CRITERIA

THE CONTRACTOR SHALL BE GOVERNED BY THE STANDARDS AND REQUIREMENTS OF THE FOLLOWING PUBLICATIONS, EXCEPT AS MODIFIED BY THE SPECIAL PROVISIONS OF THIS CONTRACT: <u>DESIGN</u>

MDOT SHA — "MARYLAND MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES", 2011 EDITION

AND SUBSEQUENT REVISIONS. (MdMUTCD)

A A S H T O - "HIGHWAY SAFETY DESIGN AND OPERATIONS GUIDE" -1997

A A S H T O - "STANDARD SPECIFICATIONS FOR STRUCTURAL SUPPORTS FOR HIGHWAY SIGNS LUMINAIRES AND TRAFFIC SIGNALS", 2001 EDITION

(CATEGORY II FOR ALL OVERHEAD AND CANTILEVER SIGN STRUCTURES).

MATERIALS AND CONSTRUCTION

MDOT SHA - "STANDARD SPECIFICATIONS FOR CONSTRUCTION & MATERIALS", 2017 EDITION AND SUBSEQUENT SUPPLEMENTS.

DESIGN WIND

100 MPH - WOOD SUPPORTS 10 YEAR RECURRENCE INTERVAL 100 MPH - GROUND MOUNT SIGN STEEL SUPPORTS 10 YEAR RECURRENCE INTERVAL ALL DISTRICTS 100 MPH - OVERHEAD AND CANTILEVER STRUCTURES 50 YEAR RECURRENCE INTERVAL

DESIGN STRESS

SOIL BEARING PRESSURE -S = 3,000 P.S.f. (ASSUMED) SEE MATERIAL & CONSTRUCTION ABOVE AND SPECIAL PROVISIONS FOR DESIGN STRESSES FOR STRUCTURAL STEEL, ALUMINUM, REINFORCING STEEL AND CONCRETE.

CHAMFER

ALL EXPOSED EDGES OF CONCRETE SHALL HAVE A 3/4" X 3/4" CHAMFER.

CLASSIFICATION OF SIGNS

SIGNS ARE DIVIDED INTO TWO (2) GENERAL CATEGORIES.

1. GUIDE SIGNS A) STRUCTURAL TYPES OH — OVERHEAD C — CANTILEVER

B) PANELS MATERIAL — EXTRUDED ALUMINUM COPY - DIRECT APPLIED 1) HIGH INTENSITY (NEW SIGNS AND

GM - GROUND MOUNT, BREAKAWAY OR NON-BREAKWAY BM - BRIDGE MOUNTED

REVISIONS TO EXISTING SIGNS)

2. STANDARD SIGNS (REGULATORY, WARNING, ETC.) A) STRUCTURAL TYPES

B) PANELS WOOD SUPPORTS MATERIAL - SHEET ALUMINUM SQUARE TUBE COPY - DIRECT APPLIED

IDENTIFICATION OF SIGNS AND PANELS

GUIDE SIGNS

EACH GUIDE SIGN IS IDENTIFIED BY A SIGN NUMBER ON THE PLANS AND IN THE TABULATIONS. (GM-1, GM-2, GM-3, etc)

SIGNS ON STRUCTURES ARE IDENTIFIED WITH A NUMBER AND WHERE VARIATIONS OCCUR. A LOWER CASE LETTER. (OH-1a, OH-1b, OH-1c)

STANDARD SIGNS

STANDARD SIGNS ARE IDENTIFIED BY PANEL NUMBERS AND ARE CLASSIFIED AS FOLLOWS R - REGULATORY

W - WARNING

M - ROUTE MARKERS AND ACCESSORIES

D - DESTINATION AND MILEAGE PANELS

S - SCHOOL

PANELS SHALL BE DESIGNATED TO AGREE WITH MARYLAND STANDARD SIGN BOOK. EACH STANDARD SIGN IS IDENTIFIED FIRST BY THE SHEET NUMBER, THEN BY THE NUMERICAL ORDER OF THE SIGN AS IT APPEARS ON THE PLAN. FOR EXAMPLE SHEET SN 2.1-101,102,103, ETC. SHEET SN 2.2-201,202,203,ETC.

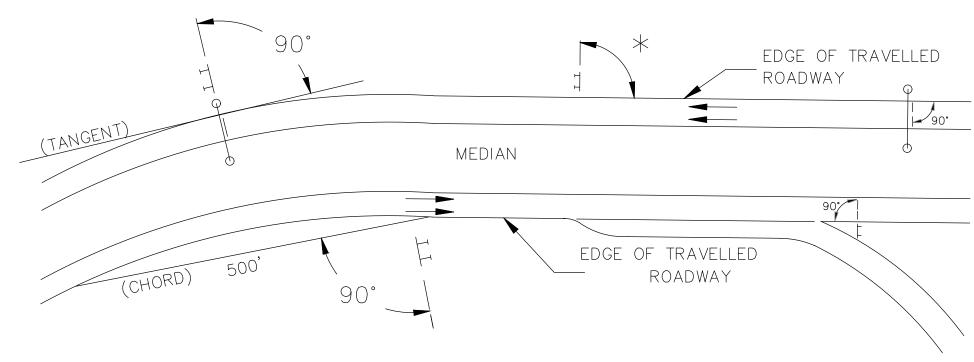
PANEL LAYOUT AND ALPHABETS

1. GUIDE SIGN PANEL LAYOUTS ARE BASED ON THE A.A.S.H.T.O. MANUALS NOTED ABOVE. 2. STANDARD SIGN PANEL LAYOUTS ARE BASED ON THE MdMUTCD WITH SPECIFICATIONS DETAILED IN THE MARYLAND STATE HIGHWAY ADMINISTRATION PUBLICATION, "STANDARD SIGN BOOK", AVAILABLE ONLINE @ https:/www.marylandroads.com/businesswithsha/ bizStdsSpecs/desManualStdPub/publicationsonline/oots/internet_signbook.asp

REFLECTORIZATION

BACKGROUNDS, BORDERS, TEXTS AND ALL OTHER ELEMENTS OF SIGN PANELS SHALL BE REFLECTORIZED EXCEPT WHERE NOTED. REFER TO PROJECT REQUIREMENTS FOR MORE DETAIL.

ORIENTATION OF SIGN FACES



UNDER 30 FEET FROM TRAVELLED ROADWAY TO NEAR EDGE OF SIGN - 93^ AWAY * FROM THE ROAD TO AVOID SPECULAR REFLECTION AS INDICATED IN 813.03 OF THE MARYLAND STANDARD SPECIFICATIONS FOR CONSTRUCTION AND MATERIALS.

OVER 30 FEET FROM TRAVELLED ROADWAY TO NEAR EDGE OF SIGN - 90^

SIGN LOCATIONS

- 1. GUIDE SIGNS ARE LOCATED ON THE PLANS BY DIMENSION TO SURVEY STATIONS, OR WHEN NECESSARY. TO IDENTIFIABLE PHYSICAL FEATURES.
- 2. ALL CHANGES IN THE LOCATIONS OF SIGNS AS SHOWN ON THE PLAN SHALL HAVE THE PRIOR APPROVAL OF THE ENGINEER.

EXISTING UTILITIES

THE ENGINEER DOES NOT WARRANT OR GUARANTEE THE ACCURACY OR COMPLETENESS OF UTILITY INFORMATION SHOWN ON THE PLAN. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO LOCATE AND PROTECT ALL EXISTING FACILITIES WHICH MIGHT BE AFFECTED BY THIS WORK OR HIS OPERATION.

ROADSIDE SIGNS

1. VERTICAL ALIGNMENT

POSITION PANEL SO FACE IS PLUMB.

2. HORIZONTAL ALIGNMENT (SEE DIAGRAM ABOVE)

NORMAL EDGE OF THE MAINLINE ROADWAY.

A) ON STRAIGHT ROADWAY SECTIONS. ANGLE OF SIGN FACE TO ROADWAY VARIES WITH DISTANCE FROM TRAVELLED ROADWAY TO NEAR EDGE OF SIGN - SEE DIAGRAM.

B) ON THE INSIDE OF HORIZONTAL CURVES, POSITION SIGN SO FACE OF PANEL MAKES AN ANGLE OF 90° WITH A CHORD BETWEEN A POINT ON NEAR EDGE OF PAVEMENT AT SIGN LOCATION AND A POINT ON EDGE OF PAVEMENT 500' IN ADVANCE OF SIGN.

C) ON THE OUTSIDE OF HORIZONTAL CURVES, POSITION SIGN SO FACE OF PANEL IS AT RIGHT ANGLES TO THE TANGENT OF THE CURVE AT THE SIGN LOCATION. D) POSITIONING OF SIGNS AT GORES AND RAMP SEPARATIONS IS REFERRED TO THE

OVERHEAD SIGNS

1. VERTICAL ALIGNMENT

POSITION PANELS FOR ALL OVERHEAD STRUCTURES SO THAT PANEL FACE IS PLUMB. 2. OVERHEAD SIGN STRUCTURES SHALL NOT BE ERECTED WITHOUT ATTACHING LUMINAIRES,

SUPPORTS, AND/OR SIGNS. 3. HORIZONTAL ALIGNMENT

A) POSITION ALL OVERHEAD SIGNS SO THAT THE FACE OF THE PANEL IS AT RIGHT ANGLES TO THE NORMAL EDGE OF ROADWAY, IF ON A STRAIGHT ROADWAY SECTION.

B) POSITION ALL OVERHEAD SIGNS SO THAT THE FACE OF THE PANEL IS AT RIGHT ANGLES TO THE TANGENT OF THE CURVE AT SIGN LOCATION, IF ON A HORIZONTAL CURVE. C) POSITIONING OF SIGNS AT GORES AND RAMP SEPARATIONS IS REFERRED TO THE NORMAL

EDGE OF THE MAINLINE ROADWAY. 4. VERTICAL CLEARANCE

A) OVERHEAD SIGNS SHALL HAVE A MINIMUM VERTICAL CLEARANCE OF 17'-9" FROM ROADWAY TO THE BOTTOM OF LIGHT FIXTURES. ALL LIGHT FIXTURES ARE TO BE AT THE SAME ELEVATION. B) IF THE CONTRACTOR CANNOT OBTAIN 17'-9" (SEE 3A) CLEARANCE, HE IS TO CEASE WORK AND CONTACT THE PROJECT ENGINEER FOR FURTHER INSTRUCTIONS. THE PROJECT ENGINEER

MAY CONTACT THE TRAFFIC ENGINEERING DESIGN DIVISION FOR ASSISTANCE. C) ON ALL OVERHEAD SIGNS, THE MINIMUM CLEARANCE TO BOTTOM OF SIGN: 20'-9".

PROJECT REQUIREMENTS

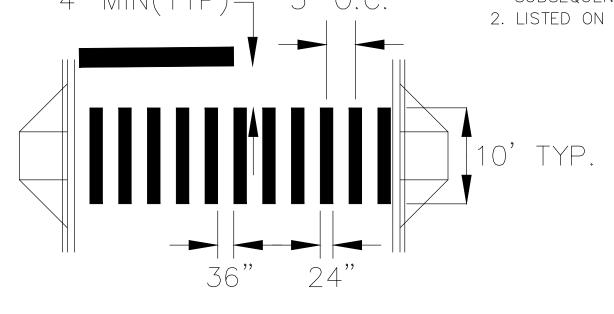
ALL NEW SIGNS ON THIS PROJECT SHALL BE FABRICATED FROM SHEETING WHICH MEETS ALL OF THE FOLLOWING REQUIREMENTS, UNLESS OTHERWISE SPECIFIED IN THE CONTRACT DOCUMENTS, OR AS DIRECTED BY THE ENGINEER:

- 1. SHEETING SHALL MEET THE REQUIREMENTS OF SECTIONS 813 AND 950.03 OF MDSHA'S STANDARD SPECIFICATIONS FOR CONSTRUCTION AND MATERIALS (JULY 2008) AND SUBSEQUENT REVISIONS
- 2. LISTED ON MDSHA OFFICE OF TRAFFIC AND SAFETY'S QUALIFIED PRODUCTS LIST (QPL)

PROJECT REQUIREMENTS CONT'D

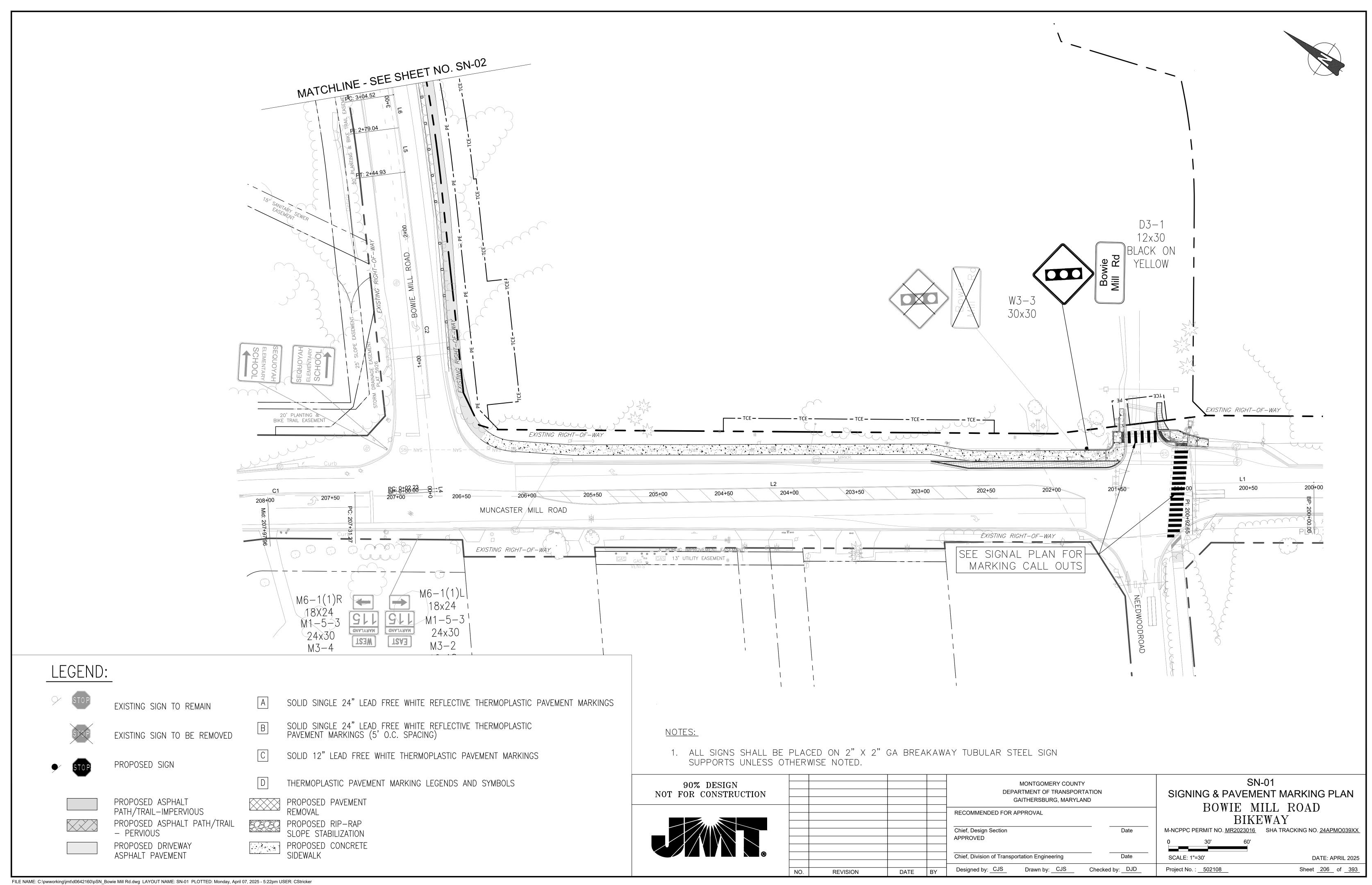
- 3. THE FOLLOWING TYPES OF SHEETING SHALL BE USED FOR THE SPECIFIED SIGN CLASSIFICATIONS
- A) GUIDE, EXIT GORE, AND GENERAL INFORMATION SIGNS-RETRORFFLECTIVE SHEETING FOR GUIDE SIGNS, EXIT GORE, AND GENERAL INFORMATION (INCLUDES WHITE ON GREEN, WHITE ON BLUE, WHITE ON BROWN AND THE REVERSE OF THESE COLORS) SHALL MEET OR EXCEED THE REQUIREMENTS FOR ASTM TYPE IX LEGEND ON ASTM TYPE IX BACKGROUND. REGULATORY AND WARNING MESSAGES WITHIN GUIDE SIGNS SHALL BE NON-REFLECTIVE BLACK LEGEND ON BACKGROUND SHEETING WHICH MEETS OR EXCEEDS THE REQUIREMENTS FOR ASTM TYPE IX SHEETING.
- B) WARNING SIGNS RETROREFLECTIVE SHEETING FOR BLACK ON FLUORESCENT YELLOW WARNING SIGNS SHALL BE NON-REFLECTIVE BLACK LEGEND ON BACKGROUND SHEETING WHICH MEETS OR EXCEEDS THE REQUIREMENTS FOR ASTM TYPE IX SHEETING. REGULATORY MESSAGES WITHIN WARNING SIGNS SHALL FOLLOW THE GUIDELINES FOR REGULATORY SIGNS.
- C) SCHOOL SIGNS RETROREFLECTIVE SHEETING FOR SCHOOL SIGNS (BLACK ON FLUORESCENT YELLOW AND BLACK ON FLUORESCENT YELLOW GREEN) SHALL BE NON-REFLECTIVE BLACK LEGEND ON BACKGROUND SHEETING WHICH MEETS OR EXCEEDS THE REQUIREMENTS FOR ASTM TYPE IX SHEETING. REGULATORY MESSAGES WITHIN SCHOOL SIGNS SHALL FOLLOW THE REQUIREMENTS FOR REGULATORY SIGNS.
- D) REGULATORY SIGNS FALL INTO THREE SUBCATEGORIES:
- i. "RED" REGULATORY SIGNS (STOP, YIELD, DO NOT ENTER AND WRONG WAY) RETROREFLECTIVE SHEETING FOR THESE SIGNS AND THEIR SUPPLEMENTAL PANELS (INCLUDES WHITE ON RED AND RED ON WHITE) SHALL MEET OR EXCEED THE REQUIREMENTS FOR ASTM TYPE IX SHEETING.
- ii. ALL R7 AND R8 SERIES PARKING RELATED SIGNS AND THEIR SUPPLEMENTAL PANELS, NO TRESPASSING SIGNS, AND SIGNS DIRECTED AT PEDESTRIANS AND BICYCLISTS ONLY (INCLUDES RED ON WHITE, GREEN ON WHITE, BLUE ON WHITE, BLACK ON WHITE AND THE REVERSE OF THESE COLORS) SHALL BE ASTM TYPE I LEGEND ON ASTM TYPE I BACKGROUND.
- iii. ALL OTHER REGULATORY SIGNS RETROREFLECTIVE SHEETING FOR THESE SIGNS AND THEIR SUPPLEMENTAL PANELS (INCLUDES BLACK ON WHITE) SHALL BE NON-REFLECTIVE BLACK LEGEND ON ASTM TYPE IV BACKGROUND. WHERE RED IS SPECIFIED, OR WHERE THE COLOR OF THE SIGN IS WHITE ON BLACK, THE LEGEND SHALL BE ASTM TYPE IV RETROREFLECTIVE SHEETING ON NON-REFLECTIVE BLACK BACKGROUND. WARNING MESSAGES WITHIN REGULATORY SIGNS SHALL FOLLOW THE GUIDELINES FOR WARNING SIGNS.
- E) ROUTE MARKERS -RETROREFLECTIVE SHEETING FOR ROUTE MARKERS (INCLUDES BLACK ON WHITE , GREEN ON WHITE, WHITE ON GREEN, WHITE ON RED/BLUE) SHALL MEET THE REQUIREMENTS OF GUIDE SIGNS ABOVE WHEN SPECIFIED AS THE LEGEND OF A GUIDE SIGN. RETROREFLECTIVE SHEETING FOR ALL INDEPENDENT ROUTE MARKERS AND THEIR AUXILIARY PANELS SHALL BE ASTM TYPE IV AND/OR NON-REFLECTIVE BLACK LEGEND ON ASTM TYPE IV BACKGROUND.
- F) LOGOS AND/OR GRAPHICS WITHIN SIGNS SHALL FOLLOW THE GUIDELINES FOR THE RESPECTIVE SIGN CLASSIFICATION UNLESS OTHERWISE SPECIFIED IN THE CONTRACT DOCUMENTS, OR AS DIRECTED BY THE ENGINEER.
- G) CIVIL DEFENSE SIGNS AND OTHER SIGNS NOT SPECIFICALLY FALLING INTO ONE OF THE CATEGORIES ABOVE, SHALL FOLLOW THE GUIDELINES FOR THE SIGN CLASSIFICATION THAT MOST CLOSELY MATCHES THE COLOR(S) OF THE PROPOSED SIGN.
- 4. THE FOLLOWING MINIMUM THICKNESS SHALL BE USED FOR THE APPROPRIATE WIDTH OF SHEET ALUMINUM BLANKS.

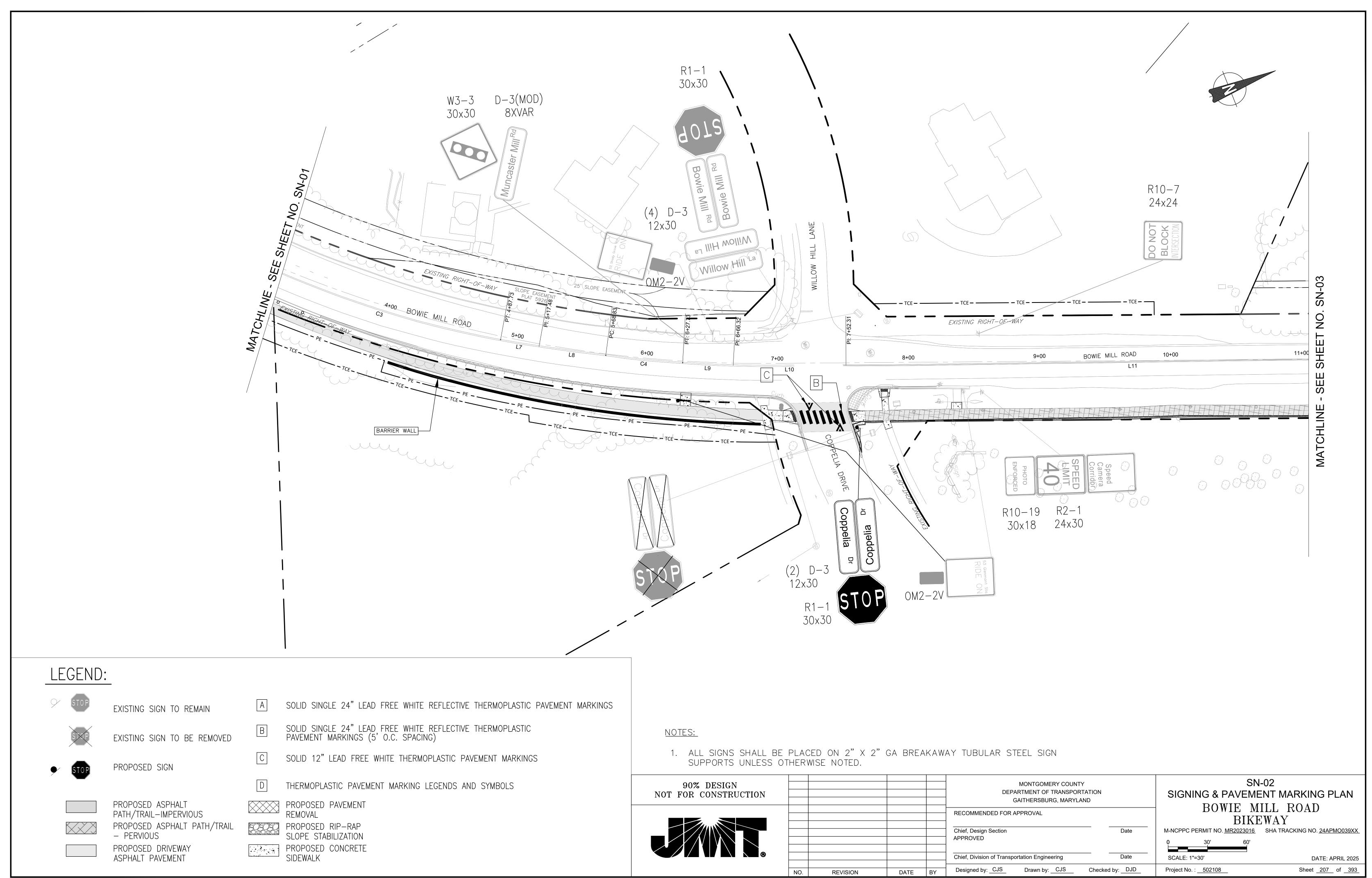
LONGEST DIMENSION MINIMUM THICKNESS UP TO 12"____ __0.040" GREATER THAN 12" TO 24" _0.063" GREATER THAN 24" TO 36" _0.080" GREATER THAN 36" TO 48" _0.100" OVER 48"_ _0.125"

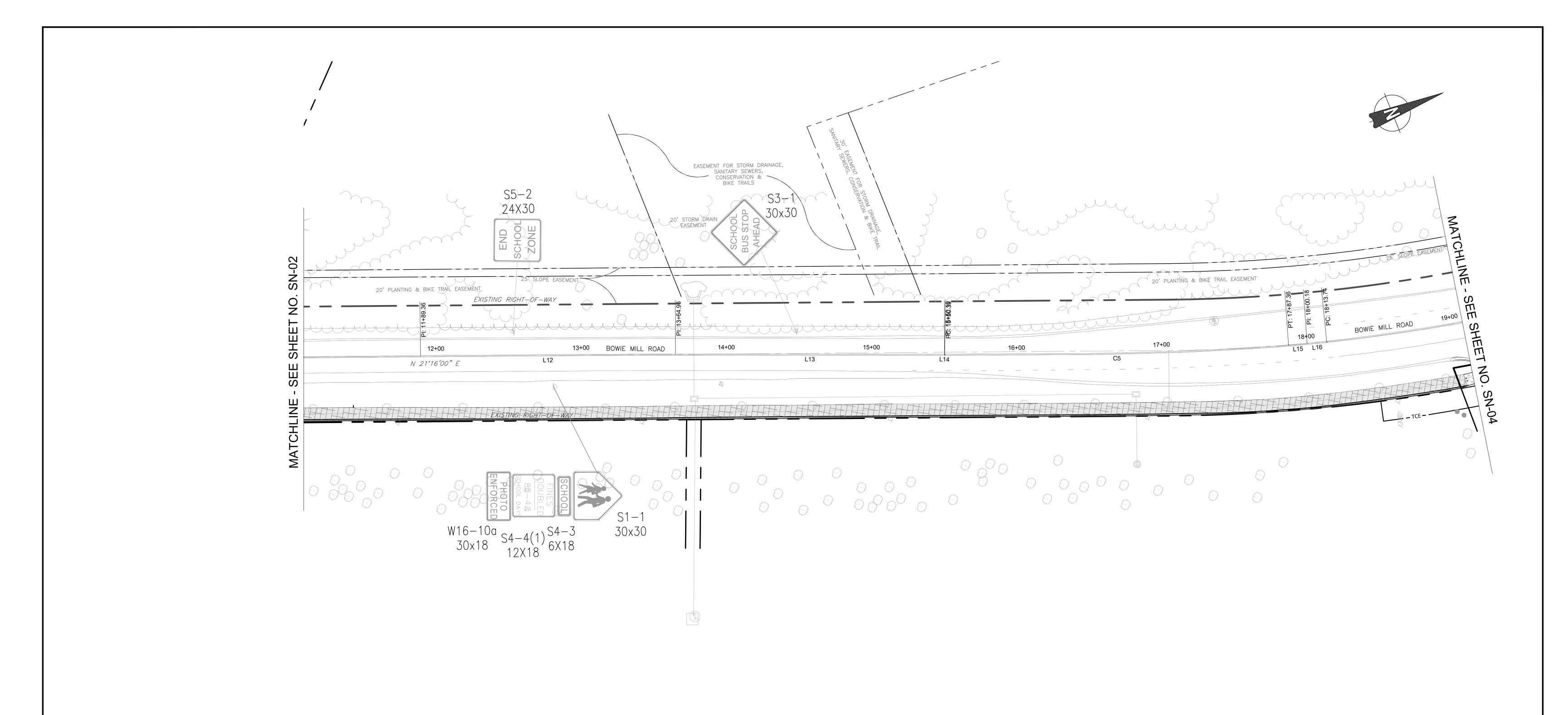


LADDER BAR CROSSWALK DETAIL

SN-00 MONTGOMERY COUNTY 90% DESIGN DEPARTMENT OF TRANSPORTATION MARKING AND SIGNING NOTES NOT FOR CONSTRUCTION GAITHERSBURG, MARYLAND BOWIE MILL ROAD RECOMMENDED FOR APPROVAL BIKEWAY Chief, Design Section M-NCPPC PERMIT NO. MR2023016 SHA TRACKING NO. 24APMO039XX APPROVED Chief, Division of Transportation Engineering Date SCALE: 1"=30' DATE: APRIL 2025 Checked by: DJD Sheet 205 of 393 Designed by: CJS Drawn by: CJS Project No. : 502108 NO. REVISION DATE BY









EXISTING SIGN TO REMAIN

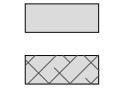


EXISTING SIGN TO BE REMOVED





PROPOSED SIGN



PROPOSED ASPHALT PATH/TRAIL-IMPERVIOUS PROPOSED ASPHALT PATH/TRAIL PERVIOUS

PROPOSED DRIVEWAY ASPHALT PAVEMENT

- SOLID SINGLE 24" LEAD FREE WHITE REFLECTIVE THERMOPLASTIC PAVEMENT MARKINGS
- SOLID SINGLE 24" LEAD FREE WHITE REFLECTIVE THERMOPLASTIC PAVEMENT MARKINGS (5' O.C. SPACING)
- SOLID 12" LEAD FREE WHITE THERMOPLASTIC PAVEMENT MARKINGS
- THERMOPLASTIC PAVEMENT MARKING LEGENDS AND SYMBOLS
- PROPOSED PAVEMENT

PROPOSED RIP-RAP SLOPE STABILIZATION

PROPOSED CONCRETE SIDEWALK

NOTES:

NOTE: NO WORK ON THIS SHEET.

1. ALL SIGNS SHALL BE PLACED ON 2" X 2" GA BREAKAWAY TUBULAR STEEL SIGN SUPPORTS UNLESS OTHERWISE NOTED.

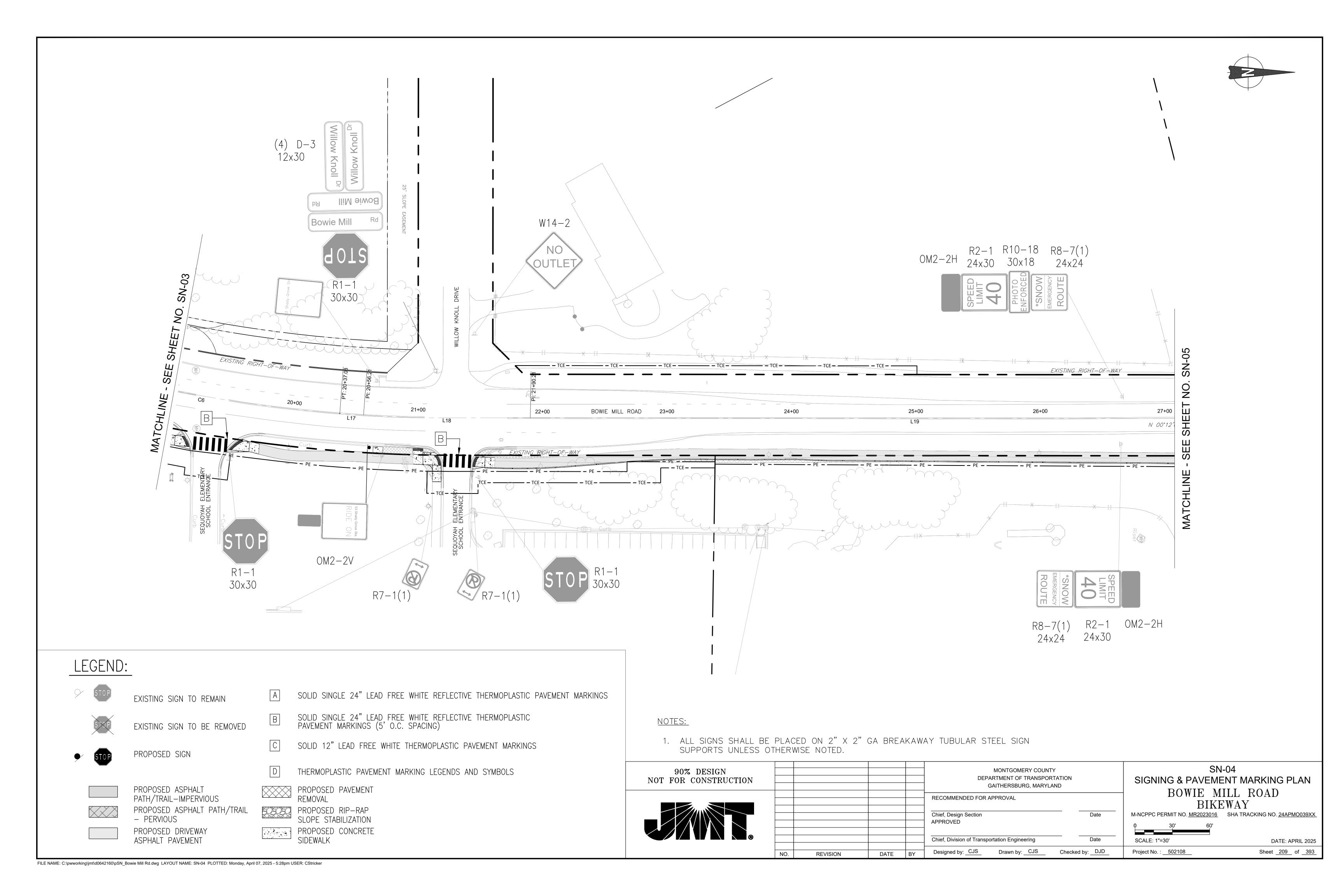
90% DESIGN NOT FOR CONSTRUCTION					MONTGOMERY COUNTY DEPARTMENT OF TRANSPORTATION GAITHERSBURG, MARYLAND
					RECOMMENDED FOR APPROVAL Chief, Design Section APPROVED
					Chief, Division of Transportation Engineering
	NO.	REVISION	DATE	BY	Designed by: CJS Drawn by: CJS Checked

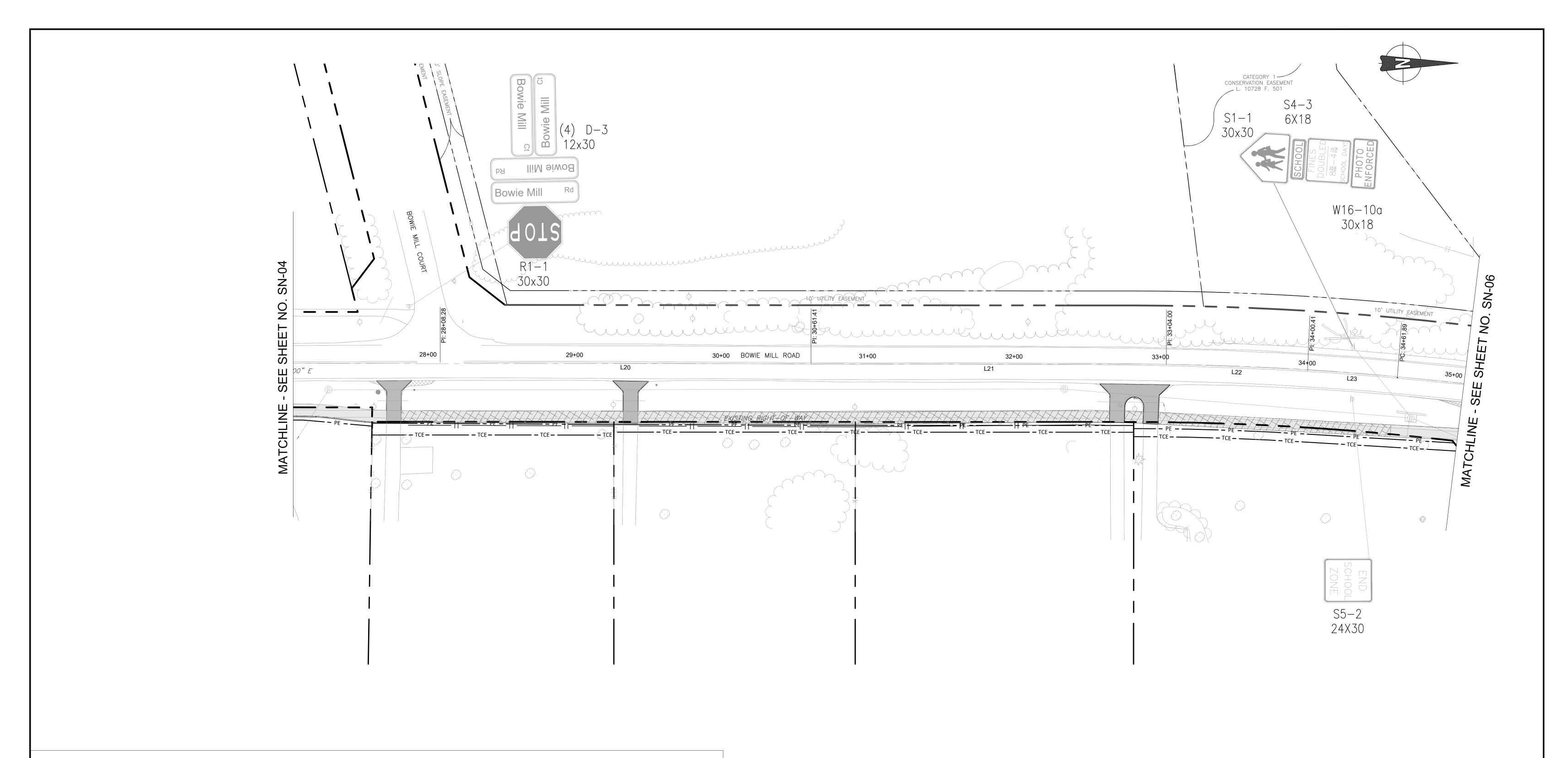
SIGNING & PAVEMENT MARKING PLAN BOWIE MILL ROAD BIKEWAY M-NCPPC PERMIT NO. MR2023016 SHA TRACKING NO. 24APMO039XX SCALE: 1"=30' DATE: APRIL 2025 Project No. : 502108 Sheet <u>208</u> of <u>393</u>

Checked by: DJD

SN-03

FILE NAME: C:\pwworking\jmt\d0642160\pSN_Bowie Mill Rd.dwg LAYOUT NAME: SN-03 PLOTTED: Monday, April 07, 2025 - 5:26pm USER: CStricker







EXISTING SIGN TO REMAIN



EXISTING SIGN TO BE REMOVED



PROPOSED SIGN

PROPOSED ASPHALT PATH/TRAIL-IMPERVIOUS PROPOSED ASPHALT PATH/TRAIL PERVIOUS

PROPOSED DRIVEWAY ASPHALT PAVEMENT

- SOLID SINGLE 24" LEAD FREE WHITE REFLECTIVE THERMOPLASTIC PAVEMENT MARKINGS
- SOLID SINGLE 24" LEAD FREE WHITE REFLECTIVE THERMOPLASTIC PAVEMENT MARKINGS (5' O.C. SPACING)
- SOLID 12" LEAD FREE WHITE THERMOPLASTIC PAVEMENT MARKINGS
- THERMOPLASTIC PAVEMENT MARKING LEGENDS AND SYMBOLS
- PROPOSED PAVEMENT REMOVAL
- PROPOSED RIP-RAP SLOPE STABILIZATION
- PROPOSED CONCRETE SIDEWALK

NOTES:

90% DESIGN

NOT FOR CONSTRUCTION

1. ALL SIGNS SHALL BE PLACED ON 2" X 2" GA BREAKAWAY TUBULAR STEEL SIGN SUPPORTS UNLESS OTHERWISE NOTED.

REVISION

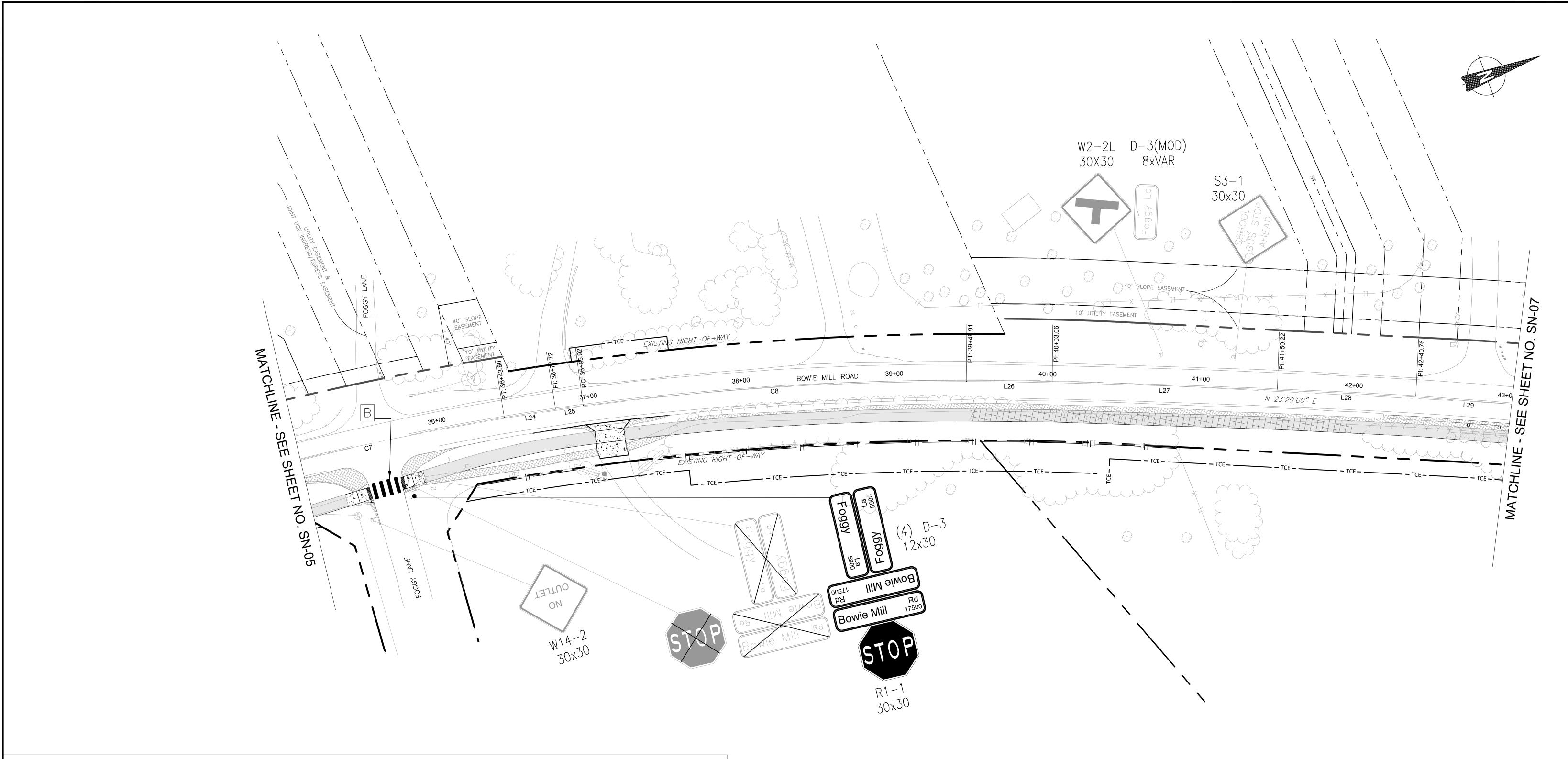
NO.

SN-05 MONTGOMERY COUNTY SIGNING & PAVEMENT MARKING PLAN DEPARTMENT OF TRANSPORTATION

NOTE: NO WORK ON THIS SHEET.

GAITHERSBURG, MARYLAND BOWIE MILL ROAD RECOMMENDED FOR APPROVAL BIKEWAY M-NCPPC PERMIT NO. MR2023016 SHA TRACKING NO. 24APMO039XX Chief, Design Section Chief, Division of Transportation Engineering SCALE: 1"=30' DATE: APRIL 2025 Designed by: CJS Drawn by: CJS Checked by: DJD Sheet <u>210</u> of <u>393</u> Project No. : 502108 DATE BY

FILE NAME: C:\pwworking\jmt\d0642160\pSN_Bowie Mill Rd.dwg LAYOUT NAME: SN-05 PLOTTED: Monday, April 07, 2025 - 5:30pm USER: CStricker





EXISTING SIGN TO REMAIN

SOLID SINGLE 24" LEAD FREE WHITE REFLECTIVE THERMOPLASTIC PAVEMENT MARKINGS



EXISTING SIGN TO BE REMOVED



SOLID SINGLE 24" LEAD FREE WHITE REFLECTIVE THERMOPLASTIC PAVEMENT MARKINGS (5' O.C. SPACING)



PROPOSED SIGN



SOLID 12" LEAD FREE WHITE THERMOPLASTIC PAVEMENT MARKINGS

THERMOPLASTIC PAVEMENT MARKING LEGENDS AND SYMBOLS



PROPOSED ASPHALT PATH/TRAIL-IMPERVIOUS



PROPOSED DRIVEWAY ASPHALT PAVEMENT

PROPOSED PAVEMENT REMOVAL

PROPOSED RIP-RAP SLOPE STABILIZATION

PROPOSED CONCRETE SIDEWALK

NOTES:

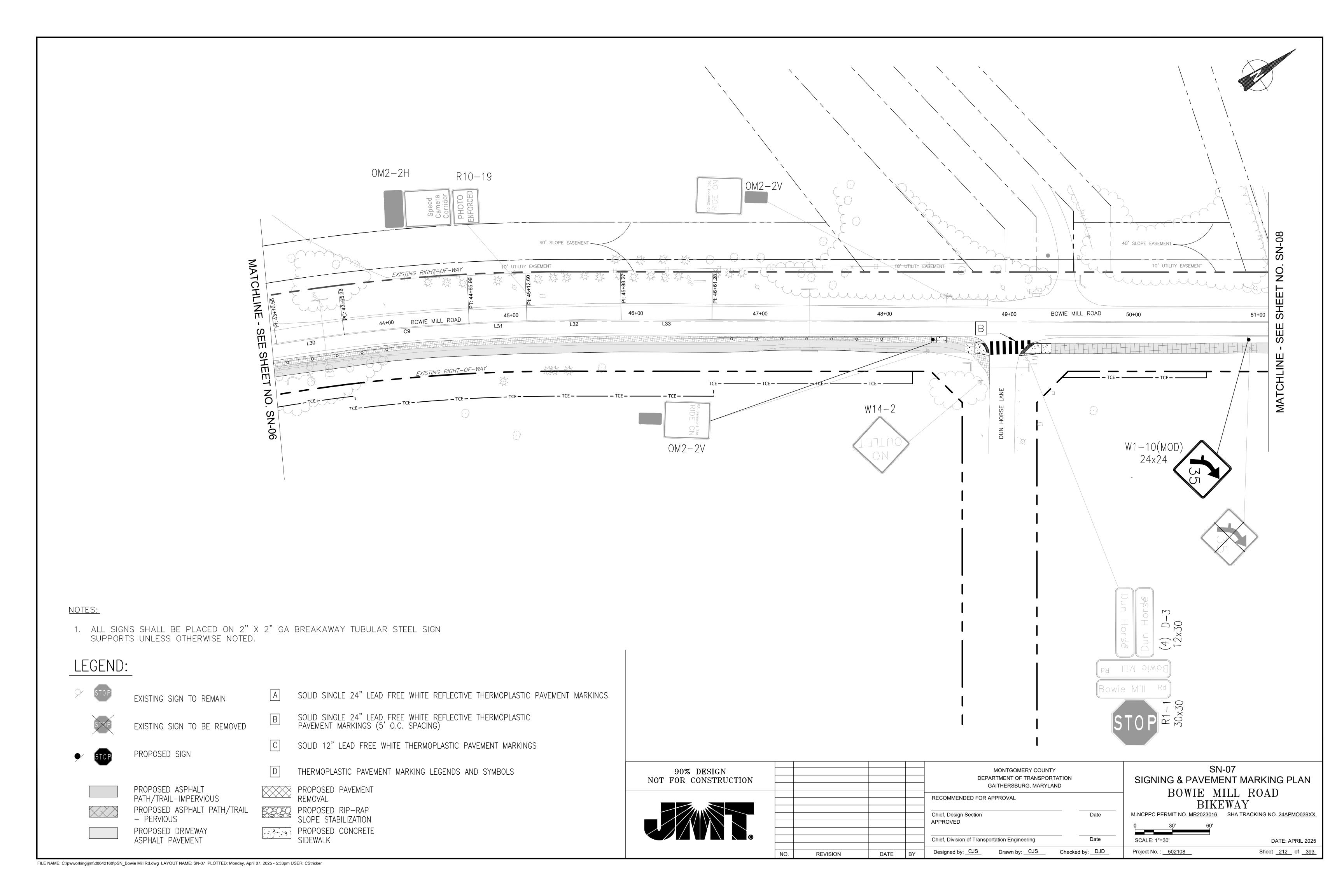
1. ALL SIGNS SHALL BE PLACED ON 2" X 2" GA BREAKAWAY TUBULAR STEEL SIGN SUPPORTS UNLESS OTHERWISE NOTED.

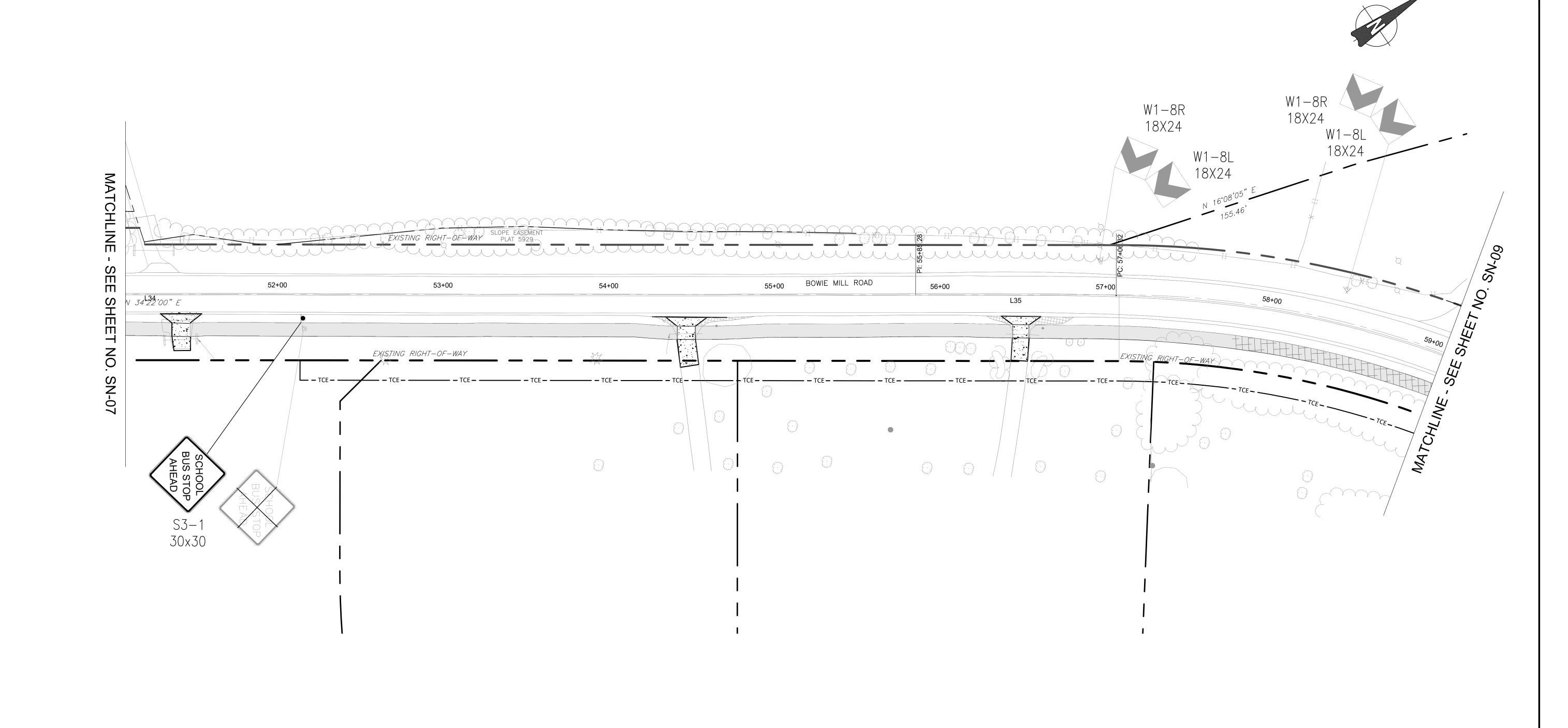
90% DESIGN NOT FOR CONSTRUCTION					MONTGOMERY COUNTY DEPARTMENT OF TRANSPORTATION GAITHERSBURG, MARYLAND	
					RECOMMENDED FOR APPROVAL Chief, Design Section Date APPROVED	
					Chief, Division of Transportation Engineering Date	
	NO.	REVISION	DATE	BY	Designed by: CJS Drawn by: CJS Checked by: DJD	

SN-06 SIGNING & PAVEMENT MARKING PLAN BOWIE MILL ROAD BIKEWAY

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

SCALE: 1"=30' DATE: APRIL 2025 Sheet <u>211</u> of <u>393</u> Project No. : 502108







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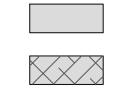


EXISTING SIGN TO BE REMOVED





PROPOSED SIGN



PROPOSED ASPHALT PATH/TRAIL-IMPERVIOUS PROPOSED ASPHALT PATH/TRAIL

— PERVIOUS

PROPOSED DRIVEWAY ASPHALT PAVEMENT

- SOLID SINGLE 24" LEAD FREE WHITE REFLECTIVE THERMOPLASTIC PAVEMENT MARKINGS
- SOLID SINGLE 24" LEAD FREE WHITE REFLECTIVE THERMOPLASTIC PAVEMENT MARKINGS (5' O.C. SPACING)
- SOLID 12" LEAD FREE WHITE THERMOPLASTIC PAVEMENT MARKINGS
- THERMOPLASTIC PAVEMENT MARKING LEGENDS AND SYMBOLS
- PROPOSED PAVEMENT REMOVAL

PROPOSED RIP-RAP SLOPE STABILIZATION

PROPOSED CONCRETE SIDEWALK

NOTES:

NOT

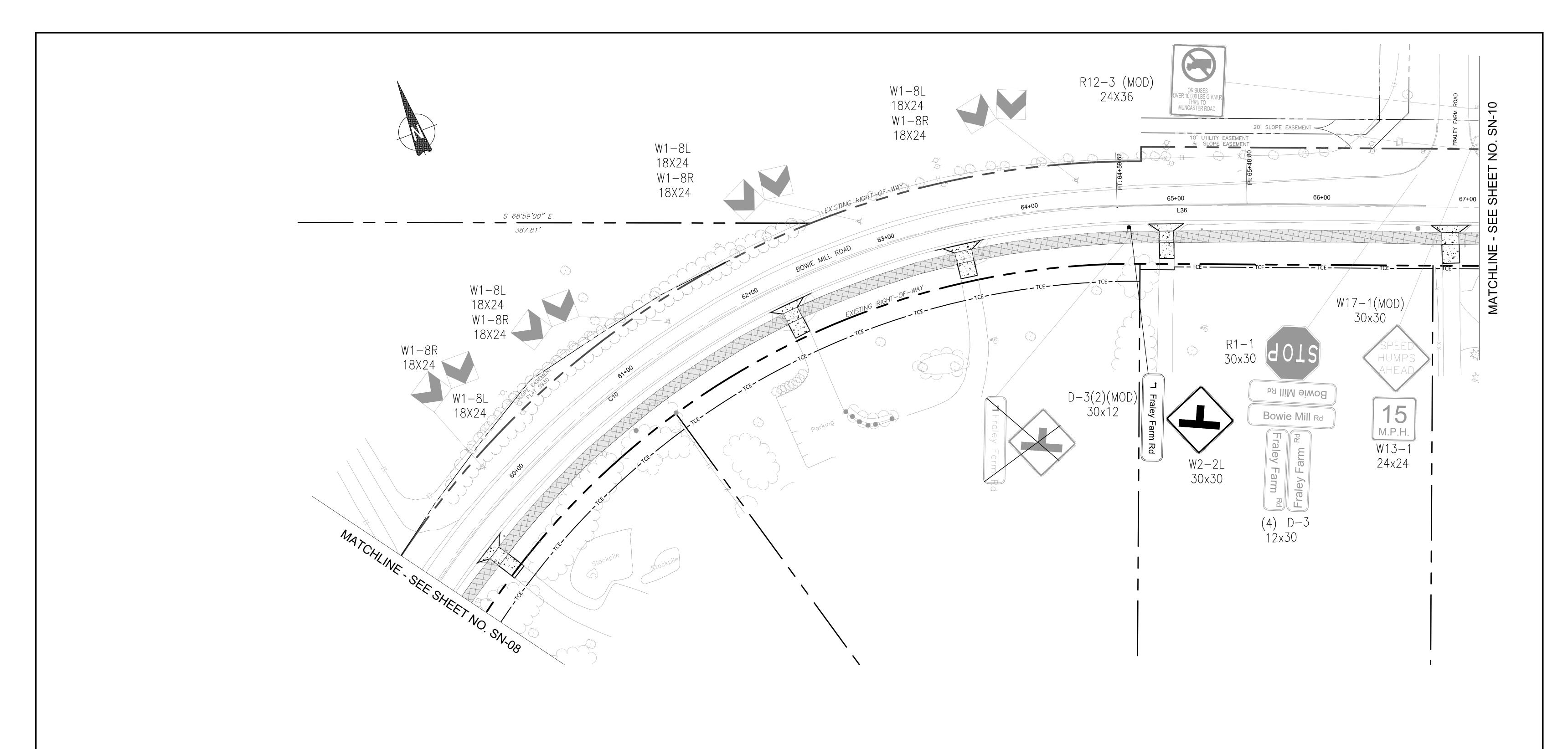
1. ALL SIGNS SHALL BE PLACED ON 2" X 2" GA BREAKAWAY TUBULAR STEEL SIGN SUPPORTS UNLESS OTHERWISE NOTED.

