	58

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

P.H. PLANS

3/22/2019
1:59:15 PM

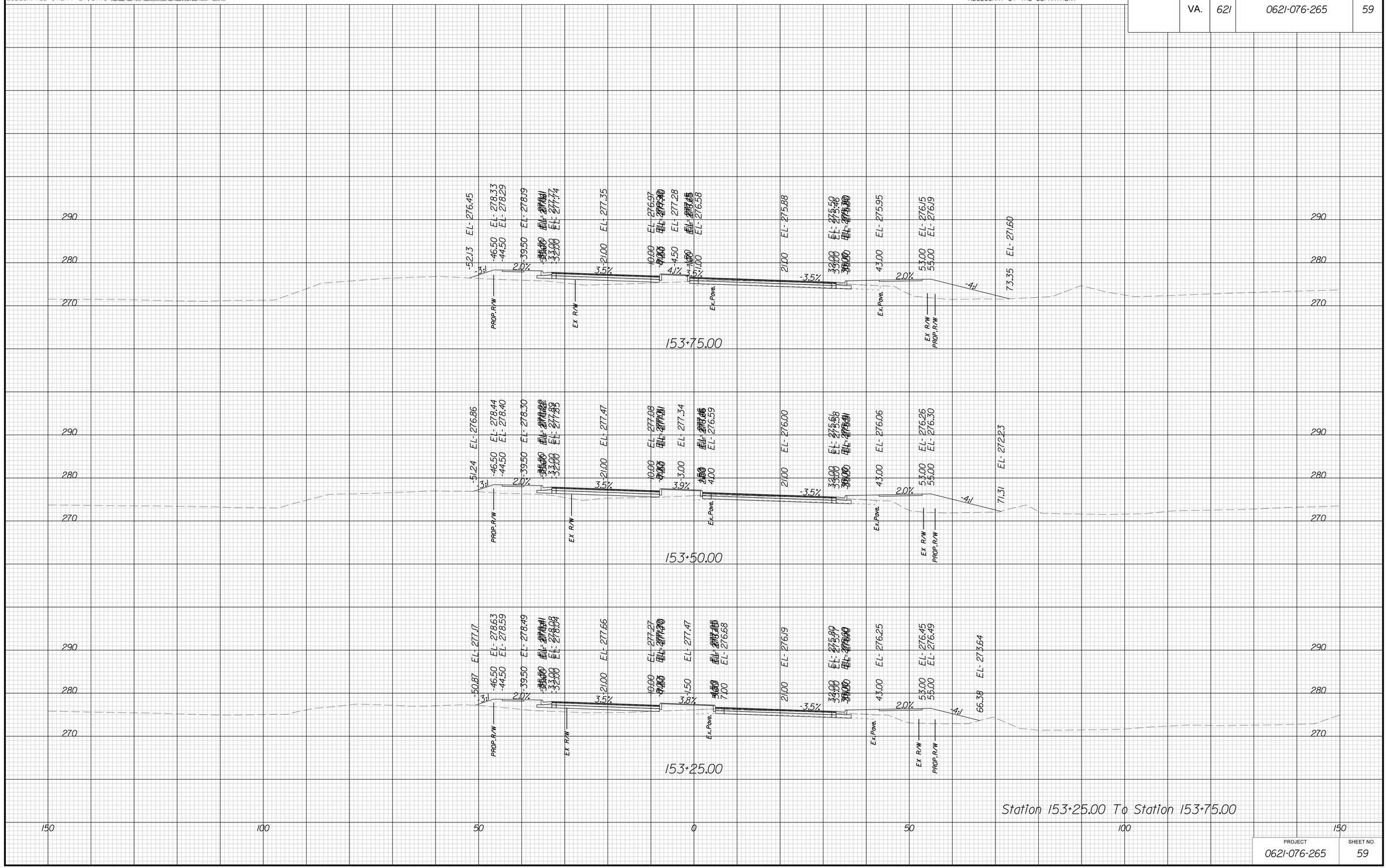
PROJECT MANAGER VDOT: Kristian Shammout, P.E. (703) 792-7195
SURVEYED BY, DATE HDA: Ethan Cipetello LS (703) 334-3302 September 2018
DESIGN BY HDA: Mark A. Gum, P.E. (703) 334-3288
SUBSURFACE UTILITY BY, DATE Accumark (703) 378-0100 November 2018

CROSS SECTIONS

SCALE 1 IN. = 10 FT

DESIGN 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 ROUTE	STATE PROJECT	SHEET NO.
	VA.	621	0621-076-265	59



Station 153+25.00 To Station 153+75.00

PROJECT	SHEET NO.
0621-076-265	59

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

P.H. PLANS

3/22/2019
1:59:19 PM

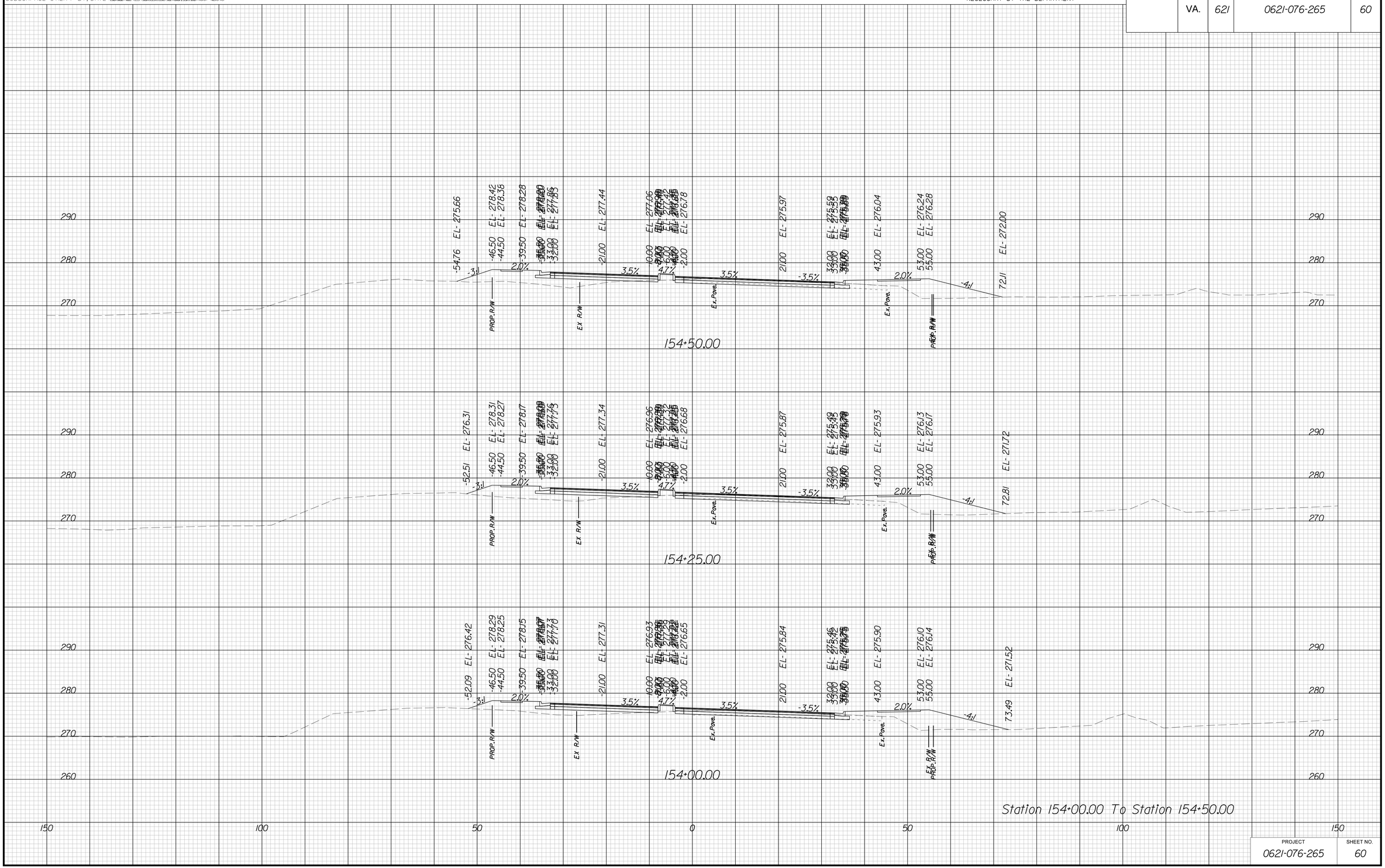
PROJECT MANAGER VDOT: Kristian Shammout, P.E. (703) 792-7195
SURVEYED BY, DATE HDA: Ethan Cipcetti LS (703) 334-3302; September 2018
DESIGN BY HDA: Mark A. Gum, P.E. (703) 334-3288
SUBSURFACE UTILITY BY, DATE Accumark (703) 378-0100; November 2018

CROSS SECTIONS

SCALE 1 IN. = 10 FT

DESIGN 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 ROUTE	STATE PROJECT	SHEET NO.
	VA.	621	0621-076-265	60



PROJECT	SHEET NO.
0621-076-265	60

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

P.H. PLANS

3/22/2019
1:59:24 PM

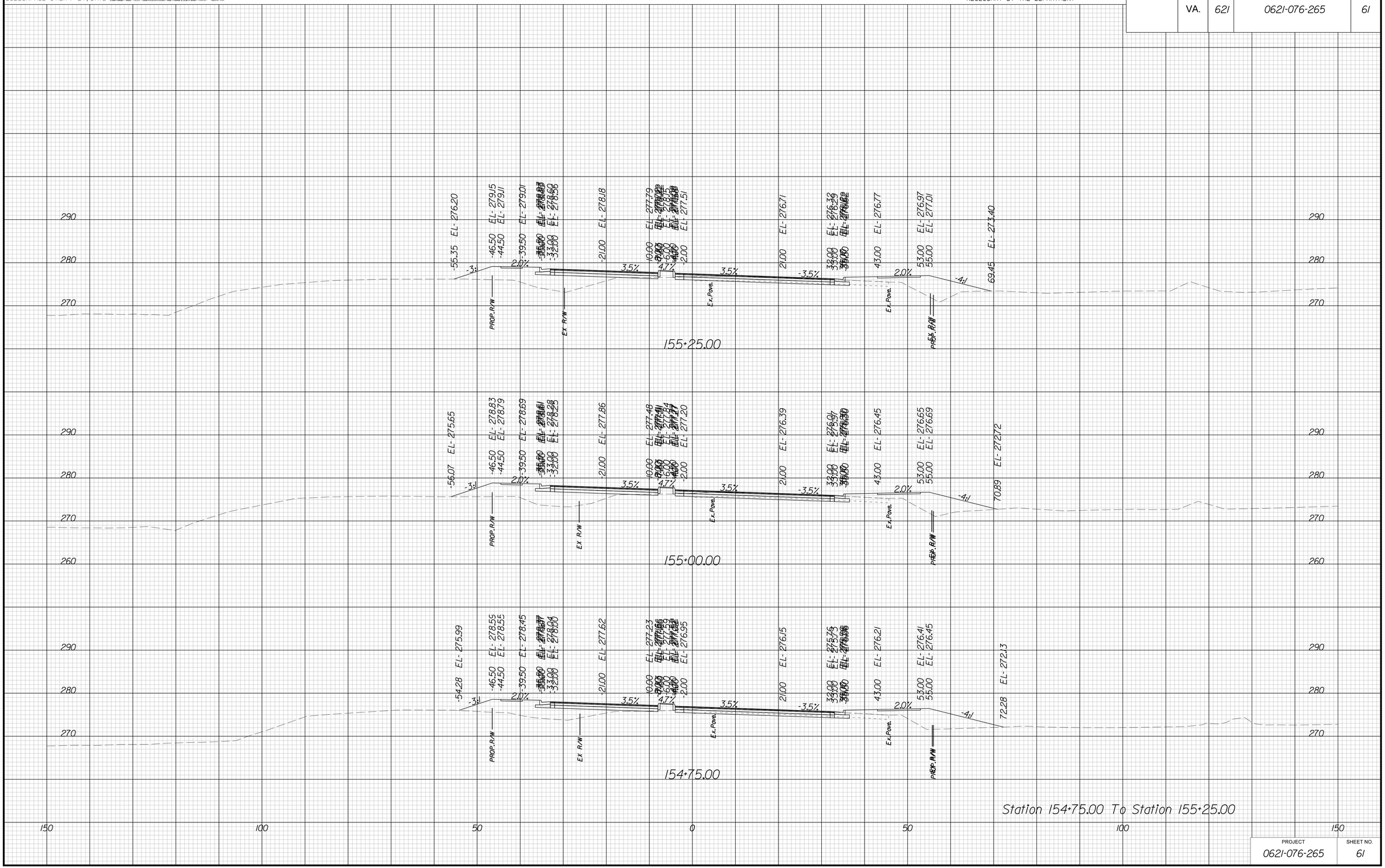
PROJECT MANAGER VDOT: Khatab Shammout, P.E. (703) 792-7193
SURVEYED BY, DATE HDA: Efren Cepeda LS (703) 334-3302 September 2018
DESIGN BY HDA: Mark A. Gum, P.E. (703) 334-3288
SUBSURFACE UTILITY BY, DATE Accumark (703) 378-0100 November 2018

CROSS SECTIONS

SCALE 1 IN. = 10 FT

DESIGN 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 ROUTE	STATE PROJECT	SHEET NO.
	VA.	621	0621-076-265	61



PROJECT	SHEET NO.
0621-076-265	61

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

P.H. PLANS

3/22/2019
1:59:29 PM

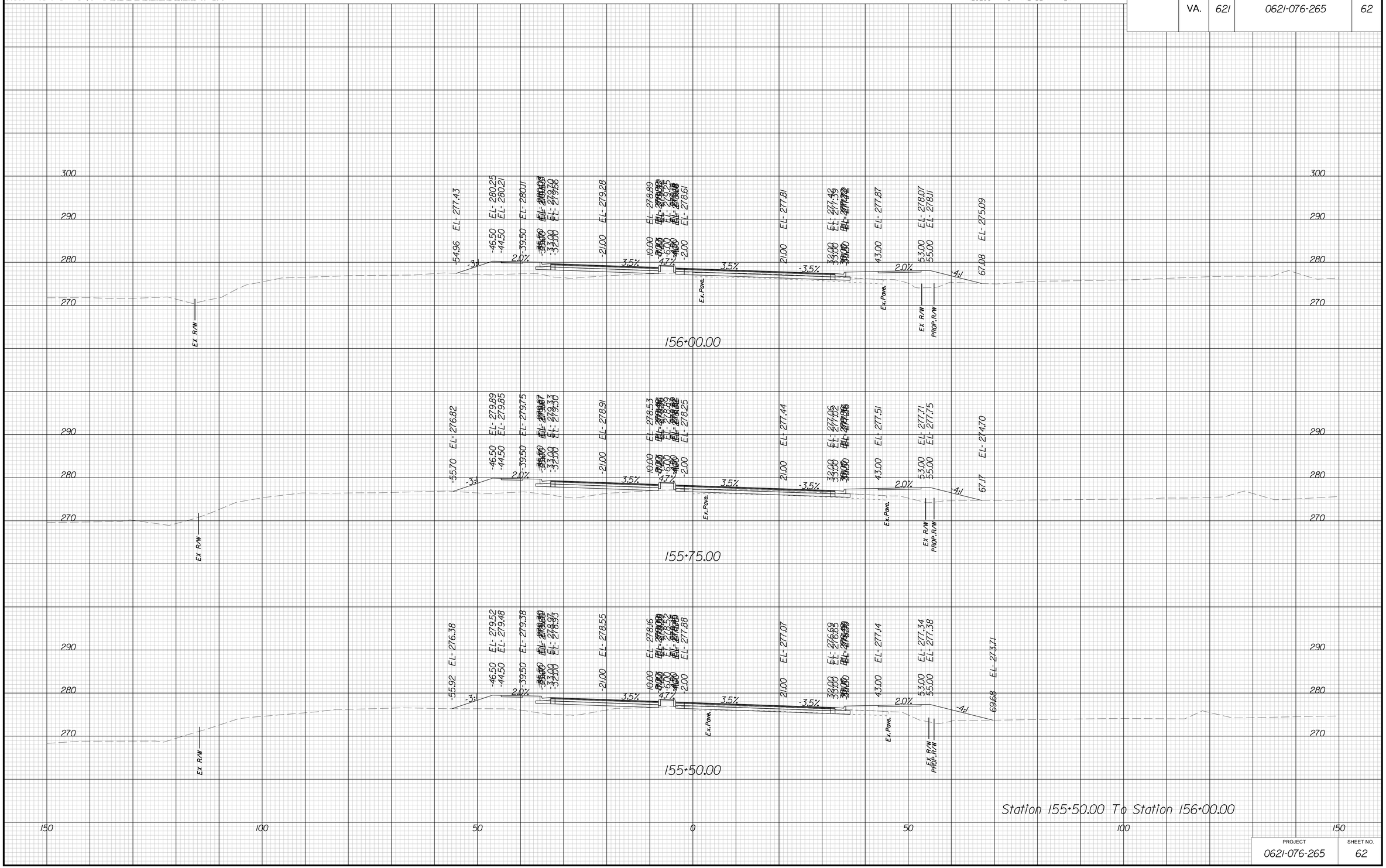
PROJECT MANAGER VDOT: Khatab Shammout, P.E. (703) 792-7193
SURVEYED BY, DATE HDA: Efren Cipriano LS (703) 334-3302 September 2018
DESIGN BY HDA: Mark A. Gum, P.E. (703) 334-3288
SUBSURFACE UTILITY BY, DATE Accumark (703) 378-0100 November 2018

CROSS SECTIONS

SCALE 1 IN. = 10 FT

DESIGN 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 ROUTE	STATE PROJECT	SHEET NO.
	VA.	621	0621-076-265	62



Station 155+50.00 To Station 156+00.00

PROJECT	SHEET NO.
0621-076-265	62

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

P.H. PLANS

3/22/2019
1:59:34 PM

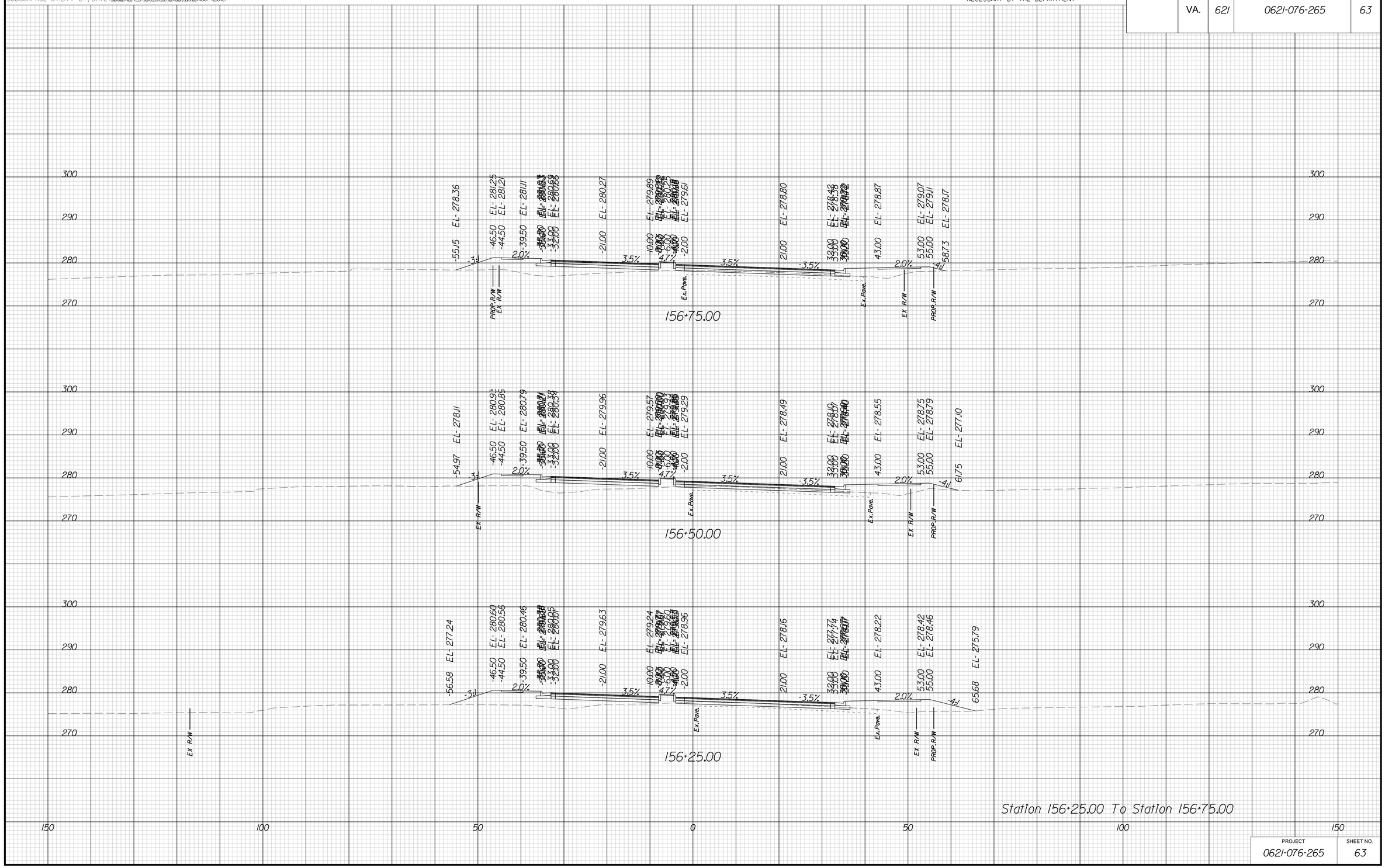
PROJECT MANAGER VDOT: Khatab Shammout, P.E. (703) 792-7193
SURVEYED BY, DATE HDA: Efren Cipriano LS (703) 334-3302 September 2018
DESIGN BY HDA: Mark A. Gum, P.E. (703) 334-3288
SUBSURFACE UTILITY BY, DATE Accumark (703) 378-0100 November 2018

