FOR INDEX OF SHEETS SEE SHEET T002

THIS PROJECT WAS DEVELOPED UTILIZING THE DEPARTMENT'S ENGINEERING DESIGN PACKAGE (GEOPAK).
GEOPAK Computer Identification No. 113895

FHWA-534-
PPMS-

STATE	FEDERAL AID PROJECT	STATE ROUTE	STATE PROJECT	SHEET NO.
VA.			0657-034-908 SEE TABULATIONS BELOW FOR SECTION NUMBERS	T001

COMMONWEALTH OF VIRGINIA

FREDERICK COUNTY
PARKS & RECREATION

PLAN AND PROFILE OF PROPOSED
ABRAMS CREEK TRAIL

FUNCTIONAL CLASSIFICATION AND TRAFFIC DATA	
	Fr: To:
ADT	
ADT	
DHV	
D (%) (design hour)	
T (%) (design hour)	
V (MPH)	⊛

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

TIER 1 PROJECT

LOCALLY ADMINISTERED PROJECTS	
NAME OF LOCALITY	
NAME OF RESPONSIBLE LOCAL GOVERNMENT OFFICAL (TYPED)	
RECOMMENDED FOR APPROVAL FOR RIGHT OF WAY ACQUISITION	
DATE	TITLE OF POSITION
NAME OF RESPONSIBLE LOCAL GOVERNMENT OFFICAL (TYPED)	
RECOMMENDED FOR APPROVAL FOR CONSTRUCTION	
DATE	TITLE OF POSITION

RECOMMENDED FOR APPROVAL FOR RIGHT OF WAY ACQUISITION	
DATE	DISTRICT PLANNING AND INVESTMENT MANAGER
DATE	DISTRICT PROJECT DEVELOPMENT ENGINEER
APPROVED FOR RIGHT OF WAY ACQUISITION	
DATE	DISTRICT ENGINEER/ADMINISTRATOR

RECOMMENDED FOR APPROVAL FOR CONSTRUCTION	
DATE	DISTRICT PLANNING AND INVESTMENT MANAGER
DATE	DISTRICT PROJECT DEVELOPMENT ENGINEER
APPROVED FOR CONSTRUCTION	
DATE	DISTRICT ENGINEER/ADMINISTRATOR

DESCRIPTION REFERENCE
POC 00+00.00 PROP. RTE. 000
P. I. 00+00.00 CONN. RTE. 000

THE COMPLETE ELECTRONIC PDF VERSION OF THE PLAN ASSEMBLY AS AWARDED, INCLUDING ALL SUBSEQUENT REVISIONS, WILL BE THE OFFICIAL CONSTRUCTION PLANS. FOR INFORMATION RELATIVE TO ELECTRONIC FILES AND LAYERED PLANS, SEE GENERAL NOTES.

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

THIS PROJECT IS TO BE CONSTRUCTED IN ACCORDANCE WITH THE DEPARTMENT'S 2016 ROAD AND BRIDGE SPECIFICATIONS, 2016 ROAD AND BRIDGE STANDARDS, 2009 MUTCD, 2011 VIRGINIA SUPPLEMENT TO THE MUTCD, 2011 VIRGINIA WORK AREA PROTECTION MANUAL AND AS AMENDED BY CONTRACT PROVISIONS AND THE COMPLETE ELECTRONIC PDF VERSION OF THE PLAN ASSEMBLY.

ALL CURVES ARE TO BE SUPERELEVATED, TRANSITIONED AND WIDENED IN ACCORDANCE WITH STANDARD TC-5.11U, EXCEPT WHERE OTHERWISE NOTED.

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

PROJECT MANAGER
SURVEYED BY, DATE ..... MARSH AND LEGGE LAND SURVEYORS, P.L.C., AUGUST 22, 2022
DESIGN BY ..... BILL SHELTON
SUBSURFACE UTILITY BY, DATE

CONVENTIONAL SIGNS

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

POPULATION 96,000 (2023 CENSUS)

STATE PROJECT NO.	SECTION	FEDERAL AID PROJECT NO.	TYPE CODE	PPMS NO.	LENGTH INCLUDING BRIDGE(S) FEET	LENGTH INCLUDING BRIDGE(S) MILES	LENGTH EXCLUDING BRIDGE(S) FEET	LENGTH EXCLUDING BRIDGE(S) MILES	TYPE PROJECT	DESCRIPTION
0657-034-908					5375	1.02	5324	1.01		PLAN AND PROFILE OF PROPOSED ABRAMS CREEK TRAIL

NOTE: PROJECT LENGTH BASED ON CONSTRUCTION BASELINE

October 8, 2024

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FREDERICK COUNTY PARKS AND RECREATION

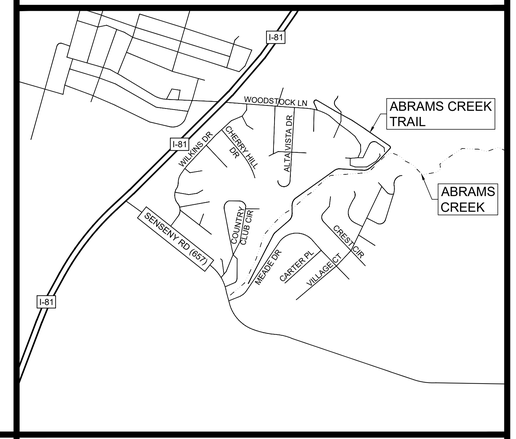
ABRAMS CREEK TRAIL

WINCHESTER, VIRGINIA

UPC #113895

PROJECT # 0657-034-908

VICINITY MAP



LOCATION MAP

LEGEND

EXISTING	DEMO	NEW	DESCRIPTION
2050		2050	CONTOURS
		112.00	SPOT ELEVATIONS
			CONCRETE CURB
			CONCRETE CURB & GUTTER
			CONCRETE PAD/WALK
			PAVEMENT
			GRAVEL
			BUILDING
			SITE FEATURES
X X	X X	X X	FENCING
			PROPERTY LINE
			CENTERLINE OR BASELINE
			BENCHMARK
SD	SD	SD	STORM SEWER LINE
			CURB INLET
			DROP INLET
			END SECTION / END WALL
			MANHOLE
OHE	OHE	OHE	ELECTRIC - OVERHEAD
UGE	UGE	UGE	ELECTRIC - UNDERGROUND
			EDGE OF STREAM / WATERLINE
			TEMPORARY EASEMENT
			PERMANENT EASEMENT
M	M	M	GAS METER
SS	SS	SS	SANITARY SEWER
		CO	CLEANOUT
W	W	W	WATER LINE
			GATE VALVE
M	M	M	WATER METER
			FIRE HYDRANT
			HANDICAP PARKING
			TREE LINE
			SIGNS

DRAWING INDEX

GENERAL NOTES

1. OWNER:
   FREDERICK COUNTY PARKS AND RECREATION
   107 N. KENT STREET, 2ND FLOOR
   WINCHESTER, VIRGINIA 22601
   CONTACT: JONATHAN TURKEL
   PHONE: (540) 665-5678
2. ARCHITECT/ENGINEER:
   ZMM ARCHITECTS AND ENGINEERS
   200 COUNTRY CLUB DRIVE
   PLAZA ONE, BUILDING "E"
   BLACKSBURG, VA 24060
   (540) 552-2151 FAX (540) 951-0219
3. SITE AREAS:
   TOTAL SITE AREA XX.XX ACRES
   PROJECT AREA XX.XX ACRES
4. ZONING: RP - RESIDENTIAL PERFORMANCE DISTRICT
5. MAGISTERIAL DISTRICT: RED BUD
6. PROPERTY INFORMATION:
   TAX PARCEL: 54-A-119, 54-A-121, 54-A-122
   CURRENT USE: XXXXX
   PROPOSED USE: XXXX
   PHYSICAL ADDRESS: 1716 WOODSTOCK LN
   WINCHESTER, VA 22604
7. CONTRACTOR SHALL HAVE A LICENSED LAND SURVEYOR RESET ANY BENCHMARKS DISTURBED DURING CONSTRUCTION AND SHALL NOTE THE NEW LOCATION AND ELEVATION ON THE AS-BUILT DRAWINGS.
8. ALL EXISTING SITE FEATURES DAMAGED AS A RESULT OF THE CONTRACTOR'S ACTIONS SHALL BE REPLACED OR REPAIRED AS DIRECTED BY THE ARCHITECT/ENGINEER AT NO ADDITIONAL COST TO THE OWNER.
9. A PRE CONSTRUCTION MEETING WILL BE HELD PRIOR TO BEGINNING CONSTRUCTION.
10. IT IS THE CONTRACTOR'S RESPONSIBILITY TO MEET COMPLIANCE REQUIREMENTS WITH SECTION 59.1-406.ET.SEQ., OF THE CODE OF VIRGINIA (OVERHEAD HIGH VOLTAGE LINES SAFETY ACT).
11. PREVIOUS APPROVED SITE PLANS INCLUDE: SITE PLANS (SP)
12. NO ADDITIONAL REQUIREMENTS OR CONDITIONS HAVE BEEN PLACED ON THE LAND INCLUDED IN THIS SITE PLAN RESULTING FROM APPROVAL OF CONDITIONAL ZONING OR A CONDITIONAL USE PERMIT.
13. NO ADDITIONAL SETBACKS ON CONDITIONS HAVE BEEN PLACED ON THE SITE AS A RESULT OF AN APPROVED VARIANCE.

PROJECT DESCRIPTION

THE PURPOSE OF THIS PROJECT IS TO CONSTRUCT AND CONNECT SECTIONS OF ABRAMS CREEK TRAIL. THIS WILL INCLUDE THE ADDITION OF A BRIDGE OVER ABRAMS CREEK, PAVING OF GRAVEL AREAS, AS WELL AS ADDING NEW SECTIONS. THE ENTIRE TRAIL AT THE END OF THE PROJECT WILL BE APPROXIMATELY 1 MILE.

COMMONWEALTH OF VIRGINIA
WILLIAM A. SHELTON
Lic. No. 031651
PROFESSIONAL ENGINEER

REVISIONS

NO.	DESCRIPTION	DATE

DATE 09.25.2024

COMM. NO. 2020-097

65% DESIGN SUBMITTAL

VICINITY PLAN T002

ZMM ARCHITECTS ENGINEERS

1116 South Main Street
Blacksburg, Virginia 24060
Phone: 540.552.2151
Fax: 540.951.0219

www.zmm.com

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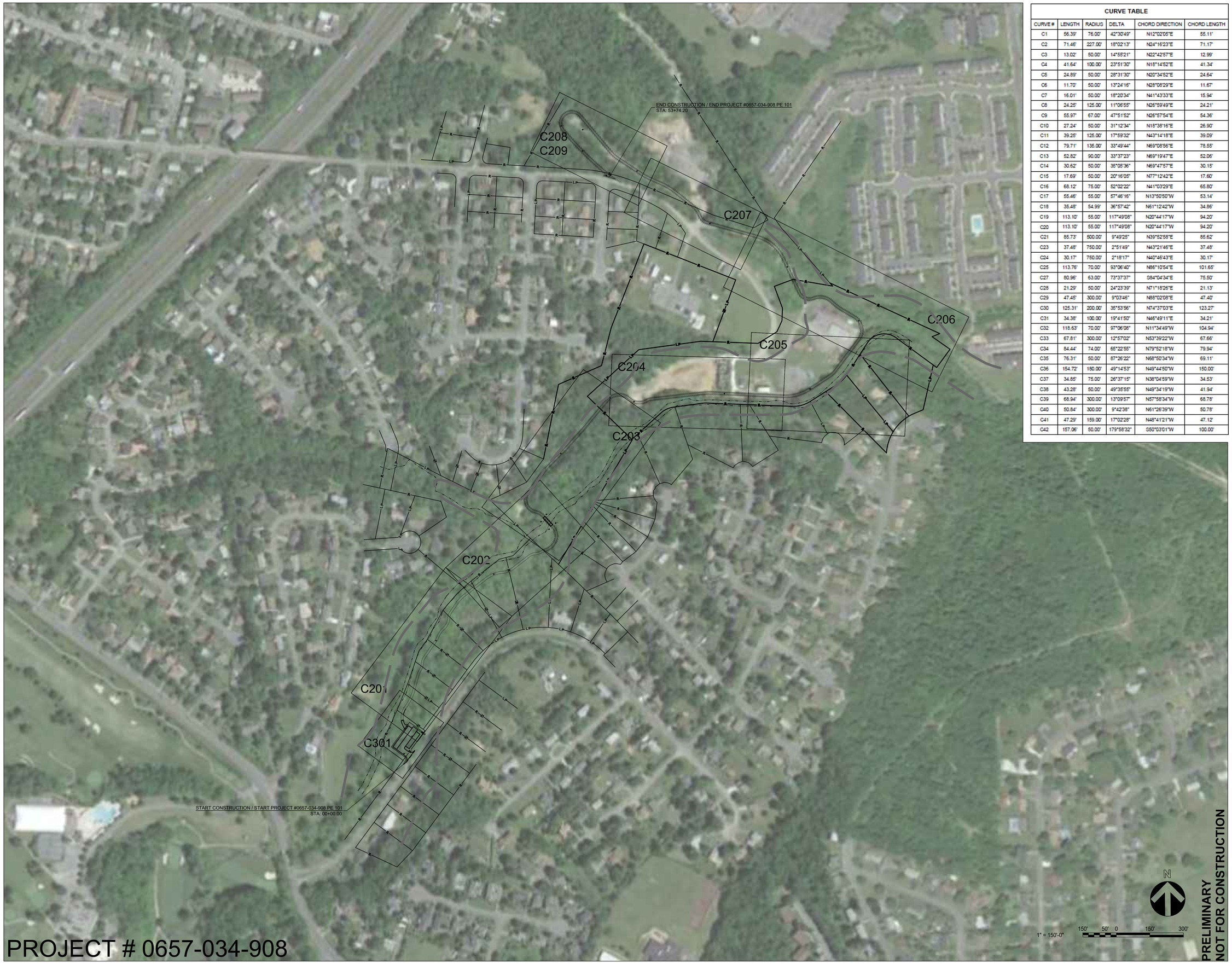


CURVE TABLE

CURVE #	LENGTH	RADIUS	DELTA	CHORD DIRECTION	CHORD LENGTH
C1	56.39'	76.00'	42°30'49"	N12°02'05"E	55.11'
C2	71.46'	227.00'	18°02'13"	N24°16'23"E	71.17'
C3	13.02'	50.00'	14°55'21"	N22°42'57"E	12.99'
C4	41.64'	100.00'	23°51'30"	N18°14'52"E	41.34'
C5	24.89'	50.00'	28°31'30"	N20°34'52"E	24.64'
C6	11.70'	50.00'	13°24'16"	N28°08'29"E	11.67'
C7	16.01'	50.00'	18°20'34"	N41°43'33"E	15.94'
C8	24.25'	125.00'	11°06'55"	N26°59'49"E	24.21'
C9	55.97'	67.00'	47°51'52"	N26°57'54"E	54.36'
C10	27.24'	50.00'	31°12'34"	N18°38'16"E	26.90'
C11	39.25'	125.00'	17°59'32"	N43°14'18"E	39.09'
C12	79.71'	135.00'	33°49'44"	N69°08'56"E	78.55'
C13	52.82'	90.00'	33°37'23"	N69°19'47"E	52.06'
C14	30.62'	50.00'	35°05'36"	N69°47'57"E	30.15'
C15	17.69'	50.00'	20°16'05"	N77°12'42"E	17.60'
C16	68.12'	75.00'	52°02'22"	N41°03'29"E	65.80'
C17	55.46'	55.00'	57°46'16"	N13°50'50"W	53.14'
C18	35.48'	54.99'	36°57'42"	N61°12'42"W	34.86'
C19	113.10'	55.00'	117°49'08"	N20°44'17"W	94.20'
C20	113.10'	55.00'	117°49'08"	N20°44'17"W	94.20'
C21	85.73'	500.00'	9°49'25"	N39°52'58"E	85.62'
C23	37.48'	750.00'	2°51'49"	N43°21'46"E	37.48'
C24	30.17'	750.00'	2°18'17"	N40°46'43"E	30.17'
C25	113.76'	70.00'	93°06'40"	N86°10'54"E	101.65'
C27	80.96'	63.00'	73°37'37"	S84°04'34"E	75.50'
C28	21.29'	50.00'	24°23'39"	N71°18'26"E	21.13'
C29	47.45'	300.00'	9°03'46"	N88°02'08"E	47.40'
C30	125.31'	200.00'	35°53'56"	N74°37'03"E	123.27'
C31	34.38'	100.00'	19°41'50"	N46°49'11"E	34.21'
C32	118.63'	70.00'	97°06'06"	N11°34'49"W	104.94'
C33	67.81'	300.00'	12°57'02"	N53°39'22"W	67.66'
C34	84.44'	74.00'	65°22'55"	N79°52'18"W	79.94'
C35	76.31'	50.00'	87°26'22"	N68°50'34"W	69.11'
C36	154.72'	180.00'	49°14'53"	N49°44'50"W	150.00'
C37	34.85'	75.00'	26°37'15"	N38°04'59"W	34.53'
C38	43.28'	50.00'	49°35'55"	N49°34'19"W	41.94'
C39	68.94'	300.00'	13°09'57"	N57°58'34"W	68.78'
C40	50.84'	300.00'	9°42'38"	N61°26'39"W	50.78'
C41	47.29'	159.00'	17°02'28"	N48°41'21"W	47.12'
C42	157.06'	50.00'	179°58'32"	S50°03'01"W	100.00'

