THIS PROJECT WAS DEVELOPED UTILIZING THE ENGINEERING DESIGN PACKAGE (AutoCAD CIVIL 3D).
Computer Identification No. (UPC 104159)

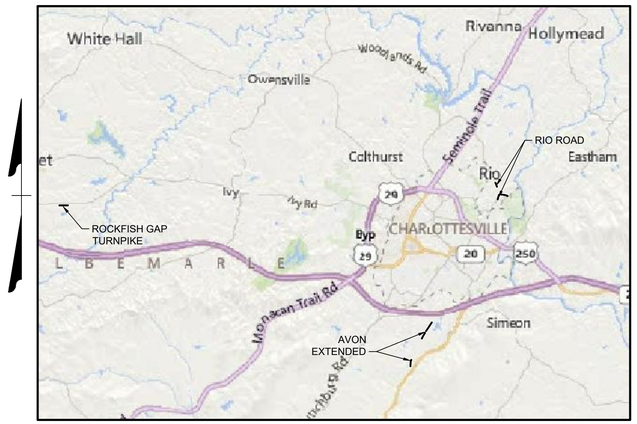
STATE	FEDERAL AID PROJECT	STATE ROUTE	STATE PROJECT	SHEET NO.
VA.		631 742 US250	0000-002-R78 (SEE TABULATION BELOW FOR SECTION NUMBERS)	1

PLAN AND PROFILE OF PROPOSED STATE HIGHWAY

ALBEMARLE COUNTY, VIRGINIA
RIO ROAD (ROUTE 631)
AVON EXTENDED (ROUTE 742)
ROCKFISH GAP TURNPIKE (US 250)

INDEX OF SHEETS

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ROCKFISH GAP TURNPIKE RIGHT-OF-WAY PLAN SHEETS	5RW-5ARW
AVON EXTENDED PLAN & PROFILE SHEETS	6-6E
AVON EXTENDED RIGHT-OF-WAY PLAN SHEETS	6RW-6ARW
STORMWATER PROFILES	7 - 7C
RIO ROAD SECTION 1 - CROSS SECTIONS	XS-1 - XS-3
RIO ROAD SECTION 2 - CROSS SECTIONS	XS-4 - XS-6
ROCKFISH GAP TURNPIKE - CROSS SECTIONS	XS-7 - XS-10
AVON EXTENDED - CROSS SECTIONS	XS-11 - XS-23
TOTAL NUMBER OF SHEETS	**93**



LOCATION MAP
SCALE: 1" = 2 MILES

FUNCTIONAL CLASSIFICATION AND TRAFFIC DATA

ROUTE 631 (RIO ROAD)
MAJOR COLLECTOR - ROLLING - UNDIVIDED (URBAN STANDARD GS-7 USED)
35 MPH MINIMUM DESIGN SPEED - DESIGN VEHICLE WB-50

ROUTE 742 (AVON STREET EXTENDED)
MAJOR COLLECTOR - ROLLING - UNDIVIDED (URBAN STANDARD GS-7 USED)
45 MPH MINIMUM DESIGN SPEED - DESIGN VEHICLE WB-67

US 250 (ROCKFISH GAP TURNPIKE)
MINOR ARTERIAL - ROLLING - UNDIVIDED (URBAN STANDARD GS-6 USED)
45 MPH MINIMUM DESIGN SPEED - DESIGN VEHICLE WB-67

	US 250	ROUTE 631 SOUTH OF 768	ROUTE 631 NORTH OF 768	ROUTE 742
ADT (2019)	9800	9300	28000	12000
ADT (2039)	12000	11350	34165	14645
DHV	945	995	2660	1180
D (%) (design hour)	61%	60%	51%	61%
T (%) (design hour)	2%	1%	1%	2%
V (MPH)	*	*	*	*

* SEE PLAN AND PROFILE SHEETS FOR HORIZONTAL AND VERTICAL DESIGN SPEED

LOCALLY ADMINISTERED PROJECTS

ALBEMARLE COUNTY
NAME OF LOCALITY

(SIGNATURE)
NAME OF RESPONSIBLE LOCAL GOVERNMENT OFFICAL (TYPED)
RECOMMENDED FOR APPROVAL FOR RIGHT OF WAY ACQUISITION

11/09/2017	JACK M. KELSEY, TRANSPORTATION ENGINEER
DATE	TRANSPORTATION ENGINEER

(SIGNATURE)
NAME OF RESPONSIBLE LOCAL GOVERNMENT OFFICAL (TYPED)
RECOMMENDED FOR APPROVAL FOR CONSTRUCTION

10/27/2020	JACK M. KELSEY, TRANSPORTATION ENGINEER
DATE	TRANSPORTATION ENGINEER

FINAL CONSTRUCTION DOCUMENTS

10/28/2020

Population 104,489 (2014 Census)

STATE PROJECT NO.	SECTION	FEDERAL AID PROJECT NO.	TYPE CODE	UPC NO.	EQUALITIES	LENGTH INCLUDING BRIDGE(S)		LENGTH EXCLUDING BRIDGE(S)		BRIDGE PROJECT NO.	TYPE PROJECT	DESCRIPTION
					FEET	FEET	MILES	FEET	MILES			
0000-002-R78	P-101		PENG	104159	NONE	7804	1.47	7804	1.27		PRELIMINARY	REFER T0 LOCATION MAP THIS SHEET & SHEET 1.1 & 1.2
	R-201		ROW	104159	NONE	7804	1.47	7804	1.27		RIGHT OF WAY	REFER T0 LOCATION MAP THIS SHEET & SHEET 1.1 & 1.2
	C-501		CONSTR.	104159	NONE	7804	1.47	7804	1.27		CONSTR.	REFER T0 LOCATION MAP THIS SHEET & SHEET 1.1 & 1.2

Project Lengths are based on Construction Baseline.

COMMONWEALTH OF VIRGINIA
Jonathan Showalter
JONATHAN M. SHOWALTER
Lic. No. 0402057151
10/28/2020
PROFESSIONAL ENGINEER

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

THIS PROJECT IS TO BE CONSTRUCTED IN ACCORDANCE WITH THE DEPARTMENT'S 2020 ROAD AND BRIDGE SPECIFICATIONS, 2016 ROAD AND BRIDGE STANDARDS, 2009 MUTCD WITH REVISIONS 1 AND 2, MAY 2012, 2011 VIRGINIA SUPPLEMENT TO THE MUTCD REVISION 1, 2019 VIRGINIA WORK AREA PROTECTION MANUAL REVISION 2 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.

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REVISIONS

DATE	REVISION DESCRIPTION

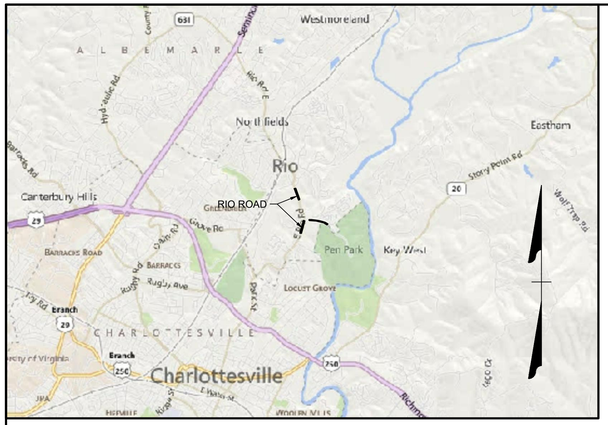
TRAFFIC CONTROL:
THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING ALL TRAFFIC CONTROL DEVICES, SIGNAGE, EQUIPMENT, PERSONNEL, INCLUDING CERTIFIED TRAFFIC CONTROL PERSONNEL, ETC. TO CONTROL TRAFFIC DURING CONSTRUCTION WITHIN VDOT MAINTAINED RIGHT-OF-WAY. ALL TRAFFIC CONTROL SHALL BE IN STRICT ACCORDANCE WITH THE STANDARDS, GUIDELINES, POLICIES, AND OBJECTIVES OF THE LATEST EDITION OF THE VIRGINIA WORK AREA PROTECTION MANUAL REVISION 2, MANUAL FOR UNIFORM TRAFFIC CONTROL DEVICES (MUTCD), AND ALL VDOT PERMITS.

DEVELOPER / APPLICANT

ALBEMARLE COUNTY OFFICE OF FACILITIES DEVELOPMENT
401 MCINTIRE ROAD
CHARLOTTESVILLE, VA 22902
CONTACT: JACK KELSEY
PHONE: 434.872.4501
FAX: 434.972.4091

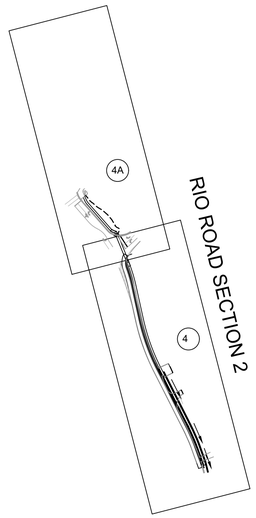
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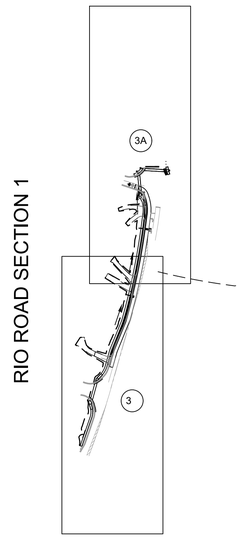
RIO ROAD KEY PLAN

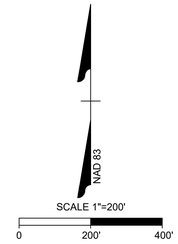


RIO ROAD LOCATION MAP

SCALE: 1" = 4,000'







RIO ROAD SECTION 1
FROM: 0.054 MI. SOUTH OF TOWNE LANE
TO: WALDORF SCHOOL ROAD

RIO ROAD SECTION 2
FROM: 0.125 MI. SOUTH OF DUNLORA DRIVE
TO: 0.039 MI. NORTH OF DUNLORA DRIVE

COMMONWEALTH OF VIRGINIA
JONATHAN M. SHOWALTER
Lic. No. 0402057151
10/28/2020
PROFESSIONAL ENGINEER

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DATE
DATE: 10/28/2020
DRAWN BY: J. SHOWALTER
DESIGNED BY: J. SHOWALTER
CHECKED BY: J. HASH
SCALE: AS NOTED

TIMMONS GROUP

ALBEMARLE COUNTY SIDEWALKS
COUNTY OF ALBEMARLE, VIRGINIA
KEY PLAN

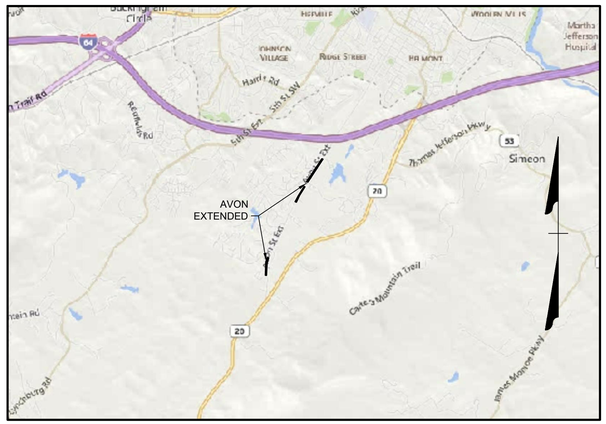
JOB NO. 33882.005
SHEET NO. 1A

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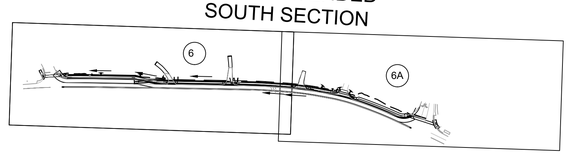
AVON EXTENDED LOCATION MAP

SCALE: 1" = 4,000'

AVON EXTENDED KEY PLAN

FROM: ARDEN DRIVE
TO: STONEY CREEK DRIVE

AVON EXTENDED
SOUTH SECTION



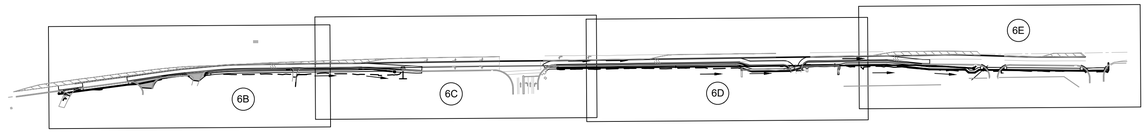
NAD 83

SCALE 1"=200'
0 200' 400'

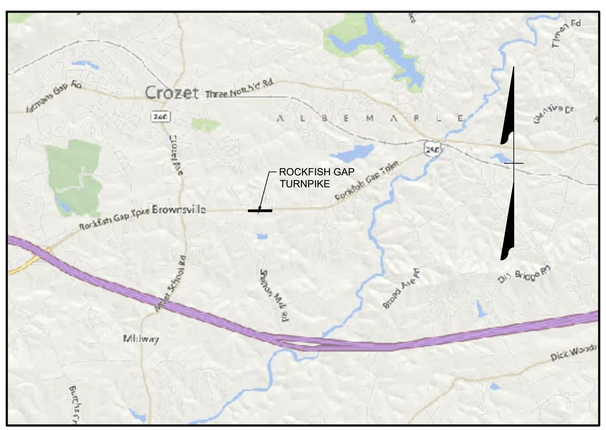
FROM: 0.246 MI. WEST OF MILL CREEK DRIVE
TO: SWAN LAKE DRIVE

NAD 83

AVON EXTENDED
NORTH SECTION



SCALE 1"=200'
0 200' 400'


Crozet
Three Notched Rd
ALBEMARLE
ROCKFISH GAP
TURNPIKE
Rockfish Gap Tpke
Brownsville
Exhibit Gap Trail
Broad Axe Pl
Dick Woods
Midway
Rockfish Gap
Tpke
Tilman Rd
Dick Woods Dr
Crozet Ave
Sharon Mill Rd
Ridge School Rd
Broad Axe Pl
Dick Woods Pl
Beaver Creek Dr
Beaver Creek Rd
Beaver Creek Ln
Beaver Creek Ct
Beaver Creek Cir
Beaver Creek Pl
Beaver Creek Trl
Beaver Creek Way
Beaver Creek Pkwy
Beaver Creek Blvd
Beaver Creek Ave
Beaver Creek St

RIGHT OF WAY DATA SHEET

RIO ROAD

PARCEL NO.	TAX MAP NO.	LANDOWNER	(RW) SHEET NO.	AREA						
				TOTAL	FEE TAKING	PRESCRIPTIVE R/W	FEE REMAINDER	EASEMENTS		PROFFERS
								PERMANENT	TEMPORARY	
								PERPETUAL STREET	CONSTR.	
				ACRES	SQ. FEET	SQ. FEET	ACRES	SQ. FT.	SQ. FT.	YES / NO
001	61-182	TREESDALE LP	3	6.176	0	-	6.176	0	85	
002	61A-03-1	NORMAND AND THERESA AUGER	3	0.353	1328	-	0.323	0	1682	
003	61A-03-A	PHASE ONE VILLAGE SQUARE PROPERTY OWNERS ASSOC.	3	2.160	559	-	2.147	0	1023	
004	61-180A	ANTON C. LARGIADER AND MEREDITH H. LARGIADER, TRUSTEES LARGIADER LIVING TRUST	3	1.120	1162	-	1.093	0	3964	
005	61-179	JOHN H. AND MARY N. KETCHAM	3	0.919	249	-	0.913	0	3528	
006	61-173A	CHRISTINE FELDMAN	3, 3A	1.170	349	-	1.162	0	8351	
007	61-170	CHARLOTTESVILLE WALDORF FOUNDATION	3A	13.205	324	-	13.198	0	1092	
008	61-174	CHARLOTTESVILLE WALDORF SCHOOL, INC.	3A	0.606	172	-	0.602	0	55	
009	62F-1-C	DUNLORA FOREST PROPERTY OWNERS' ASSOCIATION, INC.	4	0.075	0	-	0.075	51	70	
010	61-165A	EAT RHINO, LLC	4	1.210	3236	1800	1.136	0	870	
011	61-165B	WILLIAM H. ROGERS, JR. & SHARYON L. ROGERS	4	1.260	166	-	1.256	0	1744	
012	61-165C	LAWRENCE E. MARTIN, JR.	4	0.490	6	-	0.490	0	1817	
013	61-165R	DUNLORA INVESTMENTS, LLC	4	8.552	0	-	8.552	0	2480	
038	61-169	CITY OF CHARLOTTESVILLE	4A	0.787	0	-	0.787	0	643	

RIGHT OF WAY DATA SHEET

ROCKFISH GAP TURNPIKE SITE PLAN

PARCEL NO.	TAX MAP NO.	LANDOWNER	SHEET NO.	AREA						
				TOTAL	FEE TAKING	PRESCRIPTIVE R/W	FEE REMAINDER	EASEMENTS		PROFFERS
								PERMANENT	TEMPORARY	
								DRAINAGE EASEMENT	CONSTR.	
				ACRES	SQ. FEET	SQ. FEET	ACRES	SQ. FT.	SQ. FT.	YES / NO
014	56F-1-A	CORY FARM HOMEOWNERS' ASSOCIATION, INC.	5	33.821	0	-	33.821	797	1989	
015	56-107B1	DAVID F. SWORTZEL, LINDEN SHROYER, & WALTER L. RADFORD, TRUSTEES FOR KING SOLOMON'S MASONIC LODGE NO. 194, A.F. & A.M.	5A	1.460	0	-	1.460	0	177	
016	56F1-A1	CLOVER LAWN VILLAGE OWNERS' ASSOCIATION, INC.	5A	4.755	200	-	4.750	0	2832	
017		NOT USED								
018		NOT USED								

COMMONWEALTH OF VIRGINIA
JONATHAN M. SHOWALTER
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10/28/2020
PROFESSIONAL ENGINEER

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DESIGNED BY
J. SHOWALTER
CHECKED BY
J. HASH
SCALE
N/A

TIMMONS GROUP

ALBEMARLE COUNTY SIDEWALKS
COUNTY OF ALBEMARLE, VIRGINIA
RIGHT OF WAY DATA SHEET

JOB NO.
33882.005
SHEET NO.
1C

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RIGHT OF WAY DATA SHEET

AVON EXTENDED SITE PLAN

PARCEL NO.	TAX MAP NO.	LANDOWNER	(RW) SHEET NO.	AREA						PROFFERS
				TOTAL	FEE TAKING	PRESCRIPTIVE R/W	FEE REMAINDER	EASEMENTS		
								PERMANENT	TEMPORARY	
								SIGN EASEMENT	CONSTR.	
				ACRES	SQ. FEET	SQ. FEET	ACRES	SQ. FT.	SQ. FT.	YES / NO
019	90F-A1	AVON PARK COMMUNITY ASSOCIATION, INC.	6	2.836	41	-	2.835	0	348	
020	90-33	JEANETTE D. SMITH	6	2.096	555	-	2.083	0	5157	
020	90-33C	JEANETTE D. SMITH	6	0.889	0	-	-	0	1701	
020	90-33B	JEANETTE D. SMITH	6	0.658	0	-	-	0	3063	
021		(NOT USED)								
022		(NOT USED)								
023	90-33A	JANETH E. DANIELS, HOWARD G. CAREY, LINDA M. CAREY, AND FAYE ANDERSON, TRUSTEES OF FAITH TEMPLE CHURCH	6, 6A	0.860	0	-	-	0	2176	
024	90-34	LOUISE C. WRIGHT, ROBERT S. WRIGHT, & RODERICK R. TIMBERLAKE, TRUSTEES OF FAITH TEMPLE, A NON-DENOMINATIONAL CHURCH	6A	0.629	0	-	-	0	1020	
025	91-13	COUNTY OF ALBEMARLE SCHOOL BOARD	6B	15.958	310	-	15.951	80	1184	
026	91-1D	DOMINION CRANE & RIGGING, INC.	6B	3.580	404	-	3.571	0	3765	
027	91-1	ALBEMARLE COUNTY SERVICE AUTHORITY	6B	9.536	0	-	-	0	796	
027	91-1B	ALBEMARLE COUNTY SERVICE AUTHORITY	6B	0.903	0	-	-	0	716	
027	91-1A	ALBEMARLE COUNTY SERVICE AUTHORITY	6B	0.342	0	-	-	0	222	
028		(NOT USED)								
029		(NOT USED)								
030	91-1F	DONALD W. SHIFFLETT	6B	0.330	0	-	-	0	408	
031	91-1E	ALBEMARLE COUNTY SERVICE AUTHORITY	6B	0.342	0	-	-	0	264	
031	91-1A	ALBEMARLE COUNTY SERVICE AUTHORITY	6B, 6C	0.658	0	-	-	0	1187	
032	91-2D1	WHITEWASH, LLC	6C	0.780	0	-	-	0	200	
033	77-47	HILLCREST, LLC	6D	5.985	43	-	5.984	0	559	
034	77-43	CALVARY BAPTIST CHURCH OF CHARLOTTESVILLE, VIRGINIA	6D	3.000	1253	-	2.971	0	1729	
035	77-45	LAKESIDE ASSOCIATES II, LLC	6D, 6E	2.474	2455	-	2.418	0	3811	
036	77-44	LAKESIDE ASSOCIATES LIMITED LIABILITY COMPANY	6E	12.565	3540	-	12.484	0	2432	
037	77-46	LAKESIDE ASSOCIATES II, LLC	6E	8.958	200	-	8.953	0	107	

COMMONWEALTH OF VIRGINIA
JONATHAN M. SHOWALTER
Lic. No. 0402057151
10/28/2020
PROFESSIONAL ENGINEER

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J. SHOWALTER
DESIGNED BY
J. SHOWALTER
CHECKED BY
J. HASH
SCALE
N/A

TIMMONS GROUP

ALBEMARLE COUNTY SIDEWALKS
COUNTY OF ALBEMARLE, VIRGINIA
RIGHT OF WAY DATA SHEET

JOB NO.
33882.005
SHEET NO.
1D

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ROCKFISH GAP TURNPIKE

Horizontal Alignment Station and Curve Report

Tangent Data

Description	PT Station	Northing	Easting
Start:	10+00.000	3906454.827	11429486.77
End:	22+22.189	3906478.633	11430708.73

Tangent Data

Parameter	Value	Parameter	Value
Length:	1222.189	Course:	N 88° 53' 01.9746" E

RIO ROAD SECTION 1

Horizontal Alignment Station and Curve Report

Tangent Data

Description	PT Station	Northing	Easting
Start:	10+00.000	3907295.134	11494118.7
End:	11+28.597	3907415.104	11494165.01

Tangent Data

Parameter	Value	Parameter	Value
Length:	128.597	Course:	N 21° 06' 21.0012" E

Curve Point Data

Description	Station	Northing	Easting
PC:	11+28.597	3907415.104	11494165.01
RP:		3907595.15	11493698.55
PT:	11+75.397	3907459.489	11494179.8

Circular Curve Data

Parameter	Value	Parameter	Value
Delta:	05° 21' 46.3286"	Type:	LEFT
Radius:	500		
Length:	46.8	Tangent:	23.417
Mid-Ord:	0.547	External:	0.548
Chord:	46.783	Course:	N 18° 25' 27.8369" E

Tangent Data

Description	PT Station	Northing	Easting
Start:	11+75.397	3907459.489	11494179.8
End:	13+94.732	3907670.596	11494239.31

Tangent Data

Parameter	Value	Parameter	Value
Length:	219.335	Course:	N 15° 44' 34.6726" E

Curve Point Data

Description	Station	Northing	Easting
PC:	13+94.732	3907670.596	11494239.31
RP:		3908199.675	11492362.45
PT:	16+74.417	3907944.301	11494295.66

Circular Curve Data

Parameter	Value	Parameter	Value
Delta:	08° 13' 04.2502"	Type:	LEFT
Radius:	1950		
Length:	279.686	Tangent:	140.083
Mid-Ord:	5.012	External:	5.025
Chord:	279.446	Course:	N 11° 38' 02.5474" E

Tangent Data

Description	PT Station	Northing	Easting
Start:	16+74.417	3907944.301	11494295.66
End:	18+40.487	3908108.941	11494317.41

Tangent Data

Parameter	Value	Parameter	Value
Length:	166.07	Course:	N 07° 31' 30.4223" E

RIO ROAD SECTION 2

Horizontal Alignment Station and Curve Report

Curve Point Data

Description	Station	Northing	Easting
PC:	10+00.000	3909191.682	11494029.9
RP:		3909050.591	11493447.03
PT:	11+38.270	3909321.149	11493982.23

Circular Curve Data

Parameter	Value	Parameter	Value
Delta:	13° 12' 37.5715"	Type:	LEFT
Radius:	599.7		
Length:	138.27	Tangent:	69.443
Mid-Ord:	3.981	External:	4.007
Chord:	137.964	Course:	N 20° 12' 45.6816" W

Tangent Data

Description	PT Station	Northing	Easting
Start:	11+38.270	3909321.149	11493982.23
End:	13+21.700	3909484.851	11493899.47

Tangent Data

Parameter	Value	Parameter	Value
Length:	183.43	Course:	N 26° 49' 04.4674" W

Curve Point Data

Description	Station	Northing	Easting
PC:	13+21.700	3909484.851	11493899.47
RP:		3909755.68	11494435.21
PT:	14+72.071	3909626.102	11493849.06

Circular Curve Data

Parameter	Value	Parameter	Value
Delta:	14° 21' 07.8194"	Type:	RIGHT
Radius:	600.3		
Length:	150.371	Tangent:	75.581
Mid-Ord:	4.702	External:	4.739
Chord:	149.978	Course:	N 19° 38' 30.5576" W

Tangent Data

Description	PT Station	Northing	Easting
Start:	14+72.071	3909626.102	11493849.06
End:	15+70.619	3909722.327	11493827.79

Tangent Data

Parameter	Value	Parameter	Value
Length:	98.548	Course:	N 12° 27' 56.6479" W

Curve Point Data

Description	Station	Northing	Easting
PC:	15+70.619	3909722.327	11493827.79
RP:		3909633.826	11493427.45
PT:	17+77.375	3909904.743	11493735.19

Circular Curve Data

Parameter	Value	Parameter	Value
Delta:	28° 53' 35.6780"	Type:	LEFT
Radius:	410		
Length:	206.756	Tangent:	105.626
Mid-Ord:	12.964	External:	13.387
Chord:	204.572	Course:	N 26° 54' 44.4869" W

Tangent Data

Description	PT Station	Northing	Easting
Start:	17+77.375	3909904.743	11493735.19
End:	18+39.684	3909951.511	11493694.02

Tangent Data

Parameter	Value	Parameter	Value
Length:	62.309	Course:	N 41° 21' 32.3260" W

COMMONWEALTH OF VIRGINIA
JONATHAN M. SHOWALTER
Lic. No. 0402057151
10/28/2020
PROFESSIONAL ENGINEER

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YOUR VISION ACHIEVED THROUGH OURS.

DATE
10/28/2020
DRAWN BY
J. SHOWALTER
DESIGNED BY
J. SHOWALTER
CHECKED BY
J. HASH
SCALE
N/A

TIMMONS GROUP

ALBEMARLE COUNTY SIDEWALKS
COUNTY OF ALBEMARLE, VIRGINIA
ALIGNMENT & SURVEY DATA SHEET

JOB NO.
33882.005
SHEET NO.
1E

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IFB 2021-12012-35

\\timmons.com\tgfs\300\103\33882-ab_sidewalks\DWG\Sheet\CD\33882C-010 ALIGNMENT DATA SHEET.dwg | Plotted on 10/28/2020 8:14 AM | by Aaron Mabee

AVON STREET EXTENDED SOUTH

Horizontal Alignment Station and Curve Report

Tangent Data

Description	PT Station	Northing	Easting
Start:	10+00.000	3882715.346	11481286.13
End:	10+67.624	3882782.97	11481286.22

Tangent Data

Parameter	Value	Parameter	Value
Length:	67.624	Course:	N 00° 04' 22.5472" E

Curve Point Data

Description	Station	Northing	Easting
PC:	10+67.624	3882782.97	11481286.22
RP:		3882781.697	11482286.22
PT:	10+82.968	3882798.313	11481286.36

Circular Curve Data

Parameter	Value	Parameter	Value
Delta:	00° 52' 44.8896"	Type:	RIGHT
Radius:	1000		
Length:	15.344	Tangent:	7.672
Mid-Ord:	0.029	External:	0.029
Chord:	15.344	Course:	N 00° 30' 44.9920" E

Tangent Data

Description	PT Station	Northing	Easting
Start:	10+82.968	3882798.313	11481286.36
End:	12+18.135	3882933.461	11481288.6

Tangent Data

Parameter	Value	Parameter	Value
Length:	135.167	Course:	N 00° 57' 07.4368" E

Curve Point Data

Description	Station	Northing	Easting
PC:	12+18.135	3882933.461	11481288.6
RP:		3882960.077	11480288.74
PT:	12+36.855	3882952.181	11481288.74

Circular Curve Data

Parameter	Value	Parameter	Value
Delta:	01° 04' 21.3113"	Type:	LEFT
Radius:	1000		
Length:	18.72	Tangent:	9.36
Mid-Ord:	0.044	External:	0.044
Chord:	18.72	Course:	N 00° 24' 56.7812" E

Tangent Data

Description	PT Station	Northing	Easting
Start:	12+36.855	3882952.181	11481288.74
End:	12+50.097	3882965.423	11481288.71

Tangent Data

Parameter	Value	Parameter	Value
Length:	13.242	Course:	N 00° 07' 13.8745" W

Curve Point Data

Description	Station	Northing	Easting
PC:	12+50.097	3882965.423	11481288.71
RP:		3882967.947	11482488.71
PT:	12+91.080	3883006.399	11481289.32

Circular Curve Data

Parameter	Value	Parameter	Value
Delta:	01° 57' 24.4356"	Type:	RIGHT
Radius:	1200		
Length:	40.983	Tangent:	20.493
Mid-Ord:	0.175	External:	0.175
Chord:	40.981	Course:	N 00° 51' 28.3433" E

Tangent Data

Description	PT Station	Northing	Easting
Start:	12+91.080	3883006.399	11481289.32
End:	12+93.363	3883008.68	11481289.4

Tangent Data

Parameter	Value	Parameter	Value
Length:	2.282	Course:	N 01° 50' 10.5611" E

Curve Point Data

Description	Station	Northing	Easting
PC:	12+93.363	3883008.68	11481289.4
RP:		3883047.133	11480090.01
PT:	13+11.621	3883026.933	11481289.84

Circular Curve Data

Parameter	Value	Parameter	Value
Delta:	00° 52' 18.3125"	Type:	LEFT
Radius:	1200		
Length:	18.258	Tangent:	9.129
Mid-Ord:	0.035	External:	0.035
Chord:	18.258	Course:	N 01° 24' 01.4049" E

Tangent Data

Description	PT Station	Northing	Easting
Start:	13+11.621	3883026.933	11481289.84
End:	13+88.003	3883103.305	11481291.13

Tangent Data

Parameter	Value	Parameter	Value
Length:	76.383	Course:	N 00° 57' 52.2486" E

Curve Point Data

Description	Station	Northing	Easting
PC:	13+88.003	3883103.305	11481291.13
RP:		3882934.973	11491289.72
PT:	14+05.305	3883120.604	11481291.44

Circular Curve Data

Parameter	Value	Parameter	Value
Delta:	00° 05' 56.8727"	Type:	RIGHT
Radius:	10000.002		
Length:	17.302	Tangent:	8.651
Mid-Ord:	0.004	External:	0.004
Chord:	17.302	Course:	N 01° 00' 50.6850" E

Tangent Data

Description	PT Station	Northing	Easting
Start:	14+05.305	3883120.604	11481291.44
End:	15+23.138	3883238.417	11481293.62

Tangent Data

Parameter	Value	Parameter	Value
Length:	117.833	Course:	N 01° 03' 49.1213" E

AVON STREET EXTENDED SOUTH (cont'd.)

Horizontal Alignment Station and Curve Report

Curve Point Data

Description	Station	Northing	Easting
PC:	15+23.138	3883238.417	11481293.62
RP:		3883219.854	11482293.45
PT:	15+72.621	3883287.848	11481295.77

Circular Curve Data

Parameter	Value	Parameter	Value
Delta:	02° 50' 06.4366"	Type:	RIGHT
Radius:	1000		
Length:	49.482	Tangent:	24.746
Mid-Ord:	0.306	External:	0.306
Chord:	49.477	Course:	N 02° 28' 52.3396" E

Tangent Data

Description	PT Station	Northing	Easting
Start:	15+72.621	3883287.848	11481295.77
End:	16+11.049	3883326.187	11481298.38

Tangent Data

Parameter	Value	Parameter	Value
Length:	38.428	Course:	N 03° 53' 55.5580" E

Curve Point Data

Description	Station	Northing	Easting
PC:	16+11.049	3883326.187	11481298.38
RP:		3883258.193	11482296.06
PT:	17+22.997	3883437.217	11481312.22

Circular Curve Data

Parameter	Value	Parameter	Value
Delta:	06° 24' 50.8621"	Type:	RIGHT
Radius:	1000		
Length:	111.948	Tangent:	56.032
Mid-Ord:	1.566	External:	1.569
Chord:	111.889	Course:	N 07° 06' 20.9890" E

Tangent Data

Description	PT Station	Northing	Easting
Start:	17+22.997	3883437.217	11481312.22
End:	17+45.225	3883459.086	11481316.2

Tangent Data

Parameter	Value	Parameter	Value
Length:	22.228	Course:	N 10° 18' 46.4200" E

Curve Point Data

Description	Station	Northing	Easting
PC:	17+45.225	3883459.086	11481316.2
RP:		3883364.203	11481837.64
PT:	18+26.644	3883537.758	11481336.86

Circular Curve Data

Parameter	Value	Parameter	Value
Delta:	08° 48' 06.7113"	Type:	RIGHT
Radius:	530		
Length:	81.419	Tangent:	40.79
Mid-Ord:	1.563	External:	1.567
Chord:	81.339	Course:	N 14° 42' 49.7757" E

Tangent Data

Description	PT Station	Northing	Easting
Start:	18+26.644	3883537.758	11481336.86
End:	18+30.679	3883541.57	11481338.18

Tangent Data

Parameter	Value	Parameter	Value
Length:	4.035	Course:	N 19° 06' 53.1313" E

Curve Point Data

Description	Station	Northing	Easting
PC:	18+30.679	3883541.57	11481338.18
RP:		3883148.617	11482472.02
PT:	19+60.624	3883661.809	11481387.29

Circular Curve Data

Parameter	Value	Parameter	Value
Delta:	06° 12' 15.9564"	Type:	RIGHT
Radius:	1200		
Length:	129.945	Tangent:	65.036
Mid-Ord:	1.759	External:	1.761
Chord:	129.882	Course:	N 22° 13' 01.1096" E

Tangent Data

Description	PT Station	Northing	Easting
Start:	19+60.624	3883661.809	11481387.29
End:	19+91.449	3883689.673	11481400.47

Tangent Data

Parameter	Value	Parameter	Value
Length:	30.824	Course:	N 25° 19' 09.0878" E

AVON STREET EXTENDED NORTH

Horizontal Alignment Station and Curve Report

Tangent Data

Description	PT Station	Northing	Easting
Start:	20+00.000	3886805.653	11482915.09
End:	22+55.423	3887036.044	11483025.37

Tangent Data

Parameter	Value	Parameter	Value
Length:	255.423	Course:	N 25° 34' 41.5633" E

Curve Point Data

Description	Station	Northing	Easting
PC:	22+55.423	3887036.044	11483025.37
RP:		3886172.558	11484829.36
PT:	22+74.675	3887053.369	11483033.76

Circular Curve Data

Parameter	Value	Parameter	Value
Delta:	00° 33' 05.5655"	Type:	RIGHT
Radius:	2000		
Length:	19.253	Tangent:	9.626
Mid-Ord:	0.023	External:	0.023
Chord:	19.253	Course:	N 25° 51' 14.3460" E

Tangent Data

Description	PT Station	Northing	Easting
Start:	22+74.675	3887053.369	11483033.76
End:	22+92.690	3887069.543	11483041.7

Tangent Data

Parameter	Value	Parameter	Value
Length:	18.015	Course:	N 26° 07' 47.1287" E

Curve Point Data

Description	Station	Northing	Easting
PC:	22+92.690	3887069.543	11483041.7
RP:		3886849.34	11483490.6
PT:	23+09.130	3887084.181	11483049.18

Circular Curve Data

Parameter	Value	Parameter	Value
Delta:	01° 53' 01.9580"	Type:	RIGHT
Radius:	500		
Length:	16.44	Tangent:	8.221
Mid-Ord:	0.068	External:	0.068
Chord:	16.439	Course:	N 27° 04' 18.1077" E

Tangent Data

Description	PT Station	Northing	Easting
Start:	23+09.130	3887084.181	11483049.18
End:	23+88.952	3887154.65	11483086.67

Tangent Data

Parameter	Value	Parameter	Value
Length:	79.821	Course:	N 28° 00' 49.0867" E

Curve Point Data

Description	Station	Northing	Easting
PC:	23+88.952	3887154.65	11483086.67
RP:		3886638	11484057.79
PT:	24+76.555	3887230.27	11483130.85

Circular Curve Data

Parameter	Value	Parameter	Value
Delta:	04° 33' 46.7898"	Type:	RIGHT
Radius:	1100		
Length:	87.603	Tangent:	43.825
Mid-Ord:	0.872	External:	0.873
Chord:	87.58	Course:	N 30° 17' 42.4816" E

AVON STREET EXTENDED NORTH (cont'd.)

Horizontal Alignment Station and Curve Report

Tangent Data

Description	PT Station	Northing	Easting
Start:	24+76.555	3887230.27	11483130.85
End:	27+02.475	3887420.647	11483252.49

Tangent Data

Parameter	Value	Parameter	Value
Length:	225.92	Course:	N 32° 34' 35.8765" E

Curve Point Data

Description	Station	Northing	Easting
PC:	27+02.475	3887420.647	11483252.49
RP:		3886882.219	11484095.16
PT:	27+10.719	3887427.575	11483256.96

Circular Curve Data

Parameter	Value	Parameter	Value
Delta:	00° 28' 20.4453"	Type:	RIGHT
Radius:	1000		
Length:	8.244	Tangent:	4.122
Mid-Ord:	0.008	External:	0.008
Chord:	8.244	Course:	N 32° 48' 46.0992" E

Tangent Data

Description	PT Station	Northing	Easting
Start:	27+10.719	3887427.575	11483256.96
End:	27+69.513	3887476.857	11483289.02

Tangent Data

Parameter	Value	Parameter	Value
Length:	58.795	Course:	N 33° 02' 56.3218" E

Curve Point Data

Description	Station	Northing	Easting
PC:	27+69.513	3887476.857	11483289.02
RP:		3888022.213	11482450.82
PT:	27+78.084	3887484.061	11483293.67

Circular Curve Data

Parameter	Value	Parameter	Value
Delta:	00° 29' 27.7902"	Type:	LEFT
Radius:	1000		
Length:	8.57	Tangent:	4.285
Mid-Ord:	0.009	External:	0.009
Chord:	8.57	Course:	N 32° 48' 12.4267" E

Tangent Data

Description	PT Station	Northing	Easting
Start:	27+78.084	3887484.061	11483293.67
End:	31+89.751	3887831.034	11483515.2

Tangent Data

Parameter	Value	Parameter	Value
Length:	411.667	Course:	N 32° 33' 28.5316" E

Curve Point Data

Description	Station	Northing	Easting
PC:	31+89.751	3887831.034	11483515.2
RP:		3886754.73	11485200.9
PT:	32+00.224	3887839.846	11483520.86

Circular Curve Data

Parameter	Value	Parameter	Value
Delta:	00° 18' 00.0660"	Type:	RIGHT
Radius:	2000		
Length:	10.473	Tangent:	5.236
Mid-Ord:	0.007	External:	0.007
Chord:	10.473	Course:	N 32° 42' 28.5646" E

Tangent Data

Description	PT Station	Northing	Easting
Start:	32+00.224	3887839.846	11483520.86
End:	32+91.979	3887916.922	11483570.65

Tangent Data

Parameter	Value	Parameter	Value
Length:	91.755	Course:	N 32° 51' 28.5975" E

Curve Point Data

Description	Station	Northing	Easting
PC:	32+91.979	3887916.922	11483570.65
RP:		3889002.038	11481890.61
PT:	33+03.215	3887926.378	11483576.72

Circular Curve Data

Parameter	Value	Parameter	Value
Delta:	00° 19' 18.8147"	Type:	LEFT
Radius:	2000		
Length:	11.236	Tangent:	5.618
Mid-Ord:	0.008	External:	0.008
Chord:	11.236	Course:	N 32° 41' 49.1902" E

AVON STREET EXTENDED NORTH (cont'd.)

Horizontal Alignment Station and Curve Report

Tangent Data

Description	PT Station	Northing	Easting
Start:	33+03.215	3887926.378	11483576.72
End:	39+62.502	3888482.192	11483931.3

Tangent Data

Parameter	Value	Parameter	Value
Length:	659.287	Course:	N 32° 32' 09.7828" E

Curve Point Data

Description	Station	Northing	Easting
PC:	39+62.502	3888482.192	11483931.3
RP:		3885793.017	11488146.61
PT:	39+64.739	3888484.077	11483932.5

Circular Curve Data

Parameter	Value	Parameter	Value
Delta:	00° 01' 32.2797"	Type:	RIGHT
Radius:	5000.046		
Length:	2.237	Tangent:	1.118
Mid-Ord:	0	External:	0
Chord:	2.237	Course:	N 32° 32' 55.9226" E

Tangent Data

Description	PT Station	Northing	Easting
Start:	39+64.739	3888484.077	11483932.5
End:	40+58.428	3888563.04	11483982.93

Tangent Data

Parameter	Value	Parameter	Value
Length:	93.689	Course:	N 32° 33' 42.0626" E

Curve Point Data

Description	Station	Northing	Easting
PC:	40+58.428	3888563.04	11483982.93
RP:		3891254.073	11479768.87
PT:	40+61.833	3888565.91	11483984.76

Circular Curve Data

Parameter	Value	Parameter	Value
Delta:	00° 02' 20.4401"	Type:	LEFT
Radius:	4999.995		
Length:	3.404	Tangent:	1.702
Mid-Ord:	0	External:	0
Chord:	3.404	Course:	N 32° 32' 31.8426" E

Tangent Data

Description	PT Station	Northing	Easting
Start:	40+61.833	3888565.91	11483984.76
End:	44+49.906	3888893.125	11484193.4

Tangent Data

Parameter	Value	Parameter	Value
Length:	388.074	Course:	N 32° 31' 21.6225" E

Curve Point Data

Description	Station	Northing	Easting
PC:	44+49.906	3888893.125	11484193.4
RP:		3888355.492	11485036.58
PT:	44+93.868	3888929.661	11484217.84

Circular Curve Data

Parameter	Value	Parameter	Value
Delta:	02° 31' 07.8154"	Type:	RIGHT
Radius:	1000		
Length:	43.962	Tangent:	21.985
Mid-Ord:	0.242	External:	0.242
Chord:	43.958	Course:	N 33° 46' 55.5302" E

Tangent Data

Description	PT Station	Northing	Easting
Start:	44+93.868	3888929.661	11484217.84
End:	46+51.842	3889059.001	11484308.55

Tangent Data

Parameter	Value	Parameter	Value
Length:	157.974	Course:	N 35° 02' 29.4379" E

Curve Point Data

Description	Station	Northing	Easting
PC:	46+51.842	3889059.001	11484308.55
RP:		3890437.008	11482343.58
PT:	47+37.227	3889129.765	11484356.32

Circular Curve Data

Parameter	Value	Parameter	Value
Delta:	02° 02' 18.2209"	Type:	LEFT
Radius:	2400		
Length:	85.384	Tangent:	42.697
Mid-Ord:	0.38	External:	0.38
Chord:	85.38	Course:	N 34° 01' 20.3275" E

Tangent Data

Description	PT Station	Northing	Easting
Start:	47+37.227	3889129.765	11484356.32
End:	48+28.482	3889206.296	11484406.02

Tangent Data

Parameter	Value	Parameter	Value
Length:	91.256	Course:	N 33° 00' 11.2171" E

COMMONWEALTH OF VIRGINIA
JONATHAN M. SHOWALTER
Lic. No. 0402057151
10/28/2020
PROFESSIONAL ENGINEER

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YOUR VISION ACHIEVED THROUGH OURS.

TIMMONS GROUP

ALBEMARLE COUNTY SIDEWALKS

COUNTY OF ALBEMARLE, VIRGINIA

ALIGNMENT & SURVEY DATA SHEET

DATE
10/28/2020
DRAWN BY
J. SHOWALTER
DESIGNED BY
J. SHOWALTER
CHECKED BY
J. HASH
SCALE
N/A
JOB NO.
33882.005
SHEET NO.
1F

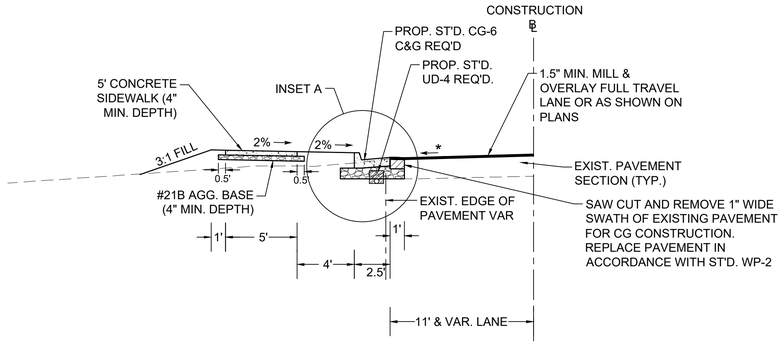
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RIO ROAD SECTION 1

SIDEWALK AND BUFFER WITH PROPOSED CG-6 (LEFT SIDE)

STA. 12+59.75 TO STA. 17+72.68



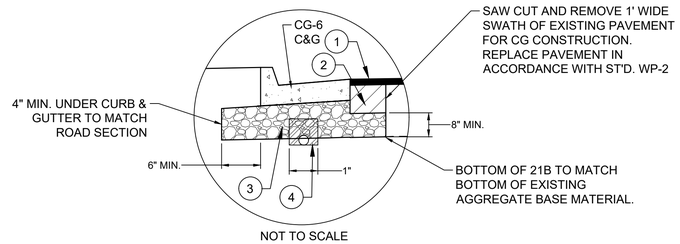
RIO ROAD SECTION 1

SIDEWALK AND BUFFER WITH EXISTING CG-6 (LEFT SIDE)

STA. 10+17.67 TO STA. 12+59.75

POSTED SPEED: 35 MPH

INSET "A"



NOT TO SCALE

1. 1.5" ASPHALT SURFACE COURSE (VDOT SM-12.5D)
2. 6" MIN. ASPHALT BASE COURSE (VDOT BM-25.0A)
3. 8" AGGREGATE BASE MATERIAL (VDOT TYPE 1 NO. 21B)
4. ST'D. UD-4 UNDERDRAIN (AS SHOWN ON PLANS)

5' CONCRETE SIDEWALK TO BE 4" THICK HYDRAULIC CEMENT CONCRETE (AS SHOWN ON PLANS AND TYPICAL SECTIONS) WITH 4" AGGREGATE BASE MATERIAL (TYPE 1 NO. 21B) (AS SHOWN ON PLANS AND TYPICAL SECTIONS)

COMMONWEALTH OF VIRGINIA
JONATHAN M. SHOWALTER
Lic. No. 0402057151
10/28/2020
PROFESSIONAL ENGINEER

THIS DRAWING PREPARED AT THE
CHARLOTTESVILLE OFFICE
608 Preston Avenue, Suite 200 | Charlottesville, VA 22903
TEL. 434.295.5624 FAX 434.295.8317 www.timmons.com

YOUR VISION ACHIEVED THROUGH OURS.

TIMMONS GROUP

DATE

DATE: 10/28/2020
DRAWN BY: J. SHOWALTER
DESIGNED BY: J. SHOWALTER
CHECKED BY: J. HASH
SCALE: N/A

ALBEMARLE COUNTY SIDEWALKS
COUNTY OF ALBEMARLE, VIRGINIA

TYPICAL SECTIONS - RIO ROAD SECTION 1

JOB NO. 33882.005
SHEET NO. 2A

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UPC NO. 104159

IFB 2021-12012-35

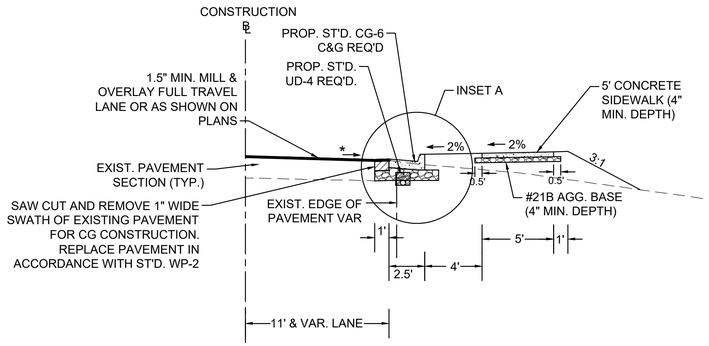
\\timmons.com\ghi\300\103\33882-alb. sidewalk\DWG\Sheet\D\33882C-C2.0-SECTIONS .dwg | Plotted on 10/28/2020 8:15 AM | by Aaron Malave

POSTED SPEED: 35 MPH

RIO ROAD SECTION 2

SIDEWALK AND BUFFER WITH PROPOSED CG-6 (RIGHT SIDE)

STA. 10+00 TO STA. 16+55.00

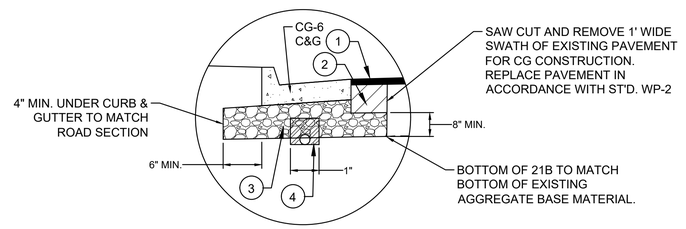


RIO ROAD SECTION 2

SIDEWALK AND BUFFER WITH EXISTING CG-6 (RIGHT SIDE)

STA. 17+08.00 TO STA. 18+54.40

INSET "A"



NOT TO SCALE

1. 1.5" ASPHALT SURFACE COURSE (VDOT SM-12.5D)
2. 6" MIN. ASPHALT BASE COURSE (VDOT BM-25.0A)
3. 8" AGGREGATE BASE MATERIAL (VDOT TYPE 1 NO. 21B)
4. ST'D. UD-4 UNDERDRAIN (AS SHOWN ON PLANS)

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COMMONWEALTH OF VIRGINIA
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CHECKED BY: J. HASH
SCALE: N/A

TIMMONS GROUP

ALBEMARLE COUNTY SIDEWALKS
COUNTY OF ALBEMARLE, VIRGINIA

TYPICAL SECTIONS - RIO ROAD SECTION 2

JOB NO. 33882.005
SHEET NO. 2B

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UPC NO. 104159

\\timmons.com\ghi\300\103\33882-alb. sidewalks\DWG\Sheet\C\33882C-C2.0-SECTIONS.dwg | Plotted on 10/28/2020 8:15 AM | by Aaron Malave

IFB 2021-12012-35

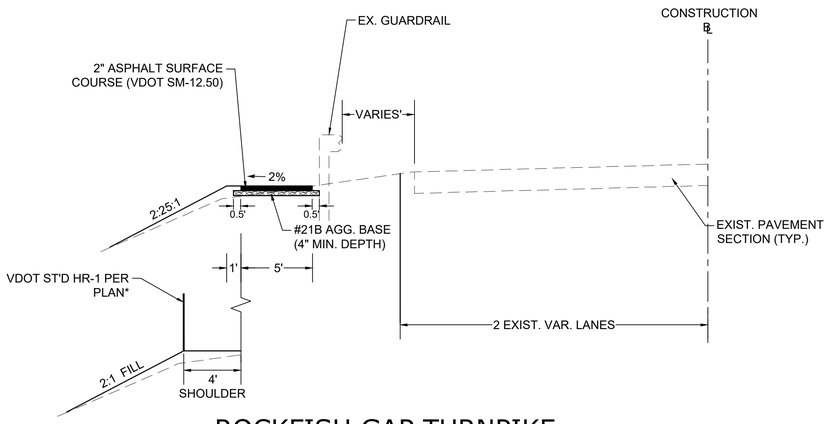
POSTED SPEED: 45 MPH

ROCKFISH GAP TURNPIKE

EX. GUARDRAIL WITH PROPOSED ASPHALT PATH BEHIND (LEFT SIDE)

ALONG CORY FARM ROAD

STA. 10+00.00 TO STA. 14+15.00

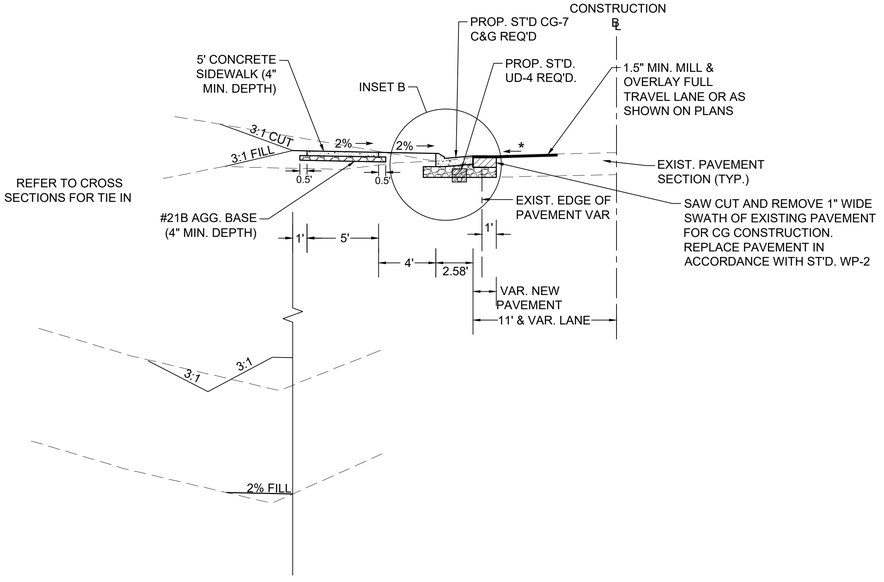


ROCKFISH GAP TURNPIKE

SIDEWALK AND BUFFER WITH PROPOSED CG-7 (LEFT SIDE)

STA. 14+15.00 TO STA. 18+20.00

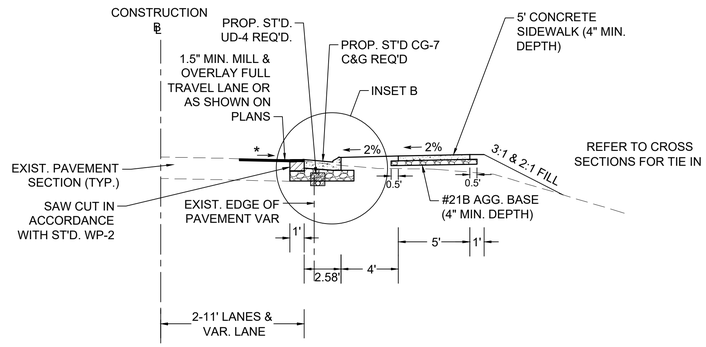
STA. 18+50.00 TO STA. 22+20.00



ROCKFISH GAP TURNPIKE

SIDEWALK AND BUFFER WITH PROPOSED CG-7 (RIGHT SIDE)

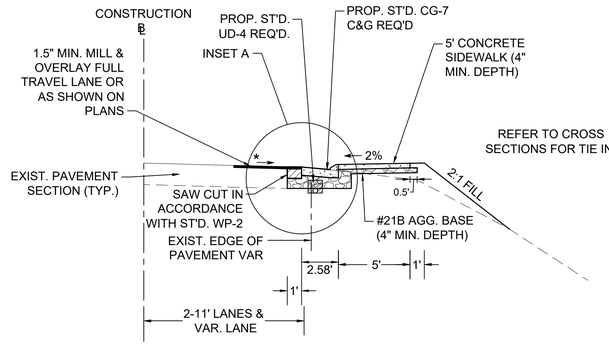
STA. 18+50.00 TO STA. 20+25.00



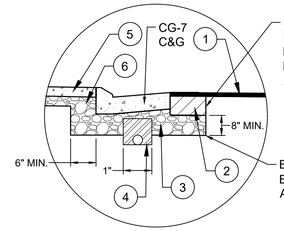
ROCKFISH GAP TURNPIKE

SIDEWALK WITH PROPOSED CG-7 (RIGHT SIDE)

STA. 20+45.00 TO STA. 21+95.00



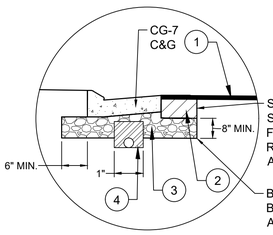
INSET "A"



NOT TO SCALE

1. 1.5" ASPHALT SURFACE COURSE (VDOT SM-12.5D)
2. 6" MIN. ASPHALT BASE COURSE (VDOT BM-25.0A)
3. 8" AGGREGATE BASE MATERIAL (VDOT TYPE 1 NO. 21B)
4. ST'D. UD-4 UNDERDRAIN (AS SHOWN ON PLANS)
5. 4" HYDRAULIC CEMENT CONCRETE SIDEWALK (AS SHOWN ON PLANS AND TYPICAL SECTIONS)
6. 4" AGGREGATE BASE MATERIAL (TYPE 1 NO. 21B) (AS SHOWN ON PLANS AND TYPICAL SECTIONS)

INSET "B"



NOT TO SCALE

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* MATCH EXISTING SLOPE UNLESS OTHERWISE DENOTED ON CROSS SECTIONS OR INSTRUCTED BY ENGINEER. MILL AND OVERLAY EXISTING PAVEMENT AS NECESSARY TO ACHIEVE REQUIRED CROSS SLOPE.

COMMONWEALTH OF VIRGINIA
JONATHAN M. SHOWALTER
Lic. No. 0402057151
10/28/2020
PROFESSIONAL ENGINEER

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10/28/2020
DRAWN BY
J. SHOWALTER
DESIGNED BY
J. SHOWALTER
CHECKED BY
J. HASH
SCALE
N/A

TIMMONS GROUP

ALBEMARLE COUNTY SIDEWALKS

COUNTY OF ALBEMARLE, VIRGINIA

TYPICAL SECTIONS - ROCKFISH GAP TURNPIKE

JOB NO. 33882.005

SHEET NO. 2C

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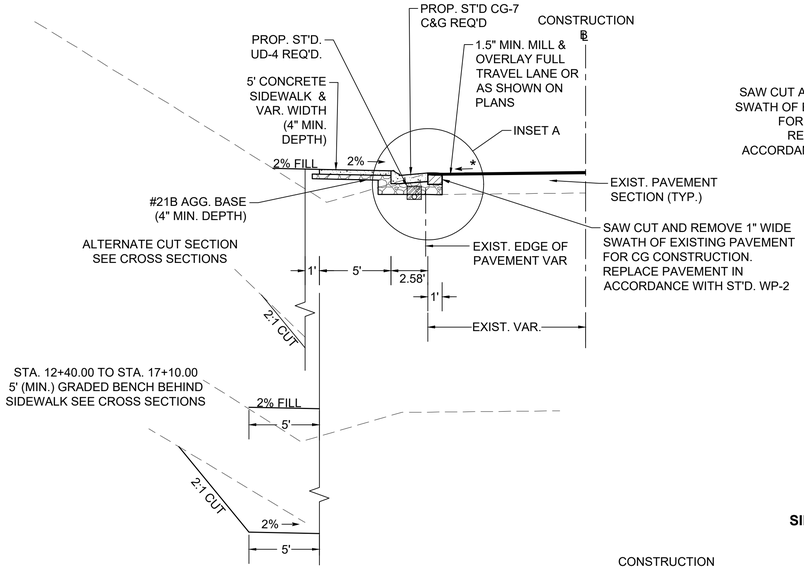
UPC NO. 104159

IFB 2021-12012-35

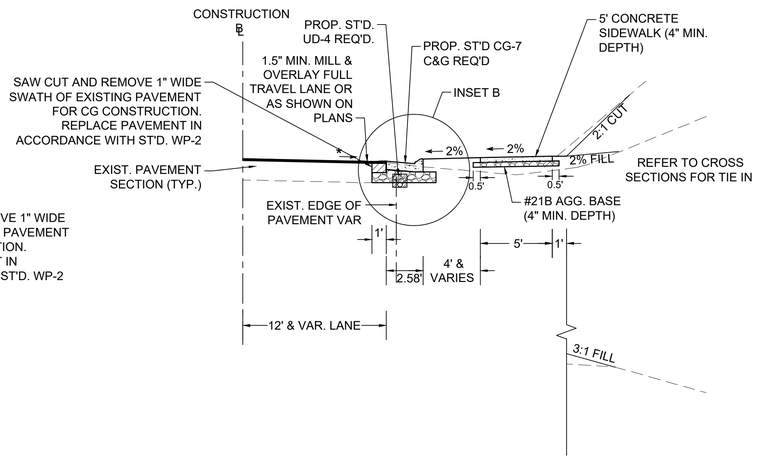
\\timmons.com\gfx\300\103\33882-ab. sidewalks\DWG\Sheet\CD\33882C-C2.0-SECTIONS .dwg | Plotted on 10/28/2020 8:15 AM | by Aaron Mabee

POSTED SPEED: 45 MPH

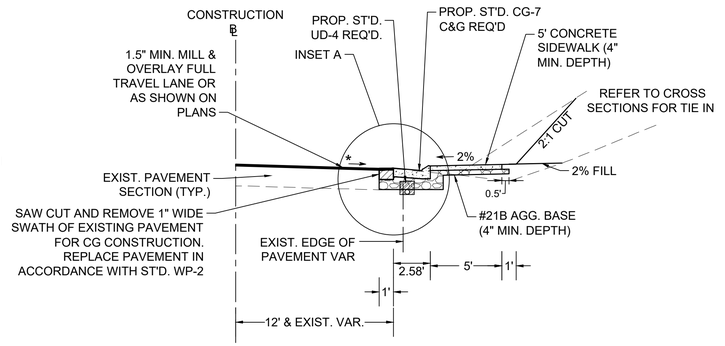
AVON STREET EXTENDED
SIDEWALK WITH PROPOSED CG-7 (LEFT SIDE)
STA. 10+00.00 TO STA.18+25.00



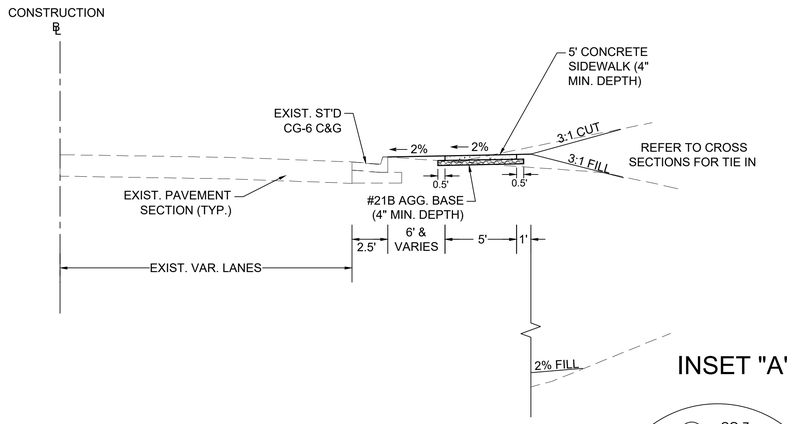
AVON STREET EXTENDED
SIDEWALK AND BUFFER WITH PROPOSED CG-7 (RIGHT SIDE)
STA. 23+50.00 TO STA. 28+08.00
STA. 33+20.00 TO STA 43+95.00



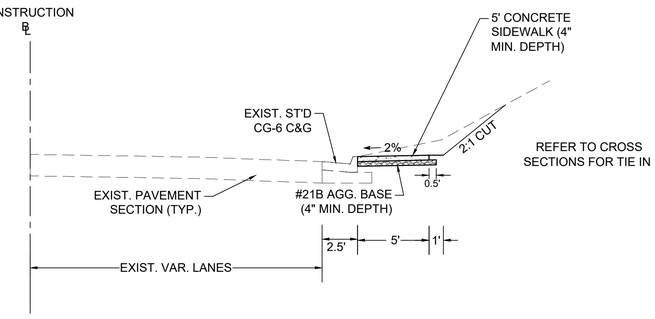
AVON STREET EXTENDED
SIDEWALK WITH PROPOSED CG-7 (RIGHT SIDE)
STA. 21+50.00 TO STA. 23+50.00
STA. 28+30.00 TO STA. 29+75.00



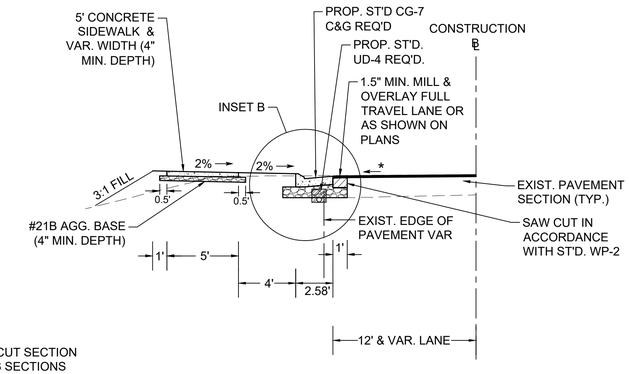
AVON STREET EXTENDED
SIDEWALK, AND BUFFER WITH EXISTING CG-6 (RIGHT SIDE)
STA. 43+95.00 TO STA. 48+30.00



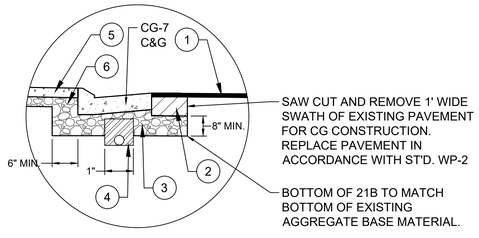
AVON STREET EXTENDED
SIDEWALK WITH EXISTING CG-6 (RIGHT SIDE)
STA. 20+00.00 TO 21+50.00



AVON STREET EXTENDED
SIDEWALK AND BUFFER WITH PROPOSED CG-7 (LEFT SIDE)
STA. 18+25.00 TO STA. 19+80.00



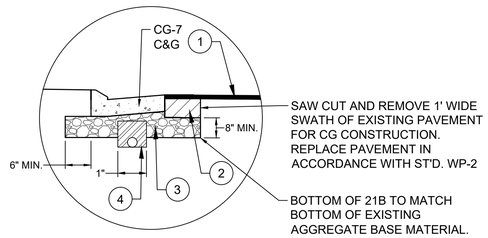
INSET "A"



NOT TO SCALE

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INSET "B"



NOT TO SCALE

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COMMONWEALTH OF VIRGINIA
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DESIGNED BY
J. SHOWALTER
CHECKED BY
J. HASH
SCALE
N/A

TIMMONS GROUP

ALBEMARLE COUNTY SIDEWALKS
COUNTY OF ALBEMARLE, VIRGINIA
TYPICAL SECTIONS - AVON STREET EXTENDED

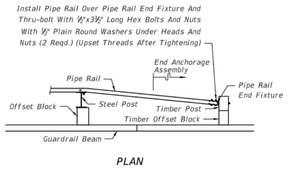
JOB NO. 33882.005
SHEET NO. 2D

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IFB 2021-12012-35

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PLAN

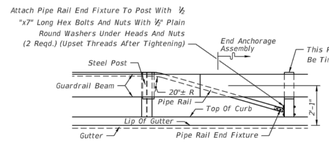
NOTES

1. Pipe Rail is required on steel guardrail posts when the front of sidewalks or shared use paths are located 4' or less from behind the back of the post. Pipe rail shall terminate at the first post of the end anchorage assembly. Begin and end the Pipe Rail in accordance with the PIPE RAIL END FIXTURE detail.

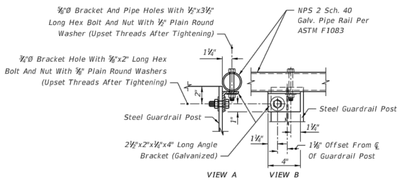
   Refer to Sheet 1, GENERAL NOTE 6 for guardrail end anchorage assembly requirements and GENERAL NOTE 16. b. for offset block requirements.

2. When guardrail with timber posts are located with the back of post 4' or less from the near front of sidewalks or shared use paths, the bolt ends will require one of the following treatments:

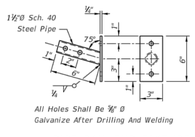
   a. Trim back flush with the face of nut and metalize or
   b. Use post bolts 15" in length with washers and nuts counter sunk into sinks 1" to 1½" deep or
   c. Use post bolts 15" in length with sleeve nuts and washers.



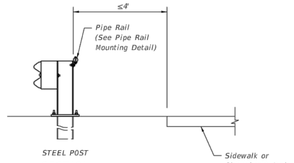
ELEVATION



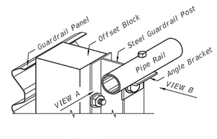
PIPE RAIL MOUNTING



PIPE RAIL END FIXTURE



SECTION



PICTORIAL

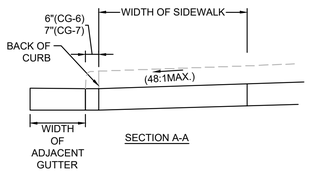
FOR LOCATIONS USED BY PEDESTRIANS OR BICYCLISTS

PEDESTRIAN SAFETY TREATMENTS

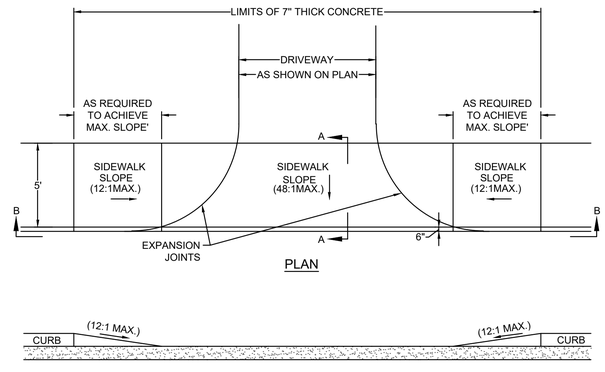
PIPE RAIL ON BACK OF GUARDRAIL DETAIL

No Scale

NOTES:
1. ALL CONCRETE TO BE CLASS A-3 (H.E.S)



SECTION A-A



PLAN

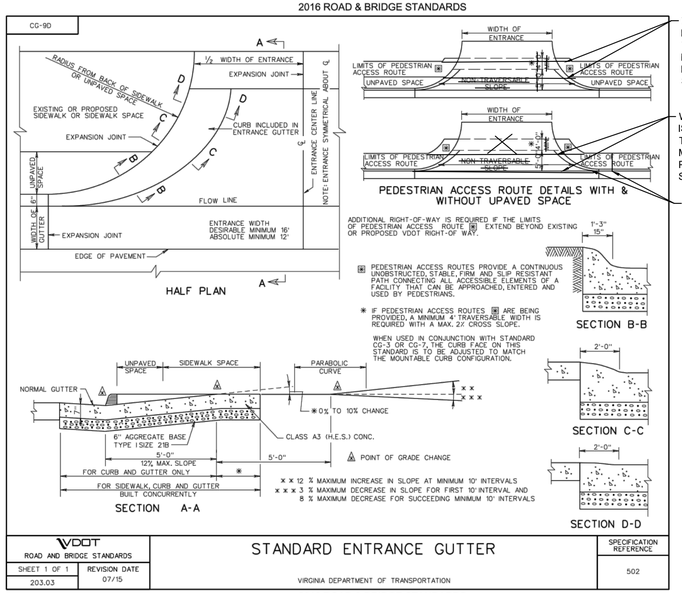
SECTION B-B

VDOT MODIFIED CG-9D

No Scale

2016 ROAD & BRIDGE STANDARDS

CG-9D



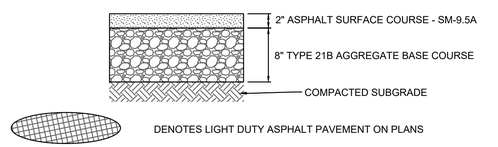
WHEN 4' BUFFER STRIP IS PROVIDED 5' WIDE TRAVERSABLE AREA AT MAX. GRADE OF 2% TO BE PROVIDED INLINE WITH SIDEWALK.

WHEN NO 4' BUFFER STRIP IS PROVIDED 5' WIDE TRAVERSABLE AREA AT MAX. GRADE OF 2% TO BE PROVIDED INLINE WITH SIDEWALK.

WHEN NO 4' BUFFER STRIP IS PROVIDED WIPE DOWN CURB AND SIDEWALK AS NECESSARY AT MAX SLOPE OF 8% SO THAT SECTION D IS ACHIEVED FOR 5' WIDE TRAVERSABLE ARE INLINE WITH SIDEWALK.

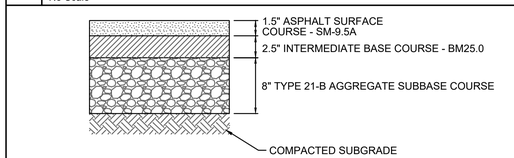
VDOT ROAD AND BRIDGE STANDARDS	STANDARD ENTRANCE GUTTER	SPECIFICATION REFERENCE
SHEET 1 OF 1	VIRGINIA DEPARTMENT OF TRANSPORTATION	502
203.03	REVISION DATE 07/15	

2016 ROAD & BRIDGE STANDARDS



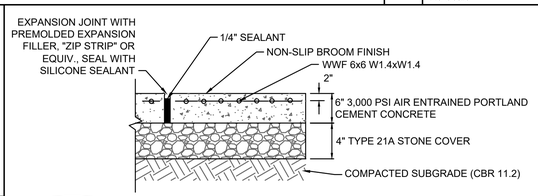
LIGHT DUTY DRIVEWAY ASPHALT PAVEMENT SECTION

No Scale



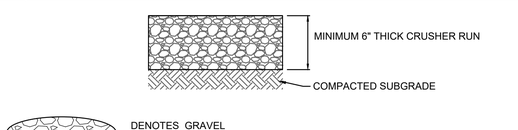
HEAVY DUTY DRIVEWAY ASPHALT PAVEMENT SECTION

No Scale



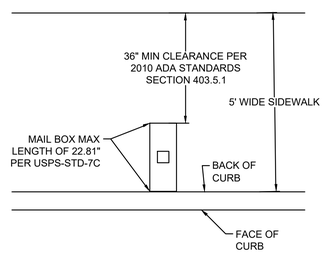
HEAVY DUTY CONCRETE SECTION

No Scale



GRAVEL DRIVEWAY SECTION

No Scale



MAILBOX RELOCATION DETAIL SIDEWALK WITH NO BUFFER STRIP

No Scale

UPC NO. 104159

IFB 2021-12012-35

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COMMONWEALTH OF VIRGINIA
Jonathan M. Showalter
JONATHAN M. SHOWALTER
Lic. No. 0402057151
10/28/2020
PROFESSIONAL ENGINEER

THIS DRAWING PREPARED AT THE
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YOUR VISION ACHIEVED THROUGH OURS.