CROSS SECTIONS

SCALE 1 IN. = 10 FT

DESIGN 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 ROUTE	STATE PROJECT	SHEET NO.
	VA.	621	0621-076-265	63



PROJECT	SHEET NO.
0621-076-265	63

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

P.H. PLANS

3/22/2019
1:59:38 PM

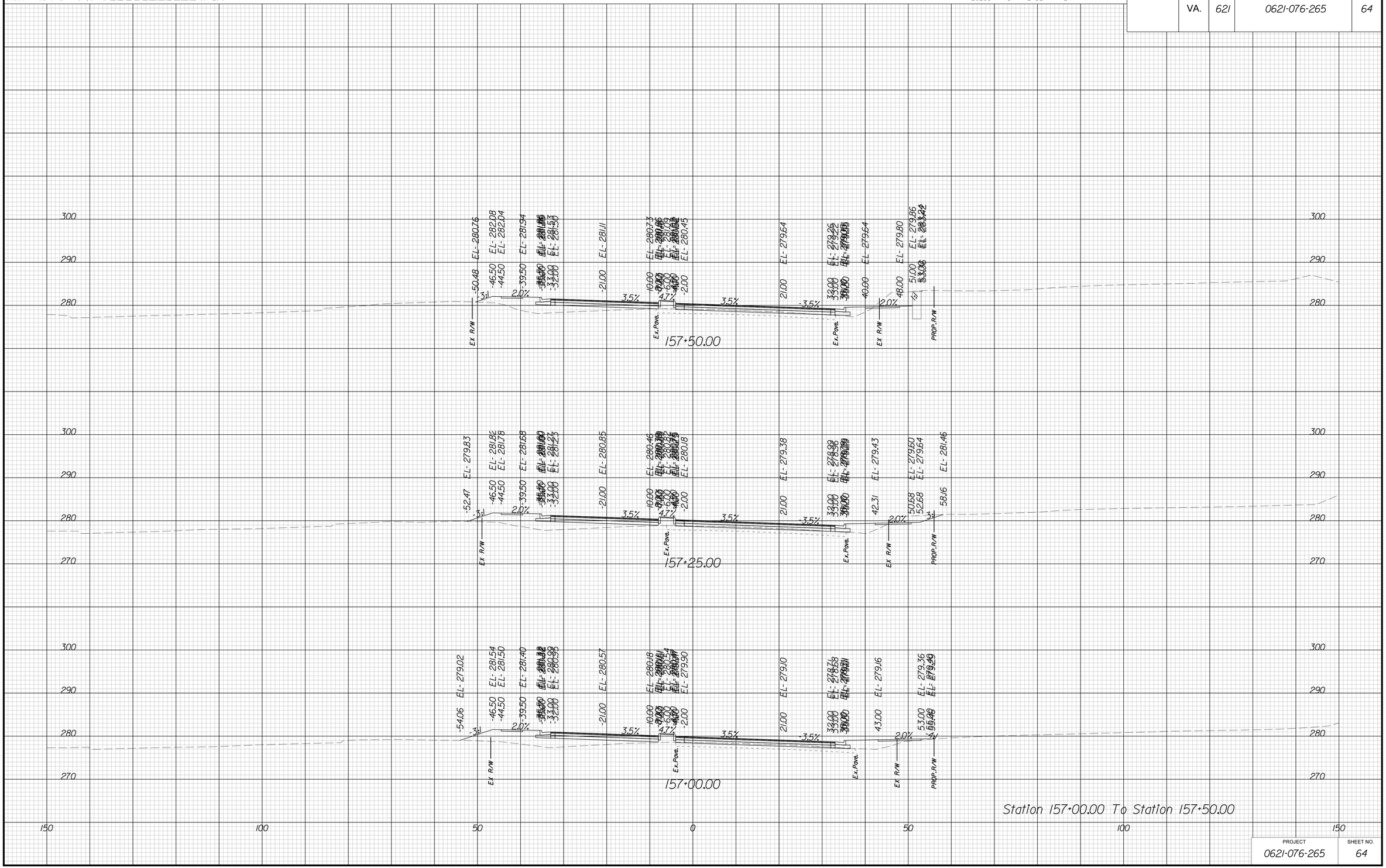
PROJECT MANAGER BWCDOT: Khattab Shamaout, P.E. (703) 792-7193
SURVEYED BY, DATE RDA: Ryan Drexilla, LS (703) 334-9302; September 2018
DESIGN BY RDA: Mack A. Guna, P.E. (703) 334-9288
SUBSURFACE UTILITY BY, DATE Accumark (703) 378-0100; November 2018

CROSS SECTIONS

SCALE 1 IN. = 10 FT

DESIGN 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 ROUTE	STATE PROJECT	SHEET NO.
	VA.	621	0621-076-265	64



PROJECT	SHEET NO.
0621-076-265	64

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

P.H. PLANS

3/22/2019
1:59:43 PM

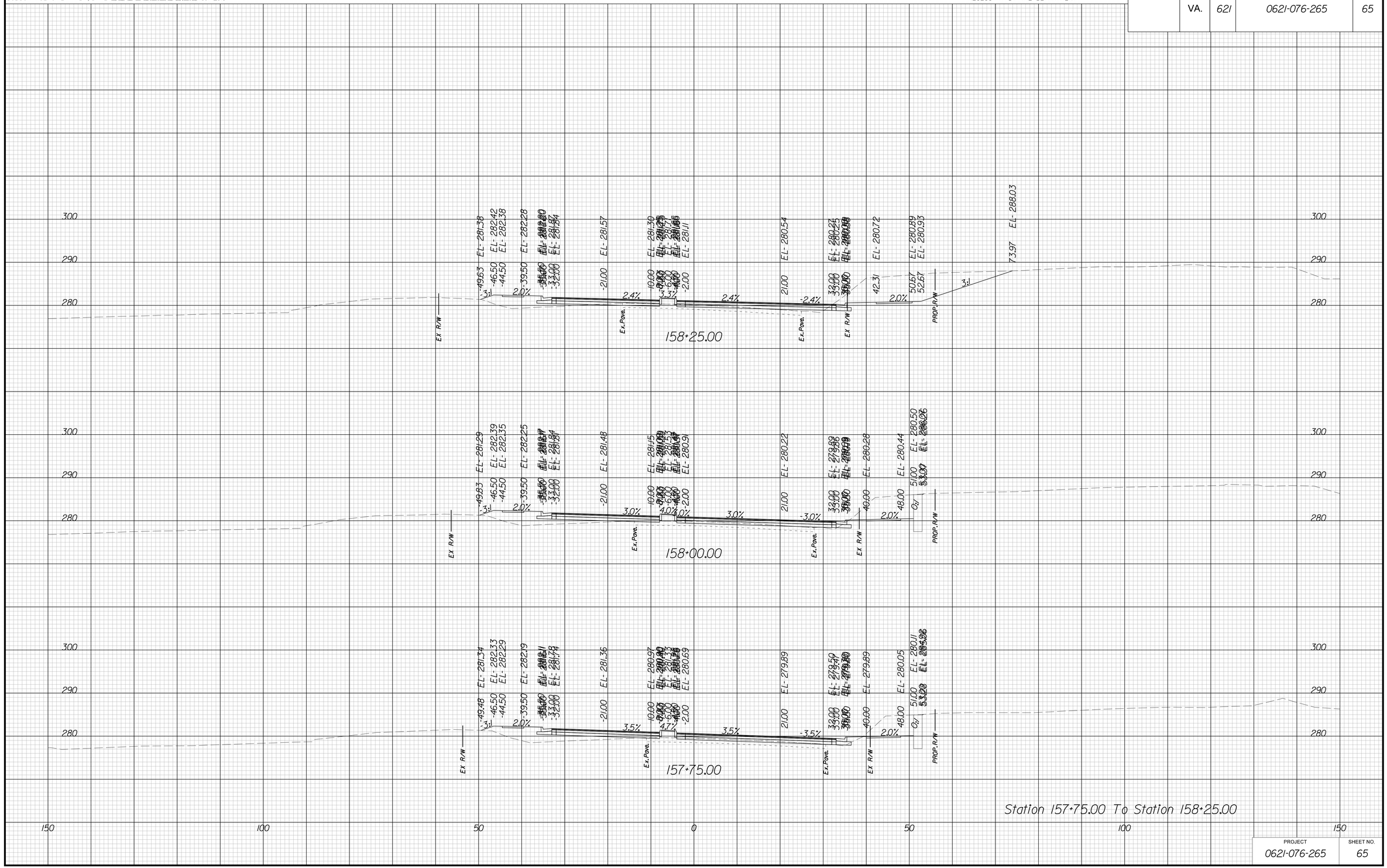
PROJECT MANAGER BWCDOT: Khattab Shamaout, P.E. (703) 792-7193
SURVEYED BY, DATE RDA: Ryan Dreella, LS (703) 334-9302; September 2018
DESIGN BY RDA: Mack A. Guna, P.E. (703) 334-9288
SUBSURFACE UTILITY BY, DATE Accumark (703) 378-0100; November 2018

CROSS SECTIONS

SCALE 1 IN. = 10 FT

DESIGN 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 ROUTE	STATE PROJECT	SHEET NO.
	VA.	621	0621-076-265	65



PROJECT	SHEET NO.
0621-076-265	65

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

P.H. PLANS

3/22/2019
1:59:48 PM

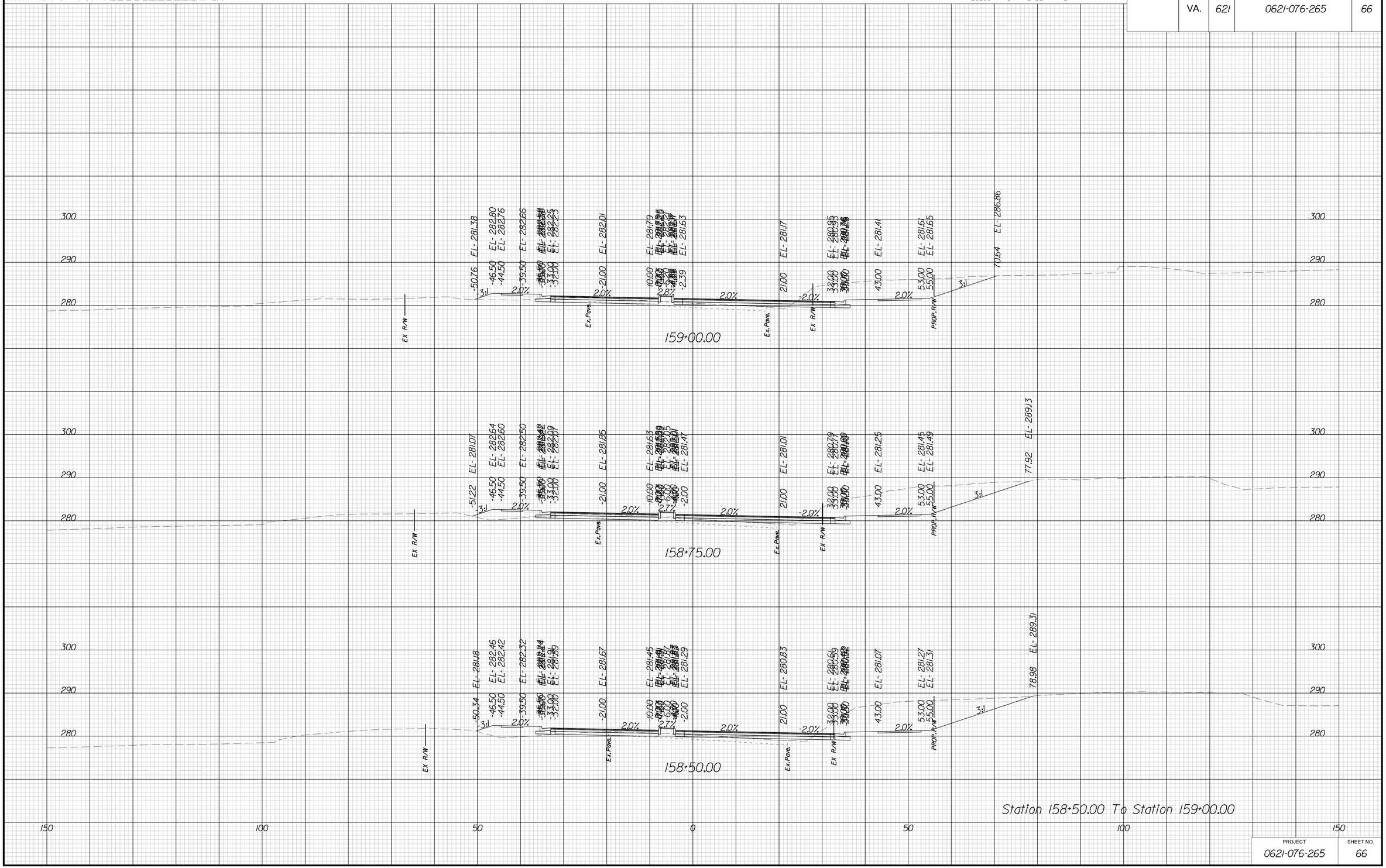
PROJECT MANAGER BWCDOT: Khattab Shamaout, P.E. (703) 792-7193
SURVEYED BY, DATE RDA: Ryan Drella, LS (703) 334-9302; September 2018
DESIGN BY RDA: Mark A. Gunn, P.E. (703) 334-9288
SUBSURFACE UTILITY BY, DATE Accumark (703) 378-0100; November 2018

CROSS SECTIONS

SCALE 1 IN. = 10 FT

DESIGN 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 ROUTE	STATE PROJECT	SHEET NO.
	VA.	621	0621-076-265	66



PROJECT	SHEET NO.
0621-076-265	66

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

P.H. PLANS

3/22/2019
1:59:53 PM

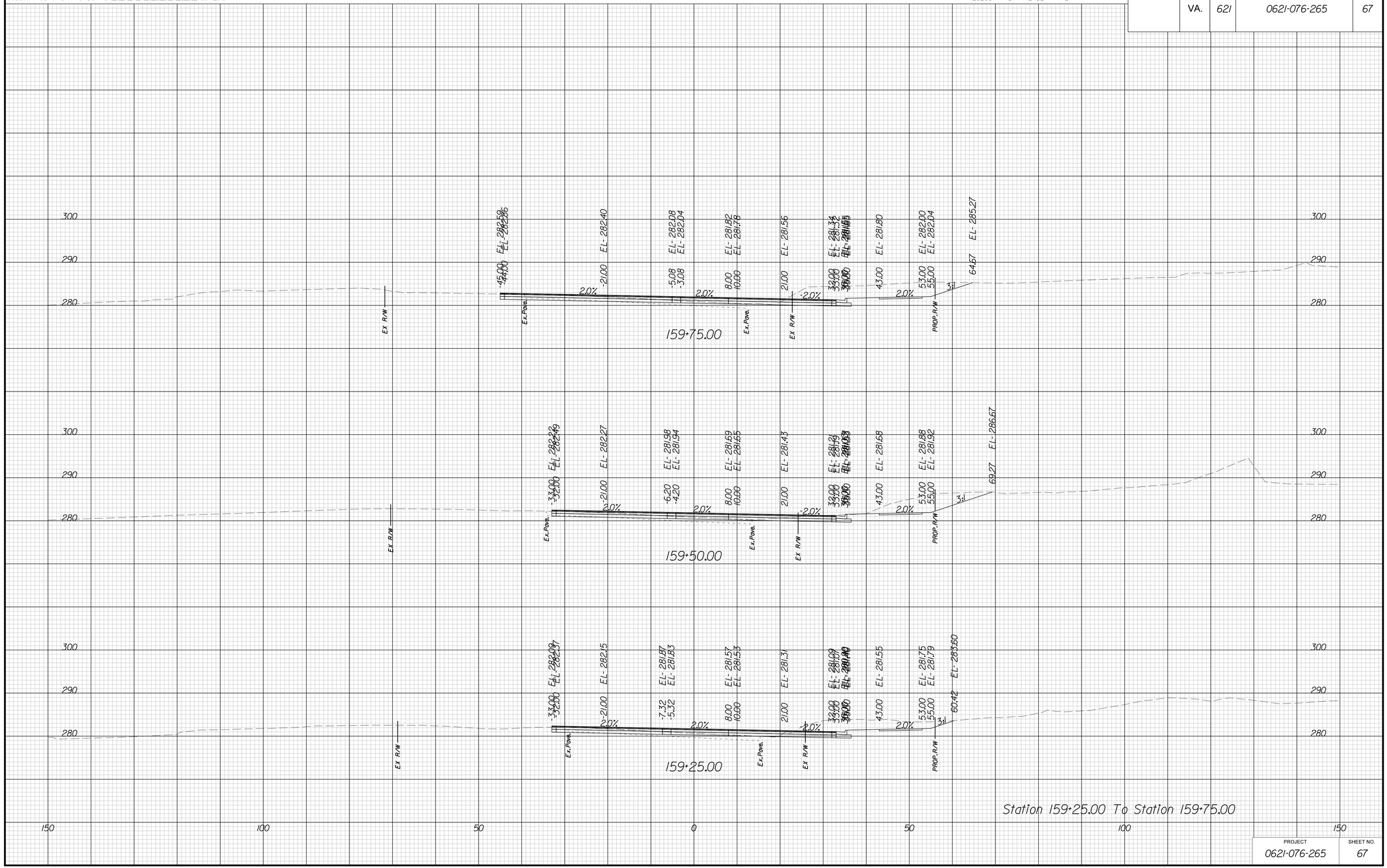
PROJECT MANAGER BWCDOT: Khattab Shamaout, P.E. (703) 792-7193
SURVEYED BY, DATE RDA: Ryan Dreella, LS (703) 334-9302; September 2018
DESIGN BY RDA: Mark A. Gunn, P.E. (703) 334-9288
SUBSURFACE UTILITY BY, DATE Accumark (703) 378-0100; November 2018

CROSS SECTIONS

SCALE 1 IN. = 10 FT

DESIGN 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 ROUTE	STATE PROJECT	SHEET NO.
	VA.	621	0621-076-265	67



Station 159+25.00 To Station 159+75.00

PROJECT	SHEET NO.
0621-076-265	67

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

P.H. PLANS

3/22/2019
1:59:57 PM

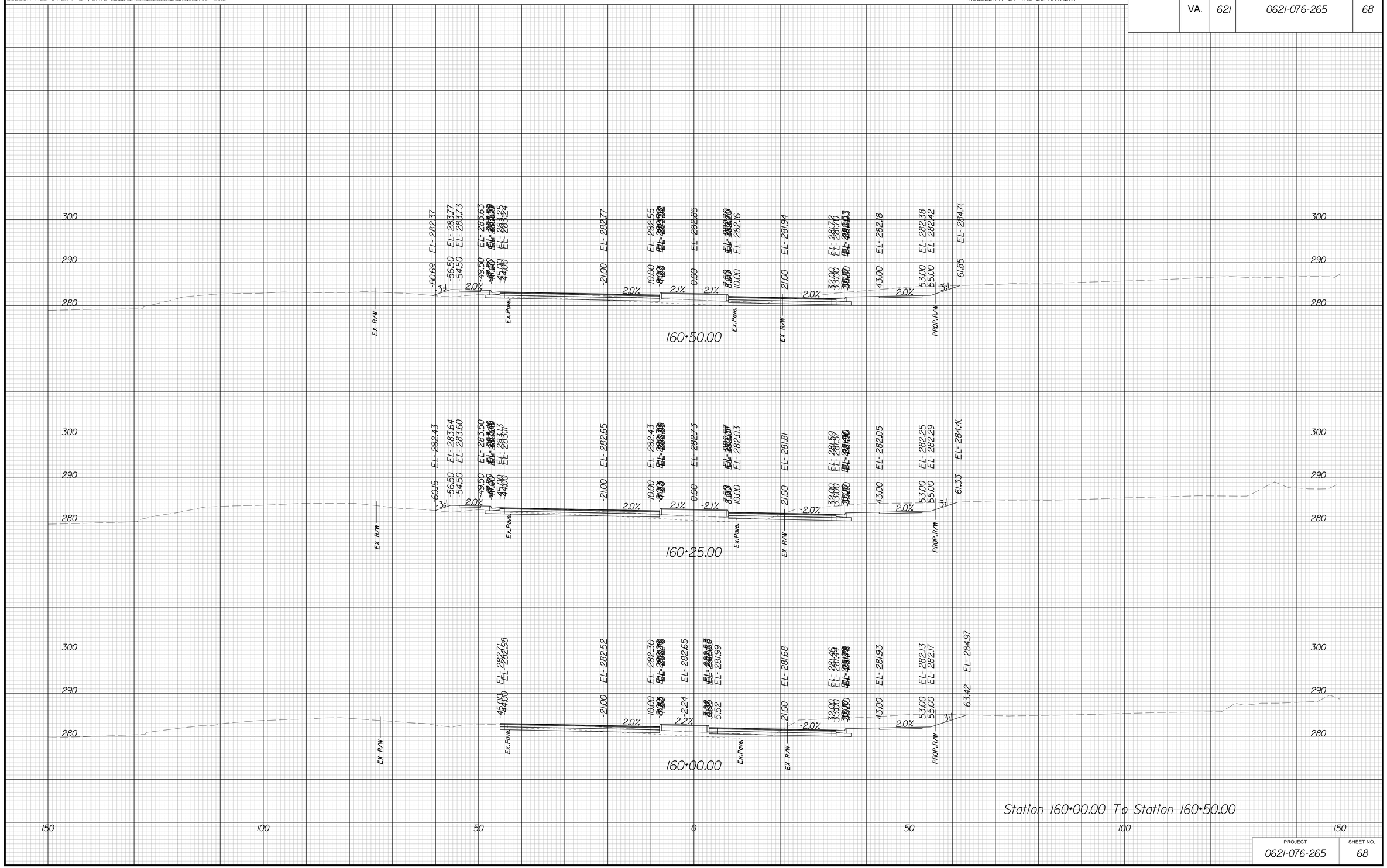
PROJECT MANAGER BWCDOT:Khattab Shamaout,P.E.(703)792-7193
SURVEYED BY, DATE RDA: Ryan Dreella, LS (703)334-9302; September 2018
DESIGN BY RDA: Mack A.Guna, P.E (703)334-9288
SUBSURFACE UTILITY BY, DATE Accumark (703) 378-0100; November 2018