ZMM ARCHITECTS ENGINEERS

1116 South Main Street
Blacksburg, VA 24060
Phone: 540.552.3151
Fax: 540.951.0219

222 Lee Street, West
Charleston, WV 25302
Phone: 304.342.0159
Fax: 304.345.8144

5550 Winchester Avenue
Berkeley Business Park, Suite 5
Martinsburg, WV 25405
Phone: 304.342.0159
www.zmm.com

REVISIONS	
NO.	DESCRIPTION	DATE

FREDERICK COUNTY PARKS AND RECREATION

ABRAMS CREEK TRAIL

WINCHESTER, VIRGINIA

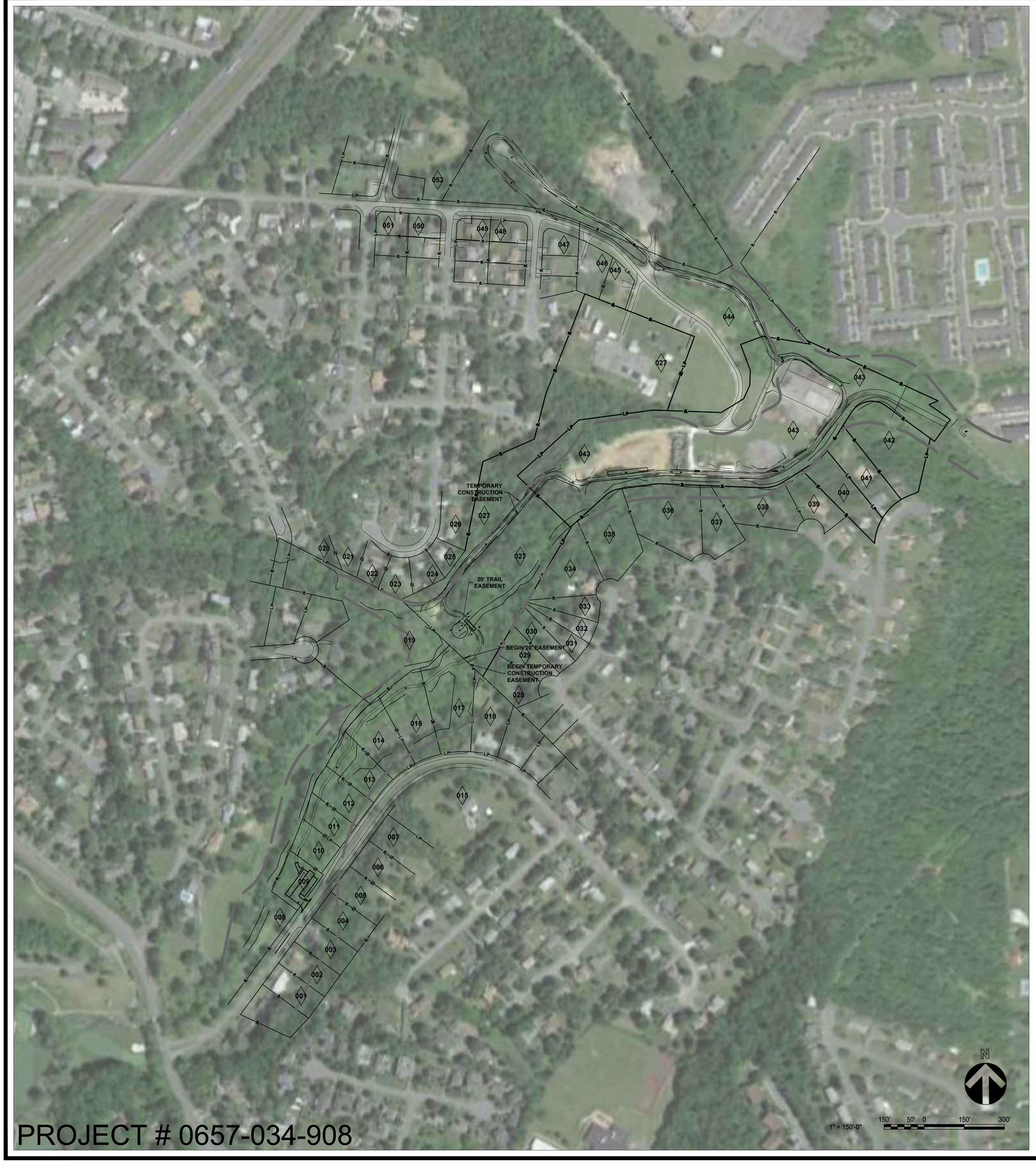
65% DESIGN SUBMITTAL

OVERALL SITE PLAN

DRAWN	CHECKED
LCK	WAS
	DATE 09.25.2024
	COMM. NO. 2020-097

C101

October 8, 2024 O:\2020 Projects\2020-097\Civil\Drawings\2020-097 Civil Sheets.dwg



PROJECT # 0657-034-908

PROPERTY INFORMATION

#	PIN	OWNER	DB/INST#/LOT#
001	54C-10-A-4	WALTER E. McINTOSH	INST. 190007619
002	54C-10-A-5	EDUARDO VERGANZA GUERRA	INST. 220007463
003	54C-10-A-6	DAVID G. WILSON	INST. 010001617
004	54C-10-A-7	WESTVIEW CUSTOM HOMES, LLC	INST. 210000230
005	54C-11-B-35	WESTVIEW CUSTOM HOMES, LLC	INST. 210007088
006	54C-11-B-34	WESTVIEW CUSTOM HOMES, LLC	INST. 210007088
007	54C-11-B-33	WESTVIEW CUSTOM HOMES, LLC	INST. 210007088
008	54C-10-8A	JOHN V. EDDY, JR.	DB 385 PG 519
009	54C-10-A-8	FREDERICK COUNTY, VIRGINIA	INST. 190004847
010	54C-11-B-1	FREDERICK COUNTY, VIRGINIA	INST. 190004847
011	54C-11-B-2	FREDERICK COUNTY, VIRGINIA	INST. 190004847
012	54C-11-B-3	FREDERICK COUNTY, VIRGINIA	INST. 190004847
013	54C-11-B-4	FREDERICK COUNTY, VIRGINIA	INST. 190004847
014	54C-11-B-5	FREDERICK COUNTY, VIRGINIA	INST. 190004847
015	54C-11-B-32	JOHN L. CLEVENGER	INST. 180002740
016	54C-11-B-6	FREDERICK COUNTY, VIRGINIA	INST. 190004847
017	54C-11-B-7	FREDERICK COUNTY, VIRGINIA	INST. 190004847
018	54C-11-B-8	DAVID NARRON	INST. 200004480
019	54C-6-2-16	A. MELVIN LEWIS SUBDIVISION SECTION TWO LOT 16	INST. 170008676
020	54C-2-4-41A	GREEN ACRES SECTION FOUR	LOT 41-A
021	54C-1-5-27	GREEN ACRES SECTION 5	LOT 27
022	54C-1-5-28	GREEN ACRES SECTION 5	LOT 28
023	54C-1-5-29	GREEN ACRES SECTION 5	LOT 29
024	54C-1-5-30	GREEN ACRES SECTION 5	LOT 30
025	54C-1-5-31	GREEN ACRES SECTION 5	LOT 31
026	54C-1-5-32	GREEN ACRES SECTION 5	LOT 32
027	54-A-122	THE CITY OF WINCHESTER	DB 382 PG 104
028	54H-1-10	ANNE B. HAWKINS	INST. 110005694
029	54H-1-11	KELSEY KERNAN	INST. 190010576
030	54H-1-12	MARY EFFLER-LANTZ & RICHARD LANTZ	INST. 030005377
031	54H-1-13	LEONARD W. FOLTZ & DEBORAH C. FOLTIZ	DB 444 PG 24
032	54H-1-14	LEONARD W. FOLTZ & DEBORAH C. FOLTIZ	DB 854 PG 354
033	54H-1-15	YONI ROMERO SANTOS HERNANDEZ	INST. 200000835
034	54H-1-16	SARAH C. ORRIS & EDWARD JAN ORRIS	INST. 210019637
035	54H-1-17	JERRY L. UPDYKE	DB 853 PG 1406
036	54H-1-41	CLARA V. WOOD	DB 527 PG 371
037	54H-1-42	DAVID B. BUNNER	DB 935 PG 269
038	54H-1-57	DONALD A. RICE	INST. 180008316
039	54H-1-58	HARRY K. JONES & DONNA J. JONES	INST. 020009439
040	54H-21A-97	STEPHEN M. PRICE	INST. 220013120
041	54H-21A-98	MICHEAL P. & SHERRY GAY KEENAN, TRUSTEES	INST. 220006038
042	54H-21A-99	GORDON W. COOPER, JR. & JENNY M. COOPER	INST. 160006748
043	54-A-121	THE CITY OF WINCHESTER	
044	54-A-119	THE CITY OF WINCHESTER	
045	54-A-120A	SANOTS A. RIVERA-CASTRO & MARIA D. MONTOYA-VAZQUEZ	INST. 050020410
046	54-A-120	TUCKAHOE SOLUTIONS, LLC	INST. 180004390
047	54C-1-5-78	GLEN D. MOHR, INC	INST. 120009330
048	54C-1-5-67	LARRY H. & JUDY B. GILHART	DB 480 PG 643
049	54C-1-5-50	ANGELA JOAN HILLYARD	INST. 030006156
050	54C-1-5-51	EDWARD W. HEISHMAN	INST. 000012448
051	54C-1-5-66	THOMAS TANGEN	INST. 160007319
052	54C-A-117	TRAVIS L. NESSELRODT	INST. 210009554

EASEMENT LEGEND

TRAIL EASEMENT

TEMPORARY TRAIL EASEMENT

UTILITY CONTACTS

SANITARY SEWER:
OWNER: CITY OF WINCHESTER
ADDRESS: ROUSS CITY HALL
WINCHESTER VA, 22601
POC: JOHN BORDOGNA
NUMBER: (540) 336-0234

PRELIMINARY NOT FOR CONSTRUCTION

ZMM ARCHITECTS ENGINEERS
1116 South Main Street
Blacksburg, VA 24060
Phone: 540.552.2151
Fax: 540.951.0219
222 Lee Street, West
Charleston, WV 25302
Phone: 304.342.6169
Fax: 304.345.8144
5550 Winchester Avenue
Berkeley Business Park, Suite 5
Martinsburg, WV 25405
Phone: 304.342.0159
www.zmm.com

NO.	DESCRIPTION	DATE

REVISIONS

FREDERICK COUNTY PARKS AND RECREATION

ABRAMS CREEK TRAIL

WINCHESTER, VIRGINIA

65% DESIGN SUBMITTAL

PROPERTY INFORMATION

DRAWN	CHECKED
LCK	WAS
	DATE 09.25.2024
	COMM. NO. 2020-097

C102

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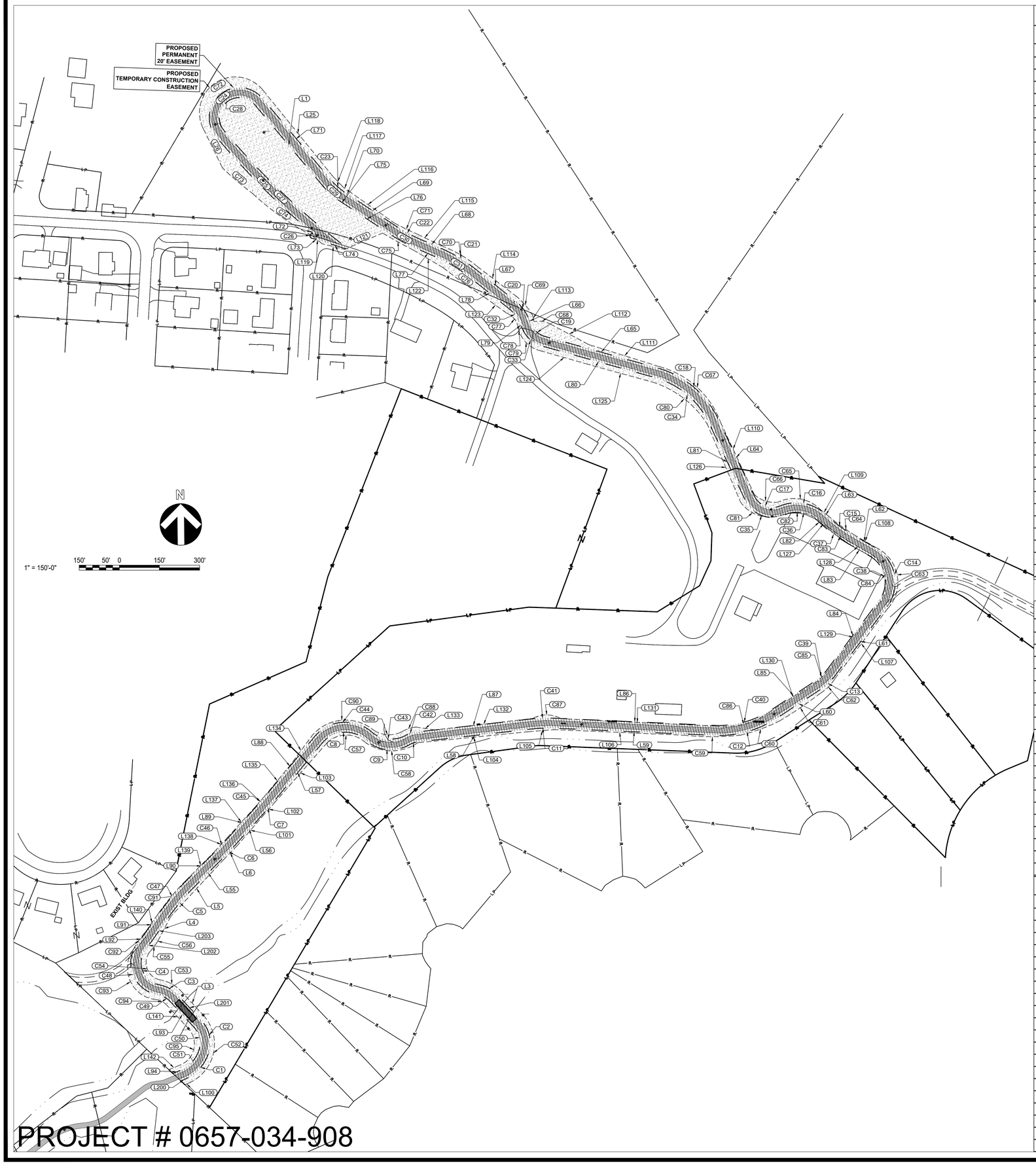

PROPOSED PERMANENT EASEMENT ACQUISITION

Parcel Line and Curve Table

Line #/Curve #	Length	Bearing/Delta	Radius
L200	12.40	N66° 53' 47.11"E	
C1	72.60	48.93	85.00
C2	65.54	57.77	65.00
L201	70.00	N42° 43' 58.48"W	
C3	41.93	36.96	65.00
C4	92.52	117.81	45.00
L202	17.57	N38° 10' 16.47"E	
L203	54.07	N35° 04' 21.40"E	
C5	84.01	9.82	490.00
L55	80.46	N44° 47' 40.10"E	
C6	37.98	2.86	760.00
L56	82.62	N41° 55' 51.14"E	
C7	30.57	2.30	760.00
L57	153.23	N39° 37' 34.23"E	
C8	97.51	93.11	60.00
C9	93.81	73.63	73.00
C10	17.03	24.39	40.00
L58	228.33	N83° 30' 15.66"E	
C11	45.87	9.06	290.00
L59	319.00	S87° 25' 58.71"E	

Parcel Line and Curve Table

Line #/Curve #	Length	Bearing/Delta	Radius
C12	131.58	35.90	210.00
L60	104.58	N56° 40' 05.69"E	
C13	37.82	19.70	110.00
L61	174.35	N36° 58' 15.33"E	
C14	135.58	97.10	80.00
L62	50.00	N60° 07' 52.64"W	
C15	65.55	12.95	290.00
L63	5.00	N47° 10' 50.66"W	
C16	95.85	65.38	84.00
C17	61.04	87.44	40.00
L64	168.55	N25° 07' 23.42"W	
C18	163.31	49.25	190.00
L65	233.98	N74° 22' 15.95"W	
C19	34.63	49.60	40.00
L66	19.28	N24° 46' 21.37"W	
C20	39.49	26.62	85.00
L67	102.47	N51° 23' 36.00"W	
C21	71.39	13.19	310.00
L68	58.17	N66° 17' 57.73"W	
C22	49.15	9.71	290.00