90% DESIGN FOR CONSTRUCTION					MONTGOMERY COUNTY DEPARTMENT OF TRANSPORTATIO GAITHERSBURG, MARYLAND	ON
					RECOMMENDED FOR APPROVAL	
					Chief, Design Section APPROVED	Date
					Chief, Division of Transportation Engineering	Date
	NO	PEVISION	DATE	RV	Designed by: CJS Drawn by: CJS Ch	necked by: DJD

SN-08 SIGNING & PAVEMENT MARKING PLAN BOWIE MILL ROAD BIKEWAY

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

DATE: APRIL 2025 Sheet <u>213</u> of <u>393</u> Project No. : 502108





EXISTING SIGN TO REMAIN



EXISTING SIGN TO BE REMOVED



PROPOSED SIGN



PROPOSED ASPHALT
PATH/TRAIL-IMPERVIOUS
PROPOSED ASPHALT PATH/TRAIL
- PERVIOUS

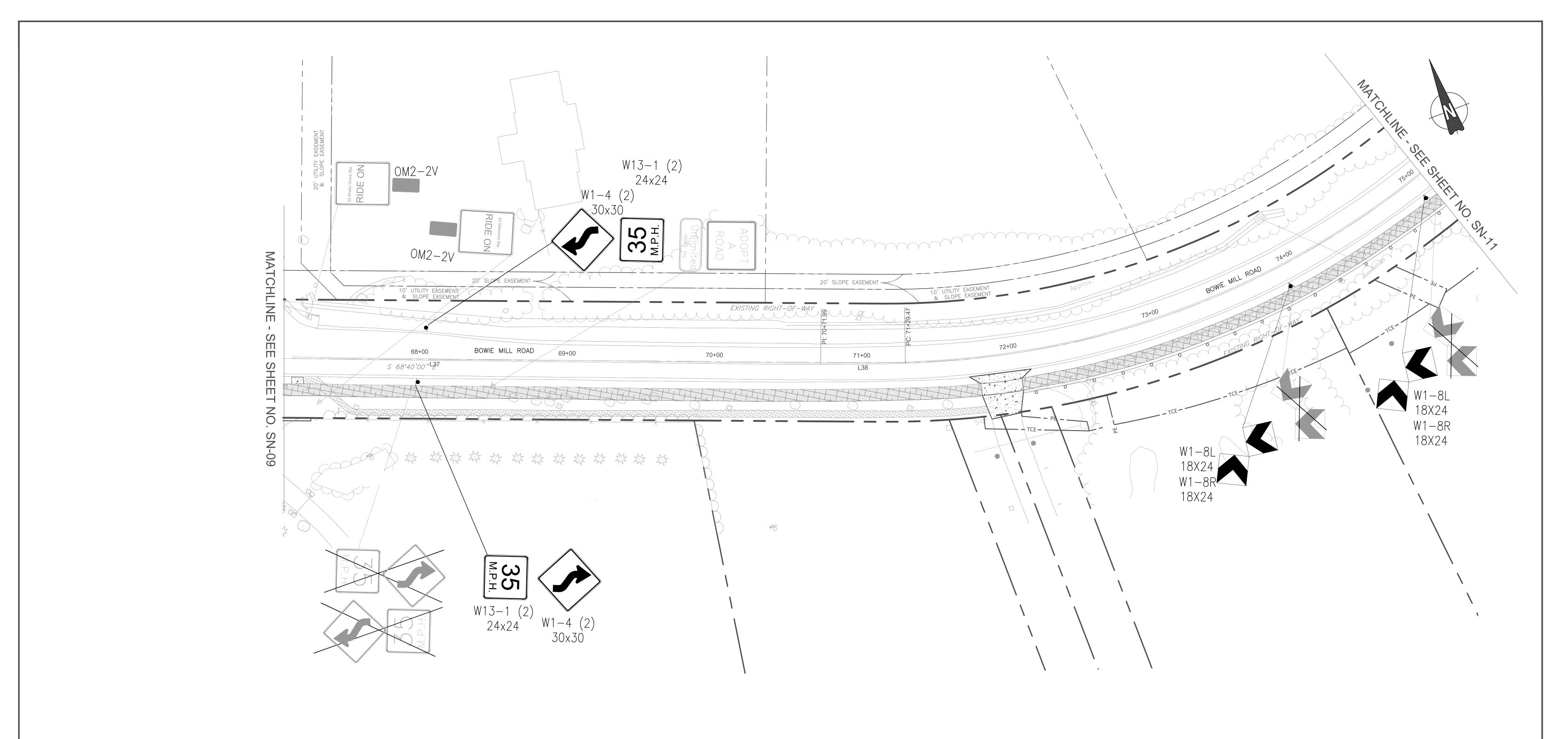
PROPOSED DRIVEWAY ASPHALT PAVEMENT

- SOLID SINGLE 24" LEAD FREE WHITE REFLECTIVE THERMOPLASTIC PAVEMENT MARKINGS
- B SOLID SINGLE 24" LEAD FREE WHITE REFLECTIVE THERMOPLASTIC PAVEMENT MARKINGS (5' O.C. SPACING)
- C SOLID 12" LEAD FREE WHITE THERMOPLASTIC PAVEMENT MARKINGS
- D THERMOPLASTIC PAVEMENT MARKING LEGENDS AND SYMBOLS
- PROPOSED PAVEMENT REMOVAL
- PROPOSED RIP-RAP SLOPE STABILIZATION
 PROPOSED CONCRETE SIDEWALK

NOTES:

1. ALL SIGNS SHALL BE PLACED ON 2" X 2" GA BREAKAWAY TUBULAR STEEL SIGN SUPPORTS UNLESS OTHERWISE NOTED.

90% DESIGN NOT FOR CONSTRUCTION					MONTGOMERY COUNTY DEPARTMENT OF TRANSPORTATION GAITHERSBURG, MARYLAND		SN- SIGNING & PAVEME	NT MARKING PLAN
					RECOMMENDED FOR APPROVAL		BOWIE MI BIKE	
					Chief, Design Section APPROVED	Date	M-NCPPC PERMIT NO. <u>MR2023016</u> 0 30' 60'	SHA TRACKING NO. <u>24APMO039XX</u>
					Chief, Division of Transportation Engineering	Date	SCALE: 1"=30'	DATE: APRIL 2025
	NO.	REVISION	DATE	BY	Designed by: <u>CJS</u> Drawn by: <u>CJS</u> Checke	d by: <u>DJD</u>	Project No. : <u>502108</u>	Sheet <u>214</u> of <u>393</u>





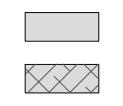
EXISTING SIGN TO REMAIN



EXISTING SIGN TO BE REMOVED



PROPOSED SIGN



PROPOSED ASPHALT
PATH/TRAIL—IMPERVIOUS
PROPOSED ASPHALT PATH/TRAIL
PERVIOUS

PROPOSED DRIVEWAY ASPHALT PAVEMENT

- SOLID SINGLE 24" LEAD FREE WHITE REFLECTIVE THERMOPLASTIC PAVEMENT MARKINGS
- B SOLID SINGLE 24" LEAD FREE WHITE REFLECTIVE THERMOPLASTIC PAVEMENT MARKINGS (5' O.C. SPACING)
- C SOLID 12" LEAD FREE WHITE THERMOPLASTIC PAVEMENT MARKINGS
- D THERMOPLASTIC PAVEMENT MARKING LEGENDS AND SYMBOLS

PROPOSED PAVEMENT REMOVAL

PROPOSED RIP-RAP SLOPE STABILIZATION
PROPOSED CONCRETE SIDEWALK

NOTES:

1. ALL SIGNS SHALL BE PLACED ON 2" X 2" GA BREAKAWAY TUBULAR STEEL SIGN SUPPORTS UNLESS OTHERWISE NOTED.

90% DESIGN NOT FOR CONSTRUCTION					MONTGOMERY COUNTY DEPARTMENT OF TRANSPORTATION GAITHERSBURG, MARYLAND	
					RECOMMENDED FOR APPROVAL Chief, Design Section APPROVED	Date
					Chief, Division of Transportation Engineering	Date
	NO.	REVISION	DATE	BY	Designed by: CJS Drawn by: CJS Checked	d by: DJD

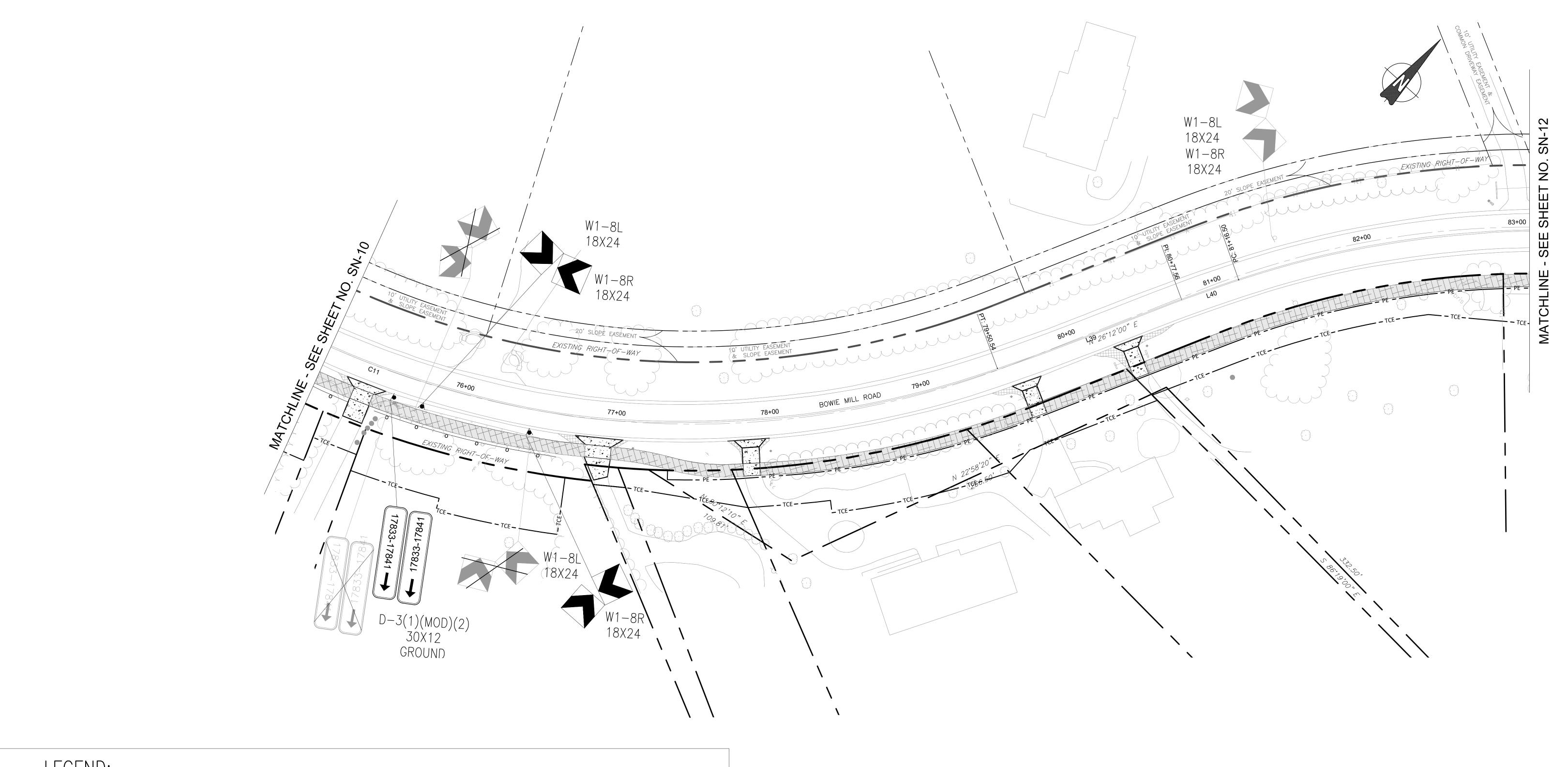
SN-10 SIGNING & PAVEMENT MARKING PLAN BOWIE MILL ROAD BIKEWAY

M-NCPPC PERMIT NO. <u>MR2023016</u> SHA TRACKING NO. <u>24APM0039XX</u>

0 30' 60'

 SCALE: 1"=30'
 DATE: APRIL 2025

 Project No. : __502108
 Sheet __215 __ of __393





EXISTING SIGN TO REMAIN



EXISTING SIGN TO BE REMOVED



PROPOSED SIGN



PROPOSED ASPHALT PATH/TRAIL-IMPERVIOUS



PROPOSED ASPHALT PATH/TRAIL PERVIOUS

PROPOSED DRIVEWAY ASPHALT PAVEMENT

SOLID SINGLE 24" LEAD FREE WHITE REFLECTIVE THERMOPLASTIC PAVEMENT MARKINGS



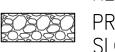
SOLID 12" LEAD FREE WHITE THERMOPLASTIC PAVEMENT MARKINGS



THERMOPLASTIC PAVEMENT MARKING LEGENDS AND SYMBOLS



PROPOSED PAVEMENT REMOVAL



PROPOSED RIP-RAP SLOPE STABILIZATION

PROPOSED CONCRETE SIDEWALK

NOTES:

1. ALL SIGNS SHALL BE PLACED ON 2" X 2" GA BREAKAWAY TUBULAR STEEL SIGN SUPPORTS UNLESS OTHERWISE NOTED.

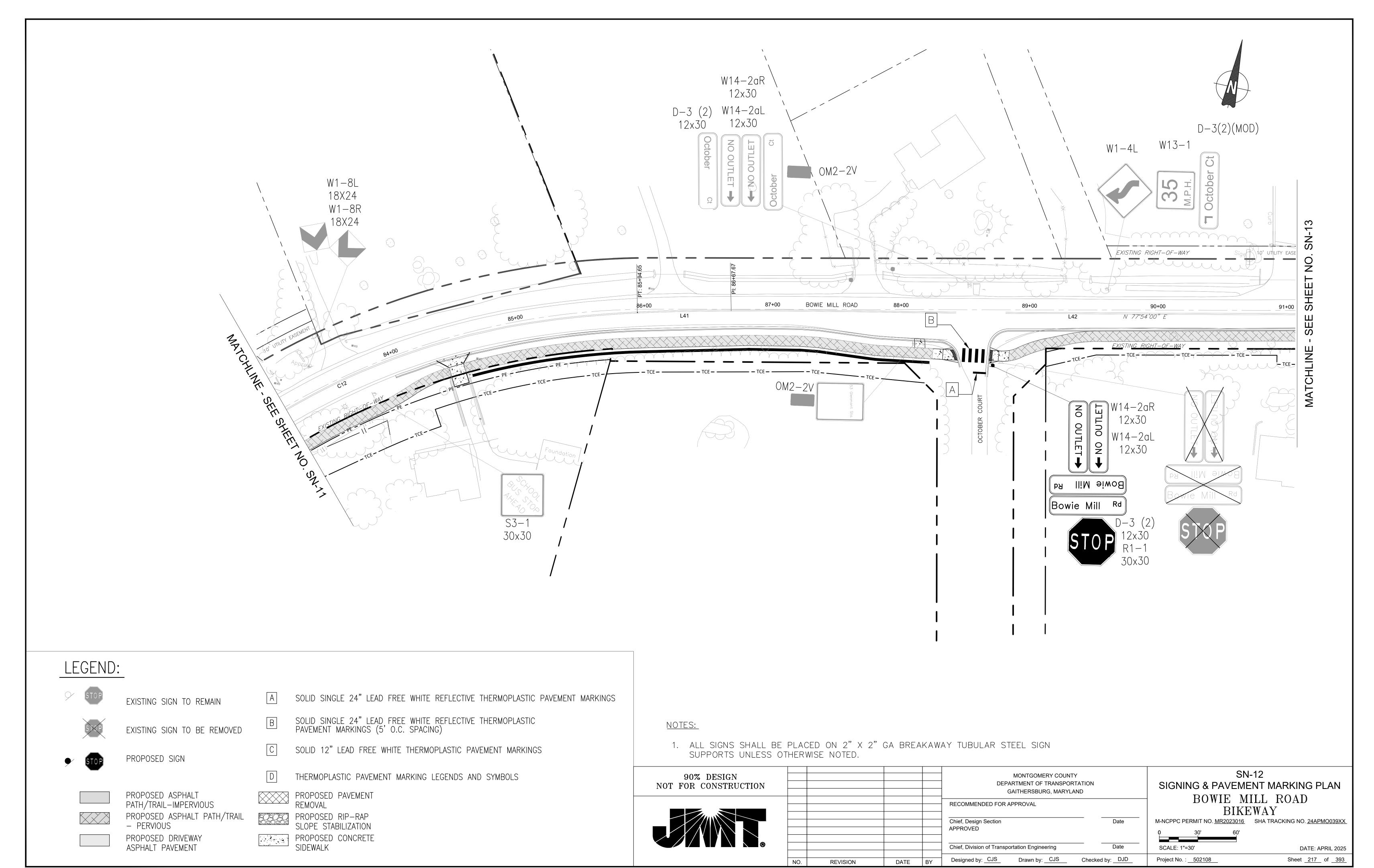
NOT FOR CONSTRUCTION	

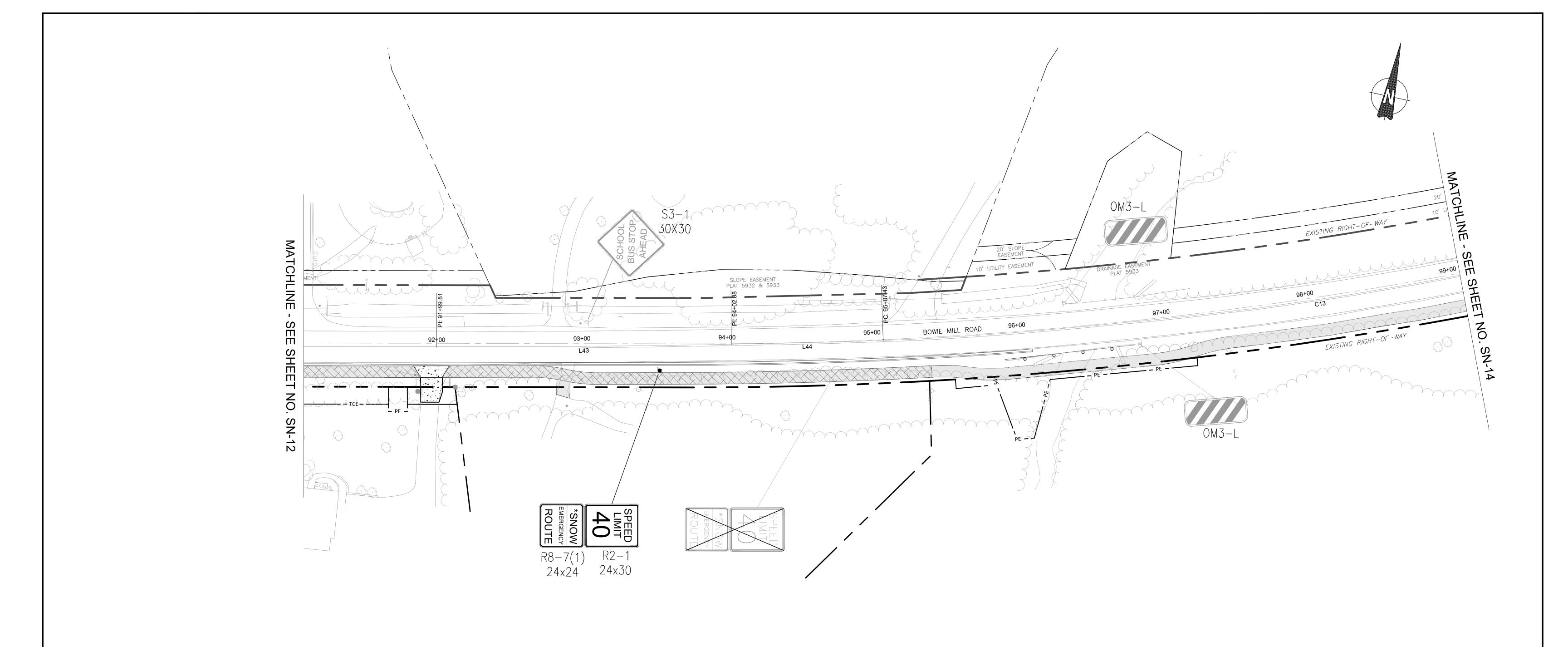
90% DESIGN

				MONTGOMERY COUNTY DEPARTMENT OF TRANSPORTATION GAITHERSBURG, MARYLAND							
				RECOMMENDED FOR APPROVAL							
				Chief, Design Section Date APPROVED							
				Chief, Division of Transportation Engineering Date							
Э.	REVISION	DATE	BY	Designed by: CJS Drawn by: CJS Checked by: DJD							

SN-11 SIGNING & PAVEMENT MARKING PLAN BOWIE MILL ROAD BIKEWAY M-NCPPC PERMIT NO. MR2023016 SHA TRACKING NO. 24APMO039XX

SCALE: 1"=30' DATE: APRIL 2025 Sheet <u>216</u> of <u>393</u> Project No. : 502108







EXISTING SIGN TO REMAIN



EXISTING SIGN TO BE REMOVED



PROPOSED SIGN



PROPOSED ASPHALT PATH/TRAIL-IMPERVIOUS

PROPOSED DRIVEWAY ASPHALT PAVEMENT

PROPOSED ASPHALT PATH/TRAIL PERVIOUS

- SOLID SINGLE 24" LEAD FREE WHITE REFLECTIVE THERMOPLASTIC PAVEMENT MARKINGS
- SOLID SINGLE 24" LEAD FREE WHITE REFLECTIVE THERMOPLASTIC PAVEMENT MARKINGS (5' O.C. SPACING)
- SOLID 12" LEAD FREE WHITE THERMOPLASTIC PAVEMENT MARKINGS
- THERMOPLASTIC PAVEMENT MARKING LEGENDS AND SYMBOLS
- PROPOSED PAVEMENT REMOVAL
- PROPOSED RIP-RAP SLOPE STABILIZATION
- PROPOSED CONCRETE SIDEWALK

NOTES:

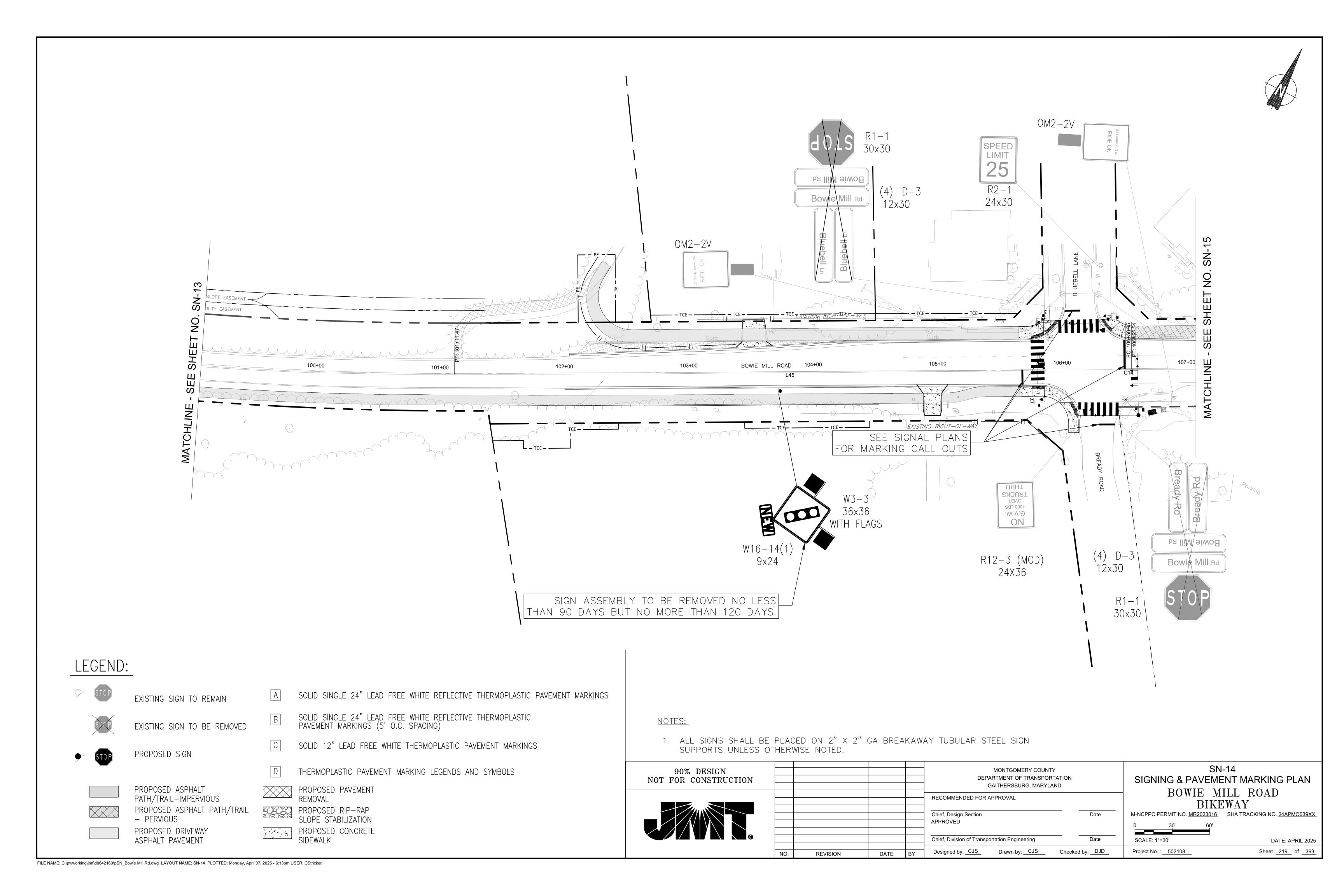
1. ALL SIGNS SHALL BE PLACED ON 2" X 2" GA BREAKAWAY TUBULAR STEEL SIGN SUPPORTS UNLESS OTHERWISE NOTED.

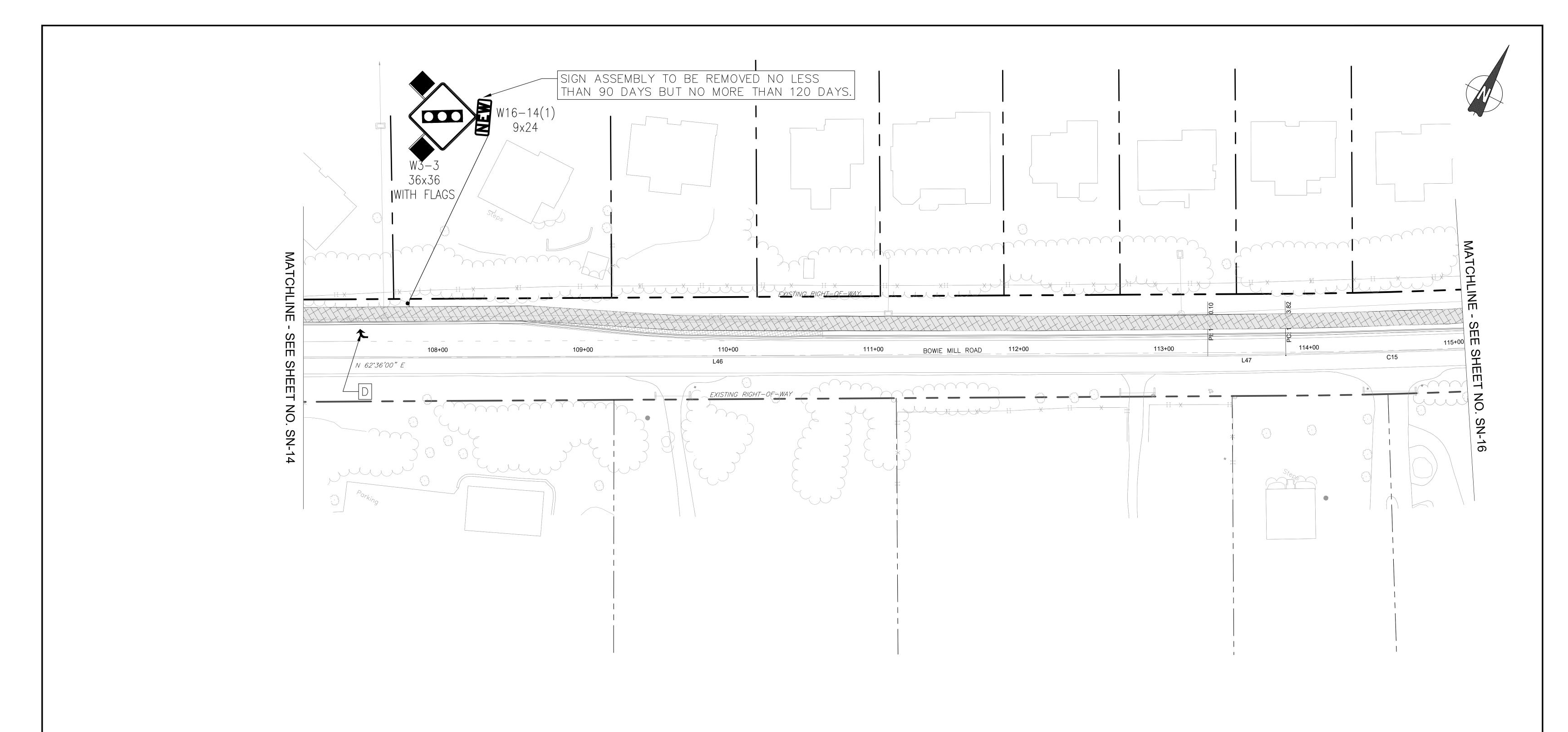
90% DESIGN NOT FOR CONSTRUCTION					MONTGOMERY COUNTY DEPARTMENT OF TRANSPORTATION GAITHERSBURG, MARYLAND	
					RECOMMENDED FOR APPROVAL	
					Chief, Design Section APPROVED	Date
					Chief, Division of Transportation Engineering	Date
	NO.	REVISION	DATE	BY	Designed by: CJS Drawn by: CJS Checked	by: DJD

SN-13 SIGNING & PAVEMENT MARKING PLAN BOWIE MILL ROAD BIKEWAY

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

SCALE: 1"=30' DATE: APRIL 2025 Sheet <u>218</u> of <u>393</u> Project No. : 502108







EXISTING SIGN TO REMAIN



EXISTING SIGN TO BE REMOVED





PROPOSED SIGN

PROPOSED ASPHALT PATH/TRAIL-IMPERVIOUS PROPOSED ASPHALT PATH/TRAIL

PERVIOUS PROPOSED DRIVEWAY ASPHALT PAVEMENT

- SOLID SINGLE 24" LEAD FREE WHITE REFLECTIVE THERMOPLASTIC PAVEMENT MARKINGS
- SOLID SINGLE 24" LEAD FREE WHITE REFLECTIVE THERMOPLASTIC PAVEMENT MARKINGS (5' O.C. SPACING)
- SOLID 12" LEAD FREE WHITE THERMOPLASTIC PAVEMENT MARKINGS
- THERMOPLASTIC PAVEMENT MARKING LEGENDS AND SYMBOLS

PROPOSED PAVEMENT REMOVAL

PROPOSED RIP-RAP SLOPE STABILIZATION

PROPOSED CONCRETE SIDEWALK

NOTES:

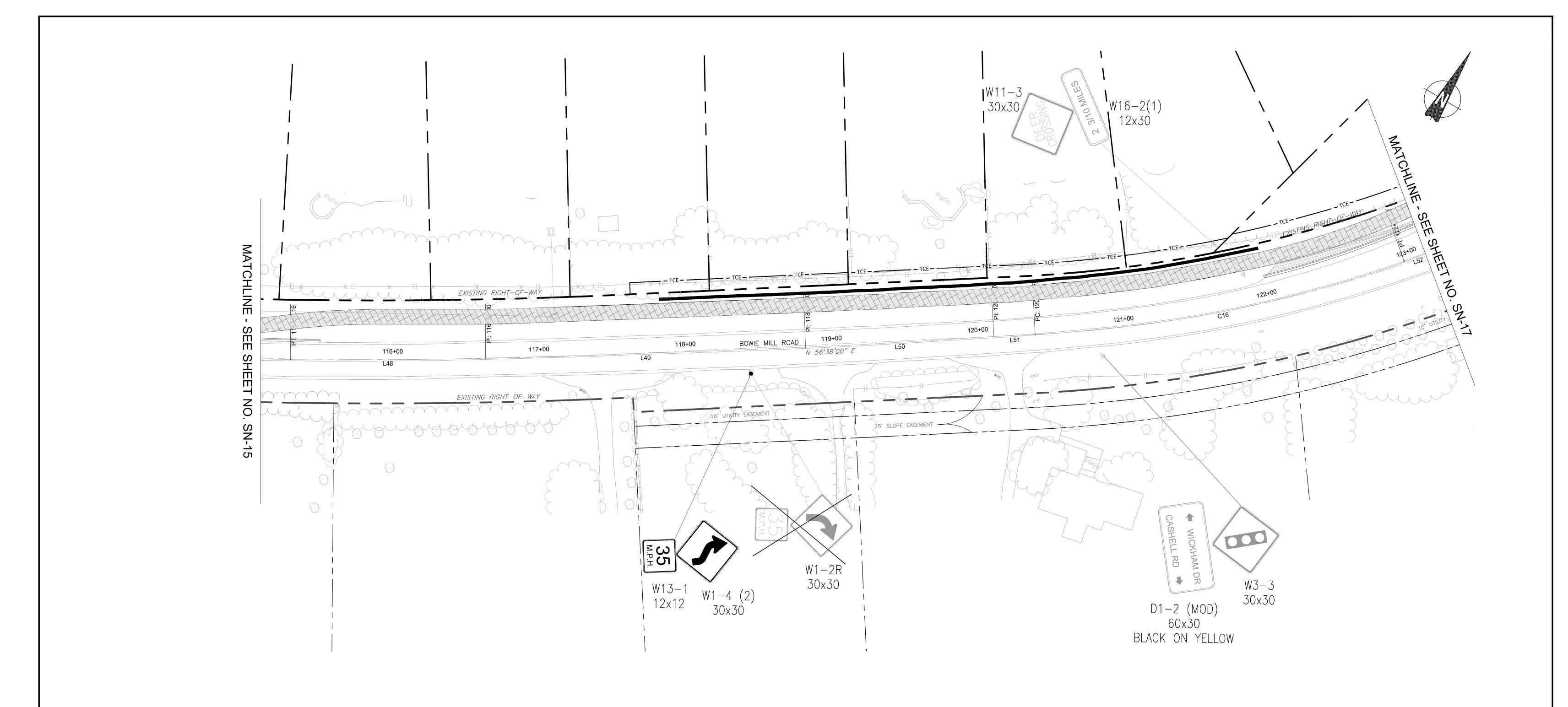
1. ALL SIGNS SHALL BE PLACED ON 2" X 2" GA BREAKAWAY TUBULAR STEEL SIGN SUPPORTS UNLESS OTHERWISE NOTED.

90% DESIGN NOT FOR CONSTRUCTION					MONTGOMERY COUNTY DEPARTMENT OF TRANSPORTATION GAITHERSBURG, MARYLAND	
					RECOMMENDED FOR APPROVAL	_
					Chief, Design Section Date APPROVED	
					Chief, Division of Transportation Engineering Date	
	NO.	REVISION	DATE	BY	Designed by: CJS Drawn by: CJS Checked by: DJD	

SN-15 SIGNING & PAVEMENT MARKING PLAN BOWIE MILL ROAD BIKEWAY

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

DATE: APRIL 2025 Sheet <u>220</u> of <u>393</u> Project No. : 502108





EXISTING SIGN TO REMAIN





EXISTING SIGN TO BE REMOVED





PROPOSED SIGN



PROPOSED ASPHALT PATH/TRAIL-IMPERVIOUS



PROPOSED ASPHALT PATH/TRAIL
– PERVIOUS

PROPOSED DRIVEWAY ASPHALT PAVEMENT

SOLID SINGLE 24" LEAD FREE WHITE REFLECTIVE THERMOPLASTIC PAVEMENT MARKINGS

SOLID SINGLE 24" LEAD FREE WHITE REFLECTIVE THERMOPLASTIC PAVEMENT MARKINGS (5' O.C. SPACING)

SOLID 12" LEAD FREE WHITE THERMOPLASTIC PAVEMENT MARKINGS

THERMOPLASTIC PAVEMENT MARKING LEGENDS AND SYMBOLS

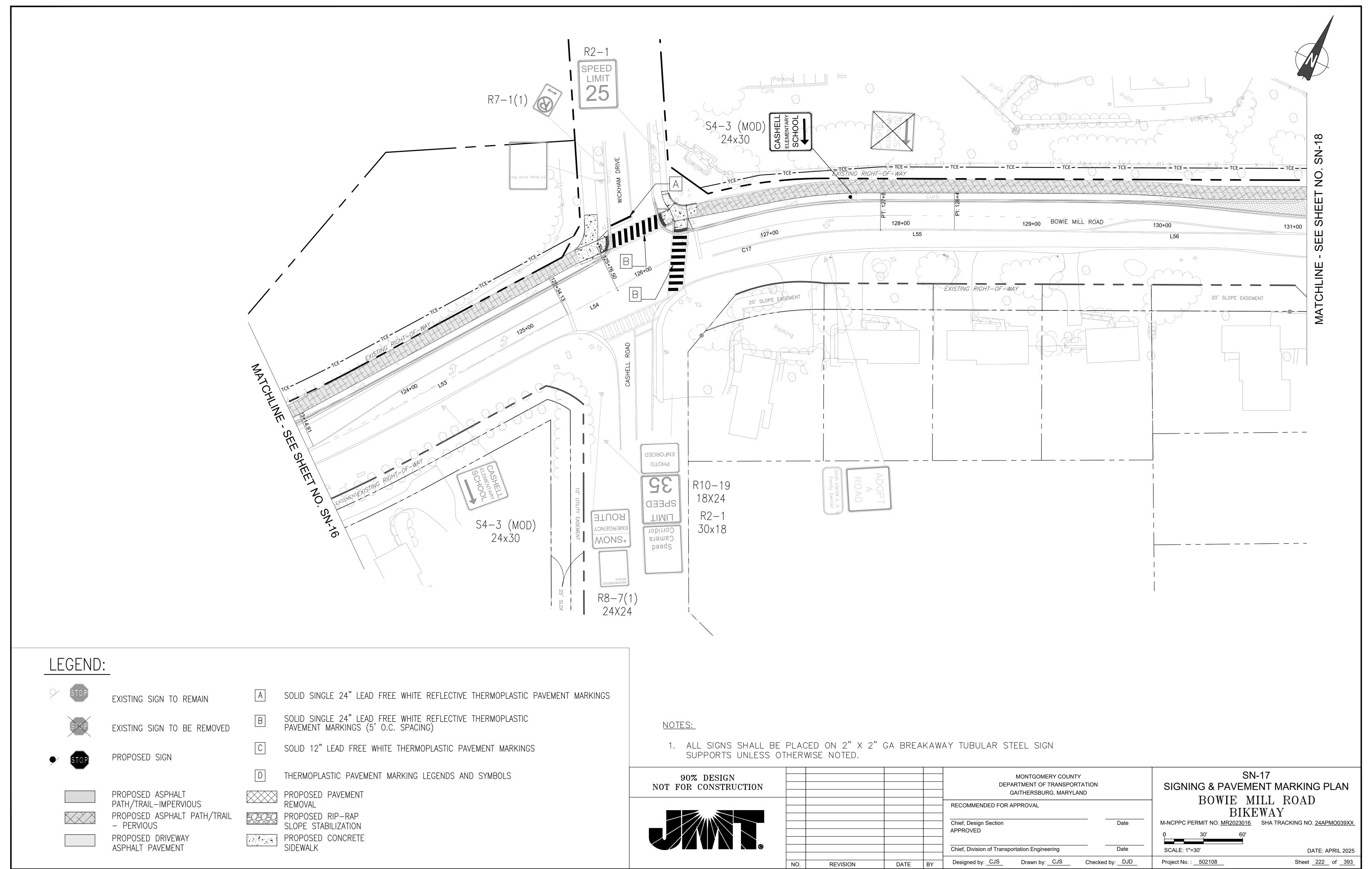
PROPOSED PAVEMENT REMOVAL PROPOSED RIP-RAP SLOPE STABILIZATION

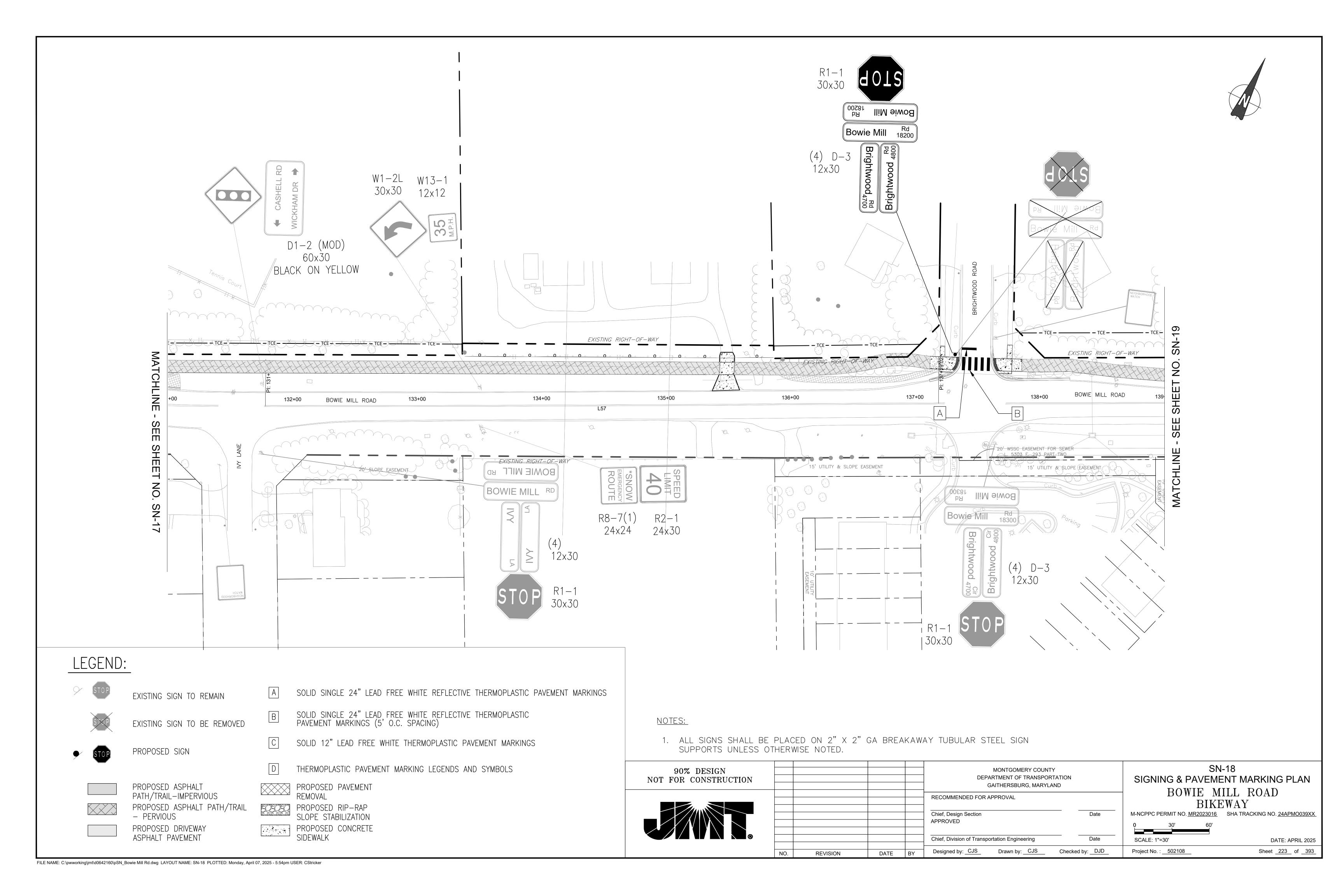
PROPOSED CONCRETE SIDEWALK

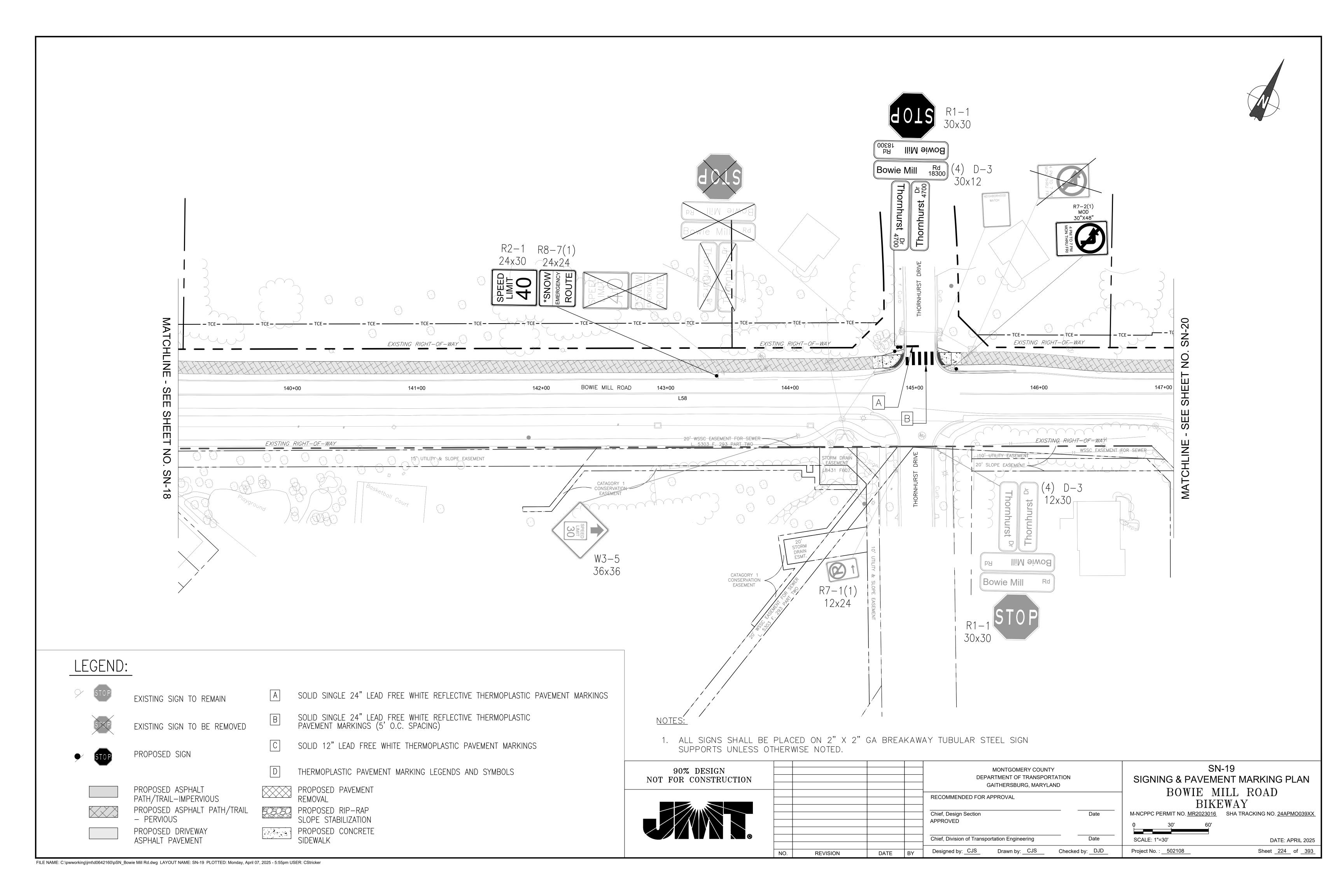
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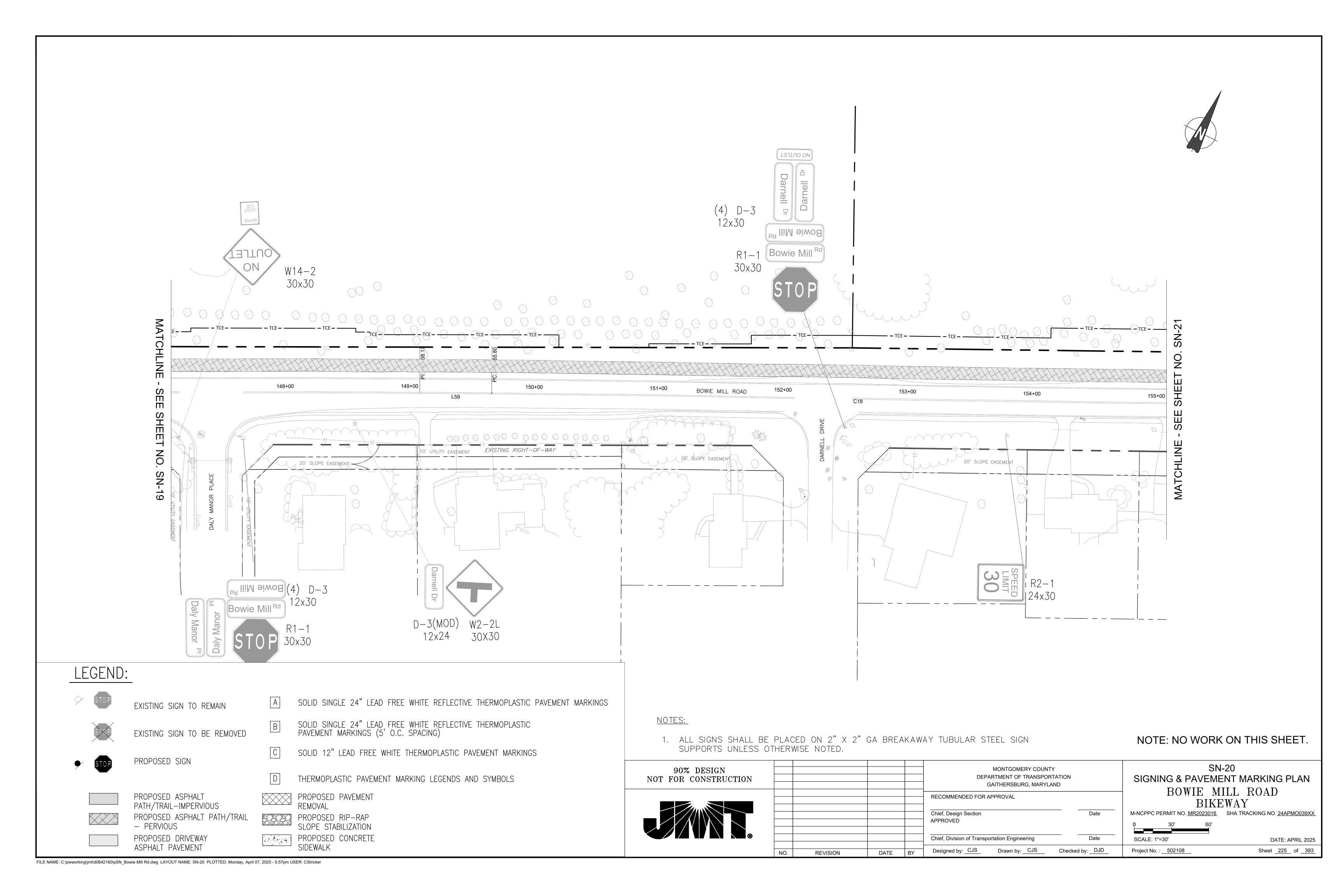
1. ALL SIGNS SHALL BE PLACED ON 2" X 2" GA BREAKAWAY TUBULAR STEEL SIGN SUPPORTS UNLESS OTHERWISE NOTED.

90% DESIGN NOT FOR CONSTRUCTION					MONTGOMERY COUNTY DEPARTMENT OF TRANSPORTAT GAITHERSBURG, MARYLAND		SN SIGNING & PAVEME	ENT MARKING PLAN
			RECOMMENDED FOR APPROVAL Chief, Design Section APPROVED	Date	BOWIE M. BIKE M-NCPPC PERMIT NO. MR2023016 0 30' 60'			
					Chief, Division of Transportation Engineering	Date	SCALE: 1"=30'	DATE: APRIL 2025
	NO.	REVISION	DATE	BY	Designed by: CJS Drawn by: CJS	Checked by: DJD	Project No. : <u>502108</u>	Sheet <u>221</u> of <u>393</u>

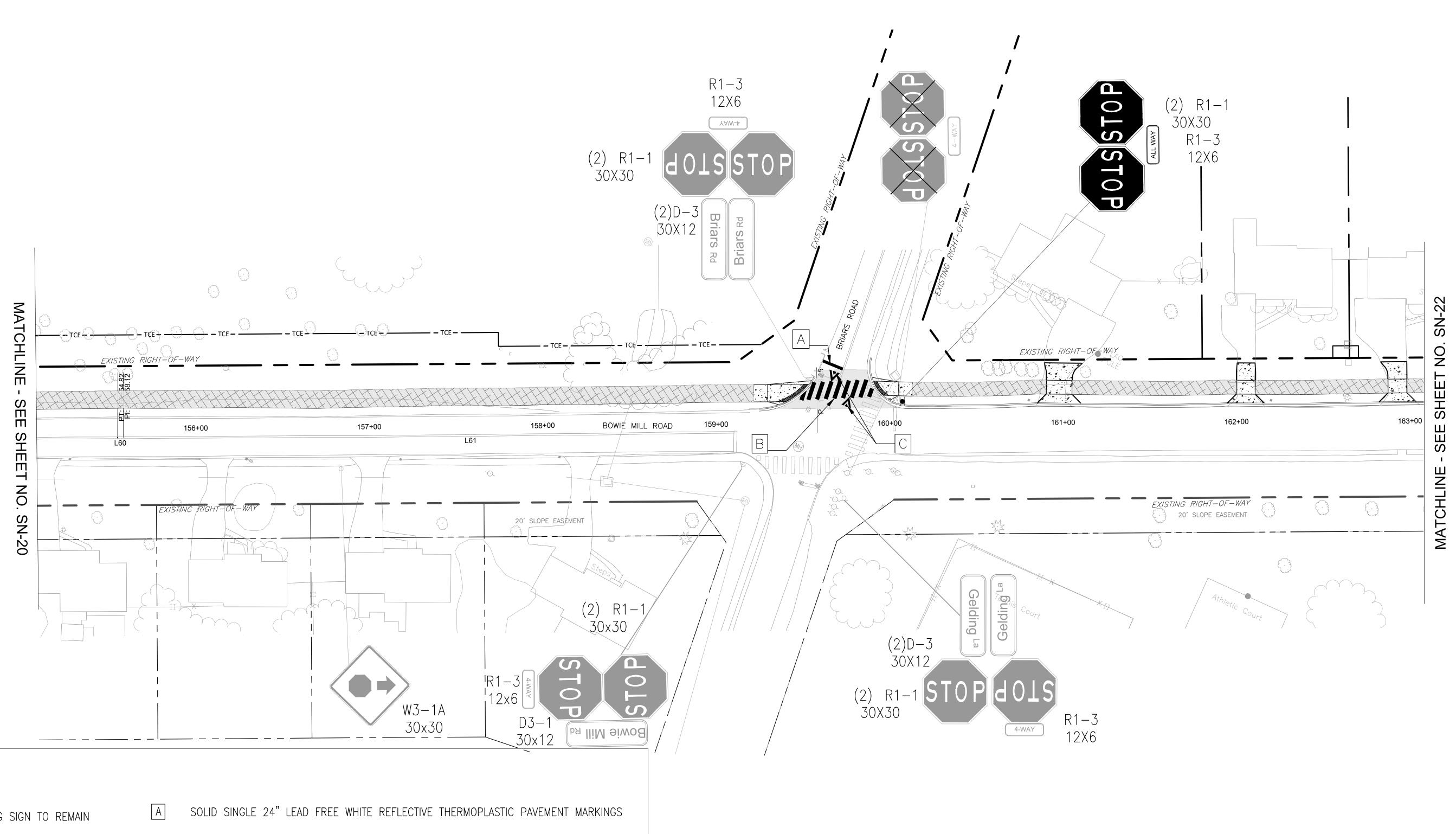














EXISTING SIGN TO REMAIN



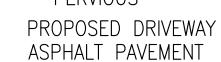
EXISTING SIGN TO BE REMOVED



PROPOSED SIGN



PROPOSED ASPHALT PATH/TRAIL-IMPERVIOUS PROPOSED ASPHALT PATH/TRAIL - PERVIOUS



- SOLID SINGLE 24" LEAD FREE WHITE REFLECTIVE THERMOPLASTIC PAVEMENT MARKINGS (5' O.C. SPACING)
- SOLID 12" LEAD FREE WHITE THERMOPLASTIC PAVEMENT MARKINGS
- THERMOPLASTIC PAVEMENT MARKING LEGENDS AND SYMBOLS

PROPOSED PAVEMENT REMOVAL

PROPOSED RIP-RAP SLOPE STABILIZATION

PROPOSED CONCRETE SIDEWALK

NOTES:

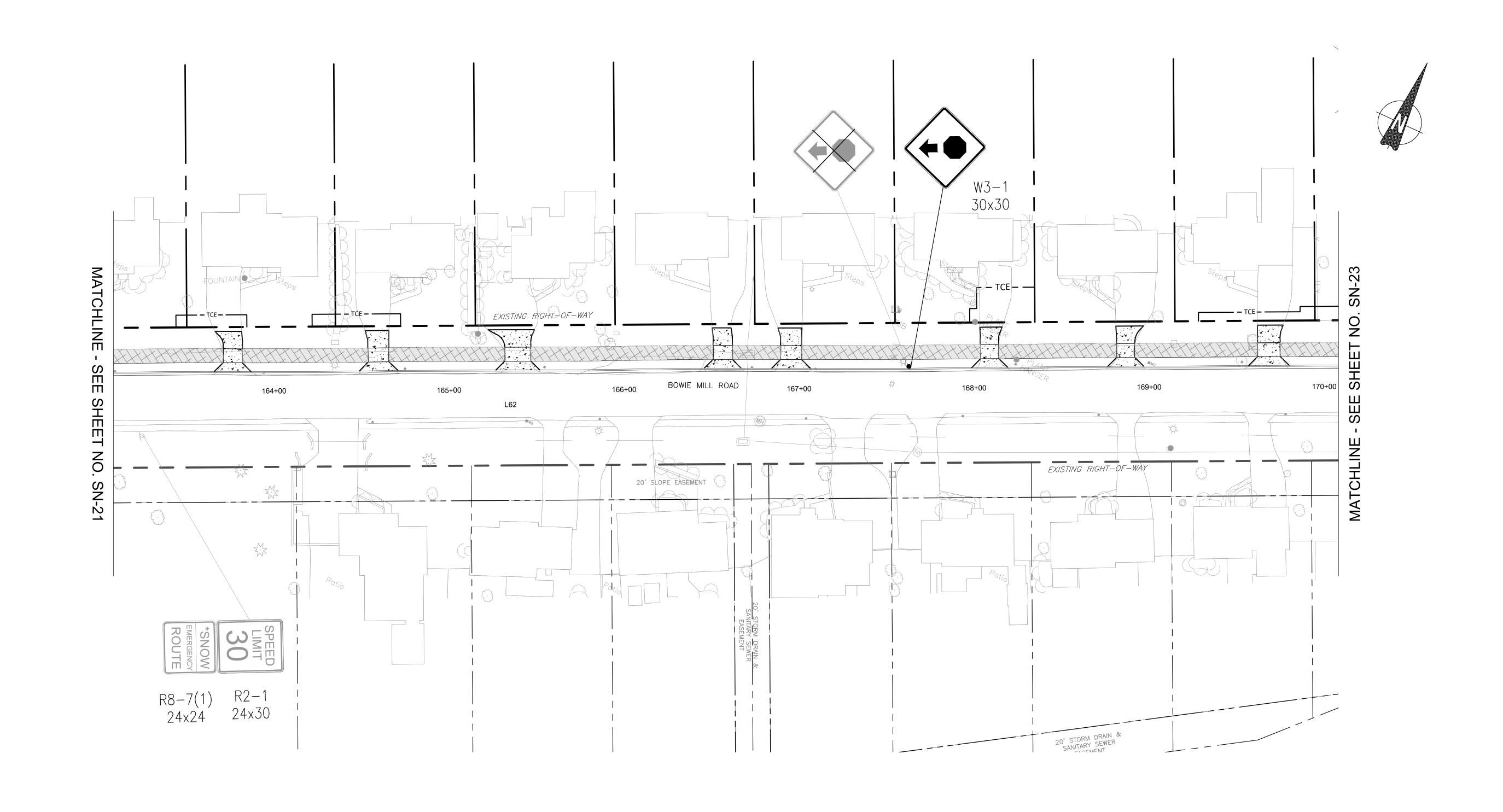
1. ALL SIGNS SHALL BE PLACED ON 2" X 2" GA BREAKAWAY TUBULAR STEEL SIGN SUPPORTS UNLESS OTHERWISE NOTED.

