August 2023

MONTGOMERY COUNTY DEPARTMENT OF TRANSPORTATION

BOWIE MILL ROAD BIKEWAY

MUNCASTER MILL ROAD TO OLNEY LAYTONSVILLE ROAD

C. I. P. PROJECT NO. 509337

90% DESIGN SUBMISSION

INDEX OF SHEETS

SHT.NO.	DWG.NO.	SC/SWM NO.	DWG. DESCRIPTION
1	GN-01		TITLE SHEET
2	GN-02		ABBREVIATIONS AND SYMBOLS
3	GN-03		GENERAL NOTES
4 - 26	EX-01 TO EX-23		EXISTING CONDITIONS PLAN
27 - 38	GG-01 TO GG-12		GRADES AND GEOMETRICS
39 - 41	TS-01 TO TS-03		TYPICAL SECTIONS
42 - 64	PS-01 TO PS-23		ROADWAY PLAN
65 - 83	PR-01 TO PR-19		TRAIL PROFILES
84 - 93A	DT-01 TO DT-11		DRIVEWAY AND PEDESTRIAN RAMP DETAILS
94 - 100	DP-01 TO DP-07		DRAINAGE PROFILES
101 - 102	DS-01 TO DS-02		DRAINAGE SCHEDULES
103 - 105	DD-01 TO DD-03		DRAINAGE DETAILS
106 - 136	SC-01 TO SC-31	1 - 31	EROSION AND SEDIMENT CONTROL PLAN
137 - 163	SWM-01 TO SWM-27	32 - 58	STORMWATER MANAGEMENT
164 - 187	ST-01 TO ST-24		RETAINING WALL PLANS
188 - 204	BR-01 TO BR-17		PEDESTRIAN BRIDGE PLANS
205 - 229	SN-00 TO SN-24		SIGNING AND MARKING PLAN
230 - 252	LT-01 TO LT-23		LIGHTING PLAN
253 - 255	LT-24 TO LT-26		LIGHTING DETAILS
256 - 261	SG-01 TO SG-06		TRAFFIC SIGNAL PLANS
262 - 288	MT-00 TO MT-26		MAINTENANCE OF TRAFFIC
289 - 311	LS-01 TO LS-23	59 - 81	LANDSCAPE PLAN
312 - 313	LS-24 TO LS-25	82 - 83	LANDSCAPE NOTES AND DETAILS
314 - 336	UT-01 TO UT-23		UTILITY PLAN
337 - 393	XS-01 TO XS-57		CROSS SECTIONS

MONTGOMERY COUNTY DEPARTMENT OF TRANSPORTATION MAINTENANCE CERTIFICATION

I HEREBY CERTIFY THAT THE DEPARTMENT OF TRANSPORTATION WILL ASSUME MAINTENANCE RESPONSIBILITIES FOR ALL STORMWATER MANAGEMENT FACILITIES AS LISTED AND SHOWN, HEREON, IN ACCORDANCE WITH THE MEMORANDUM OF UNDERSTANDING BETWEEN THIS DEPARTMENT AND THE DEPARTMENT OF ENVIRONMENTAL PROTECTION DATED SEPTEMBER 1, 1986. IF, FOR ANY REASON, FUTURE IMPROVEMENTS TO THE ROADWAY ARE PLANNED THAT WOULD IMPACT ANY OF THE STORMWATER MANAGEMENT FACILITIES INCLUDED HEREIN, THIS DEPARTMENT WILL NOTIFY THE DEPARTMENT OF ENVIRONMENTAL PROTECTION DURING THE PLANNING OR EARLY DESIGN STAGE FOR SUCH IMPROVEMENTS.

DATE

JOSEPH MOGES
CHIEF, DIVISION OF
TRANSPORTATION ENGINEERING

OWNER'S CERTIFICATION

I HEREBY CERTIFY THAT ALL CLEARING, GRADING, CONSTRUCTION AND/OR DEVELOPMENT WILL BE DONE PURSUANT TO THIS PLAN AND THAT ANY RESPONSIBLE PERSONNEL INVOLVED IN THE CONSTRUCTION PROJECT WILL HAVE A CERTIFICATE OF ATTENDANCE AT A DEPARTMENT OF NATURAL RESOURCES APPROVED TRAINING PROGRAM FOR THE CONTROL OF SEDIMENT AND EROSION BEFORE BEGINNING THE PROJECT.

DATE

JOSEPH MOGES
CHIEF, DIVISION OF
TRANSPORTATION ENGINEERING

DESIGN CERTIFICATION

I HEREBY CERTIFY THAT THIS PLAN HAS BEEN PREPARED IN ACCORDANCE WITH THE "2011 MARYLAND STANDARDS AND SPECIFICATION FOR SOIL EROSION AND SEDIMENT CONTROL," MONTGOMERY COUNTY DEPARTMENT OF PERMITTING SERVICES EXECUTIVE REGULATIONS 5-90, 7-02AM AND 36-90, AND MONTGOMERY COUNTY DEPARTMENT OF PUBLIC WORKS AND TRANSPORTATION "STORM DRAIN CRITERIA" DATED AUGUST, 1988.

DATE

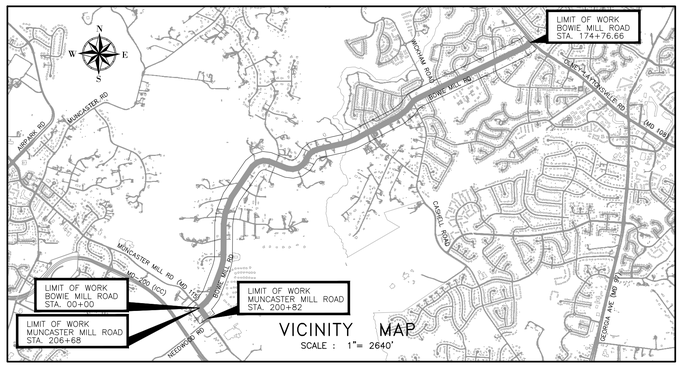
MICHAEL ROTHENHEBER, P.E.
MD. REGISTRATION NO. 18589

CERTIFICATION OF THE QUANTITIES

I HEREBY CERTIFY THAT THE ESTIMATED TOTAL AMOUNT OF EXCAVATION AND FILL AS SHOWN ON THESE PLANS HAS BEEN COMPUTED TO BE 10,261 CUBIC YARDS OF EXCAVATION, 10,542 CUBIC YARDS OF FILL AND THE TOTAL AREA TO BE DISTURBED AS SHOWN ON THESE PLANS HAS BEEN DETERMINED TO BE 577,832 SQUARE FEET OR 13.27 ACRES.

DATE

MICHAEL ROTHENHEBER, P.E.
MD. REGISTRATION NO. 18589



PROFESSIONAL CERTIFICATION

I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND.
LICENSE NO. 18589 EXPIRATION DATE 02/10/2026

DATE

MICHAEL ROTHENHEBER, P.E.
MD. REGISTRATION NO. 18589

DEPARTMENT OF TRANSPORTATION
DIVISION OF TRAFFIC ENGINEER AND OPERATIONS
MONTGOMERY COUNTY, MD

APPROVED

For	MAINTENANCE OF TRAFFIC
BY	
DATE:	

DEPARTMENT OF TRANSPORTATION
DIVISION OF TRAFFIC ENGINEER AND OPERATIONS
MONTGOMERY COUNTY, MD

APPROVED

For	SIGNING AND MARKING
BY	
DATE:	

ATTENTION

THIS SITE IS WITHIN THE ENVIRONMENTALLY SENSITIVE

UPPER ROCK CREEK SPECIAL PROTECTION AREA

TO HELP PROTECT THE DELICATE AQUATIC HABITAT
FROM THE IMPACTS OF LAND DEVELOPMENT
THESE PLANS MUST BE STRICTLY ADHERED TO

IF THERE IS A PROBLEM, CALL

_____ AT _____

AND THE MCDPS STAFF MEMBER WILL ASSIST YOU
IN DEVELOPING A SOLUTION BEFORE STREAM IMPACTS OCCUR

(MENTION THAT THE SITE IS WITHIN A SPECIAL PROTECTION AREA WHEN YOU CALL)

"LET'S WORK TOGETHER TO KEEP IT CLEAN"

ACKNOWLEDGED _____
OWNER/DEVELOPER

RELATED REQUIRED PERMITS

To be completed by the consultant and placed on the first sheet of the Sediment Control / Stormwater Management plan set for all projects.

IT IS THE RESPONSIBILITY OF THE PERMITTEE/OWNER OF THIS SITE TO OBTAIN ALL REQUIRED PERMITS PRIOR TO ISSUANCE OF THE SEDIMENT CONTROL PERMIT

TYPE OF PERMIT	REQD	NOT REQD	PERMIT #	EXPIRATION DATE	WORK RESTRICTION DATES
MCDPS Floodplain District	X				
WATERWAYS/WETLAND(S):					
a. Corps of Engineers	X				
b. MDE	X				
c. MDE Water Quality Certification		X			
MDE Dam Safety		X			
MSCD Small Pond Approval		X			
* DPS Roadside Trees Protection Plan		X		Approval Date	
**N.P.D.E.S. NOTICE OF INTENT	X				
FEMA LOMR (Required Post Construction)		X			
OTHERS (Please List):					
M-NCPPC Parks Construction Permit	X				
MDOT SHA Access Permit	X				

*A copy of the approved Roadside Trees Protection Plan must be delivered to the Sediment Control Inspector at the Preconstruction Meeting.

**When a Notice of Intent is required, the sediment control permit may not be issued until confirmation of authorization under the MDE's 20-CP permit has been submitted to DPS.

FOR SEDIMENT CONTROL APPLICATIONS AS OF APRIL 30, 2024

TREE CANOPY REQUIREMENTS TABLE

To be completed by the consultant and placed on the first sheet of the Sediment Control / Stormwater Management plan set for all projects. A fee in lieu of planting will be charged for any required canopy trees that are not planted.

Exempt: Yes ☐ No ☒ If exempt under Section 55-5 of the Code, please check the applicable exemption category below.

Total Property Area	Total Disturbed Area
N/A square feet	577,832 square feet

Shade Trees Required	Shade Trees Proposed to be Planted
217	50

Number of Trees Requiring Payment of a Fee in Lieu
(Trees Required – Trees Planted)

167 Trees

Required Number of Shade Trees

Area (sq. ft.) of the Limits of Disturbance		Number of Shade Trees Required
FROM	TO	
1	6,000	3
6,001	8,000	6
8,001	12,000	9
12,001	14,000	12
14,001	40,000	15

If the square footage of the limits of disturbance is more than 40,000, then the number of shade trees required must be calculated using the following formula:

(Number of Square Feet in Limits of Disturbance ÷ 40,000) × 15

EXEMPTION CATEGORIES
CHECK AS APPLICABLE

☐ 55-5(a) any activity that is subject to Article II of Chapter 22A;
☐ 55-5(b) any commercial logging or timber harvesting operation with an approved exemption from Article II of Chapter 22A;
☐ 55-5(f) any activity conducted by the County Parks Department;
☐ 55-5(g) routine or emergency maintenance of an existing stormwater management facility, including an existing access road, if the person performing the maintenance has obtained all required permits;
☐ 55-5(h) any stream restoration project if the person performing the work has obtained all necessary permits;
☐ 55-5(i) cutting or clearing any tree to comply with applicable provisions of any federal, state, or local law governing safety of dams;
☐ OTHER: Specify per Section 55-5 of the Code. _____

OWNER/ADDRESS:
MONTGOMERY COUNTY DEPARTMENT
OF TRANSPORTATION
100 EDISON PARK DRIVE, 4TH FLOOR
GAITHERSBURG, MD 20878
CONTACT:
JEAN KAPUSNICK, P.E.
PROJECT MANAGER
DESIGN SECTION
DIVISION OF TRANSPORTATION ENGINEERING
240-777-7240
Jean.Kapusnick@MontgomeryCountyMD.gov

90% DESIGN
NOT FOR CONSTRUCTION

NO.	REVISION	DATE	BY

MONTGOMERY COUNTY
DEPARTMENT OF TRANSPORTATION
GAITHERSBURG, MARYLAND

RECOMMENDED FOR APPROVAL

Chief, Design Section — Date

APPROVED

Chief, Division of Transportation Engineering — Date

Designed by: ADH Drawn by: TMB Checked by: JJR

GN-01
TITLE SHEET
BOWIE MILL ROAD
BIKEWAY

M-NCPPC PERMIT NO. MR2023016 SHA TRACKING NO. 24APMO039XX

0 30' 60'
SCALE: 1"=30'

DATE: APRIL 2025

Project No. : 502108 Sheet 1 of 393

FILE NAME: C:\pwworking\jmt\d0642115\pGN_Title Sheet.dwg LAYOUT NAME: 24x36 PLOTTED: Monday, April 07, 2025 - 1:59pm USER: AHavener

ABBREVIATIONS

A.A.S.H.T.O.	American Association of State Highway Transportation Officials	LP	Low Point	SSD	Stopping Sight Distance
APPROX.	Approximate	LT	Left	SSF	Super Silt Fence
B or B/L	Baseline	MAX.	Maximum	STD.	Standard
C.C.	Center of Curve	MOD.	Modified	SO.	Single Opening
C or C/L	Centerline	MIN.	Minimum	S.Y.	Square Yards
C.I.P.	Cast Iron Pipe	N	North	SWM	Stormwater Management
C.M.P.	Corrugated Metal Pipe	NB	Northbound	SW	Sidewalk
C.O.	Cleanout	NE	Northeast	T	Tangent
COMB.	Combination	N.T.S.	Not To Scale	T	Telephone
CONC.	Concrete	O.C.	On Center	T.C.P.	Terra Cotta Pipe
CONSTR.	Construction	P.C.	Point of Curvature	TYP.	Typical
C.P.P.	Corrugated Polyethylene Pipe	P.C.C.	Point of Compound Curve	U.P.	Utility Pole
D.B.H.	Diameter Breast Height	P/C	Point of Grown	VAR.	Varies
DC	Degree of Curve	PGA	Point of Grade Application	V.C.L.	Vertical Curve Length
D.H.V.	Design Hour Volume	P/GE	Profile Grade Elevation	W	Water
D.I.	Drop Inlet	P.G.E.	Profile Ground Elevation	W	West
DIA.	Diameter	P.G.L.	Profile Grade Line	WB	Westbound
D.O.	Double Opening	P/GL	Profile Ground Line		
E	East	P/R	Point of Rotation		
E	Electric	P.I.	Point of Intersection		
E	External Distance	P.O.C.	Point on Curve		
EA.	Each	P.O.T.	Point on Tangent		
E.B.	Eastbound	PROP.	Proposed		
ELEV.	Elevation	PT.	Point		
E.R.C.C.P.	Elliptical Reinforced Cement Concrete Pipe	P.T.	Point of Tangency		
ES	End Section	P.V.C.	Point of Vertical Curve		
EX. or EXIST.	Existing	PVC	Polyvinyl Chloride		
FT	Feet	PVI	Point of Intersection		
F or FL	Flowline	R	Radius		
FWD	Forward	RET. WALL	Retaining Wall		
G	Gas	RT	Right		
H.D.P.E.	High-Density Polyethylene	RW or R/W	Right of Way		
H.E.R.C.P.	Horizontal Elliptical Reinforced Concrete Pipe	R.C.P.	Reinforced Cement Pipe		
HP	Hight Point	R.C.C.P.	Reinforced Cement Concrete Pipe		
HMA	Hot Mix Asphalt	S	South		
HT	Height	SAN.	Sanitary Sewer		
IN	Inch	SB	Southbound		
INV	Invert	S.D.	Storm Drain		
L	Length	S.E.	Superelevation		
LANDSC.	Landscaped	SF	Silt Fence		
L.F.	Linear Feet	S.F.	Square Feet		

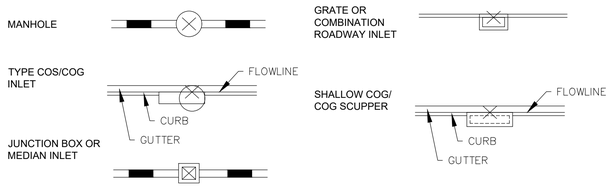
EXISTING LEGEND

- SIGN
- MAIL BOX
- FLAG POLE
- LANDSCAPE LIGHTING
- LIGHT POST
- UTILITY POLE
- GUY WIRE ANCHOR
- GUY POLE
- GAS VALVE
- WATER VALVE
- WATER METER
- FIRE HYDRANT
- SANITARY MANHOLE
- STORM DRAIN MANHOLE
- DECIDUOUS TREE
- CONIFER TREE
- BUSH
- HEDGE/BUSHES
- 434.0 SPOT ELEVATION
- STREAM
- INDEX CONTOUR
- 430 INTERVAL CONTOUR
- EXISTING RIGHT OF WAY
- PROPERTY LINE

PROPOSED LEGEND

- SIGN
- MAIL BOX
- FLAG POLE
- LANDSCAPE LIGHTING
- LIGHT POST
- UTILITY POLE
- GUY WIRE ANCHOR
- GUY POLE
- GAS VALVE
- WATER VALVE
- WATER METER
- FIRE HYDRANT
- SANITARY MANHOLE
- STORM DRAIN MANHOLE
- WOOD FENCE
- METAL FENCE
- STREAM
- LIMIT OF GRADING
- GUARDRAIL W-BEAM
- LOD LIMIT OF DISTURBANCE
- TCE TEMPORARY CONSTRUCTION EASEMENT
- RSE REVERTIBLE SLOPE EASEMENT
- PE PERPETUAL EASEMENT

DRAINAGE STRUCTURE STAKEOUT LOCATIONS



DRAINAGE BUBBLES

90% DESIGN
NOT FOR CONSTRUCTION

NO.	REVISION	DATE	BY

MONTGOMERY COUNTY
DEPARTMENT OF TRANSPORTATION
GAITHERSBURG, MARYLAND

RECOMMENDED FOR APPROVAL

Chief, Design Section — Date

APPROVED

Chief, Division of Transportation Engineering — Date

Designed by: ADH Drawn by: TMB Checked by: JJR

GN-02
ABBREVIATIONS AND SYMBOLS
BOWIE MILL ROAD
BIKEWAY

M-NCPPC PERMIT NO. MR2023016 SHA TRACKING NO. 24APMO039XX

0 30' 60'
SCALE: 1"=30'

DATE: APRIL 2025

Project No. : 502108 Sheet 2 of 393

FILE NAME: C:\pwworking\jmt\d0642115\pGN_General Notes.dwg LAYOUT NAME: GN-02 PLOTTED: Monday, April 07, 2025 - 1:59pm USER: AHavener

GENERAL NOTES

1. THE SPECIFICATIONS FOR THIS CONTRACT WILL BE THOSE OF THE MARYLAND STATE HIGHWAY ADMINISTRATION DATED JULY 2023, ALL ERRATA AND ADDENDA THERETO, THE MARYLAND STATE HIGHWAY ADMINISTRATION BOOK OF STANDARDS FOR HIGHWAY AND INCIDENTAL STRUCTURES, WASHINGTON SUBURBAN SANITARY COMMISSION (W.S.S.C.) STANDARDS, MONTGOMERY COUNTY DEPARTMENT OF TRANSPORTATION STANDARDS, AND SOIL CONSERVATION SERVICE POND CONSTRUCTION SPECIFICATIONS FOR MARYLAND.
2. FOR CONSTRUCTION, ALL HORIZONTAL SHALL BE BASED ON NAD 83/91, NAVD 88 DATUM.
3. TYPES OF STORM DRAIN STRUCTURES REFER TO THE "DESIGN STANDARDS" OF MONTGOMERY COUNTY DEPARTMENT OF TRANSPORTATION, UNLESS OTHERWISE NOTED.
4. WHEN THE DROP ON THE MAIN LINE THROUGH A STORM DRAIN STRUCTURE CAN BE ACCOMMODATED BY AN INVERT SLOPE OF 1.5:1 OR FLATTER, A ROUNDED CHANNEL LINED WITH SEWER BRICK ON EDGE SHALL BE BUILT TO THE CROWN OF THE PIPES. WHEN THE INVERT SLOPES WOULD BE GREATER THAN 1.5:1 A SPECIAL INVERT SHALL BE CONSTRUCTED AS NOTED.
5. ALL STORM DRAIN PIPE SHALL BE INSTALLED WITH CLASS "C" BEDDING UNLESS OTHERWISE SPECIFIED.
6. THE CONTRACTOR SHALL MAKE FIELD ADJUSTMENTS TO STORM DRAIN STRUCTURES, WHEN NECESSARY, TO MEET EXISTING CONDITIONS, AS APPROVED BY MONTGOMERY COUNTY DEPARTMENT OF TRANSPORTATION'S PROJECT INSPECTOR.
7. INFORMATION CONCERNING UNDERGROUND UTILITIES WAS OBTAINED FROM AVAILABLE RECORDS, BUT THE CONTRACTOR MUST DETERMINE THE EXACT LOCATIONS AND ELEVATIONS OF THE LINES BY DIGGING TEST PITS BY HAND AT ALL UTILITY CROSSINGS, WELL IN ADVANCE OF TRENCHING. IF CLEARANCES ARE LESS THAN SHOWN OR SIX (6) INCHES, WHICHEVER IS LESS, CONTACT MONTGOMERY COUNTY DEPARTMENT OF TRANSPORTATION'S PROJECT INSPECTOR AND THE APPROPRIATE UTILITY OWNER BEFORE PROCEEDING WITH CONSTRUCTION.
8. REPAIRS TO UTILITIES OR PROPERTY DAMAGE AS A RESULT OF THE CONTRACTOR'S NEGLIGENCE OR METHOD OF OPERATION MUST BE MADE AT THE CONTRACTOR'S EXPENSE BEFORE PROCEEDING WITH CONSTRUCTION.
9. CALL "MISS UTILITY" AT 1-800-257-7777 FORTY-EIGHT (48) HOURS PRIOR TO BEGINNING EXCAVATION TO DETERMINE THE EXACT LOCATION OF EXISTING UTILITIES.
10. CLEARING IS TO BE LIMITED TO THE "LIMIT OF GRADING" AS SHOWN ON THE PLANS.
11. ALL GRADING SHALL BE DONE IN SUCH A MANNER AS TO PROVIDE POSITIVE DRAINAGE.
12. DISTURBED AREAS ADJACENT TO ESTABLISHED LAWNS SHALL BE SODDED. OTHER DISTURBED AREAS SHALL BE SEEDED AND MULCHED.
13. THE CONTRACTOR SHALL MAINTAIN THE APPROVED ROADSIDE TREE PERMIT FOR ANY MAINTENANCE, TREATMENT, PLANTING, REMOVAL, OR ROOT CUTTING ON TREES WITHIN THE PUBLIC RIGHT OF WAY. PERMIT REQUIREMENTS MAY BE OBTAINED FROM THE DEPARTMENT OF NATURAL RESOURCES, MARYLAND FOREST, PARK AND WILDLIFE SERVICE, TELEPHONE 301-854-6060.
14. THE LOCATION OF RIGHT-OF-WAY AND EASEMENT LINES SHOWN ON THE PLANS ARE FOR INFORMATION AND GUIDANCE ONLY. NO GUARANTEE IS MADE AS TO THE ACCURACY OF SAID LOCATIONS. PLEASE REFER TO THE APPROPRIATE RIGHT-OF-WAY PLATS.
15. ALL UTILITY POLES AND GUY WIRES NOTED FOR RELOCATION SHALL BE PERFORMED BY OTHERS.
16. CONTACT THE WASHINGTON SUBURBAN SANITARY COMMISSION SYSTEM MAINTENANCE ENGINEER BEFORE EXCAVATING BENEATH OR IN THE VICINITY OF EXISTING WATER OR SEWER LINES. BACKFILL TO BE DONE UNDER SUPERVISION OF W.S.S.C. CALL 301-699-4420
17. THE CONTRACTOR SHALL INSTALL PEDESTRIAN DETECTABLE WARNING SURFACES AT ALL SIDEWALK & PEDESTRIAN CROSSINGS. LOCATIONS AS DIRECTED BY THE ENGINEER. THE WARNING SURFACES SHALL BE IN CONFORMANCE WITH ADA REQUIREMENTS AND THE PROJECT SPECIAL PROVISION.
18. THE CONTRACTOR SHALL BE AWARE THAT OVERHEAD UTILITY WIRES EXIST WITHIN THE PROJECT SITE. LOCATIONS OF WIRES SHOULD BE NOTED IN FIELD WITH SIGNAGE TO AVOID CONFLICTS DURING CONSTRUCTION.

THE FOLLOWING MONTGOMERY COUNTY STANDARDS ARE REQUIRED FOR THIS PROJECT:

MC-100.01 - COMBINATION CONCRETE CURB AND GUTTER - TYPE A
MC-110.01 - RESIDENTIAL SIDEWALK
MC-112.01 - RESIDENTIAL SIDEWALK RAMP
MC-301.01 - RESIDENTIAL DRIVEWAY
MC-304.01 - DRIVEWAY ENTRANCE WITHOUT BUFFER
MC-811.01 - METHODS OF GRADING SIDE SLOPES

THE MOST CURRENT VERSION OF THESE STANDARDS CAN BE ACCESSED AT:
https://www.montgomerycountymd.gov/dot-dte/common/standards.html

THE FOLLOWING MARYLAND STATE HIGHWAY DEPARTMENT OF TRANSPORTATION, STATE HIGHWAY ADMINISTRATION STANDARDS (CONSTRUCTION AND TEMPORARY TRAFFIC CONTROL) ARE REQUIRED FOR THIS PROJECT:

MD-580.03 - NEW COMBINATION CURB AND GUTTER PLACEMENT ALONG EXISTING PAVEMENT
MD-580.08 - DRIVEWAYS AND BIKE PAVEMENT SECTIONS
MD-605.03 - TRAFFIC BARRIER W-BEAM ONE-SIDED END TREATMENT (TYPE C)
MD-605.10 - TRAFFIC BARRIER W-BEAM ONE-SIDED DOWNSTREAM END TREATMENT (TYPE K)
MD-605.22 - TRAFFIC BARRIER W-BEAM SINGLE FACE
MD-605.23 - TRAFFIC BARRIER W-BEAM, W-BEAM SPLICES AND OFFSET BLOCK
MD-605.23-01 - TRAFFIC BARRIER W-BEAM METAL POST
MD-605.31 - TRAFFIC BARRIER W-BEAM PLACEMENT DETAILS
MD-620.02 - STANDARD TYPE A COMBINATION CONCRETE CURB & GUTTER
MD-655.11 - SIDEWALK RAMPS PERPENDICULAR
MD-655.12 - SIDEWALK RAMPS PARALLEL
MD-655.40 - DETECTABLE WARNING SURFACES

FOR ALL SHA STANDARDS REFERRED TO ON THE PLANS, THE CONTRACTOR MUST GO TO THE BOOK OF STANDARDS WHICH WILL HAVE THE MOST CURRENT VERSION. THE BOOK OF STANDARDS CAN BE ACCESSED AT:
http://apps.roads.maryland.gov/businesswithsha/bizStdsSpecs/desManualStdPub/publicationsonline/ohd/bookstd/index.asp

M-NCPPC NOTES

1. A PRE-CONSTRUCTION MEETING MUST BE HELD PRIOR TO START OF WORK WITH A MINIMUM OF 72 HOURS PRIOR NOTICE. THE M-NCPPC PARK MANAGER, PARK INSPECTOR, AND PARK URBAN FORESTER SHALL BE REPRESENTED AT THE MEETING.
2. M-NCPPC RESERVES THE RIGHT TO ADJUST AND MODIFY THE LIMITS OF DISTURBANCE (LOD) IN THE FIELD TO MINIMIZE IMPACTS OF WORK.
3. NO CLEARING, GRUBBING, OR GRADING SHALL COMMENCE UNTIL THE LOD ARE STAKED IN THE FIELD AND ARE APPROVED BY THE PARK INSPECTOR AS WELL AS ANY OTHER APPLICABLE PERMITTING AGENCIES. AFTER THE LOD IS APPROVED, NO DISTURBANCE WILL BE ALLOWED OUTSIDE OF THE APPROVED LIMITS. ANY ITEMS DISTURBED OUTSIDE OF THE APPROVED LIMITS WILL BE REPLACED AT THE CONTRACTOR'S EXPENSE.
4. CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR IDENTIFYING THE LOCATION OF ALL EXISTING UTILITIES PRIOR TO START OF THE CONSTRUCTION RELATED WORK AND SHALL COORDINATE THE WORK WITH PARK INSPECTOR. THE CONTRACTOR SHALL MAINTAIN PROPER CLEARANCES BETWEEN ALL EXISTING AND PROPOSED UTILITIES AT ALL TIMES AS REQUIRED BY THE UTILITY COMPANIES. ANY COST ASSOCIATED WITH THE REPAIR OR REPLACEMENT OF UTILITIES DAMAGED BY THE CONTRACTOR SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR. ANY DAMAGE MADE TO THE UTILITY SHALL BE REPAIRED ON AN EMERGENCY BASIS PER THE LATEST SPECIFICATIONS OF THE CONCERNED UTILITY AND COMPLETED WORK SHALL BE APPROVED BY THE CONCERNED UTILITY. ANY DAMAGE SHALL BE DOCUMENTED IMMEDIATELY AND REPORTED TO THE PARK INSPECTOR.
5. THE ENTIRE LOD SHALL BE FENCED AS DIRECTED BY THE PARK INSPECTOR. WHERE SILT FENCE, SUPER SILT FENCE, OR TREE PROTECTION FENCE IS NOT REQUIRED, ORANGE BLAZE SAFETY FENCE MAY BE USED.
6. CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING SAFE FACILITY ACCESS THROUGHOUT CONSTRUCTION AND PROVIDE ANY APPROPRIATE DETOURS, TEMPORARY FACILITIES, AND SIGNAGE AS REQUESTED BY THE PARK MANAGER.
7. SITE RESTORATION AND REPAIR/REPLACEMENT OF DAMAGED INFRASTRUCTURE SHALL BE IN ACCORDANCE WITH M-NCPPC DETAILS, STANDARDS, AND SPECIFICATIONS AT THE DIRECTION OF THE PARK INSPECTOR AT NO COST TO M-NCPPC. SITE RESTORATION IS TO BE ACHIEVED TO THE SATISFACTION OF THE PARK INSPECTOR PRIOR TO DEMOBILIZATION.
8. STAGING AREAS AND ACCESS ROUTES SHALL BE DETERMINED IN FIELD AND APPROVED BY THE PARK INSPECTOR TO MINIMIZE IMPACTS.
9. EQUIPMENT RESTRICTIONS (E.G. 8 P.S.I. OR LESS) MAY BE REQUIRED BY M-NCPPC IN SENSITIVE AREAS.
10. THE CONTRACTOR SHALL COORDINATE WITH MONTGOMERY COUNTY DEPARTMENT OF PERMITTING SERVICES INSPECTOR AND/OR PARK INSPECTOR ON THE USE OF TRENCHLESS SILT FENCES AND/OR DAILY STABILIZATION TO AVOID CUTTING THROUGH MATURE TREES. WHERE TRENCHING IS REQUIRED, ROOT PRUNE PRIOR TO EXCAVATION FOR TRENCH AT THE DIRECTION OF THE PARK URBAN FORESTER.
11. SPECIAL PROTECTION MEASURES SHALL BE PROVIDED AS DIRECTED IN THE FIELD DURING CONSTRUCTION BY PARK INSPECTOR OR PARK URBAN FORESTER. THESE MAY INCLUDE, BUT NOT BE LIMITED TO, ROOT PRUNING, 12-INCH THICK MULCH LAYER ACCESS BEDDING, HARDWOOD MATS, ADDITIONAL TREE PROTECTION FENCING, TREE PLANKING, AND ADDITIONAL SEDIMENT CONTROLS.
12. TREE PROTECTION FENCING SHOULD BE 14-GAUGE WELDED WIRE TYPE (WITH METAL STAKES AT 10 FEET O.C.) AND MUST BE MAINTAINED THROUGHOUT CONSTRUCTION. TREE SAVE AREA SIGNAGE SHOULD BE POSTED EVERY 30 FEET ALONG FENCING. TREE PROTECTION FENCE SHOULD BE INSTALLED BY THE CONTRACTOR AND INSPECTED BY THE M-NCPPC PARK URBAN FORESTER PRIOR TO THE START OF CONSTRUCTION.
13. M-NCPPC MAY INSPECT CONDITION OF TREES THROUGHOUT CONSTRUCTION AND REQUIRE REPAIR, REMOVAL, AND/OR REPLACEMENT OF ANY DAMAGED TREES AT NO COST TO M-NCPPC.
14. TREES TO BE REMOVED ARE INDICATED WITH AN "X". NO OTHER TREES LARGER THAN 6" DBH SHALL BE DAMAGED OR REMOVED DURING CONSTRUCTION UNLESS APPROVED BY PARK URBAN FORESTER.
15. ALL PLANTING SUBSTITUTIONS MUST BE APPROVED BY PARK URBAN FORESTER. PLANT MATERIALS AND LOCATIONS SHOULD BE INSPECTED BY PARK URBAN FORESTER PRIOR TO INSTALLATION.
16. CONTRACTOR SHALL PROVIDE 4-FOOT HIGH (1-FOOT MINIMUM DIAMETER) 14-GAUGE WELDED WIRE DEER PROTECTION CAGES WITH MINIMUM OF ONE SUPPORT STAKE (OR TO CURRENT M-NCPPC SPECIFICATIONS) FOR ALL LANDSCAPE AND REFORESTATION TREES AND SHRUBS TO PREVENT DAMAGE BY DEER. TUBEX SHALL NOT BE USED AS A SUBSTITUTE.
17. NOTES AND DETAILS SHOWN ON THE DRAWINGS ARE TYPICAL UNLESS OTHERWISE SHOWN OR NOTED.

EARTHWORK SUMMARY

PROPOSAL QUANTITY

CLASS I EXCAVATION

CUT (FROM CROSS SECTIONS)	9,094	CY	
PAVEMENT REMOVAL	1,167	CY	
TOPSOIL UNDER FILL	-	CY	
ROOT MAT UNDER FILL	-	CY	
PLUS CUT (FROM SWM AREA)	-	CY	
TOTAL CLASS I EXCAVATION	10,261	CY	10,261 CY

CLASS IA EXCAVATION (ESTIMATED)

MUCK REMOVAL (IF ANY)	-	CY	
UNDERCUTTING	-	CY	
TOTAL CLASS IA EXCAVATION	-	CY	- CY

CLASS 2 EXCAVATION

CUT (FROM CROSS SECTIONS)	-	CY	
TOTAL CLASS 2 EXCAVATION	-	CY	- CY

EXCAVATION AVAILABLE FOR EMBANKMENT

TOTAL CLASS I EXCAVATION + CLASS 2 EXCAVATION	10,261	CY
MINUS:		
TOPSOIL (REMOVED IN CUT)	(2,540)	CY
TOPSOIL (REMOVED UNDER FILL)	(2,540)	CY
ROOT MAT (REMOVED IN CUT)	-	CY
ROOT MAT (REMOVED IN FILL)	-	CY
CUT ADJUSTED	5,181	CY
CUT DENSIFIED (x 0.83)	4,300	CY
TOTAL EXCAVATION AVAILABLE FOR EMBANKMENT	4,300	CY

EMBANKMENT REQUIRED

FILL (FROM CROSS SECTIONS)	10,545	CY	
REFILL FOR TOPSOIL UNDER FILL	2,540	CY	
REFILL FOR ROOT MAT UNDER FILL	-	CY	
FILL (FROM SWM AREA)	-	CY	
TOTAL	13,085	CY	
MINUS EXCAVATION AVAILABLE FOR EMBANKMENT	(4,300)	CY	
ADJUSTED TOTAL	8,785	CY	
PLUS DENSIFICATION FACTOR (x 1.20)	10,542	CY	
MINUS SELECT BORROW	-	CY	
COMMON BORROW	10,542	CY	10,542 CY
SELECT BORROW	-	CY	- CY

90% DESIGN
NOT FOR CONSTRUCTION

NO.	REVISION	DATE	BY

MONTGOMERY COUNTY
DEPARTMENT OF TRANSPORTATION
GAITHERSBURG, MARYLAND

RECOMMENDED FOR APPROVAL

Chief, Design Section — Date

APPROVED

Chief, Division of Transportation Engineering — Date

Designed by: ADH Drawn by: TMB Checked by: JJR

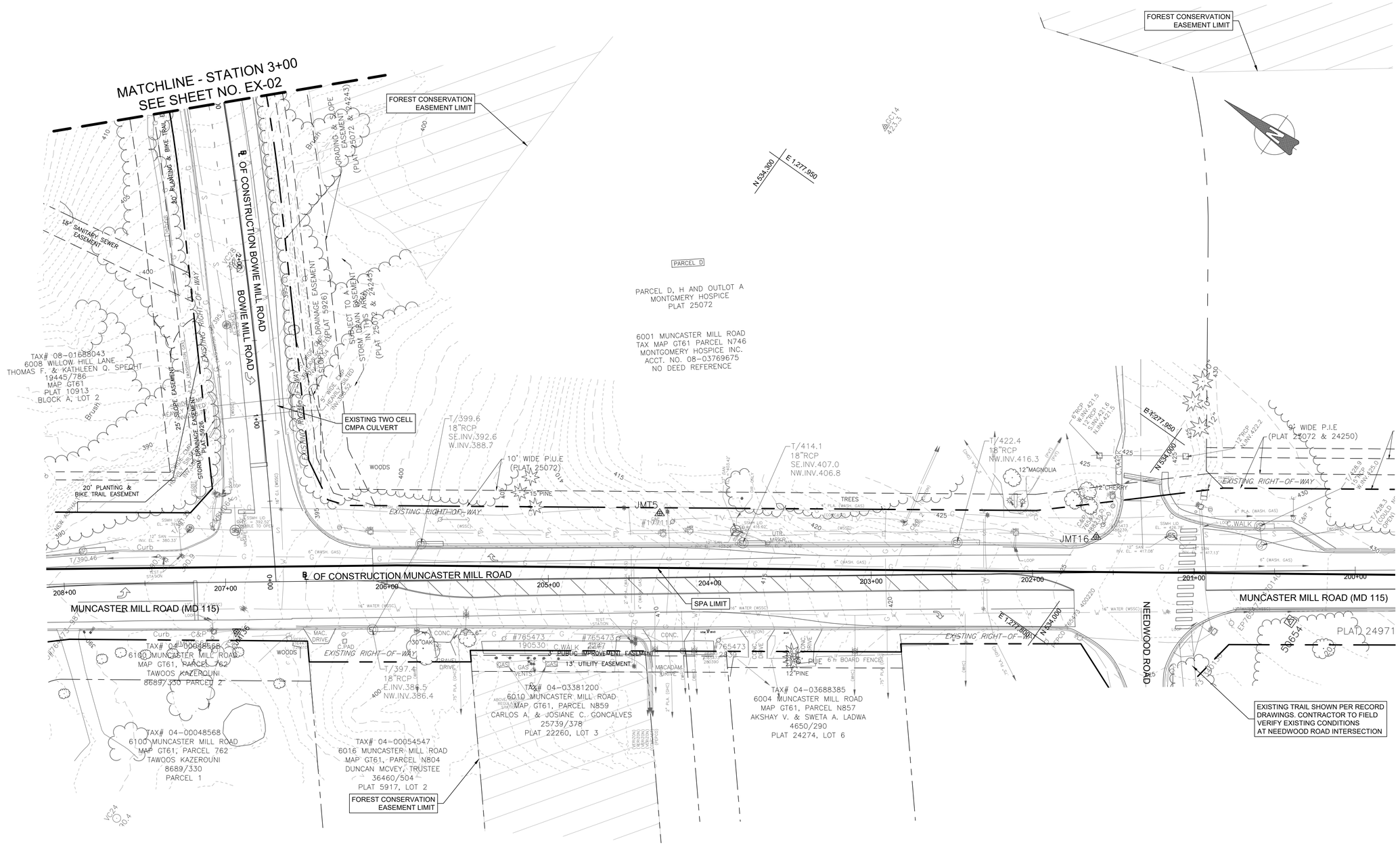
GN-03
GENERAL NOTES
BOWIE MILL ROAD
BIKEWAY

M-NCPPC PERMIT NO. MR2023016 SHA TRACKING NO. 24APMO039XX

0 30' 60'
SCALE: 1"=30'

DATE: APRIL 2025

Project No. : 502108 Sheet 3 of 393



NOTES:

1. THIS SHEET IS PARTIALLY WITHIN THE UPPER ROCK CREEK SPECIAL PROTECTION AREA

SURVEY TRAVERSE POINT COORDINATES				
POINT	NORTHING	EASTING	ELEVATION	DESCRIPTION
JMT5	543158.2888	1287808.9038	468.94	R&C
JMT16	540374.6016	1282533.6659	398.60	R&C
JMT36	534405.6540	1277516.6322	393.00	R&C

90% DESIGN
NOT FOR CONSTRUCTION

NO.	REVISION	DATE	BY

MONTGOMERY COUNTY
DEPARTMENT OF TRANSPORTATION
GAITHERSBURG, MARYLAND

RECOMMENDED FOR APPROVAL

Chief, Design Section — Date

APPROVED

Chief, Division of Transportation Engineering — Date

Designed by: ADH Drawn by: TMB Checked by: JJR

EX-01
EXISTING CONDITIONS PLAN
BOWIE MILL ROAD BIKEWAY

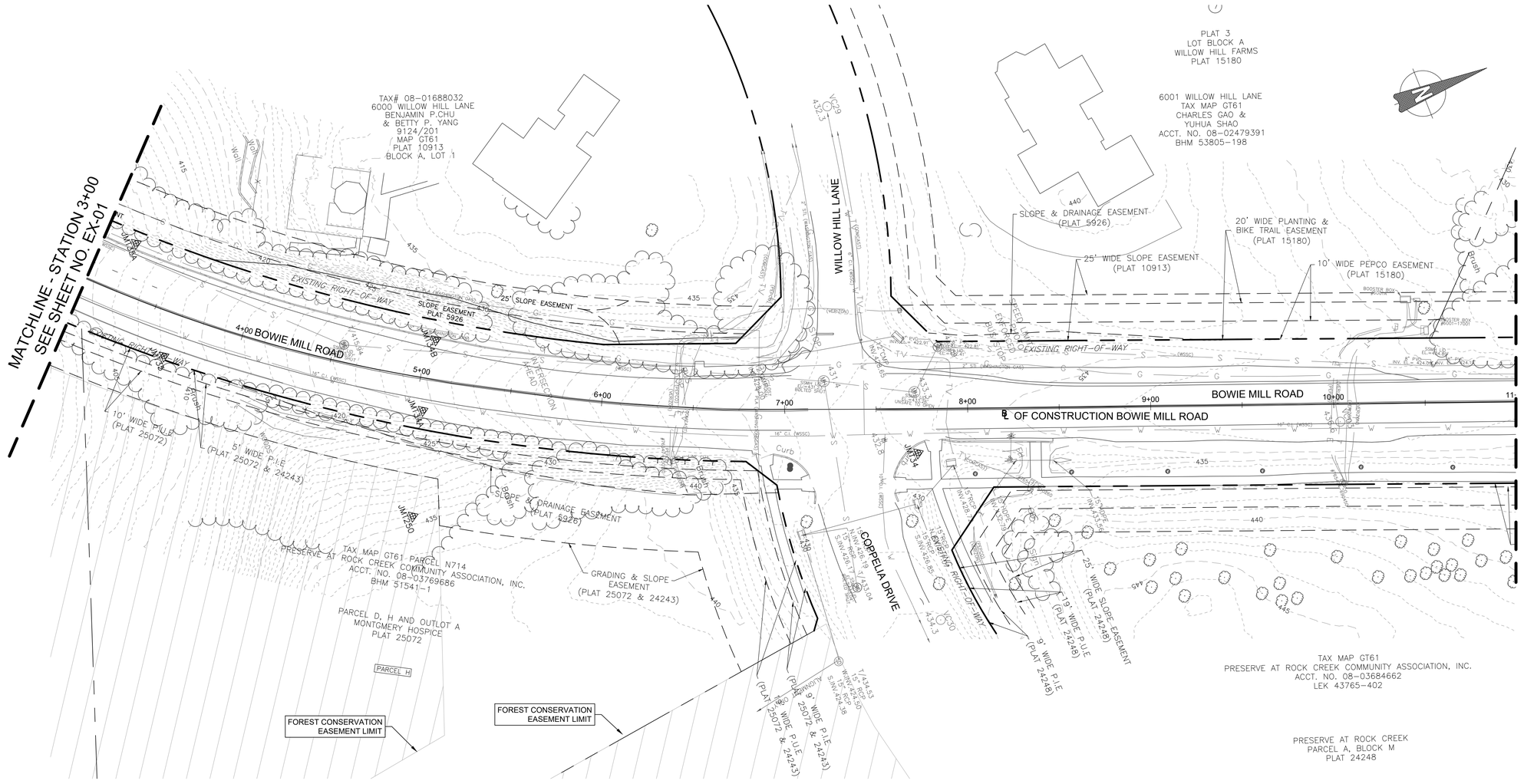
M-NCPPC PERMIT NO. MR2023016 SHA TRACKING NO. 24APMO039XX

0 30' 60'

SCALE: 1"=30' DATE: APRIL 2025

Project No. : 502108 Sheet 4 of 393

FILE NAME: C:\pwworking\jmt\d0642115\pHD_Bowie Mill Road_Existing.dwg LAYOUT NAME: EX-01 PLOTTED: Monday, April 07, 2025 - 1:59pm USER: AHavener



SURVEY TRAVERSE POINT COORDINATES				
POINT	NORTHING	EASTING	ELEVATION	DESCRIPTION
JMT34	534994.9611	1278044.6750	433.37	R&C
JMT34A	534752.2756	1277922.6990	419.38	R&C
JMT34B	534773.1819	1277889.5260	419.09	R&C
JMT35	534631.8969	1277842.6220	407.90	R&C
JMT35A	534640.6202	1277779.8240	406.10	R&C
JMT250	534725.7654	1277974.3380	433.57	R&C

NOTES:

1. THIS SHEET IS WITHIN UPPER ROCK CREEK SPECIAL PROTECTION AREA

90% DESIGN
NOT FOR CONSTRUCTION

NO.	REVISION	DATE	BY

MONTGOMERY COUNTY
DEPARTMENT OF TRANSPORTATION
GAITHERSBURG, MARYLAND

RECOMMENDED FOR APPROVAL

Chief, Design Section — Date

APPROVED

Chief, Division of Transportation Engineering — Date

Designed by: ADH Drawn by: TMB Checked by: JJR

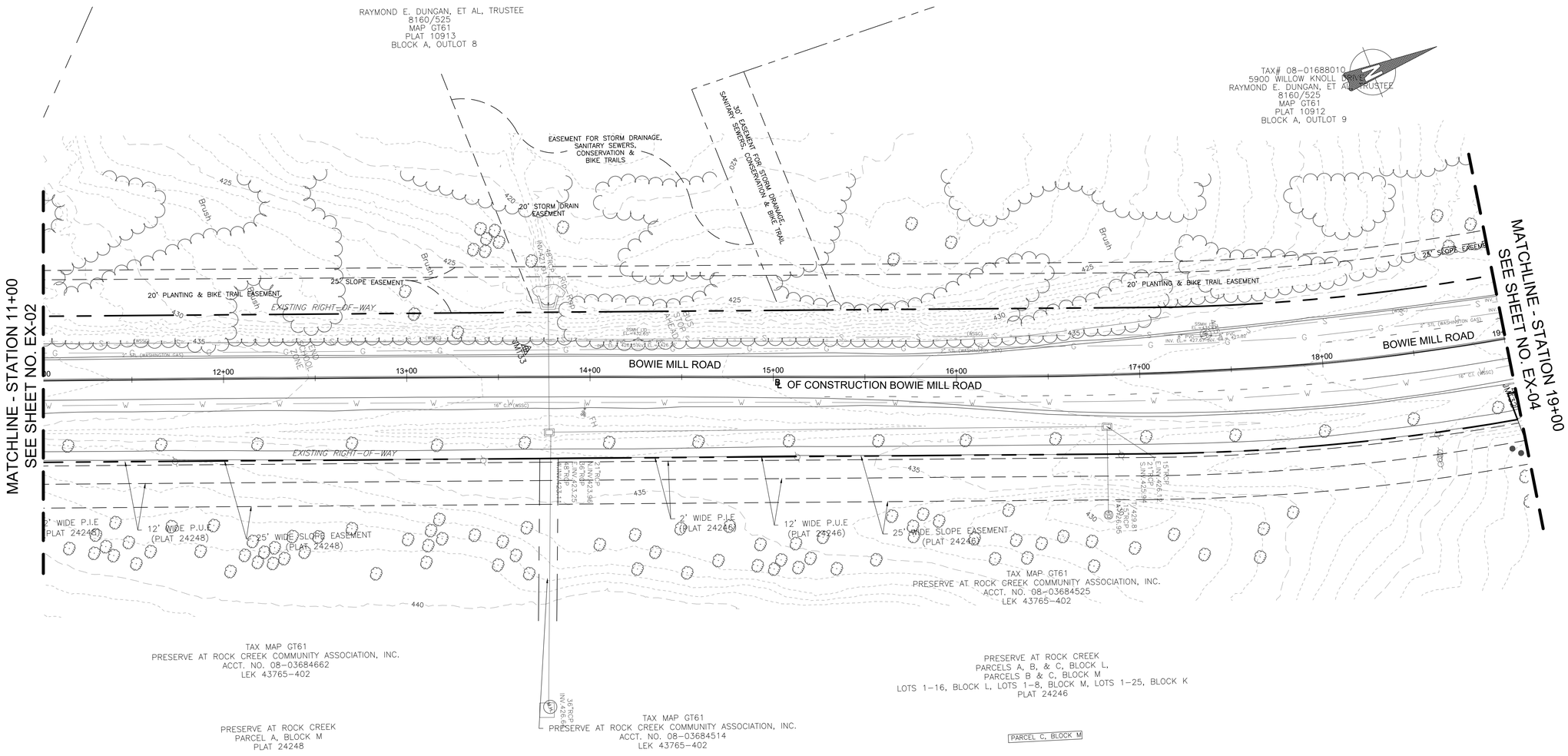
EX-02
EXISTING CONDITIONS PLAN
BOWIE MILL ROAD
BIKEWAY

M-NCPPC PERMIT NO. MR2023016 SHA TRACKING NO. 24APMO039XX

0 30' 60'
SCALE: 1"=30'

DATE: APRIL 2025

Project No. : 502108 Sheet 5 of 393



NOTES:

1. THIS SHEET IS WITHIN UPPER ROCK CREEK SPECIAL PROTECTION AREA

SURVEY TRAVERSE POINT COORDINATES				
POINT	NORTHING	EASTING	ELEVATION	DESCRIPTION
JMT32	536054.6333	1278444.7110	438.07	R&C
JMT33	535561.5203	1278222.1020	432.97	R&C

90% DESIGN
NOT FOR CONSTRUCTION

NO.	REVISION	DATE	BY

MONTGOMERY COUNTY
DEPARTMENT OF TRANSPORTATION
GAITHERSBURG, MARYLAND

RECOMMENDED FOR APPROVAL

Chief, Design Section — Date

APPROVED

Chief, Division of Transportation Engineering — Date

Designed by: ADH Drawn by: TMB Checked by: JJR

EX-03
EXISTING CONDITIONS PLAN
BOWIE MILL ROAD
BIKEWAY

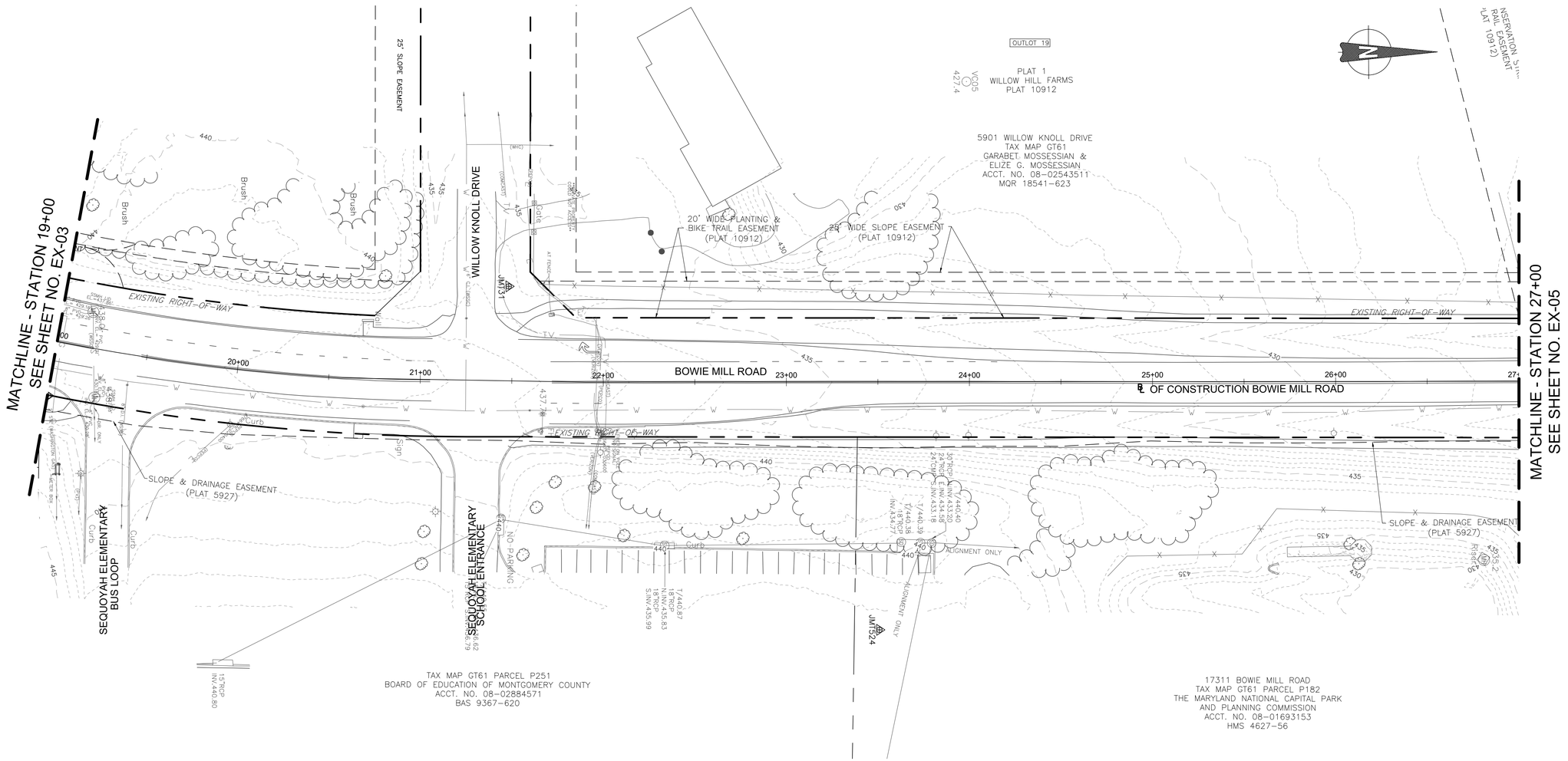
M-NCPPC PERMIT NO. MR2023016 SHA TRACKING NO. 24APMO039XX

0 30' 60'
SCALE: 1"=30'

DATE: APRIL 2025

Project No. : 502108 Sheet 6 of 393

FILE NAME: C:\pwworking\jmt\d0642115\pHD_Bowie Mill Road_Existing.dwg LAYOUT NAME: EX-03 PLOTTED: Monday, April 07, 2025 - 2:00pm USER: AHavener



SURVEY TRAVERSE POINT COORDINATES				
POINT	NORTHING	EASTING	ELEVATION	DESCRIPTION
JMT31	536306.3662	1278385.9540	436.34	R&C
JMT524	536508.1402	1278574.4730	443.17	

NOTES:

1. THIS SHEET IS WITHIN UPPER ROCK CREEK SPECIAL PROTECTION AREA.

90% DESIGN
NOT FOR CONSTRUCTION

NO.	REVISION	DATE	BY

MONTGOMERY COUNTY
DEPARTMENT OF TRANSPORTATION
GAITHERSBURG, MARYLAND

RECOMMENDED FOR APPROVAL

Chief, Design Section — Date

APPROVED

Chief, Division of Transportation Engineering — Date

Designed by: ADH Drawn by: TMB Checked by: JJR

EX-04
EXISTING CONDITIONS PLAN
BOWIE MILL ROAD BIKEWAY

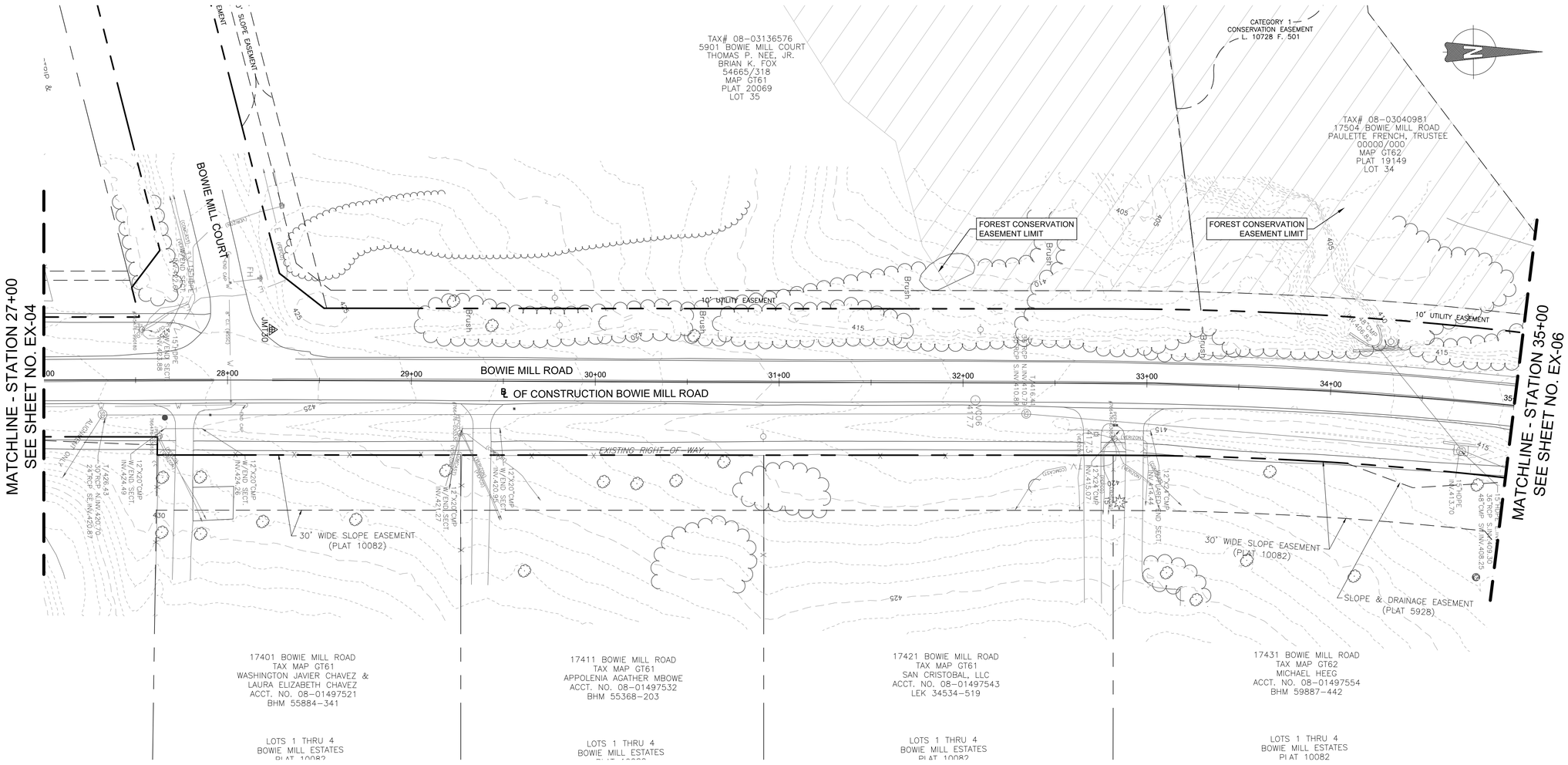
M-NCPPC PERMIT NO. MR2023016 SHA TRACKING NO. 24APMO039XX

0 30' 60'

SCALE: 1"=30' DATE: APRIL 2025

Project No. : 502108 Sheet 7 of 393

FILE NAME: C:\pwworking\jmt\d0642115\pHD_Bowie Mill Road_Existing.dwg LAYOUT NAME: EX-04 PLOTTED: Monday, April 07, 2025 - 2:00pm USER: AHavener



SURVEY TRAVERSE POINT COORDINATES				
POINT	NORTHING	EASTING	ELEVATION	DESCRIPTION
JMT30	536982.1649	1278412.9040	424.17	R&C

NOTES:

1. THIS SHEET IS WITHIN UPPER ROCK CREEK SPECIAL PROTECTION AREA.

90% DESIGN
NOT FOR CONSTRUCTION

NO.	REVISION	DATE	BY

MONTGOMERY COUNTY
DEPARTMENT OF TRANSPORTATION
GAITHERSBURG, MARYLAND

RECOMMENDED FOR APPROVAL

Chief, Design Section — Date

APPROVED

Chief, Division of Transportation Engineering — Date

Designed by: ADH Drawn by: TMB Checked by: JJR

EX-05
EXISTING CONDITIONS PLAN
BOWIE MILL ROAD BIKEWAY

M-NCPPC PERMIT NO. MR2023016 SHA TRACKING NO. 24APMO039XX

0 30' 60'

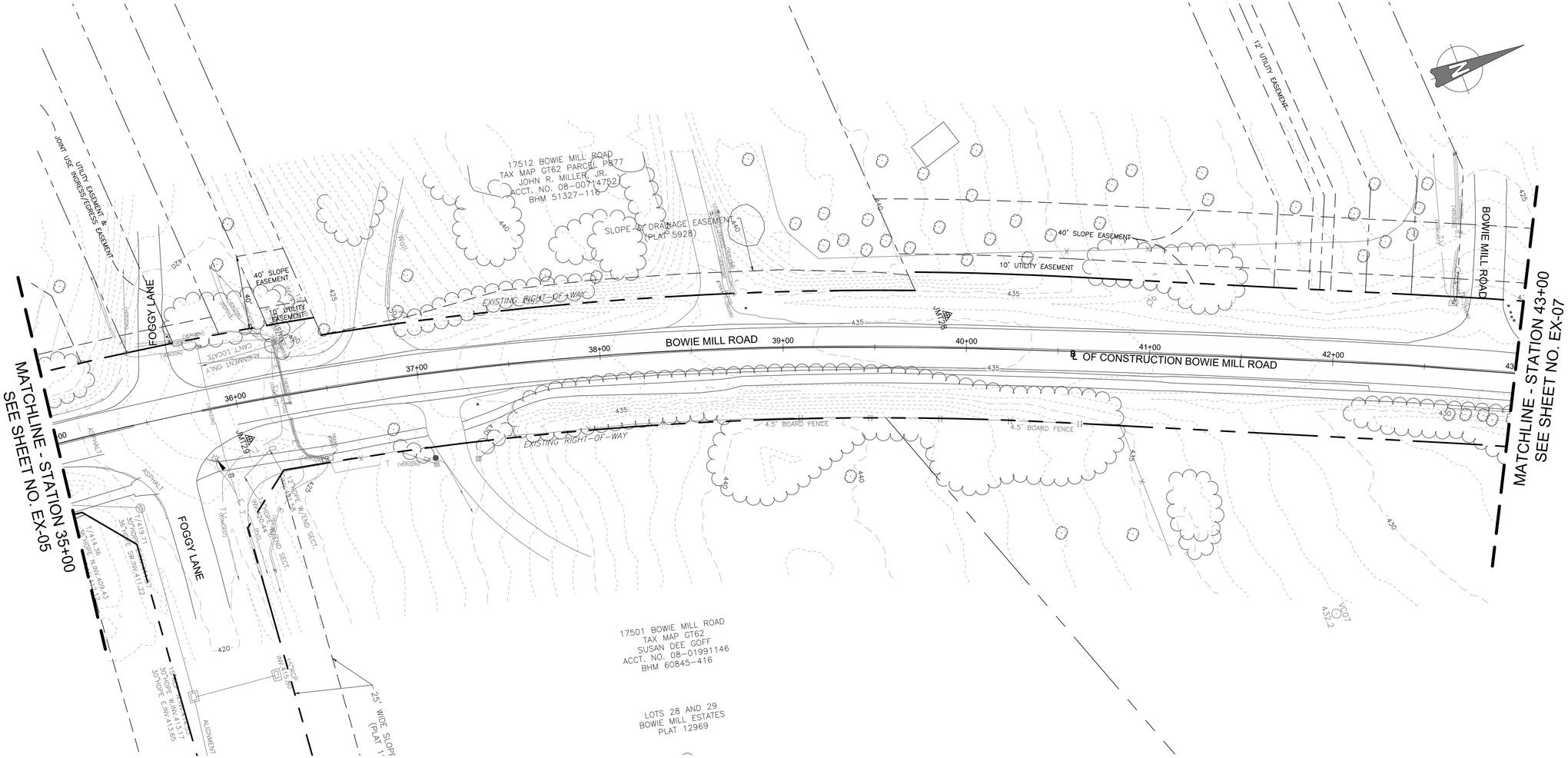
SCALE: 1"=30'

DATE: APRIL 2025

Project No. : 502108

Sheet 8 of 393

FILE NAME: C:\pwworking\jmt\d0642115\pHD_Bowie Mill Road_Existing.dwg LAYOUT NAME: EX-05 PLOTTED: Monday, April 07, 2025 - 2:00pm USER: AHavener



NOTES:

1. THIS SHEET IS WITHIN UPPER ROCK CREEK SPECIAL PROTECTION AREA.

SURVEY TRAVERSE POINT COORDINATES				
POINT	NORTHING	EASTING	ELEVATION	DESCRIPTION
JMT28	538136.3905	1278560.4060	434.19	R&C
JMT29	537756.3192	1278491.0120	423.85	R&C

90% DESIGN
NOT FOR CONSTRUCTION

NO.	REVISION	DATE	BY

MONTGOMERY COUNTY
DEPARTMENT OF TRANSPORTATION
GAITHERSBURG, MARYLAND

RECOMMENDED FOR APPROVAL

Chief, Design Section — Date

APPROVED

Chief, Division of Transportation Engineering — Date

Designed by: ADH Drawn by: TMB Checked by: JJR

EX-06
EXISTING CONDITIONS PLAN
BOWIE MILL ROAD BIKEWAY

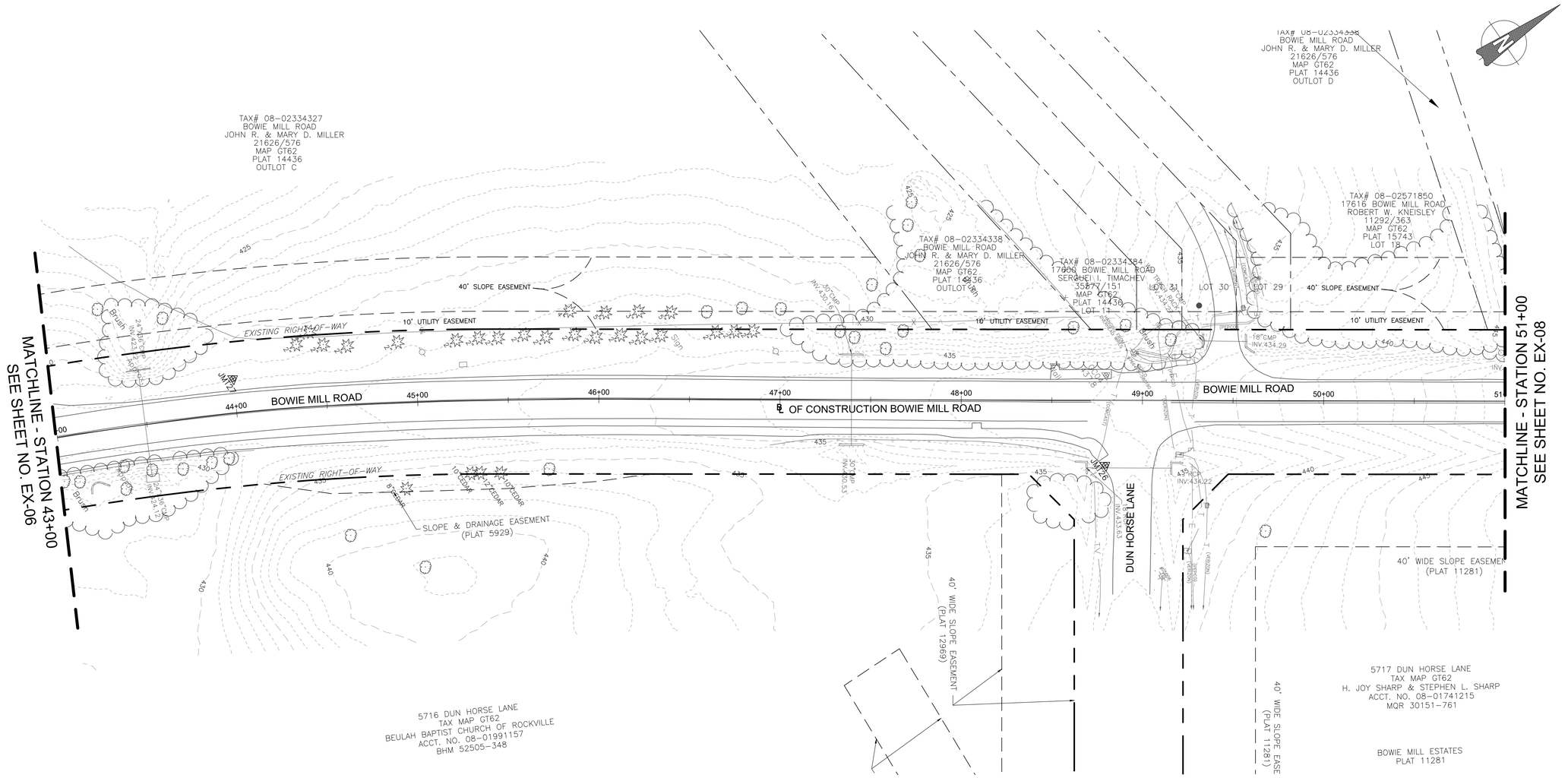
M-NCPPC PERMIT NO. MR2023016 SHA TRACKING NO. 24APMO039XX

0 30' 60'

SCALE: 1"=30' DATE: APRIL 2025

Project No. : 502108 Sheet 9 of 393

FILE NAME: C:\pwworking\jmt\d0642115\pHD_Bowie Mill Road_Existing.dwg LAYOUT NAME: EX-06 PLOTTED: Monday, April 07, 2025 - 2:00pm USER: AHavener



SURVEY TRAVERSE POINT COORDINATES				
POINT	NORTHING	EASTING	ELEVATION	DESCRIPTION
JMT26	538884.5058	1279037.9200	437.67	RR SPIKE
JMT27	538514.2668	1278726.5620	431.52	R&C

NOTES:

1. THIS SHEET IS WITHIN UPPER ROCK CREEK SPECIAL PROTECTION AREA.

90% DESIGN
NOT FOR CONSTRUCTION

NO.	REVISION	DATE	BY

MONTGOMERY COUNTY
DEPARTMENT OF TRANSPORTATION
GAITHERSBURG, MARYLAND

RECOMMENDED FOR APPROVAL

Chief, Design Section — Date

APPROVED

Chief, Division of Transportation Engineering — Date

Designed by: ADH Drawn by: TMB Checked by: JJR

EX-07
EXISTING CONDITIONS PLAN
BOWIE MILL ROAD BIKEWAY

M-NCPPC PERMIT NO. MR2023016 SHA TRACKING NO. 24APMO039XX

0 30' 60'

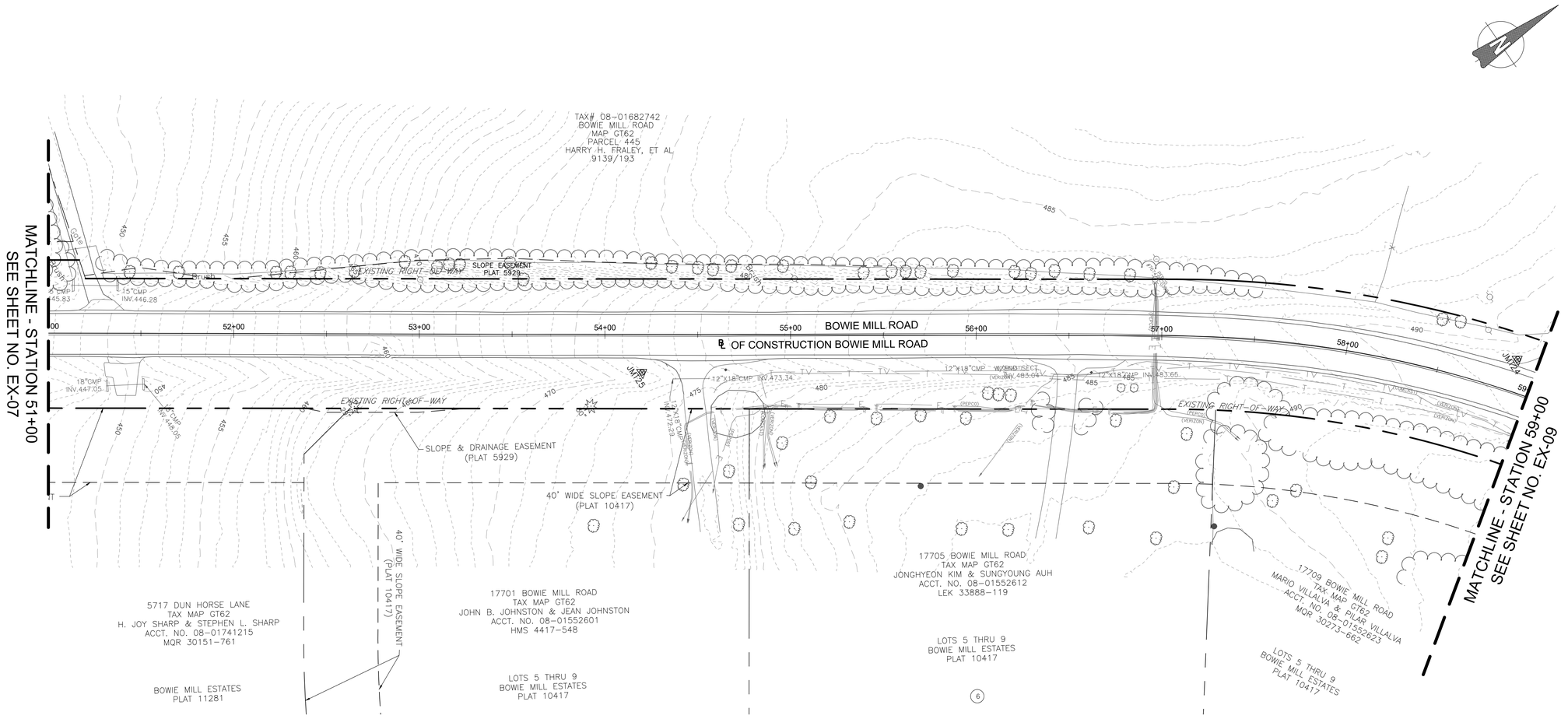
SCALE: 1"=30'

DATE: APRIL 2025

Project No. : 502108

Sheet 10 of 393

SURVEY TRAVERSE POINT COORDINATES				
POINT	NORTHING	EASTING	ELEVATION	DESCRIPTION
JMT24	539731.7424	1279592.1320	491.13	R&C
JMT25	539338.5530	1279331.5080	471.61	R&C



NOTES:

1. THIS SHEET IS WITHIN UPPER ROCK CREEK SPECIAL PROTECTION AREA.

90% DESIGN
NOT FOR CONSTRUCTION

NO.	REVISION	DATE	BY

MONTGOMERY COUNTY
DEPARTMENT OF TRANSPORTATION
GAITHERSBURG, MARYLAND

RECOMMENDED FOR APPROVAL

Chief, Design Section — Date

APPROVED

Chief, Division of Transportation Engineering — Date

Designed by: ADH Drawn by: TMB Checked by: JJR

EX-08
EXISTING CONDITIONS PLAN
BOWIE MILL ROAD BIKEWAY

M-NCPPC PERMIT NO. MR2023016 SHA TRACKING NO. 24APMO039XX

0 30' 60'

SCALE: 1"=30'

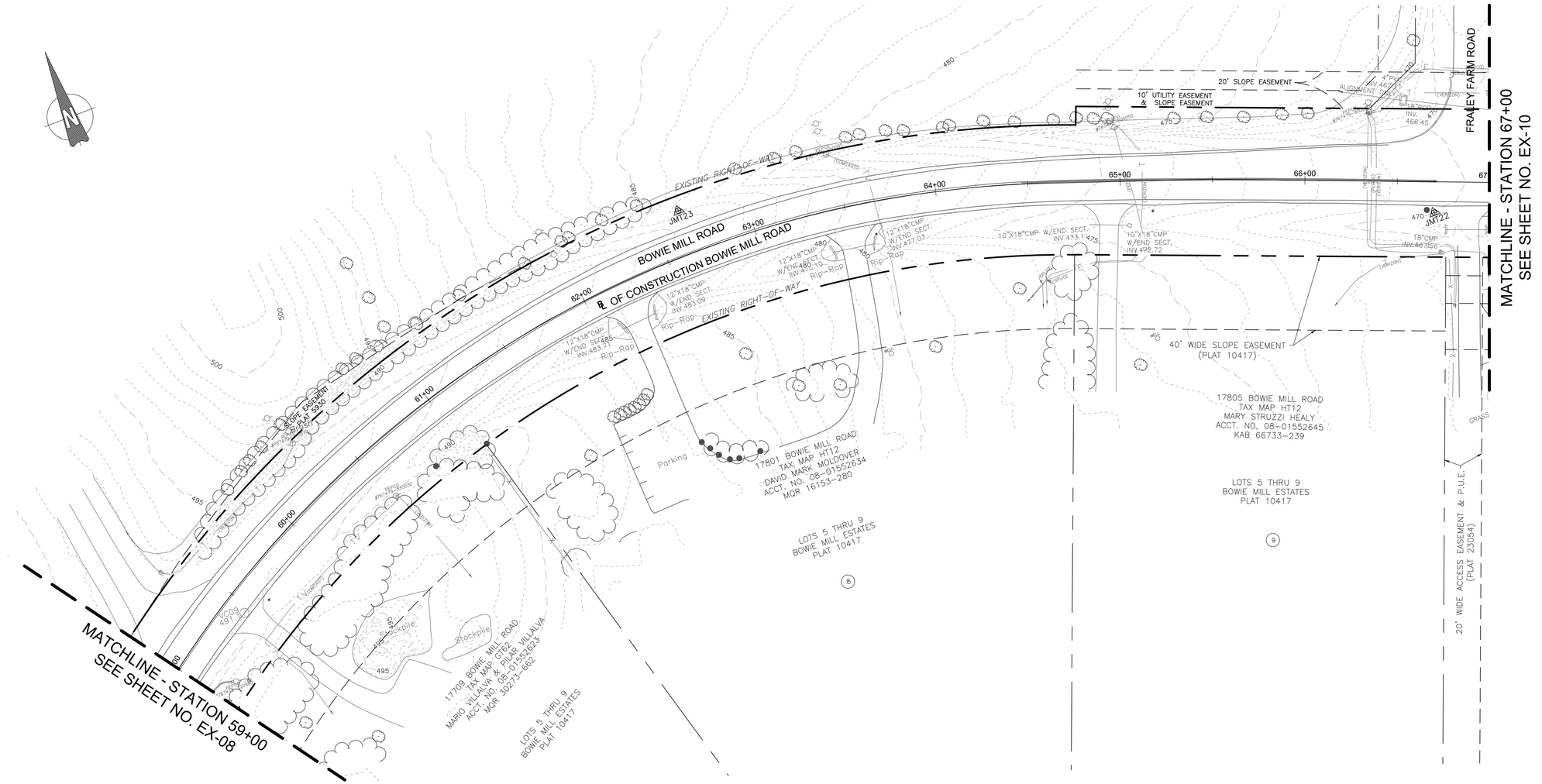
DATE: APRIL 2025

Project No. : 502108

Sheet 11 of 393

FILE NAME: C:\pwworking\jmt\d0642115\pHD_Bowie Mill Road_Existing.dwg LAYOUT NAME: EX-08 PLOTTED: Monday, April 07, 2025 - 2:01pm USER: AHavener

SURVEY TRAVERSE POINT COORDINATES				
POINT	NORTHING	EASTING	ELEVATION	DESCRIPTION
JMT22	539711.2884	1280334.3110	469.94	R&C
JMT23	539858.8147	1279952.7730	482.70	R&C



NOTES:

1. THIS SHEET IS WITHIN UPPER ROCK CREEK SPECIAL PROTECTION AREA.

90% DESIGN
NOT FOR CONSTRUCTION

NO.	REVISION	DATE	BY

MONTGOMERY COUNTY
DEPARTMENT OF TRANSPORTATION
GAITHERSBURG, MARYLAND

RECOMMENDED FOR APPROVAL

Chief, Design Section — Date

APPROVED

Chief, Division of Transportation Engineering — Date

Designed by: ADH Drawn by: TMB Checked by: JJR

EX-09
EXISTING CONDITIONS PLAN
BOWIE MILL ROAD BIKEWAY

M-NCPPC PERMIT NO. MR2023016 SHA TRACKING NO. 24APMO039XX

0 30' 60'

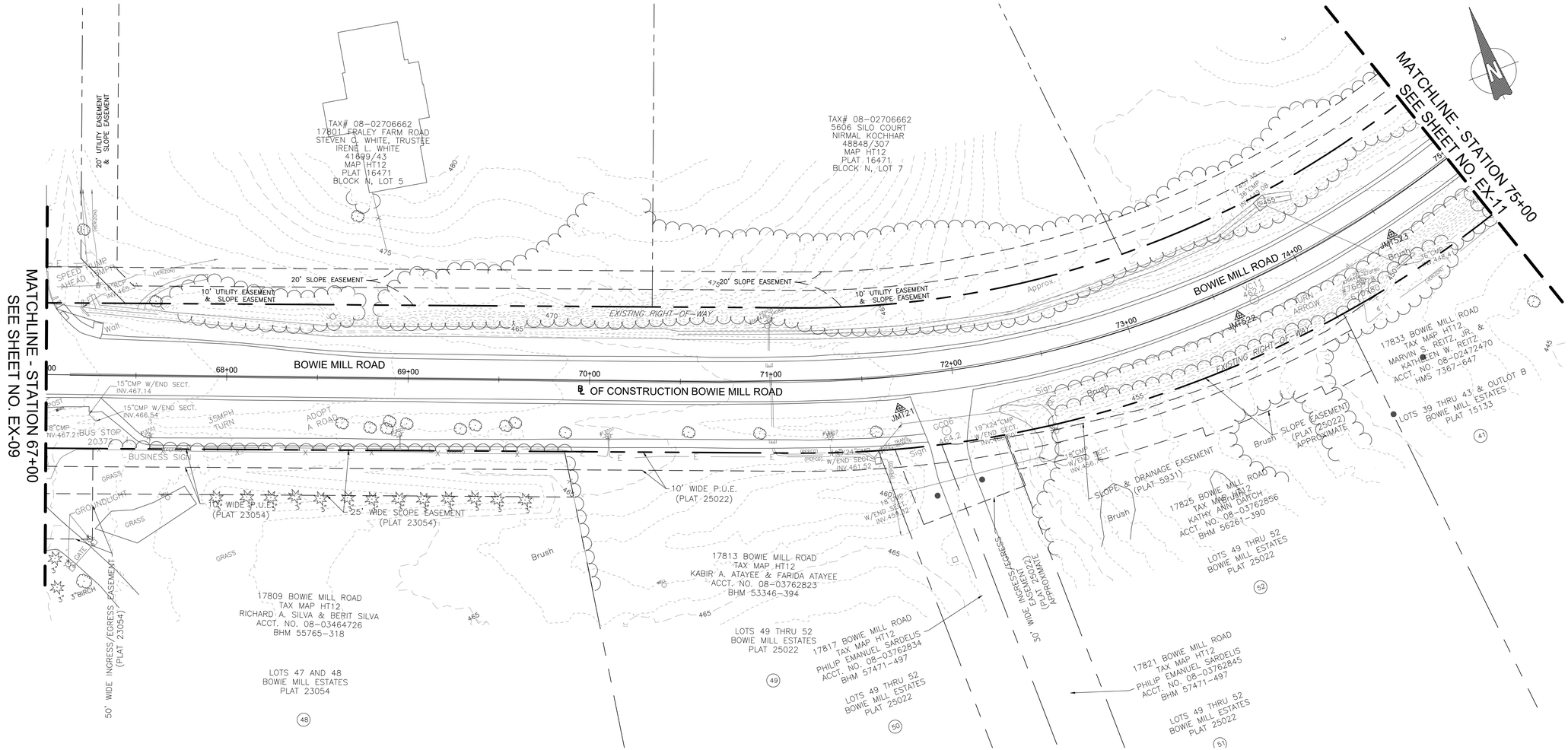
SCALE: 1"=30'

