

FOR INDEX OF SHEETS SEE SHEET 1B-1B(2)

THIS PROJECT WAS DEVELOPED UTILIZING THE DEPARTMENT'S ENGINEERING DESIGN PACKAGE (GEOPAK).
Openroads / GEOPAK Computer Identification No. 112815



FHWA 534 DATA 43101
UPC 112815

STATE	ROUTE	PROJECT		SHEET NO.
		PROJECT	PROJECT	
VA.	621	6234-076-266, C-501, RW-201		1

VDOT FUNCTIONAL CLASSIFICATION LEGEND
GS-1 (Urban Freeway System)
GS-6 (Urban Minor Arterial System)

PLAN AND PROFILE OF PROPOSED STATE HIGHWAY

PRINCE WILLIAM PARKWAY INTERCHANGE AT REALIGNED BALLS FORD ROAD

VDOT Proj.No.6234-076-266

FROM: 0.6 MI.S.OF EXISTING BALLS FORD ROAD (RTE.621)
TO: EXISTING BALLS FORD ROAD (RTE.621)

SUPPLEMENTAL PUBLIC HEARING PLAN
AUGUST 2021

Notice of Design Change (NDC) #02
AUGUST 2021

RFC SUBMISSION FINAL PLAN
MAY 2021

PROJECT LAND DISTURBANCE
Project Area: 129.57 Acres
Disturbed Area: 112.12 Acres
Impervious Area: 28.15 Acres

BOND AMOUNT \$57,980,000

DESCRIPTION REFERENCE
Begin Proj. 0.152 mi. W. of the intersection of Devlin Rd. and Balls Ford Rd. (Rte. 621) along Rte. 621's Constr. BL at Sta. 103+40.00.

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.

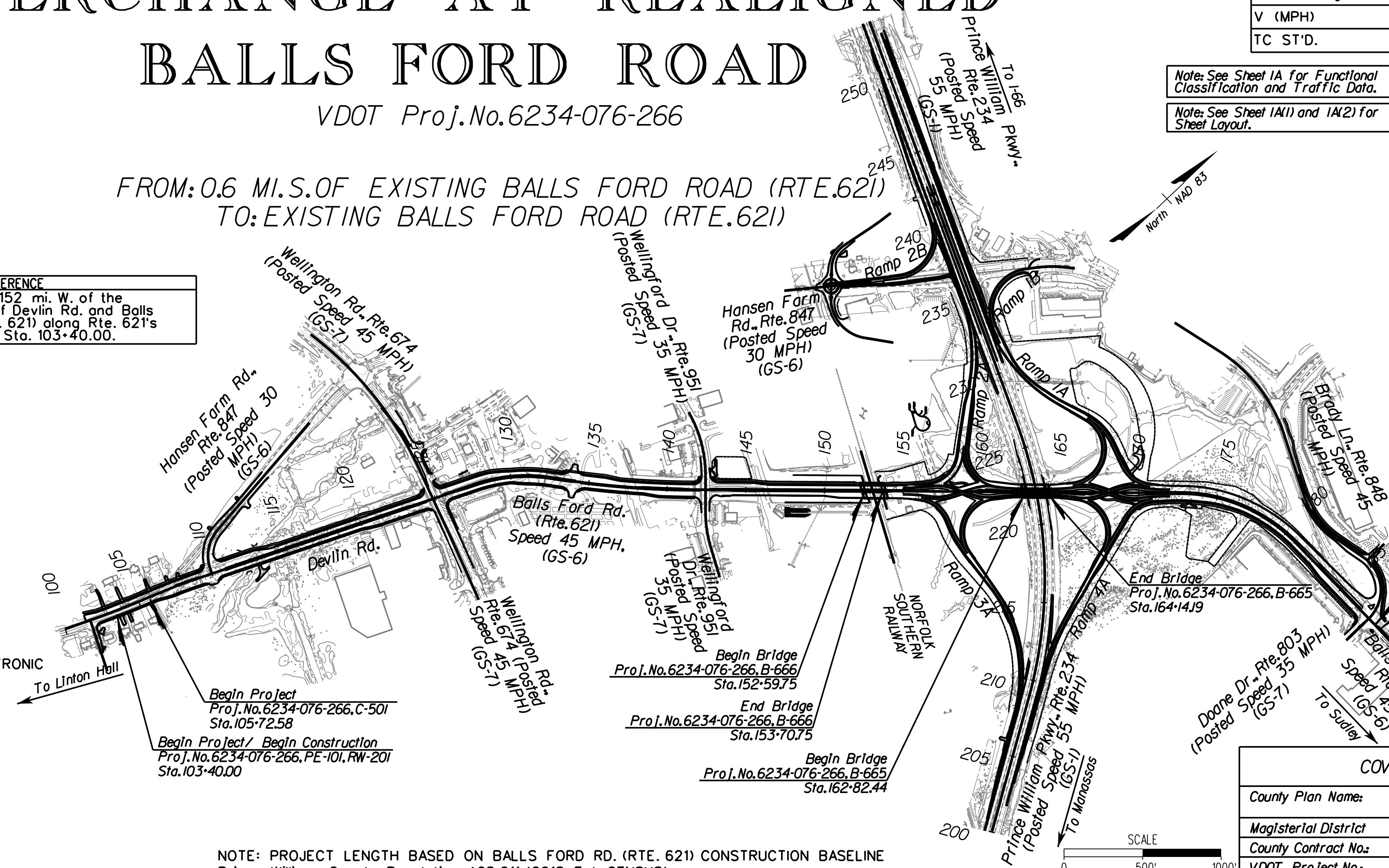
DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT.

THIS PROJECT IS TO BE CONSTRUCTED IN ACCORDANCE WITH THE DEPARTMENT'S:
2016 ROAD AND BRIDGE SPECIFICATIONS,
2016 ROAD AND BRIDGE STANDARDS,
2009 MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD),
2011 VIRGINIA SUPPLEMENT TO THE MUTCD,
2011 VIRGINIA WORK AREA PROTECTION MANUAL including Revision 2 (September 1, 2019).

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.



Note: See Sheet 1A for Functional Classification and Traffic Data.
Note: See Sheet 1A(1) and 1A(2) for Sheet Layout.

LOCALLY ADMINISTERED PROJECTS

PRINCE WILLIAM COUNTY DEPARTMENT OF TRANSPORTATION

RECOMMENDED FOR APPROVAL FOR RIGHT OF WAY ACQUISITION

DATE	ASSISTANT DIRECTOR OF TRANSPORTATION CAPITAL DESIGN AND CONSTRUCTION
------	--

LOCALLY ADMINISTERED PROJECTS

PRINCE WILLIAM COUNTY DEPARTMENT OF TRANSPORTATION

RECOMMENDED FOR APPROVAL FOR CONSTRUCTION

DATE	ASSISTANT DIRECTOR OF TRANSPORTATION CAPITAL DESIGN AND CONSTRUCTION
------	--

End Project
Proj.No.6234-076-266,C-501
Sta.188+16.49

End Project
Proj.No.6234-076-266,RW-201
Sta.188+57.12

End Project/ End Construction
Proj.No.6234-076-266,PE-101
Sta.191+72.48

DESCRIPTION REFERENCE
End Proj. 0.079 mi. E. of the intersection of Doane Dr. (Rte. 803) and Balls Ford Rd. (Rte. 621) along Rte. 621's Constr. BL at Sta. 191+72.48.

COVER SHEET INFORMATION

County Plan Name:	PRINCE WILLIAM PARKWAY INTERCHANGE AT REALIGNED BALLS FORD ROAD
Magisterial District	Brentsville
County Contract No.:	
VDOT Project No.:	6234-076-266
County Project Manager	Mary Ankers
Prince William Department of Transportation	
Address and Phone 5 County Complex Court, Suite 290	
Prince William, VA 22192, Phone: (703) 792-5276	
Construction Contractor	The Lane Construction Corporation
Design Build Project Manager, Richard McDonough, P.E.	
Consultant Engineer Rinker Design Associates, P.C.	
Design Build Design Manager, Mark Gunn, P.E.	
Address and Phone 1100 Endeavor Court, Suite 200	
Manassas, VA 20109, Phone: (703) 334-9300	

NOTE: PROJECT LENGTH BASED ON BALLS FORD RD. (RTE. 621) CONSTRUCTION BASELINE
Prince William County Population 468,011 (2018 Est. CENSUS)

STATE PROJECT NO.	SECTION	FEDERAL AID PROJECT NO.	TYPE CODE	PPMS NO.	LENGTH INCLUDING BRIDGE(S)		LENGTH EXCLUDING BRIDGE(S)		TYPE PROJECT	DESCRIPTION
					FEET	MILES	FEET	MILES		
6234-076-266	C-501	-	F000	-	8243.91	1.561	8001.16	1.515	Construction	From 0.107 mi. W. of Devlin Rd. to 0.012 mi. E. of Doane Dr. (Rte. 803)
	PE-101	-	PENG	-	8832.48	1.673	8589.73	1.627	Prelim. Engineering	From 0.152 mi. W. of Devlin Rd. to 0.079 mi. E. of Doane Dr. (Rte. 803)
	RW-201	-	ROWA	-	8517.12	1.613	8274.37	1.567	R/W	From 0.152 mi. W. of Devlin Rd. to 0.019 mi. E. of Doane Dr. (Rte. 803)
	B-666	-	X131-S	-	111.00	0.021	-	-	Bridge	Bridge passing over Railroad Tracks
	B-665	-	X231-S	-	131.75	0.025	-	-	Bridge	Bridge passing over Prince William Pkwy.

CONVENTIONAL SIGNS

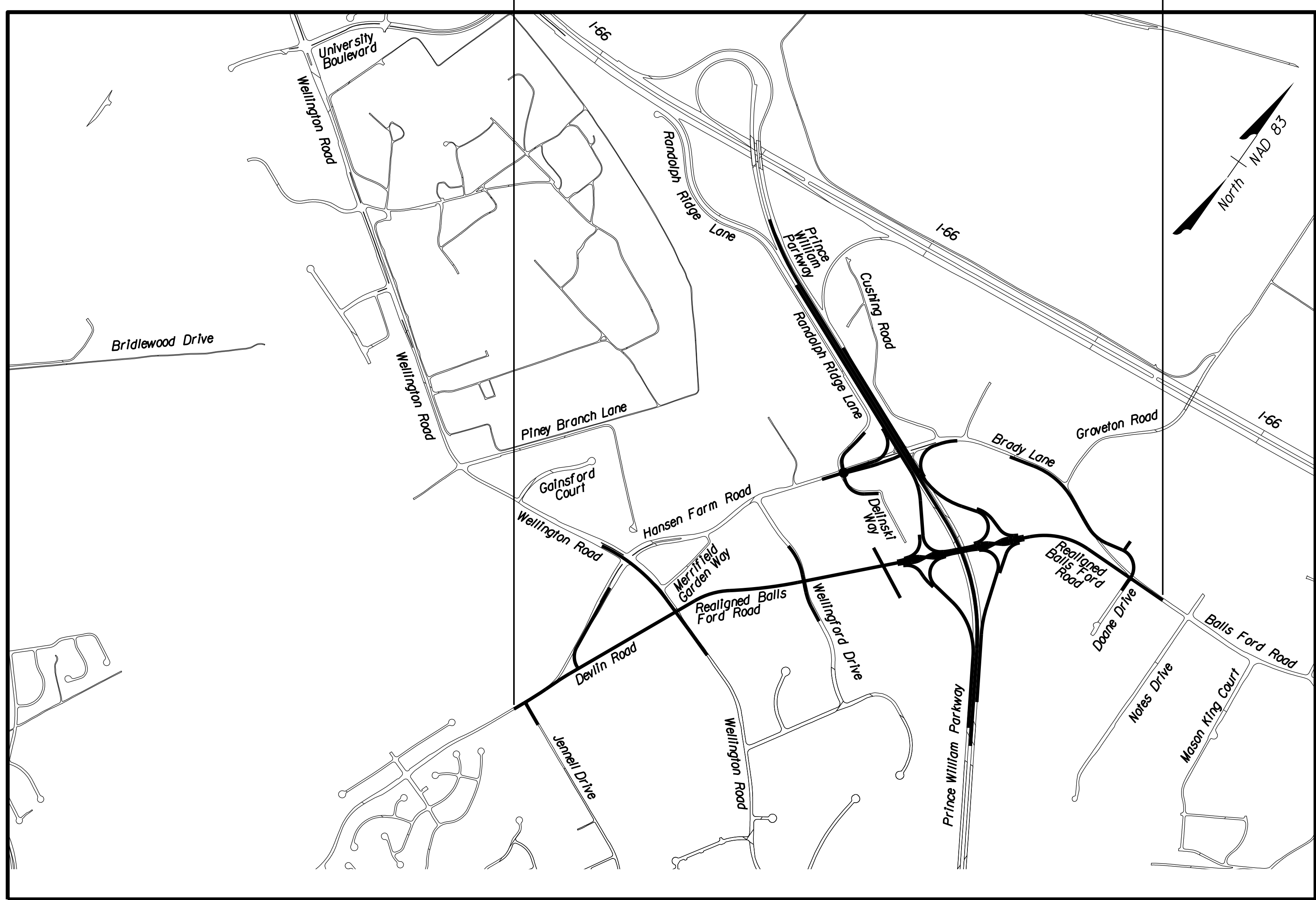
STATE LINE	LEVEE OR EMBANKMENT	
COUNTY LINE	BRIDGES	
CITY/TOWN OR VILLAGE	CULVERTS	
RIGHT OF WAY LINE	DROP INLET	
FENCE LINE	POWER POLES	
UNFENCED PROPERTY LINE	TELEPHONE OR TELEGRAPH POLES	
FENCED PROPERTY LINE	TELEPHONE OR TELEGRAPH LINES	
WATER LINE	HEDGE	
SANITARY SEWER LINE	TREES	
GAS LINE	HEAVY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

PROJECT MANAGER PMC DOT: Mary Ankers (703) 792-4228
 SURVEYED BY, DATE Rinker Design Associates, P.C. (703) 368-7373, April 2020
 DESIGN BY Rinker Design Associates: Mark Gunn, PE (703) 368-7373
 SUBSURFACE UTILITY BY, DATE Accurmark (703) 635-3060, May 2020
 Office Locations: Manassas, VA; Fairfax, VA; Falls Church, VA; Herndon, VA; Reston, VA; Springfield, VA; Stafford, VA; Warrenton, OR; Washington, DC
 Design Associates, P.C.
 Civil Engineering - Surveying - Land Planning - Transportation - Right of Way Services
 NOVA DISTRICT DESIGN UNIT
 LANE

PROJECT MANAGER PWC DOT: Mary Ankers (703) 792-4228
SURVEYED BY, DATE Rinker Design Associates, P.C. (703) 369-7373, April 2020
DESIGN BY Rinker Design Associates, Mark Gunn, P.E. (703) 368-7373
SUBSURFACE UTILITY BY, DATE Accurmark (703) 635-3060, May 2020

Project Location Map

Proposed Project: 6234-076-266
(See Title Sheet for Section Info)



PRINCE WILLIAM PARKWAY INTERCHANGE - PROJECT LOCATION MAP

Prince William County, Virginia Population 468,011 (Est. 2018 Census)
1" = 1000' Scale

Note: See Plan and Profile Sheets for horizontal and vertical curve design speed data

FUNCTIONAL CLASSIFICATION AND TRAFFIC DATA	
NON-NHS URBAN MINOR ARTERIAL STREET SYSTEM - ROLLING - GS-6 (DEVLIN RD.) PRINCE WILLIAM COUNTY STANDARD MA-1	
	Fr: Balls Ford Rd. To: Wellington Rd.
ADT (2017)	15,000
ADT (2040)	8,400
DHV	N/A
D (%) (design hour)	N/A
T (%) (design hour)	1
V (MPH)	⊕ 30 MPH (Posted 30 MPH)
TC ST'D.	TC-5.11U

FUNCTIONAL CLASSIFICATION AND TRAFFIC DATA	
NON-NHS URBAN MINOR ARTERIAL STREET SYSTEM - ROLLING - GS-6 (CUSHING RD.) PRINCE WILLIAM COUNTY STANDARD MA-1	
	Fr: Cushing Rd. To: Balls Ford Rd.
ADT (2017)	19,000 (W. of Rte. 234) 17,000 (E. of Rte. 234)
ADT (2040)	10,000
DHV	1300
D (%) (design hour)	62
T (%) (design hour)	9
V (MPH)	⊕ 30 MPH (Posted 30 MPH)
TC ST'D.	TC-5.11U - TC-5.11ULS

FUNCTIONAL CLASSIFICATION AND TRAFFIC DATA	
NON-NHS URBAN FREEWAY SYSTEM - ROLLING - GS-1 (234, PRINCE WILLIAM PKWY.) PRINCE WILLIAM COUNTY STANDARD PA-1	
	Fr: Wellington Rd. To: I-66
ADT (2017)	49,000 (N. of Balls Ford Rd.) 40,000 (S. of Balls Ford Rd.)
ADT (2040)	63,000 (N. of Balls Ford Rd.) 51,000 (S. of Balls Ford Rd.)
DHV	3,800
D (%) (design hour)	53 / 47
T (%) (design hour)	8
V (MPH)	⊕ 60 MPH (Posted 55 MPH)
TC ST'D.	TC-5.11R

FUNCTIONAL CLASSIFICATION AND TRAFFIC DATA	
NON-NHS URBAN COLLECTOR STREET SYSTEM - ROLLING - GS-7 (RTE. 951, WELLINGTON DR.) PRINCE WILLIAM COUNTY STANDARD CI-1	
	Fr: Livingston Rd. To: Balls Ford Rd.
ADT (2017)	3,100
ADT (2040)	2,000
DHV	N/A
D (%) (design hour)	N/A
T (%) (design hour)	N/A
V (MPH)	⊕ 35 MPH (Posted 35 MPH)
TC ST'D.	TC-5.11U

FUNCTIONAL CLASSIFICATION AND TRAFFIC DATA	
NON-NHS URBAN COLLECTOR STREET SYSTEM - ROLLING - GS-7 (RTE. 674, WELLINGTON RD.) PRINCE WILLIAM COUNTY STANDARD MA-1	
	Fr: Balls Ford Rd. To: Prince William Pkwy.
ADT (2017)	17,000
ADT (2040)	19,000
DHV	1,600
D (%) (design hour)	53 / 47
T (%) (design hour)	8%
V (MPH)	⊕ 45 MPH (Posted 45 MPH)
TC ST'D.	TC-5.11U

REVISED	STATE	ROUTE	STATE	PROJECT	SHEET NO.
NDC02 NDC04	VA.	621		6234-076-266, C-501, RW-201	1A

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

- 02 Revised sheet to include roundabout design.
- 04 Revised project limits for Jennell Drive extension & Hansen Farm Road realignment.

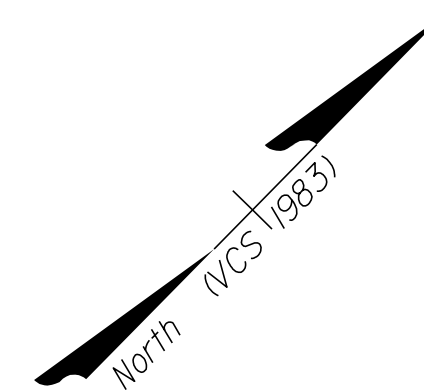
7/1/2021 NOVA DISTRICT DESIGN UNIT

 Office Locations: Fairfax, VA; Falls Church, VA; Herndon, VA; Reston, VA; Springfield, VA; Vienna, VA; Woodbridge, VA; Yorktown, VA

PROJECT MANAGER PWC_DOT: Mary Ankers (703) 792-4228
SURVEYED BY, DATE Rinker Design Associates, P.C. (703) 369-7373, April 2020
DESIGN BY Rinker Design Associates, Mark Gunn, P.E. (703) 368-7373
SUBSURFACE UTILITY BY, DATE Accurmark (703) 635-3060, May 2020

50 Scale Base Layout Plan

04 Revised to include sheet 2 and show extended project limits/realignment.



REVISED	STATE	ROUTE	STATE	PROJECT	SHEET NO.
NDC04	VA.	621		6234-076-266, C-501, RW-201	1A(2)

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

- Notes:
1. Sheet 15 is only included in the signage & pavement marking series.
 2. Sheets 4(2), 4(3), & 16 are only included in the signage series.

SCALE: 0 550' 1100'

VDOT PROJECT: 6234-076-266
PNC PROJECT: SPR2020-00383 S03

SHEET NO. 1A(2)

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



NOVA DISTRICT DESIGN UNIT

PROJECT MANAGER PWC DOT: Mary Ankers (703) 792-4228
 SURVEYED BY, DATE Rinker Design Associates, P.C. (703) 369-7373, April 2020
 DESIGN BY Rinker Design Associates, Mark Gunn, P.E. (703) 368-7373
 SUBSURFACE UTILITY BY, DATE Acumark (703) 635-3060, May 2020

INDEX OF SHEETS

PROJECT INDEX OF SHEETS		
Sheet No.	I	Title Sheet
Sheet No.	IA	Project Location Map
Sheet No.	IA(1)	25 Scale Base Layout Plan
Sheet No.	IA(2)	50 Scale Base Layout Plan
Sheet No.	IB	Index of Sheets
Sheet No.	IB(1)	Index of Sheets
Sheet No.	IB(2)	Index of Sheets
Sheet No.	IC	Right of Way Data Sheet
Sheet No.	IC(1) ***	Existing Easement Descriptions
Sheet No.	IC(2) ***	Existing Easement Descriptions
Sheet No.	ID	Revision Data Sheet
Sheet No.	ID(1) ***	Construction Plan Revision Data Sheet
Sheet No.	IE ***	Demolition Summary
Sheet No.	IE(1) ***	Demolition Summary
Sheet No.	IE(2) ***	Demolition Summary
Sheet No.	IF ***	Survey Control Data
Sheet No.	IF(1) ***	Survey Control Data
Sheet No.	IF(2) ***	Survey Control Data
Sheet No.	IG	Not Used
Sheet No.	IG(1)	Horizontal Construction Alignment Data
Sheet No.	IG(1A)***	Horizontal Construction Alignment Data
Sheet No.	IG(1B)	Horizontal Construction Alignment Data
Sheet No.	IG(1C)	Horizontal Construction Alignment Data
Sheet No.	IG(1D)	Horizontal Construction Alignment Data
Sheet No.	IG(1E)***	Proposed Baselines
Sheet No.	IG(1F)	Proposed Baselines
Sheet No.	IG(1G) ***	Roundabout Horizontal Construction Alignment Data
Sheet No.	IG(2) ***	DDI Crossover-1 Details
Sheet No.	IG(2A) ***	DDI Crossover-1 Details
Sheet No.	IG(2B) ***	DDI Crossover-2 Details
Sheet No.	IG(2C) ***	DDI Crossover-2 Details
Sheet No.	IG(2D) ***	Gore Grading Details
Sheet No.	IG(2E) ***	Gore Grading Details
Sheet No.	IG(2F) ***	Gore Grading Details
Sheet No.	IG(2G) ***	Roundabout Details
Sheet No.	IG(3)	Geometric Data
Sheet No.	IG(4)	Geometric Data
Sheet No.	IG(4(1))	Geometric Data
Sheet No.	IG(5) ***	Geometric Data
Sheet No.	IG(6) ***	Geometric Data
Sheet No.	IG(6(1)) ***	Geometric Data
Sheet No.	IG(6(2)) ***	Geometric Data
Sheet No.	IG(7) ***	Geometric Data
Sheet No.	IG(8) ***	Geometric Data
Sheet No.	IG(8(1)) ***	Geometric Data
Sheet No.	IG(8(2)) ***	Geometric Data
Sheet No.	IG(9) ***	Geometric Data
Sheet No.	IG(10) ***	Geometric Data
Sheet No.	IG(11) ***	Geometric Data
Sheet No.	IG(12) ***	Geometric Data
Sheet No.	IG(13) ***	Geometric Data
Sheet No.	IG(14) ***	Geometric Data
Sheet No.	IG(15) ***	Geometric Data
Sheet No.	IG(15(1)) ***	Geometric Data
Sheet No.	IG(15(2)) ***	Geometric Data
Sheet No.	IG(15(3)) ***	Geometric Data
Sheet No.	IG(16) ***	Geometric Data
Sheet No.	IG(17) ***	Geometric Data
Sheet No.	IG(18) ***	Geometric Data
Sheet No.	IG(18(1)) ***	Geometric Data
Sheet No.	IG(19) ***	Geometric Data
Sheet No.	IG(19(1)) ***	Geometric Data
Sheet No.	IG(19(2)) ***	Geometric Data
Sheet No.	IG(20) ***	Geometric Data
Sheet No.	IG(20(1)) ***	Geometric Data
Sheet No.	IG(20(2)) ***	Geometric Data
Sheet No.	IG(20(3)) ***	Geometric Data
Sheet No.	IG(21) ***	Geometric Data
Sheet No.	IG(22) ***	Geometric Data
Sheet No.	IG(22(1)) ***	Geometric Data
Sheet No.	IG(22(2)) ***	Geometric Data
Sheet No.	IG(22(3)) ***	Geometric Data
Sheet No.	IG(23) ***	Geometric Data
Sheet No.	IG(24) ***	Geometric Data
Sheet No.	IH ***	Underground Utilities Test Hole Information
Sheet No.	IH(1) ***	Underground Utilities Test Hole Information
Sheet No.	I***	TMP/SOC Temporary Traffic Control Plan General Notes
Sheet No.	II(1)***	TMP/SOC VWAPM TTC Details

INDEX OF SHEETS

SHEET NO.	DESCRIPTION OF SHEETS
Sheet No. II(2)***	TMP/SOC VWAPM TTC Details
Sheet No. II(3)***	TMP/SOC VWAPM TTC Details
Sheet No. II(4)***	TMP/SOC VWAPM TTC Details
Sheet No. IJ(1) - IJ(4)***	TMP/SOC Phase 1 Typical
Sheet No. IJ(5) - IJ(9)***	TMP/SOC Phase 1
Sheet No. IK(1) - IK(4)***	TMP/SOC Phase 2 Typical
Sheet No. IK(6) - IK(17)***	TMP/SOC Phase 2
Sheet No. IK(1A)***	TMP/SOC Phase 2A Typical
Sheet No. IK(2A)***	TMP/SOC Phase 2A Typical
Sheet No. IK(15A)***	TMP/SOC Phase 2A
Sheet No. IK(16A)***	TMP/SOC Phase 2A
Sheet No. IK(16A(1))***	TMP/SOC Phase 2A
Sheet No. IK(17A)***	TMP/SOC Phase 2A
Sheet No. IK(18A)***	TMP/SOC Phase 2A
Sheet No. IK(18A(1))***	TMP/SOC Phase 2A
Sheet No. IK(19A)***	TMP/SOC Phase 2A
Sheet No. IL(1)***	TMP/SOC Phase 3 Typical
Sheet No. IL(2)***	TMP/SOC Phase 3 Typical
Sheet No. IL(3)***	TMP/SOC Phase 3 Typical
Sheet No. IL(4)***	TMP/SOC Phase 3 Typical
Sheet No. IL(5)***	TMP/SOC Phase 3 Typical
Sheet No. IL(6)***	TMP/SOC Phase 3 Typical
Sheet No. IL(7)***	TMP/SOC Phase 3 Typical
Sheet No. IL(7A)***	TMP/SOC Phase 3 & 3A Typical
Sheet No. IL(7B)***	TMP/SOC Phase 3B Typical
Sheet No. IL(8)***	TMP/SOC Phase 3
Sheet No. IL(9)***	TMP/SOC Phase 3
Sheet No. IL(9(1))***	TMP/SOC Phase 3
Sheet No. IL(10)***	TMP/SOC Phase 3
Sheet No. IL(11)***	TMP/SOC Phase 3
Sheet No. IL(12)***	TMP/SOC Phase 3
Sheet No. IL(13)***	TMP/SOC Phase 3
Sheet No. IL(13A)***	TMP/SOC Phase 3A
Sheet No. IL(13A(1))***	TMP/SOC Phase 3A
Sheet No. IL(13B)***	TMP/SOC Phase 3B
Sheet No. IL(13B(1))***	TMP/SOC Phase 3B
Sheet No. IL(14)***	TMP/SOC Phase 3
Sheet No. IL(14A)***	TMP/SOC Phase 3A
Sheet No. IL(14B)***	TMP/SOC Phase 3B
Sheet No. IL(15)***	TMP/SOC Phase 3
Sheet No. IL(16)***	TMP/SOC Phase 3
Sheet No. IL(17)***	TMP/SOC Phase 3
Sheet No. IL(18)***	TMP/SOC Phase 3
Sheet No. IL(18(1))***	TMP/SOC Phase 3
Sheet No. IL(19)***	TMP/SOC Phase 3
Sheet No. IM(1)***	TMP/SOC Phase 4 Typical
Sheet No. IM(5)***	TMP/SOC Phase 4
Sheet No. IM(6)***	TMP/SOC Phase 4
Sheet No. IM(7)***	TMP/SOC Phase 4
Sheet No. IN(1)***	TMP/SOC Phase 5 Typical
Sheet No. IN(5)***	TMP/SOC Phase 5
Sheet No. IN(6)***	TMP/SOC Phase 5
Sheet No. IN(6(1))***	TMP/SOC Phase 5
Sheet No. IN(7)***	Phase 5 PCMS Detour Routes
Sheet No. IO(1)***	TMP/SOC Phase 6 Typical
Sheet No. IO(1A)***	TMP/SOC Phase 6A Typical
Sheet No. IO(12)***	TMP/SOC Phase 6
Sheet No. IO(12A)***	TMP/SOC Phase 6A
Sheet No. IO(17)***	TMP/SOC Phase 6
Sheet No. IO(17A)***	TMP/SOC Phase 6A
Sheet No. IO(18)***	TMP/SOC Phase 6
Sheet No. IO(18(1))***	TMP/SOC Phase 6
Sheet No. IO(18A)***	TMP/SOC Phase 6A
Sheet No. IO(19)***	TMP/SOC Phase 6
Sheet No. IP	Soils Map & Table
Sheet No. IQ	Stormwater Pollution Prevention Plan (SWPPP) General Information Sheet
Sheet No. IQ(1) ***	Stormwater Pollution Prevention Plan (SWPPP) General Information Sheet
Sheet No. IQ(2) ***	Stormwater Pollution Prevention Plan (SWPPP) General Information Sheet
Sheet No. IQ(3) ***	Stormwater Pollution Prevention Plan (SWPPP) General Information Sheet
Sheet No. IQ(3A) ***	Pre-Development Overall Drainage Area Map PL34
Sheet No. IQ(3B) ***	Pre-Development Overall Drainage Area Map PL44
Sheet No. IQ(3C) ***	Post-Development Overall Drainage Area Map PL34
Sheet No. IQ(3D) ***	Post-Development Overall Drainage Area Map PL44
Sheet No. IQ(4)	Stormwater Management Facility Plan - PL34-BMP-1 Detail Sheet
Sheet No. IQ(5)	Stormwater Management Facility Profile - PL34-BMP-1 Detail Sheet
Sheet No. IQ(6)	Stormwater Management Facility Details - PL34-BMP-1 Detail Sheet
Sheet No. IQ(7)	Stormwater Management Facility Checklist - PL34-BMP-1 Detail Sheet
Sheet No. IQ(8)	Stormwater Management Facility Checklist - PL34-BMP-1 Detail Sheet
Sheet No. IQ(9)	Stormwater Management Facility Checklist - PL34-BMP-1 Detail Sheet
Sheet No. IQ(10)	Stormwater Management Facility Checklist - PL34-BMP-1 Detail Sheet

INDEX OF SHEETS

SHEET NO.	DESCRIPTION OF SHEETS
Sheet No. IQ(11)	Stormwater Management Facility Checklist - PL34-BMP-1 Detail Sheet
Sheet No. IQ(12) ***	Stormwater Management Facility Plan - PL44-BMP-4 Detail Sheet
Sheet No. IQ(13) ***	Stormwater Management Facility Profile - PL44-BMP-4 Detail Sheet
Sheet No. IQ(14) ***	Stormwater Management Facility Details - PL44-BMP-4 Detail Sheet
Sheet No. IQ(15) ***	Stormwater Management Facility Details - PL44-BMP-4 Detail Sheet
Sheet No. IQ(16) ***	Stormwater Management Facility Checklist - PL44-BMP-4 Detail Sheet
Sheet No. IQ(17) ***	Stormwater Management Facility Checklist - PL44-BMP-4 Detail Sheet
Sheet No. IQ(18) ***	Stormwater Management Facility Checklist - PL44-BMP-4 Detail Sheet
Sheet No. IQ(19) ***	Stormwater Management Facility Checklist - PL44-BMP-4 Detail Sheet
Sheet No. IQ(20) ***	Stormwater Management Facility Plan - PL34-BMP-5 Detail Sheet
Sheet No. IQ(21) ***	Stormwater Management Facility Profile - PL34-BMP-5 Detail Sheet
Sheet No. IQ(22) ***	Stormwater Management Facility Details - PL34-BMP-5 Detail Sheet
Sheet No. IQ(23) ***	Stormwater Management Facility Details - PL34-BMP-5 Detail Sheet
Sheet No. IQ(24) ***	Stormwater Management Facility Checklist - PL34-BMP-5 Detail Sheet
Sheet No. IQ(25) ***	Stormwater Management Facility Checklist - PL34-BMP-5 Detail Sheet
Sheet No. IQ(26) ***	Stormwater Management Facility Checklist - PL34-BMP-5 Detail Sheet
Sheet No. IQ(27) ***	Stormwater Management Facility Checklist - PL34-BMP-5 Detail Sheet
Sheet No. IQ(28) ***	Stormwater Management Facility Plan - PL34-BMP-9 Detail Sheet
Sheet No. IQ(29) ***	Stormwater Management Facility Profile - PL34-BMP-9 Detail Sheet
Sheet No. IQ(30) ***	Stormwater Management Facility Details - PL34-BMP-9 Detail Sheet
Sheet No. IQ(31) ***	Stormwater Management Facility Details - PL34-BMP-9 Detail Sheet
Sheet No. IQ(32) ***	Stormwater Management Facility Checklist - PL34-BMP-9 Detail Sheet
Sheet No. IQ(33) ***	Stormwater Management Facility Checklist - PL34-BMP-9 Detail Sheet
Sheet No. IQ(34) ***	Stormwater Management Facility Checklist - PL34-BMP-9 Detail Sheet
Sheet No. IQ(35) ***	Stormwater Management Facility Checklist - PL34-BMP-9 Detail Sheet
Sheet No. IQ(36) ***	Stormwater Management Facility Plan - PL44-BMP-10 Detail Sheet
Sheet No. IQ(37) ***	Stormwater Management Facility Profile - PL44-BMP-10 Detail Sheet
Sheet No. IQ(38) ***	Stormwater Management Facility Details - PL44-BMP-10 Detail Sheet
Sheet No. IQ(39) ***	Stormwater Management Facility Details - PL44-BMP-10 Detail Sheet
Sheet No. IQ(40) ***	Stormwater Management Facility Details - PL44-BMP-10 Detail Sheet
Sheet No. IQ(41) ***	Stormwater Management Facility Checklist - PL44-BMP-10 Detail Sheet
Sheet No. IQ(42) ***	Stormwater Management Facility Checklist - PL44-BMP-10 Detail Sheet
Sheet No. IQ(43) ***	Stormwater Management Facility Checklist - PL44-BMP-10 Detail Sheet
Sheet No. IQ(44) ***	Stormwater Management Facility Checklist - PL44-BMP-10 Detail Sheet
Sheet No. IQ(45) ***	Stormwater Management Facility Plan - PL44-BMP-10A Detail Sheet
Sheet No. IQ(46) ***	Stormwater Management Facility Profile - PL44-BMP-10A Detail Sheet
Sheet No. IQ(47) ***	Stormwater Management Facility Details - PL44-BMP-10A Detail Sheet
Sheet No. IQ(48) ***	Stormwater Management Facility Details - PL44-BMP-10A Detail Sheet
Sheet No. IQ(49) ***	Stormwater Management Facility Signage Detail and Nutrient Credit Letter
Sheet No. IQ(50) ***	Prince William County Site Plan Approval Letter
Sheet No. IR ***	Erosion and Sediment Control Plan Notes and Details
Sheet No. IR(1)	Erosion and Sediment Control Plan VESCH Narrative and Checklist
Sheet No. IR(2) ***	Erosion and Sediment Control Plan Details
Sheet No. IR(3) ***	Erosion and Sediment Control Plan Details
Sheet No. IR(4) ***	Erosion and Sediment Control Plan Details
Sheet No. IR(5) ***	Erosion and Sediment Control Plan Details
Sheet No. IR(6) ***	Erosion and Sediment Control Plan Details
Sheet No. IR(7)***	Roadside Development
Sheet No. IR(8) ***	Erosion and Sediment Control Plan Temporary Sediment Basin Details
Sheet No. IR(9) ***	Erosion and Sediment Control Plan Temporary Sediment Basin Details
Sheet No. IR(10) ***	Erosion and Sediment Control Plan Temporary Sediment Basin Details
Sheet No. IR(11) ***	Erosion and Sediment Control Plan Temporary Sediment Basin Details
Sheet No. IR(12) ***	Erosion and Sediment Control Plan Temporary Sediment Basin Details
Sheet No. IR(13) ***	Erosion and Sediment Control Plan Temporary Sediment Basin Details
Sheet No. IR(14) ***	Erosion and Sediment Control Plan Temporary Sediment Trap Details
Sheet No. IR(15) ***	Erosion and Sediment Control Plan Temporary Culvert Details
Sheet No. IR(16) ***	Erosion and Sediment Control Plan Temporary Diversion Channel Details
Sheet No. IR(17) ***	Erosion and Sediment Control Plan Level Spreader Details
Sheet No. IS thru IS(2)	Not Used
Sheet No. IS(2)	Erosion Control Phase 1
Sheet No. IS(3)	Erosion Control Phase 1
Sheet No. IS(4) ***	Erosion Control Phase 1
Sheet No. IS(4(1))	Erosion Control Phase 1
Sheet No. IS(5) ***	Erosion Control Phase 1
Sheet No. IS(6) ***	Erosion Control Phase 1
Sheet No. IS(7) ***	Erosion Control Phase 1
Sheet No. IS(8) ***	Erosion Control Phase 1
Sheet No. IS(8(1)) ***	Erosion Control Phase 1
Sheet No. IS(9) ***	Erosion Control Phase 1
Sheet No. IS(10) ***	Erosion Control Phase 1
Sheet No. IS(11) ***	Erosion Control Phase 1
Sheet No. IS(12) ***	Erosion Control Phase 1
Sheet No. IS(12(1))	Erosion Control Phase 1
Sheet No. IS(12(2)) ***	Erosion Control Phase 1
Sheet No. IS(13)	Erosion Control Phase 1
Sheet No. IS(14) ***	Erosion Control Phase 1
Sheet No. IT thru IT(2)	Not Used
Sheet No. IT(2)	Erosion Control Phase 2
Sheet No. IT(3)	Erosion Control Phase 2
Sheet No. IT(4) ***	Erosion Control Phase 2

REVISED	STATE	ROUTE	PROJECT	SHEET NO.
NDC02 NDC04	VA.	62/	6234-076-266, C-501, RW-201	1B

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

Office Locations: Richmond, VA; Fairfax, VA; Falls Church, VA; Herndon, VA; Leesville, VA; Manassas, VA; Manassas Park, VA; Northern Virginia; Potomac, MD; Washington, DC; York, PA

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

NOVA DISTRICT DESIGN UNIT

7/1/2021

PROJECT MANAGER PWC DOT-Mary Ankers (703) 792-4228 SURVEYED BY, DATE Rinker Design Associates, P.C. (703) 369-7373, April 2020 DESIGN BY Rinker Design Associates, Mark Gunn, P.E. (703) 368-7373 SUBSURFACE UTILITY BY, DATE Acumark (703) 635-3060, May 2020

Index of Sheets

REVISED NDC02 NDC04	STATE VA.	ROUTE 62/	STATE PROJECT 6234-076-266, C-501, RW-201	SHEET NO. 1B(1)
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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
Sheet No. IT(4)11	Erosion Control Phase 2
Sheet No. IT(5) ***	Erosion Control Phase 2
Sheet No. IT(6) ***	Erosion Control Phase 2
Sheet No. IT(7) ***	Erosion Control Phase 2
Sheet No. IT(8) ***	Erosion Control Phase 2
Sheet No. IT(8)11 ***	Erosion Control Phase 2
Sheet No. IT(9) ***	Erosion Control Phase 2
Sheet No. IT(10) ***	Erosion Control Phase 2
Sheet No. IT(11) ***	Erosion Control Phase 2
Sheet No. IT(12) ***	Erosion Control Phase 2
Sheet No. IT(12)11 ***	Erosion Control Phase 2
Sheet No. IT(13) ***	Erosion Control Phase 2
Sheet No. IT(14) ***	Erosion Control Phase 2
Sheet No. 2 ***	Project General Notes and Legend
Sheet No. 2A ***	Typical Sections
Sheet No. 2A(1) ***	Typical Sections
Sheet No. 2A(2) ***	Typical Sections
Sheet No. 2A(3) ***	Typical Sections
Sheet No. 2A(4) ***	Typical Sections
Sheet No. 2A(5) ***	Typical Sections
Sheet No. 2A(6) ***	Typical Sections
Sheet No. 2A(7) ***	Typical Sections
Sheet No. 2A(8) ***	Typical Sections
Sheet No. 2A(9) ***	Typical Sections
Sheet No. 2A(10) ***	Typical Sections
Sheet No. 2A(11) ***	Typical Sections
Sheet No. 2A(12) ***	Typical Sections
Sheet No. 2A(12)11 ***	Typical Sections
Sheet No. 2A(13) ***	Typical Sections
Sheet No. 2A(14) ***	Typical Sections
Sheet No. 2A(15) ***	Typical Sections
Sheet No. 2A(16) ***	Geotechnical Recommendations
Sheet No. 2A(17) ***	Geotechnical Recommendations
Sheet No. 2A(18) ***	Geotechnical Recommendations
Sheet No. 2A(19) ***	Geotechnical Recommendations
Sheet No. 2A(20) ***	Geotechnical Recommendations
Sheet No. 2A(21) ***	Geotechnical Recommendations
Sheet No. 2A(22) ***	Geotechnical Recommendations
Sheet No. 2A(23) ***	Geotechnical Recommendations
Sheet No. 2A(24) ***	Geotechnical Recommendations - Roundabout
Sheet No. 2A(25) ***	Geotechnical Recommendations - Roundabout
Sheet No. 2A(26) ***	Geotechnical Recommendations - Roundabout
Sheet No. 2A(27) ***	Typical Sections - Roundabout
Sheet No. 2A(28) ***	Typical Sections - Roundabout
Sheet No. 2B	Curb Ramp Details
Sheet No. 2B(1) ***	Curb Ramp Details
Sheet No. 2B(2) ***	Curb Ramp Details
Sheet No. 2B(3) ***	Curb Ramp Details
Sheet No. 2B(4) ***	Curb Return Profiles
Sheet No. 2B(5) ***	Curb Return Profiles
Sheet No. 2B(6) ***	Curb Return Profiles
Sheet No. 2B(7) ***	Curb Return Profiles
Sheet No. 2B(8) ***	Curb Return Profiles
Sheet No. 2B(9) ***	Curb Return Profiles
Sheet No. 2B(10) ***	Curb Return Profiles
Sheet No. 2C ***	Moment Slab Details
Sheet No. 2C(1) ***	Moment Slab Details
Sheet No. 2C(2) ***	Moment Slab Details
Sheet No. 2C(3) ***	Moment Slab Details
Sheet No. 2K ***	Existing Drainage Descriptions
Sheet No. 2K(1) ***	Existing Drainage Descriptions
Sheet No. 2L	Proposed Drainage Descriptions
Sheet No. 2L(1) ***	Proposed Drainage Descriptions
Sheet No. 2L(2) ***	Proposed Drainage Descriptions
Sheet No. 2L(3) ***	Proposed Drainage Descriptions
Sheet No. 2L(4) ***	Proposed Drainage Descriptions
Sheet No. 2L(5) ***	Proposed Drainage Descriptions
Sheet No. 2L(6) ***	Proposed Drainage Descriptions and Allowable Pipe Tables
Sheet No. 2L(7) ***	Drainage Details
Sheet No. 2M	Ditch Typical
Sheet No. 2M(1) ***	Ditch Profiles
Sheet No. 2M(2) ***	Ditch Profiles
Sheet No. 2M(3) ***	Ditch Profiles
Sheet No. 2M(4) ***	Ditch Profiles
Sheet No. 2N	Storm Sewer Profiles
Sheet No. 2N(1) ***	Storm Sewer Profiles
Sheet No. 2N(2) ***	Storm Sewer Profiles
Sheet No. 2N(3) ***	Storm Sewer Profiles
Sheet No. 2N(4) ***	Storm Sewer Profiles

INDEX OF SHEETS

SHEET NO.	DESCRIPTION OF SHEETS
Sheet No. 2N(5) ***	Storm Sewer Profiles
Sheet No. 2N(6) ***	Storm Sewer Profiles
Sheet No. 2N(7) ***	Storm Sewer Profiles
Sheet No. 2N(8) ***	Storm Sewer Profiles
Sheet No. 2N(9) ***	Storm Sewer Profiles
Sheet No. 2N(10) ***	Storm Sewer Profiles
Sheet No. 2N(11) ***	Storm Sewer Profiles
Sheet No. 2N(12) ***	Storm Sewer Profiles
Sheet No. 2N(13) ***	Storm Sewer Profiles
Sheet No. 2N(14) ***	Storm Sewer Profiles
Sheet No. 2N(15) ***	Storm Sewer Profiles
Sheet No. 2N(16) ***	Storm Sewer Profiles
Sheet No. 2N(17) ***	Storm Sewer Profiles
Sheet No. 2N(18) ***	Storm Sewer Profiles
Sheet No. 2N(19) ***	Storm Sewer Profiles
Sheet No. 2N(20) ***	Storm Sewer Profiles
Sheet No. 2N(21) ***	Storm Sewer Profiles
Sheet No. 2P	Underdrain Summary
Sheet No. 2P(1) ***	Underdrain Summary
Sheet No. 2S	Bullet Nose & Radial Offsets Data
Sheet No. 3	Plan Sheet - Balls Ford Road Begin to Sta.108+00
Sheet No. 3G ***	Grading Plan - Balls Ford Road Begin to Sta.108+00
Sheet No. 3A	Profile Sheet - Balls Ford Road Begin to Sta.108+00
Sheet No. 3(1) ***	Plan Sheet - Balls Ford Road
Sheet No. 4	Plan Sheet - Balls Ford Road Sta.108+00 to 115+00
Sheet No. 4G ***	Grading Plan - Balls Ford Road Sta.108+00 to 115+00
Sheet No. 4A	Profile Sheet - Balls Ford Road Sta.122+25 to 129+50
Sheet No. 4B	Profile Sheet - Hansen Farm Road
Sheet No. 4(1) ***	Plan Sheet - Hansen Farm Road Sta.602+00 to End
Sheet No. 4(1)G ***	Grading Plan - Hansen Farm Road Sta.602+00 to End
Sheet No. 4(2) ***	Plan Sheet - BMP 1-I
Sheet No. 4(2)G ***	Grading Plan - BMP 1-I
Sheet No. 5	Plan Sheet - Balls Ford Road Sta.115+00 to 122+25
Sheet No. 5G ***	Grading Plan - Balls Ford Road Sta.115+00 to 122+25
Sheet No. 5A ***	Profile Sheet - Balls Ford Road Sta.115+00 to 122+25
Sheet No. 6 ***	Plan Sheet - Balls Ford Road Sta.122+25 to 129+50
Sheet No. 6G ***	Grading Plan - Balls Ford Road Sta.122+25 to 129+50
Sheet No. 6A ***	Profile Sheet - Balls Ford Rd Sta.122+25 to 129+50
Sheet No. 6B ***	Profile Sheet - Wellington Road Sta.51+25 to End
Sheet No. 6(1) ***	Plan Sheet - Wellington Road Sta. Begin to 51+25
Sheet No. 6(1)G ***	Grading Plan - Wellington Road Sta. Begin to 51+25
Sheet No. 6(1A) ***	Profile Sheet - Wellington Road Sta.506+00 to 51+25
Sheet No. 6(2) ***	Plan Sheet - Wellington Road Sta.515+75 to End
Sheet No. 6(2)G ***	Grading Plan - Wellington Road Sta.515+75 to End
Sheet No. 7 ***	Plan Sheet - Balls Ford Road Sta.129+50 to 136+50
Sheet No. 7G ***	Grading Plan - Balls Ford Road Sta.129+50 to 136+50
Sheet No. 7A ***	Profile Sheet - Balls Ford Road Sta.129+50 to 136+50
Sheet No. 8 ***	Plan Sheet - Balls Ford Road Sta.136+50 to 143+50
Sheet No. 8G ***	Grading Plan - Balls Ford Road Sta.136+50 to 143+50
Sheet No. 8A ***	Profile Sheet - Balls Ford Road Sta.136+50 to 143+50
Sheet No. 8B ***	Profile Sheet - Wellington Drive Sta.403+50 to End
Sheet No. 8(1) ***	Plan Sheet - Wellington Drive Sta.400+00 to 403+50
Sheet No. 8(1)G ***	Grading Plan - Wellington Drive Sta.400+00 to 403+50
Sheet No. 8(1A) ***	Profile Sheet - Wellington Drive Sta.400+00 to 403+50
Sheet No. 8(2) ***	Plan Sheet - Wellington Drive Sta.407+00 to End
Sheet No. 8(2)G ***	Grading Plan - Wellington Drive Sta.407+00 to End
Sheet No. 9 ***	Plan Sheet - Balls Ford Road Sta.143+50 to Sta.150+25
Sheet No. 9G ***	Grading Plan - Balls Ford Road Sta.143+50 to Sta.150+25
Sheet No. 9A ***	Profile Sheet - Balls Ford Road Sta.143+50 to Sta.150+25
Sheet No. 10 ***	Plan Sheet - Balls Ford Road Sta.150+25 to Sta.157+50
Sheet No. 10G ***	Grading Plan - Balls Ford Road Sta.150+25 to Sta.157+50
Sheet No. 10A ***	Profile Sheet - Balls Ford Road Sta.150+25 to Sta.157+50
Sheet No. 11 ***	Plan Sheet - Balls Ford Road Sta.157+50 to Sta.165+00
Sheet No. 11G ***	Grading Plan - Balls Ford Road Sta.157+50 to Sta.165+00
Sheet No. 11A ***	Profile Sheet - Balls Ford Road Sta.157+50 to 165+00
Sheet No. 11B ***	Profile Sheet - Prince William Parkway Sta.220+00 to 224+00
Sheet No. 12 ***	Plan Sheet - Balls Ford Road Sta.165+00 to Sta.172+25
Sheet No. 12G ***	Grading Plan - Balls Ford Road Sta.165+00 to Sta.172+25
Sheet No. 12A ***	Profile Sheet - Balls Ford Road Sta.165+00 to 172+25
Sheet No. 13 ***	Plan Sheet - Balls Ford Road Sta.172+25 to Sta.179+75
Sheet No. 13G ***	Grading Plan - Balls Ford Road Sta.172+25 to Sta.179+75
Sheet No. 13A ***	Profile Sheet - Balls Ford Road Sta.172+25 to 179+75
Sheet No. 13(1) ***	PL44-BMP-4 Extended Detention Basin
Sheet No. 13(1)G ***	Grading Plan - PL44-BMP-4 Extended Detention Basin
Sheet No. 14 ***	Plan Sheet - Balls Ford Road Sta.179+75 to Sta.186+25
Sheet No. 14G ***	Grading Plan - Balls Ford Road Sta.179+75 to Sta.186+25
Sheet No. 14A ***	Profile Sheet - Balls Ford Road Sta.179+75 to 186+25
Sheet No. 15 ***	Plan Sheet - Balls Ford Road Sta.186+25 to End
Sheet No. 15G ***	Grading Plan - Balls Ford Road Sta.186+25 to End
Sheet No. 15A ***	Profile Sheet - Balls Ford Road Sta.186+25 to End

INDEX OF SHEETS

SHEET NO.	DESCRIPTION OF SHEETS
Sheet No. 15B ***	Profile Sheet - Brady Lane Sta.202+00 to 202+00 / Doane Drive
Sheet No. 15(1) ***	Plan Sheet - Brady Lane Sta.202+00 to 207+50
Sheet No. 15(1)G ***	Grading Plan - Brady Lane Sta.202+00 to 207+50
Sheet No. 15(1A) ***	Profile Sheet - Brady Lane Sta.202+00 to 207+50
Sheet No. 15(2) ***	Plan Sheet - Brady Lane Sta.207+50 to 214+50
Sheet No. 15(2)G ***	Grading Plan - Brady Lane Sta.207+50 to 214+50
Sheet No. 15(2A) ***	Profile Sheet - Brady Lane Sta.207+50 to End
Sheet No. 15(3) ***	Plan Sheet - Brady Lane Sta.214+50 to End
Sheet No. 15(3)G ***	Grading Plan - Brady Lane Sta.214+50 to End
Sheet No. 16 ***	Plan Sheet - Prince William Parkway Sta.200+00 to 206+00
Sheet No. 16G ***	Grading Plan - Prince William Parkway Sta.200+00 to 206+00
Sheet No. 16A ***	Profile Sheet - Prince William Parkway Sta.200+00 to 206+00
Sheet No. 17 ***	Plan Sheet - Prince William Parkway Sta.206+00 to 212+50
Sheet No. 17G ***	Grading Plan - Prince William Parkway Sta.206+00 to 212+50
Sheet No. 17A ***	Profile Sheet - Prince William Parkway Sta.206+00 to 212+50
Sheet No. 17(1) ***	PL34-BMP-9 Existing VDOT Facility Retrofit to Provide Retention Basin II
Sheet No. 17(1)G ***	Grading Plan - PL34-BMP-9 Ex.VDOT Facility Retrofit to Provide Ret.Basin II
Sheet No. 18 ***	Plan Sheet - Prince William Parkway Sta.212+50 to 217+00
Sheet No. 18G ***	Grading Plan - Prince William Parkway Sta.212+50 to 217+00
Sheet No. 18A ***	Profile Sheet - Prince William Parkway Sta.212+50 to 217+00
Sheet No. 18(1) ***	Plan Sheet - Ramp 3A Sta.306+50 to 312+00
Sheet No. 18(1)G ***	Grading Plan - Ramp 3A Sta.306+50 to 312+00
Sheet No. 19 ***	Plan Sheet - Prince William Parkway Sta.217+00 to 220+00
Sheet No. 19G ***	Grading Plan - Prince William Parkway Sta.217+00 to 220+00
Sheet No. 19A ***	Profile Sheet - Prince William Parkway Sta.217+00 to 220+00
Sheet No. 19(1) ***	Plan Sheet - Ramp 3 Sta.251+75 to 306+50 / Ramp 3A Sta.302+75 to End
Sheet No. 19(1)G ***	Grading Plan - Ramp 3 Sta.251+75 to 306+50 / Ramp 3A Sta.302+75 to End
Sheet No. 19(2) ***	Plan Sheet - Ramp 4 Sta.500+00 to 502+25 / Ramp 4A Sta.416+00 to 419+25
Sheet No. 19(2)G ***	Grading Plan - Ramp 4 Sta.500+00 to 502+25 / Ramp 4A Sta.416+00 to 419+25
Sheet No. 20 ***	Plan Sheet - Prince William Parkway Sta.224+00 to 228+00
Sheet No. 20G ***	Grading Plan - Prince William Parkway Sta.224+00 to 228+00
Sheet No. 20A ***	Profile Sheet - Prince William Parkway Sta.224+00 to 228+00
Sheet No. 20(1) ***	Plan Sheet - Ramp 2A Sta.63+00 to 69+00 / Ramp 2 Sta.80+00 to 82+75
Sheet No. 20(1)G ***	Grading Plan - Ramp 2A Sta.63+00 to 69+00 / Ramp 2 Sta.80+00 to 82+75
Sheet No. 20(2) ***	Plan Sheet - Ramp 1A Sta.103+00 to 106+00 / Ramp 1 Sta.143+00 to End
Sheet No. 20(2)G ***	Grading Plan - Ramp 1A Sta.103+00 to 106+00 / Ramp 1 Sta.143+00 to End
Sheet No. 20(3) ***	Plan Sheet - Ramp 1A Sta.106+00 to 111+50
Sheet No. 20(3)G ***	Grading Plan - Ramp 1A Sta.106+00 to 111+50
Sheet No. 21 ***	Plan Sheet - Prince William Parkway Sta.228+00 to 234+00
Sheet No. 21G ***	Grading Plan - Prince William Parkway Sta.228+00 to 234+00
Sheet No. 21A ***	Profile Sheet - Prince William Parkway Sta.228+00 to 234+00
Sheet No. 22 ***	Plan Sheet - Prince William Parkway Sta.234+00 to 240+50
Sheet No. 22G ***	Grading Plan - Prince William Parkway Sta.234+00 to 240+50
Sheet No. 22A ***	Profile Sheet - Prince William Parkway Sta.234+00 to 240+50
Sheet No. 22(1) ***	Plan Sheet - Ramp 2B Sta.83+50 to End
Sheet No. 22(1)G ***	Grading Plan - Ramp 2B Sta.83+50 to End
Sheet No. 22(2) ***	Plan Sheet - Ramp 1B Sta.152+50 to End
Sheet No. 22(2)G ***	Grading Plan - Ramp 1B Sta.152+50 to End
Sheet No. 22(3) ***	Plan Sheet
Sheet No. 22(3)G ***	Grading Plan
Sheet No. 22(3A) ***	Profile Sheet - Delinski Way Begin to Sta.57+00
Sheet No. 22(3B) ***	Profile Sheet - Delinski Way Sta.57+00 to End
Sheet No. 22(3C) ***	Profile Sheet - Hansen Farm Road
Sheet No. 22(3D) ***	Profile Sheet - Emergency Access
Sheet No. 23 ***	Plan Sheet - Prince William Parkway Sta.240+50 to 248+00
Sheet No. 23G ***	Grading Plan - Prince William Parkway Sta.240+50 to 248+00
Sheet No. 23A ***	Profile Sheet - Prince William Parkway Sta.240+50 to 248+00
Sheet No. 24 ***	Plan Sheet - Prince William Parkway Sta.248+00 to End
Sheet No. 24G ***	Grading Plan - Prince William Parkway Sta.248+00 to End
Sheet No. 24A ***	Profile Sheet - Prince William Parkway Sta.248+00 to End
Sheet No. 25(1)	Not Used
Sheet No. 25(1A) ***	Profile Sheet - Balls Ford DDI North Sta.10+00 to 17+00
Sheet No. 25(1B) ***	Profile Sheet - Balls Ford DDI North Sta.17+00 to 24+00
Sheet No. 25(1C) ***	Profile Sheet - Balls Ford DDI North Sta.24+00 to End
Sheet No. 25(2)	Not Used
Sheet No. 25(2A) ***	Profile Sheet - Balls Ford DDI South Sta.10+00 to 17+00
Sheet No. 25(2B) ***	Profile Sheet - Balls Ford DDI South Sta.17+00 to 24+00
Sheet No. 25(2C) ***	Profile Sheet - Balls Ford DDI South Sta.24+00 to End
Sheet No. 25(3) ***	Profile Sheet - Ramp 1
Sheet No. 25(4)	Not Used
Sheet No. 25(4A) ***	Profile Sheet - Ramp 1A Sta.100+00 to 107+00
Sheet No. 25(4B) ***	Profile Sheet - Ramp 1A Sta.107+00 to 114+00
Sheet No. 25(4C) ***	Profile Sheet - Ramp 1A Sta.114+00 to 121+00
Sheet No. 25(4D) ***	Profile Sheet - Ramp 1A Sta.121+00 to 128+00
Sheet No. 25(4E) ***	Profile Sheet - Ramp 1A Sta.128+00 to End
Sheet No. 25(5) ***	Profile Sheet - Ramp 1B
Sheet No. 25(6) ***	Profile Sheet - Ramp 2
Sheet No. 25(7)	Not Used
Sheet No. 25(7A) ***	Profile Sheet - Ramp 2A Sta.38+00 to 45+00
Sheet No. 25(7B) ***	Profile Sheet - Ramp 2A Sta.45+00 to 52+00

NOVA DISTRICT DESIGN UNIT
7/1/2021
CDARinker
Design Associates, P.C.
Civil Engineering - Surveying - Land Planning
Transportation - Traffic Engineering
Office Locations: Richmond, VA; Fairfax, VA; Falls Church, VA; Herndon, VA; Manassas, VA; Reston, VA; Warrenton, OR

PROJECT MANAGER PWC DOT: Mary Anters (703) 792-4228
SURVEYED BY, DATE Rinker Design Associates, P.C. (703) 369-7373, April 2020
DESIGN BY Rinker Design Associates, Mark Gunn, P.E. (703) 368-7373
SUBSURFACE UTILITY BY, DATE Acumark (703) 635-3060, May 2020

Revision Data Sheet

Table with columns: REVISED, STATE, ROUTE, PROJECT, SHEET NO. Values: VA, 62/1, 6234-076-266, C-501, RW-201, ID

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

(RX) - Right of Way Revision
(XX) - Notice of Design Change and/or Field Change, as applicable.

State Project: 6234-076-266, PE-IOI, RW-201, C-501
Federal Aid Project: N/A
From: Balls Ford Road
To: Doane Drive
UPC Number: 112815

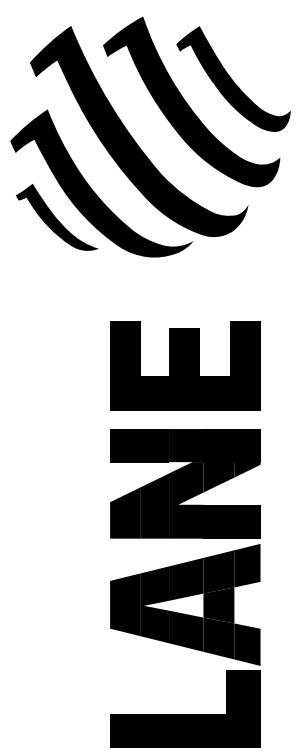
Table of revisions with columns: Revision ID, Date, Description, Project/Sheet Reference. Includes revisions 01, 02, 03, 04.

Table of revision details with columns: Sheet ID, Description. Lists changes to various sheets such as 2M, 10I, 10J, 15I, etc.

Table of revision details with columns: Sheet ID, Description. Lists changes to various sheets such as 10I, 10J, 15I, 15J, etc.

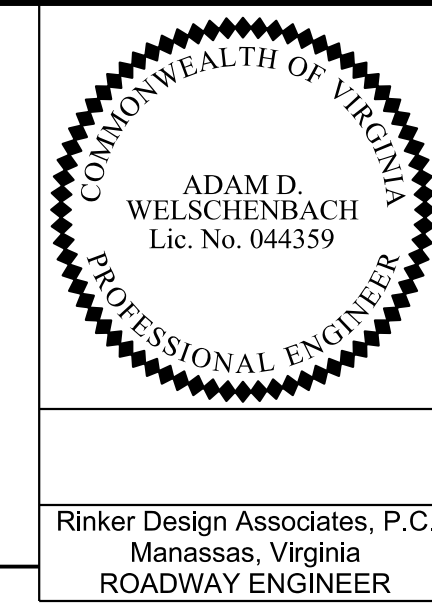
Table of revision details with columns: Sheet ID, Description. Lists changes to various sheets such as 2M, 2N, 2P, 2Q, etc.

Vertical text on the left side: NOVA DISTRICT DESIGN UNIT, LANE, GDA Rinker Design Associates, P.C.



PROJECT MANAGER PWC_DOT, Mary Ankers (703) 792-4228
SURVEYED BY, DATE Rinker Design Associates, P.C. (703) 369-7373, April 2020
DESIGN BY Rinker Design Associates, Mark Gunn, P.E. (703) 368-7373
SUBSURFACE UTILITY BY, DATE Accurmark (703) 635-3060, May 2020

Demolition Summary



REVISED NDC02 NDC04	STATE VA.	ROUTE 62I	STATE PROJECT 6234-076-266, C-50I, RW-20I	SHEET NO. 1E(2)
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- 02 Added demolition number 912 and 913.
- 04 Revised demolition summary for Jennell Drive extension/Hansen Farm Road realignment.

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

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

PROJECT NUMBER 6234-076-266, PE-101

SHEET NUMBER	PARCEL NUMBER	DEMOLITION NUMBER	LANDOWNER	WITHIN EXIST. R/W?	STATION Rt. OR Lt.	DESCRIPTION	INCLUDED IN CONTRACT						NOT IN CONTRACT ITEMS TO BE REMOVED BY OTHERS	
							DEMOLITION OF LIGHTS	DEMOLITION OF BUILDINGS *	CLEARING OF PARCEL	DEMOLITION OF SIGN	MISC. ITEMS	UNDERGROUND STORAGE TANK REMOVAL		
							LUMP SUM	LUMP SUM	LUMP SUM	LUMP SUM	EACH	TYPE A		TYPE B
9	058	962	USF PROPCO I, LLC	No	149+47, 95' LT (Balls Ford Rd.)	Light	-	-	-	-	1	-	-	-
10	058	963	USF PROPCO I, LLC	No	150+49, 94' LT (Balls Ford Rd.)	Light	-	-	-	-	1	-	-	-
7	083	964	Wellington Rd. 40, LLC	Yes	134+93, 118' LT (Balls Ford Rd.)	Stockpile	-	-	-	-	1	-	-	-
21	052	912	Wilson Capital Properties, LLC	Yes	59+45, 85' RT (Ramp 2A)	299' Safety Fence	-	-	-	-	1	-	-	-
22(3)	087	913	Costa Investments, LLC	Yes	57+28, 53' LT (Delinski Wy.)	165' Fence	-	-	-	-	1	-	-	-
3	006	705	Andrew L. Johnson	Yes	107+15, 42' LT (Balls Ford Rd.)	Mailbox	-	-	-	-	1	-	-	-
3	006	901	Andrew L. Johnson	No	106+19, 58' LT (Balls Ford Rd.)	10' Fence	-	-	-	-	1	-	-	-
3	006	094	Andrew L. Johnson	No	106+28, 67' LT (Balls Ford Rd.)	569 SY Drainfield	-	-	-	-	1	-	-	-
3	005	706	Ricardo Esparza Lopez	Yes	105+79, 6' LT (Balls Ford Rd.)	Mailbox	-	-	-	-	1	-	-	-
3	005	907	Ricardo Esparza Lopez	No	105+90, 29' LT (Balls Ford Rd.)	18' Gate	-	-	-	-	1	-	-	-
3	005	933	Ricardo Esparza Lopez	No	104+38, 36' LT (Balls Ford Rd.)	232' Fence	-	-	-	-	1	-	-	-
3	005	093	Ricardo Esparza Lopez	No	105+07, 86' LT (Balls Ford Rd.)	235 SY Drainfield	-	-	-	-	1	-	-	-
3	004	707	Anthony Lineham & Helen Lineham	Yes	104+23, 3' RT (Balls Ford Rd.)	Mailbox	-	-	-	-	1	-	-	-
3	088	708	Felisberto, Carlos & Horacio Magalhaes	Yes	102+53, 1' RT (Balls Ford Rd.)	Mailbox	-	-	-	-	1	-	-	-
3	092	709	8033 Devlin, LLC	Yes	10+90, 13' LT (Jennell Dr.)	Mailbox	-	-	-	-	1	-	-	-
3	091	710	Jarold & Glenna Buchanan	Yes	103+50, 43' RT (Balls Ford Rd.)	Mailbox	-	-	-	-	1	-	-	-
3	091	711	Jarold & Glenna Buchanan	Yes	103+52, 44' RT (Balls Ford Rd.)	Mailbox	-	-	-	-	1	-	-	-
3	090	712	Chris & Helen Markogiannakis	Yes	104+33, 42' RT (Balls Ford Rd.)	Mailbox	-	-	-	-	1	-	-	-
3	012	713	James E. Queen	Yes	105+86, 30' RT (Balls Ford Rd.)	Mailbox	-	-	-	-	1	-	-	-
3	012	714	James E. Queen	Yes	105+85, 39' RT (Balls Ford Rd.)	Broken Mailbox	-	-	-	-	1	-	-	-
3	012	934	James E. Queen	Yes	105+93, 46' RT (Balls Ford Rd.)	16' Fence	-	-	-	-	1	-	-	-

LANE NOVA DISTRICT DESIGN UNIT
 Rinker Design Associates, P.C.
 7/1/2021

PROJECT MANAGER PWC DOT: Mary Ankers (703) 792-4228
SURVEYED BY, DATE Rinker Design Associates, P.C. (703) 369-7373, April 2020
DESIGN BY Rinker Design Associates, Mark Gunn, P.E. (703) 368-7373
SUBSURFACE UTILITY BY, DATE Acumark (703) 635-3060, May 2020

Horizontal Alignment Data

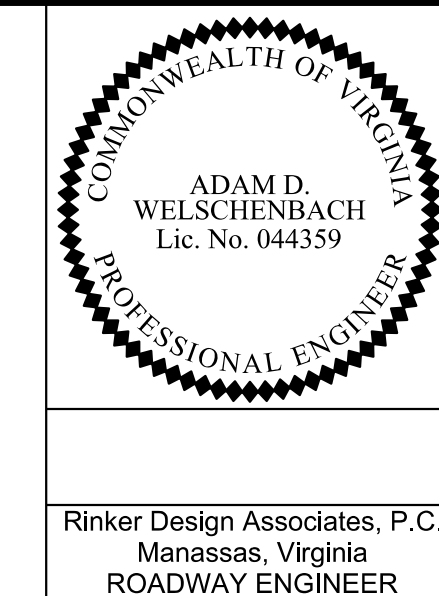


Table with columns: REVISED, STATE, ROUTE, PROJECT, SHEET NO. Values: NDC04, VA, 62I, 6234-076-266, C-501, RW-201, IG(1)

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

Revised data for extended project limits/realignment.

BALLS FORD ROAD

From Sta.100+00.00 to Sta.192+74.99

Chain BALLSFORD_REV contains: D151 CUR C24 CUR C25 CUR C51 CUR C52 CUR C48 BALLSFORDI3

Beginning chain BALLSFORD_REV description

Point D151 N 6,967,158.21 E 11,748,965.08 Sta 100+00.00

Course from D151 to PC C24 N 24°14'51.00" E Dist 157.84

Curve Data table for Curve C24: P.I. Station 103+27.18, Delta 3°13'59.73" (LT), Degree 0°57'17.75", Tangent 169.34, Length 338.59, Radius 6,000.00, External 2.39, Long Chord 338.54, Mid.Ord. 2.45, P.C. Station 104+57.84, P.T. Station 104+96.42, C.C. 6,969,766.20 E 11,743,559.22, Back N 24°14'51.00" E, Ahead N 21°00'51.27" E, Chord Bear N 22°37'51.14" E

Course from PT C24 to PC C25 N 21°00'51.27" E Dist 208.06

Curve Data table for Curve C25: P.I. Station 107+87.25, Delta 3°46'05.43" (RT), Degree 2°16'38.12", Tangent 82.76, Length 165.47, Radius 2,516.00, External 1.36, Long Chord 165.44, Mid.Ord. 1.36, P.C. Station 107+04.48, P.T. Station 108+69.95, C.C. 6,966,906.58 E 11,751,583.44, Back N 21°00'51.27" E, Ahead N 24°46'56.71" E, Chord Bear N 22°53'53.99" E

Course from PT C25 to PC C51 N 24°46'56.71" E Dist 1,904.39

Curve Data table for Curve C51: P.I. Station 130+21.07, Delta 27°43'08.45" (RT), Degree 5°43'46.48", Tangent 246.73, Length 483.79, Radius 1,000.00, External 29.99, Long Chord 479.08, Mid.Ord. 29.11, P.C. Station 127+74.34, P.T. Station 132+58.13, C.C. 6,969,271.06 E 11,751,005.33, Back N 24°46'56.71" E, Ahead N 52°30'05.16" E, Chord Bear N 38°38'30.93" E

Course from PT C51 to PC C52 N 52°30'05.16" E Dist 1,750.20084

Curve Data table for Curve C52: P.I. Station 137+10.14, Delta 8°36'59.39" (LT), Degree 0°57'17.75", Tangent 452.01, Length 902.32, Radius 6,000.00, External 17.00, Long Chord 901.47, Mid.Ord. 16.99, P.C. Station 132+58.13, P.T. Station 141+60.45, C.C. 6,974,824.64 E 11,746,744.14, Back N 52°30'05.16" E, Ahead N 43°53'05.77" E, Chord Bear N 48°11'35.46" E

Course from PT C52 to PC C48 N 43°53'05.77" E Dist 3,115.96

Curve Data table for Curve C48: P.I. Station 176+96.91, Delta 45°36'46.97" (RT), Degree 5°43'46.48", Tangent 420.50, Length 796.10, Radius 1,000.00, External 84.81, Long Chord 775.24, Mid.Ord. 78.18, P.C. Station 172+76.41, P.T. Station 180+72.51, C.C. 6,972,217.93 E 11,753,949.29, Back N 43°53'05.77" E, Ahead N 89°29'52.74" E, Chord Bear N 66°41'29.25" E

Course from PT C48 to BALLSFORDI3 N 89°29'52.74" E Dist 1,202.48

Point BALLSFORDI3 N 6,973,228.43 E 11,755,142.97 Sta 192+74.99

Ending chain BALLSFORD_REV description

DDI SOUTH

From Sta.10+00.00 to Sta.27+21J3

Chain DDI_SOUTH contains: D001 CUR C1 CUR C2 CUR C3 CUR C4 CUR C5 CUR C6 CUR C7 CUR C8 D002

Beginning chain DDI_SOUTH description

Point D001 N 6,971,645.38 E 11,751,981.99 Sta 10+00.00

Course from D001 to PC C1 N 43°53'05.76" E Dist 21.49

Curve Data table for Curve C1: P.I. Station 10+79.41, Delta 6°37'49.90" (LT), Degree 5°43'46.48", Tangent 55.87, Length 110.21, Radius 2,730.00, External 5.66, Long Chord 109.46, Mid.Ord. 5.54, P.C. Station 10+21.49, P.T. Station 11+37.21, C.C. 6,971,660.86 E 11,751,996.89, Back N 43°53'05.77" E, Ahead N 37°15'15.87" E, Chord Bear N 40°34'10.82" E

Course from PT C1 to PC C2 N 37°15'15.87" E Dist 52.28

Curve Data table for Curve C2: P.I. Station 12+45.35, Delta 23°07'49.90" (RT), Degree 20°59'14.87", Tangent 55.87, Length 110.21, Radius 2,730.00, External 5.66, Long Chord 109.46, Mid.Ord. 5.54, P.C. Station 11+89.49, P.T. Station 12+99.70, C.C. 6,971,625.07 E 11,752,321.05, Back N 37°15'15.87" E, Ahead N 60°23'05.77" E, Chord Bear N 48°49'10.82" E

Course from PT C2 to PC C3 N 60°23'05.77" E Dist 171.18

Curve Data table for Curve C3: P.I. Station 15+26.74, Delta 23°07'49.90" (LT), Degree 20°59'14.87", Tangent 55.87, Length 110.21, Radius 2,730.00, External 5.66, Long Chord 109.46, Mid.Ord. 5.54, P.C. Station 14+70.88, P.T. Station 15+81.09, C.C. 6,971,790.33 E 11,752,103.75, Back N 60°23'05.77" E, Ahead N 60°23'05.77" E, Chord Bear N 48°49'10.82" E

Course from PT C3 to PC C4 N 37°15'15.87" E Dist 51.55

Curve Data table for Curve C4: P.I. Station 16+90.57, Delta 6°37'49.90" (RT), Degree 5°43'46.48", Tangent 452.01, Length 902.32, Radius 6,000.00, External 17.00, Long Chord 901.47, Mid.Ord. 16.99, P.C. Station 16+32.64, P.T. Station 17+48.37, C.C. 6,972,060.11 E 11,752,448.55, Back N 37°15'15.87" E, Ahead N 43°53'05.77" E, Chord Bear N 40°34'10.82" E

Course from PT C4 to PC C5 N 43°53'05.77" E Dist 214.40

Curve Data table for Curve C5: P.I. Station 20+20.69, Delta 6°37'49.90" (RT), Degree 5°43'46.48", Tangent 452.01, Length 902.32, Radius 6,000.00, External 17.00, Long Chord 901.47, Mid.Ord. 16.99, P.C. Station 19+62.77, P.T. Station 20+78.49, C.C. 6,972,302.49 E 11,752,672.40, Back N 43°53'05.77" E, Ahead N 89°29'52.74" E, Chord Bear N 66°41'29.25" E

Course from PT C5 to PC C6 N 50°30'55.66" E Dist 51.55

Point BALLSFORDI3 N 6,973,228.43 E 11,755,142.97 Sta 192+74.99

Curve Data table for Curve C6: P.I. Station 21+85.91, Delta 23°07'49.90" (LT), Degree 20°59'14.87", Tangent 55.87, Length 110.21, Radius 2,730.00, External 5.66, Long Chord 109.46, Mid.Ord. 5.54, P.C. Station 21+30.05, P.T. Station 22+40.26, C.C. 6,972,413.86 E 11,752,797.05, Back N 50°30'55.66" E, Ahead N 27°23'05.77" E, Chord Bear N 38°57'00.72" E

Course from PT C6 to PC C7 N 27°23'05.77" E Dist 171.18

Curve Data table for Curve C7: P.I. Station 24+67.30, Delta 23°07'49.90" (RT), Degree 20°59'14.87", Tangent 55.87, Length 110.21, Radius 2,730.00, External 5.66, Long Chord 109.46, Mid.Ord. 5.54, P.C. Station 24+11.43, P.T. Station 25+21.65, C.C. 6,972,650.98 E 11,752,944.60, Back N 27°23'05.77" E, Ahead N 50°30'55.66" E, Chord Bear N 38°57'00.72" E

Course from PT C7 to PC C8 N 50°30'55.66" E Dist 52.28

Curve Data table for Curve C8: P.I. Station 26+31.85, Delta 6°37'49.90" (LT), Degree 5°43'46.48", Tangent 452.01, Length 902.32, Radius 6,000.00, External 17.00, Long Chord 901.47, Mid.Ord. 16.99, P.C. Station 25+73.92, P.T. Station 26+89.65, C.C. 6,972,769.35 E 11,753,053.76, Back N 50°30'55.66" E, Ahead N 43°53'05.77" E, Chord Bear N 47°12'00.71" E

Course from PT C8 to D002 N 43°53'05.77" E Dist 31.48

Point D002 N 6,972,870.62 E 11,753,160.45 Sta 27+21J3

Curve Data table for Curve C9: P.I. Station 10+79.41, Delta 6°37'49.90" (RT), Degree 5°43'46.48", Tangent 452.01, Length 902.32, Radius 6,000.00, External 17.00, Long Chord 901.47, Mid.Ord. 16.99, P.C. Station 10+21.49, P.T. Station 11+37.21, C.C. 6,970,938.54 E 11,752,747.89, Back N 43°53'05.77" E, Ahead N 50°30'55.66" E, Chord Bear N 47°12'00.71" E

Course from PT C9 to PC C10 N 50°30'55.66" E Dist 52.28

Point D003 N 6,971,616.26 E 11,752,012.26 Sta 10+00.00

Course from D003 to PC C9 N 43°53'05.77" E Dist 21.49

Curve Data table for Curve C10: P.I. Station 12+45.35, Delta 23°07'49.90" (LT), Degree 20°59'14.87", Tangent 55.87, Length 110.21, Radius 2,730.00, External 5.66, Long Chord 109.46, Mid.Ord. 5.54, P.C. Station 11+89.49, P.T. Station 12+99.70, C.C. 6,971,743.57 E 11,752,152.37, Back N 50°30'55.66" E, Ahead N 27°23'05.77" E, Chord Bear N 38°57'00.71" E

Course from PT C10 to PC C11 N 27°23'05.77" E Dist 171.18

Curve Data table for Curve C11: P.I. Station 15+26.74, Delta 23°07'49.90" (RT), Degree 20°59'14.87", Tangent 55.87, Length 110.21, Radius 2,730.00, External 5.66, Long Chord 109.46, Mid.Ord. 5.54, P.C. Station 14+70.88, P.T. Station 15+81.09, C.C. 6,971,980.70 E 11,752,299.92, Back N 27°23'05.77" E, Ahead N 50°30'55.66" E, Chord Bear N 38°57'00.72" E

Course from PT C11 to PC C12 N 50°30'55.66" E Dist 51.55

Curve Data table for Curve C12: P.I. Station 16+90.57, Delta 6°37'49.90" (LT), Degree 5°43'46.48", Tangent 452.01, Length 902.32, Radius 6,000.00, External 17.00, Long Chord 901.47, Mid.Ord. 16.99, P.C. Station 16+32.64, P.T. Station 17+48.37, C.C. 6,972,098.61 E 11,752,408.52, Back N 50°30'55.66" E, Ahead N 43°53'05.77" E, Chord Bear N 47°12'00.71" E

Course from PT C12 to PC C13 N 43°53'05.77" E Dist 214.40

Curve Data table for Curve C13: P.I. Station 20+20.69, Delta 6°37'49.90" (LT), Degree 5°43'46.48", Tangent 452.01, Length 902.32, Radius 6,000.00, External 17.00, Long Chord 901.47, Mid.Ord. 16.99, P.C. Station 19+62.77, P.T. Station 20+78.49, C.C. 6,972,331.72 E 11,752,642.01, Back N 43°53'05.77" E, Ahead N 60°23'05.77" E, Chord Bear N 40°34'10.82" E

Course from PT C13 to PC C14 N 37°15'15.87" E Dist 51.55

Curve Data table for Curve C14: P.I. Station 21+85.91, Delta 23°07'49.90" (RT), Degree 20°59'14.87", Tangent 55.87, Length 110.21, Radius 2,730.00, External 5.66, Long Chord 109.46, Mid.Ord. 5.54, P.C. Station 21+30.05, P.T. Station 22+40.26, C.C. 6,972,460.61 E 11,752,748.44, Back N 37°15'15.87" E, Ahead N 60°23'05.77" E, Chord Bear N 48°49'10.82" E

Course from PT C14 to PC C15 N 60°23'05.77" E Dist 171.18

Curve Data table for Curve C15: P.I. Station 24+67.30, Delta 23°07'49.90" (LT), Degree 20°59'14.87", Tangent 55.87, Length 110.21, Radius 2,730.00, External 5.66, Long Chord 109.46, Mid.Ord. 5.54, P.C. Station 24+11.43, P.T. Station 25+21.65, C.C. 6,972,617.28 E 11,752,979.64, Back N 60°23'05.77" E, Ahead N 37°15'15.87" E, Chord Bear N 48°49'10.82" E

Course from PT C15 to PC C16 N 37°15'15.87" E Dist 52.28

NOVA DISTRICT DESIGN UNIT LANE GDA Rinker Design Associates, P.C. Office Locations: Virginia, North Carolina, South Carolina, Florida, Georgia, Alabama, Mississippi, Louisiana, Texas, Oklahoma, Kansas, Nebraska, Minnesota, Iowa, Missouri, Arkansas, Louisiana, Mississippi, Alabama, Georgia, Florida, South Carolina, North Carolina, Virginia

PROJECT MANAGER PWC DOT-Mary Ankers (703)792-4228
SURVEYED BY, DATE Rinker Design Associates, P.C. (703) 369-7373, April 2020
DESIGN BY Rinker Design Associates, Mark Gunn, P.E. (703) 368-7373
SUBSURFACE UTILITY BY, DATE Accurmark (703) 635-3060, May 2020

Horizontal Alignment Data

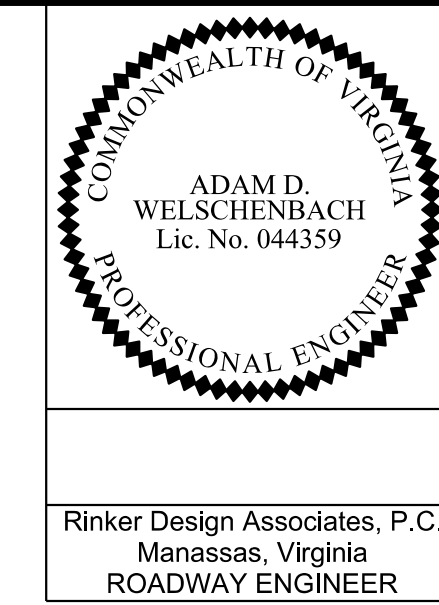


Table with columns: REVISED, STATE, ROUTE, PROJECT, SHEET NO. Values: NDC04, VA, 62I, 6234-076-266, 1G(1C)

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

Revised data for extended project limits/realignment.

Curve Data table for Curve C61, including P.I. Station, Delta, Degree, Tangent, Length, Radius, External, Long Chord, Mid. Ord., P.C. Station, P.T. Station, C.C., Back, Ahead, Chord Bear.

Course from PT C61 to OLDBALLSFORDIO S 76°06'52.34"W Dist 338.49
Point OLDBALLSFORDIO N 6,973,623.06 E 11,752,409.31 Sta 224+35.89

Ending chain OLDBALLSFORD description

ENTRANCE STATION 204+14.89 RT (BRADY LN BL)

From Sta.5+00.00 to Sta.6+50.92

Chain ENT204+14 contains: D040 CUR C66 D041

Beginning chain ENT204+14 description

Point D040 N 6,973,471.65 E 11,754,351.34 Sta 5+00.00
Course from D040 to PC C66 N 5°12'35.42"W Dist 18.57

Curve Data table for Curve C66, including P.I. Station, Delta, Degree, Tangent, Length, Radius, External, Long Chord, Mid. Ord., P.C. Station, P.T. Station, C.C., Back, Ahead, Chord Bear.

Course from PT C66 to D041 N 0°12'41.54"E Dist 99.23
Point D041 N 6,973,622.45 E 11,754,348.58 Sta 6+50.92

Ending chain ENT204+14 description

JENNELL DRIVE

From Sta.10+00.00 to Sta.13+42.85

Chain JENNELL_DR contains: D138 D139

Beginning chain JENNELL_DR description

Point D138 N 6,967,314.79 E 11,749,035.59 Sta 10+00.00
Course from D138 to D139 S 64°53'26.93"E Dist 342.85

Point D139 N 6,967,169.31 E 11,749,346.04 Sta 13+42.85
Ending chain JENNELL_DR description

ENTRANCE STATION 102+80.26 LT (BALLS FORD RD BL)

From Sta.10+00.00 to Sta.12+17.60

Chain ENT_102+80_LT contains: D130 CUR C183 D131

Beginning chain ENT_102+80_LT description

Point D130 N 6,967,414.25 E 11,749,079.03 Sta 10+00.00
Course from D130 to PC C183 N 67°03'34.32"W Dist 124.78

Curve Data table for Curve C183, including P.I. Station, Delta, Degree, Tangent, Length, Radius, External, Long Chord, Mid. Ord., P.C. Station, P.T. Station, C.C., Back, Ahead, Chord Bear.

Course from PT C183 to D131 N 74°23'46.09"W Dist 80.02
Point D131 N 6,967,488.63 E 11,748,874.98 Sta 12+17.60

Ending chain ENT_102+80_LT description

ENTRANCE STATION 103+65.57 RT (BALLS FORD RD BL)

From Sta.10+00.00 to Sta.11+28.68

Chain ENT_103+65_RT contains: D132 D133

Beginning chain ENT_103+65_RT description

Point D132 N 6,967,492.97 E 11,749,111.92 Sta 10+00.00
Course from D132 to D133 S 67°44'10.29"E Dist 128.68

Point D133 N 6,967,444.22 E 11,749,231.01 Sta 11+28.68
Ending chain ENT_103+65_RT description

ENTRANCE STATION 104+08.92 LT (BALLS FORD RD BL)

From Sta.10+00.00 to Sta.11+28.68

Chain ENT_104+09_LT contains: D128 D129

Beginning chain ENT_104+09_LT description

Point D128 N 6,967,533.15 E 11,749,281.9 Sta 10+00.00
Course from D128 to D129 N 72°11'15.79"W Dist 169.08

Point D129 N 6,967,584.87 E 11,748,967.22 Sta 11+69.08
Ending chain ENT_104+09_LT description

ENTRANCE STATION 104+16.74 RT (BALLS FORD RD BL)

From Sta.10+00.00 to Sta.11+30.70

Chain ENT_104+17_RT contains: D134 D135

Beginning chain ENT_104+17_RT description

Point D134 N 6,967,540.41 E 11,749,131.10 Sta 10+00.00
Course from D134 to D135 S 68°12'30.77"E Dist 130.70

Point D135 N 6,967,491.89 E 11,749,252.46 Sta 11+30.70
Ending chain ENT_104+17_RT description

ENTRANCE STATION 105+63.11 RT (BALLS FORD RD BL)

From Sta.10+00.00 to Sta.11+46.71

Chain ENT_105+63_RT contains: D136 D137

Beginning chain ENT_105+63_RT description

Point D136 N 6,967,676.85 E 11,749,184.08 Sta 10+00.00
Course from D136 to D137 S 77°32'11.82"E Dist 146.71

Point D137 N 6,967,645.19 E 11,749,327.33 Sta 11+46.71
Ending chain ENT_105+63_RT description

ENTRANCE STATION 105+88.72 LT (BALLS FORD RD BL)

From Sta.10+00.00 to Sta.11+54.04

Chain ENT_105+88_LT contains: D126 D127

Beginning chain ENT_105+88_LT description

Point D126 N 6,967,700.76 E 11,749,193.27 Sta 10+00.00
Course from D126 to D127 N 68°19'45.63"W Dist 154.04

Point D127 N 6,967,757.64 E 11,749,050.11 Sta 11+54.04
Ending chain ENT_105+88_LT description

ENTRANCE STATION 107+18.67 LT (BALLS FORD RD BL)

From Sta.10+00.00 to Sta.11+61.92

Chain ENT_107+18_LT contains: D124 D125

Beginning chain ENT_107+18_LT description

Point D124 N 6,967,822.05 E 11,749,239.90 Sta 10+00.00
Course from D124 to D125 N 68°39'45.30"W Dist 161.92

Point D125 N 6,967,880.97 E 11,749,089.08 Sta 11+61.92
Ending chain ENT_107+18_LT description

ENTRANCE STATION 107+86.72 LT (BALLS FORD RD BL)

From Sta.10+00.00 to Sta.11+49.91

Chain ENT_107+87_LT contains: D122 CUR C167 D123

Beginning chain ENT_107+87_LT description

Point D122 N 6,967,885.10 E 11,749,265.52 Sta 10+00.00
Course from D122 to PC C167 N 68°24'18.62"W Dist 17.89

Curve Data table for Curve C167, including P.I. Station, Delta, Degree, Tangent, Length, Radius, External, Long Chord, Mid. Ord., P.C. Station, P.T. Station, C.C., Back, Ahead, Chord Bear.

Course from PT C167 to D123 N 54°33'45.02"W Dist 107.86
Point D123 N 6,967,965.73 E 11,749,139.83 Sta 11+49.91

Ending chain ENT_107+87_LT description

ENTRANCE STATION 110+00.00 RT (BALLS FORD RD BL)

From Sta.10+00.00 to Sta.13+67.77

Chain ENTR_110+00RT contains: 100 101

Beginning chain ENTR_110+00RT description

Point 100 N 6,968,079.30 E 11,749,353.66 Sta 10+00.00
Course from 100 to 101 S 65°13'03.29"E Dist 367.77

Point 101 N 6,967,925.13 E 11,749,687.57 Sta 13+67.77
Ending chain ENTR_110+00RT description

ENTRANCE STATION 602+75.00 LT (HANSEN FARM RD BL)

From Sta.10+00.00 to Sta.11+08.43

Chain ENTR_602+75LT contains: 102 103

Beginning chain ENTR_602+75LT description

Point 102 N 6,968,276.04 E 11,749,179.79 Sta 10+00.00
Course from 102 to 103 S 79°25'18.42"W Dist 108.43

Point 103 N 6,968,256.13 E 11,749,073.20 Sta 11+08.43
Ending chain ENTR_602+75LT description

ENTRANCE STATION 605+29.66 LT (HANSEN FARM RD BL)

From Sta.10+00.00 to Sta.11+50.00

Chain ENTR_605+29LT contains: D100 D101

Beginning chain ENTR_605+29LT description

Point D100 N 6,968,529.23 E 11,749,152.64 Sta 10+00.00
Course from D100 to D101 S 84°03'54.87"W Dist 150.00

Point D101 N 6,968,513.72 E 11,749,003.44 Sta 11+50.00
Ending chain ENTR_605+29LT description

ENTRANCE STATION 605+38.46 RT (HANSEN FARM RD BL)

From Sta.10+00.00 to Sta.11+02.24

Chain ENTR_605+38RT contains: D058 D059

Beginning chain ENTR_605+38RT description

Point D058 N 6,968,537.98 E 11,749,151.73 Sta 10+00.00
Course from D058 to D059 N 84°03'54.87"E Dist 102.24

Point D059 N 6,968,548.55 E 11,749,253.42 Sta 11+02.24
Ending chain ENTR_605+38RT description

Vertical text on the left margin: Office Locations, Design Associates, P.C., LANE, NOVA DISTRICT DESIGN UNIT, 7/1/2021

PROJECT MANAGER PWC DOT: Mary Ankers (703) 792-4228
SURVEYED BY, DATE Rinker Design Associates, P.C. (703) 369-7373, April 2020
DESIGN BY Rinker Design Associates, Mark Gunn, P.E. (703) 368-7373
SUBSURFACE UTILITY BY, DATE AccuMark (703) 635-3060, May 2020

Horizontal Alignment Data

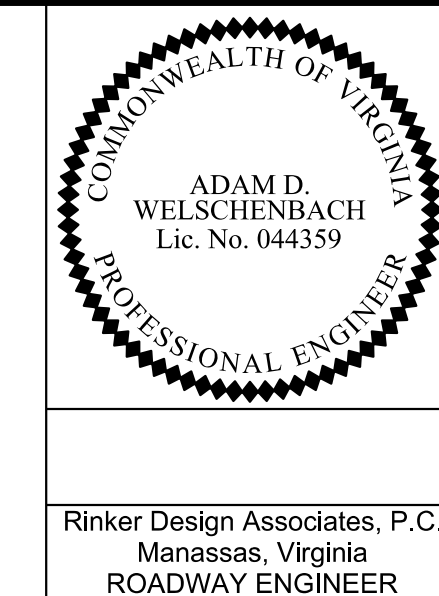


Table with columns: REVISED (NDC04), STATE (VA), ROUTE (62I), PROJECT (6234-076-266, C-501, RW-201), SHEET NO. (IG1D)

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

04 Revised data for extended project limits/realignment.

ENTRANCE STATION 113+04.90 RT (BALLS FORD RD BL)

From Sta.10+00.00 to Sta.11+94.64
Chain ENTR_113+04RT contains: D070 CUR C67 D071
Beginning chain ENTR_113+04RT description
Point D070 N 6,968,356.12 E 11,749,481.47 Sta 10+00.00
Course from D070 to PC C67 S 65°13'03.29"E Dist 71.70
Curve Data
Curve C67
P.I. Station 11+07.18 N 6,968,311.9 E 11,749,578.78
Delta 61°11'43.74" (RT)
Degree 95°29'34.68"
Tangent 35.48
Length 64.08
Radius 60.00
External 9.71
Long Chord 61.08
Mid.Ord. 8.35
P.C. Station 10+71.70 N 6,968,326.06 E 11,749,546.57
P.T. Station 11+35.79 N 6,968,275.80 E 11,749,581.27
C.C. N 6,968,271.59 E 11,749,521.42
Back S 65°13'03.29"E
Ahead S 4°01'19.56"E
Chord Bear S 34°37'11.42"E
Course from PT C67 to D071 S 4°01'19.55"E Dist 58.86
Point D071 N 6,968,217.09 E 11,749,585.40 Sta 11+94.64
Ending chain ENTR_113+04RT description

ENTRANCE STATION 509+98.64 LT (WELLINGTON RD BL)

From Sta.10+00.00 to Sta.12+58.14
Chain ENTR_509+98LT contains: D089 D090
Beginning chain ENTR_509+98LT description
Point D089 N 6,969,527.70 E 11,749,670.21 Sta 10+00.00
Course from D089 to D090 N 13°47'22.43"E Dist 258.14
Point D090 N 6,969,778.40 E 11,749,731.73 Sta 12+58.14
Ending chain ENTR_509+98LT description

ENTRANCE STATION 510+48.28 RT (WELLINGTON RD BL)

From Sta.10+00.00 to Sta.11+50.20
Chain ENTR_510+48RT contains: D091 CUR C39 D092
Beginning chain ENTR_510+48RT description
Point D091 N 6,969,513.63 E 11,749,717.81 Sta 10+00.00
Course from D091 to PC C39 S 19°23'56.15"W Dist 31.83
Curve Data
Curve C39
P.I. Station 10+61.85 N 6,969,455.30 E 11,749,697.27
Delta 33°25'12.66" (RT)
Degree 57°17'44.81"
Tangent 30.02
Length 58.53
Radius 100.00
External 4.41
Long Chord 57.51
Mid.Ord. 4.25
P.C. Station 10+31.83 N 6,969,483.61 E 11,749,707.24
P.T. Station 10+90.16 N 6,969,437.15 E 11,749,673.35
C.C. N 6,969,516.83 E 11,749,612.92
Back S 19°23'56.15"W
Ahead S 52°49'08.81"W
Chord Bear S 36°06'32.48"W
Course from PT C39 to D092 S 52°49'08.81"W Dist 60.04
Point D092 N 6,969,400.87 E 11,749,625.51 Sta 11+50.20
Ending chain ENTR_510+48RT description

ENTRANCE STATION 511+91.4 LT (WELLINGTON RD BL)

From Sta.10+00.00 to Sta.11+53.82
Chain ENTR_511+91LT contains: D087 D088
Beginning chain ENTR_511+91LT description
Point D087 N 6,969,468.69 E 11,749,853.40 Sta 10+00.00
Course from D087 to D088 N 19°02'41.2"E Dist 153.82
Point D088 N 6,969,614.09 E 11,749,903.60 Sta 11+53.82
Ending chain ENTR_511+91LT description

ENTRANCE STATION 134+00.00 LT (BALLS FORD RD BL)

From Sta.10+00.00 to Sta.11+71.78
Chain ENTR_134+00LT contains: D066 D067
Beginning chain ENTR_134+00LT description
Point D066 N 6,970,152.11 E 11,750,508.11 Sta 10+00.00
Course from D066 to D067 N 38°51'11.83"W Dist 171.78
Point D067 N 6,970,285.88 E 11,750,400.34 Sta 11+71.78
Ending chain ENTR_134+00LT description

ENTRANCE STATION 134+00.00 RT (BALLS FORD RD BL)

From Sta.10+00.00 to Sta.11+81.95
Chain ENTR_134+00RT contains: D068 D069
Beginning chain ENTR_134+00RT description
Point D068 N 6,970,152.11 E 11,750,508.11 Sta 10+00.00
Course from D068 to D069 S 38°51'11.83"E Dist 181.95
Point D069 N 6,970,010.41 E 11,750,622.25 Sta 11+81.95
Ending chain ENTR_134+00RT description

ENTRANCE STATION 403+88.59 LT (WELLINGTON RD BL)

From Sta.10+00.00 to Sta.11+48.96
Chain ENTR_403+88LT contains: D060 D061
Beginning chain ENTR_403+88LT description
Point D060 N 6,970,811.05 E 11,751,036.48 Sta 10+00.00
Course from D060 to D061 N 42°01'57.77"E Dist 148.96
Point D061 N 6,970,921.69 E 11,751,136.22 Sta 11+48.96
Ending chain ENTR_403+88LT description

ENTRANCE STATION 142+04.73 RT (RAMP 1 BL)

From Sta.10+00.00 to Sta.12+07.39
Chain ENTR_142+04RT contains: D093 CUR C43 CUR C44 D094
Beginning chain ENTR_142+04RT description
Point D093 N 6,972,755.07 E 11,752,910.72 Sta 10+00.00
Course from D093 to PC C43 N 0°03'17.78"W Dist 5.64
Curve Data
Curve C43
P.I. Station 10+25.20 N 6,972,780.26 E 11,752,910.70
Delta 4°28'45.94" (LT)
Degree 11°27'32.96"
Tangent 19.56
Length 39.09
Radius 500.00
External 0.38
Long Chord 39.08
Mid.Ord. 0.38
P.C. Station 10+05.64 N 6,972,760.71 E 11,752,910.72
P.T. Station 10+44.73 N 6,972,799.76 E 11,752,909.15
C.C. N 6,972,760.23 E 11,752,410.72
Back N 0°03'17.78"W
Ahead N 4°32'03.73"W
Chord Bear N 2°17'40.75"W
Course from PT C43 to PC C44 N 4°32'03.73"W Dist 25.41
Curve Data
Curve C44
P.I. Station 11+19.57 N 6,972,874.36 E 11,752,903.24
Delta 53°14'46.51" (LT)
Degree 58°06'38.95"
Tangent 49.42
Length 91.63
Radius 98.60
External 11.69
Long Chord 88.37
Mid.Ord. 10.45
P.C. Station 10+70.14 N 6,972,825.09 E 11,752,907.14
P.T. Station 11+61.77 N 6,972,900.71 E 11,752,861.42
C.C. N 6,972,817.29 E 11,752,808.85
Back N 4°32'03.73"W
Ahead N 57°46'50.23"W
Chord Bear N 31°09'26.98"W
Course from PT C44 to D094 N 57°46'50.23"W Dist 45.62
Point D094 N 6,972,925.03 E 11,752,822.82 Sta 12+07.39
Ending chain ENTR_142+04RT description

ENTRANCE STATION 173+23.65 RT (BALLS FORD RD BL)

From Sta.10+00.00 to Sta.11+25.00
Chain ENTR_173+23RT contains: D062 D063
Beginning chain ENTR_173+23RT description
Point D062 N 6,972,944.41 E 11,753,262.10 Sta 10+00.00
Course from D062 to D063 S 43°24'29.90"E Dist 125.00
Point D063 N 6,972,853.60 E 11,753,348.00 Sta 11+25.00
Ending chain ENTR_173+23RT description

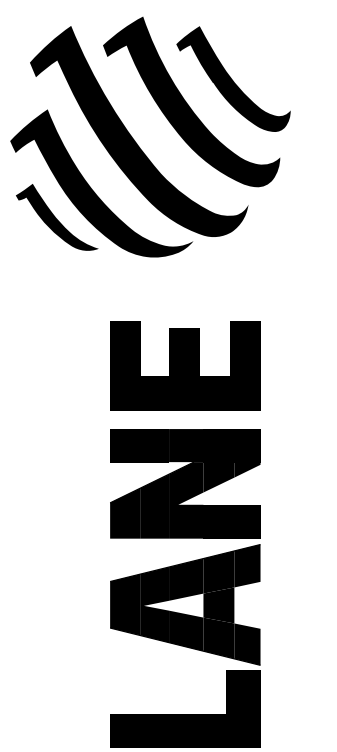
ENTRANCE STATION 318+05.41 RT (RAMP 3A BL)

From Sta.10+00.00 to Sta.11+22.27
Chain ENTR_318+05RT contains: 94 CUR C31 95
Beginning chain ENTR_318+05RT description
Point 94 N 6,971,030.44 E 11,753,617.03 Sta 10+00.00
Course from 94 to PC C31 S 58°55'49.59"W Dist 52.88
Curve Data
Curve C31
P.I. Station 10+59.92 N 6,970,999.51 E 11,753,565.70
Delta 8°03'48.01" (LT)
Degree 57°17'44.81"
Tangent 7.05
Length 14.07
Radius 100.00
External 0.25
Long Chord 14.06
Mid.Ord. 0.25
P.C. Station 10+52.88 N 6,971,003.15 E 11,753,571.74
P.T. Station 10+66.95 N 6,970,995.07 E 11,753,560.23
C.C. N 6,970,917.50 E 11,753,623.35
Back S 58°55'49.59"W
Ahead S 50°52'01.58"W
Chord Bear S 54°53'55.58"W
Course from PT C31 to 95 S 50°52'01.58"W Dist 55.32
Point 95 N 6,970,960.15 E 11,753,517.33 Sta 11+22.27
Ending chain ENTR_318+05RT description

BALLS FORD ROAD CONSTRUCTION

From Sta.100+00.00 to Sta.108+70.03
Chain TRANSITION contains: D150 CUR C169 CUR C170
Beginning chain TRANSITION description
Point D150 N 6,967,150.64 E 11,748,984.70 Sta 100+00.00
Course from D150 to PC C169 N 24°14'51.00"E Dist 156.49
Curve Data
Curve C169
P.I. Station 102+04.36 N 6,967,336.97 E 11,749,068.63
Delta 102°04.36" (LT)
Degree 5°12'31.35"
Tangent 47.87
Length 95.67
Radius 1,000.00
External 1.04
Long Chord 95.64
Mid.Ord. 1.04
P.C. Station 101+56.49 N 6,967,293.32 E 11,749,048.97
P.T. Station 102+52.16 N 6,967,382.15 E 11,749,084.42
C.C. N 6,967,745.07 E 11,748,046.01
Back N 24°14'51.00"E
Ahead N 19°15'51.02"E
Chord Bear N 21°45'21.01"E
Course from PT C169 to PC C170 N 19°15'51.02"E Dist 375.54
Curve Data
Curve C170
P.I. Station 107+48.96 N 6,967,851.14 E 11,749,248.32
Delta 107°48.96" (RT)
Degree 5°31'05.69" (RT)
Tangent 21°16'38.12"
Length 121.25
Radius 242.32
External 2,516.00
Long Chord 242.23
Mid.Ord. 2.92
P.C. Station 106+27.71 N 6,967,736.67 E 11,749,208.32
P.T. Station 108+70.03 N 6,967,961.22 E 11,749,299.15
C.C. N 6,966,906.58 E 11,751,583.44
Back N 19°15'51.02"E
Ahead N 24°46'56.71"E
Chord Bear N 22°01'23.86"E
Ending chain TRANSITION description

Design Associates, P.C. Rinker LANE NOVA DISTRICT DESIGN UNIT



PROJECT MANAGER PWC DOT: Mary Ankers (703) 792-4228
SURVEYED BY, DATE Rinker Design Associates, P.C. (703) 369-7373, April 2020
DESIGN BY Rinker Design Associates, Mark Gunn, P.E. (703) 368-7373
SUBSURFACE UTILITY BY, DATE Accurmark (703) 635-3060, May 2020

Proposed Baselines

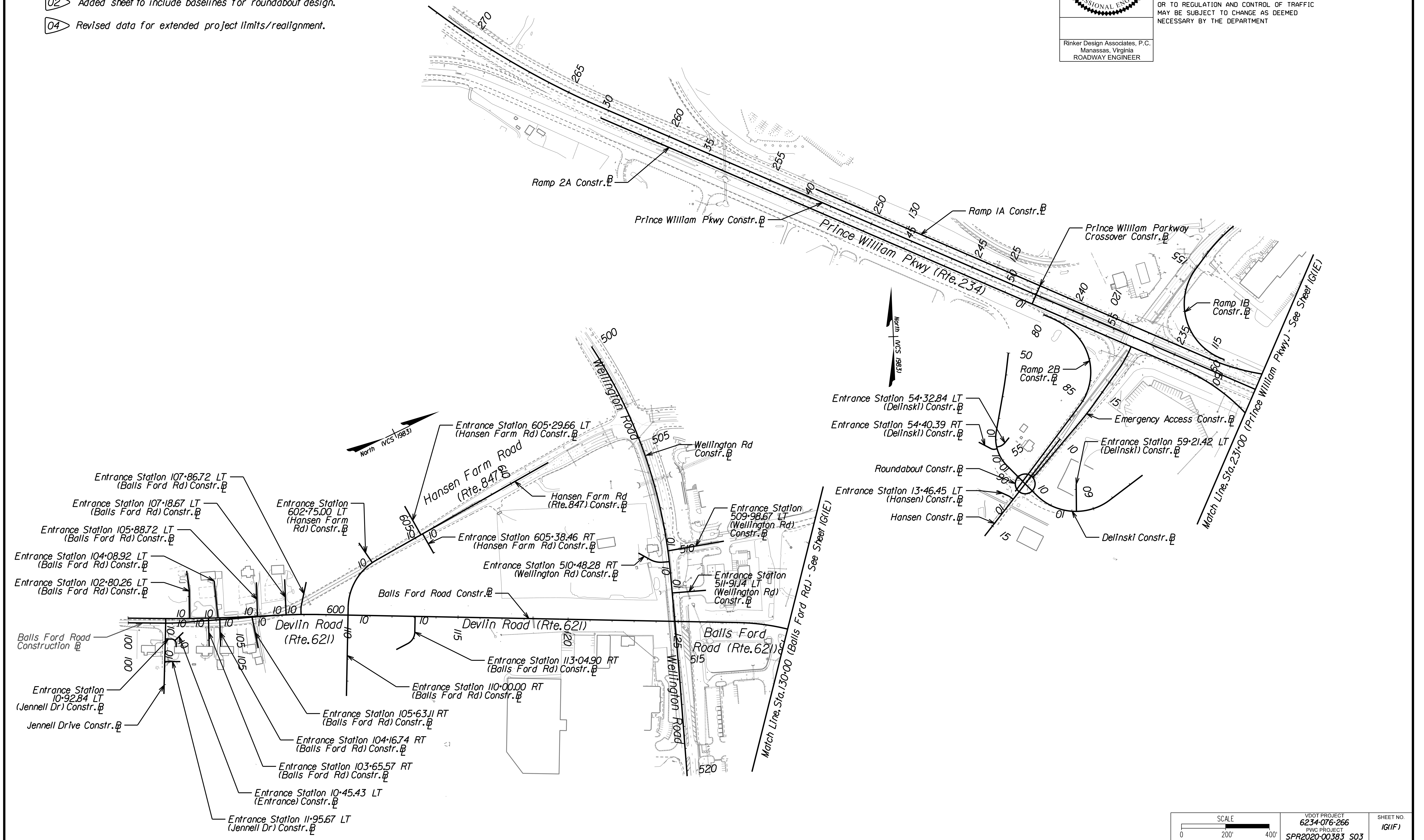
COMMONWEALTH OF VIRGINIA
ADAM D. WELSCHENBACH
Lic. No. 044359
PROFESSIONAL ENGINEER

Rinker Design Associates, P.C.
Manassas, Virginia
ROADWAY ENGINEER

REVISED	STATE	ROUTE	STATE	PROJECT	SHEET NO.
NDC02 NDC04	VA.	621		6234-076-266, C-501, RW-201	1G(1F)

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

- 02 Added sheet to include baselines for roundabout design.
- 04 Revised data for extended project limits/realignment.

