INDEX OF SHEETS						
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1	TITLE SHEET	SC0001				
2	NOTES AND ABBREVIATIONS					
3	TYPICAL SECTION					
4	GEOMETRIC SHEET					
5	SHARED USE PATH PLAN-1					
6	SHARED USE PATH PLAN-2					
7	SHARED USE PATH PROFILES					
8	TRAFFIC CONTROL PLAN NOTES					
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11	STORM DRAIN PROFILES-1	SC0002				
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17	EROSION AND SEDIMENT CONTROL DETAILS-1	SC0008				
18	EROSION AND SEDIMENT CONTROL DETAILS-2	SC0009				
19	SIGNALIZATION NOTES					
20	SIGNALIZATION PLAN					

#### DRAINAGE STATEMENT

I understand that DPS approval of this sediment control/stormwater management plan is for demonstrated compliance with required environmental runoff treatment standards. This DPS sediment control/stormwater management plan approval does not relieve me of professional responsibility. I have analyzed the proposed design for sediment control permit no. \_\_\_\_\_ and hereby certify that, based upon my background, training and experience, I have determined that the proposed improvements shown on this plan meet relevant laws and regulations. I further acknowledge that I have analyzed the post development drainage patterns for this project from the standpoint of my responsibilities under current Maryland Law and have determined that if permission is required from adjacent property owners, I have obtained it and have made copies of those permissions available to DPS.

Engineer's Signature	Date

Prin

To be completed by the consultant and placed on the firs	QUIREMENTS TABLE  t sheet of the Sediment Control / Stormwater Management r all projects.
Exempt: Yes No X If exempt under applicable exemption category below.	Section 55-5 of the Code, please check the
Total Property Area	Total Disturbed Area
505,778 square feet	39,184 square feet
Shade Trees Required	Shade Trees Proposed to be Planted
15	0
Fee in Lieu (Trees Required – Trees Planted) x \$250	<b>\$</b> 3,750
Required Number	er of Shade Trees
Area (sq. ft.) of the Limits of Disturbance	Number of Shade Trees Required
FROM TO 1 6,000 6,001 8,000 8,001 12,000 12,001 14,000 14,001 40,000	3 6 9 12 15
If the square footage of the limits of d number of shade trees required must be c	isturbance is more than 40,000, then the alculated using the following formula:
(Number of Square Feet in Limits	of Disturbance $\div 40,000) \times 15$

**EXEMPTION CATEGORIES:** 

necessary permits;

overning safety of dams;

aintenance has obtained all required permits

person performing the work has obtained all

55-5(h) any stream restoration project if the

55-5(i) cutting or clearing any tree to comply with

pplicable provisions of any federal, state, or local law

OTHER: Specify per Section 55-5 of the Code.

55-5(a) any activity that is subject to Article II of

harvesting operation with an approved exemption from

55-5(f) any activity conducted by the County Parks

55-5(g) routine or emergency maintenance of an

existing stormwater management facility, including an

existing access road, if the person performing the

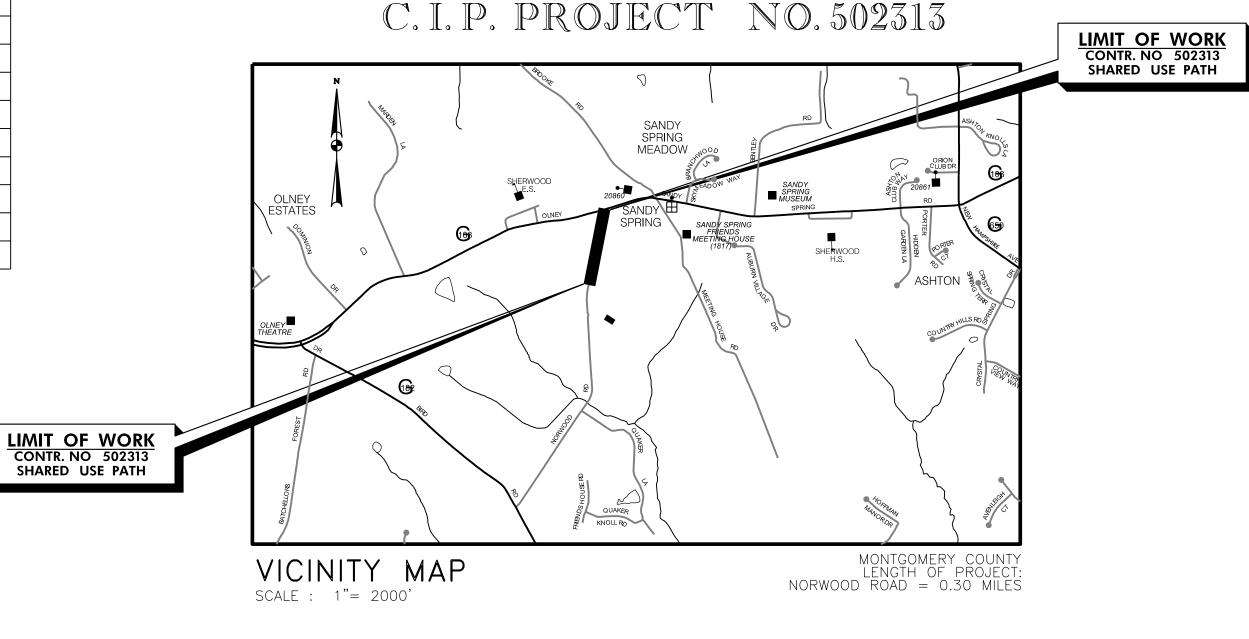
55-5(b) any commercial logging or timber

Chapter 22A;

Article II of Chapter 22A;

# MONTGOMERY COUNTY DEPARTMENT OF TRANSPORTATION

# NORWOOD ROAD SHARED USE PATH



## OWNER'S / DEVELOPER'S CERTIFICATION

I/We hereby certify that all clearing, grading, construction, and or development will be done pursuant to this plan and that any responsible personnel involved in the construction project will have a Certificate of Attendance at a Department of Natural Resources approved training program for the control of sediment and erosion before beginning the project.

JOSE THOMMANA

CHIEF, DIVISION OF TRANSPORTATION ENGINEERING

### DESIGN CERTIFICATION

I hereby certify that this plan has been prepared in accordance with the "2011 Maryland Standards and Specification for Soil Erosion and Sediment Control," Montgomery County Department of Permitting Services Executive Regulations 5-90, 7-02AM and 36-90, and Montgomery County Department of Public Works and Transportation "Storm Drain Design Criteria" dated August 1988.

DATE

MICHAEL MERCADO, P.E. MERCADO CONSULTANTS, INC.

## CERTIFICATION OF THE QUANTITIES

I hereby certify that the estimated total yards of excavation and fill as shown on this plan has been computed to 250 cubic yards of excavation, 70 cubic yards of fill and the total area to be disturbed as shown on these plans has been determined to be 39,184 square feet.

SIGNATI	JRE			
	MICHAEL	MERCADO,	P.E.	

PRINTED NAME AND TITLE

38931

DATE

MR2025012 WSSC MAP # 224NW01 TAX MAP ID: JT122/JT342

RELATED REQUIRED PERMITS IT IS THE RESPONSIBILTY OF PERMITTEE/OWNER OF THIS SITE TO OBTAIN ALL REQUIRED PERMITS PRIOR TO ISSUANCE OF THE APPROVED SEDIMENT CONTROL PERMIT WORK RESTRICTION DATES WATERWAYS/WETLAND(S): Corps of Engineers Χ MDE Water Quality \* DPS Roadside Trees Protection Plan DATE FILED N.P.D.E.S. NOTICE OF INTENT (Required Post Construction) OTHERS: DPS Erosion \* A copy of the Roadside Trees Protection Plan must be delivered to the sediment control inspector at the preconstruction meeting. OWNER/PERMIT APPLICANT INFORMATION

MONTGOMERY COUNTY DEPARTMENT OF TRANSPORTATION 100 EDISON PARK DRIVE 4th FLOOR, GAITHERSBURG, MD 20878

PHONE NUMBER: (240) 777-7263 CONTACT PERSON: REBECCA PARK, P.E.

#### GENERAL NOTES

- I. ALL CONSTRUCTION SHALL BE DONE IN ACCORDANCE WITH THE LATEST EDITION OF THE STANDARD SPECIFICATIONS OF THE MARYLAND STATE HIGHWAY ADMINISTRATION JULY 2023 AND MONTGOMERY COUNTY DESIGN STANDARDS.
- 2. INFORMATION CONCERNING UNDERGROUND UTILITIES WAS OBTAINED FROM AVAILABLE RECORDS, BUT THE CONTRACTOR MUST DETERMINE THE EXACT LOCATIONS AND ELEVATIONS OF THE LINES BY DIGGING TEST PITS BY HAND AT ALL UTILITY CROSSINGS, WELL IN ADVANCE OF TRENCHING. IF CLEARANCES ARE LESS THAN SHOWN OR SIX (6) INCHES, WHICHEVER IS LESS, CONTACT MONTGOMERY COUNTY DEPARTMENT OF TRANSPORTATION'S PROJECT INSPECTOR AND THE APPROPRIATE UTILITY OWNER BEFORE PROCEEDING WITH
- 3. REPAIRS TO UTILITIES OR PROPERTY DAMAGE AS A RESULT OF THE CONTRACTOR'S NEGLIGENCE OR METHOD OF OPERATION MUST BE MADE AT THE CONTRACTOR'S EXPENSE
- BEFORE PROCEEDING WITH CONSTRUCTION.

  4. CALL "MISS UTILITY" AT 1-800-257-7777 FORTY-EIGHT (48) HOURS PRIOR TO BEGINNING EXCAVATION TO DETERMINE THE EXACT LOCATION OF EXISTING UTILITIES.
- 5. CLEARING IS TO BE LIMITED TO THE "LIMIT OF GRADING" AS SHOWN ON THE PLANS.
  6. ALL GRADING SHALL BE DONE IN SUCH A MANNER AS TO PROVIDE POSITIVE DRAINAGE.
  7. ALL DISTURBED AREAS TO BE SEEDED AND MULCHED UNLESS OTHERWISE NOTED.
  8. THE CONTRACTOR SHALL OBTAIN A ROADSIDE TREE PERMIT FOR ANY MAINTENANCE,
- TREATMENT, PLANTING, REMOVAL, OR ROOT CUTTING ON TREES WITHIN THE PUBLIC RIGHT OF WAY. PERMIT REQUIREMENTS MAY BE OBTAINED FROM THE DEPARTMENT OF NATURAL RESOURCES, MARYLAND FOREST, PARK AND WILDLIFE SERVICE, TELEPHONE 301-854-6060.
- 9. THE PERMITTEE SHALL REFER TO THE ATTACHED TEMPORARY TRAFFIC CONTROL PLAN (TTCP) DRAWINGS TO SELECT THE APPROPRIATE WORK ZONE TEMPORARY TRAFFIC CONTROLS FOR EACH PHASE OF CONSTRUCTION. WORK ZONE SITUATIONS WHICH ARE NOT ADDRESSED IN THE ATTACHED TICP SHALL CONFORM TO THE GUIDELINES SET FORTH IN SECTION 6 OF THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS (MUTCD),
- MOST RECENT EDITION.
  10. FOR CONSTRUCTION, ALL HORIZONTAL AND VERTICAL CONTROLS SHALL BE NAD 83 (2007) AND NAVD 88 DATUM.

65% DESIGN SUBMISSION 11-20-2023

TECHNICAL REVIEW OF SEDIMENT CONTROL		ADMINISTRA	TIVE REVIEW	DPS APPROVAL OF A SEDIMENT CONTROL OR STORMWATER MANAGEMENT PLAN IS FOR DEMONSTRATED COMPLIANCE WITH MINIMUM ENVIRONMENTAL RUNOFF TREATMENT STANDARDS AND DOES NOT CREATE OR IMPLY ANY RIGHT TO DIVERT OR
				CONCENTRATE RUNOFF ONTO ANY ADJACENT PROPERTY WITHOUT THAT PROPERTY OWNER'S PERMISSION. IT DOES NOT RELIEVE THE DESIGN ENGINEER OR OTHER RESPONSIBLE PERSON OF PROFESSIONAL LIABILITY OR ETHICAL RESPONSIBILITY FOR THE ADEQUACY OF THE DRAINAGE DESIGN AS IT AFFECTS UPHILL OR DOWNHILL PROPERTIES.
REVIEWED	DATE	REVIEWED	DATE	
TECHNICAL STORMWATER	REVIEW OF MANAGEMENT		LOT APPROVAL	SEDIMENT CONTROL PERMIT NO.
		N/A:⊠ OR		
				SM. FILE NO. STORMWATER MANAGEMENT
REVIEWED	DATE	REVIEWED	DATE	
TWO YEARS FROM T	THIS PLAN WILL EXPIRE HE DATE OF APPROVAL HAS NOT STARTED.	NOTE: MCDPS APPROVA NEED FOR A MCDPS	L DOES NOT NEGATE THE ACCESS PERMIT.	
MONTGOMERY CO	JNTY DEPARTMENT OF	TRANSPORTATION		

MONTGOMERY COUNTY DEPARTMENT OF TRANSPORT DIVISION OF TRANSPORTATION ENGINEERING GAITHERSBURG, MARYLAND	ATION	NORWOOD ROAD SHARED USE PATH			
COMMENDED FOR APPROVAL  Sef. Design Section Date PROVED			SHEET		
ef, Division of Transportation Engineering Date		SCALE : AS SHOWN	DATE: NOVEMBER, 2023		
signed by :MWM Drawn by :NL Checked t	эу <b>:МWМ</b>	Project No. : 502313	SHEET 1 of 20		

MERCADO CONSULTANTS, INC.

REVISION DATE PROFESSIONAL CERTIFICATION: I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED OF MARYLAND.

PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE LICENSE NO: 38931 EXPIRATION DATE: 12-22-2023

REGISTRATION NUMBER

# **ABBREVIATIONS**

. Structural Steel Plate Pipe Arch Standard Penetration Testing

ASHTO	American Association of State Highway	HP	High Point	R.Q.D	Rock Quality Designation
	Transportation Officials	IN			Rootmat
.DT	Average Daily Traffic	INV	Invert	S	South
.HD			Junction Box		Sanitary Sewer
	Approximate	K			Southbound
or B/L		L			Storm Drain
	Back / Book		Linear Feet		Surface Drain Ditch
	Bituminous		Liquid Limit		Super Elevation
	Bituminous Concrete		Limit of Disturbance		Silt Fence
	Bench Mark		Low Point		Square Feet
OT			Light Pole	SHT	
	Center of Curve	LT			Structural Steel Plate Pipe
	Corrugated Aluminum Pipe		Macadam		Structural Steel Plate Pipe A
	Corrugated Aluminum Pipe Corrugated Aluminum Pipe Arch		Moisture Content		Structural Steel Flate Fipe F
	Cable Television		Moisture Content		Standard Penetration Testin
	California Bearing Ratio		Maximum Dry Content		Aluminized Type 2
	Centerline		Modified	5RPA	Steel Spiral Rib Pipe Arch -
L			Minimum	000	Aluminized Type 2
	Chainlink Fence	N			Stopping Sight Distance
	Corrugated Metal Pipe		Northbound		Super Silt Fence
	Cleanout		Northeast	STD.	
	Combination		Non-Plastic	STA	
	Concrete		On Center		Single Opening
	Construction		Overhead Electric	SY	Square Yards
OR	Corner	O.M	Optimum Moisture	SWM	Stormwater Management
ORR	Correction		Pavement	T	Tangent
PP-S	Corrugated Polyethylene Pipe - Type 'S'	PC	Point of Curvature	T	Telephone
SP	Corrugated Steel Pipe - Aluminized Type 2	PCC	Point of Compound Curvature	T.C	Top of Cover
SPA	Corrugated Steel Pipe Arch -	P/C	Point of Crown	T.G	Top of Grate
	Aluminized Type 2	P/GE	Profile Grade Elevation		Traverse Line
C	Degree of Curve	P.G.E.	Profile Ground Elevation		Top of Manhole
	Design Hourly Volume		Profile Grade Line		Traverse
	Drop Inlet		Profile Ground Line		Temporary Swale
	Diameter		Point of Rotation		Top of Slab
	Double Opening		Plasticity Index	T.S	•
:	,		Point of Intersection	TYP	•
·			Point On Curve		Under Drain
	External Distance		Point On Tangent		Under Brain
: :A			Point On Tangent Polyvinyl Chloride Profile Wall Pipe		Utility Pole
	Eastbound		Proposed	US EPA	United States Environmenta
	Elevation		Point of Reverse Curve	LIODA	Protection Agency
	End Section	PT		USDA	United States Department
	Erosion and Sediment Control		Point of Tangency		of Agriculture
X or EXIST	<u> </u>		Point of Vertical Curve		Vertical Clearance
Τ			Polyvinyl Chloride		Vertical Curve Length
or FL			Point of Vertical Intersection	W	
	Flat Bottom Ditch		Point of Vertical Reverse Curve	W	
	Fire Hydrant		Point of Vertical Tangency		Westbound
WD		R	Radius	WB	Wetland Buffer
)	Gas	R.F	Rock Fragments	W.M	Water Meter
	Gas Valve	RT			Wrapped Steel
	Handbox		Right of Way		Waters of the United States
	Headwall		Reinforced Concrete Pipe		Water Valve
	Horizontal Ellipitical Reinforced		Reinforced Concrete Pressure Pipe		

# CONVENTIONAL SIGNS

PROPOSED MEDIAN BARRIER	<u> </u>
ELECTRICAL HAND BOX - SIGNALS	н.В. —
FLOW LINE	···· —
STATE, COUNTY OR CITY LINES	
PROPOSED TRAFFIC BARRIER W-BEAM	• • • • •
EXISTING TRAFFIC BARRIER W-BEAM	+ + +
PROPOSED FENCE LINE	
EXISTING FENCE LINE	
PROPOSED CURB AND GUTTER	
R/W LINE ·····	
TEMPORARY CONSTRUCTION EASEMENT	TCE ——
EXISTING ROADWAY ·····	//==>
BASE LINE OR SURVEY LINE	
FIRE HYDRANT ·····	r.H.
HISTORIC BOUNDARY	н
PARK BOUNDARY	P ——
WATER LINE	
OVERHEAD ELECTRIC	— Е —
TRAFFIC BARRIER	



EXISTING 100 YEAR FLOODPLAIN BOUNDARY PROPOSED 100 YEAR FLOODPLAIN BOUNDARY WETLAND BOUNDARY PROPOSED PIPE / CULVERT EXISTING PIPE / CULVERT EXISTING DROP INLET UTILITY POLE	
EXISTING OVERHEAD ELECTRIC	
EXISTING FIBER OPTIC	
EXISTING TELEPHONE	عاد عاد
WETLAND PHEEED	
WETLAND BUFFER	в
WATERS OF THE U.S	
HEDGE /TREE LINE	~~~~~
BUSH /TREE	$\odot$
CONIFEROUS TREE	W.
GROUND ELEVATION	DATUM LINE -
GRADE ELEVATION	DATUM LINE   50.55
PIPE TO BE REMOVED	
PIPE TO BE ABANDONED	-//////-
DIRECTION OF TRAFFIC FLOW	

# SOILS LEGEND

A-2-7 CLAYEY SAND 4+ A-7-4 ++ SILTY CLAY ::::: A-3 SAND ## A-7-2 ## SANDY CLAY A-2 SAND & FINES + + A-7 + + CLAY A-4 SILT A-6 COLLOIDAL CLAY A-2-4 SILTY SAND A-4-7 CLAYEY SILT A-4-2 SANDY SILT A-5 MICA, DIATOMS

PLAN LOCATION OF SOIL BORINGS

AO-ABOVE OPTIMUM

BORING TARGETS AND PROFILES SCALE: HORIZONTAL - NONE VERTICAL - SEE PROFILE SHEETS

SAT-SATURATED LIQ-LIQUEFIED TS-TOPSOIL RM-ROOT MAT BC-BITUMINOUS CONCRETE SB-STONE BASE PCC-PORTLAND CEMENT CONCRETE

LL-LIQUID LIMIT (%) PI-PLASTICITY INDEX (%) NP-NON-PLASTIC OMC-OPTIMUM MOISTURE CONTENT (%) USC-UNIFIED SOIL CLASSIFICATION USDA-UNITED STATES DEPARTMENT OF AGRICULTURE CLASSIFICATION