90% DESIGN NOT FOR CONSTRUCTION					MONTGOMERY COUNTY DEPARTMENT OF TRANSPORTATION GAITHERSBURG, MARYLAND	
					RECOMMENDED FOR APPROVAL Chief, Design Section Date APPROVED Chief, Division of Transportation Engineering Date	- -
	NO.	REVISION	DATE	BY	Designed by: CJS Drawn by: CJS Checked by: DJD	

SN-21 SIGNING & PAVEMENT MARKING PLAN BOWIE MILL ROAD BIKEWAY

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

SCALE: 1"=30' DATE: APRIL 2025 Sheet <u>226</u> of <u>393</u> Project No. : 502108





EXISTING SIGN TO REMAIN

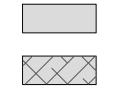


EXISTING SIGN TO BE REMOVED



PROPOSED SIGN





PROPOSED ASPHALT PATH/TRAIL-IMPERVIOUS PROPOSED ASPHALT PATH/TRAIL PERVIOUS

PROPOSED DRIVEWAY ASPHALT PAVEMENT

- SOLID SINGLE 24" LEAD FREE WHITE REFLECTIVE THERMOPLASTIC PAVEMENT MARKINGS
- SOLID SINGLE 24" LEAD FREE WHITE REFLECTIVE THERMOPLASTIC PAVEMENT MARKINGS (5' O.C. SPACING)
- SOLID 12" LEAD FREE WHITE THERMOPLASTIC PAVEMENT MARKINGS
- THERMOPLASTIC PAVEMENT MARKING LEGENDS AND SYMBOLS

PROPOSED PAVEMENT REMOVAL

PROPOSED RIP-RAP SLOPE STABILIZATION

PROPOSED CONCRETE SIDEWALK

NOTES:

1. ALL SIGNS SHALL BE PLACED ON 2" X 2" GA BREAKAWAY TUBULAR STEEL SIGN SUPPORTS UNLESS OTHERWISE NOTED.

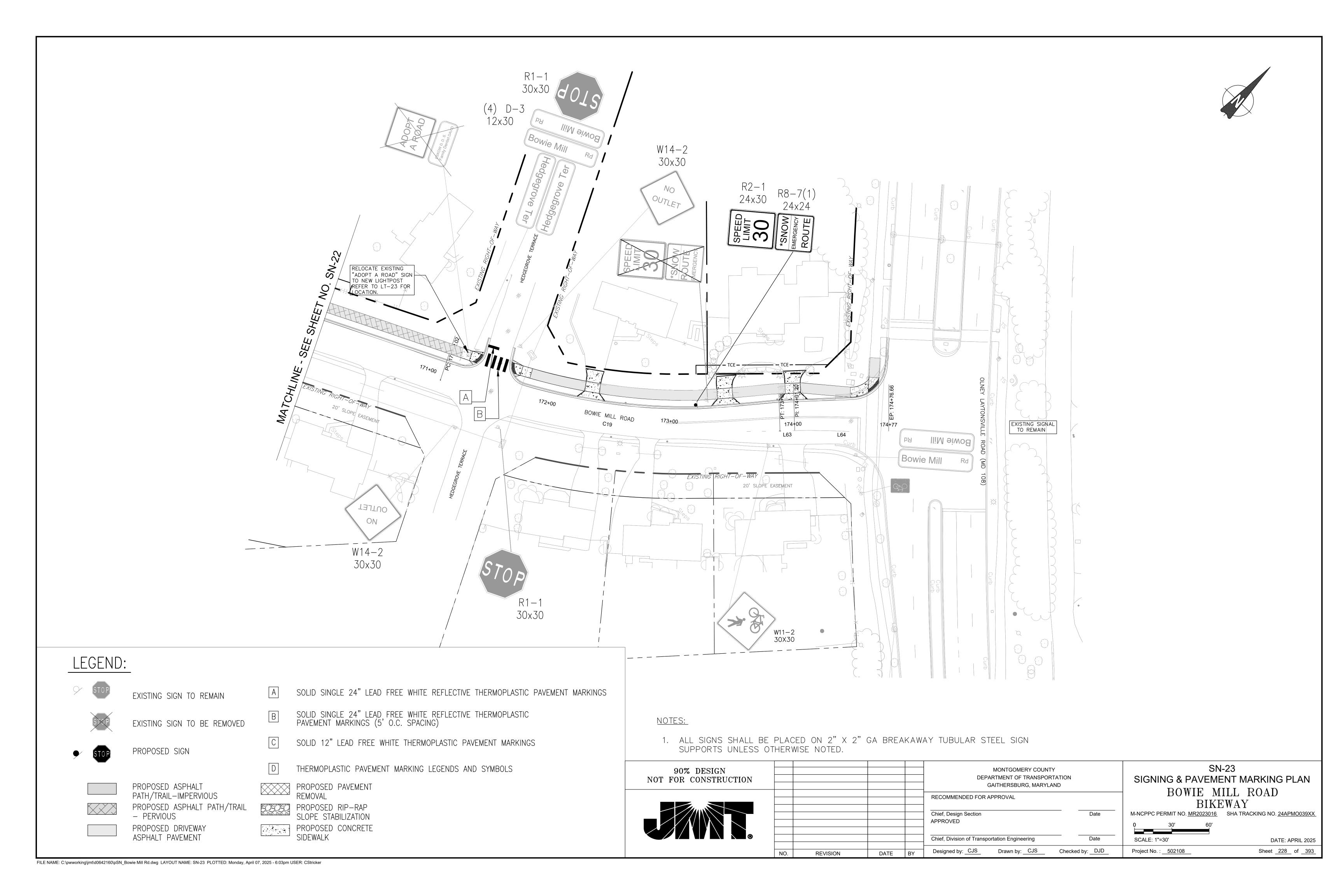
90% DESIGN				
NOT FOR CONSTRUCTION				
	NO.	REVISION	DATE	BY

	MONTGOMERY COUNTY DEPARTMENT OF TRANSPORTA GAITHERSBURG, MARYLAND	
	RECOMMENDED FOR APPROVAL	<u></u>
	Chief, Design Section APPROVED	Date
	Chief, Division of Transportation Engineering	 Date
· · · · · · · · · · · · · · · · · · ·	Designed by: CJS Drawn by: CJS	Checked by: DJD

SN-22 SIGNING & PAVEMENT MARKING PLAN BOWIE MILL ROAD BIKEWAY M-NCPPC PERMIT NO. MR2023016 SHA TRACKING NO. 24APMO039XX

SCALE: 1"=30'

DATE: APRIL 2025 Sheet <u>227</u> of <u>393</u> Project No. : 502108



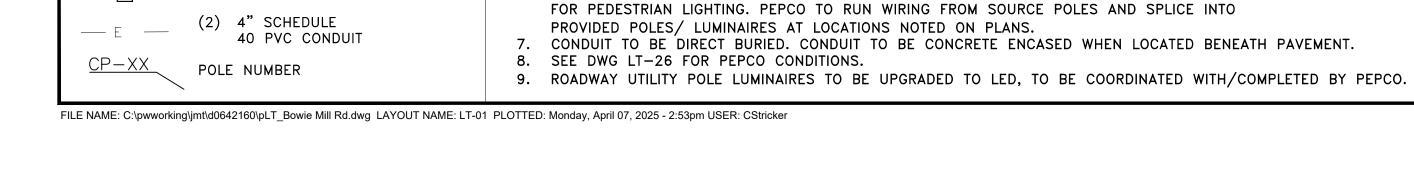
	PAVEMENT MARKINGS	
SHEET	REMARKS	QTY
SN-01	12 INICH WHITE THERMORI ACTIO	
-	12 INCH WHITE THERMOPLASTIC 24 INCH WHITE THERMOPLASTIC	0 220
	THERMOPLASTIC LEGEND & SYMBOLS	0
N-02		
	12 INCH WHITE THERMOPLASTIC	40
-	24 INCH WHITE THERMOPLASTIC THERMOPLASTIC LEGEND & SYMBOLS	70 0
N-03	THERMOPLASTIC LEGEND & STMBOLS	U
	12 INCH WHITE THERMOPLASTIC	0
	24 INCH WHITE THERMOPLASTIC	0
N 04	THERMOPLASTIC LEGEND & SYMBOLS	0
SN-04	12 INCH WHITE THERMOPLASTIC	0
-	24 INCH WHITE THERMOPLASTIC	110
	THERMOPLASTIC LEGEND & SYMBOLS	0
N-05		
-	12 INCH WHITE THERMOPLASTIC	0
-	24 INCH WHITE THERMOPLASTIC THERMOPLASTIC LEGEND & SYMBOLS	0
N-06		
	12 INCH WHITE THERMOPLASTIC	0
	24 INCH WHITE THERMOPLASTIC	40
N-07	THERMOPLASTIC LEGEND & SYMBOLS	0
1-0/	12 INCH WHITE THERMOPLASTIC	0
	24 INCH WHITE THERMOPLASTIC	60
	THERMOPLASTIC LEGEND & SYMBOLS	0
N-08		
	12 INCH WHITE THERMOPLASTIC	0
-	24 INCH WHITE THERMOPLASTIC THERMOPLASTIC LEGEND & SYMBOLS	0
1 -09	THEMMOLEASING LEGEND & SIMBULS	U
	12 INCH WHITE THERMOPLASTIC	0
	24 INCH WHITE THERMOPLASTIC	0
	THERMOPLASTIC LEGEND & SYMBOLS	0
\ −10	12 INCH WHITE THERMOPLASTIC	0
-	24 INCH WHITE THERMOPLASTIC	0
-	THERMOPLASTIC LEGEND & SYMBOLS	0
N-11		
	12 INCH WHITE THERMOPLASTIC	0
-	24 INCH WHITE THERMOPLASTIC	0
N-12	THERMOPLASTIC LEGEND & SYMBOLS	0
	12 INCH WHITE THERMOPLASTIC	0
	24 INCH WHITE THERMOPLASTIC	50
	THERMOPLASTIC LEGEND & SYMBOLS	0
N−13	12 INICH WHITE THEDMODIACTIO	^
-	12 INCH WHITE THERMOPLASTIC 24 INCH WHITE THERMOPLASTIC	0
-	THERMOPLASTIC LEGEND & SYMBOLS	0
1 -14		
	12 INCH WHITE THERMOPLASTIC	0
-	24 INCH WHITE THERMOPLASTIC	0
N-15	THERMOPLASTIC LEGEND & SYMBOLS	0
, , ,	12 INCH WHITE THERMOPLASTIC	0
	24 INCH WHITE THERMOPLASTIC	0
	THERMOPLASTIC LEGEND & SYMBOLS	15.5
N−16	12 INCH WHITE THERMOPLASTIC	0
-	24 INCH WHITE THERMOPLASTIC	0
	THERMOPLASTIC LEGEND & SYMBOLS	0
V-17		
F	12 INCH WHITE THERMOPLASTIC	0
-	24 INCH WHITE THERMOPLASTIC THERMOPLASTIC LEGEND & SYMBOLS	0
N-18	HILLMOLLWOILC LEGEND & SIMBOLS	U
	12 INCH WHITE THERMOPLASTIC	0
	24 INCH WHITE THERMOPLASTIC	60
	THERMOPLASTIC LEGEND & SYMBOLS	0
\ −19	12 INCH WHITE THEDMODIACTIO	^
-	12 INCH WHITE THERMOPLASTIC 24 INCH WHITE THERMOPLASTIC	0 60
-	THERMOPLASTIC LEGEND & SYMBOLS	0
N-20		
	12 INCH WHITE THERMOPLASTIC	0
-	24 INCH WHITE THERMOPLASTIC	0
N-21	THERMOPLASTIC LEGEND & SYMBOLS	0
-	12 INCH WHITE THERMOPLASTIC	40
-	24 INCH WHITE THERMOPLASTIC	90
I	·	

	PAVEMENT MARKINGS	
SHEET	REMARKS	QTY
SN-22		
	12 INCH WHITE THERMOPLASTIC	0
	24 INCH WHITE THERMOPLASTIC	0
	THERMOPLASTIC LEGEND & SYMBOLS	0
SN-23		
	12 INCH WHITE THERMOPLASTIC	0
	24 INCH WHITE THERMOPLASTIC	40
	THERMOPLASTIC LEGEND & SYMBOLS	0
	12 INCH WHITE THERMOPLASTIC	80 LF
TOTALS	24 INCH WHITE THERMOPLASTIC	1176 LF
	THERMOPLASTIC LEGEND & SYMBOLS	15.5 SF

		SIGNING	
SHEET	REMARKS	SUPPORTS	SHEET ALUMINU SIGN (SF)
SN-01	1117 7		
	W3-3 W16-8P	SINGLE SQUARE TUBULAR	6.25
	***10 01		2.5
SN-02	R1-1		
	D-3(2)	SINGLE SQUARE TUBULAR	6.25
	D 3(2)		3
SN-03			
SN-04			
SN-05			
SN-06	R1-1	SINGLE SQUARE TUBULAR	6.25
311 00	D-3(4)		10
SN-07	OM2-2V	SINGLE SQUARE TUBULAR	0.5
511 07	CUSTOM BUS STOP	-	2
	W1-1(MOD)	SINGLE SQUARE TUBULAR	4
SN-08	S3-1	SINGLE SQUARE TUBULAR	6.25
SN-09	W2-2L	SINGLE SQUARE TUBULAR	6.25
	D-3(2)(MOD)		2.5
SN-10	W13-1(2)	SINGLE SQUARE TUBULAR	6.25
	W1-4(2)		2.5
	W1-8L	SINGLE SQUARE TUBULAR	3
	<u>₩1−8R</u> W1−8L	SINGLE SQUARE TUBULAR	3
	W1-8R		3
SN-11	D 7(1)(MOD)(2)	SINGLE SQUARE TUBULAR	5
	D-3(1)(MOD)(2) W1-8L	SINGLE SQUARE TUBULAR	3
	W1-8R		3
	W1-8L W1-8R	SINGLE SQUARE TUBULAR	3
	WI-OK		3
SN-12	R1-1	SINGLE SQUARE TUBULAR	6.25
	D-3(4)		5
CN 4.7	R2-1	SINGLE SQUARE TUBULAR	5
SN-13	R8-7(1)		4
CN 44	0110 011	SINGLE SQUARE TUBULAR	0.5
SN-14	OM2-2V CUSTOM BUS STOP		2
	W3-3	CINCLE COLLABE TUBELLAS	9
	W16-14(1)	SINGLE SQUARE TUBULAR	1.5
SN-15	W3-3 W16-14(1)	SINGLE SQUARE TUBULAR	1.5
	W 10-14(1)		1.5
SN-16	W13-1	SINGLE SQUARE TUBULAR	1
	W1-2L		6.25
SN-17	S4-3(MOD)	SINGLE SQUARE TUBULAR	5
CNI 10	. ,	SINGLE SQUARE TUBULAR	6.25
SN-18	R1-1 D-3(4)	SITURE SQUARE TOBULAR	10
	<i>5</i> 5(±)	201617	
SN-19	R2-1	SINGLE SQUARE TUBULAR	5
	R8-7(1)	DOUBLE SOUADE TUBELLAD	4
	R1-1 D-3(4)	DOUBLE SQUARE TUBULAR	6.25
	R7-2(1)	SINGLE SQUARE TUBULAR	10
	-(.)	JJEE GGOTHE TOBOLAN	

		SIGNING	
			SHEET ALUMINUM
SHEET	REMARKS	SUPPORTS	SIGN (SF)
SN-21			
	R1-1	SINGLE SQUARE TUBULAR	6.25
	R1-1		6.25
	R1-3		0.5
SN-22	W3-1A	SINGLE SQUARE TUBULAR	6.25
SN-23	R2-1	SINGLE SQUARE TUBULAR	5
	R8-7(1)		4
TOTAL			207.75

90% DESIGN NOT FOR CONSTRUCTION		MONTGOMERY COUNTY DEPARTMENT OF TRANSPORTATION GAITHERSBURG, MARYLAND		SN-24 SIGNING & PAVEMENT MARKING QTY BOWIE MILL ROAD		
				RECOMMENDED FOR APPROVAL Chief, Design Section APPROVED	Date	BIKEWAY M-NCPPC PERMIT NO. MR2023016 SHA TRACKING NO. 24APMO039XX 0 30' 60'
				Chief, Division of Transportation Engineering	Date	SCALE: 1"=30' DATE: APRIL 2025
	NO.	REVISION	DATE BY	Designed by: CJS Drawn by: CJS Checked	d by: DJD	Project No. :502108 Sheet229 of393



MD 115

MD 115

MD 115

BOWIE MILL

BOWIE MILL

BOWIE MILL

LIGHTING NOTES:

1. SHEETS LT-01 THRU LT-13 IS WITHIN THE UPPER ROCK CREEK SPECIAL PROTECTION AREA

6. CONTRACTOR TO PROVIDE LIGHT POLES, FOUNDATIONS, FIXTURES, HANDHOLES, AND CONDUIT

3. PROPOSED LIGHTING POLES TO BE CABLED AND POWERED BY PEPCO.

4. ALL PROPOSED LIGHTING SHALL INCORPORATE LED LUMINAIRES. 5. SEE LANDSCAPING PLANS FOR EXISTING TREES TO BE REMOVED.

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

POLE # STATION OFFSET

203+33

205+00

0+44

1+77

2+71

PROPOSED LED COLONIAL POST

PEDESTRIAN LIGHT POLE

12" x 24" HANDHOLE

17" x 30" HANDHOLE

5

<u>LIGHTING LEGEND</u>

202+81 29' RT

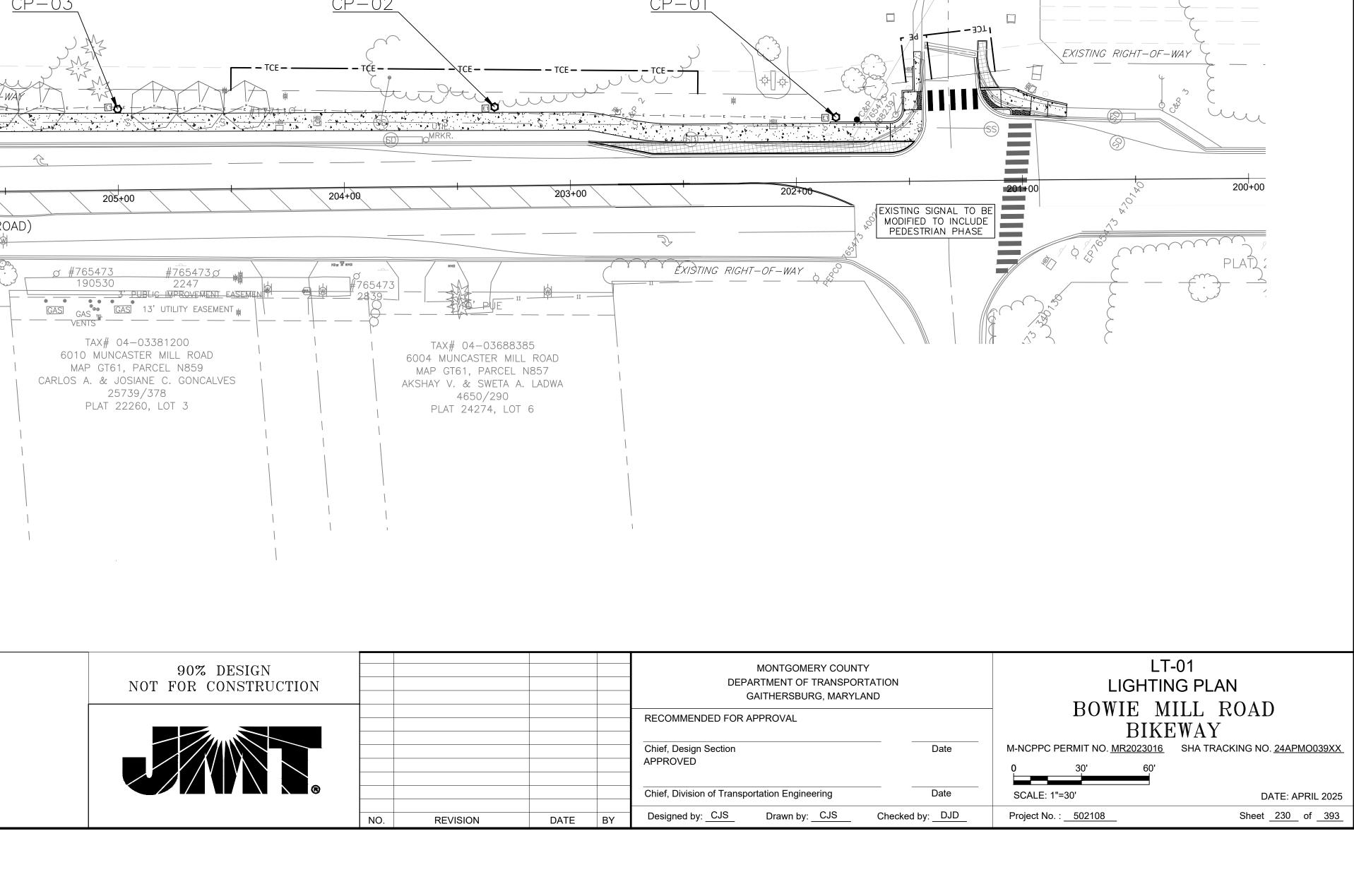
35' RT

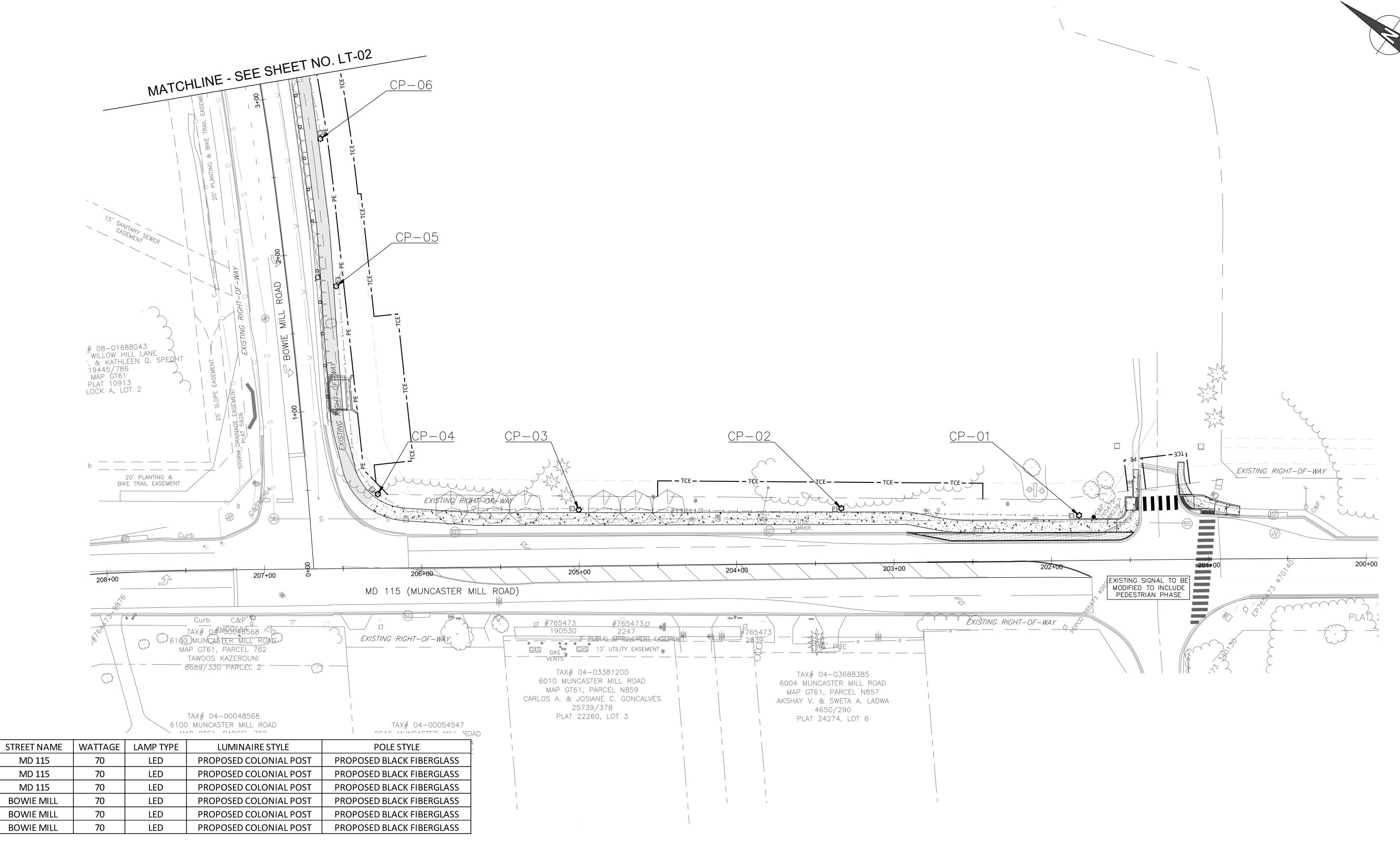
36' RT

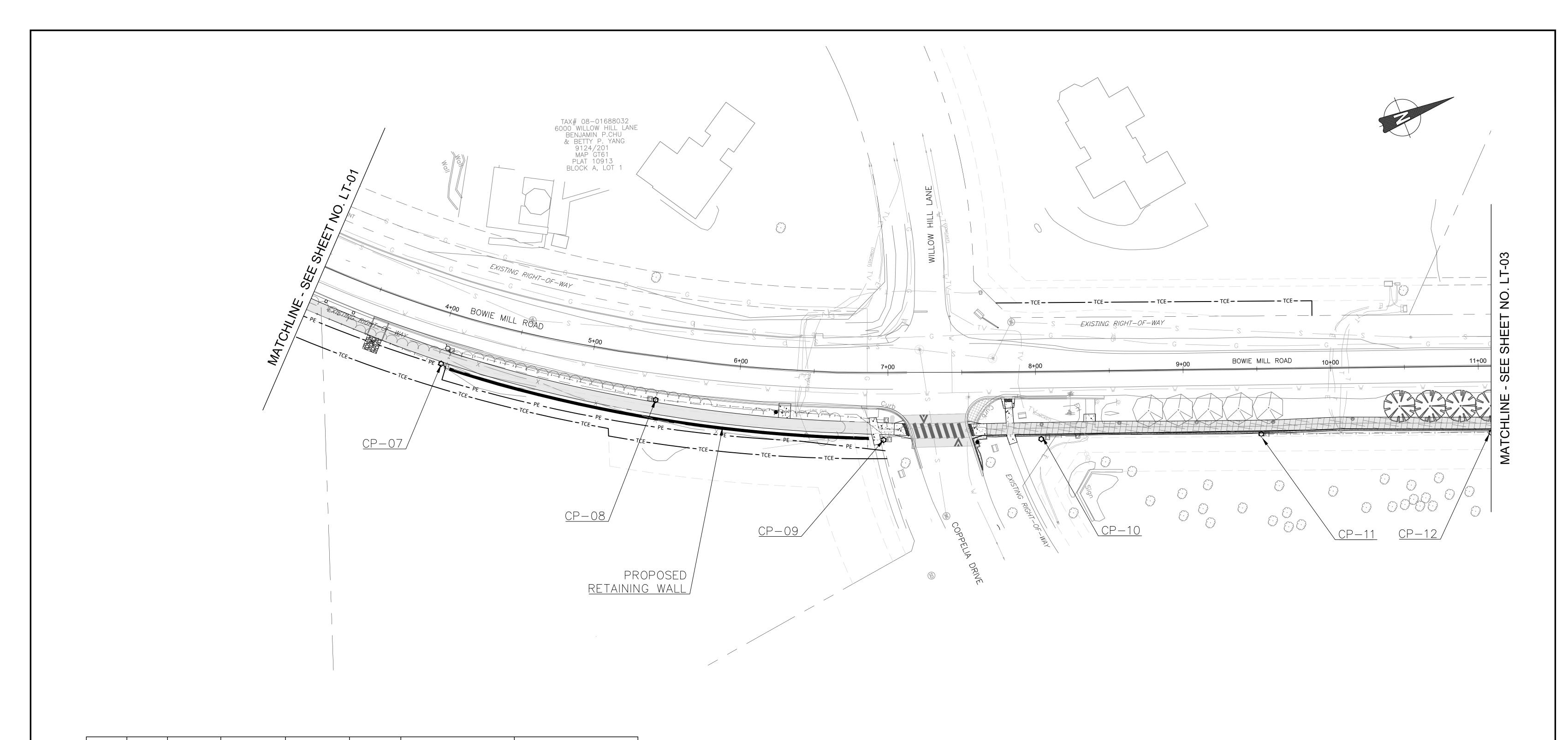
44' RT

32' RT

32' RT

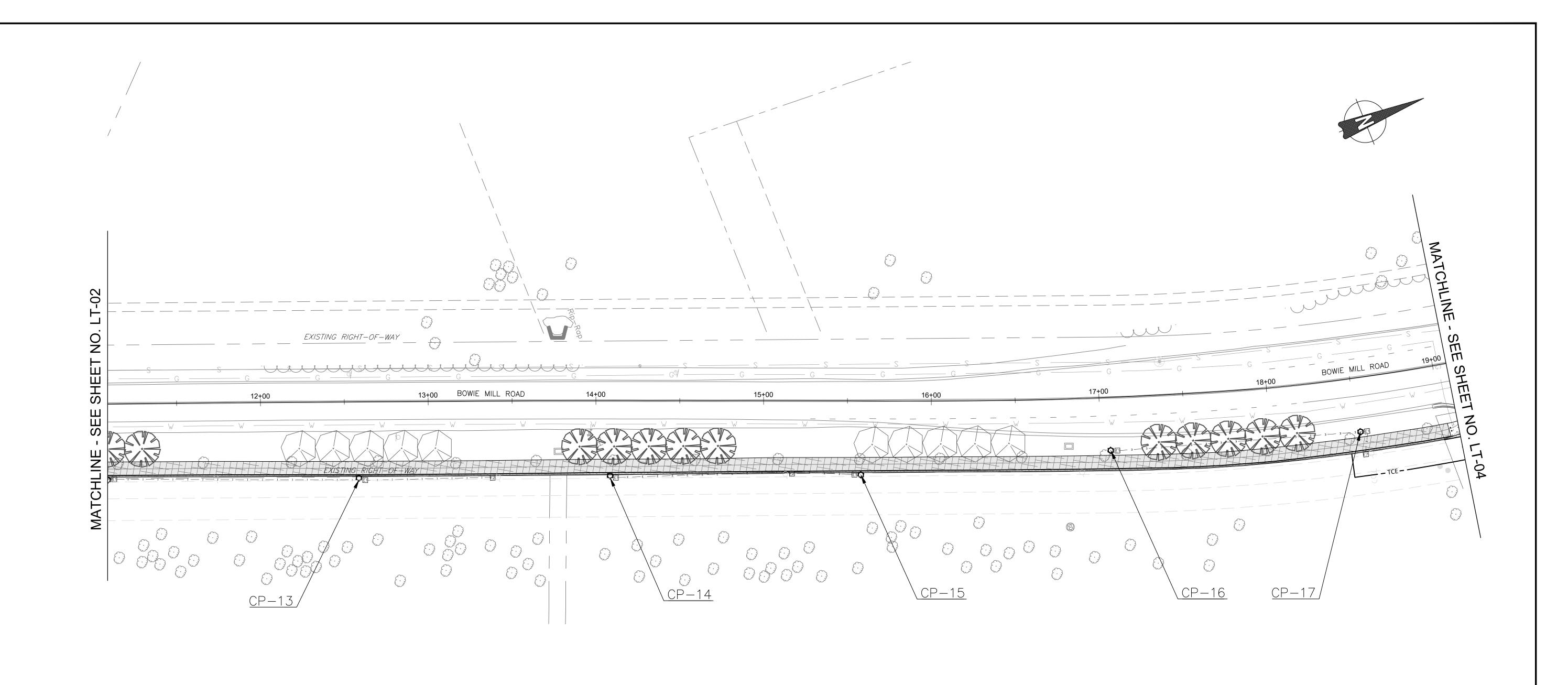






POLE#	STATION	OFFSET	STREET NAME	WATTAGE	LAMP TYPE	LUMINAIRE STYLE	POLE STYLE
7	4+04	36' RT	BOWIE MILL	70	LED	PROPOSED COLONIAL POST	PROPOSED BLACK FIBERGLASS
8	5+46	29' RT	BOWIE MILL	70	LED	PROPOSED COLONIAL POST	PROPOSED BLACK FIBERGLASS
9	6+97	46' RT	BOWIE MILL	70	LED	PROPOSED COLONIAL POST	PROPOSED BLACK FIBERGLASS
10	8+04	46' RT	BOWIE MILL	70	LED	PROPOSED COLONIAL POST	PROPOSED BLACK FIBERGLASS
11	9+50	46' RT	BOWIE MILL	70	LED	PROPOSED COLONIAL POST	PROPOSED BLACK FIBERGLASS
12	11+09	45' RT	BOWIE MILL	70	LED	PROPOSED COLONIAL POST	PROPOSED BLACK FIBERGLASS

LT-02 <u>LIGHTING LEGEND</u> 90% DESIGN **LIGHTING NOTES:** MONTGOMERY COUNTY LIGHTING PLAN DEPARTMENT OF TRANSPORTATION NOT FOR CONSTRUCTION PROPOSED LED COLONIAL POST PEDESTRIAN LIGHT POLE GAITHERSBURG, MARYLAND 1. SHEETS LT-01 THRU LT-13 IS WITHIN THE UPPER ROCK CREEK SPECIAL PROTECTION AREA BOWIE MILL ROAD ALL UTILITY CONFLICTS AND RELOCATIONS WILL REQUIRE COORDINATION WITH THE APPROPRIATE UTILITY COMPANIES. RECOMMENDED FOR APPROVAL 3. PROPOSED LIGHTING POLES TO BE CABLED AND POWERED BY PEPCO. BIKEWAY 12" x 24" HANDHOLE 4. ALL PROPOSED LIGHTING SHALL INCORPORATE LED LUMINAIRES. SEE LANDSCAPING PLANS FOR EXISTING TREES TO BE REMOVED. M-NCPPC PERMIT NO. MR2023016 SHA TRACKING NO. 24APMO039XX Chief, Design Section Date 17" × 30" HANDHOLE CONTRACTOR TO PROVIDE LIGHT POLES, FOUNDATIONS, FIXTURES, HANDHOLES, AND CONDUIT APPROVED FOR PEDESTRIAN LIGHTING. PEPCO TO RUN WIRING FROM SOURCE POLES AND SPLICE INTO (2) 4" SCHEDULE PROVIDED POLES/ LUMINAIRES AT LOCATIONS NOTED ON PLANS. 40 PVC CONDUIT CONDUIT TO BE DIRECT BURIED. CONDUIT TO BE CONCRETE ENCASED WHEN LOCATED BENEATH PAVEMENT. Chief, Division of Transportation Engineering SCALE: 1"=30' DATE: APRIL 2025 8. SEE DWG LT-26 FOR PEPCO CONDITIONS. POLE NUMBER Designed by: CJS Drawn by: CJS Checked by: DJD Project No. : 502108 Sheet <u>231</u> of <u>393</u> 9. ROADWAY UTILITY POLE LUMINAIRES TO BE UPGRADED TO LED, TO BE COORDINATED WITH/COMPLETED BY PEPCO. NO. DATE BY REVISION



LT-03

LIGHTING PLAN

BOWIE MILL ROAD

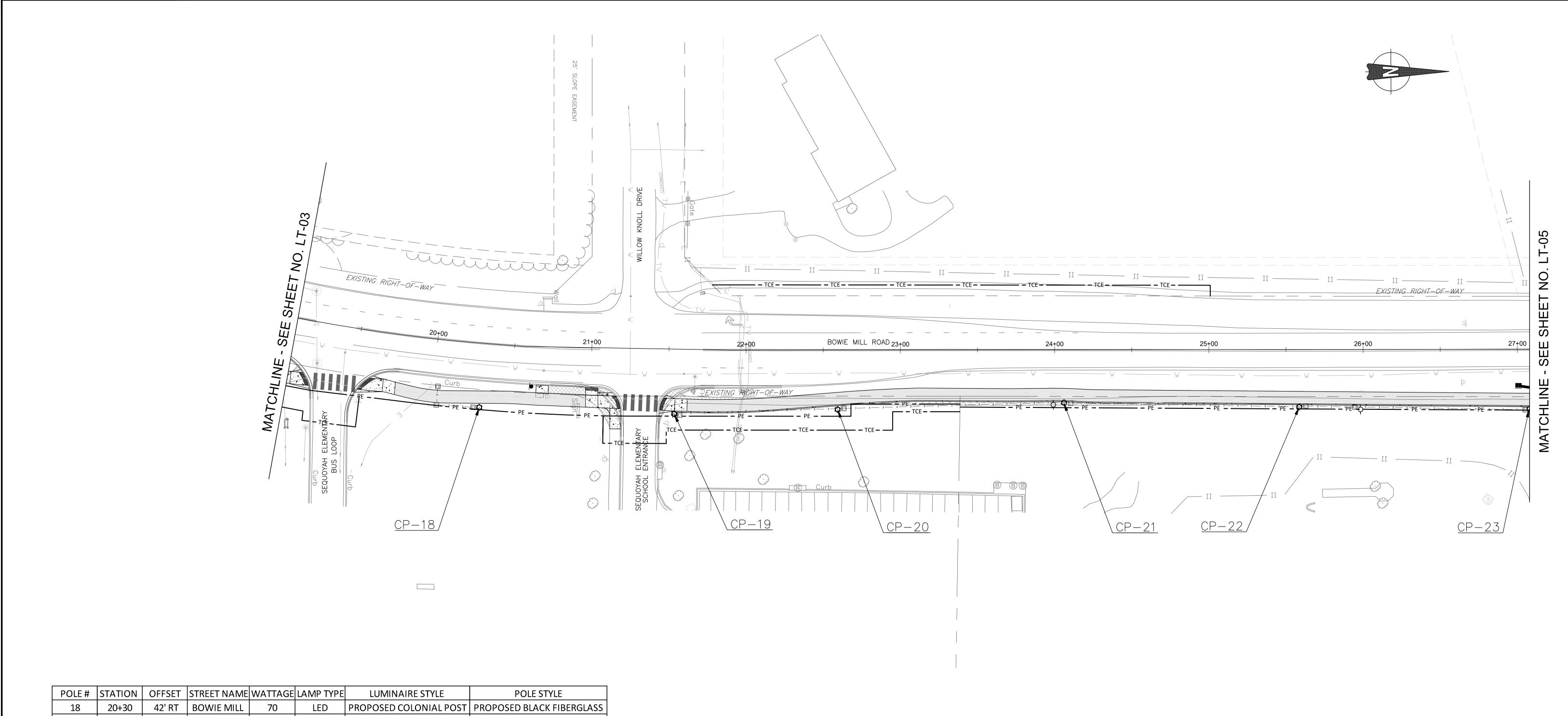
BIKEWAY

DATE: APRIL 2025

Sheet <u>232</u> of <u>393</u>

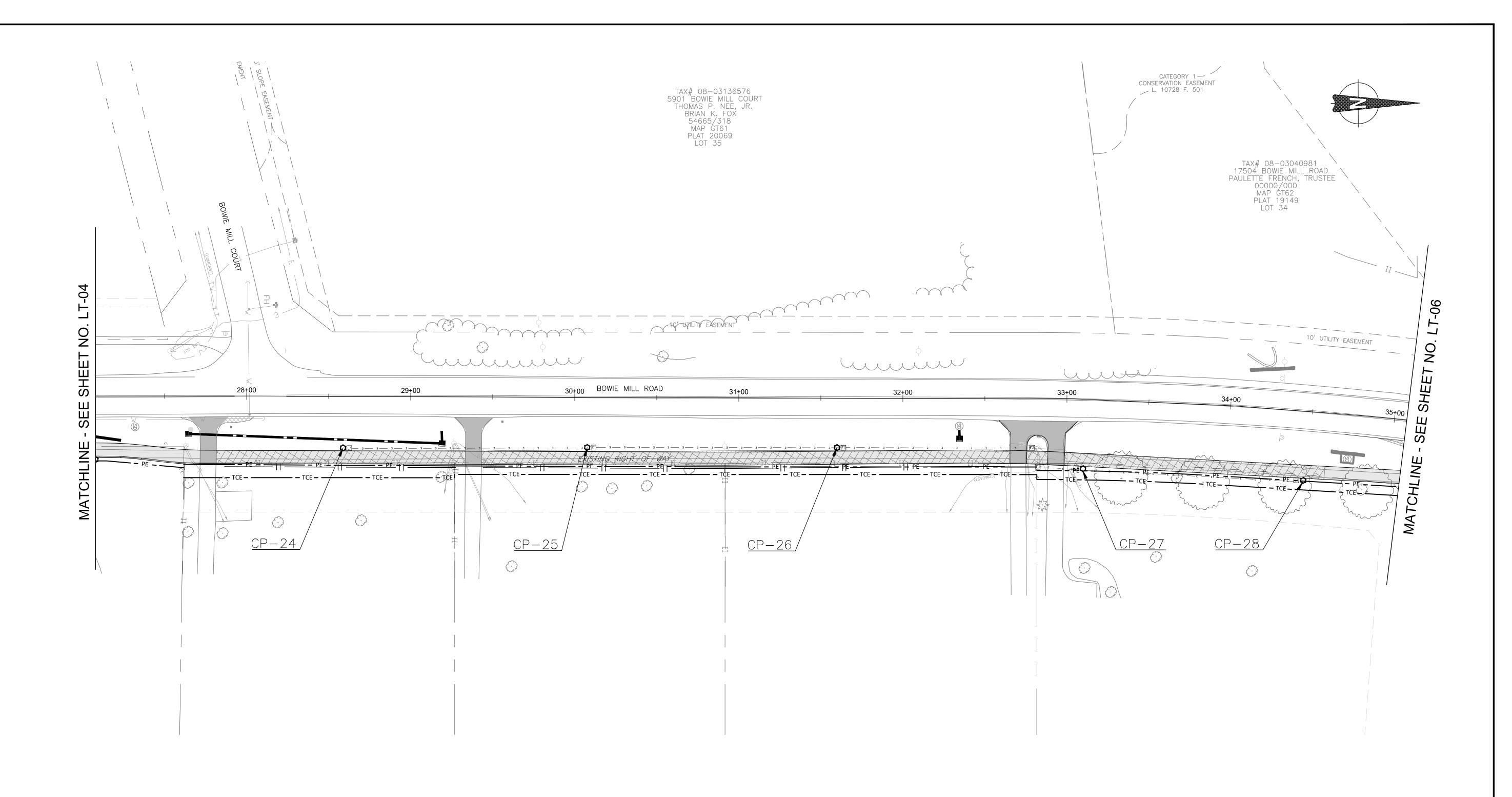
POLE#	STATION	OFFSET	STREET NAME	WATTAGE	LAMP TYPE	LUMINAIRE STYLE	POLE STYLE
13	12+59	46' RT	BOWIE MILL	70	LED	PROPOSED COLONIAL POST	PROPOSED BLACK FIBERGLASS
14	14+09	43' RT	BOWIE MILL	70	LED	PROPOSED COLONIAL POST	PROPOSED BLACK FIBERGLASS
15	15+52	44' RT	BOWIE MILL	70	LED	PROPOSED COLONIAL POST	PROPOSED BLACK FIBERGLASS
16	17+06	32' RT	BOWIE MILL	70	LED	PROPOSED COLONIAL POST	PROPOSED BLACK FIBERGLASS
17	18+52	32' RT	BOWIE MILL	70	LED	PROPOSED COLONIAL POST	PROPOSED BLACK FIBERGLASS

90% DESIGN <u>LIGHTING LEGEND</u> MONTGOMERY COUNTY **LIGHTING NOTES:** DEPARTMENT OF TRANSPORTATION NOT FOR CONSTRUCTION PROPOSED LED COLONIAL POST PEDESTRIAN LIGHT POLE 1. SHEETS LT-01 THRU LT-13 IS WITHIN THE UPPER ROCK CREEK SPECIAL PROTECTION AREA GAITHERSBURG, MARYLAND 2. ALL UTILITY CONFLICTS AND RELOCATIONS WILL REQUIRE COORDINATION WITH THE APPROPRIATE UTILITY COMPANIES. RECOMMENDED FOR APPROVAL 3. PROPOSED LIGHTING POLES TO BE CABLED AND POWERED BY PEPCO. 12" x 24" HANDHOLE 4. ALL PROPOSED LIGHTING SHALL INCORPORATE LED LUMINAIRES. 5. SEE LANDSCAPING PLANS FOR EXISTING TREES TO BE REMOVED. M-NCPPC PERMIT NO. MR2023016 SHA TRACKING NO. 24APMO039XX Chief, Design Section Date 17" x 30" HANDHOLE 6. CONTRACTOR TO PROVIDE LIGHT POLES, FOUNDATIONS, FIXTURES, HANDHOLES, AND CONDUIT APPROVED FOR PEDESTRIAN LIGHTING. PEPCO TO RUN WIRING FROM SOURCE POLES AND SPLICE INTO (2) 4" SCHEDULE 40 PVC CONDUIT PROVIDED POLES/ LUMINAIRES AT LOCATIONS NOTED ON PLANS. 7. CONDUIT TO BE DIRECT BURIED. CONDUIT TO BE CONCRETE ENCASED WHEN LOCATED BENEATH PAVEMENT. Chief, Division of Transportation Engineering SCALE: 1"=30' 8. SEE DWG LT-26 FOR PEPCO CONDITIONS. POLE NUMBER Drawn by: CJS Checked by: DJD Designed by: CJS Project No. : __502108__ 9. ROADWAY UTILITY POLE LUMINAIRES TO BE UPGRADED TO LED, TO BE COORDINATED WITH/COMPLETED BY PEPCO. NO. DATE BY REVISION



POLE#	STATION	OFFSET	STREET NAME	WATTAGE	LAMP TYPE	LUMINAIRE STYLE	POLE STYLE
18	20+30	42' RT	BOWIE MILL	70	LED	PROPOSED COLONIAL POST	PROPOSED BLACK FIBERGLASS
19	21+54	42' RT	BOWIE MILL	70	LED	PROPOSED COLONIAL POST	PROPOSED BLACK FIBERGLASS
20	22+59	39' RT	BOWIE MILL	70	LED	PROPOSED COLONIAL POST	PROPOSED BLACK FIBERGLASS
21	24+06	35' RT	BOWIE MILL	70	LED	PROPOSED COLONIAL POST	PROPOSED BLACK FIBERGLASS
22	25+59	37' RT	BOWIE MILL	70	LED	PROPOSED COLONIAL POST	PROPOSED BLACK FIBERGLASS
23	27+08	39' RT	BOWIE MILL	70	LED	PROPOSED COLONIAL POST	PROPOSED BLACK FIBERGLASS

LIGHTING LEGEND PROPOSED LED COLONIAL POST PEDESTRIAN LIGHT POLE	LIGHTING NOTES: 1. SHEETS LT-01 THRU LT-13 IS WITHIN THE UPPER ROCK CREEK SPECIAL PROTECTION AREA	90% DESIGN NOT FOR CONSTRUCTION		MONTGOMERY COUNTY DEPARTMENT OF TRANSPORTATION GAITHERSBURG, MARYLAND		LT-04 LIGHTING PLAN DOWNER MILL DOAD	
E1 12" × 24" HANDHOLE 17" × 30" HANDHOLE	 ALL UTILITY CONFLICTS AND RELOCATIONS WILL REQUIRE COORDINATION WITH THE APPROPRIATE UTILITY COMPANIES. PROPOSED LIGHTING POLES TO BE CABLED AND POWERED BY PEPCO. ALL PROPOSED LIGHTING SHALL INCORPORATE LED LUMINAIRES. SEE LANDSCAPING PLANS FOR EXISTING TREES TO BE REMOVED. CONTRACTOR TO PROVIDE LIGHT POLES, FOUNDATIONS, FIXTURES, HANDHOLES, AND CONDUIT FOR PEDESTRIAN LIGHTING. PEPCO TO RUN WIRING FROM SOURCE POLES AND SPLICE INTO 			RECOMMENDED FOR APPROVAL Chief, Design Section APPROVED	Date	BOWIE MILL ROAD BIKEWAY M-NCPPC PERMIT NO. MR2023016 SHA TRACKING NO. 24APMO039XX 0 30' 60'	
— E — (2) 4" SCHEDULE 40 PVC CONDUIT CP-XX POLE NUMBER	PROVIDED POLES/ LUMINAIRES AT LOCATIONS NOTED ON PLANS. 7. CONDUIT TO BE DIRECT BURIED. CONDUIT TO BE CONCRETE ENCASED WHEN LOCATED BENEATH PAVEMENT. 8. SEE DWG LT-26 FOR PEPCO CONDITIONS. 9. ROADWAY UTILITY POLE LUMINAIRES TO BE UPGRADED TO LED, TO BE COORDINATED WITH/COMPLETED BY PEPCO.		NO. REVISION DATE BY	Chief, Division of Transportation Engineering Designed by: CJS Drawn by: CJS Check	Date	SCALE: 1"=30' DATE: APRIL 2025 Project No. :502108 Sheet233 of393	



POLE#	STATION	OFFSET	STREET NAME	WATTAGE	LAMP TYPE	LUMINAIRE STYLE	POLE STYLE
23	27+08	39' RT	BOWIE MILL	70	LED	PROPOSED COLONIAL POST	PROPOSED BLACK FIBERGLASS
24	28+59	31' RT	BOWIE MILL	70	LED	PROPOSED COLONIAL POST	PROPOSED BLACK FIBERGLASS
25	30+08	31' RT	BOWIE MILL	70	LED	PROPOSED COLONIAL POST	PROPOSED BLACK FIBERGLASS
26	31+60	30' RT	BOWIE MILL	70	LED	PROPOSED COLONIAL POST	PROPOSED BLACK FIBERGLASS
27	33+11	42' RT	BOWIE MILL	70	LED	PROPOSED COLONIAL POST	PROPOSED BLACK FIBERGLASS
28	34+47	42' RT	BOWIE MILL	70	LED	PROPOSED COLONIAL POST	PROPOSED BLACK FIBERGLASS

<u>LIGHTING LEGEND</u>

PROPOSED LED COLONIAL POST PEDESTRIAN LIGHT POLE

E1

17" x 30" HANDHOLE

(2) 4" SCHEDULE

POLE NUMBER

40 PVC CONDUIT

12" x 24" HANDHOLE

LIGHTING NOTES:

- 1. SHEETS LT-01 THRU LT-13 IS WITHIN THE UPPER ROCK CREEK SPECIAL PROTECTION AREA
- 2. ALL UTILITY CONFLICTS AND RELOCATIONS WILL REQUIRE COORDINATION WITH THE APPROPRIATE UTILITY COMPANIES.
- 3. PROPOSED LIGHTING POLES TO BE CABLED AND POWERED BY PEPCO.
- 4. ALL PROPOSED LIGHTING SHALL INCORPORATE LED LUMINAIRES.
 5. SEE LANDSCAPING PLANS FOR EXISTING TREES TO BE REMOVED.
- 6. CONTRACTOR TO PROVIDE LIGHT POLES, FOUNDATIONS, FIXTURES, HANDHOLES, AND CONDUIT FOR PEDESTRIAN LIGHTING. PEPCO TO RUN WIRING FROM SOURCE POLES AND SPLICE INTO PROVIDED POLES/ LUMINAIRES AT LOCATIONS NOTED ON PLANS.
- 7. CONDUIT TO BE DIRECT BURIED. CONDUIT TO BE CONCRETE ENCASED WHEN LOCATED BENEATH PAVEMENT. 8. SEE DWG LT-26 FOR PEPCO CONDITIONS.
- 9. ROADWAY UTILITY POLE LUMINAIRES TO BE UPGRADED TO LED, TO BE COORDINATED WITH/COMPLETED BY PEPCO.

90% DESIGN NOT FOR CONSTRUCTION

REVISION	DATE	BY

MONTGOMERY COUNTY
DEPARTMENT OF TRANSPORTATION
GAITHERSBURG, MARYLAND

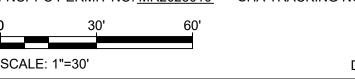
RECOMMENDED FOR APPROVAL

Chief, Design Section
APPROVED

Chief, Division of Transportation Engineering
Date

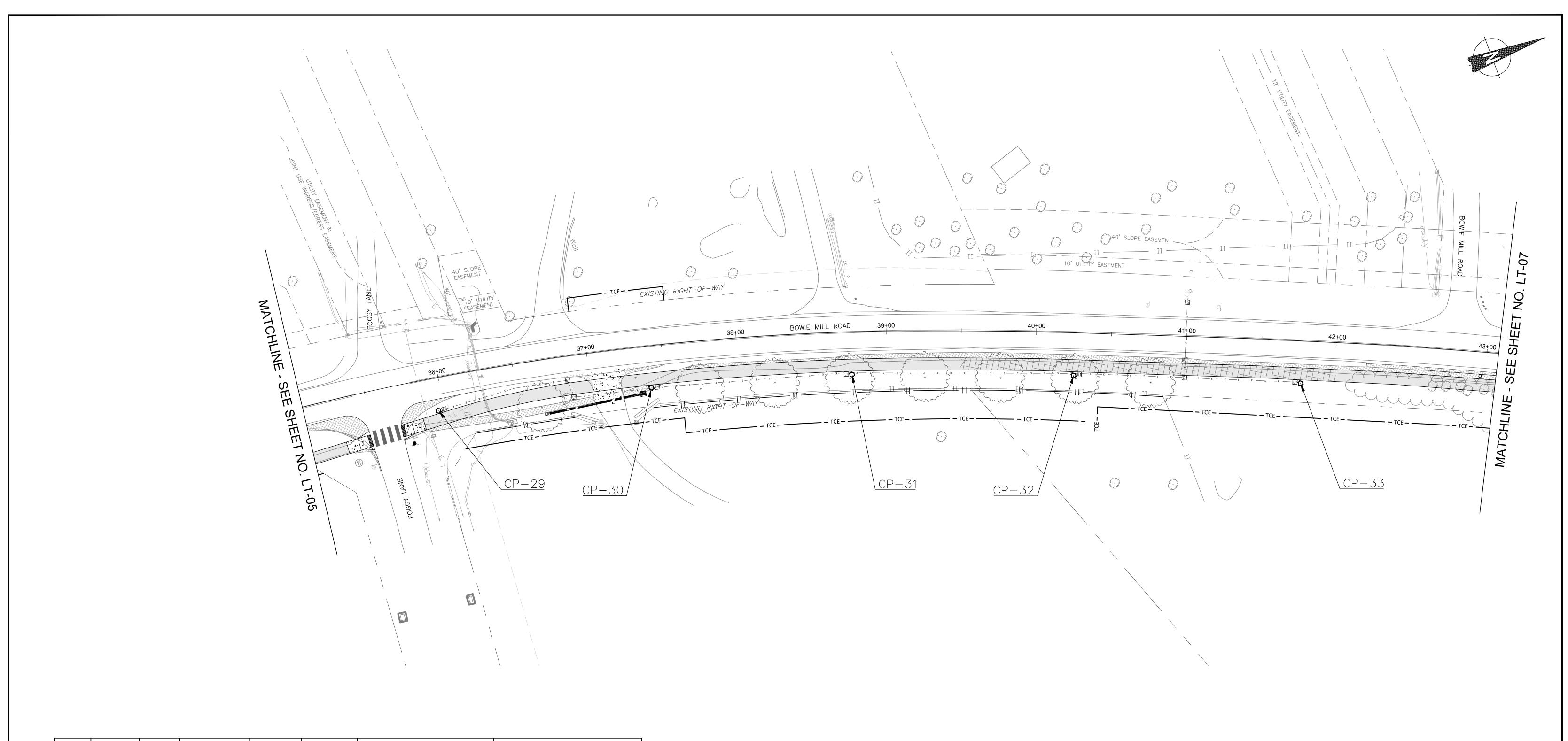
Designed by: CJS Drawn by: CJS Checked by: DJD

LT-05
LIGHTING PLAN
BOWIE MILL ROAD
BIKEWAY
M-NCPPC PERMIT NO. MR2023016 SHA TRACKING NO. 24APM0039XX



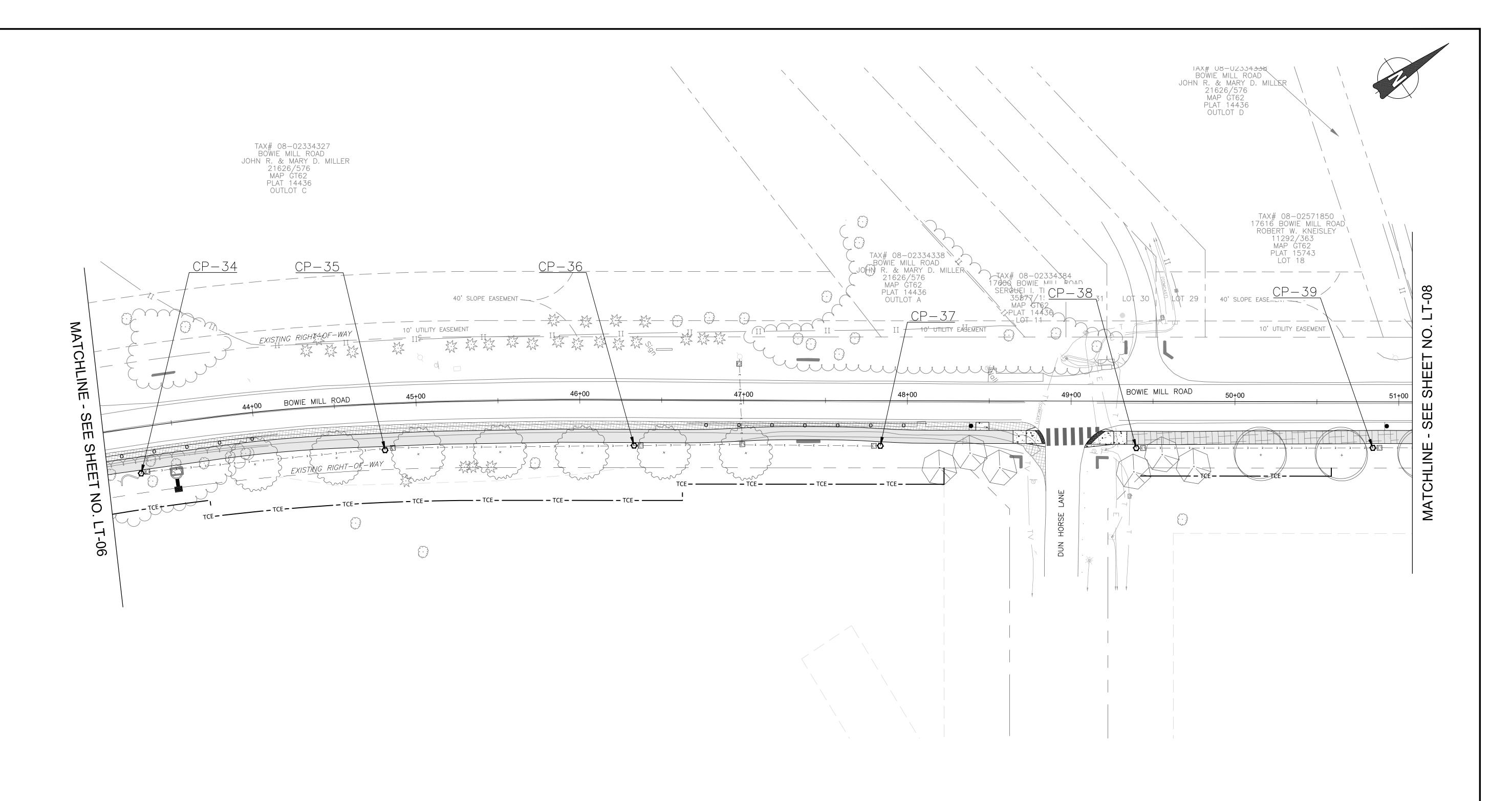
 SCALE: 1"=30'
 DATE: APRIL 2025

 Project No. : __502108
 Sheet __234 __ of __393



POLE#	STATION	OFFSET	STREET NAME	WATTAGE	LAMP TYPE	LUMINAIRE STYLE	POLE STYLE
29	35+96	22' RT	BOWIE MILL	70	LED	PROPOSED COLONIAL POST	PROPOSED BLACK FIBERGLASS
30	37+44	28' RT	BOWIE MILL	70	LED	PROPOSED COLONIAL POST	PROPOSED BLACK FIBERGLASS
31	38+76	27' RT	BOWIE MILL	70	LED	PROPOSED COLONIAL POST	PROPOSED BLACK FIBERGLASS
32	40+26	28' RT	BOWIE MILL	70	LED	PROPOSED COLONIAL POST	PROPOSED BLACK FIBERGLASS
33	41+77	28' RT	BOWIE MILL	70	LED	PROPOSED COLONIAL POST	PROPOSED BLACK FIBERGLASS

<u>LIGHTING</u>	LEGEND PROPOSED LED COLONIAL POST PEDESTRIAN LIGHT POLE	LIGHTING NOTES: 1. SHEETS LT-01 THRU LT-13 IS WITHIN THE UPPER ROCK CREEK SPECIAL PROTECTION AREA	90% DESIGN NOT FOR CONSTRUCTION		MONTGOMERY COUNTY DEPARTMENT OF TRANSPORTATION GAITHERSBURG, MARYLAND	LT-06 LIGHTING PLAN
E1 E2	12" x 24" HANDHOLE 17" x 30" HANDHOLE (2) 4" SCHEDULE 40 PVC CONDUIT	 ALL UTILITY CONFLICTS AND RELOCATIONS WILL REQUIRE COORDINATION WITH THE APPROPRIATE UTILITY COMPANIES. PROPOSED LIGHTING POLES TO BE CABLED AND POWERED BY PEPCO. ALL PROPOSED LIGHTING SHALL INCORPORATE LED LUMINAIRES. SEE LANDSCAPING PLANS FOR EXISTING TREES TO BE REMOVED. CONTRACTOR TO PROVIDE LIGHT POLES, FOUNDATIONS, FIXTURES, HANDHOLES, AND CONDUIT FOR PEDESTRIAN LIGHTING. PEPCO TO RUN WIRING FROM SOURCE POLES AND SPLICE INTO PROVIDED POLES/ LUMINAIRES AT LOCATIONS NOTED ON PLANS. 			RECOMMENDED FOR APPROVAL Chief, Design Section Date APPROVED	BOWIE MILL ROAD BIKEWAY M-NCPPC PERMIT NO. MR2023016 SHA TRACKING NO. 24APMO039XX 0 30' 60'
— E — <u>СР-ХХ</u>	40 PVC CONDUIT POLE NUMBER	7. CONDUIT TO BE DIRECT BURIED. CONDUIT TO BE CONCRETE ENCASED WHEN LOCATED BENEATH PAVEMENT. 8. SEE DWG LT-26 FOR PEPCO CONDITIONS. 9. ROADWAY UTILITY POLE LUMINAIRES TO BE UPGRADED TO LED, TO BE COORDINATED WITH/COMPLETED BY PEPCO.		NO. REVISION DATE BY	Chief, Division of Transportation Engineering Designed by: CJS Drawn by: CJS Checked by: DJD	SCALE: 1"=30' DATE: APRIL 2025 Project No. :502108 Sheet235 of393



POLE#	STATION	OFFSET	STREET NAME	WATTAGE	LAMP TYPE	LUMINAIRE STYLE	POLE STYLE
34	43+28	28' RT	BOWIE MILL	70	LED	PROPOSED COLONIAL POST	PROPOSED BLACK FIBERGLASS
35	44+80	27' RT	BOWIE MILL	70	LED	PROPOSED COLONIAL POST	PROPOSED BLACK FIBERGLASS
36	46+33	28' RT	BOWIE MILL	70	LED	PROPOSED COLONIAL POST	PROPOSED BLACK FIBERGLASS
37	47+84	28' RT	BOWIE MILL	70	LED	PROPOSED COLONIAL POST	PROPOSED BLACK FIBERGLASS
38	49+40	29' RT	BOWIE MILL	70	LED	PROPOSED COLONIAL POST	PROPOSED BLACK FIBERGLASS
39	50+84	28' RT	BOWIE MILL	70	LED	PROPOSED COLONIAL POST	PROPOSED BLACK FIBERGLASS

<u>LIGHTING LEGEND</u>

PROPOSED LED COLONIAL POST PEDESTRIAN LIGHT POLE

POLE NUMBER

12" x 24" HANDHOLE

17" x 30" HANDHOLE (2) 4" SCHEDULE 40 PVC CONDUIT **LIGHTING NOTES:**

1. SHEETS LT-01 THRU LT-13 IS WITHIN THE UPPER ROCK CREEK SPECIAL PROTECTION AREA

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

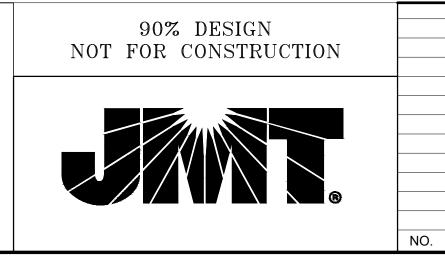
PROPOSED LIGHTING POLES TO BE CABLED AND POWERED BY PEPCO. 4. ALL PROPOSED LIGHTING SHALL INCORPORATE LED LUMINAIRES.