Parcel Line and Curve Table

Line #/Curve #	Length	Bearing/Delta	Radius
L69	116.33	N56° 35' 19.52"W	
L70	3.36	N56° 53' 57.13"W	
C23	44.30	17.03	149.00
L71	209.68	N39° 57' 48.03"W	
C24	188.47	179.98	60.00
C25	264.03	9.89	1529.34
L72	8.46	S51° 45' 54.76"E	
C26	15.62	178.96	5.00
L73	17.78	S75° 13' 22.31"E	
L74	62.60	S71° 52' 51.74"E	
C27	347.53	13.15	1514.59
C28	125.65	179.98	40.00
L1	209.72	S39° 57' 48.03"E	
C29	50.28	17.05	169.00
L75	3.14	S56° 53' 57.13"E	
L76	116.33	S56° 35' 19.52"E	
C30	52.54	9.71	310.00
L77	57.87	S66° 17' 57.73"E	
C31	66.49	13.14	290.00
L78	102.47	S51° 23' 36.00"E	

Parcel Line and Curve Table

Line #/Curve #	Length	Bearing/Delta	Radius
C32	30.20	26.62	65.00
L79	19.28	S24° 46' 21.37"E	
C33	51.94	49.60	60.00
L80	233.98	S74° 22' 15.95"E	
C34	146.12	49.25	170.00
L81	168.55	S25° 07' 23.42"E	
C35	91.57	87.44	60.00
C36	73.90	71.97	58.83
L82	5.00	S47° 10' 50.66"E	
C37	70.07	12.95	310.00
L83	50.00	S60° 07' 52.64"E	
C38	101.69	97.10	60.00
L84	174.35	S36° 58' 15.33"W	
C39	30.94	19.70	90.00
L85	104.58	S56° 40' 05.69"W	
C40	119.04	35.90	190.00
L86	319.00	N87° 25' 58.71"W	
C41	49.03	9.06	310.00
L87	228.33	S83° 30' 15.66"W	
C42	25.55	24.39	60.00

Parcel Line and Curve Table

Line #/Curve #	Length	Bearing/Delta	Radius
C43	66.76	62.30	61.40
C44	130.01	93.11	80.00
L88	153.23	S39° 37' 34.23"W	
C45	29.77	2.30	740.00
L89	82.62	S41° 55' 51.14"W	
C46	36.98	2.86	740.00
L90	80.46	S44° 47' 40.10"W	
C47	87.43	9.82	510.00
L91	53.23	S35° 03' 24.95"W	
L92	17.30	S38° 10' 16.47"W	
C48	134.50	119.75	64.36
C49	29.03	36.96	45.01
L93	70.00	S42° 43' 58.52"E	
C50	45.37	57.77	45.00
C51	59.04	52.04	65.00
L94	16.72	S67° 04' 40.10"W	
C76	101.69	4.91	1187.80

PROPOSED TEMPORARY CONSTRUCTION EASEMENT

Parcel Line and Curve Table

Line #/Curve #	Length	Bearing/Delta	Radius
L55	80.46	N44° 47' 40.10"E	
L100	7.74	N67° 04' 40.10"E	
C52	162.75	109.71	85.00
L3	63.95	N42° 43' 58.47"W	
C53	48.38	36.96	75.00
C54	71.72	117.41	35.00
C55	28.09	11.20	143.77
C56	28.09	11.20	143.77
L4	54.07	N27° 37' 14.20"E	
L5	152.54	N42° 55' 08.68"E	
L6	42.80	N43° 59' 17.69"E	
L101	77.81	N40° 50' 25.04"E	
L102	33.37	N41° 21' 57.82"E	
L103	158.82	N41° 13' 24.70"E	
C57	85.23	87.51	55.80
C58	110.49	69.31	91.34
L104	224.75	N84° 20' 43.66"E	
L105	49.65	N85° 22' 24.07"E	
L106	258.80	S87° 31' 29.02"E	
C59	111.60	12.77	500.79

Parcel Line and Curve Table

Line #/Curve #	Length	Bearing/Delta	Radius
C60	84.72	13.90	349.19
C61	95.48	6.35	861.94
C62	43.46	27.49	90.59
L107	174.05	N37° 00' 29.85"E	
C63	145.70	108.06	77.25
L108	46.66	N59° 39' 55.61"W	
C64	66.79	9.24	414.18
L109	20.36	N50° 49' 19.44"W	
C65	90.08	70.64	73.07
C66	51.53	50.64	58.30
L110	158.32	N25° 04' 24.47"W	
C67	169.95	54.76	177.81
L111	149.73	N72° 39' 55.50"W	
L112	88.61	N61° 52' 59.72"W	
C68	31.65	37.77	48.01
L113	14.58	N13° 32' 07.69"W	
C69	46.89	16.45	163.31
L114	99.31	N52° 35' 07.38"W	
C70	82.63	19.43	243.70
L115	51.77	N64° 18' 09.62"W	

Parcel Line and Curve Table

Line #/Curve #	Length	Bearing/Delta	Radius
C71	52.37	4.16	721.54
L116	110.31	N55° 00' 52.65"W	
L117	15.97	N54° 13' 19.11"W	
L118	28.61	N43° 41' 11.34"W	
L25	221.32	N39° 01' 35.01"W	
C72	207.60	167.03	71.21
L26	88.31	S26° 03' 18.44"E	
C73	77.07	6.70	658.72
C74	149.06	15.17	562.95
L119	23.36	S49° 52' 34.78"E	
L120	46.48	S75° 45' 15.79"E	
L121	82.64	N66° 43' 28.48"E	
C75	70.48	4.26	947.16
L122	68.02	S59° 19' 19.19"E	
C76	101.69	4.91	1187.80
L123	53.70	S54° 11' 29.16"E	
C77	40.88	62.72	37.34
C78	66.51	63.01	60.48
C79	66.51	63.01	60.48
L124	97.09	S74° 06' 28.49"E	

Parcel Line and Curve Table

Line #/Curve #	Length	Bearing/Delta	Radius
L125	136.90	S74° 33' 27.87"E	
C80	138.49	39.79	199.39
L126	168.82	S23° 08' 37.29"E	
C81	95.51	76.12	71.89
C82	76.10	60.18	72.45
L127	20.73	S52° 39' 45.51"E	
C83	51.44	8.15	361.57
L128	41.41	S60° 21' 53.12"E	
C84	119.86	100.86	68.09
L129	171.69	S37° 17' 45.91"W	
C85	32.69	17.44	107.38
L130	105.78	S57° 15' 26.58"W	
C86	119.83	43.09	159.33
L131	304.83	N87° 14' 39.81"W	
C87	58.78	57.82	58.25
L132	196.40	S83° 18' 30.12"W	
L133	38.24	N81° 20' 05.88"W	
C88	29.80	24.39	70.00
C89	59.18	59.58	56.92
C90	135.34	88.71	87.41

Parcel Line and Curve Table

Line #/Curve #	Length	Bearing/Delta	Radius
L134	76.22	S36° 31' 00.28"W	
L135	76.62	S39° 37' 34.23"W	
L136	29.78	S41° 00' 44.40"W	
L137	82.56	S42° 16' 15.81"W	
L138	36.92	S42° 24' 55.62"W	
L139	80.46	S44° 47' 40.10"W	
C91	87.61	9.82	511.00
L140	44.50	S34° 58' 16.67"W	
C92	43.69	13.59	184.21
C93	133.34	120.64	63.33
C94	22.59	36.96	35.02
L141	63.94	S42° 43' 58.47"E	
C95	90.23	114.42	45.18
L142	21.60	S67° 04' 40.10"W	

PRELIMINARY
NOT FOR CONSTRUCTION

PROJECT # 0657-034-908

ZMM ARCHITECTS ENGINEERS
1116 South Main Street
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Fax: 540.951.0219

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Fax: 304.345.8144

5550 Winchester Avenue
Berkeley Business Park, Suite 5
Martinsburg, WV 25405
Phone: 304.342.0159
www.zmm.com

NO.	REVISIONS DESCRIPTION	DATE

FREDERICK COUNTY PARKS AND RECREATION

ABRAMS CREEK TRAIL

WINCHESTER, VIRGINIA

65% DESIGN SUBMITTAL

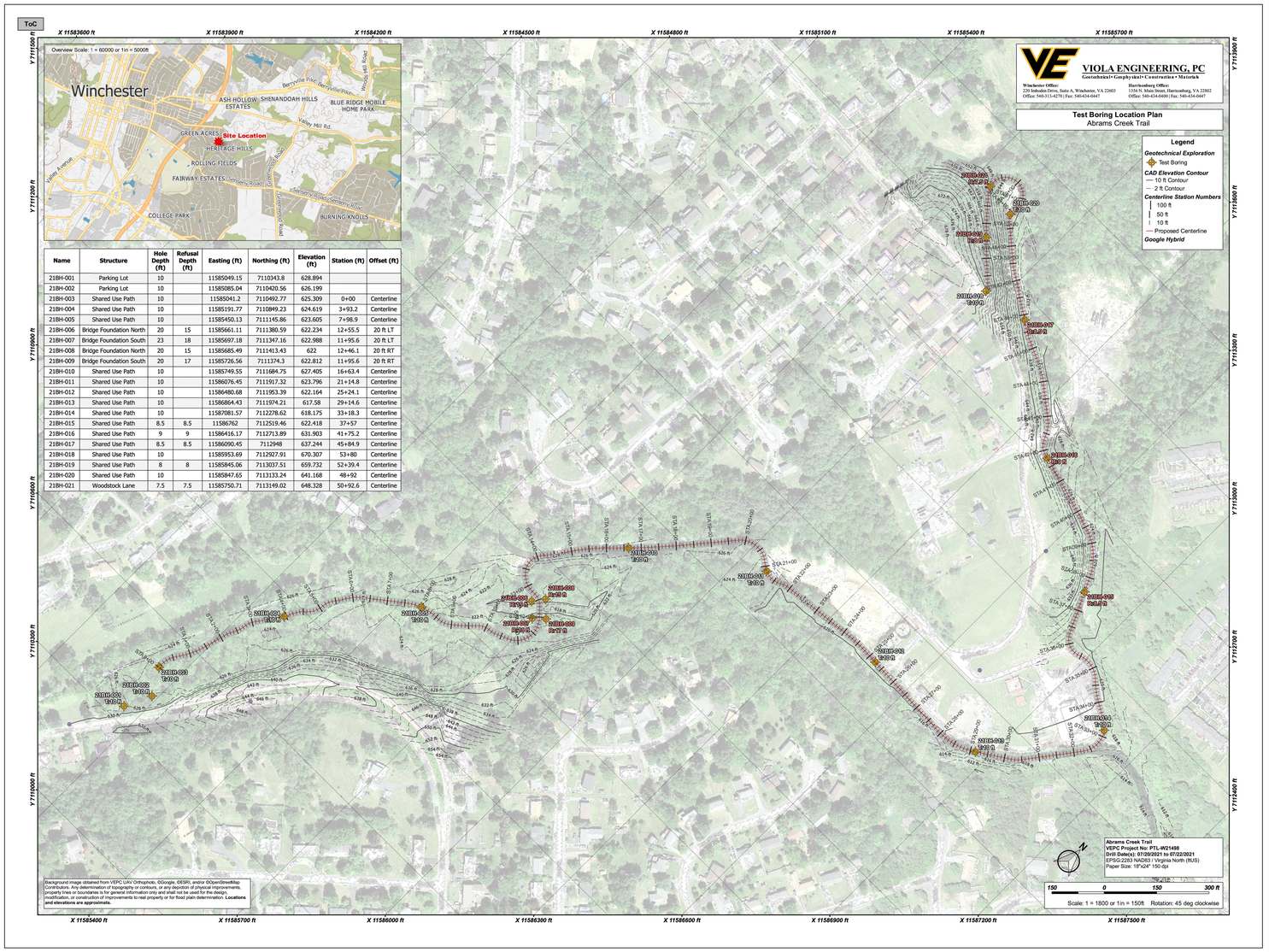
RIGHT OF WAY PLAN

DRAWN	CHECKED
LCK	WAS
	DATE 09.25.2024
	COMM. NO. 2020-097

C103

October 8, 2024 O:\2020 Projects\2020-097\Civ\Drawings\2020-097 Civil Sheets.dwg

SOILS MAP
SCALE: 1" = 200'



Name	Structure	Hole Depth (ft)	Refusal Depth (ft)	Easting (ft)	Northing (ft)	Elevation (ft)	Station (ft)	Offset (ft)
21BH-001	Parking Lot	10		11585049.15	7110343.8	628.894		
21BH-002	Parking Lot	10		11585085.04	7110420.56	626.199		
21BH-003	Shared Use Path	10		11585041.2	7110492.77	625.309	0+00	Centerline
21BH-004	Shared Use Path	10		11585191.77	7110849.23	624.619	3+93.2	Centerline
21BH-005	Shared Use Path	10		11585450.13	7111145.86	623.605	7+98.9	Centerline
21BH-006	Bridge Foundation North	20	15	11585661.11	7111380.59	622.234	12+55.5	20 ft LT
21BH-007	Bridge Foundation South	23	18	11585697.18	7111347.16	622.988	11+95.6	20 ft LT
21BH-008	Bridge Foundation North	20	15	11585685.49	7111413.43	622	12+46.1	20 ft RT
21BH-009	Bridge Foundation South	20	17	11585726.56	7111374.3	622.812	11+95.6	20 ft RT
21BH-010	Shared Use Path	10		11585749.55	7111684.75	627.405	16+63.4	Centerline
21BH-011	Shared Use Path	10		11586076.45	7111917.32	623.796	21+14.8	Centerline
21BH-012	Shared Use Path	10		11586480.68	7111953.39	622.164	25+24.1	Centerline
21BH-013	Shared Use Path	10		11586864.43	7111974.21	617.58	29+14.6	Centerline
21BH-014	Shared Use Path	10		11587081.57	7112278.62	618.175	33+18.3	Centerline
21BH-015	Shared Use Path	8.5	8.5	11586762	7112519.46	622.418	37+57	Centerline
21BH-016	Shared Use Path	9	9	11586416.17	7112713.89	631.903	41+75.2	Centerline
21BH-017	Shared Use Path	8.5	8.5	11586090.45	7112948	637.244	45+84.9	Centerline
21BH-018	Shared Use Path	10		11585953.69	7112927.91	670.307	53+80	Centerline
21BH-019	Shared Use Path	8	8	11585845.06	7113037.51	659.732	52+39.4	Centerline
21BH-020	Shared Use Path	10		11585847.65	7113133.24	641.168	48+92	Centerline
21BH-021	Woodstock Lane	7.5	7.5	11585750.71	7113149.02	648.328	50+92.6	Centerline

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Fax: 304.345.8144
5550 Winchester Avenue
Berkeley Business Park, Suite 5
Martinsburg, WV 25405
Phone: 304.342.0159
www.zmm.com

NO.	DESCRIPTION	DATE

REVISIONS

FREDERICK COUNTY PARKS AND RECREATION
ABRAMS CREEK TRAIL
WINCHESTER, VIRGINIA

65% DESIGN SUBMITTAL

GEOTECHNICAL INFORMATION

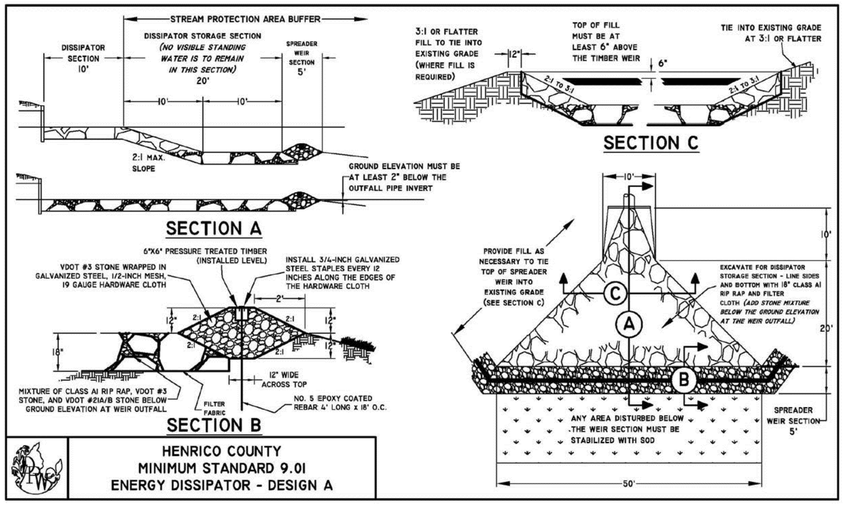
DRAWN	CHECKED
LCK	WAS
	DATE 09.25.2024
	COMM. NO. 2020-097

