#### SEE SHEETS I-01 FOR FULL SHEET INDEX

#### **OWNER'S CERTIFICATION**

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

DATE

TIM CUPPLES, P.E. CHIEF, DIVISION OF TRANSPORTATION ENGINEERING

#### **DESIGN CERTIFICATION**

I HEREBY CERTIFY THAT THIS PLAN HAS BEEN PREPARED IN ACCORDANCE WITH THE "1994 MARYLAND STANDARDS AND SPECIFICATIONS 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 TRANSPORTATION "STORM DRAIN DESIGN CRITERIA" DATED AUGUST 1988.

DATE

CARRIE CASTO, P.E. MD. REGISTRATION NO. 28397

#### **CERTIFICATION OF THE QUANTITIES**

I HEREBY CERTIFY THAT THE ESTIMATED TOTAL AMOUNT OF EXCAVATION AND FILL AS SHOWN ON THESE PLANS HAS BEEN COMPUTED TO XXXX CUBIC YARDS OF EXCAVATION, XXX CUBIC YARDS OF FILL AND THE TOTAL AREA TO BE DISTURBED AS SHOWN ON THESE PLANS HAS BEEN DETERMINED TO BE XXXX SQUARE FEET.

DATE

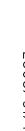
CARRIE CASTO, P.E. MD. REGISTRATION NO. 28397

The following standards (construction and temporary traffic control) are required for this project:

G. MD 630.01 - Standard Entrance Construction Residential & Commerial Method No.1 H. MD 630.02 - Standard Entrance Construction Residential & Commerial Method No.2			
<ul> <li>C. MD 383.01 - Standard Manhole</li> <li>D. MD 386.11 - Standard Junction Box</li> <li>E. MD 620.02-01 - Standard Types C And D Concrete Curb and Combination Concrete Curb &amp; Gutter</li> <li>F. MD 620.03 - Depressed Curb for Combination Curb and Gutter and Depressed Curb for Sidewalk Ramp</li> <li>G. MD 630.01 - Standard Entrance Construction Residential &amp; Commerial Method No.1</li> <li>H. MD 630.02 - Standard Entrance Construction Residential &amp; Commerial Method No.2</li> </ul>	A. MD 3	374.31	- Standard C 0 G Inlets 5', 10', 15' & 20'
<ul> <li>D. MD 386.II - Standard Junction Box</li> <li>E. MD 620.02-0I - Standard Types C And D Concrete Curb and Combination Concrete Curb &amp; Gutter</li> <li>F. MD 620.03 - Depressed Curb for Combination Curb and Gutter and Depressed Curb for Sidewalk Ramp</li> <li>G. MD 630.01 - Standard Entrance Construction Residential &amp; Commerial Method No.1</li> <li>H. MD 630.02 - Standard Entrance Construction Residential &amp; Commerial Method No.2</li> </ul>	B. MD 3	374.68	- Precast or Cast-In-Place C 0 G/C 0 S Opening for 8"Curb 5' or 10' Only
<ul> <li>MD 620.02-01 - Standard Types C And D Concrete Curb and Combination Concrete Curb &amp; Gutter</li> <li>F. MD 620.03 - Depressed Curb for Combination Curb and Gutter and Depressed Curb for Sidewalk Ramp</li> <li>G. MD 630.01 - Standard Entrance Construction Residential &amp; Commerial Method No.1</li> <li>H. MD 630.02 - Standard Entrance Construction Residential &amp; Commerial Method No.2</li> </ul>	C. MD 3	383.01	- Standard Manhole
F. MD 620.03 - Depressed Curb for Combination Curb and Gutter and Depressed Curb for Sidewalk Ramp G. MD 630.01 - Standard Entrance Construction Residential & Commerial Method No.1 H. MD 630.02 - Standard Entrance Construction Residential & Commerial Method No.2	D. MD 3	386.11	- Standard Junction Box
G. MD 630.01 - Standard Entrance Construction Residential & Commerial Method No.1 H. MD 630.02 - Standard Entrance Construction Residential & Commerial Method No.2	E. MD 6	620.02-01	- Standard Types C And D Concrete Curb and Combination Concrete Curb & Gutter
H. MD 630.02 - Standard Entrance Construction Residential & Commerial Method No. 2	F. MD 6	620.03	- Depressed Curb for Combination Curb and Gutter and Depressed Curb for Sidewalk Ramps
	G. MD 6	630.01	- Standard Entrance Construction Residential & Commerial Method No. I
IND SEE II Sidowalk Rampo Porportioular	H. MD 6	630.02	- Standard Entrance Construction Residential & Commerial Method No. 2
I. MU 000,II - SIGEWAIK KAIIIPS FEFPEHAICAIAI	I. MD 6	655 <b>.</b> II	- Sidewalk Ramps Perpendicular
J. MD 655.12 - Sidewalk Ramps Parallel	J. MD 🤅	655.12	- Sidewalk Ramps Parallel
K. MD 655.13 - Sidewalk Ramps Combination	K. MD 6	655.13	- Sidewalk Ramps Combination
L. MD 655.40 - Detectable Warning Surfaces	L. MD 6	655.40	- Detectable Warning Surfaces
M. MC-100.01 - Combination Concrete Curb and Gutter - Type A	M. MC-I	-100.01	- Combination Concrete Curb and Gutter - Type A
N. MC-102.01 - Depressed Curb Entrance	N. MC-I	-102.01	- Depressed Curb Entrance
0. MC-III.01 - Business District Sidewalk	0. MC-I	-111.01	- Business District Sidewalk

For all standards referred to on the plans the contractor must go to the MDOT SHA Book of Standards or Montgomery County design standards which will have the most current version. The Book of Standards can be accessed at:

http://apps.roads.maryland.gov/businesswithsha/bizStdsSpecs/desManualStdPub/ publicationsonline/ohd/bookstd/index.asp https://www.montgomerycountymd.gov/dot-dte/common/standards.html



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CADD

Stantec	RP
, Suite 300	Bicycle and Pedestr

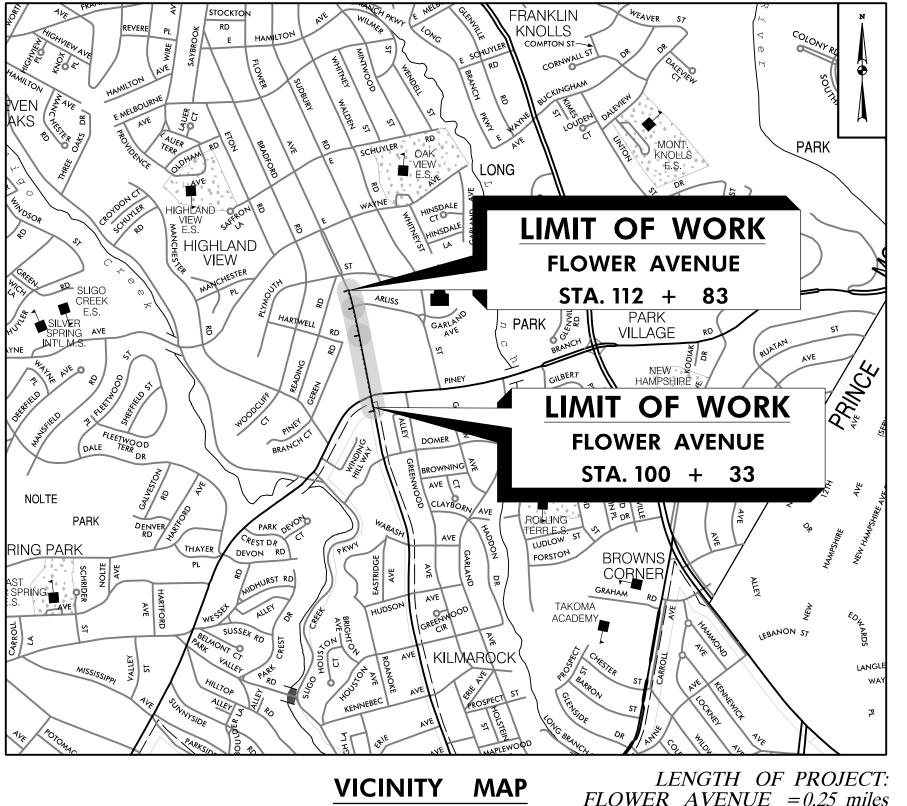
PROFESSIONAL CERTIFICATION: I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND. LICENSE NO: EXPIRATION DATE:

810 Gleneagles Court, Suite 300 Baltimore, MD 21286 www.stantec.com

# **MONTGOMERY COUNTY DEPARTMENT OF TRANSPORTATIO** FLOWER AVENUE SEPARAT **BIKE LANES**

FROM PINEY BRANCH ROAD TO ARLISS STREET

# CIP PROJECT NO. 502004 35% SUBMITTAL, NOVEMBER 2023



· · · · · · · · · · · · · · · · · · ·				
LF	ENGTH	OF	PRO	IEC
FLOWER				
I LO WLK			-0.25	1111

				RELA	ATED	REQUIRED F	PERMITS			
	ĺ	IT IS THE RESPONSIBILTY OF PERMITTEE/OWNER OF THIS SITE TO OBTAIN ALL REQUIRED PERMITS PRIOR TO ISSUANCE OF APPROVED SEDIMENT CONTROL PERMIT								
N	TYPE OF PEF	RMIT	REQD	NOT REQD	PERMIT NO.	EXPRIATION DATE	WORK RESTRICTION DATES			
N FED	MCDPS Floodplain Dis	trict		х						
	WATERWAY/WETLAN	ID(S)								
		a. Corps of Engine	ers		Х					
		b. MDE			Х					
		c. MDE Water Certification			х					
	·	MDE Dam Safe	ty		х					
		DPS Roadside Tre Protection Plan		x			Approval Date	-		
		N.P.D.E.S. NOTICE OF INTEN	T	x						
	FEMA LOMR (Requir Construction		x							
	SHA Access Perr	nit: X								
		M-NCPPC Parks P	ermit:		Х					
		MCDPS SEDIMENT CON	TROL	x						
TREE CANOPY REQ To be completed by the consultant a Sediment Control/Stormwater Mana Exempt: Yes I No I If exempt under Section applicable exemption category below this table.	nd placed on the first sheet c igement plan set for all projec 55-5 of the Code, please list	cts t the			Disturbance m 01 01		Shade Trees Number of Shade Trees Required 3 6 9 12			
Project is subject to Chapter 22A-9 of the Mon			12, 14,		40,000	12				
Total Property Area	Area				imits of disturbance is ed must be calculated					
square feet					-	are Feet in Limits of D				
Shade Trees Required				(			,	, ···-		
26	22				e list the s of the pla	square footage of each in set.	proposed planting	area on the first		
<b>Fee in Lieu</b> (Trees Required - Trees Proposed) × \$250	Total Disturbed \$\$1,000	Area								

		VICIN	ITY MA	P	LENGTH OF PROJ		DESIGN TI	RAFFIC DATA	IC DATA	
	<b>SCALE:</b> $1'' = 1000'$				OWER  AVENUE = 0.25	mmes	ROADWAY	FLOWER	AVENUE	
							CONTROLS / YEARS	2022	2045	
							AVERAGE DAILY TRAFFIC (A.D.T.	11900	13400	
							DESIGN HOURLY VOLUME (D.H.V.)	1080	1300	
							DIRECTIONAL DISTRIBUTION	50.7%	50.7%	
							% TRUCKS - A.D.T.	2.8%	2.8%	
							% TRUCKS - D.H.V.	1.7%	1.7%	
							DESIGN SPEED M.P.H.		MPH	
							FUNCTIONAL CLASSIFICATION		R COLLECTOR	
_					1		CONTROL OF ACCESS	NO		
	OWNER				PROJECT MANAGER		INTENSITY OF DEVELOPMENT	URE		
	TIM CUPPLES, PI				KHURSHEED BILGRAMI, P		TERRAIN		LING	
	100 Edison Park Drive, 4th Floor100 Edison Park Drive, 4th FloorGaithersburg, MD 20878Gaithersburg, MD 20878						ANTICIPATED POSTED SPEED	25	MPH	
	240-777-7214				Gaithersburg, MD 208					
		ntgomerycountyma	d.gov			montgomerycountymd.gov			TI-01	
ſ	NO. RI	EVISION	BY AP	P'D DATE	DESIGNED BY: UMK	DATE: NOVEMBER, 2023	DEPARTMENT OF TR	ANSPORTA	TION	
					DRAWN BY: UMK	DATE: NOVEMBER, 2023				
-					CHECKED BY: CC	DATE: NOVEMBER, 2023	DIVISION OF TRANSPORT			
					DRAWING NO.:	DATE:	MONTGOMERY COUN	NTY, MARYLA	ND	
					RECOMMENDED FOR APPR	OVAL				
					_		FLOWER A	VENILE		
					Chief, Design Section	Date	—		_	
							SEPARATED BI	KE LANES	$\geq$	
					APPROVED		TITLE S	HEET		
riority Areas					$1 - \frac{1}{2}$		_			
					_ Chief, Division of Transportation	Date n Engineering	SCALE: N.T.S.	SHEET <u>0I</u>	of 40	

#### **MISS UTILITY**

THE CONTRACTOR SHALL CALL "MISS UTILITY" AT 1-800-257-7777, 48 HOURS PRIOR TO THE START OF WORK. THE CONTRACTOR IS RESPONSIBLE FOR ENSURING THAT ALL UNDERGROUND UTILITIES IN THE AREA OF PROPOSED WORK ARE LOCATED PRIOR TO COMMENCING CONSTRUCTION WORK. THE CONTRACTOR IS RESPONSIBLE FOR COMPLIANCE WITH REQUIREMENTS OF CHAPTER 36A OF THE MONTGOMERY COUNTY CODE.

THE CONTRACTOR IS ALSO RESPONSIBLE FOR LOCATING ALL PRIVATE UTILITIES (NOT LOCATED BY MISS UTILITY) WITHIN HOA PROPERTY AT THEIR EXPENSE. ALL UTILITIES SHOWN ON THE PLANS ARE PROVIDED FOR INFORMATION ONLY AND SHALL BE CONSIDERED APPROXIMATE. HOA SHALL NOT BE RESPONSIBLE FOR LOCATING UNDERGROUND UTILITIES. ANY UTILITIES OR OTHER UNDERGROUND FACILITIES DAMAGED DURING CONSTRUCTION SHALL BE REPAIRED/REPLACED AT THE CONTRACTOR'S SOLE EXPENSE.

Sheet No.	Drawing No.	Sheet Name
01	TI-01	TITLE SHEET
02	I-01	INDEX OF SHEETS
03	GN-01	GENERAL NOTES
04	AB-01	ABBREVIATIONS AND SYMBOLS
05	GS-01	GEOMETRIC LAYOUT
06	GS-02	GEOMETRIC LAYOUT
07	TS-01	TYPICAL SECTIONS
08	TS-02	TYPICAL SECTIONS
09	DT-01	ROADWAY DETAIL SHEET
10	DT-02	PAVEMENT DETAIL SHEET
11	HD-KY	ROADWAY KEY PLAN
12	PS-01	ROADWAY PLAN
13	PS-02	ROADWAY PLAN
14	PS-03	ROADWAY PLAN
15	HP-01	ROADWAY PROFILE
16	HP-02	ROADWAY PROFILE
17	DD-01	DRAINAGE SCHEDULES
18	DA-01	EXISTING CONDITIONS DRAINAGE AREA MAP
19	DA-02	EXISTING CONDITIONS DRAINAGE AREA MAP
20	DA-03	PROPOSED CONDITIONS DRAINAGE AREA MAP
21	DA-04	PROPOSED CONDITIONS DRAINAGE AREA MAP
22	ESN-01	EROSION AND SEDIMENT CONTROL NOTES
23	ESN-02	EROSION AND SEDIMENT CONTROL NOTES AND DETAILS
24	ES-01	EROSION AND SEDIMENT CONTROL/STORMWATER MANAGEMENT PLAN
25	ES-02	EROSION AND SEDIMENT CONTROL/STORMWATER MANAGEMENT PLAN
26	ES-03	EROSION AND SEDIMENT CONTROL/STORMWATER MANAGEMENT PLAN
27	LP-01	LANDSCAPE PLAN
28	LP-02	LANDSCAPE PLAN
29	LP-03	LANDSCAPE PLAN
30	LP-04	LANDSCAPE PLAN NOTES AND DETAILS
31	SND-01	SIGNING AND MARKING DETAILS
32	SN-01	SIGNING AND MARKING PLAN
33	SN-02	SIGNING AND MARKING PLAN
34	SN-03	SIGNING AND MARKING PLAN
35	SN-04	SIGNING AND MARKING SCHEDULE
36	SG-01	SIGNALIZATION PLAN
37	SG-02	SIGNALIZATION NOTES
38	LT-01	LIGHTING PLAN
39	LT-02	LIGHTING PLAN
40	LT-03	LIGHTING PLAN



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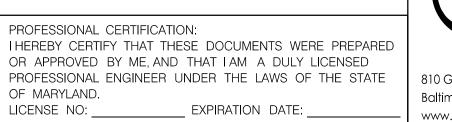


# INDEX OF SHEETS

	NO.	REVISION	BY	APP'D	DATE	DESIGNED BY: UMK	DATE: NOVEMBER,	2023
					Df	DRAWN BY: UMK	DATE: NOVEMBER,	2023
						CHECKED BY: CC	DATE: NOVEMBER, 2	
						DRAWING NO.:	DATE:	
						RECOMMENDED FOR APPROVAL		Date
ian Priority Areas	In Priority Areas					Chief, Division of Transportation Eng	ineering	Date

3 3 3	DEPARTMENT OF TRANSPORTATION DIVISION OF TRANSPORTATION ENGINEERING MONTGOMERY COUNTY, MARYLAND
te	FLOWER AVENUE Separated bike lanes index of sheets
te	SCALE: NONE SHEET 02 of 40

- I. THE SPECIFICATIONS FOR THIS CONTRACT WILL BE THOSE OF THE MARYLAND STATE HIGHWAY ADMINISTRATION DATED JULY 2023. ALL ERATA AND ADDENDA THERETO, AND THE MARYLAND STATE HIGHWAY ADMINISTRATION BOOK OF STANDARDS FOR HIGHWAY AND INCIDENTAL STRUCTURES.
- 2. FOR CONSTRUCTION, HORIZONTAL SHALL BE BASED ON NAD 83/9IDATUM AND VERTICAL SHALL BE BASED ON NAVD 1988 DATUM.
- 3. 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.
- 4. 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.
- 5. CALL "MISS UTILITY" AT I-800-257-7777 FORTY-EIGHT (48) HOURS PRIOR TO BEGINNING EXCAVATION TO DETERMINE THE EXACT LOCATION OF EXISTING UTILITIES.
- 6. CLEARING IS TO BE LIMITED TO THE "LIMIT OF DISTURBANCE" AS SHOWN ON THE PLANS.
- 7. ALL GRADING SHALL BE DONE IN SUCH A MANNER AS TO PROVIDE POSITIVE DRAINAGE.
- 8. DISTURBED AREAS ADJACENT TO ESTABLISHED LAWNS AND WATER QUALITY SWALES SHALL BE SODDED. OTHER DISTURBED AREAS SHALL BE SEEDED AND MULCHED.
- 9. 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
- IO. THE LOCATION OF RIGHT-OF-WAY AND EASEMENT LINES SHOWN ON THE PLANS ARE FOR INFORMATION AND GUIDANCE ONLY. NO GUARANTEE IS MADE AS TO THE ACCURACY OF SAID LOCATIONS. PLEASE REFER TO THE APPROPRIATE RIGHT-OF-WAY PLATS.
- II. THE CONTRACTOR SHALL INSTALL PEDESTRIAN DETECTABLE WARNING SURFACES AT ALL SIDEWALK & PEDESTRIAN CROSSINGS. LOCATIONS AS DIRECTED BY THE ENGINEER. THE WARNING SURFACES SHALL BE IN CONFORMANCE WITH ADA REQUIREMENTS AND THE PROJECT SPECIAL PROVISION.
- 12. THE DESIGN FOR THIS PROJECT HAS INCORPORATED FACILITIES FOR THE ELDERLY AND HANDICAPPED IN COMPLIANCE WITH STATE AND FEDERAL LEGISLATION.
- 13. ALL PROPOSED BUS STOPS SHALL BE ADA COMPLIANT.





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# GENERAL NOTES

SURVEY

2. DATE OF SURVEY:

- I. HORIZONTAL DATUM: MARYLAND STATE PLANE COORDINATE SYSTEM NAD 83/91 NAVD 1988 VERTICAL DATUM: SURVEY UNIT: SURVEY FEET
  - SEPTEMBER, 2022 SURVEY PERFORMED BY: MONTGOMERY COUNTY DEPARTMENT OF TRANSPORTATION 100 EDISON PARK DRIVE, 4TH FLOOR GAITHERSBURG. MD 20878
- 3. ALL DIMENSIONS, STATIONS, AND ELEVATIONS ARE IN SURVEY FEET UNLESS OTHERWISE SHOWN.