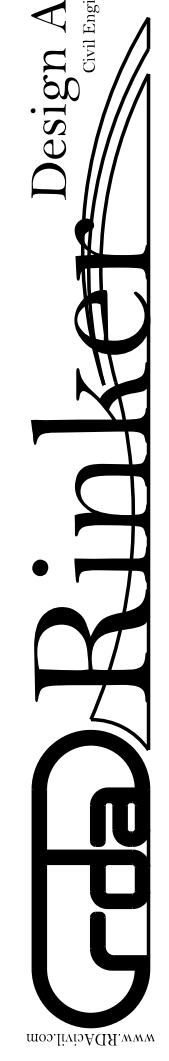


SCALE
0 200' 400'

VDOT PROJECT
6234-076-266
PNC PROJECT
SPR2020-00383 S03

SHEET NO.
1G(1F)

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



LANE

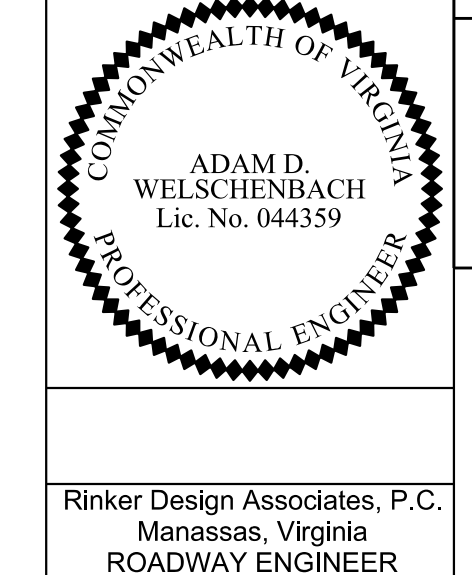
NOVA DISTRICT DESIGN UNIT

PROJECT MANAGER PWC DOT, Mary Ankers (703) 792-4228
 SURVEYED BY, DATE Rinker Design Associates, P.C. (703) 369-7373, April 2020
 DESIGN BY Rinker Design Associates, Mark Gunn, P.E. (703) 368-7373
 SUBSURFACE UTILITY BY, DATE Accurmark (703) 635-3060, May 2020

04 Revised data for extended project limits/realignment.

Geometric Data

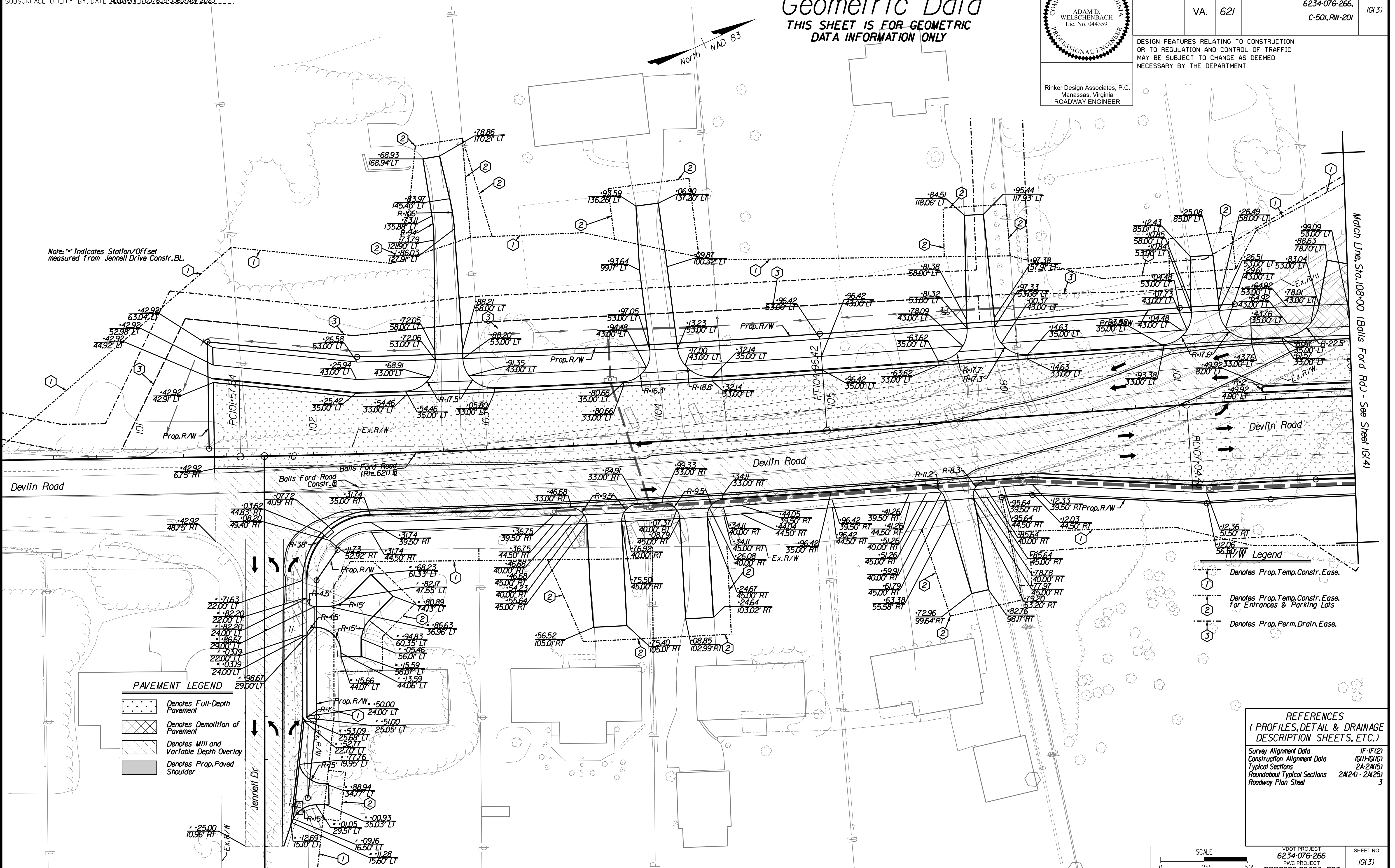
THIS SHEET IS FOR GEOMETRIC DATA INFORMATION ONLY



REVISED	STATE	ROUTE	PROJECT	SHEET NO.
NDC04	VA	62/	6234-076-266, C-501, RW-201	1G(3)

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

NOVA DISTRICT DESIGN UNIT
 Rinker Design Associates, P.C.
 7/1/2021



PAVEMENT LEGEND

[Dotted Pattern]	Denotes Full-Depth Pavement
[Cross-hatch Pattern]	Denotes Demolition of Pavement
[Diagonal Line Pattern]	Denotes Mill and Variable Depth Overlay
[Solid Gray Pattern]	Denotes Prop. Paved Shoulder

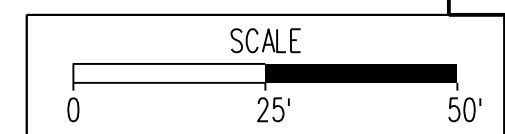
Prop. R/W Legend

①	Denotes Prop. Temp. Constr. Ease.
②	Denotes Prop. Temp. Constr. Ease for Entrances & Parking Lots
③	Denotes Prop. Perm. Drain. Ease.

REFERENCES

(PROFILES, DETAIL & DRAINAGE DESCRIPTION SHEETS, ETC.)

Survey Alignment Data	IF-1F(2)
Construction Alignment Data	1G11-1G12
Typical Sections	2A-2A(15)
Roundabout Typical Sections	2A(24) - 2A(25)
Roadway Plan Sheet	3



VDOT PROJECT 6234-076-266	SHEET NO. 1G(3)
PNC PROJECT SPR2020-00383 S03	

PROJECT MANAGER PWC DOT, Mary Ankers (703) 792-4228
 SURVEYED BY, DATE Rinker Design Associates, P.C. (703) 369-7373, April 2020
 DESIGN BY Rinker Design Associates, Mark Gunn, P.E. (703) 368-7373
 SUBSURFACE UTILITY BY, DATE Accurmark (703) 635-3060, May 2020

Geometric Data

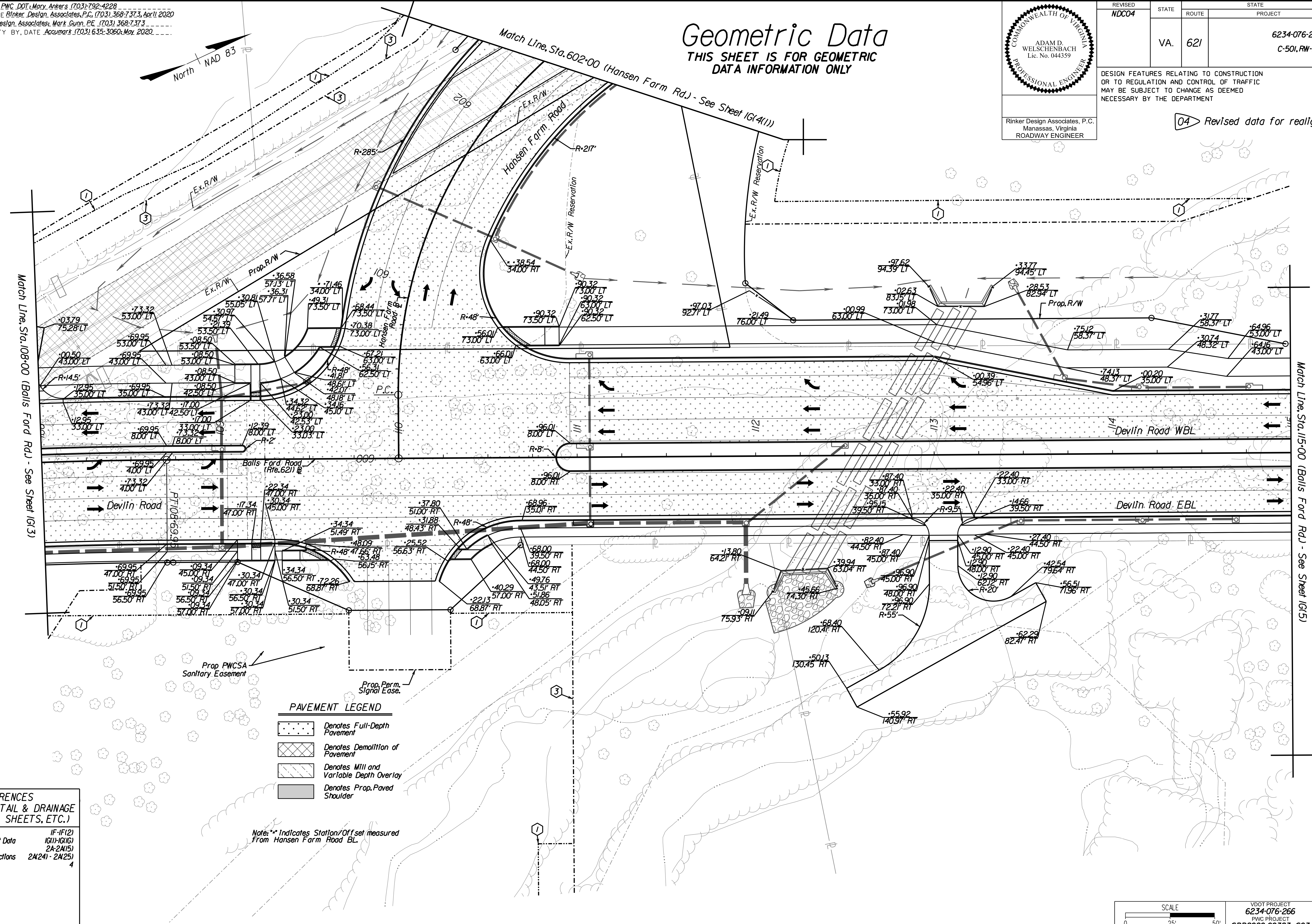
THIS SHEET IS FOR GEOMETRIC DATA INFORMATION ONLY

ADAM D. WELSCHENBACH
 Lic. No. 044359
 PROFESSIONAL ENGINEER

REVISED	STATE	ROUTE	STATE	PROJECT	SHEET NO.
NDC04	VA.	621		6234-076-266, C-501, RW-201	IG(4)

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

04 Revised data for realignment.



PAVEMENT LEGEND

	Denotes Full-Depth Pavement
	Denotes Demolition of Pavement
	Denotes Mill and Variable Depth Overlay
	Denotes Prop. Paved Shoulder

Note: ** Indicates Station/Offset measured from Hansen Farm Road BL.

REFERENCES
 (PROFILES, DETAIL & DRAINAGE DESCRIPTION SHEETS, ETC.)

Survey Alignment Data	IF-IF(2)
Construction Alignment Data	IG(1)-IG(16)
Typical Sections	2A-2A(15)
Roundabout Typical Sections	2A(24) - 2A(25)
Roadway Plan Sheet	4

SCALE 0 25' 50'

VDOT PROJECT 6234-076-266
 PNC PROJECT SPR2020-00383 S03

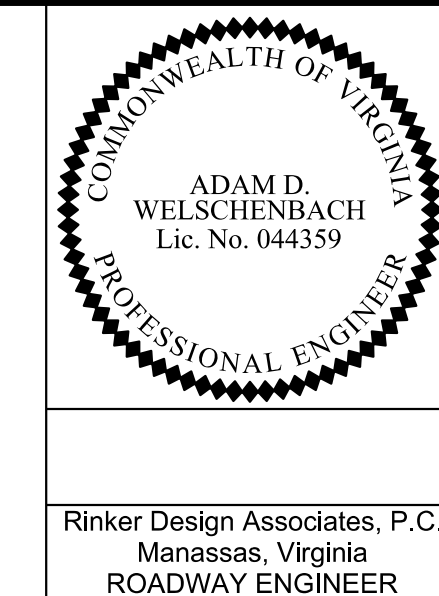
SHEET NO. IG(4)

Design Associates, P.C. Rinker
 NOVA DISTRICT DESIGN UNIT
 7/1/2021

PROJECT MANAGER PWC DOT, Mary Ankers (703) 792-4228
SURVEYED BY, DATE Rinker Design Associates, P.C. (703) 369-7373, April 2020
DESIGN BY Rinker Design Associates, Mark Gunn, P.E. (703) 368-7373
SUBSURFACE UTILITY BY, DATE Acumark (703) 635-3060, May 2020

Geometric Data

THIS SHEET IS FOR GEOMETRIC DATA INFORMATION ONLY

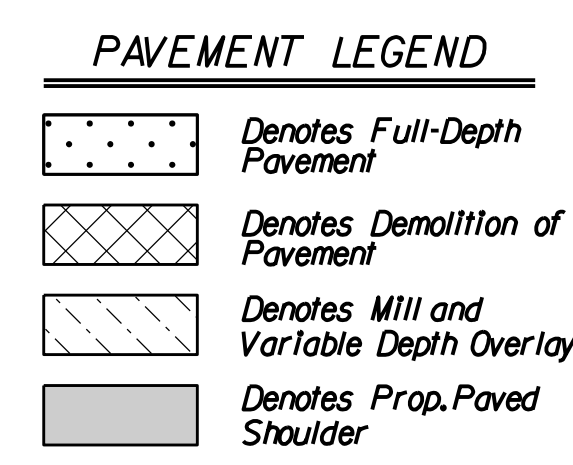
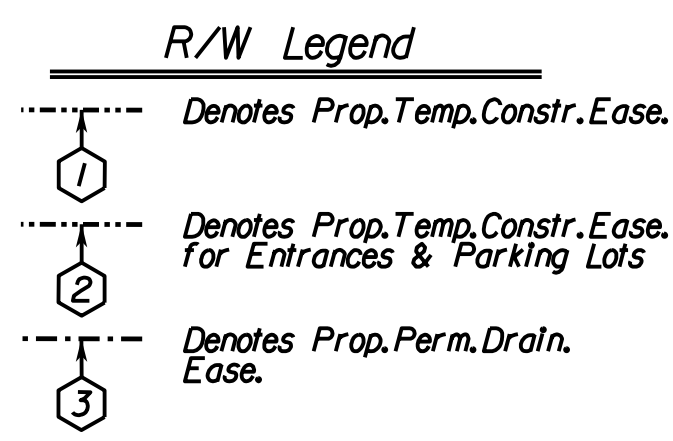
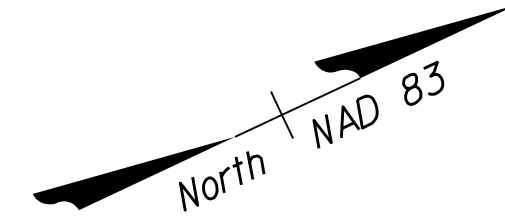


REVISED	STATE	ROUTE	STATE	PROJECT	SHEET NO.
NDC04	VA.	621		6234-076-266, C-501, RW-201	IG(4/11)

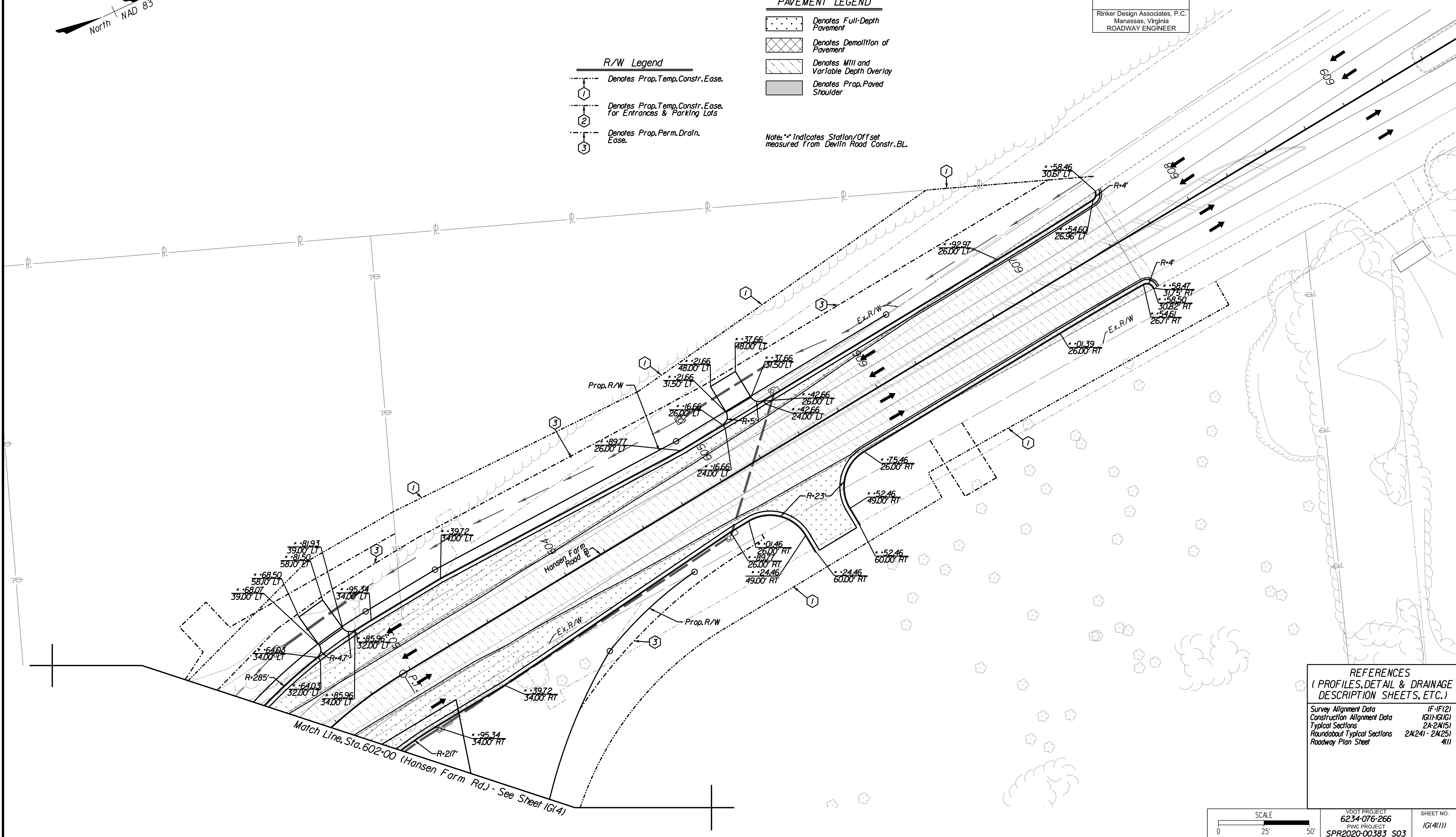
DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT

Rinker Design Associates, P.C.
Manassas, Virginia
ROADWAY ENGINEER

04 Revised data for realignment.



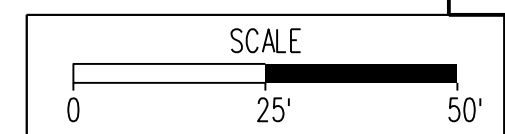
Note: ** Indicates Station/Offset measured from Devilin Road Constr. BL.



REFERENCES

(PROFILES, DETAIL & DRAINAGE DESCRIPTION SHEETS, ETC.)

Survey Alignment Data	IF-1F(2)
Construction Alignment Data	IG11-C(1G)
Typical Sections	2A-2A(15)
Roundabout Typical Sections	2A(24) - 2A(25)
Roadway Plan Sheet	411



VDOT PROJECT	6234-076-266	SHEET NO.	IG(4/11)
PINC PROJECT	SPR2020-00383 S03		

NOVA DISTRICT DESIGN UNIT

 Rinker Design Associates, P.C.
 Office Locations:

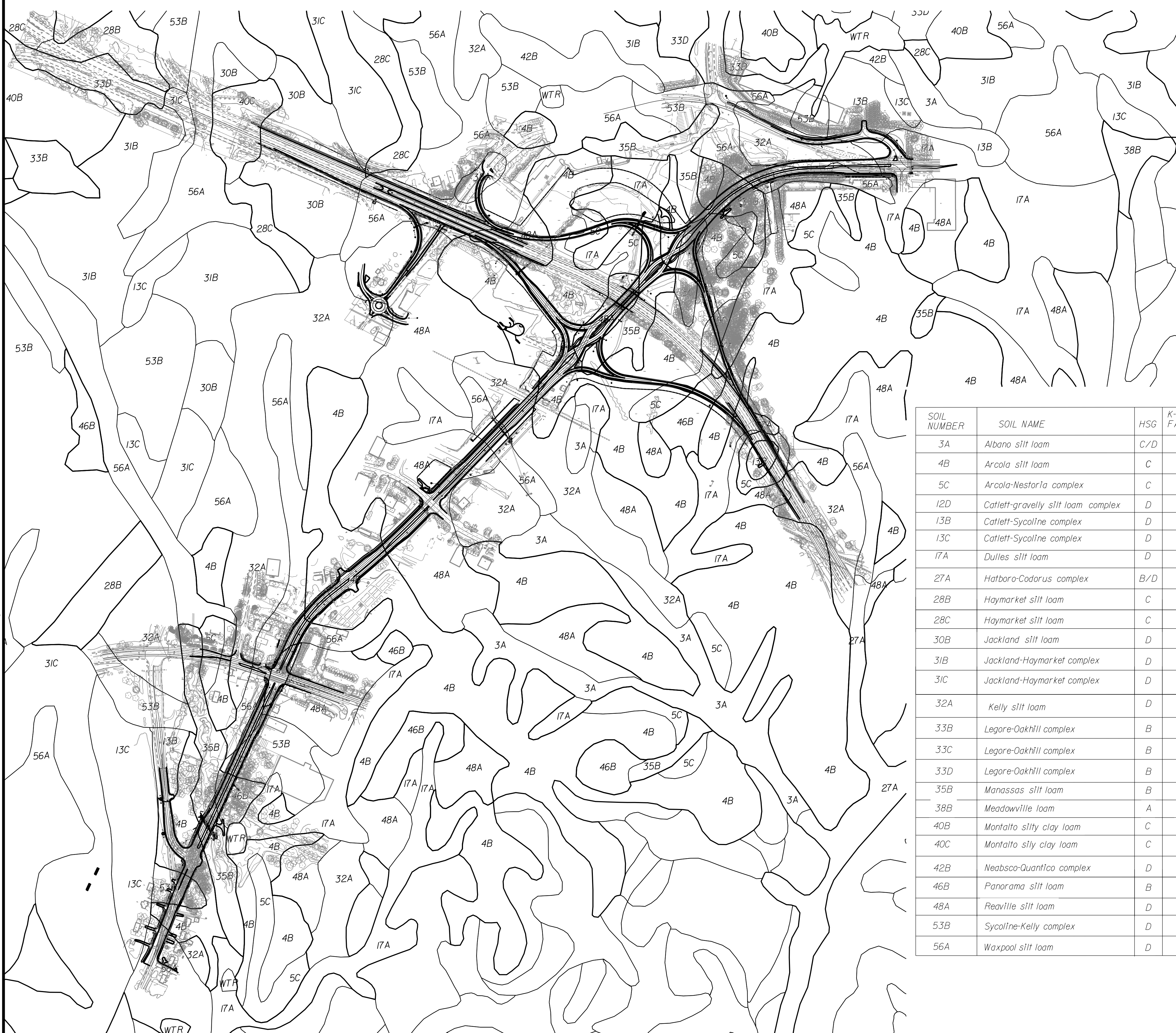
PROJECT MANAGER PWC DOT: Mary Anters (703) 792-4228
SURVEYED BY, DATE Rinker Design Associates, P.C. (703) 368-7373, April 2020
DESIGN BY Rinker Design Associates, Mark Gunn, PE. (703) 368-7373
SUBSURFACE UTILITY BY, DATE AccuMark (703) 635-3060, July 2019

Soils Map and Table

REVISED NDC02 NDC04	STATE VA.	ROUTE 621	STATE PROJECT 6234-076-266, C-501, RW-201	SHEET NO. IP
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DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT

- 02 Revised soil map to include roundabout plan view.
- 04 Revised to show extended project limits/realignment.



SOIL NUMBER	SOIL NAME	HSG	K-FACTOR	DRAINAGE CLASS	SLOPES	RUNOFF CLASS	DEPTH TO BEDROCK	FLOODING	SHRINK/SWELL	EROSION HAZARD
3A	Albano silt loam	C/D	.49	Poorly drained	0-4%	High	40-60"	None	Moderate	Slight
4B	Arcola silt loam	C	.43	Well drained	2-7%	High	20-40"	None	Low	Slight
5C	Arcola-Nestoria complex	C	.43	Well drained	7-15%	High/Very High	20-40"/10-20"	None	Low/Very Low	Moderate
12D	Catlett-gravelly silt loam complex	D	.24	Well drained	15-25%	Very High	10-20"	None	Low	Severe
13B	Catlett-Sycaline complex	D	.43	Moderately well drained	2-7%	Very High/High	10-20"/20-40"	None	Very Low/Low	Slight
13C	Catlett-Sycaline complex	D	.43	Moderately well drained	7-15%	Very High/High	10-20"/20-40"	None	Very Low/Low	Slight
17A	Dulles silt loam	D	.43	Somewhat poorly drained	0-2%	-	40-42"	None	Low	Slight
27A	Hatboro-Codorus complex	B/D	.43	Poorly drained	0-2%	Low	>80"	Frequent	Moderate	Slight
28B	Haymarket silt loam	C	.43	Well drained	2-7%	High	>80"	None	Moderate	Moderate
28C	Haymarket silt loam	C	.43	Well drained	7-15%	High	>80"	None	Moderate	Severe
30B	Jackland silt loam	D	.49	Moderately well drained	2-7%	Very High	>80"	None	Moderate	Slight
31B	Jackland-Haymarket complex	D	.49	Moderately well drained	2-7%	Very High	>80"	None	High	Moderate
31C	Jackland-Haymarket complex	D	.49	Moderately well drained	7-15%	Very High	>80"	None	Moderate	Moderate
32A	Kelly silt loam	D	.49	Moderately well drained	0-2%	High	40-60"	None	Moderate	Slight
33B	Legore-Oakhill complex	B	.32	Well drained	2-7%	Medium	>80"	None	Low	Moderate
33C	Legore-Oakhill complex	B	.32	Well drained	7-15%	Medium	>80"	None	Low	Severe
33D	Legore-Oakhill complex	B	.32	Well drained	15-25%	High	>80"	None	Low	Severe
35B	Manassas silt loam	B	.37	Moderately well drained	2-7%	Low	40-60"	Rare	Moderate	Slight
38B	Meadowville loam	A	.28	Well drained	0-5%	Very Low	>80"	None	Low	Moderate
40B	Montalto silty clay loam	C	.43	Well drained	2-7%	High	60-120"	None	Moderate	Moderate
40C	Montalto silty clay loam	C	.43	Well drained	7-15%	High	60-120"	None	Moderate	Severe
42B	Neabsco-Quantico complex	D	.43	Moderately well drained	2-7%	Very High	14-30"	None	Low	Moderate
46B	Panorama silt loam	B	.43	Well drained	2-7%	Medium	40-60"	None	Low	Moderate
48A	Reaville silt loam	D	.43	Somewhat poorly drained	0-4%	High	20-40"	None	Low	Slight
53B	Sycaline-Kelly complex	D	.49	Moderately well drained	2-7%	Very High	20-40"	None	Low	Moderate
56A	Waxpool silt loam	D	.49	Poorly drained	0-2%	Very High	>80"	None	Moderate	Slight

NOVA DISTRICT DESIGN UNIT
LANE
 Rinker
 Design Associates, P.C.
 Office Locations: Fairfax, VA; Herndon, VA; Reston, VA; Springfield, VA; Tyngsboro, VA; Warrenton, OR; Washington, DC; York, PA
 Services: Civil Engineering, Surveying, Land Planning, Transportation, Right-of-Way Services

PROJECT MANAGER **PWC_DOT-Mary Ankers (703) 792-4228**
SURVEYED BY, DATE **Rinker Design Associates, P.C. (703) 369-7373, April 2020**
DESIGN BY **Rinker Design Associates, Mark Gunn, P.E. (703) 368-7373**
SUBSURFACE UTILITY BY, DATE **Accurmark (703) 635-3060, May 2020**

STORMWATER POLLUTION PREVENTION PLAN (SWPPP) GENERAL INFORMATION SHEET FOR INFORMATION ONLY

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, 2019 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 activities that disturb an area equal to or greater than 10,000 square feet outside the Chesapeake Bay Preservation Area, 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 (as defined in the latest IIM 242) 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.

I certify under penalty of law that I have read and understand this document and that this document and all attachments were prepared in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

I further certify that this document and all other documents related to the SWPPP, as identified on the SWPPP General Information Sheets, are maintained at the activity site, or at a location convenient to the activity site where no on-site facilities are available, and such documents will be made available for review upon request in accordance with the provisions of the General VPDES Permit for Discharges of Stormwater from Construction Activities (VAR10) when applicable. Where the SWPPP documents are not stored on-site, a copy of such documents shall be in the possession of those with day to day operational control over the implementation of the SWPPP whenever they are on site.

* or ** Delegated Authority Signature*

Signature: _____
Printed Name: _____
Date: _____

(1) See Section 1, Item 11 relating to delegation of authority, and form LD-445H (Delegation of Authority).

ACRONYMS

CBPA - Chesapeake Bay Preservation Act	SWPPP - Stormwater Pollution Prevention Plan
BMP - Best Management Practice	TMDL - Total Maximum Daily Load
DEQ - Department of Environmental Quality	VDOT - Virginia Department of Transportation
EPA - U.S. Environmental Protection Agency	VPDES - Virginia Pollutant Discharge Elimination System
ESC - Erosion and Sediment Control	VSMP - Virginia Stormwater Management Program
IIM - Instructional and Informational Memorandum	VESCP - Virginia Erosion and Sediment Control Program
R&B - Road and Bridge	WLA - Waste Load Allocation
RLD - Responsible Land Disturber	SWM - Stormwater Management

SECTION I GENERAL INFORMATION

1. Activity Description - The project is for the design and construction of a Diverging Diamond Interchange (DDI) at the Prince William Parkway (Rte. 234) and realigned Balls Ford Road (Rte. 621) in Prince William County. The Balls Ford Road realignment begins approximately 2,200 feet west of the existing Devlin Road / Wellington Road intersection and extends eastward approximately 8,400 feet, on new alignment, to the existing Balls Ford Road / Doane Drive intersection. The Balls Ford Road design corresponds with VDOT GS-6 (Urban Minor Arterial) Standards with a 45 miles per hour design speed.

2. This land disturbance (construction) activity site is located in Prince William County and approximately 117.46 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 & LD-445C forms) and the permit coverage letter received from DEQ shall be maintained with other SWPPP documents for this land disturbing 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. Written 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 VPDES Permit * or Letter from VSMP Authority stating coverage not needed)

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: (List the impaired surface waters, when applicable)
- Bull Run - impaired for recreational uses because of Escherichia coli.
- Broad Run - impaired for recreational uses because of Escherichia coli.
- Young's Branch - impaired for recreational uses because of Escherichia coli.

7. Identify the TMDL's 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, 2016 for sediment, total suspended solids, turbidity, nitrogen or phosphorus:
N/A

8. This land disturbance 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. (List name of surface waters and locations here if not shown in construction plan or other such documents).

10. The ESC and SWM plans (where applicable) for this land disturbance (construction) activity have been developed in accordance with VDOT's Approved Annual Erosion and Sediment Control and Stormwater Management Standards and Specifications as approved by the DEQ.

11. List the RLD and other responsible parties for the land disturbance activity: (required for erosion and sediment control). The following individual(s) have "delegated authority" to sign all reports required by the construction permit including the SWPPP General Information Sheets and Inspection Reports (C-107). Reference form LD-445H for delegation of authority (form 445H for the project is hereby incorporated by reference into this SWPPP). These individual(s) has/have overall responsibility or the environmental matters for the project: (required only for permitted projects):

Name	Position	Responsibility
	RLD	Certify the SWPPP (with date & sig.)
	Certified Inspector	Sign (C-107) Inspection Form Part 1
	Certified Inspector	Sign (C-107) Inspection Form Part 2

* 12. The name of the VDOT individual(s) responsible for the oversight inspection in accordance with IIM-LD-256 on these land disturbance construction activities as identified on these SWPPP General Information Sheets. The names will be updated and maintained with the other SWPPP documents for this land disturbance activity.

VDOT Individuals	Position	Responsibility
Marian Carroll	NPDES	NPDES coordinator responsible for the oversight inspection in accordance with IIM-LD-256
Pawan Sarang	Dist. Hyd. Engineer	District Hydraulic Engineer or designee(s) responsible for the review & the coordination approval of ESC SWM plan modification(s).

- 02 Revised land disturbance area.
- 03 Revised for new pond layout.
- 04 Revised land disturbance area.

REVISED NDC02 NDC03 NDC04	STATE	ROUTE	STATE	PROJECT	SHEET NO.
	VA.	621		6234-076-266, C-501, RW-201	10

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

*VSMP PERMIT TO BE OBTAINED AND MAINTAINED BY PRINCE WILLIAM COUNTY

* 13. The ESC and P2 inspections for this land disturbing (construction) activity shall follow (Select Schedule 1 or 2, if schedule *2 is used, void note *14) as defined in 2016 R&B Specifications except for Section 107.16(e) 4. an Inspection Requirements Rain gauge 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 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 are applicable to 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 and ESC projects > 10,000 s.f. but <1 acre.
- VDOT LD-445A: Permitted projects only.
- VDOT LD-445C: Projects that require a permit, ESC Plan, 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-445F: Emergency work projects (when applicable).
- Water Quality Requirement (when applicable)
- VDOT LD-445H: Permitted projects only.
- VDOT C-107 Part I and Part II. All projects that require a permit or SWPPP.
- VDOT LD-445I: AS&S Approval Form (when applicable)

16. If there is an excessive loading of sediment from the project (i.e. more than to be expected from the project with an implemented ESC plan) that is discovered within a local watershed with a sediment TMDL that allocates a WLA to VDOT's MS4, (see note *7) the contractor shall investigate the area of concern at the site within 24 hours of discovery and ensure all erosion and sediment control best management practices are being implemented in accordance with the permits approved standards and specifications required by Part I.B of the current Construction General Permit. If corrective action is necessary, the contractor shall initiate corrective actions no later than 5 business days after the initial investigation.

17. If excessive loading of sediment from a land disturbing activity that is not the responsibility of the contractor is discovered discharging into a MS-4, the contractor shall notify the municipality with jurisdiction over erosion and sediment control activities.

- * Denotes information that is to be provided/completed by the RLD.
- ** Denotes information that is to be provided/completed by the contractor.

Revised 5/1/19

VDOT PROJECT 6234-076-266	SHEET NO.
PNC PROJECT SPR2020-00383 S03	10



PROJECT MANAGER PWC DOT, Mary Ankers (703) 792-4228
SURVEYED BY, DATE Rinker Design Associates, P.C. (703) 369-7373, April 2020
DESIGN BY Rinker Design Associates, Mark Gunn, P.E. (703) 368-7373
SUBSURFACE UTILITY BY, DATE Accurmark (703) 635-3060, May 2020

STORMWATER POLLUTION PREVENTION PLAN (SWPPP) GENERAL INFORMATION SHEET FOR INFORMATION ONLY

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, 2019 and VDOT's approved Annual ESC and SWM Standards and Specifications.

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.

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.

SECTION VI - PERMANENT BMP INFORMATION Δ

* Denotes information that is to be completed by the RLD.
() See note referenced by number in parentheses.

- Δ 02 Revised SWPPP Drainage Area 10.
- Δ 03 Revised for new pond layout.
- Δ 04 Revised SWPPP drainage area for BMP-1 and Nutrient Credits.

REVISED	STATE	ROUTE	STATE	PROJECT	SHEET NO.
NDC02 NDC03 NDC04	VA.	62/		6234-076-266, C-501, RW-201	103

DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT
*VSMP PERMIT TO BE OBTAINED AND MAINTAINED BY PRINCE WILLIAM COUNTY

INSTALLED BMP INFORMATION (VDOT Owned/Operated)

Plan Sheet(s)	Date BMP Made Functional	Type of BMP Installed (See Table A and C)	Geographic Location (County or City)	Latitude/Longitude (1)		VA 6th Order HUC (7)	Receiving Water (2)	Name of Impaired Water (9)	Acres Treated Per BMP (3)			* BMP Maintenance ID Number (10)	BMP Maintenance Manual (11)	BMP Inspection Manual (11)
				LAT	LONG				Impervious	Pervious	TOTAL			
1Q(4)-1Q(11)		Retention Basin I (PL34-BMP-1)	Prince William	38.7794 N	77.5642 W	PL34	Unnamed Tributary to Broad Run	Broad Run	7.1	7.8	14.9		7	7
1Q(20)-1Q(27)		Extended Detention Basin (PL34-BMP-5)	Prince William	38.7867 N	77.5589 W	PL34	Dawkins Branch	Broad Run	2.1	1.4	3.5		7	7
1Q(28)-1Q(35)		Retention Basin I (PL34-BMP-9)	Prince William	38.7866 N	77.5517 W	PL34	Dawkins Branch	Broad Run	2.2	11.0	13.2		7	7
1Q(12)-1Q(19)		Extended Detention Basin (PL44-BMP-4)	Prince William	38.7924 N	77.5504 W	PL44	Unnamed Tributary to Youngs Branch	Youngs Branch	4.8	13.5	18.3		7	7
1Q(36)-1Q(44)		Retention Basin II (PL44-BMP-10)	Prince William	38.7922 N	77.5537 W	PL44	Unnamed Tributary to Youngs Branch	Youngs Branch	16.2	36.3	52.5		7	7

ALTERNATIVE BMP INFORMATION

Plan Sheet(s)	Date	Type of BMP Installed (See Table B)	Geographic Location (County or City) (5)	Latitude/Longitude (1) (5)		VA 6th Order HUC (5) (7)	Receiving Water (2)	Name of Impaired Water (9)
				LAT	LONG			

Perpetual Nutrient Credits Acquired for Project

Name of Nutrient Credit Generating Entity (6)	Nutrient Credits (lbs./TP./year) Acquired (6) (12)
Overland VA II, LLC	1.28

Δ 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 construction record drawings maintained in the VDOT Central Office Plan File Room (ProjectWise). 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 Division 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.

Table A: Permanent BMP Types (1999 Va. SWM Handbook)

- Bio-retention Basin
- Bio-retention Filter
- Constructed Stormwater Wetlands
- Extended Detention Basin
- Extended Detention Basin Enhanced
- Grossed 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)
- Detention Basin

Table C: Permanent BMP Types (BMP Clearing House)

- Sheet Flow to Vegetated Filter Strip
- Grass Channel
- Soil Compost Amendment
- Permeable Pavement (Level 1)
- Permeable Pavement (Level 2)
- Infiltration Practice (Level 1)
- Infiltration Practice (Level 2)
- Bioretention (Level 1)
- Bioretention (Level 2)
- Dry Swale (Level 1)
- Dry Swale (Level 2)
- Wet Swale (Level 1)
- Wet Swale (Level 2)
- Filtering Practice (Level 1)
- Filtering Practice (Level 2)
- Constructed Wetlands (Level 1)
- Constructed Wetlands (Level 2)
- Extended Detention Pond (Level 1)
- Extended Detention Pond (Level 2)
- Wet Pond (Level 1)
- Wet Pond (Level 2)
- Manufactured Treatment Device (MTD) (8)
- Other Approved Types (List Type)

NOTES:

- (1) In decimal degrees to the nearest one ten-thousandth of a degree.
- (2) For streams with no names, list "(Unnamed Tributary to downstream name)".
- (3) Show acres treated to the nearest one hundredths 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 - Y030.
- (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.
- (10) BMP Maintenance ID Number is to be assigned by the District Maintenance Division at permit termination or project completion. This ID number shall be assigned prior to the permit close out process and entered by the area construction engineer under this column, per IIM-LD-95

- (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.

Table B: Alternative BMP Types

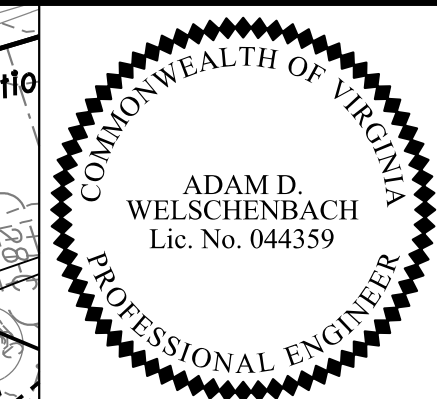
- Comprehensive SWM Plan (Regional) Facility
- Pollutant Loading Pro Rata Shore Program
- Other Approved Options (List Type) (4)



PROJECT MANAGER PWC DOT: Mary Ankers (703) 792-4228
 SURVEYED BY, DATE Rinker Design Associates, P.C. (703) 369-7373, April 2020
 DESIGN BY Rinker Design Associates, Mark Gunn, P.E. (703) 368-7373
 SUBSURFACE UTILITY BY, DATE AccuMark (703) 635-3060, May 2020

STORMWATER MANAGEMENT FACILITY PLAN AND DETAIL

PL34-BMP-1 PLAN VIEW
 RETENTION - II FACILITY

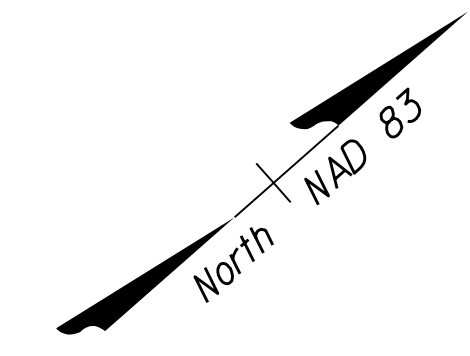


Rinker Design Associates, P.C.
 Manassas, Virginia
 HYDRAULICS ENGINEER

REVISED	STATE	ROUTE	STATE PROJECT	SHEET NO.
NDC04	VA.	621	6234-076-266, C-501, RW-201	10(4)

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

04 Revised notes, planview and grading for BMP-1.



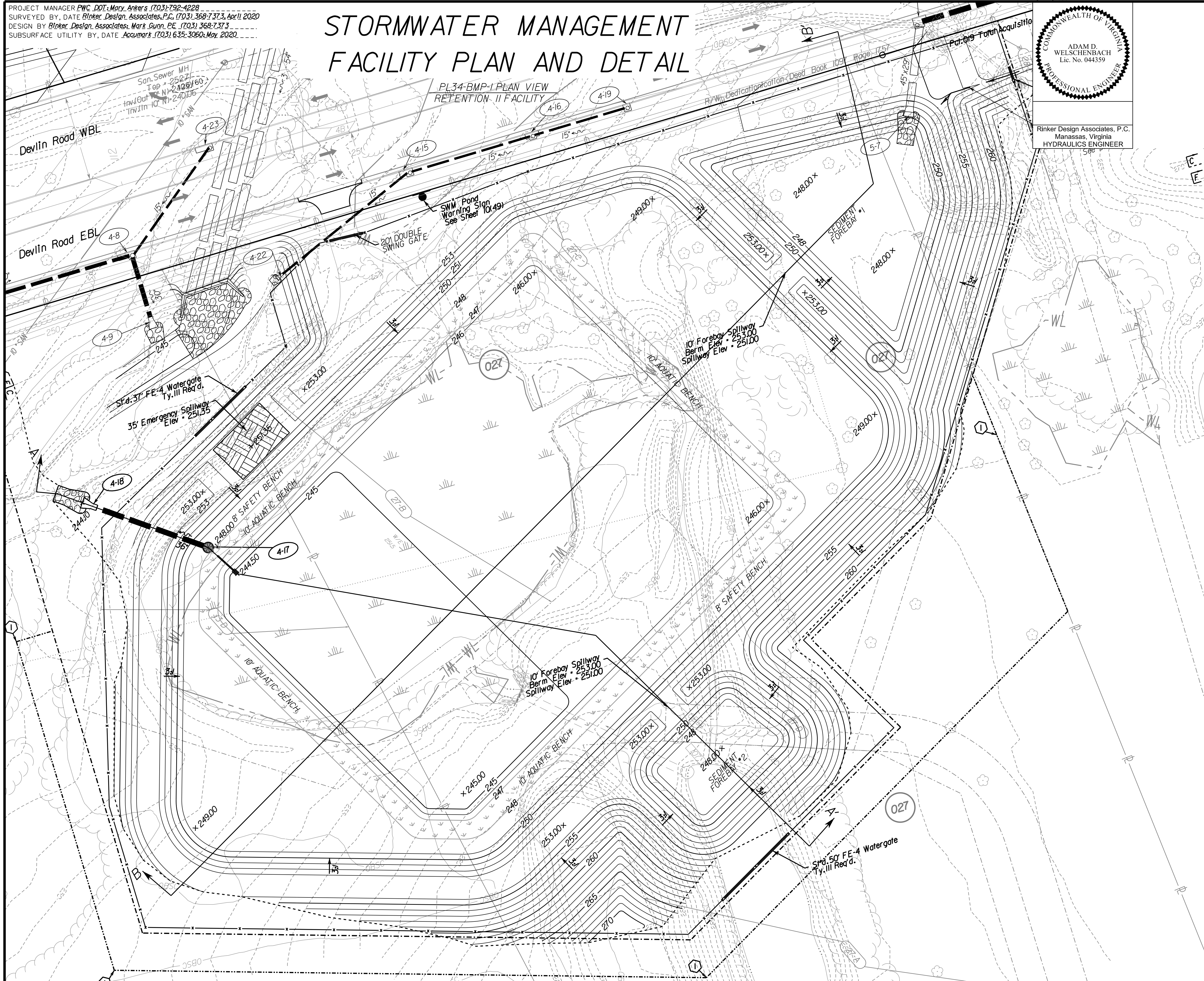
R/W Legend

	Denotes Prop. Temp. Constr. Ease.
	Denotes Prop. Temp. Constr. Ease. for Entrances & Parking Lots
	Denotes Prop. Perm. Drain. Ease.
	Denotes Prop. Utility Ease.

Retention Pond: PL34-BMP 1	
Total SA (SF) -	56,809
Pool Depth % of Surface Area	
0-1.0 ft	15.8%
1.0-3.5 ft	84.2%

- NOTES:**
- As-Built Drawing of Stormwater Management Facilities. The Contractor shall provide As-Built drawings of all stormwater management facilities. The As-Built drawings shall show the actual finished ground contours, outlet structure dimensions and elevations, etc. as they exist at the completion of the project. These drawings shall be signed and sealed by the Licensed Professional Engineer or Land Surveyor registered in the State of Virginia. All costs shall be included under Construction Surveying.
 - Inspections during critical stages of construction shall occur under direct supervision of a Virginia Professional Engineer to ensure that the facility is built per the approved plans and design.
 - This facility shall be maintained by Virginia Eagle Properties LLC.
 - Refer to Sheet 2L thru 2L(6) for Drainage Descriptions.
 - The contractor shall provide certification from an independent source that all proposed BMP facilities were constructed in accordance with applicable and current industry standards, and the manufacturer's specifications. All costs shall be included under Construction Surveying.
 - The contractor shall be responsible for maintaining the proposed BMP's once all connections have been completed, and shall certify that the BMP has been maintained per manufacturer's maintenance guidelines (or relevant industry standards) prior to transfer to Virginia Eagle Properties LLC.
 - When installing the steps and trash rack to the control structure, the contractor shall ensure that the steps and trash rack hinged access door are oriented to the embankment side of the control structure, and are to the extent possible, in direct alignment with each other.

SCALE 0 25' 50'	VDOT PROJECT 6234-076-266 PWC PROJECT SPR2020-00383 S03	SHEET NO. 10(4)
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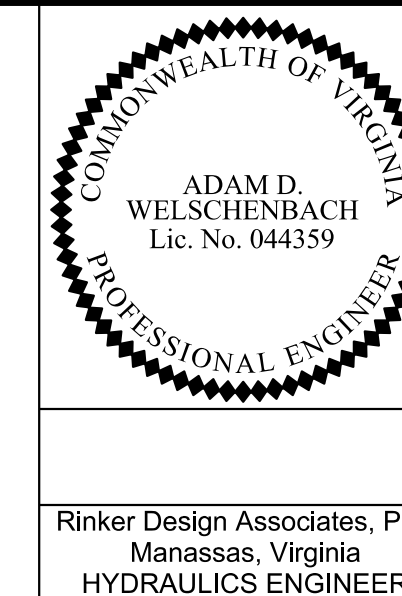
Design Associates, P.C.
 Civil Engineering - Surveying - Land Planning
 Transportation - Environmental - Right of Way Services



NOVA DISTRICT DESIGN UNIT
 7/1/2021

PROJECT MANAGER PWC DOT, Mary Ankers (703) 792-4228
 SURVEYED BY, DATE Rinker Design Associates, P.C. (703) 369-7373, April 2020
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 SUBSURFACE UTILITY BY, DATE AccuMark (703) 635-3060, May 2020

STORMWATER MANAGEMENT FACILITY PLAN AND DETAIL



REVISED	STATE	ROUTE	STATE	PROJECT	SHEET NO.
NDC04	VA.	62/		6234-076-266, C-501, RW-201	10(5)

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

04 Revised notes, profiles and details for BMP-1.

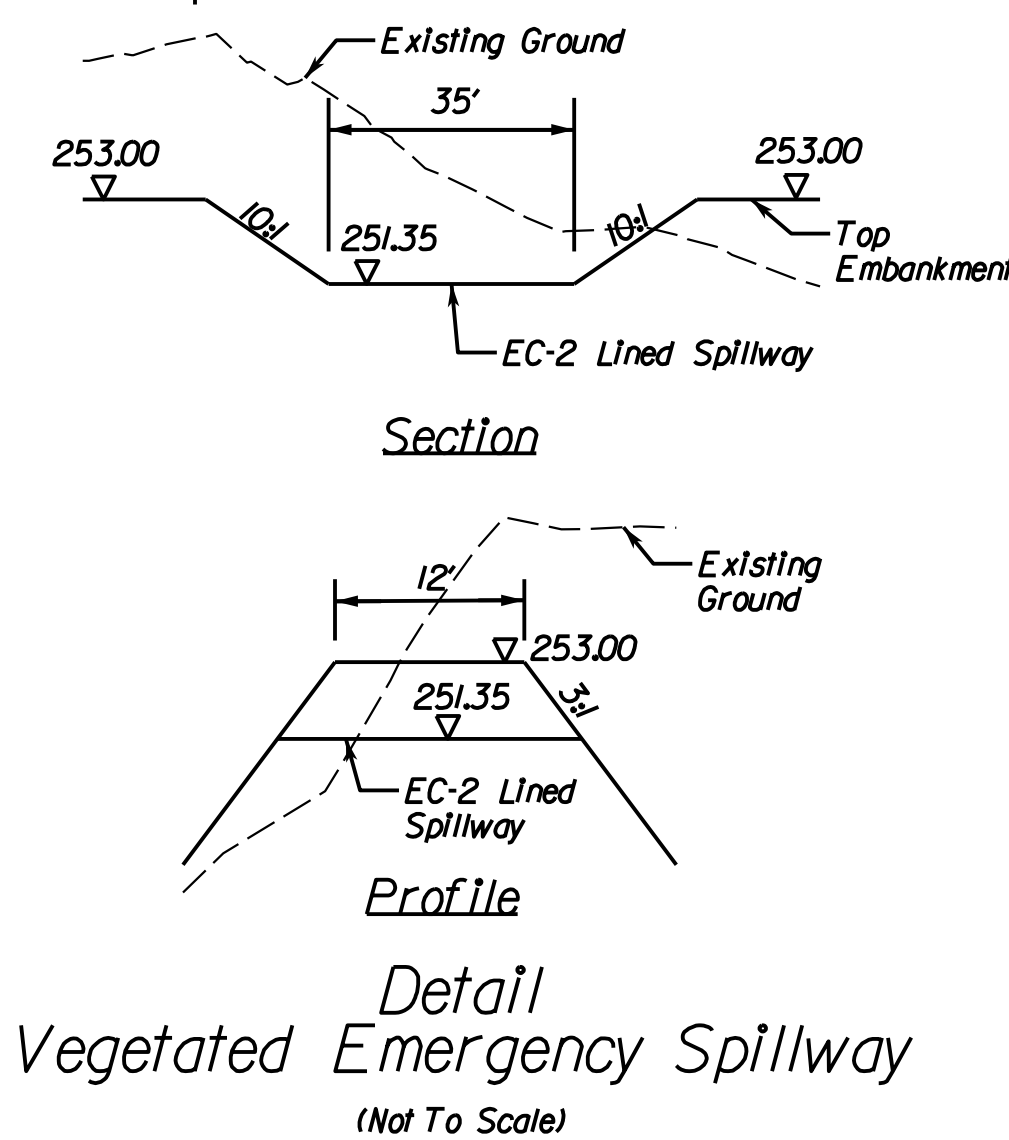
AQUATIC BENCH
 Area - Retention Basin II requires an Aquatic Bench at depth range 0' - 1.5' to equal 15% of the pool surface. Aquatic bench areas are highlighted in plans:
 Pool elev = 248.00 at surface area = 56805 SF
 15% required bench = 56809 x 0.15 = 8520 SF
 Aquatic Bench provided = 8880 SF

Landscaping - Planting/landscaping of the Aquatic Bench areas shall comply with VDM Part IIC BMP Design Manual of Practice, Section 4.3.8 which references Chapter 3-05 of the "Virginia Stormwater Management Handbook (VSWM HB). Plantings for the Aquatic Bench are selected from the VSWM HB "Zone 2" acceptable Plantings List. Plantings shall be evenly spaced and distributed across Aquatic Bench areas in the Quantity Tabulated. Equivalent species from the VSWM Zone 2 list may be substituted due to availability at the time of installation:

PLANTING SCHEDULE

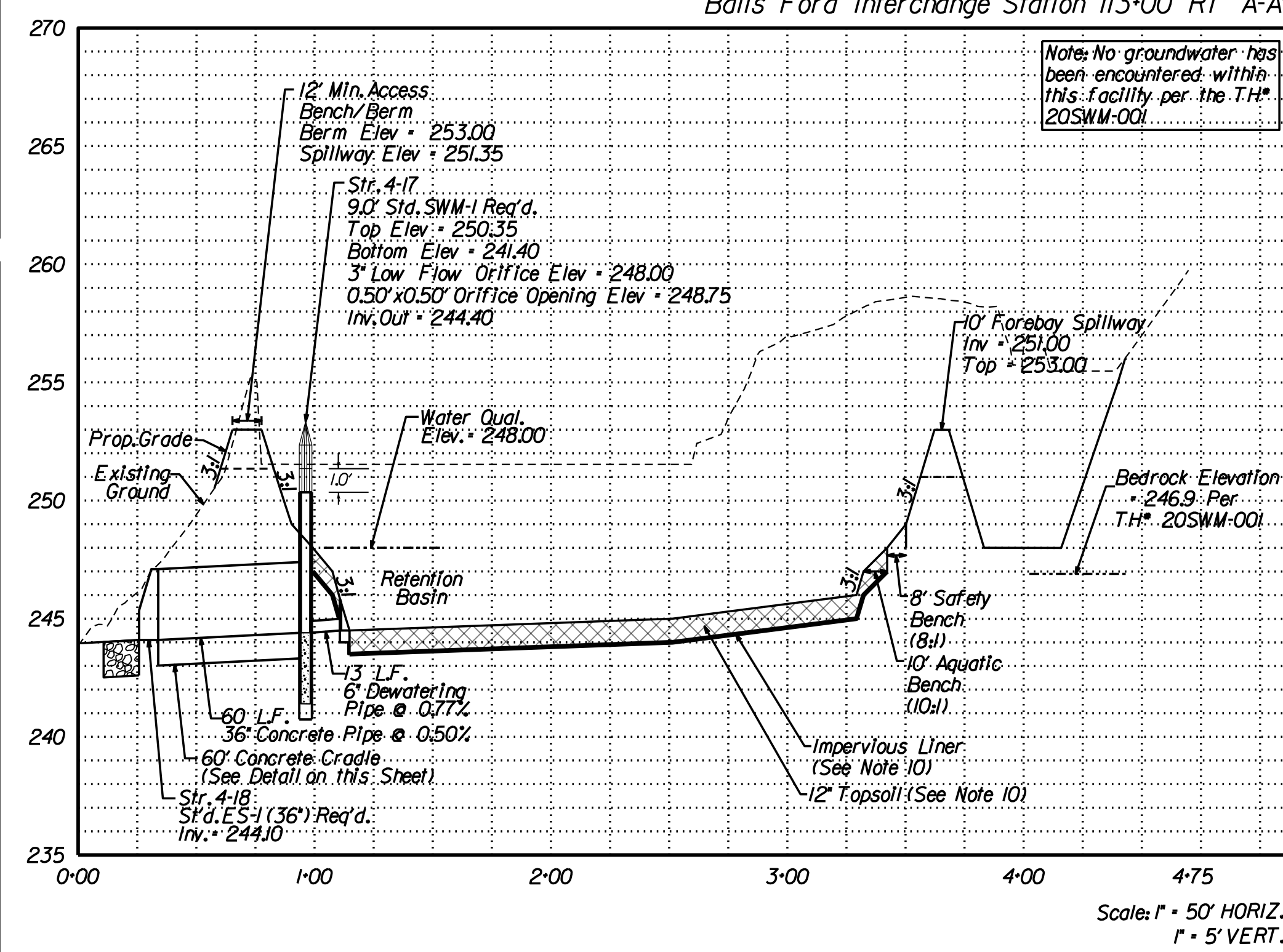
Quantity	Botanical Name	Common Name
21	Peltandra virginica	Arrow Arum
18	Sagittaria latifolia	Arrowhead/Duck Potato
16	Scipus pungens	Common Three Square
12	Saururus cernuus	Lizard's Tail
12	Nuphar luteum	Spatterdock
9	Zizania aquatica	Wild Rice
Total	88	

NOTE: For seeding specifications, please see the Roadside Development on sheet 1R(7).

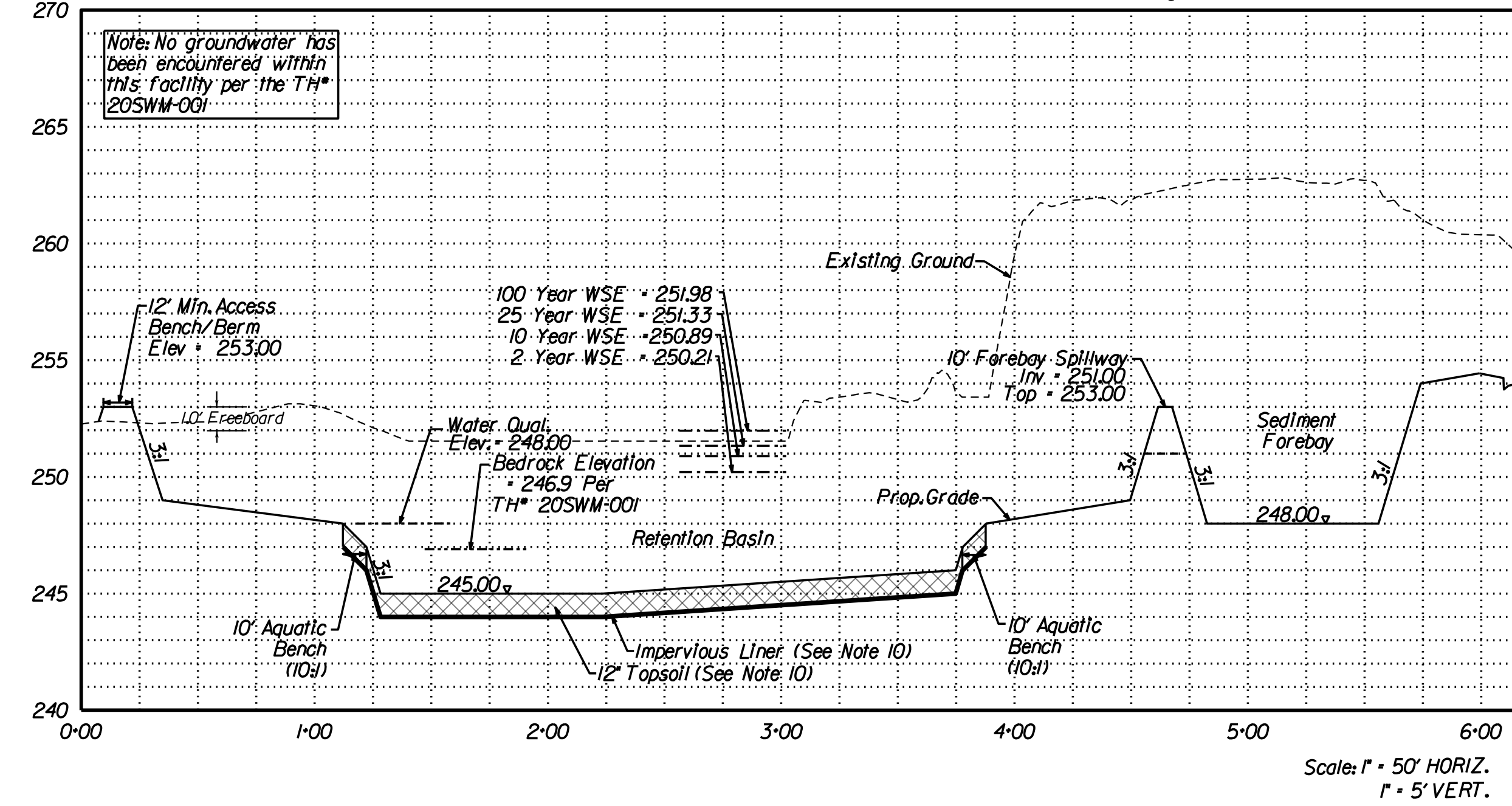


PL34-BMP-1 PROFILE VIEW
 RETENTION II FACILITY

Retention Pond II PL34-BMP-1
 Balls Ford Interchange Station 113+00 RT A-A'

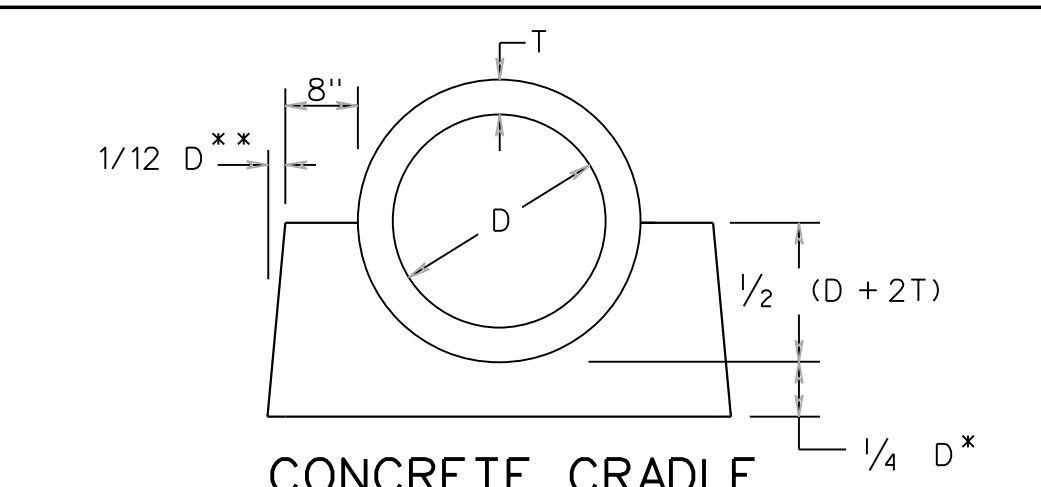


Retention Pond II PL34-BMP-1
 Balls Ford Interchange Station 113+00 RT B-B'



- NOTES:
- As-Built Drawing of Stormwater Management Facilities. The Contractor shall provide As-Built drawings of all stormwater management facilities. The As-Built drawings shall show the actual finished ground contours, outlet structure dimensions and elevations, etc. as they exist at the completion of the project. These drawings shall be signed and sealed by the Licensed Professional Engineer or Land Surveyor registered in the State of Virginia. All costs shall be included under Construction Surveying.
 - Inspections during critical stages of construction shall occur under direct supervision of a Virginia Professional Engineer to ensure that the facility is built per the approved plans and design.
 - This facility shall be maintained by Virginia Eagle Properties LLC.
 - Refer to Sheet 2L thru 2L(6) for Drainage Descriptions.
 - The contractor shall provide certification from an independent source that all proposed BMP facilities were constructed in accordance with applicable and current industry standards, and the manufacturer's specifications. All costs shall be included under Construction Surveying.
 - The contractor shall be responsible for maintaining the proposed BMP's once all connections have been completed, and shall certify that the BMP has been maintained per manufacturer's maintenance guidelines (or relevant industry standards) prior to transfer to Virginia Eagle Properties LLC.
 - When installing the steps and trash rack to the control structure, the contractor shall ensure that the steps and trash rack hinged access door are oriented to the embankment side of the control structure, and are to the extent possible, in direct alignment with each other.
 - Groundwater and Bedrock Information was obtained from the Geotechnical Engineering Report by WSP dated January 26, 2021.
 - Per the Geotechnical Report, cut-off trenches are not considered necessary for the pond design due to the existing cohesive soils at the pond locations.
 - Compacted Clay Liner (12" minimum thickness) or Geosynthetic Clay Liner with 12" topsoil cover over Clay Liner shall be provided from normal pool to invert per VDOT Drainage Manual Part IIC BMP Design Manual of Practice, Section 4.3.1. Liner shall comply with VDOT Special Provision for "Low Permeability Liners for Stormwater Management Facilities" dated 10/7/11. Clay Liner details have been provided on sheet 1Q(7).

- NOTES:
- Sluice gate shall meet AWWA C-501 general and performance criteria. All wedges and wedge blocks shall be of corrosion resistant material.
 - The gate valve is normally closed at all times during normal pond operation. The gate valve shall be opened to dewater the normal pool for maintenance activities.
 - Wall thimble opening shall be sealed with non shrink grout and/or solid masonry units per VDOT Spec. 302.3 (B).
 - Sluice gate valve, operating handle, riser stem, flanges, thimble, seal, and all necessary mounting and operating appurtenances will be included in the price of the gate valve. 6" DIP pipe and modified EW-12 shall be included.
 - Steps as required shall be provided with minimum 12" clearance from valve assemblies to facilitate operation and maintenance.
 - Operating handle/stem shall be anchored to the wall and extend above the permanent pool.
- Gate Valve**
 Use- Waterman Model SC-5900 6" sluice gate with resilient seats, or Penn-Troy, Troy Valve Model A 3500, 6" sluice gate or Hydro Gate heavy duty sluice gate, Model HG 560, 6" (Or approved equal with Resilient Seats)
- Dewatering Procedure**
 In the event that dewatering of the permanent pools is required, contractor to open sluice gate to allow water volume above the the outlet to drain.
- | | |
|--------------------------|------------------------------|
| Permanent Pool Elevation | 248.00 |
| Volume of Permanent Pool | 131,232 cf (981,684 gallons) |
| Invert of Sluice Gate | 244.40 |
| Basin Invert | 244.50 |

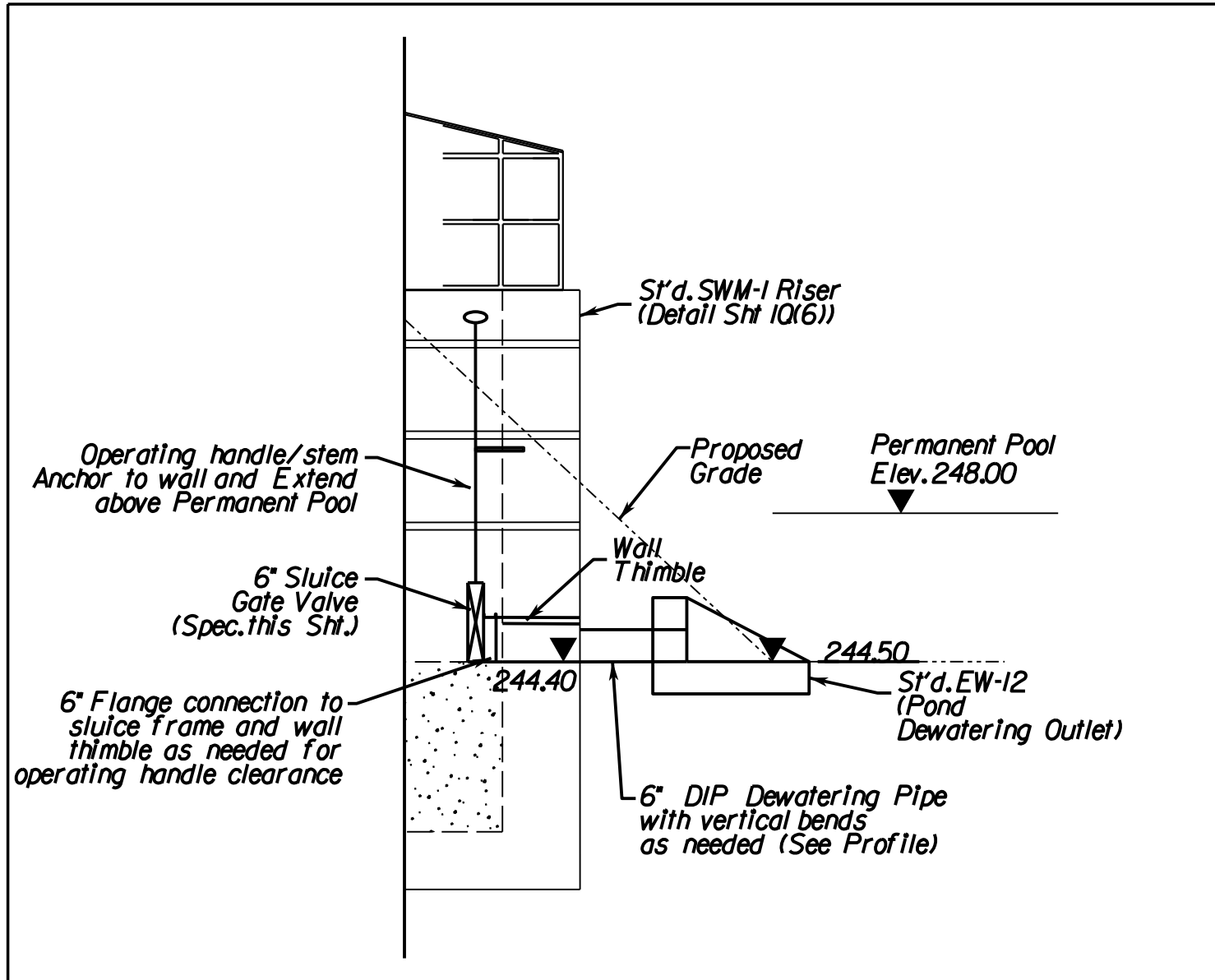


CONCRETE CRADLE

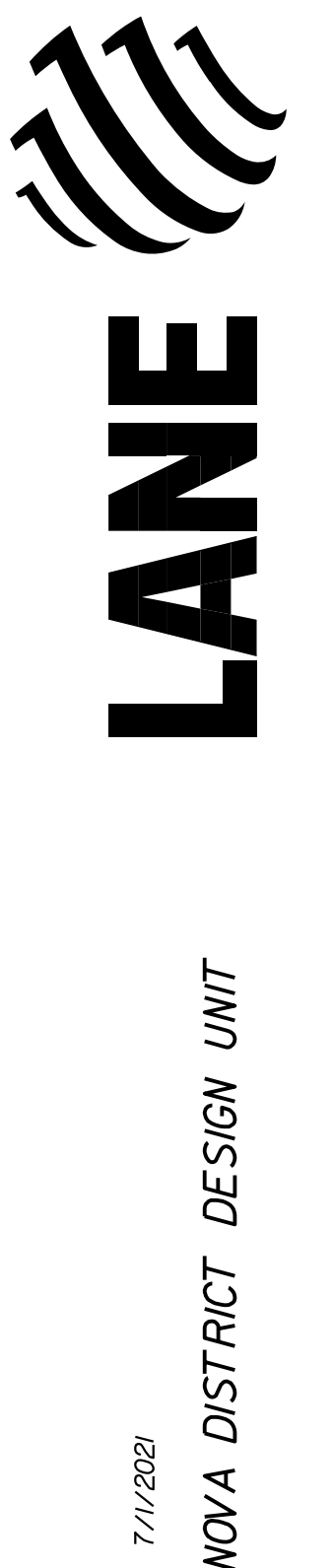
PIPE SIZE INCHES	CRADLE BOTTOM WIDTH (INCHES)	CRADLE HEIGHT (INCHES)	CRADLE TOP WIDTH (INCHES)	INCREMENT, IN CUBIC YARDS, PER LINEAR FOOT OF PIPE
12	34	14	32	0.093
15	38	15.75	35.5	0.110
18	42	17.5	39	0.129
24	50	21	46	0.168
30	58	26	53	0.233
36	66	31	60	0.307
42	74	36	67	0.390

CONCRETE SHALL BE CLASS A3
 * BUT NOT LESS THAN 6"
 ** IF THE PIPE IS LAID IN AN EXCAVATED TRENCH, THEN THE SIDE WALLS MAY CONFORM TO THE TRENCH SHAPE (IE THE TRENCH MAY BECOME THE CRADLE FORM).

CONCRETE CRADLE IS TO BE INSTALLED UNDER THE ENTIRE LENGTH OF CULVERT AT EACH STORMWATER MANAGEMENT BASIN.
 CONCRETE CRADLE IS TO BE PAID FOR AS MISCELLANEOUS CONCRETE AND SUMMARIZED IN CUBIC YARDS FOR EACH PIPE LOCATION



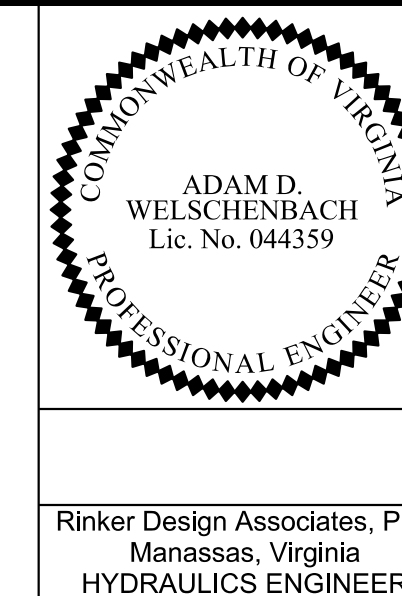
Pond Drain with Sluice Gate Valve Detail
 (Not to Scale)



PROJECT MANAGER PWC_DOT: Mary Ankers (703) 792-4228
 SURVEYED BY, DATE Rinker Design Associates, P.C. (703) 369-7373, April 2020
 DESIGN BY Rinker Design Associates, Mark Gunn, P.E. (703) 368-7373
 SUBSURFACE UTILITY BY, DATE AccuMark (703) 635-3060, May 2020

STORMWATER MANAGEMENT FACILITY PLAN AND DETAIL

PL34-BMP-I DETAILS
 RETENTION II FACILITY



Rinker Design Associates, P.C.
 Manassas, Virginia
 HYDRAULICS ENGINEER

REVISED	STATE	ROUTE	PROJECT	SHEET NO.
NDC04	VA.	62I	6234-076-266, C-50I, RW-20I	106I

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

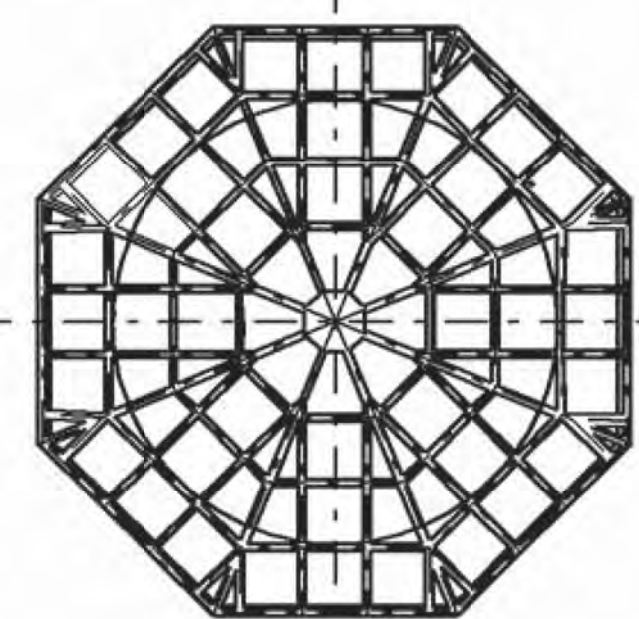
04 Revised notes and riser details for BMP-I.

2016 ROAD & BRIDGE STANDARDS

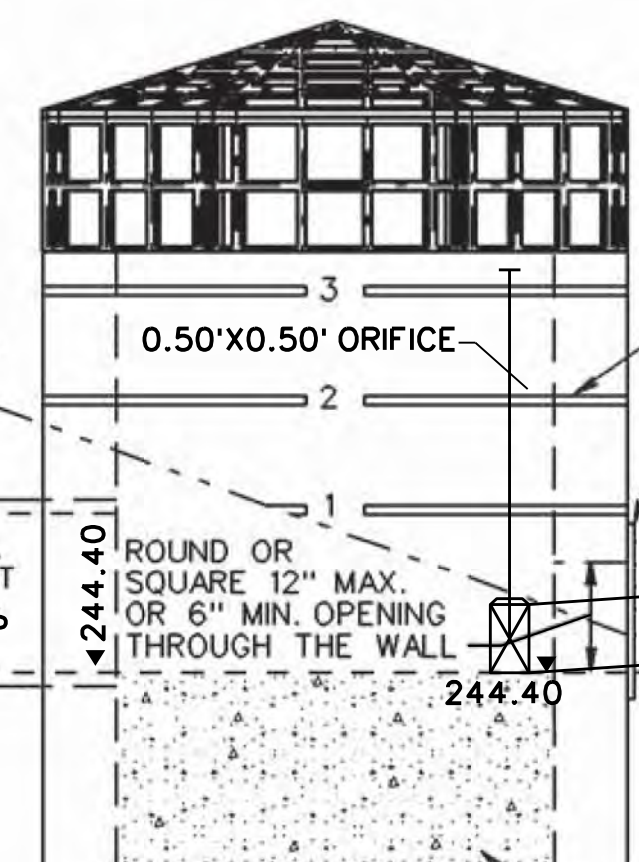
2016 ROAD & BRIDGE STANDARDS

NOTES:

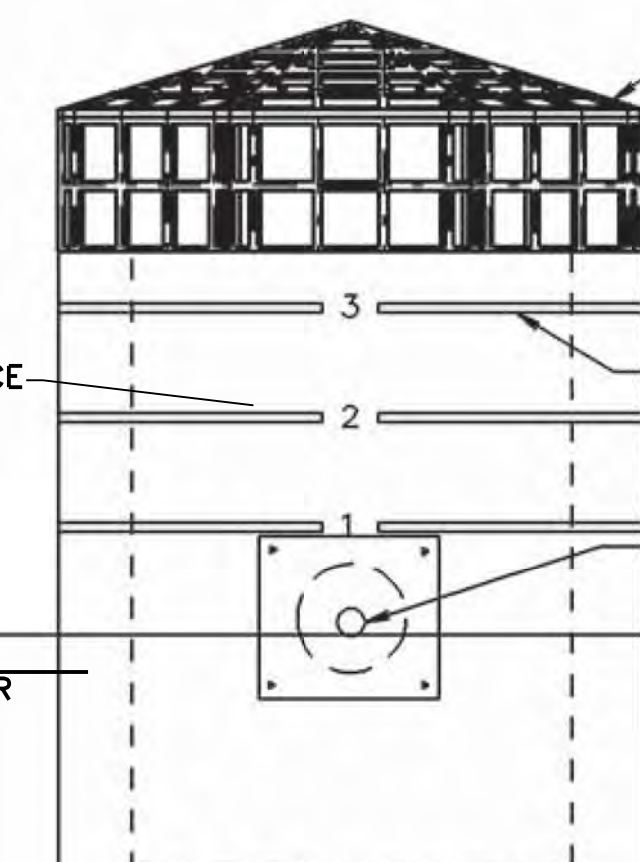
- COST OF TRASH RACK AND DEBRIS RACK ARE TO BE INCLUDED IN THE PRICE BID FOR THE STORMWATER MANAGEMENT DRAINAGE STRUCTURE.
- STRUCTURE MAY BE PRECAST OR CAST IN PLACE. SEE SHEET 1 OF 3 FOR DETAILS ON CAST IN PLACE STRUCTURE.
- WEEP HOLES SHALL NOT BE PROVIDED. ANY LIFT HOLES SHALL BE PLUGGED.
- STEPS ARE TO BE PROVIDED WHEN HEIGHT OF STRUCTURE IS 4'-0" OR GREATER ABOVE INVERT OF OUTLET PIPE. FOR STEP DETAILS SEE STANDARD ST-1.
- SEE STANDARD SWM-DR FOR DETAILS ON PLATE, DEBRIS RACK AND TRASH RACK.
- MARK HEIGHT OF STRUCTURE, IN BLACK, WITH 4" HIGH NUMERALS AND 1" WIDE HORIZONTAL STRIPES AT 1' INTERVALS FROM INVERT OF WATER QUALITY ORIFICE (ALL VISIBLE SIDES).
- THE PERMANENT STORMWATER MANAGEMENT DRAINAGE STRUCTURE, STANDARD SWM-1 MAY BE MODIFIED WHERE THE STORMWATER MANAGEMENT BASIN IS TO BE USED AS A TEMPORARY SEDIMENT BASIN DURING PROJECT CONSTRUCTION. SEE STANDARD SWM-DR, SHEET 1 OF 5 FOR TEMPORARY MODIFICATION DETAILS.
- THE SIZE OF THE WATER QUALITY ORIFICE SHALL BE SPECIFIED ON THE PLANS. ADDITIONAL OPENINGS IN THE STORMWATER MANAGEMENT DRAINAGE STRUCTURE TO BE PROVIDED WHEN SPECIFIED ON THE PLANS.



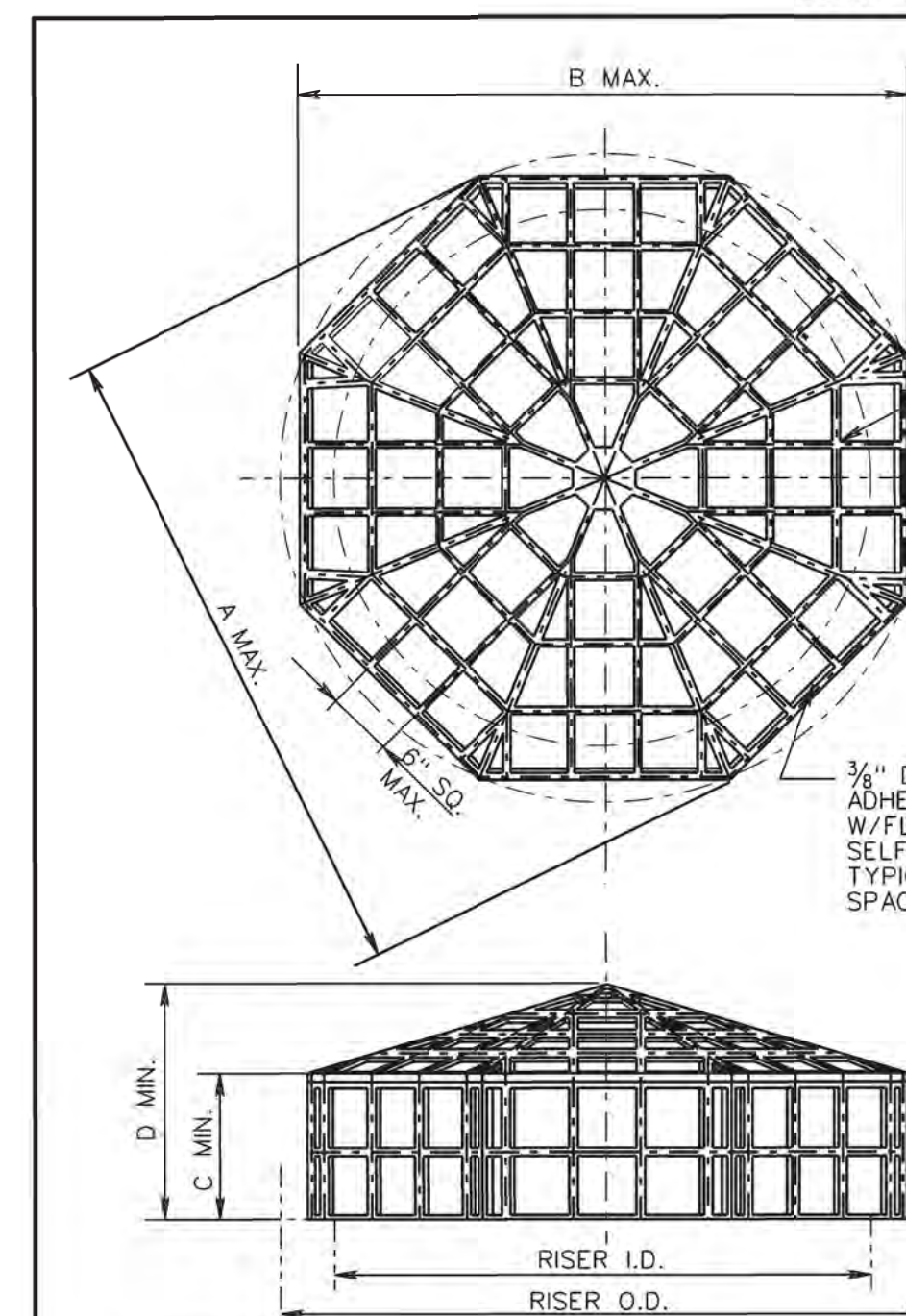
PLAN VIEW



SIDE VIEW
 SWM DRAINAGE STRUCTURE



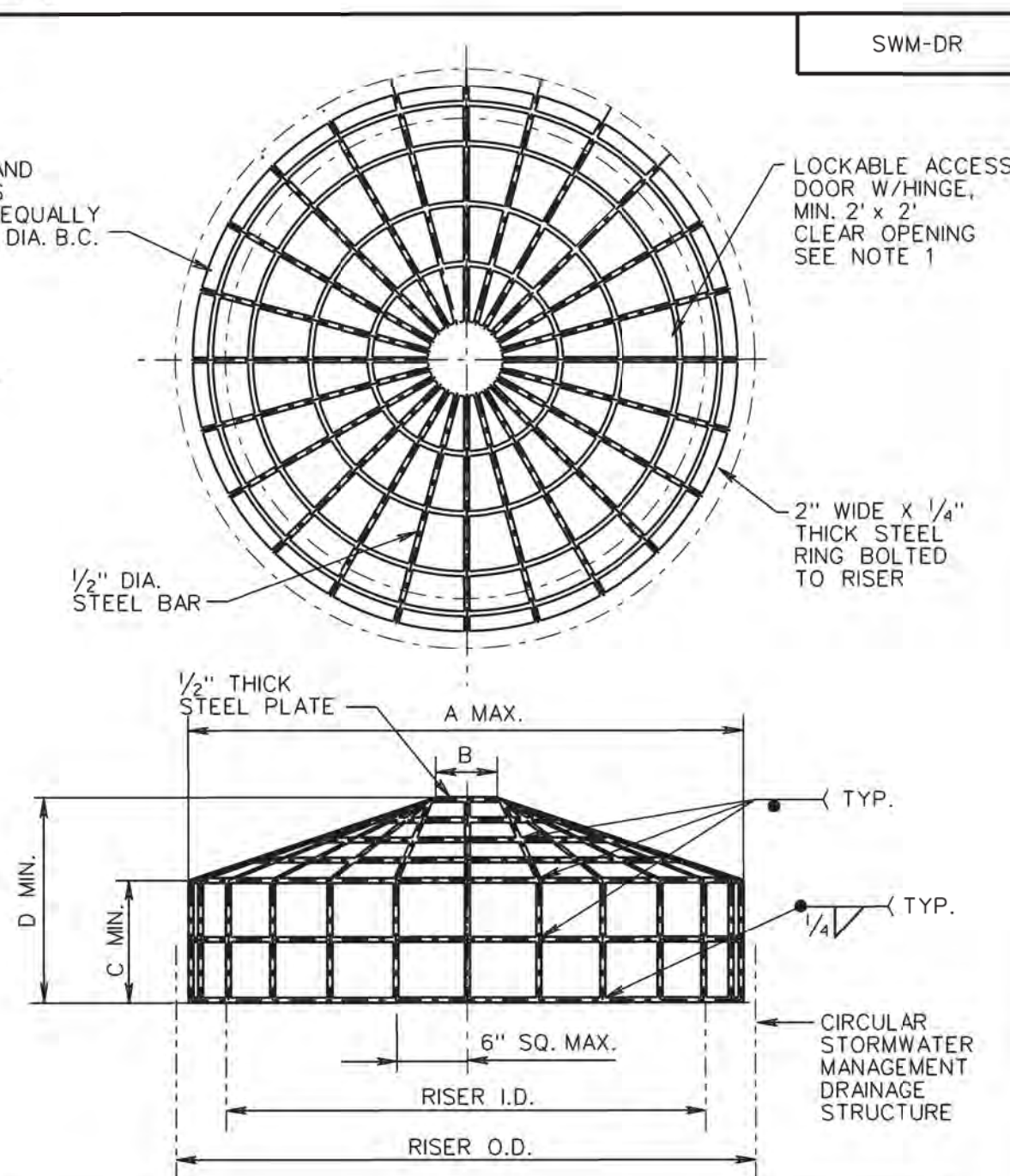
FRONT VIEW
 (DEBRIS RACK NOT SHOWN)



3/8" DIA. X 6" LG. ADHESIVE BOLTS W/FLAT WASHERS AND SELF LOCKING NUTS. TYPICAL 8 PLACES-EQUALLY SPACED ON AN "E" DIA. B.C.

LOCKABLE ACCESS DOOR W/HINGE MIN. 2' X 2' CLEAR OPENING SEE NOTE 2

3/8" DIA. X 6" LG. ADHESIVE BOLTS W/FLAT WASHERS AND SELF LOCKING NUTS. TYPICAL 8 PLACES-EQUALLY SPACED ON AN "E" DIA. B.C.



RISER I.D.	O.D.	DIMENSION					SEGMENT	APPROX. WT. (LBS.)
		A	B	C	D	E		
24	30	31	28 5/8	7	11	27	15	46
36	44	45	41 1/2	13	19	40	22	82
48	58	59	54 1/2	13	21	53	29	120
60	72	73	67 1/2	17	28	66	36	169
72	86	87	80 3/4	23	35	79	42	227
84	100	101	93 1/4	25	39	92	49	290
96	114	115	106 1/4	22	38	105	56	341

RISER I.D.	O.D.	DIMENSION					SEGMENT	APPROX. WT. (LBS.)
		A	B	C	D	E		
24	30	31	28 5/8	7	11	27	15	46
36	44	45	41 1/2	13	19	40	22	82
48	58	59	54 1/2	13	21	53	29	120
60	72	73	67 1/2	17	28	66	36	169
72	86	87	80 3/4	23	35	79	42	227
84	100	101	93 1/4	25	39	92	49	290
96	114	115	106 1/4	22	38	105	56	341

- NOTES:
- ALL METAL TRASH RACKS 36" IN DIAMETER AND LARGER OR WITH A TOTAL WEIGHT OF 75 LBS OR GREATER SHALL HAVE A HINGED, LOCKABLE ACCESS DOOR WITH A MINIMUM 2' X 2' CLEAR OPENING.
 - ALL HIGH DENSITY POLYETHYLENE TRASH RACKS 48" IN DIAMETER AND LARGER SHALL HAVE A HINGED, LOCKABLE ACCESS DOOR WITH A MINIMUM 2' X 2' CLEAR OPENING.
 - ANTI-VORTEX PLATE IS TO BE USED WHEN SPECIFIED ON THE PLANS. COST OF FURNISHING AND PLACING THE ANTI-VORTEX PLATE IS TO BE INCLUDED IN THE BID PRICE FOR THE STRUCTURE.

SPECIFICATION REFERENCE 302	STORMWATER MANAGEMENT DETAILS TRASH RACK FOR SWM DRAINAGE STRUCTURES		VDOT ROAD AND BRIDGE STANDARDS	
	REVISION DATE 07/16	SHEET 4 OF 5 114.07		

2016 ROAD & BRIDGE STANDARDS

- NOTES:
- As-Built Drawing of Stormwater Management Facilities. The Contractor shall provide As-Built drawings of all stormwater management facilities. The As-Built drawings shall show the actual finished ground contours, outlet structure dimensions and elevations, etc. as they exist at the completion of the project. These drawings shall be signed and sealed by the Licensed Professional Engineer or Land Surveyor registered in the State of Virginia. All costs shall be included under Construction Surveying.
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 - This facility shall be maintained by Virginia Eagle Properties LLC.
 - Refer to Sheet 2L thru 2L(6) for Drainage Descriptions.
 - The contractor shall provide certification from an independent source that all proposed BMP facilities were constructed in accordance with applicable and current industry standards, and the manufacturer's specifications. All costs shall be included under Construction Surveying.
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 - When installing the steps and trash rack to the control structure, the contractor shall ensure that the steps and trash rack hinged access door are oriented to the embankment side of the control structure, and are to the extent possible, in direct alignment with each other.