W/GR-WITH GRAVEL W/RF-WITH ROCK FRAGMENTS

NOTES: SOIL SYMBOLS DENOTE MSMT CLASSIFICATIONS

ALL DIMENSIONS, DEPTHS AND ELEVATIONS ARE NOTED IN FEET

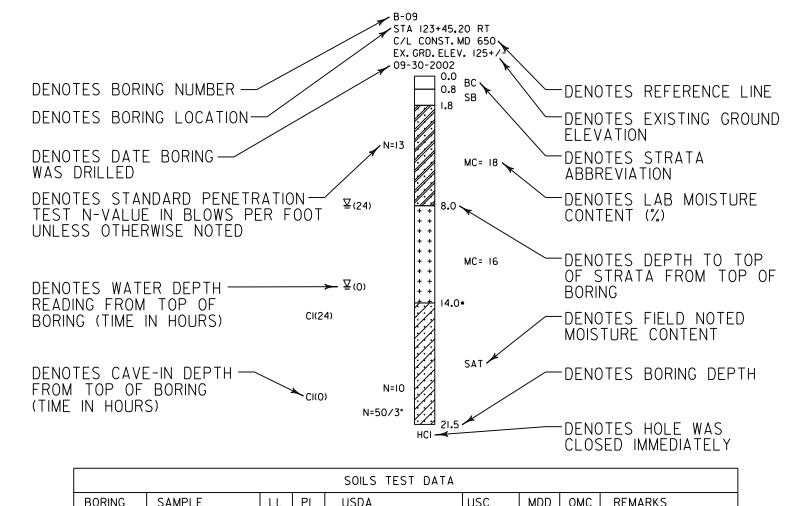
AN ASTERISK AT THE TOP DEPTH OF STRATA INDICATES THAT STRATA WAS VISUALLY CLASSIFIED BY DRILLER

MDD & OMC PER A.A.S.H.T.O. DESIGNATION T-180

N PER A.A.S.H.T.O. DESIGNATION T-206

UNLESS OTHERWISE NOTED ON PLANS, ALL SOIL SURVEY BORINGS FOR ROADWAY CONSTRUCTION WERE LEFT OPEN FOR 24 HOURS WITH NO EXCESS MOISTURE OR FREE WATER ENCOUNTERED DURING TIME OF SOIL SURVEY (09/2000 TO 06/2002)

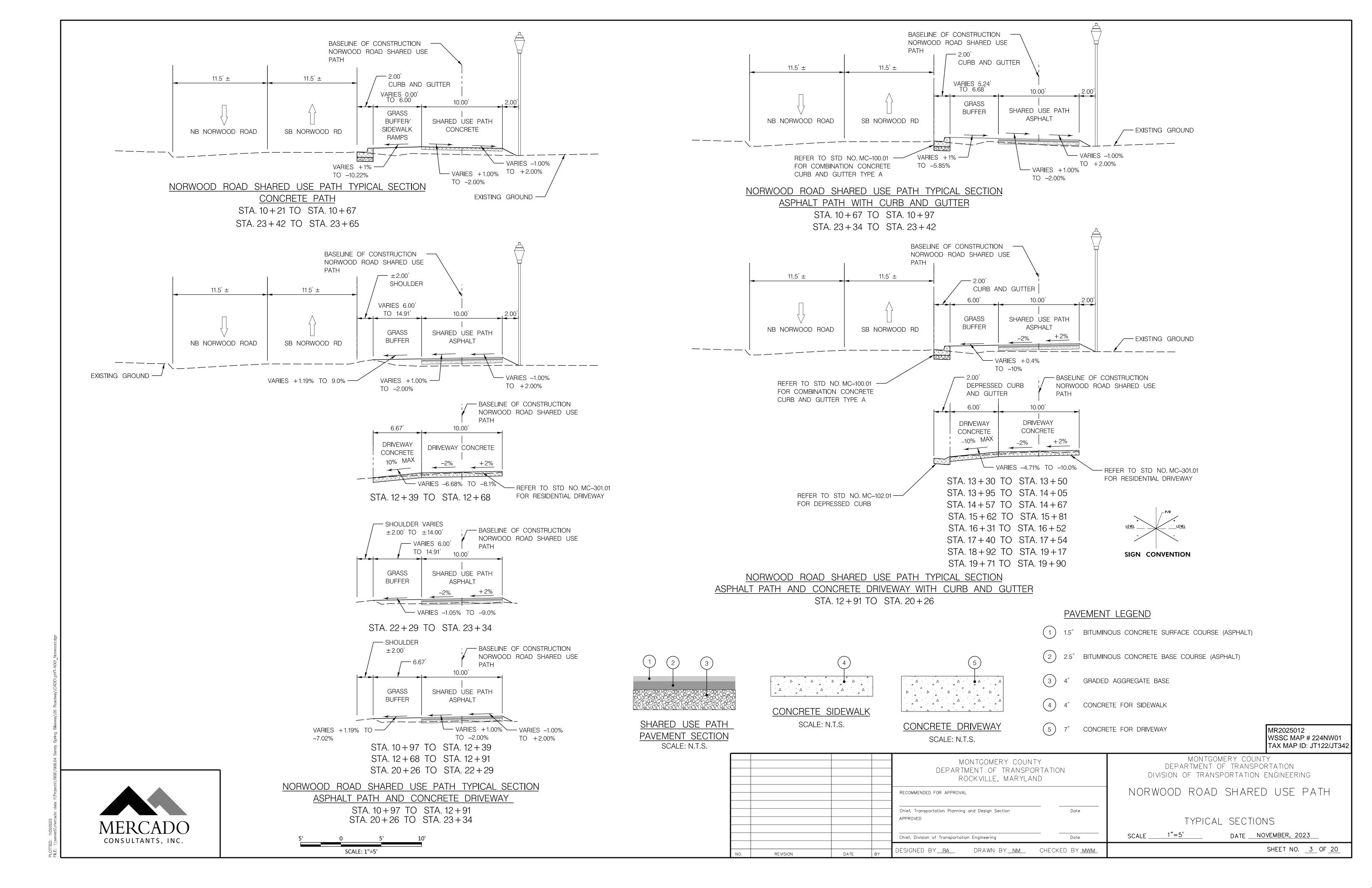
# SOIL BORING PROFILE EXAMPLE

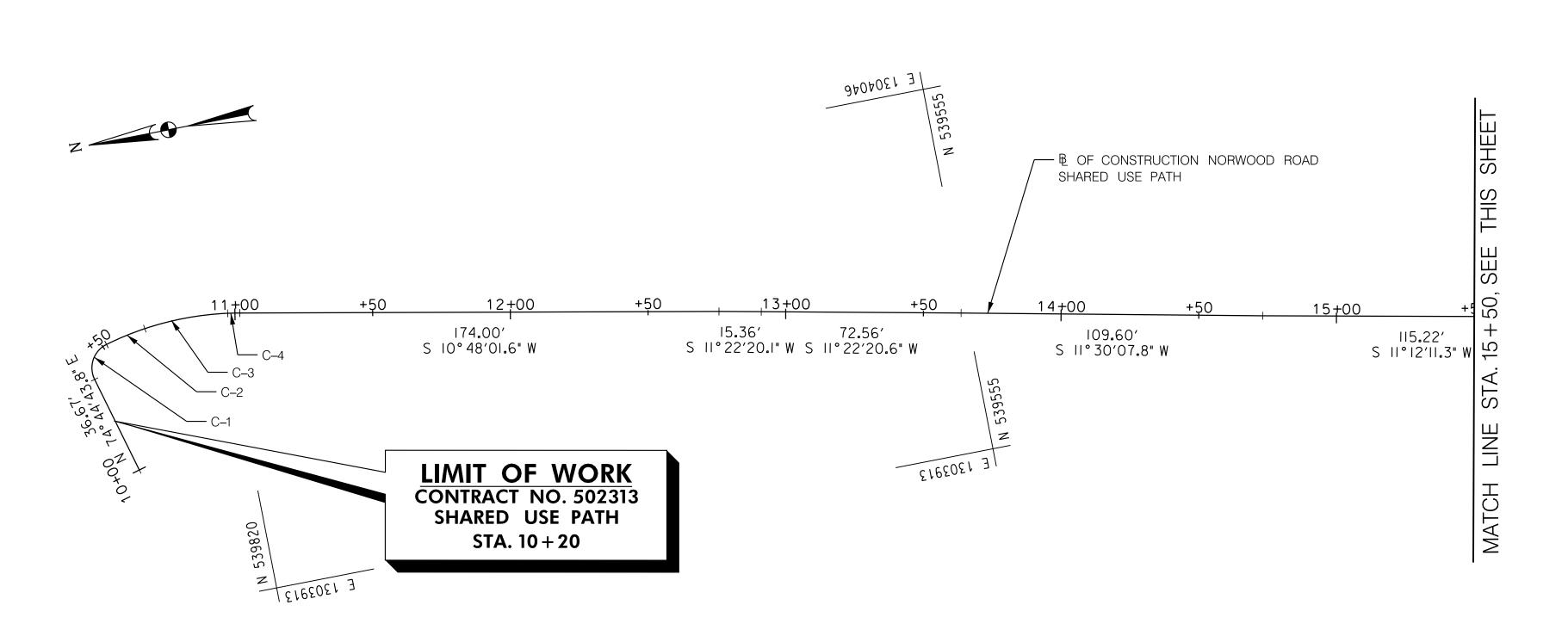


SUILS TEST DATA								
BORING NUMBER	SAMPLE DEPTH	LL	PI	USDA	USC	MDD	ОМС	REMARKS
B-09	1.8 - 8.0	18	NP	Sandy Loam	-	-	-	with Gravel
B-09	8.0 - 14.0	41	22	Silty Clay Loam	CL	121	12	-

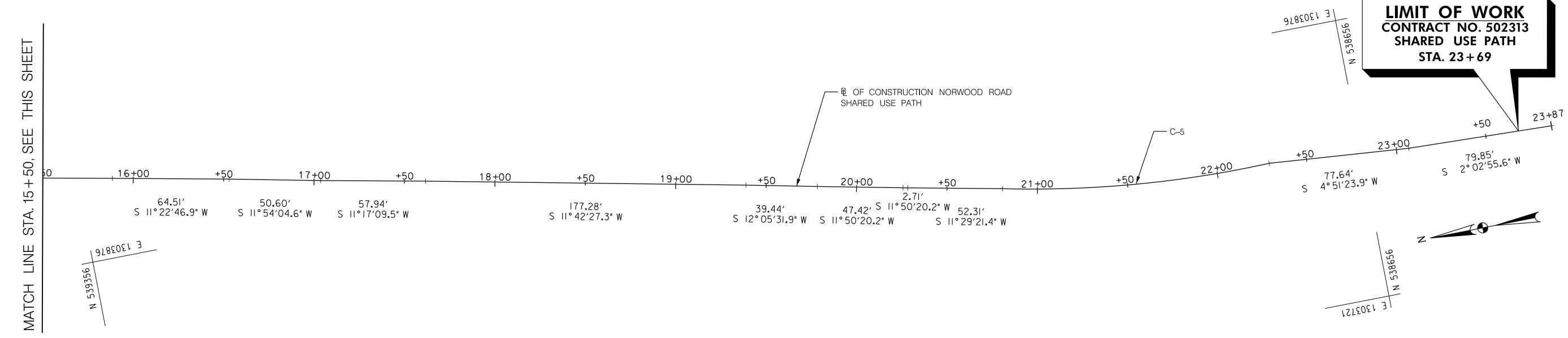
MR2025012 WSSC MAP # 224NW01 TAX MAP ID: JT122/JT342

				MONTGOMERY COUNTY DEPARTMENT OF TRANSPORTA ROCKVILLE, MARYLAND	TION	MONTGOMERY COUNTY DEPARTMENT OF TRANSPORTATION DIVISION OF TRANSPORTATION ENGINEERING
				RECOMMENDED FOR APPROVAL		NORWOOD ROAD SHARED USE PATH
				Chief, Transportation Planning and Design Section  APPROVED	Date	NOTES AND ABBREVIATIONS
				Chief, Division of Transportation Engineering	 Date	SCALE <u>NONE</u> DATE <u>NOVEMBER, 2023</u>
NO.	REVISION	DATE	BY	DESIGNED BY <u>ra</u> DRAWN BY <u>nm</u> Che	ECKED BY <u>mwm</u>	SHEET NO. <u>2</u> OF <u>20</u>





CURVE	POINT NO.	STATION	NORTH	EAST	BEARING
CORVE		BASELINE OF CONS	TRUCTION SANDY S	PRING BIKE PATH	
	POB	10+00.00	539860.8066	1303964.5451	N 74°44′43.77"E
C-I	PC	10+36.67	539870.4539	1303999.9199	N 14 44 45.11 E
Ci	PI	10+46.17	539872.9534	1304009.0852	
C-2	PCC	10+51.59	539863.7941	1304011.5829	S 15°15′16 <b>.</b> 2274" E
C-2	PI	10+59.13	539856.5191	1304013.5796	3 13 13 16.2214 E
C-3	PCC	10+66.65	539849.0396	1304014.5644	C 78 70/02 0077# F
C-3	PI	10+82.10	539833.7293	1304016.5803	S 7°30′02.9937" E
	PCC	10+97.34	539818.4557	1304014.3026	C 08 20/E 4 20/CE II W
C-4	PI	10+99.56	539816.254	1304013.9743	S 8°28′54.2865" W
	PT	11+01.79	539814.0673	1304013.5571	C 108 40/01 ECI 41 W
	PT	12+75.79	539643.154	1303980.9523	S 10°48′01.5614" W
	PT	12+91.14	539628.0995	1303977.9244	S II°22′20.1460" W
	PT	13+63.70	539556.9678	1303963.6174	S II° 22′20.5893" W
	PT	14+73.30	539449.5692	1303941.7627	S II° 30′07.7957" W
	PT	I5+88 <b>.</b> 52	539336.543	1303919.3764	S II°12′II.3239" W
	PT	16+53.03	539273.3023	1303906.6482	S II°22′46.865I" W
	PT	17+03.63	539223.7891	1303896.213	S II°54′04.6417" W
	PT	17+61.57	539166.9657	1303884.873	S II°17′09.4693" W
	PT	19+38.85	538993.374	1303848.8999	S II° 42′27.3455" W
	PT	19+78.29	538954.8138	1303840.6388	S 12°05′31.8955" W
	PT	20+25.71	538908.4044	1303830.9105	S II°50′20.1904" W
	PT	20+28.41	538905.7546	1303830.355	S II°50′20.1904" W
	PC	20+80.73	538854.4896	1303819.935	C 118 20/21 75 741 W
C-5	PI	21+55.34	538781.6667	1303803.7018	S II°29′21.3574" W
	PT	22+29.20	538707.0803	1303805.589	C 48 E 1/07 0 E 7 C :
	PT	23+06.85	538629.7156	1303799.0155	- S 4°51′23.8536" W
	POE	23+86.70	538549.9122	1303796.1607	S 2°02′55.5953" W
		l .			



	CURVE DATA								
CURVE	DELTA	Dc	RADIUS	TANGENT	LENGTH	EXTERNAL			
C-I	90°00′00 <b>.</b> 00" RT	603° 06′55 <b>.</b> 34"	9 <b>.</b> 50	9.50	14.9225	3 <b>.</b> 9350			
C-2	7°50′48 <b>.</b> 07" RT	52° 05′13 <b>.</b> 51"	110.00	7.5441	15.0646	0.2584			
C-3	15° 58′57.28" RT	52° 05′13 <b>.</b> 51"	110.00	15.4424	30.6843	1.0787			
C-4	2°19′07 <b>.</b> 27" RT	52° 05′13 <b>.</b> 51"	110.00	2.2261	4.4516	0.0225			
C-5	14° 00′57 <b>.</b> 23" LT	9° 26′23 <b>.</b> 50"	606.96	74.6103	148.4757	4.5686			

MR2025012 WSSC MAP # 224NW01 TAX MAP ID: JT122/JT342

				MONTGOMERY COUNTY DEPARTMENT OF TRANSPORTATION ROCKVILLE, MARYLAND		
				RECOMMENDED FOR APPROVAL		
				Chief, Transportation Planning and Design Section  APPROVED	Date	
				Chief, Division of Transportation Engineering	 Date	
NO.	REVISION	DATE	BY	DESIGNED BY <u>ra</u> Drawn by <u>nm</u> Check	KED BY <u>mwm</u>	

MONTGOMERY COUNTY DEPARTMENT OF TRANSPORTATION DIVISION OF TRANSPORTATION ENGINEERING

NORWOOD ROAD SHARED USE PATH

GEOMETRIC SHEET

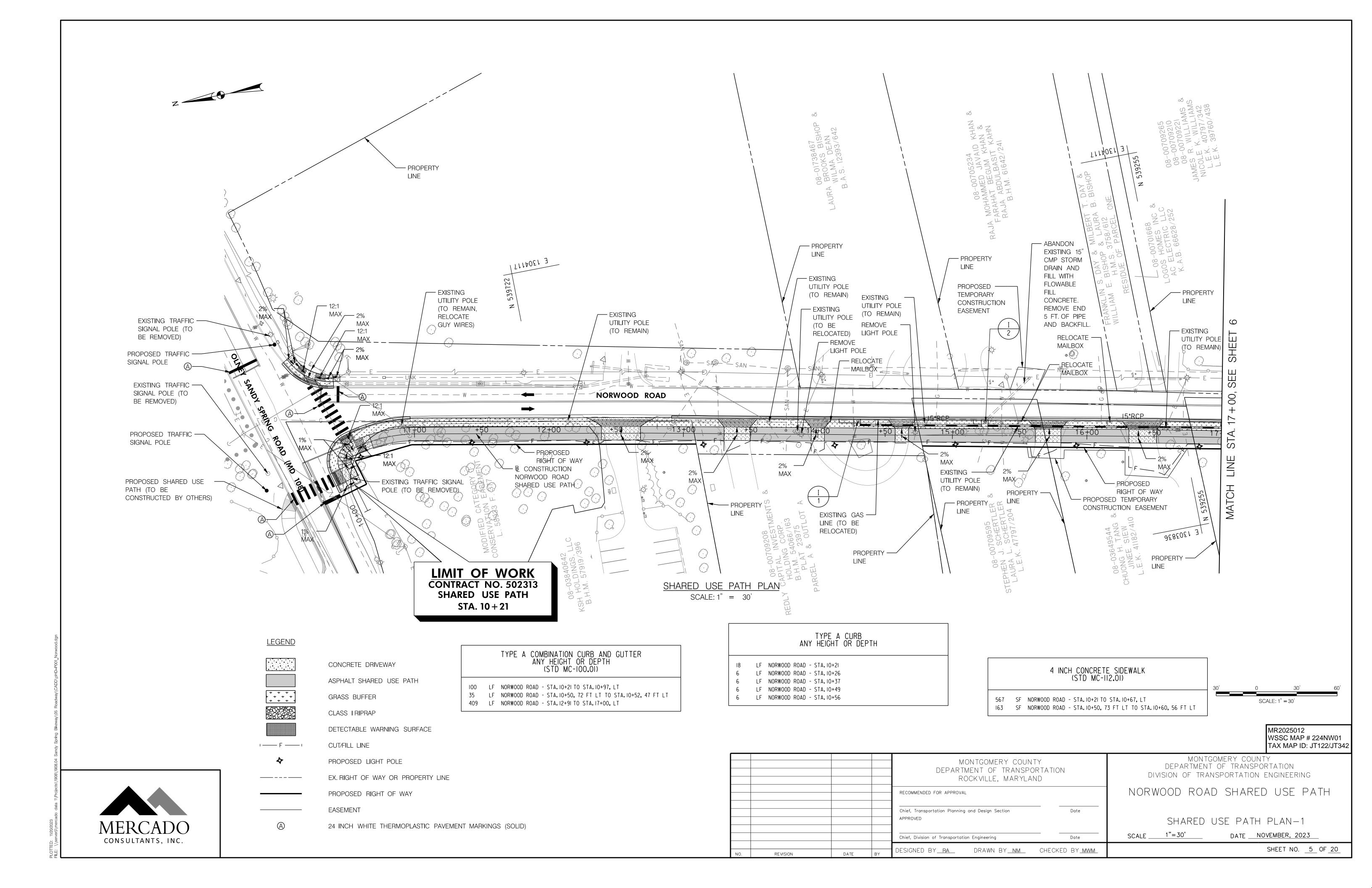
SCALE \_\_\_\_\_1"=30' DATE \_\_\_NOVEMBER, 2023