DATE: APRIL 2025

Project No. : 502108

Sheet 12 of 393

FILE NAME: C:\pwworking\jmt\d0642115\pHD_Bowie Mill Road_Existing.dwg LAYOUT NAME: EX-09 PLOTTED: Monday, April 07, 2025 - 2:01pm USER: AHavener



NOTES:

1. THIS SHEET IS WITHIN UPPER ROCK CREEK SPECIAL PROTECTION AREA.

SURVEY TRAVERSE POINT COORDINATES				
POINT	NORTHING	EASTING	ELEVATION	DESCRIPTION
JMT21	539529.6766	1280800.9530	463.68	R&C
JMT522	539510.2801	1280993.9780	461.96	
JMT523	539522.0055	1281088.3350	460.85	

90% DESIGN
NOT FOR CONSTRUCTION

NO.	REVISION	DATE	BY

MONTGOMERY COUNTY
DEPARTMENT OF TRANSPORTATION
GAITHERSBURG, MARYLAND

RECOMMENDED FOR APPROVAL

Chief, Design Section — Date

APPROVED

Chief, Division of Transportation Engineering — Date

Designed by: ADH Drawn by: TMB Checked by: JJR

EX-10
EXISTING CONDITIONS PLAN
BOWIE MILL ROAD BIKEWAY

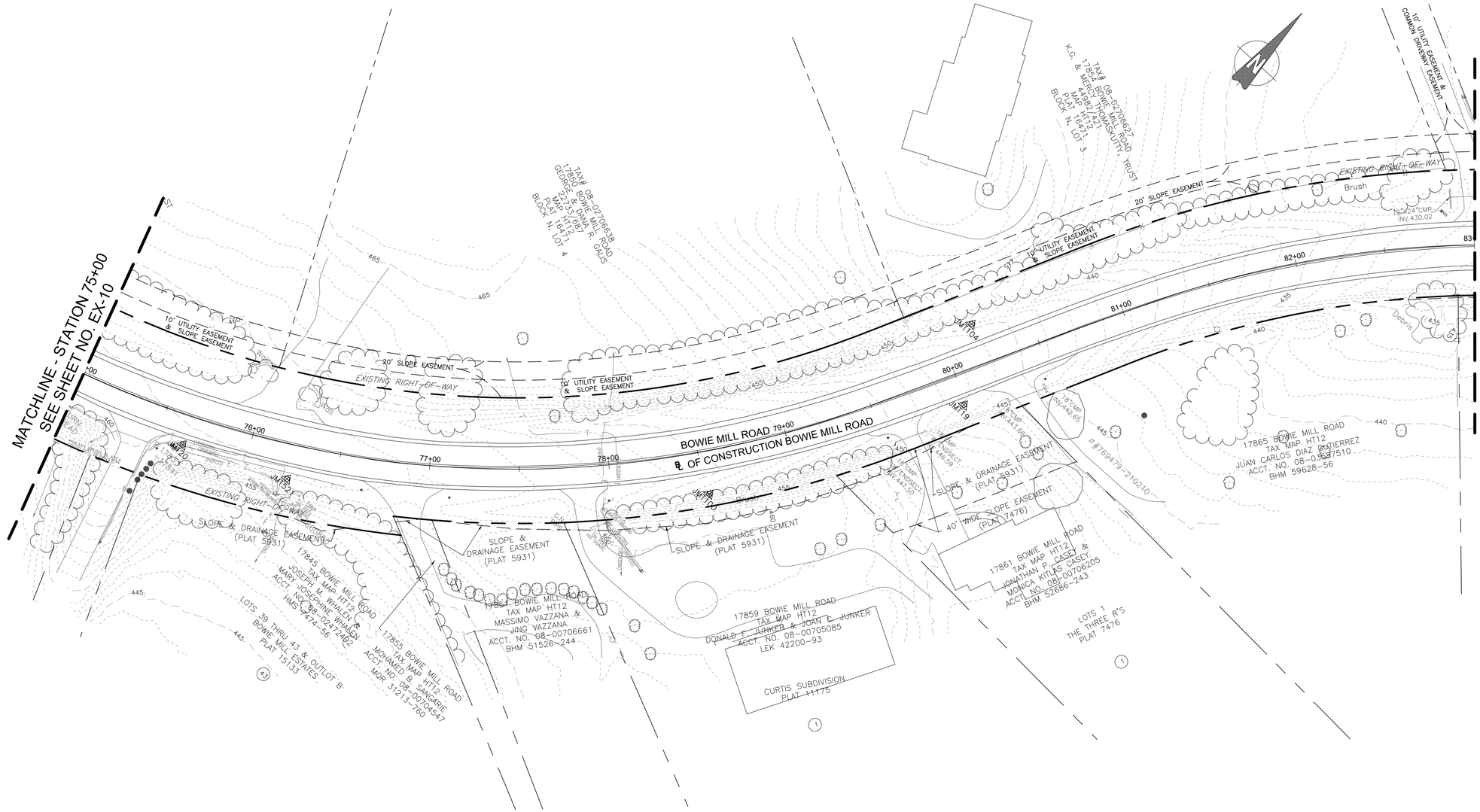
M-NCPPC PERMIT NO. MR2023016 SHA TRACKING NO. 24APMO039XX

0 30' 60'
SCALE: 1"=30'

DATE: APRIL 2025

Project No. : 502108 Sheet 13 of 393

FILE NAME: C:\pwworking\jmt\d0642115\pHD_Bowie Mill Road_Existing.dwg LAYOUT NAME: EX-10 PLOTTED: Monday, April 07, 2025 - 2:01pm USER: AHavener



SURVEY TRAVERSE POINT COORDINATES				
POINT	NORTHING	EASTING	ELEVATION	DESCRIPTION
JMT19	539865.9966	1281506.6710	446.93	R&C
JMT20	539557.6408	1281198.7900	459.80	R&C
JMT100	539734.1210	1281434.8690	453.29	R&C
JMT104	539902.1895	1281479.7020	444.47	R&C
JMT521	539582.5259	1281254.6950	458.54	

NOTES:

1. THIS SHEET IS WITHIN UPPER ROCK CREEK SPECIAL PROTECTION AREA.

90% DESIGN
NOT FOR CONSTRUCTION

NO.	REVISION	DATE	BY

MONTGOMERY COUNTY
DEPARTMENT OF TRANSPORTATION
GAITHERSBURG, MARYLAND

RECOMMENDED FOR APPROVAL

Chief, Design Section — Date

APPROVED

Chief, Division of Transportation Engineering — Date

Designed by: ADH Drawn by: TMB Checked by: JJR

EX-11
EXISTING CONDITIONS PLAN
BOWIE MILL ROAD BIKEWAY

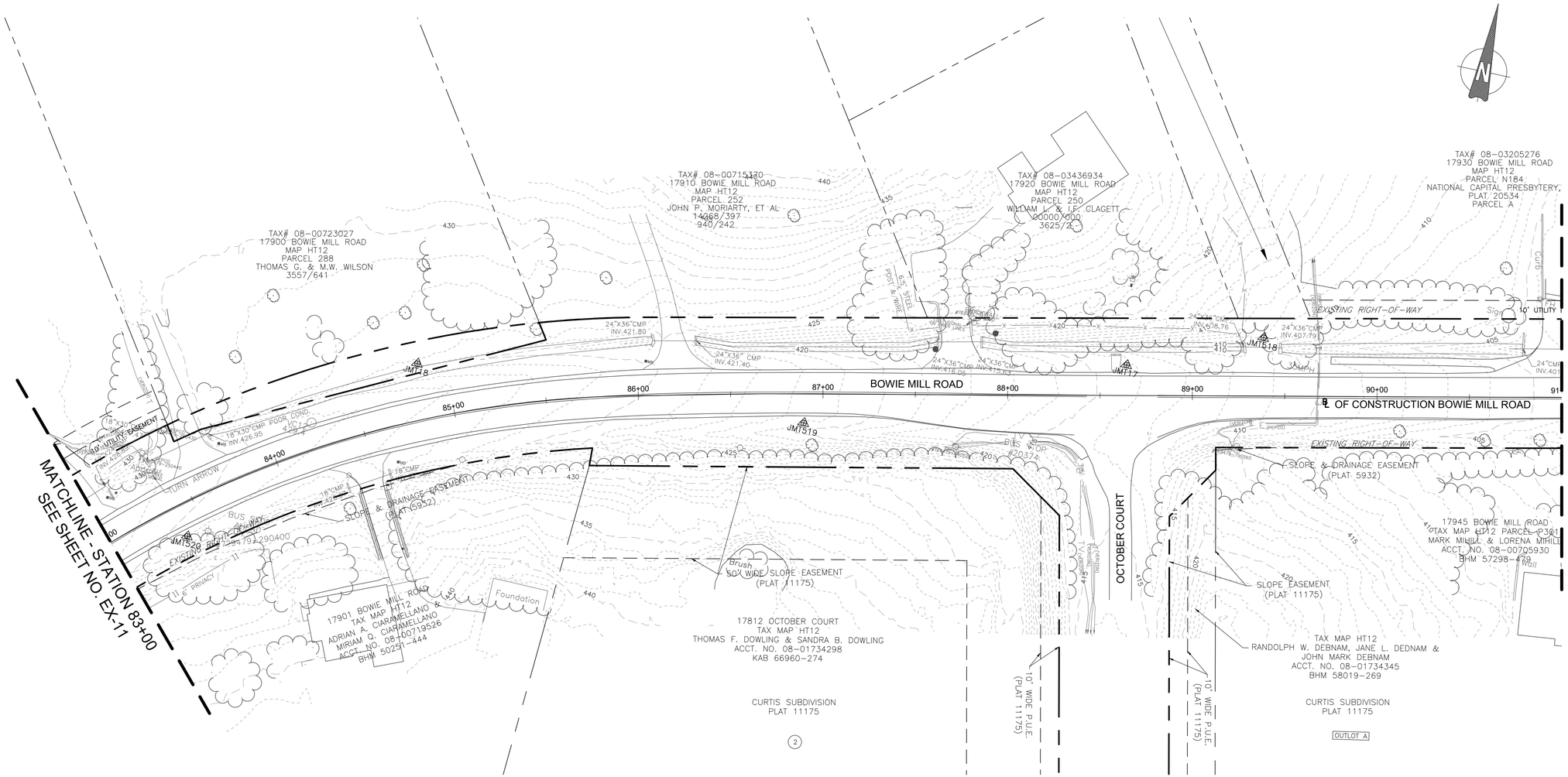
M-NCPPC PERMIT NO. MR2023016 SHA TRACKING NO. 24APMO039XX

0 30' 60'

SCALE: 1"=30' DATE: APRIL 2025

Project No. : 502108 Sheet 14 of 393

FILE NAME: C:\pwworking\jmt\d0642115\pHD_Bowie Mill Road_Existing.dwg LAYOUT NAME: EX-11 PLOTTED: Monday, April 07, 2025 - 2:02pm USER: AHavener



SURVEY TRAVERSE POINT COORDINATES				
POINT	NORTHING	EASTING	ELEVATION	DESCRIPTION
JMT17	540332.4674	1282175.3200	414.11	R&C
JMT18	540252.4240	1281799.7520	426.75	R&C
JMT518	540362.5540	1282244.7280	411.88	R&C
JMT519	540265.0054	1282010.9980	420.94	R&C
JMT520	540134.7659	1281697.6670	429.17	R&C

NOTES:

1. THIS SHEET IS WITHIN UPPER ROCK CREEK SPECIAL PROTECTION AREA.

90% DESIGN
NOT FOR CONSTRUCTION

NO.	REVISION	DATE	BY

MONTGOMERY COUNTY
DEPARTMENT OF TRANSPORTATION
GAITHERSBURG, MARYLAND

RECOMMENDED FOR APPROVAL

Chief, Design Section — Date

APPROVED

Chief, Division of Transportation Engineering — Date

Designed by: ADH Drawn by: TMB Checked by: JJR

EX-12
EXISTING CONDITIONS PLAN
BOWIE MILL ROAD BIKEWAY

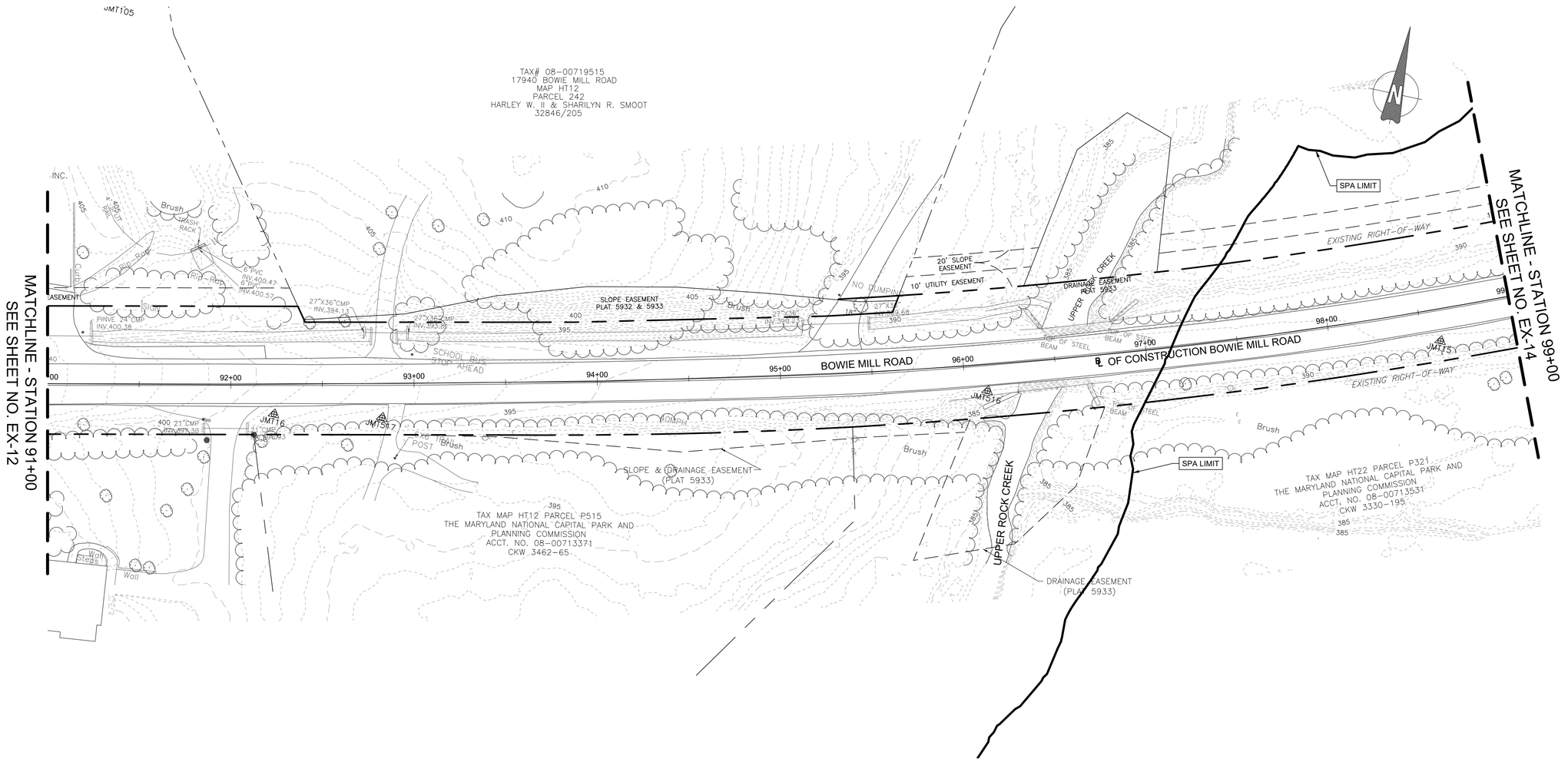
M-NCPPC PERMIT NO. MR2023016 SHA TRACKING NO. 24APMO039XX

0 30' 60'

SCALE: 1"=30' DATE: APRIL 2025

Project No. : 502108 Sheet 15 of 393

FILE NAME: C:\pwworking\jmt\d0642115\pHD_Bowie Mill Road_Existing.dwg LAYOUT NAME: EX-12 PLOTTED: Monday, April 07, 2025 - 2:02pm USER: AHavener



SURVEY TRAVERSE POINT COORDINATES				
POINT	NORTHING	EASTING	ELEVATION	DESCRIPTION
JMT15	540547.6929	1283147.6180	392.30	R&C
JMT16	540374.6016	1282533.6660	398.60	R&C
JMT516	540468.9908	1282911.6640	391.91	R&C
JMT517	540385.1768	1282591.7430	396.04	R&C

NOTES:

1. THIS SHEET IS PARTIALLY WITHIN THE UPPER ROCK CREEK SPECIAL PROTECTION AREA.

90% DESIGN
NOT FOR CONSTRUCTION

NO.	REVISION	DATE	BY

MONTGOMERY COUNTY
DEPARTMENT OF TRANSPORTATION
GAITHERSBURG, MARYLAND

RECOMMENDED FOR APPROVAL

Chief, Design Section — Date

APPROVED

Chief, Division of Transportation Engineering — Date

Designed by: ADH Drawn by: TMB Checked by: JJR

EX-13
EXISTING CONDITIONS PLAN
BOWIE MILL ROAD BIKEWAY

M-NCPPC PERMIT NO. MR2023016 SHA TRACKING NO. 24APMO039XX

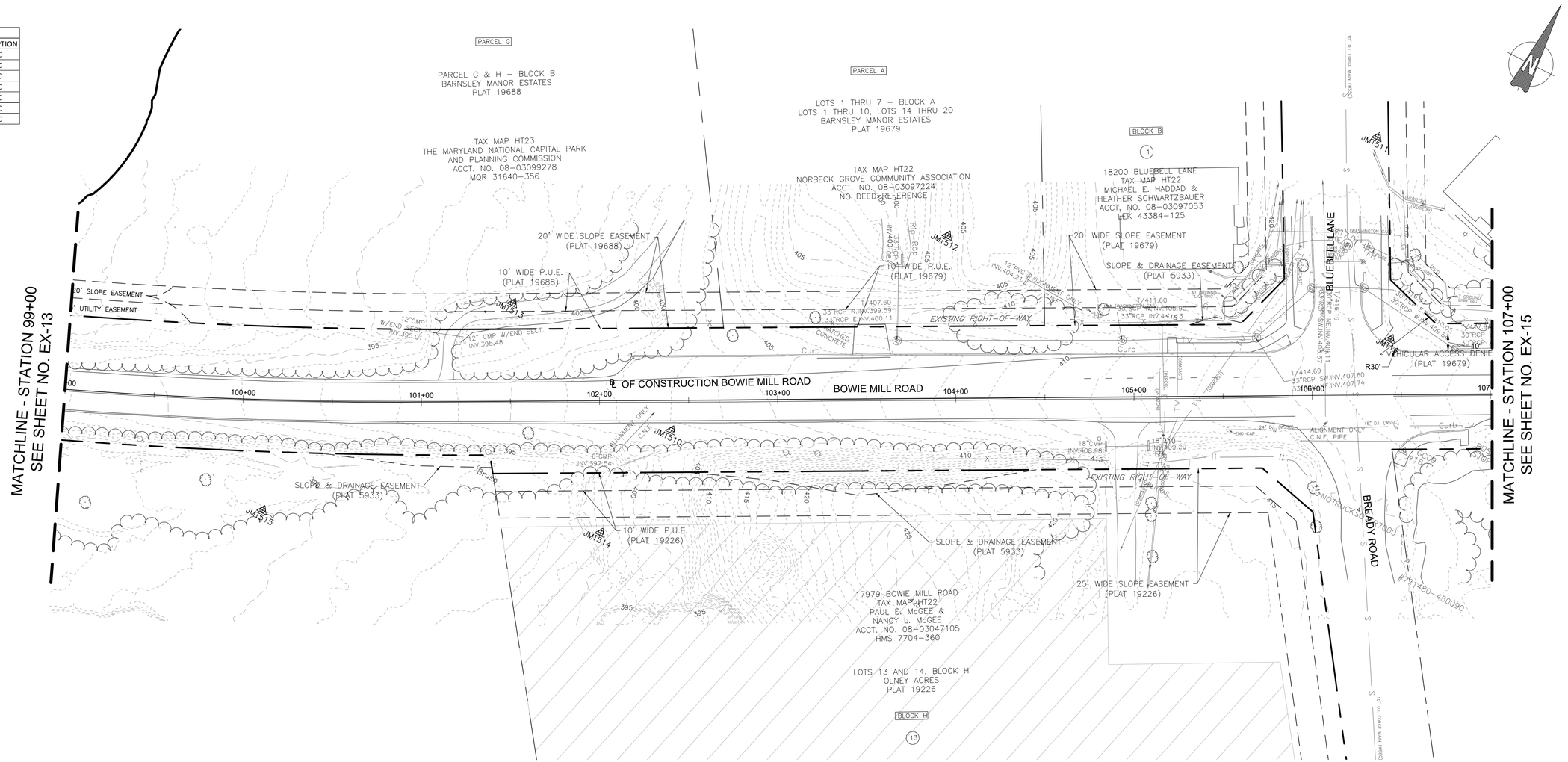
0 30' 60'

SCALE: 1"=30' DATE: APRIL 2025

Project No. : 502108 Sheet 16 of 393

FILE NAME: C:\pwworking\jmt\d0642115\pHD_Bowie Mill Road_Existing.dwg LAYOUT NAME: EX-13 PLOTTED: Monday, April 07, 2025 - 2:02pm USER: AHavener

SURVEY TRAVERSE POINT COORDINATES				
POINT	NORTHING	EASTING	ELEVATION	DESCRIPTION
JMT14	540941.7473	1283828.8280	416.91	R&C
JMT510	540713.0736	1283492.2700	402.13	R&C
JMT511	541039.5505	1283770.7670	420.61	R&C
JMT512	540880.8388	1283580.8800	407.31	R&C
JMT513	540736.4187	1283380.7150	399.53	R&C
JMT514	540643.7911	1283482.9600	395.99	R&C
JMT515	540569.0681	1283308.1050	389.17	R&C



NOTES:

1. THIS SHEET IS PARTIALLY WITHIN THE UPPER ROCK CREEK SPECIAL PROTECTION AREA.

90% DESIGN
NOT FOR CONSTRUCTION

NO.	REVISION	DATE	BY

MONTGOMERY COUNTY
DEPARTMENT OF TRANSPORTATION
GAITHERSBURG, MARYLAND

RECOMMENDED FOR APPROVAL

Chief, Design Section — Date

APPROVED

Chief, Division of Transportation Engineering — Date

Designed by: ADH Drawn by: TMB Checked by: JJR

EX-14
EXISTING CONDITIONS PLAN
BOWIE MILL ROAD BIKEWAY

M-NCPPC PERMIT NO. MR2023016 SHA TRACKING NO. 24APMO039XX

0 30' 60'

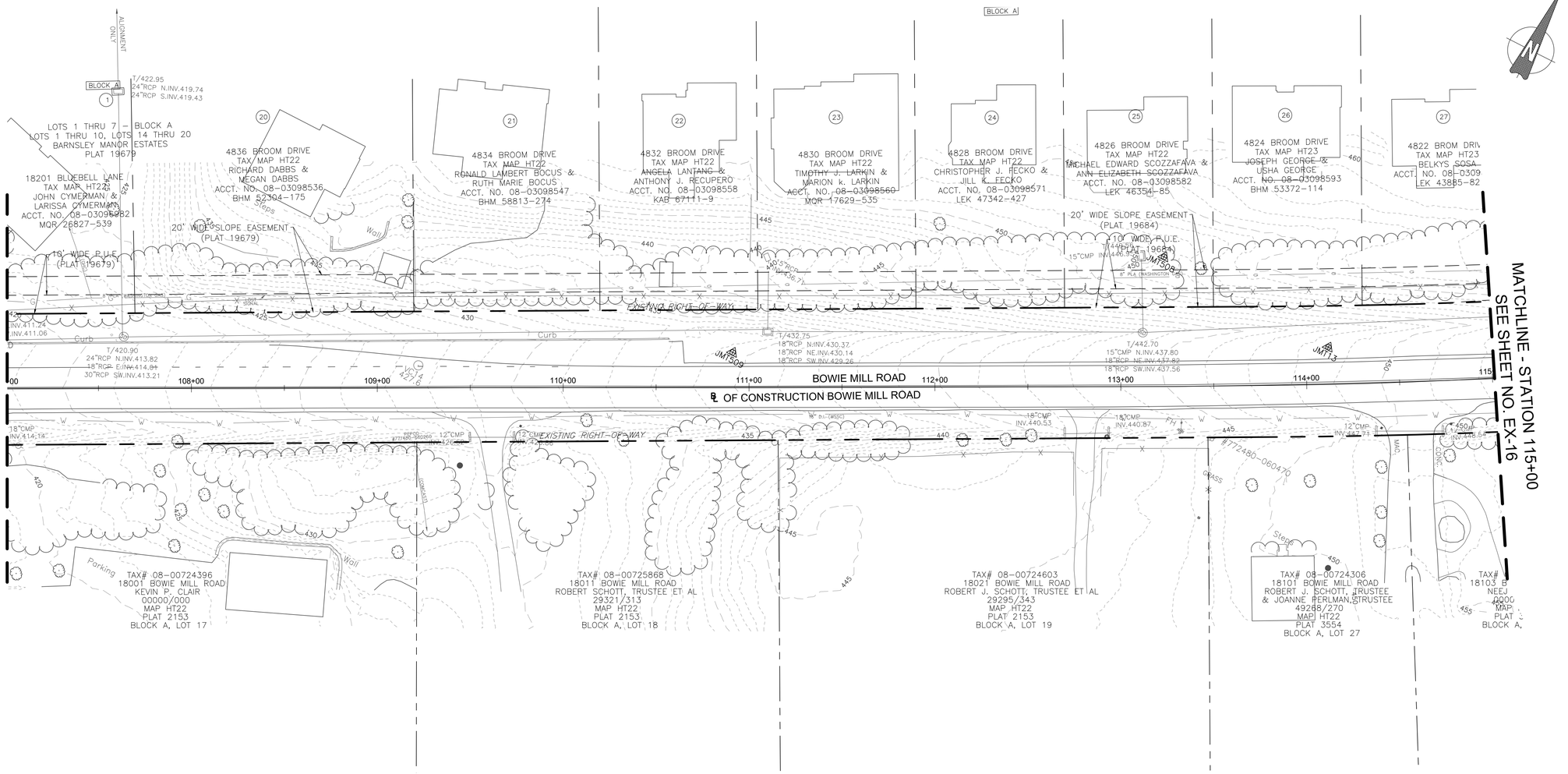
SCALE: 1"=30'

DATE: APRIL 2025

Project No. : 502108

Sheet 17 of 393

FILE NAME: C:\pwworking\jmt\d0642115\pHD_Bowie Mill Road_Existing.dwg LAYOUT NAME: EX-14 PLOTTED: Monday, April 07, 2025 - 2:02pm USER: AHavener



SURVEY TRAVERSE POINT COORDINATES				
POINT	NORTHING	EASTING	ELEVATION	DESCRIPTION
JMT13	541281.9845	1284516.9110	448.30	R&C
JMT508	541285.1798	1284416.0880	450.78	R&C
JMT509	541134.1322	1284232.6180	434.20	R&C

90% DESIGN
NOT FOR CONSTRUCTION

NO.	REVISION	DATE	BY

MONTGOMERY COUNTY
DEPARTMENT OF TRANSPORTATION
GAITHERSBURG, MARYLAND

RECOMMENDED FOR APPROVAL

Chief, Design Section — Date

APPROVED

Chief, Division of Transportation Engineering — Date

Designed by: ADH Drawn by: TMB Checked by: JJR

EX-15
EXISTING CONDITIONS PLAN
BOWIE MILL ROAD BIKEWAY

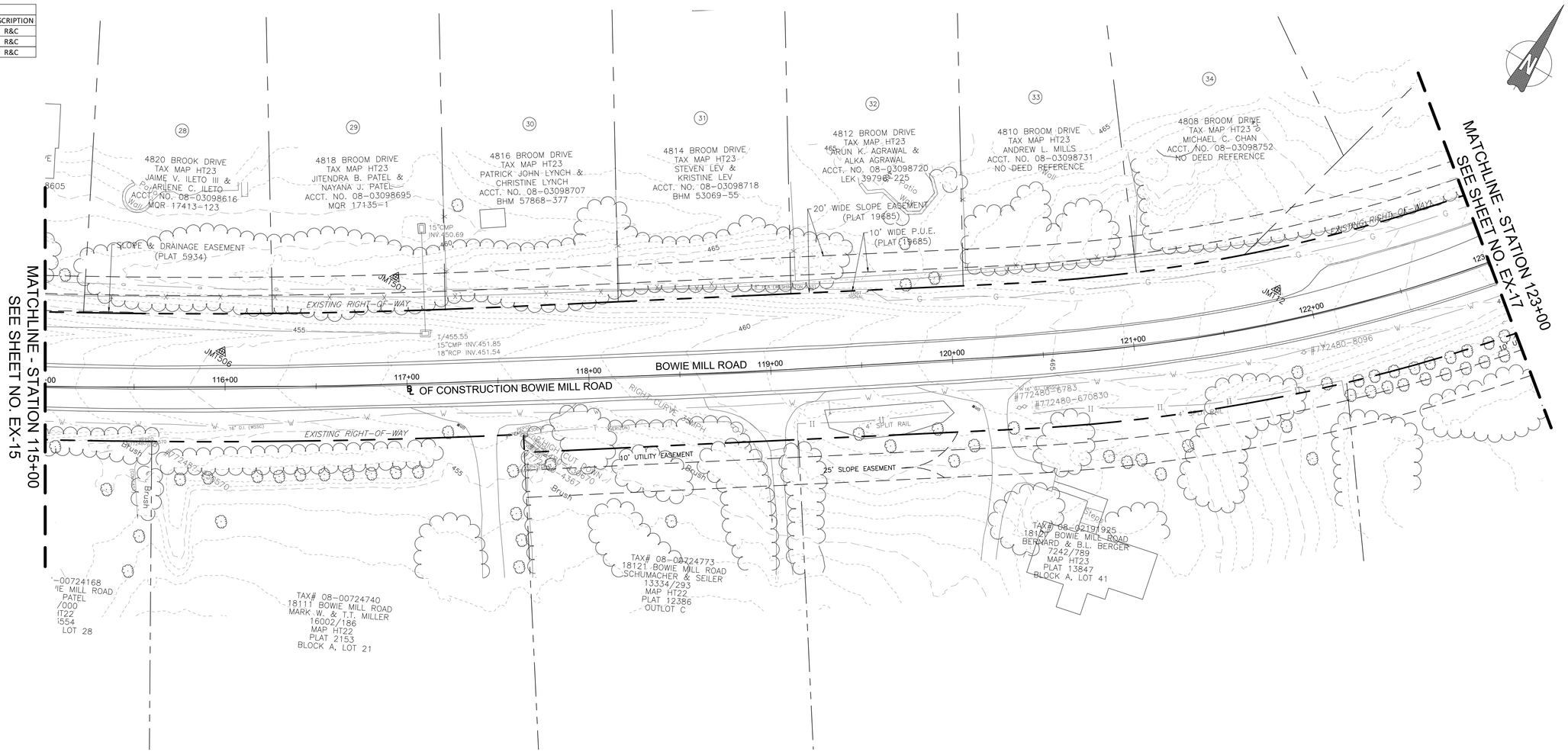
M-NCPPC PERMIT NO. MR2023016 SHA TRACKING NO. 24APMO039XX

0 30' 60'
SCALE: 1"=30'

DATE: APRIL 2025

Project No. : 502108 Sheet 18 of 393

SURVEY TRAVERSE POINT COORDINATES				
POINT	NORTHING	EASTING	ELEVATION	DESCRIPTION
JMT12	541698.2735	1285159.6890	467.86	R&C
JMT506	541374.0173	1284677.8370	454.80	R&C
JMT507	541457.8277	1284739.1740	461.73	R&C



90% DESIGN
NOT FOR CONSTRUCTION

NO.	REVISION	DATE	BY

MONTGOMERY COUNTY
DEPARTMENT OF TRANSPORTATION
GAITHERSBURG, MARYLAND

RECOMMENDED FOR APPROVAL

Chief, Design Section — Date

APPROVED

Chief, Division of Transportation Engineering — Date

Designed by: ADH Drawn by: TMB Checked by: JJR

EX-16
EXISTING CONDITIONS PLAN
BOWIE MILL ROAD BIKEWAY

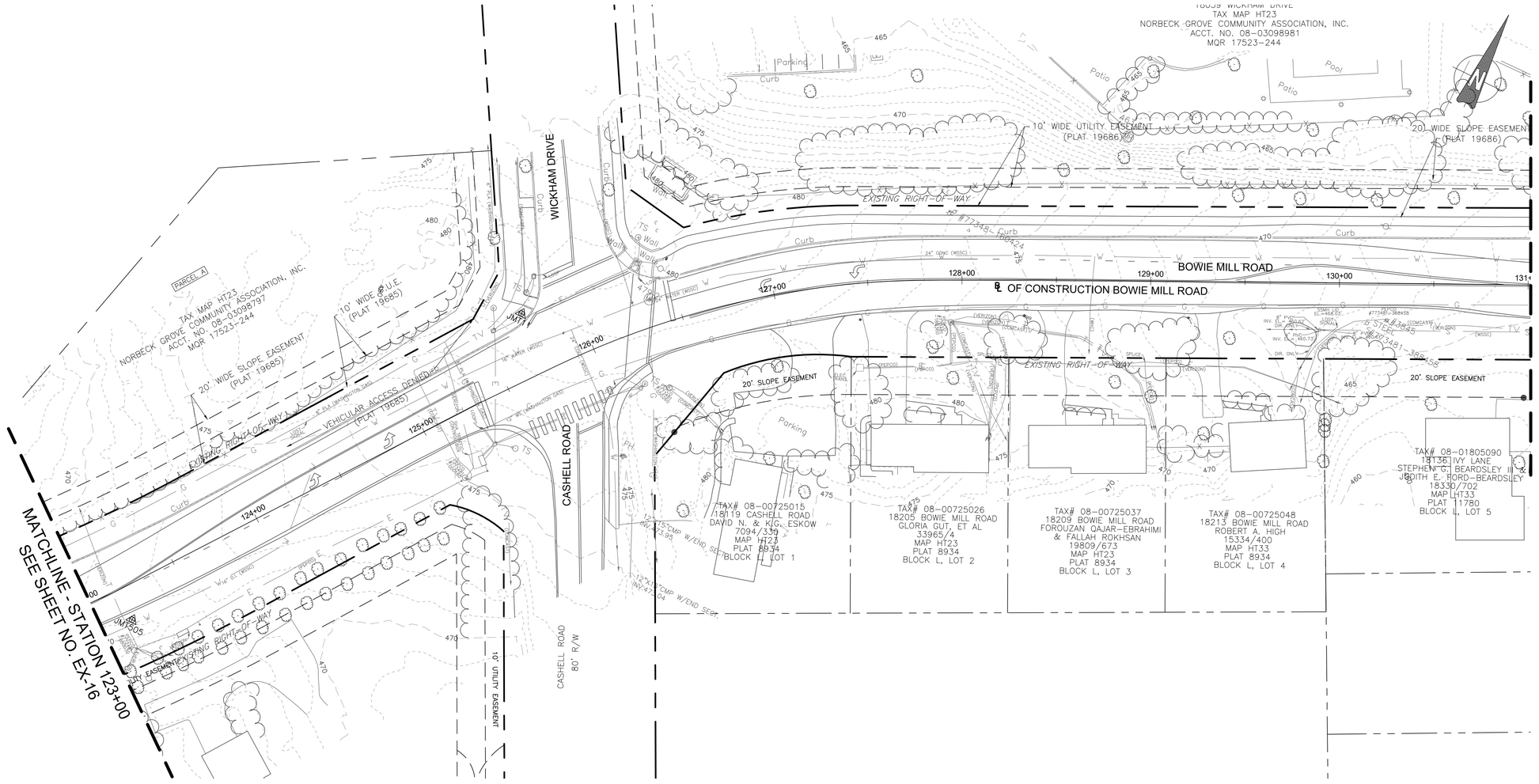
M-NCPPC PERMIT NO. MR2023016 SHA TRACKING NO. 24APMO039XX

0 30' 60'

SCALE: 1"=30' DATE: APRIL 2025

Project No. : 502108 Sheet 19 of 393

FILE NAME: C:\pwworking\jmt\d0642115\pHD_Bowie Mill Road_Existing.dwg LAYOUT NAME: EX-16 PLOTTED: Monday, April 07, 2025 - 2:03pm USER: AHavener



SURVEY TRAVERSE POINT COORDINATES				
POINT	NORTHING	EASTING	ELEVATION	DESCRIPTION
JMT11	542008.6472	1285390.5110	479.28	R&C
JMT505	541772.4547	1285275.9800	471.19	R&C

90% DESIGN
NOT FOR CONSTRUCTION

NO.	REVISION	DATE	BY

MONTGOMERY COUNTY
DEPARTMENT OF TRANSPORTATION
GAITHERSBURG, MARYLAND

RECOMMENDED FOR APPROVAL

Chief, Design Section — Date

APPROVED

Chief, Division of Transportation Engineering — Date

Designed by: ADH Drawn by: TMB Checked by: JJR

EX-17
EXISTING CONDITIONS PLAN
BOWIE MILL ROAD
BIKEWAY

M-NCPPC PERMIT NO. MR2023016 SHA TRACKING NO. 24APMO039XX

0 30' 60'
SCALE: 1"=30'

DATE: APRIL 2025

Project No. : 502108 Sheet 20 of 393

FILE NAME: C:\pwworking\jmt\d0642115\pHD_Bowie Mill Road_Existing.dwg LAYOUT NAME: EX-17 PLOTTED: Monday, April 07, 2025 - 2:03pm USER: AHavener

MATCHLINE - STATION 131+00
SEE SHEET NO. EX-17

MATCHLINE - STATION 139+00
SEE SHEET NO. EX-19

BOWIE MILL ROAD

℄ OF CONSTRUCTION BOWIE MILL ROAD

BOWIE MILL ROAD

BRIGHTWOOD ROAD

IVY LANE

EXISTING RIGHT-OF-WAY

TAX MAP HT23 PARCEL P292
POTOMAC ELECTRIC POWER COMPANY
ACCT. NO. 08-00717152
CKW 3438-446

PLAT FOUR
BRIARS ACRES
PLAT 11821

4733 BRIGHTWOOD ROAD
TAX MAP HT33
JOSE ROBERTO ESCOBAR &
NERY ESTHER ESCOBAR
ACCT. NO. 08-01809100
BHM 55682-147

4732 BRIGHTWOOD ROAD
TAX MAP HT33
EMILIANO N. SANTOS, JR. &
JOCELYN S. SANTOS
ACCT. NO. 08-01808834
MQR 17587-693

20' WIDE SLOPE EASEMENT
(PLAT 11821)

10' WIDE UTILITY EASEMENT
(PLAT 11821)

20' SLOPE EASEMENT

15' UTILITY & SLOPE EASEMENT

20' WSSC EASEMENT FOR SEWER
L. 5503 F. 293 PART TWO

TAX# 08-01805000
18141 IVY LANE
VAUGHN O. & J.P. WILLIAMS
70196/794
MAP HT33
PLAT 11780
BLOCK K, LOT 1

TAX# 08-00717083
MAP HT33
PARCEL 870
POTOMAC ELECTRIC POWER COMPANY
3397/296

TAX# 08-03712384
OLNEY SPRINGS COMMUNITY ASSOCIATION, INC.
49452/356
MAP HT33
PLAT 24515
PARCEL S

TAX# 08-03712373
OLNEY SPRINGS COMMUNITY ASSOCIATION, INC.
49452/356
MAP HT33
PLAT 24515
PARCEL R

Tennis Court

SURVEY TRAVERSE POINT COORDINATES				
POINT	NORTHING	EASTING	ELEVATION	DESCRIPTION
JMT9	542507.3562	1286422.7600	459.14	R&C
JMT10	542300.6513	1285905.8320	464.24	R&C

90% DESIGN
NOT FOR CONSTRUCTION

NO.	REVISION	DATE	BY

MONTGOMERY COUNTY
DEPARTMENT OF TRANSPORTATION
GAITHERSBURG, MARYLAND

RECOMMENDED FOR APPROVAL

Chief, Design Section — Date

APPROVED

Chief, Division of Transportation Engineering — Date

Designed by: ADH Drawn by: TMB Checked by: JJR

EX-18
EXISTING CONDITIONS PLAN
BOWIE MILL ROAD BIKEWAY

M-NCPPC PERMIT NO. MR2023016 SHA TRACKING NO. 24APMO039XX

0 30' 60'

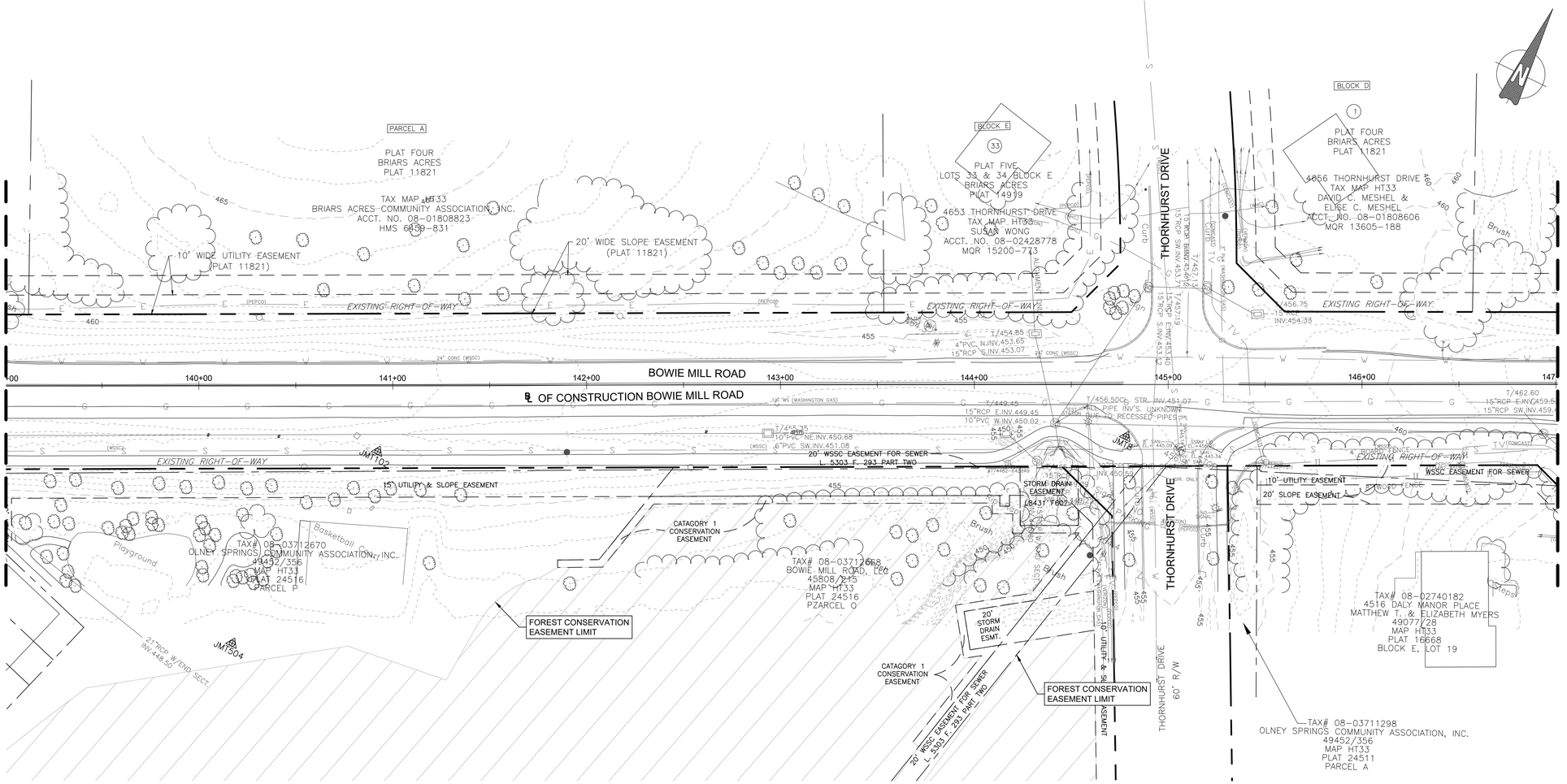
SCALE: 1"=30'

DATE: APRIL 2025

Project No. : 502108

Sheet 21 of 393

FILE NAME: C:\pwworking\jmt\d0642115\pHD_Bowie Mill Road_Existing.dwg LAYOUT NAME: EX-18 PLOTTED: Monday, April 07, 2025 - 2:03pm USER: AHavener



SURVEY TRAVERSE POINT COORDINATES				
POINT	NORTHING	EASTING	ELEVATION	DESCRIPTION
JMT8	542836.4060	1287113.6280	456.85	R&C
JMT102	542660.6174	1286769.9200	459.06	R&C
JMT504	542538.7596	1286745.7690	449.84	R&C

90% DESIGN
NOT FOR CONSTRUCTION

NO.	REVISION	DATE	BY

MONTGOMERY COUNTY
DEPARTMENT OF TRANSPORTATION
GAITHERSBURG, MARYLAND

RECOMMENDED FOR APPROVAL

Chief, Design Section — Date

APPROVED

Chief, Division of Transportation Engineering — Date

Designed by: ADH Drawn by: TMB Checked by: JJR

EX-19
EXISTING CONDITIONS PLAN
BOWIE MILL ROAD BIKEWAY

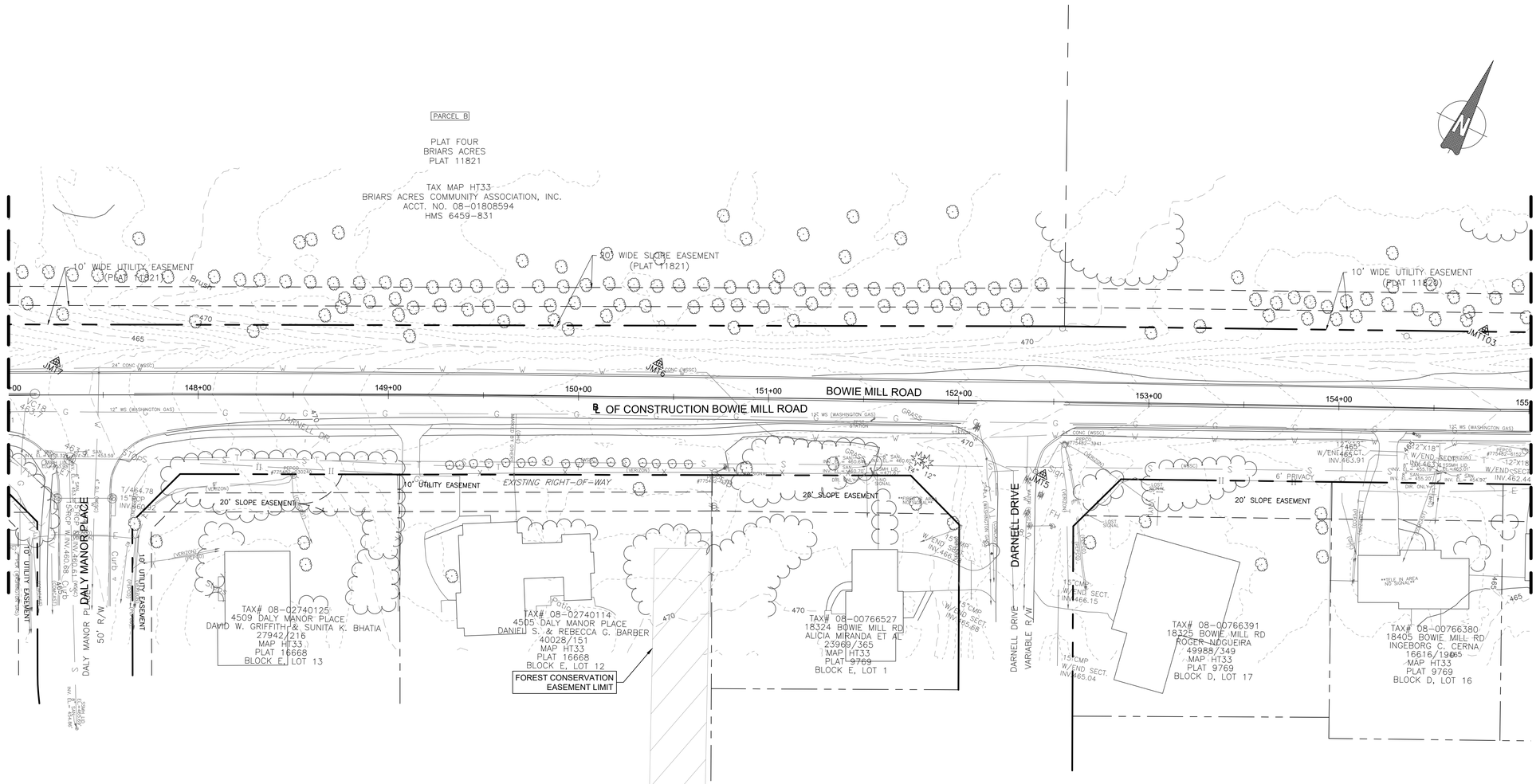
M-NCPPC PERMIT NO. MR2023016 SHA TRACKING NO. 24APMO039XX

0 30' 60'

SCALE: 1"=30' DATE: APRIL 2025

Project No. : 502108 Sheet 22 of 393

FILE NAME: C:\pwworking\jmt\d0642115\pHD_Bowie Mill Road_Existing.dwg LAYOUT NAME: EX-19 PLOTTED: Monday, April 07, 2025 - 2:04pm USER: AHavener



SURVEY TRAVERSE POINT COORDINATES				
POINT	NORTHING	EASTING	ELEVATION	DESCRIPTION
JMT5	543158.2888	1287808.9040	468.94	R&C
JMT6	543122.6173	1287601.8350	472.34	R&C
JMT7	542984.5556	1287316.3190	463.36	R&C
JMT103	543328.3554	1287984.6610	467.23	R&C

90% DESIGN
NOT FOR CONSTRUCTION

NO.	REVISION	DATE	BY

MONTGOMERY COUNTY
DEPARTMENT OF TRANSPORTATION
GAITHERSBURG, MARYLAND

RECOMMENDED FOR APPROVAL

Chief, Design Section — Date

APPROVED

Chief, Division of Transportation Engineering — Date

Designed by: ADH Drawn by: TMB Checked by: JJR

EX-20
EXISTING CONDITIONS PLAN
BOWIE MILL ROAD BIKEWAY

M-NCPPC PERMIT NO. MR2023016 SHA TRACKING NO. 24APMO039XX

0 30' 60'

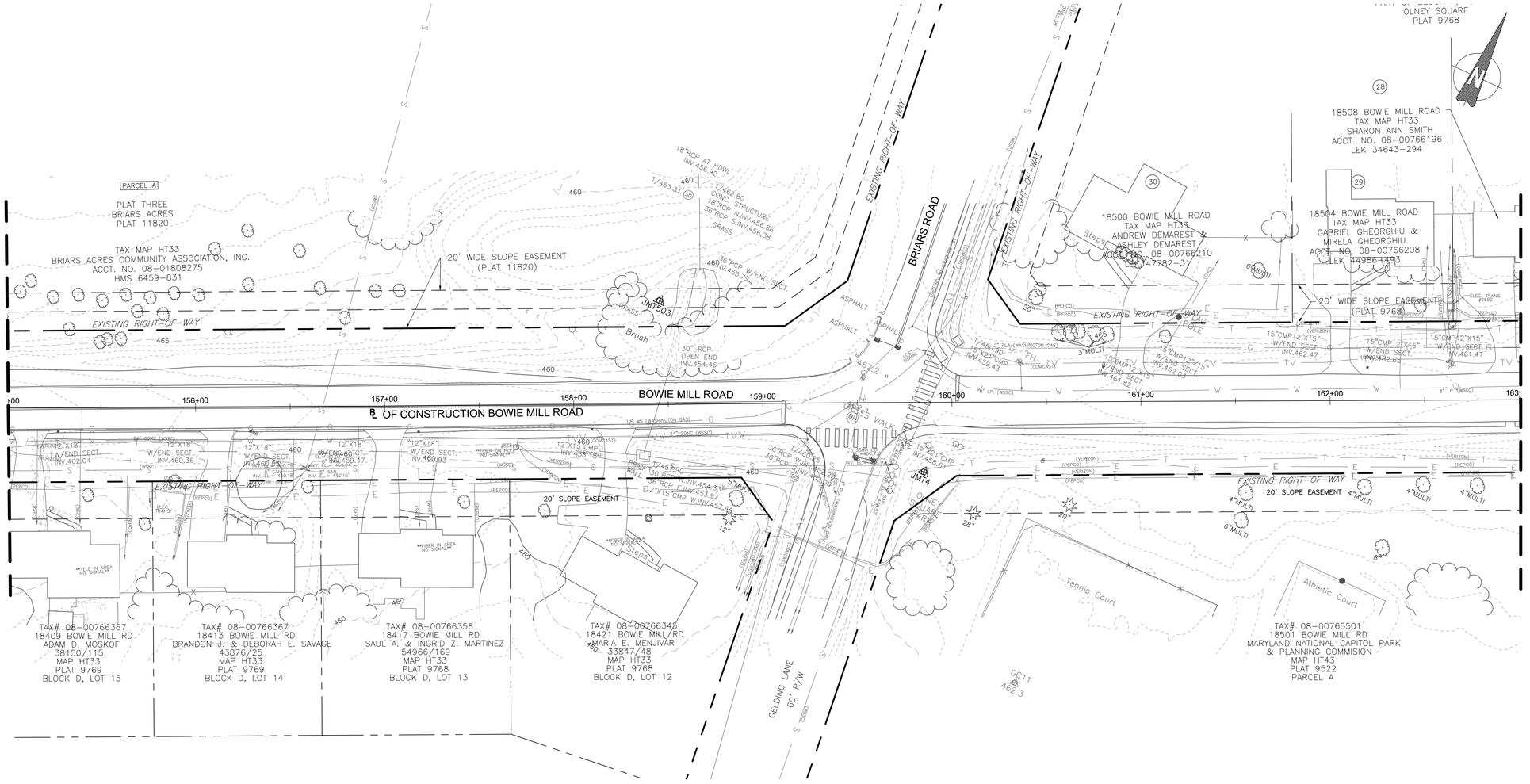
SCALE: 1"=30'

DATE: APRIL 2025

Project No. : 502108

Sheet 23 of 393

FILE NAME: C:\pwworking\jmt\d0642115\pHD_Bowie Mill Road_Existing.dwg LAYOUT NAME: EX-20 PLOTTED: Monday, April 07, 2025 - 2:04pm USER: AHavener



SURVEY TRAVERSE POINT COORDINATES				
POINT	NORTHING	EASTING	ELEVATION	DESCRIPTION
JMT4	543474.0741	1288478.3390	462.31	R&C
JMT503	543497.5870	1288313.4610	459.08	R&C

90% DESIGN
NOT FOR CONSTRUCTION

NO.	REVISION	DATE	BY

MONTGOMERY COUNTY
DEPARTMENT OF TRANSPORTATION
GAITHERSBURG, MARYLAND

RECOMMENDED FOR APPROVAL

Chief, Design Section — Date

APPROVED

Chief, Division of Transportation Engineering — Date

Designed by: ADH Drawn by: TMB Checked by: JJR

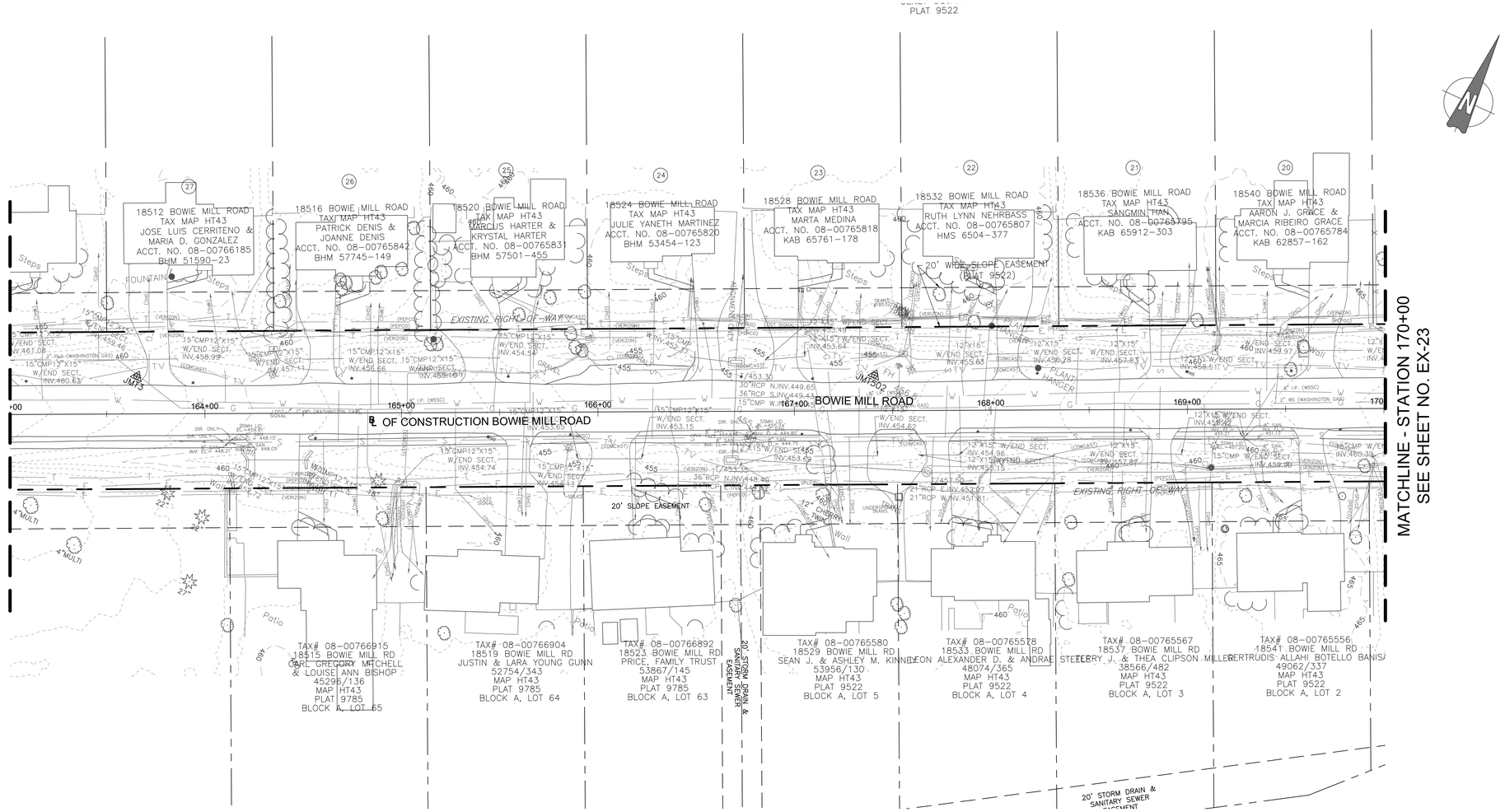
EX-21
EXISTING CONDITIONS PLAN
BOWIE MILL ROAD
BIKEWAY

M-NCPPC PERMIT NO. MR2023016 SHA TRACKING NO. 24APMO039XX

0 30' 60'

SCALE: 1"=30' DATE: APRIL 2025

Project No. : 502108 Sheet 24 of 393



SURVEY TRAVERSE POINT COORDINATES				
POINT	NORTHING	EASTING	ELEVATION	DESCRIPTION
JMT3	543686.0184	1288799.1150	461.26	R&C
JMT502	543844.3705	1289139.4960	455.97	R&C

90% DESIGN
NOT FOR CONSTRUCTION

NO.	REVISION	DATE	BY

MONTGOMERY COUNTY
DEPARTMENT OF TRANSPORTATION
GAITHERSBURG, MARYLAND

RECOMMENDED FOR APPROVAL

Chief, Design Section — Date

APPROVED

Chief, Division of Transportation Engineering — Date

Designed by: ADH Drawn by: TMB Checked by: JJR

EX-22
EXISTING CONDITIONS PLAN
BOWIE MILL ROAD BIKEWAY

M-NCPPC PERMIT NO. MR2023016 SHA TRACKING NO. 24APMO039XX

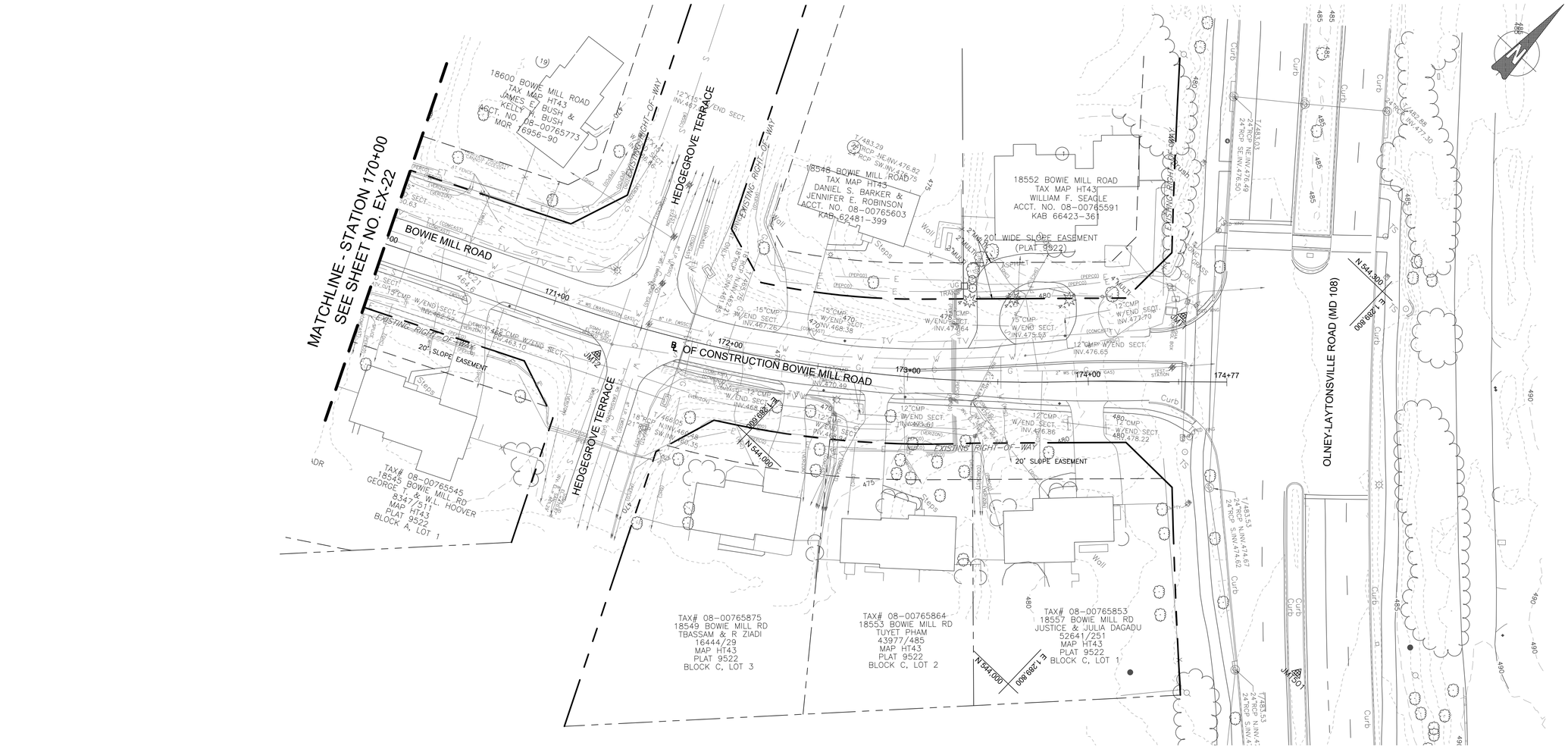
0 30' 60'
SCALE: 1"=30'

DATE: APRIL 2025

Project No. : 502108

Sheet 25 of 393

FILE NAME: C:\pwworking\jmt\d0642115\pHD_Bowie Mill Road_Existing.dwg LAYOUT NAME: EX-22 PLOTTED: Monday, April 07, 2025 - 2:04pm USER: AHavener



SURVEY TRAVERSE POINT COORDINATES				
POINT	NORTHING	EASTING	ELEVATION	DESCRIPTION
JMT1	544214.0493	1289729.7470	483.07	R&C
JMT2	543974.9673	1289509.7110	466.20	R&C
JMT501	544114.8644	1289911.5880	483.55	R&C

90% DESIGN
NOT FOR CONSTRUCTION

NO.	REVISION	DATE	BY

MONTGOMERY COUNTY
DEPARTMENT OF TRANSPORTATION
GAITHERSBURG, MARYLAND

RECOMMENDED FOR APPROVAL

Chief, Design Section — Date

APPROVED

Chief, Division of Transportation Engineering — Date

Designed by: ADH Drawn by: TMB Checked by: JJR

EX-23
EXISTING CONDITIONS PLAN
BOWIE MILL ROAD BIKEWAY

M-NCPPC PERMIT NO. MR2023016 SHA TRACKING NO. 24APMO039XX

0 30' 60'

SCALE: 1"=30' DATE: APRIL 2025

Project No. : 502108 Sheet 26 of 393

FILE NAME: C:\pwworking\jmt\d0642115\pHD_Bowie Mill Road_Existing.dwg LAYOUT NAME: EX-23 PLOTTED: Monday, April 07, 2025 - 2:05pm USER: AHavener

NOTES:

1. BASELINE OF CONSTRUCTION IS SET AT EXISTING ROADWAY CENTERLINES.
2. SEPARATE TRAIL ALIGNMENTS AND PROFILES ARE PROVIDED BECAUSE SHARED USE PATH ALIGNMENT DOES NOT PARALLEL ROADWAY BASELINE.

BL OF CONSTRUCTION - MUNCASTER MILL ROAD

#	INDEX	START STATION	END STATION	LENGTH	RADIUS	LINE / CHORD DIRECTION	START POINT	END POINT
L1		200+00.00	200+92.65	92.65		N35° 39' 14.93"W	N: 533,861.2888, E: 1,277,947.5049	N: 533,936.5679, E: 1,277,893.5027
L2		200+92.65	207+31.27	638.62		N35° 51' 19.51"W	N: 533,936.5679, E: 1,277,893.5027	N: 534,454.1688, E: 1,277,519.4356
C1		207+31.27	208+64.65	133.38	1556.11	N38° 18' 39.36"W	N: 534,454.1688, E: 1,277,519.4356	N: 534,558.7945, E: 1,277,436.7747
L3		208+64.65	208+71.35	6.70		N40° 45' 59.21"W	N: 534,558.7945, E: 1,277,436.7747	N: 534,563.8710, E: 1,277,432.3980

BL OF CONSTRUCTION - BOWIE MILL ROAD

#	INDEX	START STATION	END STATION	LENGTH	RADIUS	LINE / CHORD DIRECTION	START POINT	END POINT
L4		0+00.00	0+02.23	2.23		N50° 37' 17.35"E	N: 534,403.4356, E: 1,277,556.1002	N: 534,404.8521, E: 1,277,557.8260
C2		0+02.23	2+44.93	242.70	4155.09	N48° 56' 53.42"E	N: 534,404.8521, E: 1,277,557.8260	N: 534,564.2189, E: 1,277,740.8220
L5		2+44.93	2+79.04	34.11		N47° 16' 29.48"E	N: 534,564.2189, E: 1,277,740.8220	N: 534,587.3640, E: 1,277,765.8820
L6		2+79.04	3+04.52	25.47		N45° 49' 36.22"E	N: 534,587.3640, E: 1,277,765.8820	N: 534,605.1137, E: 1,277,784.1514
C3		3+04.52	4+87.73	183.21	760.00	N38° 55' 14.05"E	N: 534,605.1137, E: 1,277,784.1514	N: 534,747.3121, E: 1,277,898.9754
L7		4+87.73	5+17.48	29.75		N32° 00' 51.88"E	N: 534,747.3121, E: 1,277,898.9754	N: 534,772.5410, E: 1,277,914.7490
L8		5+17.48	5+68.83	51.34		N29° 20' 19.50"E	N: 534,772.5410, E: 1,277,914.7490	N: 534,817.2980, E: 1,277,939.9053
C4		5+68.83	6+27.73	58.90	780.00	N27° 10' 31.06"E	N: 534,817.2980, E: 1,277,939.9053	N: 534,869.6880, E: 1,277,966.8015
L9		6+27.73	6+66.32	38.59		N25° 00' 42.61"E	N: 534,869.6880, E: 1,277,966.8015	N: 534,904.6575, E: 1,277,983.1169
L10		6+66.32	7+52.31	85.99		N21° 37' 26.17"E	N: 534,904.6575, E: 1,277,983.1169	N: 534,984.5950, E: 1,278,014.8050
L11		7+52.31	11+89.36	437.05		N21° 05' 55.08"E	N: 534,984.5950, E: 1,278,014.8050	N: 535,392.3490, E: 1,278,172.1330
L12		11+89.36	13+64.96	175.59		N21° 25' 44.22"E	N: 535,392.3490, E: 1,278,172.1330	N: 535,555.8050, E: 1,278,236.2860
L13		13+64.96	15+50.19	185.23		N21° 47' 26.82"E	N: 535,555.8050, E: 1,278,236.2860	N: 535,727.8000, E: 1,278,305.0470
L14		15+50.19	15+50.39	0.21		N22° 37' 32.96"E	N: 535,727.8000, E: 1,278,305.0470	N: 535,727.9910, E: 1,278,305.1266
C5		15+50.39	17+87.36	236.97	2753.56	N20° 09' 37.38"E	N: 535,727.9910, E: 1,278,305.1266	N: 535,950.3747, E: 1,278,386.7733
L15		17+87.36	18+00.18	12.81		N17° 41' 41.80"E	N: 535,950.3747, E: 1,278,386.7733	N: 535,962.5820, E: 1,278,390.6680
L16		18+00.18	18+13.74	13.56		N16° 01' 46.30"E	N: 535,962.5820, E: 1,278,390.6680	N: 535,975.6174, E: 1,278,394.4131
C6		18+13.74	20+37.03	223.29	1108.68	N10° 15' 35.09"E	N: 535,975.6174, E: 1,278,394.4131	N: 536,194.9668, E: 1,278,434.1165
L17		20+37.03	20+56.21	19.18		N04° 29' 23.89"E	N: 536,194.9668, E: 1,278,434.1165	N: 536,214.0880, E: 1,278,435.6180
L18		20+56.21	21+90.21	134.00		N01° 13' 10.44"E	N: 536,214.0880, E: 1,278,435.6180	N: 536,348.0560, E: 1,278,438.4700
L19		21+90.21	28+08.28	618.07		N00° 10' 04.04"E	N: 536,348.0560, E: 1,278,438.4700	N: 536,966.1210, E: 1,278,440.2800
L20		28+08.28	30+61.41	253.13		N00° 27' 04.00"E	N: 536,966.1210, E: 1,278,440.2800	N: 537,219.2480, E: 1,278,442.2730
L21		30+61.41	33+04.00	242.59		N00° 23' 19.23"E	N: 537,219.2480, E: 1,278,442.2730	N: 537,461.8346, E: 1,278,443.9186
L22		33+04.00	34+00.41	96.40		N02° 41' 39.02"E	N: 537,461.8346, E: 1,278,443.9186	N: 537,558.1300, E: 1,278,448.4500
L23		34+00.41	34+61.89	61.48		N04° 33' 54.36"E	N: 537,558.1300, E: 1,278,448.4500	N: 537,619.4165, E: 1,278,453.3434
C7		34+61.89	36+43.80	181.91	1548.73	N07° 55' 47.95"E	N: 537,619.4165, E: 1,278,453.3434	N: 537,799.4827, E: 1,278,478.4257
L24		36+43.80	36+77.72	33.92		N11° 17' 41.54"E	N: 537,799.4827, E: 1,278,478.4257	N: 537,832.7495, E: 1,278,485.0700
L25		36+77.72	36+95.92	18.20		N12° 46' 41.24"E	N: 537,832.7495, E: 1,278,485.0700	N: 537,850.4953, E: 1,278,489.0946
C8		36+95.92	39+46.91	250.99	1752.94	N16° 52' 48.19"E	N: 537,850.4953, E: 1,278,489.0946	N: 538,090.4704, E: 1,278,561.9134
L26		39+46.91	40+03.06	56.15		N20° 58' 55.14"E	N: 538,090.4704, E: 1,278,561.9134	N: 538,142.8940, E: 1,278,582.0180
L27		40+03.06	41+50.22	147.16		N22° 20' 11.89"E	N: 538,142.8940, E: 1,278,582.0180	N: 538,279.0150, E: 1,278,637.9470
L28		41+50.22	42+40.76	90.54		N23° 14' 37.66"E	N: 538,279.0150, E: 1,278,637.9470	N: 538,362.2060, E: 1,278,673.6780
L29		42+40.76	43+10.55	69.79		N24° 48' 00.71"E	N: 538,362.2060, E: 1,278,673.6780	N: 538,425.5580, E: 1,278,702.9510
L30		43+10.55	43+65.38	54.83		N26° 28' 40.21"E	N: 538,425.5580, E: 1,278,702.9510	N: 538,474.6343, E: 1,278,727.3958
C9		43+65.38	44+65.99	100.62	1019.22	N29° 18' 21.39"E	N: 538,474.6343, E: 1,278,727.3958	N: 538,562.3381, E: 1,278,776.6249
L31		44+65.99	45+12.60	46.61		N32° 08' 02.57"E	N: 538,562.3381, E: 1,278,776.6249	N: 538,601.8080, E: 1,278,801.4170
L32		45+12.60	45+88.27	75.67		N33° 25' 58.89"E	N: 538,601.8080, E: 1,278,801.4170	N: 538,664.9580, E: 1,278,843.1090
L33		45+88.27	46+61.28	73.00		N34° 37' 22.20"E	N: 538,664.9580, E: 1,278,843.1090	N: 538,725.0340, E: 1,278,884.5880
L34		46+61.28	55+85.28	924.00		N34° 31' 54.25"E	N: 538,725.0340, E: 1,278,884.5880	N: 539,486.2344, E: 1,279,408.3676
L35		55+85.28	57+06.32	121.05		N34° 32' 54.38"E	N: 539,486.2344, E: 1,279,408.3676	N: 539,585.9344, E: 1,279,477.0137

#	INDEX	START STATION	END STATION	LENGTH	RADIUS	LINE / CHORD DIRECTION	START POINT	END POINT
C10		57+06.32	64+59.62	753.29	575.00	N72° 04' 45.63"E	N: 539,585.9344, E: 1,279,477.0137	N: 539,801.4989, E: 1,280,143.5923
L36		64+59.62	65+48.80	89.19		S70° 23' 23.11"E	N: 539,801.4989, E: 1,280,143.5923	N: 539,771.5660, E: 1,280,227.6060
L37		65+48.80	70+71.99	523.19		S68° 21' 34.55"E	N: 539,771.5660, E: 1,280,227.6060	N: 539,578.6253, E: 1,280,713.9164
L38		70+71.99	71+29.47	57.48		S69° 59' 00.46"E	N: 539,578.6253, E: 1,280,713.9164	N: 539,558.9504, E: 1,280,767.9244
C11		71+29.47	79+50.54	821.07	570.00	N68° 45' 00.19"E	N: 539,558.9504, E: 1,280,767.9244	N: 539,831.4672, E: 1,281,468.7021
L39		79+50.54	80+77.56	127.02		N27° 29' 00.84"E	N: 539,831.4672, E: 1,281,468.7021	N: 539,944.1500, E: 1,281,527.3200
L40		80+77.56	81+16.50	38.95		N28° 28' 52.98"E	N: 539,944.1500, E: 1,281,527.3200	N: 539,978.3831, E: 1,281,545.8927
C12		81+16.50	85+94.65	478.15	565.00	N52° 43' 32.03"E	N: 539,978.3831, E: 1,281,545.8927	N: 540,259.4017, E: 1,281,915.1239
L41		85+94.65	86+67.67	73.02		N76° 58' 11.09"E	N: 540,259.4017, E: 1,281,915.1239	N: 540,275.8650, E: 1,281,986.2630
L42		86+67.67	91+99.81	532.14		N78° 07' 18.21"E	N: 540,275.8650, E: 1,281,986.2630	N: 540,385.3964, E: 1,282,507.0055
L43		91+99.81	94+02.88	203.08		N77° 21' 41.67"E	N: 540,385.3964, E: 1,282,507.0055	N: 540,429.8290, E: 1,282,705.1610
L44		94+02.88	95+07.43	104.55		N75° 54' 23.37"E	N: 540,429.8290, E: 1,282,705.1610	N: 540,455.2864, E: 1,282,806.5599
C13		95+07.43	101+11.47	604.04	2600.00	N69° 15' 03.47"E	N: 540,455.2864, E: 1,282,806.5599	N: 540,668.8007, E: 1,283,370.1499
L45		101+11.47	106+50.95	539.48		N62° 35' 43.57"E	N: 540,668.8007, E: 1,283,370.1499	N: 540,917.1094, E: 1,283,849.0926
C14		106+50.95	106+55.54	4.59	783.00	N62° 45' 48.32"E	N: 540,917.1094, E: 1,283,849.0926	N: 540,919.2107, E: 1,283,853.1749
L46		106+55.54	113+30.10	674.56		N62° 55' 53.08"E	N: 540,919.2107, E: 1,283,853.1749	N: 541,226.1730, E: 1,284,453.8435
L47		113+30.10	113+83.82	53.72		N62° 22' 30.52"E	N: 541,226.1730, E: 1,284,453.8435	N: 541,251.0838, E: 1,284,501.4432
C15		113+83.82	115+30.16	146.34	2652.50	N60° 47' 40.74"E	N: 541,251.0838, E: 1,284,501.4432	N: 541,322.4788, E: 1,284,629.1615
L48		115+30.16	116+63.30	133.14		N59° 12' 50.97"E	N: 541,322.4788, E: 1,284,629.1615	N: 541,390.6220, E: 1,284,743.5370
L49		116+63.30	118+81.80	218.50		N57° 26' 12.18"E	N: 541,390.6220, E: 1,284,743.5370	N: 541,508.2240, E: 1,284,927.6860
L50		118+81.80	120+10.61	128.82		N56° 00' 54.58"E	N: 541,508.2240, E: 1,284,927.6860	N: 541,580.2295, E: 1,285,034.4995
L51		120+10.61	120+38.78	28.17		N56° 27' 17.51"E	N: 541,580.2295, E: 1,285,034.4995	N: 541,595.7960, E: 1,285,057.9778
C16		120+38.78	122+96.42	257.64	887.81	N48° 08' 28.91"E	N: 541,595.7960, E: 1,285,057.9778	N: 541,767.1152, E: 1,285,249.1937
L52		122+96.42	123+14.91	18.49		N39° 49' 40.30"E	N: 541,767.1152, E: 1,285,249.1937	N: 541,781.3160, E: 1,285,261.0370
L53		123+14.91	125+34.13	219.21		N36° 39' 51.68"E	N: 541,781.3160, E: 1,285,261.0370	N: 541,957.1560, E: 1,285,391.9340
L54		125+34.13	125+76.50	42.37		N38° 15' 09.99"E	N: 541,957.1560, E: 1,285,391.9340	N: 541,990.4321, E: 1,285,418.1694
C17		125+76.50	127+84.43	207.93	464.43	N51° 04' 44.41"E	N: 541,990.4321, E: 1,285,418.1694	N: 542,119.9781, E: 1,285,578.5971
L55		127+84.43	128+40.99	56.56		N63° 54' 18.84"E	N: 542,119.9781, E: 1,285,578.5971	N: 542,144.8550, E: 1,285,629.3890
L56		128+40.99	131+77.96	336.96		N64° 40' 14.73"E	N: 542,144.8550, E: 1,285,629.3890	N: 542,289.0147, E: 1,285,933.9588
L57		131+77.96	137+19.02	541.07		N63° 49' 34.83"E	N: 542,289.0147, E: 1,285,933.9588	N: 542,527.6760, E: 1,286,419.5460
L58		137+19.02	149+08.17	1189.14		N63° 59' 39.58"E	N: 542,527.6760, E: 1,286,419.5460	N: 543,049.0681, E: 1,287,488.2897
L59		149+08.17	149+65.80	57.63		N64° 31' 00.64"E	N: 543,049.0681, E: 1,287,488.2897	N: 543,073.8633, E: 1,287,540.3132
C18		149+65.80	155+54.82	589.02	46000.00	N64° 53' 01.23"E	N: 543,073.8633, E: 1,287,540.3132	N: 543,323.8768, E: 1,288,073.6392
L60		155+54.82	155+58.12	3.30		N65° 15' 01.83"E	N: 543,323.8768, E: 1,288,073.6392	N: 543,325.2584, E: 1,288,076.6362
L61		155+58.12	159+58.15	400.03		N64° 43' 45.02"E	N: 543,325.2584, E: 1,288,076.6362	N: 543,496.0294, E: 1,288,438.3816
L62		159+58.15	171+12.02	1153.87		N64° 54' 17.25"E	N: 543,496.0294, E: 1,288,438.3816	N: 543,985.4151, E: 1,289,483.3357
C19		171+12.02	173+89.30	277.28	793.00	N54° 53' 16.41"E	N: 543,985.4151, E: 1,289,483.3357	N: 544,144.0875, E: 1,289,709.0024
L63		173+89.30	174+01.20	11.90		N44° 52' 15.57"E	N: 544,144.0875, E: 1,289,709.0024	N: 544,152.5175, E: 1,289,717.3945
L64		174+01.20	174+76.66	75.47		N46° 43' 03.96"E	N: 544,152.5175, E: 1,289,717.3945	N: 544,204.2573, E: 1,289,772.3336

90% DESIGN
NOT FOR CONSTRUCTION

NO.	REVISION	DATE	BY

MONTGOMERY COUNTY
DEPARTMENT OF TRANSPORTATION
GAITHERSBURG, MARYLAND

RECOMMENDED FOR APPROVAL

Chief, Design Section — Date

APPROVED

Chief, Division of Transportation Engineering — Date

Designed by: ADH Drawn by: TMB Checked by: JJR

GG-01
GRADES AND GEOMETRICS
BOWIE MILL ROAD BIKEWAY

M-NCPPC PERMIT NO. MR2023016 SHA TRACKING NO. 24APMO039XX

0 30' 60'

SCALE: 1"=30'

DATE: APRIL 2025

Project No. : 502108

Sheet 27 of 393

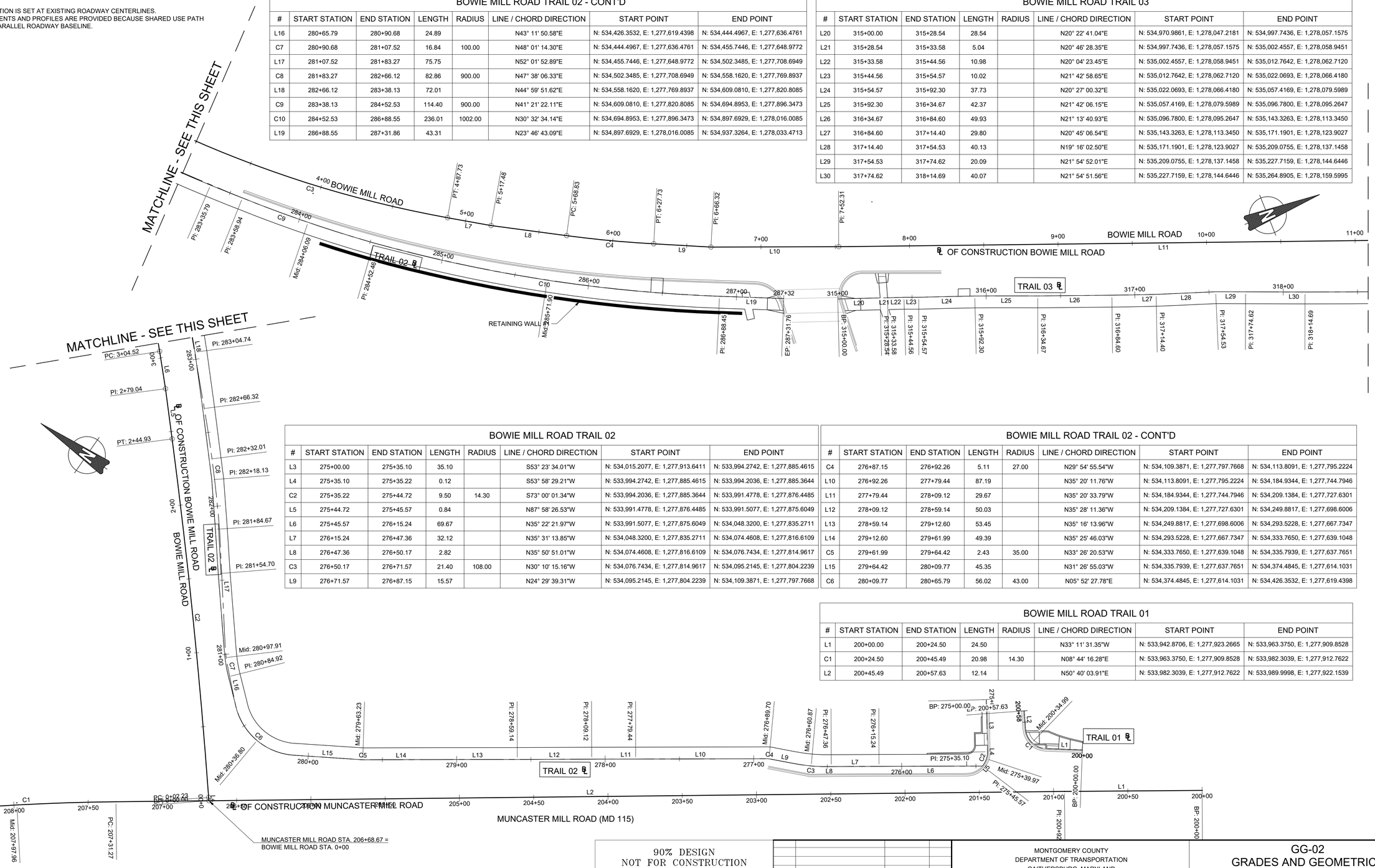
FILE NAME: C:\pwworking\jmt\d0642115\pGG_Bowie Mill Road.dwg LAYOUT NAME: GG-01 PLOTTED: Monday, April 07, 2025 - 2:05pm USER: AHavener

NOTES:

1. BASELINE OF CONSTRUCTION IS SET AT EXISTING ROADWAY CENTERLINES.
2. SEPARATE TRAIL ALIGNMENTS AND PROFILES ARE PROVIDED BECAUSE SHARED USE PATH ALIGNMENT DOES NOT PARALLEL ROADWAY BASELINE.