CROSS SECTIONS

SCALE 1 IN. = 10 FT

DESIGN 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 ROUTE	STATE PROJECT	SHEET NO.
	VA.	621	0621-076-265	68



Station 160+00.00 To Station 160+50.00

PROJECT	SHEET NO.
0621-076-265	68

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

P.H. PLANS

3/22/2019
2:00:02 PM

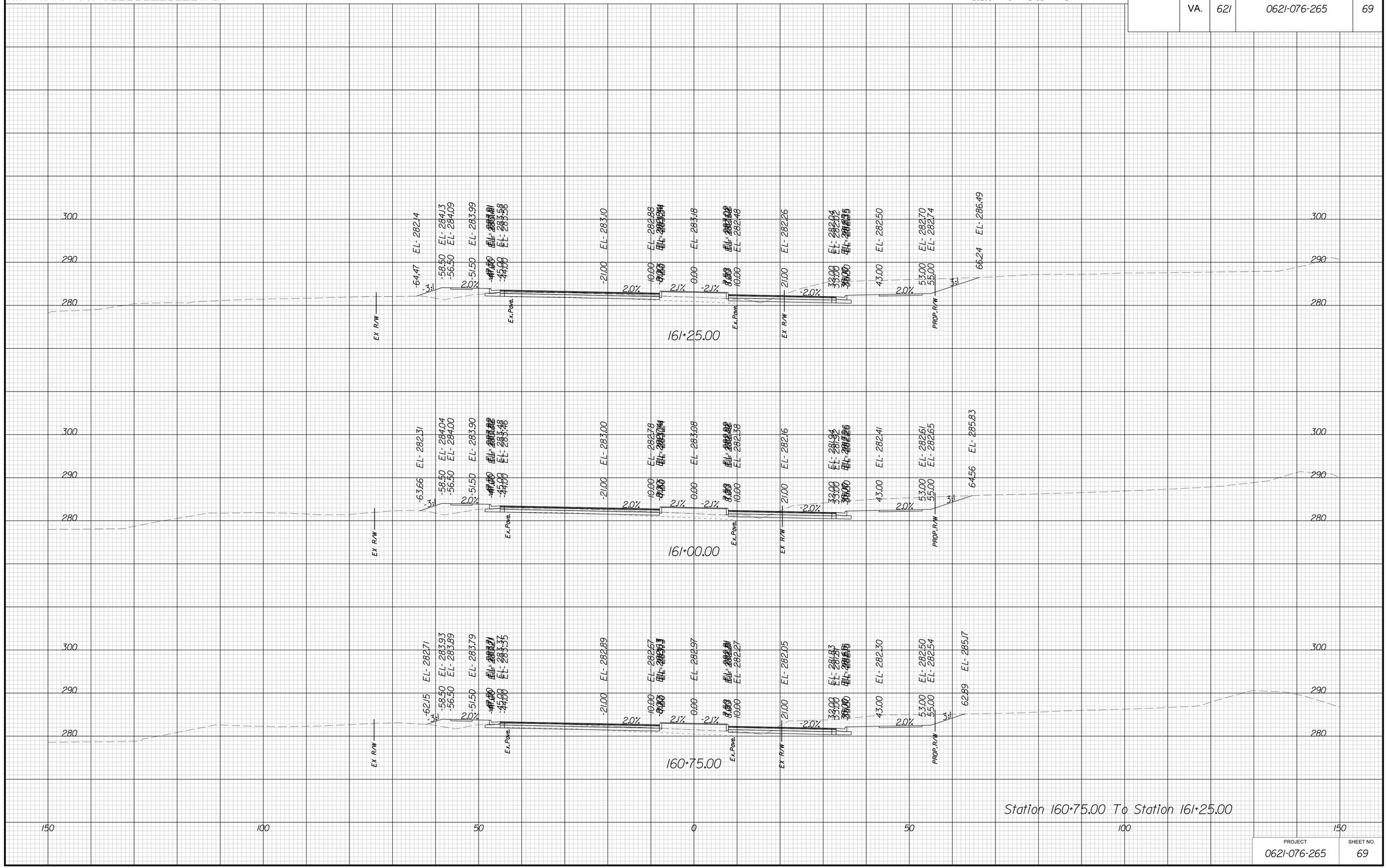
PROJECT MANAGER BWCDOT: Khattab Shamaout, P.E. (703) 792-7193
SURVEYED BY, DATE RDA: Ryan Drexilla, LS (703) 334-9302; September 2018
DESIGN BY RDA: Mack A. Guna, P.E. (703) 334-9288
SUBSURFACE UTILITY BY, DATE Accumark (703) 378-0100; November 2018

CROSS SECTIONS

SCALE 1 IN. = 10 FT

DESIGN 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 ROUTE	STATE PROJECT	SHEET NO.
	VA.	621	0621-076-265	69



PROJECT	SHEET NO.
0621-076-265	69

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

P.H. PLANS

3/22/2019
2:00:07 PM

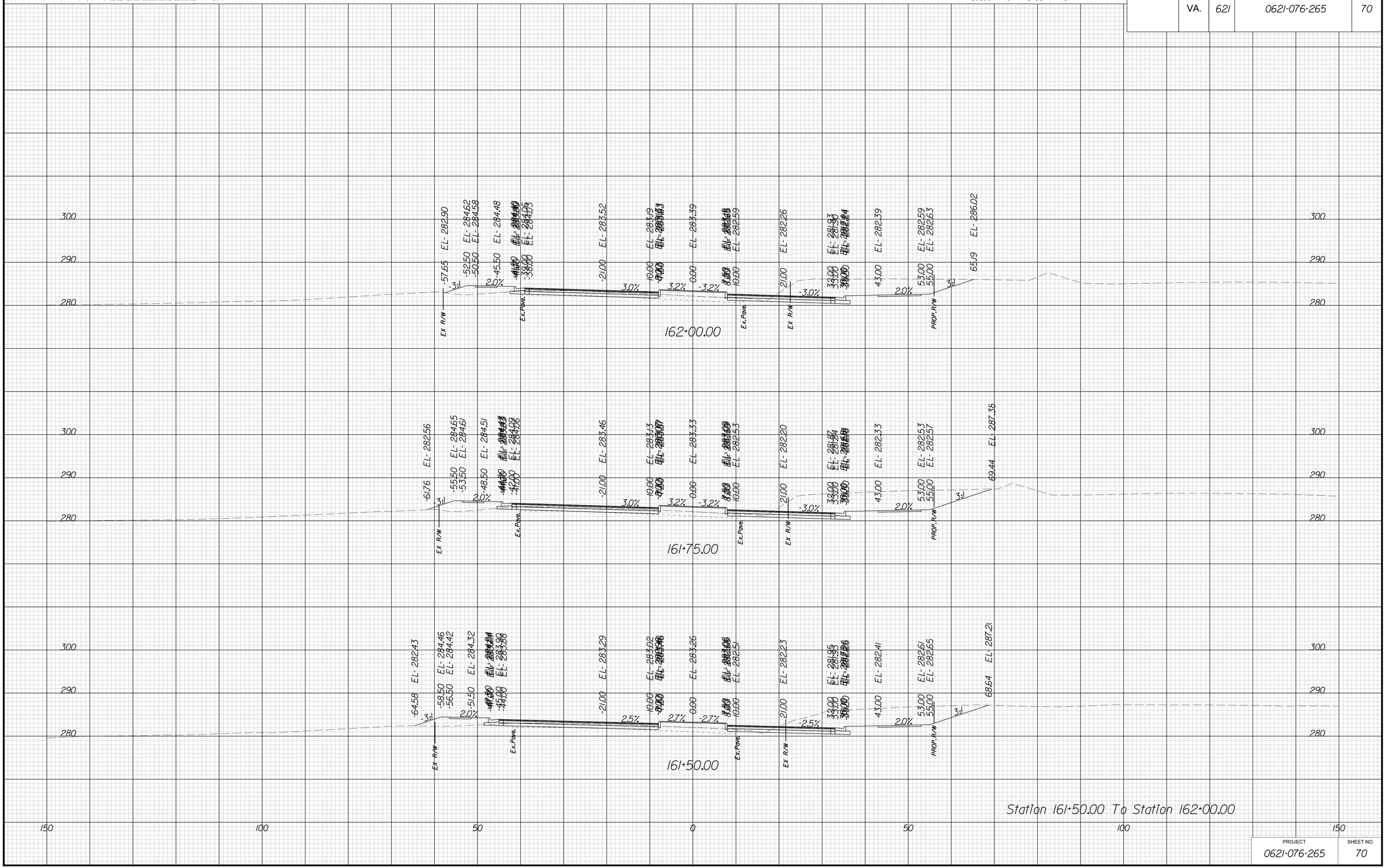
PROJECT MANAGER BWCDOT: Khattab Shamaout, P.E. (703) 792-7193
SURVEYED BY, DATE RDA: Ryan Drexilla, LS (703) 334-9302; September 2018
DESIGN BY RDA: Mack A. Guna, P.E. (703) 334-9288
SUBSURFACE UTILITY BY, DATE Accumark (703) 378-0100; November 2018

CROSS SECTIONS

SCALE 1 IN. = 10 FT

DESIGN 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 ROUTE	STATE PROJECT	SHEET NO.
	VA.	621	0621-076-265	70



PROJECT	SHEET NO.
0621-076-265	70

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

P.H. PLANS

3/22/2019
2:00:11 PM

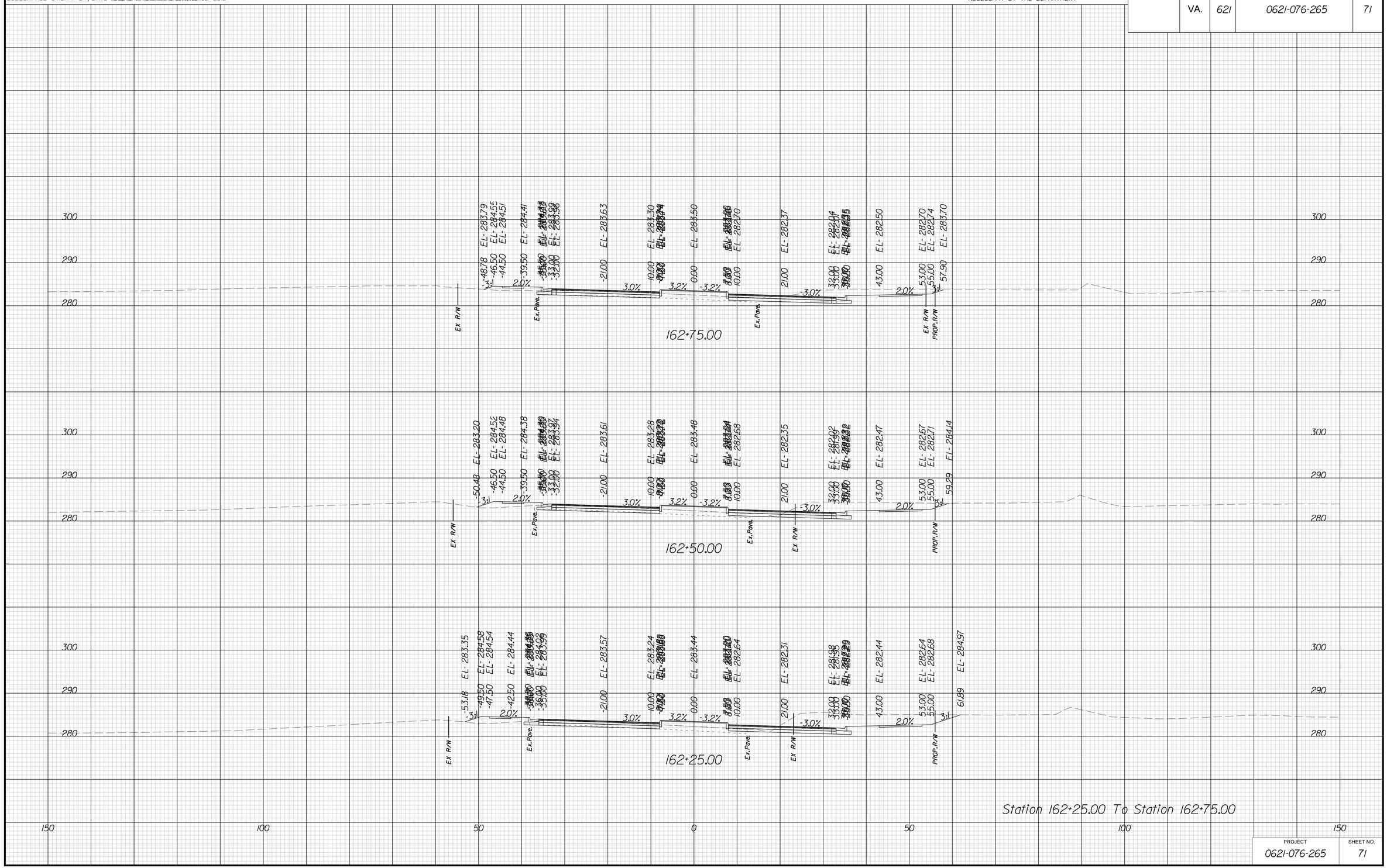
PROJECT MANAGER BWCDOT: Khattab Shamaout, P.E. (703) 792-7193
SURVEYED BY, DATE RDA: Ryan Drexilla, LS (703) 334-9302; September 2018
DESIGN BY RDA: Mark A. Gunn, P.E. (703) 334-9288
SUBSURFACE UTILITY BY, DATE Accumark (703) 378-0100; November 2018

CROSS SECTIONS

SCALE 1 IN. = 10 FT

DESIGN 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 ROUTE	STATE PROJECT	SHEET NO.
	VA.	621	0621-076-265	71



PROJECT	SHEET NO.
0621-076-265	71

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

P.H. PLANS

3/22/2019
2:00:46 PM

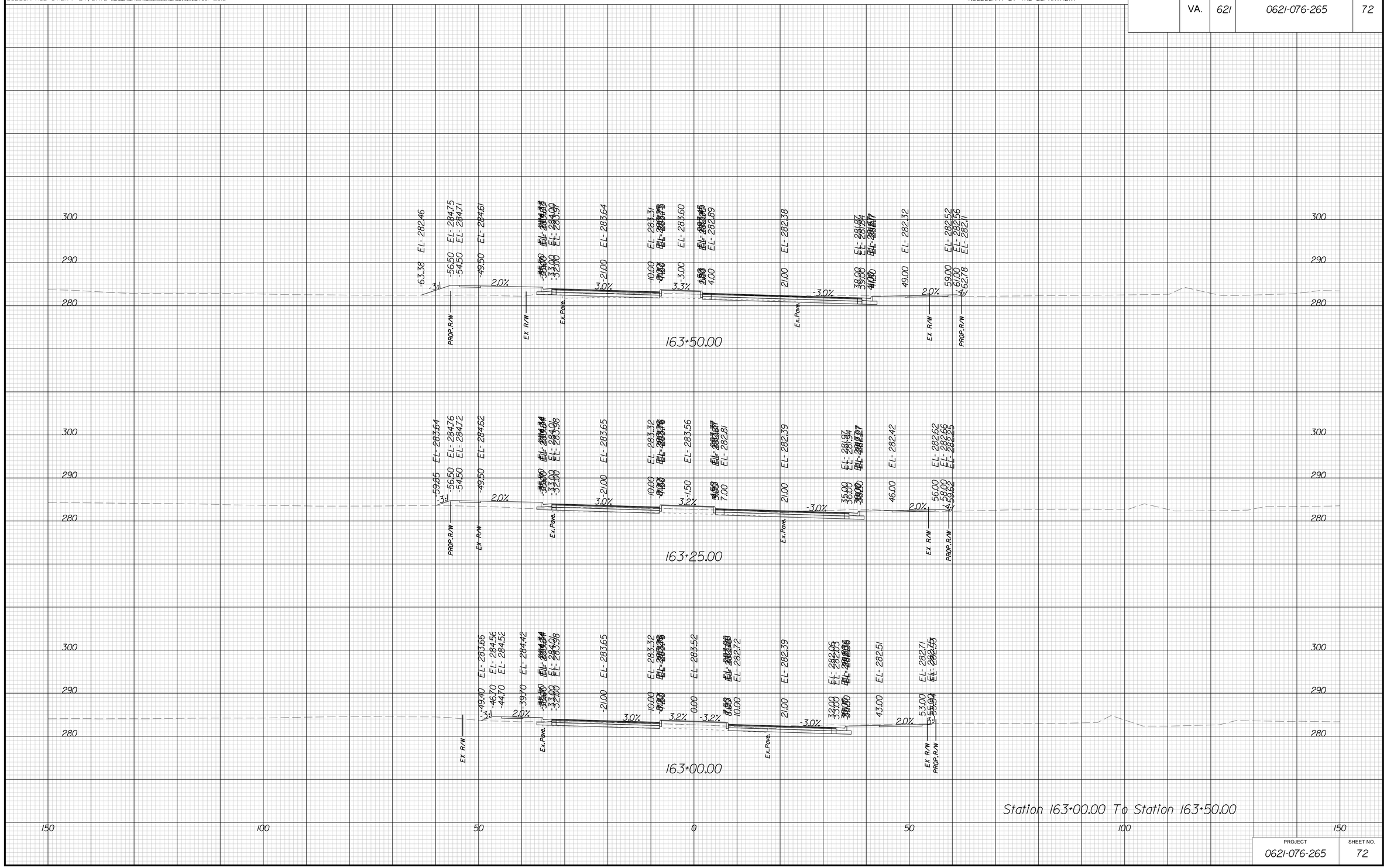
PROJECT MANAGER BWCDOT: Khattab Shamaout, P.E. (703) 792-7193
SURVEYED BY, DATE RDA: Ryan Drexilla, LS (703) 334-9302; September 2018
DESIGN BY RDA: Mack A. Guna, P.E. (703) 334-9288
SUBSURFACE UTILITY BY, DATE Accumark (703) 378-0100; November 2018

CROSS SECTIONS

SCALE 1 IN. = 10 FT

DESIGN 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 ROUTE	STATE PROJECT	SHEET NO.
	VA.	621	0621-076-265	72



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

P.H. PLANS

PROJECT	SHEET NO.
0621-076-265	72

3/22/2019
2:00:21 PM

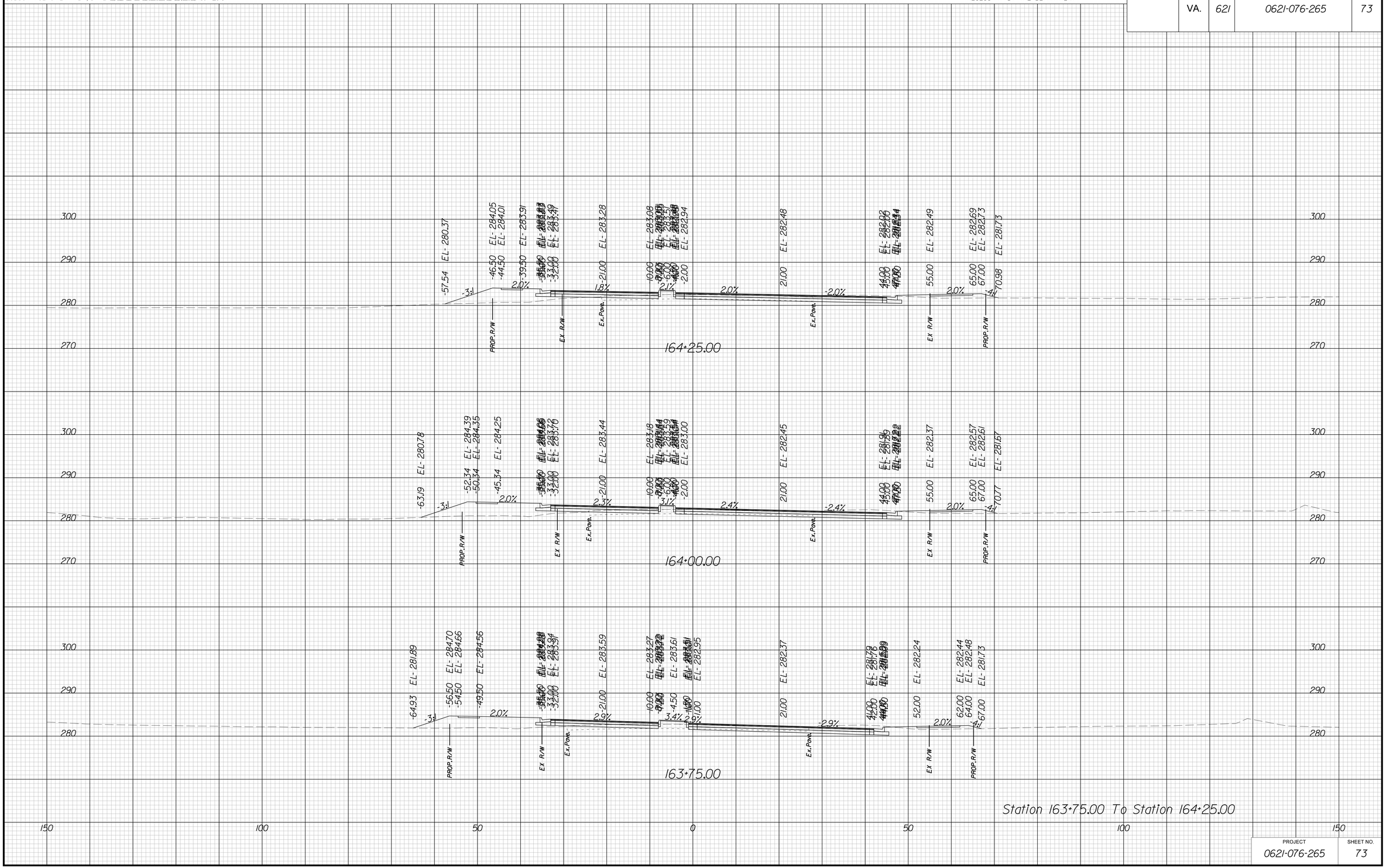
PROJECT MANAGER BWCDOT: Khattab Shamaout, P.E. (703) 792-7193
SURVEYED BY, DATE RDA: Ryan Dreella, LS (703) 334-9302; September 2018
DESIGN BY RDA: Mack A. Guna, P.E. (703) 334-9288
SUBSURFACE UTILITY BY, DATE Accumark (703) 378-0100; November 2018

