

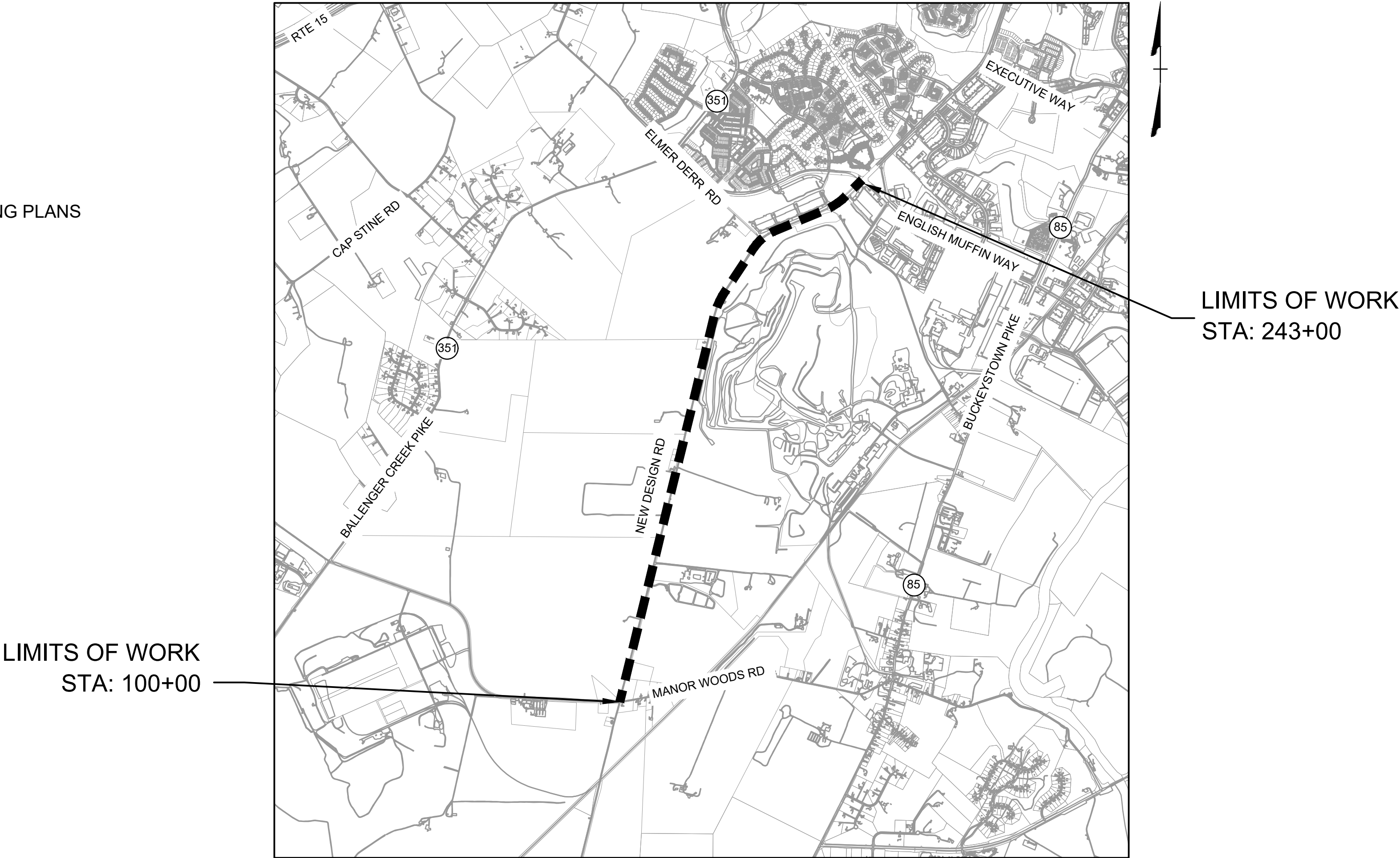
FREDERICK COUNTY, MD

NEW DESIGN ROAD SIDE PATH PHASE 1

Manor Woods Road to English Muffin Way

SHEET INDEX

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VICINITY MAP
SCALE 1" = 2000'

DESIGN INFORMATION
PROJECT LENGTH: 2.75 MILES
ROAD CLASSIFICATION: MAJOR COLLECTOR
POSTED SPEED LIMIT: 50 MPH
ADT: 18,390

30% DESIGN PLANS
DATE: APRIL, 2020

NOTE:
ALL EXISTING CONDITIONS INFORMATION SHOWN ON THIS PLAN IS BASED UPON FREDERICK COUNTY GIS DATA. ALL INFORMATION IS APPROXIMATE INCLUDING LOCATIONS FOR PROPERTY LINES, CURBLINES, BUILDINGS, PAVEMENT MARKINGS, FENCES, CONTOUR ELEVATIONS, LIMIT OF WETLANDS, BRIDGE STRUCTURE, ETC.

30% DESIGN SUBMISSION
PRELIMINARY - NOT FOR CONSTRUCTION



8484 GEORGIA AVENUE, SUITE 800
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www.tooledesign.com

REGISTRATION STAMP

OWNER
DIVISION OF PLANNING
AND PERMITTING
FREDERICK COUNTY, MD

PROJECT TITLE
NEW DESIGN ROAD
SIDE PATH PHASE 1

REVISIONS		
MARK	DATE	DESCRIPTION

FILE NO.
DATE:
SCALE:
DESIGNED BY:
DRAWN BY:
CHECKED BY:

SHEET TITLE
TITLE SHEET

GENERAL NOTES

1. ALL EXISTING CONDITIONS INFORMATION SHOWN ON THIS PLAN IS BASED UPON FREDERICK COUNTY GIS DATA. ALL INFORMATION IS APPROXIMATE INCLUDING LOCATIONS FOR PROPERTY LINES, CURBLINES, BUILDINGS, PAVEMENT MARKINGS, FENCES, CONTOUR ELEVATIONS, LIMIT OF WETLANDS, BRIDGE STRUCTURE, ETC.
2. POSITIVE DRAINAGE SHALL BE MAINTAINED THROUGHOUT THE PROJECT AREA.
3. ALL UNPAVED AREAS WITHIN THE RIGHT-OF-WAY SHALL BE SEEDED.
4. ALL SIDEWALK RAMPS SHOWN ON THIS PLAN SHALL COMPLY WITH THE LATEST REVISION TO THE FEDERAL ACCESSIBILITY GUIDELINES OF THE AMERICANS WITH DISABILITIES ACT.
5. ALL SIDEWALKS SHOWN ON THIS PLAN SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE LATEST MARYLAND DEPARTMENT (MDOT) OF TRANSPORTATION STATE HIGHWAY ADMINISTRATION (SHA)STANDARDS AND SHALL COMPLY WITH THE LATEST REVISION TO THE FEDERAL ACCESSIBILITY GUIDELINES OF AMERICANS WITH DISABILITIES ACT.

GENERAL NOTES FOR SIGNAGE AND PAVEMENT MARKING SPECIFICATIONS

1. ALL SIGNAGE AND PAVEMENT MARKINGS SHALL COMPLY WITH "STANDARD SPECIFICATIONS FOR CONSTRUCTION & MATERIALS", DATED JULY 2019, AS PUBLISHED BY THE MARYLAND DEPARTMENT (MDOT) OF TRANSPORTATION STATE HIGHWAY ADMINISTRATION (SHA), AND LATEST REVISIONS OR ADDITIONS, INCLUDING SPECIFICATIONS HEREIN, AND LATEST REVISIONS. THE SPECIFICATIONS SHALL HEREAFTER BE REFERRED TO AS THE SPECIFICATIONS. THE SPECIFICATIONS ARE ACCESSIBLE ON-LINE AT: HTTP://WWW.SHA.STATE.MD.US/BUSINESSWITHSHA/BUSINESSWITHSHA.ASP?ID=B157
2. ALL STANDARD DETAILS AND STANDARD PLATES REFERRED TO SHALL BE THOSE OF THE STATE OF MARYLAND, DEPARTMENT OF TRANSPORTATION, STATE HIGHWAY ADMINISTRATION'S "BOOK OF STANDARDS FOR HIGHWAY & INCIDENTAL STRUCTURES" 2OR FREDERICK COUNTY STANDARD DETAILS AND THE LATEST REVISION THERETO. THE STATE OF MARYLAND, DEPARTMENT OF TRANSPORTATION, STATE HIGHWAY ADMINISTRATION "BOOK OF STANDARDS" SHALL BE REFERRED TO AS THE MARYLAND STATE HIGHWAY ADMINISTRATION'S "BOOK OF STANDARDS" OR MARYLAND STATE HIGHWAY ADMINISTRATION STANDARD. ACCESS TO THE STATE OF MARYLAND STANDARD DETAILS AND STANDARD PLATES ETC. CAN BE FOUND ON-LINE AT: HTTP://WWW.SHA.STATE.MD.US/BUSINESSWITHSHA/BUSINESSWITHSHA.ASP?ID=B157
3. REFERENCES TO THE STATE OF MARYLAND, STATE, S.R.C., STATE ROADS COMMISSION, STATE HIGHWAY ADMINISTRATION, OR COMMISSION IN THESE SPECIFICATIONS SHALL BE INTERPRETED TO MEAN FREDERICK COUNTY, MARYLAND.
4. REFERENCES TO OFFICIALS OF MARYLAND STATE GOVERNMENT OR THE MARYLAND STATE HIGHWAY ADMINISTRATION BOOK OF STANDARDS SHALL BE INTERPRETED TO MEAN THE APPROPRIATE OFFICIAL IN FREDERICK COUNTY GOVERNMENT, UNLESS SPECIFIED OTHERWISE.

CONSTRUCTION & REQUIREMENTS

- A. PAVEMENT MARKINGS:

1. MARKINGS SHALL BE THERMO-PLASTIC EXCEPT LONG LINE MARKINGS.

2. LONG LINE MARKINGS SHALL MEET STATE STANDARDS, INCLUDING REFLECTORIZED BEADS MEETING SHA SPECS

3. SCHOOL ZONE CROSSWALKS SHALL EITHER HAVE PERPENDICULAR HATCHING (NOT DIAGONAL) LOCATED AWAY FROM WHEEL PATHS WITHOUT PARALLEL LINES OR 2 PARALLEL LINES WITHOUT ANY INTERIOR HATCHING.

4. APPROVED TRAFFIC PAINTS FOR USE IN MARYLAND FROM THE 1994 NASTO SITE. THESE RESULTS ARE APPROVED FOR BOTH PCC AND BITUMINOUS SURFACES

5. SHA APPROVED PAINTS ARE CITED WITH 1994 NASTO REF. #, MANUFACTURER CODE, MANUFACTURER NAME & COLOR
- B. SIGN POST MATERIAL - 2 INCH SQUARE TUBE STEEL SIGN POST

THIS WORK SHALL CONSIST OF FURNISHING AND ERECTING STEEL SIGN POSTS AS SPECIFIED IN THE CONTRACT DOCUMENTS, MANUFACTURER'S RECOMMENDATIONS OR AS DIRECTED BY THE ENGINEER. ALL POSTS REQUIRE UTILITY CLEARANCES.

1. GALVANIZED STEEL POSTS-2 INCH SQUARE, 14 GA, WITH BOLT HOLES 1" ON CENTER ON ALL 4 SIDES OF POST

2. GALVANIZED STEEL SLEEVES2 1/4" X 36", 214 GA, 30

3. BOLTS, NUTS AND WASHERS-, FASTENERS, RIVETS, ETC. ALL TO BE TAMPER RESISTANT -909.6

4. GALVANIZING FOR POSTS AND SLEEVES -A123

5. GALVANIZING FOR HARDWARE-A153 & GALVANIZING FOR BARE METAL-A 780
- C. TRAFFIC SIGN REQUIREMENTS

1. 1.3M DG CUBED GRADE REFLECTORIZED SHEETING (DIAMOND GRADE CUBED) & 3M 1177C ELECTRO CUT FILM (OR EQUIVALENT)

2. ALL SIGNS (EXCEPT STOP SIGNS) MUST HAVE ROUNDED CORNERS INCLUDING SNS.

3. STOP SIGNS MINIMUM SIZE IS 30"

4. ALL SIGNS TO BE FIRMLY & SECURELY FASTENED WITH EXTRUDED ALUMINUM 3/8 INCH TAMPER RESISTANT POP RIVETS & NYLON WASHERS.

5. WHERE FEASIBLE, MINIMIZE SIGN POSTS BY PLACING TRAFFIC SIGNS ON EXISTING POLES INCLUDING STREET LIGHT POLES

6. PLACE TRAFFIC SIGNS FOR DRIVER VISIBILITY, ESPECIALLY STOP SIGNS.

7. IDENTIFICATION STICKERS ON BACK SIDE OF SIGNS TO BE NON-REFLECTIVE SIGN GRADE SHEETING WITH STANDARD ADHESIVE.

8. ALL TRAFFIC SIGNS SPECIFIC TO SCHOOL CROSSING, PEDESTRIAN CROSSING, AND SHARED USE PATH CROSSING SIGNS SHALL USE THE APPROVED FLUORESCENT GREEN BACKGROUND COLOR AS OPPOSED TO THE YELLOW. ANY CROSSWALKS MARKED WITH PAVEMENT MARKINGS SHALL HAVE APPROPRIATE MDMUTC D APPROVED TRAFFIC SIGNS INSTALLED DENOTING THEIR LOCATIONS.

ABBREVIATIONS

PR.	PROPOSED
EX.	EXISTING
LOD	LIMIT OF DISTURBANCE
ROW	RIGHT-OF-WAY
STA.	STATION
TYP.	TYPICAL
MPH	MILES PER HOUR
MHT	MARYLAND HISTORICAL TRUST
ELEV	ELEVATION
PVC	POINT OF VERTICAL CURVATURE
PVI	POINT OF VERTICAL INTERSECTION
N.T.S.	NOT TO SCALE
MIN	MINIMUM
MAX	MAXIMUM

LEGEND

	EXISTING	PROPOSED
SANITARY SEWER MANHOLE		N/A
UTILITY POLE & GUY WIRE		N/A
TRAFFIC SIGNAL POLE		N/A
TRAFFIC SIGN		
FIRE HYDRANT		N/A
TREE LINE		N/A
CURB RAMP		
GUARDRAIL		N/A
CURB		
CURB AND GUTTER		
FENCE		
BUILDINGS		N/A
EDGE OF PAVEMENT		
STREAM		N/A
FEMA 100YR FLOODPLAIN		N/A
PROPERTY LINE/R.O.W.		
LIMIT OF DISTURBANCE (LOD)	N/A	
CULVERT		
CONCRETE	N/A	
BOARDWALK	N/A	
ASPHALT PAVEMENT	N/A	
TURFGRASS ESTBALISHMENT	N/A	
MDSHA BIORETENTION SOIL MIX MEADOW ESTABLISHMENT	N/A	
MDSHA UPLAND MEADOW MIX WITH SOIL STABILIZATION MATTING	N/A	
SHADE TREE		
ORNAMENTAL TREE		
DETECTABLE WARNING	N/A	
4" SOLID WHITE LANE LINE		
6" SOLID WHITE LANE LINE		
6" SOLID WHITE LINE (GORE STRIPING)		
4" DOUBLE SOLID YELLOW CENTERLINE		
12" SOLID WHITE LINE (STOP LINE)		
24" SOLID WHITE LINE (STOP LINE)		
24" SOLID WHITE LINE (CROSSWALK)		
WHITE PAVEMENT ARROW		N/A

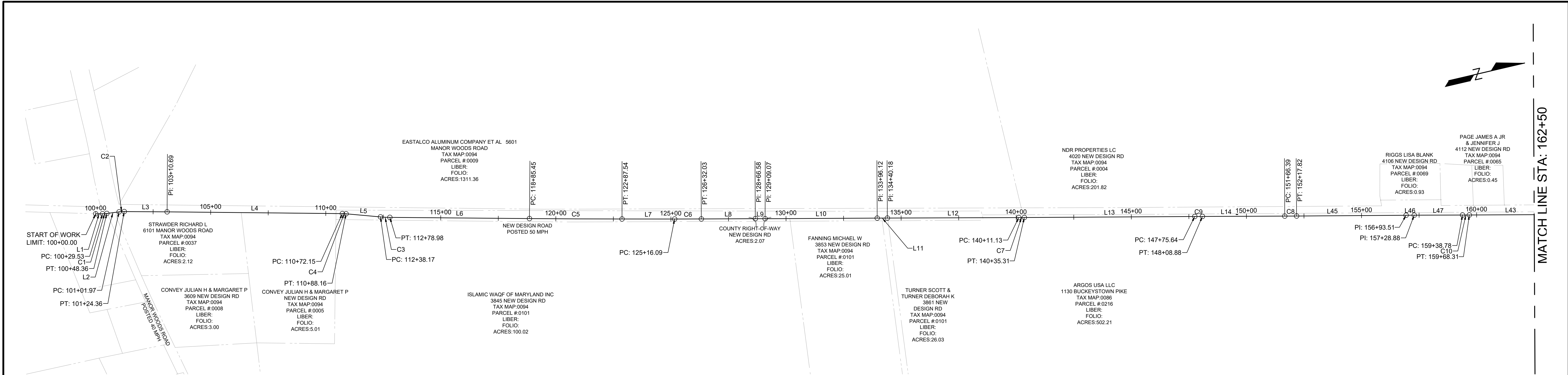
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PROFESSIONAL CERTIFICATION	REUSE OF DOCUMENTS					<div><div>TOOLE DESIGN</div><div>8484 GEORGIA AVENUE, SUITE 800 SILVER SPRING, MD 20910 PHONE: 301.927.1900 FAX: 301.927.2800 www.tooledesign.com</div></div>	NEW DESIGN ROAD SIDE PATH PHASE 1	DIVISION OF PLANNING AND PERMITTING FREDERICK COUNTY, MD	30% DESIGN PLANS		PROJECT NO. 50730
I HEREBY CERTIFY THAT THESE PLANS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF [STATE]. LICENSE NO. _____ EXPIRATION DATE: _____.	ALL DRAWINGS ARE INSTRUMENTS OF PROFESSIONAL SERVICE FOR THIS PROJECT. REUSE OR ALTERATION IS AT THE USER'S SOLE RISK.								NOTES & LEGEND		DATE 04/2020
	JM										DRAWING NO.
	VR										SHEET NO. 2 of 48
	XXXX										
	RP	NO.	DATE	REVISION	BY	APVD					

TOOLE
DESIGN

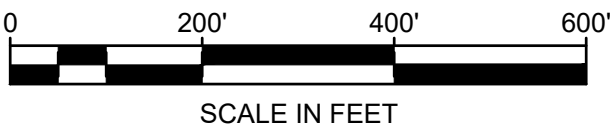
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DIVISION OF PLANNING AND PERMITTING
FREDERICK COUNTY, MD



New Design Road SUP BL							
SEGMENT NO.	STATION	DELTA	RADIUS	TANGENT	LENGTH	BEARING	NORTHING
C10	159+38.78	0° 05' 05"	20000.00	14.76	29.53	N13° 36' 53.80"E	612169.7051
C9	147+75.64	0° 05' 43"	20000.00	16.62	33.24	N13° 33' 28.64"E	611038.9185
C8	151+66.39	0° 08' 50"	20000.00	25.72	51.43	N13° 31' 54.83"E	611418.7107
C7	140+11.13	0° 08' 19"	10000.00	12.09	24.18	N13° 34' 46.56"E	610295.5738
C6	125+16.09	0° 19' 56"	20000.00	57.97	115.94	N13° 43' 54.75"E	608842.5728
C5	118+85.45	0° 27' 12"	50810.00	201.05	402.09	N14° 07' 28.76"E	608230.7784
C4	110+72.15	4° 35' 12"	200.00	8.01	16.01	N16° 44' 03.15"E	607447.0126
C3	112+38.17	4° 40' 34"	500.00	20.42	40.81	N16° 41' 22.12"E	607604.1528
C2	101+01.97	7° 58' 07"	161.00	11.21	22.39	N10° 24' 45.47"E	606506.9750
C1	100+29.53	7° 11' 39"	150.00	9.43	18.83	N10° 01' 31.25"E	606435.1703
L47	157+28.88				209.90	N13° 39' 26.07"E	611965.7371
L46	156+93.51				35.37	N13° 27' 48.16"E	611931.3383
L45	152+17.82				475.68	N13° 27' 29.61"E	611468.7165
L43	159+68.31				359.98	N13° 34' 21.53"E	612198.4041
L14	148+08.88				357.51	N13° 36' 20.05"E	611071.2337
L13	140+35.31				740.33	N13° 30' 37.22"E	610319.0746
L12	134+40.18				570.95	N13° 38' 55.90"E	609740.7453
L11	133+96.12				44.06	N13° 33' 23.07"E	609697.9113
L10	129+09.07				487.04	N13° 32' 54.60"E	609224.4215
L9	128+66.58				42.49	N14° 04' 20.21"E	609183.2073

New Design Road SUP BL							
SEGMENT NO.	STATION	DELTA	RADIUS	TANGENT	LENGTH	BEARING	NORTHING
L8	126+32.03				234.55	N13° 33' 56.89"E	608955.1988
L7	122+87.54				228.55	N13° 53' 52.61"E	608620.7100
L6	112+78.98				606.47	N14° 21' 04.90"E	607643.2307
L5	110+88.16				150.01	N19° 01' 39.34"E	607462.3413
L4	103+10.69				761.47	N14° 26' 26.96"E	606709.6055
L3	101+24.36				186.32	N14° 12' 23.63"E	606528.9803
L2	100+48.36				53.61	N6° 25' 41.85"E	606453.7047
L1	100+00.00				29.53	N13° 37' 20.64"E	606406.4726



PRELIMINARY - NOT FOR CONSTRUCTION

PROFESSIONAL CERTIFICATION

I HEREBY CERTIFY THAT THESE PLANS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF [STATE].
LICENSE NO. _____
EXPIRATION DATE: _____.

REUSE OF DOCUMENTS

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REUSE OR ALTERATION IS AT THE USER'S SOLE RISK.

JM					
VR					
XXXX					
RP	NO.	DATE	REVISION	BY	APVD

TOOLE DESIGN

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SILVER SPRING, MD 20910
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NEW DESIGN ROAD SIDE PATH PHASE 1

DIVISION OF PLANNING AND PERMITTING
FREDERICK COUNTY, MD

30% DESIGN PLANS

GEOMETRIC LAYOUT PLAN - 1

PROJECT NO.

50730

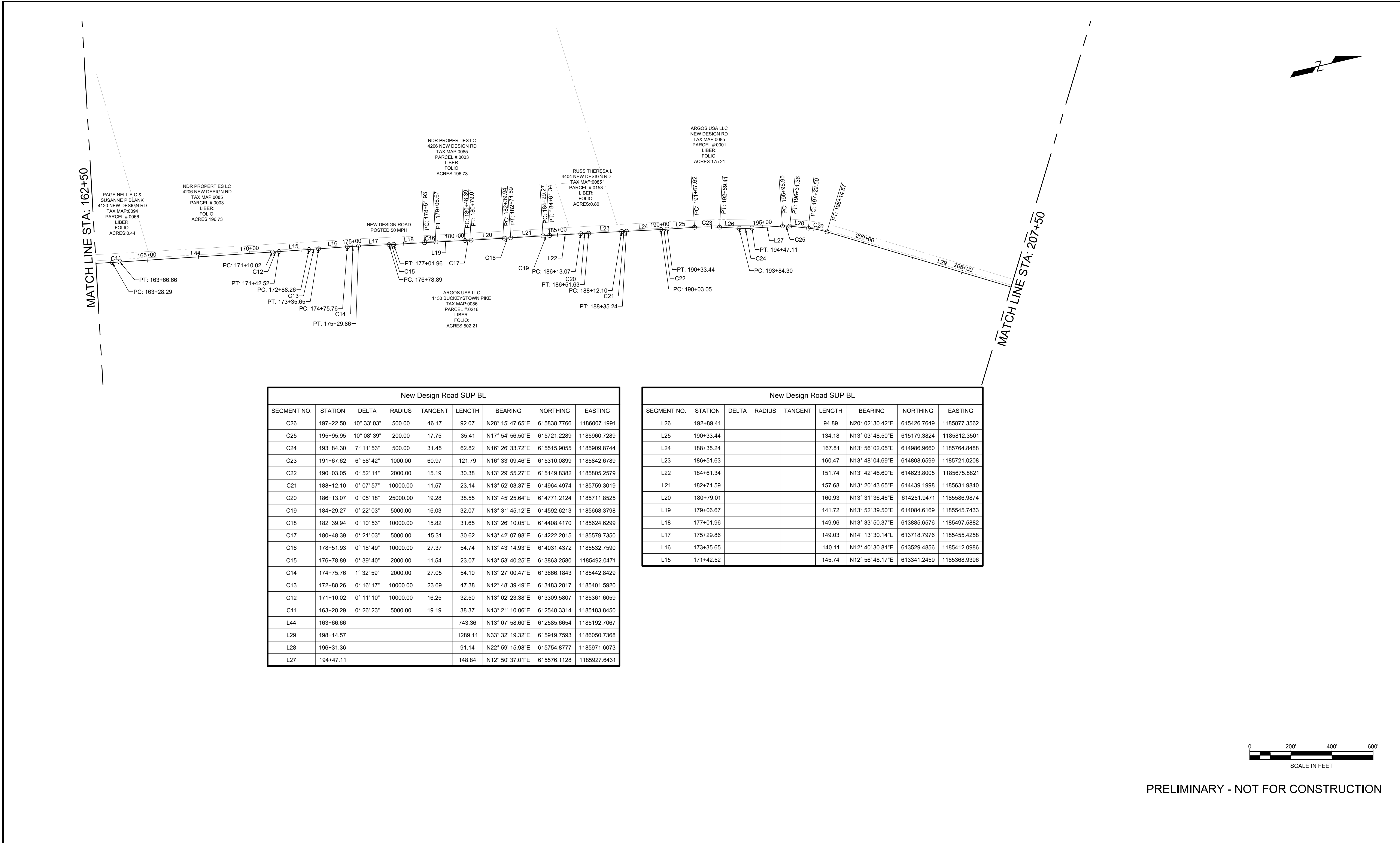
DATE

04/2020

DRAWING NO.

SHEET NO.

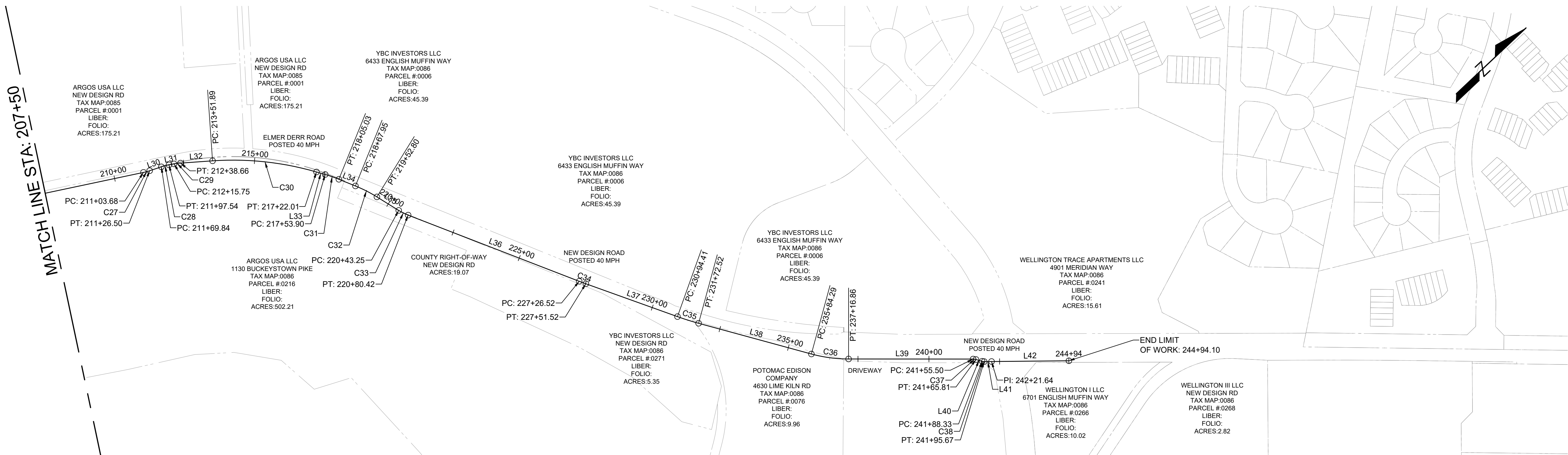
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New Design Road SUP BL								
SEGMENT NO.	STATION	DELTA	RADIUS	TANGENT	LENGTH	BEARING	NORTHING	EASTING
C26	197+22.50	10° 33' 03"	500.00	46.17	92.07	N28° 15' 47.65"E	615838.7766	1186007.1991
C25	195+95.95	10° 08' 39"	200.00	17.75	35.41	N17° 54' 56.50"E	615721.2289	1185960.7289
C24	193+84.30	7° 11' 53"	500.00	31.45	62.82	N16° 26' 33.72"E	615515.9055	1185909.8744
C23	191+67.62	6° 58' 42"	1000.00	60.97	121.79	N16° 33' 09.46"E	615310.0899	1185842.6789
C22	190+03.05	0° 52' 14"	2000.00	15.19	30.38	N13° 29' 55.27"E	615149.8382	1185805.2579
C21	188+12.10	0° 07' 57"	10000.00	11.57	23.14	N13° 52' 03.37"E	614964.4974	1185759.3019
C20	186+13.07	0° 05' 18"	25000.00	19.28	38.55	N13° 45' 25.64"E	614771.2124	1185711.8525
C19	184+29.27	0° 22' 03"	5000.00	16.03	32.07	N13° 31' 45.12"E	614592.6213	1185668.3798
C18	182+39.94	0° 10' 53"	10000.00	15.82	31.65	N13° 26' 10.05"E	614408.4170	1185624.6299
C17	180+48.39	0° 21' 03"	5000.00	15.31	30.62	N13° 42' 07.98"E	614222.2015	1185579.7350
C16	178+51.93	0° 18' 49"	10000.00	27.37	54.74	N13° 43' 14.93"E	614031.4372	1185532.7590
C15	176+78.89	0° 39' 40"	2000.00	11.54	23.07	N13° 53' 40.25"E	613863.2580	1185492.0471
C14	174+75.76	1° 32' 59"	2000.00	27.05	54.10	N13° 27' 00.47"E	613666.1843	1185442.8429
C13	172+88.26	0° 16' 17"	10000.00	23.69	47.38	N12° 48' 39.49"E	613483.2817	1185401.5920
C12	171+10.02	0° 11' 10"	10000.00	16.25	32.50	N13° 02' 23.38"E	613309.5807	1185361.6059
C11	163+28.29	0° 26' 23"	5000.00	19.19	38.37	N13° 21' 10.06"E	612548.3314	1185183.8450
L44	163+66.66				743.36	N13° 07' 58.60"E	612585.6654	1185192.7067
L29	198+14.57				1289.11	N33° 32' 19.32"E	615919.7593	1186050.7368
L28	196+31.36				91.14	N22° 59' 15.98"E	615754.8777	1185971.6073
L27	194+47.11				148.84	N12° 50' 37.01"E	615576.1128	1185927.6431

New Design Road SUP BL								
SEGMENT NO.	STATION	DELTA	RADIUS	TANGENT	LENGTH	BEARING	NORTHING	EASTING
L26	192+89.41				94.89	N20° 02' 30.42"E	615426.7649	1185877.3562
L25	190+33.44				134.18	N13° 03' 48.50"E	615179.3824	1185812.3501
L24	188+35.24				167.81	N13° 56' 02.05"E	614986.9660	1185764.8488
L23	186+51.63				160.47	N13° 48' 04.69"E	614808.6599	1185721.0208
L22	184+61.34				151.74	N13° 42' 46.60"E	614623.8005	1185675.8821
L21	182+71.59				157.68	N13° 20' 43.65"E	614439.1998	1185631.9840
L20	180+79.01				160.93	N13° 31' 36.46"E	614251.9471	1185586.9874
L19	179+06.67				141.72	N13° 52' 39.50"E	614084.6169	1185545.7433
L18	177+01.96				149.96	N13° 33' 50.37"E	613885.6576	1185497.5882
L17	175+29.86				149.03	N14° 13' 30.14"E	613718.7976	1185455.4258
L16	173+35.65				140.11	N12° 40' 30.81"E	613529.4856	1185412.0986
L15	171+42.52				145.74	N12° 56' 48.17"E	613341.2459	1185368.9396