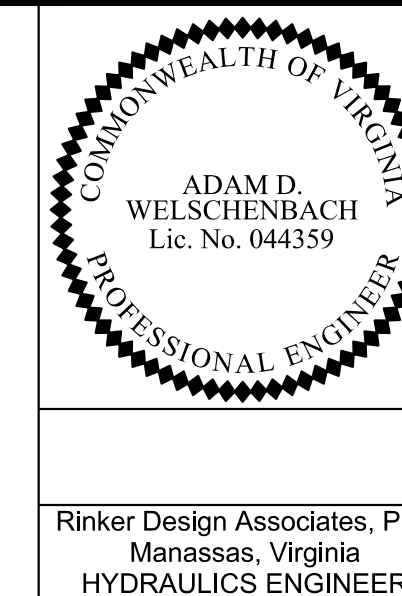
VDOT ROAD AND BRIDGE STANDARDS		PRECAST STORMWATER MANAGEMENT DRAINAGE STRUCTURE (4-17)		SPECIFICATION REFERENCE 105 302
SHEET 2 OF 3 114.02	REVISION DATE 08/10	VIRGINIA DEPARTMENT OF TRANSPORTATION		

2016 ROAD & BRIDGE STANDARDS

Office Locations: Manassas, VA; Fairfax, VA; Falls Church, VA; Herndon, VA; Reston, VA; Springfield, VA; Washington, DC; York, VA
 Design Associates, P.C.
 Civil Engineering • Surveying • Land Planning
 Transportation • Right of Way Services
 Rinker
 LANE
 NOVA DISTRICT DESIGN UNIT
 7/1/2021

PROJECT MANAGER **PWC_DOT_Mary Ankers (703) 792-4228**
 SURVEYED BY, DATE **Rinker Design Associates, P.C. (703) 369-7373, April 2020**
 DESIGN BY **Rinker Design Associates, Mark Gunn, P.E. (703) 368-7373**
 SUBSURFACE UTILITY BY, DATE **Accurmark (703) 635-3060, May 2020**

STORMWATER MANAGEMENT FACILITY PLAN AND DETAIL



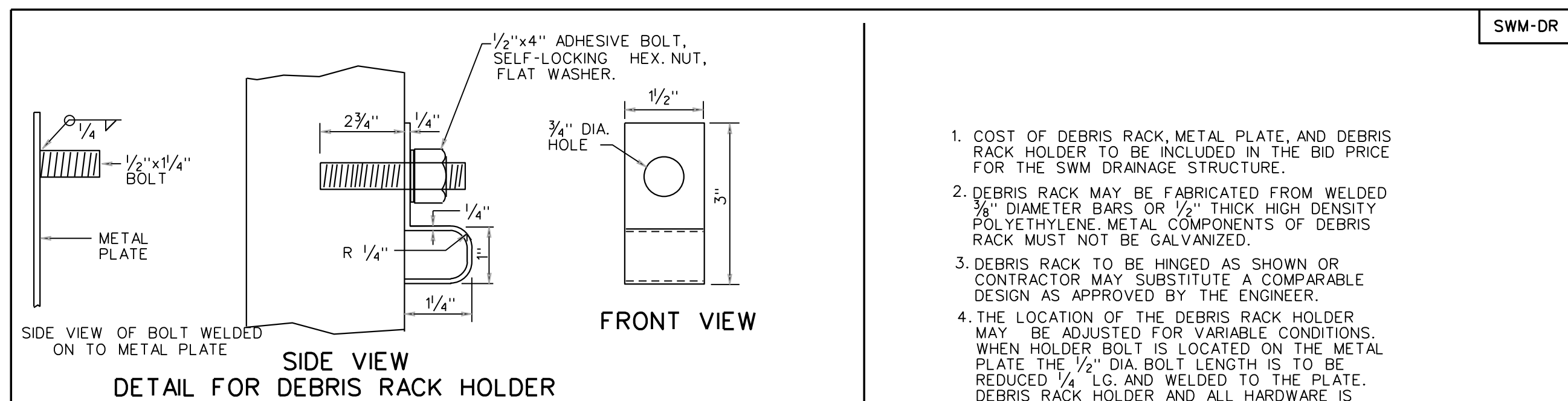
Rinker Design Associates, P.C.
 Manassas, Virginia
 HYDRAULICS ENGINEER

REVISED	STATE	ROUTE	PROJECT	SHEET NO.
NDC04	VA.	62/	6234-076-266, C-501, RW-201	10(7)

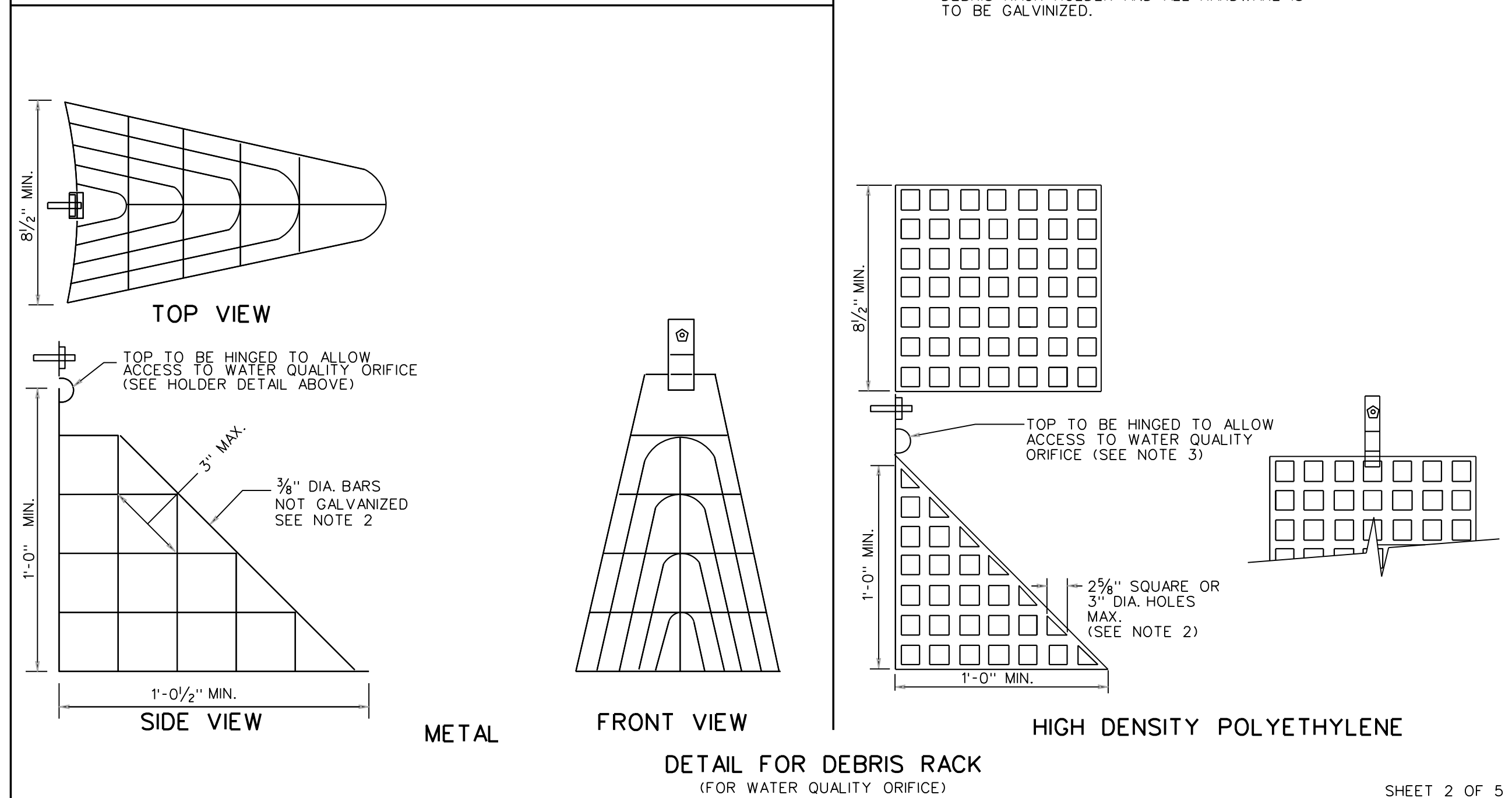
DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT

04 Revised notes, details and fact sheet for BMP-I.

PL34-BMP-1 DETAIL
 RETENTION II FACILITY



- COST OF DEBRIS RACK, METAL PLATE, AND DEBRIS RACK HOLDER TO BE INCLUDED IN THE BID PRICE FOR THE SWM DRAINAGE STRUCTURE.
- DEBRIS RACK MAY BE FABRICATED FROM WELDED 3/8" DIAMETER BARS OR 1/2" THICK HIGH DENSITY POLYETHYLENE. METAL COMPONENTS OF DEBRIS RACK MUST NOT BE GALVANIZED.
- DEBRIS RACK TO BE HINGED AS SHOWN OR CONTRACTOR MAY SUBSTITUTE A COMPARABLE DESIGN AS APPROVED BY THE ENGINEER.
- THE LOCATION OF THE DEBRIS RACK HOLDER MAY BE ADJUSTED FOR VARIABLE CONDITIONS. WHEN HOLDER BOLT IS LOCATED ON THE METAL PLATE THE 1/2" DIA. BOLT LENGTH IS TO BE REDUCED 1/4" L.C. AND WELDED TO THE PLATE. DEBRIS RACK HOLDER AND ALL HARDWARE IS TO BE GALVANIZED.



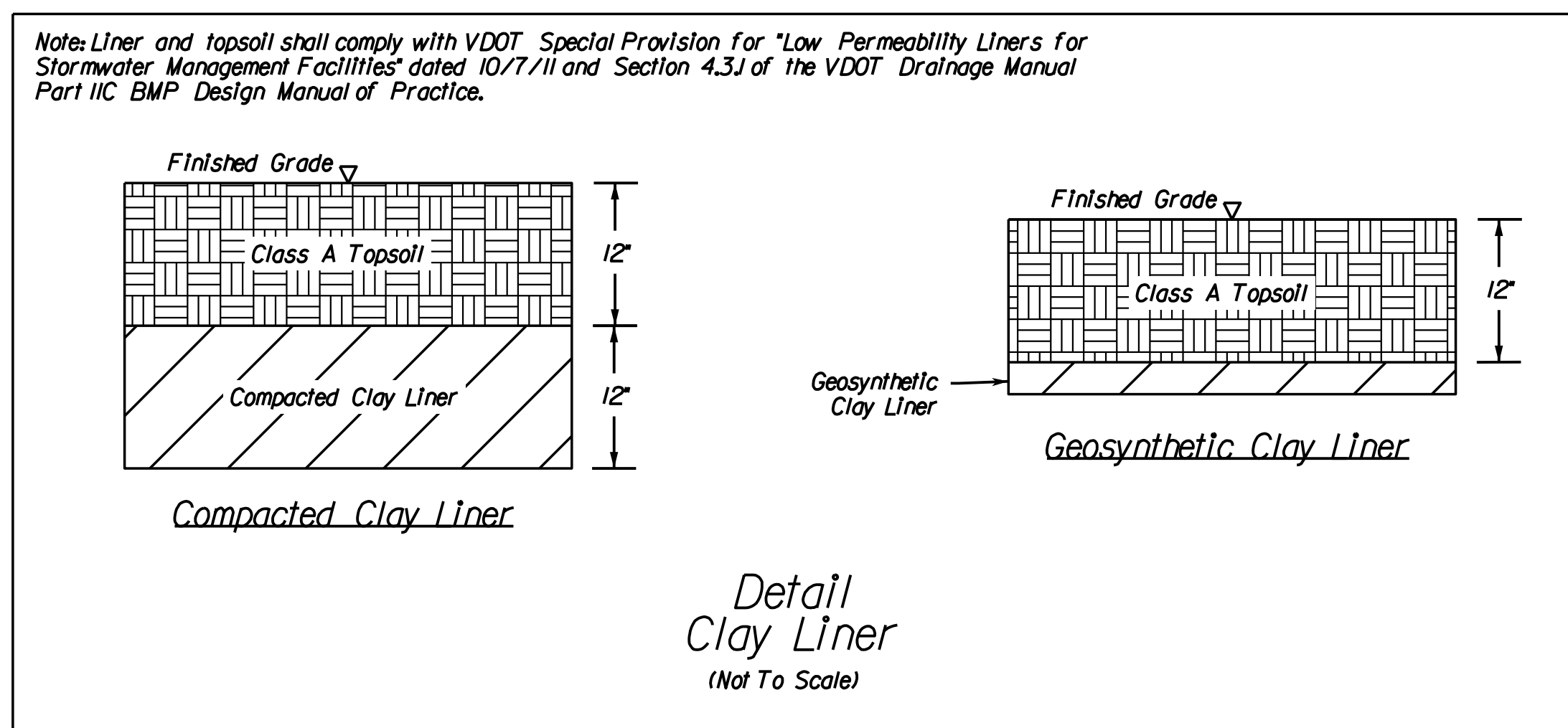
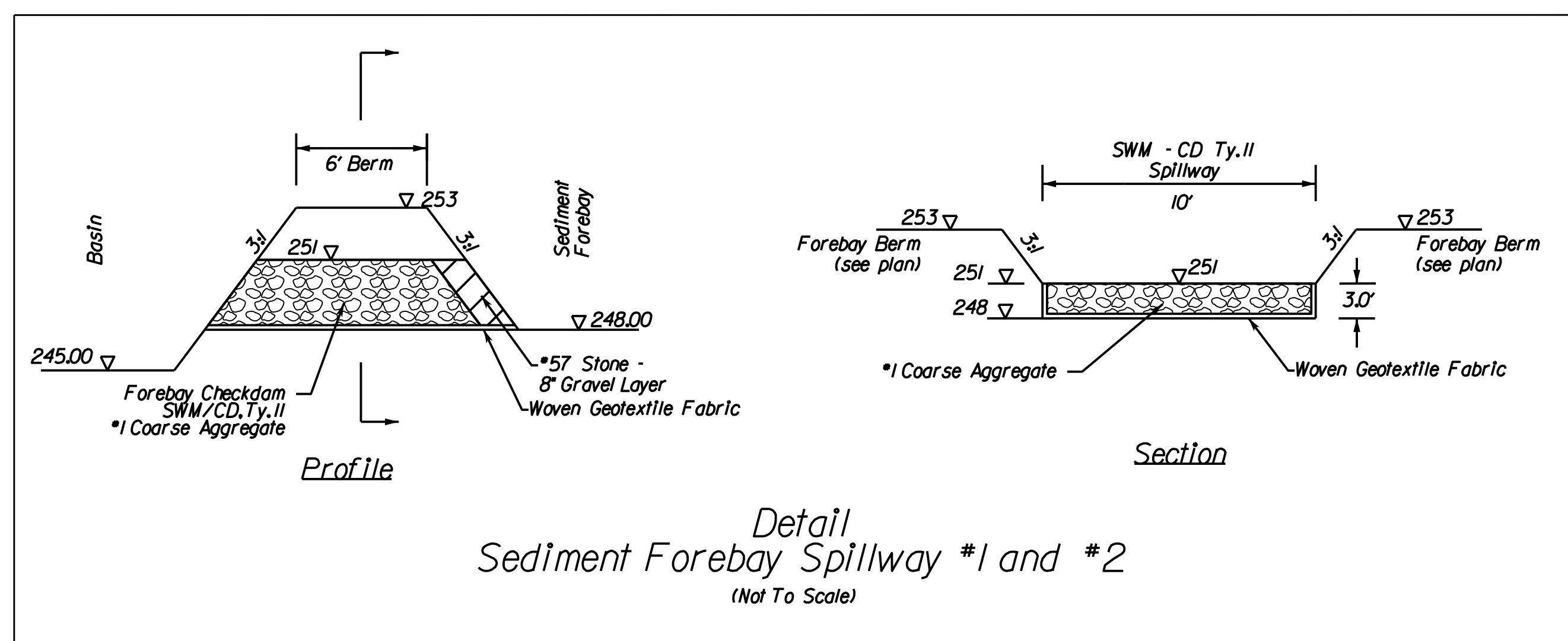
STORMWATER MANAGEMENT (SWM) DETAILS

DEBRIS RACK, METAL PLATE, WATER QUALITY ORIFICE, CONCRETE CRADLE (FOR SWM DRAINAGE STRUCTURES, SWM RISER PIPES AND SWM DAMS)
 VIRGINIA DEPARTMENT OF TRANSPORTATION

SPECIFICATION REFERENCE	REV.
302	3/03
	116.05

PRINCE WILLIAM COUNTY STORMWATER MANAGEMENT FACT SHEET		
		Date 6/21/2021
SWM FACILITY INFORMATION	DESIGN INFORMATION (*)	MISCELLANEOUS
Basin Name PL34 - BMP 1	Were hydrologic & hydraulic models developed <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Is additional storage capacity necessary to correct an existing problem <input type="checkbox"/> Y <input checked="" type="checkbox"/> N
Subbasin # 020700100504	(a) Hydrologic Models HEC-1 TR-20 (b) Hydraulic Models HEC-2 WSP-2	Does the facility incorporate BMP structural controls <input checked="" type="checkbox"/> Y <input type="checkbox"/> N
Stream Name Broad Run	Other Pondpack Other Pondpack	If no, does the facility regulate the 2 - yr storm <input type="checkbox"/> Y <input checked="" type="checkbox"/> N
Drainage Area (acres) 37.04	Method used to develop hydrographs SCS Method	Is a description of the operation and maintenance needs of the facility included in the plans <input type="checkbox"/> Y <input checked="" type="checkbox"/> N
DRAINING TO THE FACILITY	Hydrographs routing methodology SCS Method	Back up data location: plan <input checked="" type="checkbox"/> sheets 1Q(4)-1Q(11)
Avg. Basin Slope (ft/ft) 3:1	Reservoir routing methodology SCS Method	report <input checked="" type="checkbox"/> pages Section 5
Type of Facility: Retention Basin II	If the facility was not modeled, were Elevation - Discharge - Storage tables Developed <input type="checkbox"/> Yes <input type="checkbox"/> No	SWM Bond Estimates (\$) N/A
(a) Dry pond <input type="checkbox"/>	Outlet structure type Riser	TO BE COMPLETED BY COUNTY STAFF
(b) Wet pond <input checked="" type="checkbox"/>	Emergency spillway type Vegetated	Facility # _____
(c) Infiltration trench <input type="checkbox"/>	Were Elev. - Disch. Tables for the emergency spillway developed <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Upstream POI _____
(d) Parking lot storage <input type="checkbox"/>	Dam height (ft) 8.90 Invert Elev UPST 244.50 DWNST 244.10	Downstream POI _____
(e) Underground storage <input type="checkbox"/>	Rainfall Depth (Inches) 2 - yr 3.00 , 10 - yr 4.59 , 100 - yr 7.87	Do the County H & H models need to be updated <input type="checkbox"/> Yes <input type="checkbox"/> No
(f) Porous pavement <input type="checkbox"/>	Rainfall Duration (hrs) 24 , Rainfall Distribution Type II	Model updated <input type="checkbox"/> / <input type="checkbox"/> / <input type="checkbox"/>
(g) Grass swales <input type="checkbox"/>	Exist Peak Inflows (cfs) 2 - yr 185.14 , 10 - yr 342.95 , 100 - yr 677.51	Fac. Accepted by DPW _____
(h) Land cover control <input type="checkbox"/>	Devlp Peak Inflows (cfs) 2 - yr 69.00 , 10 - yr 120.67 , 100 - yr 226.68	DPW Inspector _____
(i) Other <input type="checkbox"/>	Devlp Peak Outflow (cfs) 2 - yr 1.68 , 10 - yr 24.34 , 100 - yr 142.59	DPW Inspector _____
Is the Facility ON - SITE <input checked="" type="checkbox"/>	Water Surface Elev. (ft) 2 - yr 250.21 , 10 - yr 250.89 , 100 - yr 251.98	
Is the Facility OFF - SITE <input type="checkbox"/>	Reservoir Storage (ac - ft) 2 - yr 7.45 , 10 - yr 8.99 , 100 - yr 11.62	
PWC File # N/A	Surface Area (acres) 2 - yr 2.24 , 10 - yr 2.33 , 100 - yr 2.48	
Development Name N/A	Normal Pool - Elevation (ft) 248.00 Storage (ac - ft) 3.01 , Area (ac) 1.30	
GPIN N/A	BMP - Elevation (ft) 248.00 Storage (ac - ft) 3.01 , Area (ac) 1.30	
Magisterial District Brentsville		
Was a Floodplain Study Prepared Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>		
If yes, File # _____		
Facility Designed by: Rinker Design Associates (Engr. Firm)		
	*For facilities type (a) and (b). For other types, provide rainfall (Intensities) data, storage, volume, and discharges, if applicable.	

Adopted June 17, 2014 Exhibit 15 Effective July 1, 2014



- NOTES:
- As-Built Drawing of Stormwater Management Facilities. The Contractor shall provide As-Built drawings of all stormwater management facilities. The As-Built drawings shall show the actual finished ground contours, outlet structure dimensions and elevations, etc. as they exist at the completion of the project. These drawings shall be signed and sealed by the Licensed Professional Engineer or Land Surveyor registered in the State of Virginia. All costs shall be included under Construction Surveying.
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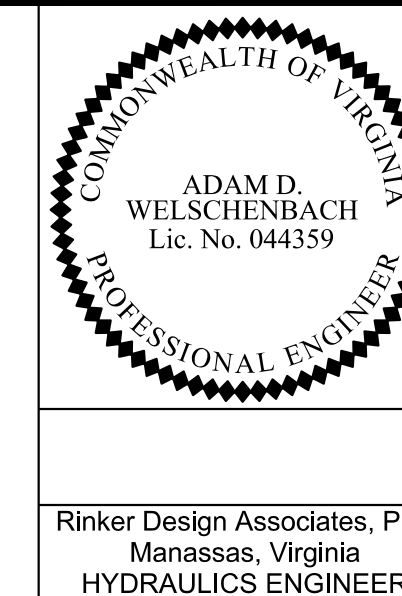
VDOT PROJECT 6234-076-266	SHEET NO. 10(7)
PWC PROJECT SPR2020-00383 S03	

Office Locations: Manassas, VA; Fairfax, VA; Falls Church, VA; Herndon, VA; Reston, VA; Washington, DC
 Design Associates, P.C.
 Civil Engineering - Surveying - Land Planning
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 7/1/2021

PROJECT MANAGER PWC_DOT: Mary Ankers (703) 792-4228
SURVEYED BY, DATE Rinker Design Associates, P.C. (703) 368-7373, April 2020
DESIGN BY Rinker Design Associates, Mark Gunn, P.E. (703) 368-7373
SUBSURFACE UTILITY BY, DATE Accurmark (703) 635-3060, May 2020

STORMWATER MANAGEMENT FACILITY PLAN AND DETAIL

PL34-BMP-1 PROFILE VIEW
RETENTION II FACILITY



Rinker Design Associates, P.C.
Manassas, Virginia
HYDRAULICS ENGINEER

REVISED	STATE	ROUTE	STATE	PROJECT	SHEET NO.
NDC04	VA.	621		6234-076-266, C-501, RW-201	10(B)

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

04 Revised notes and checklist for BMP-1.

DETENTION, RETENTION, and IMPOUNDMENT BMPs APPENDIX 3B

Design and Plan Review Checklist

Page 1 of 7

Applicant: VDOT Phone No.: (703) 259-0244
Designer: Rinker Design Associates Phone No.: (703) 368-7373
Project Name: Prince William Parkway Interchange at Realigned Balls Ford Road
Location: Prince William County
Type of Facility and Identification No.: Retention Basin II PL34-BMP 1

Plan status: approved not approved
Legend: T - Complete
Inc. - Incomplete/Incorrect
N/A - Not Applicable

I. SUPPORTING DATA

Narrative describing stormwater management strategy including all assumptions made in the design.

A. Drainage Area Map

- Site and drainage area boundaries
- Off-site drainage areas
- Pre- and post-developed land uses with corresponding acreage
- Pre- and post-developed time of concentration flow paths
- Existing and proposed topographic features
- Drainage area appropriate for BMP

B. Soils Investigation

- Soils map with site and drainage area outlined
- Geotechnical report with recommendations and earthwork specifications
- Boring locations
 - N/A Borrow area
 - Basin pool area
 - Embankment area: centerline principal spillway, emergency spillway, abutments
- Boring logs with Unified Soils Classifications, soil descriptions, depth to seasonal high groundwater table, depth to bedrock, etc.
- Compaction requirements specified
- N/A Additional geophysical investigation and recommendations in Karst environment

3B - 1

DETENTION, RETENTION, and IMPOUNDMENT BMPs APPENDIX 3B

Design and Plan Review Checklist

Page 2 of 7

II. COMPUTATIONS

A. Hydrology

- Runoff curve number determinations: pre- and post-developed conditions, with worksheets.
- Time of concentration: pre- and post-developed conditions, with worksheets.
- Hydrograph generation: pre- and post-developed condition for appropriate design and safety storms (SCS methods or modified rational-critical storm duration method)

B. Hydraulics

- Specify assumptions and coefficients used.
- Stage-storage table and curve
- Riser structure and barrel
 - Weir/orifice control analysis for riser structure discharge openings
 - Weir/orifice control analysis for riser crest
 - Barrel: inlet/outlet control analysis
 - Riser/Outlet Structure flotation analysis (factor of safety = 1.25 min.).
 - N/A Anti-seep collar or filter diaphragm design.
 - Outlet protection per VE&SCH Std. & Spec. 3.18.
 - Provisions for use as a temporary sediment basin riser with clean out schedule & instructions for conversion to a permanent facility.
- Emergency spillway adequacy/capacity analysis with required embankment freeboard.
- Stage - discharge table and curve (provide equations & cite references).
- Storm drainage & hydraulic grade line calculations.
- Reservoir routing of post-development hydrographs for appropriate design storms (2-yr., 10-yr., or as required by watershed conditions) & safety storms (100-yr. or as required).

C. Downstream impacts

- N/A Danger reach study.
- N/A 100 year floodplain impacts.
- "Adequate channel" calculations for receiving channel
- N/A Provide downstream hydrographs at critical study points.
- Storm drainage plans for site areas not draining to BMP
 - Safe conveyance - MS-19
 - Areas compensated for in water quality performance-based criteria calculations

3B - 2

NOTES:

- As-Built Drawing of Stormwater Management Facilities. The Contractor shall provide As-Built drawings of all stormwater management facilities. The As-Built drawings shall show the actual finished ground contours, outlet structure dimensions and elevations, etc. as they exist at the completion of the project. These drawings shall be signed and sealed by the Licensed Professional Engineer or Land Surveyor registered in the State of Virginia. All costs shall be included under Construction Surveying.
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- When installing the steps and trash rack to the control structure, the contractor shall ensure that the steps and trash rack hinged access door are oriented to the embankment side of the control structure, and are to the extent possible, in direct alignment with each other.

VDOT PROJECT 6234-076-266 PNC PROJECT SPR2020-00383 S03	SHEET NO. 10(B)
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Office Locations
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Transportation - Right of Way Services

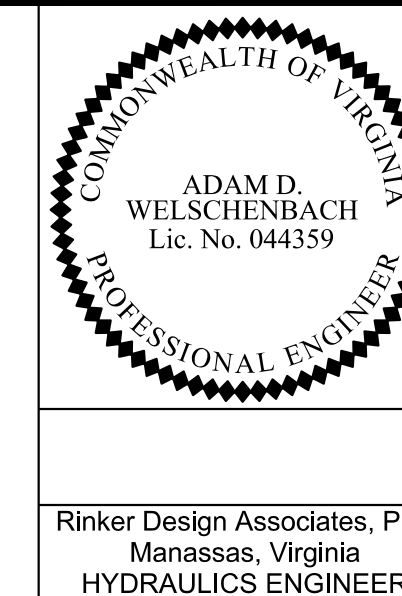


NOVA DISTRICT DESIGN UNIT

PROJECT MANAGER PWC_DOT, Mary Ankers (703) 792-4228
SURVEYED BY, DATE Rinker Design Associates, P.C. (703) 369-7373, April 2020
DESIGN BY Rinker Design Associates, Mark Gunn, P.E. (703) 368-7373
SUBSURFACE UTILITY BY, DATE Accumark (703) 635-3060, May 2020

STORMWATER MANAGEMENT FACILITY PLAN AND DETAIL

PL34-BMP-I DETAIL
RETENTION II FACILITY



Rinker Design Associates, P.C.
Manassas, Virginia
HYDRAULICS ENGINEER

REVISED	STATE	ROUTE	STATE	PROJECT	SHEET NO.
NDC04	VA.	621		6234-076-266, C-501, RW-201	1099

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

04 Revised notes for BMP-I.

DETENTION, RETENTION, and IMPOUNDMENT BMPs APPENDIX 3B

Design and Plan Review Checklist

Page 3 of 7

D. Water Quality

- Impervious cover tabulation
- N/A Technology-based criteria: proper selection of BMP based on impervious cover
- Performance-based criteria: pre- and post-developed pollutant load and pollutant removal requirement calculations (provide worksheets)
- Water quality volume for retention basin I, II, or III permanent pool
- N/A Water quality volume for ext. detention and ext. detention enhanced with drawdown calculations
- Proper surface area/depth allocations for permanent pool/shallow marsh/constructed wetland
- N/A Constructed stormwater wetland / shallow marsh
 - N/A Adequate drainage area and/or base flow
 - N/A Adequate pool volume
 - N/A Adequate surface area
 - N/A Allocation of surface area to depth zones
 - N/A Maximum ponding depth over pool surface specified

III. PLAN REQUIREMENTS

A. General Items

- Plan view drawn at 1"=50' or less (40', 30', etc.)
- North arrow
- Legend
- Location plan and vicinity map
- Property lines
- Existing & proposed contours (2' contour interval min.)
- Existing features & proposed improvements (including utilities and protective measures)
- Locations of test borings
- Earthwork specifications
- Construction sequence for SWM basin and E&S controls
- Temporary erosion & sediment control measures
- Conveyance of base flow during construction
- Temporary and permanent stabilization requirements
 - Emergency spillway
 - Basin side slopes

3B - 3

DETENTION, RETENTION, and IMPOUNDMENT BMPs APPENDIX 3B

Design and Plan Review Checklist

Page 4 of 7

- Basin bottom
 - N/A Delineation of FEMA 100 year floodplain
 - Inc. Plans sealed by a qualified licensed professional
- #### B. BMP Plan Views
- Dimensions of basin features: perm. Pool, sediment forebay, embankment, etc.
 - Location of all conveyance system outfalls into basin
 - Proper orientation to avoid short circuiting
 - Outlet protection per VE&SCH
 - Top of bank & basin bottom elevations
 - Elevations of permanent pool, water quality volume and max. design water surface elevations for all appropriate design storms and safety storms
 - Side slope (H:V) of basin storage area and embankment (upstream and downstream slopes)
 - Proper length-to-width ratio as specified in BMP design criteria
 - N/A **Pervious** low flow channel
 - Sediment forebay
 - Basin bottom slope
 - Maintenance access to sediment forebay, riser structure, and one side of the basin ponding area
 - Peripheral ledge for safety
 - Aquatic Bench
 - N/A Shoreline protection
 - Safety fence
 - Riser and barrel materials and dimensions labeled
 - N/A Constructed stormwater wetland / shallow marsh
 - N/A Basin liner specifications
 - N/A Pool depth zones identified on plan
 - N/A Pool geometry - wet/dry weather flow path

3B - 4

NOTES:

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VDOT PROJECT	PINC PROJECT	SHEET NO.
6234-076-266	SPR2020-00383 S03	1099

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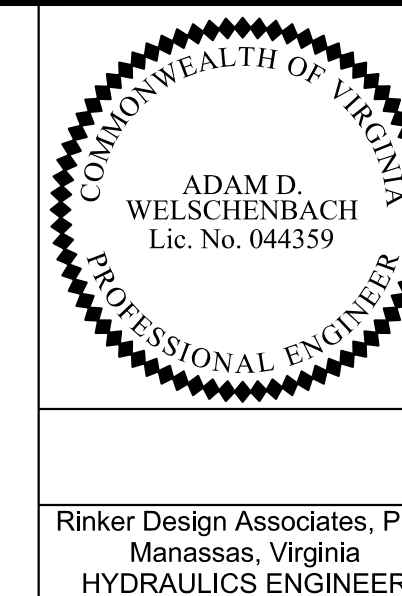


NOVA DISTRICT DESIGN UNIT

PROJECT MANAGER PWC_DOT:Mary Ankers (703) 792-4228
SURVEYED BY, DATE Rinker Design Associates, P.C. (703) 369-7373, April 2020
DESIGN BY Rinker Design Associates, Mark Gunn, P.E. (703) 368-7373
SUBSURFACE UTILITY BY, DATE Accurmark (703) 635-3060, May 2020

STORMWATER MANAGEMENT FACILITY PLAN AND DETAIL

PL34-BMP-1 PROFILE VIEW
RETENTION II FACILITY



Rinker Design Associates, P.C.
Manassas, Virginia
HYDRAULICS ENGINEER

REVISED	STATE	ROUTE	STATE	PROJECT	SHEET NO.
NDC04	VA.	621		6234-076-266, C-501, RW-201	101(1)

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

04 Revised notes for BMP-1.

DETENTION, RETENTION, and IMPOUNDMENT BMPs APPENDIX 3B

Design and Plan Review Checklist

Page 5 of 7

C. BMP - Section Views & Related Details

1. Embankment (or dam) and Ponding Areas

- Elevations of permanent pool, water quality volume and max. design water surface elevations for all appropriate design storms and safety storms
- N/A Top of dam elevations- constructed height and settled height (10% settlement).
- Adequate freeboard
- Top width labeled
- Elevation of crest of emergency spillway
- Emergency spillway w/ side slopes labeled.
- N/A Emergency spillway inlet, level, and outlet sections labeled
- N/A Existing ground and proposed improvements profile along center line of embankment
- Existing ground and proposed improvements profile along center line of principal spillway
- Typical grading section through pond including typical side slopes with aquatic bench, safety ledge, shoreline protection, etc.
- Existing ground and proposed improvements along center line of emergency spillway
- N/A Dimensions of zones for zoned embankment

2. Seepage Control

- Impervious lining
- N/A Phreatic line (4:1 slope measured from the principal spillway design high water).
 - a. **Anti-seep Collar**
 - N/A Anti-seep collar (detail reqd..).
 - N/A Size (based upon 15% increase in seepage length).
 - N/A Spacing & location on barrel (at least 2' from pipe joint).
 - b. **Filter Diaphragm**
 - N/A Design certified by a professional geotechnical engineer.

3. Foundation Cut Off Trench or Key Trench

- N/A Materials labeled
- N/A Bottom width (4' min. or greater per geotech. report).
- N/A Side slopes labeled (1:1 max. steepness).
- N/A Depth (4' min. or as specified in geotechnical report)

3B - 5

DETENTION, RETENTION, and IMPOUNDMENT BMPs APPENDIX 3B

Design and Plan Review Checklist

Page 6 of 7

4. Multi Stage Riser and Barrel System

- Materials labeled
- Bedding or cradle details provided
- N/A Gauge & corrugation size for metal pipes specified
- Barrel diameter, inverts, and slope (%) labeled
- Outlet protection per YESCH, Std. & Spec. 3.18, 3.19 w/ filter cloth underlayment
- Crest elevation of riser structure shown
- Inverts and dimensions of control release orifices/weirs shown
- Structure dimensions shown
- Control orifice/weir dimensions shown
- Extended detention orifice protection (detail required for construction)
- Riser trash rack or screen (detail reqd.. for construction).
- Riser anti-vortex device (detail reqd.. for construction).
- Proper riser structure footing.
- Access to riser structure interior for maintenance.
- Basin drain pipe

D. Landscape Plan

- N/A Planting schedule and specifications (transport / storage / installation / maintenance)
- N/A Plant selection for planting zones 1 thru 6
- N/A Preservation measures for existing vegetation
- N/A Top soil / planting soil included in final grading

E. Maintenance Items

- Person or organization responsible for maintenance.
- N/A Maintenance narrative which describes the long-term maintenance requirements of the facility and all components.
- Facility access from public R/W or roadway.
- N/A Maintenance easement.

3B - 6

NOTES:
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VDOT PROJECT	PINC PROJECT	SHEET NO.
6234-076-266	SPR2020-00383 S03	101(1)

Office Locations: Manassas, VA; Fairfax, VA; Falls Church, VA; Herndon, VA; Reston, VA; Washington, DC
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 Transportation • Right-of-Way Services
 Rinker
 LANE
 NOVA DISTRICT DESIGN UNIT
 7/1/2021

LIMITED ACCESS HIGHWAY

PROJECT MANAGER PWC_DOT: Mary Ankers (703) 792-4228
SURVEYED BY, DATE Rinker Design Associates, P.C. (703) 368-7373, April 2020
DESIGN BY Rinker Design Associates, Mark Gunn, PE (703) 368-7373
SUBSURFACE UTILITY BY, DATE Accurmark (703) 635-3060, July 2019

EROSION CONTROL PHASE I

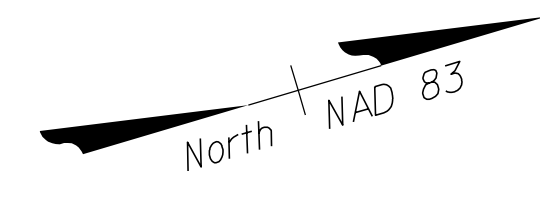
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 ADAM D. WELSCHENBACH
 Lic. No. 044359
 PROFESSIONAL ENGINEER

Rinker Design Associates, P.C.
 Manassas, Virginia
 HYDRAULICS ENGINEER

REVISED	STATE	ROUTE	STATE	PROJECT	SHEET NO.
NDC04	VA.	621		6234-076-266, C-501, RW-201	1S(4/11)

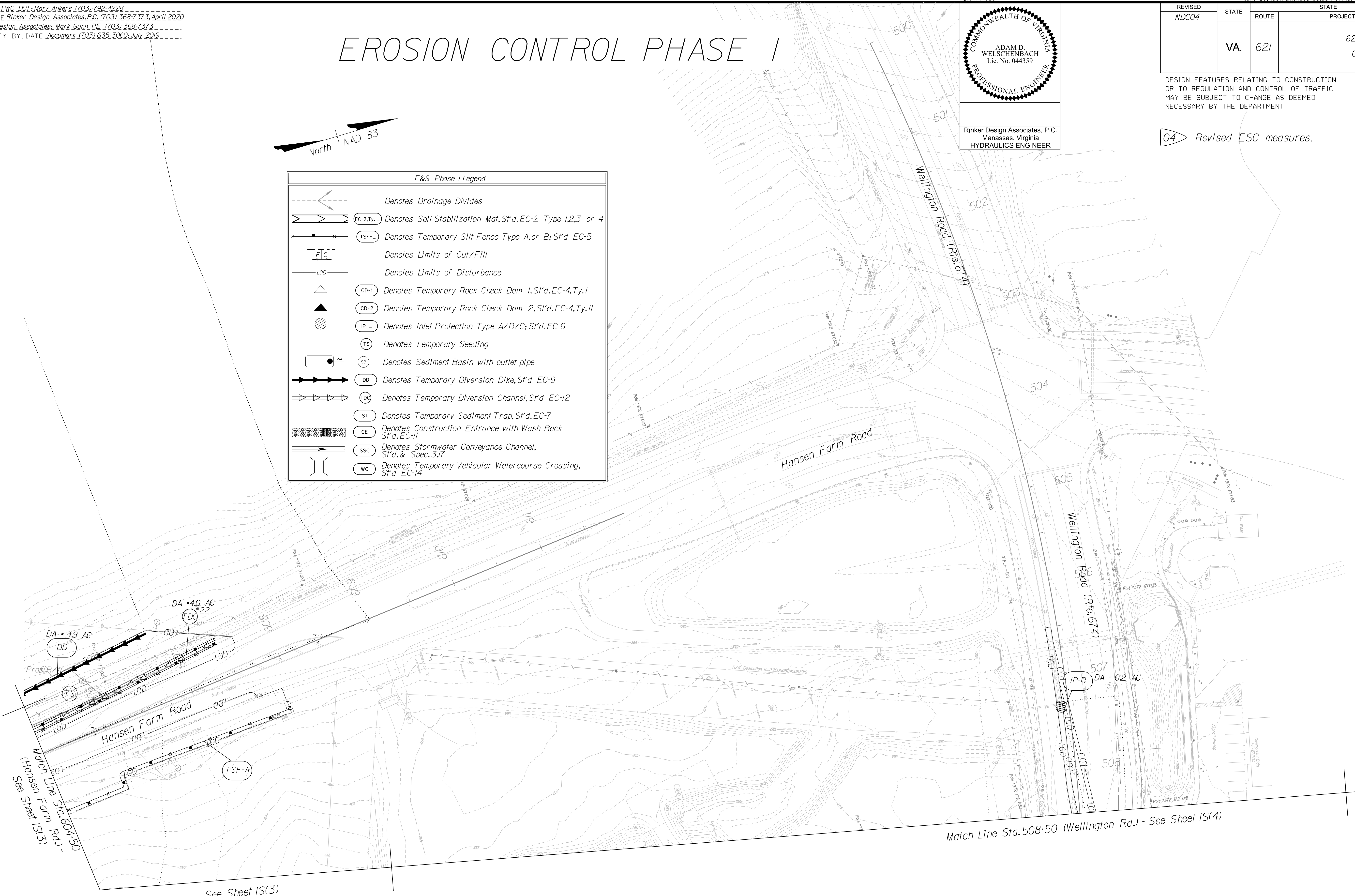
DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT

04 Revised ESC measures.



E&S Phase I Legend

- Denotes Drainage Divides
- EC-2, Ty. Denotes Soil Stabilization Mat, S'd, EC-2 Type 1, 2, 3 or 4
- TSF-- Denotes Temporary Silt Fence Type A, or B; S'd EC-5
- Denotes Limits of Cut/Fill
- Denotes Limits of Disturbance
- Denotes Temporary Rock Check Dam 1, S'd, EC-4, Ty. I
- Denotes Temporary Rock Check Dam 2, S'd, EC-4, Ty. II
- Denotes Inlet Protection Type A/B/C; S'd, EC-6
- Denotes Temporary Seeding
- Denotes Sediment Basin with outlet pipe
- Denotes Temporary Diversion Dike, S'd EC-9
- Denotes Temporary Diversion Channel, S'd EC-12
- Denotes Temporary Sediment Trap, S'd, EC-7
- Denotes Construction Entrance with Wash Rack S'd, EC-11
- Denotes Stormwater Conveyance Channel, S'd & Spec. 317
- Denotes Temporary Vehicular Watercourse Crossing, S'd EC-14



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PROJECT MANAGER PWC_DOT: Mary Ankers (703) 792-4228
SURVEYED BY, DATE Rinker Design Associates, P.C. (703) 368-7373, April 11, 2020
DESIGN BY Rinker Design Associates: Mark Gunn PE (703) 368-7373
SUBSURFACE UTILITY BY, DATE Accurmark (703) 635-3060, July 2019

EROSION CONTROL PHASE 2

COMMONWEALTH OF VIRGINIA
ADAM D. WELSCHENBACH
Lic. No. 044359
PROFESSIONAL ENGINEER

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Manassas, Virginia
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REVISED	STATE	ROUTE	STATE PROJECT	SHEET NO.
NDC04	VA.	621	6234-076-266, C-501, RW-201	17(2)

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

04 Added sheet for Jennell Drive extension.

E&S Phase 2 Legend

- Denotes Drainage Divides
- EC-2, Ty. 1 Denotes Soil Stabilization Mat, S't'd. EC-2 Type 1, 2, 3 or 4
- TSF- Denotes Temporary Silt Fence Type A, or B; S't'd. EC-5
- FC Denotes Limits of Cut/Fill
- LOD Denotes Limits of Disturbance
- CD-1 Denotes Temporary Rock Check Dam 1, S't'd. EC-4, Ty. I
- CD-2 Denotes Temporary Rock Check Dam 2, S't'd. EC-4, Ty. II
- IP- Denotes Inlet Protection Type A/B/C; S't'd. EC-6
- PS Denotes Permanent Seeding
- SB Denotes Sediment Basin with outlet pipe
- DD Denotes Temporary Diversion Dike, S't'd. EC-9
- TDC Denotes Temporary Diversion Channel, S't'd. EC-12
- ST Denotes Temporary Sediment Trap, S't'd. EC-7
- CE Denotes Construction Entrance with Wash Rack S't'd. EC-11



SCALE 0 50' 100'

VDOT PROJECT
6234-076-266
PWC PROJECT
SPR2020-00383 S03

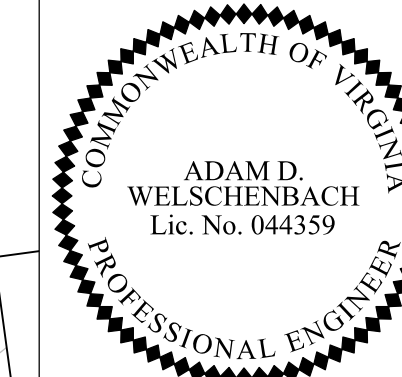
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17(2)

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Match Line Sta. 102+50 (Balls Ford Rd.) - See Sheet 17(3)

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EROSION CONTROL PHASE 2



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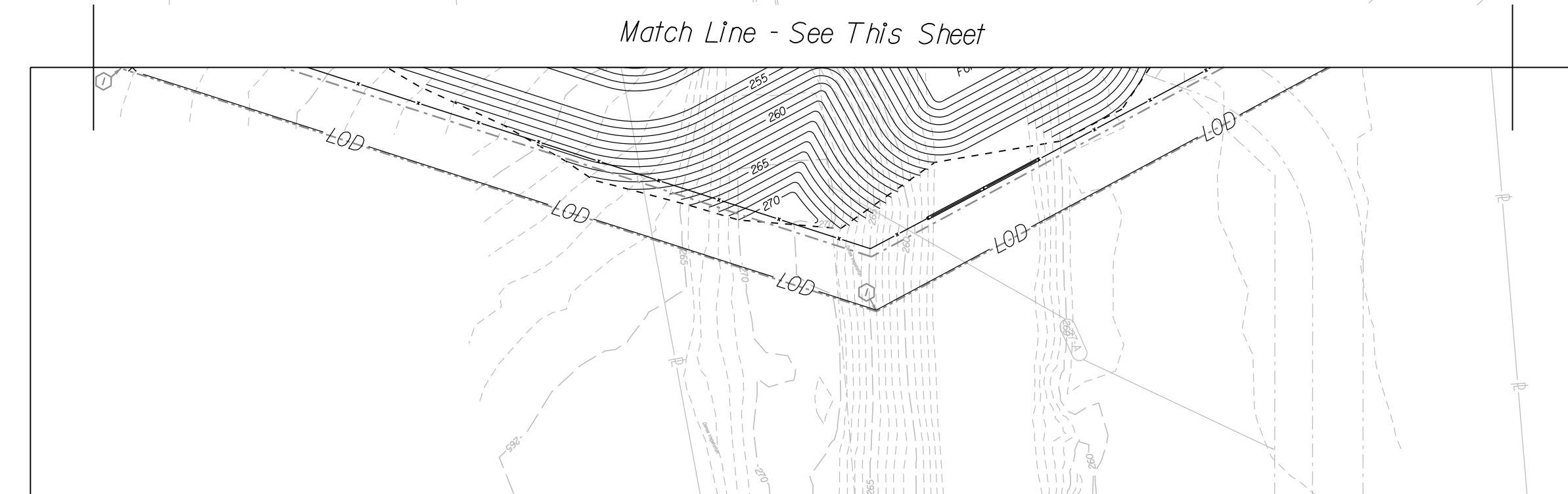
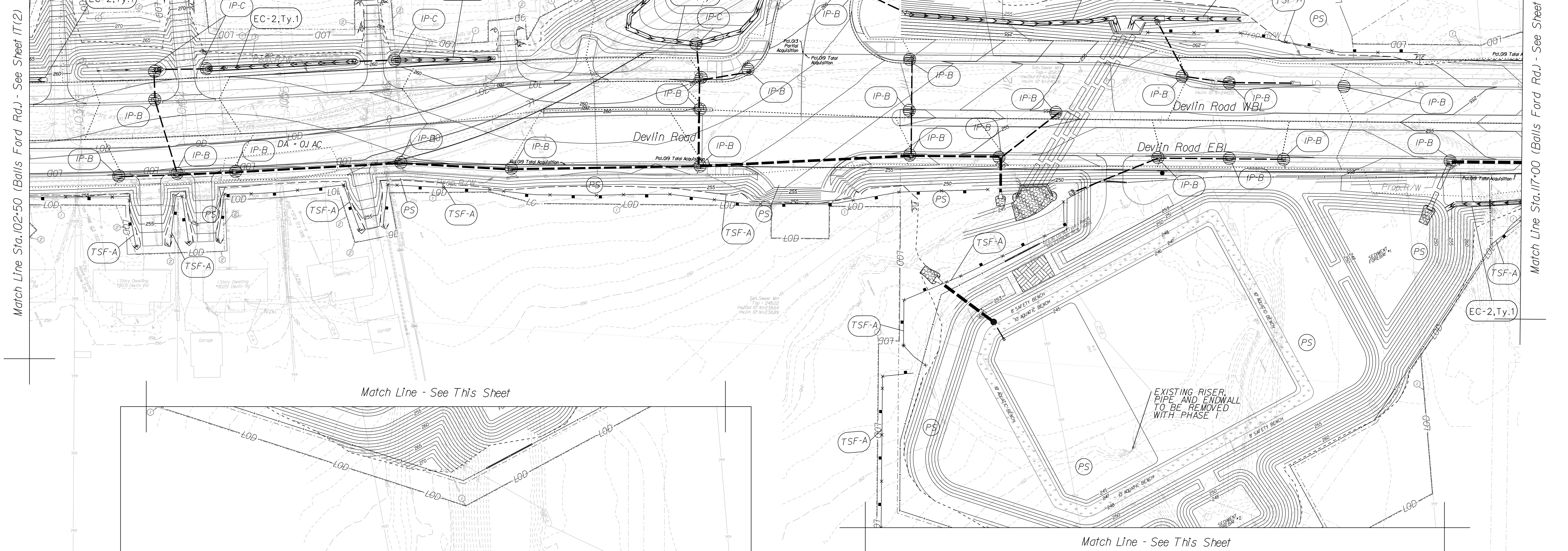
REVISED	STATE	ROUTE	STATE	PROJECT	SHEET NO.
NDC03 NDC04	VA.	621		6234-076-266, C-501, RW-201	17(3)

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

- 03 Revised ESC measures for new pond layout.
- 04 Revised ESC measures.

E&S Phase 2 Legend

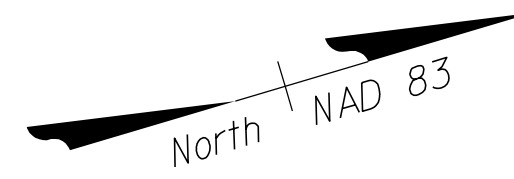
- Denotes Drainage Divides
- EC-2, Ty. 1 Denotes Soil Stabilization Mat, S't'd. EC-2 Type 1, 2, 3 or 4
- TSF-A Denotes Temporary Silt Fence Type A, or B; S't'd. EC-5
- FIC Denotes Limits of Cut/Fill
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- IP- Denotes Inlet Protection Type A/B/C; S't'd. EC-6
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 DESIGN BY Rinker Design Associates: Mark Gunn PE (703) 368-7373
 SUBSURFACE UTILITY BY, DATE AccuMark (703) 635-3060, July 2019

EROSION CONTROL PHASE 2



E&S Phase 2 Legend	
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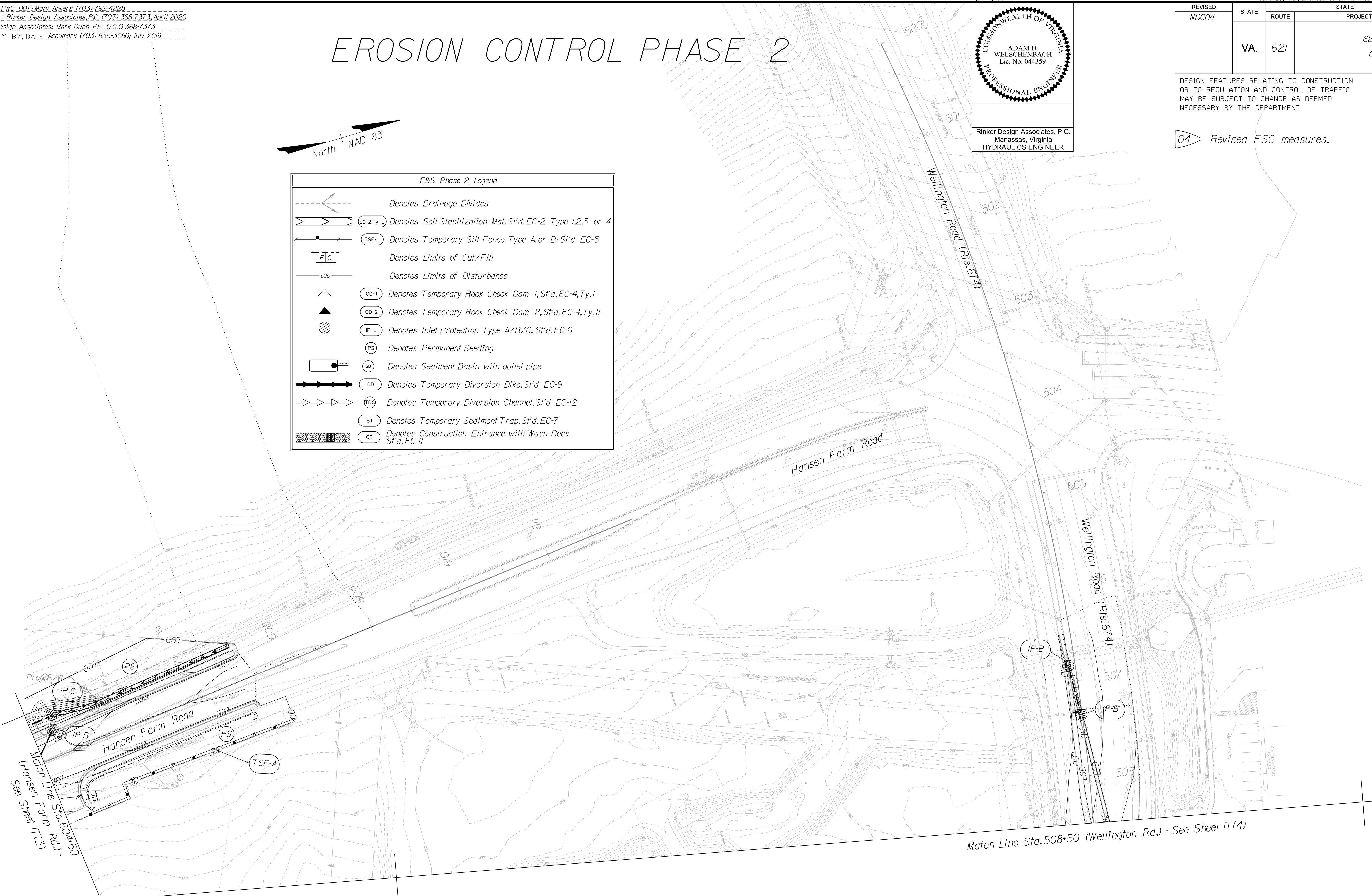
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NDC04	VA.	621		6234-076-266, C-501, RW-201	IT(411)

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

04 Revised ESC measures.



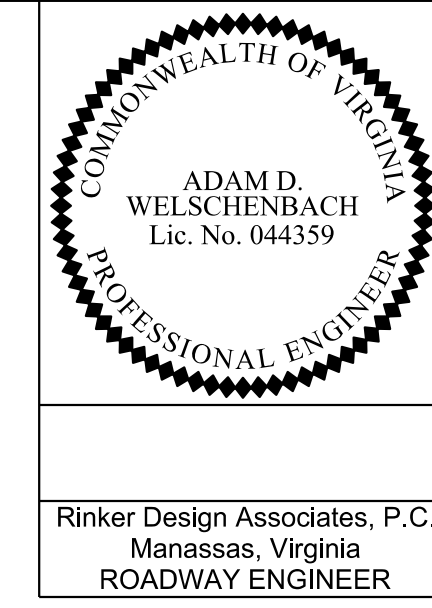
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CG-12 Details

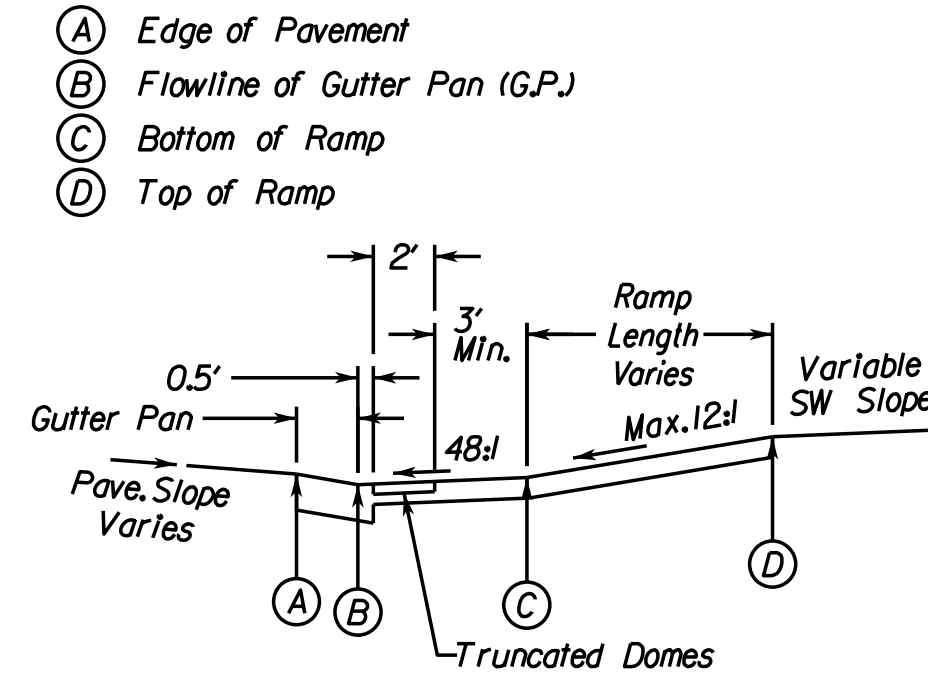


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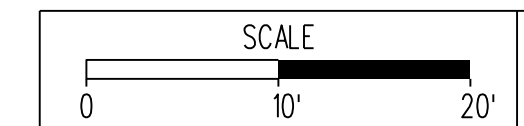
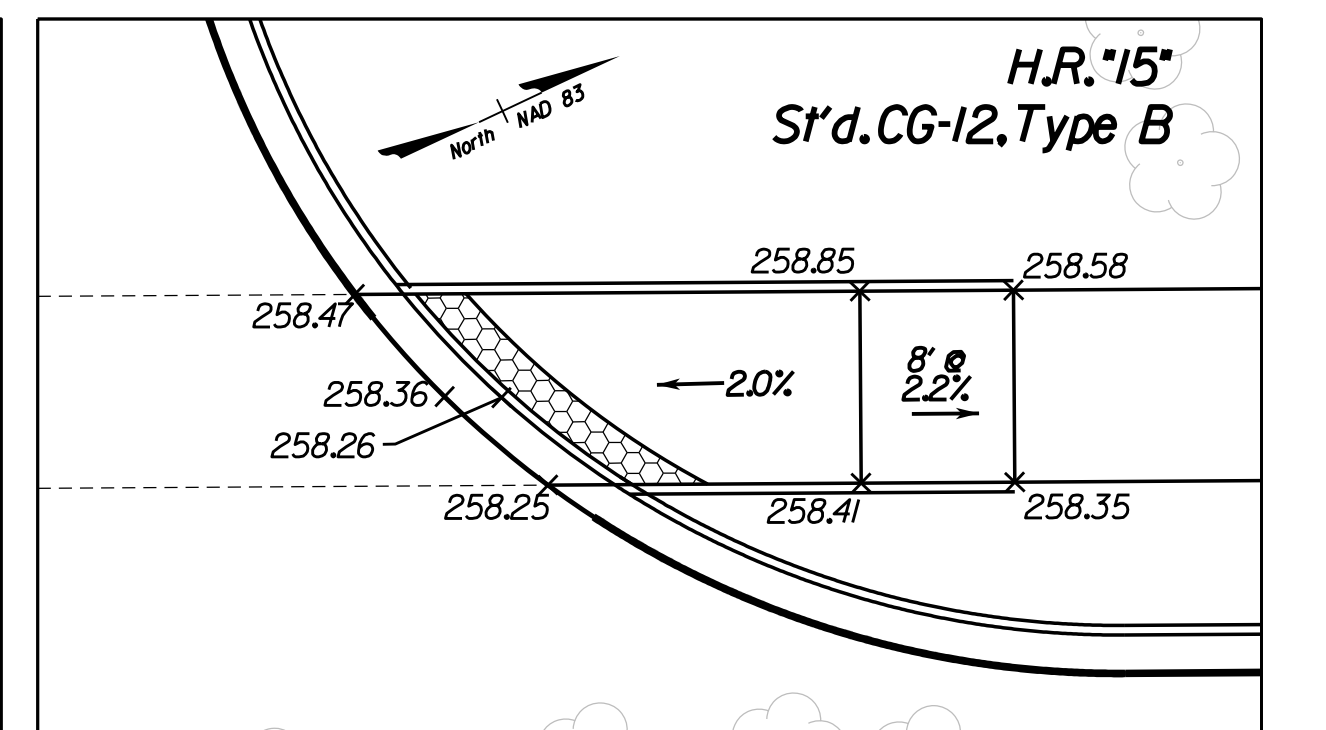
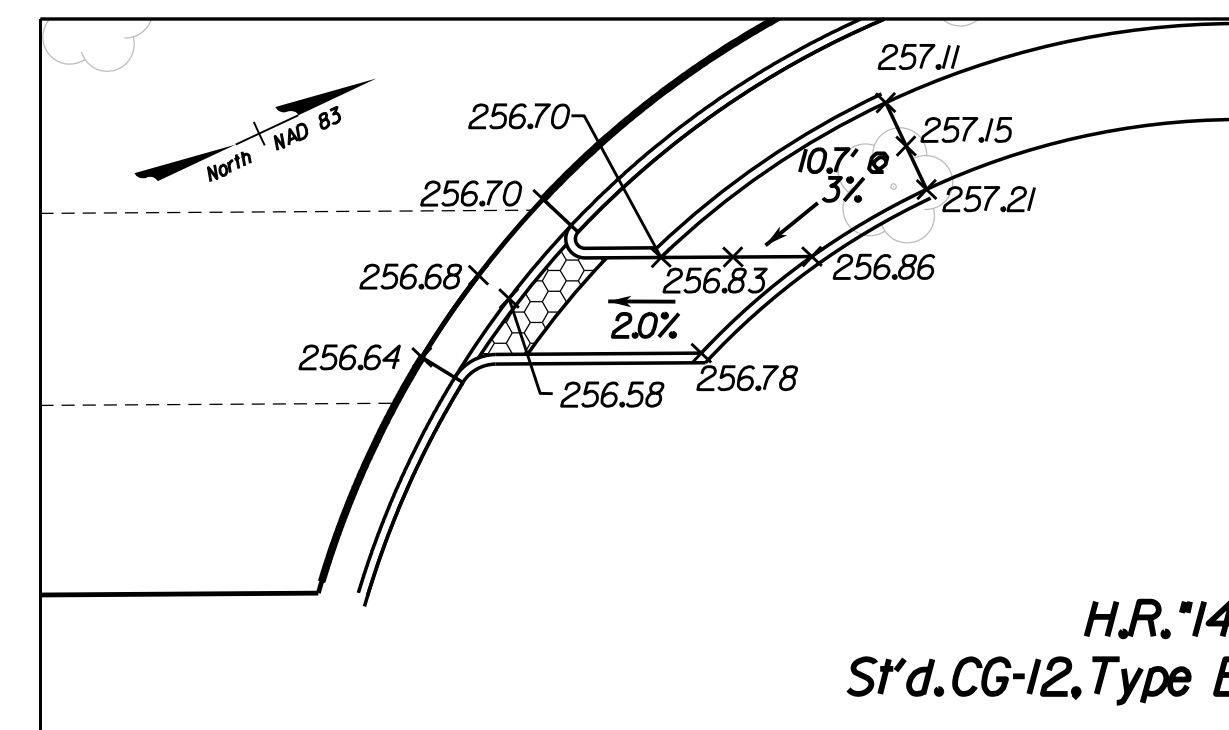
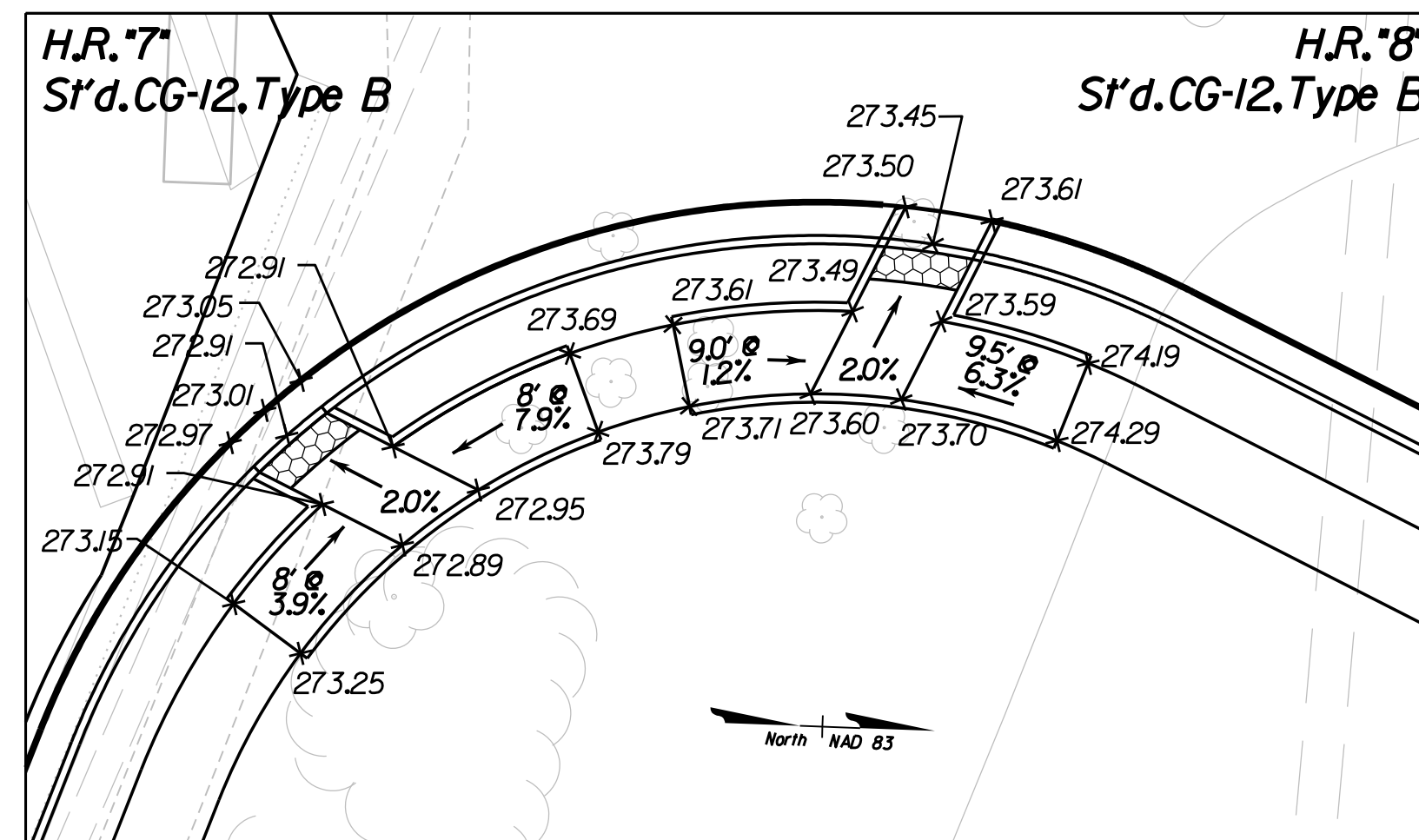
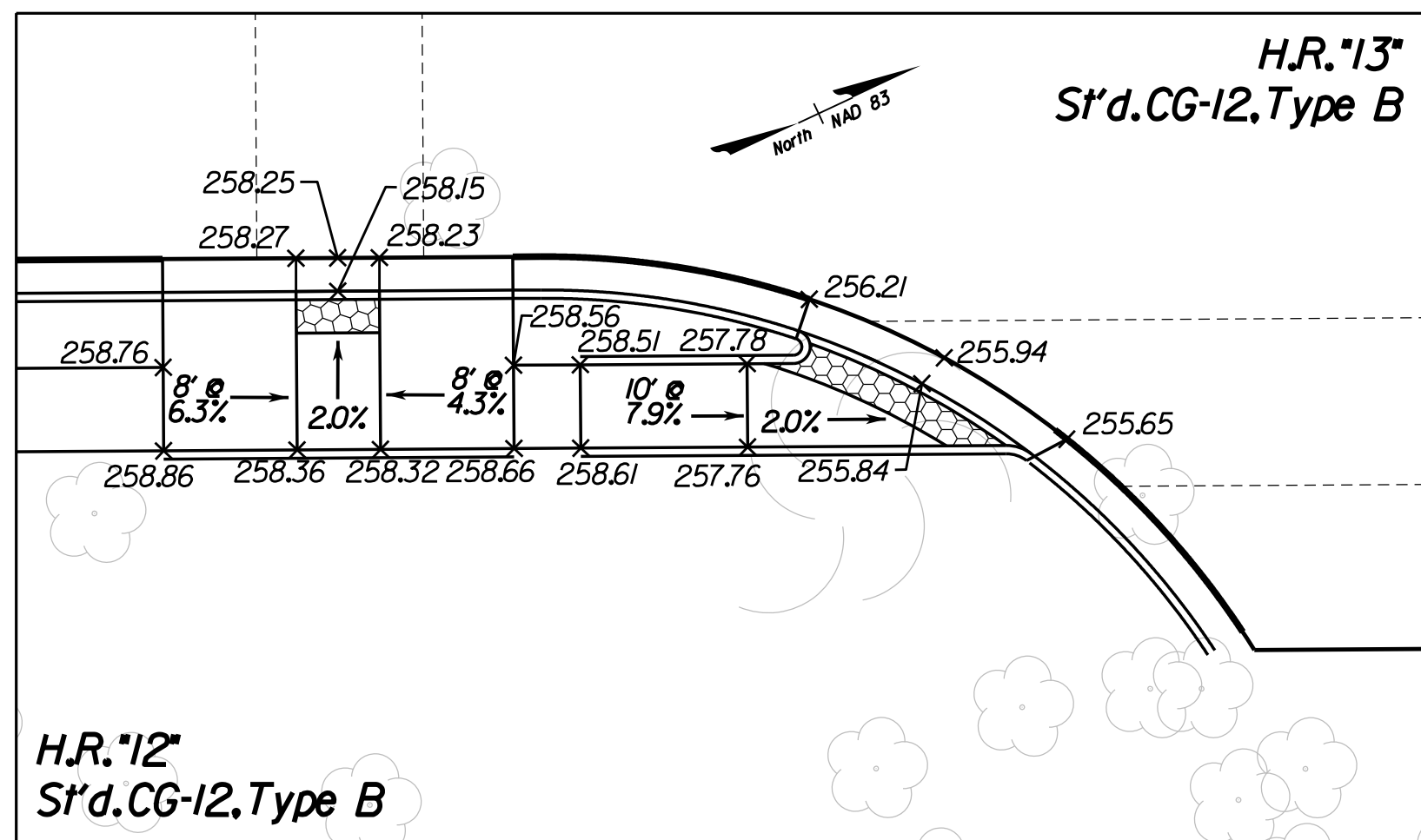
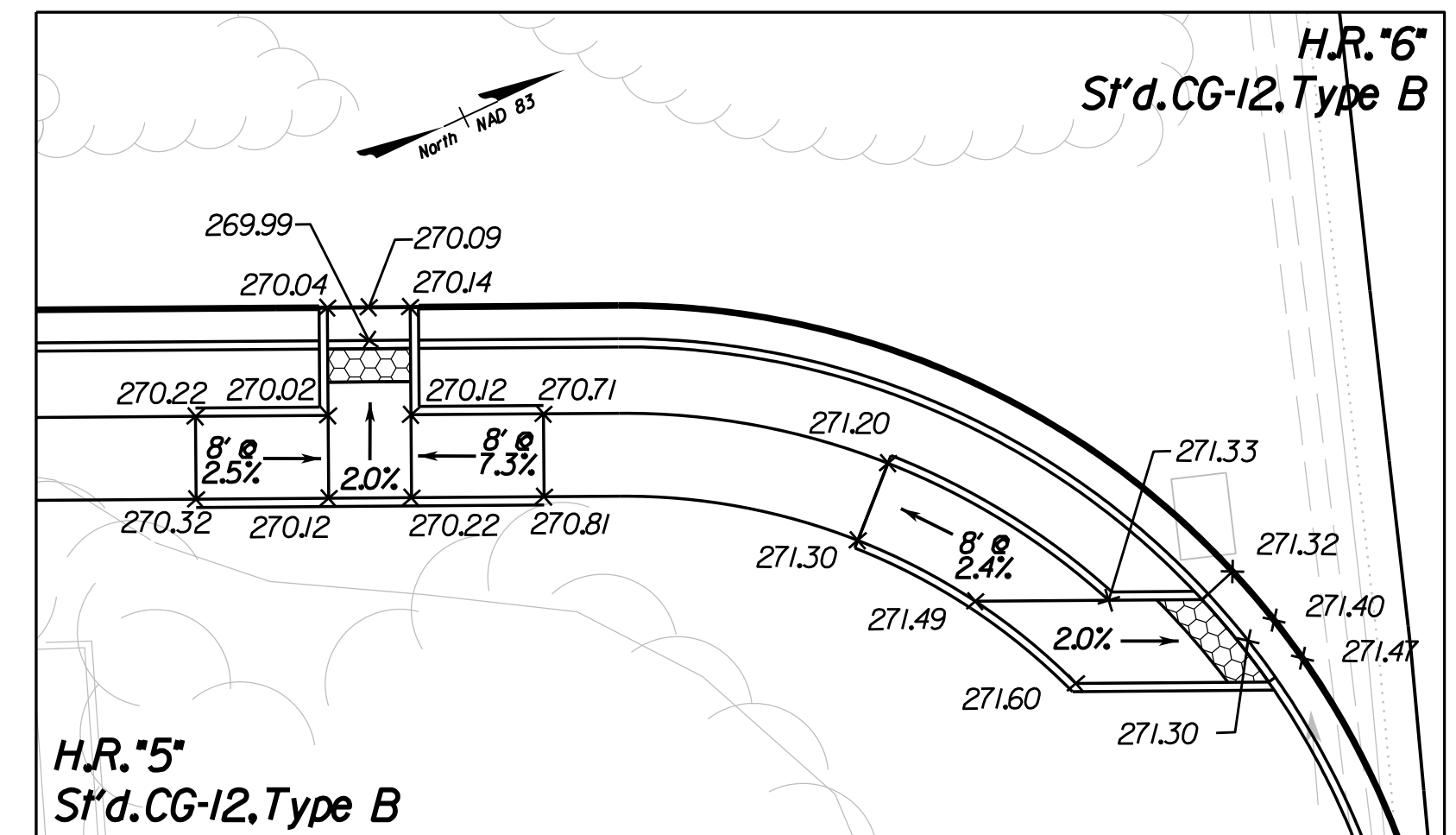
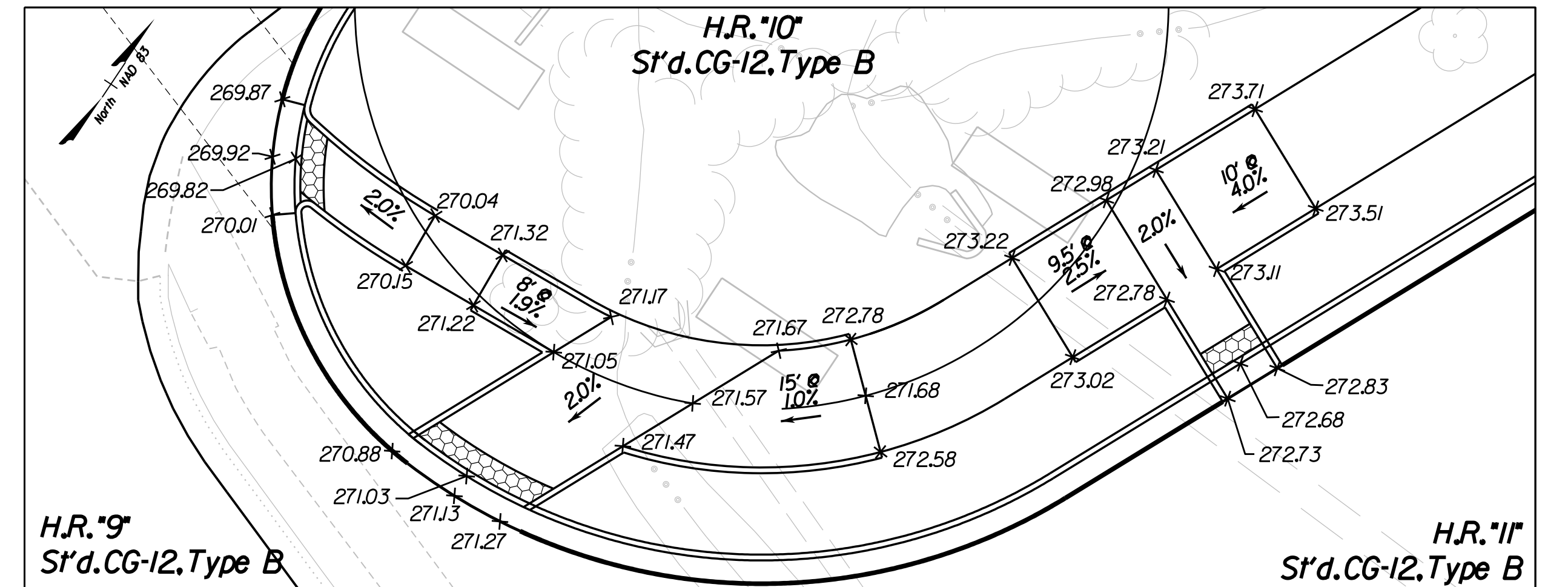
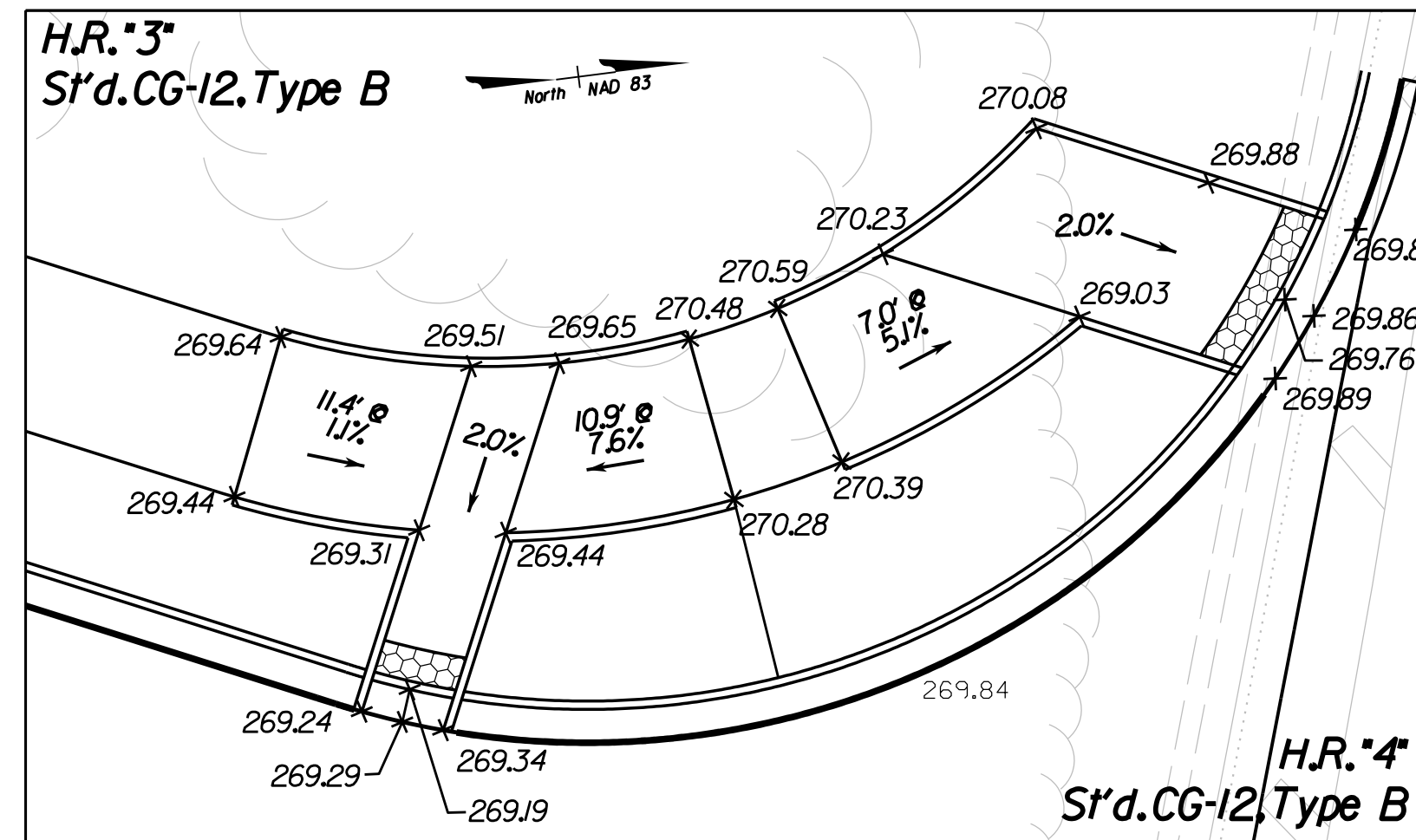
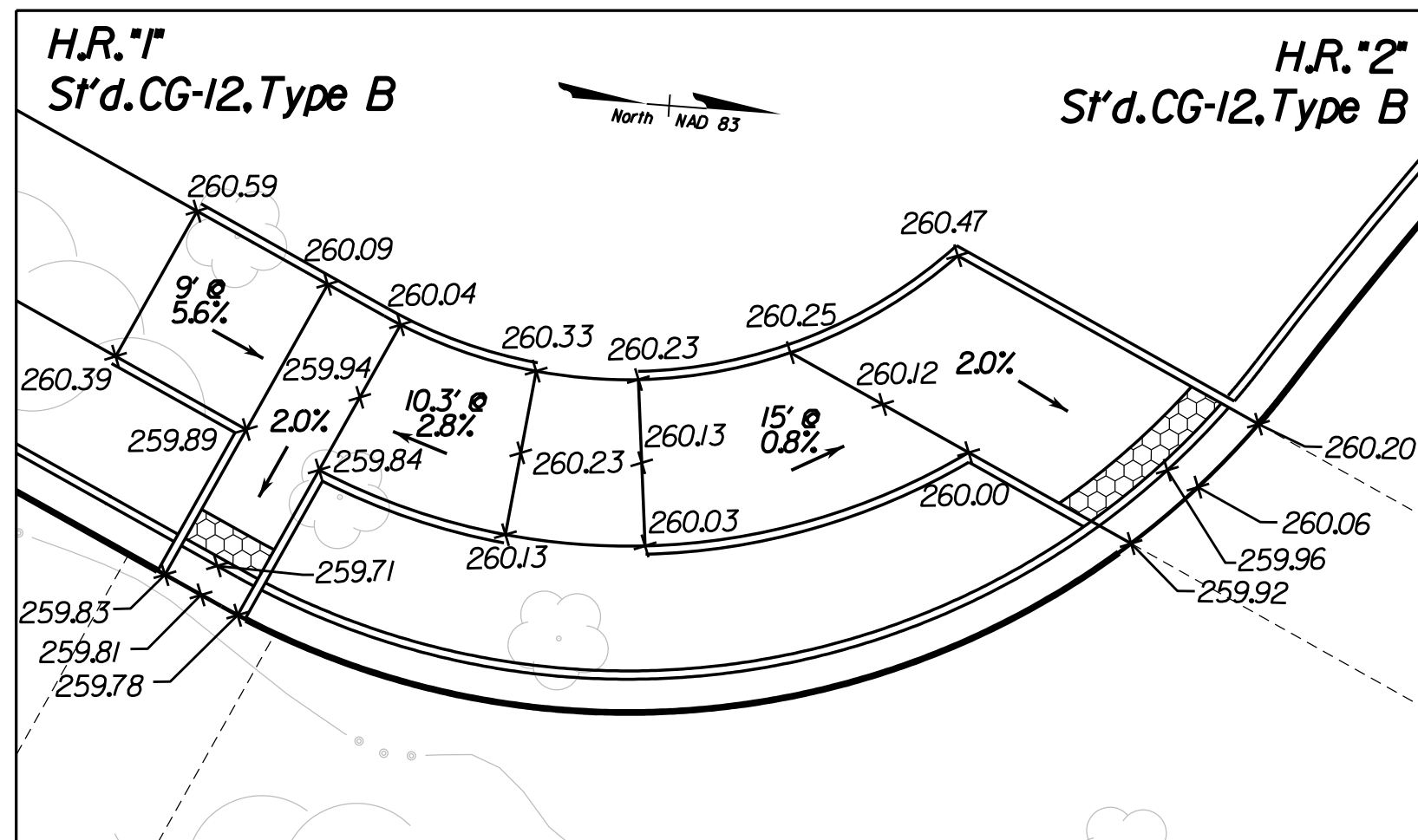
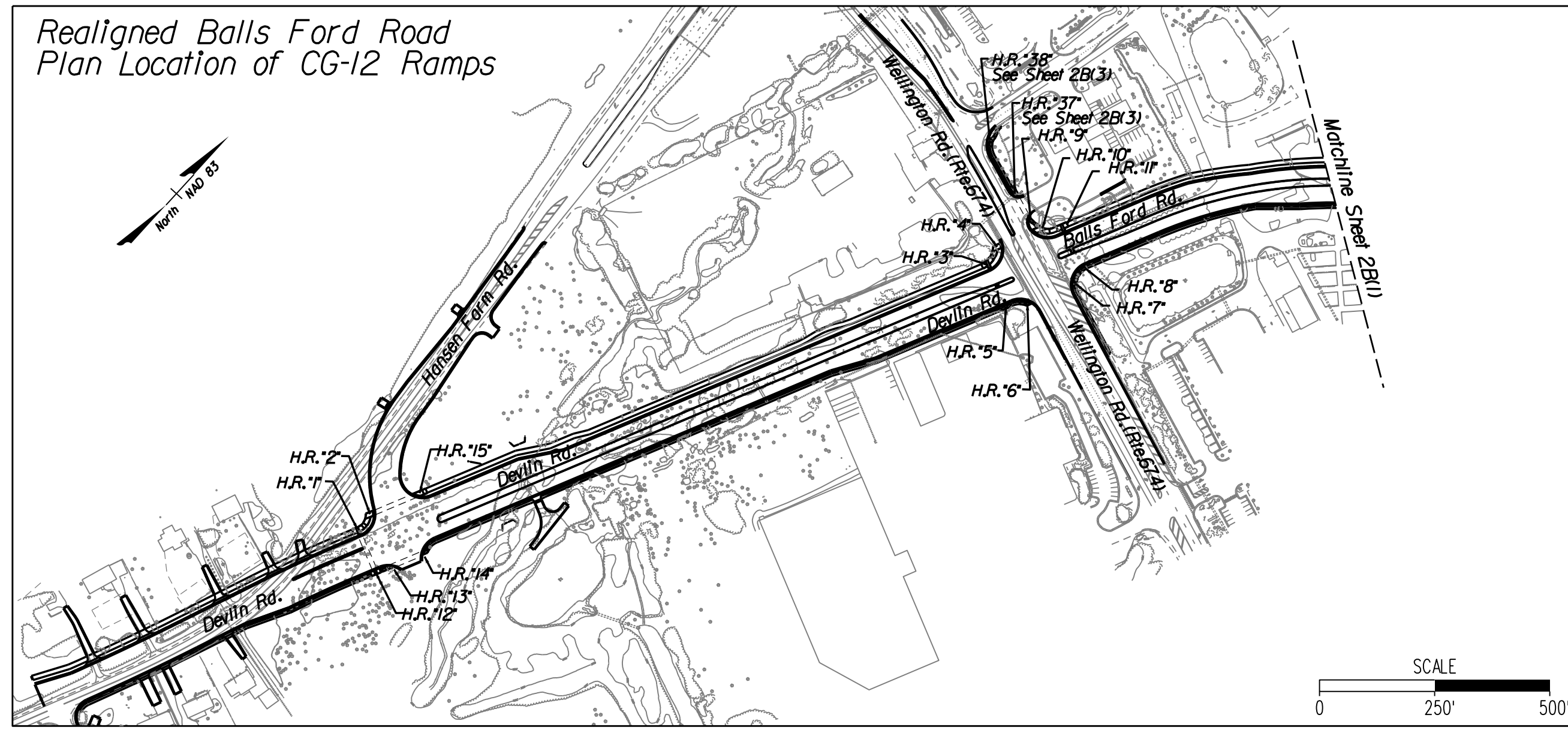
DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT

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Manassas, Virginia
ROADWAY ENGINEER

Typical Curb Ramp Detail

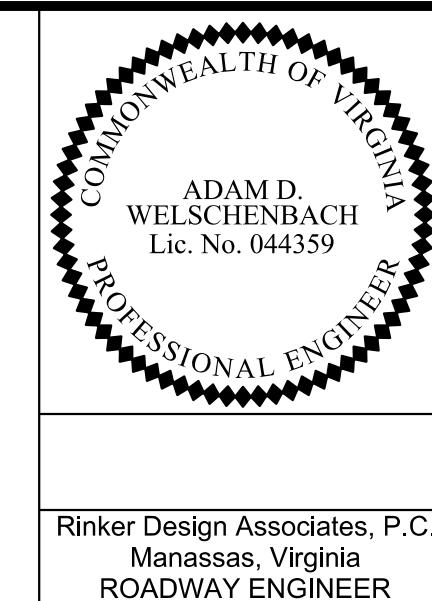


04 Revised to show extended project limits/realignment.



PROJECT MANAGER PWC DOT-Mary Ankers (703)792-4228
 SURVEYED BY, DATE Rinker Design Associates, P.C. (703) 369-7373, April 2020
 DESIGN BY Rinker Design Associates, Mark Gunn, P.E. (703) 368-7373
 SUBSURFACE UTILITY BY, DATE Accurmark (703) 635-3060, May 2020

Curb Ramp Profiles

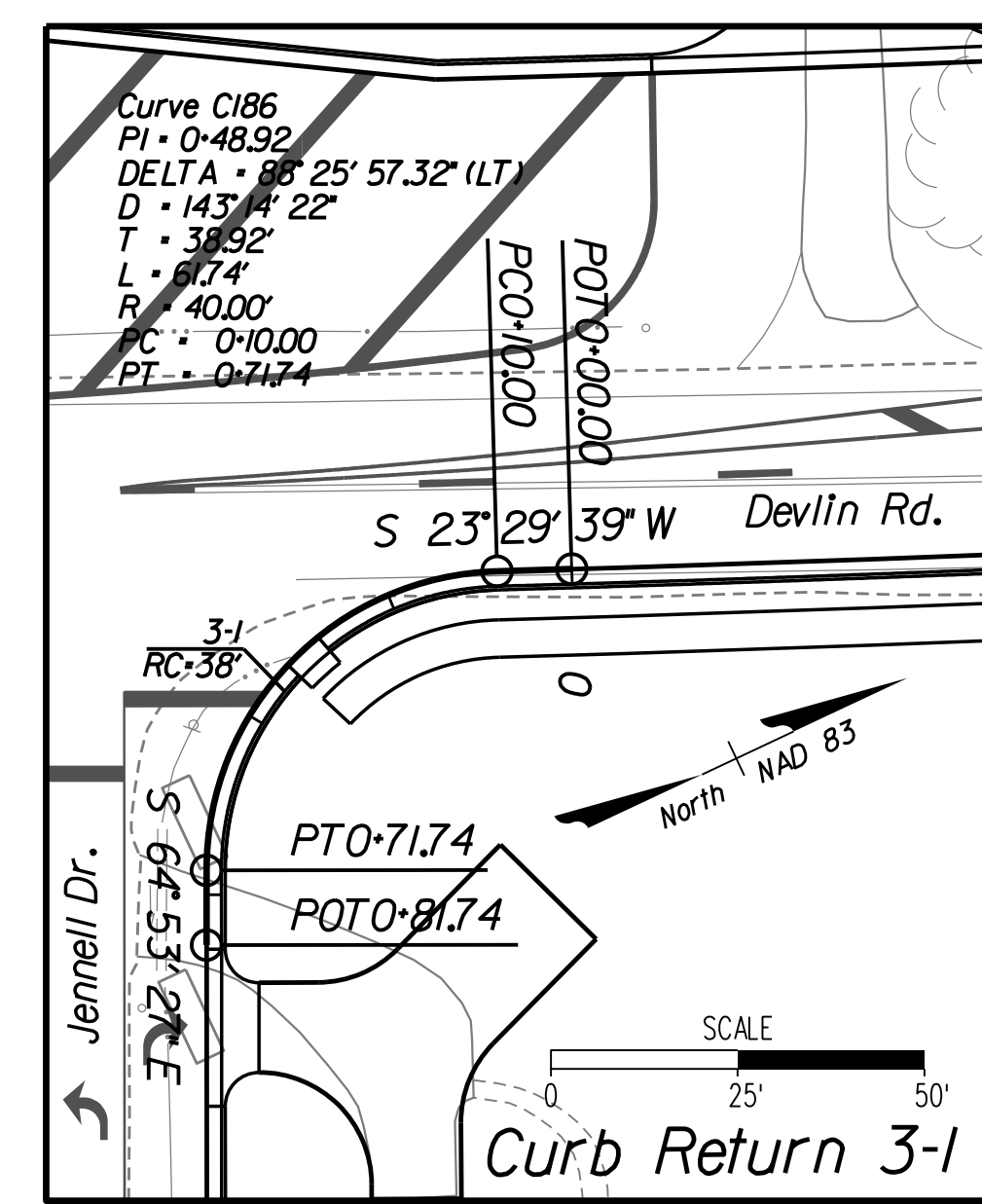
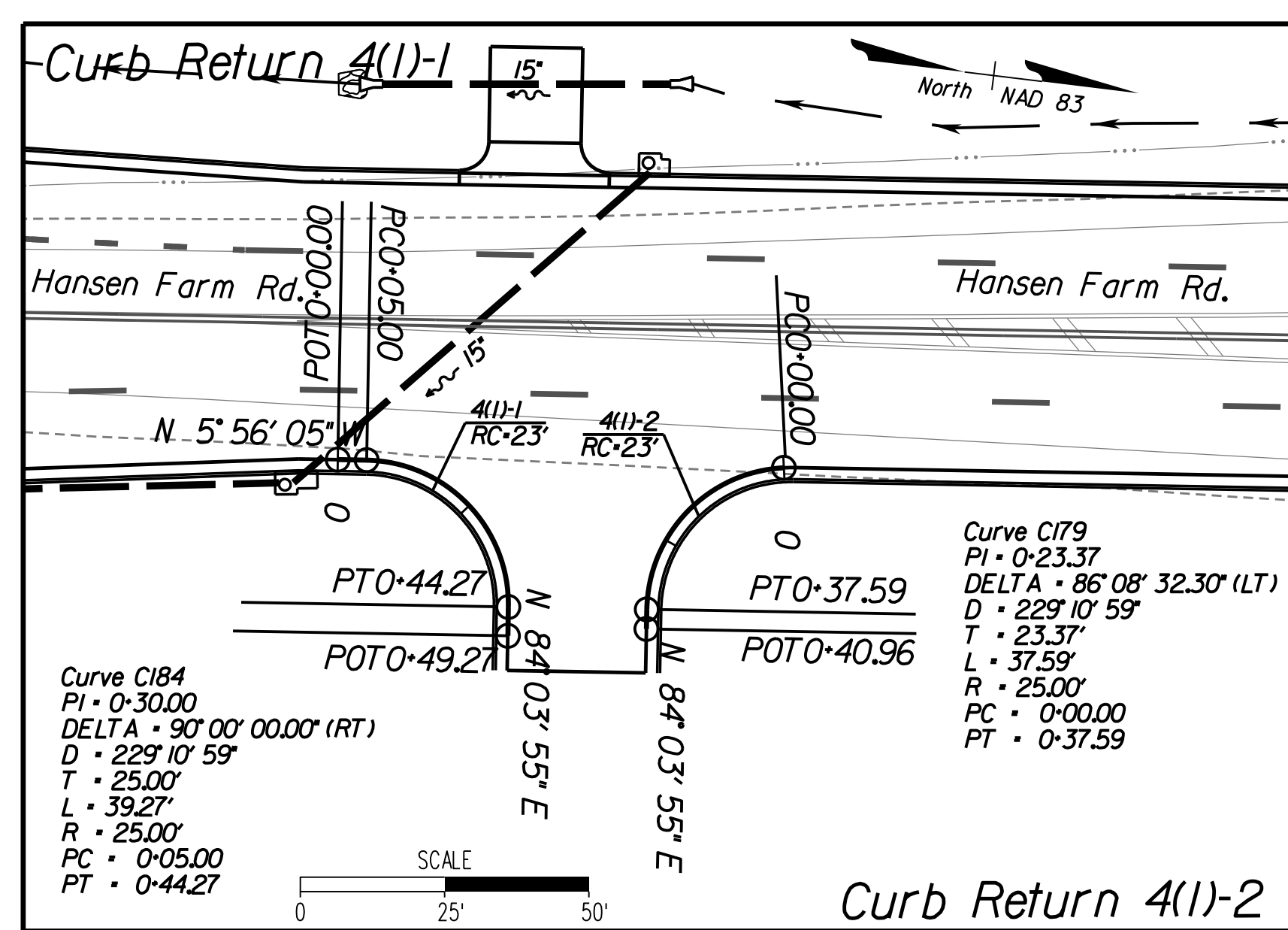
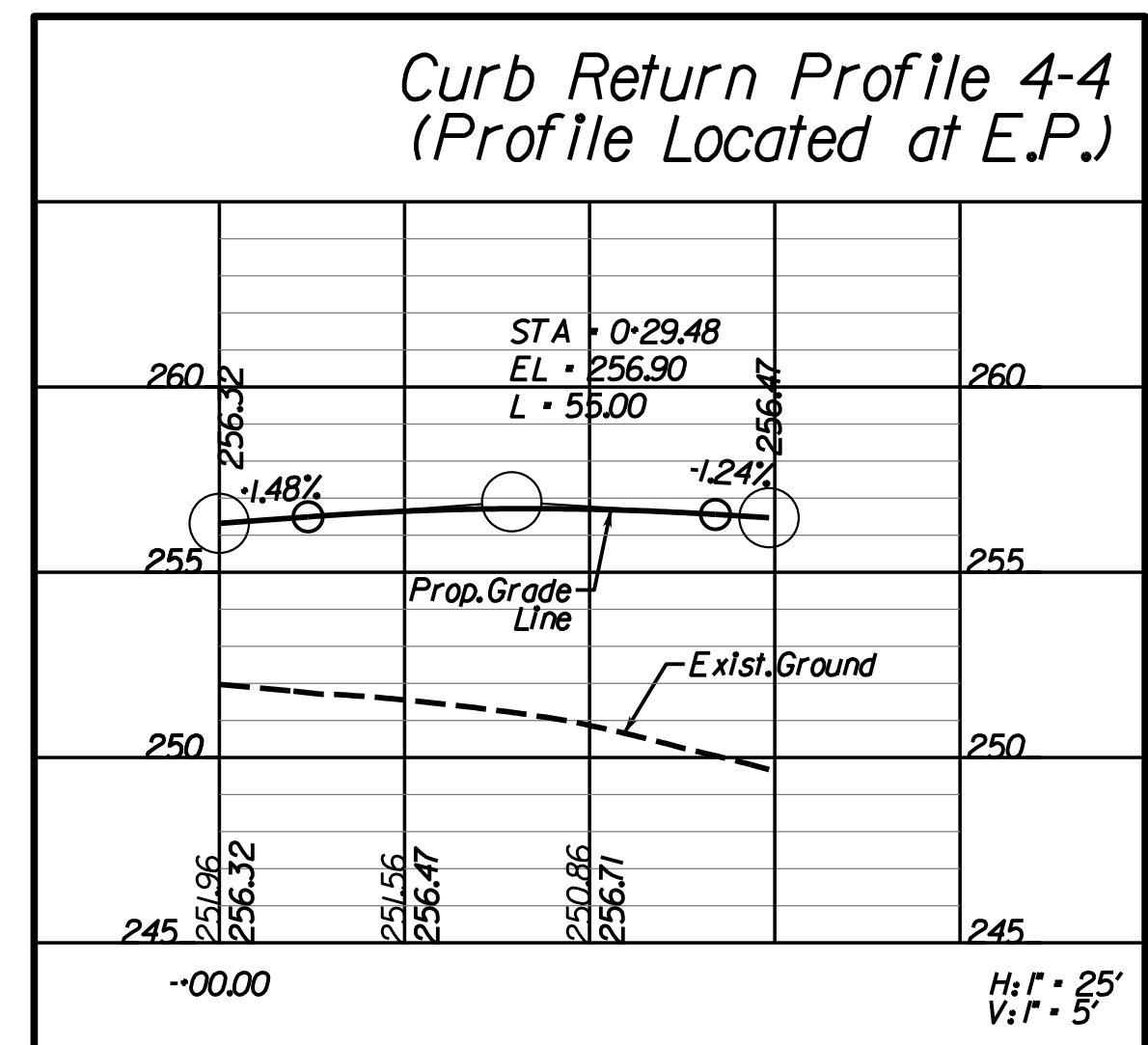
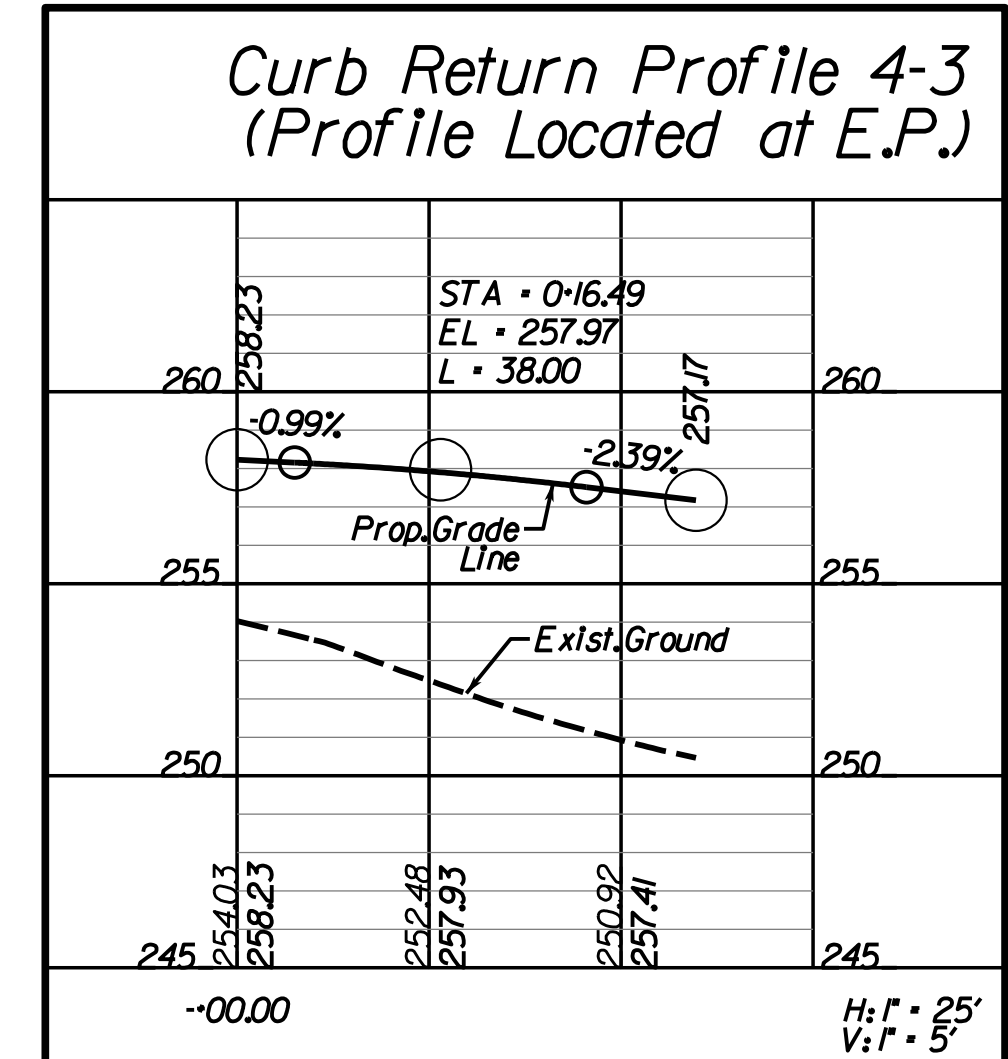
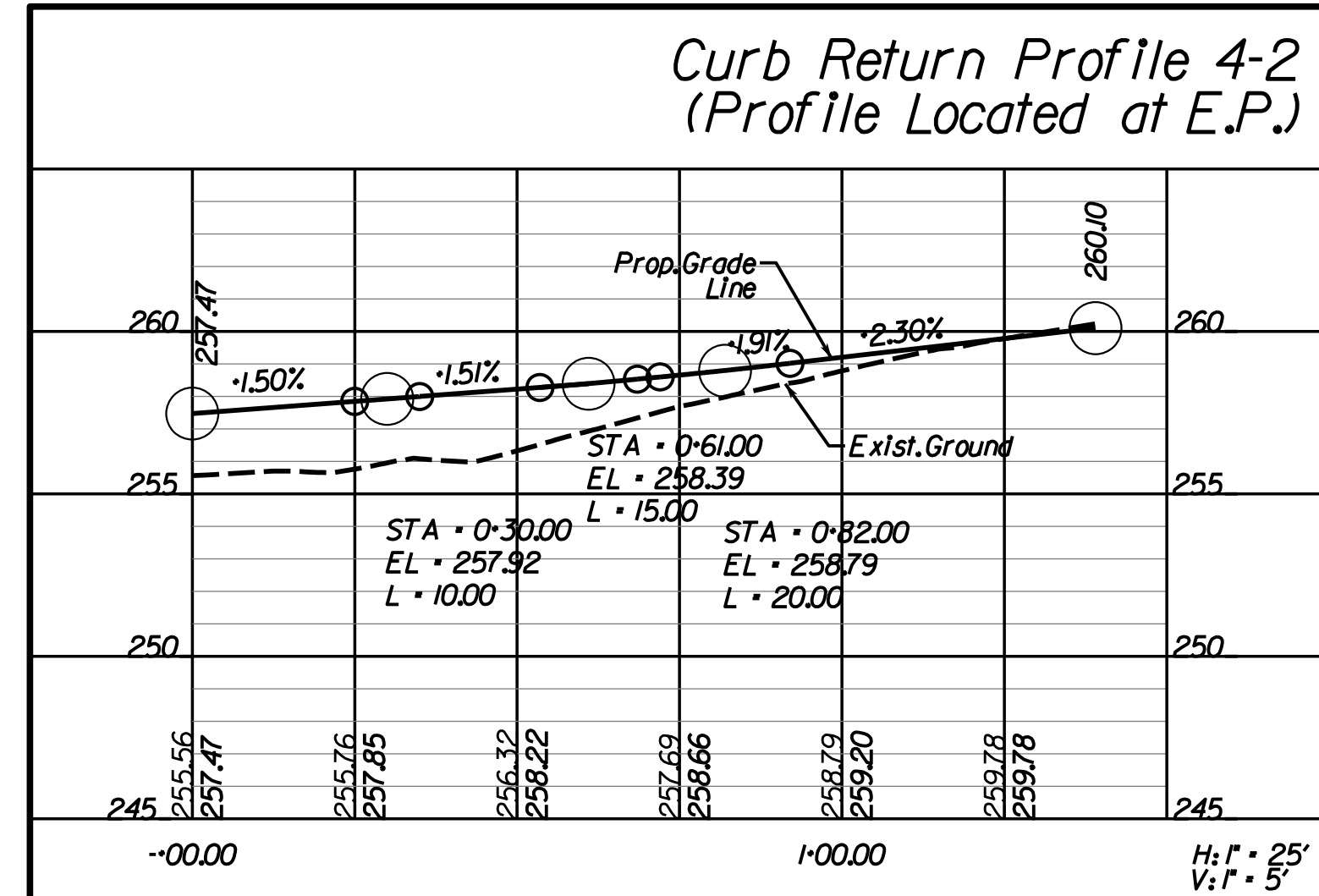
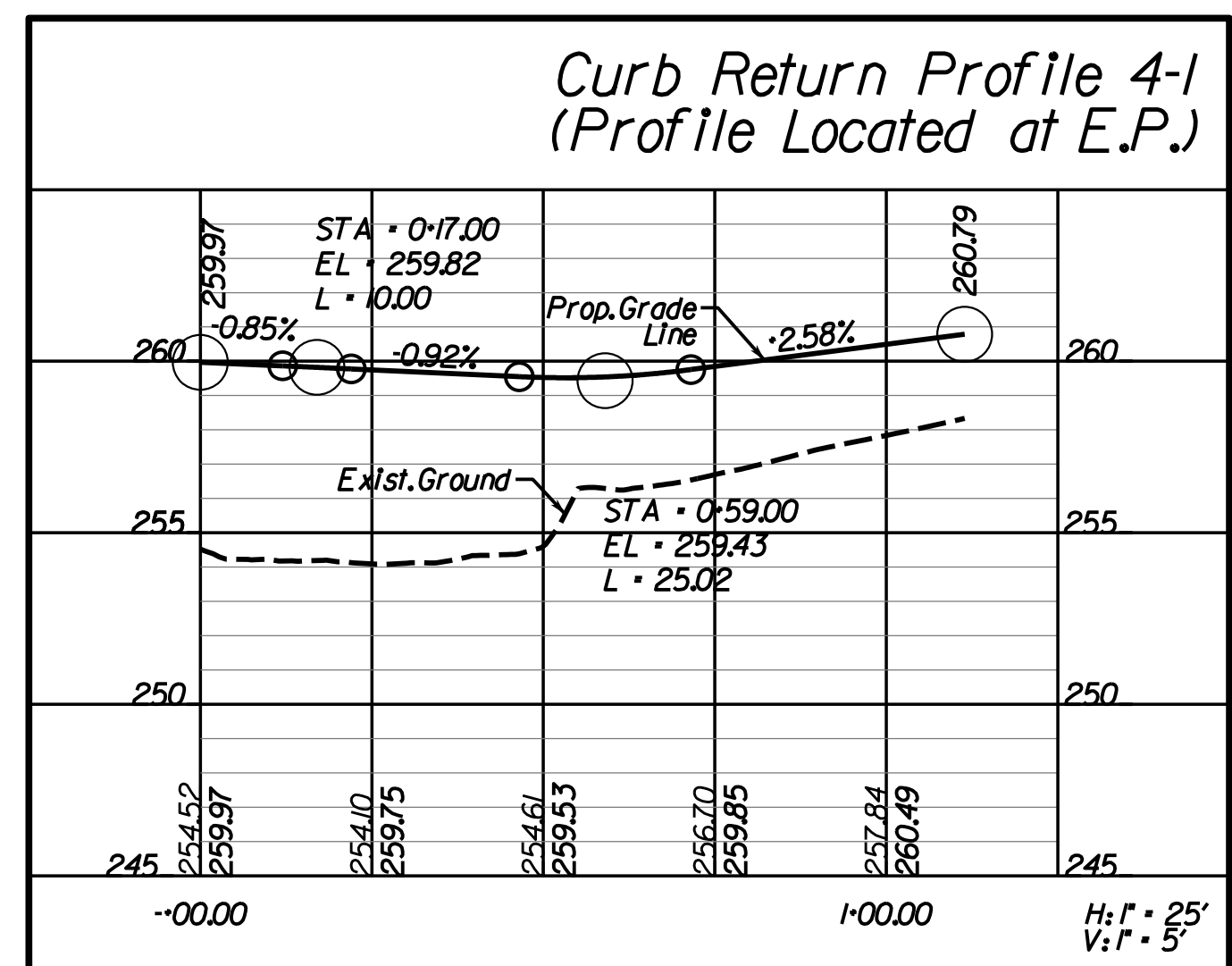
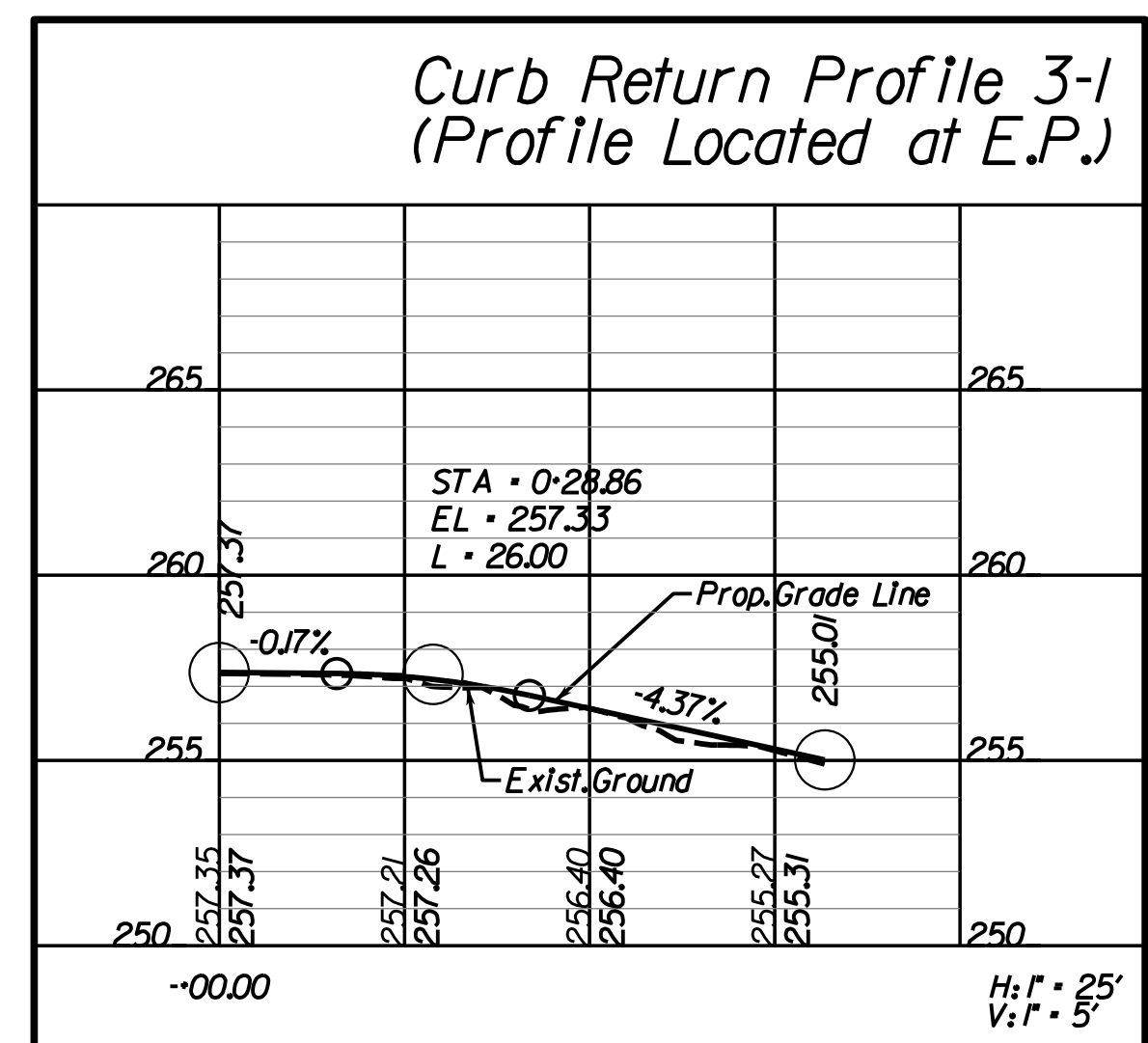
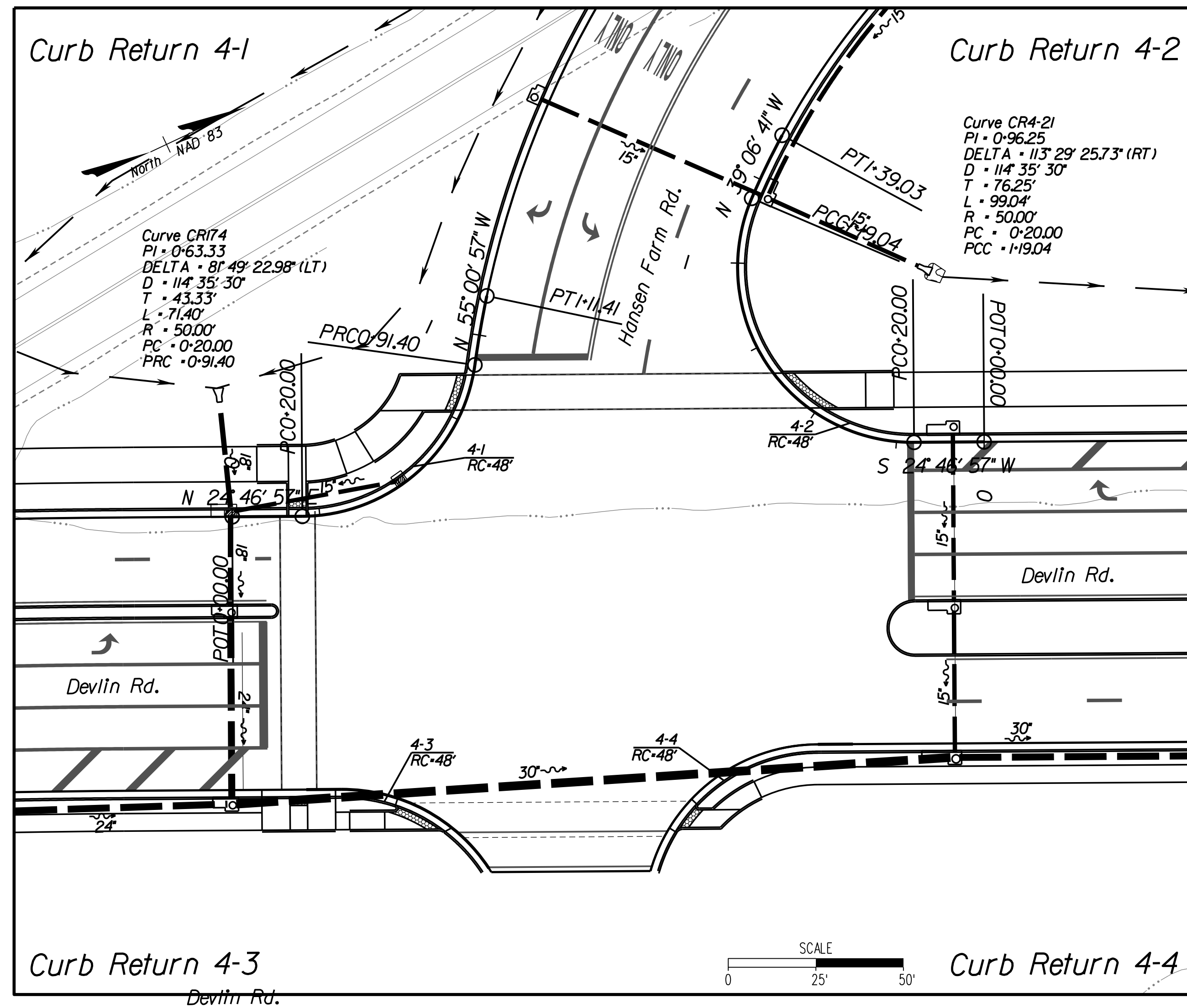


REVISED	STATE	ROUTE	PROJECT	SHEET NO.
NDC04	VA.	621	6234-076-266, C-501, RW-201	2B(4)

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 Associates, P.C.
 Manassas, Virginia
 ROADWAY ENGINEER

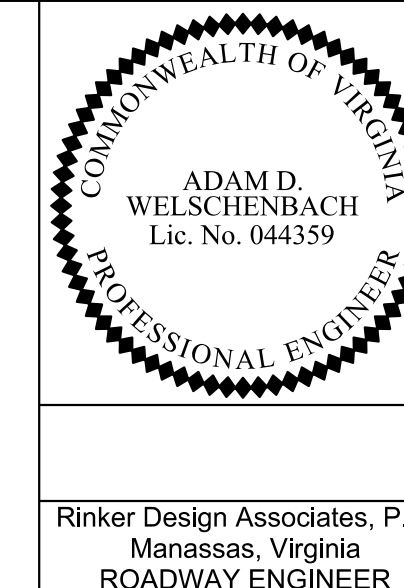
04 Revised to show extended project limits/realignment.