5. SEE LANDSCAPING PLANS FOR EXISTING TREES TO BE REMOVED.

6. CONTRACTOR TO PROVIDE LIGHT POLES, FOUNDATIONS, FIXTURES, HANDHOLES, AND CONDUIT FOR PEDESTRIAN LIGHTING. PEPCO TO RUN WIRING FROM SOURCE POLES AND SPLICE INTO

PROVIDED POLES/ LUMINAIRES AT LOCATIONS NOTED ON PLANS. 7. CONDUIT TO BE DIRECT BURIED. CONDUIT TO BE CONCRETE ENCASED WHEN LOCATED BENEATH PAVEMENT.

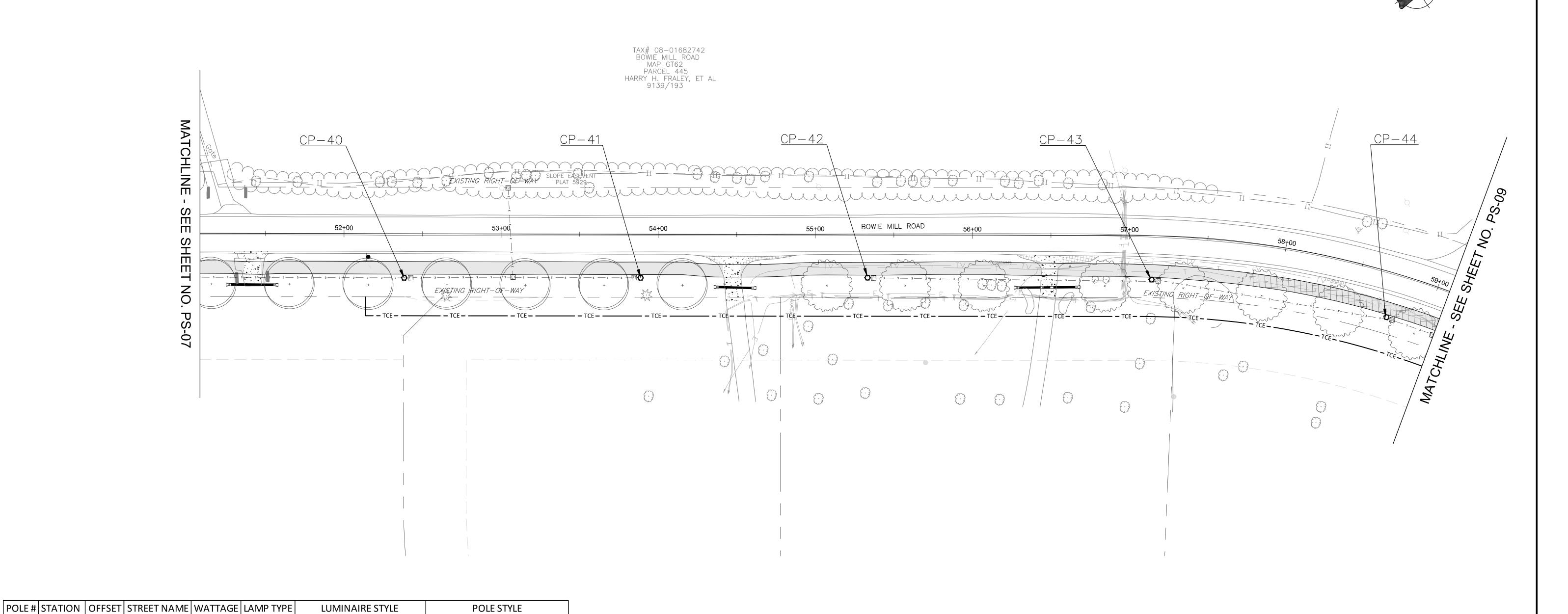
8. SEE DWG LT-26 FOR PEPCO CONDITIONS. 9. ROADWAY UTILITY POLE LUMINAIRES TO BE UPGRADED TO LED, TO BE COORDINATED WITH/COMPLETED BY PEPCO.



REVISION

	MONTGOMERY COUNTY DEPARTMENT OF TRANSPORTATION GAITHERSBURG, MARYLAND	
	RECOMMENDED FOR APPROVAL	
	Chief, Design Section Date APPROVED	M
	Chief, Division of Transportation Engineering Date	
DATE BY	Designed by: CJS Drawn by: CJS Checked by: DJD	F

LT-07 LIGHTING PLAN BOWIE MILL ROAD BIKEWAY M-NCPPC PERMIT NO. MR2023016 SHA TRACKING NO. 24APMO039XX SCALE: 1"=30' DATE: APRIL 2025 Sheet <u>236</u> of <u>393</u> Project No. : <u>502108</u>



IGHTING	LEGEND	<u>LIGHTING NOTES:</u>	90% DESIGN			MONTGOMERY COUNTY DEPARTMENT OF TRANSPORTATION	N		T-08
$\dot{\mathbf{D}}$	PROPOSED LED COLONIAL POST PEDESTRIAN LIGHT POLE	1. SHEETS LT-01 THRU LT-13 IS WITHIN THE UPPER ROCK CREEK SPECIAL PROTECTION AREA	NOT FOR CONSTRUCTION			GAITHERSBURG, MARYLAND	· ·		NG PLAN
E4	12" x 24" HANDHOLE	 ALL UTILITY CONFLICTS AND RELOCATIONS WILL REQUIRE COORDINATION WITH THE APPROPRIATE UTILITY COMPANIES. PROPOSED LIGHTING POLES TO BE CABLED AND POWERED BY PEPCO. 				RECOMMENDED FOR APPROVAL			IILL ROAD
	17" × 30" HANDHOLE	 4. ALL PROPOSED LIGHTING SHALL INCORPORATE LED LUMINAIRES. 5. SEE LANDSCAPING PLANS FOR EXISTING TREES TO BE REMOVED. 6. CONTRACTOR TO PROVIDE LIGHT POLES, FOUNDATIONS, FIXTURES, HANDHOLES, AND CONDUIT 				Chief, Design Section	 Date	M-NCPPC PERMIT NO. MR2023016	${ m EWAY}_{_}$ sha tracking no. 24apmo039
 F	(2) 4" SCHEDULE	FOR PEDESTRIAN LIGHTING. PEPCO TO RUN WIRING FROM SOURCE POLES AND SPLICE INTO PROVIDED POLES/ LUMINAIRES AT LOCATIONS NOTED ON PLANS.				APPROVED		0 30' 60'	
	40 PVC CONDUIT	7. CONDUIT TO BE DIRECT BURIED. CONDUIT TO BE CONCRETE ENCASED WHEN LOCATED BENEATH PAVEMENT.				Chief, Division of Transportation Engineering	Date	SCALE: 1"=30'	DATE: APRIL 2
<u>CP-XX</u>	POLE NUMBER	8. SEE DWG LT-26 FOR PEPCO CONDITIONS. 9. ROADWAY UTILITY POLE LUMINAIRES TO BE UPGRADED TO LED, TO BE COORDINATED WITH/COMPLETED BY PEPCO.		NO REVISION	DATE BY	Designed by: CJS Drawn by: CJS Che	cked by: DJD	Project No. :502108	Sheet <u>237</u> of <u>3</u>

PROPOSED COLONIAL POST | PROPOSED BLACK FIBERGLASS

PROPOSED COLONIAL POST | PROPOSED BLACK FIBERGLASS |

52+38 | 28' RT | BOWIE MILL

53+89 | 28' RT | BOWIE MILL |

55+34 | 28' RT | BOWIE MILL |

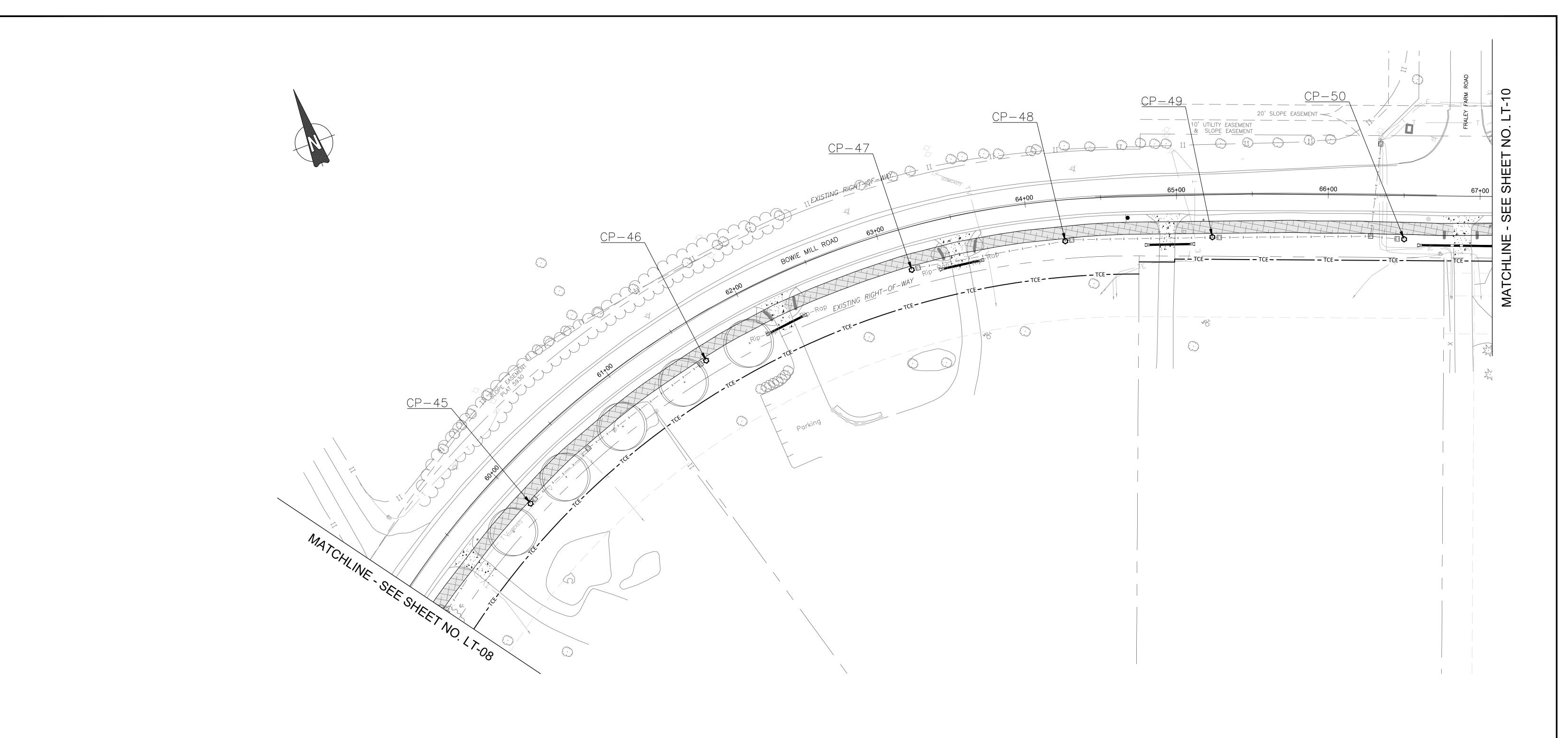
57+15 | 28' RT | BOWIE MILL

58+74 | 28' RT | BOWIE MILL |

70

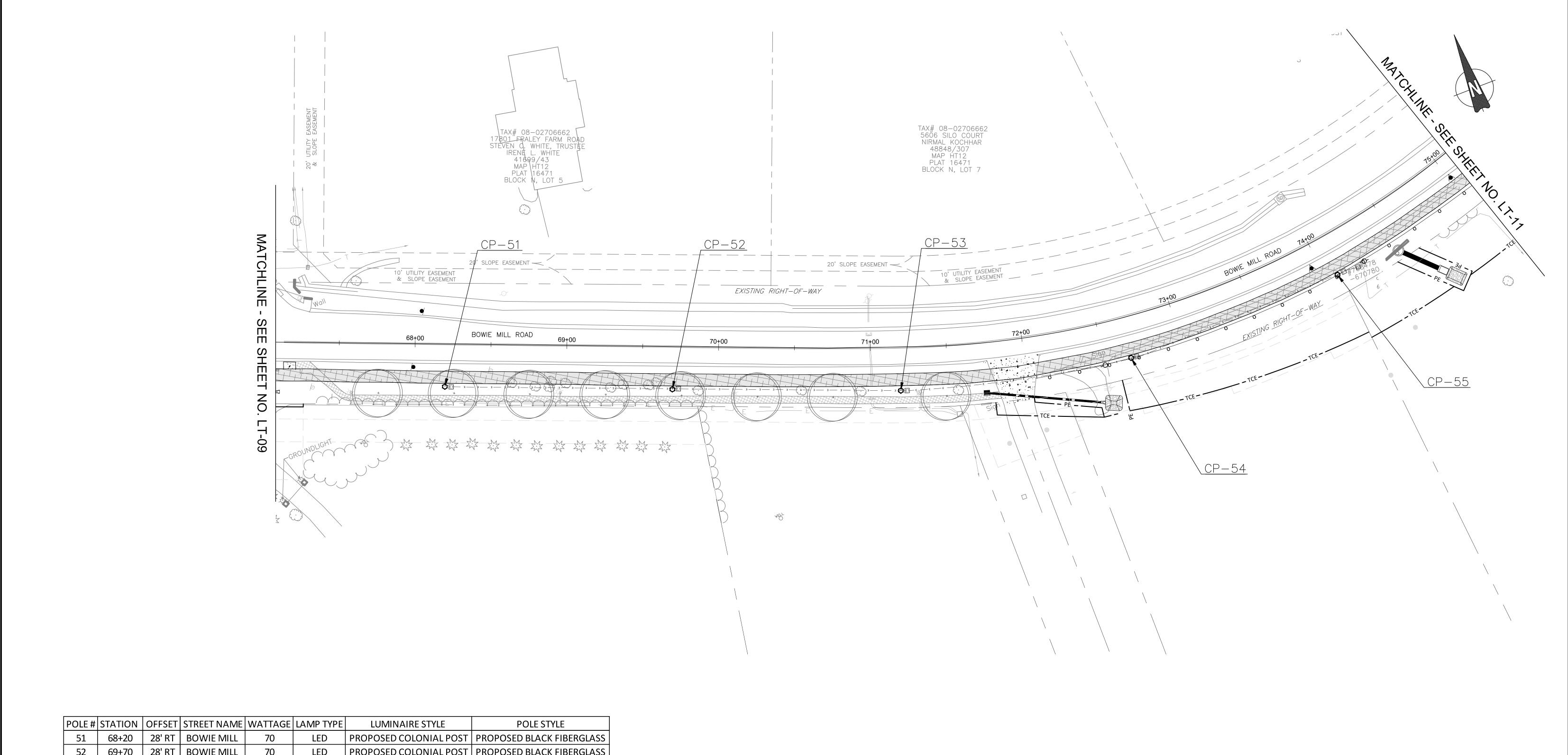
70

LED



POLE#	STATION	OFFSET	STREET NAME	WATTAGE	LAMP TYPE	LUMINAIRE STYLE	POLE STYLE
45	60+03	29' RT	BOWIE MILL	70	LED	PROPOSED COLONIAL POST	PROPOSED BLACK FIBERGLASS
46	61+60	29' RT	BOWIE MILL	70	LED	PROPOSED COLONIAL POST	PROPOSED BLACK FIBERGLASS
47	63+16	28' RT	BOWIE MILL	70	LED	PROPOSED COLONIAL POST	PROPOSED BLACK FIBERGLASS
48	64+24	27' RT	BOWIE MILL	70	LED	PROPOSED COLONIAL POST	PROPOSED BLACK FIBERGLASS
49	65+23	28' RT	BOWIE MILL	70	LED	PROPOSED COLONIAL POST	PROPOSED BLACK FIBERGLASS
50	66+51	29' RT	BOWIE MILL	70	LED	PROPOSED COLONIAL POST	PROPOSED BLACK FIBERGLASS

LIGHTING LEGEND PROPOSED PEDESTRIAN	LIGHTING NOTES: ED COLONIAL POST LIGHT POLE 1. SHEETS LT-01 THRU LT-13 IS WITHIN THE UPPER ROCK CREEK SPECIAL PROTECTION AREA	90% DESIGN NOT FOR CONSTRUCTION	MONTGOMERY COUNTY DEPARTMENT OF TRANSPORTATION GAITHERSBURG, MARYLAND	LT-09 LIGHTING PLAN
E1 12" x 24" E2 17" x 30" _ (2) 4" S0	5. SEE LANDSCAPING PLANS FOR EXISTING TREES TO BE REMOVED. HANDHOLE 6. CONTRACTOR TO PROVIDE LIGHT POLES, FOUNDATIONS, FIXTURES, HANDHOLES, AND CONDUIT FOR PEDESTRIAN LIGHTING, PEPCO TO RUN WIRING FROM SOURCE POLES AND SPLICE INTO	COMPANIES.	RECOMMENDED FOR APPROVAL Chief, Design Section APPROVED Date	BOWIE MILL ROAD BIKEWAY M-NCPPC PERMIT NO. MR2023016 SHA TRACKING NO. 24APMO039)
E (2) 4" SC 40 PV	8 SEE DWG LT 26 FOR REPCO CONDITIONS		Chief, Division of Transportation Engineering Date DATE BY Designed by: CJS Drawn by: CJS Checked by: Do	SCALE: 1"=30' DATE: APRIL 2



	1 0 11	317 (11014	5	STREET IVIC				1 0 22 31122
	51	68+20	28' RT	BOWIE MILL	70	LED	PROPOSED COLONIAL POST	PROPOSED BLACK FIBERGLASS
	52	69+70	28' RT	BOWIE MILL	70	LED	PROPOSED COLONIAL POST	PROPOSED BLACK FIBERGLASS
	53	71+20	29' RT	BOWIE MILL	70	LED	PROPOSED COLONIAL POST	PROPOSED BLACK FIBERGLASS
	54	72+67	27' RT	BOWIE MILL	70	LED	PROPOSED COLONIAL POST	PROPOSED BLACK FIBERGLASS
	55	74+07	27' RT	BOWIE MILL	70	LED	PROPOSED COLONIAL POST	PROPOSED BLACK FIBERGLASS
•								

<u>LIGHTING LEGEND</u>

PROPOSED LED COLONIAL POST PEDESTRIAN LIGHT POLE

E1

12" x 24" HANDHOLE

17" x 30" HANDHOLE

(2) 4" SCHEDULE
40 PVC CONDUIT

POLE NUMBER

LIGHTING NOTES:

1. SHEETS LT-01 THRU LT-13 IS WITHIN THE UPPER ROCK CREEK SPECIAL PROTECTION AREA

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

9. ROADWAY UTILITY POLE LUMINAIRES TO BE UPGRADED TO LED, TO BE COORDINATED WITH/COMPLETED BY PEPCO.

. PROPOSED LIGHTING POLES TO BE CABLED AND POWERED BY PEPCO.

4. ALL PROPOSED LIGHTING SHALL INCORPORATE LED LUMINAIRES.

SEE LANDSCAPING PLANS FOR EXISTING TREES TO BE REMOVED.
 CONTRACTOR TO PROVIDE LIGHT POLES, FOUNDATIONS, FIXTURES, HANDHOLES, AND CONDUIT FOR PEDESTRIAN LIGHTING. PEPCO TO RUN WIRING FROM SOURCE POLES AND SPLICE INTO

PROVIDED POLES/ LUMINAIRES AT LOCATIONS NOTED ON PLANS.

7. CONDUIT TO BE DIRECT BURIED. CONDUIT TO BE CONCRETE ENCASED WHEN LOCATED BENEATH PAVEMENT.

8. SEE DWG LT-26 FOR PEPCO CONDITIONS.

90% DESIGN

NOT FOR CONSTRUCTION

				MONTGOMERY COUNTY DEPARTMENT OF TRANSPORTATION GAITHERSBURG, MARYLAND	
				RECOMMENDED FOR APPROVAL	
				Chief, Design Section APPROVED	Date
				Chief, Division of Transportation Engineering	 Date
).	REVISION	DATE	BY	Designed by: CJS Drawn by: CJS Chec	ked by:DJD

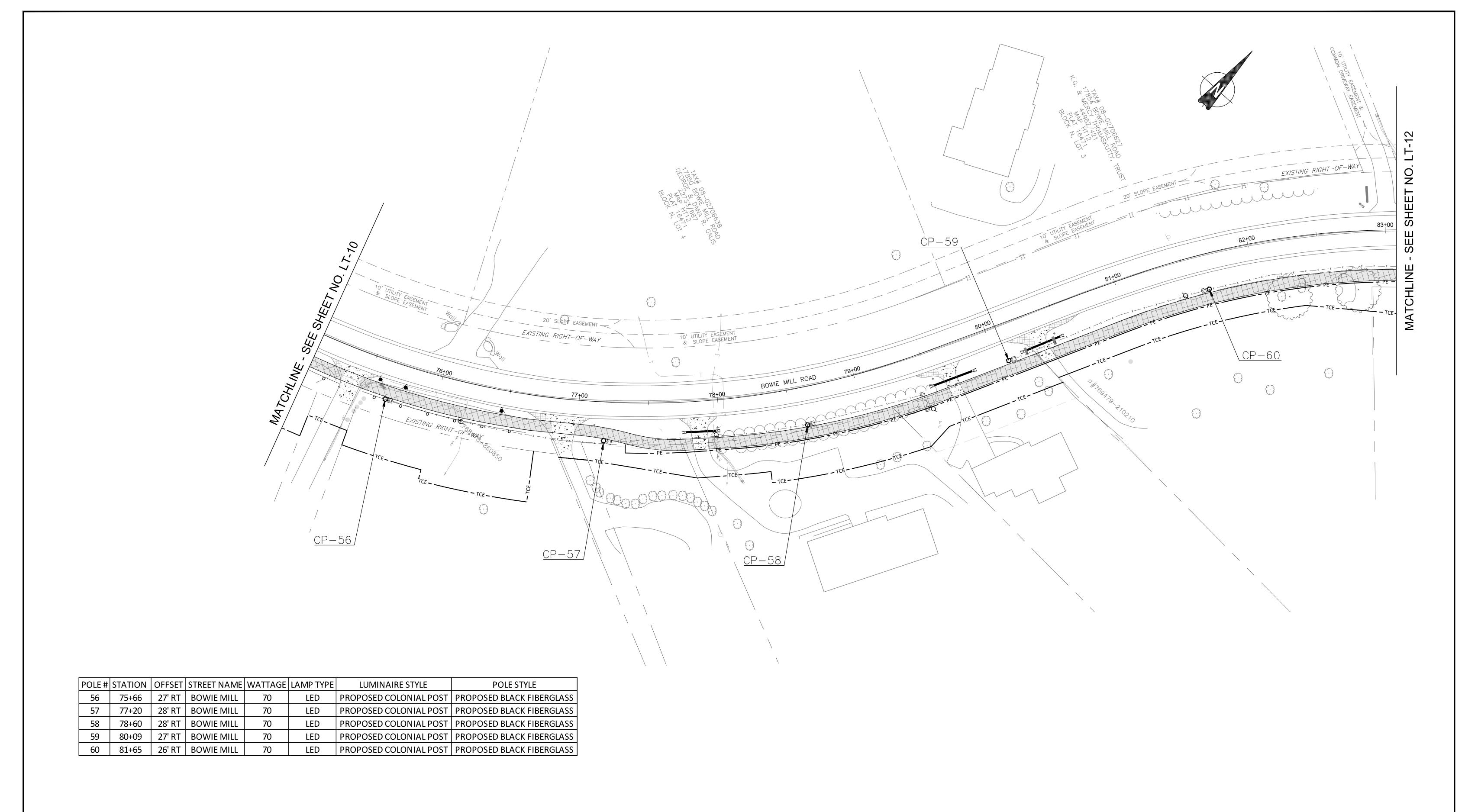
LT-10
LIGHTING PLAN
BOWIE MILL ROAD
BIKEWAY

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

0 30' 60'

 SCALE: 1"=30'
 DATE: APRIL 2025

 Project No. : __502108
 Sheet __239 __ of __393



<u>LIGHTING LEGEND</u>

PROPOSED LED COLONIAL POST PEDESTRIAN LIGHT POLE

40 PVC CONDUIT

12" x 24" HANDHOLE

POLE NUMBER

17" x 30" HANDHOLE (2) 4" SCHEDULE

LIGHTING NOTES:

- SHEETS LT-01 THRU LT-13 IS WITHIN THE UPPER ROCK CREEK SPECIAL PROTECTION AREA
- ALL UTILITY CONFLICTS AND RELOCATIONS WILL REQUIRE COORDINATION WITH THE APPROPRIATE UTILITY COMPANIES.
- PROPOSED LIGHTING POLES TO BE CABLED AND POWERED BY PEPCO. ALL PROPOSED LIGHTING SHALL INCORPORATE LED LUMINAIRES.
- SEE LANDSCAPING PLANS FOR EXISTING TREES TO BE REMOVED.
- CONTRACTOR TO PROVIDE LIGHT POLES, FOUNDATIONS, FIXTURES, HANDHOLES, AND CONDUIT FOR PEDESTRIAN LIGHTING. PEPCO TO RUN WIRING FROM SOURCE POLES AND SPLICE INTO
- PROVIDED POLES/ LUMINAIRES AT LOCATIONS NOTED ON PLANS. CONDUIT TO BE DIRECT BURIED. CONDUIT TO BE CONCRETE ENCASED WHEN LOCATED BENEATH PAVEMENT.
- 8. SEE DWG LT-26 FOR PEPCO CONDITIONS. 9. ROADWAY UTILITY POLE LUMINAIRES TO BE UPGRADED TO LED, TO BE COORDINATED WITH/COMPLETED BY PEPCO.

NOT FOR	CONSTRUCTION
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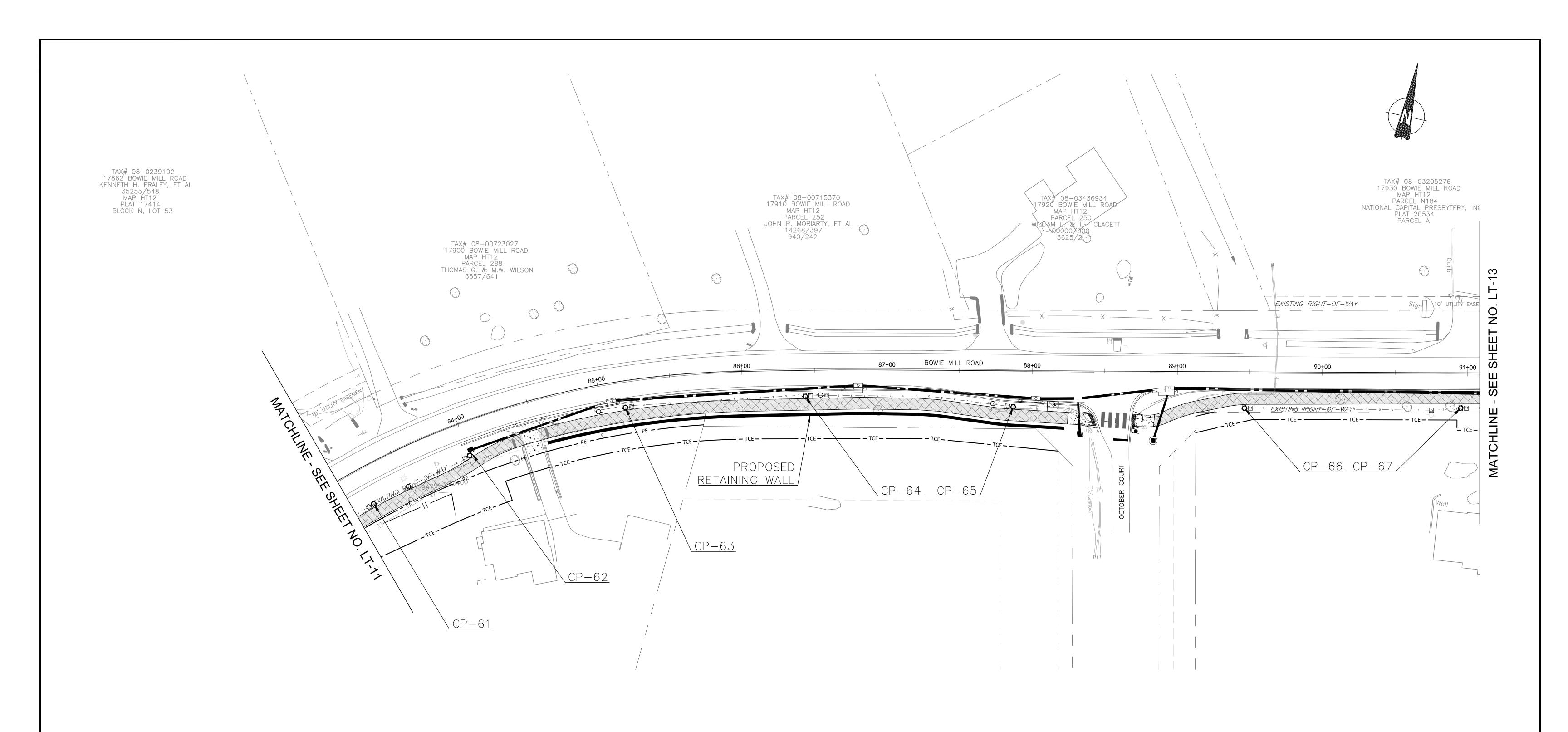
REVISION

90% DESIGN

	MONTGOMERY COUNTY DEPARTMENT OF TRANSPORTATION GAITHERSBURG, MARYLAND	
	RECOMMENDED FOR APPROVAL	
	Chief, Design Section Date APPROVED	
	Chief, Division of Transportation Engineering Date	
DATE BY	Designed by: <u>CJS</u> Drawn by: <u>CJS</u> Checked by: <u>DJD</u>	

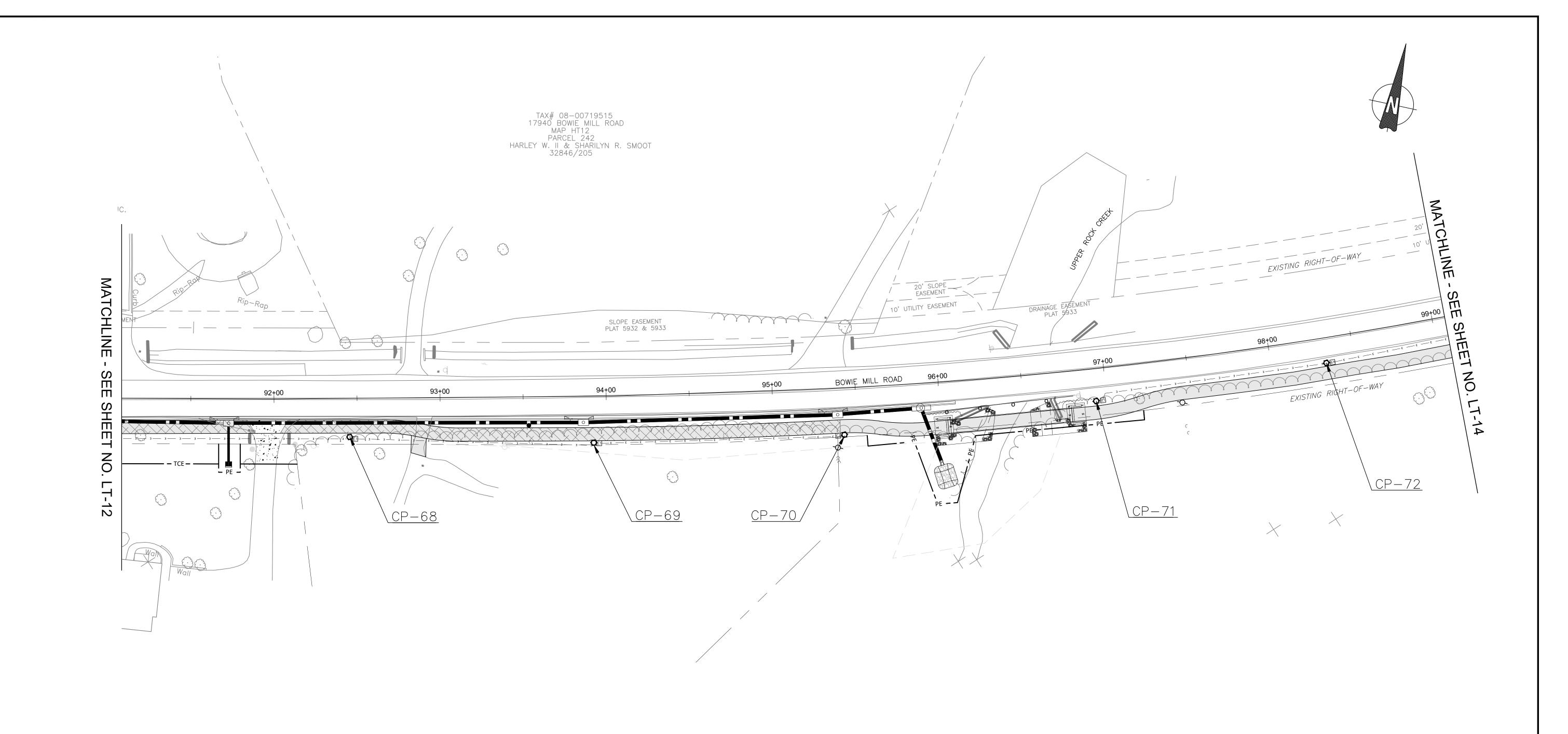
LT-11 LIGHTING PLAN BOWIE MILL ROAD **BIKEWAY** M-NCPPC PERMIT NO. MR2023016 SHA TRACKING NO. 24APMO039XX SCALE: 1"=30' DATE: APRIL 2025

Sheet <u>240</u> of <u>393</u> Project No. : 502108



POLE#	STATION	OFFSET	STREET NAME	WATTAGE	LAMP TYPE	LUMINAIRE STYLE	POLE STYLE
61	83+23	26' RT	BOWIE MILL	70	LED	PROPOSED COLONIAL POST	PROPOSED BLACK FIBERGLASS
62	84+00	23' RT	BOWIE MILL	70	LED	PROPOSED COLONIAL POST	PROPOSED BLACK FIBERGLASS
63	85+17	18' RT	BOWIE MILL	70	LED	PROPOSED COLONIAL POST	PROPOSED BLACK FIBERGLASS
64	86+43	18' RT	BOWIE MILL	70	LED	PROPOSED COLONIAL POST	PROPOSED BLACK FIBERGLASS
65	87+87	24' RT	BOWIE MILL	70	LED	PROPOSED COLONIAL POST	PROPOSED BLACK FIBERGLASS
66	89+46	25' RT	BOWIE MILL	70	LED	PROPOSED COLONIAL POST	PROPOSED BLACK FIBERGLASS
67	90+95	24' RT	BOWIE MILL	70	LED	PROPOSED COLONIAL POST	PROPOSED BLACK FIBERGLASS
<u> </u>							

LT-12 LIGHTING LEGEND **LIGHTING NOTES:** 90% DESIGN MONTGOMERY COUNTY DEPARTMENT OF TRANSPORTATION LIGHTING PLAN NOT FOR CONSTRUCTION PROPOSED LED COLONIAL POST PEDESTRIAN LIGHT POLE 1. SHEETS LT-01 THRU LT-13 IS WITHIN THE UPPER ROCK CREEK SPECIAL PROTECTION AREA GAITHERSBURG, MARYLAND BOWIE MILL ROAD 2. ALL UTILITY CONFLICTS AND RELOCATIONS WILL REQUIRE COORDINATION WITH THE APPROPRIATE UTILITY COMPANIES. RECOMMENDED FOR APPROVAL PROPOSED LIGHTING POLES TO BE CABLED AND POWERED BY PEPCO. BIKEWAY 12" x 24" HANDHOLE 4. ALL PROPOSED LIGHTING SHALL INCORPORATE LED LUMINAIRES. SEE LANDSCAPING PLANS FOR EXISTING TREES TO BE REMOVED. M-NCPPC PERMIT NO. MR2023016 SHA TRACKING NO. 24APMO039XX Chief, Design Section Date 17" x 30" HANDHOLE 6. CONTRACTOR TO PROVIDE LIGHT POLES, FOUNDATIONS, FIXTURES, HANDHOLES, AND CONDUIT APPROVED FOR PEDESTRIAN LIGHTING. PEPCO TO RUN WIRING FROM SOURCE POLES AND SPLICE INTO (2) 4" SCHEDULE PROVIDED POLES/ LUMINAIRES AT LOCATIONS NOTED ON PLANS. 40 PVC CONDUIT 7. CONDUIT TO BE DIRECT BURIED. CONDUIT TO BE CONCRETE ENCASED WHEN LOCATED BENEATH PAVEMENT. Date Chief, Division of Transportation Engineering SCALE: 1"=30' DATE: APRIL 2025 8. SEE DWG LT-26 FOR PEPCO CONDITIONS. POLE NUMBER Designed by: CJS Checked by: DJD Drawn by: CJS Project No. : 502108 Sheet <u>241</u> of <u>393</u> 9. ROADWAY UTILITY POLE LUMINAIRES TO BE UPGRADED TO LED, TO BE COORDINATED WITH/COMPLETED BY PEPCO. NO. DATE BY REVISION



POLE #	STATION	OFFSET	STREET NAME	WATTAGE	LAMP TYPE	LUMINAIRE STYLE	POLE STYLE
68*	92+45	23' RT	BOWIE MILL	70	LED	PROPOSED COLONIAL POST	PROPOSED BLACK FIBERGLASS
69*	93+92	28' RT	BOWIE MILL	70	LED	PROPOSED COLONIAL POST	PROPOSED BLACK FIBERGLASS
70*	95+42	28' RT	BOWIE MILL	70	LED	PROPOSED COLONIAL POST	PROPOSED BLACK FIBERGLASS
71*	96+93	20' RT	BOWIE MILL	70	LED	PROPOSED COLONIAL POST	PROPOSED BLACK FIBERGLASS
72*	98+33	15' RT	BOWIE MILL	70	LED	PROPOSED COLONIAL POST	PROPOSED BLACK FIBERGLASS

* PROPOSED LIGHTS ADJACENT TO PARK TO HAVE LIGHTING SHIELD/ OVERFLOW PROTECTION AT COUNTY DISCRETION

REVISION

<u>LIGHTING LEGEND</u>

PROPOSED LED COLONIAL POST PEDESTRIAN LIGHT POLE

17" x 30" HANDHOLE

12" x 24" HANDHOLE

(2) 4" SCHEDULE

40 PVC CONDUIT POLE NUMBER

LIGHTING NOTES:

SHEETS LT-01 THRU LT-13 IS WITHIN THE UPPER ROCK CREEK SPECIAL PROTECTION AREA

ALL UTILITY CONFLICTS AND RELOCATIONS WILL REQUIRE COORDINATION WITH THE APPROPRIATE UTILITY COMPANIES. PROPOSED LIGHTING POLES TO BE CABLED AND POWERED BY PEPCO.

4. ALL PROPOSED LIGHTING SHALL INCORPORATE LED LUMINAIRES.

5. SEE LANDSCAPING PLANS FOR EXISTING TREES TO BE REMOVED. 6. CONTRACTOR TO PROVIDE LIGHT POLES, FOUNDATIONS, FIXTURES, HANDHOLES, AND CONDUIT FOR PEDESTRIAN LIGHTING. PEPCO TO RUN WIRING FROM SOURCE POLES AND SPLICE INTO

PROVIDED POLES/ LUMINAIRES AT LOCATIONS NOTED ON PLANS. 7. CONDUIT TO BE DIRECT BURIED. CONDUIT TO BE CONCRETE ENCASED WHEN LOCATED BENEATH PAVEMENT.

8. SEE DWG LT-26 FOR PEPCO CONDITIONS. 9. ROADWAY UTILITY POLE LUMINAIRES TO BE UPGRADED TO LED, TO BE COORDINATED WITH/COMPLETED BY PEPCO.

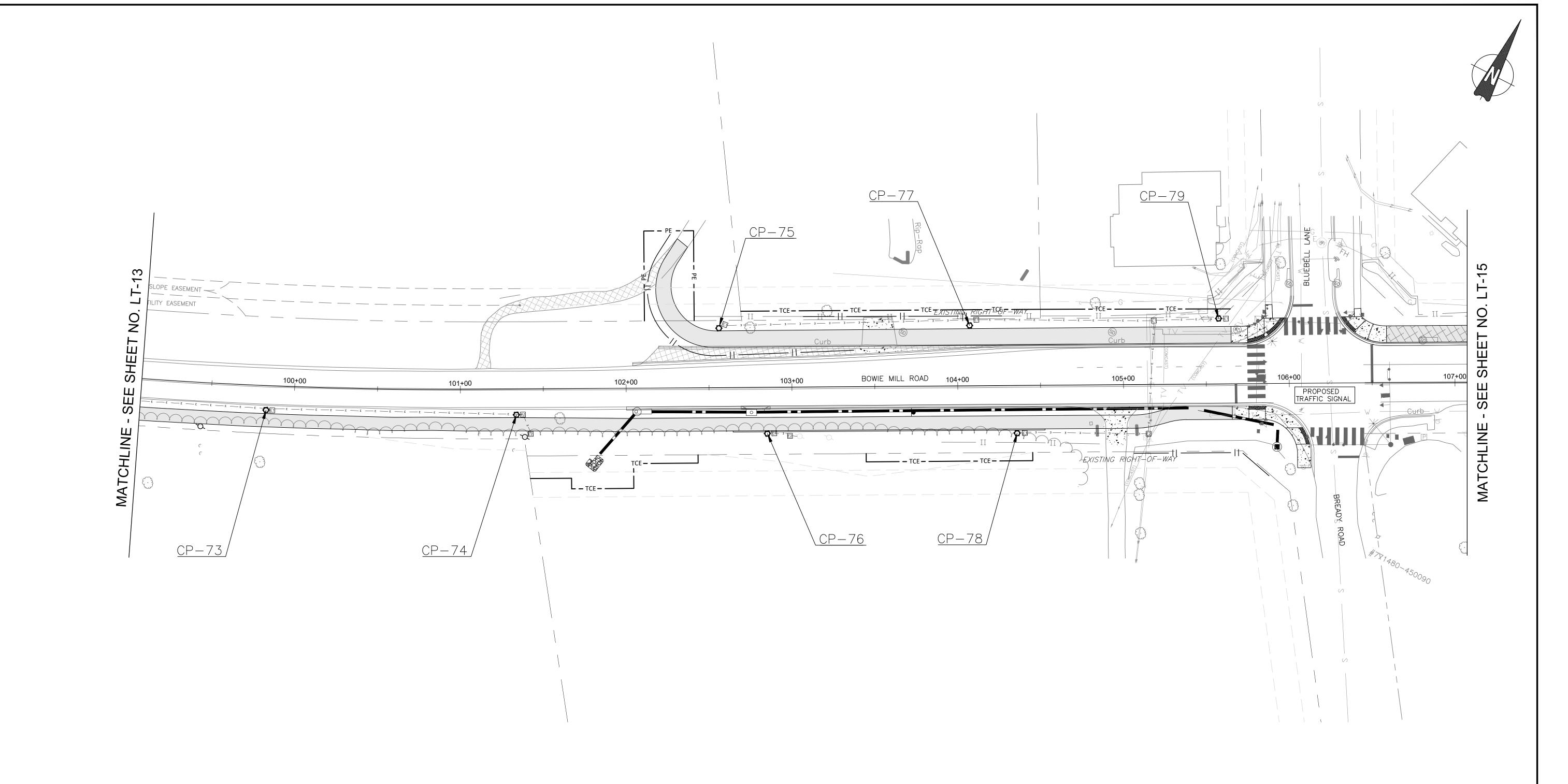
90% DESIGN

NOT FOR CONSTRUCTION

		MONTGOMERY COUNTY DEPARTMENT OF TRANSPORTATIO GAITHERSBURG, MARYLAND	ON	
		RECOMMENDED FOR APPROVAL		
		Chief, Design Section APPROVED	Date	M-N 0
		Chief, Division of Transportation Engineering	Date	sc
DATE	BY	Designed by: CJS Drawn by: CJS Ch	necked by:DJD	Pro

LT-13 LIGHTING PLAN BOWIE MILL ROAD BIKEWAY NCPPC PERMIT NO. MR2023016 SHA TRACKING NO. 24APMO039XX SCALE: 1"=30' DATE: APRIL 2025 roject No. : <u>502108</u> Sheet <u>242</u> of <u>393</u>

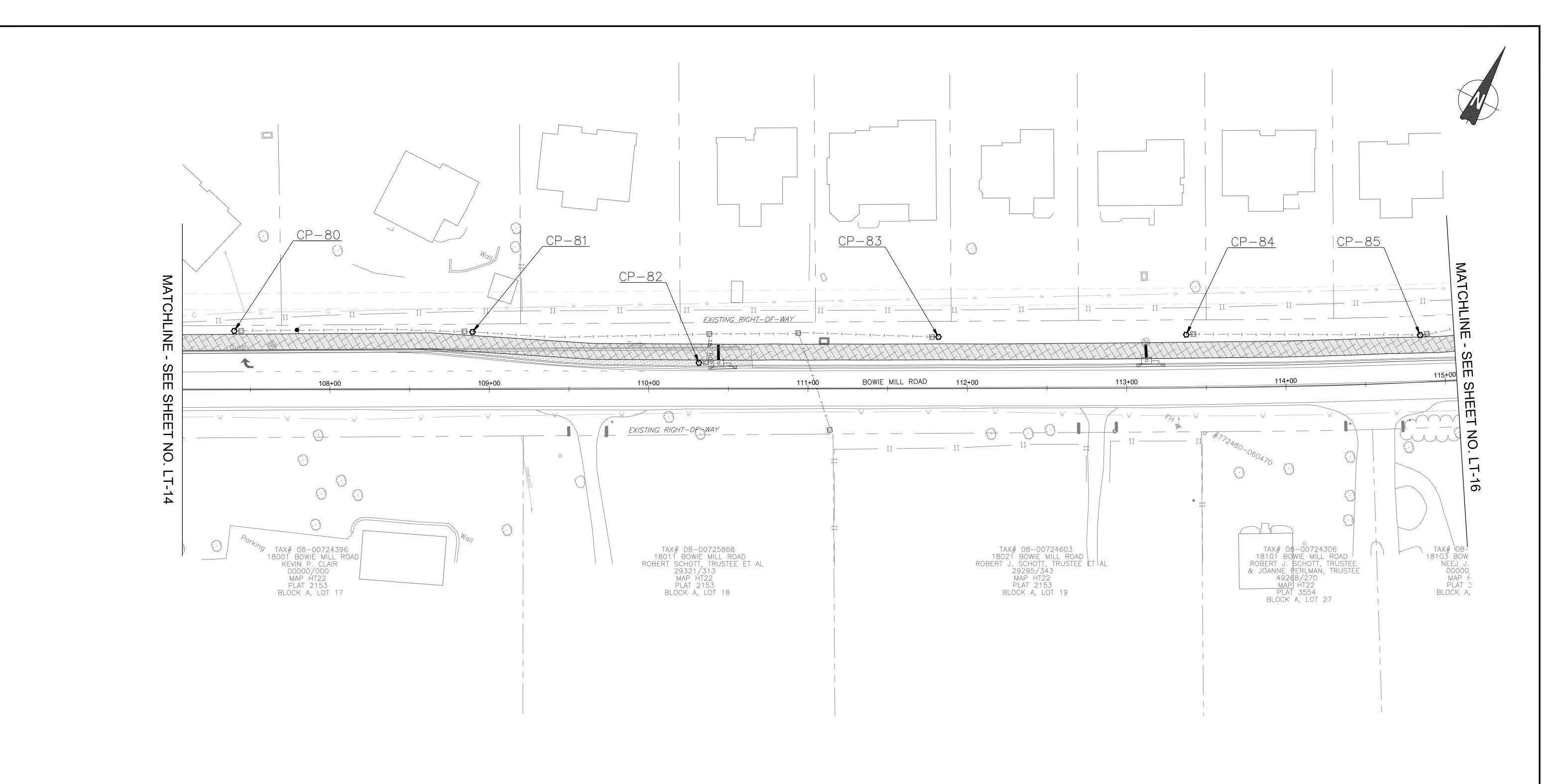
FILE NAME: C:\pwworking\jmt\d0642160\pLT_Bowie Mill Rd.dwg LAYOUT NAME: LT-13 PLOTTED: Monday, April 07, 2025 - 2:56pm USER: CStricker



POLE#	STATION	OFFSET	STREET NAME	WATTAGE	LAMP TYPE	LUMINAIRE STYLE	POLE STYLE
73*	99+83	15' RT	BOWIE MILL	70	LED	PROPOSED COLONIAL POST	PROPOSED BLACK FIBERGLASS
74*	101+34	15' RT	BOWIE MILL	70	LED	PROPOSED COLONIAL POST	PROPOSED BLACK FIBERGLASS
75	102+56	36' LT	BOWIE MILL	70	LED	PROPOSED COLONIAL POST	PROPOSED BLACK FIBERGLASS
76	102+84	28' RT	BOWIE MILL	70	LED	PROPOSED COLONIAL POST	PROPOSED BLACK FIBERGLASS
77	104+07	36' LT	BOWIE MILL	70	LED	PROPOSED COLONIAL POST	PROPOSED BLACK FIBERGLASS
78	104+36	29' RT	BOWIE MILL	70	LED	PROPOSED COLONIAL POST	PROPOSED BLACK FIBERGLASS
79	105+58	37' LT	BOWIE MILL	70	LED	PROPOSED COLONIAL POST	PROPOSED BLACK FIBERGLASS

* PROPOSED LIGHTS ADJACENT TO PARK TO HAVE LIGHTING SHIELD/ OVERFLOW PROTECTION AT COUNTY DISCRETION

LIGHTING L	EGEND PROPOSED LED COLONIAL POST PEDESTRIAN LIGHT POLE	LIGHTING NOTES: 1. SHEETS LT-01 THRU LT-13 IS WITHIN THE UPPER ROCK CREEK SPECIAL PROTECTION AREA	90% DESIGN NOT FOR CONSTRUCTION			MONTGOMERY COUNTY DEPARTMENT OF TRANSPORTATION GAITHERSBURG, MARYLAND		LT- LIGHTIN	IG PLAN
E1 E2	12" × 24" HANDHOLE 17" × 30" HANDHOLE	 ALL UTILITY CONFLICTS AND RELOCATIONS WILL REQUIRE COORDINATION WITH THE APPROPRIATE UTILITY COMPANIES. PROPOSED LIGHTING POLES TO BE CABLED AND POWERED BY PEPCO. ALL PROPOSED LIGHTING SHALL INCORPORATE LED LUMINAIRES. SEE LANDSCAPING PLANS FOR EXISTING TREES TO BE REMOVED. CONTRACTOR TO PROVIDE LIGHT POLES, FOUNDATIONS, FIXTURES, HANDHOLES, AND CONDUIT FOR PEDESTRIAN LIGHTING. PEPCO TO RUN WIRING FROM SOURCE POLES AND SPLICE INTO 				RECOMMENDED FOR APPROVAL Chief, Design Section APPROVED	 Date	BOWIE MI BIKE M-NCPPC PERMIT NO. MR2023016	EWAY
— E — <u>СР-ХХ</u>	(2) 4" SCHEDULE 40 PVC CONDUIT POLE NUMBER	PROVIDED POLES/ LUMINAIRES AT LOCATIONS NOTED ON PLANS. 7. CONDUIT TO BE DIRECT BURIED. CONDUIT TO BE CONCRETE ENCASED WHEN LOCATED BENEATH PAVEMENT. 8. SEE DWG LT-26 FOR PEPCO CONDITIONS. 9. ROADWAY UTILITY POLE LUMINAIRES TO BE UPGRADED TO LED, TO BE COORDINATED WITH/COMPLETED BY PEPCO.		NO REVISION	DATE BY	Chief, Division of Transportation Engineering Designed by: CJS Drawn by: CJS Check	Date ced by: DJD	SCALE: 1"=30' Project No. :502108	DATE: APRIL 2025 Sheet _243_ of _393_



POLE#	STATION	OFFSET	STREET NAME	WATTAGE	LAMP TYPE	LUMINAIRE STYLE	POLE STYLE
80	107+40	37' LT	BOWIE MILL	70	LED	PROPOSED COLONIAL POST	PROPOSED BLACK FIBERGLASS
81	108+89	36' LT	BOWIE MILL	70	LED	PROPOSED COLONIAL POST	PROPOSED BLACK FIBERGLASS
82	110+32	17' LT	BOWIE MILL	70	LED	PROPOSED COLONIAL POST	PROPOSED BLACK FIBERGLASS
83	111+82	32' LT	BOWIE MILL	70	LED	PROPOSED COLONIAL POST	PROPOSED BLACK FIBERGLASS
84	113+38	33' LT	BOWIE MILL	70	LED	PROPOSED COLONIAL POST	PROPOSED BLACK FIBERGLASS
85	114+85	30' LT	BOWIE MILL	70	LED	PROPOSED COLONIAL POST	PROPOSED BLACK FIBERGLASS

<u>LIGHTING LEGEND</u>

PROPOSED LED COLONIAL POST PEDESTRIAN LIGHT POLE

12" x 24" HANDHOLE

POLE NUMBER

17" x 30" HANDHOLE

(2) 4" SCHEDULE 40 PVC CONDUIT

LIGHTING NOTES:

1. SHEETS LT-01 THRU LT-13 IS WITHIN THE UPPER ROCK CREEK SPECIAL PROTECTION AREA

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

3. PROPOSED LIGHTING POLES TO BE CABLED AND POWERED BY PEPCO.

4. ALL PROPOSED LIGHTING SHALL INCORPORATE LED LUMINAIRES. 5. SEE LANDSCAPING PLANS FOR EXISTING TREES TO BE REMOVED.

6. CONTRACTOR TO PROVIDE LIGHT POLES, FOUNDATIONS, FIXTURES, HANDHOLES, AND CONDUIT FOR PEDESTRIAN LIGHTING. PEPCO TO RUN WIRING FROM SOURCE POLES AND SPLICE INTO

PROVIDED POLES/ LUMINAIRES AT LOCATIONS NOTED ON PLANS. 7. CONDUIT TO BE DIRECT BURIED. CONDUIT TO BE CONCRETE ENCASED WHEN LOCATED BENEATH PAVEMENT.

8. SEE DWG LT-26 FOR PEPCO CONDITIONS.

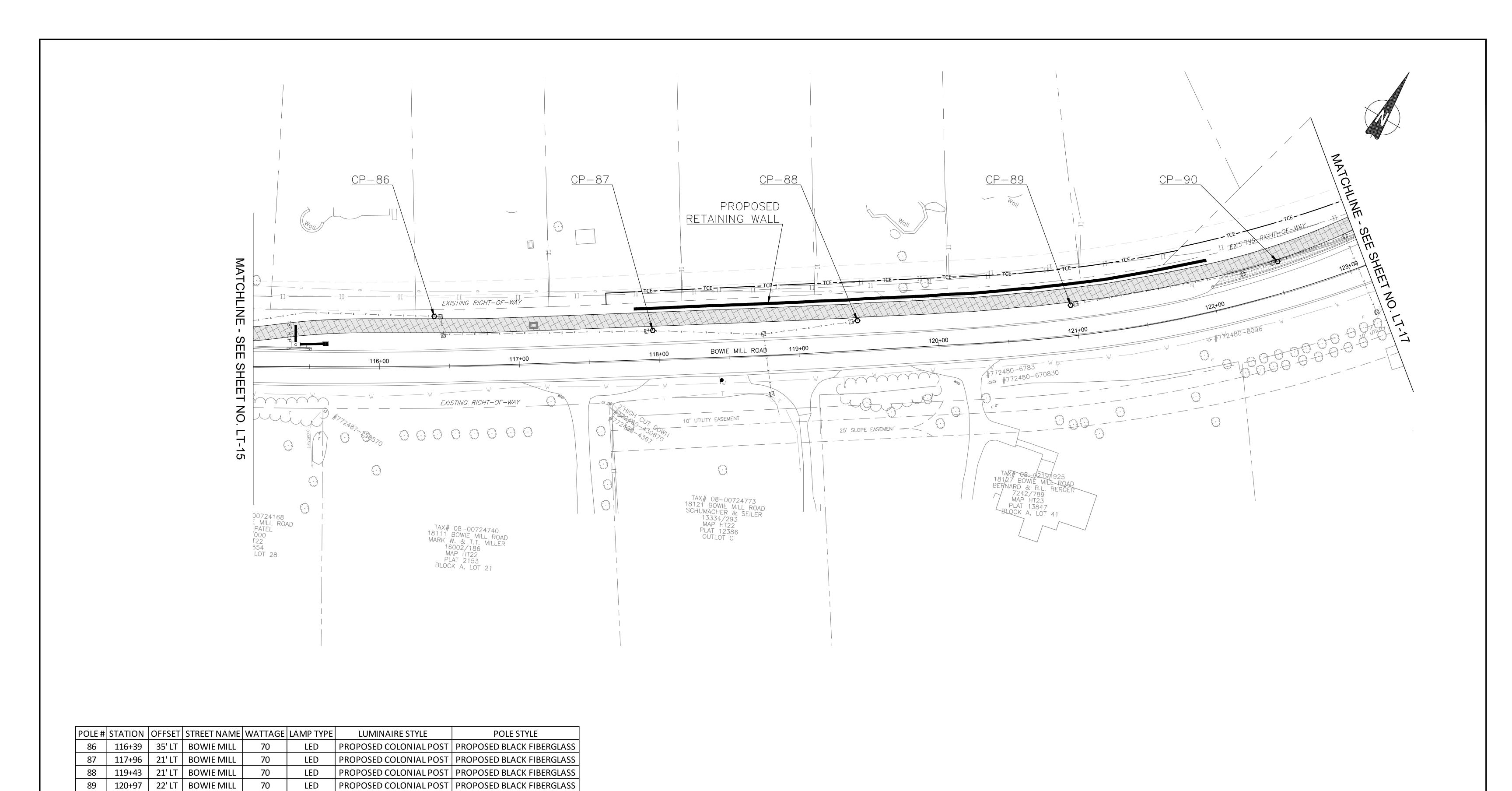
9. ROADWAY UTILITY POLE LUMINAIRES TO BE UPGRADED TO LED, TO BE COORDINATED WITH/COMPLETED BY PEPCO.