PROFESSIONAL CERTIFICATION		REUSE OF DOCUMENTS						30% DESIGN PLANS		PROJECT NO.
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		JM						DATE		04/2020
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				TOOLE DESIGN		4844 GEORGIA AVENUE, SUITE 800 SILVER SPRING, MD 20910 PHONE: 301.927.1900 FAX: 301.927.2800 www.tooledesign.com		NEW DESIGN ROAD SIDE PATH PHASE 1 DIVISION OF PLANNING AND PERMITTING FREDERICK COUNTY, MD		
								GEOMETRIC LAYOUT PLAN - 2		



New Design Road SUP BL							
SEGMENT NO.	STATION	DELTA	RADIUS	TANGENT	LENGTH	BEARING	NORTHING
C38	241+88.33	16° 48' 42"	25.00	3.69	7.34	N53° 32' 25.47"E	618591.2588
C37	241+55.50	16° 24' 54"	36.00	5.19	10.31	N53° 44' 19.32"E	618574.5892
C36	235+84.29	15° 11' 26"	500.00	66.67	132.56	N53° 07' 35.16"E	618187.9982
C35	230+94.41	4° 28' 32"	1000.00	39.08	78.11	N62° 57' 34.20"E	617951.1166
C34	227+26.52	1° 25' 56"	1000.00	12.50	25.00	N65° 54' 48.52"E	617797.0736
C33	220+43.25	10° 38' 57"	200.00	18.64	37.17	N71° 57' 15.39"E	617529.2858
C32	218+67.95	9° 43' 21"	500.00	42.52	84.85	N72° 25' 03.53"E	617483.7695
C31	217+53.90	5° 51' 31"	500.00	25.59	51.13	N64° 37' 37.24"E	617437.8481
C30	213+51.89	20° 11' 48"	1050.00	187.00	370.12	N51° 35' 57.46"E	617194.0102
C29	212+15.75	6° 33' 47"	200.00	11.47	22.91	N38° 13' 10.08"E	617091.2197
C28	211+69.84	7° 56' 13"	200.00	13.87	27.71	N30° 58' 10.27"E	617052.5576
C27	211+03.68	6° 32' 16"	200.00	11.42	22.82	N30° 16' 11.55"E	616994.2479
L42	242+21.64				272.46	N44° 54' 17.77"E	618613.9258
L41	241+95.67				25.97	N45° 08' 04.58"E	618595.6023
L40	241+65.81				22.52	N61° 56' 46.36"E	618580.6687
L39	237+16.86				438.64	N45° 31' 52.28"E	618267.3095
L38	231+72.52				411.77	N60° 43' 18.04"E	617986.6201
L37	227+51.52				342.89	N65° 11' 50.36"E	617807.2756
L36	220+80.42				646.10	N66° 37' 46.68"E	617540.7845
L35	219+52.80				90.45	N77° 16' 44.10"E	617509.3685

New Design Road SUP BL							
SEGMENT NO.	STATION	DELTA	RADIUS	TANGENT	LENGTH	BEARING	NORTHING
L34	218+05.03				62.92	N67° 33' 22.96"E	617459.7470
L33	217+22.01				31.89	N61° 41' 51.51"E	617422.7268
L32	212+38.66				113.23	N41° 30' 03.41"E	617109.2083
L31	211+97.54				18.21	N34° 56' 16.75"E	617076.2941
L30	211+26.50				43.33	N27° 00' 03.78"E	617013.9465



PRELIMINARY - NOT FOR CONSTRUCTION

PROFESSIONAL CERTIFICATION		REUSE OF DOCUMENTS						PROJECT NO.	
		ALL DRAWINGS ARE INSTRUMENTS OF PROFESSIONAL SERVICE FOR THIS PROJECT. REUSE OR ALTERATION IS AT THE USER'S SOLE RISK.						50730	
		JM						DATE	04/2020
		VR						DRAWING NO.	
		XXXX						SHEET NO.	
I HEREBY CERTIFY THAT THESE PLANS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF [STATE]. LICENSE NO. _____ EXPIRATION DATE: _____.		RP	NO.	DATE	REVISION	BY	APVD	5 of 48	

TOOLE

DESIGN

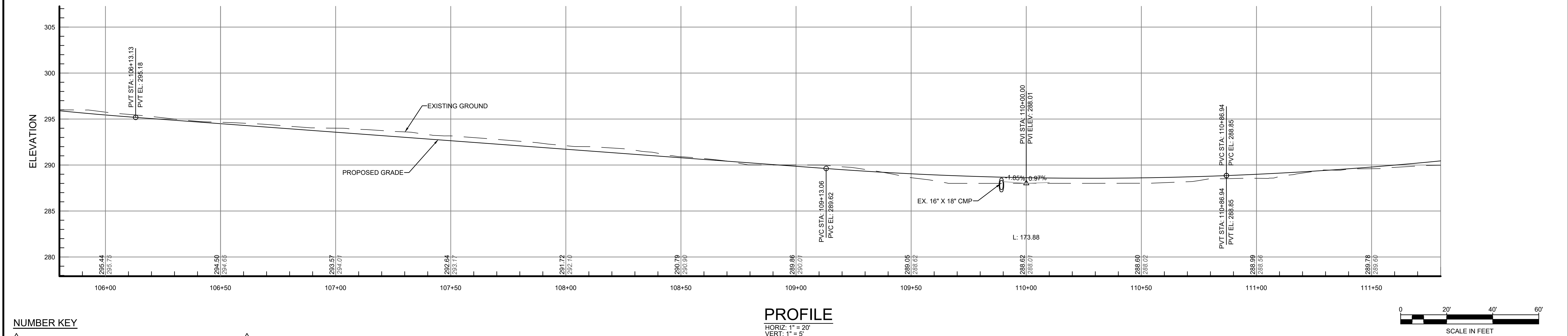
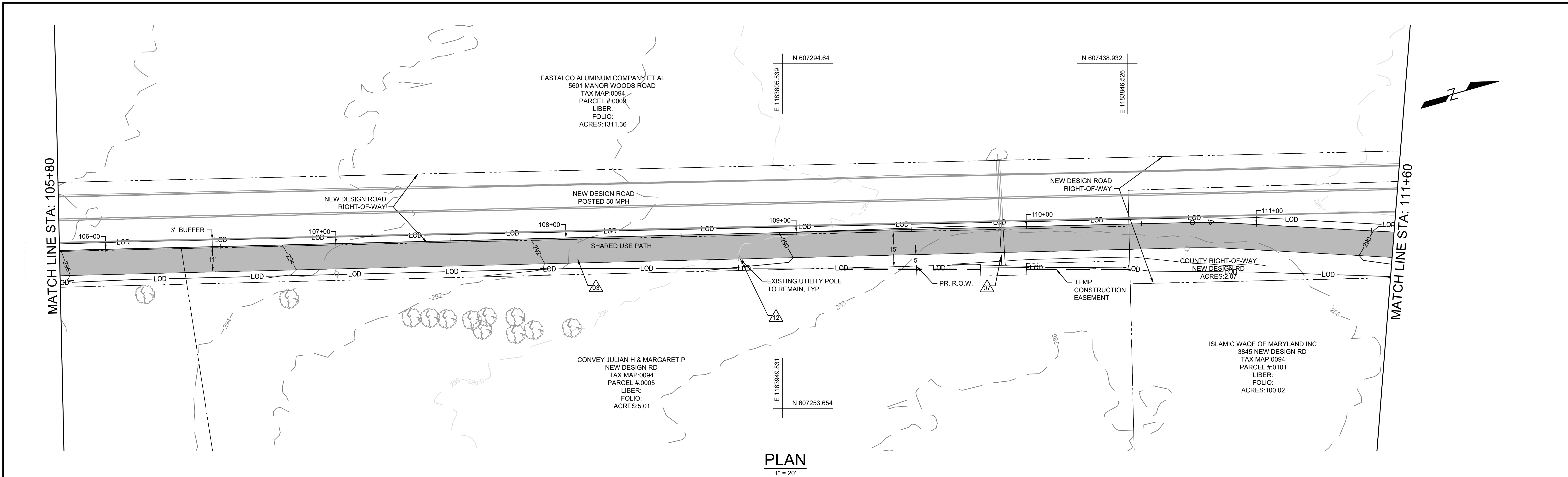
8484 GEORGIA AVENUE, SUITE 800
SILVER SPRING, MD 20910
PHONE: 301.927.1900
FAX: 301.927.2800
www.tooledesign.com

NEW DESIGN ROAD SIDE PATH PHASE 1
DIVISION OF PLANNING AND PERMITTING
FREDERICK COUNTY, MD

30% DESIGN PLANS

GEOMETRIC
LAYOUT PLAN - 3

PROFESSIONAL CERTIFICATION	REUSE OF DOCUMENTS						<div><div>TOOLE DESIGN</div><div>8484 GEORGIA AVENUE, SUITE 800 SILVER SPRING, MD 20910 PHONE: 301.927.1900 FAX: 301.927.2800 www.tooledesign.com</div></div>	NEW DESIGN ROAD SIDE PATH PHASE 1	DIVISION OF PLANNING AND PERMITTING FREDERICK COUNTY, MD	30% DESIGN PLANS		PROJECT NO. 50730
	<div>I HEREBY CERTIFY THAT THESE PLANS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF [STATE]. LICENSE NO. _____, EXPIRATION DATE: _____.</div>									DATE 04/2020		
										DRAWING NO.		
										SHEET NO. 6 of 48		
	JM											
VR												
XXXX												
RP	NO.	DATE	REVISION	BY	APVD.							



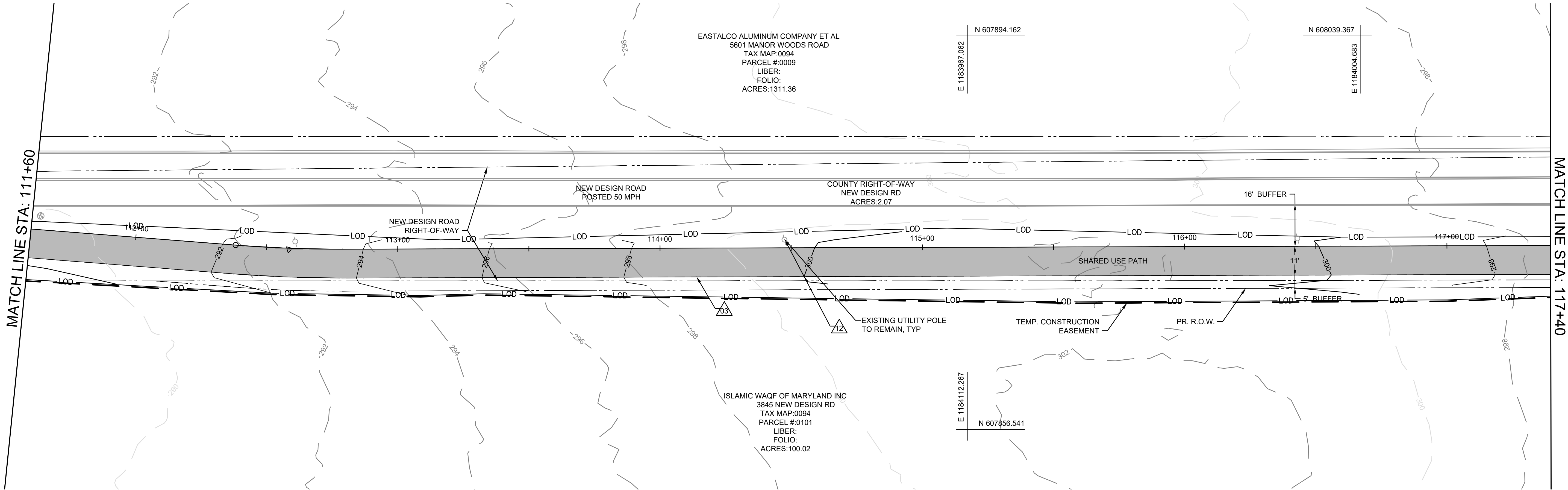
NUMBER KEY

1	DENOTES SIDEWALK RAMP	7	DENOTES STANDARD METAL PIPE END SECTION
2	DENOTES DETECTABLE WARNING SURFACE	8	DENOTES STANDARD METAL PIPE END SUPPORT WALL
3	DENOTES FLEXIBLE PAVEMENT SECTION	9	DENOTES BOARDWALK SECTION
4	DENOTES RIGID PAVEMENT SECTION	10	DENOTES RETAINING WALL (OPTIONS A, B & C)
5	DENOTES 'TYPE A', CONCRETE CURB	11	DENOTES FENCE
6	DENOTES 'TYPE A', CONCRETE CURB & GUTTER	12	DENOTES UTILITY POLE WARNING REFLECTOR

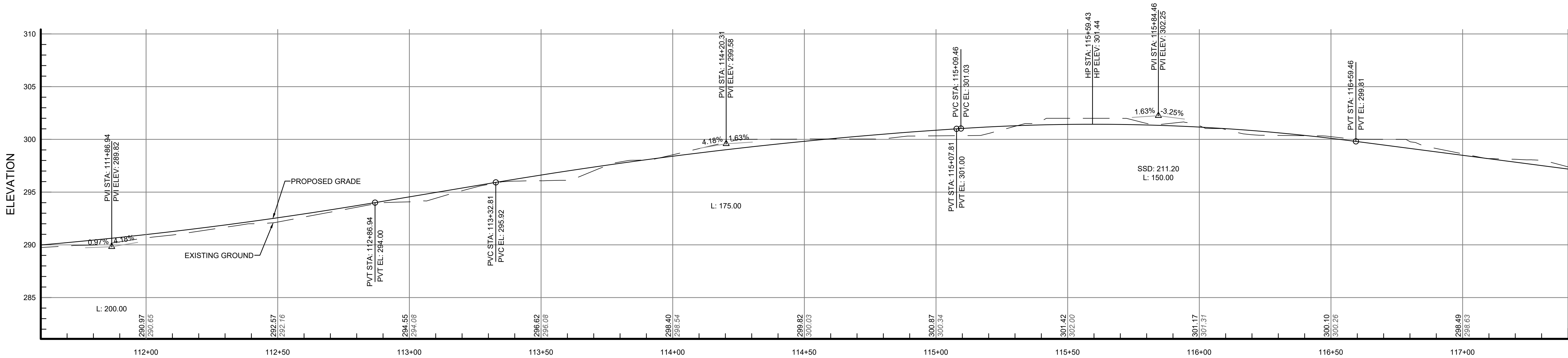
PRELIMINARY - NOT FOR CONSTRUCTION

NOTE:
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PAVEMENT MARKINGS, FENCES, CONTOUR ELEVATIONS, LIMIT OF WETLANDS, BRIDGE STRUCTURE, ETC.

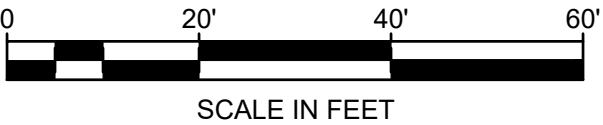
PROFESSIONAL CERTIFICATION		REUSE OF DOCUMENTS						<div>TOOLE DESIGN</div> <div>8484 GEORGIA AVENUE, SUITE 800 SILVER SPRING, MD 20910 PHONE: 301.927.1900 FAX: 301.927.2800 www.tooledesign.com</div>	NEW DESIGN ROAD SIDE PATH PHASE 1		30% DESIGN PLANS		PROJECT NO. 50730	
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		JM											DRAWING NO.	
		VR												
		XXXX												
		RP	NO.	DATE	REVISION		BY	APVD			SHEET NO. 8 of 48			



PLAN
1" = 20'



PROFILE
HORIZ: 1" = 20'
VERT: 1" = 5'



NUMBER KEY

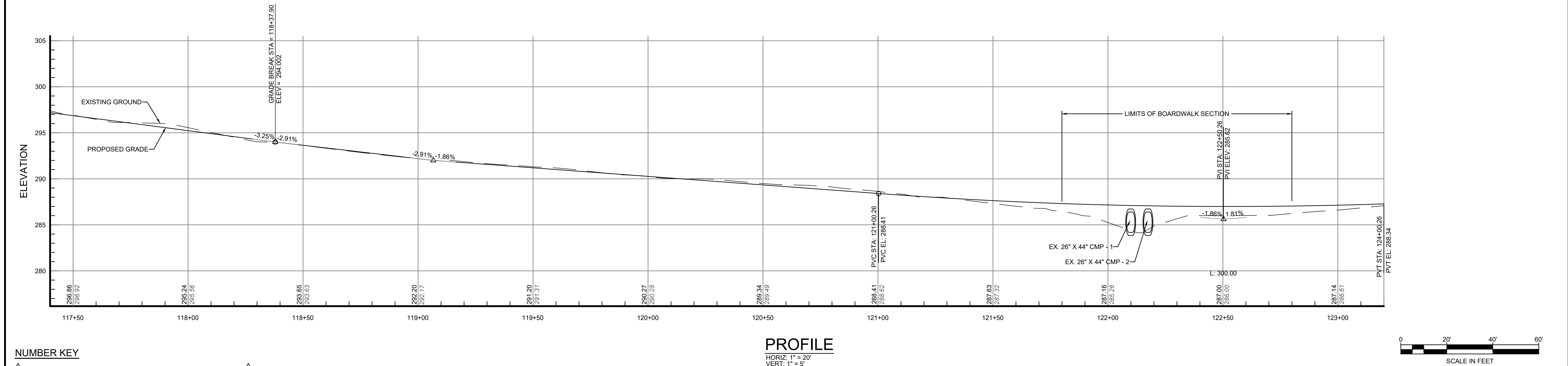
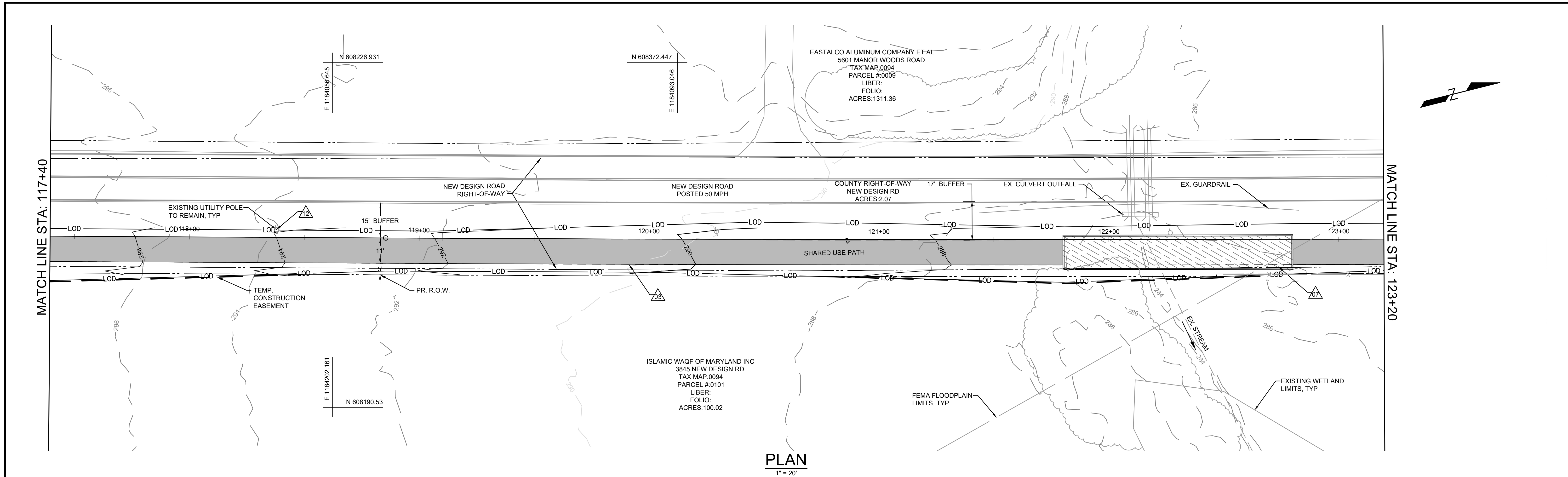
- 1 DENOTES SIDEWALK RAMP
2 DENOTES DETECTABLE WARNING SURFACE
3 DENOTES FLEXIBLE PAVEMENT SECTION
4 DENOTES RIGID PAVEMENT SECTION
5 DENOTES 'TYPE A', CONCRETE CURB
6 DENOTES 'TYPE A', CONCRETE CURB & GUTTER

- 7 DENOTES STANDARD METAL PIPE END SECTION
8 DENOTES STANDARD METAL PIPE END SUPPORT WALL
9 DENOTES BOARDWALK SECTION
10 DENOTES RETAINING WALL (OPTIONS A, B & C)
11 DENOTES FENCE
12 DENOTES UTILITY POLE WARNING REFLECTOR

PRELIMINARY - NOT FOR CONSTRUCTION

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PROFESSIONAL CERTIFICATION		REUSE OF DOCUMENTS						<div>TOOLE DESIGN</div> <div>8484 GEORGIA AVENUE, SUITE 800 SILVER SPRING, MD 20910 PHONE: 301.927.1900 FAX: 301.927.2800 www.tooledesign.com</div>		NEW DESIGN ROAD SIDE PATH PHASE 1 DIVISION OF PLANNING AND PERMITTING FREDERICK COUNTY, MD		30% DESIGN PLANS		PROJECT NO. 50730	
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		JM												DRAWING NO.	
		VR												SHEET NO. 9 of 48	
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		RP	NO.	DATE	REVISION		BY	APVD							



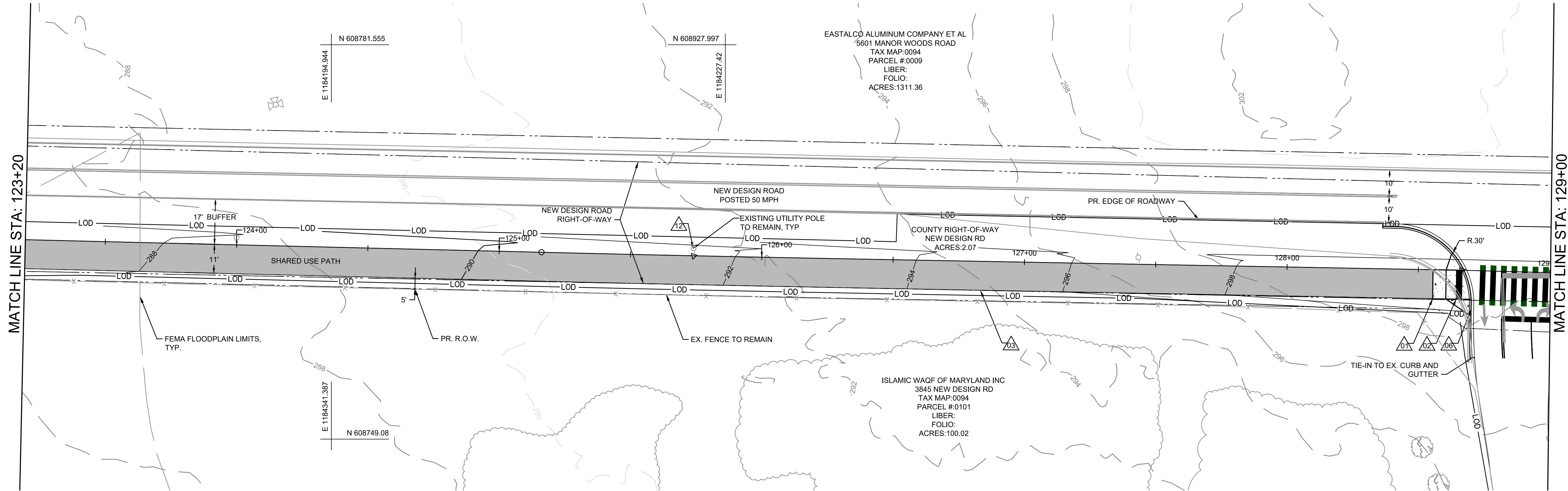
NUMBER KEY

1	DENOTES SIDEWALK RAMP	7	DENOTES STANDARD METAL PIPE END SECTION
2	DENOTES DETECTABLE WARNING SURFACE	8	DENOTES STANDARD METAL PIPE END SUPPORT WALL
3	DENOTES FLEXIBLE PAVEMENT SECTION	9	DENOTES BOARDWALK SECTION
4	DENOTES RIGID PAVEMENT SECTION	10	DENOTES RETAINING WALL (OPTIONS A, B & C)
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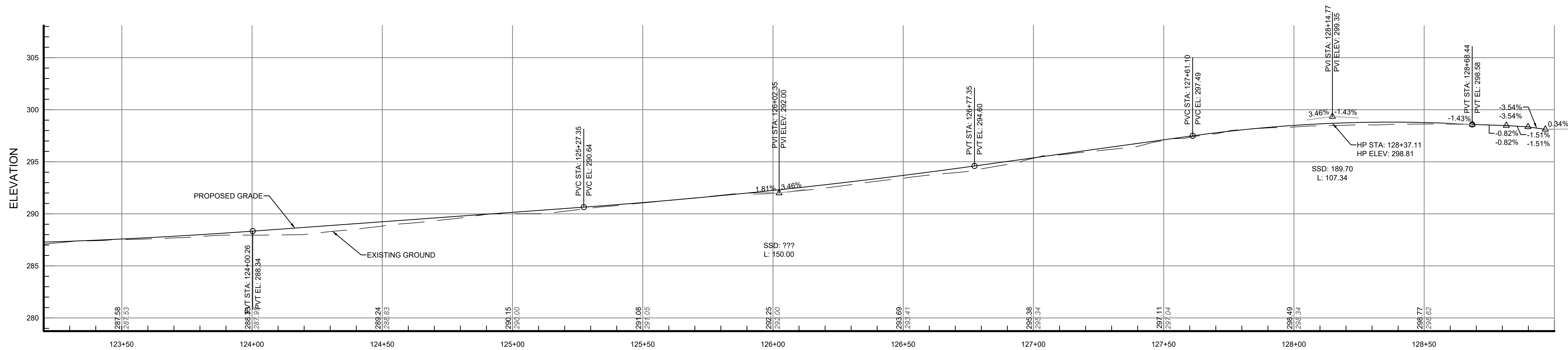
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	JM						SHARED USE PATH PLAN AND PROFILE - 4		DATE 04/2020
	VR								DRAWING NO.
	XXXX								SHEET NO. 10 of 48
	RP	NO.	DATE	REVISION	BY	APVD			



PLAN
1" = 20'



PROFILE
HORIZ: 1" = 20'
VERT: 1" = 5'

NUMBER KEY

- | | | | |
|---|--|----|--|
| 1 | DENOTES SIDEWALK RAMP | 7 | DENOTES STANDARD METAL PIPE END SECTION |
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| 4 | DENOTES RIGID PAVEMENT SECTION | 10 | DENOTES RETAINING WALL (OPTIONS A, B & C) |
| 5 | DENOTES 'TYPE A', CONCRETE CURB | 11 | DENOTES FENCE |
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PROFESSIONAL CERTIFICATION

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PROFESSIONAL ENGINEER UNDER THE
LAWS OF THE STATE OF [STATE].
LICENSE NO. _____
EXPIRATION DATE: _____.

REUSE OF DOCUMENTS

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REUSE OR ALTERATION IS AT THE USER'S SOLE RISK.

JM					
VR					
XXXX					
RP	NO.	DATE	REVISION	BY	APVD

TOOLE
DESIGN

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SILVER SPRING, MD 20910
PHONE: 301.927.1900
FAX: 301.927.2800
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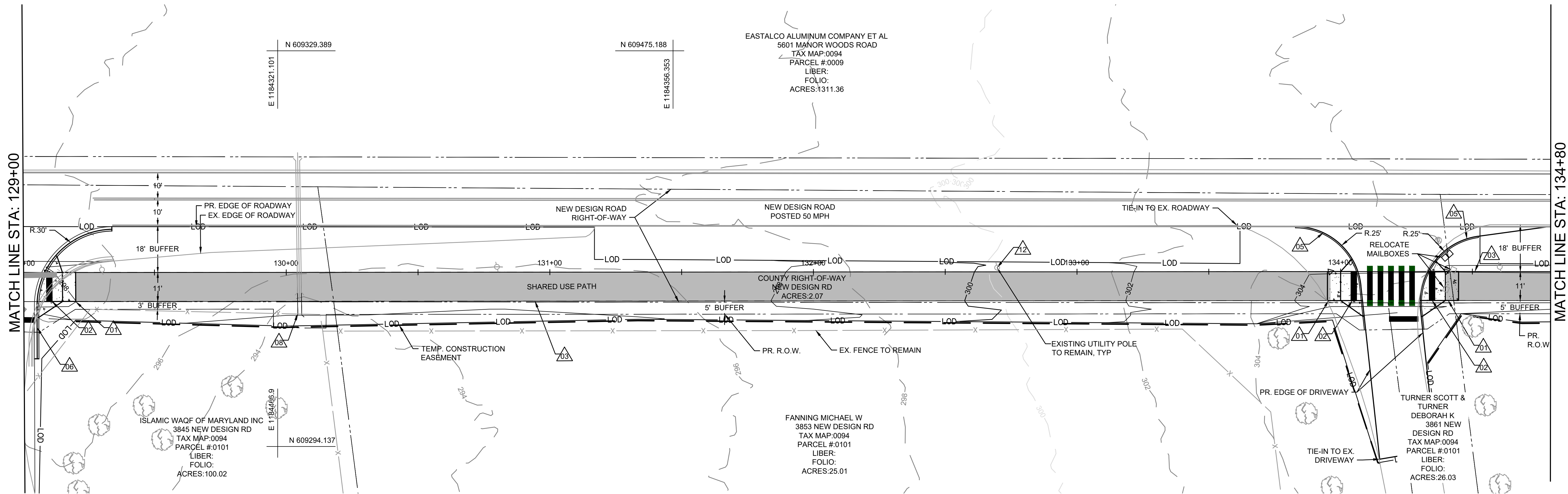
NEW DESIGN ROAD SIDE PATH PHASE 1

DIVISION OF PLANNING AND PERMITTING
FREDERICK COUNTY, MD

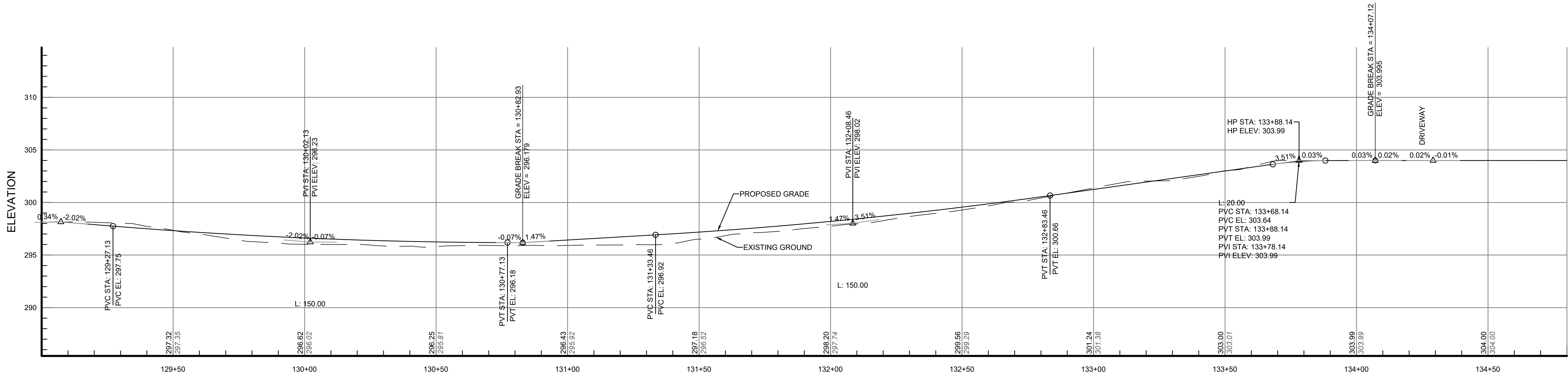
30% DESIGN PLANS

SHARED USE PATH PLAN AND
PROFILE - 5

PROJECT NO.	50730
DATE	04/2020
DRAWING NO.	
SHEET NO.	11 of 48



PLAN
1" = 20'