C104

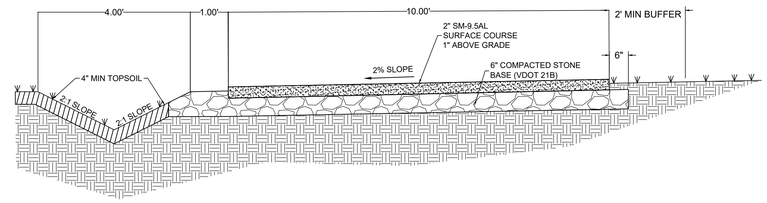
PRELIMINARY NOT FOR CONSTRUCTION

October 8, 2024 O:\2020 Projects\2020-097\Civil\Drawings\2020-097 Civil Sheets.dwg

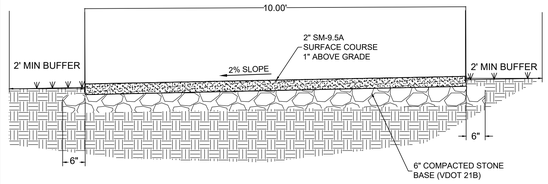
PROJECT # 0657-034-908



HENRICO COUNTY
MINIMUM STANDARD 9.01
ENERGY DISSIPATOR - DESIGN A



TYPICAL TRAIL CROSS SECTION
WITH DRAINAGE DITCH
NO SCALE



TYPICAL TRAIL CROSS SECTION
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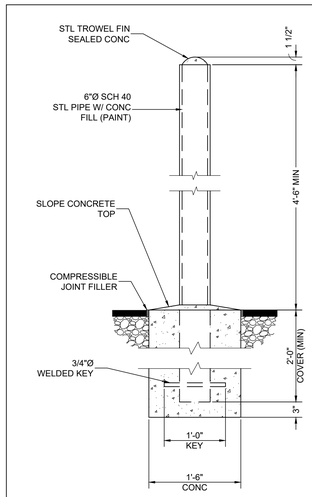

BOLLARD DETAIL
NO SCALE

ZMM ARCHITECTS ENGINEERS
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Fax: 540.951.0219
222 Lee Street, West
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Berkeley Business Park, Suite 5
Martinsburg, WV 25405
Phone: 304.342.0159
www.zmm.com

REVISIONS	
DESCRIPTION	DATE

FREDERICK COUNTY PARKS AND RECREATION
ABRAMS CREEK TRAIL
WINCHESTER, VIRGINIA

65% DESIGN SUBMITTAL

SITE DETAILS

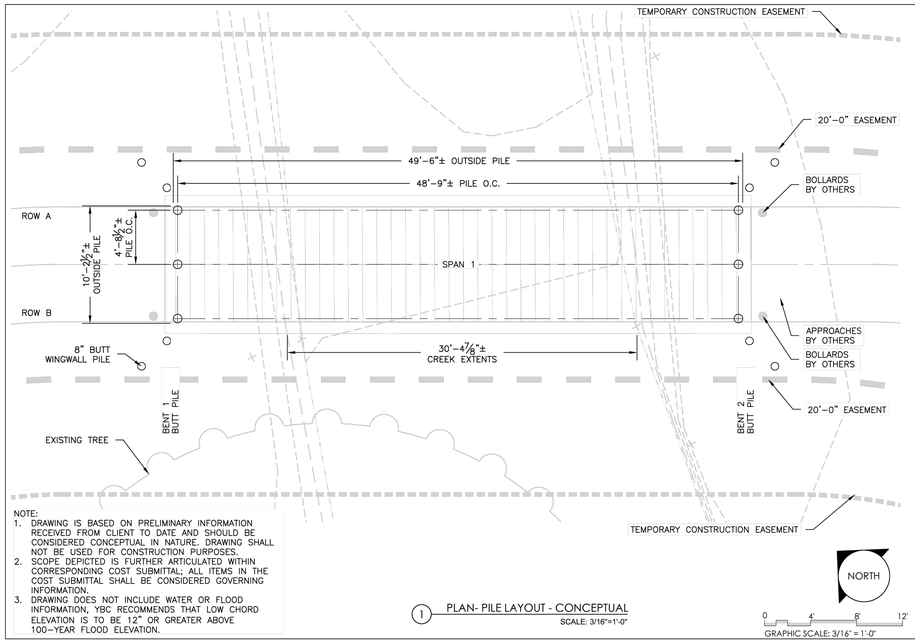
DRAWN	CHECKED
LCK	WAS
	DATE 09.25.2024
	COMM. NO. 2020-097

C105

PRELIMINARY NOT FOR CONSTRUCTION

PROJECT # 0657-034-908

October 8, 2024 O:\2020 Projects\2020-097\Civ\Drawings\2020-097 Civil Sheets.dwg



NOTE:
1. DRAWING IS BASED ON PRELIMINARY INFORMATION RECEIVED FROM CLIENT TO DATE AND SHOULD BE CONSIDERED CONCEPTUAL IN NATURE. DRAWING SHALL NOT BE USED FOR CONSTRUCTION PURPOSES.
2. SCOPE DEPICTED IS FURTHER ARTICULATED WITHIN CORRESPONDING COST SUBMITTAL; ALL ITEMS IN THE COST SUBMITTAL SHALL BE CONSIDERED GOVERNING INFORMATION.
3. DRAWING DOES NOT INCLUDE WATER OR FLOOD INFORMATION. YBC RECOMMENDS THAT LOW CHORD ELEVATION IS TO BE 12" OR GREATER ABOVE 100–YEAR FLOOD ELEVATION.

1 PLAN- PILE LAYOUT - CONCEPTUAL
SCALE: 3/16"=1'-0"

YORK BRIDGE CONCEPTS
THE PREMIER TIMBER BRIDGE COMPANY
2403 BRUNELLO TRACE LUTZ, FL 33558
WWW.YBC.COM 800.226.4178

CLIENT/CONTRACTOR:
WILLIAM A. SHELTON, P.E.
ZMM ARCHITECTS & ENGINEERS
5130 SOUTH MAIN STREET
BLACKSBURG, VA 24060
540.552.2151

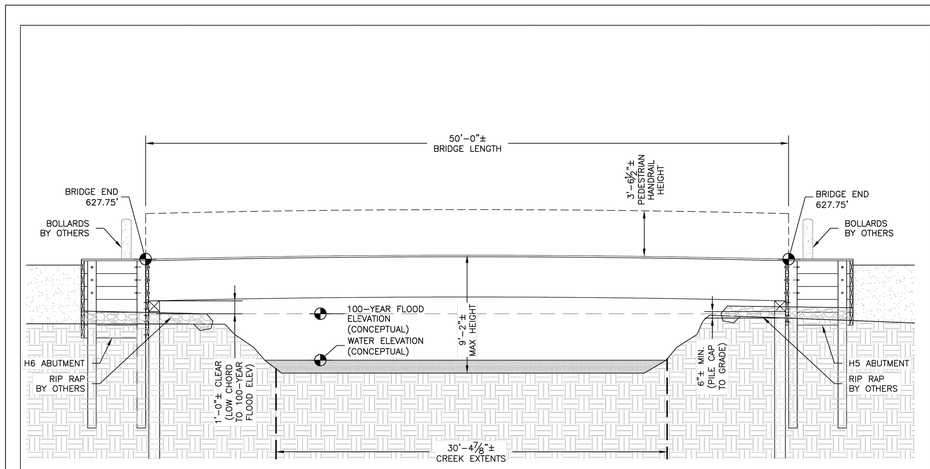
ZEYN UZMAN, PE
300 CHARLESTON GREENE WALKERS, PA 19350
ENGINEER OF RECORD

PROJECT INFORMATION:
ABRAMS CREEK TRAIL
LOADING: TIMBER PEDESTRIAN BRIDGE
DESIGN LOADING: N/A
DRAWN: 90 PSF (U-360)
LOCATION: WINCHESTER, VIRGINIA
DESIGNED: XXX-XXX

SUBMISSION INDEX

REV #	DATE	BY

DRAWN BY: K. LOVELL
DATE: 7/13/2023
PAGE NAME: PILE LAYOUT
SHEET NO: 101



GENERAL NOTES:
1. DRAWING IS CONCEPTUAL IN NATURE AND IS NOT TO BE USED FOR CONSTRUCTION PURPOSES.
2. LOW CHORD TO BE A MINIMUM OF 12 INCHES CLEAR OF THE 100–YEAR FLOOD ELEVATION, REQUIRED.
3. GRADING & RIP RAP DESIGN/INSTALLATION BY OTHERS; NO STEEPER THAN 2:1 WITH AT LEAST 6" CLEAR OF THE BOTTOM OF THE PILE CAP IS PREFERRED. RIP RAP IS RECOMMENDED FOR AREAS WHERE THE POTENTIAL FOR EROSION EXISTS.
4. MINIMUM OF 5' OFFSET FROM ALL EASEMENTS, ENVIRONMENTAL BUFFERS, OR SIMILAR RECOMMENDED, UNLESS OTHERWISE ALLOWED AS CONFIRMED BY AHJ.
5. CONSTRUCTION FROM GROUND OR FROM DECK CAN INFLUENCE DESIGN CONSIDERATIONS AND SHOULD BE NOTED IN DESIGN INTENT PER PROJECT.
6. 42" PEDESTRIAN HANDRAIL DESIGNED TO MEET 4" SPHERE RULE.
7. BRIDGE SLOPE NOT TO EXCEED 4.5% SLOPE FOR A CONTINUOUS PATH OR 7.5% IN AN ADA RAMP & LANDING CONFIGURATION.

1 ELEVATION - CONCEPTUAL
SCALE: NTS

YORK BRIDGE CONCEPTS
THE PREMIER TIMBER BRIDGE COMPANY
2403 BRUNELLO TRACE LUTZ, FL 33558
WWW.YBC.COM 800.226.4178
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5130 SOUTH MAIN STREET
BLACKSBURG, VA 24060
540.552.2151
ZEYN UZMAN, PE
300 CHARLESTON GREENE WALKERS, PA 19350
ENGINEER OF RECORD
PROJECT INFORMATION:
ABRAMS CREEK TRAIL
LOADING: TIMBER PEDESTRIAN BRIDGE
DESIGN LOADING: N/A
DRAWN: 90 PSF (U-360)
LOCATION: WINCHESTER, VIRGINIA
DESIGNED: XXX-XXX
SUBMISSION INDEX
REV # | DATE | BY

DRAWN BY: K. LOVELL
DATE: 7/13/2023
PAGE NAME: ELEVATION
SHEET NO: 200

ToC

VDOT Virginia Department of Transportation

PROJECT #: PTL-W21498
LOCATION: Woodstock Lane, Winchester, VA
STRUCTURE: BRIDGE FOUNDATION NORTH
21BH-006
PAGE 1 OF 1

STATION: 12+55.5 OFFSET: 20 ft LT
NORTHING: 7111380.59 ft Easting: 11585661.11 ft
SURFACE ELEVATION: 622.23 ft COORD. DATUM: VA North

FIELD DATA

Date(s) Drilled: 7/20/2021 - 7/20/2021
Drilling Method(s): 3 1/4 HSA/NQ Core
SPT Method: Automatic Hammer
Other Test(s):
Driller: Viola Engineering, PC
Logger: BRR

GROUND WATER
FIRST ENCOUNTERED AT 5.0 ft DEPTH (Elev. 617.23)
"NO LONG TERM MEASUREMENTS TAKEN"

LAB DATA

FIELD DESCRIPTION OF STRATA

0.0 / 622.23
TOPSOIL **TOPS**

1.0 / 621.23
ALLUVIUM: black gray, **SILTY SAND WITH GRAVEL**, very soft to soft, moist to wet, organic odor, **(SM) SM**

6.5 / 615.73
ALLUVIUM: dark gray, **SANDY SILT**, very soft to firm, wet, **(ML) ML**

Rock plug @ 12'

15.0 / 607.23
Moderately weathered, soft to medium hard, gray, **SILTSTONE**, moderately jointed to highly jointed, 75° bedding angle, damp, [Martinsburg Formation]
Rock plug @ 15' **SLS**

Bottom of Hole @ 602.23 ft Elevation

LL	PI	MOISTURE CONTENT (%)	FINES CONTENT #200 (%)
		29.0	
36	5	25.0	48.0
		33.0	
		40.0	
		18.0	

REMARKS: BM: VF-NODE-CONTROL (11586708,7112148).
Rig Type: CME 55 VE.
Location and elevations are approximate.

PAGE 1 OF 1
21BH-006

ToC

VDOT Virginia Department of Transportation

PROJECT #: PTL-W21498
LOCATION: Woodstock Lane, Winchester, VA
STRUCTURE: BRIDGE FOUNDATION SOUTH
21BH-007
PAGE 1 OF 1

STATION: 11+95.6 OFFSET: 20 ft LT
NORTHING: 7111347.16 ft Easting: 11585697.18 ft
SURFACE ELEVATION: 622.99 ft COORD. DATUM: VA North

FIELD DATA

Date(s) Drilled: 7/22/2021 - 7/22/2021
Drilling Method(s): 3 1/4 HSA/NQ Core
SPT Method: Automatic Hammer
Other Test(s):
Driller: Viola Engineering, PC
Logger: BRR

GROUND WATER
NOT ENCOUNTERED DURING DRILLING

LAB DATA

FIELD DESCRIPTION OF STRATA

0.0 / 622.99
TOPSOIL **TOPS**

0.25 / 622.74
ALLUVIUM: black gray, **SANDY SILT**, very soft, moist to wet, organic odor, **(ML) ML**

5.0 / 617.99
ALLUVIUM: dark gray to green, **SANDY LEAN CLAY**, very soft, wet, **(CL)**
Contains organics, @ 5' **CL**

14.5 / 608.49
ALLUVIUM: blue gray to green, **SANDY SILT WITH GRAVEL**, very stiff, moist, **(ML) ML**

18.0 / 604.99
Moderately weathered, soft to medium hard, gray, **SILTSTONE**, moderately jointed to highly jointed, 75° bedding angle, damp, [Martinsburg Formation] **SLS**
ASTM D7012 4430psi @ 166.2 pcf @ 20'

Bottom of Hole @ 599.99 ft Elevation

LL	PI	MOISTURE CONTENT (%)
		93.0
		32.0
		17.0

REMARKS: BM: VF-NODE-CONTROL (11586708,7112148).
Rig Type: CME 55 VE.
Location and elevations are approximate.

PAGE 1 OF 1
21BH-007

ToC

VDOT Virginia Department of Transportation

PROJECT #: PTL-W21498
LOCATION: Woodstock Lane, Winchester, VA
STRUCTURE: BRIDGE FOUNDATION NORTH
21BH-008
PAGE 1 OF 1

STATION: 12+46.1 OFFSET: 20 ft RT
NORTHING: 7111413.43 ft Easting: 11585685.49 ft
SURFACE ELEVATION: 622.0 ft COORD. DATUM: VA North

FIELD DATA

Date(s) Drilled: 7/20/2021 - 7/20/2021
Drilling Method(s): 3 1/4 HSA/NQ Core
SPT Method: Automatic Hammer
Other Test(s):
Driller: Viola Engineering, PC
Logger: BRR

GROUND WATER
NOT ENCOUNTERED DURING DRILLING

LAB DATA

FIELD DESCRIPTION OF STRATA

0.0 / 622.0
TOPSOIL **TOPS**

1.0 / 621.0
ALLUVIUM: gray to black, **SANDY SILT**, very soft to soft, moist to wet, organic odor, **(ML) ML**

10.0 / 612.0
ALLUVIUM: dark gray to green, **SANDY LEAN CLAY**, soft, wet, **(CL) CL**

15.0 / 607.0
Moderately weathered, soft to medium hard, gray, **SILTSTONE**, moderately jointed to highly jointed, 75° bedding angle, damp, [Martinsburg Formation] **SLS**
ASTM D7012 3640psi @ 156.7 pcf @ 17'

Bottom of Hole @ 602.0 ft Elevation

LL	PI	MOISTURE CONTENT (%)
		45.0
		31.0

REMARKS: BM: VF-NODE-CONTROL (11586708,7112148).
Rig Type: CME 55 VE.
Location and elevations are approximate.