CROSS SECTIONS

SCALE 1 IN. = 10 FT

DESIGN 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 ROUTE	STATE PROJECT	SHEET NO.
	VA.	621	0621-076-265	73



PROJECT	SHEET NO.
0621-076-265	73

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

P.H. PLANS

3/22/2019
2:00:26 PM

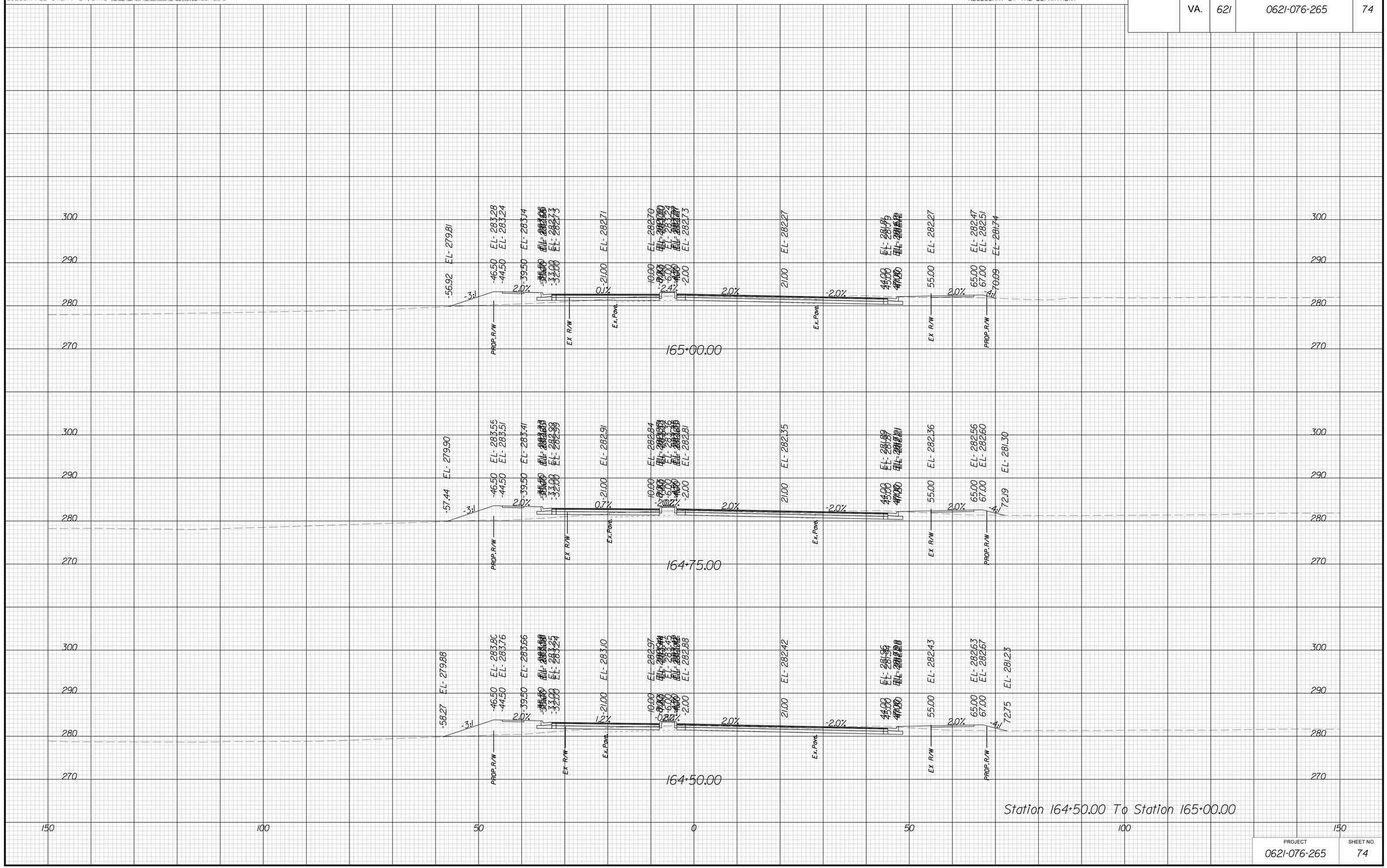
PROJECT MANAGER BWCDOT: Khattab Shamaout, P.E. (703) 792-7193
SURVEYED BY, DATE RDA: Ryan Drexilla, LS (703) 334-9302; September 2018
DESIGN BY RDA: Mark A. Gunn, P.E. (703) 334-9288
SUBSURFACE UTILITY BY, DATE Accumark (703) 378-0100; November 2018

CROSS SECTIONS

SCALE 1 IN. = 10 FT

DESIGN 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 ROUTE	STATE PROJECT	SHEET NO.
	VA.	621	0621-076-265	74



PROJECT	SHEET NO.
0621-076-265	74

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

P.H. PLANS

3/22/2019
2:00:30 PM

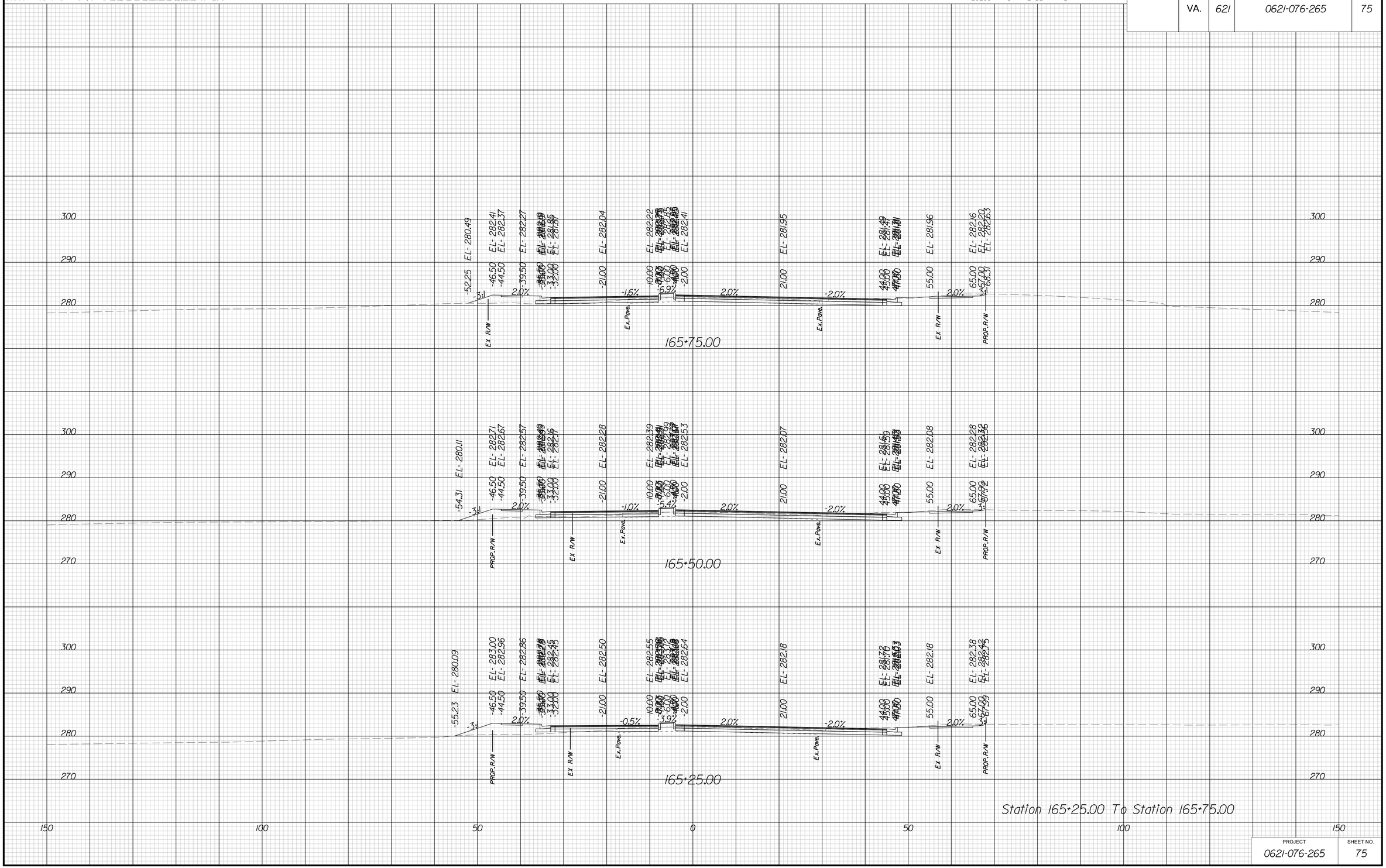
PROJECT MANAGER BWCDOT: Khattab Shamaout, P.E. (703) 792-7193
SURVEYED BY, DATE RDA: Ryan Drexilla, LS (703) 334-9302; September 2018
DESIGN BY RDA: Mack A. Guna, P.E. (703) 334-9288
SUBSURFACE UTILITY BY, DATE Accumark (703) 378-0100; November 2018

CROSS SECTIONS

SCALE 1 IN. = 10 FT

DESIGN 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 ROUTE	STATE PROJECT	SHEET NO.
	VA.	621	0621-076-265	75



PROJECT	SHEET NO.
0621-076-265	75

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

P.H. PLANS

3/22/2019
2:00:35 PM

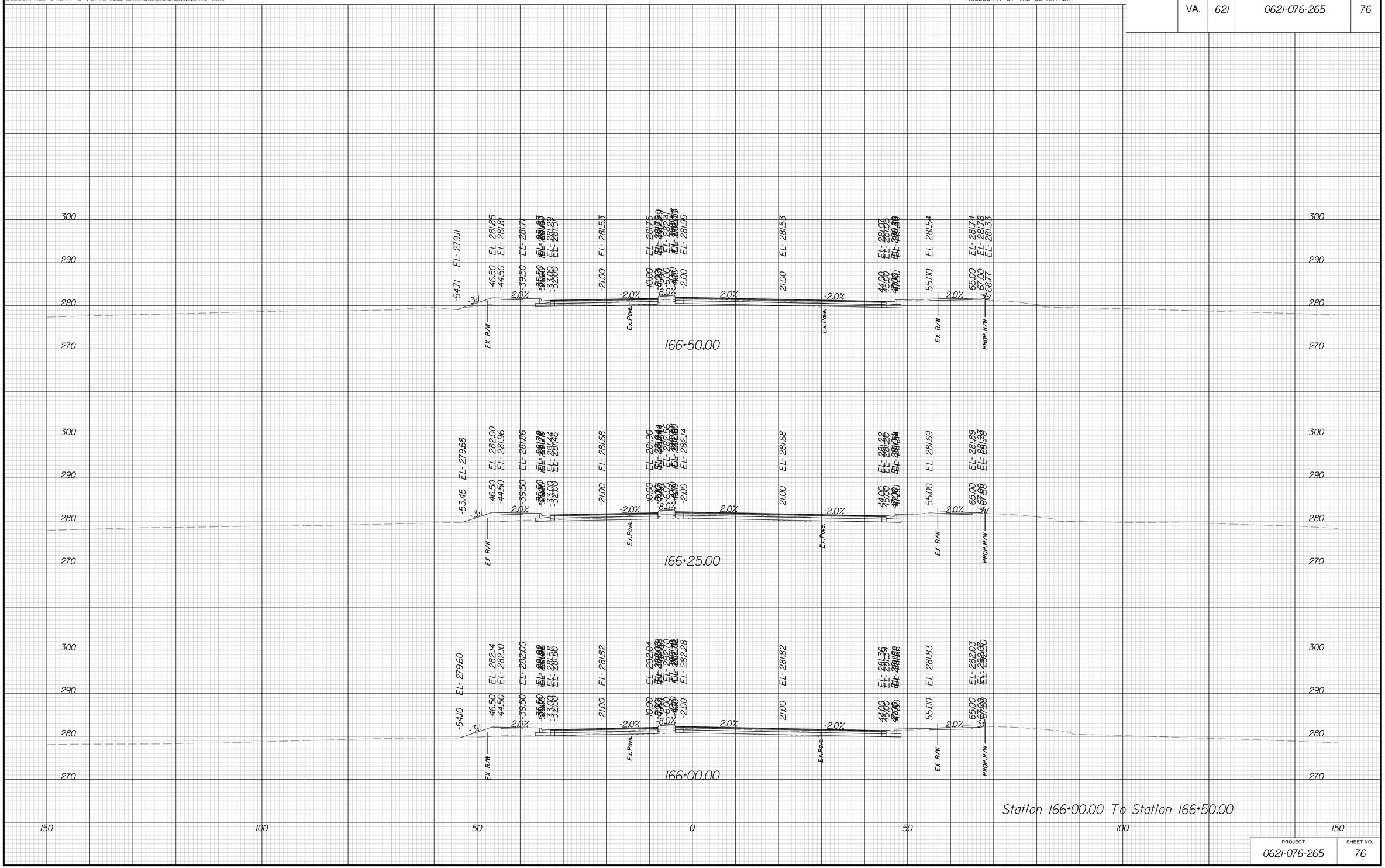
PROJECT MANAGER BWCDOT: Khattab Shamaout, P.E. (703) 792-7193
SURVEYED BY, DATE RDA: Ryan Drexilla, LS (703) 334-9302; September 2018
DESIGN BY RDA: Mack A. Guna, P.E. (703) 334-9288
SUBSURFACE UTILITY BY, DATE Accumark (703) 378-0100; November 2018

CROSS SECTIONS

SCALE 1 IN. = 10 FT

DESIGN 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 ROUTE	STATE PROJECT	SHEET NO.
	VA.	621	0621-076-265	76



PROJECT	SHEET NO.
0621-076-265	76

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

P.H. PLANS

3/22/2019
2:00:39 PM

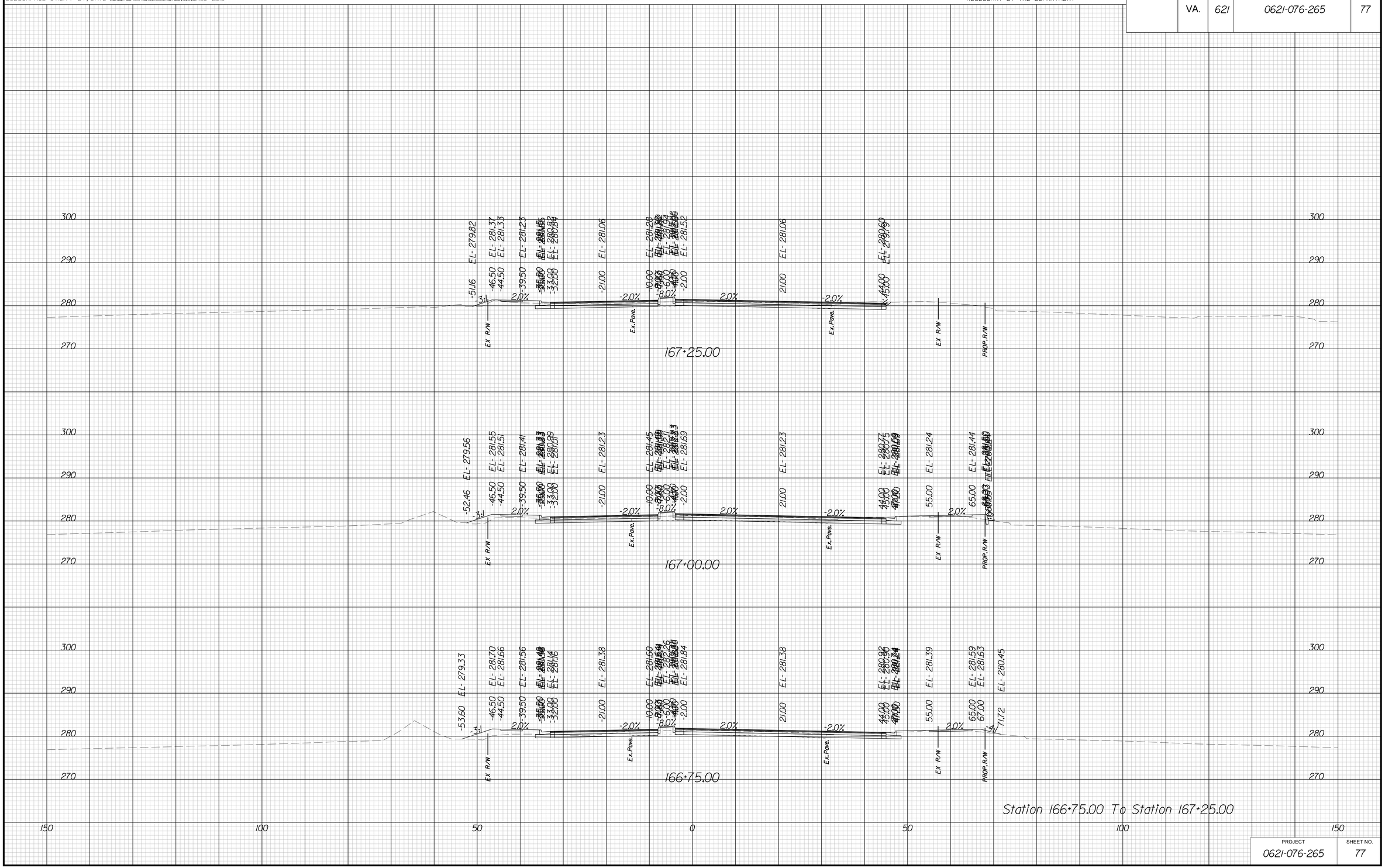
PROJECT MANAGER BWCDOT: Khattab Shamaout, P.E. (703) 792-7193
SURVEYED BY, DATE RDA: Ryan Drexilla, LS (703) 334-9302; September 2018
DESIGN BY RDA: Mack A. Guna, P.E. (703) 334-9288
SUBSURFACE UTILITY BY, DATE Accumark (703) 378-0100; November 2018

CROSS SECTIONS

SCALE 1 IN. = 10 FT

DESIGN 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 ROUTE	STATE PROJECT	SHEET NO.
	VA.	621	0621-076-265	77



PROJECT	SHEET NO.
0621-076-265	77

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

P.H. PLANS

3/22/2019
2:00:44 PM

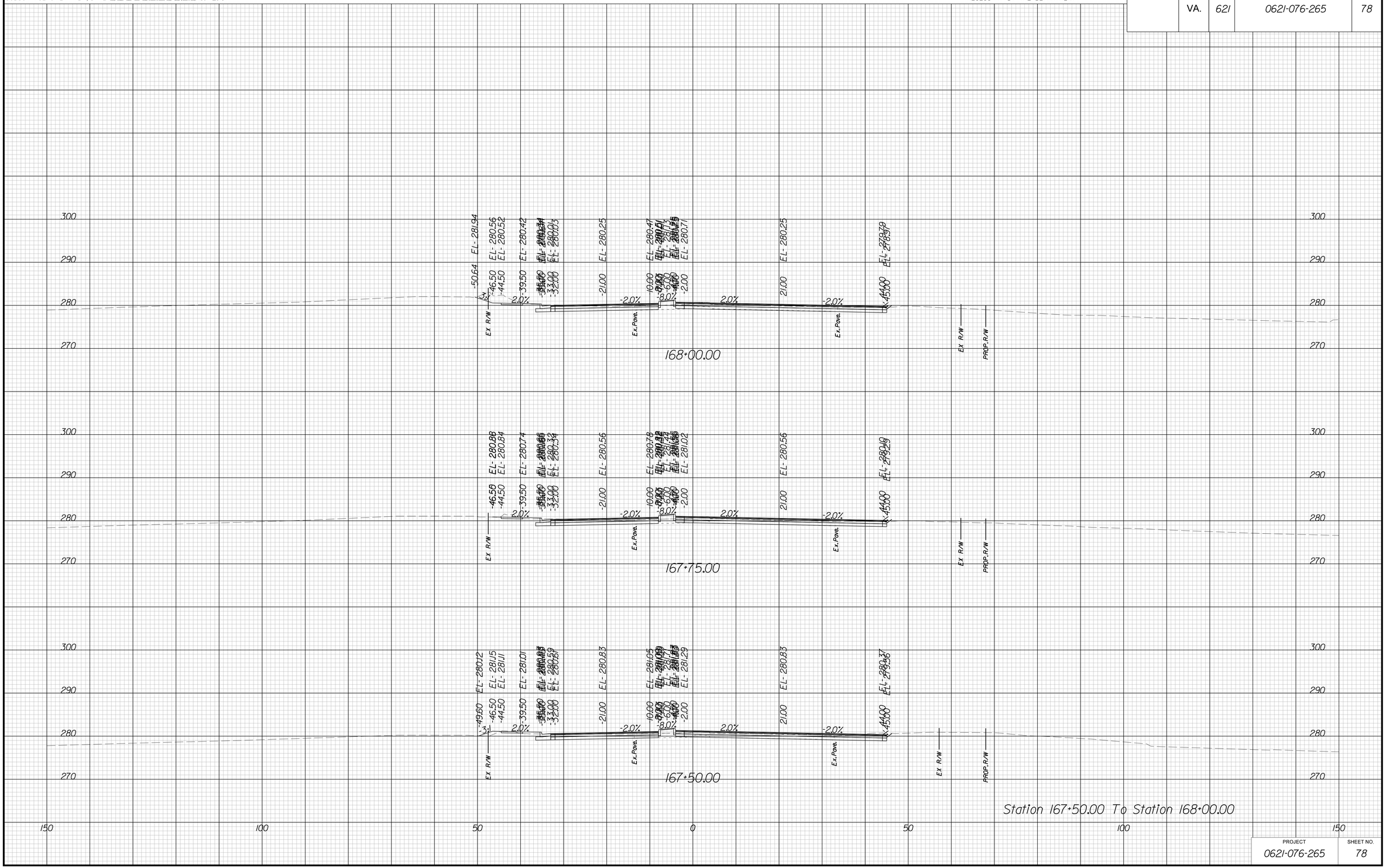
PROJECT MANAGER BWCDOT: Khattab Shamaout, P.E. (703) 792-7193
SURVEYED BY, DATE RDA: Ryan Drexilla, LS (703) 334-9302; September 2018
DESIGN BY RDA: Mark A. Gunn, P.E. (703) 334-9288
SUBSURFACE UTILITY BY, DATE Accumark (703) 378-0100; November 2018