DATE
10/28/2020
DRAWN BY
J. SHOWALTER
DESIGNED BY
J. SHOWALTER
CHECKED BY
J. HASH
SCALE
N/A

TIMMONS GROUP

ALBEMARLE COUNTY SIDEWALKS
COUNTY OF ALBEMARLE, VIRGINIA
NOTES & DETAILS

JOB NO.
33882.005
SHEET NO.
2E(1)

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GENERAL NOTES

1. THIS PROJECT TO BE CONSTRUCTED IN ACCORDANCE WITH CURRENT VDOT SPECS AND STANDARDS INCLUDING THE VDOT *ROAD AND BRIDGE SPECIFICATIONS* DATED 2016, *ROAD AND BRIDGE STANDARDS* DATED 2016, *WORK AREA PROTECTION MANUAL* DATED 2011 (REVISED 2019) AND AS AMENDED BY CONTRACT PROVISIONS AND THE COMPLETE PAPER COPY OF THE PLAN ASSEMBLY.
2. THE ALBEMARLE COUNTY ENGINEERING OFFICE SHALL BE NOTIFIED 24 HOURS IN ADVANCE OF ANY PLANS TO BEGIN CLEARING AND GRADING OPERATIONS.
3. CONTRACTOR SHALL CALL "MISS UTILITY" 48 HOURS PRIOR TO THE START OF EXCAVATION. CONTRACTOR SHALL VERIFY LOCATION AND ELEVATION OF ALL UNDERGROUND UTILITIES SHOWN ON PLANS IN AREA OF CONSTRUCTION PRIOR TO STARTING WORK. CONTACT THE ENGINEER IMMEDIATELY IF LOCATION OR ELEVATION IS DIFFERENT FROM THAT SHOWN ON THE PLAN, IF THERE APPEARS TO BE A CONFLICT AND UPON DISCOVERY OF ANY UTILITY NOT SHOWN ON PLAN, TO MISS THE UTILITY CALL "MISS UTILITY" OF CENTRAL VIRGINIA: 1-800-552-7001 (TOLL FREE).
4. CONTRACTOR SHALL ACQUIRE ANY AND ALL NECESSARY CONSTRUCTION PERMITS, AND FURNISH COPIES TO THE COUNTY AND ENGINEER PRIOR TO COMMENCING CONSTRUCTION ACTIVITY.
5. ALL WORK SHALL BE SUBJECT TO INSPECTION BY DESIGNATED COUNTY OFFICIALS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR NOTIFICATION OF THE INSPECTOR 48 HOURS PRIOR TO THE START OF WORK.
6. HORIZONTAL DATUM IS BASED ON NAD83 (NA2011), VIRGINIA STATE GRID, SOUTH ZONE. VERTICAL DATUM IS BASED ON NAVD 88. DATUM ESTABLISHED THROUGH LEICA SmartNet.
7. ALL DIMENSIONS ARE TO FACE OF CURB, UNLESS OTHERWISE NOTED ON PLANS.
8. PERMIT TO WORK INSIDE VDOT RIGHT OF WAY OR TIE TO EXISTING VDOT ROAD SHALL BE OBTAINED BY CONTRACTOR FROM VDOT RESIDENT ENGINEER PRIOR TO CONSTRUCTION.
9. ANY BORROW MATERIAL SHALL HAVE A MINIMUM CBR VALUE OF TEN (10) UNLESS OTHERWISE DENOTED.
10. IN ACCORDANCE WITH HANDICAP ACCESSIBILITY REQUIREMENTS, ALL APPLICABLE CODES AND REQUIREMENTS FOR ACCESSIBILITY FOR DISABLED PERSONS SHALL BE STRICTLY COMPLIED WITH.
11. WHERE ANY EXISTING PAVEMENT (SHOULDER OR TRAVEL LANE) IS PROPOSED TO BE MODIFIED IN ANY WAY, PROPER RECONSTRUCTION AND/OR OVERLAY SHALL BE DONE. THIS IS TO PROVIDE A SMOOTH SURFACE WITHOUT TRANSITIONAL ROUGHNESS.
12. VIDEO INSPECTION OF PROPOSED UNDERDRAIN SHALL BE CONDUCTED PRIOR TO PLACEMENT OF CURB & GUTTER AND PRIOR TO ACCEPTANCE IN ACCORDANCE WITH VDOT SPECIFICATIONS. CONTRACTOR SHALL BE RESPONSIBLE FOR PERFORMING VIDEO INSPECTION.
16. CONSTRUCTION STAKING SHALL BE DONE ONLY BY A PROFESSIONAL ENGINEER OR LAND SURVEYOR REGISTERED IN THE COMMONWEALTH OF VIRGINIA. THE ENGINEER/SURVEYOR EMPLOYED BY THE CONTRACTOR SHALL BE RESPONSIBLE FOR PREPARATION OF A DETAILED STAKING PLAN AND HAVING THAT PLAN REVIEWED AND APPROVED PRIOR TO START OF WORK BY THE ENGINEER.
17. THE CONTRACTOR SHALL BE REQUIRED TO PROVIDE ADEQUATE AND POSITIVE SITE DRAINAGE THROUGHOUT CONSTRUCTION. ANY SUBGRADE SOILS WHICH HAVE BEEN WEAKENED DUE TO INADEQUATE DRAINAGE, SATURATION AND/OR DISTURBANCE BY CONSTRUCTION SHALL BE UNDER-CUT AND REPLACED WITH COMPACTED STRUCTURAL FILL AT NO ADDITIONAL COST TO THE OWNER.
18. WHENEVER THE CONTRACTOR'S OPERATIONS AFFECT VEHICULAR OR PEDESTRIAN TRAFFIC, THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE INSTALLATION AND MAINTENANCE OF ANY AND ALL SAFETY CONTROL DEVICES IN ACCORDANCE WITH THE VDOT WORK AREA PROTECTION MANUAL AND AS DEEMED NECESSARY BY VDOT AND THE ENGINEER. THE COSTS FOR SUCH ITEMS SHALL BE INCLUDED IN THE CONTRACTOR'S LUMP SUM PRICE.
19. ALL SIGNS, MAILBOXES AND MARKINGS IN CONFLICT WITH ROADWAY CONSTRUCTION SHALL BE REMOVED AND RESET. ANY SIGNS AND OR MARKINGS NOT RESET SHALL REMAIN PROPERTY OF VDOT. THE COSTS FOR SUCH ITEMS SHALL BE INCLUDED IN THE CONTRACTOR'S LUMP SUM BID.
20. NO LANDSCAPING OF ANY TYPE SHALL BE PLACED WITHIN A THREE FOOT RADIUS OF ANY FIRE HYDRANT. LANDSCAPING IN THE AREA OF FIRE HYDRANTS SHALL BE OF THE TYPE THAT WILL NOT ENCROACH ON THE REQUIRED THREE FOOT CLEAR RADIUS ON MATURITY OF GROWTH.
21. AT THE END OF EACH WORK DAY, THE CONTRACTOR SHALL ENSURE A MINIMUM 6:1 PAVEMENT WEDGE EXISTS AT THE EDGE OF ANY MILLED OR SAW-CUT PAVEMENT EDGES. THE EDGE SHALL BE DELINEATED BY GROUP II CHANNELIZING DEVICES IN ACCORDANCE WITH THE VDOT WORK AREA PROTECTION MANUAL.
22. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING A LAND DISTURBANCE PERMIT AND A VDOT LAND USE PERMIT FROM THE COUNTY AND VDOT RESPECTIVELY PRIOR TO ORDERING MATERIALS OR COMMENCING WORK.
23. ST'D. RM-1 RIGHT OF WAY MONUMENTS SHALL BE SET BY THE CONTRACTOR AT ALL PROPOSED RIGHT OF WAY CORNERS OR RIGHT OF WAY BREAKS UNLESS OTHERWISE DENOTED.
24. ST'D. PM-8 AND PM-9 PLOWABLE MARKERS SHALL BE INSTALLED IN ALL APPLICABLE LOCATIONS ALONG PROPOSED ROAD IMPROVEMENTS ON ALL PRIMARY ROADS UNLESS OTHERWISE DENOTED.
25. CONTRACTOR SHALL VERIFY THAT ALL EXISTING GUARD RAIL THAT SHALL REMAIN IN SERVICE WITHIN PROJECT LIMITS MEET CURRENT VDOT STANDARDS. CONTRACTOR TO CONTACT VDOT TRAFFIC AND SAFETY PERSONNEL AT TIME OF CONSTRUCTION TO REACH ADHERENCE.
26. THE CONTRACTOR SHALL ENSURE ALL PROPOSED MANHOLES LOCATED IN PAVEMENT AND/OR SIDEWALK HAVE NON-SKID STEEL PLATES TOPS AND ARE SECURED WITH LOCK DOWN MANHOLE SECURITY COVERS.
27. CONTRACTOR TO HAND DIG EXCAVATION WHEN CLOSE TO EX. UTILITY LINES TO ENSURE EX. UTILITY LINES ARE NOT DAMAGED DURING CONSTRUCTION.
28. PRIOR TO ANY CONSTRUCTION, THE CONTRACTOR SHALL CONSULT THE ENGINEER AND VERIFY THE APPROVAL OF THE PLANS BY ALL FEDERAL, STATE AND LOCAL AGENCIES.
29. VDOT IS TO RECEIVE WRITTEN NOTIFICATION 48 HOURS PRIOR TO COMMENCING WITH INITIAL CONSTRUCTION ACTIVITIES.
30. UPON DISCOVERY OF SOILS THAT ARE UNSUITABLE FOR FOUNDATIONS, SUBGRADES, OR OTHER ROADWAY CONSTRUCTION PURPOSES, THE CONTRACTOR SHALL IMMEDIATELY CONTACT VDOT. THESE AREAS SHALL BE EXCAVATED BELOW PLAN GRADE AS DIRECTED BY VDOT, BACKFILLED WITH SUITABLE MATERIAL AND COMPACTED IN ACCORDANCE WITH CURRENT.
31. ALL ENTRANCES ARE TO BE DESIGNED AND CONSTRUCTED IN ACCORDANCE WITH CURRENT VDOT STANDARDS.
32. THE CONTRACTOR SHALL VERIFY THE ELEVATIONS OF ALL POINTS OF CONNECTION OR PROPOSED WORK TO EXISTING CURBS, PAVEMENT, SIDEWALK, SANITARY LINES, WATERLINES, ETC, PRIOR TO CONSTRUCTION.
33. CONTRACTOR SHALL VERIFY LOCATION AND ELEVATION OF ALL UNDERGROUND UTILITIES SHOWN ON PLANS IN AREAS OF CONSTRUCTION PRIOR TO STARTING WORK. CONTACT ENGINEER IMMEDIATELY IF LOCATION OR ELEVATION IS DIFFERENT FROM THAT SHOWN ON PLAN. IF THERE APPEARS TO BE A CONFLICT, AND/OR UPON DISCOVERY OF ANY UTILITY NOT SHOWN ON THIS PLAN, CALL MISS UTILITY OF CENTRAL VIRGINIA AT 1-800-552-7001. THE OWNER SHALL BE RESPONSIBLE FOR THE RELOCATION OF ANY UTILITY WITHIN EXISTING AND/OR PROPOSED RIGHT-OF-WAY REQUIRED BY THE DEVELOPMENT.
34. CASING SLEEVES SHALL BE PLACED AT ALL DRIVEWAY CROSSINGS FOR GAS, POWER, TELEPHONE AND CABLE TV SERVICE TRUNK LINES.
35. THE INSTALLATION OF SEWER, WATER, AND GAS MAINS (INCLUDING SERVICE LATERALS AND SLEEVES) SHALL BE COMPLETED PRIOR TO THE PLACEMENT OF AGGREGATE BASE COURSE.
36. VDOT & ALBEMARLE COUNTY APPROVAL OF CONSTRUCTION PLANS DOES NOT PRECLUDE THE RIGHT TO REQUIRE ADDITIONAL FACILITIES AS DEEMED NECESSARY .
37. VDOT SHALL HAVE APPROVED THE AGGREGATE BASE COURSE(S) FOR DEPTH, TEMPLATE AND PERFORMED THE REQUIRED FIELD INSPECTION (PROOF ROLL) PRIOR TO PLACEMENT OF ANY SURFACE COURSE(S). CONTACT THE OWNER FOR INSPECTION FOR THE AGGREGATE BASE COURSE(S) 48 HOURS PRIOR TO APPLICATION OF THE SURFACE COURSE(S).
38. A PRIME COAT SEAL BETWEEN THE AGGREGATE BASE AND BITUMINOUS CONCRETE WILL BE REQUIRED AT THE RATE OF 0.30 GALLONS PER SQUARE YARD (REC-250 PRIME COAT) PER VDOT STANDARDS AND SPECIFICATIONS.
39. THE SCHEDULING OF AGGREGATE BASE INSTALLATION AND SUBSEQUENT PAVING ACTIVITIES SHALL ACCOMMODATE FORECAST WEATHER CONDITIONS PER SECTION 315 OF THE ROAD AND BRIDGE SPECIFICATIONS.
40. A GEOTECHNICAL ENGINEER IS TO ASCERTAIN CAUSE AND CERTIFY RECOMMENDED METHOD OF REPAIR FOR ALL PAVEMENT STRUCTURAL FAILURES PRIOR TO STATE ACCEPTANCE.
41. ALL VEGETATION AND ORGANIC MATERIAL MATERIAL IS TO BE REMOVED FROM THE PROPOSED PAVEMENT LIMITS PRIOR TO CONDITIONING OF THE SUBGRADE.
42. CERTIFICATION AND SOURCE OF MATERIALS ARE TO BE SUBMITTED TO THE OWNER FOR ALL MATERIALS AND BE IN ACCORDANCE WITH THE ROAD AND BRIDGE SPECIFICATIONS, AND ROAD AND BRIDGE STANDARDS.
43. ALL APPROACH GUTTERS TO SAG INLETS SHALL MAINTAIN A MINIMUM SLOPE OF 0.04 ft./ft.
44. WHERE A TYPE "B" NOSE IS SPECIFIED ON AN INLET IN CONJUNCTION WITH ROLL FACE CURB AND GUTTER OR CG-7, THERE SHALL BE A 20' TRANSITION ON EACH SIDE OF THE INLET.
45. CONTRACTOR SHALL PROVIDE A SEQUENCE OF CONSTRUCTION/MAINTENANCE OF TRAFFIC PLAN IN ACCORDANCE WITH THE STANDARDS AND GUIDELINES CONTAINED IN THE 2011 EDITION OF THE VIRGINIA WORK AREA PROTECTION MANUEL FOR REVIEW BY THE ENGINEER, ALBEMARLE COUNTY, AND VDOT PRIOR TO STARTING WORK THAT IMPACTS TRAFFIC ON STATE ROADS.
46. THE CLEAR ZONE IS TO BE FREE OF STORED MATERIALS AND PARKED EQUIPMENT.
47. HORIZONTAL AND VERTICAL SIGHT DISTANCES SHALL BE FREE OF PARKED VEHICLES.
48. ALL EXCAVATION FOR UNDERGROUND PIPE INSTALLATION MUST COMPLY WITH OSHA STANDARDS FOR THE CONSTRUCTION INDUSTRY (29 CFR PART 1926).
49. LAND USE PERMIT (CE-7) MUST BE OBTAINED FROM THE VIRGINIA DEPARTMENT OF TRANSPORTATION PRIOR TO BEGINNING ANY CONSTRUCTION WITHIN THE EXISTING STATE MAINTAINED RIGHT OF WAY (INCLUDING ACCESS).
50. ALL STORM SEWER AND DRAINAGE STRUCTURES DESIGN AND CONSTRUCTION TO BE IN ACCORDANCE WITH VDOT STANDARDS AND SPECIFICATION.
51. ALL PRE-CAST UNITS SHALL BE VDOT APPROVED. CERTIFICATION AND VDOT STAMP WILL BE REQUIRED ON ALL UNITS. SHOP DRAWINGS, GEOTECHNICAL DATA AND SOIL BEARING CAPACITY, AND PLAN VIEW SHALL BE SUBMITTED AS PACKAGE FOR VDOT REVIEW AND APPROVAL.
52. ALL CONCRETE SHALL BE MINIMUM CLASS A3-AE (AIR ENTRAINED 3,000 PSI) .
53. DESIGN CHANGES, SPECIFIED MATERIALS CHANGES AND/OR FIELD CHANGES FROM THE APPROVED PLANS NEED TO BE RE-SUBMITTED TO THE ENGINEER AND TO VDOT PRIOR TO PROCEEDING WITH THE WORK. A LETTER OF EXPLANATION SHALL ACCOMPANY THE REVISED PLANS AND/OR DRAINAGE CALCULATIONS, WHICH MUST BE SUBMITTED, TO VDOT FOR REVIEW AND APPROVAL BY THE RESIDENT ENGINEER.
54. AN ACTUAL COPY OF THE COMPLETE CBR REPORT IS TO BE SUBMITTED TO VDOT IN CONJUNCTION WITH FINAL PAVEMENT DESIGNS. ALL PAVEMENT DESIGN RECOMMENDATIONS SHALL BE PERFORMED IN ACCORDANCE WITH THE CURRENT EDITION OF THE PAVEMENT DESIGN GUIDE FOR SUBDIVISION AND SECONDARY ROADS IN VIRGINIA.
55. VDOT SHALL BE PROVIDED DOCUMENTATION BY A LICENSED GEOTECHNICAL ENGINEER, CERTIFYING THAT ALL IN-PLACE PAVEMENTS MEET OR EXCEED THE APPROVED PAVEMENT DESIGN THICKNESS PRIOR TO STATE ACCEPTANCE. THE CERTIFYING DOCUMENTATION SHALL CONFORM TO VDOT SPECIFICATIONS AND THE APPROVED PLANS.
56. THE ESTABLISHMENT OF A TEMPORARY VEGETATIVE COVER IS REQUIRED ON ALL DENUDED AREAS THAT ARE NOT TO BE FINE GRADED FOR PERIODS LONGER THAN 30 DAYS.
57. A PRECONSTRUCTION MEETING IS REQUIRED PRIOR TO UNDERTAKING ANY ROADWAY CONSTRUCTION ACTIVITIES. DEVELOPER OR DESIGNEE WILL CONTACT CHARLOTTESVILLE RESIDENCY, IN WRITING, FIVE WORKING DAYS IN ADVANCE OF ANTICIPATED CONSTRUCTION START TO ESTABLISH DATE, TIME AND LOCATION FOR PRECONSTRUCTION MEETING. THE PRIMARY FUNCTION OF THE CONSTRUCTION MEETING WILL BE TO IDENTIFY GEOTECHNICAL PARAMETERS OF PROPOSED CONSTRUCTION ACTIVITIES.
58. EXISTING PAVEMENT MARKINGS WITHIN STATE RIGHT OF WAY ARE TO BE ERADICATED (ALL ERADICATION SCARS AND FULL WIDTH LANES SHALL BE OVERLAID WITH SURFACE MIX OR SLURRY SEAL . EITHER METHOD USED MUST BE PLACE FOR FULL LANE WIDTH(S)). ALL NEW STRIPING REQUIRES THE USE OF THERMOPLASTIC PAVEMENT MARKINGS. CONTACT DISTRICT TRAFFIC ENGINEERING OFFICE TEN DAYS PRIOR TO PROCEEDING FOR STRIPING LAYOUT.
59. A GEOTECH REPORT SHALL VERIFY/APPROVE STONE DEPTHS IN ACCORDANCE WITH VDOT APPROVED PAVEMENT DESIGNS, PRIOR TO ASPHALT PLACEMENT.
60. ALL CONSTRUCTION DEBRIS, MATERIALS, DUMPSTERS, ETC. SHALL BE LOCATED OUTSIDE THE ROADWAY PRISM PRIOR TO STATE ACCEPTANCE OF THE ROADS AND SHALL BE MAINTAINED OUTSIDE THE ROADWAY PRISM WITHIN EXISTING STATE ROUTES.

BLASTING NOTES

1. BLASTING SHALL NOT BE PERMITTED ON THIS PROJECT.

UTILITY CONSTRUCTION NOTES

1. ALL MATERIALS FOR SEWER AND WATER SYSTEMS SHOWN SHALL BE SUPPLIED AND INSTALLED IN ACCORDANCE WITH THE LATEST SPECIFICATIONS OF THE ALBEMARLE COUNTY SERVICE AUTHORITY (ACSA).
2. FOR SEWER AND WATER INSTALLATION WITHIN EXISTING VDOT R/W; UTILITY CONTRACTORS MUST NOTIFY VDOT WHEN INSTALLATION BEGINS SO THAT DENSITY CAN BE TESTED ON TRENCH BACKFILL (95% ASTM. D-698 @ OPTIMUM MOISTURE ±2%).
3. THE MINIMUM CLEAR COVER OVER WATER PIPES SHALL BE 3.5 FEET.
4. MANHOLE TOPS ARE BASED ON FINAL GRADES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFICATION OF PROPER TOP ELEVATIONS BEFORE CONSTRUCTION OF MANHOLES.
5. THE OWNERS INSPECTOR WILL CERTIFY THAT THE GRADES ARE WITHIN 6 INCHES OF SUBGRADE BEFORE WATER LINE CONSTRUCTION CAN BEGIN.
6. FIRE HYDRANT PUMP CONNECTIONS SHALL FACE IN DIRECTION OF ARROW OR STREET.
7. ALL JUNCTION AND ACCESS BOXES, UTILITY PADS AND MECHANICAL EQUIPMENT SHALL BE SCREENED. SEE ARCHITECT'S AND/OR LANDSCAPE PLANS FOR DETAILS.
8. THRUST BLOCKING DETAILS FOR WATER LINES ARE TO BE IN ACCORDANCE WITH ACSA SPECIFICATIONS.
9. WATER LINE CONSTRUCTION SHALL BE IN ACCORDANCE WITH ACSA STANDARDS AND SPECIFICATIONS.
10. GAS LINE CONSTRUCTION SHALL BE IN ACCORDANCE WITH CHARLOTTESVILLE GAS STANDARDS AND SPECIFICATIONS.
11. A REPRESENTATIVE FROM CHARLOTTESVILLE GAS MUST BE ONSITE DURING ALL WORK NEAR GAS LINES.

PAVEMENT MARKING & SIGNING NOTES

1. VDOT'S DISTRICT TRAFFIC ENGINEERING SECTION WILL NEED TO BE CONTACTED 72 HOURS PRIOR TO ANY PAVEMENT MARKING ACTIVITIES, CONTACT CRO-OPERATIONS AT (540)-829-7500. FAILURE TO DO SO CAN RESULT IN ADDITIONAL COSTS TO THE CONTRACTOR.
2. ALL PERMANENT MARKINGS SHALL BE TYPE B, CLASS I UNLESS OTHERWISE DIRECTED BY VDOT TRAFFIC ENGINEERING.
3. ALL PAVEMENT MARKINGS MUST HAVE A PERSON WITH A PAVEMENT MARKING CERTIFICATION ISSUED BY THE VDOT MATERIALS DIVISION ON SITE DURING PAVEMENT MARKING OPERATIONS.
4. FOR ALL PROPOSED AND RELOCATED SIGNS, THE BOTTOM OF SIGN HEIGHT MUST BE AT LEAST 7' ABOVE GROUND (EXCEPT OM-3 SIGNS).
5. ALL EXISTING SIGNAGE SHOULD BE RELOCATED AND RE-SET IN THE SAME LOCATION AND SAME OFFSET AS CURRENTLY PROVIDED OR AS CLOSE AS POSSIBLE
6. CONTRACTOR SHALL TIE ALL PROPOSED PAVEMENT MARKINGS TO EXISTING MARKINGS AT THE PROJECT LIMITS
7. CONTRACTOR SHALL BE RESPONSIBLE FOR ERADICATION OF ALL EXISTING PAVEMENT MARKINGS WHICH ARE IN CONFLICT WITH PROPOSED STRIPING PLAN.
8. ERADICATE PAVEMENT MARKING SHALL BE TREATED WITH THE APPLICATION OF SLURRY SEAL IN ACCORDANCE WITH VDOT SPECIFICATIONS.
9. STRIPING TO BE PREFORMED IN-KIND WITH EXISTING TO REPLACE ALL MARKINGS REMOVED BY MILL AND OVERLAY.

PIPE BACKFILL NOTE

PIPE BACKFILL SHALL BE PERFORMED IN ACCORDANCE WITH VDOT STANDARD PB-1 AND SECTION 302.03(A) 2. G. OF THE SPECIFICATIONS UNLESS NOTED HEREIN. REGULAR BACKFILL MATERIAL WITHIN THE LIMITS OF ROADWAY EMBANKMENT AND UNDER EXISTING OR PROPOSED ROADWAY SHALL MEET A MINIMUM CBR VALUE OF 15 AS DETERMINED BY VTM-8. GROUND LINE SHALL BE CONSIDERED THE TOP OF TRENCH AT THE TIME OF PIPE INSTALLATION. WHEN PIPE DOES NOT PROJECT ABOVE GROUND LINE, REGULAR BACKFILL SHALL EXTEND TO THE TOP OF THE PIPE TRENCH IN FILLS OR SUBGRADE IN CUTS. OUTLET PIPES FOR STORM WATER MANAGEMENT BASINS SHALL BE INSTALLED AS NOTED ON THE PLANS. THE COST OF FURNISHING, PLACING, AND COMPACTING THE REGULAR BACKFILL AND DISPOSING OF UNSUITABLE MATERIAL EXCAVATED FROM THE TRENCH SHALL BE INCLUDED IN THE PRICE OF THE PIPE AND WILL NOT BE MEASURE AND FOR SEPARATE PAYMENT.

ACSA GENERAL WATER & SEWER CONDITIONS

1. WORK SHALL BE SUBJECT TO INSPECTION BY ALBEMARLE COUNTY SERVICE AUTHORITY (ACSA) INSPECTORS. THE CONTRACTOR WILL BE RESPONSIBLE FOR NOTIFYING THE PROPER ACSA OFFICIALS AT THE START OF THE WORK.
2. THE ALBEMARLE COUNTY SERVICE AUTHORITY SHALL HAVE ACCESS TO USE THE AIRSPACE ABOVE THE LOCATIONS OF CONSTRUCTION FOR THE FLIGHT OF UNMANNED AERIAL VEHICLES FOR THE PURPOSE OF IMAGERY COLLECTION.
3. THE LOCATION OF EXISTING UTILITIES ACROSS THE LINE OF THE PROPOSED WORK ARE NOT NECESSARILY SHOWN ON THE PLANS AND WHERE SHOWN ARE ONLY APPROXIMATELY CORRECT. THE CONTRACTOR SHALL, ON HIS OWN INITIATIVE, LOCATE ALL UNDERGROUND LINES AND STRUCTURES, AS NECESSARY.
4. ALL MATERIALS AND CONSTRUCTION SHALL COMPLY WITH THE CURRENT EDITION OF THE GENERAL WATER AND SEWER CONSTRUCTION SPECIFICATIONS, AS ADOPTED BY THE ACSA.
5. DATUM FOR ALL ELEVATIONS SHOWN IN NATIONAL GEODETIC SURVEY.
6. THE CONTRACTOR SHALL BE RESPONSIBLE FOR NOTIFYING MISS UTILITY(1-800-552-7001).
7. ALL WATER AND SEWER PIPES SHALL HAVE A MINIMUM OF THREE AND A HALF (3.5) FEET OF COVER MEASURED FROM THE TOP OF PIPE, OVER THE CENTERLINE OF PIPE. THIS INCLUDES ALL FIRE HYDRANT LINES, SERVICE LATERALS AND WATER LINES, ETC.
8. ALL WATER AND SEWER APPURTENANCES ARE TO BE LOCATED OUTSIDE OF ROADSIDE DITCHES.
9. VALVES ON DEADEND LINES SHALL BE RODDED TO PROVIDE ADEQUATE RESTRAINT FOR THE VALVE DURING A FUTURE EXTENSION OF THE LINE.
10. TREES ARE NOT PERMITTED IN THE ACSA EASEMENT.
11. THE CONTRACTOR SHALL BE RESPONSIBLE TO COMPLY WITH THE NO-LEAD REGULATION REGARDING BRASS FITTINGS EFFECTIVE JANUARY 4, 2014 (SENATE BILL 3874 WHICH AMENDS THE SAFE DRINKING WATER ACT).
12. THE SEWER LATERAL BEYOND THE CONNECTION AT THE SEWER MAIN SHALL BE PRIVATE. THE SEWER LATERAL STUB-OUT SHALL UNDERGO THE ACSA LOW-PRESSURE AIR TEST TO SATISFY COUNTY TESTING REQUIREMENTS. VISUAL INSPECTION OF THE SEWER LATERAL STUB-OUT SHALL BE WITNESSED BY THE COUNTY BUILDING INSPECTIONS DEPARTMENT. THIS INSPECTION SHALL OCCUR UNDER AN "OTHER PLUMBING" PERMIT WHICH MUST BE OBTAINED BY THE CONTRACTOR.
13. THE SEWER LATERAL BEYOND THE CONNECTION AT A MANHOLE SHALL BE PRIVATE. VISUAL INSPECTION AND PRESSURE TESTING OF THE SEWER LATERAL SHALL BE WITNESSED BY THE COUNTY BUILDING INSPECTIONS DEPARTMENT. THIS INSPECTION SHALL OCCUR UNDER AN "OTHER PLUMBING" PERMIT WHICH MUST BE OBTAINED BY THE CONTRACTOR.
14. THE FIRE SPRINKLER MAIN DOWNSTREAM OF THE GATE VALVE IS PRIVATE. VISUAL INSPECTION AND TESTING OF THE FIRE SPRINKLER MAIN DOWNSTREAM OF THE GATE VALVE SHALL BE WITNESSED BY THE COUNTY BUILDING INSPECTIONS DEPARTMENT. THIS INSPECTION SHALL OCCUR UNDER AN "OTHER PLUMBING" PERMIT WHICH MUST BE OBTAINED BY THE CONTRACTOR.
15. ALL FLUSHINS OF FIRE SPRINKLER MAINS SHALL NOT OCCUR UNTIL APPROVAL IS GIVEN BY THE ACSA.

LEGEND

- WATER VALVE
- WATER METER
- FIRE HYDRANT
- SPIGOT
- WATER VAULT
- STORM DRAINAGE (SD) MANHOLE
- ROCK ARMOR
- RCP REINFORCED CONCRETE PIPE
- CMP CORRUGATED METAL PIPE
- PVC POLY-VINYL CHLORIDE PIPE
- TELECOM PEDESTAL
- TELECOM BOX / VAULT
- TELECOM MARKER / WITNESS
- UTILITY POLE
- LIGHT POLE
- GUY ANCHOR
- GROUND LIGHT
- TRAFFIC CONTROL BOX / VAULT
- TRAFFIC SIGNAL MAST
- G UNDERGROUND GAS-LINE UTILITY
- W WATER-LINE
- UFO UNDERGROUND TELECOM UTILITY
- UGP UNDERGROUND POWER/ELEC UTILITY
- OHP OVERHEAD POWER UTILITY
- X FENCE-LINE
- CENTERLINE SWALE/DITCH
- EP EDGE OF PAVEMENT (EP)
- GUARD-RAIL
- CONIFEROUS TREE (CNFR)
- DECIDUOUS TREE (DEC)
- LSA LANDSCAPED AREA
- LST LANDSCAPE TIMBER
- C&G CURB & GUTTER
- SW SIDEWALK
- SIGN
- BOLLARD
- DWL PAINTED DASHED WHITE LINE
- SWL PAINTED SOLID WHITE LINE
- (F) FOUND (PROPERTY MONUMENT)

CONTOUR INTERVAL = 1'

LEGEND

PROPOSED

- W WATER
- G GAS
- STORM PIPE
- 1 1 STORM INLET
- 1 STORM MANHOLE
- WATER VALVE
- STREET SIGN
- PROPOSED FIRE HYDRANT (COMPLETE)
- CURB & GUTTER (CG-6, CG-7)
- CURB (CG-2)
- DITCH LINE

ABBREVIATIONS

TC = TOP OF CURB
BC = BACK OF CURB
EP = EDGE OF PAVEMENT
TW = TOP OF WALL
BW = BOTTOM OF WALL
TS = TOP OF STAIRS
BS = BOTTOM OF STAIRS
N/A = NOT APPLICABLE TO THIS PROJECT
VAR = VARIES
ST'D = STANDARD
REQ'D = REQUIRED
PROP = PROPOSED
V.I.F. = VERIFY IN FIELD
EXIST. = EXISTING
TYP. = TYPICAL

SOURCE OF BOUNDARY AND TOPOGRAPHY:
TIMMONS GROUP PAUL HUBER, LS
ORIGINAL SURVEY APRIL & MAY, 2015
ADDITIONAL SURVEY NOVEMBER, 2015
TOPOGRAPHY FIELD VERIFIED AUGUST, 2017

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ALBEMARLE COUNTY SIDEWALKS
COUNTY OF ALBEMARLE, VIRGINIA
NOTES & DETAILS

JOB NO. 33882.005
SHEET NO. 2E(2)

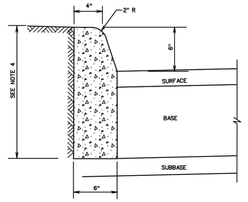
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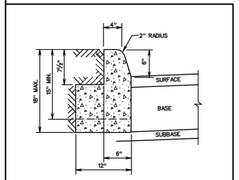
\\timmons.com\gfx\300\103\33882-slb_sidewalks\DWG\Sheet\CD\33882C-2F_DETAILS.dwg | Plotted on 10/28/2020 8:16 AM | by Aaron Mabee

CG-2

NOTES:

1. THIS ITEM MAY BE PRECAST OR CAST IN PLACE.
2. CONCRETE TO BE CLASS A3 IF CAST IN PLACE, 4000 PSI IF PRECAST.
3. CURB HAVING A RADIUS OF 300 FEET OR LESS (ALONG FACE OF CURB) WILL BE PAD FOR AS RADIAL CURB.
4. THE DEPTH OF CURB MAY BE REDUCED AS MUCH AS 3" (15" DEPTH OR INCREASED AS MUCH AS 3" (18" DEPTH) WITH THE TOP OF THE CURB AT THE SAME GRADE AS THE PAVEMENT SURFACE. OTHERWISE, THE DEPTH IS TO BE 18" AS SHOWN. NO ADJUSTMENT IN THE PRICE BID IS TO BE MADE FOR A DECREASE OR AN INCREASE IN DEPTH.
5. CG-2 IS TO BE USED ON ROADWAYS MEETING THE REQUIREMENTS FOR CG-3 AS SHOWN IN APPENDIX A OF THE VDOT ROAD DESIGN MANUAL, IN THE SECTION ON GS URBAN STANDARDS.



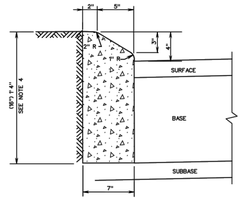


ACCEPTABLE ALTERNATIVE IF CURB IS EXTRUDED

SPECIFICATION REFERENCE	STANDARD 6" CURB	VDOT ROAD AND BRIDGE STANDARDS
105, 502	VIRGINIA DEPARTMENT OF TRANSPORTATION	REVISION DATE: — SHEET 1 OF 1: 201.01

2016 ROAD & BRIDGE STANDARDS

CG-3



NOTES:

1. THIS ITEM MAY BE PRECAST OR CAST IN PLACE.
2. CONCRETE TO BE CLASS A3 IF CAST IN PLACE, 4000 PSI IF PRECAST.
3. CURB HAVING A RADIUS OF 300 FEET OR LESS (ALONG FACE OF CURB) WILL BE PAD FOR AS RADIAL CURB.
4. THE DEPTH OF CURB MAY BE REDUCED AS MUCH AS 3" (15" DEPTH) OR INCREASED AS MUCH AS 3" (18" DEPTH) WITH THE TOP OF THE CURB AT THE SAME GRADE AS THE PAVEMENT SURFACE. OTHERWISE, THE DEPTH IS TO BE 18" AS SHOWN. NO ADJUSTMENT IN THE PRICE BID IS TO BE MADE FOR A DECREASE OR AN INCREASE IN DEPTH.
5. CG-3 IS TO BE USED ON ROADWAYS MEETING THE REQUIREMENTS FOR CG-7 AS SHOWN IN APPENDIX A OF THE VDOT ROAD DESIGN MANUAL IN THE SECTION ON GS URBAN STANDARDS.
6. WHEN THIS STANDARD IS TO BE TIED INTO EXISTING BARRIER CURB, THE TRANSITION IS TO BE MADE WITHIN 10' OR THE CHANGE IN STANDARDS CAN BE MADE AT REGULAR OPENINGS.

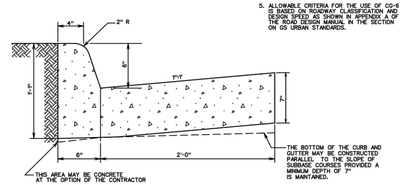
VDOT ROAD AND BRIDGE STANDARDS	STANDARD 4" CURB	SPECIFICATION REFERENCE
SHEET 1 OF 1 — REVISION DATE: 201.02	VIRGINIA DEPARTMENT OF TRANSPORTATION	105, 502

2016 ROAD & BRIDGE STANDARDS

CG-6

NOTES:

1. THIS ITEM MAY BE PRECAST OR CAST IN PLACE.
2. CONCRETE TO BE CLASS A3 IF CAST IN PLACE, 4000 PSI IF PRECAST.
3. COMBINATION CURB & GUTTER HAVING A RADIUS OF 300 FEET OR LESS (ALONG FACE OF CURB) SHALL BE PAD FOR AS RADIAL COMBINATION CURB & GUTTER.
4. FOR USE WITH STABILIZED OPEN-GRADED DRAINAGE LAYER, THE BOTTOM OF THE CURB & GUTTER SHALL BE CONSTRUCTED PARALLEL TO THE SLOPE OF SUBBASE COURSES AND TO THE DEPTH OF THE PAVEMENT.
5. ALLOWABLE CRITERIA FOR THE USE OF CG-6 IS BASED ON ROADWAY CLASSIFICATION AND DESIGN SPEED AS SHOWN IN APPENDIX A OF THE ROAD DESIGN MANUAL IN THE SECTION ON GS URBAN STANDARDS.



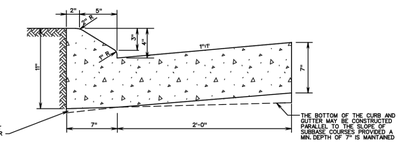
SPECIFICATION REFERENCE	COMBINATION 6" CURB AND GUTTER	VDOT ROAD AND BRIDGE STANDARDS
105, 502	VIRGINIA DEPARTMENT OF TRANSPORTATION	REVISION DATE: — SHEET 1 OF 1: 201.03

2016 ROAD & BRIDGE STANDARDS

CG-7

NOTES:

1. THIS ITEM MAY BE PRECAST OR CAST IN PLACE.
2. CONCRETE TO BE CLASS AS IF CAST IN PLACE, 4000 PSI IF PRECAST.
3. COMBINATION CURB & GUTTER HAVING A RADIUS OF 300 FEET OR LESS (ALONG FACE OF CURB) SHALL BE PAD FOR AS RADIAL COMBINATION CURB & GUTTER.
4. FOR USE WITH STABILIZED OPEN-GRADED DRAINAGE LAYER, THE BOTTOM OF THE CURB & GUTTER SHALL BE CONSTRUCTED PARALLEL TO THE SLOPE OF SUBBASE COURSES AND TO THE DEPTH OF THE PAVEMENT.
5. ALLOWABLE CRITERIA FOR THE USE OF CG-7 IS BASED ON ROADWAY CLASSIFICATION AND DESIGN SPEED AS SHOWN IN APPENDIX A OF THE VDOT ROAD DESIGN MANUAL IN THE SECTION ON URBAN GS STANDARDS.
6. WHEN THIS STANDARD IS TO BE TIED INTO EXISTING BARRIER CURB, THE TRANSITION IS TO BE MADE WITHIN 10' OR THE CHANGE IN STANDARDS CAN BE MADE AT REGULAR OPENINGS.
7. WHEN COMBINATION MOUNTABLE CURB AND GUTTER IS USED, THE STANDARD ENTRANCE GUTTERS OR STANDARD CONNECTION FOR STREET INTERSECTIONS ARE TO HAVE THE MOUNTABLE CURB CONFIGURATION INCORPORATED.



VDOT ROAD AND BRIDGE STANDARDS	COMBINATION 4" CURB AND GUTTER	SPECIFICATION REFERENCE
SHEET 1 OF 1 — REVISION DATE: 201.04	VIRGINIA DEPARTMENT OF TRANSPORTATION	105, 502

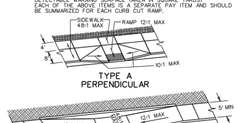
2016 ROAD & BRIDGE STANDARDS

CG-12

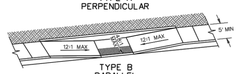
GENERAL NOTES:

1. THE DETECTABLE WARNING SHALL BE PROVIDED BY TRUNCATED DOMES.
2. ALL DETECTABLE WARNING SURFACE PRODUCTS SHALL MEET THE REQUIREMENTS OF ADA STANDARDS FOR ACCESSIBLE DESIGN FOR A DETECTABLE WARNING SURFACE. DETECTABLE WARNING SURFACE PRODUCTS USED SHALL BE FROM THE MATERIALS APPROVED PRODUCT LIST NUMBER 72.
3. SLOPING SIDES OF CURB RAMP MAY BE POURED MONOLITHICALLY WITH RAMP FLOOR OR BY USING PERMISSIBLE CONSTRUCTION JOINT WITH REQUIRED BARS.
4. REQUIRED BARS ARE TO BE NO. 5 X 8'- 0" PLACED 1'-0"CENTER TO CENTER ALONG BOTH SIDES OF THE RAMP FLOOR, MID-DEPTH OF RAMP FLOOR. MINIMUM CONCRETE COVER 1½".
5. ROADWAY CURB / CURB AND GUTTER SLOPE TRANSITIONS ADJACENT TO CURB RAMPS ARE INCLUDED IN PAYMENT FOR CURB / CURB AND GUTTER.
6. CURB RAMPS ARE REQUIRED FOR SIDEWALKS AND SHARED USE PATHS. THE WIDTH OF THE CURB RAMP SHALL MATCH SIDEWALK WIDTH. WHEN CURB RAMPS ARE USED IN CONJUNCTION WITH A SHARED USE PATH, THE MINIMUM WIDTH SHALL BE THE WIDTH OF THE SHARED USE PATH.
7. DETECTABLE WARNINGS SHALL EXTEND THE FULL WIDTH OF THE CURB RAMP LANDING FLOOR.
8. CURB RAMPS WILL BE INSTALLED AND LOCATED WITHIN PEDESTRIAN CROSSWALKS AND SHALL NOT BE LOCATED IN CONFLICT WITH ANY OBSTRUCTIONS. RAMPS SHOULD NOT BE LOCATED BEHIND VEHICLE STOP LINES, LIGHT POLES, CURB INLETS, MANHOLES OR INLETS, ETC.
9. RAMPS MAY BE PLACED ON RADIAL OR TANGENTIAL SECTIONS PROVIDED THAT THE CURB OPENING IS PLACED WITHIN THE LIMITS OF THE CROSSWALK AND THAT THE SLOPE AT THE CONNECTION OF THE CURB OPENING IS PERPENDICULAR TO THE CURB.
10. DETECTABLE WARNING SURFACE PANELS SHALL BE INSTALLED FLUSH WITH THE BACK OF CURB.
11. WHERE CURB RAMPS INTERSECT A RADIAL SECTION OF CURB AT ENTRANCES OR STREET CONNECTIONS THE DETECTABLE WARNING SURFACE SHALL HAVE A FACTORY BEVEL OR BE FIELD-MODIFIED AS RECOMMENDED BY THE MANUFACTURER TO MAINTAIN A FLAT, LEVEL SURFACE. SEE STANDARDS 204-06 AND 204-07 FOR METHODS OF INSTALLING DETECTABLE WARNINGS ON A RADIUS.

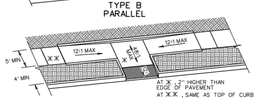
NOTE: COMPONENTS OF CURB RAMPS CONSIST OF THE FOLLOWING: HYDRAULIC CEMENT CONCRETE (DEPTH IN INCHES) AREA IN SQUARE YARDS) DETECTABLE WARNING SURFACE (DEPTH IN INCHES) AREA IN SQUARE YARDS) EACH OF THE ABOVE ITEMS IS A SEPARATE PAY ITEM AND SHOULD BE SUMMARIZED FOR EACH CURB CUT RAMP.



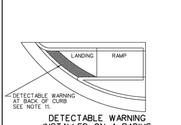
TYPE A PERPENDICULAR



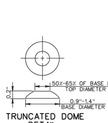
TYPE B PARALLEL



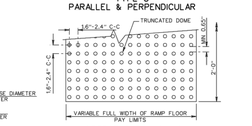
TYPE C PARALLEL & PERPENDICULAR



DETECTABLE WARNING INSTALLED ON A RADIUS



TRUNCATED DOME DETAIL

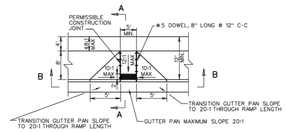


DETECTABLE WARNING DETAIL

VDOT ROAD AND BRIDGE STANDARDS	CG-12 DETECTABLE WARNING SURFACE (GENERAL NOTES)	SPECIFICATION REFERENCE
SHEET 1 OF 5 — REVISION DATE: 04/19 — 204.01	VIRGINIA DEPARTMENT OF TRANSPORTATION	105, 503, 504

2016 ROAD & BRIDGE STANDARDS

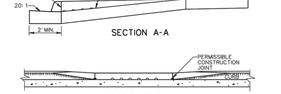
CG-12



TYPE A PERPENDICULAR



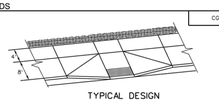
SECTION A-A



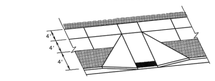
SECTION B-B

NOTES:

1. FOR GENERAL NOTES ON THE DETECTABLE WARNING SURFACE, SEE SHEET 1 OF 5.
2. THIS DESIGN TO BE USED FOR CONSTRUCTION THAT INCORPORATES WIDER SIDEWALK, LANDING (4' WIDE) REQUIRED AT TOP OF CURB RAMP. MINIMUM CURB RAMP LENGTH 8 FEET FOR NEW CONSTRUCTION.
3. GUTTER PAN SHALL BE A MAXIMUM SLOPE OF 20:1 AT THE RAMP OPENING.
4. DIAGONAL PLACEMENT IS NOT PERMITTED.

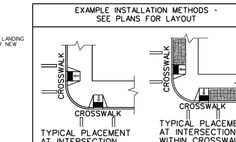


TYPICAL DESIGN



TYPE A WITH BUFFER STRIP

EXAMPLE INSTALLATION METHODS - SEE PLANS FOR LAYOUT



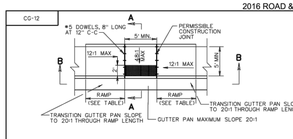
TYPICAL PLACEMENT AT INTERSECTION WITHIN CROSSWALK

TYPICAL PLACEMENT AT INTERSECTION WITHIN CROSSWALK (WITH BUFFER STRIP)

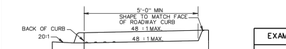
SPECIFICATION REFERENCE	CG-12 DETECTABLE WARNING SURFACE (TYPE A (PERPENDICULAR) APPLICATION	VDOT ROAD AND BRIDGE STANDARDS
105, 503, 504	VIRGINIA DEPARTMENT OF TRANSPORTATION	REVISION DATE: 04/19 — SHEET 2 OF 5: 204.02

2016 ROAD & BRIDGE STANDARDS

CG-12



SECTION A-A



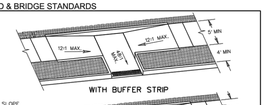
SECTION B-B

NOTES:

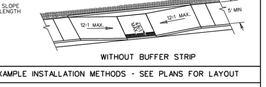
1. FOR GENERAL NOTES ON THE DETECTABLE WARNING SURFACE, SEE SHEET 1 OF 5.
2. THE REQUIRED LENGTH OF A PARALLEL RAMP IS LIMITED TO 15 FEET, REGARDLESS OF THE SLOPE.
3. GUTTER PAN SHALL BE A MAXIMUM SLOPE OF 20:1 AT THE RAMP OPENING.
4. DIAGONAL PLACEMENT IS NOT PERMITTED.

TYPE B PARALLEL APPLICATION

ROADWAY GRADE IN PERCENT	MINIMUM RAMP LENGTH IN FEET	
	4" CURB	6" CURB
0	4	6
1	5	7
2	5	8
3	6	9
4	8	12
5	10	15
6	14	15

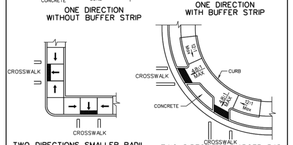


SECTION A-A



SECTION B-B

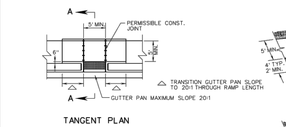
EXAMPLE INSTALLATION METHODS - SEE PLANS FOR LAYOUT



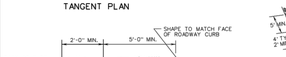
SPECIFICATION REFERENCE	CG-12 DETECTABLE WARNING SURFACE TYPE B (PARALLEL) APPLICATION	VDOT ROAD AND BRIDGE STANDARDS
105, 503, 504	VIRGINIA DEPARTMENT OF TRANSPORTATION	REVISION DATE: 04/19 — SHEET 3 OF 5: 204.03

2016 ROAD & BRIDGE STANDARDS

CG-12



TANGENT PLAN

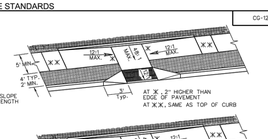


SECTION A-A

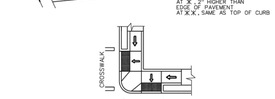
ROADWAY GRADE IN PERCENT	MINIMUM RAMP LENGTH IN FEET	
	4" CURB	6" CURB
0	2	4
1	2	5
2	3	5
3	3	6
4	4	8
5	5	10
6	7	13
7	13	15
8	15	15

TYPE C PARALLEL & PERPENDICULAR APPLICATION

THE REQUIRED LENGTH OF A PARALLEL RAMP IS LIMITED TO 15 FEET, REGARDLESS OF THE SLOPE.







EXAMPLE PLACEMENT AT INTERSECTION WITH BUFFER STRIP

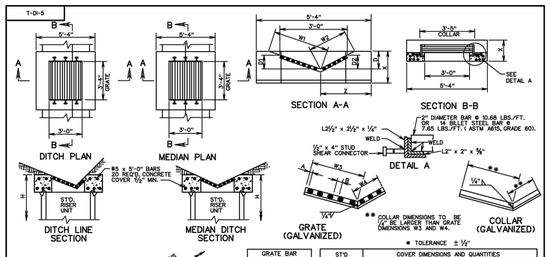
NOTES:

1. FOR GENERAL NOTES ON THE DETECTABLE WARNING SURFACE, SEE SHEET 1 OF 5.
2. THE SELECTION OF CURB TYPE AND THE CONFIGURATION OF THE BUFFER STRIP MAY VARY TO MEET EXISTING FIELD CONDITIONS AND ROADWAY GEOMETRICS PROVIDING THE DIMENSIONS AND SLOPES ARE AS NOTED.
3. THIS COMBINED (PARALLEL & PERPENDICULAR) DESIGN CAN BE USED WITH ADJOINING BUFFER STRIP, LANDING AT BOTTOM OF TWO SLOPING SIDES WITH 5' X 5' MIN. DIMENSIONS. THE SHORT PERPENDICULAR RUN TO THE STREET CAN BE PROTECTED BY A LANDSCAPED SETBACK OR CONNECTED TO THE SIDEWALK WITH A WARPED SURFACE.
4. GUTTER PAN SHALL BE A MAXIMUM SLOPE OF 20:1 AT THE RAMP OPENING.
5. DIAGONAL PLACEMENT IS NOT PERMITTED.

SPECIFICATION REFERENCE	CG-12 DETECTABLE WARNING SURFACE TYPE C (PARALLEL & PERPENDICULAR) APPLICATION	VDOT ROAD AND BRIDGE STANDARDS
105, 502	VIRGINIA DEPARTMENT OF TRANSPORTATION	REVISION DATE: 04/19 — SHEET 4 OF 5: 204.04

2016 ROAD & BRIDGE STANDARDS

T-DI-5



* COLLAR DIMENSIONS TO BE ½" BE LARGER THAN GRATE DIMENSIONS W3 AND W4.

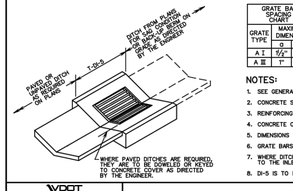
GRATE BAR SPACING CHART	
GRATE TYPE	MAXIMUM DIMENSION G
A1	15/16"
A2	1"

* TOLERANCE ± ½"

ST'D NO.	COVER DIMENSIONS AND QUANTITIES								
PG-2 TYPE	W1	W2	W3	W4	D*	D1	D2	X	Z
A1,A2,A3	3'-0½"	2'-0⅝"	2'-0⅝"	1'-0⅝"	6"	4"	3"	14"	2'-2"
B1,B2,B3,B4, C1,C2,C3	2'-9"	2'-9"	1'-6⅝"	1'-6⅝"	8"	4½"	4½"	18"	2'-8"
E	2'-3"	2'-3"	1'-9⅛"	1'-9⅛"	12"	9"	9"	18"	2'-8"

NOTES:

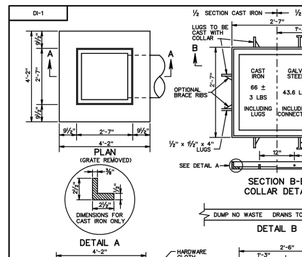
1. SEE GENERAL NOTES-PRECAST FOR ADDITIONAL DETAILS.
2. CONCRETE SHALL BE 4000 PSI MINIMUM.
3. REINFORCING STEEL SHALL BE IN ACCORDANCE WITH ASTM-A 615.
4. CONCRETE COVER AND GRATE ARE TO BE FURNISHED AS A SINGLE UNIT.
5. DIMENSIONS SHOWN ARE MINIMUM. ACTUAL DIMENSIONS MAY VARY WITH MANUFACTURER.
6. GRATE BARS ARE TO BE INSTALLED SO THEY WILL BE ALIGNED PARALLEL TO THE DITCH FLOW.
7. WHERE DITCH SLOPES DO NOT MATCH THOSE OF INLET COVER, THE AREA ADJACENT TO THE INLET IS TO BE GRADED TO PROVIDE A SMOOTH TRANSITION.
8. DI-5 IS TO BE UTILIZED IN LOCATIONS NOT NORMALLY SUBJECT TO TRAFFIC.

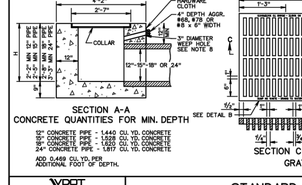


VDOT ROAD AND BRIDGE STANDARDS	STANDARD PRECAST TOP UNITS	SPECIFICATION REFERENCE
SHEET 1 OF 1 — REVISION DATE: — 103.07	VIRGINIA DEPARTMENT OF TRANSPORTATION	105, 233, 302

2016 ROAD & BRIDGE STANDARDS

DI-1





CONCRETE QUANTITIES FOR MIN. DEPTH

15" CONCRETE PIPE - 1.445 CU. YD. CONCRETE	
18" CONCRETE PIPE - 1.520 CU. YD. CONCRETE	
21" CONCRETE PIPE - 1.835 CU. YD. CONCRETE	
24" CONCRETE PIPE - 1.917 CU. YD. CONCRETE	
ADD 0.459 CU.YD./FT. ADDITIONAL FOOT OF DEPTH.	

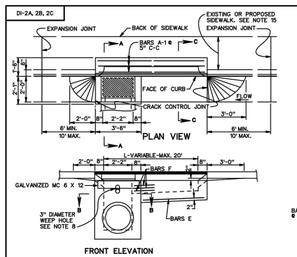
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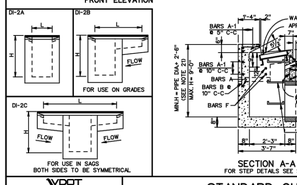
1. DEPTH OF INLET (H) TO BE SHOWN ON PLANS. FOR DEPTH GREATER THAN 10' USE STANDARD DI-1A.
2. THE "H" DIMENSION SHOWN ON THE STANDARD AND ACCEPTED ON THE PLANS WILL BE MEASURED FROM THE INVERT OF THE OUTFALL PIPE TO THE TOP OF THE STRUCTURE. ON "H" DIMENSIONS OVER 10' THE ACTUAL "H" DIMENSIONS ARE FOR PAYMENT PURPOSES AND THE ACTUAL DIMENSIONS SHALL BE DETERMINED BY THE CONTRACTOR FROM FIELD CONDITIONS.
3. WHEN SPECIFIED ON THE PLANS THE INVERT IS TO BE POURED IN ACCORDANCE WITH STANDARD IS-1. THE COST OF FURNISHING AND PLACING ALL MATERIALS INCIDENTAL TO THE INVERT SHALL BE INCLUDED IN THE BID PRICE FOR THE STRUCTURE.
4. IN THE EVENT THE INVERT OF THE OUTFALL PIPE IS HIGHER THAN THE BOTTOM OF THE STRUCTURE, THE INVERT OF THE STRUCTURE SHALL BE SHAPED WITH CEMENT MORTAR TO PREVENT SILTATION. THE COST OF SHAPING IN THE STRUCTURE, THE COST OF FURNISHING AND PLACING ALL MATERIALS INCIDENTAL TO SUCH SHAPING IS TO BE INCLUDED IN THE BID PRICE FOR THE STRUCTURE.
5. STEPS ARE TO BE PROVIDED WHEN H IS 4'-0" OR GREATER. FOR DETAILS SEE STANDARD ST-1.
6. THIS ITEM MAY BE PRECAST OR CAST-IN-PLACE.
7. #4 X 8" SMOOTH DOWELS AT APPROXIMATELY 12" C-C TO BE PLACED IN ALL AREAS ADJACENT TO ABUTTING CONCRETE TO PREVENT SETTLEMENT IN LIEU OF DOWELS THE KEYED CONSTR. JOINT PROVIDED. SEE STANDARD 1-D-3.4 FOR ALTERNATE DESIGN.
8. 3" DIAMETER WEEP HOLE WITH 12"X12" (0.5) SQUARE HARDWARE CLOTH (½" MESH OF GALVANIZED STEEL WIRE, MINIMUM WIRE DIAMETER 0.035", NUMBER 4 MESH HARDWARE CLOTH APPROVED) PLACED TO THE OUTSIDE OF THE STRUCTURE.
9. CAST IN PLACE OR SHOTE IS TO BE CLASS A3 (3000 PSI). PRECAST CONCRETE IS TO BE 4000 PSI.
10. ANY ALTERNATE METHODS OF ANCHORAGE MEETING THE APPROVAL OF THE ENGINEER MAY BE SUBSTITUTED FOR THE CAST IRON LUGS AS SHOWN HEREON.
11. DUMP NO WASTE DRAINS TO WATERWAY LETTERING IS REQUIRED ON ALL DI-1 GRATES. LOCATION OF LETTERING MAY VARY BY MANUFACTURER.

VDOT ROAD AND BRIDGE STANDARDS	STANDARD DROP INLET 12" - 24" PIPE: MAXIMUM DEPTH (H) = 10'	SPECIFICATION REFERENCE
SHEET 1 OF 1 — REVISION DATE: — 104.01	VIRGINIA DEPARTMENT OF TRANSPORTATION	233, 302

2016 ROAD & BRIDGE STANDARDS

DI-2A, 2B, 2C

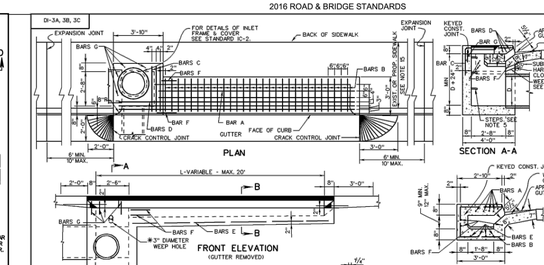


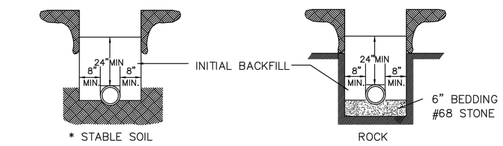


VDOT ROAD AND BRIDGE STANDARDS	STANDARD CURB DROP INLET 12" - 24" PIPE: MAXIMUM DEPTH (H) = 9'	SPECIFICATION REFERENCE
SHEET 1 OF 2 — REVISION DATE: — 104.03	VIRGINIA DEPARTMENT OF TRANSPORTATION	233, 302

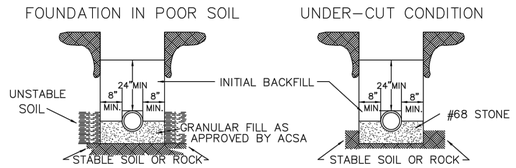
2016 ROAD & BRIDGE STANDARDS

DI-3A, 3B, 3C


EXPANSION JOINT
3'-10"
FOR DETAILS OF INLET GRATE & COVER SEE STANDARD DI-2.
BACK OF SIDEWALK
EXPANSION JOINT
KEYED CONST. JOINT
BARS D
BARS G
BARS C
BARS F
BARS A
BARS B
GUTTER
FACE OF CURB
CRACK CONTROL JOINT
6" MIN. 8" MAX.
6" MIN. 10" MAX.
PLAN
L-VARIABLE - MAX. 20'
BARS E
3" DIAMETER WEEP HOLE
FR



* SCRAPE THE BOTTOM OF THE TRENCH. REMOVE ALL STONES TO INSURE THE PIPE DOESN'T REST ON ROCK AND THEN COMPACT THE SOIL OR PROVIDE A 4" BEDDING OF #68 STONE.



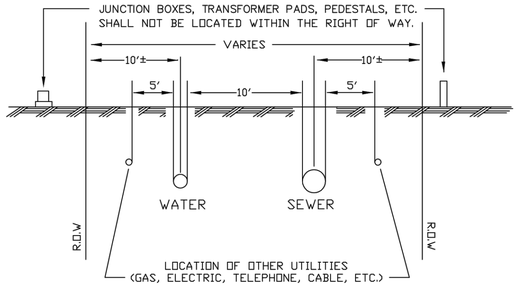
NOTE :

1. NO ROCKS SHALL BE ALLOWED WITHIN 24" OF THE WATER LINES.
2. NO ROCKS LARGER THAN 6" IN ANY DIMENSION SHALL BE ALLOWED ABOVE THE INITIAL BACKFILL.
3. THE INITIAL BACKFILL SHALL BE PLACED AND COMPACTED IN 6" LIFTS.
4. NO ORGANIC OR FROZEN MATERIAL OR DEBRIS SHALL BE ALLOWED IN THE TRENCH.
5. BELL HOLES SHALL BE DUG OUT IN ALL CASES.

DUCTILE IRON WATER PIPE INSTALLATION & BEDDING

NTS
FIG. W-2

TD-2



EASEMENT WIDTHS: WATER OR SEWER ONLY - 20' MINIMUM
WATER & SEWER ——— 30' MINIMUM

* SEE PART 3, PARAGRAPH D; SEPARATION OF WATER & SEWER SYSTEMS.

UTILITIES CROSSING A WATER OR SEWER EASEMENT SHOULD BE AT 90° TO THE RIGHT OF WAY.

UTILITY LOCATIONS & EASEMENT WIDTHS

NTS
FIG. W-1

TD-1

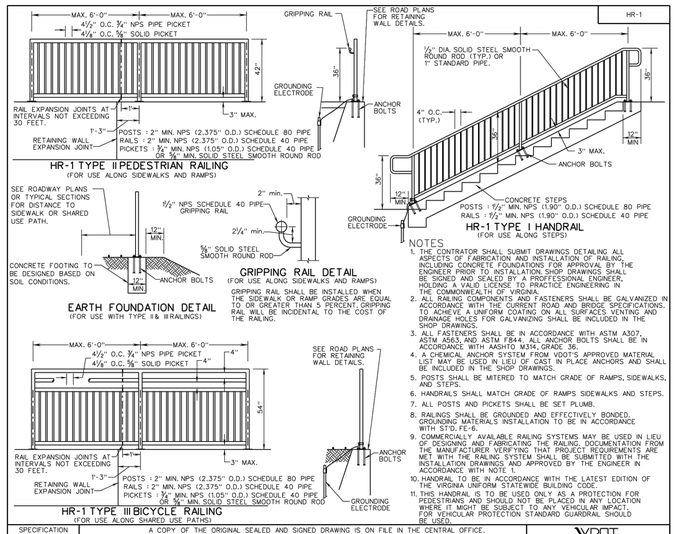
November 16, 2015

ACSA GENERAL WATER & SEWER CONDITIONS

1. WORK SHALL BE SUBJECT TO INSPECTION BY ALBEMARLE COUNTY SERVICE AUTHORITY (ACSA) INSPECTORS. THE CONTRACTOR WILL BE RESPONSIBLE FOR NOTIFYING THE PROPER ACSA OFFICIALS AT THE START OF THE WORK.
2. THE LOCATION OF EXISTING UTILITIES ACROSS THE LINE OF THE PROPOSED WORK ARE NOT NECESSARILY SHOWN ON THE PLANS AND WHERE SHOWN ARE ONLY APPROXIMATELY CORRECT. THE CONTRACTOR SHALL, ON HIS OWN INITIATIVE, LOCATE ALL UNDERGROUND LINES AND STRUCTURES, AS NECESSARY.
3. ALL MATERIALS AND CONSTRUCTION SHALL COMPLY WITH THE CURRENT EDITION OF THE GENERAL WATER AND SEWER CONSTRUCTION SPECIFICATIONS, AS ADOPTED BY THE ACSA.
4. DATUM FOR ALL ELEVATIONS SHOWN IN NATIONAL GEODETIC SURVEY.
5. THE CONTRACTOR SHALL BE RESPONSIBLE FOR NOTIFYING MISS UTILITY (1-800-552-7001).
6. ALL WATER AND SEWER PIPES SHALL HAVE A MINIMUM OF THREE AND A HALF (3.5) FEET OF COVER MEASURED FROM THE TOP OF PIPE, OVER THE CENTERLINE OF PIPE. THIS INCLUDES ALL FIRE HYDRANT LINES, SERVICE LATERALS AND WATER LINES, ETC.
7. ALL WATER AND SEWER APPURTENANCES ARE TO BE LOCATED OUTSIDE OF ROADSIDE DITCHES.
8. VALVES ON DEADEND LINES SHALL BE RODDED TO PROVIDE ADEQUATE RESTRAINT FOR THE VALVE DURING A FUTURE EXTENSION OF THE LINE.
9. TREES ARE NOT PERMITTED IN THE ACSA EASEMENT.
10. THE CONTRACTOR SHALL BE RESPONSIBLE TO COMPLY WITH THE NO-LEAD REGULATION REGARDING BRASS FITTINGS EFFECTIVE JANUARY 4, 2014 (SENATE BILL 3874 WHICH AMENDS THE SAFE DRINKING WATER ACT).

AVON WATERMAIN INSTALLATION NOTES:
ALONG AVON STREET, THE CONTRACTOR WILL TEST THE NEW WATER MAIN FROM THE TS&V TO THIS INLINE VALVE, AND THEN HANDLE THE CUT-IN AFTER ALL TESTS HAVE PASSED. THIS INLINE VALVE WILL NEED TO BE RESTRAINED FOR TESTING PURPOSES AND HAVE A TEMPORARY BLOW-OFF COMING OUT OF IT TO FLUSH.

AVON WATERMAIN SEQUENCE OF CONSTRUCTION AND FINAL DISINFECTION:
1. INSTALL TS&V AND NEW WATER MAIN TO INLINE VALVE. DURING INSTALLATION, CHLORINE TABLETS ARE ADDED TO EACH PIPE SEGMENT.
2. FILL NEW WATER MAIN FROM TS&V FOR PRESSURE TESTING, BACTERIOLOGICAL SAMPLES AND FLUSHING PURPOSES
3. INSTALL AND SWITCHOVER NEW WATER SERVICES TO THE NEWLY INSTALLED MAIN.
4. SCHEDULE AND PERFORM CUT-IN BETWEEN NEW AND EXISTING WATER MAIN NEAR STATION 12+00.



NOTES

1. THE CONTRATOR SHALL SUBMIT DRAWINGS DETAILING ALL ASPECTS OF FABRICATION AND INSTALLATION OF RAILING, INCLUDING CONCRETE FOUNDATIONS FOR APPROVAL BY THE ENGINEER PRIOR TO INSTALLATION. SHOP DRAWINGS SHALL BE SIGNED AND SEALED BY A PROFESSIONAL ENGINEER, HOLDING A VALID LICENSE TO PRACTICE ENGINEERING IN THE COMMONWEALTH OF VIRGINIA.
2. ALL RAILING COMPONENTS AND FASTENERS SHALL BE GALVANIZED IN ACCORDANCE WITH THE CURRENT ROAD AND BRIDGE SPECIFICATIONS. TO ACHIEVE A UNIFORM COATING ON ALL SURFACES VENTING AND DRAINAGE HOLES FOR GALVANIZING SHALL BE INCLUDED IN THE SHOP DRAWINGS.
3. ALL FASTENERS SHALL BE IN ACCORDANCE WITH ASTM A307, ASTM A563, AND ASTM F844. ALL ANCHOR BOLTS SHALL BE IN ACCORDANCE WITH AASHTO M314, GRADE 36.
4. A CHEMICAL ANCHOR SYSTEM FROM VDOT'S APPROVED MATERIAL LIST MAY BE USED IN LIEU OF CAST IN PLACE ANCHORS AND SHALL BE INCLUDED IN THE SHOP DRAWINGS.
5. POSTS SHALL BE MITERED TO MATCH GRADE OF RAMPS, SIDEWALKS, AND STEPS.
6. HANDRAILS SHALL MATCH GRADE OF RAMPS SIDEWALKS AND STEPS.
7. ALL POSTS AND PICKETS SHALL BE SET PLUMB.
8. RAILINGS SHALL BE GROUNDED AND EFFECTIVELY BONDED. GROUNDING MATERIALS INSTALLATION TO BE IN ACCORDANCE WITH STD.EL-F6.
9. COMMERCIALLY AVAILABLE RAILING SYSTEMS MAY BE USED IN LIEU OF DESIGNING AND FABRICATING THE RAILING. DOCUMENTATION FROM THE MANUFACTURER VERIFYING THAT PROJECT REQUIREMENTS ARE MET WITH THE RAILING SYSTEM SHALL BE SUBMITTED WITH THE INSTALLATION DRAWINGS AND APPROVED BY THE ENGINEER IN ACCORDANCE WITH NOTE 1.
10. HANDRAIL TO BE IN ACCORDANCE WITH THE LATEST EDITION OF THE VIRGINIA UNIFORM STATEWIDE BUILDING CODE.
11. THIS HANDRAIL IS TO BE USED ONLY AS A PROTECTION FOR PEDESTRIANS AND SHOULD NOT BE PLACED IN ANY LOCATION WHERE IT MIGHT BE SUBJECT TO ANY VEHICULAR IMPACT FOR VEHICULAR PROTECTION STANDARD GUARDRAIL SHOULD BE USED.

SPECIFICATION REFERENCE	A COPY OF THE ORIGINAL SEALED AND SIGNED DRAWING IS ON FILE IN THE CENTRAL OFFICE.	VDOT ROAD AND BRIDGE STANDARDS
105 238 504	STANDARD HANDRAIL METHOD OF LOCATING AND ERECTING VIRGINIA DEPARTMENT OF TRANSPORTATION	REVISION DATE: 7/11 SHEET 1 OF 1 601.05

GENERAL NOTES:

GRADING GENERAL NOTES:

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

G-4 The cost of removal of all existing concrete items located in the area to be graded, including, but not limited to the following, shall be included in the price bid for regular excavation: sidewalk, curb and gutter, paved ditch, pipes, end sections, small footings, small block or brick items, etc.

G-6 The borrow material for this project shall be a minimum CBR_10_or as approved by the Materials Engineer.

DRAINAGE GENERAL NOTES:

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

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

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

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

D-8 Where open joint pipe is to be used, no joint shall be opened a distance exceeding 25% of the spigot length. Sealing of the pipe joint shall be in accordance with Section 302 of the applicable VDOT Road and Bridge Specifications.

D-9 A pipe joint length different from that shown on the plans may be used. An adjustment in the percentage of open joint (not to exceed 25% of the spigot length) or amount of bevel shall be made that will obtain the radius stated on the plans. Extra payment for this adjustment will not be allowed. The proposed adjustment shall be approved by the Engineer prior to installation of the pipe line.

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

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

PAVEMENT GENERAL NOTES:

P-2 The pavement materials on this project will be paid for on a tonnage basis. The weight will vary in accordance with the specific gravity of the aggregates and the asphaltic content of the mix actually used to secure the design depth. The weight of the asphalt concrete is based on 95% of theoretical maximum density. (See IIM-LD-158)

INCIDENTAL GENERAL NOTES:

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

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

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

I-12 St'd. RM-2 Right of Way Monuments shall be set by the Contractor.

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

The following note is applicable in accordance with VDOT's Road Design Manual:
I-17 For method of constructing Straight-Line Taper Lanes in Curb and/or Curb and gutter sections, see typical details on Sheet 2E(3).

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

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

Hydraulic Design	Timmons Group
Roadway Design	Timmons Group
Utility Design	Timmons Group
Utility Designation	" " " "
Utility Location	" " " "
Survey	Timmons Group
Bridge Design	" " " "
Traffic Design	" " " "
Landscape Design	" " " "

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

I-21 All electronic plan assemblies will include the construction plans in two formats: PDF files and AutoCAD format (.dwg) files. Only the PDF files will be considered as part of the official plan assembly.
The AutoCAD format (.dwg) files are furnished only as information for the contractor. These plans are developed in layers (levels) to aid in readability. (See the VDOT CADD Manual for CADD Level Structure). However, the construction items may or may not be in the proper layering scheme as described in the VDOT CADD Manual.

2016 ROAD & BRIDGE STANDARDS

PC-1

TABLE A1 - ALLOWABLE TYPE OF STORM SEWER PIPE
FOR ROADWAYS THAT ARE CONSTRUCTED, FUNDED OR WILL ULTIMATELY BE MAINTAINED BY VDOT

FUNCTIONAL CLASSIFICATION OF ROADS SYSTEM UNDER WHICH PIPE IS TO BE INSTALLED	HIGHER FUNCTIONAL CLASS - HFC 50 - YEAR DESIGN STD.	LOWER FUNCTIONAL CLASS - LFC 50 - YEAR DESIGN STD.	
	RURAL PRINCIPAL ARTERIAL, URBAN PRINCIPAL ARTERIAL, RURAL MINOR ARTERIAL, URBAN MINOR ARTERIAL, RURAL COLLECTOR ROADS, URBAN COLLECTOR STREETS, SUBDIVISION STREETS WITH AN ADT GREATER THAN 4000	RURAL LOCAL ROADS, URBAN LOCAL STREETS; SUBDIVISION STREETS WITH AN ADT LESS THAN OR EQUAL TO 4000	
ALLOWABLE PIPE CULVERTS NOTES 1 & 2	STATEWIDE	STATEWIDE EXCEPT LOCATIONS SHOWN IN TABLE B	LOCATION SHOWN IN TABLE B
CONCRETE	✓	✓	✓
ALUMINUM COATED TYPE 2 STEEL SPIRAL RIB NOTE 3		✓	
POLYMER COATED (10/10) CORRUGATED STEEL SPIRAL RIB NOTE 3		✓	✓
POLYMER COATED (10/10) CORRUGATED STEEL DOUBLE WALL (SMOOTH INTERIOR) NOTE 3	✓	✓	✓
ALUMINUM SPIRAL RIB NOTE 3		✓	✓
POLYVINYLCHLORIDE (PVC) PROFILE WALL PIPE (SMOOTH INTERIOR)	✓	✓	✓
POLYETHYLENE (PE) CORRUGATED TYPE S	✓	✓	✓
POLYPROPYLENE (PP) TYPE D OR S	✓	✓	✓

TABLE B
EXCEPTIONS TO STATEWIDE APPLICATIONS

COUNTIES (INCLUDING TOWNS)			CITIES	
ARLINGTON - EAST OF AND INCLUDING RTES. 95 & 395	SURRY - EAST OF AND INCLUDING RTE. 10		SUFFOLK - EAST OF AND INCLUDING RTE. 32	
FAIRFAX - EAST OF AND INCLUDING RTES. 95 & 395	ISLE OF WIGHT - EAST OF AND INCLUDING RTE. 10		CHESAPEAKE	WILLIAMSBURG
PRINCE WILLIAM - EAST OF AND INCLUDING RTES. 95 & 395			VIRGINIA BEACH	POQUOSON
WESTMORELAND	JAMES CITY	ESSEX NORTHAMPTON	HAMPTON	PORTSMOUTH
LANCASTER	ACCOMACK	MIDDLESEX STAFFORD	NEWPORT NEWS	
MATTHEWS	SPOTSYLVANIA	YORK KING GEORGE	NORFOLK	
GLOUCESTER	NORTHUMBERLAND	RICHMOND	ALEXANDRIA	
			FREDERICKSBURG	

TABLE C

PIPE TYPE	ALLOWABLE pH RANGE (SEE NOTE 6)		ALLOWABLE RESISTIVITY RANGE (ohms-cm)		ALLOWABLE VELOCITY (FPS) (SEE NOTE 4)
	MIN.	MAX.	MIN.	MAX.	MAXIMUM
UNCOATED GALVANIZED CORRUGATED STEEL	6.0	10.0	2000	10000	5
GALVANIZED STEEL STRUCTURAL PLATE	6.0	9.0	2000	10000	5
GALVANIZED STEEL STRUCTURAL PLATE WITH THICKENED INVERT	6.0	9.0	2000	10000	15
ALUMINUM COATED TYPE 2 CORRUGATED STEEL	5.0	9.0	1500	-	5
ALUMINUM COATED TYPE 2 SPIRAL RIB	5.0	9.0	1500	-	5
CORRUGATED ALUMINUM ALLOY	4.0	9.0	1500	-	5
CORRUGATED ALUMINUM ALLOY STRUCTURAL PLATE	4.0	9.0	1500	-	5
ALUMINUM SPIRAL RIB	4.0	9.0	1500	-	5
POLYMER COATED (10/10) CORRUGATED STEEL	4.0	9.0	750	-	10
POLYMER COATED CORRUGATED STEEL SPIRAL RIB	4.0	9.0	750	-	10
POLYMER COATED CORRUGATED STEEL DOUBLE WALL	4.0	9.0	750	-	10

NOTES:

1. ALLOWABLE TYPES OF PIPES FOR A SPECIFIC AREA ARE TO CONFORM TO THE CRITERIA SHOWN IN TABLES A, A1, B, AND C. ANY DEVIATION MUST BE APPROVED BY THE STATE LOCATION AND DESIGN ENGINEER AND THE DISTRICT MATERIALS ENGINEER.
2. SEE HEIGHT OF COVER TABLES FOR MINIMUM AND MAXIMUM COVER LIMITATIONS FOR EACH TYPE OF PIPE.
3. SEE TABLE C FOR MINIMUM AND MAXIMUM pH, RESISTIVITY, AND VELOCITY LIMITATIONS FOR METAL PIPES. SEE TABLE D FOR REQUIRED GAUGE OF METAL PIPE.
4. ALLOWABLE WATER VELOCITY IN PIPE WHERE ABRASIVE BEDLOAD IS PRESENT OR ANTICIPATED. MAXIMUM VELOCITY BASED ON 10 YEAR DESIGN DISCHARGE (Q).
5. pH VALUES APPLY TO BOTH THE IN-SITU SOIL AND WATER. THE LESSER OF THE TWO VALUES SHALL APPLY.
6. pH OF SOIL - AASHTO T289.
   pH OF WATER - ASTM 1293-12 METHOD A
   RESISTIVITY (MINIMUM) OF SOIL - AASHTO T288
7. LARGE CULVERTS SHALL BE DESIGNED BY AN ENGINEER, REGISTERED IN THE COMMONWEALTH OF VIRGINIA, AND SHALL BE DESIGNED IN ACCORDANCE WITH THE REQUIREMENTS OF VOLUME V, PART 2 OF THE MANUAL OF THE STRUCTURE AND BRIDGE DIVISION. A LARGE CULVERT IS ANY CULVERT THAT WILL BECOME PART OF THE STRUCTURE AND BRIDGE INVENTORY. THE GEOMETRIC DEFINITION OF THESE STRUCTURES IS PROVIDED IN THE CURRENT VERSION OF VDOT'S IIM-S&B-27.

VDOT ROAD AND BRIDGE STANDARDS		A COPY OF THE ORIGINAL SEALED AND SIGNED STANDARD DRAWING IS ON FILE IN THE CENTRAL OFFICE	SPECIFICATION REFERENCE
SHEET 17 OF 18	REVISION DATE	ALLOWABLE PIPE CRITERIA FOR CULVERT AND STORM SEWERS VIRGINIA DEPARTMENT OF TRANSPORTATION	232 302
107.21	11/15		

2016 ROAD & BRIDGE STANDARDS

COMMONWEALTH OF VIRGINIA
JONATHAN M. SHOWALTER
Lic. No. 0402057151
10/28/2020
PROFESSIONAL ENGINEER

THIS DRAWING PREPARED AT THE
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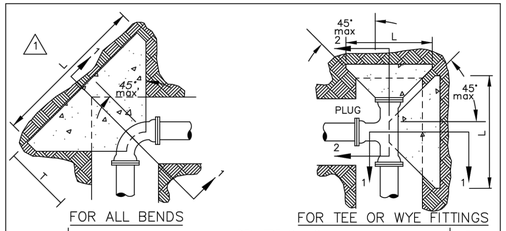
DATE
10/28/2020
DRAWN BY
J. SHOWALTER
DESIGNED BY
J. SHOWALTER
CHECKED BY
J. HASH
SCALE
N/A

TIMMONS GROUP

ALBEMARLE COUNTY SIDEWALKS
COUNTY OF ALBEMARLE, VIRGINIA
NOTES & DETAILS

JOB NO. 33882.005
SHEET NO. 2E(4)

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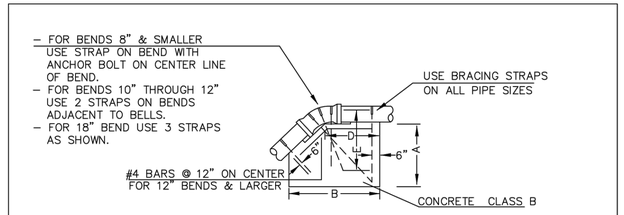
PIPE SIZE	DEGREE OF BEND	BEND DIMENSIONS (FEET) L	H	T	VOL. CU.YD.	TEE AND PLUGS (FEET) L	H	T	VOL. CU.YD.
4" & 6"	90	2.50	2.50	3.01	0.24	2.00	2.25	2.50	0.15
	45	2.00	2.25	2.60	0.15				
	22 1/2	1.50	2.00	2.52	0.10				
	11 1/4	1.50	2.00	2.50	0.10				
8"	90	3.66	3.16	3.21	0.48	3.16	2.91	2.66	0.32
	45	2.66	2.66	2.77	0.26				
	22 1/2	1.66	2.16	2.69	0.13				
	11 1/4	1.66	2.16	2.67	0.13				
10" & 12"	90	4.83	3.83	3.42	0.83	3.83	4.00	2.83	0.52
	45	3.33	3.58	2.95	0.43				
	22 1/2	2.33	2.58	2.86	0.24				
	11 1/4	1.83	2.33	2.84	0.18				

1. THRUST BLOCKS ARE REQUIRED WHENEVER THE PIPELINE : CHANGES DIRECTION, CHANGES SIZE, DEAD ENDS AND AT VALVES.
2. USE 2500 P.S.I. CONCRETE.
3. NO CONCRETE SHALL BE POURED ON ANY PART OF THE JOINT.
4. THE CONSULTING ENGINEER SHALL BE RESPONSIBLE TO THE VERIFY THE TYPE & SIZE OF ALL THRUST BLOCKS.

CONCRETE THRUST BLOCKS

NTS
FIG. W–3

TD–3

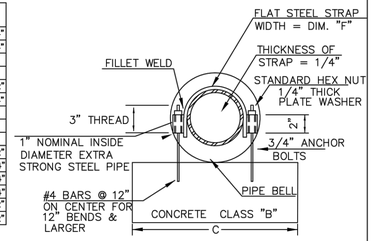


ELEVATION

PAINT ALL EXPOSED STEEL WITH 2 COATS OF BITUMINOUS PAINT.

BEND	PIPE SIZE	A	B	C	D	E	F
11 1/4°	4" – 6"	1'–9"	2'–3"	2'–6"	1'–2"	2'–0"	1 1/4"
	8"	2'–3"	3'–0"	2'–6"	1'–6"	2'–6"	1 1/4"
	10"	2'–9"	3'–9"	2'–6"	2'–0"	3'–0"	2"
	12"	3'–0"	4'–3"	3'–0"	2'–3"	3'–6"	2"
	18"	3'–6"	5'–6"	3'–3"	3'–0"	4'–6"	2 1/2"
22 1/2°	4" – 6"	2'–6"	3'–0"	2'–6"	1'–6"	2'–8"	1 1/4"
	8"	3'–0"	4'–3"	2'–6"	2'–6"	3'–3"	2"
	10"	3'–3"	5'–0"	3'–0"	2'–9"	3'–9"	2"
	12"	3'–9"	6'–3"	3'–0"	3'–6"	4'–3"	2"
	18"	5'–0"	7'–6"	3'–3"	4'–0"	5'–8"	2 1/2"
45°	4" – 6"	3'–0"	6'–0"	3'–0"	3'–3"	3'–3"	2 1/4"
	8"	3'–6"	6'–6"	3'–0"	3'–8"	3'–9"	2 1/4"
	10"	4'–6"	7'–6"	3'–0"	4'–3"	5'–0"	2 1/4"
	12"	5'–3"	9'–0"	3'–3"	5'–0"	5'–9"	2 1/2"
	18"	6'–6"	11'–0"	3'–9"	6'–0"	7'–3"	2 1/2"

CHART FOR UPPER VERTICAL BLOCKING



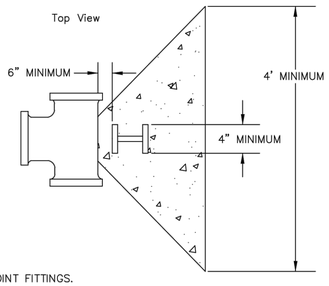
SECTION

NOTE: STANDARD 90° HOOK ON END OF ANCHOR BOLTS TO FACE CENTER OF BLOCKS.

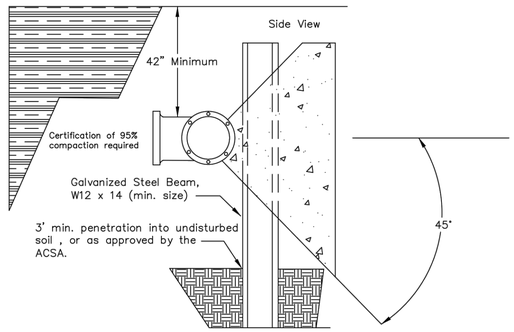
CONCRETE BLOCKING FOR UPPER VERTICAL BENDS

N.T.S.
FIG. W–3A

TD–4



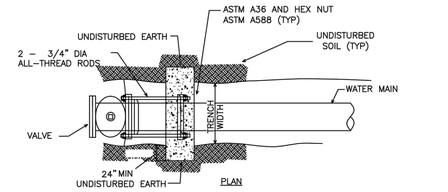
NOTE: RESTRAINED JOINT FITTINGS.



TYPICAL THRUST BLOCK IN FILL AREA

NTS
FIG. W–3B

TD–5



NOTE:

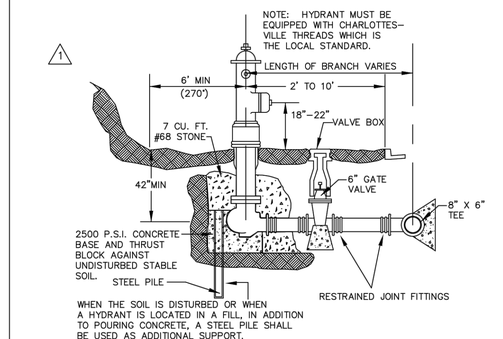
1. ALL RODS AND FASTENERS SHALL BE GIVEN TWO COATS OF ASPHALTIC PAINT AFTER ASSEMBLY.
2. CONTRACTOR SHALL ENSURE THAT THE COLLAR BEARS AGAINST UNDISTURBED SOIL FOR THE MINIMUM DIMENSION SHOWN.
3. DIMENSIONS SHOWN BEYOND THE TRENCH WIDTH ARE ABSOLUTE MINIMUM. IF THE TRENCH WIDTH IS LARGER DURING CONSTRUCTION, THE COLLAR DIMENSIONS SHALL INCREASE ACCORDINGLY.

CROSS ANCHOR RESTRAINTS FOR VALVES

NTS

Fig. W–3C

TD–6



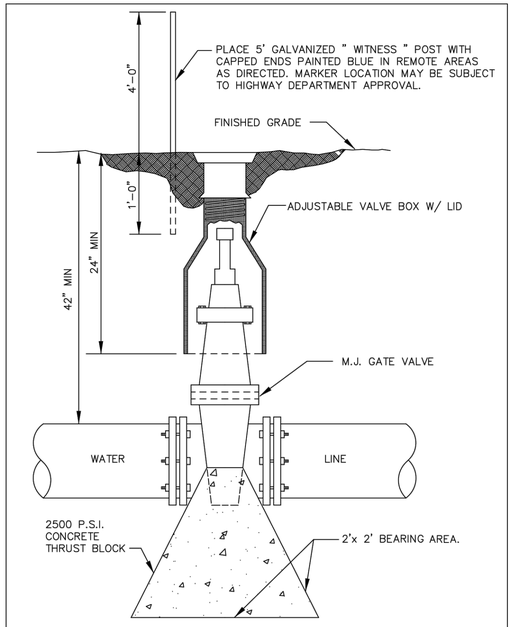
NOTE :

1. SURROUND WEEP HOLES WITH GRAVEL AND KEEP FREE OF CONCRETE.
2. MAINTAIN A 3 1/2' MIN. COVER FROM THE MAIN TO THE FIRE HYDRANT (INCLUDING DITCHES)
3. FINISHED GRADE SHALL SLOPE AWAY FROM THE FIRE HYDRANT AND VALVE BOX.
4. THE GATE VALVE IS ALLOWED IN SHOULDER OR BEHIND THE DITCH. IT IS NOT ALLOWED IN THE DITCH.
5. FIRE HYDRANTS SHALL BE INSTALLED AT LOCATIONS WHERE WEEP HOLES ARE ABOVE THE PREVAILING GROUNDWATER ELEVATION. IF REQUIRED TO BE IN WET AREAS, THE WEEP HOLES SHALL BE PLUGGED AND THE HYDRANT SHALL BE PUMPED DRY.

TYPICAL FIRE HYDRANT ASSEMBLY DETAIL

N.T.S.
FIG. W–4

TD–8

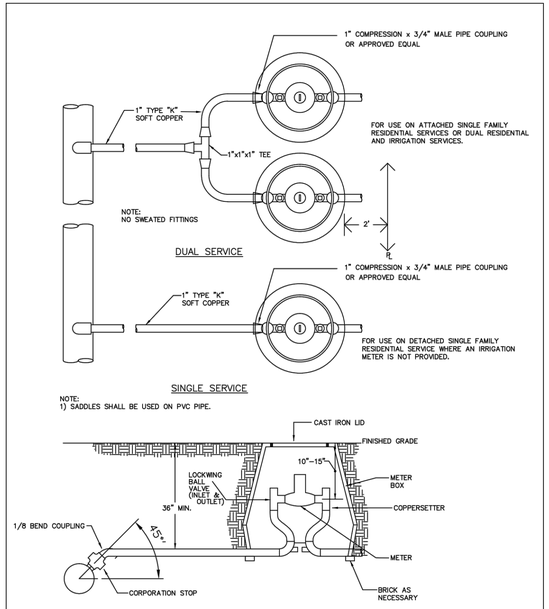


NOTE : IN REMOTE AREAS, VALVE BOXES SHALL EXTEND SIX (6) INCHES ABOVE GRADE.

TYPICAL GATE VALVE

NTS
FIG. W–5

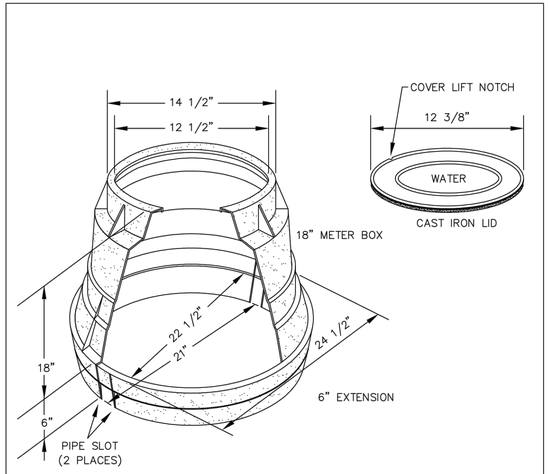
TD–9



TYPICAL SERVICE LATERAL INSTALLATION (5/8" & 1" METERS)

NTS
FIG. W–6A

TD–10



NOTES:
(1) A 1–3/4" DIAMETER HOLE IS REQUIRED IN THE LID FOR TOUCH READ METERS.

