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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	HARED USE PATH PROFILES						
8	RAFFIC CONTROL PLAN NOTES							
9	TRAFFIC CONTROL PLAN-1							
10	TRAFFIC CONTROL PLAN-2							
11	STORM DRAIN PROFILES-1	SC0002						
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13	EROSION AND SEDIMENT CONTROL NOTES	SC0004						
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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

Printed Name

To be completed by the consultant and placed on the firs	<b>UIREMENTS TABLE</b> t sheet of the Sediment Control / Stormwater Managemen all projects.
Exempt: Yes $\square$ No $\boxed{X}$ 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	39,184square feet
Shade Trees Required	Shade Trees Proposed to be Planted
15	0
<b>Fee in Lieu</b> (Trees Required – Trees Planted) x \$250	\$3,750
Required Number	er of Shade Trees
Area (sq. ft.) of the Limits of Disturbance	s Number of Shade Trees Required
FROMTO16,0006,0018,0008,00112,00012,00114,00014,00140,000	3 6 9 12 15
If the square footage of the limits of d number of shade trees required must be c	
(Number of Square Feet in Limits	of Disturbance $\div$ 40,000) × 15
EXEMPTI	ON CATEGORIES:
<ul> <li>55-5(a) any activity that is subject to Article II of Chapter 22A;</li> <li>55-5(b) any commercial logging or timber harvesting operation with an approved exemption from Article II of Chapter 22A;</li> <li>55-5(f) any activity conducted by the County Parks Department;</li> <li>55-5(g) routine or emergency maintenance of an existing stormwater management facility, including an existing access road, if the person performing the</li> </ul>	<ul> <li>maintenance has obtained all required permits;</li> <li>55-5(h) any stream restoration project if the person performing the work has obtained all necessary permits;</li> <li>55-5(i) cutting or clearing any tree to comply with applicable provisions of any federal, state, or local law governing safety of dams;</li> <li>OTHER: Specify per Section 55-5 of the Code.</li> </ul>

LIMIT OF WORK CONTR. NO 502313 SHARED USE PATH

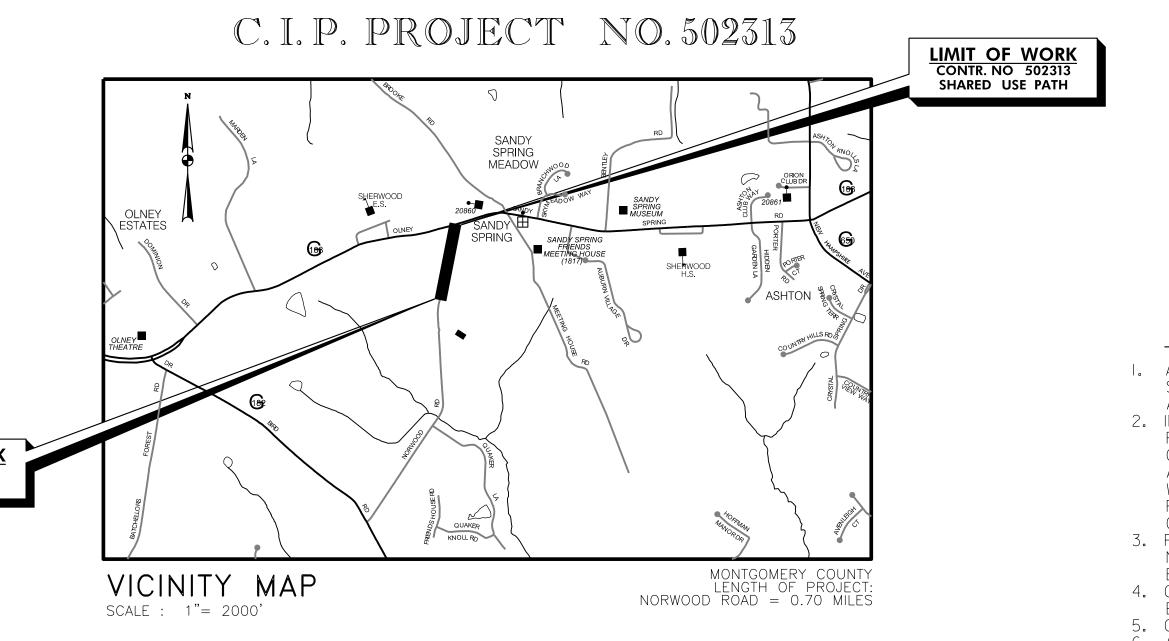
> I/We hereby certify that all clearing, grading, construction, and or development will be done pursuant to this plan and that any responsible personnel involved in the construction project will have a Certificate of Attendance at a Department of Natural Resources approved training program for the control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

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.



# MONTGOMERY COUNTY DEPARTMENT OF TRANSPORTATION

NORWOOD ROAD SHARED USE PATH



## <u>OWNER'S/DEVELOPER'S CERTIFICATION</u>

DATE

JOSE THOMMANA CHIEF, DIVISION OF TRANSPORTATION ENGINEERING

## DESIGN CERTIFICATION

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.

SIGNATURE

MICHAEL MERCADO, P.E. PRINTED NAME AND TITLE

DATE

38931 REGISTRATION NUMBER

			_		RECOMMENDED FOR APPROVAL
NO.	REVISION	DATE	BY	PROFESSIONAL CERTIFICATION:	
					Chief, Design Section
				I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED	APPROVED
				PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE	
				OF MARYLAND.	Chief, Division of Transportat
				LICENSE NO:	Designed by : MWM
		·			

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							
TYPE OF PERMIT	REQD	NOT REQD	PERMIT #	EXPIRATION DATE	WORK RESTRICTION DATES		
MCDPS Floodplain District		Х					
WATERWAYS/WETLAND(S):							
a. Corps of Engineers	Х						
b. MDE	Х						
c. MDE Water Quality Certification		Х					
MDE Dam Safety		Х					
* DPS Roadside Trees Protection Plan	Х		MCDOT BLANKET PERMIT NO. 361405	Approval Date			
N.P.D.E.S. NOTICE OF INTENT		Х			DATE FILED		
FEMA LOMR (Required Post Construction)		Х					
OTHERS:							
DPS Erosion and Sediment Control	Х						
MNCPPC Permit		Х					
* A copy of the Roadside	rees Protecti	on Plan mus	t be delivered to the sedime	nt control inspector at the	e preconstruction meeting.		
OWN	NER/P	PERMIT	APPLICANT	INFORMATIC	)N		
NAME: <u>MONTGOMER</u>	Y COUNTY DE	PARTMENT OF	TRANSPORTATION				
		4th FLOOR,	GAITHERSBURG, MD 20878				
<u> </u>	PHONE NUMBER: (240) 777-7263						
CONTACT PERSON: <u>REBECCA PA</u>	CONTACT PERSON: <u>REBECCA PARK, P.E.</u>						

## 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 CONSTRUCTION.

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

NEGLIGENCE OR METHOD OF OPERATION MUST BE MADE AT THE CONTRACTOR'S EXPENSE BEFORE PROCEEDING WITH CONSTRUCTION.
4. CALL "MISS UTILITY" AT I-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 PEMOVAL OR POOT CULTING ON TREES WITHIN THE PLANS. 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. IO. FOR CONSTRUCTION, ALL HORIZONTAL AND VERTICAL CONTROLS SHALL BE NAD 83 (2007)

AND NAVD 88 DATUM.

# 65% DESIGN SUBMISSION 11-20-2023

TECHNICAL REV SEDIMENT COM		ADMINISTRA	ADMINISTRATIVE REVIEW		R DEMONSTRATE . RUNOFF TREA DR IMPLY ANY F	DL OR STORMWATER ED COMPLIANCE WITH TMENT STANDARDS RIGHT TO DIVERT OR
				CONCENTRATE RUNOFF WITHOUT THAT PROPERT NOT RELIEVE THE DESIGN PERSON OF PROFES RESPONSIBILITY FOR TH DESIGN AS IT AFFECTS U	Y OWNER'S PEF ENGINEER OR SIONAL LIABILIT IE ADEQUACY (	RMISSION. IT DOES OTHER RESPONSIBLE Y OR ETHICAL OF THE DRAINAGE
REVIEWED	DATE	REVIEWED	DATE			
TECHNICAL REVI STORMWATER MAN			_ LOT APPROVAL	SEDIMENT CON	ntrol pe	RMIT NO.
		N/A: 🛛 OR				
					FILE NO. ir manageme	INT
REVIEWED	DATE	REVIEWED	DATE			
MCDPS APPROVAL OF THIS PL TWO YEARS FROM THE DATE IF THE PROJECT HAS NOT	OF APPROVAL	NOTE: MCDPS APPROVA NEED FOR A MCDPS	L DOES NOT NEGATE THE ACCESS PERMIT.			
MONTGOMERY COUNTY DEPARTMENT OF TRA DIVISION OF TRANSPORTATION ENGINE GAITHERSBURG, MARYLAND		GINEERING		DRWOOD RO Ared Use I		
RECOMMENDED FOR APPROVAL					, , , , , ,	
Chief, Design Section Date APPROVED		Date	TITLE SHEET			
Chief, Division of Transportation	Engineering	Date	SCALE : AS SHOWN DATE : NOVEMBER, 2		MBER, 2023	
Designed by : <u>MWM</u> Drav	wn by :NL	Checked by : <u>MWM</u>	Project No. : 502313	SHEET	1	of <u>20</u>

# ABBREVIATIONS

AASHTO	American Association of State Highway
	Transportation Officials
	. Average Daily Traffic
AHD	
APPROX	
□ or B/L	
BK	
BIT	
	Bituminous Concrete
B.M	
BOT	
	Center of Curve
	Corrugated Aluminum Pipe
	Corrugated Aluminum Pipe Arch
	Cable Television
	California Bearing Ratio
□ or C/L	-
CL.	
	Chainlink Fence
	Corrugated Metal Pipe
C.O.	
COMB	
CONC.	-
CONSTR	-
COR	
CORR	
	Corrugated Polyethylene Pipe - Type 'S'
	Corrugated Steel Pipe - Aluminized Type 2
CSPA	Corrugated Steel Pipe Arch -
	Aluminized Type 2
	. Degree of Curve
	. Design Hourly Volume
D.I.	-
DIA	-
	_ Double Opening
Е	
E	
	External Distance
EA	
EB	
ELEV	
ES	
	. Erosion and Sediment Control
EX or EXIST	•
FT	
F or FL	
	Flat Bottom Ditch
F.H.	-
FWD	
G	
G.V.	
Н.В.	
HDWL.	
HERCP	Horizontal Ellipitical Reinforced
	Concrete Pipe

HP	
IN	_ Inch
INV	_ Invert
	_ Junction Box
Κ	. K Inlet
L	_ Length
LF	Linear Feet
L.L	Liquid Limit
LOD	Limit of Disturbance
LP	. Low Point
L.P	Light Pole
LT	Left
MAC	
M.C	Moisture Content
MAX	
M.D.D.	. Maximum Dry Content
MOD.	
MIN.	
N	
NB	
NE	
N.P.	
O.C.	
	. Overhead Electric
	. Optimum Moisture
PAV'T	•
	Point of Curvature
	Point of Compound Curvature
	Profile Grade Elevation
	Profile Ground Elevation
	Profile Grade Line
	Profile Ground Line
	Point of Rotation
	Plasticity Index
	Point of Intersection
	. Point On Curve
	Point On Tangent
	Polyvinyl Chloride Profile Wall Pipe
PROP	•
	Point of Reverse Curve
PT	Point
	Point of Tangency
PVC	Point of Vertical Curve
	Polyvinyl Chloride
PVI	Point of Vertical Intersection
PVRC	Point of Vertical Reverse Curve
PVT	Point of Vertical Tangency
R	. Radius
R.F	Rock Fragments
RT	-
	Right of Way
	Reinforced Concrete Pipe
	Reinforced Concrete Pressure Pipe

# CONVENTIONAL SIGNS

PROPOSED MEDIAN BARRIER ELECTRICAL HAND BOX – SIGNALS	_ <u>‡</u> _ <u>‡</u> _ <u>‡</u> H.B. ■
FLOW LINE	
STATE, COUNTY OR CITY LINES	
PROPOSED TRAFFIC BARRIER W-BEAM	<u> </u>
EXISTING TRAFFIC BARRIER W-BEAM	<u> </u>
PROPOSED FENCE LINE	
EXISTING FENCE LINE	
PROPOSED CURB AND GUTTER	
R/W LINE	
TEMPORARY CONSTRUCTION EASEMENT	TCE
EXISTING ROADWAY	
BASE LINE OR SURVEY LINE	31 +50 32 F.H.
FIRE HYDRANT	
HISTORIC BOUNDARY	——— Н ————
PARK BOUNDARY	———— P ————
WATER LINE	— — w — — — — — —
OVERHEAD ELECTRIC	E
TRAFFIC_BARRIER	<u> </u>

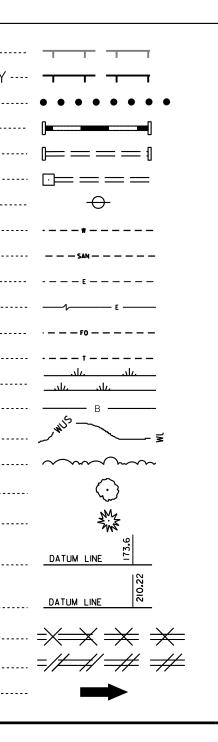
MERCADO

CONSULTANTS, INC.