BOWIE MILL ROAD TRAIL 02 - CONT'D							
#	START STATION	END STATION	LENGTH	RADIUS	LINE / CHORD DIRECTION	START POINT	END POINT
L16	280+65.79	280+90.68	24.89		N43° 11' 50.58"E	N: 534,426.3532, E: 1,277,619.4398	N: 534,444.4967, E: 1,277,636.4761
C7	280+90.68	281+07.52	16.84	100.00	N48° 01' 14.30"E	N: 534,444.4967, E: 1,277,636.4761	N: 534,455.7446, E: 1,277,648.9772
L17	281+07.52	281+83.27	75.75		N52° 01' 52.89"E	N: 534,455.7446, E: 1,277,648.9772	N: 534,502.3485, E: 1,277,708.6949
C8	281+83.27	282+66.12	82.86	900.00	N47° 38' 06.33"E	N: 534,502.3485, E: 1,277,708.6949	N: 534,558.1620, E: 1,277,769.8937
L18	282+66.12	283+38.13	72.01		N44° 59' 51.62"E	N: 534,558.1620, E: 1,277,769.8937	N: 534,609.0810, E: 1,277,820.8085
C9	283+38.13	284+52.53	114.40	900.00	N41° 21' 22.11"E	N: 534,609.0810, E: 1,277,820.8085	N: 534,694.8953, E: 1,277,896.3473
C10	284+52.53	286+88.55	236.01	1002.00	N30° 32' 34.14"E	N: 534,694.8953, E: 1,277,896.3473	N: 534,897.6929, E: 1,278,016.0085
L19	286+88.55	287+31.86	43.31		N23° 46' 43.09"E	N: 534,897.6929, E: 1,278,016.0085	N: 534,937.3264, E: 1,278,033.4713

BOWIE MILL ROAD TRAIL 03							
#	START STATION	END STATION	LENGTH	RADIUS	LINE / CHORD DIRECTION	START POINT	END POINT
L20	315+00.00	315+28.54	28.54		N20° 22' 41.04"E	N: 534,970.9861, E: 1,278,047.2181	N: 534,997.7436, E: 1,278,057.1575
L21	315+28.54	315+33.58	5.04		N20° 46' 28.35"E	N: 534,997.7436, E: 1,278,057.1575	N: 535,002.4557, E: 1,278,058.9451
L22	315+33.58	315+44.56	10.98		N20° 04' 23.45"E	N: 535,002.4557, E: 1,278,058.9451	N: 535,012.7642, E: 1,278,062.7120
L23	315+44.56	315+54.57	10.02		N21° 42' 58.65"E	N: 535,012.7642, E: 1,278,062.7120	N: 535,022.0693, E: 1,278,066.4180
L24	315+54.57	315+92.30	37.73		N20° 27' 00.32"E	N: 535,022.0693, E: 1,278,066.4180	N: 535,057.4169, E: 1,278,079.5989
L25	315+92.30	316+34.67	42.37		N21° 42' 06.15"E	N: 535,057.4169, E: 1,278,079.5989	N: 535,096.7800, E: 1,278,095.2647
L26	316+34.67	316+84.60	49.93		N21° 13' 40.93"E	N: 535,096.7800, E: 1,278,095.2647	N: 535,143.3263, E: 1,278,113.3450
L27	316+84.60	317+14.40	29.80		N20° 45' 06.54"E	N: 535,143.3263, E: 1,278,113.3450	N: 535,171.1901, E: 1,278,123.9027
L28	317+14.40	317+54.53	40.13		N19° 16' 02.50"E	N: 535,171.1901, E: 1,278,123.9027	N: 535,209.0755, E: 1,278,137.1458
L29	317+54.53	317+74.62	20.09		N21° 54' 52.01"E	N: 535,209.0755, E: 1,278,137.1458	N: 535,227.7159, E: 1,278,144.6446
L30	317+74.62	318+14.69	40.07		N21° 54' 51.56"E	N: 535,227.7159, E: 1,278,144.6446	N: 535,264.8905, E: 1,278,159.5995



BOWIE MILL ROAD TRAIL 02							
#	START STATION	END STATION	LENGTH	RADIUS	LINE / CHORD DIRECTION	START POINT	END POINT
L3	275+00.00	275+35.10	35.10		S53° 23' 34.01"W	N: 534,015.2077, E: 1,277,913.6411	N: 533,994.2742, E: 1,277,885.4615
L4	275+35.10	275+35.22	0.12		S53° 58' 29.21"W	N: 533,994.2742, E: 1,277,885.4615	N: 533,994.2036, E: 1,277,885.3644
C2	275+35.22	275+44.72	9.50	14.30	S73° 00' 01.34"W	N: 533,994.2036, E: 1,277,885.3644	N: 533,991.4778, E: 1,277,876.4485
L5	275+44.72	275+45.57	0.84		N87° 58' 26.53"W	N: 533,991.4778, E: 1,277,876.4485	N: 533,991.5077, E: 1,277,875.6049
L6	275+45.57	276+15.24	69.67		N35° 22' 21.97"W	N: 533,991.5077, E: 1,277,875.6049	N: 534,048.3200, E: 1,277,835.2711
L7	276+15.24	276+47.36	32.12		N35° 31' 13.85"W	N: 534,048.3200, E: 1,277,835.2711	N: 534,074.4608, E: 1,277,816.6109
L8	276+47.36	276+50.17	2.82		N35° 50' 51.01"W	N: 534,074.4608, E: 1,277,816.6109	N: 534,076.7434, E: 1,277,814.9617
C3	276+50.17	276+71.57	21.40	108.00	N30° 10' 15.16"W	N: 534,076.7434, E: 1,277,814.9617	N: 534,095.2145, E: 1,277,804.2239
L9	276+71.57	276+87.15	15.57		N24° 29' 39.31"W	N: 534,095.2145, E: 1,277,804.2239	N: 534,109.3871, E: 1,277,797.7668

BOWIE MILL ROAD TRAIL 02 - CONT'D							
#	START STATION	END STATION	LENGTH	RADIUS	LINE / CHORD DIRECTION	START POINT	END POINT
C4	276+87.15	276+92.26	5.11	27.00	N29° 54' 55.54"W	N: 534,109.3871, E: 1,277,797.7668	N: 534,113.8091, E: 1,277,795.2224
L10	276+92.26	277+79.44	87.19		N35° 20' 11.76"W	N: 534,113.8091, E: 1,277,795.2224	N: 534,184.9344, E: 1,277,744.7946
L11	277+79.44	278+09.12	29.67		N35° 20' 33.79"W	N: 534,184.9344, E: 1,277,744.7946	N: 534,209.1384, E: 1,277,727.6301
L12	278+09.12	278+59.14	50.03		N35° 28' 11.36"W	N: 534,209.1384, E: 1,277,727.6301	N: 534,249.8817, E: 1,277,698.6006
L13	278+59.14	279+12.60	53.45		N35° 16' 13.96"W	N: 534,249.8817, E: 1,277,698.6006	N: 534,293.5228, E: 1,277,667.7347
L14	279+12.60	279+61.99	49.39		N35° 25' 46.03"W	N: 534,293.5228, E: 1,277,667.7347	N: 534,333.7650, E: 1,277,639.1048
C5	279+61.99	279+64.42	2.43	35.00	N33° 26' 20.53"W	N: 534,333.7650, E: 1,277,639.1048	N: 534,335.7939, E: 1,277,637.7651
L15	279+64.42	280+09.77	45.35		N31° 26' 55.03"W	N: 534,335.7939, E: 1,277,637.7651	N: 534,374.4845, E: 1,277,614.1031
C6	280+09.77	280+65.79	56.02	43.00	N05° 52' 27.78"E	N: 534,374.4845, E: 1,277,614.1031	N: 534,426.3532, E: 1,277,619.4398

BOWIE MILL ROAD TRAIL 01							
#	START STATION	END STATION	LENGTH	RADIUS	LINE / CHORD DIRECTION	START POINT	END POINT
L1	200+00.00	200+24.50	24.50		N33° 11' 31.35"W	N: 533,942.8706, E: 1,277,923.2665	N: 533,963.3750, E: 1,277,909.8528
C1	200+24.50	200+45.49	20.98	14.30	N08° 44' 16.28"E	N: 533,963.3750, E: 1,277,909.8528	N: 533,982.3039, E: 1,277,912.7622
L2	200+45.49	200+57.63	12.14		N50° 40' 03.91"E	N: 533,982.3039, E: 1,277,912.7622	N: 533,989.9998, E: 1,277,922.1539

90% DESIGN
NOT FOR CONSTRUCTION

NO.	REVISION	DATE	BY

MONTGOMERY COUNTY
DEPARTMENT OF TRANSPORTATION
GAITHERSBURG, MARYLAND

RECOMMENDED FOR APPROVAL

Chief, Design Section — Date

APPROVED

Chief, Division of Transportation Engineering — Date

Designed by: ADH Drawn by: TMB Checked by: JJR

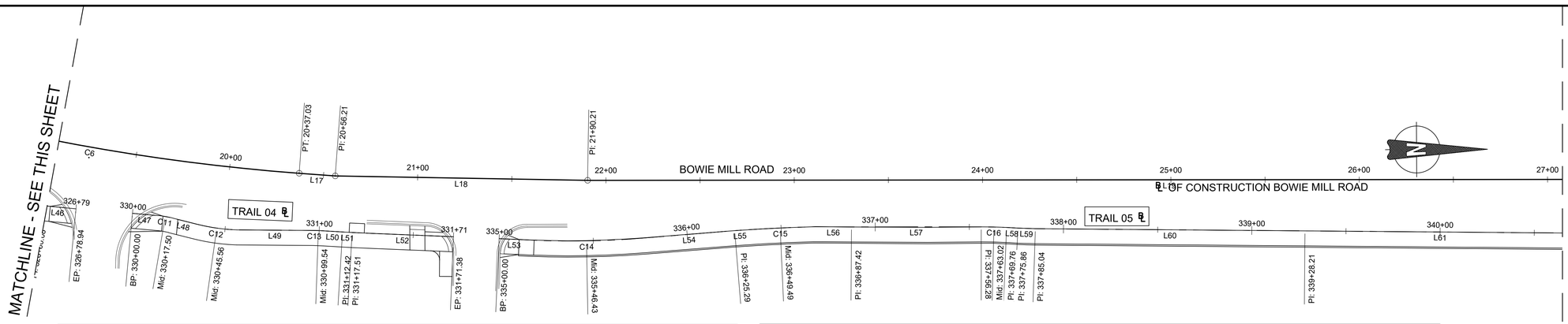
GG-02
GRADES AND GEOMETRICS
BOWIE MILL ROAD BIKEWAY

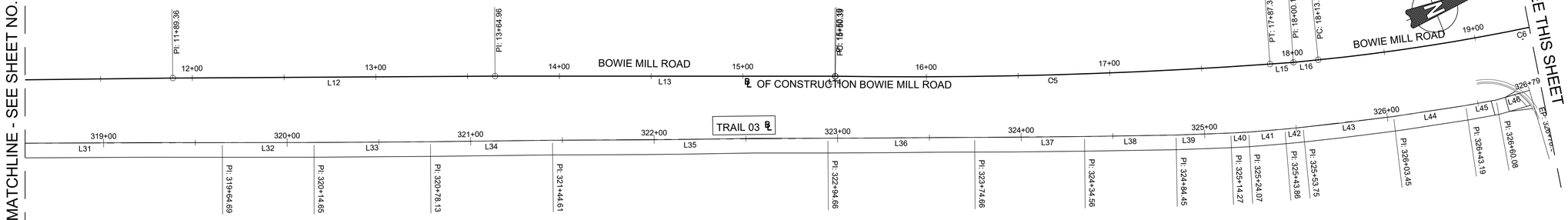
M-NCPPC PERMIT NO. MR2023016 SHA TRACKING NO. 24APMO039XX

0 30' 60'

SCALE: 1"=30' DATE: APRIL 2025

Project No. : 502108 Sheet 28 of 393





BOWIE MILL ROAD TRAIL 04

#	START STATION	END STATION	LENGTH	RADIUS	LINE / CHORD DIRECTION	START POINT	END POINT
L47	330+00.00	330+13.58	13.58		N05° 23' 28.58"E	N: 536,106.3391, E: 1,278,455.0603	N: 536,119.8583, E: 1,278,456.3361
C11	330+13.58	330+21.42	7.84	50.00	N09° 53' 09.09"E	N: 536,119.8583, E: 1,278,456.3361	N: 536,127.5784, E: 1,278,457.6815
L48	330+21.42	330+34.87	13.45		N14° 22' 49.59"E	N: 536,127.5784, E: 1,278,457.6815	N: 536,140.6055, E: 1,278,461.0216
C12	330+34.87	330+56.25	21.38	100.00	N08° 16' 58.03"E	N: 536,140.6055, E: 1,278,461.0216	N: 536,161.7231, E: 1,278,464.0958
L49	330+56.25	330+96.88	40.63		N00° 40' 04.87"E	N: 536,161.7231, E: 1,278,464.0958	N: 536,202.3470, E: 1,278,464.5695
C13	330+96.88	331+02.20	5.32	100.00	N02° 11' 29.13"E	N: 536,202.3470, E: 1,278,464.5695	N: 536,207.6602, E: 1,278,464.7728
L50	331+02.20	331+12.42	10.23		N03° 42' 53.39"E	N: 536,207.6602, E: 1,278,464.7728	N: 536,217.8655, E: 1,278,465.4354
L51	331+12.42	331+17.51	5.09		N03° 28' 21.63"E	N: 536,217.8655, E: 1,278,465.4354	N: 536,222.9452, E: 1,278,465.7437
L52	331+17.51	331+71.38	53.86		N02° 35' 45.14"E	N: 536,222.9452, E: 1,278,465.7437	N: 536,276.7525, E: 1,278,468.1832

BOWIE MILL ROAD TRAIL 05

#	START STATION	END STATION	LENGTH	RADIUS	LINE / CHORD DIRECTION	START POINT	END POINT
L53	335+00.00	335+16.36	16.36		N02° 53' 16.37"E	N: 536,301.0011, E: 1,278,469.2951	N: 536,317.3448, E: 1,278,470.1196
C14	335+16.36	335+76.49	60.13	470.00	N00° 46' 55.20"W	N: 536,317.3448, E: 1,278,470.1196	N: 536,377.4248, E: 1,278,469.2995
L54	335+76.49	336+25.29	48.80		N04° 27' 06.77"W	N: 536,377.4248, E: 1,278,469.2995	N: 536,426.0800, E: 1,278,465.5114
L55	336+25.29	336+30.71	5.42		N03° 37' 29.30"W	N: 536,426.0800, E: 1,278,465.5114	N: 536,431.4853, E: 1,278,465.1690
C15	336+30.71	336+68.27	37.56	900.00	N02° 25' 45.69"W	N: 536,431.4853, E: 1,278,465.1690	N: 536,469.0050, E: 1,278,463.5772
L56	336+68.27	336+87.42	19.15		N00° 37' 34.52"E	N: 536,469.0050, E: 1,278,463.5772	N: 536,488.1545, E: 1,278,463.7865
L57	336+87.42	337+56.28	68.87		N00° 11' 55.17"E	N: 536,488.1545, E: 1,278,463.7865	N: 536,557.0209, E: 1,278,464.0253
C16	337+56.28	337+69.76	13.47	416.00	N01° 34' 29.46"E	N: 536,557.0209, E: 1,278,464.0253	N: 536,570.4897, E: 1,278,464.3956
L58	337+69.76	337+75.86	6.10		N03° 25' 51.39"E	N: 536,570.4897, E: 1,278,464.3956	N: 536,576.5823, E: 1,278,464.7608
L59	337+75.86	337+85.04	9.18		N02° 03' 38.76"E	N: 536,576.5823, E: 1,278,464.7608	N: 536,585.7585, E: 1,278,465.0910
L60	337+85.04	339+28.21	143.17		N00° 41' 26.14"E	N: 536,585.7585, E: 1,278,465.0910	N: 536,728.9143, E: 1,278,466.8166
L61	339+28.21	340+71.38	143.17		N00° 41' 26.14"E	N: 536,728.9143, E: 1,278,466.8166	N: 536,872.0701, E: 1,278,468.5421

BOWIE MILL ROAD TRAIL 03 - CONT'D

#	START STATION	END STATION	LENGTH	RADIUS	LINE / CHORD DIRECTION	START POINT	END POINT
L31	318+14.69	319+64.69	150.00		N21° 35' 22.10"E	N: 535,264.8905, E: 1,278,159.5995	N: 535,404.3645, E: 1,278,214.7915
L32	319+64.69	320+14.65	49.96		N21° 42' 12.67"E	N: 535,404.3645, E: 1,278,214.7915	N: 535,450.7866, E: 1,278,233.2684
L33	320+14.65	320+78.13	63.47		N21° 23' 49.16"E	N: 535,450.7866, E: 1,278,233.2684	N: 535,509.8849, E: 1,278,256.4252
L34	320+78.13	321+44.61	66.49		N21° 04' 51.40"E	N: 535,509.8849, E: 1,278,256.4252	N: 535,571.9223, E: 1,278,280.3397
L35	321+44.61	322+94.66	150.05		N21° 21' 44.60"E	N: 535,571.9223, E: 1,278,280.3397	N: 535,711.6612, E: 1,278,334.9970
L36	322+94.66	323+74.66	80.00		N21° 25' 17.68"E	N: 535,711.6612, E: 1,278,334.9970	N: 535,786.1321, E: 1,278,364.2142
L37	323+74.66	324+34.56	59.90		N21° 19' 54.62"E	N: 535,786.1321, E: 1,278,364.2142	N: 535,841.9320, E: 1,278,386.0054
L38	324+34.56	324+84.45	49.88		N20° 51' 09.82"E	N: 535,841.9320, E: 1,278,386.0054	N: 535,888.5469, E: 1,278,403.7618
L39	324+84.45	325+14.27	29.82		N19° 38' 52.16"E	N: 535,888.5469, E: 1,278,403.7618	N: 535,916.6312, E: 1,278,413.7886
L40	325+14.27	325+24.07	9.81		N18° 40' 13.83"E	N: 535,916.6312, E: 1,278,413.7886	N: 535,925.9208, E: 1,278,416.9277
L41	325+24.07	325+43.86	19.78		N17° 01' 12.98"E	N: 535,925.9208, E: 1,278,416.9277	N: 535,944.8392, E: 1,278,422.7189

BOWIE MILL ROAD TRAIL 03 - CONT'D

#	START STATION	END STATION	LENGTH	RADIUS	LINE / CHORD DIRECTION	START POINT	END POINT
L42	325+43.86	325+53.75	9.89		N16° 08' 45.88"E	N: 535,944.8392, E: 1,278,422.7189	N: 535,954.3374, E: 1,278,425.4687
L43	325+53.75	326+03.45	49.70		N14° 58' 19.28"E	N: 535,954.3374, E: 1,278,425.4687	N: 536,002.3539, E: 1,278,438.3096
L44	326+03.45	326+43.19	39.74		N13° 09' 10.48"E	N: 536,002.3539, E: 1,278,438.3096	N: 536,041.0482, E: 1,278,447.3517
L45	326+43.19	326+60.08	16.90		N11° 25' 04.61"E	N: 536,041.0482, E: 1,278,447.3517	N: 536,057.6106, E: 1,278,450.6967
L46	326+60.08	326+78.94	18.85		N05° 40' 30.85"E	N: 536,057.6106, E: 1,278,450.6967	N: 536,076.3727, E: 1,278,452.5612

NOTES:

1. BASELINE OF CONSTRUCTION IS SET AT EXISTING ROADWAY CENTERLINES.
2. SEPARATE TRAIL ALIGNMENTS AND PROFILES ARE PROVIDED BECAUSE SHARED USE PATH ALIGNMENT DOES NOT PARALLEL ROADWAY BASELINE.

90% DESIGN
NOT FOR CONSTRUCTION

NO.	REVISION	DATE	BY

MONTGOMERY COUNTY
DEPARTMENT OF TRANSPORTATION
GAITHERSBURG, MARYLAND

RECOMMENDED FOR APPROVAL

Chief, Design Section — Date

APPROVED

Chief, Division of Transportation Engineering — Date

Designed by: ADH Drawn by: TMB Checked by: JJR

GG-03
GRADES AND GEOMETRICS
BOWIE MILL ROAD
BIKEWAY

M-NCPPC PERMIT NO. MR2023016 SHA TRACKING NO. 24APMO039XX

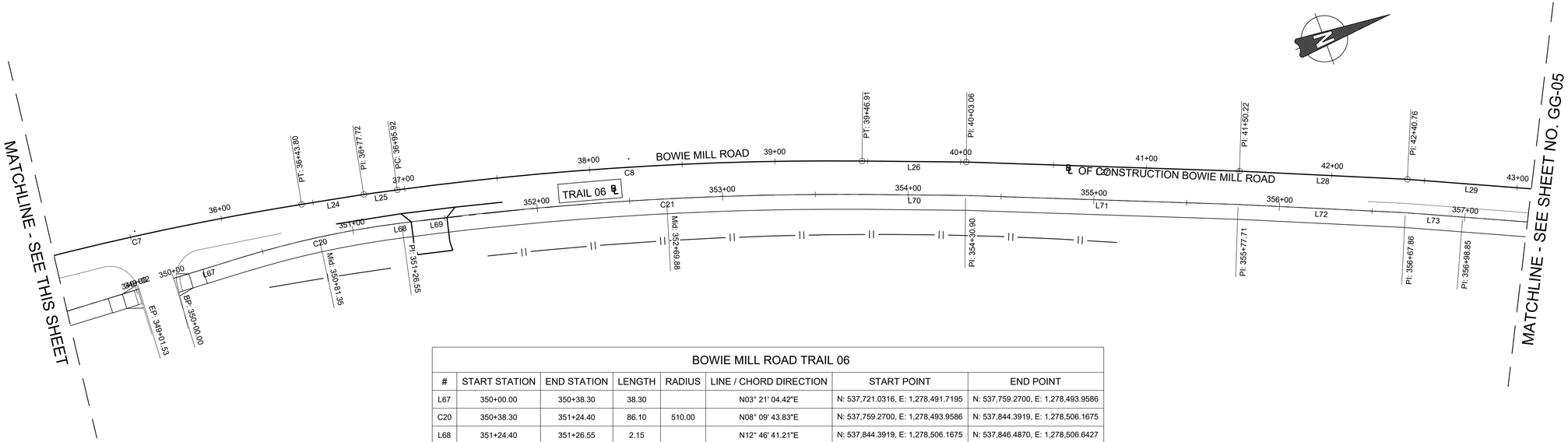
0 30' 60'
SCALE: 1"=30'

DATE: APRIL 2025

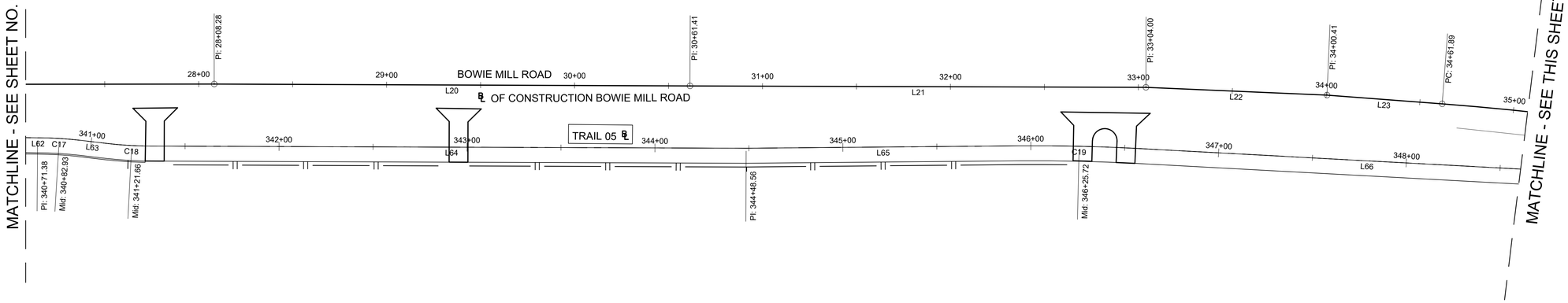
Project No. : 502108 Sheet 29 of 393

NOTES:

1. BASELINE OF CONSTRUCTION IS SET AT EXISTING ROADWAY CENTERLINES.
2. SEPARATE TRAIL ALIGNMENTS AND PROFILES ARE PROVIDED BECAUSE SHARED USE PATH ALIGNMENT DOES NOT PARALLEL ROADWAY BASELINE.



BOWIE MILL ROAD TRAIL 06							
#	START STATION	END STATION	LENGTH	RADIUS	LINE / CHORD DIRECTION	START POINT	END POINT
L67	350+00.00	350+38.30	38.30		N03° 21' 04.42"E	N: 537,721.0316, E: 1,278,491.7195	N: 537,759.2700, E: 1,278,493.9586
C20	350+38.30	351+24.40	86.10	510.00	N08° 09' 43.83"E	N: 537,759.2700, E: 1,278,493.9586	N: 537,844.3919, E: 1,278,506.1675
L68	351+24.40	351+26.55	2.15		N12° 46' 41.21"E	N: 537,844.3919, E: 1,278,506.1675	N: 537,846.4870, E: 1,278,506.6427
L69	351+26.55	351+63.78	37.23		N13° 54' 24.37"E	N: 537,846.4870, E: 1,278,506.6427	N: 537,882.6241, E: 1,278,515.5902
C21	351+63.78	353+75.99	212.22	1730.00	N17° 25' 15.49"E	N: 537,882.6241, E: 1,278,515.5902	N: 538,084.9800, E: 1,278,579.0861
L70	353+75.99	354+30.90	54.91		N20° 58' 55.14"E	N: 538,084.9800, E: 1,278,579.0861	N: 538,136.2500, E: 1,278,598.7483
L71	354+30.90	355+77.71	146.81		N22° 20' 11.89"E	N: 538,136.2500, E: 1,278,598.7483	N: 538,272.0423, E: 1,278,654.5422
L72	355+77.71	356+67.86	90.15		N23° 14' 37.66"E	N: 538,272.0423, E: 1,278,654.5422	N: 538,354.8778, E: 1,278,690.1205
L73	356+67.86	356+98.85	30.98		N24° 48' 00.71"E	N: 538,354.8778, E: 1,278,690.1205	N: 538,383.0037, E: 1,278,703.1167



BOWIE MILL ROAD TRAIL 05 CONT'D							
#	START STATION	END STATION	LENGTH	RADIUS	LINE / CHORD DIRECTION	START POINT	END POINT
L62	340+71.38	340+71.92	0.55		N00° 21' 37.15"E	N: 536,872.0701, E: 1,278,468.5421	N: 536,872.6185, E: 1,278,468.5456
C17	340+71.92	340+93.93	22.00	190.00	N03° 40' 32.21"E	N: 536,872.6185, E: 1,278,468.5456	N: 536,894.5639, E: 1,278,469.9553
L63	340+93.93	341+08.07	14.15		N06° 59' 27.26"E	N: 536,894.5639, E: 1,278,469.9553	N: 536,908.6059, E: 1,278,471.6772
C18	341+08.07	341+35.24	27.16	210.00	N03° 12' 11.11"E	N: 536,908.6059, E: 1,278,471.6772	N: 536,935.7078, E: 1,278,473.1939
L64	341+35.24	344+48.56	313.32		N00° 26' 01.44"E	N: 536,935.7078, E: 1,278,473.1939	N: 537,249.0220, E: 1,278,475.5658
L65	344+48.56	345+94.45	145.89		N00° 16' 53.77"W	N: 537,249.0220, E: 1,278,475.5658	N: 537,394.9086, E: 1,278,474.8487
C19	345+94.45	346+56.98	62.53	1000.00	N01° 30' 35.57"E	N: 537,394.9086, E: 1,278,474.8487	N: 537,457.4112, E: 1,278,476.4962
L66	346+56.98	349+01.53	244.55		N03° 18' 04.91"E	N: 537,457.4112, E: 1,278,476.4962	N: 537,701.5523, E: 1,278,490.5791

90% DESIGN
NOT FOR CONSTRUCTION

NO.	REVISION	DATE	BY

MONTGOMERY COUNTY
DEPARTMENT OF TRANSPORTATION
GAITHERSBURG, MARYLAND

RECOMMENDED FOR APPROVAL

Chief, Design Section — Date

APPROVED

Chief, Division of Transportation Engineering — Date

Designed by: ADH Drawn by: TMB Checked by: JJR

GG-04
GRADES AND GEOMETRICS
BOWIE MILL ROAD BIKEWAY

M-NCPPC PERMIT NO. MR2023016 SHA TRACKING NO. 24APMO039XX

0 30' 60'
SCALE: 1"=30'

DATE: APRIL 2025

Project No. : 502108

Sheet 30 of 393

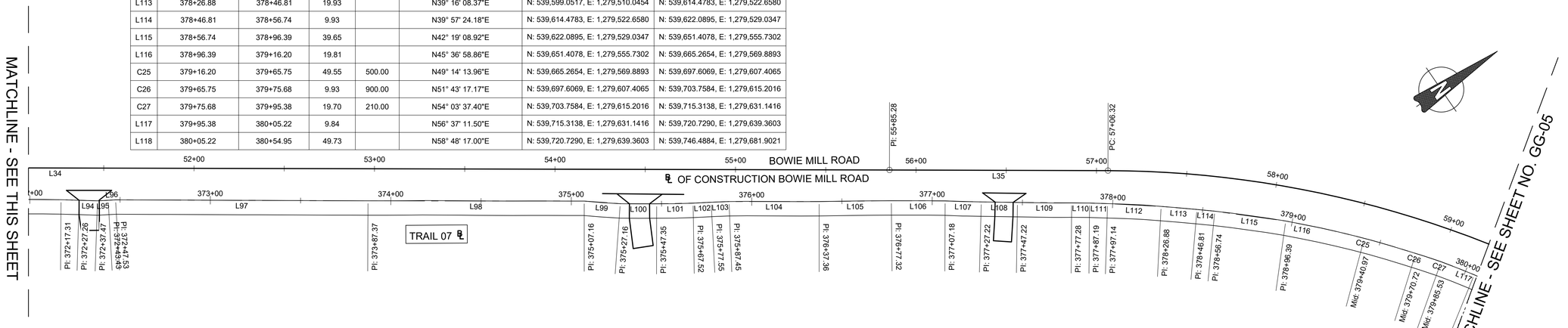
FILE NAME: C:\pwworking\jmt\d0642115\pGG_Bowie Mill Road.dwg LAYOUT NAME: GG-04 PLOTTED: Monday, April 07, 2025 - 2:06pm USER: AHavener

NOTES:

1. BASELINE OF CONSTRUCTION IS SET AT EXISTING ROADWAY CENTERLINES.
2. SEPARATE TRAIL ALIGNMENTS AND PROFILES ARE PROVIDED BECAUSE SHARED USE PATH ALIGNMENT DOES NOT PARALLEL ROADWAY BASELINE.

BOWIE MILL ROAD TRAIL 07 CONT'D

#	START STATION	END STATION	LENGTH	RADIUS	LINE / CHORD DIRECTION	START POINT	END POINT
L112	377+97.14	378+26.88	29.74		N37° 23' 06.11"E	N: 539,575.4227, E: 1,279,491.9894	N: 539,599.0517, E: 1,279,510.0454
L113	378+26.88	378+46.81	19.93		N39° 16' 08.37"E	N: 539,599.0517, E: 1,279,510.0454	N: 539,614.4783, E: 1,279,522.6580
L114	378+46.81	378+56.74	9.93		N39° 57' 24.18"E	N: 539,614.4783, E: 1,279,522.6580	N: 539,622.0895, E: 1,279,529.0347
L115	378+56.74	378+96.39	39.65		N42° 19' 08.92"E	N: 539,622.0895, E: 1,279,529.0347	N: 539,651.4078, E: 1,279,555.7302
L116	378+96.39	379+16.20	19.81		N45° 36' 58.86"E	N: 539,651.4078, E: 1,279,555.7302	N: 539,665.2654, E: 1,279,569.8893
C25	379+16.20	379+65.75	49.55	500.00	N49° 14' 13.96"E	N: 539,665.2654, E: 1,279,569.8893	N: 539,697.6069, E: 1,279,607.4065
C26	379+65.75	379+75.68	9.93	900.00	N51° 43' 17.17"E	N: 539,697.6069, E: 1,279,607.4065	N: 539,703.7584, E: 1,279,615.2016
C27	379+75.68	379+95.38	19.70	210.00	N54° 03' 37.40"E	N: 539,703.7584, E: 1,279,615.2016	N: 539,715.3138, E: 1,279,631.1416
L117	379+95.38	380+05.22	9.84		N56° 37' 11.50"E	N: 539,715.3138, E: 1,279,631.1416	N: 539,720.7290, E: 1,279,639.3603
L118	380+05.22	380+54.95	49.73		N58° 48' 17.00"E	N: 539,720.7290, E: 1,279,639.3603	N: 539,746.4884, E: 1,279,681.9021

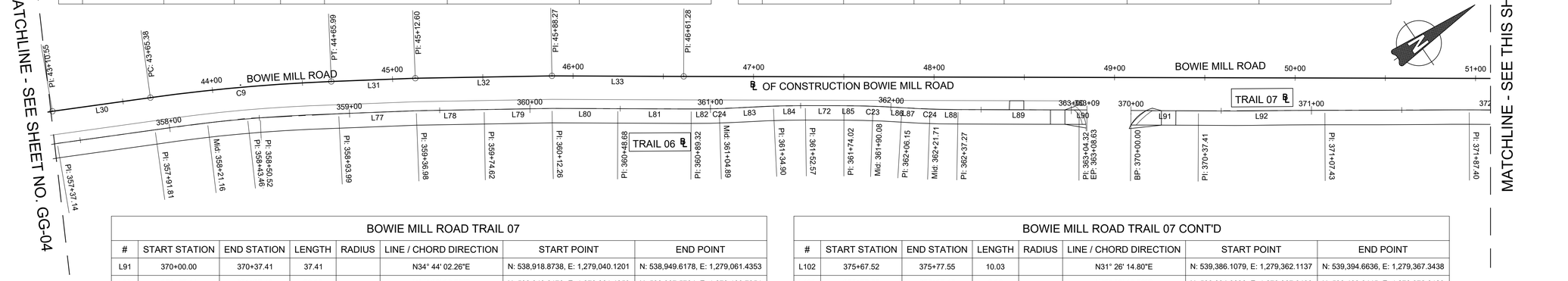


BOWIE MILL ROAD TRAIL 06 CONT'D

#	START STATION	END STATION	LENGTH	RADIUS	LINE / CHORD DIRECTION	START POINT	END POINT
L77	358+93.99	359+36.98	42.99		N32° 08' 02.57"E	N: 538,555.6568, E: 1,278,793.6845	N: 538,592.0610, E: 1,278,816.5510
L78	359+36.98	359+74.62	37.64		N33° 25' 58.89"E	N: 538,592.0610, E: 1,278,816.5510	N: 538,623.4728, E: 1,278,837.2893
L79	359+74.62	360+12.26	37.64		N33° 25' 58.89"E	N: 538,623.4728, E: 1,278,837.2893	N: 538,654.8847, E: 1,278,858.0276
L80	360+12.26	360+48.68	36.42		N34° 37' 22.20"E	N: 538,654.8847, E: 1,278,858.0276	N: 538,684.8517, E: 1,278,878.7180
L81	360+48.68	360+89.32	40.64		N34° 36' 48.09"E	N: 538,684.8517, E: 1,278,878.7180	N: 538,718.3011, E: 1,278,901.8048
L82	360+89.32	361+01.34	12.02		N33° 44' 38.48"E	N: 538,718.3011, E: 1,278,901.8048	N: 538,728.2957, E: 1,278,908.4814
C24	361+01.34	361+08.45	7.11	200.00	N32° 43' 32.78"E	N: 538,728.2957, E: 1,278,908.4814	N: 538,734.2757, E: 1,278,912.3243
L83	361+08.45	361+34.90	26.45		N31° 42' 27.08"E	N: 538,734.2757, E: 1,278,912.3243	N: 538,756.7776, E: 1,278,926.2258
L84	361+34.90	361+52.57	17.68		N33° 32' 05.58"E	N: 538,756.7776, E: 1,278,926.2258	N: 538,771.5113, E: 1,278,935.9908

BOWIE MILL ROAD TRAIL 06 CONT'D

#	START STATION	END STATION	LENGTH	RADIUS	LINE / CHORD DIRECTION	START POINT	END POINT
L72	361+52.57	361+74.02	21.44		N34° 31' 54.25"E	N: 538,771.5113, E: 1,278,935.9908	N: 538,789.1770, E: 1,278,948.1465
L85	361+74.02	361+78.85	4.83		N34° 56' 41.04"E	N: 538,789.1770, E: 1,278,948.1465	N: 538,793.1379, E: 1,278,950.9143
C23	361+78.85	362+01.31	22.46	460.00	N36° 20' 36.24"E	N: 538,793.1379, E: 1,278,950.9143	N: 538,811.2259, E: 1,278,964.2223
L86	362+01.31	362+06.15	4.84		N37° 44' 31.45"E	N: 538,811.2259, E: 1,278,964.2223	N: 538,815.0559, E: 1,278,967.1870
L87	362+06.15	362+13.80	7.65		N37° 14' 59.88"E	N: 538,815.0559, E: 1,278,967.1870	N: 538,821.1474, E: 1,278,971.8191
C24	362+13.80	362+29.62	15.81	500.00	N36° 20' 38.00"E	N: 538,821.1474, E: 1,278,971.8191	N: 538,833.8847, E: 1,278,981.1906
L88	362+29.62	362+37.27	7.65		N35° 26' 16.12"E	N: 538,833.8847, E: 1,278,981.1906	N: 538,840.1197, E: 1,278,985.6277
L89	362+37.27	363+04.32	67.05		N34° 31' 54.25"E	N: 538,840.1197, E: 1,278,985.6277	N: 538,895.3595, E: 1,279,023.6380
L90	363+04.32	363+08.63	4.31		N34° 28' 58.67"E	N: 538,895.3595, E: 1,279,023.6380	N: 538,898.9103, E: 1,279,026.0769



BOWIE MILL ROAD TRAIL 07

#	START STATION	END STATION	LENGTH	RADIUS	LINE / CHORD DIRECTION	START POINT	END POINT
L91	370+00.00	370+37.41	37.41		N34° 44' 02.26"E	N: 538,918.8738, E: 1,279,040.1201	N: 538,949.6178, E: 1,279,061.4353
L92	370+37.41	371+07.43	70.02		N34° 08' 33.78"E	N: 538,949.6178, E: 1,279,061.4353	N: 539,007.5704, E: 1,279,100.7351
L94	372+27.26	372+37.47	10.21		N36° 16' 17.06"E	N: 539,106.3218, E: 1,279,168.6016	N: 539,114.5497, E: 1,279,174.6393
L95	372+37.47	372+43.43	5.96		N31° 11' 35.02"E	N: 539,114.5497, E: 1,279,174.6393	N: 539,119.6505, E: 1,279,177.7276
L96	372+43.43	372+47.53	4.10		N31° 12' 15.90"E	N: 539,119.6505, E: 1,279,177.7276	N: 539,123.1549, E: 1,279,179.8503
L97	372+47.53	373+87.37	139.85		N34° 37' 28.52"E	N: 539,123.1549, E: 1,279,179.8503	N: 539,238.2327, E: 1,279,259.3101
L98	373+87.37	375+07.16	119.79		N34° 27' 15.23"E	N: 539,238.2327, E: 1,279,259.3101	N: 539,337.0079, E: 1,279,327.0803
L99	375+07.16	375+27.16	20.00		N38° 32' 48.53"E	N: 539,337.0079, E: 1,279,327.0803	N: 539,352.6494, E: 1,279,339.5430
L100	375+27.16	375+47.35	20.19		N34° 32' 46.90"E	N: 539,352.6494, E: 1,279,339.5430	N: 539,369.2832, E: 1,279,350.9949
L101	375+47.35	375+67.52	20.17		N33° 27' 33.25"E	N: 539,369.2832, E: 1,279,350.9949	N: 539,386.1079, E: 1,279,362.1137

BOWIE MILL ROAD TRAIL 07 CONT'D

#	START STATION	END STATION	LENGTH	RADIUS	LINE / CHORD DIRECTION	START POINT	END POINT
L102	375+67.52	375+77.55	10.03		N31° 26' 14.80"E	N: 539,386.1079, E: 1,279,362.1137	N: 539,394.6636, E: 1,279,367.3438
L103	375+77.55	375+87.45	9.90		N32° 09' 10.76"E	N: 539,394.6636, E: 1,279,367.3438	N: 539,403.0445, E: 1,279,372.6120
L104	375+87.45	376+37.36	49.91		N34° 21' 27.74"E	N: 539,403.0445, E: 1,279,372.6120	N: 539,444.2483, E: 1,279,400.7801
L105	376+37.36	376+77.32	39.96		N33° 45' 05.14"E	N: 539,444.2483, E: 1,279,400.7801	N: 539,477.4738, E: 1,279,422.9819
L106	376+77.32	377+07.18	29.86		N34° 40' 05.53"E	N: 539,477.4738, E: 1,279,422.9819	N: 539,502.0330, E: 1,279,439.9674
L107	377+07.18	377+27.22	20.04		N35° 57' 10.44"E	N: 539,502.0330, E: 1,279,439.9674	N: 539,518.2528, E: 1,279,451.7313
L108	377+27.22	377+47.22	20.01		N35° 12' 57.39"E	N: 539,518.2528, E: 1,279,451.7313	N: 539,534.5984, E: 1,279,463.2687
L109	377+47.22	377+77.28	30.05		N34° 52' 56.47"E	N: 539,534.5984, E: 1,279,463.2687	N: 539,559.2519, E: 1,279,480.4559
L110	377+77.28	377+87.19	9.92		N34° 54' 10.16"E	N: 539,559.2519, E: 1,279,480.4559	N: 539,567.3846, E: 1,279,486.1300
L111	377+87.19	377+97.14	9.95		N36° 05' 26.04"E	N: 539,567.3846, E: 1,279,486.1300	N: 539,575.4227, E: 1,279,491.9894

90% DESIGN
NOT FOR CONSTRUCTION

NO.	REVISION	DATE	BY

MONTGOMERY COUNTY
DEPARTMENT OF TRANSPORTATION
GAITHERSBURG, MARYLAND

RECOMMENDED FOR APPROVAL

Chief, Design Section — Date

APPROVED

Chief, Division of Transportation Engineering — Date

Designed by: ADH Drawn by: TMB Checked by: JJR

GG-05
GRADES AND GEOMETRICS
BOWIE MILL ROAD
BIKEWAY

M-NCPPC PERMIT NO. MR2023016 SHA TRACKING NO. 24APMO039XX

0 30' 60'
SCALE: 1"=30'

DATE: APRIL 2025

Project No. : 502108

Sheet 31 of 393

FILE NAME: C:\pwworking\jmt\d0642115\pGG_Bowie Mill Road.dwg LAYOUT NAME: GG-05 PLOTTED: Monday, April 07, 2025 - 2:07pm USER: AHavener

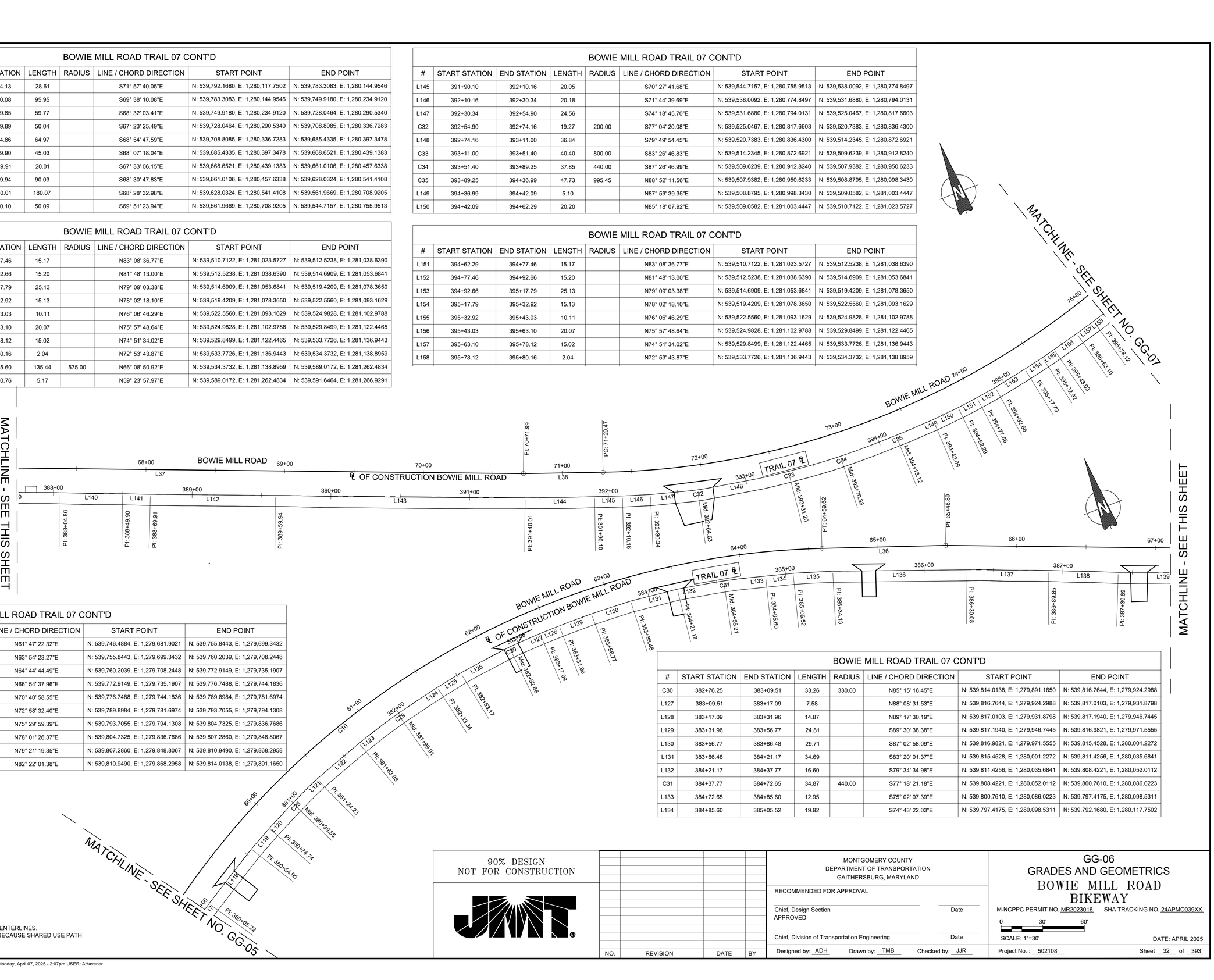
BOWIE MILL ROAD TRAIL 07 CONT'D							
#	START STATION	END STATION	LENGTH	RADIUS	LINE / CHORD DIRECTION	START POINT	END POINT
L135	385+05.52	385+34.13	28.61		S71° 57' 40.05"E	N: 539,792.1680, E: 1,280,117.7502	N: 539,783.3083, E: 1,280,144.9546
L136	385+34.13	386+30.08	95.95		S69° 38' 10.08"E	N: 539,783.3083, E: 1,280,144.9546	N: 539,749.9180, E: 1,280,234.9120
L137	386+30.08	386+89.85	59.77		S68° 32' 03.41"E	N: 539,749.9180, E: 1,280,234.9120	N: 539,728.0464, E: 1,280,290.5340
L138	386+89.85	387+39.89	50.04		S67° 23' 25.49"E	N: 539,728.0464, E: 1,280,290.5340	N: 539,708.8085, E: 1,280,336.7283
L139	387+39.89	388+04.86	64.97		S68° 54' 47.59"E	N: 539,708.8085, E: 1,280,336.7283	N: 539,685.4335, E: 1,280,397.3478
L140	388+04.86	388+49.90	45.03		S68° 07' 18.04"E	N: 539,685.4335, E: 1,280,397.3478	N: 539,668.6521, E: 1,280,439.1383
L141	388+49.90	388+69.91	20.01		S67° 33' 06.15"E	N: 539,668.6521, E: 1,280,439.1383	N: 539,661.0106, E: 1,280,457.6338
L142	388+69.91	389+59.94	90.03		S68° 30' 47.83"E	N: 539,661.0106, E: 1,280,457.6338	N: 539,628.0324, E: 1,280,541.4108
L143	389+59.94	391+40.01	180.07		S68° 28' 32.98"E	N: 539,628.0324, E: 1,280,541.4108	N: 539,561.9669, E: 1,280,708.9205
L144	391+40.01	391+90.10	50.09		S69° 51' 23.94"E	N: 539,561.9669, E: 1,280,708.9205	N: 539,544.7157, E: 1,280,755.9513

BOWIE MILL ROAD TRAIL 07 CONT'D							
#	START STATION	END STATION	LENGTH	RADIUS	LINE / CHORD DIRECTION	START POINT	END POINT
L145	391+90.10	392+10.16	20.05		S70° 27' 41.68"E	N: 539,544.7157, E: 1,280,755.9513	N: 539,538.0092, E: 1,280,774.8497
L146	392+10.16	392+30.34	20.18		S71° 44' 39.69"E	N: 539,538.0092, E: 1,280,774.8497	N: 539,531.6880, E: 1,280,794.0131
L147	392+30.34	392+54.90	24.56		S74° 18' 45.70"E	N: 539,531.6880, E: 1,280,794.0131	N: 539,525.0467, E: 1,280,817.6603
C32	392+54.90	392+74.16	19.27	200.00	S77° 04' 20.08"E	N: 539,525.0467, E: 1,280,817.6603	N: 539,520.7383, E: 1,280,836.4300
L148	392+74.16	393+11.00	36.84		S79° 49' 54.45"E	N: 539,520.7383, E: 1,280,836.4300	N: 539,514.2345, E: 1,280,872.6921
C33	393+11.00	393+51.40	40.40	800.00	S83° 26' 46.83"E	N: 539,514.2345, E: 1,280,872.6921	N: 539,509.6239, E: 1,280,912.8240
C34	393+51.40	393+89.25	37.85	440.00	S87° 26' 46.99"E	N: 539,509.6239, E: 1,280,912.8240	N: 539,507.9382, E: 1,280,950.6233
C35	393+89.25	394+36.99	47.73	995.45	N88° 52' 11.56"E	N: 539,507.9382, E: 1,280,950.6233	N: 539,508.8795, E: 1,280,998.3430
L149	394+36.99	394+42.09	5.10		N87° 59' 39.35"E	N: 539,508.8795, E: 1,280,998.3430	N: 539,509.0582, E: 1,281,003.4447
L150	394+42.09	394+62.29	20.20		N85° 18' 07.92"E	N: 539,509.0582, E: 1,281,003.4447	N: 539,510.7122, E: 1,281,023.5727

BOWIE MILL ROAD TRAIL 07 CONT'D							
#	START STATION	END STATION	LENGTH	RADIUS	LINE / CHORD DIRECTION	START POINT	END POINT
L151	394+62.29	394+77.46	15.17		N83° 08' 36.77"E	N: 539,510.7122, E: 1,281,023.5727	N: 539,512.5238, E: 1,281,038.6390
L152	394+77.46	394+92.66	15.20		N81° 48' 13.00"E	N: 539,512.5238, E: 1,281,038.6390	N: 539,514.6909, E: 1,281,053.6841
L153	394+92.66	395+17.79	25.13		N79° 09' 03.38"E	N: 539,514.6909, E: 1,281,053.6841	N: 539,519.4209, E: 1,281,078.3650
L154	395+17.79	395+32.92	15.13		N78° 02' 18.10"E	N: 539,519.4209, E: 1,281,078.3650	N: 539,522.5560, E: 1,281,093.1629
L155	395+32.92	395+43.03	10.11		N76° 06' 46.29"E	N: 539,522.5560, E: 1,281,093.1629	N: 539,524.9828, E: 1,281,102.9788
L156	395+43.03	395+63.10	20.07		N75° 57' 48.64"E	N: 539,524.9828, E: 1,281,102.9788	N: 539,529.8499, E: 1,281,122.4465
L157	395+63.10	395+78.12	15.02		N74° 51' 34.02"E	N: 539,529.8499, E: 1,281,122.4465	N: 539,533.7726, E: 1,281,136.9443
L158	395+78.12	395+80.16	2.04		N72° 53' 43.87"E	N: 539,533.7726, E: 1,281,136.9443	N: 539,534.3732, E: 1,281,138.8959
C36	395+80.16	397+15.60	135.44	575.00	N66° 08' 50.92"E	N: 539,534.3732, E: 1,281,138.8959	N: 539,589.0172, E: 1,281,262.4834
L159	397+15.60	397+20.76	5.17		N59° 23' 57.97"E	N: 539,589.0172, E: 1,281,262.4834	N: 539,591.6464, E: 1,281,266.9291

BOWIE MILL ROAD TRAIL 07 CONT'D							
#	START STATION	END STATION	LENGTH	RADIUS	LINE / CHORD DIRECTION	START POINT	END POINT
L119	380+54.95	380+74.74	19.79		N61° 47' 22.32"E	N: 539,746.4884, E: 1,279,681.9021	N: 539,755.8443, E: 1,279,699.3432
L120	380+74.74	380+84.66	9.91		N63° 54' 23.27"E	N: 539,755.8443, E: 1,279,699.3432	N: 539,760.2039, E: 1,279,708.2448
C28	380+84.66	381+14.45	29.80	800.00	N64° 44' 44.49"E	N: 539,760.2039, E: 1,279,708.2448	N: 539,772.9149, E: 1,279,735.1907
L121	381+14.45	381+24.23	9.78		N66° 54' 37.96"E	N: 539,772.9149, E: 1,279,735.1907	N: 539,776.7488, E: 1,279,744.1836
L122	381+24.23	381+63.98	39.75		N70° 40' 58.55"E	N: 539,776.7488, E: 1,279,744.1836	N: 539,789.8984, E: 1,279,781.6974
L123	381+63.98	381+76.98	13.00		N72° 58' 32.40"E	N: 539,789.8984, E: 1,279,781.6974	N: 539,793.7055, E: 1,279,794.1308
C29	381+76.98	382+21.04	44.05	500.00	N75° 29' 59.39"E	N: 539,793.7055, E: 1,279,794.1308	N: 539,804.7325, E: 1,279,836.7686
L124	382+21.04	382+33.34	12.31		N78° 01' 26.37"E	N: 539,804.7325, E: 1,279,836.7686	N: 539,807.2860, E: 1,279,848.8067
L125	382+33.34	382+53.17	19.83		N79° 21' 19.35"E	N: 539,807.2860, E: 1,279,848.8067	N: 539,810.9490, E: 1,279,868.2958
L126	382+53.17	382+76.25	23.07		N82° 22' 01.38"E	N: 539,810.9490, E: 1,279,868.2958	N: 539,814.0138, E: 1,279,891.1650

BOWIE MILL ROAD TRAIL 07 CONT'D							
#	START STATION	END STATION	LENGTH	RADIUS	LINE / CHORD DIRECTION	START POINT	END POINT
C30	382+76.25	383+09.51	33.26	330.00	N85° 15' 16.45"E	N: 539,814.0138, E: 1,279,891.1650	N: 539,816.7644, E: 1,279,924.2988
L127	383+09.51	383+17.09	7.58		N88° 08' 31.53"E	N: 539,816.7644, E: 1,279,924.2988	N: 539,817.0103, E: 1,279,931.8798
L128	383+17.09	383+31.96	14.87		N89° 17' 30.19"E	N: 539,817.0103, E: 1,279,931.8798	N: 539,817.1940, E: 1,279,946.7445
L129	383+31.96	383+56.77	24.81		S89° 30' 38.38"E	N: 539,817.1940, E: 1,279,946.7445	N: 539,816.9821, E: 1,279,971.5555
L130	383+56.77	383+86.48	29.71		S87° 02' 58.09"E	N: 539,816.9821, E: 1,279,971.5555	N: 539,815.4528, E: 1,280,001.2272
L131	383+86.48	384+21.17	34.69		S83° 20' 01.37"E	N: 539,815.4528, E: 1,280,001.2272	N: 539,811.4256, E: 1,280,035.6841
L132	384+21.17	384+37.77	16.60		S79° 34' 34.98"E	N: 539,811.4256, E: 1,280,035.6841	N: 539,808.4221, E: 1,280,052.0112
C31	384+37.77	384+72.65	34.87	440.00	S77° 18' 21.18"E	N: 539,808.4221, E: 1,280,052.0112	N: 539,800.7610, E: 1,280,086.0223
L133	384+72.65	384+85.60	12.95		S75° 02' 07.39"E	N: 539,800.7610, E: 1,280,086.0223	N: 539,797.4175, E: 1,280,098.5311
L134	384+85.60	385+05.52	19.92		S74° 43' 22.03"E	N: 539,797.4175, E: 1,280,098.5311	N: 539,792.1680, E: 1,280,117.7502



NOTES:

1. BASELINE OF CONSTRUCTION IS SET AT EXISTING ROADWAY CENTERLINES.
2. SEPARATE TRAIL ALIGNMENTS AND PROFILES ARE PROVIDED BECAUSE SHARED USE PATH ALIGNMENT DOES NOT PARALLEL ROADWAY BASELINE.

90% DESIGN
NOT FOR CONSTRUCTION

NO.	REVISION	DATE	BY

MONTGOMERY COUNTY
DEPARTMENT OF TRANSPORTATION
GAITHERSBURG, MARYLAND

RECOMMENDED FOR APPROVAL

Chief, Design Section — Date

APPROVED

Chief, Division of Transportation Engineering — Date

Designed by: ADH Drawn by: TMB Checked by: JJR

GG-06
GRADES AND GEOMETRICS
BOWIE MILL ROAD
BIKEWAY

M-NCPPC PERMIT NO. MR2023016 SHA TRACKING NO. 24APMO039XX

0 30' 60'
SCALE: 1"=30'

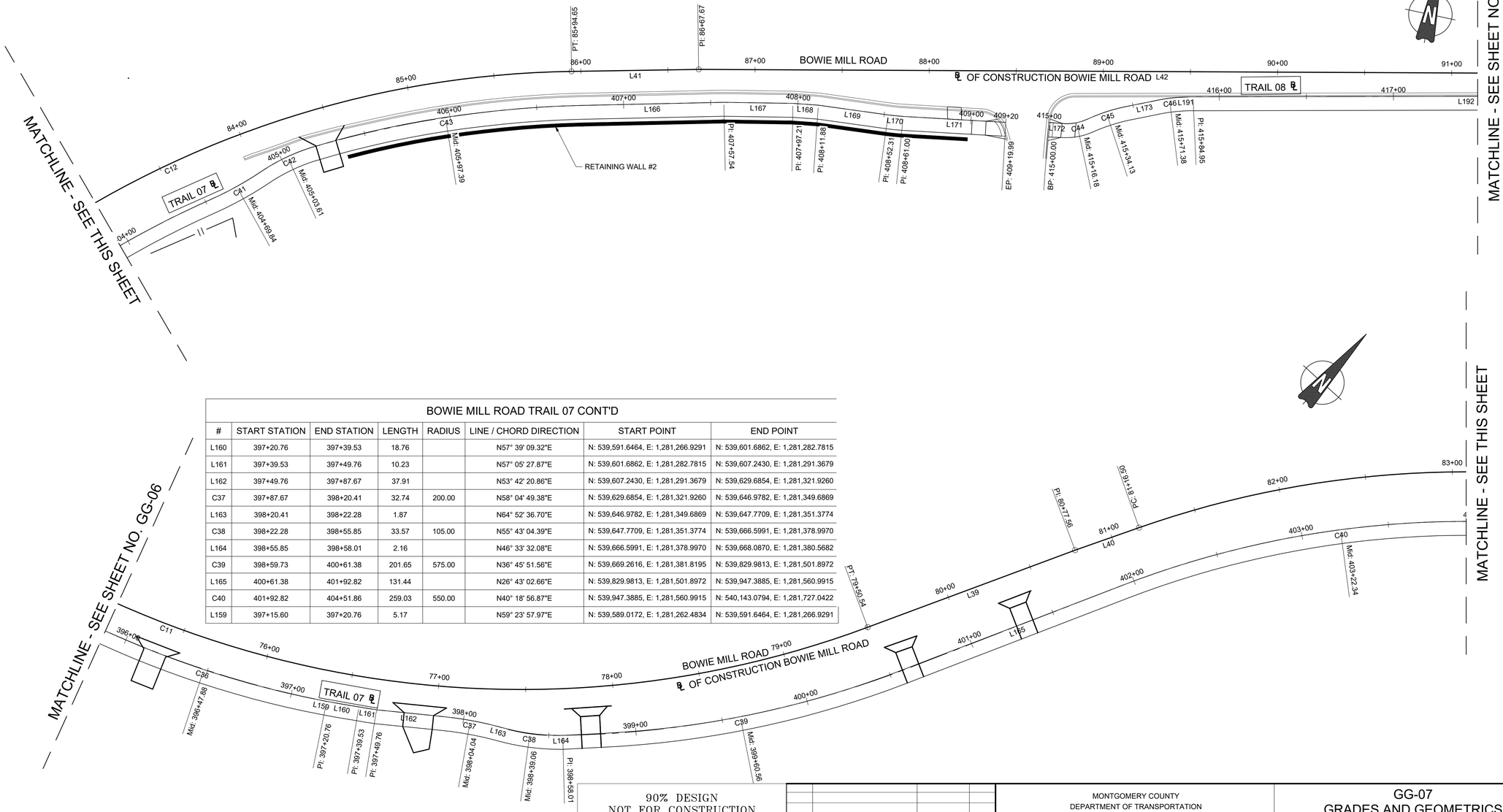
DATE: APRIL 2025

Project No. : 502108

Sheet 32 of 393

BOWIE MILL ROAD TRAIL 07 CONT'D							
#	START STATION	END STATION	LENGTH	RADIUS	LINE / CHORD DIRECTION	START POINT	END POINT
C41	404+51.86	404+87.81	35.96	200.00	N48° 50' 41.66"E	N: 540,143.0794, E: 1,281,727.0422	N: 540,166.7096, E: 1,281,754.0776
C42	404+87.81	405+19.41	31.60	110.00	N52° 53' 00.01"E	N: 540,166.7096, E: 1,281,754.0776	N: 540,185.7104, E: 1,281,779.1859
C43	405+19.41	406+75.36	155.95	600.00	N69° 00' 53.49"E	N: 540,185.7104, E: 1,281,779.1859	N: 540,241.4029, E: 1,281,924.3825
L166	406+75.36	407+57.54	82.18		N76° 36' 21.43"E	N: 540,241.4029, E: 1,281,924.3825	N: 540,260.4394, E: 1,282,004.3260
L167	407+57.54	407+97.21	39.67		N78° 44' 04.03"E	N: 540,260.4394, E: 1,282,004.3260	N: 540,268.1897, E: 1,282,043.2346
L168	407+97.21	408+11.88	14.67		N81° 56' 12.60"E	N: 540,268.1897, E: 1,282,043.2346	N: 540,270.2468, E: 1,282,057.7553
L169	408+11.88	408+52.31	40.44		N85° 48' 35.48"E	N: 540,270.2468, E: 1,282,057.7553	N: 540,273.2014, E: 1,282,098.0834
L170	408+52.31	408+61.00	8.69		N83° 28' 57.98"E	N: 540,273.2014, E: 1,282,098.0834	N: 540,274.1876, E: 1,282,106.7165
L171	408+61.00	409+19.99	58.98		N81° 09' 20.48"E	N: 540,274.1876, E: 1,282,106.7165	N: 540,283.2562, E: 1,282,164.9977

BOWIE MILL ROAD TRAIL 08							
#	START STATION	END STATION	LENGTH	RADIUS	LINE / CHORD DIRECTION	START POINT	END POINT
L172	415+00.00	415+10.01	10.01		N82° 04' 19.25"E	N: 540,288.3892, E: 1,282,189.1268	N: 540,289.7703, E: 1,282,199.0442
C44	415+10.01	415+22.34	12.33	27.00	N65° 58' 57.10"E	N: 540,289.7703, E: 1,282,199.0442	N: 540,294.7458, E: 1,282,210.2102
C45	415+22.34	415+45.92	23.58	100.00	N59° 43' 28.14"E	N: 540,294.7458, E: 1,282,210.2102	N: 540,306.6054, E: 1,282,230.5254
L173	415+45.92	415+66.69	20.77		N66° 25' 22.42"E	N: 540,306.6054, E: 1,282,230.5254	N: 540,314.9129, E: 1,282,249.5612
C46	415+66.69	415+76.06	9.37	60.00	N70° 53' 49.34"E	N: 540,314.9129, E: 1,282,249.5612	N: 540,317.9765, E: 1,282,258.4068
L191	415+76.06	415+84.95	8.89		N75° 22' 16.26"E	N: 540,317.9765, E: 1,282,258.4068	N: 540,320.2222, E: 1,282,267.0105
L192	415+84.95	418+98.69	313.74		N77° 43' 44.77"E	N: 540,320.2222, E: 1,282,267.0105	N: 540,386.9020, E: 1,282,573.5797



NOTES:

1. BASELINE OF CONSTRUCTION IS SET AT EXISTING ROADWAY CENTERLINES.
2. SEPARATE TRAIL ALIGNMENTS AND PROFILES ARE PROVIDED BECAUSE SHARED USE PATH ALIGNMENT DOES NOT PARALLEL ROADWAY BASELINE.

90% DESIGN
NOT FOR CONSTRUCTION

NO.	REVISION	DATE	BY

MONTGOMERY COUNTY
DEPARTMENT OF TRANSPORTATION
GAITHERSBURG, MARYLAND

RECOMMENDED FOR APPROVAL

Chief, Design Section — Date

APPROVED

Chief, Division of Transportation Engineering — Date

Designed by: ADH Drawn by: TMB Checked by: JJR

GG-07
GRADES AND GEOMETRICS
BOWIE MILL ROAD
BIKEWAY

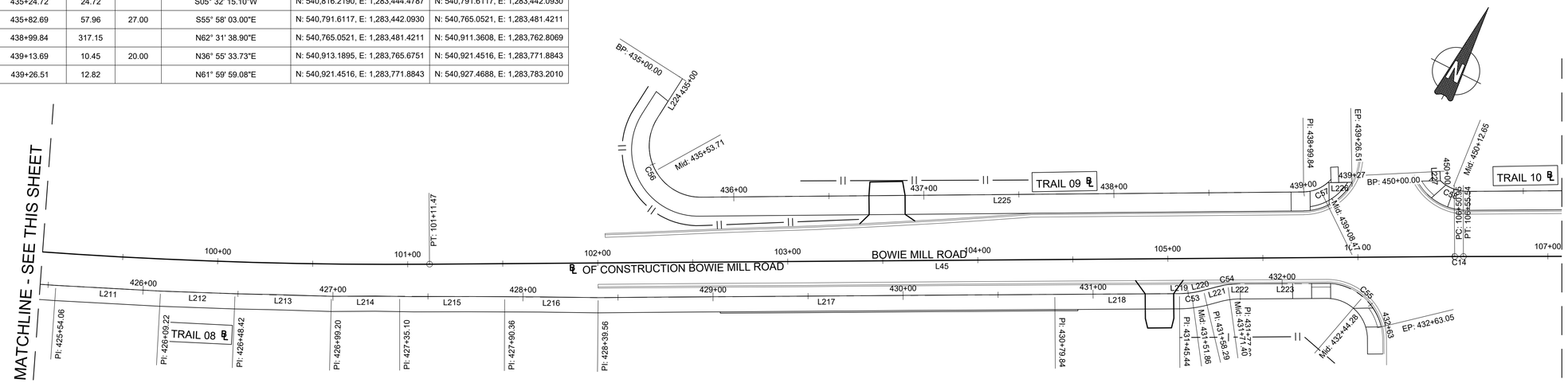
M-NCPPC PERMIT NO. MR2023016 SHA TRACKING NO. 24APMO039XX

0 30' 60'
SCALE: 1"=30'

DATE: APRIL 2025

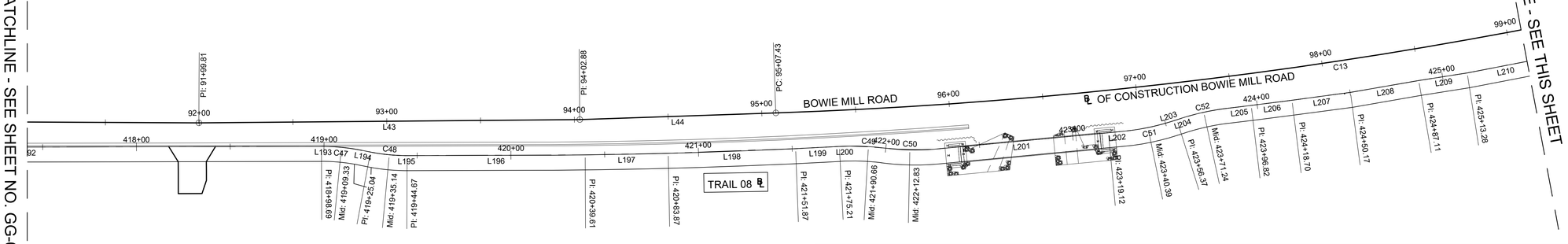
Project No. : 502108 Sheet 33 of 393

BOWIE MILL ROAD TRAIL 09							
#	START STATION	END STATION	LENGTH	RADIUS	LINE / CHORD DIRECTION	START POINT	END POINT
L224	435+00.00	435+24.72	24.72		S05° 32' 15.10"W	N: 540,816.2190, E: 1,283,444.4787	N: 540,791.6117, E: 1,283,442.0930
C56	435+24.72	435+82.69	57.96	27.00	S55° 58' 03.00"E	N: 540,791.6117, E: 1,283,442.0930	N: 540,765.0521, E: 1,283,481.4211
L225	435+82.69	438+99.84	317.15		N62° 31' 38.90"E	N: 540,765.0521, E: 1,283,481.4211	N: 540,911.3608, E: 1,283,762.8069
C57	439+03.24	439+13.69	10.45	20.00	N36° 55' 33.73"E	N: 540,913.1895, E: 1,283,765.6751	N: 540,921.4516, E: 1,283,771.8843
L226	439+13.69	439+26.51	12.82		N61° 59' 59.08"E	N: 540,921.4516, E: 1,283,771.8843	N: 540,927.4688, E: 1,283,783.2010



BOWIE MILL ROAD TRAIL 08 CONT'D							
#	START STATION	END STATION	LENGTH	RADIUS	LINE / CHORD DIRECTION	START POINT	END POINT
C53	431+47.51	431+56.21	8.70	45.00	N55° 18' 53.84"E	N: 540,835.0082, E: 1,283,730.6659	N: 540,839.9536, E: 1,283,737.8119
L220	431+56.21	431+58.29	2.07		N49° 46' 25.93"E	N: 540,839.9536, E: 1,283,737.8119	N: 540,841.2935, E: 1,283,739.3961
L221	431+58.29	431+65.26	6.98		N48° 07' 28.19"E	N: 540,841.2935, E: 1,283,739.3961	N: 540,845.9509, E: 1,283,744.5912
C54	431+65.26	431+77.55	12.28	50.00	N55° 09' 44.93"E	N: 540,845.9509, E: 1,283,744.5912	N: 540,852.9503, E: 1,283,754.6480
L222	431+77.55	431+77.88	0.34		N62° 12' 01.66"E	N: 540,852.9503, E: 1,283,754.6480	N: 540,853.1068, E: 1,283,754.9449
L223	431+77.88	432+25.50	47.62		N62° 46' 08.66"E	N: 540,853.1068, E: 1,283,754.9449	N: 540,874.8979, E: 1,283,797.2895
C55	432+25.50	432+63.05	37.55	30.00	S76° 20' 14.64"E	N: 540,874.8979, E: 1,283,797.2895	N: 540,866.5962, E: 1,283,831.4414
L193	418+98.69	419+00.64	1.94		N78° 30' 37.56"E	N: 540,386.9020, E: 1,282,573.5797	N: 540,387.2892, E: 1,282,575.4845
C47	419+00.64	419+18.03	17.40	100.00	N83° 29' 39.29"E	N: 540,387.2892, E: 1,282,575.4845	N: 540,389.2578, E: 1,282,592.7475
L194	419+18.03	419+25.04	7.01		N88° 28' 41.03"E	N: 540,389.2578, E: 1,282,592.7475	N: 540,389.4439, E: 1,282,599.7512
C48	419+26.16	419+44.13	17.97	100.00	N83° 12' 11.07"E	N: 540,389.4761, E: 1,282,600.8718	N: 540,391.5998, E: 1,282,618.6896
L195	419+44.13	419+44.67	0.55		N78° 03' 20.09"E	N: 540,391.5998, E: 1,282,618.6896	N: 540,391.7126, E: 1,282,619.2229
L196	419+44.67	420+39.61	94.94		N77° 38' 03.64"E	N: 540,391.7126, E: 1,282,619.2229	N: 540,412.0442, E: 1,282,711.9613
L197	420+39.61	420+83.87	44.26		N76° 44' 55.09"E	N: 540,412.0442, E: 1,282,711.9613	N: 540,422.1899, E: 1,282,755.0437
L198	420+83.87	421+51.87	68.00		N75° 45' 19.55"E	N: 540,422.1899, E: 1,282,755.0437	N: 540,438.9219, E: 1,282,820.9525
L199	421+51.87	421+75.21	23.34		N74° 56' 50.48"E	N: 540,438.9219, E: 1,282,820.9525	N: 540,444.9824, E: 1,282,843.4877
L200	421+75.21	421+80.85	5.64		N76° 30' 49.19"E	N: 540,444.9824, E: 1,282,843.4877	N: 540,446.2970, E: 1,282,848.9694
C49	421+80.85	422+00.48	19.64	200.00	N81° 11' 53.89"E	N: 540,446.2970, E: 1,282,848.9694	N: 540,449.3003, E: 1,282,868.3658
C50	422+00.48	422+25.18	24.69	200.00	N79° 01' 14.07"E	N: 540,449.3003, E: 1,282,868.3658	N: 540,454.0007, E: 1,282,892.5933
L201	422+25.18	423+19.12	93.94		N72° 27' 35.55"E	N: 540,454.0007, E: 1,282,892.5933	N: 540,482.3118, E: 1,282,982.1659

BOWIE MILL ROAD TRAIL 08 CONT'D							
#	START STATION	END STATION	LENGTH	RADIUS	LINE / CHORD DIRECTION	START POINT	END POINT
L202	423+19.12	423+28.14	9.03		N72° 08' 29.47"E	N: 540,482.3118, E: 1,282,982.1659	N: 540,485.0798, E: 1,282,990.7570
C51	423+28.14	423+52.64	24.49	120.00	N66° 17' 38.91"E	N: 540,485.0798, E: 1,282,990.7570	N: 540,494.9100, E: 1,283,013.1448
L203	423+52.64	423+56.37	3.74		N60° 26' 48.36"E	N: 540,494.9100, E: 1,283,013.1448	N: 540,496.7525, E: 1,283,016.3943
L204	423+56.37	423+58.90	2.53		N60° 04' 33.20"E	N: 540,496.7525, E: 1,283,016.3943	N: 540,498.0135, E: 1,283,018.5850
C52	423+58.90	423+83.57	24.67	130.00	N65° 30' 44.87"E	N: 540,498.0135, E: 1,283,018.5850	N: 540,508.2239, E: 1,283,041.0027
L205	423+83.57	423+96.82	13.25		N70° 56' 56.53"E	N: 540,508.2239, E: 1,283,041.0027	N: 540,512.5482, E: 1,283,053.5250
L206	423+96.82	424+18.70	21.88		N70° 36' 09.81"E	N: 540,512.5482, E: 1,283,053.5250	N: 540,519.8145, E: 1,283,074.1620
L207	424+18.70	424+50.17	31.48		N70° 14' 30.15"E	N: 540,519.8145, E: 1,283,074.1620	N: 540,530.4547, E: 1,283,103.7840
L208	424+50.17	424+87.11	36.94		N67° 59' 28.56"E	N: 540,530.4547, E: 1,283,103.7840	N: 540,544.2975, E: 1,283,138.0310
L209	424+87.11	425+13.28	26.16		N68° 55' 22.72"E	N: 540,544.2975, E: 1,283,138.0310	N: 540,553.7070, E: 1,283,162.4454
L210	425+13.28	425+54.06	40.79		N66° 56' 30.22"E	N: 540,553.7070, E: 1,283,162.4454	N: 540,569.6820, E: 1,283,199.9740
L211	425+54.06	426+09.22	55.15		N66° 08' 20.55"E	N: 540,569.6820, E: 1,283,199.9740	N: 540,591.9923, E: 1,283,250.4129
L212	426+09.22	426+48.42	39.20		N65° 06' 11.88"E	N: 540,591.9923, E: 1,283,250.4129	N: 540,608.4965, E: 1,283,285.9736
L213	426+48.42	426+99.20	50.78		N64° 31' 04.74"E	N: 540,608.4965, E: 1,283,285.9736	N: 540,630.3447, E: 1,283,331.8163
L214	426+99.20	427+35.10	35.90		N63° 03' 09.65"E	N: 540,630.3447, E: 1,283,331.8163	N: 540,646.6142, E: 1,283,363.8197
L215	427+35.10	427+90.36	55.26		N63° 14' 48.15"E	N: 540,646.6142, E: 1,283,363.8197	N: 540,671.4887, E: 1,283,413.1627
L216	427+90.36	428+39.56	49.20		N63° 35' 03.10"E	N: 540,671.4887, E: 1,283,413.1627	N: 540,693.3773, E: 1,283,457.2264
L217	428+39.56	430+79.84	240.28		N62° 37' 01.34"E	N: 540,693.3773, E: 1,283,457.2264	N: 540,803.8912, E: 1,283,670.5847
L218	430+79.84	431+45.44	65.59		N62° 40' 31.08"E	N: 540,803.8912, E: 1,283,670.5847	N: 540,834.0004, E: 1,283,728.8586
L219	431+45.44	431+47.51	2.07		N60° 51' 21.76"E	N: 540,834.0004, E: 1,283,728.8586	N: 540,835.0082, E: 1,283,730.6659



NOTES:

1. BASELINE OF CONSTRUCTION IS SET AT EXISTING ROADWAY CENTERLINES.
2. SEPARATE TRAIL ALIGNMENTS AND PROFILES ARE PROVIDED BECAUSE SHARED USE PATH ALIGNMENT DOES NOT PARALLEL ROADWAY BASELINE.