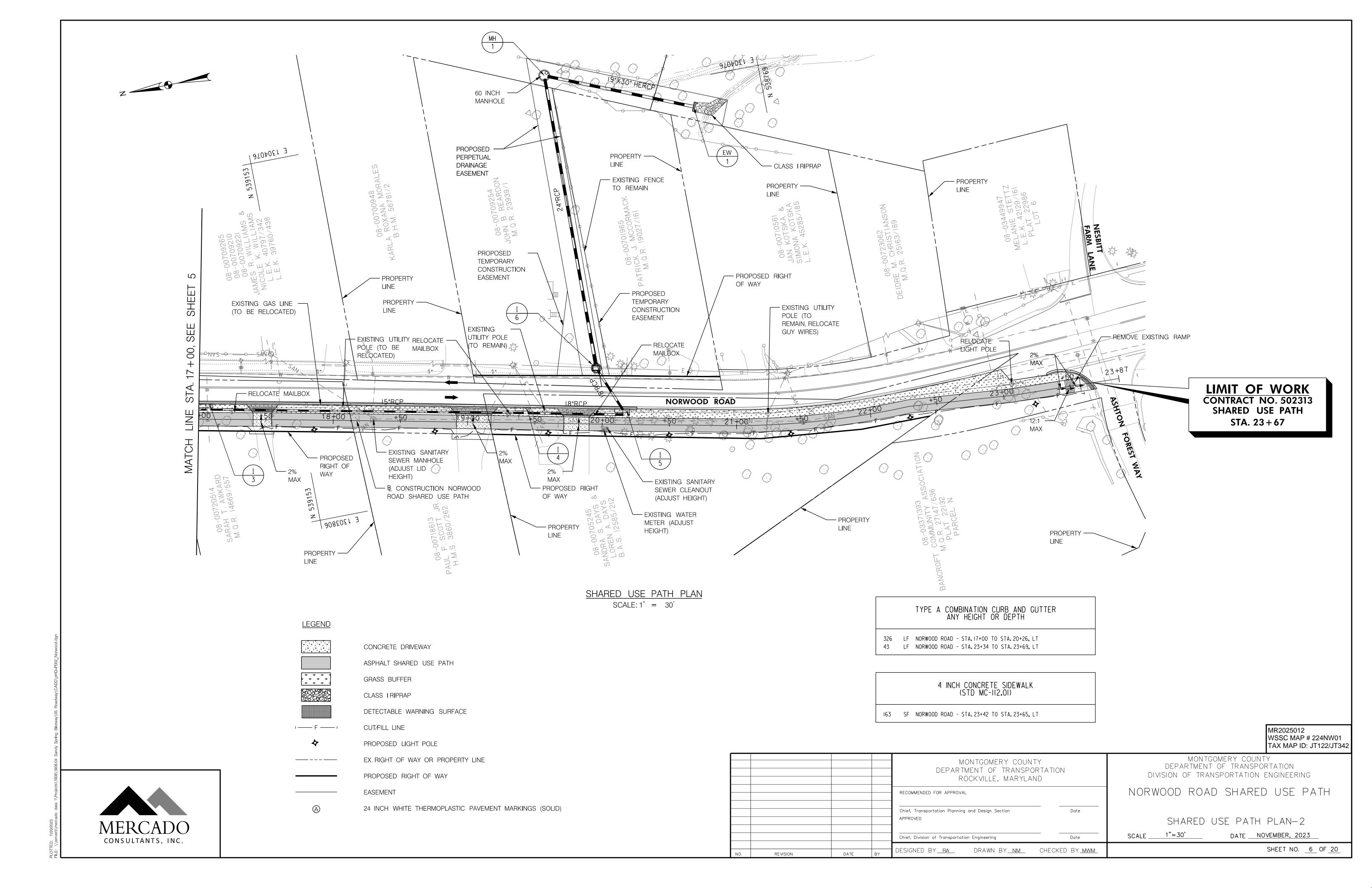
SHEET NO. 4 OF 20

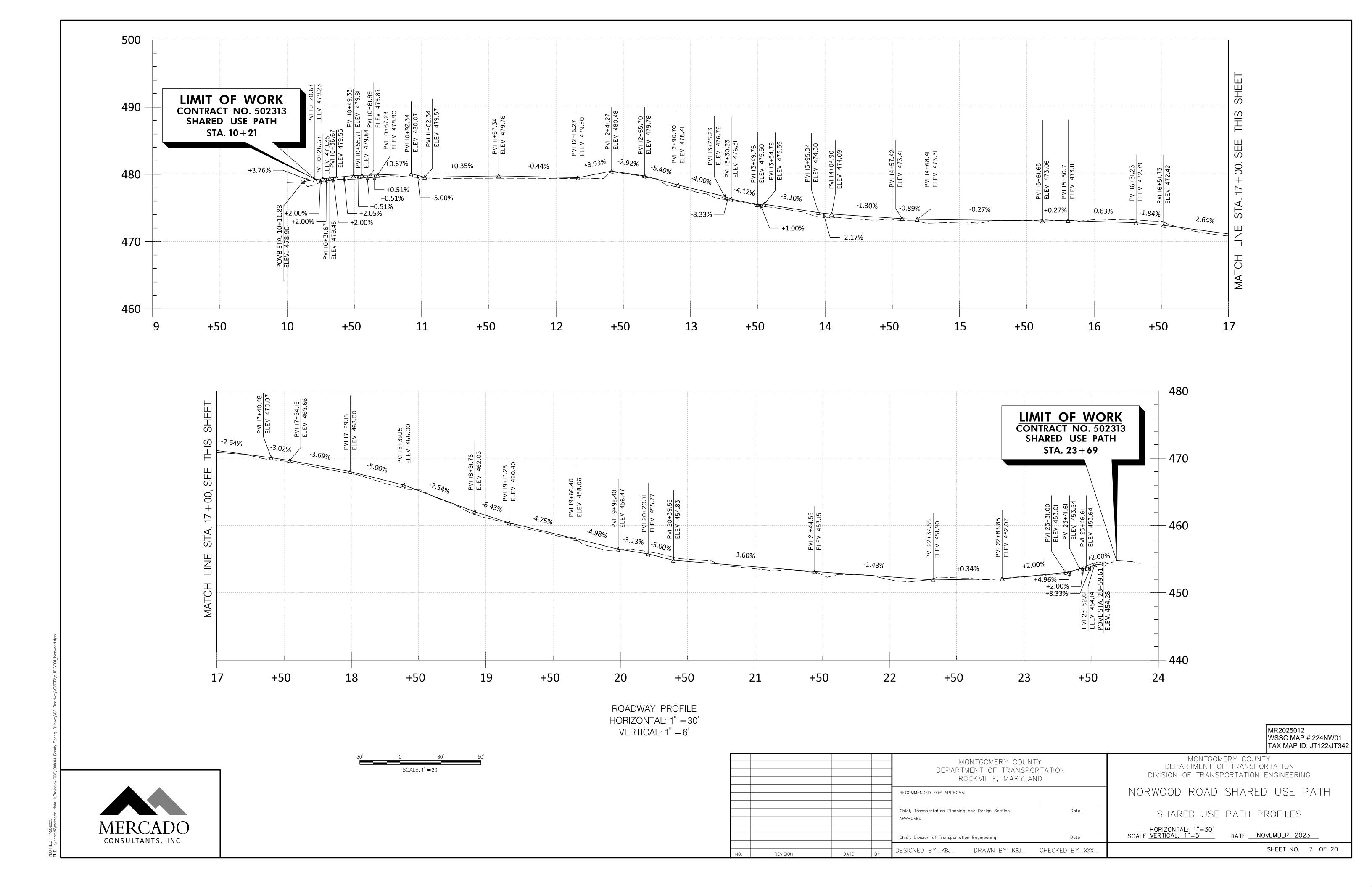


0' 0 30' 60 SCALE: 1" = 30'

TED: 1120/2023 |\server5\mercado data 1\







#### I. TRAFFIC CONTROL PLAN GENERAL REQUIREMENTS

- A. A PRIME REQUIREMENT OF THIS CONTRACT IS THAT TWO (2) WAY TRAFFIC BE MAINTAINED AT ALL TIMES ALONG NORWOOD ROAD, IN AN ORDERLY, EXPEDITIOUS AND SAFE MANNER UNLESS OTHERWISE NOTED IN THE PLANS. FLAGGER CONTROL SHALL BE UTILIZED AS A METHOD OF MAINTAINING ONE LANE TWO WAY TRAFFIC DURING WORKING HOURS. THE WIDTH OF ANY LANE SHALL REMAIN AT LEAST A MINIMUM OF NINE (9) FEET WIDE DURING NON-WORKING HOURS.
- B. UNLESS OTHERWISE APPROVED BY THE TRAFFIC ENGINEERING AND OPERATIONS SECTION, THE NUMBER OF LANES OF TRAFFIC ON NORWOOD ROAD SHOWN ON THE T.C.P. SHALL BE MAINTAINED DURING NON-WORKING HOURS.
- C. THE SEQUENCE OF OPERATIONS OF THE CONSTRUCTION REFERS SPECIFICALLY TO THE CRITICAL ITEMS OF WORK WHICH MUST BE COMPLETED. THE LISTED ITEMS ARE A SUGGESTED SEQUENCE OF WORK TO BE FOLLOWED TO PROVIDE FOR ORDERLY COMPLETION OF WORK. THE MANY OTHER ITEMS OF WORK WHICH ARE NOT LISTED AND WHICH MAY BE PERFORMED WITHOUT INTERRUPTING TRAFFIC OR AFFECTING THE CONSTRUCTION SCHEDULING AND DO NOT CONTROL THE OVERALL SCHEDULE FOR COMPLETING THE PROJECT ARE NOT LISTED.
- D. ALL SIDEWALK CLOSURES SHALL REQUIRE THE APPROVAL OF DIVISION OF TRAFFIC ENGINEERING AND OPERATIONS. ANY SIDEWALK CLOSURE GREATER THAN TWO (2) WEEKS SHALL REQUIRE THE SUBMITTAL OF A WRITTEN REQUEST TO THE DIVISION OF TRAFFIC ENGINEERING AND OPERATIONS AND MAY REQUIRE ADDITIONAL TRAFFIC CONTROLS. SIDEWALK CLOSURES SHALL BE LIMITED TO OCCUR ONLY DURING THE ACTUAL WORK ACTIVITY. DURING CLOSURE, SIDEWALKS SHALL BE BARRICADED TO PHYSICALLY PREVENT PEDESTRIAN PASSAGE AND APPROPRIATE DETOURS SHALL BE POSTED. DURING ALL OTHER TIMES, PROVISIONS FOR SAFE PEDESTRIAN ACCESS THROUGH THE WORK AREA. VIA A TEMPORARY WALKWAY SHALL BE PROVIDED.
- E. ANY WORK WITHIN THE TRAVELED PORTION OF THE ROADWAY WILL BE RESTRICTED TO THE HOURS OF 9:00 A.M. TO 3:30 P.M., MONDAY THRU FRIDAY. NO WORK ON HOLIDAYS OR WEEKENDS UNLESS WRITTEN EXCEPTION IS GRANTED IN WRITING BY THE COUNTY'S DPS INSPECTOR.
- F. CONSTRUCTION ACTIVITY, LOADING OR UNLOADING OF EQUIPMENT SHALL NOT BLOCK ANY TRAFFIC LANE OTHER THAN THOSE DELINEATED WITHIN THE WORK
- G. EXCLUSIVE OF EMERGENCY WORK, THE CONTRACTOR SHALL CONTACT OCCUPANTS OF ALL ADJOINING PROPERTIES AND INFORM THEM OF THE SCOPE AND THE TIMING OF CONSTRUCTION. A MINIMUM OF 24 HOURS NOTIFICATION SHALL BE REQUIRED PRIOR TO THE COMMENCEMENT OF ANY ACTIVITY ON THE SITE.
- H. ACCESS SHALL BE MAINTAINED TO ALL DRIVEWAYS UNLESS PERMISSION FOR CLOSURE IS GRANTED BY THE PROPERTY OWNER/MANAGER. HOWEVER, ACCESSIBILITY FOR EMERGENCY VEHICLES SHALL BE MAINTAINED AT ALL TIMES.
- I. IF ANY TRAFFIC CONTROL SIGNS ARE TO BE PLACED ALONG A MDOT SHA ROADWAY, OR WITHIN THE LIMITS OF AN INCORPORATED AREAS, THE PERMITTEE SHALL NOTIFY THE APPROPRIATE AGENCY OF SIGNAGE TO BE INSTALLED.
- J. NO HAZARDOUS MATERIALS SHALL BE STORED WITHIN PUBLIC RIGHT-OF-WAY. NO MATERIALS OR EQUIPMENT SHALL BE STORED ON THE ROADWAY SURFACE OR SIDEWALK DURING NON-WORK PERIODS. ALL STORED MATERIALS AND EQUIPMENT SHALL BE SET BACK AT LEAST SIX (6) FEET BEHIND THE CURB ALONG A CLOSED SECTION ROADWAY AND AT LEAST TWELVE (12) FEET FROM EDGE OF OPEN SECTION ROADWAY.
- K. ANY EXCAVATION(S) IN THE ROADWAY SHALL BE PAVED TO LEVEL GRADE OR PLATED AND THE ROADWAY REOPENED TO ITS FULL CROSS-SECTION PRIOR TO THE END OF EACH WORK DAY." STEEL PLATES AHEAD" (W21-9) SIGNS SHALL BE PLACED APPROXIMATELY 250 FEET IN ADVANCE OF ANY STEEL PLATE. ANY EXCAVATIONS IN THE SIDEWALK SHALL BE BACKFILLED OR PLATED PRIOR TO THE END OF EACH WORKDAY AND SIDEWALK REOPENED TO ITS FULL CROSS

- L. TRAFFIC SHALL NOT BE PERMITTED WITHIN TEN (10) FEET OF ANY EXCAVATION THAT RESULTS IN A VERTICAL DROP-OFF OF MORE THAN FIVE (5) INCHES IN THE LEVEL OF PAVEMENT DURING NON-WORKING HOURS UNLESS PROTECTED BY TEMPORARY CONCRETE BARRIERS OR RAMPED WITH AGGREGATE MATERIAL AT A 3:1 OR FLATTER SLOPE FROM THE EDGE OF PAVEMENT. WHEN RAMPING IS UTILIZED, TTC DRUMS SHALL BE POSITIONED ADJACENT TO THE EDGE OF THE WORK AREA ON THE TRAFFIC SIDE OF THE SLOPE. REFER TO MCDOT STD NO. TCP-108.01 FOR DETAILS.
- M. TRAFFIC SHALL NOT BE PERMITTED WITHIN TWO (2) FEET OF ANY EXCAVATION THAT RESULTS IN A VERTICAL DROP-OFF OF MORE THAN TWO (2) INCHES BUT NO MORE THAN FIVE (5) INCHES IN THE LEVEL OF PAVEMENT DURING NON-WORKING HOURS UNLESS EITHER RAMPED WITH AGGREGATE MATERIAL AT 3:1 OR FLATTER SLOPE, PROVIDED WITH AN ABUTTING WEDGE OF BITUMINOUS MATERIAL AT 3:1 OR FLATTER SLOPE OR PROTECTED BY TRAFFIC DRUMS.
- N. IN AREAS WHERE A DROP-OFF IN THE LEVEL OF PAVEMENT IS TWO (2) INCHES OR LESS, TRAFFIC MAY BE ALLOWED TO FREELY CROSS UNDER THE FOLLOWING CONDITIONS:
- 1. WHERE LONGITUDINAL PAVING JOINTS OF TWO (2) INCHES OR LESS ARE EXPOSED TO TRAFFIC, WARNING SIGNS SHALL BE POSTED INDICATING "UNEVEN PAVEMENT" (W8-II MOD.). THESE SIGNS SHOULD BE PLACED 250 FEET IN ADVANCE OF THE UNEVEN JOINT AND BE SPACED AT APPROPRIATE INTERVALS THROUGHOUT THE AREA OF THE UNEVEN JOINT.
- 2. WHERE LATERAL PAVING JOINTS OF TWO (2) INCHES OR LESS ARE EXPOSED TO TRAFFIC, A \*BUMP\* (W8-1) SIGN SHALL BE POSTED 100 FEET IN ADVANCE OF THE JOINT.
- 3. WHEN MILLED PAVEMENT IS LEFT EXPOSED TO TRAFFIC, A \*ROUGH ROAD (W8-8) OR \*GROOVED PAVEMENT\* (W8-8A) SIGN SHALL BE PLACED 250 FEET IN ADVANCE OF THE MILLED AREA.
- O. TEMPORARY TRAFFIC CONTROL SIGNS SHALL BE FLUORESCENT ORANGE HIGH PERFORMANCE WIDE ANGLE RETROREFLECTIVE SHEETING. PLACEMENT OF ALL SIGNS SHALL NOT INTERFERE WITH TRAVELED WAYS OR SIGHT DISTANCES OF ANY ROADWAY, STREET OR DRIVEWAY AS PER AASHTO POLICY ON GEOMETRIC DESIGN OF HIGHWAYS AND STREETS, LATEST EDITION.
- P. ALL EXISTING TRAFFIC CONTROL DEVICES THAT MUST BE REMOVED SHALL BE REPLACED IN THEIR PROPER LOCATION PRIOR TO THE COMPLETION OF THE PROJECT. COST FOR THE REPLACEMENT AND/OR REPAIR OF DEVICES DAMAGED AS A RESULT OF THE PROJECT SHALL BE ASSESSED TO THE CONTRACTOR.
- Q. ALL TRAFFIC CONTROL DEVICES SHALL CONFORM TO THE MOST RECENT EDITION OF THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD).
- R. THE IMPLEMENTATION DATE AND CONTINUANCE OF THIS PROJECT MAY BE ALTERED AT THE DISCRETION OF THE COUNTY'S INSPECTOR IN THE EVENT OF CONFLICTS WITH PREVIOUSLY APPROVED OR EMERGENCY ACTIVITIES.
- S. AT THE COMPLETION OF THE PERMITTED WORK ACTIVITY, CONDITIONS WITHIN THE PUBLIC SPACE SHALL BE FULLY RESTORED TO THOSE WHICH EXISTED PRIOR TO THE WORK ACTIVITY.
- T. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING ALL TEMPORARY TRAFFIC CONTROL DEVICES AT THE SITE.
- U. ANY CHANGES TO TEMPORARY TRAFFIC CONTROL PLANS SHALL BE MADE IN WRITING AND APPROVED BY THE MONTGOMERY COUNTY TRAFFIC ENGINEERING AND OPERATIONS DIVISION.
- V. ALL TTC DEVICES SHALL BE REMOVED AS SOON AS PRACTICAL WHEN THEY ARE NO LONGER NEEDED. WHEN WORK IS SUSPENDED FOR SHORT PERIODS OF TIME, TTC DEVICES THAT ARE NO LONGER APPROPRIATE SHALL BE REMOVED OR COVERED.

#### II. SPECIFIC TRAFFIC CONTROL REQUIREMENTS

- A. MAINTENANCE OF TRAFFIC
- 1. FLAGGERS SHALL BE USED AT THE DIRECTION OF THE COUNTY INSPECTOR.
- 2. FLAGGERS SHALL USE STOP/SLOW PADDLES TO DIRECT TRAFFIC.
- 3. FLAGGERS SHALL BE MARYLAND STATE HIGHWAY ADMINISTRATION OR AATSA APPROVED FLAGGERS.
- 4. RADIO COMMUNICATION SHALL BE REQUIRED BETWEEN FLAGGERS AT THE DISCRETION OF THE COUNTY INSPECTOR OR UNDER THE FOLLOWING CONDITIONS:
- a. IF THE FLAGGERS CANNOT SEE EACH OTHER.
- b. IF THE LANE CLOSURE EXCEEDS 200 FEET.
- 5. AT LEAST ONE 10 FOOT TRAVEL LANE SHALL BE AVAILABLE FOR TRAFFIC AT ALL TIMES.
- 6. PROVISION SHALL BE MADE FOR SAFE MAINTENANCE OF PEDESTRIAN AND BICYCLE TRAFFIC, SUBJECT TO THE APPROVAL OF THE COUNTY'S DPS INSPECTOR.