PROFILE
HORIZ: 1" = 20'
VERT: 1" = 5'

NUMBER KEY

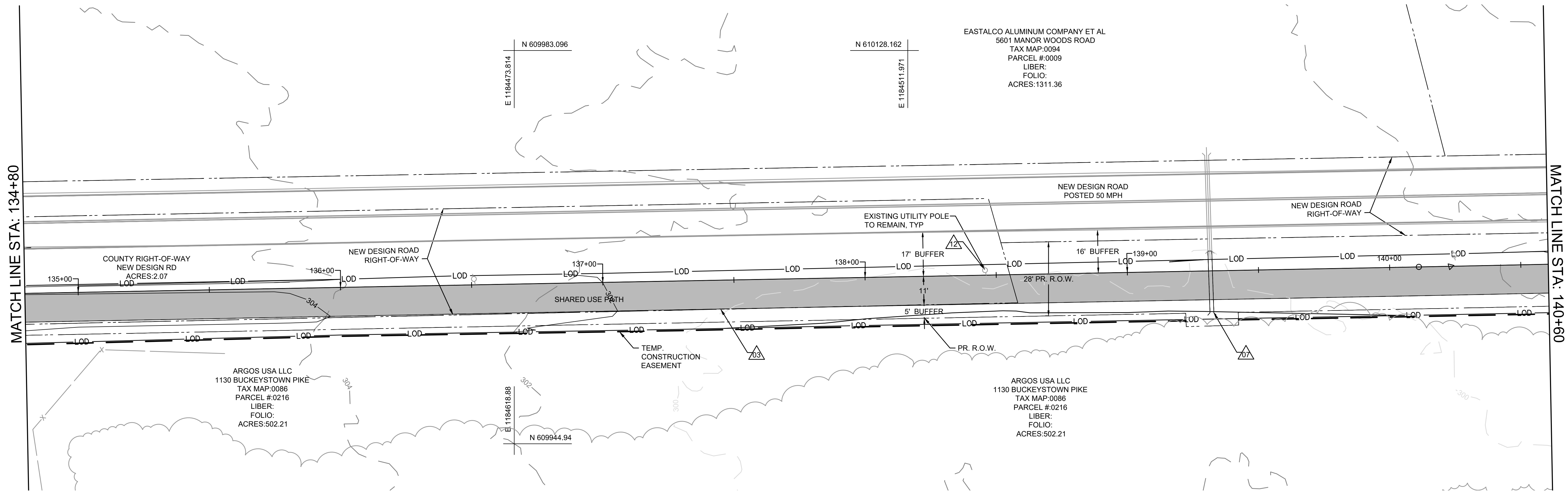
- | | | | |
|---|--|----|--|
| 1 | DENOTES SIDEWALK RAMP | 7 | DENOTES STANDARD METAL PIPE END SECTION |
| 2 | DENOTES DETECTABLE WARNING SURFACE | 8 | DENOTES STANDARD METAL PIPE END SUPPORT WALL |
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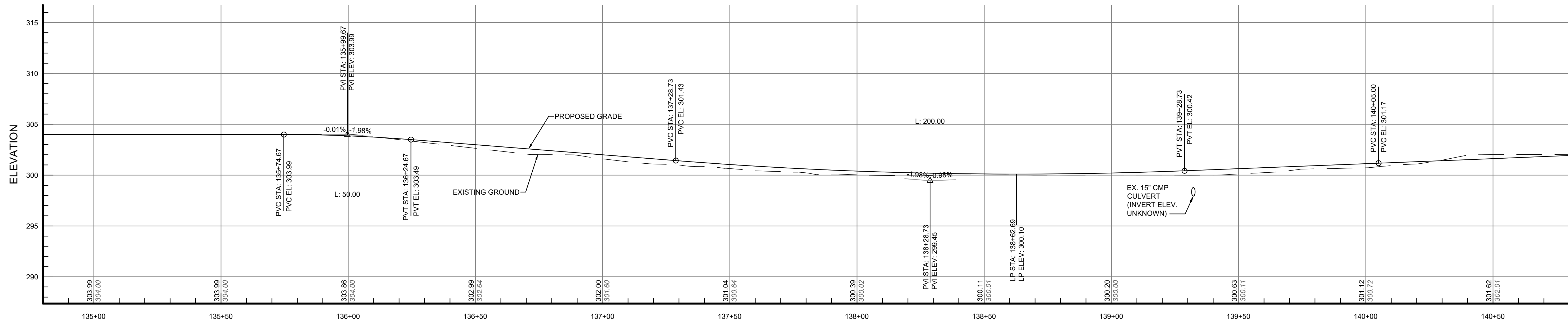
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		JM															DRAWING NO.	
		VR																SHEET NO. 12 of 48
		XXXX																
		RP	NO.	DATE	REVISION				BY	APVD								



PLAN
1" = 20'



PROFILE
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NUMBER KEY

- | | | | |
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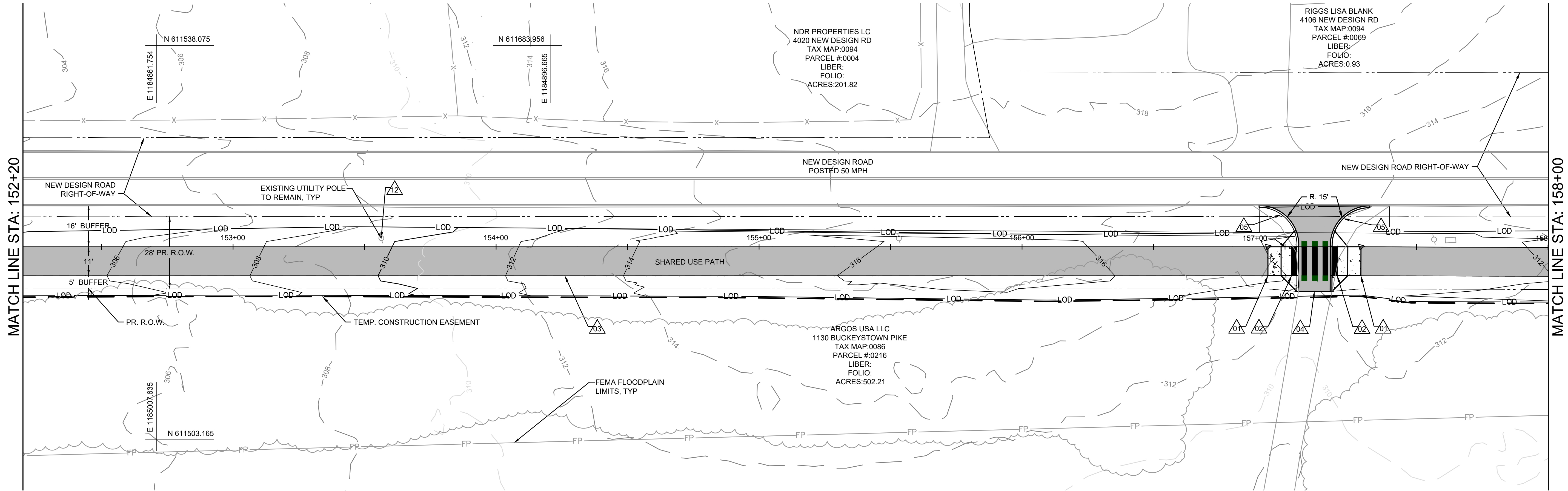
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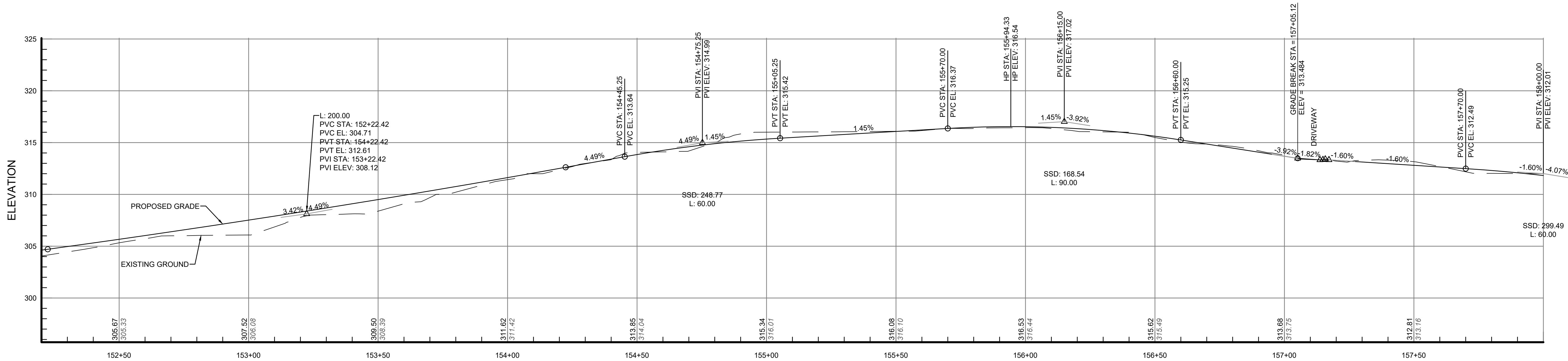
PROFESSIONAL CERTIFICATION		REUSE OF DOCUMENTS				NEW DESIGN ROAD SIDE PATH PHASE 1		30% DESIGN PLANS		PROJECT NO.	
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		JM								DATE	
		VR								04/2020	
		XXXX								DRAWING NO.	
		RP	NO.	DATE	REVISION	BY	APVD			SHEET NO.	
										13 of 48	

TOOLE
DESIGN

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www.tooledesign.com



PLAN
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PROFILE
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VERT: 1" = 5'



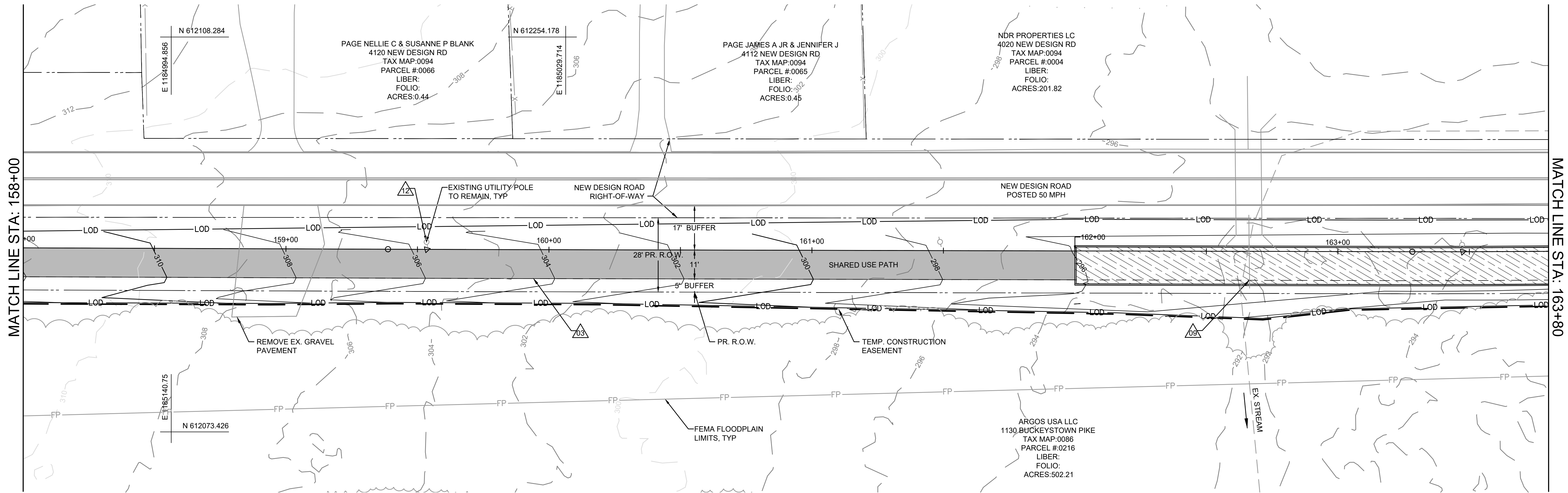
NUMBER KEY

- | | | | |
|---|--|----|--|
| 1 | DENOTES SIDEWALK RAMP | 7 | DENOTES STANDARD METAL PIPE END SECTION |
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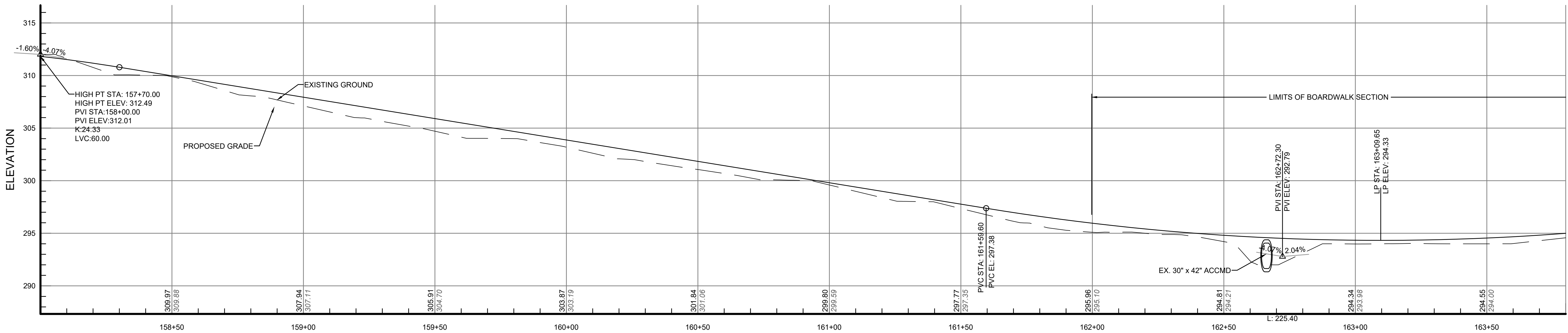
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JM												DRAWING NO.			
VR												SHEET NO.			
XXXX												16 of 48			
LICENSE NO. _____		RP		NO. DATE		REVISION		BY		APVD					
EXPIRATION DATE: _____															



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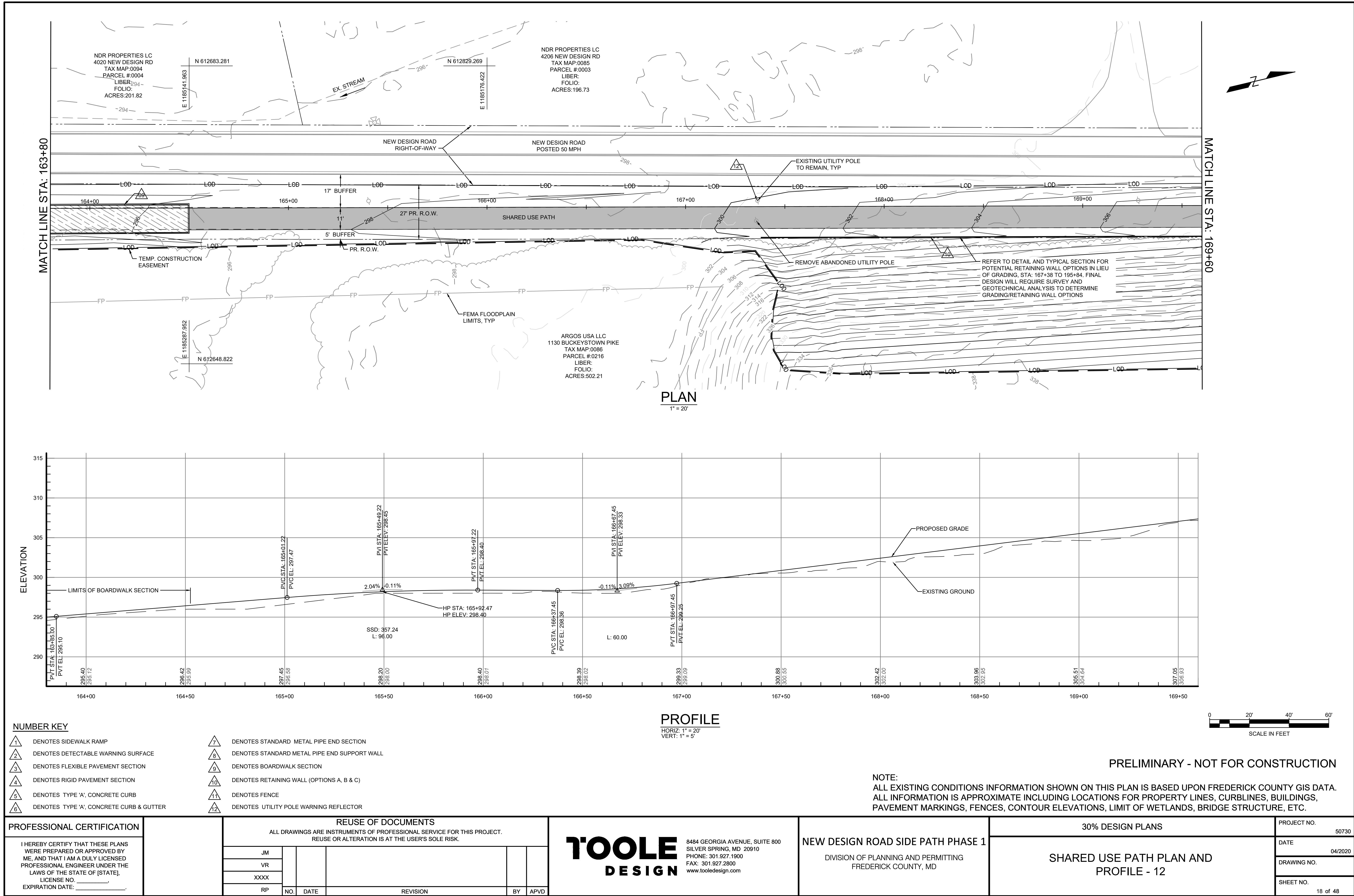
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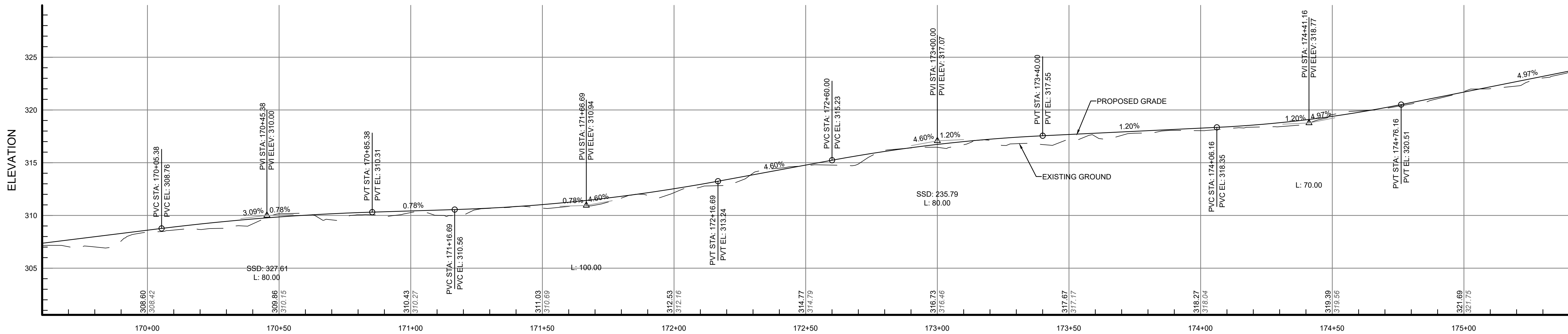
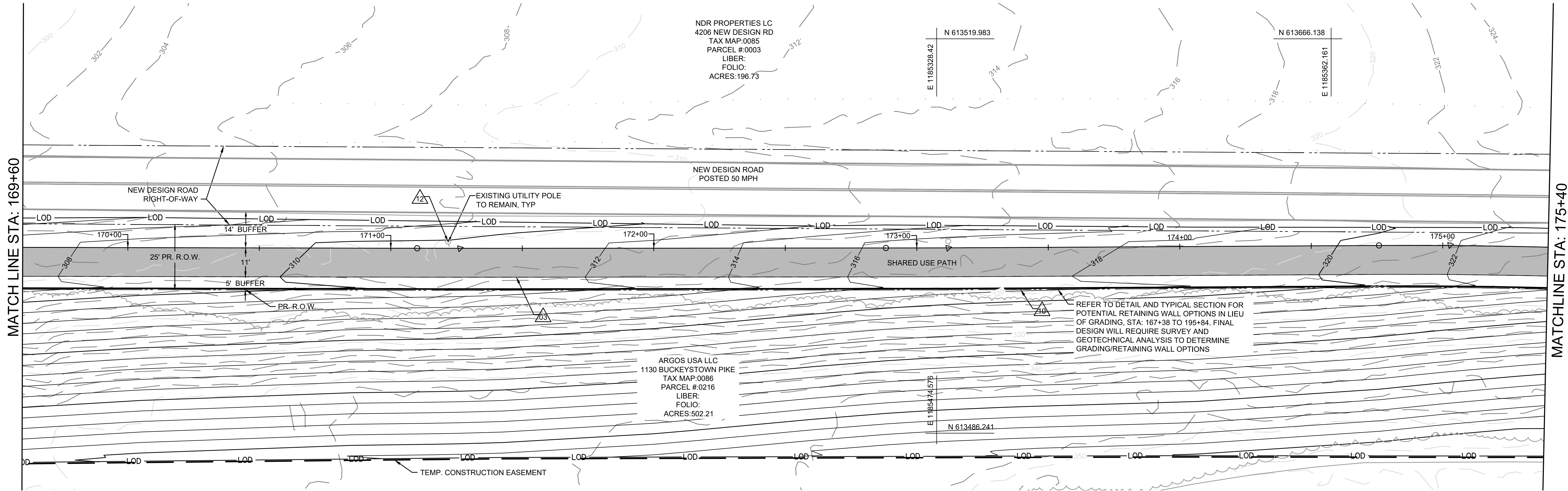
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		JM								DATE	
		VR								04/2020	
		XXXX								DRAWING NO.	
		RP	NO.	DATE	REVISION	BY	APVD			SHEET NO.	
										17 of 48	

TOOLE
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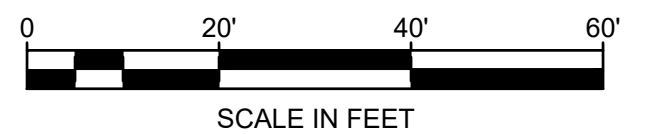




NUMBER KEY

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- 2 DENOTES DETECTABLE WARNING SURFACE
- 3 DENOTES FLEXIBLE PAVEMENT SECTION
- 4 DENOTES RIGID PAVEMENT SECTION
- 5 DENOTES 'TYPE A', CONCRETE CURB
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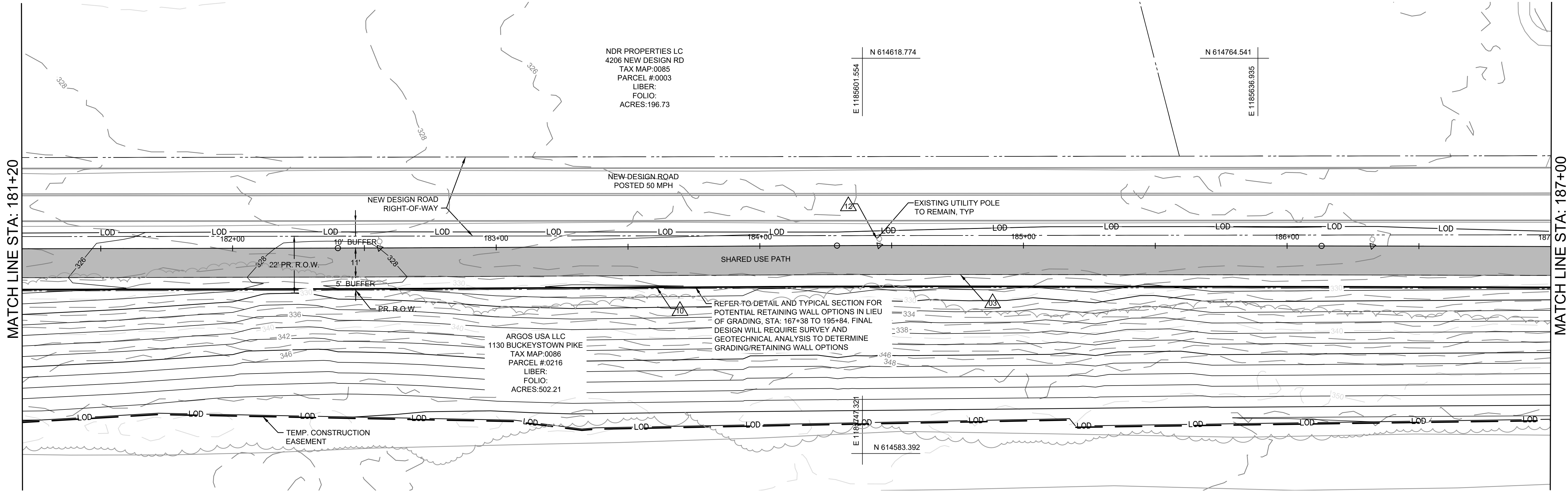
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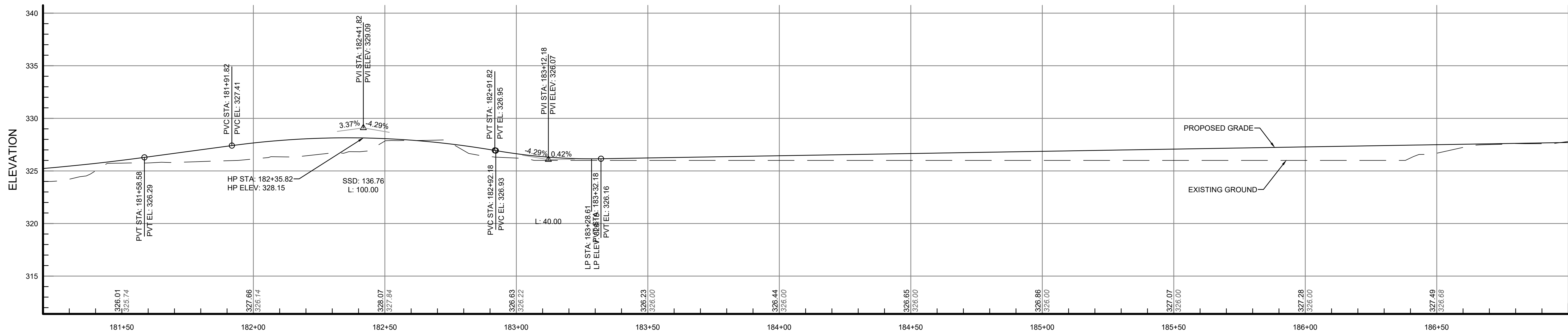
PROFESSIONAL CERTIFICATION		REUSE OF DOCUMENTS				NEW DESIGN ROAD SIDE PATH PHASE 1		30% DESIGN PLANS		PROJECT NO.	
I HEREBY CERTIFY THAT THESE PLANS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF [STATE]. LICENSE NO. _____ EXPIRATION DATE: _____.		ALL DRAWINGS ARE INSTRUMENTS OF PROFESSIONAL SERVICE FOR THIS PROJECT. REUSE OR ALTERATION IS AT THE USER'S SOLE RISK.				DIVISION OF PLANNING AND PERMITTING FREDERICK COUNTY, MD		SHARED USE PATH PLAN AND PROFILE - 13		50730	
		JM								DATE	
		VR								04/2020	
		XXXX								DRAWING NO.	
		RP	NO.	DATE	REVISION					SHEET NO.	
										19 of 48	

TOOLE
DESIGN

8484 GEORGIA AVENUE, SUITE 800
SILVER SPRING, MD 20910
PHONE: 301.927.1900
FAX: 301.927.2800
www.tooledesign.com



PLAN
1" = 20'



PROFILE
HORIZ: 1" = 20'
VERT: 1" = 5'



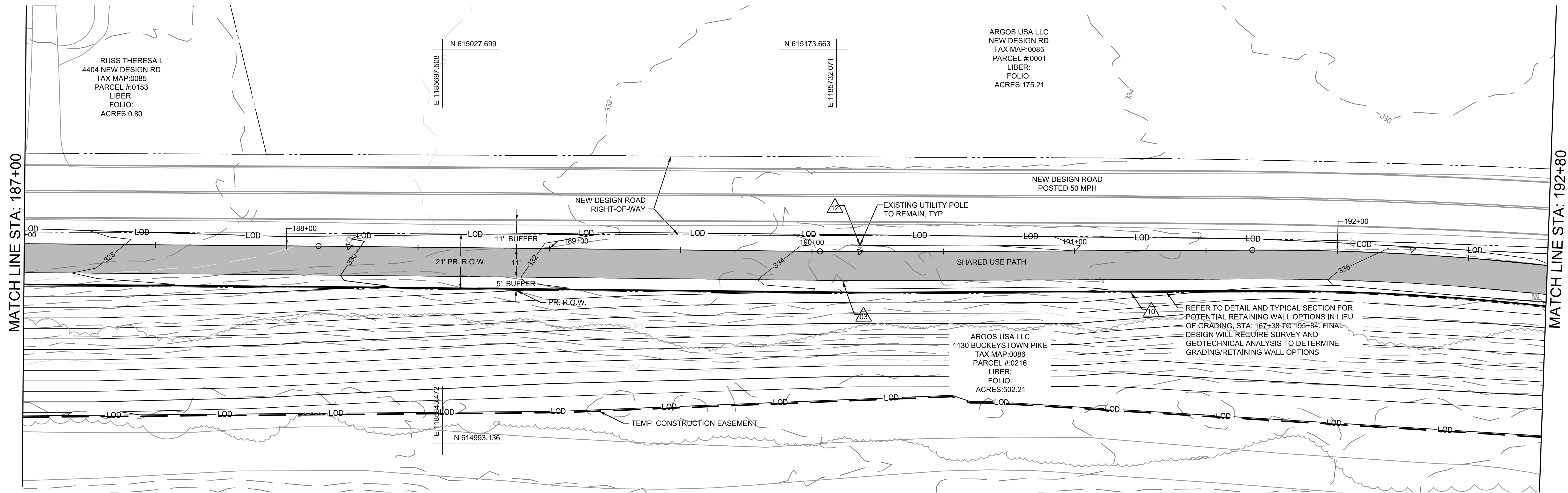
- NUMBER KEY**
- 1 DENOTES SIDEWALK RAMP
 - 2 DENOTES DETECTABLE WARNING SURFACE
 - 3 DENOTES FLEXIBLE PAVEMENT SECTION
 - 4 DENOTES RIGID PAVEMENT SECTION
 - 5 DENOTES 'TYPE A', CONCRETE CURB
 - 6 DENOTES 'TYPE A', CONCRETE CURB & GUTTER

- 7 DENOTES STANDARD METAL PIPE END SECTION
- 8 DENOTES STANDARD METAL PIPE END SUPPORT WALL
- 9 DENOTES BOARDWALK SECTION
- 10 DENOTES RETAINING WALL (OPTIONS A, B & C)
- 11 DENOTES FENCE
- 12 DENOTES UTILITY POLE WARNING REFLECTOR

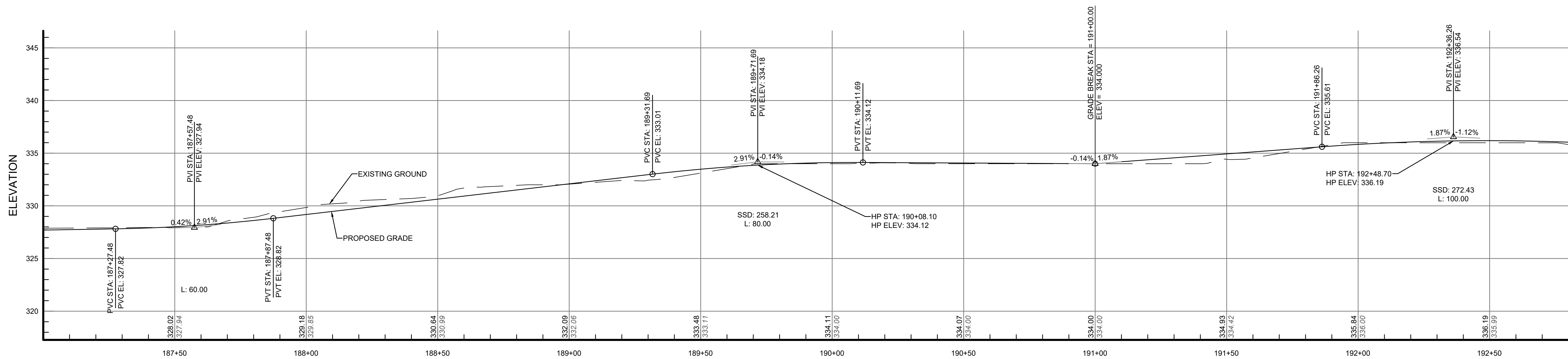
PRELIMINARY - NOT FOR CONSTRUCTION

NOTE:
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PAVEMENT MARKINGS, FENCES, CONTOUR ELEVATIONS, LIMIT OF WETLANDS, BRIDGE STRUCTURE, ETC.