THE CONTRACTOR IS RESPONSIBLE FOR VERIFYING EXISTING TOPOGRAPHIC FEATURES AND ELEVATIONS, ABOVE AND BELOW GROUND, PRIOR TO BEGINNING CONSTRUCTION IN THE FIELD.

THE CONTRACTOR SHALL BRING TO THE NOTICE OF THE ENGINEER ANY DISCREPANCY BETWEEN THE PLANS AND ACTUAL FIELD CONDITIONS.

4. A BOUNDARY SURVEY WAS PERFORMED. IF ANY DISPUTE ARISES AS TO THE LOCATION OF RIGHT-OF-WAY LINES, PROPERTY LINES, OWNERSHIP, ETC., ADDITIONAL CONSULATATION WITH A MARYLAND-LICENSED SUREVEYOR IS ADVISED.

UTILITES

I. DATE OF INVESTIGATION: UTILITY INVESIGATION PERFORMED BY:

ALL UTILITY MAPPING (QUALITY LEVEL D) WAS PREPARED BASED ON RECORDS PROVIDED BY UTILITY OWNERS FOR THIS PROJECT. 2. THE CONTRACTOR SHALL NOTIFY MISS UTILITY ONE CALL (811 OR 800-257-7777) 48 HOURS BUT NOT MORE THAN IO DAYS PRIOR TO ANY EXCAVATION WORK.

3. IT IS THE CONTRACTOR'S RESPONSIBILITY TO LOCATE ALL UTILITIES PRIOR TO BEGINNING EXCAVATION.

4. THE FOLLOWING UTILITY COMPANIES SHALL ALSO BE SPECIFICALLY NOTIFIED SIX WEEKS PRIOR TO THE BEGINNING OF CONSTRUCTION:

> PEPCO, ED KOVAR, 301-548-4340 AT&T, GARY WIGFIELD, 301-874-1180 FIBERLIGHT, MIKE JOHNSON, 678-347-9265 WASHINGTON GAS LIGHT COMPANY, COLIN BURKE, 703-750-5541 COMCAST, DWAYNE DOUTY, 301-456-8957 WASHINGTON SUBURBAN SANITARY COMMISSION, KEVIN LETHBRIDGE. 301-206-7339 VERIZON, JON BOBEL, 301-282-2942 VERIZON BUSINESS, ADAM RICE, 571-220-8978

- 24 INCHES OF A GAS FACILITY.

	NO. REVISION		BY	APP'D	DATE	DESIGNED BY: UMK	DATE: NOVEMB	ER, 2023	
						DRAWN BY: UMK	DATE: NOVEMB	ER, 2023	
						CHECKED BY: CC	DATE: NOVEMB	ER, 2023	
						DRAWING NO.:	DATE:		
						RECOMMENDED FOR APP	ROVAL	Date	
ian Priority Areas						Chief, Division of Transportati	on Engineering	Date	

OCTOBER, 2022

AB CONSULTANTS, INC. 9450 ANNAPOLIS ROAD LANHAM, MD 20706 PHONE: (30I) 306-309I FAX: (30I) 306-3092

5. NO MECHANIZED EQUIPMENT SHALL BE USED FOR EXCAVATION IN CLOSE PROXIMITY TO UTILITIES. CONTRACTOR SHALL HAND DIG ONLY.

6. THE CONTRACTOR SHALL USE HAND EXCAVATION METHODS WHEN EXCAVATION OCCURS WITHIN

7. THE CONTRACTOR IS RESPONSIBLE FOR SUPPORTING AND PROTECTING EXISTING UTILITIES AS DIRECTED BY THE ENGINEER AND UTILITY OWNER. THE CONTRACTOR IS RESPONSIBLE FOR ANY DAMAGES TO EXISTING UTILITIES DUE TO NEGLIGENCE.

> DEPARTMENT OF TRANSPORTATION DIVISION OF TRANSPORTATION ENGINEERING MONTGOMERY COUNTY, MARYLAND FLOWER AVENUE SEPARATED BIKE LANES GENERAL NOTES SCALE: NONE SHEET<u>03</u> of <u>40</u>

GN-01

		AD	BREVIATIONS
A.A.S.H.T.O.	American Association of State Highway	H.D.P	High Density Polyetheylene
	Transportation Officials	HDWL	Headwall
ABUT	Abutment	HERCP.	Horizontal Elliptical Reinforced
ADT	Average Daily Traffic		Concrete Pipe
AHD		H P	High Point
	Approximate		Headlight Sight Distance
₿_ or B/L		IN	0 0
BK			Inlet Sediment Trap
BIT		INV	•
	Bituminous Concrete		Junction Box
	Bench Mark	У.В К	
	Bottom of Footing	L	8
BOT			Linear Feet
BRG			Liquid Limit
	Center of Curve		Limit of Disturbance
	Cable Television		Longitudinal
	California Bearing Ratio	L.P	Light Pole
C.J	Contraction Joint	LT	Left
₢ or C⁄L	Centerline	MAC	Macadam
CL	Class or Clear	MC	Moisture Content
CLF	Chainlink Fence	MAX	Maximum
СМР	Corrugated Metal Pipe	MDD	Maximum Dry Content
С.О.	÷ ·	MOD	-
	Combination	MIN	
CONC			Managed Roadway
			Mechanically Stablilized Earth
COR		N	-
CORR			
			Northbound
C.Y			Northeast
	Degree of Curve	NO	
	Design Hourly Volume		Non-Plastic
D.I	•		Not To Scale
DIA			On Center
	Double Opening		Overhead
D.S	Design Speed	OMC	Optimum Moisture
DWG	Drawing	PAV' T	Pavement
Ε	East	PC	Point of Curvature
Ε	Electric	PCC	Point of Compound Curvature
e	External Distance	P/C	Point of Crown
EA	Each	P/GE	Profile Grade Elevation
EB			Profile Grade Line
	Expansion Joint		Profile Ground Line
EL. or ELEV.		PL	
	Elliptical Reinforced Cement	—	Point of Rotation
	Concrete Pipe		Plasticity Index
	End Section		Point of Intersection
EX. or EXIST.			Point On Curve
	5		
FT			Point On Tangent
F or FL			Proposed
	Flat Bottom Ditch		Proposed Right of Way
	Fire Hydrant		Proposed
F.O			Point of Reverse Curve
	Face of Curb	PT	
F.S	Full Super Elevation	PT	Point of Tangency
FWD	Forward	PVC	Point of Vertical Curve
G		P.V.C.	Polyvinyl Chloride
GL			Point of Vertical Intersection
	General Purpose Roadway		Point of Vertical Reverse Curve
G.V			Point of Vertical Tangency
J. V	_ Jub valve	· · · ·	

# CADD\700 700 $\circ$

\_\_\_\_\_

PROFESSIONAL CERTIFICATION: I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND. LICENSE NO: \_\_\_ EXPIRATION DATE: \_\_\_

810 Gleneagles Court, Suite 300

Baltimore, MD 21286 www.stantec.com



W.S. \_\_\_\_\_Wrapped Steel

R Radius				
REINF Reinforcement				
REQ'D Required		SY	(MBOLS	
R.FRock Fragments				
RT Right RW or R/W Right of Way	EXISTING RIGHT OF WAY LINE			
R.C.P Reinforced Cement Pipe	PROPOSED RIGHT OF WAY LINE		FILL SLOPE	
R.C.C.P Reinforced Cement Concrete Pipe	PROPOSED TRAFFIC BARRIER		LIMIT OF DISTURBANCE	208
R.Q.D. Rock Quality Desgnation	EXISTING TRAFFIC BARRIER		SILT FENCE	
R.M Rootmat	EXISTING WOOD FENCE LINE		SUPER SILT FENCE	
S South	EXISTING CHAIN LINK FENCE LINE	- XX	DIVERSION FENCE	DF ──
SANSanitary Sewer	BASE OR SURVEY LINE	- 31 +50 32	STONE CHECK DAM	🖉
SB Southbound	EXISTING FIRE HYDRANT		TEMPORARY STONE OUTLET STRUCTURE	
S.D Storm Drain	PROPOSED STORM DRAIN		TEMPORARY GABION OUTLET STRUCTURE	
S.D.DSurface Drain Ditch	EXISTING STORM DRAIN	:	AT-GRADE INLET PROTECTION	65555 TGC 
SESuper Elevation SFSilt Fence	EXISTING INLET		CURB INLET PROTECTION	
S.FSquare Feet	EXISTING UTILITY POLE		COMBINATION INLET PROTECTION	
SHLDR Shoulder	EXISTING TREE	A	MEDIAN INLET PROTECTION	
SHA State Highway Administration	EXISTING TREE LINE	<u> </u>	STANDARD INLET PROTECTION	
SHT Sheet	EXISTING TREE TO BE REMOVED	1	TEST HOLE LOCATION	
S.P.P Structural Plate Pipe		$\mathcal{F}^{\mathbf{x}}$		
S.P.TStandard Penetration Testing	EXISTING GAS LINE (QUALITY LEVEL D)			
S.SStainless Steel	EXISTING GAS LINE (QUALITY LEVEL B /C)	G	_	
SSD Stopping Sight Distance	EXISTING ELECTRIC LINE (QUALITY LEVEL D)	E	TEMPORARY ORANGE CONSTRUCTION FENCE	<b>T</b> DE
SSF Super Silt Fence	EXISTING ELECTRIC LINE (QUALITY LEVEL B /C)			
STDStandard STAStation	EXISTING TELEPHONE LINE (QUALITY LEVEL D)			
STIFF Stiffener				· (/ ×
SOSingle Opening	EXISTING TELEPHONE LINE (QUALITY LEVEL B $/$ C)			
S.YSquare Yards	EXISTING SANITARY SEWER LINE (QUALITY LEVEL D)			
SWM Stormwater Management	EXISTING SANITARY SEWER LINE (QUALITY LEVEL B $/$ C)		CRITICAL ROOT ZONE	/ ```
TTangent	EXISTING WATER LINE (QUALITY LEVEL D)			
TTelephone	EXISTING WATER LINE (QUALITY LEVEL B /C)			
TBR To Be Removed			TREE REMOVAL	
T.C Top of Cover TEMP Temporary				X
T.G Top of Grate				
T or TL Traverse Line				
T.M Top of Manhole				
T.O.F Top of Footing				
TRAV Traverse				
TSTemporary Swale				
T.STop of Slab				
T.STopsoil				
TYPTypical				
U.DUnder Drain U.GUnderground				
U.O.N Unless Otherwise Noted				
U.PUtility Pole				
USC Unified Soil Classification				
USDA United States Department of Agriculture				
VCLVertical Clearance				
V.C.LVertical Curve Length				
W Water				
WWest				
WBWestbound				
W.MWater Meter				

	NO.	REVISION	BY	APP'D	DATE	DESIGNED BY: UMK DATE: NO		ER, 2023
						DRAWN BY: UMK	DATE: NOVEMB	ER, 2023
						CHECKED BY: CC	DATE: NOVEMB	ER, 2023
						DRAWING NO.:	DATE:	
						RECOMMENDED FOR APPRC	VAL	Date
ian Priority Areas						Chief, Division of Transportation Engineering		Date

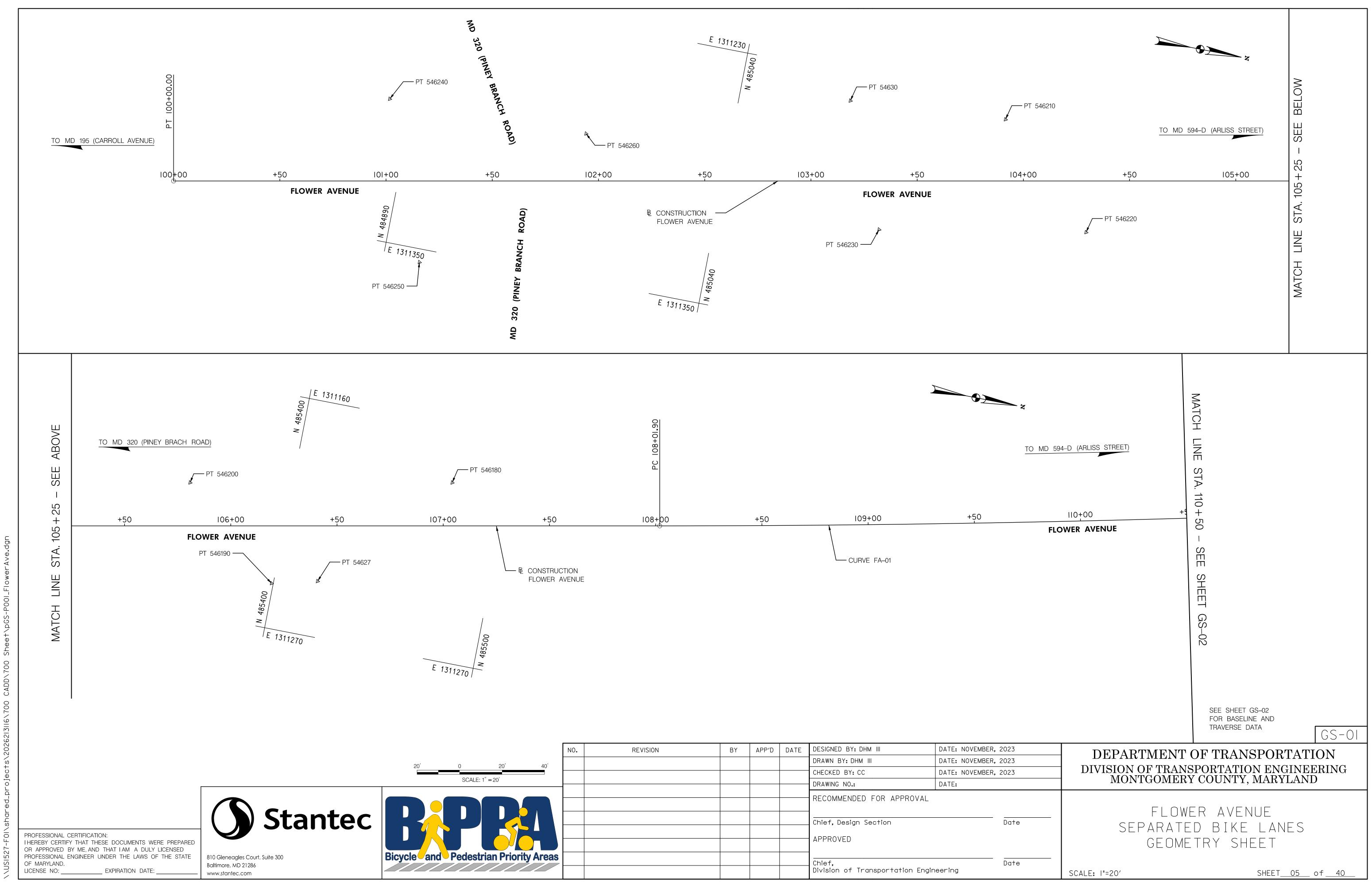


# DEPARTMENT OF TRANSPORTATION DIVISION OF TRANSPORTATION ENGINEERING MONTGOMERY COUNTY, MARYLAND

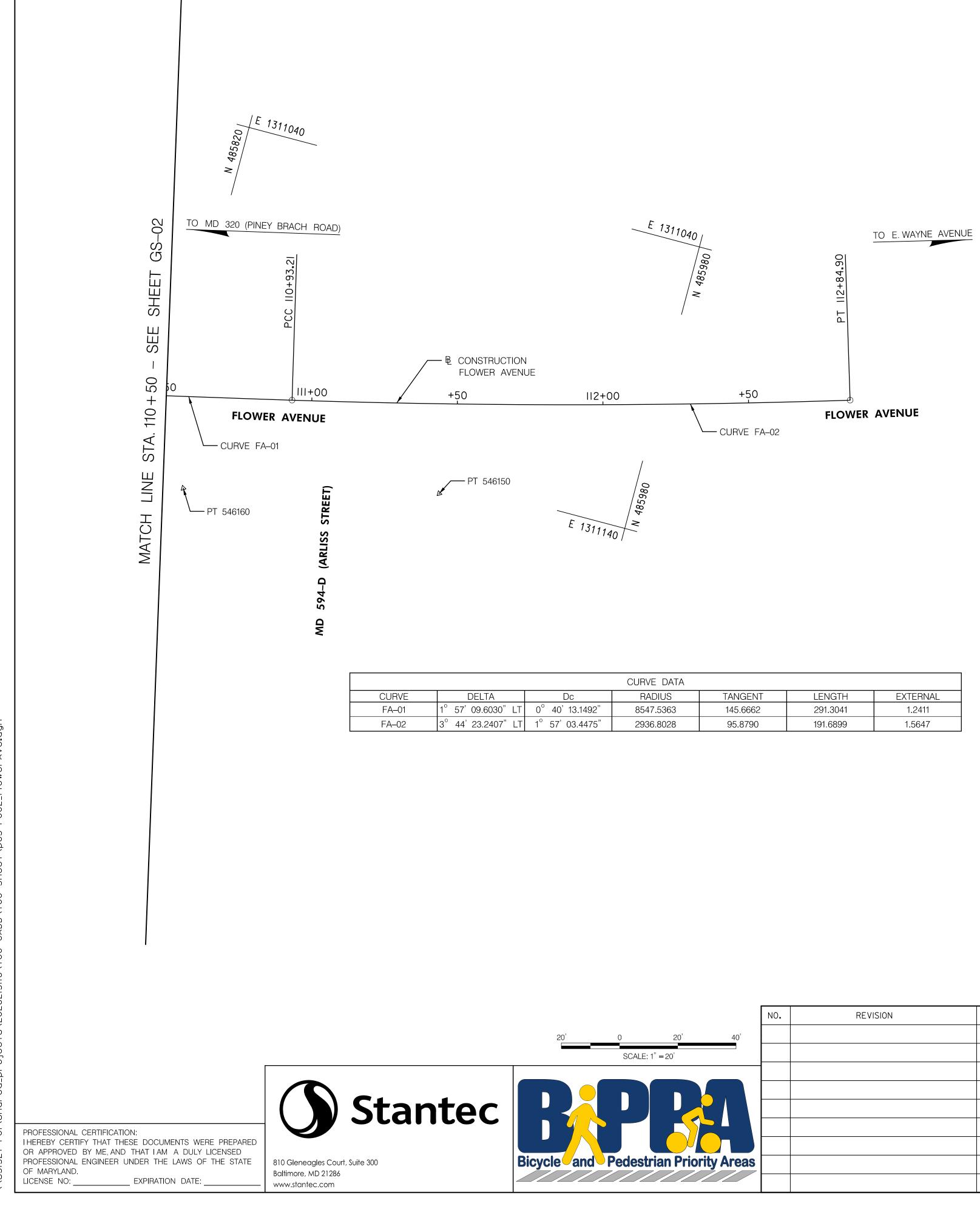
#### FLOWER AVENUE SEPARATED BIKE LANES ABBREVIATIONS & SYMBOLS

SCALE: NONE

SHEET<u>04</u> of <u>40</u>



	NO.	REVISION	ΒY	APP'D	DATE	DESIGNED BY: DHM III	DATE: NOVEMBER,	2023
20' 40'						DRAWN BY: DHM III	DATE: NOVEMBER,	2023
						CHECKED BY: CC	DATE: NOVEMBER,	2023
" =20'						DRAWING NO.:	DATE:	
						RECOMMENDED FOR APPROVAL Chief, Design Section APPROVED		Date
ian Priority Areas						Chief, Division of Transportation Engir	neering	Date