TYPICAL METER BOXES (5/8"–1" METERS)

NTS
FIG. W–7

TD–13

COMMONWEALTH OF VIRGINIA
Jonathan Showalter
JONATHAN M. SHOWALTER
Lic. No. 0402057151
10/28/2020
PROFESSIONAL ENGINEER

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TIMMONS GROUP

ALBEMARLE COUNTY SIDEWALKS
COUNTY OF ALBEMARLE, VIRGINIA
NOTES & DETAILS

DATE
10/28/2020
DRAWN BY
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SCALE
N/A

JOB NO. 33882.005
SHEET NO. 2E(5)

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GENERAL CONSTRUCTION NOTES FOR EROSION AND SEDIMENT CONTROL

1. THE PLAN APPROVING AUTHORITY MUST BE NOTIFIED ONE WEEK PRIOR TO THE PRE-CONSTRUCTION CONFERENCE, ONE WEEK PRIOR TO THE COMMENCEMENT OF LAND DISTURBING ACTIVITY, AND ONE WEEK PRIOR TO THE FINAL INSPECTION.
2. ALL EROSION AND SEDIMENT CONTROL MEASURES WILL BE CONSTRUCTED AND MAINTAINED ACCORDING TO MINIMUM STANDARDS AND SPECIFICATIONS OF THE VIRGINIA EROSION AND SEDIMENT CONTROL HANDBOOK AND VIRGINIA REGULATIONS VR 625-02-00 EROSION AND SEDIMENT CONTROL REGULATIONS.
3. ALL EROSION AND SEDIMENT CONTROL MEASURES ARE TO BE PLACED PRIOR TO OR AS THE FIRST STEP IN CLEARING.
4. A COPY OF THE APPROVED EROSION AND SEDIMENT CONTROL PLAN SHALL BE MAINTAINED ON THE SITE AT ALL TIMES.
5. PRIOR TO COMMENCING LAND DISTURBING ACTIVITIES IN AREAS OTHER THAN INDICATED ON THESE PLANS (INCLUDING, BUT NOT LIMITED TO, OFF-SITE BORROW OR WASTE AREAS), THE CONTRACTOR SHALL SUBMIT A SUPPLEMENTARY EROSION CONTROL PLAN TO THE OWNER FOR REVIEW AND APPROVAL BY THE PLAN APPROVING AUTHORITY.
6. THE CONTRACTOR IS RESPONSIBLE FOR INSTALLATION OF ANY ADDITIONAL EROSION CONTROL MEASURES NECESSARY TO PREVENT EROSION AND SEDIMENTATION AS DETERMINED BY THE PLAN APPROVING AUTHORITY.
7. ALL DISTURBED AREAS ARE TO DRAIN TO APPROVED SEDIMENT CONTROL MEASURES AT ALL TIMES DURING LAND DISTURBING ACTIVITIES AND DURING SITE DEVELOPMENT UNTIL FINAL STABILIZATION IS ACHIEVED.
8. DURING DEWATERING OPERATIONS, WATER WILL BE PUMPED INTO AN APPROVED FILTERING DEVICE.
9. THE CONTRACTOR SHALL INSPECT ALL EROSION CONTROL MEASURES PERIODICALLY AND AFTER EACH RUNOFF-PRODUCING EVENT. ANY NECESSARY REPAIRS OR CLEANUP TO MAINTAIN THE EFFECTIVENESS OF THE EROSION CONTROL DEVICES SHALL BE MADE IMMEDIATELY.
10. ALL FILL MATERIAL TO BE TAKEN FROM AN APPROVED, DESIGNATED BORROW AREA.
11. ALL WASTE MATERIALS SHALL BE TAKEN TO AN APPROVED WASTE AREA. EARTH FILL SHALL BE INERT MATERIALS ONLY, FREE OF ROOTS, STUMPS, WOOD, RUBBISH, AND OTHER DEBRIS.
12. BORROW OR WASTE AREAS ARE TO BE RECLAIMED WITHIN 7 DAYS OF COMPLETION PER ZONING ORDINANCE SECTION 5.1.28.
13. ALL INERT MATERIALS SHALL BE TRANSPORTED IN COMPLIANCE WITH SECTION 13-301 OF THE CODE OF ALBEMARLE.
14. BORROW, FILL OR WASTE ACTIVITY INVOLVING INDUSTRIAL-TYPE POWER EQUIPMENT SHALL BE LIMITED TO THE HOURS OF 7:00AM TO 9:00PM.
15. BORROW, FILL OR WASTE ACTIVITY SHALL BE CONDUCTED IN A SAFE MANNER THAT MAINTAINS LATERAL SUPPORT, OR ORDER TO MINIMIZE ANY HAZARD TO PERSONS, PHYSICAL DAMAGE TO ADJACENT LAND AND STRUCTURES/IMPROVEMENTS, AND DAMAGE TO ANY PUBLIC STREET BECAUSE OF SLIDES, SINKING, OR COLLAPSE.
16. THE DEVELOPER SHALL RESERVE THE RIGHT TO INSTALL, MAINTAIN, REMOVE OR CONVERT TO PERMANENT STORMWATER MANAGEMENT FACILITIES WHERE APPLICABLE ALL EROSION CONTROL MEASURES REQUIRED BY THIS PLAN REGARDLESS OF THE SALE OF ANY LOT, UNIT, BUILDING OR OTHER PORTION OF THE PROPERTY.
17. TEMPORARY STABILIZATION SHALL BE TEMPORARY SEEDING AND MULCHING. SEEDING IS TO BE AT 75 LBS/ACRE, AND IN THE MONTHS OF SEPTEMBER TO FEBRUARY TO CONSIST A 50/50 MIX OF ANNUAL RYEGRASS AND CEREAL WINTER RYE, OR IN MARCH AND APRIL TO CONSIST OF ANNUAL RYE, OR MAY THROUGH AUGUST TO CONSIST OF GERMAN MILLET. STRAW MULCH IS TO BE APPLIED AT 80LBS/100SF. ALTERNATIVES ARE SUBJECT TO APPROVAL BY THE COUNTY EROSION CONTROL INSPECTOR.
18. PERMANENT STABILIZATION SHALL BE LIME AND FERTILIZER, PERMANENT SEEDING, AND MULCH. AGRICULTURAL GRADE LIMESTONE SHALL BE APPLIED AT 90LBS/1000SF, INCORPORATED INTO THE TOP 4-6 INCHES OF SOIL. FERTILIZER SHALL BE APPLIED AT 1000LBS/ACRE AND CONSIST OF A 10-20-10 NUTRIENT MIX. PERMANENT SEEDING SHALL BE APPLIED AT 180LBS/ACRE AND CONSIST OF 95% KENTUCKY 31 OR TALL FESCUE AND 0-5% PERENNIAL RYEGRASS OR KENTUCKY BLUEGRASS. STRAW MULCH IS TO BE APPLIED AT 80LBS/100SF. ALTERNATIVES ARE SUBJECT TO APPROVAL BY THE COUNTY EROSION CONTROL INSPECTOR.
19. MAINTENANCE: ALL MEASURES SHALL BE INSPECTED WEEKLY AND AFTER EACH RAINFALL EVENT. ANY DAMAGE OR CLOGGING TO STRUCTURAL MEASURES SHALL BE REPAIRED IMMEDIATELY. SILT TRAPS SHALL BE CLEANED WHEN 50% OF THE WET STORAGE VOLUME IS FILLED WITH SEDIMENT. ALL SEEDED AREAS SHALL BE RESEEDED WHEN NECESSARY TO ACHIEVE A GOOD STAND OF GRASS. SILT FENCE AND DIVERSION DYKES WHICH COLLECT SEDIMENT TO HALF THEIR HEIGHT MUST BE CLEANED AND REPAIRED IMMEDIATELY.
20. ALL TEMPORARY EROSION AND SEDIMENT CONTROL MEASURES SHALL BE REMOVED WITHIN 30 DAYS OF FINAL SITE STABILIZATION, WHEN MEASURES ARE NO LONGER NEEDED, SUBJECT TO APPROVAL BY THE COUNTY EROSION CONTROL INSPECTOR.

NOTE:

1. CONTRACTOR MUST KEEP THE EXISTING ROAD FREE OF SOIL.
2. THE CONTRACTOR MUST DETERMINE A STOCKPILE AREAS (IF REQUIRED). IF AREA IS OUTSIDE THE LIMITS OF DISTURBANCE AS SHOWN IN THESE PLANS, THE LOCATION MUST BE SUBMITTED TO AND APPROVED BY ALBEMARLE COUNTY ENVIRONMENTAL ENGINEERING PRIOR TO CONSTRUCTION.
3. CONTRACTOR SHALL NOTIFY THE ENVIRONMENT INSPECTOR AT THE PRE- CONSTRUCTION MEETING OF THE PERMITTED LOCATION EXCESS SOIL MATERIAL WILL BE HAULED TO OR BORROW MATERIAL WILL BE BROUGHT FROM.

EROSION AND SEDIMENT CONTROL NARRATIVE:

PROJECT DESCRIPTION
THIS PROJECT, IN ALBEMARLE COUNTY, INCLUDES CONSTRUCTION OF SEVERAL DIFFERENT SECTION OF SIDEWALK ALONG ROCKFISH GAP TURNPIKE, RIO ROAD, AND AVON STREET EXTENDED.

ADJACENT PROPERTY
THE AREAS OF CONDUCTION ARE SURROUNDED BY RESIDENTIAL, COMMERCIAL PROPERTIES AND EDUCATIONAL FACILITIES.

EXISTING SITE CONDITIONS
THE CURRENT CONDITIONS VARY AND INCLUDED ROADSIDE DITCHES, ASPHALT LANES AND GRASS STEEP SLOPES.

OFF-SITE AREAS
THE MAJORITY OF CONSTRUCTION WILL TAKE PLACE INSIDE OF THE VDOT RIGHT OF WAY. ADDITIONAL RIGHT OF WAY AND EASEMENTS WILL BE PURCHASED AS SHOWN ON THE PLANS.

CRITICAL EROSION AREAS
EARLY ESTABLISHMENT AND PROPER MAINTENANCE OF PERIMETER CONTROLS WILL PROVIDE SEDIMENTATION CONTROL. ADDITIONAL ATTENTION IS TO BE FOCUSED ON DISTURBANCE IN THE AREAS OF STEEP SLOPES SUCH AS THOSE ALONG THE SOUTHER PART OF AVON. CONTRACTOR TO DEVELOP AND PRESENT MEANS AND METHODS FOR CONSTRUCTION THAT AREA ACCEPTABLE TO ESC INSPECTOR AND VDOT BEFORE BE BEGINNING DISTURBANCE.

EROSION AND SEDIMENT CONTROL MEASURES
UNLESS OTHERWISE INDICATED, ALL VEGETATIVE AND STRUCTURAL EROSION AND SEDIMENT CONTROL PRACTICES SHALL BE CONSTRUCTED AND MAINTAINED ACCORDING TO MINIMUM STANDARDS AND SPECIFICATIONS OF THE CURRENT ADDITION OF THE VIRGINIA EROSION AND SEDIMENT CONTROL HANDBOOK. THE MINIMUM STANDARDS OF THE VESCH SHALL BE ADHERED TO UNLESS OTHERWISE WAIVED OR APPROVED BY A VARIANCE BY LOCAL AUTHORITIES HAVING JURISDICTION.

STRUCTURAL PRACTICES:

1. TEMPORARY CONSTRUCTION ENTRANCE - 3.02 A TEMPORARY CONSTRUCTION ENTRANCE SHALL BE PROVIDED AT THE LOCATION INDICATED ON THE PLANS. IT IS IMPERATIVE THAT THIS MEASURE BE MAINTAINED THROUGHOUT CONSTRUCTION. ITS PURPOSE IS TO REDUCE THE AMOUNT OF MUD TRANSPORTED ONTO PAVED PUBLIC ROADS BY MOTOR VEHICLES OR RUNOFF.
2. SILT FENCE BARRIER - 3.05 SILT FENCE SEDIMENT BARRIERS SHALL BE INSTALLED DOWNSLOPE OF AREAS WITH MINIMAL GRADES TO FILTER SEDIMENT-LADEN RUNOFF FROM SHEET FLOW AS INDICATED. ITS PURPOSE IS TO INTERCEPT SMALL AMOUNTS OF SEDIMENT FROM DISTURBED AREAS AND PREVENT SEDIMENT FROM LEAVING THE SITE.
3. STORM DRAIN INLET PROTECTION - 3.07 STONE FILTERS SHALL BE PLACED AT THE INLET OF ALL DRAINAGE STRUCTURES AS INDICATED ON PLANS. ITS PURPOSE IS TO PREVENT SEDIMENT FROM ENTERING THE STORM DRAINAGE SYSTEM PRIOR TO PERMANENT STABILIZATION.
4. CULVERT INLET PROTECTION - 3.08 A SEDIMENT FILTER PLACED AT THE INLET OF A CULVERT TO PREVENT SEDIMENT FROM ENTERING THE SYSTEM PRIOR TO PERMANENT STABILIZATION.
8. OUTLET PROTECTION - 3.18 STRUCTURALLY LINED APRONS PLACED AT THE OUTLETS OF PIPES OR CHANNEL SECTIONS TO PREVENT SCOUR AND PROTECT THE OUTLET STRUCTURE.
9. ROCK CHECK DAM - 3.20 SMALL TEMPORARY STONE DAM CONSTRUCTED ACROSS A SWALE OR DRAINAGE DITCH.
10. TREE PROTECTION - 3.38 PROTECTION OF DESIRABLE TREES FROM MECHANICAL AND OTHER INJURY DURING LAND DISTURBING AND CONSTRUCTION ACTIVITY.
11. DUST CONTROL - 3.39 DUST CONTROL IS TO BE USED THROUGH THE SITE IN AREAS SUBJECT TO SURFACE AND AIR MOVEMENT.

VEGETATIVE PRACTICES:

1. TOPSOIL (TEMPORARY STOCKPILE) - 3.30 TOPSOIL SHALL BE STRIPPED FROM AREAS TO BE GRADED AND STOCKPILED FOR LATER SPREADING. STOCKPILE LOCATIONS SHALL BE LOCATED ONSITE AND SHALL BE STABILIZED WITH TEMPORARY SILT FENCE AND VEGETATION.
2. TEMPORARY SEEDING - 3.31 ALL DENUDED AREAS WHICH WILL BE LEFT DORMANT FOR MORE THAN 30 DAYS SHALL BE SEEDED WITH FAST GERMINATING TEMPORARY VEGETATION IMMEDIATELY FOLLOWING GRADING OF THOSE AREAS. SELECTION OF THE SEED MIXTURE SHALL DEPEND ON THE TIME OF YEAR IT IS APPLIED.
3. PERMANENT SEEDING - 3.32 FOLLOWING GRADING ACTIVITIES, ESTABLISH PERENNIAL VEGETATIVE COVER BY PLANTING SEED TO REDUCE EROSION, STABILIZE DISTURBED AREAS, AND ENHANCE NATURAL BEAUTY.

MANAGEMENT STRATEGIES

1. PROVIDE SEDIMENT TRAPPING MEASURES AS A FIRST STEP IN GRADING, SEED AND MULCH IMMEDIATELY FOLLOWING INSTALLATION.
2. PROVIDE TEMPORARY SEEDING OR OTHER STABILIZATION IMMEDIATELY AFTER GRADING.
3. ISOLATE TRENCHING FOR UTILITIES AND DRAINAGE FROM DOWNSTREAM CONVEYANCES IN ORDER TO MINIMIZE PERIMETER CONTROLS.
4. ALL EROSION AND SEDIMENT CONTROL PRACTICES SHALL BE MAINTAINED UNTIL THEY ARE NO LONGER REQUIRED TO COMPLY WITH THE CONTRACT DOCUMENTS OR STATE LAW.

PERMANENT STABILIZATION
ALL NON-PAVED AREAS DISTURBED BY CONSTRUCTION SHALL BE STABILIZED WITH PERMANENT SEEDING IMMEDIATELY FOLLOWING FINISHED GRADING. SEEDING SHALL BE IN ACCORDANCE WITH STD. & SPEC. 3.32, PERMANENT SEEDING. SEED TYPE SHALL BE AS SPECIFIED FOR "MINIMUM CARE LAWNS" AND "GENERAL SLOPES" IN THE HANDBOOK FOR SLOPES LESS THAN 3:1. FOR SLOPES GREATER THAN 3:1, SEED TYPE SHALL BE AS SPECIFIED FOR "LOW MAINTENANCE SLOPES" IN TABLE 3.32-D OF THE HANDBOOK. FOR MULCH (STRAW OR FIBER) SHALL BE USED ON ALL SEEDED SURFACES. IN ALL SEEDING OPERATIONS SEED, FERTILIZER AND LIME SHALL BE APPLIED PRIOR TO MULCHING.

MAINTENANCE (SEE "MINIMUM STANDARDS" FOR ADDITIONAL INFORMATION).
ALL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE CHECKED DAILY AND AFTER EACH RUN-OFF PRODUCING RAINFALL. THE FOLLOWING ITEMS SHALL BE CHECKED IN PARTICULAR

1. CHECK THE SILT FENCE BARRIER FOR UNDERMINING OR DETERIORATION OF THE FABRIC. REMOVE SEDIMENT WHEN THE LEVEL OF SEDIMENT DEPOSITION REACHES HALFWAY TO THE TOP OF THE BARRIER.
2. CHECK THE SEEDING AREAS TO ENSURE THAT A STAND OF GRASS IS MAINTAINED. FERTILIZE AND RESEED AS NEEDED.
3. CHECK THE CULVERT INLET PROTECTION FOR SEDIMENT BUILDUP. CLEAN OR REPLACE AGGREGATE IF CLOGGED BY SEDIMENT. REMOVE SEDIMENT AND RESTORE THE IMPOUNDMENT TO ITS ORIGINAL DIMENSIONS WHEN SEDIMENT HAS ACCUMULATED TO ONE HALF OF THE DESIGN DEPTH.

CONSTRUCTION SEQUENCE:

SEQUENCE OF INSTALLATION

1. SCHEDULE A PRECONSTRUCTION MEETING, GIVE A 48-HOUR NOTIFICATION OF THE PRECONSTRUCTION MEETING AND A CERTIFIED RESPONSIBLE LAND DISTURBER (CRLD) MUST BE PRESENT AT THE MEETING.
2. PROVIDE MINIMAL CLEARING TO INSTALL SILT FENCE JUST BEYOND EXTENTS OF THE CUT SLOPE. TAKE SPECIAL CARE TO KEEP SOIL BUILD-UP FROM ENTERING THE EXISTING BELMONT ROAD PAVEMENT.
4. INSTALL INLET PROTECTION AND CULVERT INLET PROTECTION TO EXISTING STRUCTURES. INSTALL CHECK DAMS IN EXISTING DITCHES.
5. CLEAR AND GRUB AS INDICATED IN THE PLANS. MAINTAIN ACCESS TO EXISTING DRIVEWAYS ROAD.
6. TEMPORARY GRADING AND SEEDING IS REQUIRED WITHIN 7 DAYS OF DISTURBANCE FOR ALL AREAS WHICH ARE NOT TO BE ACTIVELY CONSTRUCTED UPON WITHIN 14 DAYS OF INITIAL DISTURBANCE.
7. COUNTY INSPECTOR OR VDOT MAY REQUIRE ADDITIONAL EROSION CONTROL MEASURES BASED ON FIELD CONDITIONS DURING CONSTRUCTION.
8. COMMENCE ROUGH GRADING OF SIDEWALK AND SLOPE AREAS AND INSTALL UTILITIES AND STORM SEWER PIPES AND STRUCTURES AS REACHED.
9. INSTALL ADDITIONAL INLET PROTECTION AND CULVERT INLET PROTECTION AS THE STORM SYSTEM IS CONSTRUCTED AND BECOMES OPERATIONAL.
10. FINE GRADE PROJECT AREA. APPLY PERMANENT SOIL STABILIZATION TO THESE AREAS WITHIN SEVEN DAYS AFTER FINAL GRADE IS ACHIEVED.INSTALL THE STONE BASE FOR THE NARROW STRIPS OF ROAD WIDENING AND ANY INTERMEDIATE AND/OR TOP COATS OF ASPHALT ONCE FINAL GRADES ARE REACHED.
11. ALL STORMWATER PIPING & STRUCTURES, SHALL BE INSPECTED FOR SILT/SEDIMENT. IF PRESENT, SILT/SEDIMENT SHALL BE CLEANED OUT FOR THE SYSTEM TO THE SATISFACTION OF THE ESC INSPECTOR.
4. ONCE CONSTRUCTION IS COMPLETE AND ALL CONTRIBUTING AREAS ARE STABILIZED, EROSION CONTROL MEASURES CAN BE REMOVED UPON APPROVAL FROM THE ESC INSPECTOR.
5. ADDITIONAL EROSION CONTROL MEASURES MAY BE REQUESTED BY THE COUNTY INSPECTOR AT ANY TIME DURING LAND DISTURBANCE.

GENERAL EROSION AND SEDIMENT CONTROL NOTES:

EROSION AND SEDIMENT CONTROL NOTES

ES-1: ALL VEGETATIVE AND STRUCTURAL EROSION AND SEDIMENT CONTROL PRACTICES WILL BE CONSTRUCTED AND MAINTAINED ACCORDING TO MINIMUM STANDARDS AND SPECIFICATIONS OF THE VIRGINIA EROSION AND SEDIMENT CONTROL HANDBOOK AND VIRGINIA REGULATIONS 4VAC 50-30 E&S REGULATIONS.

ES-2: THE EROSION AND SEDIMENT CONTROL AUTHORITY MUST BE NOTIFIED ONE WEEK PRIOR TO THE COMMENCEMENT OF LAND DISTURBING ACTIVITY AND ONE WEEK PRIOR TO FINAL INSPECTION.

ES-3: E&S CONTROL MEASURES ARE TO BE INSTALLED PRIOR TO OR AS THE FIRST STEP IN LAND DISTURBING ACTIVITIES.

ES-4: A COPY OF THE APPROVED E&S CONTROL PLAN SHALL BE MAINTAINED ON THE SITE AT ALL TIMES.

ES-5: PRIOR TO COMMENCING LAND DISTURBING ACTIVITIES IN AREAS OTHER THAN INDICATED ON THESE PLANS, THE CONTRACTOR SHALL SUBMIT A SUPPLEMENTARY EROSION CONTROL PLAN TO THE OWNER FOR REVIEW AND APPROVAL BY THE PLAN APPROVING AUTHORITY.

ES-6: IF THE APPROVED EROSION CONTROL STRUCTURES DO NOT SUCCESSFULLY CONTROL SOIL EROSION THE CONTRACTOR IS RESPONSIBLE FOR INSTALLATION OF ADDITIONAL EROSION CONTROL MEASURES NECESSARY TO PREVENT EROSION AND SEDIMENTATION AS DETERMINED BY THE PLAN APPROVING AUTHORITY, AT NO ADDITIONAL COST TO THE THE EROSION AND SEDIMENT CONTROL AUTHORITY.

ES-7: ALL DISTURBED AREAS ARE TO DRAIN TO APPROVED SEDIMENT CONTROL MEASURES AT ALL TIMES DURING LAND DISTURBING ACTIVITIES AND DURING SITE DEVELOPMENT UNTIL FINAL STABILIZATION IS ACHIEVED.

ES-8: THE CONTRACTOR SHALL INSPECT ALL EROSION CONTROL MEASURES WEEKLY AND AFTER EACH RUNOFF PRODUCING RAINFALL. ANY NECESSARY REPAIRS NEEDED TO MAINTAIN THE EFFECTIVENESS OF THE E&S STRUCTURES OR SYSTEMS SHALL BE MADE IMMEDIATELY.

ES-9: PERMANENT OR TEMPORARY SOIL STABILIZATION SHALL BE INSTALLED TO DENUDED AREAS WITHIN SEVEN DAYS AFTER FINAL GRADE IS REACHED ON ANY PORTION OF THE SITE. TEMPORARY SOIL STABILIZATION SHALL BE APPLIED WITHIN SEVEN DAYS TO DENUDED AREAS THAT MAY NOT BE AT FINAL GRADE BUT WILL REMAIN DORMANT (UNDISTURBED) FOR LONGER THAN 14 DAYS. PERMANENT STABILIZATION SHALL BE APPLIED TO AREAS THAT ARE TO BE LEFT DORMANT FOR MORE THAN ONE YEAR. ALL MUST BE COMPLETED ACCORDING TO THE STANDARDS AND SPECIFICATIONS SECTION 3.31 AND 3.32 IN THE VIRGINIA E&S CONTROL HANDBOOK.

ES-10: ALL SEEDING SHALL BE MULCHED IN ACCORDANCE WITH THE VIRGINIA E&S STANDARDS AND SPECIFICATIONS ON MULCHING SECTION 3.35.

ES-11: TEMPORARY AND PERMANENT SEED VARIETIES SHOULD BE CONSISTENT WITH THE E&S HANDBOOK FOR THE PIEDMONT REGION OF VIRGINIA UNLESS OTHERWISE APPROVED BY THE EROSION AND SEDIMENT CONTROL AUTHORITY.

ES-12: PERMANENT STABILIZATION WILL NOT BE ACCEPTED BY THE EROSION AND SEDIMENT CONTROL AUTHORITY UNTIL IT IS UNIFORM, MATURE ENOUGH TO SURVIVE, AND INHIBITS EROSION.

ES-13: ONCE THE DISTURBED AREAS HAVE BEEN STABILIZED TO THE SATISFACTION OF THE ESC INSPECTOR, ALL EROSION CONTROL STRUCTURES SHALL BE REMOVED.

MINIMUM STANDARDS:

AN EROSION AND SEDIMENT CONTROL PROGRAM ADOPTED BY A DISTRICT OR LOCALITY MUST BE CONSISTENT WITH THE FOLLOWING CRITERIA, TECHNIQUES AND METHODS:

MS-1. PERMANENT OR TEMPORARY SOIL STABILIZATION SHALL BE APPLIED TO DENUDED AREAS WITHIN SEVEN DAYS AFTER FINAL GRADE IS REACHED ON ANY PORTION OF THE SITE. TEMPORARY SOIL STABILIZATION SHALL BE APPLIED WITHIN SEVEN DAYS TO DENUDED AREAS THAT MAY NOT BE AT FINAL GRADE BUT WILL REMAIN DORMANT FOR LONGER THAN 14 DAYS. PERMANENT STABILIZATION SHALL BE APPLIED TO AREAS THAT ARE TO BE LEFT DORMANT FOR MORE THAN ONE YEAR.

MS-2. DURING CONSTRUCTION OF THE PROJECT, SOIL STOCKPILES AND BORROW AREAS SHALL BE STABILIZED OR PROTECTED WITH SEDIMENT TRAPPING MEASURES. THE APPLICANT IS RESPONSIBLE FOR THE TEMPORARY PROTECTION AND PERMANENT STABILIZATION OF ALL SOIL STOCKPILES ON SITE AS WELL AS BORROW AREAS AND SOIL INTENTIONALLY TRANSPORTED FROM THE PROJECT SITE.

MS-3. A PERMANENT VEGETATIVE COVER SHALL BE ESTABLISHED ON DENUDED AREAS NOT OTHERWISE PERMANENTLY STABILIZED. PERMANENT VEGETATION SHALL NOT BE CONSIDERED ESTABLISHED UNTIL A GROUND COVER IS ACHIEVED THAT IS UNIFORM, MATURE ENOUGH TO SURVIVE AND WILL INHIBIT EROSION.

MS-4. SEDIMENT BASINS AND TRAPS, PERIMETER DIKES, SEDIMENT BARRIERS AND OTHER MEASURES INTENDED TO TRAP SEDIMENT SHALL BE CONSTRUCTED AS A FIRST STEP IN ANY LAND-DISTURBING ACTIVITY AND SHALL BE MADE FUNCTIONAL BEFORE UPSLOPE LAND DISTURBANCE TAKES PLACE.

MS-5. STABILIZATION MEASURES SHALL BE APPLIED TO EARTHEN STRUCTURES SUCH AS DAMS, DIKES AND DIVERSIONS IMMEDIATELY AFTER INSTALLATION.

MS-6. SEDIMENT TRAPS AND SEDIMENT BASINS SHALL BE DESIGNED AND CONSTRUCTED BASED UPON THE TOTAL DRAINAGE AREA TO BE SERVED BY THE TRAP OR BASIN.
A. THE MINIMUM STORAGE CAPACITY OF A SEDIMENT TRAP SHALL BE 134 CUBIC YARDS PER ACRE OF DRAINAGE AREA AND THE TRAP SHALL ONLY CONTROL DRAINAGE AREAS LESS THAN THREE ACRES.
B. SURFACE RUNOFF FROM DISTURBED AREAS THAT IS COMPRISED OF FLOW FROM DRAINAGE AREAS GREATER THAN OR EQUAL TO THREE ACRES SHALL BE CONTROLLED BY A SEDIMENT BASIN. THE MINIMUM STORAGE CAPACITY OF A SEDIMENT BASIN SHALL BE 134 CUBIC YARDS PER ACRE OF DRAINAGE AREA. THE OUTFALL SYSTEM SHALL, AT A MINIMUM, MAINTAIN THE STRUCTURAL INTEGRITY OF THE BASIN DURING A 25-YEAR STORM OF 24-HOUR DURATION. RUNOFF COEFFICIENTS USED IN RUNOFF CALCULATIONS SHALL CORRESPOND TO A BARE EARTH CONDITION OR THOSE CONDITIONS EXPECTED TO EXIST WHILE THE SEDIMENT BASIN IS UTILIZED.

MS-7. CUT AND FILL SLOPES SHALL BE DESIGNED AND CONSTRUCTED IN A MANNER THAT WILL MINIMIZE EROSION. SLOPES THAT ARE FOUND TO BE ERODING EXCESSIVELY WITHIN ONE YEAR OF PERMANENT STABILIZATION SHALL BE PROVIDED WITH ADDITIONAL SLOPE STABILIZING MEASURES UNTIL THE PROBLEM IS CORRECTED.

MS-8. CONCENTRATED RUNOFF SHALL NOT FLOW DOWN CUT OR FILL SLOPES UNLESS CONTAINED WITHIN AN ADEQUATE TEMPORARY OR PERMANENT CHANNEL, FLUME OR SLOPE DRAIN STRUCTURE.

MS-9. WHENEVER WATER SEEPS FROM A SLOPE FACE, ADEQUATE DRAINAGE OR OTHER PROTECTION SHALL BE PROVIDED.

MS-10. ALL STORM SEWER INLETS THAT ARE MADE OPERABLE DURING CONSTRUCTION SHALL BE PROTECTED SO THAT SEDIMENT-LADEN WATER CANNOT ENTER THE CONVEYANCE SYSTEM WITHOUT FIRST BEING FILTERED OR OTHERWISE TREATED TO REMOVE SEDIMENT.

MS-11. BEFORE NEWLY CONSTRUCTED STORMWATER CONVEYANCE CHANNELS OR PIPES ARE MADE OPERATIONAL, ADEQUATE OUTLET PROTECTION AND ANY REQUIRED TEMPORARY OR PERMANENT CHANNEL LINING SHALL BE INSTALLED IN BOTH THE CONVEYANCE CHANNEL AND RECEIVING CHANNEL.

MS-12. WHEN WORK IN A LIVE WATERCOURSE IS PERFORMED, PRECAUTIONS SHALL BE TAKEN TO MINIMIZE ENCROACHMENT, CONTROL SEDIMENT TRANSPORT AND STABILIZE THE WORK AREA TO THE GREATEST EXTENT POSSIBLE DURING CONSTRUCTION. NONERODIBLE MATERIAL SHALL BE USED FOR THE CONSTRUCTION OF CAUSEWAYS AND COFFERDAMS. EARTHEN FILL MAY BE USED FOR THESE STRUCTURES IF ARMORED BY NONERODIBLE COVER MATERIALS.

MS-13. WHEN A LIVE WATERCOURSE MUST BE CROSSED BY CONSTRUCTION VEHICLES MORE THAN TWICE IN ANY SIX-MONTH PERIOD, A TEMPORARY VEHICULAR STREAM CROSSING CONSTRUCTED OF NONERODIBLE MATERIAL SHALL BE PROVIDED.

MS-14. ALL APPLICABLE FEDERAL, STATE AND LOCAL REGULATIONS PERTAINING TO WORKING IN OR CROSSING LIVE WATERCOURSES SHALL BE MET.

MS-15. THE BED AND BANKS OF A WATERCOURSE SHALL BE STABILIZED IMMEDIATELY AFTER WORK IN THE WATERCOURSE IS COMPLETED.

MINIMUM STANDARDS(CONT.):

MS-16. UNDERGROUND UTILITY LINES SHALL BE INSTALLED IN ACCORDANCE WITH THE FOLLOWING STANDARDS IN ADDITION TO OTHER APPLICABLE CRITERIA:
A. NO MORE THAN 500 LINEAR FEET OF TRENCH MAY BE OPENED AT ONE TIME.
B. EXCAVATED MATERIAL SHALL BE PLACED ON THE UPHILL SIDE OF TRENCHES.
C. EFFLUENT FROM DEWATERING OPERATIONS SHALL BE FILTERED OR PASSED THROUGH AN APPROVED SEDIMENT TRAPPING DEVICE, OR BOTH, AND DISCHARGED IN A MANNER THAT DOES NOT ADVERSELY AFFECT FLOWING STREAMS OR OFF-SITE PROPERTY.
D. MATERIAL USED FOR BACKFILLING TRENCHES SHALL BE PROPERLY COMPACTED IN ORDER TO MINIMIZE EROSION AND PROMOTE STABILIZATION.
E. RESTABILIZATION SHALL BE ACCOMPLISHED IN ACCORDANCE WITH THESE REGULATIONS.
F. APPLICABLE SAFETY REGULATIONS SHALL BE COMPLIED WITH.

MS-17. WHERE CONSTRUCTION VEHICLE ACCESS ROUTES INTERSECT PAVED OR PUBLIC ROADS, PROVISIONS SHALL BE MADE TO MINIMIZE THE TRANSPORT OF SEDIMENT BY VEHICULAR TRACKING ONTO THE PAVED SURFACE. WHERE SEDIMENT IS TRANSPORTED ONTO A PAVED OR PUBLIC ROAD SURFACE, THE ROAD SURFACE SHALL BE CLEANED THOROUGHLY AT THE END OF EACH DAY. SEDIMENT SHALL BE REMOVED FROM THE ROADS BY SHOVELING OR SWEEPING AND TRANSPORTED TO A SEDIMENT CONTROL DISPOSAL AREA. STREET WASHING SHALL BE ALLOWED ONLY AFTER SEDIMENT IS REMOVED IN THIS MANNER. THIS PROVISION SHALL APPLY TO INDIVIDUAL DEVELOPMENT LOTS AS WELL AS TO LARGER LAND-DISTURBING ACTIVITIES.

MS-18. ALL TEMPORARY EROSION AND SEDIMENT CONTROL MEASURES SHALL BE REMOVED WITHIN 30 DAYS AFTER FINAL SITE STABILIZATION OR AFTER THE TEMPORARY MEASURES ARE NO LONGER NEEDED, UNLESS OTHERWISE AUTHORIZED BY THE LOCAL PROGRAM AUTHORITY. TRAPPED SEDIMENT AND THE DISTURBED SOIL AREAS RESULTING FROM THE DISPOSITION OF TEMPORARY MEASURES SHALL BE PERMANENTLY STABILIZED TO PREVENT FURTHER EROSION AND SEDIMENTATION.

MS-19. PROPERTIES AND WATERWAYS DOWNSTREAM FROM DEVELOPMENT SITES SHALL BE PROTECTED FROM SEDIMENT DEPOSITION, EROSION AND DAMAGE DUE TO INCREASES IN VOLUME, VELOCITY AND PEAK FLOW RATE OF STORMWATER RUNOFF FOR THE STATED FREQUENCY STORM OF 24-HOUR DURATION IN ACCORDANCE WITH THE FOLLOWING STANDARDS AND CRITERIA:

A. CONCENTRATED STORMWATER RUNOFF LEAVING A DEVELOPMENT SITE SHALL BE DISCHARGED DIRECTLY INTO AN ADEQUATE NATURAL OR MAN-MADE RECEIVING CHANNEL, PIPE OR STORM SEWER SYSTEM. FOR THOSE SITES WHERE RUNOFF IS DISCHARGED INTO A PIPE OR PIPE SYSTEM, DOWNSTREAM STABILITY ANALYSES AT THE OUTFALL OF THE PIPE OR PIPE SYSTEM SHALL BE PERFORMED.

B. ADEQUACY OF ALL CHANNELS AND PIPES SHALL BE VERIFIED IN THE FOLLOWING MANNER:

(1) THE APPLICANT SHALL DEMONSTRATE THAT THE TOTAL DRAINAGE AREA TO THE POINT OF ANALYSIS WITHIN THE CHANNEL IS ONE HUNDRED TIMES GREATER THAN THE CONTRIBUTING DRAINAGE AREA OF THE PROJECT IN QUESTION.

(2) NATURAL CHANNELS SHALL BE ANALYZED BY THE USE OF A TEN-YEAR FREQUENCY STORM TO VERIFY THAT STORMWATER WILL NOT OVERTOP CHANNEL BANKS AND TWO-YEAR VELOCITY TO VERIFY NO EROSION OF CHANNEL BED OR BANKS.

(3) ALL PREVIOUSLY CONSTRUCTED MAN-MADE CHANNELS SHALL BE ANALYZED BY THE USE OF A TEN-YEAR FREQUENCY STORM TO VERIFY THAT STORMWATER WILL NOT OVERTOP ITS BANKS AND BY THE USE OF A TWO-YEAR STORM TO DEMONSTRATE THAT STORMWATER WILL NOT CAUSE EROSION OF CHANNEL BED OR BANKS.

(4) PIPES AND STORM SEWER SYSTEMS SHALL BE ANALYZED BY THE USE OF A TEN-YEAR FREQUENCY STORM TO VERIFY THAT STORMWATER WILL BE CONTAINED WITHIN THE PIPE OR SYSTEM.

C. IF EXISTING NATURAL RECEIVING CHANNELS OR PREVIOUSLY CONSTRUCTED MAN-MADE CHANNELS OR PIPES ARE NOT ADEQUATE, THE APPLICANT SHALL:

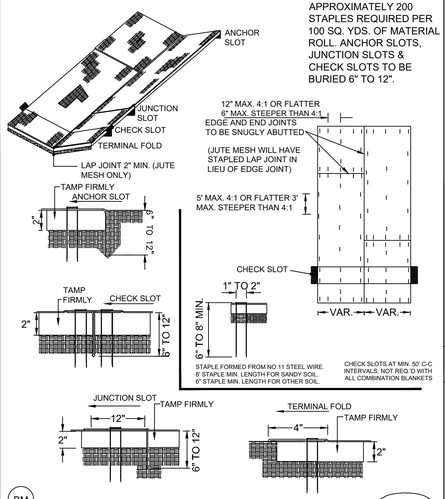
(1) IMPROVE THE CHANNELS TO A CONDITION WHERE A TEN-YEAR FREQUENCY STORM WILL NOT OVERTOP THE BANKS AND A TWO-YEAR FREQUENCY STORM WILL NOT CAUSE EROSION TO THE CHANNEL BED OR BANKS; OR

(2) IMPROVE THE PIPE OR PIPE SYSTEM TO A CONDITION WHERE THE TEN-YEAR FREQUENCY STORM IS CONTAINED WITHIN THE APPURTENANCES; OR

(3) DEVELOP A SITE DESIGN THAT WILL NOT CAUSE THE PRE-DEVELOPMENT PEAK RUNOFF RATE FROM A TWO-YEAR STORM TO INCREASE WHEN RUNOFF OUTFALLS INTO A NATURAL CHANNEL OR WILL NOT CAUSE THE PRE-DEVELOPMENT PEAK RUNOFF RATE FROM A TEN-YEAR STORM TO INCREASE WHEN RUNOFF OUTFALLS INTO A M

TYPICAL VESCH TREATMENT - 1 (SOIL STABILIZATION BLANKET) INSTALLATION CRITERIA

NOTES
APPROXIMATELY 200 STAPLES REQUIRED PER 100 SQ. YDS. OF MATERIAL ROLL. ANCHOR SLOTS, JUNCTION SLOTS & CHECK SLOTS TO BE BURIED 6" TO 12".



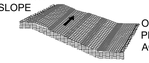
BM 3.36-2

BLANKET MATTING (VESCH TREATMENT-1)

No Scale

TYPICAL ORIENTATION OF VESCH TREATMENT - 1 SOIL (STABILIZATION BLANKET)

SHALLOW SLOPE

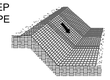


ON SHALLOW SLOPES, STRIPS NETTING PROTECTIVE COVERINGS MAY BE APPLIED ACROSS THE SLOPE.

WHERE THERE IS A BERM AT THE TOP OF THE SLOPE, BRING THE MATERIAL OVER THE BERM AND ANCHOR IT BEHIND THE BERM.

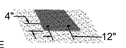


STEEP SLOPE

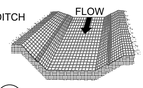


ON STEEP SLOPES, APPLY PROTECTIVE COVERING PARALLEL TO THE DIRECTION OF FLOW AND ANCHOR SECURELY.

BRING MATERIAL DOWN TO A LEVEL AREA BEFORE TERMINATING THE INSTALLATION. TURN THE END UNDER 4" AND STAPLE AT 12" INTERVALS.



DITCH



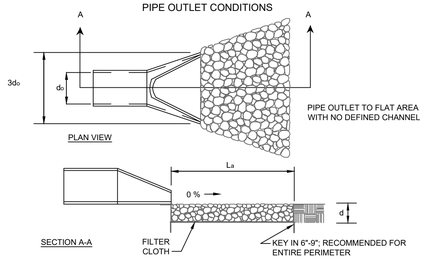
IN DITCHES, APPLY PROTECTIVE COVERING PARALLEL TO THE DIRECTION OF FLOW. USE CHECK SLOTS AS REQUIRED. AVOID JOINING MATERIAL IN THE CENTER OF THE DITCH IF AT ALL POSSIBLE.

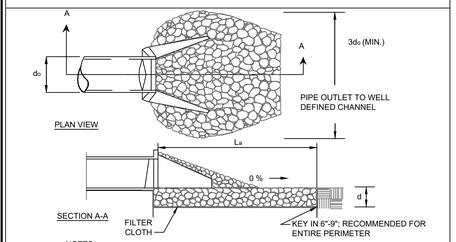
BM 3.36-1

BLANKET MATTING (VESCH TREATMENT-1)

No Scale

PIPE OUTLET CONDITIONS





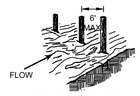
NOTES:
1. APRON LINING MAY BE RIPRAP, GROUTED RIPRAP, GABION BASKET, OR CONCRETE.
2. L_a IS THE LENGTH OF THE RIPRAP APRON AS CALCULATED USING PLATES 3.18-3 AND 3.18-4.
3. d = 1.5 TIMES THE MAXIMUM STONE DIAMETER, BUT NOT LESS THAN 6 INCHES.

OP 3.18

OUTLET PROTECTION

No Scale

1. SET THE STAKES.



2. EXCAVATE A 4"X 4" TRENCH UPSLOPE ALONG THE LINE OF STAKES.



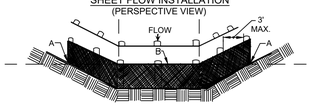
3. STAPLE FILTER MATERIAL TO STAKES AND EXTEND IT INTO THE TRENCH.



4. BACKFILL AND COMPACT THE EXCAVATED SOIL.



SHEET FLOW INSTALLATION
(PERSPECTIVE VIEW)



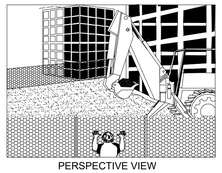
POINTS A SHOULD BE HIGHER THAN POINT B.

DRAINAGEWAY INSTALLATION
(FRONT ELEVATION)

SF 3.05-2

SILT FENCE (W/O WIRE SUPPORT)

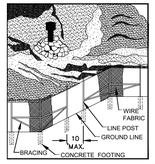
No Scale



PERSPECTIVE VIEW



PERSPECTIVE VIEW
PLASTIC FENCE

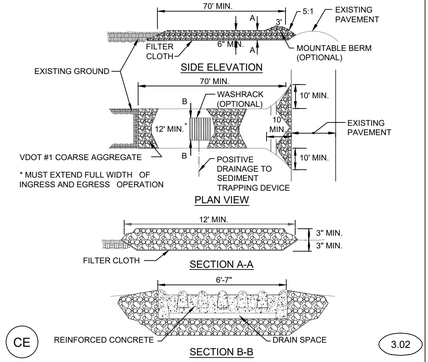


PERSPECTIVE VIEW
METAL FENCE

SAF 3.10

SAFETY FENCE

No Scale

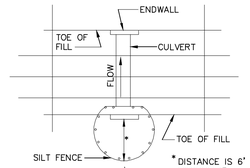


CE 3.02

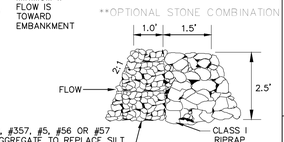
STONE CONSTRUCTION ENTRANCE

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SILT FENCE CULVERT INLET PROTECTION



**OPTIONAL STONE COMBINATION



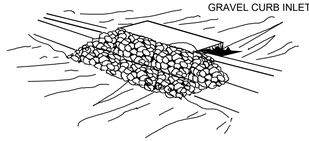
**VDOT #3, #357, #5, #56 OR #57 COARSE AGGREGATE TO REPLACE SILT FENCE IN " HORSESHOE " WHEN HIGH VELOCITY OF FLOW IS EXPECTED

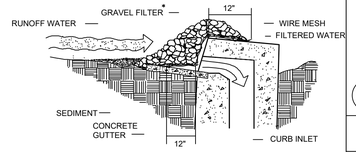
CIP 3.08-1

CULVERT INLET PROTECTION

No Scale

GRAVEL CURB INLET SEDIMENT FILTER





* GRAVEL SHALL BE VDOT #3, #357 OR 5 COARSE AGGREGATE.

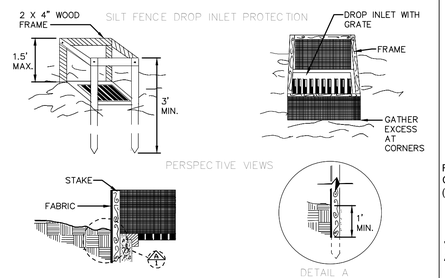
SPECIFIC APPLICATION: THIS METHOD OF INLET PROTECTION IS APPLICABLE AT CURB INLETS WHERE PONDING IN FRONT OF THE STRUCTURE IS NOT LIKELY TO CAUSE INCONVENIENCE OR DAMAGE TO ADJACENT STRUCTURES AND UNPROTECTED AREAS.

IP 3.07- 6

STORMWATER INLET PROTECTION

No Scale

SILT FENCE DROP INLET PROTECTION



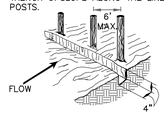
SPECIFIC APPLICATION
THIS METHOD OF INLET PROTECTION IS APPLICABLE WHERE THE INLET DRAINS A RELATIVELY FLAT AREA (SLOPE NO GREATER THAN 5%) WHERE THE INLET SHEET OR OVERLAND FLOWS (NOT EXCEEDING 1 C.F.S.) ARE TYPICAL. THE METHOD SHALL NOT APPLY TO INLETS RECEIVING CONCENTRATED FLOWS, SUCH AS IN STREET OR HIGHWAY MEDIANS.

IP 3.07-1

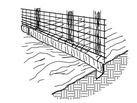
STORM DRAIN INLET PROTECTION

No Scale

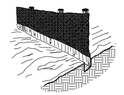
1. SET POSTS AND EXCAVATE A 4"X4" TRENCH UPSLOPE ALONG THE LINE OF POSTS.



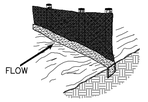
2. STAPLE WIRE FENCING TO THE POSTS.



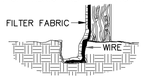
3. ATTACH THE FILTER FABRIC TO THE WIRE FENCE AND EXTEND IT INTO THE TRENCH.



4. BACKFILL AND COMPACT THE EXCAVATED SOIL.



EXTENSION OF FABRIC AND WIRE INTO THE TRENCH.

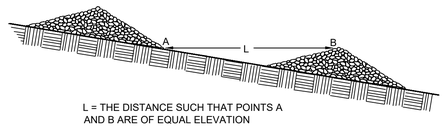


SSF 3.05-1

CONSTRUCTION OF A SILT FENCE (WITH WIRE SUPPORT)

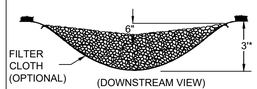
No Scale

SPACING BETWEEN CHECK DAMS

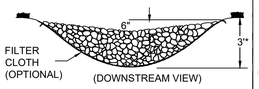


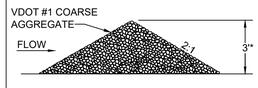
L = THE DISTANCE SUCH THAT POINTS A AND B ARE OF EQUAL ELEVATION

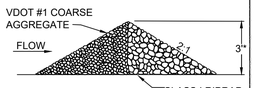
2 ACRES OR LESS OF DRAINAGE AREA:



2-10 ACRES OF DRAINAGE AREA:





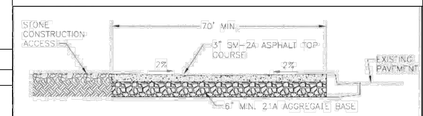


* OR 3/4 OF DITCH HEIGHT

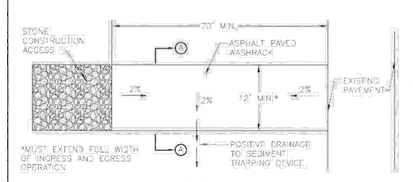
CD 3.20

ROCK CHECK DAM

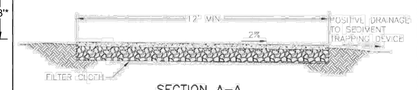
No Scale



PROFILE



PLAN



SECTION A–A

A minimum water tap of 1 inch must be installed with a minimum 1 inch ballcock shutoff valve supplying a wash hose with a diameter of 1.5 inches for adequate constant pressure. Wash water must be carried away from the entrance to an approved settling area to remove sediment. All sediment shall be prevented from entering storm drains, ditches or watercourses.

CE

PAVED WASH RACK

NO SCALE

PAVED CONSTRUCTION ENTRANCE

No Scale

COMMONWEALTH OF VIRGINIA
JONATHAN M. SHOWALTER
Lic. No. 0402057151
10/28/2020
PROFESSIONAL ENGINEER

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DATE 10/28/2020
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DESIGNED BY J. SHOWALTER
CHECKED BY J. HASH
SCALE N/A

TIMMONS GROUP

ALBEMARLE COUNTY SIDEWALKS
COUNTY OF ALBEMARLE, VIRGINIA
EROSION AND SEDIMENT CONTROL NOTES AND DETAILS

JOB NO. 33882.005
SHEET NO. 2E(7)

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UPC NO. 104159

ROADSIDE DEVELOPMENT

CORE MIX

MIX	LBS./ ACRES	DESCRIPTION
1	▲	⚹ 100% CERTIFIED FINE FESCUE
2	▲ 100	100% CERTIFIED TALL FESCUE
3	▲ 75 40	50 % CERTIFIED TALL FESCUE ⚹ 50 % CERTIFIED FINE FESCUE
4	▲	50% ORCHARDGRASS 50% CERTIFIED KENTUCKY BLUEGRASS
5	▲ 50	100% BERMUDAGRASS
TEMPORARY		
3/1 - 5/16 and 8/16 - 3/1	100 100	ANNUAL RYE 50% BARLEY, WINTER RYE OR WINTER WHEAT
5/16 - 8/16	60	50% FOXTAIL MILLET

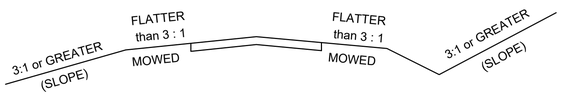
ADDITIVES

TYPE	LBS./ ACRES	DESCRIPTION
A	▲ 10	LITTLE BLUESTEM
B	▲ 15	100% BARLEY, WINTER RYE OR WINTER WHEAT
C	▲ 15	100% FOXTAIL MILLET
D	▲ 15	100% ANNUAL RYEGRASS
E	▲	100% CROWNVETCH (LEGUME)
F	▲	100% SERICEA LESPEDEZA (LEGUME)
G	▲	100% BIRDSFOOT TREFOIL (LEGUME)
H	▲ 10	WHITE CLOVER (TRIFOLIUM REPENS)
I	▲	
J	▲	
K	▲	

▲ ALL RATES TO BE SPECIFIED BY THE DISTRICT ROADSIDE MANAGER

⚹ FINE FESCUES INCLUDE CHEWINGS, CREEPING RED, HARD, SHEEP

SECTION OF SEED LOCATIONS



ROADSIDE DEVELOPMENT SUMMARY

PROJECT NUMBERS	⊗ TOPSOIL 2" CLASS A | B	REGULAR SEED	OVER SEEDING	LIME	FERT. 15-30-15	LEGUME SEED	LEGUME OVER SEEDING	TEMPORARY SEEDING	
	ACRES	LBS.	LBS.	TONS	TONS	LBS.	LBS.	LBS.	

⊗ DENOTES ITEM(S) TO BE PAID FOR ON BASIS OF PLAN QUANTITIES IN ACCORDANCE WITH CURRENT ROAD AND BRIDGE SPECIFICATIONS.

SEEDING SCHEDULE

	SLOPES SEED MIX WITH ADDITIVE	MOWED SEED MIX WITH ADDITIVE	SLOPES SEED MIX WITH ADDITIVE	MOWED SEED MIX WITH ADDITIVE	SLOPES SEED MIX WITH ADDITIVE	MOWED SEED MIX WITH ADDITIVE
	SPRING MONTH & DATE 4/1 - 6/1		SUMMER MONTH & DATE 6/1 - 9/15		FALL & WINTER MONTH & DATE 9/15 - 4/1	
PROJECT NUMBERS THIS PROJECT	3,D,H	3,D	3,A,C	3,A	3,B,H	3,B
⚹ SPECIFY KIND OF FINE FESCUE						

NOTES:

APPROXIMATELY 2.68 ACRES WILL BE DISTURBED ON THIS PROJECT AND WILL REQUIRE THE ESTABLISHMENT OF GRASSES AND/OR LEGUMES.

⚹ NOTES FOR FIELD USE ONLY

OVERSEEDING RATES SHALL BE 100 PERCENT OF THE SEED MIXTURE SUPPLIED WITHOUT FERTILIZER.

THE ENGINEER WILL REQUIRE THE CONTRACTOR TO PERFORM SUPPLEMENTAL SEEDING WHEN LESS THAN 75 PERCENT UNIFORM STAND OF THE PERMANENT GRASS SPECIFIED IN THE MIXTURES IS OBTAINED. (ANNUAL SPECIES SUCH AS, RYE AND MILLET ARE TEMPORARY VARIETIES AND REQUIRE SUPPLEMENTAL SEEDING.)

NOTES APPLY TO SCHEDULE

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

LEGUME SEED SHALL BE INOCULATED WITH THE APPROPRIATE STRAIN AND RATE OF BACTERIA. FOR HYDROSEEDING, USE FIVE TIMES THE DRY SEEDING RATE OF INOCULATE.

A TEMPORARY MIX OR EROSION CONTROL MULCH, AS DIRECTED BY THE ENGINEER, IS TO BE USED ONLY ON AREAS THAT ARE TO BE REGRADED OR LATER DISTURBED, IF LEFT DORMANT FOR MORE THAN 15 DAYS.

EROSION CONTROL MULCH, AS DIRECTED BY THE ENGINEER, IS TO BE USED ON AREAS THAT ARE TO BE LEFT DORMANT FOR MORE THAN 15 DAYS BETWEEN DECEMBER 1 AND FEBRUARY 28.

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

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

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

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

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

TYPE I MULCH SHALL BE APPLIED TO PROVIDE A MINIMUM 90 PERCENT COVERAGE.

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

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

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

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

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

MIX REQUIREMENTS THIS PROJECT

RECOMMENDATIONS FOR THE APPLICATION OF SEED MIXTURES (CORE MIX AND ADDITIVES), FERTILIZER, LIME, ETC. ARE TO BE OBTAINED FROM THE VDOT DISTRICT ROADSIDE MANAGER.

COMMONWEALTH OF VIRGINIA
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PROFESSIONAL ENGINEER

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J. SHOWALTER
CHECKED BY
J. HASH
SCALE
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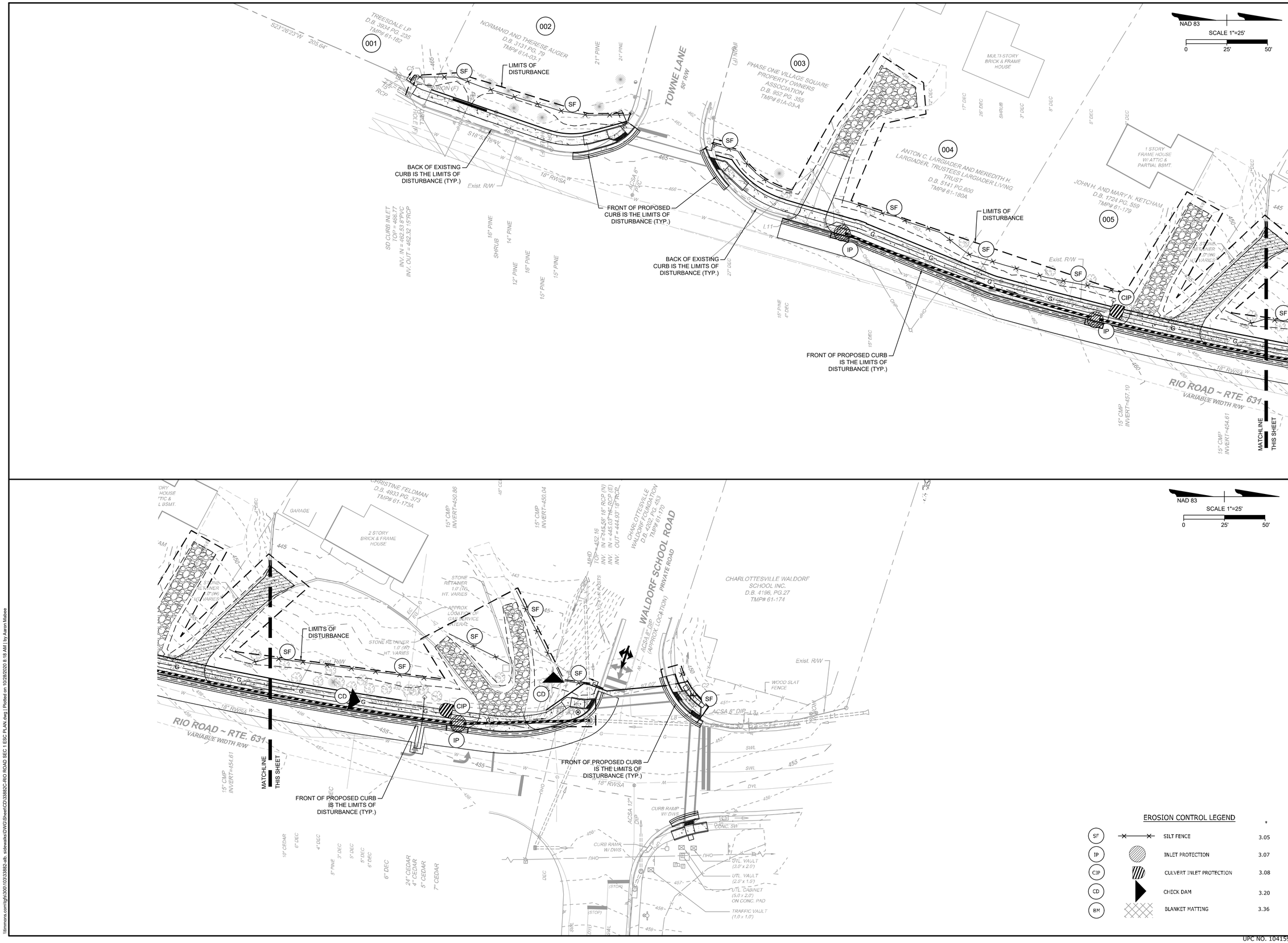
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ALBEMARLE COUNTY SIDEWALKS
COUNTY OF ALBEMARLE, VIRGINIA
ROADSIDE DEVELOPMENT

JOB NO.
33882.005
SHEET NO.
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DESIGNED BY
J. SHOWALTER
CHECKED BY
J. HASH
SCALE
1"=25'
JOB NO.
33882.005
SHEET NO.
2F(1)

TIMMONS GROUP

ALBEMARLE COUNTY SIDEWALKS

COUNTY OF ALBEMARLE, VIRGINIA

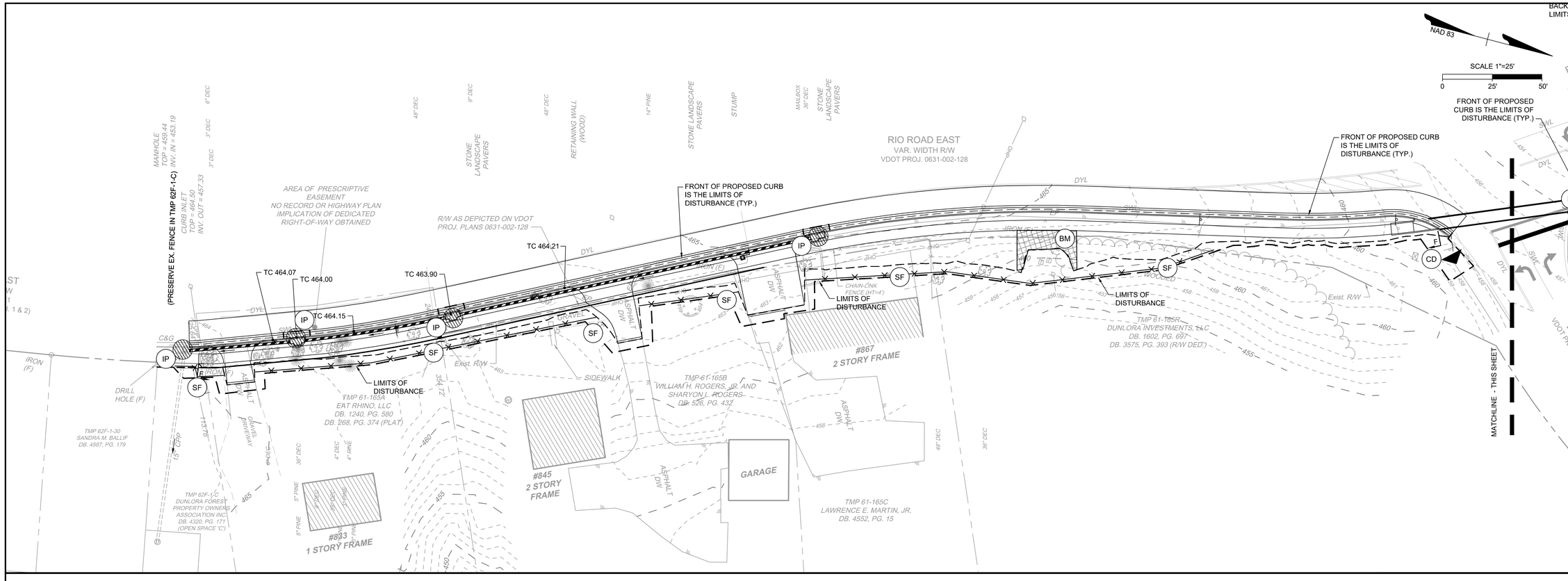
RIO ROAD SECTION 1 ESC PLAN

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DESIGNED BY
J. SHOWALTER
CHECKED BY
J. HASH
SCALE
1"=25'

TIMMONS GROUP

ALBEMARLE COUNTY SIDEWALKS

COUNTY OF ALBEMARLE, VIRGINIA

RIO ROAD SECTION 2 ESC PLAN

JOB NO.
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SHEET NO.
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EROSION CONTROL LEGEND

SF	SILT FENCE	3.05
IP	INLET PROTECTION	3.07
CIP	CULVERT INLET PROTECTION	3.08
CD	CHECK DAM	3.20
BM	BLANKET MATTING	3.36

NAD 83

SCALE 1"=25'
0 25' 50'

US RTE. 250 ROCKFISH GAP TURNPIKE
VAR. WIDTH R/W
VDOT PROJ. 0240-730A2

CORY FARM ROAD
120' R/W
DB. 1589, PG. 177
DB. 1589, PG. 192 (SUBD PLAT)

RADFORD LANE

CLOVER LAWN LANE

15" RCP W/ HEADWALL
INV. (OUT)=622.34'
CONC. PROTECTION &
ROCK ARMOR AT OUTLET

12" RCP W/ FES
INV.=620.41
*NOTE 12" STR
OBSERVED, TO
18" RCP AT SWM

REMOVE AND REPLACE EXISTING RIPRAP AS NEEDED FOR SILT FENCE, REPLACE RIP RAP TO MATCH EXISTING CONDITIONS

30" RCP
INV.=610.8'

30" RCP
INV.=608.78'
OUTLET IN DISREPAIR;
DETACHED SECTIONS &
ERODED SLOPES

LIMITS OF DISTURBANCE

FRONT OF PROPOSED CURB IS THE LIMITS OF DISTURBANCE (TYP.)

PROP. V-NOTCH DITCH

TMP 56F-1-1
SCOTT & SUSAN KINNAN
DB. 2697, PG. 672

TMP 56F-1-2
JOHN D. & ISABELLE REEVES
DB. 2516, PG. 351

TMP 56F-1-3
JEFFREY M. & SANDRA A. THOMPSON
DB. 3411, PG. 74

TMP 56F-1-4
KISHOR N. & PARUL KISHOR CHAVDA
DB. 2622, PG. 525

TMP 56F-1-4
KYLE JAMES & BROOKE CARRICO
QUINLIVAN
DB. 3411, PG. 74

TMP 56F-1-A
(COMMON AREA)
CORY FARM HOMEOWNERS' ASSOCIATION INC.
DB. 2667, PG. 458
DB. 1589, PG. 192 (PLAT)

TMP 56-107B1
DAVID F. SWORTZEL ET AL
(TRUSTEES FOR KING SOLOMON'S MASONIC LODGE NO. 194)
DB. 443, PG. 299

TMP 56F1-A1
CLOVER LAWN VILLAGE OWNERS' ASSOCIATION, INC.
DB. 3377, PG. 433
DB. 2189, PG. 433 (PLAT)

TMP 56-110
PRESTON O. STALLINGS
DB. 992, PG. 393
DB. 1582, PG, 87 (SUBD PLAT)

TMP 56-110A
PRESTON O. STALLINGS
DB. 568, PG. 56
DB. 1582, PG. 87 (SUBD PLAT)

TMP 56F1-1

TMP 56F1-2

(6) EXISTING TREES TO REMAIN. CONTRACTOR SHALL PROTECT AND MINIMIZE ALL IMPACT TO THESE TREES DURING CONSTRUCTION.

TRENCHING FOR SILT FENCE TO BE DONE WITH CARE TO MINIMIZE DAMAGE TO TREE ROOTS.

DO NOT DISTURB PAST RW LINE

PARCELS 017 AND 018: CONTRACTOR SHALL KEEP ALL CONSTRUCTION AND LAND DISTURBING ACTIVITIES WITHIN THE EXISTING RIGHT-OF-WAY

PARCELS 017 AND 018: CONTRACTOR SHALL KEEP ALL CONSTRUCTION AND LAND DISTURBING ACTIVITIES WITHIN THE EXISTING RIGHT-OF-WAY. PLACE ORANGE SAFETY FENCE ALONG EDGE OF RIGHT-OF-WAY TO PREVENT ANY CROSSING OF PROPERTY LINE.

EX. ACCESS EASEMENT FOR TMP 56-110 DB. 1582, PG. 84

MATCHLINE THIS SHEET

(2-WAY LEFT TURN LANE)

SIGN: 2-WAY LEFT TURN LANE 1260

SIGN: ROAD NAMES

METAL GUARDRAIL

WOOD RAIL FENCE HT=4.5'

WOOD FENCE HT=5'

TELECOM VAULT

ELEC. VAULT (1'x 2')

WATER METER BOX 4" DOM. 1" IRR. EX. ACSA WATERLINE

LUMOSE APPROX. LOCATION

VDH MON (F)

(3) SMALL CONIFERS

31 PARKING SPACES

UPC NO. 104159

IFB 2021-12012-35

COMMONWEALTH OF VIRGINIA
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J. SHOWALTER
CHECKED BY
J. HASH
SCALE
1"=25'

TIMMONS GROUP

ALBEMARLE COUNTY SIDEWALKS

COUNTY OF ALBEMARLE, VIRGINIA

ROCKFISH GAP ESC PLAN

JOB NO.
33882.005
SHEET NO.
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NAD 83

SCALE 1"=25'

0 25' 50'

ARDEN DRIVE
DB. 3251, PG. 607
54' R/W

Exist. R/W

BRICK WALL (1.1' W)

BLOCK WALL (1.0' W)

SD CURB INLET W/ MHD
TOP=628.40'
INV. CL=619.98'
24" RCP IN
36" RCP OUT

ACSA 12" DIP WATER MAIN

* SIDEWALKS CONTINUE

18" RCP
INV. OUT=622.33'

STOP SIGN

CURB RAMP

EX. CROSS-WALK

SD CURB INLET W/ MHD
TOP=627.76'
INV. CL=621.19'
(15" RCP OUT)

SD INLET W/ GRATE
TOP=626.59'
INV. CL=623.04' 18" RCP

TMP 90-33
JEANETTE D. SMITH
DB. 3171 PG. 579

2 STORY FRAME & VINYL HOUSE (ON SLAB)

BLOCK RETAINER (0.67' W)

BRICK (1' W)

4" SW

SD INLET W/ GRATE
TOP=627.87'
INV. CL=623.53' 18" RCP

12" CMP
INV. OUT=634.43'

12" CMP INV. OUT=635.13

ASPHALT DRIVE

ROCK ARMOR

PP UE29
W/ GRND WIRE

PP UF44 F2323
W/ TRANSFORMER
& GROUND LEADS

LIMITS OF DISTURBANCE

LOCATION OF METER

TMP 90-33C
JEANETTE D. SMITH
DB. 3171 PG. 579

TMP 90-33B
JEANETTE D. SMITH
DB. 3171 PG. 579

BUSH (TYP.)

FAITH TEMPLE CHURCH
DB. 2756 PG. 748
TMP 90-33A

MATCHLINE THIS SHEET

STATE RTE. 742
AVON STREET EXTENDED
60' & VAR. WIDTH R/W
VDOT PROJ. 0742-002-115

12" CMP
INV. OUT=637.76'

12" CMP
INV. OUT=638.64'

IP

CIP

CD

SF

CEMETERY

TMP 90-33A
FAITH TEMPLE CHURCH
DB. 2180 PG. 266

1 STORY BUILDING (FAITH TEMPLE CHURCH) W/ BASEMENT

WOOD FENCE (HT=5')

WOOD BOLLARD 0.33' Ø, HT=2'

TMP 90-34
FAITH TEMPLE CHURCH
DB. 2180 PG. 266
GRAVEL LOT

CHAIN-LINK FENCE (HT=4')

SIGN: FAITH TEMPLE CONC. SW

GATE

GATE-STOP

Exist. R/W

(EX. R/W)

MHD
TOP = 641
INV. CL =
FULL OF
SIZES N

STONE COLUMN

SIGN
MILL CREEK SOUTH

STONE COLUMN

12" WATER MAIN

STONEY CREEK DRIVE

NO OUTLET SIGN

(2) 10" PINES

SIGN
AVON ST.
STONECREEK DR

(4) 10" PINES

5' CONC. SW (ASPH.)

APPROX. LOCATION OF WATER METER AND LATERAL

PP
Lat28 / G2.1
F2323 / #46185

EROSION CONTROL LEGEND

			*
SF		SILT FENCE	3.05
IP		INLET PROTECTION	3.07
CIP		CULVERT INLET PROTECTION	3.08
CD		CHECK DAM	3.20
BM		BLANKET MATTING	3.36

UPC NO. 104159

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JONATHAN M. SHOWALTER
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DESIGNED BY
J. SHOWALTER
CHECKED BY
J. HASH
SCALE
1"=25'

TIMMONS GROUP

ALBEMARLE COUNTY SIDEWALKS

COUNTY OF ALBEMARLE, VIRGINIA

AVON EXTENDED ESC PLAN PHASE 1

JOB NO.
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SHEET NO.
2F(4)

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EROSION CONTROL LEGEND

			*
SF	⟶⟵	SILT FENCE	3.05
IP		INLET PROTECTION	3.07
CIP		CULVERT INLET PROTECTION	3.08
SAF	SAF	SAFETY FENCE	3.10
CD		CHECK DAM	3.20
BM		BLANKET MATTING	3.36

STATE RTE. 742 AVON STREET EXTENDED
60' & VAR. WIDTH R/W
VDOT PROJ. 0742-002-115

MATCHLINE THIS SHEET

LIMITS OF DISTURBANCE

ORANGE PLASTIC FENCE

APPROX. LOCATION OF EX. DRAIN FIELD TO BE PROTECTED

TMP 91-13 COUNTY OF ALBEMARLE SCHOOL BOARD DB. 1096 PG. 737

TMP 91-1D DOMINION CRANE & RIGGING, INC. DB. 1237 PG. 594

TMP 91-1 ALBEMARLE COUNTY SERVICE AUTHORITY DB. 1089 PG. 670

TMP 91-1B ALBEMARLE COUNTY SERVICE AUTHORITY DB. 1089 PG. 670

TMP 91-1A ALBEMARLE COUNTY SERVICE AUTHORITY DB. 1089 PG. 670

TMP 91-1F DONALD W. SHIFFLETT DB. 1074 PG. 400

TMP 91-1E ALBEMARLE COUNTY SERVICE AUTHORITY DB. 1089 PG. 670

SCALE 1"=25'

STATE RTE. 742 AVON STREET EXTENDED
60' & VAR. WIDTH R/W
VDOT PROJ. 0742-002-115

MATCHLINE SHEET 2F(6)

MATCHLINE SHEET THIS SHEET

LIMITS OF DISTURBANCE

TMP 91-1A ALBEMARLE COUNTY SERVICE AUTHORITY DB. 1089 PG. 670

TMP 91-2D J & J DEVELOPMENT, LLC DB. 1901 PG. 1

TMP 77-47A MTPA INVESTMENTS, LLC DB. 4550 PG. 288

MILL CREEK DRIVE 120' R/W DB. 1895, PG. 168 (PLAT)

SCALE 1"=25'

UPC NO. 104159

IFB 2021-12012-35

COMMONWEALTH OF VIRGINIA
JONATHAN M. SHOWALTER
Lic. No. 0402057151
10/28/2020
PROFESSIONAL ENGINEER

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DATE
10/28/2020
DRAWN BY
J. SHOWALTER
DESIGNED BY
J. SHOWALTER
CHECKED BY
J. HASH
SCALE
1"=25'

TIMMONS GROUP

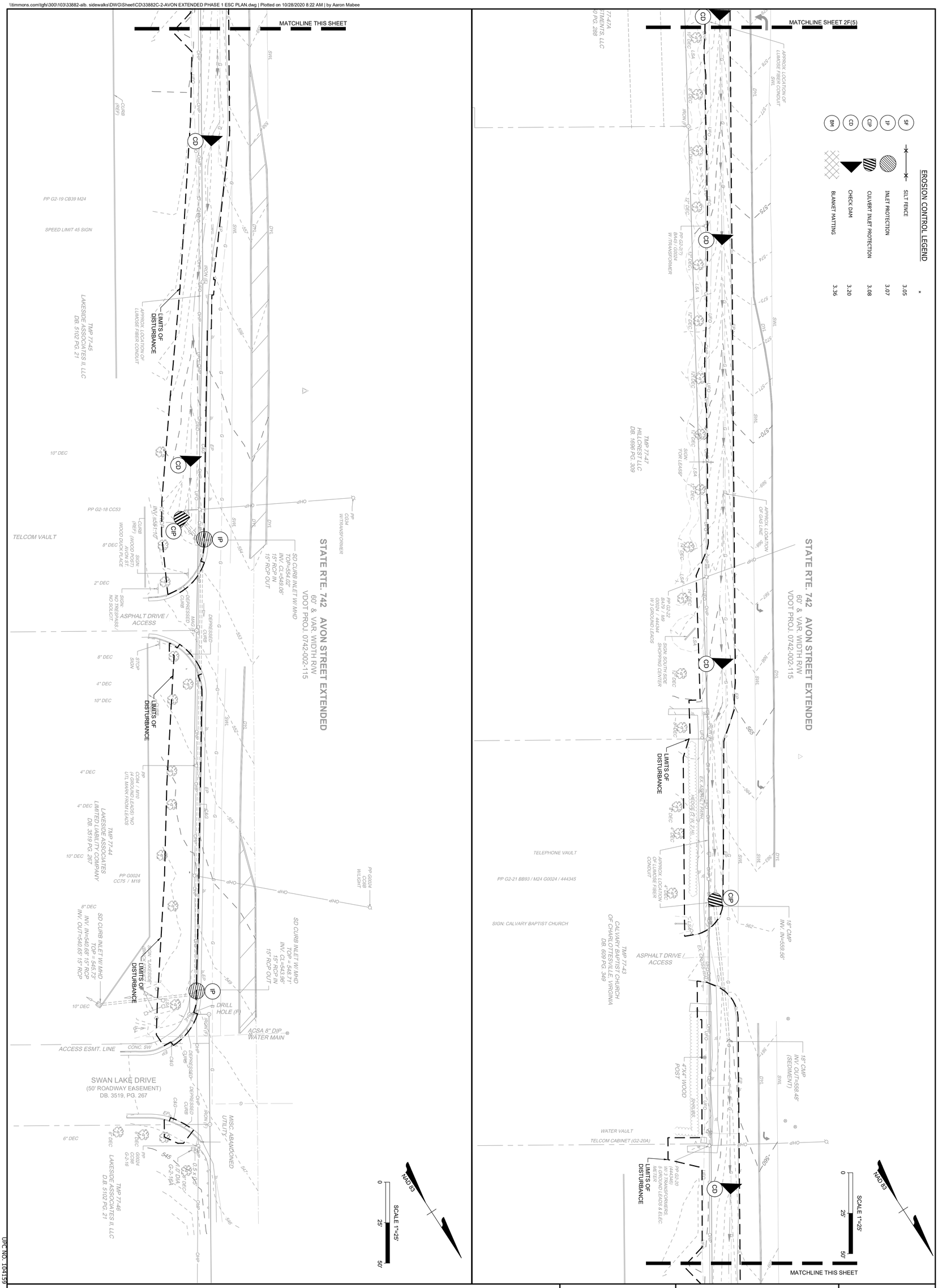
ALBEMARLE COUNTY SIDEWALKS
COUNTY OF ALBEMARLE, VIRGINIA
AVON EXTENDED ESC PLAN PHASE 1

JOB NO.
33882.005
SHEET NO.
2F(5)

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COMMONWEALTH OF VIRGINIA
STEVEN M. BRICKETT
Lic. No. 040205151
PROFESSIONAL ENGINEER
10/28/2020

DATE	

ALBEMARLE COUNTY SIDEWALKS

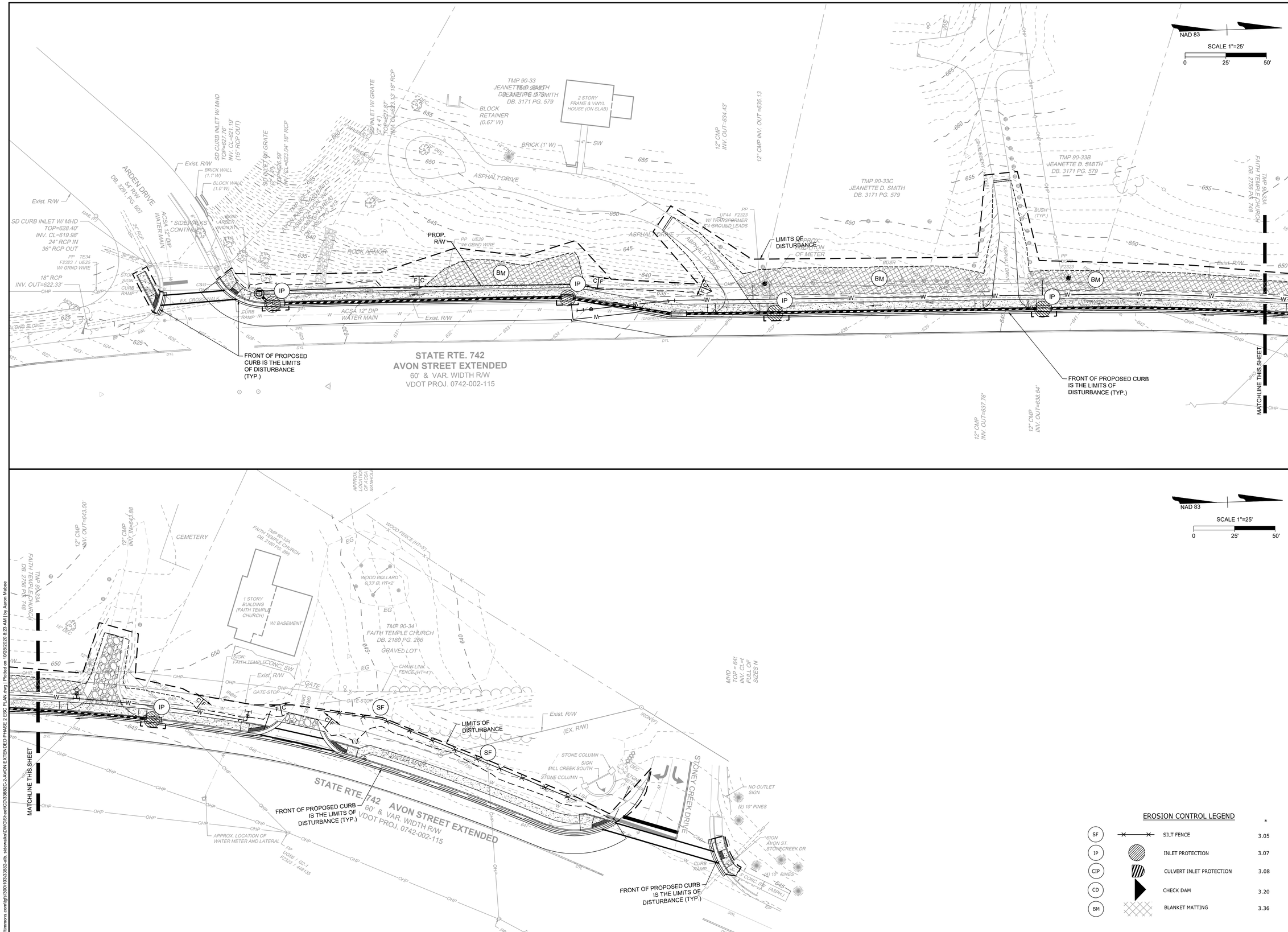
COUNTY OF ALBEMARLE, VIRGINIA

AVON EXTENDED ESC PLAN PHASE 1

JOB NO.	33882.005
SHEET NO.	2F(6)
SCALE	1"=25'
CHECKED BY	J. HASH
DESIGNED BY	J. SHOWALTER
DRAWN BY	J. SHOWALTER
DATE	10/28/2020

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EROSION CONTROL LEGEND

			*
SF		SILT FENCE	3.05
IP		INLET PROTECTION	3.07
CIP		CULVERT INLET PROTECTION	3.08
CD		CHECK DAM	3.20
BM		BLANKET MATTING	3.36

COMMONWEALTH OF VIRGINIA
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DATE

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DESIGNED BY: J. SHOWALTER
CHECKED BY: J. HASH
SCALE: 1"=25'

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ALBEMARLE COUNTY SIDEWALKS
COUNTY OF ALBEMARLE, VIRGINIA
AVON EXTENDED ESC PLAN PHASE 2

JOB NO. 33882.005
SHEET NO. 2F(7)

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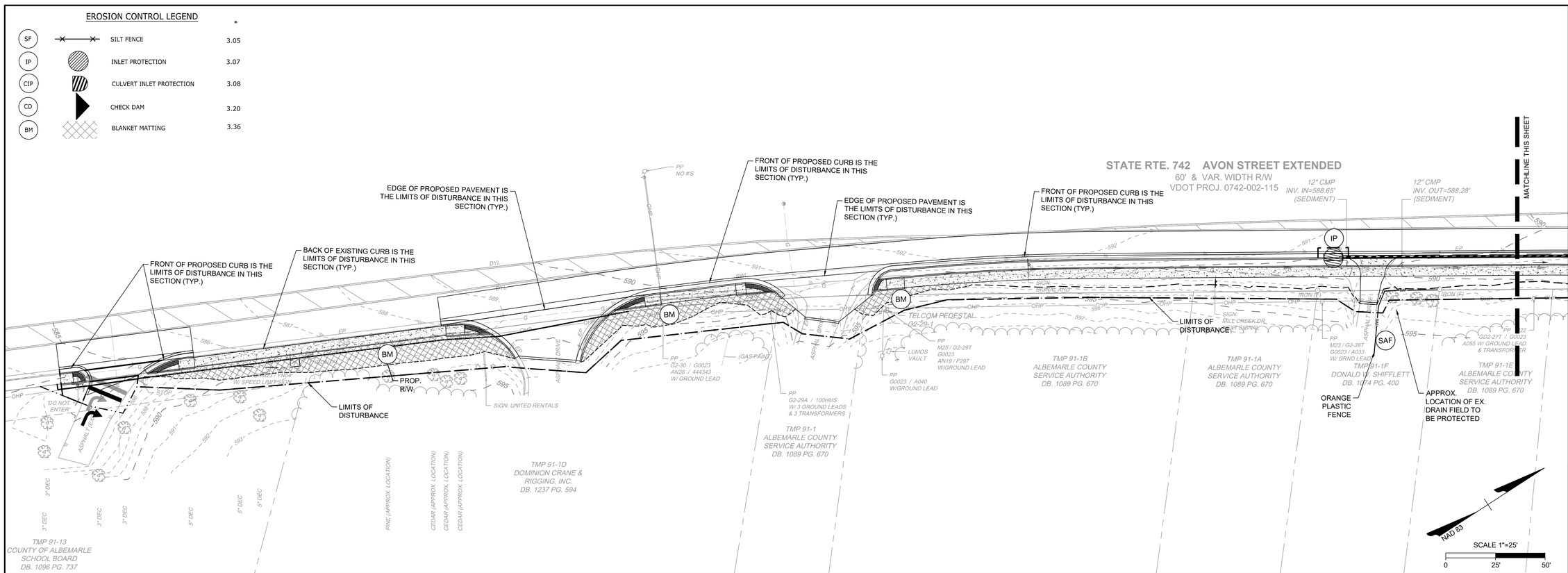
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IFB 2021-12012-35

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EROSION CONTROL LEGEND

		*
SF	SILT FENCE	3.05
IP	INLET PROTECTION	3.07
CIP	CULVERT INLET PROTECTION	3.08
CD	CHECK DAM	3.20
BM	BLANKET MATTING	3.36



COMMONWEALTH OF VIRGINIA
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CHECKED BY: J. HASH
SCALE: 1"=25'

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ALBEMARLE COUNTY SIDEWALKS

COUNTY OF ALBEMARLE, VIRGINIA

AVON EXTENDED ESC PLAN PHASE 2

JOB NO. 33882.005

SHEET NO. 2F(8)

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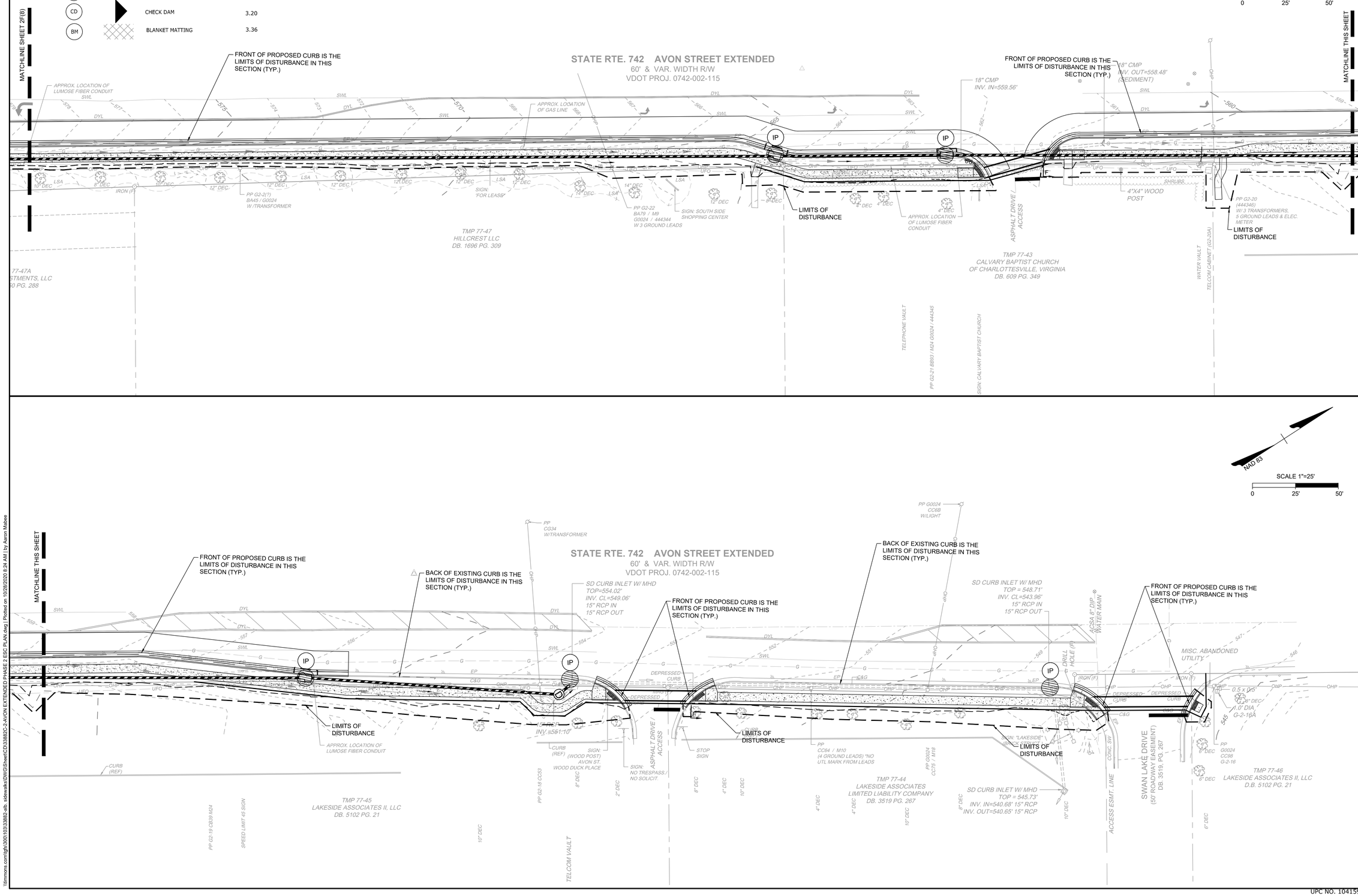
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EROSION CONTROL LEGEND

SF	SILT FENCE	3.05
IP	INLET PROTECTION	3.07
CIP	CULVERT INLET PROTECTION	3.08
SAF	SAFETY FENCE	3.10
CD	CHECK DAM	3.20
BM	BLANKET MATTING	3.36



COMMONWEALTH OF VIRGINIA
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DATE	
DATE	10/28/2020
DRAWN BY	J. SHOWALTER
DESIGNED BY	J. SHOWALTER
CHECKED BY	J. HASH
SCALE	1"=25'

ALBEMARLE COUNTY SIDEWALKS

COUNTY OF ALBEMARLE, VIRGINIA

AVON EXTENDED ESC PLAN PHASE 2

JOB NO.	33882.005
SHEET NO.	2F(9)

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UPC NO. 104159

TRANSPORTATION MANAGEMENT PLAN

GENERAL:

1. THIS PROJECT IS CLASSIFIED AS TYPE A.

2. THE PROJECT LENGTH ALONG THESE PROJECT SITES ARE AS FOLLOWS:
   - 2.1. RIO ROAD (ROUTE 631) SECTION 1 IS APPROXIMATELY 750 FEET IN LENGTH. THE WIDTH OF THE WORK ZONE IS LESS THAN 80 FEET.
   - 2.2. RIO ROAD (ROUTE 631) SECTION 2 IS APPROXIMATELY 900 FEET IN LENGTH. THE WIDTH OF THE WORK ZONE IS LESS THAN 80 FEET.
   - 2.3. ROCKFISH GAP TURNPIKE (ROUTE 250) IS APPROXIMATELY 1350 FEET IN LENGTH.
   - 2.4. AVON STREET EXTENDED (ROUTE 742) SOUTH SECTION IS APPROXIMATELY 1100 FEET IN LENGTH. THE WIDTH OF THE WORK ZONE IS LESS THAN 80 FEET.
   - 2.5. AVON STREET EXTENDED (ROUTE 742) NORTH SECTION IS APPROXIMATELY 3000 FEET IN LENGTH. THE WIDTH OF THE WORK ZONE IS LESS THAN 80 FEET.