PROFESSIONAL CERTIFICATION		REUSE OF DOCUMENTS						<div>TOOLE DESIGN</div> <div>8484 GEORGIA AVENUE, SUITE 800 SILVER SPRING, MD 20910 PHONE: 301.927.1900 FAX: 301.927.2800 www.tooledesign.com</div>	NEW DESIGN ROAD SIDE PATH PHASE 1	DIVISION OF PLANNING AND PERMITTING FREDERICK COUNTY, MD	30% DESIGN PLANS		PROJECT NO. 50730	
I HEREBY CERTIFY THAT THESE PLANS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF [STATE]. LICENSE NO. _____ EXPIRATION DATE: _____.		ALL DRAWINGS ARE INSTRUMENTS OF PROFESSIONAL SERVICE FOR THIS PROJECT. REUSE OR ALTERATION IS AT THE USER'S SOLE RISK.									SHARED USE PATH PLAN AND PROFILE - 15		DATE 04/2020	
		JM											DRAWING NO.	
		VR											SHEET NO. 21 of 48	
XXXX														
RP		NO.	DATE	REVISION		BY	APVD							



PLAN
1" = 20'



PROFILE
HORIZ: 1" = 20'
VERT: 1" = 5'

NUMBER KEY

- | | | | |
|---|--|----|--|
| 1 | DENOTES SIDEWALK RAMP | 7 | DENOTES STANDARD METAL PIPE END SECTION |
| 2 | DENOTES DETECTABLE WARNING SURFACE | 8 | DENOTES STANDARD METAL PIPE END SUPPORT WALL |
| 3 | DENOTES FLEXIBLE PAVEMENT SECTION | 9 | DENOTES BOARDWALK SECTION |
| 4 | DENOTES RIGID PAVEMENT SECTION | 10 | DENOTES RETAINING WALL (OPTIONS A, B & C) |
| 5 | DENOTES 'TYPE A', CONCRETE CURB | 11 | DENOTES FENCE |
| 6 | DENOTES 'TYPE A', CONCRETE CURB & GUTTER | 12 | DENOTES UTILITY POLE WARNING REFLECTOR |

PRELIMINARY - NOT FOR CONSTRUCTION

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PROFESSIONAL CERTIFICATION

I HEREBY CERTIFY THAT THESE PLANS
WERE PREPARED OR APPROVED BY
ME, AND THAT I AM A DULY LICENSED
PROFESSIONAL ENGINEER UNDER THE
LAWS OF THE STATE OF [STATE].
LICENSE NO. _____
EXPIRATION DATE: _____.

REUSE OF DOCUMENTS

ALL DRAWINGS ARE INSTRUMENTS OF PROFESSIONAL SERVICE FOR THIS PROJECT.
REUSE OR ALTERATION IS AT THE USER'S SOLE RISK.

JM					
VR					
XXXX					
RP	NO.	DATE	REVISION	BY	APVD

TOOLE
DESIGN

8484 GEORGIA AVENUE, SUITE 800
SILVER SPRING, MD 20910
PHONE: 301.927.1900
FAX: 301.927.2800
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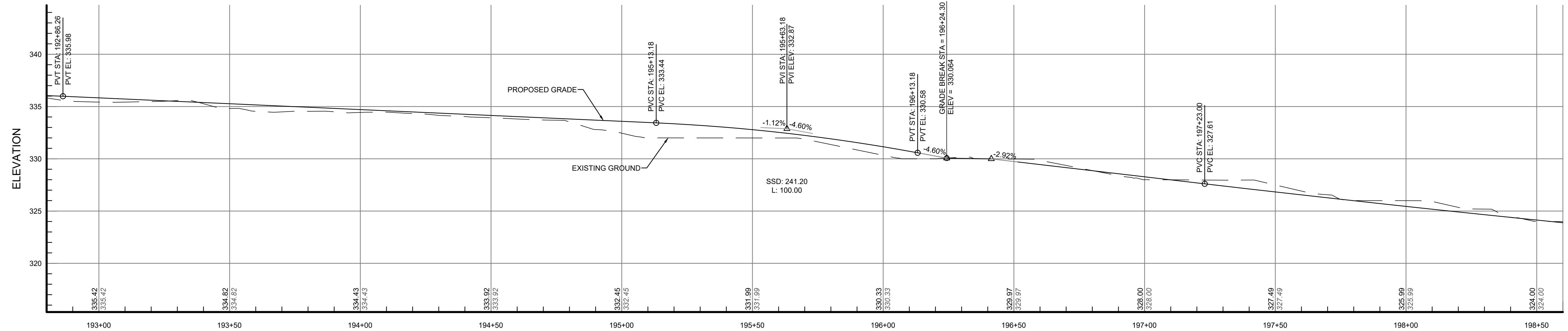
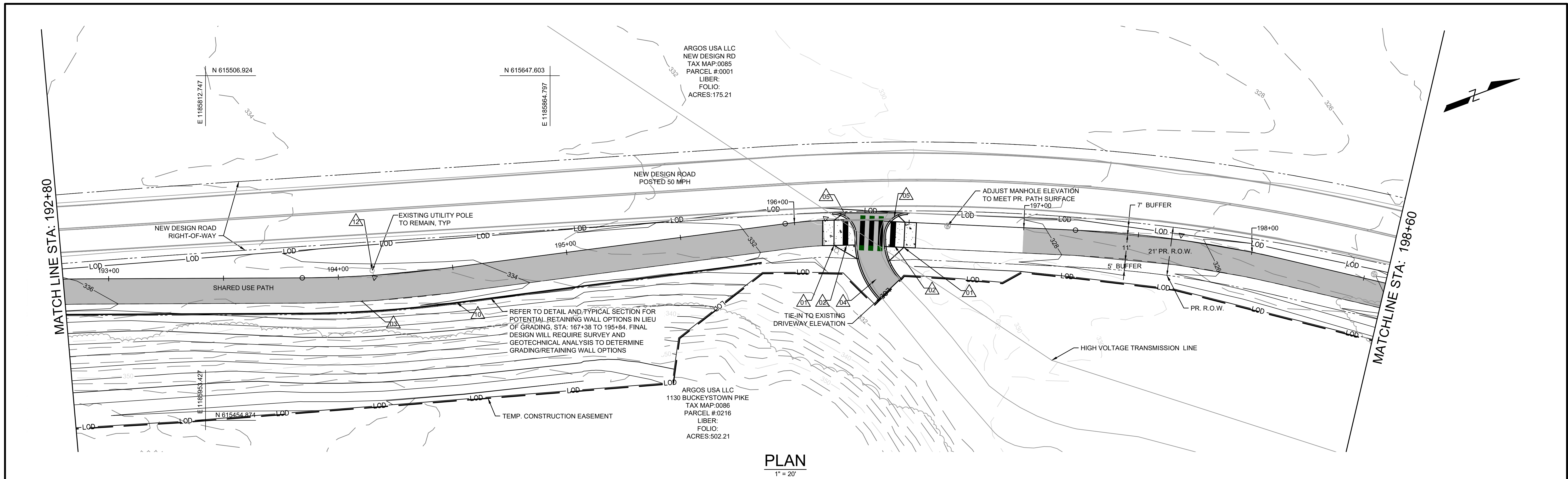
NEW DESIGN ROAD SIDE PATH PHASE 1

DIVISION OF PLANNING AND PERMITTING
FREDERICK COUNTY, MD

30% DESIGN PLANS

SHARED USE PATH PLAN AND
PROFILE - 16

PROJECT NO.	50730
DATE	04/2020
DRAWING NO.	
SHEET NO.	22 of 48



NUMBER KEY

- 1 DENOTES SIDEWALK RAMP
- 2 DENOTES DETECTABLE WARNING SURFACE
- 3 DENOTES FLEXIBLE PAVEMENT SECTION
- 4 DENOTES RIGID PAVEMENT SECTION
- 5 DENOTES 'TYPE A', CONCRETE CURB
- 6 DENOTES 'TYPE A', CONCRETE CURB & GUTTER

- 7 DENOTES STANDARD METAL PIPE END SECTION
- 8 DENOTES STANDARD METAL PIPE END SUPPORT WALL
- 9 DENOTES BOARDWALK SECTION
- 10 DENOTES RETAINING WALL (OPTIONS A, B & C)
- 11 DENOTES FENCE
- 12 DENOTES UTILITY POLE WARNING REFLECTOR

PROFILE

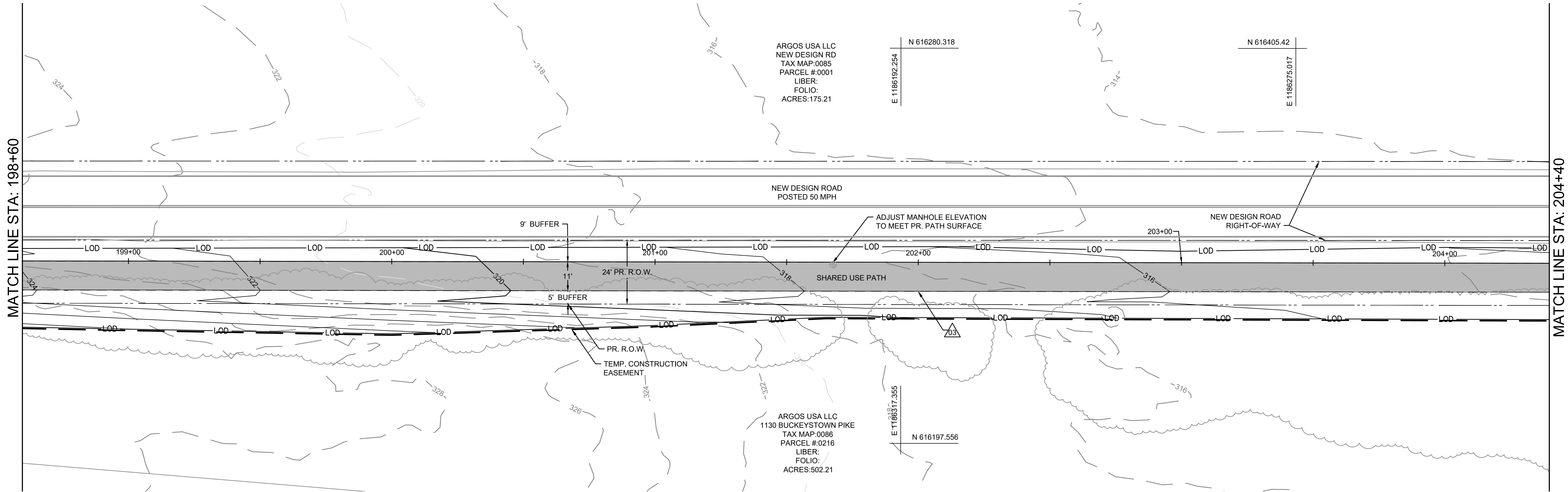
HORIZ: 1" = 20'
VERT: 1" = 5'



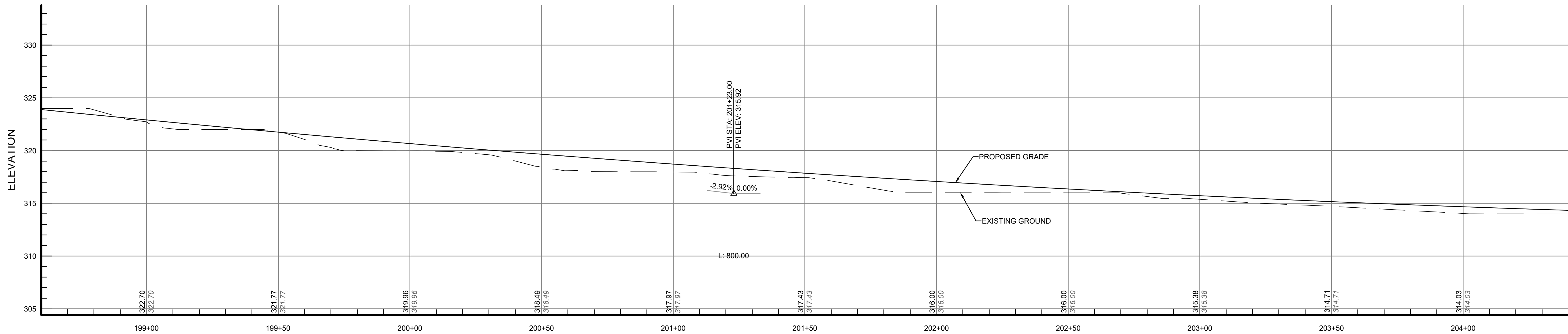
PRELIMINARY - NOT FOR CONSTRUCTION

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PAVEMENT MARKINGS, FENCES, CONTOUR ELEVATIONS, LIMIT OF WETLANDS, BRIDGE STRUCTURE, ETC.

PROFESSIONAL CERTIFICATION		REUSE OF DOCUMENTS							TOOLE DESIGN		8484 GEORGIA AVENUE, SUITE 800 SILVER SPRING, MD 20910 PHONE: 301.927.1900 FAX: 301.927.2800 www.tooledesign.com		NEW DESIGN ROAD SIDE PATH PHASE 1 DIVISION OF PLANNING AND PERMITTING FREDERICK COUNTY, MD		30% DESIGN PLANS		PROJECT NO.	
I HEREBY CERTIFY THAT THESE PLANS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF [STATE]. LICENSE NO. _____, EXPIRATION DATE: _____.		ALL DRAWINGS ARE INSTRUMENTS OF PROFESSIONAL SERVICE FOR THIS PROJECT. REUSE OR ALTERATION IS AT THE USER'S SOLE RISK.													50730			
		JM														DATE		
		VR														04/2020		
XXXX	DRAWING NO.																	
		RP	NO.	DATE	REVISION			BY	APVD			SHEET NO.		23 of 48				



PLAN
1" = 20'



PROFILE
HORIZ: 1" = 20'
VERT: 1" = 5'

NUMBER KEY

- | | | | |
|---|--|----|--|
| 1 | DENOTES SIDEWALK RAMP | 7 | DENOTES STANDARD METAL PIPE END SECTION |
| 2 | DENOTES DETECTABLE WARNING SURFACE | 8 | DENOTES STANDARD METAL PIPE END SUPPORT WALL |
| 3 | DENOTES FLEXIBLE PAVEMENT SECTION | 9 | DENOTES BOARDWALK SECTION |
| 4 | DENOTES RIGID PAVEMENT SECTION | 10 | DENOTES RETAINING WALL (OPTIONS A, B & C) |
| 5 | DENOTES 'TYPE A', CONCRETE CURB | 11 | DENOTES FENCE |
| 6 | DENOTES 'TYPE A', CONCRETE CURB & GUTTER | 12 | DENOTES UTILITY POLE WARNING REFLECTOR |



PRELIMINARY - NOT FOR CONSTRUCTION

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PROFESSIONAL CERTIFICATION

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WERE PREPARED OR APPROVED BY
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PROFESSIONAL ENGINEER UNDER THE
LAWS OF THE STATE OF [STATE].
LICENSE NO. _____
EXPIRATION DATE: _____.

REUSE OF DOCUMENTS

ALL DRAWINGS ARE INSTRUMENTS OF PROFESSIONAL SERVICE FOR THIS PROJECT.
REUSE OR ALTERATION IS AT THE USER'S SOLE RISK.

JM					
VR					
XXXX					
RP	NO.	DATE	REVISION	BY	APVD

TOOLE
DESIGN

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SILVER SPRING, MD 20910
PHONE: 301.927.1900
FAX: 301.927.2800
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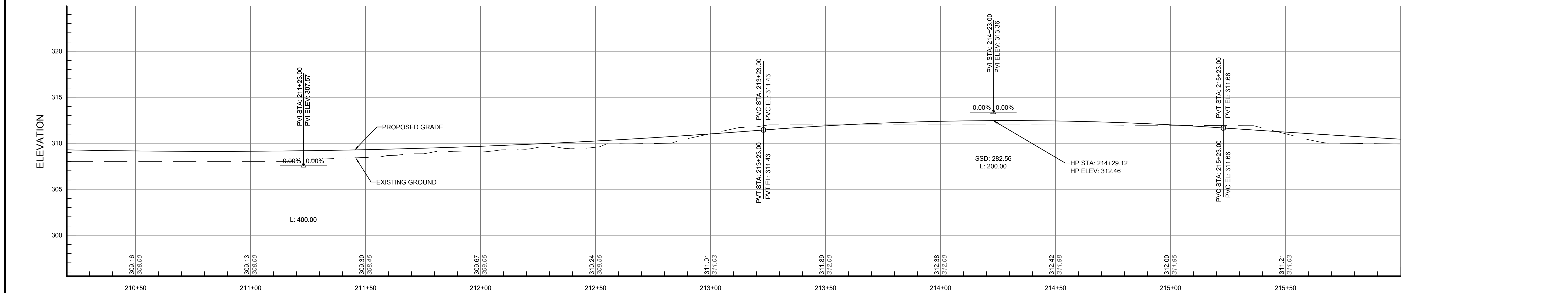
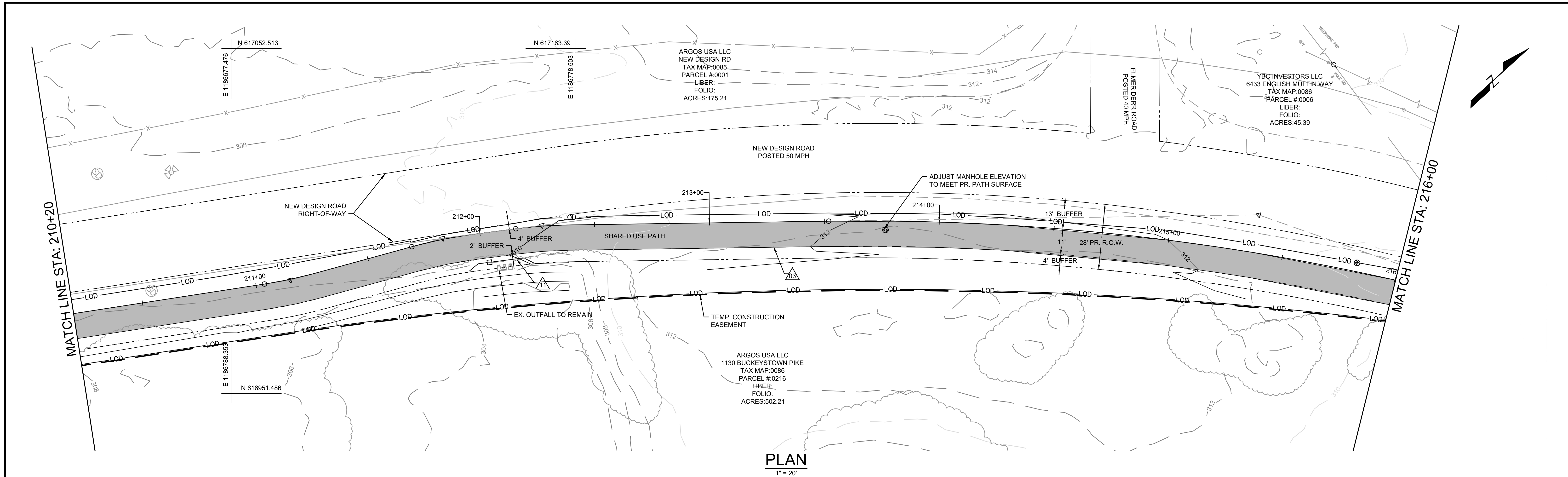
NEW DESIGN ROAD SIDE PATH PHASE 1

DIVISION OF PLANNING AND PERMITTING
FREDERICK COUNTY, MD

30% DESIGN PLANS

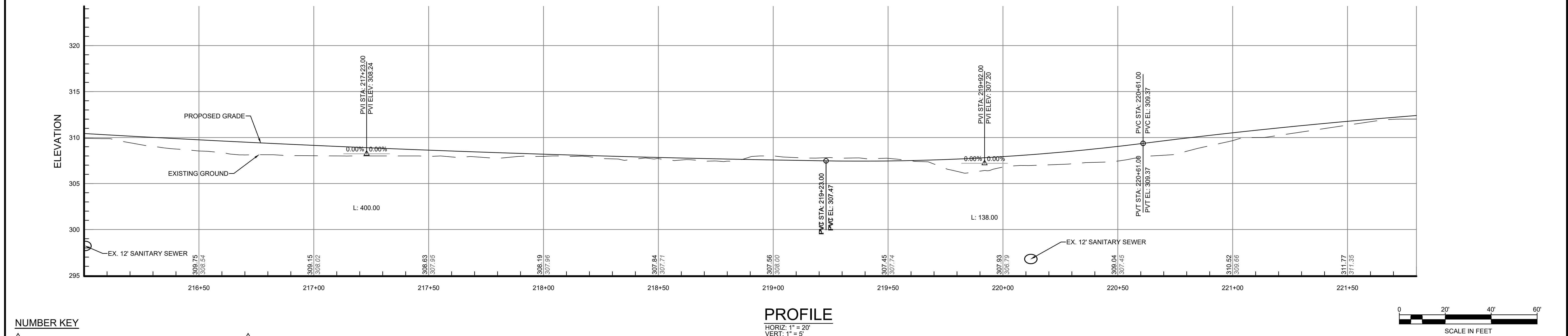
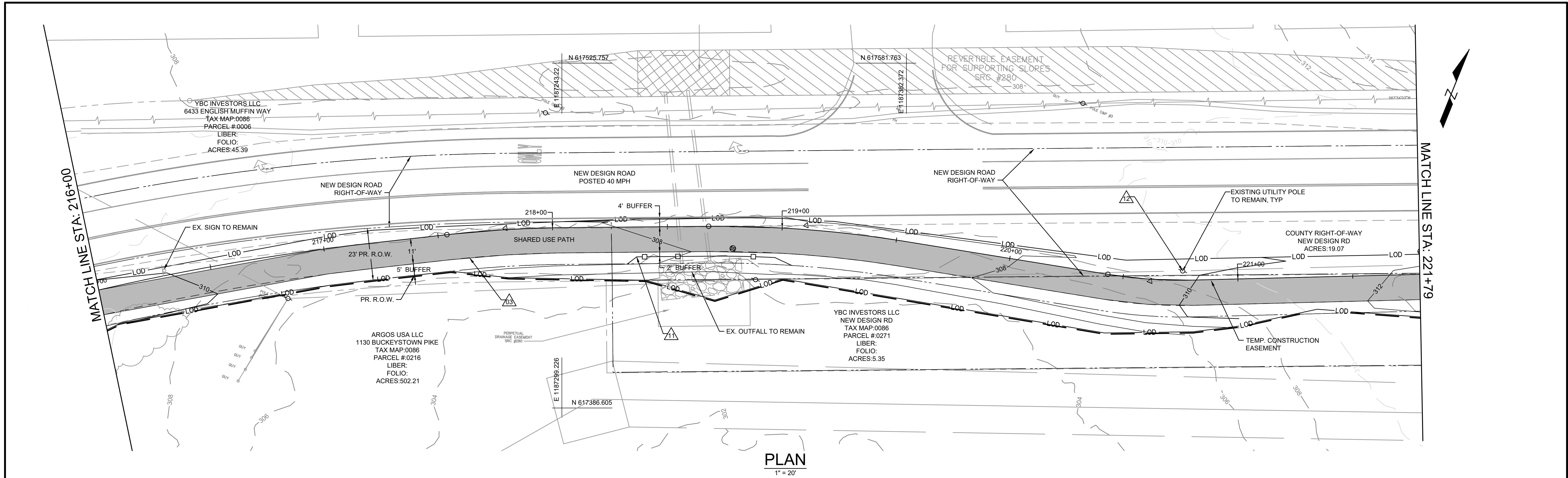
SHARED USE PATH PLAN AND
PROFILE - 18

PROJECT NO.	50730
DATE	04/2020
DRAWING NO.	
SHEET NO.	24 of 48



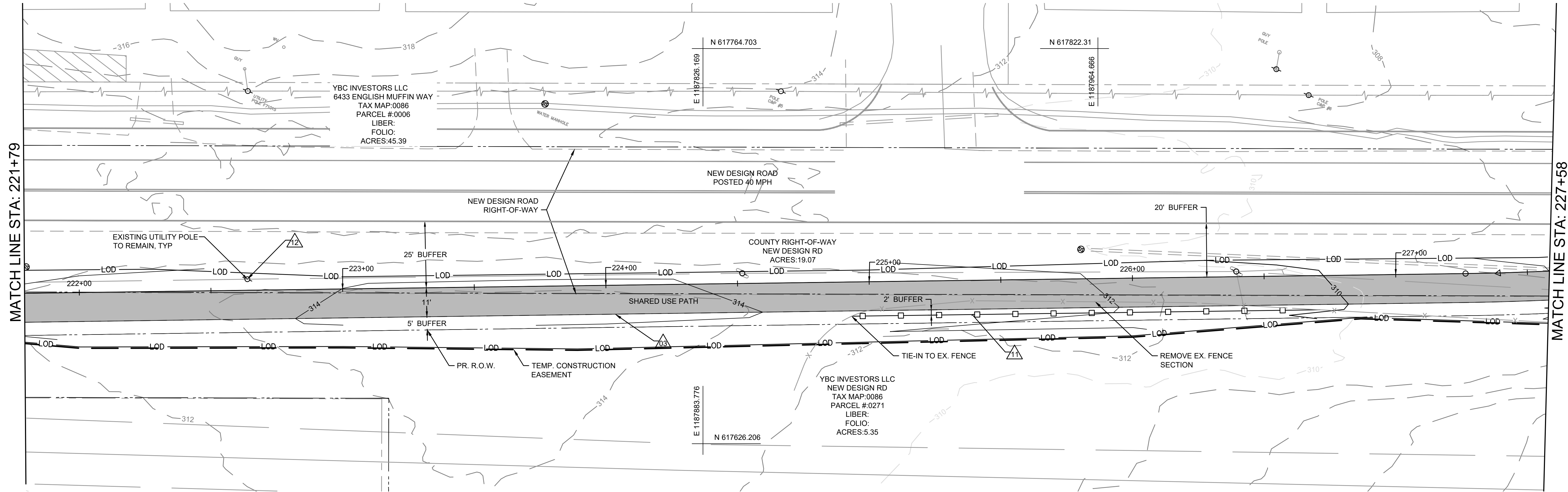
NUMBER KEY	
	DENOTES SIDEWALK RAMP
	DENOTES DETECTABLE WARNING SURFACE
	DENOTES FLEXIBLE PAVEMENT SECTION
	DENOTES RIGID PAVEMENT SECTION
	DENOTES 'TYPE A', CONCRETE CURB
	DENOTES 'TYPE A', CONCRETE CURB & GUTTER
	DENOTES STANDARD METAL PIPE END SECTION
	DENOTES STANDARD METAL PIPE END SUPPORT WALL
	DENOTES BOARDWALK SECTION
	DENOTES RETAINING WALL (OPTIONS A, B & C)
	DENOTES FENCE
	DENOTES UTILITY POLE WARNING REFLECTOR

PROFESSIONAL CERTIFICATION	REUSE OF DOCUMENTS										NEW DESIGN ROAD SIDE PATH PHASE 1										30% DESIGN PLANS										PROJECT NO. 50730													
	ALL DRAWINGS ARE INSTRUMENTS OF PROFESSIONAL SERVICE FOR THIS PROJECT. REUSE OR ALTERATION IS AT THE USER'S SOLE RISK.										<div>TOOLE DESIGN</div> <div>8484 GEORGIA AVENUE, SUITE 800 SILVER SPRING, MD 20910 PHONE: 301.927.1900 FAX: 301.927.2800 www.tooledesign.com</div>										DIVISION OF PLANNING AND PERMITTING FREDERICK COUNTY, MD										SHARED USE PATH PLAN AND PROFILE - 20										DATE 04/2020			
	JM																																										DRAWING NO.	
	VR																																										SHEET NO. 26 of 48	
	XXXX																																											
I HEREBY CERTIFY THAT THESE PLANS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF [STATE]. LICENSE NO. _____, EXPIRATION DATE: _____.		RP		NO.		DATE		REVISION				BY		APVD																														

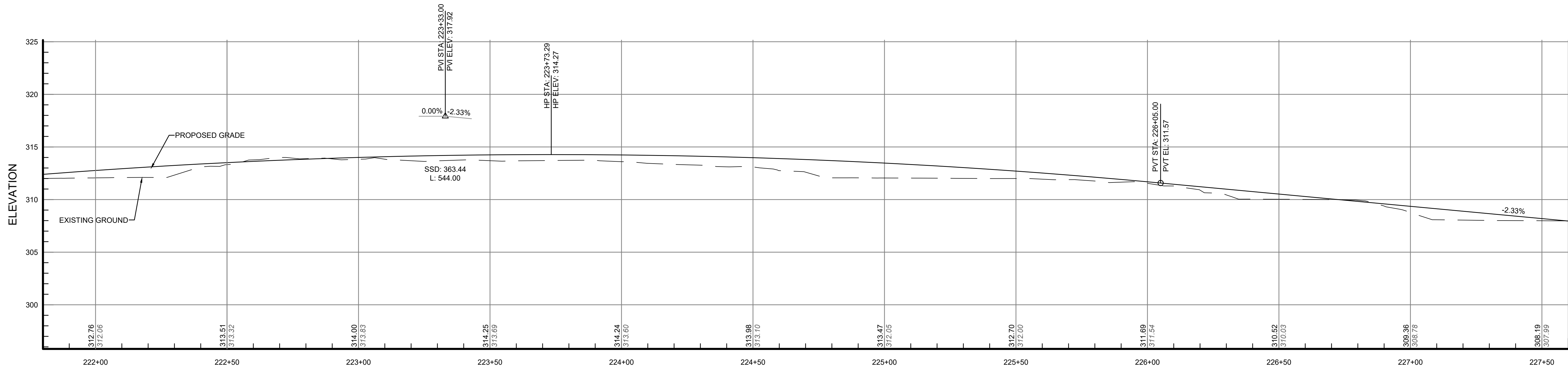


NUMBER KEY	
1	DENOTES SIDEWALK RAMP
2	DENOTES DETECTABLE WARNING SURFACE
3	DENOTES FLEXIBLE PAVEMENT SECTION
4	DENOTES RIGID PAVEMENT SECTION
5	DENOTES 'TYPE A', CONCRETE CURB
6	DENOTES 'TYPE A', CONCRETE CURB & GUTTER
7	DENOTES STANDARD METAL PIPE END SECTION
8	DENOTES STANDARD METAL PIPE END SUPPORT WALL
9	DENOTES BOARDWALK SECTION
10	DENOTES RETAINING WALL (OPTIONS A, B & C)
11	DENOTES FENCE
12	DENOTES UTILITY POLE WARNING REFLECTOR

PROFESSIONAL CERTIFICATION		REUSE OF DOCUMENTS						<div>TOOLE DESIGN</div> <div>8484 GEORGIA AVENUE, SUITE 800 SILVER SPRING, MD 20910 PHONE: 301.927.1900 FAX: 301.927.2800 www.tooledesign.com</div>		NEW DESIGN ROAD SIDE PATH PHASE 1		30% DESIGN PLANS		PROJECT NO. 50730	
ALL DRAWINGS ARE INSTRUMENTS OF PROFESSIONAL SERVICE FOR THIS PROJECT. REUSE OR ALTERATION IS AT THE USER'S SOLE RISK.						SHARED USE PATH PLAN AND PROFILE - 21						DATE 04/2020			
												DRAWING NO.			
												SHEET NO. 27 of 48			
												I HEREBY CERTIFY THAT THESE PLANS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF [STATE]. LICENSE NO. _____ EXPIRATION DATE: _____.		JM	
VR															
XXXX															
RP		NO.		DATE		REVISION		BY APVD							