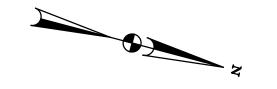


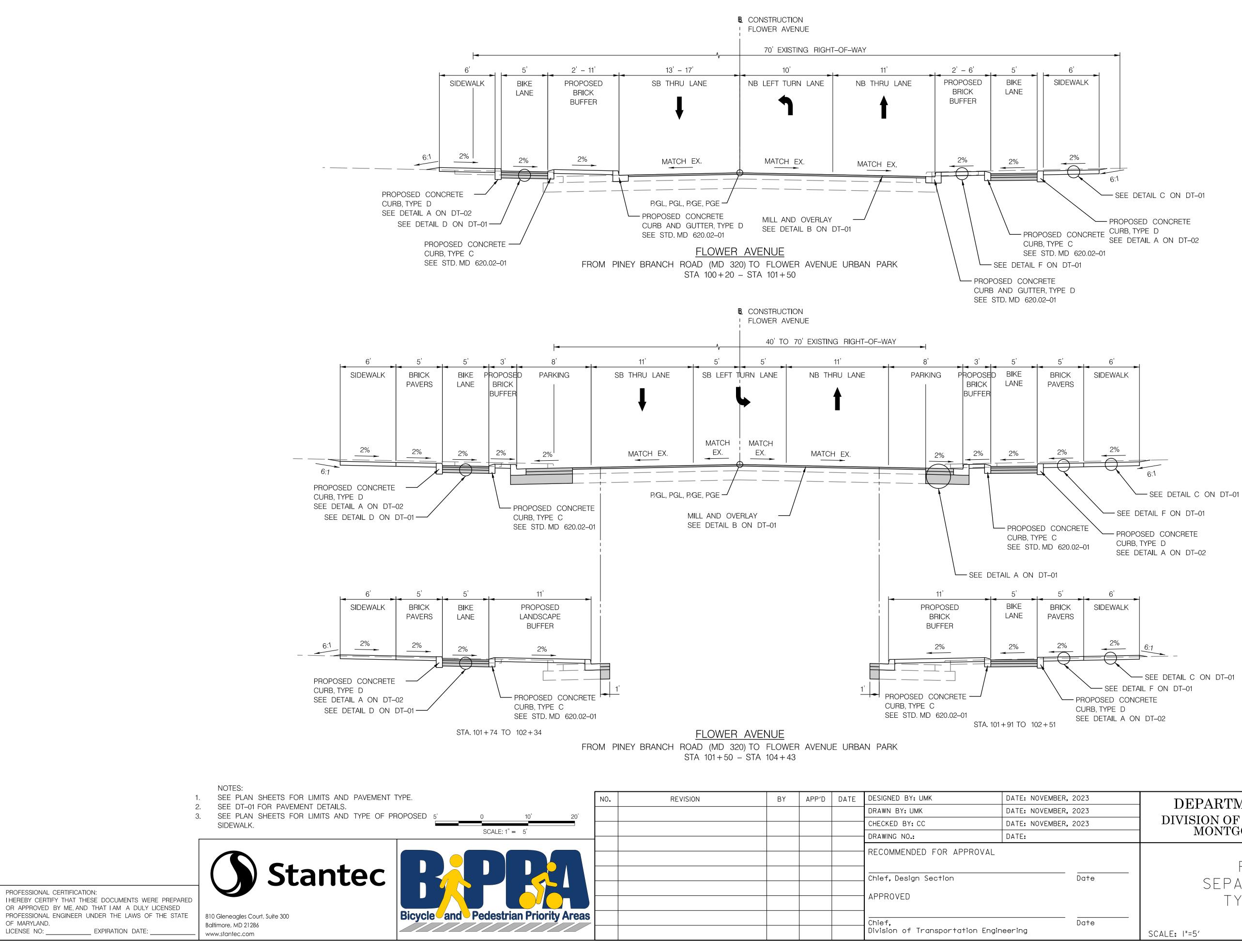
		BASELINE	DATA		
CURVE	POINT NO.	STATION	NORTH	EAST	BEARING
	PT	100+00.00	484786.2772	1311340.8211	N 11° 02' 02.6383" W
	PC	108 + 01.90	485573.3552	1311187.3429	N 11° 02' 02.6383" W
FA-01	PI	109 + 47.57	485716.3285	1311159.4635	
	CC		483937.4200	1302797.8201	
	PCC	110 + 93.21	485858.2689	1311126.7286	N 12° 59' 12.2413" W
	PCC	110 + 93.21	485858.2689	1311126.7286	N 12° 59' 12.2413" W
FA-02	PI	111 + 89.09	485951.6955	1311105.1822	
FA-UZ	CC		485198.2945	1308265.0430	
	PT	112 + 84.90	486043.5178	1311077.5878	N 16° 43' 35.4820" W

	TRAVERSE POINTS									
POINT NO.	NORTH	EAST	ELEVATION							
546240	484878.7417	1311283.4065	272.31							
546250	484907.1757	1311356.2199	274.49							
546260	484972.5848	1311281.7822	274.85							
54630	485091.7017	1311242.7621	277.65							
546230	485116.5786	1311299.7306	278.75							
546210	485165.0790	1311237.4348	280.13							
546220	485212.4705	1311282.3385	282.93							
546200	485352.4756	1311209.6440	282.77							
546190	485399.1821	1311248.8661	290.39							
54627	485420.2558	1311243.7496	291.49							
546180	485473.5875	1311186.0421	293.94							
546160	485829.8925	1311165.5251	307.00							
546150	485915.3238	1311144.7781	309.50							

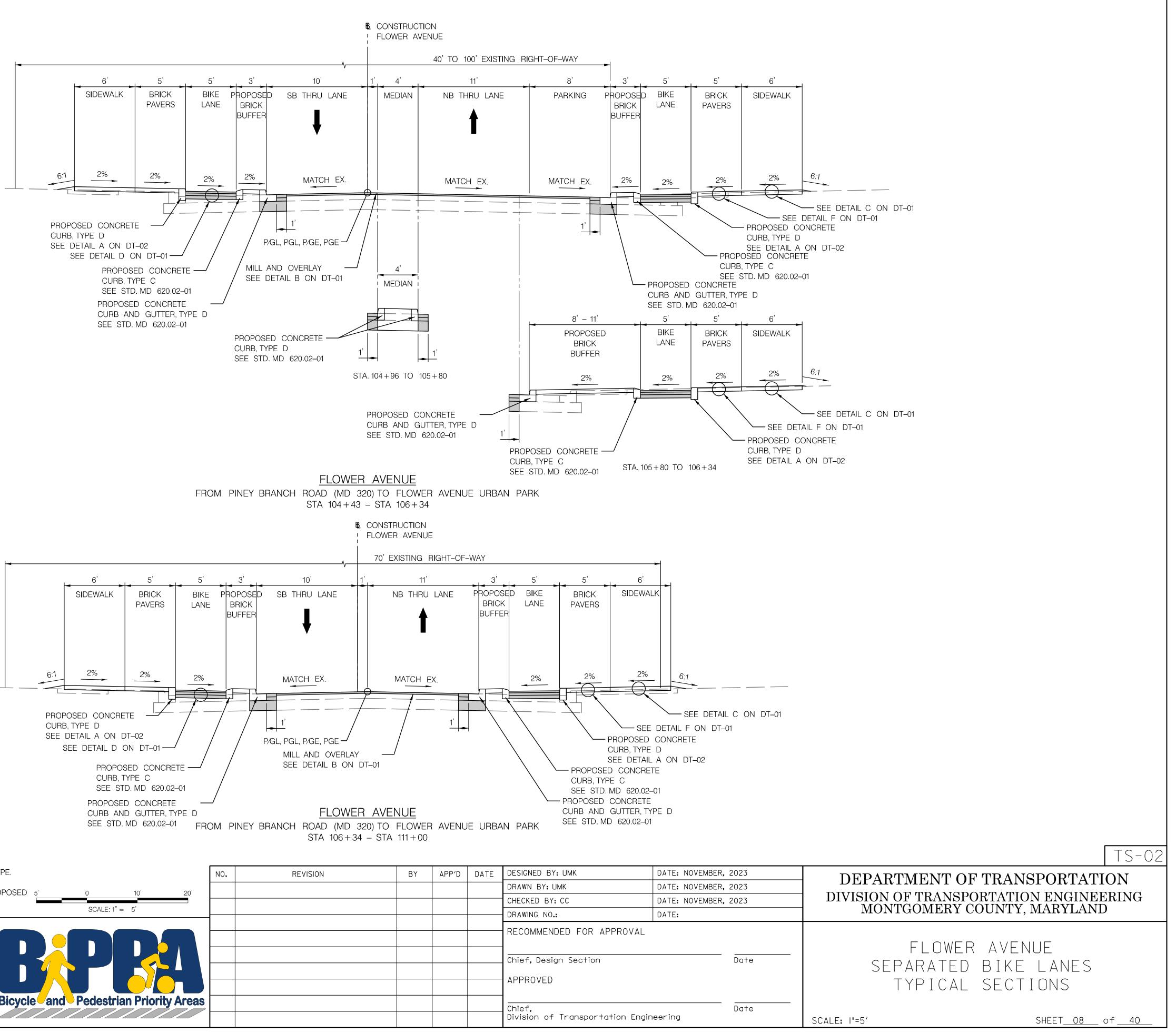
	NO.	REVISION	BY	APP'D	DATE	DESIGNED BY: DHM III	DATE: NOVEMBER, 2023		OF TRANSPORTATION
40'						DRAWN BY: DHM III	DATE: NOVEMBER, 2023		
40						CHECKED BY: CC	DATE: NOVEMBER, 2023		PORTATION ENGINEERING
						DRAWING NO.:	DATE:	MONTGOMERY	COUNTY, MARYLAND
						RECOMMENDED FOR APPROVA Chief, Design Section APPROVED	Date	SEPARATE	ER AVENUE D bike lanes try sheet
Areas						Chief, Division of Transportation E	ngineering		SHEET <u>06</u> of <u>4</u>

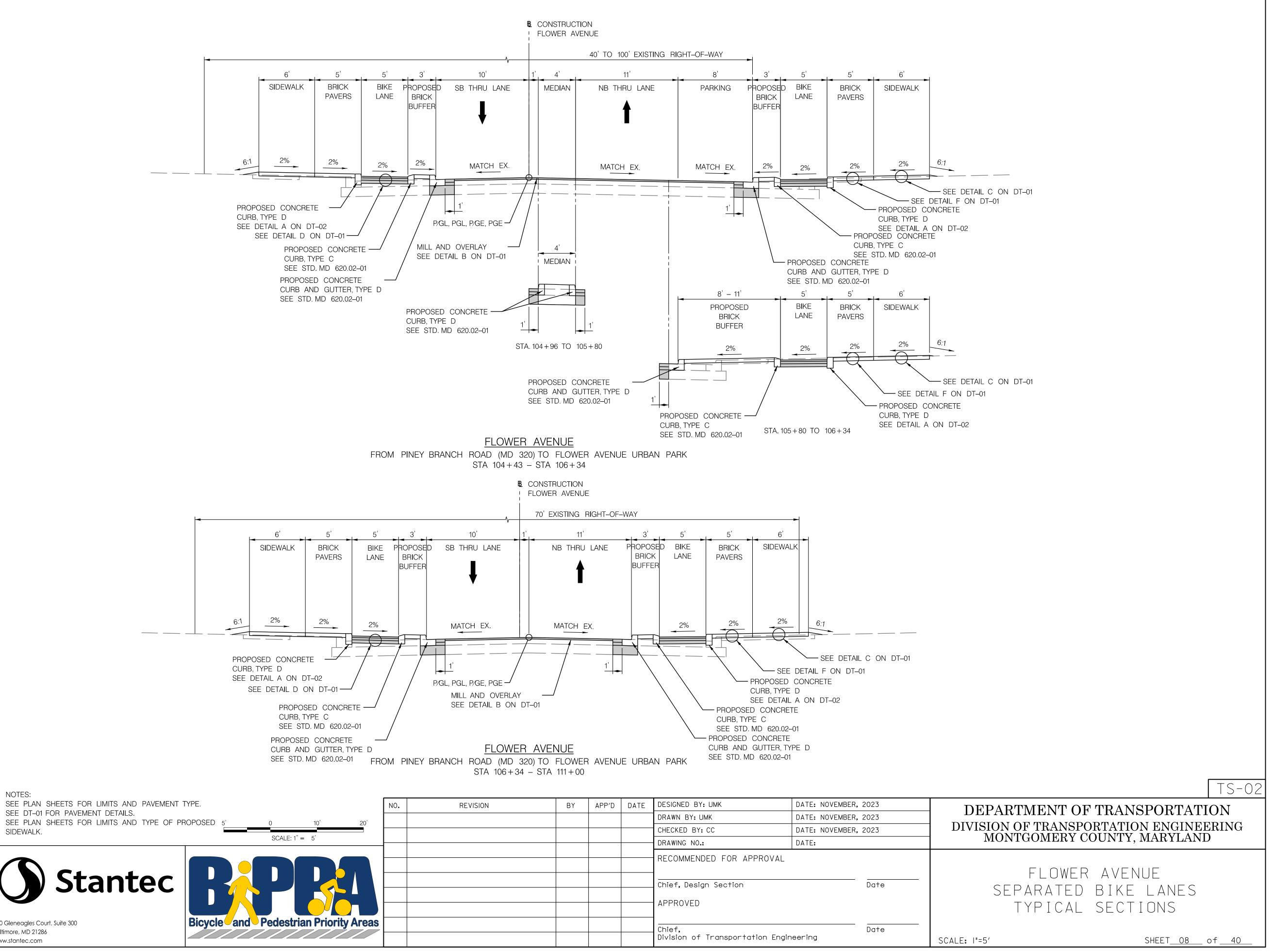
DATA			
DIUS	TANGENT	LENGTH	EXTERNAL
.5363	145.6662	291.3041	1.2411
.8028	95.8790	191.6899	1.5647





									TS-
NO	D. RE	VISION	ΒY	APP'D DATE	DESIGNED BY: UMK	DATE: NOVEMBER	2023	DEDARTMENT OF	TRANSPORTATION
20'					DRAWN BY: UMK	DATE: NOVEMBER	2023		
					CHECKED BY: CC	DATE: NOVEMBER, 2023		DIVISION OF TRANSPORTATION ENGINE MONTGOMERY COUNTY, MARYLAN	
					DRAWING NO.:	DATE:		MONTGOMERY CC	JUNTY, MARYLAND
					RECOMMENDED FOR APPRO Chief, Design Section APPROVED	DVAL	Date	FLOWER SEPARATED TYPICAL	BIKE LANES
ity Areas					Chief, Division of Transportation	n Engineering	Date	SCALE:  "=5'	SHEET <u>07</u> of <u>40</u>





1. 3

NOTES:

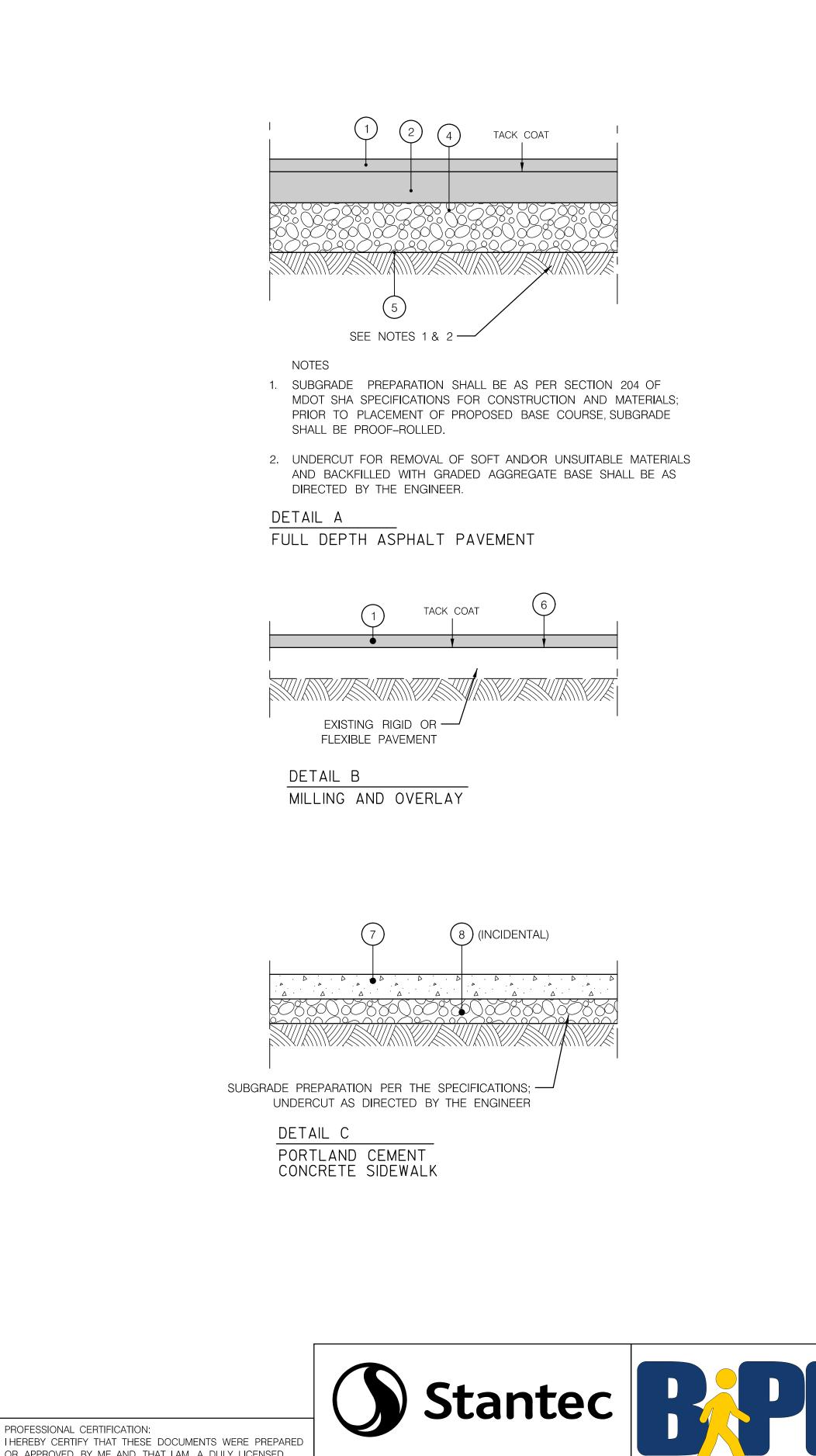
SIDEWALK.

SEE DT-01 FOR PAVEMENT DETAILS.



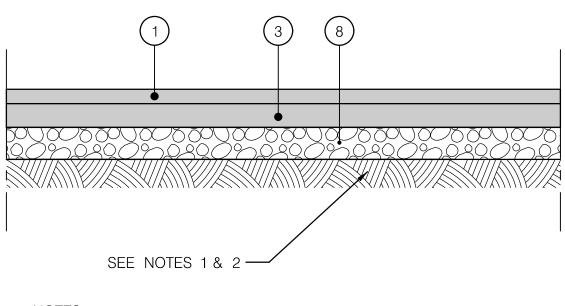
810 Gleneagles Court, Suite 30
Baltimore, MD 21286
www.stantec.com

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



OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND. LICENSE NO: EXPIRATION DATE:

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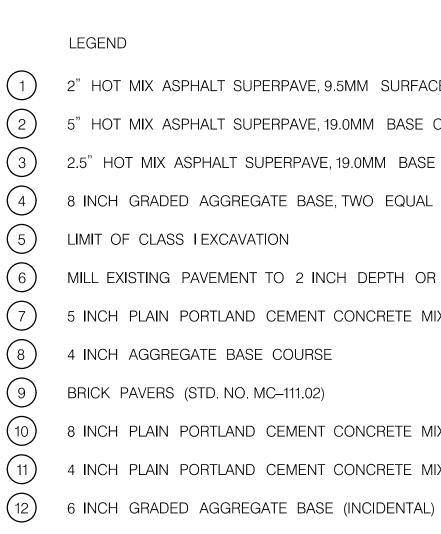


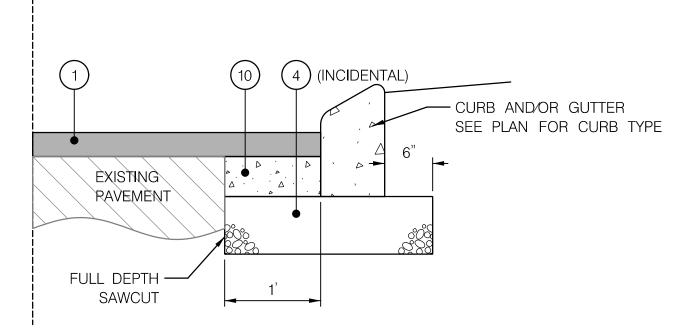
NOTES

- 1. SUBGRADE PREPARATION SHALL BE AS PER SECTION 204 OF MDOT SHA SPECIFICATIONS FOR CONSTRUCTION AND MATERIALS; PRIOR TO PLACEMENT OF PROPOSED BASE COURSE, SUBGRADE SHALL BE PROOF-ROLLED.
- 2. UNDERCUT FOR REMOVAL OF SOFT AND/OR UNSUITABLE MATERIALS AND BACKFILLED WITH GRADED AGGREGATE BASE SHALL BE AS DIRECTED BY THE ENGINEER.