3. THE PURPOSE OF THIS PROJECT IS TO CONSTRUCT A NEW SIDEWALK ALONG THE INDIVIDUAL PROJECT CORRIDORS AND TO IMPROVE DRAINAGE WITH THE INSTALLATION OF CURB AND GUTTER AND STORMWATER STRUCTURES ALONG THE PROJECT CORRIDORS.

4. TRAFFIC ALONG THESE ROADS CONSISTS OF COMMUTERS AND LOCAL RESIDENTS.

5. THE EXISTING SPEED LIMITS FOR THE PROJECT CORRIDORS WILL BE MAINTAINED DURING ALL PHASES OF CONSTRUCTION AND ARE AS FOLLOWS:
   - 5.1. RIO ROAD (ROUTE 631) IS 35 MPH.
   - 5.2. ROCKFISH GAP TURNPIKE (ROUTE 250) IS 55 MPH.
   - 5.3. AVON STREET EXTENDED (ROUTE 742) IS 45 MPH.

TEMPORARY TRAFFIC CONTROL (TTC) / MAINTENANCE OF TRAFFIC (MOT):

1. LANE CLOSURES, SHOULDER CLOSURES, LANE SHIFTS, AND FLAGGING OPERATIONS ARE ANTICIPATED FOR THIS PROJECT AND WILL BE IN ACCORDANCE WITH THE VIRGINIA WORK AREA PROTECTION MANUAL, 2011 EDITION, REVISION 2. THE FOLLOWING TEMPORARY TRAFFIC MEASURES SHALL BE USED:
   - 1.1. TYPICAL TRAFFIC CONTROL STATIONARY OPERATION ON SHOULDER (FIGURE TTC-4.2 - STATIONARY OPERATION ON A SHOULDER).
   - 1.2. TYPICAL TRAFFIC CONTROL SHOULDER OPERATION WITH MINOR ENCROACHMENT (FIGURE TTC-5.2 - SHOULDER OPERATION WITH MINOR ENCROACHMENT)
   - 1.3. TYPICAL TRAFFIC CONTROL OUTSIDE LANE CLOSURE ON A FOUR-LANE ROADWAY (FIGURE TTC-16.2 - OUTSIDE LANE CLOSURE ON A FOUR-LANE ROADWAY)
   - 1.4. TYPICAL TRAFFIC CONTROL RIGHT LANE CLOSURE OPERATION ON A THREE-LANE ROADWAY (FIGURE 22.2 - RIGHT LANE CLOSURE OPERATION ON A THREE-LANE ROADWAY).
   - 1.5. TYPICAL TRAFFIC CONTROL LANE CLOSURE ON A TWO-LANE ROADWAY USING FLAGGERS (FIGURE TTC-23.2 - LANE CLOSURE ON A TWO-LANE ROADWAY USING FLAGGERS).
   - 1.6. TYPICAL TRAFFIC CONTROL TURN LANE CLOSURE OPERATION (FIGURE TTC-29.1 - TURN LANE CONTROL OPERATION)
   - 1.7. TYPICAL TRAFFIC CONTROL FOR PAVING OPERATIONS (FIGURE TTC-57.2 - END OF DAY SIGNING FOR PARTIAL PAVING OPERATIONS ON A MULIT-LANE ROADWAY).
   - 1.8. TYPICAL TRAFFIC CONTROL FOR PAVEMENT STRIPING OPERATION (FIGURE TTC-15.2 - SHORT DURATION OPERATION ON MULTI-LANE ROADWAY).

2. NEGATIVE IMPACTS TO THE TRAVELING PUBLIC SHALL BE MINIMIZED IN EVERY WAY POSSIBLE. AS SUCH, DURING PEAK TIMES AND HOLIDAYS, ONE LANE OF TRAFFIC SHALL BE MAINTAINED IN BOTH DIRECTIONS. SEE THE "GENERAL NOTES" PORTION OF THIS PLAN SHEET FOR MORE INFORMATION.

3. ACCESS TO ADJACENT PROPERTIES SHALL BE MAINTAINED AT ALL TIMES.

4. REFERENCE THE "SEQUENCE OF CONSTRUCTION" NOTES FOR DETAILS PERTAINING TO THE SPECIFIC TTC / MOT POLICY TO BE IMPLEMENTED DURING CONSTRUCTION.

PUBLIC COMMUNICATION PLAN:

1. IF ANY MAJOR TRAFFIC CHANGES ARE TO TAKE PLACE (LANE CLOSURES, ETC.), THE PROJECT ADMINISTRATOR SHALL ENSURE THAT THE LOCAL NEWSPAPERS AND RADIO STATIONS ARE INFORMED 72 HOURS IN ADVANCE OF THE CHANGE.

2. PORTABLE CHANGEABLE MESSAGE BOARDS (PCMBS) SHALL BE USED TO NOTIFY THE TRAVELING PUBLIC OF ANY SUCH MAJOR TRAFFIC CHANGES 72 HOURS IN ADVANCE OF THE CHANGE.

TRANSPORTATION OPERATION PLAN:

1. THE PROJECT PERSONNEL SHALL NOTIFY THE "REGIONAL TRAFFIC OPERATIONS CENTER" (RTOC) WHEN A LANE CLOSURE IS IMPLEMENTED, AND AGAIN WHEN IT IS REMOVED. THE RTOC WILL IN TURN PLACE THE INFORMATION INTO THE "511 VIRGINIA" TRAFFIC ALERT SYSTEM (A SERVICE OF THE VIRGINIA DEPARTMENT OF TRANSPORTATION TRAFFIC SYSTEM)

2. CONTRACTOR TO INPUT LANE CLOSURES INTO THE VDOT LANE CLOSURE ADVISORY MANAGEMENT SYSTEM (LCAMS) ON A WEEKLY BASIS.

3. THE FOLLOWING IS A LIST OF LOCAL EMERGENCY NUMBERS:
   FIRE: 434-296-5833
   COUNTY POLICE: 434-748-1251
   STATE POLICE: 434-352-7128
   PROJECT PERSONNEL:
   - COUNTY CONTACT: JACK KELSEY, ALBEMARLE COUNTY: 434-872-4501
   - ENGINEER CONTACT: JOHN HASH, TIMMONS GROUP: 434-327-1691
   - INSPECTOR: TBD

   CULPEPER REGION OPERATION WORK ZONE COORDINATOR: TBD
   DISTRICT PUBLIC AFFAIRS MANAGER: 540-727-3201
   CHARLOTTESVILLE RESIDENCY OFFICE: 434-293-0011

4. ANY TRAFFIC INCIDENT THAT OCCURS DURING THE LIFE OF THIS PROJECT WILL BE DISCUSSED BY THE CONTRACTOR, VDOT PERSONNEL, AND THE COUNTY PROJECT PERSONNEL TO DETERMINE WHETHER ANY CHANGES NEED TO BE MADE TO THE TRAFFIC CONTROL ON THE PROJECT.

TMP GENERAL NOTES:

1. ANY REQUIRED LANE CLOSURES MUST BE APPROVED TWO WEEKS IN ADVANCE BY THE VDOT CHARLOTTESVILLE RESIDENCY OFFICE. (434-293-0011)

2. LANE CLOSURES AND STOPPING OF TRAFFIC SHALL ONLY BE ALLOWED ON RIO ROAD, ROCKFISH GAP TURNPIKE, AVON STREET EXTENDED OR ANY OTHER CONNECTING ROAD BETWEEN THE HOURS OF 9:00 AM TO 4:00 PM, MONDAY THROUGH FRIDAY, UNLESS OTHERWISE DIRECTED BY VDOT & THE ENGINEER. FOR MORE INFORMATION, SEE THE SEQUENCE OF CONSTRUCTION ON ACCOMPANYING SHEETS.

3. TRAFFIC SHALL NOT BE STOPPED ON RIO ROAD, ROCKFISH GAP TURNPIKE, AVON STREET EXTENDED OR ANY CONNECTOR ROAD FOR LONGER THAN FIVE MINUTES AT ANY TIME UNLESS OTHERWISE DIRECTED BY VDOT.

4. ALL AREAS EXCAVATED DEEPER THAN 2' BELOW EXISTING PAVEMENT SURFACE AND WITHIN THE CLEAR ZONE, AT THE CONCLUSION OF EACH WORKDAY, SHALL BE BACK FILLED TO FORM AN APPROXIMATE 6:1 WEDGE AGAINST THE PAVEMENT SURFACE FOR THE SAFETY AND PROTECTION OF VEHICULAR TRAFFIC. ALL COST PLACING, MAINTAINING AND REMOVING THE 6:1 WEDGE SHALL BE INCLUDED IN THE PRICE BID FOR OTHER ITEMS IN THE CONTRACT AND NO ADDITIONAL COMPENSATION WILL BE ALLOWED.

5. FOR PARTIAL ROAD CLOSURES OR LANE CLOSURES, THE CONTRACTOR SHALL ADHERE TO THE FOLLOWING TIME OF YEAR RESTRICTIONS:
   - A. JANUARY 1: FROM NOON ON THE PRECEDING DAY UNTIL NOON ON THE FOLLOWING DAY, EXCEPT AS INDICATED BELOW FOR HOLIDAYS OCCURING ON A FRIDAY/SATURDAY OR SUNDAY/MONDAY.
   - B. EASTER: AS INDICATED BELOW FOR HOLIDAYS OCCUR RING ON A SUNDAY.
   - C. MEMORIAL DAY: AS INDICATED BELOW FOR HOLIDAYS OCCURRING ON A MONDAY .
   - D. JULY 4: FROM NOON ON THE PRECEDING DAY UNTIL NOON ON THE FOLLOWING DAY, EXCEPT AS INDICATED BELOW FOR HOLIDAYS OCCURRING ON A FRIDAY/SATURDAY OR SUNDAY/MONDAY.
   - E. LABOR DAY: AS INDICATED BELOW FOR HOLIDAYS OCCURRING ON A MONDAY .
   - F. THANKSGIVING DAY: FROM NOON ON THE WEDNESDAY PRECEDING THANKSGIVING DAY UNTIL NOON ON THE MONDAY FOLLOWING THANKSGIVING DAY .
   - G. CHRISTMAS DAY: FROM NOON ON THE PRECEDING DAY UNTIL NOON ON THE FOLLOWING DAY, EXCEPT AS INDICATED BELOW FOR THE HOLIDAYS OCCURRING ON A FRIDAY/SATURDAY OR SUNDAY/MONDAY.
   - H. IF THE HOLIDAY OCCURS ON A FRIDAY OR SATURDAY: FROM NOON ON THE PRECEDING THURSDAY TO NOON ON THE FOLLOWING MONDAY .
   - I. IF THE HOLIDAY OCCURS ON A SUNDAY OR MONDAY: FROM NOON ON THE PRECEDING FRIDAY TO NOON ON THE FOLLOWING TUESDAY.

6. ANY CONTRACT ITEM(S) NOT SPECIFICALLY NOTED IN THE MAINTENANCE OF TRAFFIC MAY BE SCHEDULED FOR CONSTRUCTION AT THE CONTRACTOR'S OPTION, AS APPROVED BY THE ENGINEER AND VDOT.

7. ACCESS TO ADJACENT PROPERTIES AND CONNECTING STREETS SHALL BE MAINTAINED AT ALL TIMES DURING CONSTRUCTION.

8. THE FINAL SURFACE COURSE IS NOT TO BE PLACED UNTIL SUCH TIME THAT PERMANENT PAVEMENT MARKINGS CAN BE PLACED.

9. ALL TRAFFIC CONTROL SHALL BE SET UP AND SPACED ACCORDING TO THE VIRGINIA WORK AREA PROTECTION MANUAL, 2011 EDITION, REVISION 2.

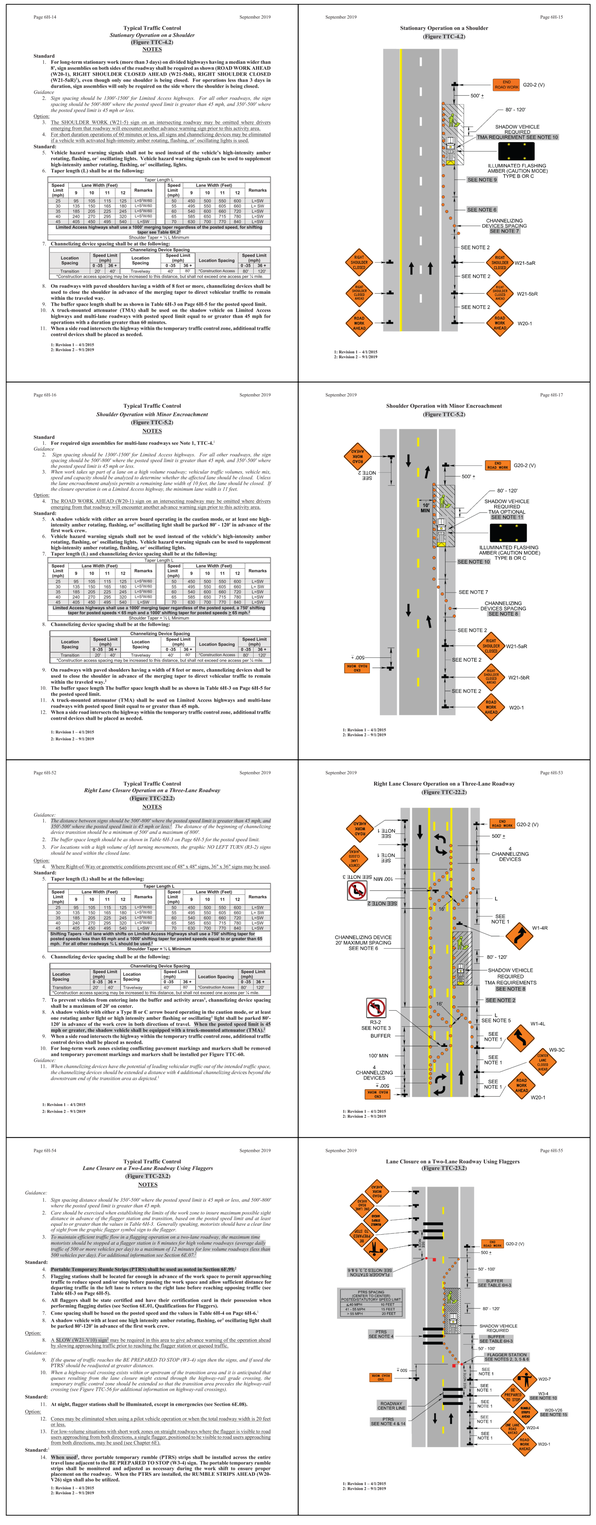
10. CONTRACTOR SHALL PROVIDE ADDITIONAL TRAFFIC CONTROL AS DIRECTED BY THE VIRGINIA DEPARTMENT OF TRANSPORTATION SHOULD FIELD CONDITIONS WARRANT.

11. CONTRACTOR MAY REDUCE LANE WIDTHS TO 10' MINIMUM DURING CONSTRUCTION. ANY TEMPORARY PAVEMENT MARKINGS THAT ARE REQUIRED ARE THE RESPONSIBILITY OF THE CONTRACTOR.

12. CONTRACTOR IS RESPONSIBLE FOR PLACEMENT AND MAINTENANCE OF ALL TEMPORARY PAVEMENT MARKINGS THAT ARE REQUIRED OR IMPLIED IN THE CONSTRUCTION PHASING SHEETS THAT FOLLOW. THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING ALL TRAFFIC CONTROL DEVICES, SIGNAGE, EQUIPMENT, PERSONNEL, INCLUDING CERTIFIED TRAFFIC CONTROL PERSONNEL, ETC. TO CONTROL TRAFFIC DURING CONSTRUCTION WITHIN VDOT MAINTAINED RIGHT-OF-WAY. ALL TRAFFIC CONTROL SHALL BE IN STRICT ACCORDANCE WITH THE STANDARDS, GUIDELINES, POLICIES, AND OBJECTIVES OF THE LATEST EDITION OF THE VIRGINIA WORK AREA PROTECTION MANUAL, 2011 EDITION, REVISION 1, MANUAL FOR UNIFORM TRAFFIC CONTROL DEVICES (MUTCD), AND ALL VDOT PERMITS.

13. AT NO TIME SHALL CONSTRUCTION TAKE PLACE ON BOTH THE RIGHT AND LEFT SIDES OF VEHICLES UNLESS SPECIFIED BY VDOT AND THE ENGINEER.

GREGORY T. STECHER
ADVANCED WORK ZONE TRAFFIC CONTROL VERIFICATION #071216003



COMMONWEALTH OF VIRGINIA
BRIAN COPELAND
Lic. No. 042458
10/28/2020
PROFESSIONAL ENGINEER

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TEL 804.200.6500 FAX 804.560.1016 www.timmons.com

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Site Development | Residential | Infrastructure | Technology

REVISION DESCRIPTION	DATE
	10/28/2020

DRAWN BY: GTS
DESIGNED BY: BTC
CHECKED BY: BTC
SCALE: 1"=25'
JOB NO.: 33882.005
SHEET NO.: 2G(1)

TIMMONS GROUP

ALBEMARLE COUNTY SIDEWALKS
CHARLOTTESVILLE DISTRICT - ALBEMARLE COUNTY - VIRGINIA
TRANSPORTATION MANAGEMENT PLAN

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RIO ROAD SECTION 1 SEQUENCE OF CONSTRUCTION:

PHASE I: SOUTH OF TOWNE LANE TO CONCRETE DRIVEWAY ON TISDALE PROPERTY
PHASE II: CONCRETE DRIVEWAY ON TISDALE PROPERTY TO WALDORF SCHOOL ROAD

CONSTRUCTION CONSISTS OF PERFORMING ALL OPERATIONS FOR COMPLETION OF THE WORK AREA FROM CLEARING/GRUBBING THROUGH PLACEMENT OF THE FINAL SURFACE COURSE ASPHALT PAVEMENT LAYER. IMPROVEMENTS INCLUDE THE INSTALLATION OF STORM SEWER, CURB & GUTTER, ASPHALT PAVEMENT AND SIDEWALK.

TRAFFIC SHALL BE MAINTAINED ACCORDING TO THE TYPICAL TRAFFIC CONTROL FIGURES LISTED IN THE GENERAL NOTES ON SHEET 2G THROUGH THE USE OF GROUP II CHANNELIZING DEVICES AND PROPER SIGNAGE. THIS PHASE WILL BE DONE ENTIRELY UNDER TTC-23.2 AND MODIFIED TTC-22.2 FROM 9:00 AM TO 4:00 PM MON. - FRI. WITH ALL LANES RESTORED DURING PEAK HOURS, OVERNIGHT, HOLIDAYS AND WEEKENDS. WHEN CONSTRUCTION ACTIVITIES OCCUR IN THE VICINITY OF THE WALDORF SCHOOL, STA. 17+25 - 18+40, WORKING HOURS SHALL BE LIMITED TO 9:00 AM TO 1:00 PM MON. - FRI. PHASE I CONSTRUCTION WILL OCCUR WHILE CLOSING THE SOUTHBOUND LANE AND MAINTAINING ONE (1) 10' MIN. LANE UNDER FLAGGING OPERATIONS. PHASE II CONSTRUCTION WILL OCCUR WHILE CLOSING THE SOUTHBOUND LANE AND UTILIZING THE NB LEFT TURN LANE FOR SOUTHBOUND TRAFFIC TO THE MAXIMUM EXTENT POSSIBLE. DURING THIS PHASE, THE PROTECTED LEFT TURN PHASE SHALL BE ELIMINATED FROM THE SIGNAL PHASE WITH ALL NB LEFT TURNS MAKING PERMISSIVE LEFT TURNS FROM THE NB THROUGH LANE. SOUTHBOUND TRAFFIC APPROACHING THE INTERSECTION SHALL SHIFT TO THE THE NB LEFT TURN LANE THROUGH THE INTERSECTION UTILIZING MODIFIED TTC-22.2. ALL OTHER MOVEMENTS SHALL BE MAINTAINED ON ALL APPROACHES IN THE INTERSECTION. ALL MECHANIZED EQUIPMENT SHALL BE UTILIZED FROM THE ADJACENT LANE TO CONSTRUCT STORM SEWER, CURB & GUTTER, SIDEWALK AND ASPHALT PAVEMENT.

1-1 ERECT ALL ADVANCE WARNING SIGNS, GROUP II CHANNELIZING DEVICES, AND OTHER TRAFFIC CONTROL DEVICES AS SHOWN BY THE REFERENCED TTC FIGURES.

1-2 COMMENCE CLEARING AND INSTALLATION OF EROSION CONTROL MEASURES IN ACCORDANCE WITH EROSION AND SEDIMENT CONTROL PLANS. REMOVAL, ABANDONMENT AND ADJUSTMENTS OF UTILITIES SHALL BE COMPLETED PRIOR TO OR DURING THIS PHASE.

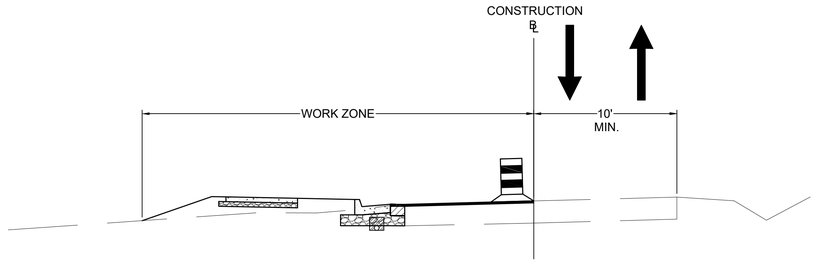
1-3 PERFORM GRADING OPERATIONS IN CONJUNCTION WITH THE INSTALLATION OF PROPOSED STORM SEWERS, SIDEWALK, CURB & GUTTER AND ASPHALT PAVEMENT UP TO THE INTERMEDIATE COURSE WITHIN THE SPECIFIED WORK AREA.

1-4 COMPLETE PLACEMENT OF FINAL SURFACE COURSE ASPHALT, PAVEMENT MARKINGS AND ROADWAY SIGNAGE IN ACCORDANCE WITH SITE PLAN REQUIREMENTS.

RIO ROAD SECTION 1

PHASE I TYPICAL SECTION

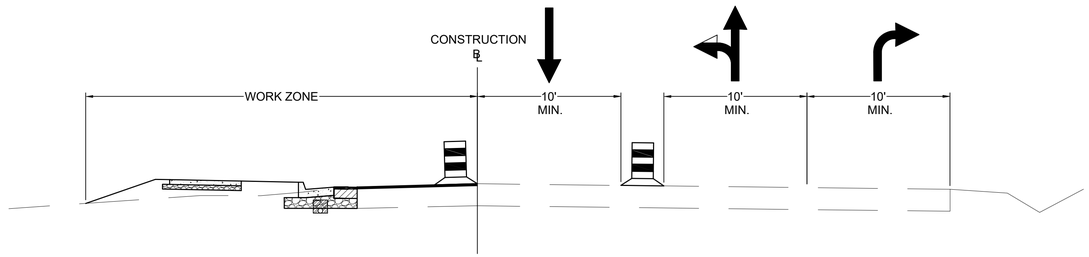
STA. 12+58.56 TO STA. 15+25.00



RIO ROAD SECTION 1

PHASE II TYPICAL SECTION

STA. 15+25.00 TO STA. 17+72.68



RIO ROAD SECTION 2 SEQUENCE OF CONSTRUCTION:

PHASE I: MEADOWCREEK PARKWAY TO DUNLORIA DRIVE
PHASE II: DUNLORIA DRIVE TO NORTHERN TERMINI

CONSTRUCTION CONSISTS OF PERFORMING ALL OPERATIONS FOR COMPLETION OF THE WORK AREA FROM CLEARING/GRUBBING THROUGH PLACEMENT OF THE FINAL SURFACE COURSE ASPHALT PAVEMENT LAYER. IMPROVEMENTS INCLUDE THE INSTALLATION OF STORM SEWER, CURB & GUTTER, ASPHALT PAVEMENT AND SIDEWALK.

TRAFFIC SHALL BE MAINTAINED ACCORDING TO THE TYPICAL TRAFFIC CONTROL FIGURES LISTED IN THE GENERAL NOTES ON SHEET 2G THROUGH THE USE OF GROUP II CHANNELIZING DEVICES AND PROPER SIGNAGE. THIS PHASE WILL BE DONE ENTIRELY UNDER TTC-16.2 AND TTC-23.2 FROM 9:00 AM TO 4:00 PM MON. - FRI. WITH ALL LANES RESTORED DURING PEAK HOURS, OVERNIGHT, HOLIDAYS AND WEEKENDS. PHASE I CONSTRUCTION WILL OCCUR WHILE CLOSING THE NORTHBOUND THROUGH LANE APPROACH TO MEADOWCREEK PARKWAY AND UTILIZING THE NB LEFT TURN LANE FOR ALL NORTHBOUND MOVEMENTS. NORTHBOUND TRAFFIC SHALL BE SHIFTED TO THE NB TURN LANE BY UTILIZING TTC-16.2. SIGNAL PHASING SHALL BE REVISED TO ALLOW ALL MOVEMENTS IN AN ISOLATED PHASE FROM THE NORTHBOUND DIRECTION. ALL OTHER MOVEMENTS SHALL BE MAINTAINED ON ALL APPROACHES IN THE INTERSECTION. PHASE II CONSTRUCTION WILL OCCUR WHILE CLOSING THE SOUTHBOUND LANE AND MAINTAINING ONE (1) 10' MIN. LANE UNDER FLAGGING OPERATIONS. ALL MECHANIZED EQUIPMENT SHALL BE UTILIZED FROM THE ADJACENT LANE TO CONSTRUCT STORM SEWER, CURB & GUTTER, SIDEWALK AND ASPHALT PAVEMENT.

1-1 ERECT ALL ADVANCE WARNING SIGNS, GROUP II CHANNELIZING DEVICES, AND OTHER TRAFFIC CONTROL DEVICES AS SHOWN BY THE REFERENCED TTC FIGURES.

1-2 COMMENCE CLEARING AND INSTALLATION OF EROSION CONTROL MEASURES IN ACCORDANCE WITH EROSION AND SEDIMENT CONTROL PLANS. REMOVAL, ABANDONMENT AND ADJUSTMENTS OF UTILITIES SHALL BE COMPLETED PRIOR TO OR DURING THIS PHASE.

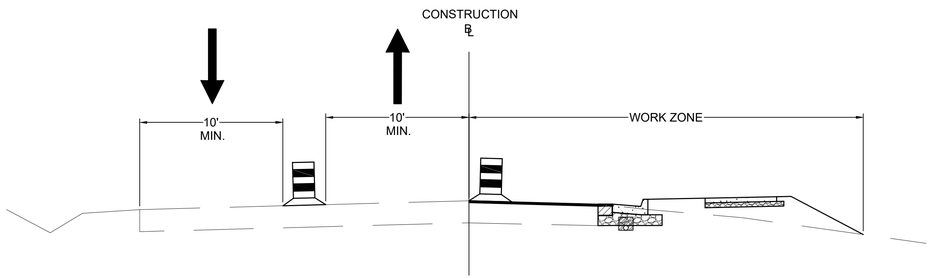
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1-4 COMPLETE PLACEMENT OF FINAL SURFACE COURSE ASPHALT, PAVEMENT MARKINGS AND ROADWAY SIGNAGE IN ACCORDANCE WITH SITE PLAN REQUIREMENTS.

RIO ROAD SECTION 2

PHASE I TYPICAL SECTION

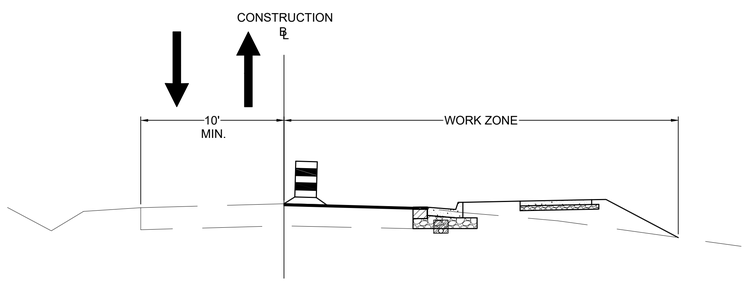
STA. 10+00 TO STA. 16+44.44



RIO ROAD SECTION 2

PHASE II TYPICAL SECTION

STA. 17+00 TO STA. 18+39.68



COMMONWEALTH OF VIRGINIA
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Lic. No. 042458
10/28/2020
PROFESSIONAL ENGINEER

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DATE 10/28/2020
DRAWN BY GTS
DESIGNED BY BTC
CHECKED BY BTC
SCALE 1"=5'

TIMMONS GROUP

ALBEMARLE COUNTY SIDEWALKS
CHARLOTTESVILLE DISTRICT - ALBEMARLE COUNTY - VIRGINIA
RIO ROAD TRANSPORTATION MANAGEMENT PLAN

JOB NO. 33882.005
SHEET NO. 2G(2)

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ROCKFISH GAP TURNPIKE SEQUENCE OF CONSTRUCTION:

PHASE I: COREY FARM ROAD TO RADFORD LANE

CONSTRUCTION CONSISTS OF PERFORMING ALL OPERATIONS FOR COMPLETION OF THE WORK AREA FROM CLEARING/GRUBBING THROUGH PLACEMENT OF THE FINAL SURFACE COURSE ASPHALT PAVEMENT LAYER. IMPROVEMENTS INCLUDE THE INSTALLATION OF STORM SEWER, CURB & GUTTER, TRAFFIC BARRIER, ASPHALT PAVEMENT AND SIDEWALK.

TRAFFIC SHALL BE MAINTAINED ACCORDING TO THE TYPICAL TRAFFIC CONTROL FIGURES LISTED IN THE GENERAL NOTES ON SHEET 2G THROUGH THE USE OF GROUP II CHANNELIZING DEVICES AND PROPER SIGNAGE. THIS PHASE WILL BE CONSTRUCTED UNDER TTC-22.2 AND MODIFIED TTC-29.2 FOR CLOSURE OF WESTBOUND RIGHT TURN LANES, WHERE APPLICABLE, FROM 9AM-4PM MON. - FRI. WITH ALL LANES RESTORED DURING PEAK HOURS, OVERNIGHT, HOLIDAYS AND WEEKENDS. ALL MECHANIZED EQUIPMENT SHALL BE UTILIZED FROM THE ADJACENT LANE TO CONSTRUCT STORM SEWER, CURB & GUTTER, SIDEWALK AND ASPHALT PAVEMENT.

1-1 ERECT ALL ADVANCE WARNING SIGNS, GROUP II CHANNELIZING DEVICES, AND OTHER TRAFFIC CONTROL DEVICES AS SHOWN BY THE REFERENCED TTC FIGURES.

1-2 COMMENCE CLEARING AND INSTALLATION OF EROSION CONTROL MEASURES IN ACCORDANCE WITH EROSION AND SEDIMENT CONTROL PLANS. REMOVAL, ABANDONMENT AND ADJUSTMENTS OF UTILITIES SHALL BE COMPLETED PRIOR TO OR DURING THIS PHASE.

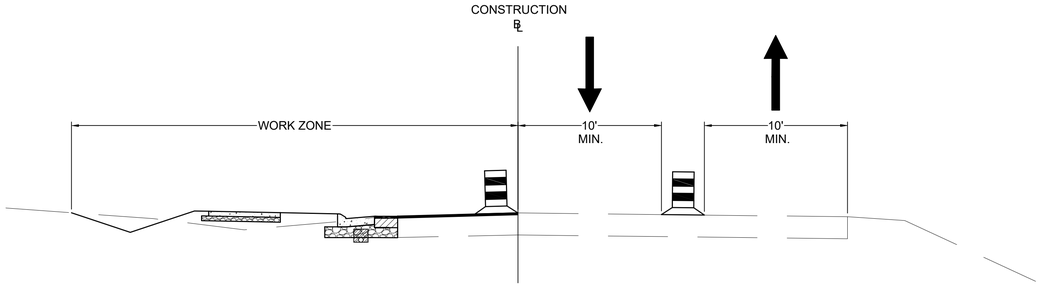
1-3 PERFORM GRADING OPERATIONS IN CONJUNCTION WITH THE INSTALLATION OF PROPOSED STORM SEWERS, SIDEWALK, CURB & GUTTER, TRAFFIC BARRIER AND ASPHALT PAVEMENT UP TO THE INTERMEDIATE COURSE WITHIN THE SPECIFIED WORK AREA.

1-4 COMPLETE PLACEMENT OF FINAL SURFACE COURSE ASPHALT, PAVEMENT MARKINGS AND ROADWAY SIGNAGE IN ACCORDANCE WITH SITE PLAN REQUIREMENTS.

ROCKFISH GAP TURNPIKE

PHASE I TYPICAL SECTION

STA. 10+00.00 TO STA. 18+09.38



ROCKFISH GAP TURNPIKE SEQUENCE OF CONSTRUCTION:

PHASE II: WESTBOUND ROCKFISH GAP TURNPIKE FROM CLOVER LAWN LANE TO RADFORD LANE
PHASE III: EASTBOUND ROCKFISH GAP TURNPIKE FROM RADFORD LANE TO CLOVER LAWN LANE

CONSTRUCTION CONSISTS OF PERFORMING ALL OPERATIONS FOR COMPLETION OF THE WORK AREA FROM CLEARING/GRUBBING THROUGH PLACEMENT OF THE FINAL SURFACE COURSE ASPHALT PAVEMENT LAYER. IMPROVEMENTS INCLUDE THE INSTALLATION OF STORM SEWER, CURB & GUTTER, ASPHALT PAVEMENT AND SIDEWALK.

TRAFFIC SHALL BE MAINTAINED ACCORDING TO THE TYPICAL TRAFFIC CONTROL FIGURES LISTED IN THE GENERAL NOTES ON SHEET 2G THROUGH THE USE OF GROUP II CHANNELIZING DEVICES AND PROPER SIGNAGE. THIS PHASE WILL BE CONSTRUCTED ENTIRELY UNDER MODIFIED TTC-29.2 FOR RIGHT TURN LANE CLOSURE FROM 9AM-4PM MON. - FRI. WITH ALL LANES RESTORED DURING PEAK HOURS, OVERNIGHT, HOLIDAYS AND WEEKENDS. THIS CONSTRUCTION WILL OCCUR WHILE CLOSING THE RIGHT TURN LANE AND MAINTAINING ONE (1) 10' MIN. LANE IN EACH DIRECTION. ALL MECHANIZED EQUIPMENT SHALL BE UTILIZED FROM THE ADJACENT LANE TO CONSTRUCT STORM SEWER, CURB & GUTTER, SIDEWALK AND ASPHALT PAVEMENT.

1-1 ERECT ALL ADVANCE WARNING SIGNS, GROUP II CHANNELIZING DEVICES, AND OTHER TRAFFIC CONTROL DEVICES AS SHOWN BY THE REFERENCED TTC FIGURES.

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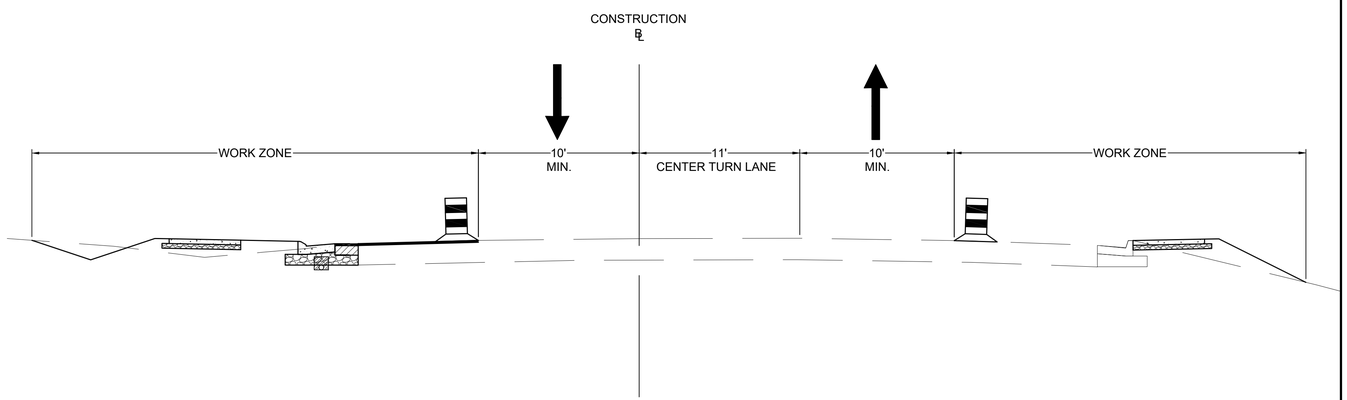
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1-4 COMPLETE PLACEMENT OF FINAL SURFACE COURSE ASPHALT, PAVEMENT MARKINGS AND ROADWAY SIGNAGE IN ACCORDANCE WITH SITE PLAN REQUIREMENTS.

ROCKFISH GAP TURNPIKE

PHASE II TYPICAL SECTION

STA. 18+61.77 TO STA. 21+96.64



ROCKFISH GAP TURNPIKE

PHASE III TYPICAL SECTION

STA. 18+61.77 TO STA. 21+96.64

COMMONWEALTH OF VIRGINIA
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DESIGNED BY: BTC
CHECKED BY: BTC
SCALE: 1"=5'

TIMMONS GROUP

ALBEMARLE COUNTY SIDEWALKS

CHARLOTTESVILLE DISTRICT - ALBEMARLE COUNTY - VIRGINIA

ROCKFISH GAP TURNPIKE TRANSPORTATION MANAGEMENT PLAN

JOB NO. 33882.005

SHEET NO. 2G(3)

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AVON STREET EXTENDED SOUTH SECTION SEQUENCE OF CONSTRUCTION:

PHASE I: ARDEN DRIVE TO STONEY CREEK DRIVE

CONSTRUCTION CONSISTS OF PERFORMING ALL OPERATIONS FOR COMPLETION OF THE WORK AREA FROM CLEARING/GRUBBING THROUGH PLACEMENT OF THE FINAL SURFACE COURSE ASPHALT PAVEMENT LAYER. IMPROVEMENTS INCLUDE THE INSTALLATION OF STORM SEWER, CURB & GUTTER, ASPHALT PAVEMENT AND SIDEWALK.

TRAFFIC SHALL BE MAINTAINED ACCORDING TO THE TYPICAL TRAFFIC CONTROL FIGURES LISTED IN THE GENERAL NOTES ON SHEET 2G THROUGH THE USE OF GROUP II CHANNELIZING DEVICES AND PROPER SIGNAGE. THIS PHASE WILL BE CONSTRUCTED ENTIRELY UNDER TTC-23.1 AND MODIFIED TTC-29.1 FOR CLOSURE OF THE SOUTHBOUND RIGHT TURN LANE AT ARDEN DRIVE. WORK SHALL COMMENCE FROM 9AM-4PM MON. - FRI. WITH ALL LANES RESTORED DURING PEAK HOURS, OVERNIGHT, HOLIDAYS AND WEEKENDS. ALL MECHANIZED EQUIPMENT SHALL BE UTILIZED FROM THE ADJACENT LANE TO CONSTRUCT STORM SEWER, CURB & GUTTER, SIDEWALK AND ASPHALT PAVEMENT.

1-1 ERECT ALL ADVANCE WARNING SIGNS, GROUP II CHANNELIZING DEVICES, AND OTHER TRAFFIC CONTROL DEVICES AS SHOWN BY THE REFERENCED TTC FIGURES.

1-2 COMMENCE CLEARING AND INSTALLATION OF EROSION CONTROL MEASURES IN ACCORDANCE WITH EROSION AND SEDIMENT CONTROL PLANS. REMOVAL, ABANDONMENT AND ADJUSTMENTS OF UTILITIES SHALL BE COMPLETED PRIOR TO OR DURING THIS PHASE.

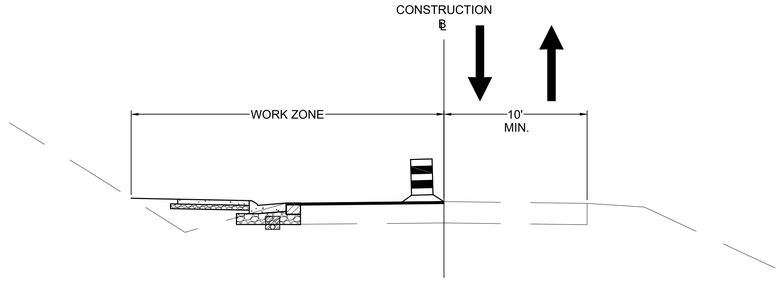
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1-4 COMPLETE PLACEMENT OF FINAL SURFACE COURSE ASPHALT, PAVEMENT MARKINGS AND ROADWAY SIGNAGE IN ACCORDANCE WITH SITE PLAN REQUIREMENTS.

AVON STREET EXTENDED SOUTH SECTION

PHASE I TYPICAL SECTION

STA. 10+10.00 TO STA.19+91.45



AVON STREET EXTENDED NORTH SECTION SEQUENCE OF CONSTRUCTION:

PHASE I: STA. 20+00 TO MILL CREEK DRIVE
PHASE II: MILL CREEK DRIVE TO STA. 44+00
PHASE III: STA. 44+00 TO SWAN LAKE DRIVE

CONSTRUCTION CONSISTS OF PERFORMING ALL OPERATIONS FOR COMPLETION OF THE WORK AREA FROM CLEARING/GRUBBING THROUGH PLACEMENT OF THE FINAL SURFACE COURSE ASPHALT PAVEMENT LAYER. IMPROVEMENTS INCLUDE THE INSTALLATION OF STORM SEWER, CURB & GUTTER, ASPHALT PAVEMENT AND SIDEWALK.

TRAFFIC SHALL BE MAINTAINED ACCORDING TO THE TYPICAL TRAFFIC CONTROL FIGURES LISTED IN THE GENERAL NOTES ON SHEET 2G THROUGH THE USE OF GROUP II CHANNELIZING DEVICES AND PROPER SIGNAGE. PHASE I OF CONSTRUCTION WILL BE CONSTRUCTED UNDER TTC-23.1. PHASE II OF CONSTRUCTION WILL BE CONSTRUCTED UNDER TTC-22.1. PHASE III WILL BE CONSTRUCTED UNDER TTC-29.1 FOR CLOSURE OF NORTHBOUND RIGHT TURN LANES. WORK SHALL COMMENCE FROM 9AM-4PM MON. - FRI. WITH ALL LANES RESTORED DURING PEAK HOURS, OVERNIGHT, HOLIDAYS AND WEEKENDS. ALL MECHANIZED EQUIPMENT SHALL BE UTILIZED FROM THE ADJACENT LANE TO CONSTRUCT STORM SEWER, CURB & GUTTER, SIDEWALK AND ASPHALT PAVEMENT.

1-1 ERECT ALL ADVANCE WARNING SIGNS, GROUP II CHANNELIZING DEVICES, AND OTHER TRAFFIC CONTROL DEVICES AS SHOWN BY THE REFERENCED TTC FIGURES.

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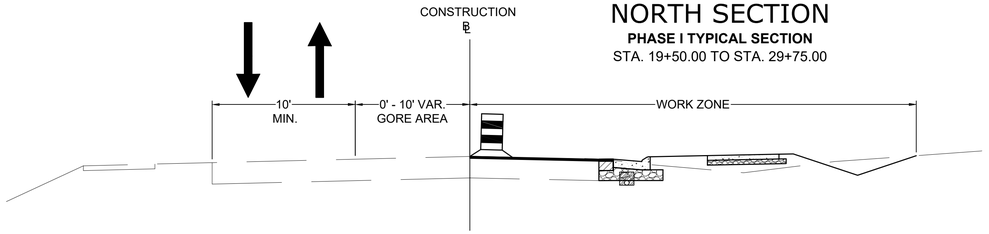
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1-4 COMPLETE PLACEMENT OF FINAL SURFACE COURSE ASPHALT, PAVEMENT MARKINGS AND ROADWAY SIGNAGE IN ACCORDANCE WITH SITE PLAN REQUIREMENTS.

AVON STREET EXTENDED NORTH SECTION

PHASE I TYPICAL SECTION

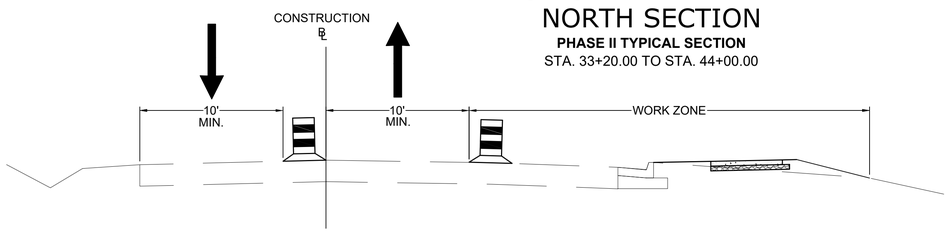
STA. 19+50.00 TO STA. 29+75.00



AVON STREET EXTENDED NORTH SECTION

PHASE II TYPICAL SECTION

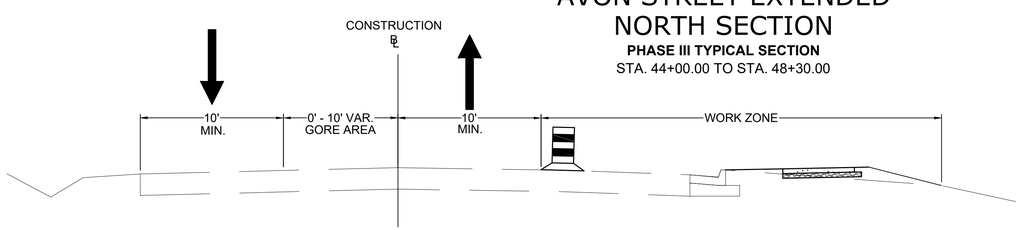
STA. 33+20.00 TO STA. 44+00.00



AVON STREET EXTENDED NORTH SECTION

PHASE III TYPICAL SECTION

STA. 44+00.00 TO STA. 48+30.00



COMMONWEALTH OF VIRGINIA
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DESIGNED BY: BTC
CHECKED BY: BTC
SCALE: 1"=5'

TIMMONS GROUP

ALBEMARLE COUNTY SIDEWALKS
CHARLOTTESVILLE DISTRICT - ALBEMARLE COUNTY - VIRGINIA
AVON STREET EXTENDED TRAFFIC MANAGEMENT PLAN

JOB NO. 33882.005
SHEET NO. 2G(4)

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INDEX OF SHEETS

Sheet No.:	Sheet Description:
2H(1)	Index of Sheets, General Notes, Legend
2H(2)	Summary of Quantities
2H(3)	Traffic Signal Modification Plan
2H(3A)	Traffic Signal Pole Locations

GENERAL NOTES - TRAFFIC SIGNALS

1. Pavement Markings are shown on the signal plans for representation purposes only. Actual Pavement Markings shall be in accordance with the Pavement Marking Plans.

2. Traffic Signal equipment removed from service shall remain the property of VDOT. The Contractor shall contact VDOT at (540) 332-9144 at least two weeks prior to removal and delivery of the signal equipment to coordinate salvaging and disposal.

3. If the Contractor perceives a conflict between utilities and the proposed traffic signal equipment, the Contractor shall notify the Engineer immediately so that the conflict may be reviewed. The Contractor shall be responsible for repairing or replacing, at their own expense, any existing utilities, pavement, concrete items, pipes, etc. that are damaged during construction.

4. All unused wires in the signal heads shall be capped individually with crimp type caps.

5. Northwest Region Signal Operations Engineer of VDOT will provide signal timings for implementation. The contractor shall contact (540) 332-9144 at least two weeks in advance of requiring these timings.

6. All traffic signal and signing work and adjustments to proposed signals shall be constructed in accordance with the Plans, the Virginia Department of Transportation (VDOT) Road & Bridge Specifications dated 2016, VDOT Road & Bridge Standards dated 2016, the Manual on Uniform Traffic Control Devices, 2009 Edition (MUTCD), the 2011 Virginia Supplement to the MUTCD, the 2002 National Electrical Code, Special Provision Copied Notes and Special Provisions at the time of advertisement.

7. Video Detection Zones (VDZ) shall be placed five feet in front of the stop bars. However, the video camera placements and VDZ's may be field adjusted as necessary to provide optimal detection capabilities. Wiring shall be adjusted as necessary if the camera locations are modified.

8. Traffic signal heads and mast arm signs may be field adjusted no more than 2' in either direction on the mast arms, provided they remain within the designated travel lane assignments. If further adjustment is needed, the Project Inspector shall contact The Northwest Region Construction Specialist at (540) 480-9127.

9. Emergency preemption detectors and confirmation lights shall be located as shown on the plans, however, may be field adjusted as necessary to provide optimal detection capabilities. Wiring shall be adjusted as necessary if the detector and light locations are modified.

10. All underground and overhead utilities shown on these plans are approximate only and may not be complete. At least 72 hours prior to beginning signal work, the Contractor shall contact "Miss Utility of Virginia" at 1-800-552-7001 in order to determine the extent, location, and identify all of the utilities within the work area. If the Contractor perceives a conflict between utilities and the proposed traffic signal equipment, the Contractor shall notify the Engineer immediately so that the conflict may be reviewed. The Contractor shall be responsible for repairing or replacing, at their own expense, any existing utilities, pavement, concrete items, etc. that are damaged or disturbed during construction.

11. All poles shall be field staked by the Contractor and inspected by the Engineer and Contractor per Section 700.03 prior to installation of foundations.

12. The Contractor shall verify mast arms lengths and signal head lane coverage prior to the installation of signal pole foundations.

13. Junction boxes may be relocated in the field as necessary provided they remain within the right of way, do not conflict with utilities and remain outside the pavement section. Junction boxes shall be spaced no more than 195' apart except for communication cable conduits between intersections which shall be spaced no more than 500' apart.

14. Conduit systems shall be bonded in accordance with Section 700 of the Road & Bridge Specifications. Equipment Grounding Conductor (EGC) noted in the Cable & Conduit Legend with a (•) in new conduits, are required only if necessary to provide a bonded system.

STANDARD TRAFFIC SIGNAL LEGEND

PLAN ITEM		PLAN SYMBOL PROPOSED	PLAN SYMBOL EXISTING
Metal Signal Pole & Foundation and Mast Arm (As noted in Signal Pole Legend)			
Pedestal Pole and Foundation (St'd.PF-2)			
Pedestal Pole and Foundation (St'd.PA-3)			
Traffic Signal Head	w/ Backplate		
	w/o Backplate		
Pedestrian Signal Head			
Pedestrian Pushbutton & Sign		P.B.	P.B.
Traffic Signal Sign	Mast Arm or Span Wire Mt'd.		
	Pole Mounted		
Emergency Vehicle Pre-emption (EVP) Sensor			
	w/ Conf.Light		
	w/o Conf.Light		
Video Detection Camera			
Junction Box (St'd.as noted on plans)		J	J
Signal Luminaire (250 W) and Arm			
Signal Luminaire (400 W) and Arm			
Loop Detector (Size as noted on plans)		6' x 20'	6' x 20'
Video Detection Zone (Size as noted on plans)		VDZ 6' x 20'	VDZ 6' x 20'
Conduit			

PLAN ITEM		PLAN SYMBOL PROPOSED	PLAN SYMBOL EXISTING
Electrical Service Meter		SM	SM
Electrical Service Safety Switch (Disconnect)		SD	SD
Controller Cabinet	Ground Mounted		
	Pole Mounted		
Master Controller Cabinet	Ground Mounted	MC	MC
	Pole Mounted	MC	MC
Controller Cabinet & Foundation	Std.CF-1	CF 1	CF 1
	Std.CF-3	CF 3	CF 3
	Std.CF-4	CF 4	CF 4
Master Controller Cabinet & Foundation	Std.CF-1	MC CF 1	MC CF 1
	Std.CF-3	MC CF 3	MC CF 3
	Std.CF-4	MC CF 4	MC CF 4
Uninterruptible Power Supply Cabinet		UPS	UPS

LABELS

Signal Pole or Controller	A	Proposed Signal Head	2	Signal Phasing	Ø2	Sign	S-1
Cable and Conduit	A	Existing Signal Head	2	Pedestrian Phasing	P2	Video Detection Camera	VDC-1
Junction Box	S3	Proposed Pedestrian Signal Head	P2			Emergency Preemption Detector	EVP-1
		Existing Pedestrian Signal Head	P2				

TRAFFIC CONTROL DEVICE PLANS

TRAFFIC SIGNAL
INDEX OF SHEETS, GENERAL NOTES & LEGEND(S)
ALBEMARLE COUNTY

Traffic Signal ID: 02153

COMMONWEALTH OF VIRGINIA
ANDREW LANE SMITH
Lic. No. 053606
10/28/2020
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DATE	REVISION DESCRIPTION

DATE 10/28/2020
DRAWN BY BPW
DESIGNED BY ALS
CHECKED BY CMK
SCALE N/A

TIMMONS GROUP

ALBEMARLE COUNTY SIDEWALKS
COUNTY OF ALBEMARLE, VIRGINIA

TRAFFIC SIGNAL INDEX OF SHEETS, GENERAL NOTES, & LEGEND

JOB NO. 33882.005
SHEET NO. 2H(1)

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SUMMARY OF QUANTITIES

		TCD Discipline	SIGNALS																
		Summary Notes																	
		Item Description	Modify Existing Controller Cabinet	Sign Panel	Pedestal Pole PF-2 10'	Concrete Foundation PF-2	14/4 Conductor Cable	14/2 Conductor Cable Shielded	Hanger Assembly SMB-3, One Way	Traffic Signalization Accessible Ped Push Button (PA-2)	Pedestrian Signal Head SP-8	Junction Box JB-S2	Bored Conduit 3"	2" PVC Conduit	Trench Excavation EC1-1				
		ITEM NO.	24825	50108	51210	51240	51602	51700	51838	52002	52403	55587	56051	56053	56200				
Int. No.	Intersection	UNIT	EA	SF	EA	EA	LF	LF	EA	EA	EA	EA	LF	LF	LF				
		SHEET NO.																	
1	Rio Rd. & Pen Park Rd.	2H(3)	1	3.75	4	4	525	505	4	4	4	1	95	50	50				
	TOTAL		1	3.75	4	4	525	505	4	4	4	1	95	50	50				

NOTES:

1. STRIPING QUANTITIES WILL BE SUBMITTED SEPARATELY WITH ROADWAY DESIGN PLANS.

REFERENCES (PLAN AND DETAIL SHEETS)	
Traffic Signal Modification Sheet	2H(3)

TRAFFIC CONTROL DEVICE PLANS
TRAFFIC SIGNAL
SUMMARY OF QUANTITIES
ALBERMARLE COUNTY

COMMONWEALTH OF VIRGINIA
ANDREW LANE SMITH
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10/28/2020
PROFESSIONAL ENGINEER

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DATE	REVISION DESCRIPTION

DATE 10/28/2020
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ALBEMARLE COUNTY SIDEWALKS
COUNTY OF ALBEMARLE, VIRGINIA
SUMMARY OF QUANTITIES

JOB NO. 33882.005
SHEET NO. 2H(2)

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Signal Pole & Controller Legend

(ALL DIMENSIONS ARE TO CENTER OF POLE)

Ⓘ EXISTING CONTROLLER CABINET & FOUNDATION (CF-1)
UPS Cabinet attached to Controller Cabinet

Ⓐ EXISTING MAST ARM POLE MP-1,TYPE I
Existing 60' Arm Approx. 225° Angle to Rio Rd
Signal Placement: 19.5', 30', 35', 51.5', 52.5', 53'
Sign Placement: 40', 47.5', 58', 59'
Emergency Preemption Detector: 20.5', 26'
Video Detector: 28', 51', 55.5', 56'
Existing Electrical Service, SE-3, Type A on Signal Pole.

Ⓑ EXISTING MAST ARM POLE MP-1,TYPE I
Existing 40' Arm Approx. 45° Angle to Rio Rd
Signal Placement: 16', 30.5', 36', 37'

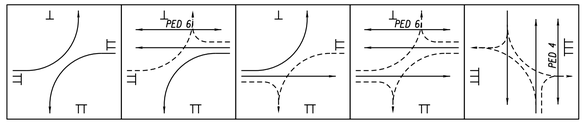
Ⓒ PEDESTAL POLE (PF-2),10'
Install Pedestrian Signal Head, SP-8, on Pedestal Pole (SMB-3)
Install Accessible Ped. Push Button, PA-2, on Pedestal Pole

Ⓓ PEDESTAL POLE (PF-2),10'
Install Pedestrian Signal Head, SP-8, on Pedestal Pole (SMB-3)
Install Accessible Ped. Push Button, PA-2, on Pedestal Pole

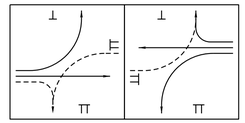
Ⓔ PEDESTAL POLE (PF-2),10'
Install Pedestrian Signal Head, SP-8, on Pedestal Pole (SMB-3)
Install Accessible Ped. Push Button, PA-2, on Pedestal Pole

Ⓕ PEDESTAL POLE (PF-2),10'
Install Pedestrian Signal Head, SP-8, on Pedestal Pole (SMB-3)
Install Accessible Ped. Push Button, PA-2, on Pedestal Pole

Phasing Diagram



Preemption Diagram



Color Sequence Chart

	SIGNAL	COMBINATIONS					FLASH
		1-5	1-6	2-5	2-6	4-8	
SIGNALS	1	→G	→G	→FY	→FY		→Y
	2			G	G		Y
	4					G	R
	5	→G	→FY	→G	→FY		→Y
	6		G		G		Y
	8					G	R
	P4	DW	DW	DW	DW	W	BLANK
	P6	DW	W	DW	W	DW	BLANK

- Empty Box denotes RED Indication (Red Ball or Red Arrow as appropriate)
- Pedestrian signals shall display the don't walk symbol during emergency preemption activation.

JUNCTION BOX LEGEND

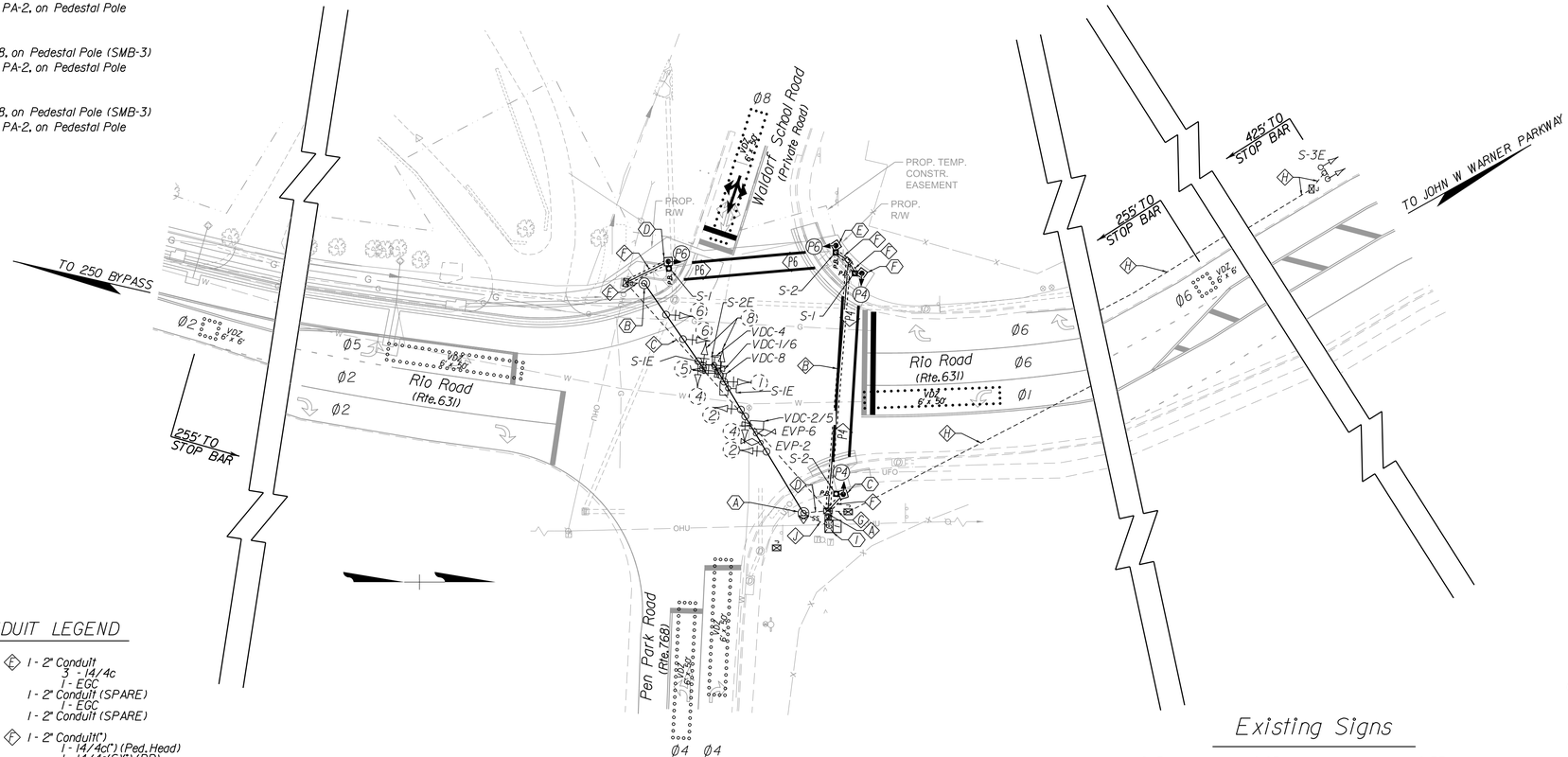
All Junction Boxes shall conform to St'd. JB-S2 unless otherwise noted on the plans.

(S3) Denotes St'd. JB-S3

(R1) Denotes St'd. JB-R1

SPEED LIMITS

Rio Rd.	35 MPH
Pen Park Rd.	35 MPH



CABLE AND CONDUIT LEGEND

Ⓐ 1 - 2" Conduit
2 - 14/7c
6 - 14/4c
4 - VDC
4 - 16/3c
1 - EGC
1 - 2" Conduit
4 - 14/4c(*) (Ped. Heads)
4 - 14/2c(S)(*) (PB)
2 - EPDC
2 - 14/2c (Pre-Empt Confirm.)
1 - EGC
1 - 2" Conduit
1 - 14/4c (Adv. Flasher)
1 - EGC
2 - 2" Conduit (SPARE)
1 - EGC

Ⓑ 1 - 3" Conduit (Bored)(*)
2 - 14/4c(*) (Ped. Heads)
2 - 14/2c(S)(*) (PB)
1 - EGC(*)

Ⓒ 1 - 2" Conduit (Bored)
3 - 14/4c
1 - EGC
1 - 2" Conduit (Bored)
1 - 14/4c(*) (Ped. Head)
1 - 14/4c(S)(*) (PB)
1 - EGC

Ⓓ 1 - 2" Conduit
2 - 14/7c
3 - 14/4c
1 - EGC
1 - 2" Conduit
4 - VDC
4 - 16/3c
2 - EPDC
2 - 14/2c (Pre-Empt Confirm.)
1 - EGC
1 - 2" Conduit (SPARE)
1 - EGC

Ⓔ 1 - 2" Conduit
3 - 14/4c
1 - EGC
1 - 2" Conduit (SPARE)
1 - EGC
1 - 2" Conduit (SPARE)

Ⓕ 1 - 2" Conduit(*)
1 - 14/4c(*) (Ped. Head)
1 - 14/4c(S)(*) (PB)
1 - EGC(*)

Ⓖ 1 - 2" Conduit
1 - 14/4c (Adv. Flasher)
1 - EGC
1 - 2" Conduit (SPARE)
1 - EGC

Ⓗ 1 - 2" Conduit
1 - 14/4c (Adv. Flasher)
1 - EGC

Ⓙ 1 - 2" Conduit
1 - 8/3c for Power

ACRONYM/ABBREVIATION DEFINITION:

PB - Push Button
S - Shielded Cable
EGC - Equipment Grounding Conductor
EPDC - Emergency Preemption Detector Cable
VDC - Video Detection Cable

Equipment shown is existing except as denoted by (*)

Scope of Modifications:

1. Bore new 3" conduit under Rio Rd as shown. Install new JB-S2 junction box on NW corner. Install new 2" conduits as shown on NW, NE, and SW corners.

2. Install new PF-2 Foundations and Pedestal Poles on NW, NE, and SW corners. Refer to sheet 2H(3A) for pole location details. Install SP-8 Pedestrian Signal Heads with SMB-3 type mounting on pedestal poles. Install PA-2 Accessible Ped. Push Buttons on pedestal poles.

3. New 14/4c cables for Pedestain Signals and 14/2c(S) cables for Accessible Ped. Push Buttons shall be installed from controller cabinet to pedestal poles.

4. Modify existing controller cabinet for new pedestrian crossings and accessible ped. push button actuation.

Proposed Signals

SP-8

P4, P6

Proposed Signs

S-1
R10-3E(R)
(9" x 15")
QUANTITY - 2 EA.

S-2
R10-3E(L)
(9" x 15")
QUANTITY - 2 EA.