90% DESIGN NOT FOR CONSTRUCTION

				MONTGOMERY COUNTY DEPARTMENT OF TRANSPORTATION GAITHERSBURG, MARYLAND	
				RECOMMENDED FOR APPROVAL	- BOW
				Chief, Design Section Date APPROVED	M-NCPPC PERMIT NO. M
				Chief, Division of Transportation Engineering Date	SCALE: 1"=30'
NO.	REVISION	DATE	BY	Designed by: <u>CJS</u> Drawn by: <u>CJS</u> Checked by: <u>DJD</u>	Project No. : <u>502108</u>

LT-15 LIGHTING PLAN BOWIE MILL ROAD BIKEWAY M-NCPPC PERMIT NO. MR2023016 SHA TRACKING NO. 24APMO039XX SCALE: 1"=30' DATE: APRIL 2025

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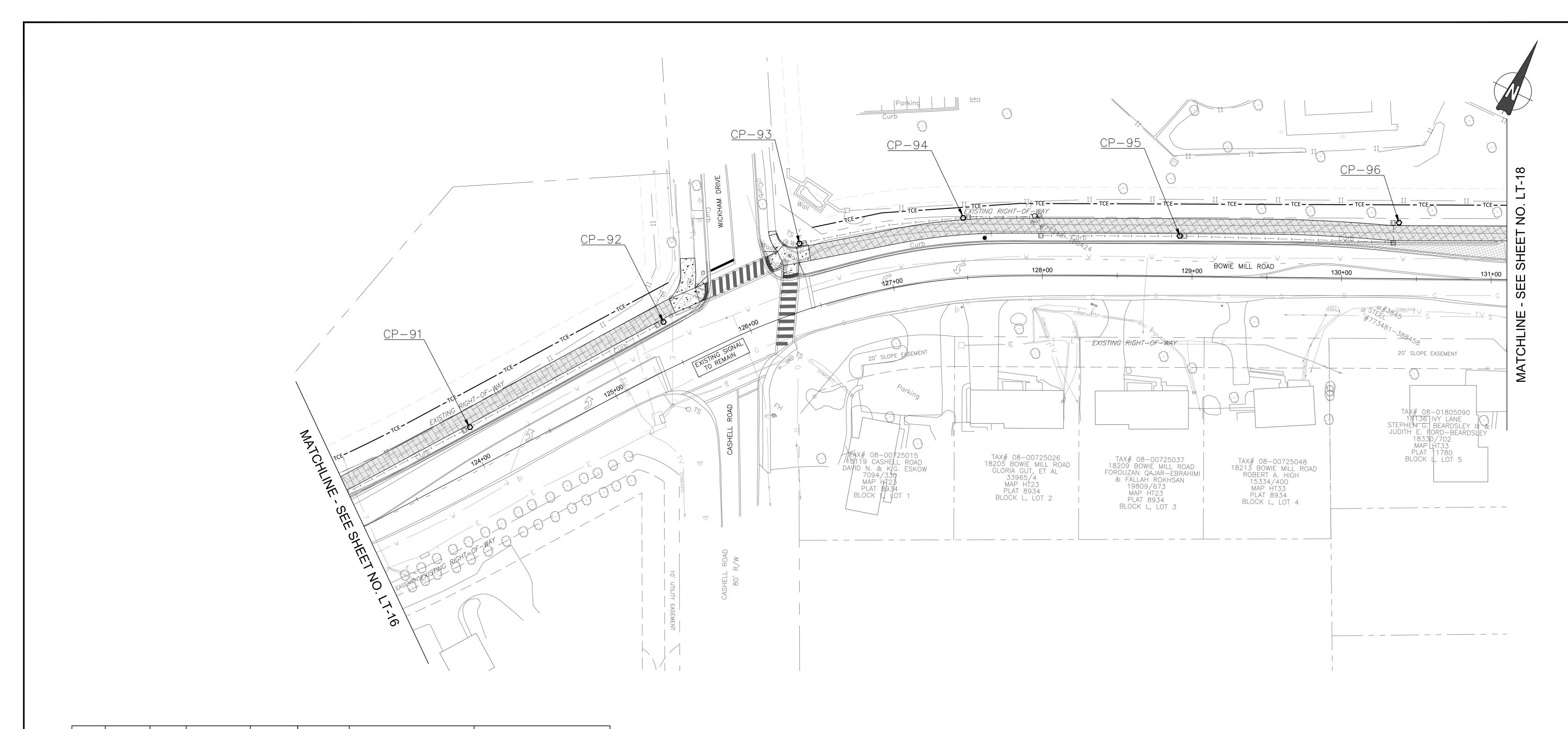


LIGHTING LEGEND PROPOSED LED COLONIAL POST PEDESTRIAN LIGHT POLE	LIGHTING NOTES: 1. SHEETS LT-01 THRU LT-13 IS WITHIN THE UPPER ROCK CREEK SPECIAL PROTECTION AREA	90% DESIGN NOT FOR CONSTRUCTION			MONTGOMERY COUNTY DEPARTMENT OF TRANSPORTATION GAITHERSBURG, MARYLAND		LT-16 LIGHTING PLA	
E1 12" x 24" HANDHOLE E2 17" x 30" HANDHOLE (2) 4" SCHEDULE 40 PVC CONDUIT	 ALL UTILITY CONFLICTS AND RELOCATIONS WILL REQUIRE COORDINATION WITH THE APPROPRIATE UTILITY COMPANIES. PROPOSED LIGHTING POLES TO BE CABLED AND POWERED BY PEPCO. ALL PROPOSED LIGHTING SHALL INCORPORATE LED LUMINAIRES. SEE LANDSCAPING PLANS FOR EXISTING TREES TO BE REMOVED. CONTRACTOR TO PROVIDE LIGHT POLES, FOUNDATIONS, FIXTURES, HANDHOLES, AND CONDUIT FOR PEDESTRIAN LIGHTING. PEPCO TO RUN WIRING FROM SOURCE POLES AND SPLICE INTO PROVIDED POLES/ LUMINAIRES AT LOCATIONS NOTED ON PLANS. CONDUIT TO BE DIRECT BURIED. CONDUIT TO BE CONCRETE ENCASED WHEN LOCATED BENEATH PAVEMENT. 				RECOMMENDED FOR APPROVAL Chief, Design Section APPROVED Chief, Division of Transportation Engineering	Date Date	BOWIE MILL BIKEWAY M-NCPPC PERMIT NO. MR2023016 SHA TRA 0 30' 60' SCALE: 1"=30'	<i>7</i> -
CP-XX POLE NUMBER	8. SEE DWG LT-26 FOR PEPCO CONDITIONS. 9. ROADWAY UTILITY POLE LUMINAIRES TO BE UPGRADED TO LED, TO BE COORDINATED WITH/COMPLETED BY PEPCO.		NO. REVISION	DATE BY		ked by: DJD	Project No. : 502108	Sheet <u>245</u> of <u>393</u>

70

PROPOSED COLONIAL POST | PROPOSED BLACK FIBERGLASS

90 | 122+50 | 23' LT | BOWIE MILL



POLE#	STATION	OFFSET	STREET NAME	WATTAGE	LAMP TYPE	LUMINAIRE STYLE	POLE STYLE
91	124+02	26' LT	BOWIE MILL	70	LED	PROPOSED COLONIAL POST	PROPOSED BLACK FIBERGLASS
92	125+50	30' LT	BOWIE MILL	70	LED	PROPOSED COLONIAL POST	PROPOSED BLACK FIBERGLASS
93	126+48	44' LT	BOWIE MILL	70	LED	PROPOSED COLONIAL POST	PROPOSED BLACK FIBERGLASS
94	127+48	40' LT	BOWIE MILL	70	LED	PROPOSED COLONIAL POST	PROPOSED BLACK FIBERGLASS
95	128+92	27' LT	BOWIE MILL	70	LED	PROPOSED COLONIAL POST	PROPOSED BLACK FIBERGLASS
96	130+38	38' LT	BOWIE MILL	70	LED	PROPOSED COLONIAL POST	PROPOSED BLACK FIBERGLASS

<u>LIGHTING LEGEND</u>

PROPOSED LED COLONIAL POST PEDESTRIAN LIGHT POLE

POLE NUMBER

12" x 24" HANDHOLE 17" x 30" HANDHOLE

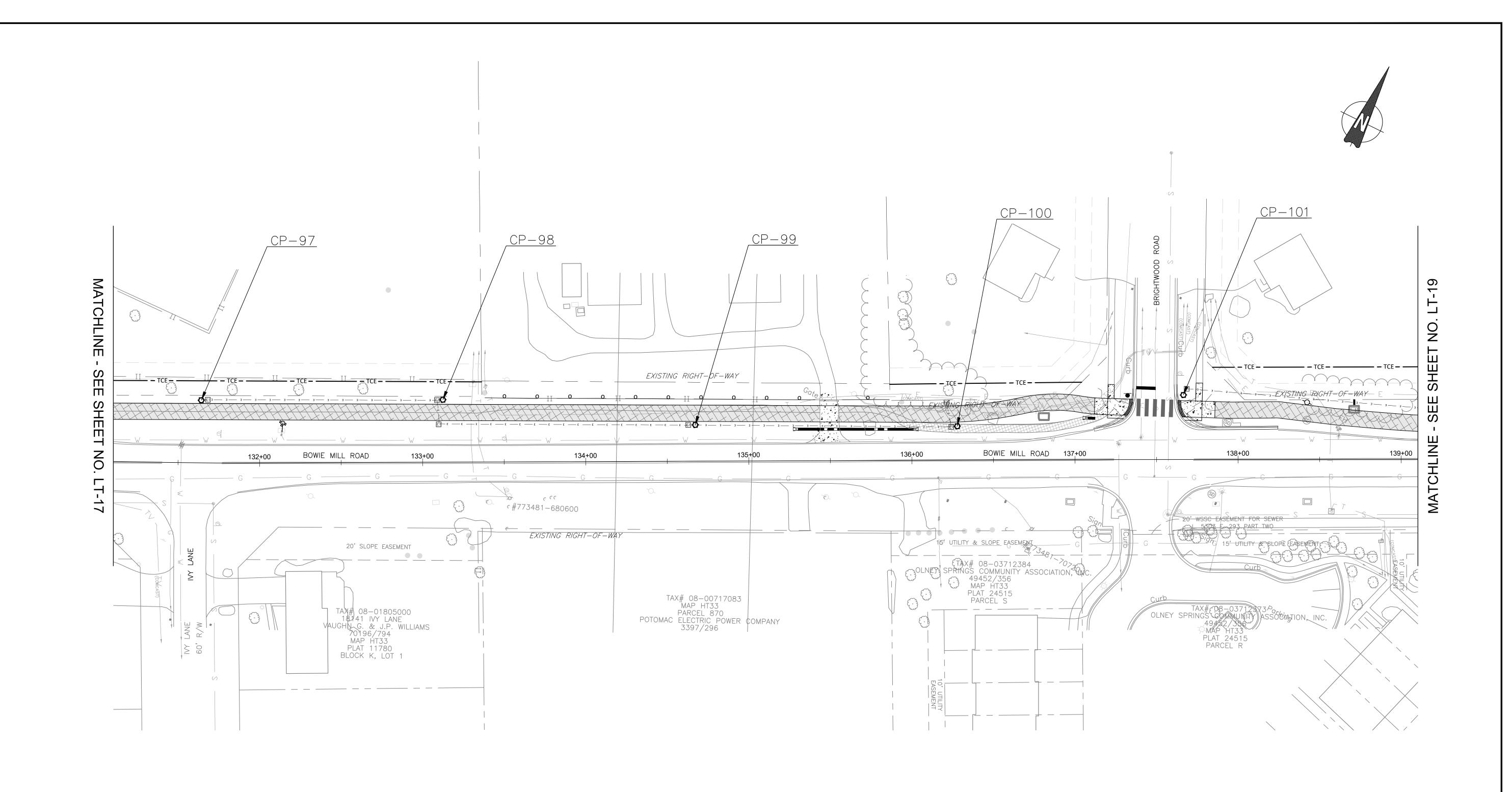
(2) 4" SCHEDULE 40 PVC CONDUIT **LIGHTING NOTES:**

- 1. SHEETS LT-01 THRU LT-13 IS WITHIN THE UPPER ROCK CREEK SPECIAL PROTECTION AREA
- 2. ALL UTILITY CONFLICTS AND RELOCATIONS WILL REQUIRE COORDINATION WITH THE APPROPRIATE UTILITY COMPANIES.
- 3. PROPOSED LIGHTING POLES TO BE CABLED AND POWERED BY PEPCO.
- 4. ALL PROPOSED LIGHTING SHALL INCORPORATE LED LUMINAIRES.
- SEE LANDSCAPING PLANS FOR EXISTING TREES TO BE REMOVED. 6. CONTRACTOR TO PROVIDE LIGHT POLES, FOUNDATIONS, FIXTURES, HANDHOLES, AND CONDUIT FOR PEDESTRIAN LIGHTING. PEPCO TO RUN WIRING FROM SOURCE POLES AND SPLICE INTO
- PROVIDED POLES/ LUMINAIRES AT LOCATIONS NOTED ON PLANS. 7. CONDUIT TO BE DIRECT BURIED. CONDUIT TO BE CONCRETE ENCASED WHEN LOCATED BENEATH PAVEMENT.

9. ROADWAY UTILITY POLE LUMINAIRES TO BE UPGRADED TO LED, TO BE COORDINATED WITH/COMPLETED BY PEPCO.		SEE DWG LT-26 FOR PEPCO CONDITIONS.
	9.	ROADWAY UTILITY POLE LUMINAIRES TO BE UPGRADED TO LED, TO BE COORDINATED WITH/COMPLETED BY PEPCO.

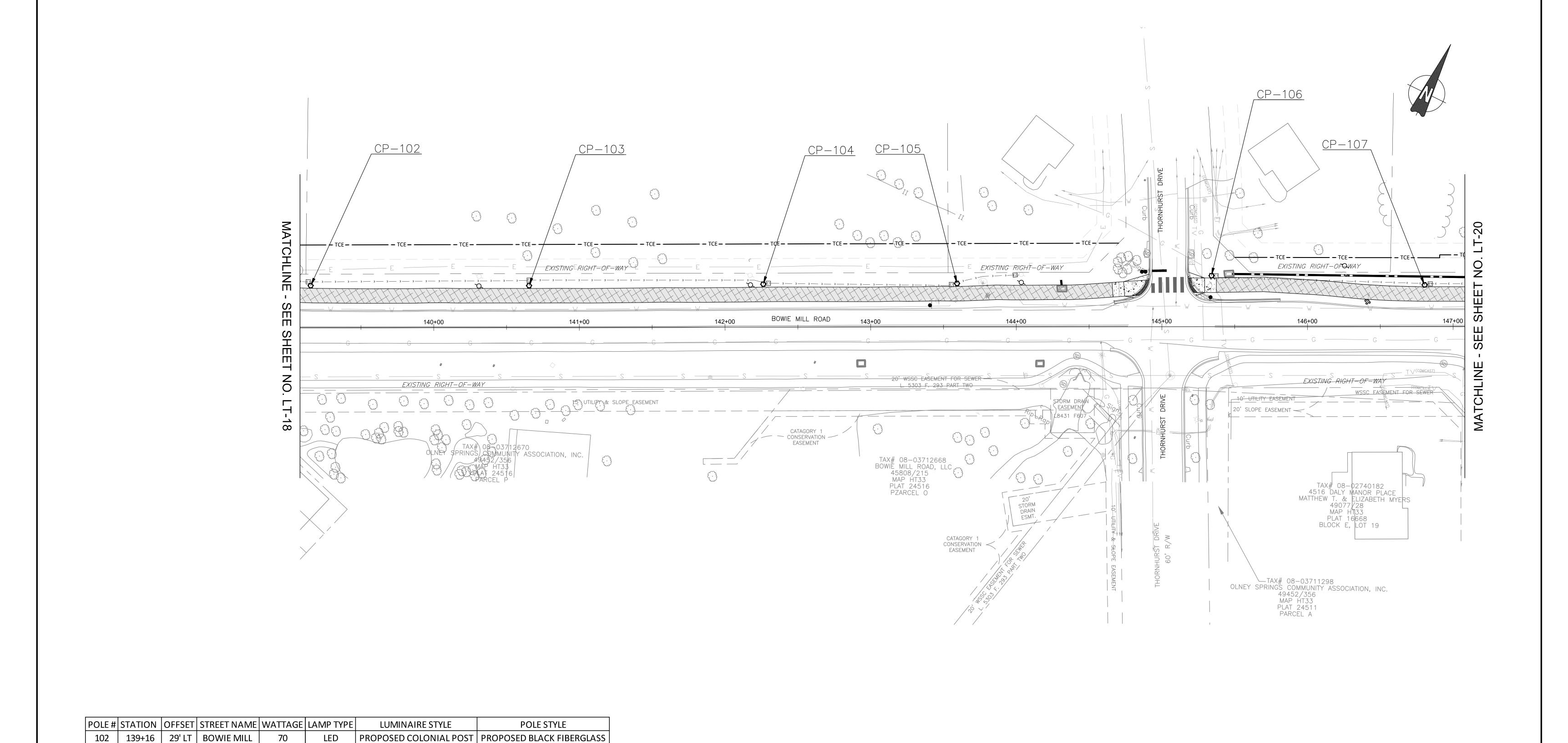
				MONTGOMERY COUNTY DEPARTMENT OF TRANSPORTATION GAITHERSBURG, MARYLAND	
				RECOMMENDED FOR APPROVAL Chief, Design Section Date APPROVED	
NO.	REVISION	DATE	BY	Chief, Division of Transportation Engineering Date Designed by: CJS Drawn by: CJS Checked by: DJD	_

LT-17 LIGHTING PLAN BOWIE MILL ROAD BIKEWAY M-NCPPC PERMIT NO. MR2023016 SHA TRACKING NO. 24APMO039XX SCALE: 1"=30' DATE: APRIL 2025 Sheet <u>246</u> of <u>393</u> Project No. : 502108



POLE#	STATION	OFFSET	STREET NAME	WATTAGE	LAMP TYPE LUMINAIRE STYLE		POLE STYLE
97	131+64	38' LT	BOWIE MILL	70	LED	PROPOSED COLONIAL POST	PROPOSED BLACK FIBERGLASS
98	133+13	38' LT	BOWIE MILL	70	LED	PROPOSED COLONIAL POST	PROPOSED BLACK FIBERGLASS
99	134+67	22' LT	BOWIE MILL	70	LED	PROPOSED COLONIAL POST	PROPOSED BLACK FIBERGLASS
100	136+21	28' LT	BOWIE MILL	70	LED	PROPOSED COLONIAL POST	PROPOSED BLACK FIBERGLASS
101	137+67	40' LT	BOWIE MILL	70	LED	PROPOSED COLONIAL POST	PROPOSED BLACK FIBERGLASS

LT-18 <u>LIGHTING LEGEND</u> **LIGHTING NOTES:** 90% DESIGN MONTGOMERY COUNTY DEPARTMENT OF TRANSPORTATION LIGHTING PLAN NOT FOR CONSTRUCTION PROPOSED LED COLONIAL POST 1. SHEETS LT-01 THRU LT-13 IS WITHIN THE UPPER ROCK CREEK SPECIAL PROTECTION AREA GAITHERSBURG, MARYLAND PEDESTRIAN LIGHT POLE BOWIE MILL ROAD ALL UTILITY CONFLICTS AND RELOCATIONS WILL REQUIRE COORDINATION WITH THE APPROPRIATE UTILITY COMPANIES. RECOMMENDED FOR APPROVAL PROPOSED LIGHTING POLES TO BE CABLED AND POWERED BY PEPCO. BIKEWAY 12" x 24" HANDHOLE 4. ALL PROPOSED LIGHTING SHALL INCORPORATE LED LUMINAIRES. SEE LANDSCAPING PLANS FOR EXISTING TREES TO BE REMOVED. M-NCPPC PERMIT NO. MR2023016 SHA TRACKING NO. 24APMO039XX Date Chief, Design Section 17" x 30" HANDHOLE 6. CONTRACTOR TO PROVIDE LIGHT POLES, FOUNDATIONS, FIXTURES, HANDHOLES, AND CONDUIT APPROVED FOR PEDESTRIAN LIGHTING. PEPCO TO RUN WIRING FROM SOURCE POLES AND SPLICE INTO (2) 4" SCHEDULE 40 PVC CONDUIT PROVIDED POLES/ LUMINAIRES AT LOCATIONS NOTED ON PLANS. CONDUIT TO BE DIRECT BURIED. CONDUIT TO BE CONCRETE ENCASED WHEN LOCATED BENEATH PAVEMENT. Date Chief, Division of Transportation Engineering SCALE: 1"=30' DATE: APRIL 2025 8. SEE DWG LT-26 FOR PEPCO CONDITIONS. POLE NUMBER Drawn by: CJS Checked by: DJD Project No. : 502108 Sheet <u>247</u> of <u>393</u> 9. ROADWAY UTILITY POLE LUMINAIRES TO BE UPGRADED TO LED, TO BE COORDINATED WITH/COMPLETED BY PEPCO. Designed by: CJS REVISION DATE BY



12" x 24" HANDHOLE 17" x 30" HANDHOLE

PEDESTRIAN LIGHT POLE

105

<u>LIGHTING LEGEND</u>

(2) 4" SCHEDULE 40 PVC CONDUIT

POLE NUMBER

LIGHTING NOTES:

70

70

70

70

70

SHEETS LT-01 THRU LT-13 IS WITHIN THE UPPER ROCK CREEK SPECIAL PROTECTION AREA ALL UTILITY CONFLICTS AND RELOCATIONS WILL REQUIRE COORDINATION WITH THE APPROPRIATE UTILITY COMPANIES.

PROPOSED LIGHTING POLES TO BE CABLED AND POWERED BY PEPCO. 4. ALL PROPOSED LIGHTING SHALL INCORPORATE LED LUMINAIRES.

SEE LANDSCAPING PLANS FOR EXISTING TREES TO BE REMOVED. 6. CONTRACTOR TO PROVIDE LIGHT POLES, FOUNDATIONS, FIXTURES, HANDHOLES, AND CONDUIT FOR PEDESTRIAN LIGHTING. PEPCO TO RUN WIRING FROM SOURCE POLES AND SPLICE INTO PROVIDED POLES/ LUMINAIRES AT LOCATIONS NOTED ON PLANS.

7. CONDUIT TO BE DIRECT BURIED. CONDUIT TO BE CONCRETE ENCASED WHEN LOCATED BENEATH PAVEMENT. 8. SEE DWG LT-26 FOR PEPCO CONDITIONS. 9. ROADWAY UTILITY POLE LUMINAIRES TO BE UPGRADED TO LED, TO BE COORDINATED WITH/COMPLETED BY PEPCO.

PROPOSED COLONIAL POST | PROPOSED BLACK FIBERGLASS

PROPOSED COLONIAL POST | PROPOSED BLACK FIBERGLASS |

90% DESIGN NOT FOR CONSTRUCTION

				MONTGOMERY COUNTY DEPARTMENT OF TRANSPORTATION GAITHERSBURG, MARYLAND	
				RECOMMENDED FOR APPROVAL	
				Chief, Design Section APPROVED	
				Chief, Division of Transportation Engineering	
NO.	REVISION	DATE	BY	Designed by: CJS Drawn by: CJS Checked	by: _

LT-19 LIGHTING PLAN BOWIE MILL ROAD BIKEWAY M-NCPPC PERMIT NO. MR2023016 SHA TRACKING NO. 24APMO039XX SCALE: 1"=30' DATE: APRIL 2025 Sheet <u>248</u> of <u>393</u> Project No. : 502108

| 140+66 | 29' LT | BOWIE MILL

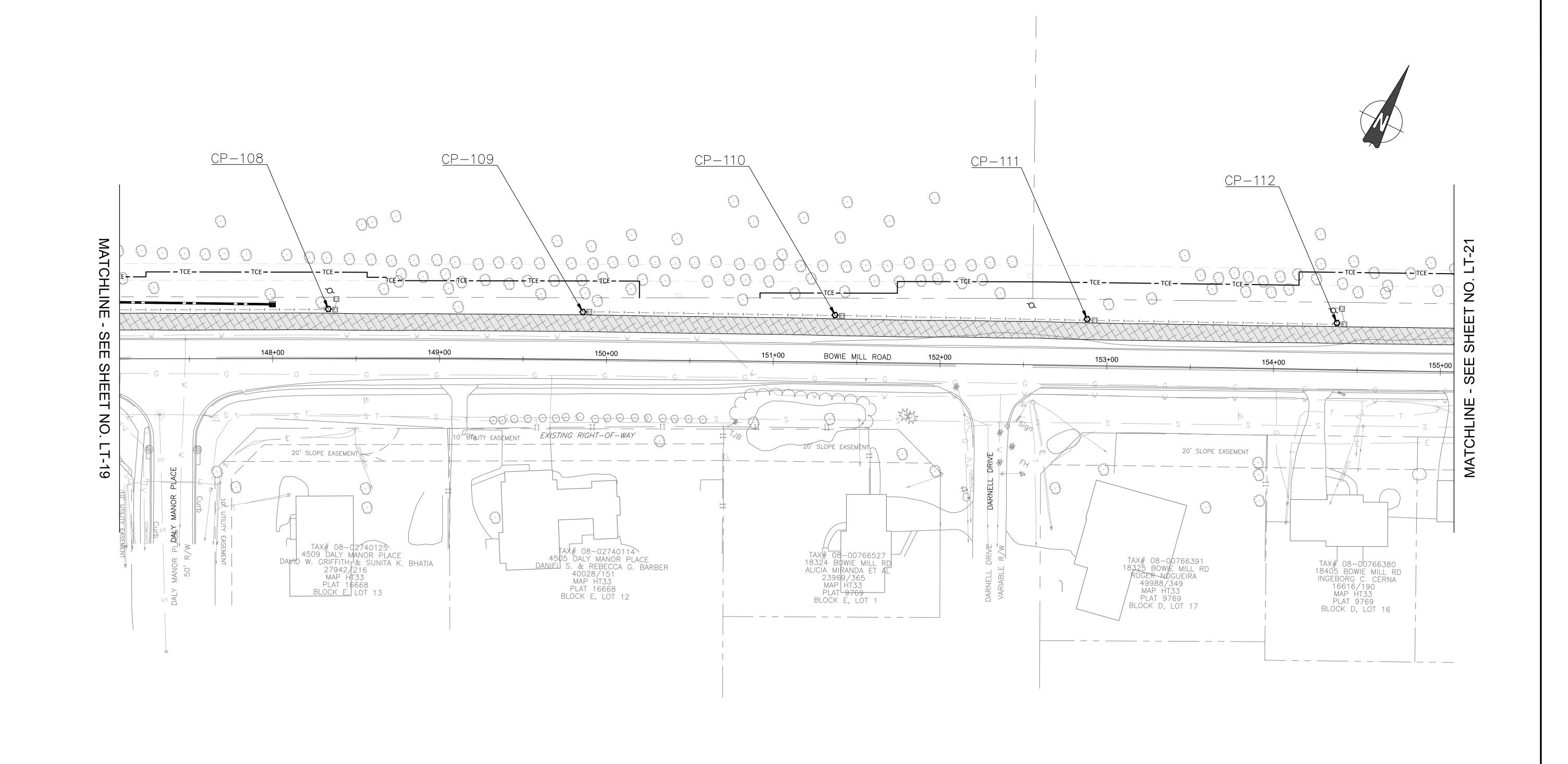
| 142+26 | 30' LT | BOWIE MILL

| 143+60 | 30' LT | BOWIE MILL

145+34 | 35' LT | BOWIE MILL

107 | 146+81 | 29' LT | BOWIE MILL

PROPOSED LED COLONIAL POST



POLE#	STATION	ON OFFSET STREET NAM		WATTAGE	LAMP TYPE	LUMINAIRE STYLE	POLE STYLE
108	148+33	30' LT	BOWIE MILL	70	LED	PROPOSED COLONIAL POST	PROPOSED BLACK FIBERGLASS
109	149+85	29' LT	BOWIE MILL	70	LED	PROPOSED COLONIAL POST	PROPOSED BLACK FIBERGLASS
110	151+37	28' LT	BOWIE MILL	70	LED	PROPOSED COLONIAL POST	PROPOSED BLACK FIBERGLASS
111	152+88	28' LT	BOWIE MILL	70	LED	PROPOSED COLONIAL POST	PROPOSED BLACK FIBERGLASS
112	154+38	28' LT	BOWIE MILL	70	LED	PROPOSED COLONIAL POST	PROPOSED BLACK FIBERGLASS

LIGHTING LEGEND

PROPOSED LED COLONIAL POST PEDESTRIAN LIGHT POLE

E1

17" x 30" HANDHOLE

POLE NUMBER

(2) 4" SCHEDULE 40 PVC CONDUIT

12" × 24" HANDHOLE

LIGHTING NOTES:

1. SHEETS LT-01 THRU LT-13 IS WITHIN THE UPPER ROCK CREEK SPECIAL PROTECTION AREA

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

3. PROPOSED LIGHTING POLES TO BE CABLED AND POWERED BY PEPCO.

4. ALL PROPOSED LIGHTING SHALL INCORPORATE LED LUMINAIRES.

5. SEE LANDSCAPING PLANS FOR EXISTING TREES TO BE REMOVED.

SEE LANDSCAPING PLANS FOR EXISTING TREES TO BE REMOVED.
 CONTRACTOR TO PROVIDE LIGHT POLES, FOUNDATIONS, FIXTURES, HANDHOLES, AND CONDUIT FOR PEDESTRIAN LIGHTING. PEPCO TO RUN WIRING FROM SOURCE POLES AND SPLICE INTO

PROVIDED POLES/ LUMINAIRES AT LOCATIONS NOTED ON PLANS.

7. CONDUIT TO BE DIRECT BURIED. CONDUIT TO BE CONCRETE ENCASED WHEN LOCATED BENEATH PAVEMENT.

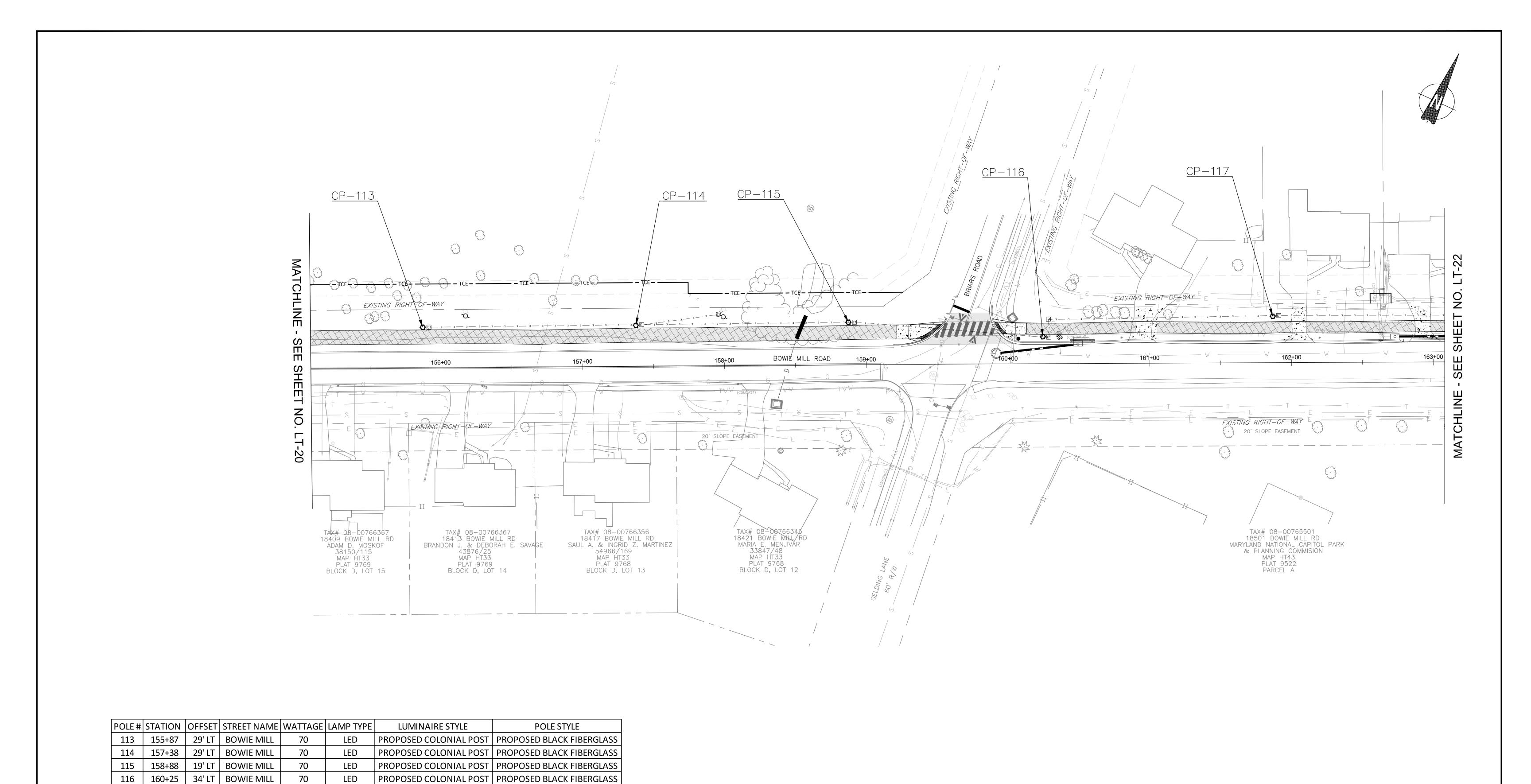
8. SEE DWG LT-26 FOR PEPCO CONDITIONS.

9. ROADWAY UTILITY POLE LUMINAIRES TO BE UPGRADED TO LED, TO BE COORDINATED WITH/COMPLETED BY PEPCO.

90% DESIGN NOT FOR CONSTRUCTION

				MONTGOMERY COUNTY DEPARTMENT OF TRANSPORTATION GAITHERSBURG, MARYLAND	I
				RECOMMENDED FOR APPROVAL	
				Chief, Design Section APPROVED	Date
				Chief, Division of Transportation Engineering	Date
NO.	REVISION	DATE	BY	Designed by: CJS Drawn by: CJS Chec	cked by: DJD

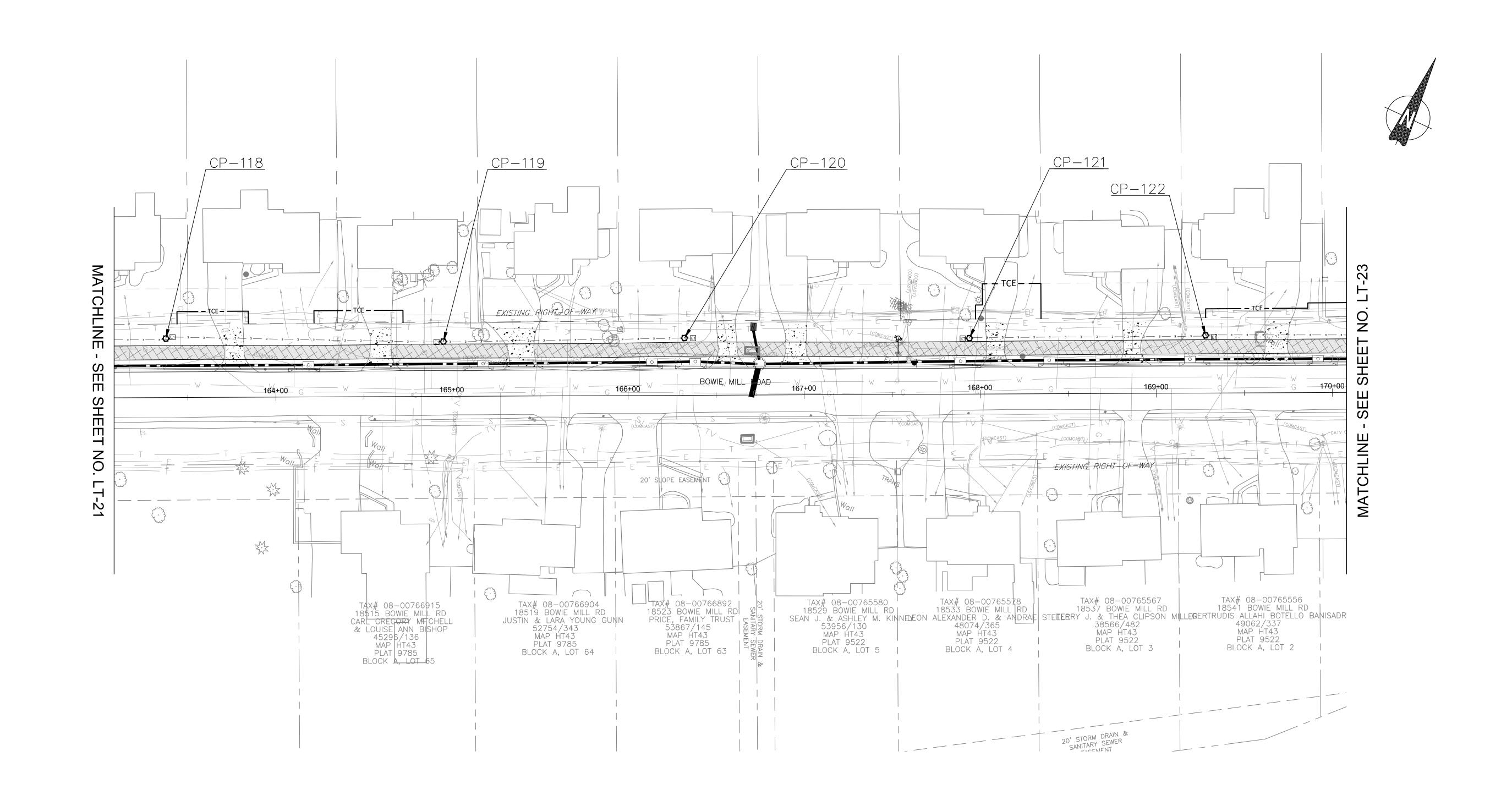
LT.	-20
LIGHTIN	IG PLAN
BOWIE M	ILL ROAD
BIKE	EWAY
M-NCPPC PERMIT NO. MR2023016	SHA TRACKING NO. <u>24APMO039XX</u>
0 30' 60'	
SCALE: 1"=30'	DATE: APRIL 2025
Project No. : 502108	Sheet <u>249</u> of <u>393</u>



LIGHTING LEGEND	LIGHTING NOTES:	90% DESIGN			MONTGOMERY COUNTY		LT-2	21
PROPOSED LED COLONIAL POST PEDESTRIAN LIGHT POLE	1. SHEETS LT-01 THRU LT-13 IS WITHIN THE UPPER ROCK CREEK SPECIAL PROTECTION AREA	NOT FOR CONSTRUCTION			DEPARTMENT OF TRANSPORTATION GAITHERSBURG, MARYLAND		LIGHTING	
I EDESTRIAN LIGHT TOLL	2. ALL UTILITY CONFLICTS AND RELOCATIONS WILL REQUIRE COORDINATION WITH THE APPROPRIATE UTILITY COMPANIES. 3. PROPOSED LIGHTING POLES TO BE CABLED AND POWERED BY PEPCO.				RECOMMENDED FOR APPROVAL		BOWIE MI	
E1 12" x 24" HANDHOLE	4. ALL PROPOSED LIGHTING SHALL INCORPORATE LED LUMINAIRES.						BIKEV	
E2 17" x 30" HANDHOLE	 SEE LANDSCAPING PLANS FOR EXISTING TREES TO BE REMOVED. CONTRACTOR TO PROVIDE LIGHT POLES, FOUNDATIONS, FIXTURES, HANDHOLES, AND CONDUIT 				Chief, Design Section APPROVED	Date		SHA TRACKING NO. <u>24APMO039XX</u>
F (2) 4" SCHEDULE	FOR PEDESTRIAN LIGHTING. PEPCO TO RUN WIRING FROM SOURCE POLES AND SPLICE INTO PROVIDED POLES/ LUMINAIRES AT LOCATIONS NOTED ON PLANS.						0 30' 60'	
- 40 PVC CONDUIT	7. CONDUIT TO BE DIRECT BURIED. CONDUIT TO BE CONCRETE ENCASED WHEN LOCATED BENEATH PAVEMENT. 8. SEE DWG LT-26 FOR PEPCO CONDITIONS.				Chief, Division of Transportation Engineering	Date	SCALE: 1"=30'	DATE: APRIL 2025
CP-XX POLE NUMBER	9. ROADWAY UTILITY POLE LUMINAIRES TO BE UPGRADED TO LED, TO BE COORDINATED WITH/COMPLETED BY PEPCO.		NO. REVISION	DATE BY	Designed by: CJS Drawn by: CJS Chec	ked by: DJD	Project No. : 502108	Sheet <u>250</u> of <u>393</u>

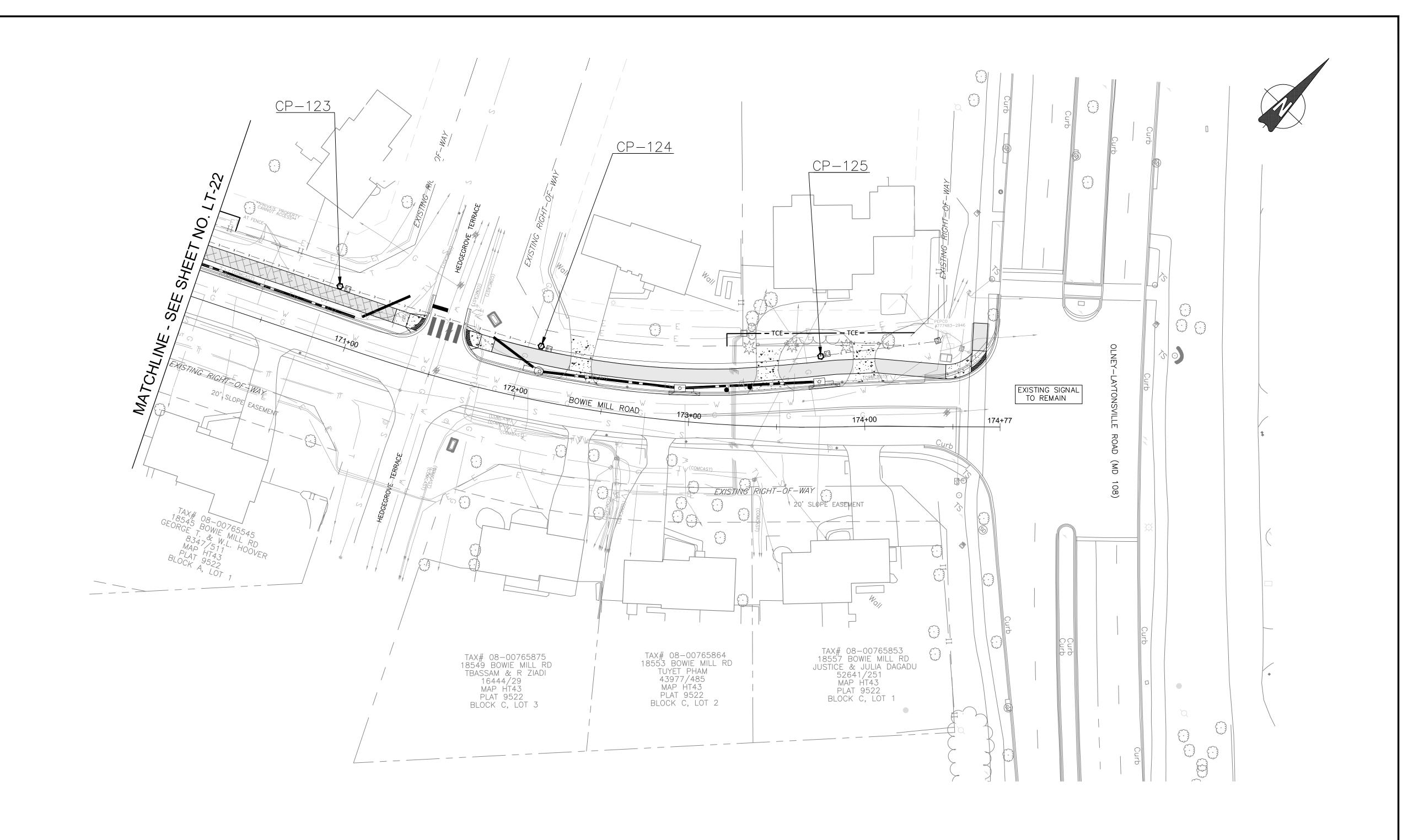
PROPOSED COLONIAL POST | PROPOSED BLACK FIBERGLASS

117 | 161+87 | 33' LT | BOWIE MILL



Р	OLE#	STATION	OFFSET	STREET NAME	WATTAGE	LAMP TYPE	LUMINAIRE STYLE	POLE STYLE
	118	163+38	34' LT	BOWIE MILL	70	LED	PROPOSED COLONIAL POST	PROPOSED BLACK FIBERGLASS
	119	164+95	31' LT	BOWIE MILL	70	LED	PROPOSED COLONIAL POST	PROPOSED BLACK FIBERGLASS
	120	166+32	33' LT	BOWIE MILL	70	LED	PROPOSED COLONIAL POST	PROPOSED BLACK FIBERGLASS
	121	167+94	32' LT	BOWIE MILL	70	LED	PROPOSED COLONIAL POST	PROPOSED BLACK FIBERGLASS
	122	169+28	33' LT	BOWIE MILL	70	LED	PROPOSED COLONIAL POST	PROPOSED BLACK FIBERGLASS

LT-22 <u>LIGHTING LEGEND</u> MONTGOMERY COUNTY 90% DESIGN **LIGHTING NOTES:** LIGHTING PLAN DEPARTMENT OF TRANSPORTATION NOT FOR CONSTRUCTION PROPOSED LED COLONIAL POST GAITHERSBURG, MARYLAND SHEETS LT-01 THRU LT-13 IS WITHIN THE UPPER ROCK CREEK SPECIAL PROTECTION AREA PEDESTRIAN LIGHT POLE BOWIE MILL ROAD ALL UTILITY CONFLICTS AND RELOCATIONS WILL REQUIRE COORDINATION WITH THE APPROPRIATE UTILITY COMPANIES. RECOMMENDED FOR APPROVAL 3. PROPOSED LIGHTING POLES TO BE CABLED AND POWERED BY PEPCO. BIKEWAY 12" x 24" HANDHOLE 4. ALL PROPOSED LIGHTING SHALL INCORPORATE LED LUMINAIRES. SEE LANDSCAPING PLANS FOR EXISTING TREES TO BE REMOVED. M-NCPPC PERMIT NO. MR2023016 SHA TRACKING NO. 24APMO039XX Date Chief, Design Section 17" x 30" HANDHOLE 6. CONTRACTOR TO PROVIDE LIGHT POLES, FOUNDATIONS, FIXTURES, HANDHOLES, AND CONDUIT APPROVED FOR PEDESTRIAN LIGHTING. PEPCO TO RUN WIRING FROM SOURCE POLES AND SPLICE INTO (2) 4" SCHEDULE PROVIDED POLES/ LUMINAIRES AT LOCATIONS NOTED ON PLANS. 40 PVC CONDUIT 7. CONDUIT TO BE DIRECT BURIED. CONDUIT TO BE CONCRETE ENCASED WHEN LOCATED BENEATH PAVEMENT. Chief, Division of Transportation Engineering Date SCALE: 1"=30' DATE: APRIL 2025 8. SEE DWG LT-26 FOR PEPCO CONDITIONS. POLE NUMBER Checked by: DJD Drawn by: CJS Sheet <u>251</u> of <u>393</u> Designed by: CJS 9. ROADWAY UTILITY POLE LUMINAIRES TO BE UPGRADED TO LED, TO BE COORDINATED WITH/COMPLETED BY PEPCO. Project No. : 502108 NO. DATE BY REVISION



POLE#	STATION	OFFSET	STREET NAME	WATTAGE	LAMP TYPE	LUMINAIRE STYLE	POLE STYLE
123	170+87	32' LT	BOWIE MILL	70	LED	PROPOSED COLONIAL POST	PROPOSED BLACK FIBERGLASS
124	172+09	31' LT	BOWIE MILL	70	LED	PROPOSED COLONIAL POST	PROPOSED BLACK FIBERGLASS
125	173+75	40' LT	BOWIE MILL	70	LED	PROPOSED COLONIAL POST	PROPOSED BLACK FIBERGLASS

<u>LIGHTING</u>	LEGEND PROPOSED LED COLONIAL POST PEDESTRIAN LIGHT POLE	LIGHTING NOTES: 1. SHEETS LT-01 THRU LT-13 IS WITHIN THE UPPER ROCK CREEK SPECIAL PROTECTION AREA	90% DESIGN NOT FOR CONSTRUCTION			MONTGOMERY COUNTY DEPARTMENT OF TRANSPORTATI GAITHERSBURG, MARYLAND	ON	LIGHTIN	-23 NG PLAN
E1	12" × 24" HANDHOLE	 ALL UTILITY CONFLICTS AND RELOCATIONS WILL REQUIRE COORDINATION WITH THE APPROPRIATE UTILITY COMPANIES. PROPOSED LIGHTING POLES TO BE CABLED AND POWERED BY PEPCO. ALL PROPOSED LIGHTING SHALL INCORPORATE LED LUMINAIRES. 				RECOMMENDED FOR APPROVAL			ILL ROAD Eway
E2	17" × 30" HANDHOLE	 SEE LANDSCAPING PLANS FOR EXISTING TREES TO BE REMOVED. CONTRACTOR TO PROVIDE LIGHT POLES, FOUNDATIONS, FIXTURES, HANDHOLES, AND CONDUIT FOR PEDESTRIAN LIGHTING. PEPCO TO RUN WIRING FROM SOURCE POLES AND SPLICE INTO 				Chief, Design Section APPROVED	Date		
— Е —	(2) 4" SCHEDULE 40 PVC CONDUIT	PROVIDED POLES/ LUMINAIRES AT LOCATIONS NOTED ON PLANS. 7. CONDUIT TO BE DIRECT BURIED. CONDUIT TO BE CONCRETE ENCASED WHEN LOCATED BENEATH PAVEMENT.				Chief, Division of Transportation Engineering	 Date	SCALE: 1"=30'	DATE: APRIL 2025
<u>CP-XX</u>	POLE NUMBER	8. SEE DWG LT-26 FOR PEPCO CONDITIONS. 9. ROADWAY UTILITY POLE LUMINAIRES TO BE UPGRADED TO LED, TO BE COORDINATED WITH/COMPLETED BY PEPCO.		NO. REVISION	DATE BY	Designed by: CJS Drawn by: CJS C	necked by: DJD	Project No. : <u>502108</u>	Sheet <u>252</u> of <u>393</u>

SPECIFICATIONS FOR STREETLIGHT HARDWARE

MONTGOMERY COUNTY DEPARTMENT OF TRANSPORTATION TRAFFIC ENGINEERING AND OPERATIONS

JUNE 2016

RESIDENTIAL, COLONIAL POST-TOP, LED OPTICS, TYPE III DISTRIBUTION, STYLE LUMINAIRE

1) <u>PURPOSE</u>

The purpose of these specifications is to prescribe the minimum requirements for the design, manufacture, fabrication, finishing and delivery of colonial post-top, LED optics, type III distribution, style luminaire. This luminaire is intended for use on or with the black fiberglass pole. These colonial post-tops, LED optics, type III distribution, style luminaires are intended for use along residential roadways, walkways, and tunnels throughout Montgomery County. Any manufacturer, distributor or vendor who submits a bid shall agree to comply with these specifications and attached drawings.

DESCRIPTION The residential, colonial post-top, LED optics, type III distribution, style luminaire is made of a cast aluminum alloy housing.

- Each streetlight luminaire shall include the following:
- a) Cast aluminum housing and hinged top canopy; 120 volt LED Driver;
- 10KV Surge Suppression Device built in;
- NEMA standard photoelectric control receptacle and NEMA multi-volt standard photocell;
- Acrylic or Polycarbonate resin refractor side panels (lens);
- h) All necessary hardware required for mounting on fiberglass poles, as

DESIGN CRITERIA

3.1) AASHTO Standards

The luminaire shall meet the requirements of American Association of State Highway and Transportation Officials (AASHTO) Standard, "Specification for Structural supports for Highway Signs, Luminaires and Traffic Signals," latest

- 3.2) Shape and Minimum Size
 - a) The luminaire shall be of a trapezoidal shape. The minimum size for the luminaire shall 40.0 inches (sum of the length plus height), when viewed from the side.
 - b) The luminaire shall be suitable to accommodate 120 volt LED Driver, 10KV Surge Suppression Device and NEMA standard photoelectric control receptacle and NEMA multi-volt standard photocell.
- 3.3 Effective Projected Area (EPA)

SPECIFICATIONS FOR STREETLIGHT HARDWARE

The luminaire shall have a maximum estimated allowable EPA for the luminaire

of $0.7 \pm \text{square feet}$. 3.4 Finish

The luminaire shall have a black polyester powder coat finish. During the finishing process, all critical openings shall be plugged to prevent contamination of the threads or reduction of other critical openings.

4) MATERIALS 4.1 <u>Housing</u>

The luminaire shall consist of a water tight housing fabricated from die-cast aluminum with a gasketed die-cast aluminum canopy. The canopy shall be hinged on one side and secured on the opposite side with a captive stainless steel screw. All castings used to fabricate the luminaire housing shall be clean and smooth with details defined and true to pattern. The housing shall be suitable to accommodate 120 volt LED Driver, 10KV Surge Suppression Device and NEMA standard photoelectric control receptacle and NEMA multi-volt standard photocell.

4.2 <u>Driver & Surge Protection</u>

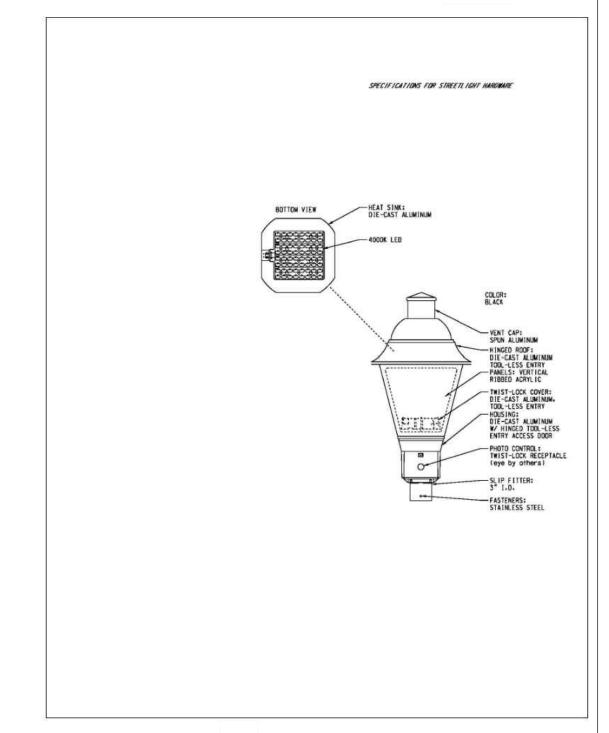
The driver shall be mounted to facilitate easy removal for maintenance operations. The driver shall be equipped with a 10KV Surge Protection and suppression system. All electrical connections shall be polarized and of plug-in design. The driver shall be wired to receive 120 volt AC current. The driver shall reliably start and operate the lamp in ambient temperatures down to minus 30 degrees. The terminal block shall be capable of accepting up to a #6 AWG wire.

- 4.3 <u>LED Color Temperature (CCT) and Rendering Index (CRI)</u> The Correlated Color Temperature (CCT) shall be a nominal Kelvin Temperature
- of 3500K \pm 200K with a minimum Color Rendering Index (CRI) of 70. 4.4 Photoelectric Cell
- The photocell receptacle shall be mounted for easy access and maintenance. The photocell shall be of the NEMA twist-lock type.

4.5 Side refractor panels

The luminaire shall be equipped with acrylic or polycarbonate resin refractor panels, with spring loaded retainer clips to hold refractor panels.

The slip fitter shall have a nominal inside diameter of 3.375 inches +/- 0.25 and shall be secured to the lamp post tenon with three or four evenly spaced set screws. The slip fitter shall accommodate a tenon 3.0 inches long.



SPECIFICATIONS FOR STREETLIGHT HARDWARE

SPECIFICATIONS FOR STREETLIGHT HARDWARE

MONTGOMERY COUNTY, MARYLAND DEPARTMENT OF TRANSPORTATION TRAFFIC ENGINEERING AND OPERATIONS SECTION

JUNE 2016

STREETLIGHT POST NUMBERING TAGS

1) <u>PURPOSE</u>

The purpose of these specifications is to prescribe the minimum requirements for the design, manufacture, fabrication, finishing and delivery of streetlight post numbering tags. Any manufacturer, distributor or vendor who submits a bid shall agree to comply with these specifications and attached drawings.

DESIGN CRITERIA

The streetlight post numbering tags are to be made of aluminum and finished with a similar color coating as that of the streetlight pole it is to be rigidly attached to. This streetlight post numbering tag is intended for use on all streetlight post maintained by Montgomery County.

Each pole numbering tag shall comply to the following:

- a) Be 2" wide and 12" long b) Be a color similar to the streetlight pole
- c) Have 5 numbers of an opposite color placed vertically
- d) All White/Silver surfaces shall be made of retroreflective sheeting e) All colored surfaces shall be nonreflective

3) MATERIALS

a) <u>TAG</u>

The streetlight post numbering tags shall be 12 inches X 2 inches, fabricated from clear anodized 1/16 inch thick aluminum. The edges shall be smooth and corners rounded and the tag shall fit the streetlight pole shaft.

REFLECTIVE AREAS

The streetlight post numbering tag reflective area shall conform to D4956, Type III retroreflective sheeting.

SPECIFICATIONS FOR STREETLIGHT HARDWARE

- NONRELECTIVE AREAS The streetlight post numbering tags nonrelective areas shall be as follows:
 - a. Numbers on white/silver reflective post tag
 - b. Backing on all other streetlight post tags

MOUNTIING HEIGHT

The streetlight post numbering tag should be mounted at a height approximately 10 foot from the surrounding elevation of the ground, unless otherwise approved and directed by the Engineer.

MOUNTING ORIENTATION

The streetlight post numbering tag shall be oriented and rigidly mounted at a 30 to 45 degree angle, so that approaching traffic can readily observe the tags numbers.

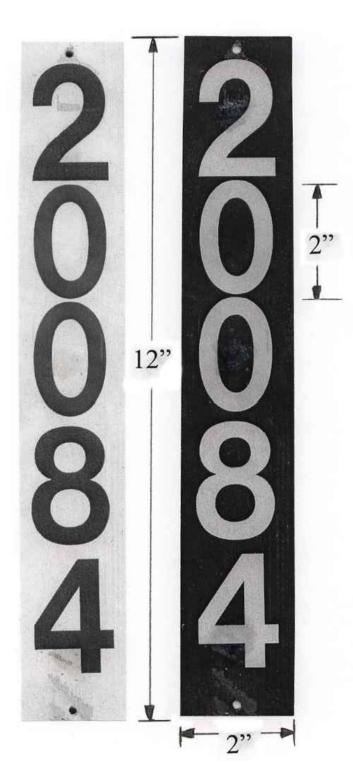
MOUNTING HARDHARE

The streetlight post numbering tag shall be secured to the shaft of the streetlight by a means of two (2) 1/8 inch diameter, 18-8 stainless steel tamper-proof screw.

7) <u>NUMBERS</u>

The streetlight post numbering tag numbers shall be a minimum of 2 inch high with a minimum of a ¼ inch stroke width.

SPECIFICATIONS FOR STREETLIGHT HARDWARE



90% DESIGN NOT FOR CONSTRUCTION



NO.

REVISION

		MONTGOMERY COUNTY DEPARTMENT OF TRANSPORTATION GAITHERSBURG, MARYLAND							
		RECOMMENDED FOR APPROVAL							
		Chief, Design Section Date APPROVED	_						
		Chief, Division of Transportation Engineering Date	_						
DATE	BY	Designed by: CJS Checked by: _DJD							

LT-24 LIGHTING DETAIL BOWIE MILL ROAD BIKEWAY M-NCPPC PERMIT NO. MR2023016 SHA TRACKING NO. 24APMO039XX

SCALE: 1"=30' DATE: APRIL 2025 Sheet <u>253</u> of <u>393</u> Project No. : __502108

FILE NAME: C:\pwworking\jmt\d0642160\pLT-Details Bowie.dwg LAYOUT NAME: LT-24 PLOTTED: Monday, April 07, 2025 - 2:58pm USER: CStricker

SPECIFICATIONS FOR STREETLIGHT HARDWARE

MONTGOMERY COUNTY, MARYLAND DEPARTMENT OF TRANSPORTATION TRAFFIC ENGINEERING AND OPERATIONS

JUNE 2016

DECORATIVE (RESIDENTIAL) LAMP POST FOR USE ON STREETS CLASSIFIED PRIMARY OR LOWER

1) <u>PURPOSE</u>

The purpose of these specifications is to prescribe the minimum requirements for the design, manufacture, fabrication, finishing and delivery of residential, decorative, cast, streetlight poles. These decorative streetlight poles are intended for use along roadways in Montgomery County. Any manufacturer, distributor or vendor who submits a bid shall agree to comply with these specifications and the attached drawings.

Each pole shall include the following:

- Access plate with attachment hardware;
- Anchor Bolts, nuts, and washers (as specified);
- Typical footer design specifications including but not limited to, base template, anchor dimensions, reinforcement and footer details;
- d) One (1) pint of touch-up paint, Federal Green, federal color # 595B,

2) DESIGN CRITERIA

2.1 AASHTO Standards

The residential, decorative, cast, streetlight post shall meet the requirements of the American Association of State Highway and Transportation Officials (AASHTO) Standard, "Specification for Structural supports for Highway Signs, Luminaires and Traffic Signals," latest edition.