EXISTING 100 YEAR FLOODPLAIN BOUNDARY PROPOSED 100 YEAR FLOODPLAIN BOUNDARY WETLAND BOUNDARY PROPOSED PIPE / CULVERT EXISTING PIPE / CULVERT EXISTING DROP INLET
EXISTING WATER
EXISTING SANITARY SEWER ·····
EXISTING ELECTRIC
EXISTING OVERHEAD ELECTRIC
EXISTING FIBER OPTIC
EXISTING TELEPHONE
WETLAND
WETLAND BUFFER ·····
WATERS OF THE U.S
HEDGE /TREE LINE
BUSH /TREE
CONIFEROUS TREE
GROUND ELEVATION
GRADE ELEVATION
PIPE TO BE REMOVED
PIPE TO BE ABANDONED
DIRECTION OF TRAFFIC FLOW

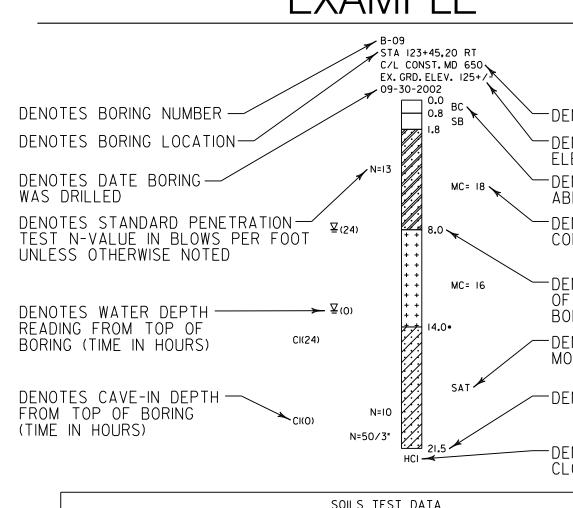
## SOIL

N.Q.D.		
R.M	Rootmat	
S	South	A-3 SAND
SAN	Sanitary Sewer	
SB or S/B	Southbound	
S.D.	Storm Drain	A-2 SAND & FINES
S.D.D.	Surface Drain Ditch	SAND & FINES
	Super Elevation	
SF	Silt Fence	A-2-4 SILTY SAND
SF	Square Feet	SILTY SAND L
SHT	Sheet	
SPP	Structural Steel Plate Pipe	A-4-2 SANDY SILT
SPPA	Structural Steel Plate Pipe Arch	E SANDY SILT
S.P.T	Standard Penetration Testing	
SRP	Steel Spiral Rib Pipe -	PLAN LOCATION OF
	Aluminized Type 2	
SRPA	Steel Spiral Rib Pipe Arch -	
	Aluminized Type 2	
SSD	Stopping Sight Distance	AO-ABOVE OPTIMUM
SSF	Super Silt Fence	SAT-SATURATED
STD.	Standard	LIQ-LIQUEFIED
STA	Station	
	Single Opening	TS-TOPSOIL
	Square Yards	RM-ROOT MAT
	Stormwater Management	BC-BITUMINOUS CONCRETE SB-STONE BASE
Т		PCC-PORTLAND CEMENT
	Telephone	CONCRETE
	Top of Cover	
	Top of Grate	
	Traverse Line	NOTES: SOIL SYMBOLS DE
	Top of Manhole	
TRAV		ALL DIMENSIONS, DEPTHS AN
	Temporary Swale	AN ASTERISK AT THE TOP
	Top of Slab	STRATA WAS VISUALLY CLA
T.S	•	STRATA TAS VISUALET GEA
TYP	•	MDD & OMC PER A.A.S.H.T.
	Under Drain	
	Underground	N PER A.A.S.H.T.O. DESIGNAT
	Utility Pole	
	United States Environmental	UNLESS OTHERWISE NOTED
	Protection Agency	BORINGS FOR ROADWAY CON
USDA	United States Department	HOURS WITH NO EXCESS MO
	of Agriculture	DURING TIME OF SOIL SURVE
VCL	Vertical Clearance	
	Vertical Curve Length	
W		
W		SOIL BORING PROFIL
	Westbound	JUL DUNING FNUFIL
	Wetland Buffer	
	Water Meter	EXAMPLE
	Wrapped Steel	
	Waters of the United States	B-09 STA 123+45,20 RT
	Water Valve	C/L CONST. MD 650
••••		EX. GRD. ELEV. 125+/* 09-30-2002



RQD...

...Rock Quality Designation



	SUILS TEST DATA						
BORING NUMBER	SAMPLE DEPTH	LL	ΡI	USDA	USC	MDD	
B-09	1.8 - 8.0	18	NP	Sandy Loam	-	-	
B-09	8.0 - 14.0	41	22	Silty Clay Loam	CL	121	

NO.	REVISION	DATE	BY	DESIGNED BY <u>ra</u> DRAWN BY <u>I</u>		
				Chief, Division of Transportation Engineering		
				APPROVED		
				Chief, Transportation Planning and Design Section		
				RECOMMENDED FOR APPROVAL		
				DEPARTMENT OF TRA Rockville, Ma		
				MONTGOMERY		

	A-7-4 SILTY CLAY
XXX XXX SANDY CLAY	+ + A-7 + + CLAY
A-4 SIL T	+ + A-6 + + Colloidal Clay
A-4-7 CLAYEY SILT	A-5 MICA, DIATOMS
HORIZONTAL	ND PROFILES SCALE: - NONE SEE PROFILE SHEETS
	X (%) TURE CONTENT (%) CLASSIFICATION ES DEPARTMENT OF CLASSIFICATION
W/RF-WITH ROCK F	RAGMENTS
DENOTE MSMT CLASSIFICAT	IONS
AND ELEVATIONS ARE NOT	ED IN FEET
P DEPTH OF STRATA INDIC. CLASSIFIED BY DRILLER	ATES THAT
.T.O. DESIGNATION T-180	
NATION T-206	
D ON PLANS, ALL SOIL SUF Construction were left ( Moisture or free water RVEY (09/2000 to 06/200	OPEN FOR 24 ENCOUNTERED

ILE

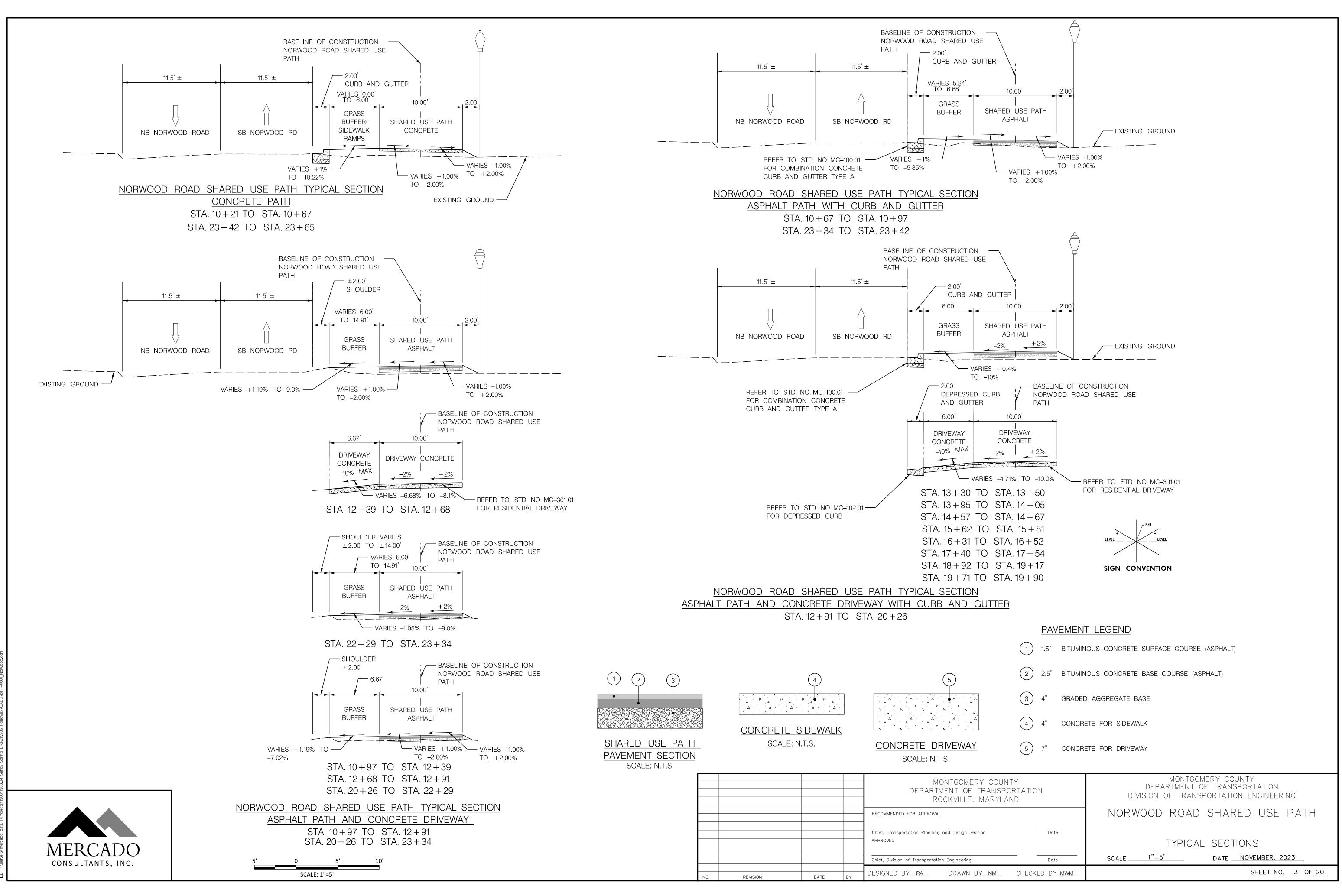
 DENOTES REFERENCE LINE
 DENOTES EXISTING GROUND ELEVATION
 DENOTES STRATA ABBREVIATION
 DENOTES LAB MOISTURE CONTENT (%)

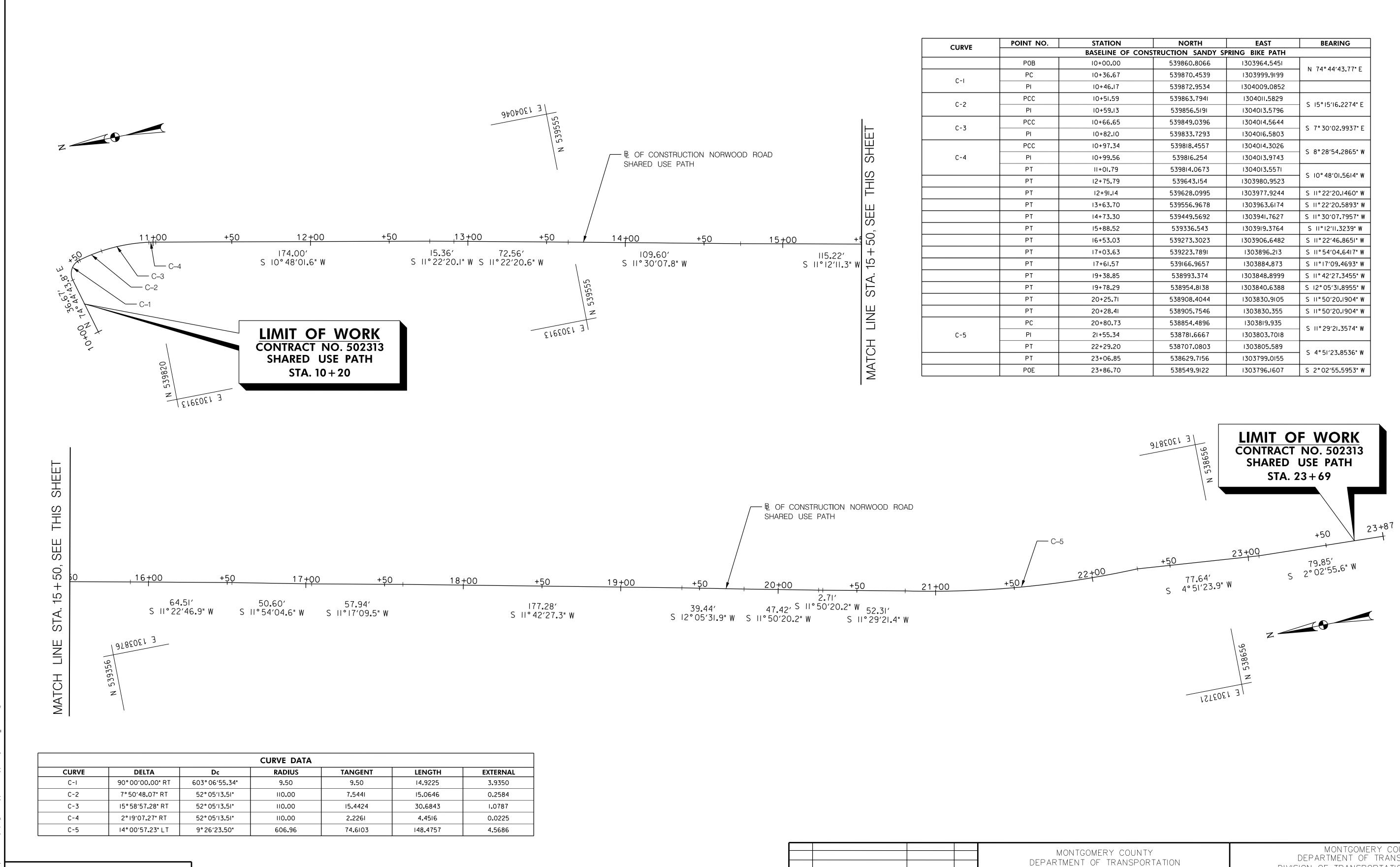
 DENOTES DEPTH TO TOP OF STRATA FROM TOP OF BORING
 DENOTES FIELD NOTED MOISTURE CONTENT

-- DENOTES HOLE WAS CLOSED IMMEDIATELY

ОМС	REMARKS
ONIC	REMARKS
-	with Gravel
12	-

COUNTY RANSPORTATION 1ARYLAND	MONTGOMERY COUNTY DEPARTMENT OF TRANSPORTATION DIVISION OF TRANSPORTATION ENGINEERING		
on Date	NORWOOD ROAD SHARED USE PATH		
	NOTES AND ABBREVIATIONS		
Date	SCALE NONE DATE NOVEMBER, 2023		
<u>_nm</u> checked by <u>_mwm_</u>	SHEET NO2_OF_20_		