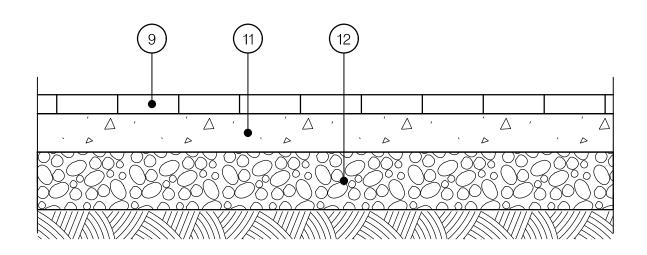
#### DETAIL D

ASPHALT BIKE LANE PAVEMENT SECTION





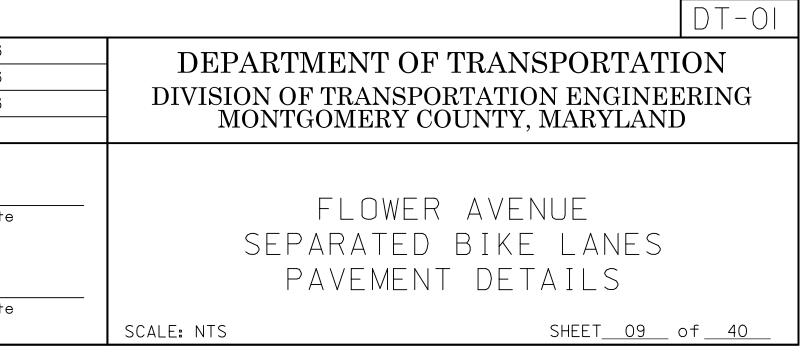


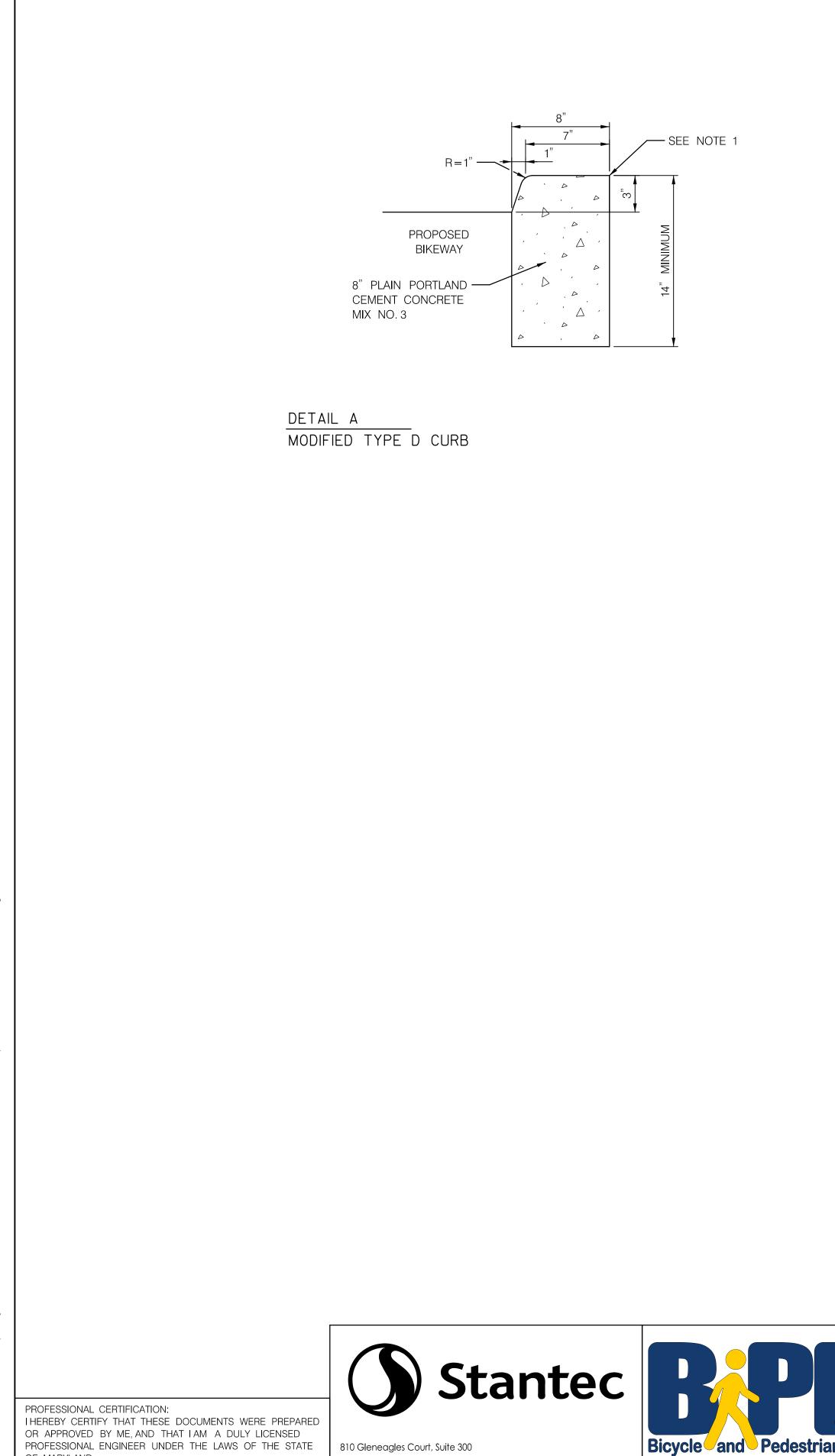


DETAIL F BRICK SIDEWALK SECTION

Γ	NO.	REVISION	BY	APP'D	DATE	DESIGNED BY: UMK	DATE: NOVEMBER,	2023
-	NO.	ILE VISION		ALLO	DAIL		DATE: NOVEMBER,	
-						CHECKED BY: CC	DATE: NOVEMBER,	
						DRAWING NO.:	DATE:	
<b>Biovolo conductorian Priority Aroos</b>						RECOMMENDED FOR APPROVAL Chief, Design Section APPROVED		Date
Bicycle and Pedestrian Priority Areas						Chief, Division of Transportation Engin	eering	Date

2" HOT MIX ASPHALT SUPERPAVE, 9.5MM SURFACE COURSE, P.G. 64S-22, LEVEL 2 5" HOT MIX ASPHALT SUPERPAVE, 19.0MM BASE COURSE, P.G. 64S-22, LEVEL 2 2.5" HOT MIX ASPHALT SUPERPAVE, 19.0MM BASE COURSE, P.G. 64S-22, LEVEL 2 8 INCH GRADED AGGREGATE BASE, TWO EQUAL LAYERS MILL EXISTING PAVEMENT TO 2 INCH DEPTH OR SURFACE OF EXISTING RIGID BASE 5 INCH PLAIN PORTLAND CEMENT CONCRETE MIX NO. 7 8 INCH PLAIN PORTLAND CEMENT CONCRETE MIX NO. 7 (INCIDENTAL) 4 INCH PLAIN PORTLAND CEMENT CONCRETE MIX NO. 7

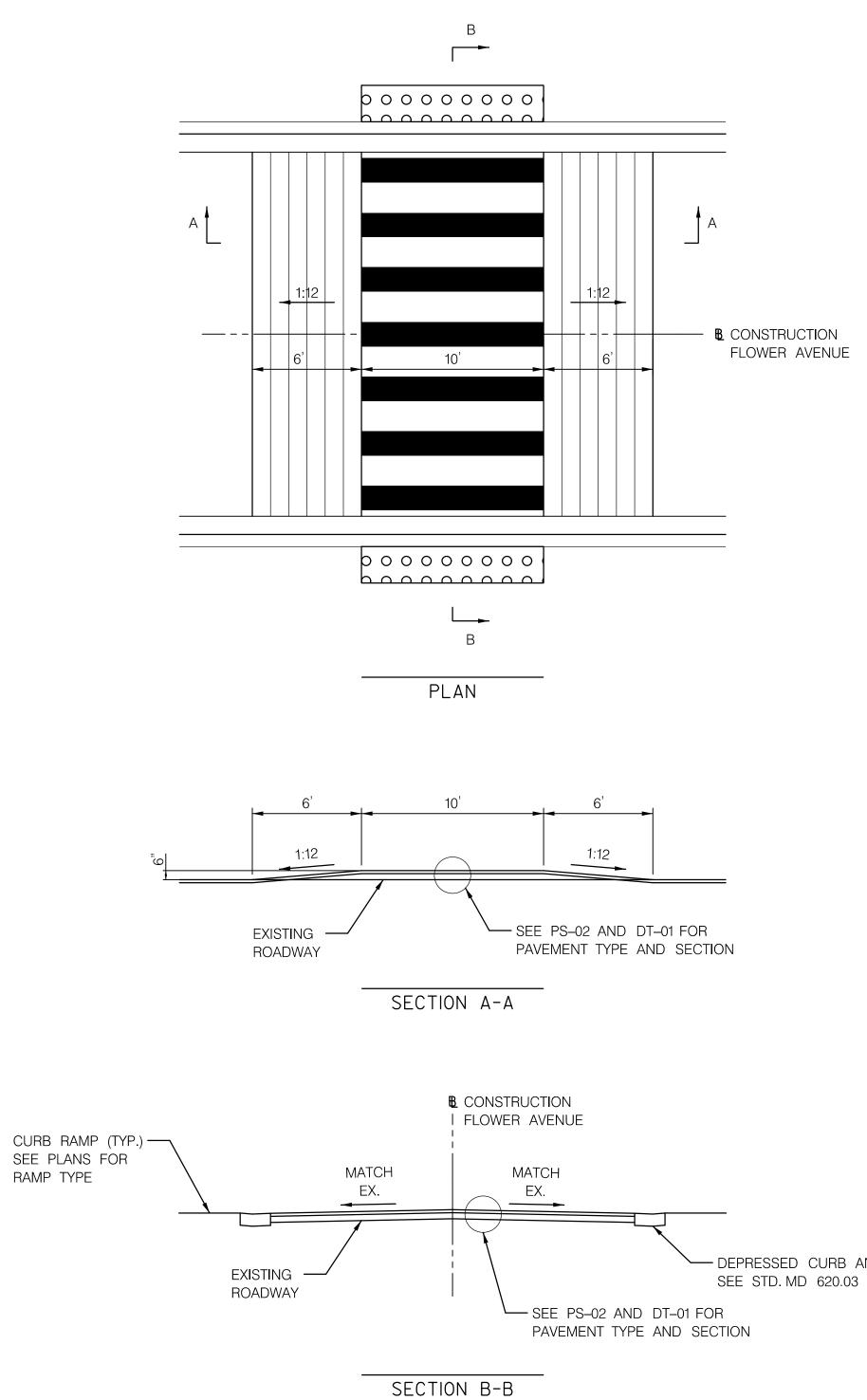




-0002.  $\Box$ Ś 026213116\700 CADD\700 C 202 527

PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND. LICENSE NO: \_\_\_ EXPIRATION DATE: \_\_\_

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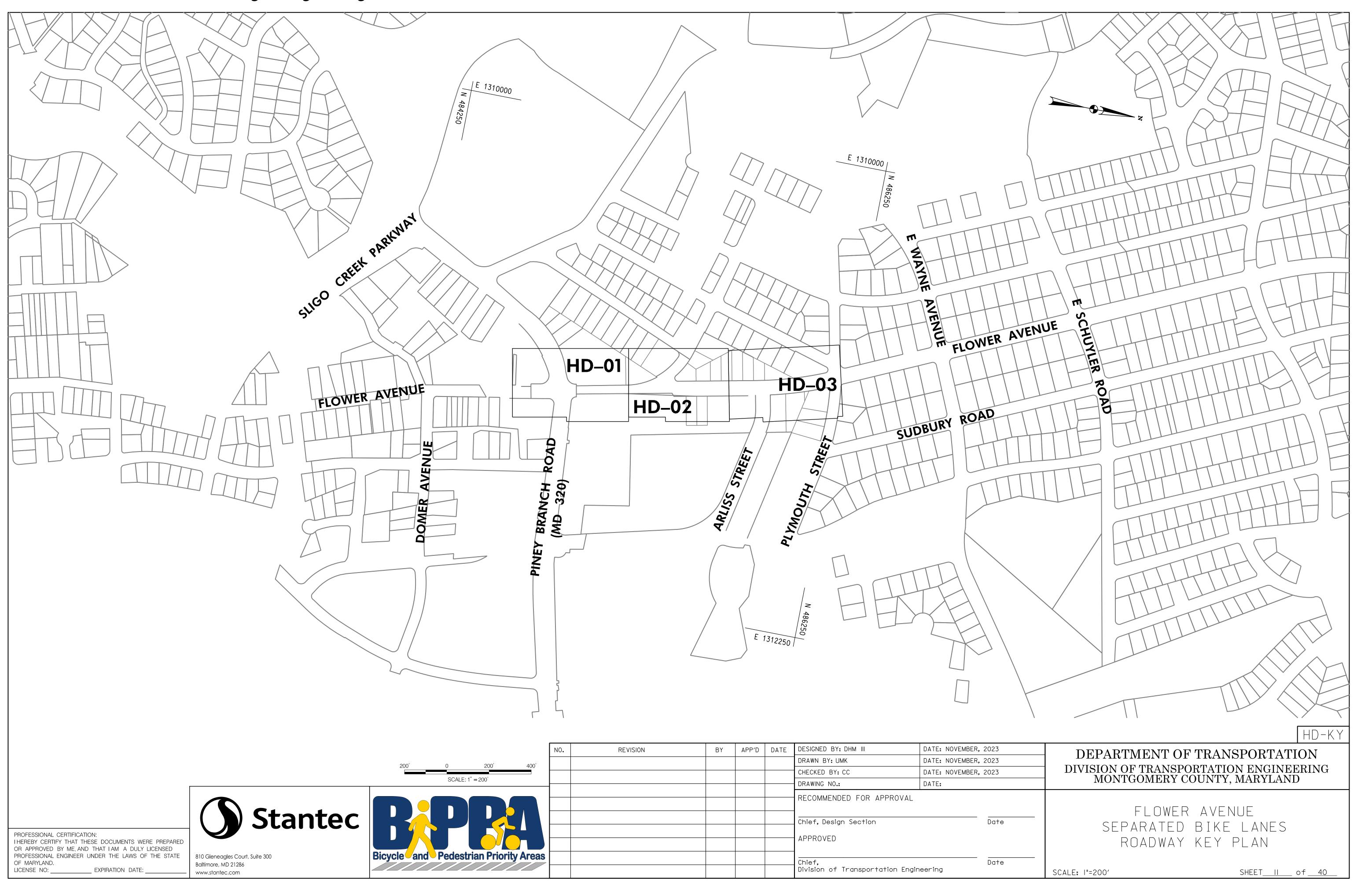


DETAIL B RAISED CROSSWALK

	NO.	REVISION	BY	APP'D	DATE	DESIGNED BY: UMK	DATE: NOVEMB	ER, 2023
						DRAWN BY: UMK	DATE: NOVEMB	ER, 2023
						CHECKED BY: CC	DATE: NOVEMB	ER, 2023
						DRAWING NO.:	DATE:	
						RECOMMENDED FOR APP Chief, Design Section APPROVED	ROVAL	 Date
an Priority Areas						Chief, Division of Transportati	on Engineering	Date

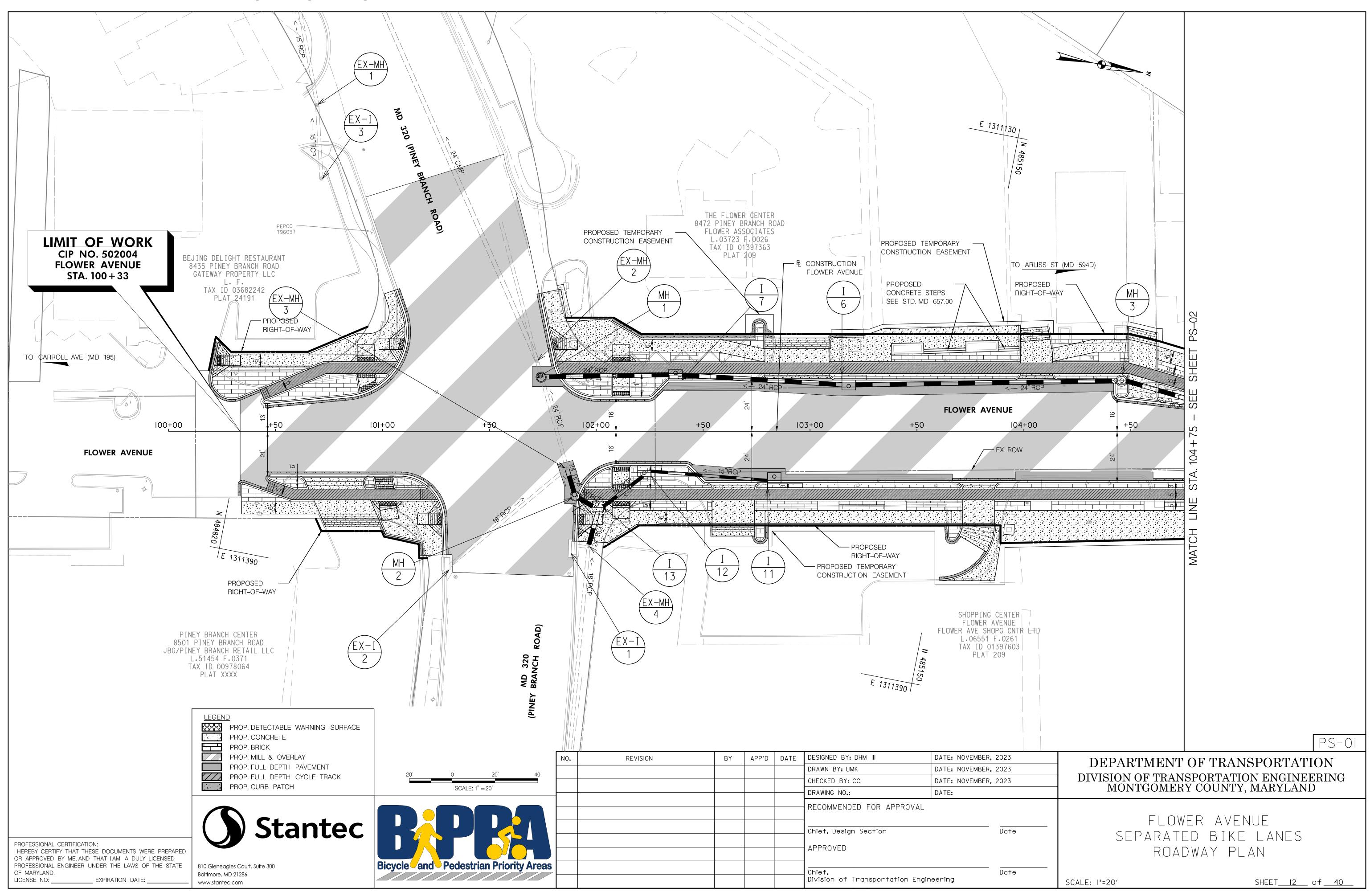
	DT-02
	DEPARTMENT OF TRANSPORTATION DIVISION OF TRANSPORTATION ENGINEERING MONTGOMERY COUNTY, MARYLAND
e	FLOWER AVENUE Separated bike lanes
e	ROADWAY DETAILS         SCALE: NTS         SHEET_IO_of_40_

- DEPRESSED CURB AND GUTTER (TYP.)