Existing Signs

S-1E
LEFT TURN
YIELD
ON FLASHING
YELLOW
ARROW

S-2E
NO
TURN
ON
RED

S-3E
(FY)
(FY)

Existing Signals

1, 5

2, 4, 6, 8

SCALE
0 25' 50'

REFERENCES
(PLAN AND DETAIL SHEETS)

Summary of Quantities	2H(2)
Signal Pole Location Sheet	2H(3A)
Plan & Pavement Marking Sheet	3A

TRAFFIC CONTROL DEVICE PLANS

TRAFFIC SIGNAL PLAN

RTE. 631 (RIO ROAD) &
RTE. 768 (PEN PARK ROAD)

ALBEMARLE COUNTY

COMMONWEALTH OF VIRGINIA
ANDREW LANE SMITH
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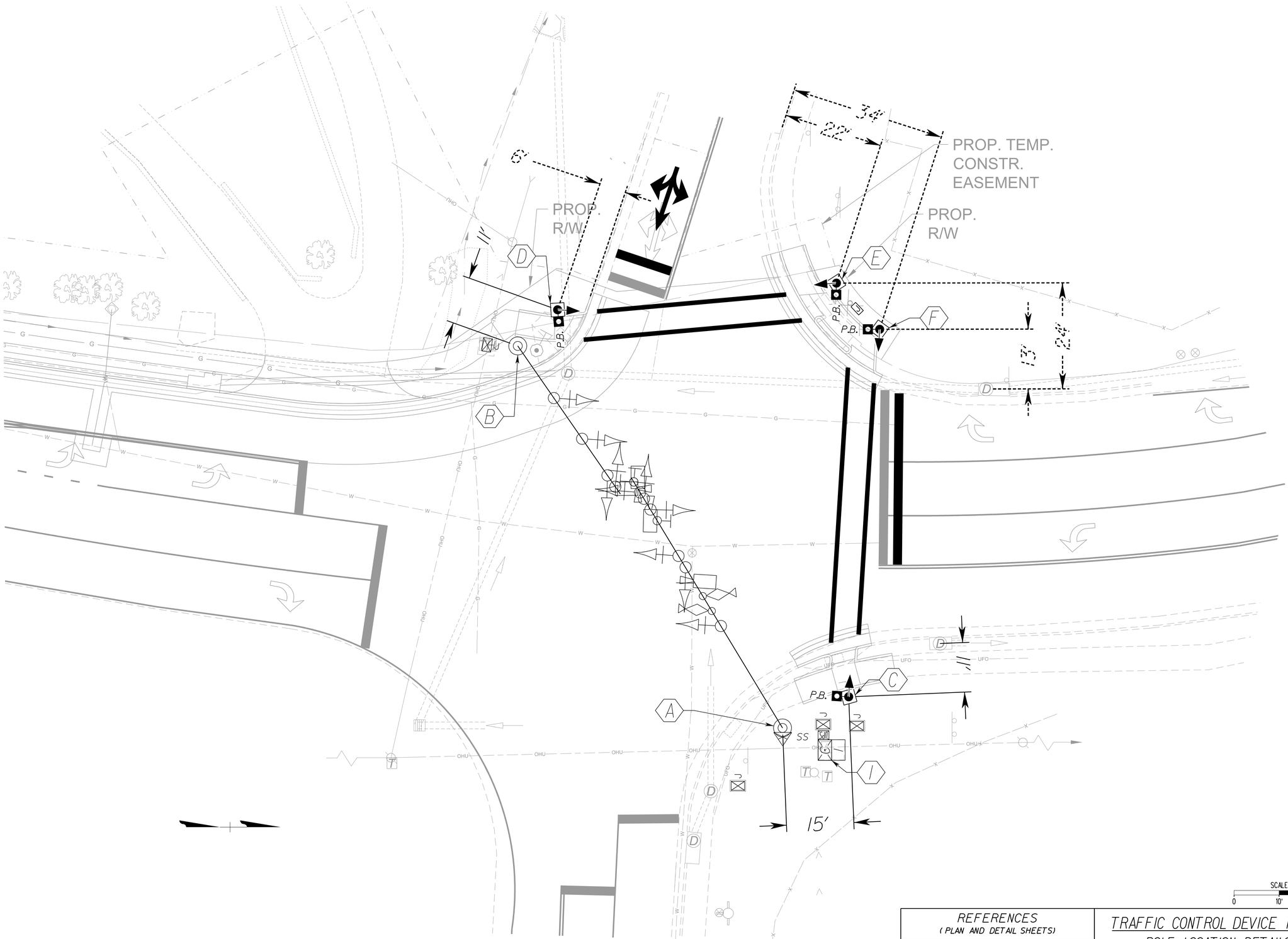
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ALBEMARLE COUNTY SIDEWALKS
COUNTY OF ALBEMARLE, VIRGINIA

TRAFFIC SIGNAL MODIFICATION PLAN

JOB NO. 33882.005
SHEET NO. 2H(3)

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SCALE
0 10' 20'

REFERENCES
(PLAN AND DETAIL SHEETS)

Traffic Signal Modification Plan	2H(3)

TRAFFIC CONTROL DEVICE PLANS
POLE LOCATION DETAILS
RTE. 631 (RIO ROAD) &
RTE. 768 (PEN PARK ROAD)
ALBEMARLE COUNTY

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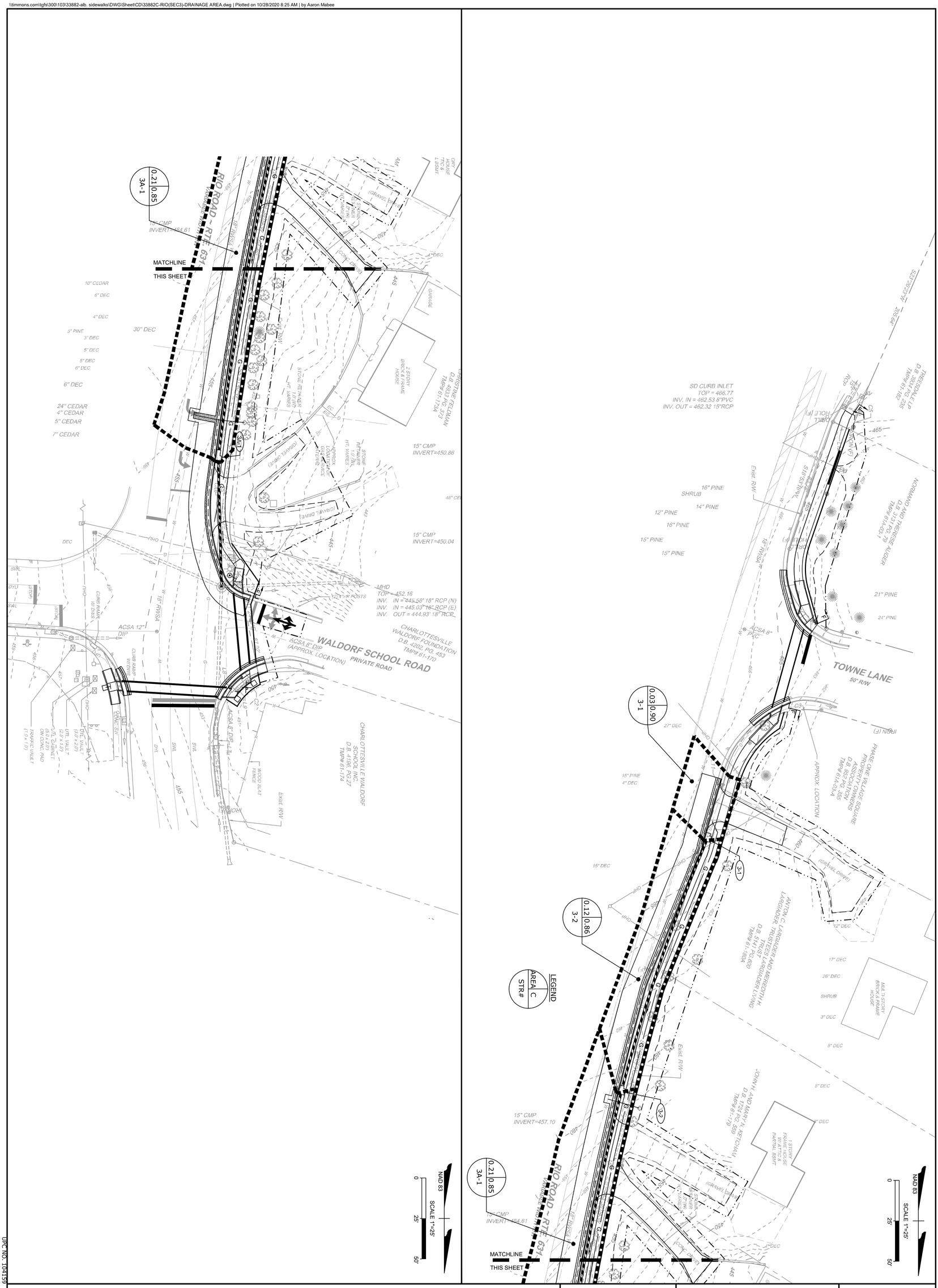
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ALBEMARLE COUNTY SIDEWALKS
COUNTY OF ALBEMARLE, VIRGINIA
TRAFFIC SIGNAL POLE LOCATIONS

JOB NO. 33882.005
SHEET NO. 2H(3A)

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JUSTIN M. BRAWNER
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10/28/2020

ALBEMARLE COUNTY SIDEWALKS

COUNTY OF ALBEMARLE, VIRGINIA

RIO ROAD SECTION 1 DRAINAGE AREA

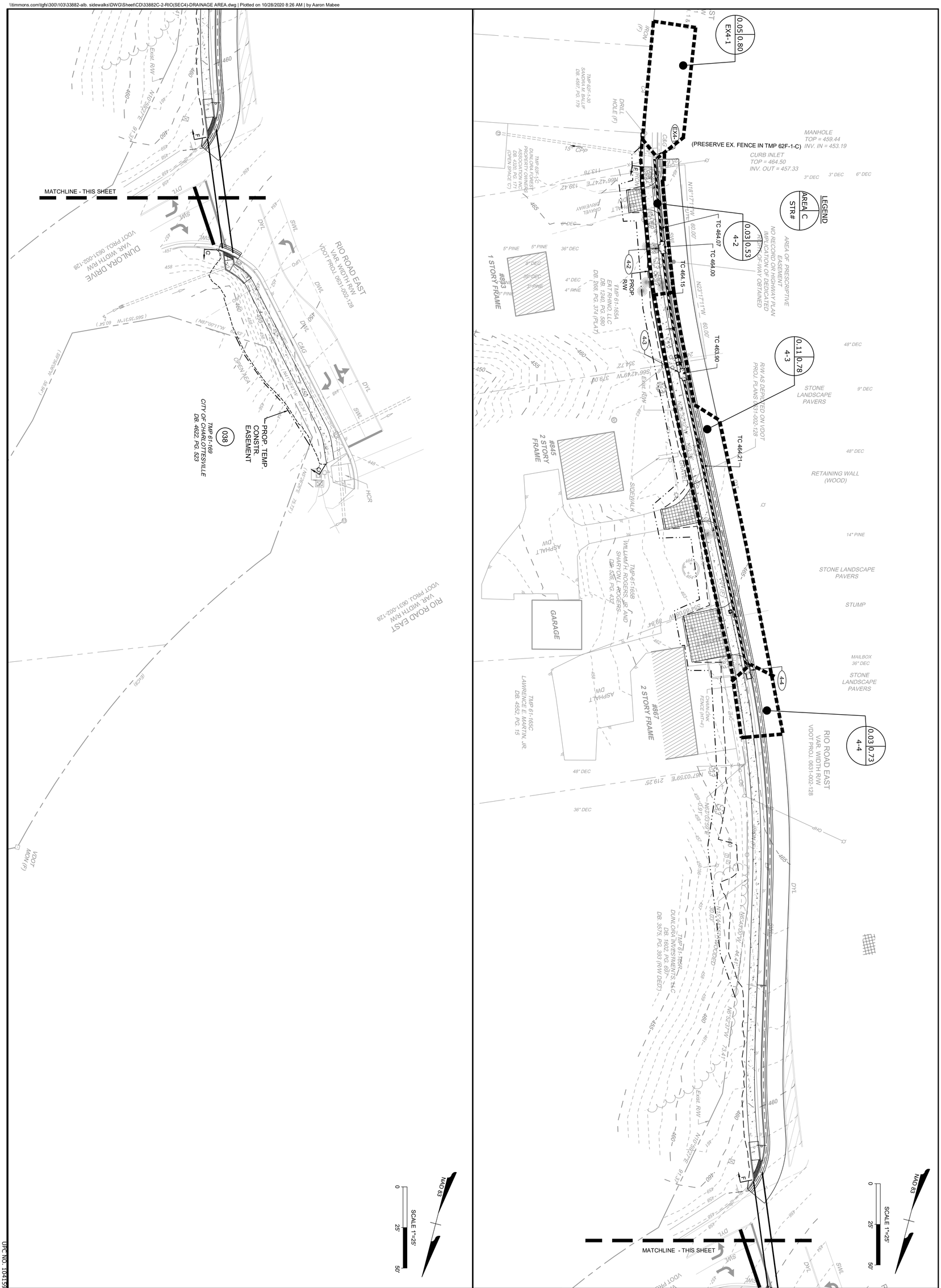
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DESIGNED BY	J. SHOWALTER
DRAWN BY	J. SHOWALTER
DATE	10/28/2020

DATE	

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JOB NO.	33882.005
SHEET NO.	21(2)

ALBEMARLE COUNTY SIDEWALKS

COUNTY OF ALBEMARLE, VIRGINIA

RIO ROAD SECTION 2 DRAINAGE AREA

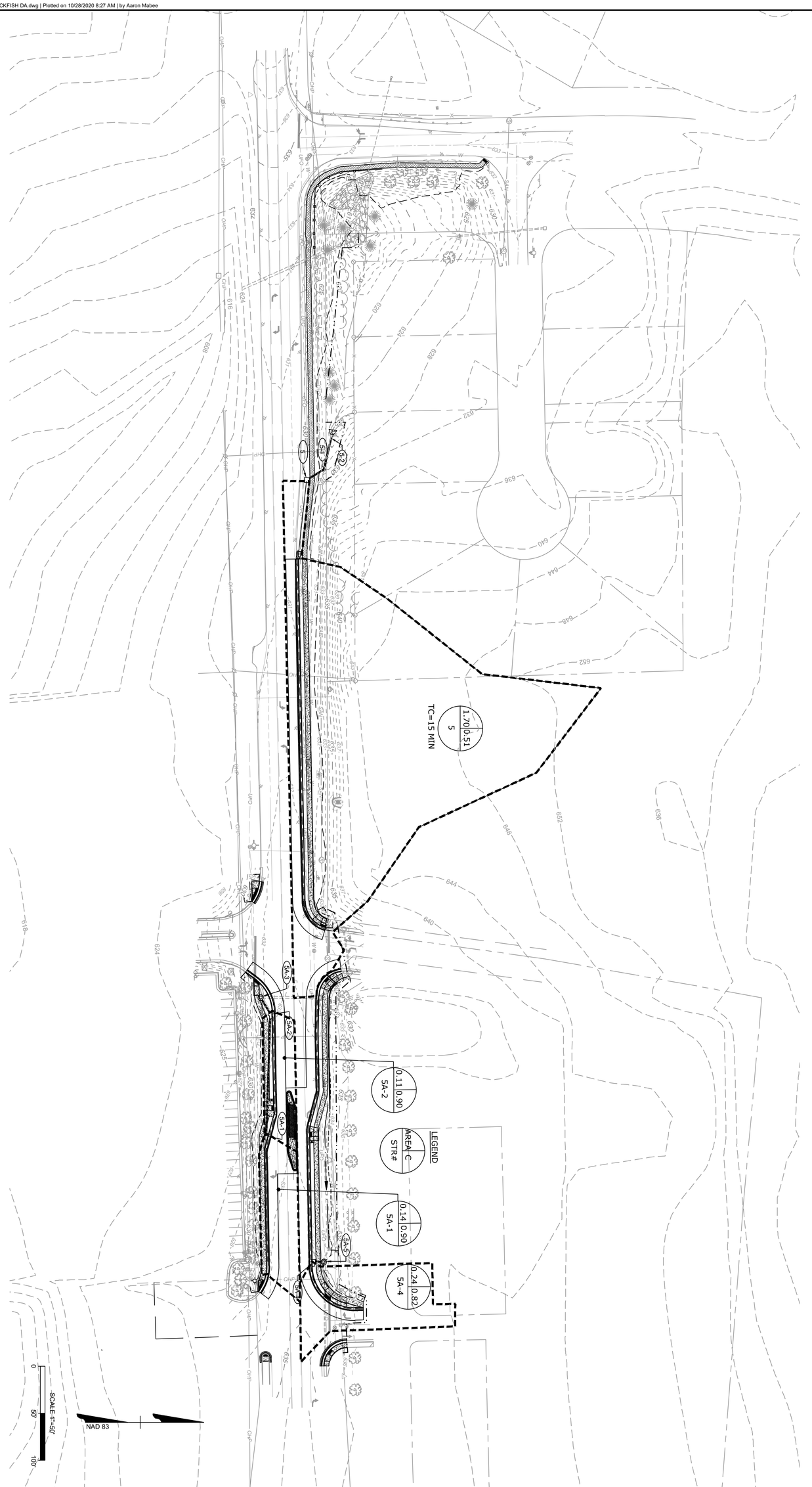
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ALBEMARLE COUNTY SIDEWALKS

COUNTY OF ALBEMARLE, VIRGINIA

ROCKFISH GAP DRAINAGE AREA

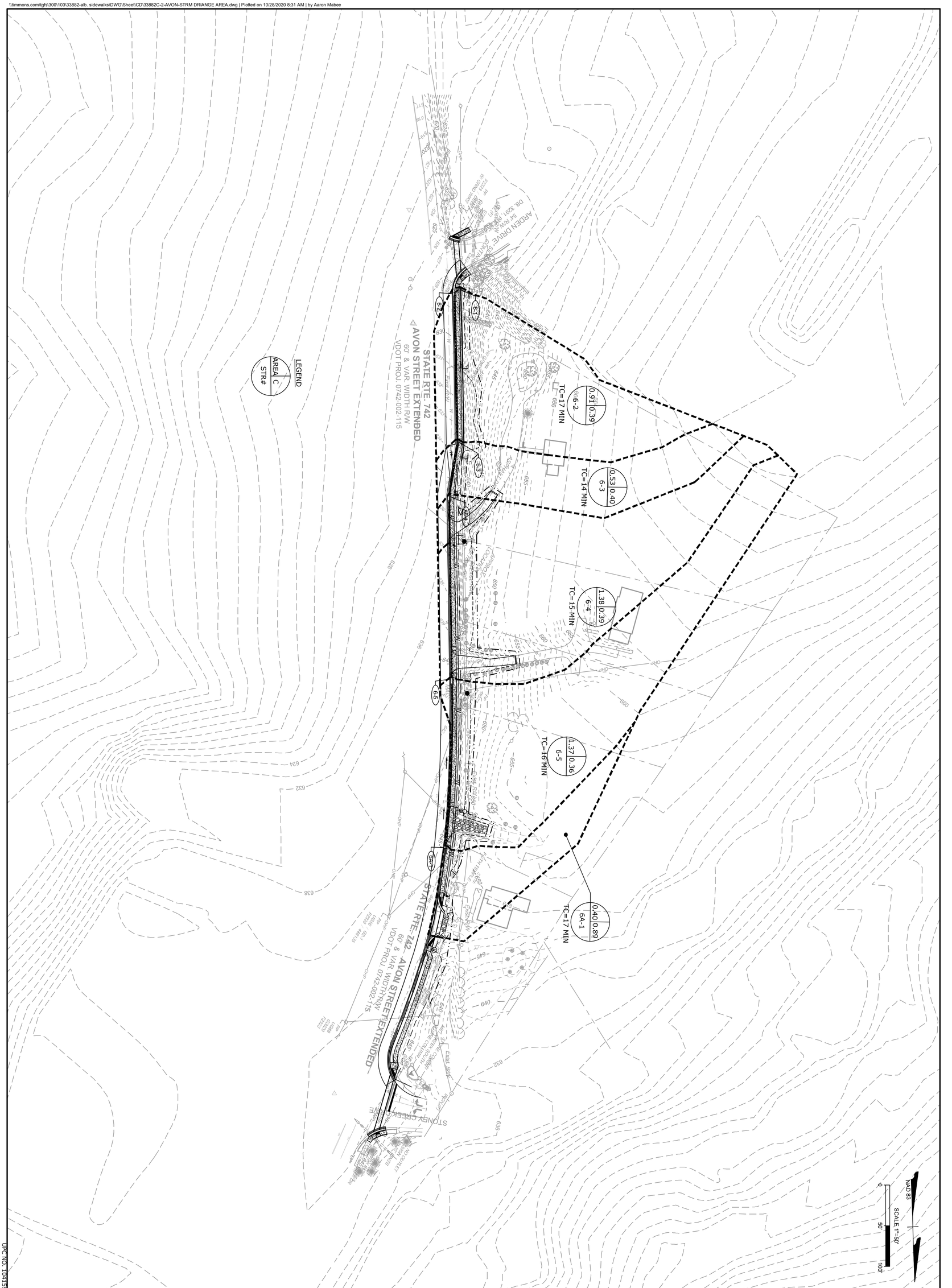
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10/28/2020

ALBEMARLE COUNTY SIDEWALKS

COUNTY OF ALBEMARLE, VIRGINIA

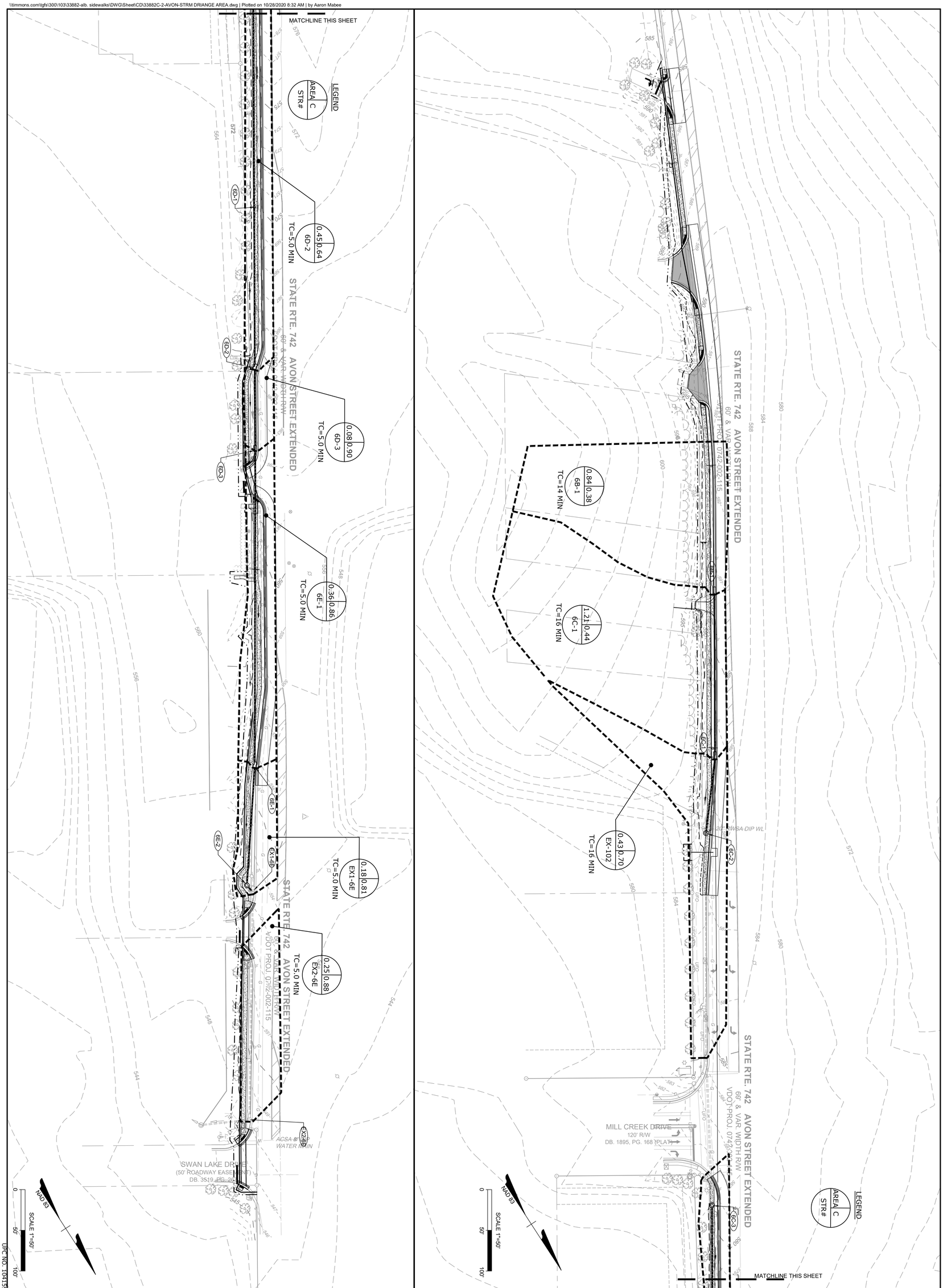
AVON STREET EXTENDED DRAINAGE AREA

JOB NO.	33882.005
SHEET NO.	21(4)
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ALBEMARLE COUNTY SIDEWALKS

COUNTY OF ALBEMARLE, VIRGINIA

AVON STREET EXTENDED DRAINGE AREA

JOB NO.	SHEET NO.	SCALE	CHECKED BY	DESIGNED BY	DRAWN BY	DATE
33882.005	21(5)	1"=50'	J. HASH	J. SHOWALTER	J. SHOWALTER	10/28/2020

DATE	

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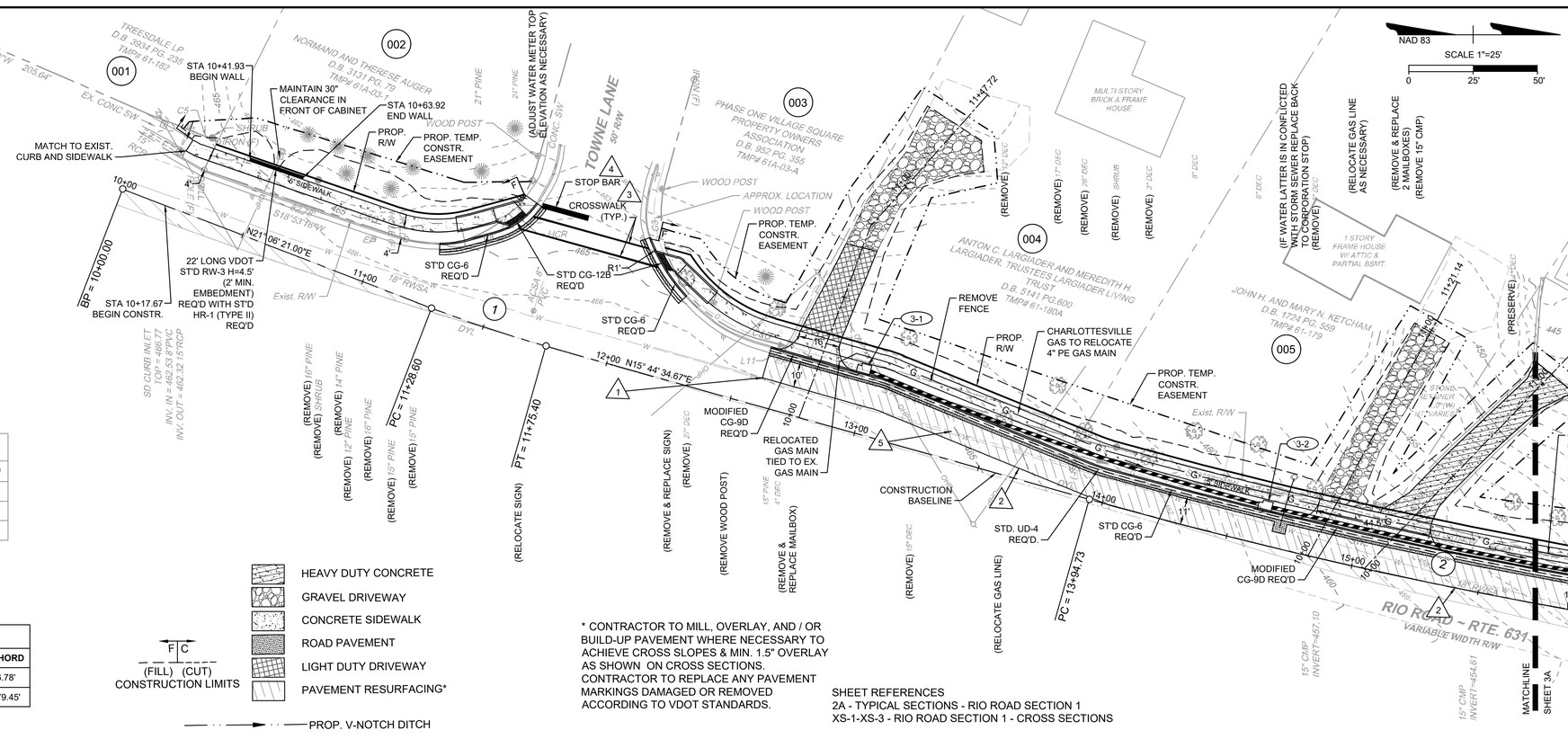
LINE TABLE		
LINE	BEARING	LENGTH
L1	N13°25'25"W	18.23'
L2	N13°25'34"W	11.63'
L3	N6°53'32"W	3.49'
L4	N5°33'52"W	7.94'
L5	N4°27'25"W	9.90'
L6	N3°33'21"W	12.17'
L10	S0°56'45"E	11.68'

STRIPING LEGEND

1. 4" SINGLE WHITE LINE
2. 4" DOUBLE SOLID YELLOW LINE
3. 6" SINGLE WHITE LINE (CROSS WALK)
4. 24" SOLID WHITE LINE
5. 4" SINGLE DASHED WHITE LINE
6. PROP. TURN ARROWS

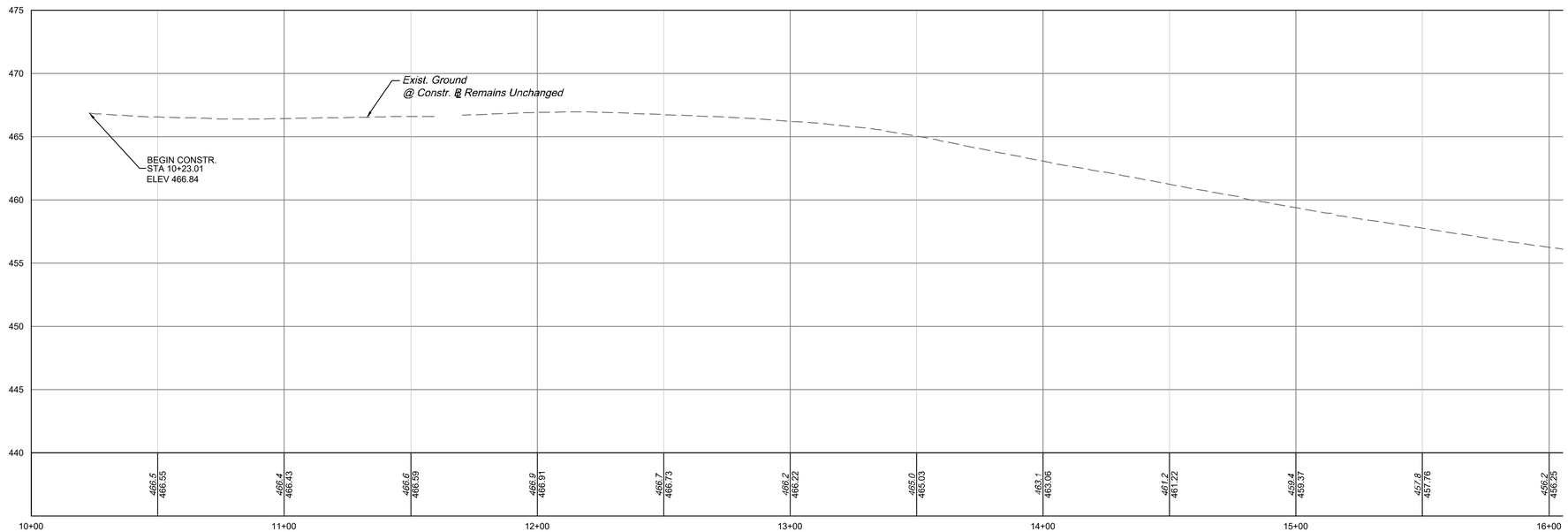
CURVE TABLE						
CURVE	RADIUS	LENGTH	TANGENT	DELTA	CHORD BEARING	CHORD
C1	40.00'	28.37'	14.81'	40°38'18"	N17°29'18"E	27.78'
C3	50.00'	78.86'	50.32'	90°22'01"	S60°24'35"W	70.94'
C4	40.00'	64.26'	41.45'	92°02'44"	S28°24'46"E	57.57'

ROAD CURVE TABLE						
CURVE	RADIUS	LENGTH	TANGENT	DELTA	CHORD BEARING	CHORD
1	500.000'	46.800'	23.42'	5°21'46"	N18°25'28"E	46.78'
2	1950.000'	279.686'	140.08'	8°13'04"	N11°38'03"E	279.45'



* CONTRACTOR TO MILL, OVERLAY, AND / OR BUILD-UP PAVEMENT WHERE NECESSARY TO ACHIEVE CROSS SLOPES & MIN. 1.5" OVERLAY AS SHOWN ON CROSS SECTIONS. CONTRACTOR TO REPLACE ANY PAVEMENT MARKINGS DAMAGED OR REMOVED ACCORDING TO VDOT STANDARDS.

SHEET REFERENCES
2A - TYPICAL SECTIONS - RIO ROAD SECTION 1
XS-1-XS-3 - RIO ROAD SECTION 1 - CROSS SECTIONS



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Jonathan Showalter
JONATHAN M. SHOWALTER
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10/28/2020
DRAWN BY
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DESIGNED BY
J. SHOWALTER
CHECKED BY
J. HASH
SCALE
1" = 25'

TIMMONS GROUP

ALBEMARLE COUNTY SIDEWALKS
COUNTY OF ALBEMARLE, VIRGINIA
RIO ROAD SECTION 1 SITE PLAN

JOB NO.
33882.005
SHEET NO.
3

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R/W PLANS

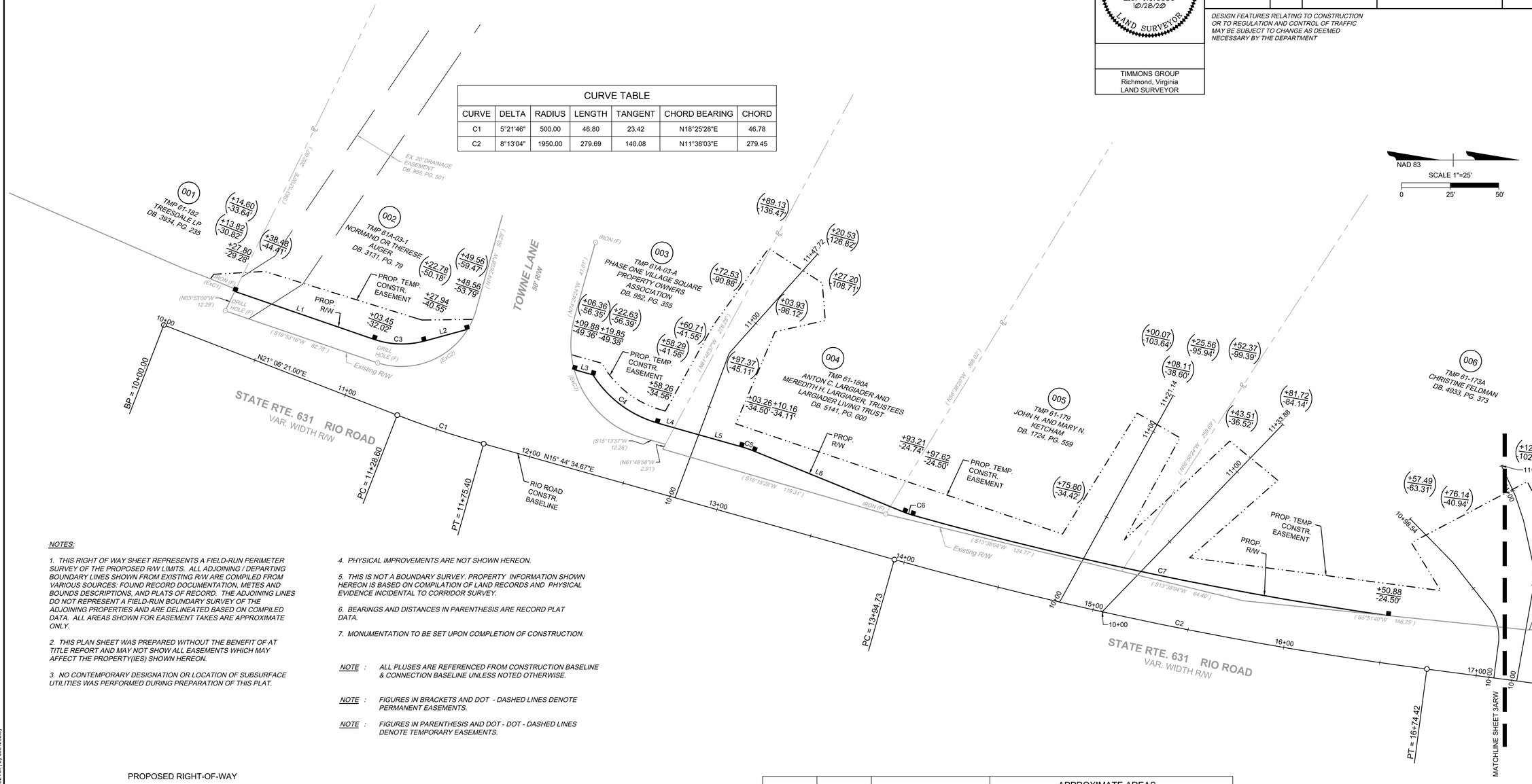
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	VA.	(STATE)631	0000-002-R78, R201	3RW

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

COMMONWEALTH OF VIRGINIA
JOSEPH C. MEDLEY
Lic. No. 3385
10/28/20
LAND SURVEYOR

TIMMONS GROUP
Richmond, Virginia
LAND SURVEYOR

CURVE TABLE						
CURVE	DELTA	RADIUS	LENGTH	TANGENT	CHORD BEARING	CHORD
C1	5°21'46"	500.00	46.80	23.42	N18°25'28"E	46.78
C2	8°13'04"	1950.00	279.69	140.08	N11°38'03"E	279.45



NOTES:

1. *THIS RIGHT OF WAY SHEET REPRESENTS A FIELD-RUN PERIMETER SURVEY OF THE PROPOSED R/W LIMITS. ALL ADJOINING / DEPARTING BOUNDARY LINES SHOWN FROM EXISTING R/W ARE COMPILED FROM VARIOUS SOURCES: FOUND RECORD DOCUMENTATION, METES AND BOUNDS DESCRIPTIONS, AND PLATS OF RECORD. THE ADJOINING LINES DO NOT REPRESENT A FIELD-RUN BOUNDARY SURVEY OF THE ADJOINING PROPERTIES AND ARE DELINEATED BASED ON COMPILED DATA. ALL AREAS SHOWN FOR EASEMENT TAKES ARE APPROXIMATE ONLY.*
2. *THIS PLAN SHEET WAS PREPARED WITHOUT THE BENEFIT OF AT TITLE REPORT AND MAY NOT SHOW ALL EASEMENTS WHICH MAY AFFECT THE PROPERTY(IES) SHOWN HEREON.*
3. *NO CONTEMPORARY DESIGNATION OR LOCATION OF SUBSURFACE UTILITIES WAS PERFORMED DURING PREPARATION OF THIS PLAT.*
4. *PHYSICAL IMPROVEMENTS ARE NOT SHOWN HEREON.*
5. *THIS IS NOT A BOUNDARY SURVEY. PROPERTY INFORMATION SHOWN HEREON IS BASED ON COMPILATION OF LAND RECORDS AND PHYSICAL EVIDENCE INCIDENTAL TO CORRIDOR SURVEY.*
6. *BEARINGS AND DISTANCES IN PARENTHESIS ARE RECORD PLAT DATA.*
7. *MONUMENTATION TO BE SET UPON COMPLETION OF CONSTRUCTION.*

NOTE : ALL PLUSES ARE REFERENCED FROM CONSTRUCTION BASELINE & CONNECTION BASELINE UNLESS NOTED OTHERWISE.

NOTE : FIGURES IN BRACKETS AND DOT - DASHED LINES DENOTE PERMANENT EASEMENTS.

NOTE : FIGURES IN PARENTHESIS AND DOT - DOT - DASHED LINES DENOTE TEMPORARY EASEMENTS.

PROPOSED RIGHT-OF-WAY

LINE TABLE		
LINE	LENGTH	BEARING
L1	75.70	N19°01'41"E
L2	22.94	N15°14'45"W
L3	9.97	N15°35'36"E
L4	14.84	N15°58'31"E
L5	30.16	N15°44'26"E
L6	83.58	N22°10'48"E

CURVE TABLE						
CURVE	DELTA	RADIUS	LENGTH	TANGENT	CHORD BEARING	CHORD
C3	34°16'26"	44.00	26.32	13.57	N1°53'28"E	25.93
C4	41°39'30"	57.89	42.09	22.02	N36°50'50"E	41.17
C5	6°26'22"	61.50	6.91	3.46	N18°57'37"E	6.91
C6	6°31'19"	38.50	4.38	2.19	N18°55'09"E	4.38
C7	7°26'29"	1925.50	250.08	125.22	N11°56'15"E	249.90

EXISTING RIGHT OF WAY / BOUNDARY

CURVE TABLE						
CURVE	***RADIUS***	***LENGTH***	***TANGENT***	***DELTA***	***CHORD BEARING***	***CHORD***
(ExC1)	*465.00'*	*28.21'*	*14.11'*	*3°28'35"*	*S21°42'05"W*	*28.21'*
(ExC2)	*40.00'*	*64.26'*	*41.45'*	*92°02'44"*	*S28°24'46"E*	*57.57'*
(ExC3)	*50.00'*	*78.86'*	*50.32'*	*90°22'01"*	*S60°24'35"W*	*70.94'*

PARCEL NO.	TAX MAP NO.	LANDOWNER	APPROXIMATE AREAS		
			R/W TAKE	EASEMENTS	
				PERMANENT	TEMPORARY
				-	CONSTR.
			SQ. FT	SQ. FT.	SQ. FT.
001	61-182	TREESDALE LP	0	0	85
002	61A-03-1	NORMAND OR THERESE AUGER	1328	0	1682
003	61A-03-A	PHASE ONE VILLAGE SQUARE PROPERTY OWNERS ASSOC.	559	0	1023
004	61-180A	ANTON C. LARGIADER AND MEREDITH H. LARGIADER, TRUSTEES LARGIADER LIVING TRUST	1162	0	3964
005	61-179	JOHN H. AND MARY N. KETCHAM	249	0	3528
006	61-173A	CHRISTINE FELDMAN	349	0	8351

SYMBOL LEGEND

- ■ *Prop. Right of Way Monument (St'd RM-2)*
- +00.00 / 00.00' *Proposed Right of Way*
- (+00.00 / 00.00') *Prop. Temporary (Constr.) Esmt.*

UPC NO. 104159

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YOUR VISION ACHIEVED THROUGH OURS.

TIMMONS GROUP

ALBEMARLE COUNTY SIDEWALKS
COUNTY OF ALBEMARLE, VIRGINIA
RIO ROAD SITE PLAN

REVISION DESCRIPTION	DATE
	10/28/20 -

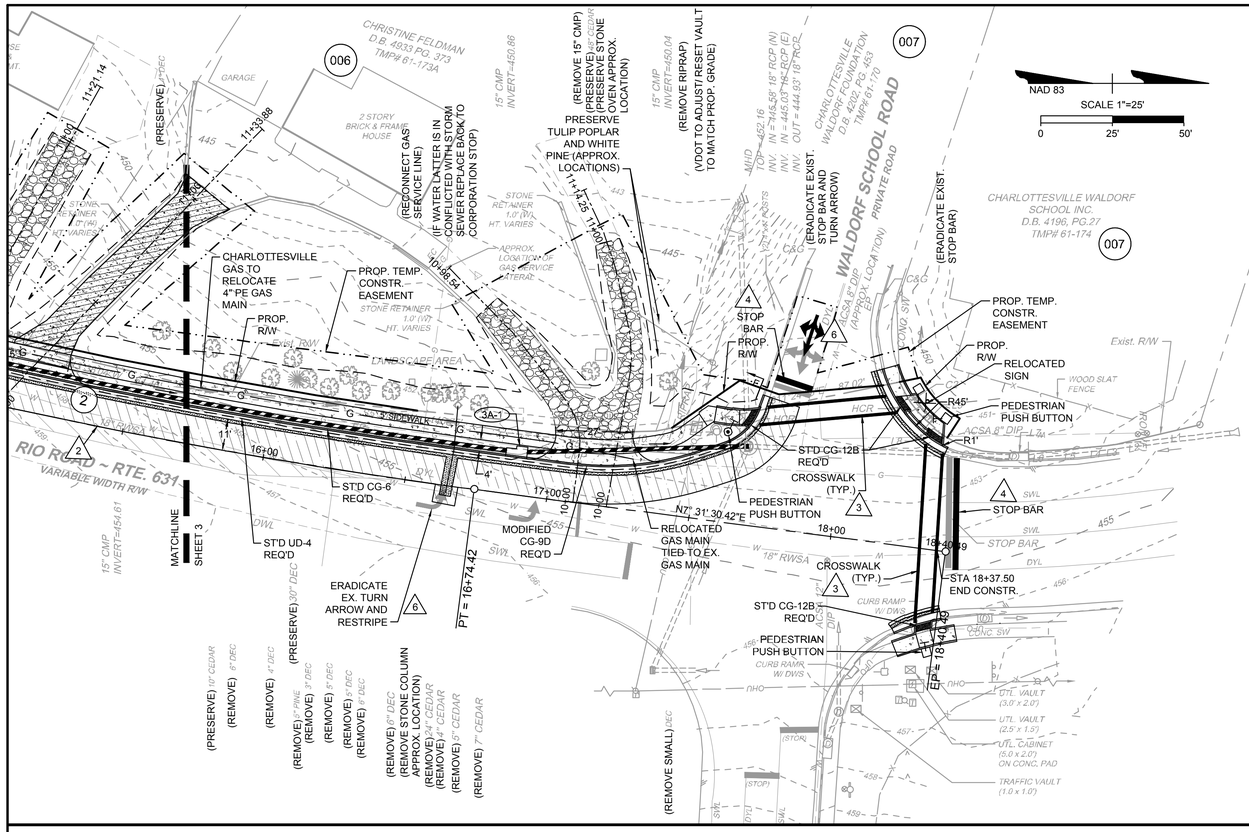
DRAWN BY: J. MEDLEY
DESIGNED BY: -
CHECKED BY: -
SCALE: 1" = 25'

JOB NO. 33882.005
SHEET NO. 3RW

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Y:\80433882.005-Albemarle_RCW\DWG\ROW_pan_Rcvr104159_RIO1_rw.dwg | Plotted on 10/28/2020 10:52 AM | by Joe Medley

IFB 2021-12012-35



SHEET REFERENCES
2A - TYPICAL SECTIONS - RIO ROAD SECTION 1
XS-1-XS-3 - RIO ROAD SECTION 1 - CROSS SECTIONS

STRIPING LEGEND

1. 4" SINGLE WHITE LINE
2. 4" DOUBLE SOLID YELLOW LINE
3. 6" SINGLE WHITE LINE (CROSS WALK)
4. 24" SOLID WHITE LINE
5. 4" SINGLE DASHED WHITE LINE
6. PROP. TURN ARROWS

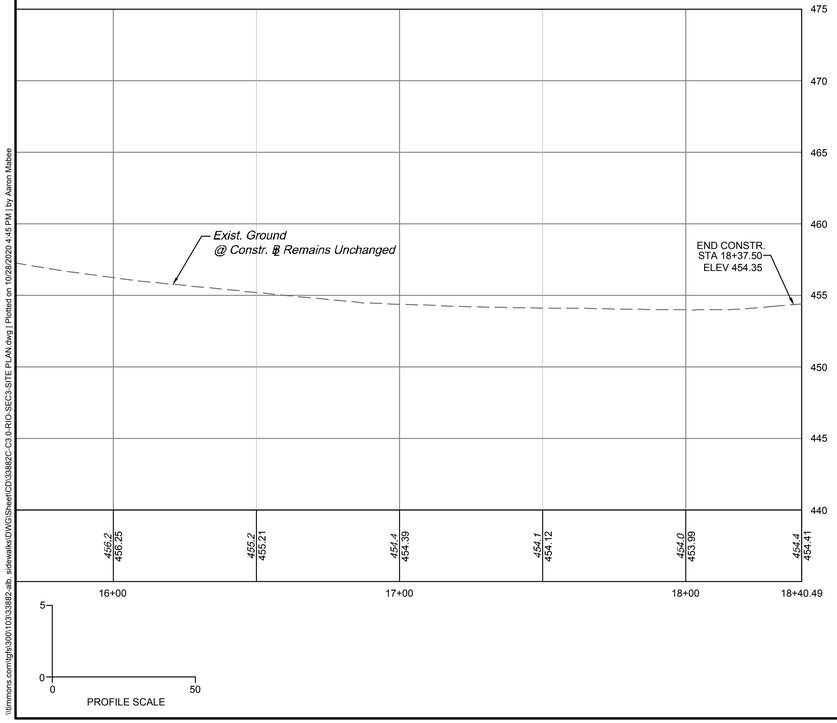
* CONTRACTOR TO MILL, OVERLAY, AND / OR BUILD-UP PAVEMENT WHERE NECESSARY TO ACHIEVE CROSS SLOPES & MIN. 1.5" OVERLAY AS SHOWN ON CROSS SECTIONS. CONTRACTOR TO REPLACE ANY PAVEMENT MARKINGS DAMAGED OR REMOVED ACCORDING TO VDOT STANDARDS.

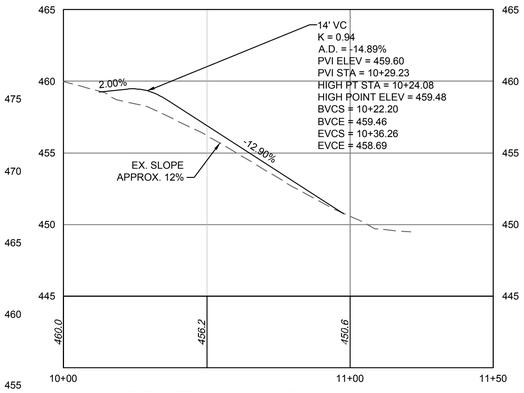
CURVE TABLE

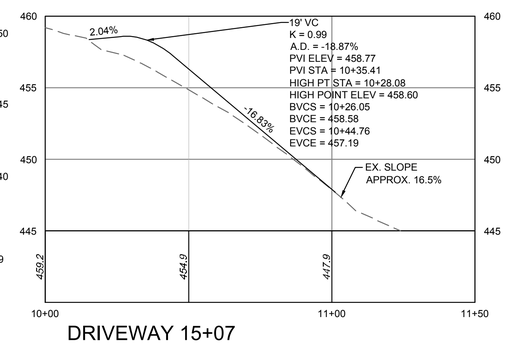
CURVE	RADIUS	LENGTH	TANGENT	DELTA	CHORD BEARING	CHORD
C1	40.00'	28.37'	14.81'	40°38'18"	N17°29'18"E	27.78'
C3	50.00'	78.86'	50.32'	90°22'01"	S60°24'35"W	70.94'
C4	40.00'	64.26'	41.45'	92°02'44"	S28°24'46"E	57.57'

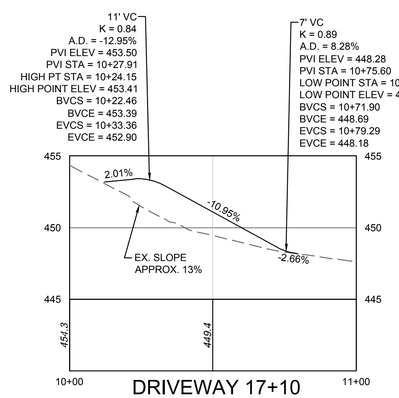
LINE TABLE

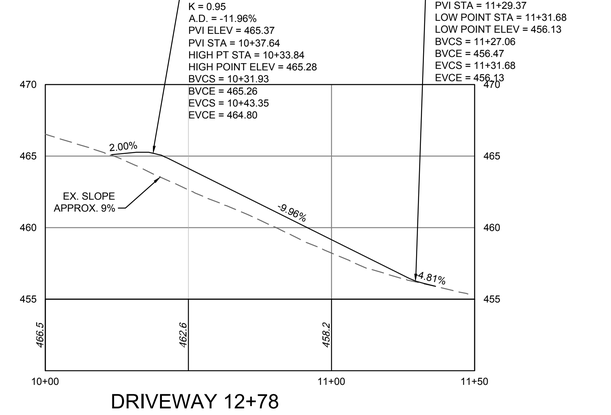
LINE	BEARING	LENGTH
L1	N13°25'25"W	18.23'
L2	N13°25'34"W	11.63'
L3	N6°53'32"W	3.49'
L4	N5°33'52"W	7.94'
L5	N4°27'25"W	9.90'
L6	N3°33'21"W	12.17'
L10	S0°56'45"E	11.68'

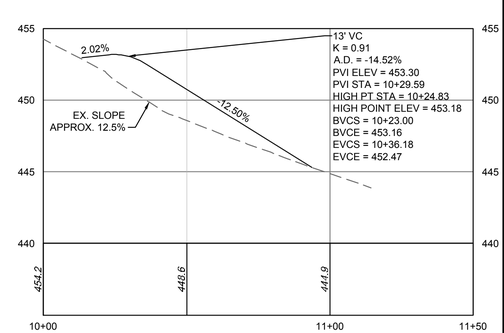












UPC NO. 104159

IFB 2021-12012-35

COMMONWEALTH OF VIRGINIA
JONATHAN M. SHOWALTER
Lic. No. 0402057151
10/28/2020
PROFESSIONAL ENGINEER

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DATE
10/28/2020
DRAWN BY
J. SHOWALTER
DESIGNED BY
J. SHOWALTER
CHECKED BY
J. HASH
SCALE
1" = 25'

TIMMONS GROUP

ALBEMARLE COUNTY SIDEWALKS
COUNTY OF ALBEMARLE, VIRGINIA
RIO ROAD SECTION 1 SITE PLAN

JOB NO.
33882.005
SHEET NO.
3A

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\\timmons.com\tgfs\500\103\33882.sb_sitewalks\DWG\Sheet\CD\33882C-C3-3-RIO-SEC3-SITE PLAN.dwg | Plotted on 10/28/2020 4:45 PM | by Aaron Mabee

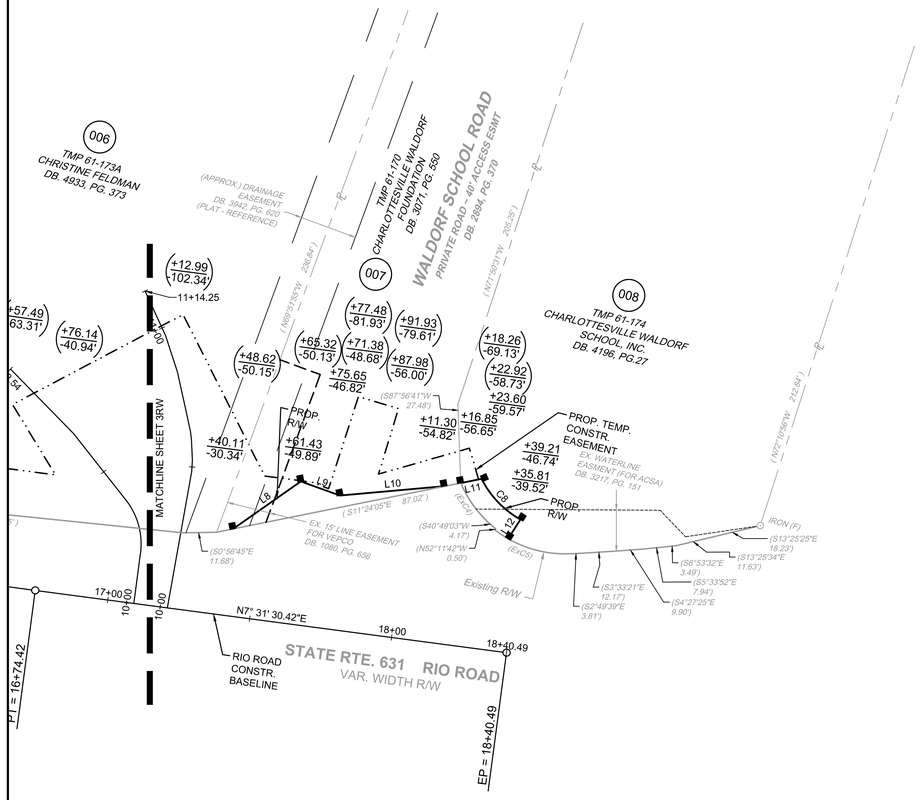
R/W PLANS

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
04/24/18	VA.	(STATE)631	0000-002-R78, R201	3ARW

COMMONWEALTH OF VIRGINIA
JOSEPH C. MEDLEY
Lic. No. 3385
10/28/20
LAND SURVEYOR

TIMMONS GROUP
Richmond, Virginia
LAND SURVEYOR

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



NAD 83
SCALE 1"=25'
0 25' 50'

NOTES:

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NOTE : FIGURES IN BRACKETS AND DOT - DASHED LINES DENOTE PERMANENT EASEMENTS.

NOTE : FIGURES IN PARENTHESIS AND DOT - DOT - DASHED LINES DENOTE TEMPORARY EASEMENTS.

PROPOSED RIGHT-OF-WAY

LINE TABLE		
LINE	LENGTH	BEARING
L8	28.92	N34°59'59"W
L9	14.55	N19°41'24"E
L10	36.54	N5°06'39"W
L11	7.46	S11°24'05"E
L12	7.98	N57°16'00"W

CURVE TABLE						
CURVE	DELTA	RADIUS	LENGTH	TANGENT	CHORD BEARING	CHORD
C8	34°07'20"	33.50	19.95	10.28	S46°22'19"W	19.66

EXISTING RIGHT OF WAY / BOUNDARY

CURVE TABLE						
CURVE	*RADIUS*	*LENGTH*	*TANGENT*	*DELTA*	*CHORD BEARING*	*CHORD*
(ExC4)	*39.36'*	*16.19'*	*8.21'*	*23°34'24"*	*S55°43'36"W*	*16.08'*
(ExC5)	*40.00'*	*28.37'*	*14.81'*	*40°38'18"*	*S17°29'18"W*	*27.78'*

PARCEL NO.	TAX MAP NO.	LANDOWNER	APPROXIMATE AREAS		
			R/W TAKE	EASEMENTS PERMANENT	EASEMENTS TEMPORARY
				-	CONSTR.
			SQ. FT	SQ. FT.	SQ. FT.
006	61-173A	CHRISTINE FELDMAN	349	0	8351
007	61-170	CHARLOTTESVILLE WALDORF FOUNDATION	324	0	1092
008	61-174	CHARLOTTESVILLE WALDORF SCHOOL, INC.	172	0	55

SYMBOL LEGEND

■ *Prop. Right of Way Monument (St'd RM-2)*

+00.00 / 00.00' *Proposed Right of Way*

(+00.00 / 00.00') *Prop. Temporary (Constr.) Esmt.*

UPC NO. 104159

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TIMMONS GROUP

ALBEMARLE COUNTY SIDEWALKS
COUNTY OF ALBEMARLE, VIRGINIA
RIO ROAD SITE PLAN

REVISION DESCRIPTION

DATE

DATE 10/28/20 -

DRAWN BY J. MEDLEY

DESIGNED BY -

CHECKED BY -

SCALE 1" = 25'

JOB NO. 33882.005

SHEET NO. 3ARW

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Y:\90433882.005-Albemarle_ RDWY\DWG\ROW_plan_Rio\104159_RIO1_rw.dwg | Plotted on 10/28/2020, 10:55 AM | by Joe Medley

IFB 2021-12012-35

* CONTRACTOR TO MILL, OVERLAY, AND / OR BUILD-UP PAVEMENT WHERE NECESSARY TO ACHIEVE CROSS SLOPES & MIN. 1.5" OVERLAY AS SHOWN ON CROSS SECTIONS. CONTRACTOR TO REPLACE ANY PAVEMENT MARKINGS DAMAGED OR REMOVED ACCORDING TO VDOT STANDARDS.

ROAD CURVE TABLE

CURVE	RADIUS	LENGTH	TANGENT	DELTA	CHORD BEARING	CHORD
1	599.700'	138.270'	69.44'	13°12'38"	N20°12'46"W	137.96'
2	600.300'	150.371'	75.58'	14°21'08"	N19°38'31"W	149.98'

SHEET REFERENCES
2B - TYPICAL SECTIONS - RIO ROAD SECTION 2
XS-4-XS-5 - RIO ROAD SECTION 2 - CROSS SECTIONS

PROP. V-NOTCH DITCH

GRAVEL DRIVEWAY
CONCRETE SIDEWALK
ROAD PAVEMENT
PAVEMENT RESURFACING*
LIGHT DUTY DRIVEWAY

(FILL) (CUT)
CONSTRUCTION LIMITS

RIO ROAD EAST
VAR. WIDTH R/W
VDOT PROJ. 0631-002-128

BP = 10+00.00
(PRESERVE EX. FENCE IN TMP 62F-1-C)
STA 10+00
BEGIN CMSTR.
PT = 11+38.27
PC = 13+21.70
PT = 14+72.07
PC = 15+70.62
R/W AS DEPICTED ON VDOT PROJ. PLANS 0631-002-128
AREA OF PRESCRIPTIVE EASEMENT NO RECORD OR HIGHWAY PLAN IMPLICATION OF DEDICATED RIGHT-OF-WAY OBTAINED
REPLACE STORM STRUCTURE
CONSTRUCTION BASE LINE
RELOCATE MAILBOXES
RELOCATE SIGN
MODIFIED CG-9D REQ'D
STD. UD-4 REQ'D
STD'D CG-6 REQ'D
STD'D CG-12B REQ'D
STD'D CG-12C REQ'D
CROSSWALK (TYP.)
TIE TO EXISTING CURB & GUTTER
EXIST. ASPHALT BEHIND PROP. FRONT OF CURB TO BE REMOVED BETWEEN STA 13+21 AND STA 16+40
5' SIDEWALK
PROP. TEMP. CONSTR. EASEMENT
FILL-SLOPE AT 2:1 IN THIS SECTION TO AVOID TELECOM CABINETS.
RELOCATED SIGN
(ERADICATE EXIST. PAVEMENT MARKING IN FRONT OF PROP. STOP BAR)
MATCHLINE - SHEET 4A
PERPETUAL STREET EASEMENT
PROP. R/W
RELOCATE MAILBOX
(RELOCATED TWO WATER METERS BETWEEN STORM LINE AND SIDEWALK. RECONNECT TO EX. SERVICE LINES TIE TO LINE FROM MAIN WITH TEE OUTSIDE OF ROADWAY. CRIMPING CONNECTION WILL NOT BE PERMITTED)
(RELOCATE POWER POLE) (DOMINION POWER TO RELOCATE POWER POLE)
(REPLACE METER VAULT WITH ACSA TRAFFIC-RATED METER BOX. TOP TO BE FLUSH WITH SIDEWALK FINISHED GRADE. IF WATER SERVICE IS IN CONFLICTED WITH STORM SEWER REPLACE AND RECONNECT TO EX. SERVICE LINES OUTSIDE OF ROADWAY. CRIMPING CONNECTION WILL NOT BE PERMITTED)
(REMOVE CHAIN-LINK FENCE WITHIN TCE)
(REMOVE LIGHT POLE)
(REMOVE & RELOCATE) MAILBOX
(RELOCATE) MAILBOX
(REMOVE) STONE LANDSCAPE PAVERS
(REMOVE) SIGN
(REMOVE) (REMOVE) 6" DEC
(REMOVE) 9" DEC
(REMOVE) 3" DEC
(REMOVE) 48" DEC
(REMOVE) 3" DEC
RETAINING WALL (WOOD)
STONE LANDSCAPE PAVERS
MANHOLE TOP = 468.44 INV. IN = 463.19
CURB INLET TOP = 464.50 INV. OUT = 457.33
TMP 62F-1-30 SANDRA M. BALLIF DB. 4587, PG. 179
TMP 62F-1-C DUNLORA FOREST PROPERTY OWNERS ASSOCIATION INC. DB. 4320, PG. 171 (OPEN SPACE 'C')
TMP 61-165A EAT RHINO, LLC DB. 1240, PG. 590 DB. B68, PG. 374 (PLAT)
TMP 61-165B WILLIAM H. ROGERS, JR. AND SHARYON L. ROGERS DB. 526, PG. 432
TMP 61-165C LAWRENCE E. MARTIN, JR. DB. 4552, PG. 15
TMP 61-165R DUNLORA INVESTMENTS, LLC DB. 1802, PG. 697 DB. 3575, PG. 393 (R/W DED.)
#867 2 STORY FRAME
#845 2 STORY FRAME
#833 1 STORY FRAME
CHAIN-LINK FENCE (HT-4')
SIDEWALK
ASPHALT DW
GRAVEL
Exist. R/W
Prop. R/W
IRON (F)
DRILL HOLE (F)
15" CPP
009
010
011
012
013

STRIPING LEGEND

1. 4" SINGLE WHITE LINE
2. 4" DOUBLE SOLID YELLOW LINE
3. 6" SINGLE WHITE LINES (CROSS WALK)
4. 24" SOLID WHITE LINE
5. 4" SINGLE DASHED WHITE LINE
6. PROP. TURN ARROWS

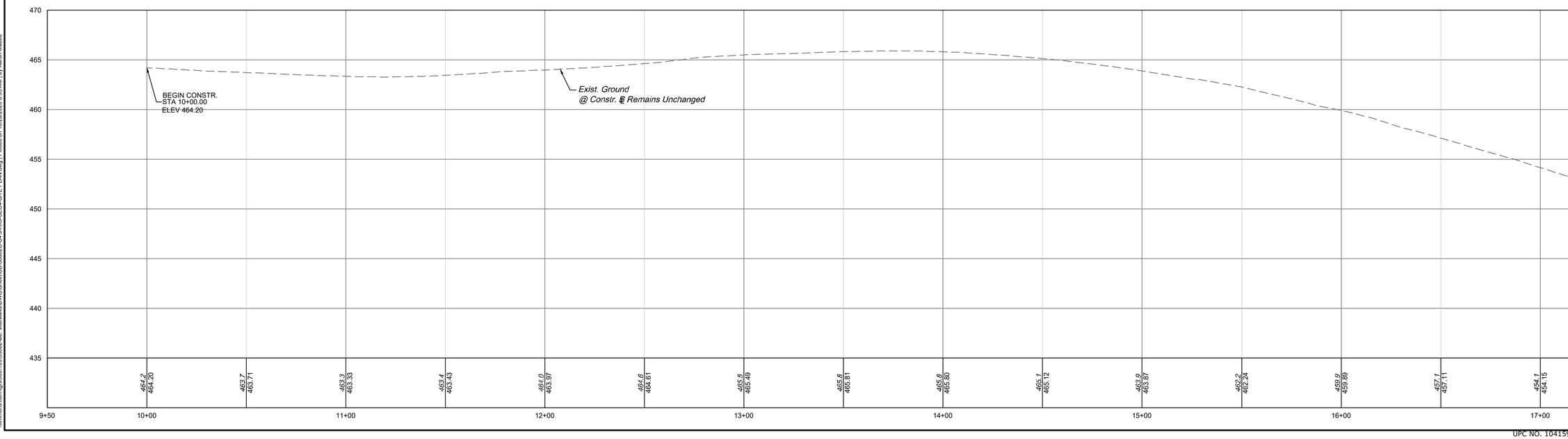
CURVE TABLE

CURVE	RADIUS	LENGTH	TANGENT	DELTA	CHORD BEARING	CHORD
C4	1113.91'	53.51'	26.76'	2°45'08"	N10°32'57"W	53.50'
C5	1113.91'	23.22'	11.61'	1°11'40"	N12°31'21"W	23.22'
C6	465.73'	55.65'	27.86'	6°50'47"	N16°30'01"W	55.62'

NAD 83

SCALE 1"=25'
0 25' 50'

SITE PLAN



UPC NO. 104159

COMMONWEALTH OF VIRGINIA
Jonathan M. Showalter
JONATHAN M. SHOWALTER
Lic. No. 0402057151
10/28/2020
PROFESSIONAL ENGINEER

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YOUR VISION ACHIEVED THROUGH OURS.

DATE
10/28/2020
DRAWN BY
J. SHOWALTER
DESIGNED BY
J. SHOWALTER
CHECKED BY
J. HASH
SCALE
1" = 25'

TIMMONS GROUP

ALBEMARLE COUNTY SIDEWALKS
COUNTY OF ALBEMARLE, VIRGINIA
RIO ROAD SECTION 2 SITE PLAN

JOB NO.
33882.005
SHEET NO.
4

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\\timmons.com\ghi\500\103\33882-alb. sidewalks\DWG\Sheet\CD\33882C-C4.9-RIO-SEC4-SITE PLAN.dwg | Plotted on 10/28/2020 8:35 AM | by Aaron Mabee

NOTES:

1. THIS RIGHT OF WAY SHEET REPRESENTS A FIELD-RUN PERIMETER SURVEY OF THE PROPOSED R/W LIMITS. ALL ADJOINING / DEPARTING BOUNDARY LINES SHOWN FROM EXISTING R/W ARE COMPILED FROM VARIOUS SOURCES: FOUND RECORD DOCUMENTATION, METES AND BOUNDS DESCRIPTIONS, AND PLATS OF RECORD. THE ADJOINING LINES DO NOT REPRESENT A FIELD-RUN BOUNDARY SURVEY OF THE ADJOINING PROPERTIES AND ARE DELINEATED BASED ON COMPILED DATA. ALL AREAS SHOWN FOR EASEMENT TAKES ARE APPROXIMATE ONLY.

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5. THIS IS NOT A BOUNDARY SURVEY. PROPERTY INFORMATION SHOWN HEREON IS BASED ON COMPILATION OF LAND RECORDS AND PHYSICAL EVIDENCE INCIDENTAL TO CORRIDOR SURVEY.

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7. MONUMENTATION TO BE SET UPON COMPLETION OF CONSTRUCTION.

NOTE : ALL PLUSES ARE REFERENCED FROM CONSTRUCTION BASELINE & CONNECTION BASELINE UNLESS NOTED OTHERWISE.

NOTE : FIGURES IN BRACKETS AND DOT - DASHED LINES DENOTE PERMANENT EASEMENTS.

NOTE : FIGURES IN PARENTHESIS AND DOT - DOT - DASHED LINES DENOTE TEMPORARY EASEMENTS.

NAD 83

SCALE 1"=25'

0 25' 50'

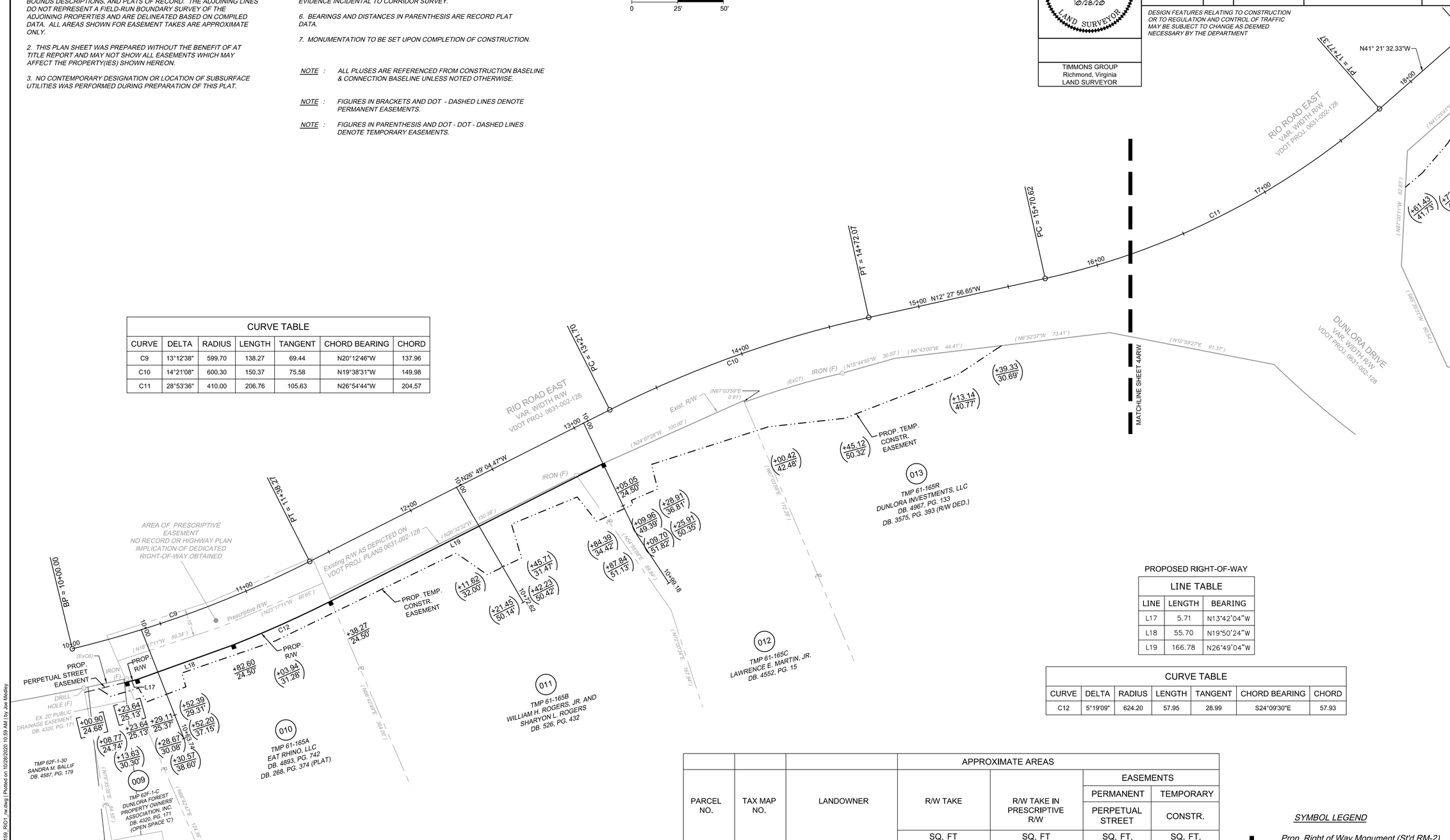
R/W PLANS

COMMONWEALTH OF VIRGINIA
JOSEPH C. MEDLEY
Lic. No. 3385
10/28/20
LAND SURVEYOR

TIMMONS GROUP
Richmond, Virginia
LAND SURVEYOR

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.	(STATE)631	0000-002-R78, R201	4RW

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



CURVE TABLE						
CURVE	DELTA	RADIUS	LENGTH	TANGENT	CHORD BEARING	CHORD
C9	13°12'38"	599.70	138.27	69.44	N20°12'46"W	137.96
C10	14°21'08"	600.30	150.37	75.58	N19°38'31"W	149.98
C11	28°53'36"	410.00	206.76	105.63	N26°54'44"W	204.57

EXISTING RIGHT OF WAY / BOUNDARY

CURVE TABLE						
CURVE	*RADIUS*	*LENGTH*	*TANGENT*	*DELTA*	*CHORD BEARING*	*CHORD*
(ExC6)	*1113.91'*	*23.22'*	*11.61'*	*1°11'40"*	*N12°31'21"W*	*23.22'*
(ExC7)	*465.73'*	*55.65'*	*27.86'*	*6°50'47"*	*N16°30'01"W*	*55.62'*

PROPOSED RIGHT-OF-WAY

LINE TABLE		
LINE	LENGTH	BEARING
L17	5.71	N13°42'04"W
L18	55.70	N19°50'24"W
L19	166.78	N26°49'04"W

CURVE TABLE						
CURVE	DELTA	RADIUS	LENGTH	TANGENT	CHORD BEARING	CHORD
C12	5°19'09"	624.20	57.95	28.99	S24°09'30"E	57.93

			APPROXIMATE AREAS			
					EASEMENTS	
PARCEL NO.	TAX MAP NO.	LANDOWNER	R/W TAKE	R/W TAKE IN PRESCRIPTIVE R/W	PERMANENT PERPETUAL STREET	TEMPORARY CONSTR.
			SQ. FT	SQ. FT	SQ. FT.	SQ. FT.
009	62F-1-C	DUNLORA FOREST PROPERTY OWNERS ASSOCIATION, INC.	0	0	51	70
010	61-165A	EAT RHINO, LLC	1436	1800	0	870
011	61-165B	WILLIAM H. ROGERS, JR. AND SHARYON L. ROGERS	166	0	0	1744
012	61-165C	LAWRENCE E. MARTIN, JR.	6	0	0	1817
013	61-165R	DUNLORA INVESTMENTS, LLC	0	0	0	2480

SYMBOL LEGEND

- ■ *Prop. Right of Way Monument (St'd RM-2)*
- +00.00 / 00.00' *Proposed Right of Way*
- (+00.00 / 00.00') *Prop. Temporary (Constr.) Esmt.*
- [+00.00 / 00.00'] *Prop. Perpetual Street Esmt.*

UPC NO. 104159

IFB 2021-12012-35

Y:\36\43\3882.005-Albemarle_ RCW\DWG\ROW_plan_Rio\104159_RIO1_rw.dwg | Plotted on 10/28/2020 10:59 AM | by Joe Medley

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REVISION DESCRIPTION

DATE

DATE 10/28/20

DRAWN BY J. MEDLEY

DESIGNED BY -

CHECKED BY -

SCALE 1" = 25'

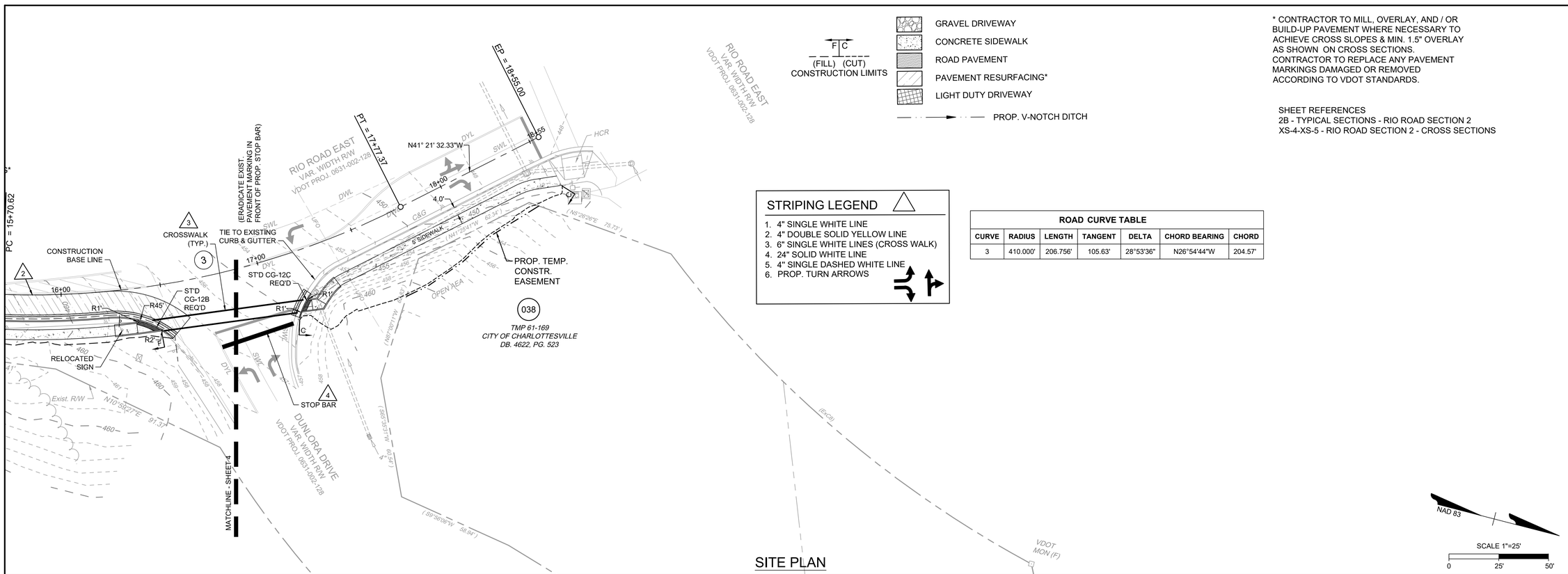
JOB NO. 33882.005

SHEET NO. 4RW

TIMMONS GROUP

ALBEMARLE COUNTY SIDEWALKS
COUNTY OF ALBEMARLE, VIRGINIA
RIO ROAD SITE PLAN

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SITE PLAN

F C
(FILL) (CUT)
CONSTRUCTION LIMITS

- GRAVEL DRIVEWAY
- CONCRETE SIDEWALK
- ROAD PAVEMENT
- PAVEMENT RESURFACING*
- LIGHT DUTY DRIVEWAY
- PROP. V-NOTCH DITCH

* CONTRACTOR TO MILL, OVERLAY, AND / OR BUILD-UP PAVEMENT WHERE NECESSARY TO ACHIEVE CROSS SLOPES & MIN. 1.5" OVERLAY AS SHOWN ON CROSS SECTIONS. CONTRACTOR TO REPLACE ANY PAVEMENT MARKINGS DAMAGED OR REMOVED ACCORDING TO VDOT STANDARDS.

SHEET REFERENCES
2B - TYPICAL SECTIONS - RIO ROAD SECTION 2
XS-4-XS-5 - RIO ROAD SECTION 2 - CROSS SECTIONS

STRIPING LEGEND

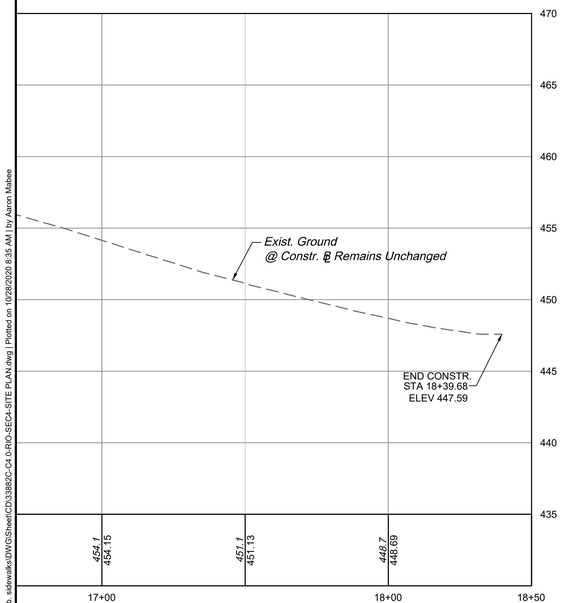
1. 4" SINGLE WHITE LINE
2. 4" DOUBLE SOLID YELLOW LINE
3. 6" SINGLE WHITE LINES (CROSS WALK)
4. 24" SOLID WHITE LINE
5. 4" SINGLE DASHED WHITE LINE
6. PROP. TURN ARROWS

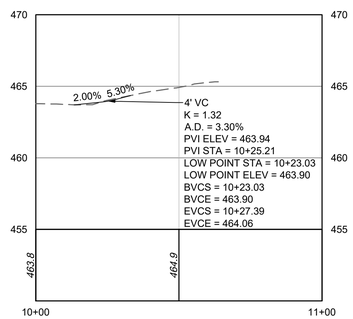
ROAD CURVE TABLE

CURVE	RADIUS	LENGTH	TANGENT	DELTA	CHORD BEARING	CHORD
3	410.000'	206.756'	105.63'	28°53'36"	N26°54'44"W	204.57'

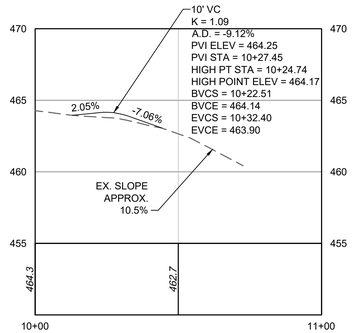
NAD 83

SCALE 1"=25'
0 25' 50'

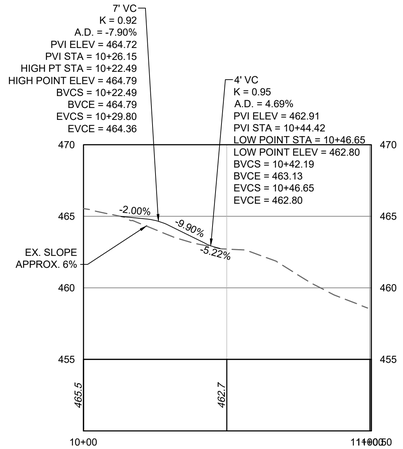




DRIVEWAY 10+39



DRIVEWAY 12+28



DRIVEWAY 13+06

COMMONWEALTH OF VIRGINIA
JONATHAN M. SHOWALTER
Lic. No. 0402057151
10/28/2020
PROFESSIONAL ENGINEER

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DATE
10/28/2020
DRAWN BY: J. SHOWALTER
DESIGNED BY: J. SHOWALTER
CHECKED BY: J. HASH
SCALE: 1" = 25'

TIMMONS GROUP

ALBEMARLE COUNTY SIDEWALKS
COUNTY OF ALBEMARLE, VIRGINIA
RIO ROAD SECTION 2 SITE PLAN

JOB NO. 33882.005
SHEET NO. 4A

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UPC NO. 104159

IFB 2021-12012-35

\\timmons.com\tgfs\306\103\33882-alb_sidewalks\SW\GS\sheet\CD\33882C-C4.0-RIO-SEC4-SITE PLAN.dwg | Plotted on 10/28/2020 8:35 AM | by Aaron Matsen

NOTES:

1. THIS RIGHT OF WAY SHEET REPRESENTS A FIELD-RUN PERIMETER SURVEY OF THE PROPOSED R/W LIMITS. ALL ADJOINING / DEPARTING BOUNDARY LINES SHOWN FROM EXISTING R/W ARE COMPILED FROM VARIOUS SOURCES: FOUND RECORD DOCUMENTATION, METES AND BOUNDS DESCRIPTIONS, AND PLATS OF RECORD. THE ADJOINING LINES DO NOT REPRESENT A FIELD-RUN BOUNDARY SURVEY OF THE ADJOINING PROPERTIES AND ARE DELINEATED BASED ON COMPILED DATA. ALL AREAS SHOWN FOR EASEMENT TAKES ARE APPROXIMATE ONLY.

2. THIS PLAN SHEET WAS PREPARED WITHOUT THE BENEFIT OF AT TITLE REPORT AND MAY NOT SHOW ALL EASEMENTS WHICH MAY AFFECT THE PROPERTY(IES) SHOWN HEREON.

3. NO CONTEMPORARY DESIGNATION OR LOCATION OF SUBSURFACE UTILITIES WAS PERFORMED DURING PREPARATION OF THIS PLAT.

4. PHYSICAL IMPROVEMENTS ARE NOT SHOWN HEREON.

5. THIS IS NOT A BOUNDARY SURVEY. PROPERTY INFORMATION SHOWN HEREON IS BASED ON COMPILATION OF LAND RECORDS AND PHYSICAL EVIDENCE INCIDENTAL TO CORRIDOR SURVEY.

6. BEARINGS AND DISTANCES IN PARENTHESIS ARE RECORD PLAT DATA.

7. MONUMENTATION TO BE SET UPON COMPLETION OF CONSTRUCTION.

NOTE : ALL PLUSES ARE REFERENCED FROM CONSTRUCTION BASELINE & CONNECTION BASELINE UNLESS NOTED OTHERWISE.

NOTE : FIGURES IN BRACKETS AND DOT - DASHED LINES DENOTE PERMANENT EASEMENTS.

NOTE : FIGURES IN PARENTHESIS AND DOT - DOT - DASHED LINES DENOTE TEMPORARY EASEMENTS.

NAD 83

SCALE 1"=25'

0 25' 50'

R/W PLANS

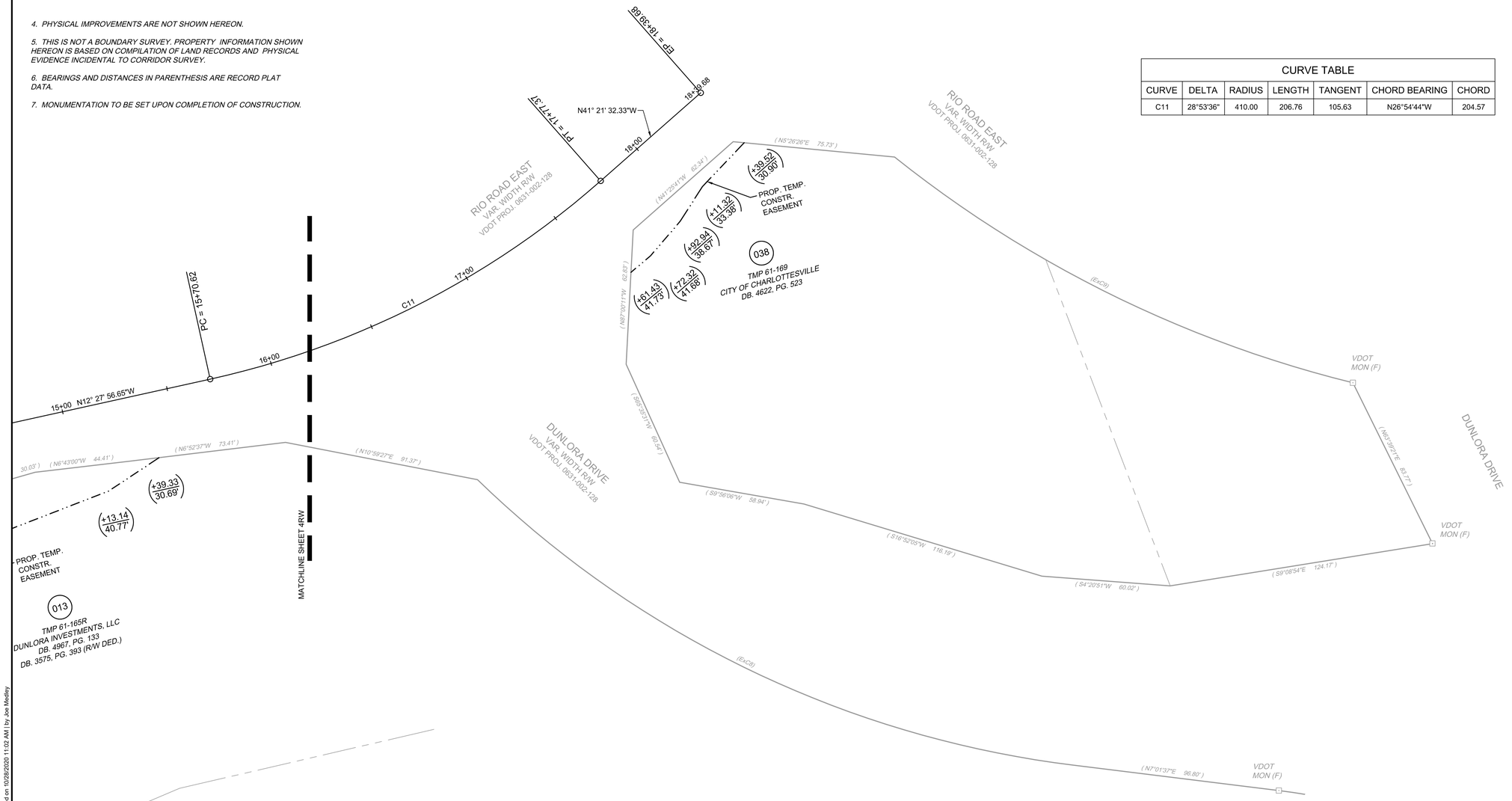
COMMONWEALTH OF VIRGINIA
JOSEPH C. MEDLEY
Lic. No. 3385
10/28/20
LAND SURVEYOR

TIMMONS GROUP
Richmond, Virginia
LAND SURVEYOR

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.	(STATE)631	0000-002-R78, R201	4ARW

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

CURVE TABLE						
CURVE	DELTA	RADIUS	LENGTH	TANGENT	CHORD BEARING	CHORD
C11	28°53'36"	410.00	206.76	105.63	N26°54'44"W	204.57



EXISTING RIGHT OF WAY / BOUNDARY

CURVE TABLE						
CURVE	RADIUS	LENGTH	TANGENT	DELTA	CHORD BEARING	CHORD
(ExC8)	484.32'	314.09'	162.79'	37°09'25"	S25°36'33"W	308.61'
(ExC9)	556.92'	240.54'	122.18'	24°44'49"	N26°13'00"E	238.68'

PARCEL NO.	TAX MAP NO.	LANDOWNER	APPROXIMATE AREAS			
			R/W TAKE	R/W TAKE IN PRESCRIPTIVE R/W	EASEMENTS PERMANENT PERPETUAL STREET	EASEMENTS TEMPORARY CONSTR.
			SQ. FT	SQ. FT	SQ. FT.	SQ. FT.
038	61-169	CITY OF CHARLOTTESVILLE	0	0	0	643

SYMBOL LEGEND

- ■ *Prop. Right of Way Monument (St'd RM-2)*
- +00.00 / 00.00' *Proposed Right of Way*
- (+00.00 / 00.00') *Prop. Temporary (Constr.) Esmt.*
- [+00.00 / 00.00'] *Prop. Perpetual Street Esmt.*

UPC NO. 104159

IFB 2021-12012-35

Y:\80433882.005-Albemarle_ROW\DWG\ROW_plan_Rev\104159_RIO1_rw.dwg | Plotted on 10/28/2020 11:02 AM | by Joe Medley

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ALBEMARLE COUNTY SIDEWALKS
COUNTY OF ALBEMARLE, VIRGINIA
RIO ROAD SITE PLAN

REVISION DESCRIPTION

DATE

DATE 10/28/20
DRAWN BY J. MEDLEY
DESIGNED BY -
CHECKED BY -
SCALE 1" = 25'

JOB NO. 33882.005
SHEET NO. 4ARW

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NOTE*:
CONTRACTOR SHALL PROVIDE SHOP DRAWINGS SEALED BY A LICENSED ENGINEER FOR THE DESIGN OF HR-1 AND FOUNDATIONS. FOUNDATIONS LOCATED ALONG BREAKPOINT OF SLOPE SHALL BE SET DEEPER AND DESIGNED TO SUPPORT RAIL AT TOP OF SLOPE. OTHER COMMERCIALLY AVAILABLE RAILING SYSTEMS WILL BE CONSIDERED IF PROVIDED AND APPROVED DURING BIDDING PERIOD.

ST'D DETECTIBLE WARNING SURFACE REQ'D

ASPHALT PATH

ADD PIPE RAIL ON BACK OF GUARDRAIL POSTS FOR ENTIRE LENGTH OF GUARDRAIL

15" RCP W/ HEADWALL
INV. (OUT)=622.34'
CONC. PROTECTION & ROCK ARMOR AT OUTLET

EXTEND OR RELOCATE AS NECESSARY

REMOVE TREES

FILL SLOPE TRANSITION

FILL SLOPE TRANSITION AND CHANGE FROM 4' SHOULDER TO THE WEST TO 1' SHOULDER TO THE EAST.