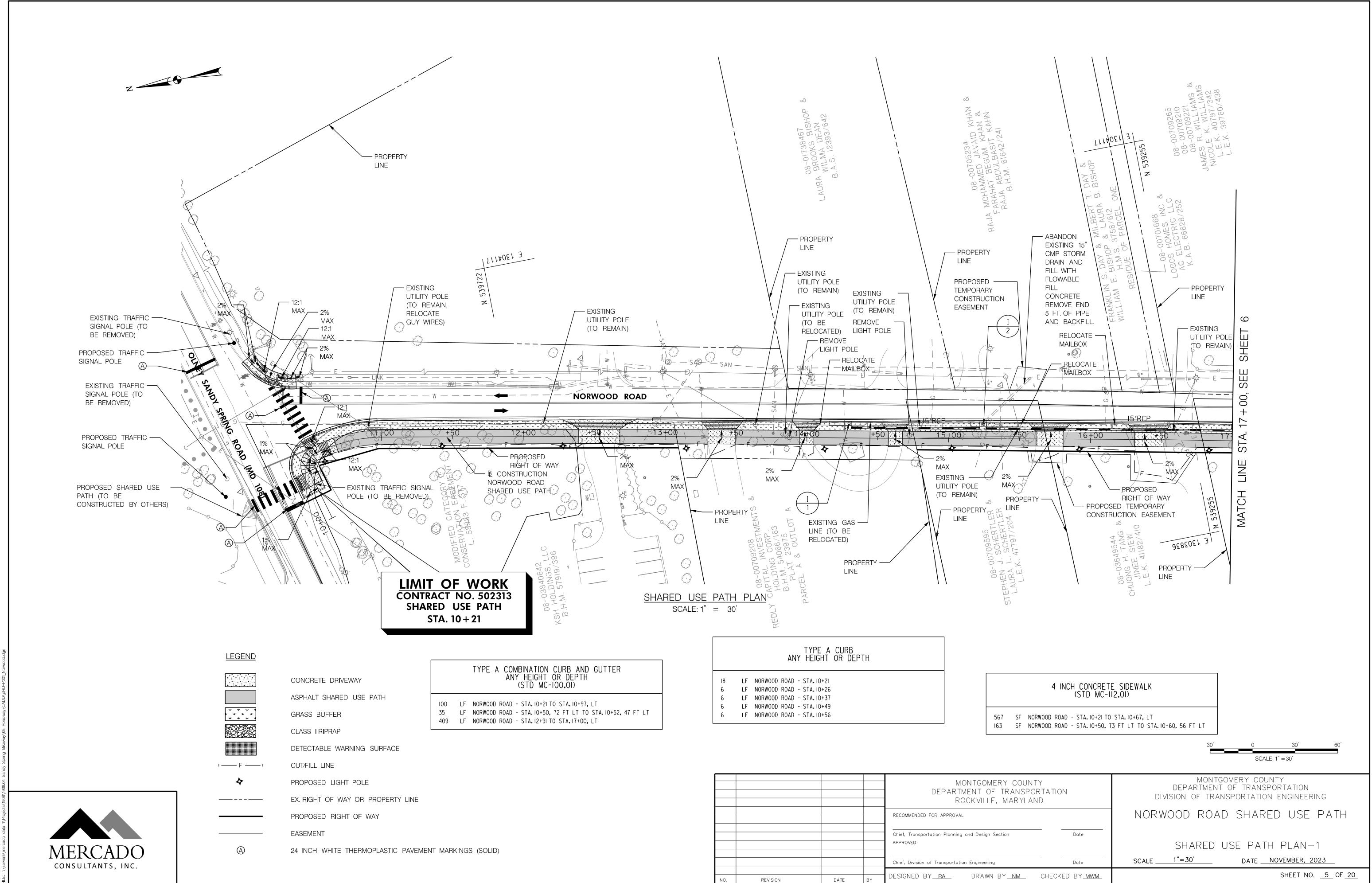


SCALE: 1" = 30'

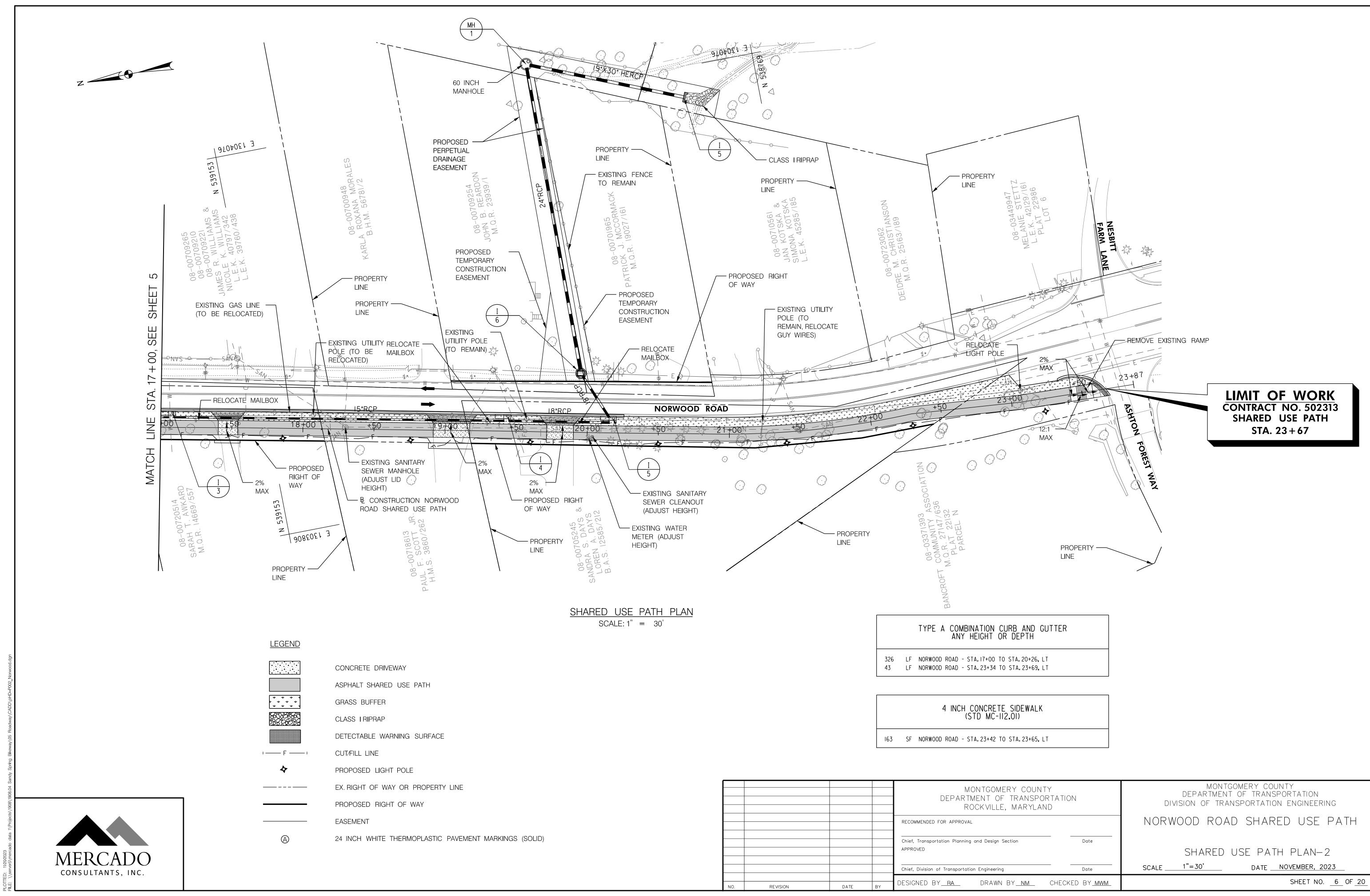
CURVE	POINT NO.	STATION	NORTH	EAST	BEARING
CORVE		BASELINE OF CO	NSTRUCTION SANDY S	PRING BIKE PATH	
	РОВ	10+00.00	539860.8066	1303964.5451	– N 74° 44′ 43.77" E
C-1	PC	10+36.67	539870.4539	1303999.9199	
U-1	PI	10+46.17	539872.9534	1304009.0852	
C-2	PCC	10+51.59	539863.7941	1304011.5829	S 15815/1C 2274# [
C-2	PI	10+59 <b>.</b> 13	539856.5191	1304013.5796	S 15°15′16.2274"1
C-3	PCC	10+66.65	539849.0396	1304014.5644	S 78 70/00 00778
L-3	PI	10+82.10	539833.7293	1304016.5803	S 7° 30′02.9937"
	PCC	10+97.34	539818.4557	1304014.3026	C 0820/E42065
C-4	PI	10+99.56	539816.254	1304013.9743	S 8°28′54.2865"
	PT	11+01.79	539814.0673	1304013.5571	
	PT	12+75.79	539643.154	1303980.9523	S 10° 48′01.5614"
	PT	12+91.14	539628.0995	1303977.9244	S II°22′20.1460"
	PT	13+63.70	539556.9678	1303963.6174	S II°22′20.5893"
	PT	14+73.30	539449.5692	1303941.7627	S II° 30'07.7957"
	PT	15+88.52	539336.543	1303919.3764	S II°I2′II.3239" I
	PT	16+53.03	539273.3023	1303906.6482	S II°22′46.865I"
	PT	17+03.63	539223.7891	1303896.213	S II°54′04.64I7"
	PT	17+61.57	539166.9657	1303884.873	S II°17′09.4693"
	PT	19+38.85	538993.374	1303848.8999	S II° 42′27.3455"
	PT	19+78.29	538954.8138	1303840.6388	S 12°05′31.8955"
	PT	20+25.71	538908.4044	1303830.9105	S II°50′20.1904"
	PT	20+28.41	538905.7546	1303830.355	S II° 50′20.1904"
	PC	20+80.73	538854.4896	1303819.935	C 118 20/21 7E 7 4
C-5	PI	21+55.34	538781.6667	1303803.7018	S II°29′2I.3574"
	PT	22+29.20	538707.0803	1303805.589	C 405407.05765
	PT	23+06.85	538629.7156	1303799.0155	S 4° 51′23.8536"
	POE	23+86.70	538549.9122	1303796.1607	S 2°02′55.5953"

NO.	REVISION	DATE	BY	DESIGNED BY <u>ra</u> DRAWN BY_
				Chief, Division of Transportation Engineering
				APPROVED
				Chief, Transportation Planning and Design Section
				]
				RECOMMENDED FOR APPROVAL
				ROCKVILLE, MA
				DEPARTMENT OF TR
				MONTGOMERY

COUNTY RANSPORTATION 1ARYLAND	MONTGOMERY COUNTY DEPARTMENT OF TRANSPORTATION DIVISION OF TRANSPORTATION ENGINEERING
	NORWOOD ROAD SHARED USE PATH
n Date	GEOMETRIC SHEET
Dote	SCALE <u>1"=30'</u> DATE <u>NOVEMBER, 2023</u>
<u>_nm</u> checked by <u>_mwm_</u>	SHEET NO. <u>4</u> OF <u>20</u>

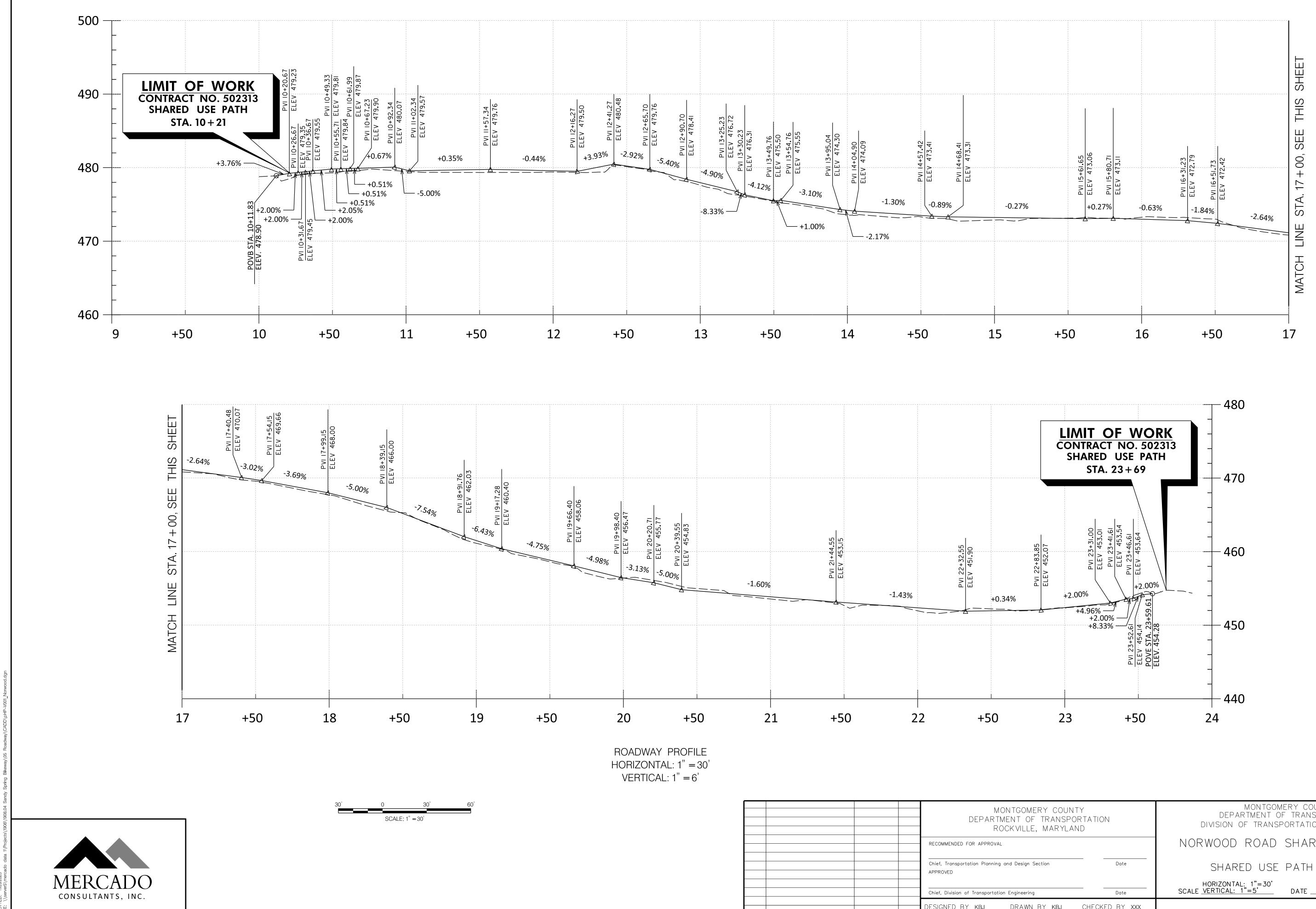


				MONTGOMERY DEPARTMENT OF TR ROCKVILLE, MA
				RECOMMENDED FOR APPROVAL
				Chief, Transportation Planning and Design Section APPROVED
				Chief, Division of Transportation Engineering
NO.	REVISION	DATE	BY	DESIGNED BY <u>ra</u> Drawn By_