90% DESIGN
NOT FOR CONSTRUCTION

NO.	REVISION	DATE	BY

MONTGOMERY COUNTY
DEPARTMENT OF TRANSPORTATION
GAITHERSBURG, MARYLAND

RECOMMENDED FOR APPROVAL

Chief, Design Section — Date

APPROVED

Chief, Division of Transportation Engineering — Date

Designed by: ADH Drawn by: TMB Checked by: JJR

GG-08
GRADES AND GEOMETRICS
BOWIE MILL ROAD
BIKEWAY

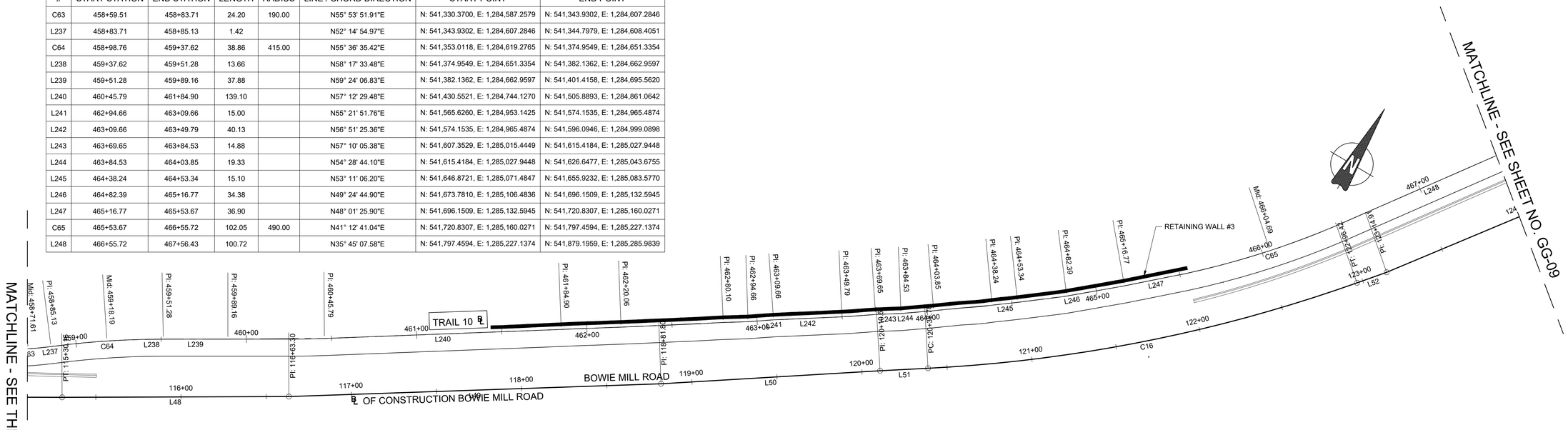
M-NCPPC PERMIT NO. MR2023016 SHA TRACKING NO. 24APMO039XX

0 30' 60'
SCALE: 1"=30'

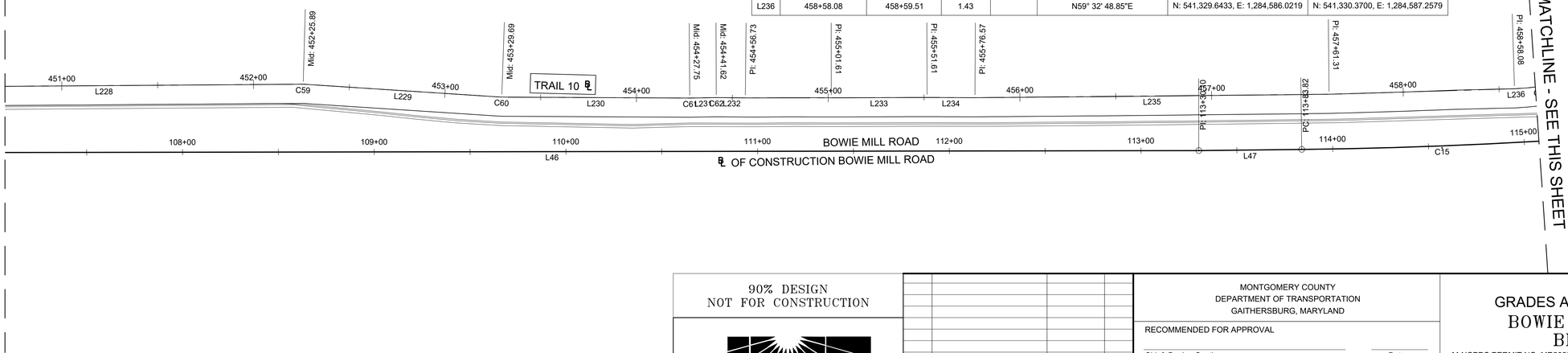
DATE: APRIL 2025

Project No. : 502108 Sheet 34 of 393

BOWIE MILL ROAD TRAIL 10 - CONT'D							
#	START STATION	END STATION	LENGTH	RADIUS	LINE / CHORD DIRECTION	START POINT	END POINT
C63	458+59.51	458+83.71	24.20	190.00	N55° 53' 51.91"E	N: 541,330.3700, E: 1,284,587.2579	N: 541,343.9302, E: 1,284,607.2846
L237	458+83.71	458+85.13	1.42		N52° 14' 54.97"E	N: 541,343.9302, E: 1,284,607.2846	N: 541,344.7979, E: 1,284,608.4051
C64	458+98.76	459+37.62	38.86	415.00	N55° 36' 35.42"E	N: 541,353.0118, E: 1,284,619.2765	N: 541,374.9549, E: 1,284,651.3354
L238	459+37.62	459+51.28	13.66		N58° 17' 33.48"E	N: 541,374.9549, E: 1,284,651.3354	N: 541,382.1362, E: 1,284,662.9597
L239	459+51.28	459+89.16	37.88		N59° 24' 06.83"E	N: 541,382.1362, E: 1,284,662.9597	N: 541,401.4158, E: 1,284,695.5620
L240	460+45.79	461+84.90	139.10		N57° 12' 29.48"E	N: 541,430.5521, E: 1,284,744.1270	N: 541,505.8893, E: 1,284,861.0642
L241	462+94.66	463+09.66	15.00		N55° 21' 51.76"E	N: 541,565.6260, E: 1,284,953.1425	N: 541,574.1535, E: 1,284,965.4874
L242	463+09.66	463+49.79	40.13		N56° 51' 25.36"E	N: 541,574.1535, E: 1,284,965.4874	N: 541,596.0946, E: 1,284,999.0898
L243	463+69.65	463+84.53	14.88		N57° 10' 05.38"E	N: 541,607.3529, E: 1,285,015.4449	N: 541,615.4184, E: 1,285,027.9448
L244	463+84.53	464+03.85	19.33		N54° 28' 44.10"E	N: 541,615.4184, E: 1,285,027.9448	N: 541,626.6477, E: 1,285,043.6755
L245	464+38.24	464+53.34	15.10		N53° 11' 06.20"E	N: 541,646.8721, E: 1,285,071.4847	N: 541,655.9232, E: 1,285,083.5770
L246	464+82.39	465+16.77	34.38		N49° 24' 44.90"E	N: 541,673.7810, E: 1,285,106.4836	N: 541,696.1509, E: 1,285,132.5945
L247	465+16.77	465+53.67	36.90		N48° 01' 25.90"E	N: 541,696.1509, E: 1,285,132.5945	N: 541,720.8307, E: 1,285,160.0271
C65	465+53.67	466+55.72	102.05	490.00	N41° 12' 41.04"E	N: 541,720.8307, E: 1,285,160.0271	N: 541,797.4594, E: 1,285,227.1374
L248	466+55.72	467+56.43	100.72		N35° 45' 07.58"E	N: 541,797.4594, E: 1,285,227.1374	N: 541,879.1959, E: 1,285,285.9839



BOWIE MILL ROAD TRAIL 10							
#	START STATION	END STATION	LENGTH	RADIUS	LINE / CHORD DIRECTION	START POINT	END POINT
L227	450+00.00	450+04.94	4.94		S29° 55' 13.93"E	N: 540,953.5593, E: 1,283,821.8313	N: 540,949.2741, E: 1,283,824.2974
C58	450+04.94	450+20.35	15.41	20.00	N84° 58' 46.09"E	N: 540,949.2741, E: 1,283,824.2974	N: 540,950.5895, E: 1,283,839.2707
L228	450+20.35	452+23.73	203.38		N62° 36' 58.74"E	N: 540,950.5895, E: 1,283,839.2707	N: 541,044.1318, E: 1,284,019.8579
C59	452+23.73	452+28.06	4.33	60.00	N64° 40' 54.08"E	N: 541,044.1318, E: 1,284,019.8579	N: 541,045.9813, E: 1,284,023.7673
L229	452+28.06	453+28.50	100.44		N66° 44' 49.42"E	N: 541,045.9813, E: 1,284,023.7673	N: 541,085.6342, E: 1,284,116.0490
C60	453+28.50	453+30.89	2.40	40.00	N65° 01' 51.17"E	N: 541,085.6342, E: 1,284,116.0490	N: 541,086.6456, E: 1,284,118.2209
L230	453+30.89	454+26.81	95.92		N63° 18' 52.92"E	N: 541,086.6456, E: 1,284,118.2209	N: 541,129.7227, E: 1,284,203.9251
C61	454+26.81	454+28.69	1.88	80.00	N62° 38' 27.13"E	N: 541,129.7227, E: 1,284,203.9251	N: 541,130.5875, E: 1,284,205.5962
L231	454+28.69	454+40.45	11.76		N61° 58' 01.35"E	N: 541,130.5875, E: 1,284,205.5962	N: 541,136.1129, E: 1,284,215.9736
C62	454+40.45	454+42.78	2.33	80.00	N62° 48' 06.28"E	N: 541,136.1129, E: 1,284,215.9736	N: 541,137.1783, E: 1,284,218.0468
L232	454+42.78	454+56.73	13.95		N63° 38' 11.21"E	N: 541,137.1783, E: 1,284,218.0468	N: 541,143.3739, E: 1,284,230.5478
L233	455+01.61	455+51.61	50.00		N62° 49' 04.20"E	N: 541,163.7753, E: 1,284,270.5221	N: 541,186.6142, E: 1,284,314.9959
L234	455+51.61	455+76.57	24.96		N63° 17' 04.00"E	N: 541,186.6142, E: 1,284,314.9959	N: 541,197.8366, E: 1,284,337.2940
L235	455+76.57	457+61.31	184.74		N62° 28' 16.27"E	N: 541,197.8366, E: 1,284,337.2940	N: 541,283.2204, E: 1,284,501.1135
L236	458+58.08	458+59.51	1.43		N59° 32' 48.85"E	N: 541,329.6433, E: 1,284,586.0219	N: 541,330.3700, E: 1,284,587.2579



NOTES:

1. BASELINE OF CONSTRUCTION IS SET AT EXISTING ROADWAY CENTERLINES.
2. SEPARATE TRAIL ALIGNMENTS AND PROFILES ARE PROVIDED BECAUSE SHARED USE PATH ALIGNMENT DOES NOT PARALLEL ROADWAY BASELINE.

90% DESIGN
NOT FOR CONSTRUCTION

NO.	REVISION	DATE	BY

MONTGOMERY COUNTY
DEPARTMENT OF TRANSPORTATION
GAITHERSBURG, MARYLAND

RECOMMENDED FOR APPROVAL

Chief, Design Section — Date

APPROVED

Chief, Division of Transportation Engineering — Date

Designed by: ADH Drawn by: TMB Checked by: JJR

GG-09
GRADES AND GEOMETRICS
BOWIE MILL ROAD BIKEWAY

M-NCPPC PERMIT NO. MR2023016 SHA TRACKING NO. 24APMO039XX

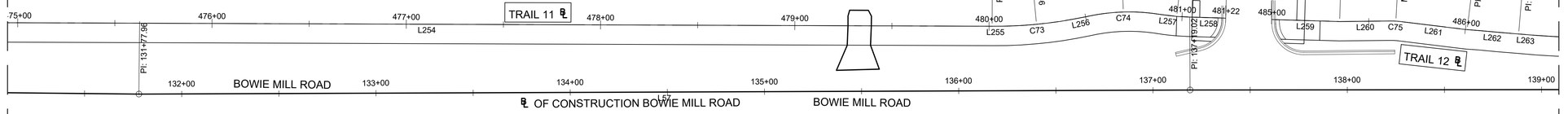
0 30' 60'

SCALE: 1"=30' DATE: APRIL 2025

Project No. : 502108 Sheet 35 of 393

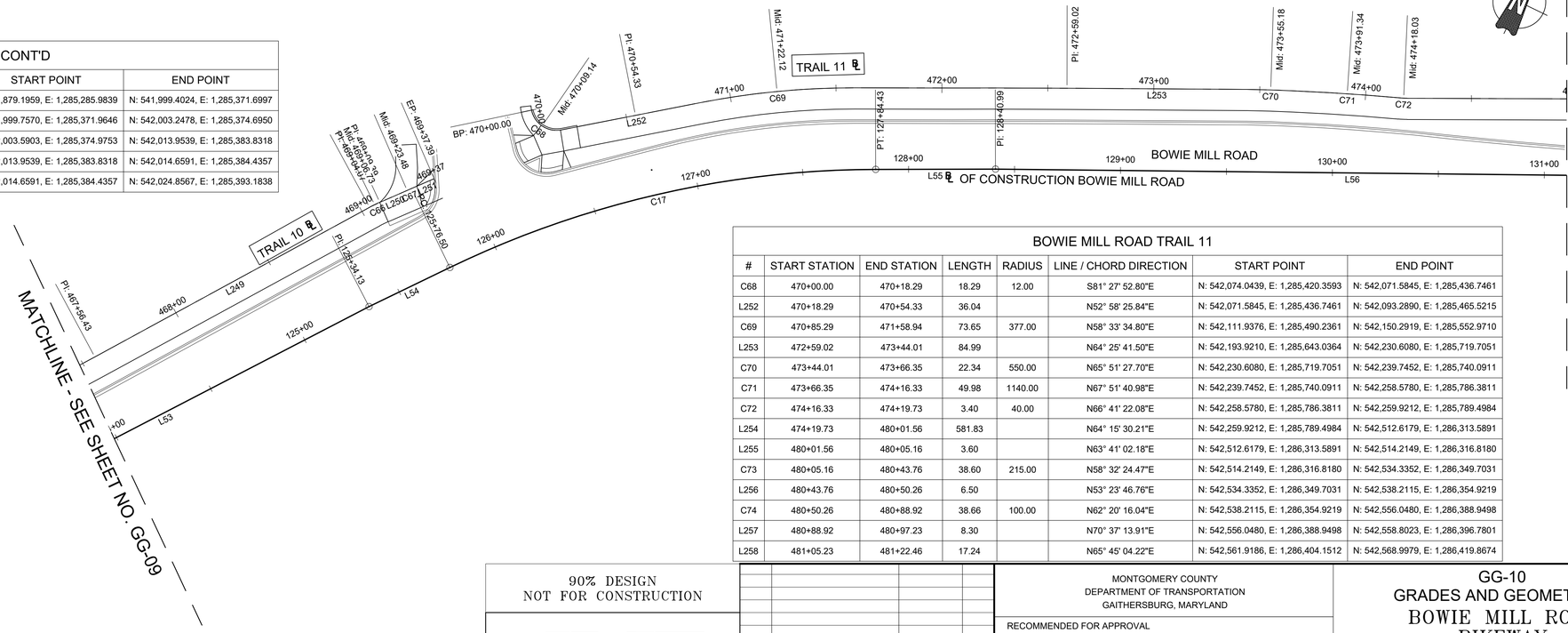
MATCHLINE - SEE THIS SHEET

BOWIE MILL ROAD TRAIL 12							
#	START STATION	END STATION	LENGTH	RADIUS	LINE / CHORD DIRECTION	START POINT	END POINT
L259	485+00.00	485+34.98	34.98		N65° 45' 16.40"E	N: 542,578.7239, E: 1,286,441.4631	N: 542,593.0898, E: 1,286,473.3609
L260	485+34.98	485+61.49	26.50		N63° 29' 42.97"E	N: 542,593.0898, E: 1,286,473.3609	N: 542,604.9170, E: 1,286,497.0778
C75	485+61.49	485+66.34	4.85	37.00	N67° 15' 10.72"E	N: 542,604.9170, E: 1,286,497.0778	N: 542,606.7923, E: 1,286,501.5503
L261	485+66.34	486+00.86	34.52		N70° 58' 46.31"E	N: 542,606.7923, E: 1,286,501.5503	N: 542,618.0439, E: 1,286,534.1896
L262	486+00.86	486+27.49	26.62		N68° 52' 46.73"E	N: 542,618.0439, E: 1,286,534.1896	N: 542,627.6371, E: 1,286,559.0248
L263	486+27.49	486+35.13	7.64		S68° 23' 55.33"W	N: 542,627.6371, E: 1,286,559.0248	N: 542,630.4509, E: 1,286,566.1311



MATCHLINE - SEE SHEET NO. GG-11

BOWIE MILL ROAD TRAIL 10 - CONT'D							
#	START STATION	END STATION	LENGTH	RADIUS	LINE / CHORD DIRECTION	START POINT	END POINT
L249	467+56.43	469+04.07	147.64		N35° 29' 29.75"E	N: 541,879.1959, E: 1,285,285.9839	N: 541,999.4024, E: 1,285,371.6997
C66	469+04.51	469+08.95	4.43	100.00	N38° 01' 51.66"E	N: 541,999.7570, E: 1,285,371.9646	N: 542,003.2478, E: 1,285,374.6950
L250	469+09.39	469+23.02	13.63		N40° 30' 59.52"E	N: 542,003.5903, E: 1,285,374.9753	N: 542,013.9539, E: 1,285,383.8318
C67	469+23.02	469+23.95	0.93	490.00	N40° 34' 14.94"E	N: 542,013.9539, E: 1,285,383.8318	N: 542,014.6591, E: 1,285,384.4357
L251	469+23.95	469+37.39	13.44		N40° 37' 30.36"E	N: 542,014.6591, E: 1,285,384.4357	N: 542,024.8567, E: 1,285,393.1838



MATCHLINE - SEE SHEET NO. GG-09

BOWIE MILL ROAD TRAIL 11							
#	START STATION	END STATION	LENGTH	RADIUS	LINE / CHORD DIRECTION	START POINT	END POINT
C68	470+00.00	470+18.29	18.29	12.00	S81° 27' 52.80"E	N: 542,074.0439, E: 1,285,420.3593	N: 542,071.5845, E: 1,285,436.7461
L252	470+18.29	470+54.33	36.04		N52° 58' 25.84"E	N: 542,071.5845, E: 1,285,436.7461	N: 542,093.2890, E: 1,285,465.5215
C69	470+85.29	471+58.94	73.65	377.00	N58° 33' 34.80"E	N: 542,111.9376, E: 1,285,490.2361	N: 542,150.2919, E: 1,285,552.9710
L253	472+59.02	473+44.01	84.99		N64° 25' 41.50"E	N: 542,193.9210, E: 1,285,643.0364	N: 542,230.6080, E: 1,285,719.7051
C70	473+44.01	473+66.35	22.34	550.00	N65° 51' 27.70"E	N: 542,230.6080, E: 1,285,719.7051	N: 542,239.7452, E: 1,285,740.0911
C71	473+66.35	474+16.33	49.98	1140.00	N67° 51' 40.98"E	N: 542,239.7452, E: 1,285,740.0911	N: 542,258.5780, E: 1,285,786.3811
C72	474+16.33	474+19.73	3.40	40.00	N66° 41' 22.08"E	N: 542,258.5780, E: 1,285,786.3811	N: 542,259.9212, E: 1,285,789.4984
L254	474+19.73	480+01.56	581.83		N64° 15' 30.21"E	N: 542,259.9212, E: 1,285,789.4984	N: 542,512.6179, E: 1,286,313.5891
L255	480+01.56	480+05.16	3.60		N63° 41' 02.18"E	N: 542,512.6179, E: 1,286,313.5891	N: 542,514.2149, E: 1,286,316.8180
C73	480+05.16	480+43.76	38.60	215.00	N58° 32' 24.47"E	N: 542,514.2149, E: 1,286,316.8180	N: 542,534.3352, E: 1,286,349.7031
L256	480+43.76	480+50.26	6.50		N53° 23' 46.76"E	N: 542,534.3352, E: 1,286,349.7031	N: 542,538.2115, E: 1,286,354.9219
C74	480+50.26	480+88.92	38.66	100.00	N62° 20' 16.04"E	N: 542,538.2115, E: 1,286,354.9219	N: 542,556.0480, E: 1,286,388.9498
L257	480+88.92	480+97.23	8.30		N70° 37' 13.91"E	N: 542,556.0480, E: 1,286,388.9498	N: 542,558.8023, E: 1,286,396.7801
L258	481+05.23	481+22.46	17.24		N65° 45' 04.22"E	N: 542,561.9186, E: 1,286,404.1512	N: 542,568.9979, E: 1,286,419.8674

90% DESIGN
NOT FOR CONSTRUCTION

NO.	REVISION	DATE	BY

MONTGOMERY COUNTY
DEPARTMENT OF TRANSPORTATION
GAITHERSBURG, MARYLAND

RECOMMENDED FOR APPROVAL

Chief, Design Section — Date

APPROVED

Chief, Division of Transportation Engineering — Date

Designed by: ADH Drawn by: TMB Checked by: JJR

GG-10
GRADES AND GEOMETRICS
BOWIE MILL ROAD
BIKEWAY

M-NCPPC PERMIT NO. MR2023016 SHA TRACKING NO. 24APMO039XX

0 30' 60'

SCALE: 1"=30' DATE: APRIL 2025

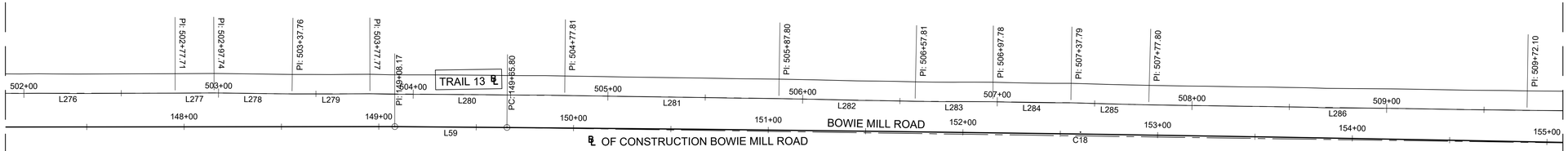
Project No. : 502108 Sheet 36 of 393

NOTES:

1. BASELINE OF CONSTRUCTION IS SET AT EXISTING ROADWAY CENTERLINES.
2. SEPARATE TRAIL ALIGNMENTS AND PROFILES ARE PROVIDED BECAUSE SHARED USE PATH ALIGNMENT DOES NOT PARALLEL ROADWAY BASELINE.

BOWIE MILL ROAD TRAIL 13 - CONT'D							
#	START STATION	END STATION	LENGTH	RADIUS	LINE / CHORD DIRECTION	START POINT	END POINT
L279	503+37.76	503+77.77	40.02		N63° 55' 43.22"E	N: 543,041.0971, E: 1,287,433.5161	N: 543,058.6838, E: 1,287,469.4606
L280	503+77.77	504+77.81	100.03		N64° 33' 46.79"E	N: 543,058.6838, E: 1,287,469.4606	N: 543,101.6500, E: 1,287,559.7965
L281	504+77.81	505+87.80	109.99		N64° 52' 47.99"E	N: 543,101.6500, E: 1,287,559.7965	N: 543,148.3418, E: 1,287,659.3822
L282	505+87.80	506+57.81	70.01		N65° 11' 45.54"E	N: 543,148.3418, E: 1,287,659.3822	N: 543,177.7126, E: 1,287,722.9348
L283	506+57.81	506+97.78	39.97		N64° 20' 54.61"E	N: 543,177.7126, E: 1,287,722.9348	N: 543,195.0175, E: 1,287,758.9698
L284	506+97.78	507+37.79	40.01		N64° 49' 49.12"E	N: 543,195.0175, E: 1,287,758.9698	N: 543,212.0324, E: 1,287,795.1781
L285	507+37.79	507+77.80	40.01		N65° 35' 28.75"E	N: 543,212.0324, E: 1,287,795.1781	N: 543,228.5658, E: 1,287,831.6110
L286	507+77.80	509+72.10	194.31		N64° 53' 15.39"E	N: 543,228.5658, E: 1,287,831.6110	N: 543,311.0289, E: 1,288,007.5519

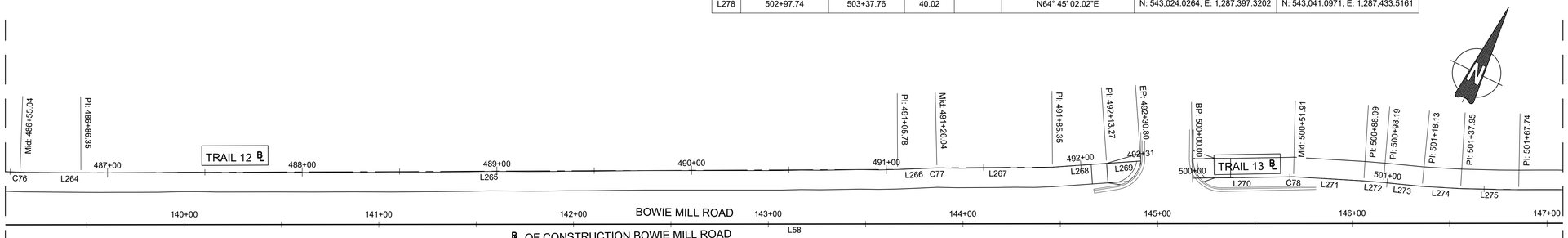
MATCHLINE - SEE THIS SHEET



MATCHLINE - SEE SHEET NO. GG-12

BOWIE MILL ROAD TRAIL 13							
#	START STATION	END STATION	LENGTH	RADIUS	LINE / CHORD DIRECTION	START POINT	END POINT
L270	500+00.00	500+50.93	50.93		N63° 15' 22.58"E	N: 542,898.9435, E: 1,287,127.3305	N: 542,921.8612, E: 1,287,172.8107
C78	500+50.93	500+52.90	1.97	27.00	N65° 20' 35.97"E	N: 542,921.8612, E: 1,287,172.8107	N: 542,922.6816, E: 1,287,174.5980
L271	500+52.90	500+88.09	35.20		N67° 25' 49.37"E	N: 542,922.6816, E: 1,287,174.5980	N: 542,936.1908, E: 1,287,207.1004
L272	500+88.09	500+98.19	10.09		N68° 43' 50.87"E	N: 542,936.1908, E: 1,287,207.1004	N: 542,939.8525, E: 1,287,216.5070
L273	500+98.19	501+18.13	19.94		N69° 37' 21.86"E	N: 542,939.8525, E: 1,287,216.5070	N: 542,946.7963, E: 1,287,235.2009
L274	501+18.13	501+37.95	19.82		N67° 25' 49.13"E	N: 542,946.7963, E: 1,287,235.2009	N: 542,954.4026, E: 1,287,253.5012
L275	501+37.95	501+67.74	29.79		N65° 07' 28.72"E	N: 542,954.4026, E: 1,287,253.5012	N: 542,966.9342, E: 1,287,280.5286
L276	501+67.74	502+77.71	109.97		N63° 59' 04.30"E	N: 542,966.9342, E: 1,287,280.5286	N: 543,015.1684, E: 1,287,379.3557
L277	502+77.71	502+97.74	20.03		N63° 45' 09.84"E	N: 543,015.1684, E: 1,287,379.3557	N: 543,024.0264, E: 1,287,397.3202
L278	502+97.74	503+37.76	40.02		N64° 45' 02.02"E	N: 543,024.0264, E: 1,287,397.3202	N: 543,041.0971, E: 1,287,433.5161

MATCHLINE - SEE SHEET NO. GG-11



BOWIE MILL ROAD TRAIL 12 - CONT'D							
C76	486+35.13	486+74.96	39.83	500.00	N66° 07' 00.03"E	N: 542,630.4509, E: 1,286,566.1311	N: 542,646.5724, E: 1,286,602.5399
L264	486+74.96	486+86.35	11.39		N63° 50' 04.74"E	N: 542,646.5724, E: 1,286,602.5399	N: 542,651.5965, E: 1,286,612.7659
L265	486+86.35	491+05.78	419.43		N63° 48' 56.62"E	N: 542,651.5965, E: 1,286,612.7659	N: 542,836.6744, E: 1,286,989.1545
L266	491+05.78	491+22.56	16.78		N61° 42' 19.40"E	N: 542,836.6744, E: 1,286,989.1545	N: 542,844.6268, E: 1,287,003.9270
C77	491+22.56	491+29.53	6.97	200.00	N62° 42' 11.81"E	N: 542,844.6268, E: 1,287,003.9270	N: 542,847.8215, E: 1,287,010.1176
L267	491+29.53	491+85.35	55.82		N63° 42' 04.23"E	N: 542,847.8215, E: 1,287,010.1176	N: 542,872.5527, E: 1,287,060.1599
L268	491+85.35	492+13.27	27.93		N60° 05' 01.81"E	N: 542,872.5527, E: 1,287,060.1599	N: 542,886.4798, E: 1,287,084.3641
L269	492+13.27	492+30.80	17.53		N60° 05' 01.81"E	N: 542,886.4798, E: 1,287,084.3641	N: 542,895.2217, E: 1,287,099.5569

NOTES:

1. BASELINE OF CONSTRUCTION IS SET AT EXISTING ROADWAY CENTERLINES.
2. SEPARATE TRAIL ALIGNMENTS AND PROFILES ARE PROVIDED BECAUSE SHARED USE PATH ALIGNMENT DOES NOT PARALLEL ROADWAY BASELINE.

90% DESIGN
NOT FOR CONSTRUCTION

NO.	REVISION	DATE	BY

MONTGOMERY COUNTY
DEPARTMENT OF TRANSPORTATION
GAITHERSBURG, MARYLAND

RECOMMENDED FOR APPROVAL

Chief, Design Section — Date

APPROVED

Chief, Division of Transportation Engineering — Date

Designed by: ADH Drawn by: TMB Checked by: JJR

GG-11
GRADES AND GEOMETRICS
BOWIE MILL ROAD BIKEWAY

M-NCPPC PERMIT NO. MR2023016 SHA TRACKING NO. 24APMO039XX

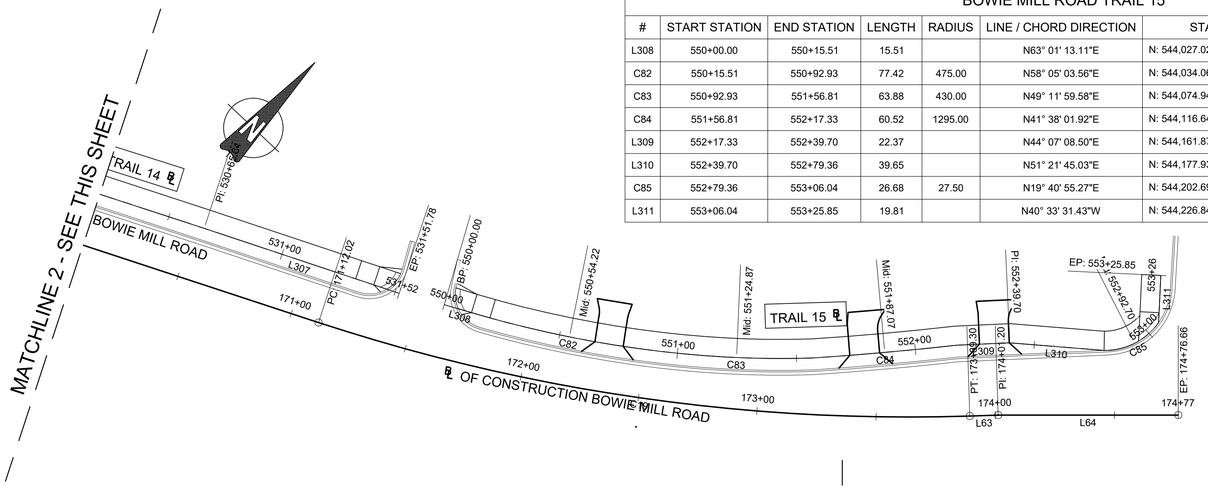
0 30' 60'

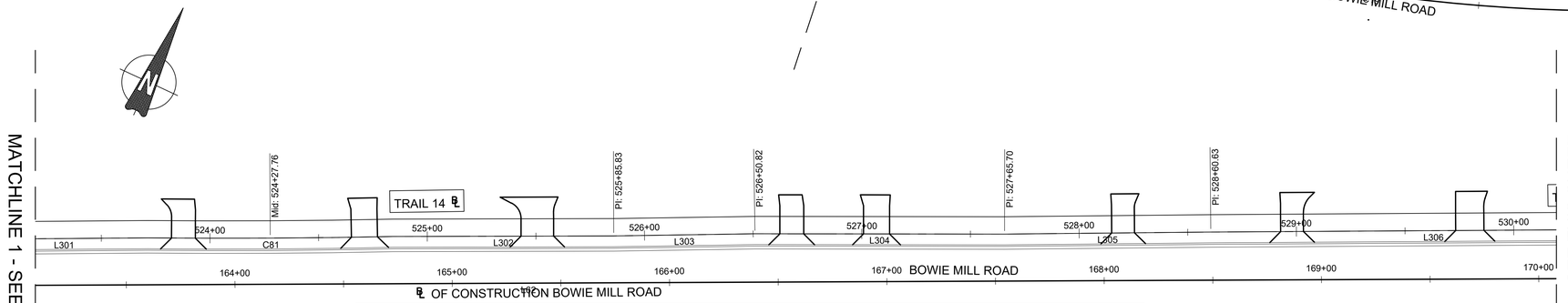
SCALE: 1"=30' DATE: APRIL 2025

Project No. : 502108 Sheet 37 of 393

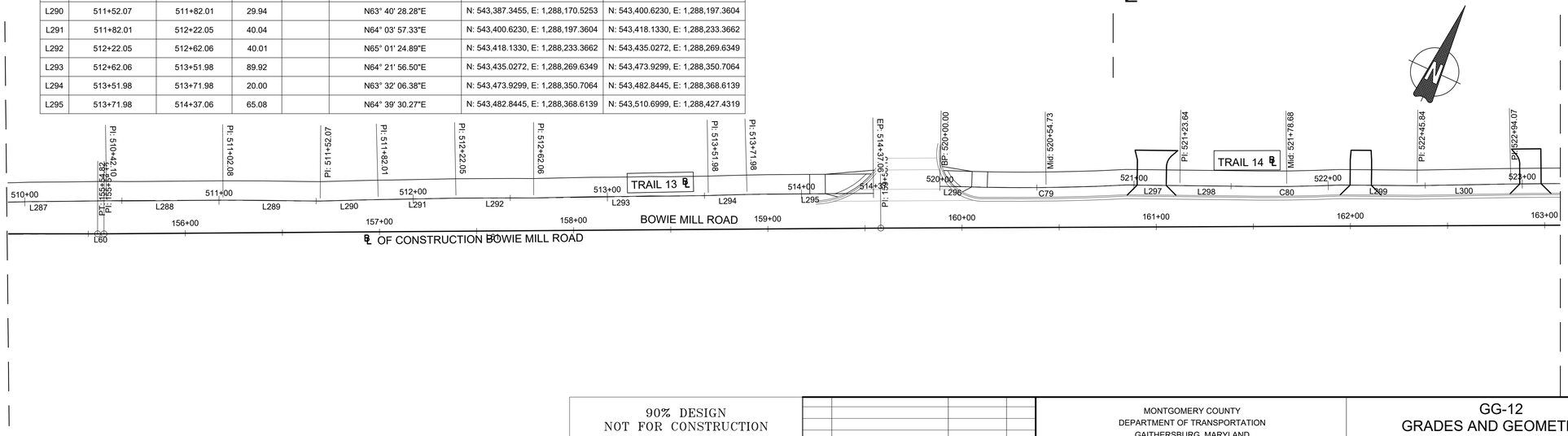
BOWIE MILL ROAD TRAIL 14							
#	START STATION	END STATION	LENGTH	RADIUS	LINE / CHORD DIRECTION	START POINT	END POINT
L296	520+00.00	520+13.41	13.41		N66° 12' 00.44"E	N: 543,528.3373, E: 1,288,456.9108	N: 543,533.7495, E: 1,288,469.1820
C79	520+13.41	520+96.04	82.63	1025.00	N64° 30' 21.81"E	N: 543,533.7495, E: 1,288,469.1820	N: 543,569.3056, E: 1,288,543.7472
L297	520+96.04	521+23.64	27.60		N65° 48' 13.49"E	N: 543,569.3056, E: 1,288,543.7472	N: 543,580.6185, E: 1,288,568.9240
L298	521+23.64	521+51.25	27.60		N65° 48' 13.49"E	N: 543,580.6185, E: 1,288,568.9240	N: 543,591.9315, E: 1,288,594.1008
C80	521+51.25	522+06.12	54.87	870.00	N64° 31' 33.66"E	N: 543,591.9315, E: 1,288,594.1008	N: 543,615.5284, E: 1,288,643.6307
L299	522+06.12	522+45.84	39.72		N65° 36' 26.02"E	N: 543,615.5284, E: 1,288,643.6307	N: 543,631.9320, E: 1,288,679.8042
L300	522+45.84	522+94.07	48.23		N64° 07' 44.37"E	N: 543,631.9320, E: 1,288,679.8042	N: 543,652.9763, E: 1,288,723.1991
L301	522+94.07	523+71.19	77.12		N64° 41' 03.76"E	N: 543,652.9763, E: 1,288,723.1991	N: 543,685.9532, E: 1,288,792.9132
C81	523+71.19	524+84.33	113.15	3780.00	N64° 50' 26.29"E	N: 543,685.9532, E: 1,288,792.9132	N: 543,734.0543, E: 1,288,895.3216
L302	524+84.33	525+85.83	101.50		N64° 59' 41.06"E	N: 543,734.0543, E: 1,288,895.3216	N: 543,776.9570, E: 1,288,987.3047
L303	525+85.83	526+50.82	64.99		N64° 18' 06.17"E	N: 543,776.9570, E: 1,288,987.3047	N: 543,805.1403, E: 1,289,045.8699
L304	526+50.82	527+65.70	114.88		N65° 12' 54.69"E	N: 543,805.1403, E: 1,289,045.8699	N: 543,853.2994, E: 1,289,150.1682
L305	527+65.70	528+60.63	94.93		N64° 35' 48.30"E	N: 543,853.2994, E: 1,289,150.1682	N: 543,894.0217, E: 1,289,235.9167
L306	528+60.63	530+65.64	205.01		N64° 47' 20.47"E	N: 543,894.0217, E: 1,289,235.9167	N: 543,981.3467, E: 1,289,421.3995
L307	530+65.64	531+51.78	86.14		N65° 10' 22.00"E	N: 543,981.3467, E: 1,289,421.3995	N: 544,017.5160, E: 1,289,499.5794

BOWIE MILL ROAD TRAIL 15							
#	START STATION	END STATION	LENGTH	RADIUS	LINE / CHORD DIRECTION	START POINT	END POINT
L308	550+00.00	550+15.51	15.51		N63° 01' 13.11"E	N: 544,027.0242, E: 1,289,516.5886	N: 544,034.0607, E: 1,289,530.4107
C82	550+15.51	550+92.93	77.42	475.00	N58° 05' 03.56"E	N: 544,034.0607, E: 1,289,530.4107	N: 544,074.9438, E: 1,289,596.0521
C83	550+92.93	551+56.81	63.88	430.00	N49° 11' 59.58"E	N: 544,074.9438, E: 1,289,596.0521	N: 544,116.6449, E: 1,289,644.3630
C84	551+56.81	552+17.33	60.52	1295.00	N41° 38' 01.92"E	N: 544,116.6449, E: 1,289,644.3630	N: 544,161.8766, E: 1,289,684.5694
L309	552+17.33	552+39.70	22.37		N44° 07' 08.50"E	N: 544,161.8766, E: 1,289,684.5694	N: 544,177.9392, E: 1,289,700.1456
L310	552+39.70	552+79.36	39.65		N51° 21' 45.03"E	N: 544,177.9392, E: 1,289,700.1456	N: 544,202.6994, E: 1,289,731.1205
C85	552+79.36	553+06.04	26.68	27.50	N19° 40' 55.27"E	N: 544,202.6994, E: 1,289,731.1205	N: 544,226.8466, E: 1,289,739.7579
L311	553+06.04	553+25.85	19.81		N40° 33' 31.43"W	N: 544,226.8466, E: 1,289,739.7579	N: 544,241.8964, E: 1,289,726.8775





BOWIE MILL ROAD TRAIL 13 - CONT'D							
#	START STATION	END STATION	LENGTH	RADIUS	LINE / CHORD DIRECTION	START POINT	END POINT
L287	509+72.10	510+42.10	69.99		N64° 22' 19.33"E	N: 543,311.0289, E: 1,288,007.5519	N: 543,341.3022, E: 1,288,070.6580
L288	510+42.10	511+02.08	59.99		N64° 53' 24.55"E	N: 543,341.3022, E: 1,288,070.6580	N: 543,366.7587, E: 1,288,124.9774
L289	511+02.08	511+52.07	49.98		N65° 40' 40.42"E	N: 543,366.7587, E: 1,288,124.9774	N: 543,387.3455, E: 1,288,170.5253
L290	511+52.07	511+82.01	29.94		N63° 40' 28.28"E	N: 543,387.3455, E: 1,288,170.5253	N: 543,400.6230, E: 1,288,197.3604
L291	511+82.01	512+22.05	40.04		N64° 03' 57.33"E	N: 543,400.6230, E: 1,288,197.3604	N: 543,418.1330, E: 1,288,233.3662
L292	512+22.05	512+62.06	40.01		N65° 01' 24.89"E	N: 543,418.1330, E: 1,288,233.3662	N: 543,435.0272, E: 1,288,269.6349
L293	512+62.06	513+51.98	89.92		N64° 21' 56.50"E	N: 543,435.0272, E: 1,288,269.6349	N: 543,473.9299, E: 1,288,350.7064
L294	513+51.98	513+71.98	20.00		N63° 32' 06.38"E	N: 543,473.9299, E: 1,288,350.7064	N: 543,482.8445, E: 1,288,368.6139
L295	513+71.98	514+37.06	65.08		N64° 39' 30.27"E	N: 543,482.8445, E: 1,288,368.6139	N: 543,510.6999, E: 1,288,427.4319



NOTES:

1. BASELINE OF CONSTRUCTION IS SET AT EXISTING ROADWAY CENTERLINES.
2. SEPARATE TRAIL ALIGNMENTS AND PROFILES ARE PROVIDED BECAUSE SHARED USE PATH ALIGNMENT DOES NOT PARALLEL ROADWAY BASELINE.

90% DESIGN
NOT FOR CONSTRUCTION

NO.	REVISION	DATE	BY

MONTGOMERY COUNTY
DEPARTMENT OF TRANSPORTATION
GAITHERSBURG, MARYLAND

RECOMMENDED FOR APPROVAL

Chief, Design Section — Date

APPROVED

Chief, Division of Transportation Engineering — Date

Designed by: ADH Drawn by: TMB Checked by: JJR

GG-12
GRADES AND GEOMETRICS
BOWIE MILL ROAD
BIKEWAY

M-NCPPC PERMIT NO. MR2023016 SHA TRACKING NO. 24APMO039XX

0 30' 60'
SCALE: 1"=30'

DATE: APRIL 2025

Project No. : 502108 Sheet 38 of 393

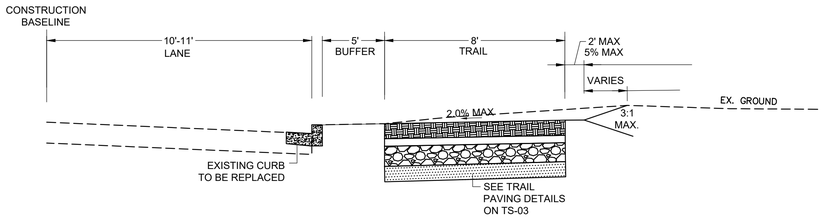
PLNEY.LA

FILE NAME: C:\pwworking\jmt\d0642115\pGG_Bowie Mill Road.dwg LAYOUT NAME: GG-12 PLOTTED: Monday, April 07, 2025 - 2:11pm USER: AHavener

TYPICAL SECTION

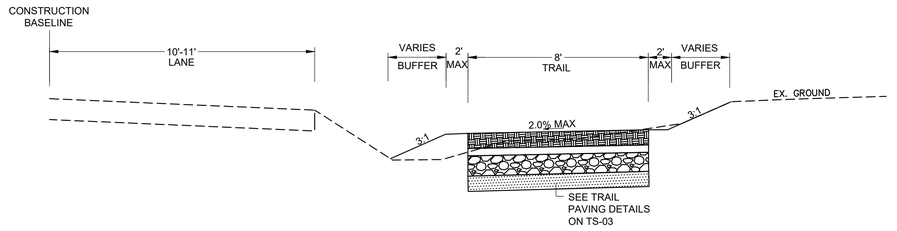
MUNCASTER MILL ROAD
STA. 200+80 TO STA. 206+25

BOWIE MILL ROAD
STA. 0+50 TO STA. 0+90
STA. 3+50 TO STA. 4+00
STA. 19+00
STA. 89+00 TO STA. 92+50
STA. 93+50 TO STA. 96+05
STA. 105+00 TO STA. 105+75



TYPICAL SECTION

BOWIE MILL ROAD
STA. 7+55 TO STA. 18+95
STA. 23+00
STA. 29+50 TO STA. 35+00
STA. 72+00
STA. 84+50
STA. 93+00



IMPERVIOUS TRAIL PAVEMENT LOCATIONS

MUNCASTER MILL ROAD
STA. 200+80 TO STA. 206+25

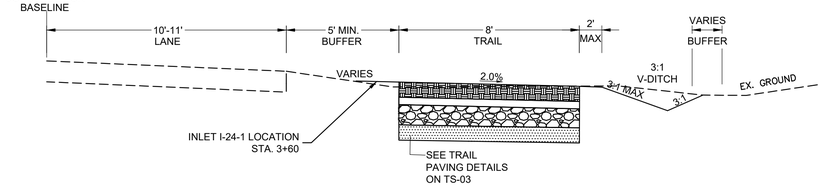
BOWIE MILL ROAD - SOUTH SIDE
STA. 0+43 TO STA. 7+00 (TRAIL 2)
STA. 34+58 TO STA. 35+27 (TRAIL 5)
STA. 35+85 TO STA. 37+00 (TRAIL 6)
STA. 37+20 TO STA. 39+50 (TRAIL 6)
STA. 42+00 TO STA. 48+62 (TRAIL 6)
STA. 51+00 TO STA. 51+35 (TRAIL 7)
STA. 51+48 TO STA. 54+45 (TRAIL 7)
STA. 54+52 TO STA. 56+45 (TRAIL 7)
STA. 56+55 TO STA. 57+80 (TRAIL 7)
STA. 95+40 TO STA. 104+84 (TRAIL 8)
STA. 105+00 TO STA. 106+00 (TRAIL 8)
STA. 102+00 TO STA. 106+00 (TRAIL 9)
STA. 171+82 TO STA. 172+31 (TRAIL 15)
STA. 172+45 TO STA. 173+42 (TRAIL 15)
STA. 173+54 TO STA. 173+95 (TRAIL 15)
STA. 174+06 TO STA. 174+50 (TRAIL 15)

PERVIOUS TRAIL PAVEMENT LOCATIONS

BOWIE MILL ROAD
STA. 7+65 TO STA. 19+00 (TRAIL 3)
STA. 19+77 TO STA. 21+00 (TRAIL 4)
STA. 21+64 TO STA. 27+71 (TRAIL 5)
STA. 27+83 TO STA. 29+33 (TRAIL 5)
STA. 29+43 TO STA. 32+64 (TRAIL 5)
STA. 33+00 TO STA. 34+58 (TRAIL 5)
STA. 39+50 TO STA. 42+00 (TRAIL 6)
STA. 49+34 TO STA. 51+00 (TRAIL 7)
STA. 57+80 TO STA. 59+38 (TRAIL 7)
STA. 59+50 TO STA. 62+12 (TRAIL 7)
STA. 62+28 TO STA. 63+45 (TRAIL 7)
STA. 63+55 TO STA. 64+88 (TRAIL 7)
STA. 65+00 TO STA. 66+82 (TRAIL 7)
STA. 66+94 TO STA. 71+80 (TRAIL 7)
STA. 72+06 TO STA. 75+30 (TRAIL 7)
STA. 75+45 TO STA. 76+80 (TRAIL 7)
STA. 76+95 TO STA. 77+75 (TRAIL 7)
STA. 77+90 TO STA. 79+60 (TRAIL 7)
STA. 79+70 TO STA. 80+30 (TRAIL 7)
STA. 80+40 TO STA. 84+37 (TRAIL 7)
STA. 84+55 TO STA. 88+25 (TRAIL 7)
STA. 88+80 TO STA. 91+87 (TRAIL 8)
STA. 92+08 TO STA. 95+40 (TRAIL 8)
STA. 106+61 TO STA. 125+76 (TRAIL 10)
STA. 126+50 TO STA. 135+43 (TRAIL 11)
STA. 135+59 TO STA. 137+12 (TRAIL 11)
STA. 137+87 TO STA. 144+68 (TRAIL 12)
STA. 145+41 TO STA. 159+24 (TRAIL 13)
STA. 160+12 TO STA. 160+93 (TRAIL 14)
STA. 161+06 TO STA. 162+00 (TRAIL 14)
STA. 162+15 TO STA. 162+89 (TRAIL 14)
STA. 163+00 TO STA. 163+72 (TRAIL 14)
STA. 163+88 TO STA. 164+55 (TRAIL 14)
STA. 164+70 TO STA. 165+33 (TRAIL 14)
STA. 165+48 TO STA. 166+53 (TRAIL 14)
STA. 166+63 TO STA. 166+92 (TRAIL 14)
STA. 167+05 TO STA. 168+04 (TRAIL 14)
STA. 168+17 TO STA. 168+82 (TRAIL 14)
STA. 168+96 TO STA. 169+63 (TRAIL 14)
STA. 169+80 TO STA. 170+25 (TRAIL 14)

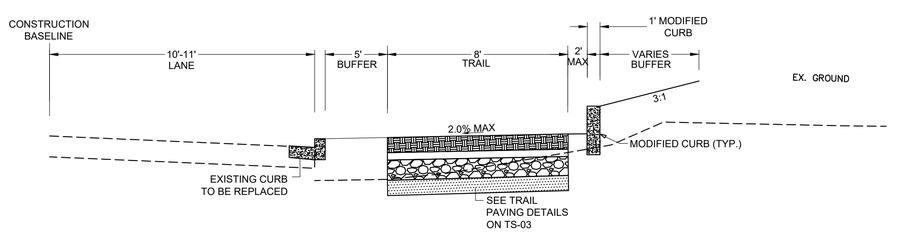
TYPICAL SECTION

BOWIE MILL ROAD
STA. 0+90 TO STA. 4+05



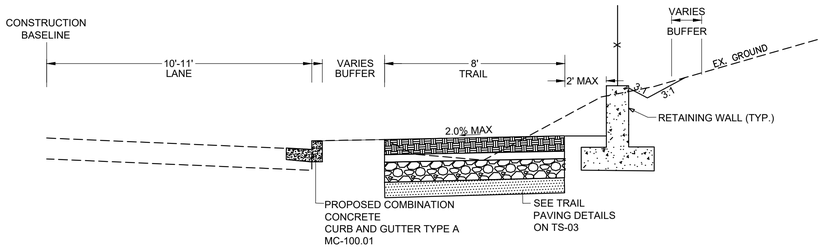
TYPICAL SECTION

BOWIE MILL ROAD
STA. 22+00 TO STA. 22+50
STA. 103+00 TO STA. 104+50



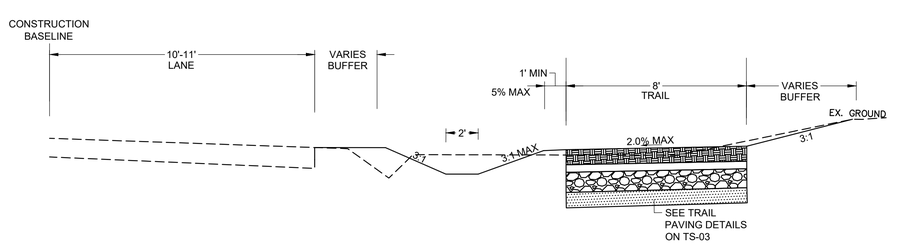
TYPICAL SECTION

BOWIE MILL ROAD
STA. 4+05 TO STA. 6+50



TYPICAL SECTION

BOWIE MILL ROAD
STA. 23+50 TO STA. 29+00
STA. 77+50 - STA. 84+50



NOTES:
1. REFER TO STANDARD MC-811.01 FOR SLOPE ROUNDING DETAILS.
2. TYPICAL SECTIONS INCLUDE MINIMUM ONE-FOOT WIDE GRADED SHOULDER TO MINIMIZE IMPACTS WITHIN SPECIAL PROTECTION AREA AND RESIDENTIAL AREAS.
3. A MINIMUM TWO-FOOT WIDE AREA CLEAR OF OBSTRUCTIONS SHALL BE PROVIDED ADJACENT TO PROPOSED BIKEWAY.

90% DESIGN
NOT FOR CONSTRUCTION

NO.	REVISION	DATE	BY

MONTGOMERY COUNTY
DEPARTMENT OF TRANSPORTATION
GAITHERSBURG, MARYLAND

RECOMMENDED FOR APPROVAL

Chief, Design Section — Date

APPROVED

Chief, Division of Transportation Engineering — Date

Designed by: ADH Drawn by: TMB Checked by: JJR

TS-01
TYPICAL SECTIONS
BOWIE MILL ROAD BIKEWAY

M-NCPPC PERMIT NO. MR2023016 SHA TRACKING NO. 24APMO039XX

DATE: APRIL 2025

Project No. : 502108 Sheet 39 of 393

FILE NAME: C:\pwworking\jmt\d0642115\pHT_Bowie Mill Road_Typical Sections.dwg LAYOUT NAME: TS-01 PLOTTED: Monday, April 07, 2025 - 2:11pm USER: AHavener

IMPERVIOUS TRAIL PAVEMENT LOCATIONS

MUNCASTER MILL ROAD
STA. 200+80 TO STA. 206+25

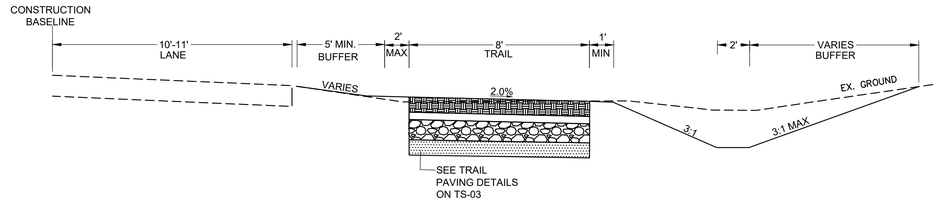
BOWIE MILL ROAD - SOUTH SIDE
STA. 0+43 TO STA. 7+00 (TRAIL 2)
STA. 34+58 TO STA. 35+27 (TRAIL 5)
STA. 35+85 TO STA. 37+00 (TRAIL 6)
STA. 37+20 TO STA. 39+50 (TRAIL 6)
STA. 42+00 TO STA. 48+62 (TRAIL 6)
STA. 51+00 TO STA. 51+35 (TRAIL 7)
STA. 51+48 TO STA. 54+45 (TRAIL 7)
STA. 54+52 TO STA. 56+45 (TRAIL 7)
STA. 56+55 TO STA. 57+80 (TRAIL 7)
STA. 95+40 TO STA. 104+84 (TRAIL 8)
STA. 105+00 TO STA. 106+00 (TRAIL 8)
STA. 102+00 TO STA. 106+00 (TRAIL 9)
STA. 171+82 TO STA. 172+31 (TRAIL 15)
STA. 172+45 TO STA. 173+42 (TRAIL 15)
STA. 173+54 TO STA. 173+95 (TRAIL 15)
STA. 174+06 TO STA. 174+50 (TRAIL 15)

PERVIOUS TRAIL PAVEMENT LOCATIONS

BOWIE MILL ROAD
STA. 7+65 TO STA. 19+00 (TRAIL 3)
STA. 19+77 TO STA. 21+00 (TRAIL 4)
STA. 21+64 TO STA. 27+71 (TRAIL 5)
STA. 27+83 TO STA. 29+33 (TRAIL 5)
STA. 29+43 TO STA. 32+64 (TRAIL 5)
STA. 33+00 TO STA. 34+58 (TRAIL 5)
STA. 39+50 TO STA. 42+00 (TRAIL 6)
STA. 49+34 TO STA. 51+00 (TRAIL 7)
STA. 57+80 TO STA. 59+38 (TRAIL 7)
STA. 59+50 TO STA. 62+12 (TRAIL 7)
STA. 62+28 TO STA. 63+45 (TRAIL 7)
STA. 63+55 TO STA. 64+88 (TRAIL 7)
STA. 65+00 TO STA. 66+82 (TRAIL 7)
STA. 66+94 TO STA. 71+80 (TRAIL 7)
STA. 72+06 TO STA. 75+30 (TRAIL 7)
STA. 75+45 TO STA. 76+80 (TRAIL 7)
STA. 76+95 TO STA. 77+75 (TRAIL 7)
STA. 77+90 TO STA. 79+60 (TRAIL 7)
STA. 79+70 TO STA. 80+30 (TRAIL 7)
STA. 80+40 TO STA. 84+37 (TRAIL 7)
STA. 84+55 TO STA. 88+25 (TRAIL 7)
STA. 88+80 TO STA. 91+87 (TRAIL 8)
STA. 92+08 TO STA. 95+40 (TRAIL 8)
STA. 106+61 TO STA. 125+76 (TRAIL 10)
STA. 126+50 TO STA. 135+43 (TRAIL 11)
STA. 135+59 TO STA. 137+12 (TRAIL 11)
STA. 137+87 TO STA. 144+68 (TRAIL 12)
STA. 145+41 TO STA. 159+24 (TRAIL 13)
STA. 160+12 TO STA. 160+93 (TRAIL 14)
STA. 161+06 TO STA. 162+00 (TRAIL 14)
STA. 162+15 TO STA. 162+89 (TRAIL 14)
STA. 163+00 TO STA. 163+72 (TRAIL 14)
STA. 163+88 TO STA. 164+55 (TRAIL 14)
STA. 164+70 TO STA. 165+33 (TRAIL 14)
STA. 165+48 TO STA. 166+53 (TRAIL 14)
STA. 166+63 TO STA. 166+92 (TRAIL 14)
STA. 167+05 TO STA. 168+04 (TRAIL 14)
STA. 168+17 TO STA. 168+82 (TRAIL 14)
STA. 168+96 TO STA. 169+63 (TRAIL 14)
STA. 169+80 TO STA. 170+25 (TRAIL 14)

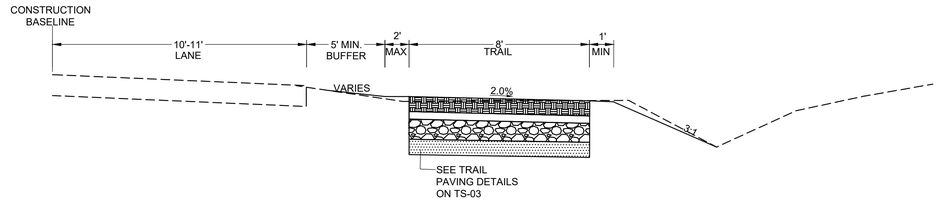
TYPICAL SECTION

BOWIE MILL ROAD
STA. 36+00 TO STA. 47+50
STA. 49+50 TO STA. 71+50



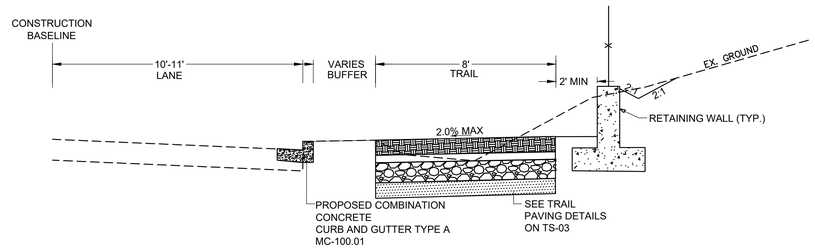
TYPICAL SECTION

BOWIE MILL ROAD
STA. 48+00
STA. 72+50 TO STA. 77+00
STA. 96+05 TO STA. 102+00



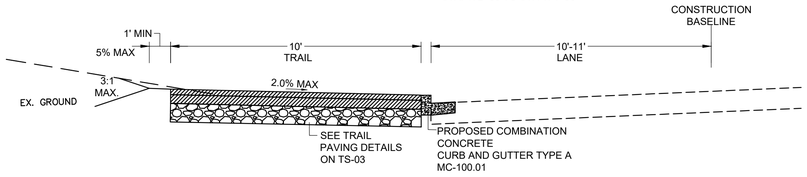
TYPICAL SECTION

BOWIE MILL ROAD
STA. 85+00 TO STA. 87+50



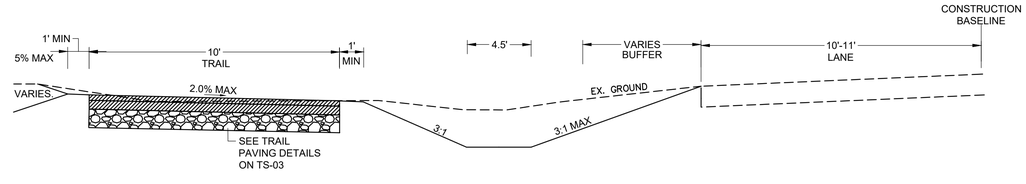
TYPICAL SECTION

BOWIE MILL ROAD
STA. 107+00 TO STA. 115+50
STA. 122+50 TO STA. 125+50
STA. 126+50 TO STA. 131+00
STA. 161+00 TO STA. 171+00
STA. 172+50 TO STA 174+50



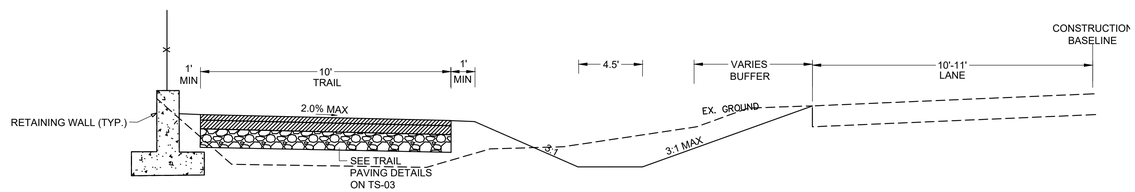
TYPICAL SECTION

BOWIE MILL ROAD
STA. 116+00 TO STA. 117+50



TYPICAL SECTION

BOWIE MILL ROAD
STA. 118+00 TO STA. 122+00



NOTES:
1. REFER TO STANDARD MC-811.01 FOR SLOPE ROUNDING DETAILS.
2. TYPICAL SECTIONS INCLUDE MINIMUM ONE-FOOT WIDE GRADED SHOULDER TO MINIMIZE IMPACTS WITHIN SPECIAL PROTECTION AREA AND RESIDENTIAL AREAS.
3. A MINIMUM TWO-FOOT WIDE AREA CLEAR OF OBSTRUCTIONS SHALL BE PROVIDED ADJACENT TO PROPOSED BIKEWAY.

90% DESIGN
NOT FOR CONSTRUCTION

NO.	REVISION	DATE	BY

MONTGOMERY COUNTY
DEPARTMENT OF TRANSPORTATION
GAITHERSBURG, MARYLAND

RECOMMENDED FOR APPROVAL

Chief, Design Section — Date

APPROVED

Chief, Division of Transportation Engineering — Date

Designed by: ADH Drawn by: TMB Checked by: JJR

TS-02
TYPICAL SECTIONS
BOWIE MILL ROAD BIKEWAY

M-NCPPC PERMIT NO. MR2023016 SHA TRACKING NO. 24APMO039XX

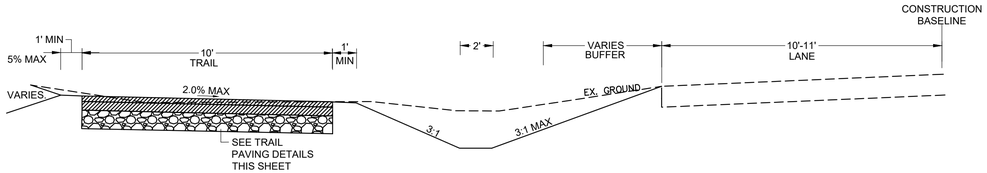
DATE: APRIL 2025

Project No. : 502108 Sheet 40 of 393

FILE NAME: C:\pwworking\jmt\d0642115\pHT_Bowie Mill Road_Typical Sections.dwg LAYOUT NAME: TS-02 PLOTTED: Monday, April 07, 2025 - 2:11pm USER: AHavener

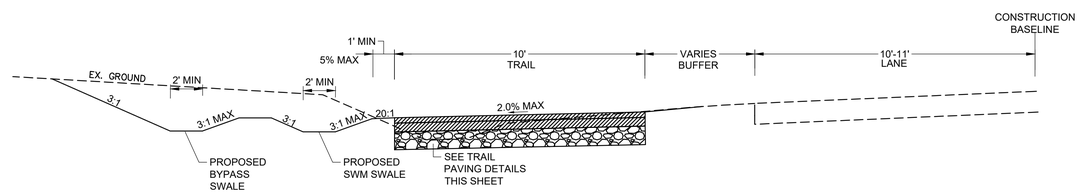
TYPICAL SECTION

BOWIE MILL ROAD
STA. 131+50 TO STA. 137+00



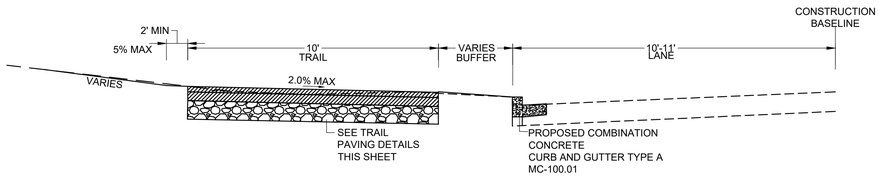
TYPICAL SECTION

BOWIE MILL ROAD
STA. 152+00 TO STA. 157+50



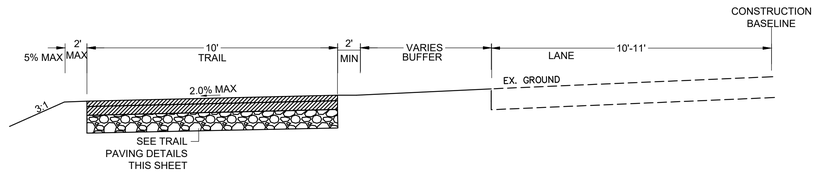
TYPICAL SECTION

BOWIE MILL ROAD
STA. 138+00



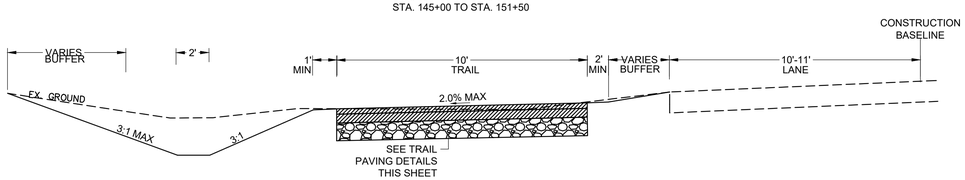
TYPICAL SECTION

BOWIE MILL ROAD
STA. 158+00 TO STA. 159+00



TYPICAL SECTION

BOWIE MILL ROAD
STA. 138+50 TO STA. 144+00
STA. 145+00 TO STA. 151+50



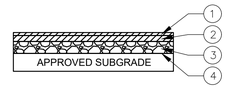
IMPERVIOUS TRAIL PAVEMENT LOCATIONS

MUNCASTER MILL ROAD
STA. 200+80 TO STA. 206+25

BOWIE MILL ROAD - SOUTH SIDE
STA. 0+43 TO STA. 7+00 (TRAIL 2)
STA. 34+58 TO STA. 35+27 (TRAIL 5)
STA. 35+85 TO STA. 37+00 (TRAIL 6)
STA. 37+20 TO STA. 39+50 (TRAIL 6)
STA. 42+00 TO STA. 48+62 (TRAIL 6)
STA. 51+00 TO STA. 51+35 (TRAIL 7)
STA. 51+48 TO STA. 54+45 (TRAIL 7)
STA. 54+52 TO STA. 56+45 (TRAIL 7)
STA. 56+55 TO STA. 57+80 (TRAIL 7)
STA. 95+40 TO STA. 104+84 (TRAIL 8)
STA. 105+00 TO STA. 106+00 (TRAIL 8)
STA. 102+00 TO STA. 106+00 (TRAIL 9)
STA. 171+82 TO STA. 172+31 (TRAIL 15)
STA. 172+45 TO STA. 173+42 (TRAIL 15)
STA. 173+54 TO STA. 173+95 (TRAIL 15)
STA. 174+06 TO STA. 174+50 (TRAIL 15)

PERVIOUS TRAIL PAVEMENT LOCATIONS

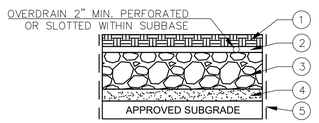
BOWIE MILL ROAD
STA. 7+65 TO STA. 19+00 (TRAIL 3)
STA. 19+77 TO STA. 21+00 (TRAIL 4)
STA. 21+64 TO STA. 27+71 (TRAIL 5)
STA. 27+83 TO STA. 29+33 (TRAIL 5)
STA. 29+43 TO STA. 32+64 (TRAIL 5)
STA. 33+00 TO STA. 34+58 (TRAIL 5)
STA. 39+50 TO STA. 42+00 (TRAIL 6)
STA. 49+34 TO STA. 51+00 (TRAIL 7)
STA. 57+80 TO STA. 59+38 (TRAIL 7)
STA. 59+50 TO STA. 62+12 (TRAIL 7)
STA. 62+28 TO STA. 63+45 (TRAIL 7)
STA. 63+55 TO STA. 64+88 (TRAIL 7)
STA. 65+00 TO STA. 66+82 (TRAIL 7)
STA. 66+94 TO STA. 71+80 (TRAIL 7)
STA. 72+06 TO STA. 75+30 (TRAIL 7)
STA. 75+45 TO STA. 76+80 (TRAIL 7)
STA. 76+95 TO STA. 77+75 (TRAIL 7)
STA. 77+90 TO STA. 79+60 (TRAIL 7)
STA. 79+70 TO STA. 80+30 (TRAIL 7)
STA. 80+40 TO STA. 84+37 (TRAIL 7)
STA. 84+55 TO STA. 88+25 (TRAIL 7)
STA. 88+80 TO STA. 91+87 (TRAIL 8)
STA. 92+08 TO STA. 95+40 (TRAIL 8)
STA. 106+61 TO STA. 125+76 (TRAIL 10)
STA. 126+50 TO STA. 135+43 (TRAIL 11)
STA. 135+59 TO STA. 137+12 (TRAIL 11)
STA. 137+87 TO STA. 144+68 (TRAIL 12)
STA. 145+41 TO STA. 159+24 (TRAIL 13)
STA. 160+12 TO STA. 160+93 (TRAIL 14)
STA. 161+06 TO STA. 162+00 (TRAIL 14)
STA. 162+15 TO STA. 162+89 (TRAIL 14)
STA. 163+00 TO STA. 163+72 (TRAIL 14)
STA. 163+88 TO STA. 164+55 (TRAIL 14)
STA. 164+70 TO STA. 165+33 (TRAIL 14)
STA. 165+48 TO STA. 166+53 (TRAIL 14)
STA. 166+63 TO STA. 166+92 (TRAIL 14)
STA. 167+05 TO STA. 168+04 (TRAIL 14)
STA. 168+17 TO STA. 168+82 (TRAIL 14)
STA. 168+96 TO STA. 169+63 (TRAIL 14)
STA. 169+80 TO STA. 170+25 (TRAIL 14)



1. 1.5" HMA SUPERPAVE 9.5MM FOR SURFACE, PG64S–22, LEVEL–2
2. 2.5" HMA SUPERPAVE 19.0MM FOR BASE, PG64S–22, LEVEL–2
3. 5" CR–6 GRADED AGGREGATE BASE COURSE
4. LIMIT OF CLASS I EXCAVATION

IMPERVIOUS TRAIL PAVEMENT DETAIL

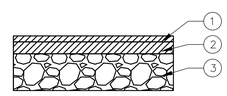
NTS



1. 4" PERVIOUS ASPHALT
2. 2" AGGREGATE BASE CONSISTING OF WASHED AASHTO NO. 3 COURSE AGGREGATE AND NO. 57 STONE
3. VARIABLE DEPTH CLEAN NO. 57 STONE. MINIMUM DEPTH 12"
4. 4" SAND, WASHED ASTM C–33 FINE AGGREGATE CONCRETE SAND.
5. GEOTEXTILE CLASS PE (TYPE III) SIDES ONLY. MIRAFI 140 N OR MCDPS APPROVED EQUIVALENT

PERVIOUS PAVEMENT DETAIL

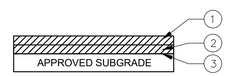
NTS



1. 3" HMA SUPERPAVE 9.5MM FOR SURFACE, PG64S–22, LEVEL–2
2. 3" HMA SUPERPAVE 19.0MM FOR BASE, PG64S–22, LEVEL–2
3. 12" GRADED AGGREGATE BASE COURSE (2 – 6" LIFTS)

FULL DEPTH PAVEMENT DETAIL

NTS



1. 3" HMA SUPERPAVE 12.5MM FOR SURFACE, PG64S–22, LEVEL 2
2. 3" HMA SUPERPAVE 19.0MM FOR BASE, PG64S–22, LEVEL 2
3. LIMIT OF CLASS I EXCAVATION

ASPHALT PAVEMENT DETAIL–DRIVEWAYS

NTS

NOTES:
1. REFER TO STANDARD MC-811.01 FOR SLOPE ROUNDING DETAILS.
2. TYPICAL SECTIONS INCLUDE MINIMUM ONE-FOOT WIDE GRADED SHOULDER TO MINIMIZE IMPACTS WITHIN SPECIAL PROTECTION AREA AND RESIDENTIAL AREAS.
3. A MINIMUM TWO-FOOT WIDE AREA CLEAR OF OBSTRUCTIONS SHALL BE PROVIDED ADJACENT TO PROPOSED BIKEWAY.

90% DESIGN
NOT FOR CONSTRUCTION

NO.	REVISION	DATE	BY

MONTGOMERY COUNTY
DEPARTMENT OF TRANSPORTATION
GAITHERSBURG, MARYLAND

RECOMMENDED FOR APPROVAL

Chief, Design Section — Date

APPROVED

Chief, Division of Transportation Engineering — Date

Designed by: ADH Drawn by: TMB Checked by: JJR

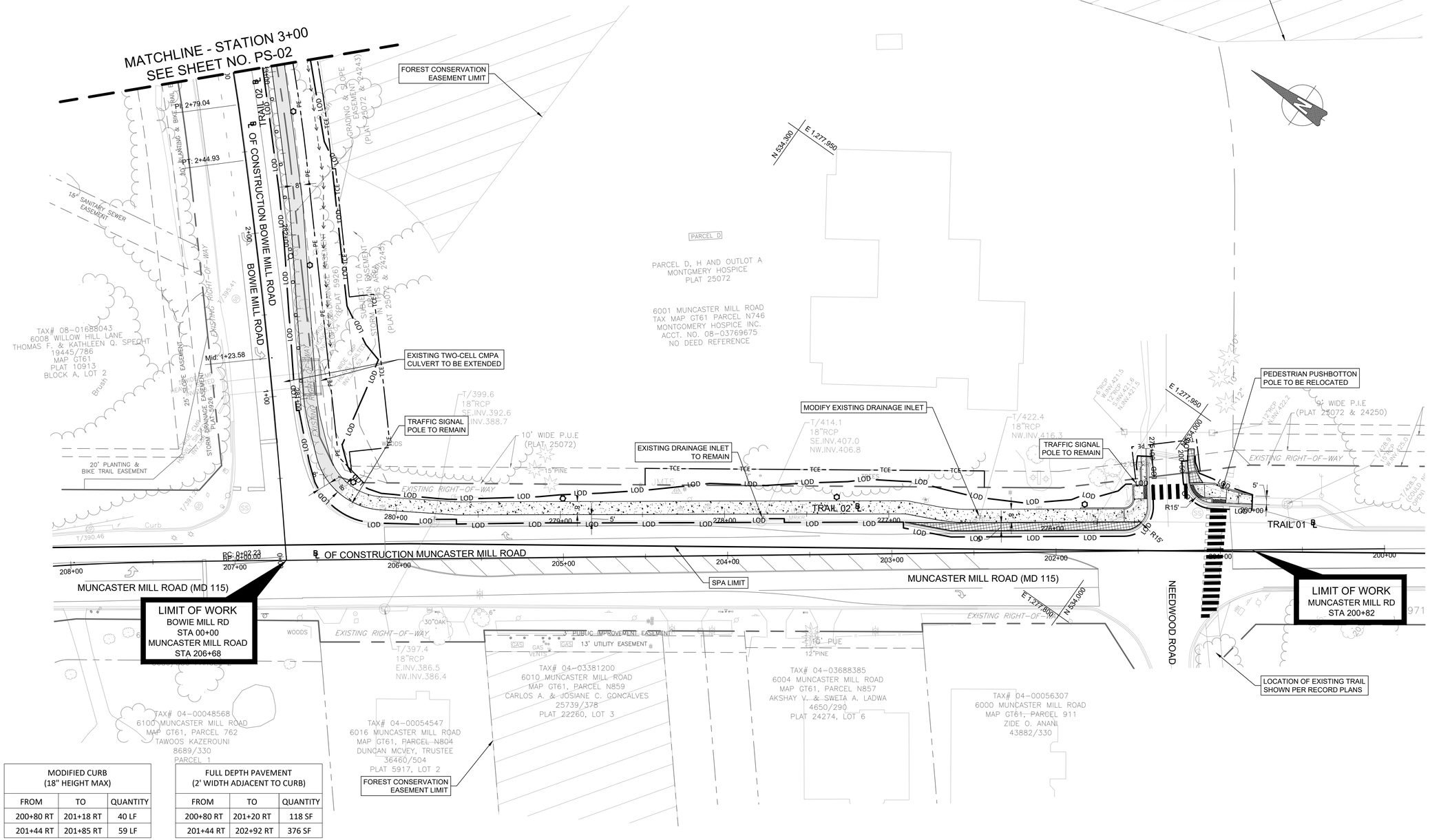
TS-03
TYPICAL SECTIONS
BOWIE MILL ROAD BIKEWAY

M-NCPPC PERMIT NO. MR2023016 SHA TRACKING NO. 24APMO039XX

DATE: APRIL 2025

Project No. : 502108 Sheet 41 of 393

FILE NAME: C:\pwworking\jmt\d0642115\pHT_Bowie Mill Road_Typical Sections.dwg LAYOUT NAME: TS-03 PLOTTED: Monday, April 07, 2025 - 2:11pm USER: AHavener



PROPOSED ASPHALT TRAIL IMPERVIOUS		
FROM	TO	QUANTITY
0+37 RT	3+00 RT	2,112 SF

5" CONCRETE SIDEWALK		
FROM	TO	QUANTITY
200+80 RT	201+18 RT	285 SF
201+44 RT	206+35 RT	4,130 SF

DETECTABLE WARNING SURFACE (MD-655.40)	
STATION	QUANTITY
201+00 RT	16 SF
201+16 RT	20 SF
201+46 RT	16 SF

COMBINATION CONCRETE CURB AND GUTTER - TYPE A (MD 620.02)		
FROM	TO	QUANTITY
200+80 RT	201+20 RT	59 LF
201+44 RT	202+92 RT	188 LF

TRAFFIC BARRIER W-BEAM USING 6 FOOT POST (MD-605.22)		
FROM	TO	QUANTITY
0+90 RT	3+00 RT	210 LF

TRAFFIC BARRIER W-BEAM TYPE C END TREATMENT (MD-605.03)	
STATION	QUANTITY
0+90 RT	1 EA

REMOVE EXISTING PAVEMENT / SIDEWALK		
FROM	TO	QUANTITY
201+05 RT	201+19 RT	112 SF
201+48 RT	202+92 RT	621 SF

MODIFIED CURB (18" HEIGHT MAX)		
FROM	TO	QUANTITY
200+80 RT	201+18 RT	40 LF
201+44 RT	201+85 RT	59 LF

FULL DEPTH PAVEMENT (2' WIDTH ADJACENT TO CURB)		
FROM	TO	QUANTITY
200+80 RT	201+20 RT	118 SF
201+44 RT	202+92 RT	376 SF

LEGEND

- LOD — LIMIT OF DISTURBANCE
- LIMIT OF GRADING
- PROPOSED PAVEMENT MARKINGS
- TPF — TREE PROTECTION FENCE
- TCE — TEMPORARY CONSTRUCTION EASEMENT
- PE — PERPETUAL EASEMENT
- PROPOSED RETAINING WALL
- PROPOSED UTILITY POLE
- PROPOSED ASPHALT PATH/TRAIL-IMPERVIOUS
- PROPOSED ASPHALT PATH/TRAIL - PERVIOUS
- PROPOSED DRIVEWAY ASPHALT PAVEMENT
- PROPOSED PAVEMENT REMOVAL
- PROPOSED RIP-RAP SLOPE STABILIZATION
- PROPOSED CONCRETE SIDEWALK
- PROPOSED LIGHT POLE

NOTES:

1. THIS SHEET IS PARTIALLY WITHIN THE UPPER ROCK CREEK SPECIAL PROTECTION AREA
2. REFER TO SIGNAL DESIGN PLANS FOR PROPOSED MODIFICATIONS TO EXISTING SIGNAL AT INTERSECTION OF MUNCASTER MILL ROAD (MD 115) WITH NEEDWOOD ROAD.

90% DESIGN
NOT FOR CONSTRUCTION

JMT

NO.	REVISION	DATE	BY

MONTGOMERY COUNTY
DEPARTMENT OF TRANSPORTATION
GAITHERSBURG, MARYLAND

RECOMMENDED FOR APPROVAL

Chief, Design Section — Date

APPROVED

Chief, Division of Transportation Engineering — Date

Designed by: ADH Drawn by: TMB Checked by: JJR

PS-01
ROADWAY PLAN
BOWIE MILL ROAD
BIKEWAY

M-NCPPC PERMIT NO. MR2023016 SHA TRACKING NO. 24APMO039XX

0 30' 60'

SCALE: 1"=30' DATE: APRIL 2025

Project No. : 502108 Sheet 42 of 393

FILE NAME: C:\pwworking\jmt\d0642115\pHD_Bowie Mill Road.dwg LAYOUT NAME: PS-01 PLOTTED: Monday, April 07, 2025 - 2:14pm USER: AHavener

PROPOSED ASPHALT TRAIL IMPERVIOUS		
FROM	TO	QUANTITY
3+00 RT	6+88 RT	2,122 SF

PROPOSED ASPHALT TRAIL PERVIOUS		
FROM	TO	QUANTITY
7+66 RT	11+00 RT	2,667 SF

DETECTABLE WARNING SURFACE (MD-655.40)	
STATION	QUANTITY
7+14 RT	18 SF
7+55 RT	17 SF
7+80 RT	10 SF

REMOVE EXISTING PAVEMENT / SIDEWALK		
FROM	TO	QUANTITY
6+94 RT	7+15 RT	20 SF
7+54 RT	7+76 RT	219 SF
7+85 RT	11+00 RT	285 SF

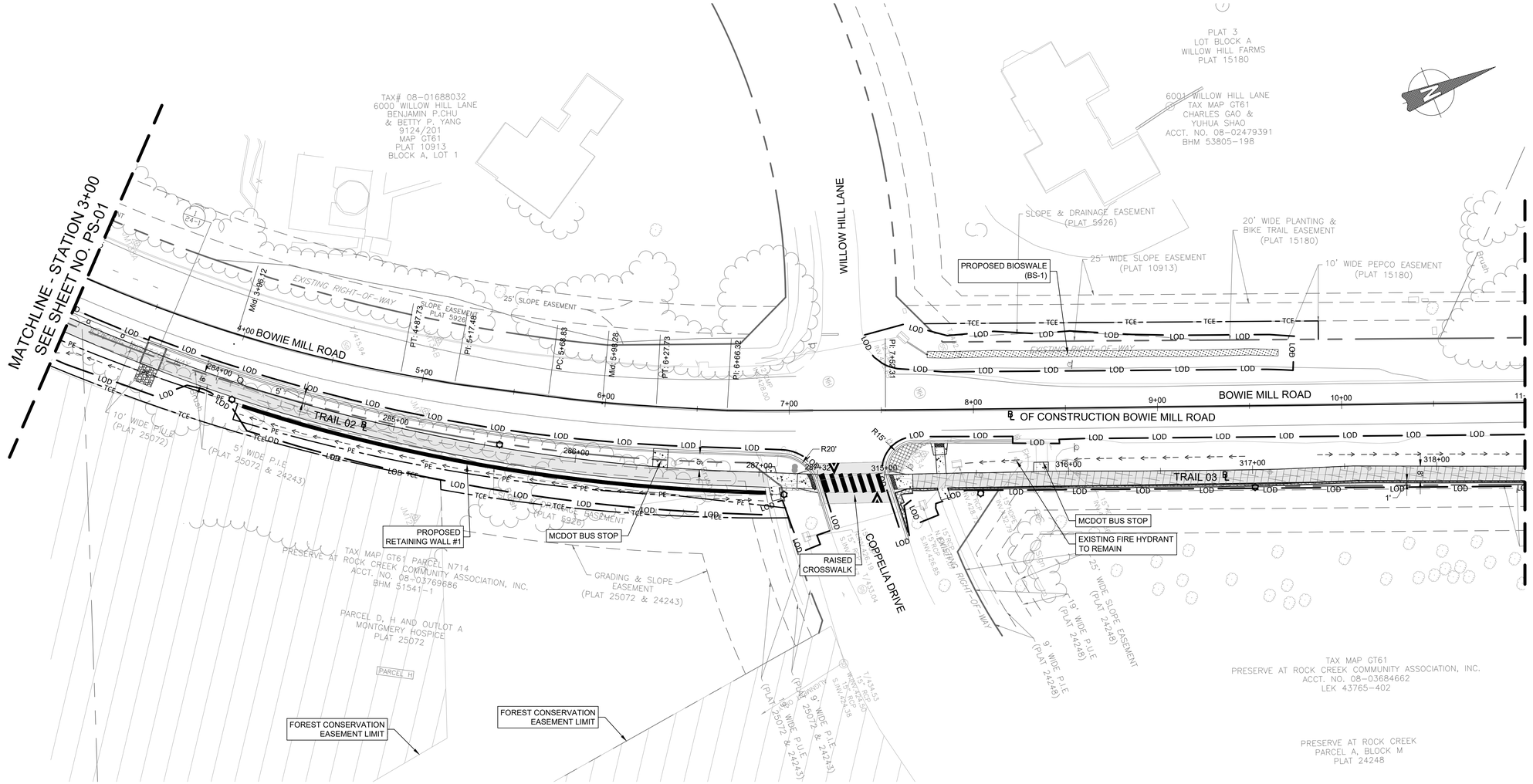
COMBINATION CONCRETE CURB AND GUTTER - TYPE A (MC-100.01)		
FROM	TO	QUANTITY
3+52 RT	7+22 RT	404 LF
7+53 RT	8+21 RT	116 LF

RESIDENTIAL SIDEWALK (MC-110.01.)		
FROM	TO	QUANTITY
6+28 RT	6+36 RT	66 SF
6+88 RT	7+14 RT	255 SF
7+55 RT	7+66 RT	93 SF
7+77 RT	7+86 RT	123 SF
8+32 RT	8+40 RT	40 SF

TRAFFIC BARRIER W-BEAM TYPE K END TREATMENT (MD-605.10)	
STATION	QUANTITY
3+52 RT	1 EA

TRAFFIC BARRIER W-BEAM USING 6-FOOT POST (MD-605.22)		
FROM	TO	QUANTITY
3+00 RT	3+52 RT	52 LF

FULL DEPTH PAVEMENT (2' WIDTH ADJACENT TO CURB)		
FROM	TO	QUANTITY
3+52 RT	7+22 RT	808 SF
7+53 RT	8+21 RT	232 SF



LEGEND

- LOD — LIMIT OF DISTURBANCE
- LIMIT OF GRADING
- PROPOSED PAVEMENT MARKINGS
- TPF — TREE PROTECTION FENCE
- TCE — TEMPORARY CONSTRUCTION EASEMENT
- PE — PERPETUAL EASEMENT
- PROPOSED RETAINING WALL
- PROPOSED UTILITY POLE
- PROPOSED ASPHALT PATH/TRAIL-IMPERVIOUS
- PROPOSED ASPHALT PATH/TRAIL - PERVIOUS
- PROPOSED DRIVEWAY ASPHALT PAVEMENT
- PROPOSED PAVEMENT REMOVAL
- PROPOSED RIP-RAP SLOPE STABILIZATION
- PROPOSED CONCRETE SIDEWALK
- PROPOSED LIGHT POLE

NOTES:

1. THIS SHEET IS WITHIN UPPER ROCK CREEK SPECIAL PROTECTION AREA
2. ALL UTILITY CONFLICTS AND RELOCATIONS WILL REQUIRE COORDINATION WITH THE APPROPRIATE UTILITY COMPANIES.
3. SEE DT-SHEETS FOR RAISED CROSSWALK DETAILS.
4. SEE ST-SERIES FOR RETAINING WALL DETAILS.