Rinker Design Associates, P.C.
 Design Associates, P.C.
 Lane District Design Unit
 7/1/2021

PROJECT MANAGER PWC_DOT_Mary Ankers (703)792-4228
 SURVEYED BY, DATE Rinker Design Associates, P.C. (703) 369-7373, April 2020
 DESIGN BY Rinker Design Associates, Mark Gunn, P.E. (703) 368-7373
 SUBSURFACE UTILITY BY, DATE Accurmark (703) 635-3060, May 2020

Curb Ramp Profiles

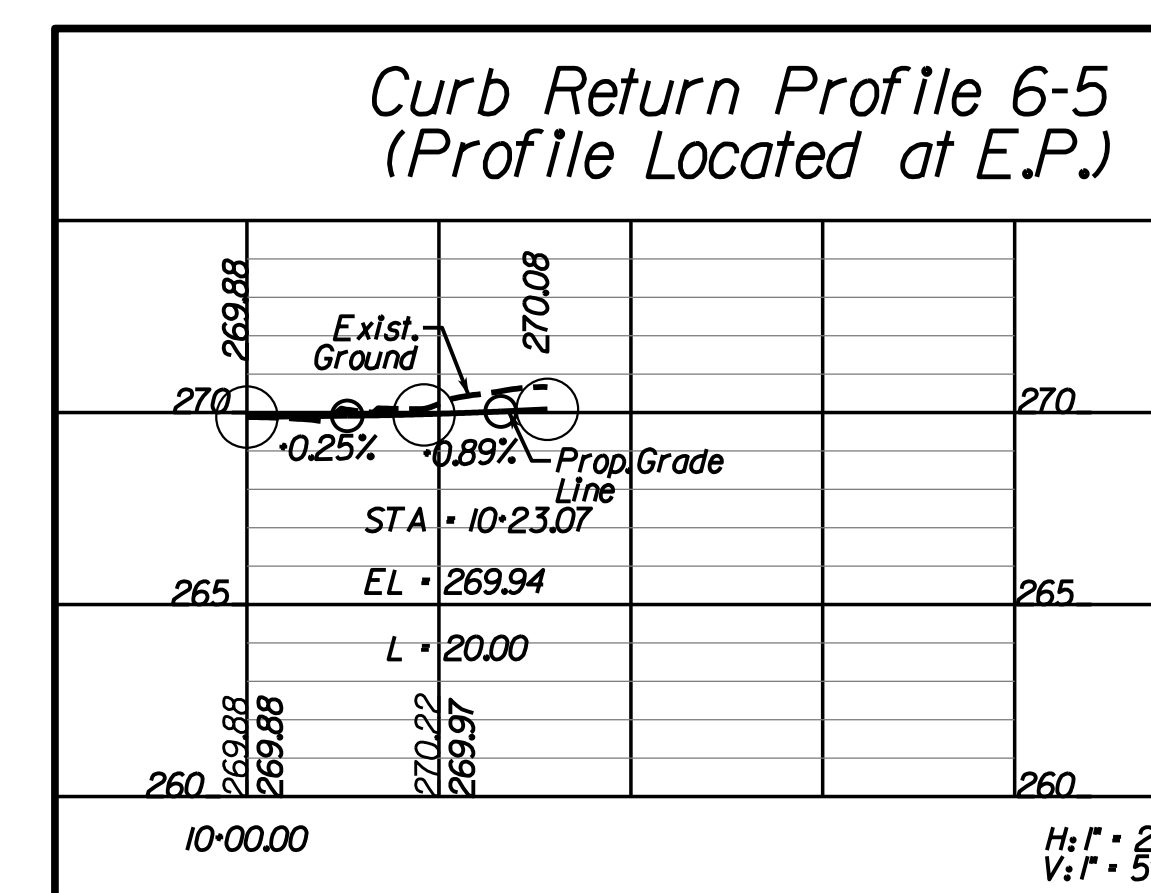
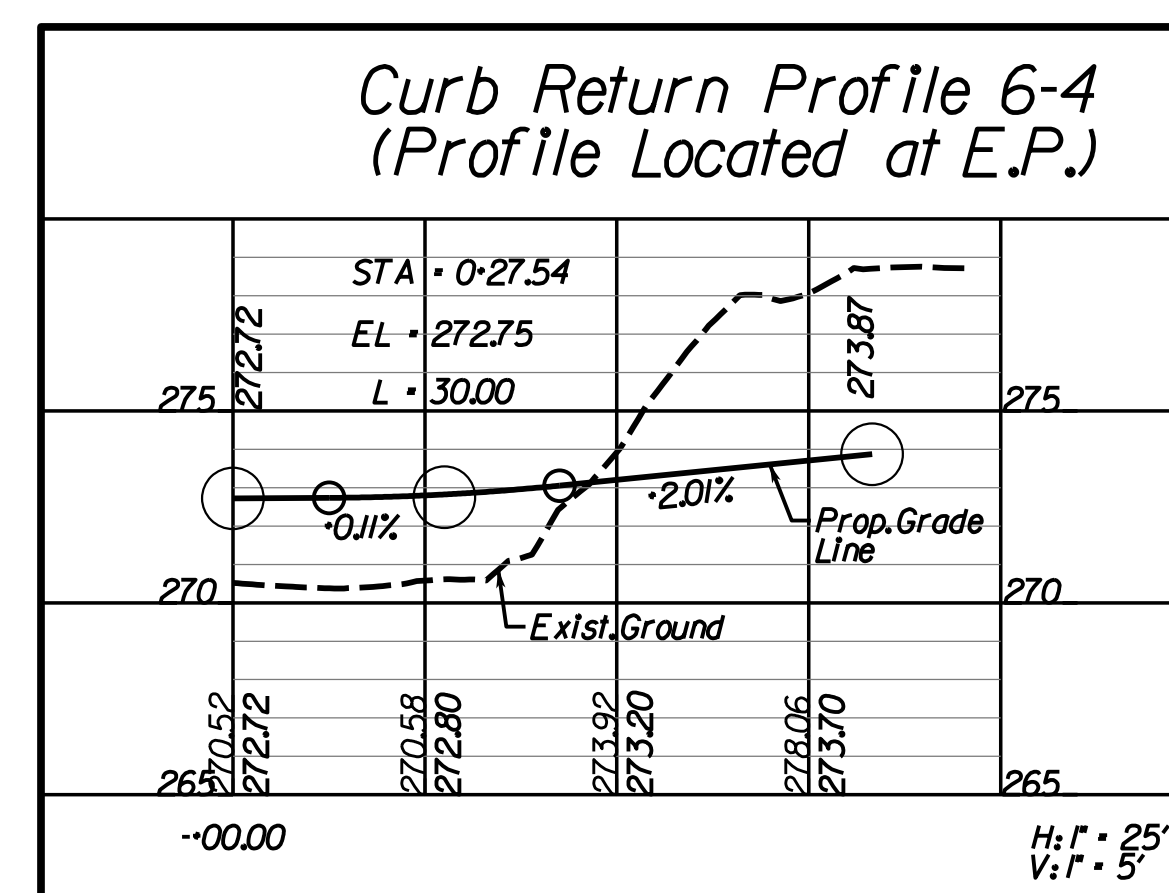
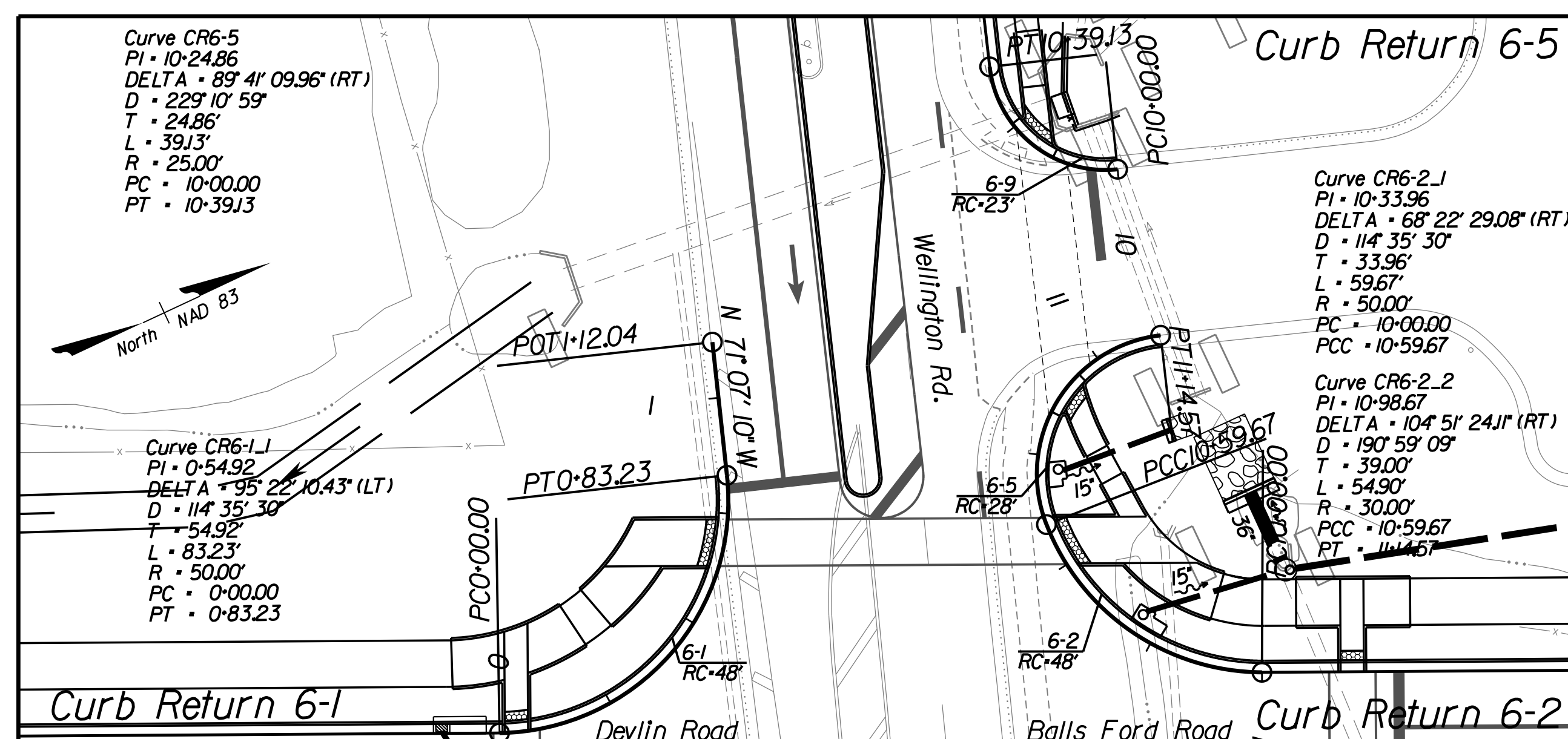
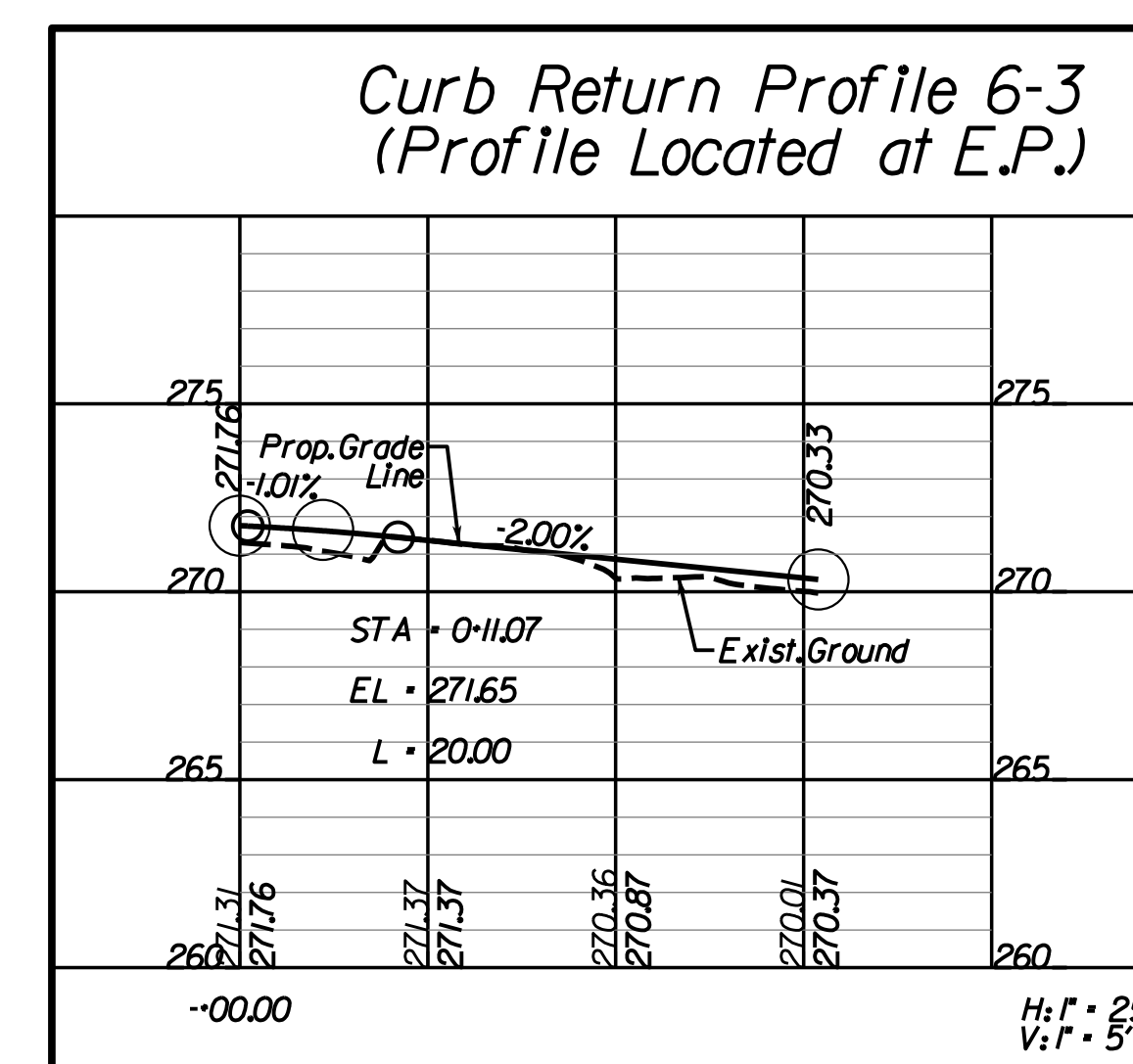
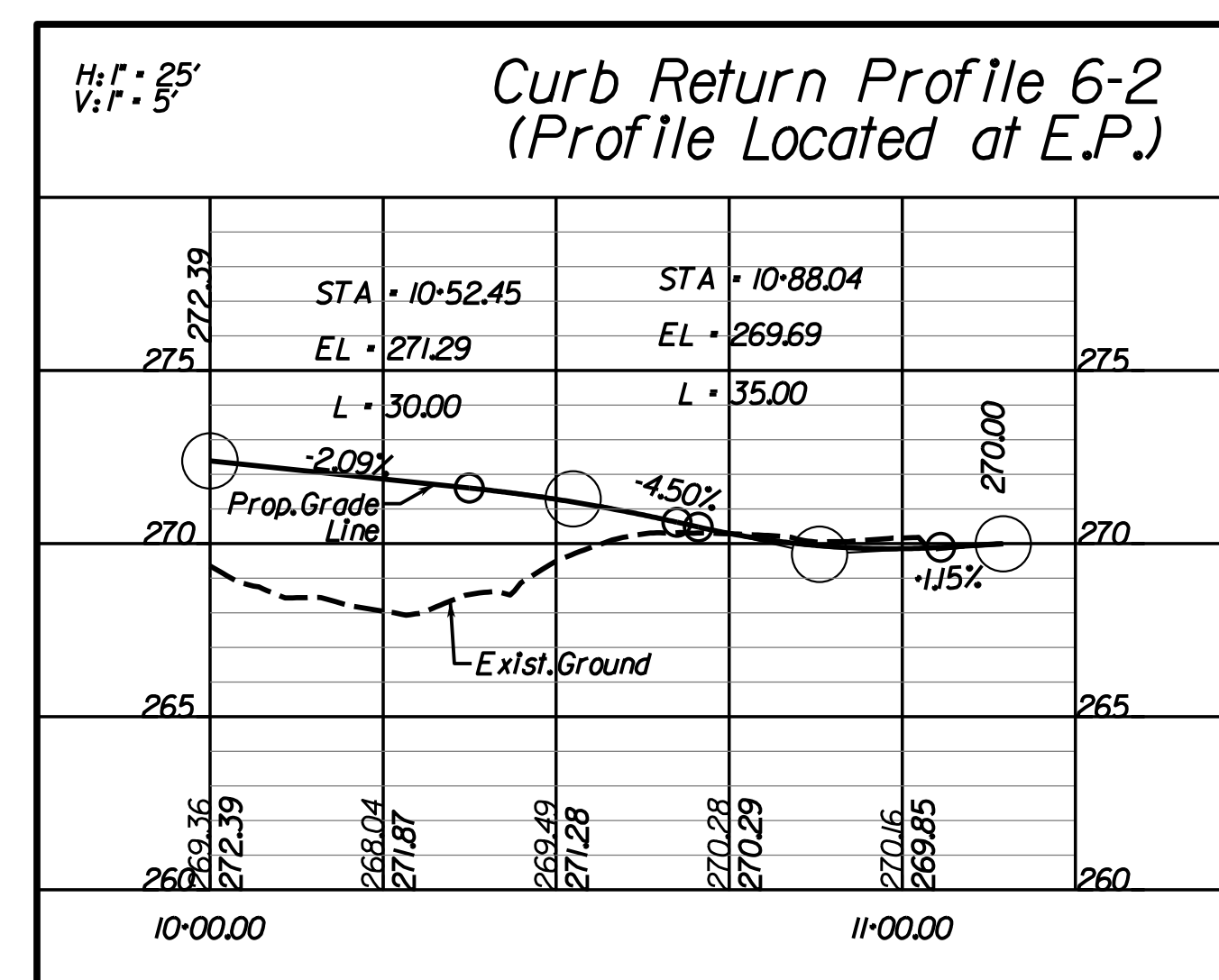
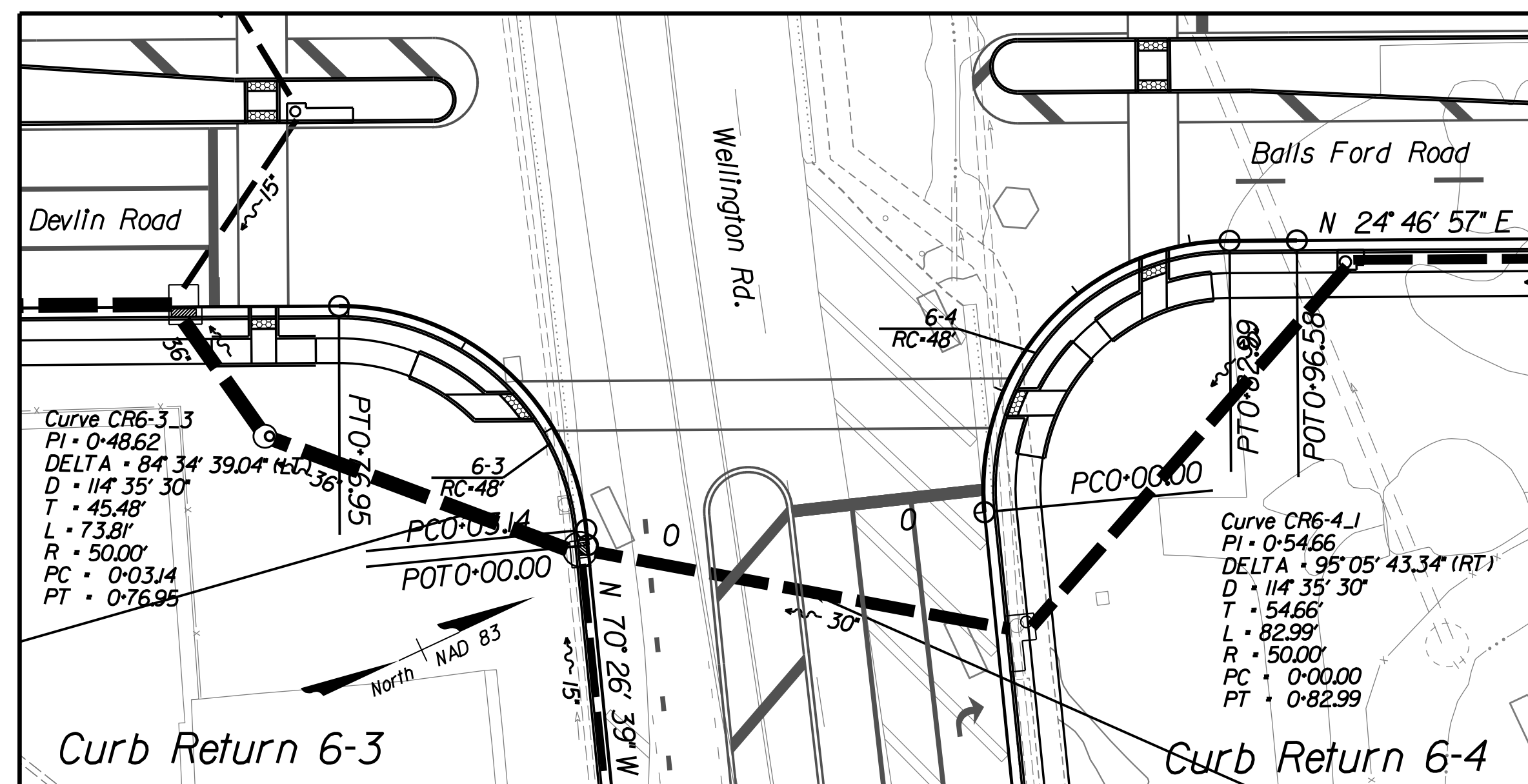
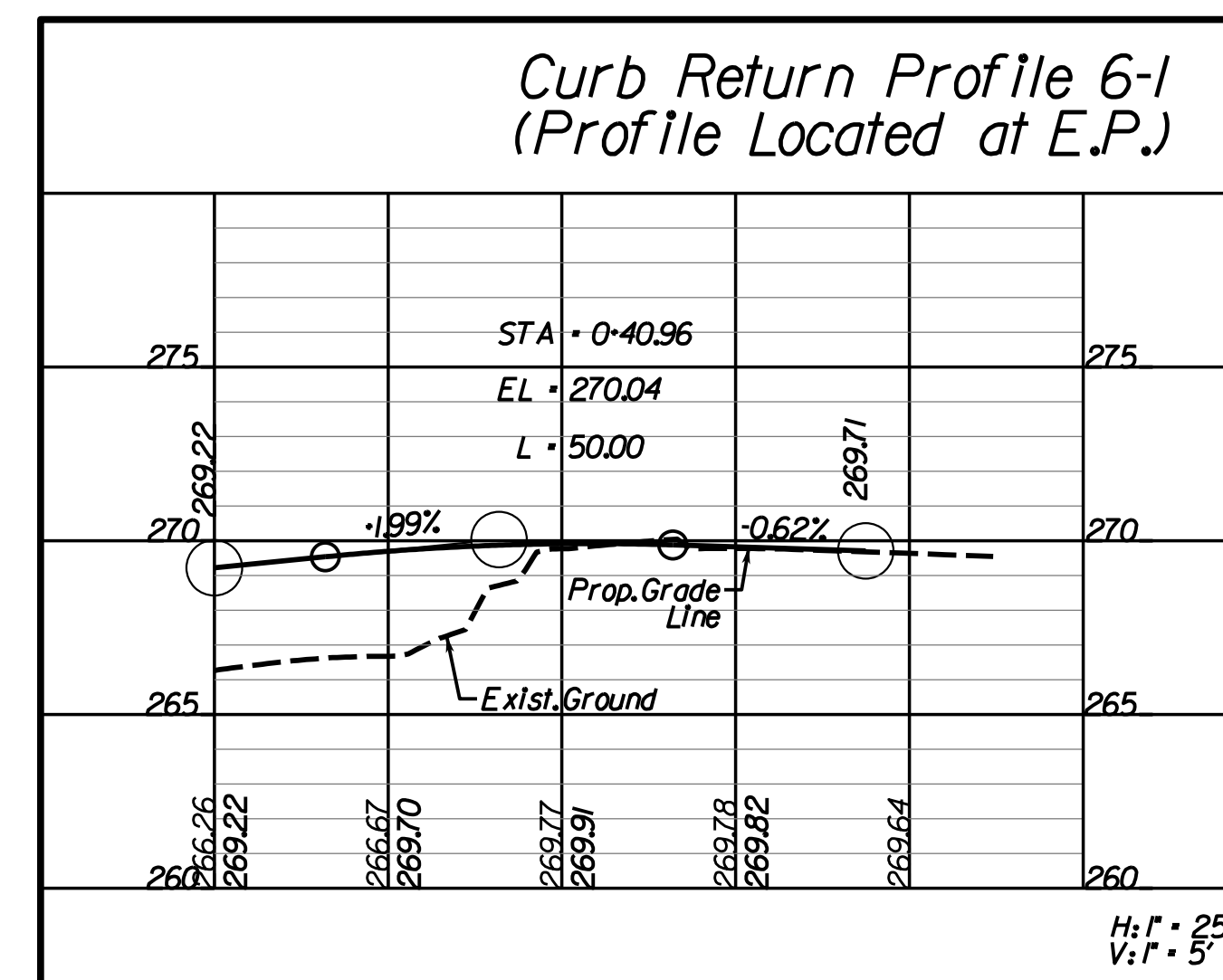
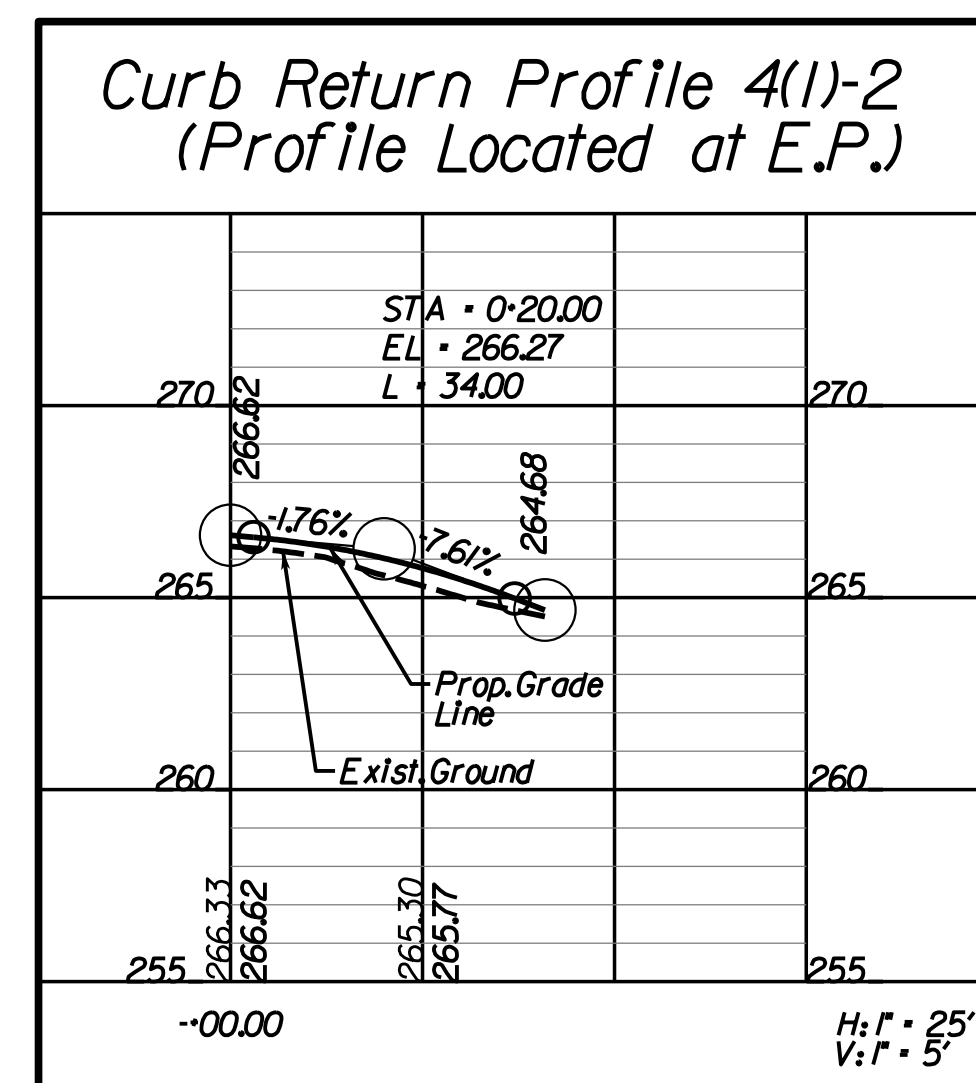
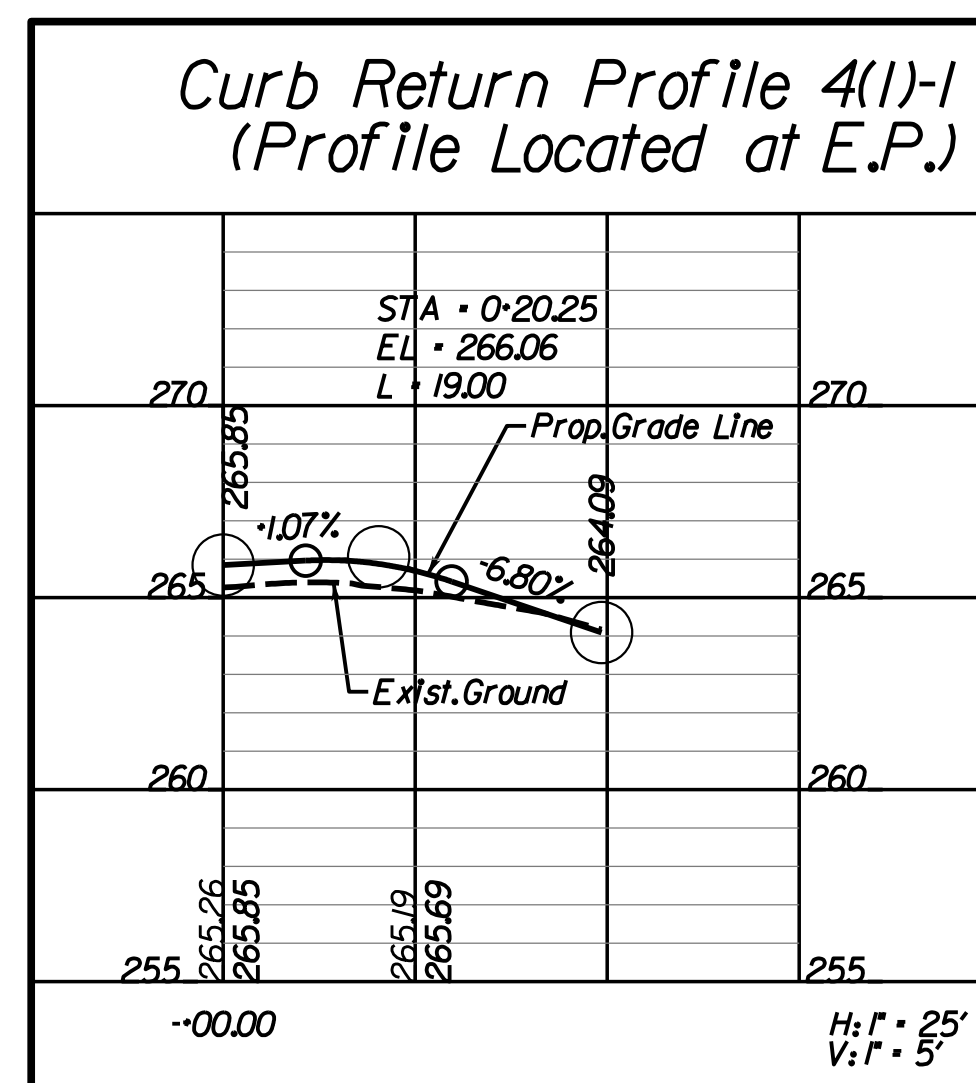
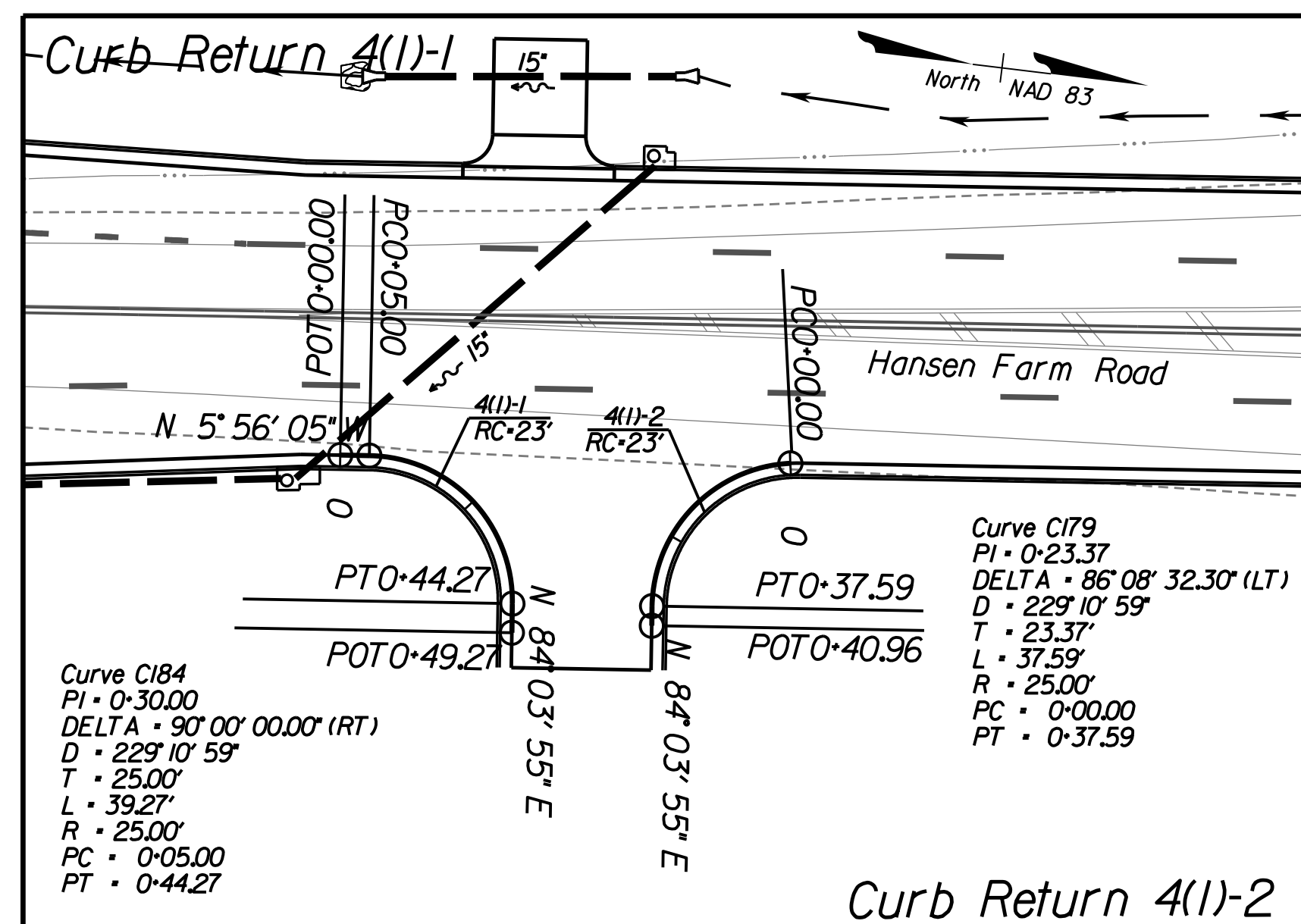


REVISED	STATE	ROUTE	PROJECT	SHEET NO.
NDC04	VA.	621	6234-076-266, C-501, RW-201	2B(5)

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 Associates, P.C.
 Manassas, Virginia
 ROADWAY ENGINEER

04 Revised Curb Return 4(1)-1 & 4(1)-2 to show extended project limits/realignment.

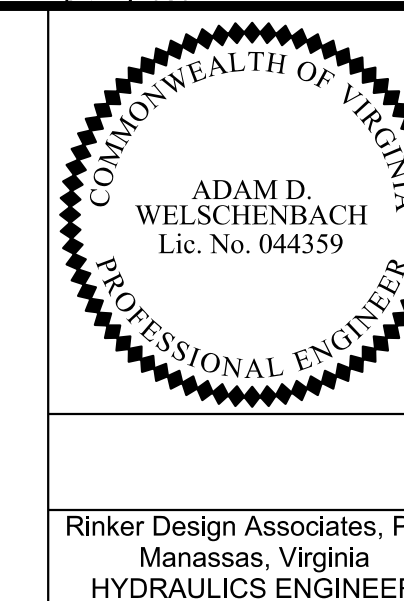


SCALE H: 25', V: 5'

Office Locations: Manassas, VA; Fairfax, VA; Falls Church, VA; Herndon, VA; Reston, VA; Washington, DC
 Rinker Design Associates, P.C.
 Design Associates, P.C.
 Lane District Design Unit
 7/1/2021

PROJECT MANAGER **PWC DOT: Mary Ankers (703) 792-4228**
 SURVEYED BY, DATE **Rinker Design Associates, P.C. (703) 369-7373, April 2020**
 DESIGN BY **Rinker Design Associates, Mark Gunn, P.E. (703) 368-7373**
 SUBSURFACE UTILITY BY, DATE **Accumark (703) 635-3060, May 2020**

DRAINAGE DESCRIPTIONS



Rinker Design Associates, P.C.
 Manassas, Virginia
 HYDRAULICS ENGINEER

REVISED	STATE	ROUTE	PROJECT	SHEET NO.
NDC04	VA.	62I	6234-076-266, C-50I, RW-20I	2L

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

04 Revised drainage descriptions.

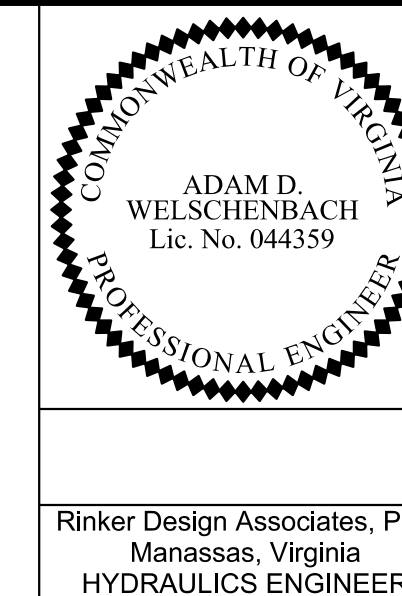
Sheet 3	Sheet 4	Sheet 4(1)
3-1 I-S' d DI-3B Req'd. L-6' H+7.0' Inv.+251.25 Top=258.21 I-S' d, IS-I Req'd. Connect UD-4 to DI	4-1 522' - 54' Conc. Pipe Class III Req'd. (13' Cover) (30 Degree Skew) (Triple Line - 174' each line) Silt-Tight Joint Type Req'd. Inv(In)247.00 Inv(out)245.50 Countersink Pipes 6" Below Specified Inverts 2-Std. EW-7S (54") Req'd. 69 CY St'd. EC-I Class I Req'd. Type B Installation Excavate 8" below bottom of culvert and backfill with Bedding Material Aggregate #25 or 26 1193 CY Minor Structure Excavation 191 Tons Bedding Material Aggregate #25 or 26	4-19 to 4-16 50' - 15" Storm Sewer Pipe Req'd. (3' Cover) Silt-Tight Joint Type Req'd. Inv(In)249.35 Inv(out)248.65
3-1 to 3-10 105' - 24" Storm Sewer Pipe Req'd. (3' Cover) Silt-Tight Joint Type Req'd. Inv(In)251.25 Inv(out)250.65	4-2 I-S' d DI-2A Req'd. H+4.5' Inv.+255.55 Top=260.03 Connect 2 UD-4 to DI	4-21 I-S' d, ES-I (18") Req'd. Inv.+248.00 2 CY EC-I Class A I Type A Installation Req'd.
3-2 I-S' d, ES-I (18") Req'd. Inv.+256.60	4-2 to 4-4 47' - 15" Storm Sewer Pipe Req'd. (12' Cover) Silt-Tight Joint Type Req'd. Inv(In)255.55 Inv(out)254.75	4-22 I-S' d, ES-I (15") Req'd. Inv.+247.65 1 CY EC-I Class A I Type A Installation Req'd.
3-2 to 3-6 17' - 15" Storm Sewer Pipe Req'd. (12' Cover) Silt-Tight Joint Type Req'd. Inv(In)255.75 Inv(out)255.50	4-3 I-S' d, ES-I (18") Req'd. Inv.+256.50	4-23 I-S' d DI-3B Req'd. L-8' H+4.2' Inv.+251.00 Top=255.1 Connect UD-4 to DI
3-3 37' - 15" Conc. Pipe Class III Req'd. (1' Cover) Silt-Tight Joint Type Req'd. Inv(In)256.05 Inv(out)255.85 2-Std. ES-I (15") Req'd. 1 CY EC-I Class A I Type A Installation Req'd.	4-3 to 4-4 30' - 18" Storm Sewer Pipe Req'd. (3' Cover) Silt-Tight Joint Type Req'd. Inv(In)256.50 Inv(out)255.85	4-23 to 4-8 69' - 15" Storm Sewer Pipe Req'd. (3' Cover) Silt-Tight Joint Type Req'd. Inv(In)251.00 Inv(out)250.00
3-4 Structure number not assigned	4-4 I-S' d DI-2B Req'd. L-6' H+5.6' Inv.+254.65 Top=260.28 I-S' d, IS-I Req'd. Connect UD-4 to DI	4-24 I-S' d DI-3B Req'd. L-8' H+4.0' Inv.+253.94 Top=257.94 Connect UD-4 to DI
3-5 30' - 15" Conc. Pipe Class III Req'd. (1' Cover) Silt-Tight Joint Type Req'd. Inv(In)257.15 Inv(out)257.00 2-Std. ES-I (15") Req'd. 1 CY EC-I Class A I Type A Installation Req'd.	4-4 to 4-5 26' - 18" Storm Sewer Pipe Req'd. (3' Cover) Silt-Tight Joint Type Req'd. Inv(In)254.65 Inv(out)254.15	4-24 to 4-25 48' - 15" Storm Sewer Pipe Req'd. (2' Cover) Silt-Tight Joint Type Req'd. Inv(In)253.94 Inv(out)252.10
3-6 I-S' d DI-3C Req'd. L-6' H+4.2' Inv.+254.40 Top=258.63 I-S' d, IS-I Req'd. Connect 2 UD-4 & CD-2 to DI	4-5 I-S' d DI-3B Req'd. L-6' H+5.9' Inv.+254.05 Top=259.95 I-S' d, IS-I Req'd.	4-25 I-S' d DI-3B Req'd. L-8' H+5.2' Inv.+252.00 Top=257.21 I-S' d, IS-I Req'd.
3-6 to 3-8 74' - 15" Storm Sewer Pipe Req'd. (12' Cover) Silt-Tight Joint Type Req'd. Inv(In)254.40 Inv(out)253.30	4-5 to 4-6 52' - 24" Storm Sewer Pipe Req'd. (3' Cover) Silt-Tight Joint Type Req'd. Inv(In)254.05 Inv(out)253.55	4-25 to 4-7 40' - 15" Storm Sewer Pipe Req'd. (12' Cover) Silt-Tight Joint Type Req'd. Inv(In) 253.00 Inv(out)251.7
3-7 I-S' d DI-3C Req'd. L-6' H+4.2' Inv.+253.20 Top=257.44 Connect UD-4 to DI	4-6 I-S' d DI-3B Req'd. L-6' H+9.3' Inv.+249.45 Top=258.72 I-S' d, IS-I Req'd. Connect UD-4 to DI	Sheet 4(1) 4(1)-1 33' - 18" Conc. Pipe Class III Req'd. (1' Cover) Silt-Tight Joint Type Req'd. Inv(In)261.85 Inv(out)261.75 2-Std. ES-I (18") Req'd. 2 CY EC-I Class A I Type A Installation Req'd.
3-7 to 3-8 53' - 15" Storm Sewer Pipe Req'd. (12' Cover) Silt-Tight Joint Type Req'd. Inv(In)253.20 Inv(out)252.90	4-6 to 4-7 204' - 30" Storm Sewer Pipe Req'd. (4' Cover) Silt-Tight Joint Type Req'd. Inv(In)249.45 Inv(out)248.30	4(1)-2 I-S' d DI-3B Req'd. L-4' H+4.2' Inv.+262.50 Top=266.72 Connect UD-4 to DI
3-8 I-S' d DI-3C Req'd. L-6' H+4.7' Inv.+252.60 Top=257.27 I-S' d, IS-I Req'd. Connect 2 UD-4 to DI	4-7 I-S' d DI-3BB Req'd. L-6' H+8.4' Inv.+247.80 Top=256.22 I-S' d, IS-I Req'd. Connect UD-4 to DI	4(1)-2 to 4(1)-3 82' - 15" Storm Sewer Pipe Req'd. (12' Cover) Silt-Tight Joint Type Req'd. Inv(In)262.50 Inv(out)261.90
3-8 to 3-9 53' - 24" Storm Sewer Pipe Req'd. (12' Cover) Silt-Tight Joint Type Req'd. Inv(In)252.60 Inv(out)252.30	4-7 to 4-8 85' - 30" Storm Sewer Pipe Req'd. (3' Cover) Silt-Tight Joint Type Req'd. Inv(In)247.80 Inv(out)247.30	4(1)-3 I-S' d DI-3B Req'd. L-6' H+4.3' Inv.+261.80 Top=266.08 I-S' d, IS-I Req'd. Connect UD-4 to DI
3-9 I-S' d DI-3B Req'd. L-6' H+4.7' Inv.+252.20 Top=257.27 I-S' d, IS-I Req'd. Connect UD-4 to DI	4-8 I-S' d DI-3BB Req'd. L-8' H+8.5' Inv.+246.45 Top=254.90 I-S' d, IS-I Req'd. Connect UD-4 to DI	4(1)-3 to 4(1)-4 188' - 15" Conc. Pipe Class III Req'd. (3' Cover) Silt-Tight Joint Type Req'd. Inv(In)261.80 Inv(out)259.30
3-9 to 3-1 53' - 24" Storm Sewer Pipe Req'd. (12' Cover) Silt-Tight Joint Type Req'd. Inv(In)252.20 Inv(out)251.35	4-8 to 4-9 33' - 30" Storm Sewer Pipe Req'd. (1' Cover) Silt-Tight Joint Type Req'd. Inv(In)246.45 Inv(out)246.00	4(1)-4 I-S' d DI-3B Req'd. L-8' H+4.2' Inv.+259.20 Top=263.40 I-S' d, IS-I Req'd. Connect UD-4 to DI
3-10 I-S' d DI-3B Req'd. L-6' H+4.7' Inv.+250.55 Top=258.82 I-S' d, IS-I Req'd. Connect UD-4 to DI	4-9 I-S' d, ES-I (30") Req'd. Inv.+246.00 3 CY EC-I Class I Type A Installation Req'd.	4(1)-4 to 4-11 132' - 15" Conc. Radial Pipe Class III Req'd. (2' Cover) (215' Radius - using 8' pipe joint lengths with full bevel) Silt-Tight Joint Type Req'd. Inv(In)259.20 Inv(out)255.90
3-10 to 4-6 181' - 24" Storm Sewer Pipe Req'd. (4' Cover) Silt-Tight Joint Type Req'd. Inv(In)250.55 Inv(out)249.55	4-10 I-S' d DI-3B Req'd. L-4' H+4.3' Inv.+258.30 Top=262.56	

7/1/2021 NOVA DISTRICT DESIGN UNIT

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 Transportation - Environmental Services
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 Manassas, VA 20108
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 Email: info@rinker.com
 www.rinker.com

PROJECT MANAGER **PWC DOT: Mary Ankers (703) 792-4228**
 SURVEYED BY, DATE **Rinker Design Associates, P.C. (703) 369-7373, April 2020**
 DESIGN BY **Rinker Design Associates, Mark Gunn, P.E. (703) 368-7373**
 SUBSURFACE UTILITY BY, DATE **Accumark (703) 635-3060, May 2020**

DRAINAGE DESCRIPTIONS



Rinker Design Associates, P.C.
 Manassas, Virginia
 HYDRAULICS ENGINEER

REVISED	STATE	ROUTE	STATE	PROJECT	SHEET NO.
NDC04	VA.	62/		6234-076-266, C-501, RW-201	2(LII)

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

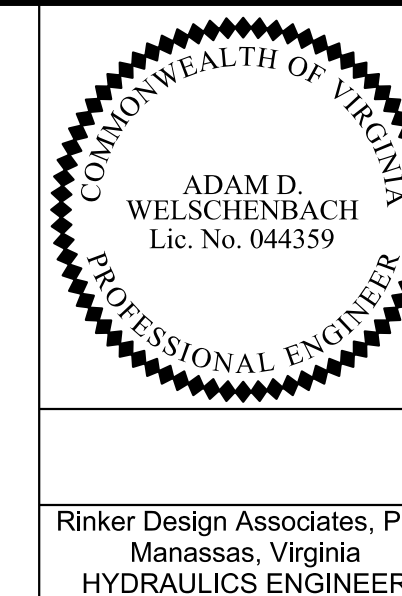
04 Revised drainage descriptions.

4(1)-5	58' - 18" Conc. Pipe Class III Req'd. (1' Cover) Silt-Tight Joint Type Req'd. Inv(In)261.85 Inv(out)261.75 2-Std. ES-1 (15') Req'd. 1 CY EC-1 Class A I Type A Installation Req'd.	Sheet 6	6-8	I-Std DI-3B Req'd. L=12' H=6.2' Inv.=264.20 Top=270.35 Connect UD-4 to DI	
Sheet 5		EX15	6-8 to 6-7	4' - 15" Storm Sewer Pipe Req'd. (4' Cover) Silt-Tight Joint Type Req'd. Inv(In)264.20 Inv(out)263.90	
5-1	I-Std DI-2E Req'd. L=8' H=8.6' Inv.=254.50 Top=263.14 I-Std. IS-1 Req'd. 0.5' Steel Plate Req'd. at Invert Connect UD-4 to DI	EX202 to 6-12	6-9	I-Std DI-2B Req'd. L=10' H=4.4' Inv.=264.80 Top=269.22 Connect UD-4 to DI	6-19 to 6-20
5-1 to 5-3	297' - 36" Storm Sewer Pipe Req'd. (3' Cover) Silt-Tight Joint Type Req'd. Inv(In)254.50 Inv(out)251.85 Excavate 8' below bottom of storm sewer pipe and backfill with Bedding Material Aggregate *25 or 26 84 Tons Bedding Material Aggregate *25 or 26	6-1	6-9 to 6-8	45' - 15" Storm Sewer Pipe Req'd. (3' Cover) Silt-Tight Joint Type Req'd. Inv(In)264.80 Inv(out)264.30	6-20
5-2	I-Std DI-2B Req'd. L=8' H=4.1' Inv.=259.30 Top=263.38 Connect 3 UD-4 to DI	6-1 to 6-5	6-10	I-Std DI-4BB Req'd. L=10' H=12.9' Inv.=260.05 Top=272.92 I-Std. IS-1 Req'd. I-Std. SL-1 Req'd. Connect 2 UD-4 to DI	6-20 to 6-3
5-2 to 5-1	75' - 15" Storm Sewer Pipe Req'd. (3' Cover) Silt-Tight Joint Type Req'd. Inv(In)259.30 Inv(out)258.85	6-2	6-10 to 6-20	85' - 30" Storm Sewer Pipe Req'd. (10' Cover) Silt-Tight Joint Type Req'd. Inv(In)260.05 Inv(out)259.60	6-20 to 6-3
5-3	I-Std DI-4B Req'd. L=8' H=6.1' Inv.=251.75 Top=257.89 I-Std. IS-1 Req'd. Connect 3 UD-4 to DI	6-2 to 6-1	6-11	I-Std. ES-1 (18") Req'd. Inv.=266.00	Sheet 6(1)
5-3 to 5-6	173' - 36" Storm Sewer Pipe Req'd. (3' Cover) Silt-Tight Joint Type Req'd. Inv(In)251.75 Inv(out)249.65 Excavate 8' below bottom of storm sewer pipe and backfill with Bedding Material Aggregate *25 or 26 49 Tons Bedding Material Aggregate *25 or 26	6-3	6-11 to 6-12	268' - 18" Storm Sewer Pipe Req'd (1' Cover) Silt-Tight Joint Type Req'd. Inv(In)266.00 Inv(out)264.65	EX206 to EX205
5-4	I-Std DI-2B Req'd. L=8' H=4.0' Inv.=253.85 Top=257.87 Connect UD-4 to DI	6-3 to 6-7	6-12	8.0 Lin.Ft. Std MH-1 or 2 Req'd. I-Std MH-1 Frame and Cover Req'd. Prop. Top=273.22 Inv.=264.55 I-Std. IS-1 Req'd.	Existing 18" RCP To Be Repaired Place Repair Bands at 37.8 LF and 45.9 LF from Ex.Str 206
5-4 to 5-3	69' - 15" Storm Sewer Pipe Req'd. (2' Cover) Silt-Tight Joint Type Req'd. Inv(In)253.85 Inv(out)253.50	6-4	6-12 to 6-13	16' - 36" Storm Sewer Pipe Req'd (2' Cover) Silt-Tight Joint Type Req'd. Inv(In)264.55 Inv(out)264.45 Excavate 4' below bottom of storm sewer pipe and backfill with Bedding Material Aggregate *25 or 26 3 Tons Bedding Material Aggregate *25 or 26	Structure number not assigned
5-5	I-Std DI-2B Req'd. L=8' H=4.0' Inv.=249.65 Top=253.66 Connect UD-4 to DI	6-4 to 6-5	6-13	I-Std. EW-1 (36") Req'd. Inv.= 264.45 10 CY EC-1 Class A I Type B Installation Req'd.	I-Std DI-3B Req'd. L=10' H=4.2' Inv.=265.53 Top=269.71
5-5 to 4-14	108' - 15" Storm Sewer Pipe Req'd. (2' Cover) Silt-Tight Joint Type Req'd. Inv(In)249.65 Inv(out)248.95	6-5	6-14	I-Std DI-3B Req'd. L=4' H=4.8' Inv.=266.00 Top=270.80 Connect 2 UD-4 to DI	I-Std DI-3B Req'd. L=10' H=5.1' Inv.=264.96 Top=270.01 I-Std. IS-1 Req'd.
5-6	I-Std DI-4B Req'd. Monobox shallow structure L=6' H=4.5' Inv.=250.35 Top=254.85 I-Std. IS-1 Req'd. Connect UD-4 to DI See Sheet 2L(7) for Detail.	6-5 to 6-6	6-14 to 6-15	25' - 15" Storm Sewer Pipe Req'd (2' Cover) Silt-Tight Joint Type Req'd. Inv(In)266.00 Inv(out)265.00	85' - 15" Storm Sewer Pipe Req'd. (3' Cover) Silt-Tight Joint Type Req'd. Inv(In)265.53 Inv(out)265.06
5-6 to 5-7	40' - 45' x 29" Elliptical Storm Sewer Pipe Req'd. (1' Cover) Silt-Tight Joint Type Req'd. Inv(In)250.35 Inv(out)250.15 Excavate 8' below bottom of storm sewer pipe and backfill with Bedding Material Aggregate *25 or 26 13 Tons Bedding Material Aggregate *25 or 26	6-6	6-15	I-Std. EW-1 (15") Req'd. Inv.= 265.00 1 CY EC-1 Class A I Type A Installation Req'd.	I-Std DI-3C Req'd. L=8' H=4.9' Inv.=262.84 Top=267.70
5-7	I-Std. ES-1A (45' x 29") Req'd. Inv.=250.15 12 CY EC-1 Class A I Type B Installation Req'd.	6-6 to 6-10	6-16	I-Std DI-3BB Req'd. L=4' H=11.4' Inv.=263.25 Top=274.67 I-Std. IS-1 Req'd. Connect 5 UD-4 to DI	47' - 15" Storm Sewer Pipe Req'd. (3' Cover) Silt-Tight Joint Type Req'd. Inv(In)262.84 Inv(out)262.48
		6-7	6-16 to 6-12	29' - 15" Storm Sewer Pipe Req'd (3' Cover) Silt-Tight Joint Type Req'd. Inv(In)268.00 Inv(out)267.00	I-Std DI-3B Req'd. L=10' H=5.4' Inv.=262.38 Top=267.81
		6-7	6-17	Structure number not assigned	6' - 15" Concrete Pipe Extension Req'd. (4' Cover) Silt-Tight Joint Type Req'd. Inv(In)262.38 Inv(out)261.96
		6-7 to 5-1	6-18	Structure number not assigned	I-Mod. EW (60' x 38") Req'd. Inv.=262.77 4' - 60' x 38" Conc. Elliptical Pipe Extension Req'd. (4' Cover) Excavate 4' below bottom of storm sewer pipe Backfill with 1 Tons Bedding Material Aggregate *25 or 26
			6-19	I-Std DI-2B Req'd. L=6' H=5.4' Inv.=267.30 Top=272.74 Connect UD-4 to DI	

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PROJECT MANAGER PWC DOT: Mary Ankers (703) 792-4228
SURVEYED BY, DATE Rinker Design Associates, P.C. (703) 369-7373, April 2020
DESIGN BY Rinker Design Associates, Mark Gunn, P.E. (703) 368-7373
SUBSURFACE UTILITY BY, DATE Acumark (703) 635-3060, May 2020

DITCH TYPICALS



Rinker Design Associates, P.C.
Manassas, Virginia
HYDRAULICS ENGINEER

REVISED	STATE	ROUTE	PROJECT	SHEET NO.
NDC02 NDC04	VA.	62/	6234-076-266, C-501, RW-201	2M

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

Typical Ditch								
Balls Ford Road	Station	to	Station	D* (ft)	B (ft)	X (ft)	Y (ft)	Lining
Right								
Ditch 9	117-01	to	113-80	1.2	2.0	3.0	3.0	EC-2 Type 1 Req'd
	113-80	to	111-29	1.9	2.0	3.0	3.0	EC-2 Type 1 Req'd
	111-29	to	111-10	1.1	2.0	3.0	3.0	EC-2 Type 4 Req'd
Ditch 4	114-26	to	113-80	0.7	0.0	3.0	3.0	EC-2 Type 1 Req'd
Ditch 11	146-00	to	146-23	1.1	0.0	5.0	3.0	EC-2 Type 1 Req'd
Ditch 12	152-81	to	147-61	1.0	0.0	2.0/3.0	2.0/3.0	PG-2A Req'd
	147-61	to	149-70	0.5	0.0	3.0/2.0	3.0/2.0	EC-2 Type 1 Req'd
Ditch 14	152-90	to	149-95	0.4	0.0	3.0/2.0	3.0/2.0	EC-2 Type 1 Req'd
Ditch 18	153-82	to	154-03	1.0	0.0	2.0	2.0	PG-2A Req'd
Ditch 31	501-57	to	173-85	0.6	0.0	3.0	3.0	EC-2 Type 1 Req'd
Left								
Ditch 1	102-93	to	103-73	-	0.0	3.0	3.0	N/A
Ditch 2	105-72	to	103-73	1.1	0.0	3.0	3.0	EC-2 Type 1 Req'd
Ditch 3	107-09	to	106-06	0.5	0.0	3.0	3.0	EC-2 Type 1 Req'd
Ditch 5	10-00	to	14-22	0.9	0.0	3.0	5.0/6.0	EC-2 Type 1 Req'd
Ditch 8	112-28	to	113-08	0.9	0.0	3.0	3.0	EC-2 Type 1 Req'd
Ditch 61	124-12	to	120-78	1.3	8.0	2.0	2.0	EC-2 Type 1 Req'd
Ditch 10	145-40	to	145-56	0.7	0.0	3.0	3.0	EC-2 Type 1 Req'd
Ditch 13	152-47	to	148-00	1.0	0.0	2.0	2.0	PG-2A Req'd
	148-00	to	147-91	1.0	2.0	2.0	2.0	PG-5 Req'd
Ditch 15	152-39	to	151-52	0.9	0.0	3.0	3.0	EC-2 Type 1 Req'd
	151-52	to	150-38	1.2	0.0	3.0	3.0/4.0	EC-2 Type 1 Req'd
Ditch 16	153-91	to	153-38	0.3	0.0	3.0	2.0	EC-2 Type 1 Req'd
Ditch 17	153-43	to	153-59	1.0	0.0	2.0	2.0	PG-2A Req'd
Ditch 58	164-42	to	102-77	1.5	8.0	2.0	2.0	EC-2 Type 1 Req'd
	102-77	to	103-93	1.0	1.2	2.0	2.0	EC-2 Type 1 Req'd
Ditch 33	182-34	to	179-71	-	0.0	2.0	2.0/4.0	N/A
Ditch 34	179-25	to	179-74	0.2	0.0	2.0	2.0	EC-2 Type 1 Req'd

Typical Ditch								
Rte. 234	Station	to	Station	D* (ft)	B (ft)	X (ft)	Y (ft)	Lining
Right								
Ditch 27	218-14	to	220-98	0.8	0.0	4.0/2.0	2.0	EC-2 Type 1 Req'd
Ditch 57	222-99	to	223-09	0.2	0.0	2.0	2.0	EC-2 Type 1 Req'd
Left								
Ditch 53	224-86	to	224-10	0.9	0.0	2.0	8.0	EC-2 Type 1 Req'd
Center								
Ditch 44	241-32	to	240-00	-	0.0	4.0	4.0	N/A
	240-00	to	237-00	0.6	0.0	4.0	4.0	EC-2 Type 1 Req'd
	237-00	to	235-00	-	0.0	4.0	4.0	N/A
	235-00	to	232-00	0.6	0.0	4.0	4.0	EC-2 Type 1 Req'd
	232-00	to	231-00	-	0.0	4.9	8.3	N/A
Ditch 69	243-50	to	242-30	0.5	0.0	4.0	4.0	EC-2 Type 1 Req'd

Typical Ditch								
Devlin Road	Station	to	Station	D* (ft)	B (ft)	X (ft)	Y (ft)	Lining
Left								
Ditch 7	607-54	to	605-56	1.2	0.0	3.0	2.0	EC-2 Type 1 Req'd
Ditch 7A	605-00	to	603-00	1.4	0.0	3.0	2.0	EC-2 Type 1 Req'd
Ditch 6	602-52	to	601-53	1.4	0.0	3.0	2.0	EC-2 Type 1 Req'd
	601-53	to	600-59	1.0	0.0	3.0	2.0	EC-2 Type 1 Req'd

Typical Ditch								
Ramp 1A	Station	to	Station	D* (ft)	B (ft)	X (ft)	Y (ft)	Lining
Right								
Ditch 35	107-24	to	109-25	0.5	0.0	4.0/5.0	4.0	EC-2 Type 1 Req'd
	109-25	to	109-40	0.3	0.0	2.0	2.0	EC-2 Type 4 Req'd
Ditch 36	151-42	to	111-50	1.4	0.0	4.0/6.0/5.0	4.0/3.0	EC-2 Type 1 Req'd
	111-50	to	109-44	1.4	0.0	4.0/2.0	4.0/2.0	EC-2 Type 1 Req'd
Ditch 37	117-09	to	116-66	0.9	0.0	4.0	4.0	EC-2 Type 1 Req'd
Ditch 39	124-93	to	121-75	1.2	0.0	2.0	2.0	EC-2 Type 1 Req'd
	121-75	** to	118-89	**	0.0	Varies	Varies	EC-2 Type 1 Req'd
Ditch 40	131-54	to	131-00	0.4	0.0	2.0	2.0	EC-2 Type 1 Req'd
	131-00	to	128-00	-	0.0	2.0	2.0	N/A
	128-00	to	125-97	1.0	0.0	2.0	2.0	EC-2 Type 1 Req'd
Ditch 41	131-54	to	134-25	-	0.0	2.0	2.0	N/A
Left								
Ditch 59	101-00	to	102-75	0.6	0.0	2.0	2.0	EC-2 Type 1 Req'd
	102-75	to	102-95	0.3	0.0	2.0	2.0	EC-2 Type 4 Req'd
Ditch 54	107-25	to	110-78	-	0.0	4.0	4.0	N/A
Ditch 55	112-00	to	110-78	0.3	0.0	5.0	4.0	EC-2 Type 1 Req'd
Ditch 60	106-80	to	103-96	1.0	0.0	2.0	2.0	EC-2 Type 1 Req'd

Typical Ditch								
Ramp 1B	Station	to	Station	D* (ft)	B (ft)	X (ft)	Y (ft)	Lining
Left								
Ditch 38	155-34	to	154-39	-	0.0	6.0	2.0	N/A
	154-39	to	152-39	-	0.0	6.0	4.0	N/A

Typical Ditch								
Ramp 2A	Station	to	Station	D* (ft)	B (ft)	X (ft)	Y (ft)	Lining
Right								
Ditch 42	41-96	to	41-00	-	0.0	6.0	6.0	N/A
Ditch 43	41-96	to	46-50	-	0.0	2.0	2.0	N/A
	46-50	to	50-25	1.0	0.0	2.0	2.0	EC-2 Type 1 Req'd
	50-25	to	52-00	1.3	0.0	4.0	4.0	EC-2 Type 1 Req'd
	52-00	to	81-00	0.8	3.0	4.0	4.0	EC-2 Type 4 Req'd
	81-00	to	81-95	0.7	3.0	11.0	4.0	EC-2 Type 4 Req'd
Ditch 48	82-24	to	63-14	0.8	0.0	2.0	2.0	EC-2 Type 1 Req'd
Ditch 62	55-18	to	55-98	1.8	2.0	2.0	4.0	EC-2 Type 1 Req'd
Ditch 63	56-63	to	63-14	2.3	2.0	2.0	2.0	EC-2 Type 1 Req'd
Left								
Ditch 49	68-34	to	62-71	0.7	0.0	2.0	2.0	EC-2 Type 1 Req'd
Ditch 50	68-47	to	17-00	1.0	0.0	2.0	2.0	EC-2 Type 1 Req'd
	17-00	to	17-53	0.7	0.0	2.0	2.0	EC-2 Type 4 Req'd

Typical Ditch								
Ramp 2B	Station	to	Station	D* (ft)	B (ft)	X (ft)	Y (ft)	Lining
Right								
Ditch 45	85-25	to	84-50	1.2	0.0	4.0	4.0	EC-2 Type 1 Req'd
	84-50	to	83-65	1.5	0.0	4.0	4.0	EC-2 Type 1 Req'd
Ditch 64	83-61	to	82-82	0.6	0.0	4.0	4.0	EC-2 Type 1 Req'd
Ditch 65	82-00	to	82-78	0.6	0.0	8.0	4.0	EC-2 Type 1 Req'd

Typical Ditch								
Ramp 3	Station	to	Station	D* (ft)	B (ft)	X (ft)	Y (ft)	Lining
Right								
Ditch 19	254-35	to	254-18	0.4	0.0	2.0	2.0	EC-2 Type 1 Req'd
	254-18	to	253-55	-	0.0	2.0	2.0	N/A

Typical Ditch								
Ramp 3A	Station	to	Station	D* (ft)	B (ft)	X (ft)	Y (ft)	Lining
Right								
Ditch 22	306-34	to	311-50	0.8	0.0	4.0/2.0	4.0	EC-2 Type 1 Req'd
	311-50	to	315-27	1.6	0.0	2.0/4.0	4.0/2.0/6.0	EC-2 Type 1 Req'd
Left								
Ditch 29	306-43	to	18-00	1.0	0.0	3.0/2.0	3.0/2.0	EC-2 Type 1 Req'd
Ditch 51	306-43	to	307-25	-	0.0	4.0	6.0	N/A
	307-25	to	311-83	1.1	0.0	4.0/2.0	4.0/5.0/2.0	EC-2 Type 1 Req'd
Ditch 52	313-71	to	311-83	0.5	0.0	2.0	4.0/2.0	EC-2 Type 1 Req'd

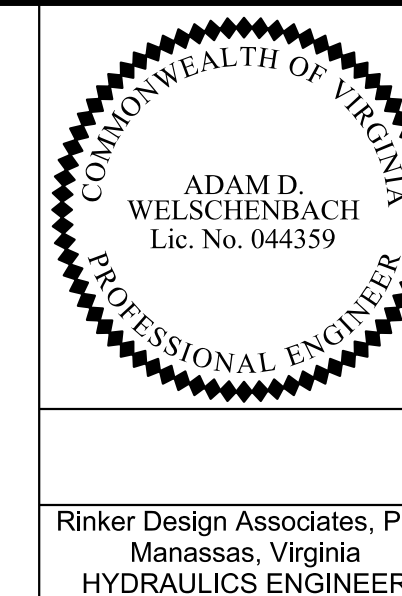
Typical Ditch								
Balls Ford Road	Station	to	Station	D* (ft)	B (ft)	X (ft)	Y (ft)	Lining
Right								
Ditch 32	170-36	to	173-44	1.4	0.0	3.0	3.0	EC-2 Type 1 Req'd
	173-44	to	173-79	0.7	0.0	3.0	3.0	EC-2 Type 4 Req'd

Typical Ditch								
Ramp 4A	Station	to	Station	D* (ft)	B (ft)	X (ft)	Y (ft)	Lining
Left								
Ditch 23	410-95	to	413-08	0.3	0.0	4.0	5.0/6.0	EC-2 Type 1 Req'd
Ditch 24	417-26	to	413-08	-	0.0	4.0	4.0/6.0	N/A
Ditch 26	419-75	to	420-50	0.9	0.0	2.0	3.0	EC-2 Type 1 Req'd
	420-50	to	19-46	1.3	0.0	2.5/2.0	2.0	EC-2 Type 1 Req'd
Right								
Ditch 25	500-55	to	414-45	0.5	0.0	4.0/5.0/6.0	4.0	EC-2 Type 1 Req'd

Typical Major Channel									
Balls Ford Road	Station	to	Station	D* (ft)	B (ft)	X (ft)	Y (ft)	Freeboard (ft)	Lining
Left									
Channel 1	114-26	to	113-18	2.7	6.0	3.0	3.0		

PROJECT MANAGER PWC_DOT, Mary Ankers (703) 792-4228
SURVEYED BY, DATE Rinker Design Associates, P.C. (703) 369-7373, April 2020
DESIGN BY Rinker Design Associates, Mark Gunn, P.E. (703) 368-7373
SUBSURFACE UTILITY BY, DATE Accurmark (703) 635-3060, May 2020

DITCH PROFILES



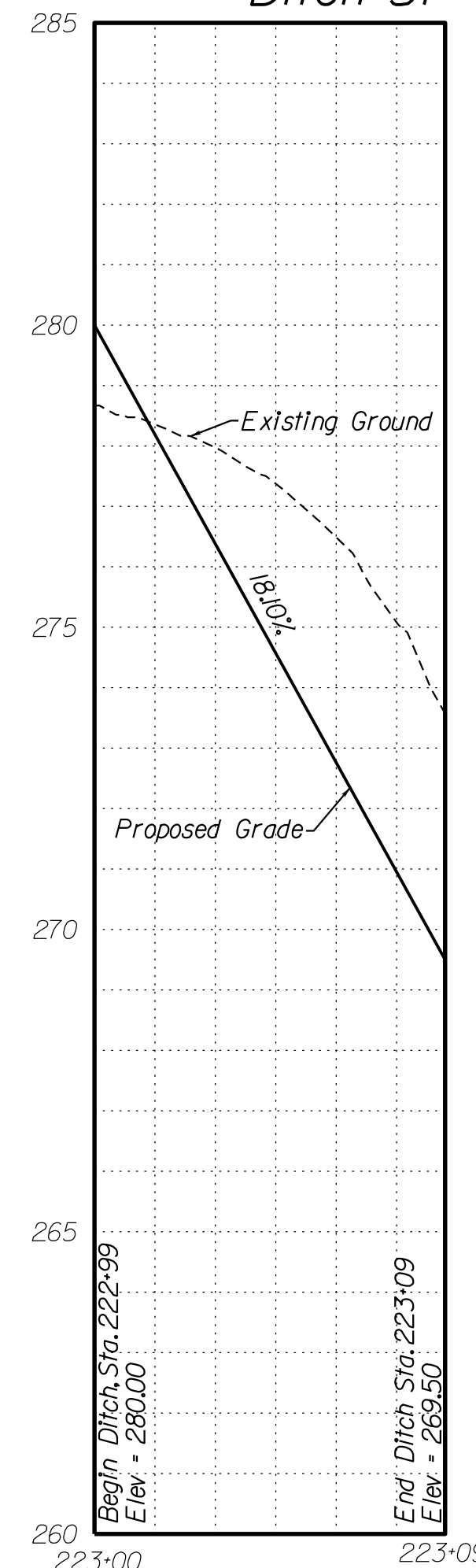
Rinker Design Associates, P.C.
Manassas, Virginia
HYDRAULICS ENGINEER

REVISED	STATE	ROUTE	STATE	PROJECT	SHEET NO.
NDC04	VA.	621		6234-076-266, C-501, RW-201	2M(1)

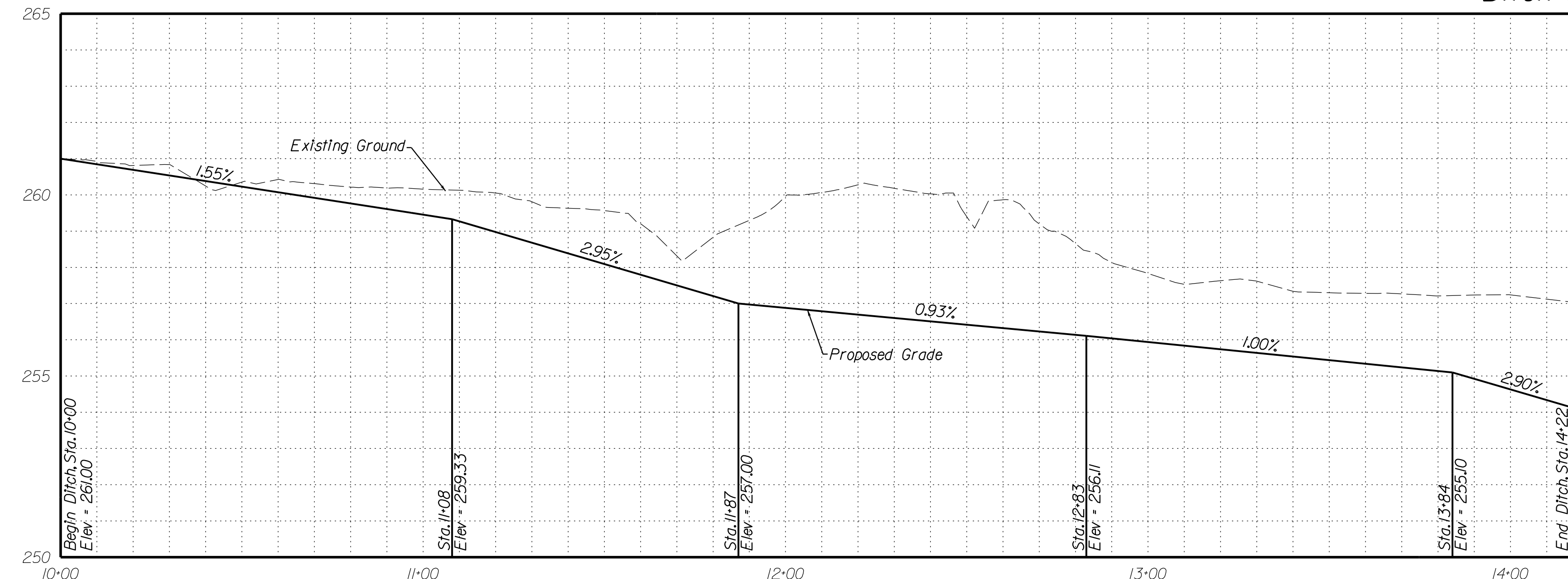
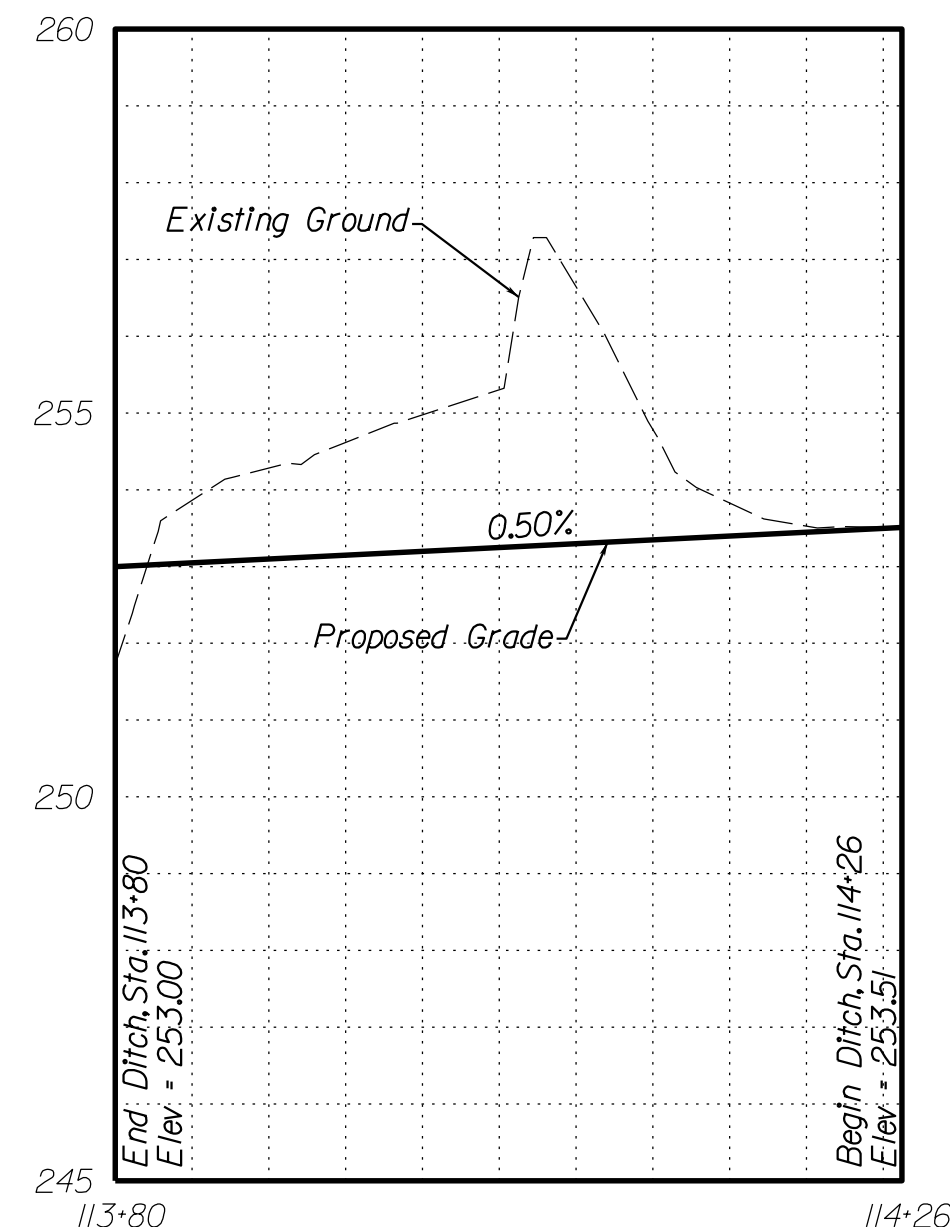
DESIGN FEATURES RELATING TO CONSTRUCTION
OR TO REGULATION AND CONTROL OF TRAFFIC
MAY BE SUBJECT TO CHANGE AS DEEMED
NECESSARY BY THE DEPARTMENT

04 Revised ditch profiles.

Ditch 57

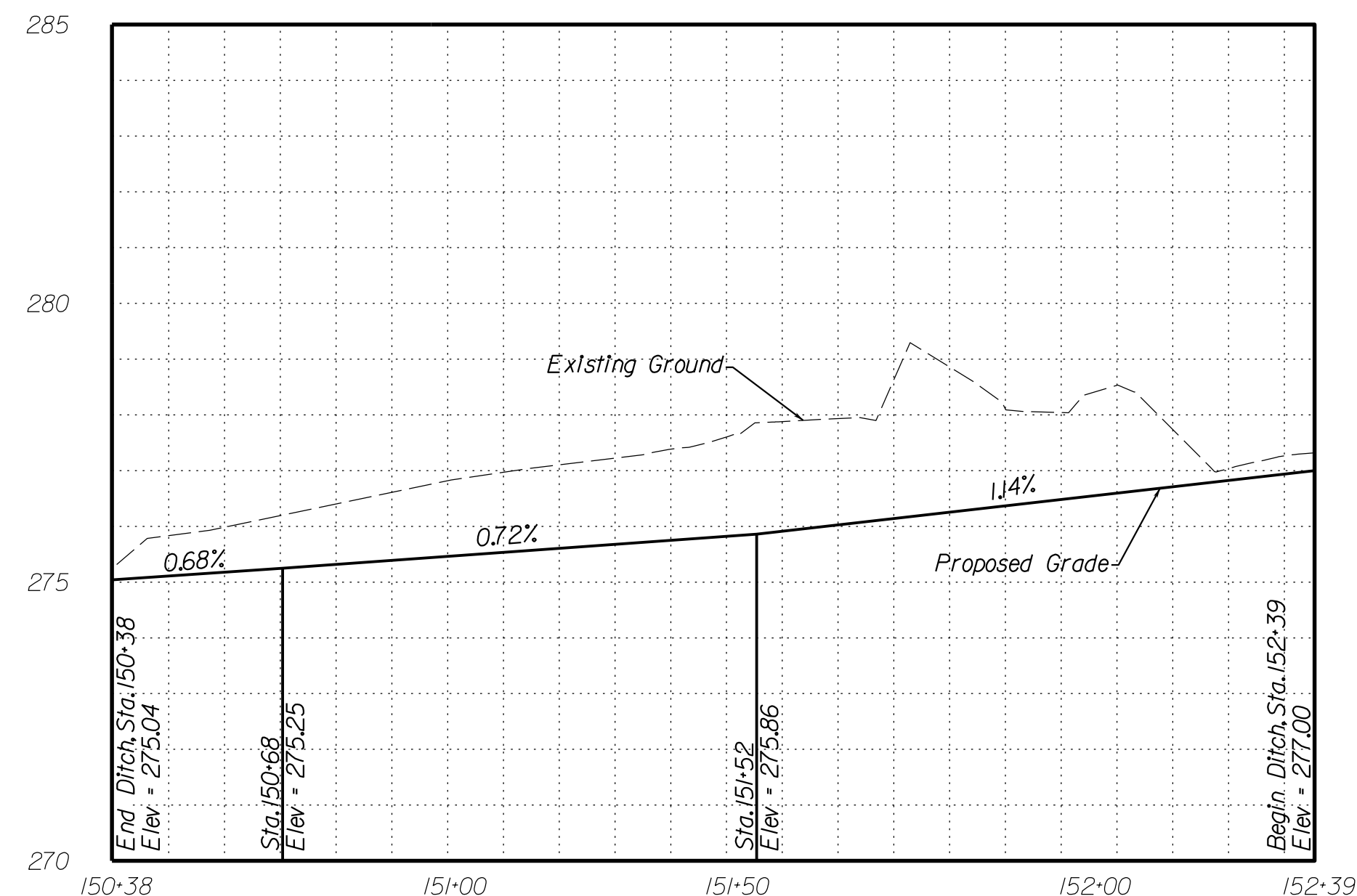


Ditch 4

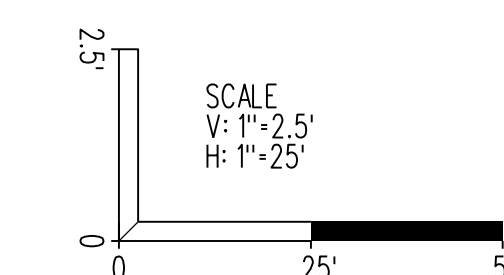
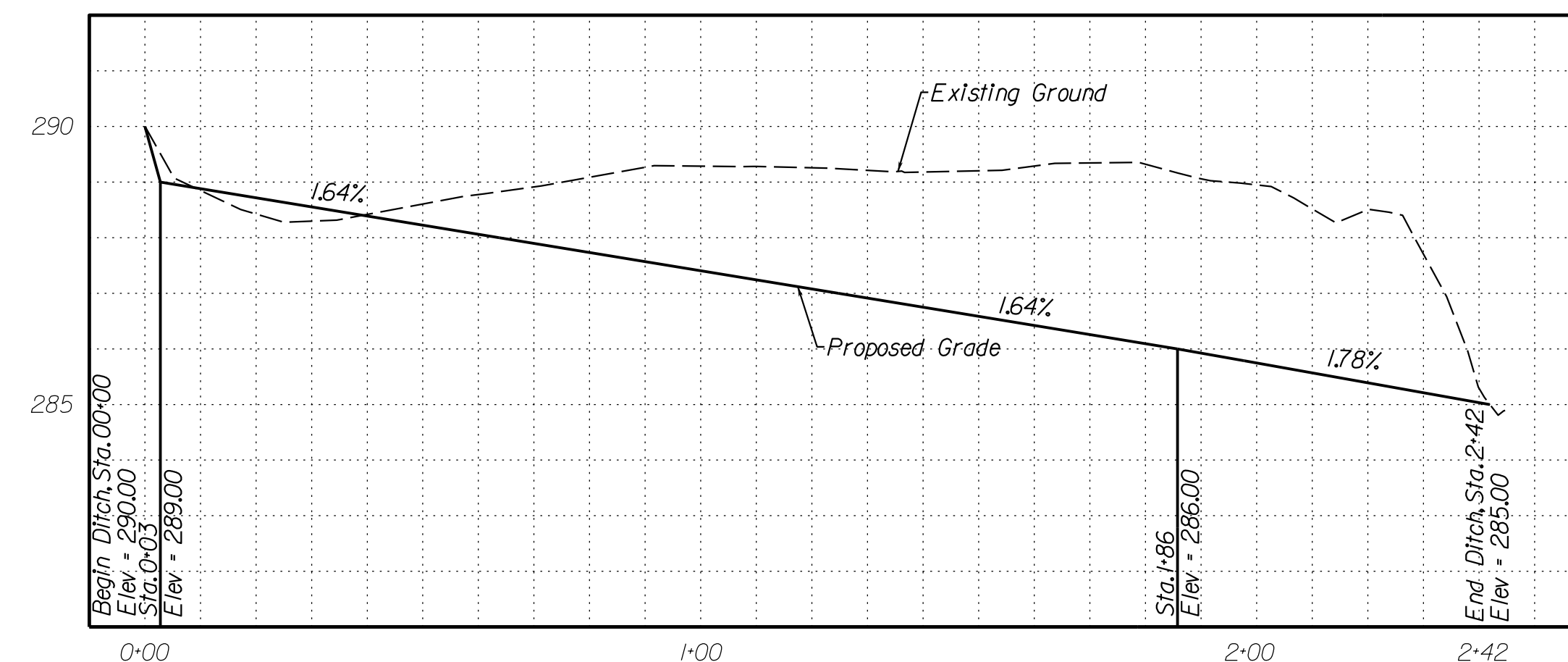


Ditch 5

Ditch 15



Ditch 66



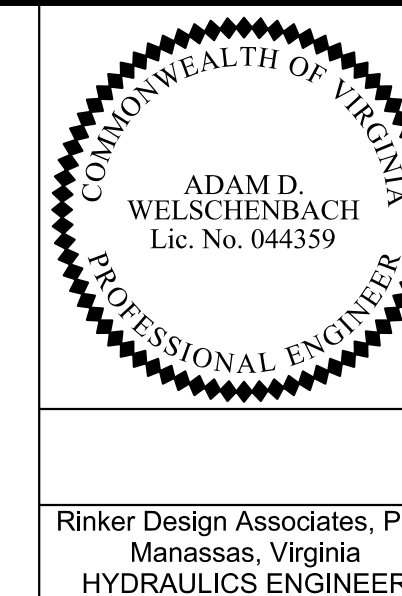
Office Locations
Rinker Design Associates, P.C.
Civil Engineering - Surveying - Land Planning
Transportation - Right of Way Services

LANE
NOVA DISTRICT DESIGN UNIT

PROJECT MANAGER PWC DOT, Mary Ankers (703) 792-4228
SURVEYED BY, DATE Rinker Design Associates, P.C. (703) 369-7373, April 2020
DESIGN BY Rinker Design Associates, Mark Gunn, P.E. (703) 368-7373
SUBSURFACE UTILITY BY, DATE Acumark (703) 635-3060, May 2020