CROSS SECTIONS

SCALE 1 IN. = 10 FT

DESIGN 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 ROUTE	STATE PROJECT	SHEET NO.
	VA.	621	0621-076-265	78



PROJECT	SHEET NO.
0621-076-265	78

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

P.H. PLANS

3/22/2019
2:00:49 PM

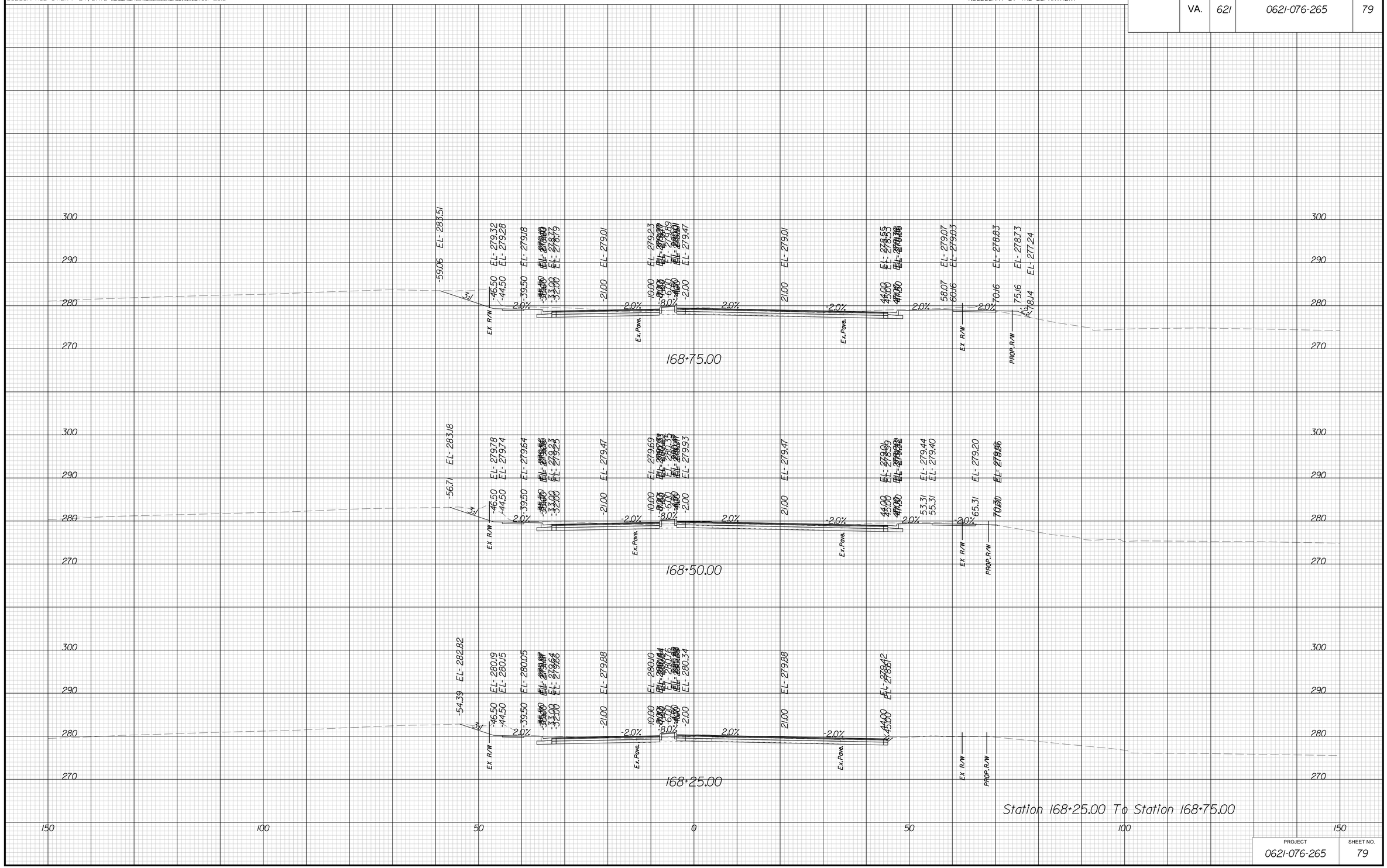
PROJECT MANAGER BWCDOT: Khattab Shamaout, P.E. (703) 792-7193
SURVEYED BY, DATE RDA: Ryan Drexilla, LS (703) 334-9302; September 2018
DESIGN BY RDA: Mark A. Gunn, P.E. (703) 334-9288
SUBSURFACE UTILITY BY, DATE Accumark (703) 378-0100; November 2018

CROSS SECTIONS

SCALE 1 IN. = 10 FT

DESIGN 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 ROUTE	STATE PROJECT	SHEET NO.
	VA.	621	0621-076-265	79



PROJECT	SHEET NO.
0621-076-265	79

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

P.H. PLANS

3/22/2019
2:00:53 PM

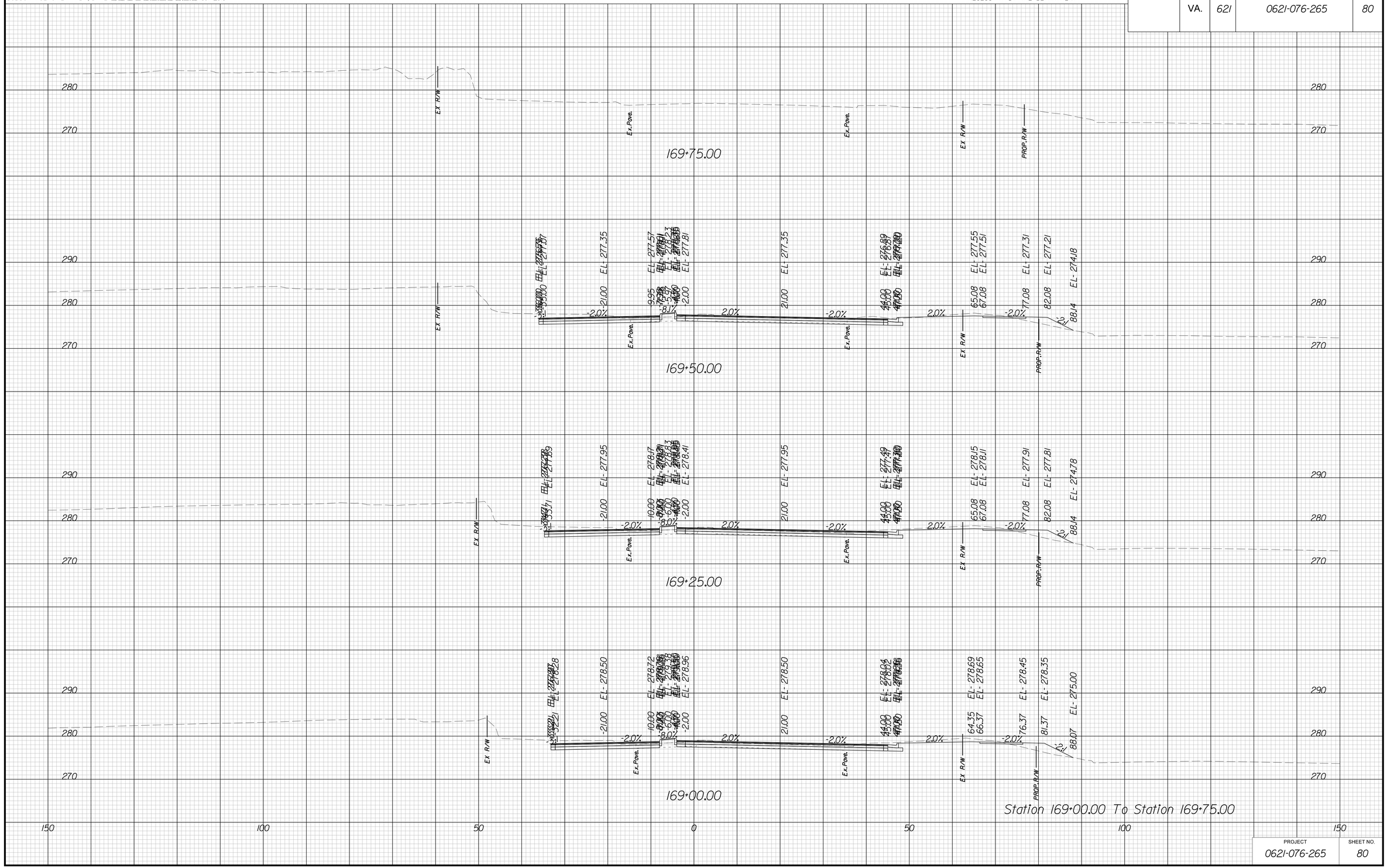
PROJECT MANAGER BWCDOT: Khattab Shamaout, P.E. (703) 792-7193
SURVEYED BY, DATE RDA: Ryan Drexilla, LS (703) 334-9302; September 2018
DESIGN BY RDA: Mark A. Gunn, P.E. (703) 334-9288
SUBSURFACE UTILITY BY, DATE Accumark (703) 378-0100; November 2018

CROSS SECTIONS

SCALE 1 IN. = 10 FT

DESIGN 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 ROUTE	STATE PROJECT	SHEET NO.
	VA.	621	0621-076-265	80



PROJECT	SHEET NO.
0621-076-265	80

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

P.H. PLANS

3/22/2019
2:00:58 PM

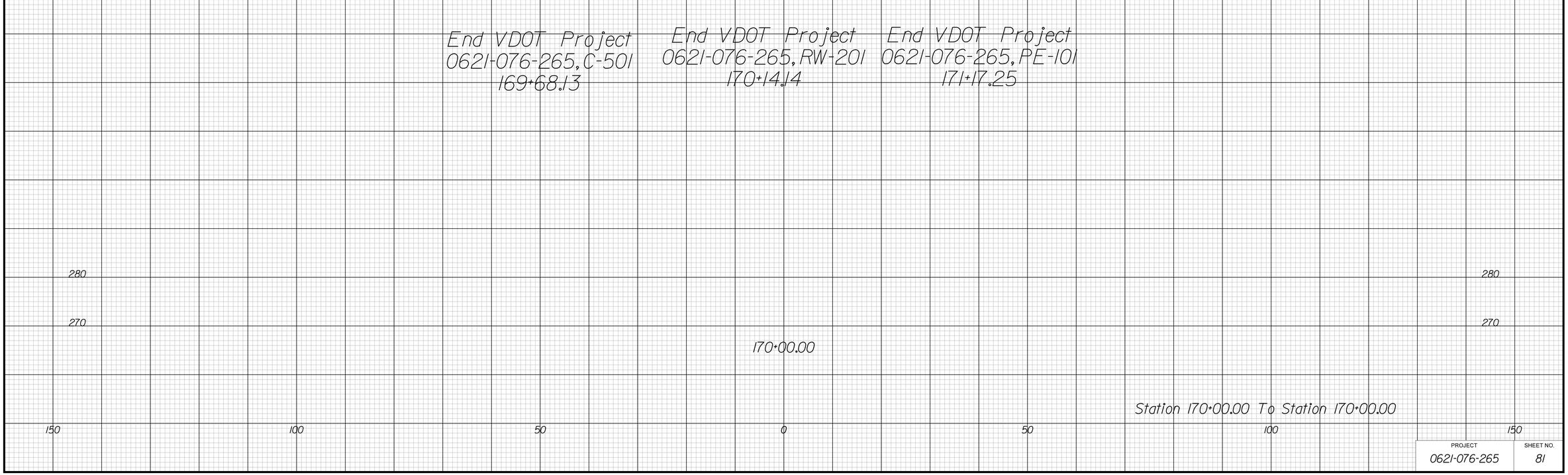
PROJECT MANAGER BWCDOT: Khattab Shamaout, P.E. (703) 792-7193
SURVEYED BY, DATE RDA: Ryan Dreella, LS (703) 334-9302; September 2018
DESIGN BY RDA: Mack A. Guna, P.E. (703) 334-9288
SUBSURFACE UTILITY BY, DATE Accumark (703) 378-0100; November 2018

CROSS SECTIONS

SCALE 1 IN. = 10 FT

DESIGN 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 ROUTE	STATE PROJECT	SHEET NO.
	VA.	621	0621-076-265	81



PROJECT	SHEET NO.
0621-076-265	81

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

P.H. PLANS

3/22/2019
2:01:00 PM

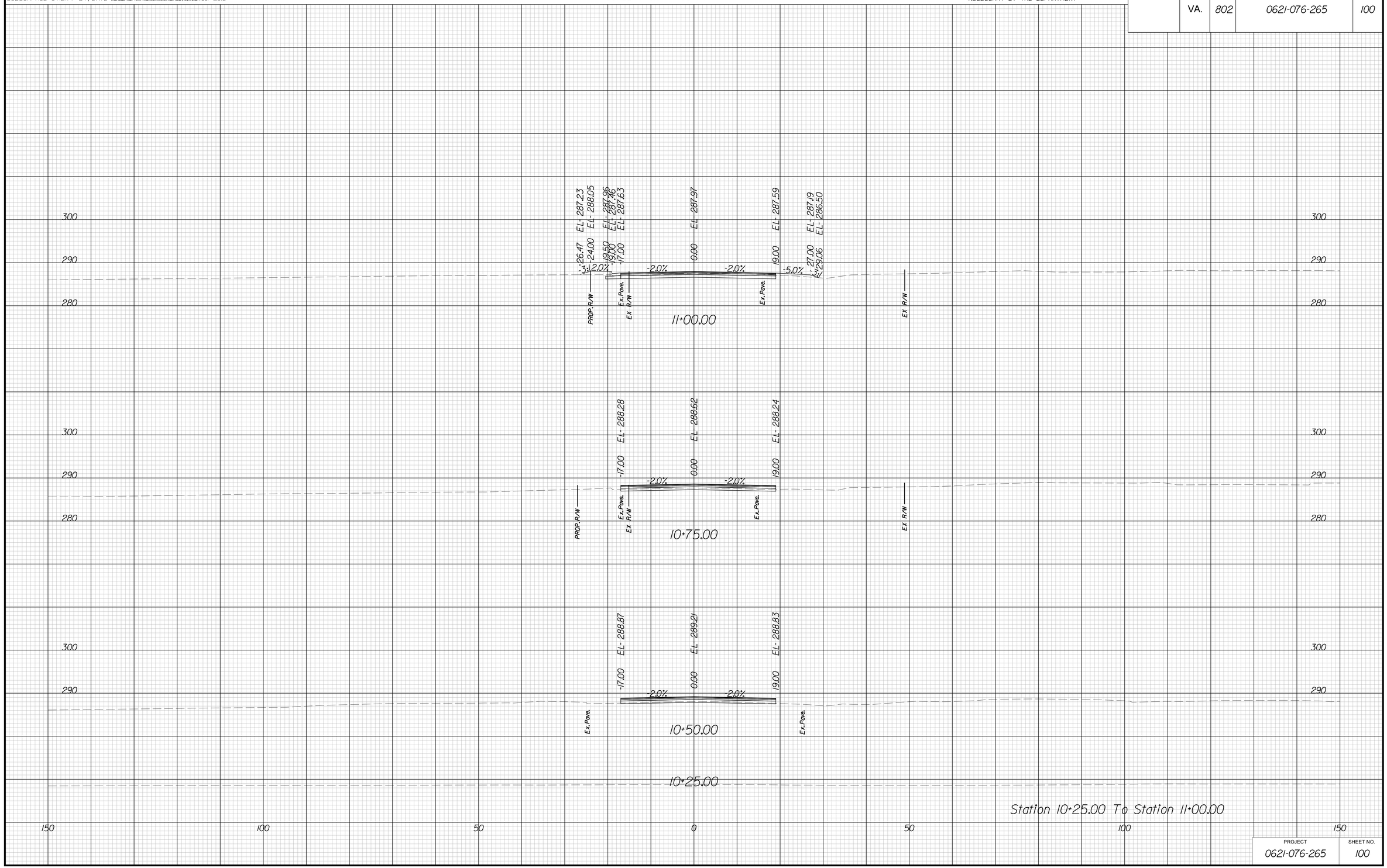
PROJECT MANAGER BWCDOT: Khattab Shamaout, P.E. (703) 792-7193
SURVEYED BY, DATE RDA: Ryan Dreella, LS (703) 334-9302; September 2018
DESIGN BY RDA: Mark A. Gunn, P.E. (703) 334-9288
SUBSURFACE UTILITY BY, DATE Accumark (703) 378-0100; November 2018

CROSS SECTIONS

SCALE 1 IN. = 10 FT

DESIGN 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 ROUTE	STATE PROJECT	SHEET NO.
	VA.	802	0621-076-265	100



PROJECT	SHEET NO.
0621-076-265	100

3/22/2019
2:01:03 PM

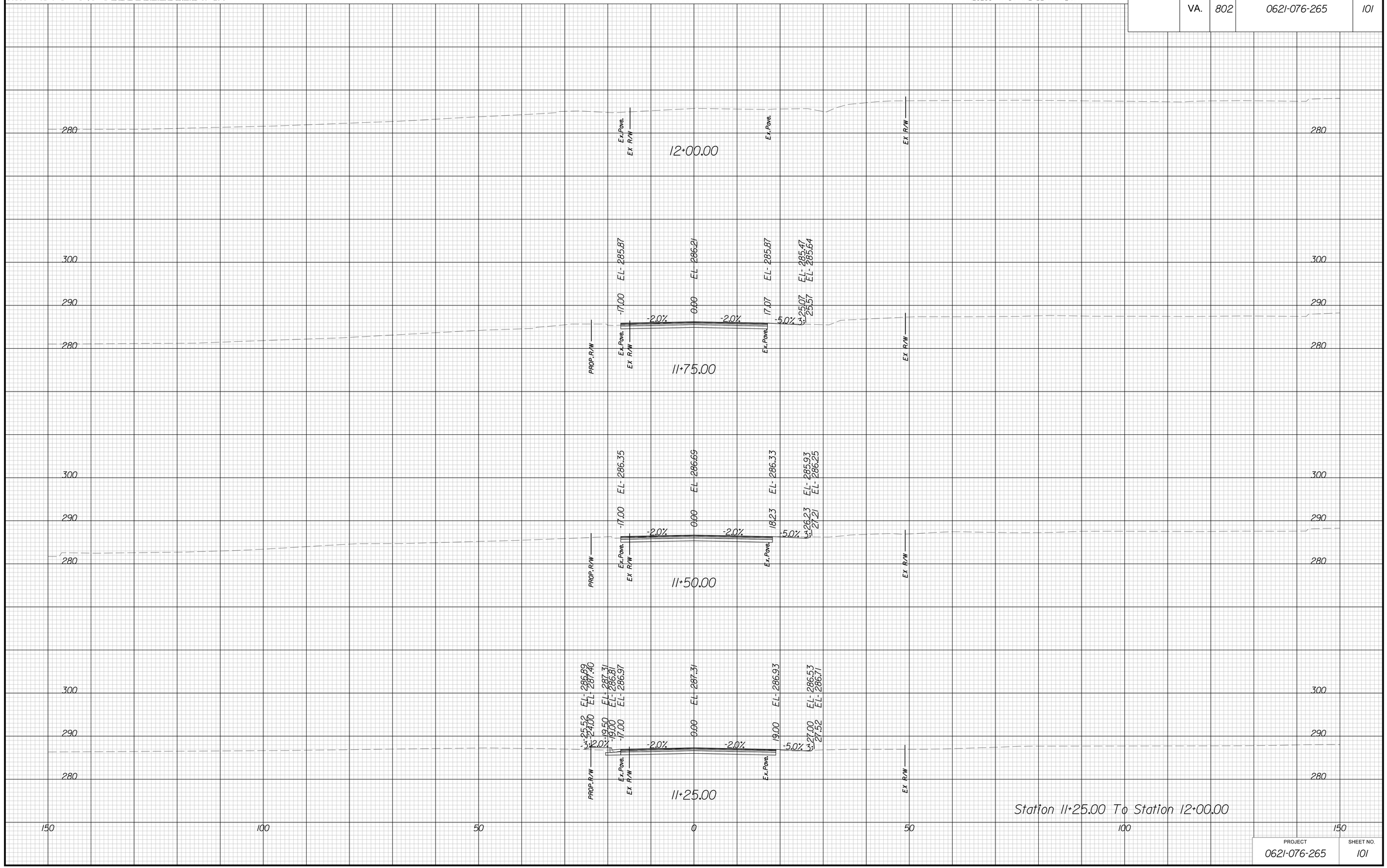
PROJECT MANAGER VDOT: Khattab Shamaout, P.E. (703) 792-7193
SURVEYED BY, DATE RDA: Ryan Drexilla, LS (703) 334-9302; September 2018
DESIGN BY RDA: Mack A. Guna, P.E. (703) 334-9288
SUBSURFACE UTILITY BY, DATE Accumark (703) 378-0100; November 2018