- B. INSTALLATION OF TRAFFIC CONTROL DEVICES
- 1. SIGNAGE, TRAFFIC DRUMS, AND ARROW PANELS SHALL BE PLACED IN ACCORDANCE WITH THE APPROPRIATE TYPICAL SPACING CHART AND AS LISTED ON THE TRAFFIC CONTROL PLANS.
- 2. ALL SIGNS AND TRAFFIC DRUMS SHALL BE FULLY REFLECTORIZED WITH HIGH INTENSITY, REFLECTIVE SHEETING AS PER THE MUTCD.
- 3. ALL WARNING SIGNS, UNLESS OTHERWISE SPECIFIED, SHALL BE A MINIMUM OF 48 " X 48", BLACK SYMBOL OR LEGEND ON ORANGE BACKGROUND AND DIAMOND SHAPED. PLACEMENT OF ALL SIGNS SHALL NOT INTERFERE WITH TRAVELED WAYS OR SIGHT DISTANCES OF ANY ROADWAY, STREET OR DRIVEWAY AS PER AASHTO POLICY ON GEOMETRIC DESIGN OF HIGHWAYS AND STREETS, LATEST EDITION. ALL WARNING SIGNS NOT APPLICABLE TO THE ACTUAL SITUATION SHALL BE REMOVED OR COVERED DURING NON-APPLICABLE PERIODS.
- 4. VARIABLE MESSAGE SIGNS (IF REQUIRED) SHALL BE PROVIDED TWO WEEKS BEFORE/AFTER AND DURING CONSTRUCTION. LOCATION AND MESSAGE TO BE DETERMINED BY ENGINEER.
- 5. DURING NIGHTTIME OPERATIONS, REFLECTORIZED TRAFFIC DRUMS SHOULD BE USED. HOWEVER, FOR EMERGENCY WORK ACTIVITIES, WHERE TRAFFIC DRUMS ARE NOT READILY AVAILABLE, REFLECTORIZED TRAFFIC CONES THAT ARE A MINIMUM OF TWENTY EIGHT (28) INCHES IN HEIGHT AND HAVING SIX (6) INCH AND FOUR (4) INCH REFLECTIVE COLLARS WITHIN THE TOP SIXTEEN (16) INCHES OF THE CONE MAY BE USED. ALL WORK AREAS LEFT UNATTENDED AT NIGHT SHALL BE DELINEATED WITH REFLECTORIZED TRAFFIC DRUMS.
- 6. CONTRACTOR SHALL EXCAVATE ONLY AS MUCH AS IS TO BE WORKED IN A DAY. IN CASE ANY EXCAVATED AREA IS LEFT OVERNIGHT, TEMPORARY CONCRETE BARRIERS SHALL BE PLACED SURROUNDING THAT AREA.
- 7. ALL PORTABLE SIGNS SHALL BE MOUNTED A MINIMUM OF ONE (I) FOOT ABOVE THE LEVEL OF THE ROADWAY, WITH HIGHER MOUNTING HEIGHTS DESIRABLE.
- 8. WHEN PAVEMENT MARKINGS HAVE BEEN OBLITERATED BY THE WORK ACTIVITY, THE PERMITTEE SHALL INSTALL ANY CRITICAL INTERIM PAVEMENT MARKINGS PRIOR TO THE END OF THE WORK DAY AS SPECIFIED BY THE COUNTY'S DPS INSPECTOR AND/OR THE DIVISION OF TRAFFIC ENGINEERING AND OPERATIONS.
- a. ON ROAD SECTIONS THAT ARE NOT SCHEDULED TO BE OVERLAID, ALL TEMPORARY PAVEMENT MARKINGS SHALL BE (REMOVABLE) DETOUR GRADE MARKING TAPE. ANY CONFLICTING MARKINGS WHICH NEED TO BE TEMPORARILY REMOVED ARE TO BE MASKED USING "3M REMOVABLE BLACK LANE MASK" OR AN APPROVED EQUAL.

#### III. CONTACT INFORMATION

- A. CONTACT THE MCDOT TRANSPORTATION MANAGEMENT CENTER 240-777-2100 BETWEEN 5:00 AM AND 11:00 PM TO INFORM THEM OF TEMPORARY LANE CLOSURES IN THE VICINITY OF ANY TRAFFIC SIGNALS.
- B. CONTACT TRAFFIC ENGINEERING DESIGN AND OPERATIONS SECTION AT 240–777–2190 (A MINIMUM OF ONE WEEK PRIOR) TO COORDINATE ANY MINOR TRAFFIC SIGNAL RELOCATIONS TO FACILITATE THIS WORK ACTIVITY. MAJOR SIGNAL RELOCATIONS SHALL BE COORDINATED A MINIMUM OF THIRTY (30) DAYS IN ADVANCE OF THE PROJECT. THE PERMITTEE SHALL CONTACT THE MONTGOMERY COUNTY TECHNICAL CENTER AT 301–279–1291 A MINIMUM OF 48 HOURS PRIOR TO BEGINNING WORK TO HAVE TRAFFIC SIGNAL EQUIPMENT MARKED.
- C. CONTACT TRAFFIC ENGINEERING STUDIED SECTION AT 240-777-2190 AT LEAST TEN (10) WORKING DAYS IN ADVANCE OF THE FINAL PAVING OPERATION TO SCHEDULE THE INSTALLATION OF PERMANENT PAVEMENT MARKINGS AND SIGNS.
- D. CONTACT MS. STELLA O. IGBINEDION AT 240-777-2190 TO REQUEST ANY FIELD ASSISTANCE BY THE MCDOT DIVISION OF TRAFFIC ENGINEERING AND OPERATION.

#### SEQUENCE OF CONSTRUCTION

#### GENERAL

DURING CONSTRUCTION, TRAFFIC SHALL BE MAINTAINED ON THE EXISTING ROADWAYS. THE CONSTRUCTION EFFORT SHALL BE DIRECTED TO COMPLETING THE SHARED USE PATH OF THE NORWOOD ROAD AS DESCRIBED BELOW, SIDEWALK RAMPS, INSTALLATION OF TRAFFIC SIGNAL AT THE INTERSECTION OF NORWOOD ROAD AND MD 108, INSTALLATION OF LIGHT POLES ALONG SHARED USE PATH, RELOCATION OF GAS LINE, AND INSTALLATION OF STORM DRAIN SYSTEM.

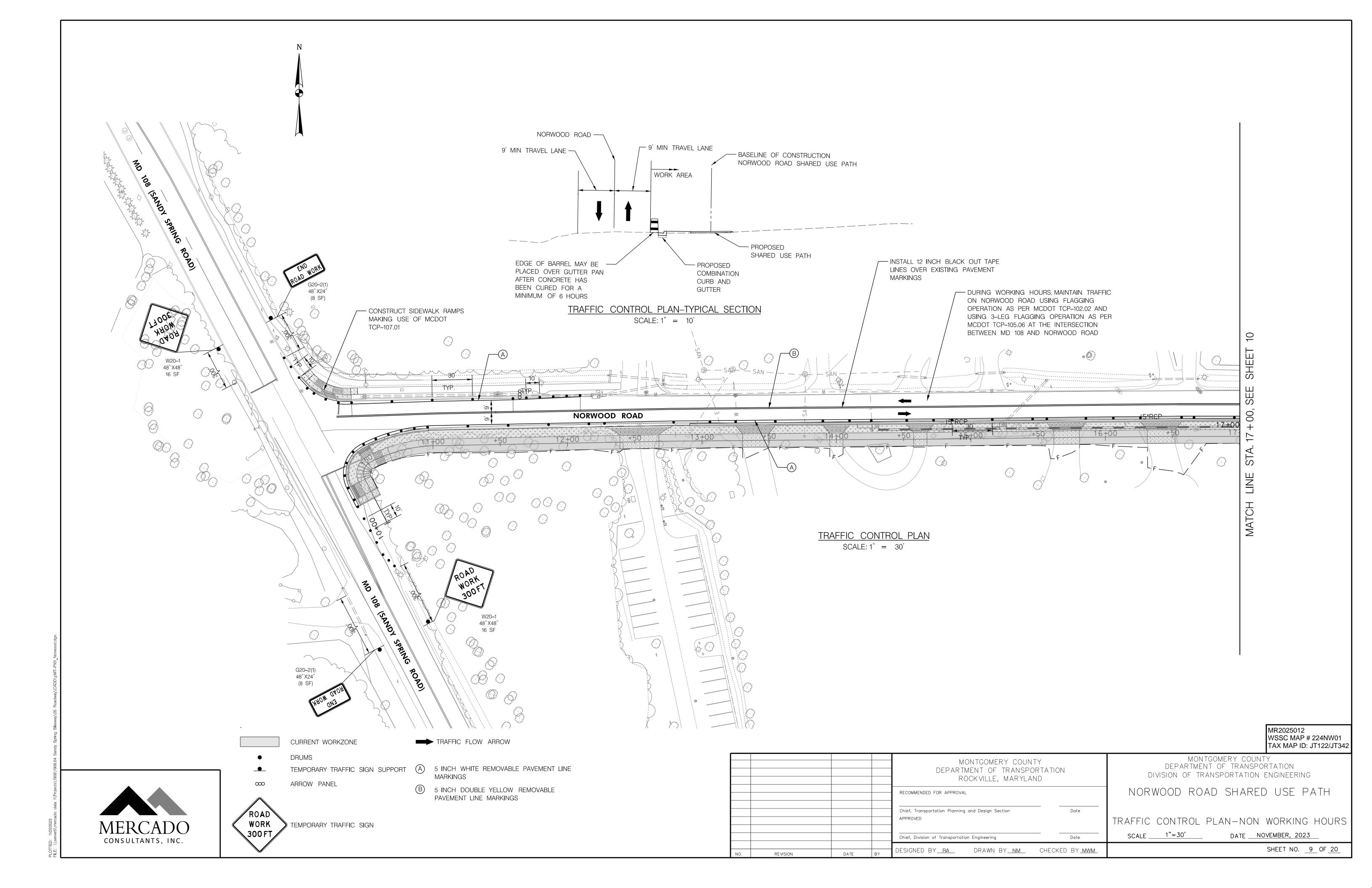
PRIOR TO THE COMMENCEMENT OF WORK, THE CONTRACTOR SHALL NOTIFY THE PROPERTY OWNERS AS TO THE DURATION OF THE PROPOSED WORK AS SPECIFIED IN THE SPECIAL PROVISIONS. THE CONTRACTOR CAN ALSO INFORM THE OWNER OF ANY EQUIPMENT THAT NEEDS TO BE RELOCATED.

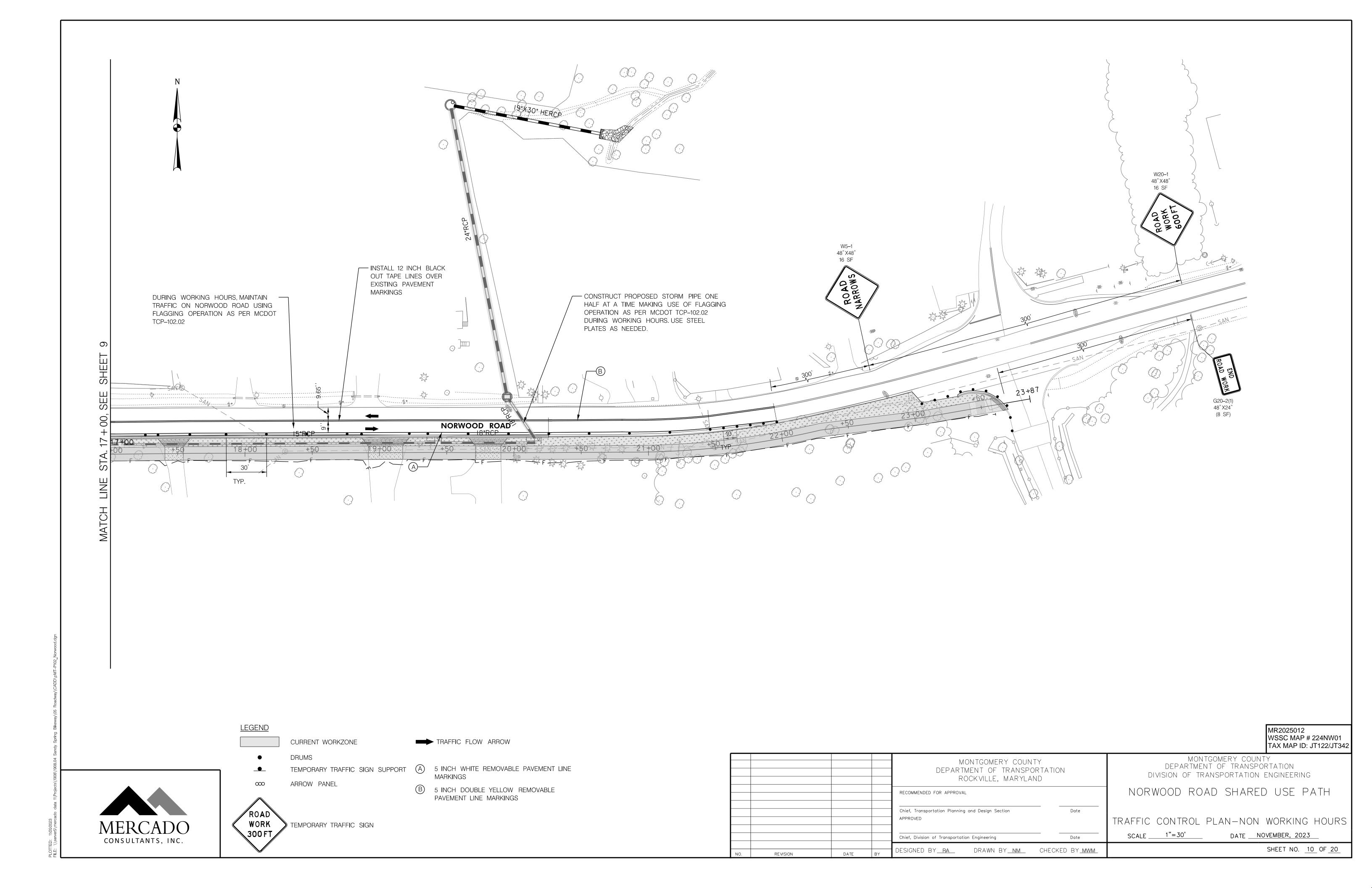
- 2. SEQUENCE OF CONSTRUCTION
- A. INSTALL ALL TEMPORARY SIGNING AND MARKING REQUIRED FOR THE INITIAL CONSTRUCTION WORK TO BE PERFORMED.
- B. PRIOR TO COMMENCING ANY WORK AT ANY GIVEN LOCATION, THE INSTALLATION OF ALL NECESSARY SEDIMENT CONTROL FACILITIES REQUIRED DURING CONSTRUCTION MUST BE COMPLETED AND HAVE THE APPROVAL OF THE EROSION AND SEDIMENT CONTROL INSPECTOR.
- C. MAKING USE OF FLAGGING OPERATION AS PER MCDOT TCP-102.02, AND TCP-105.06, MAINTAIN ONE LANE TWO WAY TRAFFIC ON NORWOOD ROAD DURING WORKING HOURS.
- D. CONSTRUCT NORWOOD SHARED USE PATH, RESIDENTIAL DRIVEWAYS, CURB AND GUTTER, SIDEWALK RAMPS AND STORM DRAIN SYSTEM AS SHOWN ON THE TCP PLANS. ALL CONSTRUCTION ACTIVITY THAT IMPACTS RESIDENTIAL PROPERTY MUST BE COORDINATED WITH THE PROPERTY OWNERS PRIOR TO THE START OF WORK, AND DONE IN ACCORDANCE WITH DIRECTIVES INCLUDED ELSEWHERE IN THE CONTRACT DOCUMENTS.
- E. COVER TEMPORARY SIGNS BEING USED DURING WORKING HOURS.
- F. INSTALL TEMPORARY CHANNELIZATION DEVICES AND TEMPORARY TRAFFIC SIGNS AS SHOWN ON THE TCP PLANS AS PER MCDOT TCP- 102.01 OR AS DIRECTED BY THE ENGINEER FOR MAINTENANCE OF TRAFFIC DURING NON-WORKING HOURS.
- G. RESTORE FLAGGING OPERATION AND APPLICABLE TEMPORARY SIGNS DURING WORKING HOURS.
- H. AT THE COMPLETION OF WORK, REMOVE ALL TEMPORARY TRAFFIC CONTROL DEVICES.

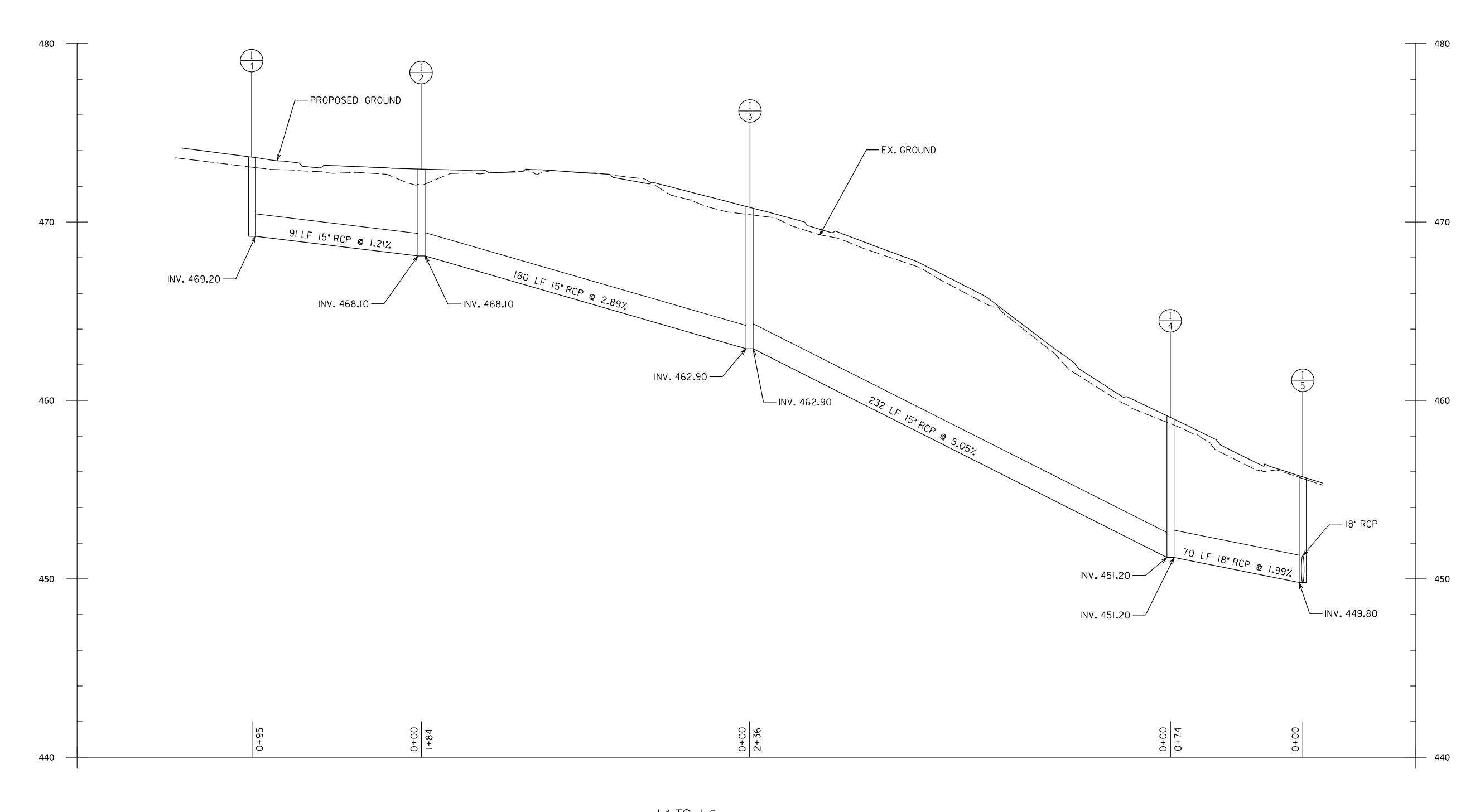
MR2025012 WSSC MAP # 224NW01 TAX MAP ID: JT122/JT342