2.2 Wind Load

The residential, decorative, cast, streetlight post shall be deigned to resist (at yield strength of the material without permanent deflection or destruction), test loads equivalent to the calculated wind loads developed by the velocity pressures of a 80 MPH wind with a 30% gust factor. A minimum safety factor of 1.82 on the yield strength shall be maintained.

SPECIFICATIONS FOR STREETLIGHT HARDWARE

2.3 Effective Projected Area (EPA)

The residential, decorative, cast, streetlight post shall have a EPA allowable for the following assumptions:

- a) Streetlight luminaire shall be assumed to be rectangular in shape with triangular shapes at the top and bottom, minimum length plus width of sixty-five (65) inches, when viewed from the side.
- b) The streetlight luminaire shall have a nominal mounting height of 12 feet above the base.
- c) One or two (24" x 36") maximum traffic signs may be mounted with the sign's bottom edge 7 feet above the base.

3) MATERIALS

3.1 <u>Iron Casting</u>

The lamp post shall be integrally cast as one piece and shall be cast iron per ASTM A-48--72, Class 30. The sections are to be indicated below. The castings are to be true to pattern, with 16 flutes separated by 16 flat facets. There shall be no visible signs of separation between the cope and drag sections of the mold. All ornamental components shall be cast iron.

3.2 Aluminum Casting

The lamp post may be cast in one piece, as described above, of aluminum alloy of the same details as described above and minimum wall thickness as described below. The alloy used in the casting shall have a minimum yield strength of 30,000 PSI and shall be heat treated as required to provide that yield strength.

3.3 Split Casting

The lamp post may be a multiple piece castings that are factory-assembled into one piece may be considered, provided that there are no gaps between any pieces of the assembly that would allow water seepage or rust. Prior written approval required for the method.

4) PEDESTAL

The pedestal shall be 17 inches \pm 0.25 inch in diameter with a height of 17 1/4 inches \pm 1.0 inch.

5) BOLT CIRCLE

The nominal bolt circle of the lamp post shall be 12.5 inch in diameter and consist of four (4) equally spaced slots to accommodate 5/8 inch diameter anchor bolts

SPECIFICATIONS FOR STREETLIGHT HARDWARE

6) SHAFT

The shaft shall taper uniformly from six (6) inches outside diameter at the bottom to a minimum of four (4) inches outside diameter at the top. The shaft section shall consist of sixteen (16) equally spaced flutes. The outer portion of each flute shall have a flat face, 3/8 +/- 1/16 inches in width. The flutes shall remain constant from the top to the bottom of the tapered shaft

7) <u>HEIGHT</u>

The height of the post, less tenon, shall be 12 feet 0 inches. The weight of the cast iron post with complete door assembly, shall be 460 lbs. +/- 5%. All castings shall be painted with a shop coat of iron oxide primer.

8) <u>TENON</u>

The top of the post shall be equipped with a luminaire mounting tenon integrally cast as a part of the post casting. The tenon shall measure 3.25 +/- 0.25 inches outside diameter and be 2.5 inches long.

9) GROUNDING LUG

The post shall be drilled and tapped for a 1/4 inch - # 20 grounding screw, inside the lamp post and opposite the access door,

10) <u>HANDHOLE</u>

The post shall have an handhole/access door with minimum opening 6 + /- 0.5 inches high and shall be a minimum of $3 \frac{1}{2} + /- 1.0$ inch wide at the top and 7.5 inches +/- 1.0 inches wide at the bottom secured with stainless steel machine screw shall be provided in the base of the lamp post. The handhole is at 90 degrees clockwise with respect to the luminaire arm when viewed from above the pole.

SPECIFICATIONS FOR STREETLIGHT HARDWARE

11) <u>BOTTOM ACCESS HOLE</u>

The pedestal shall have a clear opening at grade a minimum of nine (9) inches in diameter. The base of the lamp post shall have an inside diameter sufficient to accommodate two four inch diameter schedule 40 PVC conduits at the bottom of the post, side by side, for streetlight wiring in accordance with utility company requirements.

12) <u>TOLERANCES</u>

Dimensions may be subject to a tolerance of plus or minus 10%, provided that the appearance and proportions are reasonably identical to the post shown on the attached drawing, in the sole judgement of the County. The 10% tolerance shall <u>not</u> apply to the height of the post nor to the diameter of the tenon, for which no tolerance will be allowed other than normal manufacturing tolerances.

13) ANCHOR BOLTS

Each post shall be furnished with four (4) anchor bolts, each 5/8 inches diameter x 24 inch long, plus a 3" "L" at the bottom. Each bolt shall be supplied with one (1) nut and one (1) washer. Bolts, nuts, and washers shall be fully hot dipped galvanized in accordance with ASTM A153.

14) <u>FINISH</u>

15.1 <u>Cast Aluminum</u>

The cast aluminum poles, access doors, and hardware shall be finished with a dark green electrostatically-applied thermoset polyester powder coat, color "Federal Green" or approved equal, as per the attached finish specification "ICS-2". One pint can of Federal Green touch-up enamel or approved equal, shall be supplied.

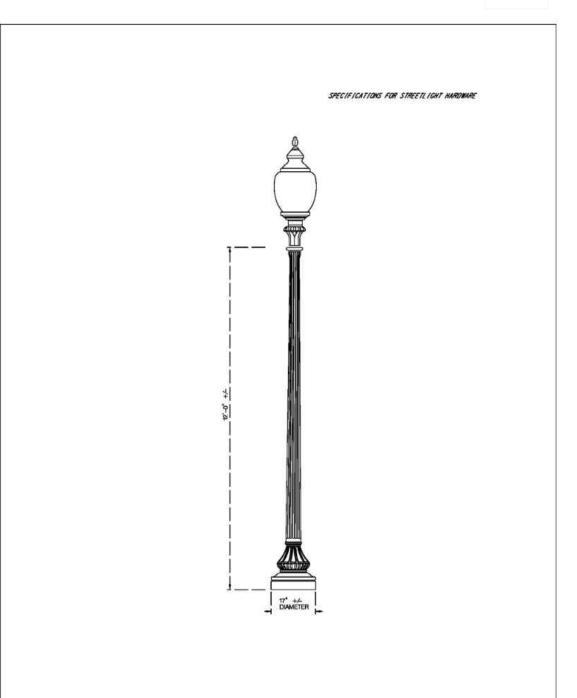
15.2 <u>Cast Iron</u>

The cast iron poles and all components shall be supplied with one coat of oil-based red lead primer paint. Two (2) coats of enamel "Federal Green", federal color 595B, # 14036 shall be applied to each pole in the field.

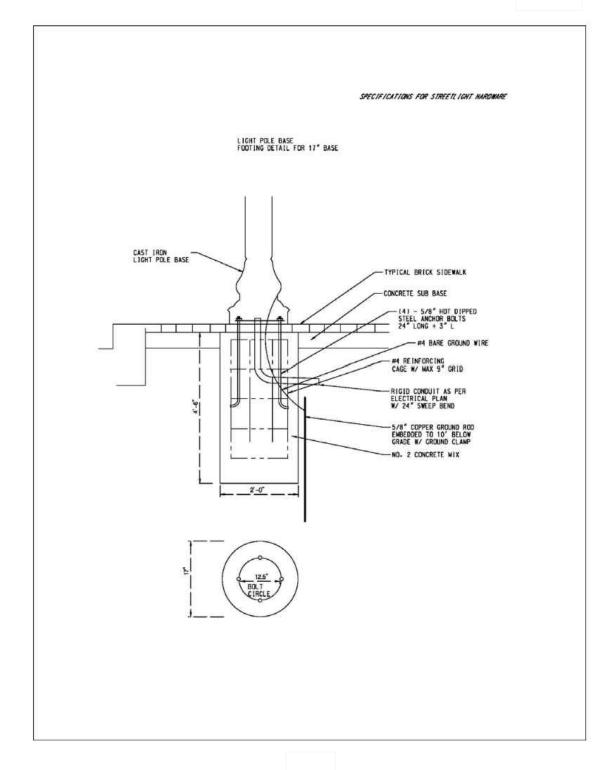
16) POLE INFORMATION The lamp post shall be a

The lamp post shall be either the Antique Capitol Series, C12/17-CI/PP, the Washington #12 Standard modified to 12 foot 0 inches in height, less tenon, or approved equal.

SPECIFICATIONS FOR STREETLIGHT HARDWARE



SPECIFICATIONS FOR STREETLIGHT HARDWARE



90% DESIGN NOT FOR CONSTRUCTION



NO.

REVISION

RECOMMENDED FOR

Chief, Design Section
APPROVED

Chief, Division of Trans

BY

DATE

MONTGOMERY COUNTY
DEPARTMENT OF TRANSPORTATION
GAITHERSBURG, MARYLAND

RECOMMENDED FOR APPROVAL

Chief, Design Section
APPROVED

Chief, Division of Transportation Engineering
Date

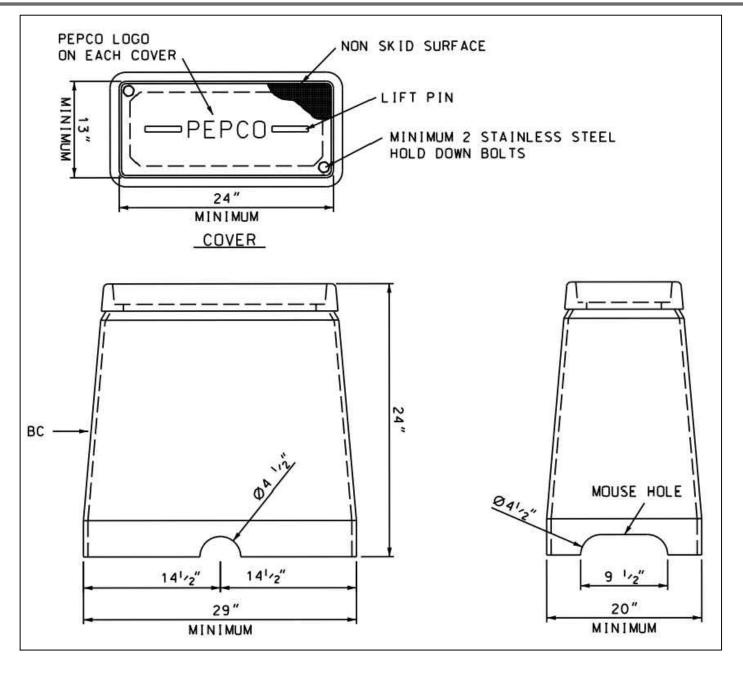
Designed by: CJS Drawn by: CJS Checked by: DJD

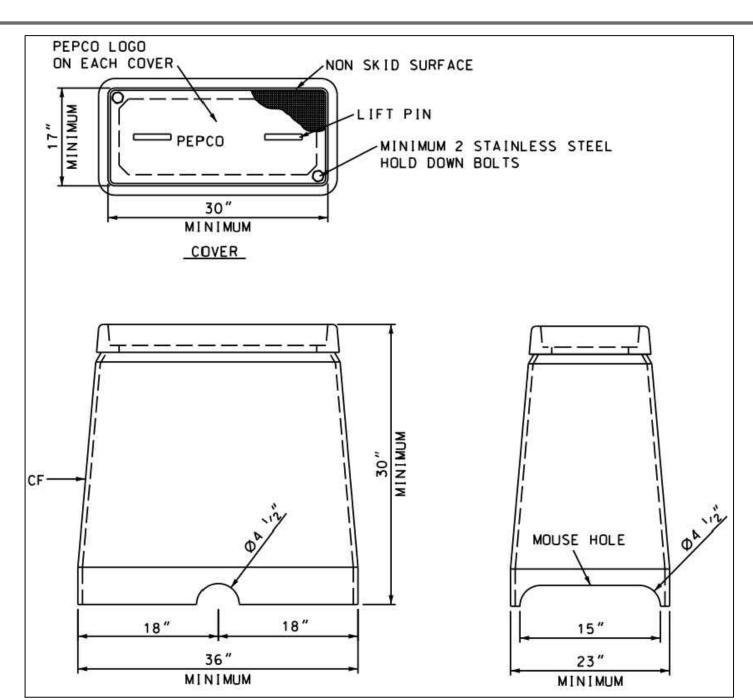
LT-25
LIGHTING DETAIL
BOWIE MILL ROAD
BIKEWAY
M-NCPPC PERMIT NO. MR2023016 SHA TRACKING NO. 24APM0039XX

0 30' 60'

SCALE: 1"=30' DATE: APRIL 2025

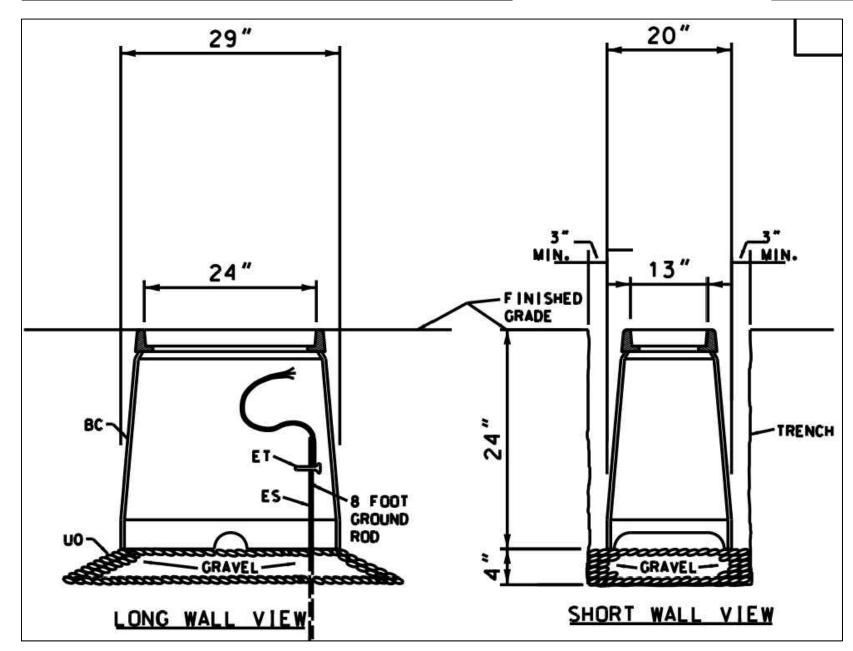
Project No.: 502108 Sheet 254 of 393



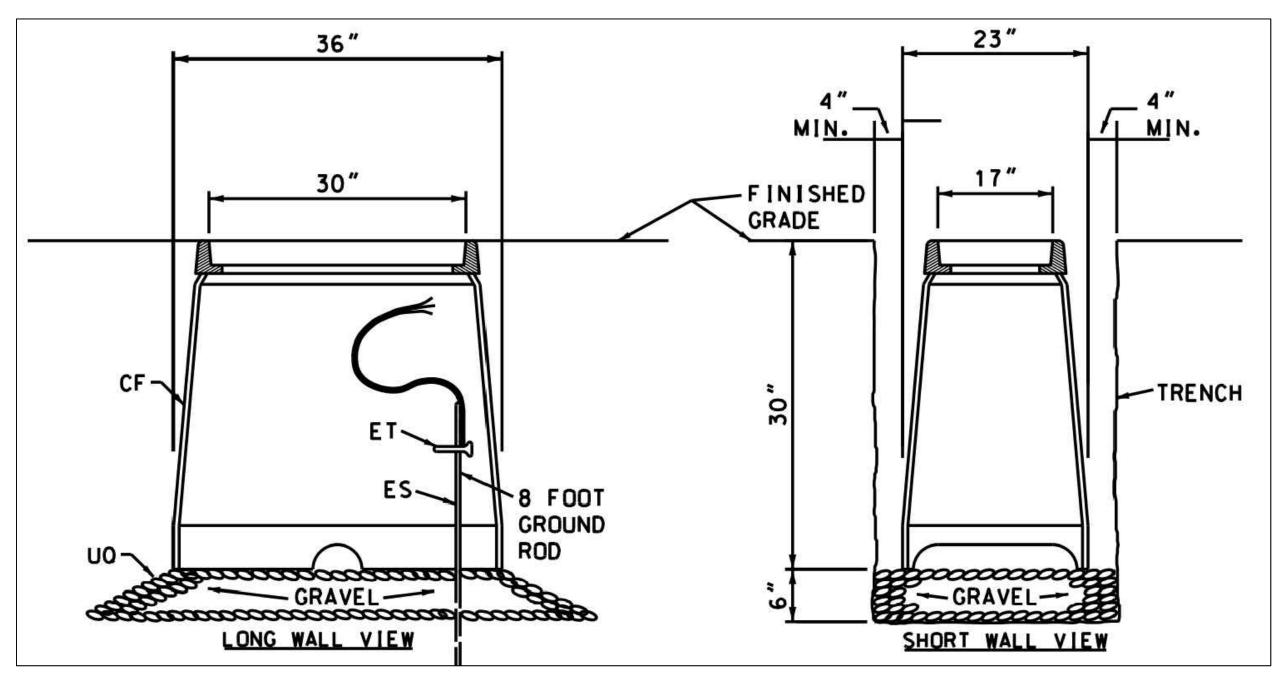


HANDHOLE DETAIL - 12" X 24" PEPCO SPLICE BOX

HANDHOLE DETAIL - 17" X 30" PEPCO SOURCE POLE BOX



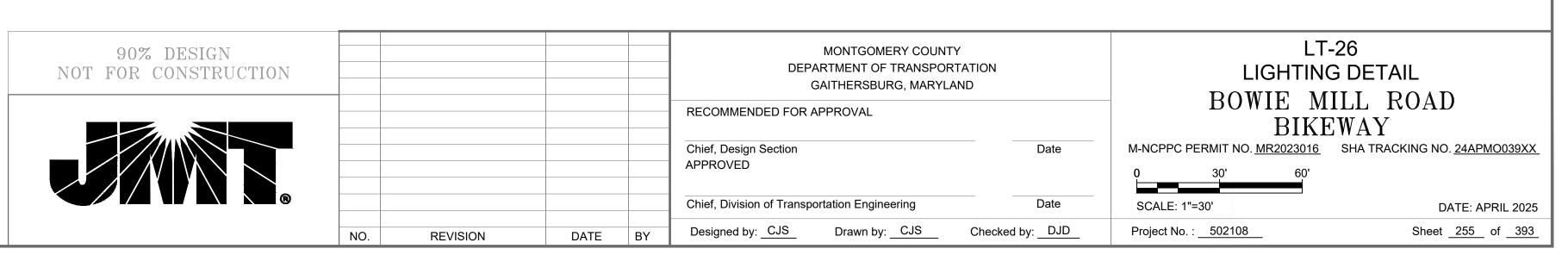
HANDHOLE DETAIL - 12" X 24" PEPCO SPLICE BOX

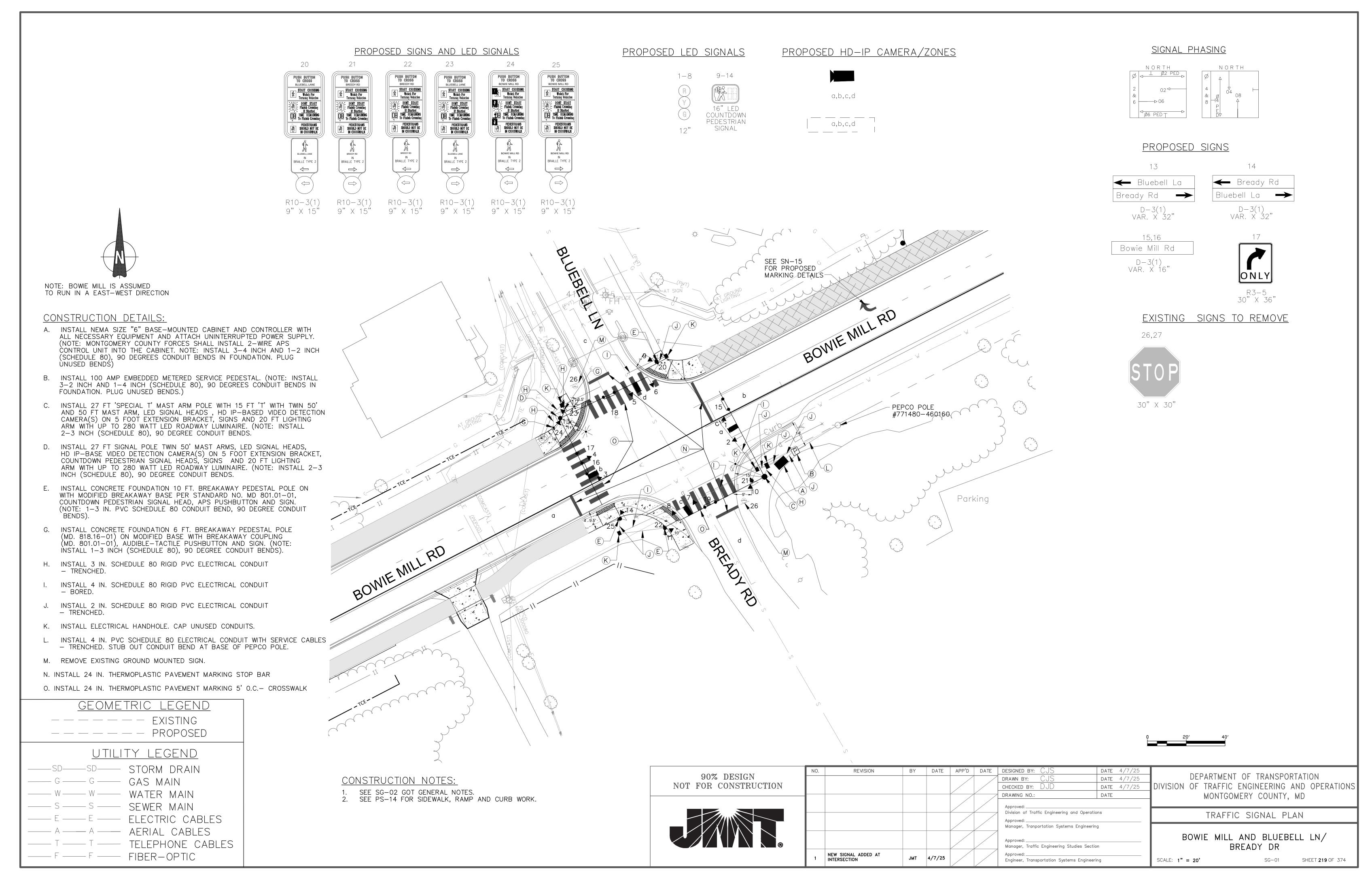


HANDHOLE DETAIL - 17" X 30" PEPCO SOURCE POLE BOX

PEPCO CONDITIONS:

- 1. CUSTOMER TO OBTAIN ALL PERMITS / PERMISSION REQUIRED BY OTHERS ON PRIVATE PROPERTY.
- 2. ALL MATERIALS USED ARE TO CONFORM TO PEPCO SPECIFICATIONS. ALL WORK MUST BE DONE IN ACCORDANCE WITH PEPCO'S STANDARDS AND SPECIFICATIONS.
- 3. WORK TO BE DONE IN A MANNER ACCEPTABLE TO PEPCO AND INSPECTED BY PEPCO'S CONDUIT DEPARTMENT BEFORE ENCASEMENT OR BACKFILLING. E-MAIL CONDUIT INSPECTOR JAMES BROWN, (JBROWN@PEPCO.COM), TWO (2) WEEKS IN ADVANCE TO ARRANGE PRE-CONSTRUCTION MEETING AND SCHEDULE INSPECTION. (CUSTOMER MUST FIRST SUBMIT A DRAWING OF THE FACILITIES TO BE BUILT FOR PEPCO AND APPROVED BY PEPCO).
- TRANFORMER PAD (INCLUDING GROUNDING) IS TO BE BUILT IN ACCORDANCE WITH PEPCO SPECIFICATION DRAWINGS C.D.007.01, 2-2-0983_2.4, 2.2.0983_4.4, C.D.006.01, C.D.006.02 AND BUILT ON LEVEL GROUND. TEN FEET (10') OF CLEAR SPACE MUST BE PROVIDED IN FRONT OF THE PAD AND THREE FEET (3') ON SIDES AND BACK. PAD MUST BE ACCESSIBLE FROM A ROAD, DRIVE, OR PARKING LOT.
- 5. CONDUIT TO BE BUILT IN ACCORDANCE WITH PEPCO SPECIFICATION DRAWINGS NO. 6-1-480 AND C.D.001.01.
- 6. SWEEPBENDS MUST HAVE A RADIUS OF NO LESS THAN 36'.
- 7. NYLON PULL LINES TO BE INSTALLED IN EACH DUCT FOR FUTURE CABLE INSTALLATION.
- 8. MANHOLES TO BE CONSTRUCTED WITH 3000 PSI CONCRETE.
- 9. NO MORE THAN 180° OF BENDS OF DUCT LINE.
- 10. CONDUIT TO HAVE THREE FEET (3') OF COVER (TOP OF DUCT TO FINISHED GRADE).
- 11. CONDUIT TO BE ENCASED IN 2000 PSI CONCRETE WITH PEA GRAVEL. NO METALLIC MATERIALS (REBARS, HOLD DOWN WIRES, ETC.) SHALL BE PERMITTED IN SPACES BETWEEN EACH DUCT.
- 12. CUSTOMER TO ROD ALL CONDUITS, CLEAR ANY OBSTRUCTIONS, AND PROVIDE NYLON PULL LINES PRIOR TO THE INSTALLATION OF PEPCO CABLES.
- 13. CUSTOMER TO COORDINATE EXACT DEPTH AND LOCATION OF ALL STUB OUTS WITH PEPCO CONSTRUCTION
- 14. TRANSFORMERS TO BE LOCATED TWENTY (20) FEET FROM COMBUSTIBLE WALLS. SEE PEPCO SPECIFICATION DRAWINGS C.D.006.01, C.D.006.02.
- 15. ALL ON SITE STRUCTURAL FACILITIES INCLUDING CONDUIT, SPLICE BOXES, TRANSFORMER PADS, ETC. PROVIDED, INSTALLED, AND MAINTAINED BY THE CUSTOMER.
- 16. TRANSFORMER GROUND GRID TO BE #2 STRANDED, SOFT DRAWN COPPER TINNED (60 FEET), AND 2 FT OF \$ STRANDED, SOFT DRAWN COPPER TINNED. PADS TO BE GROUNDED IN CONFORMANCE WITH PEPCO SPECIFICATION DRAWING NUMBER 2.2.0983_4.4 DATED 05/05/09.
- 17. FOR LOCATIONS OF UTILITIES, CALL 24 HOURS A DAY 1-800-257-7777, 48 HOURS IN ADVANCE OF ANY WORK IN THIS VICINITY.
- 18. THE TROUGH MUST HAVE REMOVABLE COVERS WITH PROVISIONS FOR SEALS. ALL REMOVABLE COVERS TO BE HANDLED BY ONE MAN.
- 19. THE MINIMUM MOUNTING HEIGHT FOR METERS IS 30 INCHES TO THE BOTTOM OF THE METER GLASS. MAXIMUM MOUNTING HEIGHT IS 66 INCHES TO THE BOTTOM OF THE GLASS.
- 20. ALL METERING CURRENT TRANSFORMER MOUNTING DIMENSIONS, DRILLING, SPACINGS, AND STUDS MUST COMPLY WITH PEPCO SPECIFICATION DRAWINGS 5-5-0606.1.1, 5-5-0695.2.3, 5-5-0695.3.3. THE MINIMUM ACCEPTABLE DIMENSIONS, DRILLING, ETC. FOR PEPCO LINE CONNECTIONS TO C/T CABINETS/COMPARTMENTS (INCLUDING SAFETY BARRIER WHERE APPLICABLE), MAINLINE SWITCHES AND MAIN INCOMING BUS CABINETS/COMPARTMENTS/SECTIONS ARE SHOWN ON PEPCO PURCHASE SPECIFICATION DRAWINGS 5-5-0606.1.1, 5-5-0695.2.3, 5-5-0695.3.3. REFER TO: HTTP://WWW.PEPCO.COM/BUSINESS/ AND GO TO APPROVED LV SWITCHGEAR (WWW.PEPCO.COM/_RES/DOCUMENTS/SWITCHGEAR.PDF).
- 21. HYLUGS USED BY PEPCO REQUIRE NEMA 2-HOLE SPACING.
- 22. PEPCO IS TO BE NOTIFIED 2 WEEKS (10 WORKING DAYS) BEFORE THE SETTING OF ANY POLES, MANHOLES, POURING OF ANY CONCRETE AND/OR THE BACKFILLING OF ANY TRENCH TO MAKE ARRANGEMENTS FOR THE INSPECTION AND APPROVAL OF YOUR ON SITE SERVICE CONNECTION STRUCTURAL EQUIPMENT. E-MAIL WAYNE JOSEY (WJOSEY@PEPCO.COM) TWO (2) WEEKS IN ADVANCE TO ARRANGE PRE-CONSTRUCTION MEETING AND SCHEDULE INSPECTION.
- 23. ALL OTHER UNDERGROUND UTILITIES IN THE VICINITY ARE TO BE SHOWN. THE MINIMUM LONGITUDINAL AND VERTICAL SEPARATION BETWEEN FOREIGN STRUCTURES AND CONDUIT SET BY PEPCO SHALL BE MAINTAINED:
 - TELEPHONE CONDUIT 3" CONCRETE OR 12" EARTH
 - GAS CONDUIT UNDER 16" DIAMETER 12"
 - GAS CONDUIT OVER 16" DIAMETER 18"
 - WATER AND SEWER 4' HORIZONTAL IN DC AND 5' HORIZONTAL IN MD, WITH 1' VERTICAL CLEARANCE. MAINTAIN 5'-0" MINIMUM (HORIZONTAL) AND 1'-0" (VERTICAL) CLEARANCE FROM ALL UNDERGROUND UTILITIES.
- 24. THE MAXIMUM SIZE OF A SERVICE CONDUCTOR RATED 600 VOLTS OR LESS SHALL NOT EXCEED 500 KCM FOR COPPER OR ALUMINUM CONDUCTOR. *REFER TO WWW.PEPCO.COM/BUSINESS FOR THE MOST UP TO DATE PEPCO STANDARD DRAWINGS AND CONSTRUCTION DETAILS AND SPECIFICATIONS.





PROJECT DESCRIPTION

I. GENERAL

THIS PROJECT INVOLVES THE CONSTRUCTION OF A NEW TRAFFIC CONTROL SIGNAL AT THE INTERSECTION OF BOWIE MILL RD AND BREADY RD/ BLUEBELL LN IN MONTGOMERY COUNTY. AS A PART OF THE LARGER SIDEWALK CONNECTIVITY IMPROVEMENT PROJECT, ALL CURB RAMPS, CROSSWALKS, ACCESSIBLE PEDESTRIAN SIGNALS (APS) WITH AUDIBLE PUSHBUTTONS AND COUNTDOWN PEDESTRIAN SIGNAL (CPS) HEADS WILL BE INSTALLED. BOWIE MILL RD IS ASSUMED TO RUN IN AN EAST-WEST DIRECTION.

II. INTERSECTION OPERATION

1. THE INTERSECTION SHALL OPERATE IN A NEMA FOUR-PHASE, FULLY-ACTUATED MODE, WITH THE BOWIE MILL ROAD APPROACHES RUNNING CONCURRENTLY. BREADY/BLUEBELL APPROCAHES WILL RUN CONCURRENTLY. THE PEDESTRIAN PHASES CROSSING BOWIE MILL RD, BLUEBELL ROAD, AND BREADY ROAD SHALL BE COUNTDOWN PEDESTRIAN PHASES WITH PUSHBUTTON ACTUATION.

III. SPECIAL NOTES

- 1. THE CONTRACTOR SHALL BE RESPONSIBLE FOR TERMINATING ALL SIGNAL CABLES, EXCLUDING INTERCONNECT, TO THE APPROPRIATE TERMINALS AND SHALL PROPERLY LABEL EACH CABLE.
- 2. ALL CONTROLLER CABINET WIRING WILL BE PERFORMED BY MONTGOMERY COUNTY FORCES. CONTACT KAMAL HAMUD AT (240) 777-8761 SEVENTY-TWO (72) HOURS IN ADVANCE OF INTENDED WORK.
- ALL UNDERGROUND AND OVERHEAD UTILITIES SHOWN ON THESE PLANS ARE SCHEMATIC ONLY AND MAY NOT BE COMPLETE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR NOTIFYING MISS UTILITY PRIOR TO CONSTRUCTION SO THAT ALL UTILITIES MAY BE LOCATED IN THE FIELD. IF THE CONTRACTOR PERCEIVES THAT A CONFLICT BETWEEN THE UTILITIES AND THE TRAFFIC SIGNAL WILL OCCUR, THE CONTRACTOR SHALL NOTIFY THE PROJECT ENGINEER IMMEDIATELY SO THAT THE CONFLICT MAY BE RESOLVED.

APS WILL FUNCTION AS FOLLOWS

FOR BOWIE MILL ROAD

- A. WHEN A PEDESTRIAN LOCATES AND PRESSES THE PUSHBUTTON FOR AN EXTENDED TIME, THE PUSHBUTTON MESSAGE WILL BE "WAIT TO CROSS BOWIE MILL AT BLUEBELL WAIT."
- B. WHEN THE "WALK" PHASE BEGINS, THE MESSAGE WILL BE A RAPID TICK WHICH WILL LAST FOR THE DURATION OF THE "WALK" PHASE.

FOR BLUEBELL BOULEVARD

- A. WHEN A PEDESTRIAN LOCATES AND PRESSES THE PUSHBUTTON FOR AN EXTENDED TIME, THE PUSHBUTTON MESSAGE WILL BE "WAIT TO CROSS BLUEBELL AT BOWIE MILL WAIT."
- B. WHEN THE "WALK" PHASE BEGINS, THE MESSAGE WILL BE A RAPID TICK WHICH WILL LAST FOR THE DURATION OF THE "WALK" PHASE.

FOR BREADY ROAD

- A. WHEN A PEDESTRIAN LOCATES AND PRESSES THE PUSHBUTTON FOR AN EXTENDED TIME, THE PUSHBUTTON MESSAGE WILL BE "WAIT TO CROSS BREADY AT BOWIE MILL WAIT."
- B. WHEN THE "WALK" PHASE BEGINS, THE MESSAGE WILL BE A RAPID TICK WHICH WILL LAST FOR THE DURATION OF THE "WALK" PHASE.

GENERAL NOTES

- 1. MAINTENANCE OF TRAFFIC WILL BE HANDLED BY THE CONTRACTOR FOLLOWING MONTGOMERY COUNTY GUIDELINES UTILIZING THE MOST RECENT EDITION OF THE MARYLAND MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES FOR TRAFFIC CONTROL
- 2. ALL TRAFFIC SIGNAL FOUNDATIONS SHALL BE INSTALLED AT THE FINAL SIDEWALK OR CURB GRADE FOR CLOSED SECTIONS, HIGHEST ROADWAY PROFILE GRADE FOR OPEN SECTIONS, TO MEET CLEARANCES AS SPECIFIED IN MD 816.03, MD 818.01, MD 818.02, MD 818.04. THE CONTRACTOR SHALL VERIFY THE ULTIMATE GRADES PRIOR TO INSTALLATION OF ALL SIGNAL EQUIPMENT.
- 3. THE CONTRACTOR SHALL INTEGRATE CONCRETE FOUNDATIONS WITH THE PROPOSED SIDEWALK WHERE NECESSARY.
- 4. THE CONTRACTOR SHALL CONTACT MONTGOMERY COUNTY TMC AT 240-777-2100, 72 HOURS PRIOR TO STARTING ALL WORK.
- 5. PUSHBUTTON IS TO BE LOCATED SO THAT A PEDESTRIAN IN A WHEELCHAIR LOCATED ON THE LEVEL LANDING AREA DOES NOT HAVE TO REACH MORE THAN 18 INCHES. PUSHBUTTONS ARE TO BE LOCATED SO THAT THEY CAN BE ACTIVATED BY A PERSON IN A WHEELCHAIR FROM A 60 INCH X 60 INCH LEVEL LANDING AREA. A LEVEL LANDING AREA IS AN AREA WITH A CROSS SLOPE OF LESS THAN OR EQUAL TO 2%.
- 6. THE CONTRACTOR SHALL VERIFY ALL PROPOSED POLE FOUNDATIONS PRIOR TO INSTALLATION. 7. ALL PAVEMENT MARKINGS DETAILED ARE PROPOSED AND ARE TO BE INSTALLED IN ACCORDANCE WITH MONTGOMERY COUNTY STANDARDS. ALL CROSSWALKS SHALL BE CENTERED ON HANDICAP RAMPS OR MEDIAN CUT THROUGHS.
- 8. ALL TRAFFIC SIGNAL MODIFICATIONS SHALL BE CONSTRUCTED PRIOR TO SIDEWALK INSTALLATION, INCLUDING CONDUIT. MONTGOMERY COUNTY WILL BE RESPONSIBLE FOR ALL INTERNAL CABINET WIRING. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ROUTING, TERMINATING AND PROPERLY LABELING ALL SIGNAL
- 9. LOCATION OF ACCESSIBLE PEDESTRIAN SIGNAL PUSHBUTTONS MUST MEET LOCATION REQUIREMENTS OF MARYLAND MUTCD SECTION 4E.09 AND FIGURE 4E.2; AND THE NCHRP PUBLICATION, "ACCESSIBLE PEDESTRIAN SIGNALS: GUIDE TO BEST PRACTICE." IF NOT MET, THE CONTRACTOR IS TO STOP WORK ON PUSHBUTTON LOCATIONS AND NOTIFY THE PROJECT ENGINEER. IF NEEDED A DESIGN WAIVER SHALL BE OBTAINED, APPROVED BY THE CHIEF, MONTGOMERY COUNTY DIVISION OF TRAFFIC ENGINEERING AND OPERATIONS.
- 10. THE CONTRACTOR SHALL REMOVE ALL UNUSED WIRING.

EQUIPMENT LIST

A. EQUIPMENT TO BE SUPPLIED BY MONTGOMERY COUNTY DEPARTMENT OF TRANSPORTATION AND INSTALLED BY THE CONTRACTOR.

R3-5 (30" X 36")

FOUNDATION AND GROUND ROD

ITEM NO. 818013	QUANTITY 6 EA	DESCRIPTION 6 FOOT OR 10 FOOT PEDESTAL POLE, POWEDER COAT, WITH BREAKAWAY COUPLING FOUNDATION AND GROUND ROD
971047	1 EA	CONTROLLER CABINET, SIZE "S" WITH CONTROLLER AND HD IP-BASED VIDEO DETECTION COMMUNICATION MANAGER INTERFACE PANEL
973025	37.5 SF	SHEET ALUMINUM MAST ARM/POLE MOUNTED SIGN D-3(1) (VAR. X 16") DUAL-FACED MAST ARM MOUNT D-3(1) (VAR. X 16") DUAL-FACED MAST ARM MOUNT (2)

B. EQUIPMENT TO BE FURNISHED AND/OR INSTALLED BY CONTRACTOR

ITEM NO.	QUANTITY	DESCRIPTION
549419	270 SF	24 INCH WHITE THERMOPLASTIC PAVEMENT MARKINGS
801616	37.5 SF	INSTALL OVERHEAD OR GROUND MOUNTED SIGNS (INCLUDING ALL HARDWARE)
802501	310 LF	NO. 6 AWG STRANDED BARE COPPER GROUND WIRE
805119	207 LF	UP TO 4 INCH SCHEDULE 80 RIGID PVC CONDUIT - BORED
805141	100 LF	UP TO 4 INCH SCHEDULE 80 RIGID PVC CONDUIT - TRENCHED
806030	2 EA	ANY SIZE LIGHTING ARM ON SIGNAL POLE WITH LED ROADWAY LUMINAIRE
807206	1 EA	UP TO 200 AMP EMBEDDED METERED SERVICE PEDESTAL, CONCRETE COLLAR & GROUND RODS
8011001	4 EA	FURNISH AND INSTALL ELECTRICAL HANDHOLE
810019	200 LF	ELECTRICAL CABLE 3-CONDUCTOR NO. 12-AWG COPPER TYPE T/C
818007	4 EA	INSTALL BREAKAWAY PEDESTAL POLE (ANY SIZE) WITH FOUNDATION AND GROUND RODS
818152	2 EA	INSTALL STRAIN OR MAST ARM POLE, SINGLE OR TWIN ARM WITH FOUNDATION, AND GROUND RODS
832018	25 LF	CABLE - 1 CONDUCTOR, NO. 2 AWG TYPE USE 600V
860284	24 EA	12 INCH LED VEHICULAR TRAFFIC SIGNAL HEAD SECTION
860285	6 EA	16 INCH LED COUNTDOWN PEDESTRIAN SIGNAL HEAD
861105	630 LF	2—CONDUCTOR ELECTRICAL CABLE (NO. 14 AWG)
861107	1500 LF	5—CONDUCTOR ELECTRICAL CABLE (NO. 14 AWG)
861108	550 LF	7—CONDUCTOR ELECTRICAL CABLE (NO. 14 AWG)
865210	6 EA	AUDIBLE/TACTILE PEDESTRIAN PUSHBUTTON STATION AND SIGNS
865300	1 EA	2 WIRE APS CENTRAL CONTROL UNIT
871210	1 EA	INSTALL CONTROLLER AND CABINET BASE MOUNTED (ANY SIZE) WITH FURNISH AND INSTALL

SEQUENCE OF OPERATION SHEET

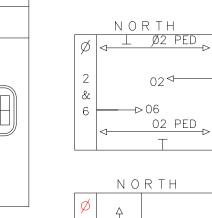
BOWIE MILL RD IS ASSUMED TO RUN IN A EAST-WEST

DIRECTION

TRAFFIC OPERATIONS SECTION DIVISION OF TRAFFIC ENGINEERING MONTGOMERY COUNTY, MARYLAND

BOWIE MILL RD AND INTERSECTION: BLUEBELL LN/BREADY RD

SIGNAL HEAD INDICATIONS SIGNAL NO. 9 - 14TOTAL: LEGEND OPTICALLY — LIMITED R RED Y YELLOW G GREEN **←** ARROW F FLASHING



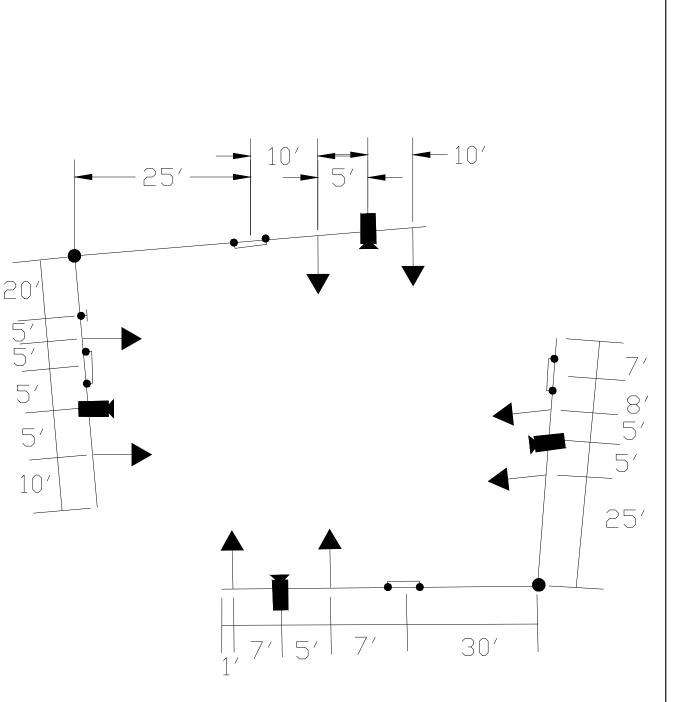
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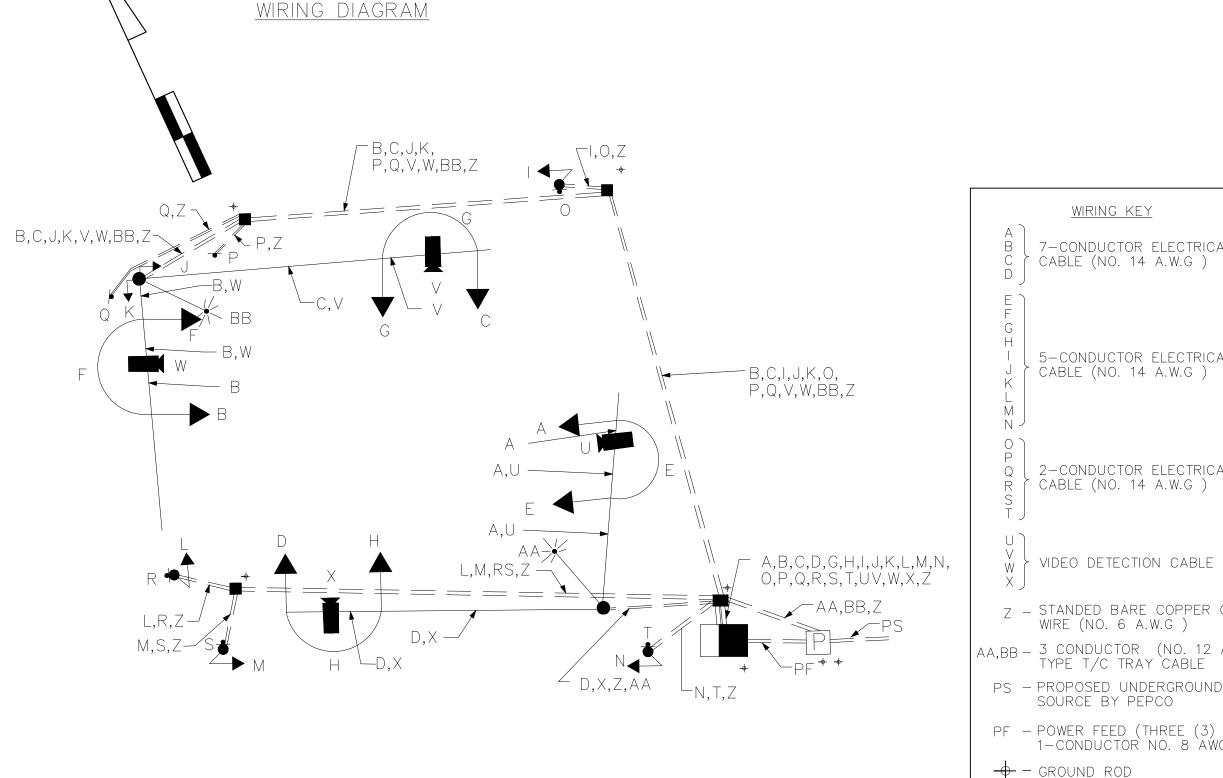
PHASING

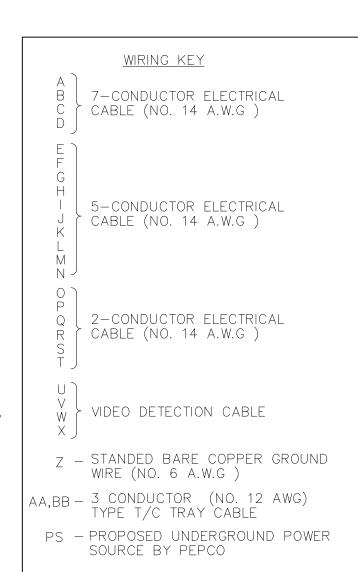
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3	G	G	Υ	R	R	R	R	R	FL/Y				
4	G	G	Υ	R	R	R	R	R	FL/Y				
5	R	R	R	R	G	G	Υ	R	FL/R				
6	R	R	R	R	G	G	Υ	R	FL/R				
7	R	R	R	R	G	G	Υ	R	FL/R				
8	R	R	R	R	G	G	Υ	R	FL/R				
9	WK	FL/DW	DW	DW	DW	DW	DW	DW	DARK				
10	WK	FL/DW	DW	DW	DW	DW	DW	DW	DARK				
11	WK	FL/DW	DW	DW	DW	DW	DW	DW	DARK				
12	WK	FL/DW	DW	DW	DW	DW	DW	DW	DARK				
13	DW	DW	DW	DW	WK	FL/DW	DW	DW	DARK				
14	DW	DW	DW	DW	WK	FL/DW	DW	DW	DARK				
PHASE		2 & 6		ALL RED		4 & 8		ALL RED					



SUBMITTED:	CHECKED:	APPROVED:
IN SERVICE BY:	DATE:	TIME:





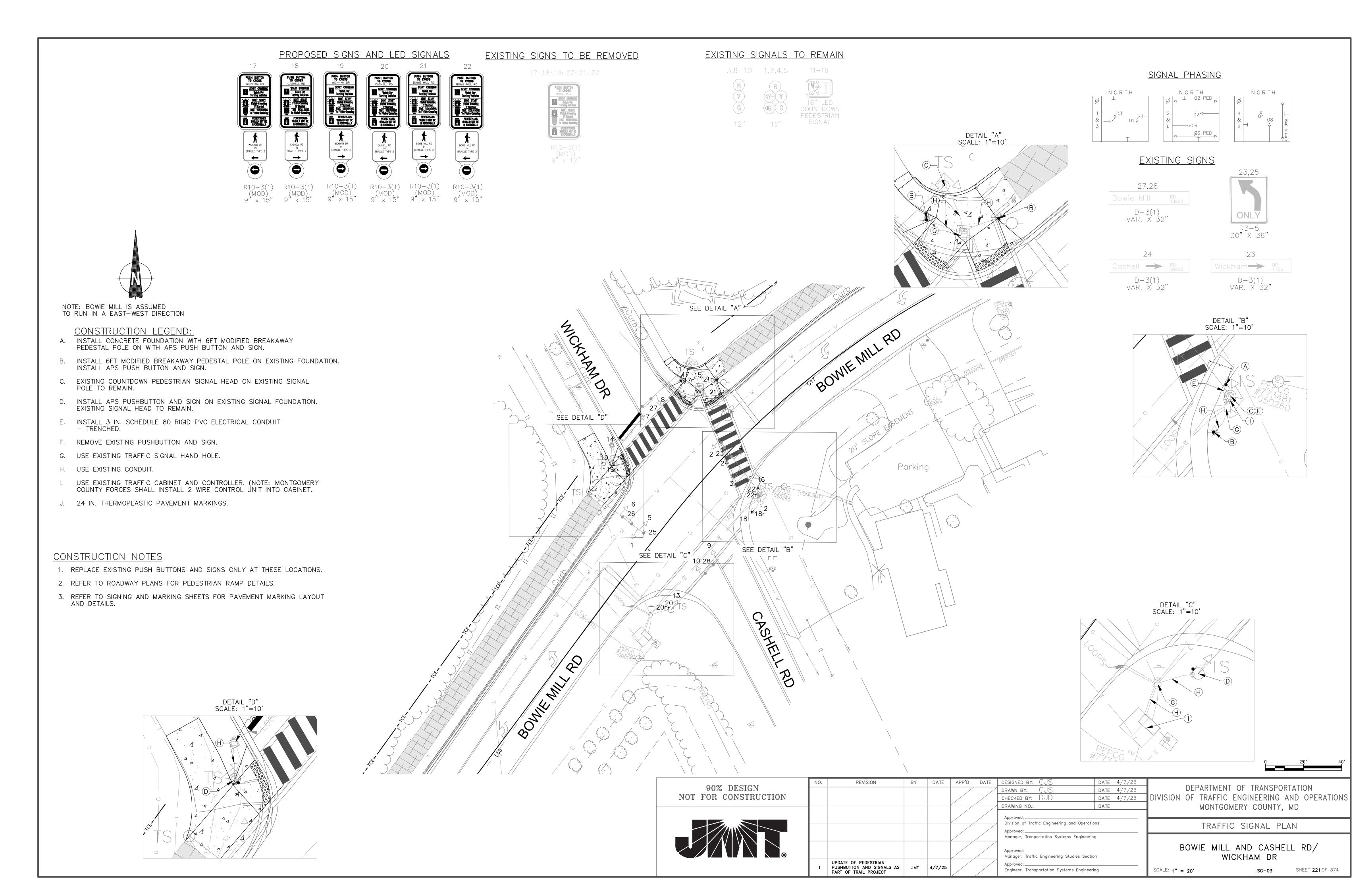


1-CONDUCTOR NO. 8 AWG)

BY DATE APP'D DATE DESIGNED BY: CJS REVISION **DATE** 4/7/25 DEPARTMENT OF TRANSPORTATION 90% DESIGN **DATE** 4/7/25DRAWN BY: CJS NOT FOR CONSTRUCTION DIVISION OF TRAFFIC ENGINEERING AND OPERATIONS **DATE** 4/7/25CHECKED BY: DJD DATE MONTGOMERY COUNTY, MD DRAWING NO .: Division of Traffic Engineering and Operations TRAFFIC SIGNAL PLAN

Manager, Tranportation Systems Engineering Manager, Traffic Engineering Studies Section Engineer, Transportation Systems Engineering

BOWIE MILL AND BLUEBELL LN/ BREADY DR SCALE: NTS SHEET **220** OF 374 SG-02



PROJECT DESCRIPTION

I. GENERAL

THIS PROJECT INVOLVES MODIFYING A EXISTING TRAFFIC CONTROL SIGNAL AT THE INTERSECTION OF BOWIE MILL AND WICKHAM/ CASHELL IN MONTGOMERY COUNTY. AS A PART OF THE LARGER SIDEWALK CONNECTIVITY IMPROVEMENT PROJECT, ALL CURB RAMPS, CROSSWALKS, ACCESSIBLE PEDESTRIAN SIGNALS (APS) WITH AUDIBLE PUSHBUTTONS AND COUNTDOWN PEDESTRIAN SIGNAL (CPS) HEADS WILL BE ADDED.BOWIE MILL IS ASSUMED TO RUN IN AN EAST—WEST DIRECTION.

- II. INTERSECTION OPERATION
- 1. THE INTERSECTION SHALL CONTINUE TO OPERATE IN A NEMA SIX-PHASE, FULLY-ACTUATED MODE, WITH THE BOWIE MILL ROAD APPROACHES RUNNING CONCURRENTLY.
 THE PEDESTRIAN PHASES CROSSING BOWIE MILL RD AND CASHELL/ WICKHAM ROAD SHALL BE COUNTDOWN PEDESTRIAN PHASES WITH PUSHBUTTON ACTUATION.
- III. SPECIAL NOTES
- 1. THE CONTRACTOR SHALL BE RESPONSIBLE FOR TERMINATING ALL SIGNAL CABLES, EXCLUDING INTERCONNECT, TO THE APPROPRIATE TERMINALS AND SHALL PROPERLY LABEL EACH CABLE.
- 2. ALL CONTROLLER CABINET WIRING WILL BE PERFORMED BY MONTGOMERY COUNTY FORCES. CONTACT KAMAL HAMUD AT (240) 777-8761 SEVENTY-TWO (72) HOURS IN ADVANCE OF INTENDED WORK.
- 3. ALL UNDERGROUND AND OVERHEAD UTILITIES SHOWN ON THESE PLANS ARE SCHEMATIC ONLY AND MAY NOT BE COMPLETE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR NOTIFYING MISS UTILITY PRIOR TO CONSTRUCTION SO THAT ALL UTILITIES MAY BE LOCATED IN THE FIELD. IF THE CONTRACTOR PERCEIVES THAT A CONFLICT BETWEEN THE UTILITIES AND THE TRAFFIC SIGNAL WILL OCCUR, THE CONTRACTOR SHALL NOTIFY THE PROJECT ENGINEER IMMEDIATELY SO THAT THE CONFLICT MAY BE RESOLVED.

APS WILL FUNCTION AS FOLLOWS

FOR BOWIE MILL ROA

A. WHEN A PEDESTRIAN LOCATES AND PRESSES THE PUSHBUTTON FOR AN EXTENDED TIME, THE PUSHBUTTON MESSAGE WILL BE "WAIT TO CROSS BOWIE MILL AT CASHELL WAIT."

B. WHEN THE "WALK" PHASE BEGINS, THE MESSAGE WILL BE A RAPID TICK WHICH WILL LAST FOR THE DURATION OF THE "WALK" PHASE.

FOR CASHELL BOULEVARD

- A. WHEN A PEDESTRIAN LOCATES AND PRESSES THE PUSHBUTTON FOR AN EXTENDED TIME, THE PUSHBUTTON
- MESSAGE WILL BE "WAIT TO CROSS CASHELL AT BOWIE MILL WAIT."

 B. WHEN THE "WALK" PHASE BEGINS, THE MESSAGE WILL BE A RAPID TICK WHICH WILL LAST FOR THE DURATION OF THE "WALK" PHASE.

FOR WICKHAM DRIVE

- A. WHEN A PEDESTRIAN LOCATES AND PRESSES THE PUSHBUTTON FOR AN EXTENDED TIME, THE PUSHBUTTON
- MESSAGE WILL BE "WAIT TO CROSS WICKHAM AT BOWIE MILL WAIT."
- B. WHEN THE "WALK" PHASE BEGINS, THE MESSAGE WILL BE A RAPID TICK WHICH WILL LAST FOR THE DURATION OF THE "WALK" PHASE.

GENERAL NOTES

- 1. MAINTENANCE OF TRAFFIC WILL BE HANDLED BY THE CONTRACTOR FOLLOWING MONTGOMERY COUNTY GUIDELINES UTILIZING THE MOST RECENT EDITION OF THE MARYLAND MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES FOR TRAFFIC CONTROL.
- 2. ALL TRAFFIC SIGNAL FOUNDATIONS SHALL BE INSTALLED AT THE FINAL SIDEWALK OR CURB GRADE FOR CLOSED SECTIONS, HIGHEST ROADWAY PROFILE GRADE FOR OPEN SECTIONS, TO MEET CLEARANCES AS SPECIFIED IN MD 816.03, MD 818.01, MD 818.02, MD 818.04. THE CONTRACTOR SHALL VERIFY THE ULTIMATE GRADES PRIOR TO INSTALLATION OF ALL SIGNAL EQUIPMENT.
- 3. THE CONTRACTOR SHALL INTEGRATE CONCRETE FOUNDATIONS WITH THE PROPOSED SIDEWALK WHERE
- 4. THE CONTRACTOR SHALL CONTACT MONTGOMERY COUNTY TMC AT 240-777-2100, 72 HOURS PRIOR TO STARTING ALL WORK.
- 5. PUSHBUTTON IS TO BE LOCATED SO THAT A PEDESTRIAN IN A WHEELCHAIR LOCATED ON THE LEVEL
- LANDING AREA DOES NOT HAVE TO REACH MORE THAN 18 INCHES.
 7. THE CONTRACTOR SHALL VERIFY ALL PROPOSED POLE FOUNDATIONS PRIOR TO INSTALLATION.
- 8. ALL PAVEMENT MARKINGS DETAILED ARE PROPOSED AND ARE TO BE INSTALLED IN ACCORDANCE WITH MONTGOMERY COUNTY STANDARDS. ALL CROSSWALKS SHALL BE CENTERED ON HANDICAP RAMPS OR MEDIAN CUT THROUGHS.
- 9. ALL TRAFFIC SIGNAL MODIFICATIONS SHALL BE CONSTRUCTED PRIOR TO SIDEWALK INSTALLATION, INCLUDING CONDUIT. MONTGOMERY COUNTY WILL BE RESPONSIBLE FOR ALL INTERNAL CABINET WIRING. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ROUTING, TERMINATING AND PROPERLY LABELING ALL SIGNAL CARLES
- 10. LOCATION OF ACCESSIBLE PEDESTRIAN SIGNAL PUSHBUTTONS MUST MEET LOCATION REQUIREMENTS OF MARYLAND MUTCD SECTION 4E.09 AND FIGURE 4E.2; AND THE NCHRP PUBLICATION, "ACCESSIBLE PEDESTRIAN SIGNALS: GUIDE TO BEST PRACTICE." IF NOT MET, THE CONTRACTOR IS TO STOP WORK ON PUSHBUTTON LOCATIONS AND NOTIFY THE PROJECT ENGINEER. IF NEEDED A DESIGN WAIVER SHALL BE OBTAINED, APPROVED BY THE CHIEF, MONTGOMERY COUNTY DIVISION OF TRAFFIC ENGINEERING AND OPERATIONS.
- 11. PUSHBUTTONS ARE TO BE LOCATED SO THAT THEY CAN BE ACTIVATED BY A PERSON IN A WHEELCHAIR FROM A 60 INCH X 60 INCH LEVEL LANDING AREA. A LEVEL LANDING AREA IS AN AREA WITH A CROSS SLOPE OF LESS THAN OR EQUAL TO 2%.
- 12. THE CONTRACTOR SHALL REMOVE ALL UNUSED WIRING.