CROSS SECTIONS

SCALE 1 IN. = 10 FT

DESIGN 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 ROUTE	STATE PROJECT	SHEET NO.
	VA.	802	0621-076-265	101



PROJECT	SHEET NO.
0621-076-265	101

3/22/2019
2:01:06 PM

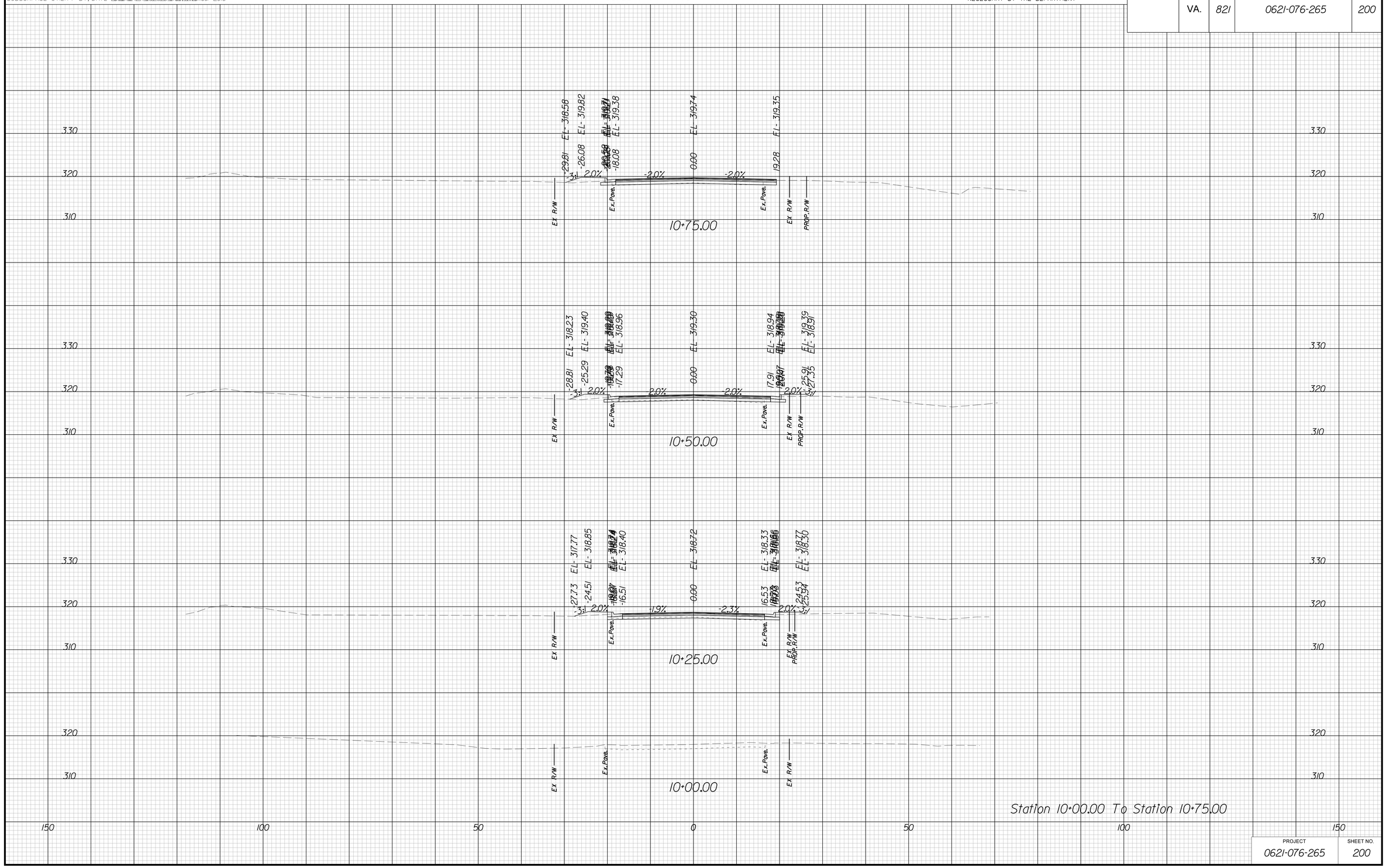
PROJECT MANAGER BWCDOT: Khattab Shamaout, P.E. (703) 792-7193
SURVEYED BY, DATE RDA: Ryan Drexilla, LS (703) 334-9302; September 2018
DESIGN BY RDA: Mark A. Gunn, P.E. (703) 334-9288
SUBSURFACE UTILITY BY, DATE Accumark (703) 378-0100; November 2018

CROSS SECTIONS

SCALE 1 IN. = 10 FT

DESIGN 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 ROUTE	STATE PROJECT	SHEET NO.
	VA.	821	0621-076-265	200



Station 10+00.00 To Station 10+75.00

PROJECT	SHEET NO.
0621-076-265	200

3/22/2019
2:01:08 PM

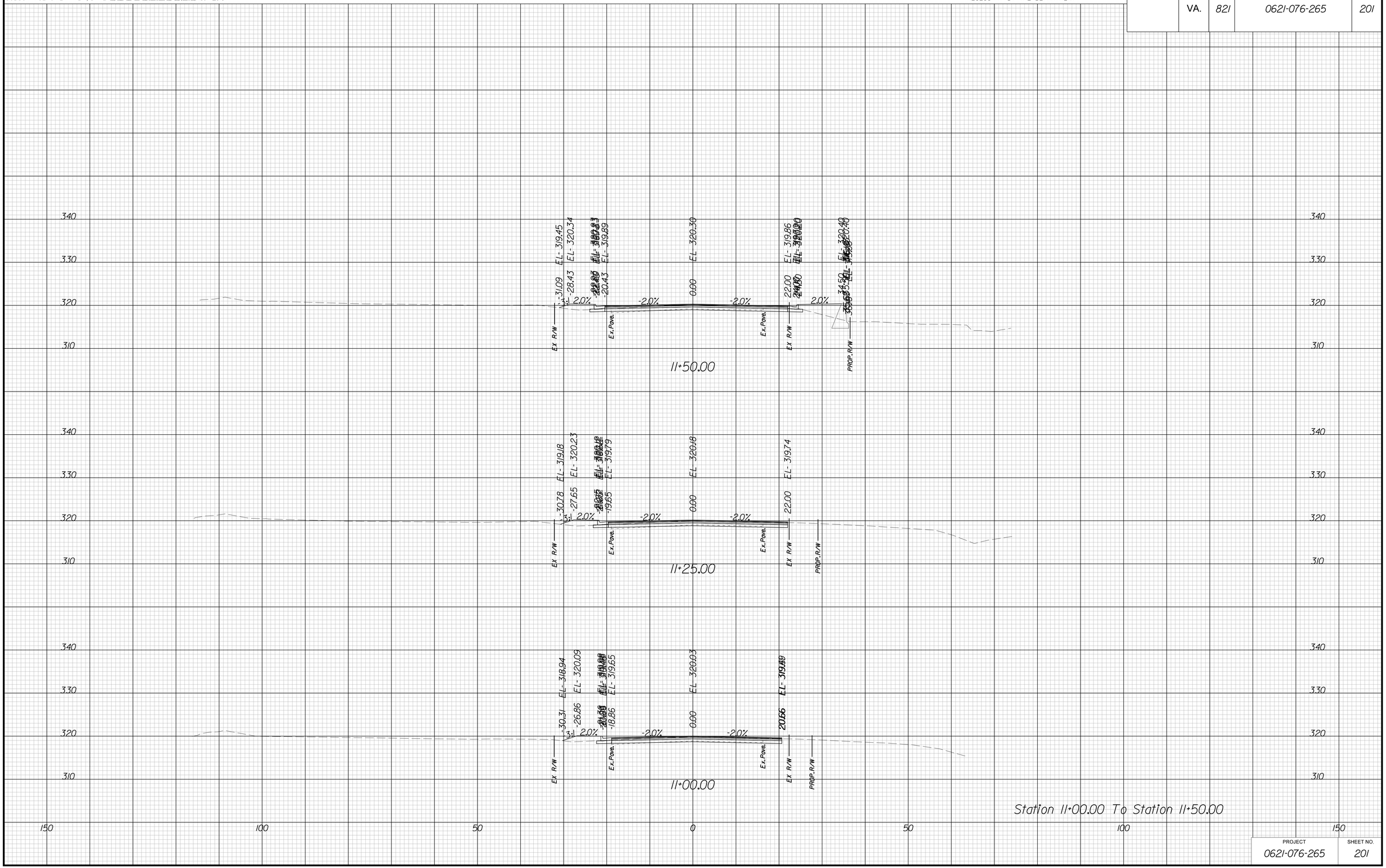
PROJECT MANAGER BWCDOT: Khattab Shamaout, P.E. (703) 792-7193
SURVEYED BY, DATE RDA: Ryan Dreella, LS (703) 334-9302; September 2018
DESIGN BY RDA: Mack A. Guna, P.E. (703) 334-9288
SUBSURFACE UTILITY BY, DATE Accumark (703) 378-0100; November 2018

CROSS SECTIONS

SCALE 1 IN. = 10 FT

DESIGN 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 ROUTE	STATE PROJECT	SHEET NO.
	VA.	821	0621-076-265	201



PROJECT	SHEET NO.
0621-076-265	201

3/22/2019
2:01:11 PM

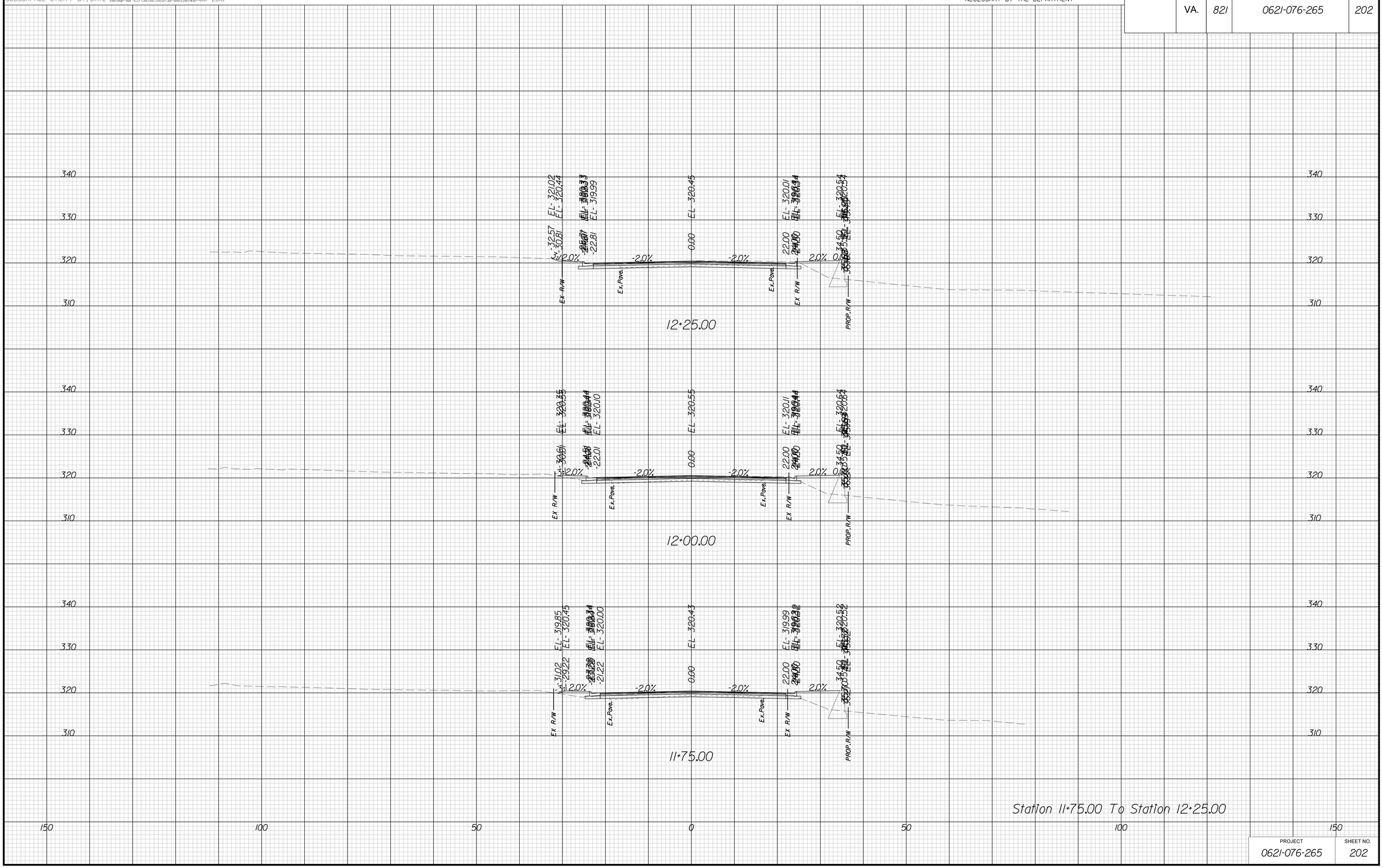
PROJECT MANAGER BWCDOT: Khattab Shamaout, P.E. (703) 792-7193
SURVEYED BY, DATE RDA: Ryan Drexilla, LS (703) 334-9302; September 2018
DESIGN BY RDA: Mack A. Guna, P.E. (703) 334-9288
SUBSURFACE UTILITY BY, DATE Accumark (703) 378-0100; November 2018

CROSS SECTIONS

SCALE 1 IN. = 10 FT

DESIGN 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 ROUTE	STATE PROJECT	SHEET NO.
	VA.	821	0621-076-265	202



PROJECT	SHEET NO.
0621-076-265	202

3/22/2019
2:01:13 PM

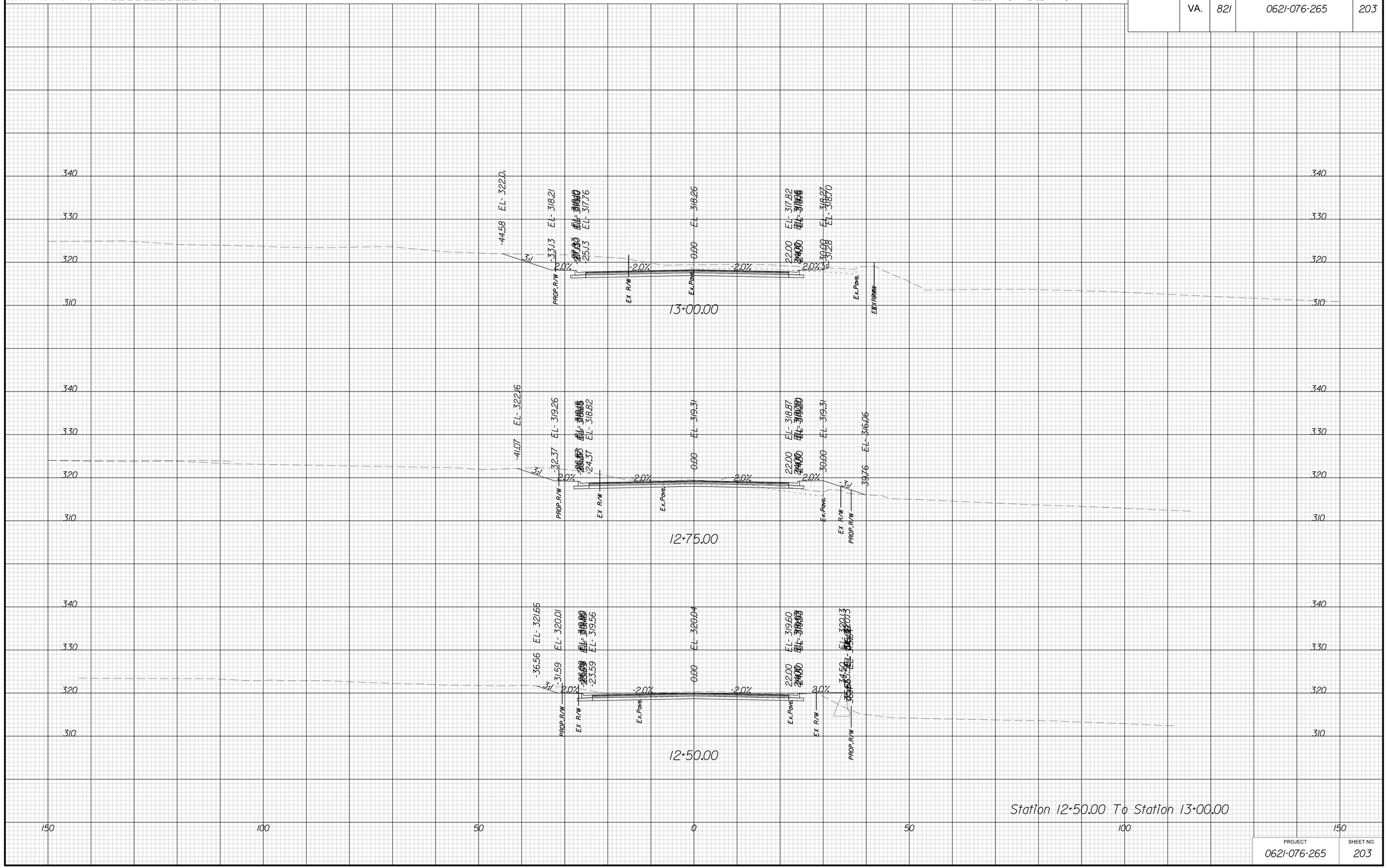
PROJECT MANAGER BWCDOT: Khattab Shamaout, P.E. (703) 792-7193
SURVEYED BY, DATE RDA: Ryan Dreella, LS (703) 334-9302; September 2018
DESIGN BY RDA: Mark A. Gunn, P.E. (703) 334-9288
SUBSURFACE UTILITY BY, DATE Accumark (703) 378-0100; November 2018

CROSS SECTIONS

SCALE 1 IN. = 10 FT

DESIGN 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 ROUTE	STATE PROJECT	SHEET NO.
	VA.	821	0621-076-265	203



Station 12+50.00 To Station 13+00.00

PROJECT	SHEET NO.
0621-076-265	203

3/22/2019
2:01:46 PM

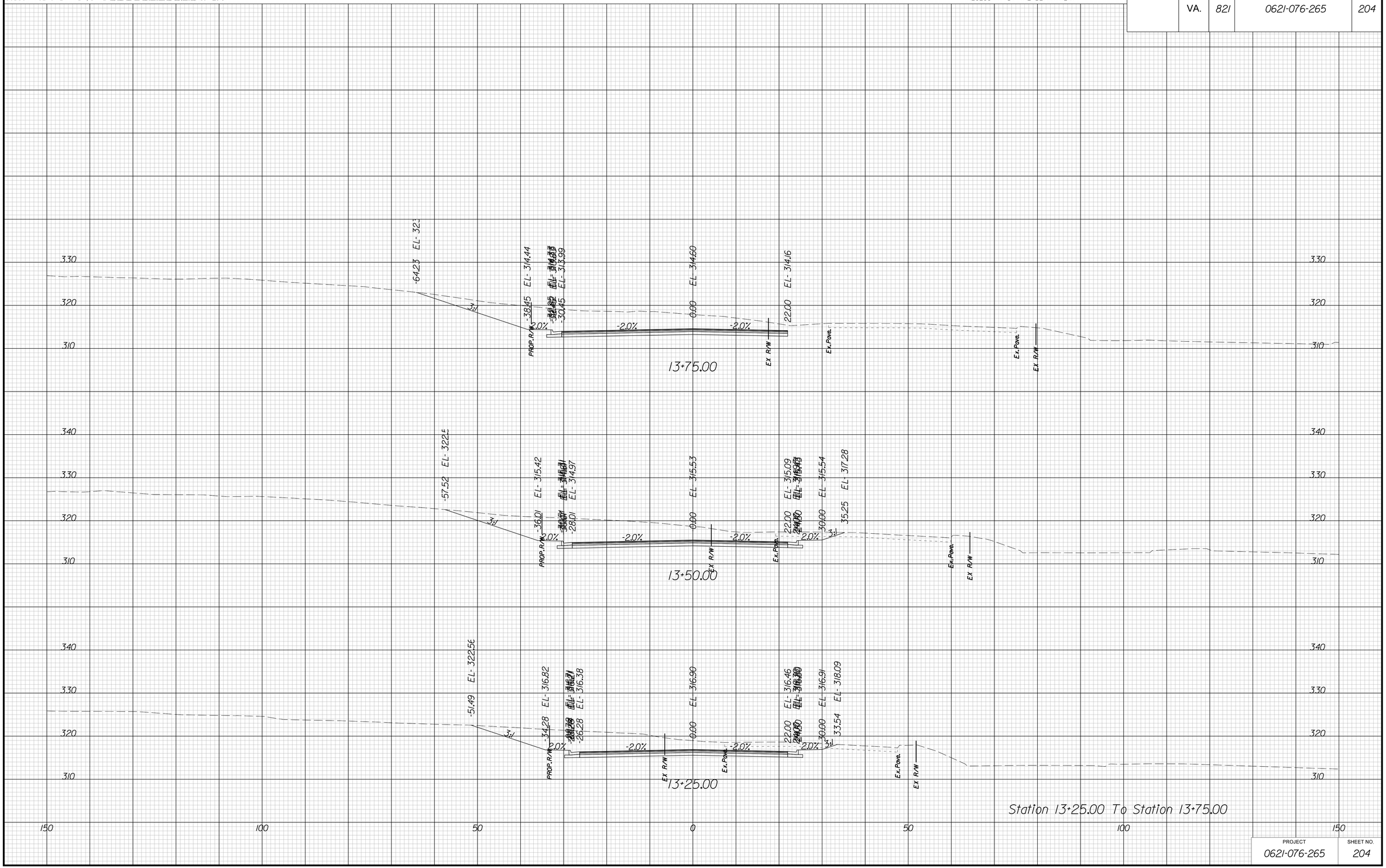
PROJECT MANAGER BWCDOT: Khattab Shamaout, P.E. (703) 792-7193
SURVEYED BY, DATE RDA: Ryan Dreella, LS (703) 334-9302; September 2018
DESIGN BY RDA: Mack A. Guna, P.E. (703) 334-9288
SUBSURFACE UTILITY BY, DATE Accumark (703) 378-0100; November 2018