90% DESIGN
NOT FOR CONSTRUCTION

NO.	REVISION	DATE	BY

MONTGOMERY COUNTY
DEPARTMENT OF TRANSPORTATION
GAITHERSBURG, MARYLAND

RECOMMENDED FOR APPROVAL

Chief, Design Section — Date

APPROVED

Chief, Division of Transportation Engineering — Date

Designed by: ADH Drawn by: TMB Checked by: JJR

PS-02
ROADWAY PLAN
BOWIE MILL ROAD BIKEWAY

M-NCPPC PERMIT NO. MR2023016 SHA TRACKING NO. 24APMO039XX

0 30' 60'

SCALE: 1"=30'

DATE: APRIL 2025

Project No. : 502108

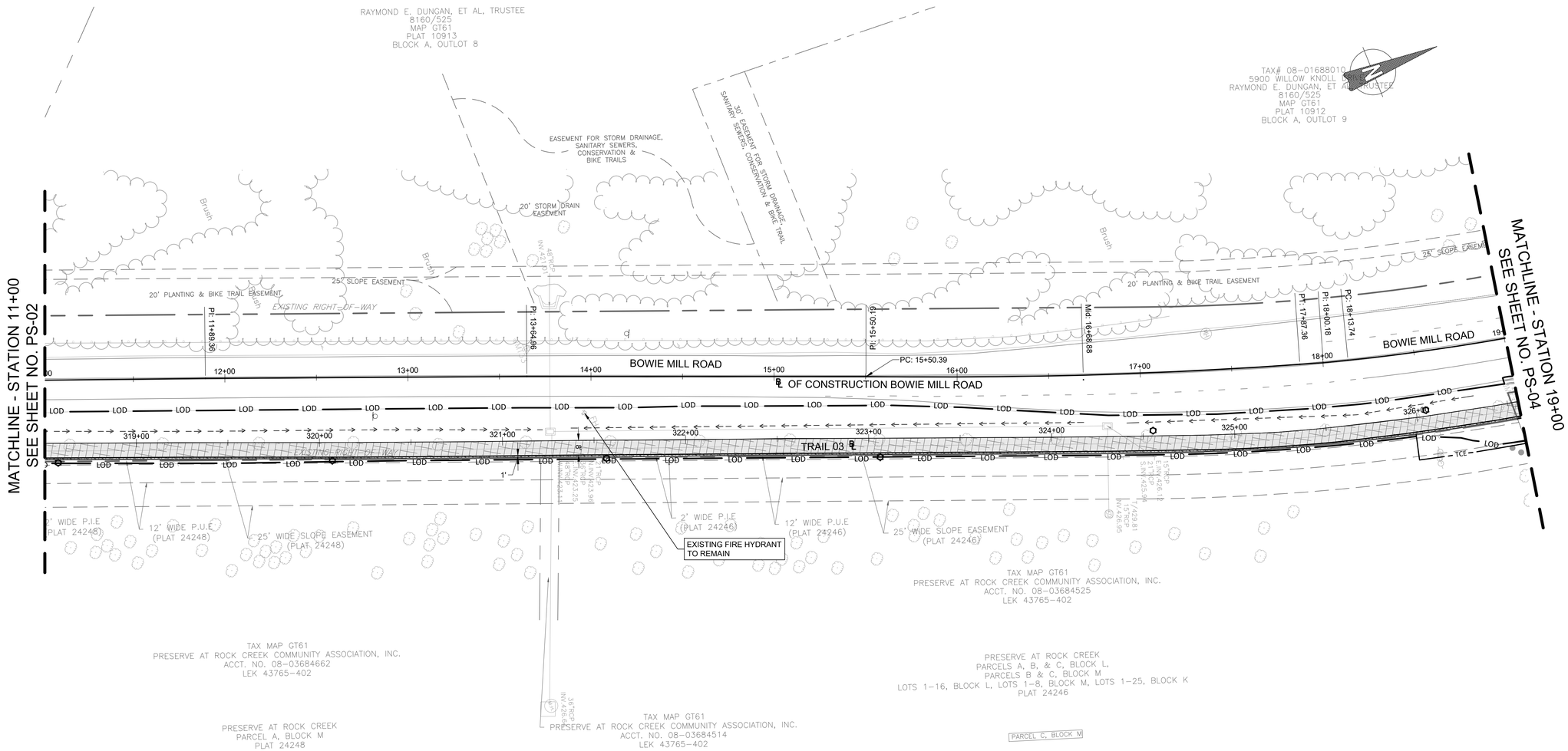
Sheet 43 of 393

PROPOSED ASPHALT TRAIL PERVIOUS		
FROM	TO	QUANTITY
11+00 RT	19+00 RT	6,452 SF

REMOVE EXISTING PAVEMENT / SIDEWALK		
FROM	TO	QUANTITY
11+00 RT	19+00 RT	782 SF

COMBINATION CONCRETE CURB AND GUTTER - TYPE A (MC-100.01)		
FROM	TO	QUANTITY
18+95 RT	19+00 RT	5 LF

FULL DEPTH PAVEMENT (2' WIDTH ADJACENT TO CURB)		
FROM	TO	QUANTITY
18+95 RT	19+00 RT	10 SF



LEGEND

- LOD — LIMIT OF DISTURBANCE
- LIMIT OF GRADING
- PROPOSED PAVEMENT MARKINGS
- TPF — TREE PROTECTION FENCE
- TCE — TEMPORARY CONSTRUCTION EASEMENT
- PE — PERPETUAL EASEMENT
- PROPOSED RETAINING WALL
- PROPOSED UTILITY POLE
- PROPOSED ASPHALT PATH/TRAIL-IMPERVIOUS
- PROPOSED ASPHALT PATH/TRAIL - PERVIOUS
- PROPOSED DRIVEWAY ASPHALT PAVEMENT
- PROPOSED PAVEMENT REMOVAL
- PROPOSED RIP-RAP SLOPE STABILIZATION
- PROPOSED CONCRETE SIDEWALK
- PROPOSED LIGHT POLE

NOTES:

1. THIS SHEET IS WITHIN UPPER ROCK CREEK SPECIAL PROTECTION AREA
2. ALL UTILITY CONFLICTS AND RELOCATIONS WILL REQUIRE COORDINATION WITH THE APPROPRIATE UTILITY COMPANIES.

90% DESIGN
NOT FOR CONSTRUCTION

NO.	REVISION	DATE	BY

MONTGOMERY COUNTY
DEPARTMENT OF TRANSPORTATION
GAITHERSBURG, MARYLAND

RECOMMENDED FOR APPROVAL

Chief, Design Section — Date

APPROVED

Chief, Division of Transportation Engineering — Date

Designed by: ADH Drawn by: TMB Checked by: JJR

PS-03
ROADWAY PLAN
BOWIE MILL ROAD
BIKEWAY

M-NCPPC PERMIT NO. MR2023016 SHA TRACKING NO. 24APMO039XX

0 30' 60'

SCALE: 1"=30' DATE: APRIL 2025

Project No. : 502108 Sheet 44 of 393

FILE NAME: C:\pwworking\jmt\d0642115\pHD_Bowie Mill Road.dwg LAYOUT NAME: PS-03 PLOTTED: Monday, April 07, 2025 - 2:16pm USER: AHavener

PROPOSED ASPHALT TRAIL IMPERVIOUS		
FROM	TO	QUANTITY
19+76 RT	20+96 RT	994 SF
21+62 RT	27+00 RT	4,308 SF

PROPOSED ASPHALT TRAIL PERVIOUS		
FROM	TO	QUANTITY
19+00 RT	19+02 RT	24 SF

REMOVE EXISTING PAVEMENT / SIDEWALK		
FROM	TO	QUANTITY
19+00 RT	19+16 RT	9 SF
20+72 RT	21+14 RT	177 SF
21+44 RT	22+14 RT	135 SF
21+69 RT	24+91 RT	368 SF

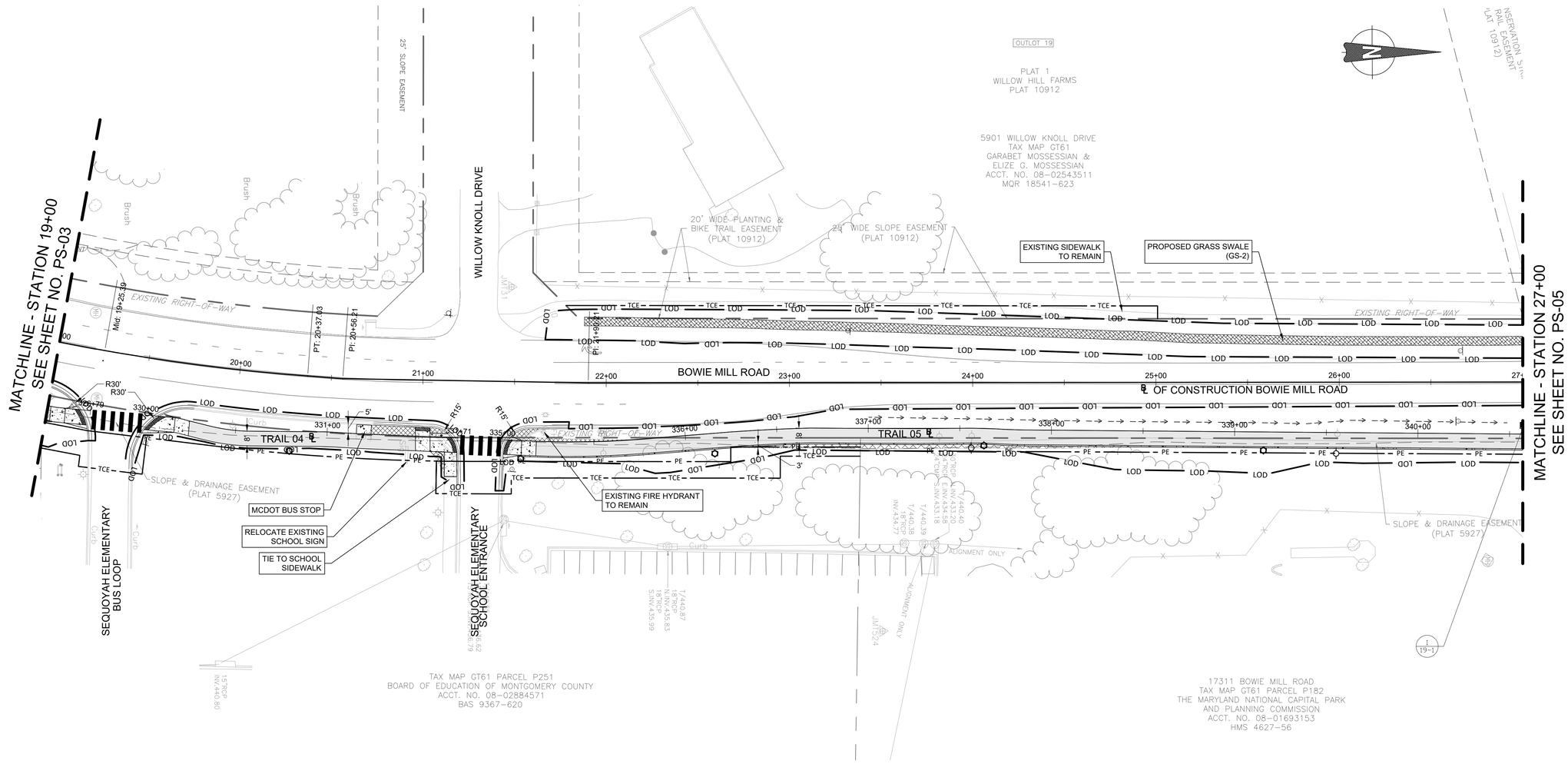
DETECTABLE WARNING SURFACE (MD-655.40)	
STATION	QUANTITY
19+20 RT	19 SF
19+55 RT	23 SF
21+00 RT	16 SF
21+19 RT	18 SF
21+45 RT	17 SF

COMBINATION CONCRETE CURB AND GUTTER - TYPE A (MC-100.01)		
FROM	TO	QUANTITY
19+00 RT	19+25 RT	37 LF
19+50 RT	19+78 RT	55 LF
20+73 RT	21+20 RT	72 LF
21+44 RT	21+80 RT	63 LF

RESIDENTIAL SIDEWALK (MC-110.01)		
FROM	TO	QUANTITY
19+02 RT	19+23 RT	145 SF
19+52 RT	19+76 RT	169 SF
20+64 RT	20+72 RT	40 SF
20+96 RT	21+19 RT	296 SF
21+44 RT	21+62 RT	137 SF

FULL DEPTH PAVEMENT (2' WIDTH ADJACENT TO CURB)		
FROM	TO	QUANTITY
19+00 RT	19+25 RT	74 SF
19+50 RT	19+78 RT	110 SF
20+73 RT	21+20 RT	144 LF
21+44 RT	21+80 RT	126 LF

MODIFIED CURB (18" HEIGHT MAX)		
FROM	TO	QUANTITY
21+54 RT	27+00 RT	547 LF



LEGEND

- LOD — LIMIT OF DISTURBANCE
- LIMIT OF GRADING
- PROPOSED PAVEMENT MARKINGS
- TPF — TREE PROTECTION FENCE
- TCE — TEMPORARY CONSTRUCTION EASEMENT
- PE — PERPETUAL EASEMENT
- PROPOSED RETAINING WALL
- PROPOSED UTILITY POLE
- PROPOSED ASPHALT PATH/TRAIL-IMPERVIOUS
- PROPOSED ASPHALT PATH/TRAIL - PERVIOUS
- PROPOSED DRIVEWAY ASPHALT PAVEMENT
- PROPOSED PAVEMENT REMOVAL
- PROPOSED RIP-RAP SLOPE STABILIZATION
- PROPOSED CONCRETE SIDEWALK
- PROPOSED LIGHT POLE

NOTES:

1. THIS SHEET IS WITHIN UPPER ROCK CREEK SPECIAL PROTECTION AREA.
2. ALL UTILITY CONFLICTS AND RELOCATIONS WILL REQUIRE COORDINATION WITH THE APPROPRIATE UTILITY COMPANIES.
3. THE EXISTING SEQUOYAH ELEMENTARY SCHOOL SIGN WILL NEED TO BE RELOCATED.

90% DESIGN
NOT FOR CONSTRUCTION

NO.	REVISION	DATE	BY

MONTGOMERY COUNTY
DEPARTMENT OF TRANSPORTATION
GAITHERSBURG, MARYLAND

RECOMMENDED FOR APPROVAL

Chief, Design Section — Date

APPROVED

Chief, Division of Transportation Engineering — Date

Designed by: ADH Drawn by: TMB Checked by: JJR

PS-04
ROADWAY PLAN
BOWIE MILL ROAD BIKEWAY

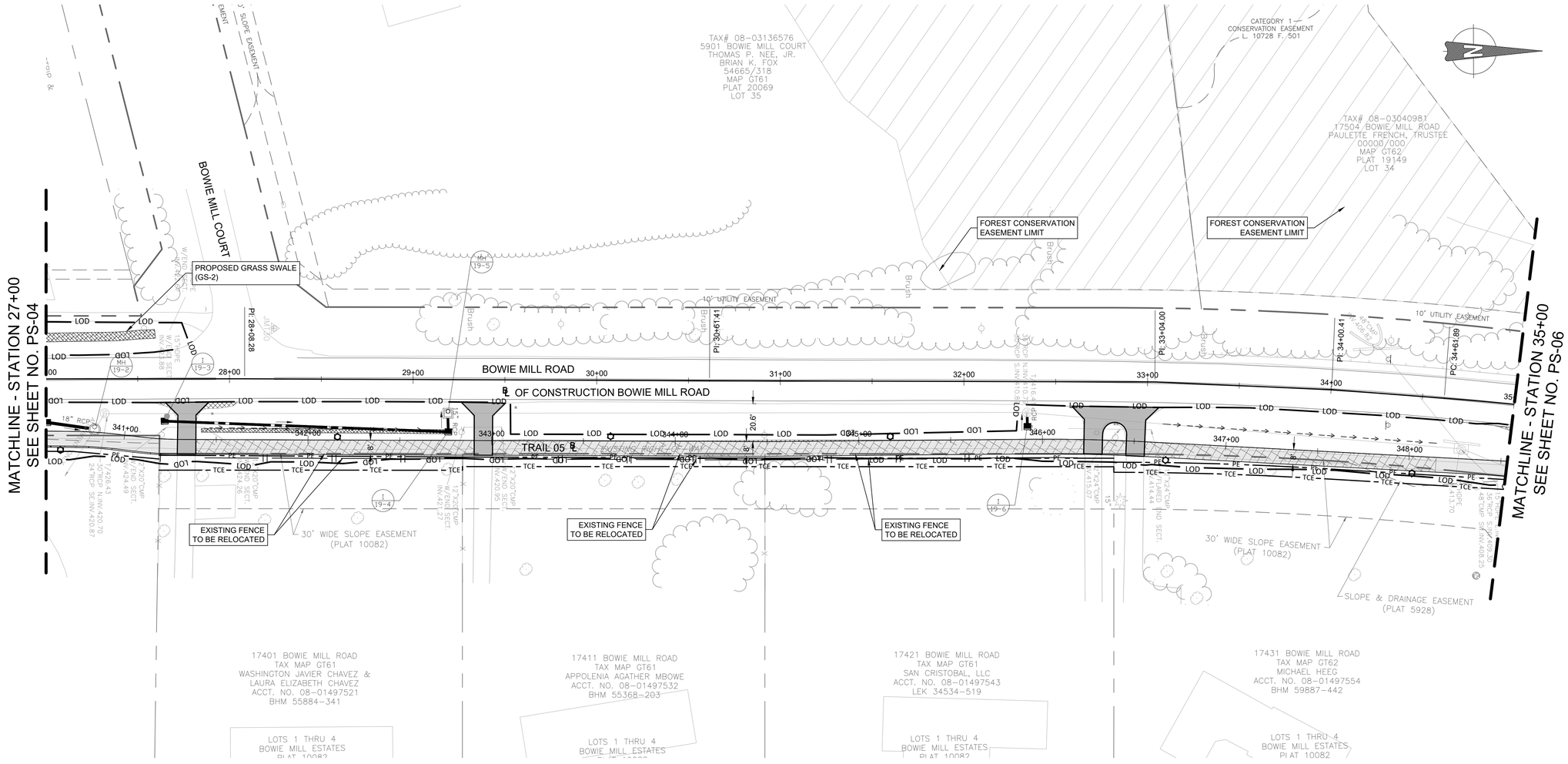
M-NCPPC PERMIT NO. MR2023016 SHA TRACKING NO. 24APMO039XX

0 30' 60'

SCALE: 1"=30' DATE: APRIL 2025

Project No. : 502108 Sheet 45 of 393

FILE NAME: C:\pwworking\jmt\d0642115\pHD_Bowie Mill Road.dwg LAYOUT NAME: PS-04 PLOTTED: Monday, April 07, 2025 - 2:16pm USER: AHavener



PROPOSED ASPHALT TRAIL IMPERVIOUS		
FROM	TO	QUANTITY
27+00 RT	27+72 RT	576 SF
34+60 RT	35+00 RT	476 SF

PROPOSED ASPHALT TRAIL PERVIOUS		
FROM	TO	QUANTITY
27+82 RT	29+33 RT	1,213 SF
29+43 RT	32+65 RT	2,576 SF
32+75 RT	32+89 RT	105 SF
32+98 RT	34+60 RT	1,273 SF

ASPHALT DRIVEWAY	
STATION	QUANTITY
27+80 RT	330 SF
29+40 RT	335 SF
32+80 RT	710 SF

NOTE: SEE TYPICAL SECTIONS FOR PAVEMENT DETAIL

REMOVE EXISTING PAVEMENT/SIDEWALK		
FROM	TO	QUANTITY
27+59 RT	28+05 RT	72 SF
29+43 RT	31+75 RT	108 SF
34+90 RT	35+00 RT	9 SF

REMOVE AND RESET WOOD FENCE		
FROM	TO	QUANTITY
27+86 RT	29+28 RT	141 LF
29+44 RT	32+62 RT	318 LF

RESET MAILBOX	
STATION	QUANTITY
27+33 RT	1 EA
29+56 RT	1 EA
32+82 RT	1 EA
32+84 RT	1 EA

NOTE: INCIDENTAL TO CLEARING AND GRUBBING

MODIFIED CURB (18" HEIGHT MAX)		
FROM	TO	QUANTITY
27+00 RT	27+70 RT	72 LF

LEGEND

- LOD — LIMIT OF DISTURBANCE
- LIMIT OF GRADING
- PROPOSED PAVEMENT MARKINGS
- TPF — TREE PROTECTION FENCE
- TCE — TEMPORARY CONSTRUCTION EASEMENT
- PE — PERPETUAL EASEMENT
- PROPOSED RETAINING WALL
- PROPOSED UTILITY POLE
- PROPOSED ASPHALT PATH/TRAIL-IMPERVIOUS
- PROPOSED ASPHALT PATH/TRAIL - PERVIOUS
- PROPOSED DRIVEWAY ASPHALT PAVEMENT
- PROPOSED PAVEMENT REMOVAL
- PROPOSED RIP-RAP SLOPE STABILIZATION
- PROPOSED CONCRETE SIDEWALK
- PROPOSED LIGHT POLE

NOTES:

1. THIS SHEET IS WITHIN UPPER ROCK CREEK SPECIAL PROTECTION AREA.
2. ALL UTILITY CONFLICTS AND RELOCATIONS WILL REQUIRE COORDINATION WITH THE APPROPRIATE UTILITY COMPANIES.

90% DESIGN
NOT FOR CONSTRUCTION

NO.	REVISION	DATE	BY

MONTGOMERY COUNTY
DEPARTMENT OF TRANSPORTATION
GAITHERSBURG, MARYLAND

RECOMMENDED FOR APPROVAL

Chief, Design Section — Date

APPROVED

Chief, Division of Transportation Engineering — Date

Designed by: ADH Drawn by: TMB Checked by: JJR

PS-05
ROADWAY PLAN
BOWIE MILL ROAD
BIKEWAY

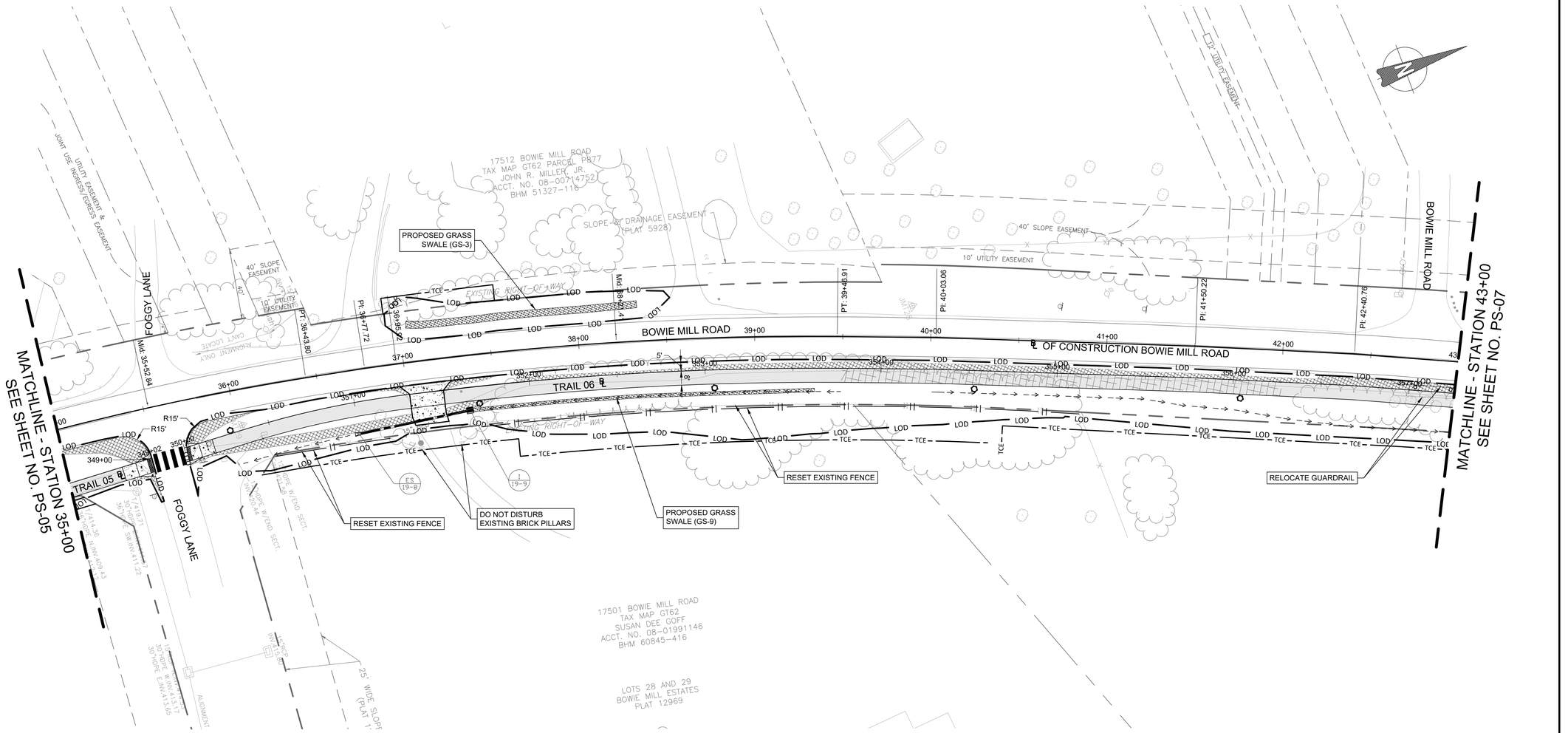
M-NCPPC PERMIT NO. MR2023016 SHA TRACKING NO. 24APMO039XX

0 30' 60'
SCALE: 1"=30'

DATE: APRIL 2025

Project No. : 502108 Sheet 46 of 393

FILE NAME: C:\pwworking\jmt\d0642115\pHD_Bowie Mill Road.dwg LAYOUT NAME: PS-05 PLOTTED: Monday, April 07, 2025 - 2:17pm USER: AHavener



PROPOSED ASPHALT TRAIL IMPERVIOUS		
FROM	TO	QUANTITY
35+00 RT	35+30 RT	77 SF
35+85 RT	37+01 RT	916 SF
37+21 RT	39+50 RT	1,811 SF
42+00 RT	43+00 RT	795 SF

PROPOSED ASPHALT TRAIL PERVIOUS		
FROM	TO	QUANTITY
39+50 RT	42+00 RT	1,993 SF

RESIDENTIAL DRIVEWAY (MC-301.01)	
STATION	QUANTITY
37+12 RT	469 SF

REMOVE EXISTING PAVEMENT/SIDEWALK		
FROM	TO	QUANTITY
35+00 RT	35+48 RT	402 SF
35+70 RT	37+50 RT	923 SF
37+60 RT	43+00 RT	1,654 SF

DETECTABLE WARNING SURFACE (MD-655.40)	
STATION	QUANTITY
35+48 RT	16 SF
35+70 RT	16 SF

REMOVE AND RESET WOOD FENCE		
FROM	TO	QUANTITY
36+19 RT	36+87 RT	66 LF
37+40 RT	40+85 RT	340 LF

RESIDENTIAL SIDEWALK (MC-110.01)		
FROM	TO	QUANTITY
35+30 RT	35+48 RT	126 SF
35+70 RT	35+85 RT	124 SF

TRAFFIC BARRIER W-BEAM USING 6-FOOT POST (MD-655.22)		
FROM	TO	QUANTITY
42+63 RT	43+00 RT	36 LF

TRAFFIC BARRIER W-BEAM TYPE C END TREATMENT (MD-605.03)	
STATION	QUANTITY
42+63 RT	1 EA

RESET MAILBOX	
STATION	QUANTITY
37+30 RT	1 EA

NOTE: INCIDENTAL TO CLEARING AND GRUBBING

LEGEND

- LOD — LIMIT OF DISTURBANCE
- LIMIT OF GRADING
- PROPOSED PAVEMENT MARKINGS
- TPF — TREE PROTECTION FENCE
- TCE — TEMPORARY CONSTRUCTION EASEMENT
- PE — PERPETUAL EASEMENT
- PROPOSED RETAINING WALL
- PROPOSED UTILITY POLE
- PROPOSED ASPHALT PATH/TRAIL-IMPERVIOUS
- PROPOSED ASPHALT PATH/TRAIL - PERVIOUS
- PROPOSED DRIVEWAY ASPHALT PAVEMENT
- PROPOSED PAVEMENT REMOVAL
- PROPOSED RIP-RAP SLOPE STABILIZATION
- PROPOSED CONCRETE SIDEWALK
- PROPOSED LIGHT POLE

NOTES:

1. THIS SHEET IS WITHIN UPPER ROCK CREEK SPECIAL PROTECTION AREA.
2. ALL UTILITY CONFLICTS AND RELOCATIONS WILL REQUIRE COORDINATION WITH THE APPROPRIATE UTILITY COMPANIES.

90% DESIGN
NOT FOR CONSTRUCTION

NO.	REVISION	DATE	BY

MONTGOMERY COUNTY
DEPARTMENT OF TRANSPORTATION
GAITHERSBURG, MARYLAND

RECOMMENDED FOR APPROVAL

Chief, Design Section — Date

APPROVED

Chief, Division of Transportation Engineering — Date

Designed by: ADH Drawn by: TMB Checked by: JJR

PS-06
ROADWAY PLAN
BOWIE MILL ROAD
BIKEWAY

M-NCPPC PERMIT NO. MR2023016 SHA TRACKING NO. 24APMO039XX

0 30' 60'

SCALE: 1"=30' DATE: APRIL 2025

Project No. : 502108 Sheet 47 of 393

FILE NAME: C:\pwworking\jmt\d0642115\pHD_Bowie Mill Road.dwg LAYOUT NAME: PS-06 PLOTTED: Monday, April 07, 2025 - 2:17pm USER: AHavener

PROPOSED ASPHALT TRAIL IMPERVIOUS		
FROM	TO	QUANTITY
43+00 RT	48+64 RT	4,487 SF

PROPOSED ASPHALT TRAIL PERVIOUS		
FROM	TO	QUANTITY
49+34 RT	51+00 RT	1,328 SF

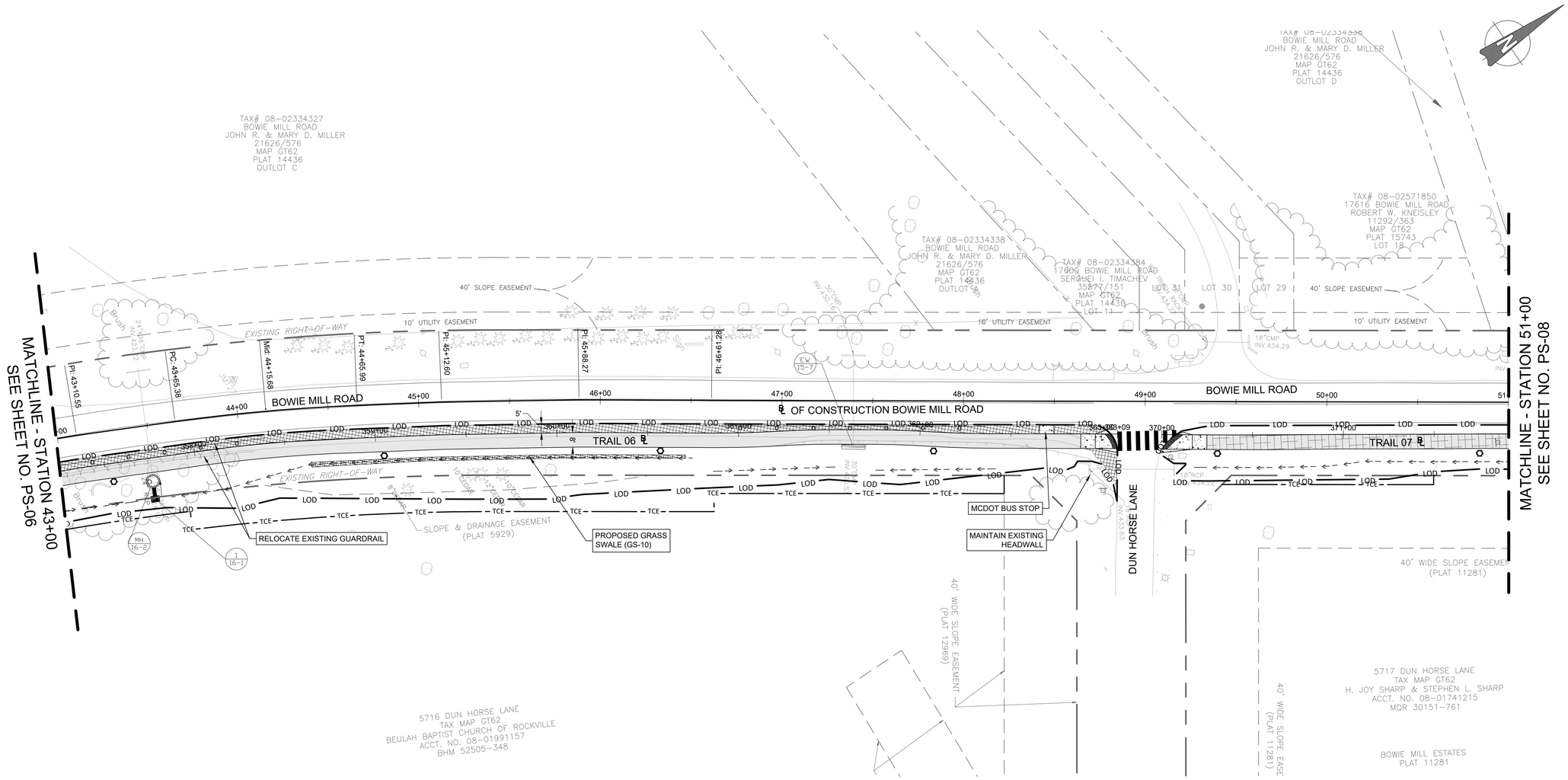
REMOVE EXISTING PAVEMENT / SIDEWALK		
FROM	TO	QUANTITY
43+00 RT	48+81 RT	2,793 SF

DETECTABLE WARNING SURFACE (MD-655.40)	
STATION	QUANTITY
48+84 RT	18 SF
49+08 RT	26 SF

RESIDENTIAL SIDEWALK (MC-110.01)		
FROM	TO	QUANTITY
48+42 RT	48+50 RT	40 SF
48+64 RT	48+84 RT	147 SF
49+08 RT	49+34 RT	166 SF

TRAFFIC BARRIER W-BEAM USING 6-FOOT POST (MD-655.22)		
FROM	TO	QUANTITY
43+00 RT	44+14 RT	114 LF
46+65 RT	48+12 RT	146 LF

TRAFFIC BARRIER W-BEAM TYPE C END TREATMENT (MD-605.03)	
STATION	QUANTITY
44+14 RT	1 EA
46+65 RT	1 EA
48+12 RT	1 EA



LEGEND

- LOD — LIMIT OF DISTURBANCE
- LIMIT OF GRADING
- PROPOSED PAVEMENT MARKINGS
- TPF — TREE PROTECTION FENCE
- TCE — TEMPORARY CONSTRUCTION EASEMENT
- PE — PERPETUAL EASEMENT
- PROPOSED RETAINING WALL
- PROPOSED UTILITY POLE
- PROPOSED ASPHALT PATH/TRAIL-IMPERVIOUS
- PROPOSED ASPHALT PATH/TRAIL - PERVIOUS
- PROPOSED DRIVEWAY ASPHALT PAVEMENT
- PROPOSED PAVEMENT REMOVAL
- PROPOSED RIP-RAP SLOPE STABILIZATION
- PROPOSED CONCRETE SIDEWALK
- PROPOSED LIGHT POLE

NOTES:

1. THIS SHEET IS WITHIN UPPER ROCK CREEK SPECIAL PROTECTION AREA.
2. ALL UTILITY CONFLICTS AND RELOCATIONS WILL REQUIRE COORDINATION WITH THE APPROPRIATE UTILITY COMPANIES.

90% DESIGN
NOT FOR CONSTRUCTION

NO.	REVISION	DATE	BY

MONTGOMERY COUNTY
DEPARTMENT OF TRANSPORTATION
GAITHERSBURG, MARYLAND

RECOMMENDED FOR APPROVAL

Chief, Design Section — Date

APPROVED

Chief, Division of Transportation Engineering — Date

Designed by: ADH Drawn by: TMB Checked by: JJR

PS-07
ROADWAY PLAN
BOWIE MILL ROAD
BIKEWAY

M-NCPPC PERMIT NO. MR2023016 SHA TRACKING NO. 24APMO039XX

0 30' 60'
SCALE: 1"=30'

DATE: APRIL 2025

Project No. : 502108

Sheet 48 of 393

FILE NAME: C:\pwworking\jmt\d0642115\pHD_Bowie Mill Road.dwg LAYOUT NAME: PS-07 PLOTTED: Monday, April 07, 2025 - 2:18pm USER: AHavener

PROPOSED ASPHALT TRAIL IMPERVIOUS		
FROM	TO	QUANTITY
51+00 RT	51+36 RT	288 SF
51+48 RT	54+41 RT	2,353 SF
54+52 RT	56+43 RT	1,531 SF
56+54 RT	57+78 RT	980 SF

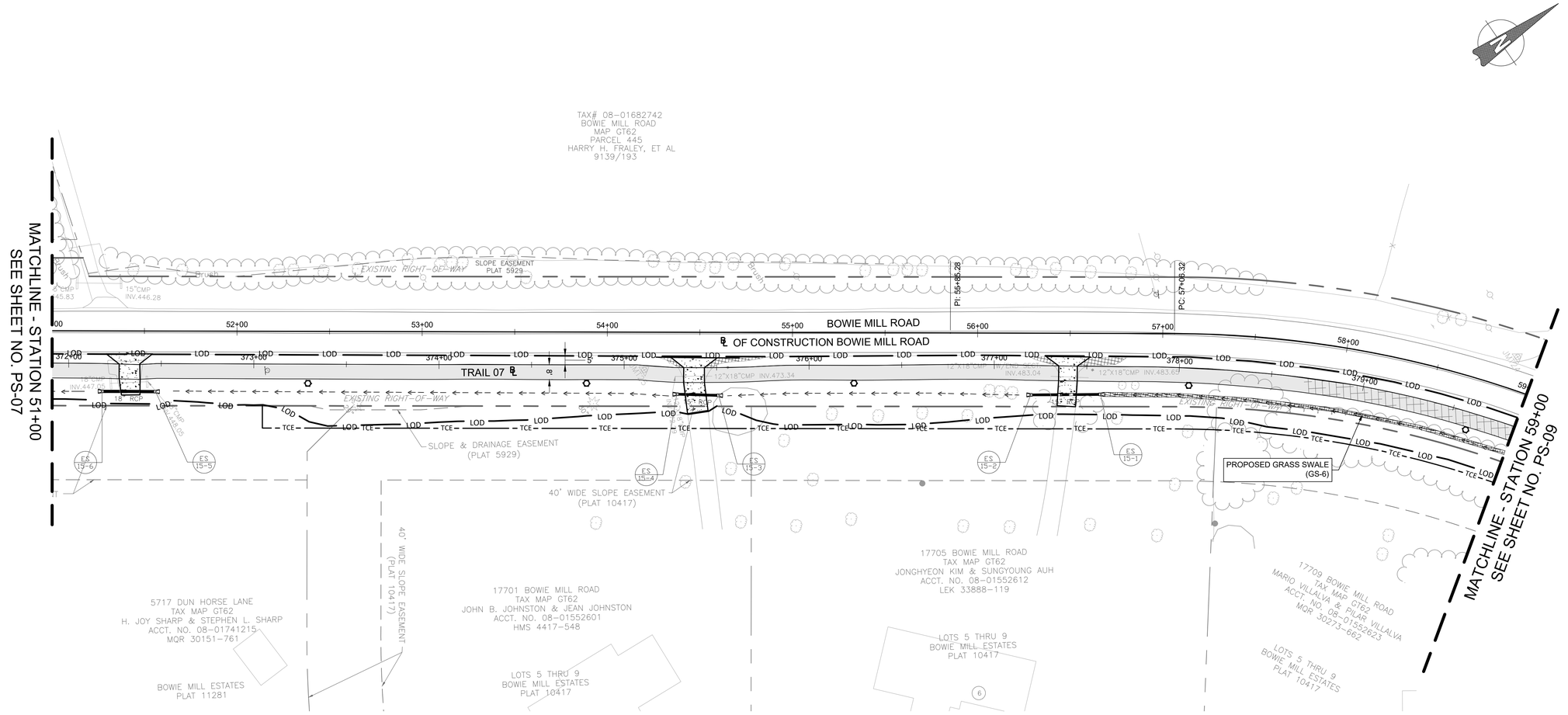
PROPOSED ASPHALT TRAIL PERVIOUS		
FROM	TO	QUANTITY
57+78 RT	59+00 RT	927 SF

RESIDENTIAL DRIVEWAY (MC-301.01)	
STATION	QUANTITY
51+40 RT	282 SF
54+50 RT	370 SF
56+50 RT	297 SF

REMOVE EXISTING PAVEMENT / SIDEWALK		
FROM	TO	QUANTITY
54+26 RT	54+88 RT	87 SF
56+28 RT	56+80 RT	120 SF

RESET MAILBOX	
STATION	QUANTITY
54+60 RT	1 EA
56+60 RT	1 EA

NOTE: INCIDENTAL TO CLEARING AND GRUBBING



LEGEND

- LOD — LIMIT OF DISTURBANCE
- LIMIT OF GRADING
- PROPOSED PAVEMENT MARKINGS
- TPF — TREE PROTECTION FENCE
- TCE — TEMPORARY CONSTRUCTION EASEMENT
- PE — PERPETUAL EASEMENT
- PROPOSED RETAINING WALL
- PROPOSED UTILITY POLE
- PROPOSED ASPHALT PATH/TRAIL-IMPERVIOUS
- PROPOSED ASPHALT PATH/TRAIL - PERVIOUS
- PROPOSED DRIVEWAY ASPHALT PAVEMENT
- PROPOSED PAVEMENT REMOVAL
- PROPOSED RIP-RAP SLOPE STABILIZATION
- PROPOSED CONCRETE SIDEWALK
- PROPOSED LIGHT POLE

NOTES:

1. THIS SHEET IS WITHIN UPPER ROCK CREEK SPECIAL PROTECTION AREA.
2. ALL UTILITY CONFLICTS AND RELOCATIONS WILL REQUIRE COORDINATION WITH THE APPROPRIATE UTILITY COMPANIES.

90% DESIGN
NOT FOR CONSTRUCTION

NO.	REVISION	DATE	BY

MONTGOMERY COUNTY
DEPARTMENT OF TRANSPORTATION
GAITHERSBURG, MARYLAND

RECOMMENDED FOR APPROVAL

Chief, Design Section — Date

APPROVED

Chief, Division of Transportation Engineering — Date

Designed by: ADH Drawn by: TMB Checked by: JJR

PS-08
ROADWAY PLAN
BOWIE MILL ROAD BIKEWAY

M-NCPPC PERMIT NO. MR2023016 SHA TRACKING NO. 24APMO039XX

0 30' 60'
SCALE: 1"=30'

DATE: APRIL 2025

Project No. : 502108 Sheet 49 of 393

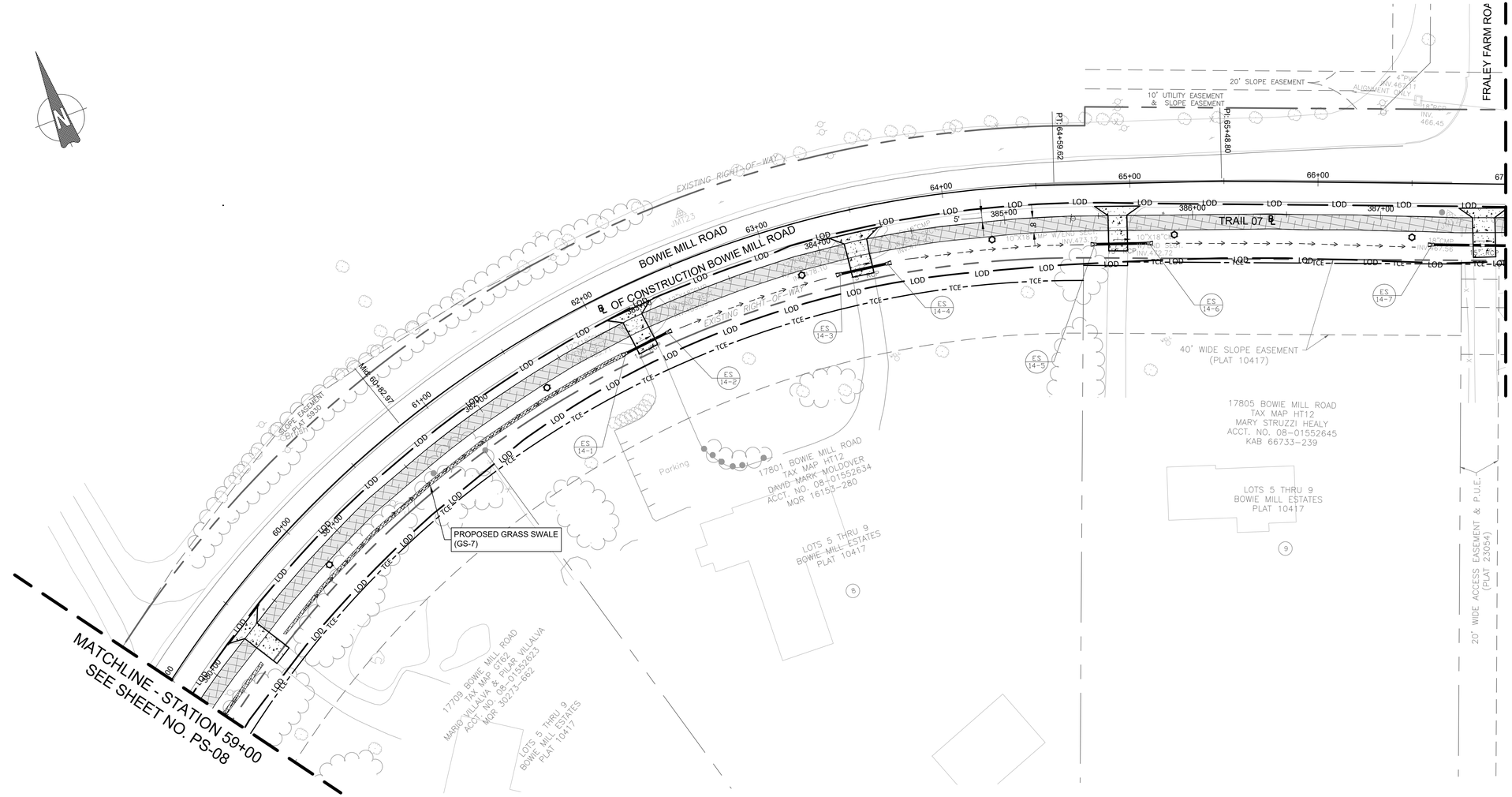
FILE NAME: C:\pwworking\jmt\d0642115\pHD_Bowie Mill Road.dwg LAYOUT NAME: PS-08 PLOTTED: Monday, April 07, 2025 - 2:19pm USER: AHavener

PROPOSED ASPHALT TRAIL PERVIOUS		
FROM	TO	QUANTITY
59+00 RT	59+41 RT	315 SF
59+53 RT	62+15 RT	2,017 SF
62+27 RT	63+44 RT	904 SF
63+56 RT	64+88 RT	1,027 SF
64+99 RT	66+82 RT	1,470 SF
66+94 RT	67+00 RT	45 SF

RESIDENTIAL DRIVEWAY (MC-301.01)	
STATION	QUANTITY
59+50 RT	316 SF
62+20 RT	290 SF
63+50 RT	302 SF
64+93 RT	272 SF
66+90 RT	348 SF

RESET MAILBOX	
STATION	QUANTITY
59+60 RT	1 EA
63+64 RT	1 EA
65+17 RT	1 EA

NOTE: INCIDENTAL TO CLEARING AND GRUBBING



LEGEND

- LOD — LIMIT OF DISTURBANCE
- LIMIT OF GRADING
- PROPOSED PAVEMENT MARKINGS
- TPF — TREE PROTECTION FENCE
- TCE — TEMPORARY CONSTRUCTION EASEMENT
- PE — PERPETUAL EASEMENT
- PROPOSED RETAINING WALL
- PROPOSED UTILITY POLE
- PROPOSED ASPHALT PATH/TRAIL-IMPERVIOUS
- PROPOSED ASPHALT PATH/TRAIL - PERVIOUS
- PROPOSED DRIVEWAY ASPHALT PAVEMENT
- PROPOSED PAVEMENT REMOVAL
- PROPOSED RIP-RAP SLOPE STABILIZATION
- PROPOSED CONCRETE SIDEWALK
- PROPOSED LIGHT POLE

NOTES:

1. THIS SHEET IS WITHIN UPPER ROCK CREEK SPECIAL PROTECTION AREA.
2. ALL UTILITY CONFLICTS AND RELOCATIONS WILL REQUIRE COORDINATION WITH THE APPROPRIATE UTILITY COMPANIES.

90% DESIGN
NOT FOR CONSTRUCTION

NO.	REVISION	DATE	BY

MONTGOMERY COUNTY
DEPARTMENT OF TRANSPORTATION
GAITHERSBURG, MARYLAND

RECOMMENDED FOR APPROVAL

Chief, Design Section — Date

APPROVED

Chief, Division of Transportation Engineering — Date

Designed by: ADH Drawn by: TMB Checked by: JJR

PS-09
ROADWAY PLAN
BOWIE MILL ROAD
BIKEWAY

M-NCPPC PERMIT NO. MR2023016 SHA TRACKING NO. 24APMO039XX

0 30' 60'
SCALE: 1"=30'

DATE: APRIL 2025

Project No. : 502108 Sheet 50 of 393

FILE NAME: C:\pwworking\jmt\d0642115\pHD_Bowie Mill Road.dwg LAYOUT NAME: PS-09 PLOTTED: Monday, April 07, 2025 - 2:19pm USER: AHavener

PROPOSED ASPHALT TRAIL PERVIOUS		
FROM	TO	QUANTITY
67+00 RT	71+79 RT	3,852 SF
72+05 RT	75+00 RT	2,436 SF

RESIDENTIAL DRIVEWAY (MC-301.01)	
STATION	QUANTITY
71+90 RT	805 SF

RESIDENTIAL SIDEWALK (MC-110.01)		
FROM	TO	QUANTITY
67+13 RT	67+21 RT	36 SF

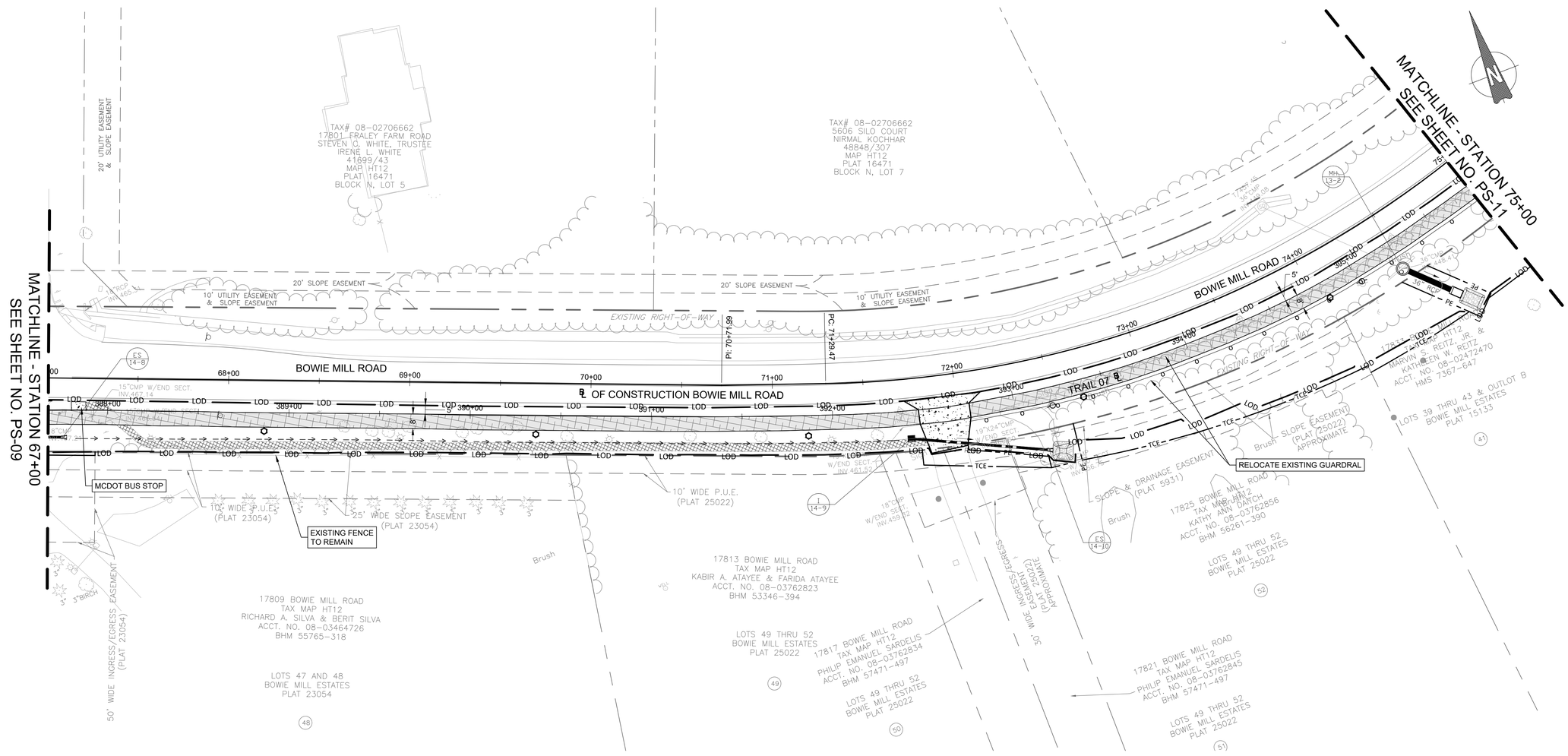
REMOVE EXISTING PAVEMENT/SIDEWALK		
FROM	TO	QUANTITY
67+21 RT	71+83 RT	1,992 SF

TRAFFIC BARRIER W-BEAM USING 6-FOOT POST (MD-655.22)		
FROM	TO	QUANTITY
72+06 RT	75+00 RT	294 LF

TRAFFIC BARRIER W-BEAM TYPE C END TREATMENT (MD-605.03)	
STATION	QUANTITY
72+06 RT	1 EA

RESET MAILBOX	
STATION	QUANTITY
67+10 RT	1 EA

NOTE: INCIDENTAL TO CLEARING AND GRUBBING



LEGEND

- LOD — LIMIT OF DISTURBANCE
- LIMIT OF GRADING
- PROPOSED PAVEMENT MARKINGS
- TPF — TREE PROTECTION FENCE
- TCE — TEMPORARY CONSTRUCTION EASEMENT
- PE — PERPETUAL EASEMENT
- PROPOSED RETAINING WALL
- PROPOSED UTILITY POLE
- PROPOSED ASPHALT PATH/TRAIL-IMPERVIOUS
- PROPOSED ASPHALT PATH/TRAIL - PERVIOUS
- PROPOSED DRIVEWAY ASPHALT PAVEMENT
- PROPOSED PAVEMENT REMOVAL
- PROPOSED RIP-RAP SLOPE STABILIZATION
- PROPOSED CONCRETE SIDEWALK
- PROPOSED LIGHT POLE

NOTES:

1. THIS SHEET IS WITHIN UPPER ROCK CREEK SPECIAL PROTECTION AREA.
2. ALL UTILITY CONFLICTS AND RELOCATIONS WILL REQUIRE COORDINATION WITH THE APPROPRIATE UTILITY COMPANIES.

90% DESIGN
NOT FOR CONSTRUCTION

NO.	REVISION	DATE	BY

MONTGOMERY COUNTY
DEPARTMENT OF TRANSPORTATION
GAITHERSBURG, MARYLAND

RECOMMENDED FOR APPROVAL

Chief, Design Section — Date

APPROVED

Chief, Division of Transportation Engineering — Date

Designed by: ADH Drawn by: TMB Checked by: JJR

PS-10
ROADWAY PLAN
BOWIE MILL ROAD
BIKEWAY

M-NCPPC PERMIT NO. MR2023016 SHA TRACKING NO. 24APMO039XX

0 30' 60'

SCALE: 1"=30' DATE: APRIL 2025

Project No. : 502108 Sheet 51 of 393

PROPOSED ASPHALT TRAIL PERVIOUS		
FROM	TO	QUANTITY
75+00 RT	75+32 RT	270 SF
75+45 RT	76+82 RT	1,137 SF
76+98 RT	77+80 RT	692 SF
77+91 RT	79+60 RT	1,433 SF
79+70 RT	80+30 RT	482 SF
80+40 RT	83+00 RT	1,985 SF

RESIDENTIAL DRIVEWAY (MC-301.01)	
STATION	QUANTITY
75+40 RT	367 SF
76+90 RT	430 SF
77+90 RT	281 SF
79+65 RT	260 SF
80+35 RT	264 SF

REMOVE EXISTING PAVEMENT / SIDEWALK		
FROM	TO	QUANTITY
75+20 RT	75+56 RT	41 SF
76+64 RT	77+09 RT	69 SF
77+72 RT	77+98 RT	45 SF
79+42 RT	79+61 RT	67 SF
80+12 RT	80+68 RT	178 SF

TRAFFIC BARRIER W-BEAM USING 6-FOOT POST (MD-655.22)		
FROM	TO	QUANTITY
75+00 RT	75+30 RT	30 SF
75+50 RT	76+65 RT	120 SF

TRAFFIC BARRIER W-BEAM TYPE C END SECTION (MD-605.03)	
STATION	QUANTITY
75+30 RT	1 EA
75+50 RT	1 EA
76+65 RT	1 EA

RESET MAILBOX	
STATION	QUANTITY
75+60 RT	1 EA
76+75 RT	1 EA
77+10 RT	1 EA
78+00 RT	1 EA
79+52 RT	1 EA
80+48 RT	1 EA

NOTE: INCIDENTAL TO CLEARING AND GRUBBING

LEGEND

- LOD — LIMIT OF DISTURBANCE
- LIMIT OF GRADING
- PROPOSED PAVEMENT MARKINGS
- TPF — TREE PROTECTION FENCE
- TCE — TEMPORARY CONSTRUCTION EASEMENT
- PE — PERPETUAL EASEMENT
- PROPOSED RETAINING WALL
- PROPOSED UTILITY POLE
- PROPOSED ASPHALT PATH/TRAIL-IMPERVIOUS
- PROPOSED ASPHALT PATH/TRAIL - PERVIOUS
- PROPOSED DRIVEWAY ASPHALT PAVEMENT
- PROPOSED PAVEMENT REMOVAL
- PROPOSED RIP-RAP SLOPE STABILIZATION
- PROPOSED CONCRETE SIDEWALK
- PROPOSED LIGHT POLE

NOTES:

1. THIS SHEET IS WITHIN UPPER ROCK CREEK SPECIAL PROTECTION AREA.
2. ALL UTILITY CONFLICTS AND RELOCATIONS WILL REQUIRE COORDINATION WITH THE APPROPRIATE UTILITY COMPANIES.

90% DESIGN
NOT FOR CONSTRUCTION

NO.	REVISION	DATE	BY

MONTGOMERY COUNTY
DEPARTMENT OF TRANSPORTATION
GAITHERSBURG, MARYLAND

RECOMMENDED FOR APPROVAL

Chief, Design Section — Date

APPROVED

Chief, Division of Transportation Engineering — Date

Designed by: ADH Drawn by: TMB Checked by: JJR

PS-11
ROADWAY PLAN
BOWIE MILL ROAD
BIKEWAY

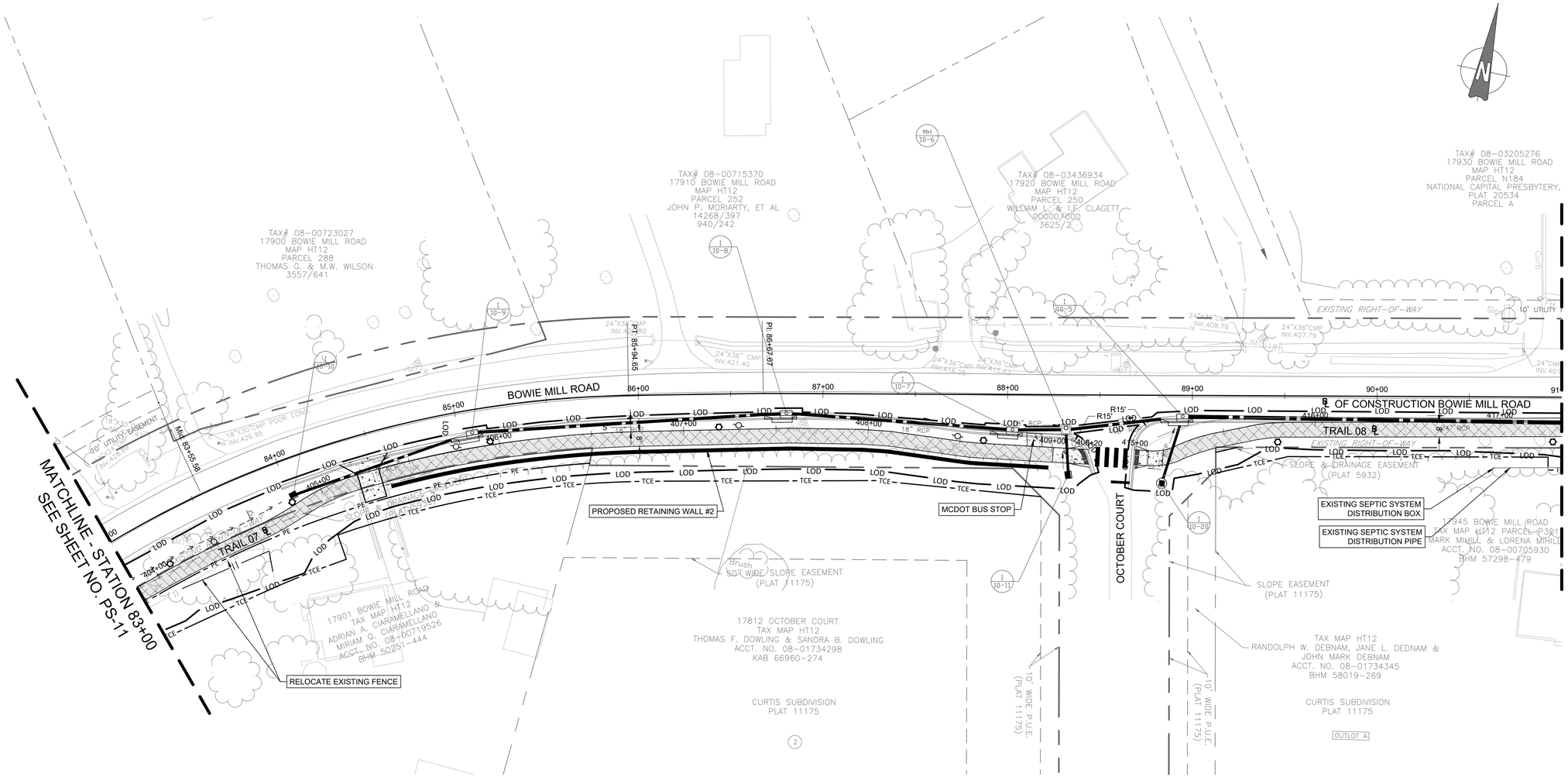
M-NCPPC PERMIT NO. MR2023016 SHA TRACKING NO. 24APMO039XX

0 30' 60'
SCALE: 1"=30'

DATE: APRIL 2025

Project No. : 502108 Sheet 52 of 393

FILE NAME: C:\pwworking\jmt\d0642115\pHD_Bowie Mill Road.dwg LAYOUT NAME: PS-11 PLOTTED: Monday, April 07, 2025 - 2:21pm USER: AHavener



PROPOSED ASPHALT TRAIL PERVIOUS		
FROM	TO	QUANTITY
83+00 RT	84+40 RT	1,065 SF
84+52 RT	88+25 RT	2,932 SF
88+85 RT	91+00 RT	1,745 SF

RESIDENTIAL DRIVEWAY (MC-301.01)	
STATION	QUANTITY
84+45 RT	327 SF

DETECTABLE WARNING SURFACE (MD-655.40)	
STATION	QUANTITY
88+44 RT	18 SF
88+70 RT	17 SF

COMBINATION CONCRETE CURB AND GUTTER - TYPE A (MC-100.01)		
FROM	TO	QUANTITY
83+97 RT	88+46 RT	456 LF
88+67 RT	91+00 RT	261 LF

REMOVE AND RESET WOOD FENCE		
FROM	TO	QUANTITY
83+22RT	83+77 RT	62 LF

RESIDENTIAL SIDEWALK (MC-110.01)		
FROM	TO	QUANTITY
88+10 RT	88+19 RT	40 SF
88+25 RT	88+42 RT	142 SF
88+70 RT	88+85 RT	120 SF

FULL DEPTH PAVEMENT (2' WIDTH ADJACENT TO CURB)		
FROM	TO	QUANTITY
83+97 RT	88+46 RT	912 SF
88+67 RT	91+00 RT	522 SF

RESET MAILBOX	
STATION	QUANTITY
84+70 RT	1 EA

NOTE: INCIDENTAL TO CLEARING AND GRUBBING

LEGEND

- LOD — LIMIT OF DISTURBANCE
- LIMIT OF GRADING
- PROPOSED PAVEMENT MARKINGS
- TPF — TREE PROTECTION FENCE
- TCE — TEMPORARY CONSTRUCTION EASEMENT
- PE — PERPETUAL EASEMENT
- PROPOSED RETAINING WALL
- PROPOSED UTILITY POLE
- PROPOSED ASPHALT PATH/TRAIL-IMPERVIOUS
- PROPOSED ASPHALT PATH/TRAIL - PERVIOUS
- PROPOSED DRIVEWAY ASPHALT PAVEMENT
- PROPOSED PAVEMENT REMOVAL
- PROPOSED RIP-RAP SLOPE STABILIZATION
- PROPOSED CONCRETE SIDEWALK
- PROPOSED LIGHT POLE

NOTES:

1. THIS SHEET IS WITHIN UPPER ROCK CREEK SPECIAL PROTECTION AREA.
2. ALL UTILITY CONFLICTS AND RELOCATIONS WILL REQUIRE COORDINATION WITH THE APPROPRIATE UTILITY COMPANIES.
3. SEE ST-SERIES FOR RETAINING WALL DETAILS.

90% DESIGN
NOT FOR CONSTRUCTION

NO.	REVISION	DATE	BY

MONTGOMERY COUNTY
DEPARTMENT OF TRANSPORTATION
GAITHERSBURG, MARYLAND

RECOMMENDED FOR APPROVAL

Chief, Design Section — Date

APPROVED

Chief, Division of Transportation Engineering — Date

Designed by: ADH Drawn by: TMB Checked by: JJR

PS-12
ROADWAY PLAN
BOWIE MILL ROAD BIKEWAY

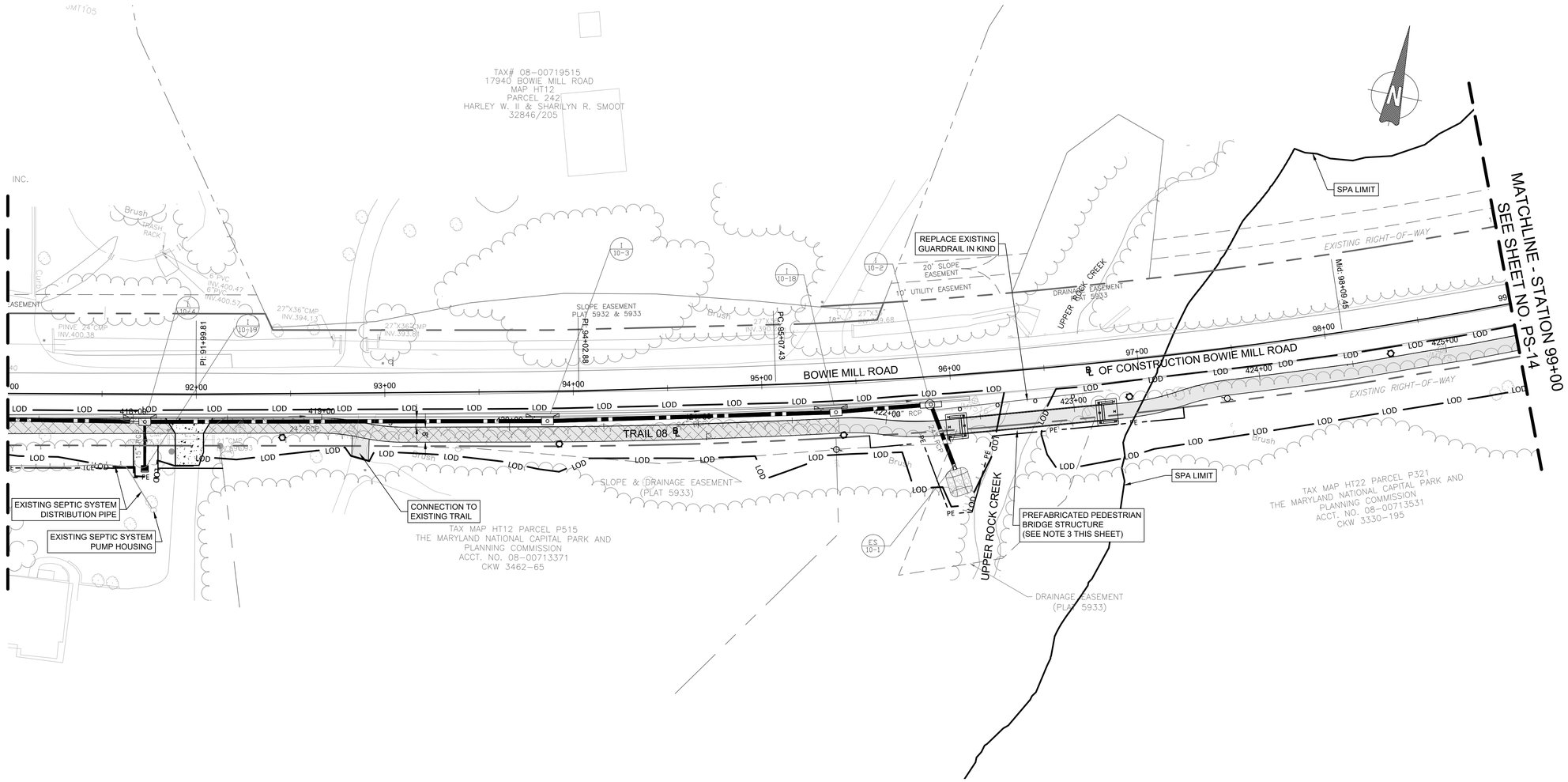
M-NCPPC PERMIT NO. MR2023016 SHA TRACKING NO. 24APMO039XX

0 30' 60'

SCALE: 1"=30' DATE: APRIL 2025

Project No. : 502108 Sheet 53 of 393

FILE NAME: C:\pwworking\jmt\d0642115\pHD_Bowie Mill Road.dwg LAYOUT NAME: PS-12 PLOTTED: Monday, April 07, 2025 - 2:21pm USER: AHavener



PROPOSED ASPHALT TRAIL IMPERVIOUS		
FROM	TO	QUANTITY
92+82 RT	92+92 RT	97 SF
95+40 RT	99+00 RT	2,914 SF

PROPOSED ASPHALT TRAIL PERVIOUS		
FROM	TO	QUANTITY
91+00 RT	91+89 RT	692 SF
92+03 RT	95+40 RT	2,680 SF

RESIDENTIAL DRIVEWAY (MC-301.01)	
STATION	QUANTITY
91+95 RT	393 SF

COMBINATION CONCRETE CURB AND GUTTER - TYPE A (MC-100.01)		
FROM	TO	QUANTITY
91+00 RT	96+09 RT	510 LF

TRAFFIC BARRIER W-BEAM USING 6 FOOT POST (MD-605.22)		
FROM	TO	QUANTITY
95+90 RT	96+80 RT	90 LF

TRAFFIC BARRIER W-BEAM TYPE K END TREATMENT (MD-605.10)	
STATION	QUANTITY
96+80 RT	1 EA

TRAFFIC BARRIER W-BEAM TYPE C END TREATMENT (MD-605.03)	
STATION	QUANTITY
94+90 RT	1 EA

FULL DEPTH PAVEMENT (2' WIDTH ADJACENT TO CURB)		
FROM	TO	QUANTITY
91+00 RT	96+09 RT	1,020 SF

RESET MAILBOX	
STATION	QUANTITY
91+90 RT	1 EA

NOTE: INCIDENTAL TO CLEARING AND GRUBBING

LEGEND

- LOD — LIMIT OF DISTURBANCE
- LIMIT OF GRADING
- PROPOSED PAVEMENT MARKINGS
- TPF — TREE PROTECTION FENCE
- TCE — TEMPORARY CONSTRUCTION EASEMENT
- PE — PERPETUAL EASEMENT
- PROPOSED RETAINING WALL
- PROPOSED UTILITY POLE
- PROPOSED ASPHALT PATH/TRAIL-IMPERVIOUS
- PROPOSED ASPHALT PATH/TRAIL - PERVIOUS
- PROPOSED DRIVEWAY ASPHALT PAVEMENT
- PROPOSED PAVEMENT REMOVAL
- PROPOSED RIP-RAP SLOPE STABILIZATION
- PROPOSED CONCRETE SIDEWALK
- PROPOSED LIGHT POLE

NOTES:

1. THIS SHEET IS PARTIALLY WITHIN THE UPPER ROCK CREEK SPECIAL PROTECTION AREA.
2. ALL UTILITY CONFLICTS AND RELOCATIONS WILL REQUIRE COORDINATION WITH THE APPROPRIATE UTILITY COMPANIES.
3. SEE BR-SERIES SHEETS FOR DETAILS OF PEDESTRIAN BRIDGE.

90% DESIGN
NOT FOR CONSTRUCTION

NO.	REVISION	DATE	BY

MONTGOMERY COUNTY
DEPARTMENT OF TRANSPORTATION
GAITHERSBURG, MARYLAND

RECOMMENDED FOR APPROVAL

Chief, Design Section — Date

APPROVED

Chief, Division of Transportation Engineering — Date

Designed by: ADH Drawn by: TMB Checked by: JJR

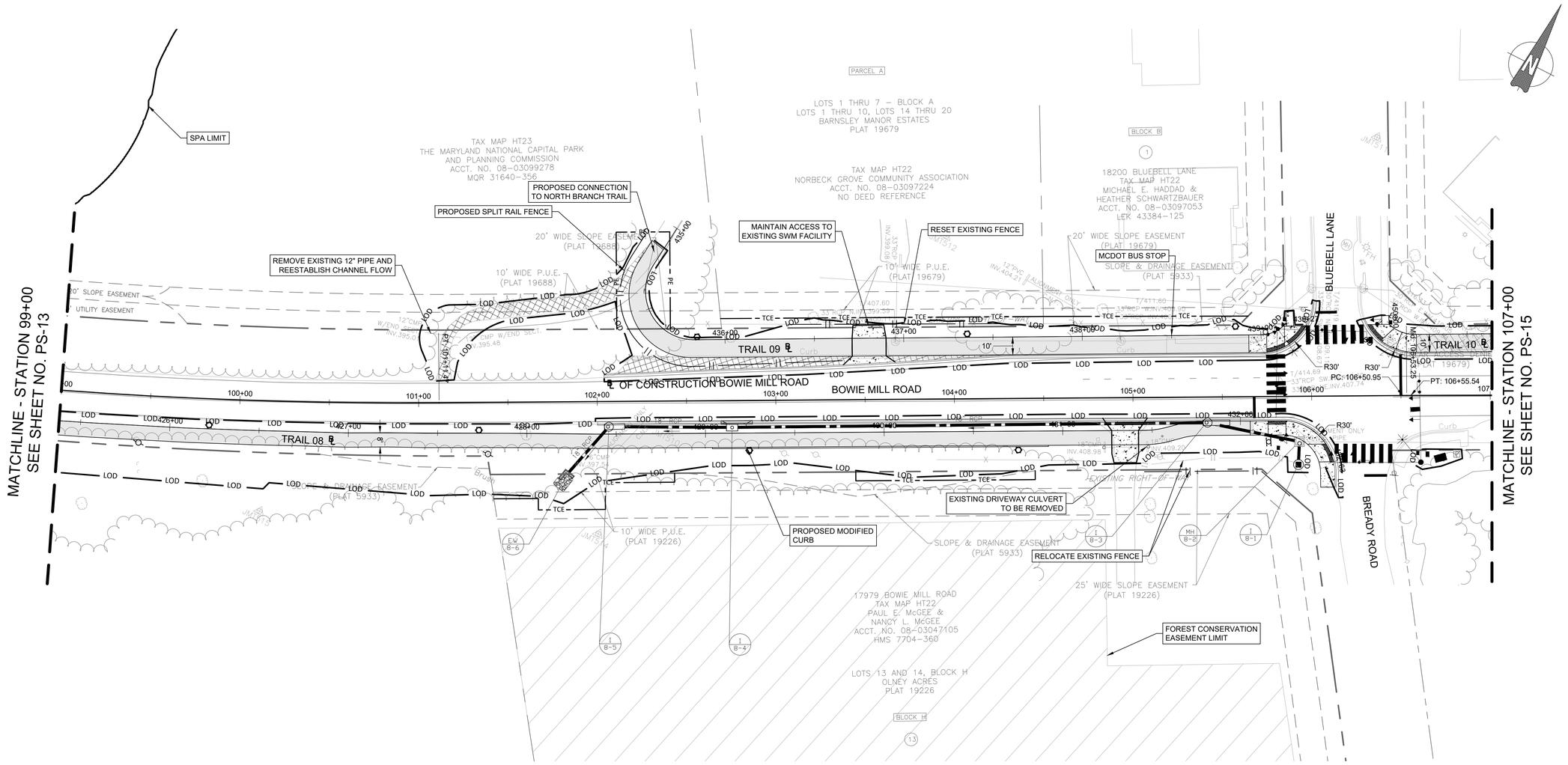
PS-13
ROADWAY PLAN
BOWIE MILL ROAD
BIKEWAY

M-NCPPC PERMIT NO. MR2023016 SHA TRACKING NO. 24APMO039XX

0 30' 60'

SCALE: 1"=30' DATE: APRIL 2025

Project No. : 502108 Sheet 54 of 393



PROPOSED ASPHALT TRAIL PERVIOUS		
FROM	TO	QUANTITY
106+59 LT	107+00 LT	412 SF

PROPOSED ASPHALT TRAIL IMPERVIOUS		
FROM	TO	QUANTITY
99+00 RT	104+89 RT	4,718 SF
105+02 RT	105+67 RT	518 SF
102+18 LT	105+65 LT	3,857 SF

RESIDENTIAL SIDEWALK (MC-110.01)		
FROM	TO	QUANTITY
105+65 RT	106+13 RT	484 SF
105+65 LT	105+97 LT	280 SF
106+32 LT	106+59 LT	250 SF

RESIDENTIAL DRIVEWAY (MC-301.01)	
STATION	QUANTITY
103+50 LT	231 SF
104+95 RT	356 SF

DETECTABLE WARNING SURFACE (MD-655.40)	
STATION	QUANTITY
105+80 RT	20 SF
105+80 LT	21 SF
105+95 LT	26 SF
106+10 RT	22 SF
106+33 RT	22 SF

COMBINATION CONCRETE CURB AND GUTTER - TYPE A (MC-100.01.)		
FROM	TO	QUANTITY
102+00 RT	106+13 RT	438 LF
102+04 LT	106+00 LT	411 LF
106+30 LT	107+00 LT	79 LF

FULL DEPTH PAVEMENT (2' WIDTH ADJACENT TO CURB)		
FROM	TO	QUANTITY
102+00 RT	106+13 RT	876 SF
102+04 LT	106+00 LT	822 SF
106+30 LT	107+00 LT	158 SF

REMOVE EXISTING PAVEMENT / SIDEWALK		
FROM	TO	QUANTITY
101+09 LT	104+28 LT	1,939 LF

SPLIT RAIL FENCE		
FROM	TO	QUANTITY
102+13 LT	103+38 LT	184 LF

REMOVE AND RESET WOOD FENCE		
FROM	TO	QUANTITY
103+07 LT	104+27 LT	120 LF
105+06 RT	105+87 RT	87 LF

MODIFIED CURB (18" MAX HEIGHT)		
FROM	TO	QUANTITY
102+64 RT	104+52 RT	188 LF

RESET MAILBOX	
STATION	QUANTITY
105+16 RT	1 EA

NOTE: INCIDENTAL TO CLEARING AND GRUBBING

LEGEND

- LOD — LIMIT OF DISTURBANCE
- LIMIT OF GRADING
- PROPOSED PAVEMENT MARKINGS
- TPF — TREE PROTECTION FENCE
- TCE — TEMPORARY CONSTRUCTION EASEMENT
- PE — PERPETUAL EASEMENT
- PROPOSED RETAINING WALL
- PROPOSED UTILITY POLE
- PROPOSED ASPHALT PATH/TRAIL-IMPERVIOUS
- PROPOSED ASPHALT PATH/TRAIL - PERVIOUS
- PROPOSED DRIVEWAY ASPHALT PAVEMENT
- PROPOSED PAVEMENT REMOVAL
- PROPOSED RIP-RAP SLOPE STABILIZATION
- PROPOSED CONCRETE SIDEWALK
- PROPOSED LIGHT POLE

NOTES:

1. ALL UTILITY CONFLICTS AND RELOCATIONS WILL REQUIRE COORDINATION WITH THE APPROPRIATE UTILITY COMPANIES.
2. PROPOSED TRAFFIC SIGNAL TO BE INSTALLED AT BLUEBELL LANE / BREADY ROAD UNDER THIS CONTRACT. SEE SG-SERIES FOR DETAILS OF PROPOSED TRAFFIC SIGNAL DESIGN.