VDOT STD. HR-1 REQ'D 1' FROM PATH IN 4' SHOULDER TO SOUTH AND ALONG BREAK POINT OF SLOPE 1' FROM PATH TO THE NORTH*

VDOT STD. CLASS A1 RIPRAP
1.7 TONS
WIDTH 1 = 3.75'
WIDTH 2 = 8.75'
LENGTH = 5.0'
DEPTH = 18"

PROP. TEMP. CONSTR. EASEMENT AND PERM. DRAINAGE EASEMENT

PROP. TEMP. CONSTR. EASEMENT

4' SHOULDER

ADJUST VALVE TO MATCH SIDEWALK GRADE

VDOT STD. HR-1 REQ'D 5' FROM WATER AT BREAKPOINT OF SLOPE*

ASPHALT PATH

ROCKFISH GAP TURNPIKE CONSTR. BASELINE

STA 10+03.19
BEGIN CONSTR.

STD UD-4 REQ'D

STD CG-7 REQ'D

PROP. 5' CONC. SIDEWALK

VDOT STD. CLASS A1 RIPRAP
2 TONS
WIDTH 1 = 3.75'
WIDTH 2 = 5.0'
LENGTH = 8.0'
DEPTH = 18"

30" RCP
INV.=608.78'
OUTLET IN DISREPAIR; DETACHED SECTIONS & ERODED SLOPES

(FILL) (CUT)
CONSTRUCTION LIMITS

PROP. V-NOTCH DITCH

LITTLE FOX LANE
50' R/W
DB. 1589, PG. 177
DB. 1589, PG. 192 (SUBD PLAT)

CORY FARM ROAD
120' R/W
DB. 1589, PG. 177
DB. 1589, PG. 192 (SUBD PLAT)

TMP 56F-1-A (COMMON AREA) CORY FARM HOMEOWNERS' ASSOCIATION INC. DB. 2667, PG. 458 DB. 1589, PG. 192 (PLAT)

TMP 56F-1-1 SCOTT & SUSAN KINNAN DB. 2697, PG. 672

TMP 56F-1-2 JOHN D. & ISABELLE REEVES DB. 2516, PG. 351

TMP 56F-1-3 JEFFREY M. & SANDRA A. THOMPSON DB. 3411, PG. 74

TMP 56F-1-4 KISHOR N. & PARUL KISHOR CHAVDA DB. 2622, PG. 525

TMP 56F-1-4 KYLE JAMES & BROOKE CARRICO QUINLIVAN DB. 3411, PG. 74

US RTE. 250 ROCKFISH GAP TURNPIKE
VAR. WIDTH R/W
VDOT PROJ. 0240-730A2

* CONTRACTOR TO MILL, OVERLAY, AND / OR BUILD-UP PAVEMENT WHERE NECESSARY TO ACHIEVE CROSS SLOPES & MIN. 1.5" OVERLAY AS SHOWN ON CROSS SECTIONS. CONTRACTOR TO REPLACE ANY PAVEMENT MARKINGS DAMAGED OR REMOVED ACCORDING TO VDOT STANDARDS.

SHEET REFERENCES
2C - TYPICAL SECTIONS - ROCKFISH GAP TURNPIKE
XS-7-XS-10 - ROCKFISH GAP TURNPIKE - CROSS SECTIONS

STRIPING LEGEND

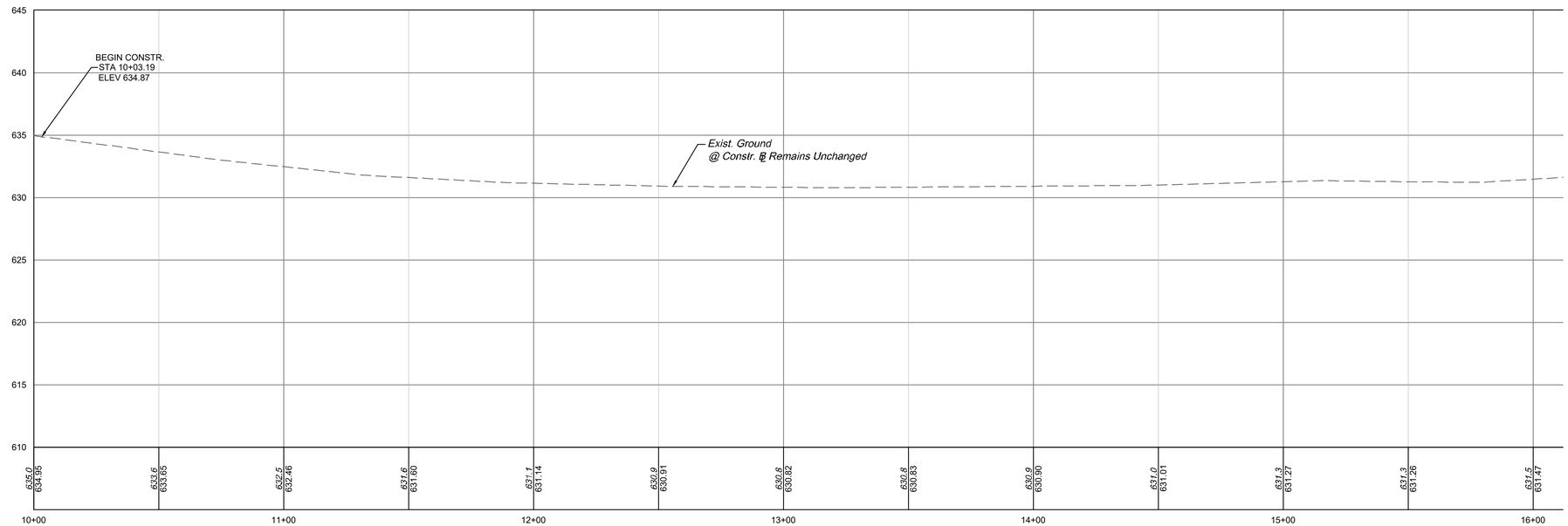
1. 4" SINGLE WHITE LINE
2. 4" DOUBLE SOLID YELLOW LINE
3. 6" SINGLE WHITE LINES (CROSS WALK)
4. 24" SOLID WHITE LINE
5. 4" SINGLE DASHED WHITE LINE
6. HIGH VISIBILITY YELLOW PAINT
7. PROP. TURN ARROWS

ASPHALT PATH (SEE LIGHT DUTY DRIVEWAY SECTION)
CONCRETE SIDEWALK
NEW PAVEMENT
PAVEMENT RESURFACING*

SCALE 1"=25'
0 25' 50'

NAD 83

MATCHLINE SHEET 5A



PROFILE SCALE
5
0
0 50

UPC NO. 104159

IFB 2021-12012-35

COMMONWEALTH OF VIRGINIA
JONATHAN M. SHOWALTER
Lic. No. 0402057151
10/28/2020
PROFESSIONAL ENGINEER

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DATE
10/28/2020
DRAWN BY
J. SHOWALTER
DESIGNED BY
J. SHOWALTER
CHECKED BY
J. HASH
SCALE
1" = 25'

TIMMONS GROUP

ALBEMARLE COUNTY SIDEWALKS
COUNTY OF ALBEMARLE, VIRGINIA
ROCKFISH GAP TURNPIKE SITE PLAN

JOB NO.
33882.005
SHEET NO.
5

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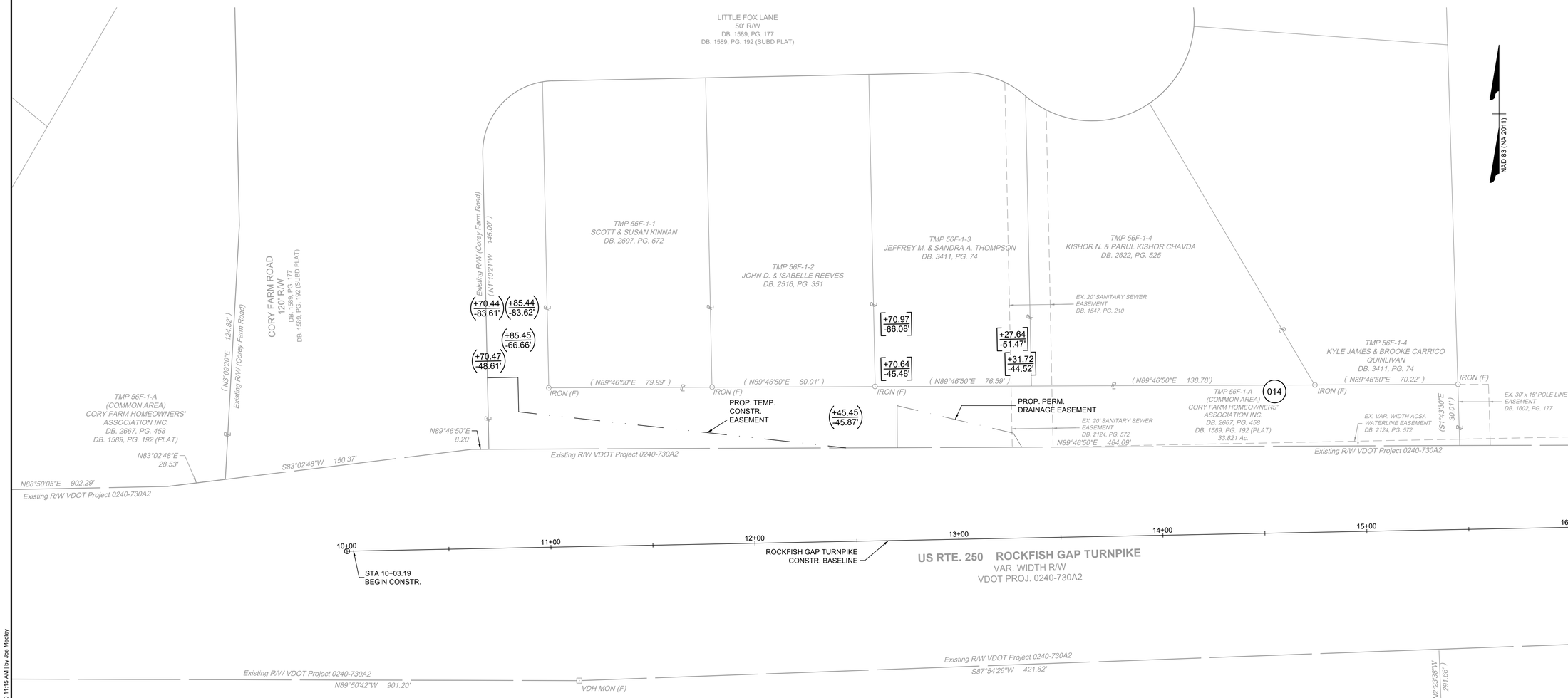
R/W PLANS

COMMONWEALTH OF VIRGINIA
JOSEPH C. MEDLEY
Lic. No. 3385
10/28/20
LAND SURVEYOR

TIMMONS GROUP
Richmond, Virginia
LAND SURVEYOR

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.	US250	0000-002-R78, R201	5RW

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



SCALE 1"=25'
0 25' 50'

NOTES:

1. *THIS RIGHT OF WAY SHEET REPRESENTS A FIELD-RUN PERIMETER SURVEY OF THE PROPOSED R/W LIMITS. ALL ADJOINING / DEPARTING BOUNDARY LINES SHOWN FROM EXISTING R/W ARE COMPILED FROM VARIOUS SOURCES: FOUND RECORD DOCUMENTATION, METES AND BOUNDS DESCRIPTIONS, AND PLATS OF RECORD. THE ADJOINING LINES DO NOT REPRESENT A FIELD-RUN BOUNDARY SURVEY OF THE ADJOINING PROPERTIES AND ARE DELINEATED BASED ON COMPILED DATA. ALL AREAS SHOWN FOR EASEMENT TAKES ARE APPROXIMATE ONLY.*
2. *THIS PLAN SHEET WAS PREPARED WITHOUT THE BENEFIT OF AT TITLE REPORT AND MAY NOT SHOW ALL EASEMENTS WHICH MAY AFFECT THE PROPERTY(IES) SHOWN HEREON.*
3. *NO CONTEMPORARY DESIGNATION OR LOCATION OF SUBSURFACE UTILITIES WAS PERFORMED DURING PREPARATION OF THIS PLAT.*
4. *PHYSICAL IMPROVEMENTS ARE NOT SHOWN HEREON.*
5. *THIS IS NOT A BOUNDARY SURVEY. PROPERTY INFORMATION SHOWN HEREON IS BASED ON COMPILATION OF LAND RECORDS AND PHYSICAL EVIDENCE INCIDENTAL TO CORRIDOR SURVEY.*
6. *BEARINGS AND DISTANCES IN PARENTHESIS ARE RECORD PLAT DATA.*
7. *MONUMENTATION TO BE SET UPON COMPLETION OF CONSTRUCTION.*

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NOTE : FIGURES IN PARENTHESIS AND DOT - DOT - DASHED LINES DENOTE TEMPORARY EASEMENTS.

PARCEL NO.	TAX MAP NO.	LANDOWNER	APPROXIMATE AREAS		
			R/W TAKE	EASEMENTS	
				PERMANENT DRAINAGE EASEMENT	TEMPORARY CONSTR.
			SQ. FT	SQ. FT.	SQ. FT.
014	56F-1-A	CORY FARM HOMEOWNERS' ASSOCIATION, INC.	0	797	1989

SYMBOL LEGEND

- ■ *Prop. Right of Way Monument (St'd RM-2)*
- +00.00 / 00.00' *Proposed Right of Way*
- (+00.00 / 00.00') *Prop. Temporary (Constr.) Esmt.*
- [+21.61 / 681.21'] *Proposed Permanent Drainage Esmt.*

UPC NO. 104159

IFB 2021-12012-35

Y:\80433882.005-Albemarle_ROW\DWG\ROW_plan_Rockfish\104159_RGT_rw_v2.dwg | Plotted on 10/28/2020, 11:15 AM | by Joe Medley

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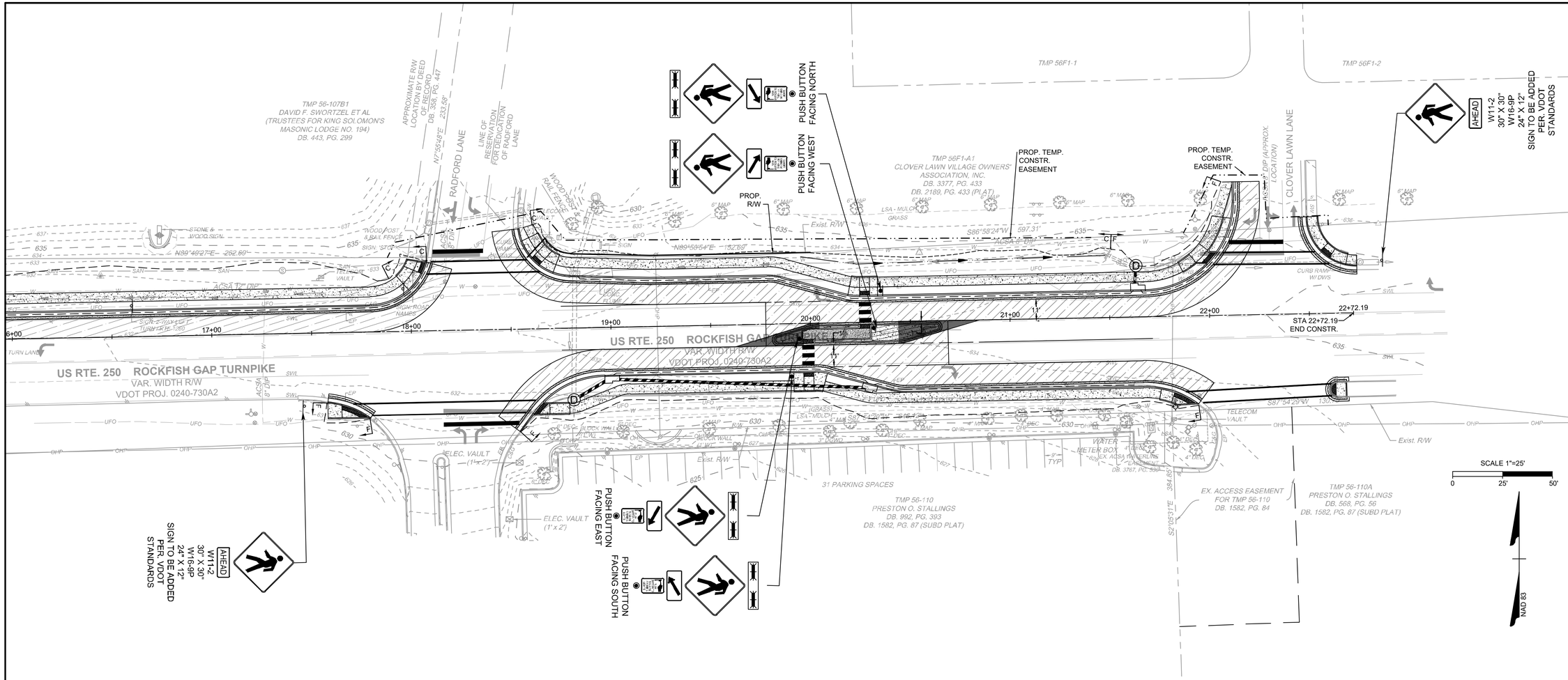
ALBEMARLE COUNTY SIDEWALKS
COUNTY OF ALBEMARLE, VIRGINIA
ROCKFISH GAP TURNPIKE SITE PLAN

REVISION DESCRIPTION	DATE

DATE 10/28/20
DRAWN BY J. MEDLEY
DESIGNED BY J. SHOWALTER
CHECKED BY J. HASH
SCALE 1" = 25'

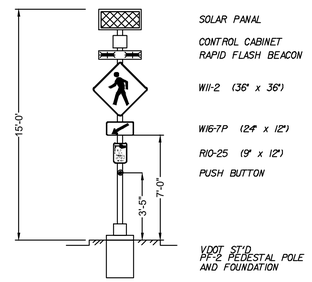
JOB NO. 33882.005
SHEET NO. 5RW

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SOLAR POWERED RRFB DETAIL



UPC NO. 104159

COMMONWEALTH OF VIRGINIA
JONATHAN M. SHOWALTER
Lic. No. 0402057151
10/28/2020
PROFESSIONAL ENGINEER

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YOUR VISION ACHIEVED THROUGH OURS.

DATE
10/28/2020
DRAWN BY
J. SHOWALTER
DESIGNED BY
J. SHOWALTER
CHECKED BY
J. HASH
SCALE

TIMMONS GROUP

ALBEMARLE COUNTY SIDEWALKS
COUNTY OF ALBEMARLE, VIRGINIA

PEDESTRIAN FLASHING BEACON AND SIGNAGE PLAN

JOB NO.
33882.005
SHEET NO.
5A(1)

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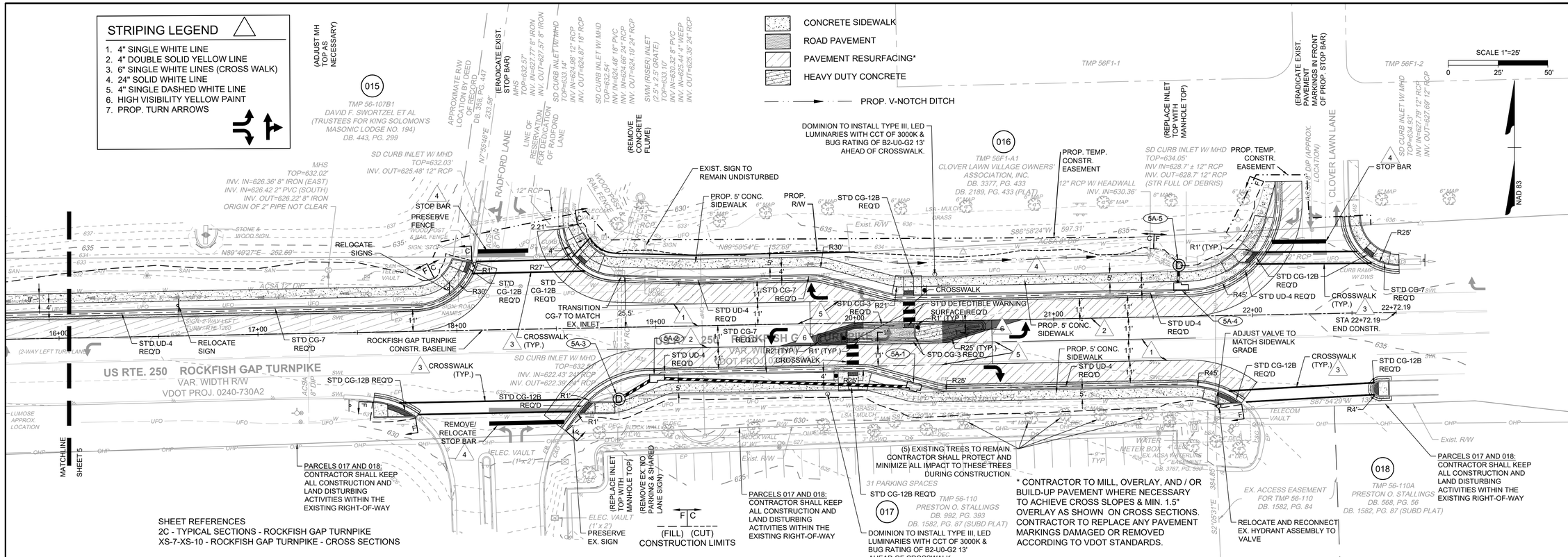
IFB 2021-12012-35

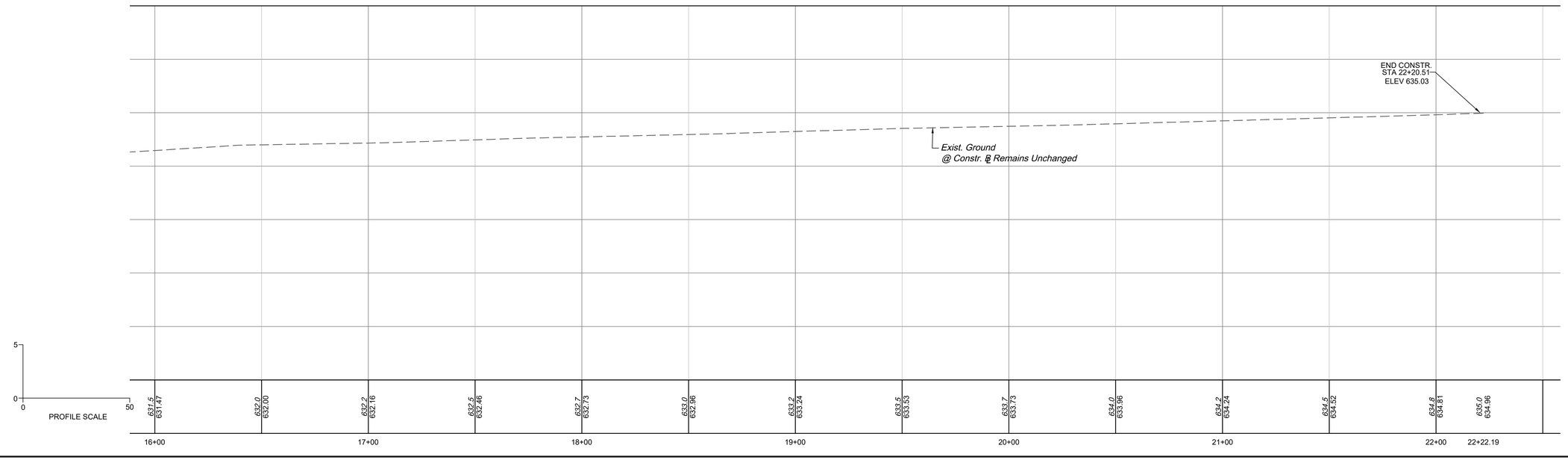
STRIPING LEGEND

1. 4" SINGLE WHITE LINE
2. 4" DOUBLE SOLID YELLOW LINE
3. 6" SINGLE WHITE LINES (CROSS WALK)
4. 24" SOLID WHITE LINE
5. 4" SINGLE DASHED WHITE LINE
6. HIGH VISIBILITY YELLOW PAINT
7. PROP. TURN ARROWS

CONCRETE SIDEWALK
ROAD PAVEMENT
PAVEMENT RESURFACING*
HEAVY DUTY CONCRETE
PROP. V-NOTCH DITCH

SCALE 1"=25'
0 25' 50'
NAD 83





COMMONWEALTH OF VIRGINIA
JONATHAN M. SHOWALTER
Lic. No. 0402057151
10/28/2020
PROFESSIONAL ENGINEER

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J. SHOWALTER
DESIGNED BY
J. SHOWALTER
CHECKED BY
J. HASH
SCALE
1" = 25'

TIMMONS GROUP

ALBEMARLE COUNTY SIDEWALKS
COUNTY OF ALBEMARLE, VIRGINIA
ROCKFISH GAP TURNPIKE SITE PLAN

JOB NO. 33882.005
SHEET NO. 5A

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IFB 2021-12012-35

UPC NO. 104159

R/W PLANS

CURVE TABLE						
CURVE	DELTA	RADIUS	LENGTH	TANGENT	CHORD BEARING	CHORD
C1	58°31'01"	15.42	15.75	8.64	S59°23'24"E	15.07

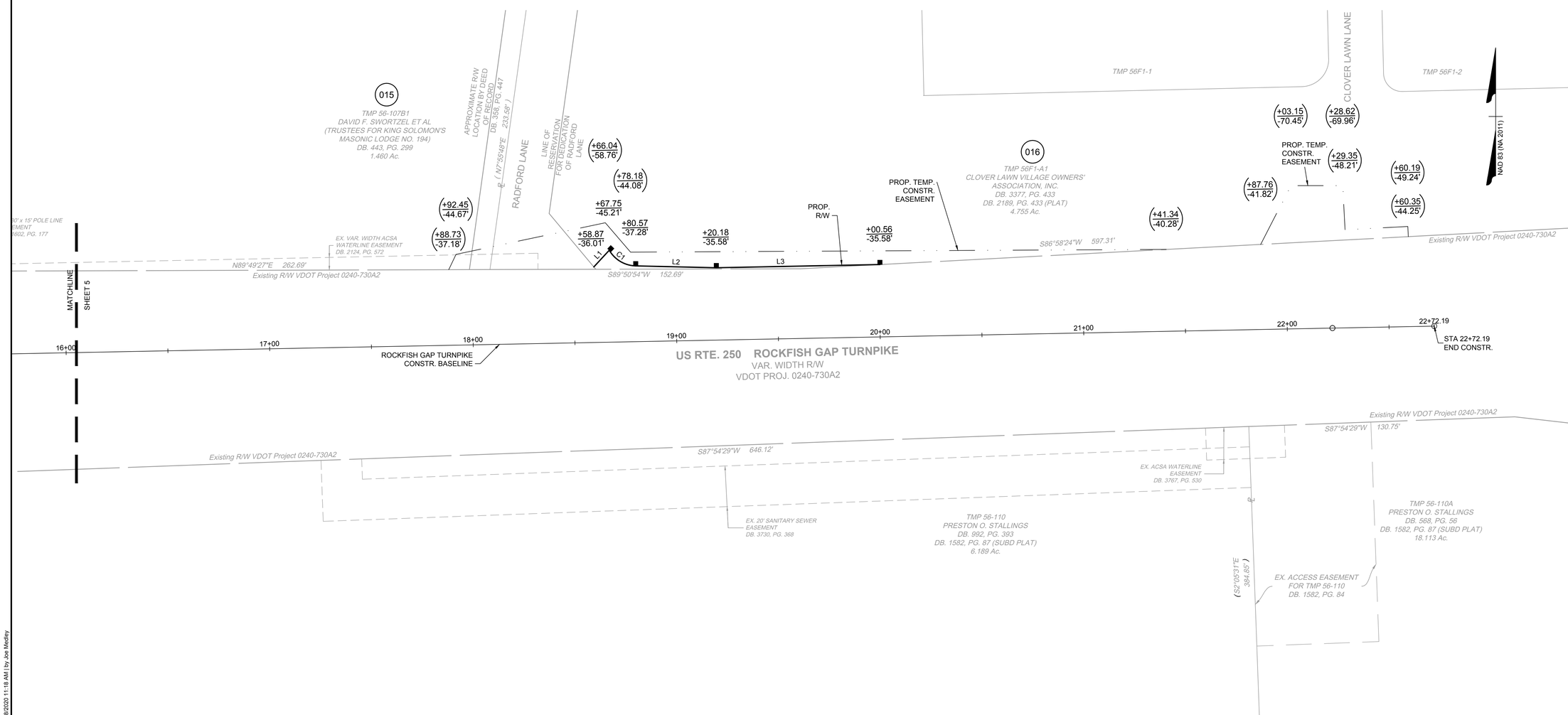
LINE TABLE		
LINE	LENGTH	BEARING
L1	11.17	S42°54'04"W
L2	39.65	N88°39'44"W
L3	80.38	S88°53'02"W

COMMONWEALTH OF VIRGINIA
JOSEPH C. MEDLEY
Lic. No. 3385
10/28/20
LAND SURVEYOR

TIMMONS GROUP
Richmond, Virginia
LAND SURVEYOR

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.	US250	0000-002-R78, R201	5ARW

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. *THIS RIGHT OF WAY SHEET REPRESENTS A FIELD-RUN PERIMETER SURVEY OF THE PROPOSED R/W LIMITS. ALL ADJOINING / DEPARTING BOUNDARY LINES SHOWN FROM EXISTING R/W ARE COMPILED FROM VARIOUS SOURCES: FOUND RECORD DOCUMENTATION, METES AND BOUNDS DESCRIPTIONS, AND PLATS OF RECORD. THE ADJOINING LINES DO NOT REPRESENT A FIELD-RUN BOUNDARY SURVEY OF THE ADJOINING PROPERTIES AND ARE DELINEATED BASED ON COMPILED DATA. ALL AREAS SHOWN FOR EASEMENT TAKES ARE APPROXIMATE ONLY.*
2. *THIS PLAN SHEET WAS PREPARED WITHOUT THE BENEFIT OF AT TITLE REPORT AND MAY NOT SHOW ALL EASEMENTS WHICH MAY AFFECT THE PROPERTY(IES) SHOWN HEREON.*
3. *NO CONTEMPORARY DESIGNATION OR LOCATION OF SUBSURFACE UTILITIES WAS PERFORMED DURING PREPARATION OF THIS PLAT.*
4. *PHYSICAL IMPROVEMENTS ARE NOT SHOWN HEREON.*
5. *THIS IS NOT A BOUNDARY SURVEY. PROPERTY INFORMATION SHOWN HEREON IS BASED ON COMPILATION OF LAND RECORDS AND PHYSICAL EVIDENCE INCIDENTAL TO CORRIDOR SURVEY.*
6. *BEARINGS AND DISTANCES IN PARENTHESIS ARE RECORD PLAT DATA.*
7. *MONUMENTATION TO BE SET UPON COMPLETION OF CONSTRUCTION.*

NOTE : ALL PLUSES ARE REFERENCED FROM CONSTRUCTION BASELINE & CONNECTION BASELINE UNLESS NOTED OTHERWISE.

NOTE : FIGURES IN BRACKETS AND DOT - DASHED LINES DENOTE PERMANENT EASEMENTS.

NOTE : FIGURES IN PARENTHESIS AND DOT - DOT - DASHED LINES DENOTE TEMPORARY EASEMENTS.

PARCEL NO.	TAX MAP NO.	LANDOWNER	APPROXIMATE AREAS		
			R/W TAKE	EASEMENTS	
				PERMANENT DRAINAGE EASEMENT	TEMPORARY CONSTR.
			SQ. FT	SQ. FT.	SQ. FT.
015	56-107B1	DAVID F. SWORTZEL, LINDEN SHROYER, & WALTER L. RADFORD, TRUSTEES FOR KING SOLOMON'S MASONIC LODGE NO. 194, A.F. & A.M.	0	0	177
016	56F1-A1	CLOVER LAWN VILLAGE OWNERS' ASSOCIATION, INC.	200	0	2832

SCALE 1"=25'
0 25' 50'

SYMBOL LEGEND

- ■ *Prop. Right of Way Monument (St'd RM-2)*
- +00.00 / 00.00' *Proposed Right of Way*
- (+00.00 / 00.00') *Prop. Temporary (Constr.) Esmt.*
- [+21.61 / 681.21'] *Proposed Permanent Drainage Esmt.*

UPC NO. 104159

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TIMMONS GROUP

REVISION DESCRIPTION

DATE

DATE 10/28/20
DRAWN BY J. MEDLEY
DESIGNED BY J. SHOWALTER
CHECKED BY J. HASH
SCALE 1" = 25'

ALBEMARLE COUNTY SIDEWALKS
COUNTY OF ALBEMARLE, VIRGINIA
ROCKFISH GAP TURNPIKE SITE PLAN

JOB NO. 33882.005
SHEET NO. 5ARW

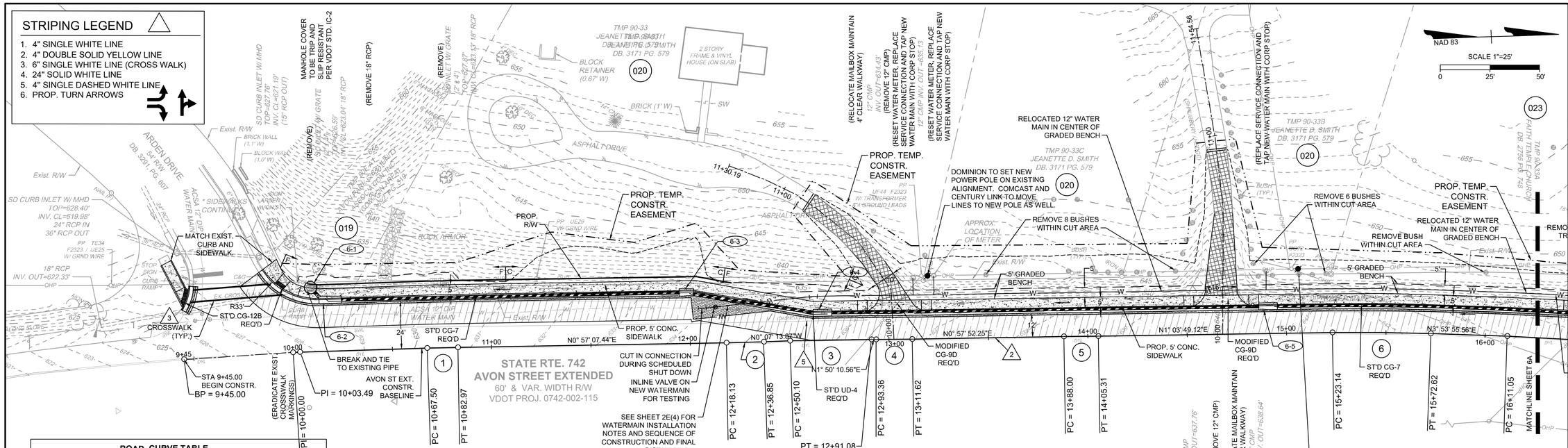
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Y:\33xxx\33882.005-Albemarle_ROWDWG\ROW_plan_Rockfish\104159_RGT_rw_v2.dwg | Plotted on 10/28/2020 11:18 AM | by Joe Medley

IFB 2021-12012-35

STRIPING LEGEND

1. 4" SINGLE WHITE LINE
2. 4" DOUBLE SOLID YELLOW LINE
3. 6" SINGLE WHITE LINE (CROSS WALK)
4. 24" SOLID WHITE LINE
5. 4" SINGLE DASHED WHITE LINE
6. PROP. TURN ARROWS

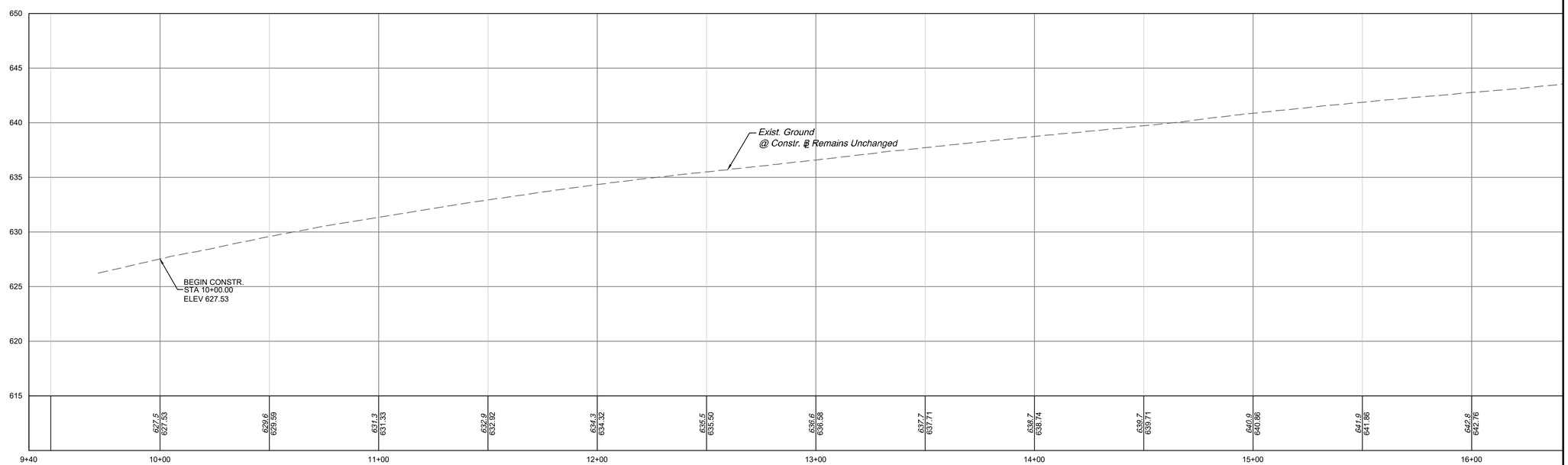


ROAD CURVE TABLE						
CURVE	RADIUS	LENGTH	TANGENT	DELTA	CHORD BEARING	CHORD
1	1000.000'	15.463'	7.73'	0°53'10"	N0°30'33"E	15.46'
2	1000.000'	18.720'	9.36'	1°04'21"	N0°24'57"E	18.72'
3	1200.000'	40.983'	20.49'	1°57'24"	N0°51'28"E	40.98'
4	1200.000'	18.258'	9.13'	0°52'18"	N1°24'01"E	18.26'
5	10000.002'	17.302'	8.65'	0°05'57"	N1°00'51"E	17.30'
6	1000.000'	49.482'	24.75'	2°50'06"	N2°28'52"E	49.48'

SHEET REFERENCES
2D - TYPICAL SECTIONS - AVON STREET EXTENDED
XS-11-XS-23 - AVON EXTENDED - CROSS SECTIONS

* CONTRACTOR TO MILL, OVERLAY, AND / OR BUILD-UP PAVEMENT WHERE NECESSARY TO ACHIEVE CROSS SLOPES & MIN. 1.5" OVERLAY AS SHOWN ON CROSS SECTIONS. CONTRACTOR TO REPLACE ANY PAVEMENT MARKINGS DAMAGED OR REMOVED ACCORDING TO VDOT STANDARDS.

NOTE: DUE TO THE STEEP GRADES OF THE EXISTING DRIVEWAYS ON THIS SHEET THE 5' GRADED BENCH CANNOT BE EXTENDED ACROSS THE DRIVEWAYS. REFER TO THE DRIVEWAY PROFILES ON SHEET 6A.



COMMONWEALTH OF VIRGINIA
JONATHAN M. SHOWALTER
Lic. No. 0402057151
10/28/2020
PROFESSIONAL ENGINEER

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DATE 10/28/2020
DRAWN BY J. SHOWALTER
DESIGNED BY J. SHOWALTER
CHECKED BY J. HASH
SCALE 1" = 25'

TIMMONS GROUP

ALBEMARLE COUNTY SIDEWALKS
COUNTY OF ALBEMARLE, VIRGINIA
AVON EXTENDED SITE PLAN

JOB NO. 33882.005
SHEET NO. 6

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R/W PLANS

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.	(STATE)742	0000-002-R78, R201	6RW

COMMONWEALTH OF VIRGINIA
JOSEPH C. MEDLEY
Lic. No.3385
LAND SURVEYOR

TIMMONS GROUP
Richmond, Virginia
LAND SURVEYOR

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

NOTES:

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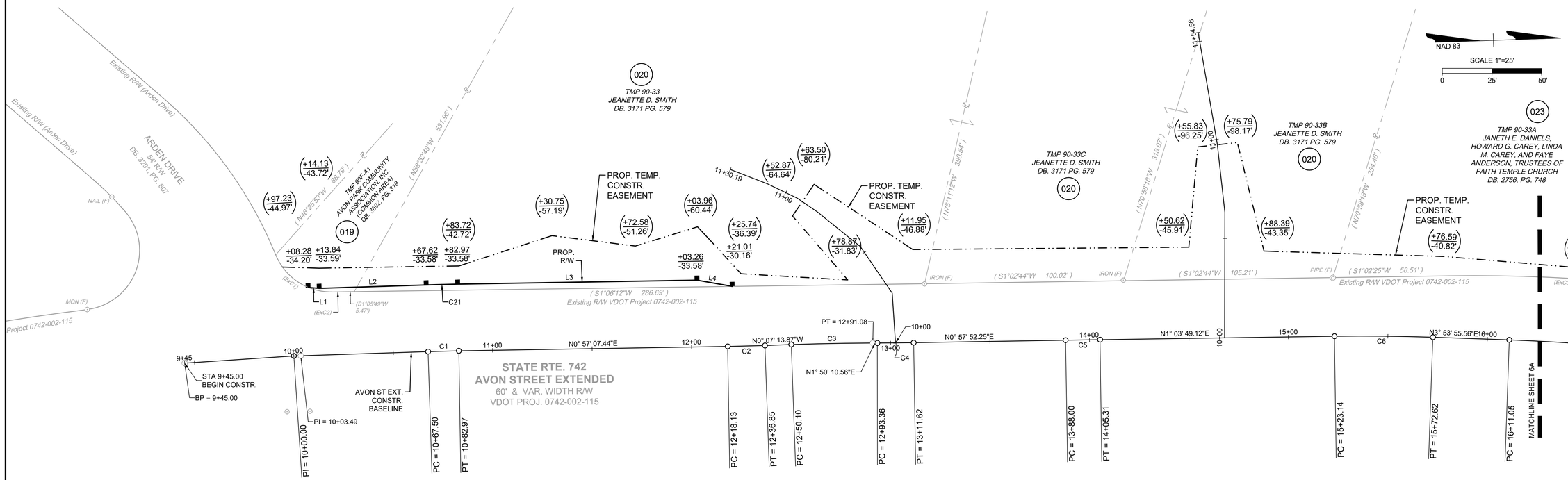
6. BEARINGS AND DISTANCES IN PARENTHESIS ARE RECORD PLAT DATA.

7. MONUMENTATION TO BE SET UPON COMPLETION OF CONSTRUCTION.

NOTE : ALL PLUSES ARE REFERENCED FROM CONSTRUCTION BASELINE & CONNECTION BASELINE UNLESS NOTED OTHERWISE.

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NOTE : FIGURES IN PARENTHESIS AND DOT - DOT - DASHED LINES DENOTE TEMPORARY EASEMENTS.



CURVE TABLE

CURVE	RADIUS	LENGTH	TANGENT	DELTA	CHORD BEARING	CHORD
C1	1000.000'	15.463'	7.73'	0°53'10"	N0°30'33"E	15.46'
C2	1000.000'	18.720'	9.36'	1°04'21"	N0°24'57"E	18.72'
C3	1200.000'	40.983'	20.49'	1°57'24"	N0°51'28"E	40.98'
C4	1200.000'	18.258'	9.13'	0°52'18"	N1°24'01"E	18.26'
C5	10000.002'	17.302'	8.65'	0°05'57"	N1°00'51"E	17.30'
C6	1000.000'	49.482'	24.75'	2°50'06"	N2°28'52"E	49.48'

PROPOSED RIGHT-OF-WAY

LINE TABLE

LINE	LENGTH	BEARING
L1	5.59	N6°23'28"E
L2	53.78	N0°04'23"E
L3	120.30	N0°57'07"E
L4	17.99	N11°54'38"E

PROPOSED RIGHT-OF-WAY

CURVE TABLE

CURVE	DELTA	RADIUS	LENGTH	TANGENT	CHORD BEARING	CHORD
C21	0°52'45"	1033.58	15.86	7.93	N0°30'45"E	15.86

EXISTING RIGHT OF WAY / BOUNDARY

CURVE TABLE

CURVE	*RADIUS*	*LENGTH*	*TANGENT*	*DELTA*	*CHORD BEARING*	*CHORD*
(ExC1)	*30.00'*	*36.13'*	*20.62'*	*69°00'21"*	*S35°19'30"W*	*33.99'*
(ExC2)	*1175.92'*	*5.64'*	*2.82'*	*0°16'29"*	*S0°57'34"W*	*5.64'*
(ExC3)	*848.51'*	*111.68'*	*55.92'*	*7°32'29"*	*S4°48'40"W*	*111.60'*

PARCEL NO.	TAX MAP NO.	LANDOWNER	APPROXIMATE AREAS		
			R/W TAKE	EASEMENTS	
				PERMANENT	TEMPORARY
				SIGN EASEMENT	CONSTR.
			SQ. FT	SQ. FT.	SQ. FT.
019	90F-A1	AVON PARK COMMUNITY ASSOCIATION, INC.	41	0	348
020	90-33	JEANETTE D. SMITH	555	0	5157
020	90-33C	JEANETTE D. SMITH	0	0	1701
020	90-33B	JEANETTE D. SMITH	0	0	3063
023	90-33A	JANETH E. DANIELS, HOWARD G. CAREY, LINDA M. CAREY, AND FAYE ANDERSON, TRUSTEES OF FAITH TEMPLE CHURCH	0	0	2176

SYMBOL LEGEND

- ■ *Prop. Right of Way Monument (St'd RM-2)*
- +00.00 / 00.00' *Proposed Right of Way*
- (+00.00 / 00.00') *Prop. Temporary (Constr.) Esmt.*
- [+00.00 / 00.00'] *Proposed Permanent Drainage Esmt.*

UPC NO. 104159

IFB 2021-12012-35

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REVISION DESCRIPTION

DATE

DATE 10/28/20 -

DRAWN BY J. MEDLEY

DESIGNED BY -

CHECKED BY -

SCALE 1" = 25'

TIMMONS GROUP

ALBEMARLE COUNTY SIDEWALKS
COUNTY OF ALBEMARLE, VIRGINIA
AVON EXTENDED SITE PLAN

JOB NO. 33882.005

SHEET NO. 6RW

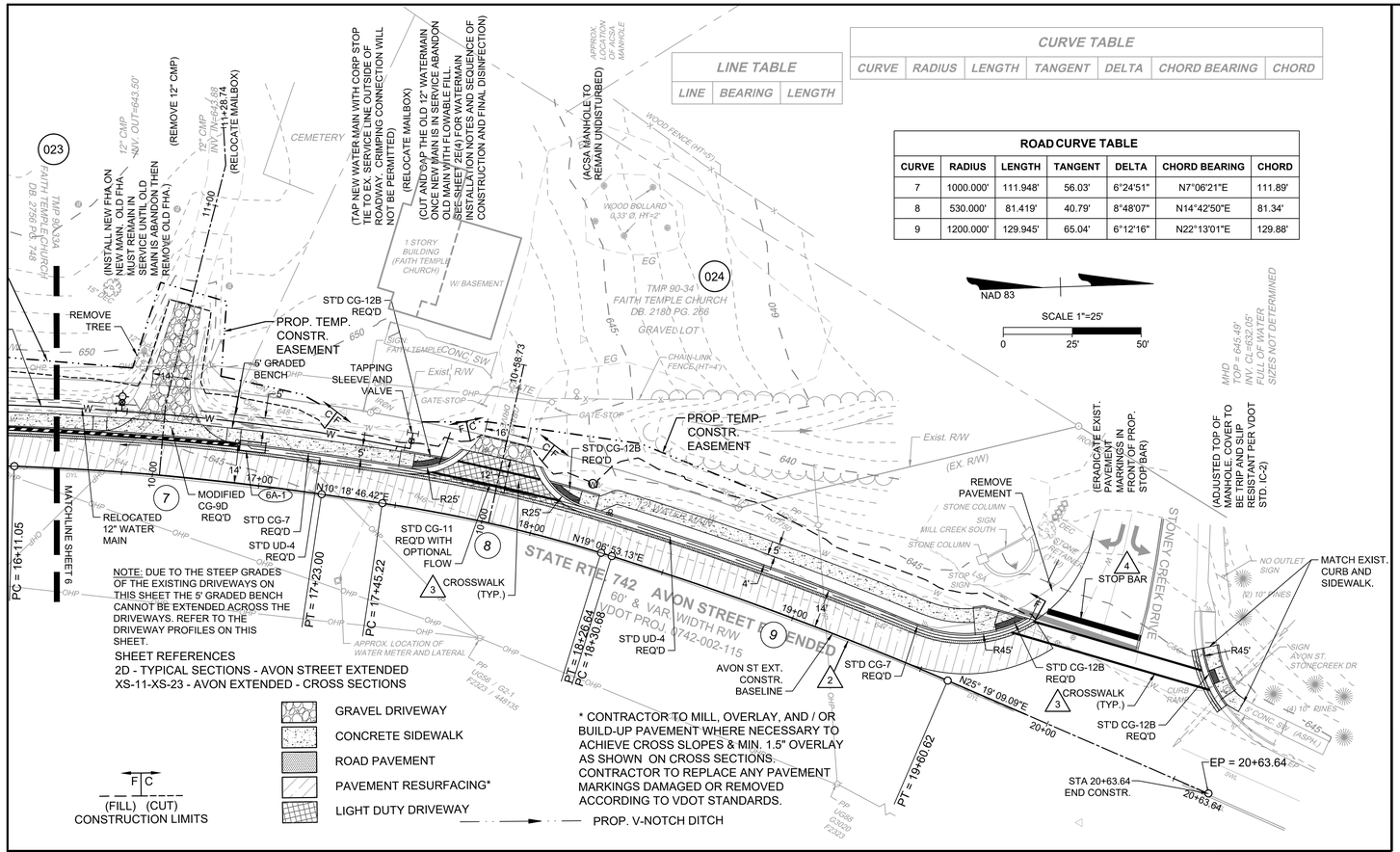
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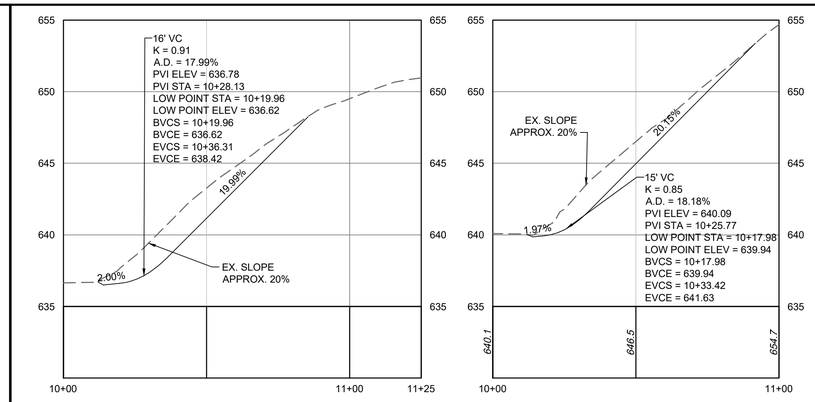
Y:\33882\33882.005-Albemarle__ROW\DWG\ROW_plan_Avon\104159_AVN_rw.dwg | Plotted on 10/28/2020 11:36 AM | by Joe Medley

LINE TABLE		
LINE	BEARING	LENGTH

CURVE TABLE						
CURVE	RADIUS	LENGTH	TANGENT	DELTA	CHORD BEARING	CHORD

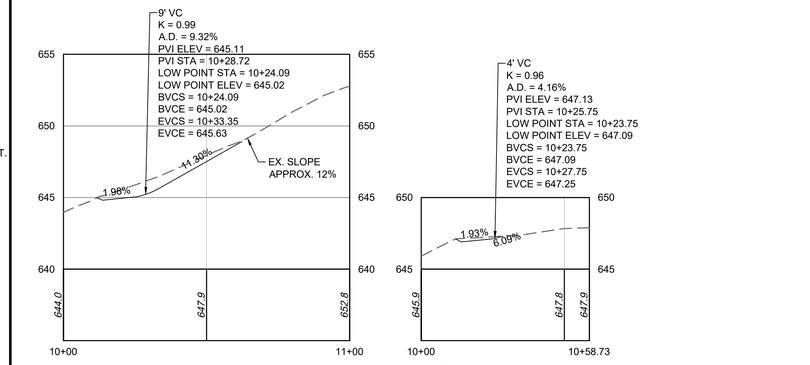
ROAD CURVE TABLE						
CURVE	RADIUS	LENGTH	TANGENT	DELTA	CHORD BEARING	CHORD
7	1000.000'	111.948'	56.03'	6°24'51"	N7°06'21"E	111.89'
8	530.000'	81.419'	40.79'	8°48'07"	N14°42'50"E	81.34'
9	1200.000'	129.945'	65.04'	6°12'16"	N22°13'01"E	129.88'





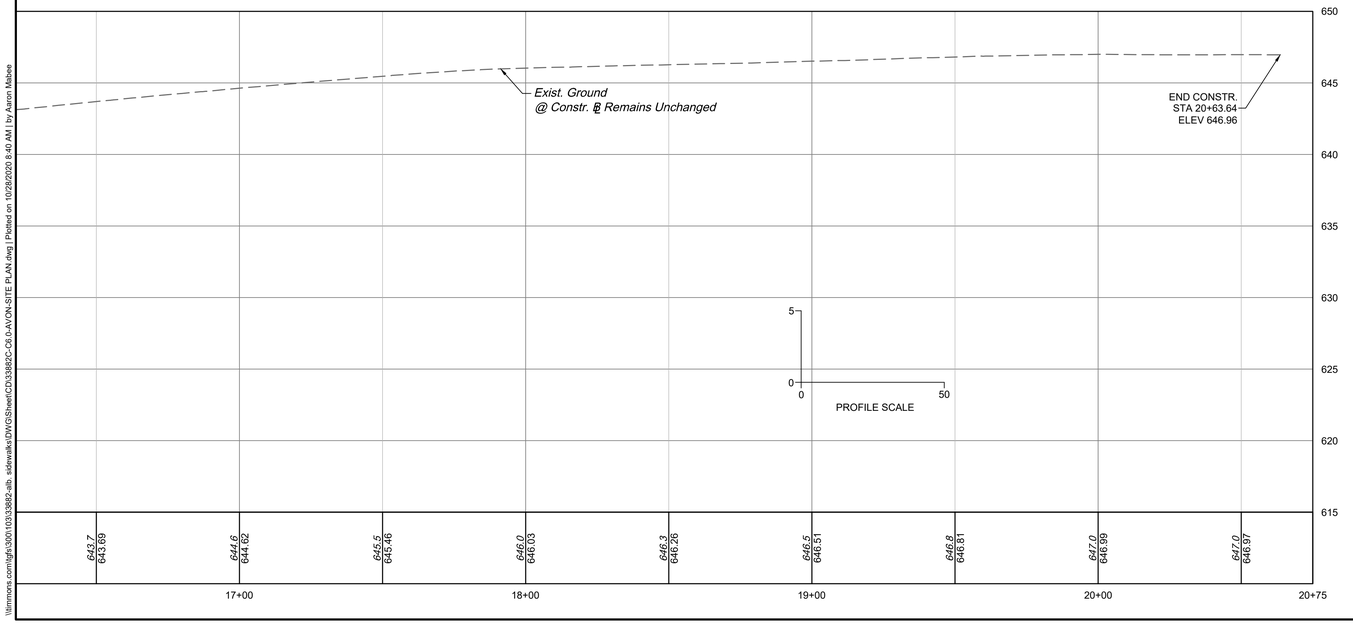
DRIVEWAY 13+03

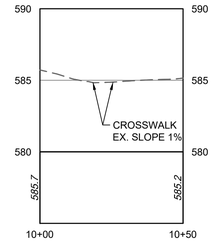
DRIVEWAY 14+68



DRIVEWAY 16+63

DRIVEWAY 17+85

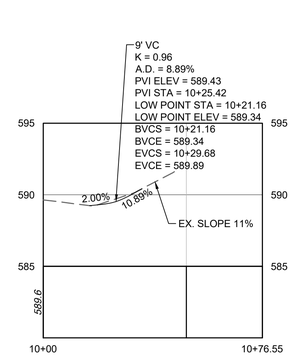




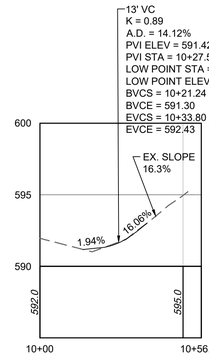
DRIVEWAY 20+00

STRIPING LEGEND

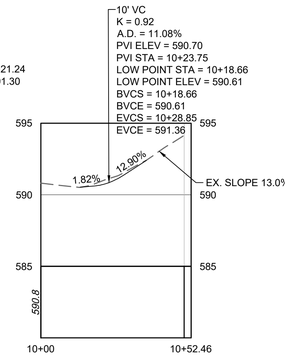
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2. 4" DOUBLE SOLID YELLOW LINE
3. 6" SINGLE WHITE LINE (CROSS WALK)
4. 24" SOLID WHITE LINE
5. 4" SINGLE DASHED WHITE LINE
6. PROP. TURN ARROWS



DRIVEWAY 22+02



DRIVEWAY 23+50



DRIVEWAY 26+22

COMMONWEALTH OF VIRGINIA
JONATHAN M. SHOWALTER
Lic. No. 0402057151
10/28/2020
PROFESSIONAL ENGINEER

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SCALE
1" = 25'

TIMMONS GROUP

ALBEMARLE COUNTY SIDEWALKS
COUNTY OF ALBEMARLE, VIRGINIA
AVON EXTENDED SITE PLAN

JOB NO.
33882.005
SHEET NO.
6A

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R/W PLANS

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.	(STATE)742	0000-002-R78, R201	6A-RW

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

COMMONWEALTH OF VIRGINIA
JOSEPH C. MEDLEY
Lic. No. 3385
LAND SURVEYOR

TIMMONS GROUP
Richmond, Virginia
LAND SURVEYOR

NOTES:

1. THIS RIGHT OF WAY SHEET REPRESENTS A FIELD-RUN PERIMETER SURVEY OF THE PROPOSED R/W LIMITS. ALL ADJOINING / DEPARTING BOUNDARY LINES SHOWN FROM EXISTING R/W ARE COMPILED FROM VARIOUS SOURCES: FOUND RECORD DOCUMENTATION, METES AND BOUNDS DESCRIPTIONS, AND PLATS OF RECORD. THE ADJOINING LINES DO NOT REPRESENT A FIELD-RUN BOUNDARY SURVEY OF THE ADJOINING PROPERTIES AND ARE DELINEATED BASED ON COMPILED DATA. ALL AREAS SHOWN FOR EASEMENT TAKES ARE APPROXIMATE ONLY.

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3. NO CONTEMPORARY DESIGNATION OR LOCATION OF SUBSURFACE UTILITIES WAS PERFORMED DURING PREPARATION OF THIS PLAT.

4. PHYSICAL IMPROVEMENTS ARE NOT SHOWN HEREON.

5. THIS IS NOT A BOUNDARY SURVEY. PROPERTY INFORMATION SHOWN HEREON IS BASED ON COMPILATION OF LAND RECORDS AND PHYSICAL EVIDENCE INCIDENTAL TO CORRIDOR SURVEY.

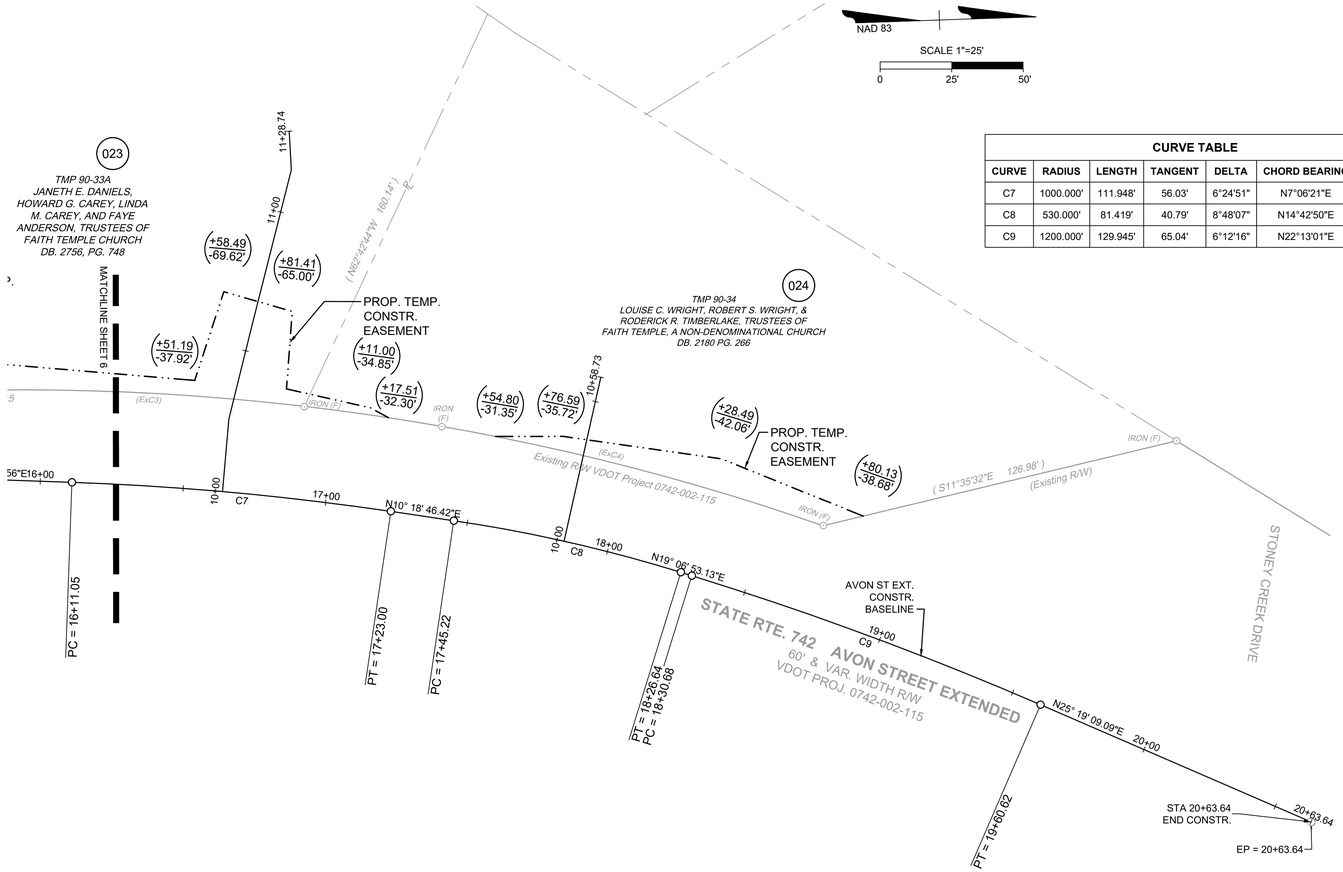
6. BEARINGS AND DISTANCES IN PARENTHESIS ARE RECORD PLAT DATA.

7. MONUMENTATION TO BE SET UPON COMPLETION OF CONSTRUCTION.

NOTE : ALL PLUSES ARE REFERENCED FROM CONSTRUCTION BASELINE & CONNECTION BASELINE UNLESS NOTED OTHERWISE.

NOTE : FIGURES IN BRACKETS AND DOT - DASHED LINES DENOTE PERMANENT EASEMENTS.

NOTE : FIGURES IN PARENTHESIS AND DOT - DOT - DASHED LINES DENOTE TEMPORARY EASEMENTS.



CURVE TABLE

CURVE	RADIUS	LENGTH	TANGENT	DELTA	CHORD BEARING	CHORD
C7	1000.000'	111.948'	56.03'	6°24'51"	N7°06'21"E	111.89'
C8	530.000'	81.419'	40.79'	8°48'07"	N14°42'50"E	81.34'
C9	1200.000'	129.945'	65.04'	6°12'16"	N22°13'01"E	129.88'

PARCEL NO.	TAX MAP NO.	LANDOWNER	APPROXIMATE AREAS		
			R/W TAKE	EASEMENTS	
				PERMANENT SIGN EASEMENT	TEMPORARY CONSTR.
			SQ. FT	SQ. FT.	SQ. FT.
023	90-33A	JANETH E. DANIELS, HOWARD G. CAREY, LINDA M. CAREY, AND FAYE ANDERSON, TRUSTEES OF FAITH TEMPLE CHURCH	0	0	2176
024	90-34	LOUISE C. WRIGHT, ROBERT S. WRIGHT, & RODERICK R. TIMBERLAKE, TRUSTEES OF FAITH TEMPLE, A NON-DENOMINATIONAL CHURCH	0	0	1020

SYMBOL LEGEND

- ■ *Prop. Right of Way Monument (St'd RM-2)*
- +00.00 / 00.00' *Proposed Right of Way*
- (+00.00 / 00.00') *Prop. Temporary (Constr.) Esmt.*
- [+00.00 / 00.00'] *Proposed Permanent Drainage Esmt.*

EXISTING RIGHT OF WAY / BOUNDARY

CURVE TABLE

CURVE	RADIUS	LENGTH	TANGENT	DELTA	CHORD BEARING	CHORD
(ExC3)	848.51'	111.68'	55.92'	7°32'29"	S4°48'40"W	111.60'
(ExC4)	848.51'	186.29'	93.52'	12°34'45"	S14°52'17"W	185.91'

UPC NO. 104159

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YOUR VISION ACHIEVED THROUGH OURS.

TIMMONS GROUP

ALBEMARLE COUNTY SIDEWALKS
COUNTY OF ALBEMARLE, VIRGINIA
AVON EXTENDED SITE PLAN

REVISION DESCRIPTION	DATE
	10/28/20

DRAWN BY: J. MEDLEY
DESIGNED BY: -
CHECKED BY: -
SCALE: 1" = 25'

JOB NO. 33882.005
SHEET NO. 6A-RW

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STRIPING LEGEND

1. 4" SINGLE WHITE LINE
2. 4" DOUBLE SOLID YELLOW LINE
3. 6" SINGLE WHITE LINES (CROSS WALK)
4. 24" SOLID WHITE LINE
5. 4" SINGLE DASHED WHITE LINE
6. PROP. TURN ARROWS

* CONTRACTOR TO MILL, OVERLAY, AND / OR BUILD-UP PAVEMENT WHERE NECESSARY TO ACHIEVE CROSS SLOPES & MIN. 1.5" OVERLAY AS SHOWN ON CROSS SECTIONS. CONTRACTOR TO REPLACE ANY PAVEMENT MARKINGS DAMAGED OR REMOVED ACCORDING TO VDOT STANDARDS.

ROAD CURVE TABLE

CURVE	RADIUS	LENGTH	TANGENT	DELTA	CHORD BEARING	CHORD
10	2000.000'	19.253'	9.63'	0°33'06"	N25°51'14"E	19.25'
11	500.000'	16.440'	8.22'	1°53'02"	N27°04'18"E	16.44'
12	1100.000'	87.603'	43.82'	4°33'47"	N30°17'42"E	87.58'
13	1000.000'	8.244'	4.12'	0°28'20"	N32°48'46"E	8.24'

PROP. V-NOTCH DITCH

F C (FILL) (CUT) CONSTRUCTION LIMITS

CONCRETE SIDEWALK

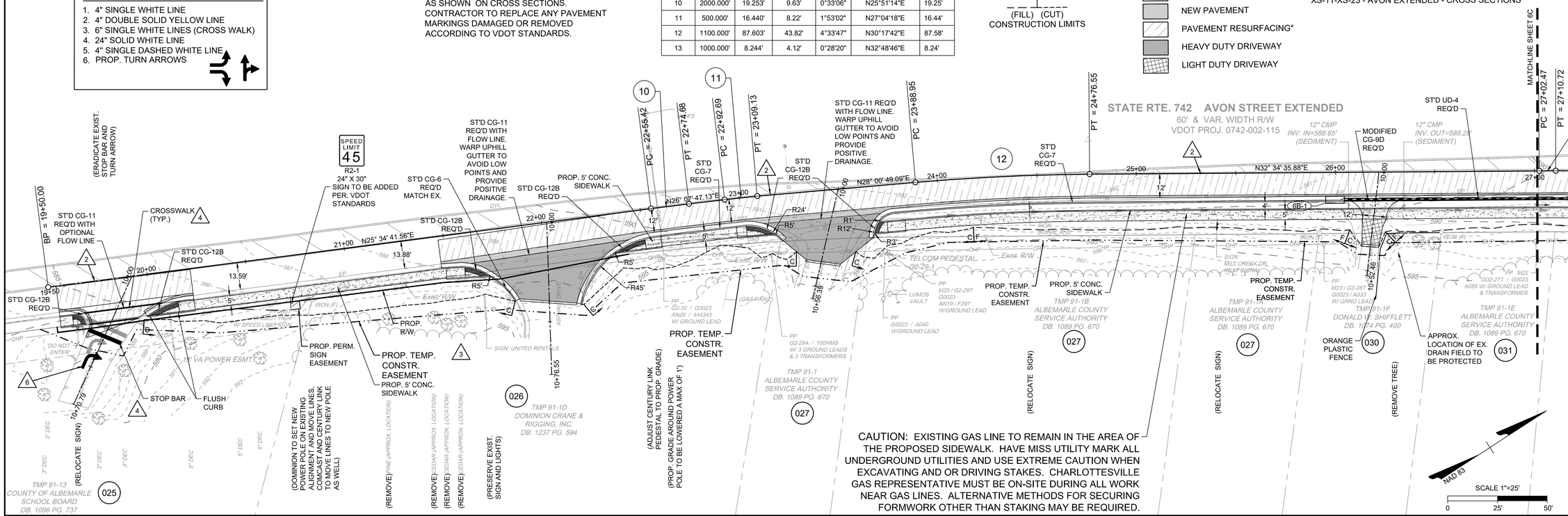
NEW PAVEMENT

PAVEMENT RESURFACING*

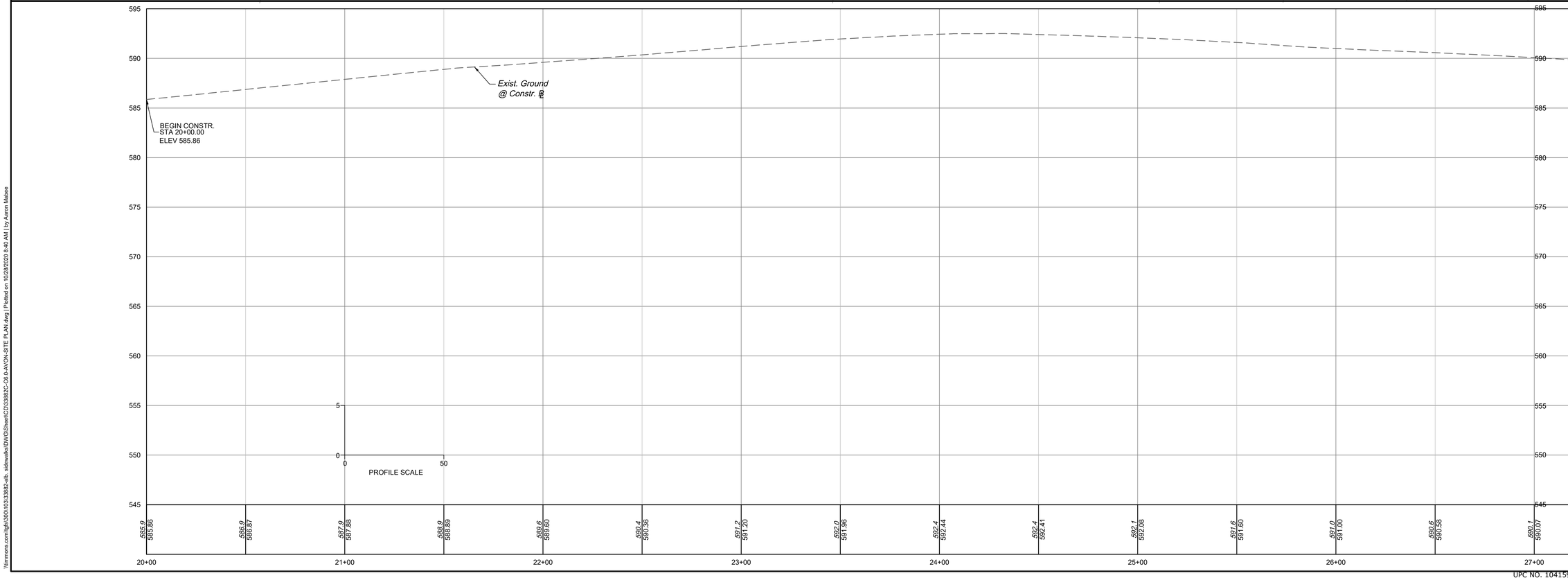
HEAVY DUTY DRIVEWAY

LIGHT DUTY DRIVEWAY

SHEET REFERENCES
2D - TYPICAL SECTIONS - AVON STREET EXTENDED
XS-11-XS-23 - AVON EXTENDED - CROSS SECTIONS



CAUTION: EXISTING GAS LINE TO REMAIN IN THE AREA OF THE PROPOSED SIDEWALK. HAVE MISS UTILITY MARK ALL UNDERGROUND UTILITIES AND USE EXTREME CAUTION WHEN EXCAVATING AND OR DRIVING STAKES. CHARLOTTESVILLE GAS REPRESENTATIVE MUST BE ON-SITE DURING ALL WORK NEAR GAS LINES. ALTERNATIVE METHODS FOR SECURING FORMWORK OTHER THAN STAKING MAY BE REQUIRED.



UPC NO. 104159

IFB 2021-12012-35

COMMONWEALTH OF VIRGINIA
Jonathan M. Showalter
JONATHAN M. SHOWALTER
Lic. No. 0402057151
10/28/2020
PROFESSIONAL ENGINEER

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DATE
10/28/2020
DRAWN BY
J. SHOWALTER
DESIGNED BY
J. SHOWALTER
CHECKED BY
J. HASH
SCALE
1" = 25'

TIMMONS GROUP

ALBEMARLE COUNTY SIDEWALKS
COUNTY OF ALBEMARLE, VIRGINIA
AVON EXTENDED SITE PLAN

JOB NO. 33882.005
SHEET NO. 6B

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\\timmons.com\tgh\JOB\103\33882-alb. sidewalks\SW\GS\sheet\CD\33882C-C6.0-AVON-SITE PLAN.dwg | Plotted on 10/28/2020 8:40 AM | by Aaron Mabee

NOTES:

1. THIS RIGHT OF WAY SHEET REPRESENTS A FIELD-RUN PERIMETER SURVEY OF THE PROPOSED R/W LIMITS. ALL ADJOINING / DEPARTING BOUNDARY LINES SHOWN FROM EXISTING R/W ARE COMPILED FROM VARIOUS SOURCES: FOUND RECORD DOCUMENTATION, METES AND BOUNDS DESCRIPTIONS, AND PLATS OF RECORD. THE ADJOINING LINES DO NOT REPRESENT A FIELD-RUN BOUNDARY SURVEY OF THE ADJOINING PROPERTIES AND ARE DELINEATED BASED ON COMPILED DATA. ALL AREAS SHOWN FOR EASEMENT TAKES ARE APPROXIMATE ONLY.

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R/W PLANS

COMMONWEALTH OF VIRGINIA
JOSEPH C. MEDLEY
Lic. No. 3385
LAND SURVEYOR

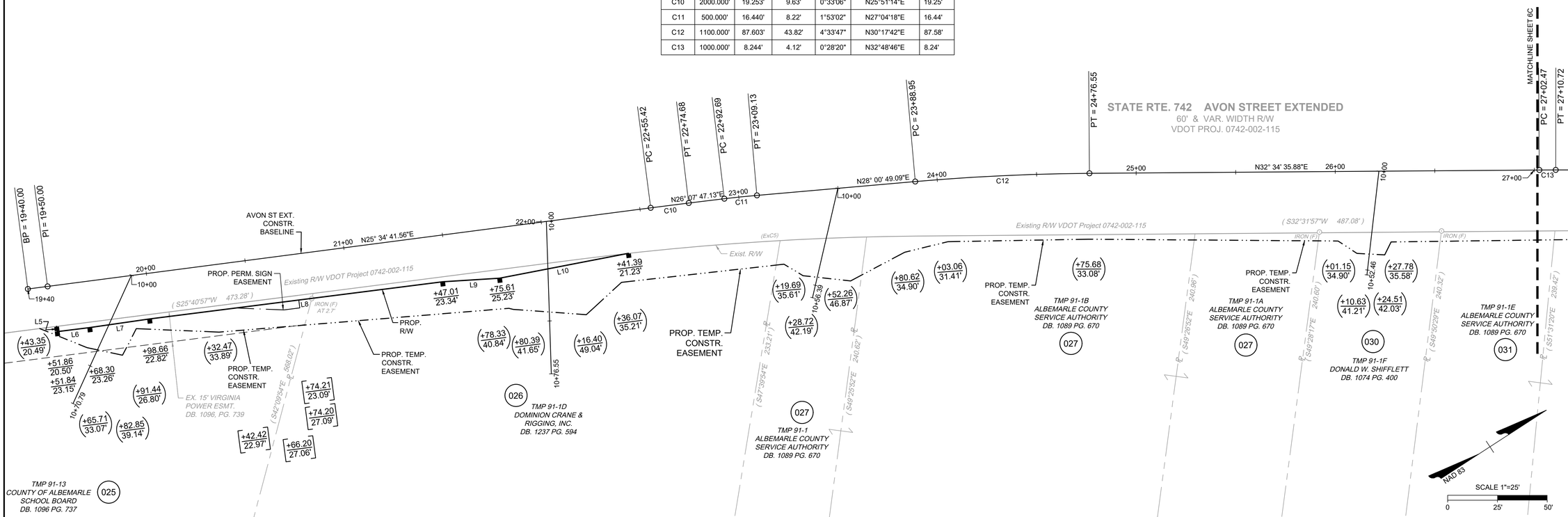
TIMMONS GROUP
Richmond, Virginia
LAND SURVEYOR

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.	(STATE)742	0000-002-R78, R201	6B-RW

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

CURVE TABLE

CURVE	RADIUS	LENGTH	TANGENT	DELTA	CHORD BEARING	CHORD
C10	2000.000'	19.253'	9.63'	0°33'06"	N25°51'14"E	19.25'
C11	500.000'	16.440'	8.22'	1°53'02"	N27°04'18"E	16.44'
C12	1100.000'	87.603'	43.82'	4°33'47"	N30°17'42"E	87.58'
C13	1000.000'	8.244'	4.12'	0°28'20"	N32°48'46"E	8.24'



PROPOSED RIGHT-OF-WAY

LINE TABLE

LINE	LENGTH	BEARING
L5	2.64	S64°02'25"E
L6	16.46	N25°57'35"E
L7	30.36	N24°45'23"E
L8	148.36	N25°46'47"E
L9	28.66	N29°21'48"E
L10	65.90	N22°05'36"E

EXISTING RIGHT OF WAY / BOUNDARY

CURVE TABLE

CURVE	*RADIUS*	*LENGTH*	*TANGENT*	*DELTA*	*CHORD BEARING*	*CHORD*
(ExC5)	*1417.39'*	*169.46'*	*84.83'*	*6°51'00"*	*S29°06'27"W*	*169.36'*

PARCEL NO.	TAX MAP NO.	LANDOWNER	APPROXIMATE AREAS		
			R/W TAKE	EASEMENTS	
				PERMANENT	TEMPORARY
				SIGN EASEMENT	CONSTR.
			SQ. FT	SQ. FT.	SQ. FT.
025	91-13	COUNTY OF ALBEMARLE SCHOOL BOARD	310	80	1184
026	91-1D	DOMINION CRANE & RIGGING, INC.	404	0	3765
027	91-1	ALBEMARLE COUNTY SERVICE AUTHORITY	0	0	796
027	91-1B	ALBEMARLE COUNTY SERVICE AUTHORITY	0	0	716
027	91-1A	ALBEMARLE COUNTY SERVICE AUTHORITY	0	0	222
030	91-1F	DONALD W. SHIFFLETT	0	0	408
031	91-1E	ALBEMARLE COUNTY SERVICE AUTHORITY	0	0	264
031	91-1A	ALBEMARLE COUNTY SERVICE AUTHORITY	0	0	1187

SYMBOL LEGEND

■ *Prop. Right of Way Monument (St'd RM-2)*

+00.00 / 00.00' *Proposed Right of Way*

(+00.00 / 00.00') *Prop. Temporary (Constr.) Esmt.*

[+00.00 / 00.00'] *Proposed Permanent Esmt.*

UPC NO. 104159

IFB 2021-12012-35

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TIMMONS GROUP

REVISION DESCRIPTION

DATE

DATE 10/28/20 -

DRAWN BY J. MEDLEY

DESIGNED BY -

CHECKED BY -

SCALE 1" = 25'

ALBEMARLE COUNTY SIDEWALKS
COUNTY OF ALBEMARLE, VIRGINIA
AVON EXTENDED SITE PLAN

JOB NO. 33882.005

SHEET NO. 6B-RW

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Y:\80433882.005-Albemarle_ROW\DWG\ROW_plan_Avonn104169_AVN_rw.dwg | Plotted on 10/28/2020 11:41 AM | by Joe Medley

STRIPING LEGEND

1. 4" SINGLE WHITE LINE
2. 4" DOUBLE SOLID YELLOW LINE
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5. 4" SINGLE DASHED WHITE LINE
6. PROP. TURN ARROWS

ROAD CURVE TABLE

CURVE	RADIUS	LENGTH	TANGENT	DELTA	CHORD BEARING	CHORD
14	1000.000'	8.570'	4.29'	0°29'28"	N32°48'12"E	8.57'
15	2000.000'	10.473'	5.24'	0°18'00"	N32°42'29"E	10.47'
16	2000.000'	11.236'	5.62'	0°19'19"	N32°41'49"E	11.24'

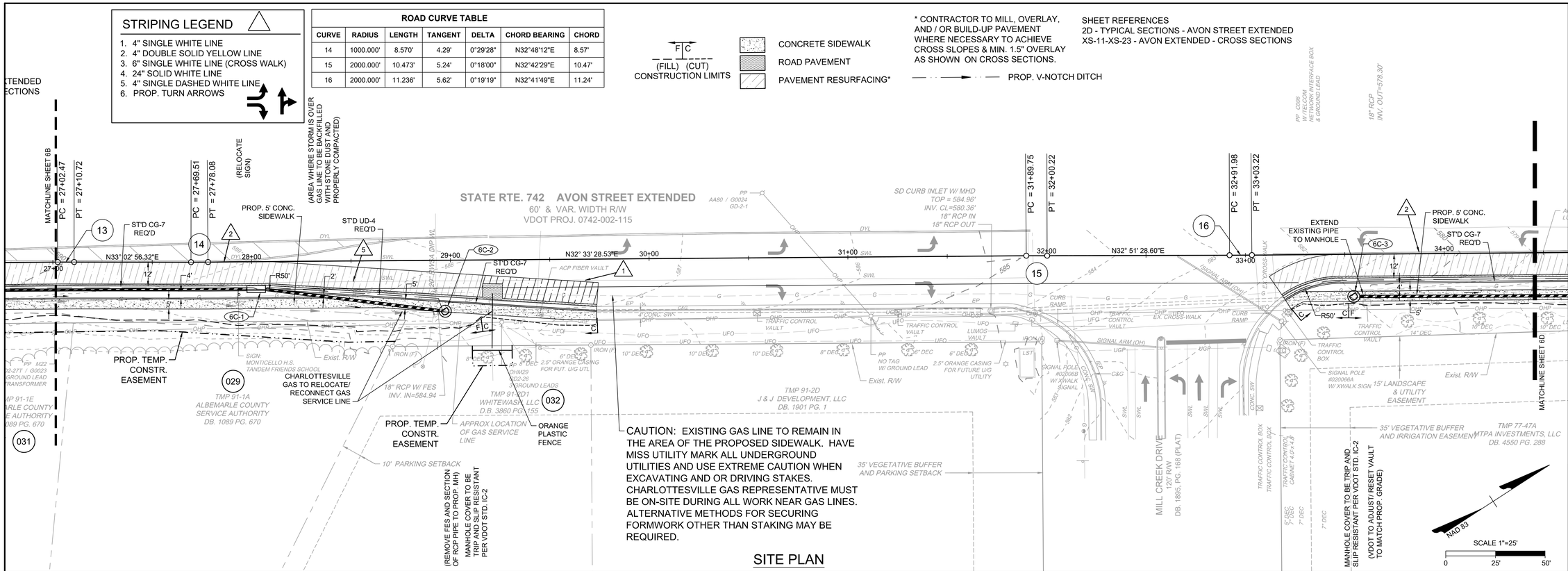
F C
(FILL) (CUT)
CONSTRUCTION LIMITS

CONCRETE SIDEWALK
ROAD PAVEMENT
PAVEMENT RESURFACING*

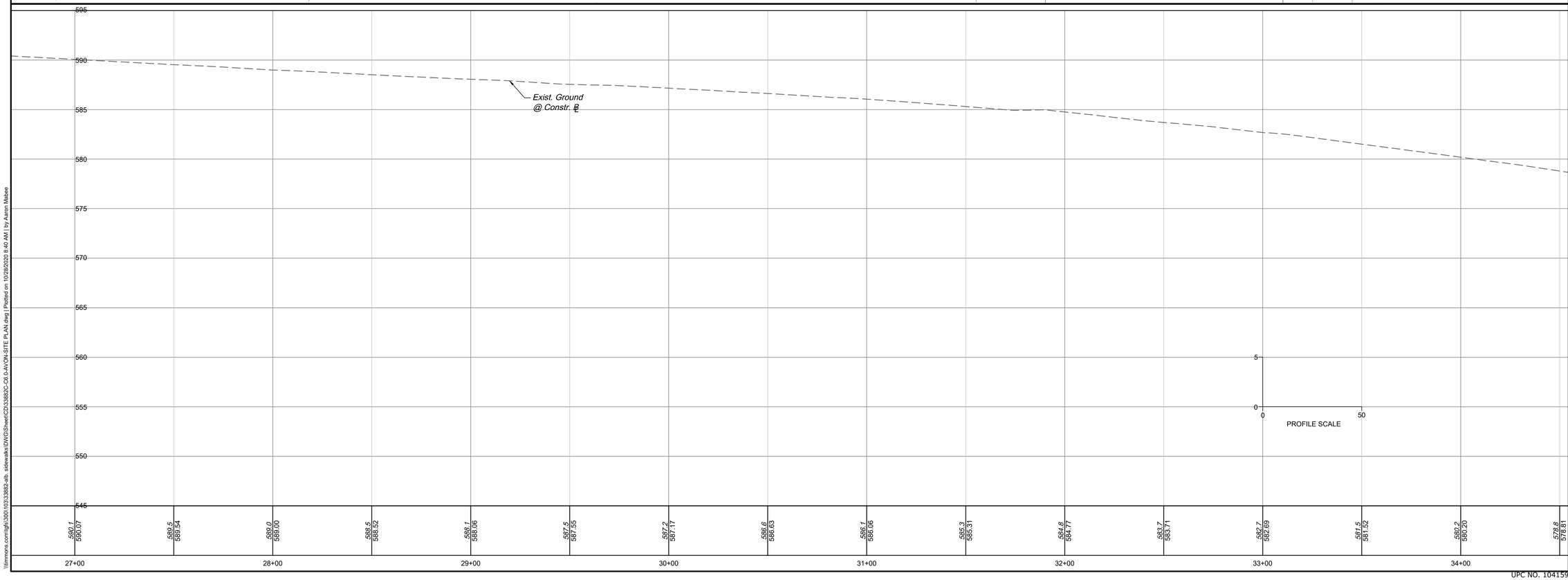
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PROP. V-NOTCH DITCH

SHEET REFERENCES
2D - TYPICAL SECTIONS - AVON STREET EXTENDED
XS-11-XS-23 - AVON EXTENDED - CROSS SECTIONS



SITE PLAN



COMMONWEALTH OF VIRGINIA
Jonathan M. Showalter
JONATHAN M. SHOWALTER
Lic. No. 0402057151
10/28/2020
PROFESSIONAL ENGINEER

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10/28/2020
DRAWN BY
J. SHOWALTER
DESIGNED BY
J. SHOWALTER
CHECKED BY
J. HASH
SCALE
1" = 25'

TIMMONS GROUP

ALBEMARLE COUNTY SIDEWALKS
COUNTY OF ALBEMARLE, VIRGINIA
AVON EXTENDED SITE PLAN

JOB NO. 33882.005
SHEET NO. 6C

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IFB 2021-12012-35

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R/W PLANS

COMMONWEALTH OF VIRGINIA
JOSEPH C. MEDLEY
Lic. No. 3385
LAND SURVEYOR

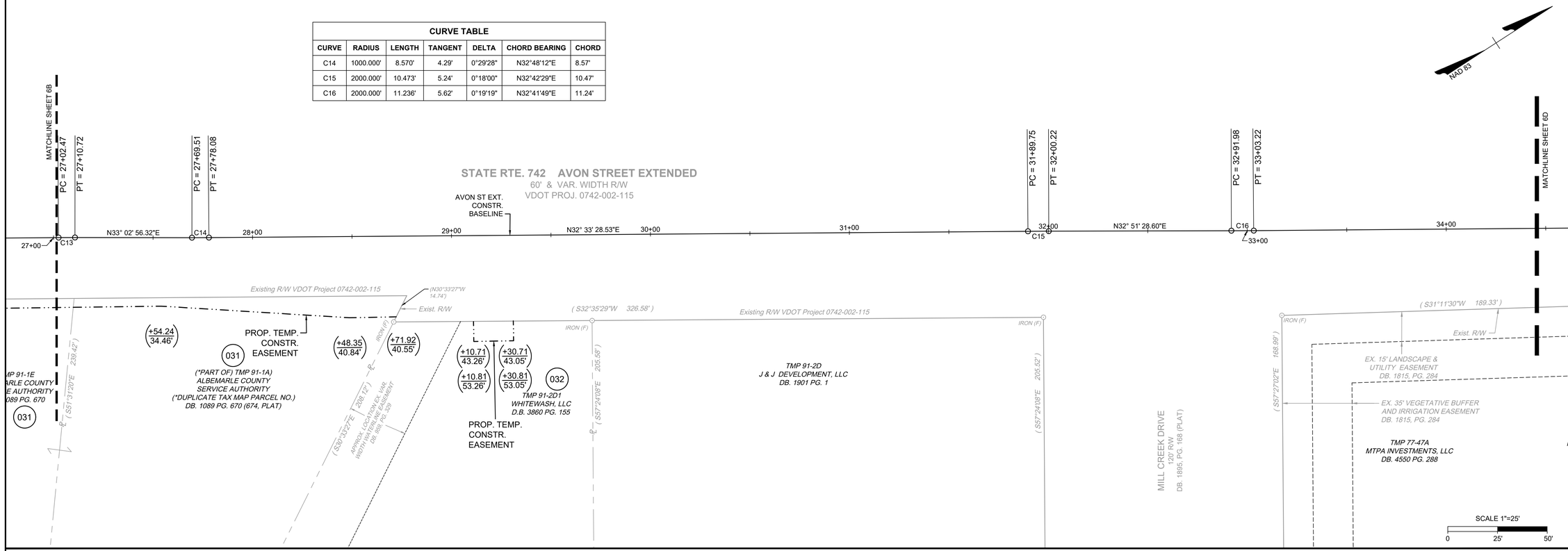
TIMMONS GROUP
Richmond, Virginia
LAND SURVEYOR

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.	(STATE)742	0000-002-R78, R201	6C-RW

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

CURVE TABLE

CURVE	RADIUS	LENGTH	TANGENT	DELTA	CHORD BEARING	CHORD
C14	1000.000'	8.570'	4.29'	0°29'28"	N32°48'12"E	8.57'
C15	2000.000'	10.473'	5.24'	0°18'00"	N32°42'29"E	10.47'
C16	2000.000'	11.236'	5.62'	0°19'19"	N32°41'49"E	11.24'



PARCEL NO.	TAX MAP NO.	LANDOWNER	APPROXIMATE AREAS		
			R/W TAKE	EASEMENTS	
				PERMANENT	TEMPORARY
				SIGN EASEMENT	CONSTR.
			SQ. FT	SQ. FT.	SQ. FT.
031	91-1A	ALBEMARLE COUNTY SERVICE AUTHORITY	0	0	1187
032	91-2D1	WHITEWASH, LLC	0	0	200

SYMBOL LEGEND

- ■ *Prop. Right of Way Monument (St'd RM-2)*
- +00.00 / 00.00' *Proposed Right of Way*
- (+00.00 / 00.00') *Prop. Temporary (Constr.) Esmt.*
- [+00.00 / 00.00'] *Proposed Permanent Esmt.*

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YOUR VISION ACHIEVED THROUGH OURS.