CROSS SECTIONS

SCALE 1 IN. = 10 FT

DESIGN 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 ROUTE	STATE PROJECT	SHEET NO.
	VA.	821	0621-076-265	204



Station 13+25.00 To Station 13+75.00

PROJECT	SHEET NO.
0621-076-265	204

3/22/2019
2:01:18 PM

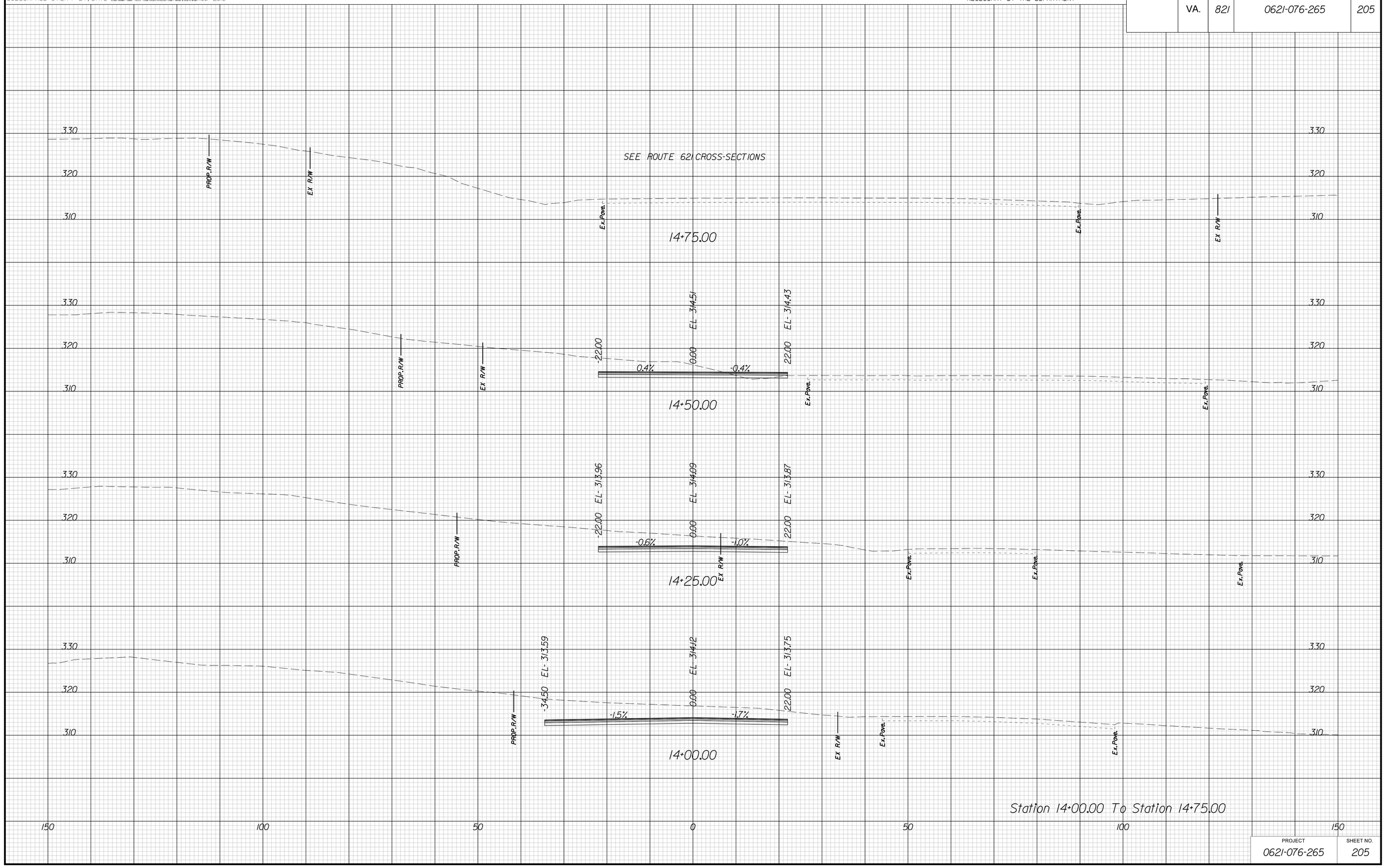
PROJECT MANAGER BWCDOT: Khattab Shamaout, P.E. (703) 792-7193
SURVEYED BY, DATE RDA: Ryan Dreella, LS (703) 334-9302; September 2018
DESIGN BY RDA: Mack A. Guna, P.E. (703) 334-9288
SUBSURFACE UTILITY BY, DATE Accumark (703) 378-0100; November 2018

CROSS SECTIONS

SCALE 1 IN. = 10 FT

DESIGN 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 ROUTE	STATE PROJECT	SHEET NO.
	VA.	821	0621-076-265	205



PROJECT	SHEET NO.
0621-076-265	205

3/22/2019
2:01:21 PM

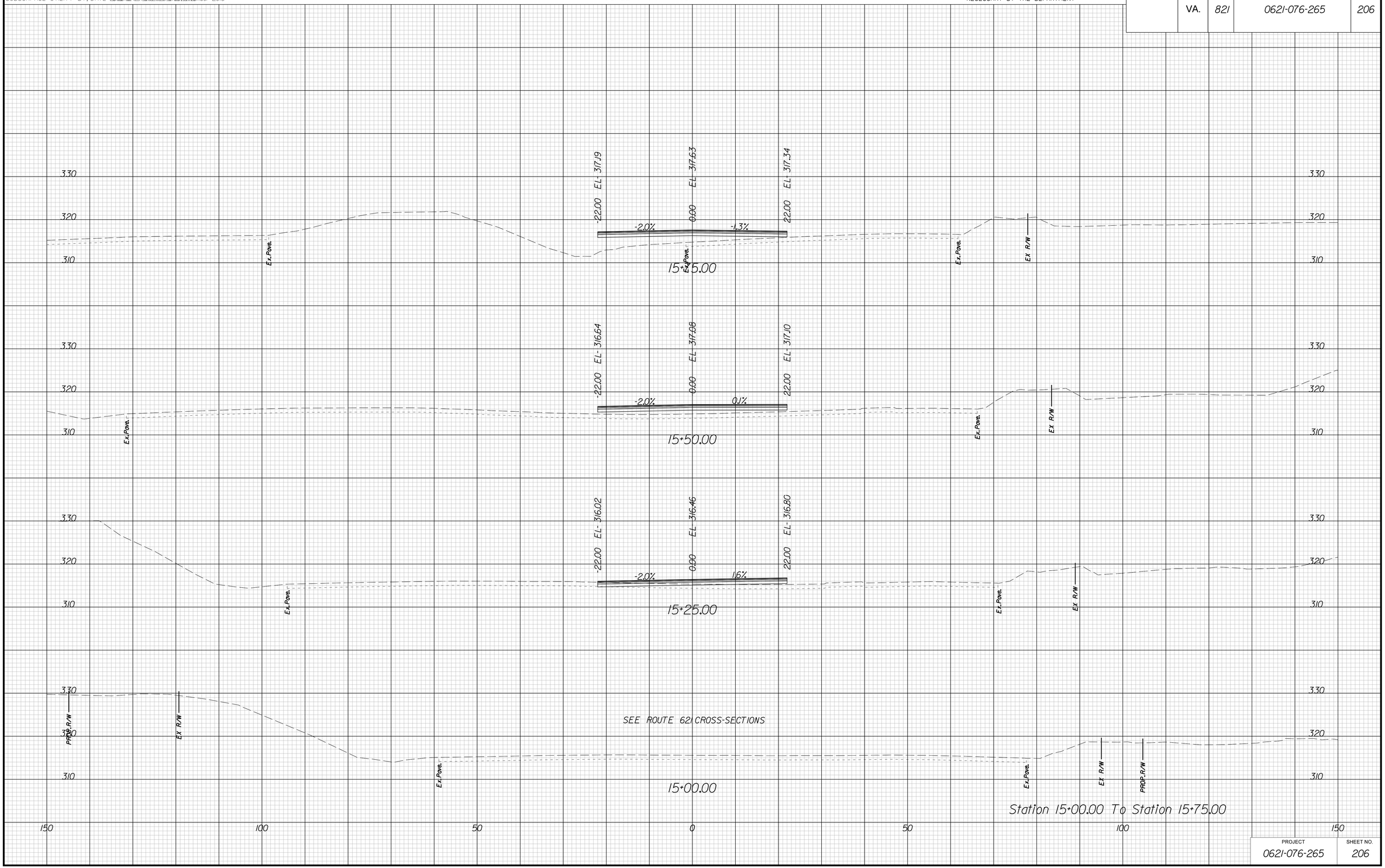
PROJECT MANAGER BWCDOT: Khattab Shamaout, P.E. (703) 792-7193
SURVEYED BY, DATE RDA: Ryan Dreella, LS (703) 334-9302; September 2018
DESIGN BY RDA: Mack A. Guna, P.E. (703) 334-9288
SUBSURFACE UTILITY BY, DATE Accumark (703) 378-0100; November 2018

CROSS SECTIONS

SCALE 1 IN. = 10 FT

DESIGN 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 ROUTE	STATE PROJECT	SHEET NO.
	VA.	821	0621-076-265	206



PROJECT	SHEET NO.
0621-076-265	206

3/22/2019
2:01:23 PM

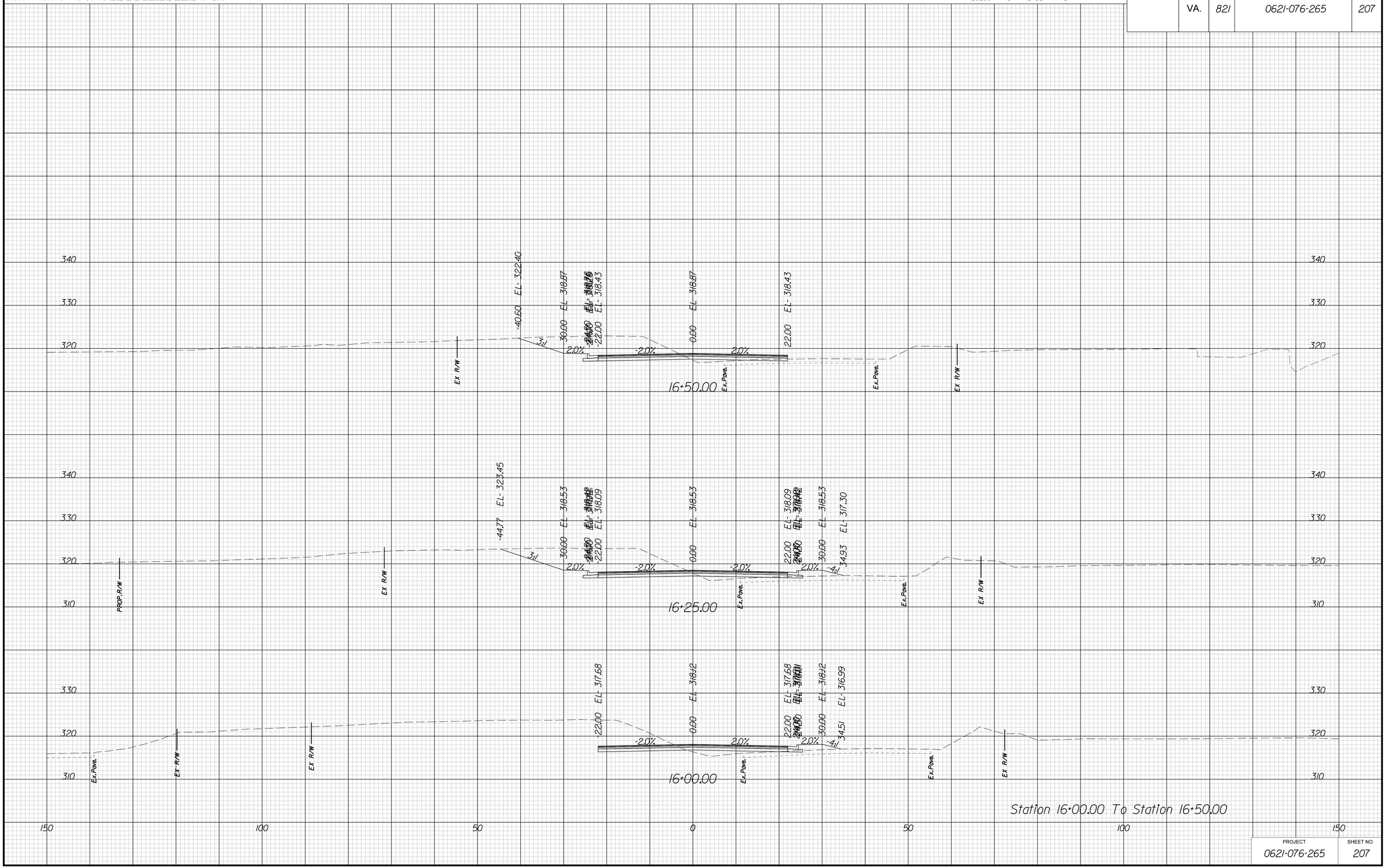
PROJECT MANAGER BWCDOT: Khattab Shamaout, P.E. (703) 792-7193
SURVEYED BY, DATE RDA: Ryan Dreella, LS (703) 334-9302; September 2018
DESIGN BY RDA: Mack A. Guna, P.E. (703) 334-9288
SUBSURFACE UTILITY BY, DATE Accumark (703) 378-0100; November 2018

CROSS SECTIONS

SCALE 1 IN. = 10 FT

DESIGN 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 ROUTE	STATE PROJECT	SHEET NO.
	VA.	821	0621-076-265	207



PROJECT	SHEET NO.
0621-076-265	207

3/22/2019
2:01:26 PM

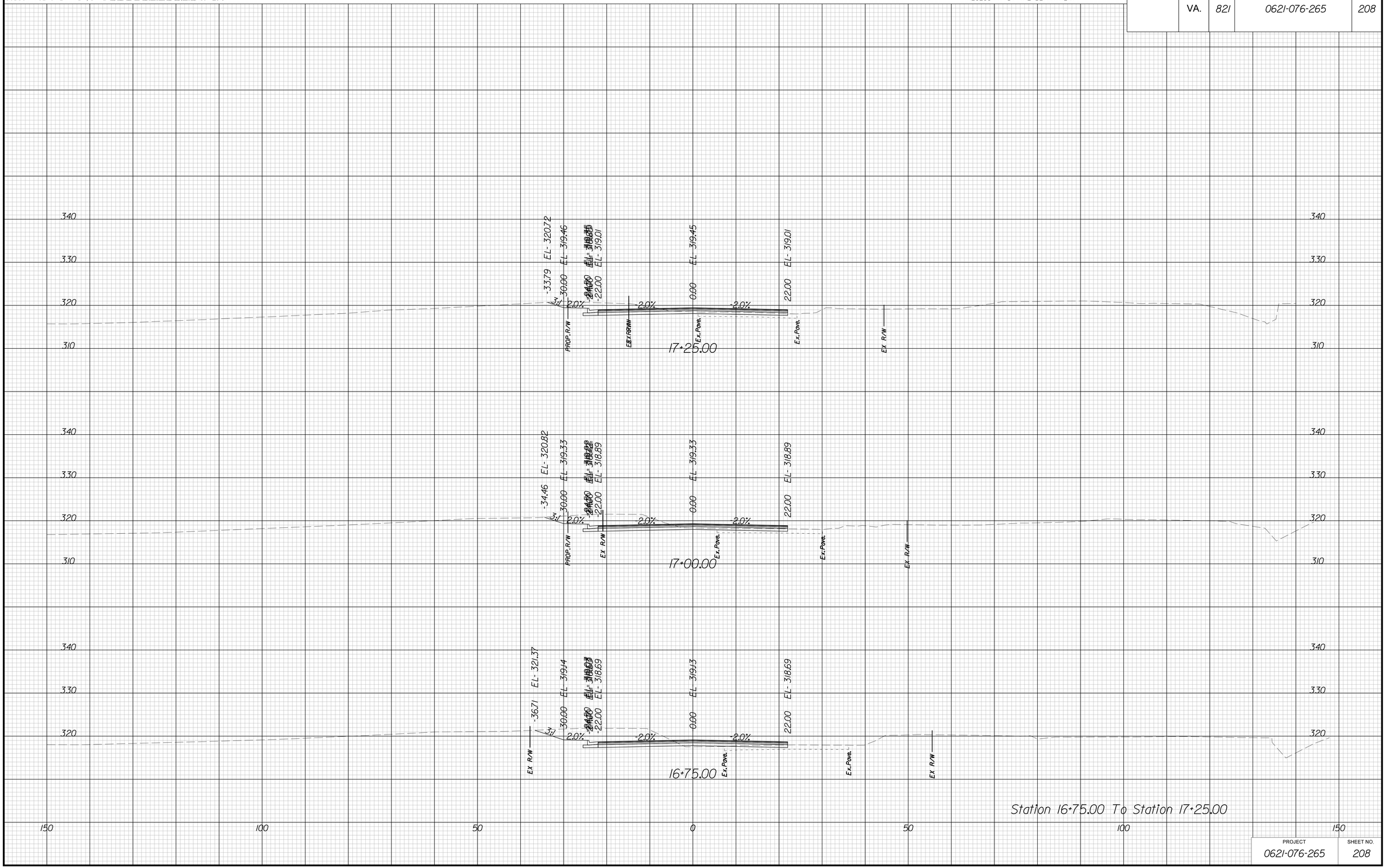
PROJECT MANAGER BWCDOT: Khattab Shamaout, P.E. (703) 792-7193
SURVEYED BY, DATE RDA: Ryan Drexilla, LS (703) 334-9302; September 2018
DESIGN BY RDA: Mack A. Guna, P.E. (703) 334-9288
SUBSURFACE UTILITY BY, DATE Accumark (703) 378-0100; November 2018

CROSS SECTIONS

SCALE 1 IN. = 10 FT

DESIGN 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 ROUTE	STATE PROJECT	SHEET NO.
	VA.	821	0621-076-265	208



Station 16+75.00 To Station 17+25.00

PROJECT	SHEET NO.
0621-076-265	208

3/22/2019
2:01:28 PM

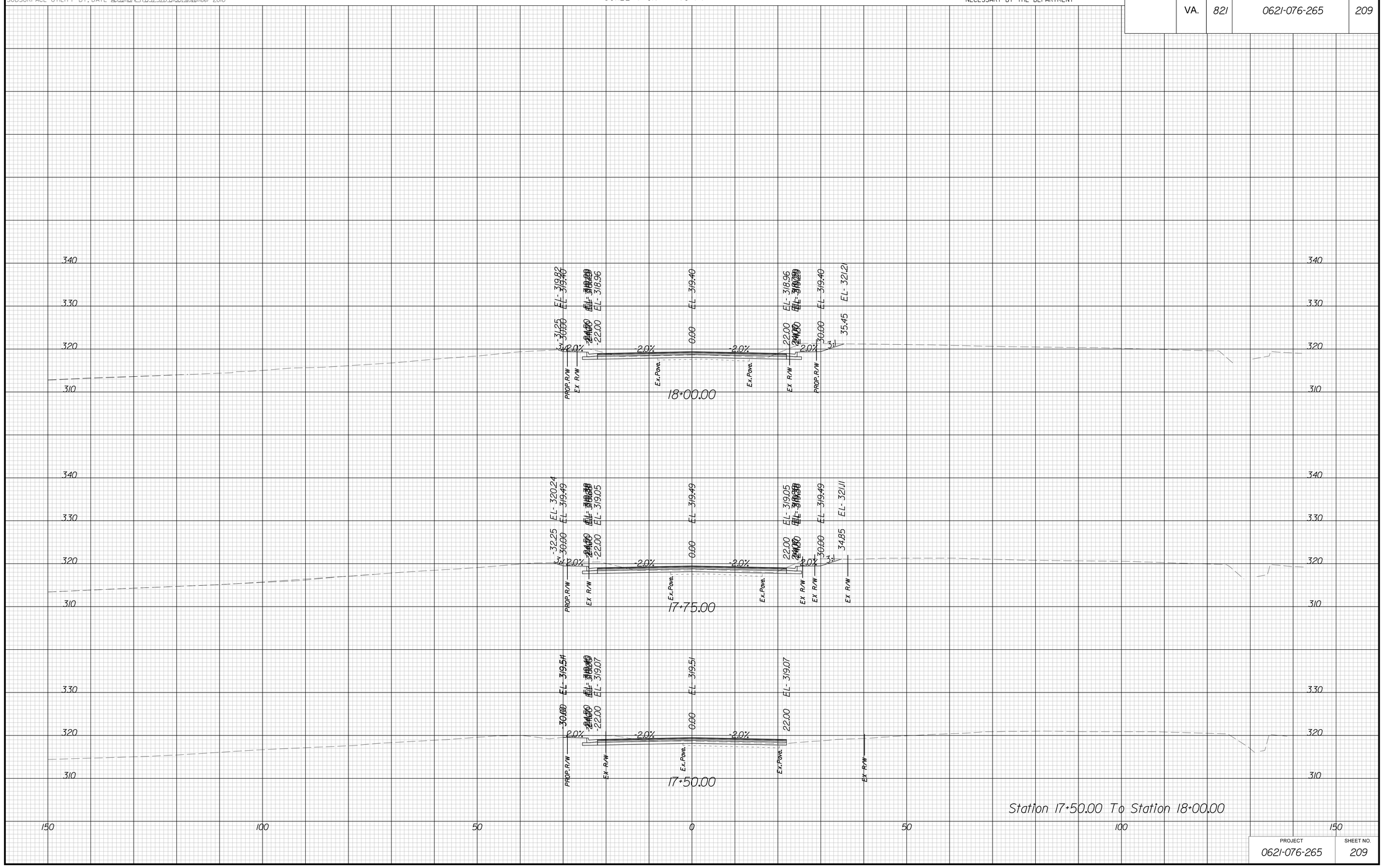
PROJECT MANAGER BWCDOT: Khattab Shamaout, P.E. (703) 792-7193
SURVEYED BY, DATE RDA: Ryan Drexilla, LS (703) 334-9302; September 2018
DESIGN BY RDA: Mack A. Guna, P.E. (703) 334-9288
SUBSURFACE UTILITY BY, DATE Accumark (703) 378-0100; November 2018