EQUIPMENT LIST

A. EQUIPMENT TO BE SUPPLIED BY MONTGOMERY COUNTY DEPARTMENT OF TRANSPORTATION AND INSTALLED BY THE CONTRACTOR.

ITEM NO.	QUANTITY	DESCRIPTION
973024	9.625 SF	SHEET ALUMINUM MAST ARM/POLE MOUNTED SIGN R10-3(1) (9"X15") POLE MOUNT (8)

B. EQUIPMENT TO BE FURNISHED AND/OR INSTALLED BY CONTRACTOR

ITEM NO.	QUANTITY	DESCRIPTION
549419	96 LF	24 INCH WHITE THERMOPLASTIC PAVEMENT MARKINGS
805135	20 LF	3 INCH SCHEDULE 80 RIGID PVC CONDUIT (TRENCHED
822510	55 LF	DISCONNECT, PULL BACK AND REROUTE CABLES
861105	20 LF	2-CONDUCTOR ELECTRICAL CABLE (NO. 14 AWG)
802501	2 LF	NO. 6 AWG STRANDED BARE COPPER GROUND WIRE
818003	1 EA	6 FOOT BREAKAWAY PEDESTAL POLE.
821003	1 EA	BREAKAWAY BASE SUPPORT SYSTEM FOR SIGNAL STRUCTURE
865210	6 EA	AUDIBLE/TACTILE PEDESTRIAN PUSHBUTTON STATION AND SIGNS
873005	1 EA	REMOVE AND DISPOSE OF EXISTING MATERIAL AND EQUIPMENT
865300	1 EA	2 WIRE APS CENTRAL CONTROL UNIT

SEQUENCE OF OPERATION SHEET

BOWIE MILL RD
IS ASSUMED TO RUN IN A
EAST-WEST

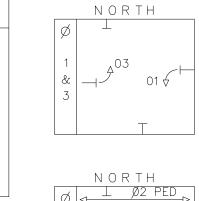
DIRECTION

TRAFFIC OPERATIONS SECTION
DIVISION OF TRAFFIC ENGINEERING
MONTGOMERY COUNTY, MARYLAND

BOWIE MILL RD AND INTERSECTION: CASHELL RD AND WICKHAM DR

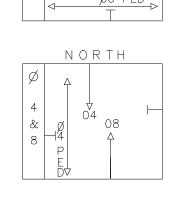
	SIGI	VAL HE	EAD INDIC	ATIONS))
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6	R	R	G	G	Υ	R	R	R	R	R	FL/R
7	R	R	R	R	R	R	G	G	Υ	R	FL/R
8	R	R	R	R	R	R	G	G	Υ	R	FL/R
9	R	R	R	R	R	R	G	G	Υ	R	FL/R
10	R	R	R	R	R	R	G	G	Υ	R	FL/R
11	DW	DW	WK	FL/DW	DW	DW	DW	DW	DW	DW	DARK
12	DW	DW	WK	FL/DW	DW	DW	DW	DW	DW	DW	DARK
13	DW	DW	WK	FL/DW	DW	DW	DW	DW	DW	DW	DARK
14	DW	DW	WK	FL/DW	DW	DW	DW	DW	DW	DW	DARK
15	DW	DW	DW	DW	DW	DW	WK	FL/DW	DW	DW	DARK
16	DW	DW	DW	DW	DW	DW	WK	FL/DW	DW	DW	DARK
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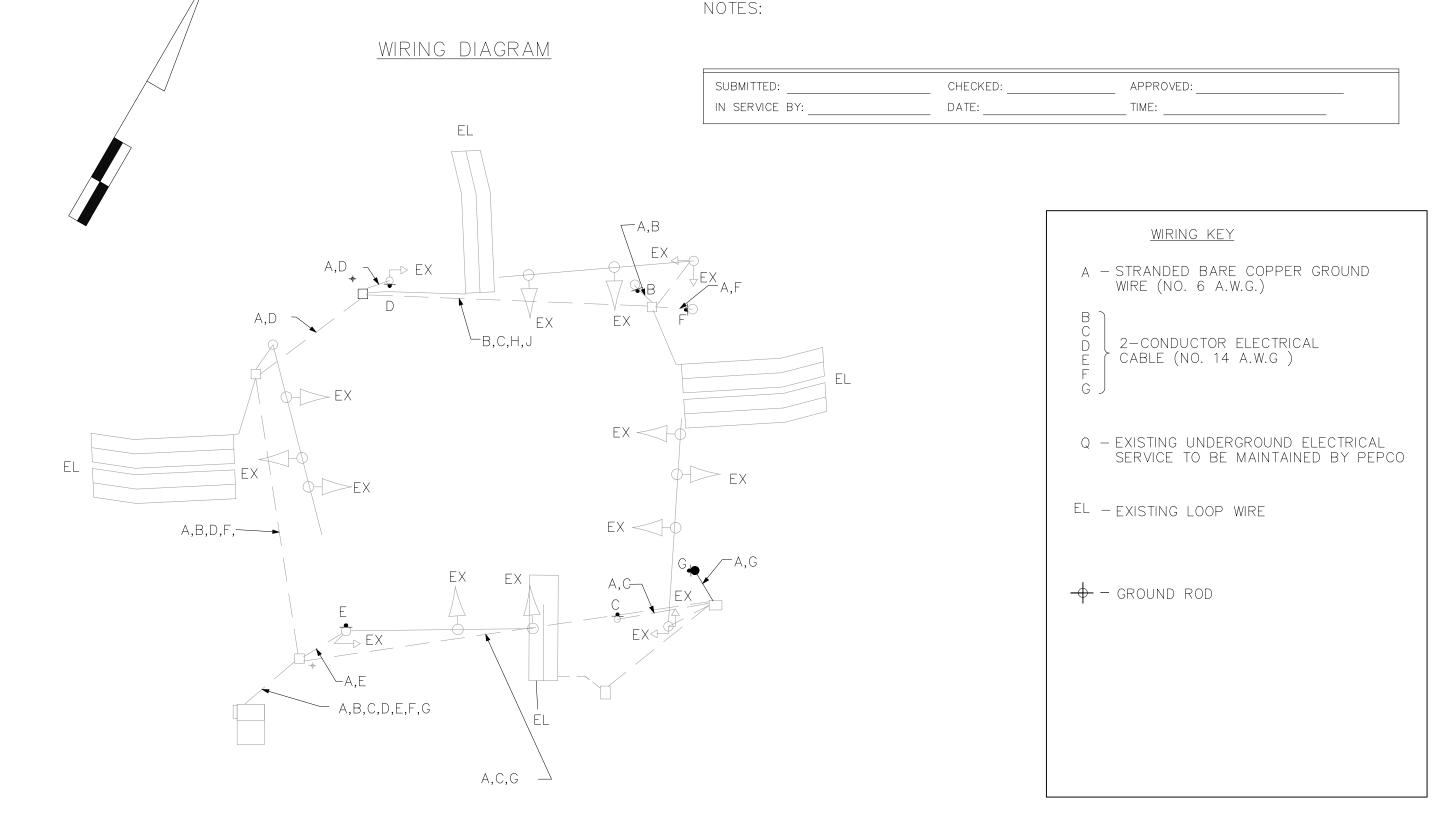


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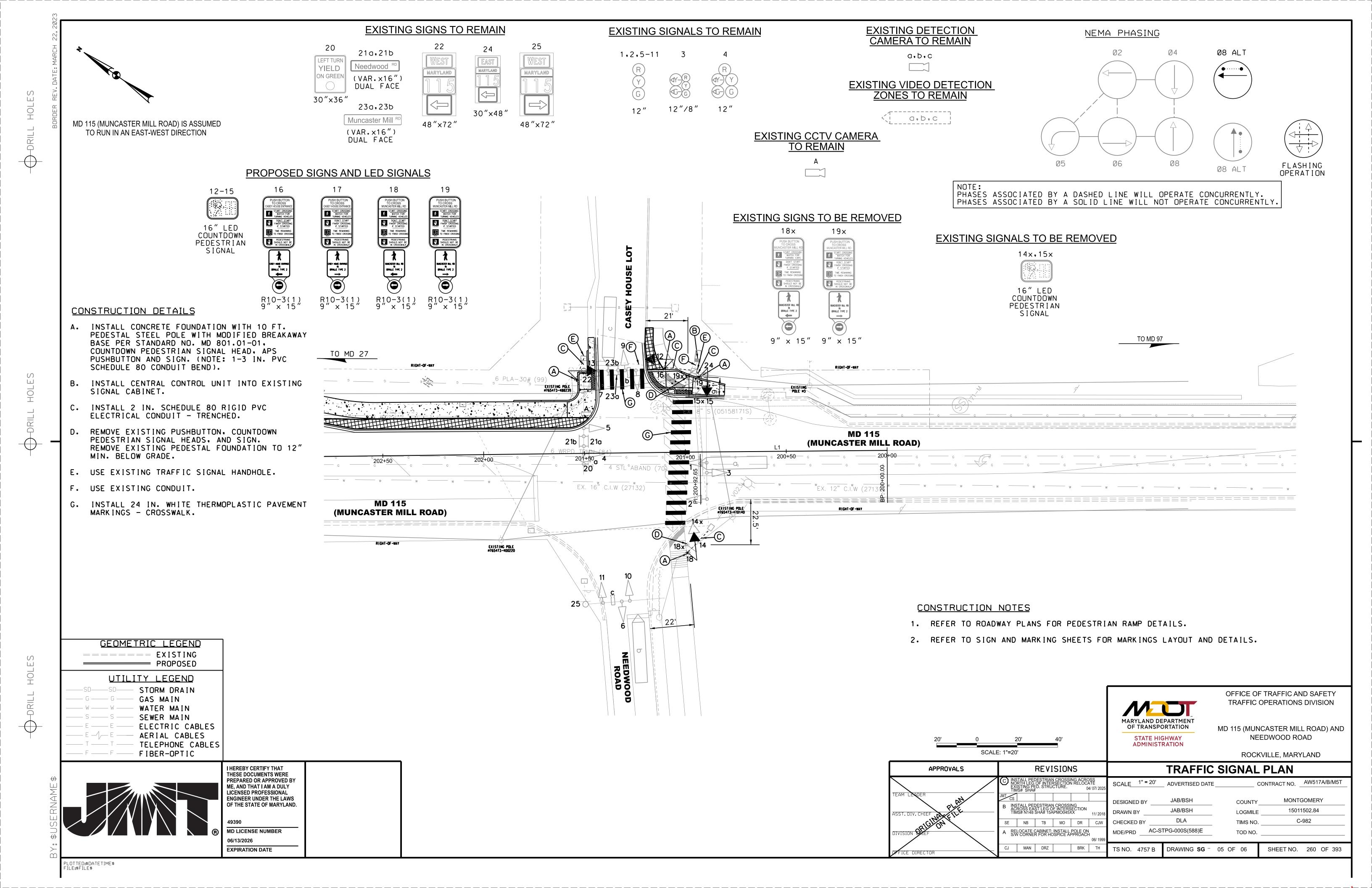
PHASING







OOM DEGION	NO.	REVISION	BY	DATE	APP'D	DATE	DESIGNED BY: CJS	DATE 4/7/25	DEDARTMENT OF TRANSPORTATION		
90% DESIGN							DRAWN BY: CJS	DATE 4/7/25	DEPARTMENT OF TRANSPORTATION		
NOT FOR CONSTRUCTION							CHECKED BY: DJD	DATE 4/7/25	DIVISION OF TRAFFIC ENGINEERING AND OPERATIONS		
							DRAWING NO.:	DATE	MONTGOMERY COUNTY, MD		
							Approved:				
							Division of Traffic Engineering and Operati Approved:	ions	TRAFFIC SIGNAL PLAN		
							Manager, Tranportation Systems Engineerin	ng			
							Approved: Manager, Traffic Engineering Studies Section		BOWIE MILL AND CASHELL RD/		
									WICKHAM DR		
					Approved: Engineer, Transportation Systems Engineering		SCALE: NTS SG-04 SHEET 222 OF 374				



PROJECT DESCRIPTION

I. GENERAL

THIS PROJECT INVOLVES THE INSTALLATION OF PEDESTRIAN SIGNALS ALONG THE NORTH LEG AT THE INTERSECTION OF MD 115 (MUNCASTER MILL ROAD) AND NEEDWOOD ROAD IN MONTGOMERY COUNTY. THERE WILL BE MODIFICATIONS TO THE SIDEWALK AND ROAD EDGE GEOMETRY IN THE NORTHWEST AND NORTHEAST CORNERS. MD 115 (MUNCASTER MILL ROAD) IS ASSUMED TO RUN IN THE EAST-WEST DIRECTION.

II. INTERSECTION OPERATION

1. THE INTERSECTION WILL OPERATE IN A NEMA FIVE-PHASE, SEMI-TRAFFIC ACTUATED MODE, WITH THE MD 115 APPROACHES OPERATING CONCURRENTLY. AND THE NEEDWOOD ROAD/CASEY HOUSE ENTRANCE APPROACHES OPERATING CONCURRENTLY.

EXCLUSIVE/PERMISSIVE LEFT TURN PHASING WILL BE PROVIDED FOR WESTBOUND MD 115.

AN ALTERNATIVE PEDESTRIAN PHASE IS PROVIDED ACROSS THE EAST LEG OF MD 115.

III. CONTROLLER REQUIREMENTS

THE EXISTING FULL-TRAFFIC- ACTUATED. EIGHT-PHASE CONTROLLER. VIDEO DETECTION INTERFACE.

THE EXISTING UPS SYSTEM SHALL BE UP-GRADED AND REPLACED IN THE EXISTING BASE-MOUNTED CABINET.

IV. APS WILL FUNCTION AS FOLLOWS

TO CROSS MD 115 (MUNCASTER MILL ROAD) AT NEEDWOOD ROAD:

- A. WHEN PEDESTRIAN LOCATES AND PRESSES THE PUSHBUTTON FOR AN EXTENDED TIME, THE PUSHBUTTON UNIT MESSAGE WILL BE : "WAIT TO CROSS MUNCASTER AT NEEDWOOD WAIT"
- B. WHEN WALK PHASE BEGINS. THE MESSAGE WILL BE A RAPID TICK WHICH WILL LAST THE DURATION OF THE WALK PHASE.

TO CROSS HOSPICE ENTRANCE AT MD 115 (MUNCASTER MILL RD):

- A. WHEN PEDESTRIAN LOCATES AND PRESSES THE PUSHBUTTON FOR AN EXTENDED TIME. THE PUSHBUTTON
- UNIT MESSAGE WILL BE : "WAIT TO CROSS ENTRANCE AT MUNCASTER MILL WAIT" B. WHEN WALK PHASE BEGINS. THE MESSAGE WILL BE A RAPID TICK WHICH WILL LAST THE DURATION OF THE WALK PHASE.

GENERAL NOTES

- 1. MAINTENANCE OF TRAFFIC WILL BE HANDLED BY THE CONTRACTOR UTILIZING MD SHA STANDARD TYPICALS FOR TRAFFIC CONTROL.
- 2. THE CONTRACTOR SHALL VERIFY ALL PROPOSED POLE LOCATIONS PRIOR TO INSTALLATION. ALL POLES. HANDHOLES. CONDUITS UNDER PAVEMENT. CABINETS. AND METERED SERVICE PEDESTALS SHALL BE STAKED OUT AND EVERY LOCATION APPROVED BY THE ENGINEER BEFORE ANY WORK IS PERFORMED.
- 3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR TERMINATING ALL SIGNAL CABLE TO THE APPROPRIATE TERMINALS AND PROPERLY LABEL EACH CABLE. TAGS SHALL BE INSTALLED ON EACH CABLE IN THE CONTROLLER CABINET AS WELL AS EACH HANDHOLE.
- 4. ALL UNUSED CABLE SHALL BE REMOVED AND DISPOSED OF BY THE CONTRACTOR.
- 5. NO. 6 AWG STRANDED BARE COPPER GROUND WIRE INSTALLED IN EACH HANDHOLE SHALL CONNECT THE GROUNDED LUG ON THE LID/COLLAR TO THE GROUND ROD IN THE BASE OF THE HANDHOLE TO PROPERLY GROUND THE STRUCTURE.
- 6. UNDERGROUND AND OVERHEAD UTILITIES SHOWN ON THESE PLANS ARE SCHEMATIC ONLY AND MAY NOT BE COMPLETE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR NOTIFYING MISS UTILITY PRIOR TO CONSTRUCTION SO THAT ALL UTILITIES MAY BE LOCATED IN THE FIELD. IF THE CONTRACTOR PERCEIVES THAT A CONFLICT BETWEEN THE UTILITIES AND THE TRAFFIC SIGNAL WILL OCCUR, THE CONTRACTOR SHALL NOTIFY THE PROJECT ENGINEER IMMEDIATELY SO THAT THE CONFLICT MAY BE RESOLVED.
- 7. ALL PEDESTAL FOUNDATION TOPS SHALL BE INSTALLED FLUSH WITH SIDEWALK GRAND OR BUILT INTO BACKER CURB.
- THE CONTRACTOR SHALL INTEGRATE PROPOSED/EXISTING CONCRETE FOUNDATIONS WITH NEW CURB OR SIDEWALK RAMPS WHERE NECESSARY. THE FOUNDATIONS SHALL BE FLUSH WITH. AND PART OF. THE FINAL CURB OR SIDEWALK GRADE TO INCREASE ACCESSIBILITY FOR PEDESTRIANS.
- 9. LOCATION OF ACCESSIBLE PEDESTRIAN SIGNAL PUSHBUTTONS MUST MEET LOCATION REQUIREMENTS OF MUTCD SEC. 4E.08 AND 4E.10 AND FIG. 4E-3 AND 4E-4 OF THE NCHRP PUBLICATION. "ACCESSIBLE PEDESTRIAN SIGNAL: GUIDE TO BEST PRACTICE". IF NOT MET, THE CONTRACTOR IS TO STOP WORK ON PUSHBUTTON LOCATIONS UNTIL A DESIGN WAIVER IS OBTAINED, APPROVED BY THE DIRECTOR, OFFICE OF TRAFFIC AND SAFETY.
- 10. PUSHBUTTONS ARE TO BE LOCATED SO THAT THEY CAN BE ACTIVATED BY A PERSON IN A WHEELCHAIR REACHING LESS THAN 18" FROM A 60"X60" LEVEL LANDING AREA WITH A CROSS SLOPE OF LESS THAN OR EQUAL TO 2%.
- 11. THE 10' SEPARATION BETWEEN PUSHBUTTONS IS TO BE MEASURED FROM FACE OF PUSHBUTTON TO FACE OF PUSHBUTTON. NOT CENTER TO CENTER OF POLE.
- 12. PUSHBUTTON ARROWS ARE TO BE PARALLEL TO THE CROSSING FOR WHICH THEY ARE INTENDED.
- 13. PUSHBUTTONS ARE TO BE MOUNTED AT A HEIGHT OF 42".
- 14. DURING CONSTRUCTION, PROPOSED SIGNAL EQUIPMENT SHALL NOT BLOCK EXISTING SIGNAL EQUIPMENT.
- 15. THE CONTRACTOR SHALL CAP AND ABANDON CONDUITS FEEDING EXISTING SIGNAL EQUIPMENT THAT IS REMOVED.
- 16. THE CONTRACTOR SHALL CONTACT MICHAEL BASSO AT THE SIGNAL SHOP (410-365-7258) TO DELIVER APS EQUIPMENT
- 17. WITHIN 36 IN. OF UNDERGROUND UTILITY LOCATIONS, THE CONTRACTOR SHALL BE REQUIRED TO EXCAVATE FOR FOUNDATION AND CONDUIT BY HAND.
- 18. HAND DIGGING FOR INSTALLATION OR REMOVAL OF SIGNAL EQUIPMENT, SIGNS, CURB AND SIDEWALK SHALL BE INCIDENTAL TO THE ITEMS IN THE EQUIPMENT LIST. NO ADDITIONAL COMPENSATION WILL BE PROVIDED FOR HAND DIGGING.
- 19. THE CONTRACTOR SHALL MAINTAIN THE CONTINUOUS OPERATION OF ALL SIGNAL AND LIGHTING DEVICES. IF ANY DEVICE IS DAMAGED BY THE CONTRACTOR. IT SHALL BE REPAIRED WITHIN 72 HOURS BY THE CONTRACTOR AT NO COST TO THE ADMINISTRATION AFTER NOTIFICATION BY THE ENGINEER.
- 20. 10 FEET OF SLACK SHALL BE PROVIDED IN EACH HANDHOLE FOR INTERCONNECT CABLE.



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.

MD LICENSE NUMBER

06/13/2026 **EXPIRATION DATE**

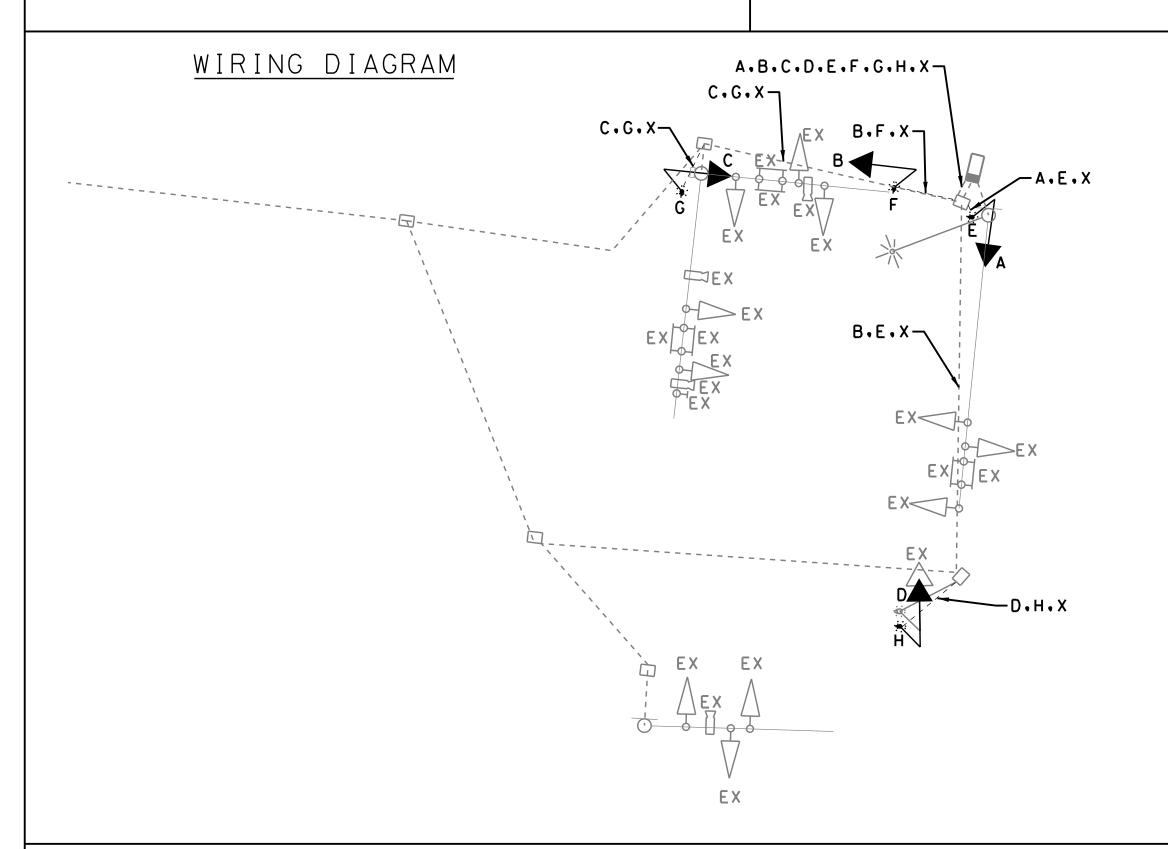
EOUIPMENT LIST

A. EQUIPMENT TO BE FURNISHED BY THE COUNTY AND INSTALLED BY THE CONTRACTOR.

ITEM NO.	UNITS	QUANTITY	DESCRIPTION
973025	SF	3	PUSHBUTTON SIGN THREE (3) R10-3(1) SIGNS (9"X15"

B. EQUIPME			ND/OR INSTALLED BY CONTRACTOR. ALL
EQUIPMENT COUNTY PRI		VECATALOG CU' STALLATION.	TS SUBMITTED AND APPROVED BY MONTGOMERY
ITEM NO.	UNITS	QUANTITY	DESCRIPTION
203030 549617	CY LF	1 180	TEST PIT EXCAVATION 24 INCH WHITE PREFORMED THERMOPLASTIC PAVEMENT MARKING LINES
801004 802501	CY FT	0.4 130	CONCRETE FOR SIGNAL FOUNDATION NO. 6 AWG STRANDED BARE COPPER GROUND WIRE
805125	FT	30	2 INCH SCHEDULE 80 RIGID PVC CONDUIT- TRENCHED
818004	EA	4	10 FOOT BREAKAWAY PEDESTAL POLE
837001	EA	1	GROUND ROD - 3/4 INCH DIAMETER X 10 FOOT LENGTH
860285	EA	4	16 INCH LED COUNTDOWN PEDESTRIAN SIGNAL HEAD
861105	LF	160	ELECTRICAL CABLE - 2 CONDUCTOR (NO. 14 AWG)
861107	LF	170	ELECTRICAL CABLE - 5 CONDUCTOR
865210	EA	4	AUDIBLE/TACTILE PEDESTRIAN PUSHBUTTON STATION AND SIGNS
865300	EA	1	2-WIRE APS CENTRAL CONTROL UNIT

							<u>PH</u>	<u> 15E</u>	CH	<u>IAR</u>	Τ					
	1 R Y G	2 R Y G	3 (1) - (R) (1) - (R) (1) - (R) (1) - (R)	4 R QY-) Y QG-) G	5 R Y G	6 R Y G	7 R Y G	8 R Y G	9 R Y G	10 R Y G	11 R Y G	12	13	14	15	
PHASE 2+5	R	R	√ -G—	<-G—	G	R	R	R	R	R	R	DW	DW	DW	DW	
5 CHANGE	R	R	<-Y-	<-Y-	G	R	R	R	R	R	R	DW	DW	DW	DW	1
PHASE 2+6	G	G	G	G	G	R	R	R	R	R	R	DW	DW	DW	DW	
2+6 CHANGE	Υ	Y	Y	Υ	Y	R	R	R	R	R	R	DW	DW	DW	DW	>
PHASE 2+6 ALT	G	G	G	G	G	R	R	R	R	R	R	WK	WK	DW	DW	• · · · •
PED CLEARANCE	G	G	G	G	G	R	R	R	R	R	R	FL/DW	FL/DW	DW	DW	
2+6 CHANGE	Υ	Y	Υ	Υ	Y	R	R	R	R	R	R	DW	DW	DW	DW	1>
PHASE 4+8	R	R	R	R	R	G	G	G	G	G	G	DW	DW	DW	DW	1 7
4+8 CHANGE	R	R	R	R	R	Υ	Υ	Y	Y	Υ	Y	DW	DW	DW	DW	
PHASE 4+8 ALT	R	R	R	R	R	G	G	G	G	G	G	DW	DW	WK	WK	I ↓
PED CLEARANCE	R	R	R	R	R	G	G	G	G	G	G	DW	DW	FL/DW	FL/DW	
4+8 CHANGE	R	R	R	R	R	Υ	Υ	Y	Y	Y	Y	DW	DW	DW	DW	V I
FLASHING OPERATION	FL/Y	FL/Y	FL/Y	FL/Y	FL/Y	FL/R	FL/R	FL/R	FL/R	FL/R	FL/R	DARK	DARK	DARK	DARK	





MD 115 (MUNCASTER MILL ROAD) IS ASSUMED TO RUN IN AN EAST-WEST DIRECTION

<u>KEY</u>

5 CONDUCTOR ELECTRICAL CABLE (NO. 14 AWG)

2 CONDUCTOR ELECTRICAL CABLE (NO. 14 AWG)

1 CONDUCTOR (NO. 6 AWG) STRANDED COPPER GROUND WIRE

CONTACTS

DISTRICT 3 DEREK GUNN DISTRICT ENGINEER PHONE: (301) 513-7498

ASSISTANT DISTRICT ENGINEER - TRAFFIC (MO. CO) PHONE: (301) 513-7313

ASSISTANT DISTRICT ENGINEER - UTILITIES PHONE: (301) 513-7350

JOHN GOVER ASSISTANT DISTRICT ENGINEER - CONSTRUCTION PHONE: (301) 513-7336

GREGORY EDWARDS ASSISTANT DISTRICT ENGINEER - MAINTENANCE (MO. CO) PHONE: (301) 513-7304

OFFICE OF TRAFFIC AND SAFETY KIMON JOHNSON DIVISION CHIEF. TRAFFIC OPERATIONS DIVISION PHONE: (410) 787-7630

MR. ANTOINE YATES ASSISTANT DIVISION CHIEF. (SIGNAL SHOP/ TCDIS) PHONE: (410) 787-7645

MR. DAVID (TODD) JONES SIGN SHOP MANAGER PHONE: (410) 787-7674

MR. MICHAEL BASSO SIGNAL OPERATIONS SECTION CHIEF PHONE: (410) 365-7258

MR. MICHAEL BOYLE SECTION CHIEF. INVENTORY (SIGNAL SHOP WAREHOUSE) PHONE: (410) 787-7673



OFFICE OF TRAFFIC AND SAFETY TRAFFIC OPERATIONS DIVISION

MD 115 (MUNCASTER MILL ROAD) AND NEEDWOOD ROAD

ROCKVILLE, MARYLAND

SHEET NO. 261 OF 2

GENERAL INFORMATION PLAN

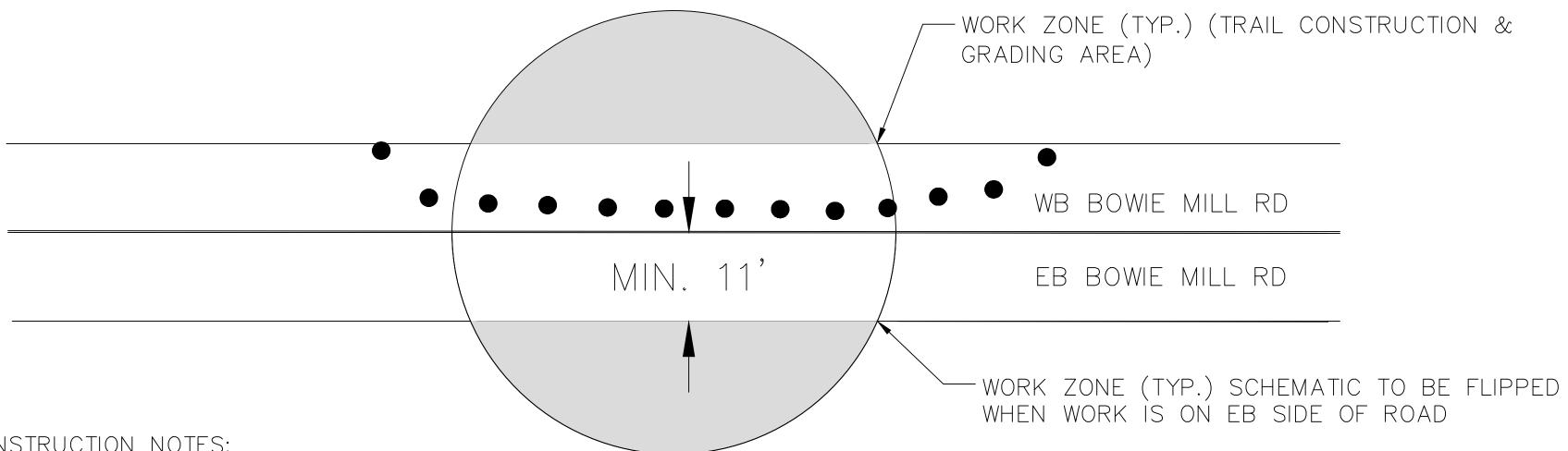
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AWN BY	CJS	LOGMILE	15011502.84	
ECKED BY	DJD	TIMS NO	N148	
E/PRD		TOD NO		

TS NO. 4757 B DRAWING **SG** - **01** OF 02

PLOTTED: \$DATETIME\$

MAINTENANCE OF TRAFFIC NOTES:

- 1. ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE TEMPORARY TRAFFIC CONTROL APPLICATIONS IN MARYLAND BOOK OF STANDARDS. THE 2011 MD MUTCD AND SUBSEQUENT REVISIONS ADOPTED BY THE STATE OF MARYLAND, THESE PLANS, AND OTHER CONTRACT DOCUMENTS.
- 2. THE CONTRACTOR SHALL FURNISH, INSTALL, AND MAINTAIN TRAFFIC CONTROL SIGNS AND DEVICES. THE CONTRACTOR SHALL MAINTAIN TRAFFIC DURING HOURS OF CONSTRUCTION IN ACCORDANCE WITH THE METHOD OF TRAFFIC CONTROL SHOWN ON THESE DRAWINGS, OTHER CONTRACT DOCUMENTS, AND THE 2011 MD MUTCD AND SUBSEQUENT REVISIONS.
- 3. ALL TEMPORARY SIGNS FOR MAINTENANCE OF TRAFFIC SHALL BE PER MONTGOMERY COUNTY STANDARD TCP-100.01 AND SECTION 4.0 SIGNS OF THE MDSHA GENERAL NOTES FOR TEMPORARY TRAFFIC CONTROL TYPICAL APPLICATIONS (TTCTA) AS SHOWN ON ON MDSHA STD DETAIL 104.00-06 TO MDSHA STD 104.00-08. SIGN SHALL BE MOUNTED PER SECTION 4.0 OF THE TTCTA AND AS SHOWN ON MDSHA STD 104.01-17A TO MDSHA STD 104.01-17D OR AS OTHERWISE SHOWN ON THESE PLANS OR AS DIRECTION BY THE ENGINEER.
- 4. NO WORK IS TO BEGIN UNTIL ALL ADVANCE WARNING SIGNS, DRUMS, BARRIER, AND PAVEMENT MARKINGS ARE IN PLACE AND OPERATIONAL, AS APPROVED BY THE ENGINEER.
- 5. CONSTRUCTION WARNING SIGNS ABOUT SPECIFIC AREAS AND TYPE OF CONSTRUCTION WILL BE PLACED AS DIRECTED BY THE ENGINEER.
- 6. ALL EXISTING SIGNS AND PAVEMENT MARKINGS SHALL BE MAINTAINED THROUGHOUT THE DIRECTION OF CONSTRUCTION UNLESS A CHANGE IS SHOWN ON THE PLAN AN/OR AS DIRECTED BY THE ENGINEER.
- 7. UNLESS OTHERWISE SHOWN ON THE PLANS, ACCESS SHALL BE PROVIDED TO ALL DRIVEWAYS AND CROSS STREETS AT ALL TIMES.
- 8. FLAGGERS SHALL BE MARYLAND STATE HIGHWAY ADMINISTRATION OR AATSA APPROVED FLAGGERS AND SHALL BE USED AT THE DIRECTION OF THE MONTGOMERY COUNTY INSPECTOR.
- 9. RADIO COMMUNICATION SHALL BE REQUIRED BETWEEN FLAGGERS AT THE DISCRETION OF THE MONTGOMERY COUNTY INSPECTOR OR IF THE FLAGGERS CANNOT SEE EACH OTHER AND/OR THE LANE CLOSURE EXCEEDS 200 FEET.
- 10. THE CONTRACTOR SHALL CONTACT MONTGOMERY COUNTY TMC AT 240-777-2100, 72 HOURS PRIOR TO STARTING ALL WORK.
- 11. ROADWAY TO BE OPEN TO 2-WAY TRAFFIC (NORMAL CONDITIONS) AT END OF WORK DAY. DRUMS SHALL PROTECT THE WORK ZONE DURING NON-WORK HOURS AND SHALL BE RESET ACCORDING TO THE STANDARDS LISTED IN THE SEQUENCE OF CONSTRUCTION NOTED ON THIS PLAN DURING WORK HOURS.
- 12. DRUMS SHALL PROTECT THE WORK ZONE DURING NON-WORK HOURS AND SHALL BE RESET ACCORDING TO THE STANDARDS LISTED IN THE SEQUENCE OF CONSTRUCTION NOTED ON THIS PLAN DURING WORK HOURS.



SEQUENCE OF CONSTRUCTION NOTES:

- 1. ESTABLISH ALL NECESSARY SEDIMENT AND EROSION CONTROL MEASURES AND ALL MOT SIGNS AND EQUIPMENT ARE IN PLACE.
- 2. CONSTRUCT TRAIL AND CURB WORK ON MD 115 FOLLOWING MOT SET UPS AS SHOWN. CONSTRUCTION AND MOT SETUP ON STATE ROAD TO BE COMPLETED BEFORE MOVING TO COUNTY ROAD TO LIMIT IMPACT TO STATE ROAD TRAFFIC.
- 3. CONSTRUCT ASPHALT TRAIL AND DRIVEWAY MODIFICATIONS ALONG BOWIE MILL ROAD BY STEPPING FLAGGING OPERATION ALONG CORRIDOR AS SHOWN ON PLANS.
- 4. CONSTRUCT TRAIL AND CURB WORK ON MD 108 FOLLOWING MOT SET UPS AS SHOWN. MOT SETUP ON STATE ROAD TO BE REMOVED IMMEDIATELY FOLLOWING COMPLETION OF CONSTRUCTION TO LIMIT IMPACT TO STATE ROAD TRAFFIC.
- 5. STABILIZE AND CLEAN ALL CONSTRUCTION AREAS.

PEDESTRIAN MAINTENANCE OF TRAFFIC NOTES:

- 1. ESTABLISH ALL NECESSARY PEDESTRIAN MAINTENANCE OF TRAFFIC ACCESS AND SIGNAGE PRIOR TO BEGINNING CONSTRUCTION IN EACH WORK AREA.
- 2. ENSURE THAT A SAFE ROUTE FOR PEDESTRIANS IS AVAILABLE AT ALL TIMES DURING CONSTRUCTION.
- 3. KEEP ANY EXISTING PEDESTRIAN FACILITIES CLEAN AND ACCESSIBLE THROUGHOUT CONSTRUCTION WITH THE EXCEPTION OF WHEN THE PARTICULAR AREA IS BEING ALTERED AS SHOWN ON THE PLANS.

<u>DETOUR NOTES:</u>

1. NOTIFY APPROPRIATE AGENCIES:

- MONTGOMERY COUNTY SCHOOL DEPARTMENT OF TRANSPORTATION 240-740-6200 301-279-8000 - MONTGOMERY COUNTY POLICE DEPARTMENT - MONTGOMERY COUNTY DIVISION OF HIGHWAY SERVICES 240-777-7623 - MONTGOMERY COUNTY DIVISION OF TRANSPORTATION ENGINEERING 240-777-7220 - MARYLAND STATE POLICE 410-486-3101 - THE SHA RESIDENT MAINTENANCE ENGINEER 301-513-7304 - THE SHA, DISTRICT 3, TRAFFIC DIVISION 301-513-7300

- THE SHA OFFICE OF COMMUNICATIONS

THE FOLLOWING AGENCIES MUST BE NOTIFIED 2 HOURS PRIOR TO ROAD CLOSURE AND IMMEDIATELY AFTER THE ROADWAY IS REOPENED.

- STATEWIDE OPERATIONS CENTER

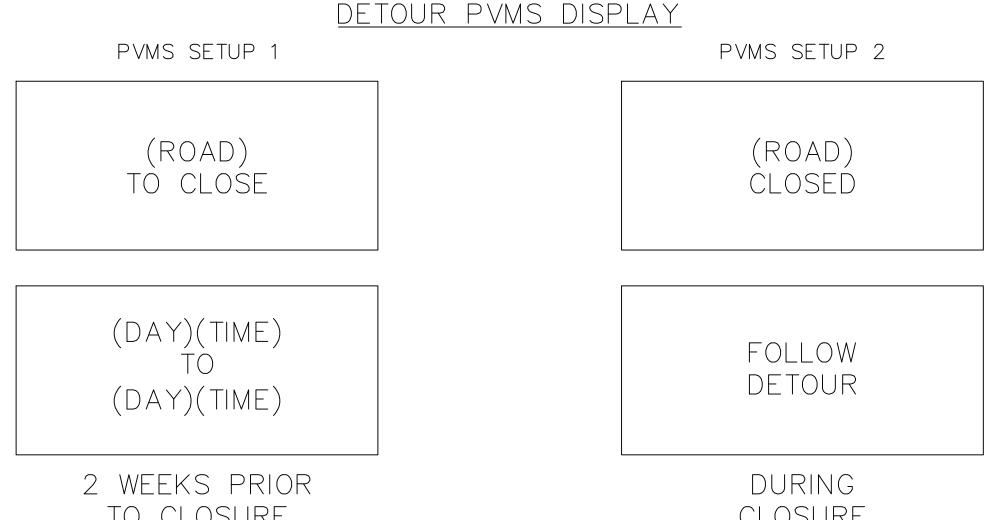
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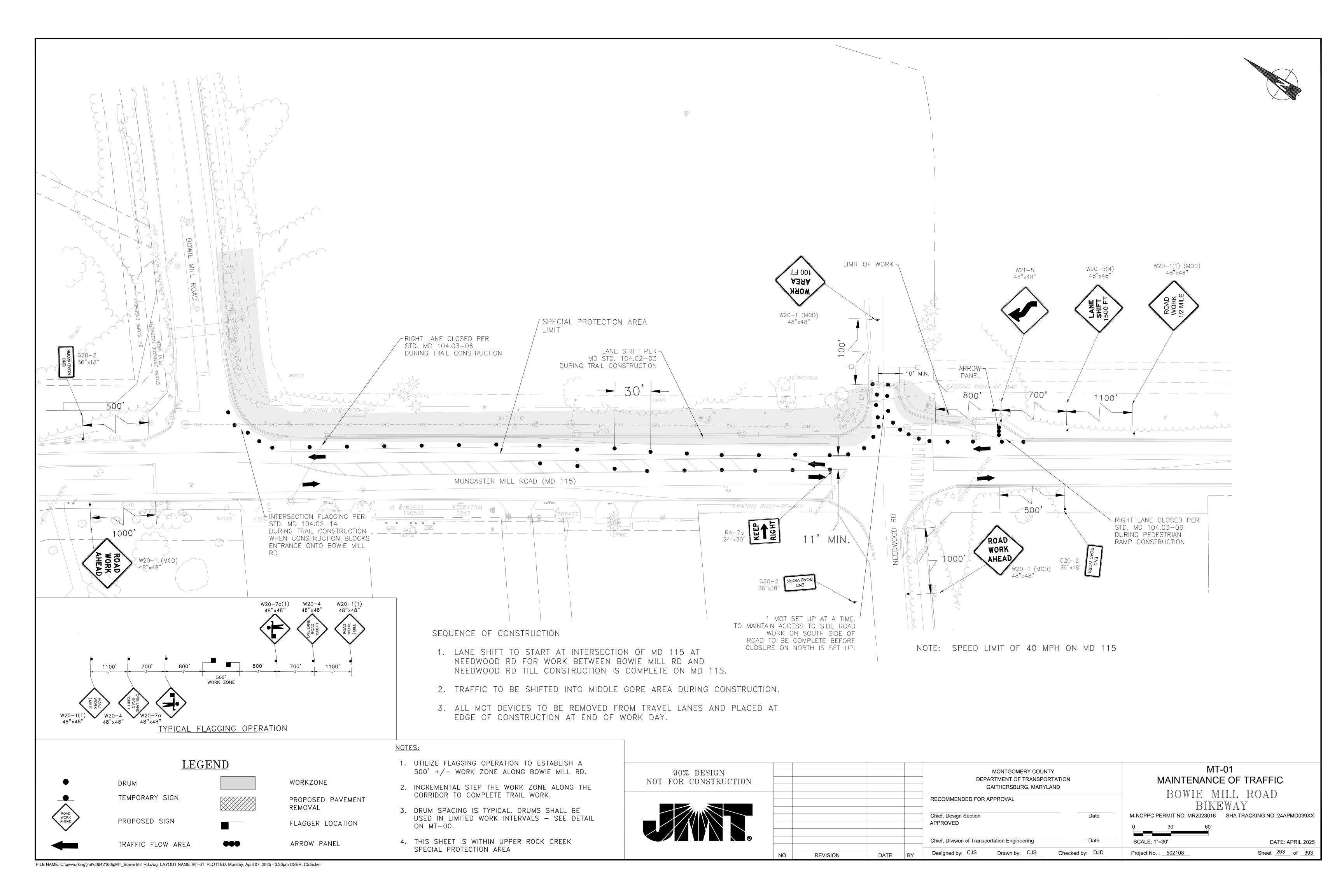
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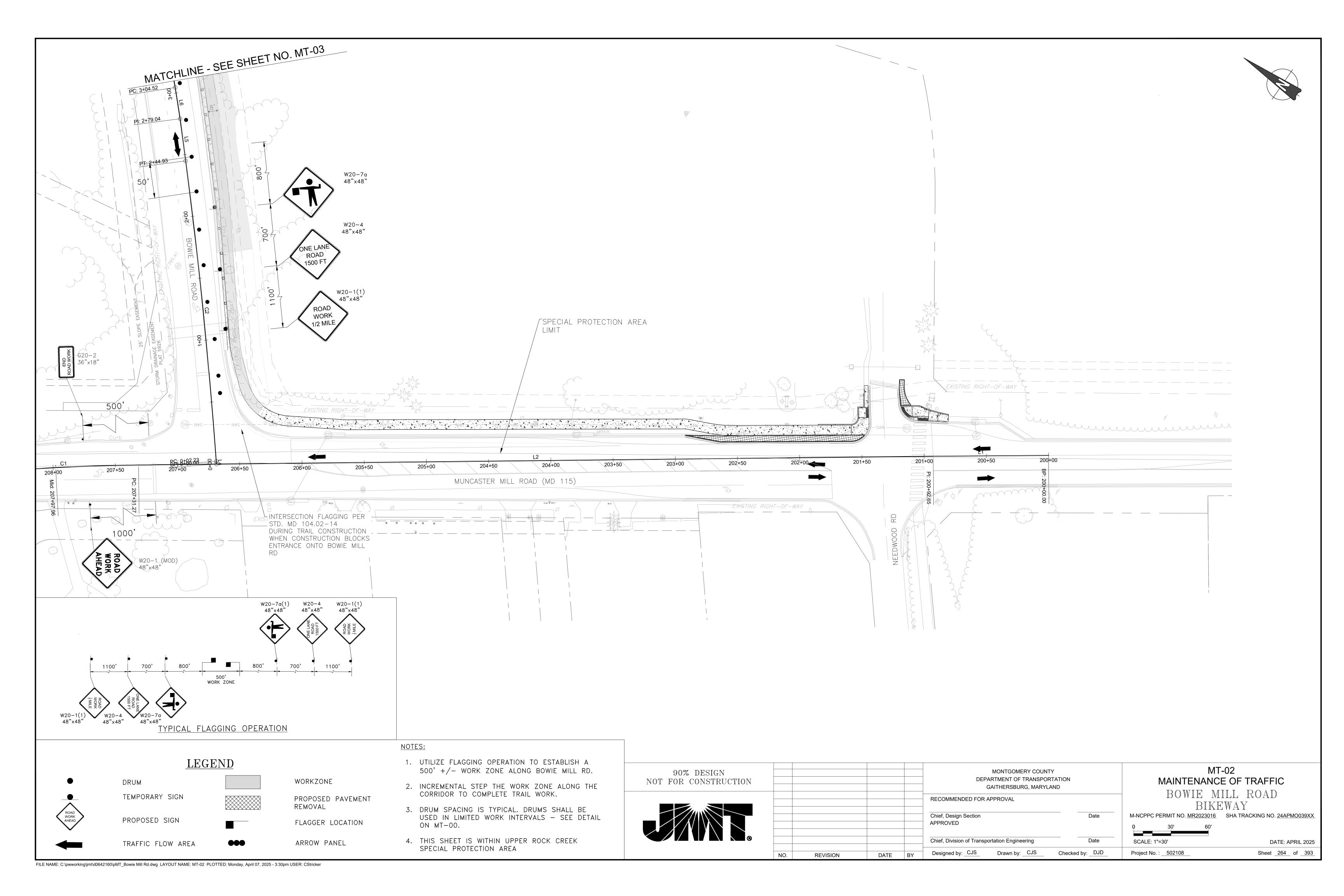
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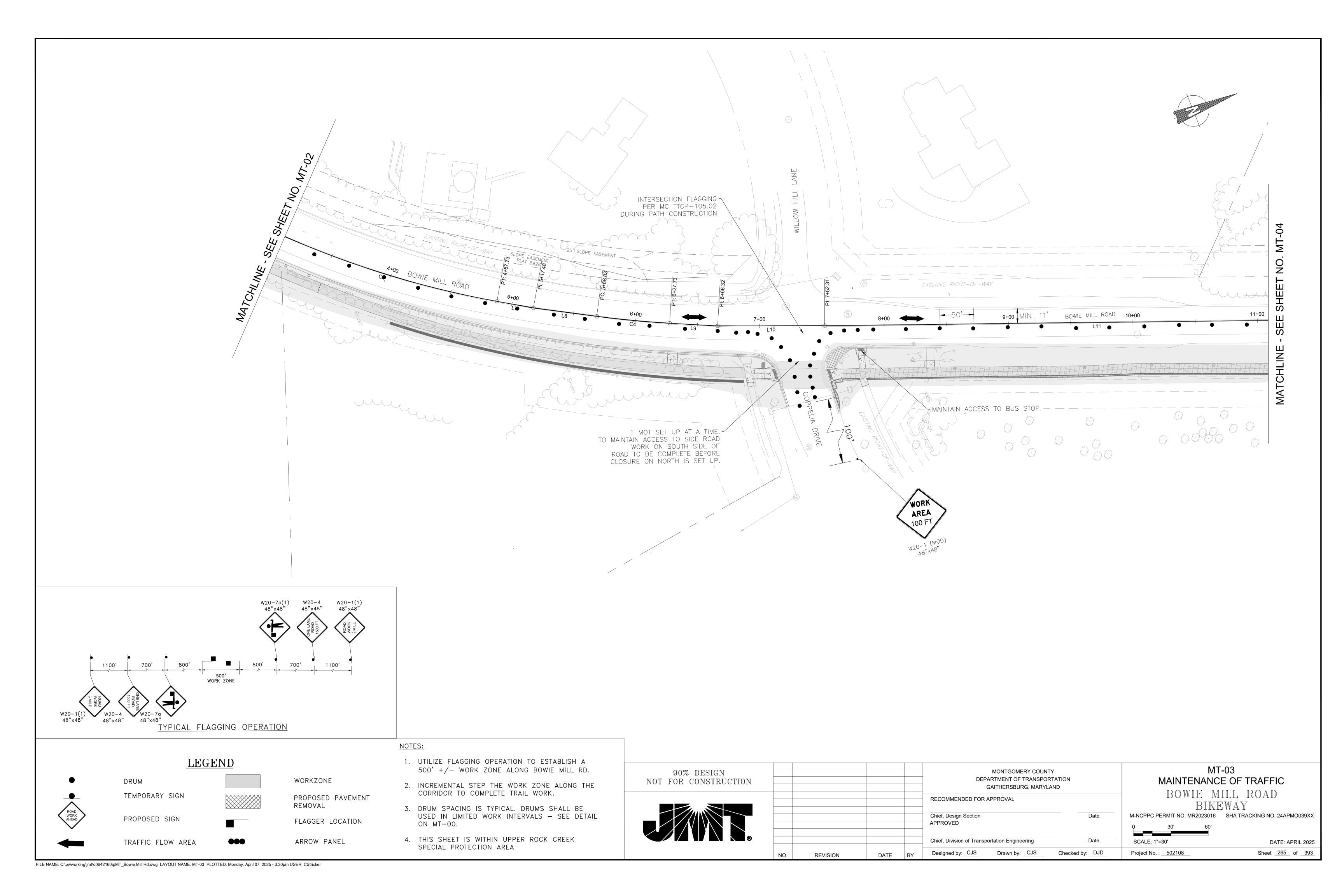
- 2. PLACE PORTABLE VARIABLE MESSAGE SIGNS 2 WEEKS PRIOR TO THE ROAD CLOSURE TO NOTIFY THE TRAVELING PUBLIC ABOUT THE UPCOMING ROAD CLOSURE.
- 3. INSTALL ALL ADVANCED WARNING AND DETOUR SIGNS AS SHOWN IN THE PLANS. SIGNS SHALL BE FULLY COVERED WITH AN OPAQUE BLACK MATERIAL UNTIL SUCH TIME THAT THE CLOSURE AND DETOUR ARE IN EFFECT.
- 4. IMMEDIATELY PRIOR TO THE ROAD CLOSURE, UNCOVER ADVANCED WARNING AND DETOUR SIGNS AND CLOSE ROAD.
- 5. PERFORM WORK AS SHOWN ON THE PLANS
- 6. AT THE END OF ROAD CLOSURE AND CONSTRUCTION, REMOVE ALL REMAINING WARNING, DETOUR AND INFORMATIONAL SIGNS.
- 7. PVMS PLACEMENT TO BE DETERMINED AND APPROVED BY ONSITE ENGINEER.