PAGE 1 OF 1
21BH-008

ToC

VDOT Virginia Department of Transportation

PROJECT #: PTL-W21498
LOCATION: Woodstock Lane, Winchester, VA
STRUCTURE: BRIDGE FOUNDATION SOUTH
21BH-009
PAGE 1 OF 1

STATION: 11+95.6 OFFSET: 20 ft RT
NORTHING: 7111374.3 ft Easting: 11585726.56 ft
SURFACE ELEVATION: 622.81 ft COORD. DATUM: VA North

FIELD DATA

Date(s) Drilled: 7/22/2021 - 7/22/2021
Drilling Method(s): 3 1/4 HSA/NQ Core
SPT Method: Automatic Hammer
Other Test(s):
Driller: Viola Engineering, PC
Logger: BRR

GROUND WATER
STABILIZED AT 4.0 ft (Elev. 618.81) AFTER 1.5 HOURS

LAB DATA

FIELD DESCRIPTION OF STRATA

0.0 / 622.81
TOPSOIL
offset 20 ft south due to unstable ground @ 0' **TOPS**

0.5 / 622.31
ALLUVIUM: gray black to tan, **SANDY SILT**, very soft to soft, moist to wet, organic odor, **(ML) ML**

Contains organics, @ 5'

15.0 / 607.81
ALLUVIUM: black to gray, **SILT WITH GRAVEL**, very stiff, moist, **(ML) ML**

17.0 / 605.81
Moderately weathered, soft to medium hard, gray, **SILTSTONE**, highly jointed, 75° bedding angle, damp, [Martinsburg Formation] **SLS**

Bottom of Hole @ 602.81 ft Elevation

LL	PI	MOISTURE CONTENT (%)
		39.0
		24.0
		11.0

REMARKS: BM: VF-NODE-CONTROL (11586708,7112148).
Rig Type: CME 55 VE.
Location and elevations are approximate.

PAGE 1 OF 1
21BH-009

BRIDGE EXAMPLE PHOTOS
NO SCALE

PROJECT # 0657-034-908

ZMM ARCHITECTS ENGINEERS
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FREDERICK COUNTY PARKS AND RECREATION
ABRAMS CREEK TRAIL
WINCHESTER, VIRGINIA
65% DESIGN SUBMITTAL

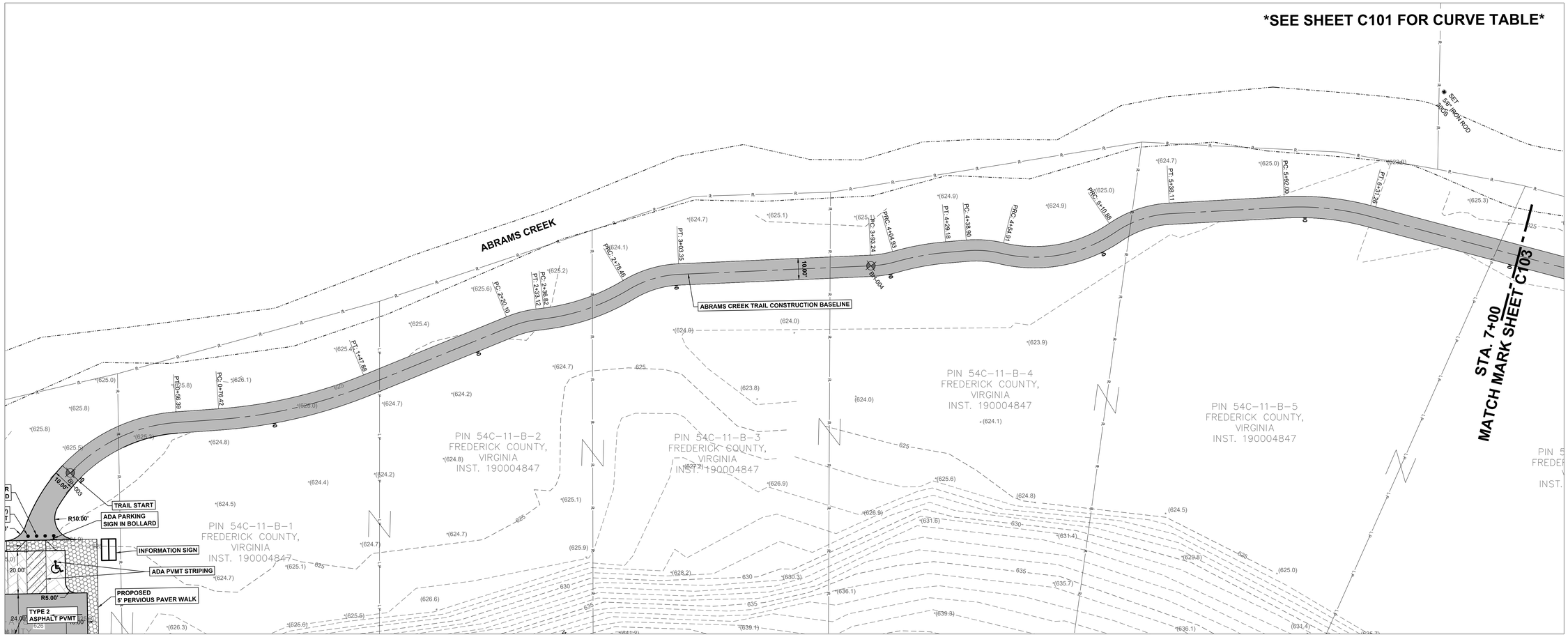
BRIDGE DETAILS

DRAWN	CHECKED
LCK JRF OYF	WAS
DATE	09.25.2024
COMM. NO.	2020-097

C106

October 8, 2024 O:\2020 Projects\2020-097\Civil\Drawings\2020-097 Civil Sheets.dwg

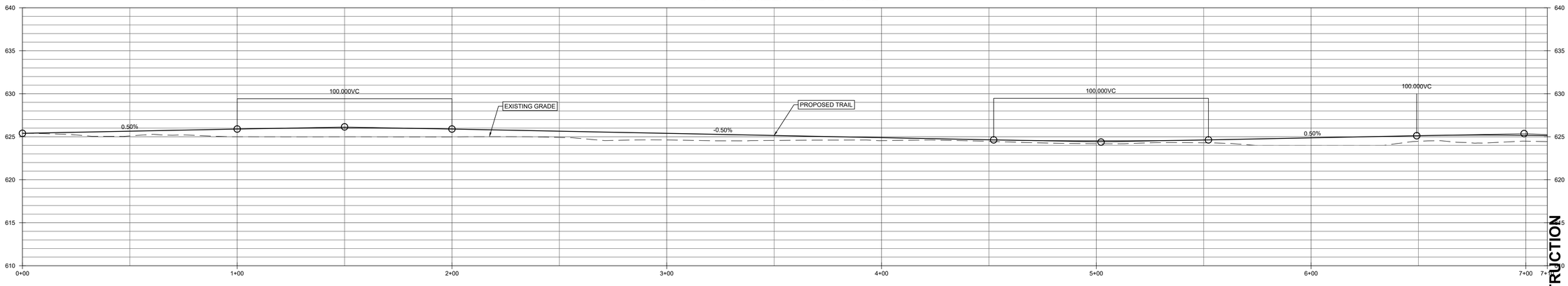
SEE SHEET C101 FOR CURVE TABLE



HORIZONTAL SCALE
1" = 20'-0"
20' 10' 0 20' 40'

VERTICAL SCALE
1" = 5'-0"
5' 2' 0 5' 10'

ABRAMS CREEK TRAIL PROFILE



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NOT FOR CONSTRUCTION

PROJECT # 0657-034-908

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DESCRIPTION	DATE
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FREDERICK COUNTY PARKS AND RECREATION
ABRAMS CREEK TRAIL
WINCHESTER, VIRGINIA

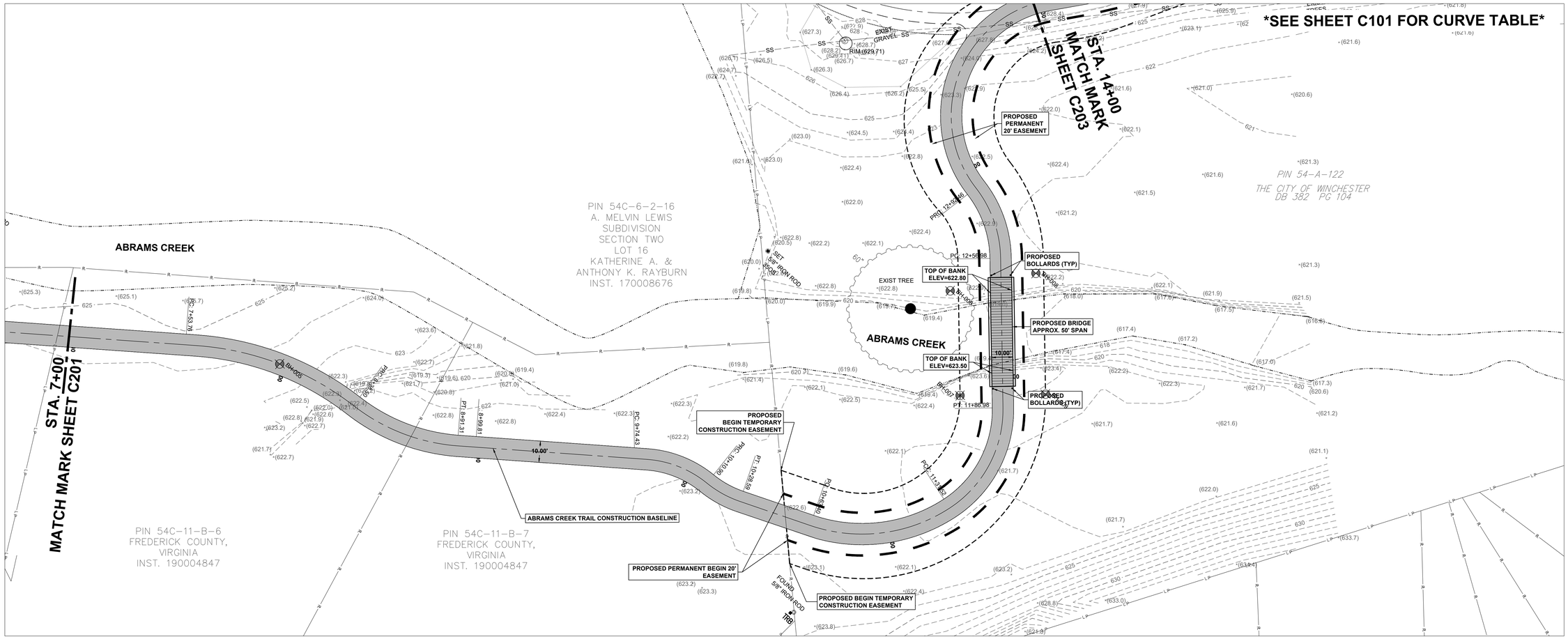
65% DESIGN SUBMITTAL

PLAN AND PROFILE 00+00 TO 07+00

DRAWN	CHECKED
LCK	WAS
	DATE 09.25.2024
	COMM. NO. 2020-097

C201

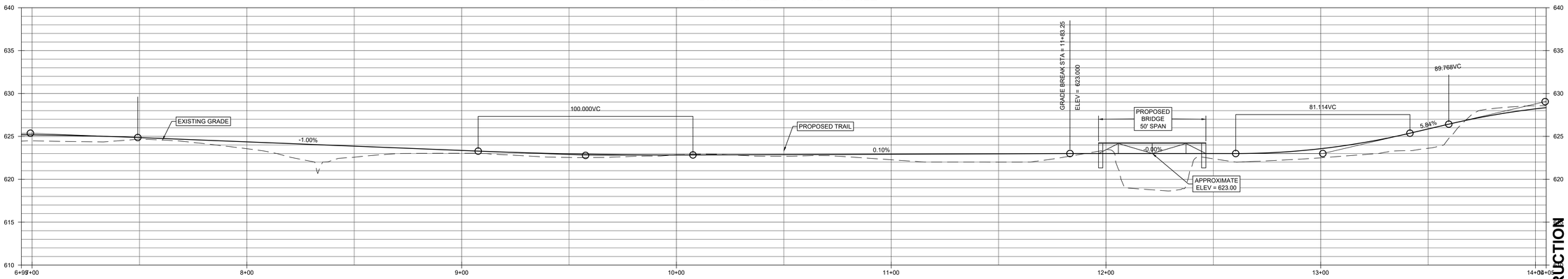
October 8, 2024
O:\2020 Projects\2020-097\Civil\Drawings\2020-097 Civil Sheets.dwg



HORIZONTAL SCALE
1" = 20'-0"
20' 10' 0 20' 40'

VERTICAL SCALE
1" = 5'-0"
5' 2' 0 5' 10'

ABRAMS CREEK TRAIL PROFILE



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REVISIONS

FREDERICK COUNTY PARKS AND RECREATION

ABRAMS CREEK TRAIL

WINCHESTER, VIRGINIA

65% DESIGN SUBMITTAL

PLAN AND PROFILE 07+00 TO 14+00

DRAWN	CHECKED
LCK	WAS
	DATE 09.25.2024
	COMM. NO. 2020-097

C202

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PROJECT # 0657-034-908

SEE SHEET C101 FOR CURVE TABLE

SEE INSET FOR FUTURE TRAIL EXTENSION

FUTURE TRAIL EXTENSION

PROPOSED PERMANENT 20' EASEMENT

PROPOSED TEMPORARY CONSTRUCTION EASEMENT

ABRAMS CREEK TRAIL CONSTRUCTION BASELINE

STA. 14+00 MATCH MARK SHEET C202

STA. 20+00 MATCH MARK SHEET C204

PROPOSED BOLLARDS (TYP)

PROPOSED BRIDGE APPROX. 50' SPAN

TOP OF BANK ELEV=622.80

TOP OF BANK ELEV=623.50

ABRAMS CREEK

GREEN ACRES SECTION 5 PIN 54C-1-5-30 LOT 30

GREEN ACRES SECTION 5 PIN 54C-1-5-31 LOT 31

GREEN ACRES SECTION 5 PIN 54C-1-5-32 LOT 32

THE CITY OF WINCHESTER PIN 54-A-122 DB 382 PG 104

PIN 54-A-122 THE CITY OF WINCHESTER DB 382 PG 104

THE CITY OF WINCHESTER PIN 54-A-121

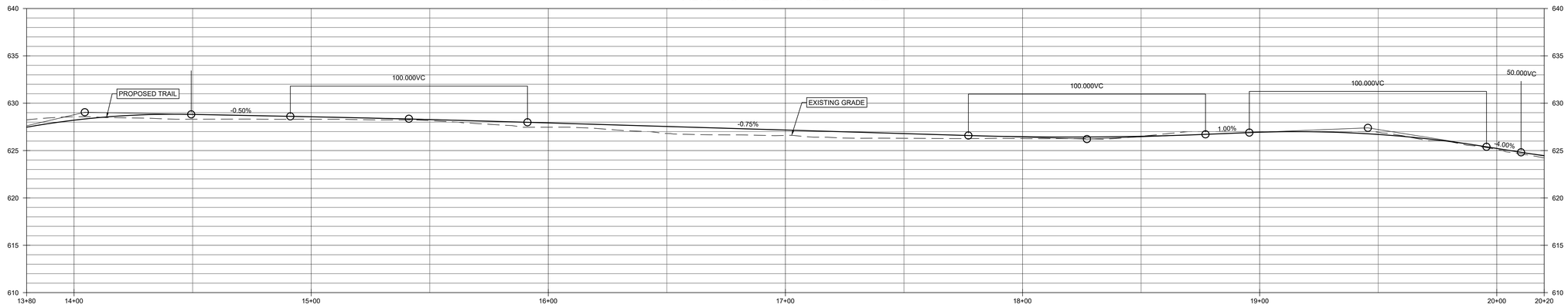
PIN 54C-6-2-16 A. MELVIN LEWIS SUBDIVISION SECTION TWO LOT 16 KATHERINE & ANTHONY K. RAYBURN INST. 170008676

FUTURE TRAIL EXTENSION INSET

HORIZONTAL SCALE
1" = 20'-0"

VERTICAL SCALE
1" = 5'-0"

ABRAMS CREEK TRAIL PROFILE



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PROJECT # 0657-034-908

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NO.	REVISIONS DESCRIPTION	DATE