04 Revised storm sewer profiles.

STORM SEWER PROFILES

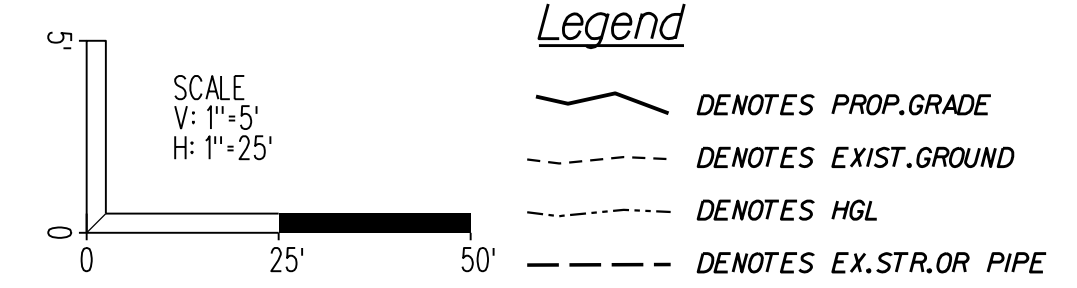
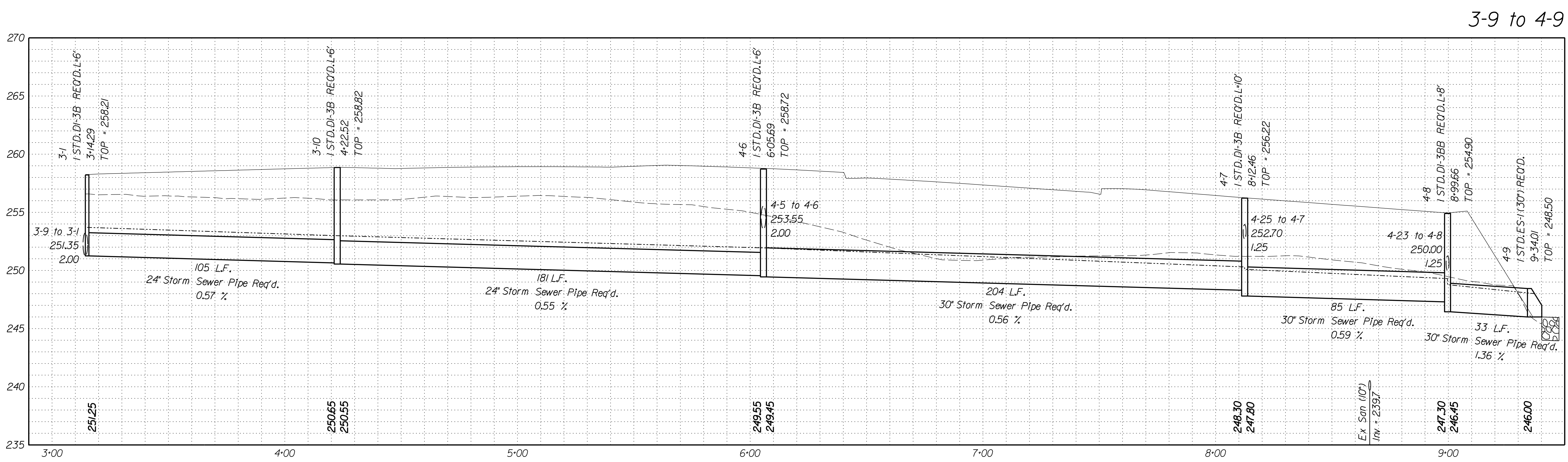
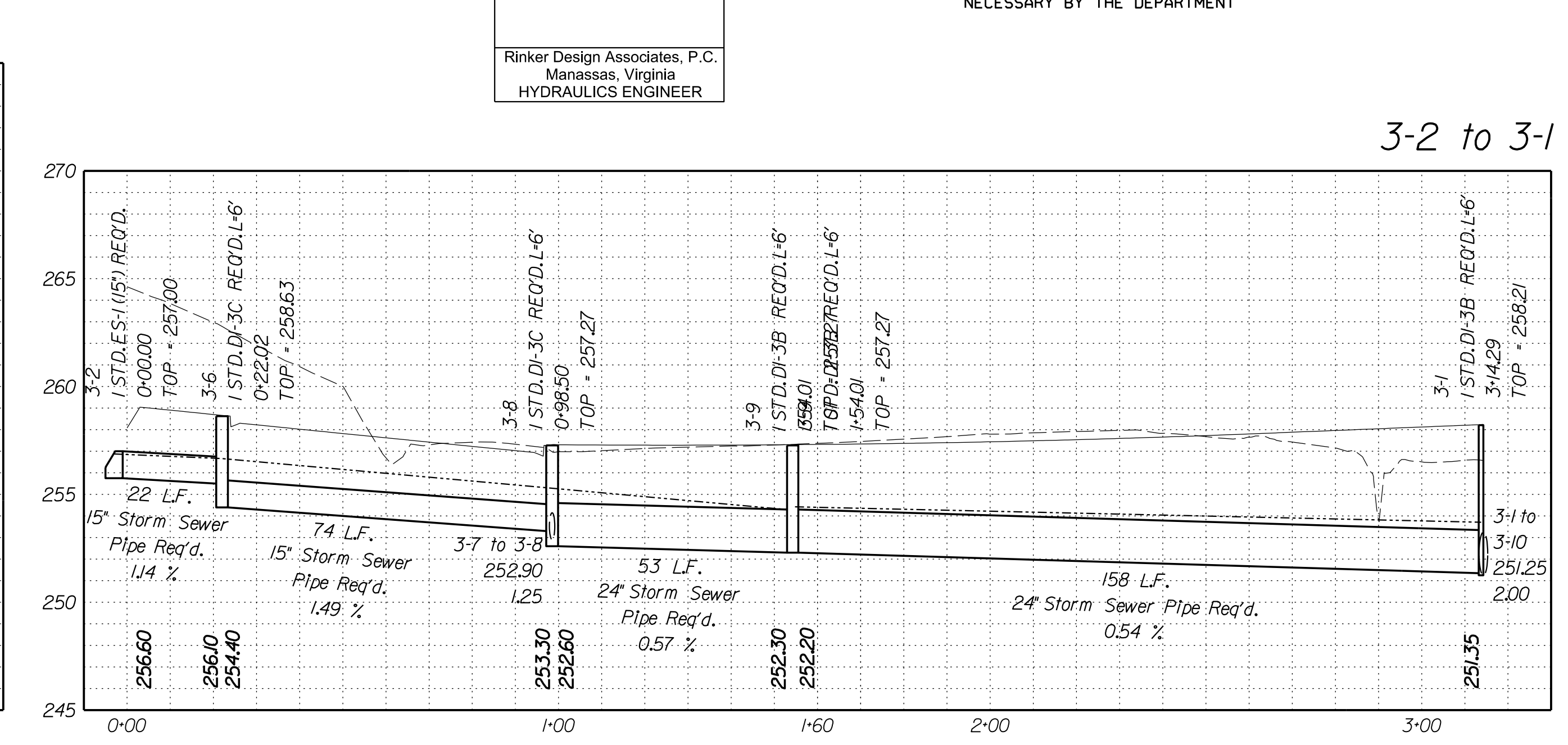
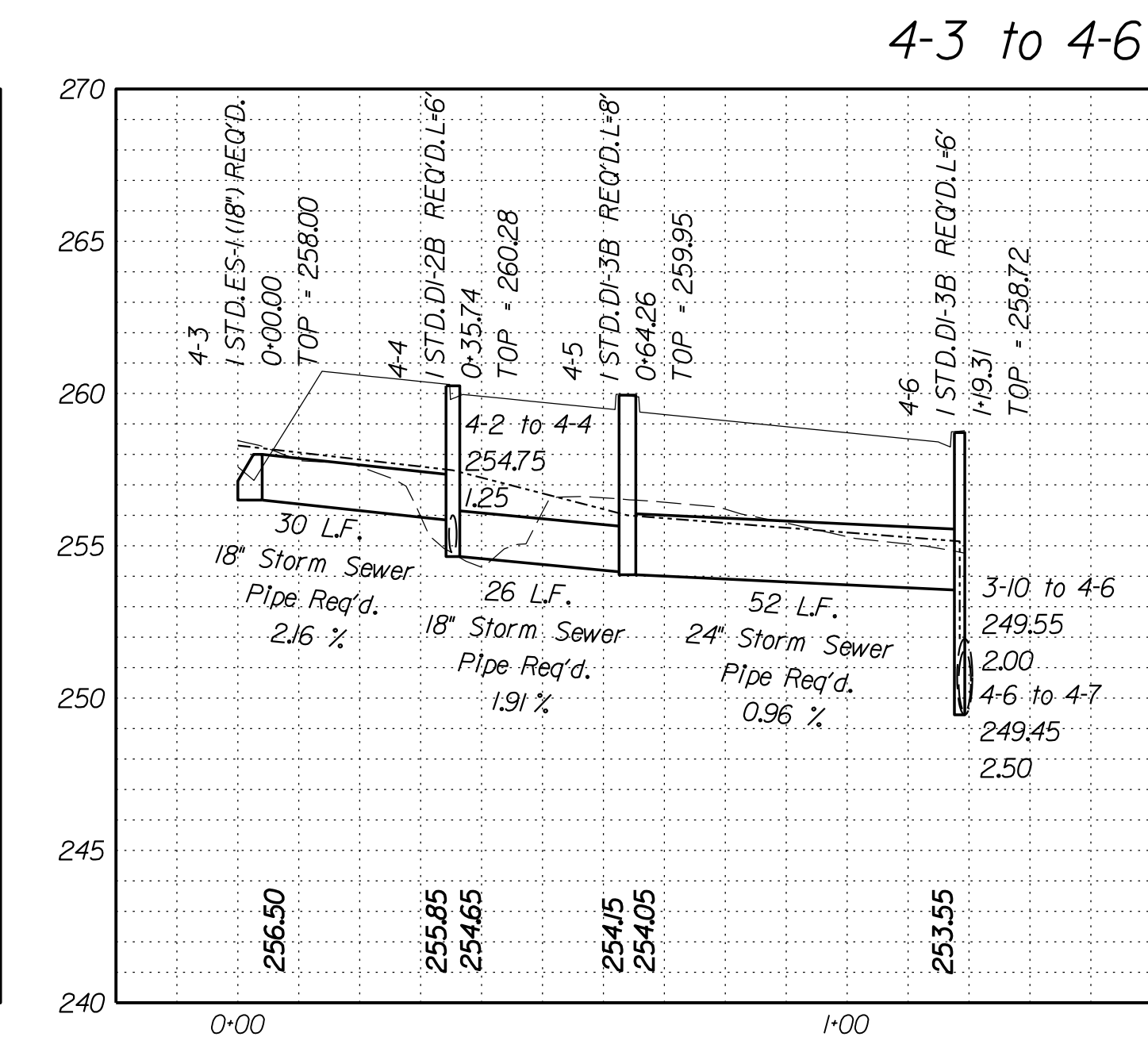
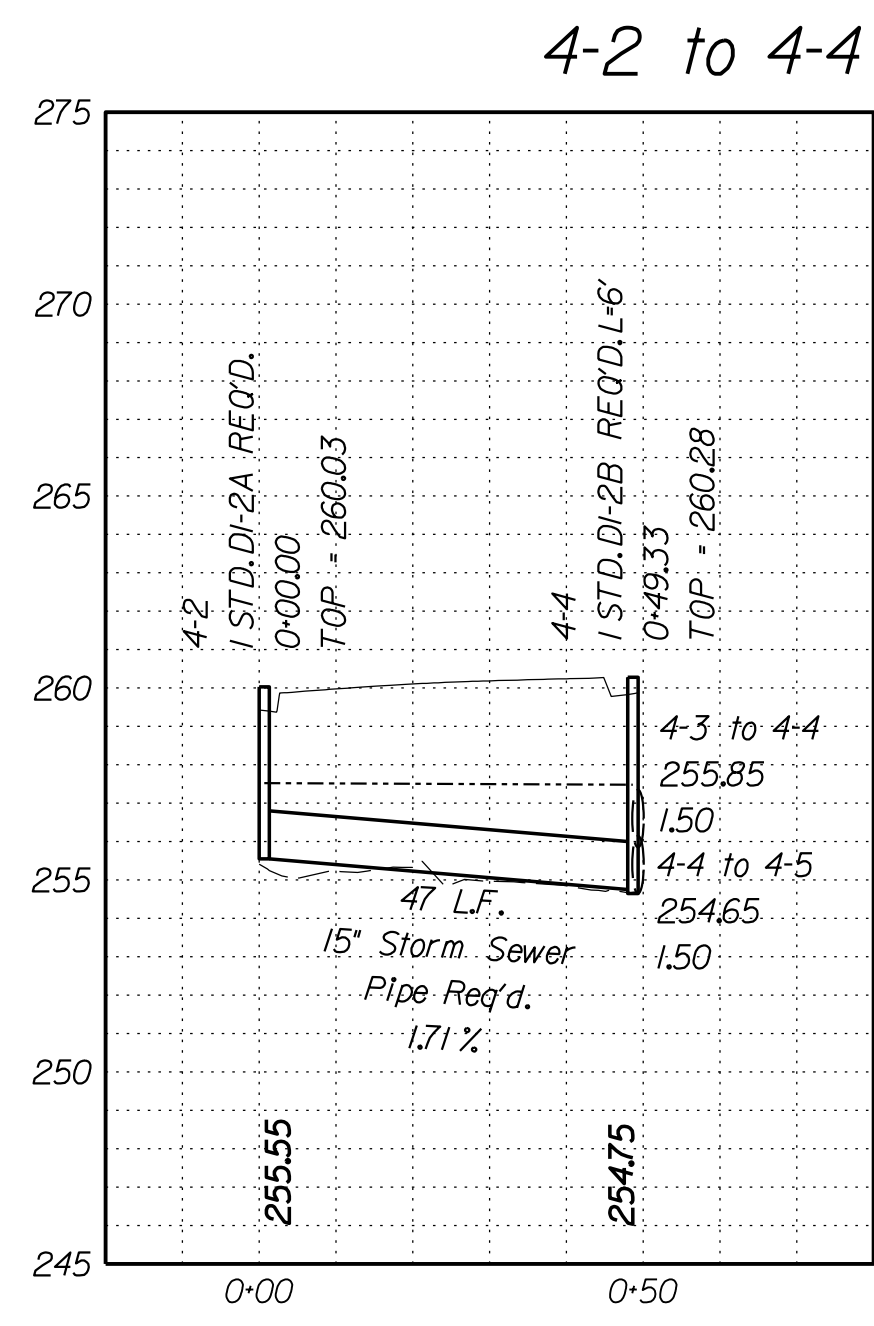
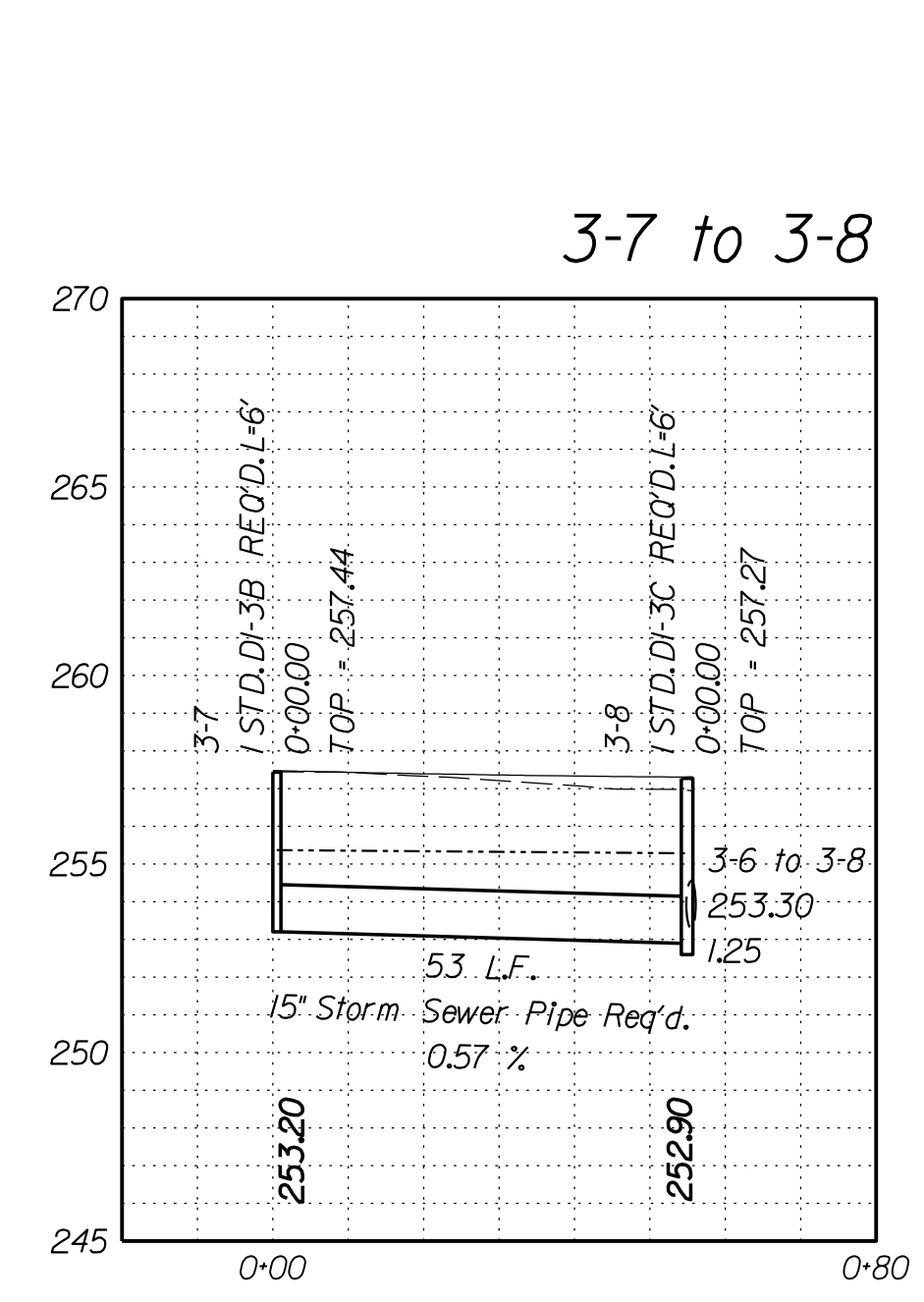


Rinker Design Associates, P.C.
Manassas, Virginia
HYDRAULICS ENGINEER

REVISED	STATE	ROUTE	STATE	PROJECT	SHEET NO.
NDC04	VA.	621		6234-076-266, C-501, RW-201	2N

DESIGN FEATURES RELATING TO CONSTRUCTION
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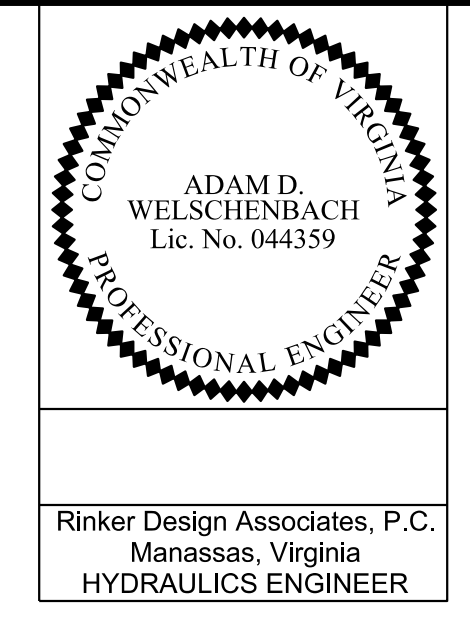
Office Locations: Virginia, North Carolina, South Carolina, Florida, Georgia, Alabama, Mississippi, Louisiana, Texas, Oklahoma, Kansas, Nebraska, Iowa, Missouri, Arkansas, Louisiana, Mississippi, Alabama, Georgia, Florida, South Carolina, North Carolina, Virginia
 Design Associates, P.C.
 Civil Engineering - Surveying - Land Planning
 Environmental Engineering - Transportation
 Right of Way Services
 LANE DISTRICT DESIGN UNIT
 7/1/2021



VDOT PROJECT 6234-076-266 PNC PROJECT SPR2020-00383 S03	SHEET NO. 2N
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PROJECT MANAGER PWC_DOT, Mary Ankers (703)792-4228
SURVEYED BY, DATE Rinker Design Associates, P.C. (703) 369-7373, April 2020
DESIGN BY Rinker Design Associates, Mark Gunn, P.E. (703) 368-7373
SUBSURFACE UTILITY BY, DATE Accurmark (703) 635-3060, May 2020

STORM SEWER PROFILES



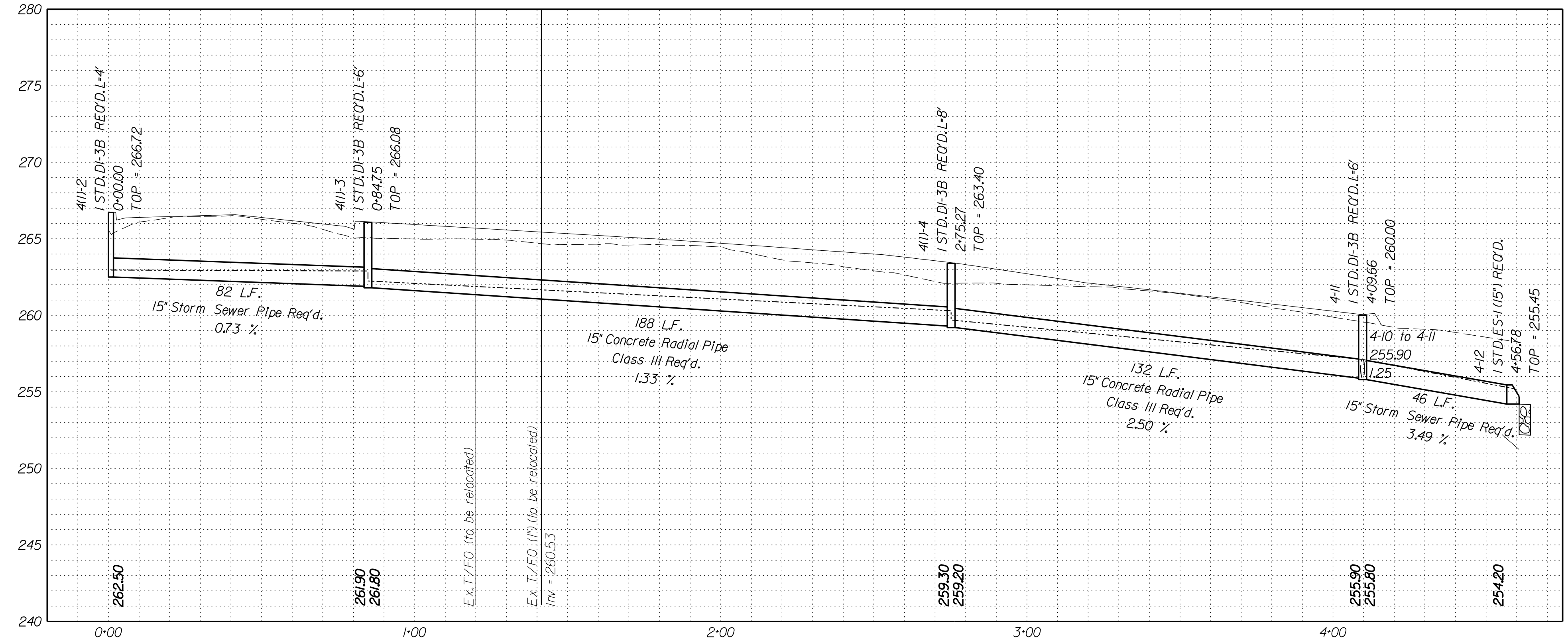
Rinker Design Associates, P.C.
Manassas, Virginia
HYDRAULICS ENGINEER

REVISED	STATE	ROUTE	PROJECT	SHEET NO.
NDC04	VA.	621	6234-076-266, C-501, RW-201	2N(1)

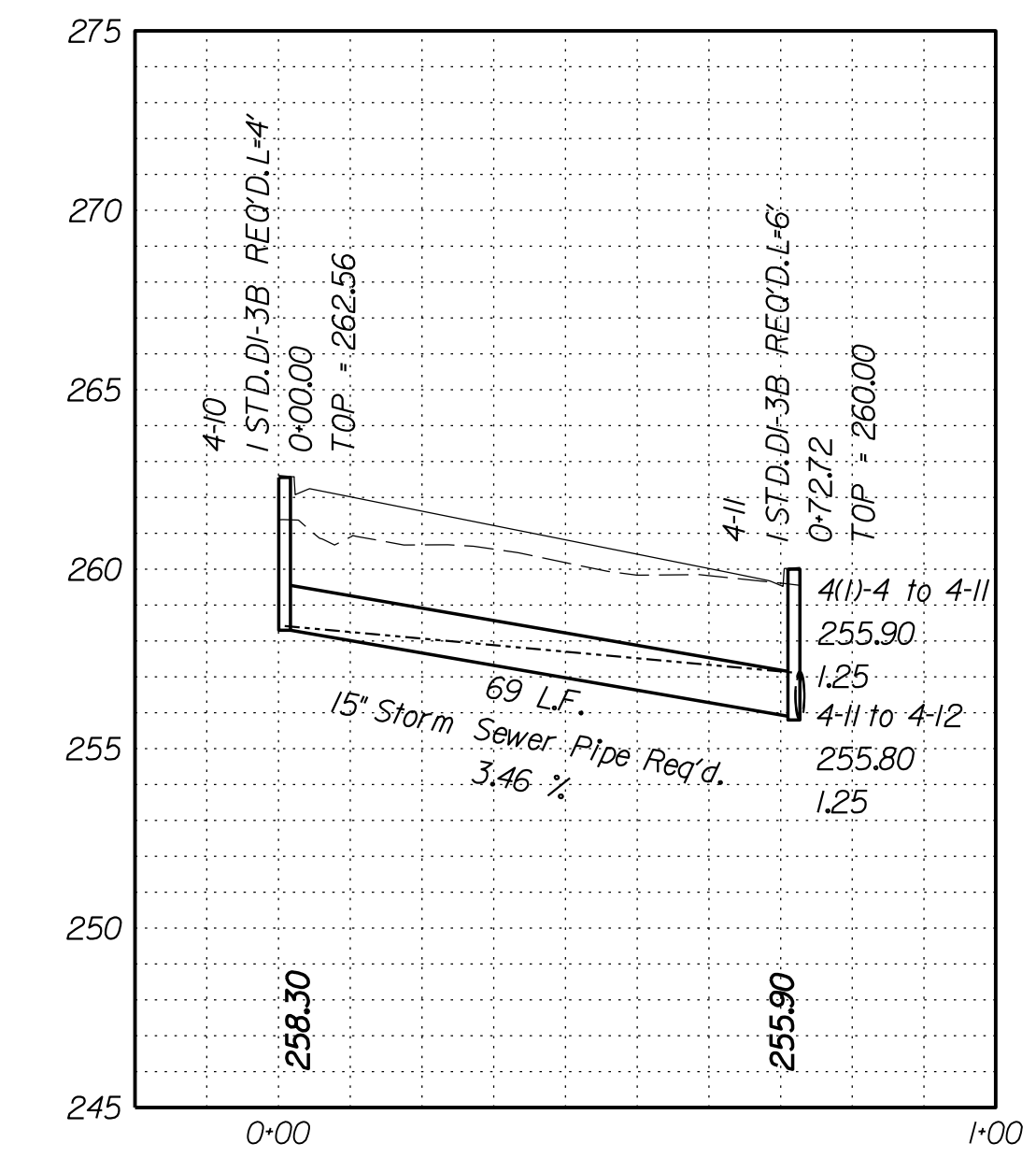
DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT

Ⓞ Revised storm sewer profiles.

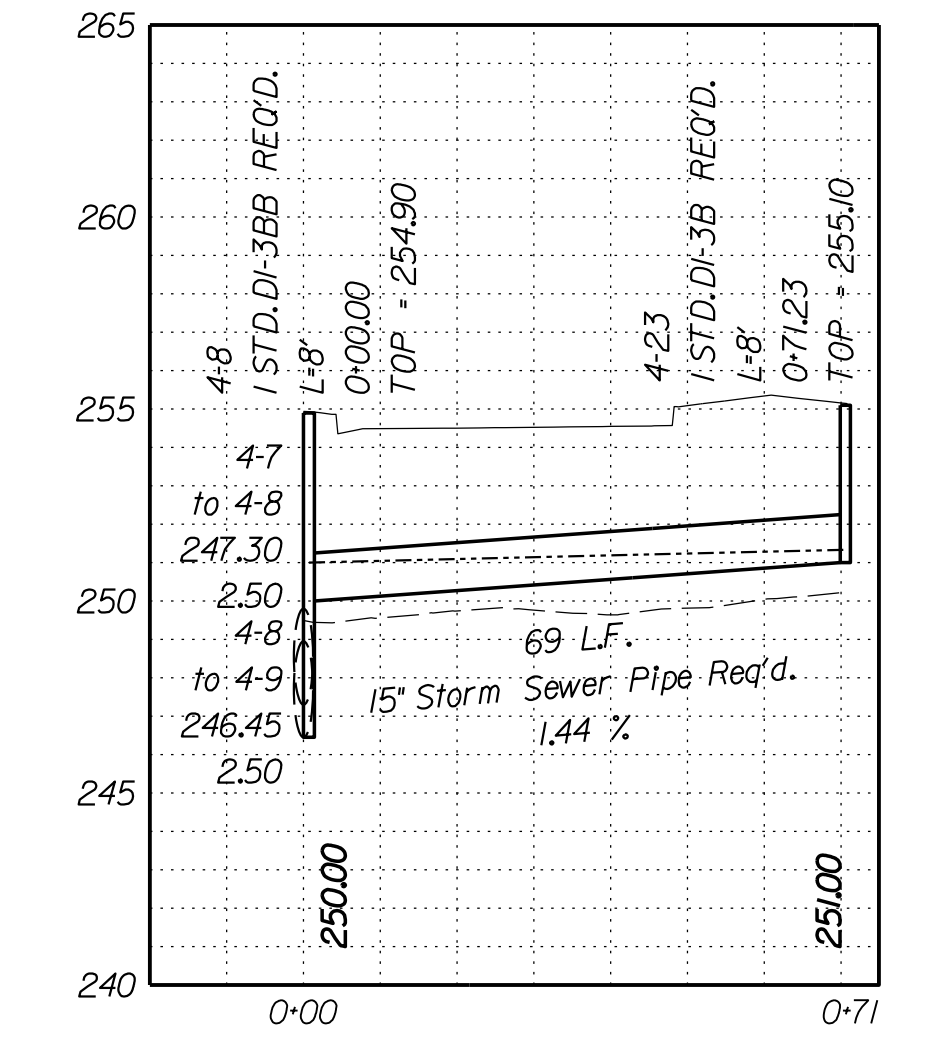
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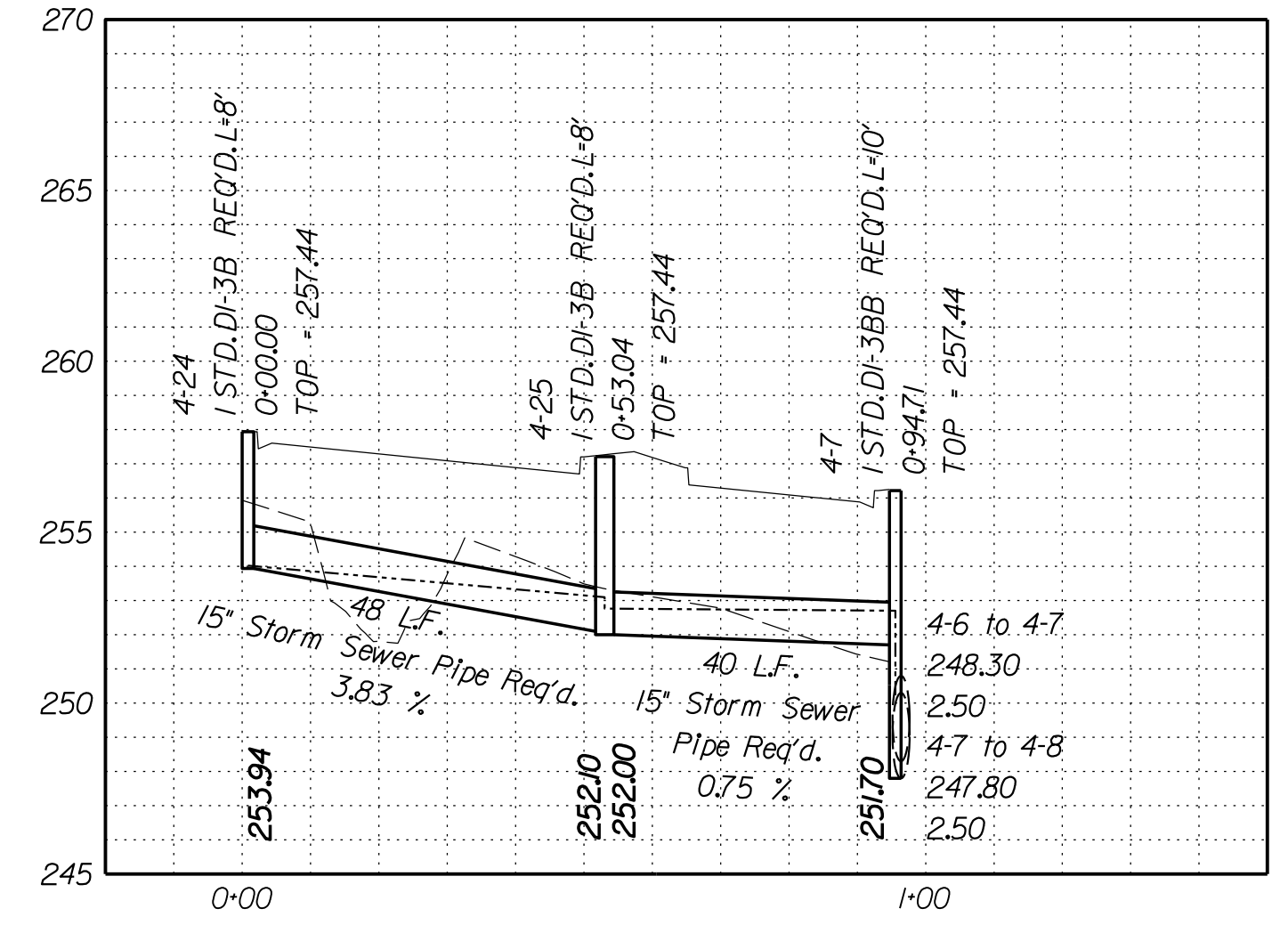
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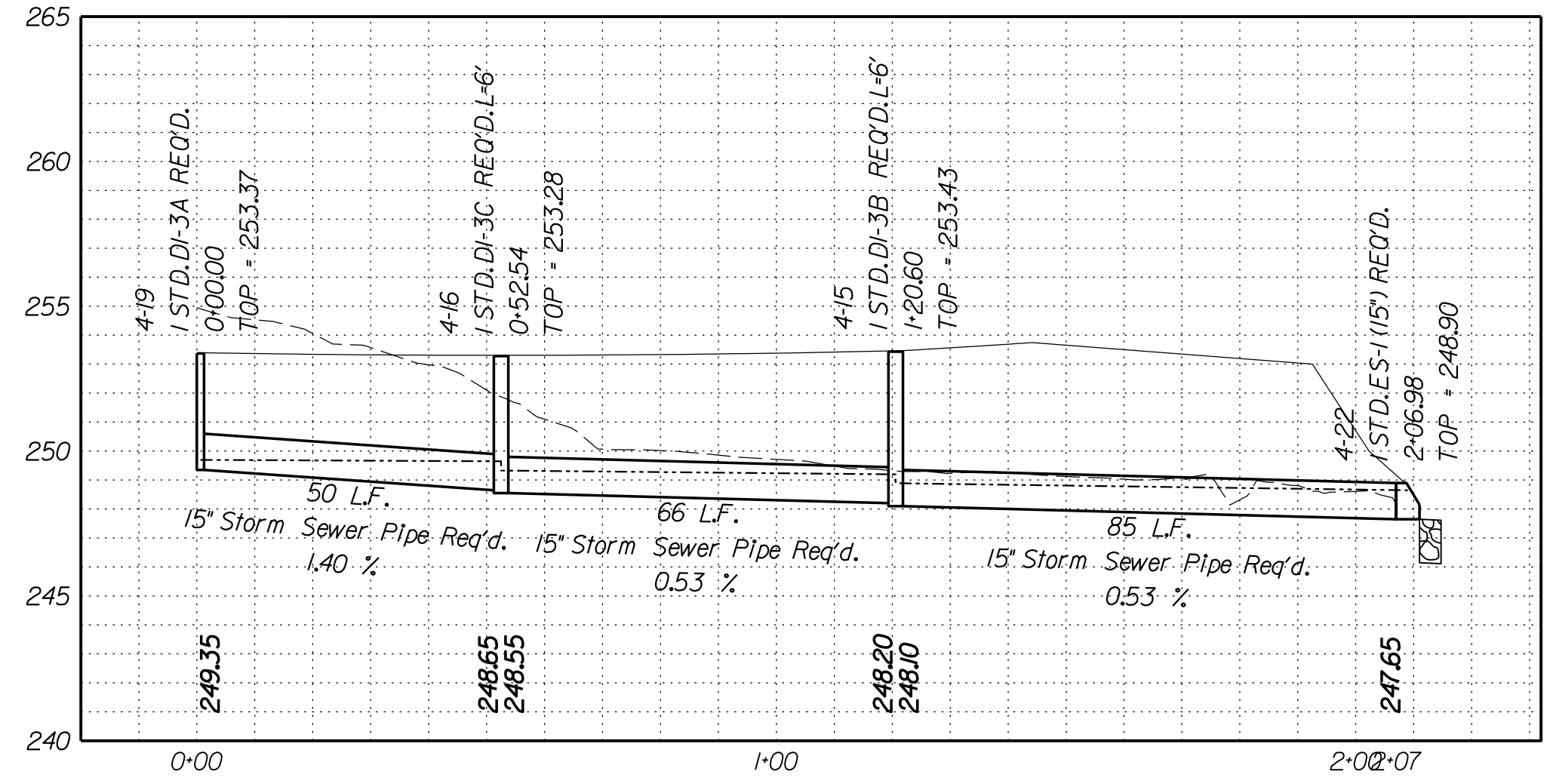
4-8 to 4-23



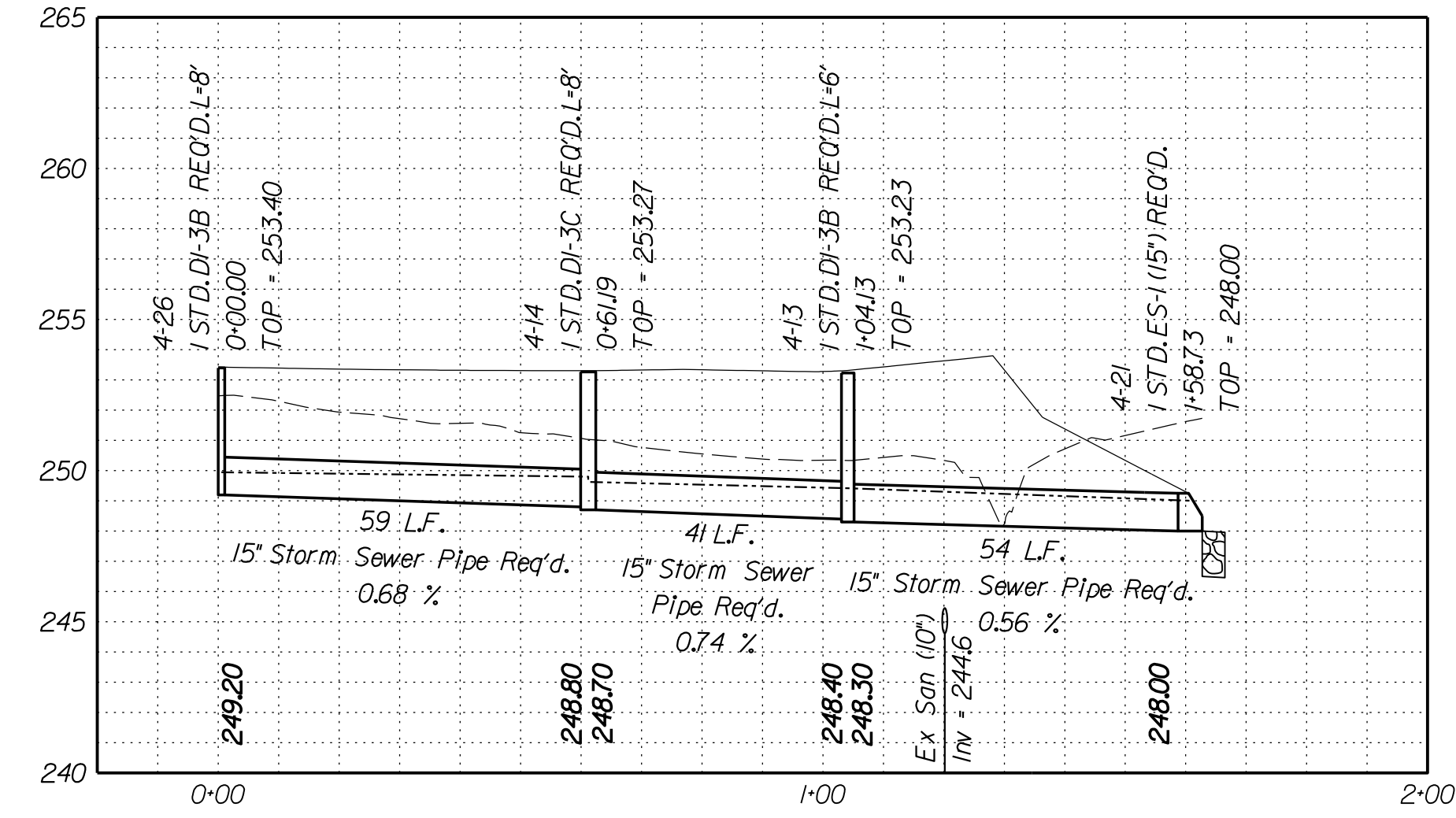
4-24 to 4-7



4-19 to 4-22



4-26 to 4-21



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

Legend

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

VDOT PROJECT 6234-076-266 PNC PROJECT SPR2020-00383 S03	SHEET NO. 2N(1)
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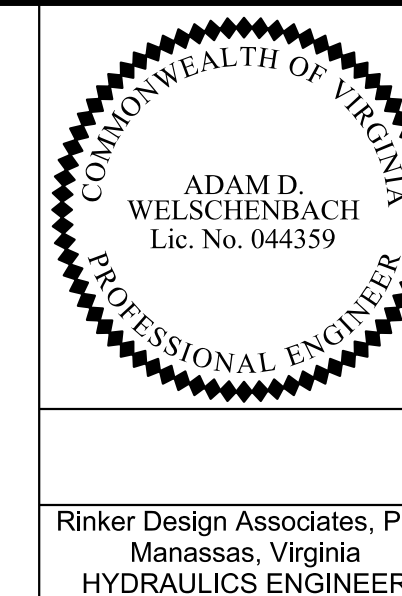
Office Locations
 Rinker Design Associates, P.C.
 10000 Woodloch Forest Drive, Suite 100
 Manassas, VA 20108
 (703) 369-7373
 www.rinker.com



NOVA DISTRICT DESIGN UNIT
 7/1/2021

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STORM SEWER PROFILES



Rinker Design Associates, P.C.
Manassas, Virginia
HYDRAULICS ENGINEER

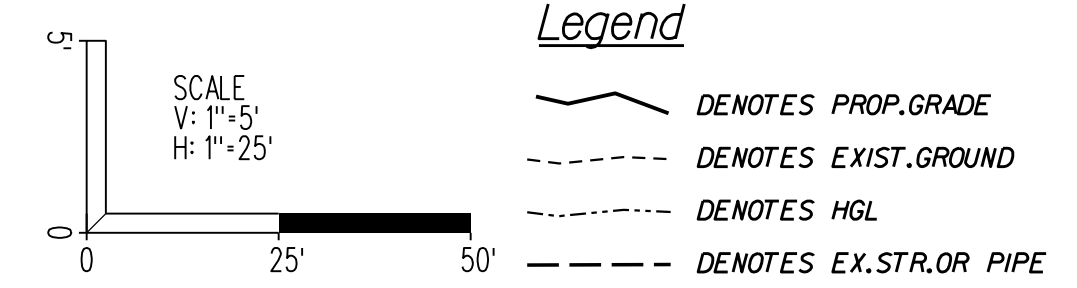
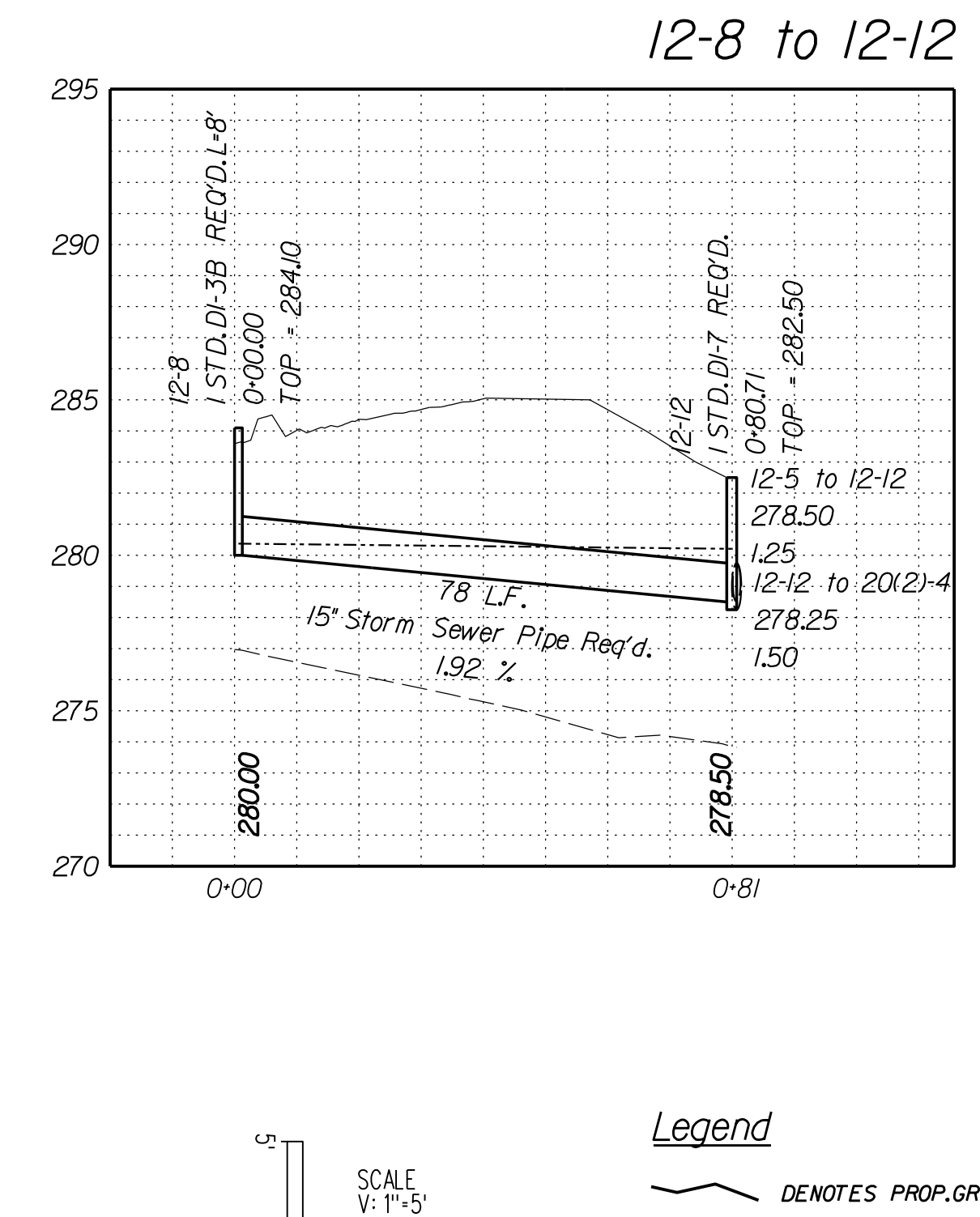
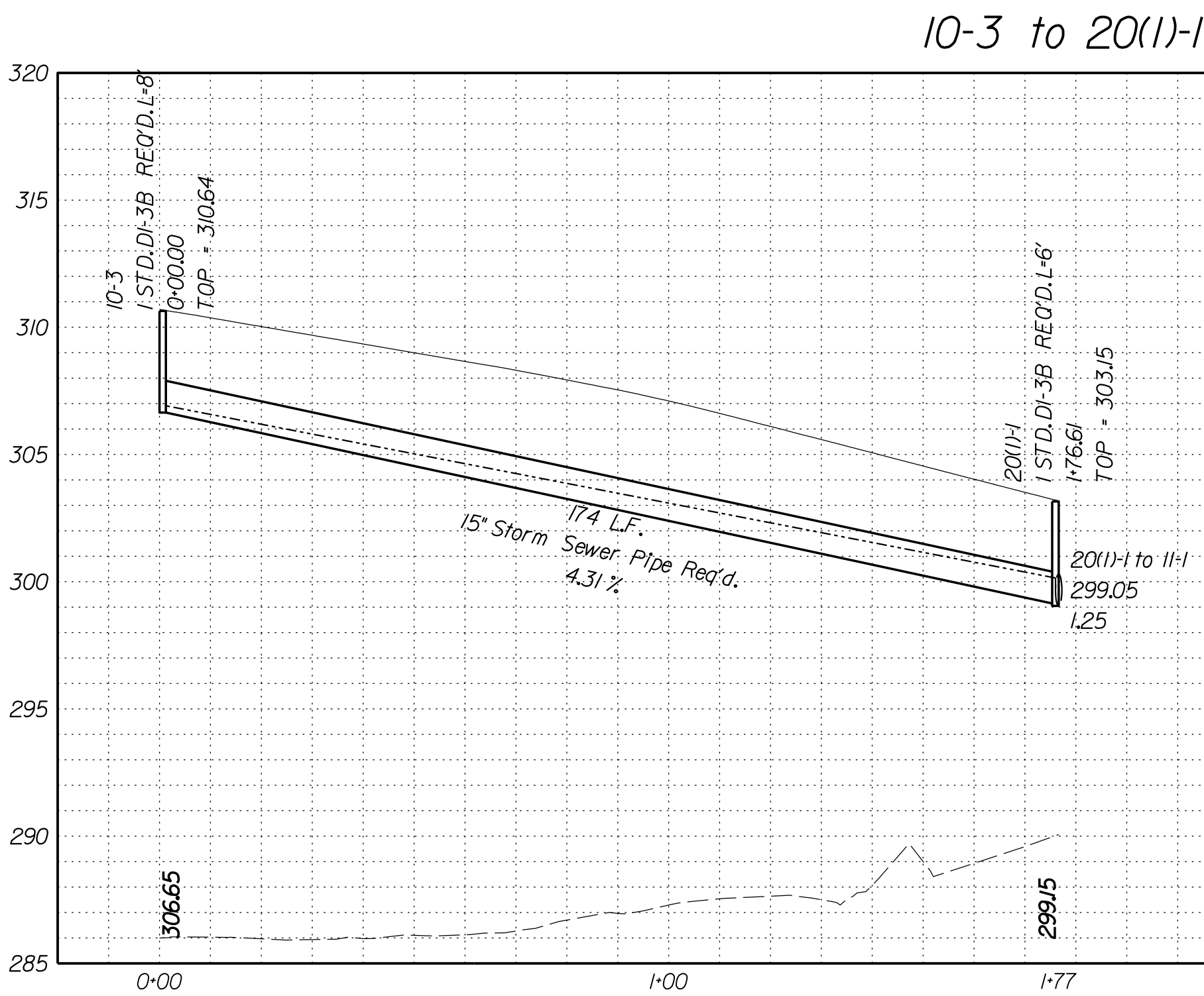
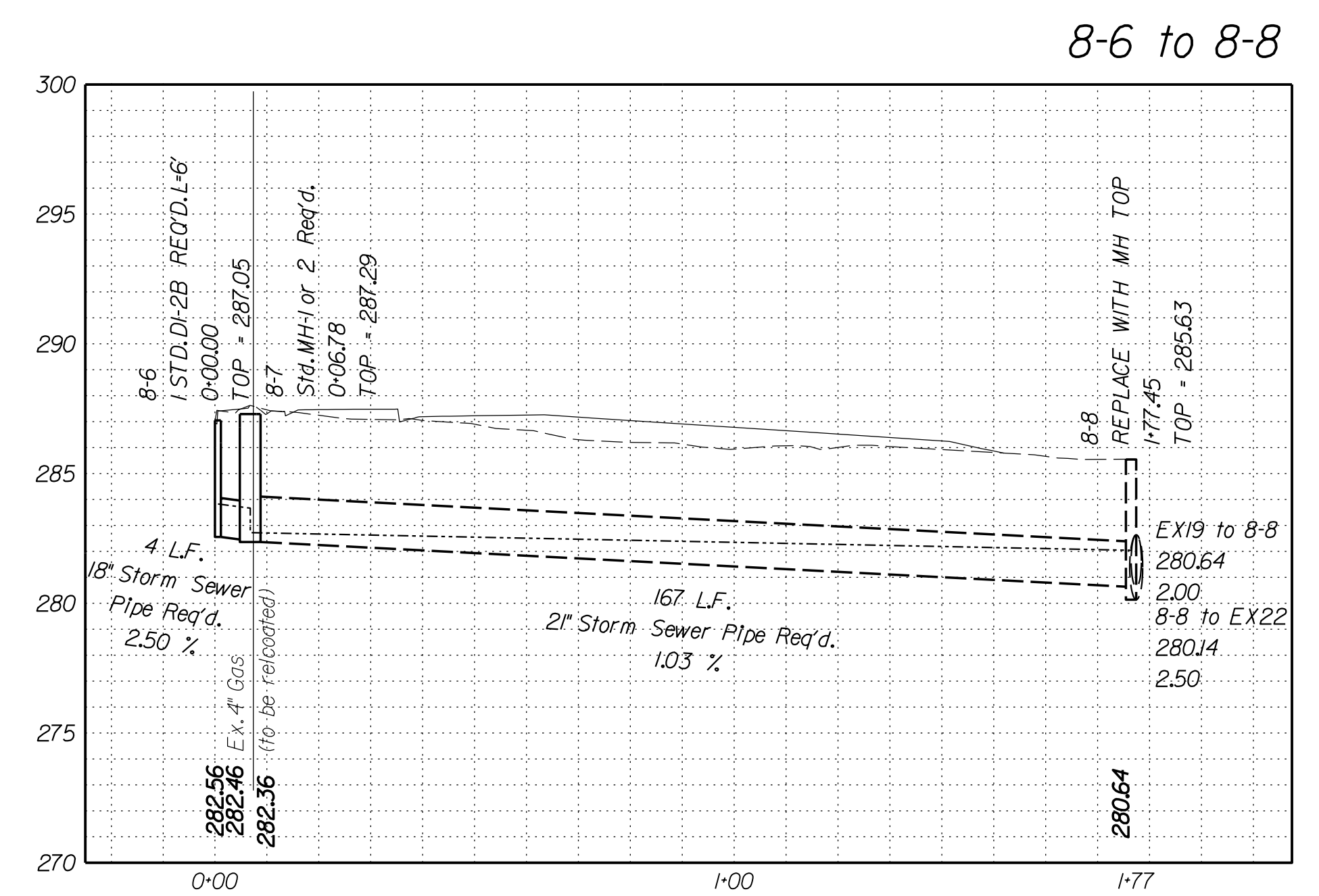
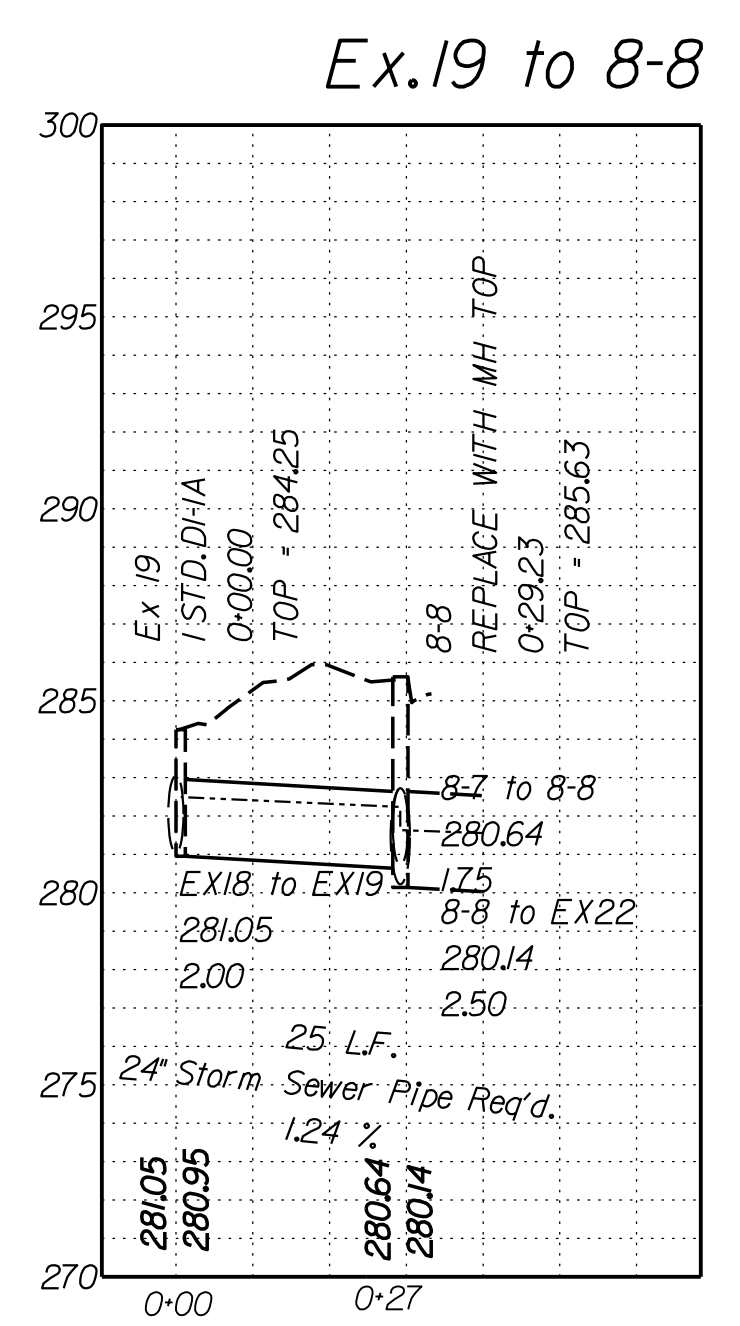
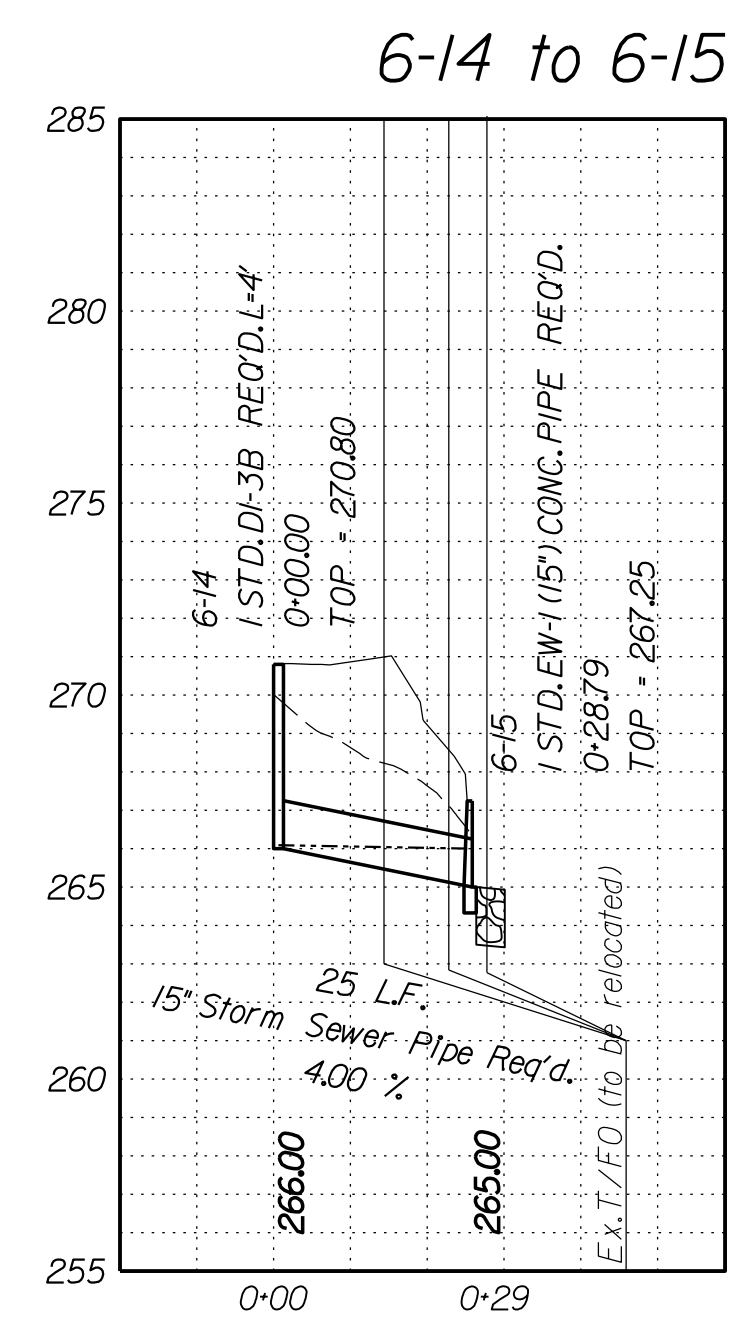
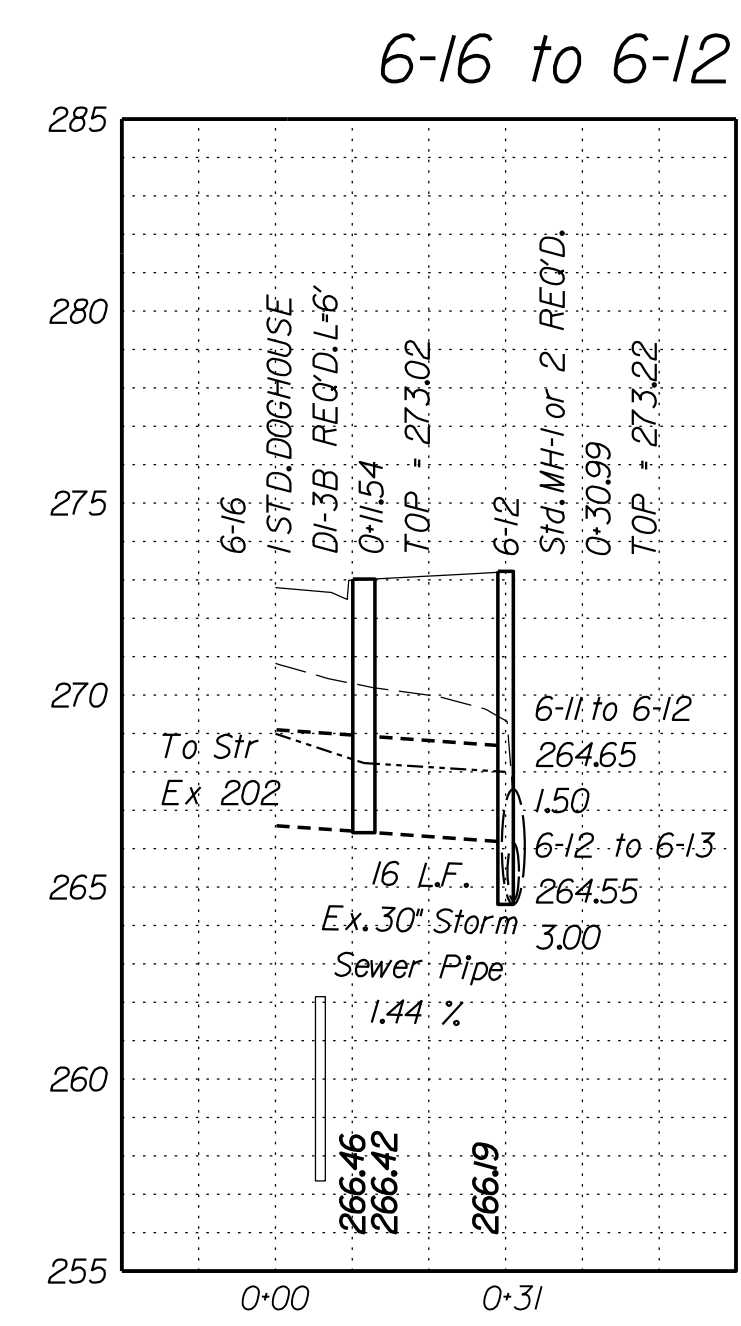
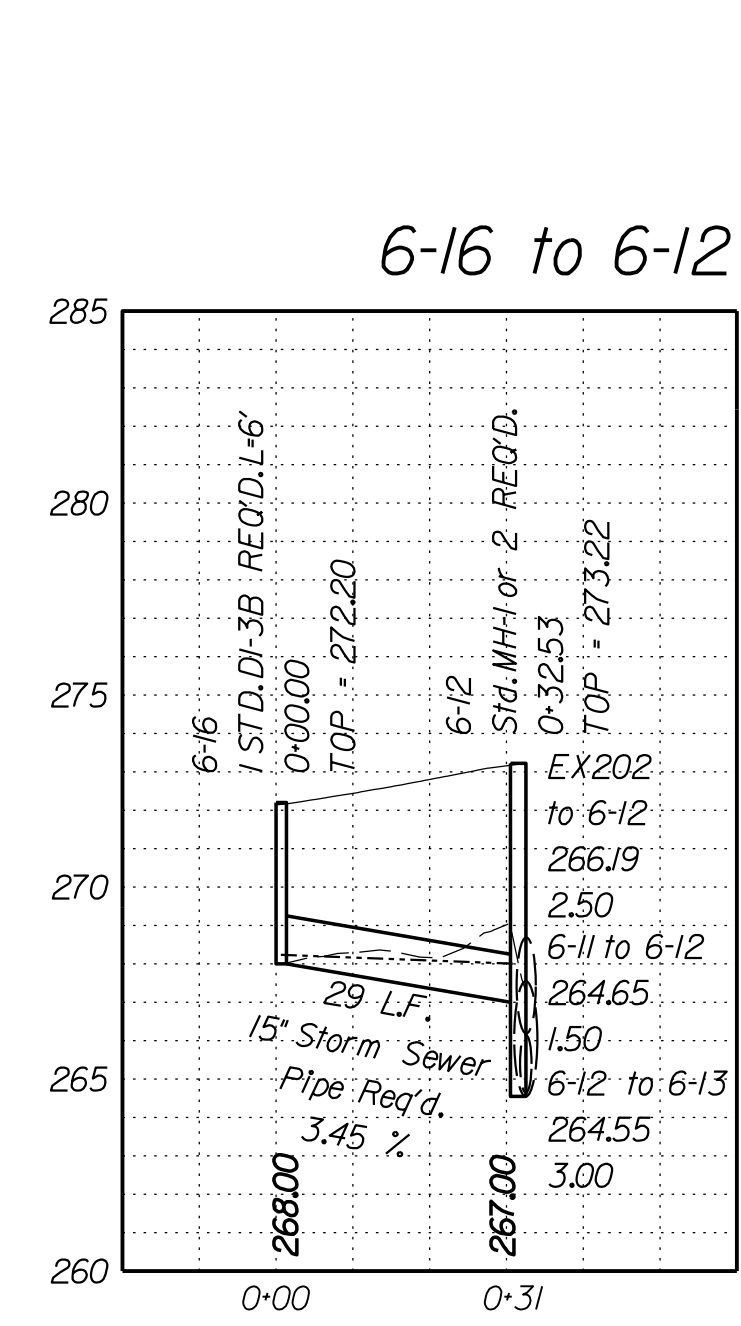
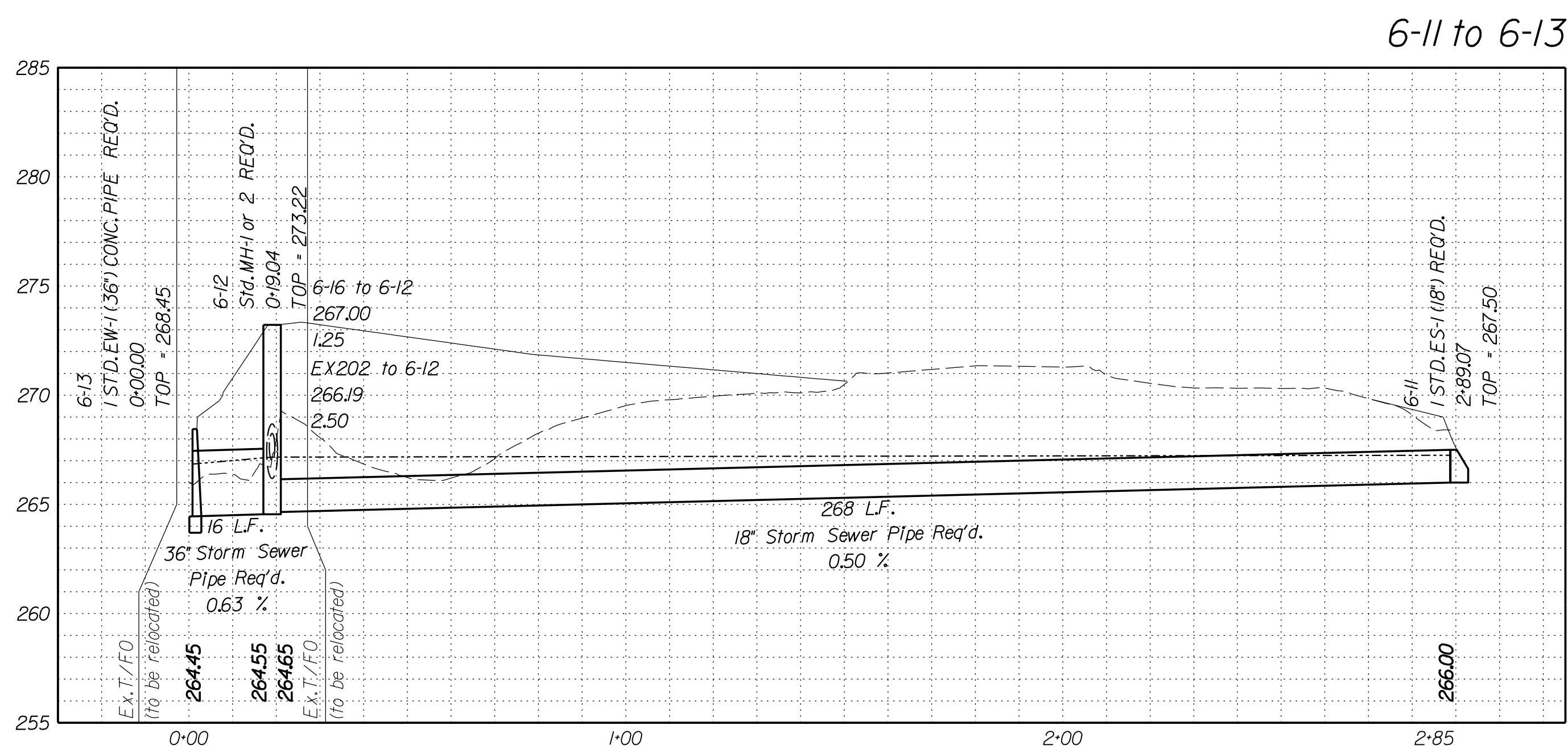
REVISED	STATE	ROUTE	PROJECT	SHEET NO.
	VA.	621	6234-076-266, C-501, RW-201	2N(2)

DESIGN FEATURES RELATING TO CONSTRUCTION
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NECESSARY BY THE DEPARTMENT

04 Reorganized storm sewer profiles.

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

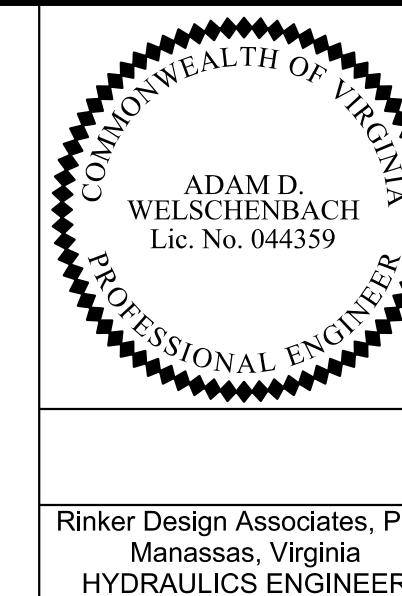
NOVA DISTRICT DESIGN UNIT



VDOT PROJECT 6234-076-266	SHEET NO. 2N(2)
PNC PROJECT SPR2020-00383 S03	

PROJECT MANAGER PWC_DOT, Mary Ankers (703) 792-4228
 SURVEYED BY, DATE Rinker Design Associates, P.C. (703) 369-7373, April 2020
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 SUBSURFACE UTILITY BY, DATE Accurmark (703) 635-3060, May 2020

STORM SEWER PROFILES

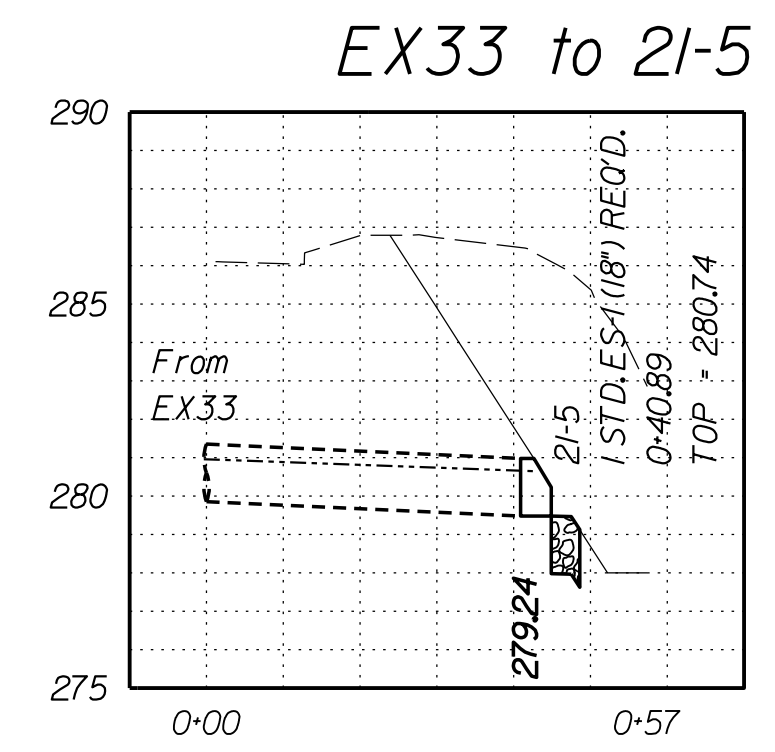
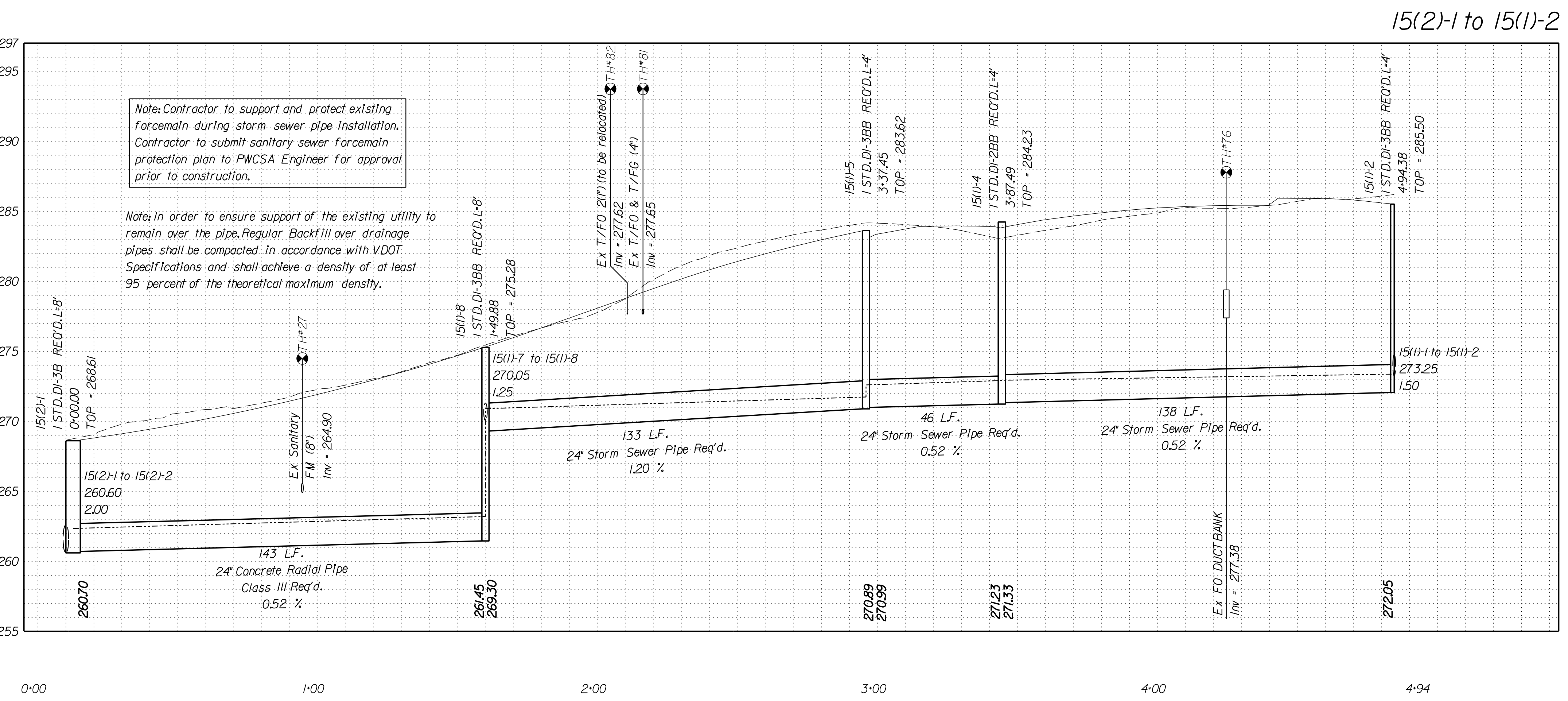
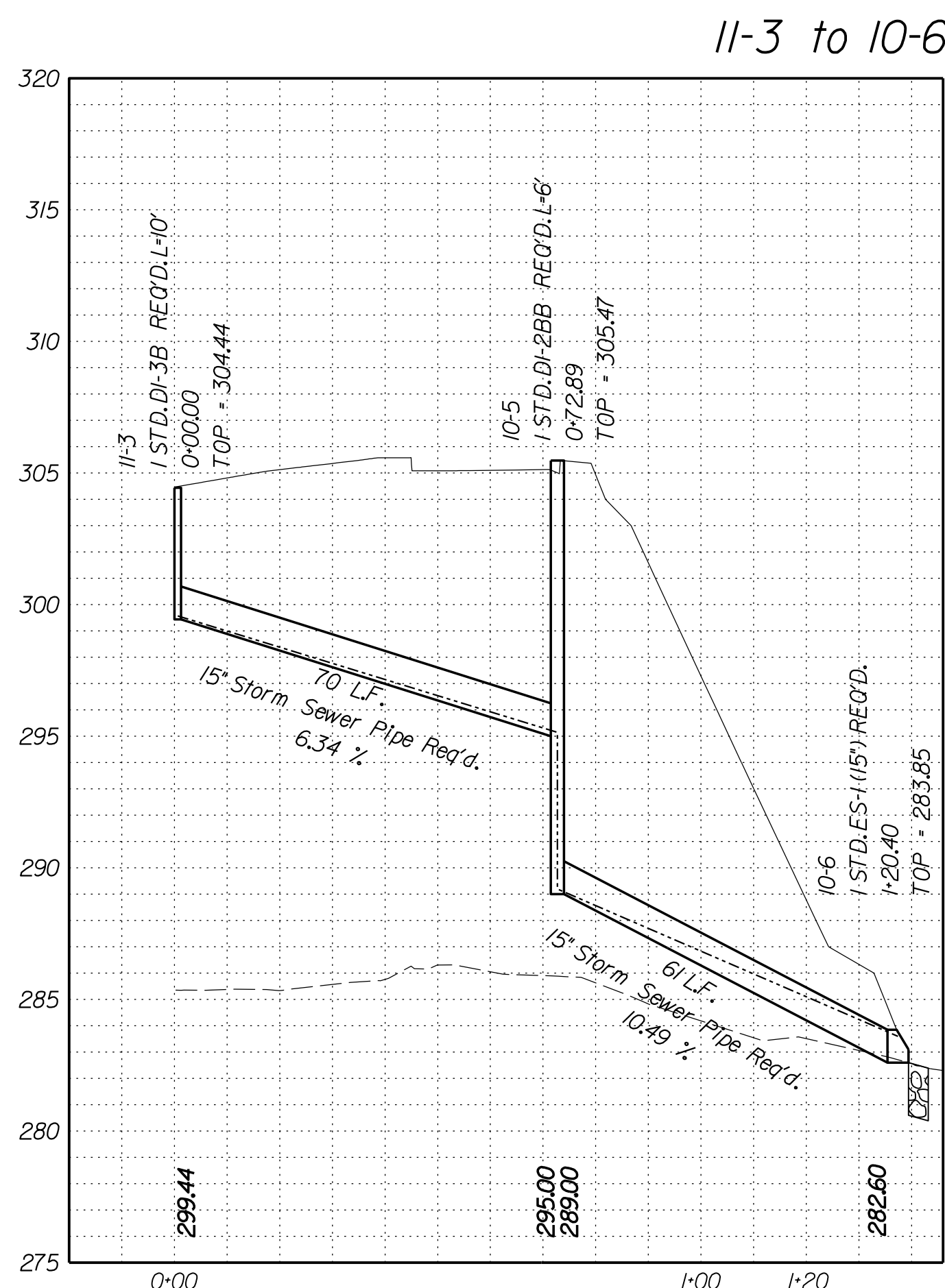
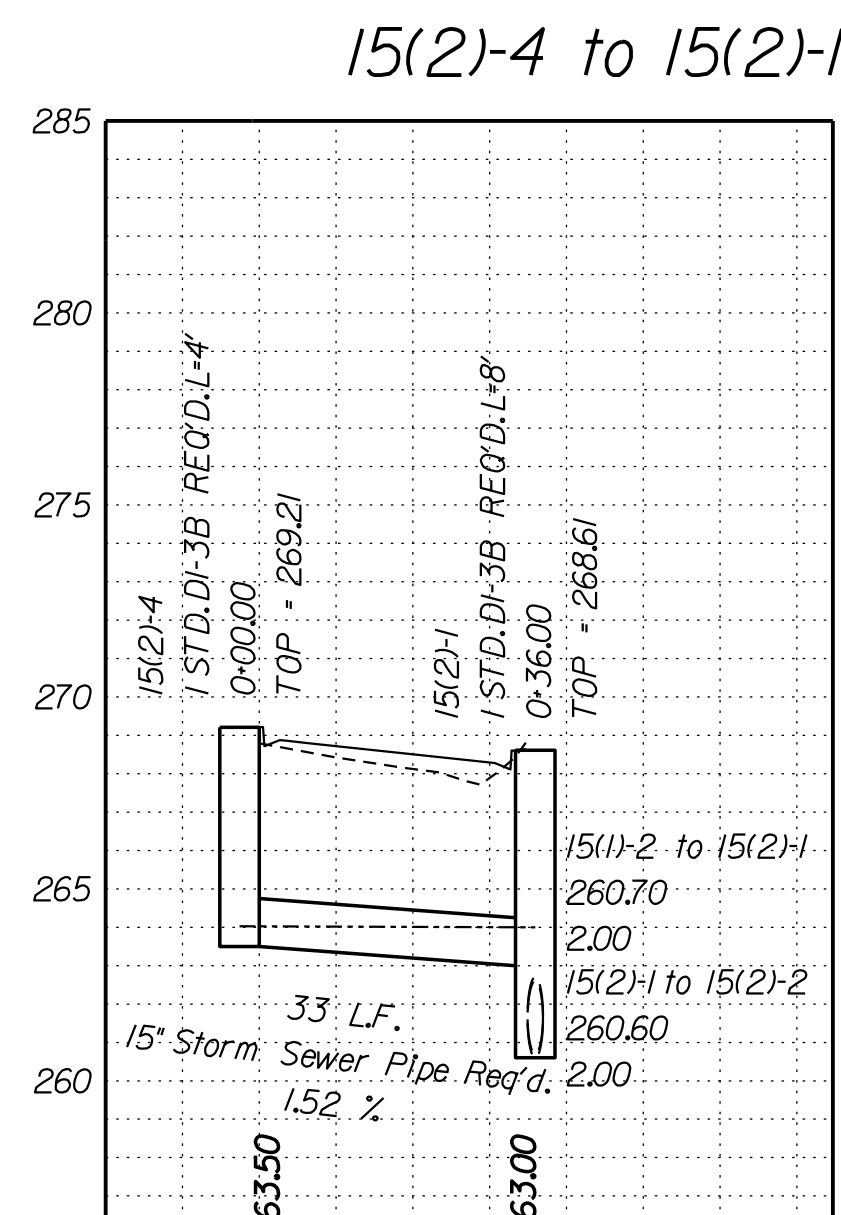
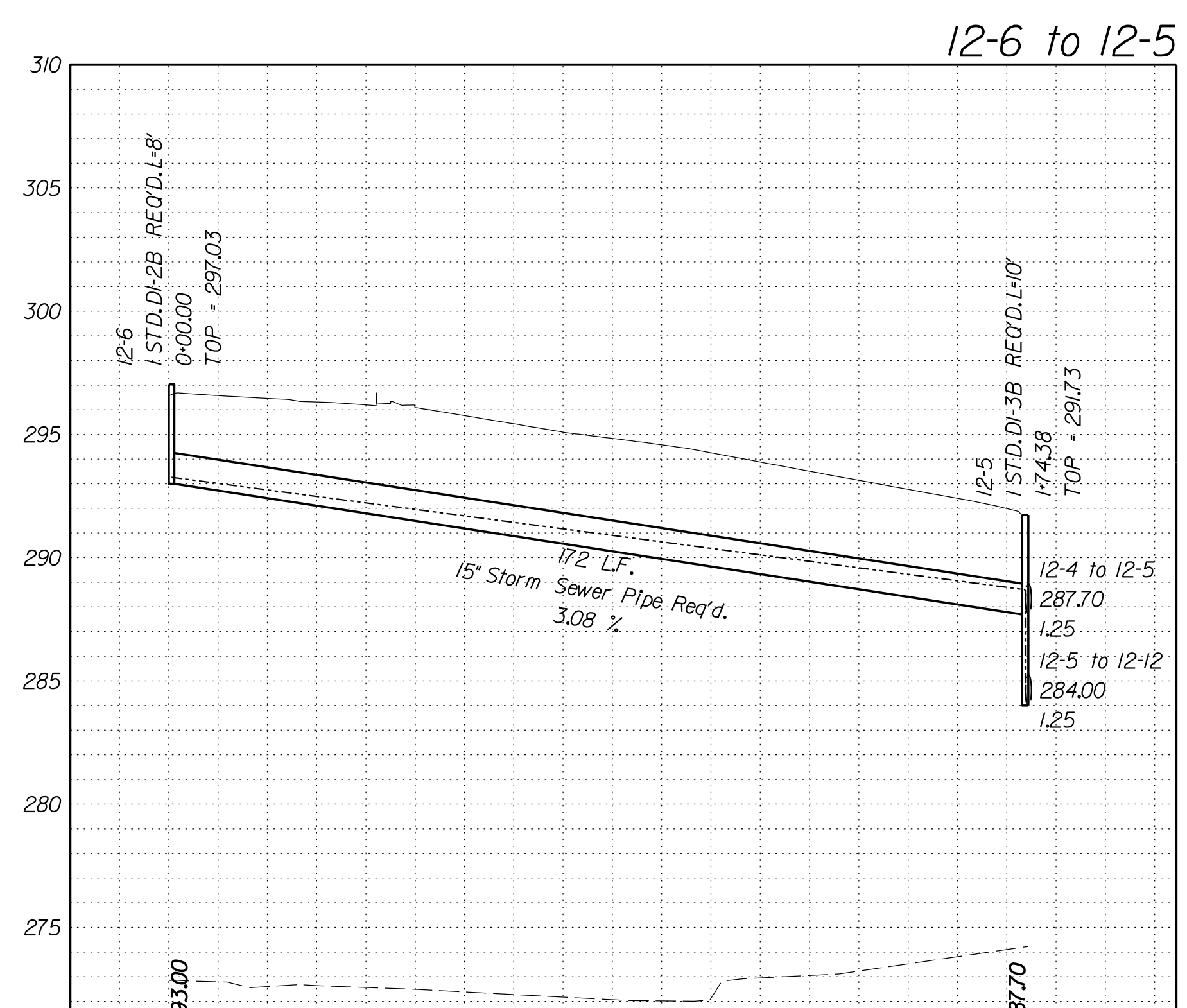
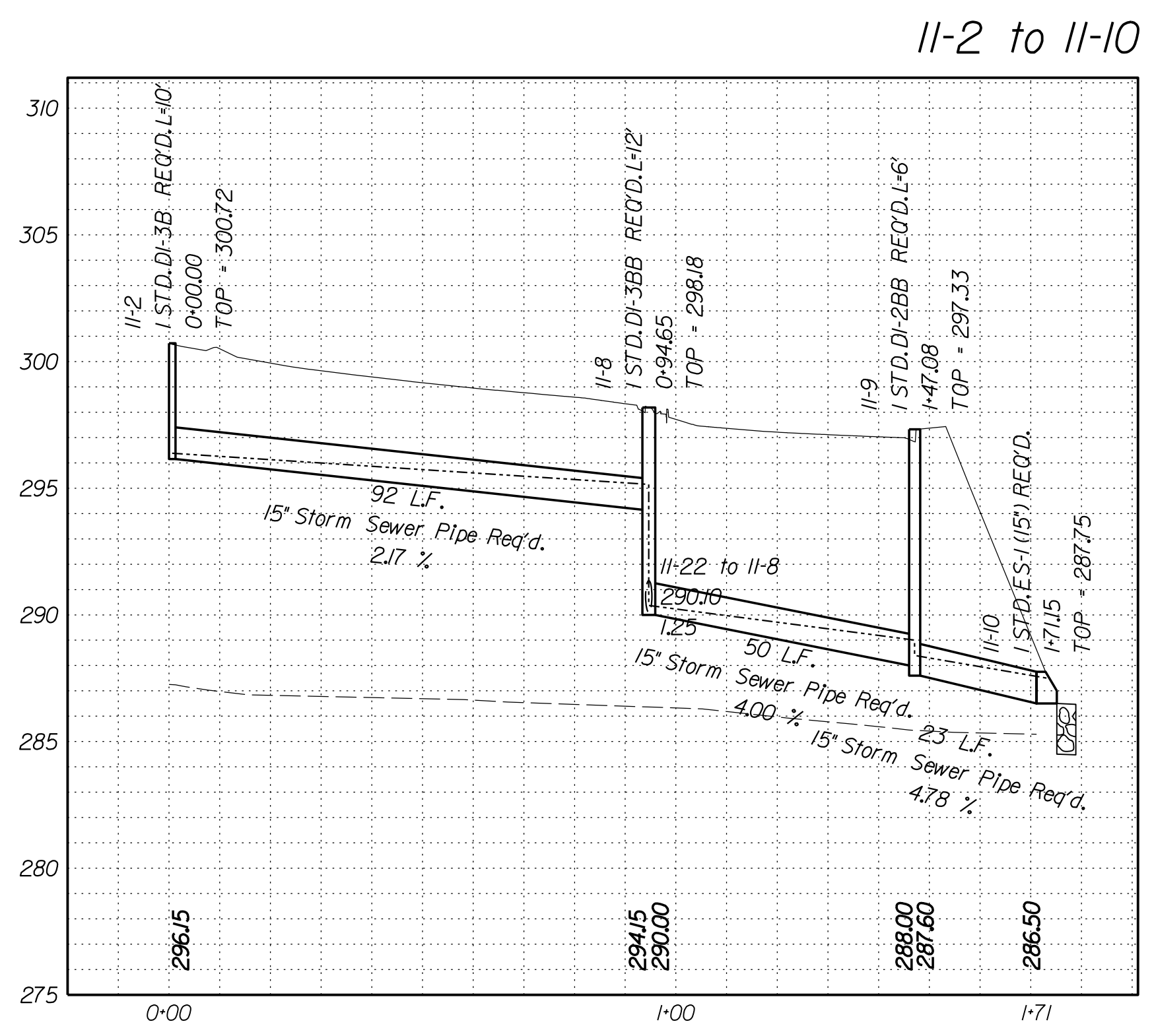


Rinker Design Associates, P.C.
 Manassas, Virginia
 HYDRAULICS ENGINEER

REVISED	STATE	ROUTE	PROJECT	SHEET NO.
	VA.	621	6234-076-266, C-501, RW-201	2N(3)

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

04 Reorganized storm sewer profiles.



Legend
 ——— DENOTES PROP. GRADE
 - - - - - DENOTES EXIST. GROUND
 - - - - - DENOTES MGL
 - - - - - DENOTES EX. STR. OR PIPE

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

NOVA DISTRICT DESIGN UNIT

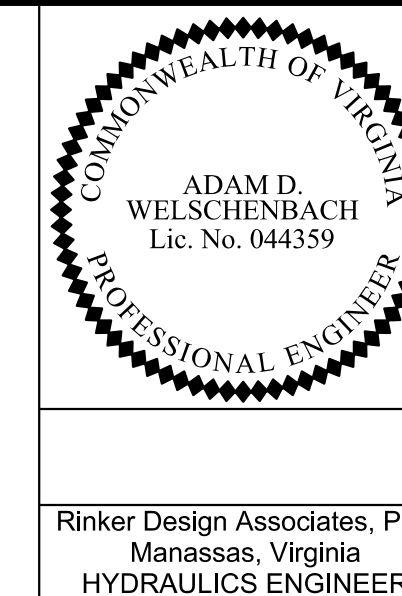
Design Associates, P.C.

Office Locations

PROJECT MANAGER PWC DOT, Mary Ankers (703) 792-4228
SURVEYED BY, DATE Rinker Design Associates, P.C. (703) 369-7373, April 2020
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SUBSURFACE UTILITY BY, DATE Accurmark (703) 635-3060, May 2020

STORM SEWER PROFILES

11-15 to 11-21

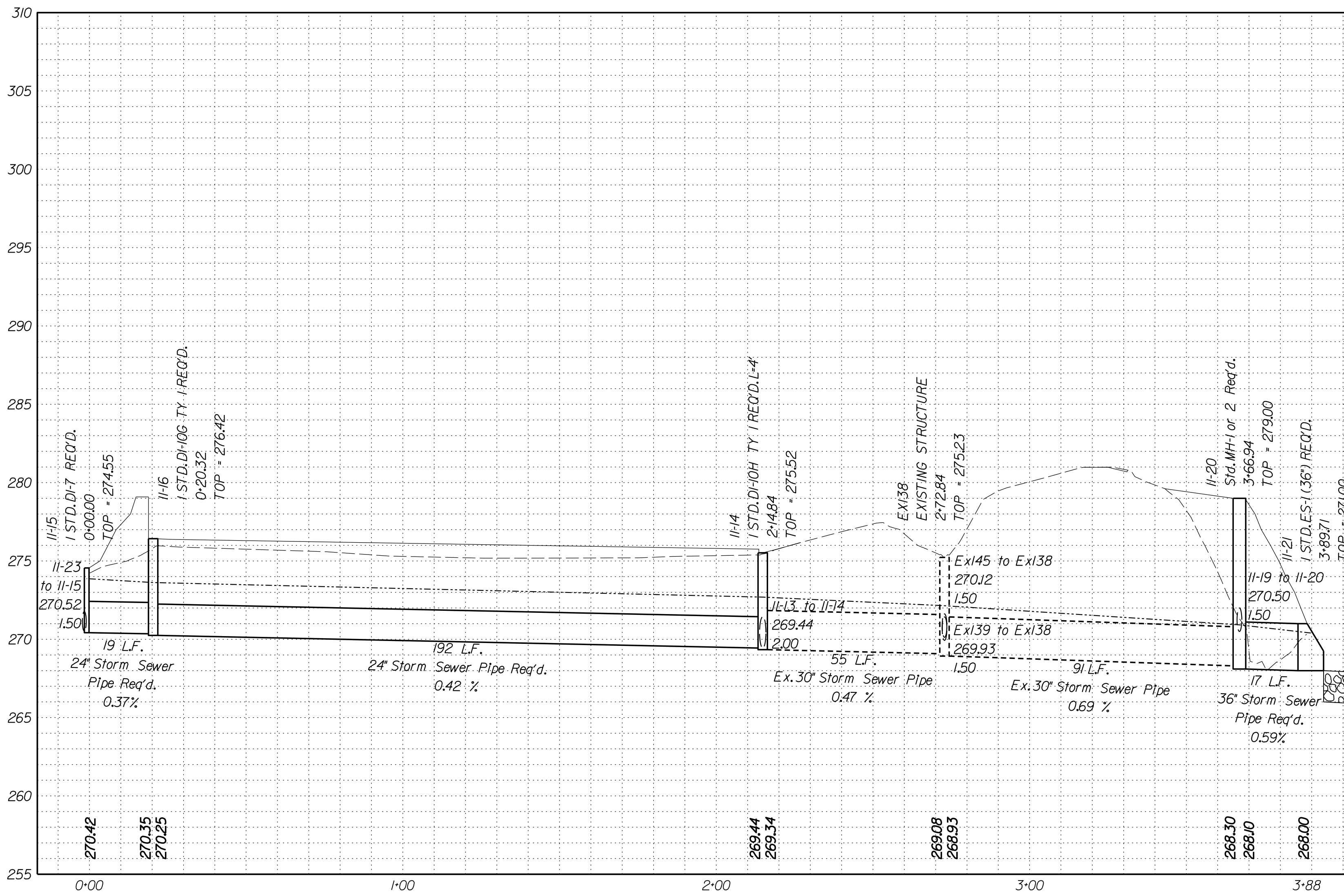


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Manassas, Virginia
HYDRAULICS ENGINEER

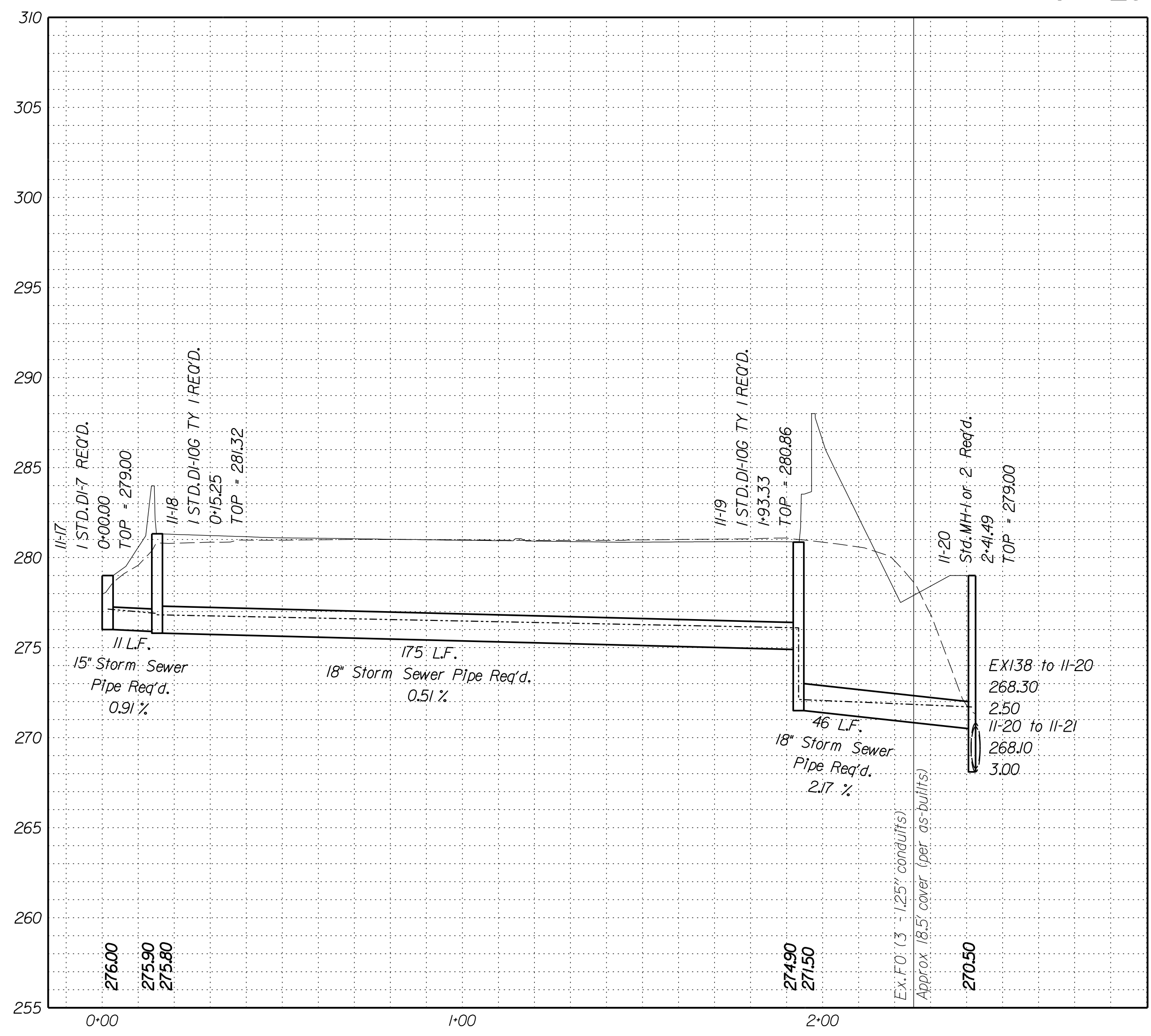
REVISED	STATE	ROUTE	STATE	PROJECT	SHEET NO.
	VA.	621		6234-076-266, C-501, RW-201	2N(4)

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

04 Reorganized storm sewer profiles.

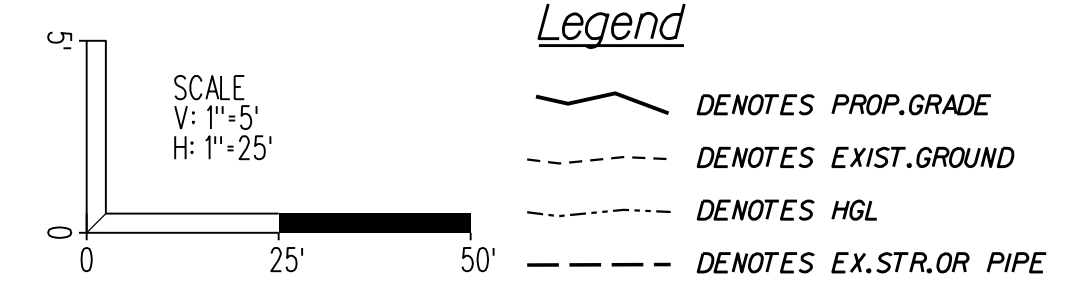
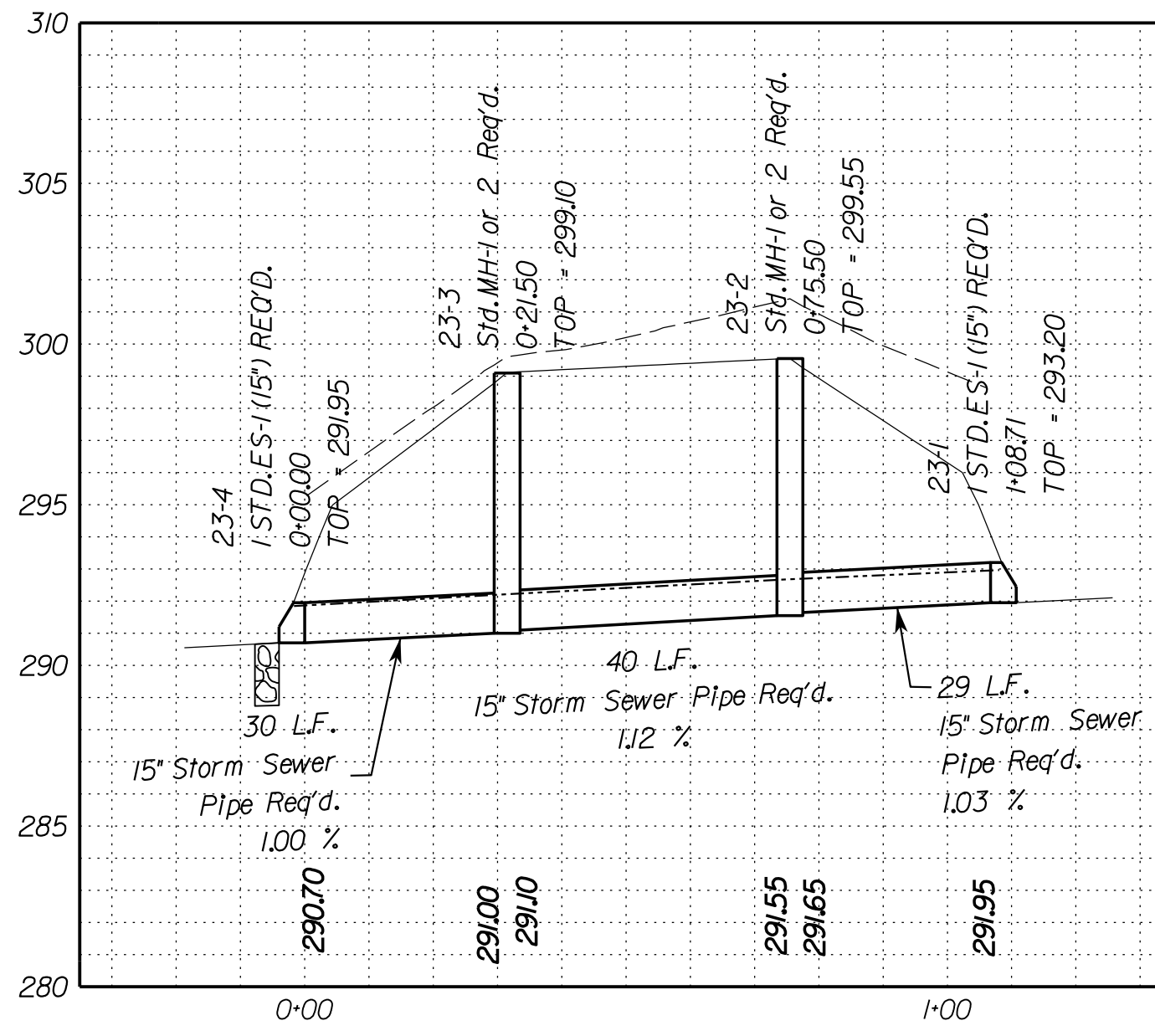
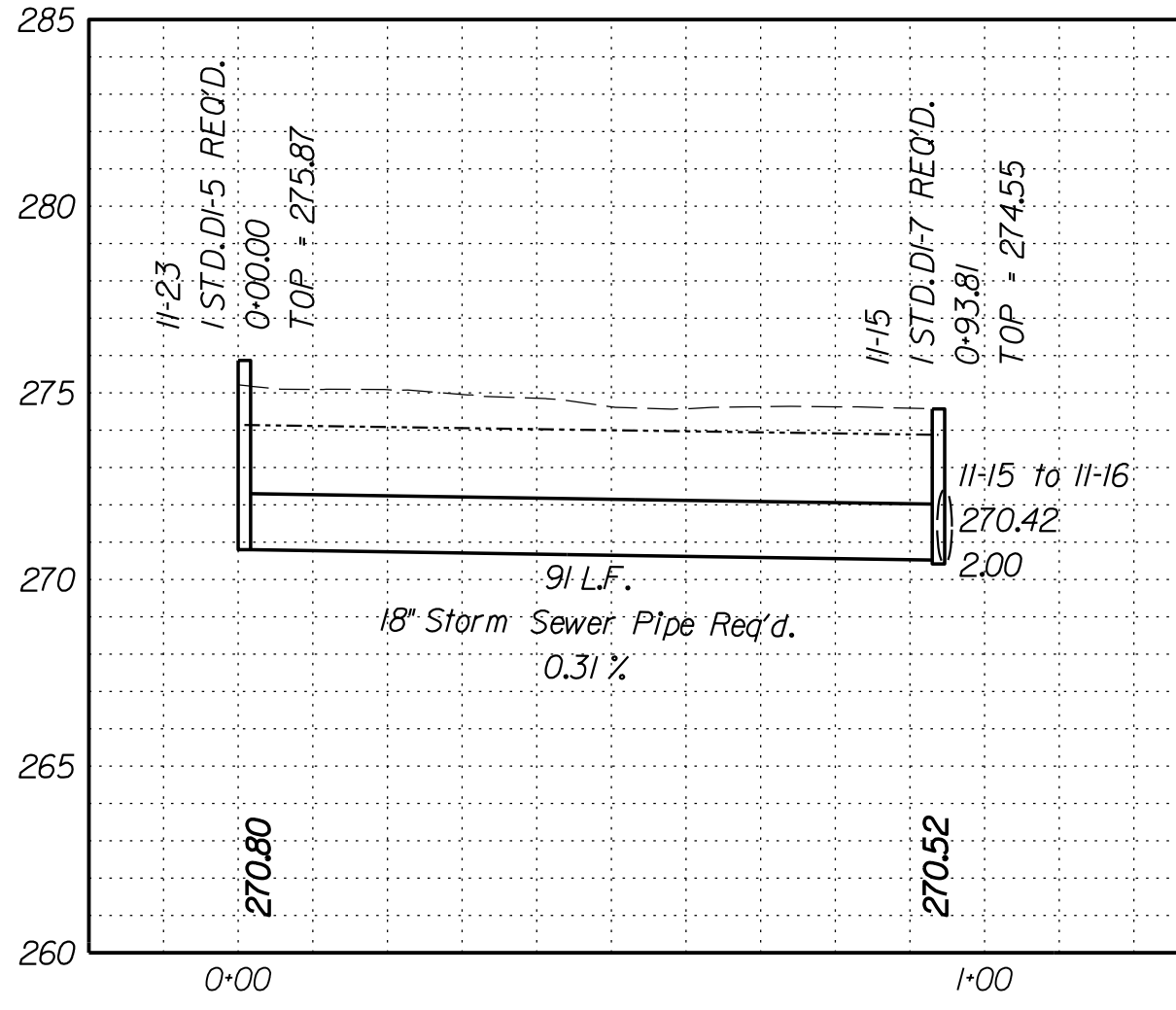


11-17 to 11-20



23-1 to 23-4

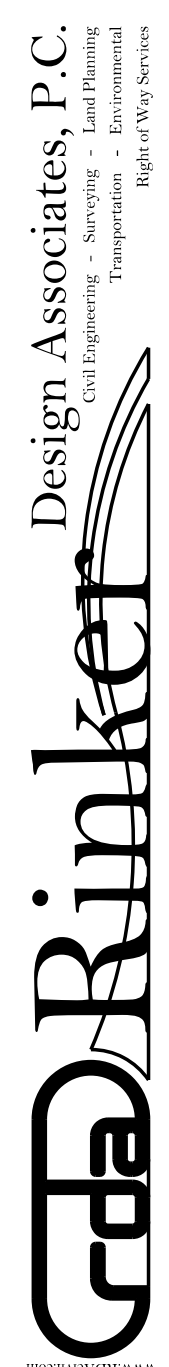
11-23 to 11-15



VDOT PROJECT 6234-076-266 PNC PROJECT SPR2020-00383 S03	SHEET NO. 2N(4)
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Office Locations: Norfolk, VA; Chesapeake, VA; Virginia Beach, VA; Alexandria, VA; Fairfax, VA; Reston, VA; Herndon, VA; Ashburn, VA; Manassas, VA; Falls Church, VA; Arlington, VA; Loudoun, VA; Stafford, VA; Loudon, VA; Giles, VA; Smyth, VA; Shenandoah, VA; Pulaski, VA; Buchanan, VA; Giles, VA; Smyth, VA; Shenandoah, VA; Pulaski, VA; Buchanan, VA.