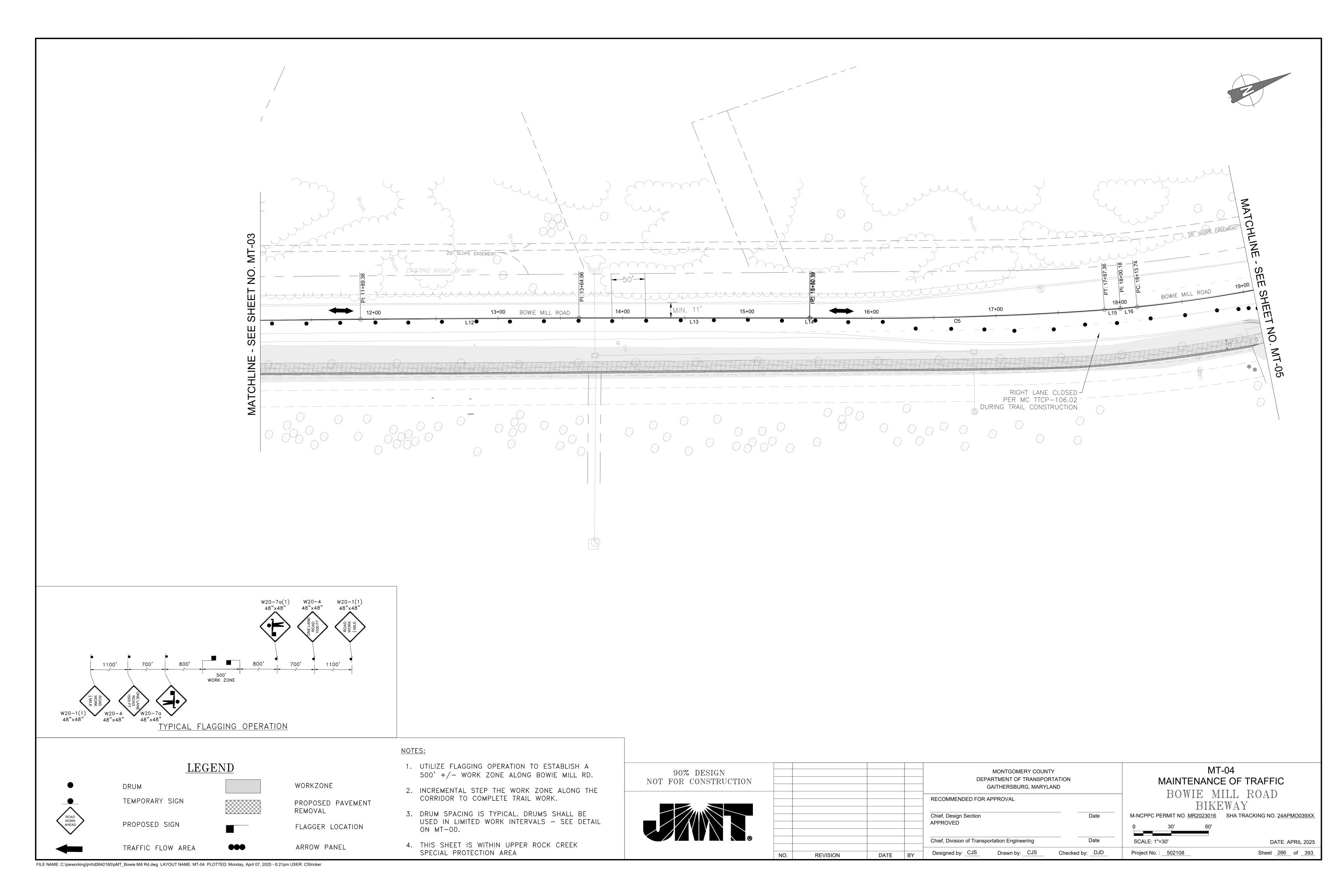


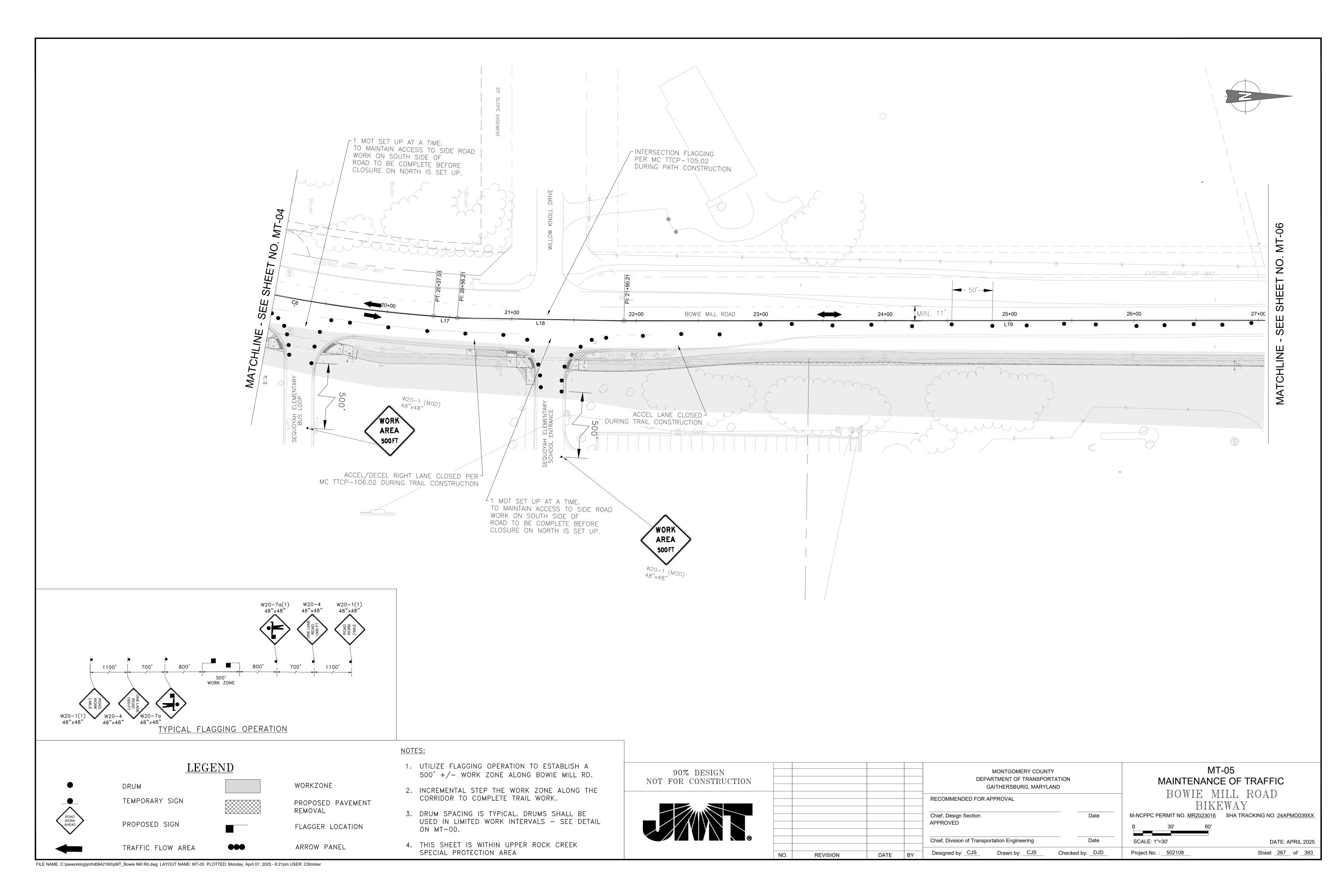
TO CLOSURE CLOSURE MT-00 MONTGOMERY COUNTY 90% DESIGN **DEPARTMENT OF TRANSPORTATION** MAINTENANCE OF TRAFFIC NOTES NOT FOR CONSTRUCTION BOWIE MILL ROAD RECOMMENDED FOR APPROVAL BIKEWAY Chief, Design Section SHA TRACKING NO. 24APMO039XX Chief, Division of Transportation Engineering SCALE: 1"=30' Designed by: CJS Drawn by: CJS Checked by: DJD Project No. : 502108 DATE BY REVISION

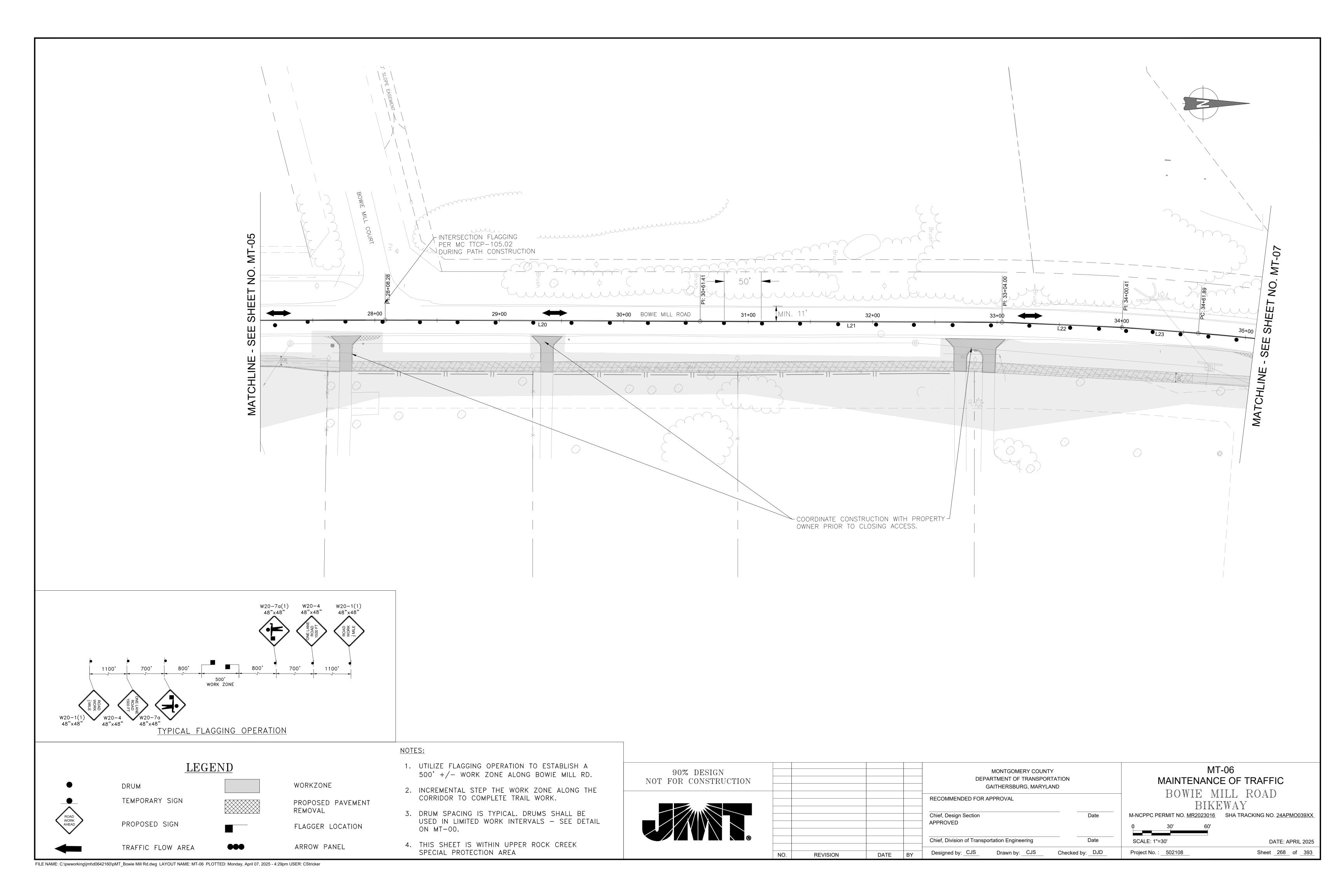


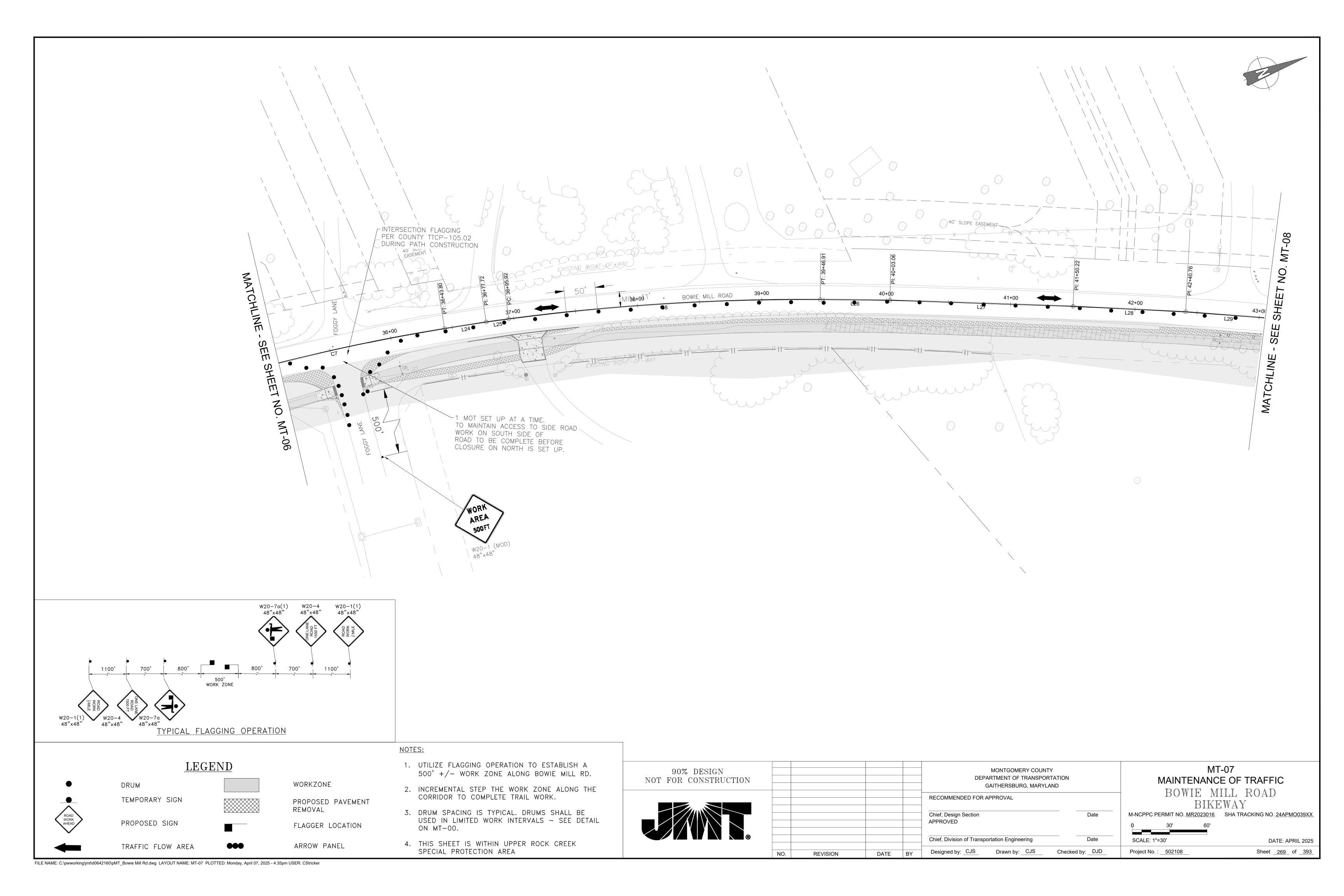


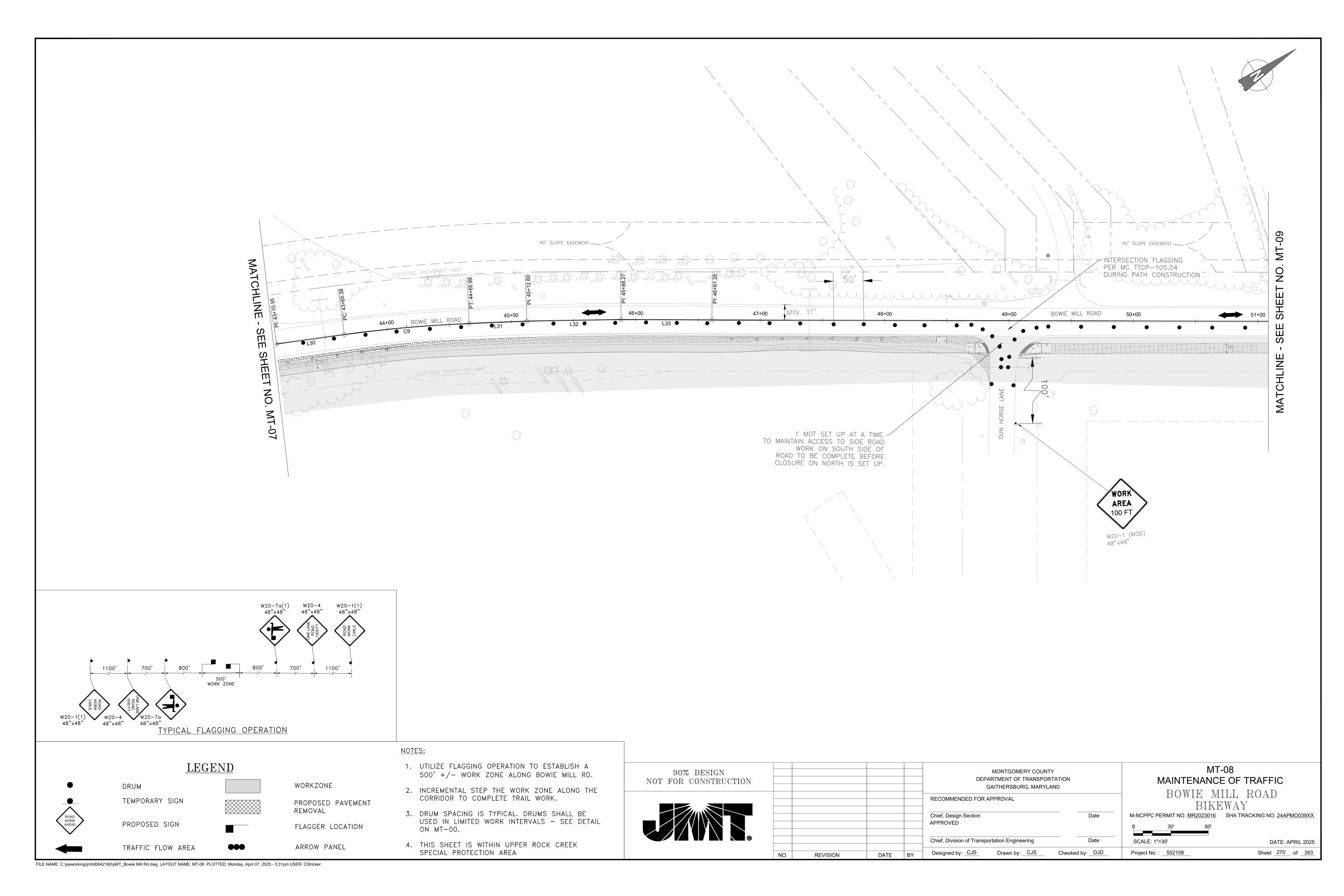


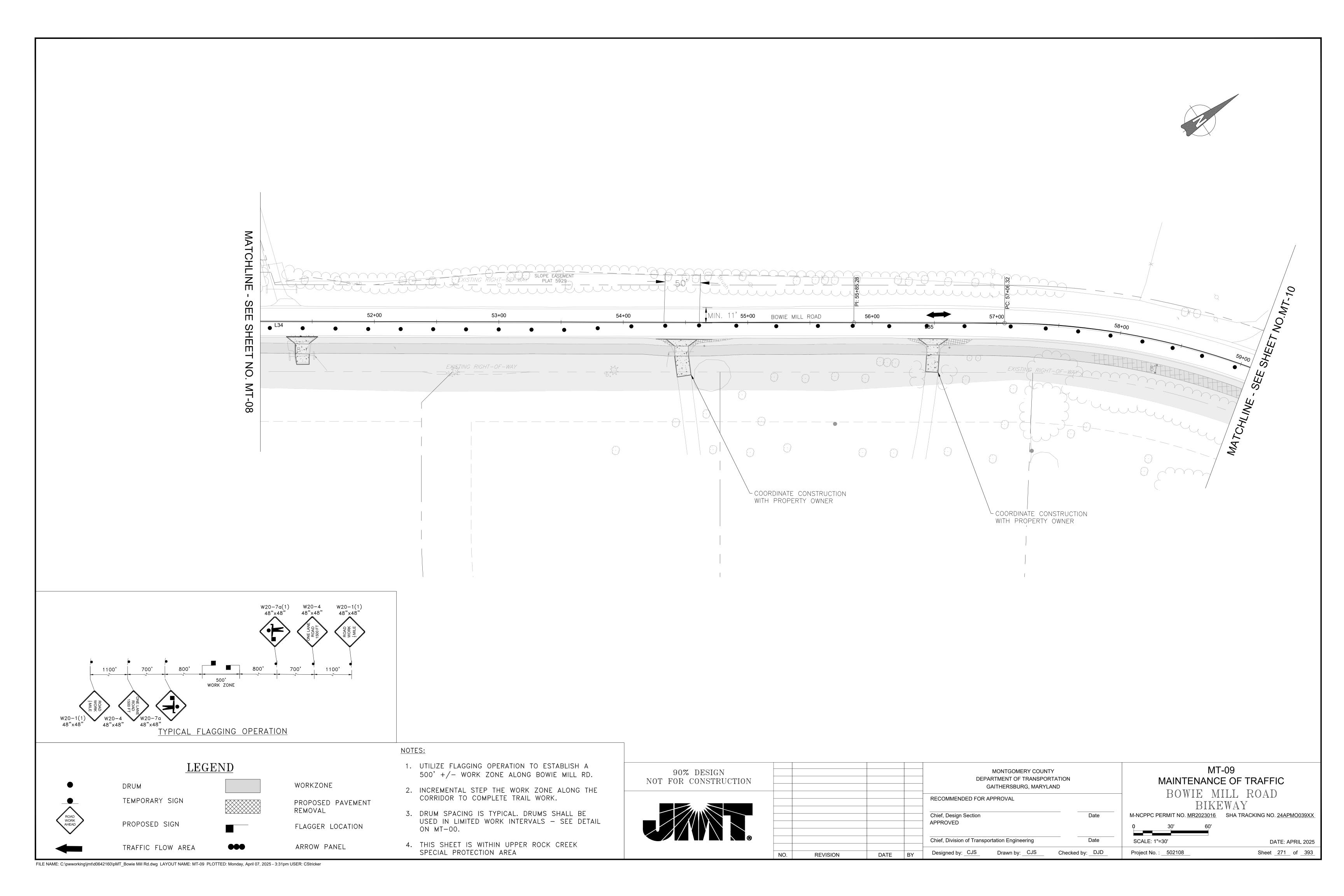


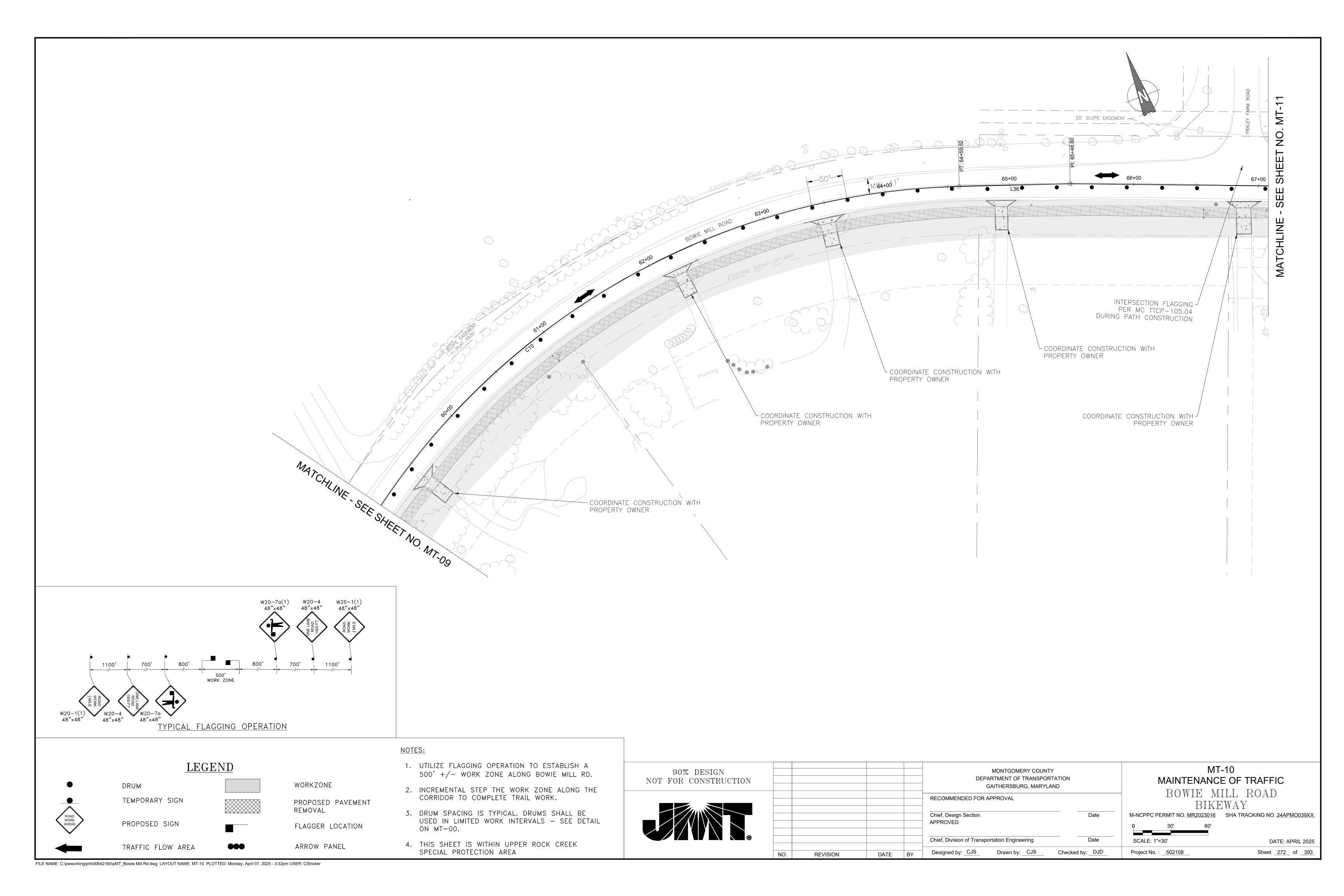


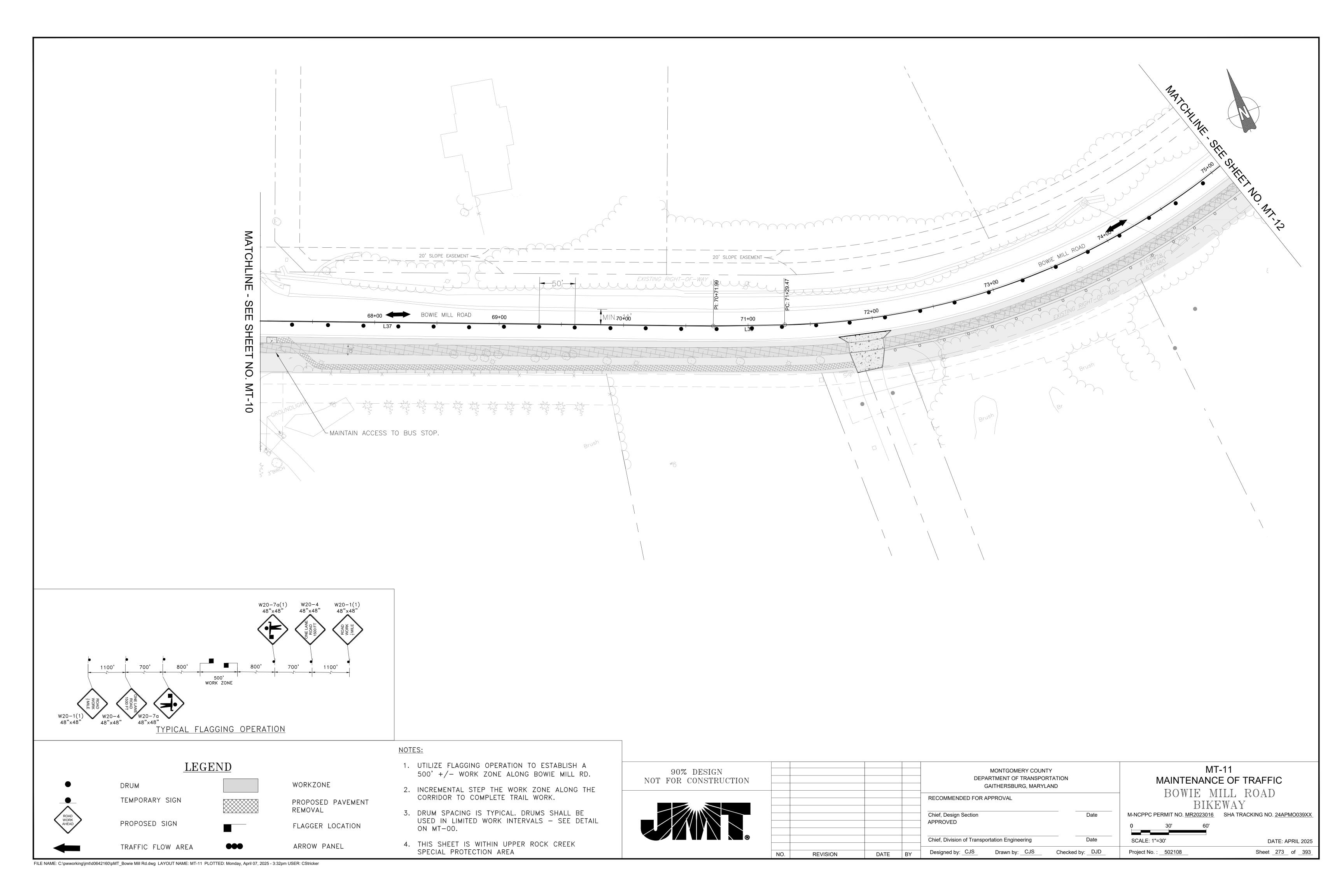


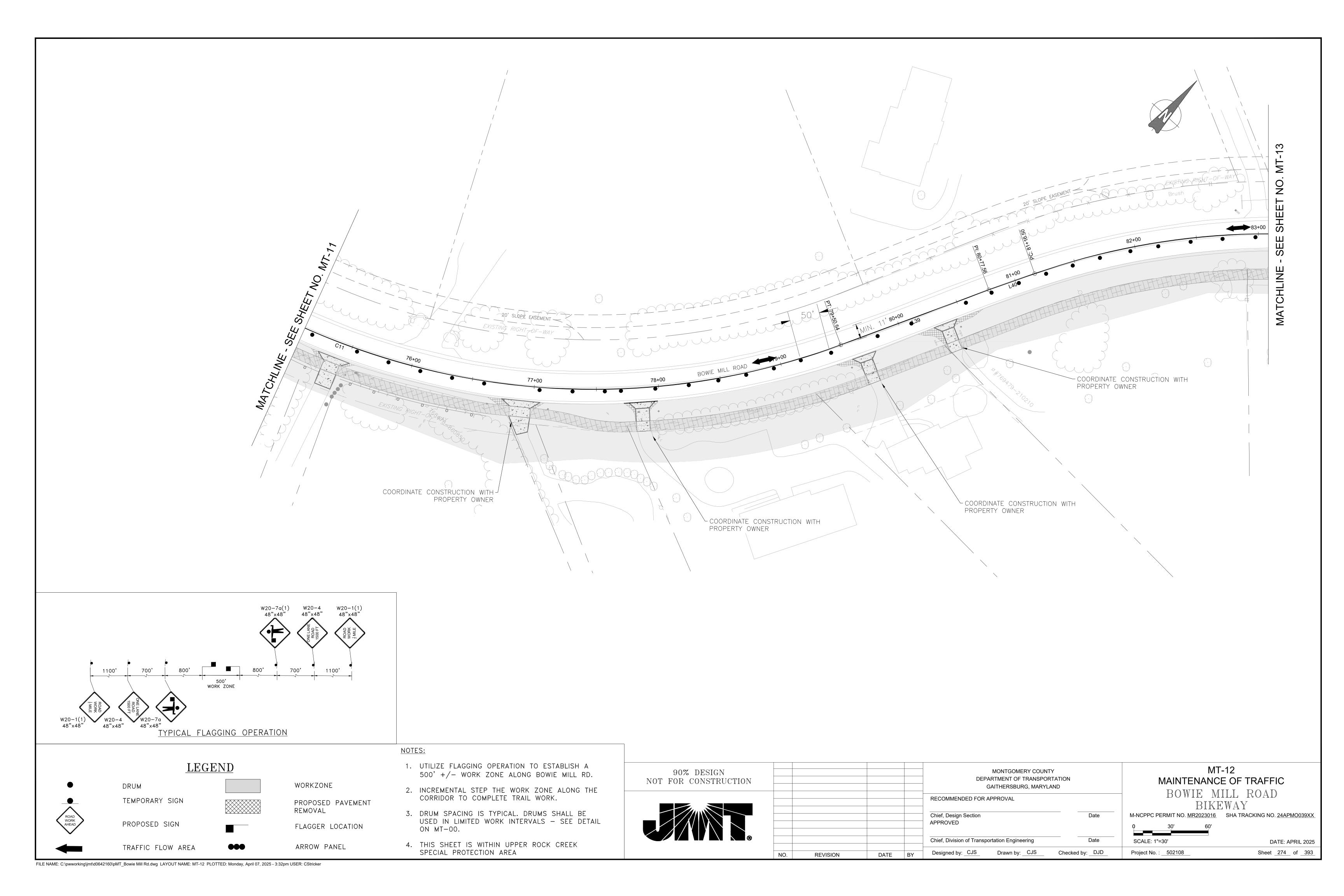


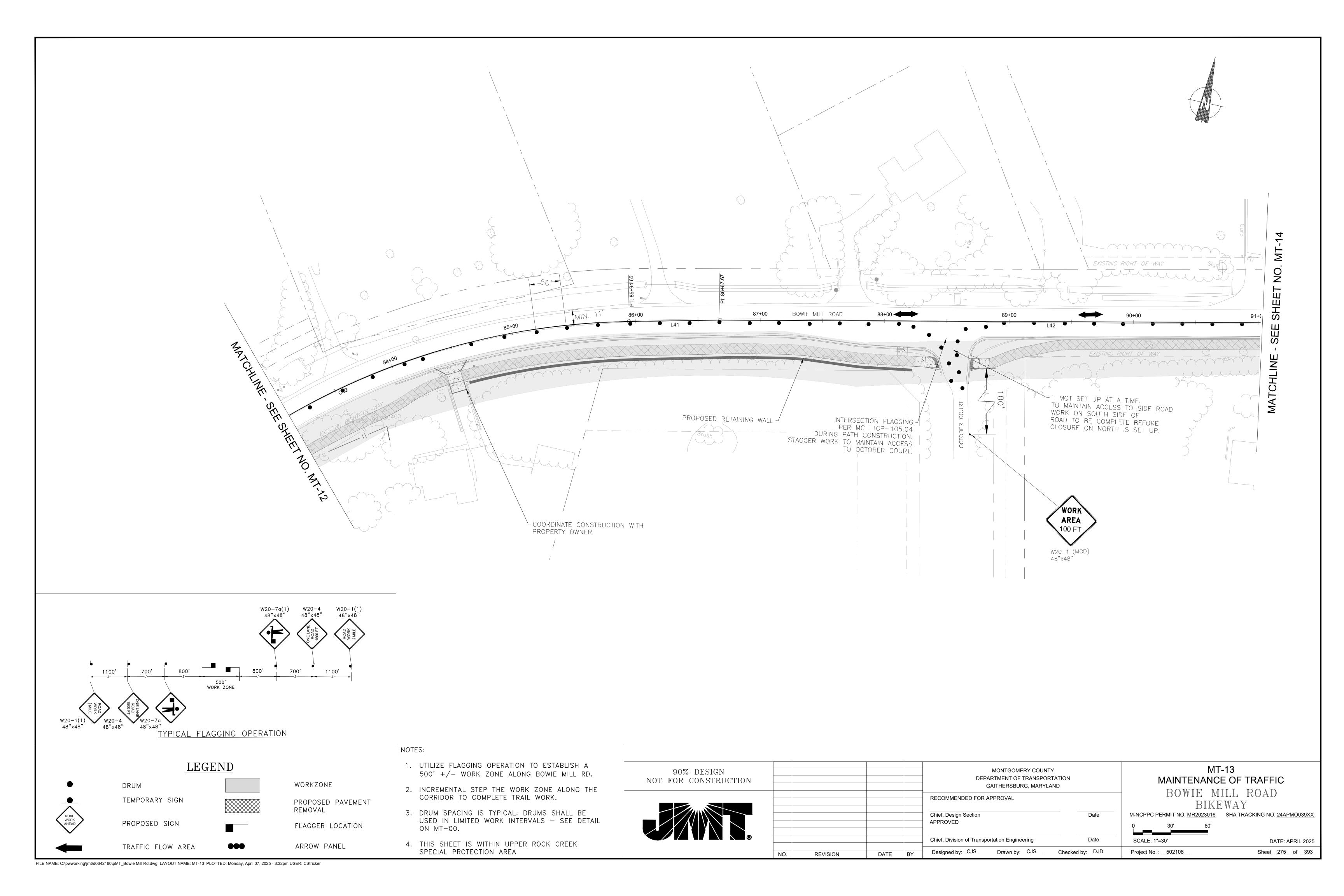


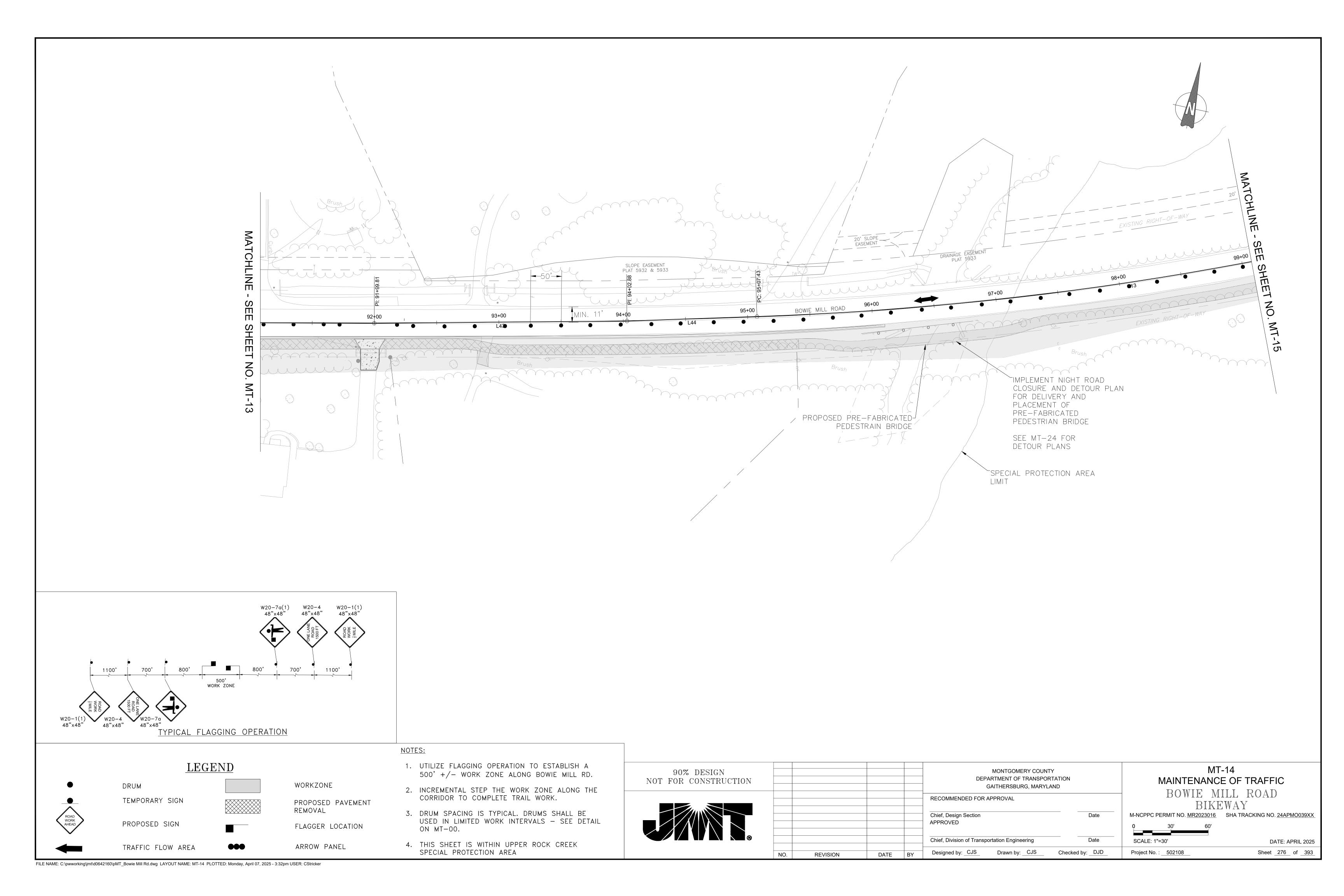


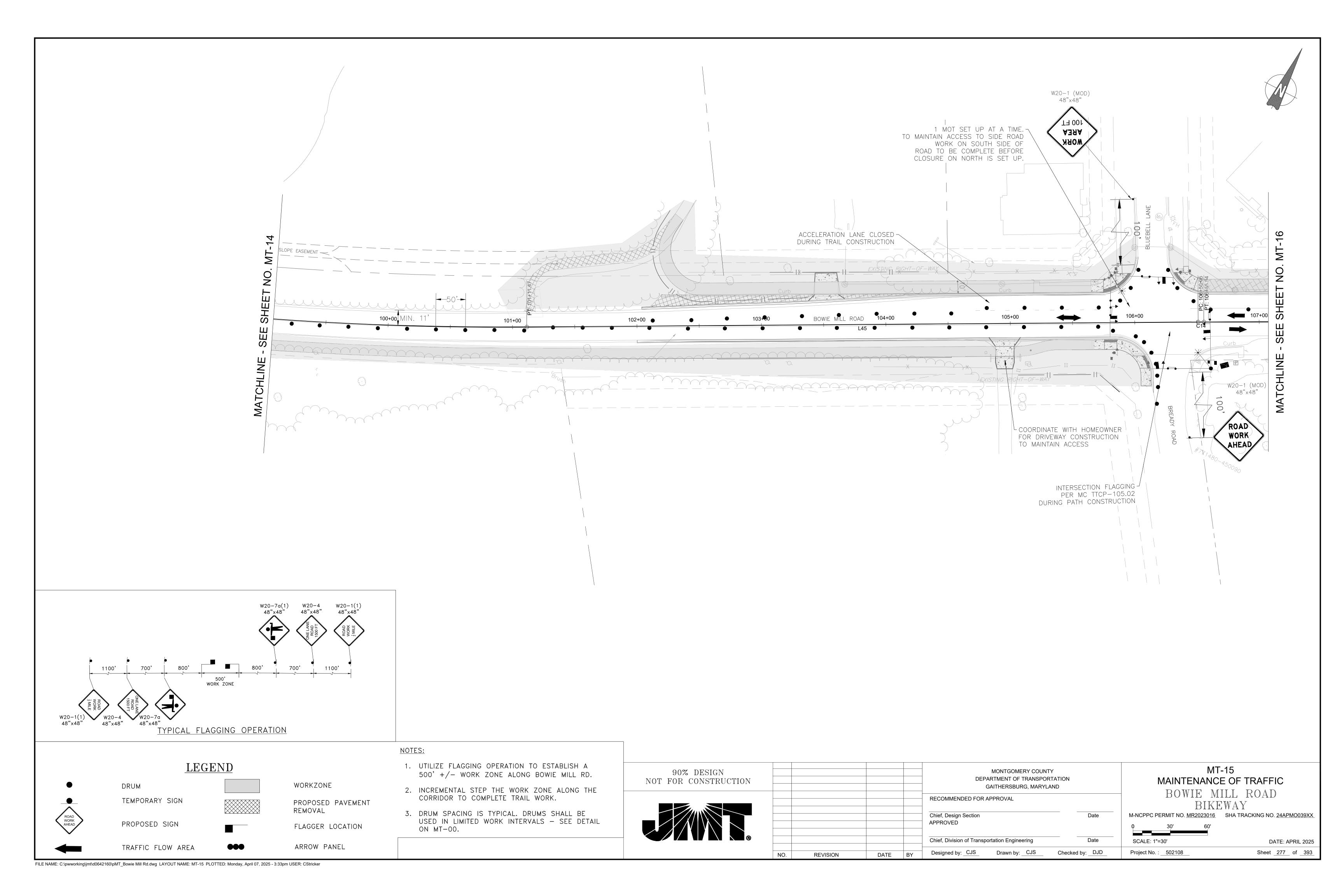


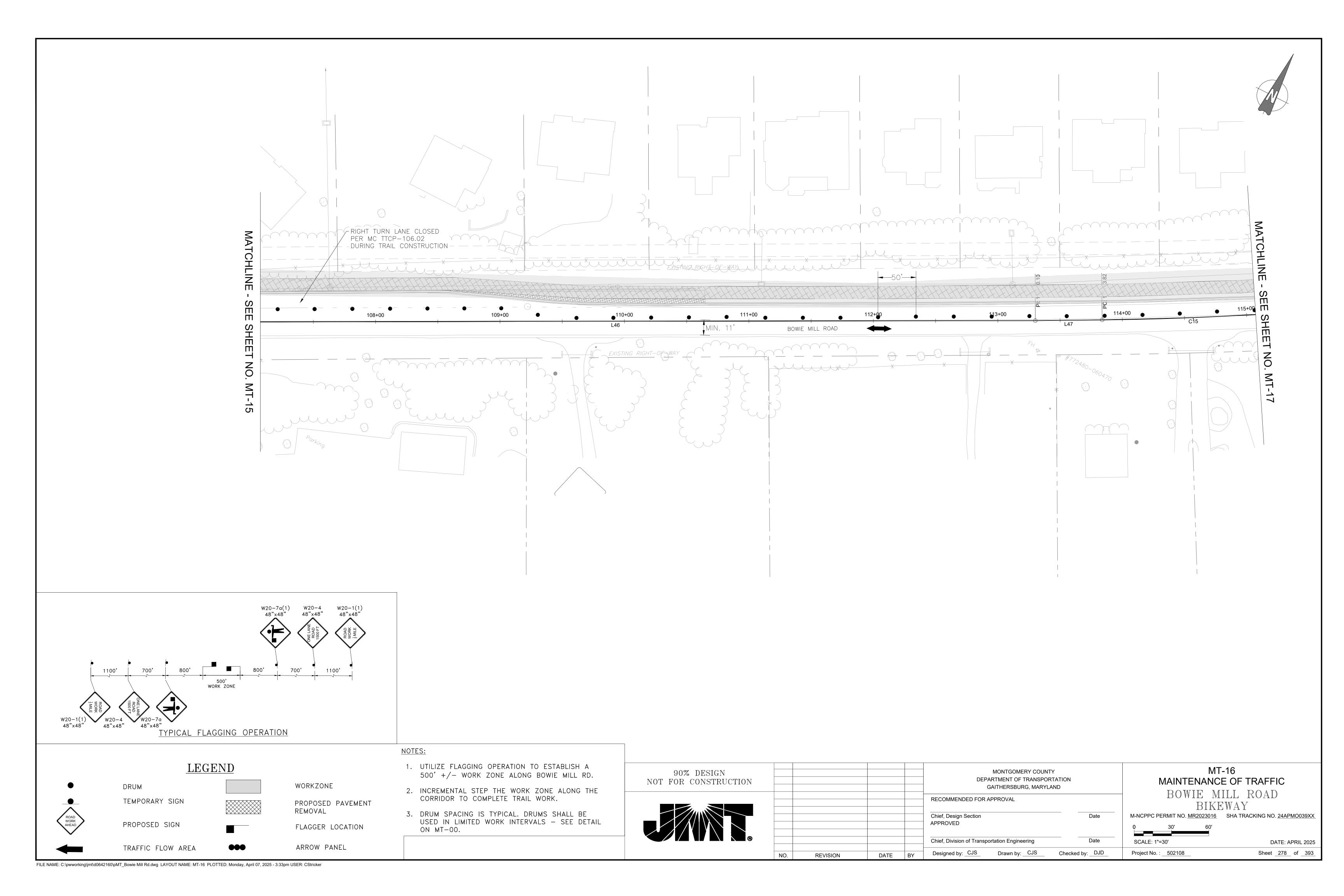


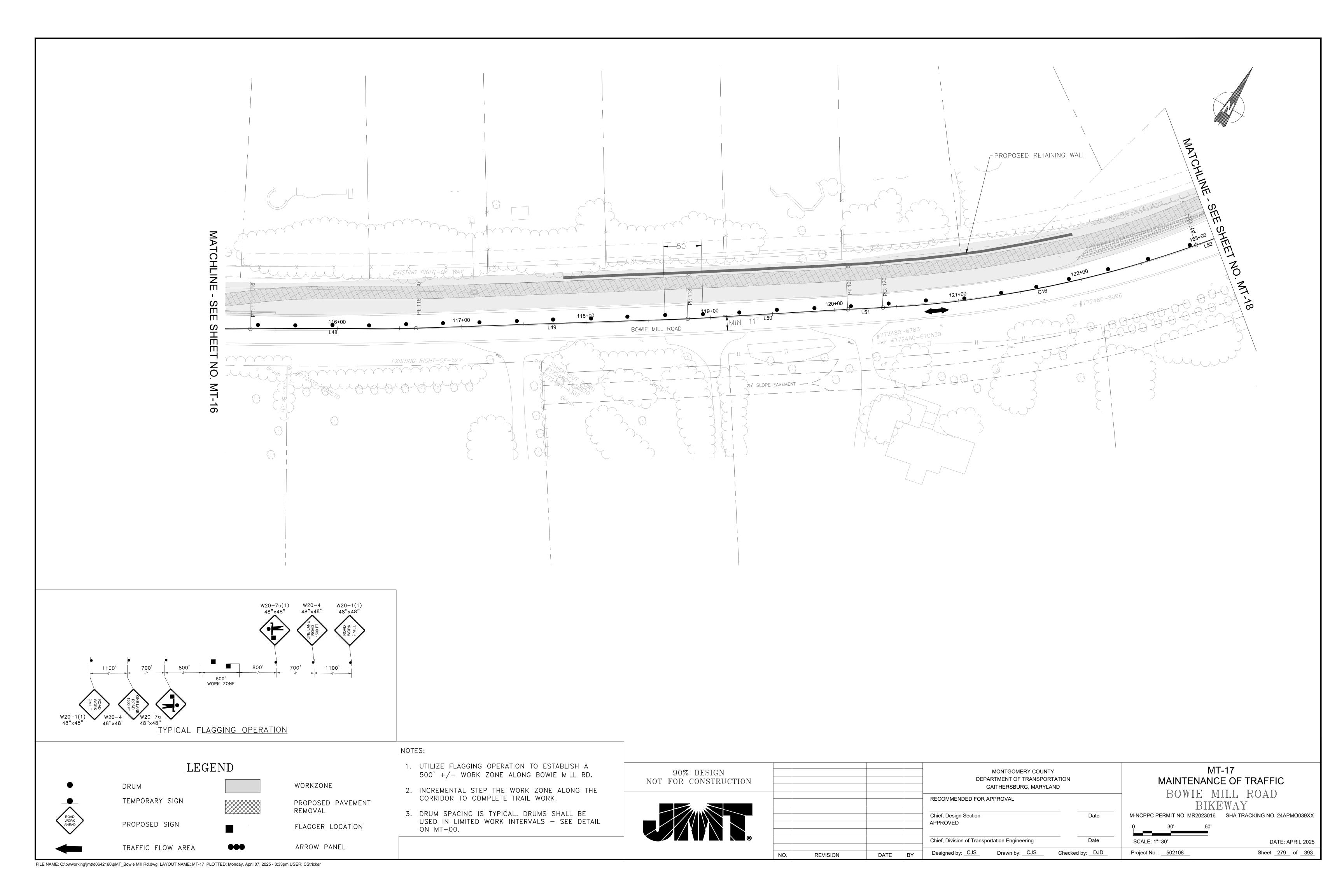


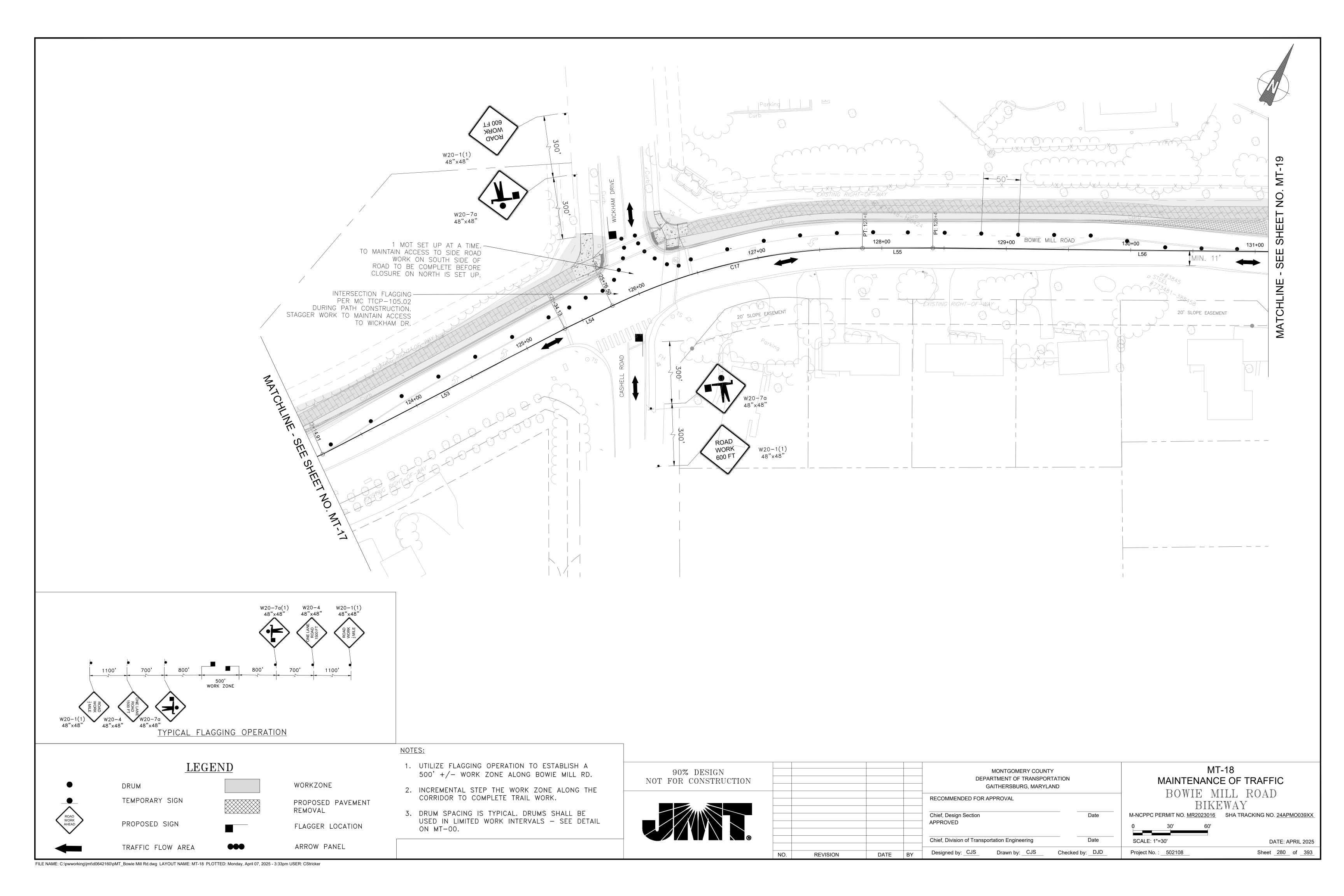


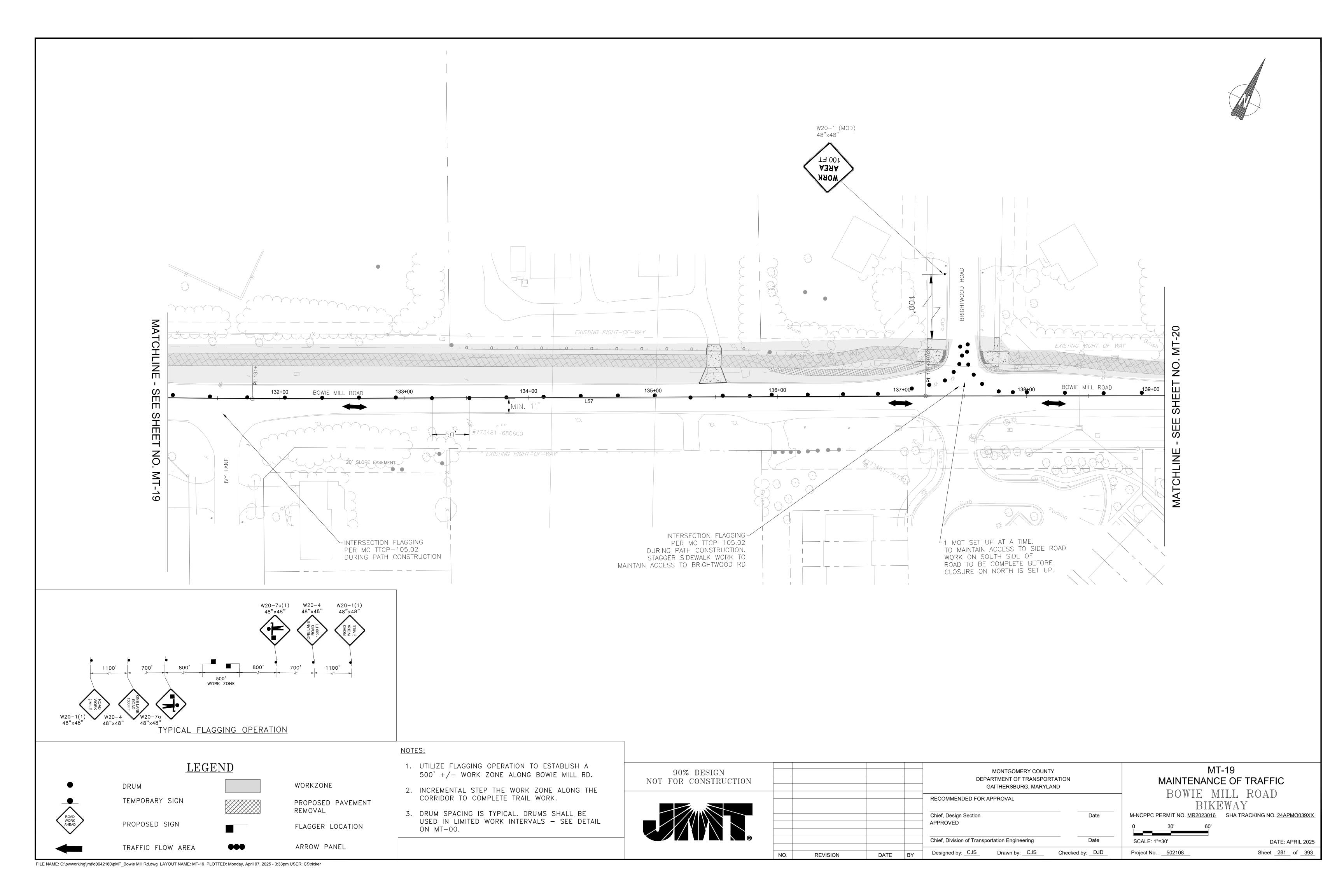


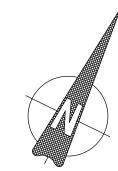


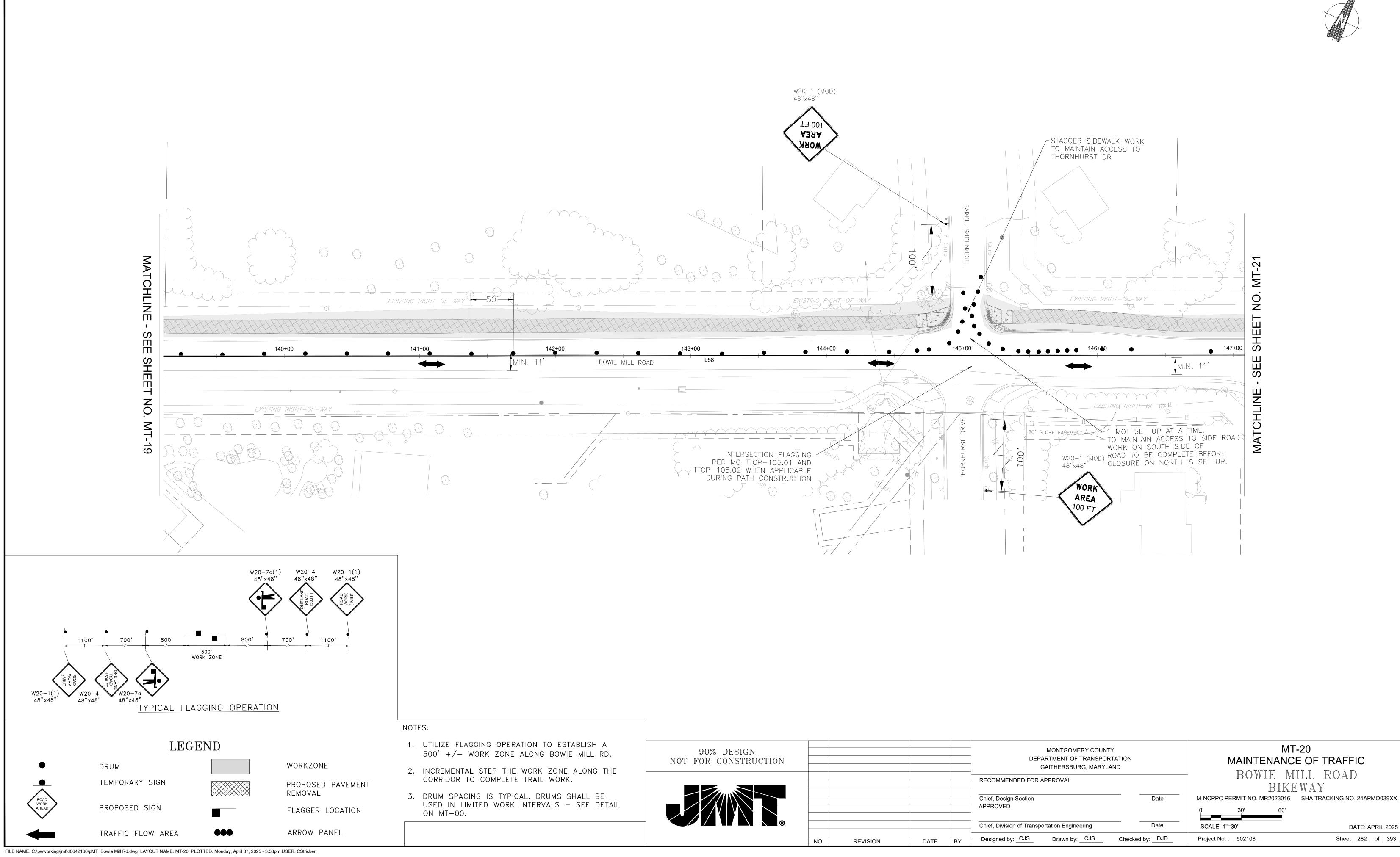


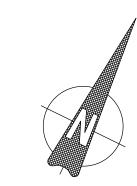


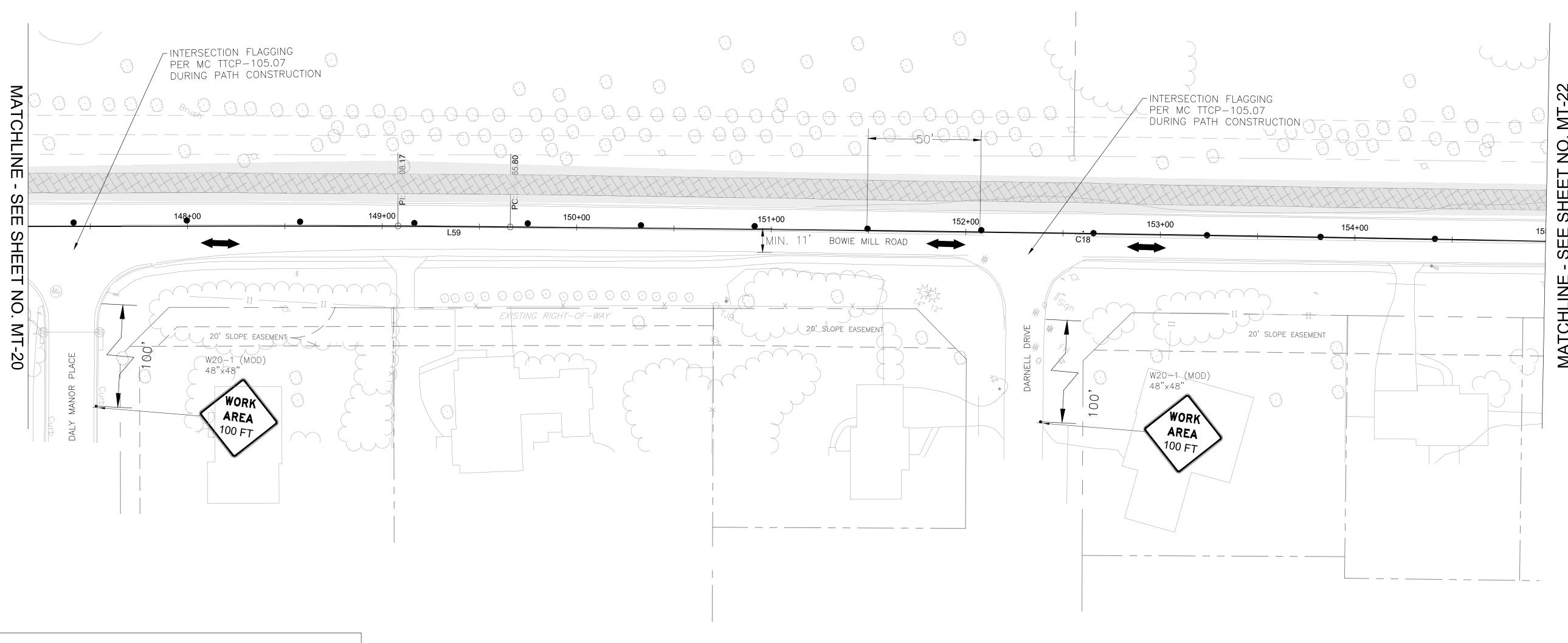


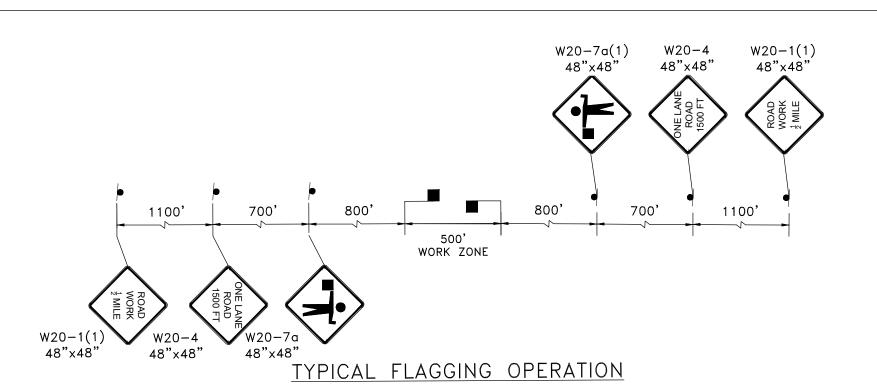












LEGEND

DRUM
TEMPOR

ROAD
WORK
AHEAD
PROPOS

TEMPORARY SIGN

TRAFFIC FLOW AREA

PROPOSED SIGN

WORKZONE

PROPOSED PAVEMENT
REMOVAL

FLAGGER LOCATION

ARROW PANEL

NOTES:

- UTILIZE FLAGGING OPERATION TO ESTABLISH A 500' +/- WORK ZONE ALONG BOWIE MILL RD.
- 2. INCREMENTAL STEP THE WORK ZONE ALONG THE CORRIDOR TO COMPLETE TRAIL WORK.
- 3. DRUM SPACING IS TYPICAL. DRUMS SHALL BE USED IN LIMITED WORK INTERVALS SEE DETAIL ON MT-00.

NOT	00,	CONSTRUCTION

				MONTGOMERY COUNTY DEPARTMENT OF TRANSPORTATION GAITHERSBURG, MARYLAND	
				RECOMMENDED FOR APPROVAL	
				Chief, Design Section APPROVED	Date
				Chief, Division of Transportation Engineering	Date
Ο.	REVISION	DATE	BY	Designed by: CJS Drawn by: CJS Checke	d by: DJD

MT-21 MAINTENANCE OF TRAFFIC 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 __283 __of __393