FREDERICK COUNTY PARKS AND RECREATION

ABRAMS CREEK TRAIL

WINCHESTER, VIRGINIA

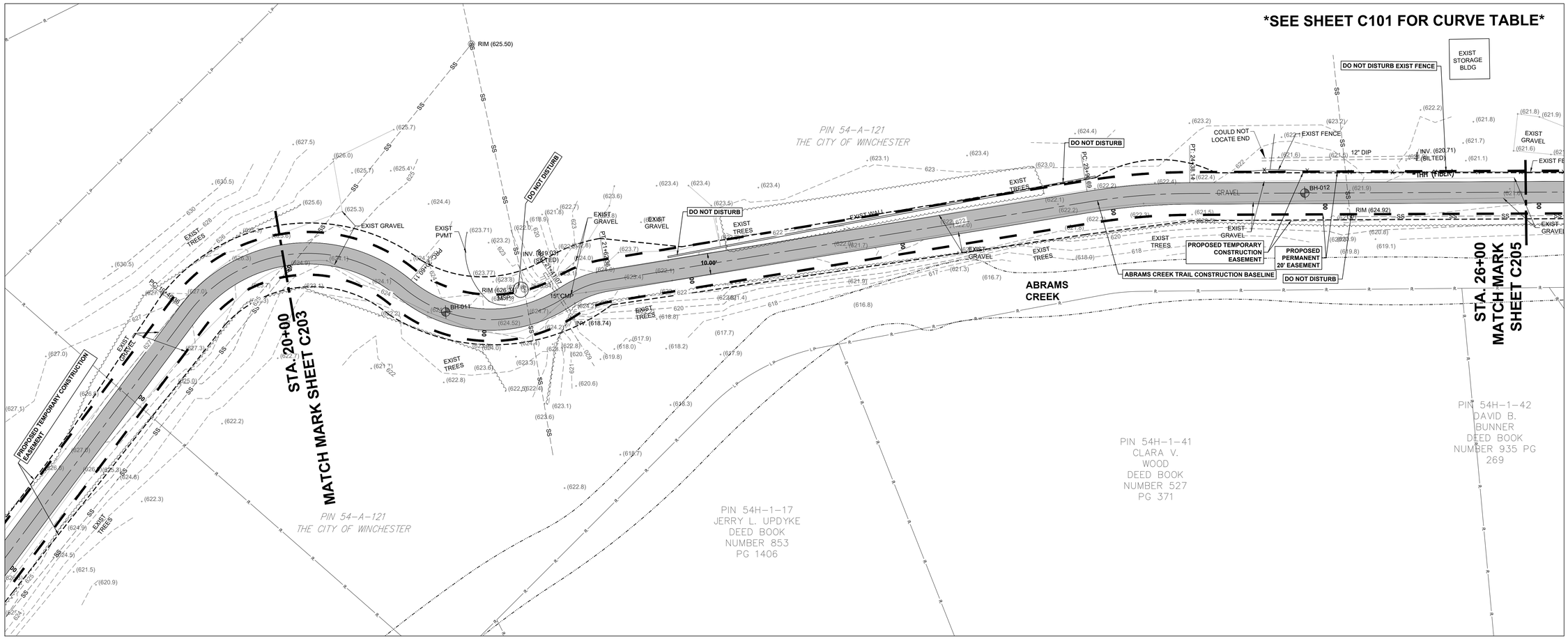
65% DESIGN SUBMITTAL

PLAN AND PROFILE 14+00 TO 20+00

DRAWN	CHECKED
LCK	WAS
	DATE 09.25.2024
	COMM. NO. 2020-097

C203

SEE SHEET C101 FOR CURVE TABLE



N

HORIZONTAL SCALE

1" = 20'-0"

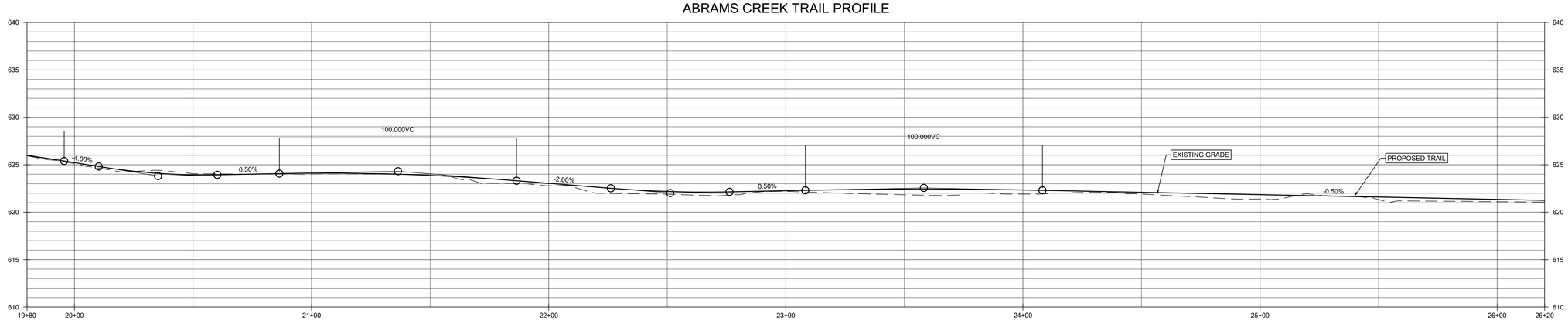
20' 10' 0 20' 40'

VERTICAL SCALE

1" = 5'-0"

5' 2' 0 5' 10'

ABRAMS CREEK TRAIL PROFILE



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NO.	REVISIONS DESCRIPTION	DATE

FREDERICK COUNTY PARKS AND RECREATION

ABRAMS CREEK TRAIL

WINCHESTER, VIRGINIA

65% DESIGN SUBMITTAL

PLAN AND PROFILE 20+00 TO 26+00

DRAWN	CHECKED
LCK	WAS
	DATE 09.25.2024
	COMM. NO. 2020-097

C204

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SEE SHEET C101 FOR CURVE TABLE

STA. 32+00
MATCH MARK
SHEET C206

STA. 26+00
MATCH MARK SHEET C204

PIN 54-A-121
THE CITY OF WINCHESTER

PIN 54H-21A-99
GORDON W. COOPER, JR.
& JENNY M. COOPER
INST. 160006748

PIN 54H-21A-98
MICHAEL P. &
SHERRY GAY KEENAN,
TRUSTEES
INST. 220006038

PIN 54H-21A-97
STEPHEN M. PRICE
INST. 220013120

PIN 54H-1-58
HARRY K. JONES & DONNA J.
JONES
INST. 020009439

ABRAMS CREEK

EXIST PVMT

EXIST FENCE

EXIST STORAGE BLDG

EXIST STORAGE SHED

EX. METAL BLDG.
F.F.E. (621.55)

EXIST GRAVEL

EXIST TREES

DO NOT DISTURB EXIST FENCE

ABRAMS CREEK TRAIL CONSTRUCTION BASELINE

PROPOSED TEMPORARY CONSTRUCTION EASEMENT

PROPOSED PERMANENT 20' EASEMENT

THH (FIBER)

INV. (620.71)
(SILTED)

RIM (621.00)

RIM=620.37

10.00'

PC: 26+82.02

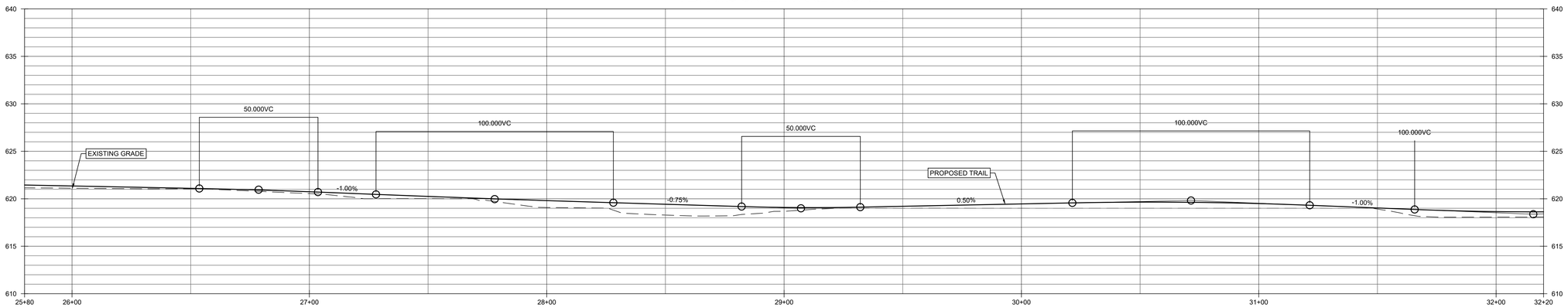
PT: 30+21

PC: 27+87.14

HORIZONTAL SCALE
1" = 20'-0"
20' 10' 0 20' 40'

VERTICAL SCALE
1" = 5'-0"
5' 2' 0 5' 10'

ABRAMS CREEK TRAIL PROFILE



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PROJECT # 0657-034-908

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NO.	REVISIONS DESCRIPTION	DATE

FREDERICK COUNTY PARKS AND RECREATION

ABRAMS CREEK TRAIL

WINCHESTER, VIRGINIA

65% DESIGN SUBMITTAL

PLAN AND PROFILE 26+00 TO 32+00

DRAWN	CHECKED
LCK	WAS
	DATE 09.25.2024
	COMM. NO. 2020-097

C205

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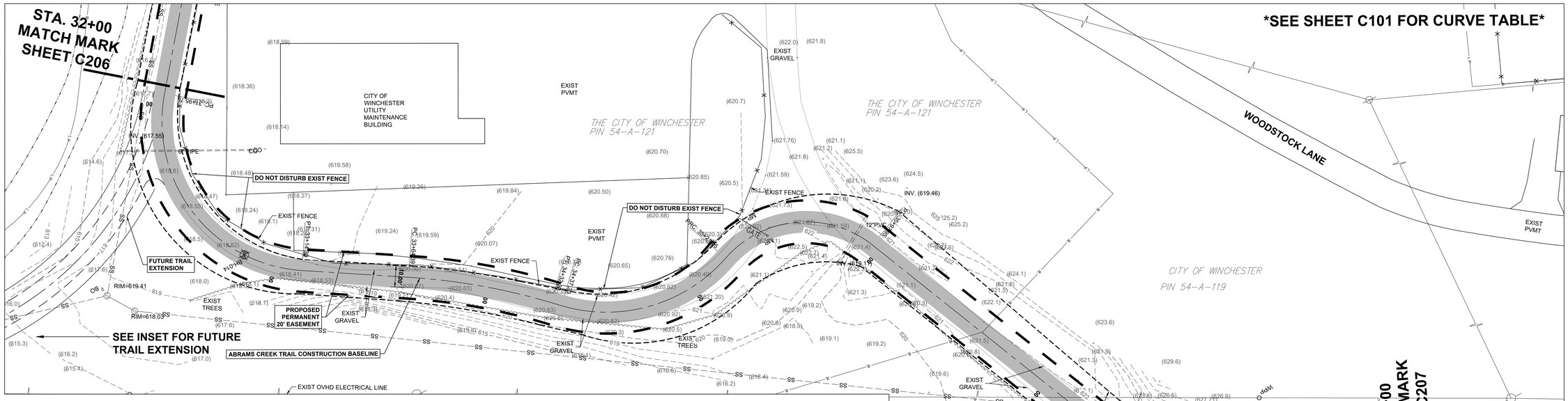
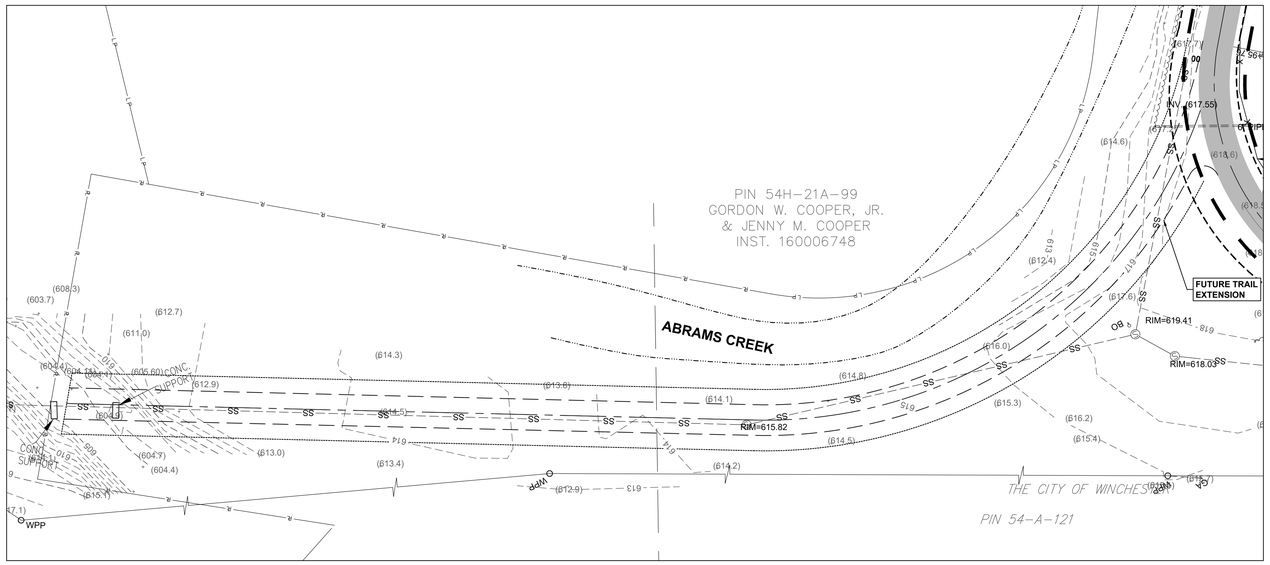


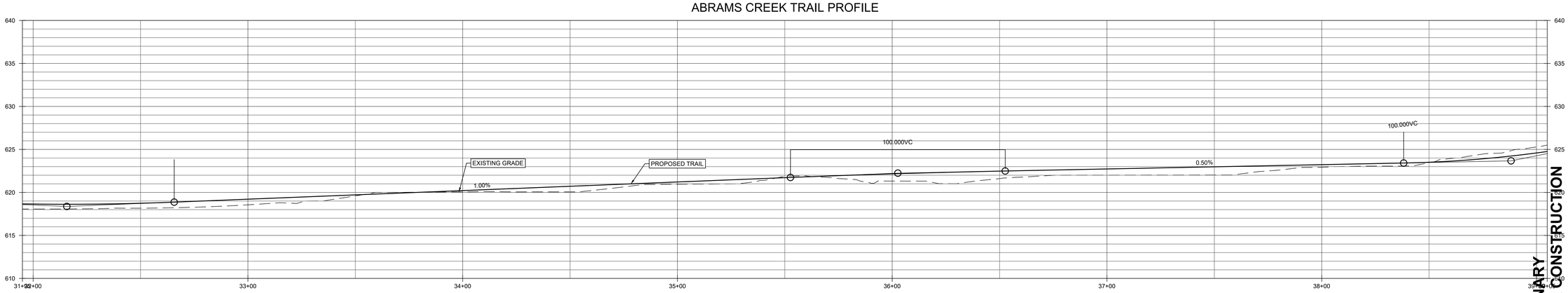


FUTURE TRAIL EXTENSION INSET

HORIZONTAL SCALE
1" = 20'-0"

VERTICAL SCALE
1" = 5'-0"

ABRAMS CREEK TRAIL PROFILE



PROJECT # 0657-034-908

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NO.	REVISIONS DESCRIPTION	DATE

FREDERICK COUNTY PARKS AND RECREATION
ABRAMS CREEK TRAIL
WINCHESTER, VIRGINIA

65% DESIGN SUBMITTAL

PLAN AND PROFILE 32+00 TO 39+00

DRAWN	CHECKED
LCK	WAS
	DATE 09.25.2024
	COMM. NO. 2020-097

C206

PRELIMINARY NOT FOR CONSTRUCTION

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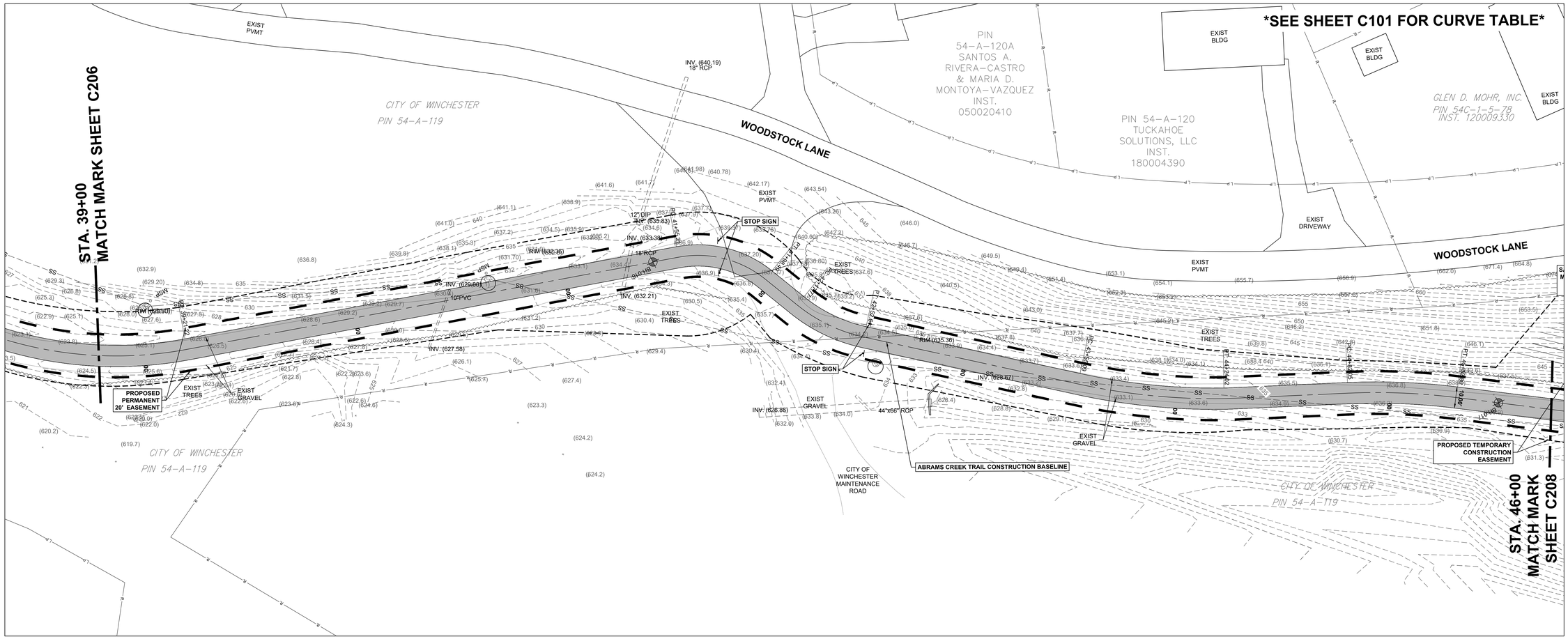
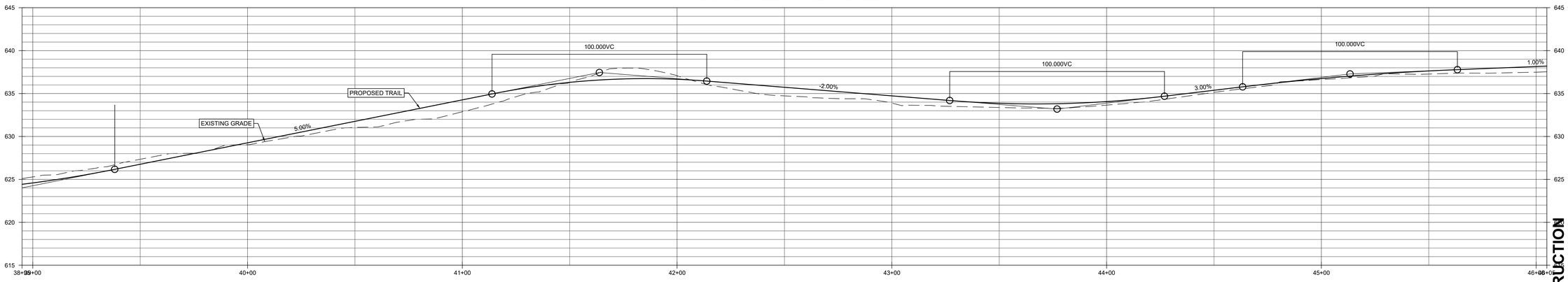