				MONTGOMERY COUN DEPARTMENT OF TRANSPO ROCKVILLE, MARYLA	ORTATION	MONTGOMERY COUNTY DEPARTMENT OF TRANSPORTATION DIVISION OF TRANSPORTATION ENGINEERING
				RECOMMENDED FOR APPROVAL		NORWOOD ROAD SHARED USE PATH
				Chief, Transportation Planning and Design Section  APPROVED	Date	TRAFFIC CONTROL PLAN
				Chief, Division of Transportation Engineering	Date	SCALE NTS DATE NOVEMBER, 2023
NO.	REVISION	DATE	BY	DESIGNED BY <u>ra</u> DRAWN BY <u>nm</u>	CHECKED BY <u>MWM</u>	SHEET NO. <u>8</u> OF <u>20</u>









STORM DRAIN STRUCTURE SCHEDULE STRUCTURE NO. STRUCTURE TYPE STANDARD NO. INV. OUT NORTHING EASTING COG-15 MC 502.0I 53949I.68 I303957.73 443.36 MC 502.0I 539398.37 | 1303939.0I | 443.30 | 468.I0 | 468.I0 COG-IO 1-2 

 MC 502.0I
 5392I8.II
 I303902.50
 443.08
 462.90
 462.90

 MC 502.0I
 538987.22
 I303854.9I
 44I.9I
 45I.20
 45I.20

 MC 502.0I
 5389I4.73
 I303839.65
 44I.57
 449.80
 449.80

 COG-IO 1-3 COG-IO 1-4

COG-10

<u>I–1 TO I–5</u> SCALE: HORIZ. 1" = 30' VERT. 1" = 3'

	STORM	DRAIN	PIPE SCH	HEDUL	E
FROM	то	SIZE	MATERIAL	CLASS	LENGTH (FT.)
1-1	1-2	15"	RCP	IV	91
I-2	1-3	15"	RCP	IV	180
I-3	1-4	15"	RCP	IV	232
1-4	I-5	18"	RCP	IV	70

MONTGOMERY COUNTY

MR2025012	
WSSC MAP # 224NW01	
TAX MAP ID: JT122/JT342	

MONTGOMERY COUNTY DEPARTMENT OF TRANSPORTATION

SC0002

DIVISION OF TRANSPORTATION ENGINEERING NORWOOD ROAD SHARED USE PATH

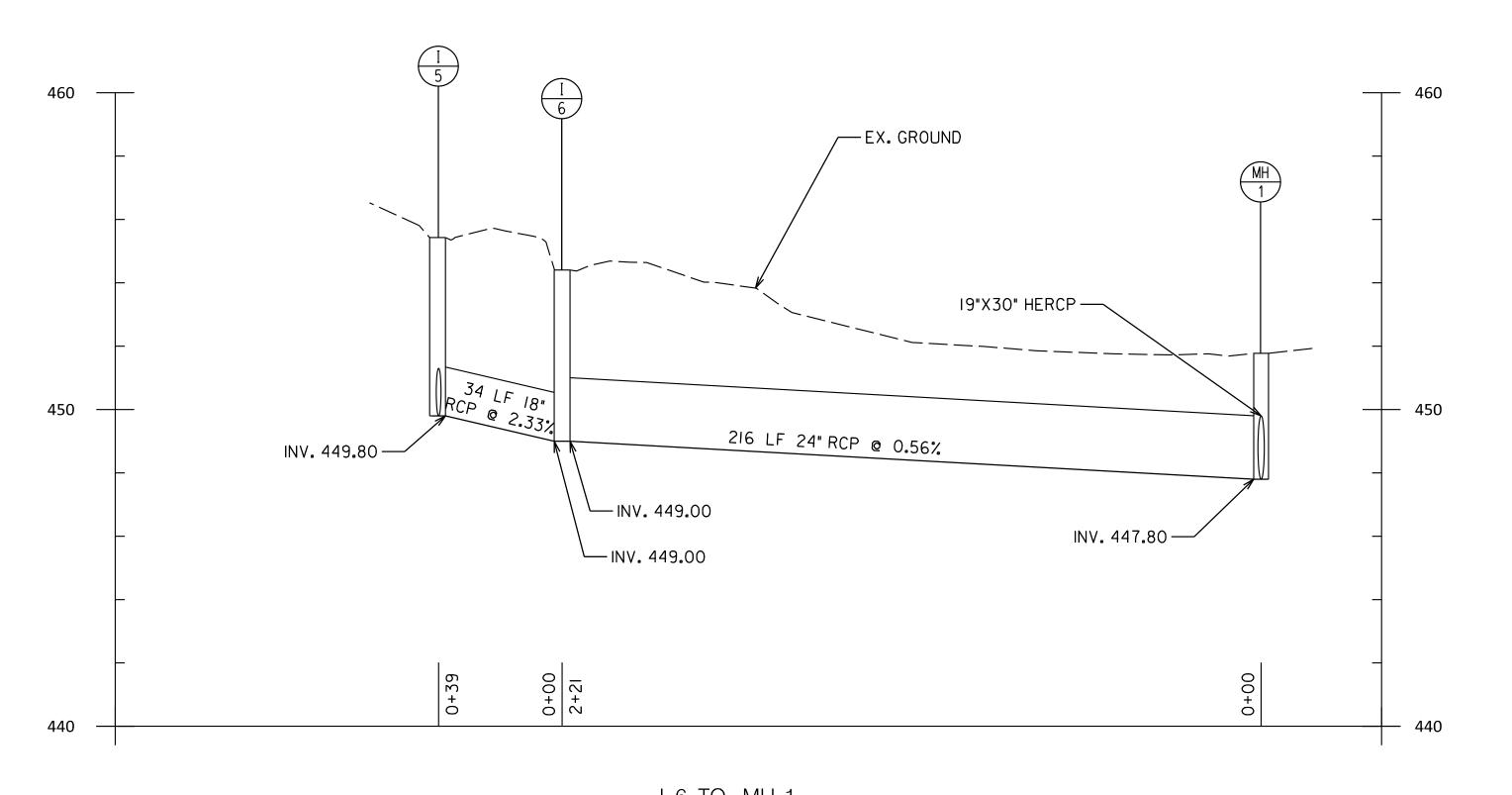
STORM DRAIN PROFILES-1

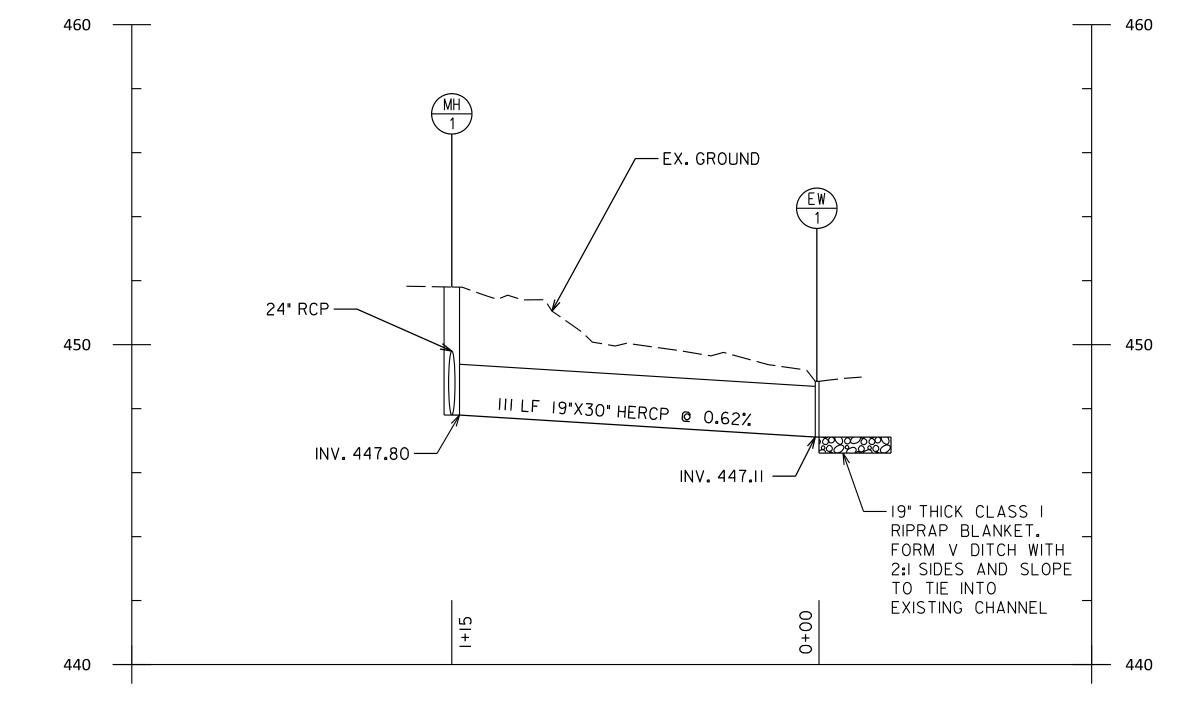
SCALE AS SHOWN DATE NOVEMBER, 2023 SHEET NO. 11 OF 20



1-5

DEPARTMENT OF TRANSPORTATION ROCKVILLE, MARYLAND RECOMMENDED FOR APPROVAL Chief, Transportation Planning and Design Section Date Chief, Division of Transportation Engineering DESIGNED BY RA DRAWN BY NM CHECKED BY MWM





MH-1 TO EW-1 SCALE: HORIZ. 1" = 30' VERT. 1" = 3'

<u>I-6 TO MH-1</u> SCALE: HORIZ. 1" = 30' VERT. 1" = 3'

STORM DRAIN STRUCTURE SCHEDULE									
STRUCTURE NO.	STRUCTURE TYPE	STANDARD NO.	NORTHING	EASTING	TOP ELEV.	INV. IN	INV. OUT		
I-5	COG-IO	MC 502.01	538914.73	1303839.65	441.57	449.80	449.80		
I-6	TYPE J DITCH INLET	MC 506.01	538929.96	1303877.88	441.44	449.00	449.00		
MH-I	MANHOLE 60 INCH DIA	MD 510.01	538926.39	1304098.64	441.18	447.80	447.80		
EW-I	END WALL	MD 355.01	538821.59	1304054.80	440.89	447.11			

STORM DRAIN PIPE SCHEDULE						
FROM	то	SIZE	MATERIAL	CLASS	LENGTH (FT.)	
1-5	1-6	18"	RCP	IV	34	
1-6	MH-I	24"	RCP	IV	216	
MH-I	EW-I	19"X30"	HERCP	IV	Ш	

MR2025012	
WSSC MAP # 224NW01	Г
WSSC MAP # 224NW01 TAX MAP ID: JT122/JT342	

MONTGOMERY COUNTY
DEPARTMENT OF TRANSPORTATION

SC0003

DIVISION OF TRANSPORTATION ENGINEERING

NORWOOD ROAD SHARED USE PATH

STORM DRAIN PROFILES-2

SHEET NO. 12 OF 20



MONTGOMERY COUNTY
DEPARTMENT OF TRANSPORTATION
ROCKVILLE, MARYLAND

RECOMMENDED FOR APPROVAL

Chief, Transportation Planning and Design Section
APPROVED

Chief, Division of Transportation Engineering
Date

SCALE AS SHOWN

DESIGNED BY BA DRAWN BY NM CHECKED BY MWM

# EROSION AND SEDIMENT CONTROL - GENERAL NOTES

#### STANDARD EROSION AND SEDIMENT CONTROL NOTES

- 1. THE PERMITTEE SHALL NOTIFY THE DEPARTMENT OF PERMITTING SERVICES (DPS) FORTY-EIGHT (48) HOURS BEFORE COMMENCING ANY LAND DISTURBING ACTIVITY AND, UNLESS WAIVED BY THE DEPARTMENT, SHALL BE REQUIRED TO HOLD A PRE-CONSTRUCTION MEETING BETWEEN THEM OR THEIR REPRESENTATIVE, THEIR ENGINEER AND AN AUTHORIZED REPRESENTATIVE OF THE DEPARTMENT.
- 2. THE PERMITTEE MUST OBTAIN INSPECTION AND APPROVAL BY DPS AT THE FOLLOWING POINTS: A. AT THE REQUIRED PRE-CONSTRUCTION MEETING.
- B. FOLLOWING INSTALLATION OF SEDIMENT CONTROL MEASURES AND PRIOR TO ANY OTHER LAND DISTURBING
- C. DURING THE INSTALLATION OF A SEDIMENT BASIN OR STORMWATER MANAGEMENT STRUCTURE AT THE REQUIRED INSPECTION POINTS (SEE INSPECTION CHECKLIST ON PLAN). NOTIFICATION PRIOR TO COMMENCING CONSTRUCTION IS MANDATORY.
- D. PRIOR TO REMOVAL OR MODIFICATION OF ANY SEDIMENT CONTROL STRUCTURE(S).
- E. PRIOR TO FINAL ACCEPTANCE.
- 3. THE PERMITTEE SHALL CONSTRUCT ALL EROSION AND SEDIMENT CONTROL MEASURES PER THE APPROVED PLAN AND CONSTRUCTION SEQUENCE, SHALL HAVE THEM INSPECTED AND APPROVED BY THE DEPARTMENT PRIOR TO BEGINNING ANY OTHER LAND DISTURBANCES, SHALL ENSURE THAT ALL RUNOFF FROM DISTURBED AREAS IS DIRECTED TO THE SEDIMENT CONTROL DEVICES, AND SHALL NOT REMOVE ANY EROSION OR SEDIMENT CONTROL MEASURE WITHOUT PRIOR PERMISSION FROM THE DEPARTMENT.
- 4. THE PERMITTEE SHALL PROTECT ALL POINTS OF CONSTRUCTION INGRESS AND EGRESS TO PREVENT THE DEPOSITION OF MATERIALS ONTO TRAVERSED PUBLIC THOROUGHFARE(S). ALL MATERIALS DEPOSITED ONTO PUBLIC THOROUGHFARE(S) SHALL BE REMOVED IMMEDIATELY.
- 5. THE PERMITTEE SHALL INSPECT PERIODICALLY AND MAINTAIN CONTINUOUSLY IN EFFECTIVE OPERATING CONDITION, ALL EROSION AND SEDIMENT CONTROL MEASURES UNTIL SUCH TIME AS THEY ARE REMOVED WITH PRIOR PERMISSION FROM THE DEPARTMENT. THE PERMITTEE IS RESPONSIBLE FOR IMMEDIATELY REPAIRING OR REPLACING ANY SEDIMENT CONTROL MEASURES WHICH HAVE BEEN DAMAGED OR REMOVED BY THE PERMITTEE OR ANY OTHER PERSON.
- 6. FOLLOWING INITIAL SOIL DISTURBANCE OR RE-DISTURBANCE, PERMANENT OR TEMPORARY STABILIZATION MUST BE COMPLETED WITHIN:
- A) THREE (3) CALENDAR DAYS AS TO THE SURFACE OF ALL PERIMETER DIKES, SWALES, DITCHES, PERIMETER SLOPES AND ALL SLOPES STEEPER THAN 3 HORIZONTAL TO 1 VERTICAL (3:1); AND
- B) SEVEN (7) CALENDAR DAYS AS TO ALL OTHER DISTURBED OR GRADED AREAS ON THE PROJECT SITE NOT UNDER ACTIVE GRADING.
- ALL AREAS DISTURBED OUTSIDE OF THE PERIMETER SEDIMENT CONTROL SYSTEM MUST BE MINIMIZED AND STABILIZED IMMEDIATELY. MAINTENANCE MUST BE PERFORMED AS NECESSARY TO ENSURE CONTINUED STABILIZATION.
- 7. THE PERMITTEE SHALL APPLY SOD, SEED, AND ANCHORED STRAW MULCH, OR OTHER APPROVED STABILIZATION MEASURES TO ALL DISTURBED AREAS WITHIN SEVEN (7) CALENDAR DAYS AFTER STRIPPING AND GRADING ACTIVITIES HAVE CEASED ON THAT AREA. MAINTENANCE SHALL BE PERFORMED AS NECESSARY TO ENSURE CONTINUED STABILIZATION. ACTIVE CONSTRUCTION AREAS SUCH AS BORROW OR STOCKPILE AREAS, ROADWAY IMPROVEMENTS, AND AREAS WITHIN FIFTY (50) FEET OF A BUILDING UNDER CONSTRUCTION MAY BE EXEMPT FROM THIS REQUIREMENT, PROVIDED THAT EROSION AND SEDIMENT CONTROL MEASURES ARE INSTALLED AND MAINTAINED TO PROTECT THOSE AREAS.
- 8. PRIOR TO REMOVAL OF SEDIMENT CONTROL MEASURES, THE PERMITTEE SHALL STABILIZE ALL CONTRIBUTORY DISTURBED AREAS WITH REQUIRED SOIL AMENDMENTS AND TOPSOIL, USING SOD OR AN APPROVED PERMANENT SEED MIXTURE AND AN APPROVED ANCHORED MULCH. WOOD FIBER MULCH MAY ONLY BE USED IN SEEDING SEASON WHEN THE SLOPE DOES NOT EXCEED 10% AND GRADING HAS BEEN DONE TO PROMOTE SHEET FLOW DRAINAGE. AREAS BROUGHT TO FINISHED GRADE DURING THE SEEDING SEASON SHALL BE PERMANENTLY STABILIZED WITHIN SEVEN (7) CALENDAR DAYS OF ESTABLISHMENT. WHEN PROPERTY IS BROUGHT TO FINISHED GRADE DURING THE MONTHS OF NOVEMBER THROUGH FEBRUARY, AND PERMANENT STABILIZATION IS FOUND TO BE IMPRACTICAL, AN APPROVED TEMPORARY SEED AND STRAW ANCHORED MULCH SHALL BE APPLIED TO DISTURBED AREAS. THE FINAL PERMANENT STABILIZATION OF SUCH PROPERTY SHALL BE COMPLETED PRIOR TO THE FOLLOWING APRIL 15.
- 9. THE SITE PERMIT, WORK, MATERIALS, APPROVED SC/SM PLANS, AND TEST REPORTS SHALL BE AVAILABLE AT THE SITE FOR INSPECTION BY DULY AUTHORIZED OFFICIALS OF MONTGOMERY COUNTY.
- 10. SURFACE DRAINAGE FLOWS OVER UNSTABILIZED CUT AND FILL SLOPES SHALL BE CONTROLLED BY EITHER PREVENTING DRAINAGE FLOWS FROM TRAVERSING THE SLOPES OR BY INSTALLING MECHANICAL DEVICES TO LOWER THE WATER DOWN SLOPE WITHOUT CAUSING EROSION. DIKES SHALL BE INSTALLED AND MAINTAINED AT THE TOP OF CUT OR FILL SLOPES UNTIL THE SLOPE AND DRAINAGE AREA TO IT ARE FULLY STABILIZED, AT WHICH TIME THEY MUST BE REMOVED AND FINAL GRADING DONE TO PROMOTE SHEET FLOW DRAINAGE. MECHANICAL DEVICES MUST BE PROVIDED AT POINTS OF CONCENTRATED FLOW WHERE EROSION IS LIKELY TO OCCUR.
- 11. PERMANENT SWALES OR OTHER POINTS OF CONCENTRATED WATER FLOW SHALL BE STABILIZED WITHIN 3 CALENDAR DAYS OF ESTABLISHMENT WITH SOD OR SEED WITH AN APPROVED EROSION CONTROL MATTING OR BY OTHER APPROVED STABILIZATION MEASURES.