				MONTGOMERY Department of tr/ Rockville, MA
				RECOMMENDED FOR APPROVAL
				Chief, Transportation Planning and Design Section APPROVED
				Chief, Division of Transportation Engineering
NO.	REVISION	DATE	BY	DESIGNED BY <u>RA</u> DRAWN BY_

AND GUTTER	
.20+26,LT .23+69,LT	
)EWALK	
.23+65, LT	
.23+65, LT	
COUNTY ANSPORTATION	MONTGOMERY COUNTY DEPARTMENT OF TRANSPORTATION DIVISION OF TRANSPORTATION ENGINEERING
COUNTY ANSPORTATION	DEPARTMENT OF TRANSPORTATION
COUNTY ANSPORTATION ARYLAND	DEPARTMENT OF TRANSPORTATION DIVISION OF TRANSPORTATION ENGINEERING NORWOOD ROAD SHARED USE PATH
COUNTY ANSPORTATION ARYLAND	DEPARTMENT OF TRANSPORTATION DIVISION OF TRANSPORTATION ENGINEERING



_				
				MONTGOMERY
				DEPARTMENT OF TR
				ROCKVILLE, M
				RECOMMENDED FOR APPROVAL
				Chief, Transportation Planning and Design Section
				APPROVED
				Chief, Division of Transportation Engineering
NO.	REVISION	DATE	BY	DESIGNED BY <u>kbj</u> drawn by_

Y COUNTY Ransportation Maryland	MONTGOMERY COUNTY DEPARTMENT OF TRANSPORTATION DIVISION OF TRANSPORTATION ENGINEERING
	NORWOOD ROAD SHARED USE PATH
on Date	SHARED USE PATH PROFILES
Date	HORIZONTAL: 1"=30' SCALE <u>VERTICAL: 1"=5'</u> DATE <u>NOVEMBER, 2023</u>
<u>(_квј</u> CHECKED BY <u>_XXX</u>	SHEET NO. <u>7</u> OF <u>20</u>

## 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 ZONE.
- 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 SECTION.

- 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 INTERVALS THROUGHOUT THE AREA OF THE UNEVEN JOINT.
- 2. WHERE LATERAL PAVING JOINTS OF TWO (2) INCHES OR LESS ARE EXPOSED OF THE JOINT.
- 3. WHEN MILLED PAVEMENT IS LEFT EXPOSED TO TRAFFIC, A \*ROUGH ROAD 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.



FEET IN ADVANCE OF THE UNEVEN JOINT AND BE SPACED AT APPROPRIATE

TO TRAFFIC, A \*BUMP\* (W8-1) SIGN SHALL BE POSTED 100 FEET IN ADVANCE

(W8-8) OR \*GROOVED PAVEMENT\* (W8-8A) SIGN SHALL BE PLACED 250 FEET

- 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.

## SEQUENCE OF CONSTRUCTION

1. 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

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.

## 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.

				MONTGOMERY
				DEPARTMENT OF TR
				ROCKVILLE, M
				RECOMMENDED FOR APPROVAL
				Chief, Transportation Planning and Design Section APPROVED
				-
				Chief, Division of Transportation Engineering
NO.	REVISION	DATE	BY	DESIGNED BY <u>ra</u> drawn by.

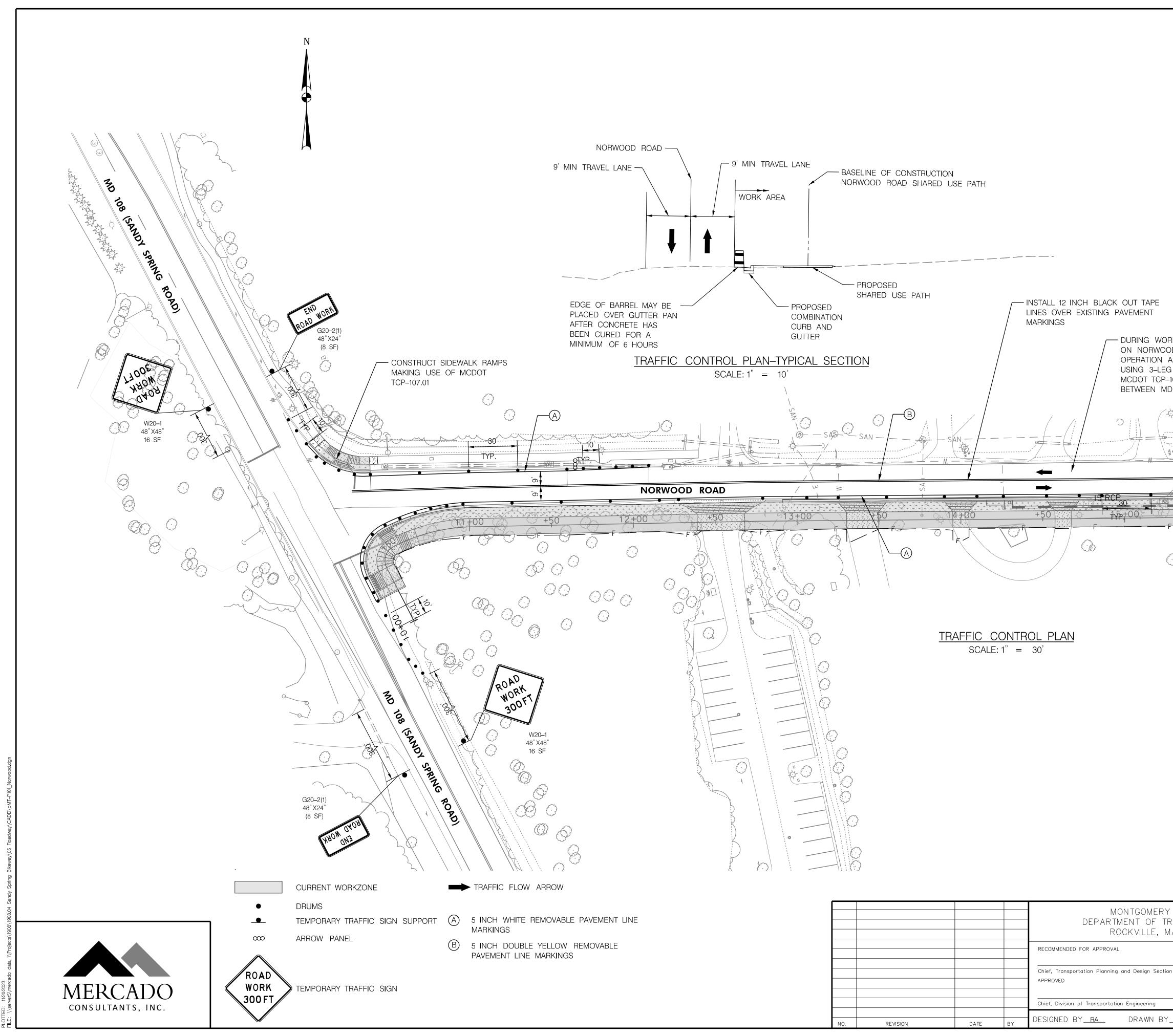
A. INSTALL ALL TEMPORARY SIGNING AND MARKING REQUIRED FOR THE INITIAL CONSTRUCTION WORK TO BE

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.

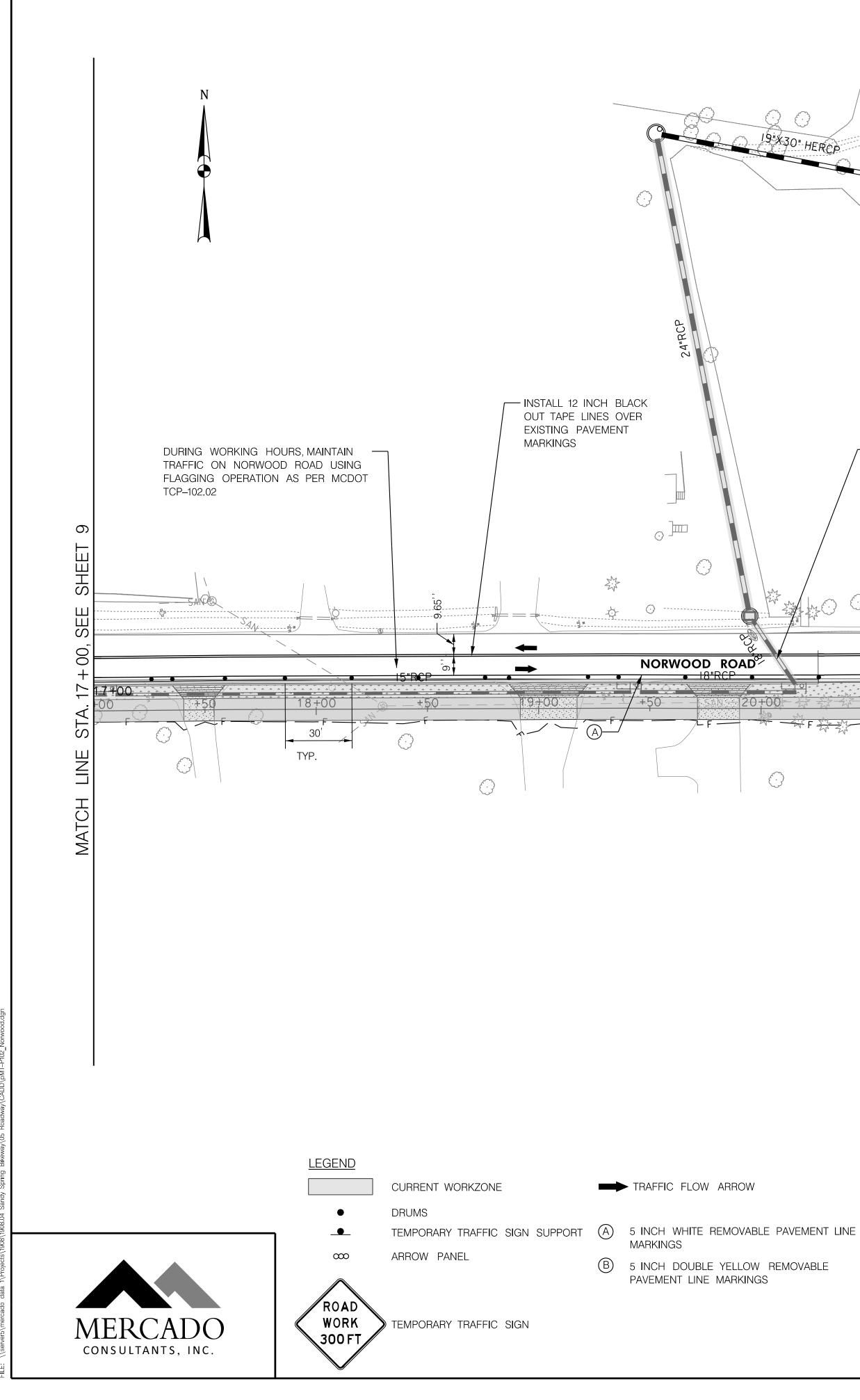
G. RESTORE FLAGGING OPERATION AND APPLICABLE TEMPORARY SIGNS DURING WORKING HOURS.

H. AT THE COMPLETION OF WORK, REMOVE ALL TEMPORARY TRAFFIC CONTROL DEVICES.

COUNTY RANSPORTATION MARYLAND	MONTGOMERY COUNTY DEPARTMENT OF TRANSPORTATION DIVISION OF TRANSPORTATION ENGINEERING			
	NORWOOD ROAD SHARED USE PATH			
n Date	TRAFFIC CONTROL PLAN			
Dote	SCALE <u>NTS</u> DATE <u>NOVEMBER, 2023</u>			
<u>NM</u> CHECKED BY <u>MWM</u>	SHEET NO. <u>8</u> OF <u>20</u>			



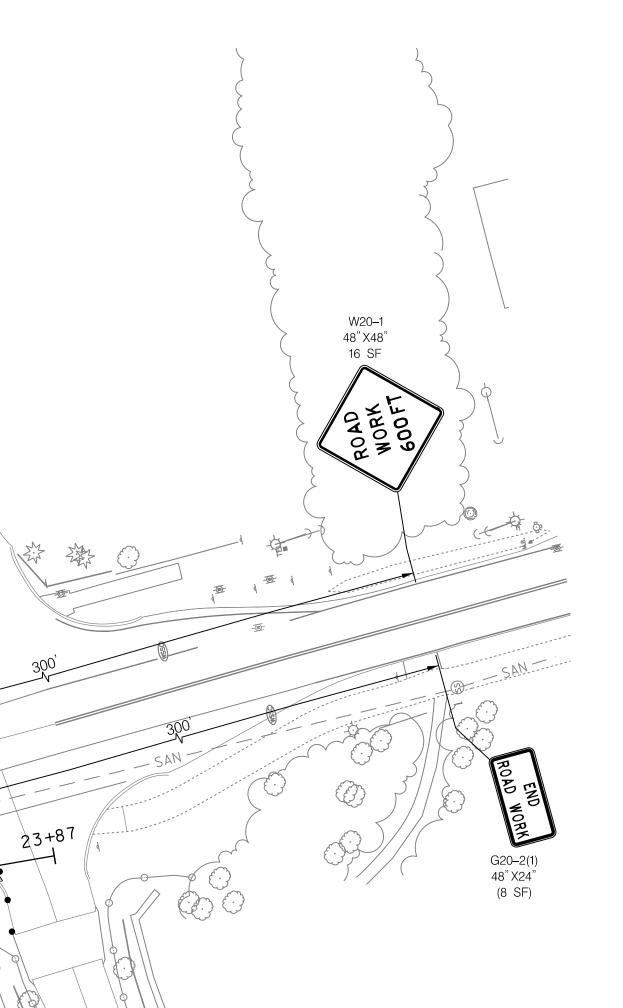
PRKING HOURS, MAINTAIN TRAFFI OD ROAD USING FLAGGING AS PER MCDOT TCP-102.02 AND G FLAGGING OPERATION AS PE -105.06 AT THE INTERSECTION ID 108 AND NORWOOD ROAD	R 15"RCP 17+00 17+00 17+00
Y COUNTY RANSPORTATION MARYLAND	MONTGOMERY COUNTY DEPARTMENT OF TRANSPORTATION DIVISION OF TRANSPORTATION ENGINEERING
	NORWOOD ROAD SHARED USE PATH
on Date	TRAFFIC CONTROL PLAN-NON WORKING HOURS scale <u>1"=30</u> date <u>november, 2023</u>
( <u>nm</u> checked by <u>mwm</u>	SHEET NO. <u>9</u> OF <u>20</u>