PLAN
1" = 20'



PROFILE
HORIZ: 1" = 20'
VERT: 1" = 5'



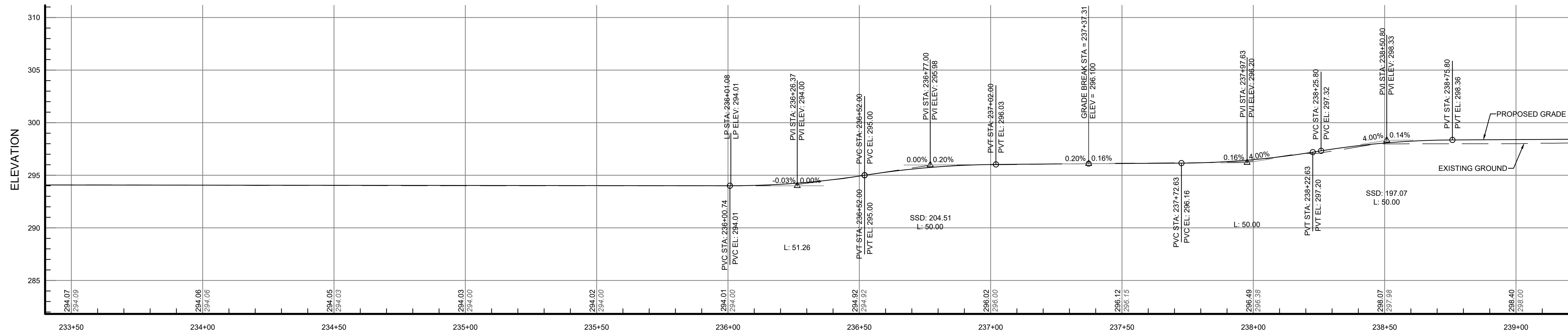
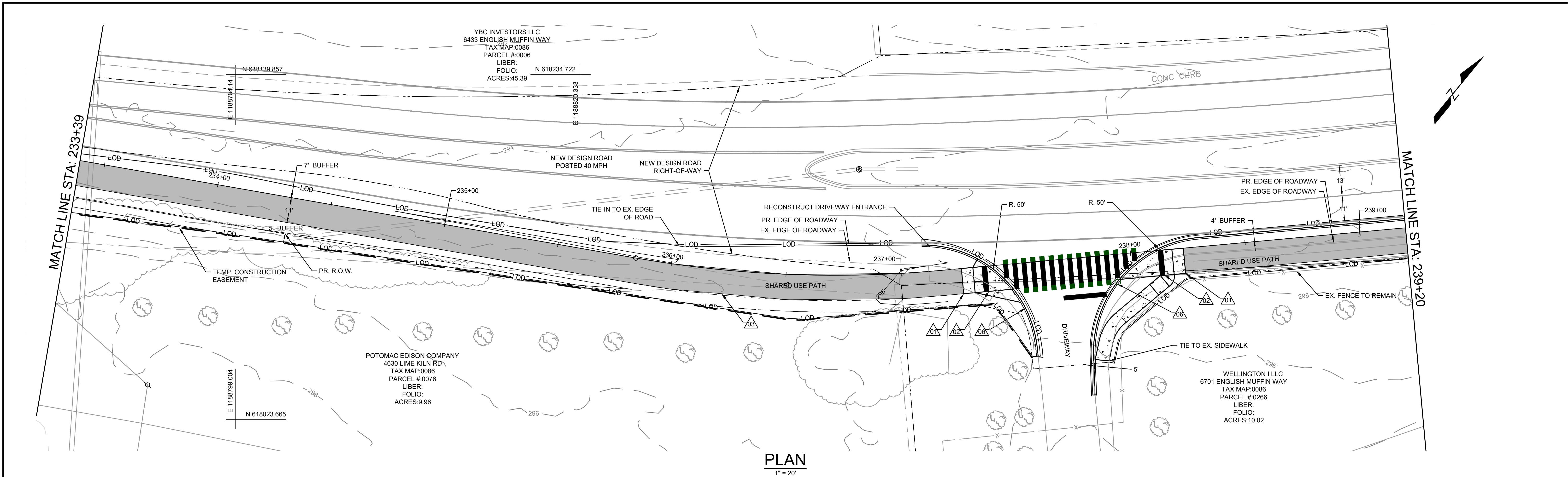
NUMBER KEY

- | | | | |
|---|--|----|--|
| 1 | DENOTES SIDEWALK RAMP | 7 | DENOTES STANDARD METAL PIPE END SECTION |
| 2 | DENOTES DETECTABLE WARNING SURFACE | 8 | DENOTES STANDARD METAL PIPE END SUPPORT WALL |
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| 5 | DENOTES 'TYPE A', CONCRETE CURB | 11 | DENOTES FENCE |
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PRELIMINARY - NOT FOR CONSTRUCTION

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PROFESSIONAL CERTIFICATION		REUSE OF DOCUMENTS							TOOLE DESIGN		8484 GEORGIA AVENUE, SUITE 800 SILVER SPRING, MD 20910 PHONE: 301.927.1900 FAX: 301.927.2800 www.tooledesign.com		NEW DESIGN ROAD SIDE PATH PHASE 1 DIVISION OF PLANNING AND PERMITTING FREDERICK COUNTY, MD		30% DESIGN PLANS		PROJECT NO. 50730	
I HEREBY CERTIFY THAT THESE PLANS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF [STATE]. LICENSE NO. _____, EXPIRATION DATE: _____.		ALL DRAWINGS ARE INSTRUMENTS OF PROFESSIONAL SERVICE FOR THIS PROJECT. REUSE OR ALTERATION IS AT THE USER'S SOLE RISK.													SHARED USE PATH PLAN AND PROFILE - 22		DATE 04/2020	
		JM														DRAWING NO.		
		VR														SHEET NO. 28 of 48		
XXXX																		
RP		NO.	DATE	REVISION				BY	APVD									



NUMBER KEY

- 1 DENOTES SIDEWALK RAMP
- 2 DENOTES DETECTABLE WARNING SURFACE
- 3 DENOTES FLEXIBLE PAVEMENT SECTION
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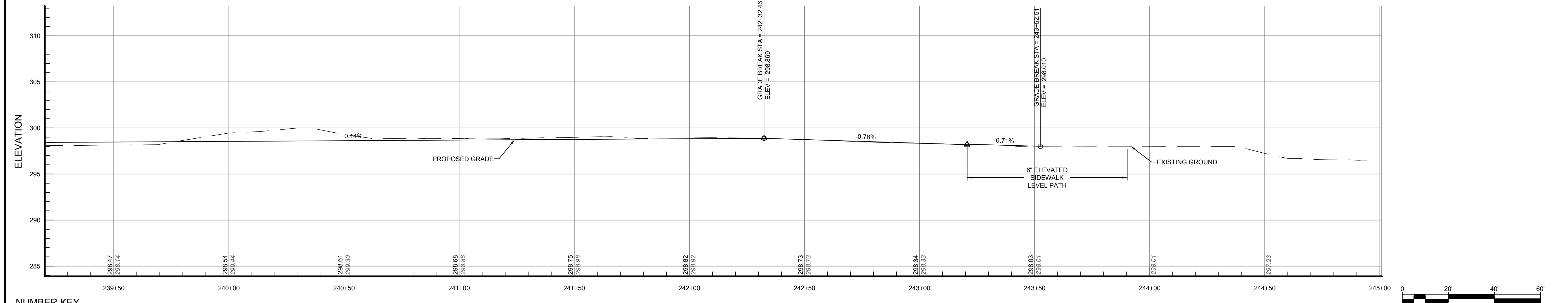
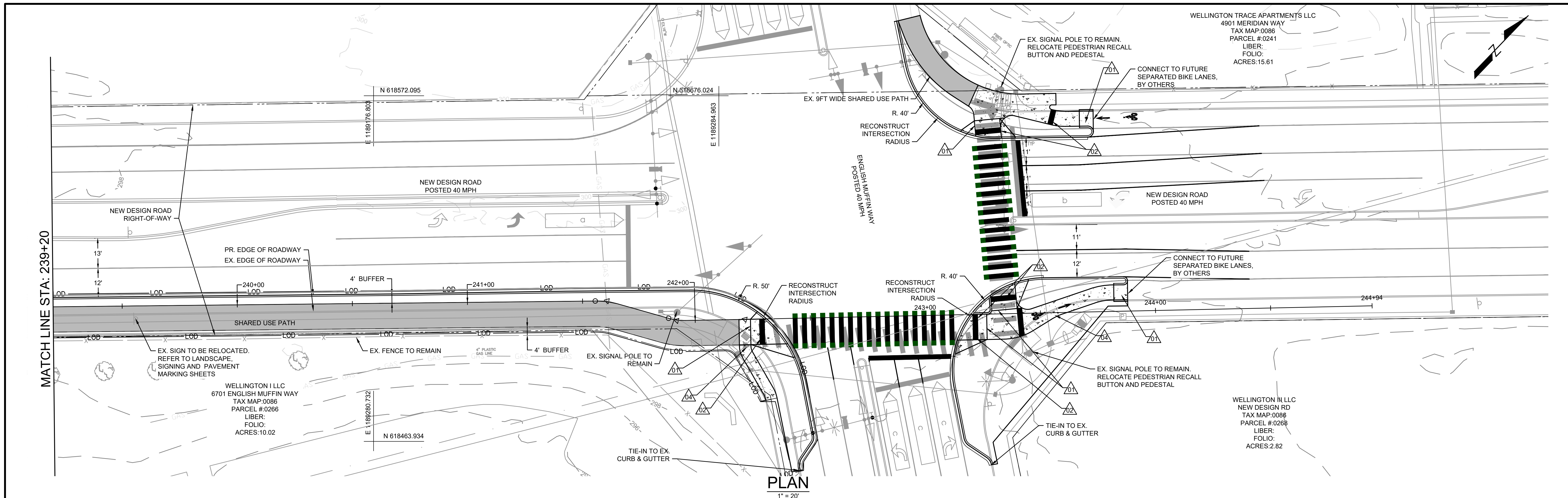
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PROFESSIONAL CERTIFICATION		REUSE OF DOCUMENTS				NEW DESIGN ROAD SIDE PATH PHASE 1		30% DESIGN PLANS		PROJECT NO.	
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		JM								DATE	
		VR								04/2020	
		XXXX								DRAWING NO.	
		RP	NO.	DATE	REVISION					SHEET NO.	
										30 of 48	

TOOLE
DESIGN

6484 GEORGIA AVENUE, SUITE 800
SILVER SPRING, MD 20910
PHONE: 301.927.1900
FAX: 301.927.2800
www.tooledesign.com



- NUMBER KEY**
- | | | | |
|---|---|----|--|
| 1 | DENOTES SIDEWALK RAMP | 7 | DENOTES STANDARD METAL PIPE END SECTION |
| 2 | DENOTES DETECTABLE WARNING SURFACE | 8 | DENOTES STANDARD METAL PIPE END SUPPORT WALL |
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| 5 | DENOTES 'TYPE 'A', CONCRETE CURB | 11 | DENOTES FENCE |
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PROFESSIONAL CERTIFICATION

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LICENSE NO. _____
EXPIRATION DATE: _____

REUSE OF DOCUMENTS					
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JM					
VR					
XXXX					
RP	NO.	DATE	REVISION	BY	APVD

TOOLE DESIGN

8484 GEORGIA AVENUE, SUITE 800
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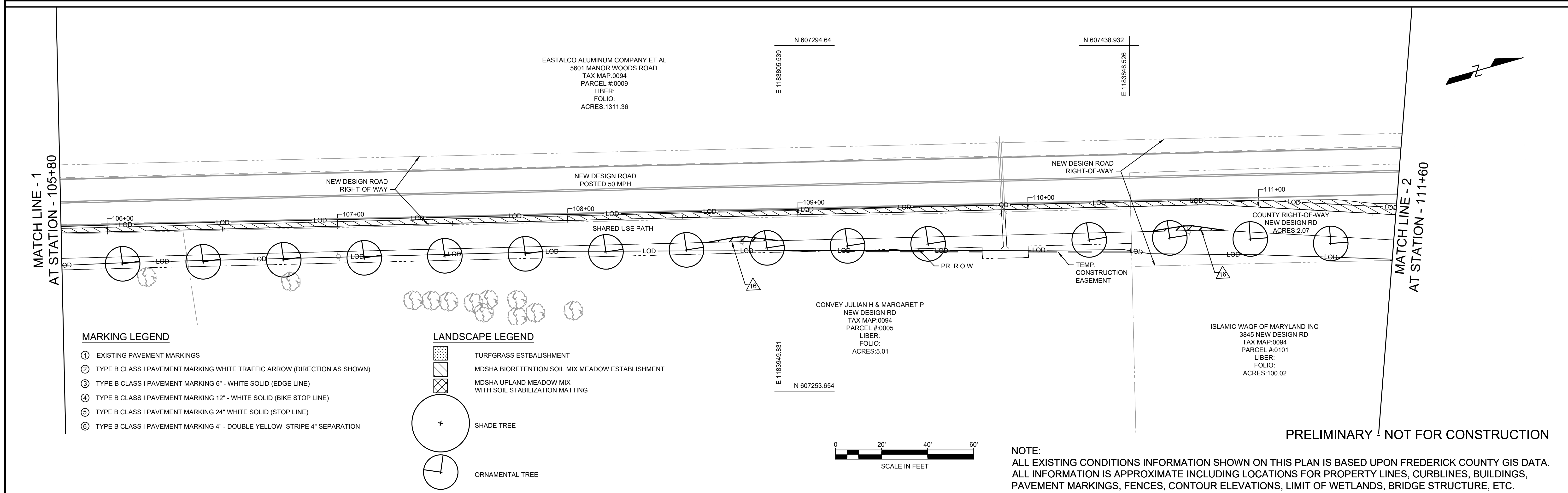
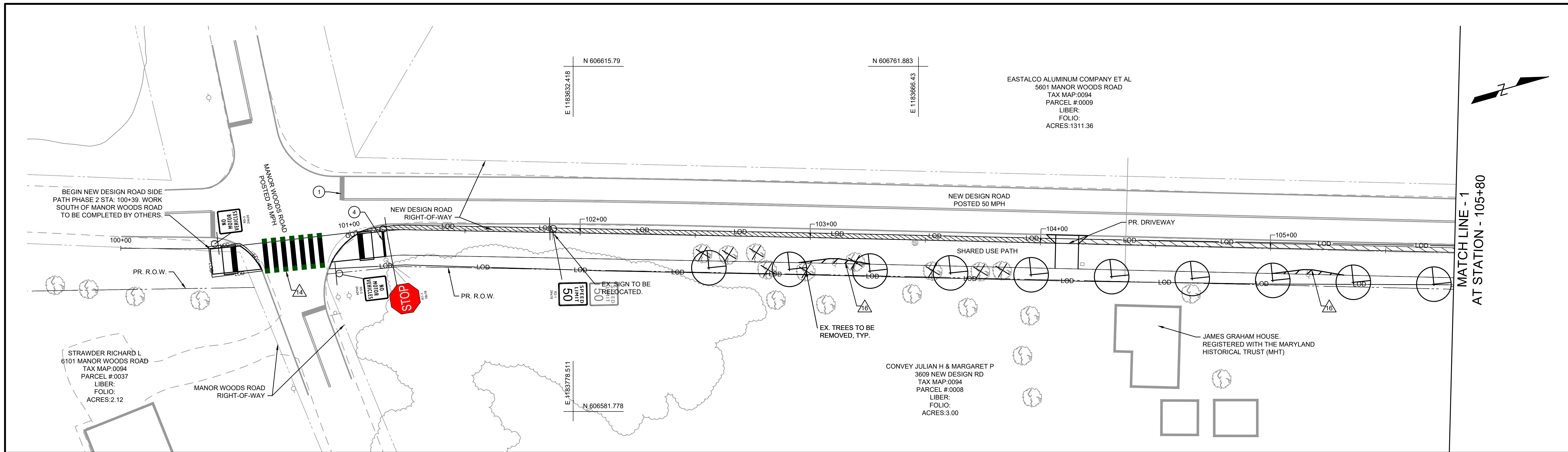
NEW DESIGN ROAD SIDE PATH PHASE 1

DIVISION OF PLANNING AND PERMITTING
FREDERICK COUNTY, MD

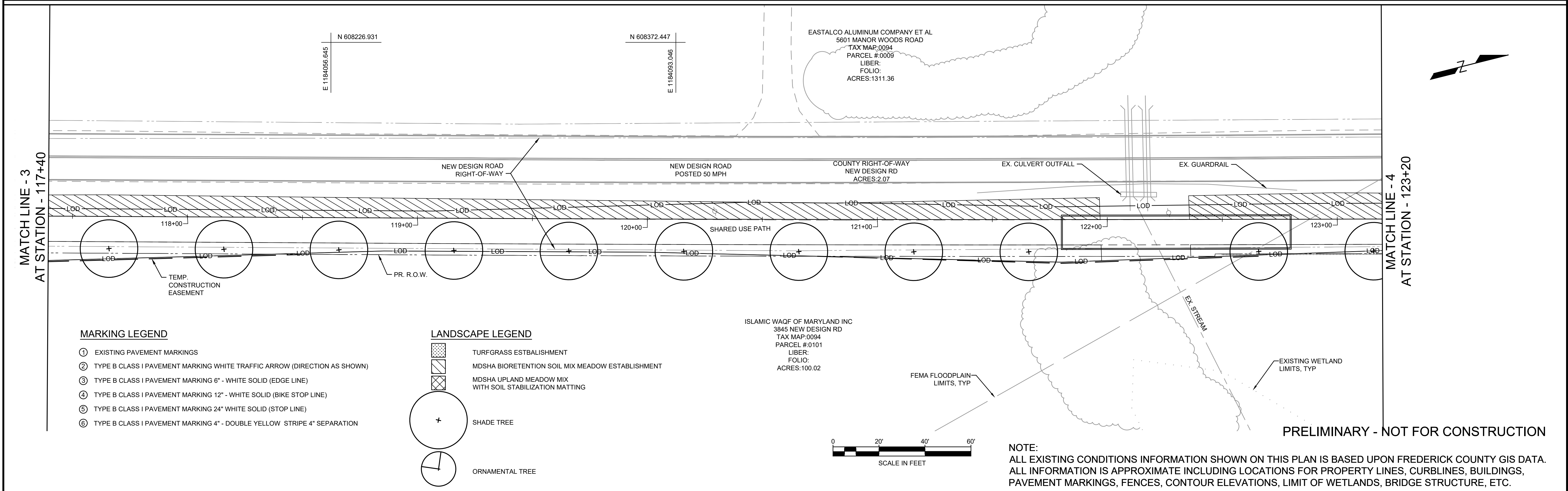
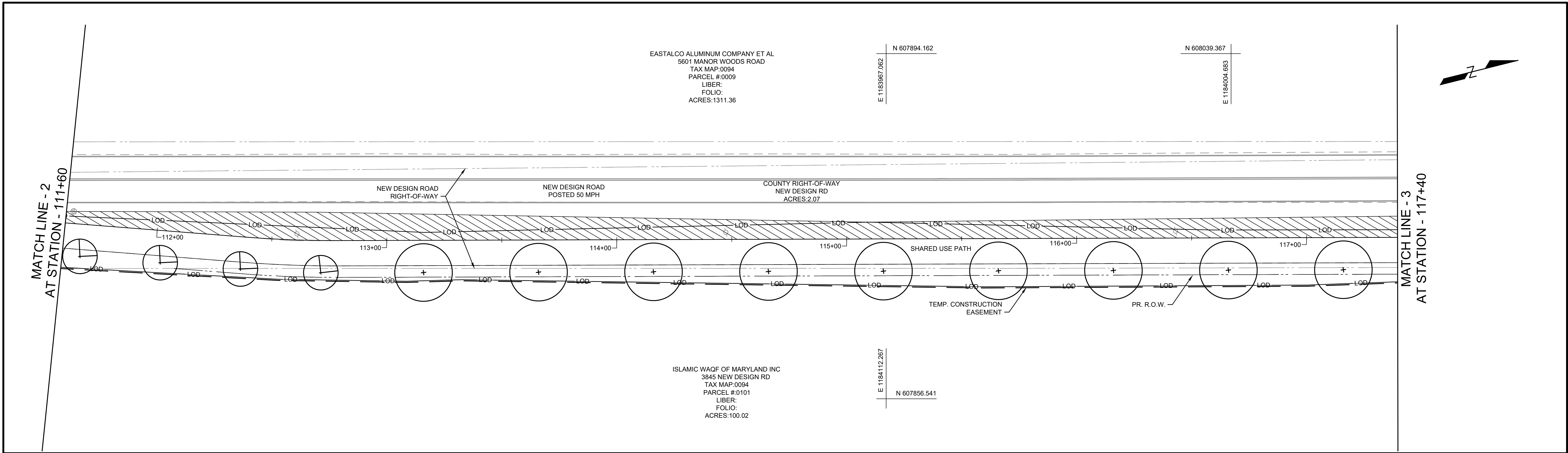
30% DESIGN PLANS		PROJECT NO.
SHARED USE PATH PLAN AND PROFILE - 25		50730
		DATE 04/2020
		DRAWING NO.
		SHEET NO. 31 of 48

NOTE:
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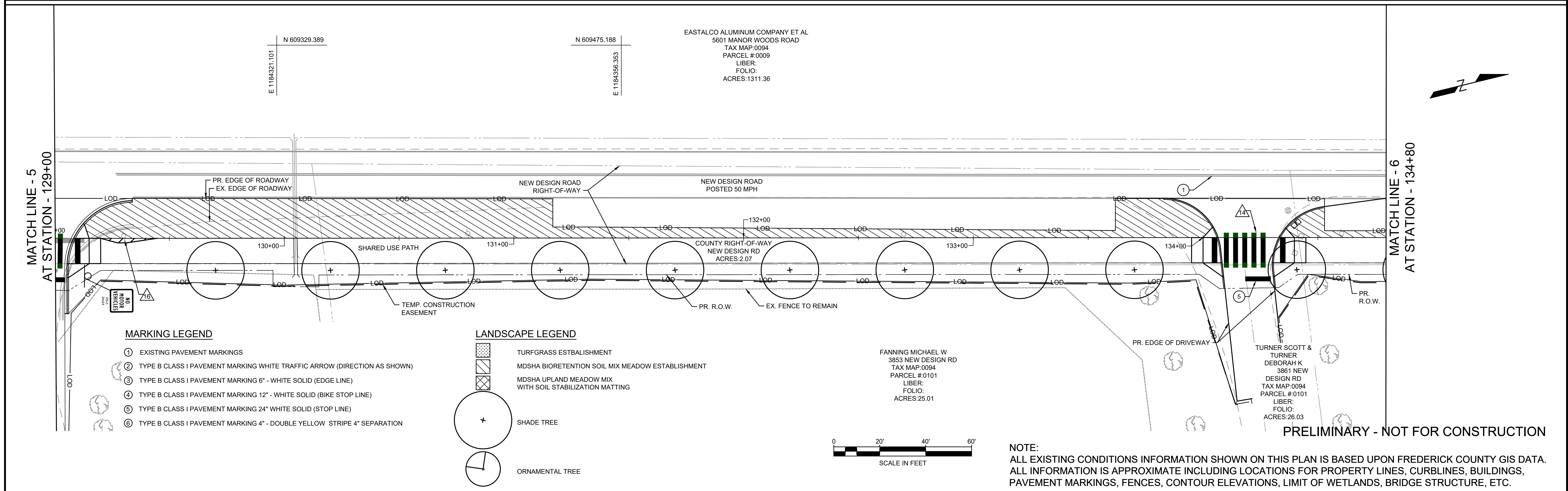
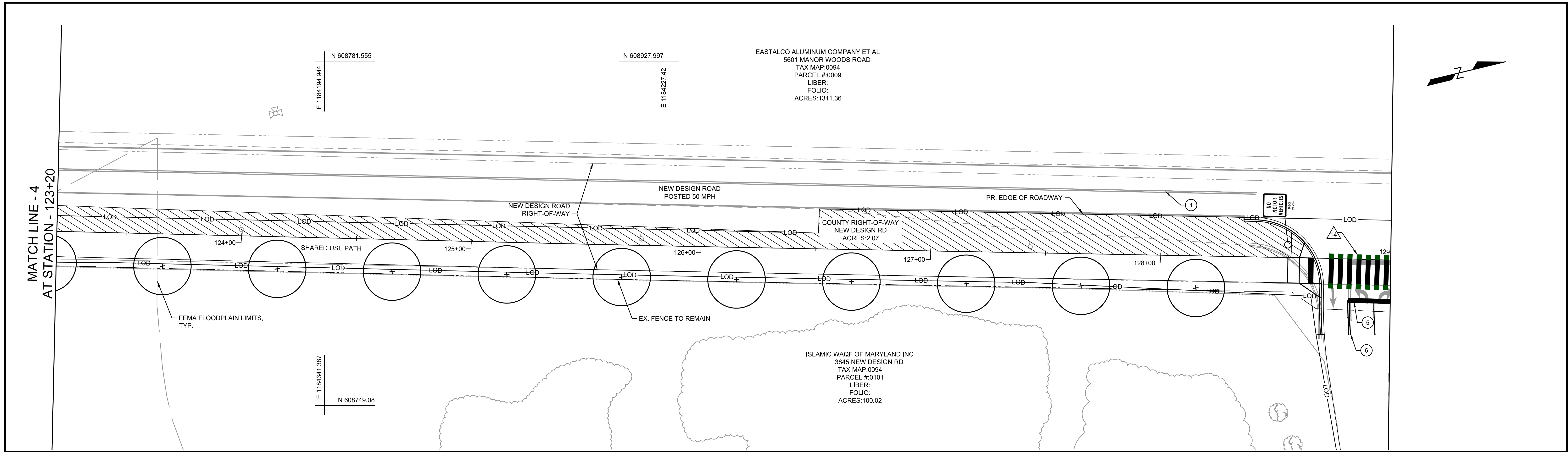
PRELIMINARY - NOT FOR CONSTRUCTION



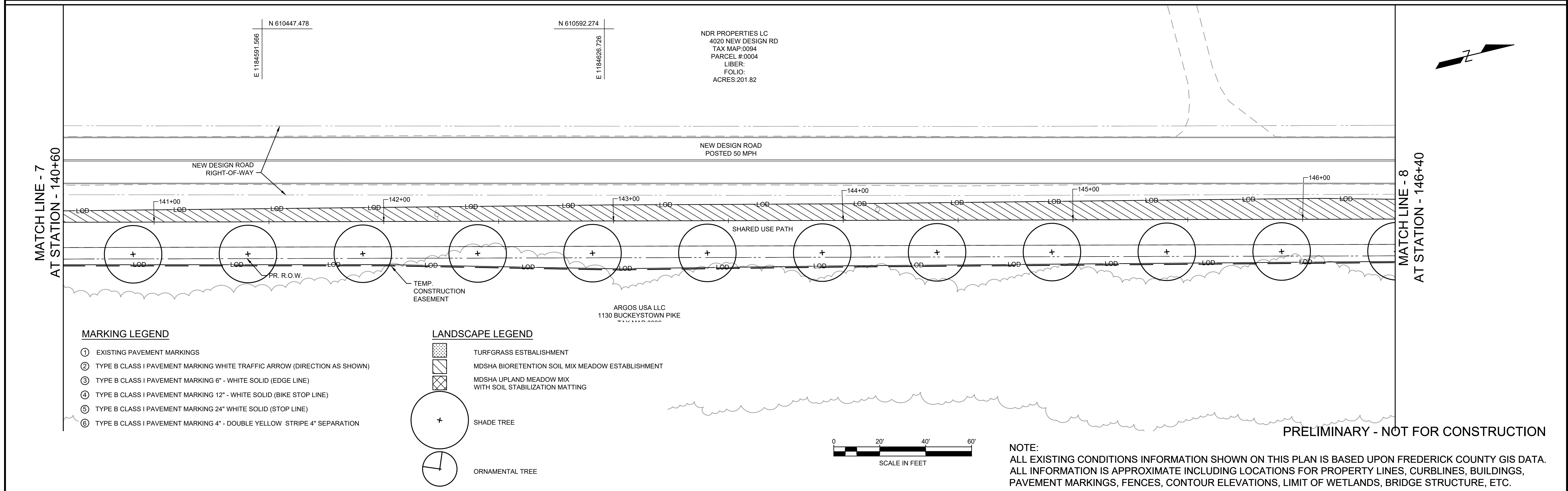
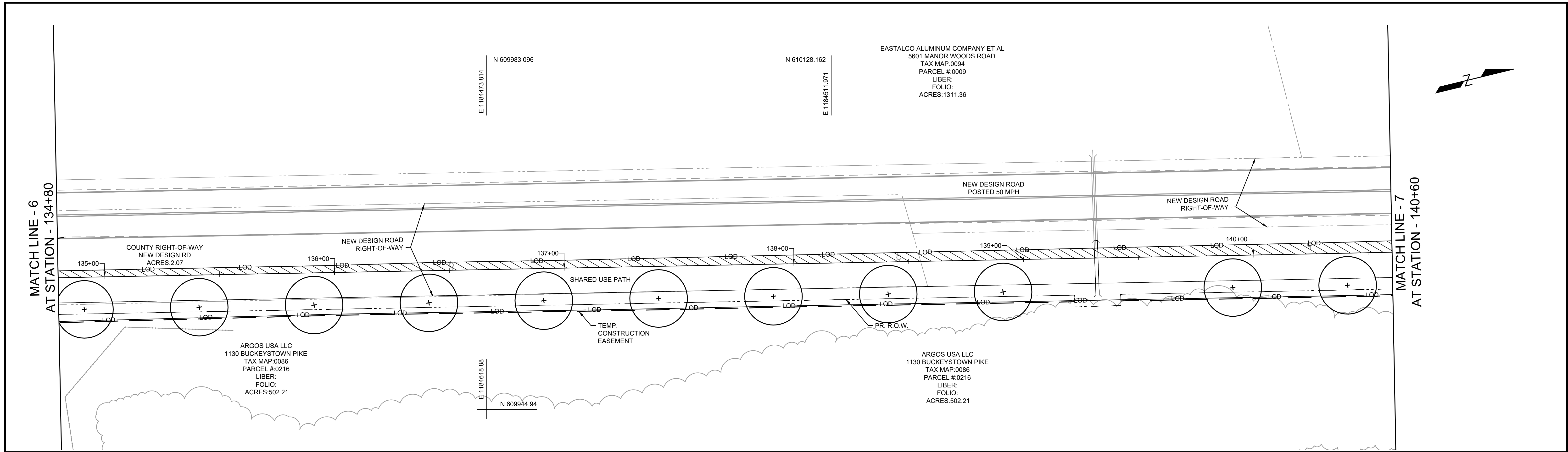
PROFESSIONAL CERTIFICATION		REUSE OF DOCUMENTS					TOOLE DESIGN		8484 GEORGIA AVENUE, SUITE 800 SILVER SPRING, MD 20910 PHONE: 301.927.1900 FAX: 301.927.2800 www.tooledesign.com		NEW DESIGN ROAD SIDE PATH PHASE 1 DIVISION OF PLANNING AND PERMITTING FREDERICK COUNTY, MD		30% DESIGN PLANS		PROJECT NO. 50730	
I HEREBY CERTIFY THAT THESE PLANS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF [STATE]. LICENSE NO. _____, EXPIRATION DATE: _____.		ALL DRAWINGS ARE INSTRUMENTS OF PROFESSIONAL SERVICE FOR THIS PROJECT. REUSE OR ALTERATION IS AT THE USER'S SOLE RISK.											LANDSCAPE, SIGNING AND PAVEMENT MARKING PLAN - 1		DATE 04/2020	
		JM													DRAWING NO.	
		VR													SHEET NO.	
		XXXX														32 of 48
RP		NO.	DATE	REVISION	BY	APVD										