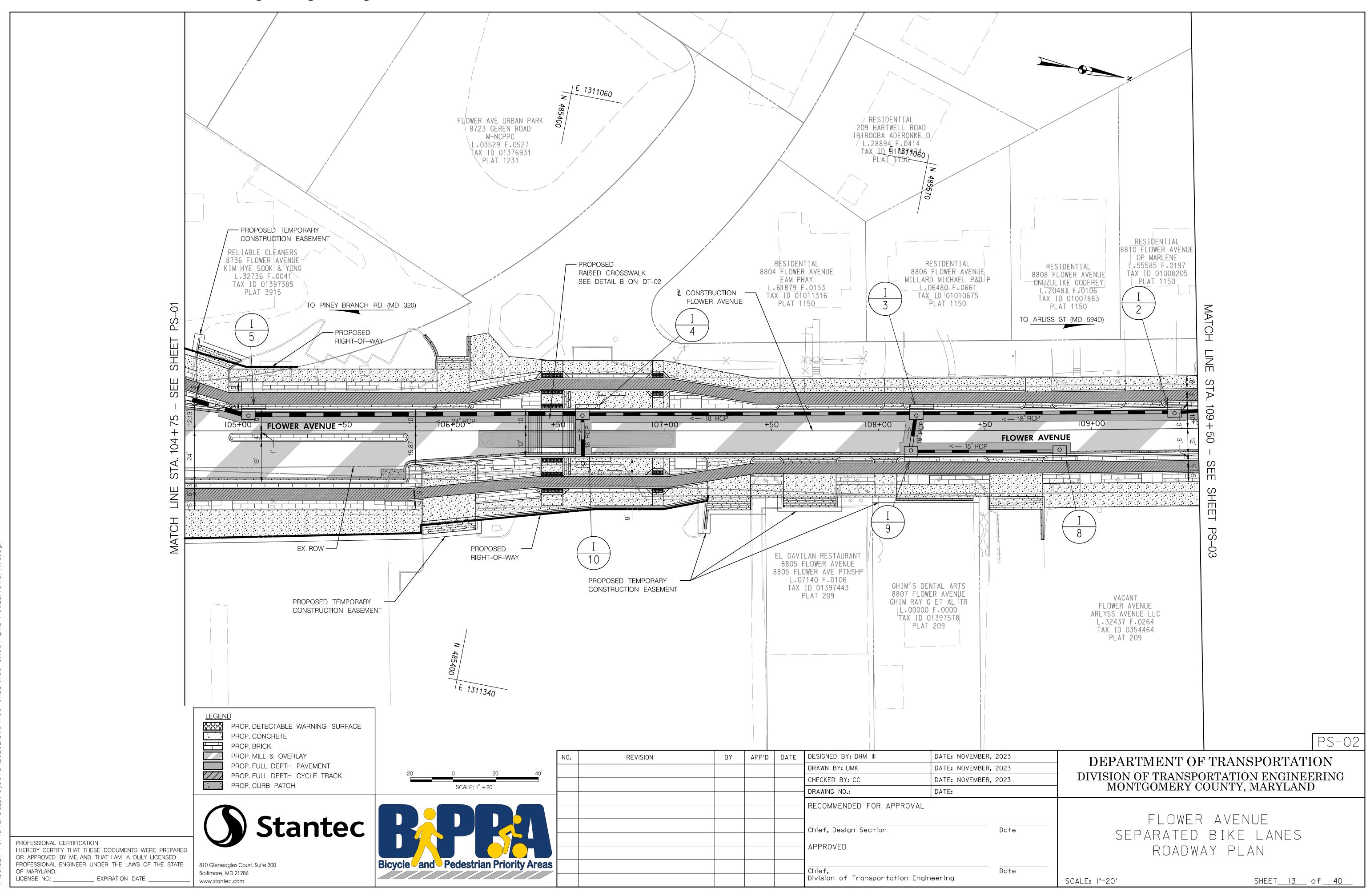
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= 200'				DRAWING NO.:	DATE:		
					1		
				RECOMMENDED FOR APPROVAL		<u></u>	
				APPROVED			
an Priority Areas				Chief,		 Date	
				Division of Transportation Engir	ieering		

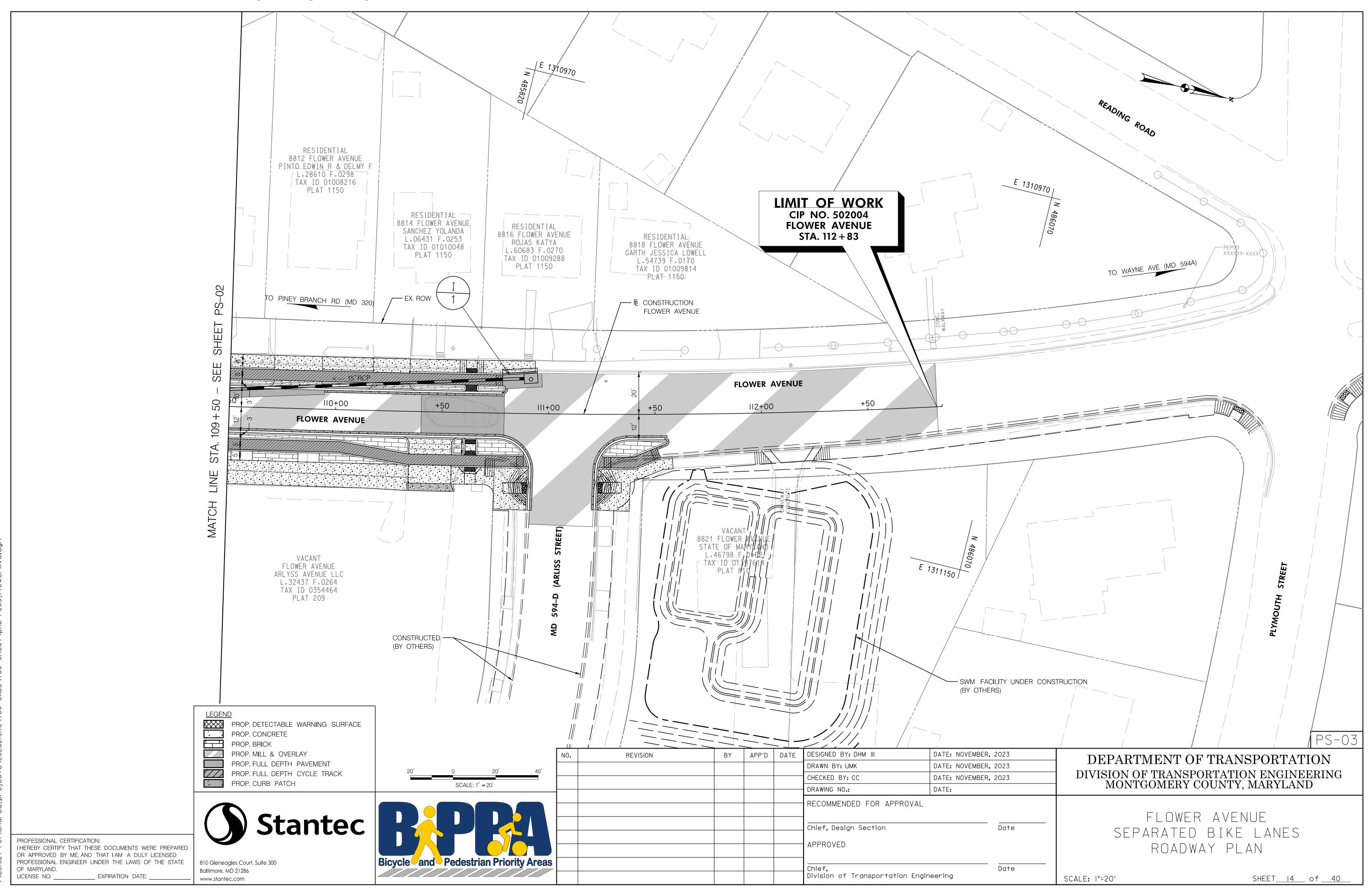


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11/16/2023

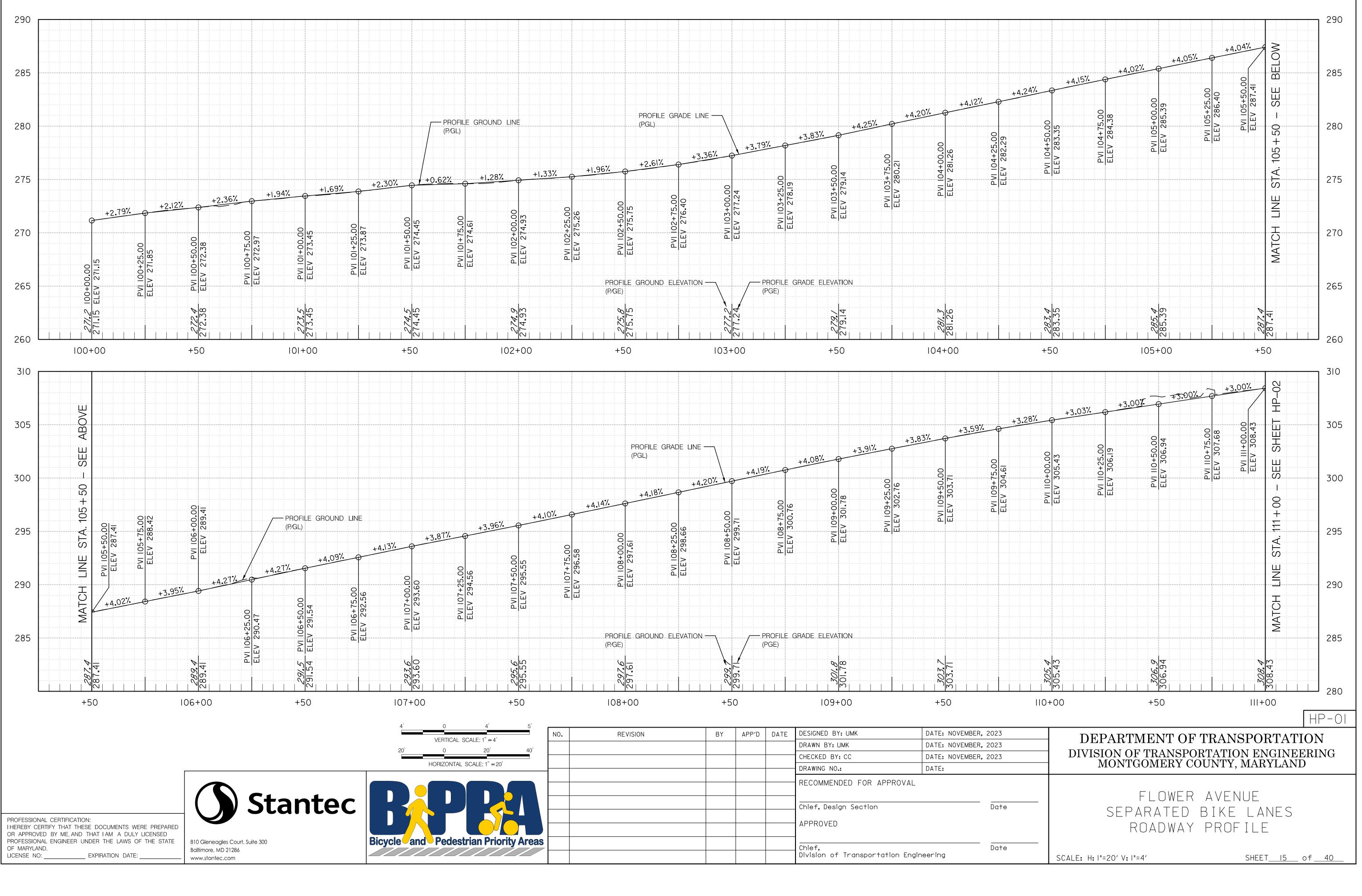


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.USI527-F01\shared\_projects\2026213116\700 CADD\700 Sheet\pHD-P003\_FlowerAve.dg

11/16/2023



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4 5								
	NO.	REVISION	BY	APP'D	DATE	DESIGNED BY: UMK	DATE: NOVEMB	ER, 2023
ALE: 1" = 4' 20' 40'						DRAWN BY: UMK	DATE: NOVEMB	ER, 2023
						CHECKED BY: CC	DATE: NOVEMB	ER, 2023
CALE: 1" = 20'						DRAWING NO.:	DATE:	
						RECOMMENDED FOR APPROV Chief, Design Section APPROVED	'AL	Date
ian Priority Areas						Chief, Division of Transportation Engineering		Date







PROFESSIONAL CERTIFICATION: I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE EXPIRATION DATE:

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**Attachment A: Corridor Engineering Drawings** 



OF MARYLAND.

LICENSE NO:

4'	0	4'	5'	<b></b>				1			0007
	VERTICAL SO	$\Delta I \in 1^{"} - 1^{'}$		NO.	REVISION	BY	APP'D	DATE	DESIGNED BY: UMK	DATE: NOVEMBER	, 2023
20'		20'	40'						DRAWN BY: UMK	DATE: NOVEMBER	, 2023
	0		40						CHECKED BY: CC	DATE: NOVEMBER	, 2023
1	HORIZONTAL S	SCALE: 1" = 20'							DRAWING NO.:	DATE:	
Bicycle and	Pedestr	rian Priority	Areas						RECOMMENDED FOR APPROVAL Chief, Design Section APPROVED		Date
Bicycle									Chief, Division of Transportation Engi	neering	Date



# DEPARTMENT OF TRANSPORTATION DIVISION OF TRANSPORTATION ENGINEERING MONTGOMERY COUNTY, MARYLAND

#### FLOWER AVENUE SEPARATED BIKE LANES ROADWAY PROFILE

SCALE: H: |"=20' V: |"=4'

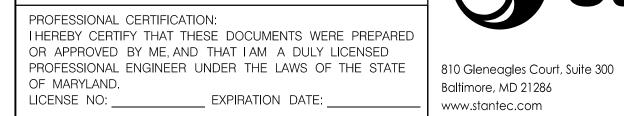
SHEET<u> 16 </u>of<u> 40 </u>

Attachment A: Corridor Engineering Drawings
---------------------------------------------

STRUCTURE SCHEDULE									
STRUCTURE	STATION	OFFSET	ТҮРЕ	TOP ELEV.	INVERT OUT	STANDARD	REMARKS		
I-1	110+92	18.58' LT	REVERSE "B" INLET (B-15)			MC-502.02	15' THROAT OPENING		
I-2	109+39	10.00' LT	REVERSE "B" INLET (B-10)			MC-502.02	10' THROAT OPENING		
I-3	108+18	10.00' LT	REVERSE "B" INLET (B-10)			MC-502.02	10' THROAT OPENING		
I-4	106+61	10.00' LT	REVERSE "B" INLET (B-10)			MC-502.02	10' THROAT OPENING		
I-5	105+05	10.00' LT	REVERSE "B" INLET (B-10)			MC-502.02	10' THROAT OPENING		
I-6	103+18	24.00' LT	REVERSE "B" INLET (B-10)			MC-502.02	10' THROAT OPENING		
I-7	102+37	24.00' LT	"B" INLET (B-10)			MC-502.01	10' THROAT OPENING		
I-8	108+85	12.00' RT	REVERSE "B" INLET (B-15)			MC-502.02	15' THROAT OPENING		
I-9	108+15	12.00' RT	REVERSE "B" INLET (B-15)			MC-502.02	15' THROAT OPENING		
I-10	106+62	12.00' RT	"B" INLET (B-15)			MC-502.01	15' THROAT OPENING		
I-11	102+83	24.00' RT	REVERSE "B" INLET (B-15)			MC-502.02	15' THROAT OPENING		
I-12	102+22	16.00' RT	"B" INLET (B-10)			MC-502.01	10' THROAT OPENING		
I-13	102+02	32.67' RT	COG INLET (COG-5)			MD-374.51	5' THROAT OPENING		
MH-1	101+74	25.31' LT	48" DIAMETER PRECAST MANHOLE			MD-384.01			
MH-2	101+90	30.24' RT	48" DIAMETER PRECAST MANHOLE			MD-384.01			
MH-3	104+46	23.71' RT	MCDOT TYPE "A" MANHOLE			MC-510.01			

<u>GENERAL NOTES</u>

- I. STATION AND OFFSETS FOR MANHOLES IS GIVEN TO THE GEOMETRIC CENTER OF THE MANHOLE AND THE TOP ELEVATION IS GIVEN TO THE TOP OF MANHOLE COVER.
- 2.STATIONS FOR COG INLETS IS GIVEN TO THE GEOMETRIC CENTER OF THE BASE UNIT STRUCTURE, THE OFFSET IS GIVEN TO THE FACE OF CURB AT CENTER OF TROUGH AND THE TOP ELEVATION IS GIVEN TO THE TOP OF CURB.
- 3.CONTRACTOR TO VERIFY ALL EX.STORM DRAIN INVERTS PRIOR TO ORDERING AND FABRICATION ALL PROPOSED INLETS AND MANHOLES.





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202 527 /16/ \USI

UPSTREAM STRUCTURE	DOWNSTREAM STRUCTURE	SIZE	TYPE
I-1	I-2	15"	RCP CLASS IV
I-2	I-3	18"	RCP CLASS IV
I-3	I-4	18"	RCP CLASS IV
I-4	I-5	24"	RCP CLASS IV
I-5	MH-3	24"	RCP CLASS IV
MH-3	I-6	24"	RCP CLASS IV
I-6	I-7	24"	RCP CLASS IV
I-7	MH-1	24"	RCP CLASS IV
I-8	I-9	15"	RCP CLASS IV
I-9	I-3	18"	RCP CLASS IV
I-10	I-4	18"	RCP CLASS IV
I-11	I-12	15"	RCP CLASS IV
I-12	I-13	18"	RCP CLASS IV
I-13	MH-2	24"	RCP CLASS IV
MH-2	EX-MH-3	24"	RCP CLASS IV
EX-MH-4	I-13	24"	RCP CLASS IV

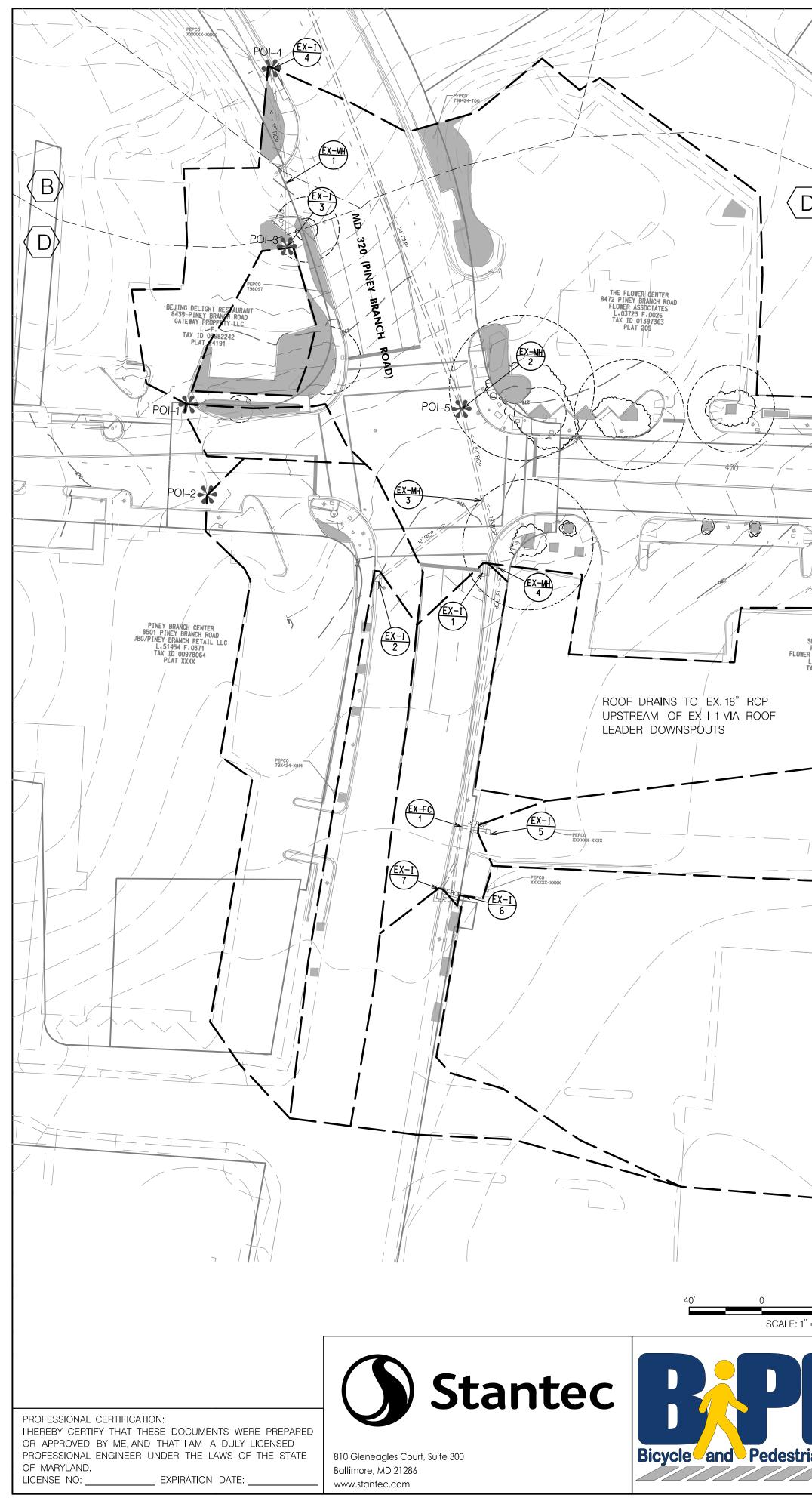
PIPE REMOVAL SCHEDULE								
UPSTREAM STRUCTURE	DOWNSTREAM STRUCTURE	SIZE	ТҮРЕ	LENGTH (FT)				
EX-MH-4	MH-2	18"	RCP CLASS IV	22				



	NO.	REVISION	BY	APP'D	DATE	DESIGNED BY: SMH	DATE: NOVEMBER,	2023
						DRAWN BY: SMH	DATE: NOVEMBER,	2023
						CHECKED BY: CC	DATE: NOVEMBER,	2023
						DRAWING NO.:	DATE:	
rian Priority Areas						RECOMMENDED FOR APPROVAL Chief, Design Section APPROVED		Date
rian Priority Areas						Chief, Division of Transportation Engir	neering	Date

	PIPE SCHEDULE									
	LENGTH	UPSTREAM	DOWNSTREAM	COMMENTS						
	(FT)	INVERT	INVERT	CONNIENTS						
V	136									
V	115									
V	150									
V	150									
V	56									
V	123									
V	75									
V	58									
V	63									
V	13									
V	17									
V	55									
V	23									
V	7									
V	11									
V	16									