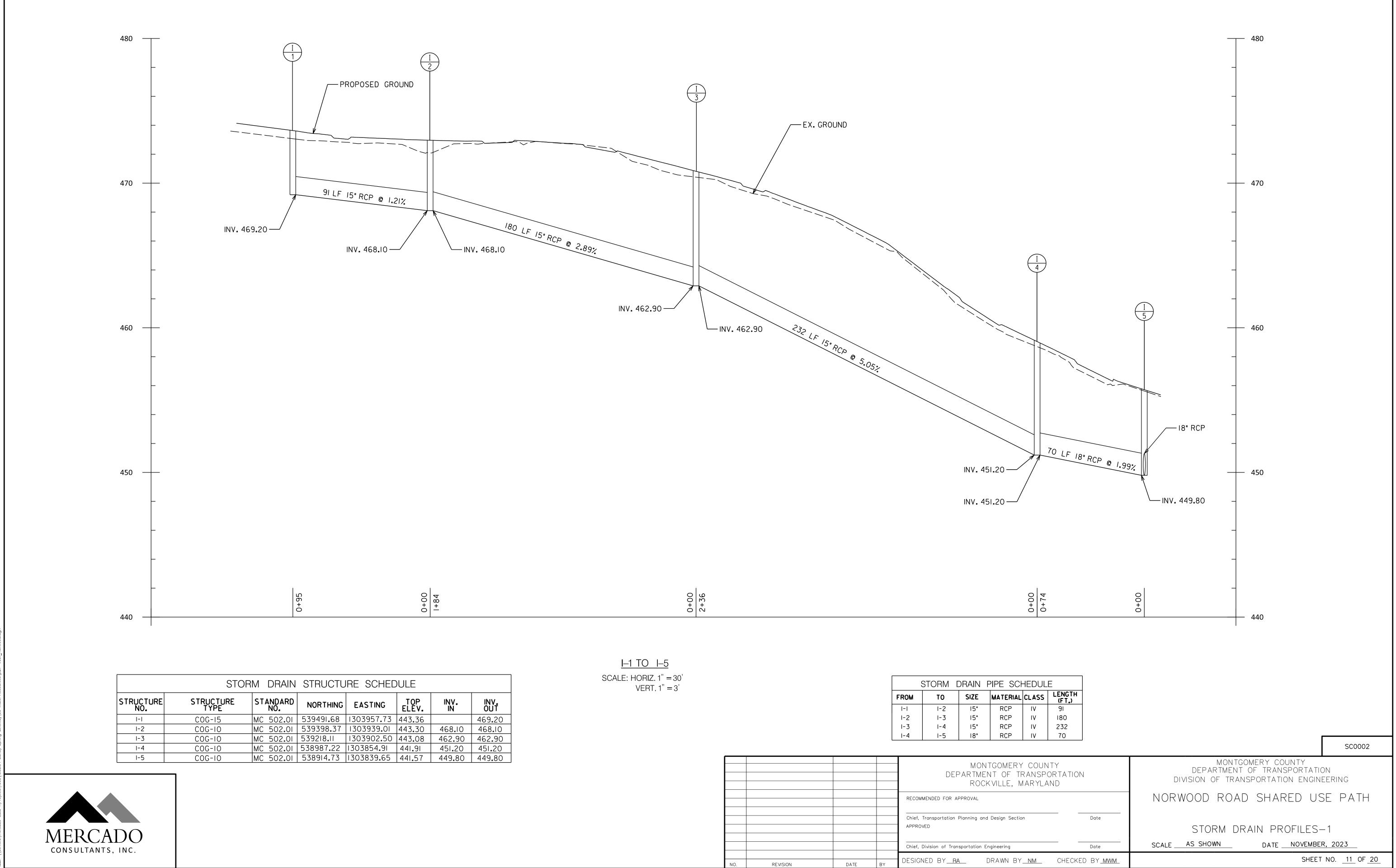


Ð £ · ; W5–1 48" X48" 16 SF  $\bigcirc \mathbf{Z}$ ROA CONSTRUCT PROPOSED STORM PIPE ONE HALF AT A TIME MAKING USE OF FLAGGING OPERATION AS PER MCDOT TCP-102.02 DURING WORKING HOURS. USE STEEL PLATES AS NEEDED. -2:3-4:50% 2 + 1Ð 0  $\bigcirc$  $\{\cdot\}$ 

				MONTGOMERY DEPARTMENT OF TR ROCKVILLE, M
				RECOMMENDED FOR APPROVAL
				Chief, Transportation Planning and Design Section APPROVED
				Chief, Division of Transportation Engineering
NO.	REVISION	DATE	BY	DESIGNED BY <u>ra</u> DRAWN BY_

COUNTY RANSPORTATION ARYLAND	MONTGOMERY COUNTY DEPARTMENT OF TRANSPORTATION DIVISION OF TRANSPORTATION ENGINEERING
	NORWOOD ROAD SHARED USE PATH
on Date	TRAFFIC CONTROL PLAN-NON WORKING HOURS
Dote	SCALE <u>1"=30</u> DATE <u>NOVEMBER, 2023</u>
NM CHECKED BY_MWM_	SHEET NO. 10 OF 20



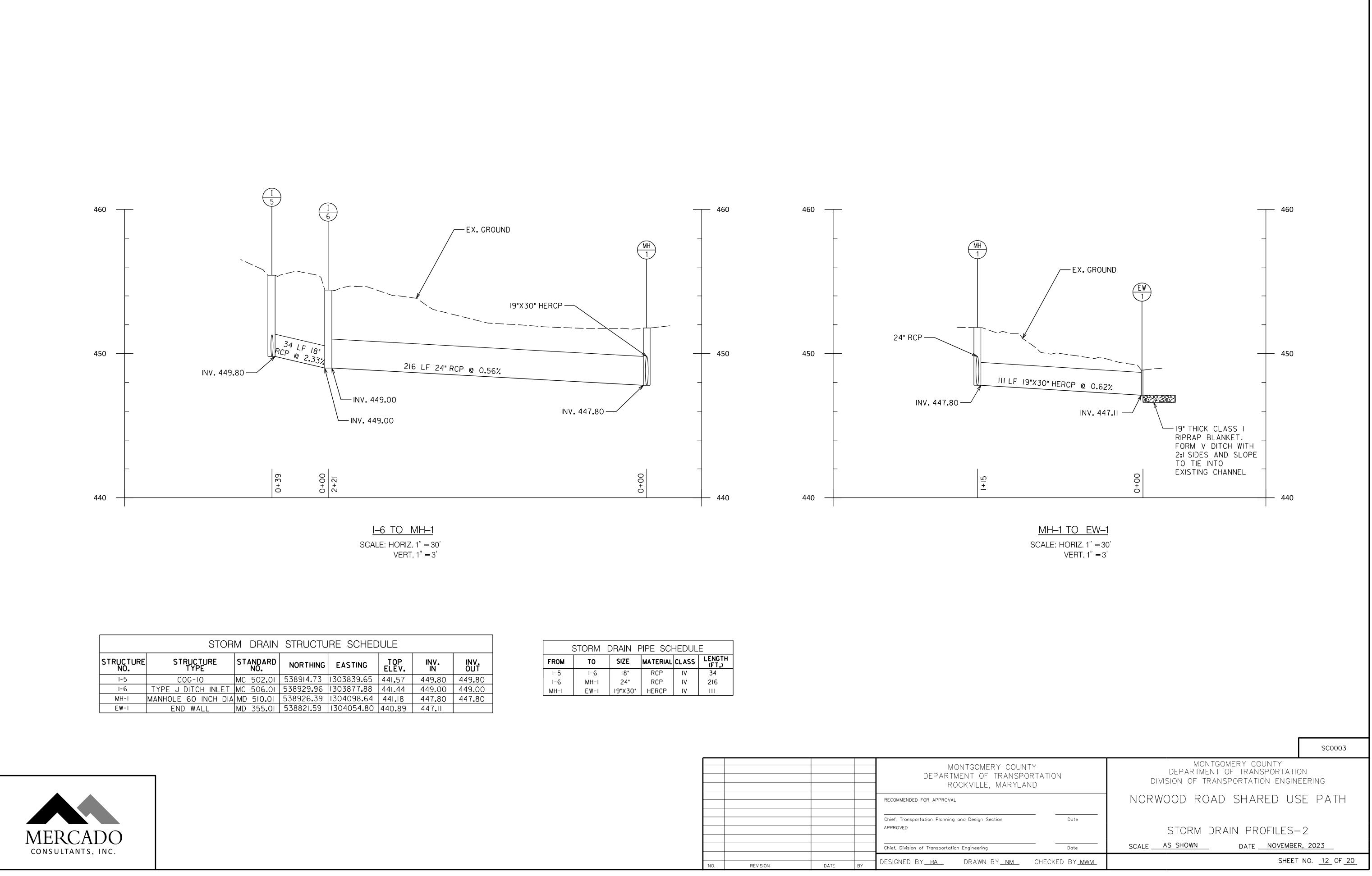


MERCADO CONSULTANTS, INC.	

	STORM	DRAIN	PIPE SCH
FROM	то	SIZE	MATERIAL
-	1-2	15"	RCP
I-2	1-3	15"	RCP
I-3	1-4	15"	RCP
I-4	I-5	18"	RCP

					MONTGOMERY
					DEPARTMENT OF TR.
					ROCKVILLE, MA
					RECOMMENDED FOR APPROVAL
-					-
					Chief, Transportation Planning and Design Section
					APPROVED
					APPROVED
					Chief, Division of Transportation Engineering
L					
	NO.	REVISION	DATE	BY	DESIGNED BY <u>ra</u> DRAWN BY_

INV. OUT	
169.20	
468.10	
162.90	
451.20	
49.80	



STORIVI DRAIN STRUCTURE SCHEDULE									
STRUCTURE NO.	STRUCTURE TYPE	STANDARD NO.	NORTHING	EASTING	TOP ELEV.	INV. IN	INV. OUT		
I-5	COG-10	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	111			

		1		
				MONTGOMERY DEPARTMENT OF TR ROCKVILLE, M
				RECOMMENDED FOR APPROVAL
				Chief, Division of Transportation Engineering
NO.	REVISION	DATE	BY	DESIGNED BY <u>ra</u> DRAWN BY_

# EROSION AND SEDIMENT CONTROL - GENERAL NOTES

## STANDARD EROSION AND SEDIMENT CONTROL NOTES

1.	B R	THE PERMITTEE SHALL NOTIFY THE DEPARTMENT OF PERMITTING SERVICES (DPS) FORTY-EIGHT (48) HOURS DEFORE COMMENCING ANY LAND DISTURBING ACTIVITY AND, UNLESS WAIVED BY THE DEPARTMENT, SHALL BE DEQUIRED TO HOLD A PRE-CONSTRUCTION MEETING BETWEEN THEM OR THEIR REPRESENTATIVE, THEIR ENGINEER AND AN AUTHORIZED REPRESENTATIVE OF THE DEPARTMENT.	12.
2.	А	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	13.
	С	ACTIVITY. 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.	14.
	D E.	9. PRIOR TO REMOVAL OR MODIFICATION OF ANY SEDIMENT CONTROL STRUCTURE(S). 1. PRIOR TO FINAL ACCEPTANCE.	15.
3.	C Bl T	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 SEGINNING 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.	16.
4.	0	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.	17.
5.	A Pi A	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.	18. 19.
6.		OLLOWING INITIAL SOIL DISTURBANCE OR RE-DISTURBANCE, PERMANENT OR TEMPORARY STABILIZATION MUST BE	20.
		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	21.
		3) SEVEN (7) CALENDAR DAYS AS TO ALL OTHER DISTURBED OR GRADED AREAS ON THE PROJECT SITE NOT INDER ACTIVE GRADING.	22.
	S	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.	23.
7.	M A C IN F	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 MPROVEMENTS, AND AREAS WITHIN FIFTY (50) FEET OF A BUILDING UNDER CONSTRUCTION MAY BE EXEMPT ROM THIS REQUIREMENT, PROVIDED THAT EROSION AND SEDIMENT CONTROL MEASURES ARE INSTALLED AND MAINTAINED TO PROTECT THOSE AREAS.	24. 25.
8.	. PI D SI D W TI	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 ORAINAGE. 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 TINAL PERMANENT STABILIZATION OF SUCH PROPERTY SHALL BE COMPLETED PRIOR TO THE FOLLOWING APRIL 15.	26.
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	D D FI R	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 TILL 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.	27. 28.
11	D	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.	



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.

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.

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.

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.

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.

ALL INLETS IN NON-SUMP AREAS SHALL HAVE ASPHALT BERMS INSTALLED AT THE TIME OF BASE PAVING ESTABLISHMENT.

THE SEDIMENT CONTROL INSPECTOR HAS THE OPTION OF REQUIRING ADDITIONAL SEDIMENT CONTROL MEASURES, AS DEEMED NECESSARY.