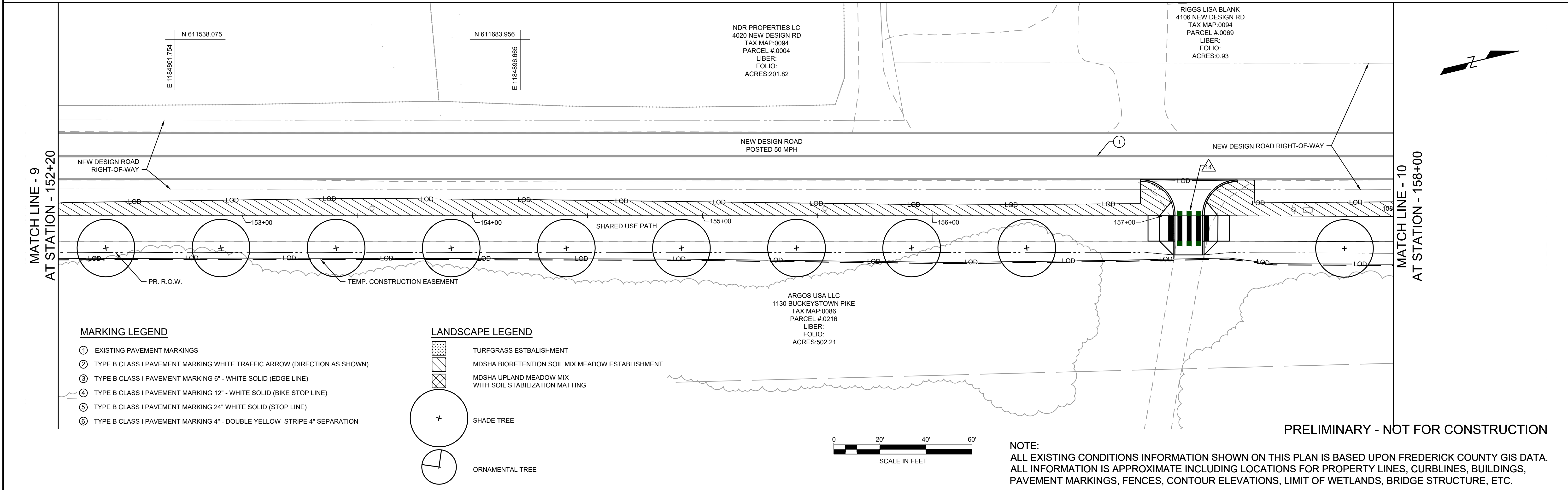
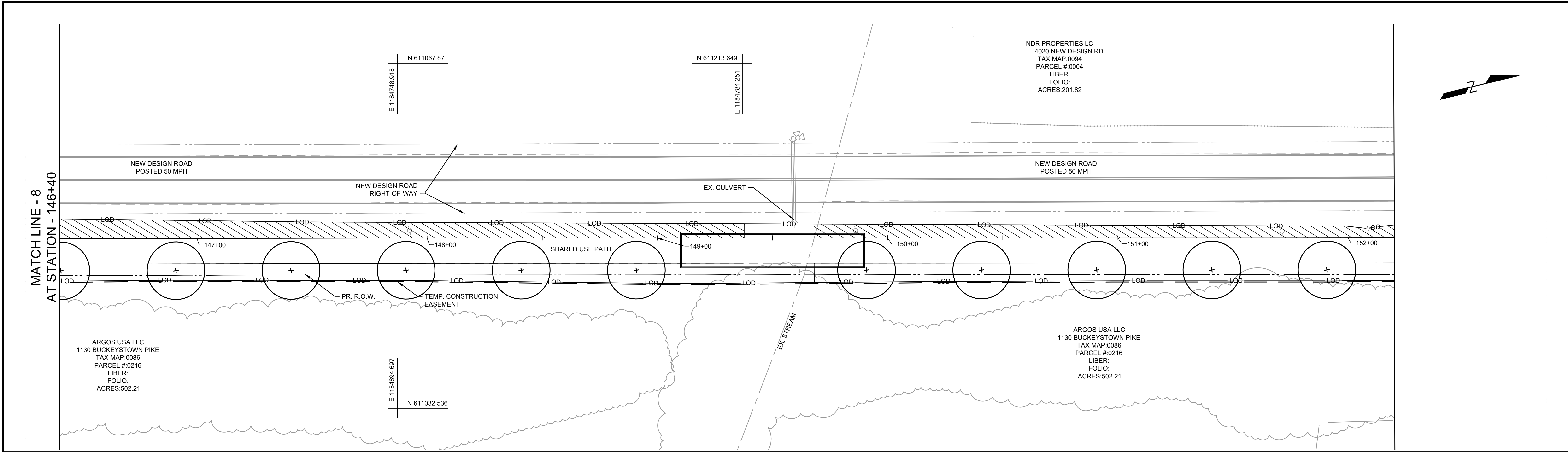
PROFESSIONAL CERTIFICATION		REUSE OF DOCUMENTS						<div>TOOLE DESIGN</div> <div>8484 GEORGIA AVENUE, SUITE 800 SILVER SPRING, MD 20910 PHONE: 301.927.1900 FAX: 301.927.2800 www.tooledesign.com</div>	NEW DESIGN ROAD SIDE PATH PHASE 1	DIVISION OF PLANNING AND PERMITTING FREDERICK COUNTY, MD	30% DESIGN PLANS		PROJECT NO.	50730
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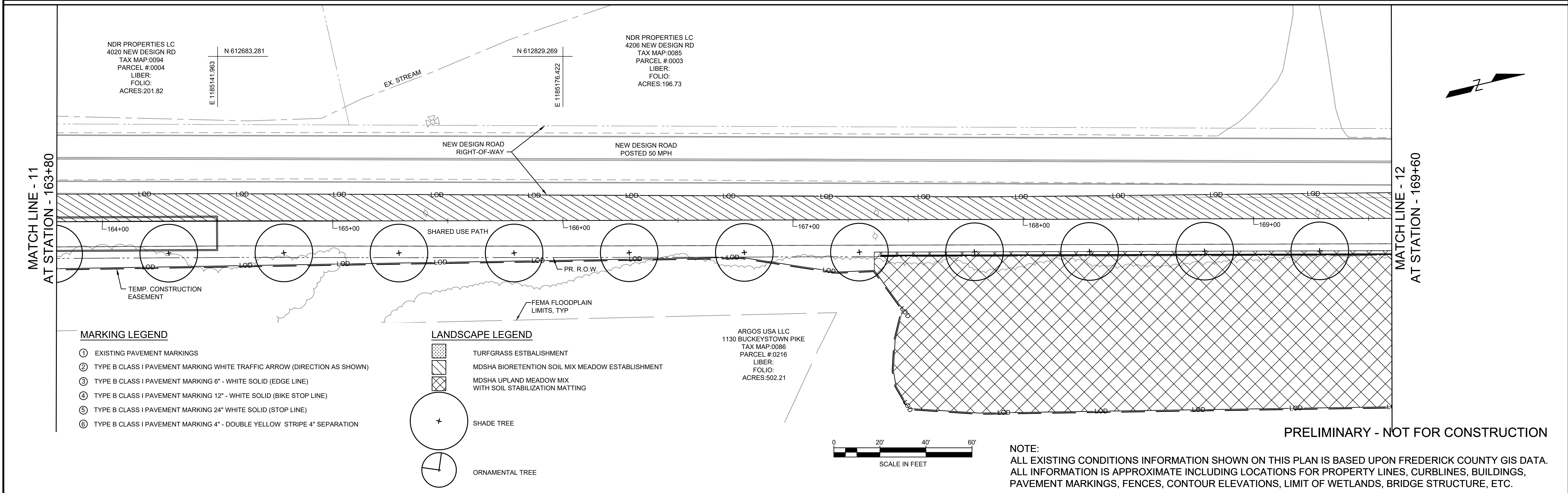
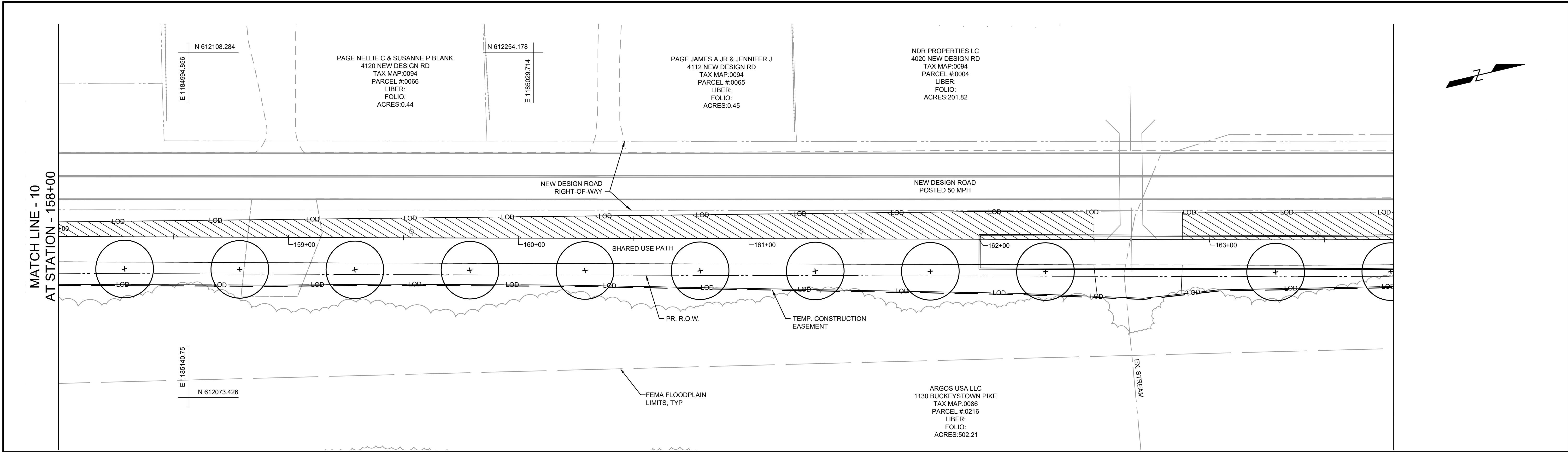
PROFESSIONAL CERTIFICATION		REUSE OF DOCUMENTS				NEW DESIGN ROAD SIDE PATH PHASE 1		30% DESIGN PLANS		PROJECT NO.	
I HEREBY CERTIFY THAT THESE PLANS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF [STATE]. LICENSE NO. _____ EXPIRATION DATE: _____		ALL DRAWINGS ARE INSTRUMENTS OF PROFESSIONAL SERVICE FOR THIS PROJECT. REUSE OR ALTERATION IS AT THE USER'S SOLE RISK.				DIVISION OF PLANNING AND PERMITTING FREDERICK COUNTY, MD		LANDSCAPE, SIGNING AND PAVEMENT MARKING PLAN - 3		50730	
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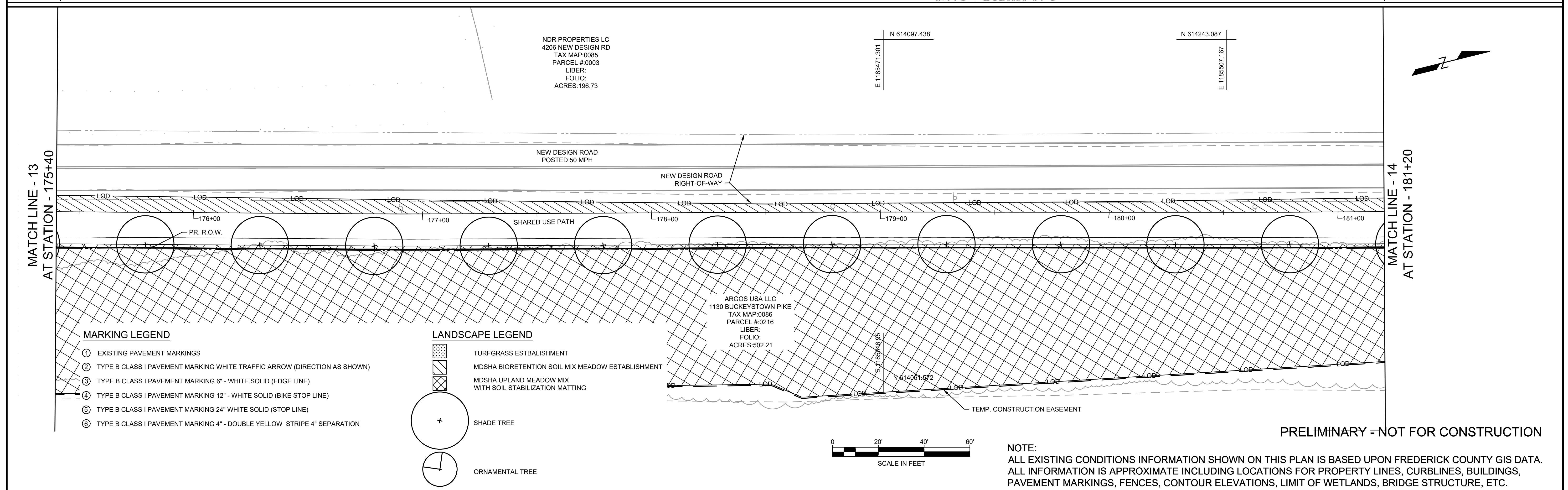
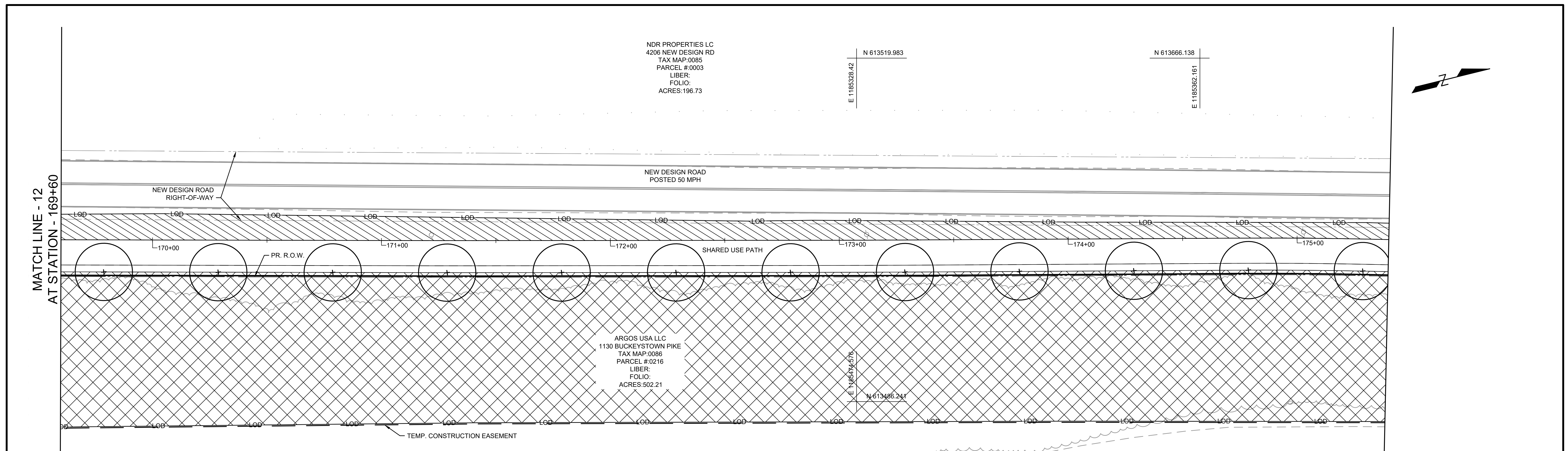
PROFESSIONAL CERTIFICATION	REUSE OF DOCUMENTS						<div>TOOLE DESIGN</div> <div>8484 GEORGIA AVENUE, SUITE 800 SILVER SPRING, MD 20910 PHONE: 301.927.1900 FAX: 301.927.2800 www.tooledesign.com</div>	NEW DESIGN ROAD SIDE PATH PHASE 1	DIVISION OF PLANNING AND PERMITTING FREDERICK COUNTY, MD	30% DESIGN PLANS		PROJECT NO.	50730
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	JM											DRAWING NO.	
	VR											SHEET NO.	
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	RP	NO.	DATE	REVISION	BY	APVD							



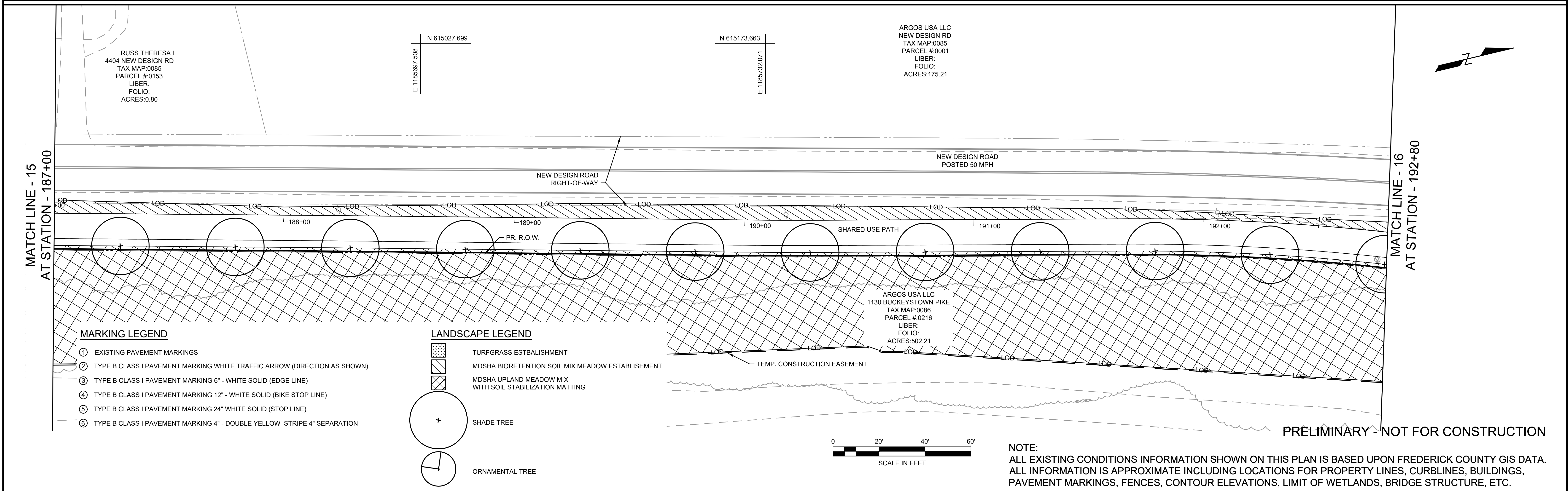
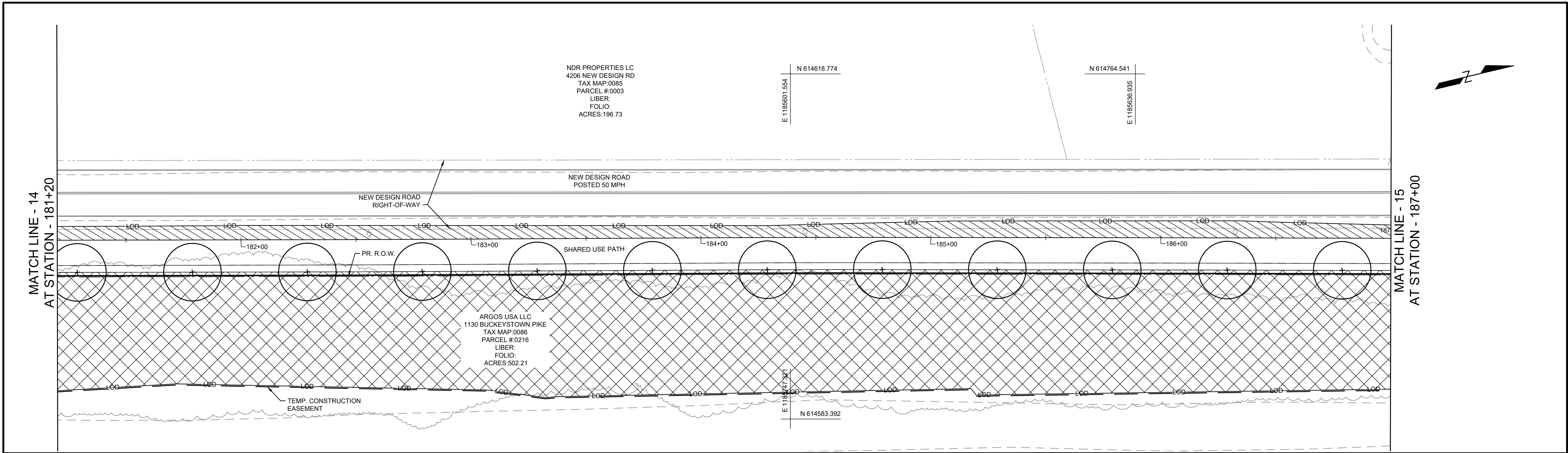
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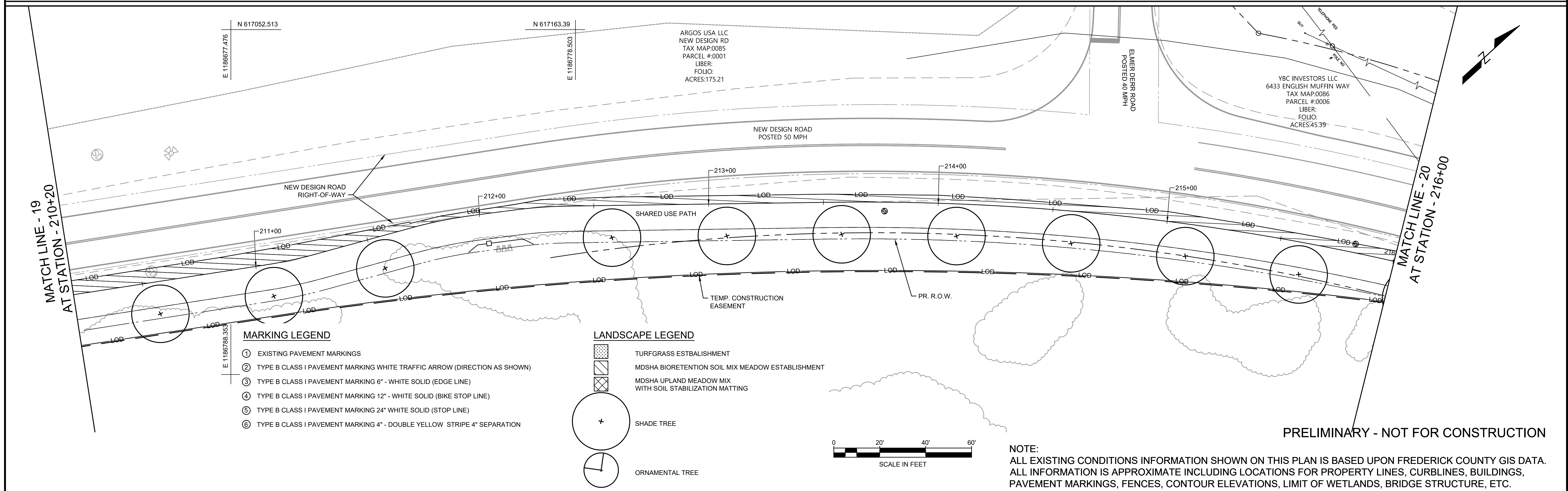
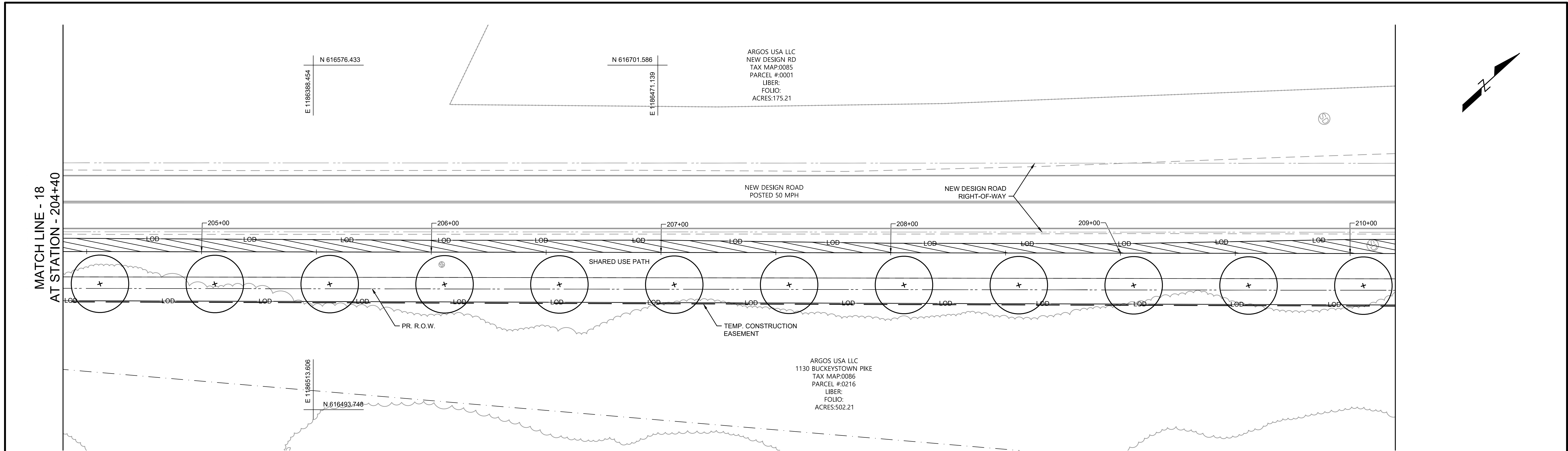
PROFESSIONAL CERTIFICATION	REUSE OF DOCUMENTS					<div>TOOLE DESIGN</div> <div>8484 GEORGIA AVENUE, SUITE 800 SILVER SPRING, MD 20910 PHONE: 301.927.1900 FAX: 301.927.2800 www.tooledesign.com</div>	NEW DESIGN ROAD SIDE PATH PHASE 1	DIVISION OF PLANNING AND PERMITTING FREDERICK COUNTY, MD	30% DESIGN PLANS		PROJECT NO.	50730
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	JM										DRAWING NO.	
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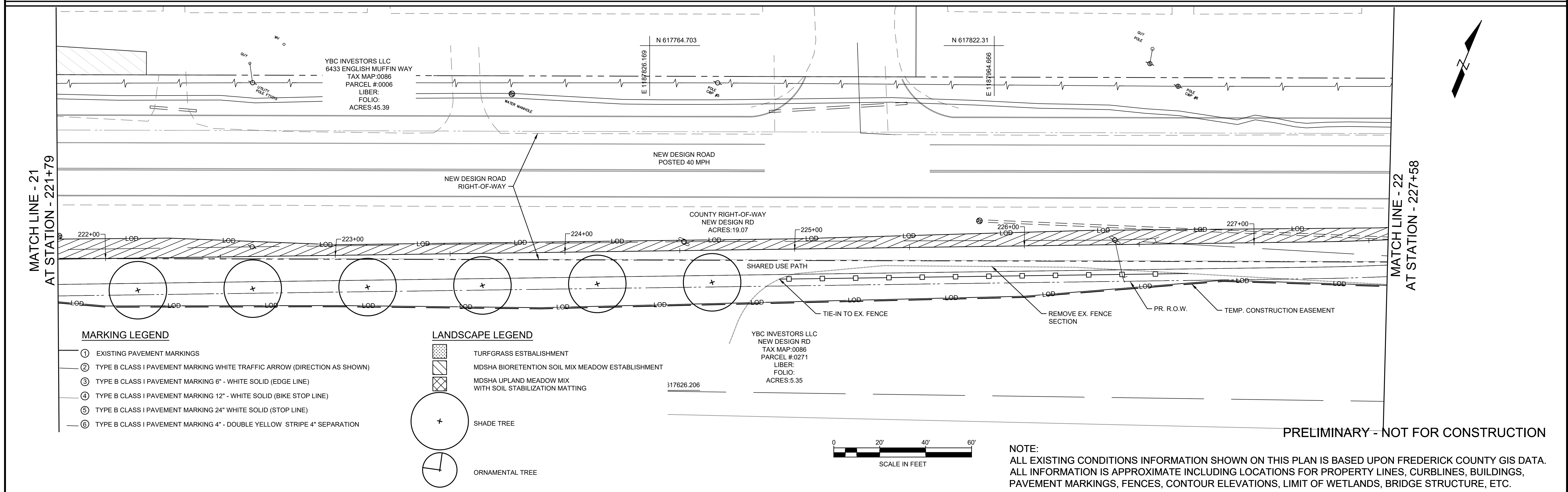
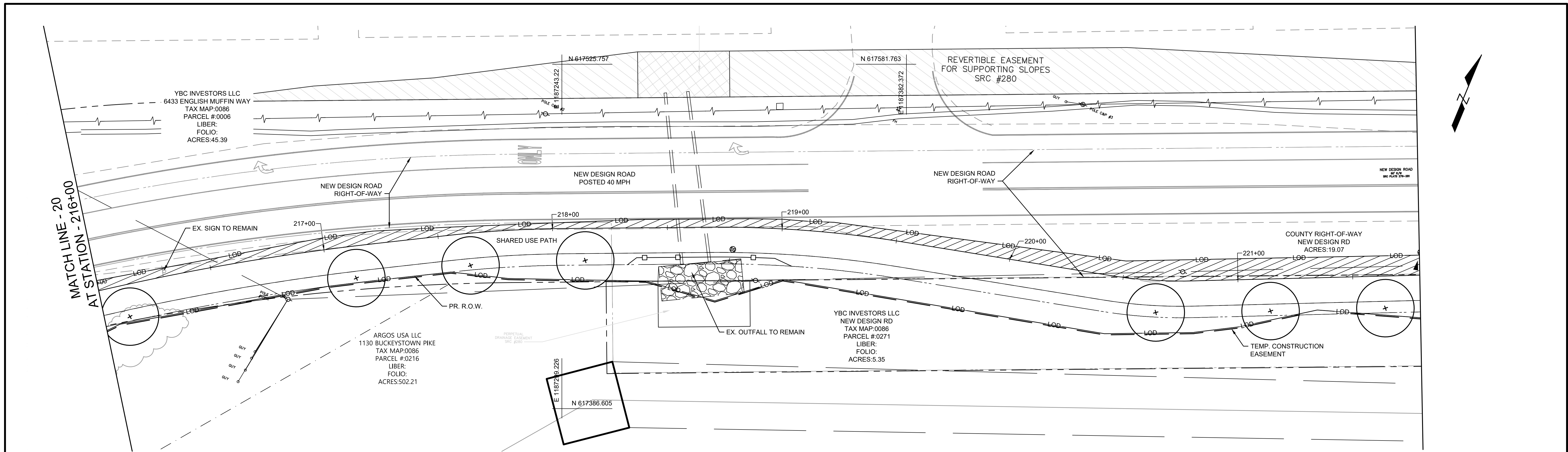
PROFESSIONAL CERTIFICATION	REUSE OF DOCUMENTS						TOOLE DESIGN	8484 GEORGIA AVENUE, SUITE 800 SILVER SPRING, MD 20910 PHONE: 301.927.1900 FAX: 301.927.2800 www.tooledesign.com	NEW DESIGN ROAD SIDE PATH PHASE 1	DIVISION OF PLANNING AND PERMITTING FREDERICK COUNTY, MD	30% DESIGN PLANS		PROJECT NO. 50730
	ALL DRAWINGS ARE INSTRUMENTS OF PROFESSIONAL SERVICE FOR THIS PROJECT. REUSE OR ALTERATION IS AT THE USER'S SOLE RISK.										DATE 04/2020		
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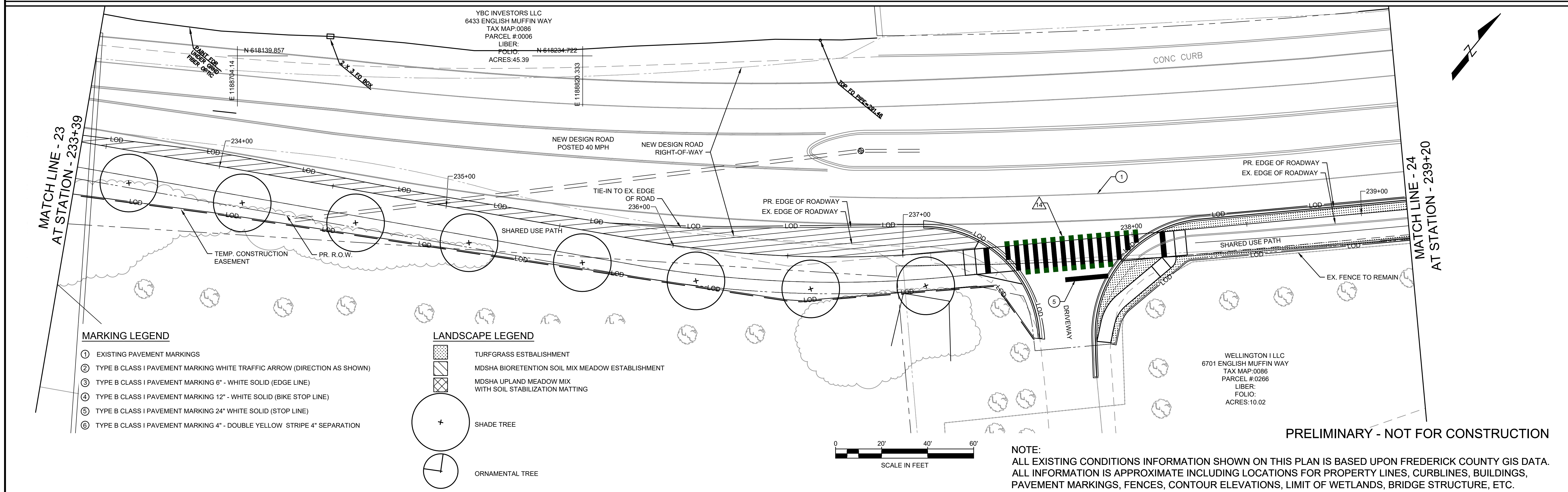
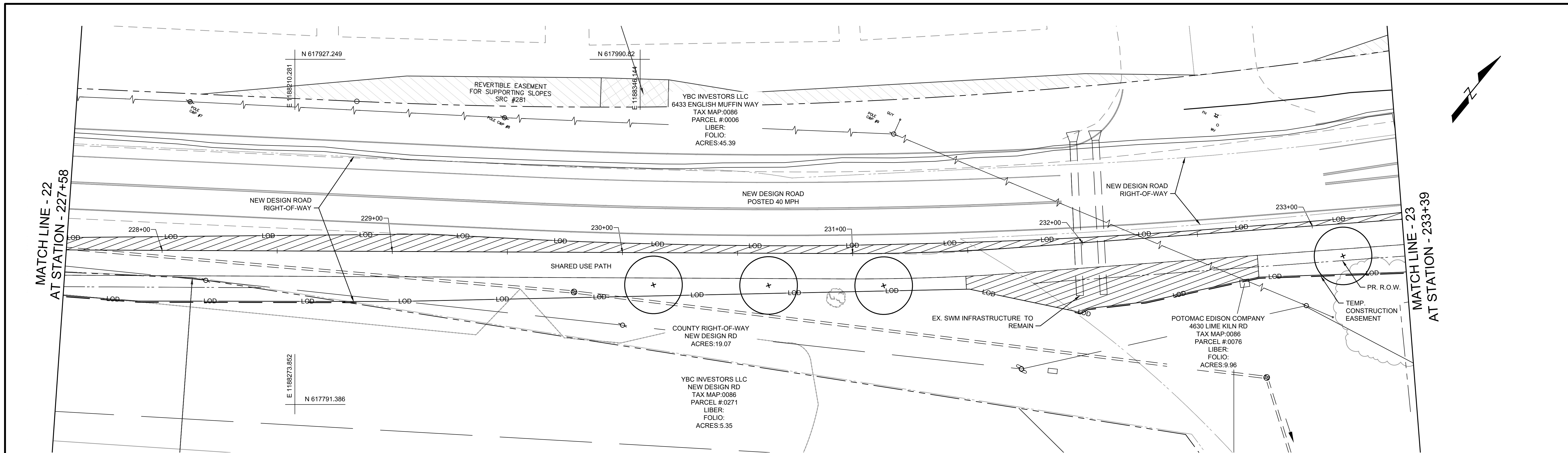
PROFESSIONAL CERTIFICATION		REUSE OF DOCUMENTS						<div>TOOLE DESIGN</div> <div>8484 GEORGIA AVENUE, SUITE 800 SILVER SPRING, MD 20910 PHONE: 301.927.1900 FAX: 301.927.2800 www.tooledesign.com</div>	NEW DESIGN ROAD SIDE PATH PHASE 1	DIVISION OF PLANNING AND PERMITTING FREDERICK COUNTY, MD	30% DESIGN PLANS		PROJECT NO.	50730
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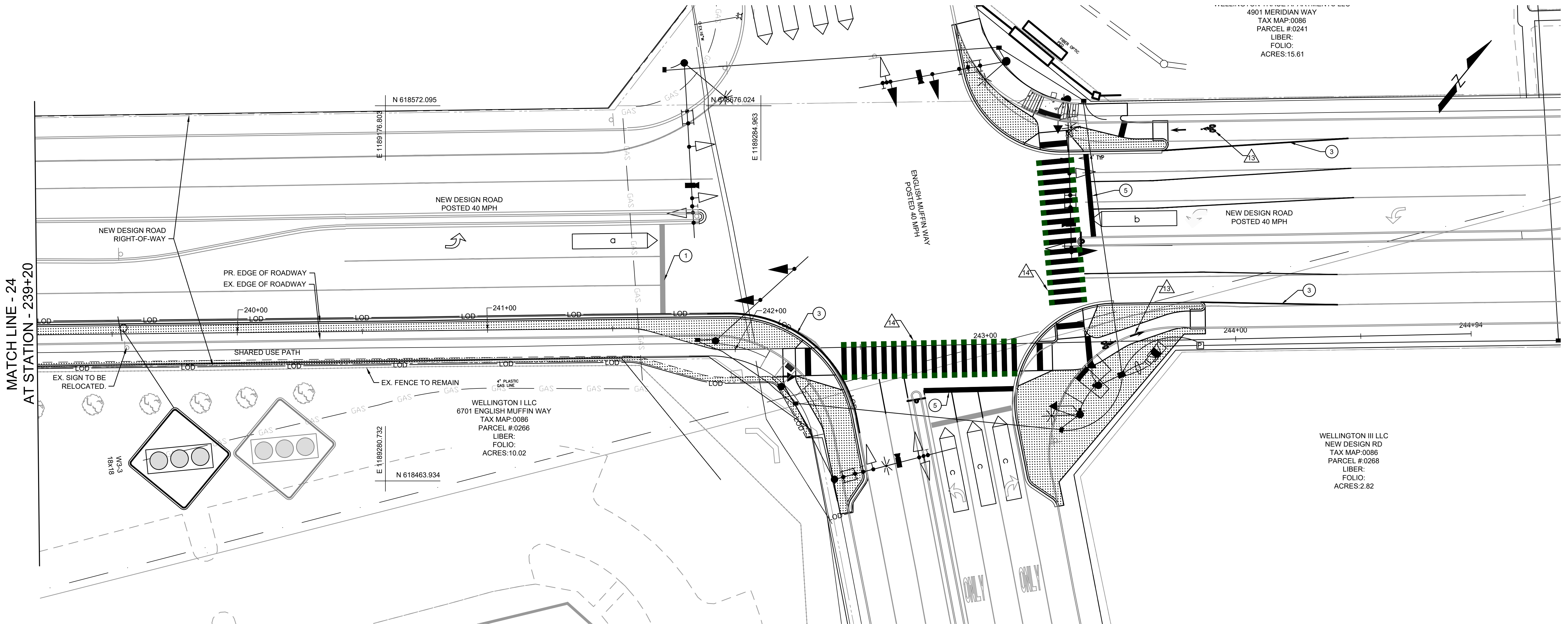
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PROFESSIONAL CERTIFICATION		REUSE OF DOCUMENTS				NEW DESIGN ROAD SIDE PATH PHASE 1		30% DESIGN PLANS		PROJECT NO.	
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		VR								04/2020	
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PROFESSIONAL CERTIFICATION		REUSE OF DOCUMENTS				NEW DESIGN ROAD SIDE PATH PHASE 1		30% DESIGN PLANS		PROJECT NO.	
I HEREBY CERTIFY THAT THESE PLANS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF [STATE]. LICENSE NO. _____ EXPIRATION DATE: _____		ALL DRAWINGS ARE INSTRUMENTS OF PROFESSIONAL SERVICE FOR THIS PROJECT. REUSE OR ALTERATION IS AT THE USER'S SOLE RISK.				DIVISION OF PLANNING AND PERMITTING FREDERICK COUNTY, MD		LANDSCAPE, SIGNING AND PAVEMENT MARKING PLAN - 12		50730	
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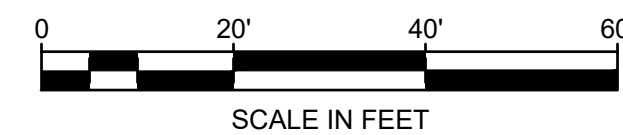