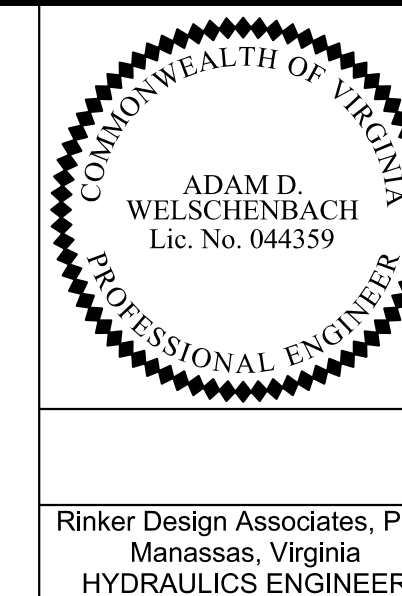
Nova District Design Unit



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SURVEYED BY, DATE Rinker Design Associates, P.C. (703) 369-7373, April 2020
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SUBSURFACE UTILITY BY, DATE Accurmark (703) 635-3060, May 2020

STORM SEWER PROFILES

15-9 to EX13

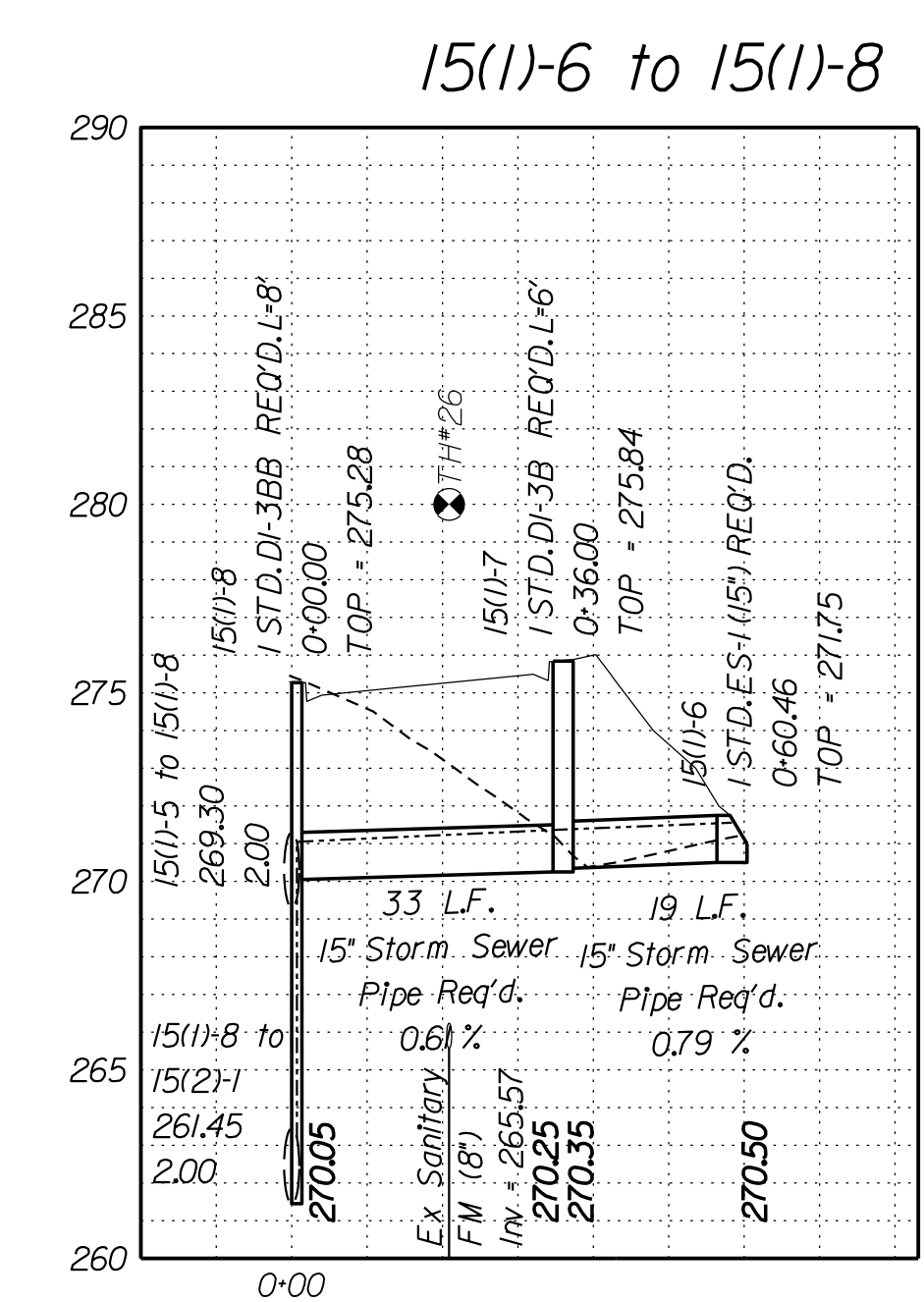
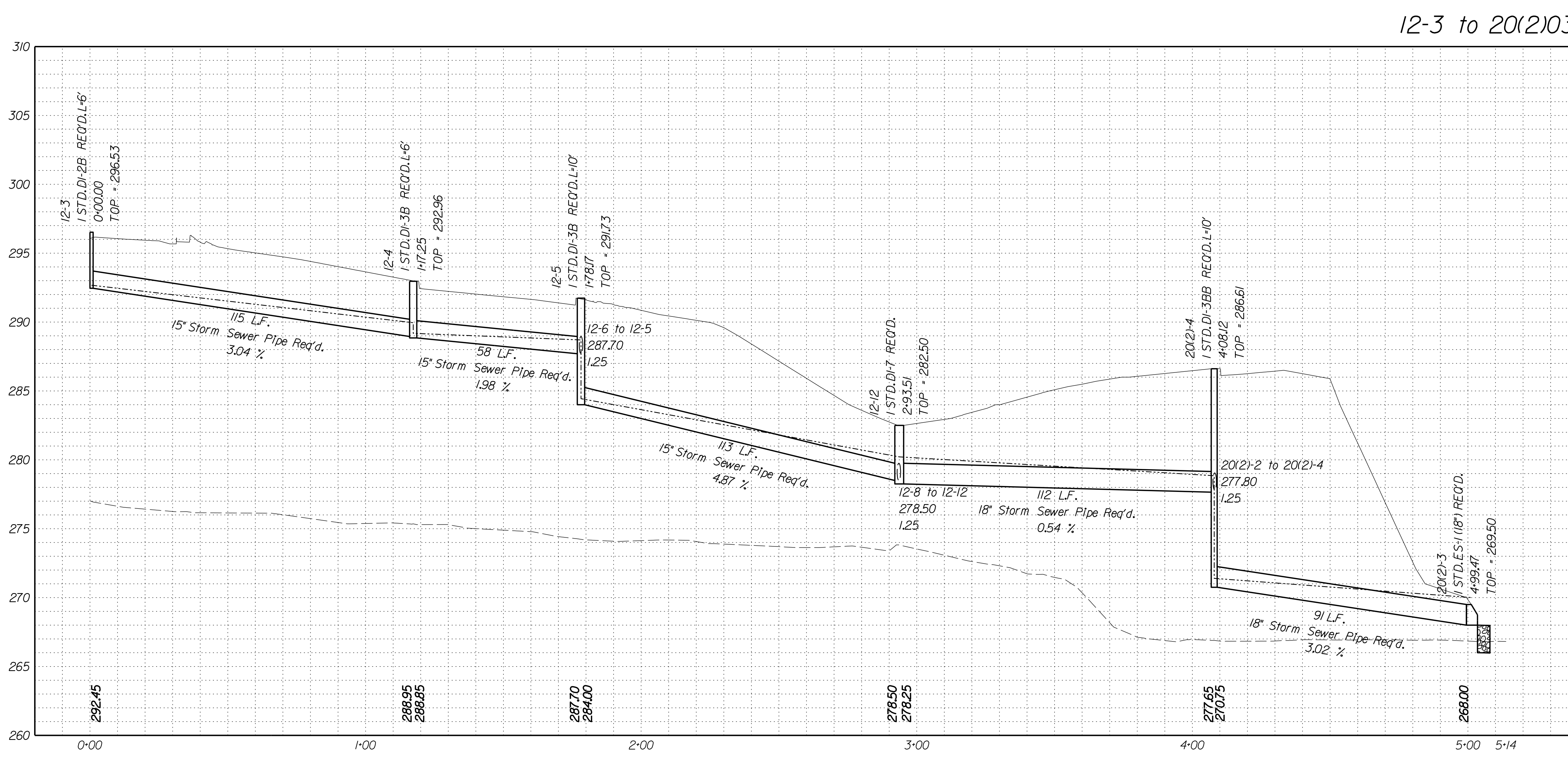
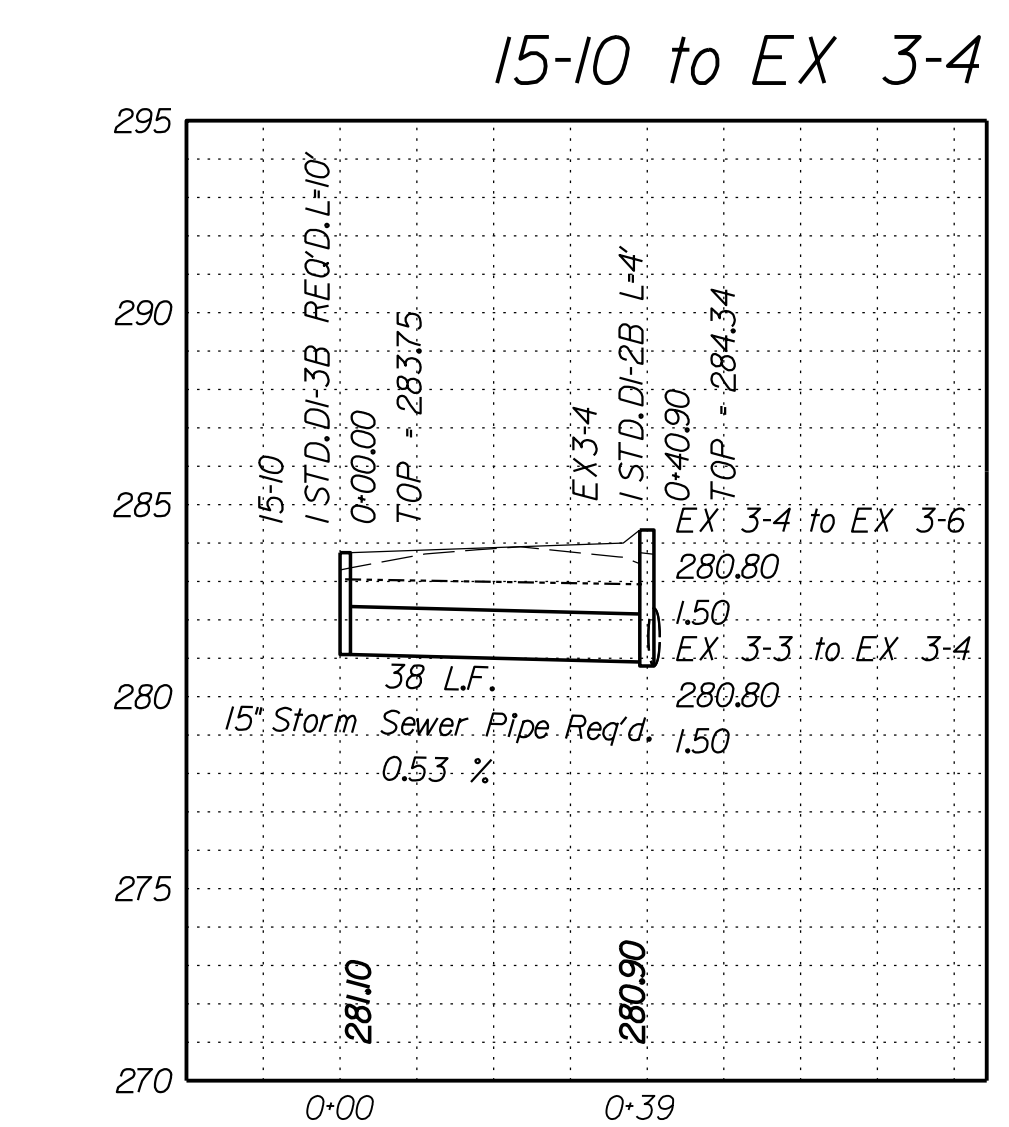
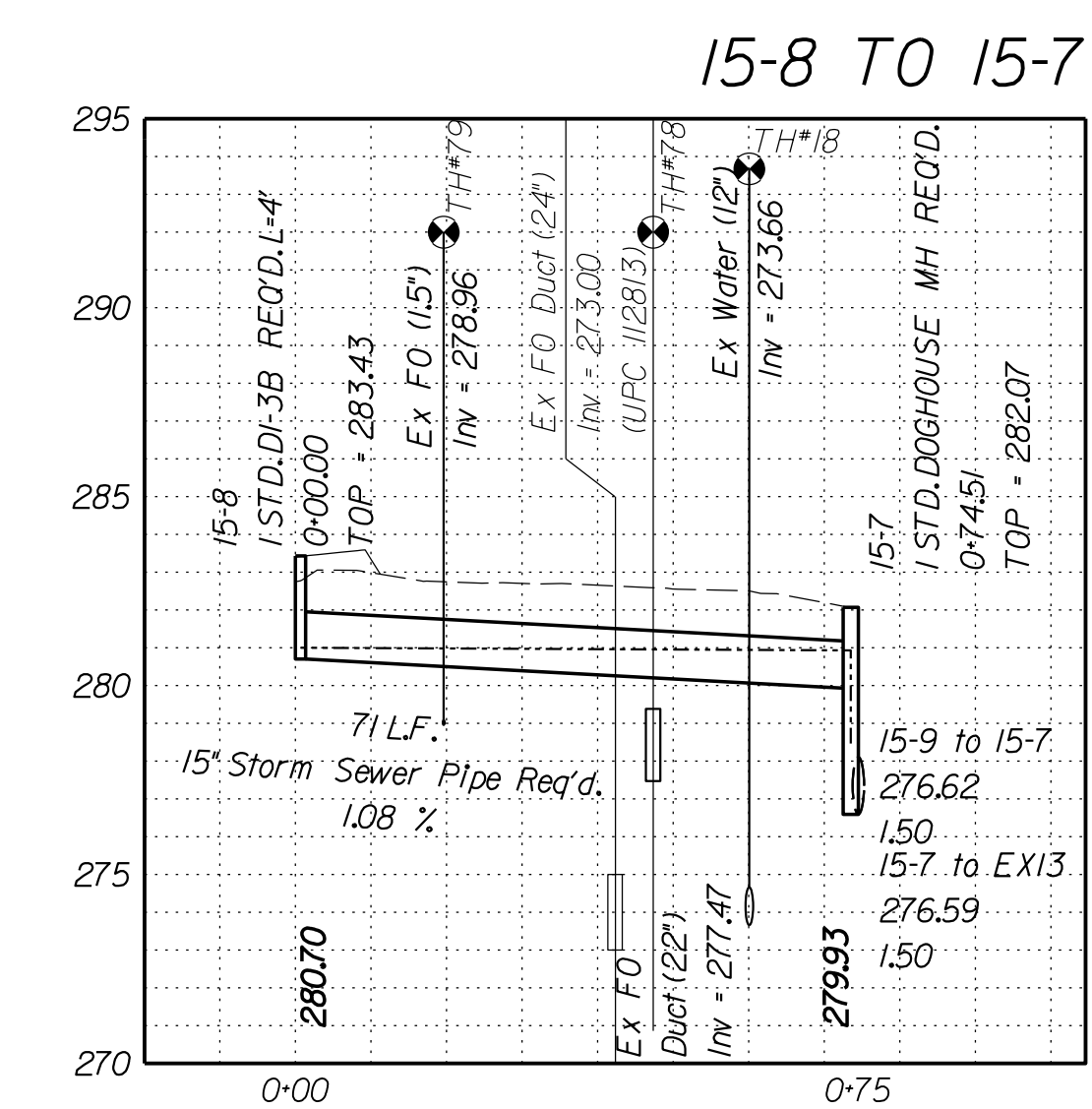
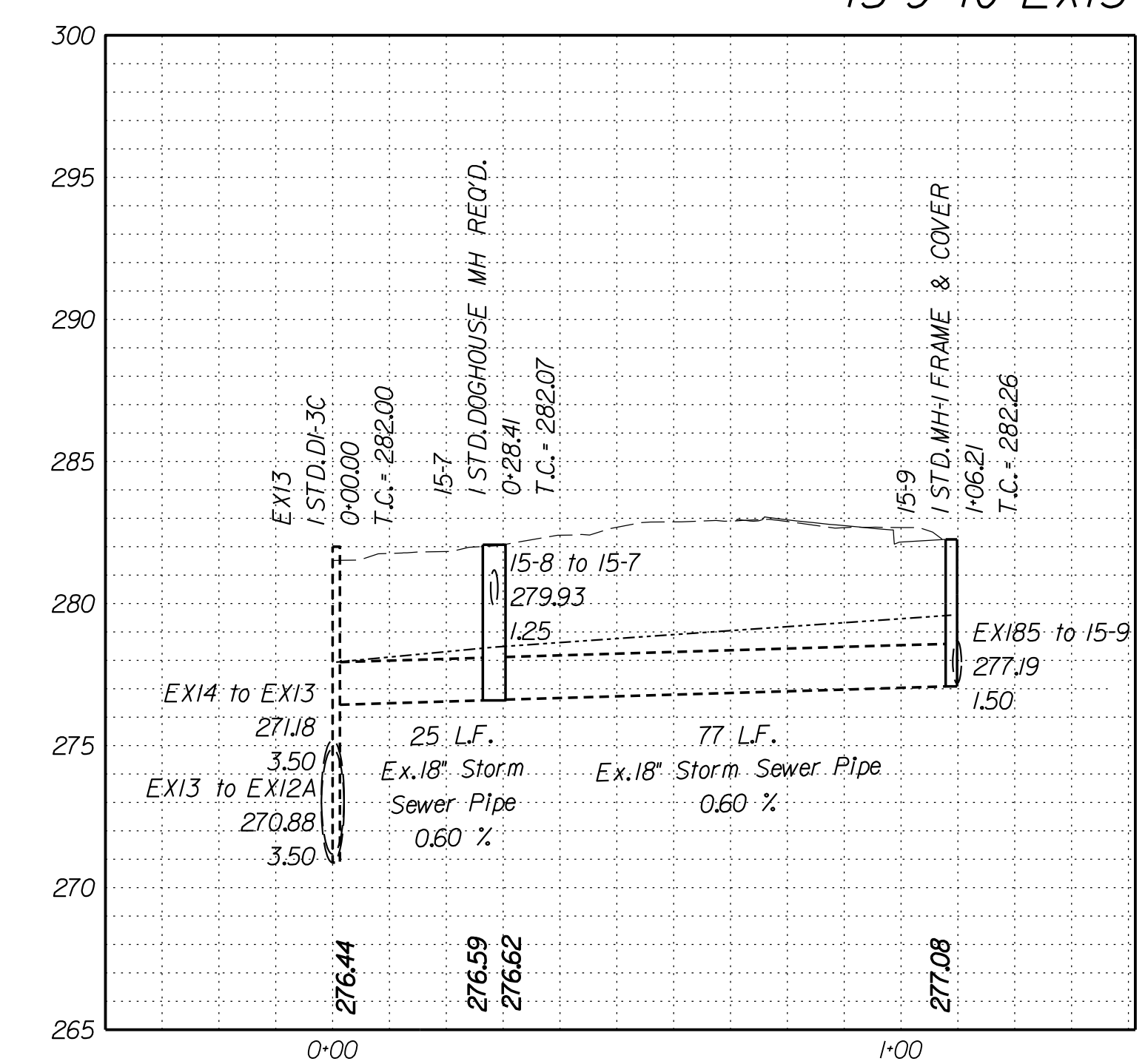
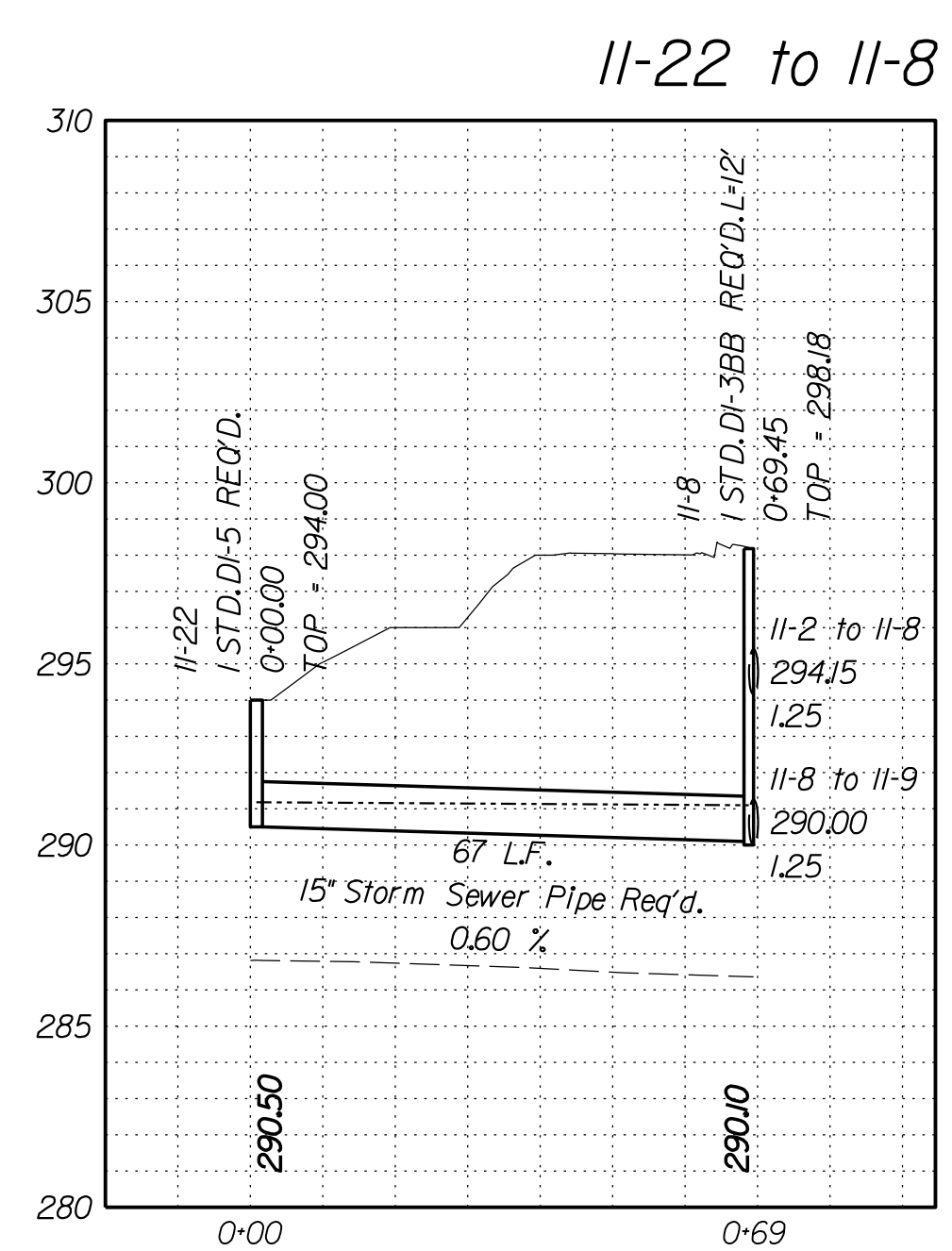
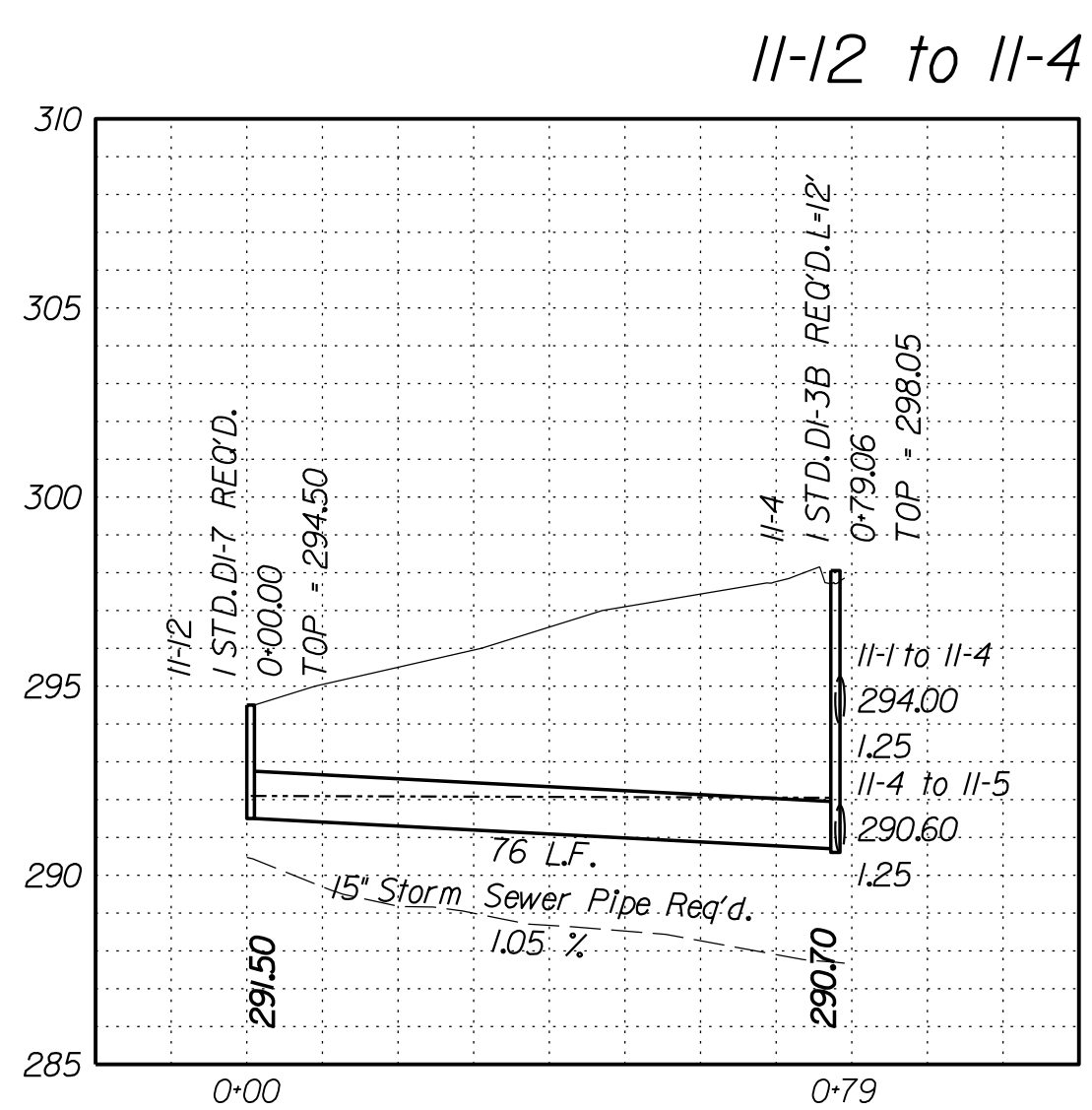


Rinker Design Associates, P.C.
Manassas, Virginia
HYDRAULICS ENGINEER

REVISED	STATE	ROUTE	PROJECT	SHEET NO.
NDC04	VA.	621	6234-076-266, C-501, RW-201	2N(5)

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

04 Reorganized storm sewer profiles.



Legend

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

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

VDOT PROJECT 6234-076-266 PNC PROJECT SPR2020-00383 S03	SHEET NO. 2N(5)
--	--------------------

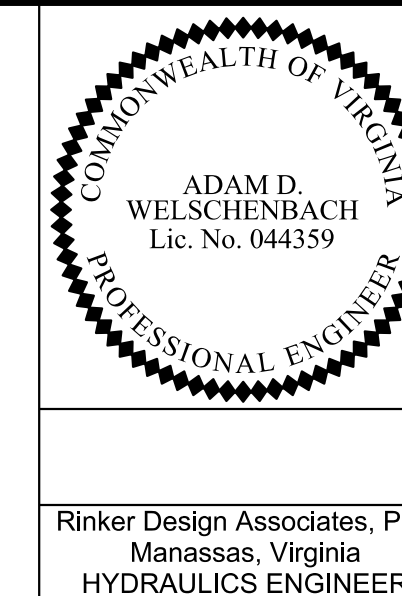
7/1/2021 NOVA DISTRICT DESIGN UNIT

 Design Associates, P.C.
 Civil Engineering • Surveying • Land Planning
 10000 Lakeside Blvd., Suite 100, Manassas, VA 20108
 Phone: (703) 368-7373 Fax: (703) 368-7373
 Email: info@rinker.com www.rinker.com

PROJECT MANAGER PWC DOT, Mary Ankers (703) 792-4228
SURVEYED BY, DATE Rinker Design Associates, P.C. (703) 369-7373, April 2020
DESIGN BY Rinker Design Associates, Mark Gunn, P.E. (703) 368-7373
SUBSURFACE UTILITY BY, DATE Accurmark (703) 635-3060, May 2020

- 02 Revised 22-5 to 22-1.
- 04 Reorganized storm sewer profiles.

STORM SEWER PROFILES



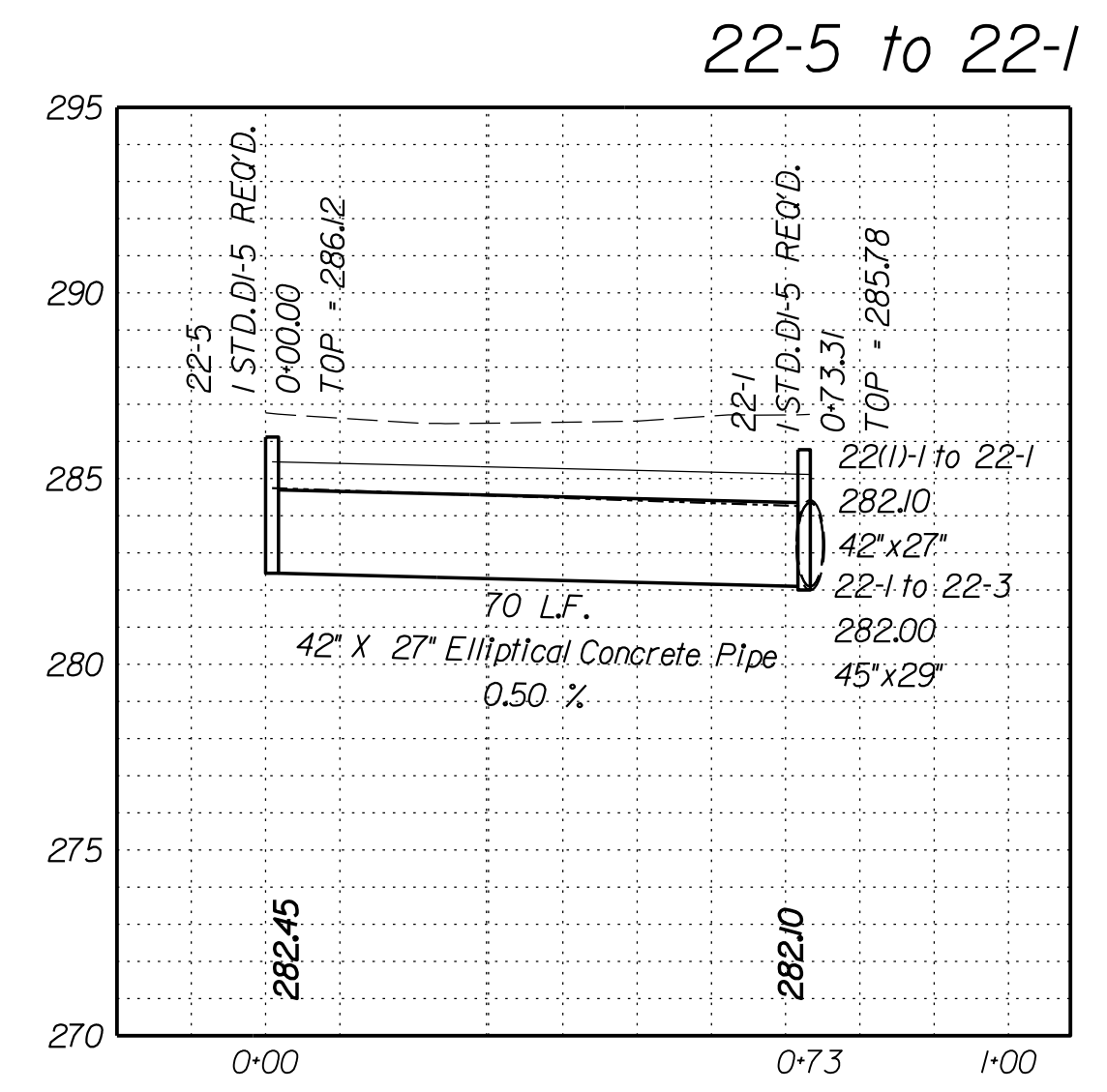
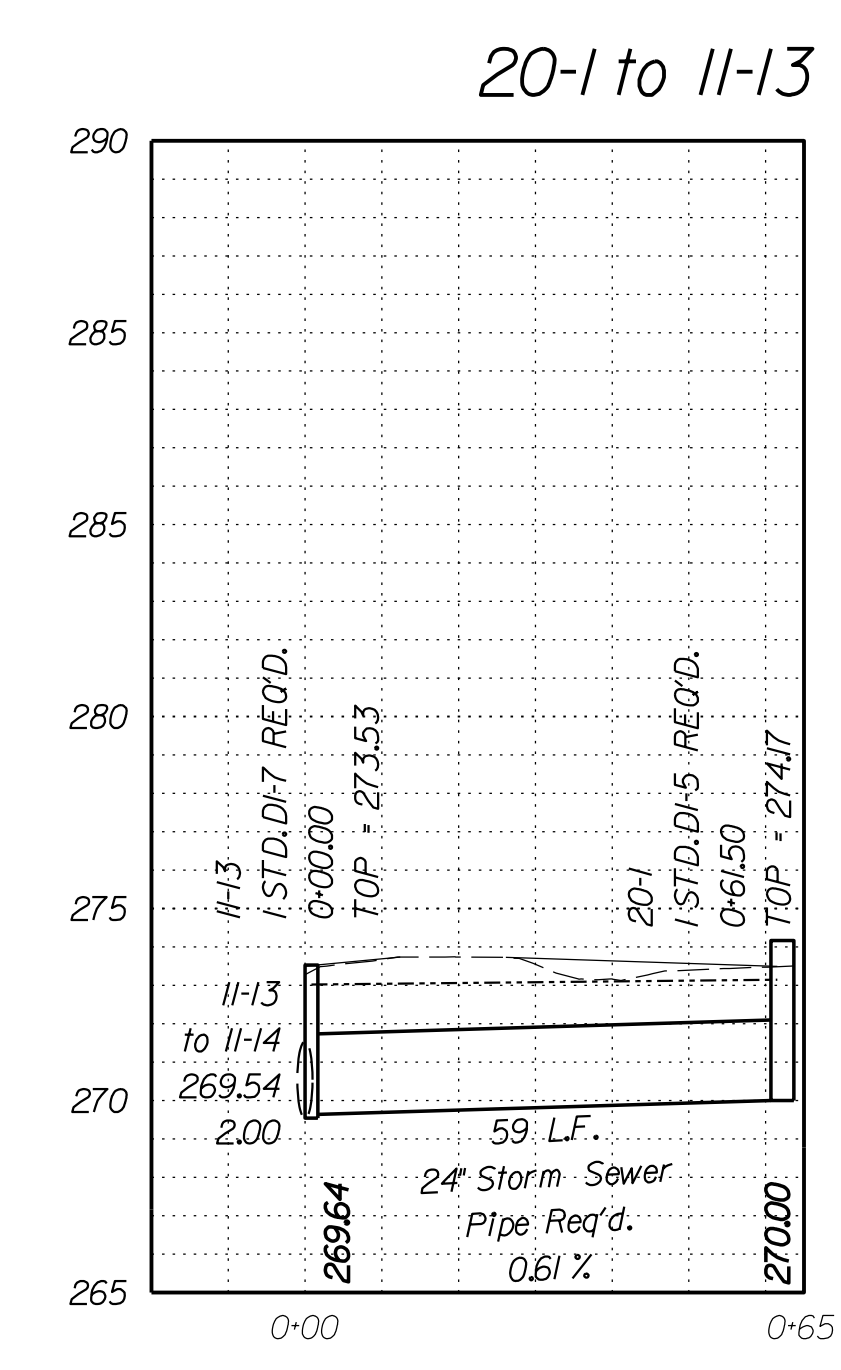
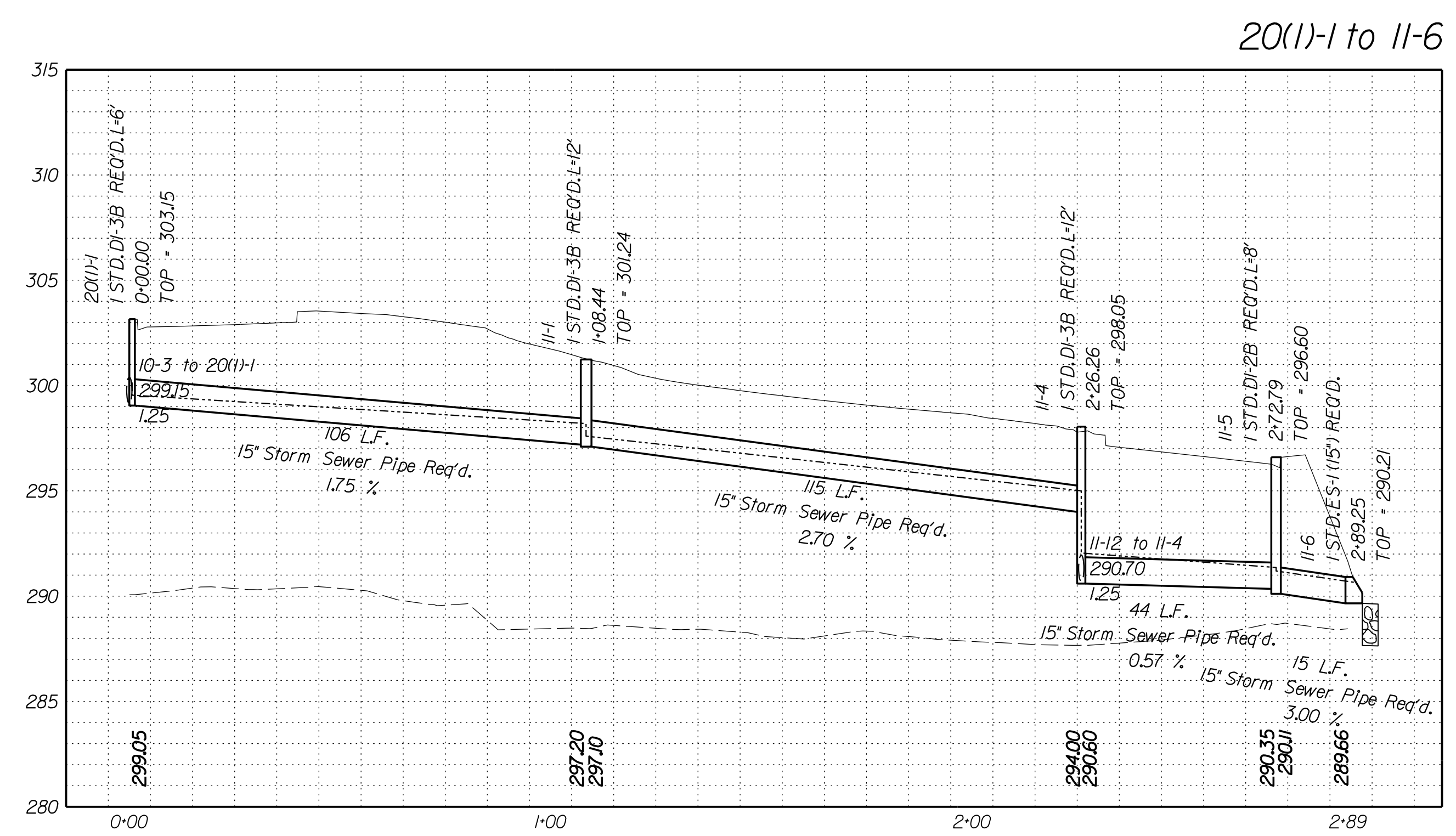
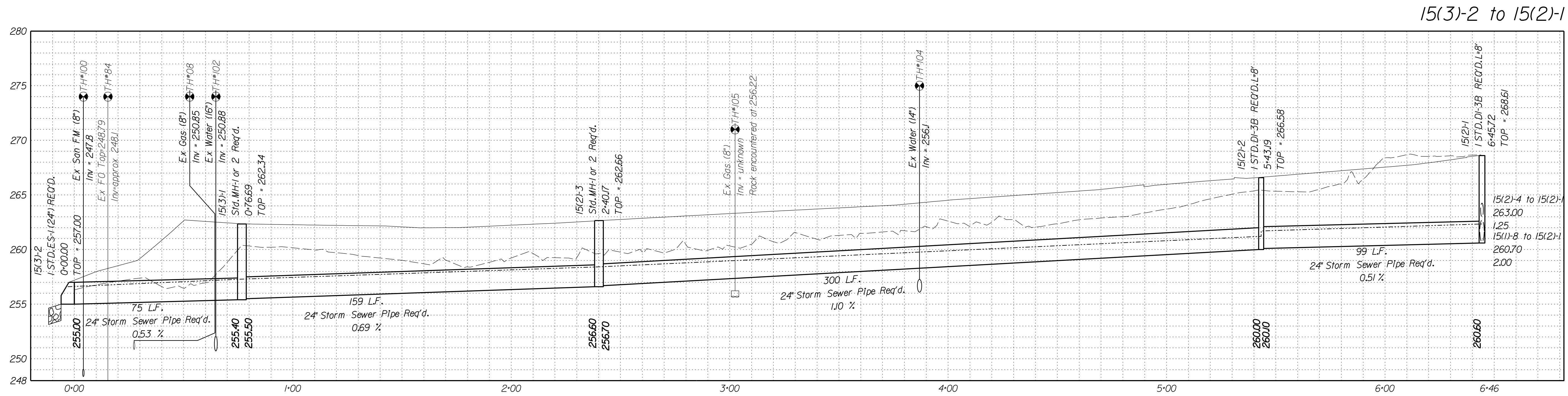
Rinker Design Associates, P.C.
Manassas, Virginia
HYDRAULICS ENGINEER

REVISED	STATE	ROUTE	PROJECT	SHEET NO.
NDC02 NDC04	VA.	621	6234-076-266, C-501, RW-201	2N(6)

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

Office Locations
 Rinker Design Associates, P.C.
 10000 Woodloch Forest Drive, Suite 100
 Manassas, VA 20108
 (703) 369-7373
 www.rinker.com

LANE
 NOVA DISTRICT DESIGN UNIT
 7/1/2021



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

Legend

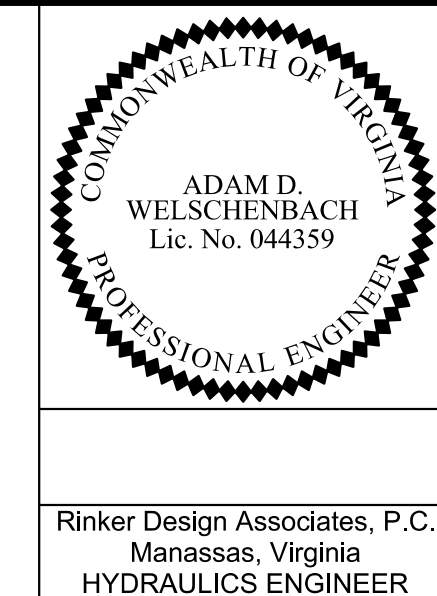
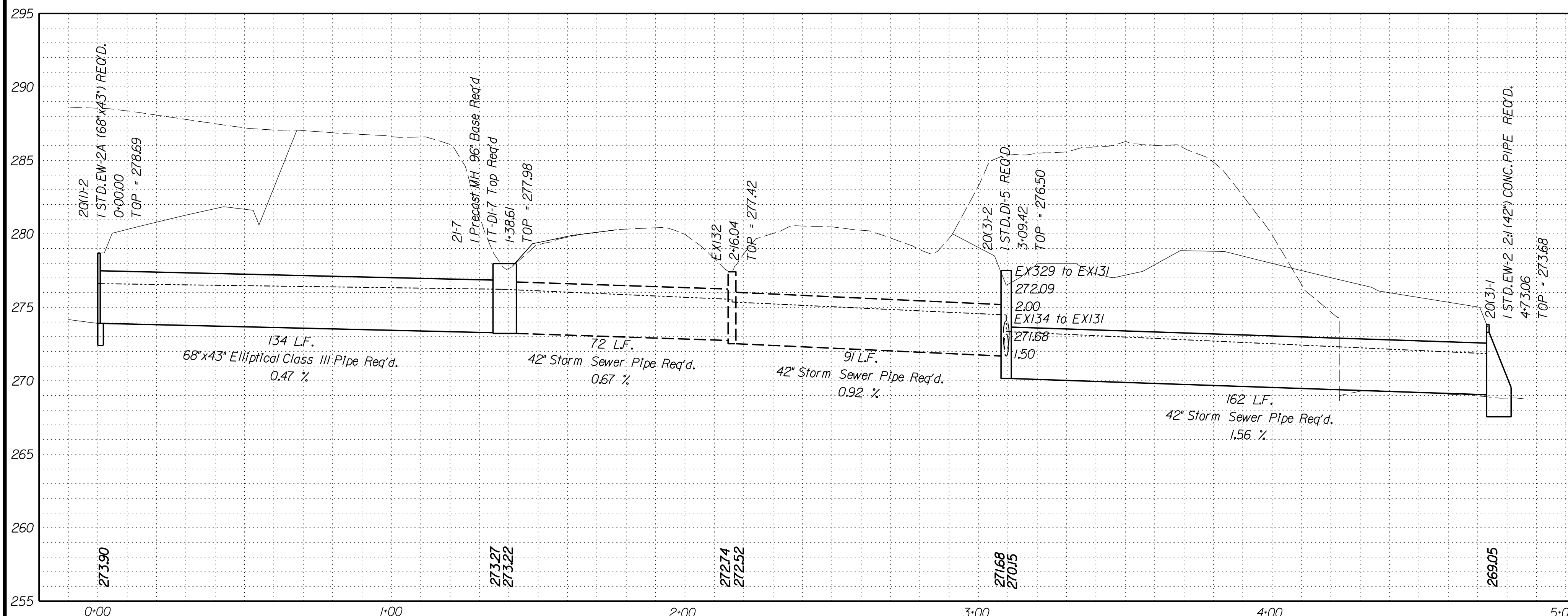
- DENOTES PROP. GRADE
- DENOTES EXIST. GROUND
- DENOTES MGL
- DENOTES EX. STR. OR PIPE

PROJECT MANAGER PWC DOT, Mary Ankers (703)792-4228
 SURVEYED BY, DATE Rinker Design Associates, P.C. (703) 369-7373, April 2020
 DESIGN BY Rinker Design Associates, Mark Gunn, P.E. (703) 368-7373
 SUBSURFACE UTILITY BY, DATE Accurmark (703) 635-3060, May 2020

- 02 Revised 22(1) to 22-3 and 21-6 to 20(3)-1.
- 04 Reorganized storm sewer profiles.

STORM SEWER PROFILES

20(1)-2 to 20(3)-1

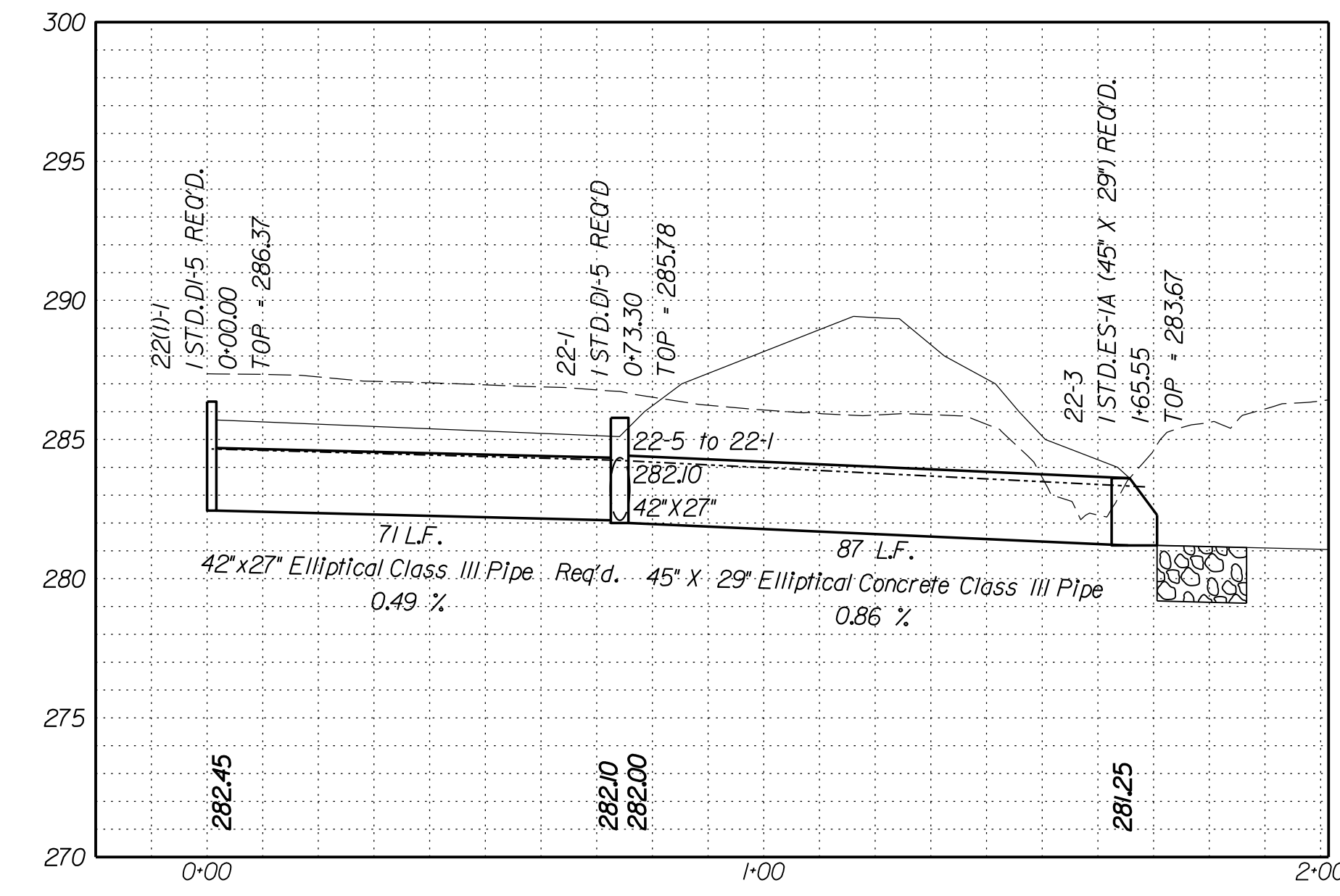


REVISED	STATE	ROUTE	PROJECT	SHEET NO.
NDC02 NDC04	VA.	621	6234-076-266, C-501, RW-201	2N(7)

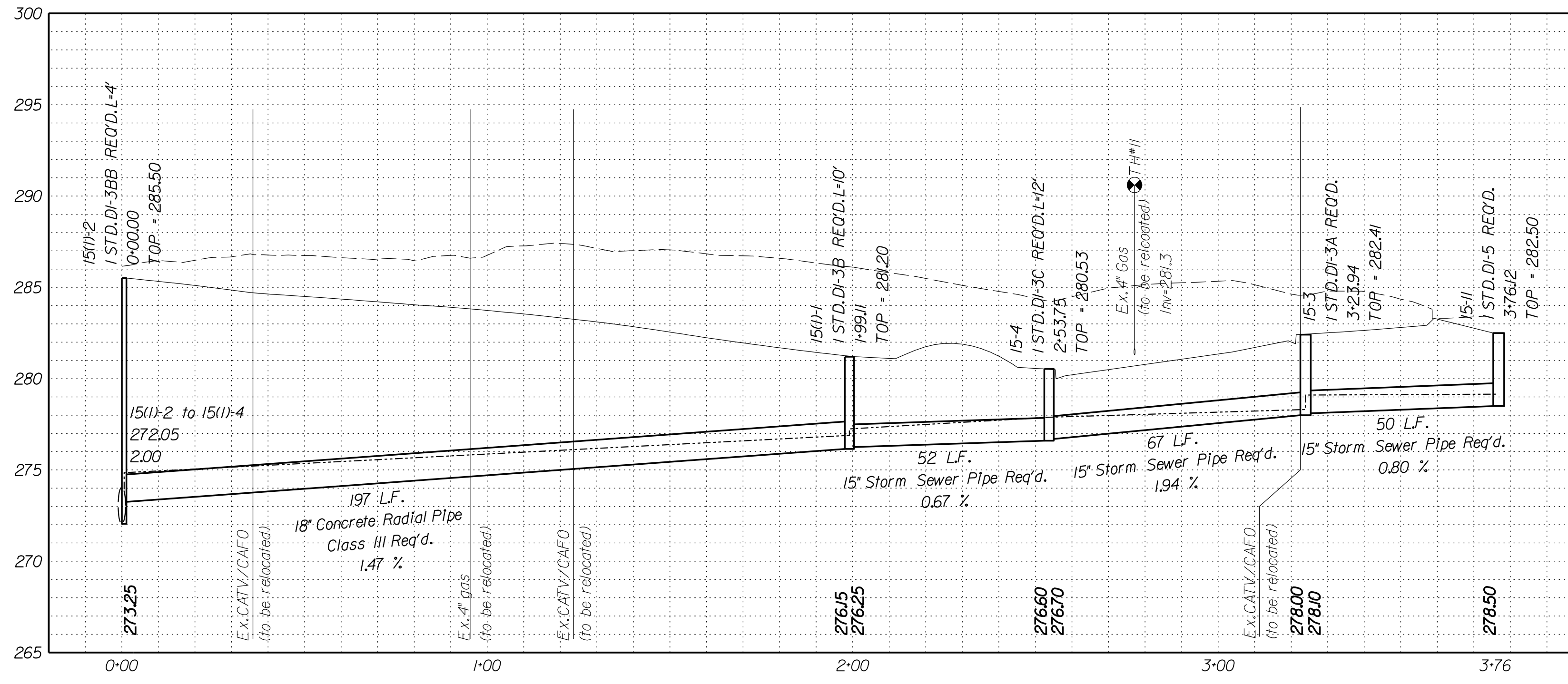
DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT

Rinker Design Associates, P.C.
 Manassas, Virginia
 HYDRAULICS ENGINEER

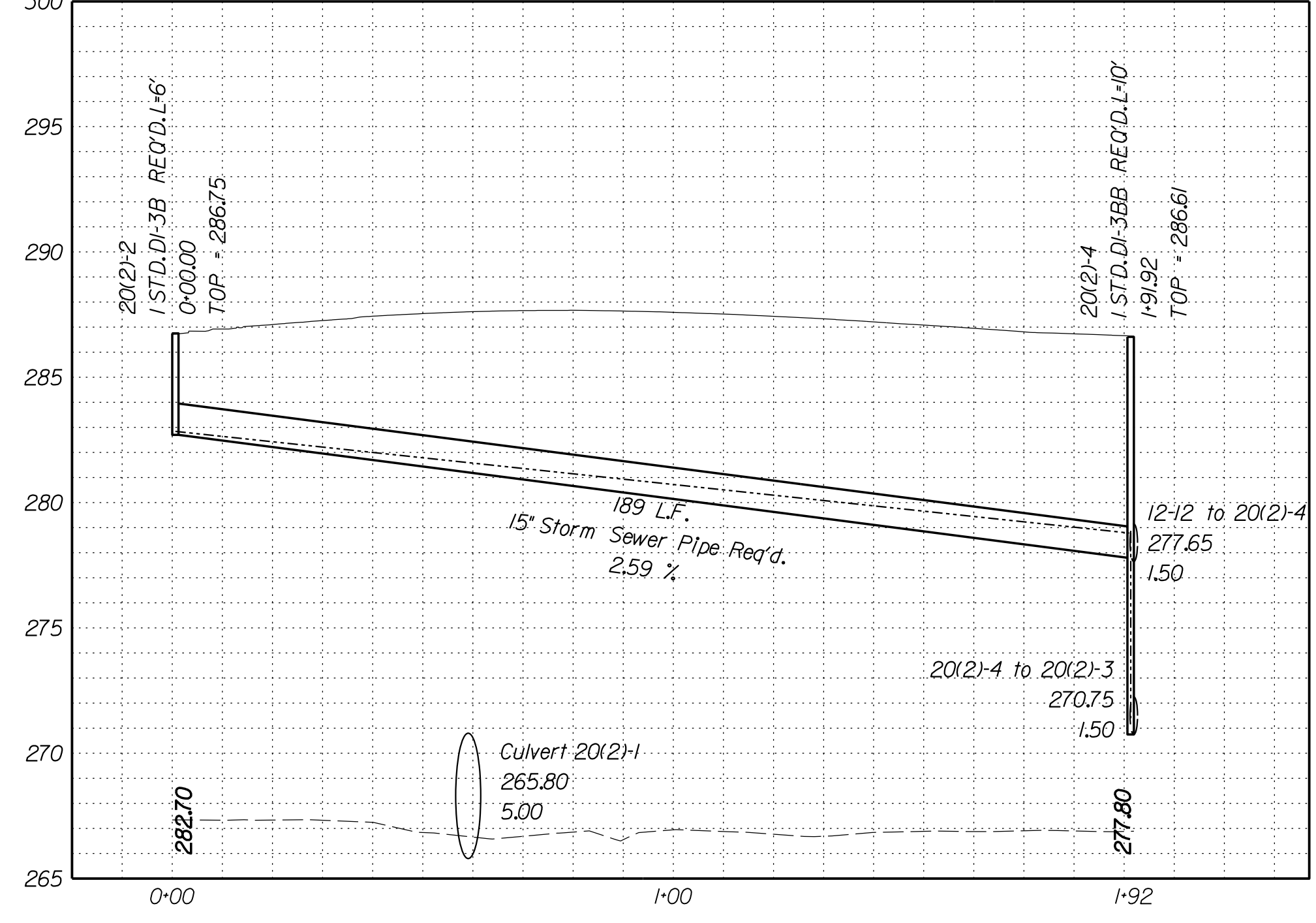
22(1)-1 to 22-3



15(1)-2 to 15-11



20(2)-2 to 20(2)-4

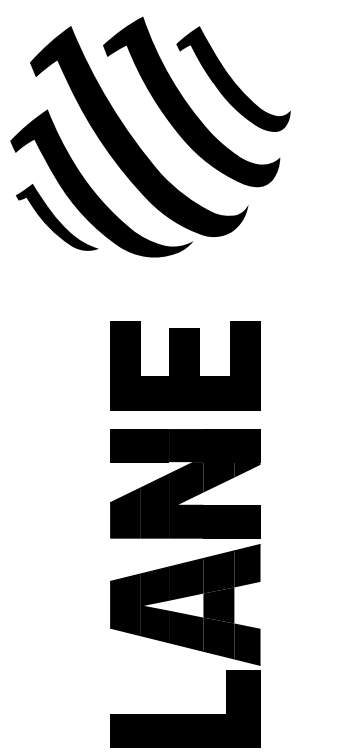


Legend

- DENOTES PROP.GRADE
- DENOTES EXIST.GROUND
- DENOTES MGL
- DENOTES EX.STR.OR PIPE

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

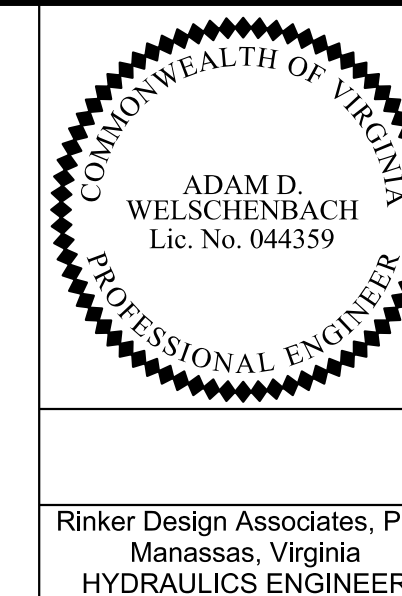
VDOT PROJECT 6234-076-266 PNC PROJECT SPR2020-00383 S03	SHEET NO. 2N(7)
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NOVA DISTRICT DESIGN UNIT

PROJECT MANAGER PWC DOT, Mary Ankers (703) 792-4228
SURVEYED BY, DATE Rinker Design Associates, P.C. (703) 369-7373, April 2020
DESIGN BY Rinker Design Associates, Mark Gunn, P.E. (703) 368-7373
SUBSURFACE UTILITY BY, DATE AccuMark (703) 635-3060, May 2020

STORM SEWER PROFILES

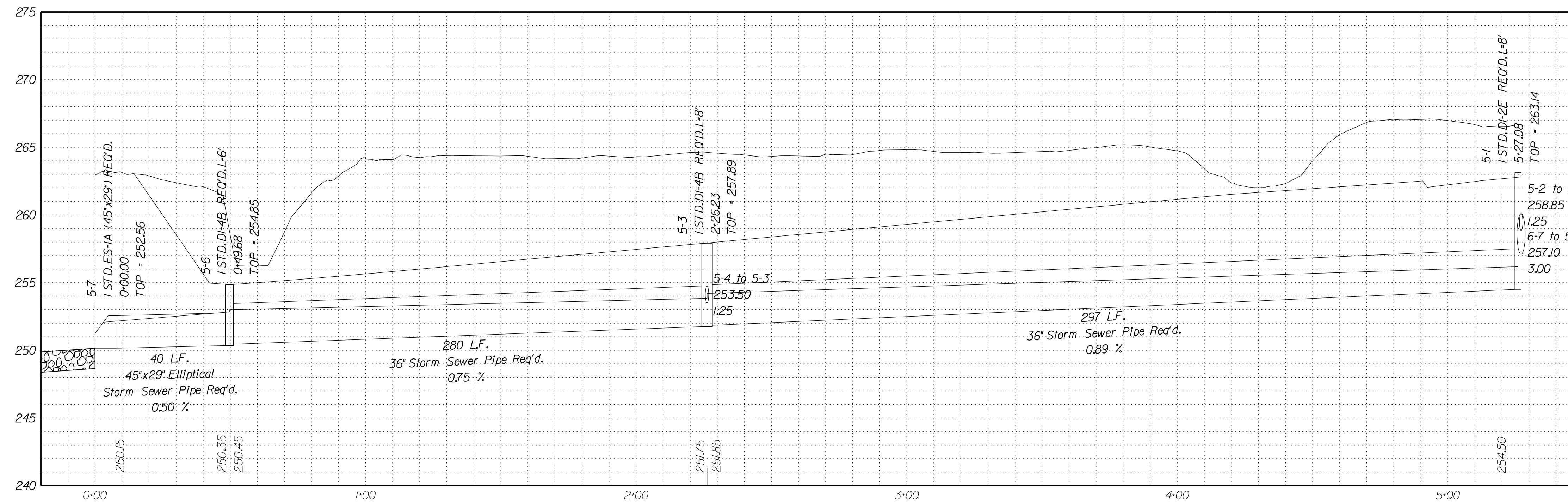


Rinker Design Associates, P.C.
Manassas, Virginia
HYDRAULICS ENGINEER

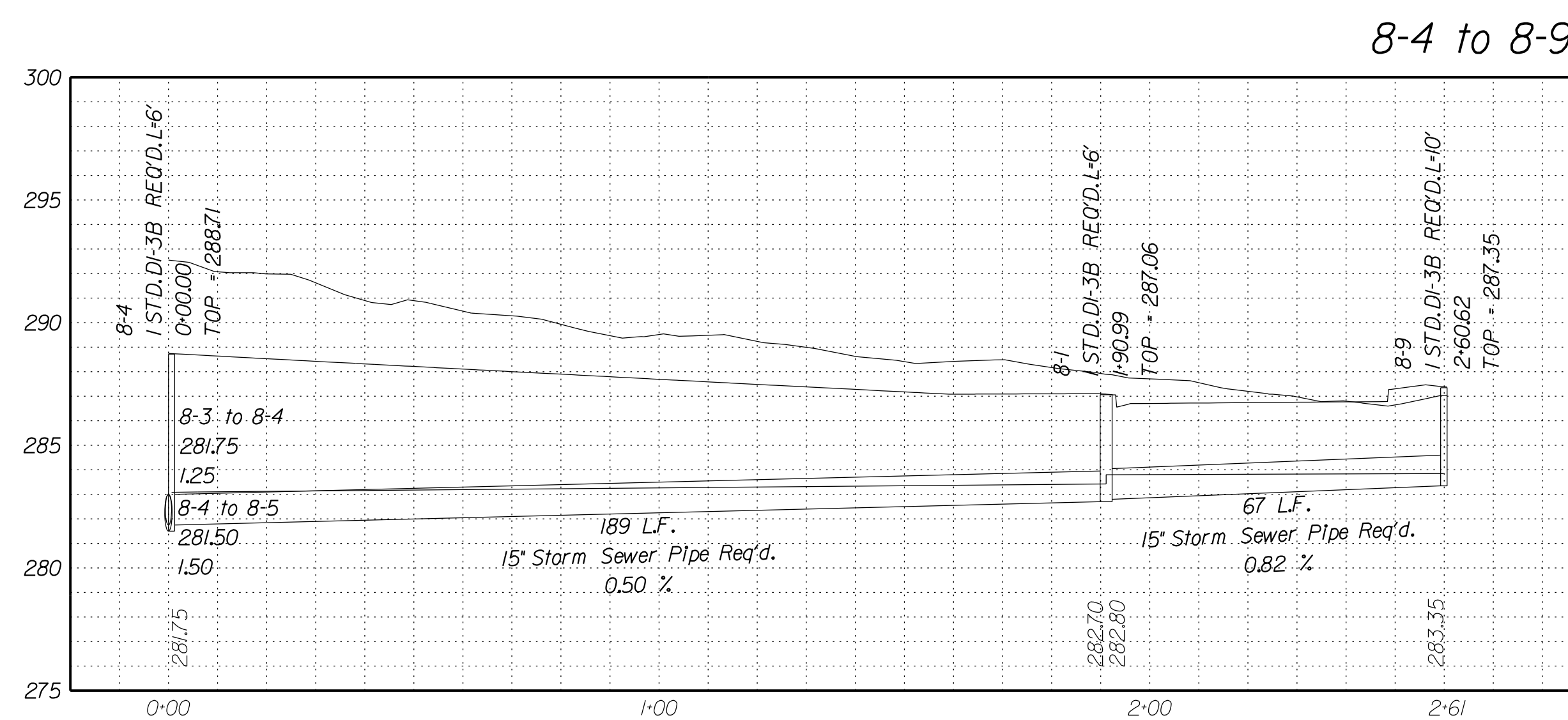
REVISED	STATE		STATE		SHEET NO.
	STATE	ROUTE	PROJECT		
	VA.	621	6234-076-266, C-501, RW-201		2N(8)

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

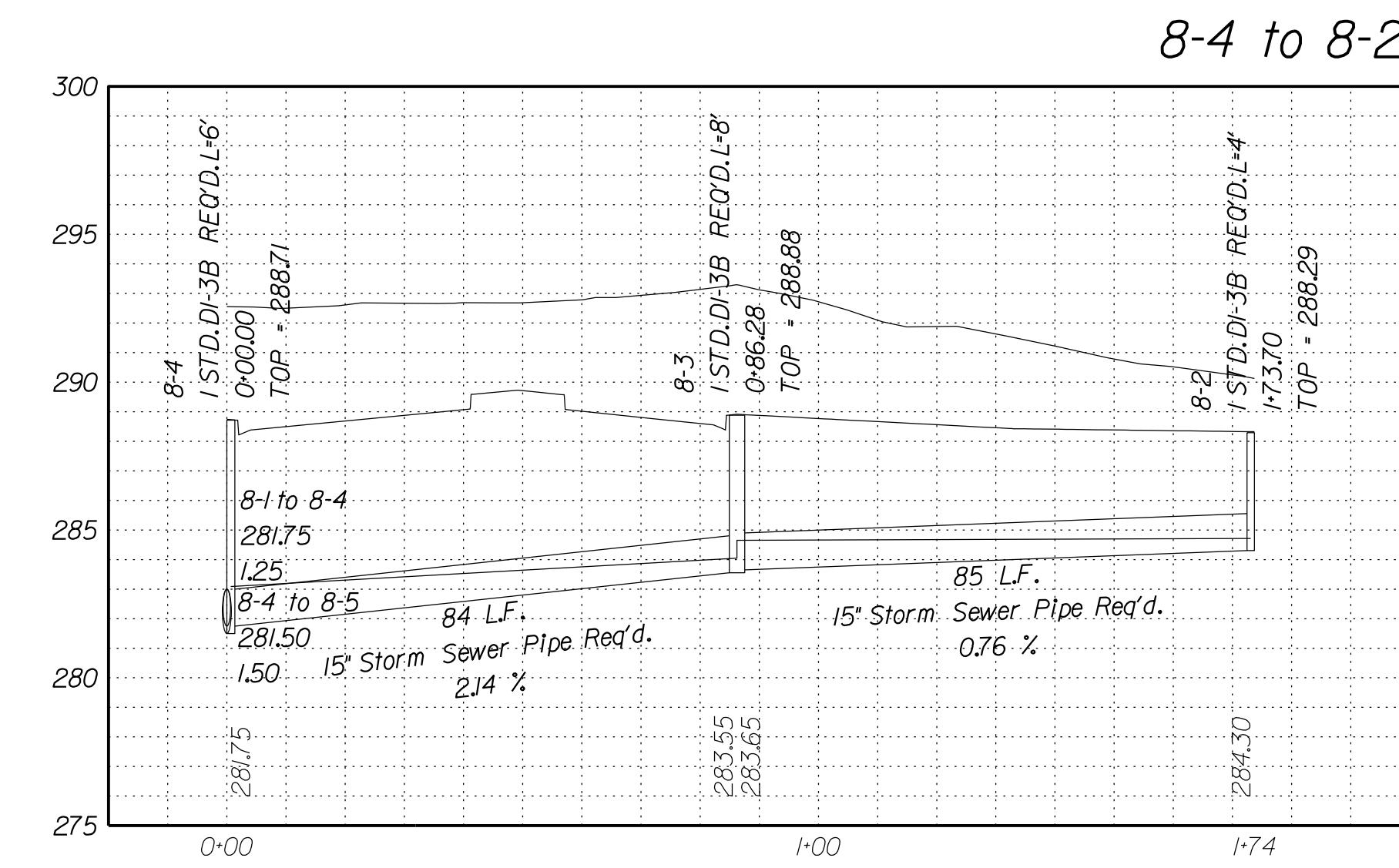
04



5-7 to 5-1



8-4 to 8-9



8-4 to 8-2

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

Legend

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

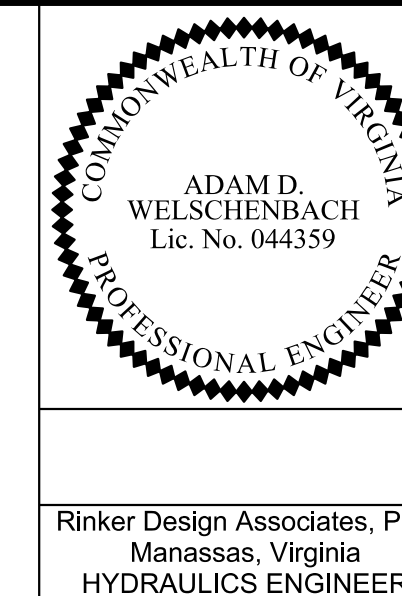
VDOT PROJECT 6234-076-266 PNC PROJECT SPR2020-00383 S03	SHEET NO. 2N(8)
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Office Locations
Rinker Design Associates, P.C.
Civil Engineering • Surveying • Land Planning
Transportation • Environmental Services
Right of Way Services

LANE NOVA DISTRICT DESIGN UNIT

PROJECT MANAGER PWC DOT, Mary Ankers (703) 792-4228
SURVEYED BY, DATE Rinker Design Associates, P.C. (703) 369-7373, April 2020
DESIGN BY Rinker Design Associates, Mark Gunn, P.E. (703) 368-7373
SUBSURFACE UTILITY BY, DATE Accurmark (703) 635-3060, May 2020

STORM SEWER PROFILES

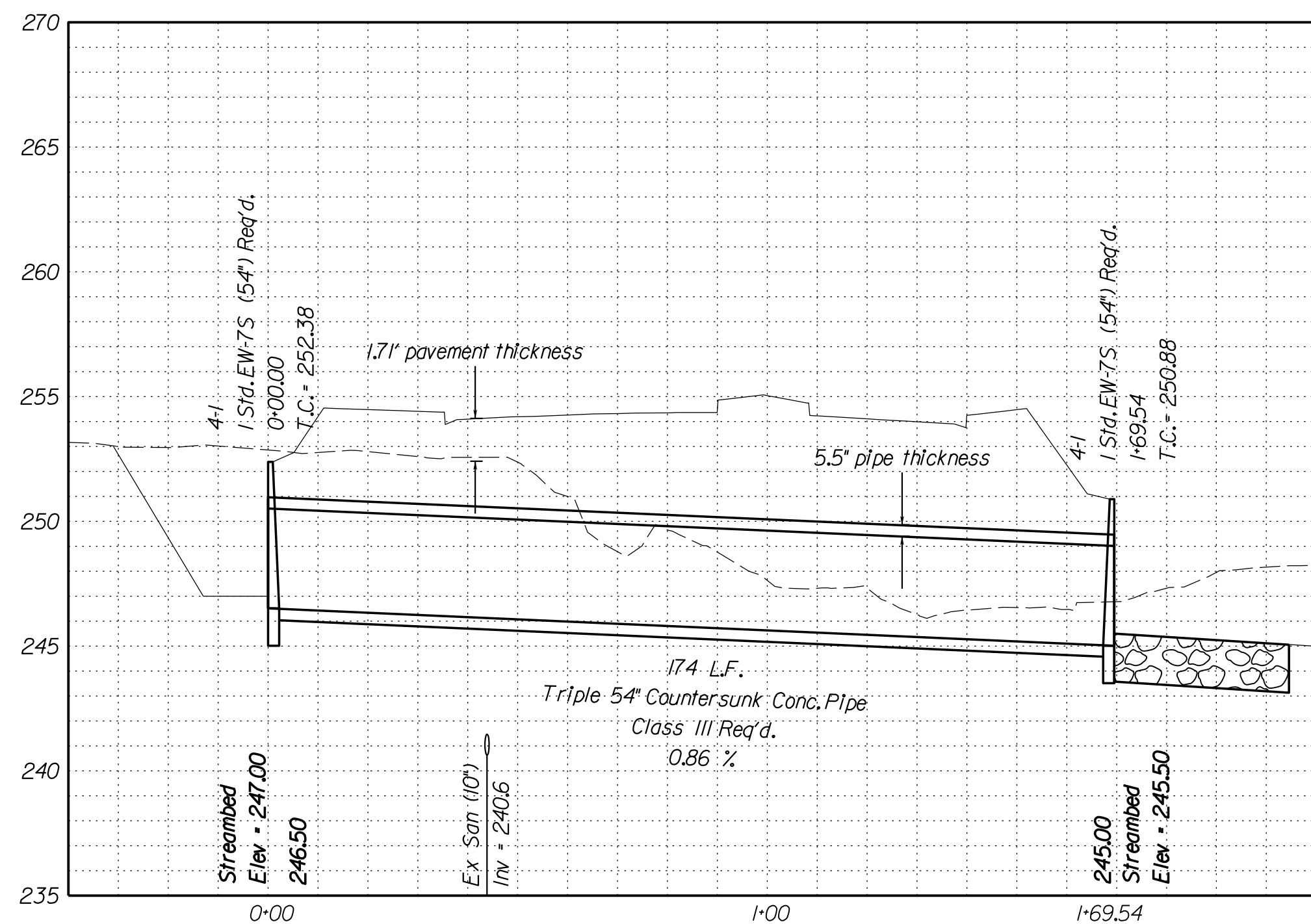


REVISED	STATE	ROUTE	STATE	PROJECT	SHEET NO.
	VA.	621		6234-076-266, C-501, RW-201	2N(18)

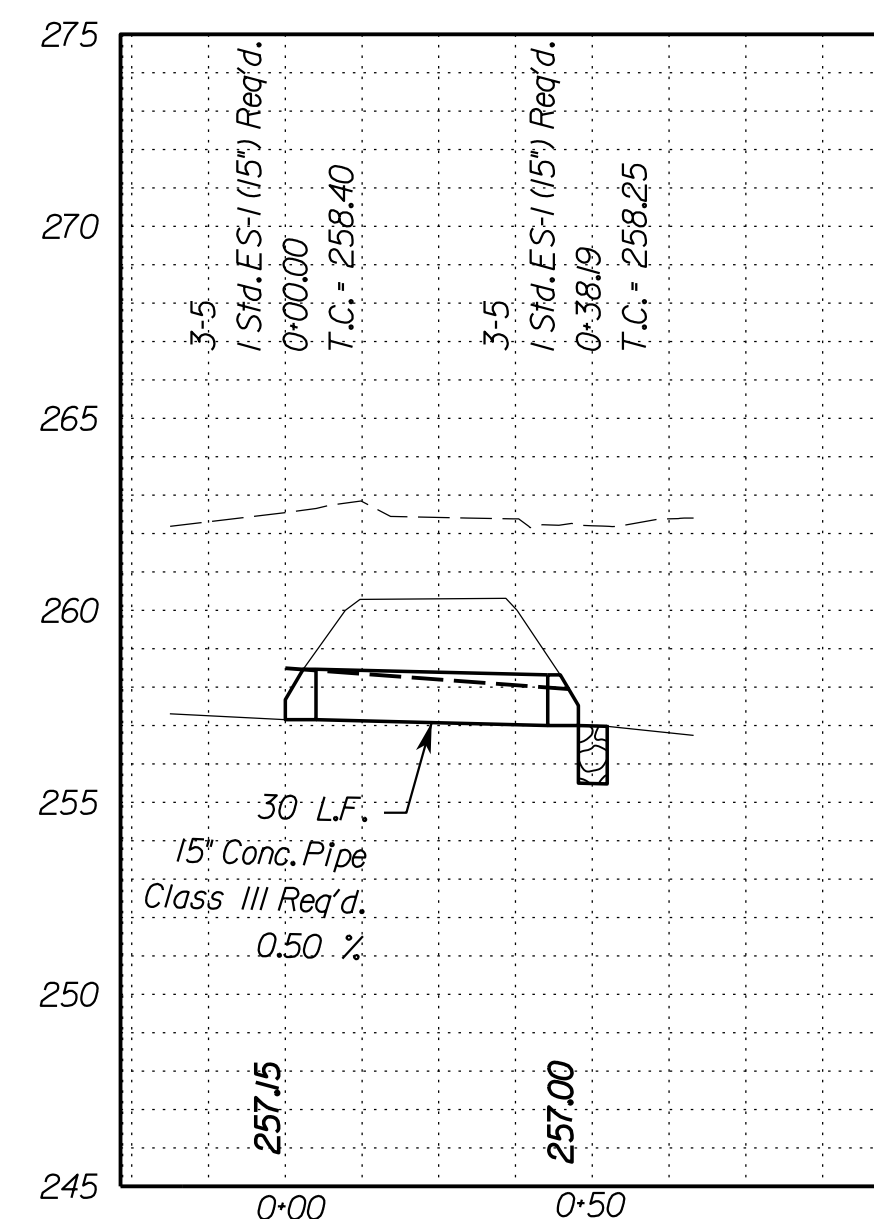
DESIGN FEATURES RELATING TO CONSTRUCTION
OR TO REGULATION AND CONTROL OF TRAFFIC
MAY BE SUBJECT TO CHANGE AS DEEMED
NECESSARY BY THE DEPARTMENT



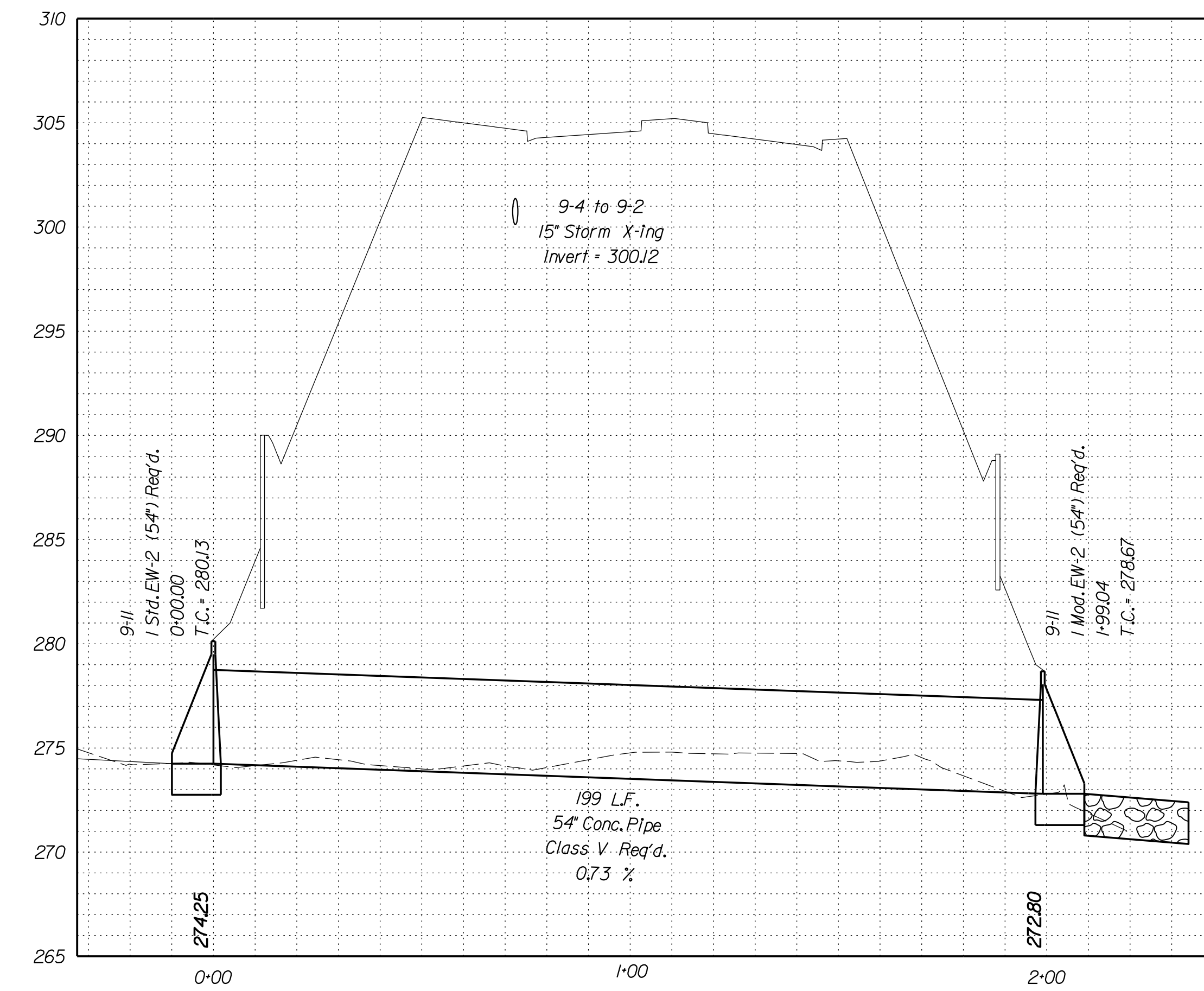
Culvert 4-1



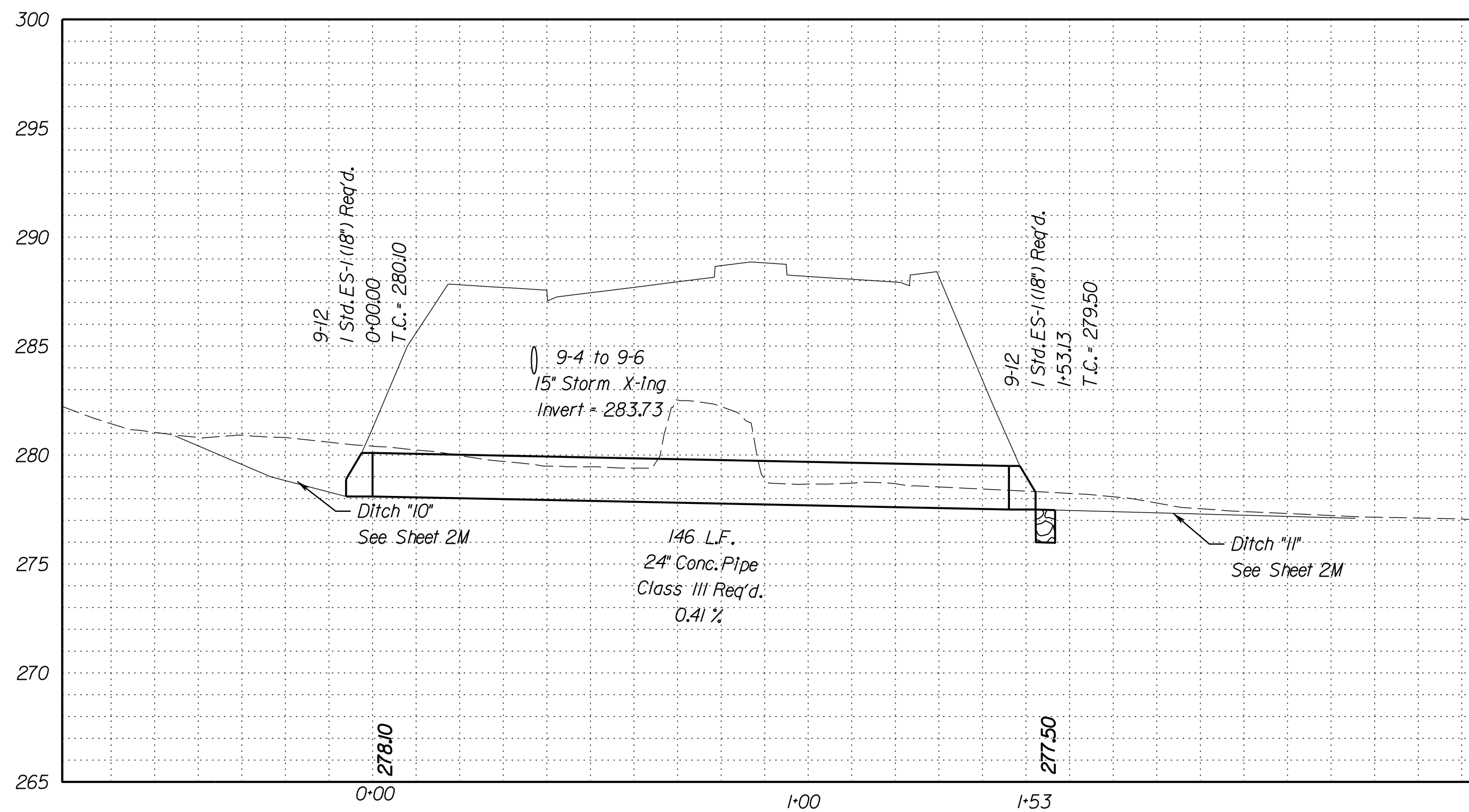
Culvert 3-5



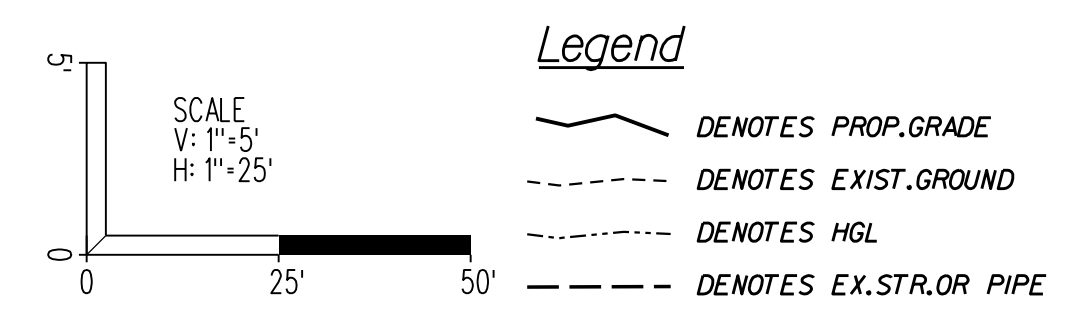
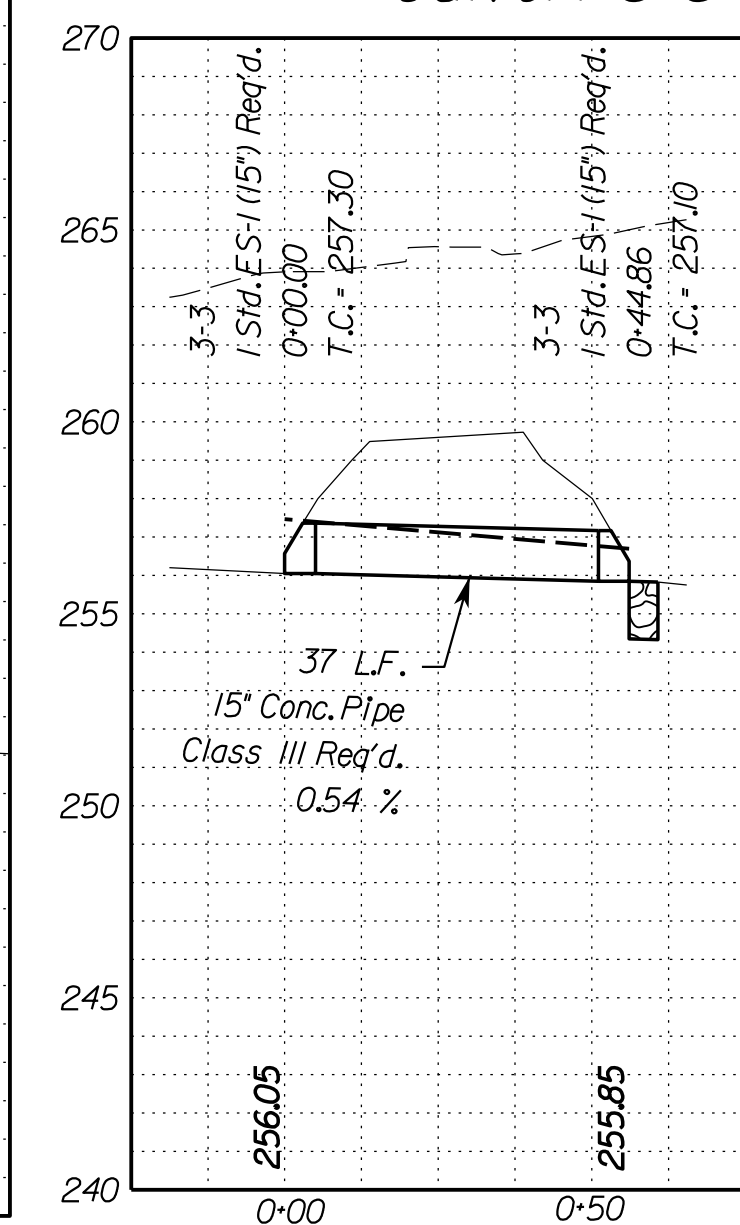
Culvert 9-11



Culvert 9-12



Culvert 3-3



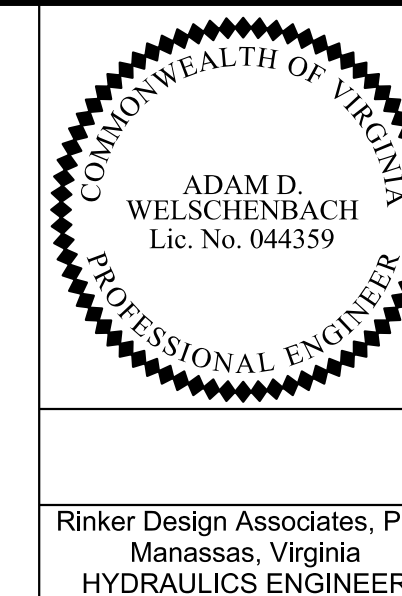
VDOT PROJECT 6234-076-266 PNC PROJECT SPR2020-00383 S03	SHEET NO. 2N(18)
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Office Locations
Design Associates, P.C.
Civil Engineering - Surveying - Land Planning
Transportation - Stormwater Management
Right of Way Services

LANE
NOVA DISTRICT DESIGN UNIT

PROJECT MANAGER PWC_DOT, Mary Ankers (703) 792-4228
SURVEYED BY, DATE Rinker Design Associates, P.C. (703) 369-7373, April 11, 2020
DESIGN BY Rinker Design Associates, Mark Gunn, P.E. (703) 368-7373
SUBSURFACE UTILITY BY, DATE Acumark (703) 635-3060, May 2020

STORM SEWER PROFILES



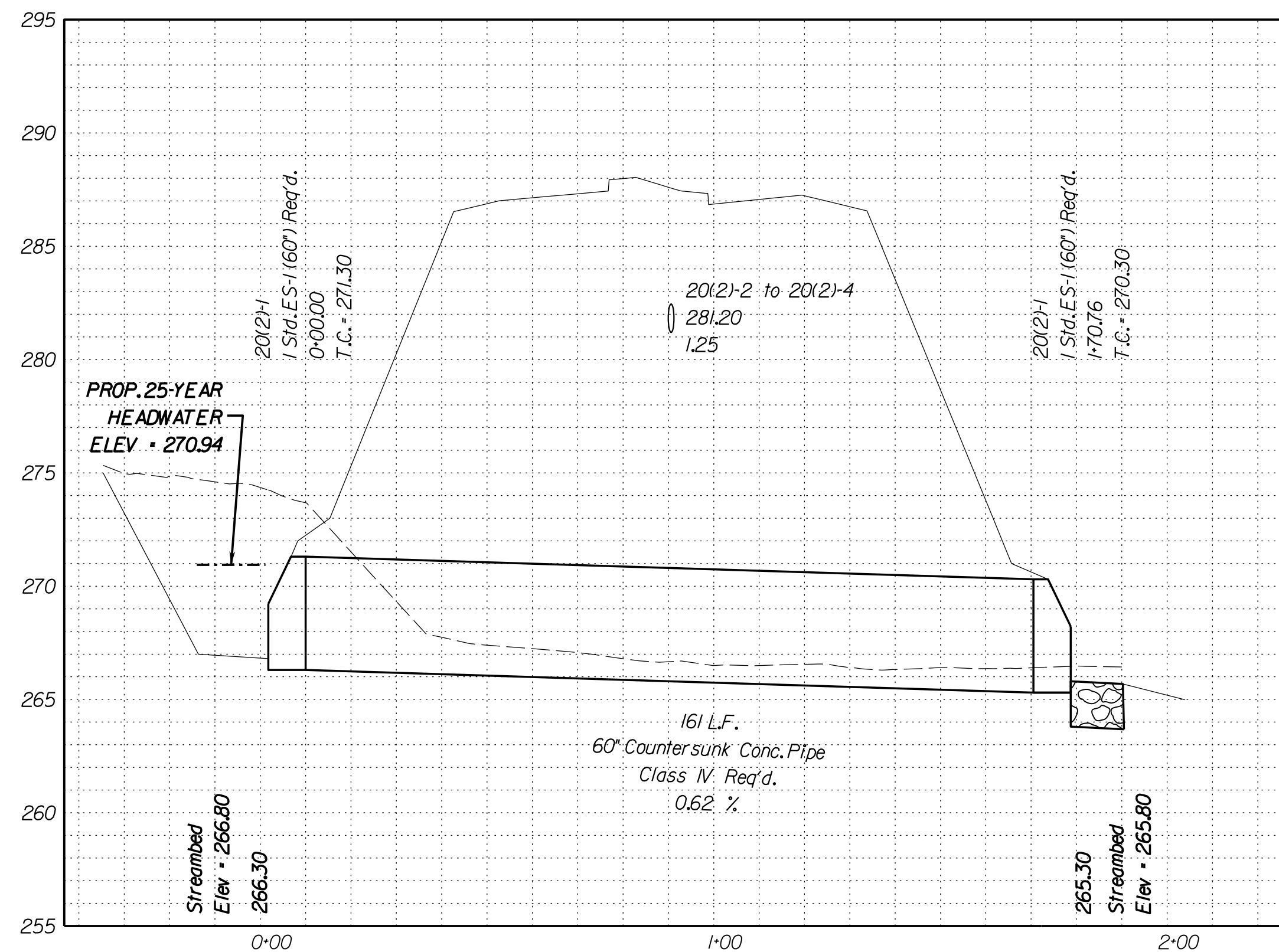
Rinker Design Associates, P.C.
Manassas, Virginia
HYDRAULICS ENGINEER

REVISED	STATE	ROUTE	STATE	PROJECT	SHEET NO.
NDC02 NDC04	VA.	621		6234-076-266, C-501, RW-201	2N(20)

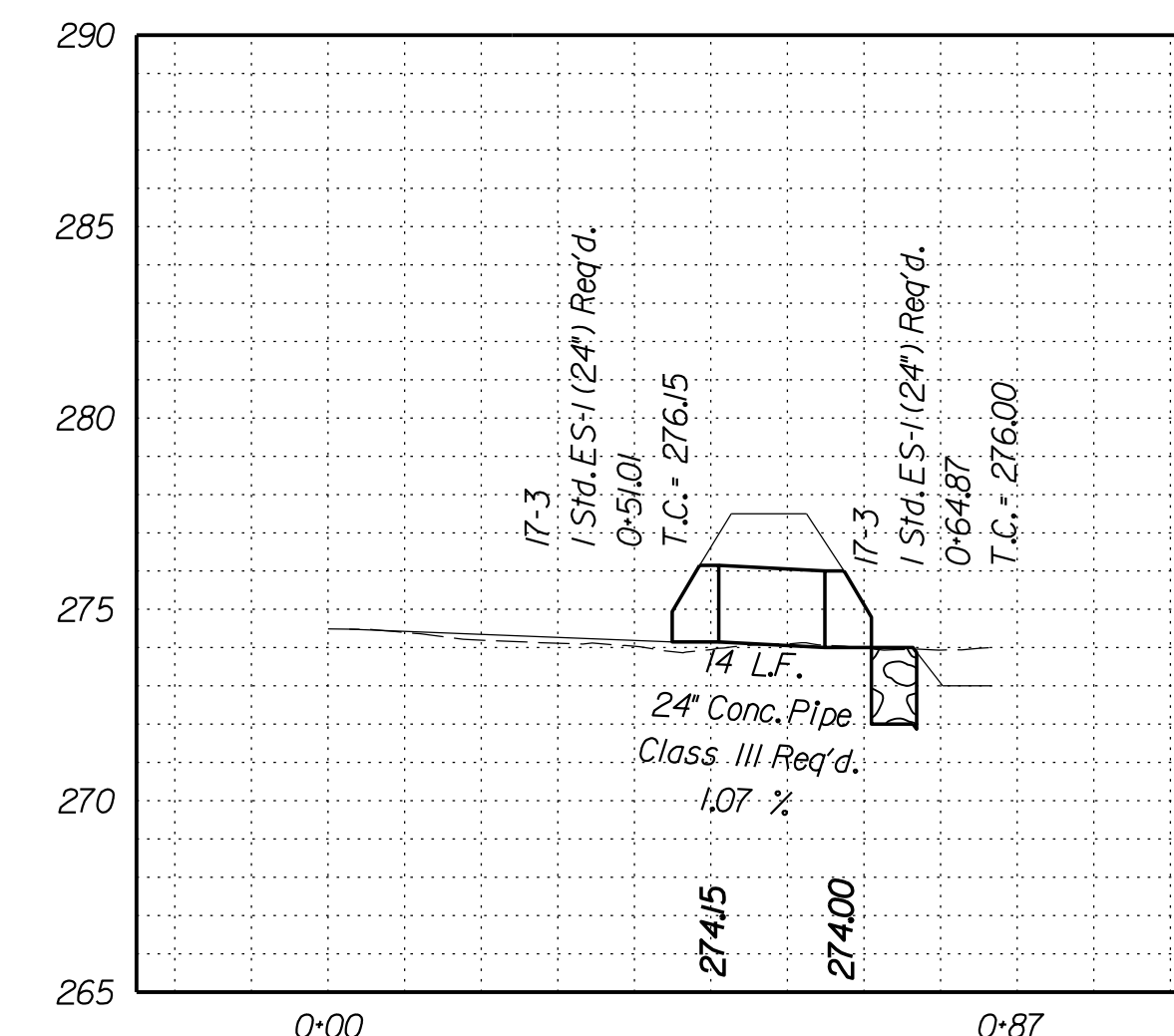
DESIGN FEATURES RELATING TO CONSTRUCTION
OR TO REGULATION AND CONTROL OF TRAFFIC
MAY BE SUBJECT TO CHANGE AS DEEMED
NECESSARY BY THE DEPARTMENT

- 02 Revised Culvert 22-6.
- 04 Revised culvert profiles.