ALL TRAP ELEVATIONS ARE RELATIVE TO THE OUTLET ELEVATION, WHICH MUST BE ON EXISTING UNDISTURBED GROUND.

VEGETATIVE STABILIZATION SHALL BE PERFORMED IN ACCORDANCE WITH THE STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL.

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.

SEDIMENT REMOVED FROM TRAPS/BASINS SHALL BE PLACED AND STABILIZED IN APPROVED AREAS, BUT NOT WITHIN A FLOODPLAIN.

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.

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.

OFF-SITE SPOIL OR BORROW AREAS MUST HAVE PRIOR APPROVAL BY DPS.

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.

THE PERMITTEE MUST NOTIFY THE DEPARTMENT OF ALL UTILITY CONSTRUCTION ACTIVITIES WITHIN THE PERMITTED LIMITS OF DISTURBANCE PRIOR TO THE COMMENCEMENT OF THOSE ACTIVITIES.

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".

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.

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: 10-10-10 OR EQUIVALENT AT 1000 LBS. PER ACRE OR 23 LBS. PER 1000 SQ. FT. (PERMANENT AND SODDING) 10-10-10 OR EQUIVALENT AT 600 LBS. PER ACRE OR 15 LBS./1000 SQ. FT. (TEMPORARY)

IV. SEDIMENT CONTROL PRACTICE SEEDING

SEED: ANNUAL RYEGRASS 40 LBS./ACRE OR I.O LBS./IOOO SO.FT. DATE: 3/1 TO 5/15 AND 8/1 TO 10/15 SEED: FOXTAIL MILLET 30 LBS./ACRE OR 0.7 LBS./1000 SQ.FT. DATE: 5/16 TO 7/31

V. TEMPORARY SEEDING: PER GROWING SEASON

SEED: ANNUAL RYEGRASS 40 LBS./ACRE OR I.O LBS./IOOO SQ.FT. DATE: 3/1 TO 5/15 AND 8/1 TO 10/15 SEED: FOXTAIL MILLET 30 LBS./ACRE OR 0.7 LBS./1000 SQ.FT. DATE: 5/16 TO 7/31

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 10/15 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  $1\frac{1}{2}$  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./1000 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

PROTECTIVE VEGETATION. ORIGINALLY APPLIED. IF STAND IS OVER 60% DAMAGED, REESTABLISH FOLLOWING ORIGINAL RATES AND PROCEDURES.

A. IRRIGATION: WHEN SOIL MOISTURE BECOMES DEFICIENT, IRRIGATE TO PREVENT LOSS OF STAND OF B. REPAIRS: IF STAND IS INADEQUATE FOR EROSION CONTROL, OVERSEED AND FERTILIZE USING HALF OF THE RATES 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.

						SC0004
			MONTGOMERY COUNTY DEPARTMENT OF TRANSPORTATION ROCKVILLE, MARYLAND		MONTGOMERY COUNTY DEPARTMENT OF TRANSPORTATION DIVISION OF TRANSPORTATION ENGINE	
			RECOMMENDED FOR APPROVAL		NORWOOD ROAD SHARED USE	e path
			Chief, Transportation Planning and Design Section APPROVED	Date	EROSION AND SEDIMENT CONTROL PLAN NOTES	
			Chief, Division of Transportation Engineering	Date	SCALE <u>1"=30'</u> DATE <u>NOVEMBER</u> ,	, 2023
NO.	REVISION	DATE BY	DESIGNED BY <u>RA</u> DRAWN BY <u>NM</u>	CHECKED BY <u>mwm</u>	SHEET N	NO. <u>13</u> OF <u>20</u>

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

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

## 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) 777-0311 (48 HOURS NOTICE) AND THE MNCPPC, PLANNING DEPARTMENT, PLANS ENFORCEMENT INSPECTOR (301) 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 1-1 AND 1-2 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.
- I6. 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.



MONTGOMERY DEPARTMENT OF TRA ROCKVILLE, MA RECOMMENDED FOR APPROVAL Chief, Transportation Planning and Design Section APPROVED Chief, Division of Transportation Engineering DESIGNED BY RA DRAWN BY REVISION DATE BY

		SC0005
COUNTY CANSPORTATION ARYLAND	MONTGOMERY COUNTY DEPARTMENT OF TRANSPORTATIO DIVISION OF TRANSPORTATION ENGINE	
	NORWOOD ROAD SHARED US	SE PATH
Date	EROSION AND SEDIMENT SEQUENCE OF CONSTRUCT scale <u>1"=30'</u> date <u>november</u>	ION
NMCHECKED_BY_MWM	SHEET	NO. <u>14</u> OF <u>20</u>

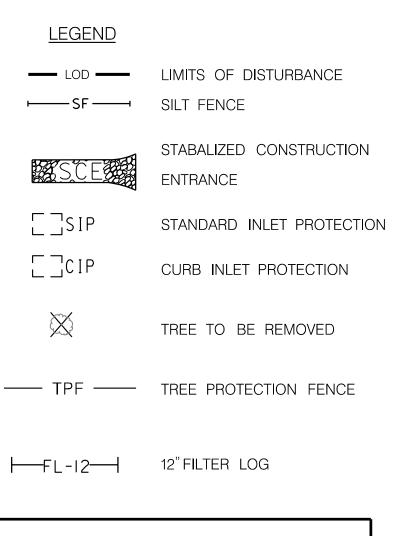
	INLET PROTECTION (IP)					
ID NO.	STATION	QUATITY	DRAINAGE AREA (AC)			
CIP 1.1	STA. 14+24, LT	1 EA	0.7			
CIP 1.2	STA. 15+19, LT	1 EA	0.47			

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

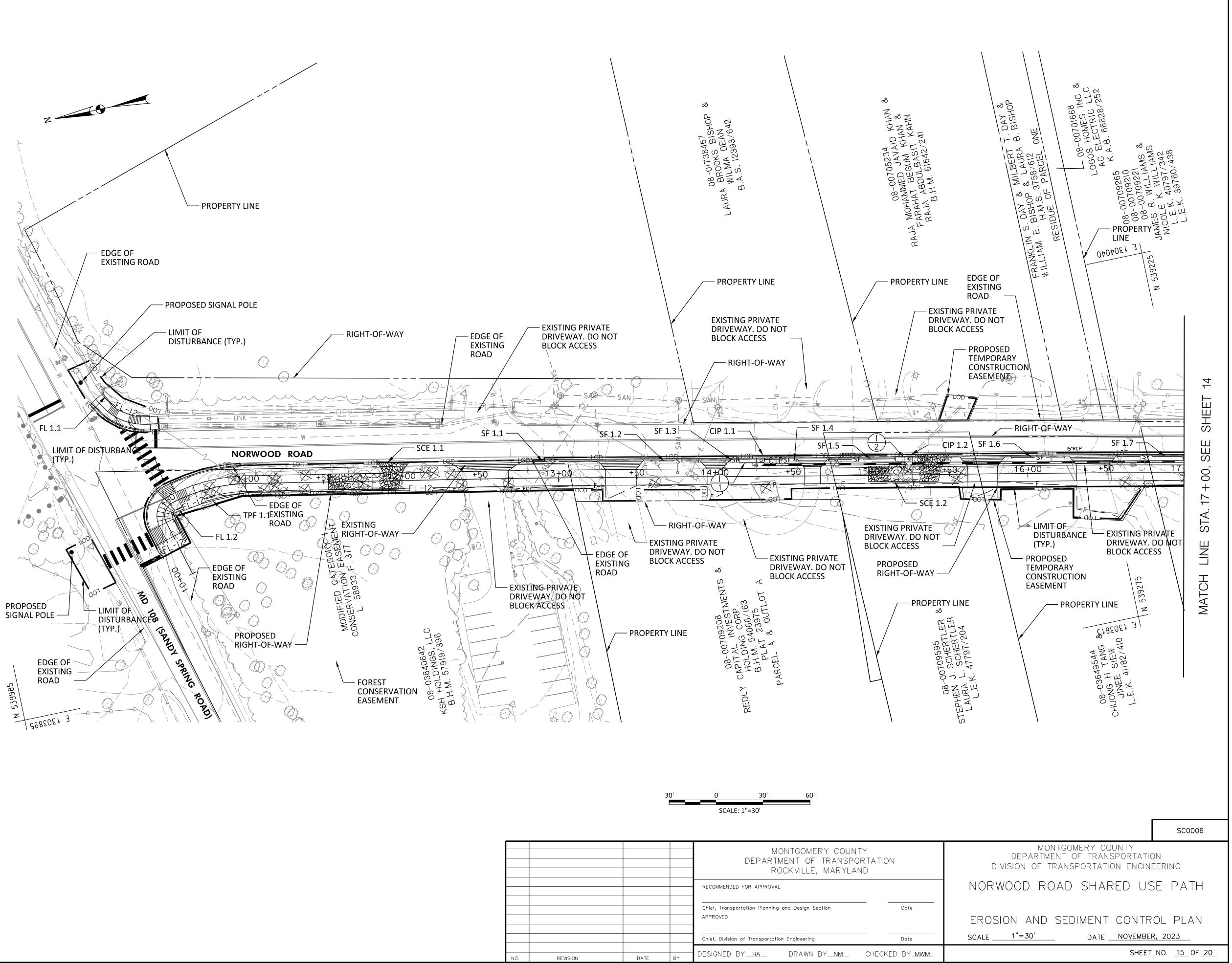
	SILT FENCE				
ID NO.	QUATITY	STATION			
SF 1.1	47 LF STA. 12+78, LT				
SF 1.2	30 LF	STA. 13+59, LT			
SF 1.3	5 LF	STA. 14+10, LT			
SF 1.4	20 LF	STA. 14+32, LT			
SF 1.5	42 LF	STA. 14+73, LT			
SF 1.6	.6 34 LF STA. 15+88, LT				
SF 1.7	SF 1.7 42 LF STA. 16+57, LT				

	12-INCH 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		

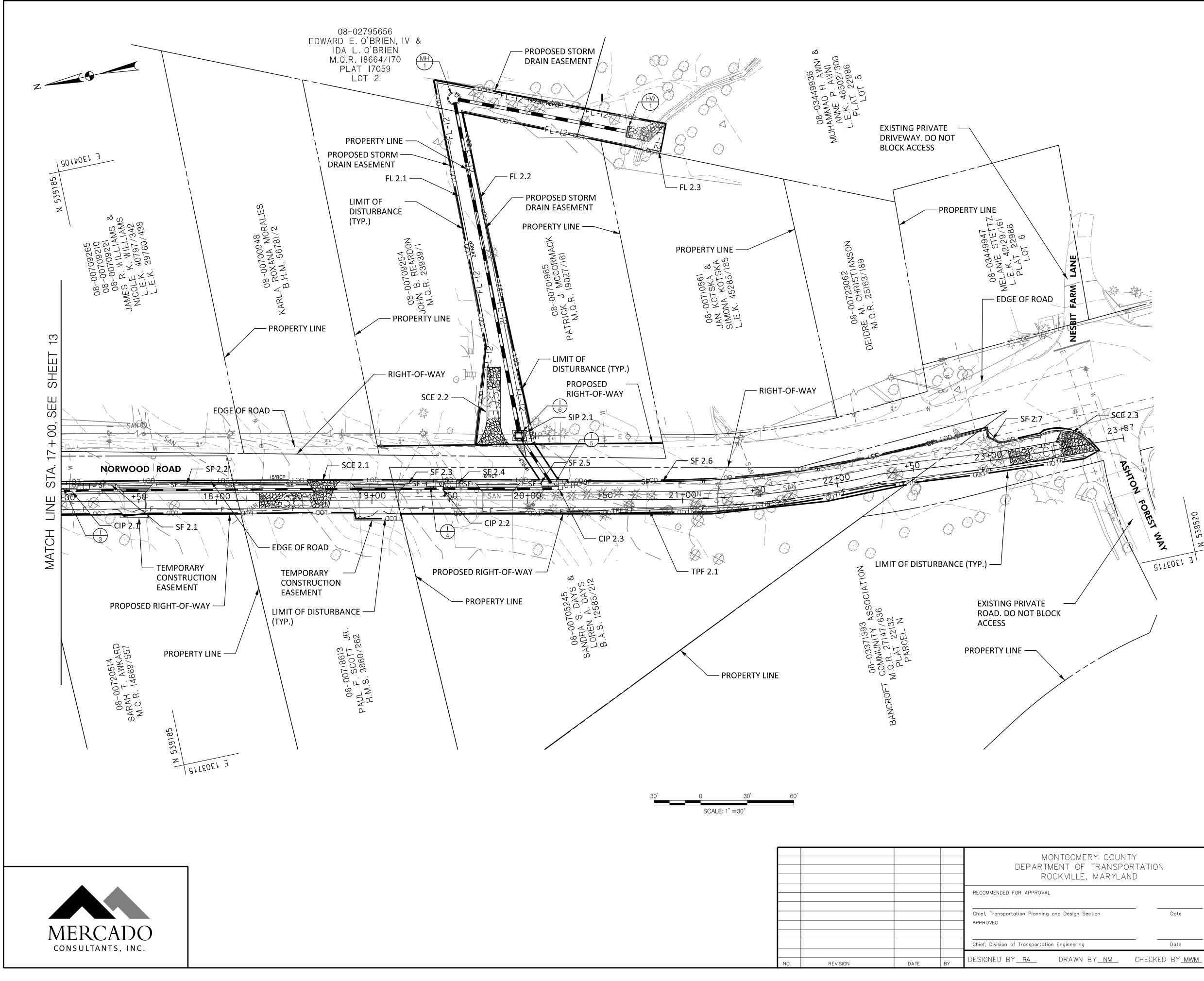






30'	0	30'	60'
	SCALE	: 1"=30'	

				MONTGOMERY DEPARTMENT OF TR ROCKVILLE, M
				RECOMMENDED FOR APPROVAL
				Chief, Transportation Planning and Design Section
				Chief, Division of Transportation Engineering
NO.	REVISION	DATE	BY	DESIGNED BY <u>ra</u> DRAWN BY_



11202023 trojects(1908/1908.04 Sandy Spring Bikeway\06 Water Resources\ESC\pES-P002\_Norwo