MARKING LEGEND

- ① EXISTING PAVEMENT MARKINGS
- ② TYPE B CLASS I PAVEMENT MARKING WHITE TRAFFIC ARROW (DIRECTION AS SHOWN)
- ③ TYPE B CLASS I PAVEMENT MARKING 6" - WHITE SOLID (EDGE LINE)
- ④ TYPE B CLASS I PAVEMENT MARKING 12" - WHITE SOLID (BIKE STOP LINE)
- ⑤ TYPE B CLASS I PAVEMENT MARKING 24" WHITE SOLID (STOP LINE)
- ⑥ TYPE B CLASS I PAVEMENT MARKING 4" - DOUBLE YELLOW STRIPE 4" SEPARATION

LANDSCAPE LEGEND

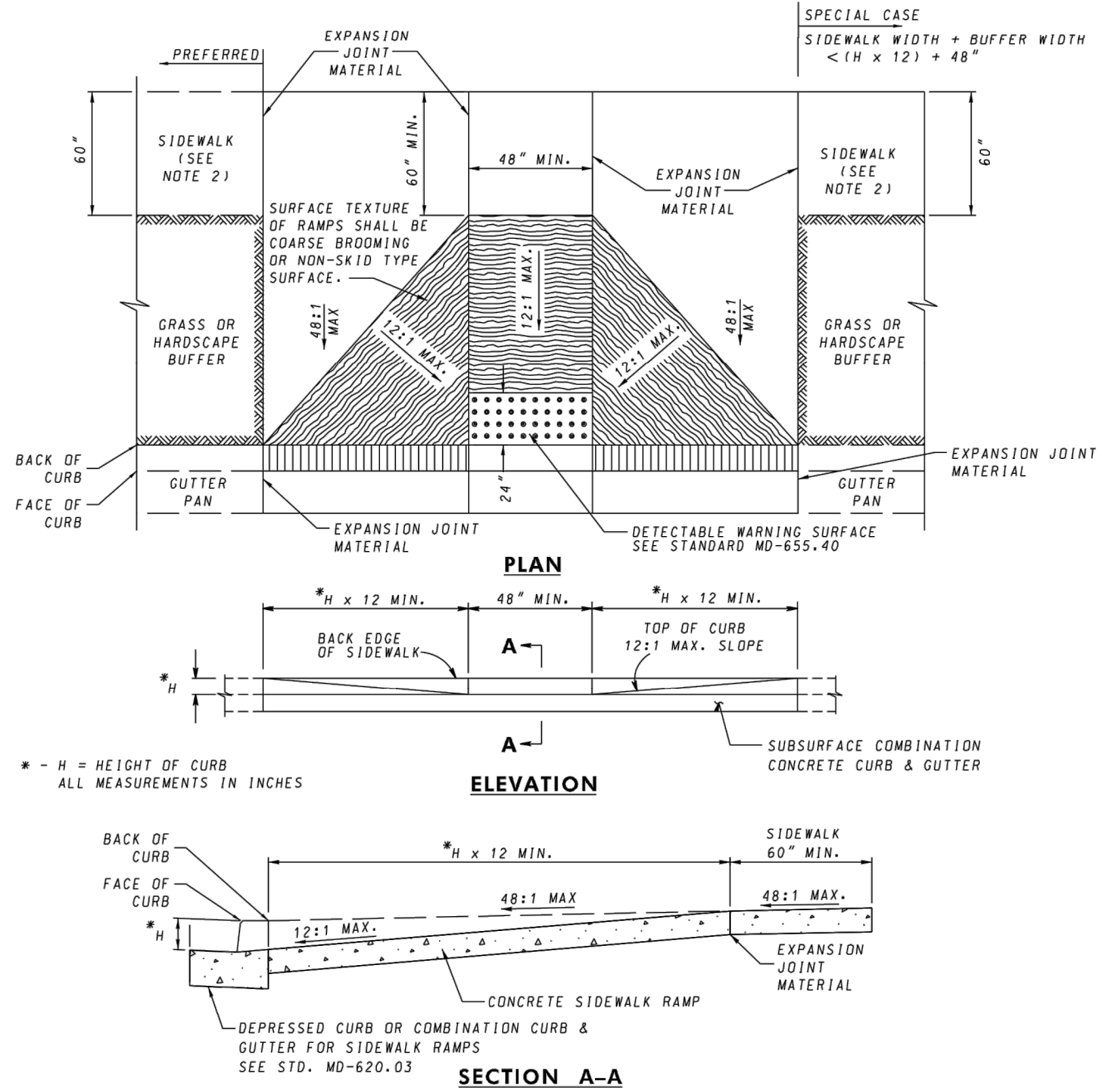
- TURFGRASS ESTBALISHMENT
- MDSHA BIORETENTION SOIL MIX MEADOW ESTABLISHMENT
- MDSHA UPLAND MEADOW MIX WITH SOIL STABILIZATION MATTING
- SHADE TREE
- ORNAMENTAL TREE



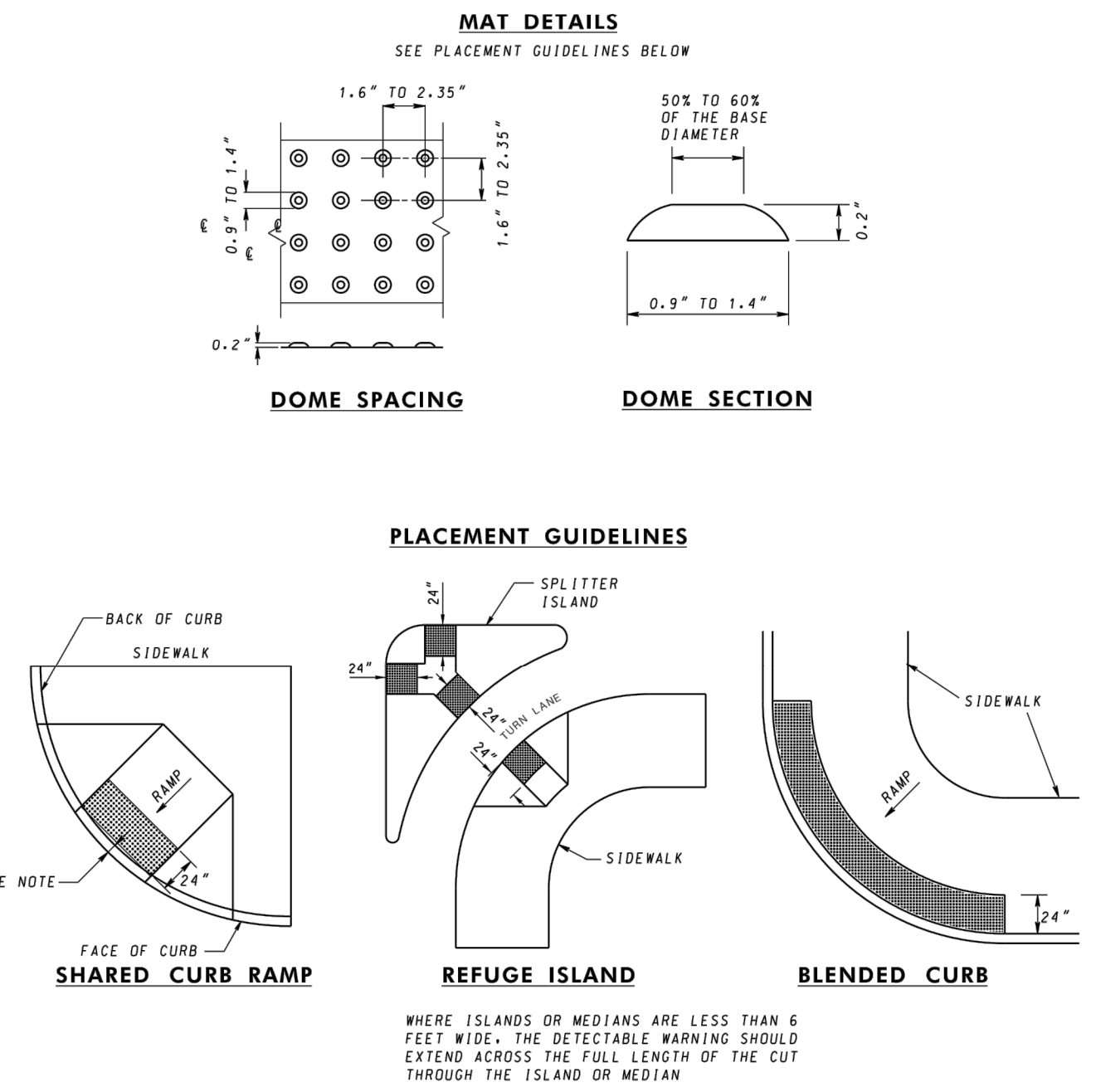
NOTE:
ALL EXISTING CONDITIONS INFORMATION SHOWN ON THIS PLAN IS BASED UPON FREDERICK COUNTY GIS DATA.
ALL INFORMATION IS APPROXIMATE INCLUDING LOCATIONS FOR PROPERTY LINES, CURBLINES, BUILDINGS,
PAVEMENT MARKINGS, FENCES, CONTOUR ELEVATIONS, LIMIT OF WETLANDS, BRIDGE STRUCTURE, ETC.

PRELIMINARY - NOT FOR CONSTRUCTION

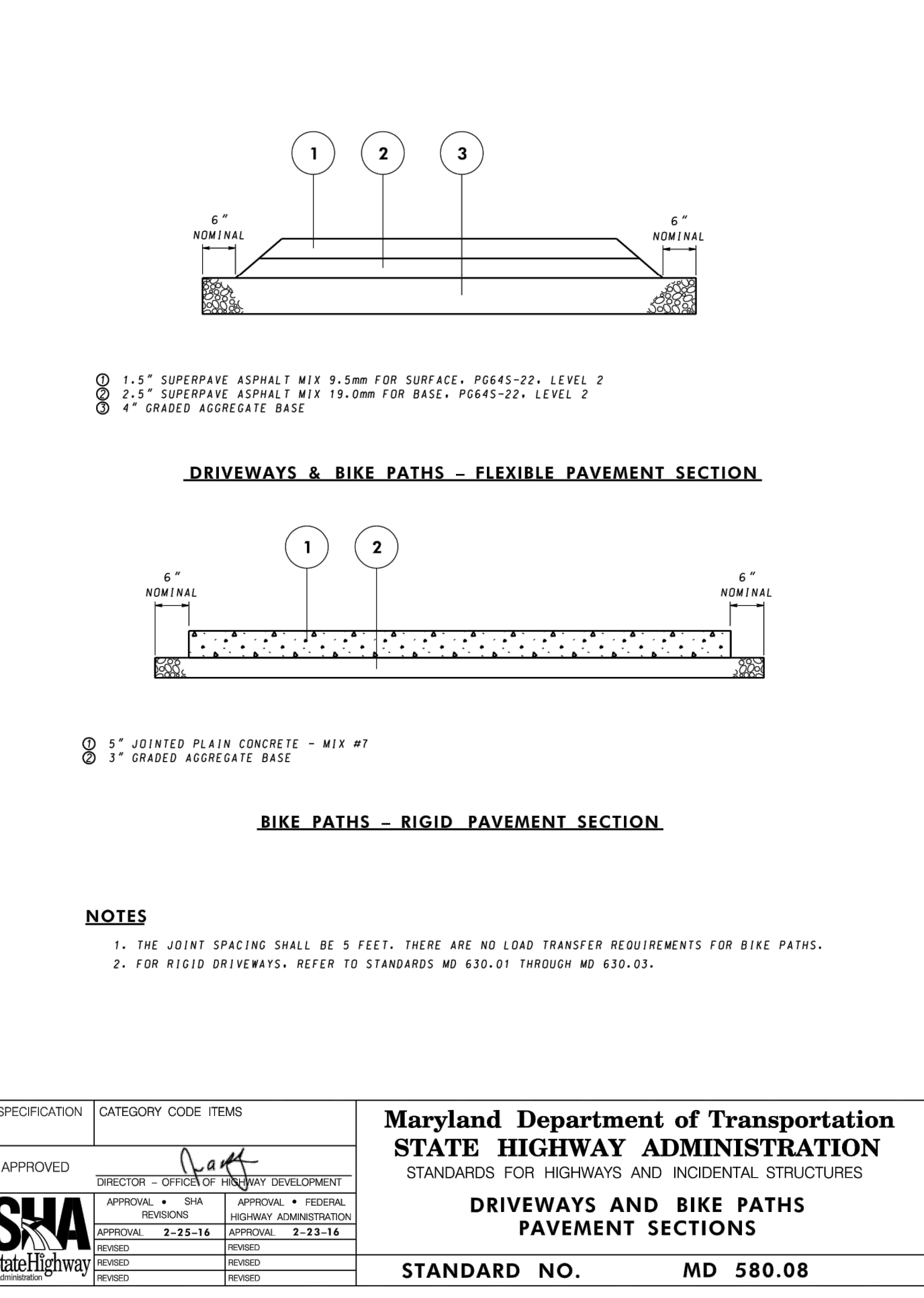
PROFESSIONAL CERTIFICATION		REUSE OF DOCUMENTS						<div><div>TOOLE</div><div>DESIGN</div></div> <div>8484 GEORGIA AVENUE, SUITE 800 SILVER SPRING, MD 20910 PHONE: 301.927.1900 FAX: 301.927.2800 www.tooledesign.com</div>		NEW DESIGN ROAD SIDE PATH PHASE 1		30% DESIGN PLANS		PROJECT NO.	
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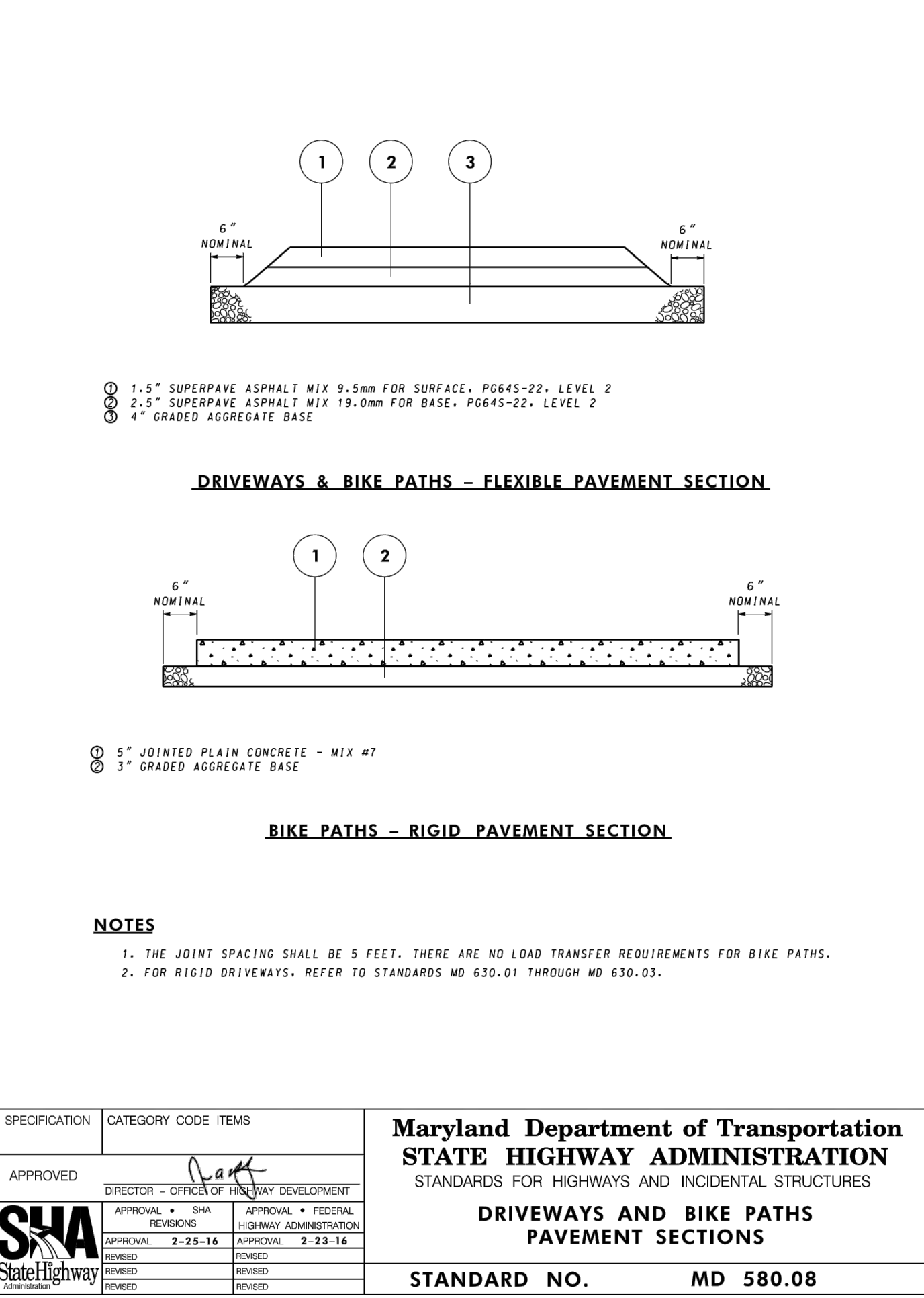
SPECIFICATION 603 & 611		CATEGORY CODE ITEMS	Maryland Department of Transportation STATE HIGHWAY ADMINISTRATION STANDARDS FOR HIGHWAYS AND INCIDENTAL STRUCTURES SIDEWALK RAMPS PERPENDICULAR STANDARD NO. MD 655.11	
APPROVED		DIRECTOR - OFFICE OF HIGHWAY DEVELOPMENT		
APPROVAL		SHAH		
APPROVAL		FEDERAL		
APPROVAL		2-10-04	APPROVAL	3-31-04
REVISION		3-23-08	REVISION	4-3-08
REVISION		6-23-16	REVISION	9-28-16



SPECIFICATION 611		CATEGORY CODE ITEMS	Maryland Department of Transportation STATE HIGHWAY ADMINISTRATION STANDARDS FOR HIGHWAYS AND INCIDENTAL STRUCTURES DETECTABLE WARNING SURFACES STANDARD NO. MD 655.40	
APPROVED		DIRECTOR - OFFICE OF HIGHWAY DEVELOPMENT		
APPROVAL		SHAH		
APPROVAL		FEDERAL		
APPROVAL		2-10-04	APPROVAL	3-31-04
REVISION		4-17-06	REVISION	4-3-08
REVISION			REVISION	



SPECIFICATION		CATEGORY CODE ITEMS	Maryland Department of Transportation STATE HIGHWAY ADMINISTRATION STANDARDS FOR HIGHWAYS AND INCIDENTAL STRUCTURES DRIVEWAYS AND BIKE PATHS PAVEMENT SECTIONS STANDARD NO. MD 580.08	
APPROVED		DIRECTOR - OFFICE OF HIGHWAY DEVELOPMENT		
APPROVAL		SHAH		
APPROVAL		FEDERAL		
APPROVAL		2-23-16	APPROVAL	2-23-16
REVISION			REVISION	
REVISION			REVISION	



SPECIFICATION		CATEGORY CODE ITEMS	Maryland Department of Transportation STATE HIGHWAY ADMINISTRATION STANDARDS FOR HIGHWAYS AND INCIDENTAL STRUCTURES DRIVEWAYS AND BIKE PATHS PAVEMENT SECTIONS STANDARD NO. MD 580.08	
APPROVED		DIRECTOR - OFFICE OF HIGHWAY DEVELOPMENT		
APPROVAL		SHAH		
APPROVAL		FEDERAL		
APPROVAL		2-23-16	APPROVAL	2-23-16
REVISION			REVISION	
REVISION			REVISION	

1 SIDEWALK RAMP
SCALE: N.T.S.

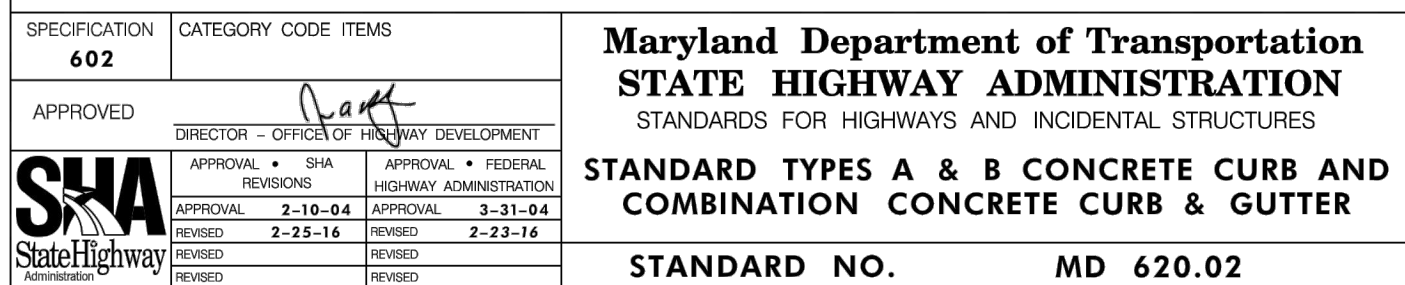
2 DETECTABLE WARNING SURFACE
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3 FLEXIBLE PAVEMENT SECTION
SCALE: N.T.S.

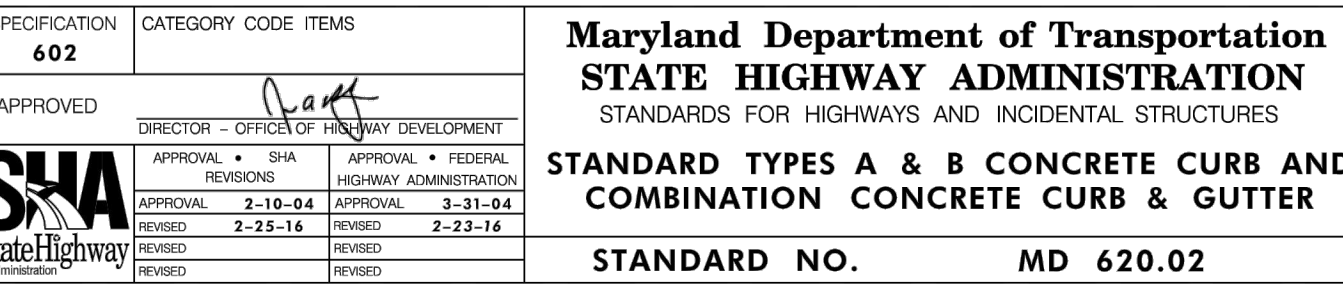
4 RIGID PAVEMENT SECTION
SCALE: N.T.S.