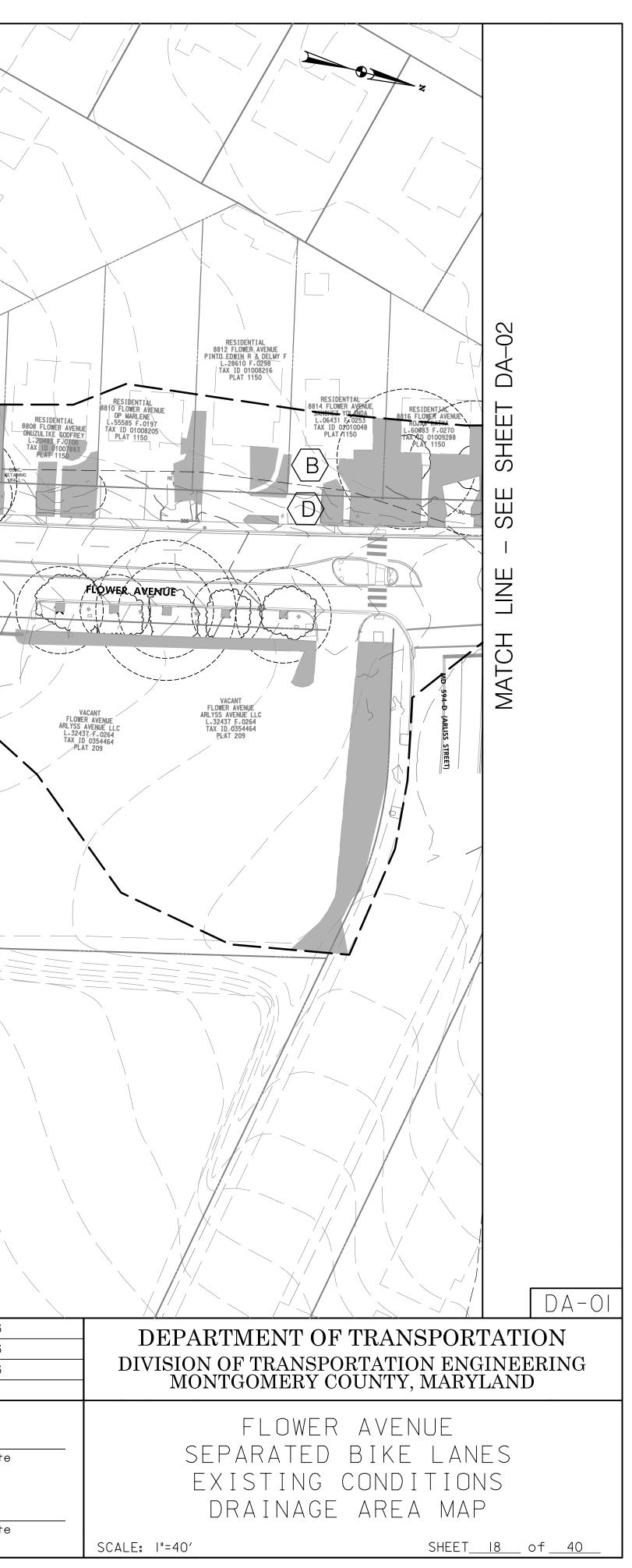
	DD-01
	DEPARTMENT OF TRANSPORTATION DIVISION OF TRANSPORTATION ENGINEERING MONTGOMERY COUNTY, MARYLAND
e	FLOWER AVENUE Separated bike lanes drainage schedules
e	SCALE:  "=20' SHEET of40



16/2023 1151527-F01\share

CADD\700

		FLOWER AVE URBAN PARK			
	RELIABLE CLEANER 8736 FLOWER AVEN KIM HESOKAS VU L.32736 F.IOMI TAX ID 01397385 PLAT 3915	FLOWER AVE URBAN PARK 8723 GEREN ROAD M-NCPPC L.03529 F.0527 TAX ID 01376931 PLAT 1231	2B 8804 FLOWER AVENUE	RESIDENTIAL 209 HARTWELL ROAD IB/ROGBA ADERONKE D ( L.28894 F. 0414 TAX ID 01007974 PLAT 1150 RESIDENTIAL	
			2B 8804 FLOWER AVENUE EAM PHAY L.6(1879 F.0753 TAX ID 010/1316 PLAT 1760	RESIDENTIAL 8806 FLOWER AVENUE MILLARD MICHAEL PAD P LAC6480-E-G661 TAX_PD 01010675 PLAT 1150	
HOPP ING. CENTER			400 400 EL GAVILAN RESTAURANT 8805 FLOWER AVE PTNSH J. OTHER AVE PTNSH J. OTHOR F. 0106 TAX ID 01307443 PLAT 209	ASPHALT	
HOPPING CENTER FLOWER AVENUE AVE SHOPG CNTF LTD .06551 F.0261 AX IØ 01397603 PLAT 209			TAX ID 01397443 PLAT 209	GHIM'S DENTAL ARTS 8007 TLUMER AVENUE GHIM RAY G ET AL TR 00000 F.0000 TAX ID 01397578 PLAT 209	
		GE AREA USE, IMPERVIOUS USE, OPEN SPACE			
<u> </u>	NO. REVISION	DLOGIC SOIL BOUND	ARY DESIGNED BY: SMH	DATE: NOVEMBER, 202	<u>,</u>
40' 80' = 40'			DRAWN BY: SMH CHECKED BY: CC DRAWING NO.: RECOMMENDED FOR APPROVAL	DATE: NOVEMBER, 202 DATE: NOVEMBER, 202 DATE: NOVEMBER, 202 DATE:	23
an Priority Areas			Chief, Design Section APPROVED Chief, Division of Transportation Engin	Da Da Da	

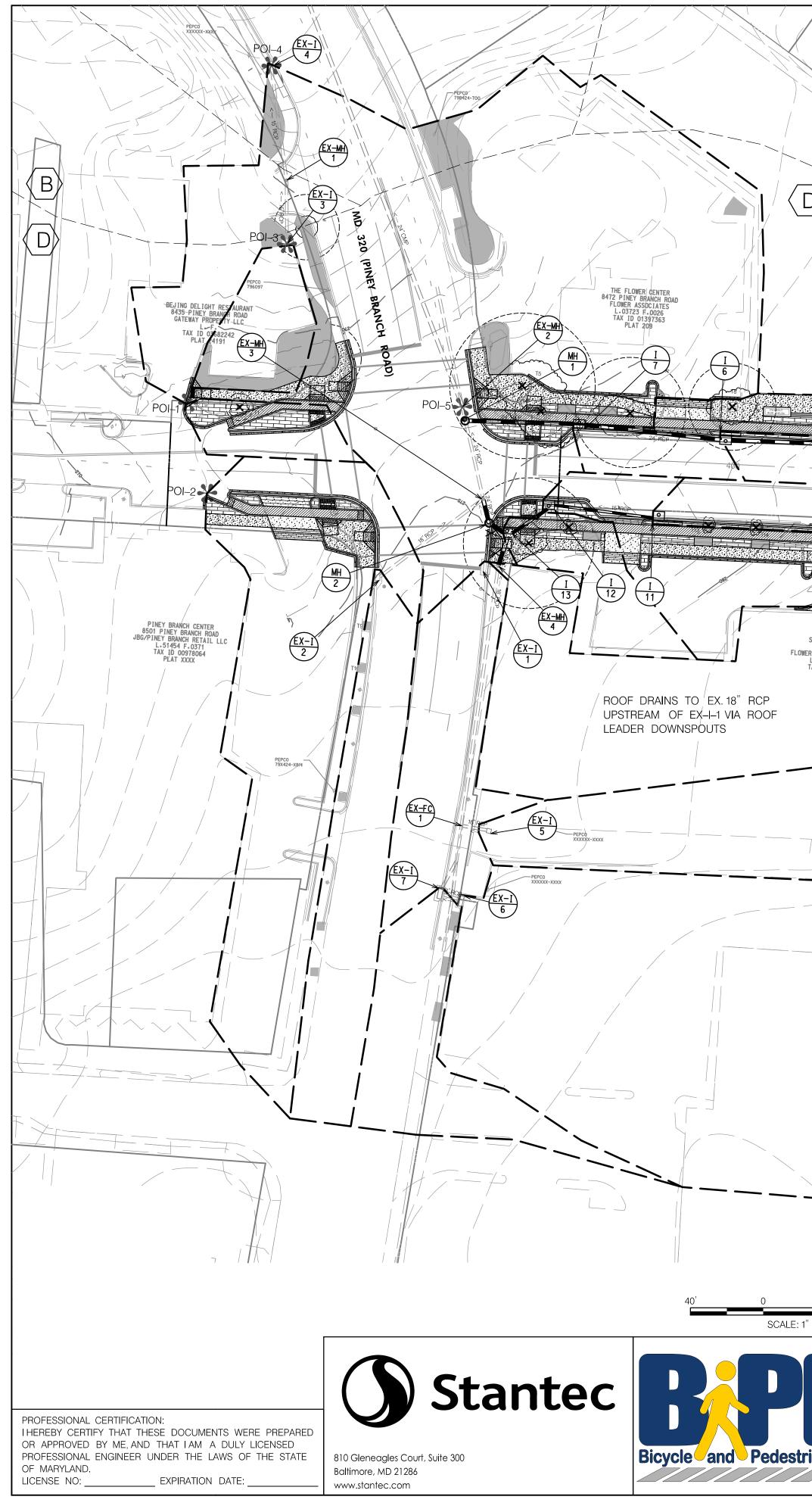




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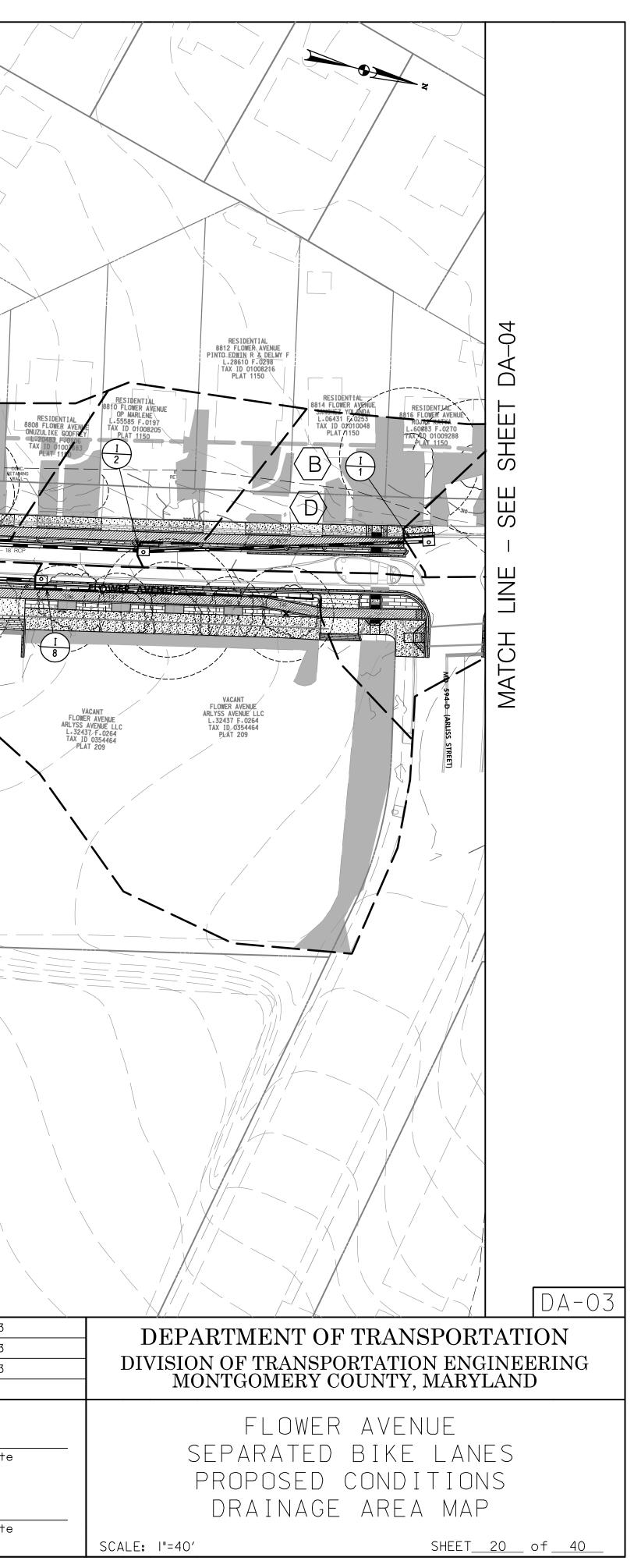
		E. WAYNE AVENUE
40'     80'       "=40'	APP'D DATE DESIGNED BY: SMH DRAWN BY: SMH CHECKED BY: CC DRAWING NO.: RECOMMENDED FOR APPROVAL	DATE: NOVEMBER, 2023 DATE: NOVEMBER, 2023 DATE: NOVEMBER, 2023 DATE: NOVEMBER, 2023
ian Priority Areas	Chief, Design Section APPROVED Chief, Division of Transportation Eng	Dat Dat gineering





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		FLOWER AVE URBAN PARK 8723 GEREN ROAD M-NCPPC L.03529\F.0527 TAX ID 01376931 PLAT 1231			RESIDENTIAL 09 HARTWELL ROAD IROGBA ADERONKE O L-28094 F. 0414 FAX ID 01007974 PLAI 1150
	RELIABLE CLEANERS 8736 FLOWER AVENUE KIM HYE SOOK, & YONG L.32736 F.JOO41 TAX ID 01397385 PLAT 3915			2B RESIDENTIAL 2B 8804 FLOWER AVENUE EAM PHAY L.61879 F.0/53 TAX ID.01011316 PLAT 1150	RESIDENTIAL 8406 FLOWER AVENUE MILLARD MICHAEL PAD P L. 06480. Frog61 TAX_RE 01010675 PLAT 1150
HOPPING CENTER FLOWER AVENUE AVE SHOPG CNTFLETD 				EL GAYILAN RESTAURANT 8805 FLOWER AVENUE 8805 /FLOWER AVE PTNSHP /L-07140 F.0106	1 9 ASPHALT PAVEMENT GHIM'S DENTAL ARTS 88007 FLOWER AVENDE GHIV RAY G ET AL 100000 F.0000 TAX 1D 01397578 PLAT 209
		DRAINAGE AREA LAND USE, IMPERVIO LAND USE, OPEN SF			
	*  (D)	POI HYDROLOGIC SOIL E HYDROLOGIC SOIL T	TYPE		
40' 80' = 40'	REVISION	BY         APP'D         D           Image: Constraint of the second	DATE DESIGNED BY: SMH DRAWN BY: SMH CHECKED BY: CC DRAWING NO.: RECOMMENDED F	D4	ATE: NOVEMBER, 2023 ATE: NOVEMBER, 2023 ATE: NOVEMBER, 2023 ATE:
an Priority Areas			Chief, Design Sec APPROVED Chief, Division of Trans	tion portation Engineer	Data
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||/|6/2023 \\USI527-FC

SUDBURY ROAD	APP'D DATE DESIGNED BY: SMH	DATE: NOVEMBER, 2023
40' 80' "=40'	DRAWN BY: SMH CHECKED BY: CC DRAWING NO.:	DATE: NOVEMBER, 2023 DATE: NOVEMBER, 2023 DATE:
	RECOMMENDED FOR A	





PROFESSIONAL CERTIFICATION: I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND. LICENSE NO: \_\_\_\_\_\_ EXPIRATION DATE: \_\_\_\_\_



810 Gleneagles Court, Suite 300 Baltimore, MD 21286 www.stantec.com



#### <u>S</u>

AT-GRADE INLET PROTECTION

BAFFLE BOARDS

CATCH BASIN INSERT

CLEAR WATER DIVERSION PIPE

COMBINATION INLET PROTECT

CURB INLET PROTECTION

DIVERSION FENCE

EARTH DIKE

EMERGENCY SPILLWAY

FILTER BAG

FILTER BERM

FILTER LOG

GABION INFLOW PROTECTION

GABION INLET PROTECTION

LIMIT OF DISTURBANCE

MEDIAN INLET PROTECTION

MEDIAN SUMP INLET PROTECT

MOUNTABLE BERM

PERIMETER DIKE/SWALE

PERMANENT SOIL STABILIZAT

PERMANENT SOIL STABILIZAT

PIPE OUTLET SEDIMENT TRAF

PIPE SLOPE DRAIN

PLUNGE POOL

PORTABLE SEDIMENT TANK

REMOVABLE PUMPING STATION

RIPRAP INFLOW PROTECTION

RIPRAP OUTLET SEDIMENT TH

ROCK OUTLET PROTECTION I

LIMIT OF CUT SLOPE

LIMIT OF FILL SLOPE

DESIGNED BY: SMH DATE: NOVEMBER, 2023 APP'D DATE NO. REVISION ΒY DRAWN BY: SMH DATE: NOVEMBER, 2023 CHECKED BY: CC DATE: NOVEMBER, 2023 DATE: DRAWING NO .: RECOMMENDED FOR APPROVAL Chief, Design Section Date APPROVED Chief. Date Division of Transportation Engineering

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 non-maintenance 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 splashblock 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

17. All inlets in non-sump areas shall have asphalt berms installed at the time of base paving establishment.

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."

		ROCK OUTLET PROTECTION II	ROPII
	вв	ROCK OUTLET PROTECTION III	ROPIII
	[]сві	SILT FENCE	⊢SFI
	CWD - 12 E: DESIGNATION CWD-12 ERS TO CLEAR WATER RSION WITH 12 INCH PIPE.	SILT FENCE ON PAVEMENT	⊢SF0P
		SOD	* * * * * * * * * * * * * * * * *
		STABILIZED CONSTRUCTION ENTRANCE	SCE CE
	⊢ DF	STANDARD INLET PROTECTION	
PLA etc	A-I CE DESIGNATION (A-I, B-2, ) ON FLOW CHANNEL SIDE JIKE.	STOCKPILE AREA	
OF I	ES	STONE CHECK DAM	CD
	⊠FB	STONE/RIPRAP OUTLET SEDIMENT TRAP ST II	ST-II
	IFB-AI IFB-BI	SUBSURFACE DRAINS	├── SSD ── ┥
N R W	FL-18 DTE: DESIGNATION FL-18 DEFERS TO FILTER LOG ITH 18 INCH DIAMETER.	SUMP PIT	⊠sp
"		SUPER SILT FENCE	ISSFI
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ST I	ST-I	TEMPORARY SWALE	A-I ACE DESIGNATION (A-I, B-2, c.) ON FLOW CHANNEL SIDI SWALE.
NO RE DR	PSD - 12 TE: DESIGNATION PSD-12 FERS TO PIPE SLOPE AIN WITH 12 IN PIPE	WASH RACK OPTION	
	PP	CHESAPEAKE BAY CRITICAL AREA	CBCA
	Øpst	DRAINAGE BOUNDARY	DA
	⊠RPS	EXISTING CONTOURS	<u> </u>
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AP ST III	ST-III	TREE PROTECTION FENCE	— TPF —
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	⊢ — C — +	WETLAND BUFFER	— в —
	⊢ F ۱	100-YEAR FLOODPLAIN	<del></del>
I		RTMENT OF TRANSPORTA	ESN-

DEPARTMENT OF TRANSPORTATION DIVISION OF TRANSPORTATION ENGINEERING MONTGOMERY COUNTY, MARYLAND

FLOWER AVENUE SEPARATED BIKE LANES EROSION AND SEDIMENT CONTROL NOTES

SCALE: NONE

SHEET 22 of 40

#### SEQUENCE OF CONSTRUCTION

- I. Prior to clearing of 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), 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 the 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 measure, construction or other land disturbing activities.
- 3. Weather should be monitored to ensure construction of proposed drainage facilities are done in a day with no expected rainfall. Proposed drainage facilities should be constructed within one working day.
- 4. Place Tree Protection Fence. Tree Protection Fencing is shown offset from the Limit of Disturbance (LOD) line for graphic reasons only. Tree protection fence placement is to be executed at the LOD line.
- 5. Construction can occur coincidentally or any order the contractor chooses as long as approvals are in place.

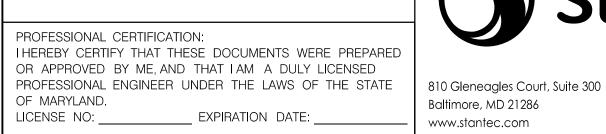
#### SITE SPECIFIC SEQUENCE OF CONSTRUCTION

- I. Clear and Grade for Installation of sediment control devices, only disturbing the area needed for installation of the sediment control devices.
- 2. Install Inlet Protection and Tree Protection Fence.
- 3. Once installed, the permittee must obtain written approval from the MCDPS inspector before proceeding with any additional clearing, grubbing, or grading,
- 4. Construct roadway, storm drain improvements, curb, sidewalk, grading, and SWM facilities.
- 5. Permanently stabilize disturbed roadside area with topsoil, seed and mulch as indicated on the Typical Sections and Landscape plans.
- 6. Upon final stabilization and written approval from MCDPS inspector, the permittee shall remove the sediment control devices.