INLET PROTECTION (IP)					
ID NO.	STATION	QUATITY	DRAINAGE AREA (AC)		
CIP 2.1	STA. 17+04, LT	1 EA	0.45		
CIP 2.2	STA. 19+40, LT	1 EA	0.67		
CIP 2.3	STA. 20+15, LT	1 EA	0.75		
SIP 2.1	STA. 19+90, LT	1 EA	0.70		

STABILIZED CONSTRUCTION ENTRANCE (SCE)				
ID NO.	QUATITY	STATION		
SCE 2.1	1 EA	STA. 18+28		
SCE 2.2	1 EA	STA. 19+70, LT		
SCE 2.3	1 EA	STA. 23+12		

SILT FENCE			
ID NO.	QUATITY	STATION	
SF 2.1	24 LF	STA. 17+11, LT	
SF 2.2	98 LF	STA. 17+62, LT	
SF 2.3	12 LF	STA. 19+23, LT	
SF 2.4	18 LF	STA. 19+47, LT	
SF 2.5	12 LF	STA. 19+97, LT	
SF 2.6	270 LF	STA. 20+26, LT	
SF 2.7	41 LF	STA. 22+98, LT	

12-INCH FILTER LOG				
ID NO.	QUATITY	STATION		
FL 2.1	376 LF	STA. 19+88, LT		
FL 2.2	333 LF	STA. 20+03, LT		
FL 2.3	24 LF	STA. 20+77, LT		

TREE PROTECTION FENCE (TPF)				
ID NO. QUATITY STATION				
TPF 2.1	367 LF	STA. 19+95, RT		

	IPF 2.1	36	/ LF		2	TA. 19+95,	, KI
	LEG	<u>END</u>					
	— LO	D ——	LIMIT	s o	F DIS	STURBA	NCE
I	⊢—_s	Fi	SILT	FEN	CE		

STABALIZED CONSTRUCTION

 ENTRANCE

 SIP
 STANDARD INLET PROTECTION

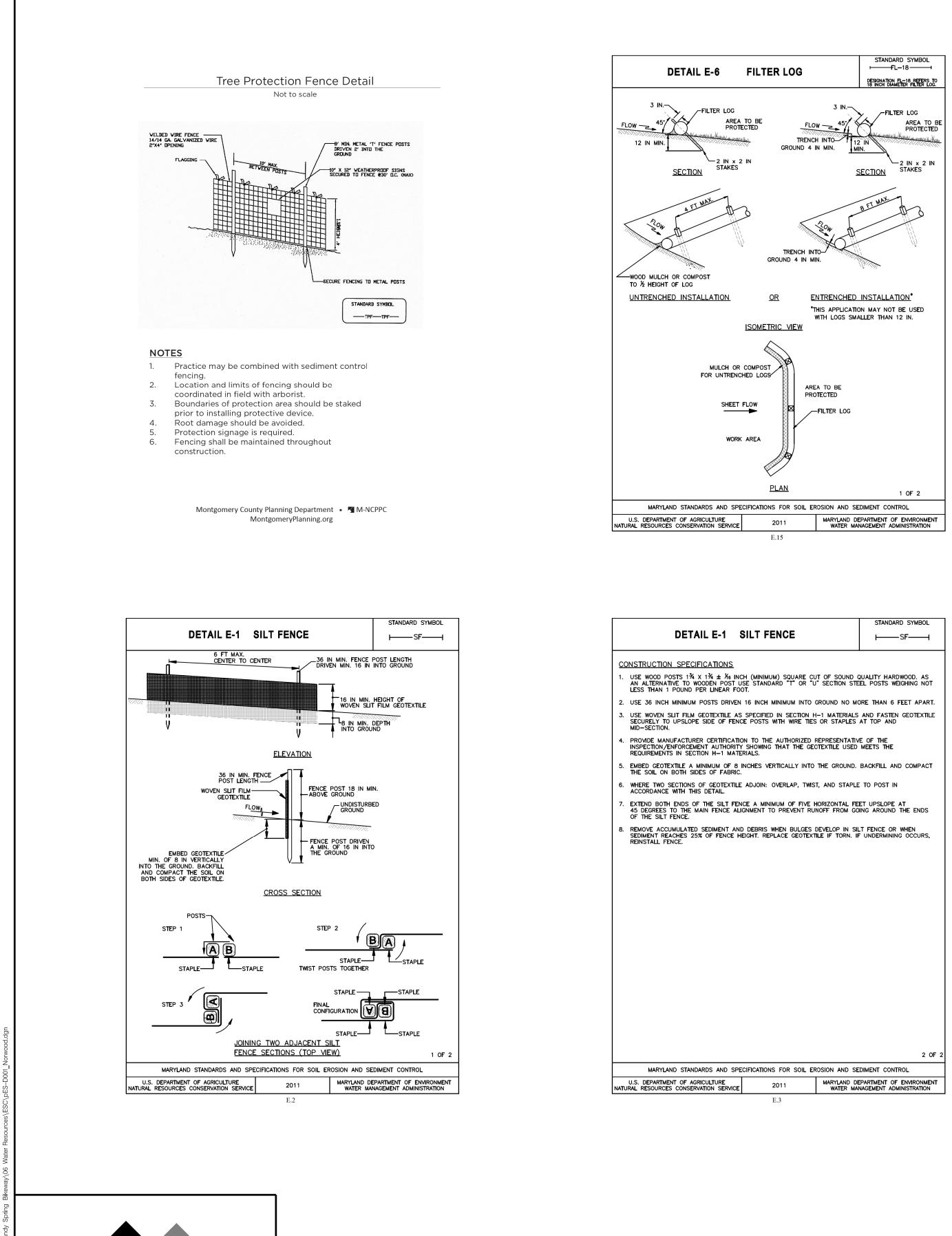
 CIP
 CURB INLET PROTECTION

 Ref
 TREE TO BE REMOVED

 TPF
 TREE PROTECTION FENCE

├─FL-I2─┤ 12" FILTER LOG

	SC0007
COUNTY ANSPORTATION RYLAND	MONTGOMERY COUNTY DEPARTMENT OF TRANSPORTATION DIVISION OF TRANSPORTATION ENGINEERING
	NORWOOD ROAD SHARED USE PATH
Date	
	EROSION AND SEDIMENT CONTROL PLAN
Date	SCALE <u>1"=30'</u> DATE <u>NOVEMBER, 2023</u>
NMCHECKED_BY_MWM	SHEET NO. <u>16</u> OF <u>20</u>