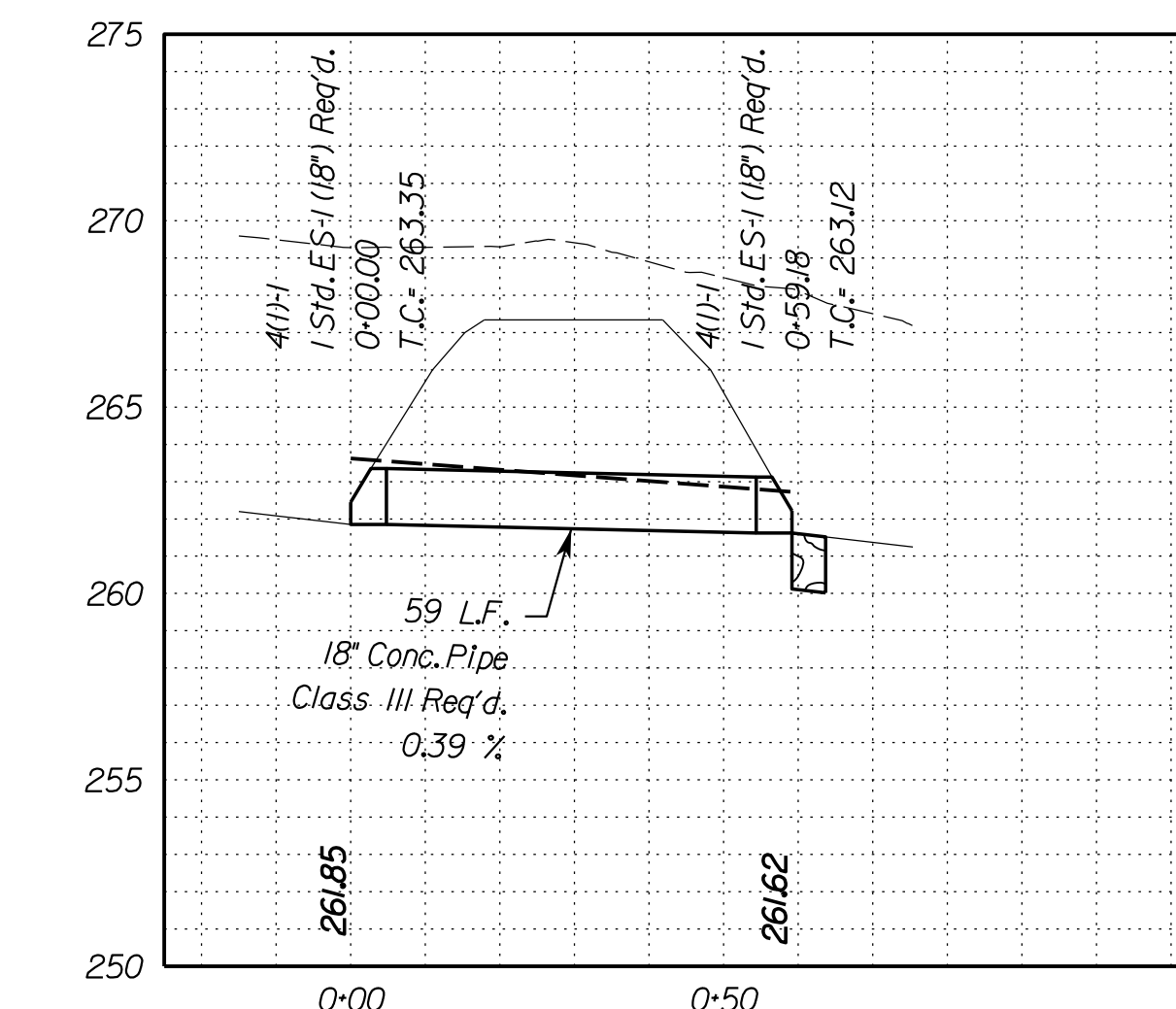
Culvert 20(2)-1



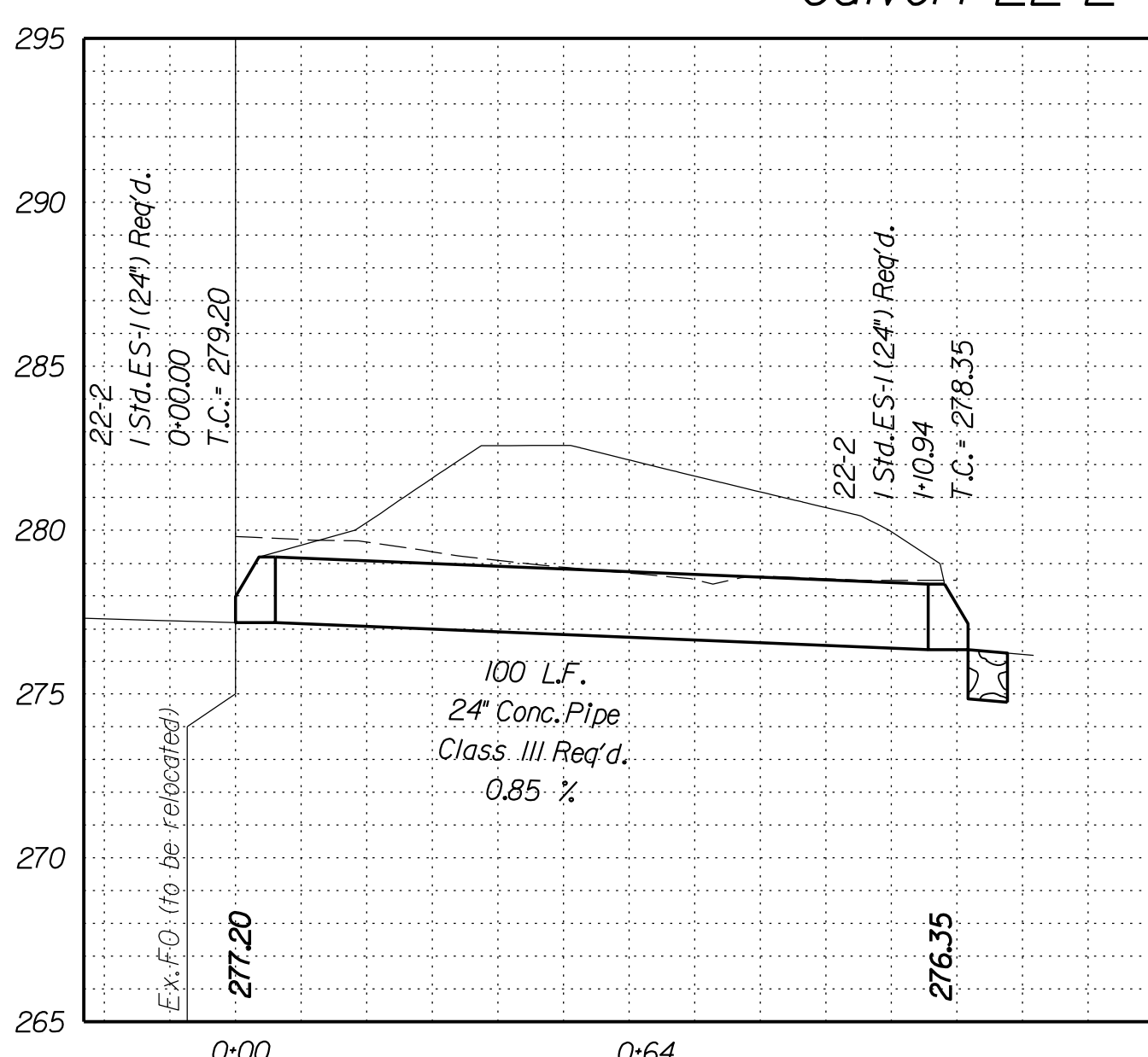
Culvert 17-3



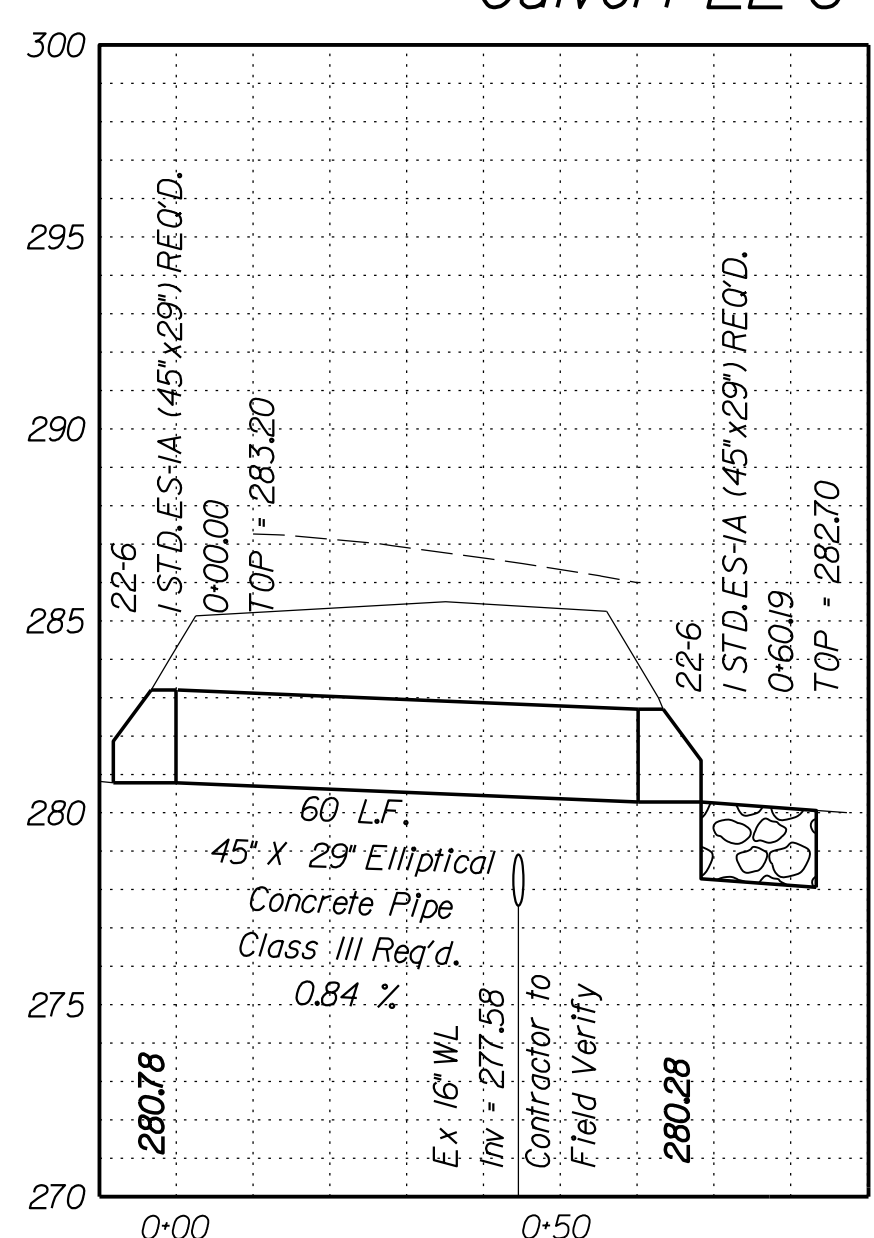
Culvert 4(1)-1



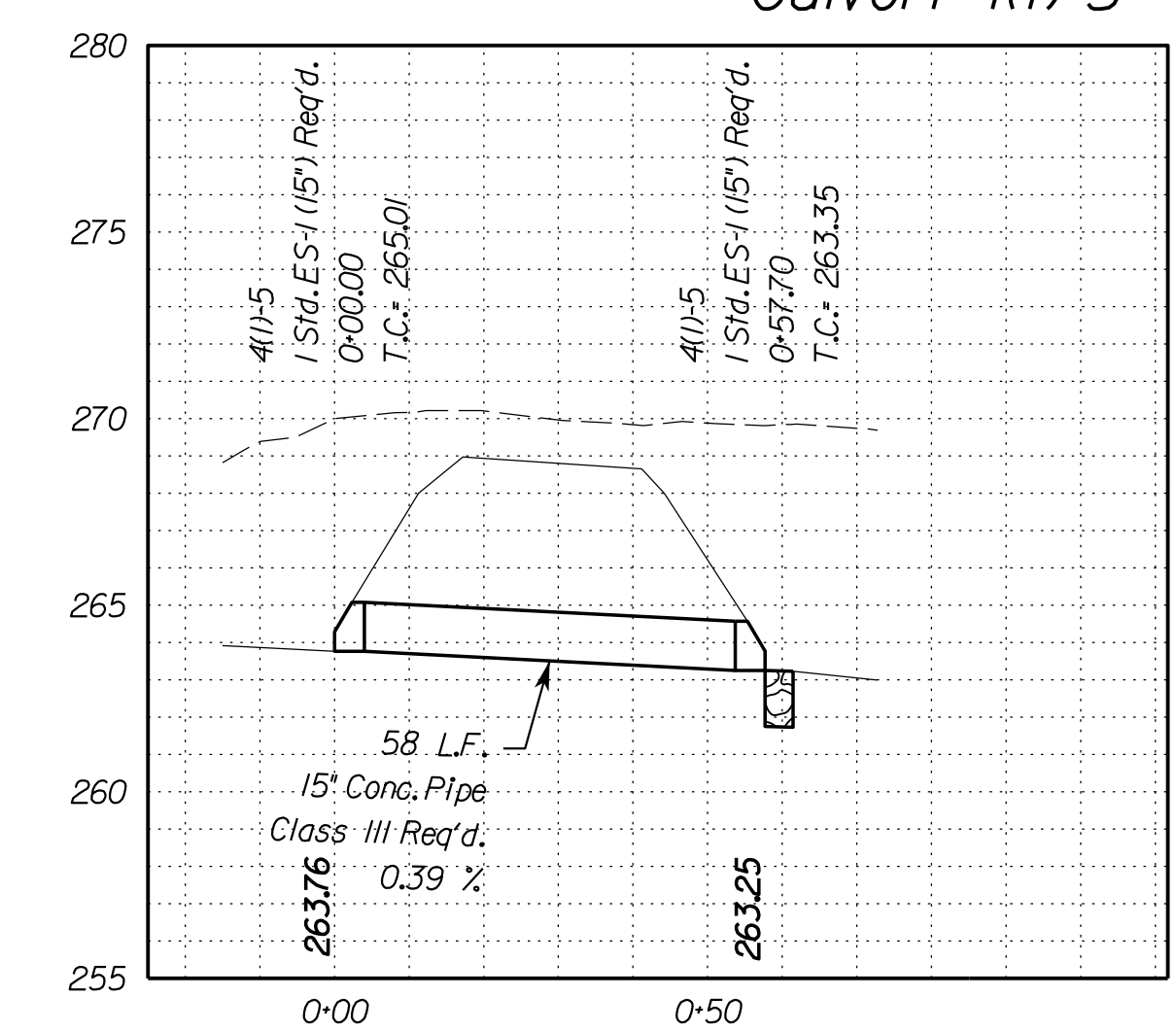
Culvert 22-2



Culvert 22-6



Culvert 4(1)-5



Legend

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

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

VDOT PROJECT 6234-076-266 PNC PROJECT SPR2020-00383 S03	SHEET NO. 2N(20)
--	---------------------

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

LANE
 NOVA DISTRICT DESIGN UNIT

PROJECT MANAGER PWC DOT, Mary Ankers (703)792-4228
SURVEYED BY, DATE Rinker Design Associates, P.C. (703) 369-7373, April 2020
DESIGN BY Rinker Design Associates, Mark Gunn, P.E. (703) 368-7373
SUBSURFACE UTILITY BY, DATE Accurmark (703) 635-3060, May 2020

04 Revised for extended project limits/realignment.

COMMONWEALTH OF VIRGINIA
PROFESSIONAL ENGINEER
ADAM D. WELSCHENBACH
Lic. No. 044359

COMMONWEALTH OF VIRGINIA
PROFESSIONAL ENGINEER
ADAM D. WELSCHENBACH
Lic. No. 044359

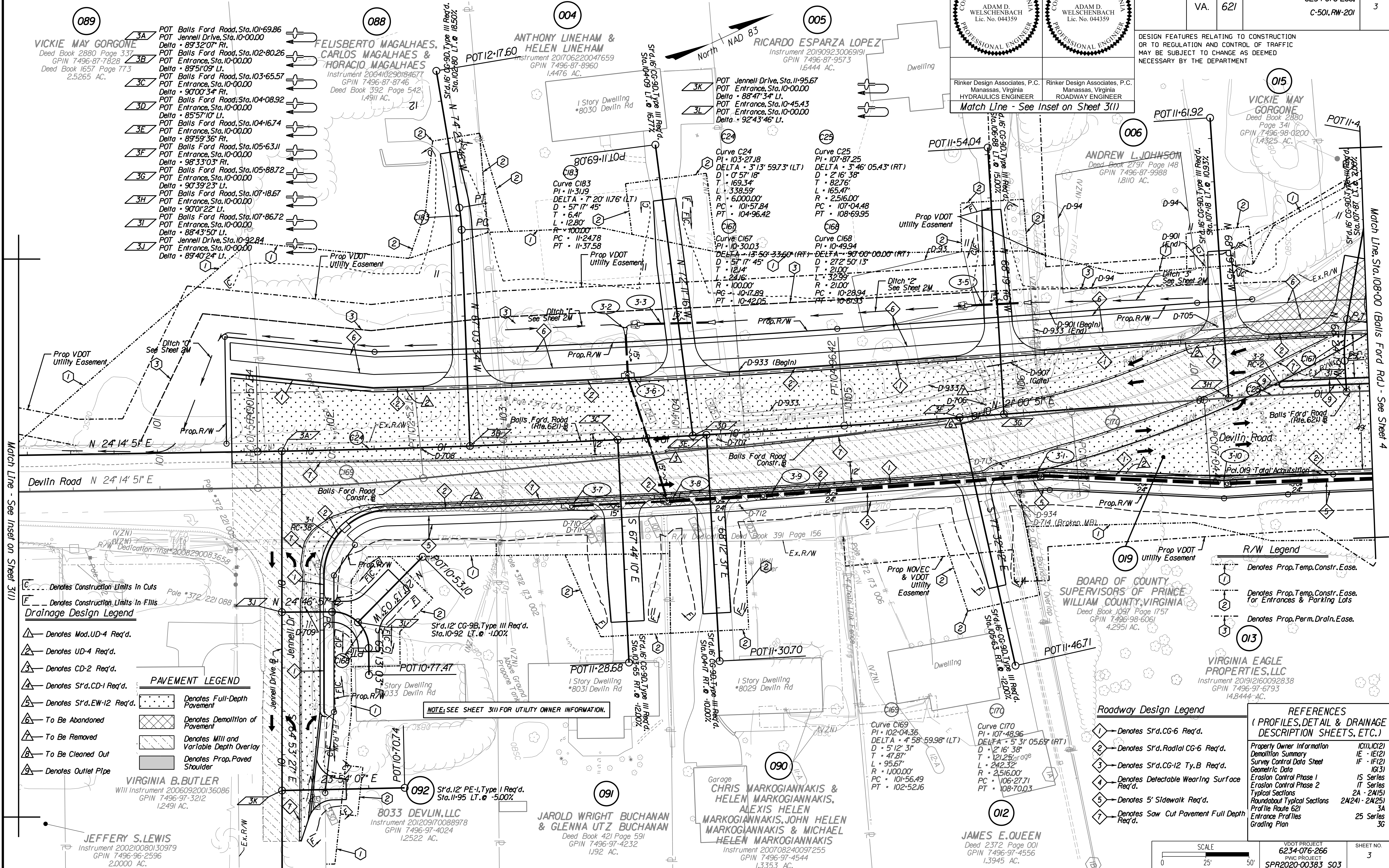
Rinker Design Associates, P.C.
Manassas, Virginia
HYDRAULICS ENGINEER

Rinker Design Associates, P.C.
Manassas, Virginia
ROADWAY ENGINEER

Match Line - See Inset on Sheet 3(1)

REVISED	STATE	ROUTE	PROJECT	SHEET NO.
NDC04	VA.	621	6234-076-266, C-501, RW-201	3

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



Design Associates, P.C. Rinker

LANE NOVA DISTRICT DESIGN UNIT

Denotes Construction Limits in Cuts
Denotes Construction Limits in Fills
Drainage Design Legend

PAVEMENT LEGEND

Denotes Full-Depth Pavement
Denotes Mill and Variable Depth Overlay
Denotes Prop. Paved Shoulder

VIRGINIA B. BUTLER
Will Instrument 200609200136086
GPIIN 7496-97-3212
1,2491 AC.

JEFFERY S. LEWIS
Instrument 200210080130979
GPIIN 7496-96-2596
2,0000 AC.

Denotes Mod. UD-4 Req'd.
Denotes UD-4 Req'd.
Denotes CD-2 Req'd.
Denotes S'd. CD-1 Req'd.
Denotes S'd. EW-12 Req'd.
To Be Abandoned
To Be Removed
To Be Cleaned Out
Denotes Outlet Pipe

Denotes Full-Depth Pavement
Denotes Mill and Variable Depth Overlay
Denotes Prop. Paved Shoulder

VIRGINIA B. BUTLER
Will Instrument 200609200136086
GPIIN 7496-97-3212
1,2491 AC.

JEFFERY S. LEWIS
Instrument 200210080130979
GPIIN 7496-96-2596
2,0000 AC.

R/W Legend
Denotes Prop. Temp. Constr. Ease.
Denotes Prop. Temp. Constr. Ease for Entrances & Parking Lots
Denotes Prop. Perm. Drain. Ease.

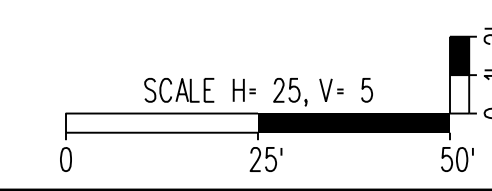
ROADWAY DESIGN LEGEND
Denotes S'd. CG-6 Req'd.
Denotes S'd. Radial CG-6 Req'd.
Denotes S'd. CG-12 Ty. B Req'd.
Denotes Detectable Wearing Surface Req'd.
Denotes 5' Sidewalk Req'd.
Denotes Saw Cut Pavement Full Depth Req'd.

REFERENCES (PROFILES, DETAIL & DRAINAGE DESCRIPTION SHEETS, ETC.)
Property Owner Information (C11), (C12)
Demolition Summary IE - IE(2)
Survey Control Data Sheet IF - IF(2)
Geometric Data IG(3)
Eraslon Control Phase 1 IS Series
Eraslon Control Phase 2 IT Series
Typical Sections 2A - 2A(15)
Roundabout Typical Sections 2A(24) - 2A(25)
Profile Route 621 3A
Entrance Profiles 25 Series
Grading Plan 3G

SCALE 0 25' 50'
VDOT PROJECT 6234-076-266
PNC PROJECT SPR2020-00363 S03
SHEET NO. 3

PROJECT MANAGER PWC_DOT: Mary Ankers (703) 792-4228
SURVEYED BY, DATE Rinker Design Associates, P.C. (703) 368-7373, April 2020
DESIGN BY Rinker Design Associates, Mark Gunn, PE (703) 368-7373
SUBSURFACE UTILITY BY, DATE Accumark (703) 635-3060, July 2019

04 Revised for extended project limits/realignment.



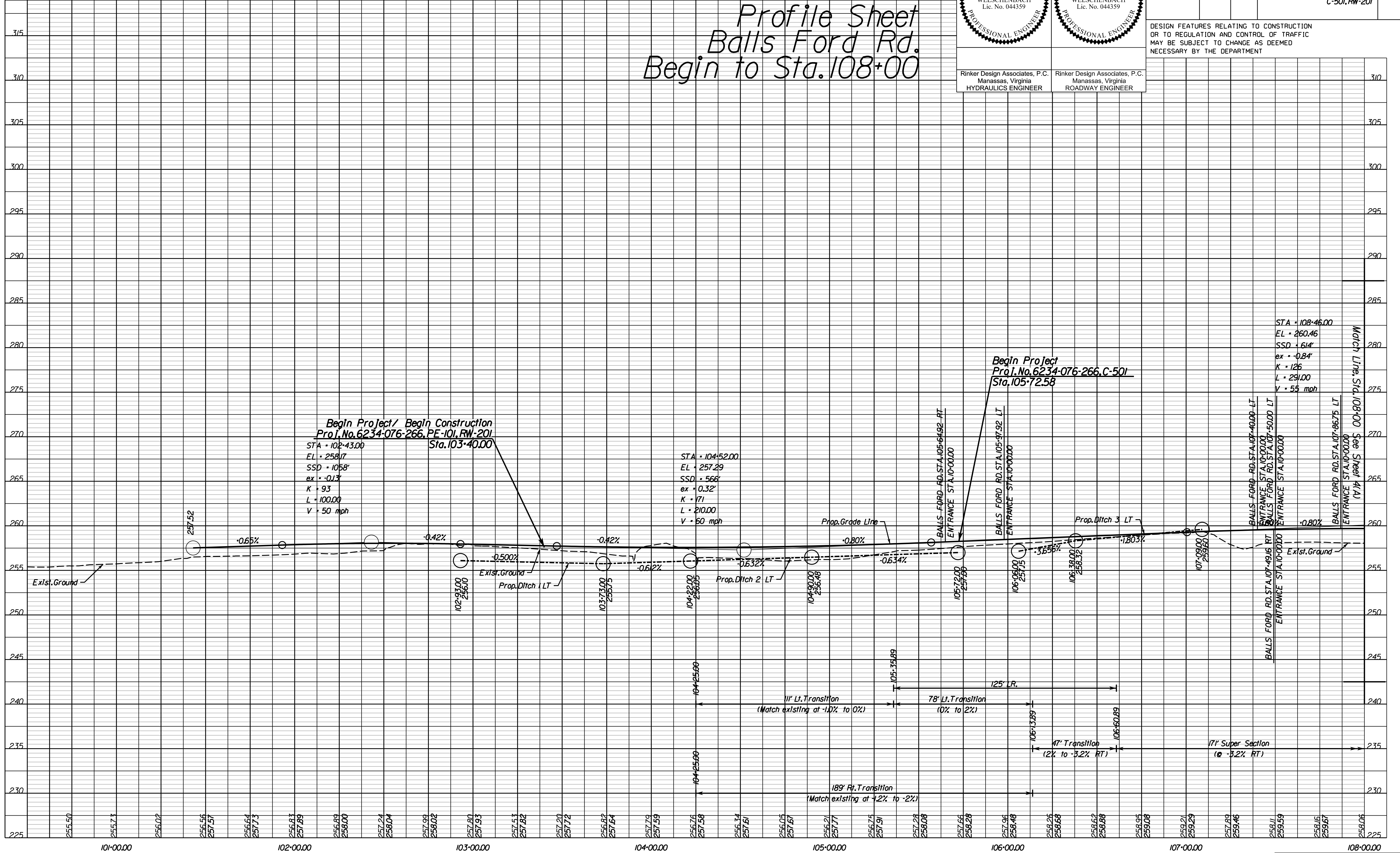
Professional Engineer seal for Adam D. Welschenbach, License No. 044359, Rinker Design Associates, P.C., Manassas, Virginia, Hydraulics Engineer.

Professional Engineer seal for Adam D. Welschenbach, License No. 044359, Rinker Design Associates, P.C., Manassas, Virginia, Roadway Engineer.

REVISED NDC04	STATE VA.	ROUTE 621	STATE PROJECT 6234-076-266, C-501, RW-201	SHEET NO. 3A
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DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT

Profile Sheet
Balls Ford Rd.
Begin to Sta. 108+00

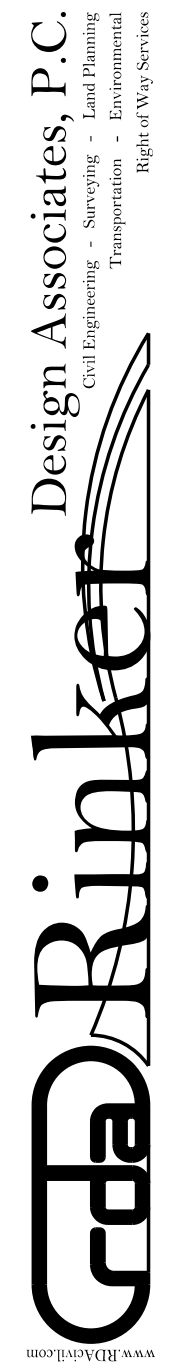


Begin Project / Begin Construction
Proj. No. 6234-076-266, PE-101, RW-201
Sta. 103+40.00
STA - 102+43.00
EL - 258.17
SSD - 1058'
ex - 0.13'
K - 93
L - 100.00
V - 50 mph

STA - 104+52.00
EL - 257.29
SSD - 566'
ex - 0.32'
K - 71
L - 210.00
V - 50 mph

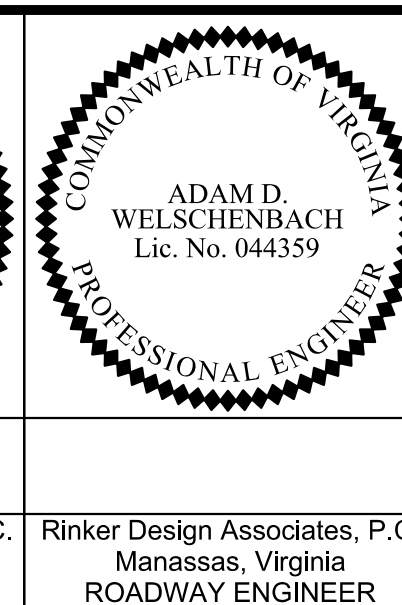
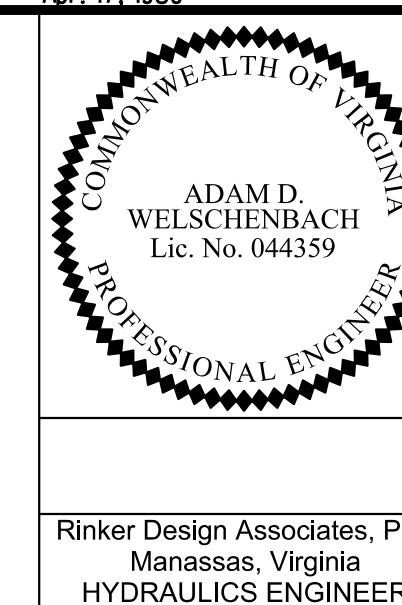
Begin Project
Proj. No. 6234-076-266, C-501
Sta. 105+72.58

STA - 108+46.00
EL - 260.46
SSD - 614'
ex - 0.84'
K - 126
L - 291.00
V - 55 mph



PROJECT MANAGER PWC_DOT_Mary Ankers (703) 792-4228
 SURVEYED BY, DATE Rinker Design Associates, P.C. (703) 369-7373, April 2020
 DESIGN BY Rinker Design Associates, Mark Gunn, PE (703) 368-7373
 SUBSURFACE UTILITY BY, DATE Acumark (703) 635-3060, May 2020

04 Added sheet for Jennell Drive extension.

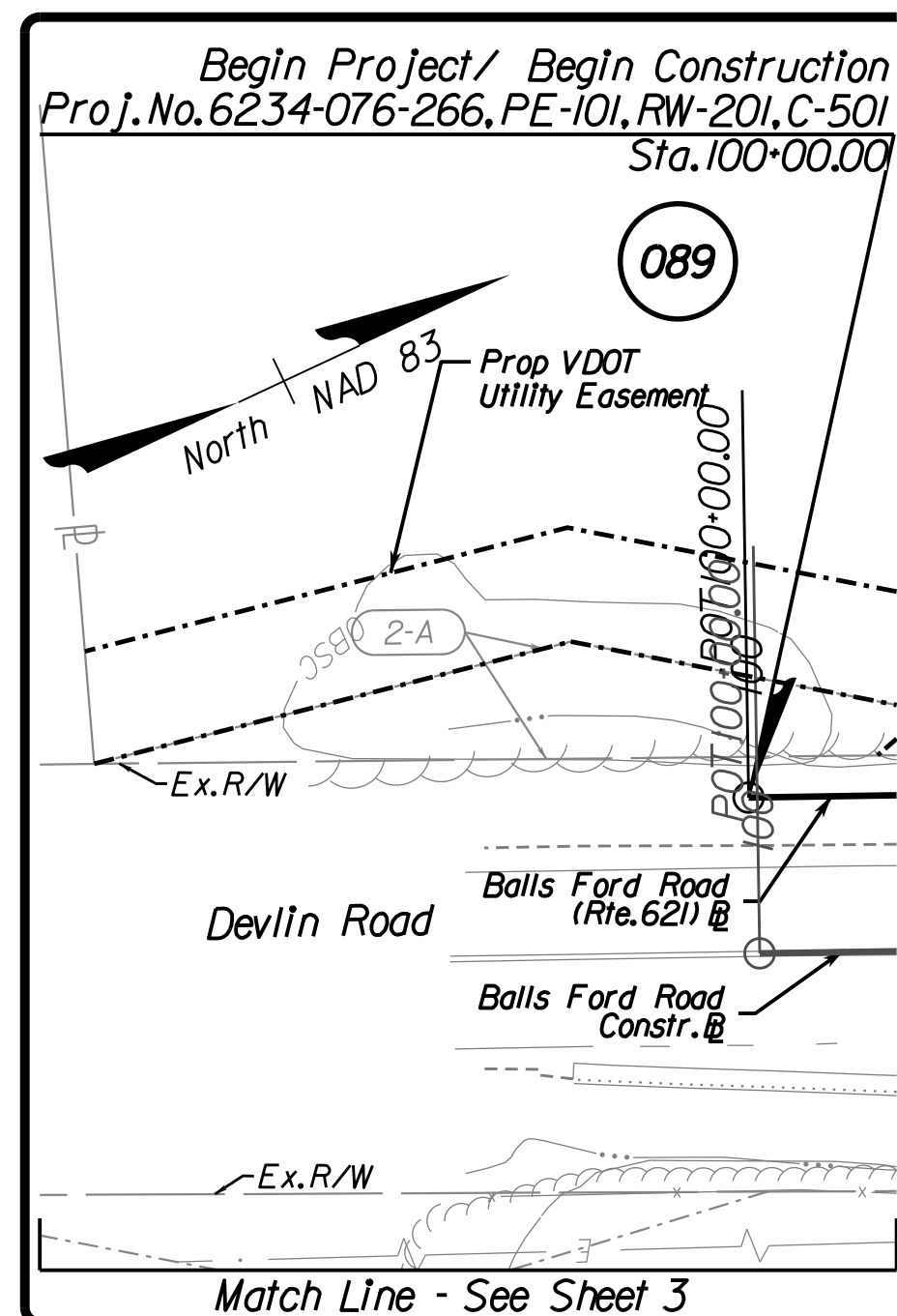
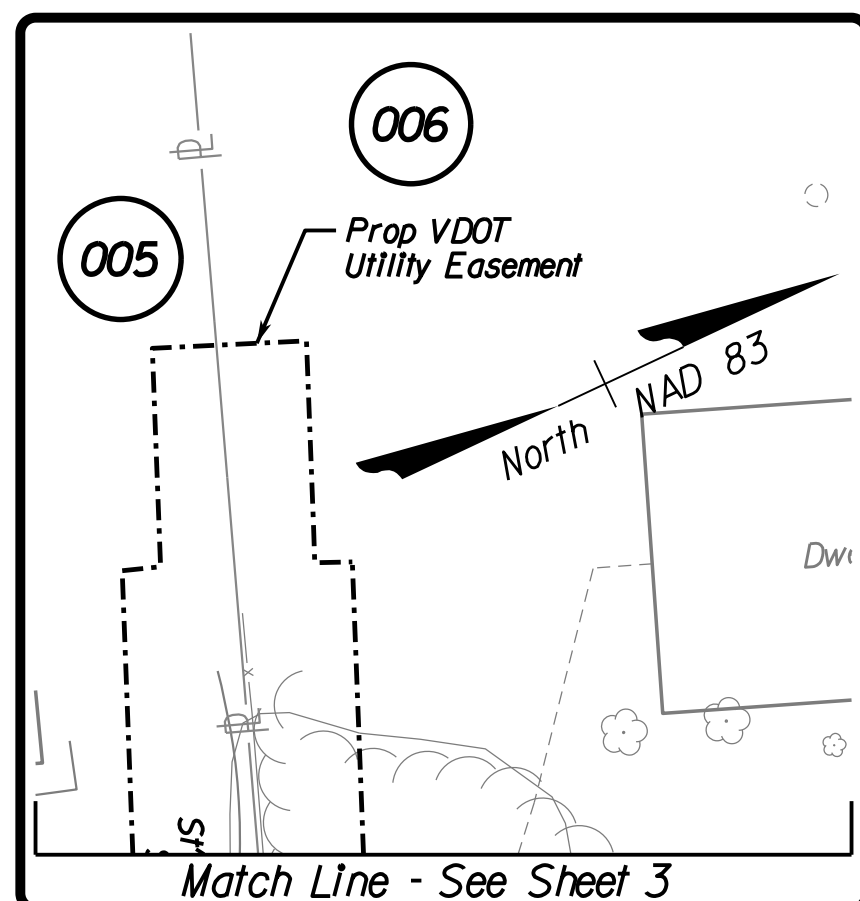


REVISED	STATE	ROUTE	STATE	PROJECT	SHEET NO.
NDC04	VA.	62/		6234-076-266, C-501, RW-201	3(1)

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. Manassas, Virginia
 HYDRAULICS ENGINEER

Rinker Design Associates, P.C. Manassas, Virginia
 ROADWAY ENGINEER



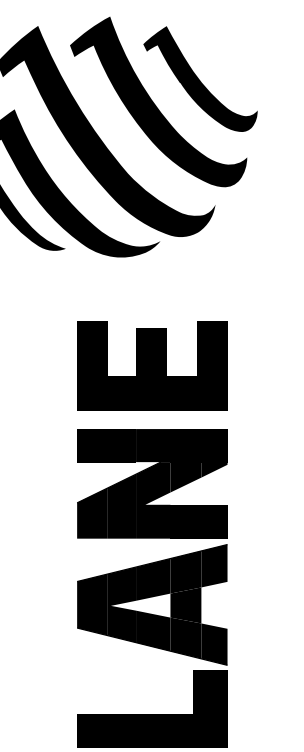
- Utility Owners:**
- | | | |
|---|--|--|
| Electric: | Water & Sewer: | Telecom Cont.: |
| Northern Virginia Electric Coop. (NVE)
14500 Minnieville Road
Woodbridge, VA 22193
(703) 392-7519 | Prince William County
Service Authority (PWS)
4 County Complex Court
Woodbridge, VA 22195
Maureen Knight
(703) 335-7930 | Fiberlight, LLC (FBL)
950 Herndon Parkway, Ste. 250
Herndon, VA 20170
Karl Stroogman
(410) 979-0384 |
| Dominion Energy (DOM)
701 E. Cary Street
Richmond, VA
Andrew J. Brooks
(804) 771-3655 | Comcast (CMC)
Planning & Design
324 W. Main Street
Charlottesville, VA
Doug Wright
(434) 951-3843 | Zayo Communications (ZAY)
1386 Sunrise Valley Drive, Ste. 450
Herndon, VA 20171
Kris Kobylski
(571) 220-4813 |
| Washington Gas (WGL)
6801 Industrial Road
Springfield, VA
Maps Administrator
(703) 750-4745 | Verizon (VZN)
9401 Peabody Street
Manassas, VA
William (Bill) Lacy
(703) 369-9571 | Metro Duct Systems Of Virginia (MDS)
Christopher Hurt
(703) 479-0305 |
| Columbia Gas (CGV)
NSource Damage Prevention Screening
1600 Dublin Road
Marble Cliff, OH 43215
(614) 481-1456 | Summit IG (SIG)
22375 Broadrick Drive, Ste. 165
Dulles, VA 20166
(703) 443-1956 | Century Link, Inc. (CTL)
Level 3 Communications (LTC)
1025 E. Dorado Blvd.
Broomfield, CO 80021
Pat Probst
(720) 888-4686 |

REFERENCES
 (PROFILES, DETAIL & DRAINAGE
 DESCRIPTION SHEETS, ETC.)

Property Owner Information	IC11, IC12
Demolition Summary	IE - IE12
Survey Control Data Sheet	IF - IF12
Erosion Control Phase 1	IS Series
Erosion Control Phase 2	IT Series

SCALE 0 25' 50'	VDOT PROJECT 6234-076-266 PING PROJECT SPR2020-00383 S03	SHEET NO. 3(1)
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Office Locations
 Design Associates, P.C.
 Civil Engineering - Surveying - Land Planning
 Transportation - Right of Way Services
 Manassas, VA
 Falls Church, VA
 Fairfax, VA
 Herndon, VA
 Reston, VA
 Springfield, VA
 Woodbridge, VA
 Yorktown, VA



NOVA DISTRICT DESIGN UNIT

PROJECT MANAGER PWC DOT-Mary Ankers (703)792-4228
 SURVEYED BY, DATE Rinker Design Associates, P.C. (703) 369-7373, April 2020
 DESIGN BY Rinker Design Associates, Mark Gunn, P.E. (703) 368-7373
 SUBSURFACE UTILITY BY, DATE Accurmark (703) 635-3060, May 2020

VICKIE MAY GORGONE
 Deed Book 2880 Page 341
 GPIN 7496-98-0200
 1,4325 AC.

VICKIE MAY GORGONE
 Deed Book 2880 Page 341
 GPIN 7496-98-0519
 1,4403 AC.

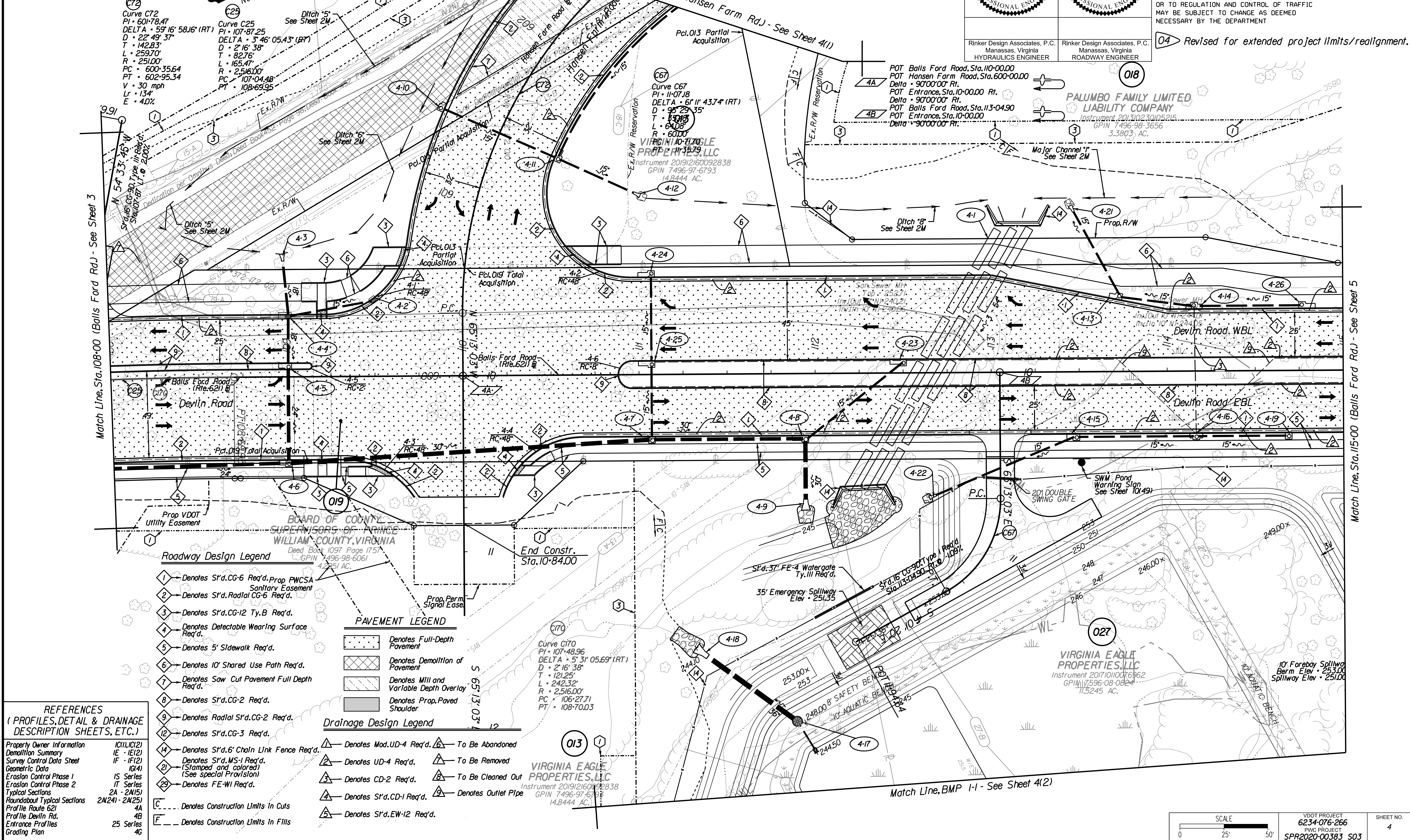
COMMONWEALTH OF VIRGINIA
 ADAM D. WELSCHENBACH
 Lic. No. 044359
 PROFESSIONAL ENGINEER

COMMONWEALTH OF VIRGINIA
 ADAM D. WELSCHENBACH
 Lic. No. 044359
 PROFESSIONAL ENGINEER

REVISED	STATE	ROUTE	PROJECT	SHEET NO.
NDC04	VA.	621	6234-076-266, C-501, RW-201	4

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

04 Revised for extended project limits/realignment.



Roadway Design Legend

- 1 - Denotes S'd.CG-6 Req'd. Prop. PWCSA Sanitary Easement
- 2 - Denotes S'd.Radial CG-6 Req'd.
- 3 - Denotes S'd.CG-12 Ty.B Req'd.
- 4 - Denotes Detectable Wearing Surface Req'd.
- 5 - Denotes 5' Sidewalk Req'd.
- 6 - Denotes 10' Shared Use Path Req'd.
- 7 - Denotes Saw Cut Pavement Full Depth Req'd.
- 8 - Denotes S'd.CG-2 Req'd.
- 9 - Denotes Radial S'd.CG-2 Req'd.
- 12 - Denotes S'd.CG-3 Req'd.
- 14 - Denotes S'd.6' Chain Link Fence Req'd.
- 21 - Denotes S'd.MS-1 Req'd. (Stamped and colored) (See special Provision)
- 29 - Denotes FE-WI Req'd.

PAVEMENT LEGEND

- Denotes Full-Depth Pavement
- Denotes Demolition of Pavement
- Denotes Mill and Variable Depth Overlay
- Denotes Prop. Paved Shoulder

Drainage Design Legend

- Denotes Mod.UD-4 Req'd.
- Denotes UD-4 Req'd.
- Denotes CD-2 Req'd.
- Denotes S'd.CD-1 Req'd.
- Denotes S'd.EW-12 Req'd.
- To Be Abandoned
- To Be Removed
- To Be Cleaned Out
- Denotes Outlet Pipe

REFERENCES
 (PROFILES, DETAIL & DRAINAGE DESCRIPTION SHEETS, ETC.)

Property Owner Information	IC(1), IC(2)
Demolition Summary	IE - IE(2)
Survey Control Data Sheet	IF - IF(2)
Geometric Data	IG(4)
Erosion Control Phase 1	IS Series
Erosion Control Phase 2	IT Series
Typical Sections	2A - 2A(15)
Roundabout Typical Sections	2A(24) - 2A(25)
Profile Route 621	4A
Profile Deviln Rd.	4B
Entrance Profiles	25 Series
Grading Plan	4G

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 Instrument 201912160092838
 GPIN 7496-97-6793
 14,844 AC.

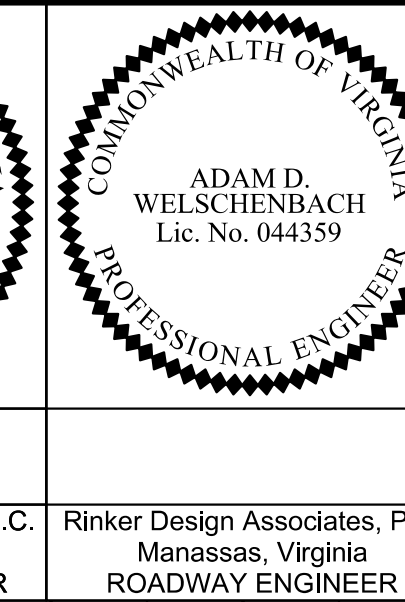
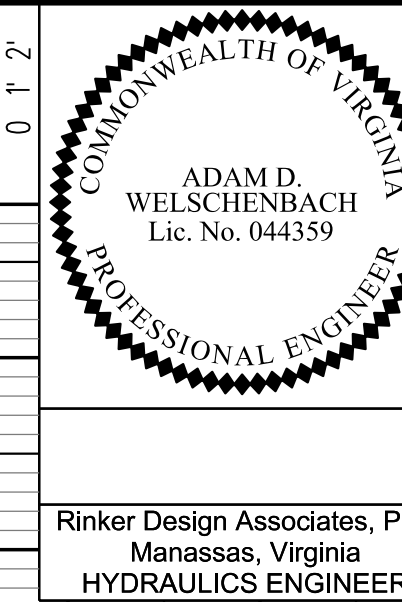
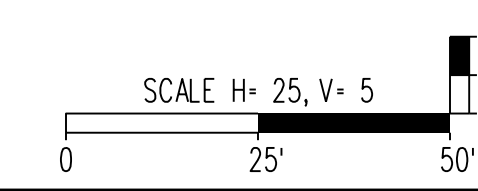
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 GPIN 7596-08-0824
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SCALE	0 25' 50'
VDOT PROJECT	6234-076-266
PWC PROJECT	SPR2020-00383_S03
SHEET NO.	4

NOVA DISTRICT DESIGN UNIT
 LANE
 Design Associates, P.C.
 Rinker
 Office Locations: Manassas, VA; Fairfax, VA; Falls Church, VA; Herndon, VA; Reston, VA; Tyngsboro, VA; Warrenton, OR; Washington, DC; York, PA

PROJECT MANAGER PWC_DOT: Mary Ankers (703) 792-4228
SURVEYED BY, DATE Rinker Design Associates, P.C. (703) 368-7373, April 11, 2020
DESIGN BY Rinker Design Associates, Mark Gunn, P.E. (703) 368-7373
SUBSURFACE UTILITY BY, DATE AccuMark (703) 635-3060, July 2019

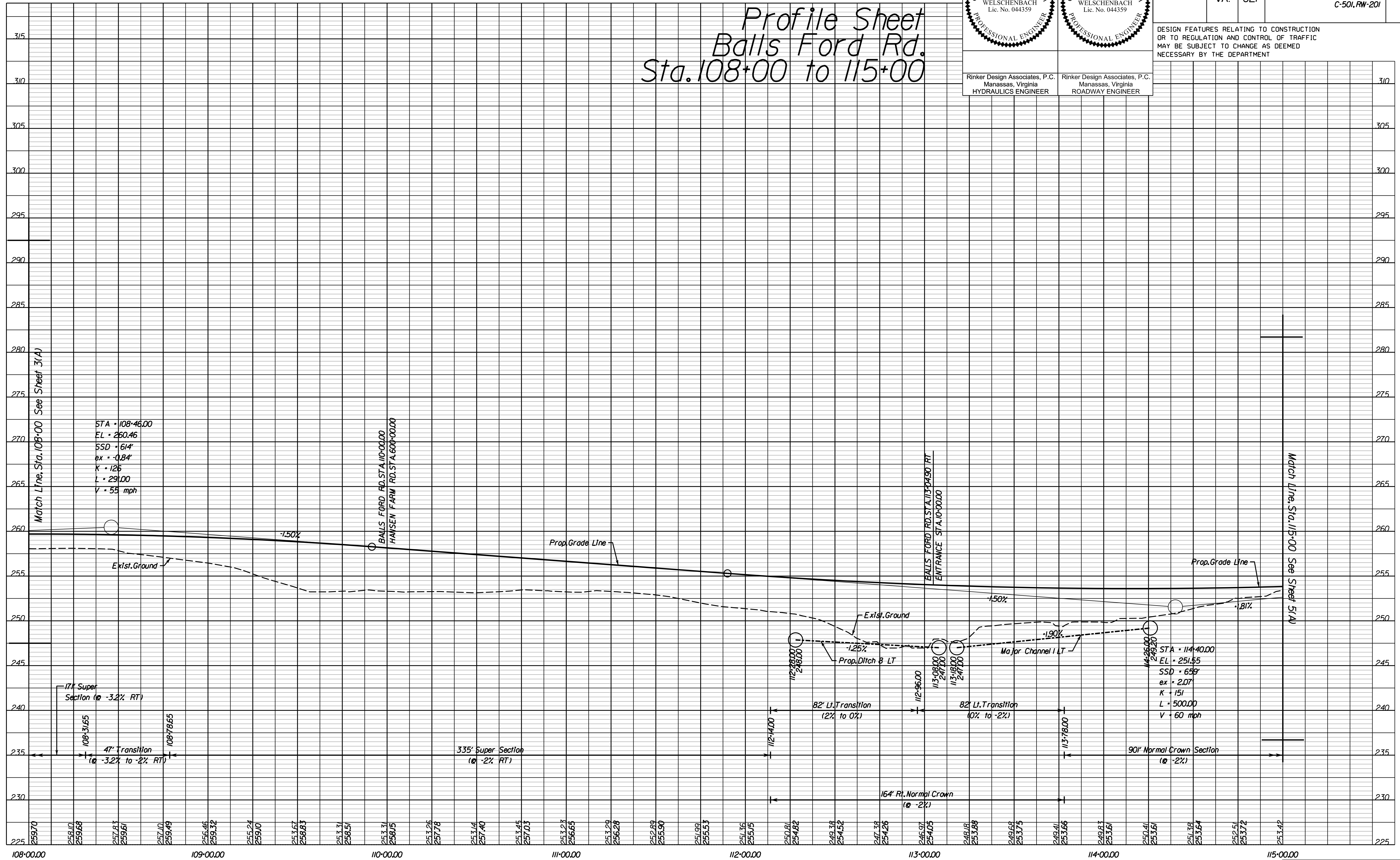
04 Revised for extended project limits/realignment.



REVISED NDC04	STATE VA.	ROUTE 621	STATE PROJECT 6234-076-266, C-501, RW-201	SHEET NO. 4A
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DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT

Profile Sheet
Balls Ford Rd.
Sta. 108+00 to 115+00



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

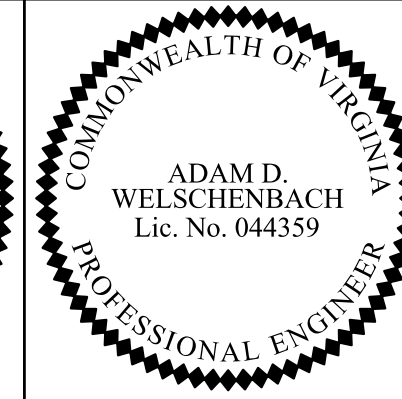
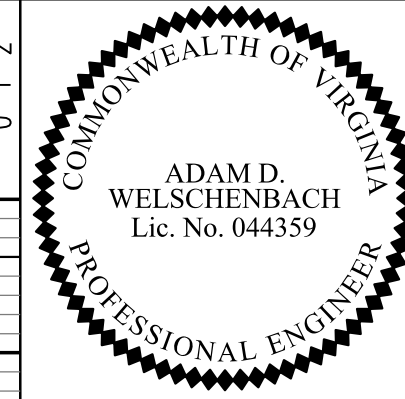
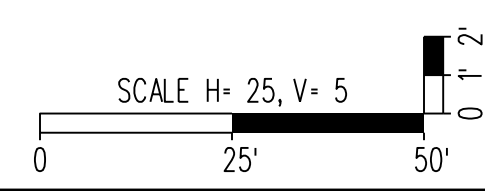


LANE

NOVA DISTRICT DESIGN UNIT

PROJECT MANAGER PWC_DOT: Mary Ankers (703) 792-4228
 SURVEYED BY, DATE Rinker Design Associates, P.C. (703) 368-7373, April 2020
 DESIGN BY Rinker Design Associates, Mark Gunn, PE (703) 368-7373
 SUBSURFACE UTILITY BY, DATE AccuMark (703) 635-3060, July 2019

04 Revised for extended project limits/realignment.



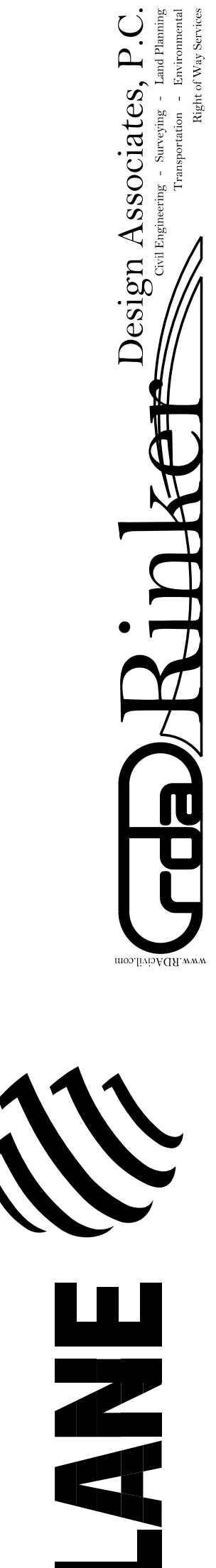
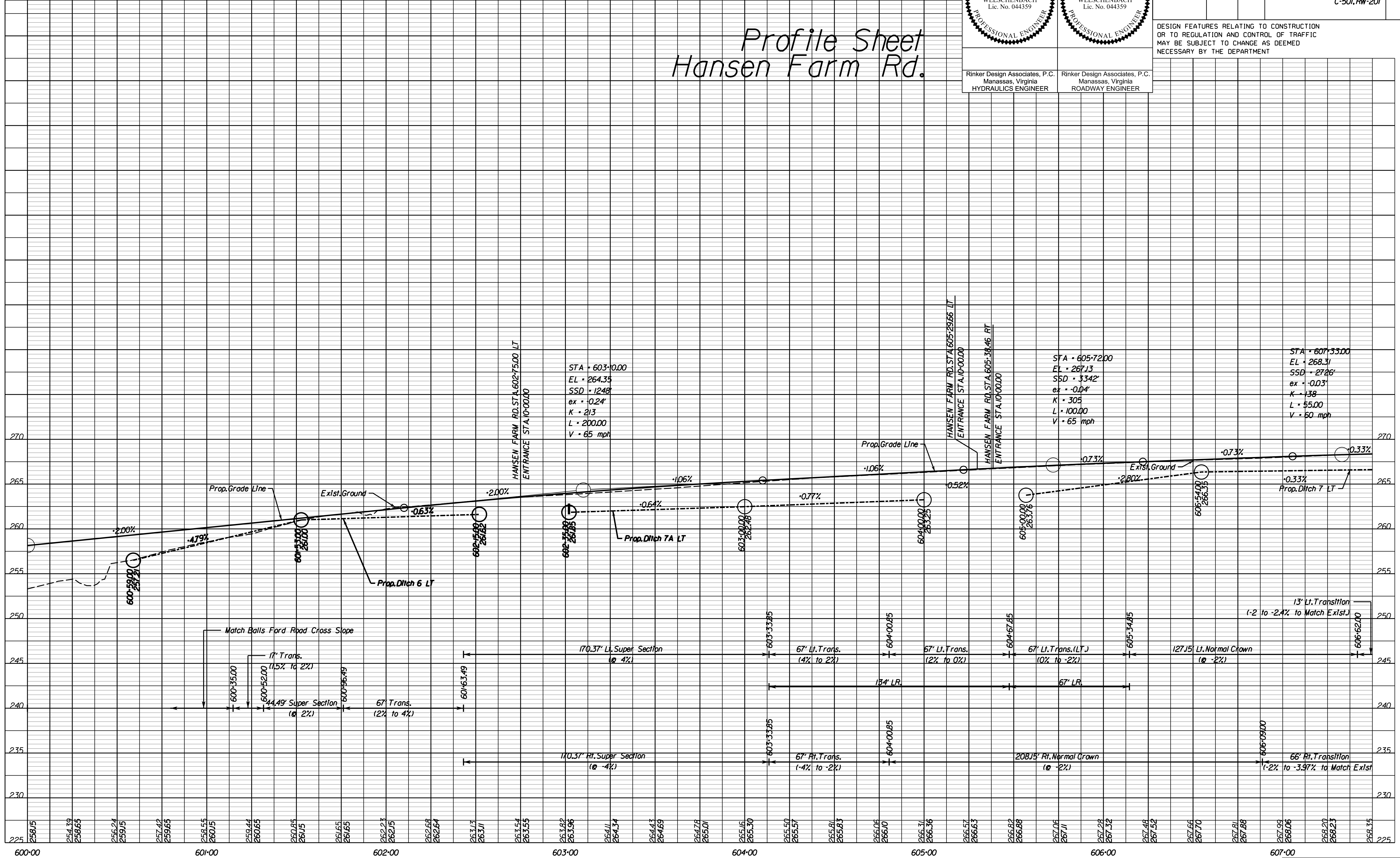
Rinker Design Associates, P.C.
 Manassas, Virginia
 HYDRAULICS ENGINEER

Rinker Design Associates, P.C.
 Manassas, Virginia
 ROADWAY ENGINEER

REVISED NDC04	STATE VA.	ROUTE 621	STATE PROJECT 6234-076-266, C-501, RW-201	SHEET NO. 4B
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DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT

Profile Sheet Hansen Farm Rd.



PROJECT MANAGER PWC DOT, Mary Ankers (703) 792-4228
SURVEYED BY, DATE Rinker Design Associates, P.C. (703) 369-7373, April 2020
DESIGN BY Rinker Design Associates, Mark Gunn, P.E. (703) 368-7373
SUBSURFACE UTILITY BY, DATE Accurmark (703) 635-3060, May 2020

04 Revised for extended project limits/realignment.

COMMONWEALTH OF VIRGINIA
ADAM D. WELSCHENBACH
Lic. No. 044359
PROFESSIONAL ENGINEER

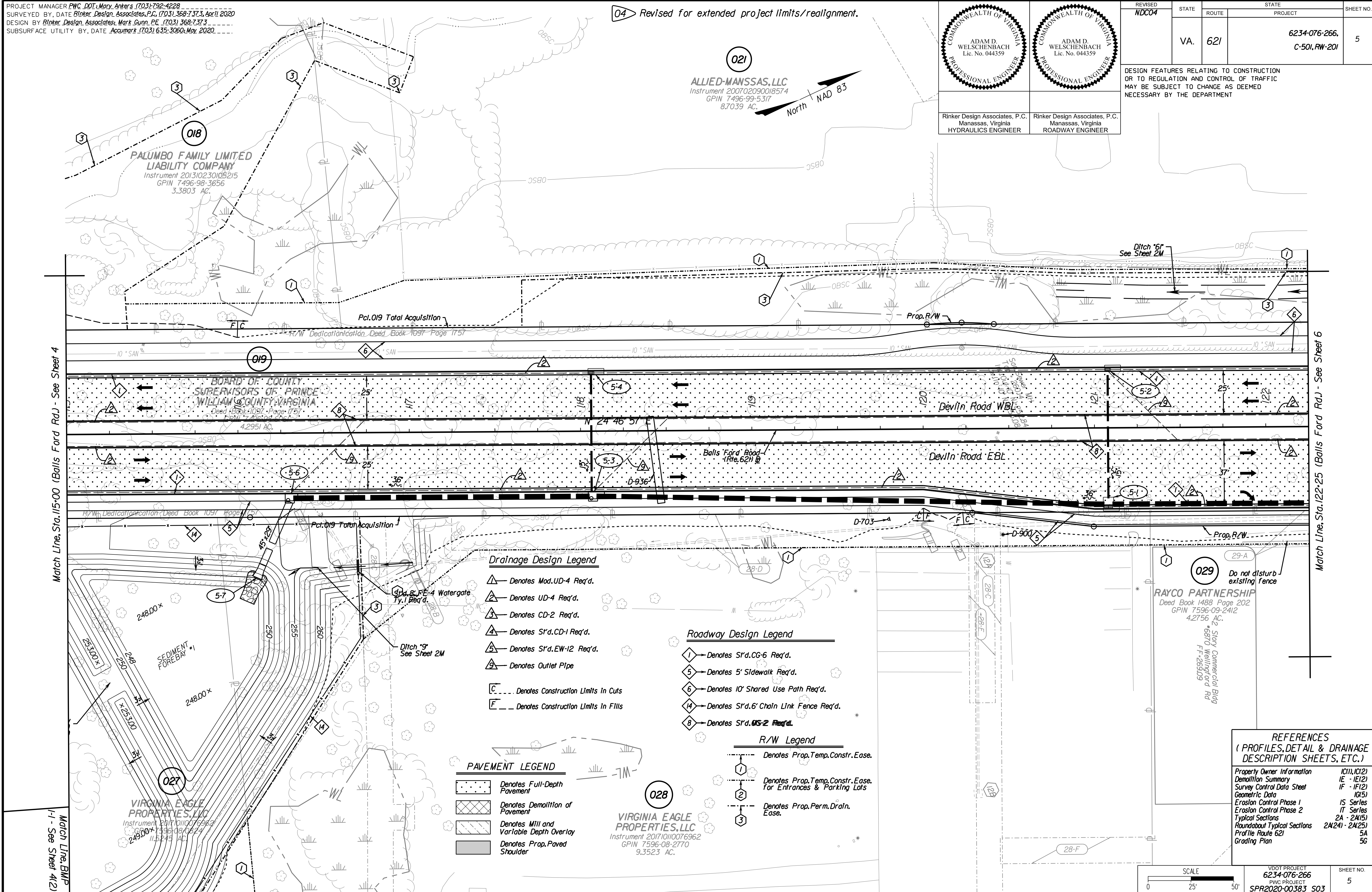
COMMONWEALTH OF VIRGINIA
ADAM D. WELSCHENBACH
Lic. No. 044359
PROFESSIONAL ENGINEER

Rinker Design Associates, P.C.
Manassas, Virginia
HYDRAULICS ENGINEER

Rinker Design Associates, P.C.
Manassas, Virginia
ROADWAY ENGINEER

REVISED	STATE	ROUTE	PROJECT	SHEET NO.
NDC04	VA.	621	6234-076-266, C-501, RW-201	5

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



Drainage Design Legend

- ▲ Denotes Mod.UD-4 Req'd.
- ▲ Denotes UD-4 Req'd.
- ▲ Denotes CD-2 Req'd.
- ▲ Denotes S'd.CD-1 Req'd.
- ▲ Denotes S'd.EW-12 Req'd.
- ▲ Denotes Outlet Pipe
- C... Denotes Construction Limits in Cuts
- F... Denotes Construction Limits in Fills

PAVEMENT LEGEND

- Denotes Full-Depth Pavement
- Denotes Demolition of Pavement
- Denotes Mill and Variable Depth Overlay
- Denotes Prop.Paved Shoulder

Roadway Design Legend

- 1 Denotes S'd.CG-6 Req'd.
- 5 Denotes 5' Sidewalk Req'd.
- 6 Denotes 10' Shared Use Path Req'd.
- 14 Denotes S'd.6' Chain Link Fence Req'd.
- 8 Denotes S'd.OS-2 Req'd.

R/W Legend

- Denotes Prop.Temp.Constr.Ease.
- 1 Denotes Prop.Temp.Constr.Ease. For Entrances & Parking Lots
- 2 Denotes Prop.Perm.Drain. Ease.

Design Associates, P.C.
Civil Engineering - Surveying - Land Planning
Professional Engineers - Professional Surveyors
Professional Land Surveyors - Professional Engineers
Professional Geographers - Professional Engineers
Professional Environmental Engineers - Professional Engineers
Professional Environmental Scientists - Professional Engineers
Professional Environmental Planners - Professional Engineers
Professional Environmental Scientists - Professional Engineers
Professional Environmental Planners - Professional Engineers

LANE

NOVA DISTRICT DESIGN UNIT

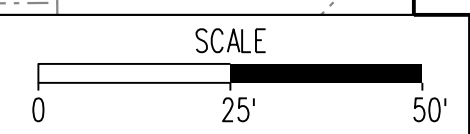
Match Line, Sta. 115+00 (Balls Ford Rd.) - See Sheet 4

Match Line, BMP 1-1 - See Sheet 4(2)

Match Line, Sta. 122+25 (Balls Ford Rd.) - See Sheet 6

REFERENCES (PROFILES, DETAIL & DRAINAGE DESCRIPTION SHEETS, ETC.)

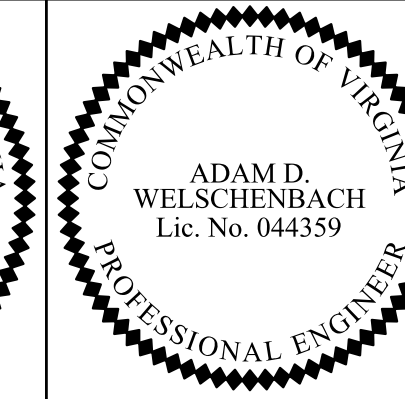
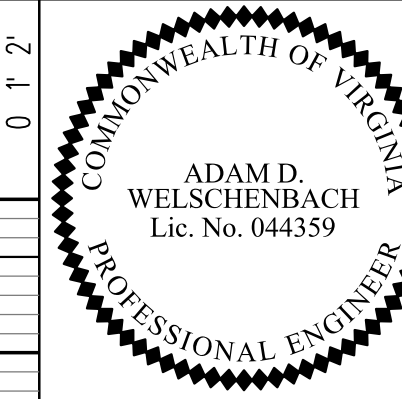
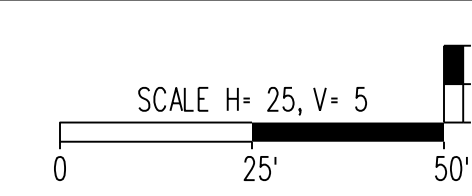
Property Owner Information	IC11, IC12
Demolition Summary	IE - IE12
Survey Control Data Sheet	IF - IF12
Geometric Data	IG(5)
Erosion Control Phase 1	IS Series
Erosion Control Phase 2	IT Series
Typical Sections	2A - 2A(5)
Roundabout Typical Sections	2A(24) - 2A(25)
Profile Route 621	5A
Grading Plan	5G



VDOT PROJECT 6234-076-266 PAC PROJECT SPR2020-00383 S03	SHEET NO. 5
--	----------------

PROJECT MANAGER PWC DOT: Mary Ankers (703) 792-4228
SURVEYED BY, DATE Rinker Design Associates, P.C. (703) 368-7373, April 2020
DESIGN BY Rinker Design Associates, Mark Gunn, PE (703) 368-7373
SUBSURFACE UTILITY BY, DATE Accurmark (703) 635-3060, July 2019

04 Revised entrance profiles for extended project limits/realignment.



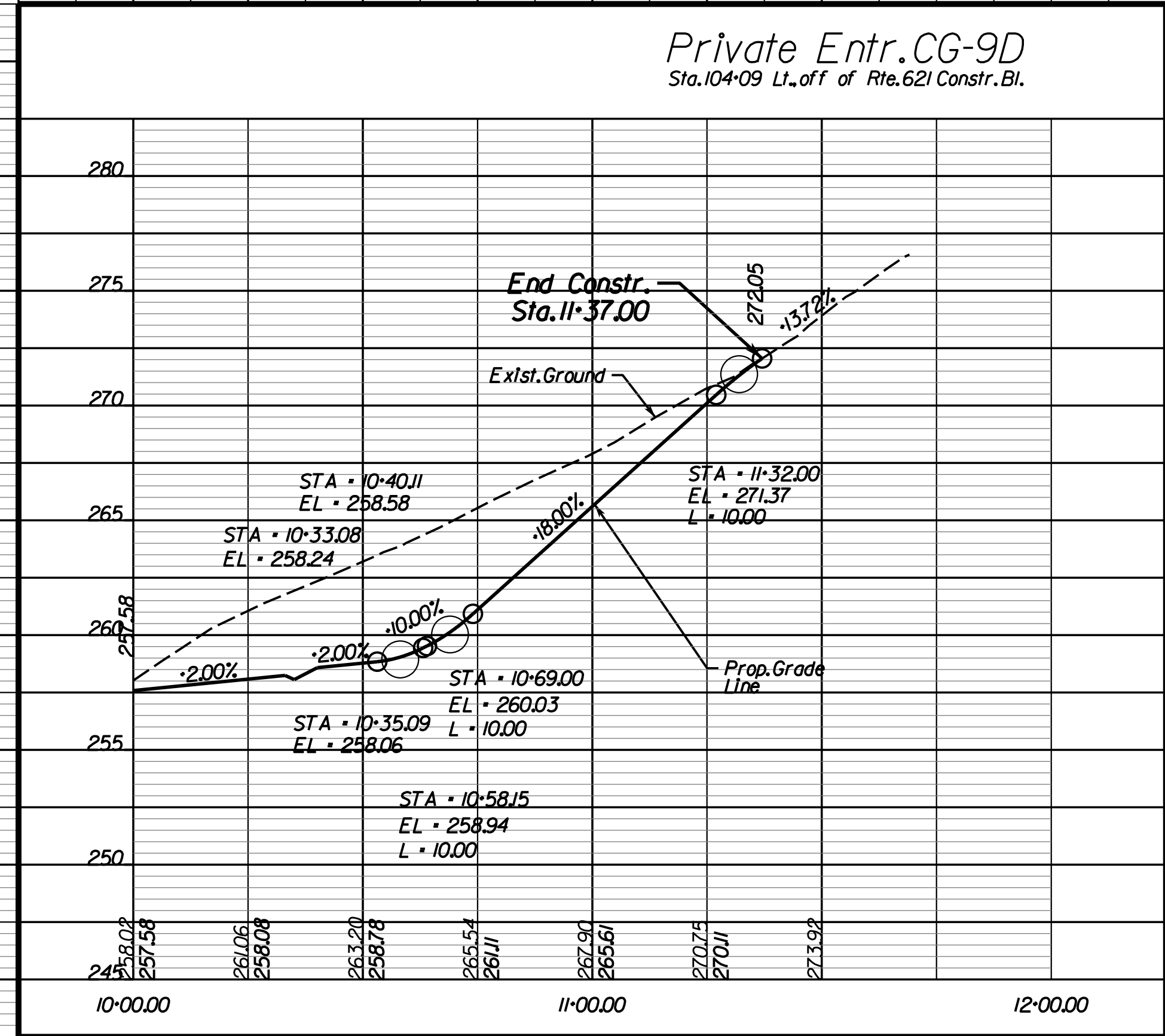
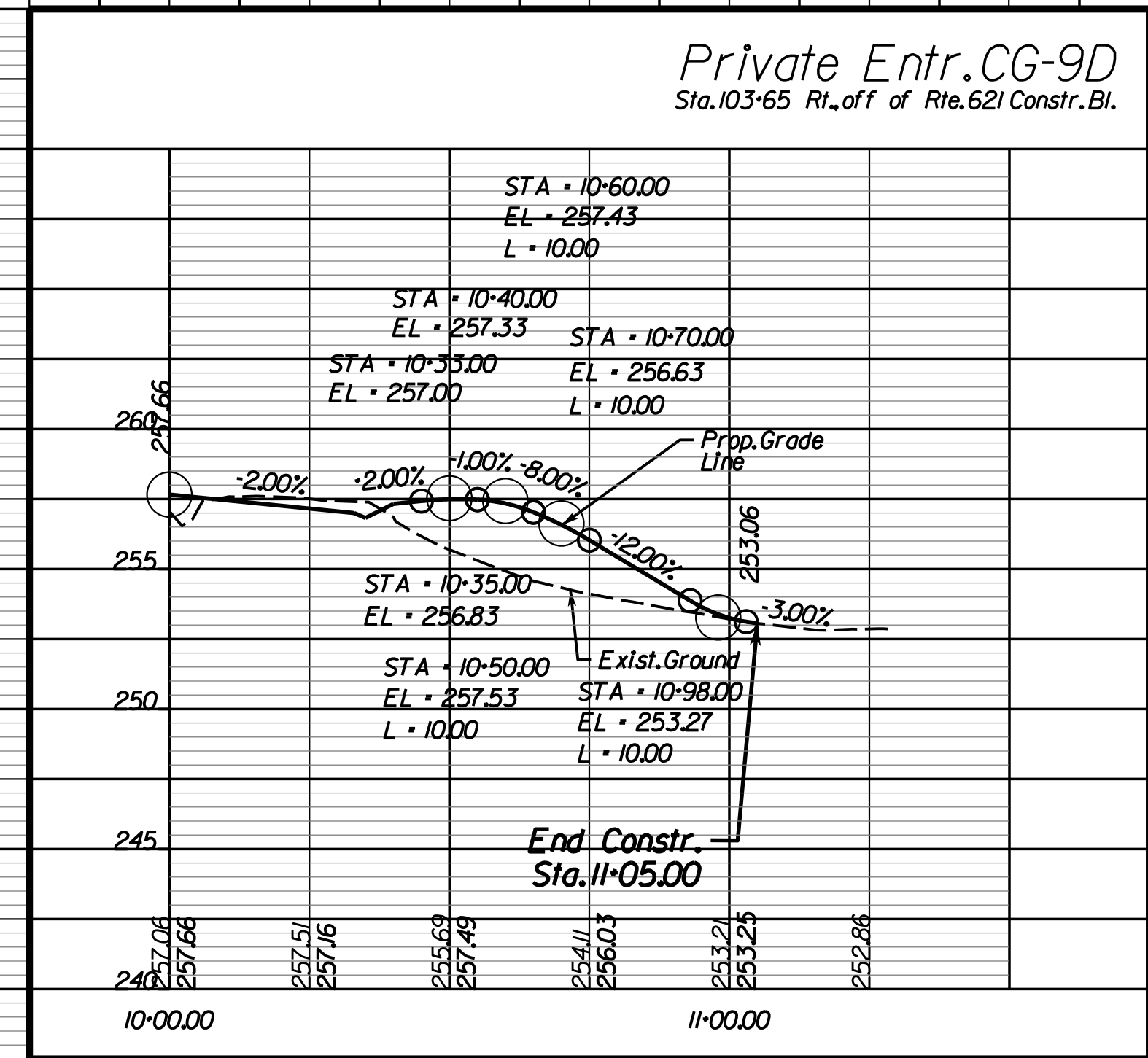
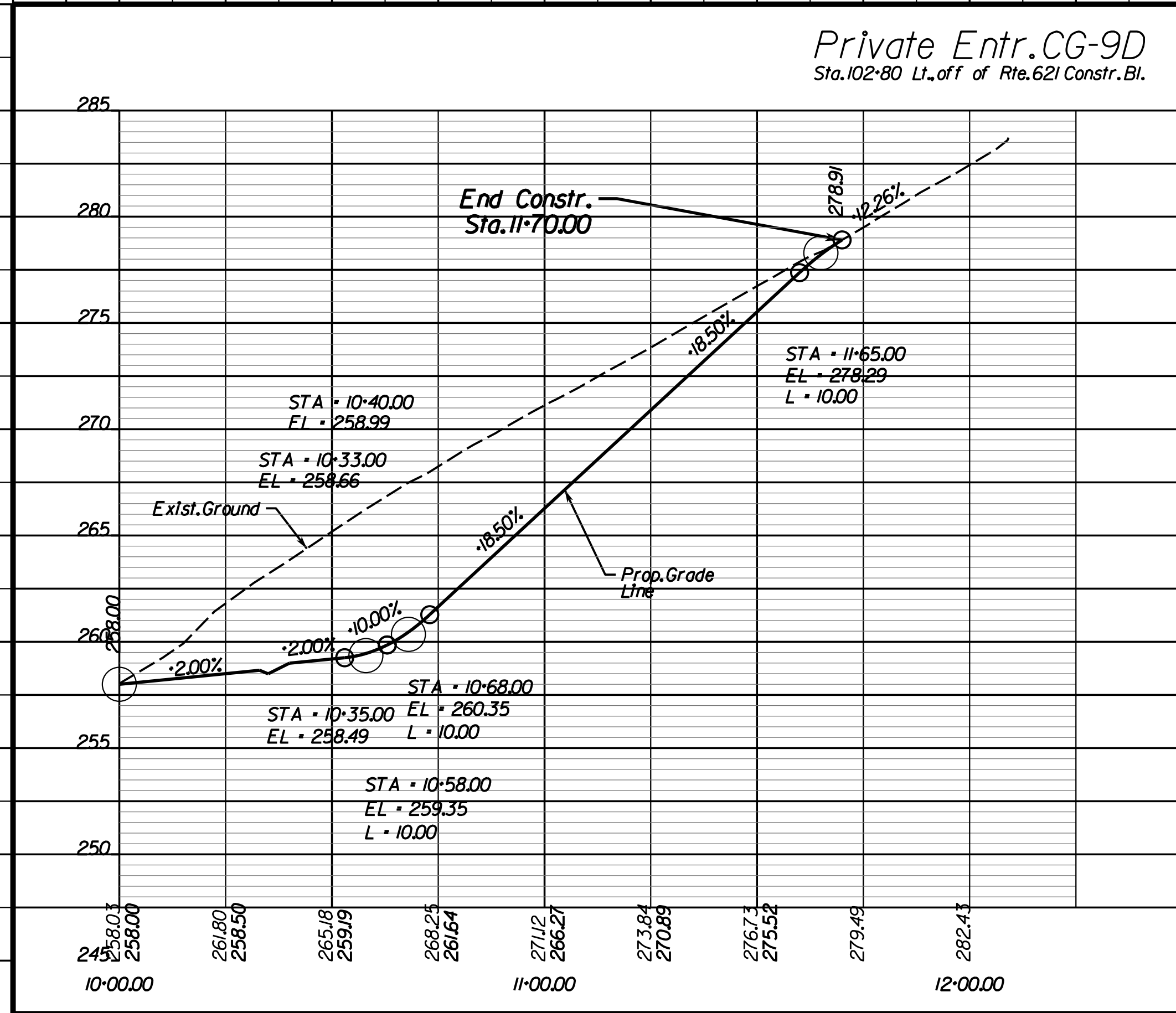
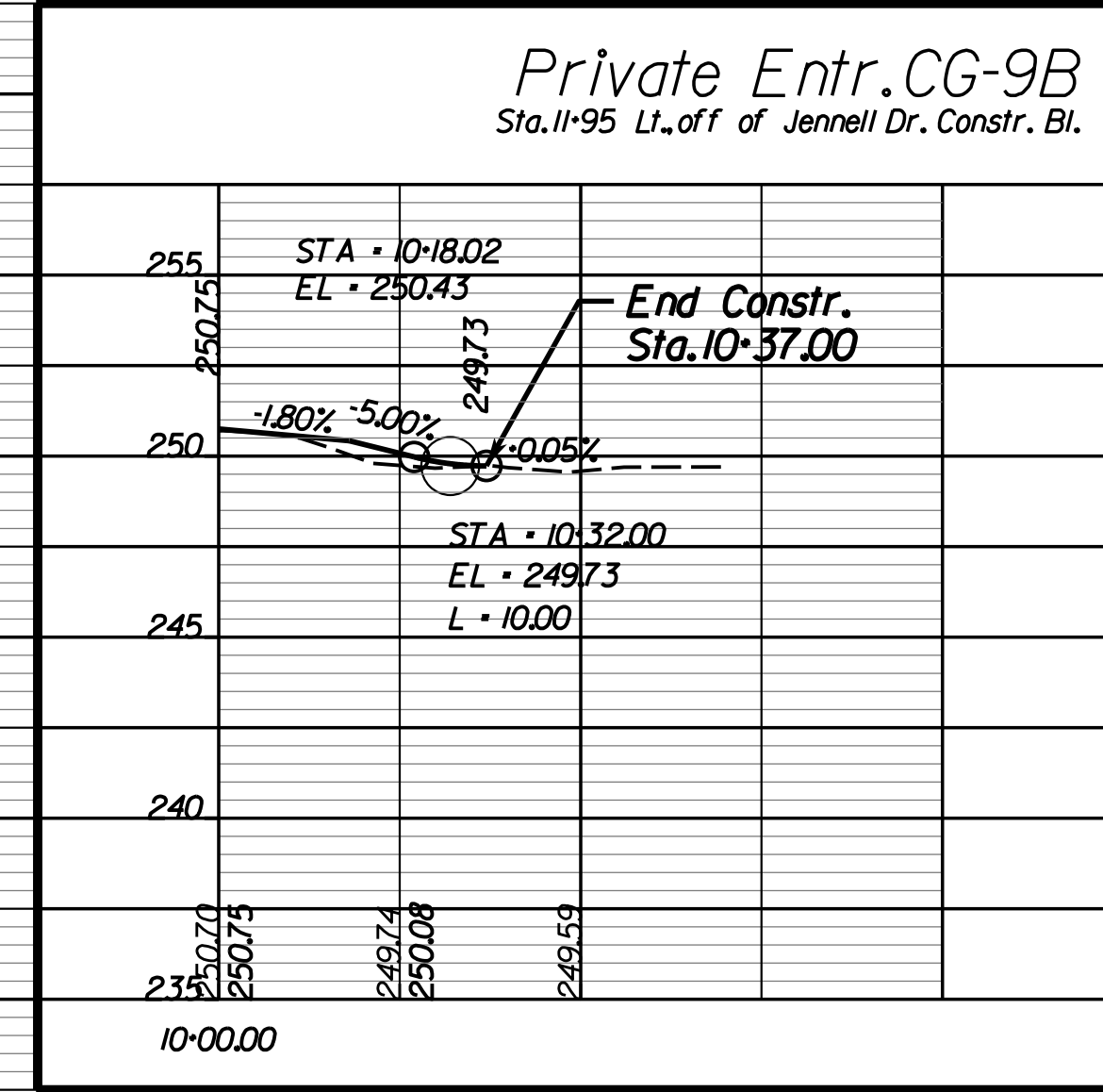
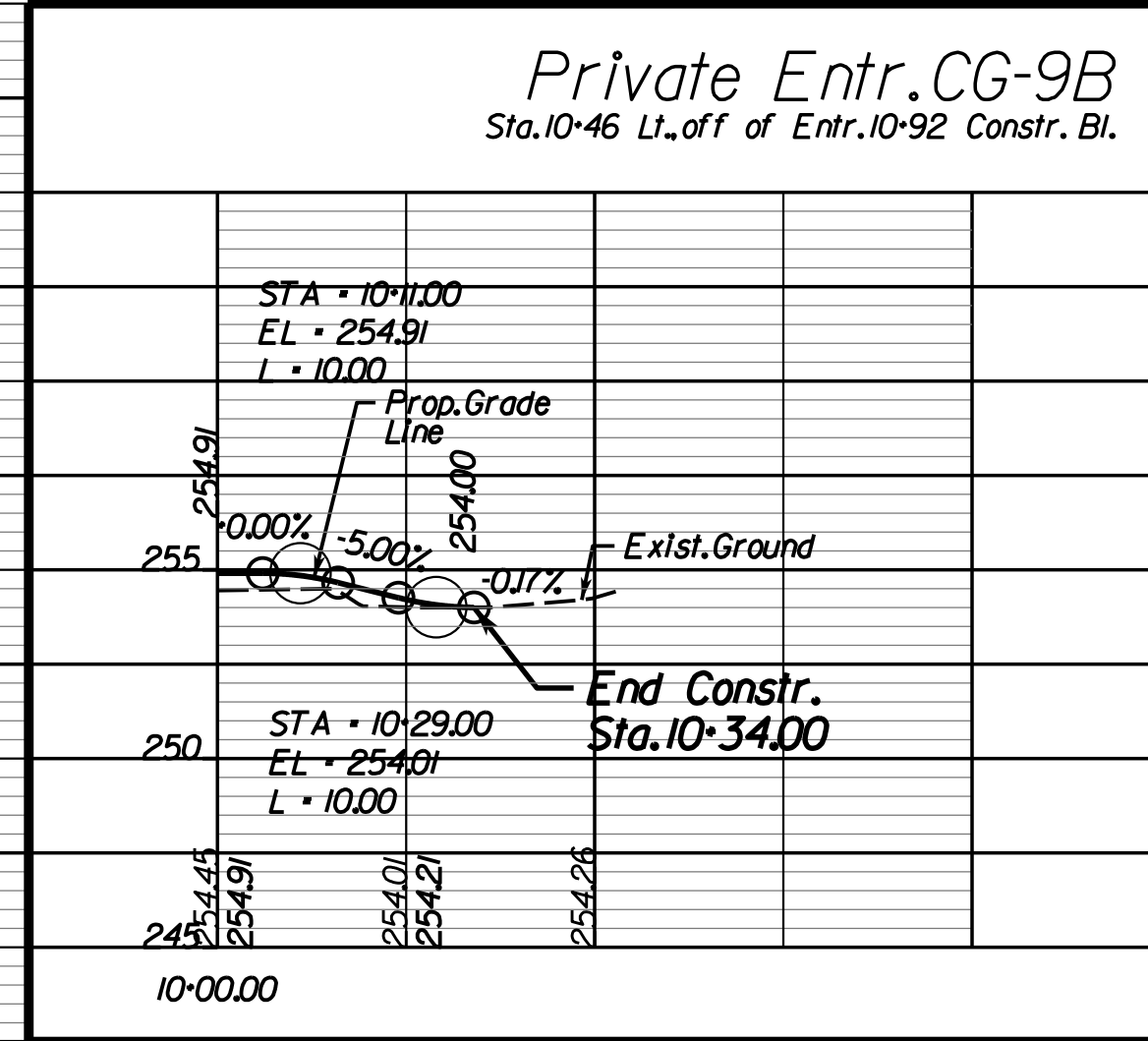
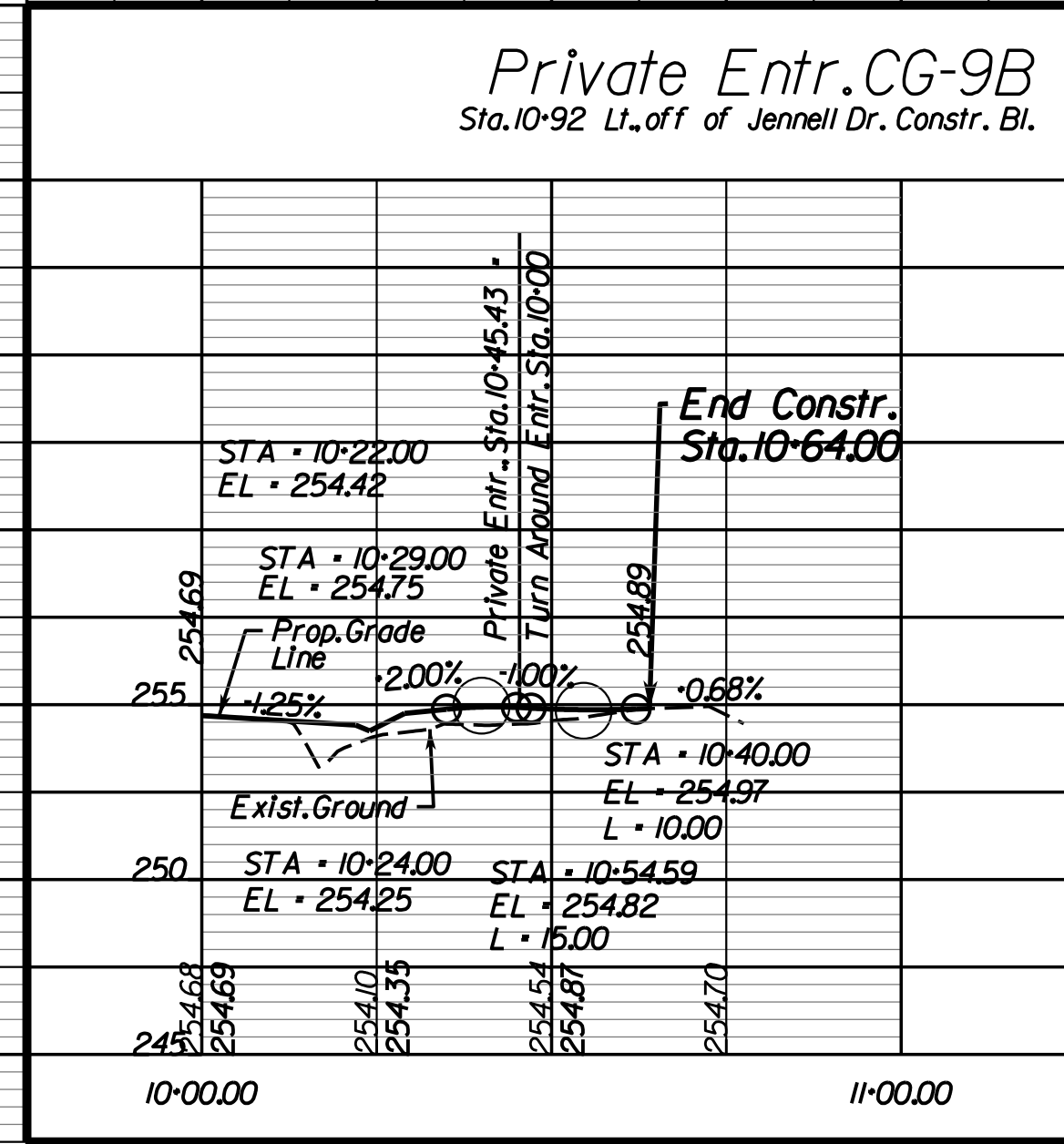
REVISED NDC04	STATE VA.	ROUTE 621	STATE PROJECT 6234-076-266, C-501, RW-201	SHEET NO. 25(13A)
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DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT

Rinker Design Associates, P.C.
Manassas, Virginia
HYDRAULICS ENGINEER

Rinker Design Associates, P.C.
Manassas, Virginia
ROADWAY ENGINEER

Profile Sheet Entrances



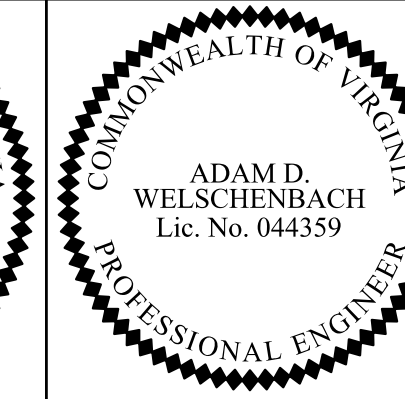
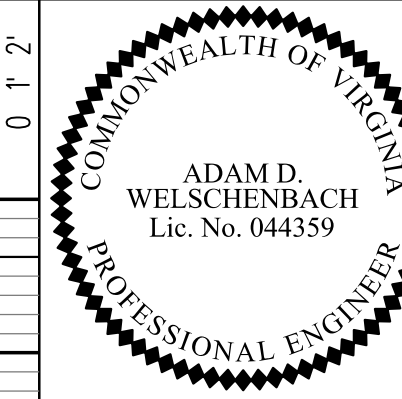
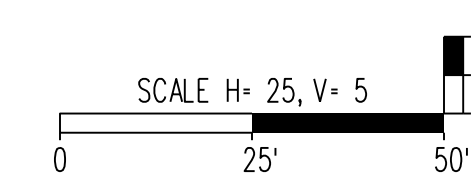
Office Locations
Rinker Design Associates, P.C.
Civil Engineering - Surveying - Land Planning
Transportation - Right of Way Services



NOVA DISTRICT DESIGN UNIT

PROJECT MANAGER PWC DOT: Mary Ankers (703) 792-4228
SURVEYED BY, DATE Rinker Design Associates, P.C. (703) 368-7373, April 11 2020
DESIGN BY Rinker Design Associates, Mark Gunn, PE (703) 368-7373
SUBSURFACE UTILITY BY, DATE AccuMark (703) 635-3060, July 2019