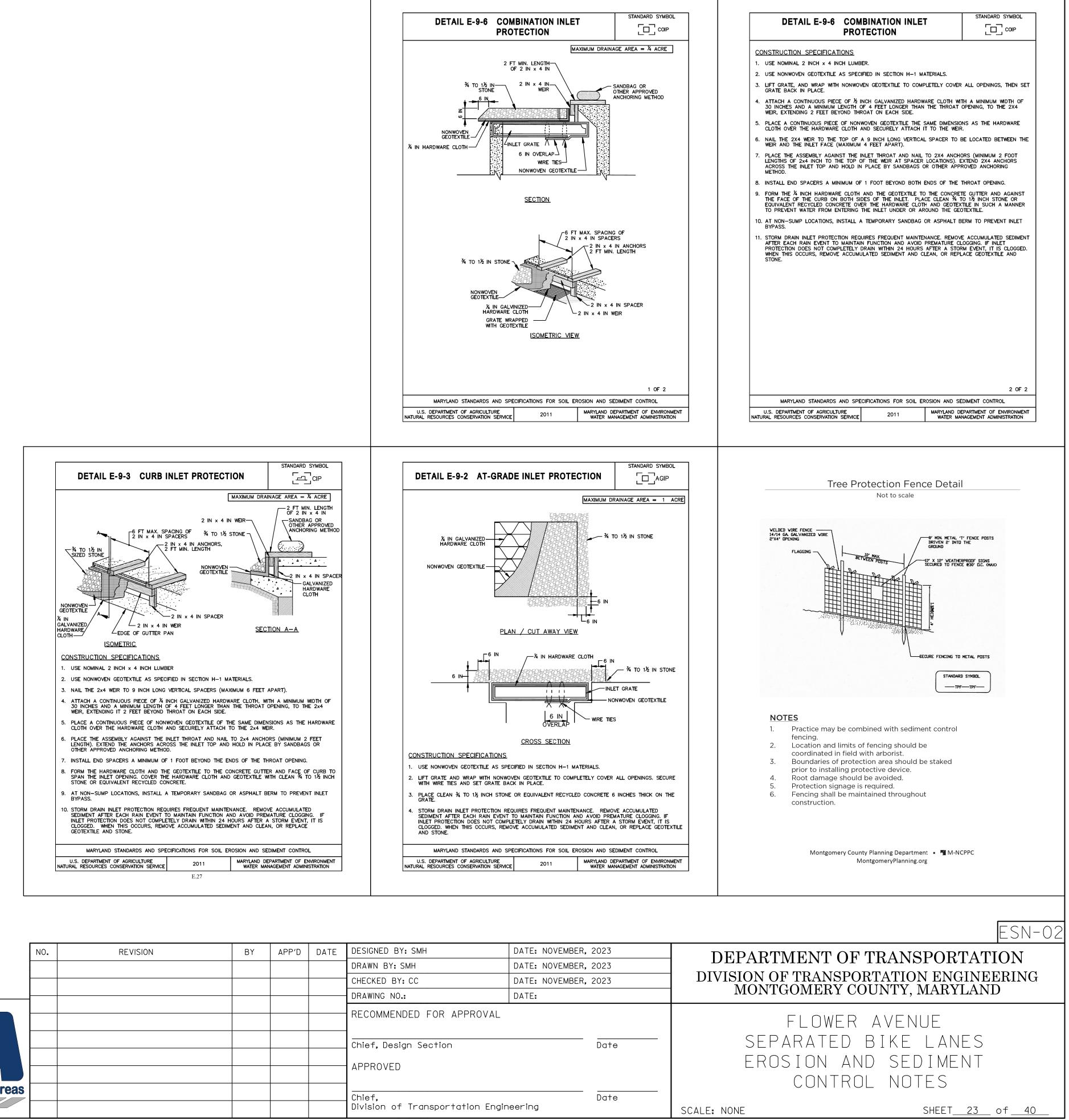
#### M-NCPPC CONSTRUCTION NOTES

Removal of Existing Pavement within a Tree's Critical Root Zone:

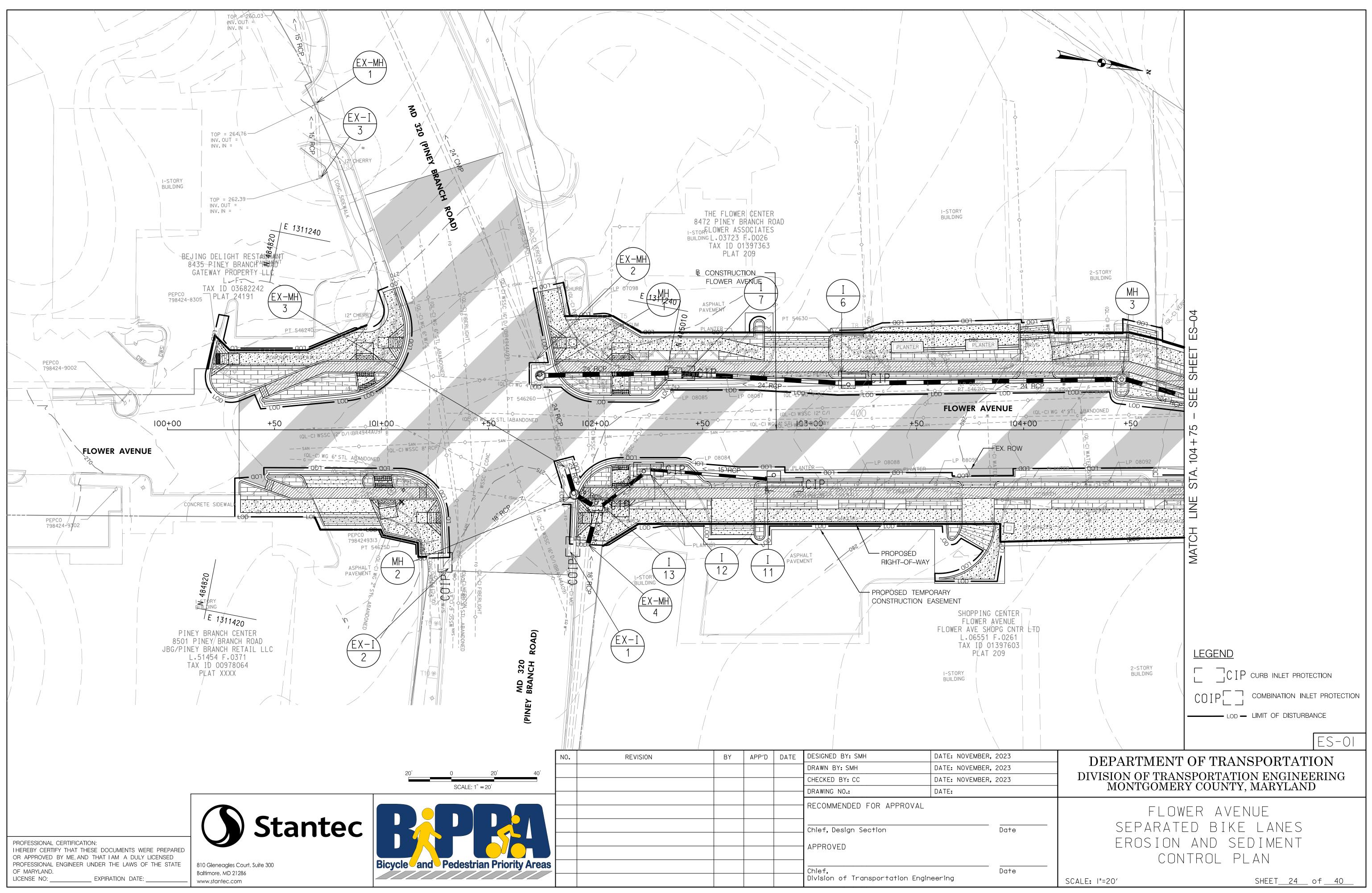
- I. The contractor shall meet with the M-NCPPC Urban Forester and Construction Inspector prior to removal of the pavement to discuss methods to be used to remove pavement. Removal of pavement may be required to be done by hand depending on site conditions.
- 2. The existing top layer of pavement shall be peeled away without disturbing the ground or material beneath. If a base course of rock is beneath the pavement the rock shall be left in place.
- 3. During the removal of the pavement layer great care shall be taken to not disturb existing tree roots along or under existing pavement. Existing tree roots greater than 1.5" in diameter encountered during the removal process shall not be cut unless approved by the M-NCPPC Urban Forester.
- 4. Equipment should remain on existing pavement during the removal process. Equipment shall not traverse over areas where pavement was removed in order to protect exposed tree roots.
- 5. Ground protection such as a 12" mulch layer will be required if equipment is needed to be operated within the critical root zone.
- 6. Removal of the existing pavement shall be done under supervision of the M-NCPPC Urban Forester and the Construction Inspector.
- 7. Stabilize area per approved plan or as directed by Construction Inspector.



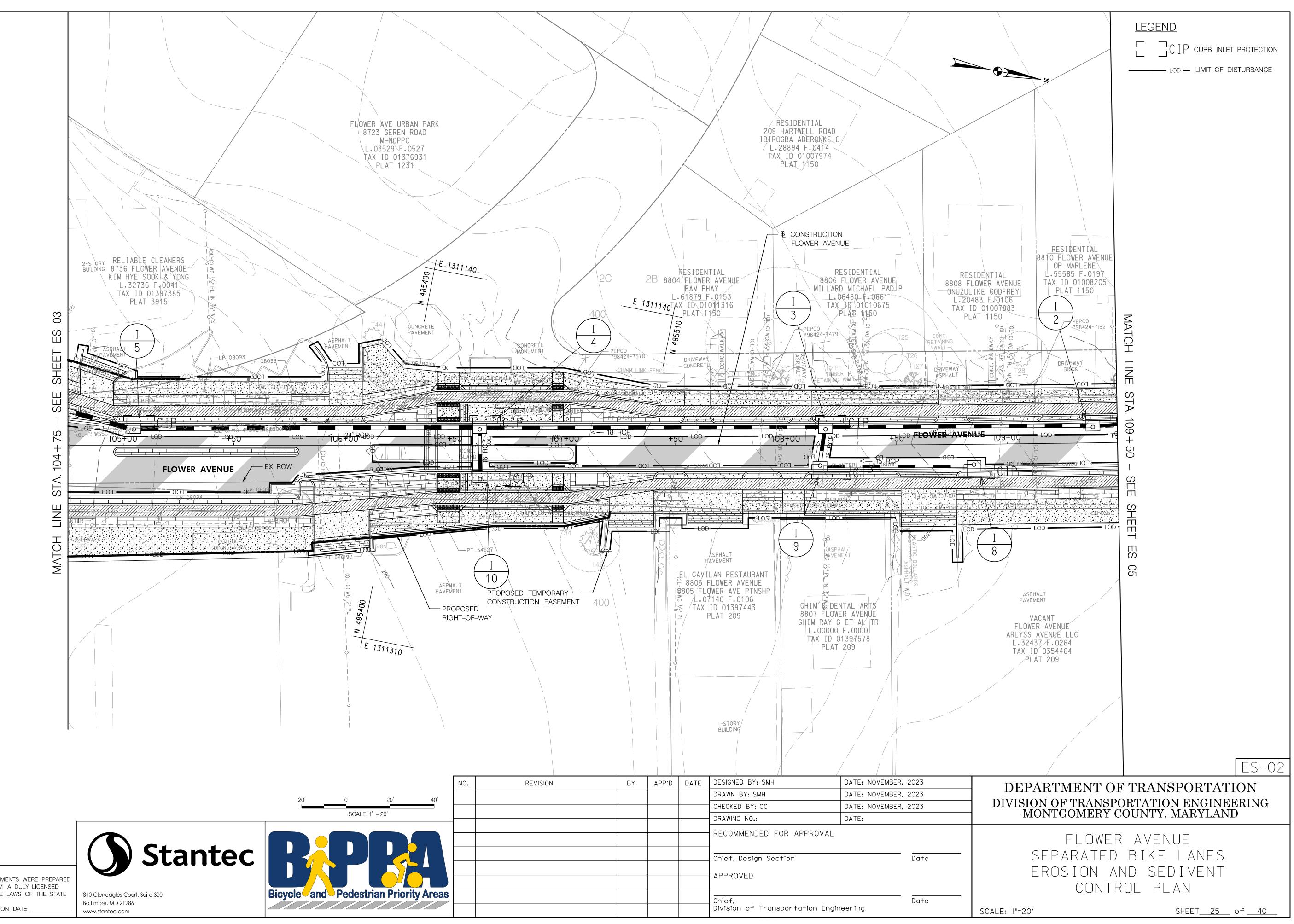




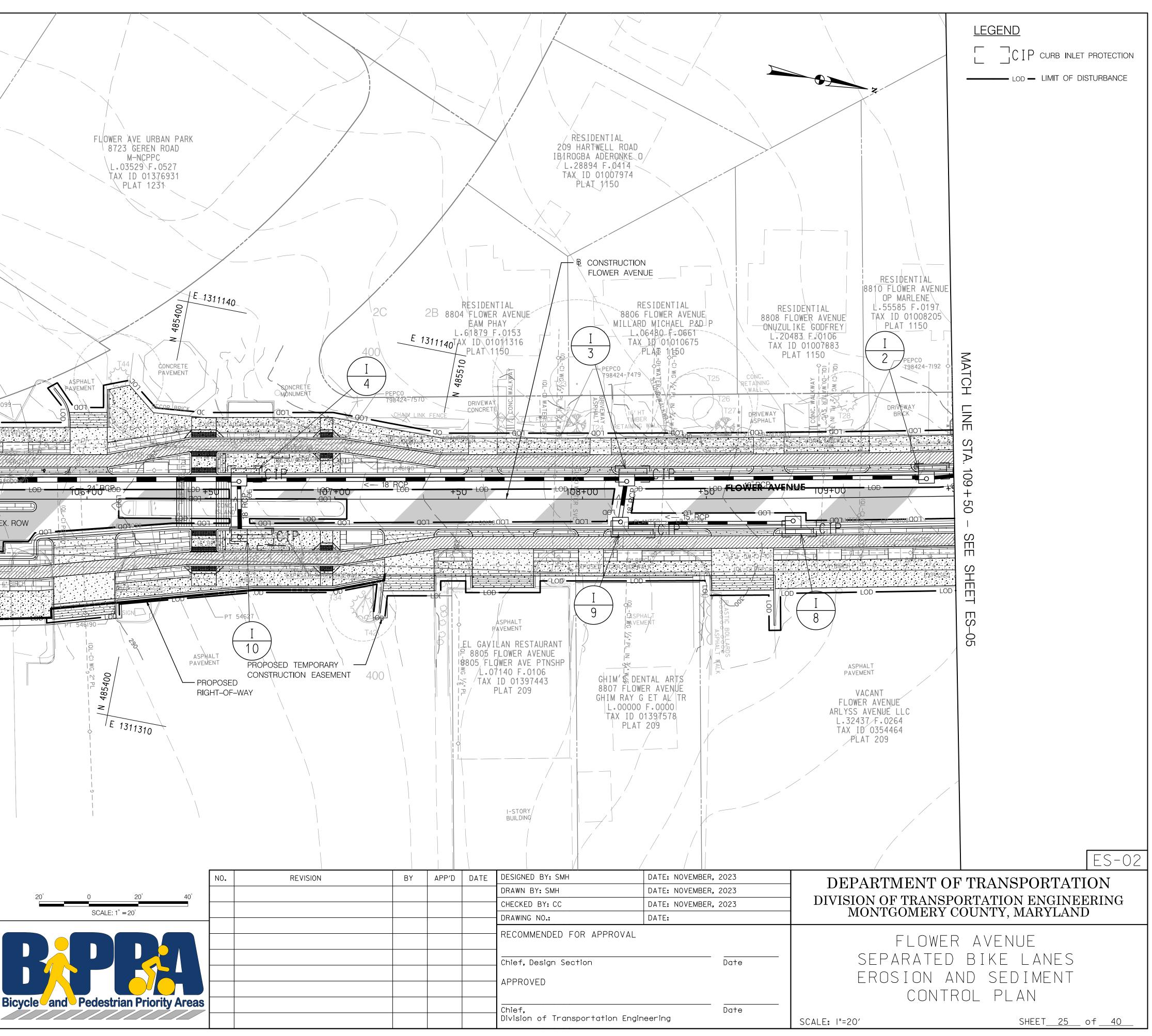
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						RECOMMENDED FOR APP Chief, Design Section APPROVED	ROVAL	Date
riority Areas						Chief, Division of Transportati	on Engineering	Date