REVISION DESCRIPTION

DATE

DATE 10/28/20

DRAWN BY J. MEDLEY

DESIGNED BY -

CHECKED BY -

SCALE 1" = 25'

TIMMONS GROUP

ALBEMARLE COUNTY SIDEWALKS
COUNTY OF ALBEMARLE, VIRGINIA
AVON EXTENDED SITE PLAN

JOB NO. 33882.005

SHEET NO. 6C-RW

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Y:\804\33882.005-Albemarle_-_ROW\DWG\ROW_plan_Avon\104159_AVN_rw.dwg | Plotted on 10/28/2020 11:44 AM | by Joe Medley

IFB 2021-12012-35

STRIPING LEGEND

1. 4" SINGLE WHITE LINE
2. 4" DOUBLE SOLID YELLOW LINE
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4. 24" SOLID WHITE LINE
5. 4" SINGLE DASHED WHITE LINE
6. PROP. TURN ARROWS

F C
(FILL) (CUT)
CONSTRUCTION LIMITS

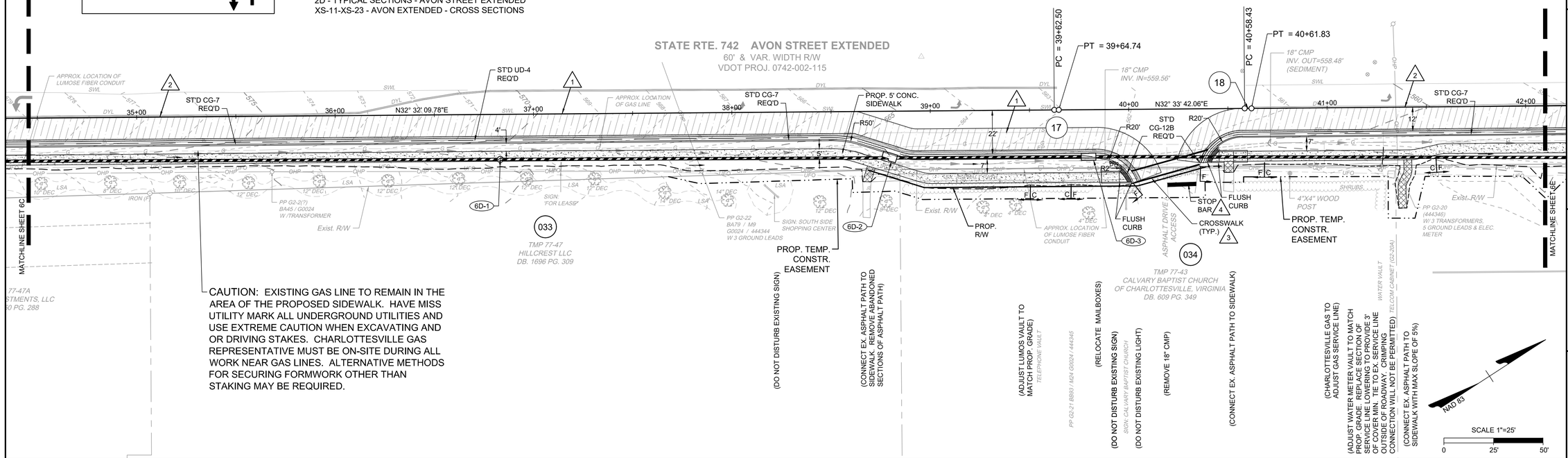
ASPHALT PATH (SEE LIGHT DUTY DRIVEWAY SECTION)
CONCRETE SIDEWALK
ROAD PAVEMENT
PAVEMENT RESURFACING*

PROP. V-NOTCH DITCH

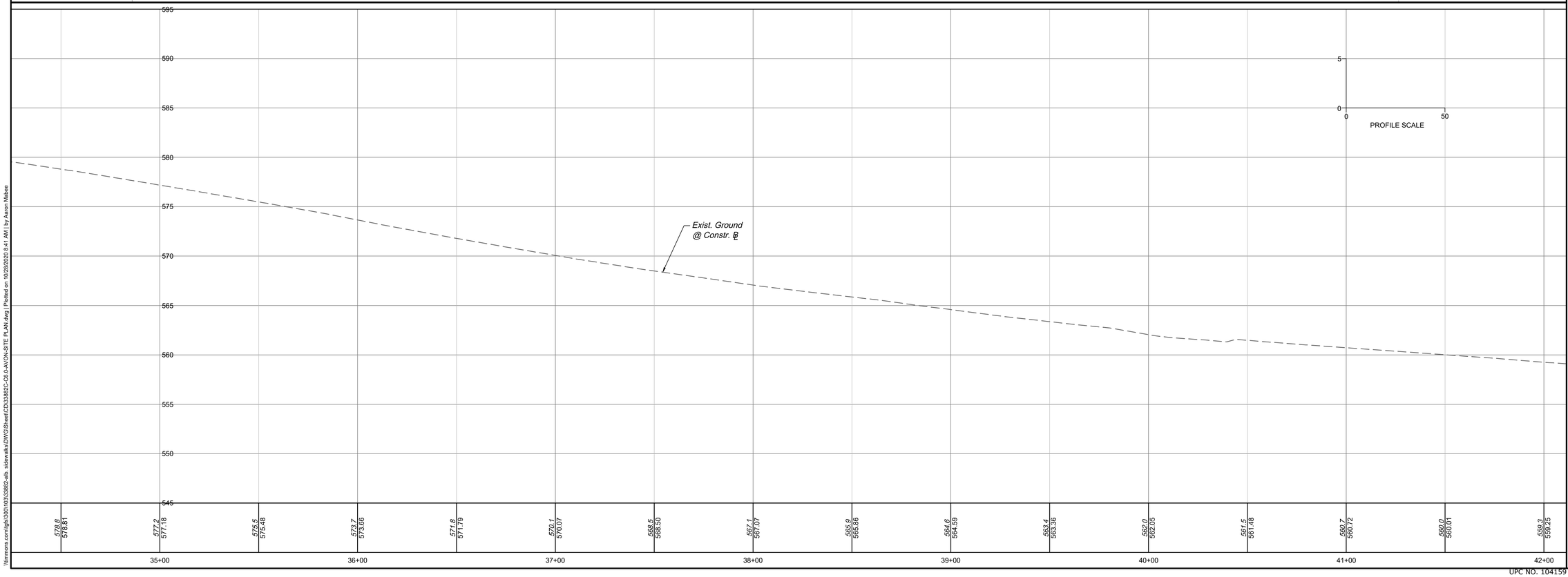
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SHEET REFERENCES
2D - TYPICAL SECTIONS - AVON STREET EXTENDED
XS-11-XS-23 - AVON EXTENDED - CROSS SECTIONS

ROAD CURVE TABLE						
CURVE	RADIUS	LENGTH	TANGENT	DELTA	CHORD BEARING	CHORD
17	5000.046'	2.237'	1.12'	0°01'32"	N32°32'56"E	2.24'
18	4999.995'	3.404'	1.70'	0°02'20"	N32°32'32"E	3.40'



CAUTION: EXISTING GAS LINE TO REMAIN IN THE AREA OF THE PROPOSED SIDEWALK. HAVE MISS UTILITY MARK ALL UNDERGROUND UTILITIES AND USE EXTREME CAUTION WHEN EXCAVATING AND OR DRIVING STAKES. CHARLOTTESVILLE GAS REPRESENTATIVE MUST BE ON-SITE DURING ALL WORK NEAR GAS LINES. ALTERNATIVE METHODS FOR SECURING FORMWORK OTHER THAN STAKING MAY BE REQUIRED.



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Lic. No. 0402057151
10/28/2020
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1" = 25'

TIMMONS GROUP

ALBEMARLE COUNTY SIDEWALKS
COUNTY OF ALBEMARLE, VIRGINIA
AVON EXTENDED SITE PLAN

JOB NO.
33882.005
SHEET NO.
6D

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\\timmons.com\tgh\JOO\103\33882-alb. sidewalks\SW\GS\sheet\CD\33882C-C6.0-AVON-SITE PLAN.dwg | Plotted on 10/28/2020 8:41 AM | by Aaron Mabee

UPC NO. 104159

IFB 2021-12012-35

NOTES:

1. THIS RIGHT OF WAY SHEET REPRESENTS A FIELD-RUN PERIMETER SURVEY OF THE PROPOSED R/W LIMITS. ALL ADJOINING / DEPARTING BOUNDARY LINES SHOWN FROM EXISTING R/W ARE COMPILED FROM VARICUS SOURCES: FOUND RECORD DOCUMENTATION, METES AND BOUNDS DESCRIPTIONS, AND PLATS OF RECORD. THE ADJOINING LINES DO NOT REPRESENT A FIELD-RUN BOUNDARY SURVEY OF THE ADJOINING PROPERTIES AND ARE DELINEATED BASED ON COMPILED DATA. ALL AREAS SHOWN FOR EASEMENT TAKES ARE APPROXIMATE ONLY.

2. THIS PLAN SHEET WAS PREPARED WITHOUT THE BENEFIT OF AT TITLE REPORT AND MAY NOT SHOW ALL EASEMENTS WHICH MAY AFFECT THE PROPERTY(IES) SHOWN HEREON.

3. NO CONTEMPORARY DESIGNATION OR LOCATION OF SUBSURFACE UTILITIES WAS PERFORMED DURING PREPARATION OF THIS PLAT.

4. PHYSICAL IMPROVEMENTS ARE NOT SHOWN HEREON.

5. THIS IS NOT A BOUNDARY SURVEY. PROPERTY INFORMATION SHOWN HEREON IS BASED ON COMPILATION OF LAND RECORDS AND PHYSICAL EVIDENCE INCIDENTAL TO CORRIDOR SURVEY.

6. BEARINGS AND DISTANCES IN PARENTHESIS ARE RECORD PLAT DATA.

7. MONUMENTATION TO BE SET UPON COMPLETION OF CONSTRUCTION.

NOTE : ALL PLUSES ARE REFERENCED FROM CONSTRUCTION BASELINE & CONNECTION BASELINE UNLESS NOTED OTHERWISE.

NOTE : FIGURES IN BRACKETS AND DOT - DASHED LINES DENOTE PERMANENT EASEMENTS.

NOTE : FIGURES IN PARENTHESIS AND DOT - DOT - DASHED LINES DENOTE TEMPORARY EASEMENTS.

R/W PLANS

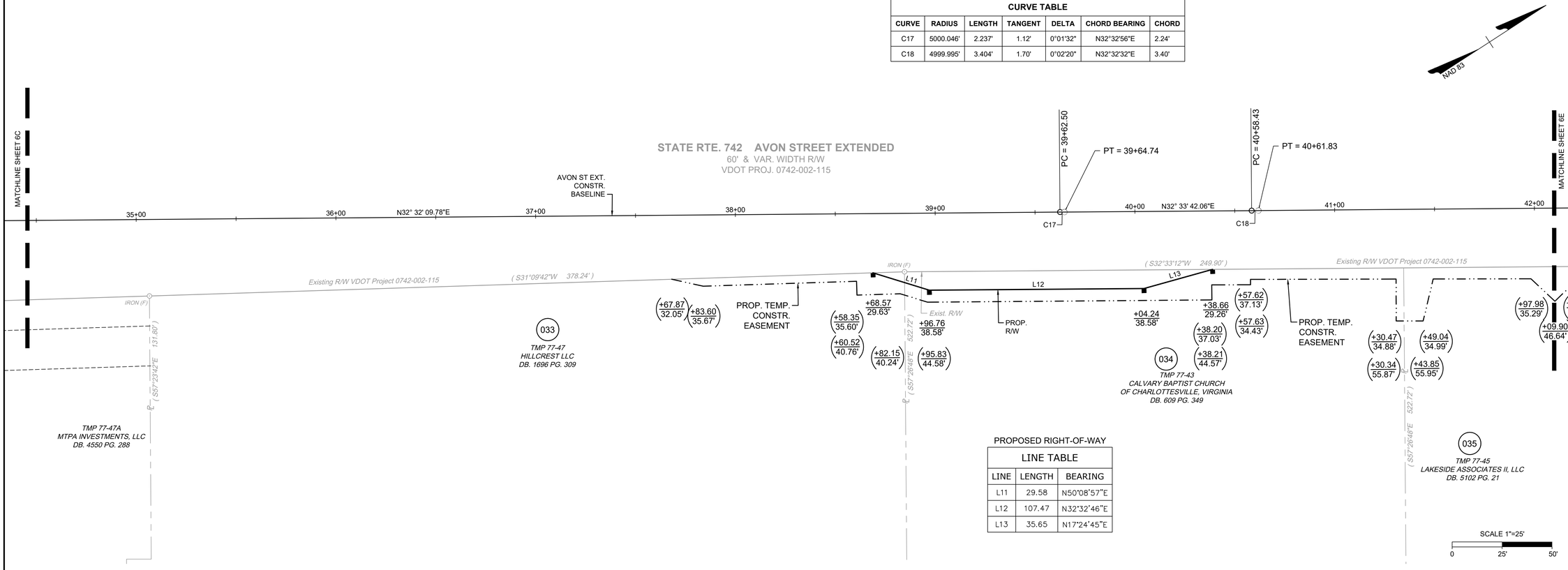
COMMONWEALTH OF VIRGINIA
JOSEPH C. MEDLEY
Lic. No.3385
LAND SURVEYOR

TIMMONS GROUP
Richmond, Virginia
LAND SURVEYOR

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.	(STATE)742	0000-002-R78, R201	6D-RW

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

CURVE TABLE						
CURVE	RADIUS	LENGTH	TANGENT	DELTA	CHORD BEARING	CHORD
C17	5000.046'	2.237'	1.12'	0°01'32"	N32°32'56"E	2.24'
C18	4999.995'	3.404'	1.70'	0°02'20"	N32°32'32"E	3.40'



PROPOSED RIGHT-OF-WAY

LINE TABLE		
LINE	LENGTH	BEARING
L11	29.58	N50°08'57"E
L12	107.47	N32°32'46"E
L13	35.65	N17°24'45"E

			APPROXIMATE AREAS		
				EASEMENTS	
PARCEL NO.	TAX MAP NO.	LANDOWNER	R/W TAKE	PERMANENT	TEMPORARY
				SIGN EASEMENT	CONSTR.
			SQ. FT	SQ. FT.	SQ. FT.
033	77-47	HILLCREST, LLC	43	0	559
034	77-43	CALVARY BAPTIST CHURCH OF CHARLOTTESVILLE, VIRGINIA	1253	0	1729
035	77-45	LAKESIDE ASSOCIATES II, LLC	2455	0	3811

SYMBOL LEGEND

- ■ *Prop. Right of Way Monument (St'd RM-2)*
- +00.00 / 00.00' *Proposed Right of Way*
- (+00.00 / 00.00') *Prop. Temporary (Constr.) Esmt.*
- [+00.00 / 00.00'] *Proposed Permanent Esmt.*

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REVISION DESCRIPTION

DATE

DATE 10/28/20

DRAWN BY J. MEDLEY

DESIGNED BY -

CHECKED BY -

SCALE 1" = 25'

TIMMONS GROUP

ALBEMARLE COUNTY SIDEWALKS
COUNTY OF ALBEMARLE, VIRGINIA
AVON EXTENDED SITE PLAN

JOB NO. 33882.005

SHEET NO. 6D-RW

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V:\33882.005-Albemarle_RCWDWG\ROW_plan_Avon\104159_AVN_rw.dwg | Plotted on 10/28/2020 11:46 AM | by Joe Medley

UPC NO. 104159

IFB 2021-12012-35

ROAD CURVE TABLE						
CURVE	RADIUS	LENGTH	TANGENT	DELTA	CHORD BEARING	CHORD
19	1000.000'	43.962'	21.98'	2°31'08"	N33°46'56"E	43.96'
20	2400.000'	85.384'	42.70'	2°02'18"	N34°01'20"E	85.38'

F C
(FILL) (CUT)
CONSTRUCTION LIMITS

CONCRETE SIDEWALK
NEW PAVEMENT
PAVEMENT RESURFACING*

* CONTRACTOR TO MILL, OVERLAY, AND / OR BUILD-UP PAVEMENT WHERE NECESSARY TO ACHIEVE CROSS SLOPES & MIN. 1.5" OVERLAY AS SHOWN ON CROSS SECTIONS.

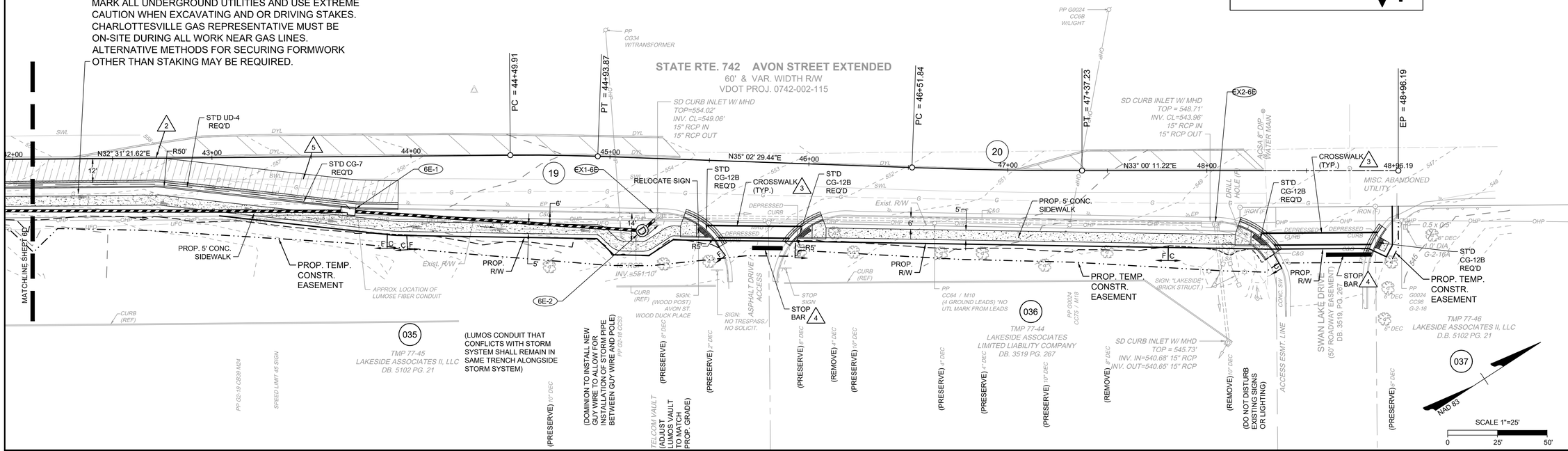
PROP. V-NOTCH DITCH

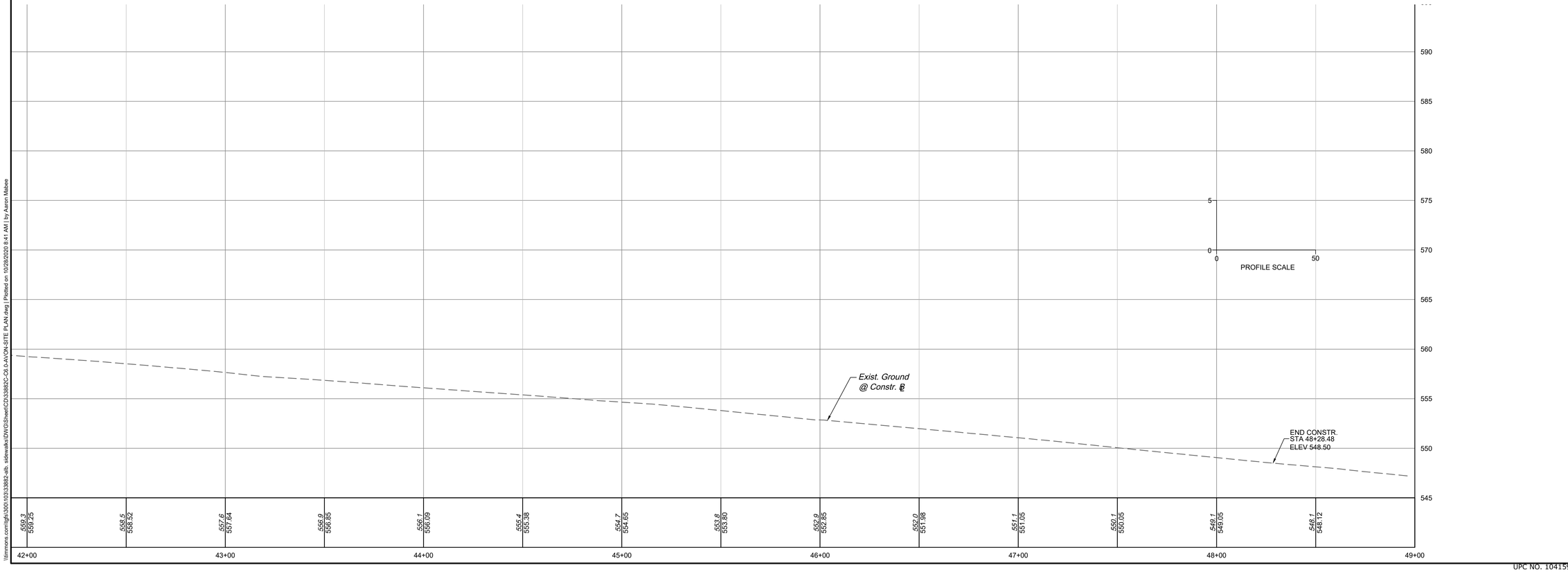
SHEET REFERENCES
2D - TYPICAL SECTIONS - AVON STREET EXTENDED
XS-11-XS-23 - AVON EXTENDED - CROSS SECTIONS

STRIPING LEGEND

1. 4" SINGLE WHITE LINE
2. 4" DOUBLE SOLID YELLOW LINE
3. 6" SINGLE WHITE LINE (CROSS WALK)
4. 24" SOLID WHITE LINE
5. 4" SINGLE DASHED WHITE LINE
6. PROP. TURN ARROWS

CAUTION: EXISTING GAS LINE TO REMAIN IN THE AREA OF THE PROPOSED SIDEWALK. HAVE MISS UTILITY MARK ALL UNDERGROUND UTILITIES AND USE EXTREME CAUTION WHEN EXCAVATING AND OR DRIVING STAKES. CHARLOTTESVILLE GAS REPRESENTATIVE MUST BE ON-SITE DURING ALL WORK NEAR GAS LINES. ALTERNATIVE METHODS FOR SECURING FORMWORK OTHER THAN STAKING MAY BE REQUIRED.





COMMONWEALTH OF VIRGINIA
JONATHAN M. SHOWALTER
Lic. No. 0402057151
10/28/2020
PROFESSIONAL ENGINEER

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DATE
10/28/2020
DRAWN BY
J. SHOWALTER
DESIGNED BY
J. SHOWALTER
CHECKED BY
J. HASH
SCALE
1" = 25'

TIMMONS GROUP

ALBEMARLE COUNTY SIDEWALKS
COUNTY OF ALBEMARLE, VIRGINIA
AVON EXTENDED SITE PLAN

JOB NO.
33882.005
SHEET NO.
6E

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IFB 2021-12012-35

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NOTES:

1. THIS RIGHT OF WAY SHEET REPRESENTS A FIELD-RUN PERIMETER SURVEY OF THE PROPOSED R/W LIMITS. ALL ADJOINING / DEPARTING BOUNDARY LINES SHOWN FROM EXISTING R/W ARE COMPILED FROM VARICUS SOURCES: FOUND RECORD DOCUMENTATION, METES AND BOUNDS DESCRIPTIONS, AND PLATS OF RECORD. THE ADJOINING LINES DO NOT REPRESENT A FIELD-RUN BOUNDARY SURVEY OF THE ADJOINING PROPERTIES AND ARE DELINEATED BASED ON COMPILED DATA. ALL AREAS SHOWN FOR EASEMENT TAKES ARE APPROXIMATE ONLY.

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NOTE : FIGURES IN PARENTHESIS AND DOT - DOT - DASHED LINES DENOTE TEMPORARY EASEMENTS.

R/W PLANS

COMMONWEALTH OF VIRGINIA
JOSEPH C. MEDLEY
Lic. No. 3385
LAND SURVEYOR

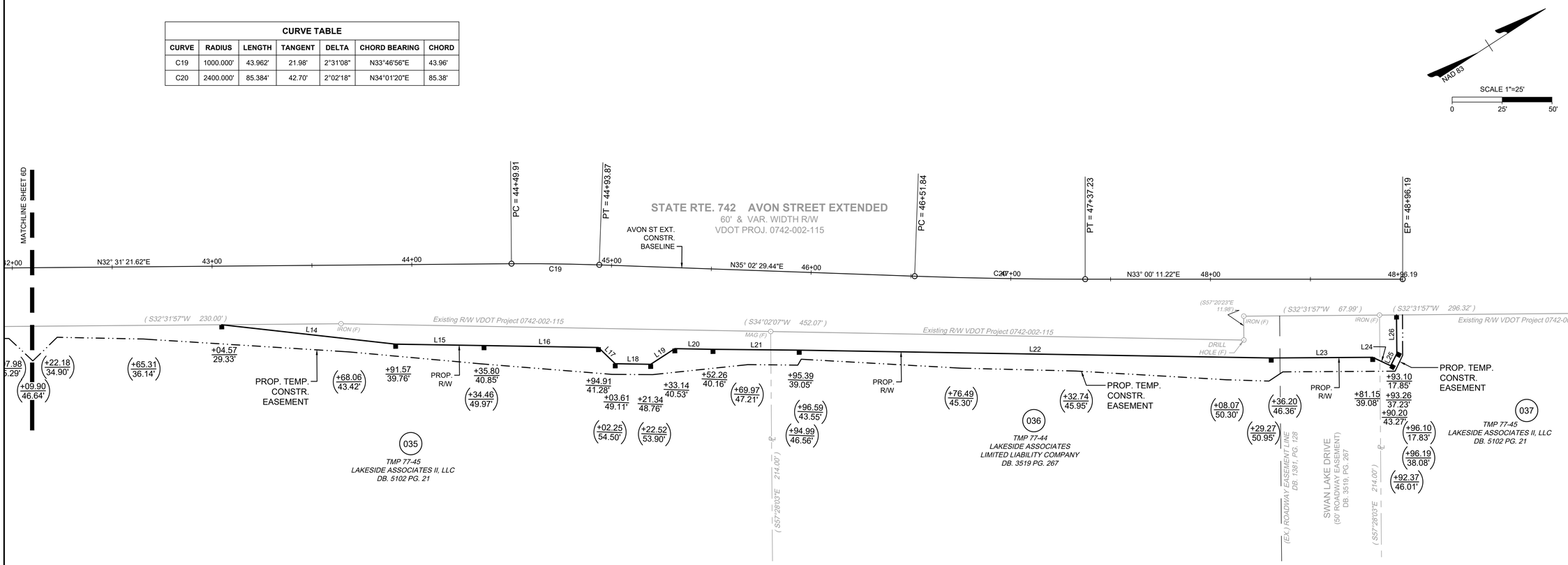
TIMMONS GROUP
Richmond, Virginia
LAND SURVEYOR

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.	(STATE)742	0000-002-R78, R201	6E-RW

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CURVE TABLE

CURVE	RADIUS	LENGTH	TANGENT	DELTA	CHORD BEARING	CHORD
C19	1000.000'	43.962'	21.98'	2°31'08"	N33°46'56"E	43.96'
C20	2400.000'	85.384'	42.70'	2°02'18"	N34°01'20"E	85.38'



PROPOSED RIGHT-OF-WAY

LINE TABLE

LINE	LENGTH	BEARING
L14	87.62	N39°21'40"E
L15	44.25	N33°55'37"E
L16	57.30	N33°55'37"E
L17	11.70	N77°02'44"E
L18	17.74	N33°55'37"E
L19	14.39	N0°08'20"E
L20	19.11	N33°55'37"E
L21	43.15	N33°33'34"E
L22	236.35	N33°56'55"E
L23	50.78	N32°38'37"E
L24	9.98	N57°53'01"E
L25	6.77	N30°11'12"W
L26	19.38	N57°28'03"W

PARCEL NO.	TAX MAP NO.	LANDOWNER	APPROXIMATE AREAS: R/W TAKE	EASEMENTS: PERMANENT SIGN EASEMENT	EASEMENTS: TEMPORARY CONSTR.
			SQ. FT	SQ. FT.	SQ. FT.
035	77-45	LAKESIDE ASSOCIATES II, LLC	2455	0	3811
036	77-44	LAKESIDE ASSOCIATES LIMITED LIABILITY COMPANY	3540	0	2432
037	77-46	LAKESIDE ASSOCIATES II, LLC	200	0	107

SYMBOL LEGEND

- ■ *Prop. Right of Way Monument (St'd RM-2)*
- +00.00 / 00.00' *Proposed Right of Way*
- (+00.00 / 00.00') *Prop. Temporary (Constr.) Esmt.*
- [+00.00 / 00.00'] *Proposed Permanent Esmt.*

UPC NO. 104159

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TIMMONS GROUP

REVISION DESCRIPTION

DATE

DATE 10/28/20

DRAWN BY J. MEDLEY

DESIGNED BY -

CHECKED BY -

SCALE 1" = 25'

ALBEMARLE COUNTY SIDEWALKS
COUNTY OF ALBEMARLE, VIRGINIA
AVON EXTENDED SITE PLAN

JOB NO. 33882.005

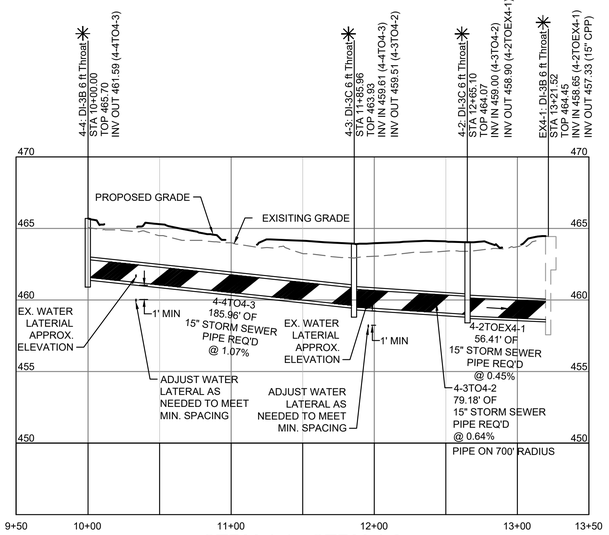
SHEET NO. 6E-RW

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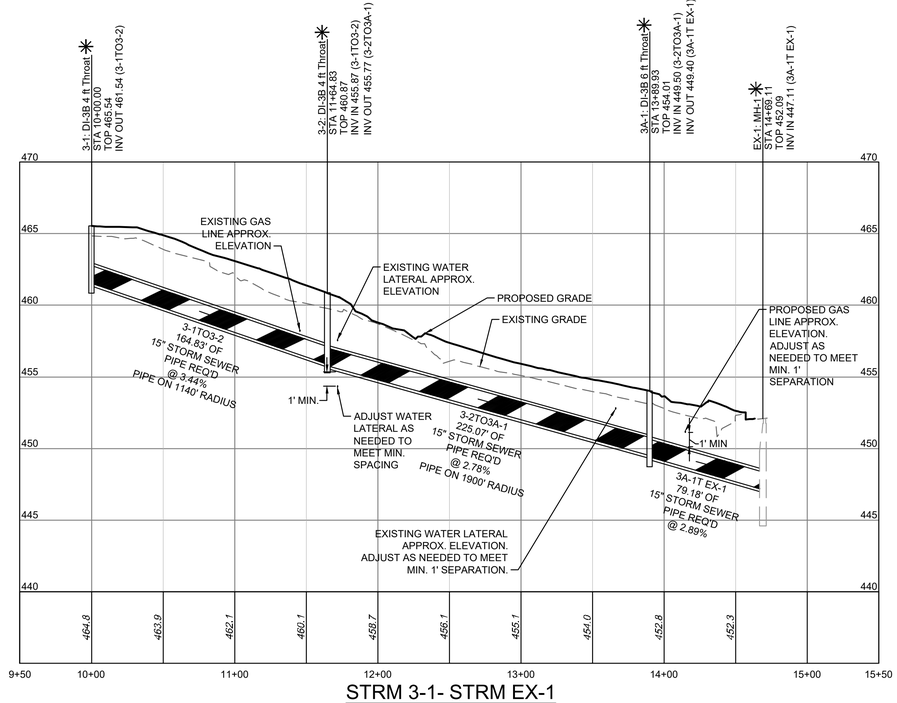
Y:\90433882.005-Albemarle_ROW\DWG\ROW_plan_Avon\104159_AVN_rw.dwg | Plotted on 10/28/2020 11:48 AM | by Joe Medley

NOTES:
1. STD. IS-1 INVERT SHAPING SHALL BE APPLIED TO ALL INLETS.
2. ALL PIPE AND STORM SEWER PIPE SHALL BE RCP CLASS III UNLESS OTHERWISE SPECIFIED IN THE PLANS.
3. ALL DROP INLET AND MANHOLE COVERS SHALL BE NON-SKID STEEL PLATES IN ACCORDANCE WITH STD. MH-1 (106.05) IN THE ROAD AND BRIDGE STANDARDS UNLESS OTHERWISE SPECIFIED WITH AN ASTERISK AS SHOWN BELOW.

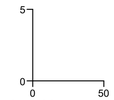
✳ INDICATES MANHOLE LIDS WHICH DO NOT REQUIRE THE NON-SKID STEEL PLATE TOP. ALTERNATIVE VDOT STANDARD TOP MAY BE USED.



STRM 4-1 - STRM 4-3
HORIZ SCALE: 1"=50'
VERT SCALE: 1"=5



STRM 3-1- STRM EX-1
HORIZ SCALE: 1"=50'
VERT SCALE: 1"=5



PROFILE SCALE

4-4 — 1 - ST'D. DI-3B (TYPE B NOSE)
TOP=465.70 H=4.11 (H>MIN.), L=6', INV.=461.59'
1 UD CONNECTION REQ'D.

4-4 — 4-3 — 185.96' - 15" STORM SEWER PIPE REQ'D
INV. IN - 461.59, INV. OUT - 459.61

4-3 — 1 - ST'D. DI-3C (TYPE B NOSE)
TOP=463.93 H=4.42 (H>MIN.), L=6', INV.=459.51
2 UD CONNECTION REQ'D.

4-3 — 4-2 — 79.18' - 15" STORM SEWER PIPE REQ'D
INV. IN - 459.51, INV. OUT - 459.00
PIPE ON 700' RADIUS

4-2 — 1 - ST'D. DI-3C (TYPE B NOSE)
TOP=464.07 H=5.17 (H>MIN.), L=6', INV.=458.90
2 UD CONNECTION REQ'D.

4-2 — EX4-1 — 56.41' - 15" STORM SEWER PIPE REQ'D
INV. IN - 458.90, INV. OUT - 458.65

EX4-1 — 1 - ST'D. DI-3B (TYPE B NOSE)
TOP=464.45 H=7.12 (H>MIN.), L=6', INV.=457.33

3-1 — 1 - ST'D. DI-3B (TYPE B NOSE)
TOP=465.54 H=4.0 (H>MIN.), L=4', INV.=461.54'
1 UD CONNECTION REQ'D.

3-1 — 3-2 — 164.83' - 15" STORM SEWER PIPE REQ'D
INV. IN - 461.54, INV. OUT - 455.87
PIPE ON 1140' RADIUS

3-2 — 1 - ST'D. DI-3B (TYPE B NOSE)
TOP=460.87 H=5.1 (H>MIN.), L=4', INV.=455.77
1 UD CONNECTION REQ'D.

3-2 — 3A-1 — 225.07' - 15" STORM SEWER PIPE REQ'D
INV. IN - 455.77, INV. OUT - 449.50
PIPE ON 1900' RADIUS

3A-1 — 1 - ST'D. DI-3B (TYPE B NOSE)
TOP=454.01 H=4.61 (H>MIN.), L=6', INV.=449.40
1 UD CONNECTION REQ'D.

3A-1 — EX-1 — 79.18' - 15" STORM SEWER PIPE REQ'D
INV. IN - 449.40, INV. OUT - 447.11

EX-1 — 1 - EXISTING MANHOLE
TOP=452.09 H=4.98 (H>MIN.), INV.=447.11
1 UD CONNECTION REQ'D.

COMMONWEALTH OF VIRGINIA
JONATHAN M. SHOWALTER
Lic. No. 0402057151
10/28/2020
PROFESSIONAL ENGINEER

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DATE
10/28/2020
DRAWN BY
J. SHOWALTER
DESIGNED BY
J. SHOWALTER
CHECKED BY
J. HASH
SCALE
1"=50'

TIMMONS GROUP

ALBEMARLE COUNTY SIDEWALKS
COUNTY OF ALBEMARLE, VIRGINIA
RIO ROAD SECTION 1 & 2 STORMWATER PROFILES

JOB NO.
33882.005
SHEET NO.
7

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UPC NO. 104159

NOTES:
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2. ALL PIPE AND STORM SEWER PIPE SHALL BE RCP CLASS III UNLESS OTHERWISE SPECIFIED IN THE PLANS.
3. ALL DROP INLET AND MANHOLE COVERS SHALL BE NON-SKID STEEL PLATES IN ACCORDANCE WITH STD. MH-1 (106.05) IN THE ROAD AND BRIDGE STANDARDS UNLESS OTHERWISE SPECIFIED WITH AN ASTERISK AS SHOWN BELOW.

✳ INDICATES MANHOLE LIDS WHICH DO NOT REQUIRE THE NON-SKID STEEL PLATE TOP. ALTERNATIVE VDOT STANDARD TOP MAY BE USED.

5A-1
1 - ST'D. DI-3C (TYPE A NOSE)
TOP=633.67 H=4.0 (H>MIN.), L=6', INV.=629.67'
1 UD CONNECTION REQ'D.

5A-1 — 5A-2
162.16' - 15" STORM SEWER PIPE REQ'D
INV. IN - 629.67, INV. OUT - 628.05

5A-2
1 - ST'D. DI-3B (TYPE A NOSE)
TOP=632.99 H=5.04 (H>MIN.), L=6', INV.=627.95
2 UD CONNECTION REQ'D.

5A-2 — 5A-3
12.87' - 15" STORM SEWER PIPE REQ'D
INV. IN - 627.95, INV. OUT - 627.82

5A-3
1 - ST'D. REPLACE INLET TOP WITH MANHOLE TOP
TOP=632.51 H=10.12 (H>MIN.), INV.=622.39
1 UD CONNECTION REQ'D.

5A-4
1 - ST'D. DI-3B (TYPE A NOSE)
TOP=634.45 H=4.0 (H>MIN.), L=6', INV.=630.45'
1 UD CONNECTION REQ'D.

5A-4 — 5A-5
10.77' - 15" STORM SEWER PIPE REQ'D
INV. IN - 630.45, INV. OUT - 630.05

5A-5
1 - ST'D. REPLACE INLET TOP WITH MANHOLE TOP
TOP=634.68 H=5.98 (H>MIN.), INV.=628.7
1 UD CONNECTION REQ'D.

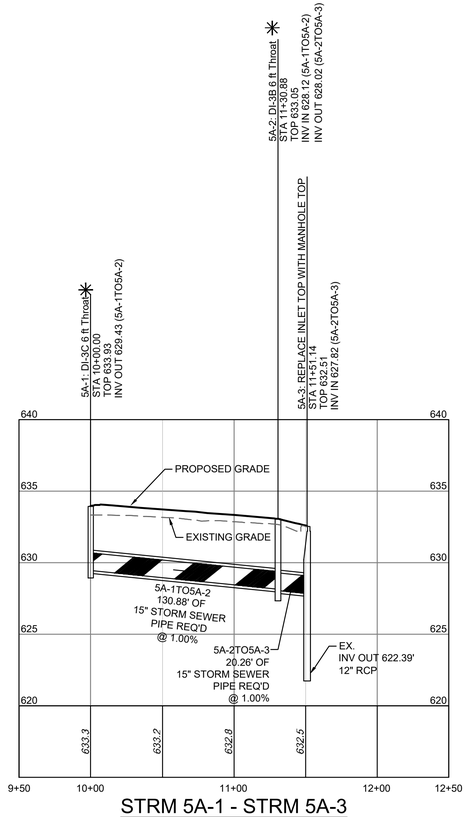
5
1 - ST'D. DI-5 1' DEEP V TOP
TOP=629.80 H=3.0 (H<MIN.), INV.=626.80'
1 UD CONNECTION REQ'D.

5 — 5-1
21.37' - 15" STORM SEWER PIPE REQ'D
INV. IN - 626.80, INV. OUT - 625.73

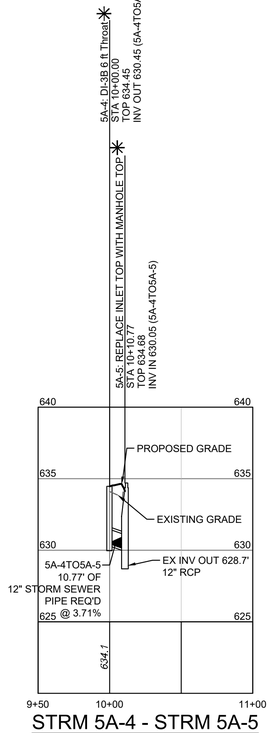
5-1
1 - ST'D. MH1
TOP=628.68 H=3.34 (H<MIN.), INV.=625.34
2 UD CONNECTION REQ'D.

5-1 — 5-2
34.11' - 15" STORM SEWER PIPE REQ'D
INV. IN - 625.34, INV. OUT - 625.00

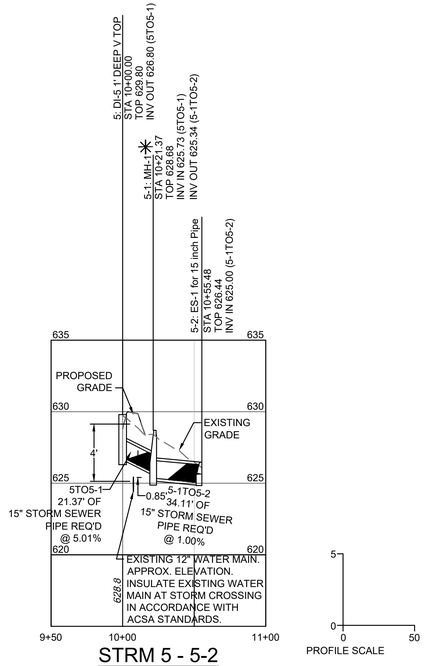
5-2
1 - ST'D. 15" ES-1
TOP=626.44, INV.=625.00



STRM 5A-1 - STRM 5A-3
HORIZ SCALE: 1"=50'
VERT SCALE: 1"=5



STRM 5A-4 - STRM 5A-5
HORIZ SCALE: 1"=50'
VERT SCALE: 1"=5



STRM 5 - 5-2
HORIZ SCALE: 1"=50'
VERT SCALE: 1"=5

PROFILE SCALE

COMMONWEALTH OF VIRGINIA
JONATHAN M. SHOWALTER
Lic. No. 0402057151
10/28/2020
PROFESSIONAL ENGINEER

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DATE
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DRAWN BY
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DESIGNED BY
J. SHOWALTER
CHECKED BY
J. HASH
SCALE
1"=50'

TIMMONS GROUP

ALBEMARLE COUNTY SIDEWALKS
COUNTY OF ALBEMARLE, VIRGINIA
ROCKFISH GAP STORMWATER PROFILES

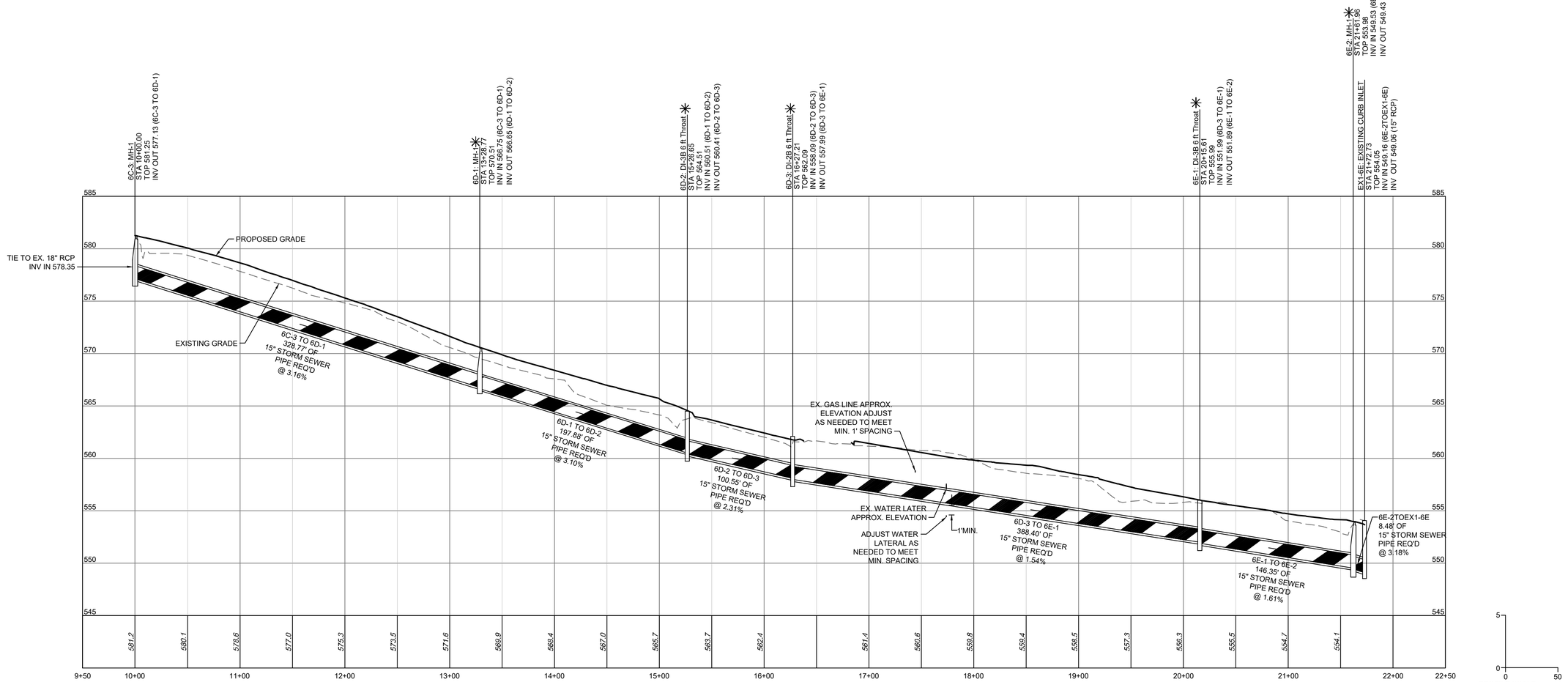
JOB NO.
33882.005
SHEET NO.
7A

UPC NO. 104159

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IFB 2021-12012-35



STRM 6C-3 - STRM 6E-2

HORIZ SCALE: 1"=50'
VERT SCALE: 1"=5

NOTES:
1. STD. IS-1 INVERT SHAPING SHALL BE APPLIED TO ALL INLETS.
2. ALL PIPE AND STORM SEWER PIPE SHALL BE RCP CLASS III UNLESS OTHERWISE SPECIFIED IN THE PLANS.
3. ALL DROP INLET AND MANHOLE COVERS SHALL BE NON-SKID STEEL PLATES IN ACCORDANCE WITH ST'D. MH-1 (106.05) IN THE ROAD AND BRIDGE STANDARDS UNLESS OTHERWISE SPECIFIED WITH AN ASTERISK AS SHOWN BELOW.

✳ INDICATES MANHOLE LIDS WHICH DO NOT REQUIRE THE NON-SKID STEEL PLATE TOP. ALTERNATIVE VDOT STANDARD TOP MAY BE USED.

(6C-3) 1 - ST'D. MH-1
TOP=581.25 H=4.12 (H>MIN.), INV.=577.13'

(6C-3)—(6D-1) 328.77' - 15" STORM SEWER PIPE REQ'D
INV. IN - 577.13, INV. OUT - 566.75

(6D-1) 1 - ST'D. MH1
TOP=570.51 H=3.86 (H<MIN.), INV.=566.65

(6D-1)—(6D-2) 197.88' - 15" STORM SEWER PIPE REQ'D
INV.IN - 566.65, INV. OUT - 560.51

(6D-2) 1 - ST'D. DI-3B (TYPE A NOSE)
TOP=564.51 H=4.1 (H>MIN.), L=6', INV.=560.41
1 UD CONNECTION REQ'D.

(6D-2)—(6D-3) 100.55' - 15" STORM SEWER PIPE REQ'D
INV.IN - 560.41, INV. OUT - 558.09

(6D-3) 1 - ST'D. DI-2 (TYPE A NOSE)
TOP=562.09 H=4.1 (H>MIN.), L=6', INV.=557.99
1 UD CONNECTION REQ'D.

(6D-3)—(6E-1) 388.40' - 15" STORM SEWER PIPE REQ'D
INV.IN - 557.99, INV. OUT - 551.99

(6E-1) 1 - ST'D. DI-3B (TYPE A NOSE)
TOP=555.99 H=4.1 (H>MIN.), L=6', INV.=551.89
2 UD CONNECTION REQ'D.

(6E-1)—(6E-2) 146.35' - 15" STORM SEWER PIPE REQ'D
INV. IN - 551.89, INV. OUT - 549.53

(6E-2) 1 - ST'D. MH-1
TOP=553.98 H=4.55 (H>MIN.), INV.=549.43
1 UD CONNECTION REQ'D.

(6E-2)—(EX1-6E) 8.48' - 15" STORM SEWER PIPE REQ'D
INV. IN - 549.43, INV. OUT - 549.16

(EX1-6E) 1 - ST'D. EXISITNG CURB INLET
TOP=554.05 H=4.99 (H>MIN.), INV.=549.06

UPC NO. 104159

COMMONWEALTH OF VIRGINIA
JONATHAN M. SHOWALTER
Lic. No. 0402057151
10/28/2020
PROFESSIONAL ENGINEER

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TIMMONS GROUP

DATE
10/28/2020
DRAWN BY
J. SHOWALTER
DESIGNED BY
J. SHOWALTER
CHECKED BY
J. HASH
SCALE
1"=50'

ALBEMARLE COUNTY SIDEWALKS
COUNTY OF ALBEMARLE, VIRGINIA
AVON STREET EXTENDED STORMWATER PROFILES

JOB NO.
33882.005
SHEET NO.
7B

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6B-1 — 1 - ST'D. DI-2B (TYPE A NOSE)
TOP=590.90 H=3.90 (H<MIN.), L=8', INV.=587.00'
1 UD CONNECTION REQ'D.

6B-1 — 6C-1 — 202.48' - 12" STORM SEWER PIPE REQ'D
INV. IN - 587.00, INV. OUT - 585.50

6C-1 — 1 - ST'D. DI-2B (TYPE A NOSE)
TOP=588.91 H=3.51 (H<MIN.), L=8', INV.=585.40
1 UD CONNECTION REQ'D.

6C-1 — 6C-2 — 92.87' - 12" STORM SEWER PIPE REQ'D
INV.IN - 585.40, INV. OUT - 584.94

6C-2 — 1 - ST'D. MH-1
TOP=587.96 H=3.02 (H<MIN.), INV.=584.94
1 UD CONNECTION REQ'D.

6A-1 — 1 - ST'D. DI-2B (TYPE A NOSE)
TOP=645.61 H=4.0 (H>MIN.), L=8', INV.=641.61
1 UD CONNECTION REQ'D.

6A-1 — 6-5 — 207.05' - 15" STORM SEWER PIPE REQ'D
INV. IN - 641.61, INV. OUT - 636.57
PIPE ON 1640' RADIUS

6-5 — 1 - ST'D. DI-2B (TYPE A NOSE)
TOP=640.57 H=4.1 (H>MIN.), L=8', INV.=636.47
1 UD CONNECTION REQ'D.

6-5 — 6-4 — 164.39' - 15" STORM SEWER PIPE REQ'D
INV.IN - 636.47, INV. OUT - 632.96

6-4 — 1 - ST'D. DI-2B (TYPE A NOSE)
TOP=636.96 H=4.1 (H>MIN.), L=8', INV.=632.86
1 UD CONNECTION REQ'D.

6-4 — 6-3 — 128.00' - 15" STORM SEWER PIPE REQ'D
INV.IN - 632.86 INV. OUT - 629.66

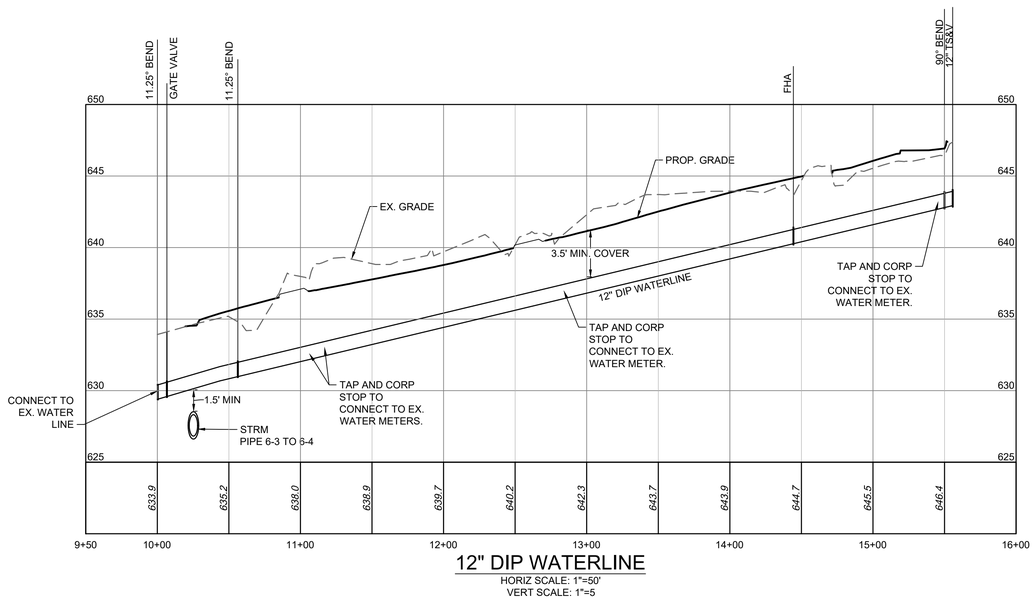
6-3 — 1 - ST'D. DI-3B (TYPE A NOSE)
TOP=633.66 H=4.1 (H>MIN.), L=6', INV.=629.56
1 UD CONNECTION REQ'D.

6-3 — 6-2 — 181.28' - 15" STORM SEWER PIPE REQ'D
INV. IN - 629.56, INV. OUT - 624.47

6-2 — 1 - ST'D. DI-2B (TYPE A NOSE)
TOP=628.47 H=4.1 (H>MIN.), L=10', INV.=624.37
1 UD CONNECTION REQ'D.

6-2 — 6-1 — 8.66' - 15" STORM SEWER PIPE REQ'D
INV. IN - 624.37, INV. OUT - 624.02

6-1 — 1 - ST'D. MH-1
TOP=628.35 H=5.31 (H>MIN.), INV.=623.04

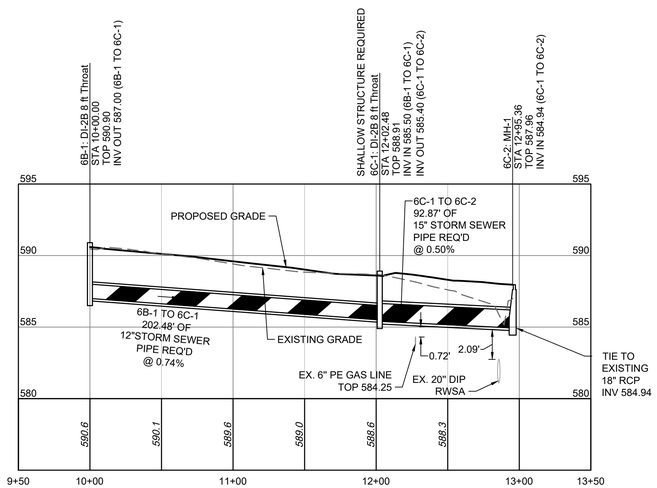


12" DIP WATERLINE

HORIZ SCALE: 1"=50'
VERT SCALE: 1"=5

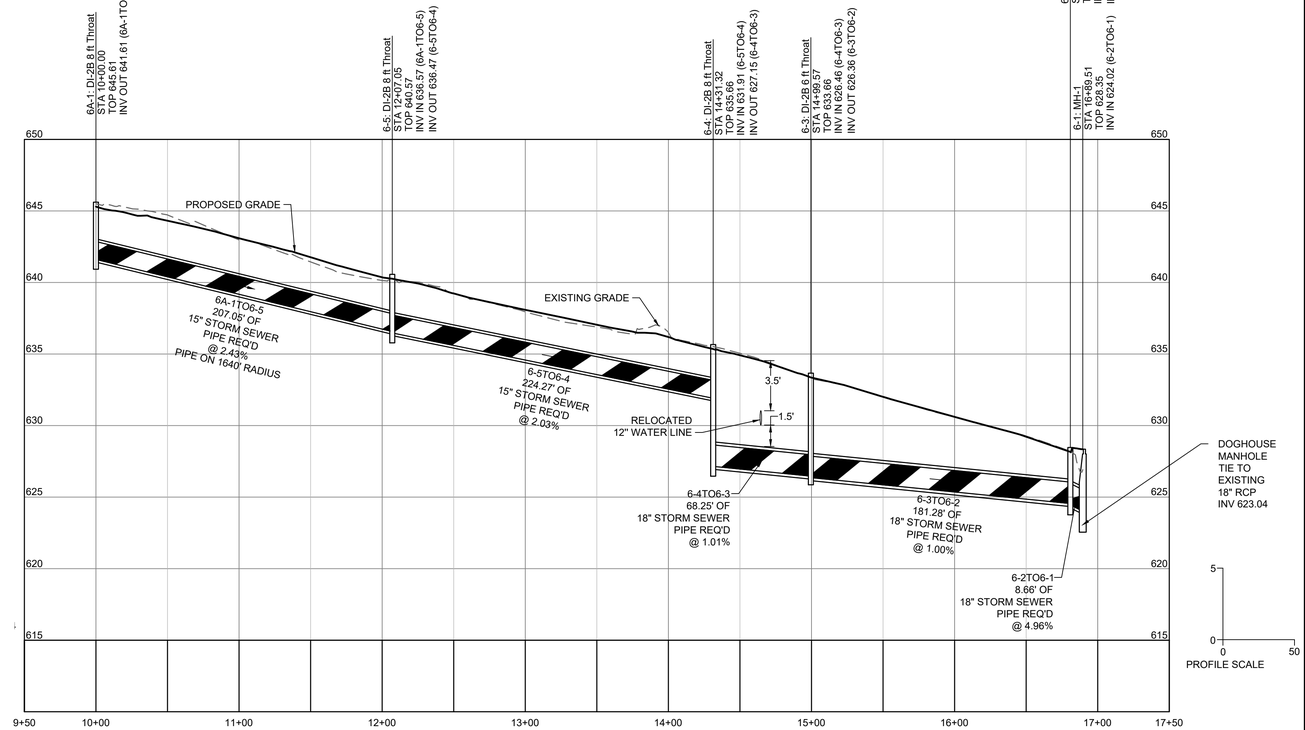
NOTES:
1. STD. IS-1 INVERT SHAPING SHALL BE APPLIED TO ALL INLETS.
2. ALL SIDEWALK WITHIN 10' OF DRAINAGE STRUCTURE SHALL BE TIED-IN WITH REBAR TO ADJACENT DRAINAGE STRUCTURE.
3. ALL DROP INLET AND MANHOLE COVERS SHALL BE NON-SKID STEEL PLATES IN ACCORDANCE WITH ST'D. MH-1 (106.05) IN THE ROAD AND BRIDGE STANDARDS UNLESS OTHERWISE SPECIFIED IN THE DRAINAGE DESCRIPTIONS.

✳INDICATES MANHOLE LIDS WHICH DO NOT REQUIRE THE NON-SKID STEEL PLATE TOP. ALTERNATIVE VDOT STANDARD TOP MAY BE USED.



STRM 6B-1 - STRM 6C-2

HORIZ SCALE: 1"=50'
VERT SCALE: 1"=5



STRM 6-1 - STRM 6A-1

HORIZ SCALE: 1"=50'
VERT SCALE: 1"=5

UPC NO. 104159

COMMONWEALTH OF VIRGINIA
JONATHAN M. SHOWALTER
Lic. No. 0402057151
10/28/2020
PROFESSIONAL ENGINEER

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DRAWN BY
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J. SHOWALTER
CHECKED BY
J. HASH
SCALE
1"=50'

ALBEMARLE COUNTY SIDEWALKS

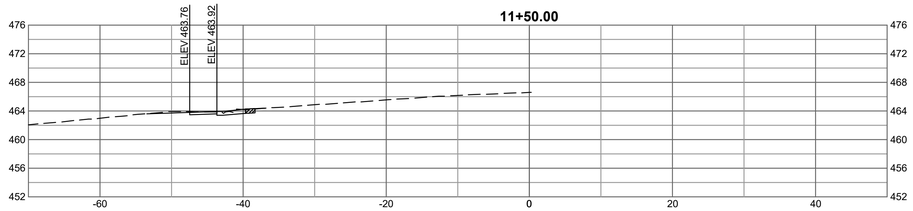
COUNTY OF ALBEMARLE, VIRGINIA

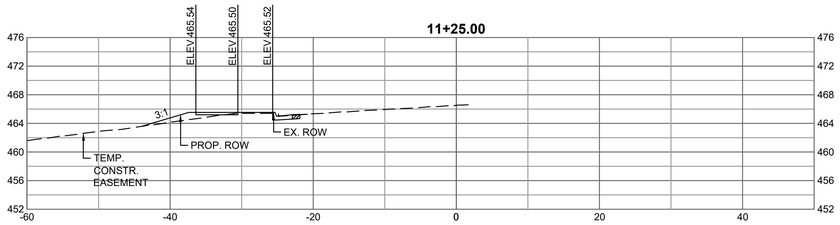
AVON STREET EXTENDED STORMWATER PROFILES

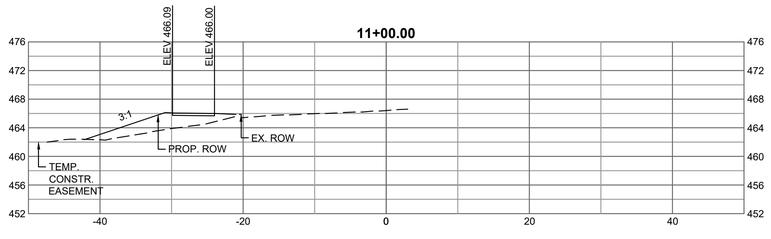
JOB NO.
33882.005
SHEET NO.
7C

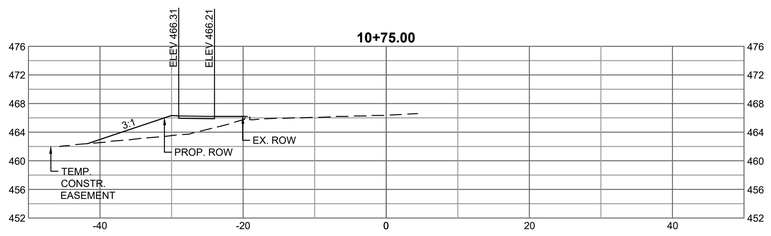
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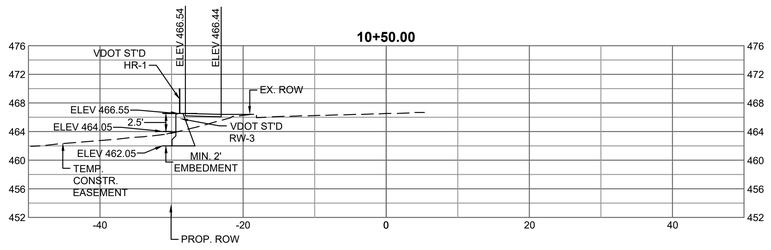
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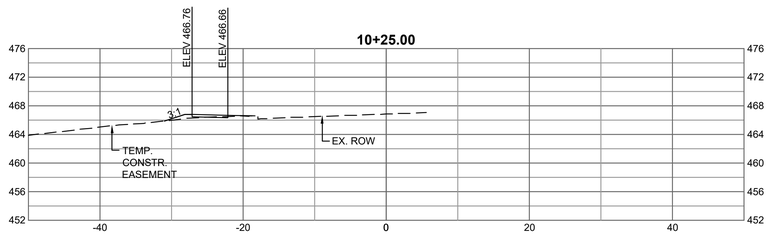


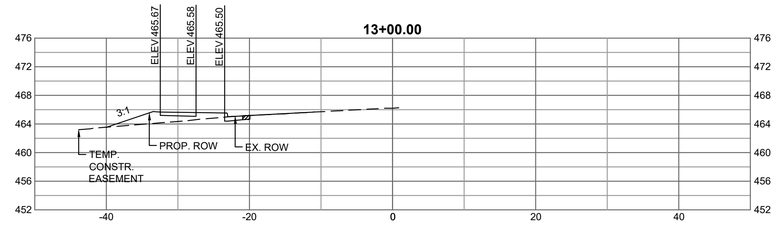


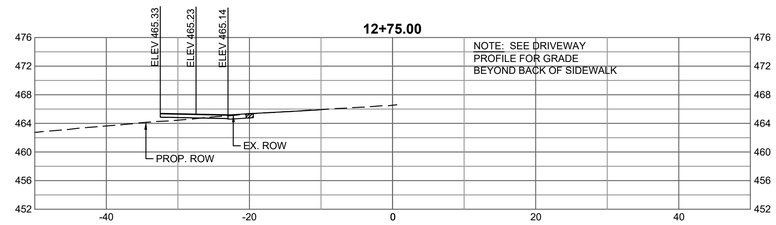


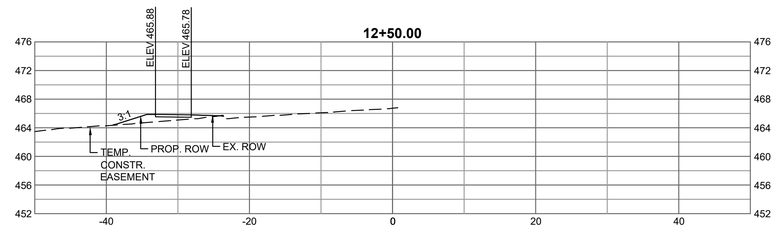


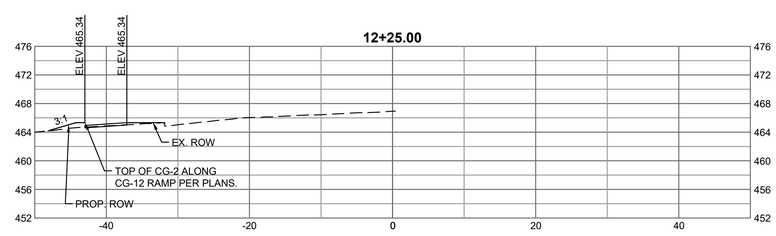


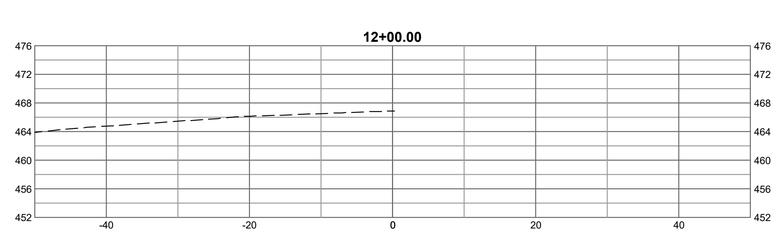


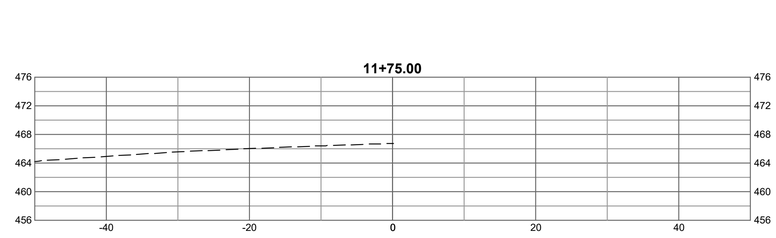












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JONATHAN M. SHOWALTER
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10/28/2020
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TIMMONS GROUP

DATE

DATE 10/28/2020
DRAWN BY J. SHOWALTER
DESIGNED BY J. SHOWALTER
CHECKED BY J. HASH
SCALE 1"=10'

ALBEMARLE COUNTY SIDEWALKS

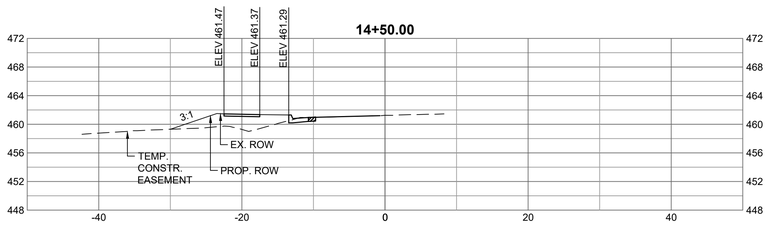
COUNTY OF ALBEMARLE, VIRGINIA

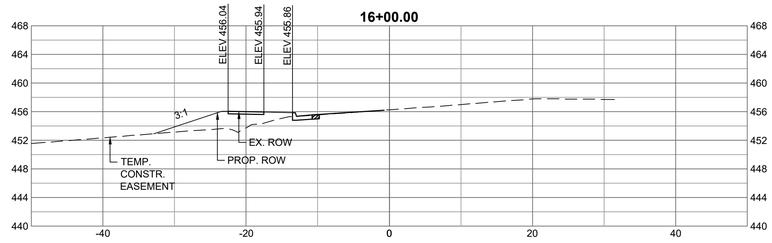
RIO ROAD SECTION 1 - CROSS SECTIONS

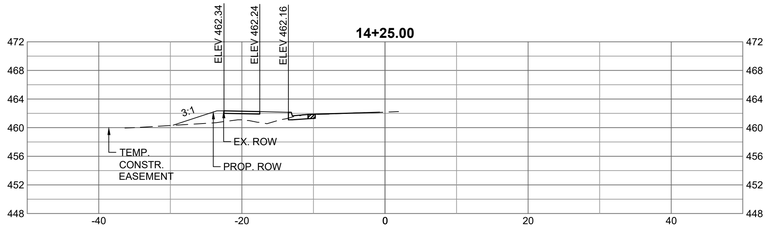
JOB NO. 33882.005

SHEET NO. XS-1

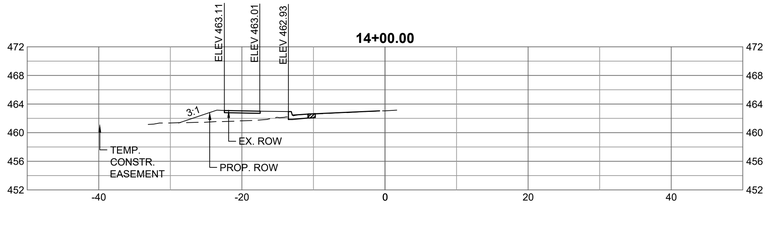
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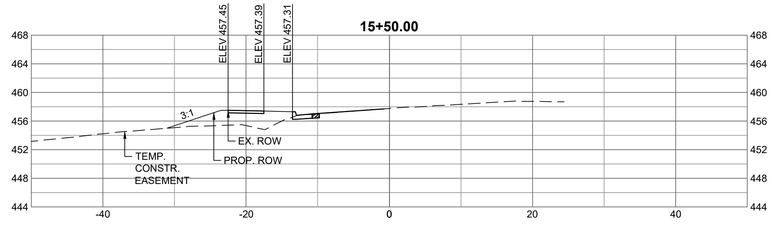


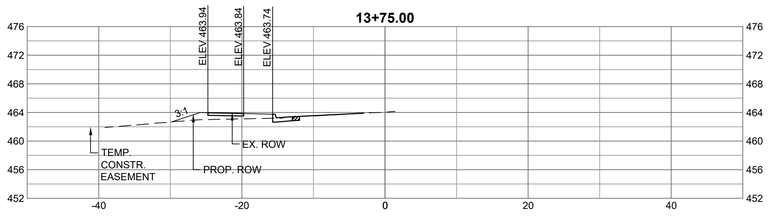


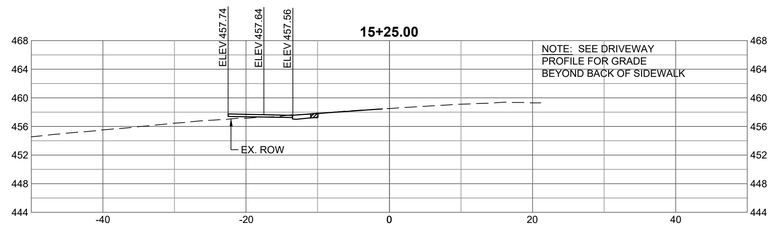


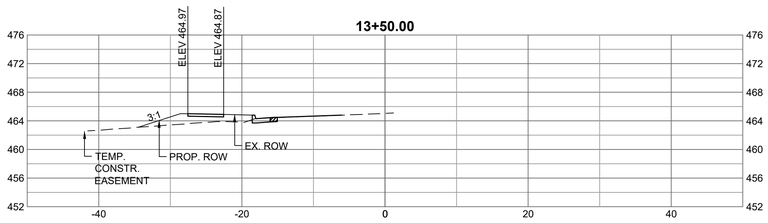


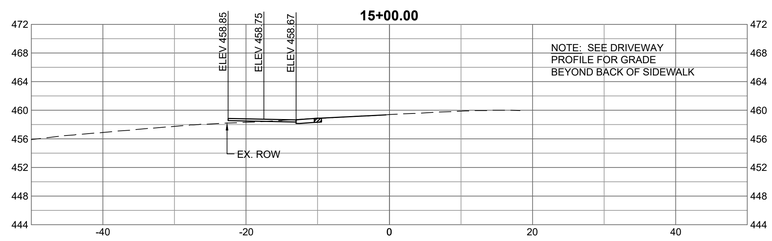


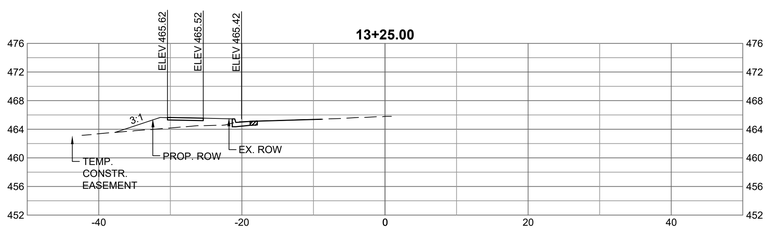


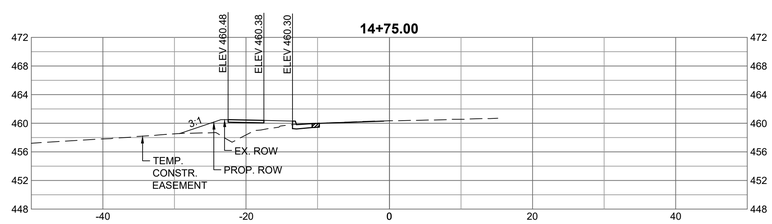












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JONATHAN M. SHOWALTER
Lic. No. 0402057151
10/28/2020
PROFESSIONAL ENGINEER

TIMMONS GROUP

ALBEMARLE COUNTY SIDEWALKS

COUNTY OF ALBEMARLE, VIRGINIA

RIO ROAD SECTION 1 - CROSS SECTIONS

DATE	10/28/2020
DRAWN BY	J. SHOWALTER
DESIGNED BY	J. SHOWALTER
CHECKED BY	J. HASH
SCALE	1"=10'
JOB NO.	33882.005
SHEET NO.	XS-2

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JONATHAN M. SHOWALTER
Lic. No. 0402057151
10/28/2020
PROFESSIONAL ENGINEER

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CHECKED BY	J. HASH
SCALE	1"=10'