- 12. SEDIMENT CONTROL DEVICES SHALL BE REMOVED, WITH PERMISSION OF THE DEPARTMENT, WITHIN THIRTY (30) CALENDAR DAYS FOLLOWING ESTABLISHMENT OF PERMANENT STABILIZATION IN ALL CONTRIBUTORY DRAINAGE AREAS. STORMWATER MANAGEMENT STRUCTURES USED TEMPORARILY FOR SEDIMENT CONTROL SHALL BE CONVERTED TO THE PERMANENT CONFIGURATION WITHIN THIS TIME PERIOD AS WELL.
- 13. NO PERMANENT CUT OR FILL SLOPE WITH A GRADIENT STEEPER THAN 3:1 WILL BE PERMITTED IN LAWN MAINTENANCE AREAS OR ON RESIDENTIAL LOTS. A SLOPE GRADIENT OF UP TO 2:1 WILL BE PERMITTED IN NONMAINTENANCE AREAS PROVIDED THAT THOSE AREAS ARE INDICATED ON THE EROSION AND SEDIMENT CONTROL PLAN WITH A LOW-MAINTENANCE GROUND COVER SPECIFIED FOR PERMANENT STABILIZATION. SLOPE GRADIENT STEEPER THAN 2:1 WILL NOT BE PERMITTED WITH VEGETATIVE STABILIZATION.
- 14. THE PERMITTEE SHALL INSTALL A SPLASH BLOCK AT THE BOTTOM OF EACH DOWNSPOUT UNLESS THE DOWNSPOUT IS CONNECTED BY A DRAIN LINE TO AN ACCEPTABLE OUTLET.
- 15. FOR FINISHED GRADING, THE PERMITTEE SHALL PROVIDE ADEQUATE GRADIENTS SO AS TO PREVENT WATER FROM STANDING ON THE SURFACE OF LAWNS MORE THAN TWENTY—FOUR (24) HOURS AFTER THE END OF A RAINFALL, EXCEPT IN DESIGNATED DRAINAGE COURSES AND SWALE FLOW AREAS, WHICH MAY DRAIN AS LONG AS FORTY—EIGHT (48) HOURS AFTER THE END OF A RAINFALL.
- 16. SEDIMENT TRAPS OR BASINS ARE NOT PERMITTED WITHIN 20 FEET OF A BUILDING WHICH IS EXISTING OR UNDER CONSTRUCTION. NO BUILDING MAY BE CONSTRUCTED WITHIN 20 FEET OF A SEDIMENT TRAP OR BASIN.
- 17. ALL INLETS IN NON-SUMP AREAS SHALL HAVE ASPHALT BERMS INSTALLED AT THE TIME OF BASE PAVING
- 18. THE SEDIMENT CONTROL INSPECTOR HAS THE OPTION OF REQUIRING ADDITIONAL SEDIMENT CONTROL MEASURES, AS DEEMED NECESSARY.
- 19. ALL TRAP ELEVATIONS ARE RELATIVE TO THE OUTLET ELEVATION, WHICH MUST BE ON EXISTING UNDISTURBED GROUND.
- 20. VEGETATIVE STABILIZATION SHALL BE PERFORMED IN ACCORDANCE WITH THE STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL.
- 21. SEDIMENT TRAP(S)/BASIN(S) SHALL BE CLEANED OUT AND RESTORED TO THE ORIGINAL DIMENSIONS WHEN SEDIMENT HAS ACCUMULATED TO THE POINT OF ONE-HALF (1/2) THE WET STORAGE DEPTH OF THE TRAP/BASIN (1/4 THE WET STORAGE DEPTH FOR ST-III) OR WHEN REQUIRED BY THE SEDIMENT CONTROL INSPECTOR.
- 22. SEDIMENT REMOVED FROM TRAPS/BASINS SHALL BE PLACED AND STABILIZED IN APPROVED AREAS, BUT NOT WITHIN A FLOODPLAIN.
- 23. ALL SEDIMENT BASINS AND TRAPS MUST BE SURROUNDED WITH A WELDED WIRE SAFETY FENCE. THE FENCE MUST BE AT LEAST 42 INCHES HIGH, HAVE POSTS SPACED NO FARTHER APART THAN 8 FEET, HAVE MESH OPENINGS NO GREATER THE TWO INCHES IN WIDTH AND FOUR INCHES IN HEIGHT, WITH A MINIMUM OF 14 GAUGE WIRE. SAFETY FENCE MUST BE MAINTAINED IN GOOD CONDITION AT ALL TIMES.
- 24. NO EXCAVATION IN THE AREAS OF EXISTING UTILITIES IS PERMITTED UNLESS THEIR LOCATION HAS BEEN DETERMINED. CALL "MISS UTILITY" AT 1-800-257-7777, 48 HOURS PRIOR TO THE START OF WORK.
- 25. OFF-SITE SPOIL OR BORROW AREAS MUST HAVE PRIOR APPROVAL BY DPS.
- 26. SEDIMENT TRAP/BASIN DEWATERING FOR CLEANOUT OR REPAIR MAY ONLY BE DONE WITH THE DPS INSPECTOR'S PERMISSION. THE INSPECTOR MUST APPROVE THE DEWATERING METHOD FOR EACH APPLICATION. THE FOLLOWING METHODS MAY BE CONSIDERED:
- A. PUMP DISCHARGE MAY BE DIRECTED TO ANOTHER ON—SITE SEDIMENT TRAP OR BASIN, PROVIDED IT IS OF SUFFICIENT VOLUME AND THE PUMP INTAKE IS FLOATED TO PREVENT AGITATION OR SUCTION OF DEPOSITED SEDIMENTS: OR
- B. THE PUMP INTAKE MAY UTILIZE A REMOVABLE PUMPING STATION AND MUST DISCHARGE INTO AN UNDISTURBED AREA THROUGH A NON-EROSIVE OUTLET; OR
- C. THE PUMP INTAKE MAY BE FLOATED AND DISCHARGE INTO A DIRT BAG (12 OZ. NON-WOVEN FABRIC), OR APPROVED EQUIVALENT, LOCATED IN AN UNDISTURBED BUFFER AREA.
- REMEMBER: DEWATERING OPERATION AND METHOD MUST HAVE PRIOR APPROVAL BY THE DPS INSPECTOR.
- 27. THE PERMITTEE MUST NOTIFY THE DEPARTMENT OF ALL UTILITY CONSTRUCTION ACTIVITIES WITHIN THE PERMITTED LIMITS OF DISTURBANCE PRIOR TO THE COMMENCEMENT OF THOSE ACTIVITIES.
- 28. TOPSOIL MUST BE APPLIED TO ALL PERVIOUS AREAS WITHIN THE LIMITS OF DISTURBANCE PRIOR TO PERMANENT STABILIZATION IN ACCORDANCE WITH MDE "STANDARDS AND SPECIFICATIONS FOR SOIL PREPARATION, TOPSOILING, AND SOIL AMENDMENTS".

## VEGETATIVE STABILIZATION PERMANENT AND TEMPORARY SEEDING. SODDING AND MULCHING

#### I. SITE PREPARATION

PERMANENT OR TEMPORARY STABILIZATION SHALL BE COMPLETED WITHIN (A.) SEVEN CALENDAR DAYS AS TO THE SURFACE OF ALL SEDIMENT CONTROL PRACTICES SUCH AS DIVERSIONS, GRADE STABILIZATION STRUCTURES, BERMS, DIKES, GRASSED WATERWAYS, SEDIMENT BASINS, PERIMETER SLOPES AND ALL SLOPES GREATER THAN 3 HORIZONTAL TO I VERTICAL (3:1) AND (B.) FOURTEEN DAYS AS TO ALL OTHER DISTURBED OR GRADED AREAS ON THE PROJECT SITE.

#### II. SEEDBED PREPARATION AND SEEDING APPLICATION

THE TOP LAYER OF SOIL SHALL BE LOOSENED, LIMED AND FERTILIZED BY RAKING, DISCING OR HARROWING OR OTHER ACCEPTABLE MEANS BEFORE SEEDING. FLAT AREAS AND SLOPES UP TO 3 TO I GRADE SHALL BE LOOSE AND FRIABLE TO A DEPTH OF AT LEAST 3 INCHES. SLOPES STEEPER THAN 3 TO I SHALL HAVE THE TOP I-3 INCHES OF SOIL LOOSE AND FRIABLE BEFORE SEEDING.

APPLY SEED UNIFORMLY WITH A CYCLONE SEEDER, DRILL CULTIPACKER, SEEDER OR HYDROSEEDER ON A FIRM MOIST SEEDBED.

#### III. SOIL AMENDMENTS

LIME AND FERTILIZE ACCORDING TO SOIL TESTS IN LIEU OF SOIL TEST APPLY THE FOLLOWING:

DOLOMITIC: 2 TONS PER ACRE OR 92 LBS./1000 (PERMANENT AND SODDING) SQ. FT. LIMESTONE: I TON PER ACRE OR 46 LB./1000 SQ. FT. (TEMPORARY)
FERTILIZER: IO-IO-IO OR EQUIVALENT AT 1000 LBS. PER ACRE OR 23 LBS. PER 1000 SQ. FT. (PERMANENT AND SODDING) IO-IO-IO OR EQUIVALENT AT 600 LBS. PER ACRE OR I5 LBS./1000 SQ. FT. (TEMPORARY)

#### IV. SEDIMENT CONTROL PRACTICE SEEDING

SEED: ANNUAL RYEGRASS 40 LBS./ACRE OR I.O LBS./IOOO SQ.FT. DATE: 3/I TO 5/I5 AND 8/I TO IO/I5 SEED: FOXTAIL MILLET 30 LBS./ACRE OR O.7 LBS./IOOO SQ.FT. DATE: 5/I6 TO 7/3I

#### V. TEMPORARY SEEDING: PER GROWING SEASON

SEED: ANNUAL RYEGRASS 40 LBS./ACRE OR I.O LBS./IOOO SQ.FT. DATE: 3/I TO 5/I5 AND 8/I TO IO/I5 SEED: FOXTAIL MILLET 30 LBS./ACRE OR 0.7 LBS./IOOO SQ.FT. DATE: 5/I6 TO 7/3I

#### VI. PERMANENT SEEDING

SEED: TALL FESCUE 60 LBS./ACRE OR 1.38 LBS./1000 SQ.FT. AND KENTUCKY BLUEGRASS 40 LBS./ ACRE OR 0.92 LBS./1000 SQ.FT.
DATE: 3/I TO 10/I5 IRRIGATION REQUIRED

#### VII. MULCHING

ALL SEEDINGS REQUIRE MULCHING. USE MULCH ONLY DURING NON-SEEDING DATES UNTIL SEEDING CAN BE DONE.

MULCH SHALL BE UNROTTED, UNCHOPPED SMALL GRAIN STRAW APPLIED AT A RATE OF 1/2 TO 2 TONS/ACRE OR 70-90 LBS./1000 SQ.FT. (2 BALES). MULCH MATERIALS SHALL BE RELATIVELY FREE OF ALL KINDS OF WEEDBEDS AND SHALL BE FREE OF PROHIBITED NOXIOUS WEEDS. SPREAD MULCH UNIFORMLY MECHANICALLY OR BY HAND. MULCH ANCHORING SHALL BE ACCOMPLISHED IMMEDIATELY AFTER MULCH PLACEMENT TO MINIMIZE LOSS BY WIND OR WATER. THIS MAY BE DONE BY MULCH NETTINGS, MULCH ANCHORING TOLL, PEG AND TWINE, OR LIQUID MULCH BINDERS.

LIQUID MULCH BINDER SHALL BE RAPID CURING APPLIED AT A RATE OF 200 GAL./ACRE OR 5 GAL./IOOO SQ.FT. SLOPES 8 FT.OR MORE HIGH USE 348 GAL/ACRE OR 8 GAL./IOOO SQ.FT.

#### VIII. SODDING

CLASS OF TURFGRASS SOD SHALL BE MARYLAND OR VIRGINIA STATE CERTIFIED, OR MARYLAND OR VIRGINIA STATE APPROVED SOD. SOD SHALL BE HARVESTED, DELIVERED AND INSTALLED WITHIN A PERIOD OF 36 HOURS. SOD IS TO BE LAID WITH THE LONG EDGES PARALLEL TO THE CONTOUR WITH STAGGERED JOINTS WITH ALL ENDS TIGHTLY ABUTTING AND NOT OVER LAPPING. SOD SHALL BE ROLLED AND THOROUGHLY WATERED WITHIN 8 HOURS OF INSTALLATION. DAILY WATERING TO MAINTAIN 4 INCH DEPTH OF MOISTURE FOR THE FIRST WEEK IS REQUIRED IN THE ABSENCE OF RAINFALL. SOD IS NOT TO BE APPLIED ON FROZEN GROUND.

#### IX. MAINTENANCE

DESIGNED BY<u>RA</u>

A. IRRIGATION: WHEN SOIL MOISTURE BECOMES DEFICIENT, IRRIGATE TO PREVENT LOSS OF STAND OF PROTECTIVE VEGETATION.

B. REPAIRS: IF STAND IS INADEQUATE FOR EROSION CONTROL, OVERSEED AND FERTILIZE USING HALF OF THE RATES
ORIGINALLY APPLIED. IF STAND IS OVER 60% DAMAGED, REESTABLISH FOLLOWING ORIGINAL RATES AND PROCEDURES.

MR2025012

WSSC MAP # 224NW01

TAX MAP ID: JT122/JT342

SC0004

SHEET NO. <u>13</u> OF <u>20</u>

NOTES: USE OF THIS INFORMATION DOES NOT PRECLUDE MEETING ALL THE REQUIREMENTS OF THE 2011 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL VEGETATIVE PRACTICES.

MONTGOMERY COUNTY MONTGOMERY COUNTY DEPARTMENT OF TRANSPORTATION DEPARTMENT OF TRANSPORTATION DIVISION OF TRANSPORTATION ENGINEERING ROCKVILLE, MARYLAND NORWOOD ROAD SHARED USE PATH RECOMMENDED FOR APPROVAL Chief, Transportation Planning and Design Section EROSION AND SEDIMENT APPROVED CONTROL PLAN NOTES 1"=30' DATE <u>NOVEMBER</u>, 2023 SCALE \_\_ Chief, Division of Transportation Engineering

DRAWN BY<u>NM</u> CHECKED BY<u>MWM</u>



CONTRACTOR CANNOT BEGIN CONSTRUCTION UNTIL CLEAR LEGAL ACCESS HAS BEEN GRANTED TO ENTIRE LOD. TEMPORARY CONSTRUCTION EASEMENTS MUST BE SUBMITTED TO SEDIMENT CONTROL INSPECTOR PRIOR TO PRECONSTRUCTION MEETING.

#### EROSION AND SEDIMENT CONTROL SEQUENCE OF CONSTRUCTION:

- I. PRIOR TO CLEARING TREES, INSTALLING SEDIMENT CONTROL MEASURES, OR GRADING, A PRECONSTRUCTION MEETING MUST BE CONDUCTED ON-SITE WITH THE MONTGOMERY COUNTY DEPARTMENT OF PERMITTING SERVICES (MCDPS) SEDIMENT CONTROL INSPECTOR (240) 777-03II (48 HOURS NOTICE) AND THE MNCPPC, PLANNING DEPARTMENT, PLANS ENFORCEMENT INSPECTOR (30I) 495-4550 (48 HOURS NOTICE), THE OWNERS REPRESENTATIVE, AND THE SITE ENGINEER. IN ORDER FOR THE MEETING TO OCCUR, THE APPLICANT MUST PROVIDE ONE PAPER SET OF APPROVED SEDIMENT CONTROL PLANS TO MCDPS SEDIMENT CONTROL INSPECTOR AT THE PRECONSTRUCTION MEETING. IF NO PLANS ARE PROVIDED, THE MEETING SHALL NOT OCCUR AND WILL NEED TO BE RESCHEDULED PRIOR TO COMMENCING ANY WORK.
- 2. THE LIMITS OF DISTURBANCE MUST BE FIELD MARKED PRIOR TO CLEARING OF TREES, INSTALLATION OF SEDIMENT CONTROL MEASURES, CONSTRUCTION, OR OTHER LAND DISTURBING ACTIVITIES.
- 3. THE PERMITTEE MUST OBTAIN WRITTEN APPROVAL FROM THE MNCPPC INSPECTOR, CERTIFYING THAT THE LIMITS OF DISTURBANCE AND TREE PROTECTION MEASURES ARE CORRECTLY MARKED AND INSTALLED PRIOR TO COMMENCING ANY CLEARING.
- 4. CLEAR AND GRADE FOR INSTALLATION OF SEDIMENT CONTROL DEVICES.
- 5. INSTALL ALL TREE PROTECTION FENCE, FILTER LOG, AND STABILIZED CONSTRUCTION ENTRANCES AS SHOWN ON THE PLANS. ONCE THESE SEDIMENT CONTROL DEVICES ARE INSTALLED, THE PERMITTEE MUST OBTAIN WRITTEN APPROVAL FROM THE MCDPS INSPECTOR BEFORE PROCEEDING WITH ANY ADDITIONAL CLEARING, GRUBBING OR GRADING.
- 6. INSTALL CLASS IRIPRAP AT OUTFALL OF HW-I, I-6, MH-I, HW-I, AND ALL STORM DRAIN PIPES BETWEEN I-6 TO HW-I.
- 7. INSTALL INLET PROTECTION SIP 2.1.
- 8. INSTALL SILT FENCE SF 2.4, SF 2.5, SF 2.6, AND SF 2.7. CONSTRUCT SHARED USE PATH BETWEEN 20+26 TO 23+67.
- 9. INSTALL I-3, I-4, AND I-5 ALONG WITH ALL STORM DRAIN PIPES, CURB AND GUTTER, GRASS BUFFER, AND DRIVEWAY APRONS BETWEEN I-3 TO I-5. INSTALL STORM DRAIN BETWEEN I-5 AND I-6.
- IO. INSTALL SILT FENCE SF 2.1, SF 2.2, AND SF 2.3. INSTALL INLET PROTECTION CIP 2.1, CIP 2.2, AND CIP 2.3.
- II. INSTALL SHARED USE PATH BETWEEN I-3 AND I-5 (STA. 17+10 TO 20+26).
- 12. INSTALL I-I AND I-2 ALONG WITH ALL STORM DRAIN PIPES, CURB AND GUTTER, GRASS BUFFER, AND DRIVEWAY APRONS BETWEEN I-I TO I-3. INSTALL STORM DRAIN BETWEEN I-5 AND I-6. FILL EXISTING CMP STORM DRAIN CROSSING NORWOOD ROAD AT I-2 WITH FLOWABLE FILL CONCRETE, EXCAVATE AND REMOVE 5' FROM DOWNSTREAM END OF EXISTING CMP, AND BURY CMP OUTFALL WITH SOIL TO MATCH EXISTING EMBANKMENT SLOPE ALONG NORWOOD ROAD.
- 13. INSTALL SILT FENCE SF 1.4, SF 1.5, SF 1.6, AND SF 1.7. INSTALL INLET PROECTION CIP 1.1 AND CIP 1.2.
- 14. INSTALL SHARED USE PATH BETWEEN 1-1 AND 1-3 (STA. 14+25 TO 17+10).
- 15. INSTALL SILT FENCE SF I.I, SF I.2, AND SF I.3.
- 16. INSTALL ALL CURB AND GUTTER, GRASS BUFFER, AND DRIVEWAY APRONS FROM 12+91 TO 14+25.
- 17. CONSTRUCT REMAINING SHARED USE PATH FROM 10+21 TO 14+25.
- 18. INSTALL NEW TRAFFIC SIGNAL POLES AT NORWOOD ROAD AND OLNEY SANDY SPRING ROAD AND COMPLETE CONSTRUCTION OF INTERSECTION.
- 19. STABILIZE ALL REMAINING DISTURBED AREAS.
- 20.REMOVE SEDIMENT CONTROL DEVICES AFTER WRITTEN APPROVAL OF ENGINEER AND MCDPS INSPECTOR.