90% DESIGN
NOT FOR CONSTRUCTION

NO.	REVISION	DATE	BY

MONTGOMERY COUNTY
DEPARTMENT OF TRANSPORTATION
GAITHERSBURG, MARYLAND

RECOMMENDED FOR APPROVAL

Chief, Design Section — Date

APPROVED

Chief, Division of Transportation Engineering — Date

Designed by: ADH Drawn by: TMB Checked by: JJR

PS-14
ROADWAY PLAN
BOWIE MILL ROAD BIKEWAY

M-NCPPC PERMIT NO. MR2023016 SHA TRACKING NO. 24APMO039XX

0 30' 60'
SCALE: 1"=30'

DATE: APRIL 2025

Project No. : 502108 Sheet 55 of 393

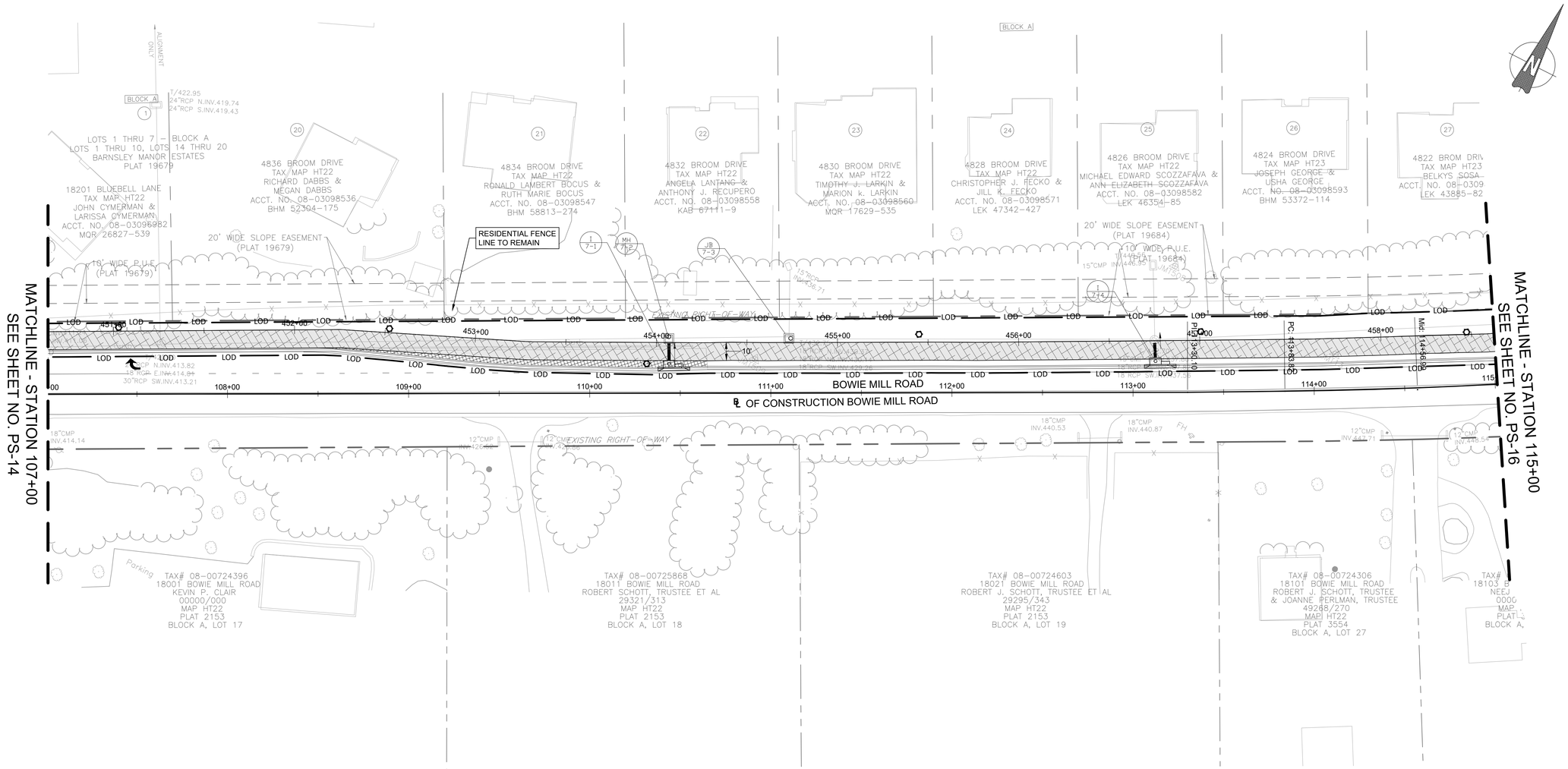
FILE NAME: C:\pwworking\jmt\d0642115\pHD_Bowie Mill Road.dwg LAYOUT NAME: PS-14 PLOTTED: Monday, April 07, 2025 - 2:23pm USER: AHavener

PROPOSED ASPHALT TRAIL PERVIOUS		
FROM	TO	QUANTITY
107+00	115+00	7,929 SF

REMOVE EXISTING PAVEMENT / SIDEWALK		
FROM	TO	QUANTITY
108+50 LT	110+65 LT	538 SF

COMBINATION CONCRETE CURB AND GUTTER - TYPE A (MC-100.01)		
FROM	TO	QUANTITY
107+00 LT	115+00 LT	800 LF

FULL DEPTH PAVEMENT (2' WIDTH ADJACENT TO CURB)		
FROM	TO	QUANTITY
107+00 LT	115+00 LT	1,600 SF



LEGEND

- LOD — LIMIT OF DISTURBANCE
- LIMIT OF GRADING
- PROPOSED PAVEMENT MARKINGS
- TPF — TREE PROTECTION FENCE
- TCE — TEMPORARY CONSTRUCTION EASEMENT
- PE — PERPETUAL EASEMENT
- PROPOSED RETAINING WALL
- PROPOSED UTILITY POLE
- PROPOSED ASPHALT PATH/TRAIL-IMPERVIOUS
- PROPOSED ASPHALT PATH/TRAIL - PERVIOUS
- PROPOSED DRIVEWAY ASPHALT PAVEMENT
- PROPOSED PAVEMENT REMOVAL
- PROPOSED RIP-RAP SLOPE STABILIZATION
- PROPOSED CONCRETE SIDEWALK
- PROPOSED LIGHT POLE

NOTES:

1. ALL UTILITY CONFLICTS AND RELOCATIONS WILL REQUIRE COORDINATION WITH THE APPROPRIATE UTILITY COMPANIES.

90% DESIGN
NOT FOR CONSTRUCTION

NO.	REVISION	DATE	BY

MONTGOMERY COUNTY
DEPARTMENT OF TRANSPORTATION
GAITHERSBURG, MARYLAND

RECOMMENDED FOR APPROVAL

Chief, Design Section — Date

APPROVED

Chief, Division of Transportation Engineering — Date

Designed by: ADH Drawn by: TMB Checked by: JJR

PS-15
ROADWAY PLAN
BOWIE MILL ROAD BIKEWAY

M-NCPPC PERMIT NO. MR2023016 SHA TRACKING NO. 24APMO039XX

0 30' 60'

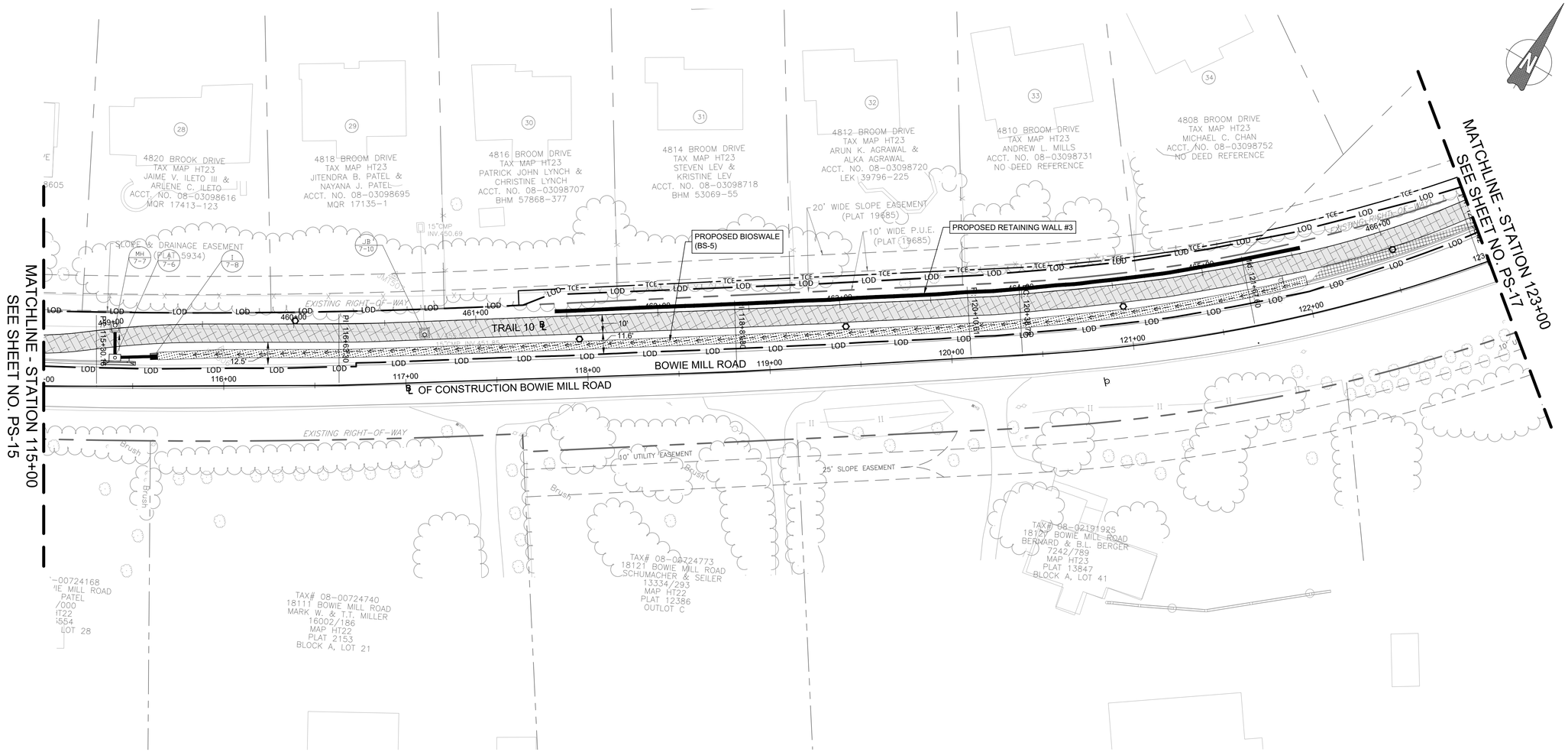
SCALE: 1"=30'

DATE: APRIL 2025

Project No. : 502108

Sheet 56 of 393

FILE NAME: C:\pwworking\jmt\d0642115\pHD_Bowie Mill Road.dwg LAYOUT NAME: PS-15 PLOTTED: Monday, April 07, 2025 - 2:23pm USER: AHavener



PROPOSED ASPHALT TRAIL PERVIOUS		
FROM	TO	QUANTITY
115+00 LT	123+00 LT	7,884 SF

REMOVE EXISTING PAVEMENT / SIDEWALK		
FROM	TO	QUANTITY
122+04 LT	123+00 LT	421 SF

COMBINATION CONCRETE CURB AND GUTTER - TYPE A (MC-100.01)		
FROM	TO	QUANTITY
115+00 LT	115+50 LT	150 LF
122+00 LT	123+00 LT	100 LF

FULL DEPTH PAVEMENT (2' WIDTH ADJACENT TO CURB)		
FROM	TO	QUANTITY
115+00 LT	115+50 LT	300 SF
122+00 LT	123+00 LT	200 SF

LEGEND

- LOD — LIMIT OF DISTURBANCE
- LIMIT OF GRADING
- PROPOSED PAVEMENT MARKINGS
- TPF — TREE PROTECTION FENCE
- TCE — TEMPORARY CONSTRUCTION EASEMENT
- PE — PERPETUAL EASEMENT
- PROPOSED RETAINING WALL
- PROPOSED UTILITY POLE
- PROPOSED ASPHALT PATH/TRAIL-IMPERVIOUS
- PROPOSED ASPHALT PATH/TRAIL - PERVIOUS
- PROPOSED DRIVEWAY ASPHALT PAVEMENT
- PROPOSED PAVEMENT REMOVAL
- PROPOSED RIP-RAP SLOPE STABILIZATION
- PROPOSED CONCRETE SIDEWALK
- PROPOSED LIGHT POLE

NOTES:

1. ALL UTILITY CONFLICTS AND RELOCATIONS WILL REQUIRE COORDINATION WITH THE APPROPRIATE UTILITY COMPANIES.
2. SEE ST-SERIES FOR RETAINING WALL DETAILS.

90% DESIGN
NOT FOR CONSTRUCTION

NO.	REVISION	DATE	BY

MONTGOMERY COUNTY
DEPARTMENT OF TRANSPORTATION
GAITHERSBURG, MARYLAND

RECOMMENDED FOR APPROVAL

Chief, Design Section — Date

APPROVED

Chief, Division of Transportation Engineering — Date

Designed by: ADH Drawn by: TMB Checked by: JJR

PS-16
ROADWAY PLAN
BOWIE MILL ROAD
BIKEWAY

M-NCPPC PERMIT NO. MR2023016 SHA TRACKING NO. 24APMO039XX

0 30' 60'

SCALE: 1"=30' DATE: APRIL 2025

Project No. : 502108 Sheet 57 of 393

FILE NAME: C:\pwworking\jmt\d0642115\pHD_Bowie Mill Road.dwg LAYOUT NAME: PS-16 PLOTTED: Monday, April 07, 2025 - 2:24pm USER: AHavener

PROPOSED ASPHALT TRAIL PERVIOUS		
FROM	TO	QUANTITY
123+00 LT	125+60 LT	2,592 SF
126+52 LT	131+00 LT	4,577 SF

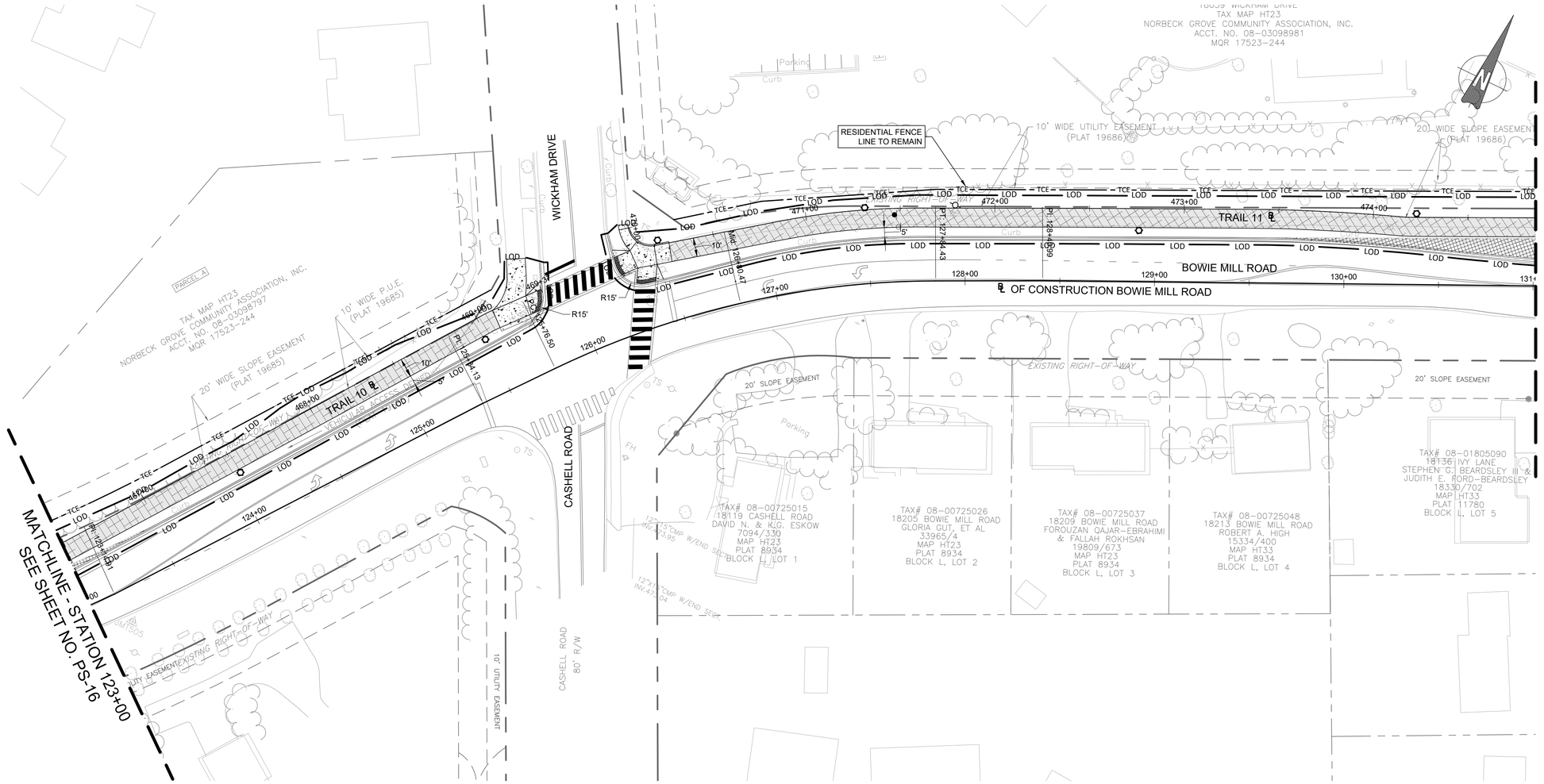
RESIDENTIAL SIDEWALK (MC-110.01)		
FROM	TO	QUANTITY
125+60 LT	125+88 LT	539 SF
126+25 LT	126+52 LT	498 SF

REMOVE EXISTING PAVEMENT / SIDEWALK		
FROM	TO	QUANTITY
123+00 LT	123+50 LT	65 SF
129+65 LT	131+00 LT	697 SF

DETECTABLE WARNING SURFACE (MD-655.40)	
STATION	QUANTITY
125+85 LT	24 SF
126+25 LT	20 SF
126+35 LT	21 SF

COMBINATION CONCRETE CURB AND GUTTER - TYPE A (MC-100.01)		
FROM	TO	QUANTITY
123+00 LT	125+92 LT	309 LF
126+25 LT	131+00 LT	510 LF

FULL DEPTH PAVEMENT (2' WIDTH ADJACENT TO CURB)		
FROM	TO	QUANTITY
123+00 LT	125+92 LT	618 SF
126+25 LT	131+00 LT	1,020 SF



LEGEND

- LOD — LIMIT OF DISTURBANCE
- LIMIT OF GRADING
- PROPOSED PAVEMENT MARKINGS
- TPF — TREE PROTECTION FENCE
- TCE — TEMPORARY CONSTRUCTION EASEMENT
- PE — PERPETUAL EASEMENT
- PROPOSED RETAINING WALL
- PROPOSED UTILITY POLE
- PROPOSED ASPHALT PATH/TRAIL-IMPERVIOUS
- PROPOSED ASPHALT PATH/TRAIL - PERVIOUS
- PROPOSED DRIVEWAY ASPHALT PAVEMENT
- PROPOSED PAVEMENT REMOVAL
- PROPOSED RIP-RAP SLOPE STABILIZATION
- PROPOSED CONCRETE SIDEWALK
- PROPOSED LIGHT POLE

NOTES:

1. ALL UTILITY CONFLICTS AND RELOCATIONS WILL REQUIRE COORDINATION WITH THE APPROPRIATE UTILITY COMPANIES.

90% DESIGN
NOT FOR CONSTRUCTION

NO.	REVISION	DATE	BY

MONTGOMERY COUNTY
DEPARTMENT OF TRANSPORTATION
GAITHERSBURG, MARYLAND

RECOMMENDED FOR APPROVAL

Chief, Design Section — Date

APPROVED

Chief, Division of Transportation Engineering — Date

Designed by: ADH Drawn by: TMB Checked by: JJR

PS-17
ROADWAY PLAN
BOWIE MILL ROAD
BIKEWAY

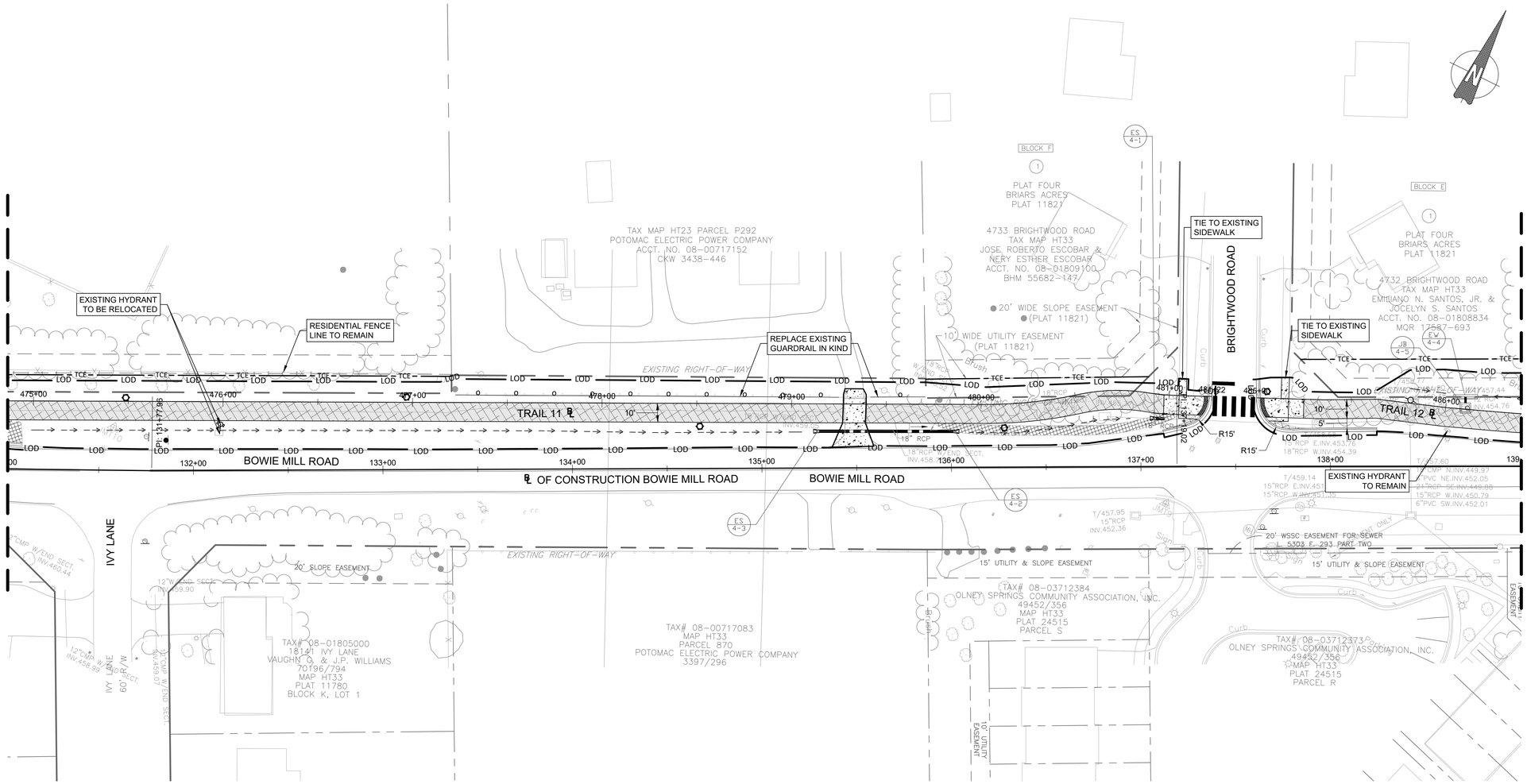
M-NCPPC PERMIT NO. MR2023016 SHA TRACKING NO. 24APMO039XX

0 30' 60'
SCALE: 1"=30'

DATE: APRIL 2025

Project No. : 502108 Sheet 58 of 393

FILE NAME: C:\pwworking\jmt\d0642115\pHD_Bowie Mill Road.dwg LAYOUT NAME: PS-17 PLOTTED: Monday, April 07, 2025 - 2:24pm USER: AHavener



PROPOSED ASPHALT TRAIL PERVIOUS		
FROM	TO	QUANTITY
131+10 LT	135+43 LT	4,424 SF
135+55 LT	137+12 LT	1,579 SF
137+86 LT	139+00 LT	1,145 SF

RESIDENTIAL DRIVEWAY (MC-301.01)	
STATION	QUANTITY
135+50 LT	427 SF

RESIDENTIAL SIDEWALK (MC-110.01)		
FROM	TO	QUANTITY
137+12 LT	137+36 LT	259 SF
137+62LT	137+86 LT	268 SF

DETECTABLE WARNING SURFACE (MD-655.40)	
STATION	QUANTITY
137+36 LT	22 SF
137+62 LT	22 SF

COMBINATION CONCRETE CURB AND GUTTER - TYPE A (MC-100.01)		
FROM	TO	QUANTITY
131+00 LT	131+10 LT	10 LF
137+12 LT	137+36 LT	40 LF
137+62 LT	138+25 LT	82 LF

FULL DEPTH PAVEMENT (2' WIDTH ADJACENT TO CURB)		
FROM	TO	QUANTITY
131+00 LT	131+10 LT	20 SF
137+12 LT	137+36 LT	80 SF
137+62 LT	138+25 LT	164 SF

REMOVE EXISTING PAVEMENT / SIDEWALK		
FROM	TO	QUANTITY
131+00 LT	131+10 LT	98 SF
135+90 LT	137+30 LT	628 SF
137+62 LT	137+86 LT	29 SF

TRAFFIC BARRIER W-BEAM USING 6 FOOT POST (MD-605.22)		
FROM	TO	QUANTITY
133+38 RT	135+40 RT	202 LF
135+57 RT	135+86 RT	29 LF

TRAFFIC BARRIER W-BEAM TYPE K END TREATMENT (MD-605.10)	
STATION	QUANTITY
133+38 RT	1 EA
135+40 RT	1 EA
135+57 RT	1 EA
135+86 RT	1 EA

LEGEND

- LOD — LIMIT OF DISTURBANCE
- LIMIT OF GRADING
- PROPOSED PAVEMENT MARKINGS
- TPF — TREE PROTECTION FENCE
- TCE — TEMPORARY CONSTRUCTION EASEMENT
- PE — PERPETUAL EASEMENT
- PROPOSED RETAINING WALL
- PROPOSED UTILITY POLE
- PROPOSED ASPHALT PATH/TRAIL-IMPERVIOUS
- PROPOSED ASPHALT PATH/TRAIL - PERVIOUS
- PROPOSED DRIVEWAY ASPHALT PAVEMENT
- PROPOSED PAVEMENT REMOVAL
- PROPOSED RIP-RAP SLOPE STABILIZATION
- PROPOSED CONCRETE SIDEWALK
- PROPOSED LIGHT POLE

NOTES:

1. ALL UTILITY CONFLICTS AND RELOCATIONS WILL REQUIRE COORDINATION WITH THE APPROPRIATE UTILITY COMPANIES.

90% DESIGN
NOT FOR CONSTRUCTION

NO.	REVISION	DATE	BY

MONTGOMERY COUNTY
DEPARTMENT OF TRANSPORTATION
GAITHERSBURG, MARYLAND

RECOMMENDED FOR APPROVAL

Chief, Design Section — Date

APPROVED

Chief, Division of Transportation Engineering — Date

Designed by: ADH Drawn by: TMB Checked by: JJR

PS-18
ROADWAY PLAN
BOWIE MILL ROAD
BIKEWAY

M-NCPPC PERMIT NO. MR2023016 SHA TRACKING NO. 24APMO039XX

0 30' 60'

SCALE: 1"=30'

DATE: APRIL 2025

Project No. : 502108

Sheet 59 of 393

FILE NAME: C:\pwworking\jmt\d0642115\pHD_Bowie Mill Road.dwg LAYOUT NAME: PS-18 PLOTTED: Monday, April 07, 2025 - 2:25pm USER: AHavener

PROPOSED ASPHALT TRAIL PERVIOUS		
FROM	TO	QUANTITY
139+00 LT	144+66 LT	5,663 SF
145+37 LT	147+00 LT	1,628 SF

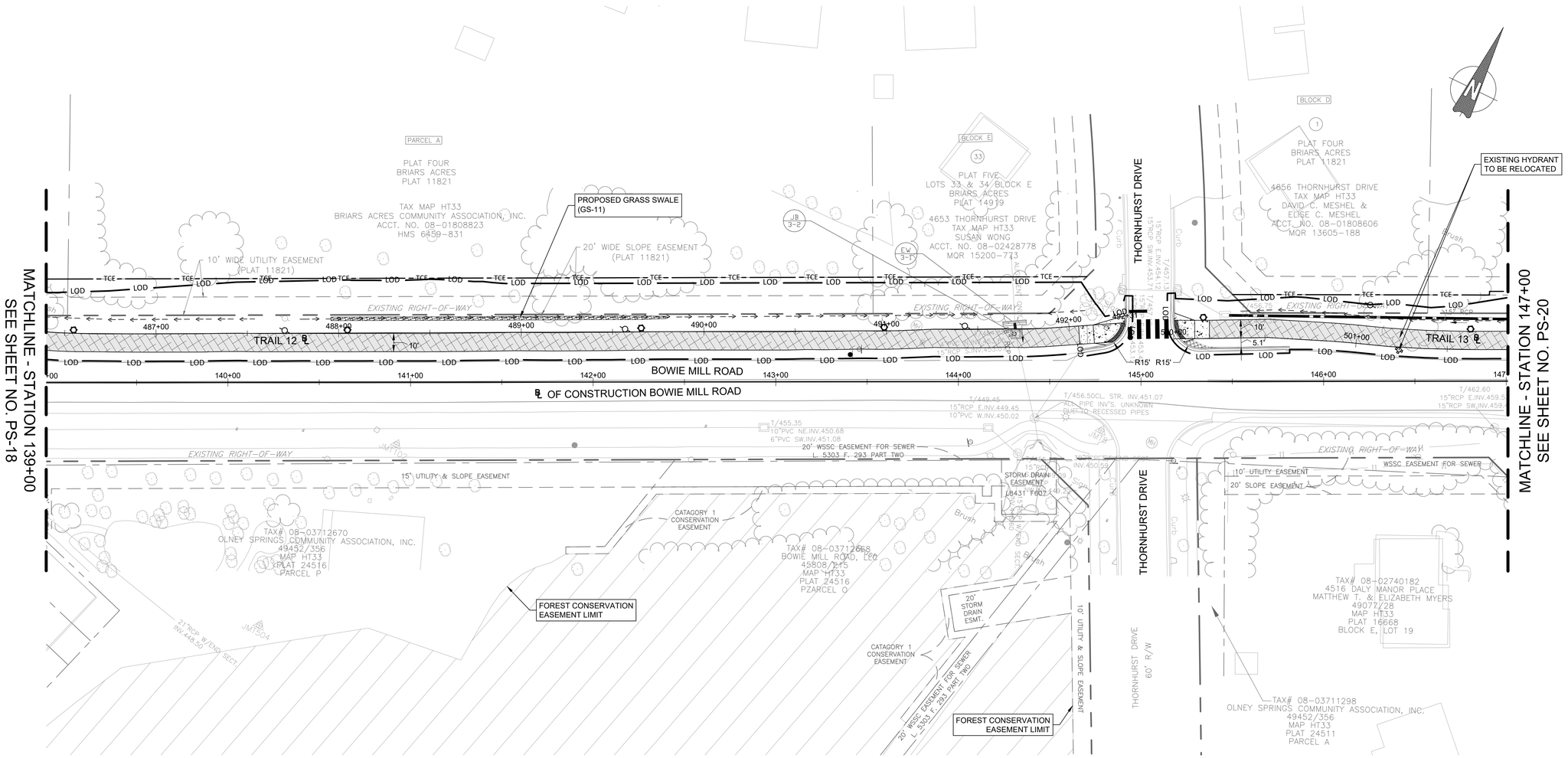
DETECTABLE WARNING SURFACE (MD-655.40)	
STATION	QUANTITY
144+90 LT	27 SF
145+18 LT	22 SF

COMBINATION CONCRETE CURB AND GUTTER - TYPE A (MC-100.01)		
FROM	TO	QUANTITY
144+67 LT	144+90 LT	46 LF
145+18 LT	145+81 LT	88 LF

RESIDENTIAL SIDEWALK (MC-110.01)		
FROM	TO	QUANTITY
144+66 LT	144+90 LT	246 SF
145+18 LT	145+37 LT	191 SF

FULL DEPTH PAVEMENT (2' WIDTH ADJACENT TO CURB)		
FROM	TO	QUANTITY
144+66 LT	144+90 LT	492 SF
145+18 LT	145+37 LT	382 SF

REMOVE EXISTING PAVEMENT / SIDEWALK		
FROM	TO	QUANTITY
145+24 LT	145+43 LT	31 SF


MATCHLINE - STATION 139+00
SEE SHEET NO. PS-18
MATCHLINE - STATION 147+00
SEE SHEET NO. PS-20
PARCEL A
PLAT FOUR
BRIARS ACRES
PLAT 11821
TAX MAP HT33
BRIARS ACRES COMMUNITY ASSOCIATION, INC.
ACCT. NO. 08-01808823
HMS 6459-831
10' WIDE UTILITY EASEMENT (PLAT 11821)
PROPOSED GRASS SWALE (GS-11)
20' WIDE SLOPE EASEMENT (PLAT 11821)
BLOCK E
PLAT FIVE
LOTS 33 & 34 BLOCK E
BRIARS ACRES
PLAT 14919
4653 THORNHURST DRIVE
TAX MAP HT33
SUSAN WONG
ACCT. NO. 08-02428778
MQR 15200-773
THORNHURST DRIVE
BLOCK D
PLAT FOUR
BRIARS ACRES
PLAT 11821
4656 THORNHURST DRIVE
TAX MAP HT33
DAVID C. MESHEL &
ELISE C. MESHEL
ACCT. NO. 08-01808606
MQR 13605-188
EXISTING HYDRANT TO BE RELOCATED
TRAIL 12
TRAIL 13
BOWIE MILL ROAD
℄ OF CONSTRUCTION BOWIE MILL ROAD
EXISTING RIGHT-OF-WAY
15' UTILITY & SLOPE EASEMENT
20' WSSC EASEMENT FOR SEWER L. 5303 F. 293 PART TWO
WSSC EASEMENT FOR SEWER
10' UTILITY EASEMENT
20' SLOPE EASEMENT
STORM DRAIN EASEMENT L8431 F602
CATAGORY 1 CONSERVATION EASEMENT
FOREST CONSERVATION EASEMENT LIMIT
TAX# 08-03712670
OLNEY SPRINGS COMMUNITY ASSOCIATION, INC.
49452/356
MAP HT33
PLAT 24516
PARCEL P
TAX# 08-03712668
BOWIE MILL ROAD, LLC
45808/215
MAP HT33
PLAT 24516
PZARCEL Q
20' STORM DRAIN ESMT.
10' UTILITY & SLOPE EASEMENT
20' WSSC EASEMENT FOR SEWER L. 5303 F. 293 PART TWO
THORNHURST DRIVE 60' R/W
TAX# 08-02740182
4516 DALY MANOR PLACE
MATTHEW T. & ELIZABETH MYERS
49077/28
MAP HT33
PLAT 16668
BLOCK E, LOT 19
TAX# 08-03711298
OLNEY SPRINGS COMMUNITY ASSOCIATION, INC.
49452/356
MAP HT33
PLAT 24511
PARCEL A
21"RCP W/END SECT. INV.448.50
JMT504
T/456.50CL. STR. INV.451.07
ALL PIPE INV'S. UNKNOWN
DUE TO RECESSED PIPES
T/455.35
10"PVC NE.INV.450.68
6"PVC SW.INV.451.08
T/449.45
15"RCP E.INV.449.45
10"PVC W.INV.450.02
T/462.60
15"RCP E.INV.459.5
15"RCP SW.INV.459.
15"RCP E.INV.457.13
15"RCP SW.INV.453.72
T/457.13
15"RCP E.INV.453.63
15"RCP SW.INV.453.63
T/452.20
15"RCP E.INV.450.55
15"RCP W.INV.450.55
T/452.20
15"RCP E.INV.449.20
15"RCP W.INV.449.20
JMT505
JMT506
JMT507
JMT508
JMT509
JMT510
JMT511
JMT512
JMT513
JMT514
JMT515
JMT516
JMT517
JMT518
JMT519
JMT520
JMT521
JMT522
JMT523
JMT524
JMT525
JMT526
JMT527
JMT528
JMT529
JMT530
JMT531
JMT532
JMT533
JMT534
JMT535
JMT536
JMT537
JMT538
JMT539
JMT540
JMT541
JMT542
JMT543
JMT544

PROPOSED ASPHALT TRAIL PERVIOUS		
FROM	TO	QUANTITY
147+00 LT	155+00 LT	8,005 SF

MATCHLINE - STATION 147+00
SEE SHEET NO. PS-19

MATCHLINE - STATION 155+00
SEE SHEET NO. PS-21

PARCEL B

PLAT FOUR
BRIARS ACRES
PLAT 11821

TAX MAP HT33
BRIARS ACRES COMMUNITY ASSOCIATION, INC.
ACCT. NO. 08-01808594
HMS 6459-831

PROPOSED BIOSWALE (BS-12)

PROPOSED GRASS SWALE (GS-4)

10' WIDE UTILITY EASEMENT (PLAT 11821)

20' WIDE SLOPE EASEMENT (PLAT 11821)

10' WIDE UTILITY EASEMENT (PLAT 11820)

TRAIL 13 ℄

℄ OF CONSTRUCTION BOWIE MILL ROAD

BOWIE MILL ROAD

DALY MANOR PLACE
50' R/W

DARNELL DRIVE
VARIABLE R/W

10' UTILITY EASEMENT

EXISTING RIGHT-OF-WAY

20' SLOPE EASEMENT

TAX# 08-02740125
4509 DALY MANOR PLACE
DAVID W. GRIFFITH & SUNITA K. BHATIA
27942/216
MAP HT33
PLAT 16668
BLOCK E, LOT 13

TAX# 08-02740114
4505 DALY MANOR PLACE
DANIELL S. & REBECCA G. BARBER
40028/151
MAP HT33
PLAT 16668
BLOCK E, LOT 12

FOREST CONSERVATION EASEMENT LIMIT

TAX# 08-00766527
18324 BOWIE MILL RD
ALICIA MIRANDA ET AL
23969/365
MAP HT33
PLAT 9769
BLOCK E, LOT 1

TAX# 08-00766391
18325 BOWIE MILL RD
ROGER NOGUEIRA
49988/349
MAP HT33
PLAT 9769
BLOCK D, LOT 17

TAX# 08-00766380
18405 BOWIE MILL RD
INGEBORG C. CERNA
16616/190
MAP HT33
PLAT 9769
BLOCK D, LOT 16

LEGEND

- LOD — LIMIT OF DISTURBANCE
- LIMIT OF GRADING
- PROPOSED PAVEMENT MARKINGS
- TPF — TREE PROTECTION FENCE
- TCE — TEMPORARY CONSTRUCTION EASEMENT
- PE — PERPETUAL EASEMENT
- PROPOSED RETAINING WALL
- PROPOSED UTILITY POLE
- PROPOSED ASPHALT PATH/TRAIL-IMPERVIOUS
- PROPOSED ASPHALT PATH/TRAIL - PERVIOUS
- PROPOSED DRIVEWAY ASPHALT PAVEMENT
- PROPOSED PAVEMENT REMOVAL
- PROPOSED RIP-RAP SLOPE STABILIZATION
- PROPOSED CONCRETE SIDEWALK
- PROPOSED LIGHT POLE

NOTES:

1. ALL UTILITY CONFLICTS AND RELOCATIONS WILL REQUIRE COORDINATION WITH THE APPROPRIATE UTILITY COMPANIES.

90% DESIGN
NOT FOR CONSTRUCTION

JMT

NO.	REVISION	DATE	BY

MONTGOMERY COUNTY
DEPARTMENT OF TRANSPORTATION
GAITHERSBURG, MARYLAND

RECOMMENDED FOR APPROVAL

Chief, Design Section — Date

APPROVED

Chief, Division of Transportation Engineering — Date

Designed by: ADH Drawn by: TMB Checked by: JJR

PS-20
ROADWAY PLAN
BOWIE MILL ROAD BIKEWAY

M-NCPPC PERMIT NO. MR2023016 SHA TRACKING NO. 24APMO039XX

0 30' 60'
SCALE: 1"=30'

DATE: APRIL 2025

Project No. : 502108

Sheet 61 of 393

FILE NAME: C:\pwworking\jmt\d0642115\pHD_Bowie Mill Road.dwg LAYOUT NAME: PS-20 PLOTTED: Monday, April 07, 2025 - 2:26pm USER: AHavener

PROPOSED ASPHALT TRAIL PERVIOUS		
FROM	TO	QUANTITY
155+00 LT	159+22 LT	4,216 SF
160+13 LT	160+90 LT	620 SF
161+05 LT	162+00 LT	757 SF
162+11 LT	162+87 LT	611 SF

RESIDENTIAL DRIVEWAY (MC-301.01)	
STATION	QUANTITY
160+95 LT	389 SF
162+05 LT	276 SF
162+95 LT	288 SF

DETECTABLE WARNING SURFACE (MD-655.40)	
STATION	QUANTITY
159+55 LT	36 SF
159+90 LT	21 SF

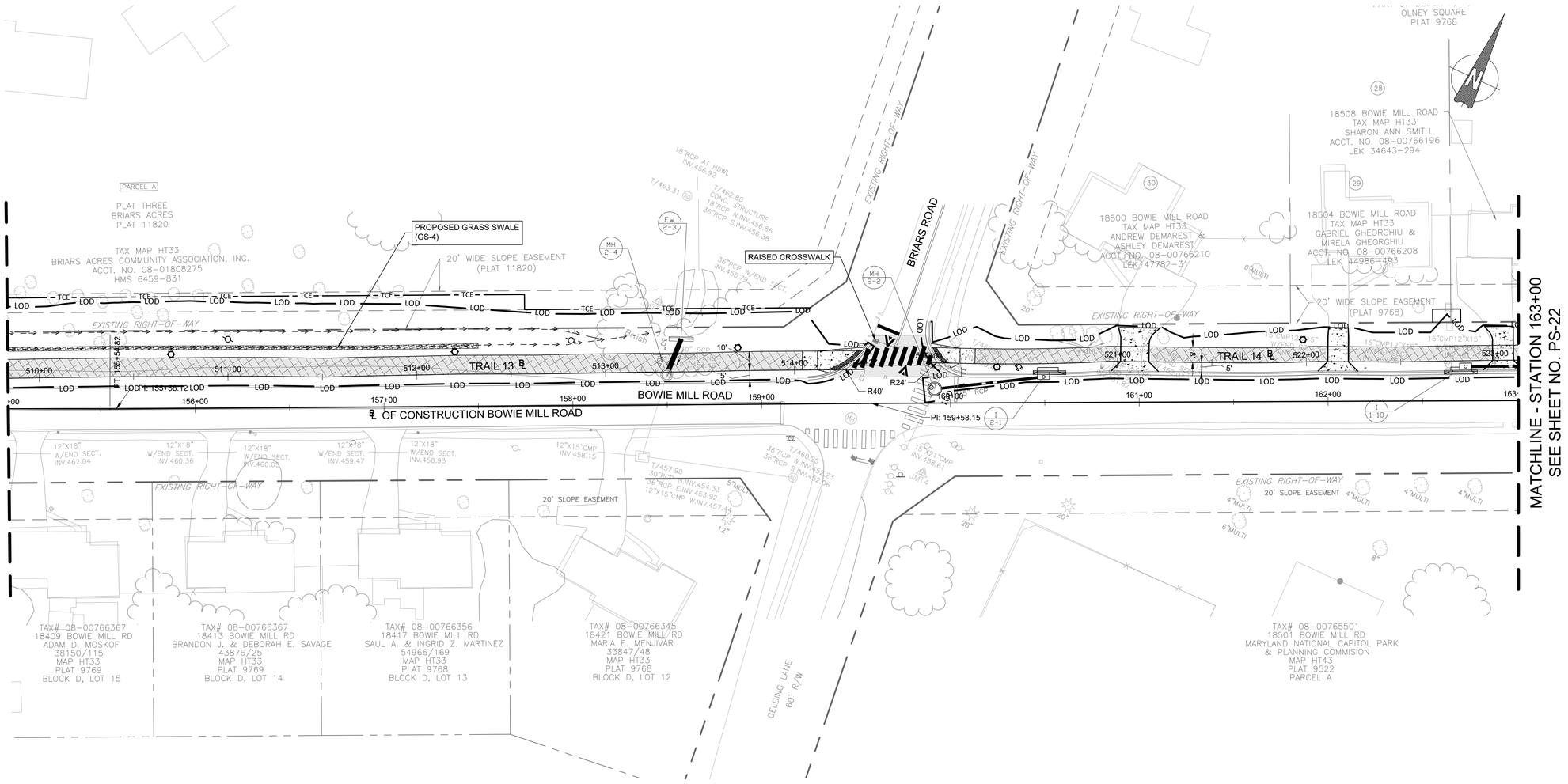
COMBINATION CONCRETE CURB AND GUTTER - TYPE A (MC-100.01)		
FROM	TO	QUANTITY
159+25 LT	159+57 LT	40 LF
159+90 LT	163+00 LT	330 LF

RESIDENTIAL SIDEWALK (MC-110.01)		
FROM	TO	QUANTITY
159+22 LT	159+55 LT	258 SF
159+90 LT	160+13 LT	169 SF

FULL DEPTH PAVEMENT (2' WIDTH ADJACENT TO CURB)		
FROM	TO	QUANTITY
159+25 LT	159+57 LT	80 SF
159+90 LT	163+00 LT	660 SF

RESET MAILBOX	
STATION	QUANTITY
160+80 LT	1 EA
162+20 LT	1 EA

NOTE: INCIDENTAL TO CLEARING AND GRUBBING



LEGEND

- LOD — LIMIT OF DISTURBANCE
- LIMIT OF GRADING
- PROPOSED PAVEMENT MARKINGS
- TPF — TREE PROTECTION FENCE
- TCE — TEMPORARY CONSTRUCTION EASEMENT
- PE — PERPETUAL EASEMENT
- PROPOSED RETAINING WALL
- PROPOSED UTILITY POLE
- PROPOSED ASPHALT PATH/TRAIL-IMPERVIOUS
- PROPOSED ASPHALT PATH/TRAIL - PERVIOUS
- PROPOSED DRIVEWAY ASPHALT PAVEMENT
- PROPOSED PAVEMENT REMOVAL
- PROPOSED RIP-RAP SLOPE STABILIZATION
- PROPOSED CONCRETE SIDEWALK
- PROPOSED LIGHT POLE

NOTES:

1. ALL UTILITY CONFLICTS AND RELOCATIONS WILL REQUIRE COORDINATION WITH THE APPROPRIATE UTILITY COMPANIES.
2. SEE DT-SERIES FOR RAISED CROSSWALK DETAILS.

90% DESIGN
NOT FOR CONSTRUCTION

NO.	REVISION	DATE	BY

MONTGOMERY COUNTY
DEPARTMENT OF TRANSPORTATION
GAITHERSBURG, MARYLAND

RECOMMENDED FOR APPROVAL

Chief, Design Section — Date

APPROVED

Chief, Division of Transportation Engineering — Date

Designed by: ADH Drawn by: TMB Checked by: JJR

PS-21
ROADWAY PLAN
BOWIE MILL ROAD
BIKEWAY

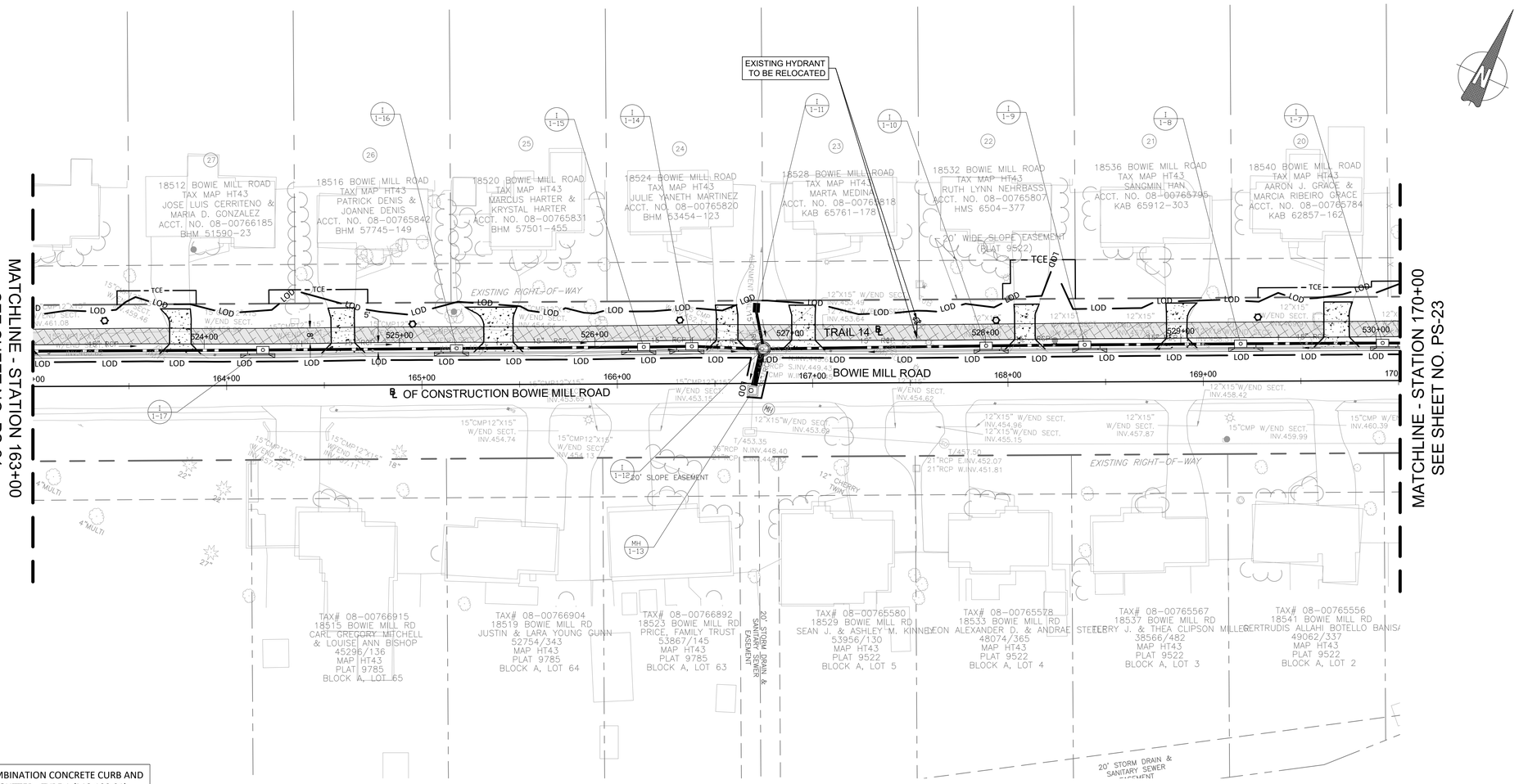
M-NCPPC PERMIT NO. MR2023016 SHA TRACKING NO. 24APMO039XX

0 30' 60'

SCALE: 1"=30' DATE: APRIL 2025

Project No. : 502108 Sheet 62 of 393

FILE NAME: C:\pwworking\jmt\d0642115\pHD_Bowie Mill Road.dwg LAYOUT NAME: PS-21 PLOTTED: Monday, April 07, 2025 - 2:27pm USER: AHavener



PROPOSED ASPHALT TRAIL PERVIOUS		
FROM	TO	QUANTITY
163+00 LT	163+70 LT	581 SF
163+82 LT	164+54 LT	574 SF
164+66 LT	165+32 LT	531 SF
165+47 LT	166+51 LT	832 SF
166+62 LT	166+89 LT	219 SF
167+01 LT	168+04 LT	817 SF
168+14 LT	168+81 LT	537 SF
168+91 LT	169+62 LT	560 SF
169+75 LT	170+00	201 SF

RESIDENTIAL DRIVEWAY (MC-301.01)	
STATION	QUANTITY
163+75 LT	287 SF
164+60 LT	305 SF
165+40 LT	403 SF
166+55 LT	278 SF
166+95 LT	305 SF
168+10 LT	275 SF
168+85 LT	283 SF
169+70 LT	327 SF

RESET MAILBOX	
STATION	QUANTITY
163+10 LT	1 EA
163+95 LT	1 EA
164+75 LT	1 EA
165+55 LT	1 EA
166+75 LT	1 EA
167+10 LT	1 EA
168+25 LT	1 EA
169+00 LT	1 EA
169+55 LT	1 EA

NOTE: INCIDENTAL TO CLEARING AND GRUBBING

COMBINATION CONCRETE CURB AND GUTTER - TYPE A (MC-100.01)		
FROM	TO	QUANTITY
163+00 LT	170+00 LT	700 LF

FULL DEPTH PAVEMENT (2' WIDTH ADJACENT TO CURB)		
FROM	TO	QUANTITY
163+00 LT	170+00 LT	1,400 SF

LEGEND

- LOD — LIMIT OF DISTURBANCE
- LIMIT OF GRADING
- PROPOSED PAVEMENT MARKINGS
- TPF — TREE PROTECTION FENCE
- TCE — TEMPORARY CONSTRUCTION EASEMENT
- PE — PERPETUAL EASEMENT
- PROPOSED RETAINING WALL
- PROPOSED UTILITY POLE
- PROPOSED ASPHALT PATH/TRAIL-IMPERVIOUS
- PROPOSED ASPHALT PATH/TRAIL - PERVIOUS
- PROPOSED DRIVEWAY ASPHALT PAVEMENT
- PROPOSED PAVEMENT REMOVAL
- PROPOSED RIP-RAP SLOPE STABILIZATION
- PROPOSED CONCRETE SIDEWALK
- PROPOSED LIGHT POLE

NOTES:

1. ALL UTILITY CONFLICTS AND RELOCATIONS WILL REQUIRE COORDINATION WITH THE APPROPRIATE UTILITY COMPANIES.

90% DESIGN
NOT FOR CONSTRUCTION

NO.	REVISION	DATE	BY

MONTGOMERY COUNTY
DEPARTMENT OF TRANSPORTATION
GAITHERSBURG, MARYLAND

RECOMMENDED FOR APPROVAL

Chief, Design Section — Date

APPROVED

Chief, Division of Transportation Engineering — Date

Designed by: ADH Drawn by: TMB Checked by: JJR

PS-22
ROADWAY PLAN
BOWIE MILL ROAD
BIKEWAY

M-NCPPC PERMIT NO. MR2023016 SHA TRACKING NO. 24APMO039XX

0 30' 60'
SCALE: 1"=30'

DATE: APRIL 2025

Project No. : 502108 Sheet 63 of 393

PROPOSED ASPHALT TRAIL IMPERVIOUS		
FROM	TO	QUANTITY
171+82 LT	172+28 LT	355 SF
172+40 LT	173+38 LT	755 SF
173+51 LT	173+94 LT	340 SF
174+06 LT	174+45 LT	319 SF
174+60 LT	174+69 LT	125 SF

PROPOSED ASPHALT TRAIL PERVIOUS		
FROM	TO	QUANTITY
170+00 LT	171+21 LT	970 SF

RESIDENTIAL SIDEWALK (MC-110.01)		
FROM	TO	QUANTITY
171+21 LT	171+40 LT	125 SF
171+64 LT	171+82 LT	125 SF
174+46 LT	174+69 LT	173 SF

RESIDENTIAL DRIVEWAY (MC-301.01)	
STATION	QUANTITY
172+35 LT	307 SF
173+45 LT	321 SF
174+00 LT	326 SF

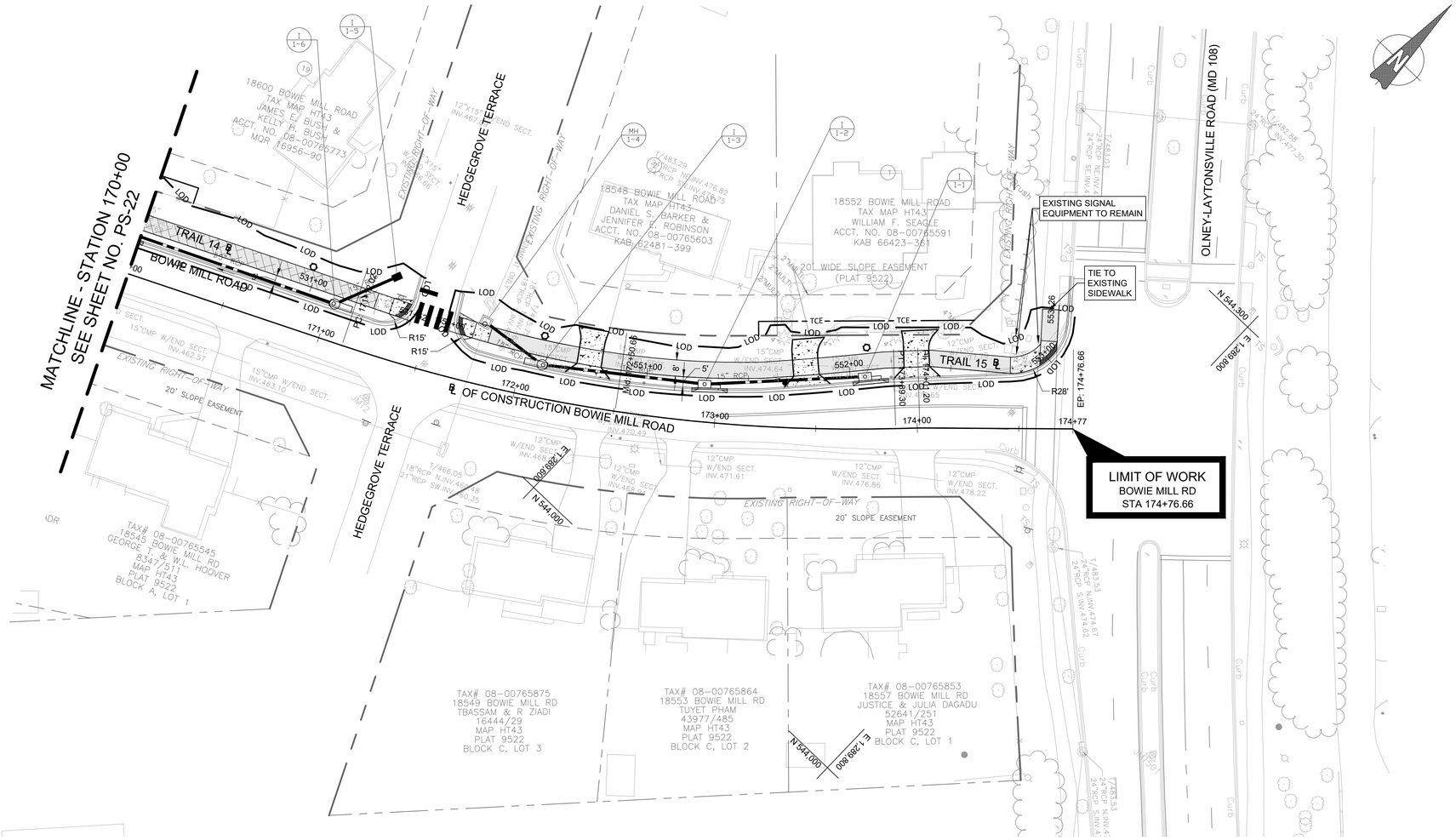
DETECTABLE WARNING SURFACE (MD-655.40)	
STATION	QUANTITY
171+40 LT	18 SF
171+64 LT	18 SF
174+65 LT	24 SF

RESET MAILBOX	
STATION	QUANTITY
172+65 LT	1 EA
173+85 LT	1 EA

NOTE: INCIDENTAL TO CLEARING AND GRUBBING

COMBINATION CONCRETE CURB AND GUTTER - TYPE A (MC-100.01)		
FROM	TO	QUANTITY
170+00 LT	171+40 LT	161 LF
171+63 LT	174+75 LT	363 LF

FULL DEPTH PAVEMENT (2' WIDTH ADJACENT TO CURB)		
FROM	TO	QUANTITY
170+00 LT	171+40 LT	382 LF
171+63 LT	174+75 LT	726 LF



LEGEND

- LOD — LIMIT OF DISTURBANCE
- LIMIT OF GRADING
- PROPOSED PAVEMENT MARKINGS
- TPF — TREE PROTECTION FENCE
- TCE — TEMPORARY CONSTRUCTION EASEMENT
- PE — PERPETUAL EASEMENT
- PROPOSED RETAINING WALL
- PROPOSED UTILITY POLE
- PROPOSED ASPHALT PATH/TRAIL-IMPERVIOUS
- PROPOSED ASPHALT PATH/TRAIL - PERVIOUS
- PROPOSED DRIVEWAY ASPHALT PAVEMENT
- PROPOSED PAVEMENT REMOVAL
- PROPOSED RIP-RAP SLOPE STABILIZATION
- PROPOSED CONCRETE SIDEWALK
- PROPOSED LIGHT POLE

NOTES:

1. ALL UTILITY CONFLICTS AND RELOCATIONS WILL REQUIRE COORDINATION WITH THE APPROPRIATE UTILITY COMPANIES.
2. PROPOSED IMPROVEMENTS AT MD 108 INTERSECTION WILL NOT IMPACT EXISTING SIGNAL EQUIPMENT.

90% DESIGN
NOT FOR CONSTRUCTION

NO.	REVISION	DATE	BY

MONTGOMERY COUNTY
DEPARTMENT OF TRANSPORTATION
GAITHERSBURG, MARYLAND

RECOMMENDED FOR APPROVAL

Chief, Design Section — Date

APPROVED

Chief, Division of Transportation Engineering — Date

Designed by: ADH Drawn by: TMB Checked by: JJR

PS-23
ROADWAY PLAN
BOWIE MILL ROAD BIKEWAY

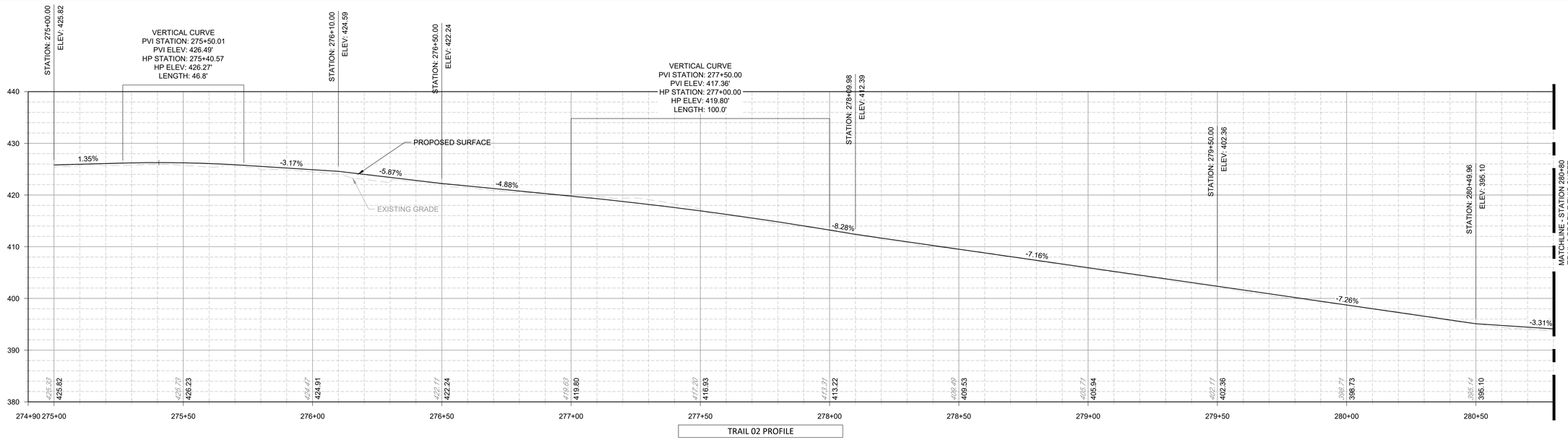
M-NCPPC PERMIT NO. MR2023016 SHA TRACKING NO. 24APMO039XX

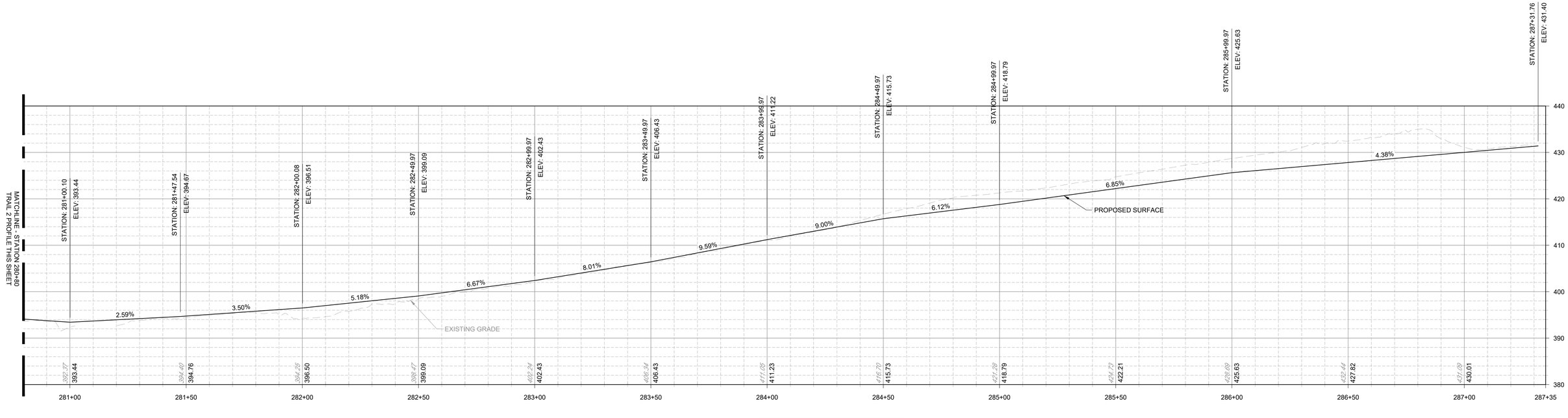
0 30' 60'

SCALE: 1"=30' DATE: APRIL 2025

Project No. : 502108 Sheet 64 of 393

FILE NAME: C:\pwworking\jmt\d0642115\pHD_Bowie Mill Road.dwg LAYOUT NAME: PS-23 PLOTTED: Monday, April 07, 2025 - 2:28pm USER: AHavener





90% DESIGN
NOT FOR CONSTRUCTION

NOTES:
1. FOR PLAN VIEW SEE SHEETS PS-01 AND PS-02.
2. FOR TRAIL 01 SEE PROFILE SHEET PR-02.

NO.	REVISION	DATE	BY

MONTGOMERY COUNTY
DEPARTMENT OF TRANSPORTATION
GAITHERSBURG, MARYLAND

RECOMMENDED FOR APPROVAL

Chief, Design Section — Date

APPROVED

Chief, Division of Transportation Engineering — Date

Designed by: ADH Drawn by: TMB Checked by: JJR

PR-01
TRAIL PROFILES
BOWIE MILL ROAD BIKEWAY

M-NCPPC PERMIT NO. MR2023016 SHA TRACKING NO. 24APMO039XX

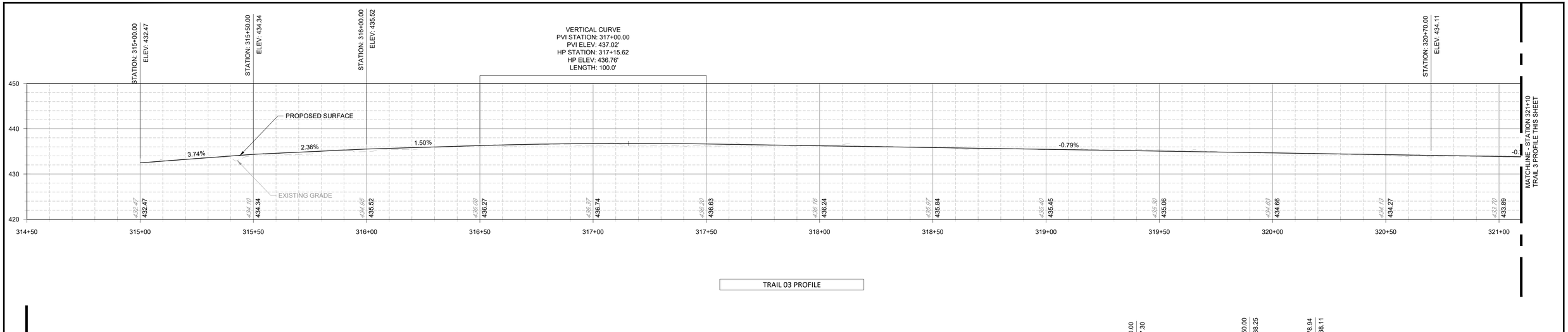
0 20' 40'
SCALE: 1"=20'

DATE: APRIL 2025

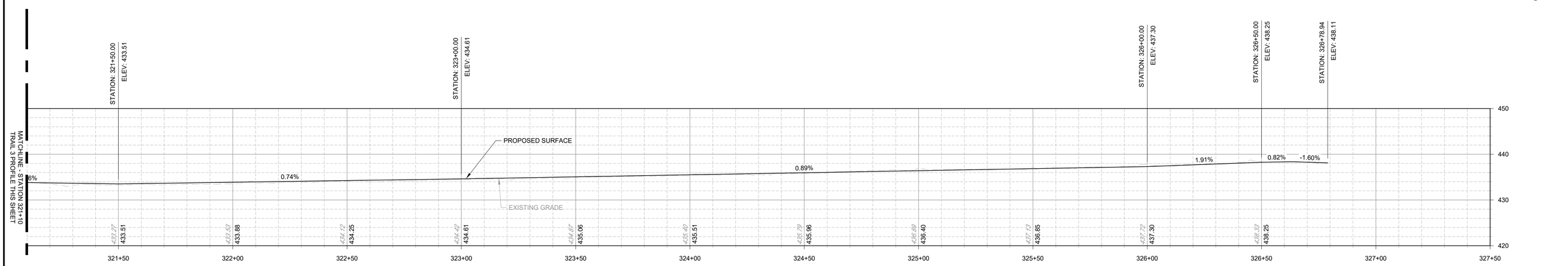
Project No. : 502108

Sheet 65 of 393

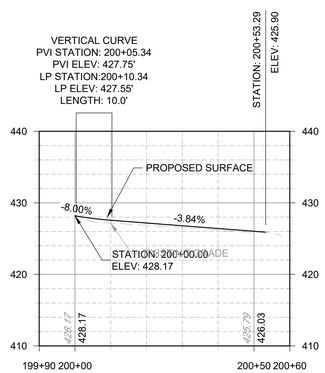
FILE NAME: C:\pwworking\jmt\d0642115\pHD_Bowie Mill Road_Trail Profiles.dwg LAYOUT NAME: PR-01 PLOTTED: Monday, April 07, 2025 - 2:28pm USER: AHavener



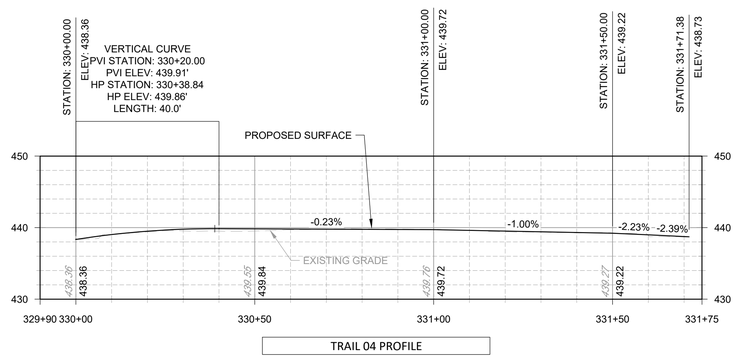
TRAIL 03 PROFILE



TRAIL 03 PROFILE



TRAIL 01 PROFILE



TRAIL 04 PROFILE

NOTES:
1. FOR PLAN VIEW SEE SHEETS PS-02, PS-03 AND PS-04.

90% DESIGN
NOT FOR CONSTRUCTION

NO.	REVISION	DATE	BY

MONTGOMERY COUNTY
DEPARTMENT OF TRANSPORTATION
GAITHERSBURG, MARYLAND

RECOMMENDED FOR APPROVAL

Chief, Design Section — Date

APPROVED

Chief, Division of Transportation Engineering — Date

Designed by: ADH Drawn by: TMB Checked by: JJR

PR-02
TRAIL PROFILES
BOWIE MILL ROAD BIKEWAY

M-NCPPC PERMIT NO. MR2023016 SHA TRACKING NO. 24APMO039XX

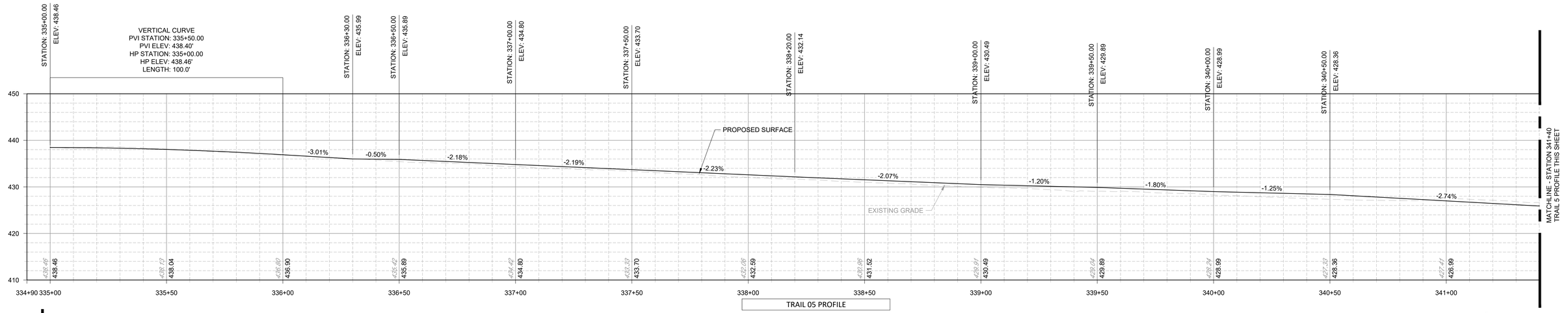
0 20' 40'
SCALE: 1"=20'

DATE: APRIL 2025

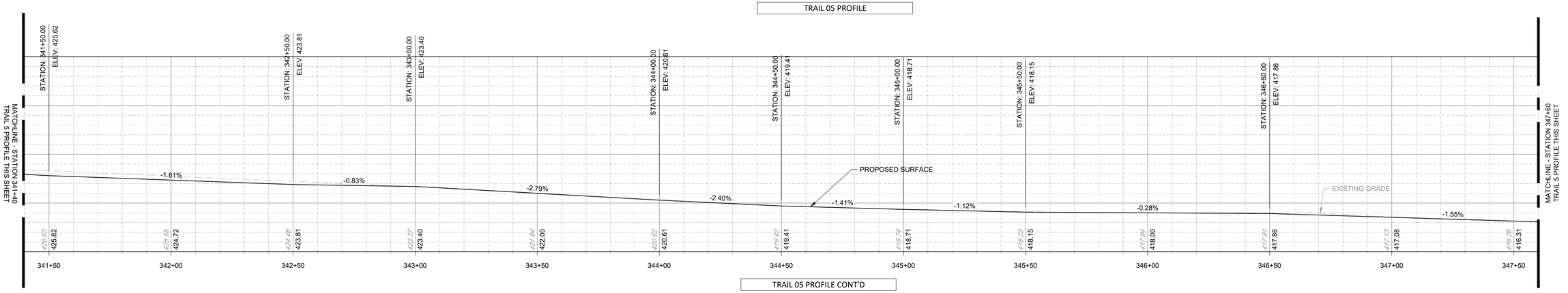
Project No. : 502108

Sheet 66 of 393

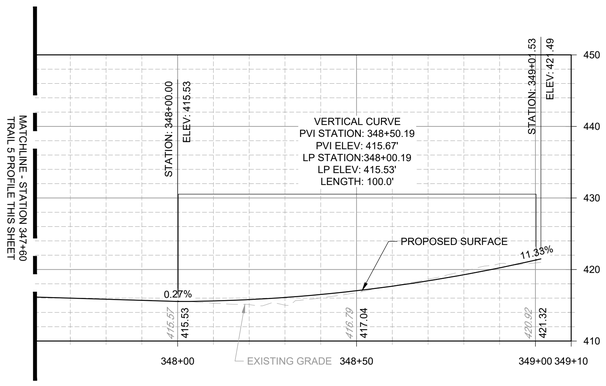
FILE NAME: C:\pwworking\jmt\d0642115\pHD_Bowie Mill Road_Trail Profiles.dwg LAYOUT NAME: PR-02 PLOTTED: Monday, April 07, 2025 - 2:28pm USER: AHavener



TRAIL 05 PROFILE



TRAIL 05 PROFILE CONT'D



TRAIL 05 PROFILE CONT'D

NOTES:
1. FOR PLAN VIEW SEE SHEETS PS-04, PS-05 AND PS-06.

90% DESIGN
NOT FOR CONSTRUCTION

NO.	REVISION	DATE	BY

MONTGOMERY COUNTY
DEPARTMENT OF TRANSPORTATION
GAITHERSBURG, MARYLAND

RECOMMENDED FOR APPROVAL

Chief, Design Section — Date

APPROVED

Chief, Division of Transportation Engineering — Date

Designed by: ADH Drawn by: TMB Checked by: JJR

PR-03
TRAIL PROFILES
BOWIE MILL ROAD BIKEWAY

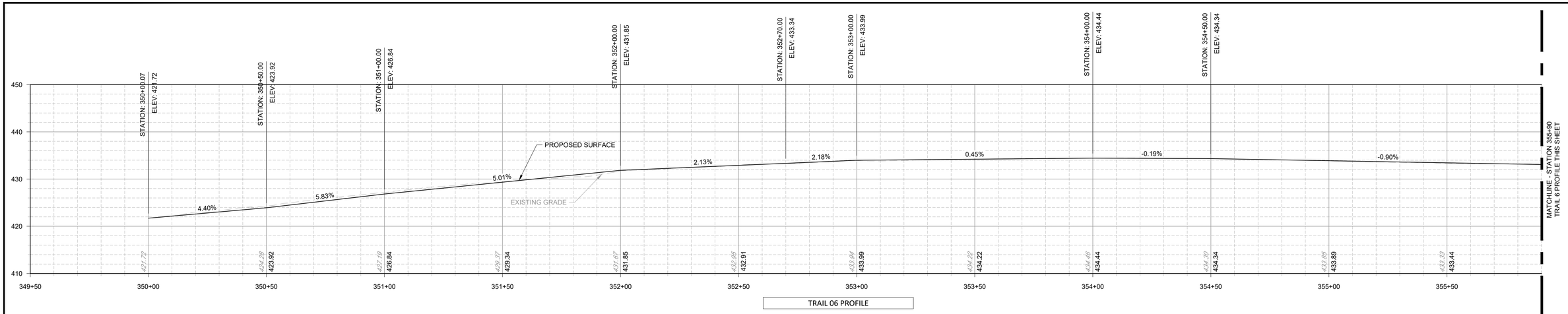
M-NCPPC PERMIT NO. MR2023016 SHA TRACKING NO. 24APMO039XX

0 20' 40'
SCALE: 1"=20'

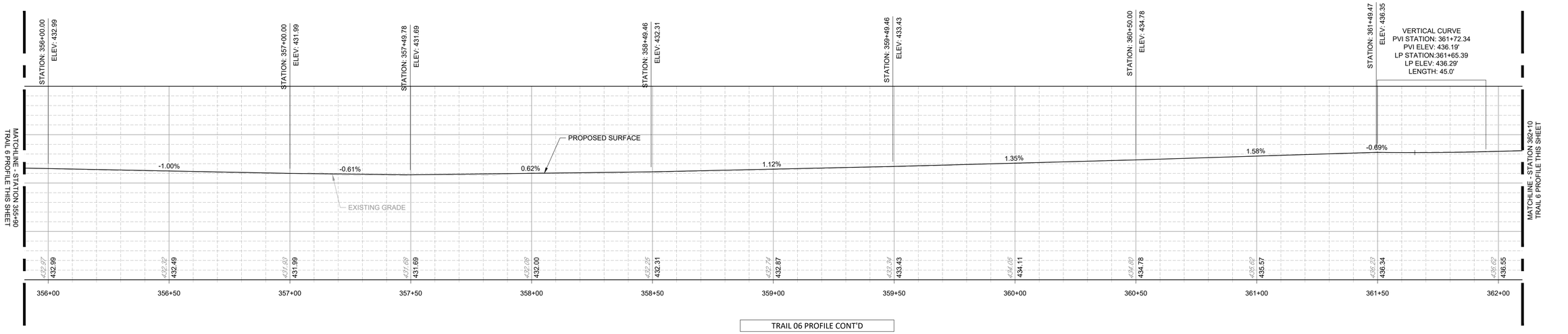
DATE: APRIL 2025

Project No. : 502108 Sheet 67 of 393

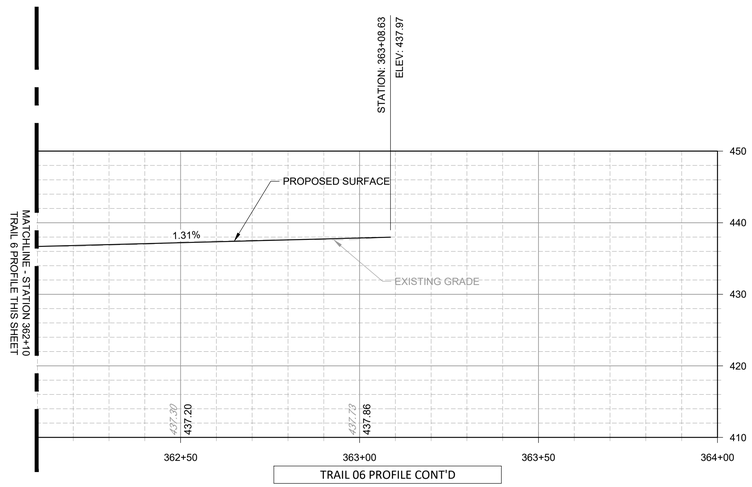
FILE NAME: C:\pwworking\jmt\d0642115\pHD_Bowie Mill Road_Trail Profiles.dwg LAYOUT NAME: PR-03 PLOTTED: Monday, April 07, 2025 - 2:28pm USER: AHavener



TRAIL 06 PROFILE



TRAIL 06 PROFILE CONT'D



TRAIL 06 PROFILE CONT'D

NOTES:
1. FOR PLAN VIEW SEE SHEETS PS-06 AND PS-07.

90% DESIGN
NOT FOR CONSTRUCTION

NO.	REVISION	DATE	BY

MONTGOMERY COUNTY
DEPARTMENT OF TRANSPORTATION
GAITHERSBURG, MARYLAND

RECOMMENDED FOR APPROVAL

Chief, Design Section — Date

APPROVED

Chief, Division of Transportation Engineering — Date

Designed by: ADH Drawn by: TMB Checked by: JJR

PR-04
TRAIL PROFILES
BOWIE MILL ROAD
BIKEWAY

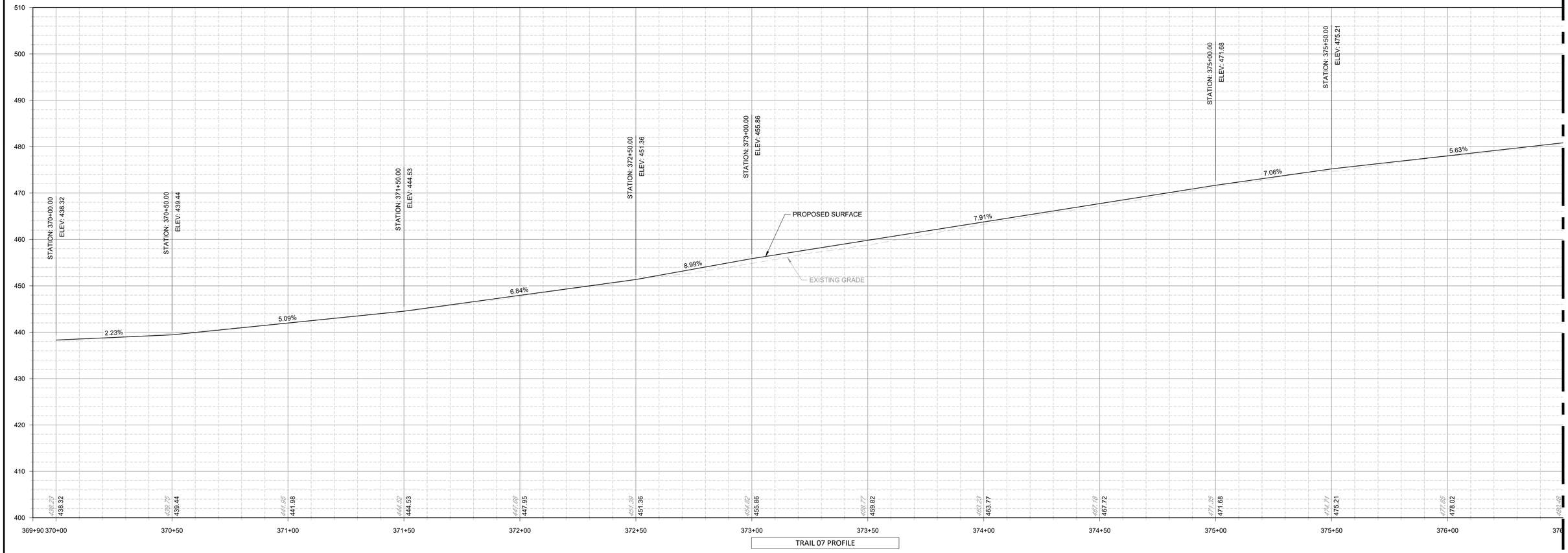
M-NCPPC PERMIT NO. MR2023016 SHA TRACKING NO. 24APMO039XX

0 20' 40'
SCALE: 1"=20'

DATE: APRIL 2025

Project No. : 502108 Sheet 68 of 393

FILE NAME: C:\pwworking\jmt\d0642115\pHD_Bowie Mill Road_Trail Profiles.dwg LAYOUT NAME: PR-04 PLOTTED: Monday, April 07, 2025 - 2:29pm USER: AHavener



TRAIL 07 PROFILE

MATCHLINE - STATION 376+50
TRAIL 7 PROFILE SEE SHEET NO. PR-06

NOTES:
1. FOR PLAN VIEW SEE SHEETS PS-07 AND PS-08.