ALBEMARLE COUNTY SIDEWALKS

COUNTY OF ALBEMARLE, VIRGINIA

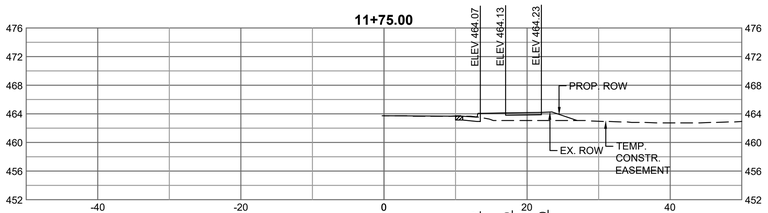
RIO ROAD SECTION 1 - CROSS SECTIONS

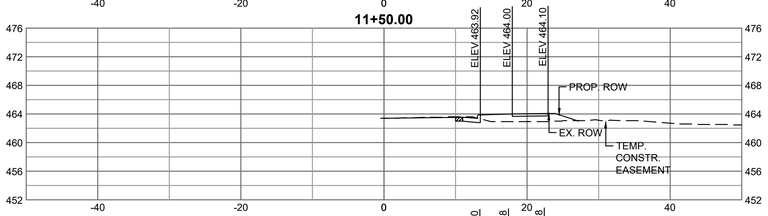
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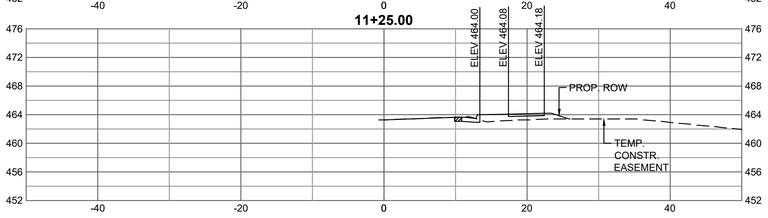
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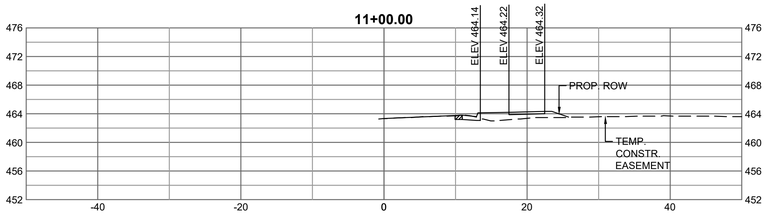
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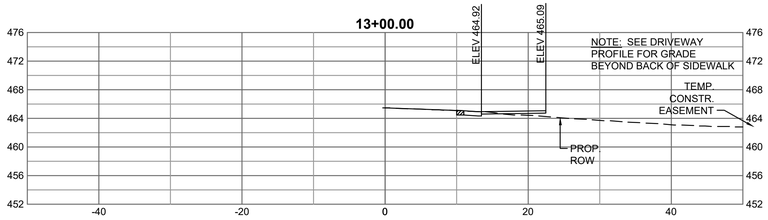
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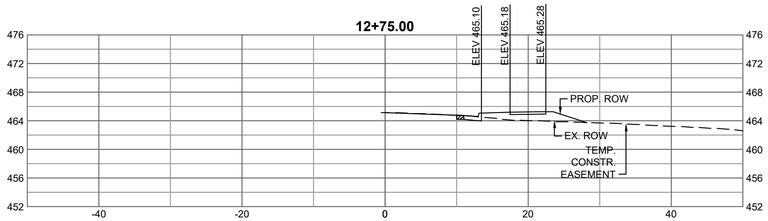


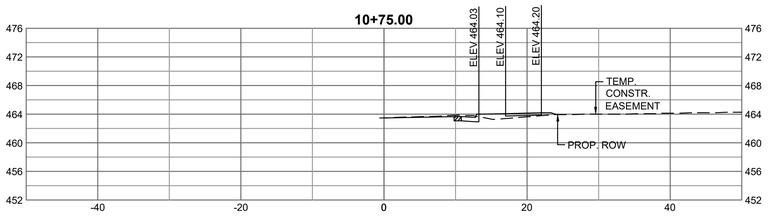


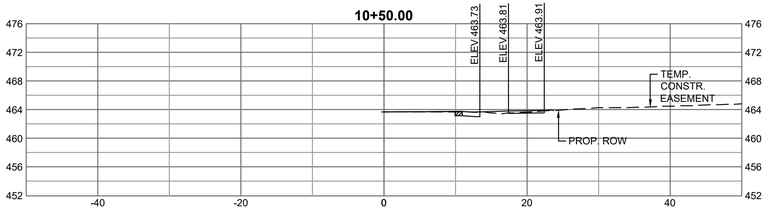


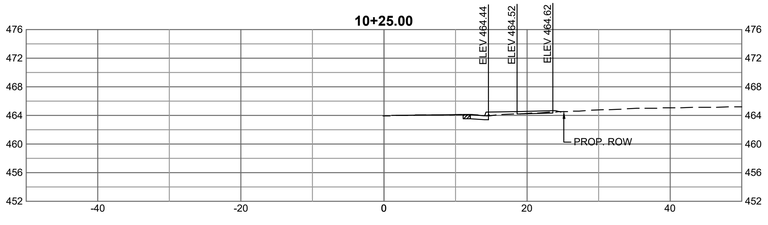


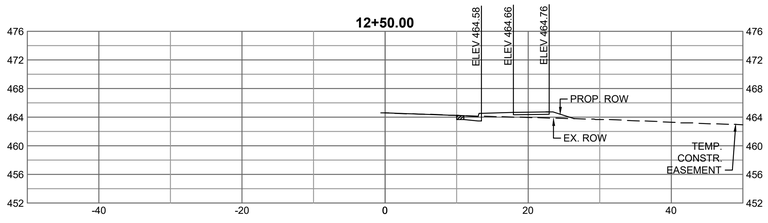


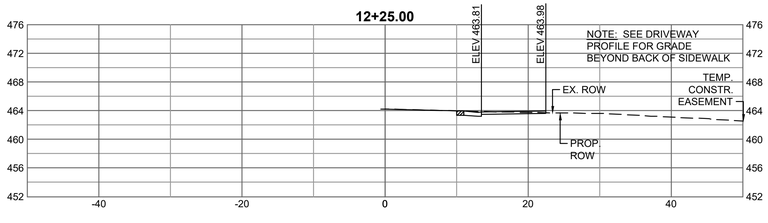


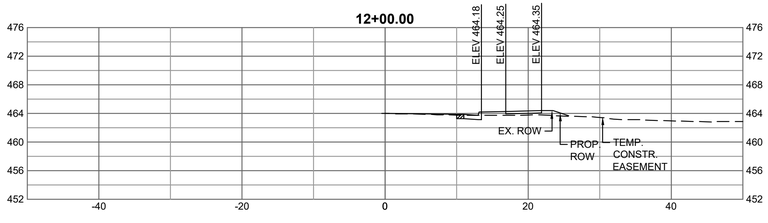












COMMONWEALTH OF VIRGINIA
JONATHAN M. SHOWALTER
Lic. No. 0402057151
10/28/2020
PROFESSIONAL ENGINEER

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DATE

DATE 10/28/2020
DRAWN BY J. SHOWALTER
DESIGNED BY J. SHOWALTER
CHECKED BY J. HASH
SCALE 1"=10'

TIMMONS GROUP

ALBEMARLE COUNTY SIDEWALKS

COUNTY OF ALBEMARLE, VIRGINIA

RIO ROAD SECTION 2 - CROSS SECTIONS

JOB NO. 33882.005
SHEET NO. XS-4

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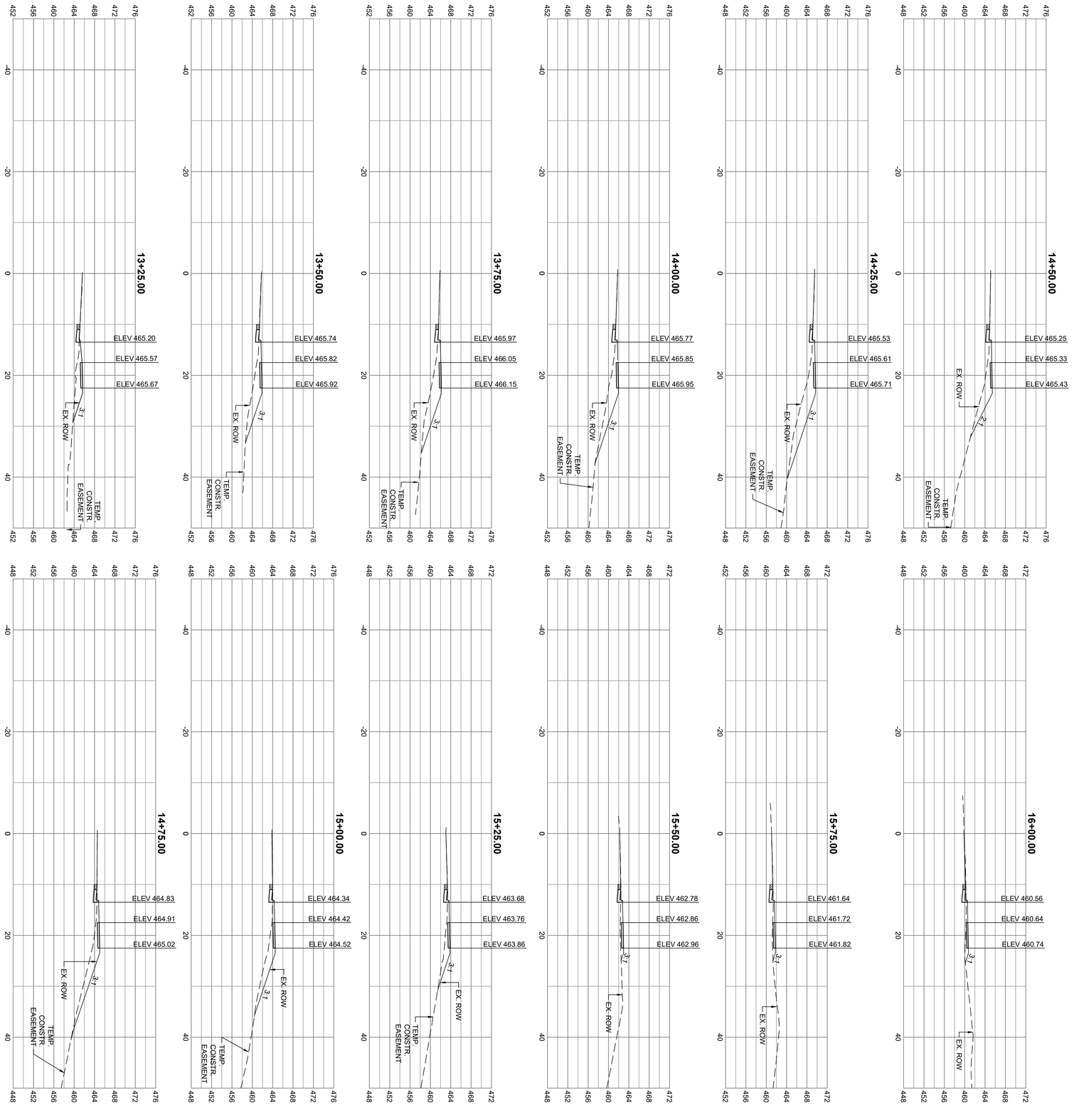
UPC NO. 104159

IFB 2021-12012-35

\\timmons.com\gfx\300\103\33882-stb_sidewalk\dVIG\Sheet\CD\33882C-XS-5.0-RIO ROAD-SEC4-CROSS SECTIONS.dwg | Plotted on 10/28/2020 8:47 AM | by Aaron Mallow

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10/28/2020

SHEET NO.	XS-5
JOB NO.	33882.005

ALBEMARLE COUNTY SIDEWALKS

COUNTY OF ALBEMARLE, VIRGINIA

RIO ROAD SECTION 2 - CROSS SECTIONS

SCALE	1"=10'
CHECKED BY	J. HASH
DESIGNED BY	J. SHOWALTER
DRAWN BY	J. SHOWALTER
DATE	10/28/2020

DATE	

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DATE 10/28/2020
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DESIGNED BY J. SHOWALTER
CHECKED BY J. HASH
SCALE 1"=10'

ALBEMARLE COUNTY SIDEWALKS

COUNTY OF ALBEMARLE, VIRGINIA

RIO ROAD SECTION 2 - CROSS SECTIONS

JOB NO. 33882.005

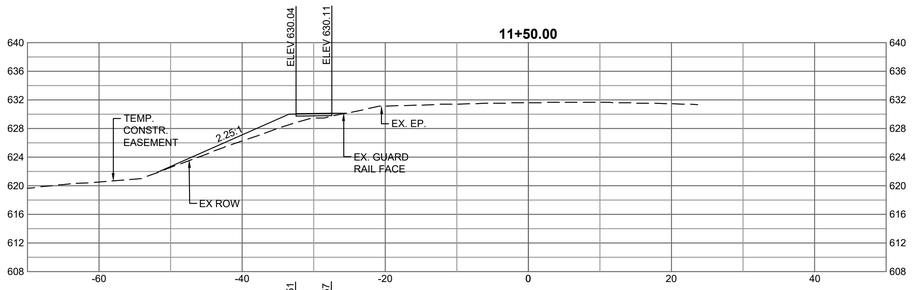
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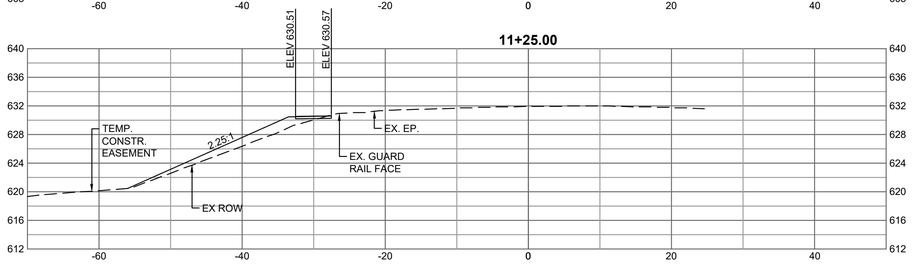
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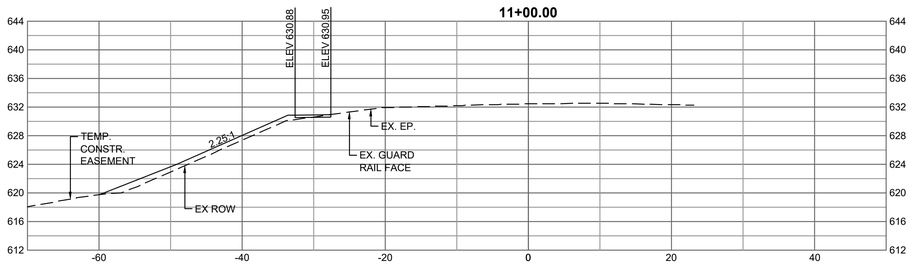
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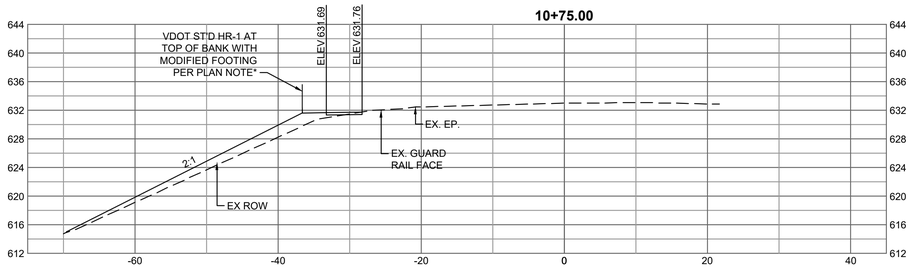
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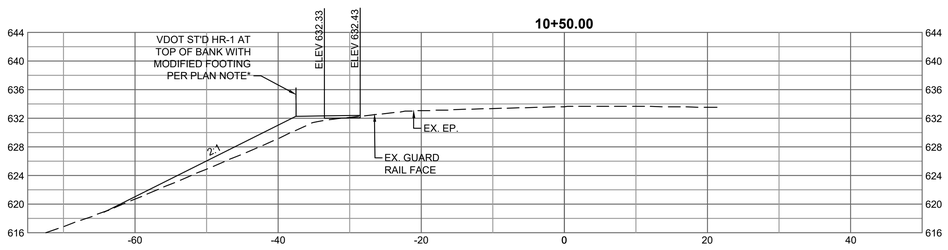
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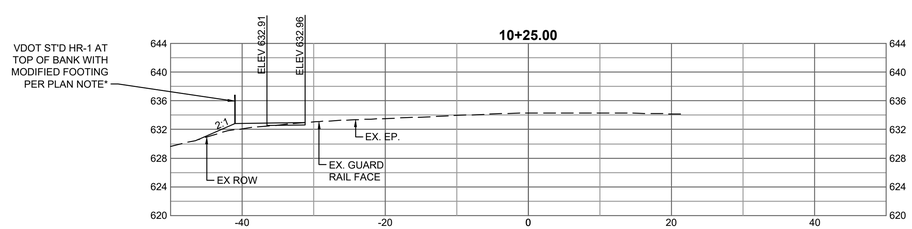


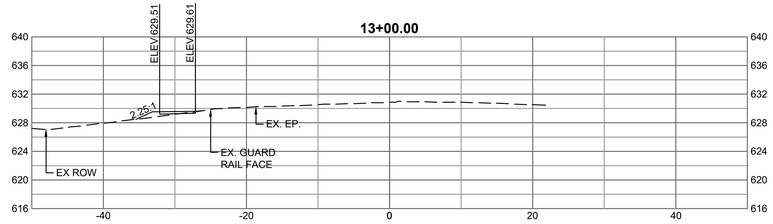


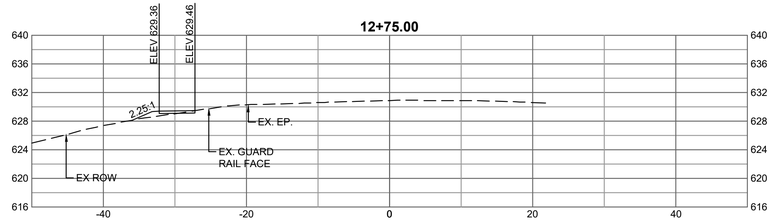


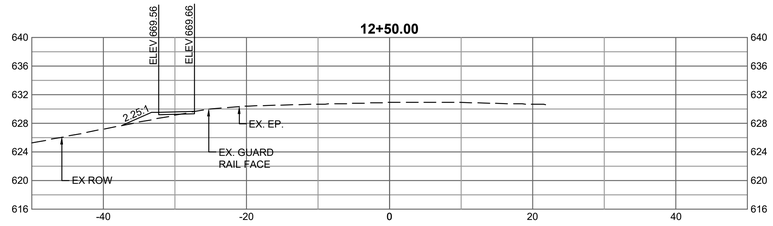


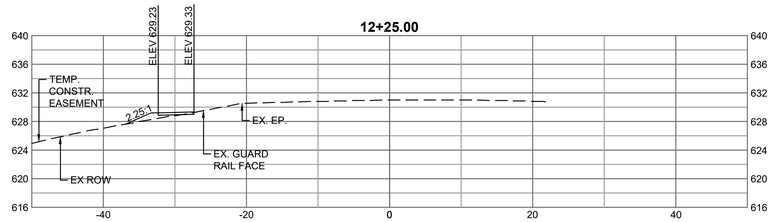


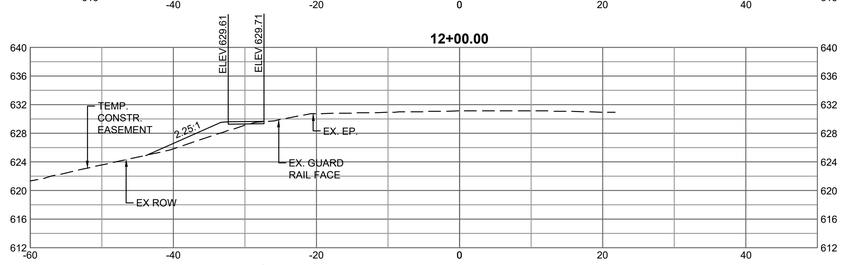


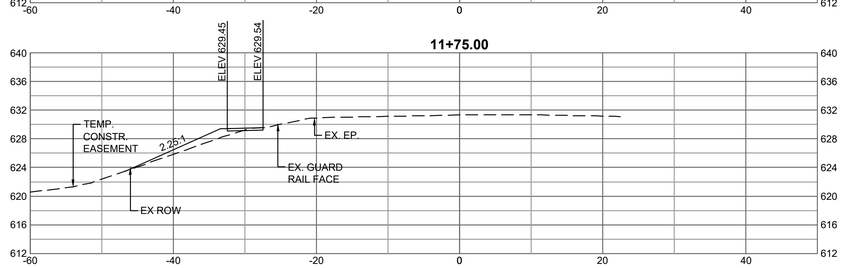












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10/28/2020
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DESIGNED BY J. SHOWALTER
CHECKED BY J. HASH
SCALE 1"=10'

TIMMONS GROUP

ALBEMARLE COUNTY SIDEWALKS

COUNTY OF ALBEMARLE, VIRGINIA

ROCKFISH GAP TURNPIKE - CROSS SECTIONS

JOB NO. 33882.005

SHEET NO. XS-7

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SCALE 1"=10'

TIMMONS GROUP

ALBEMARLE COUNTY SIDEWALKS

COUNTY OF ALBEMARLE, VIRGINIA

ROCKFISH GAP TURNPIKE - CROSS SECTIONS

JOB NO. 33882.005

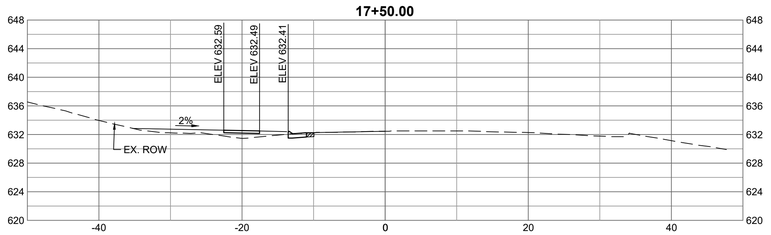
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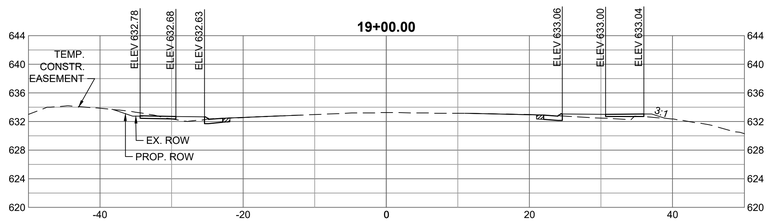
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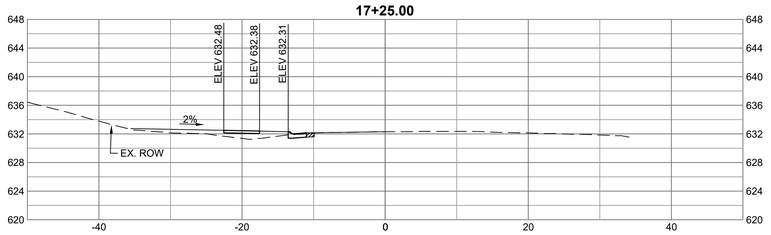
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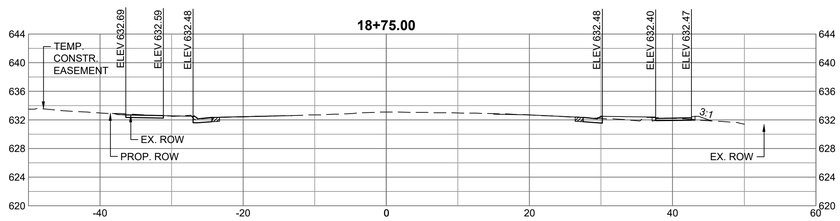
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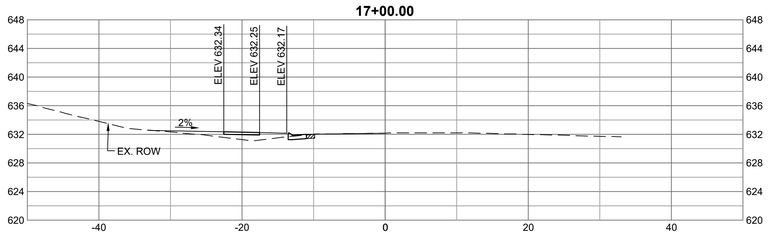
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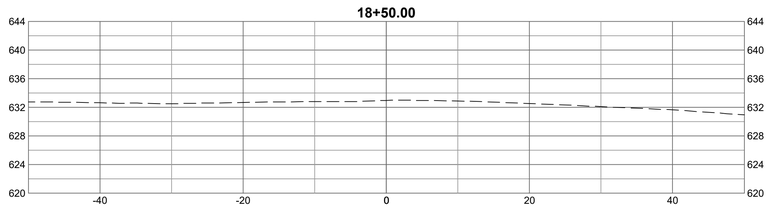


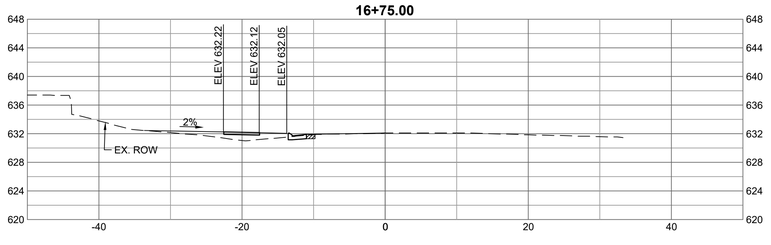


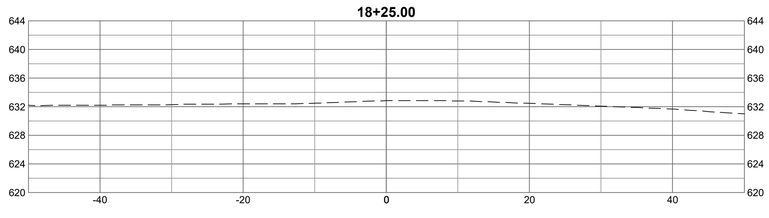


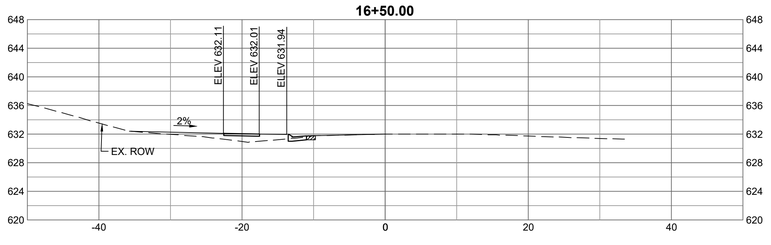


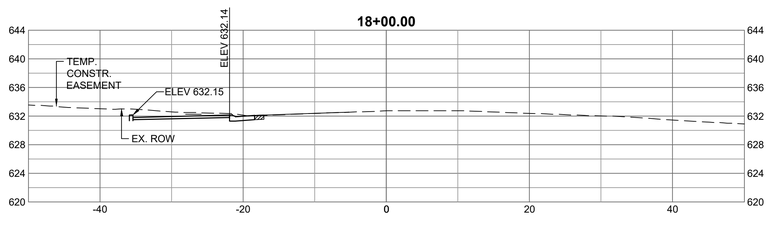


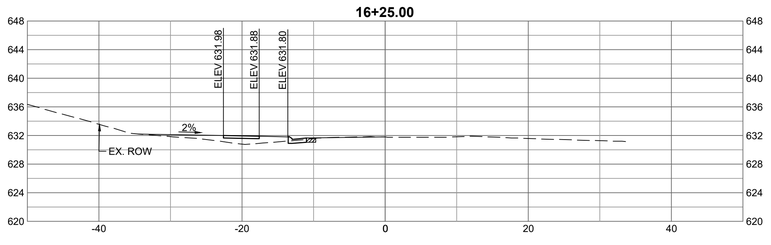


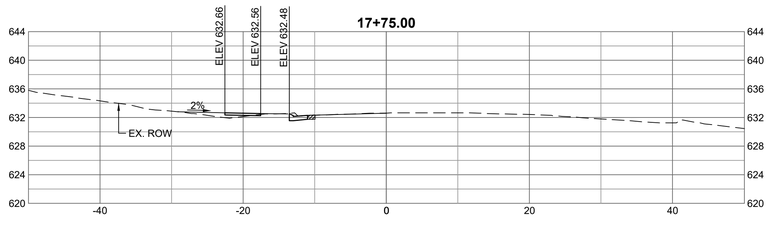












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Lic. No. 0402057151
10/28/2020
PROFESSIONAL ENGINEER

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TIMMONS GROUP

ALBEMARLE COUNTY SIDEWALKS

COUNTY OF ALBEMARLE, VIRGINIA

ROCKFISH GAP TURNPIKE - CROSS SECTIONS

DATE	10/28/2020
DRAWN BY	J. SHOWALTER
DESIGNED BY	J. SHOWALTER
CHECKED BY	J. HASH
SCALE	1"=10'
JOB NO.	33882.005
SHEET NO.	XS-9

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DRAWN BY
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DESIGNED BY
J. SHOWALTER
CHECKED BY
J. HASH
SCALE
1"=10'

TIMMONS GROUP

ALBEMARLE COUNTY SIDEWALKS

COUNTY OF ALBEMARLE, VIRGINIA

ROCKFISH GAP TURNPIKE - CROSS SECTIONS

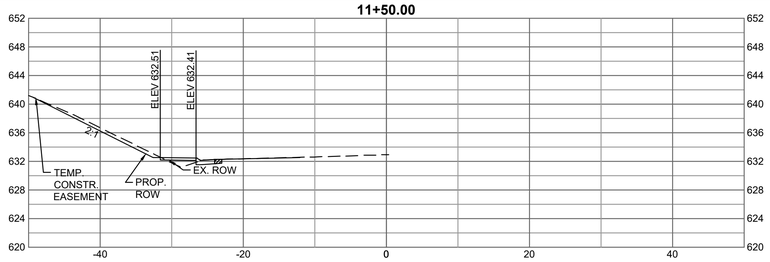
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33882.005
SHEET NO.
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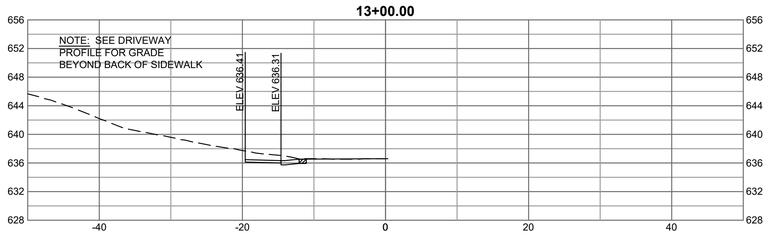
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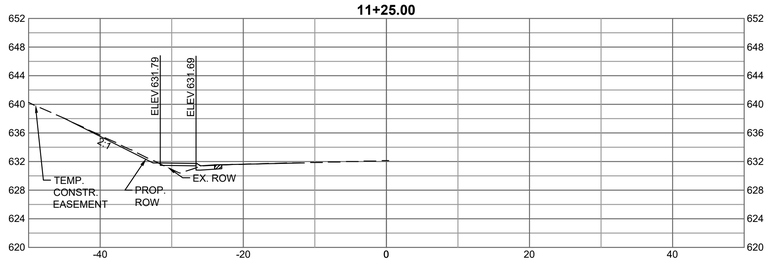
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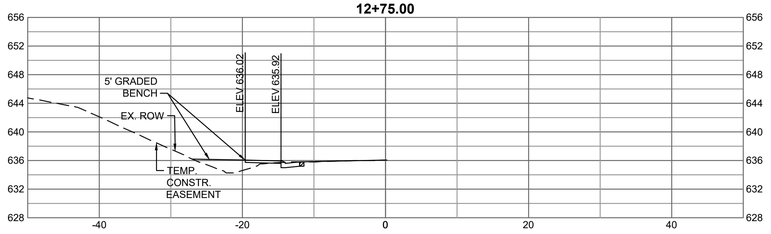
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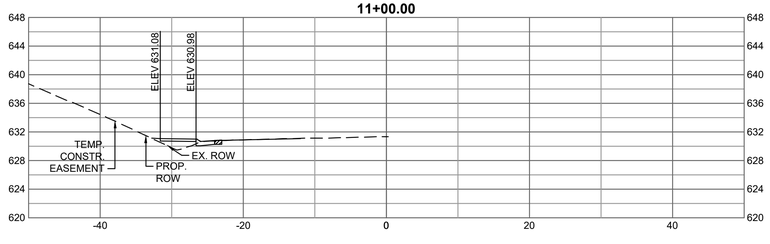
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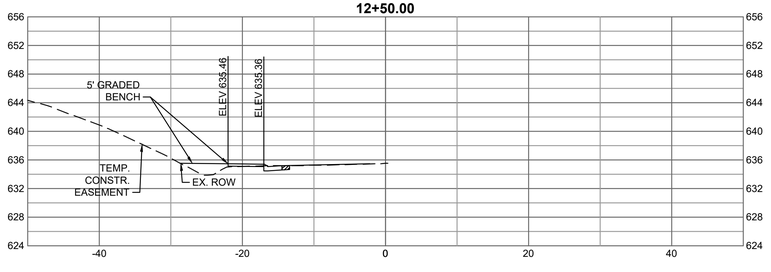


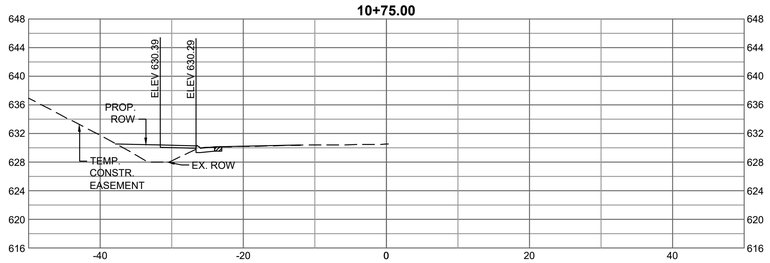


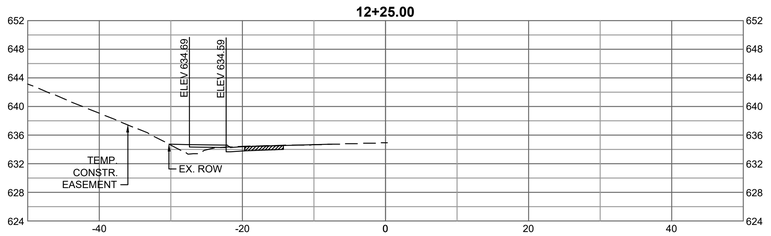


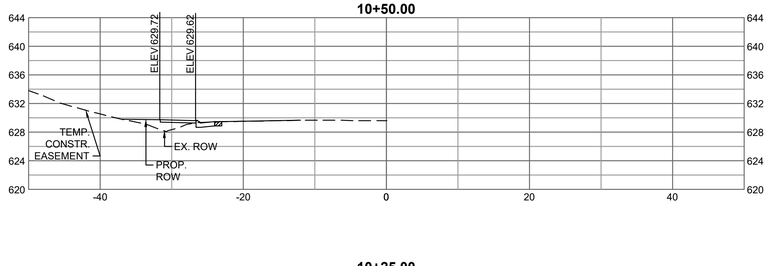


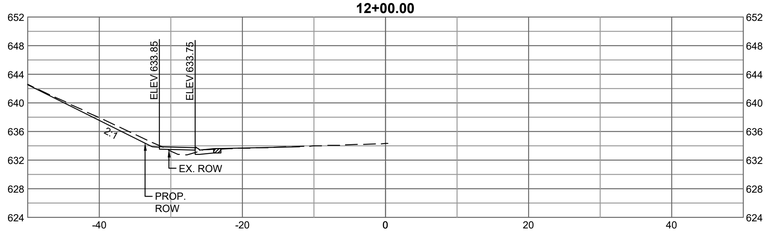


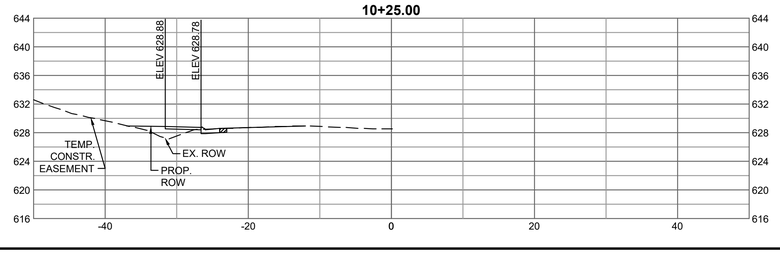


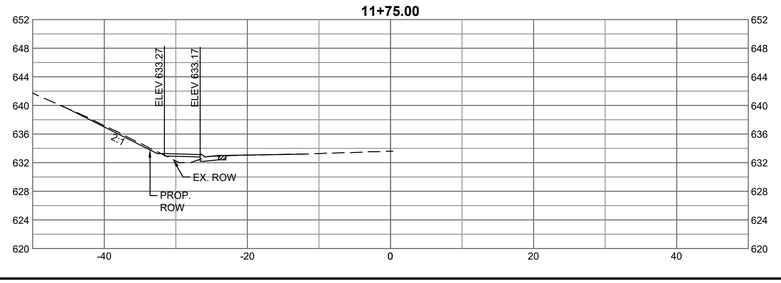












COMMONWEALTH OF VIRGINIA
JONATHAN M. SHOWALTER
Lic. No. 0402057151
10/28/2020
PROFESSIONAL ENGINEER

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DATE

DATE 10/28/2020
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DESIGNED BY J. SHOWALTER
CHECKED BY J. HASH
SCALE 1"=10'

TIMMONS GROUP

ALBEMARLE COUNTY SIDEWALKS

COUNTY OF ALBEMARLE, VIRGINIA

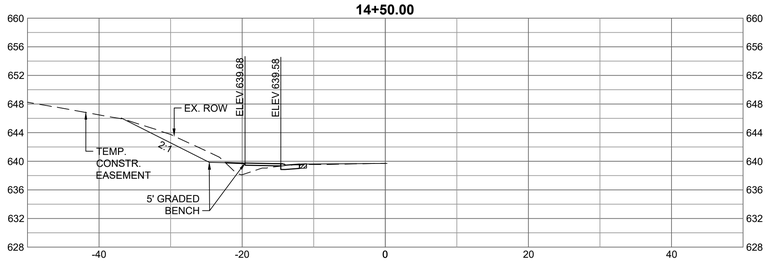
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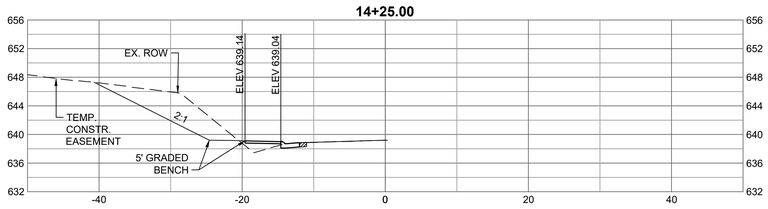
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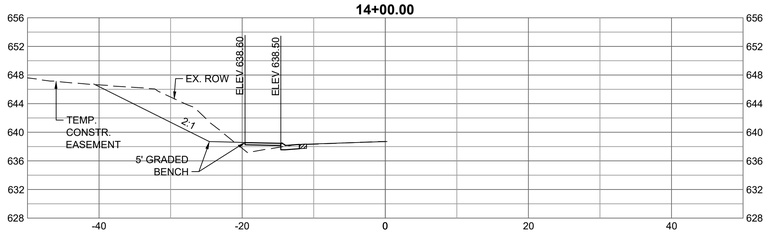
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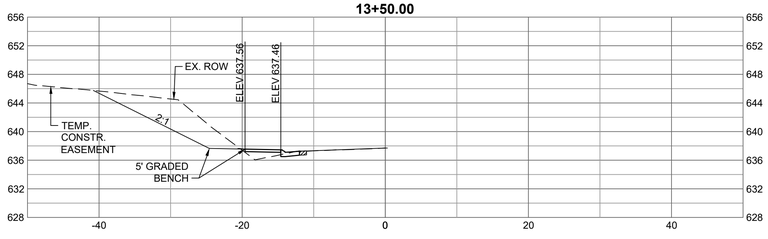
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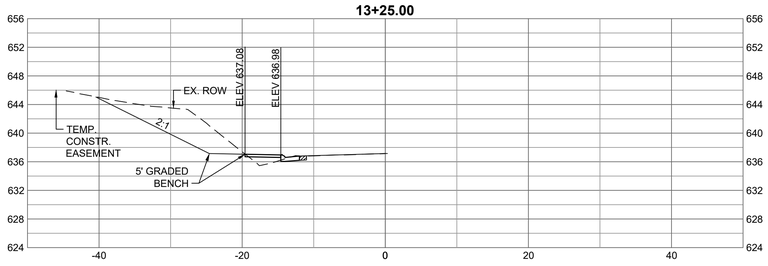


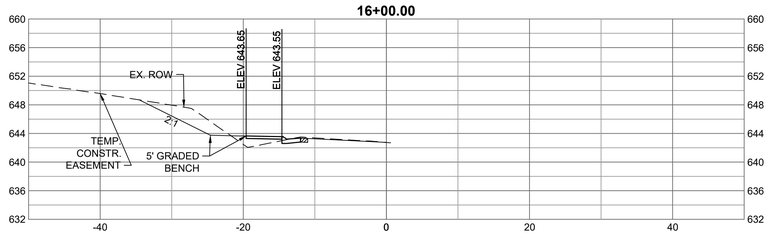


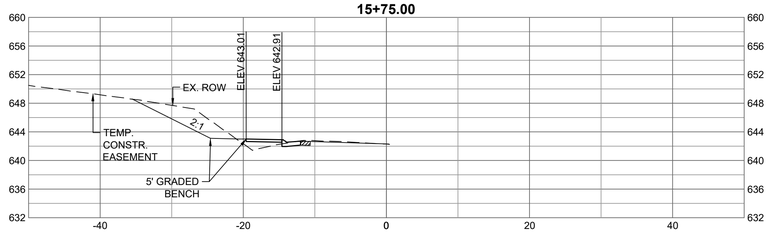


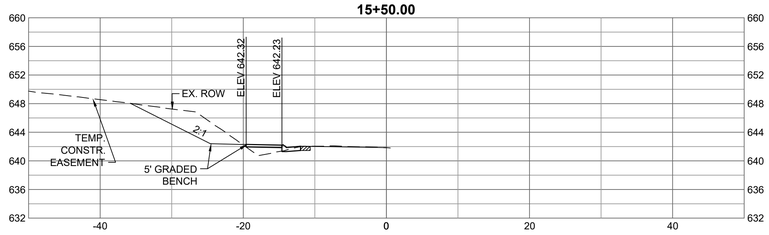


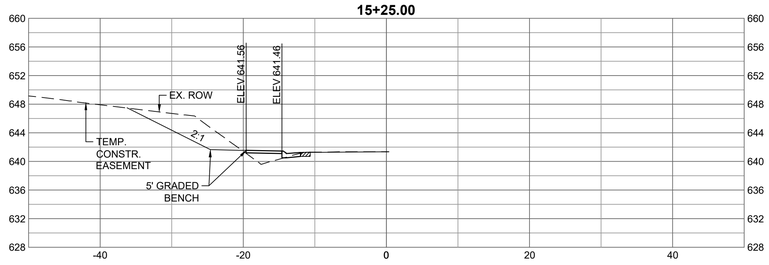


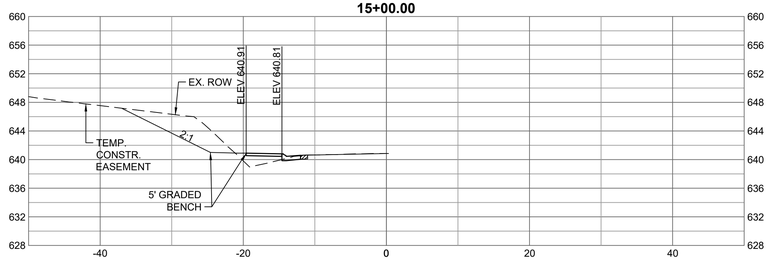


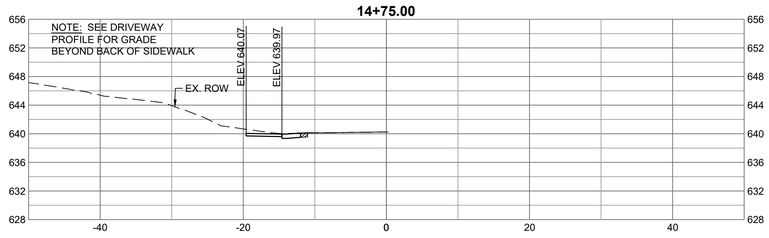












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SCALE 1"=10'

TIMMONS GROUP

ALBEMARLE COUNTY SIDEWALKS

COUNTY OF ALBEMARLE, VIRGINIA

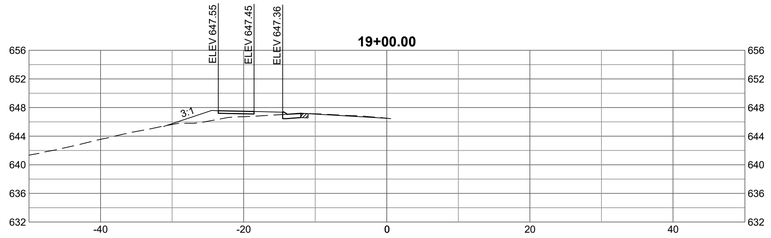
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JOB NO. 33882.005
SHEET NO. XS-12

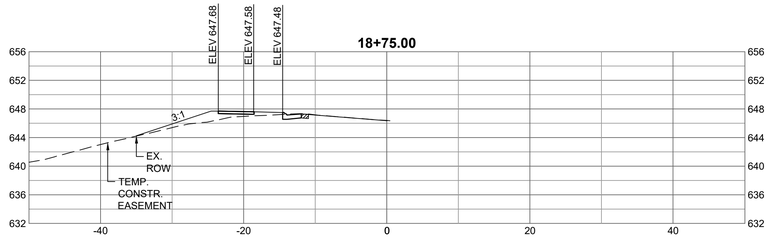
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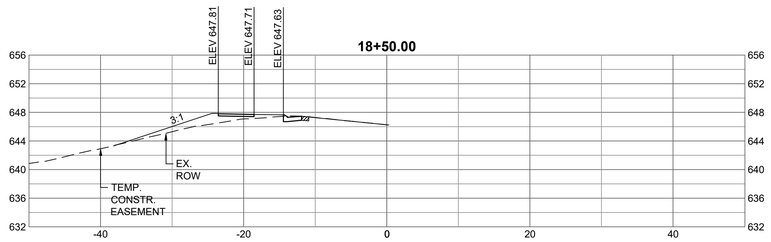


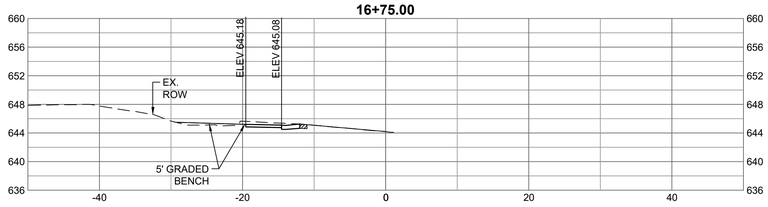


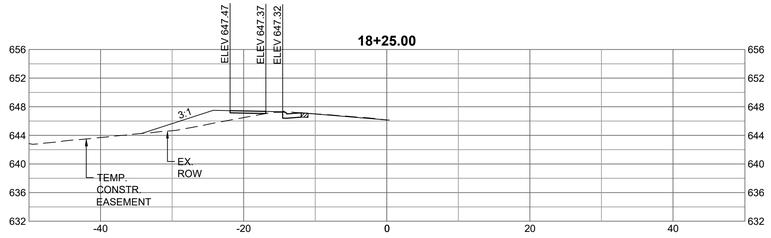


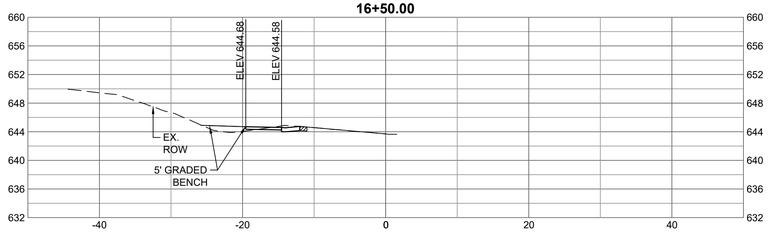


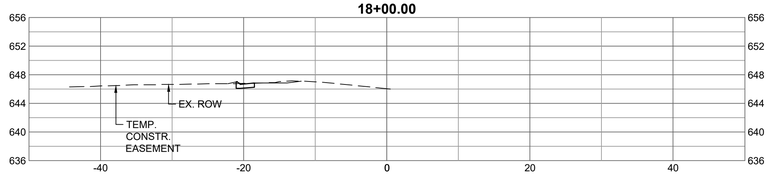




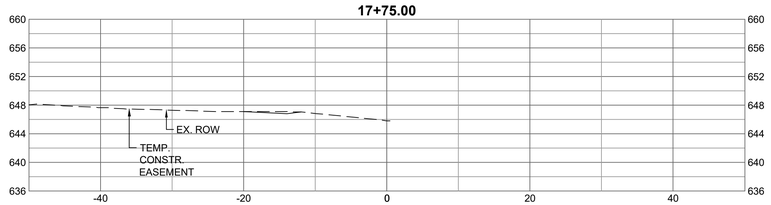












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JONATHAN M. SHOWALTER
Lic. No. 0402057151
10/28/2020
PROFESSIONAL ENGINEER

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CHECKED BY J. HASH
SCALE 1"=10'

TIMMONS GROUP

ALBEMARLE COUNTY SIDEWALKS

COUNTY OF ALBEMARLE, VIRGINIA

AVON EXTENDED - CROSS SECTIONS

JOB NO. 33882.005

SHEET NO. XS-13

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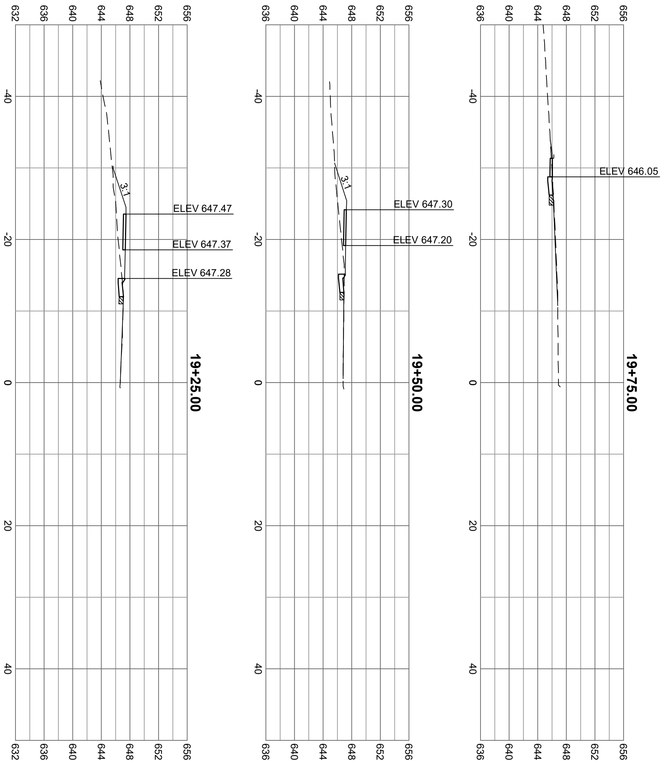
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IFB 2021-12012-35

\\timmons.com\gfx\3001\033\33882-alb sidewalks\DWG\Sheet\CD\33882C-XS-7.0-AVON EXTENED-CROSS SECTIONS.dwg | Plotted on 10/28/2020 8:49 AM | by Aaron Mabee

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JOSHUA M. SHOWALTER
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PROFESSIONAL ENGINEER
10/28/2020

ALBEMARLE COUNTY SIDEWALKS

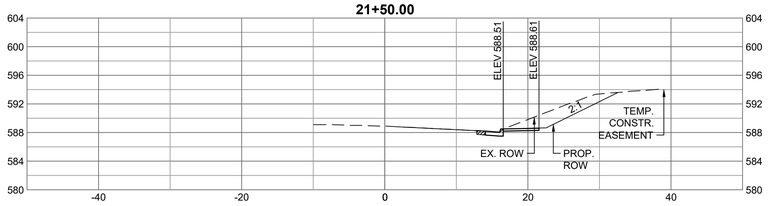
COUNTY OF ALBEMARLE, VIRGINIA

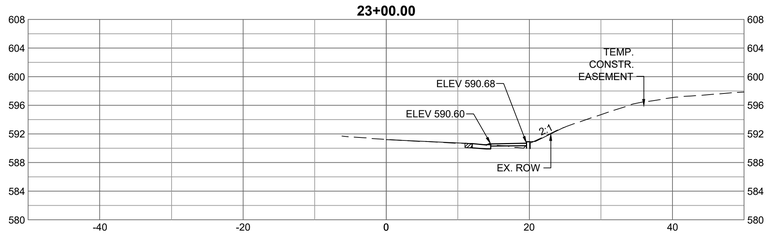
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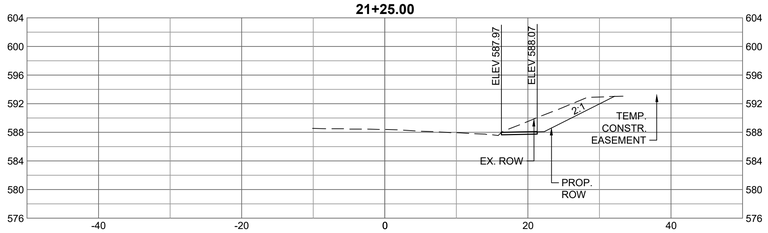
SHEET NO.	XS-14
JOB NO.	33882.005
SCALE	1"=10'
CHECKED BY	J. HASH
DESIGNED BY	J. SHOWALTER
DRAWN BY	J. SHOWALTER
DATE	10/28/2020

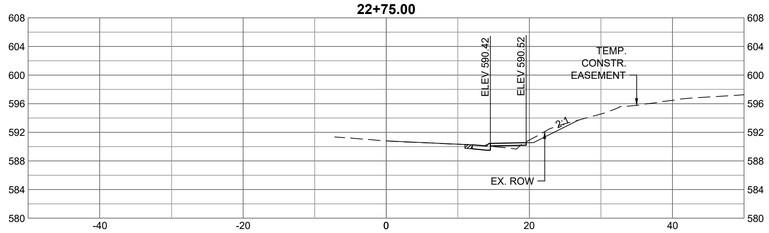
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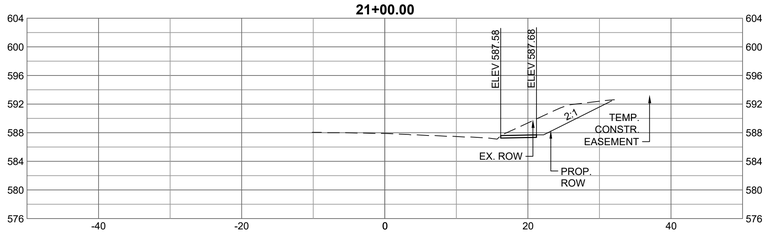
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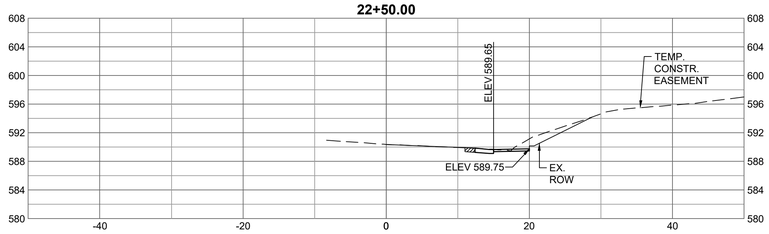


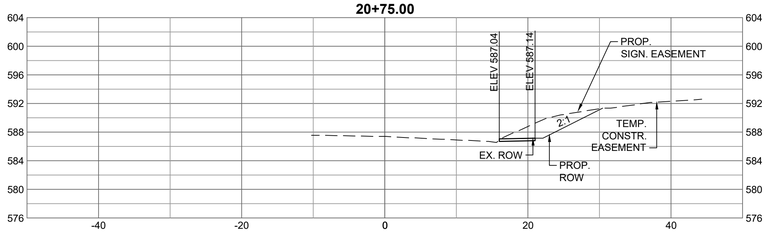


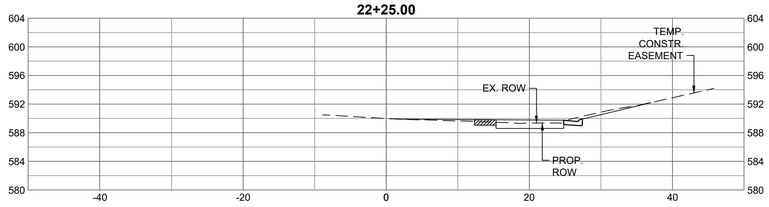


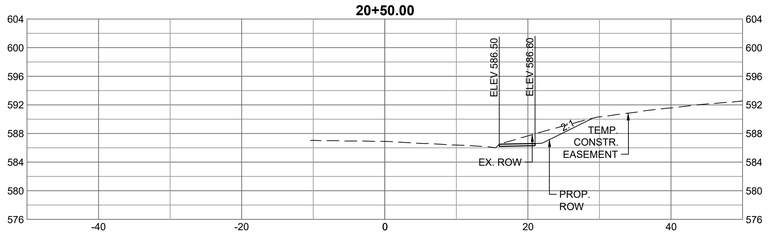


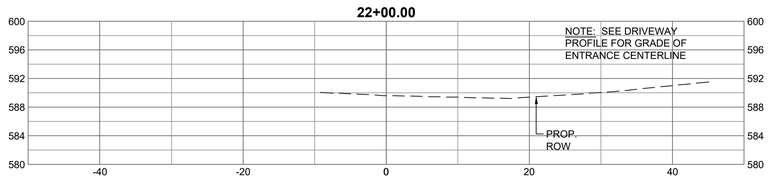


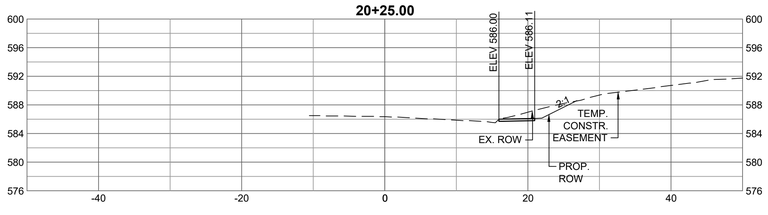


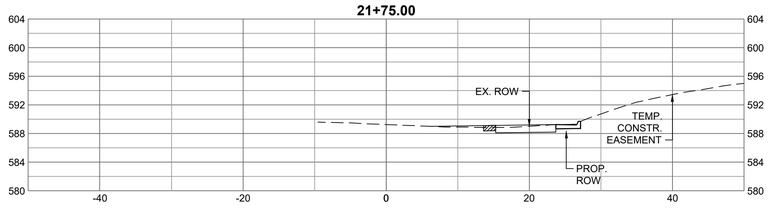












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COUNTY OF ALBEMARLE, VIRGINIA

AVON EXTENDED - CROSS SECTIONS

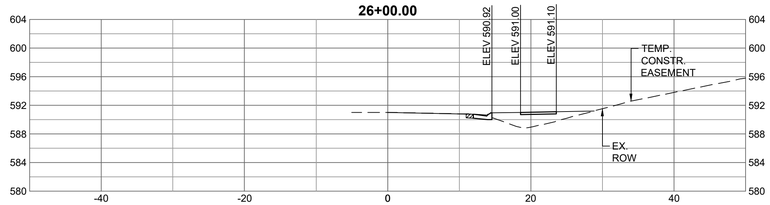
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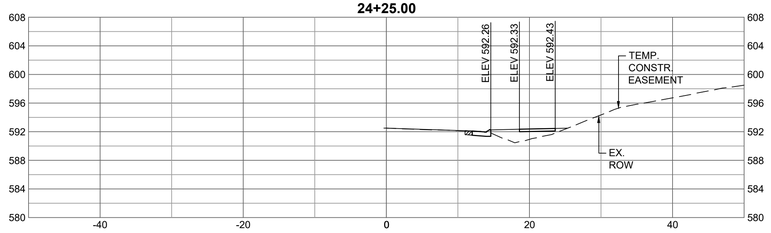
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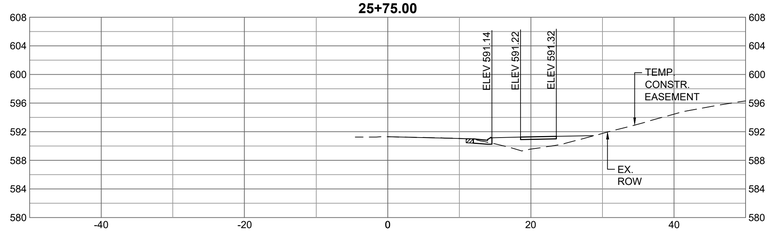
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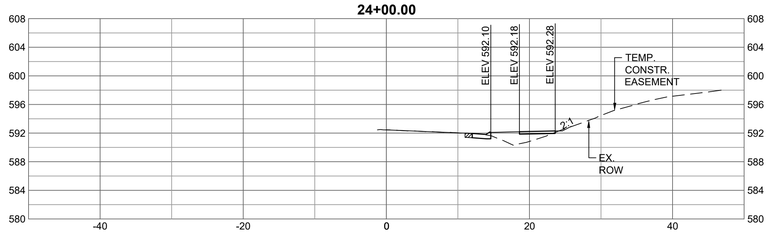
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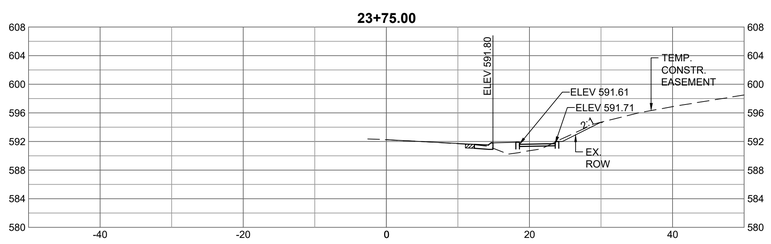


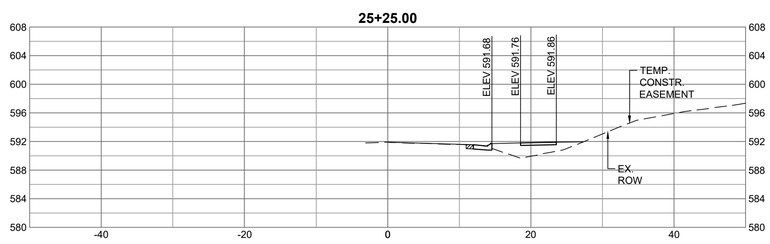


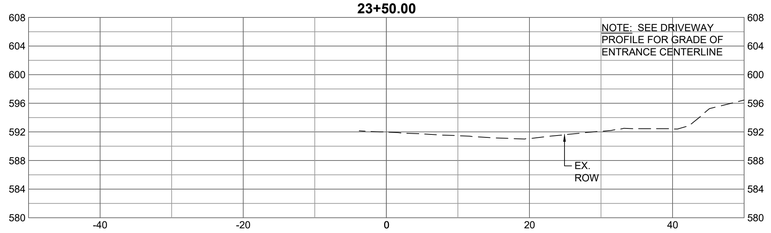


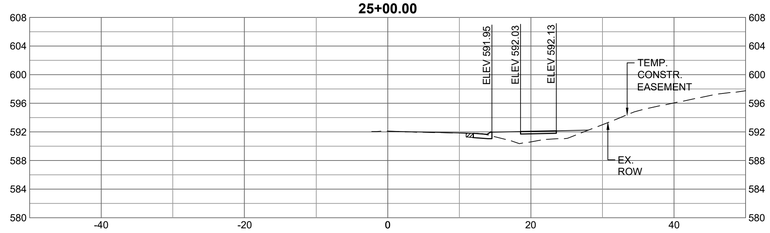


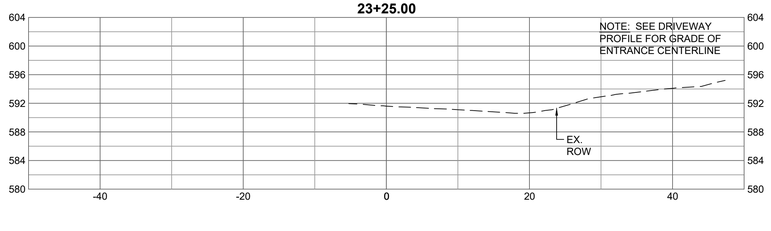














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TIMMONS GROUP

ALBEMARLE COUNTY SIDEWALKS
COUNTY OF ALBEMARLE, VIRGINIA
AVON EXTENDED - CROSS SECTIONS

DATE
10/28/2020
DRAWN BY
J. SHOWALTER
DESIGNED BY
J. SHOWALTER
CHECKED BY
J. HASH
SCALE

JOB NO. 33882.005

SHEET NO. XS-16

UPC NO. 104159

IFB 2021-12012-35

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JONATHAN M. SHOWALTER
Lic. No. 0402057151
10/28/2020
PROFESSIONAL ENGINEER

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DATE

DATE 10/28/2020
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DESIGNED BY J. SHOWALTER
CHECKED BY J. HASH
SCALE 1"=10'

ALBEMARLE COUNTY SIDEWALKS

COUNTY OF ALBEMARLE, VIRGINIA

AVON EXTENDED - CROSS SECTIONS

JOB NO. 33882.005
SHEET NO. XS-17

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DESIGNED BY: J. SHOWALTER
CHECKED BY: J. HASH
SCALE: 1"=10'

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ALBEMARLE COUNTY SIDEWALKS

COUNTY OF ALBEMARLE, VIRGINIA

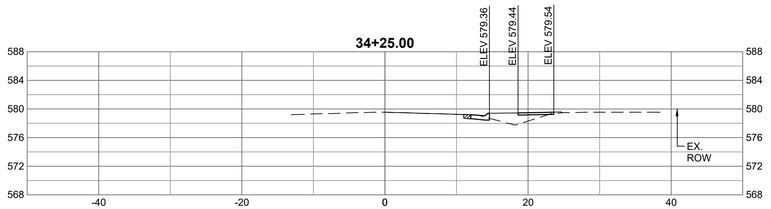
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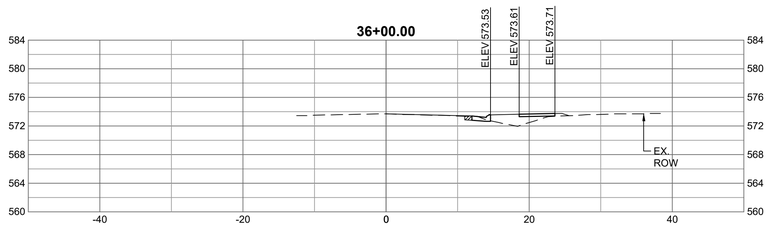
JOB NO. 33882.005

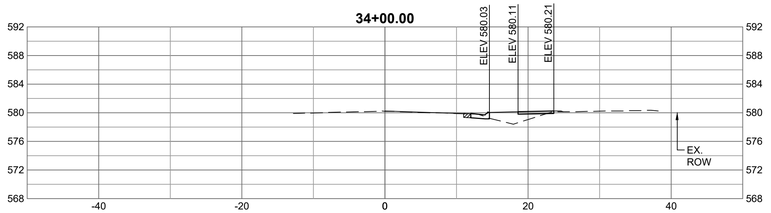
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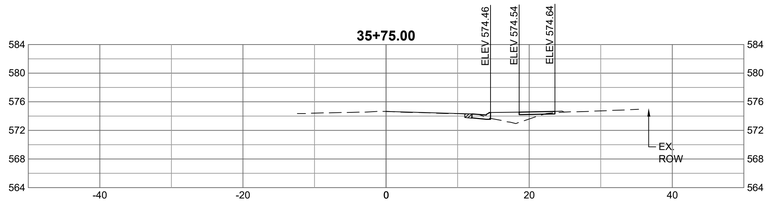
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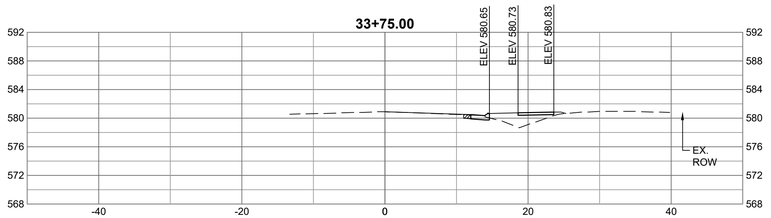
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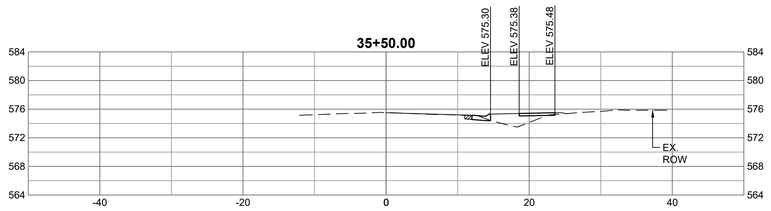


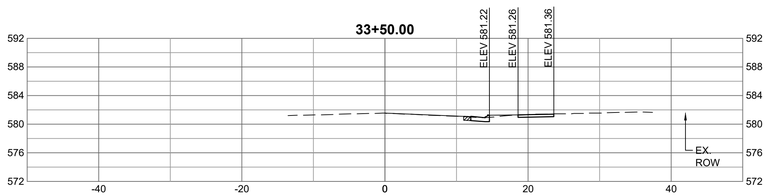


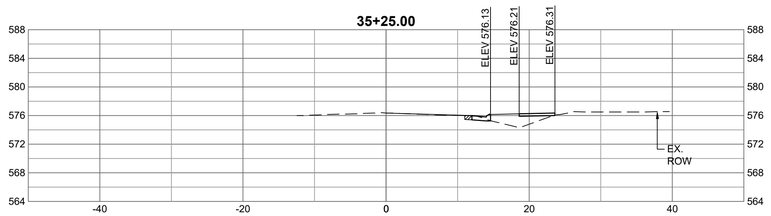


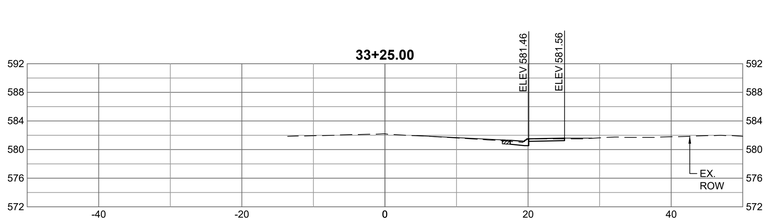


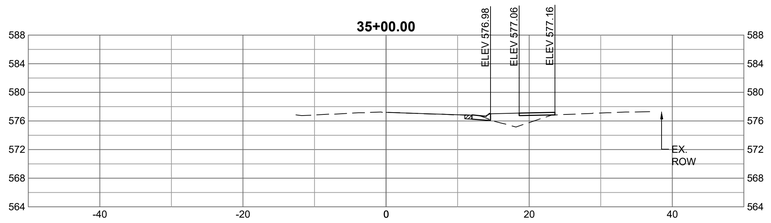


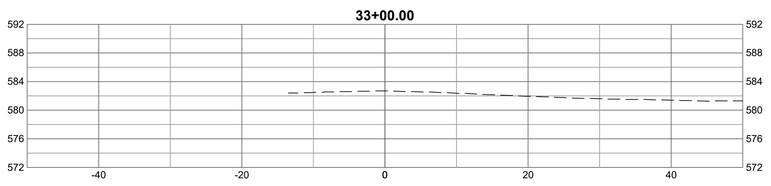


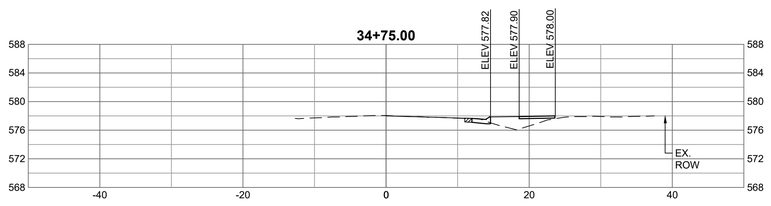




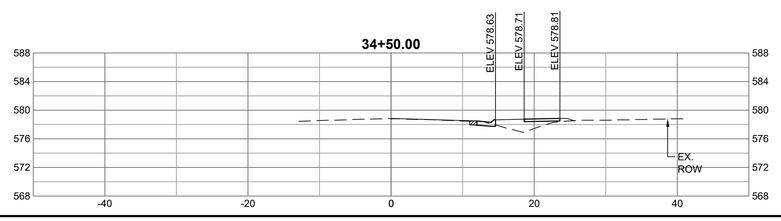












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JONATHAN M. SHOWALTER
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10/28/2020
PROFESSIONAL ENGINEER

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DATE

DATE 10/28/2020
DRAWN BY J. SHOWALTER
DESIGNED BY J. SHOWALTER
CHECKED BY J. HASH
SCALE 1"=10'

TIMMONS GROUP

ALBEMARLE COUNTY SIDEWALKS
COUNTY OF ALBEMARLE, VIRGINIA
AVON EXTENDED - CROSS SECTIONS

JOB NO. 33882.005
SHEET NO. XS-19

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ALBEMARLE COUNTY SIDEWALKS

COUNTY OF ALBEMARLE, VIRGINIA

AVON EXTENDED - CROSS SECTIONS

DATE	
DATE	10/28/2020
DRAWN BY	J. SHOWALTER
DESIGNED BY	J. SHOWALTER
CHECKED BY	J. HASH
SCALE	1"=10'
JOB NO.	33882.005
SHEET NO.	XS-20

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SCALE 1"=10'

TIMMONS GROUP

ALBEMARLE COUNTY SIDEWALKS

COUNTY OF ALBEMARLE, VIRGINIA

AVON EXTENDED - CROSS SECTIONS

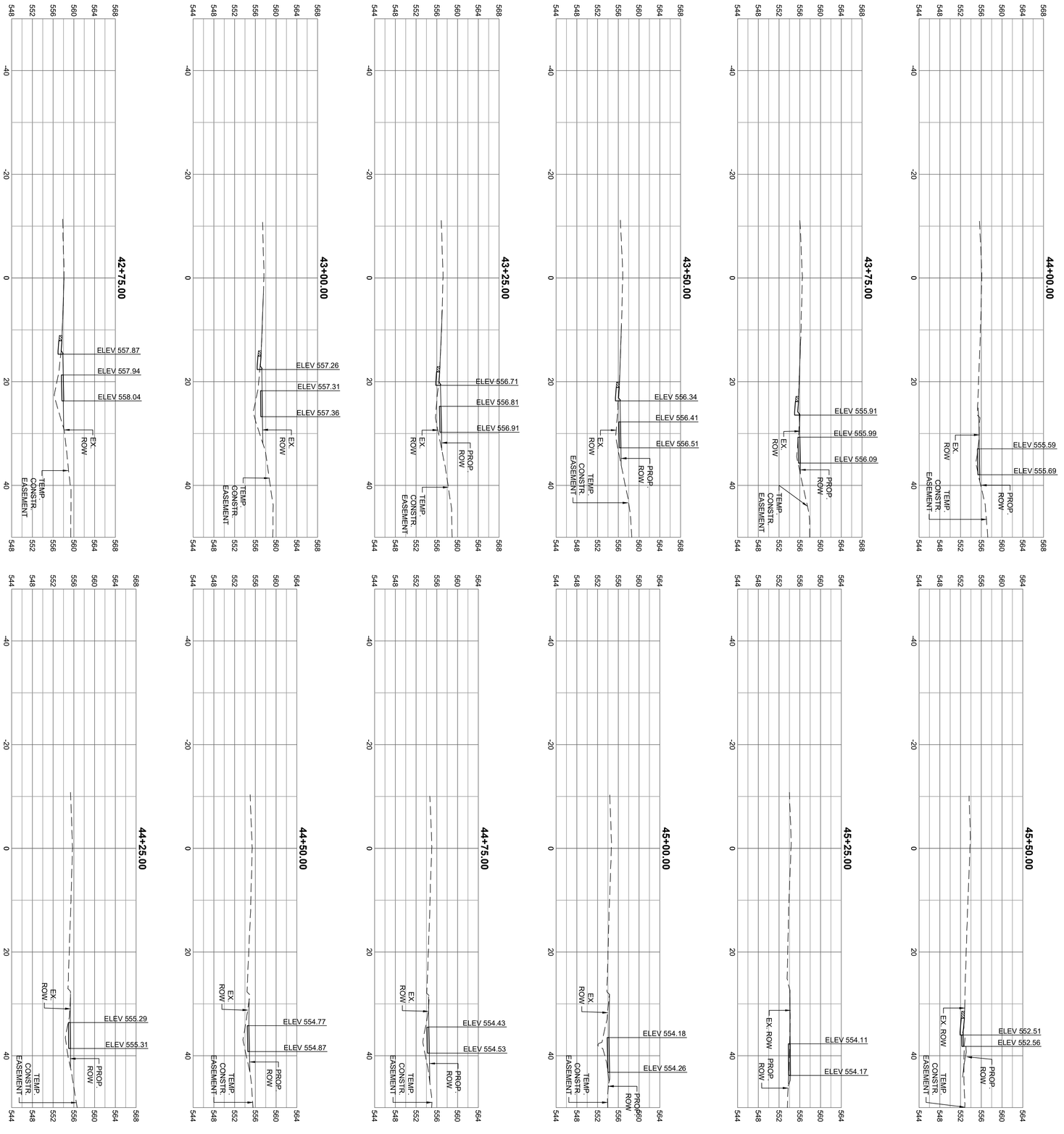
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ALBEMARLE COUNTY SIDEWALKS

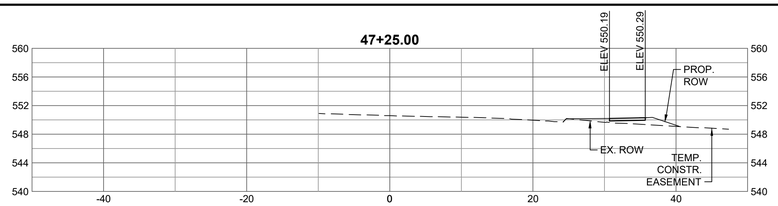
COUNTY OF ALBEMARLE, VIRGINIA

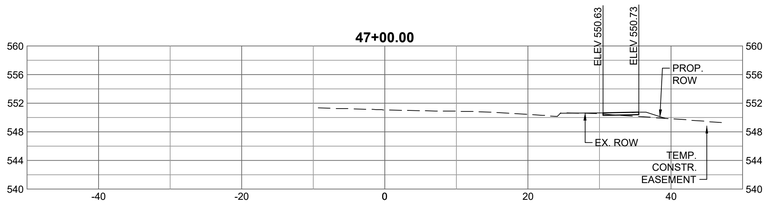
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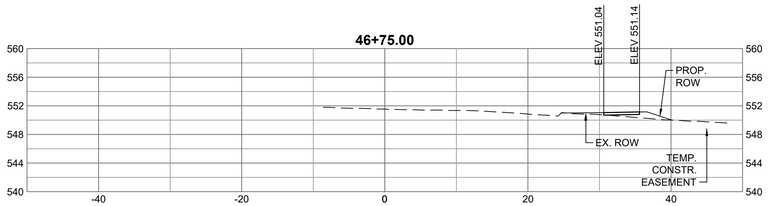
SHEET NO.	XS-22
JOB NO.	33882.005
SCALE	----
CHECKED BY	J. HASH
DESIGNED BY	J. SHOWALTER
DRAWN BY	J. SHOWALTER
DATE	10/28/2020

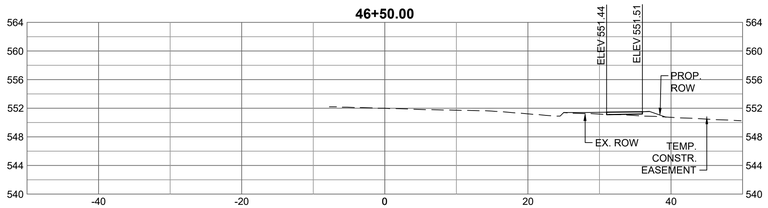
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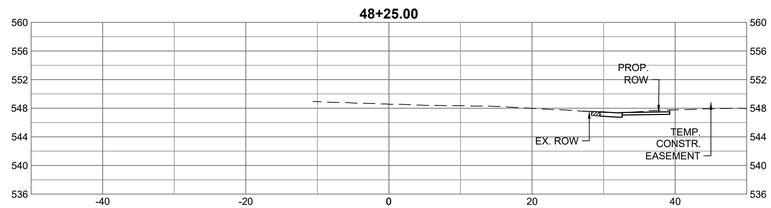
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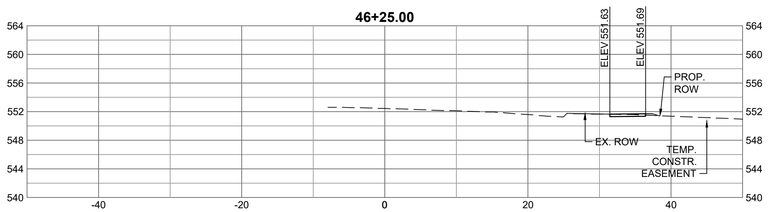


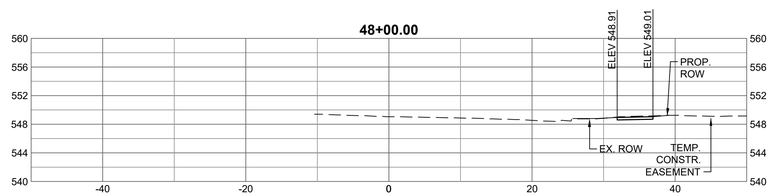


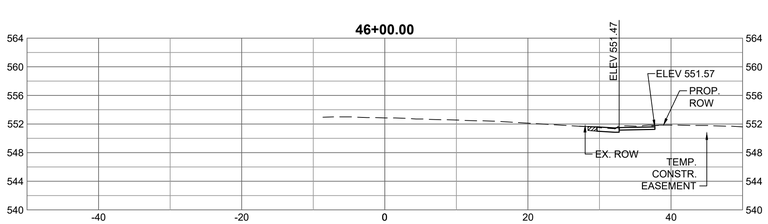


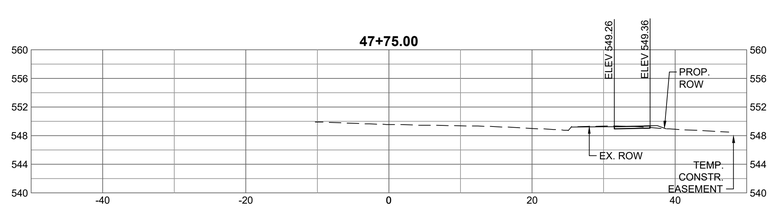


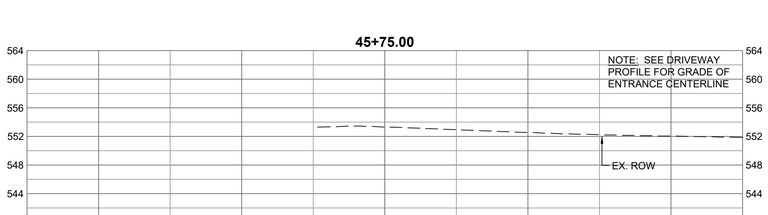


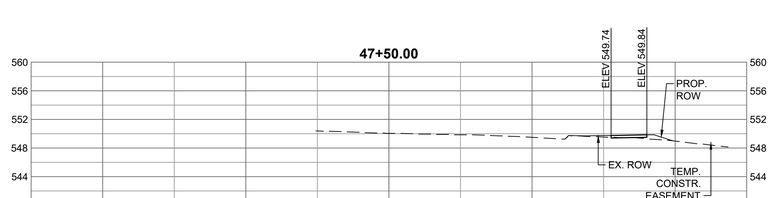












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JONATHAN M. SHOWALTER
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SCALE 1"=10'

TIMMONS GROUP

ALBEMARLE COUNTY SIDEWALKS
COUNTY OF ALBEMARLE, VIRGINIA
AVON EXTENDED - CROSS SECTIONS

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