HORIZONTAL SCALE
1" = 20'-0"
20' 10' 0 20' 40'

VERTICAL SCALE
1" = 5'-0"
5' 2' 0 5' 10'

ABRAMS CREEK TRAIL PROFILE



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PROJECT # 0657-034-908

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REVISIONS NO.	DESCRIPTION	DATE

FREDERICK COUNTY PARKS AND RECREATION
ABRAMS CREEK TRAIL
WINCHESTER, VIRGINIA

65% DESIGN SUBMITTAL

PLAN AND PROFILE 39+00 TO 46+00

DRAWN	CHECKED
LCK	WAS
	DATE 09.25.2024
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C207

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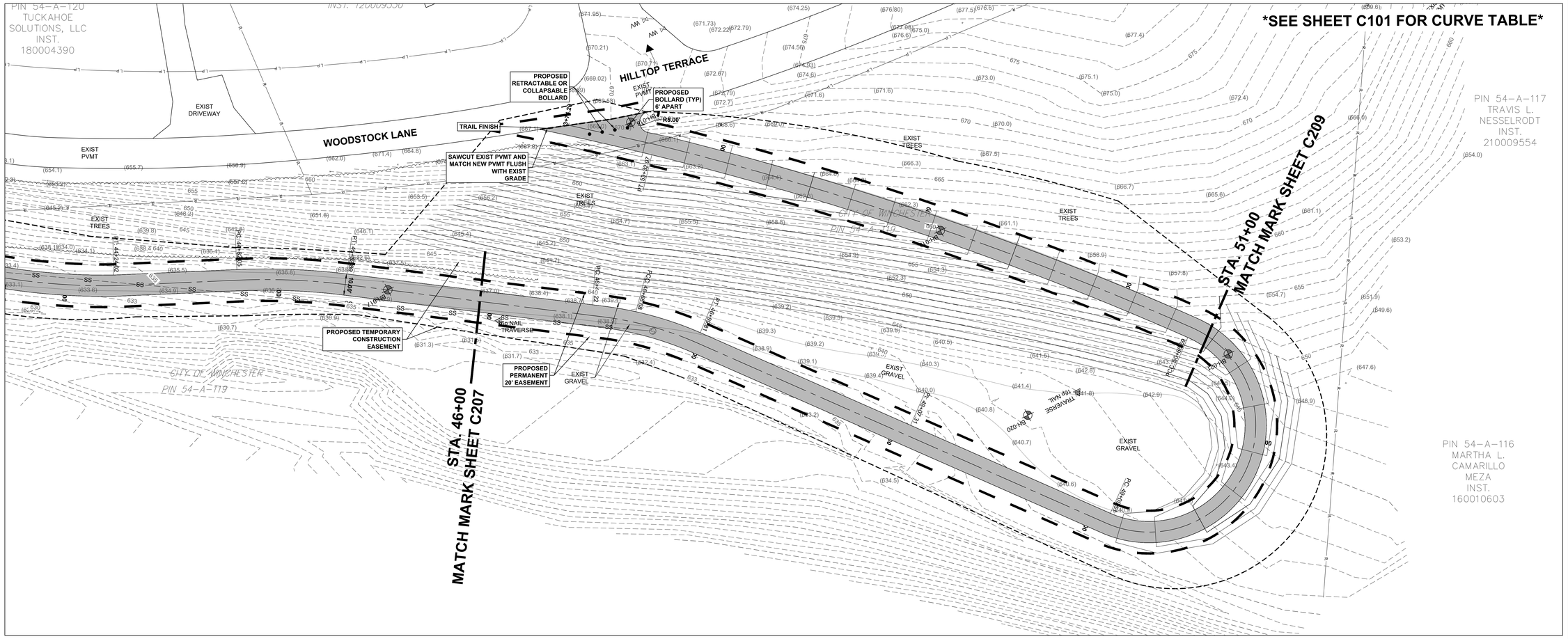
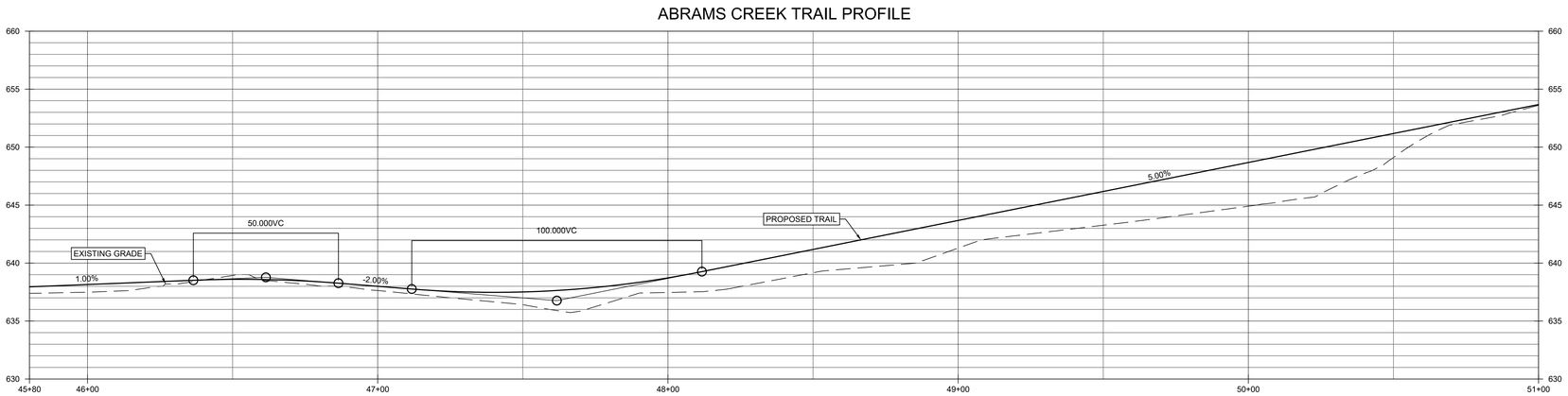


HORIZONTAL SCALE
1" = 20'-0"
20' 10' 0 20' 40'

VERTICAL SCALE
1" = 5'-0"
5' 2' 0 5' 10'



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FREDERICK COUNTY PARKS AND RECREATION

ABRAMS CREEK TRAIL

WINCHESTER, VIRGINIA

65% DESIGN SUBMITTAL

PLAN AND PROFILE 46+00 TO 51+00

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C208

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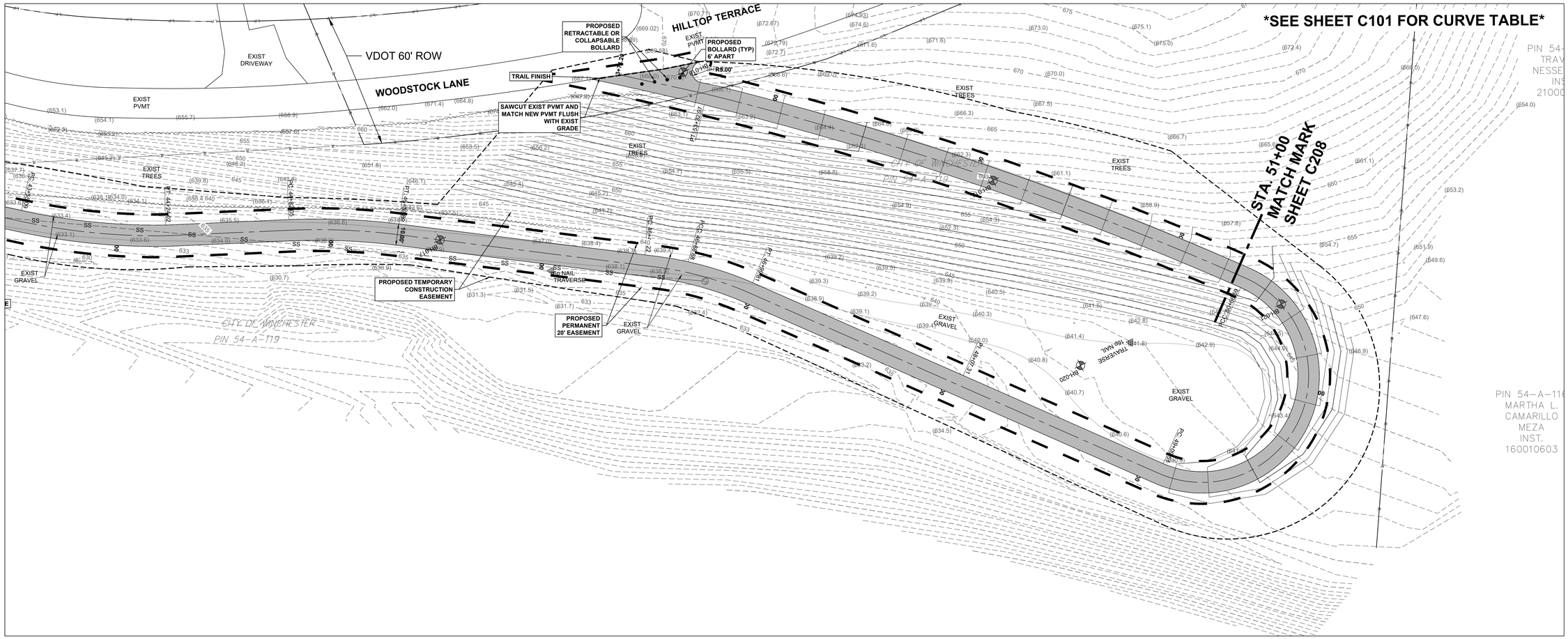
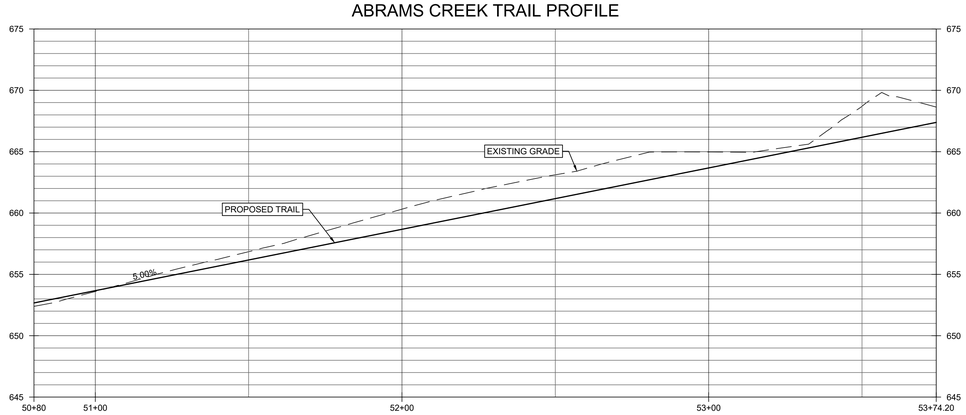
PROJECT # 0657-034-908



HORIZONTAL SCALE
1" = 20'-0"
20' 10' 0 20' 40'

VERTICAL SCALE
1" = 5'-0"
5' 2' 0 5' 10'

ABRAMS CREEK TRAIL PROFILE



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NO.	REVISIONS DESCRIPTION	DATE

FREDERICK COUNTY PARKS AND RECREATION
ABRAMS CREEK TRAIL
WINCHESTER, VIRGINIA

65% DESIGN SUBMITTAL

PLAN AND PROFILE 51+00 TO 53+74.20

DRAWN	CHECKED
LCK	WAS
	DATE 09.25.2024
	COMM. NO. 2020-097

C209

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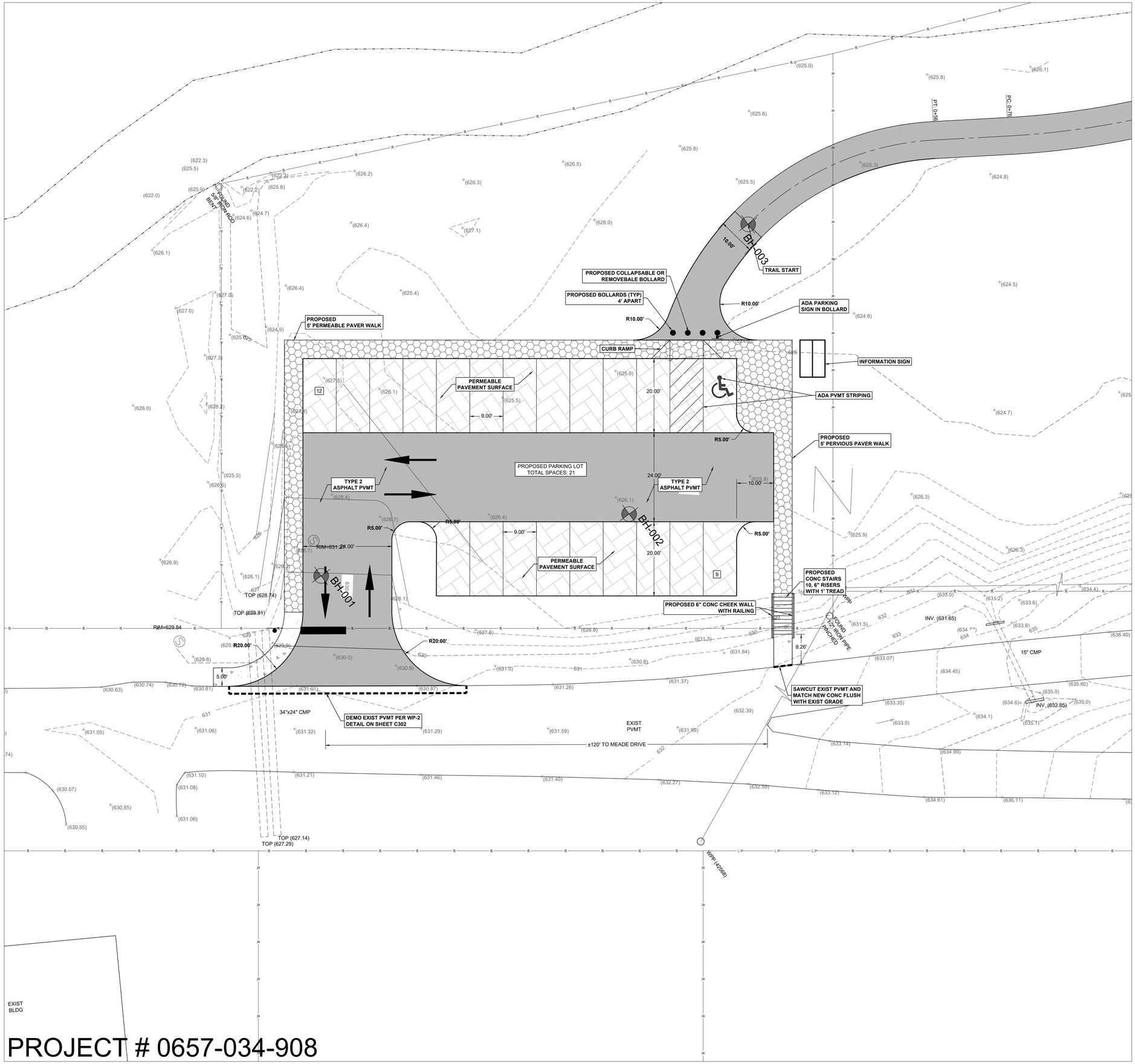
PROJECT # 0657-034-908