04 Revised entrance profiles for extended project limits/realignment.



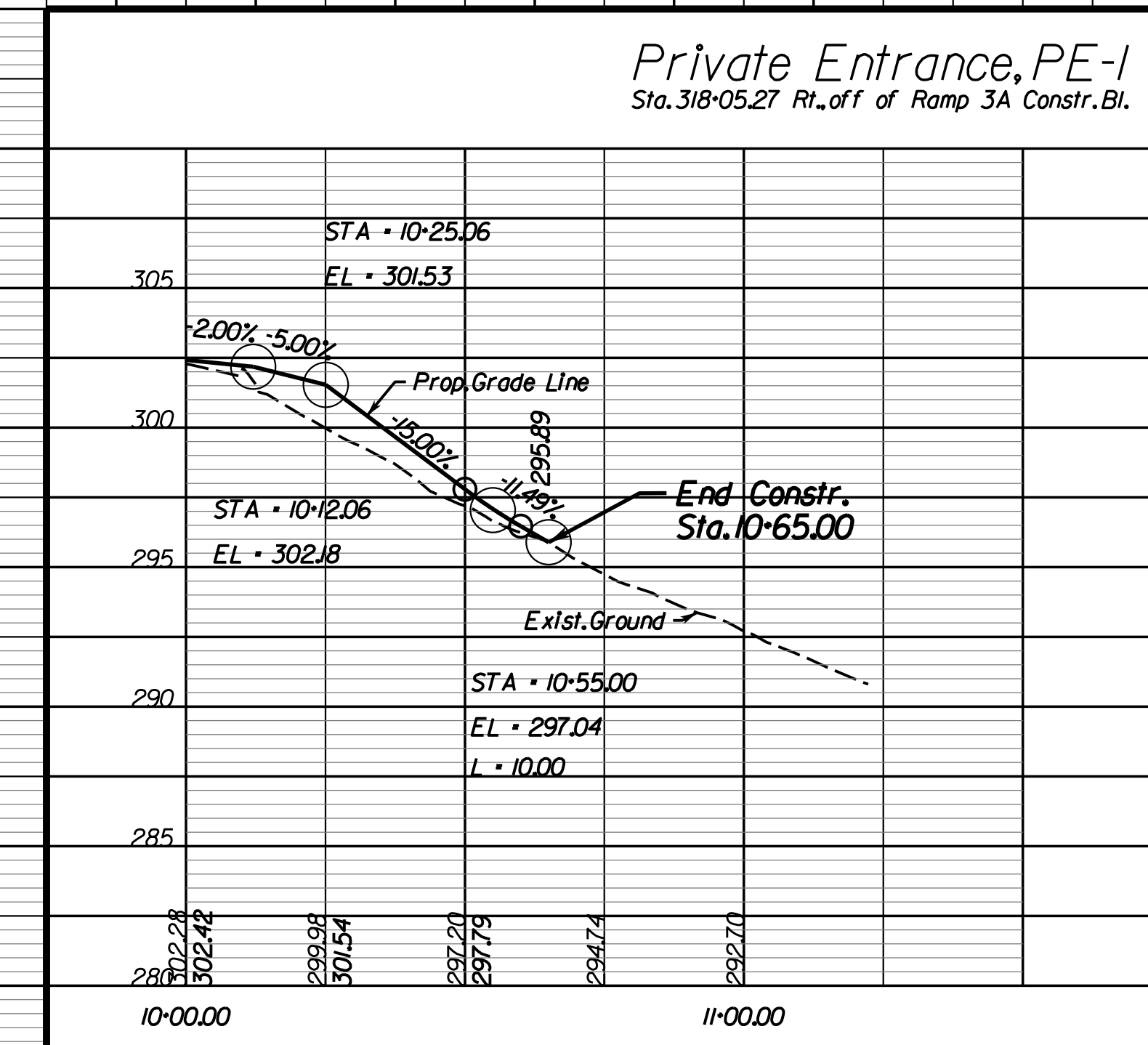
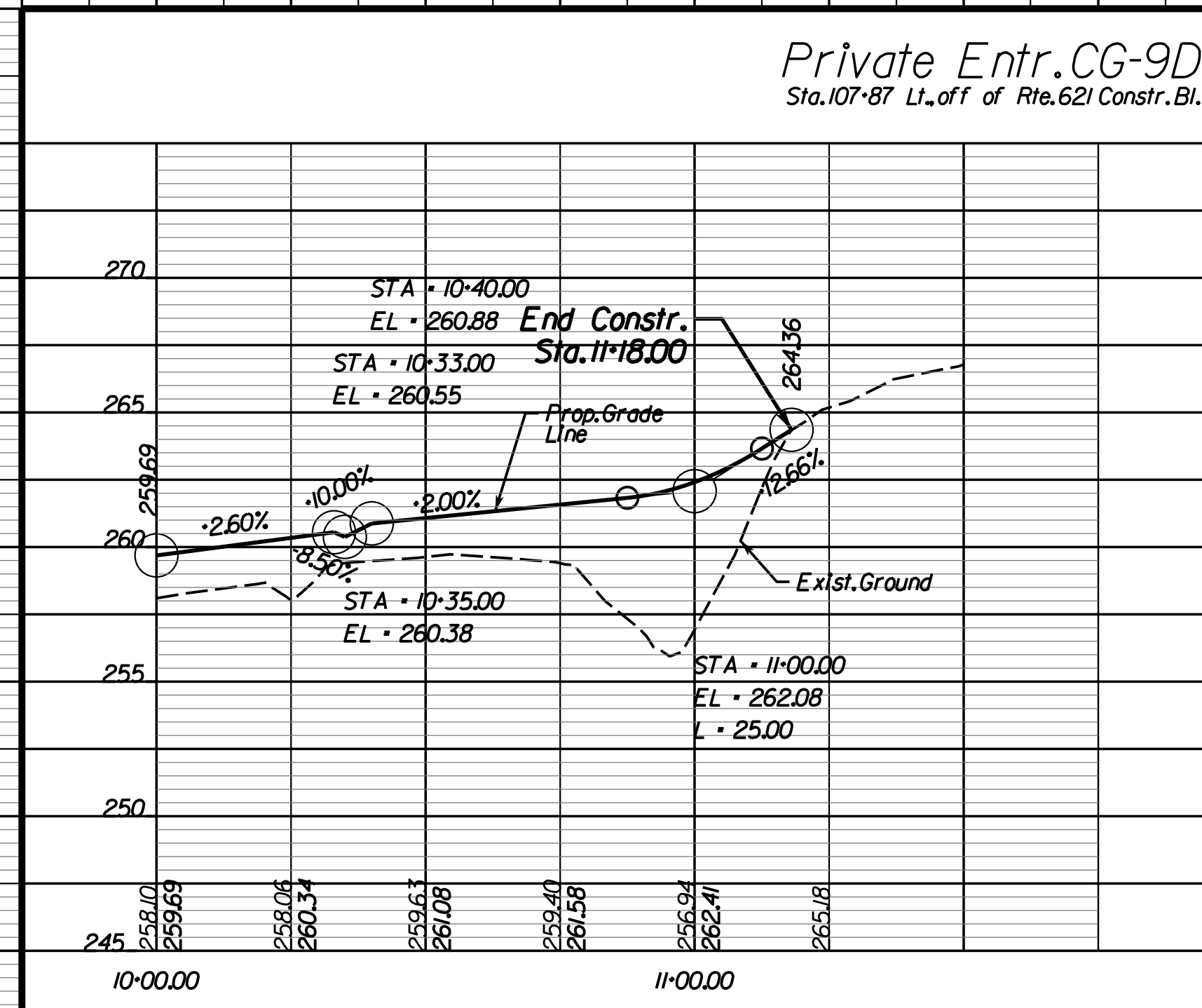
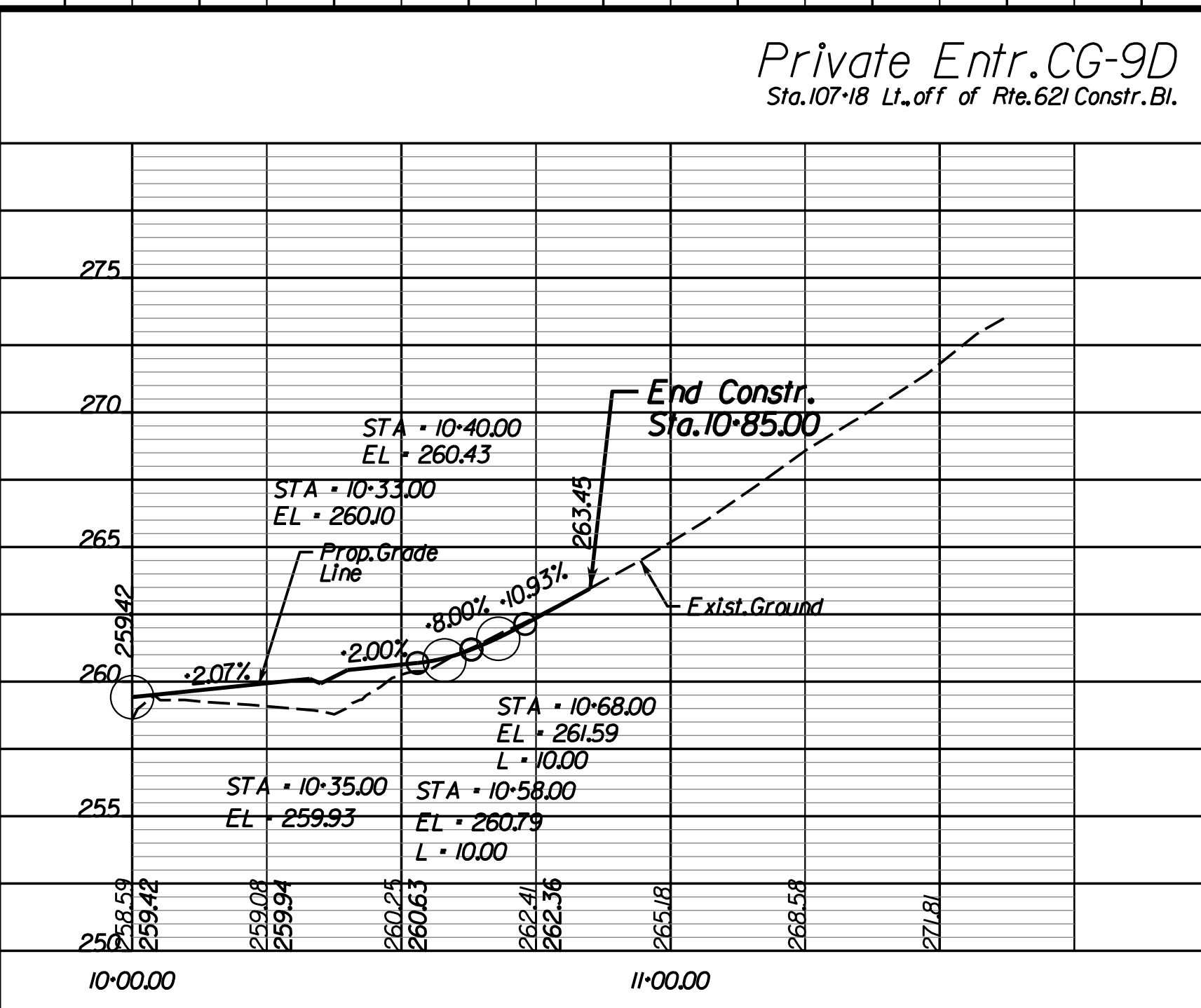
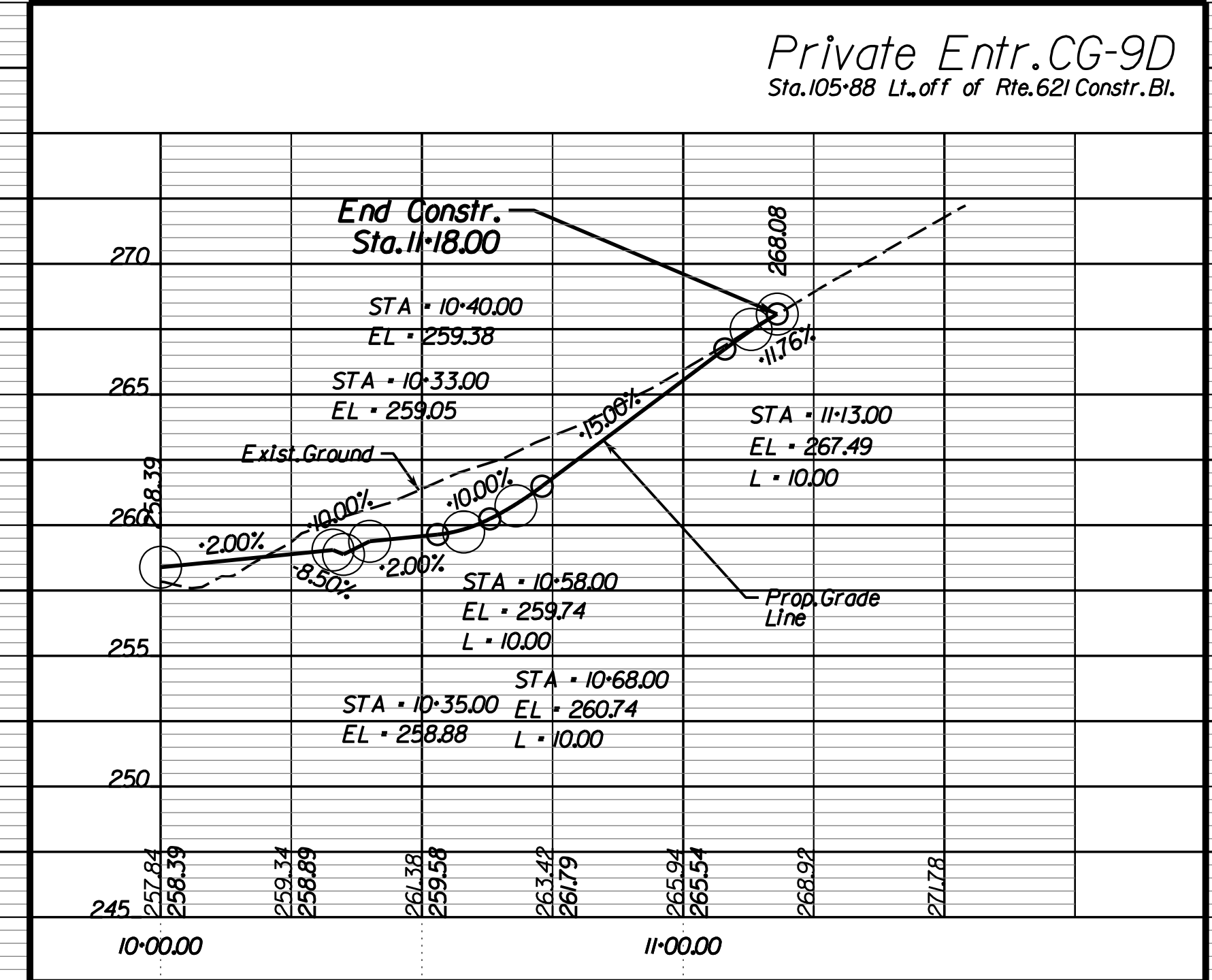
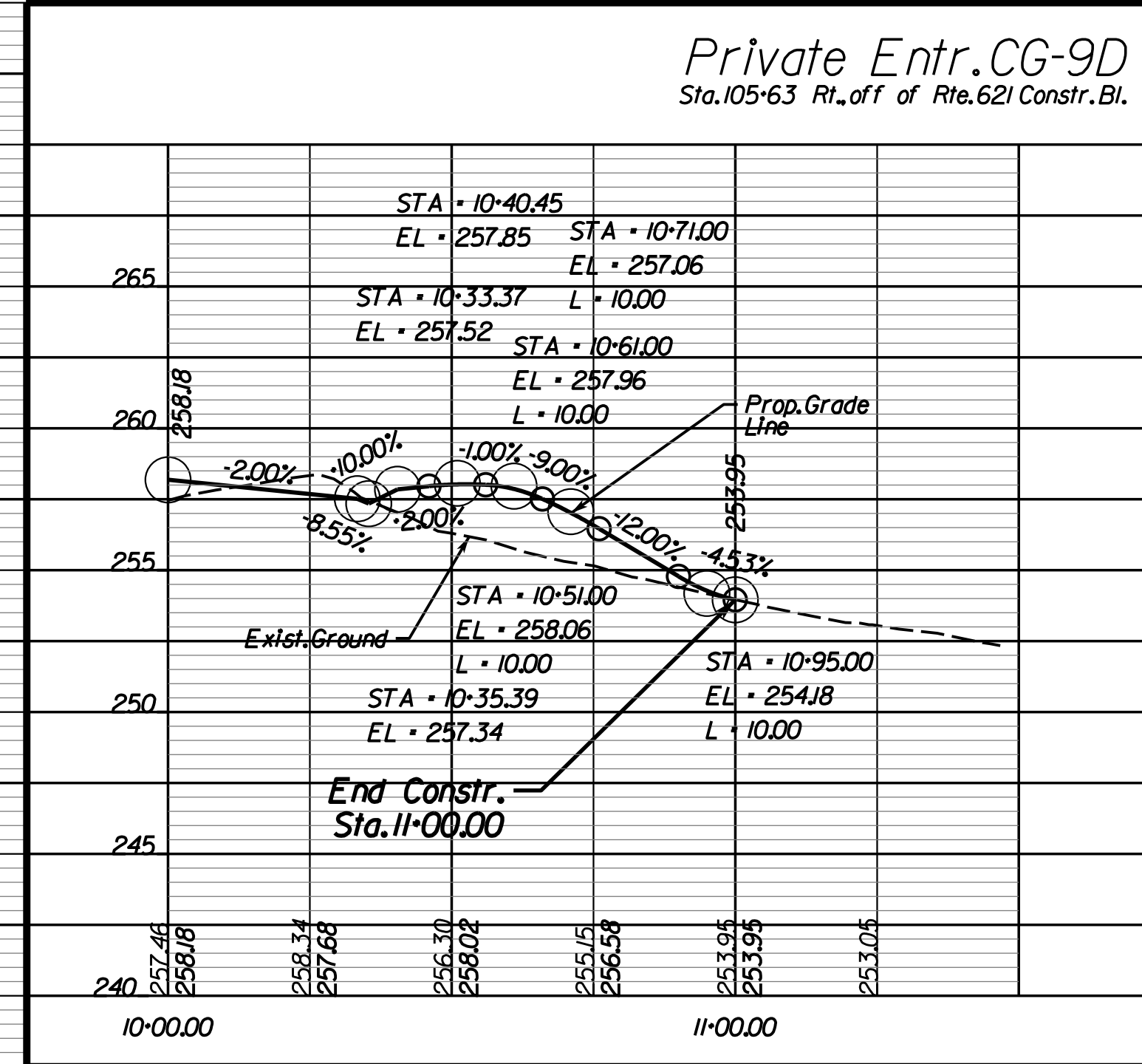
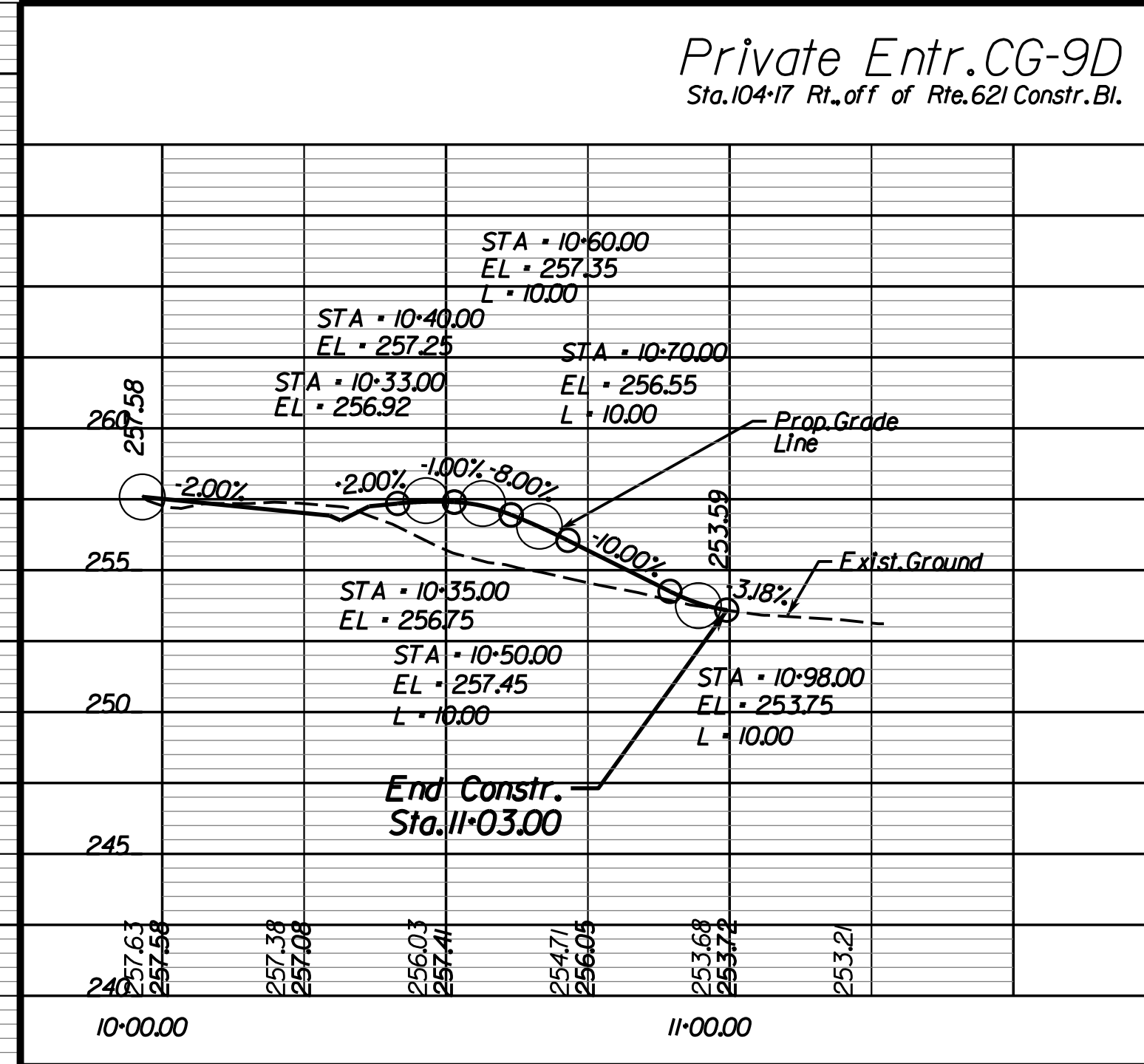
Rinker Design Associates, P.C.
Manassas, Virginia
HYDRAULICS ENGINEER

Rinker Design Associates, P.C.
Manassas, Virginia
ROADWAY ENGINEER

STATE	ROUTE	PROJECT	SHEET NO.
VA.	621	6234-076-266, C-501, RW-201	25(13B)

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

Profile Sheet Entrances



Office Locations
Rinker Design Associates, P.C.
10000 Old Dominion Blvd., Suite 200
Manassas, VA 20108
703.368.7373
www.rinker.com

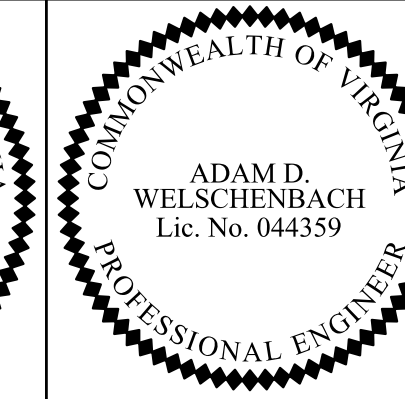
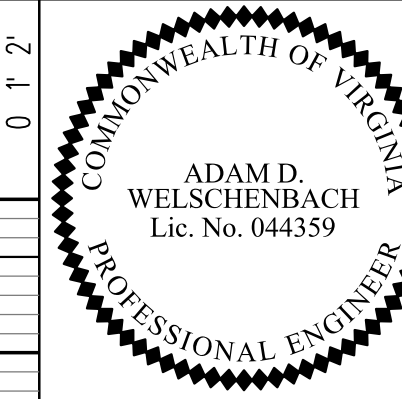
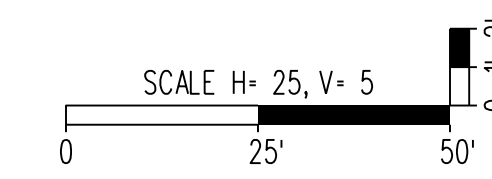
Design Associates, P.C.
Civil Engineering - Surveying - Land Planning
Transportation - Right of Way Services



NOVA DISTRICT DESIGN UNIT

PROJECT MANAGER PWC_DOT: Mary Ankers (703) 792-4228
SURVEYED BY, DATE Rinker Design Associates, P.C. (703) 368-7373, April 2020
DESIGN BY Rinker Design Associates, Mark Gunn, PE (703) 368-7373
SUBSURFACE UTILITY BY, DATE AccuMark (703) 635-3060, July 2019

04 Revised entrance profiles for extended project limits/realignment.



Rinker Design Associates, P.C.
Manassas, Virginia
HYDRAULICS ENGINEER

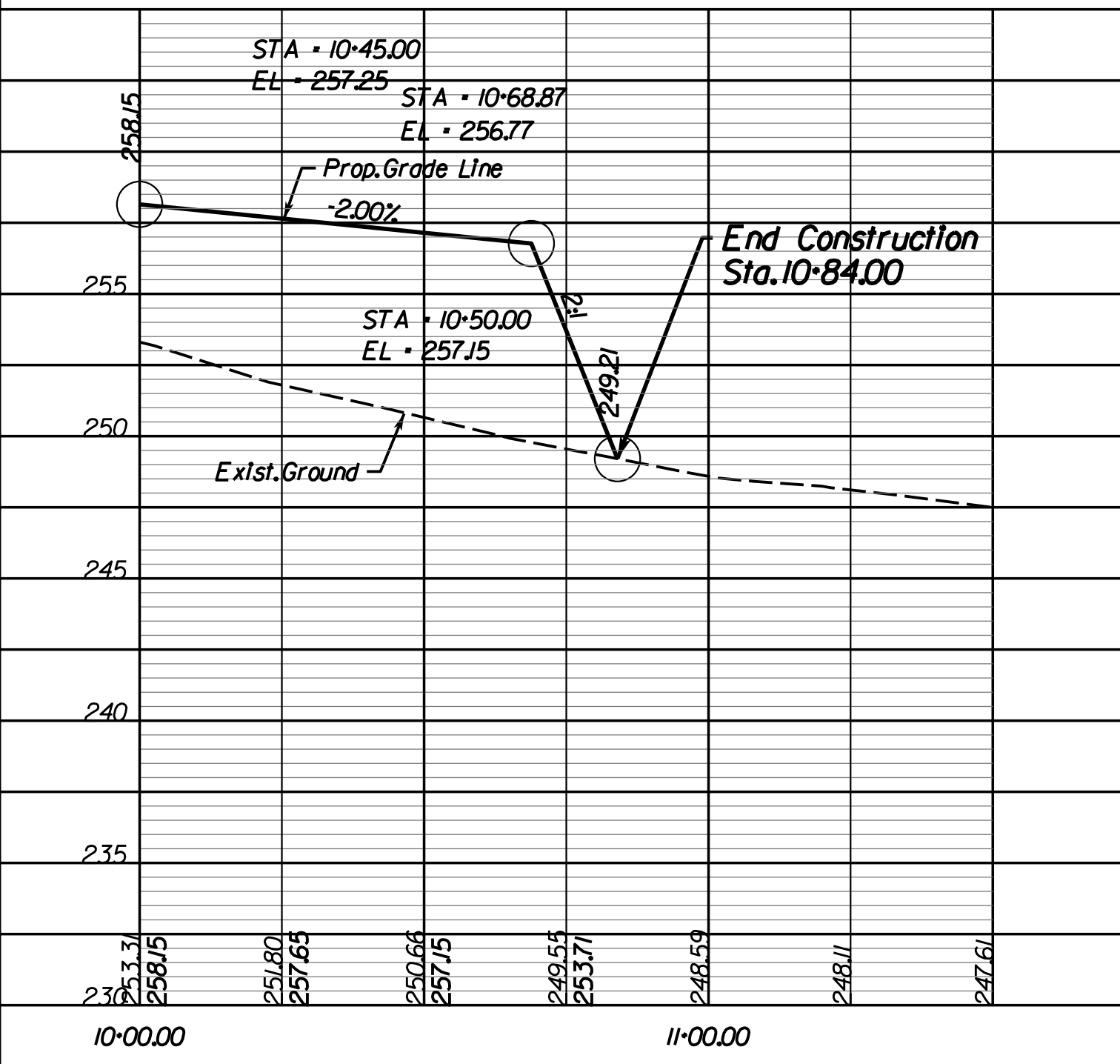
Rinker Design Associates, P.C.
Manassas, Virginia
ROADWAY ENGINEER

REVISION	STATE	ROUTE	PROJECT	SHEET NO.
NDC04	VA.	621	6234-076-266, C-501, RW-201	251(3C)

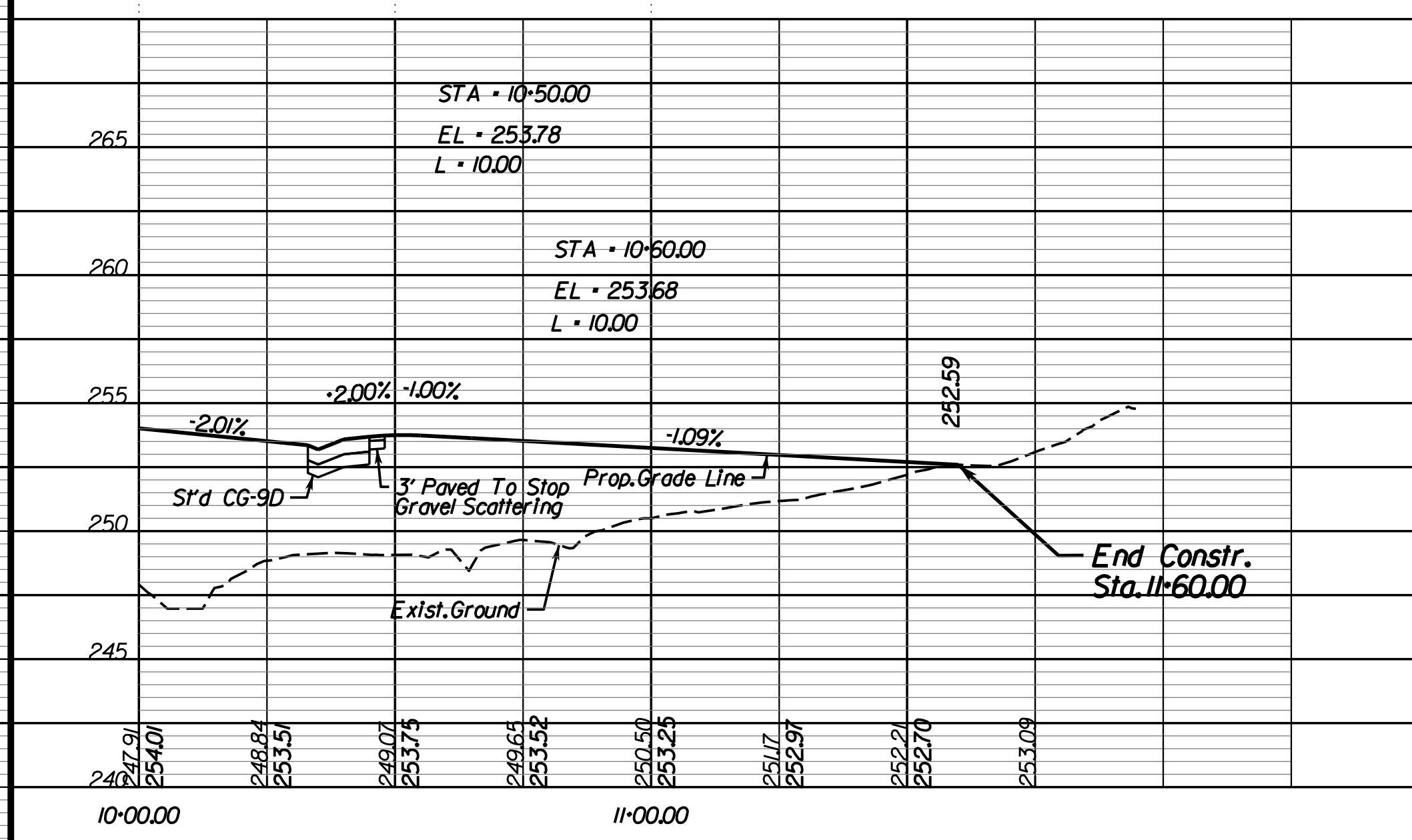
DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT

Profile Sheet Entrances

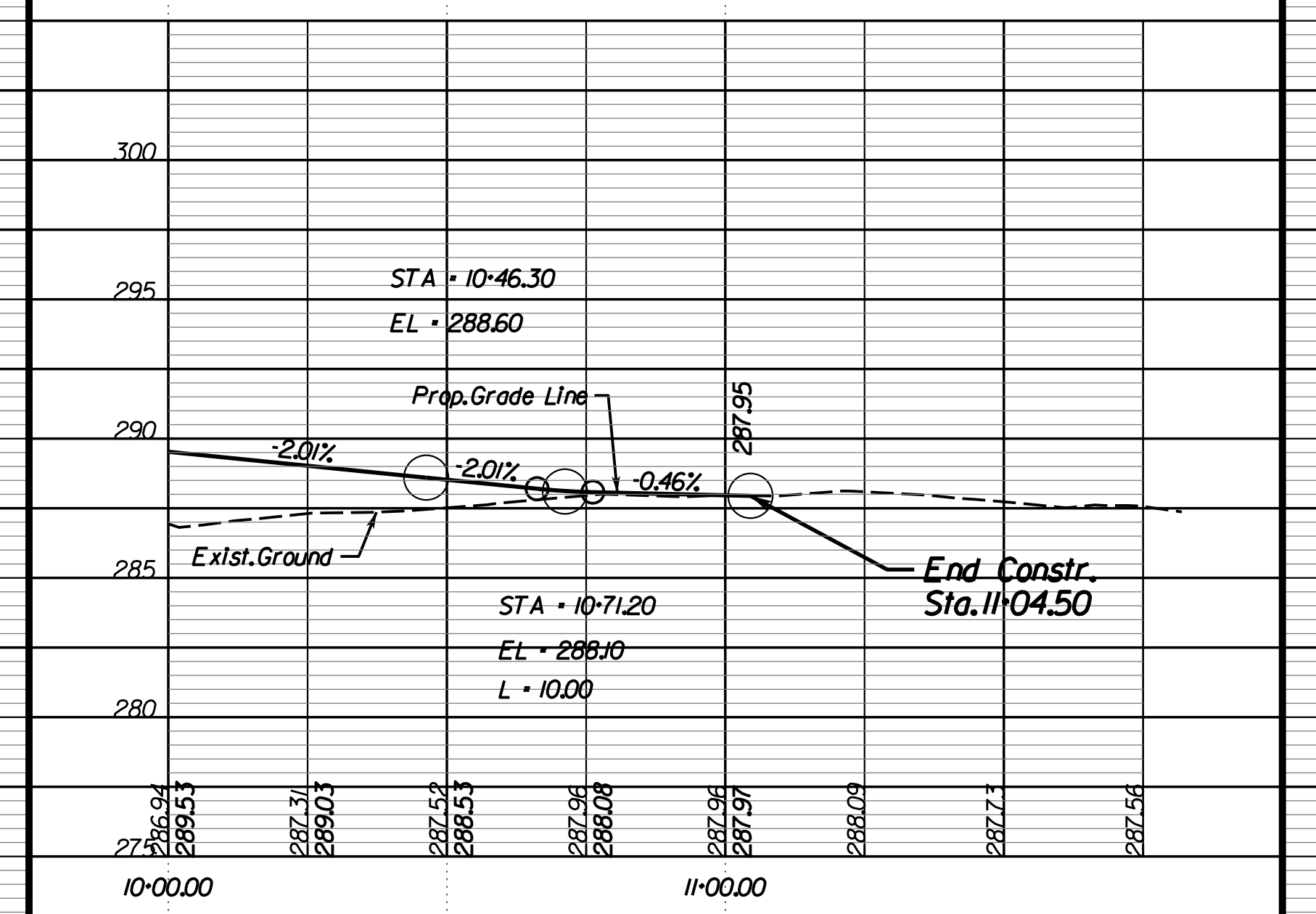
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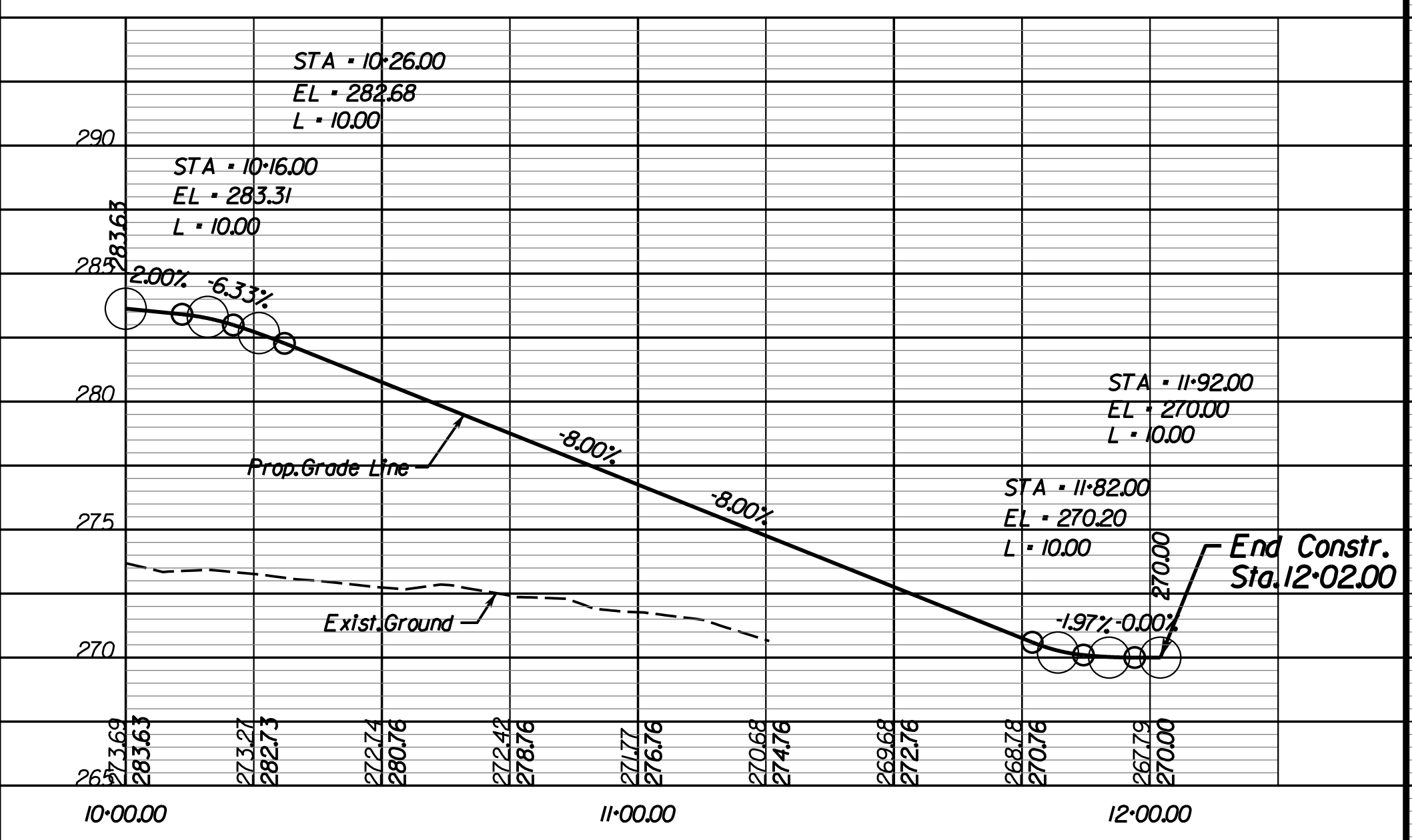
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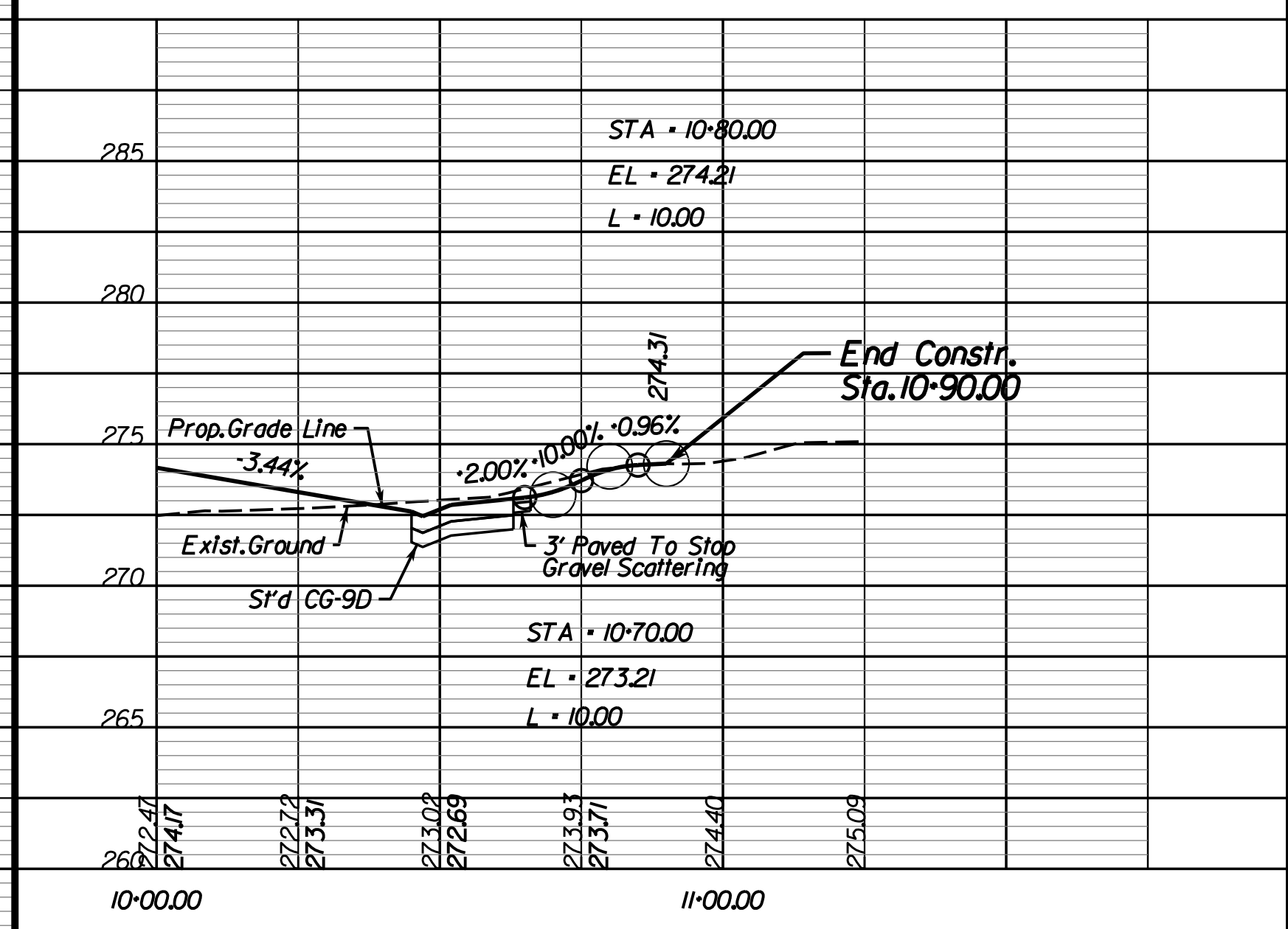
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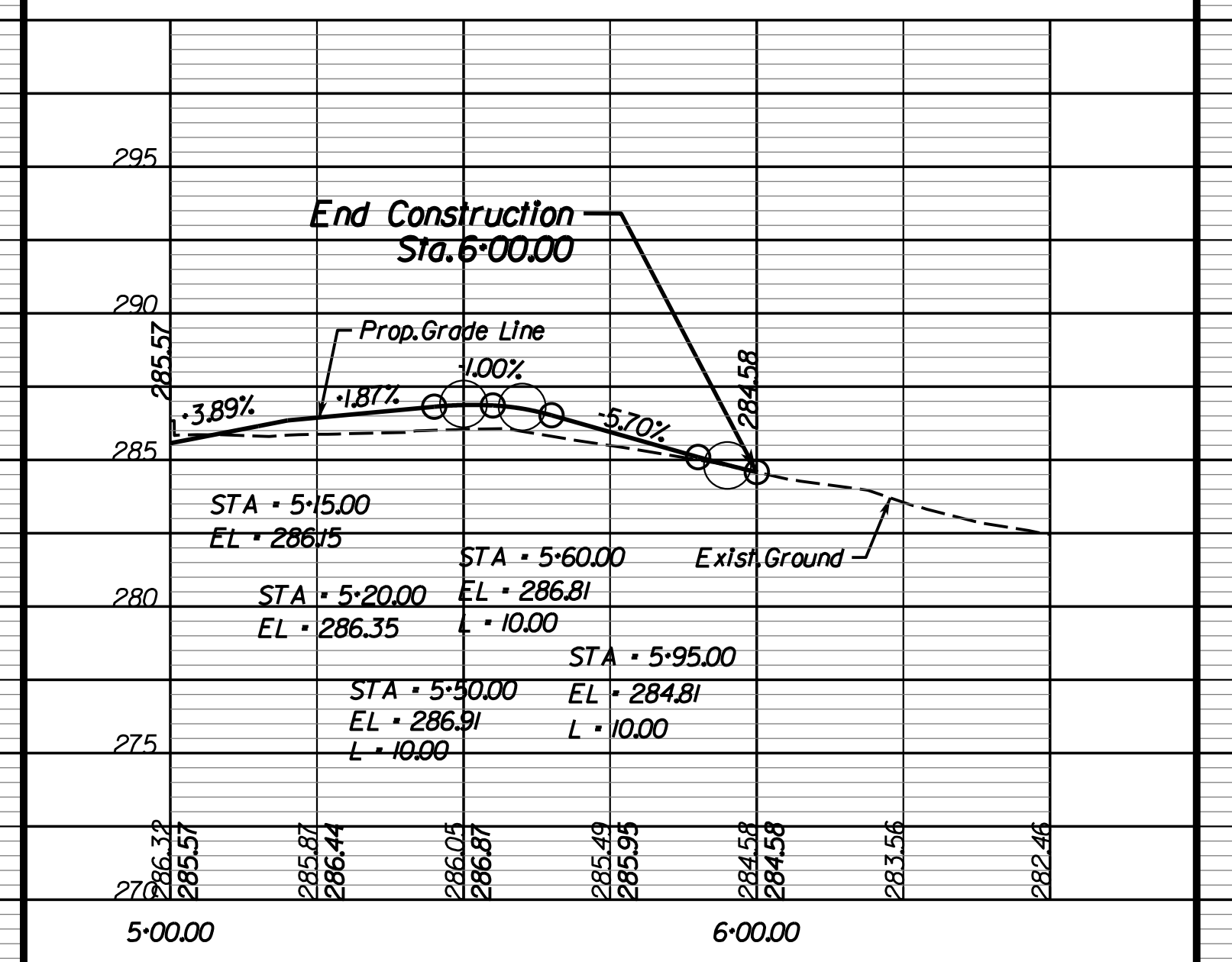
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Commercial Entrance, CG-II Sta. 204+14.89 Rt. off of Brady Ln. Constr. Bl.



Office Locations
Rinker Design Associates, P.C.
10000 Old Dominion Blvd., Suite 200
Manassas, VA 20108
703.368.7373
www.rinker.com

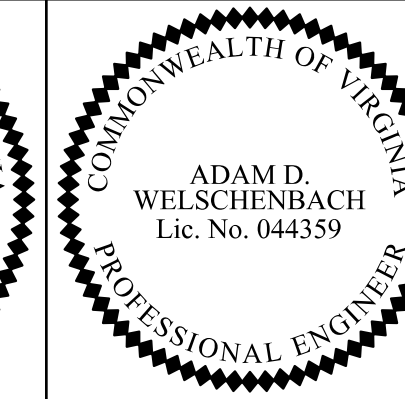
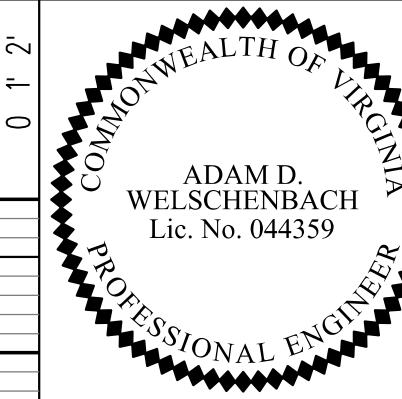
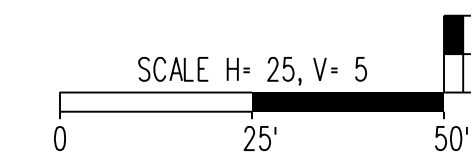


NOVA DISTRICT DESIGN UNIT

PROJECT MANAGER PWC_DOT: Mary Ankers (703) 792-4228
SURVEYED BY, DATE Rinker Design Associates, P.C. (703) 368-7373, April 11, 2020
DESIGN BY Rinker Design Associates, Mark Gunn, PE (703) 368-7373
SUBSURFACE UTILITY BY, DATE AccuMark (703) 635-3060, July 2019

02 Added sheet.

04 Revised entrance profiles for extended project limits/realignment.



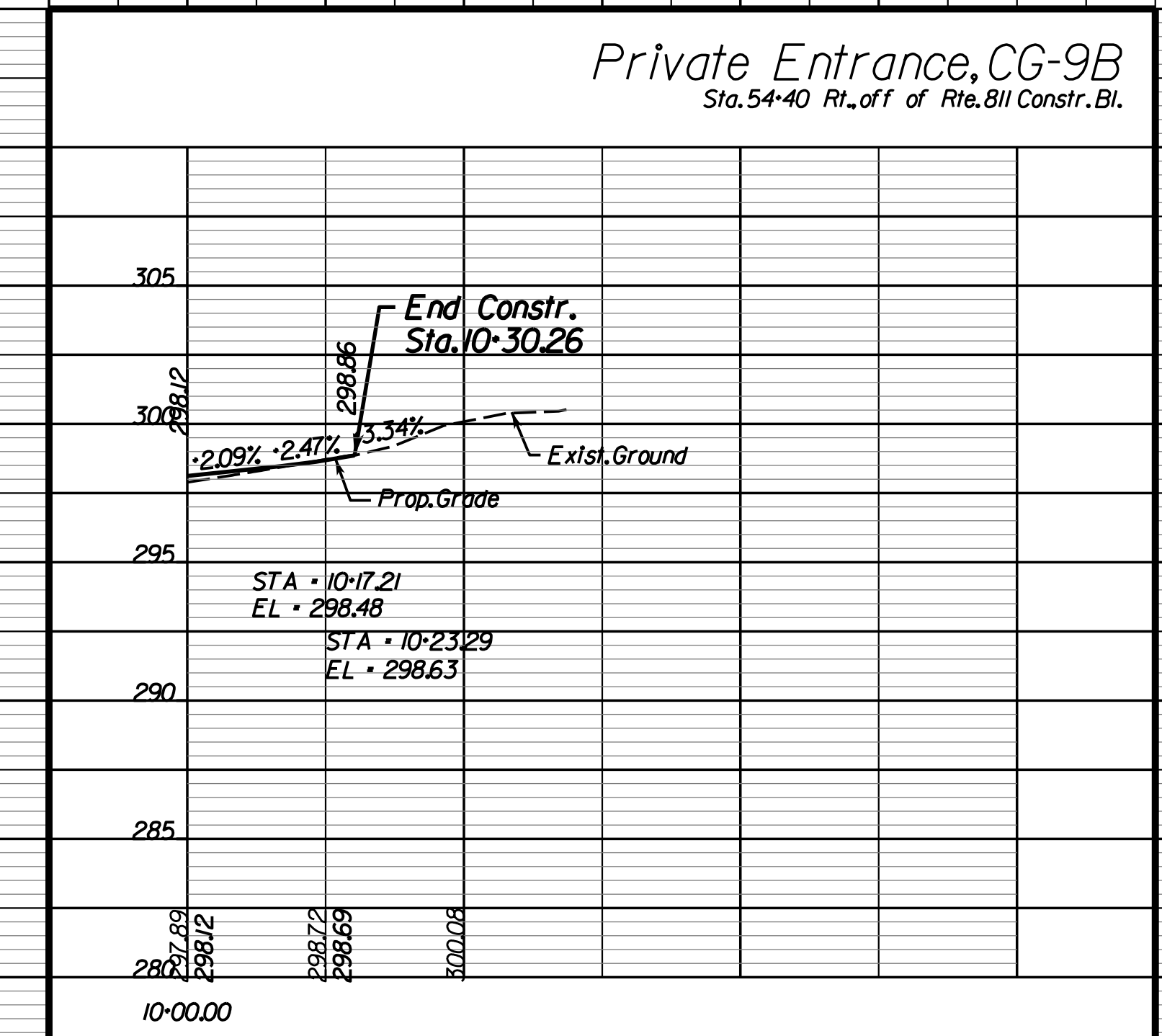
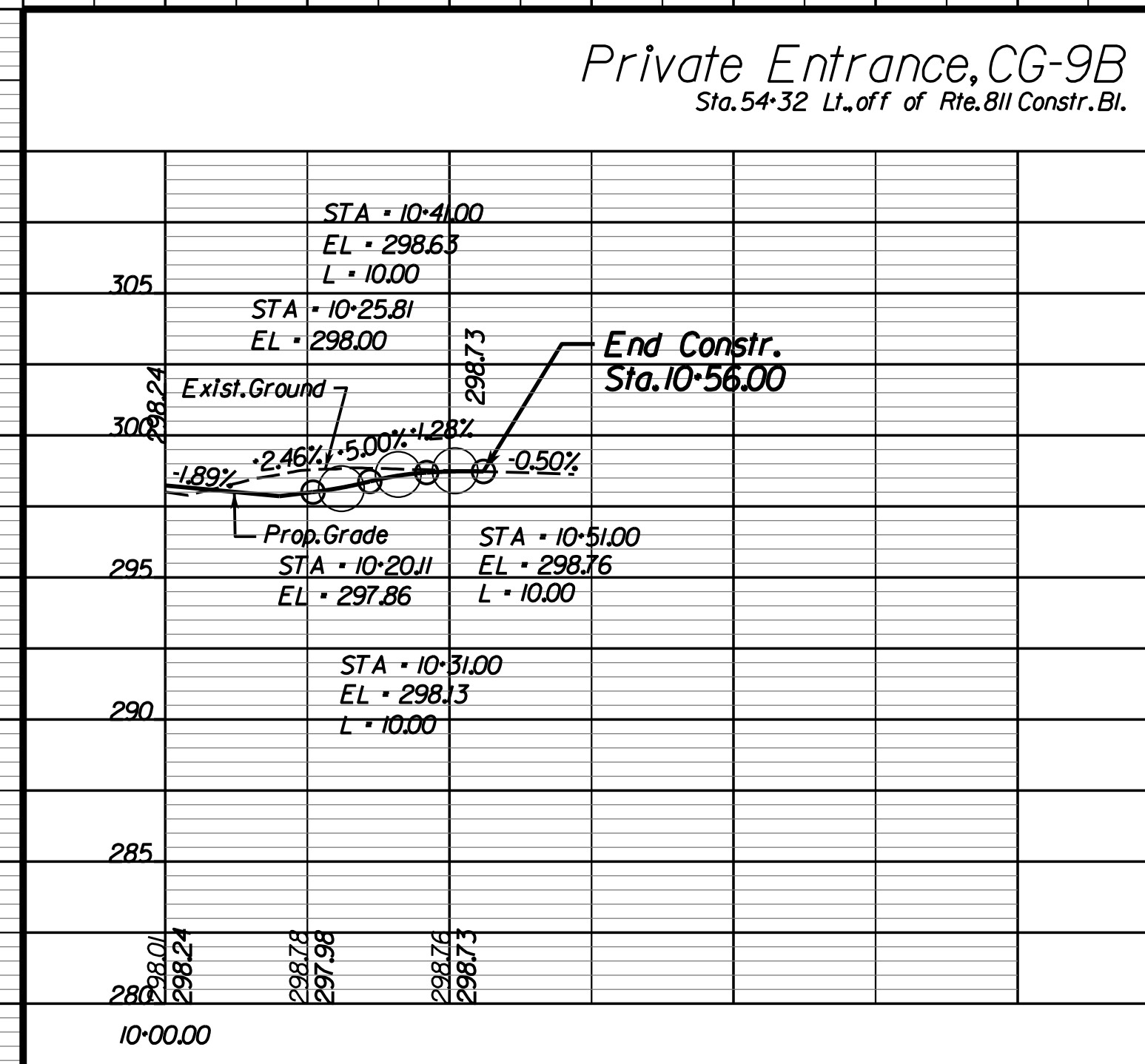
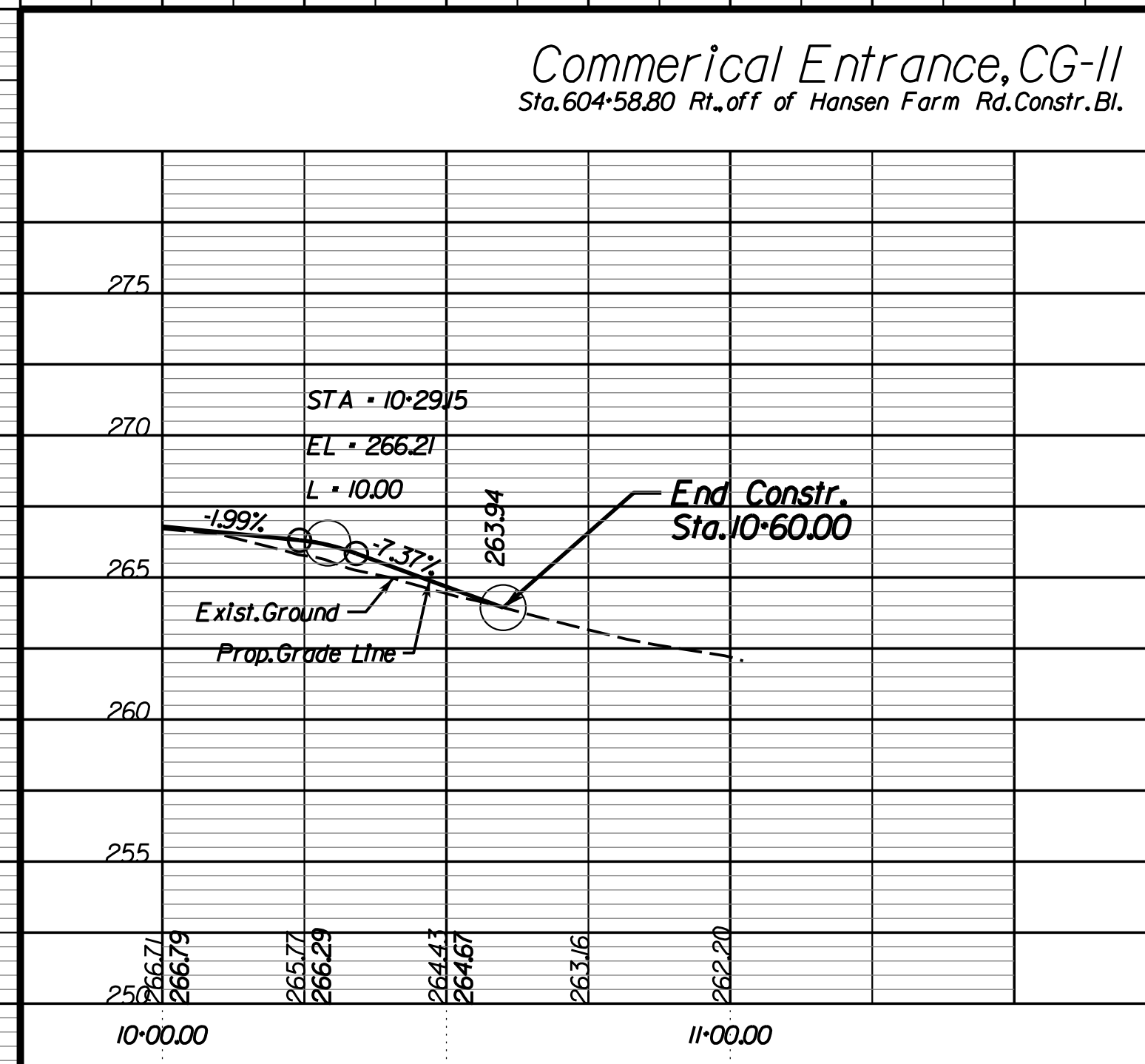
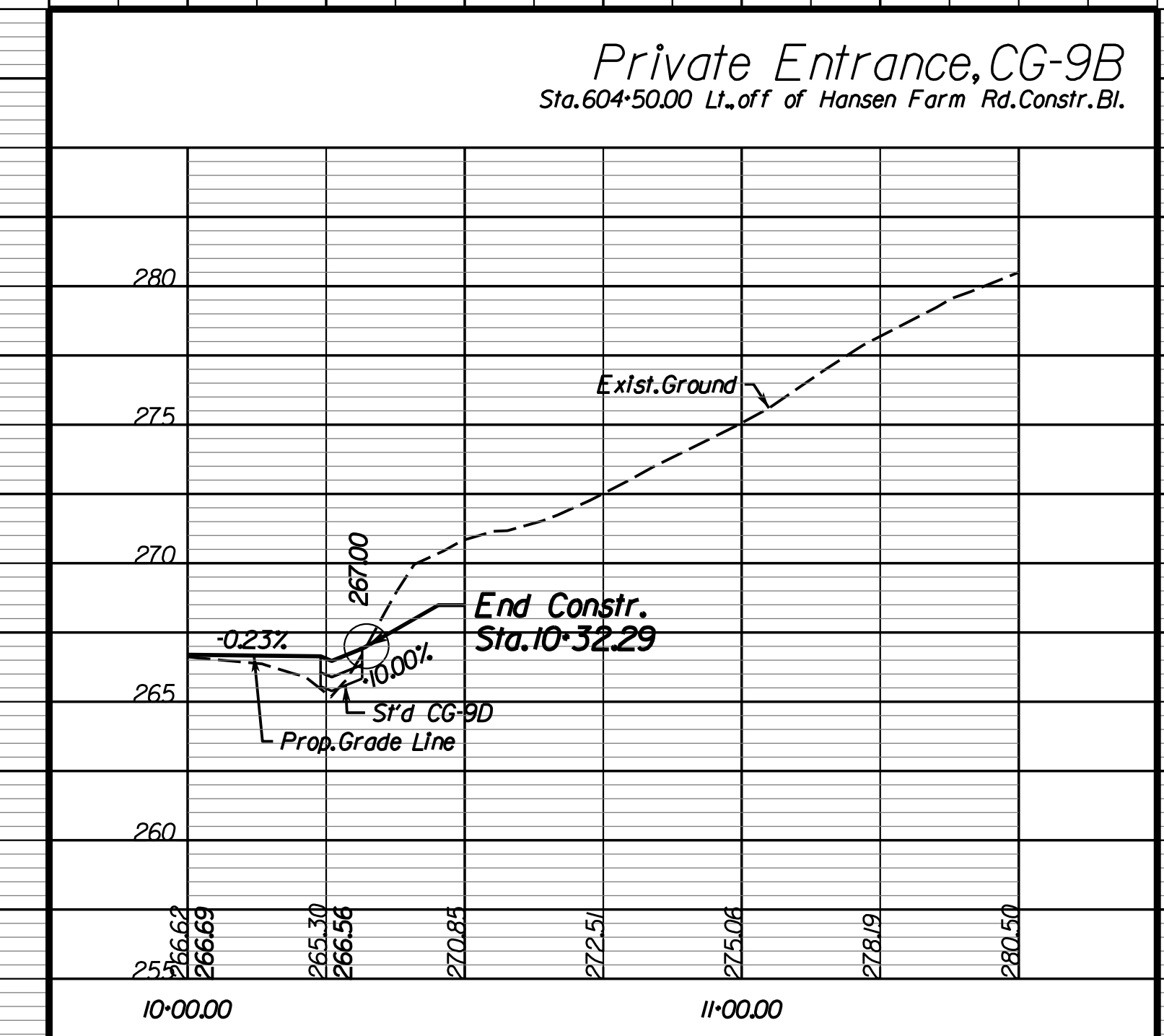
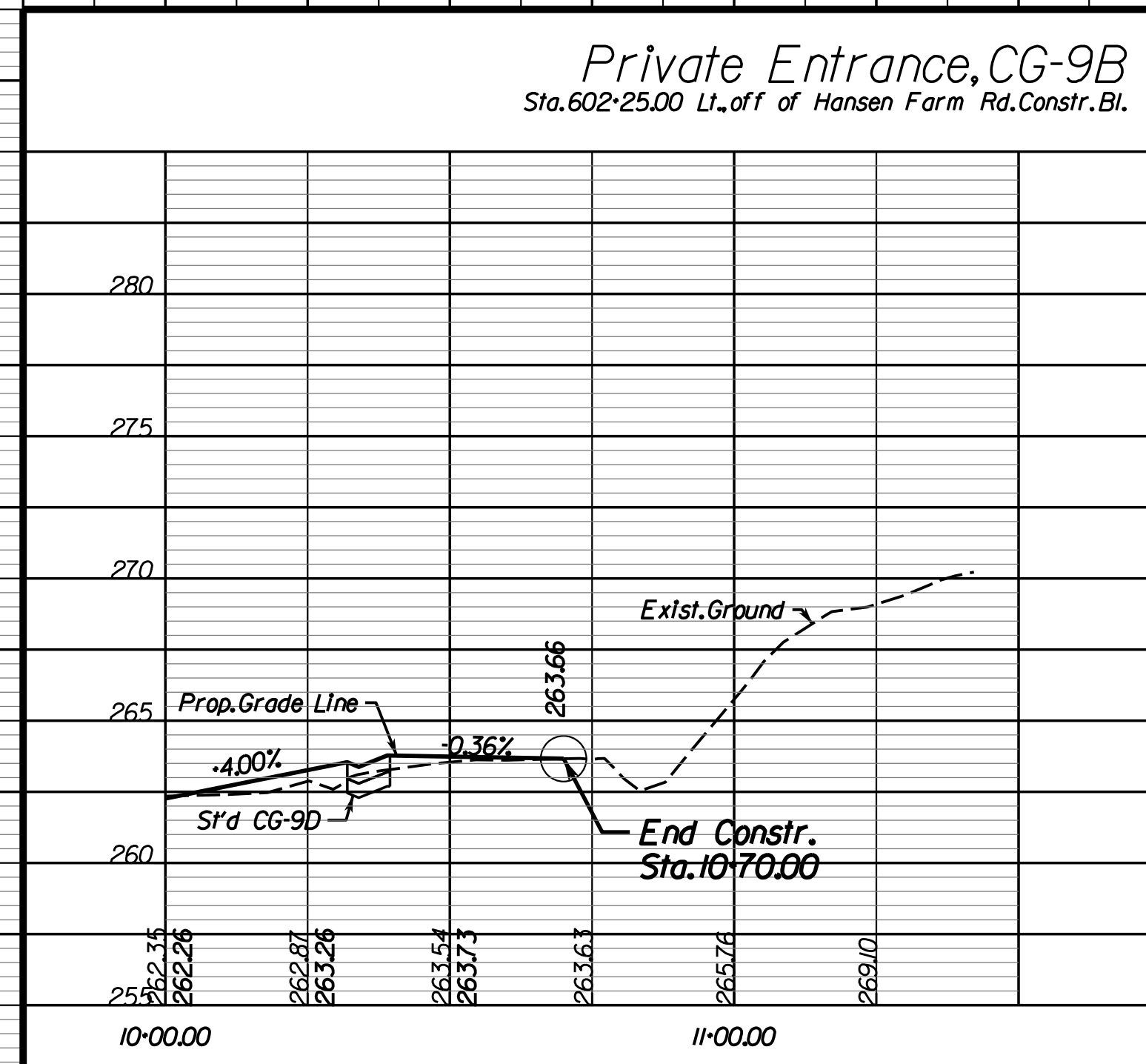
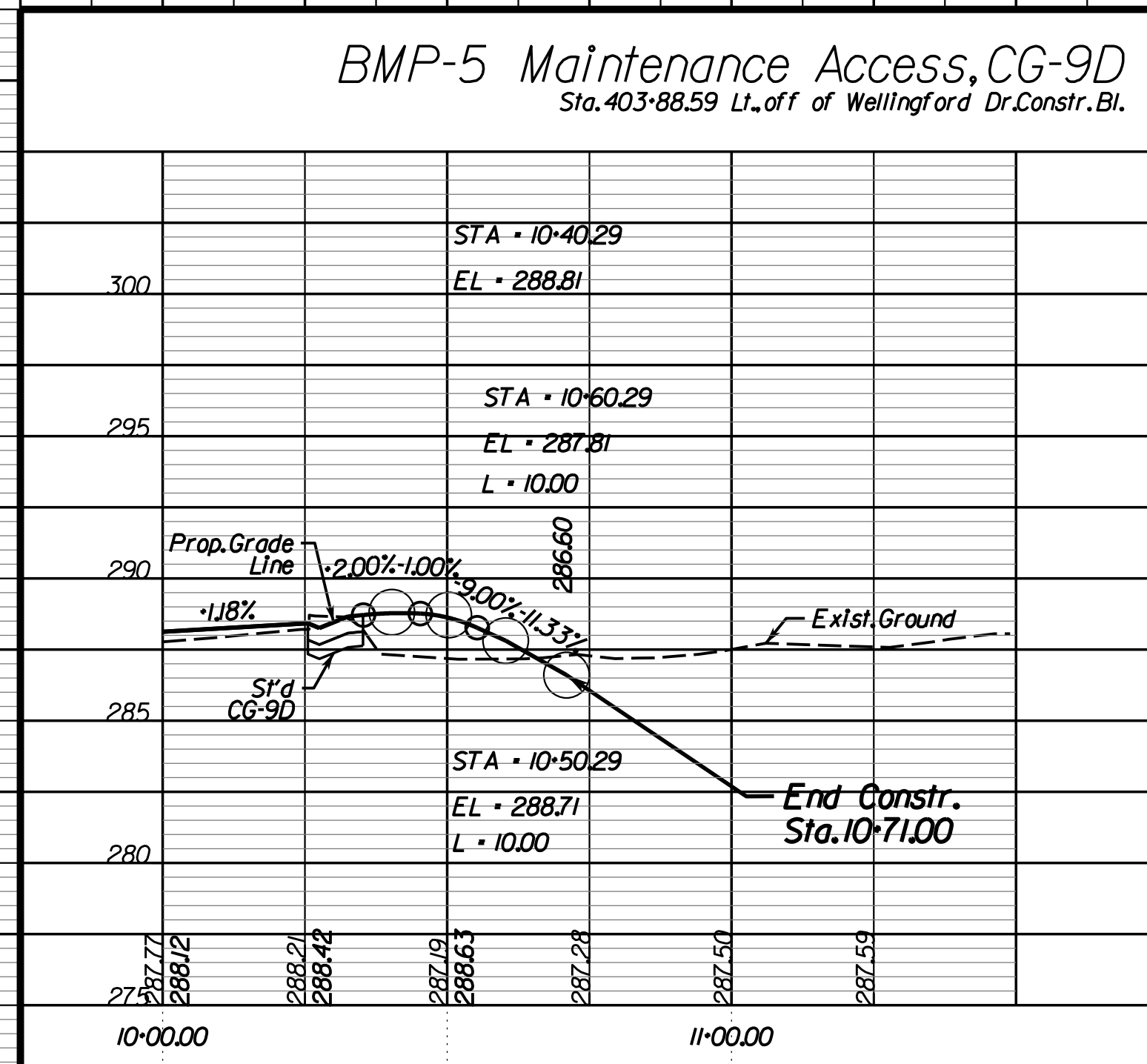
REVISED NDC02 NDC04	STATE VA.	ROUTE 621	STATE PROJECT 6234-076-266, C-501, RW-201	SHEET NO. 25(13D)
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DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT

Rinker Design Associates, P.C.
Manassas, Virginia
HYDRAULICS ENGINEER

Rinker Design Associates, P.C.
Manassas, Virginia
ROADWAY ENGINEER

Profile Sheet Entrances



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



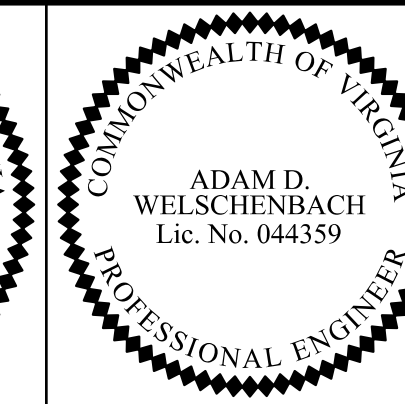
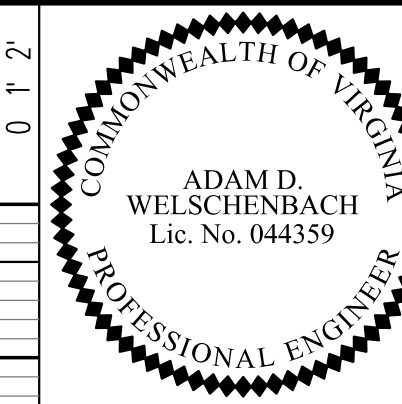
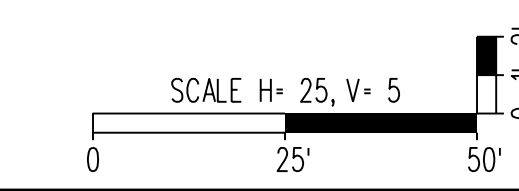
NOVA DISTRICT DESIGN UNIT

PROJECT MANAGER PWC_DOT: Mary Ankers (703) 792-4228
SURVEYED BY, DATE Rinker Design Associates, P.C. (703) 368-7373, April 11, 2020
DESIGN BY Rinker Design Associates, Mark Gunn, PE (703) 368-7373
SUBSURFACE UTILITY BY, DATE AccuMark (703) 635-3060, July 2019

04 Added sheet.

LIMITED ACCESS HIGHWAY

LIMITED ACCESS HIGHWAY



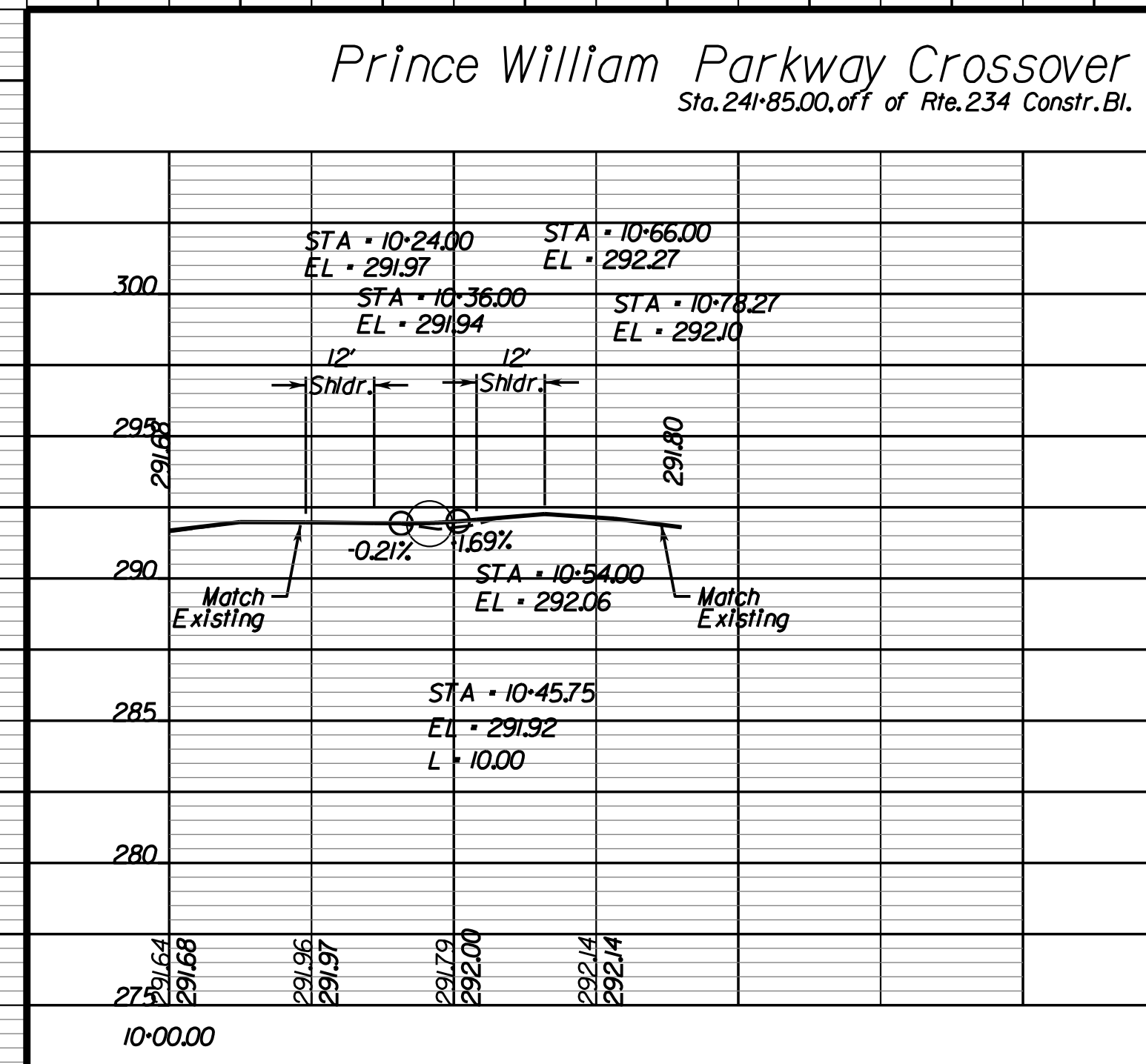
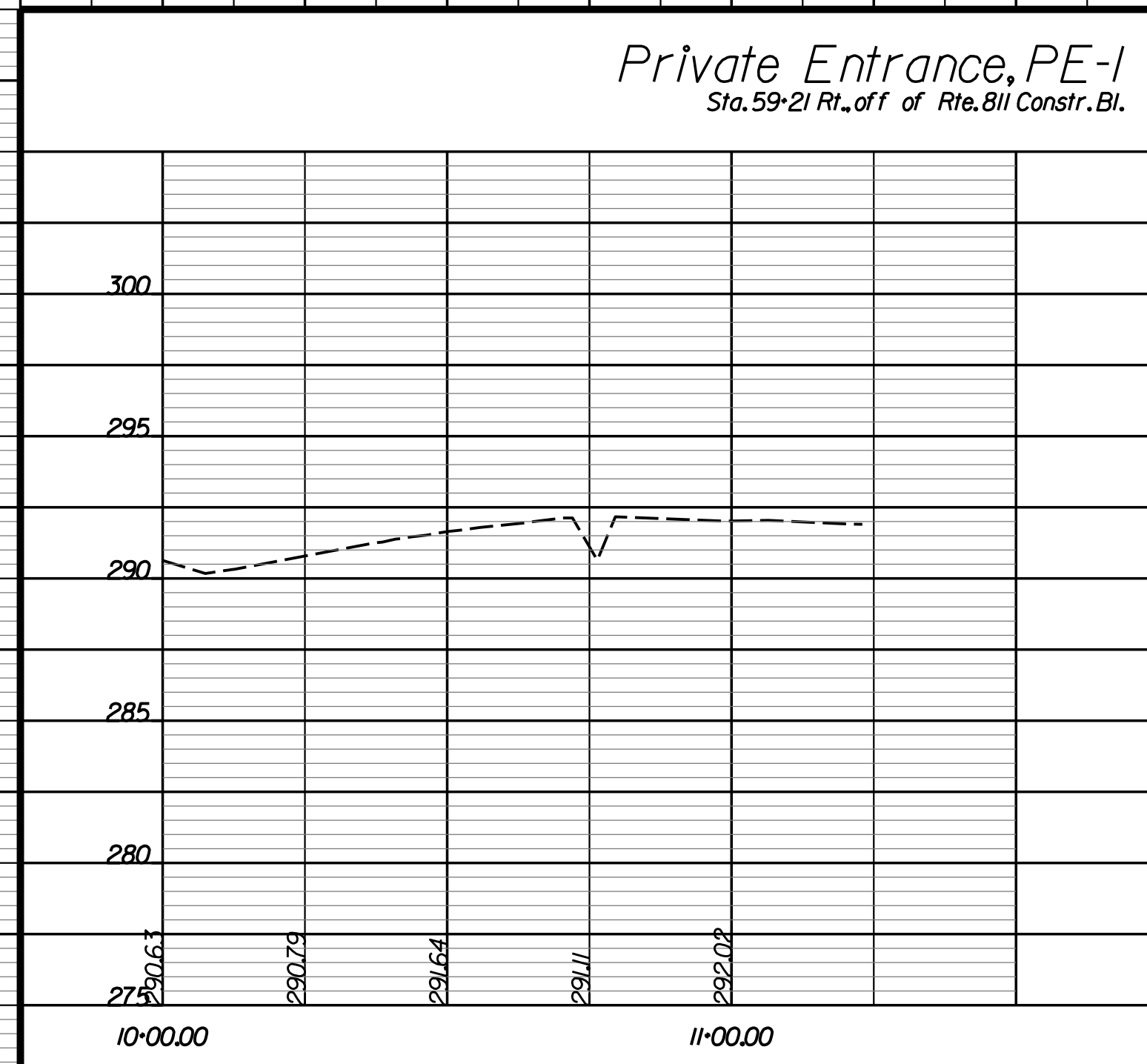
Rinker Design Associates, P.C.
Manassas, Virginia
HYDRAULICS ENGINEER

Rinker Design Associates, P.C.
Manassas, Virginia
ROADWAY ENGINEER

REVISED	STATE	ROUTE	PROJECT	SHEET NO.
NDC04	VA.	621	6234-076-266, C-501, RW-201	25(13E)

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

Profile Sheet
Entrances



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

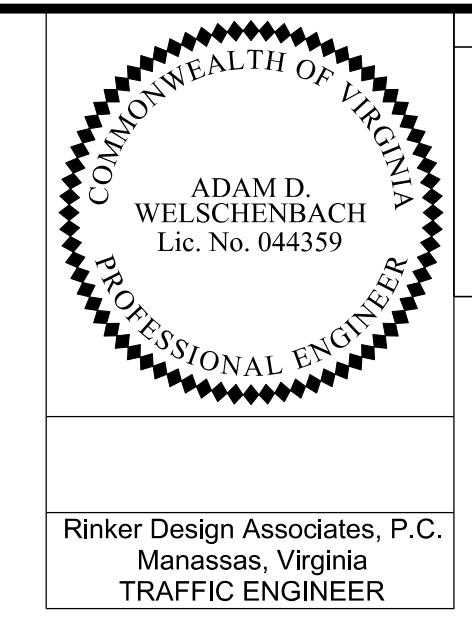


NOVA DISTRICT DESIGN UNIT

PROJECT MANAGER PWC_DOT: Mary Ankers (703) 792-4228
 SURVEYED BY, DATE Rinker Design Associates, P.C. (703) 368-7373, April 2020
 DESIGN BY Rinker Design Associates, Mark Gunn, PE (703) 368-7373
 SUBSURFACE UTILITY BY, DATE AccuMark (703) 635-3060, May 2020

PERMANENT SIGNAGE SCHEDULE

04 Revised signage for extended project limits/realignment.



REVISED	STATE	ROUTE	STATE PROJECT	SHEET NO.
NDC04	VA	621	6234-076-266, C-501, RW-201	26(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.
 Manassas, Virginia
 TRAFFIC ENGINEER

NOVA DISTRICT DESIGN UNIT
 LANE
 Rinker
 Design Associates, P.C.
 Office Locations: Manassas, VA; Fairfax, VA; Falls Church, VA; Herndon, VA; Reston, VA; Springfield, VA; Washington, DC; York, VA
 Services: Civil Engineering, Surveying, Land Planning, Transportation, Right-of-Way Services

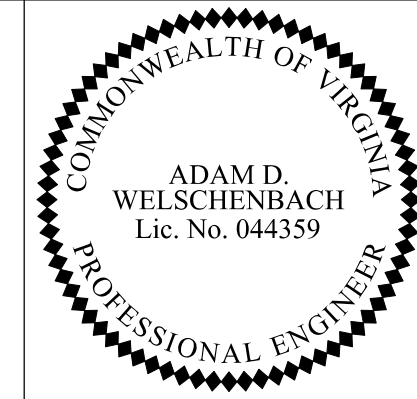
TEXT NO.	TEXT	SIGN NO.	SIGN STRUCT. ST'D.	PANEL SIZE		MUTCD ST'D.	SIGN AREA SQ.FT.EA.	REMARKS
				W(Inch)	H(Inch)			
01		301,410	STP-1 2 1/2" 12 GA. Single Post	79	31	Custom	17.01	Type A Foundation Req'd. See Sheet 26(2) for sign fabrication detail.
02		311	STP-1 2" 14 GA. Single Post	36	36	W6-2	9	Type A Foundation Req'd.
03		303,309	Attached to Type III Barricade	24	12	R9-9	2	See Sheet 26(1H) for Type III Barricade details.
04		302	STP-1 2 1/2" 12 GA. Single Post	24 24 36 21	12 12 36 15	M4-5 M3-1 M1-V2A M5-1L	2 2 9 2.19	Type A Foundation Req'd.
05		305	STP-1 2 1/2" 10 GA. Double Post	24 54 24 24 36 21	30 18 12 12 36 15	R4-7 R6-1R M4-5 M3-1 M1-V2A M6-1L	5 6.75 2 2 9 2.19	Type B Foundation Req'd.
07		306,407,412,413,419	STP-1 2 1/2" 10 GA. with 2 3/16" 10 GA. Inner Post Single Post	36 24 54	36 30 18	R3-18 R4-7 R6-1R	9 5 6.75	Inner post shall be no less than 6". Type B Foundation Req'd.
08		319,409,421,608,801,815,813,909	STP-1 2" 14 GA. Single Post	30	36	R2-1	7.5	Type A Foundation Req'd. See Note 7.
09		416,505,514,901,902,905	STP-1 2 1/2" 12 GA. Single Post	24 54	30 18	R4-7 R6-1R	5 6.75	Type A Foundation Req'd.

TEXT NO.	TEXT	SIGN NO.	SIGN STRUCT. ST'D.	PANEL SIZE		MUTCD ST'D.	SIGN AREA SQ.FT.EA.	REMARKS
				W(Inch)	H(Inch)			
10		403,404,405,506,515	STP-1 2" 14 GA. Single Post	36	36	R3-7R	9	Type A Foundation Req'd.
11		313,12205	STP-1 2" 14 GA. Single Post	30	30	R3-8 MOD	6.25	Type A Foundation Req'd.
12		314,904	STP-1 2 1/2" 10 GA. with 2 3/16" 10 GA. Inner Post Single Post	24 24 36 36 21 21	12 12 36 36 15 15	M3-2 M3-4 M1-V2A M1-V2A M6-1L M6-1R	2 2 9 9 2.19 2.19	Inner post shall be no less than 6". Type B Foundation Req'd.
13		310	STP-1 2" 14 GA. Single Post	48	24	W1-7	8	Type A Foundation Req'd.
14		316	STP-1 2 1/2" 12 GA. Single Post	36 24	36 18	W9-1R W16-2P	9 3	Type A Foundation Req'd.
15		317	STP-1 2 1/2" 12 GA. Single Post	24 24 36 21	12 12 36 15	M4-5 M3-3 M1-V2A M6-1R	2 2 9 2.19	Type A Foundation Req'd.

- NOTES:
- 1) All signs shall be oriented as shown on the plans.
 - 2) Sign color combinations shall be in accordance with the FHWA Standard Highway Signs and Markings Book and the 2011 Virginia Standard Highway Signs Book or as noted in the plans.
 - 3) All positive contrast guide and specific service signs shall utilize fabrication letter Type L3 or L4 unless otherwise noted in the remarks. All other signs shall utilize fabrication letter Type L1 or L2 unless otherwise noted in the remarks.
 - 4) All black sheeting shall be non-reflective.
 - 5) Sign structures shall be installed per the noted sign ST'd.
 - 6) Existing sign sizes approximated; existing sign dimensions shall be field verified to ensure proper sign structure is installed.
 - 7) Posted speed limit to be determined by speed study, unless speed is shown on the plan sheet. Contractor shall submit an RFI for final speed limits once Speed Study is approved.
 - 8) This sign is intended to be double sided and shall be installed as such with appropriate sign assemblies at no additional cost. Final shop drawings shall be submitted to County for approval prior to ordering of materials.

PROJECT MANAGER PWC DOT: Mary Ankers (703) 792-4228
 SURVEYED BY, DATE Rinker Design Associates, P.C. (703) 368-7373, April 2020
 DESIGN BY Rinker Design Associates, Mark Gunn, PE (703) 368-7373
 SUBSURFACE UTILITY BY, DATE Accurmark (703) 635-3060, May 2020

SIGNAGE PLAN



REVISED	STATE	ROUTE	STATE	PROJECT	SHEET NO.
NDC04	VA.	621		6234-076-266, C-501, RW-201	26(3)

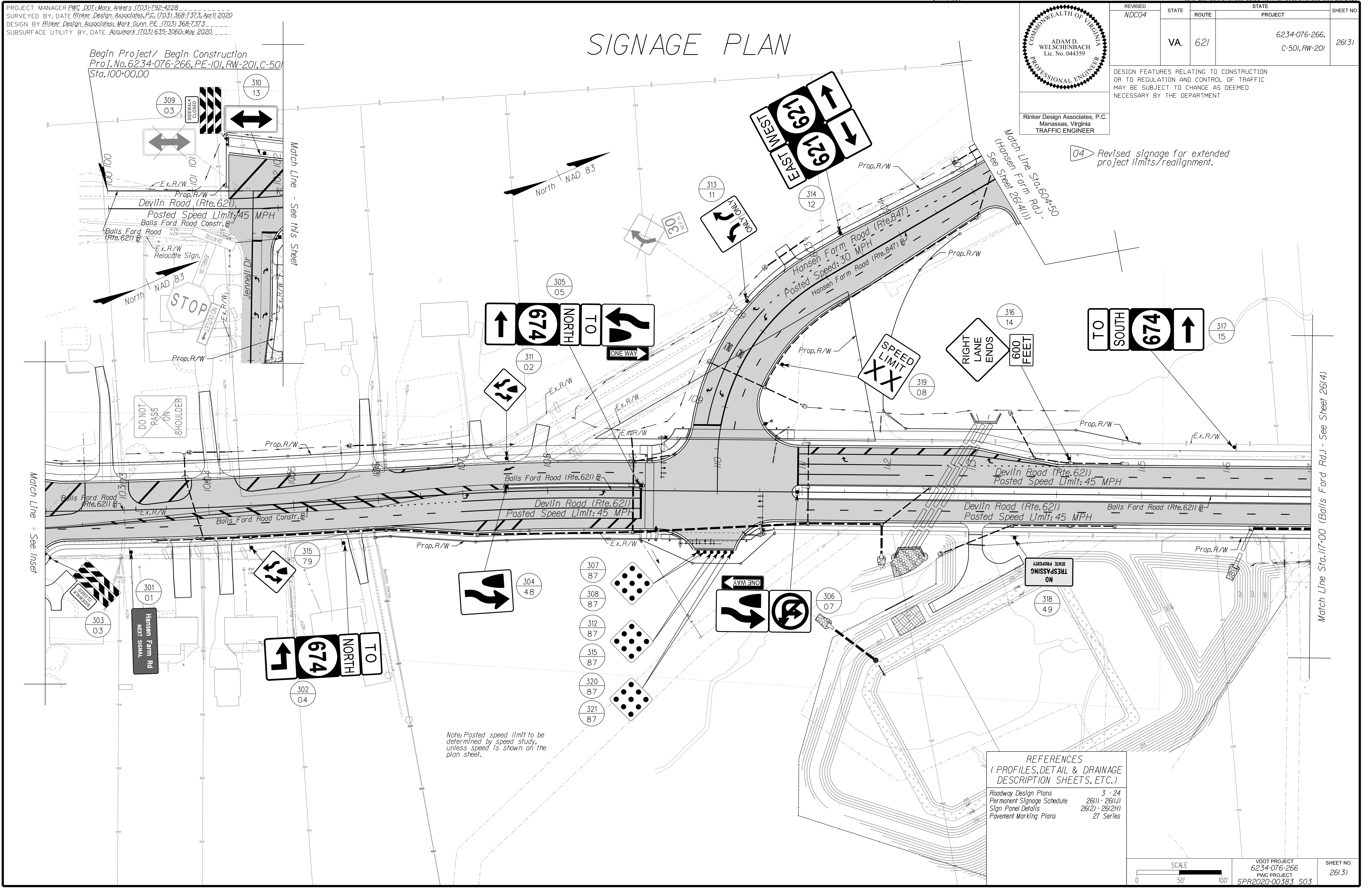
Rinker Design Associates, P.C.
 Manassas, Virginia
 TRAFFIC ENGINEER

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

04 Revised signage for extended project limits/realignment.

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

LANE
 NOVA DISTRICT DESIGN UNIT

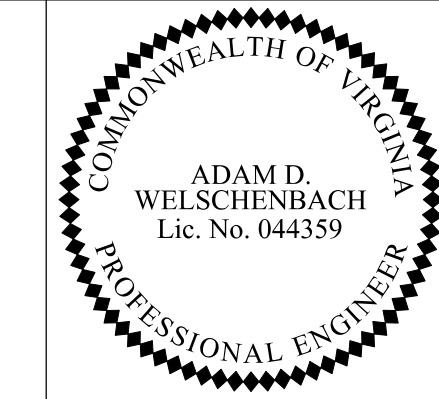


Note: Posted speed limit to be determined by speed study, unless speed is shown on the plan sheet.

REFERENCES
 (PROFILES, DETAIL & DRAINAGE DESCRIPTION SHEETS, ETC.)

Roadway Design Plans	3 - 24
Permanent Signage Schedule	26(1) - 26(11)
Sign Panel Details	26(2) - 26(2H)
Pavement Marking Plans	27 Series

PROJECT MANAGER PWC DOT: Mary Ankers (703) 792-4228
 SURVEYED BY, DATE Rinker Design Associates, P.C. (703) 368-7373, April 2020
 DESIGN BY Rinker Design Associates: Mark Gunn PE (703) 368-7373
 SUBSURFACE UTILITY BY, DATE Accurmark (703) 635-3060, May 2020



Rinker Design Associates, P.C.
 Manassas, Virginia
 TRAFFIC ENGINEER

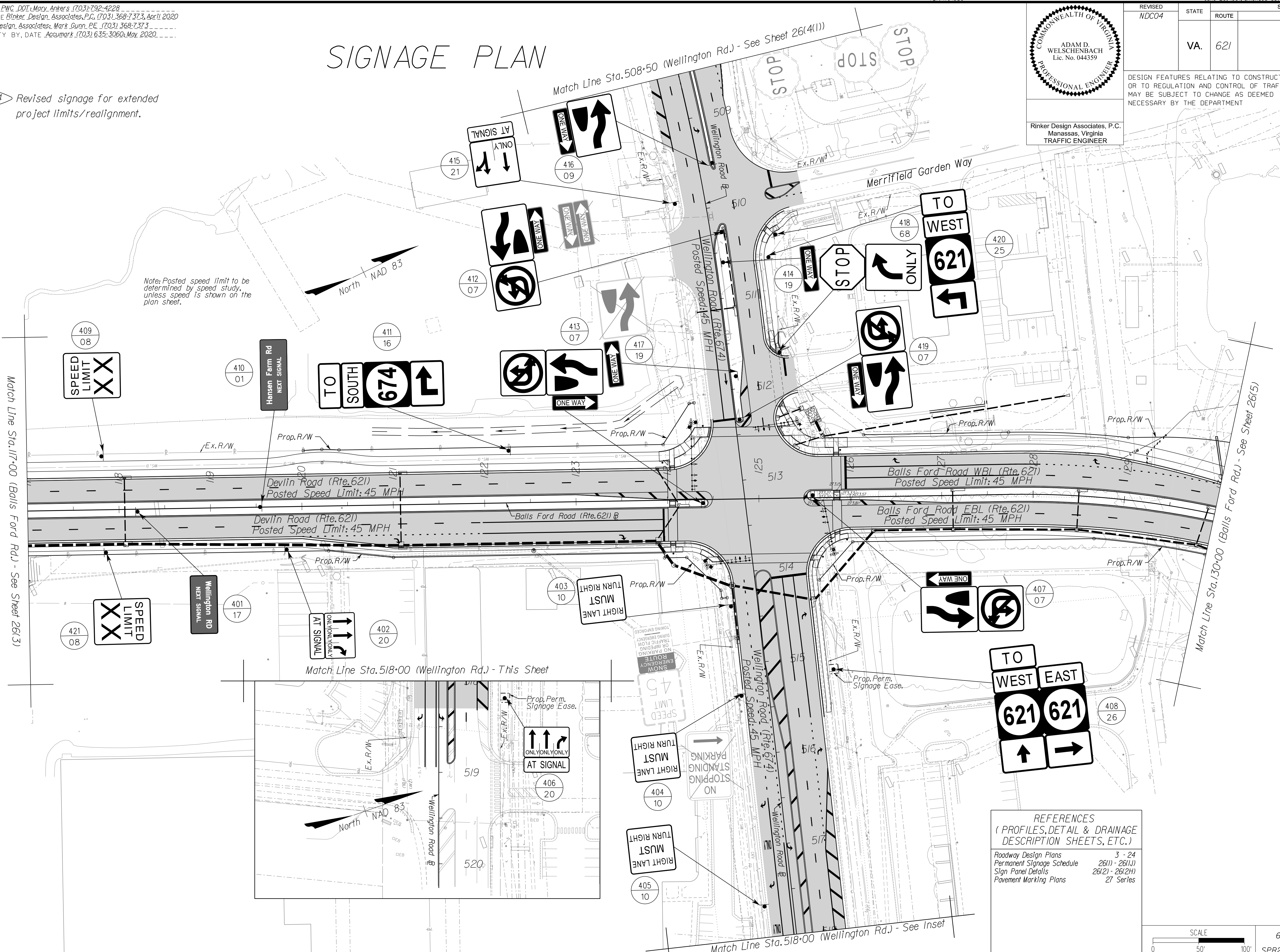
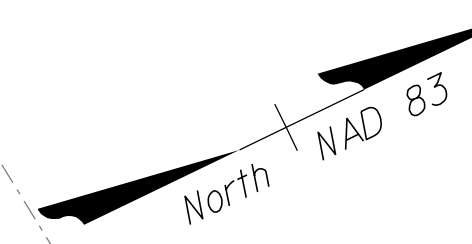
REVISED	STATE	ROUTE	STATE	PROJECT	SHEET NO.
NDC04	VA.	621		6234-076-266, C-501, RW-201	26(4)

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

SIGNAGE PLAN

04 Revised signage for extended project limits/realignment.

Note: Posted speed limit to be determined by speed study, unless speed is shown on the plan sheet.



Match Line Sta. 117+00 (Balls Ford Rd.) - See Sheet 26(3)

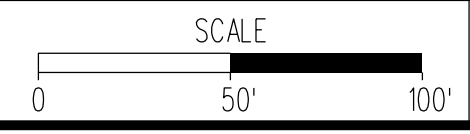
Match Line Sta. 518+00 (Wellington Rd.) - This Sheet

Match Line Sta. 130+00 (Balls Ford Rd.) - See Sheet 26(5)

Match Line Sta. 518+00 (Wellington Rd.) - See Inset

REFERENCES
 (PROFILES, DETAIL & DRAINAGE DESCRIPTION SHEETS, ETC.)

Roadway Design Plans	3 - 24
Permanent Signage Schedule	26(1) - 26(11)
Sign Panel Details	26(2) - 26(2H)
Pavement Marking Plans	27 Series



VDOT PROJECT 6234-076-266 PWC PROJECT SPR2020-00383 S03	SHEET NO. 26(4)
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Design Associates, P.C.
 Civil Engineering • Surveying • Land Planning
 Transportation • Right-of-Way Services

LANE

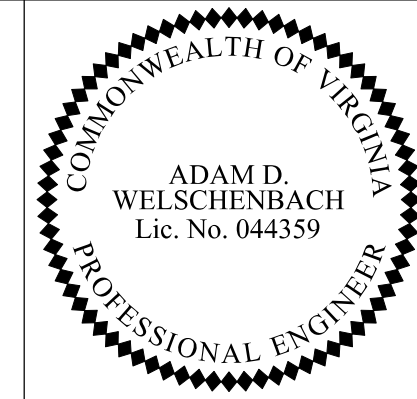
NOVA DISTRICT DESIGN UNIT

Office Locations

Manassas, VA
 Fairfax, VA
 Falls Church, VA
 Herndon, VA
 Reston, VA
 Springfield, VA
 Vienna, VA
 Woodbridge, VA

PROJECT MANAGER PWC_DOT: Mary Ankers (703) 792-4228
 SURVEYED BY, DATE Rinker Design Associates, P.C. (703) 368-7373, April 2020
 DESIGN BY Rinker Design Associates, Mark Gunn, PE (703) 368-7373
 SUBSURFACE UTILITY BY, DATE Accurmark (703) 635-3060, May 2020

PAVEMENT MARKING PLAN

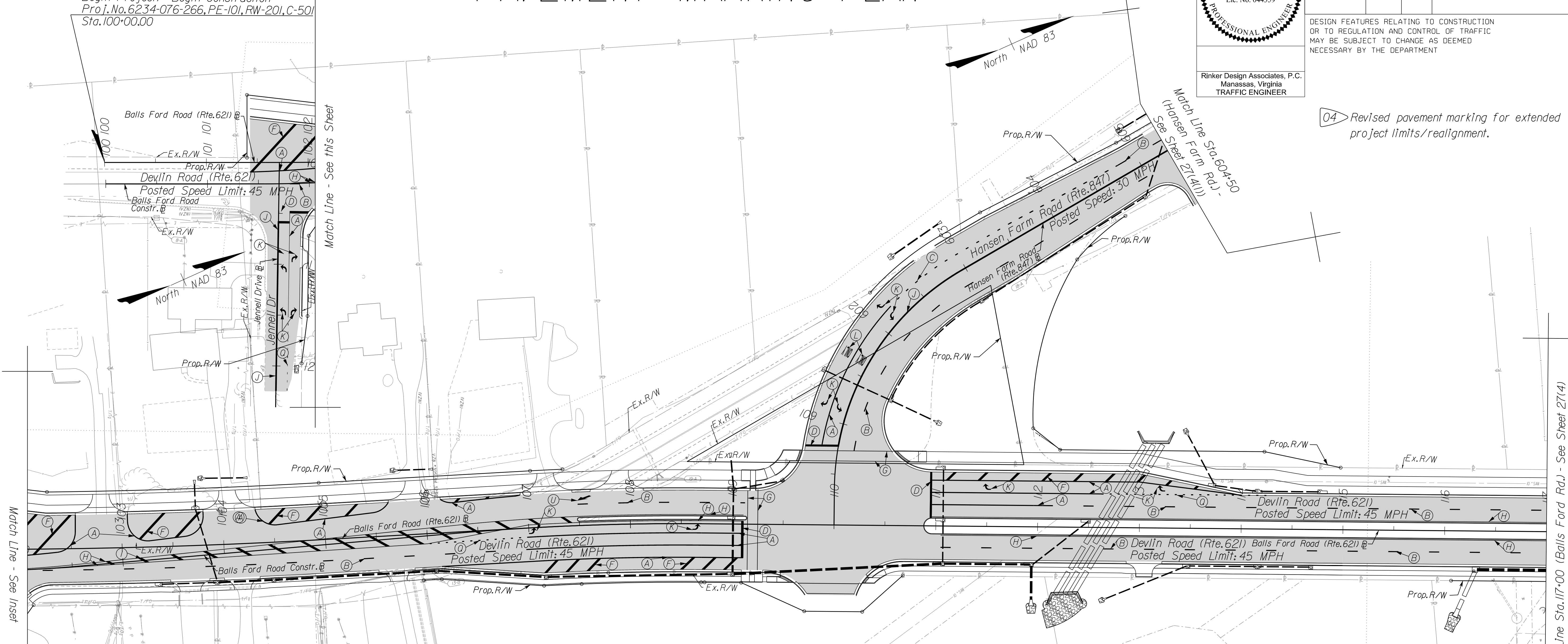


REVISED	STATE	ROUTE	STATE	PROJECT	SHEET NO.
NDC04	VA.	621		6234-076-266, C-501, RW-201	27(3)

Rinker Design Associates, P.C.
 Manassas, Virginia
 TRAFFIC ENGINEER

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

04 Revised pavement marking for extended project limits/realignment.



Pavement Marking General Notes

- All proposed pavement markings shall be in accordance with the most current edition of each of the following and any revision thereof:
 - A. Manual on Uniform Traffic Control Devices (MUTCD)
 - B. The Virginia Supplement to the Manual on Uniform Traffic Control Devices
 - C. The Virginia Department of Transportation Road and Bridge Specifications
 - D. The Virginia Department of Transportation Road and Bridge Standards
 - E. The Northern Region Operations Traffic Engineering Standard Practice No. 301J
- Any existing pavement markings which will conflict with the proposed pavement markings as shown, shall be completely eradicated.
- Limits shown on proposed pavement markings are approximate and shall be modified in the field to ensure that proposed pavement markings continue until existing pavement markings can be matched.
- Any changes to the Pavement Marking plans as shown, shall be approved by the VDOT Traffic Engineer.
- Snowplowable Raised Markers are proposed with this project. The Contractor shall not be permitted to reduce the pavement marking Class/Type.
- The Contractor shall not be permitted to reduce pavement marking Class/Type.
- The cost of eradicating existing pavement markings, which conflict with the proposed pavement markings, shall be considered incidental to the project and shall not be paid for as a separate item.
- The Contractor shall coordinate well in advance of actual installation of pavement markings to ensure materials are available. Any delays to the project schedule due to lack of materials related to pavement markings shall be the sole responsibility of the Contractor.

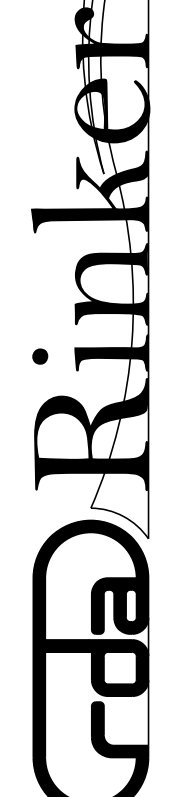
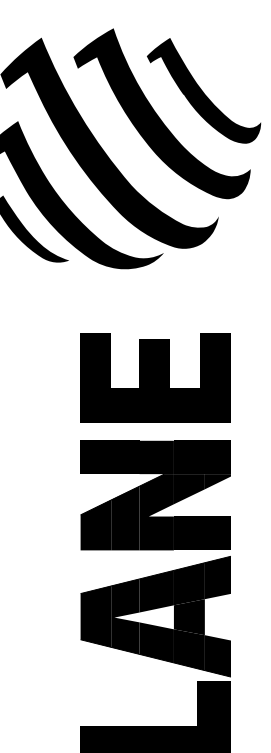
** Pavement Marking Legend **

A Type B, Class I, White, 4" Width	K Type B, Class I, White, Turn Lane Use Arrow
B Type B, Class I, White, 4" Width, 10' Long, 30' Spacing	L Type B, Class I, White, "Only" Pavement Marking
C Type B, Class I, White, 8" Width, 3' Long, 9' Spacing	Q Type B, Class I, White, 4" Width, 2' Long, 6' Spacing
D Type B, Class I, White, 24" Width	P Type B, Class I, White, 12" Width
E Type B, Class I, White, 24" Width, 10' Length, 24" Spacing @ 45'	R Type B, Class I, Yellow, 24" Width, 30' Spacing @ 45'
F Type B, Class I, White, 24" Width, 20' Spacing @ 45'	S Type B, Class I, White, 6" Width, 10' Long, 30' Space
G Type B, Class I, White, 6" Width	T Type B, Class I, Yellow, 6" Width
H Type B, Class I, Yellow, 4" Width	U Type B, Class I, White, Right Lane Reduction Arrow
I Type B, Class I, Yellow, 24" Width, 20' Spacing @ 45'	TE Denotes Tie to Existing Pavement Marking
J Type B, Class I, Yellow, 4" Width, Double Line, 4" Spacing	▽ Snow-Plowable, Raised Pavement Marker, One-Sided
	■ Shading Denotes Areas of New Surface Pavement / Concrete

Note: Any existing condition that does not reflect the pavement marking plan as shown on this sheet, shall be completely eradicated per VDOT Standards. The cost shall be incidental to the project and not paid for as a separate item.

REFERENCES	
(PROFILES, DETAIL & DRAINAGE DESCRIPTION SHEETS, ETC.)	
Roadway Design Plans	3 thru 24
Signage Plans	26 Series

NOVA DISTRICT DESIGN UNIT



Office Locations

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