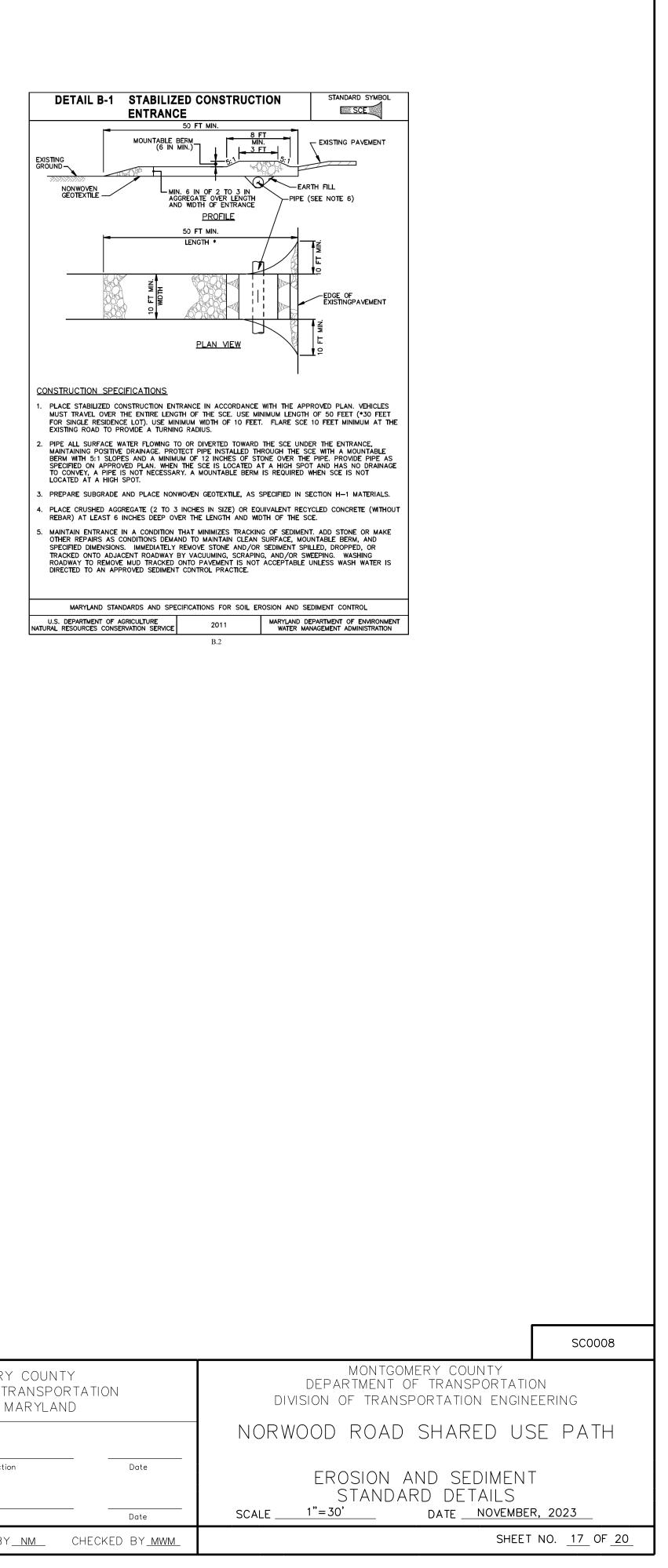


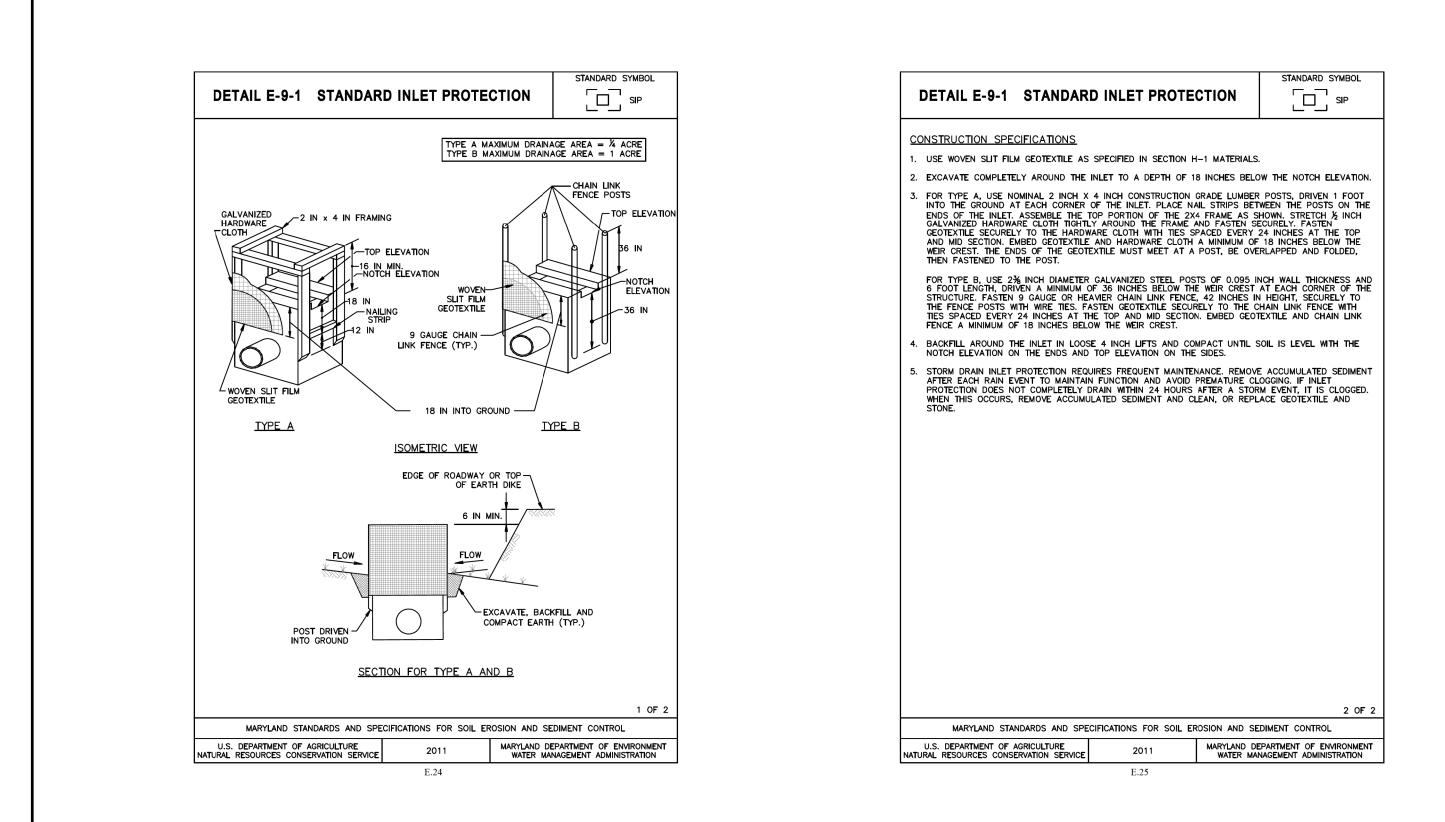


	STANDARD SYMBOL
SILT FENCE	⊢SFI

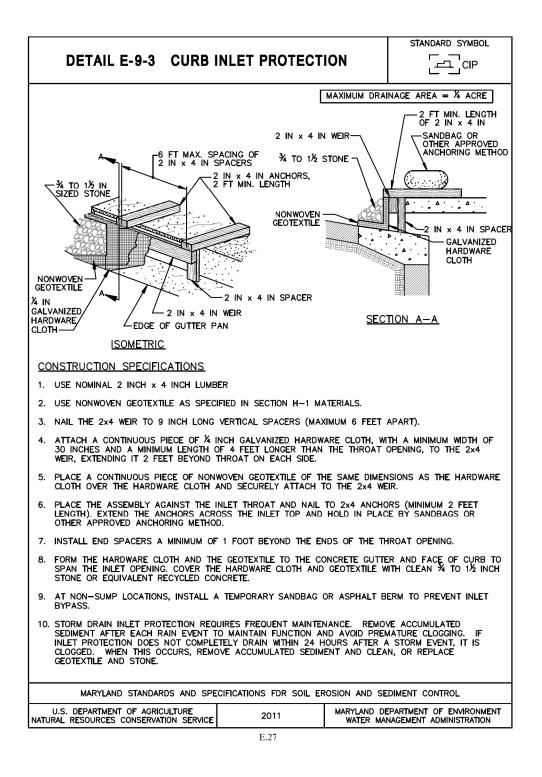
	STANDARD SYMBOL
DETAIL E-6 FILTER LOG	DESIGNATION FL-18 REFERS TO 18 INCH DIAMETER FILTER LOG.
CONSTRUCTION SPECIFICATIONS	
1. PRIOR TO INSTALLATION, CLEAR ALL OBSTRUCTIONS INCLUDING ROCKS, CLOD THAN ONE INCH THAT MAY INTERFERE WITH PROPER FUNCTION OF FILTER LC	
<ol> <li>FILL LOG NETTING UNIFORMLY WITH COMPOST (IN ACCORDANCE WITH SECTION OTHER APPROVED BIODEGRADABLE MATERIAL TO DESIRED LENGTH SUCH THAT</li> </ol>	N H–1 MATERIALS), OR
<ol> <li>INSTALL FILTER LOGS PERPENDICULAR TO THE FLOW DIRECTION AND PARALL THE BEGINNING AND END OF THE INSTALLATION POINTING SLIGHTLY UP THE SHAPE AT EACH END TO PREVENT BYPASS.</li> </ol>	el to the slope with
4. FOR UNTRENCHED INSTALLATION BLOW OR HAND PLACE MULCH OR COMPOSI SLOPE ALONG LOG.	ON UPHILL SIDE OF THE
<ol> <li>STAKE FILTER LOG EVERY 4 FEET OR CLOSER ALONG ENTIRE LENGTH OF LO GROUND A MINIMUM OF 4 INCHES AND STAKE LOG EVERY 8 FEET OR CLOSE</li> </ol>	
6. USE STAKES WITH A MINIMUM NOMINAL CROSS SECTION OF 2X2 INCH AND C ATTAIN A MINIMUM OF 12 INCHES INTO THE GROUND AND 3 INCHES PROTRU	OF SUFFICIENT LENGTH TO DING ABOVE LOG.
7. WHEN MORE THAN ONE LOG IS NEEDED, OVERLAP ENDS 12 INCHES MINIMUM	
8. REMOVE SEDIMENT WHEN IT HAS ACCUMULATED TO A DEPTH OF ½ THE EXP. REPLACE MULCH. REPLACE FILTER LOG IF TORN. REINSTALL FILTER LOG IF U DISLODGING OCCURS. REPLACE CLOGGED FILTER LOGS. FOR PERMANENT APP CONTINUOUSLY MEET REQUIREMENTS FOR ADEQUATE VEGETATIVE ESTABLISHM SECTION B-4 VEGETATIVE STABILIZATION.	NDERMINING OR LICATIONS, ESTABLISH AND
	2 OF 2
MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SE	DIMENT CONTROL
	EPARTMENT OF ENVIRONMENT NAGEMENT ADMINISTRATION
E.16	

				MONTGOMERY DEPARTMENT OF TF ROCKVILLE, N
				RECOMMENDED FOR APPROVAL
				Chief, Transportation Planning and Design Sectio
				Chief, Division of Transportation Engineering
NO.	REVISION	DATE	BY	DESIGNED BY <u>RA</u> DRAWN BY









			-	
				SC0009
	MONTGOMERY COUNTY DEPARTMENT OF TRANSPORTAT ROCKVILLE, MARYLAND	ION	MONTGOMERY COUNTY DEPARTMENT OF TRANSPORTATIC DIVISION OF TRANSPORTATION ENGINE	
	RECOMMENDED FOR APPROVAL		NORWOOD ROAD SHARED US	SE PATH
Image: Sector	Chief, Transportation Planning and Design Section APPROVED Chief, Division of Transportation Engineering	Date Date	EROSION AND SEDIMENT STANDARD DETAILS scale <u>1"=30'</u> date <u>november</u>	
NO. REVISION DATE BY	DESIGNED BY <u>ra</u> Drawn by <u>nm</u> Che	CKED BY <u>mwm</u>	SHEET	NO. <u>18</u> OF <u>20</u>

## PROJECT DESCRIPTION

I. GENERAL

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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.

### <u>GENERAL NOTES</u>

- 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 301-513-7304

MS. AMY ANDREWS ASSISTANT DISTRICT ENGINEER - CONSTRUCTION (ADMIN.) 301-513-7300

VACANT ASSISTANT DISTRICT ENGINEER - CONSTRUCTION (FIELD) 301-513-7336 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

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**TOOLE** DESIGN

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

## EQUIPMENT LIST

			EQUIPMENT LIST A.	
I TEM NUMBER	QU	ΑΝΤΙΤΥ	DESCRIPTION	
NOMBER	2	ΕA	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	
	2	ΕA	SHEET ALUMINUM SIGNS TO CONSIST OF (POLE MOUNT) R10-3(1) SIGN (9 IN. X 15 IN) TO READ " PUSH BUTTON TO CROSS SANDY SPRING ROAD"	
	2	ΕA	R10-3(1) SIGN (9 IN. X 15 IN) TO READ " PUSH BUTTON TO CROSS NORWOOD ROAD"	PHASE 2 AND PED CLEARANC
	1	ΕA	M1-5(1) SIGN (78 IN, X 36 IN) - MAST ARM MOUNT	2 AND 6 CHAN
	2	ΕA	R10-116(1) SIGN (36 IN, X 36 IN) - MAST ARM MOUNT	
	2	ΕA	D-3(2) SIGN (VAR. X 16 IN) - MAST ARM MOUNT	PHASE 4
	1	ΕA	D-3(1) SIGN (VAR. X 16 IN) - MAST ARM MOUNT	PED CLEARANC
			EQUIPMENT LIST B.	4 CHANGE
I TEM NUMBER		ANTITY	DESCRIPTION	FLASHING OPERATION
120500	1 11	LS CY	MAINTENANCE OF TRAFFIC	of ERAHOR
801004 114280	135	LF	CONCRETE FOR SIGNAL FOUNDATION 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	EA	12 INCH LED VEHICULAR TRAFFIC SIGNAL HEAD SECTION	
865300	1	EA	2-WIRE APS CENTRAL CONTROL UNIT	
865210	4	EA	AUDIBLE/TACTILE PEDESTRIAN PUSHBUTTON STATION & SIGNS	
818004	4	ĒA	10 FOOT BREAKAWAY PEDESTAL POLE	
807500	1	ΕA	EMBEDDED METERED SERVICE PEDESTAL	
816105	1	ΕA	TRAFFIC SIGNAL CABINET NEMA SIZE 5	
860285	4	ΕA	16 INCH LED COUNTDOWN PEDESTRIAN SIGNAL HEAD	
873003	1	ΕA	REMOVE AND DISPOSE OF EXISTING SIGNAL EQUIPMENT (PER SIGNALIZED INTERSECTION LOCATION)	
818162	1	ΕA	MAST ARM POLE AND 50' MAST ARM, ANY 'T' DIMENSION, FOUNDATION AND GROUND ROD	
818164	1	ΕA	MAST ARM POLE AND 60' MAST ARM, ANY 'T' DIMENSION, FOUNDATION AND GROUND ROD	
816010	3	ΕA	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	/PS DS
805140	119	LF	4 INCH SCHEDULE 80 RIGID PVC CONDUIT - TRENCHED	/ <sup>PS</sup> / <sup>PS</sup>
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)	- <u>(</u> = = = = = -
861107	891 508	LF	ELECTRICAL CABLE - 5 CONDUCTOR (NO. 14 AWG)	-
861108 803013	508 1	LF EA	ELECTRICAL CABLE – 7 CONDUCTOR (NO. 14 AWG) FURNISH AND INSTALL SIGN/LUMINAIRE SUPPORTS	
803013	6	EA	GROUND ROD – ¾ INCH DIAMETER X 10 FOOT LENGTH	A
001001	0		Choose hop // Inch DIAMETER A TO FOOT LENGTH	

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

I TEM NUMBER	QUANTITY	DESCRIPTION		
	ALL REMOVED MATERIALS ARE <sup>-</sup>	TO BECOME THE PROPERTY OF THE CONTRACTOR		

### MAINTENANCE OF TRAFFIC NOTE

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

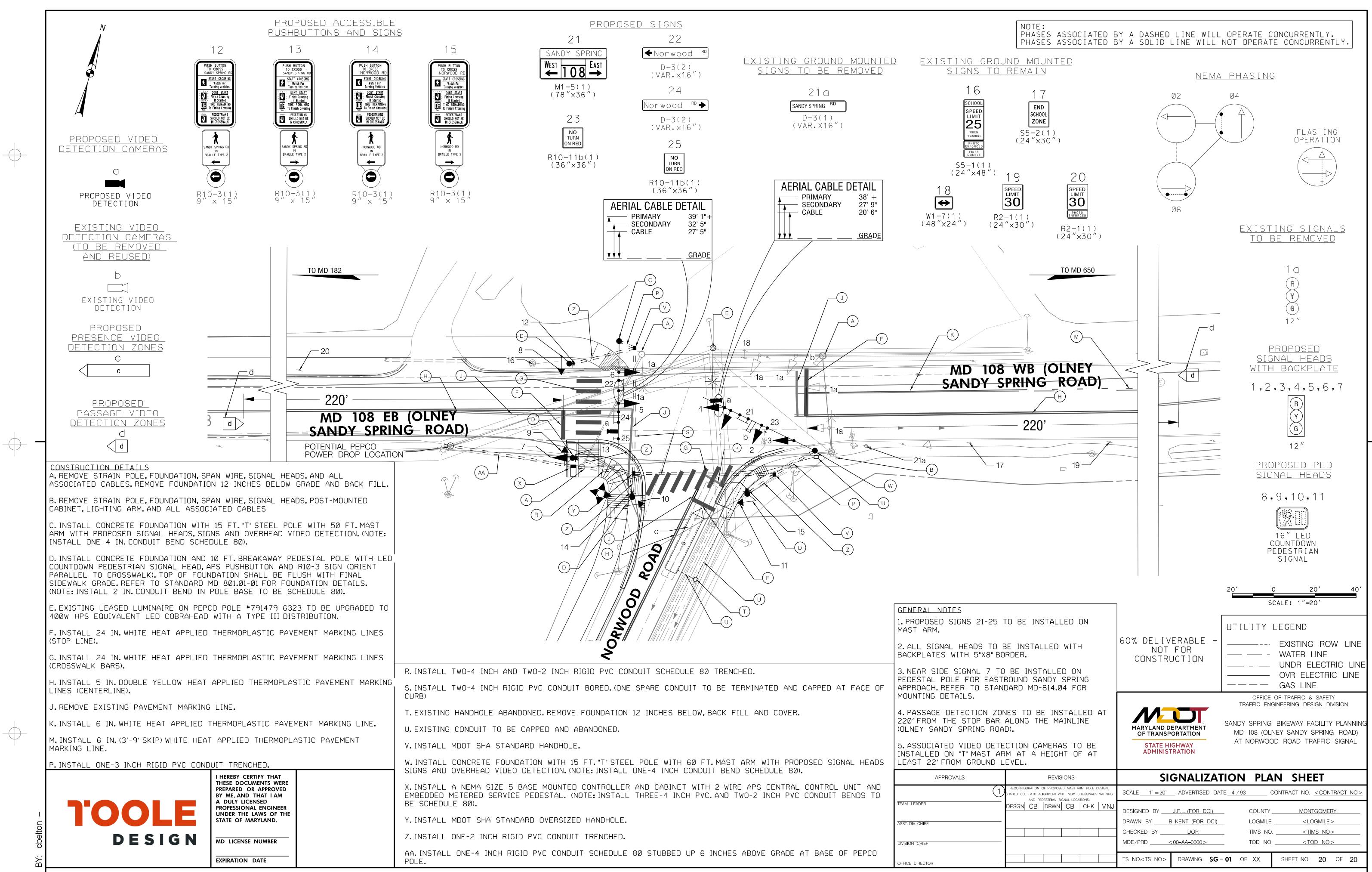
STANDARD NO. 104.03-01 (MULTI-LANE UNDIVIDED SHOULDER WORK) STANDARD NO. 104.04-01 (MULTI-LANE DIVIDED SHOULDER WORK) ADDITIONAL TRAFFIC CONTROL STANDARDS MAY BE USED AS DIRECTED BY THE ENGINEER.

## PHASE CHART

ID 6 INCE HANGE INCE K.O.S FL	1 R Y G R R R G G Y	2 (R) (Y) (G) (R) (R) (R) (R)	3 (R) (Y) (G) G G	4 (R) (Y) (G)	5 (R) (Y)	6 (R)	7 (R)	8	9	10	11		
ID 6 INCE HANGE INCE KOOS FL KCOS C LOS LOS	Y G R R R G G	Y     G     R     R     R	Y     G	G	Ŷ	$\succ$							
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HANGE	R G G	R	G	G	G	G	G	DW	DW	WK	WK		
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NCE	G		Y	Y	Y	Y	Y	DW	DW	DW	DW	•	• 
K,O,S FL C C L,F		G G	R R	R	R R	R	R	WK	WK	DW	DW	•	
K,O,S K,O,S K O C L,F	-	Y	R	R R	R	R R	R R	FL⁄DW DW	FL/DW DW	DW DW	DW DW	i   <b>↓</b>  -	
K,O,S K,O,S K O C L,F	L /R	FL /R	FL /Y	FL /Y	FL /Y	FL /Y	FL /Y	DARK	DARK	DARK	DARK	-	
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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).



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