90% DESIGN
NOT FOR CONSTRUCTION

NO.	REVISION	DATE	BY

MONTGOMERY COUNTY
DEPARTMENT OF TRANSPORTATION
GAITHERSBURG, MARYLAND

RECOMMENDED FOR APPROVAL

Chief, Design Section — Date

APPROVED

Chief, Division of Transportation Engineering — Date

Designed by: ADH Drawn by: TMB Checked by: JJR

PR-05
TRAIL PROFILES
BOWIE MILL ROAD BIKEWAY

M-NCPPC PERMIT NO. MR2023016 SHA TRACKING NO. 24APMO039XX

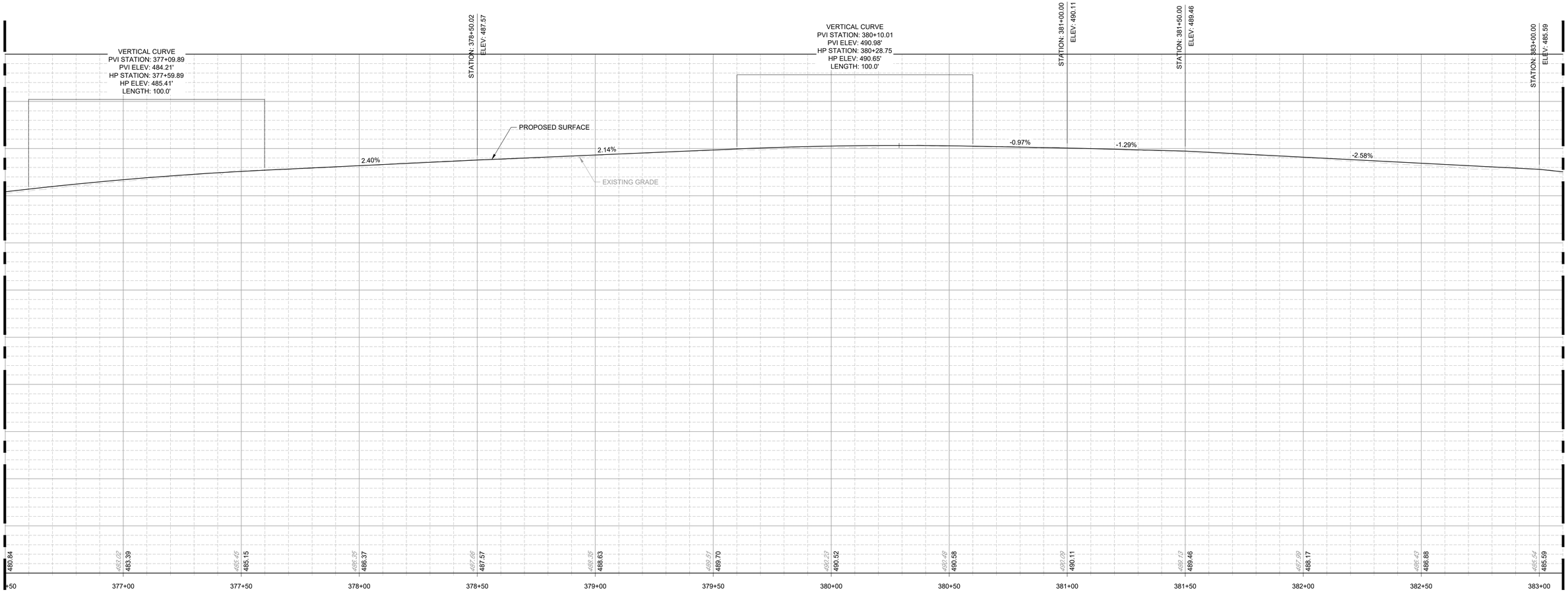
0 20' 40'
SCALE: 1"=20'

DATE: APRIL 2025

Project No. : 502108

Sheet 69 of 393

FILE NAME: C:\pwworking\jmt\d0642115\pHD_Bowie Mill Road_Trail Profiles.dwg LAYOUT NAME: PR-05 PLOTTED: Monday, April 07, 2025 - 2:29pm USER: AHavener



MATCHLINE - STATION 376+50
TRAIL 7 PROFILE SEE SHEET NO. PR-05

MATCHLINE - STATION 383+10
TRAIL 7 PROFILE SEE SHEET NO. PR-07

TRAIL 07 PROFILE CONT'D

NOTES:
1. FOR PLAN VIEW SEE SHEETS PS-08 AND PS-09.

90% DESIGN
NOT FOR CONSTRUCTION

NO.	REVISION	DATE	BY

MONTGOMERY COUNTY
DEPARTMENT OF TRANSPORTATION
GAITHERSBURG, MARYLAND

RECOMMENDED FOR APPROVAL

Chief, Design Section — Date

APPROVED

Chief, Division of Transportation Engineering — Date

Designed by: ADH Drawn by: TMB Checked by: JJR

PR-06
TRAIL PROFILES
BOWIE MILL ROAD
BIKEWAY

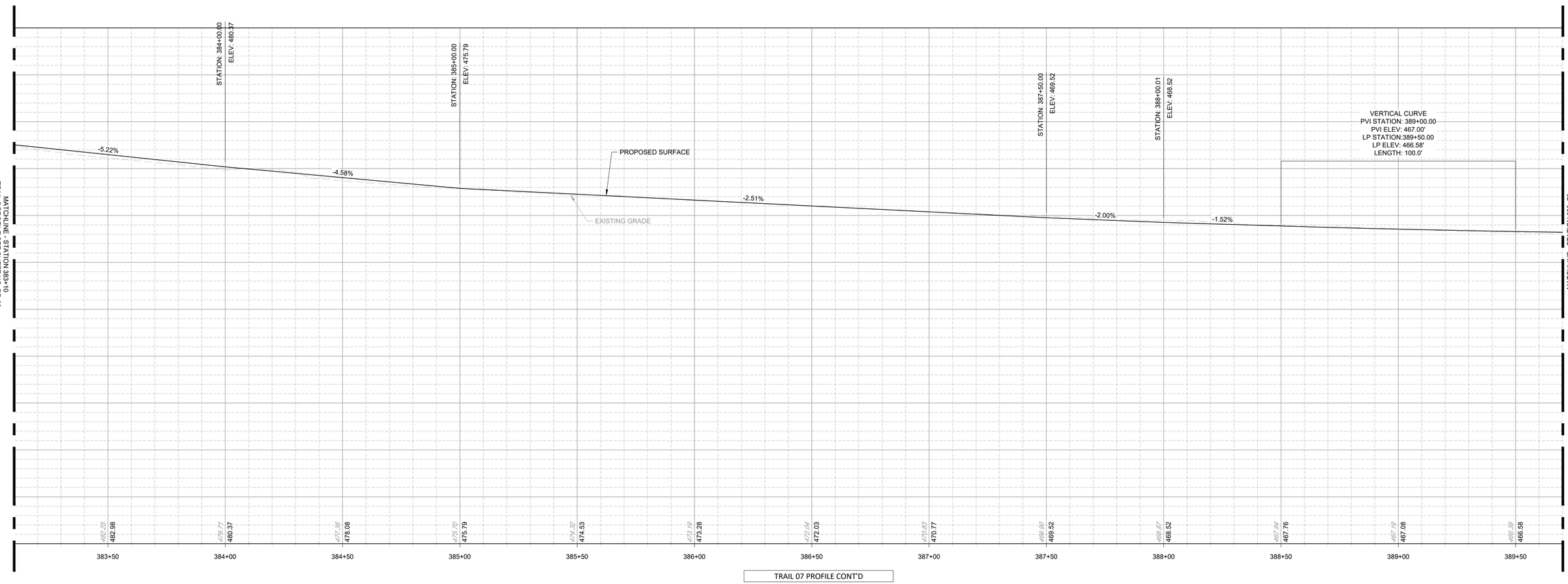
M-NCPPC PERMIT NO. MR2023016 SHA TRACKING NO. 24APMO039XX

0 20' 40'
SCALE: 1"=20'

DATE: APRIL 2025

Project No. : 502108 Sheet 70 of 393

FILE NAME: C:\pwworking\jmf\d0642115\pHD_Bowie Mill Road_Trail Profiles.dwg LAYOUT NAME: PR-06 PLOTTED: Monday, April 07, 2025 - 2:29pm USER: AHavener



TRAIL 07 PROFILE CONT'D

NOTES:
1. FOR PLAN VIEW SEE SHEETS PS-09 AND PS-10.

90% DESIGN
NOT FOR CONSTRUCTION

NO.	REVISION	DATE	BY

MONTGOMERY COUNTY
DEPARTMENT OF TRANSPORTATION
GAITHERSBURG, MARYLAND

RECOMMENDED FOR APPROVAL

Chief, Design Section — Date

APPROVED

Chief, Division of Transportation Engineering — Date

Designed by: ADH Drawn by: TMB Checked by: JJR

PR-07
TRAIL PROFILES
BOWIE MILL ROAD
BIKEWAY

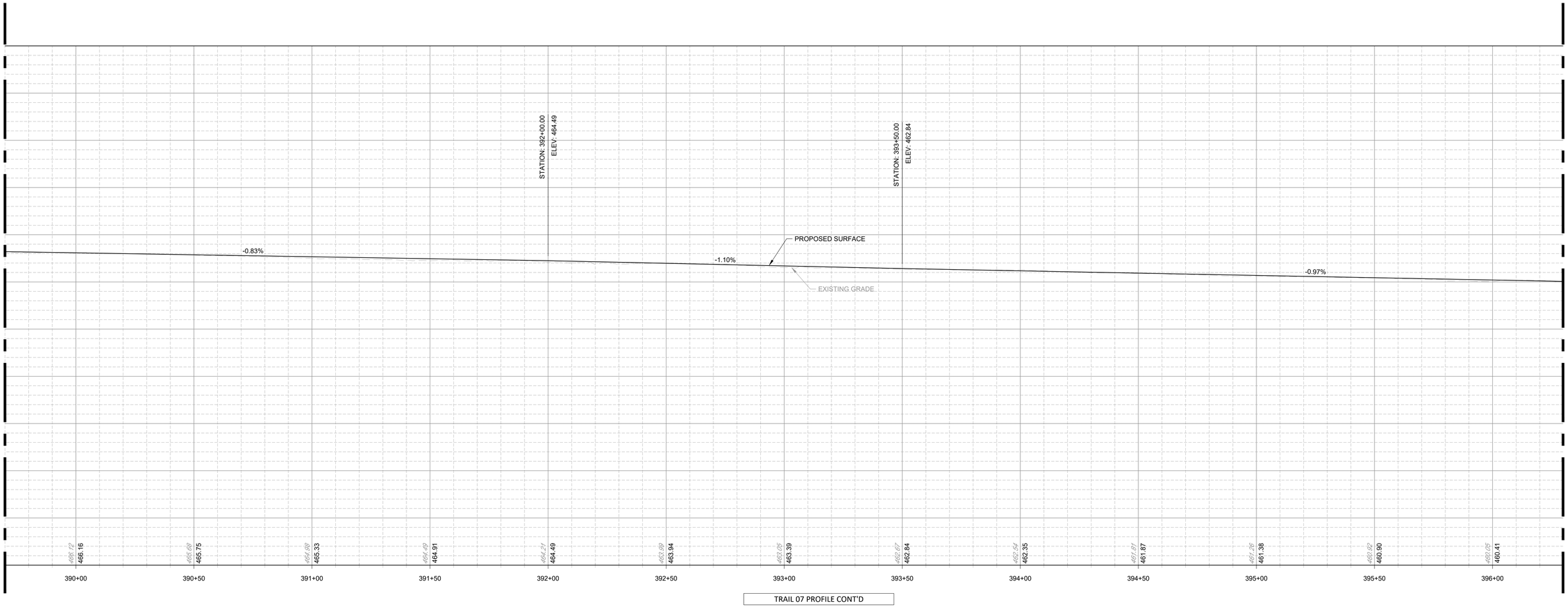
M-NCPPC PERMIT NO. MR2023016 SHA TRACKING NO. 24APMO039XX

0 20' 40'
SCALE: 1"=20'

DATE: APRIL 2025

Project No. : 502108 Sheet 71 of 393

FILE NAME: C:\pwworking\jmt\d0642115\pHD_Bowie Mill Road_Trail Profiles.dwg LAYOUT NAME: PR-07 PLOTTED: Monday, April 07, 2025 - 2:29pm USER: AHavener



TRAIL 07 PROFILE CONT'D

NOTES:
1. FOR PLAN VIEW SEE SHEETS PS-10 AND PS-11.

90% DESIGN
NOT FOR CONSTRUCTION

NO.	REVISION	DATE	BY

MONTGOMERY COUNTY
DEPARTMENT OF TRANSPORTATION
GAITHERSBURG, MARYLAND

RECOMMENDED FOR APPROVAL

Chief, Design Section — Date

APPROVED

Chief, Division of Transportation Engineering — Date

Designed by: ADH Drawn by: TMB Checked by: JJR

PR-08
TRAIL PROFILES
BOWIE MILL ROAD
BIKEWAY

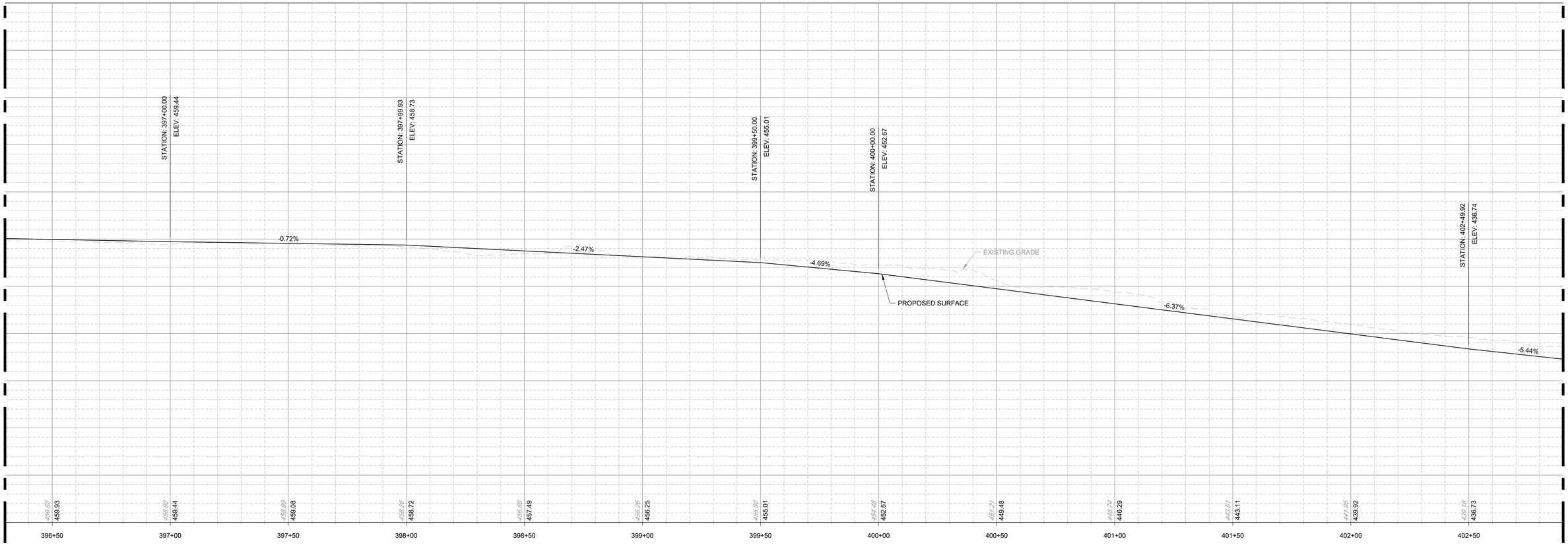
M-NCPPC PERMIT NO. MR2023016 SHA TRACKING NO. 24APMO039XX

0 20' 40'
SCALE: 1"=20'

DATE: APRIL 2025

Project No. : 502108 Sheet 72 of 393

FILE NAME: C:\pwworking\jmt\d0642115\pHD_Bowie Mill Road_Trail Profiles.dwg LAYOUT NAME: PR-08 PLOTTED: Monday, April 07, 2025 - 2:29pm USER: AHavener



TRAIL 07 PROFILE CONT'D

NOTES:
1. FOR PLAN VIEW SEE SHEET PS-11.

90% DESIGN
NOT FOR CONSTRUCTION

NO.	REVISION	DATE	BY

MONTGOMERY COUNTY
DEPARTMENT OF TRANSPORTATION
GAITHERSBURG, MARYLAND

RECOMMENDED FOR APPROVAL

Chief, Design Section — Date

APPROVED

Chief, Division of Transportation Engineering — Date

Designed by: ADH Drawn by: TMB Checked by: JJR

PR-09
TRAIL PROFILES
BOWIE MILL ROAD
BIKEWAY

M-NCPPC PERMIT NO. MR2023016 SHA TRACKING NO. 24APMO039XX

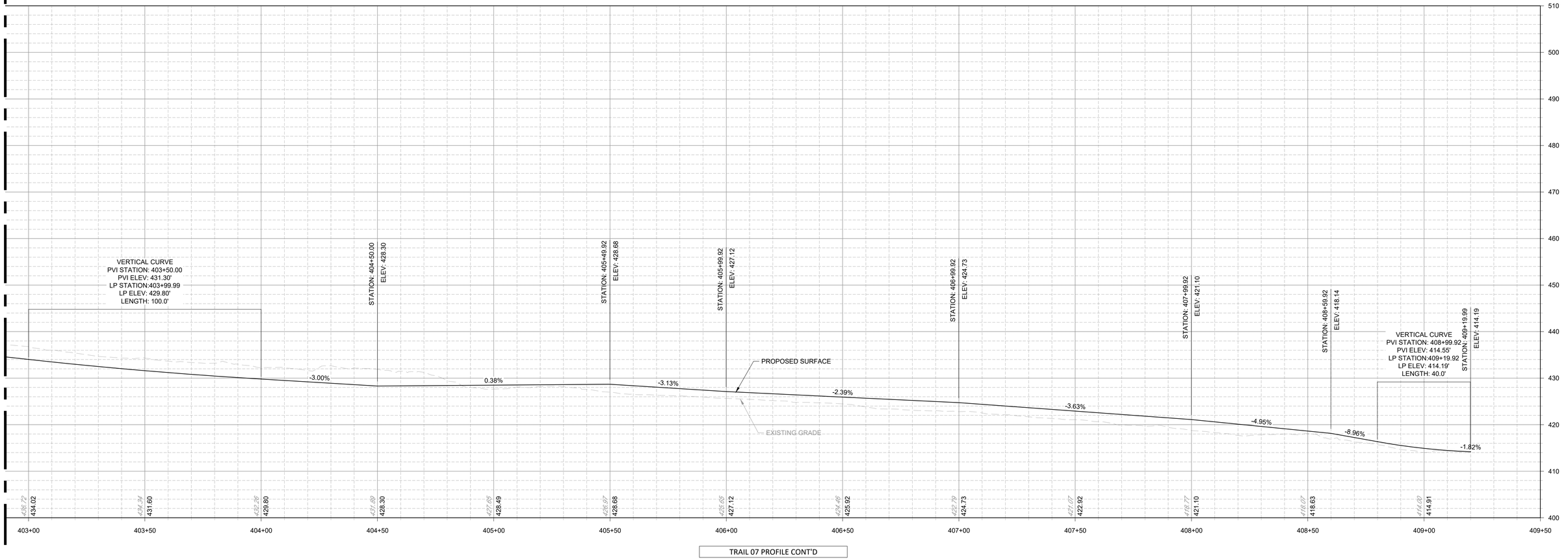
0 20' 40'
SCALE: 1"=20'

DATE: APRIL 2025

Project No. : 502108

Sheet 73 of 393

FILE NAME: C:\pwworking\jmt\d0642115\pHD_Bowie Mill Road_Trail Profiles.dwg LAYOUT NAME: PR-09 PLOTTED: Monday, April 07, 2025 - 2:29pm USER: AHavener



TRAIL 07 PROFILE CONT'D

NOTES:
1. FOR PLAN VIEW SEE SHEET PS-12.

90% DESIGN
NOT FOR CONSTRUCTION

NO.	REVISION	DATE	BY

MONTGOMERY COUNTY
DEPARTMENT OF TRANSPORTATION
GAITHERSBURG, MARYLAND

RECOMMENDED FOR APPROVAL

Chief, Design Section — Date

APPROVED

Chief, Division of Transportation Engineering — Date

Designed by: ADH Drawn by: TMB Checked by: JJR

PR-10
TRAIL PROFILES
BOWIE MILL ROAD
BIKEWAY

M-NCPPC PERMIT NO. MR2023016 SHA TRACKING NO. 24APMO039XX

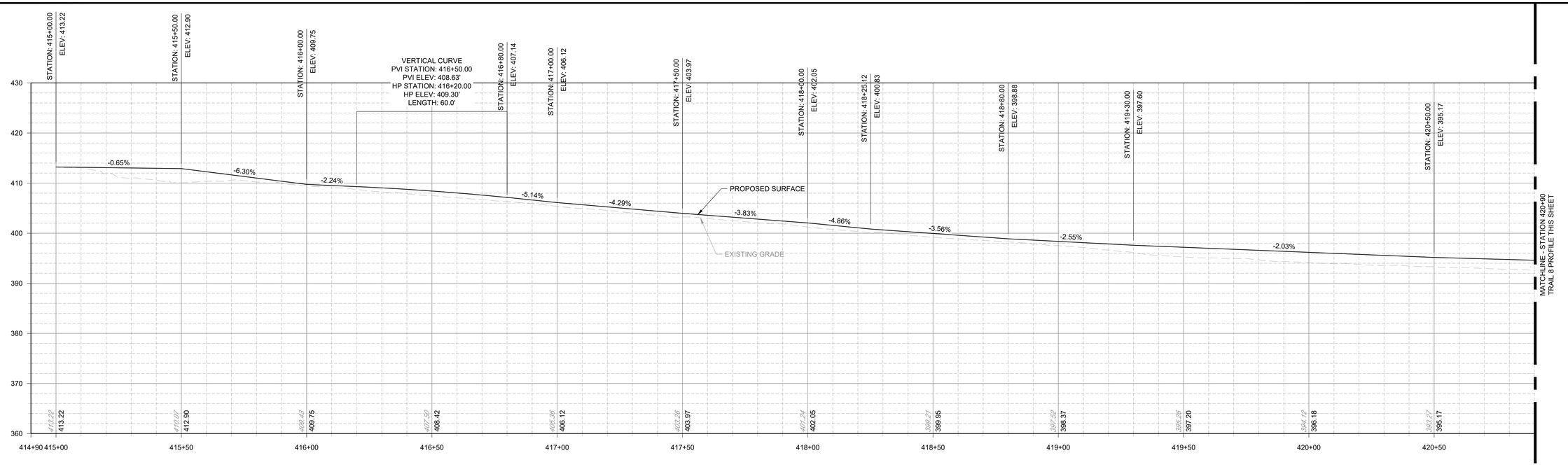
0 20' 40'
SCALE: 1"=20'

DATE: APRIL 2025

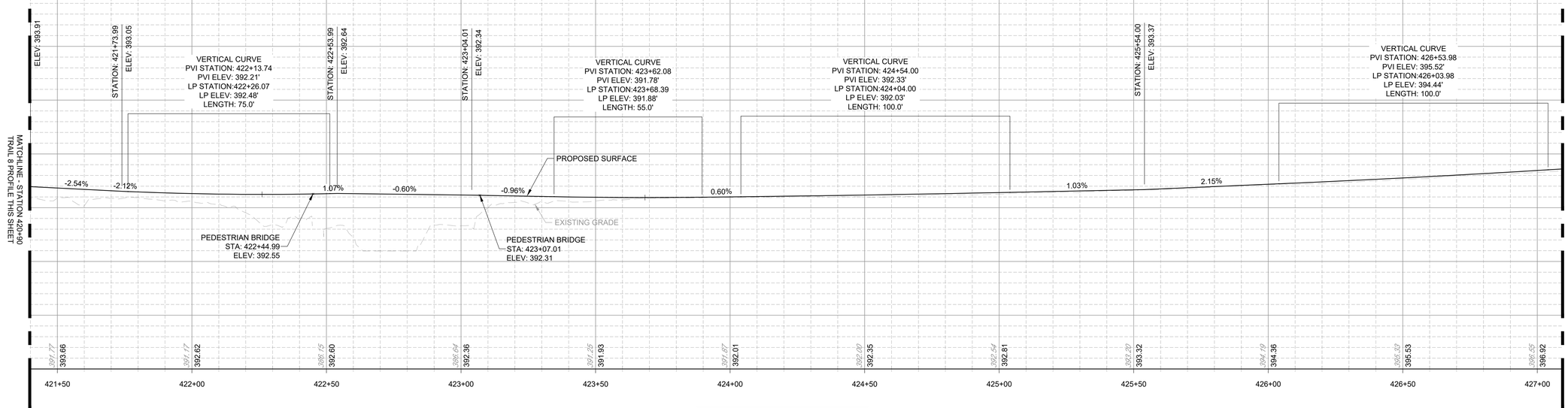
Project No. : 502108

Sheet 74 of 393

FILE NAME: C:\pwworking\jmf\d0642115\pHD_Bowie Mill Road_Trail Profiles.dwg LAYOUT NAME: PR-10 PLOTTED: Monday, April 07, 2025 - 2:29pm USER: AHavener



TRAIL 08 PROFILE



TRAIL 08 PROFILE CONT'D

NOTES:
1. FOR PLAN VIEW SEE SHEETS PS-12, PS-13 AND PS-14.

90% DESIGN
NOT FOR CONSTRUCTION

NO.	REVISION	DATE	BY

MONTGOMERY COUNTY
DEPARTMENT OF TRANSPORTATION
GAITHERSBURG, MARYLAND

RECOMMENDED FOR APPROVAL

Chief, Design Section — Date

APPROVED

Chief, Division of Transportation Engineering — Date

Designed by: ADH Drawn by: TMB Checked by: JJR

PR-11
TRAIL PROFILES
BOWIE MILL ROAD BIKEWAY

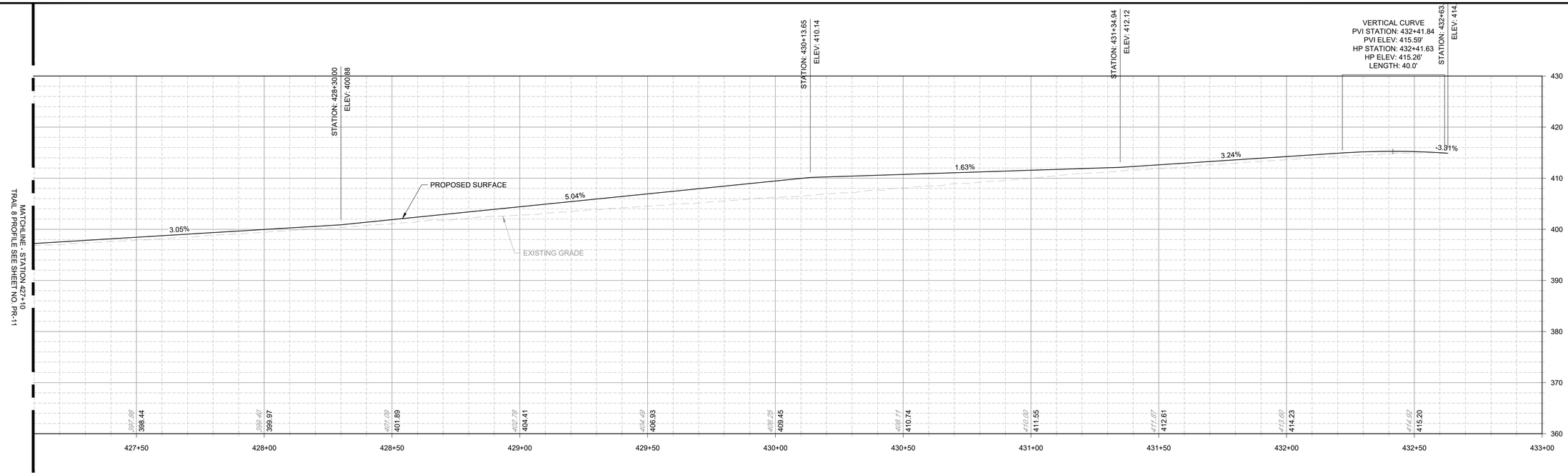
M-NCPPC PERMIT NO. MR2023016 SHA TRACKING NO. 24APMO039XX

0 20' 40'
SCALE: 1"=20'

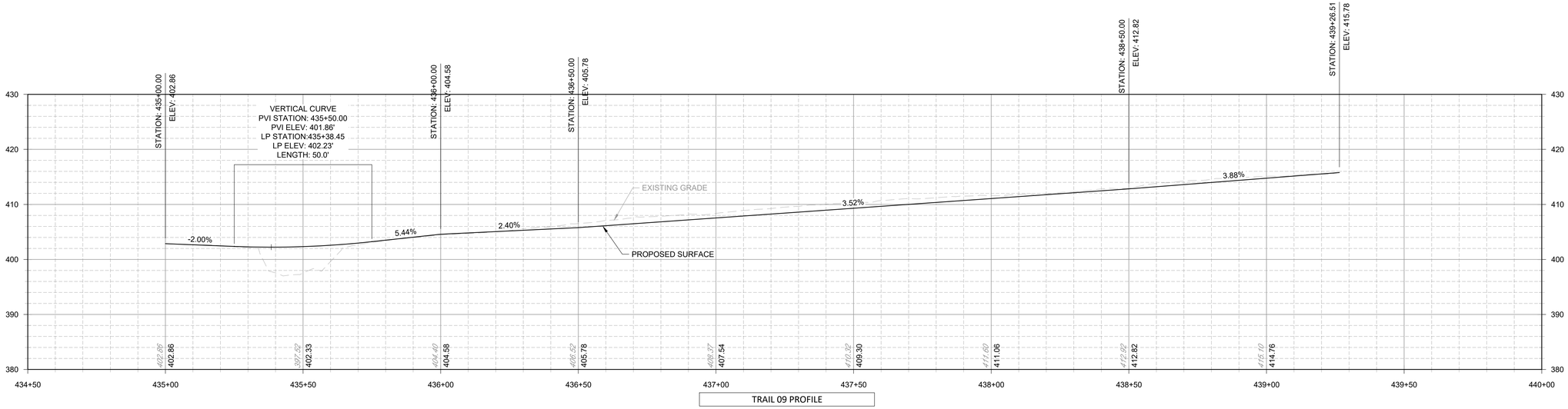
DATE: APRIL 2025

Project No. : 502108 Sheet 75 of 393

FILE NAME: C:\pwworking\jmt\d0642115\pHD_Bowie Mill Road_Trail Profiles.dwg LAYOUT NAME: PR-11 PLOTTED: Monday, April 07, 2025 - 2:29pm USER: AHavener



TRAIL 08 PROFILE CONT'D



TRAIL 09 PROFILE

NOTES:
1. FOR PLAN VIEW SEE SHEET PS-14.

90% DESIGN
NOT FOR CONSTRUCTION

NO.	REVISION	DATE	BY

MONTGOMERY COUNTY
DEPARTMENT OF TRANSPORTATION
GAITHERSBURG, MARYLAND

RECOMMENDED FOR APPROVAL

Chief, Design Section — Date

APPROVED

Chief, Division of Transportation Engineering — Date

Designed by: ADH Drawn by: TMB Checked by: JJR

PR-12
TRAIL PROFILES
BOWIE MILL ROAD BIKEWAY

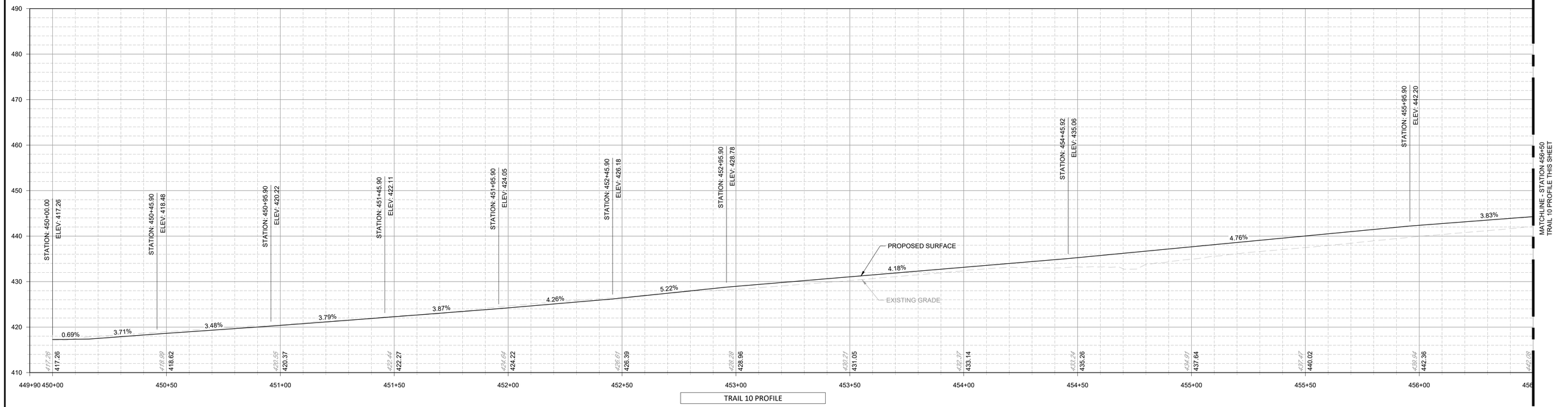
M-NCPPC PERMIT NO. MR2023016 SHA TRACKING NO. 24APMO039XX

0 20' 40'
SCALE: 1"=20'

DATE: APRIL 2025

Project No. : 502108 Sheet 76 of 393

FILE NAME: C:\pwworking\jmt\d0642115\pHD_Bowie Mill Road_Trail Profiles.dwg LAYOUT NAME: PR-12 PLOTTED: Monday, April 07, 2025 - 2:29pm USER: AHavener



90% DESIGN
NOT FOR CONSTRUCTION

NOTES:
1. FOR PLAN VIEW SEE SHEETS PS-14, PS-15, PS-16 AND PS-17.

NO.	REVISION	DATE	BY

MONTGOMERY COUNTY
DEPARTMENT OF TRANSPORTATION
GAITHERSBURG, MARYLAND

RECOMMENDED FOR APPROVAL

Chief, Design Section — Date

APPROVED

Chief, Division of Transportation Engineering — Date

Designed by: ADH Drawn by: TMB Checked by: JJR

PR-13
TRAIL PROFILES
BOWIE MILL ROAD BIKEWAY

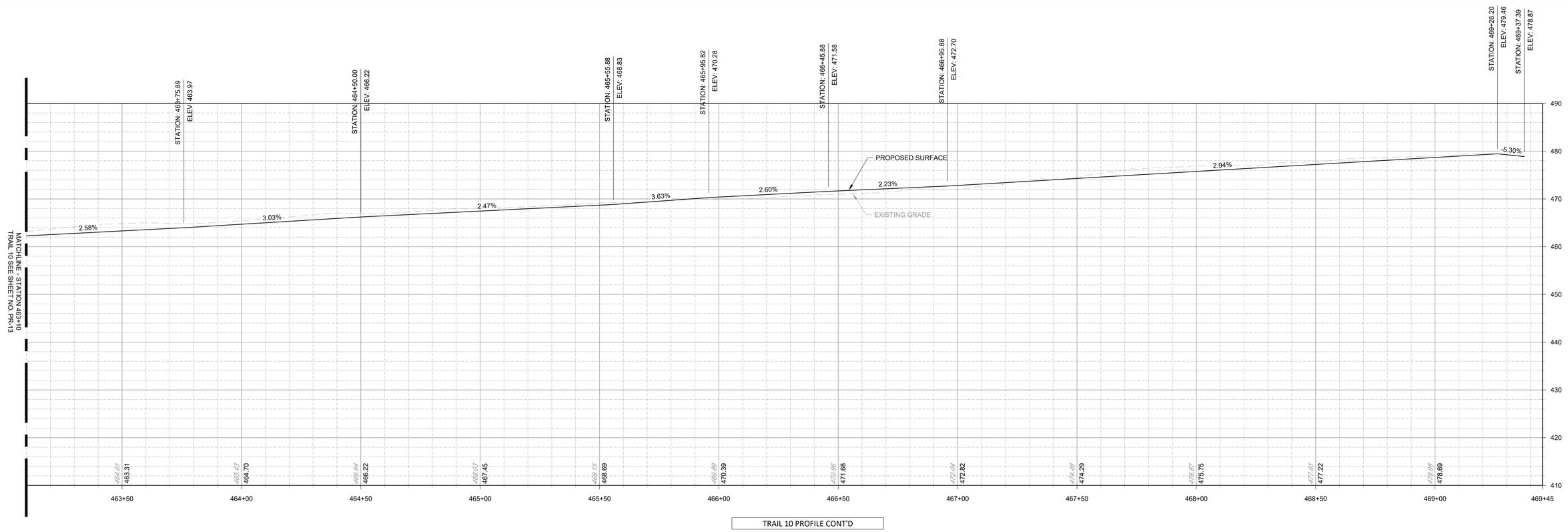
M-NCPPC PERMIT NO. MR2023016 SHA TRACKING NO. 24APMO039XX

0 20' 40'
SCALE: 1"=20'

DATE: APRIL 2025

Project No. : 502108 Sheet 77 of 393

FILE NAME: C:\pwworking\jmt\d0642115\pHD_Bowie Mill Road_Trail Profiles.dwg LAYOUT NAME: PR-13 PLOTTED: Monday, April 07, 2025 - 2:29pm USER: AHavener



TRAIL 10 PROFILE CONT'D

NOTES:
1. FOR PLAN VIEW SEE SHEETS PS-17 AND PS-18.

90% DESIGN
NOT FOR CONSTRUCTION

NO.	REVISION	DATE	BY

MONTGOMERY COUNTY
DEPARTMENT OF TRANSPORTATION
GAITHERSBURG, MARYLAND

RECOMMENDED FOR APPROVAL

Chief, Design Section — Date

APPROVED

Chief, Division of Transportation Engineering — Date

Designed by: ADH Drawn by: TMB Checked by: JJR

PR-14
TRAIL PROFILES
BOWIE MILL ROAD BIKEWAY

M-NCPPC PERMIT NO. MR2023016 SHA TRACKING NO. 24APMO039XX

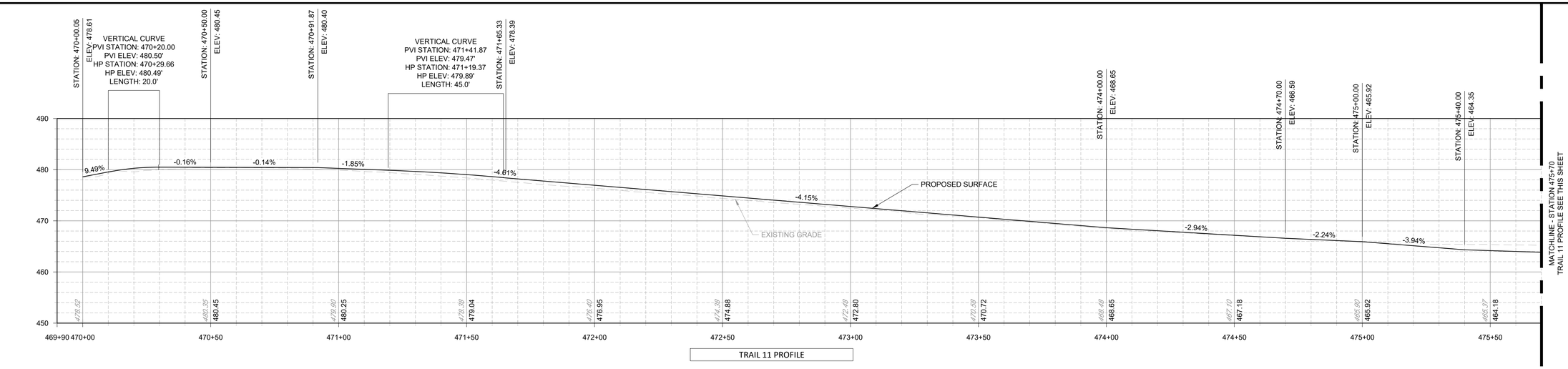
0 20' 40'
SCALE: 1"=20'

DATE: APRIL 2025

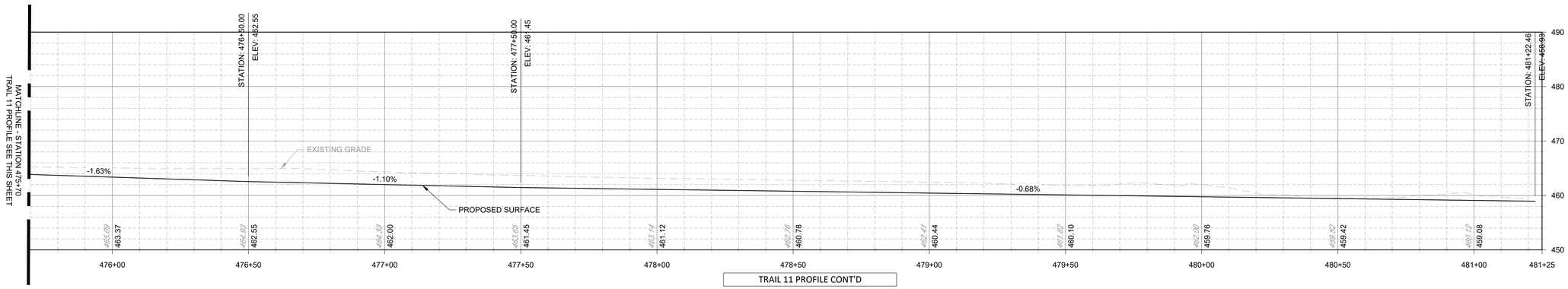
Project No. : 502108

Sheet 78 of 393

FILE NAME: C:\pwworking\jmtd0642115\pHD_Bowie Mill Road_Trail Profiles.dwg LAYOUT NAME: PR-14 PLOTTED: Monday, April 07, 2025 - 2:29pm USER: AHavener



TRAIL 11 PROFILE



TRAIL 11 PROFILE CONT'D

NOTES:
1. FOR PLAN VIEW SEE SHEETS PS-18 AND PS-19.

90% DESIGN
NOT FOR CONSTRUCTION

NO.	REVISION	DATE	BY

MONTGOMERY COUNTY
DEPARTMENT OF TRANSPORTATION
GAITHERSBURG, MARYLAND

RECOMMENDED FOR APPROVAL

Chief, Design Section — Date

APPROVED

Chief, Division of Transportation Engineering — Date

Designed by: ADH Drawn by: TMB Checked by: JJR

PR-15
TRAIL PROFILES
BOWIE MILL ROAD
BIKEWAY

M-NCPPC PERMIT NO. MR2023016 SHA TRACKING NO. 24APMO039XX

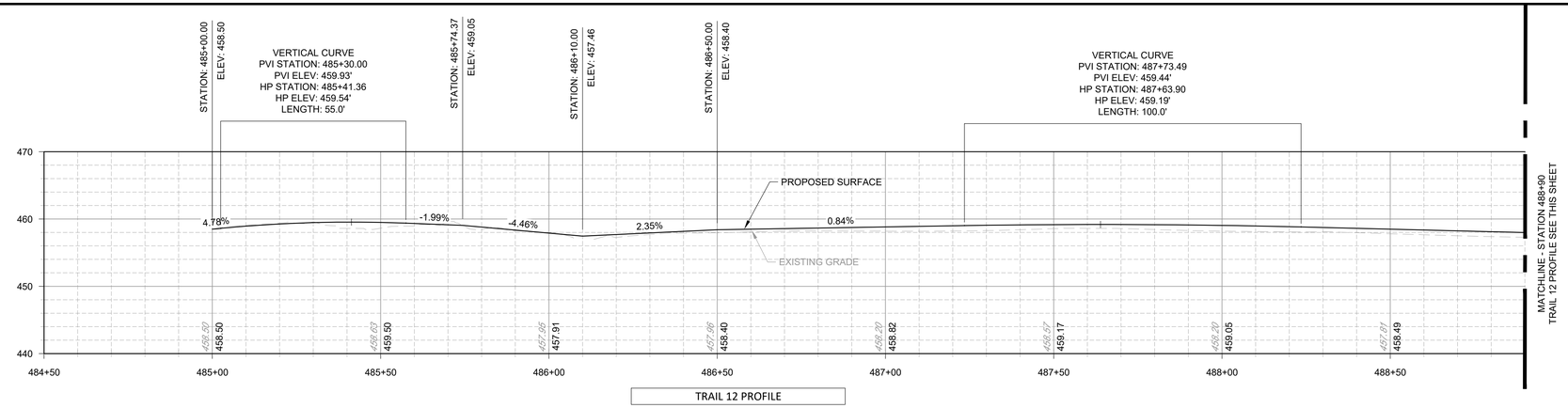
0 20' 40'
SCALE: 1"=20'

DATE: APRIL 2025

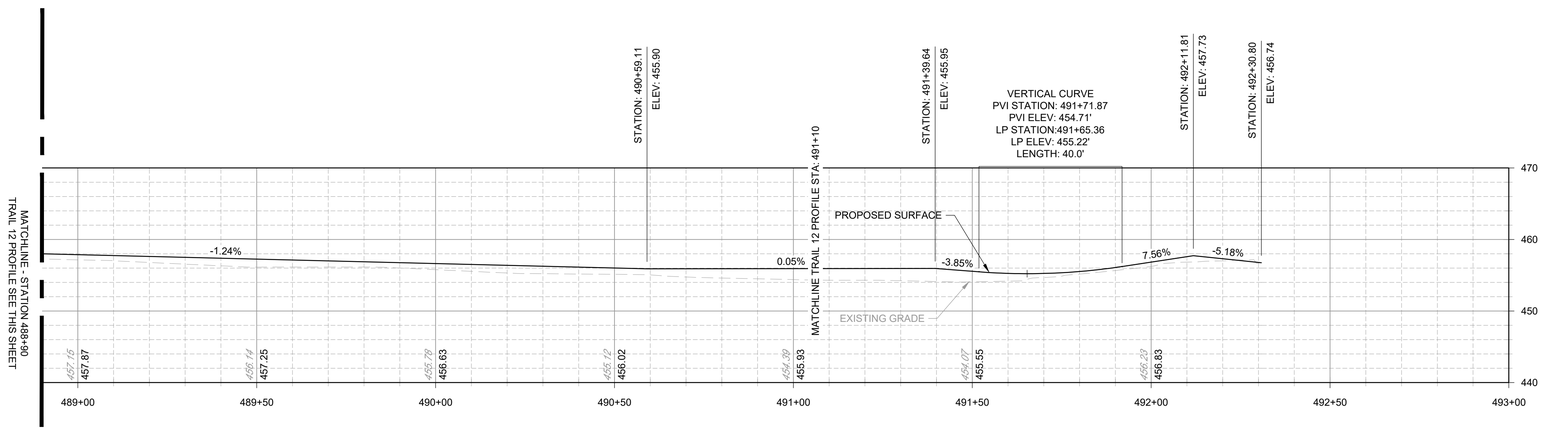
Project No. : 502108

Sheet 79 of 393

FILE NAME: C:\pwworking\jmf\d0642115\pHD_Bowie Mill Road_Trail Profiles.dwg LAYOUT NAME: PR-15 PLOTTED: Monday, April 07, 2025 - 2:29pm USER: AHavener



TRAIL 12 PROFILE



TRAIL 12 PROFILE CONT'D

NOTES:
1. FOR PLAN VIEW SEE SHEETS PS-19, PS-20 AND PS-21.

90% DESIGN
NOT FOR CONSTRUCTION

NO.	REVISION	DATE	BY

MONTGOMERY COUNTY
DEPARTMENT OF TRANSPORTATION
GAITHERSBURG, MARYLAND

RECOMMENDED FOR APPROVAL

Chief, Design Section — Date

APPROVED

Chief, Division of Transportation Engineering — Date

Designed by: ADH Drawn by: TMB Checked by: JJR

PR-16
TRAIL PROFILES
BOWIE MILL ROAD
BIKEWAY

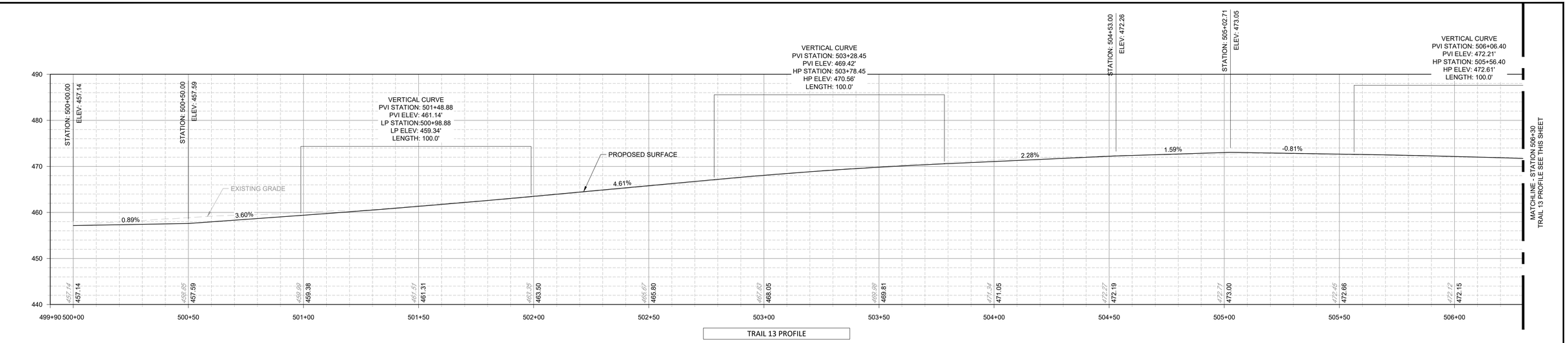
M-NCPPC PERMIT NO. MR2023016 SHA TRACKING NO. 24APMO039XX

0 20' 40'
SCALE: 1"=20'

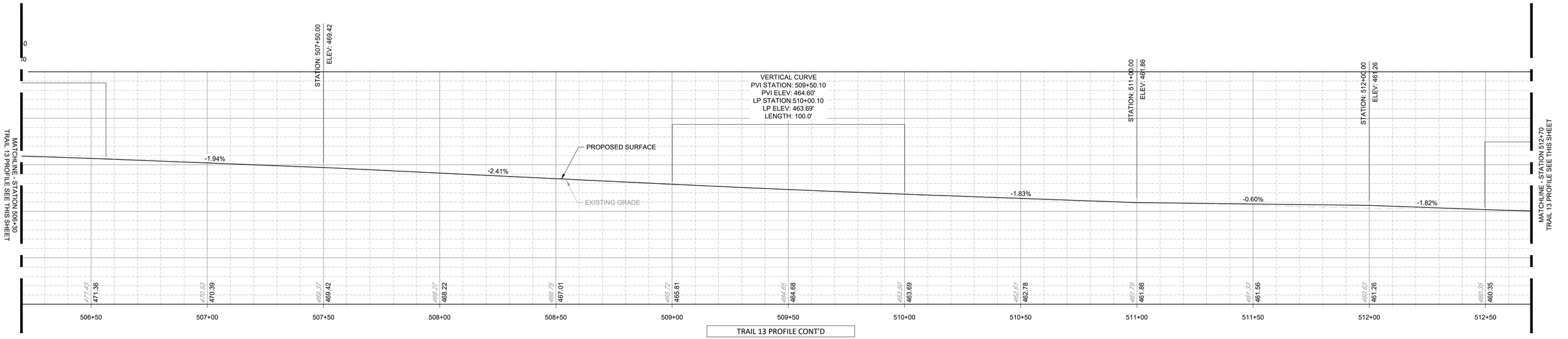
DATE: APRIL 2025

Project No. : 502108 Sheet 80 of 393

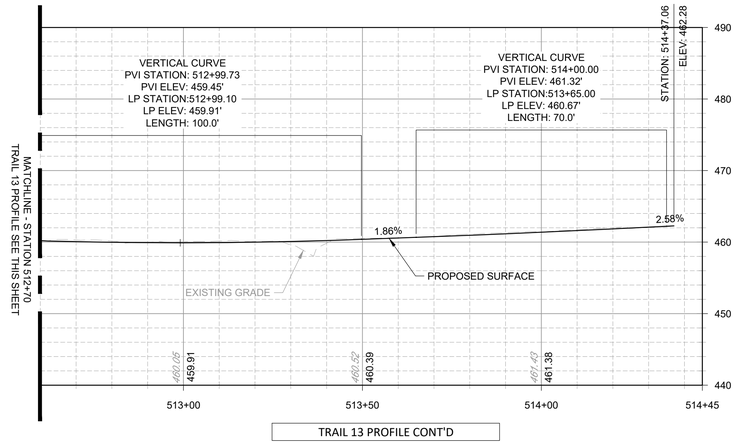
FILE NAME: C:\pwworking\jmt\d0642115\pHD_Bowie Mill Road_Trail Profiles.dwg LAYOUT NAME: PR-16 PLOTTED: Monday, April 07, 2025 - 2:29pm USER: AHavener



TRAIL 13 PROFILE



TRAIL 13 PROFILE CONT'D



TRAIL 13 PROFILE CONT'D

NOTES:
1. FOR PLAN VIEW SEE SHEETS PS-20 AND PS-21.

90% DESIGN
NOT FOR CONSTRUCTION

NO.	REVISION	DATE	BY

MONTGOMERY COUNTY
DEPARTMENT OF TRANSPORTATION
GAITHERSBURG, MARYLAND

RECOMMENDED FOR APPROVAL

Chief, Design Section — Date

APPROVED

Chief, Division of Transportation Engineering — Date

Designed by: ADH Drawn by: TMB Checked by: JJR

PR-17
TRAIL PROFILES
BOWIE MILL ROAD BIKEWAY

M-NCPPC PERMIT NO. MR2023016 SHA TRACKING NO. 24APMO039XX

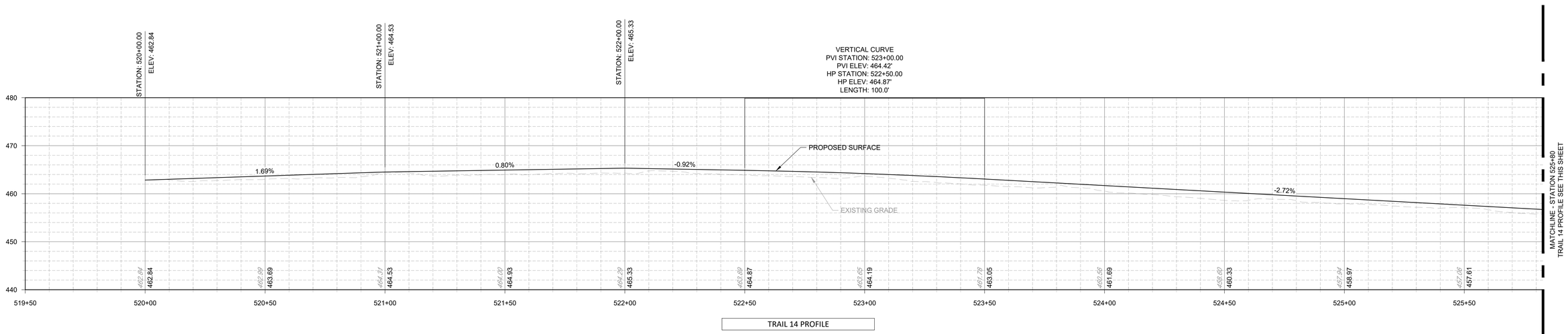
0 20' 40'
SCALE: 1"=20'

DATE: APRIL 2025

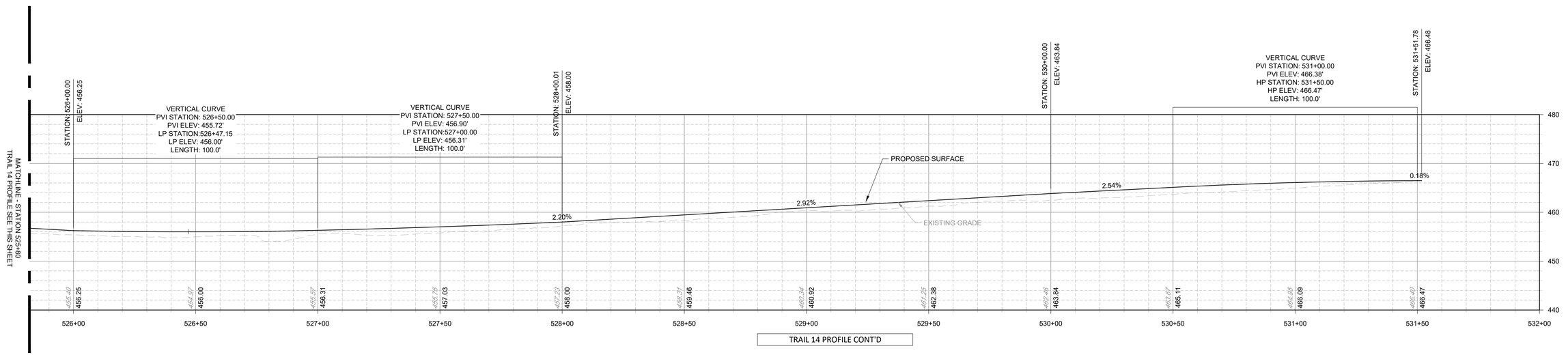
Project No. : 502108

Sheet 81 of 393

FILE NAME: C:\pwworking\jmt\d0642115\pHD_Bowie Mill Road_Trail Profiles.dwg LAYOUT NAME: PR-17 PLOTTED: Monday, April 07, 2025 - 2:29pm USER: AHavener



TRAIL 14 PROFILE



TRAIL 14 PROFILE CONT'D

NOTES:
1. FOR PLAN VIEW SEE SHEETS PS-21, PS-22, AND PS-23.

90% DESIGN
NOT FOR CONSTRUCTION

NO.	REVISION	DATE	BY

MONTGOMERY COUNTY
DEPARTMENT OF TRANSPORTATION
GAITHERSBURG, MARYLAND

RECOMMENDED FOR APPROVAL

Chief, Design Section — Date

APPROVED

Chief, Division of Transportation Engineering — Date

Designed by: ADH Drawn by: TMB Checked by: JJR

PR-18
TRAIL PROFILES
BOWIE MILL ROAD
BIKEWAY

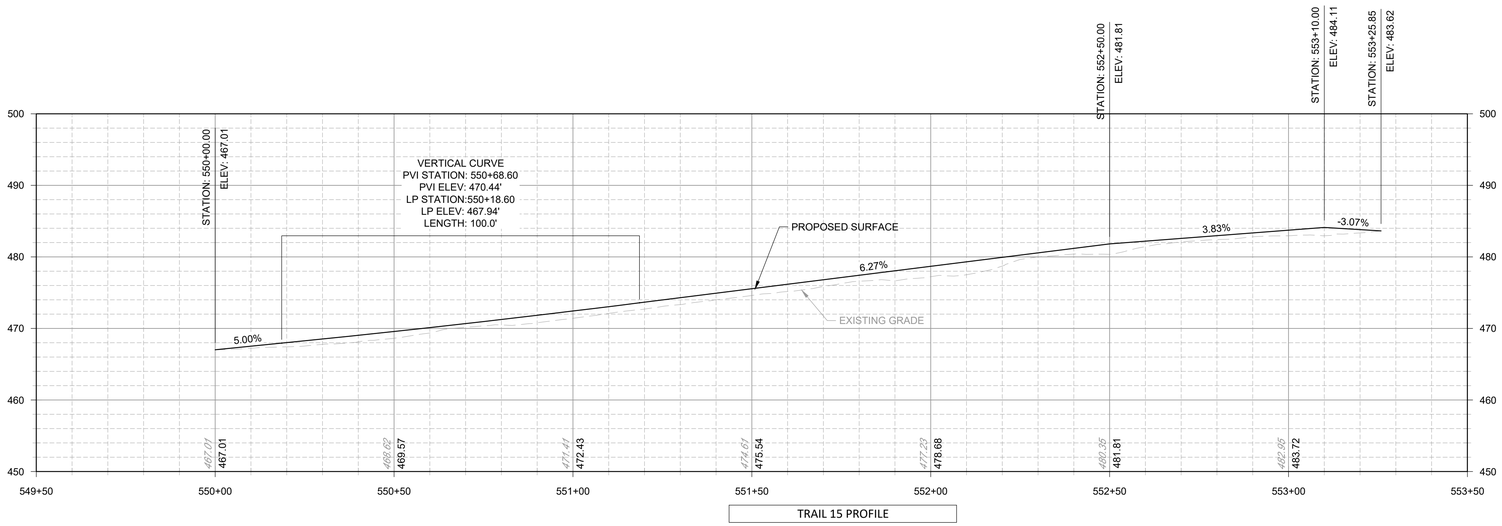
M-NCPPC PERMIT NO. MR2023016 SHA TRACKING NO. 24APMO039XX

0 20' 40'
SCALE: 1"=20'

DATE: APRIL 2025

Project No. : 502108 Sheet 82 of 393

FILE NAME: C:\pwworking\jmt\d0642115\pHD_Bowie Mill Road_Trail Profiles.dwg LAYOUT NAME: PR-18 PLOTTED: Monday, April 07, 2025 - 2:29pm USER: AHavener



TRAIL 15 PROFILE

NOTES:
1. FOR PLAN VIEW SEE SHEET PS-23.

90% DESIGN
NOT FOR CONSTRUCTION

NO.	REVISION	DATE	BY

MONTGOMERY COUNTY
DEPARTMENT OF TRANSPORTATION
GAITHERSBURG, MARYLAND

RECOMMENDED FOR APPROVAL

Chief, Design Section — Date

APPROVED

Chief, Division of Transportation Engineering — Date

Designed by: ADH Drawn by: TMB Checked by: JJR

PR-19
TRAIL PROFILES
BOWIE MILL ROAD
BIKEWAY

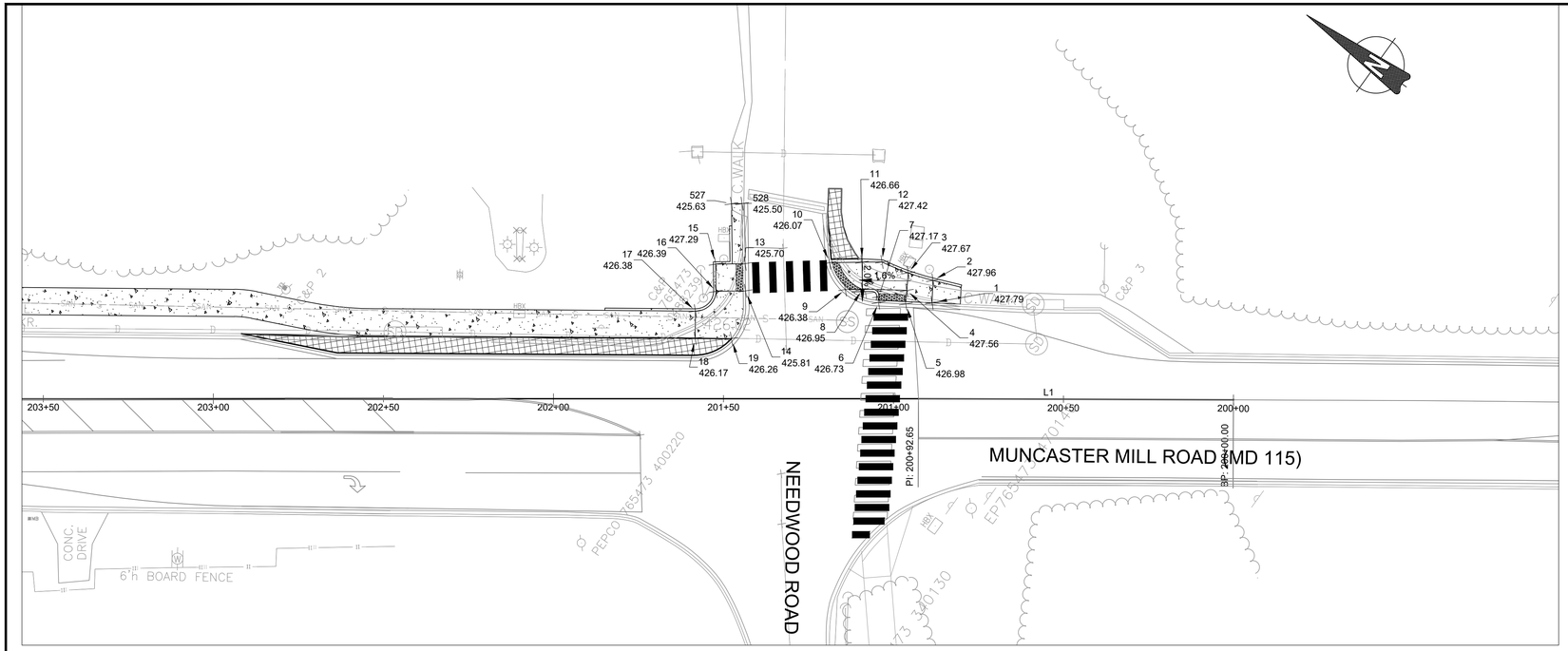
M-NCPPC PERMIT NO. MR2023016 SHA TRACKING NO. 24APMO039XX

0 20' 40'
SCALE: 1"=20'

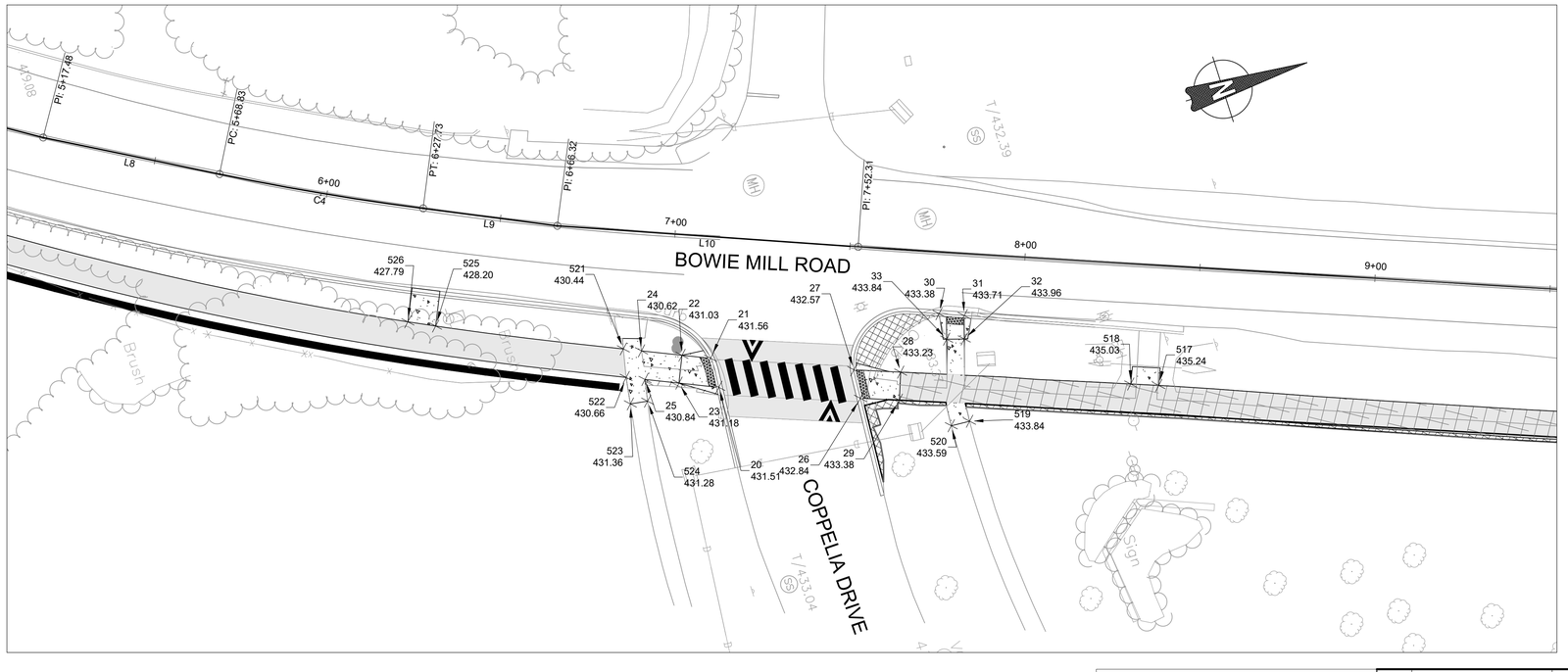
DATE: APRIL 2025

Project No. : 502108 Sheet 83 of 393

FILE NAME: C:\pwworking\jmt\d0642115\pHD_Bowie Mill Road_Trail Profiles.dwg LAYOUT NAME: PR-19 PLOTTED: Monday, April 07, 2025 - 2:29pm USER: AHavener



Point Table				
Point #	Raw Description	Elevation	Northing	Easting
528	TIE TO EXISTING	425.499	534012.2261	1277909.6274
527	TIE TO EXISTING	425.627	534014.7185	1277907.7759
19	BOTTOM OF LANDING	426.261	533991.5077	1277875.6049
18	TOP OF LANDING	426.170	534000.1894	1277869.4413
17	TOP OF LANDING	426.383	534004.8205	1277875.9645
16	TOP OF RAMP	426.385	534003.3321	1277884.2304
15	TOP OF RAMP	427.289	534008.0985	1277890.6555
14	BOTTOM OF RAMP	425.806	533996.3679	1277889.4035
13	BOTTOM OF RAMP	425.697	534001.1446	1277895.8336
12	TOP OF LANDING	427.422	533968.7983	1277919.8243
11	TOP OF RAMP	426.663	533973.5388	1277916.3285
10	BOTTOM OF RAMP	426.069	533981.1714	1277910.6212
9	BOTTOM OF RAMP	426.376	533972.7938	1277906.9275
8	TOP OF RAMP	426.951	533968.7682	1277909.9066
7	RAMP	427.167	533963.5698	1277911.0328
6	BOTTOM OF RAMP	426.730	533962.6343	1277909.5367
5	BOTTOM OF RAMP	426.985	533955.9200	1277913.9291
4	RAMP	427.561	533958.0061	1277917.3072
3	TOP OF RAMP	427.673	533960.6681	1277921.7401
2	TOP OF LANDING	427.959	533953.4672	1277924.2103
1	TOP OF LANDING	427.788	533949.8590	1277918.6947



Point Table				
Point #	Raw Description	Elevation	Northing	Easting
526	SIDEWALK CONNECTION	427.792	534855.7525	1277996.3491
525	SIDEWALK CONNECTION	428.198	534862.9322	1277999.8839
524	TIE TO EXISTING	431.275	534914.0689	1278038.6193
523	TIE TO EXISTING	431.358	534909.1371	1278037.8777
522	SIDEWALK CONNECTION	430.657	534910.2775	1278030.2984
521	SIDEWALK CONNECTION	430.440	534911.9833	1278022.3076
520	TIE TO EXISTING	433.588	534994.4808	1278071.5034
519	TIE TO EXISTING	433.835	534999.8605	1278071.8545
518	SIDEWALK CONNECTION	435.030	535046.8643	1278075.6422
517	SIDEWALK CONNECTION	435.237	535054.3551	1278078.4508
33	TOP OF RAMP	433.838	535000.7156	1278047.5565
32	TOP OF RAMP	433.956	535005.5056	1278049.0298
31	BOTTOM OF RAMP	433.714	535007.5131	1278042.6503
30	BOTTOM OF RAMP	433.384	535000.8402	1278039.9991
29	TOP OF RAMP	433.380	534982.5731	1278060.0558
28	TOP OF RAMP	433.232	534985.3591	1278052.5566
27	BOTTOM OF RAMP	432.568	534972.8237	1278047.8825
26	BOTTOM OF RAMP	432.837	534972.1377	1278056.1850
25	TOP OF LANDING	430.845	534915.2231	1278032.4784
24	TOP OF LANDING	430.620	534916.7482	1278024.4079
23	TOP OF RAMP	431.183	534924.1500	1278036.4133
22	TOP OF RAMP	431.031	534927.3768	1278029.0929
21	BOTTOM OF RAMP	431.565	534934.8864	1278032.3751
20	BOTTOM OF RAMP	431.512	534934.6342	1278040.9848

90% DESIGN
NOT FOR CONSTRUCTION

NO.	REVISION	DATE	BY

MONTGOMERY COUNTY
DEPARTMENT OF TRANSPORTATION
GAITHERSBURG, MARYLAND

RECOMMENDED FOR APPROVAL

Chief, Design Section — Date

APPROVED

Chief, Division of Transportation Engineering — Date

Designed by: ADH Drawn by: TMB Checked by: JJR

DT-01
DRIVEWAY & PEDESTRIAN RAMP DETAILS
BOWIE MILL ROAD BIKEWAY

M-NCPPC PERMIT NO. MR2023016 SHA TRACKING NO. 24APMO039XX

0 30' 60'

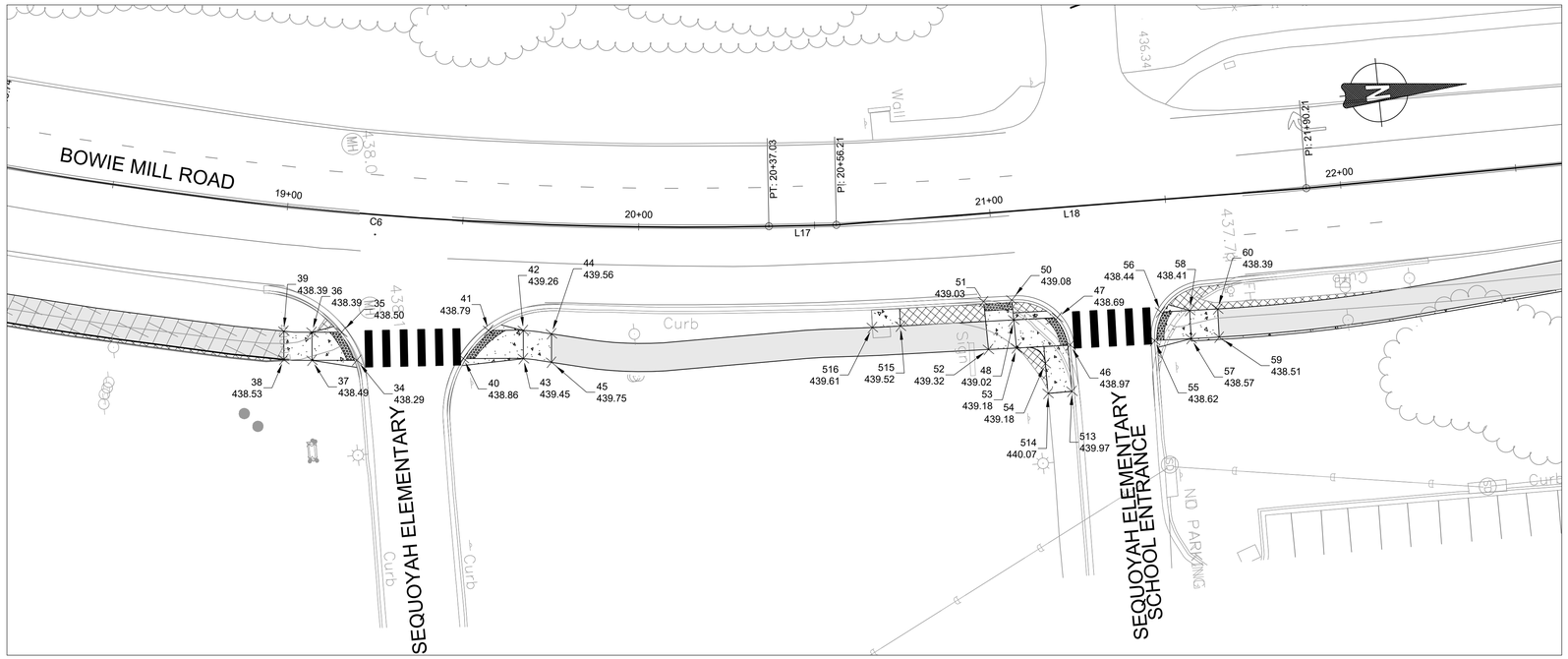
SCALE: 1"=30'

DATE: APRIL 2025

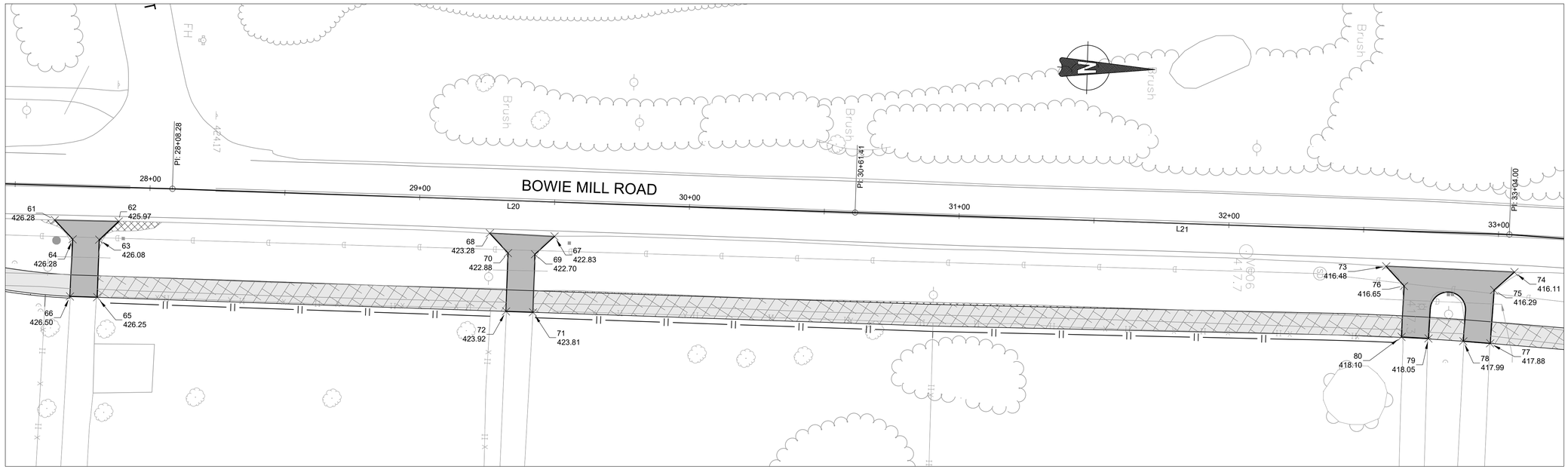
Project No. : 502108

Sheet 84 of 393

FILE NAME: C:\pwworking\jmt\d0642115\pDT_Bowie Mill Rd Ramp Details.dwg LAYOUT NAME: DT-02 PLOTTED: Monday, April 07, 2025 - 2:34pm USER: AHavener



Point Table				
Point #	Raw Description	Elevation	Northing	Easting
516	SIDEWALK CONNECTION	439.610	536221.3884	1278465.6492
515	SIDEWALK CONNECTION	439.520	536229.3778	1278466.0615
514	TIE TO EXISTING	440.070	536269.2301	1278489.2465
513	TIE TO EXISTING	439.969	536276.0650	1278489.3230
60	TOP OF LANDING	438.391	536319.6164	1278470.1504
59	TOP OF LANDING	438.512	536319.2502	1278478.1420
58	TOP OF RAMP	438.409	536311.6248	1278469.7842
57	TOP OF RAMP	438.569	536311.2590	1278477.7651
56	BOTTOM OF RAMP	438.444	536303.4022	1278469.3768
55	BOTTOM OF RAMP	438.623	536300.8682	1278477.3247
54	SIDEWALK	0.000	536269.3113	1278480.6856
53	TOP OF RAMP	439.177	536261.6036	1278475.5003
52	TOP OF RAMP	439.317	536253.6036	1278475.1337
51	BOTTOM OF RAMP	439.026	536253.5737	1278461.4535
50	BOTTOM OF RAMP	439.079	536261.6192	1278461.8173
48	TOP OF RAMP	439.024	536261.6036	1278467.4919
47	BOTTOM OF RAMP	438.688	536274.0309	1278468.0574
46	BOTTOM OF RAMP	438.970	536276.8583	1278476.1628
45	TOP OF LANDING	439.752	536129.6558	1278466.4683
44	TOP OF LANDING	439.560	536130.4306	1278458.4076
43	TOP OF RAMP	439.448	536121.7949	1278464.6372
42	TOP OF RAMP	439.264	536122.5616	1278456.6609
41	BOTTOM OF RAMP	438.789	536112.7337	1278455.6944
40	BOTTOM OF RAMP	438.857	536104.8190	1278462.8861
39	TOP OF LANDING	438.387	536054.7966	1278450.1283
38	TOP OF LANDING	438.533	536054.0006	1278458.1291
37	TOP OF RAMP	438.491	536061.9369	1278459.1666
36	TOP OF RAMP	438.388	536062.7289	1278451.2059
35	BOTTOM OF RAMP	438.501	536071.1261	1278452.0642
34	BOTTOM OF RAMP	438.286	536074.6224	1278460.4289



Point Table				
Point #	Raw Description	Elevation	Northing	Easting
80	TOP OF DRIVEWAY	418.100	537422.9058	1278482.9091
79	TOP OF DRIVEWAY	418.050	537432.9122	1278483.2324
78	TOP OF DRIVEWAY	417.989	537445.8298	1278483.9079
77	TOP OF DRIVEWAY	417.882	537455.8166	1278484.4228
76	DRIVEWAY RAMP TOP	416.649	537423.3468	1278464.0173
75	DRIVEWAY RAMP TOP	416.286	537456.7396	1278464.6399
74	ROADWAY FLOWLINE	416.114	537464.0675	1278457.7753
73	ROADWAY FLOWLINE	416.481	537416.5114	1278456.8886
72	TOP OF DRIVEWAY	423.920	537090.9206	1278482.3691
71	TOP OF DRIVEWAY	423.811	537100.9203	1278482.4448
70	DRIVEWAY RAMP TOP	422.880	537091.0844	1278460.7247
69	DRIVEWAY RAMP TOP	422.703	537101.0831	1278460.9407
68	ROADWAY FLOWLINE	423.281	537084.1384	1278453.5730
67	ROADWAY FLOWLINE	422.835	537108.1352	1278454.0915
66	TOP OF DRIVEWAY	426.498	536929.2356	1278481.1538
65	TOP OF DRIVEWAY	426.254	536939.3438	1278481.2217
64	DRIVEWAY RAMP TOP	426.278	536929.6809	1278459.9496
63	DRIVEWAY RAMP TOP	426.075	536939.5053	1278459.8904
62	ROADWAY FLOWLINE	425.973	536946.5588	1278452.8478
61	ROADWAY FLOWLINE	426.276	536922.8255	1278452.9907

90% DESIGN
NOT FOR CONSTRUCTION

NO.	REVISION	DATE	BY

MONTGOMERY COUNTY
DEPARTMENT OF TRANSPORTATION
GAITHERSBURG, MARYLAND

RECOMMENDED FOR APPROVAL

Chief, Design Section — Date

APPROVED

Chief, Division of Transportation Engineering — Date

Designed by: ADH Drawn by: TMB Checked by: JJR

DT-02
DRIVEWAY & PEDESTRIAN RAMP DETAILS
BOWIE MILL ROAD BIKEWAY

M-NCPPC PERMIT NO. MR2023016 SHA TRACKING NO. 24APMO039XX

0 30' 60'