CROSS SECTIONS

SCALE 1 IN. = 10 FT

DESIGN 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 ROUTE	STATE PROJECT	SHEET NO.
	VA.	821	0621-076-265	209



PROJECT	SHEET NO.
0621-076-265	209

3/22/2019
2:01:31 PM

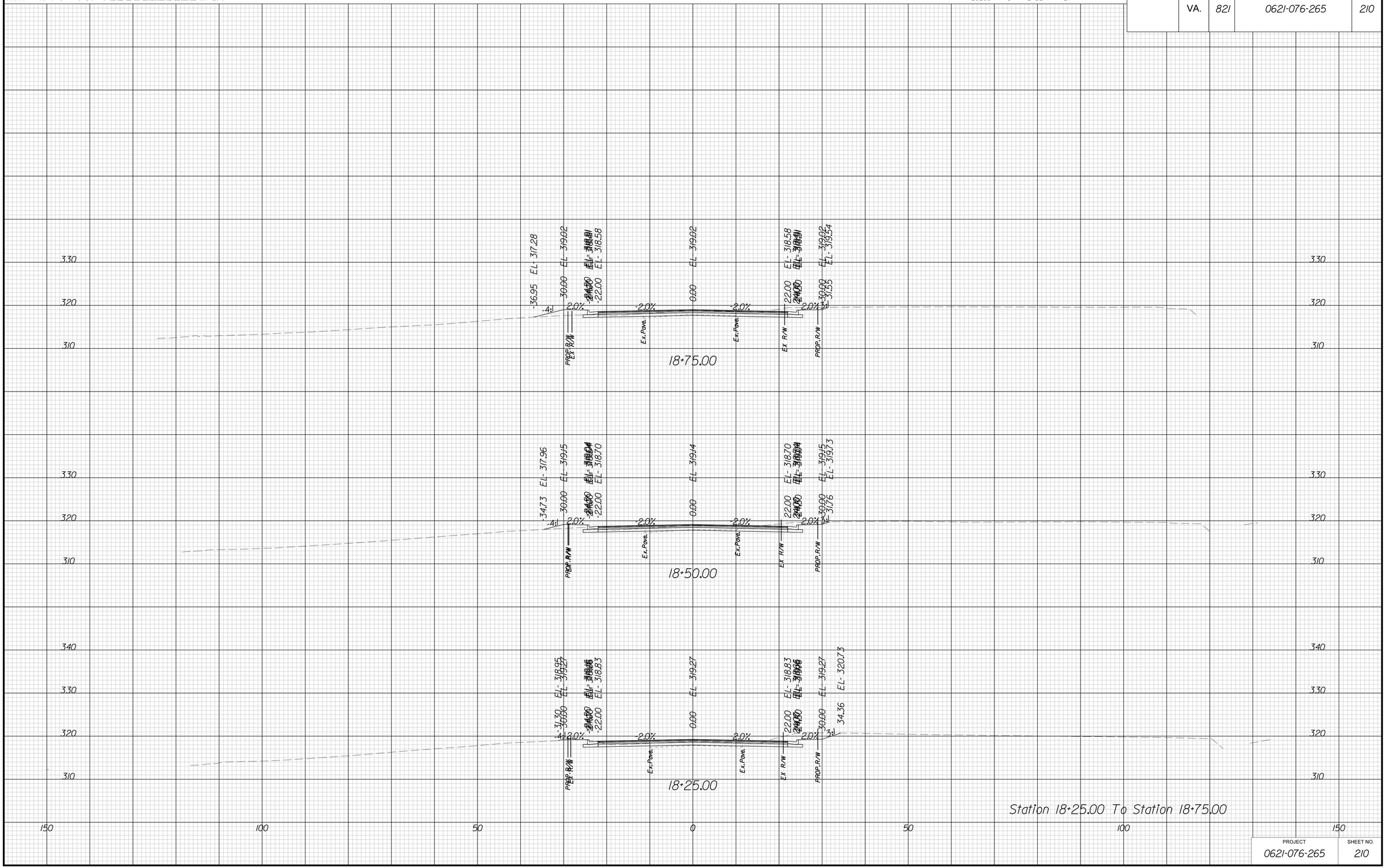
PROJECT MANAGER BWCDOT: Khattab Shamaout, P.E. (703) 792-7193
SURVEYED BY, DATE RDA: Ryan Drexilla, LS (703) 334-9302; September 2018
DESIGN BY RDA: Mark A. Gunn, P.E. (703) 334-9288
SUBSURFACE UTILITY BY, DATE Accumark (703) 378-0100; November 2018

CROSS SECTIONS

SCALE 1 IN. = 10 FT

DESIGN 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 ROUTE	STATE PROJECT	SHEET NO.
	VA.	821	0621-076-265	210



PROJECT	SHEET NO.
0621-076-265	210

3/22/2019
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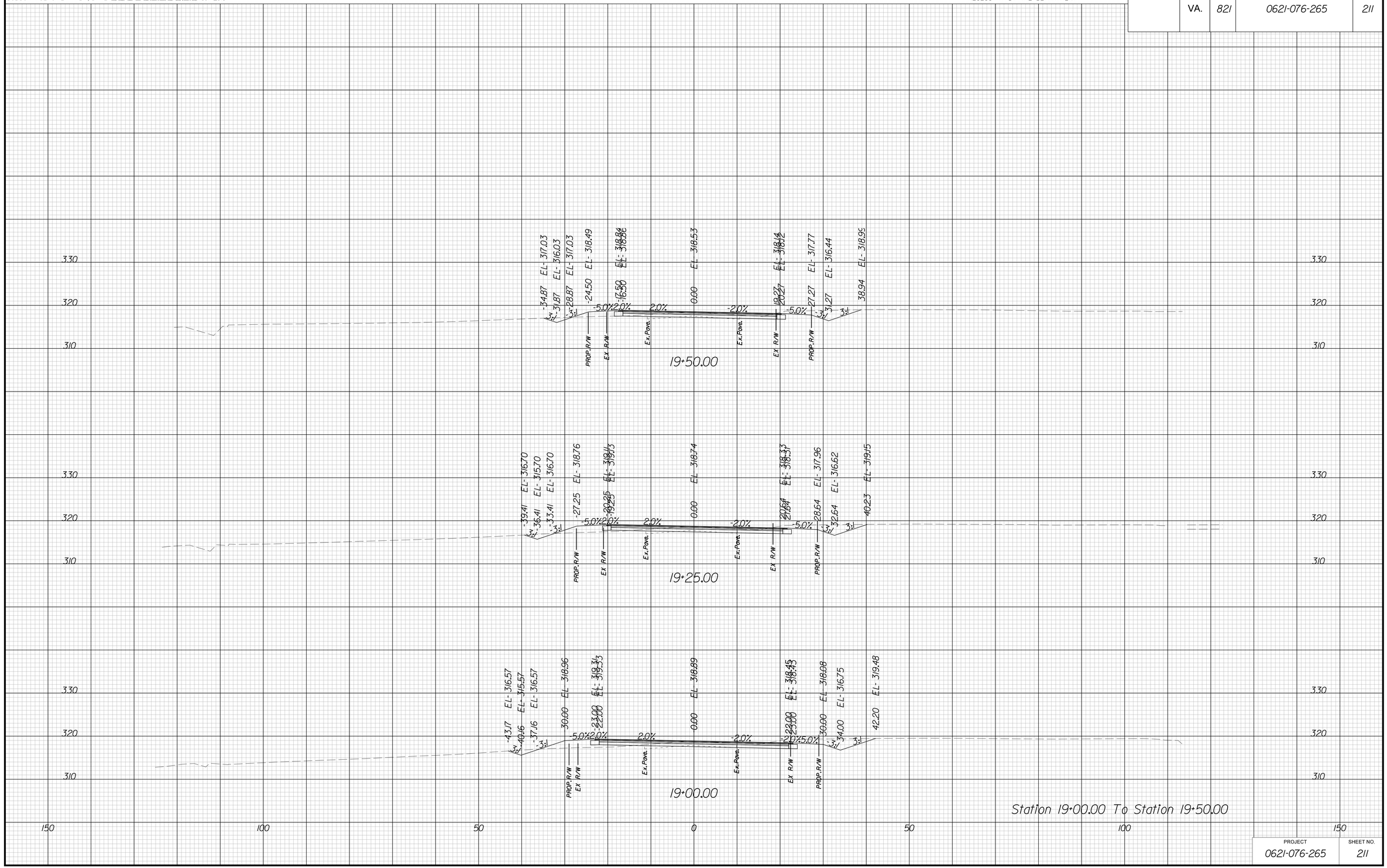
PROJECT MANAGER BWCDOT: Khattab Shamaout, P.E. (703) 792-7193
SURVEYED BY, DATE RDA: Ryan Drexilla, LS (703) 334-9302; September 2018
DESIGN BY RDA: Mack A. Guna, P.E. (703) 334-9288
SUBSURFACE UTILITY BY, DATE Accumark (703) 378-0100; November 2018

CROSS SECTIONS

SCALE 1 IN. = 10 FT

DESIGN 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 ROUTE	STATE PROJECT	SHEET NO.
	VA.	821	0621-076-265	211



PROJECT	SHEET NO.
0621-076-265	211

3/22/2019
2:01:36 PM

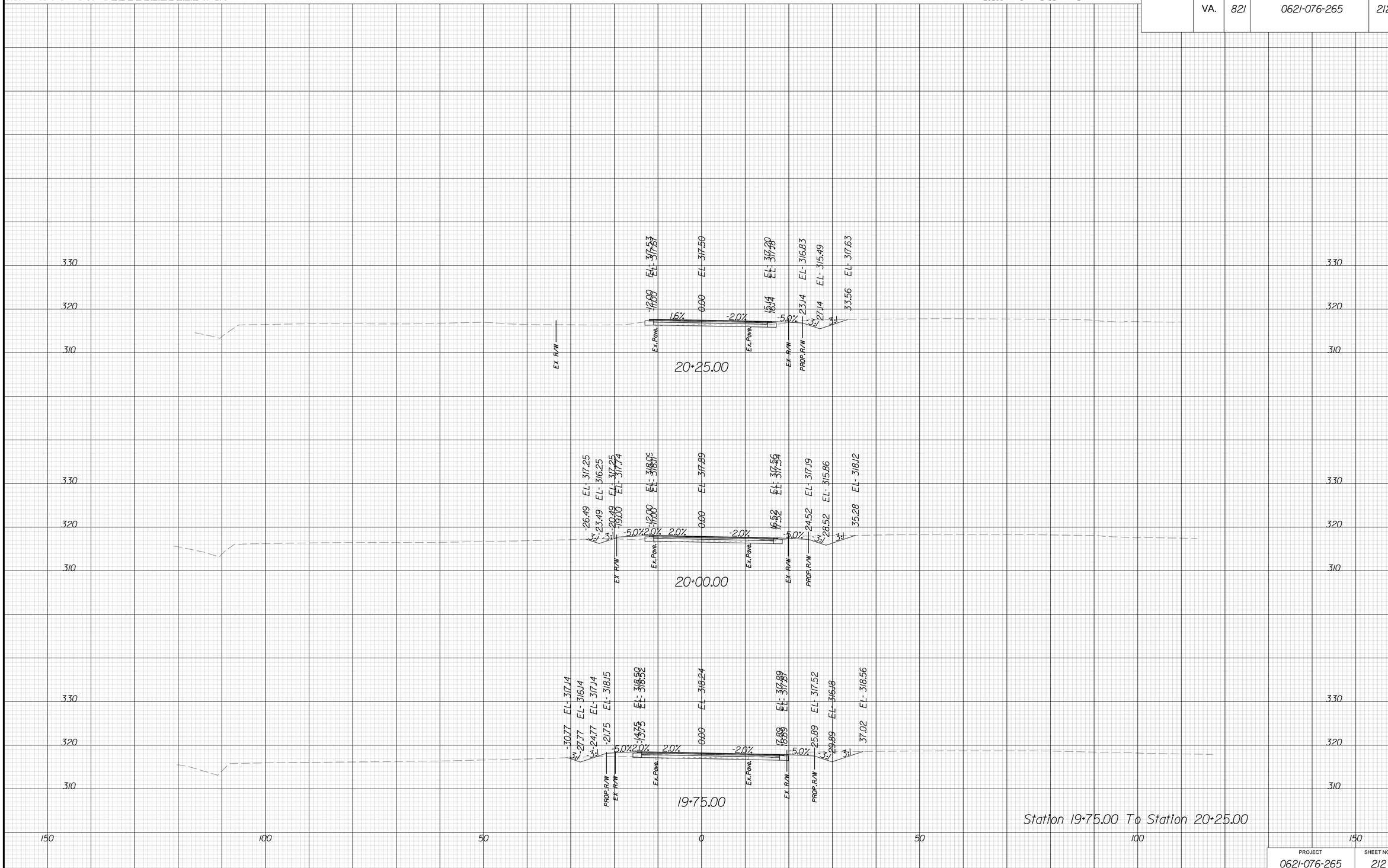
PROJECT MANAGER BWCDOT: Khattab Shamaout, P.E. (703) 792-7193
SURVEYED BY, DATE RDA: Ryan Dreella, LS (703) 334-9302; September 2018
DESIGN BY RDA: Mack A. Guna, P.E. (703) 334-9288
SUBSURFACE UTILITY BY, DATE Accumark (703) 378-0100; November 2018

CROSS SECTIONS

SCALE 1 IN. = 10 FT

DESIGN 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 ROUTE	STATE PROJECT	SHEET NO.
	VA.	821	0621-076-265	212



PROJECT	SHEET NO.
0621-076-265	212

3/22/2019
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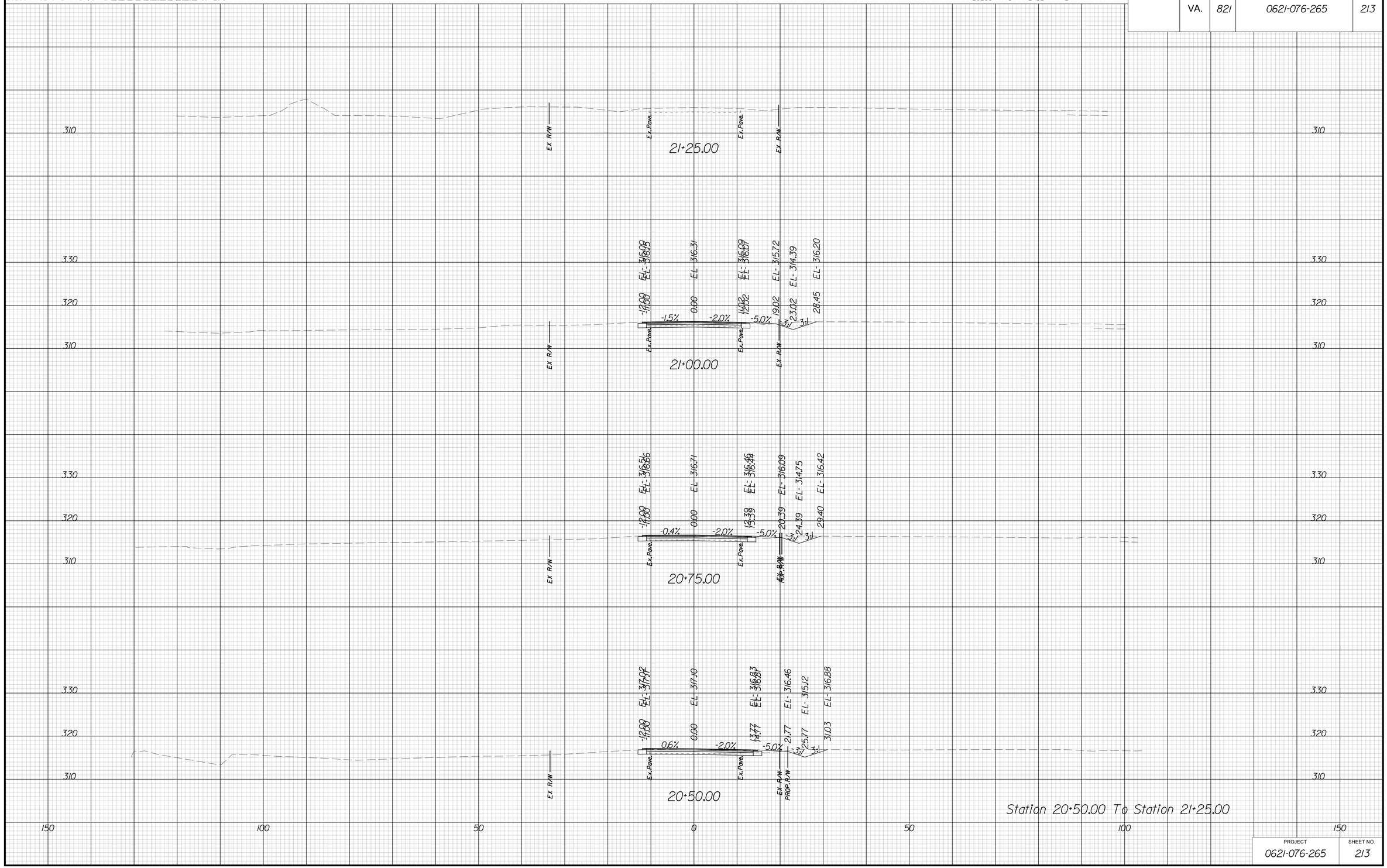
PROJECT MANAGER BWCDOT: Khattab Shamaout, P.E. (703) 792-7193
SURVEYED BY, DATE RDA: Ryan Drexilla, LS (703) 334-9302; September 2018
DESIGN BY RDA: Mack A. Guna, P.E. (703) 334-9288
SUBSURFACE UTILITY BY, DATE Accumark (703) 378-0100; November 2018

CROSS SECTIONS

SCALE 1 IN. = 10 FT

DESIGN 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 ROUTE	STATE PROJECT	SHEET NO.
	VA.	821	0621-076-265	213



PROJECT	SHEET NO.
0621-076-265	213

3/22/2019
2:01:41 PM

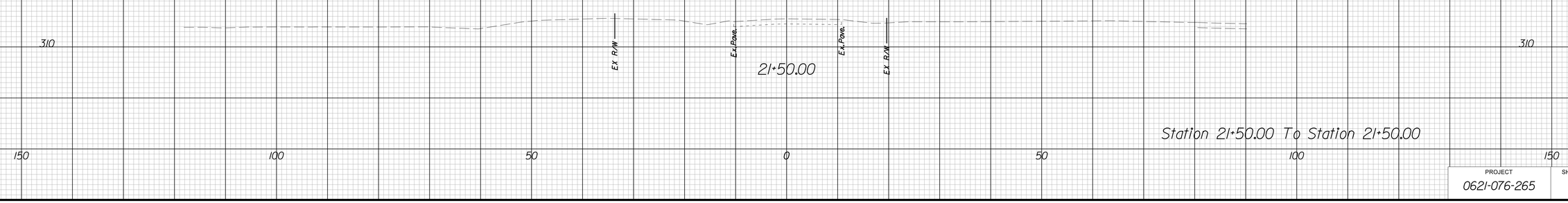
PROJECT MANAGER BWCDOT: Khattab Shamaout, P.E. (703) 792-7193
SURVEYED BY, DATE RDA: Ryan Drexilla, LS (703) 334-9302; September 2018
DESIGN BY RDA: Mack A. Guna, P.E. (703) 334-9288
SUBSURFACE UTILITY BY, DATE Accumark (703) 378-0100; November 2018

CROSS SECTIONS

SCALE 1 IN. = 10 FT

DESIGN 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 ROUTE	STATE PROJECT	SHEET NO.
	VA.	821	0621-076-265	214



Station 21+50.00 To Station 21+50.00

PROJECT	SHEET NO.
0621-076-265	214