MR2025012 WSSC MAP # 224NW01 TAX MAP ID: JT122/JT342

SC0005

				MONTGOMERY COUNTY DEPARTMENT OF TRANSPORTATION ROCKVILLE, MARYLAND			
				RECOMMENDED FOR APPROVAL		1	
				Chief, Transportation Planning and Design Section  APPROVED	Date		
				Chief, Division of Transportation Engineering	Date	S	
NO.	REVISION	DATE	BY	DESIGNED BY <u>ra</u> DRAWN BY <u>nm</u> CHECKED	BY <u>MWM</u>		

DEPARTMENT OF TRANSPORTATION
DIVISION OF TRANSPORTATION ENGINEERING

MONTGOMERY COUNTY

NORWOOD ROAD SHARED USE PATH

EROSION AND SEDIMENT
SEQUENCE OF CONSTRUCTION
SCALE 1"=30' DATE NOVEMBER, 2023

SHEET NO. <u>14</u> OF <u>20</u>

INLET PROTECTION (IP)								
ID NO.	STATION	QUATITY	DRAINAGE AREA (AC)					
CIP 1.1	STA. 14+24, LT	1 EA	0.7					
CIP 1.2	STA. 15+19, LT	1 EA	0.47					

STABILIZED CONSTRUCTION ENTRANCE (SCE)								
ID NO.	QUATITY	STATION						
SCE 1.1	1 EA	STA. 10+53						
SCE 1.2	1 EA	STA. 14+98						

	SILT FENCE			
ID NO.	QUATITY	STATION		
SF 1.1	47 LF	STA. 12+78, LT		
SF 1.2	30 LF	STA. 13+59, LT		
SF 1.3	5 LF	STA. 14+10, LT		
SF 1.4	20 LF	STA. 14+32, LT		
SF 1.5	42 LF	STA. 14+73, LT		
SF 1.6	34 LF	STA. 15+88, LT		
SF 1.7	42 LF	STA. 16+57, LT		

	12-INC	H FILTER LOG
ID NO.	QUATITY	STATION
FL 1.1	35 LF	STA. 10+20, RT
FL 1.2	228 LF	STA. 10+50, LT

TREE PROTECTION FENCE (TPF)			
ID NO.	QUATITY	STATION	
TPF 1.1	207 LF	STA. 10+20, RT	

#### <u>LEGEND</u>

LIMITS OF DISTURBANCE

SILT FENCE

STABALIZED CONSTRUCTION ENTRANCE

STANDARD INLET PROTECTION

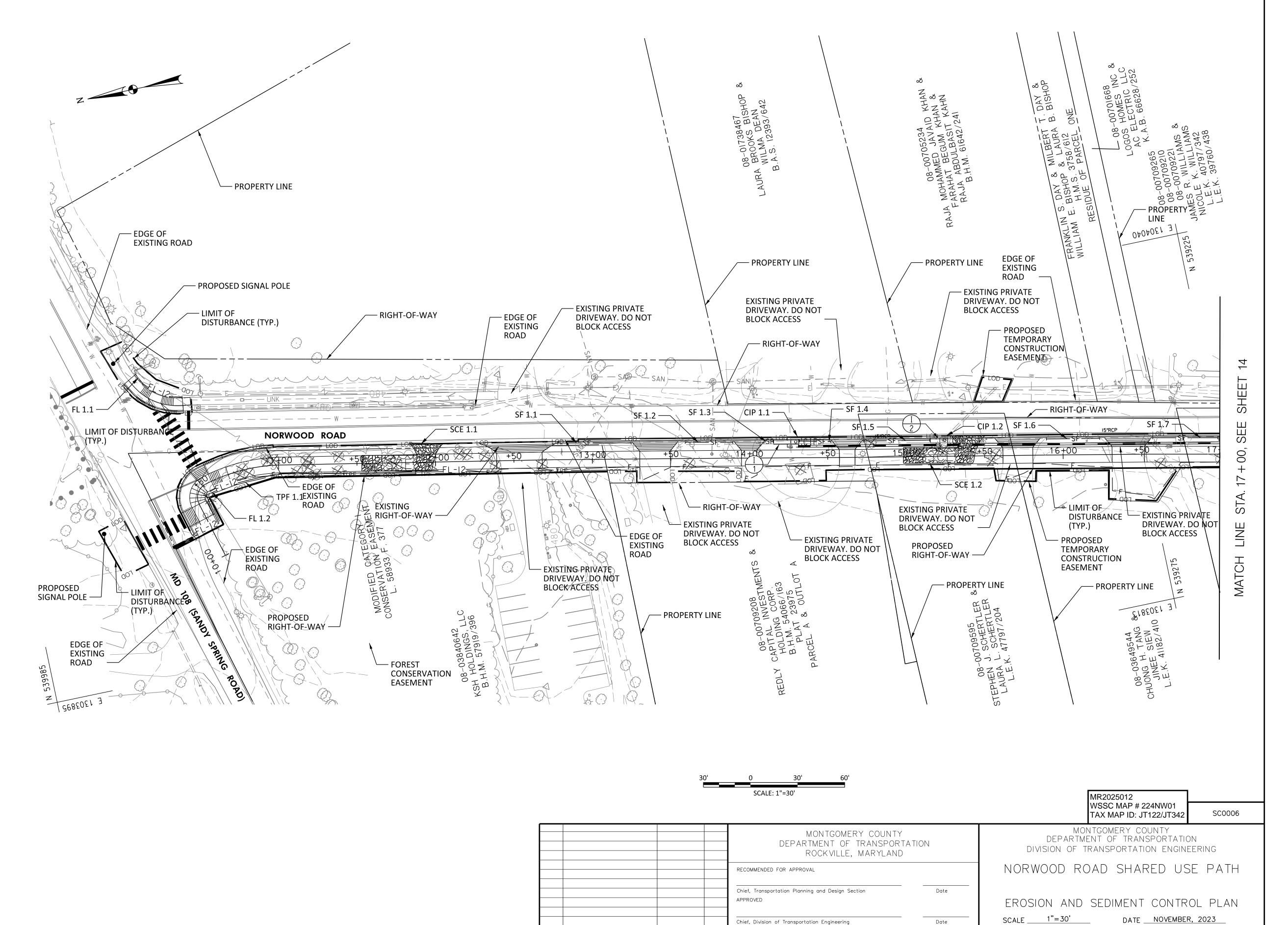
TREE TO BE REMOVED

CURB INLET PROTECTION

TPF TREE PROTECTION FENCE

FL-I2— 12" FILTER LOG

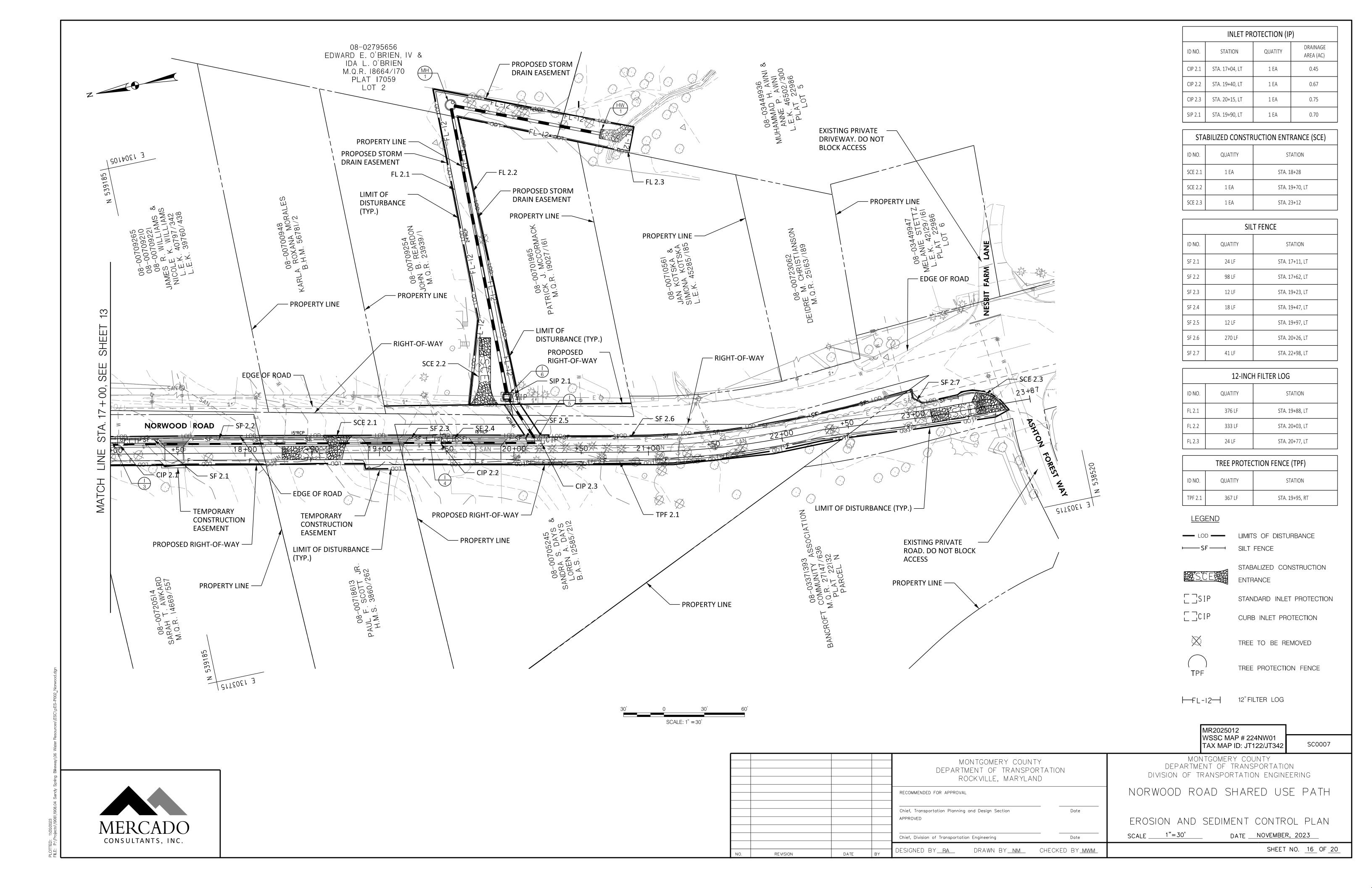




DESIGNED BY<u>ra</u>

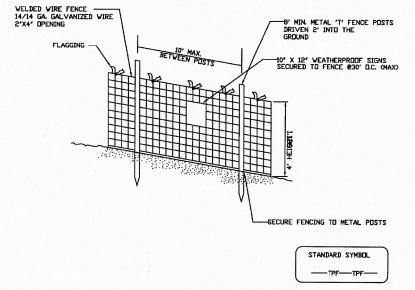
DRAWN BY<u>NM</u> CHECKED BY<u>MWM</u>

SHEET NO. <u>15</u> OF <u>20</u>



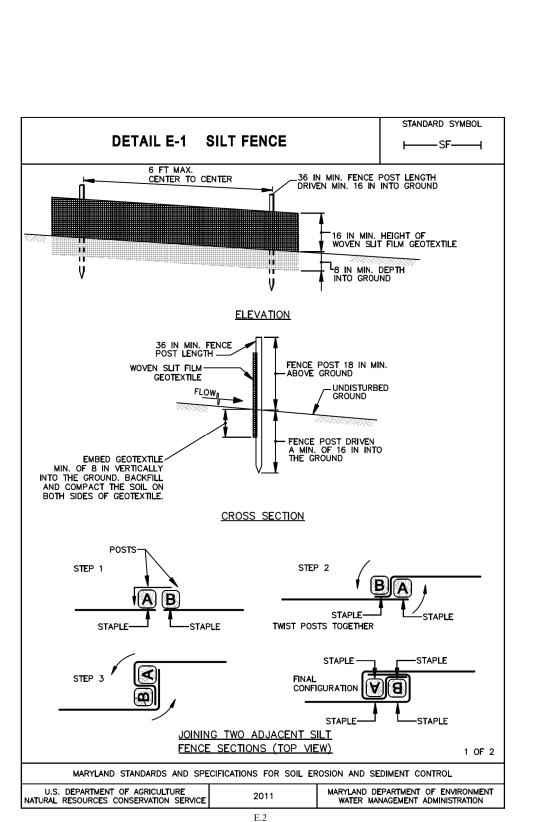
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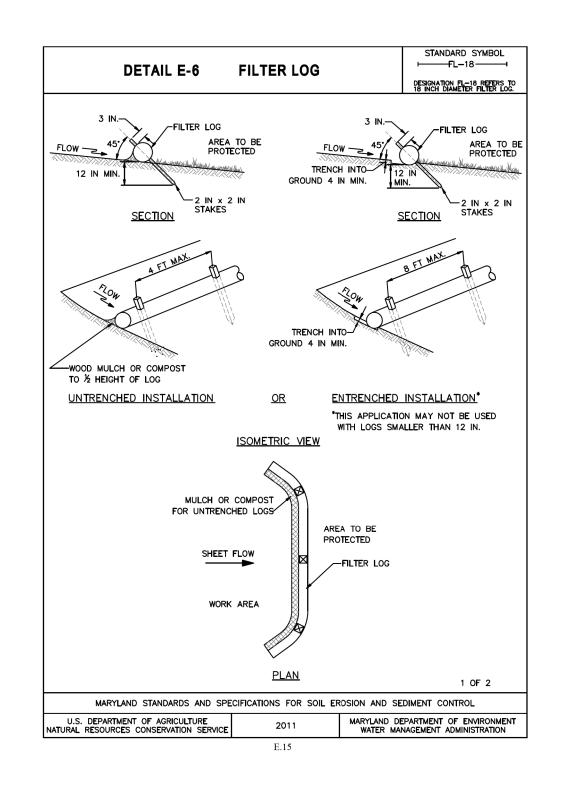
Tree Protection Fence Detail



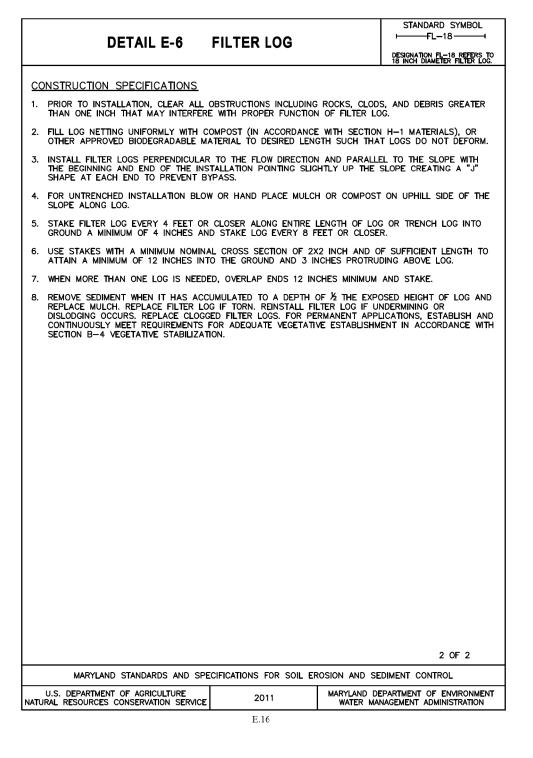
- 1. Practice may be combined with sediment control
- 2. Location and limits of fencing should be
- coordinated in field with arborist.
- Boundaries of protection area should be staked prior to installing protective device.
- Root damage should be avoided.
- Protection signage is required. Fencing shall be maintained throughout
- construction.

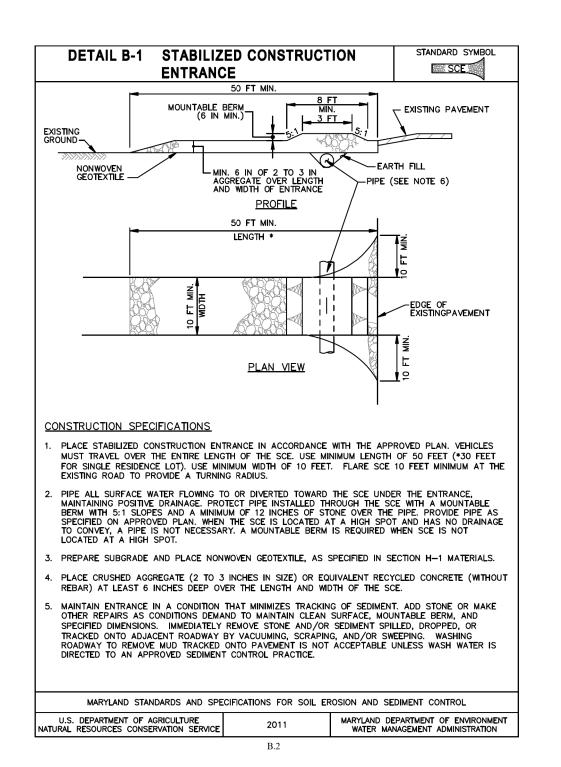
Montgomery County Planning Department • Market M-NCPPC MontgomeryPlanning.org





	DETAIL E-1 SILT FENCE	STANDARD SYMBOL
<u>co</u>	NSTRUCTION SPECIFICATIONS	
1.	USE WOOD POSTS $1\%$ X $1\%$ $\pm$ $1\%$ Inch (MINIMUM) SQUARE CUT OF SOUND (AN ALTERNATIVE TO WOODEN POST USE STANDARD "T" OR "U" SECTION STELLESS THAN 1 POUND PER LINEAR FOOT.	QUALITY HARDWOOD. AS EEL POSTS WEIGHING NOT
2.	USE 36 INCH MINIMUM POSTS DRIVEN 16 INCH MINIMUM INTO GROUND NO MO	ORE THAN 6 FEET APART.
3.	USE WOVEN SLIT FILM GEOTEXTILE AS SPECIFIED IN SECTION H-1 MATERIALS SECURELY TO UPSLOPE SIDE OF FENCE POSTS WITH WIRE TIES OR STAPLES MID-SECTION.	
4.	PROVIDE MANUFACTURER CERTIFICATION TO THE AUTHORIZED REPRESENTATIV INSPECTION/ENFORCEMENT AUTHORITY SHOWING THAT THE GEOTEXTILE USED REQUIREMENTS IN SECTION H-1 MATERIALS.	
5.	EMBED GEOTEXTILE A MINIMUM OF 8 INCHES VERTICALLY INTO THE GROUND. THE SOIL ON BOTH SIDES OF FABRIC.	BACKFILL AND COMPACT
6.	WHERE TWO SECTIONS OF GEOTEXTILE ADJOIN: OVERLAP, TWIST, AND STAPLE ACCORDANCE WITH THIS DETAIL.	TO POST IN
7.	EXTEND BOTH ENDS OF THE SILT FENCE A MINIMUM OF FIVE HORIZONTAL FE 45 DEGREES TO THE MAIN FENCE ALIGNMENT TO PREVENT RUNOFF FROM GC OF THE SILT FENCE.	
8.	REMOVE ACCUMULATED SEDIMENT AND DEBRIS WHEN BULGES DEVELOP IN SI SEDIMENT REACHES 25% OF FENCE HEIGHT. REPLACE GEOTEXTILE IF TORN. II REINSTALL FENCE.	
		2 OF 2
	MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SE	
	J.S. DEPARTMENT OF AGRICULTURE 2011 MARYLAND DI	EPARTMENT OF ENVIRONMENT NAGEMENT ADMINISTRATION





MONTGOMERY COUNTY DEPARTMENT OF TRANSPORTATION ROCKVILLE, MARYLAND RECOMMENDED FOR APPROVAL Chief, Transportation Planning and Design Section Date Chief, Division of Transportation Engineering DESIGNED BY<u>ra</u> DRAWN BY<u>nm</u> CHECKED BY<u>mwm</u> MR2025012 WSSC MAP # 224NW01 TAX MAP ID: JT122/JT342