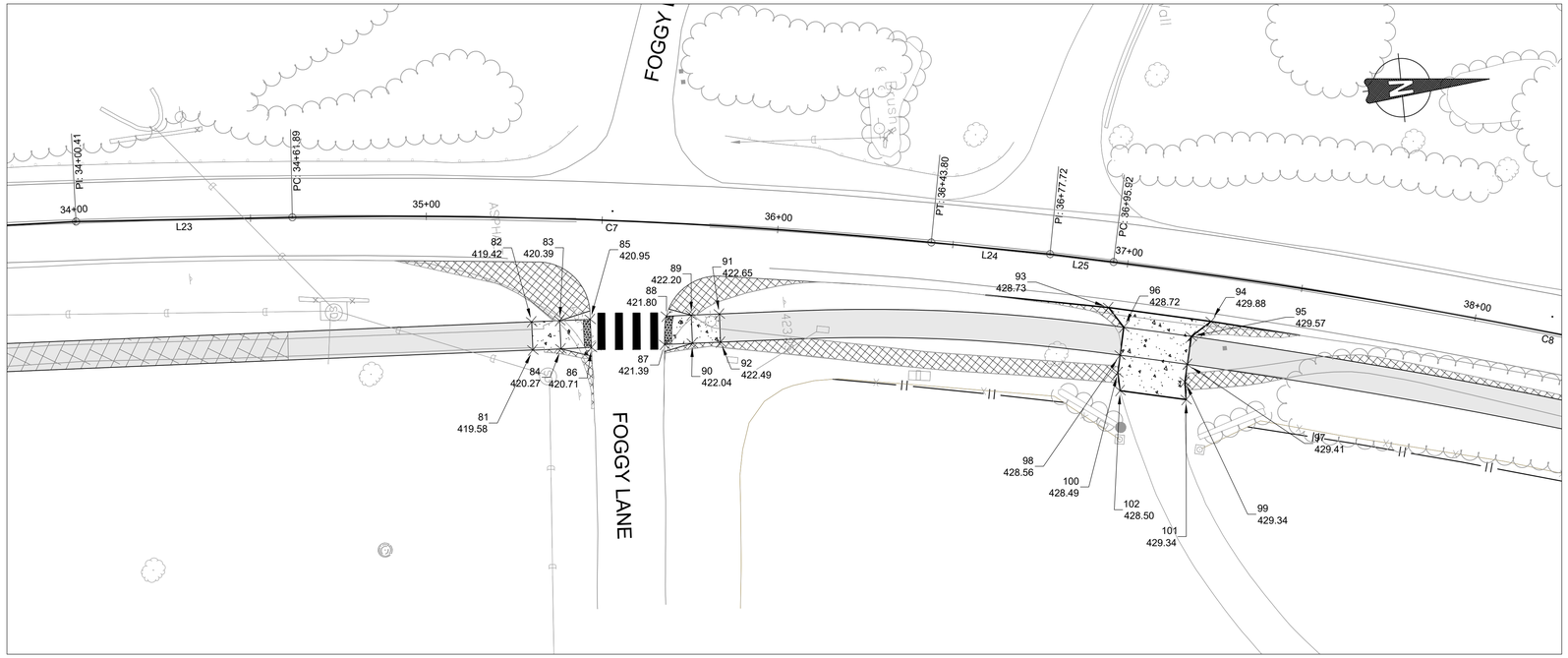
SCALE: 1"=30'

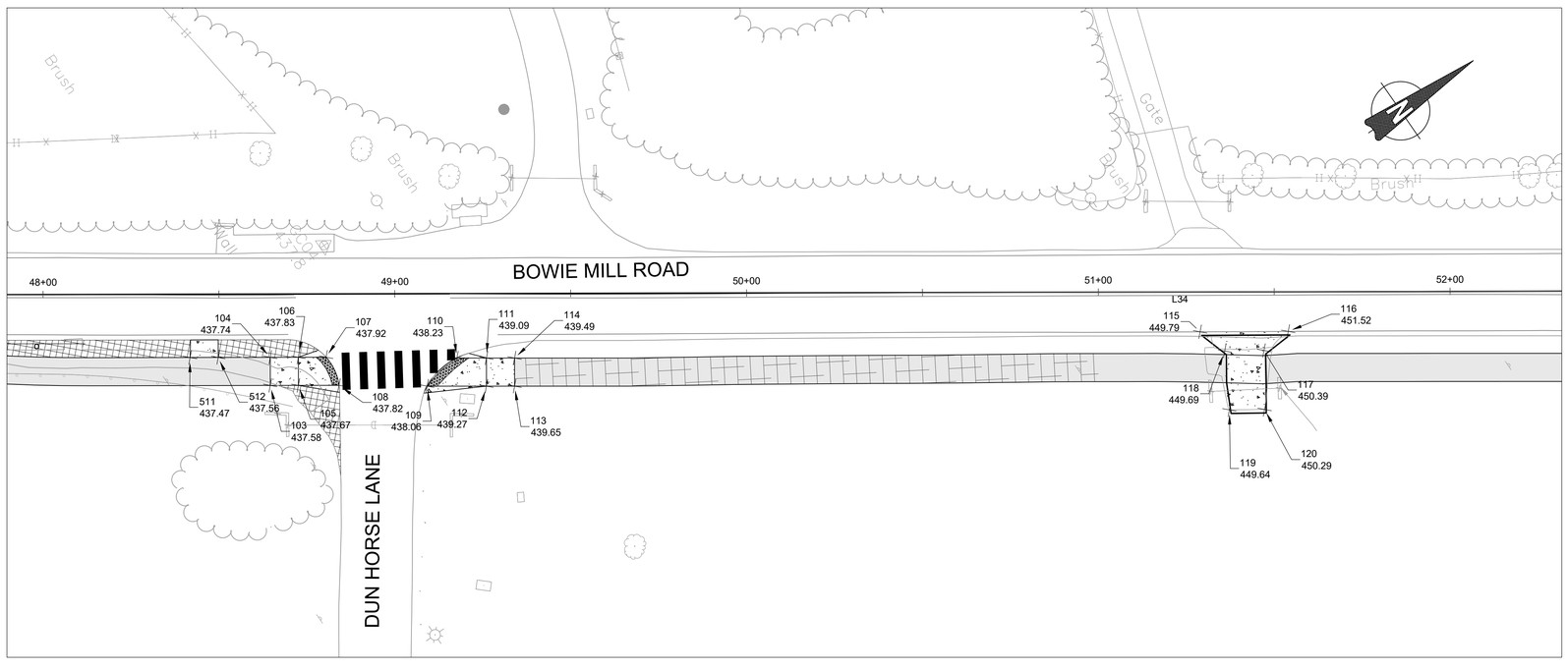
DATE: APRIL 2025

Project No. : 502108

Sheet 85 of 393

FILE NAME: C:\pwworking\jmt\d0642115\pDT_Bowie Mill Rd Ramp Details.dwg LAYOUT NAME: DT-03 PLOTTED: Monday, April 07, 2025 - 2:35pm USER: AHavener





Point Table				
Point #	Raw Description	Elevation	Northing	Easting
102	TIE TO EXISTING	428.499	537848.7188	1278525.6448
100	DRIVEWAY	428.488	537848.5832	1278520.4720
99	DRIVEWAY	429.342	537867.3371	1278524.9489
98	TOP OF DRIVEWAY	428.558	537849.7441	1278515.6086
97	TOP OF DRIVEWAY	429.412	537868.4980	1278520.0855
96	DRIVEWAY RAMP TOP	428.715	537851.5601	1278507.8175
95	DRIVEWAY RAMP TOP	429.573	537870.3971	1278512.3142
94	ROADWAY FLOWLINE	429.881	537876.4395	1278508.6507
93	ROADWAY FLOWLINE	428.730	537847.8241	1278501.8197
92	TOP OF LANDING	422.489	537737.0574	1278500.6874
91	TOP OF LANDING	422.649	537737.5193	1278492.7007
90	TOP OF RAMP	422.038	537729.0708	1278500.2255
89	TOP OF RAMP	422.197	537729.5327	1278492.2388
88	BOTTOM OF RAMP	421.795	537722.4479	1278491.8291
87	BOTTOM OF RAMP	421.389	537721.1629	1278499.7681
86	ROADWAY FLOWLINE	420.712	537700.4005	1278498.5634
85	ROADWAY FLOWLINE	420.952	537700.8437	1278490.5757
84	TOP OF RAMP	420.273	537691.7312	1278498.1057
83	TOP OF RAMP	420.395	537692.1879	1278490.0790
82	TOP OF LANDING	419.421	537684.2013	1278489.6171
81	TOP OF LANDING	419.581	537683.7394	1278497.6038
101	TIE TO EXISTING	429.336	537867.1642	1278530.0481

90% DESIGN
NOT FOR CONSTRUCTION

NO.	REVISION	DATE	BY

MONTGOMERY COUNTY
DEPARTMENT OF TRANSPORTATION
GAITHERSBURG, MARYLAND

RECOMMENDED FOR APPROVAL

Chief, Design Section — Date

APPROVED

Chief, Division of Transportation Engineering — Date

Designed by: ADH Drawn by: TMB Checked by: JJR

DT-03
DRIVEWAY & PEDESTRIAN RAMP DETAILS
BOWIE MILL ROAD
BIKEWAY

M-NCPPC PERMIT NO. MR2023016 SHA TRACKING NO. 24APMO039XX

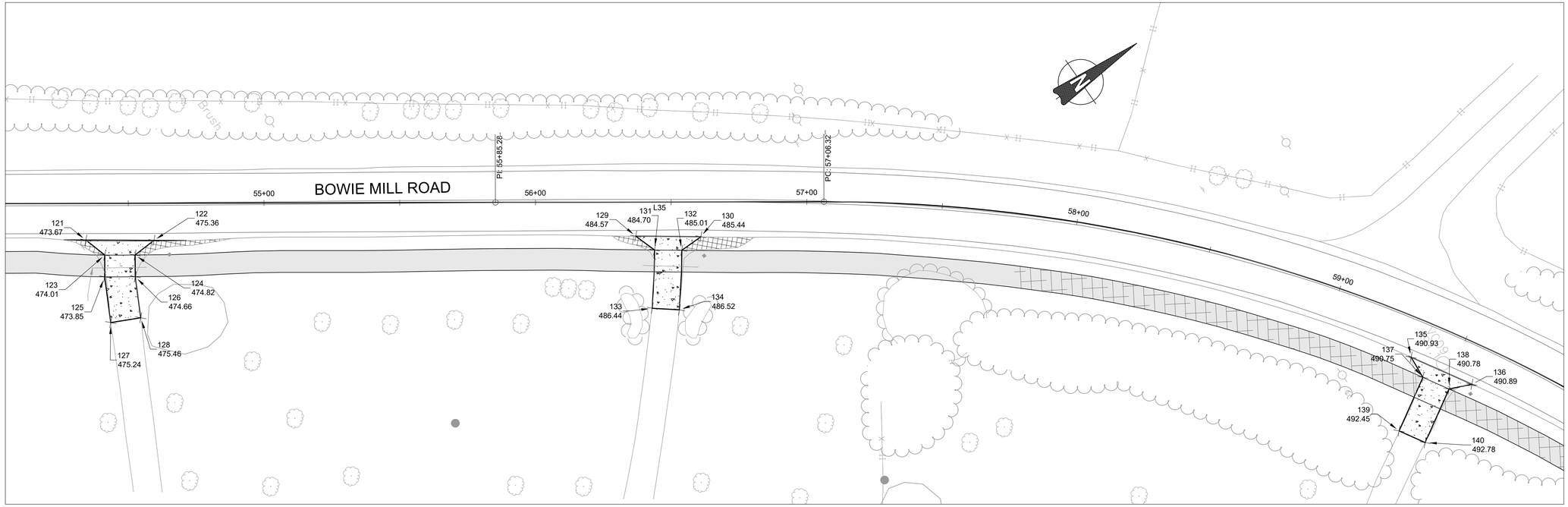
0 30' 60'

SCALE: 1"=30'

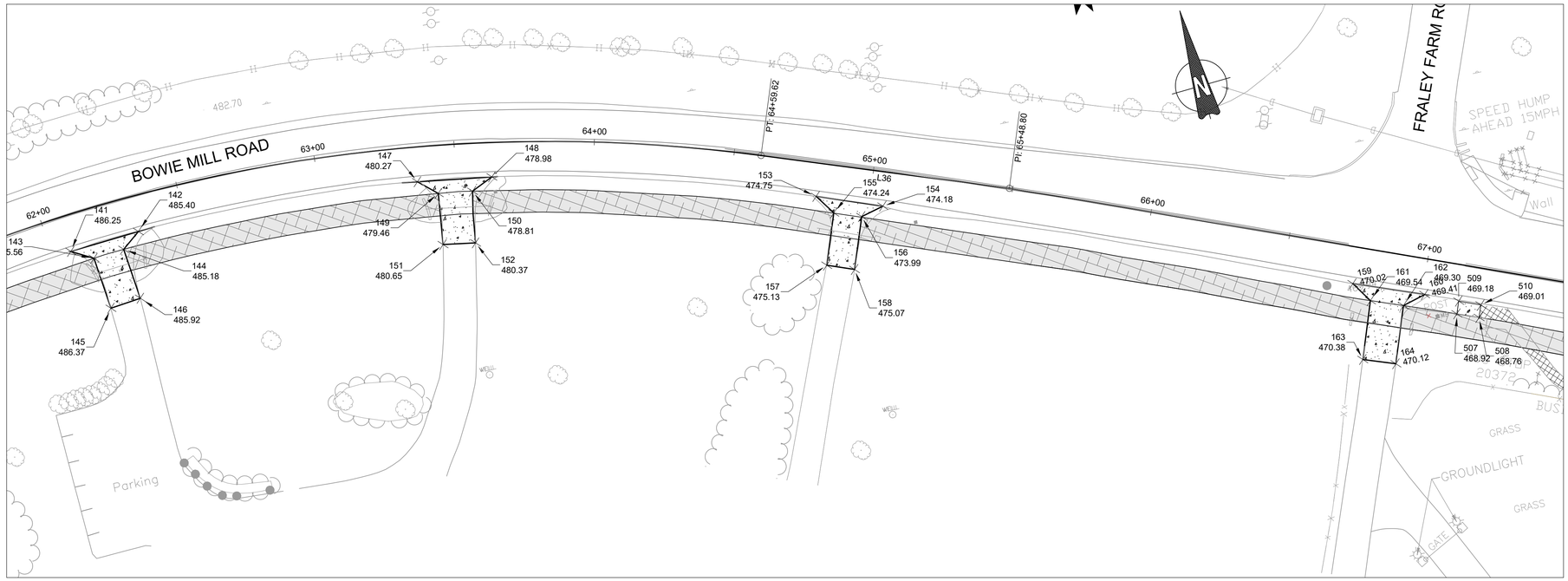
DATE: APRIL 2025

Project No. : 502108

Sheet 86 of 393



Point Table				
Point #	Raw Description	Elevation	Northing	Easting
134	TIE TO EXISTING	486.522	539519.4912	1279479.4491
133	TIE TO EXISTING	486.441	539511.5881	1279473.2924
132	DRIVEWAY RAMP TOP	485.006	539532.6766	1279461.9122
131	DRIVEWAY RAMP TOP	484.700	539524.4988	1279456.1400
130	ROADWAY FLOWLINE	485.440	539541.3128	1279461.8153
129	ROADWAY FLOWLINE	484.570	539521.6882	1279447.9888
128	TIE TO EXISTING	475.461	539354.5852	1279368.9970
127	TIE TO EXISTING	475.240	539344.4976	1279364.1682
126	TOP OF DRIVEWAY	474.664	539361.5217	1279355.4140
125	TOP OF DRIVEWAY	473.845	539352.2296	1279349.0273
124	DRIVEWAY RAMP TOP	474.824	539366.0128	1279348.7807
123	DRIVEWAY RAMP TOP	474.006	539356.8231	1279342.4640
122	ROADWAY FLOWLINE	475.356	539374.7771	1279348.3216
121	ROADWAY FLOWLINE	473.670	539354.2371	1279333.9510
140	TIE TO EXISTING	492.785	539717.7088	1279675.9293
139	TIE TO EXISTING	492.451	539712.2401	1279666.9357
138	DRIVEWAY RAMP TOP	490.781	539736.1476	1279664.7171
137	DRIVEWAY RAMP TOP	490.748	539730.6789	1279655.7236
136	ROADWAY FLOWLINE	490.892	539744.0868	1279668.0821
135	ROADWAY FLOWLINE	490.925	539731.3153	1279647.1441



90% DESIGN
NOT FOR CONSTRUCTION

NO.	REVISION	DATE	BY

MONTGOMERY COUNTY
DEPARTMENT OF TRANSPORTATION
GAITHERSBURG, MARYLAND

RECOMMENDED FOR APPROVAL

Chief, Design Section — Date

APPROVED

Chief, Division of Transportation Engineering — Date

Designed by: ADH Drawn by: TMB Checked by: JJR

DT-04
DRIVEWAY & PEDESTRIAN RAMP DETAILS
BOWIE MILL ROAD
BIKEWAY

M-NCPPC PERMIT NO. MR2023016 SHA TRACKING NO. 24APMO039XX

0 30' 60'

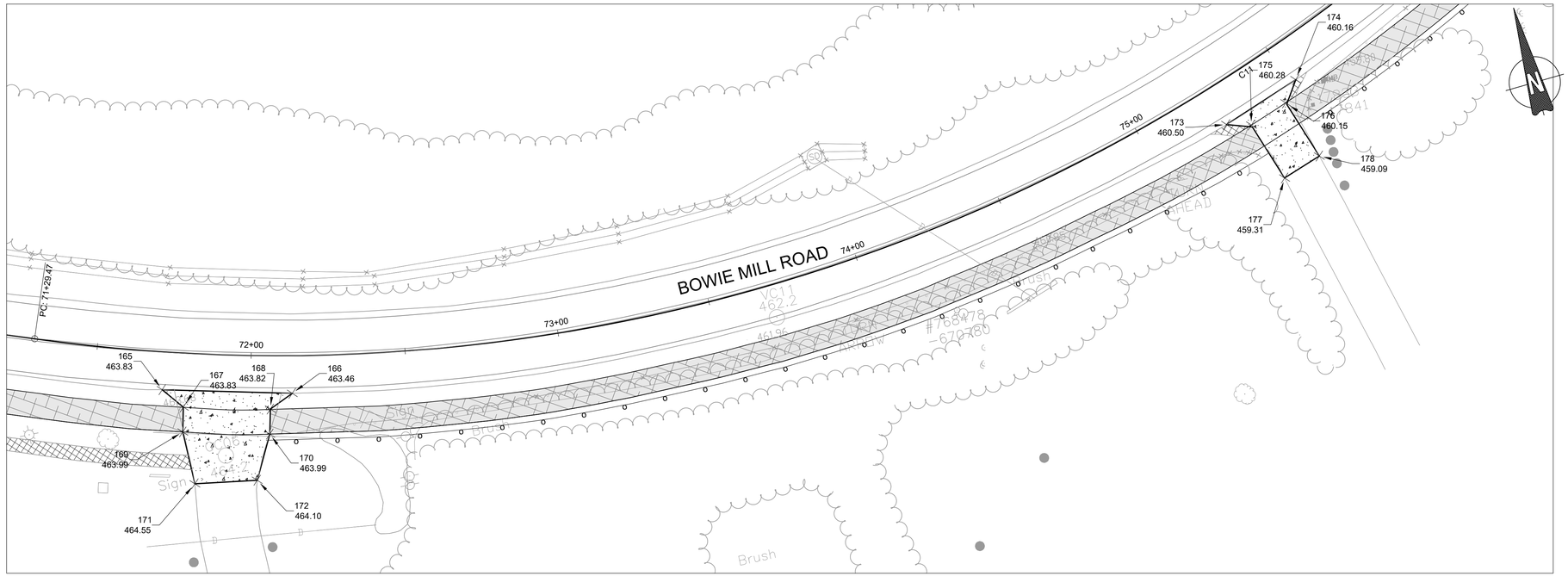
SCALE: 1"=30'

DATE: APRIL 2025

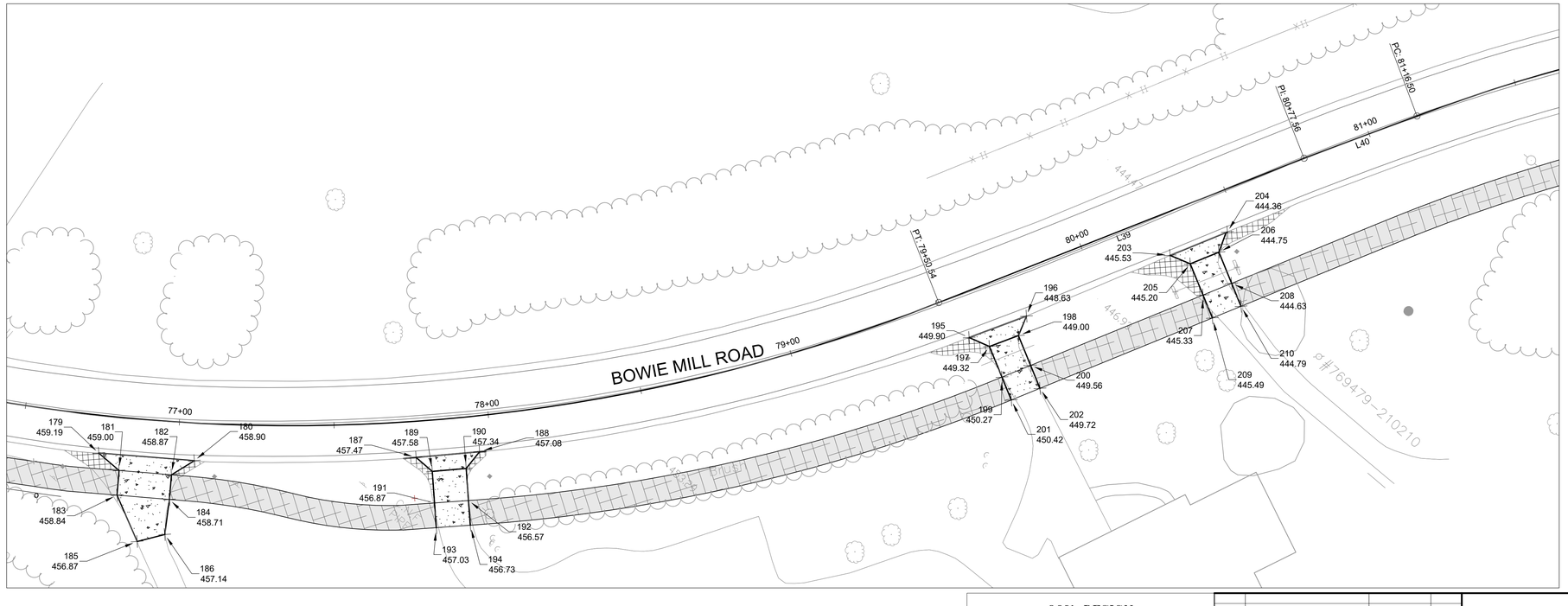
Project No. : 502108

Sheet 87 of 393

FILE NAME: C:\pwworking\jmt\d0642115\pDT_Bowie Mill Rd Ramp Details.dwg LAYOUT NAME: DT-05 PLOTTED: Monday, April 07, 2025 - 2:38pm USER: AHavener



Point Table				
Point #	Raw Description	Elevation	Northing	Easting
178	TIE TO EXISTING	459.094	539529.8477	1281188.1193
177	TIE TO EXISTING	459.306	539525.2380	1281175.5980
176	DRIVEWAY RAMP TOP	460.155	539548.9947	1281181.0590
175	DRIVEWAY RAMP TOP	460.282	539544.2949	1281168.6636
174	ROADWAY FLOWLINE	460.165	539555.6898	1281185.8026
173	ROADWAY FLOWLINE	460.497	539546.1237	1281160.8097
172	TIE TO EXISTING	464.103	539498.9390	1280828.9890
171	TIE TO EXISTING	464.548	539502.0470	1280808.9660
170	SIDEWALK CONNECTION	463.986	539512.7519	1280836.1018
169	SIDEWALK CONNECTION	463.989	539519.3267	1280808.6365
168	DRIVEWAY RAMP TOP	463.823	539520.6582	1280837.9821
167	DRIVEWAY RAMP TOP	463.828	539527.1925	1280810.5072
166	ROADWAY FLOWLINE	463.456	539524.1639	1280846.0112
165	ROADWAY FLOWLINE	463.826	539534.1394	1280804.9641



Point Table				
Point #	Raw Description	Elevation	Northing	Easting
194	SIDEWALK CONNECTION	456.731	539677.7843	1281401.5503
193	SIDEWALK CONNECTION	457.025	539669.9703	1281393.8081
192	SIDEWALK CONNECTION	456.570	539683.4358	1281395.8882
191	SIDEWALK CONNECTION	456.868	539675.6504	1281388.1173
190	DRIVEWAY RAMP TOP	457.339	539690.7848	1281388.5254
189	DRIVEWAY RAMP TOP	457.580	539682.8644	1281380.8897
188	ROADWAY FLOWLINE	457.082	539697.7003	1281388.2473
187	ROADWAY FLOWLINE	457.473	539682.8644	1281373.9445
186	TIE TO EXISTING	457.145	539610.7338	1281328.9335
185	TIE TO EXISTING	456.870	539603.1874	1281323.6714
184	SIDEWALK CONNECTION	458.706	539620.2954	1281322.6471
183	SIDEWALK CONNECTION	458.843	539610.2400	1281308.9573
182	DRIVEWAY RAMP TOP	458.866	539626.7474	1281317.9172
181	DRIVEWAY RAMP TOP	459.003	539616.6863	1281304.2198
180	ROADWAY FLOWLINE	458.899	539635.0373	1281320.5055
179	ROADWAY FLOWLINE	459.187	539616.6360	1281295.5697
210	SIDEWALK CONNECTION	444.787	539894.6509	1281543.2894
209	SIDEWALK CONNECTION	445.490	539885.7269	1281538.7769
208	SIDEWALK CONNECTION	444.626	539898.2609	1281536.1502
207	SIDEWALK CONNECTION	445.329	539889.3368	1281531.6377
206	DRIVEWAY RAMP TOP	444.753	539903.1811	1281526.4197
205	DRIVEWAY RAMP TOP	445.201	539894.2582	1281521.9050
204	ROADWDAY FLOWLINE	444.363	539909.8987	1281524.2150
203	ROADWDAY FLOWLINE	445.530	539892.0532	1281515.1844
202	SIDEWALK CONNECTION	449.724	539831.9896	1281511.6047
201	SIDEWALK CONNECTION	450.424	539823.0656	1281507.0923
200	SIDEWALK CONNECTION	449.563	539835.5995	1281504.4655
199	SIDEWALK CONNECTION	450.267	539826.6755	1281499.9530
198	DRIVEWAY RAMP TOP	449.000	539840.2996	1281495.1704
197	DRIVEWAY RAMP TOP	449.316	539831.5065	1281490.3990
196	ROADWAY FLOWLINE	448.628	539846.7740	1281492.9950
195	ROADWAY FLOWLINE	449.898	539829.3671	1281483.5494

90% DESIGN
NOT FOR CONSTRUCTION

NO.	REVISION	DATE	BY

MONTGOMERY COUNTY
DEPARTMENT OF TRANSPORTATION
GAITHERSBURG, MARYLAND

RECOMMENDED FOR APPROVAL

Chief, Design Section — Date

APPROVED

Chief, Division of Transportation Engineering — Date

Designed by: ADH Drawn by: TMB Checked by: JJR

DT-05
DRIVEWAY & PEDESTRIAN RAMP DETAILS
BOWIE MILL ROAD
BIKEWAY

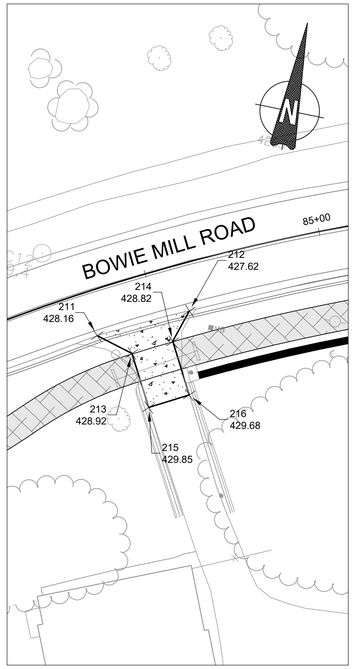
M-NCPPC PERMIT NO. MR2023016 SHA TRACKING NO. 24APMO039XX

0 30' 60'

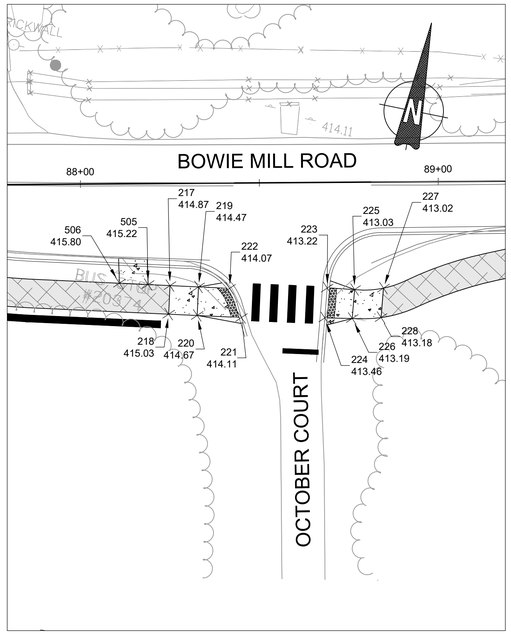
SCALE: 1"=30'

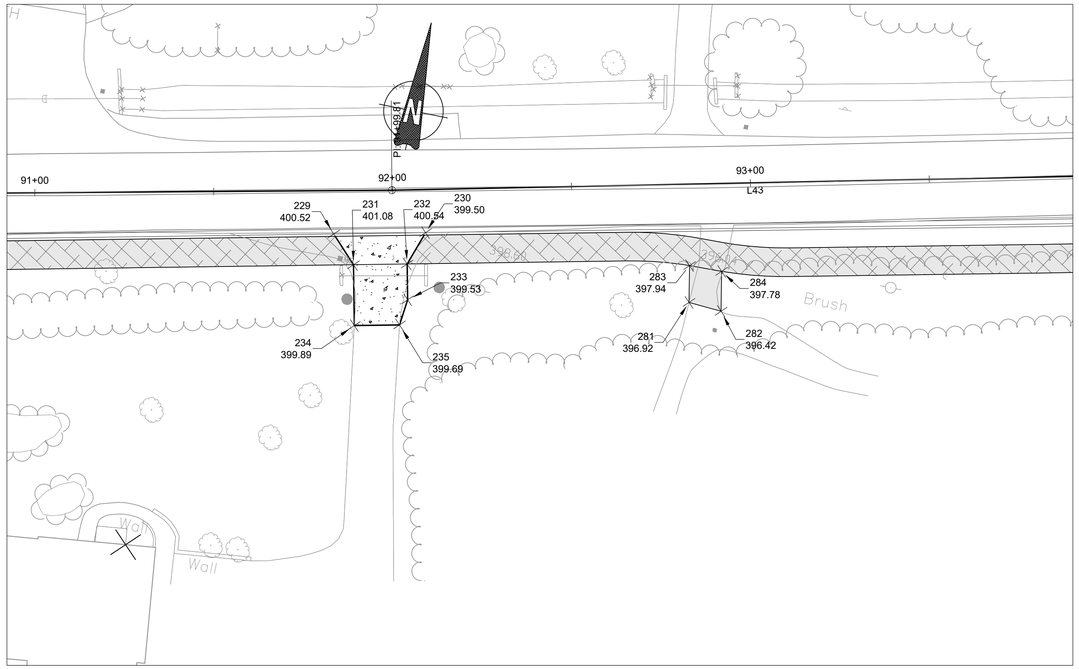
DATE: APRIL 2025

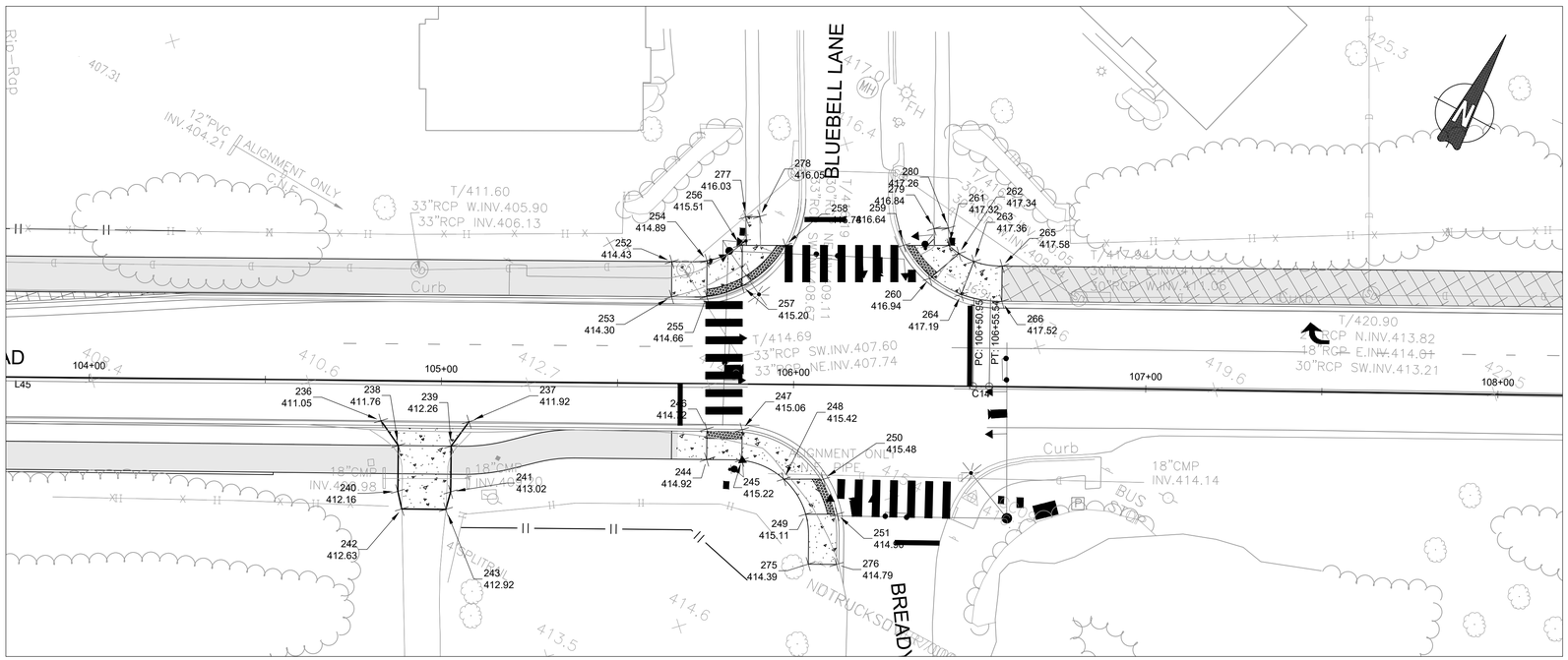
Project No. : 502108 Sheet 88 of 393



Point Table				
Point #	Raw Description	Elevation	Northing	Easting
506	SIDEWALK CONNECTION	415.796	540278.1154	1282131.9594
505	SIDEWALK CONNECTION	415.225	540279.3494	1282139.8903
228	TOP OF LANDING	413.184	540283.2583	1282205.5230
227	TOP OF LANDING	413.023	540291.4559	1282204.5416
226	TOP OF RAMP	413.187	540281.4003	1282197.6818
225	TOP OF RAMP	413.028	540289.4523	1282196.7243
224	BOTTOM OF RAMP	413.460	540280.0224	1282190.1285
223	BOTTOM OF RAMP	413.222	540288.3516	1282189.1313
222	BOTTOM OF RAMP	414.067	540282.8448	1282162.4094
221	BOTTOM OF RAMP	414.110	540275.5064	1282167.2877
220	TOP OF RAMP	414.671	540273.6126	1282155.0538
219	TOP OF RAMP	414.470	540281.5174	1282153.8238
218	TOP OF LANDING	415.033	540272.3826	1282147.1489
217	TOP OF LANDING	414.873	540280.2874	1282145.9190
216	TIE TO EXISTING	429.682	540178.5289	1281798.6890
215	TIE TO EXISTING	429.848	540172.8166	1281788.2669
214	DRIVEWAY RAMP TOP	428.818	540192.1608	1281791.2174
213	DRIVEWAY RAMP TOP	428.919	540186.6894	1281780.6632
212	ROADWAY FLOWLINE	427.620	540201.5413	1281794.0584
211	ROADWAY FLOWLINE	428.161	540189.6353	1281770.1922
284	SIDEWALK CONNECTION	397.783	540381.4963	1282601.8089
283	SIDEWALK CONNECTION	397.939	540381.2956	1282592.6941
282	TIE TO EXISTING	396.422	540370.5261	1282603.8840
281	TIE TO EXISTING	396.923	540371.1700	1282594.6094
235	TIE TO EXISTING	399.691	540348.9192	1282516.5769
234	TIE TO EXISTING	399.893	540346.2333	1282504.2282
233	TIE TO EXISTING	399.528	540356.2612	1282517.3971
232	DRIVEWAY RAMP TOP	400.540	540366.0328	1282515.2717
231	DRIVEWAY RAMP TOP	401.083	540362.8447	1282500.6144
230	ROADWAY FLOWLINE	399.503	540375.6207	1282518.5599
229	ROADWAY FLOWLINE	400.519	540370.1655	1282493.4793







Point Table				
Point #	Raw Description	Elevation	Northing	Easting
280	TIE TO EXISTING	417.260	540953.5593	1283821.8313
279	TIE TO EXISTING	416.837	540951.5230	1283818.2930
278	TIE TO EXISTING	416.054	540931.3452	1283773.0106
277	TIE TO EXISTING	416.028	540929.3824	1283769.5253
276	TIE TO EXISTING	414.794	540854.2164	1283838.5838
275	TIE TO EXISTING	414.387	540850.5442	1283831.4764
266	TOP OF LANDING	417.519	540942.2882	1283844.9863
265	TOP OF LANDING	417.582	540951.1670	1283840.3855
264	BOTTOM OF LANDING	417.189	540938.6263	1283833.8845
263	BOTTOM OF LANDING	417.360	540948.5573	1283832.6692
262	TOP OF RAMP	417.338	540948.5573	1283827.8649
261	TOP OF RAMP	417.320	540949.2741	1283824.2974
260	BOTTOM OF RAMP	416.944	540938.4370	1283823.8427
259	BOTTOM OF RAMP	416.641	540943.2666	1283812.8942
258	BOTTOM OF RAMP	415.783	540927.4688	1283783.2010
257	BOTTOM OF RAMP	415.198	540911.5342	1283777.8068
256	TOP OF RAMP	415.510	540921.4516	1283771.8843
255	BOTTOM OF RAMP	414.661	540904.2259	1283770.3358
254	BOTTOM OF LANDING	414.893	540913.1895	1283765.6751
253	TOP OF LANDING	414.297	540899.4384	1283761.5541
252	TOP OF LANDING	414.430	540908.3107	1283756.9409
251	BOTTOM OF RAMP	414.898	540866.8892	1283832.0676
250	BOTTOM OF RAMP	415.484	540873.8577	1283823.9084
249	TOP OF RAMP	415.112	540862.7366	1283824.1713
248	TOP OF RAMP	415.417	540868.6212	1283813.9954
247	BOTTOM OF RAMP	415.061	540875.4888	1283796.9674
246	BOTTOM OF RAMP	414.721	540870.9366	1283787.9934
245	TOP OF RAMP	415.221	540867.8598	1283800.9260
244	TOP OF RAMP	414.917	540863.2694	1283792.0418
243	TIE TO EXISTING	412.923	540816.0321	1283733.2953
242	TIE TO EXISTING	412.630	540810.2890	1283722.1799
241	TIE TO EXISTING	413.023	540821.0679	1283732.1492
240	TIE TO EXISTING	412.159	540814.1824	1283718.8229
239	DRIVEWAY RAMP TOP	412.262	540832.6174	1283726.1818
238	DRIVEWAY RAMP TOP	411.758	540825.7319	1283712.8555
237	ROADWAY FLOWLINE	411.925	540841.1315	1283727.4107
236	ROADWAY FLOWLINE	411.048	540829.6557	1283705.2002

90% DESIGN
NOT FOR CONSTRUCTION

NO.	REVISION	DATE	BY

MONTGOMERY COUNTY
DEPARTMENT OF TRANSPORTATION
GAITHERSBURG, MARYLAND

RECOMMENDED FOR APPROVAL

Chief, Design Section — Date

APPROVED

Chief, Division of Transportation Engineering — Date

Designed by: ADH Drawn by: TMB Checked by: JJR

DT-06
DRIVEWAY & PEDESTRIAN RAMP DETAILS
BOWIE MILL ROAD BIKEWAY

M-NCPPC PERMIT NO. MR2023016 SHA TRACKING NO. 24APMO039XX

0 30' 60'

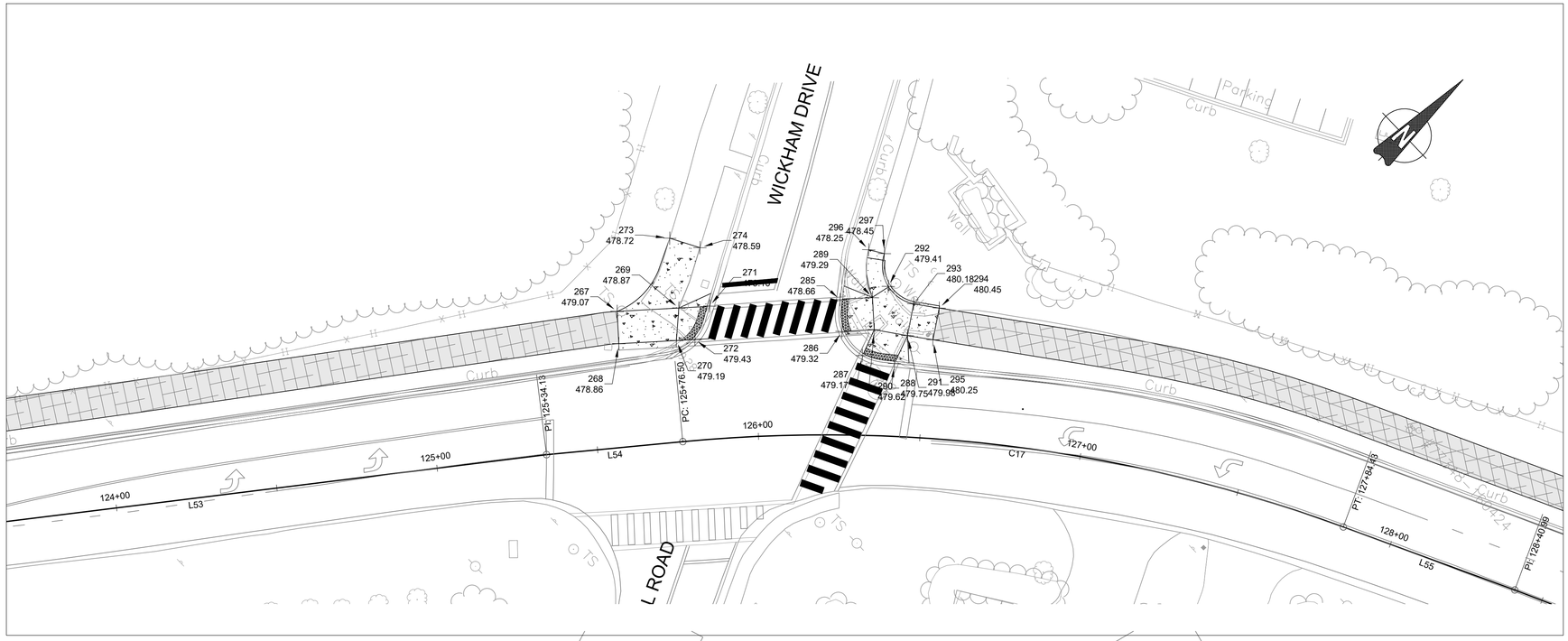
SCALE: 1"=30'

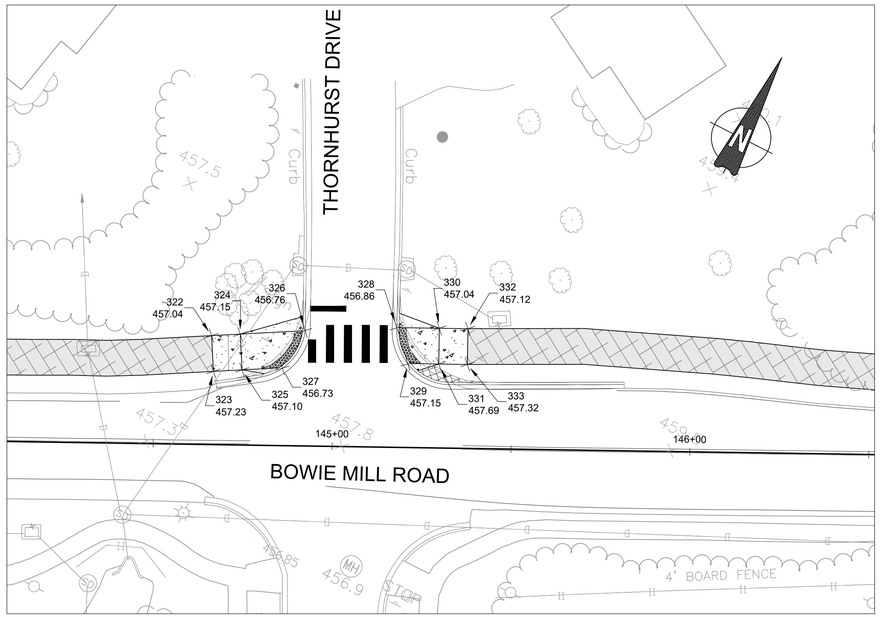
DATE: APRIL 2025

Project No. : 502108

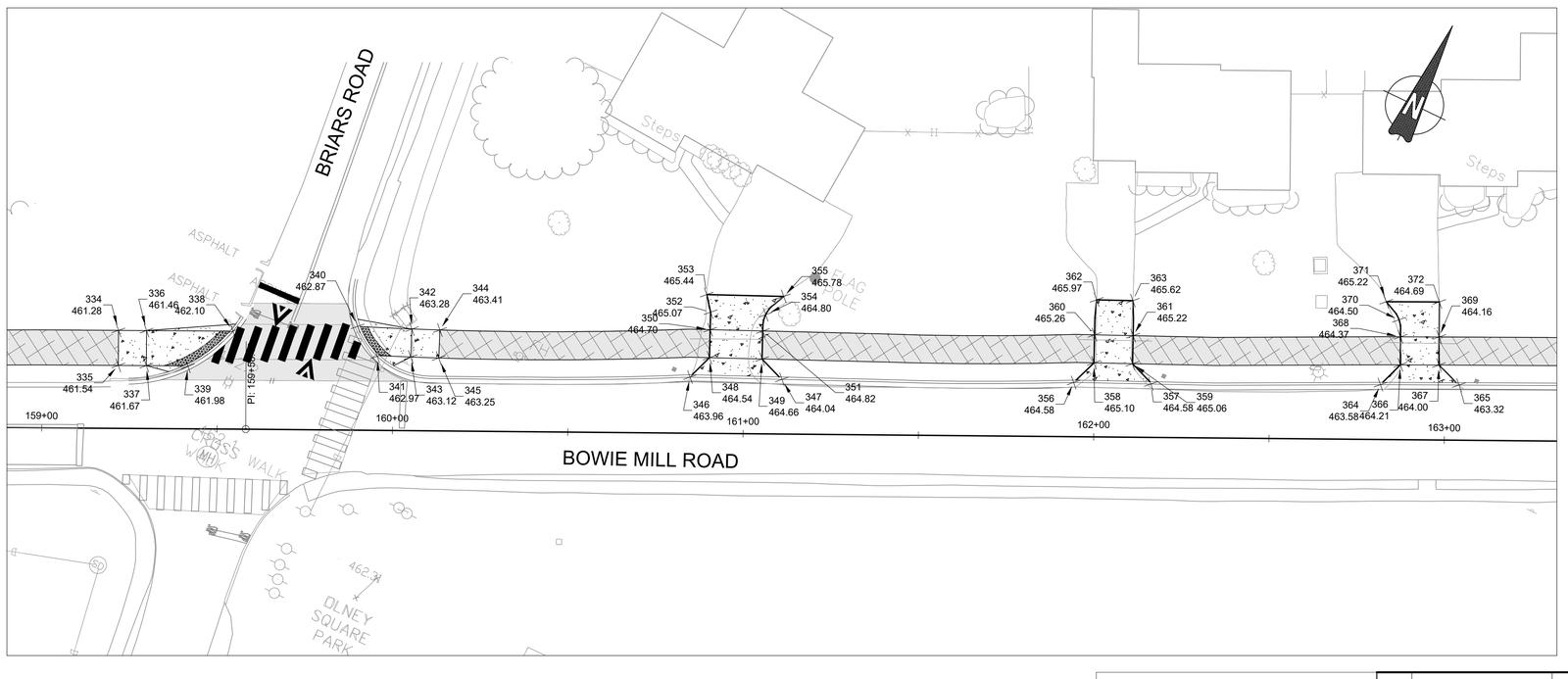
Sheet 89 of 393

FILE NAME: C:\pwworking\jmt\d0642115\pDT_Bowie Mill Rd Ramp Details.dwg LAYOUT NAME: DT-07 PLOTTED: Monday, April 07, 2025 - 2:41pm USER: AHavener


WICKHAM DRIVE
Curb
Parking
Curb
Wall
Curb
Curb
Curb
273
478.72
274
478.59
269
478.87
267
479.07
271
268
478.86
270
479.19
272
479.43
286
479.32
296
478.25
297
478.45
289
479.29
292
479.41
285
478.66
293
480.18
294
480.45
287
479.17
280
479.62
288
479.75
291
479.99
295
480.25
PI: 125+34.13
PC: 125+76.50
125+00
126+00
127+00
L54
C17
L53
124+00
PT: 127+84.83
128+00
L55
PI: 128+40.69
Curb
Curb
Curb



Point Table				
Point #	Raw Description	Elevation	Northing	Easting
333	TOP OF LANDING	457.321	542907.6362	1287144.8265
332	TOP OF LANDING	457.117	542916.6286	1287140.4486
331	TOP OF RAMP	457.690	542904.1264	1287137.6401
330	TOP OF RAMP	457.043	542913.1158	1287133.2611
329	BOTTOM OF RAMP	457.151	542900.2691	1287129.9059
328	BOTTOM OF RAMP	456.863	542907.8576	1287122.5885
327	BOTTOM OF RAMP	456.726	542883.3268	1287099.1989
326	BOTTOM OF RAMP	456.756	542895.5406	1287100.0889
325	TOP OF RAMP	457.096	542877.8122	1287089.3514
324	TOP OF RAMP	457.154	542886.4798	1287084.3641
323	TOP OF LANDING	457.232	542873.8224	1287082.4173
322	TOP OF LANDING	457.041	542882.4899	1287077.4300



Point Table				
Point #	Raw Description	Elevation	Northing	Easting
353	TIE TO EXISTING	465.438	543587.5096	1288540.3429
345	TOP OF LANDING	463.250	543538.1345	1288479.2704
344	TOP OF LANDING	463.414	543545.4888	1288476.1207
343	TOP OF RAMP	463.117	543534.9347	1288471.9380
342	TOP OF RAMP	463.277	543542.2846	1288468.7902
341	BOTTOM OF RAMP	462.974	543530.9791	1288463.2197
340	BOTTOM OF RAMP	462.865	543536.2807	1288454.5072
339	BOTTOM OF RAMP	461.978	543505.1082	1288415.7971
338	BOTTOM OF RAMP	462.095	543519.6934	1288423.0290
337	TOP OF RAMP	461.666	543500.1216	1288405.0008
336	TOP OF RAMP	461.462	543509.1662	1288400.7352
335	TOP OF LANDING	461.536	543496.7092	1288397.7651
334	TOP OF LANDING	461.277	543505.7538	1288393.4995
363	TIE TO EXISTING	465.618	543638.4846	1288650.6696
362	TIE TO EXISTING	465.966	543634.2217	1288641.2689
361	SIDEWALK CONNECTION	465.220	543629.4973	1288655.0642
360	SIDEWALK CONNECTION	465.258	543624.9544	1288645.0462
358	DRIVEWAY RAMP TOP	465.098	543617.6685	1288648.3501
357	ROADWAY FLOWLINE	464.581	543619.2538	1288665.5825
356	ROADWAY FLOWLINE	464.582	543610.1320	1288645.5429
355	TIE TO EXISTING	465.779	543596.5163	1288560.3873
354	TIE TO EXISTING	464.804	543589.5992	1288557.9904
352	TIE TO EXISTING	465.068	543583.4550	1288543.5186
351	SIDEWALK CONNECTION	464.824	543585.0422	1288559.2502
350	SIDEWALK CONNECTION	464.704	543578.8943	1288545.5680
349	DRIVEWAY RAMP TOP	464.664	543577.7451	1288562.5291
348	DRIVEWAY RAMP TOP	464.544	543571.5971	1288548.8469
347	ROADWAY FLOWLINE	464.042	543574.9537	1288570.1581
346	ROADWAY FLOWLINE	463.958	543564.2030	1288546.2326
372	TIE TO EXISTING	464.690	543675.9346	1288729.6386
371	TIE TO EXISTING	465.222	543669.4665	1288715.9649
370	TIE TO EXISTING	464.500	543666.3565	1288721.4793
369	SIDEWALK CONNECTION	464.164	543666.8949	1288733.9146
368	SIDEWALK CONNECTION	464.373	543662.1913	1288723.9710
367	DRIVEWAY RAMP TOP	464.004	543659.6632	1288737.3355
366	DRIVEWAY RAMP TOP	464.213	543654.9596	1288727.3919
365	ROADWAY FLOWLINE	463.322	543657.0000	1288744.9723
364	ROADWAY FLOWLINE	463.585	543647.3984	1288724.6983
359	DRIVEWAY RAMP TOP	465.060	543622.2114	1288658.3682

90% DESIGN
NOT FOR CONSTRUCTION

JMT

NO.	REVISION	DATE	BY

MONTGOMERY COUNTY
DEPARTMENT OF TRANSPORTATION
GAITHERSBURG, MARYLAND

RECOMMENDED FOR APPROVAL

Chief, Design Section — Date

APPROVED

Chief, Division of Transportation Engineering — Date

Designed by: ADH Drawn by: TMB Checked by: JJR

DT-08
DRIVEWAY & PEDESTRIAN RAMP DETAILS
BOWIE MILL ROAD BIKEWAY

M-NCPPC PERMIT NO. MR2023016 SHA TRACKING NO. 24APMO039XX

0 30' 60'

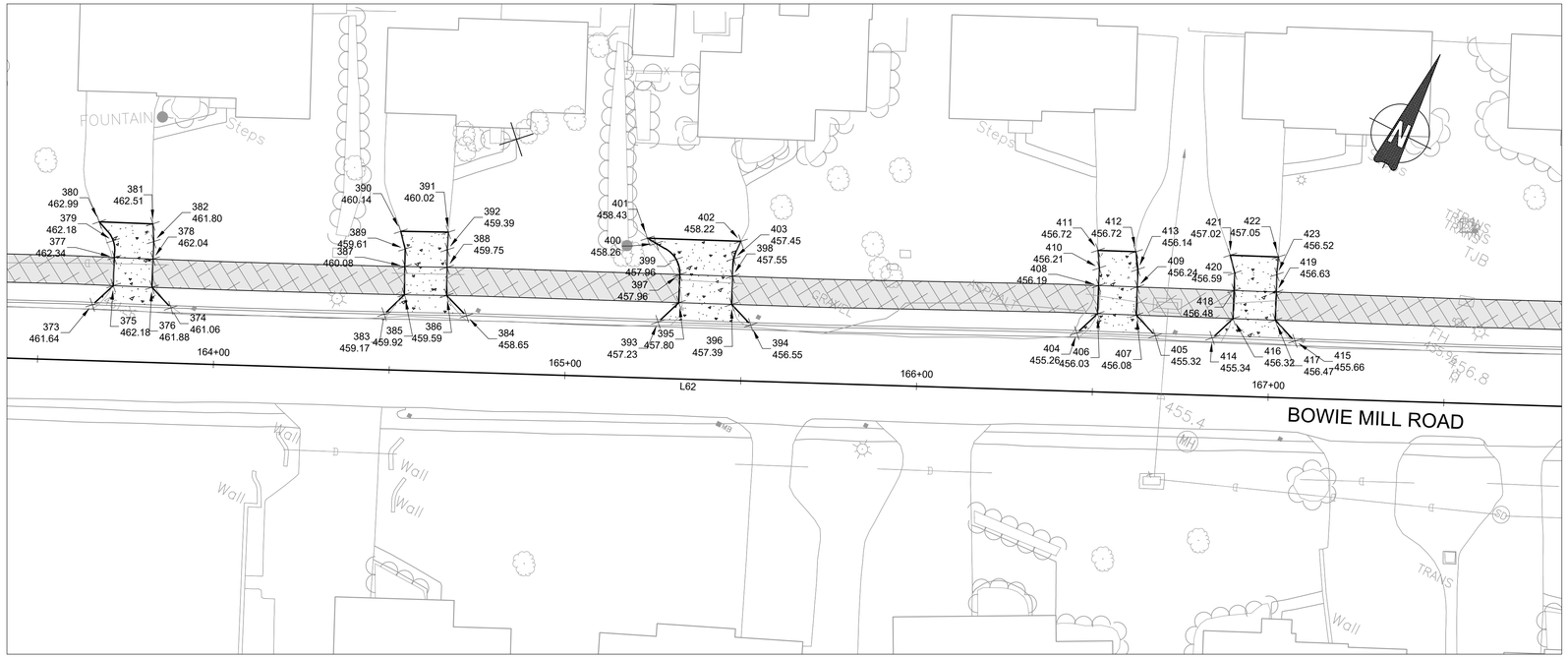
SCALE: 1"=30'

DATE: APRIL 2025

Project No. : 502108

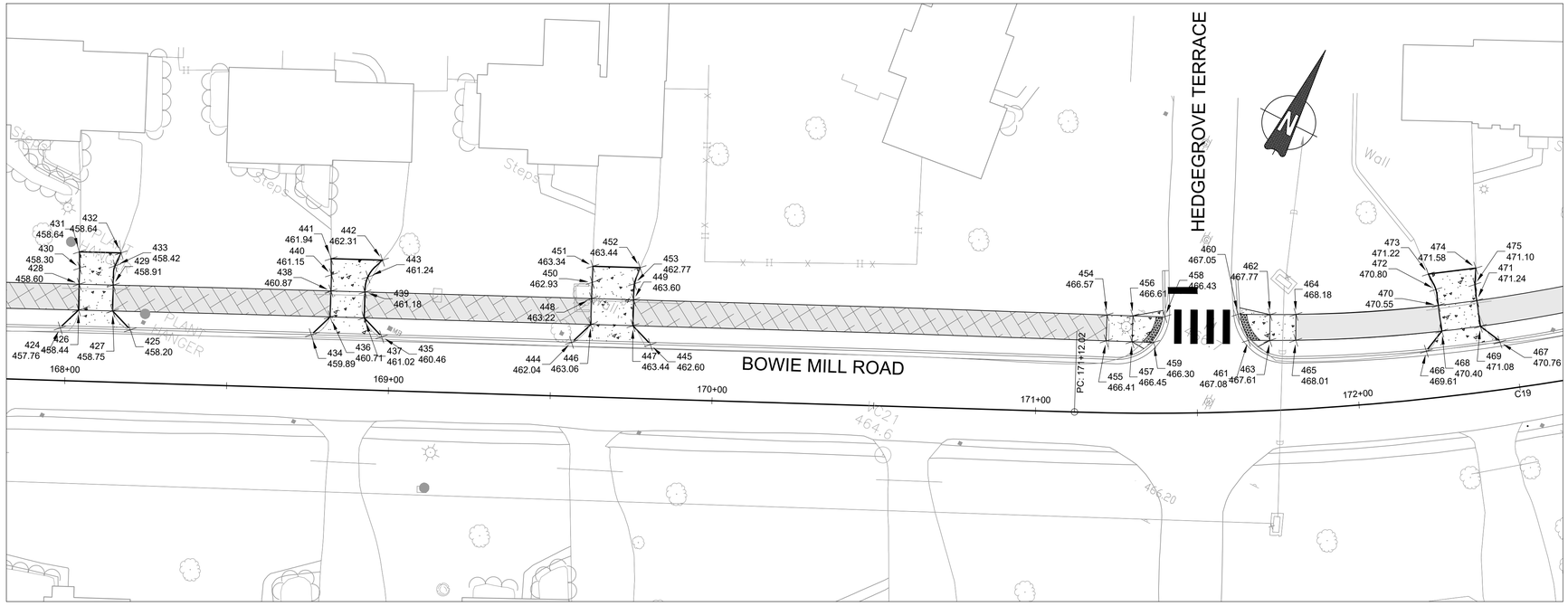
Sheet 91 of 393

FILE NAME: C:\pwworking\jmt\d0642115\pDT_Bowie Mill Rd Ramp Details.dwg LAYOUT NAME: DT-09 PLOTTED: Monday, April 07, 2025 - 2:44pm USER: AHavener



Point Table				
Point #	Raw Description	Elevation	Northing	Easting
382	TIE TO EXISTING	461.796	543706.9246	1288807.6105
381	TIE TO EXISTING	462.510	543711.2818	1288805.1171
380	TIE TO EXISTING	462.988	543704.9176	1288791.2403
379	TIE TO EXISTING	462.180	543701.8994	1288797.1917
378	SIDEWALK CONNECTION	462.036	543702.3797	1288809.6948
377	SIDEWALK CONNECTION	462.335	543697.7942	1288799.6962
376	DRIVEWAY RAMP TOP	461.876	543695.1080	1288813.0298
375	DRIVEWAY RAMP TOP	462.175	543690.5370	1288803.0245
374	ROADWAY FLOWLINE	461.064	543692.2929	1288820.4903
373	ROADWAY FLOWLINE	461.643	543683.0017	1288800.1522
401	TIE TO EXISTING	458.426	543771.1974	1288932.3730
400	TIE TO EXISTING	458.259	543771.0156	1288935.2829
392	TIE TO EXISTING	459.393	543742.5832	1288883.1423
391	TIE TO EXISTING	460.017	543747.1588	1288881.1191
390	TIE TO EXISTING	460.138	543741.2642	1288868.9342
389	TIE TO EXISTING	459.614	543737.3609	1288872.3471
388	SIDEWALK CONNECTION	459.753	543738.0857	1288885.3269
387	SIDEWALK CONNECTION	460.081	543732.8599	1288874.5245
386	DRIVEWAY RAMP TOP	459.593	543730.8897	1288888.8222
385	DRIVEWAY RAMP TOP	459.920	543725.6638	1288878.0198
384	ROADWAY FLOWLINE	458.654	543728.2978	1288896.4605
383	ROADWAY FLOWLINE	459.168	543718.0978	1288875.3764
403	TIE TO EXISTING	457.450	543777.0784	1288956.8805
402	TIE TO EXISTING	458.220	543782.4382	1288956.4732
399	TIE TO EXISTING	457.963	543769.5257	1288942.3665
398	SIDEWALK CONNECTION	457.547	543772.5103	1288958.8451
397	SIDEWALK CONNECTION	457.955	543766.1697	1288945.2511
396	DRIVEWAY RAMP TOP	457.387	543765.2601	1288962.2267
395	DRIVEWAY RAMP TOP	457.795	543758.9196	1288948.6327
394	ROADWAY FLOWLINE	456.548	543762.5060	1288969.7426

Point Table				
Point #	Raw Description	Elevation	Northing	Easting
393	ROADWAY FLOWLINE	457.225	543751.3534	1288945.8317
423	TIE TO EXISTING	456.517	543842.9193	1289096.6774
422	TIE TO EXISTING	457.049	543847.5710	1289094.8244
421	TIE TO EXISTING	457.015	543841.8144	1289082.3574
420	TIE TO EXISTING	456.594	543837.8888	1289085.7827
419	SIDEWALK CONNECTION	456.630	543838.3798	1289098.7734
418	SIDEWALK CONNECTION	456.480	543833.3493	1289087.8788
417	DRIVEWAY RAMP TOP	456.470	543831.1167	1289102.1271
416	DRIVEWAY RAMP TOP	456.320	543826.0862	1289091.2325
415	ROADWAY FLOWLINE	455.665	543828.4112	1289109.8003
414	ROADWAY FLOWLINE	455.338	543818.5276	1289088.3952
413	TIE TO EXISTING	456.137	543826.3457	1289060.7839
412	TIE TO EXISTING	456.723	543830.5619	1289057.9876
411	TIE TO EXISTING	456.724	543826.0416	1289048.1980
410	TIE TO EXISTING	456.212	543821.7344	1289050.7971
409	SIDEWALK CONNECTION	456.237	543821.8063	1289062.8800
408	SIDEWALK CONNECTION	456.186	543817.1950	1289052.8932
407	DRIVEWAY RAMP TOP	456.077	543814.5432	1289066.2337
406	DRIVEWAY RAMP TOP	456.026	543809.9318	1289056.2469
405	ROADWAY FLOWLINE	455.324	543811.7371	1289073.6890
404	ROADWAY FLOWLINE	455.255	543802.3904	1289053.4470



Point Table				
Point #	Raw Description	Elevation	Northing	Easting
453	TIE TO EXISTING	462.770	543959.3390	1289344.1903
452	TIE TO EXISTING	463.437	543964.5634	1289343.4927
451	TIE TO EXISTING	463.340	543958.3367	1289330.2667
450	TIE TO EXISTING	462.928	543953.8040	1289332.3510
449	SIDEWALK CONNECTION	463.602	543954.7877	1289346.2055
448	SIDEWALK CONNECTION	463.222	543949.2504	1289334.4438
447	DRIVEWAY TOP RAMP	463.442	543947.5498	1289349.6131
446	DRIVEWAY TOP RAMP	463.062	543942.0124	1289337.8514
445	ROADWAY FLOWLINE	462.605	543944.7943	1289357.0786
444	ROADWAY FLOWLINE	462.038	543934.4088	1289335.0193
443	TIE TO EXISTING	461.238	543923.9746	1289269.8005
442	TIE TO EXISTING	462.306	543930.6547	1289271.4688
441	TIE TO EXISTING	461.944	543923.8818	1289257.0829
440	TIE TO EXISTING	461.153	543919.4677	1289259.4454
439	SIDEWALK CONNECTION	461.176	543919.4164	1289271.0750
438	SIDEWALK CONNECTION	460.870	543914.9439	1289261.5751
437	DRIVEWAY RAMP TOP	461.016	543912.1785	1289274.4826
436	DRIVEWAY RAMP TOP	460.710	543907.7060	1289264.9827
435	ROADWAY FLOWLINE	460.465	543909.4202	1289281.9422
434	ROADWAY FLOWLINE	459.894	543900.1528	1289262.2579
433		458.422	543891.7347	1289198.5795
432		458.643	543896.1392	1289198.4161
431		458.639	543890.6149	1289186.7836
430		458.305	543886.1942	1289189.1304
429	SIDEWALK CONNECTION	458.905	543886.1820	1289200.7601
428	SIDEWALK CONNECTION	458.598	543881.6776	1289191.2754

Point Table				
Point #	Raw Description	Elevation	Northing	Easting
427	DRIVEWAY RAMP TOP	458.745	543878.9555	1289204.1920
426	DRIVEWAY RAMP TOP	458.438	543874.4512	1289194.7072
425	ROADWAY FLOWLINE	458.196	543876.2450	1289211.7087
424	ROADWAY FLOWLINE	457.757	543866.9436	1289192.1228
475	TIE TO EXISTING	471.101	544076.4790	1289575.8506
474	TIE TO EXISTING	471.580	544081.1352	1289573.8541
473	TIE TO EXISTING	471.219	544072.8663	1289561.5705
472	TIE TO EXISTING	470.795	544069.6445	1289565.7890
471	SIDEWALK CONNECTION	471.243	544072.3101	1289578.6517
470	SIDEWALK CONNECTION	470.552	544065.6085	1289568.6963
469	DRIVEWAY RAMP TOP	471.084	544065.7318	1289583.2043
468	DRIVEWAY RAMP TOP	470.404	544059.0280	1289573.2503
467	ROADWAY FLOWLINE	470.762	544064.1232	1289590.7916
466	ROADWAY FLOWLINE	469.614	544051.3427	1289571.8109
465	TOP OF LANDING	468.006	544036.0921	1289534.3128
464	TOP OF LANDING	468.176	544043.2575	1289530.7503
463	TOP OF RAMP	467.605	544032.4159	1289527.1846
462	TOP OF RAMP	467.770	544039.5796	1289523.6447
461	BOTTOM OF RAMP	467.084	544029.4308	1289521.2374
460	BOTTOM OF RAMP	467.052	544035.1814	1289514.7379
459	BOTTOM OF RAMP	466.297	544015.6334	1289495.4462
458	BOTTOM OF RAMP	466.435	544024.3531	1289494.9450
457	TOP OF RAMP	466.447	544012.8248	1289489.3806
456	TOP OF RAMP	466.607	544020.0843	1289486.0191
455	TOP OF LANDING	466.407	544009.4633	1289482.1211
454	TOP OF LANDING	466.567	544016.7228	1289478.7596

90% DESIGN
NOT FOR CONSTRUCTION

NO.	REVISION	DATE	BY

MONTGOMERY COUNTY
DEPARTMENT OF TRANSPORTATION
GAITHERSBURG, MARYLAND

RECOMMENDED FOR APPROVAL

Chief, Design Section — Date

APPROVED

Chief, Division of Transportation Engineering — Date

Designed by: ADH Drawn by: TMB Checked by: JJR

DT-09
DRIVEWAY & PEDESTRIAN RAMP DETAILS
BOWIE MILL ROAD
BIKEWAY

M-NCPPC PERMIT NO. MR2023016 SHA TRACKING NO. 24APMO039XX

0 30' 60'

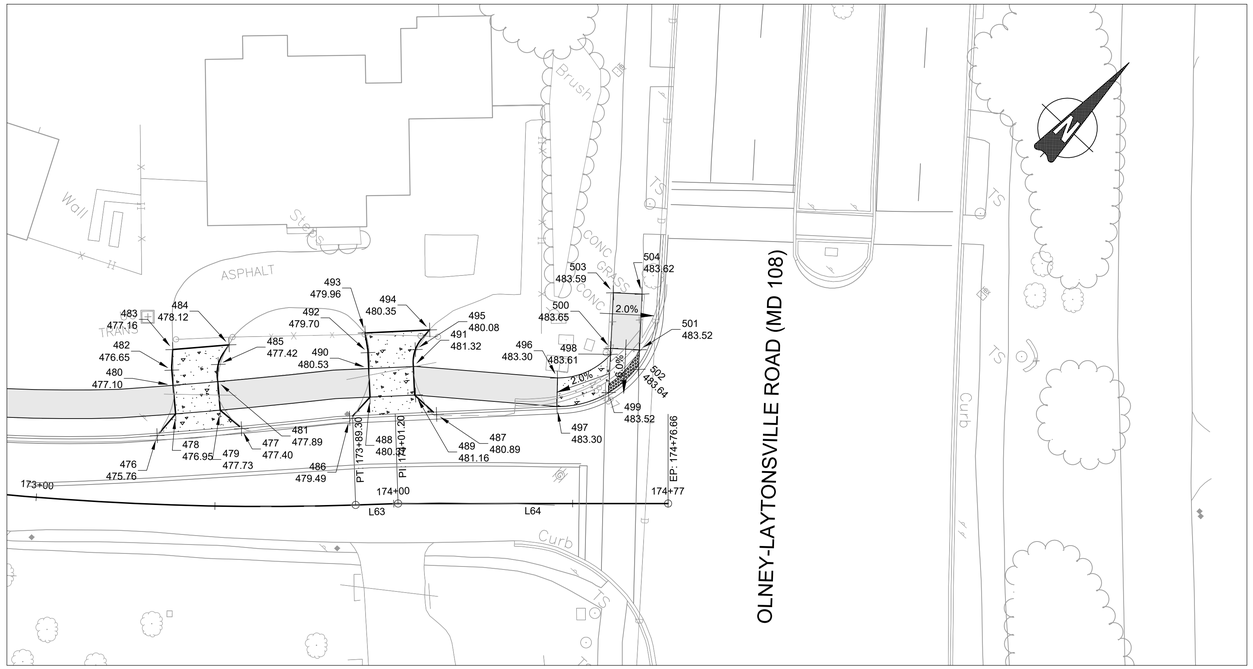
SCALE: 1"=30'

DATE: APRIL 2025

Project No. : 502108

Sheet 92 of 393

FILE NAME: C:\pwworking\jmt\d0642115\pDT_Bowie Mill Rd Ramp Details.dwg LAYOUT NAME: DT-10 PLOTTED: Monday, April 07, 2025 - 2:45pm USER: AHavener



Point Table				
Point #	Raw Description	Elevation	Northing	Easting
503	TIE TO EXISTING	483.591	544236.6921	1289720.8017
502	BOTTOM OF RAMP	483.638	544225.8475	1289740.5561
500	TOP OF RAMP	483.647	544224.8342	1289730.9504
499	BOTTOM OF LANDING	483.516	544215.4511	1289738.9809
498	BOTTOM OF LANDING	483.409	544223.5786	1289732.0250
497	TOP OF LANDING	482.934	544202.6994	1289731.1205
496	TOP OF LANDING	483.265	544208.6343	1289725.7279
495	TIE TO EXISTING	480.075	544187.1468	1289691.4092
494	TIE TO EXISTING	480.350	544193.9064	1289690.5558
493	TIE TO EXISTING	479.963	544180.9403	1289677.9825
492	TIE TO EXISTING	479.701	544177.4688	1289682.3333
491	SIDEWALK CONNECTION	481.321	544183.3378	1289694.2369
490	SIDEWALK CONNECTION	480.527	544174.3641	1289685.5350
489	DRIVEWAY RAMP TOP	481.164	544177.9392	1289700.1456
488	DRIVEWAY RAMP TOP	480.368	544168.7949	1289691.2782
487	ROADWAY FLOWLINE	480.887	544178.0324	1289708.1340
486	ROADWAY FLOWLINE	479.491	544160.5786	1289691.2088
485	TIE TO EXISTING	477.417	544146.3848	1289654.1473
484	TIE TO EXISTING	478.125	544152.4249	1289652.5903
483	TIE TO EXISTING	477.162	544140.6987	1289642.0296
482	TIE TO EXISTING	476.646	544136.3217	1289645.7961
481	SIDEWALK CONNECTION	477.891	544142.7512	1289657.3358
480	SIDEWALK CONNECTION	477.102	544133.4627	1289648.9705
479	DRIVEWAY RAMP TOP	477.731	544137.4263	1289663.3062
478	DRIVEWAY RAMP TOP	476.947	544128.1377	1289654.9412
477	ROADWAY FLOWLINE	477.403	544137.7331	1289671.1619
476	ROADWAY FLOWLINE	475.760	544120.1715	1289655.3446
504	TIE TO EXISTING	483.620	544241.8940	1289726.8797
501	TOP OF RAMP	483.525	544230.0360	1289737.0283

90% DESIGN
NOT FOR CONSTRUCTION

NO.	REVISION	DATE	BY

MONTGOMERY COUNTY
DEPARTMENT OF TRANSPORTATION
GAITHERSBURG, MARYLAND

RECOMMENDED FOR APPROVAL

Chief, Design Section — Date

APPROVED

Chief, Division of Transportation Engineering — Date

Designed by: ADH Drawn by: TMB Checked by: JJR

DT-10
DRIVEWAY & PEDESTRIAN RAMP DETAILS
BOWIE MILL ROAD
BIKEWAY

M-NCPPC PERMIT NO. MR2023016 SHA TRACKING NO. 24APMO039XX

0 30' 60'

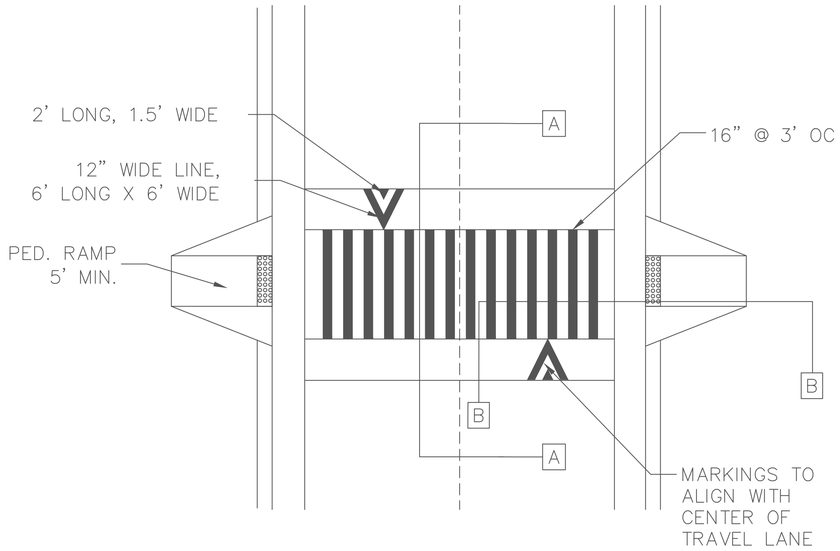
SCALE: 1"=30'

DATE: APRIL 2025

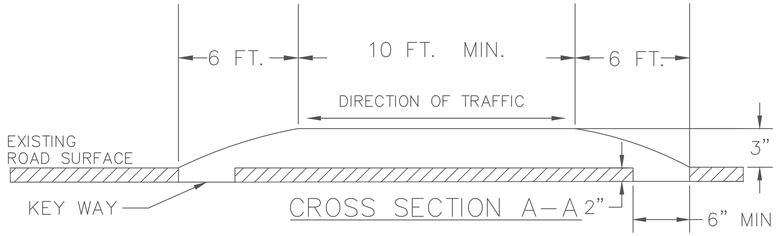
Project No. : 502108

Sheet 93 of 393

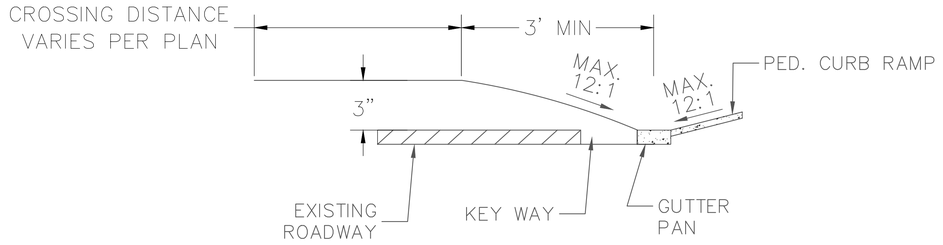
FILE NAME: C:\pwworking\jmt\d0642115\pDT_Bowie Mill Rd Ramp Details.dwg LAYOUT NAME: DT-11 PLOTTED: Monday, April 07, 2025 - 2:46pm USER: AHavener



RAISED CROSSWALK DETAIL

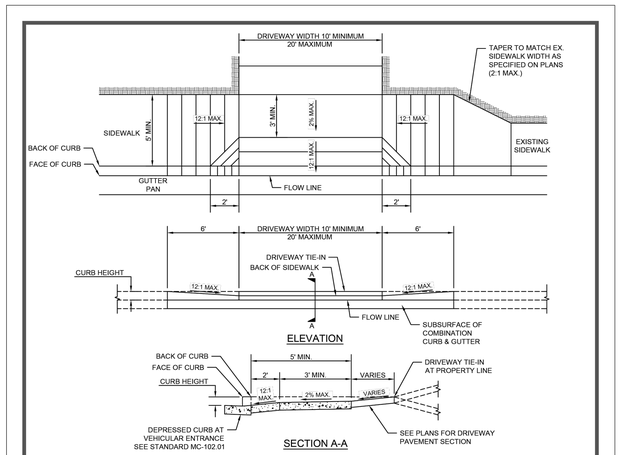


CROSS SECTION A–A



CROSS SECTION B–B

CROSS SECTION IS MIRRORED AT ROAD CENTERLINE
GUTTER LINE REMAINS DEPRESSED



GENERAL NOTES:

1. REFER TO MDOT SHA SPECIFICATIONS FOR MATERIALS AND METHOD OF CONSTRUCTION.
2. CONCRETE DRIVEWAY SHALL BE 7" MDOT SHA STANDARD CONCRETE PAVEMENT MIX NO. 7.
3. WHERE 5' SIDEWALK CANNOT BE PROVIDED, A DESIGN WAIVER MUST BE REQUESTED.
4. NO TRAVERSABLE SLOPE ON THE RAMP OR SIDEWALK SHALL EXCEED 12:1 IN THE DIRECTION OF PEDESTRIAN TRAVEL, OR 48:1 PERPENDICULAR TO THE DIRECTION OF PEDESTRIAN TRAVEL.
5. SCORE THE CONCRETE TO A DEPTH OF ½ THE SLAB THICKNESS TO PROVIDE TRANSVERSE JOINTS AT 5-FOOT INTERVALS.
6. EXPANSION JOINT MATERIAL SHALL BE ½ INCH BITUMINOUS BLACK FIBER EXPANSION MATERIAL, TRIMMED AND SEALED WITH NON-STAINING TWO-COMPONENT POLYSULFIDE OR POLYURETHANE ELASTOMETRIC TYPE SEALANT COMPLYING WITH ASTM-C920.
7. TRANSITION PANELS TO TIE INTO EXISTING SIDEWALK MUST BE A MINIMUM OF 5' IN LENGTH.
8. DRIVEWAY AND DRIVEWAY APRON SHALL BE MAINTAINED BY PROPERTY OWNER.

APPROVED _____ DATE

DIRECTOR, DEPARTMENT OF TRANSPORTATION

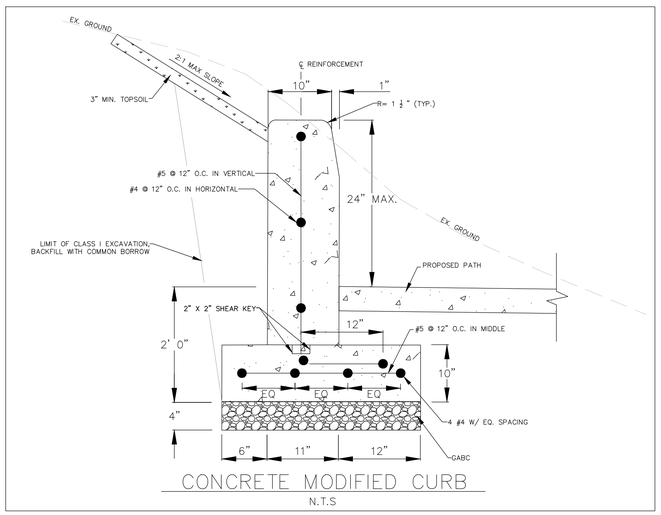
CHIEF, DIVISION OF TRANSPORTATION ENGINEERING

REVISED

MONTGOMERY COUNTY
DEPARTMENT OF TRANSPORTATION

DRIVEWAY ENTRANCE
WITHOUT BUFFER

STANDARD NO. MC-304.01



CONCRETE MODIFIED CURB

N.T.S

90% DESIGN
NOT FOR CONSTRUCTION

NO.	REVISION	DATE	BY

MONTGOMERY COUNTY
DEPARTMENT OF TRANSPORTATION
GAITHERSBURG, MARYLAND

RECOMMENDED FOR APPROVAL

Chief, Design Section _____ Date

APPROVED

Chief, Division of Transportation Engineering _____ Date

Designed by: ADH Drawn by: TMB Checked by: JJR

DT-11
DRIVEWAY & PEDESTRIAN RAMP DETAILS
BOWIE MILL ROAD
BIKEWAY

M-NCPPC PERMIT NO. MR2023016 SHA TRACKING NO. 24APMO039XX

0 30' 60'

SCALE: 1"=30'

DATE: APRIL 2025

Project No. : 502108

Sheet 93A of 393

FILE NAME: C:\pwworking\jmt\d0642115\pDT_Bowie Mill Rd Ramp Details.dwg LAYOUT NAME: DT-01 PLOTTED: Monday, April 07, 2025 - 2:46pm USER: AHavener