DIMENSIONAL PLAN NOTES

1. ALL DIMENSIONS SHOWN ARE TO FACE OF CURB, EDGE OF PAVEMENT, AND PERPENDICULAR TO PROPERTY LINES.
2. ALL PARKING LOT AND SIDEWALK RADII SHALL BE 5 FEET UNLESS OTHERWISE NOTED.
3. PARKING SPACES SHALL BE 9'X20', UNLESS OTHERWISE NOTED, AND SHALL BE SEPARATED BY 4 INCH WIDE WHITE PAINTED LINES.
4. ALL EXTERIOR CONCRETE ENTRY PADS, PATIOS, PORCHES AND SIDEWALKS SHALL BE 4 INCHES THICK, 4000 PSI AIR ENTRAINED CONCRETE, REINFORCED WITH WWF 6X6, W1.4 X W1.4 OR FIBROUS REINFORCING. CONCRETE SHALL BE PLACED OVER A 4 INCH LAYER OF COMPACTED VDOT TYPE #57 AGGREGATE.
5. CONTROL JOINTS: PROVIDE CONTROL JOINTS, SECTIONING CONCRETE INTO AREAS AS SHOWN. JOINTS IN SIDEWALKS SHALL BE AT A SPACING EQUAL TO THE SIDEWALK WIDTH. JOINTS SHALL BE TOOLED OR SAWN INTO CONCRETE A DEPTH EQUAL TO ¼ OF CONCRETE THICKNESS.
6. EXPANSION JOINTS: PROVIDE PRE-MOLDED JOINT FILLER EXPANSION JOINTS WHERE NEW SIDEWALKS OR OTHER CONCRETE PAVING ABUTS CONCRETE CURBS, CATCH BASINS, MANHOLES, INLETS, STRUCTURES, EXISTING WALKS, AND OTHER FIXED OBJECTS. LOCATE EXPANSION JOINTS IN SIDEWALKS AT A MAXIMUM OF 50' O.C. JOINT FILLER SHALL EXTEND THE FULL LENGTH AND DEPTH OF JOINT, BUT SHALL BE LET DOWN ½" BELOW THE FINISHED SURFACE AND THE RESULTANT SPACE FILLED WITH URATHANE JOINT SEALER.

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NO.	REVISIONS DESCRIPTION	DATE

FREDERICK COUNTY PARKS AND RECREATION

ABRAMS CREEK TRAIL

WINCHESTER, VIRGINIA

65% DESIGN SUBMITTAL

MEADE DRIVE PARKING LOT

DRAWN	CHECKED
LCK	WAS
	DATE 09.25.2024
	COMM. NO. 2020-097

C301

PRELIMINARY NOT FOR CONSTRUCTION

1" = 10'-0"

10' 5' 0 10' 20'

PROJECT # 0657-034-908

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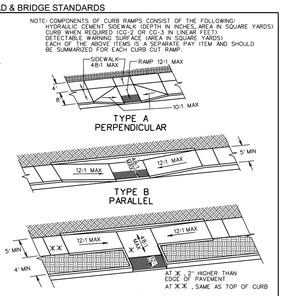
2016 ROAD & BRIDGE STANDARDS

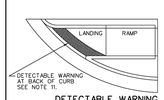
CG-12

GENERAL NOTES:

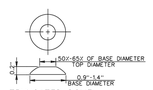
1. THE DETECTABLE WARNING SHALL BE PROVIDED BY TRUNCATED DOMES.
2. ALL DETECTABLE WARNING SURFACE PRODUCTS SHALL MEET THE REQUIREMENTS OF SECTION 504 OF THE SPECIFICATIONS FOR CG-12 DETECTABLE WARNING SURFACE. DETECTABLE WARNING SURFACE PRODUCTS USED SHALL BE FROM THE MATERIALS APPROVED PRODUCT LIST 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" PLACED 1"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 AS SHOWN ON PLANS OR AS DIRECTED BY THE ENGINEER. CURB RAMPS SHOULD NOT BE LOCATED BEHIND VEHICLE STOP LINES, LIGHT POLES, FIRE HYDRANTS, DROP 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 THE RADIUS SHALL NOT INTERFERE WITH 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 RADIUS OR BE FIELD-MODIFIED AS RECOMMENDED BY THE MANUFACTURER TO MATCH THE BACK OF CURB. SEE CG-12-INS PAGES 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 SIDEWALK (DEPTH IN INCHES, AREA IN SQUARE YARDS) CURB WHEN REQUIRED (CC-2 OR CC-3 IN LINEAR FEET). DETECTABLE WARNING SURFACE (AREA IN SQUARE YARDS) EACH COMPONENT IS PAID FOR AS A SEPARATE PAY ITEM AND SHOULD BE SUMMARIZED FOR EACH CURB CUT RAMP.

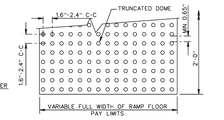




DETECTABLE WARNING INSTALLED ON A RADIUS



TRUNCATED DOME DETAIL



DETECTABLE WARNING DETAIL

VDOT ROAD AND BRIDGE STANDARDS

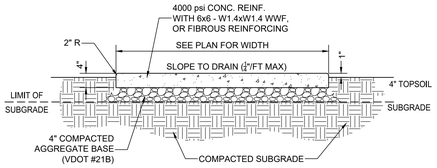
A COPY OF THE ORIGINAL SEALED AND SIGNED DRAWING IS ON FILE IN THE CENTRAL OFFICE.

CG-12 DETECTABLE WARNING SURFACE
(GENERAL NOTES)

VIRGINIA DEPARTMENT OF TRANSPORTATION

SHEET 1 OF 5	REVISION DATE	SPECIFICATION REFERENCE
204.01	04/19	105 502 504

2016 ROAD & BRIDGE STANDARDS

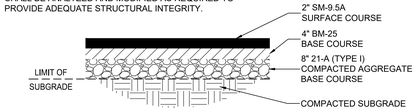


CONCRETE SIDEWALK
NO SCALE

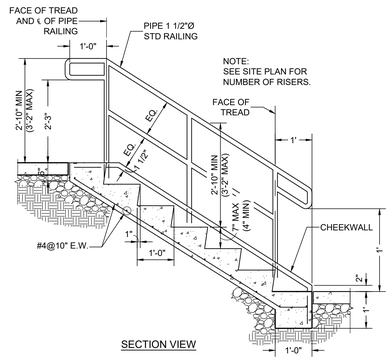
DESIGN ADT = 1830 VPD
DESIGN CBR = 4.33 (AVERAGE OF 3 TESTS)

CONTRACTOR SHALL PROVIDE CBR TESTS ON IN PLACE SUBGRADE MATERIAL PRIOR TO INSTALLATION OF PAVEMENT SECTION. PAVEMENT SECTION DESIGN SHALL BE ANALYZED AND MODIFIED AS REQUIRED TO PROVIDE ADEQUATE STRUCTURAL INTEGRITY.

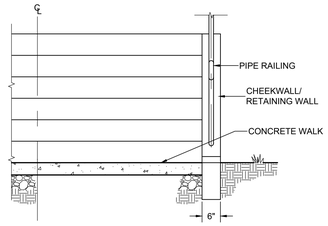
ASPHALT PRIME & TACK COATS SHALL BE APPLIED IN ACCORDANCE WITH VDOT SPECIFICATIONS SECTION 310 AND 311.



TYPE 2 PAVEMENT
NO SCALE

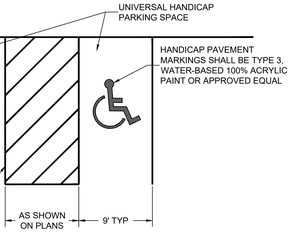


SECTION VIEW

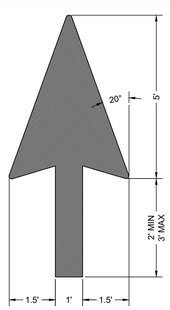


ELEVATION VIEW

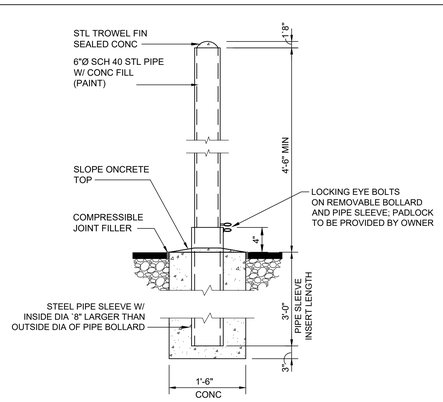
EXTERIOR CONC. STAIRS
NO SCALE



HC STRIPING DETAIL
NO SCALE

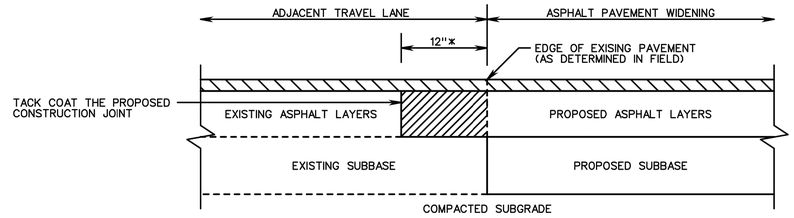


TRAFFIC ARROW MARKING
NO SCALE



REMOVABLE PIPE BOLLARD DETAIL
NO SCALE

WP-2



CONSTRUCTION JOINT DETAIL

REMOVE EXISTING ASPHALT LAYERS TO EXISTING SUBBASE AND REPLACE WITH PROPOSED ASPHALT WIDENING LAYERS

PROPOSED MINIMUM 1½ INCH THICK ASPHALT SURFACE COURSE (SEE NOTE 5)

* MINIMUM 12 INCHES, OR GREATER AS NECESSARY TO ABUT THE FULL THICKNESS OF EXISTING ASPHALT LAYERS AS DETERMINED BY CORES (SEE NOTE 3)

NOTES:

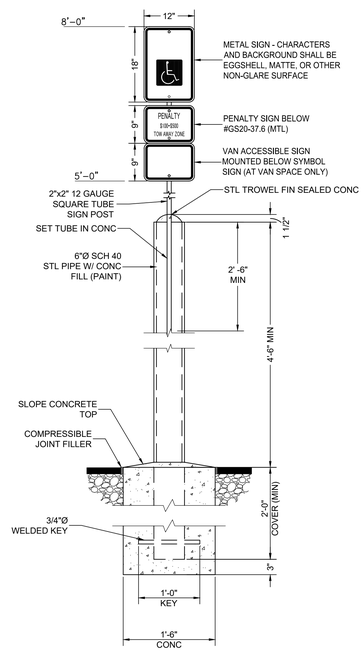
1. ASPHALT PAVEMENT WIDENING SHALL HAVE A PAVEMENT DESIGN IN ACCORDANCE WITH CURRENT VDOT PROCEDURES AND BE APPROVED BY THE ENGINEER.
2. THE PAVEMENT DESIGN FOR ASPHALT PAVEMENT WIDENING SHALL MEET OR EXCEED THE DEPTHS AND TYPES OF THE LAYERS OF EXISTING PAVEMENT. SUBSURFACE DRAINAGE OF THE EXISTING AND PROPOSED PAVEMENT SHALL BE ADDRESSED IN THE PAVEMENT DESIGN.
3. A MINIMUM OF THREE CORES SHALL BE TAKEN ALONG THE CENTER OF THE ADJACENT TRAVEL LANE TO DETERMINE THE TYPE AND THICKNESS OF EXISTING PAVEMENT LAYERS. THESE CORES SHALL BE SPACED NO MORE THAN 500 FEET APART.
4. THE ADJACENT TRAVEL LANE SHALL BE MILLED A MINIMUM DEPTH OF 1½ INCHES AND REPLACED WITH AN ASPHALT SURFACE COURSE TO MATCH THE PROPOSED PAVEMENT WIDENING SURFACE COURSE, UNLESS WAIVED BY THE ENGINEER.
5. THE ENGINEER MAY REQUIRE THE MILLING DEPTH OF THE EXISTING PAVEMENT TO BE ADJUSTED TO ACHIEVE AN ACCEPTABLE PAVEMENT CROSS-SLOPE AND EFFECTIVE SURFACE DRAINAGE.
6. EXISTING PAVEMENT MARKINGS AND MARKERS WITHIN THE PROJECT LIMITS SHALL BE RESTORED SUBJECT TO THE APPROVAL OF THE ENGINEER.
7. FINAL TRANSVERSE PAVEMENT TIE-IN SHALL CONFORM TO THE REQUIREMENTS OF SECTION 315.05(c) OF THE SPECIFICATIONS EXCEPT THAT ALL JOINTS AT TIE-IN LOCATIONS SHALL BE TESTED USING A 10 FOOT STRAIGHTEDGE IN ACCORDANCE WITH THE REQUIREMENTS OF SECTION 315.07(a) OF THE SPECIFICATIONS.

VDOT ROAD AND BRIDGE STANDARDS

PAVEMENT WIDENING

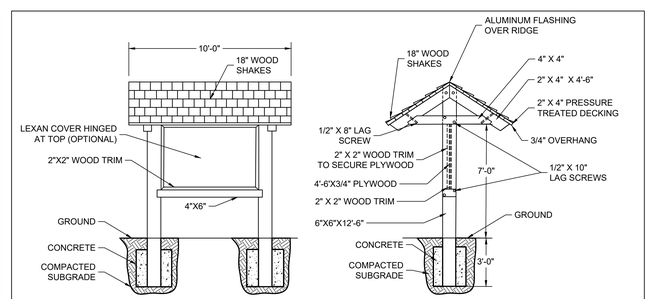
VIRGINIA DEPARTMENT OF TRANSPORTATION

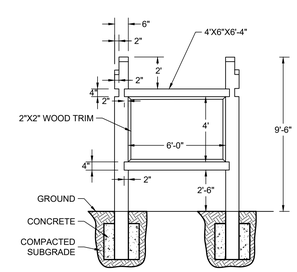
SHEET 1 OF 1	REVISION DATE	SPECIFICATION REFERENCE
303.02		315



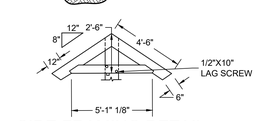
NOTE:
1. FABRICATE SIGN PANELS OF 16 ga. ALUM.
2. USE NON-CORROSIVE 3/8" MACHINE BOLTS W/ WASHERS, 2 PER SIGN.

BOLLARD WITH SIGN DETAIL
NO SCALE

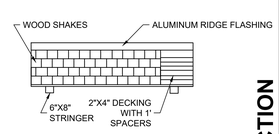




FRAMING DETAIL
NOT TO SCALE



SIDE FRAMING DETAIL
NOT TO SCALE



ROOF ASSEMBLY
NOT TO SCALE

NOTES:
1. ALL WOOD SHOULD BE PRESSURE TREATED
2. ALL HARDWARE AND NAILS SHALL BE GALVANIZED
3. CEDAR WOOD SHAKES SHOULD BE APPROXIMATELY 18" X 1/2" HANDSPLIT WITH A 5 1/2" EXPOSURE.
4. FINISH SHOULD BE NATURAL
5. EASE ALL EXPOSED EDGES
6. LEXAN COVER FOR PLYWOOD IS OPTIONAL. ATTACH 2" X 2" WOOD TRIM WITH 1/4 " LAG SCREWS

TRAIL INFORMATION SIGN

PRELIMINARY NOT FOR CONSTRUCTION

ZMM ARCHITECTS ENGINEERS
1116 South Main Street
Blacksburg, VA 24060
Phone: 540.552.2151
Fax: 540.951.0219
222 Lee Street, West
Charleston, WV 25302
Phone: 304.342.6169
Fax: 304.345.8144
5550 Winchester Avenue
Berkeley Business Park, Suite 5
Martinsburg, WV 25405
Phone: 304.342.0159
www.zmm.com

NO.	DESCRIPTION	DATE

REVISIONS

FREDERICK COUNTY PARKS AND RECREATION
ABRAMS CREEK TRAIL
WINCHESTER, VIRGINIA

65% DESIGN SUBMITTAL

MEADE DRIVE PARKING LOT DETAILS

DRAWN	CHECKED
LCK	WAS
	DATE 09.25.2024
	COMM. NO. 2020-097

C302

October 8, 2024 O:\2020 Projects\2020-097\Civ\Drawings\2020-097 Civil Sheets.dwg

PROJECT # 0657-034-908