SC0008

NORWOOD ROAD SHARED USE PATH EROSION AND SEDIMENT

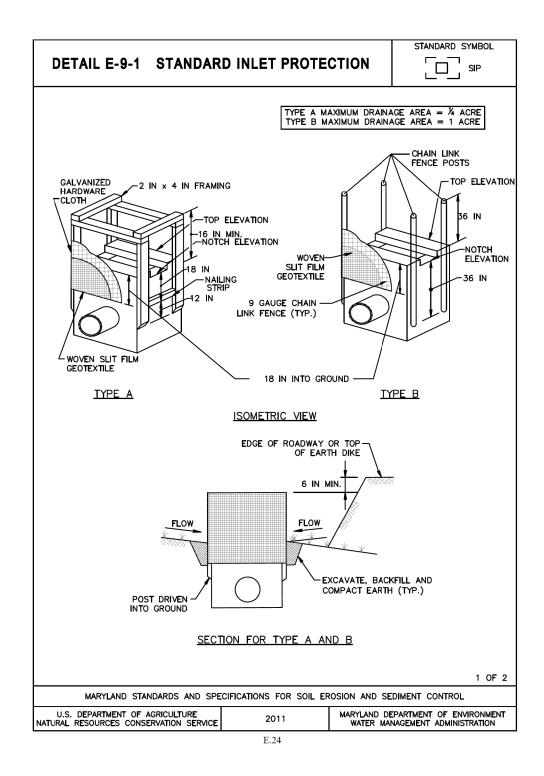
MONTGOMERY COUNTY DEPARTMENT OF TRANSPORTATION

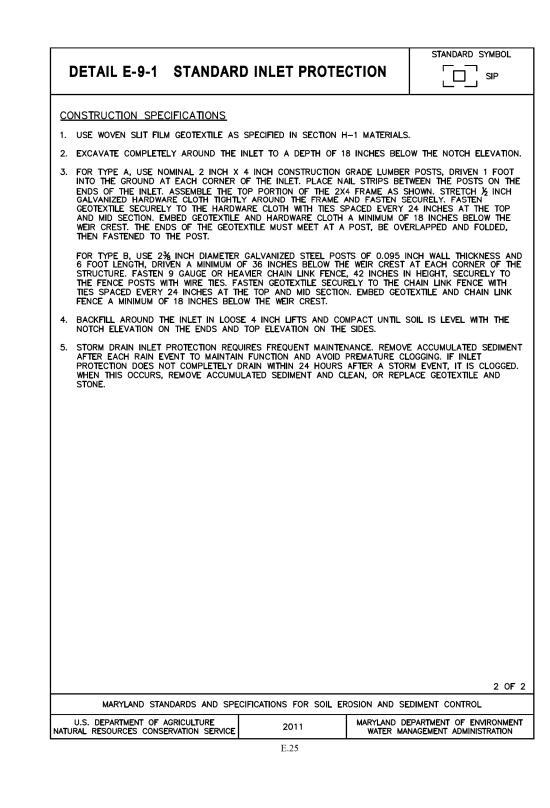
DIVISION OF TRANSPORTATION ENGINEERING

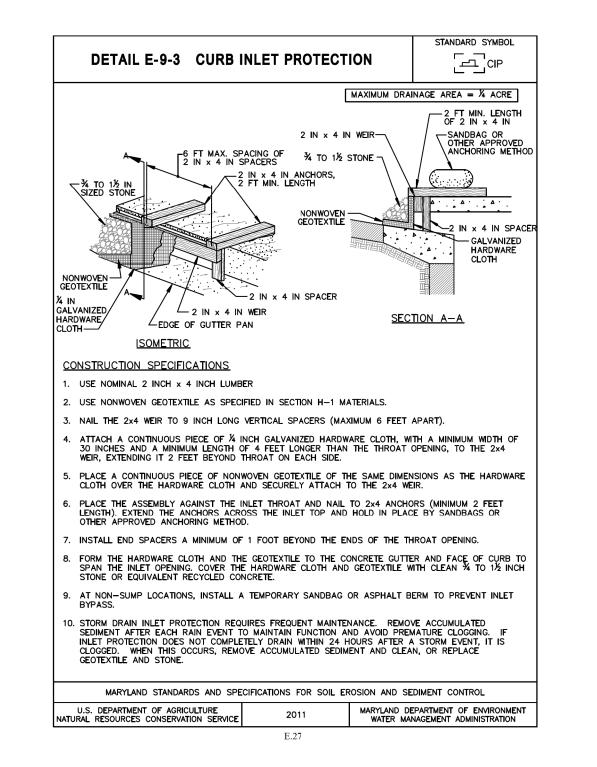
STANDARD DETAILS DATE <u>NOVEMBER, 2023</u> SCALE \_\_\_\_\_1"=30'

SHEET NO. <u>17</u> OF <u>20</u>









MERCADO CONSULTANTS, INC.

MONTGOMERY COUNTY
DEPARTMENT OF TRANSPORTATION
ROCKVILLE, MARYLAND

RECOMMENDED FOR APPROVAL

Chief, Transportation Planning and Design Section
Date
APPROVED

Chief, Division of Transportation Engineering
Date

DESIGNED BY RA DRAWN BY NM CHECKED BY MWM

MR2025012
WSSC MAP # 224NW01
TAX MAP ID: JT122/JT342

MONTGOMERY COUNTY
DEPARTMENT OF TRANSPORTATION

DIVISION OF TRANSPORTATION ENGINEERING

NORWOOD ROAD SHARED USE PATH

FROSION AND SEDIMENT

EROSION AND SEDIMENT
STANDARD DETAILS
SCALE 1"=30' DATE NOVEMBER, 2023

SHEET NO. <u>18</u> OF <u>20</u>

SC0009

M

#### I. GENERAL

THIS PROJECT INVOLVES THE RECONSTRUCTION OF AN EXISTING TRAFFIC SIGNAL AT THE INTERSECTION OF MD 108 (OLNEY SANDY SPRING ROAD) AND NORWOOD ROAD IN MONTGOMERY COUNTY.

THE MODIFICATIONS INCLUDE THE ADDITION OF APS PUSH BUTTONS, PEDESTRIAN SIGNAL HEADS, ADVANCED VIDEO DETECTION, AND THE TRANSFER OF SIGNAL HEADS FROM SPAN WIRE TO MAST ARM POLES.

MD 108 IS ASSUMED TO RUN IN AN EAST-WEST DIRECTION.

#### II. INTERSECTION OPERATION

THE INTERSECTION IS TO OPERATE IN A NEMA 6-PHASE, FULLY-ACTUATED MODE, WITH THE MD 108 (OLNEY SANDY SPRING ROAD) APPROACHES OPERATING CONCURRENTLY AND THE NORWOOD ROAD APPROACH OPERATING SPLIT, PERMISSIVE LEFT TURN PHASING WILL BE PROVIDED FOR THE WESTBOUND MD 108 APPROACH, AN ALTERNATIVE PEDESTRIAN PHASE IS PROVIDED ALONG THE WEST LEG OF MD 108.

#### III. CONTROLLER REQUIREMENTS

INSTALL A FULLY-ACTUATED FOUR-PHASE CONTROLLER WITH THREE (3) FOUR CHANNEL, TIME-DELAY-OUTPUT LOOP DETECTOR AMPLIFIERS RACK MOUNT, INTERSECTION MONITOR WITH BATTERY BACK-UP FOR PHONE DROP, NIC MODULE, RACK DETECTOR SYSTEM, AND ASSOCIATED HARNESSES HOUSED IN A NEMA SIZE '5' BASE MOUNTED CABINET.

#### GENERAL NOTES

- 1. FOR FINAL PAVEMENT MARKINGS, REFER TO THE PAVEMENT MARKING PLANS, AS APPLICABLE; OTHER THAN THOSE DETAILED ON THE PLAN. ALL PAVEMENT MARKINGS SHALL BE INSTALLED IN ACCORDANCE WITH ADMINISTRATION STANDARDS.
- 2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR TERMINATING ALL SIGNAL CABLE TO THE APPROPRIATE TERMINALS AND PROPERLY LABELING EACH CABLE.
- 3. 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 THE APPROPRIATE 800 SERIES STANDARD PLATES. THE CONTRACTOR SHALL VERIFY ULTIMATE GRADES PRIOR TO THE INSTALLATION OF ALL SIGNAL EQUIPMENT.
- 4. FOR MONTGOMERY COUNTY PROJECTS, THE CONTRACTOR SHALL BE RESPONSIBLE FOR DELIVERING THE VIDEO INTERFACE EQUIPMENT TO THE MONTGOMERY COUNTY SIGNAL SHOP, COUNTY FORCES WILL COMPLETE THE RETROFIT WORK IN THE EXISTING CABINET.
- 5. DISCONNECTING AND SPLICING OF INTERCONNECT CABLE SHALL BE PERFORMED BY ????? FORCES. THE CONTRACTOR SHALL RUN THE INTERCONNECT CABLE INTO THE BASE OF EACH CABINET AND PROPERLY TAG THE CABLE. CONTACT MR./MS. ??? AT (XXX) XXX-XXXX SEVENTY-TWO HOURS IN ADVANCE OF INTENDED WORK.
- 6. 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.
- 7. FOR DEVELOPER JOBS, NOTE: CONTROLLER AND CABINET SHALL BE PURCHASED FROM ECONOLITE AND DELIVERED TO S.H.A. SIGNAL SHOP FOR WIRING AND TESTING A MINIMUM OF THREE (3) WEEKS PRIOR TO INSTALLATION. CONTACT MR. ED RODENHIZER (410) 787-7650 TO COORDINATE THIS EFFORT.
- 8. THE CONTRACTOR SHALL MAINTAIN THE CONTINUOUS OPERATION OF ALL INTERCONNECT, VEHICULAR, PEDESTRIAN DETECTORS, 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.
- 9. DURING CONSTRUCTION, PROPOSED SIGNAL EQUIPMENT SHALL NOT BLOCK EXISTING SIGNAL EQUIPMENT
- 10. ALL UNUSED CABLE SHALL BE REMOVED AND DISPOSED OF BY THE CONTRACTOR

#### PROJECT CONTACT LIST

#### DISTRICT 3

VACANT

ASSISTANT DISTRICT ENGINEER - TRAFFIC 301-513-7404

MR. MARK LOEFFLER

DISTRICT UTILITY ENGINEER

301-513-7350

MR. GREGORY EDWARDS
ASSISTANT DISTRICT ENGINEER - MAINTENANCE

MS. AMY ANDREWS

301-513-7304

ASSISTANT DISTRICT ENGINEER - CONSTRUCTION

(ADMIN.) 301-513-7300

301-513-7336

(FIELD)

VACANT
ASSISTANT DISTRICT ENGINEER - CONSTRUCTION

#### OFFICE OF TRAFFIC AND SAFETY

REBECCA LICHTENSTEIN, P.E. CHIEF, TRAFFIC OPERATIONS DIVISION

410-787-7630

MR. ANTOINE YATES
ASSISTANT DIVISION CHIEF, TRAFFIC OPERATIONS DIVISIONS
410-787-7625

MR. MICHAEL BASSO

SECTION CHIEF, SIGNAL OPERATIONS SECTION 410-787-7657

MR. TODD JONES SIGN SHOP MANAGER

410-787-7676

MR. MICHAEL BOYLE WAREHOUSE SECTION CHIEF 410-787-7673

# 100LE DESIGN

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

#### FOLLIPMENT LIST A.

**EQUIPMENT LIST** 

			EQUIPMENT LIST A.
ITEM NUMBER	Q	UANTITY	DESCRIPTION
	2	EΑ	THREE-PHASE FULLY-ACTUATED CONTROLLER WITH VIDEO INTERFACE EQUIPMENT ( 1-3 CAMERAS), 3 FOUR-CHANNEL LOOP DETECTOR AMPLIFIERS AND INTERSECTION MONITOR HOUSED IN A NEMA SIZE 5 BASE MOUNTED CABINET
			SHEET ALUMINUM SIGNS TO CONSIST OF (POLE MOUNT)
	2	EΑ	R10-3(1) SIGN (9 IN. X 15 IN) TO READ "PUSH BUTTON TO CROSS SANDY SPRING ROAD"
	2	EΑ	R10-3(1) SIGN (9 IN. X 15 IN) TO READ "PUSH BUTTON TO CROSS NORWOOD ROAD"
	1	EΑ	M1-5(1) SIGN (78 IN. X 36 IN) - MAST ARM MOUNT
	2	EΑ	R10-11b(1) SIGN (36 IN. X 36 IN) - MAST ARM MOUNT
	2	EΑ	D-3(2) SIGN (VAR. X 16 IN) - MAST ARM MOUNT
	1	EΑ	D-3(1) SIGN (VAR. X 16 IN) - MAST ARM MOUNT
			EQUIPMENT LIST B.
ITEM NUMBER	Q	UANTITY	DESCRIPTION
120500	1	LS	MAINTENANCE OF TRAFFIC

NUMBER	QU	ANTITY	DESCRIPTION
120500	1	LS	MAINTENANCE OF TRAFFIC
801004	11	CY	CONCRETE FOR SIGNAL FOUNDATION
114280	135	LF	REMOVAL OF EXISTING PERMANENT PAVEMENT MARKING LINES
549617	202	LF	24 INCH WHITE PREFORMED THERMOPLASTIC PAVEMENT MARKING LINES
549603	714	LF	5 INCH YELLOW PREFORMED THERMOPLASTIC PAVEMENT MARKING LINES
860284	21	EΑ	12 INCH LED VEHICULAR TRAFFIC SIGNAL HEAD SECTION
865300	1	EΑ	2-WIRE APS CENTRAL CONTROL UNIT
865210	4	EΑ	AUDIBLE/TACTILE PEDESTRIAN PUSHBUTTON STATION & SIGNS
818004	4	EΑ	10 FOOT BREAKAWAY PEDESTAL POLE
807500	1	EΑ	EMBEDDED METERED SERVICE PEDESTAL
816105	1	EΑ	TRAFFIC SIGNAL CABINET NEMA SIZE 5
860285	4	EΑ	16 INCH LED COUNTDOWN PEDESTRIAN SIGNAL HEAD
873003	1	EΑ	REMOVE AND DISPOSE OF EXISTING SIGNAL EQUIPMENT (PER SIGNALIZED INTERSECTION LOCATION)
818162	1	EΑ	MAST ARM POLE AND 50' MAST ARM, ANY 'T' DIMENSION, FOUNDATION AND GROUND ROD
818164	1	EΑ	MAST ARM POLE AND 60' MAST ARM, ANY 'T' DIMENSION, FOUNDATION AND GROUND ROD
816010	3	EΑ	VIDEO DETECTION CAMERA TO CONTROLLER & CABLE UP TO 500 FT
805118	258	LF	4 INCH SCHEDULE 80 RIGID PVC CONDUIT - BORED
805125	149	LF	2 INCH SCHEDULE 80 RIGID PVC CONDUIT - TRENCHED
805135	31	LF	3 INCH SCHEDULE 80 RIGID PVC CONDUIT - TRENCHED
805140	119	LF	4 INCH SCHEDULE 80 RIGID PVC CONDUIT - TRENCHED
801616	29	SF	INSTALL OVERHEAD OR GROUND MOUNTED SIGN (INCLUDING ALL HARDWARE)
802501	557	LF	NO. 6 AWG STRANDED BARE COPPER GROUND WIRE
861105	377	LF	ELECTRICAL CABLE - 2 CONDUCTOR (NO. 14 AWG)
861107	891	LF	ELECTRICAL CABLE - 5 CONDUCTOR (NO. 14 AWG)
861108	508	LF	ELECTRICAL CABLE - 7 CONDUCTOR (NO. 14 AWG)
803013	1	EΑ	FURNISH AND INSTALL SIGN/LUMINAIRE SUPPORTS
837001	6	EΑ	GROUND ROD - 3/4 INCH DIAMETER X 10 FOOT LENGTH
			EQUIPMENT LIST C.

# EQUIPMENT LIST C. EQUIPMENT TO BE SALVAGED AND RETURNED TO SHA

ALL REMOVED MATERIALS ARE TO BECOME THE PROPERTY OF THE CONTRACTOR

NUMBER QUANTITY DESCRIPTION

#### MAINTENANCE OF TRAFFIC NOTE

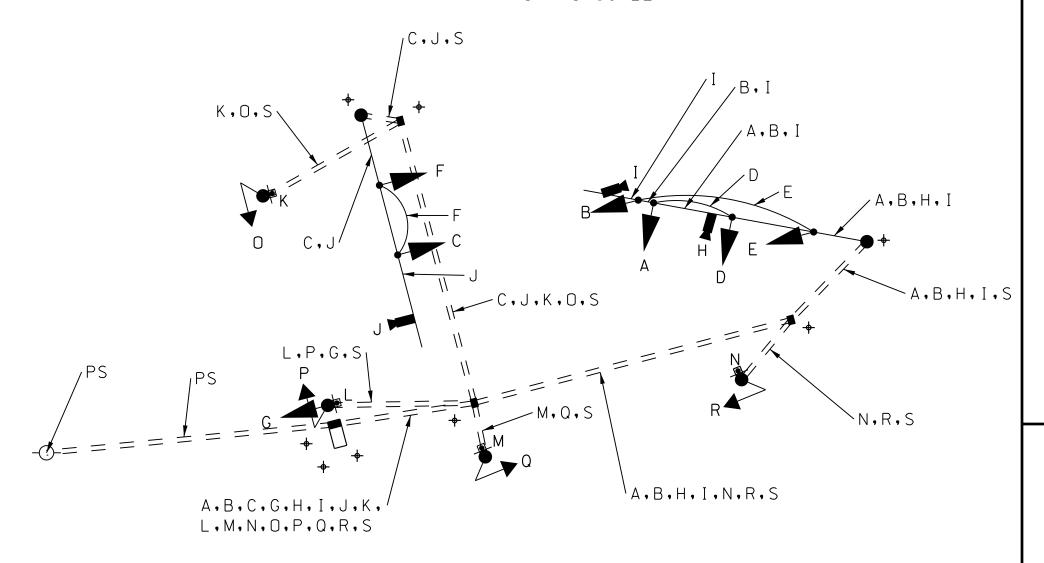
MAINTENANCE OF TRAFFIC WILL BE HANDLED BY THE CONTRACTOR UTILIZING THE FOLLOWING STANDARD PLATES FOR TRAFFIC CONTROL:

STANDARD NO. 104.03-01 (MULTI-LANE UNDIVIDED SHOULDER WORK) STANDARD NO. 104.04-01 (MULTI-LANE DIVIDED SHOULDER WORK)

ADDITIONAL TRAFFIC CONTROL STANDARDS MAY BE USED AS DIRECTED BY THE ENGINEER.

#### R Y G RYG Y PHASE 2 AND 6 DW WK PED CLEARANCE DW DW | FL/DW| FL/DW| 2 AND 6 CHANGE R DW DW DW DW PHASE 4 DW DW PED CLEARANCE | FL/DW| FL/DW| DW 4 CHANGE DW DW DW DW FLASHING FL /R | FL /R | FL /Y | DARK | DARK | DARK | DARK | OPERATION

#### WIRING DIAGRAM NOT TO SCALE



#### WIRING KEY

7 CONDUCTOR ELECTRICAL CABLE (NO. 14 AWG)

5 CONDUCTOR ELECTRICAL CABLE
(NO. 14 AWG)

1P-BASED VIDEO DETECTION CABLE (3/C #18)

5 CONDUCTOR ELECTRICAL CABLE
(NO. 14 AWG) PEDESTRIAN SIGNAL HEADS

2 CONDUCTOR ELECTRICAL CABLE

(NO. 14 AWG) APS PUSHBUTTONS

MR2025012



GROUND ROD

SANDY SPRING BIKEWAY FACILITY PLANNING MD 108 (OLNEY SANDY SPRING ROAD) AT NORWOOD ROAD TRAFFIC SIGNAL

WSSC MAP # 224NW01

TAX MAP ID: JT122/JT342

# DESIGNE DRAWN CHECKE

THIS DOCUMENT/PLAN IS DRAFT AND SUBJECT TO CHANGE. IT IS AN INTERAGENCY/INTRA-AGENCY DELIBERATIVE COMMUNICATION THAT IS NOT FOR PUBLIC DISCLOSURE UNDER MD. GENERAL PROVISIONS CODE ANN. § 4-344 (MARYLAND PUBLIC INFORMATION ACT).

CONTRACT NO. < CONTRACT NO. SCALE N.T.S. ADVERTISED DATE COUNTY MONTGOMERY DESIGNED BY \_\_\_ CB CB LOGMILE <LOGMILE> DRAWN BY CHECKED BY \_\_\_\_ MJ <TIMS NO> MDE/PRD \_\_\_\_ <00-AA-0000> <TOD NO> SHEET NO. 19 OF 20 <TS NO> XX 1

**GENERAL INFORMATION SHEET** 