PRELIMINARY - NOT FOR CONSTRUCTION

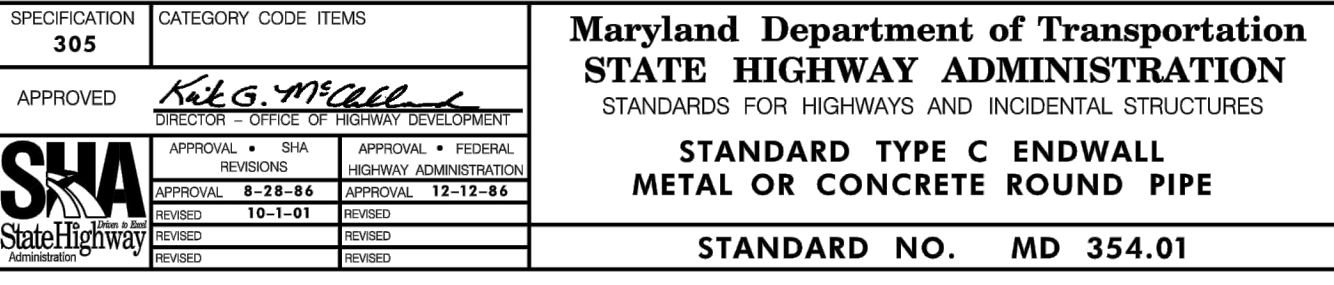
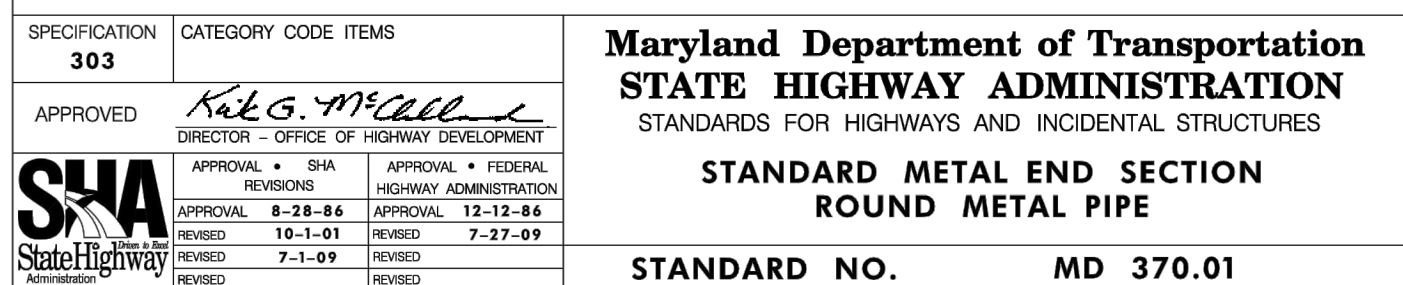
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	JM						CONSTRUCTION DETAILS - 1		DATE 04/2020
	VR								DRAWING NO.
	XXXX								SHEET NO. 45 of 48
	RP	NO.	DATE	REVISION	BY	APVD			



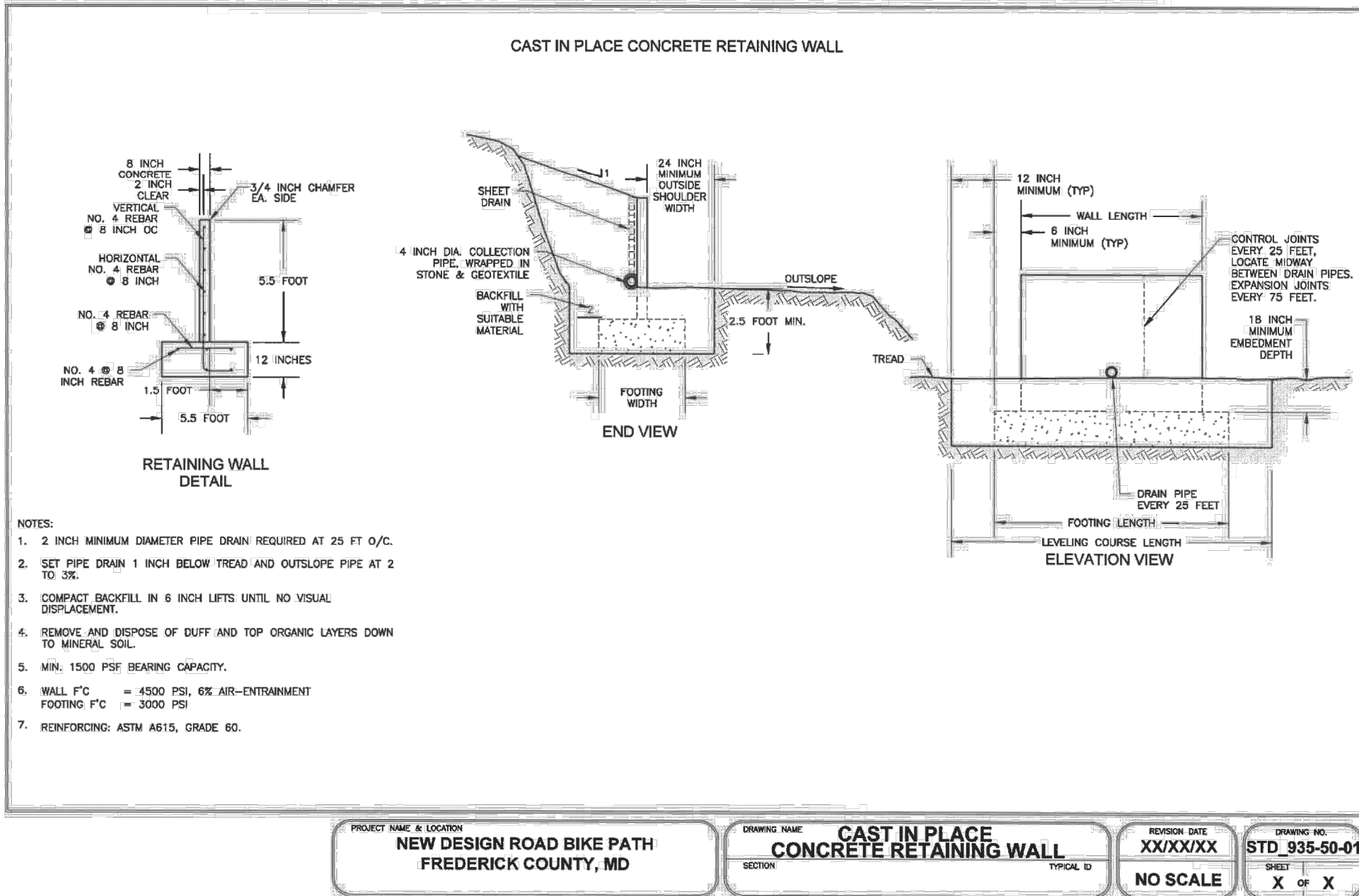
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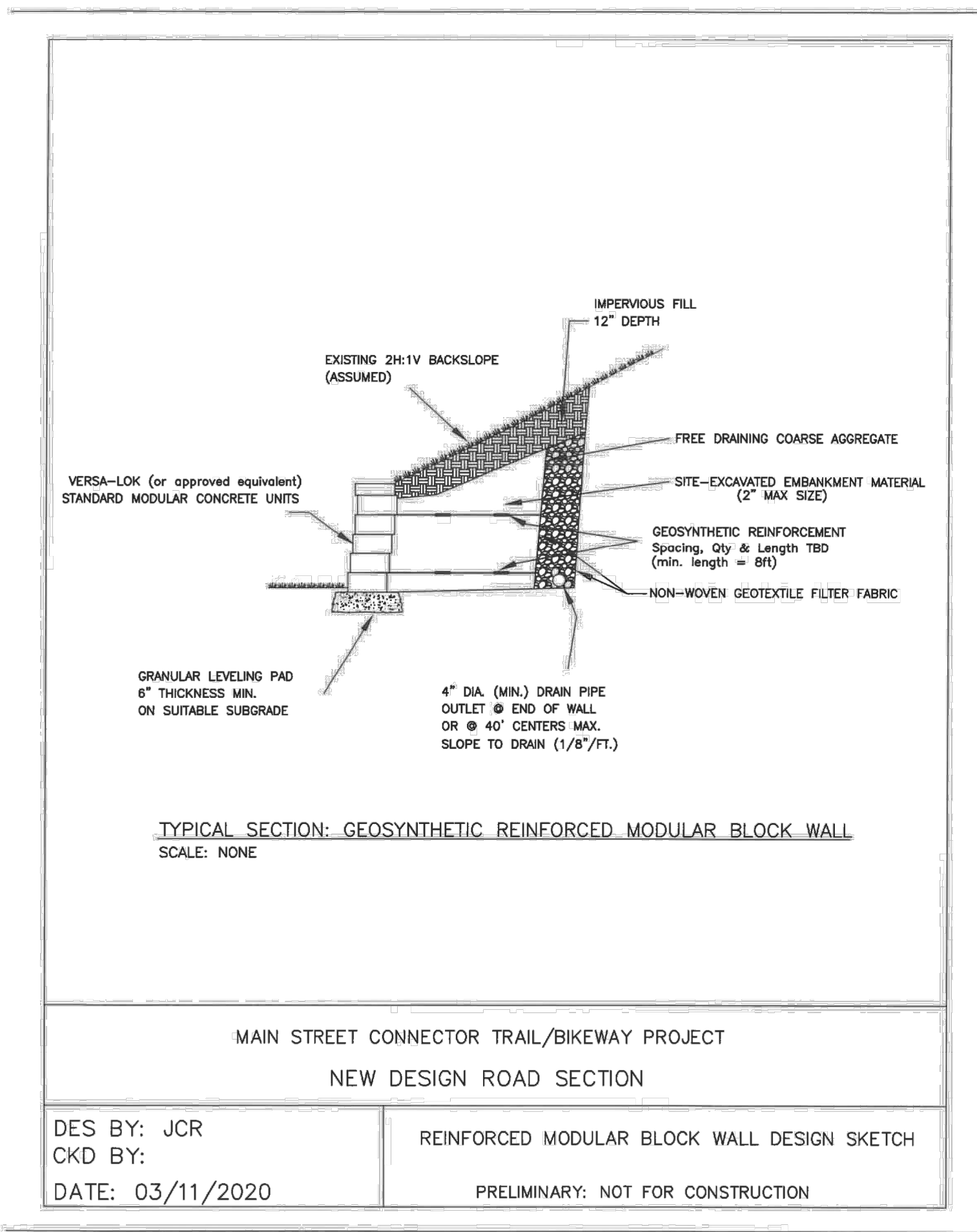
1 OF 2



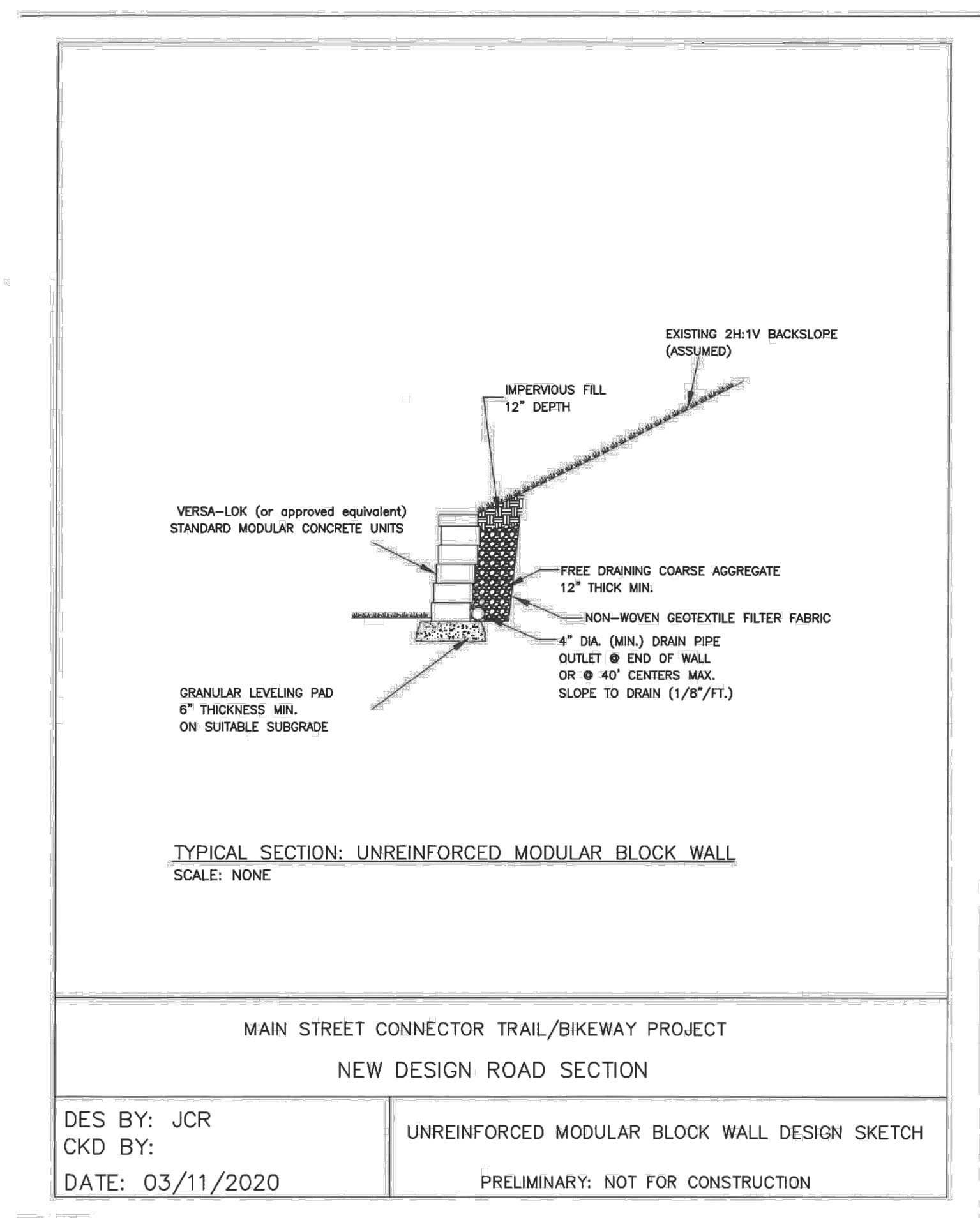
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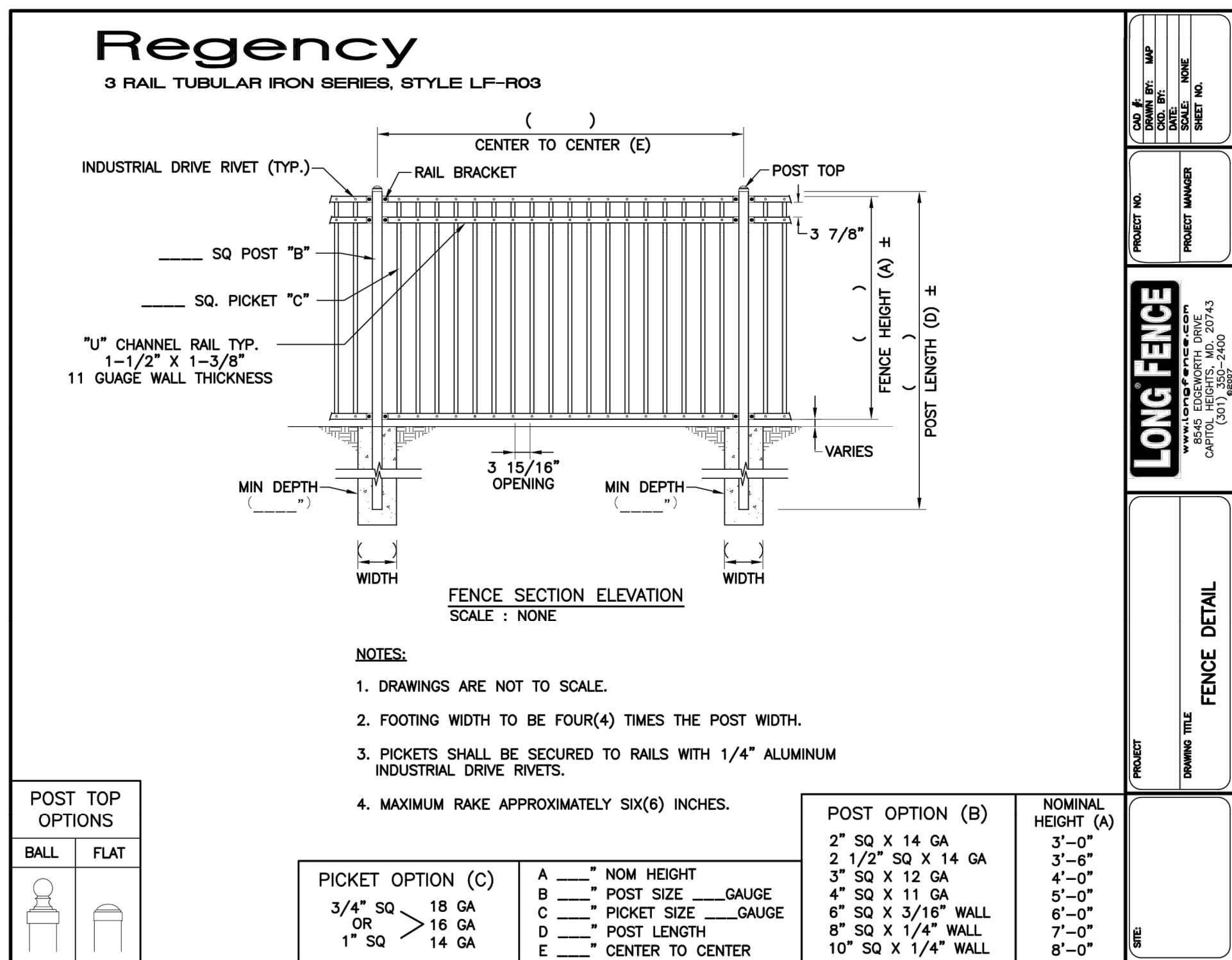
10 RETAINING WALL - OPTION A
SCALE: N.T.S.



10 RETAINING WALL - OPTION B
SCALE: N.T.S.



10 RETAINING WALL - OPTION C
SCALE: N.T.S.



NOTES:

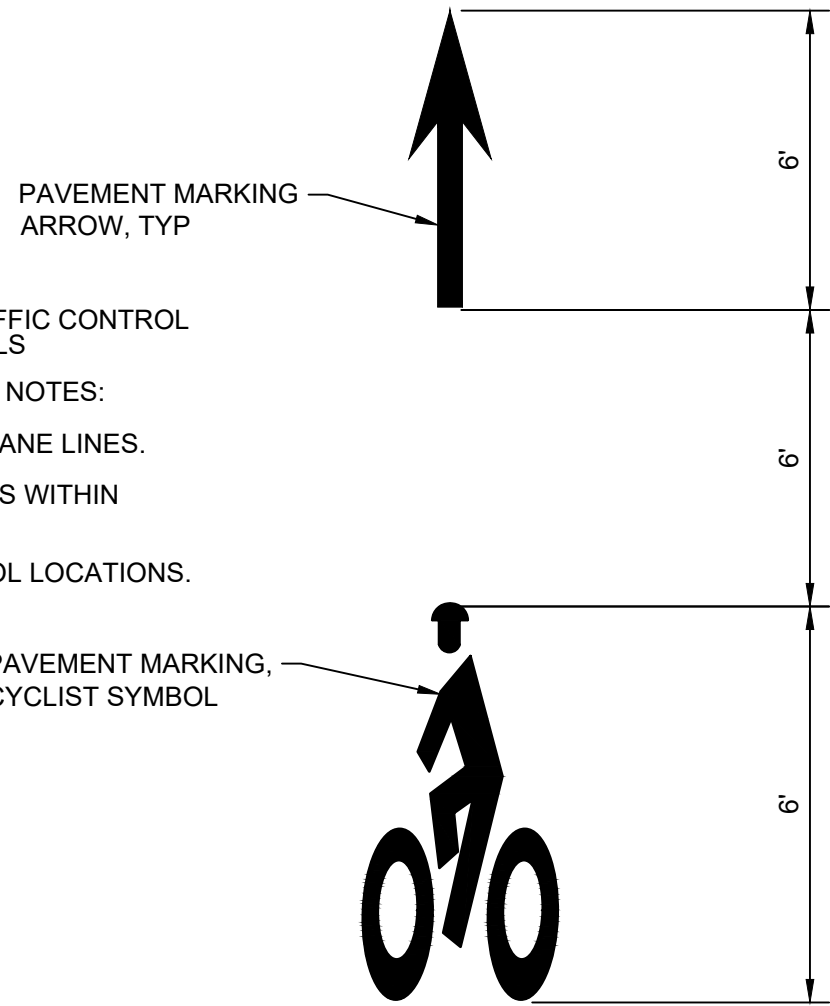
1. ERADICATE ALL EXISTING PAVEMENT MARKINGS IN CONFLICT WITH PROPOSED MARKINGS. ERADICATION SHALL BE PERFORMED USING WATER BLASTING OR OTHER NON-DESTRUCTIVE METHOD APPROVED BY THE ENGINEER.
2. ALL PROPOSED SIGNS SHALL BE INSTALLED SUCH THAT THEY DO NOT OBSTRUCT SIGHT LINES AT INTERSECTIONS OR PEDESTRIAN/BICYCLE CROSSINGS.
3. ALL W11-2 PEDESTRIAN CROSSING AND ADVANCE PEDESTRIAN CROSSING SIGNS AND SUPPLEMENTAL PLAQUES SHALL BE FLUORESCENT YELLOW-GREEN.
4. ALL NEW PAVEMENT MARKINGS AND SIGN LOCATIONS SHALL BE APPROVED AND/OR FIELD MARKED BY THE MD SHA TRAFFIC ENGINEERING DIVISION.

NOTE:

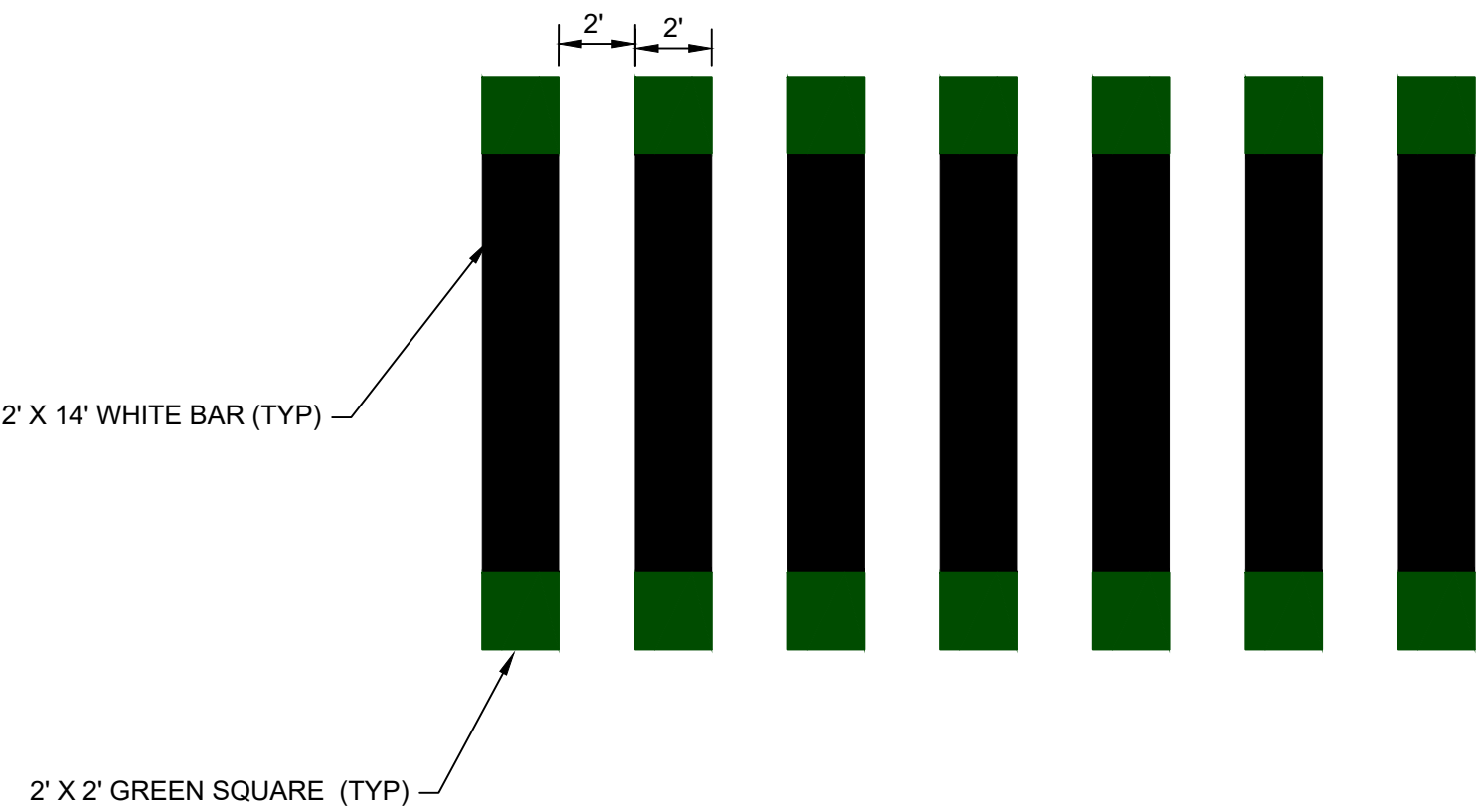
SEE THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD) FOR MORE DETAILS

BICYCLE LANE SYMBOL PLACEMENT NOTES:

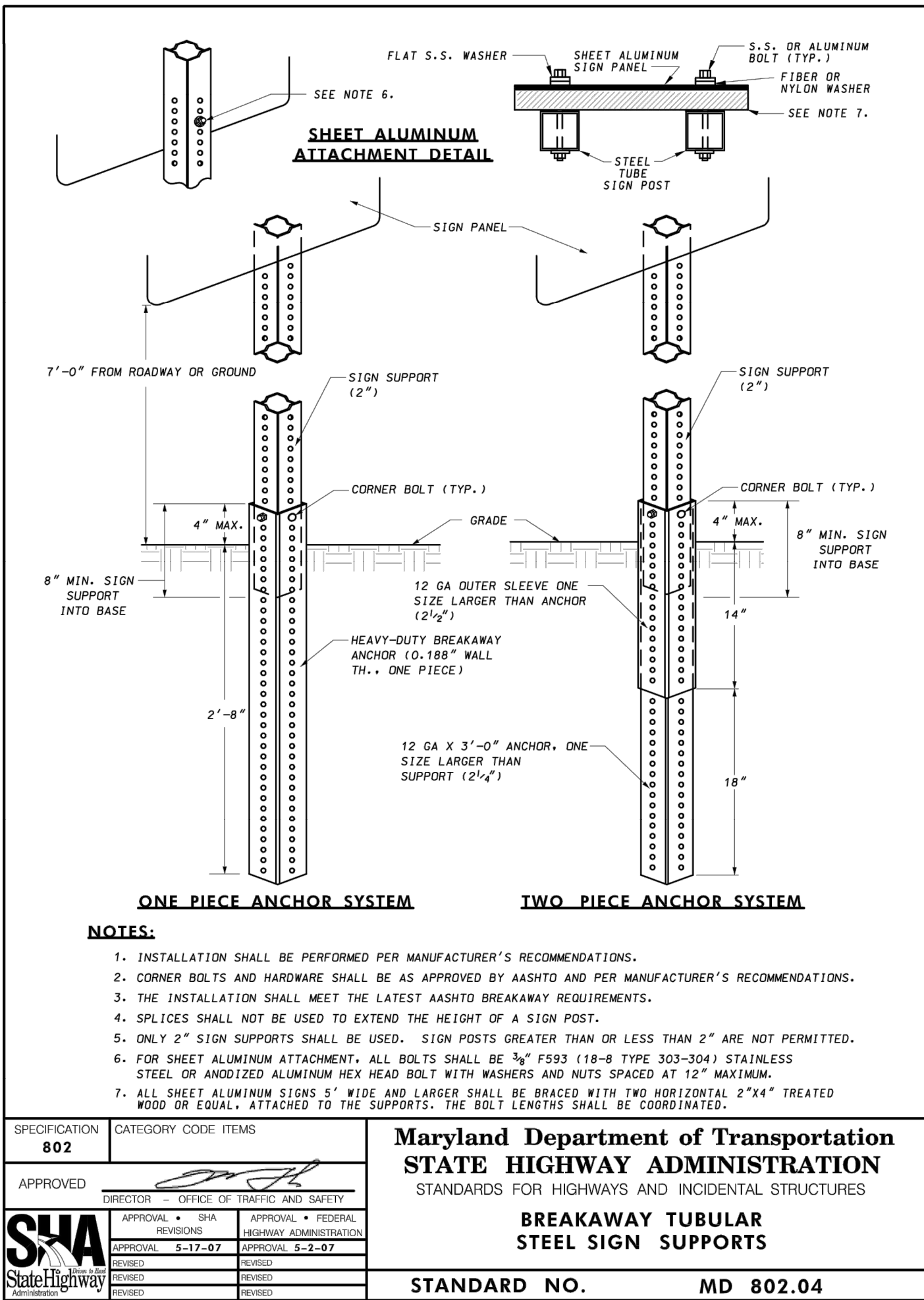
1. DO NOT PLACE SYMBOLS ON LANE LINES.
2. PLACE BICYCLE LANE SYMBOLS WITHIN CENTER OF BICYCLE LANE.
3. SEE PLAN SHEETS FOR SYMBOL LOCATIONS.



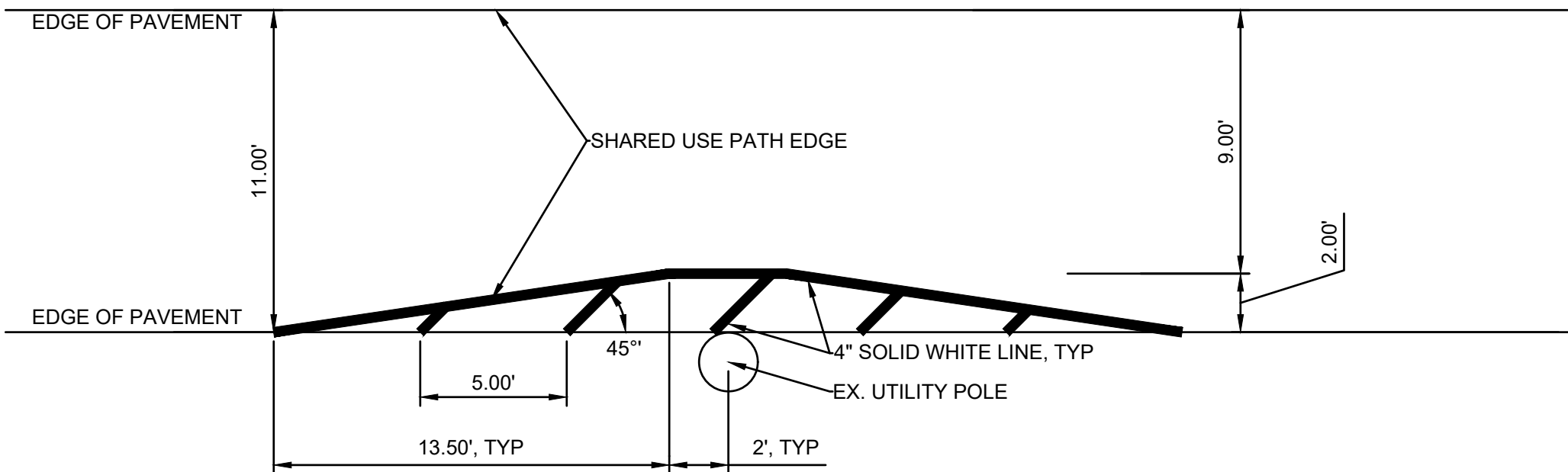
13 BICYCLE LANE SYMBOL
SCALE: N.T.S.



14 SHARED BIKE AND PEDESTRIAN CROSSING STRIPING
SCALE: N.T.S.



15 SIGN POST DETAIL
SCALE: N.T.S.



16 OBSTACLE AVOIDANCE MARKING
SCALE: N.T.S.

PRELIMINARY - NOT FOR CONSTRUCTION

PROFESSIONAL CERTIFICATION		REUSE OF DOCUMENTS							<div><div>TOOLE DESIGN</div><div>8484 GEORGIA AVENUE, SUITE 800 SILVER SPRING, MD 20910 PHONE: 301.927.1900 FAX: 301.927.2800 www.tooledesign.com</div></div>	NEW DESIGN ROAD SIDE PATH PHASE 1		30% DESIGN PLANS		PROJECT NO. 50730	
I HEREBY CERTIFY THAT THESE PLANS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF [STATE]. LICENSE NO. _____ EXPIRATION DATE: _____.		ALL DRAWINGS ARE INSTRUMENTS OF PROFESSIONAL SERVICE FOR THIS PROJECT. REUSE OR ALTERATION IS AT THE USER'S SOLE RISK.								DIVISION OF PLANNING AND PERMITTING FREDERICK COUNTY, MD		SIGNING AND PAVEMENT MARKING DETAILS		DATE 04/2020	
		JM												DRAWING NO.	
		VR													SHEET NO. 48 of 48
		XXXX													
		RP	NO.	DATE	REVISION			BY	APVD						