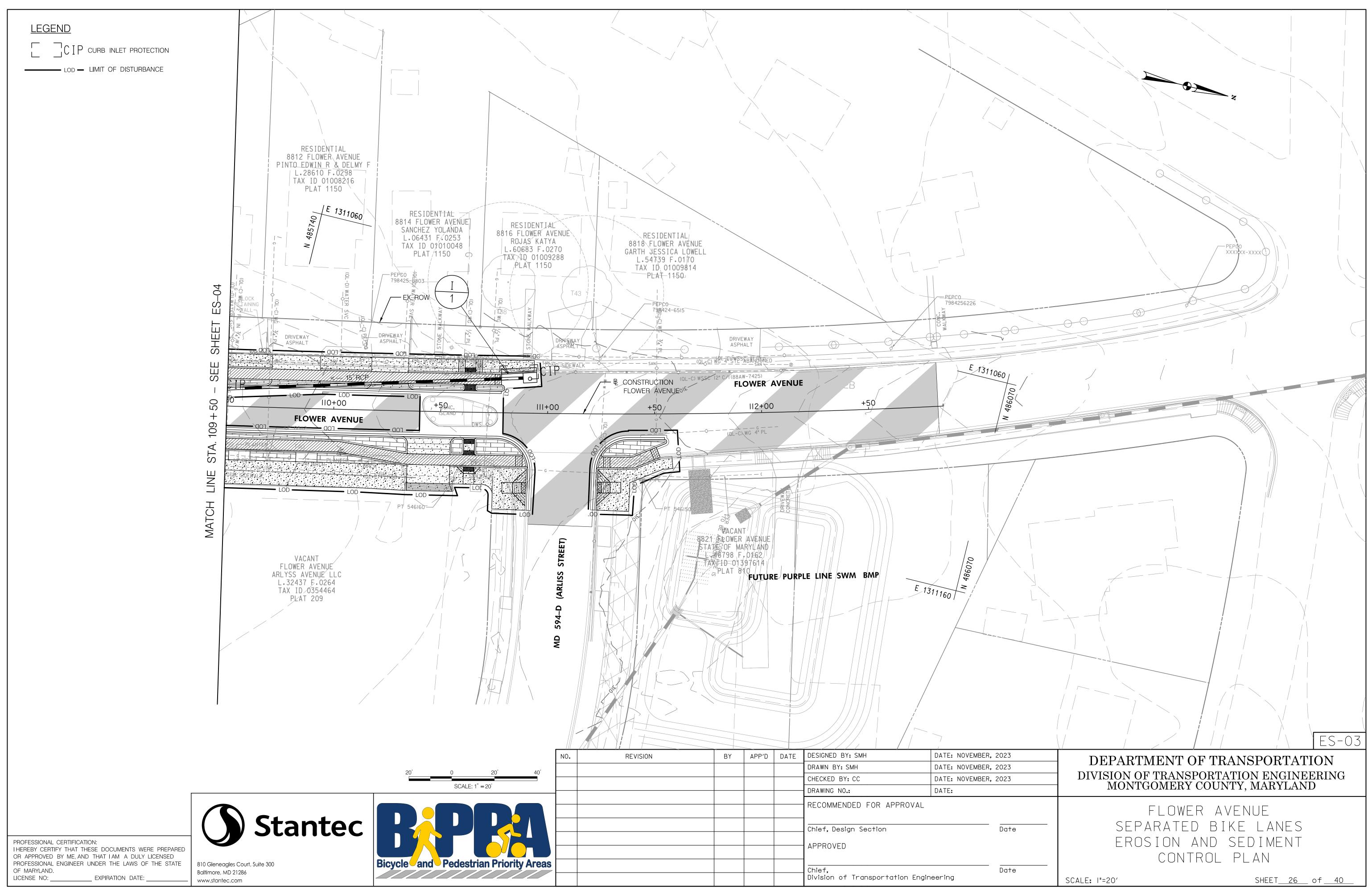


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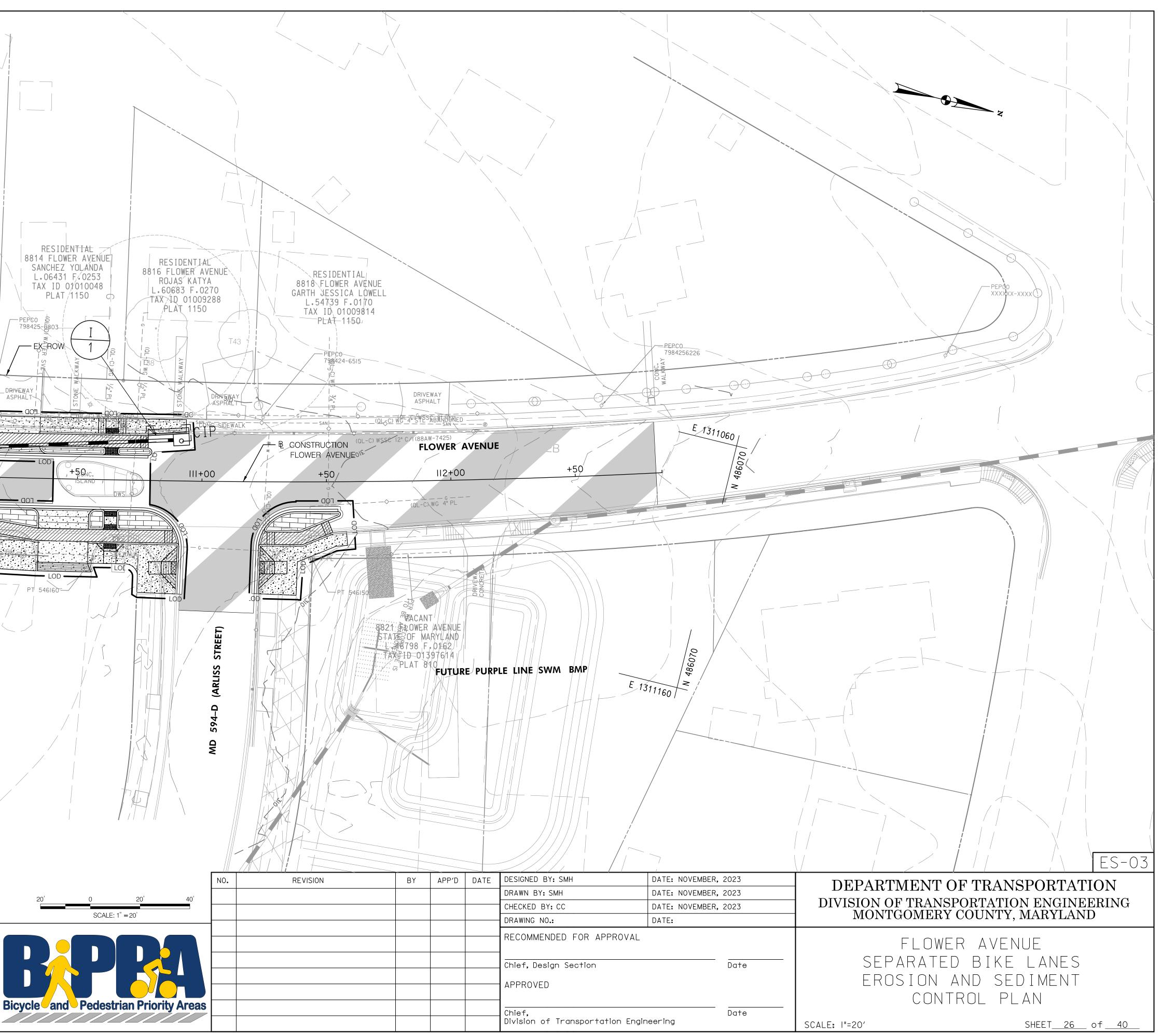
PROFESSIONAL CERTIFICATION: I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND. LICENSE NO: EXPIRATION DATE:

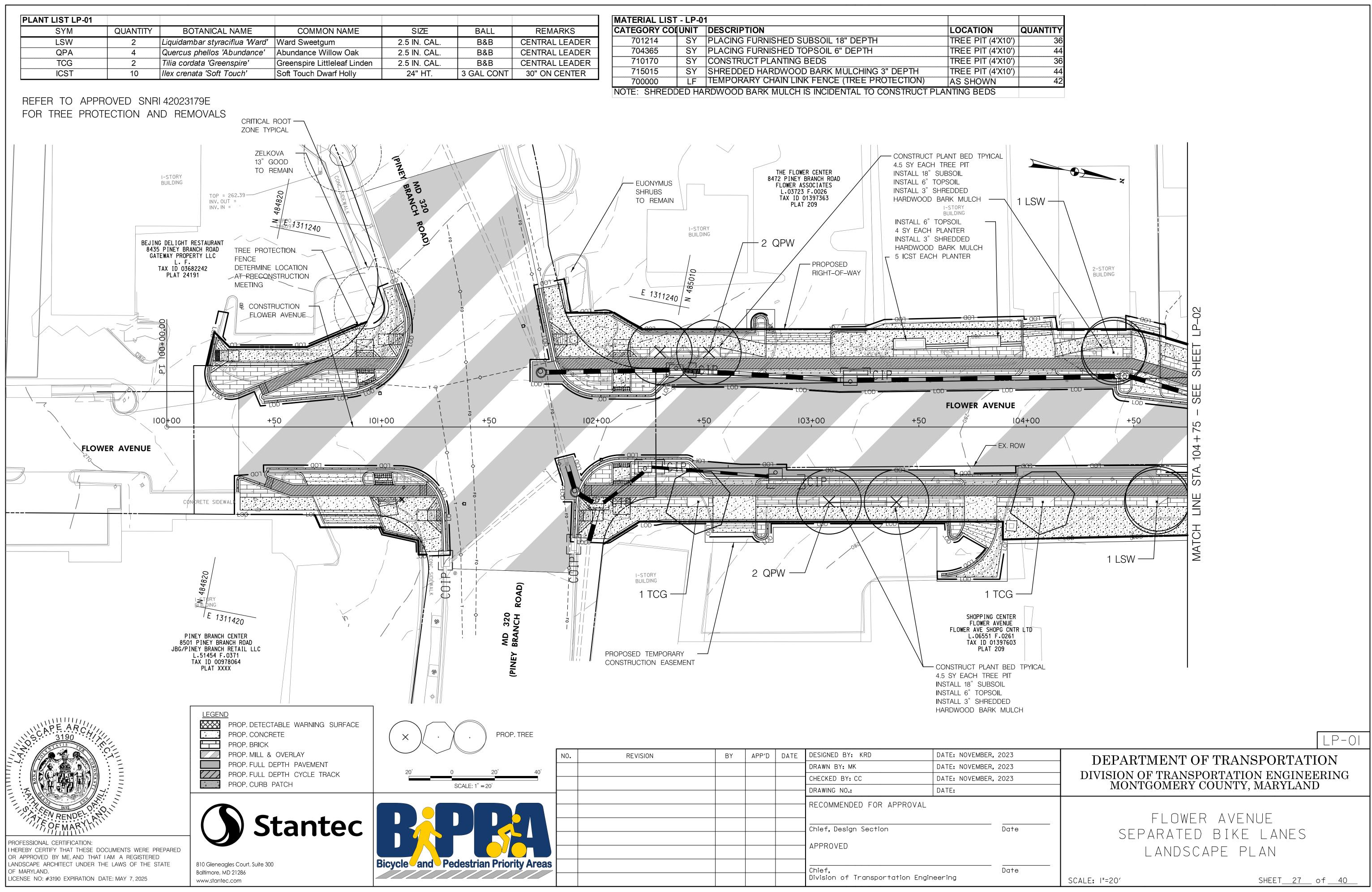




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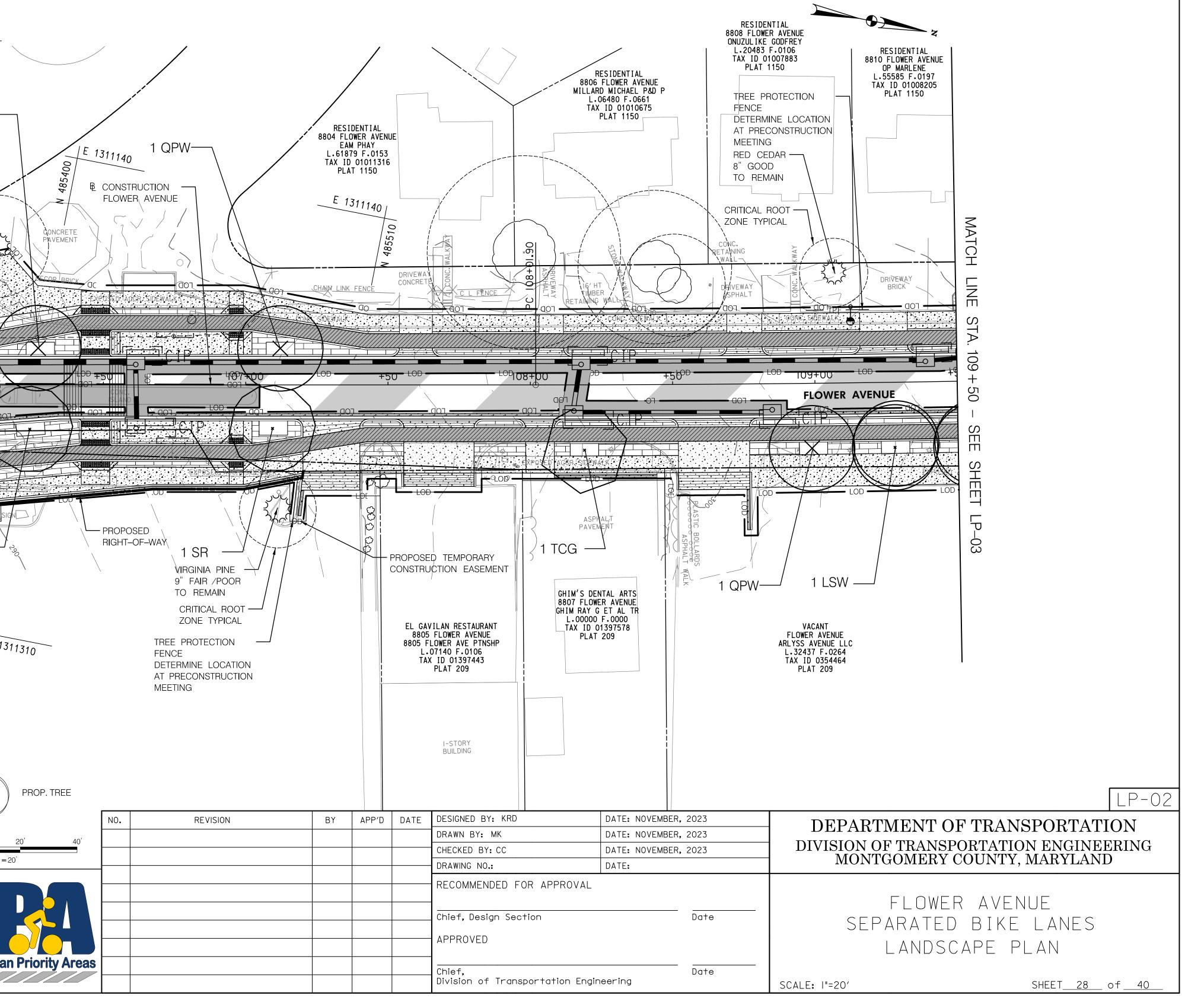
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B&B	CENTRAL LEADER
B&B	CENTRAL LEADER
B&B	CENTRAL LEADER
AL CONT	30" ON CENTER

CATEGORY CO		DESCRIPTION	LOCATION
701214	SY	PLACING FURNISHED SUBSOIL 18" DEPTH	TREE PIT (4'X10')
704365	SY	PLACING FURNISHED TOPSOIL 6" DEPTH	TREE PIT (4'X10')
710170	SY	CONSTRUCT PLANTING BEDS	TREE PIT (4'X10')
715015	SY	SHREDDED HARDWOOD BARK MULCHING 3" DEPTH	TREE PIT (4'X10')
700000	LF	TEMPORARY CHAIN LINK FENCE (TREE PROTECTION)	AS SHOWN

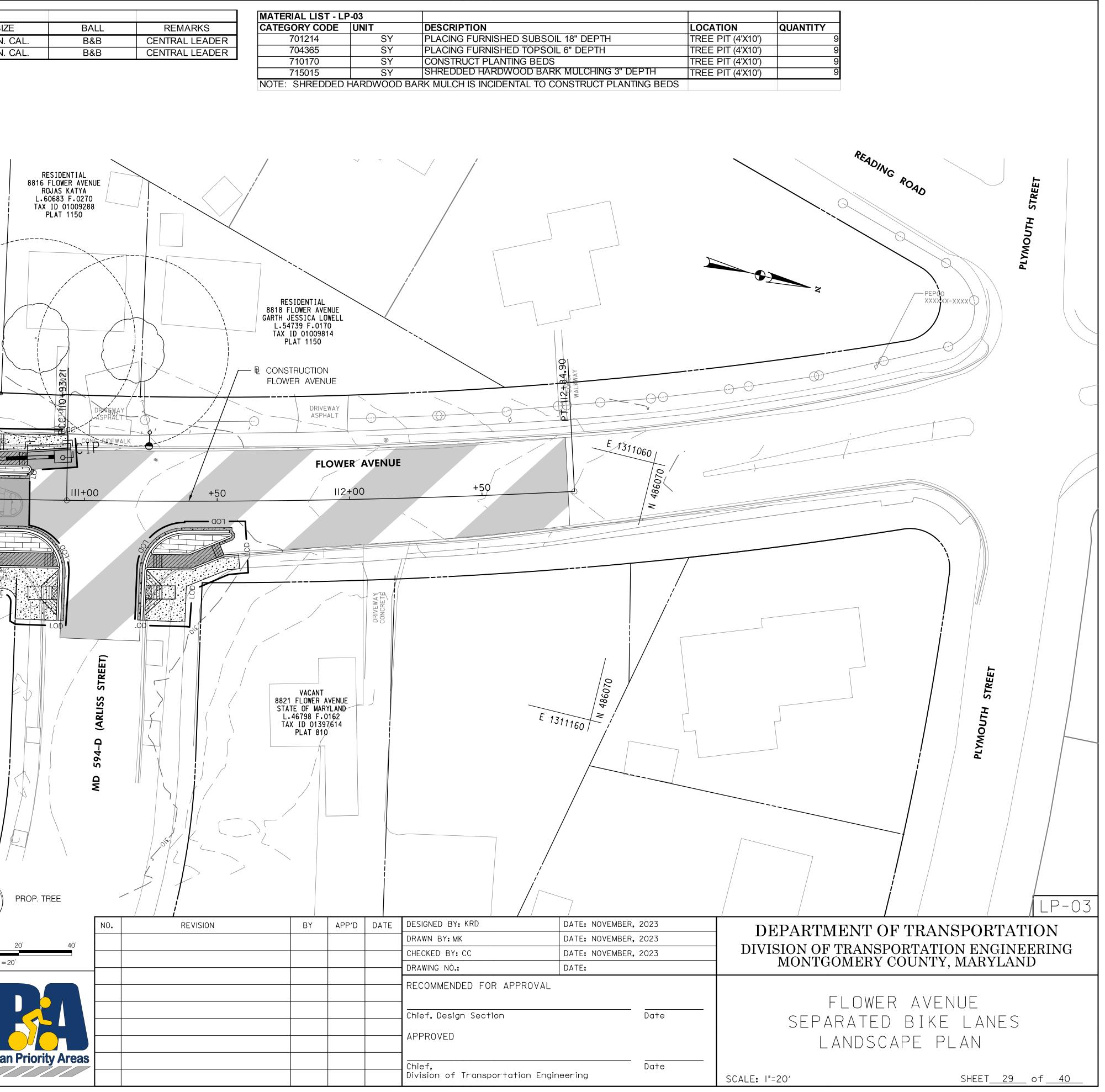
PROP. IREE								
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						CHECKED BY: CC	DATE: NOVEM	BER, 2023
" =20'						DRAWING NO.:	DATE:	
						RECOMMENDED FOR APP	ROVAL	
						Chief, Design Section		Date
ian Priority Areas						Chief, Division of Transportatio	on Engineering	Date

PLANT LIST LP-02					]	MATERIA	AL LIST - LP-02	
SYM QUANTITY	BOTANICAL NAME		SIZE	BALL	REMARKS	CATEGO	RY COLUNIT DESCRIPTION	
LSW 2 QPA 3			2.5 IN. CAL.		CENTRAL LEADER	7012		TREE PIT (4'X10') 49.5
SR 3	Syringa reticulata		2.5 IN. CAL.	B&B		7101	70 SY CONSTRUCT PLANTING BEDS	TREE PIT (4'X10') 49.5
TCG 3	Tilia cordata 'Greenspire' Greensp	bire Littleleaf Linden 2	2.5 IN. CAL.	B&B (	CENTRAL LEADER	7150		
REFER TO APPROVED SNRI 4							HREDDED HARDWOOD BARK MULCH IS INCIDENTAL TO	
REFER TO APPROVED SNRI4 FOR TREE PROTECTION AND	REMOVALS	PROTECTION RECONSTRUCTION ING CONC D CONC D CONC D CONC D CONC D CONC D CONC D CONC D CONC D CONC D CONC D CONC D CONC D CONC D CONC D CONC D CONC D CONC D CONC D CONC D CONC D CONC D CONC D CONC D CONC D CONC D CONC D CONC D CONC D CONC D CONC D CONC D CONC D CONC D CONC D CONC D CONC D CONC D CONC D CONC D CONC D CONC D CONC D CONC D CONC D CONC D CONC D CONC D CONC D CONC D CONC D CONC D CONC D CONC D CONC D CONC D CONC D CONC D CONC D CONC D CONC D CONC D CONC D CONC D CONC D CONC D CONC D CONC D CONC D CONC D CONC D CONC D CONC D CONC D CONC D CONC D CONC D CONC D CONC D CONC D CONC D CONC D CONC D CONC D CONC D CONC D CONC D CONC D CONC D CONC D CONC D CONC D CONC D CONC D CONC D CONC D CONC D CONC D CONC D CONC D CONC D CONC D CONC D CONC D CONC D CONC D CONC D CONC D CONC D CONC D CONC D CONC D CONC D CONC D CONC D CONC D CONC D CONC D CONC D CONC D CONC D CONC D CONC D CONC D CONC D CONC D CONC D CONC D CONC D CONC D CONC D CONC D CONC D CONC D CONC D CONC D CONC D CONC D CONC D CONC D CONC D CONC CONC	CRETE MENT BRICK QC EXPOSED AGGR SIT		RESIDEN 8804 FLOWEI EAM PL L61879 TAX ID 01 PLAT 1 E 1311	NOTE: S	RESIDENTIAL RESIDENTIAL 8806 FLOWER AVENUE MILLARD MICHAEL P&D P L.06480 F.0661 TAX 10505 PLAT 1150 RESIDENTIAL 8806 FLOWER AVENUE MILLARD MICHAEL P&D P L.06480 F.0661 TAX 10505 PLAT 1150 CRITICA ZONE	DECONSTRUCT PLANTING BEDS
PROFESSIONAL CERTIFICATION: IHEREBY CERTIFICA	INSTALL 3" SHREDDED HARDWOOD BARK MULCH	E 1311310	REE	TREE PROTECTION FENCE DETERMINE LOCATION AT PRECONSTRUCTION MEETING REVISION		APP'D DATE	VILAN RESTAURANT FLOWER AVENUE LOWER AVENUE LOWER AVENUE LOWER AVENUE ILOWER AVENUE DOTIO 139743 PLAT 209 I-STORY BUILDING DESIGNED BY: KRD DATE: NOVEMBER, 2023 DRAWN BY: MK DATE: NOVEMBER, 2023 CHECKED BY: CC DATE: NOVEMBER, 2023 DRAWING NO.: DATE: RECOMMENDED FOR APPROVAL Chief, Design Section APPROVED	VACANT FLOWER AVENUE ARLYSS AVENUE LLC L.32437 F.0264 TAX ID 0354464 PLAT 209 DEPARTMENT OF TRANSPOR DIVISION OF TRANSPORTATION H MONTGOMERY COUNTY, MA FLOWER AVENUE SEPARATED BIKE L LANDSCAPE PLA
OF MARYLAND. LICENSE NO: #3190 EXPIRATION DATE: MAY 7, 2025	Baltimore, MD 21286 www.stantec.com						Chief, Date Date	SCALE: I"=20' SHI
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PLANT LIST LP-03 SYM LSW	QUANTITY 1	BOTANICAL NAME Liquidambar styraciflua 'Ward'	COMMON NAME Ward Sweetgum	SIZE 2.5 IN. CAL.	BALL B&B	REMARKS CENTRAL LEADER	MATERIAL LIST - LP-03CATEGORY CODEUNIT701214	DESCRIPT SY PLACING F	ION FURNISHED SUBSOIL 18" DEPTH
TCG		Tilia cordata 'Greenspire'	Greenspire Littleleaf Linden	2.5 IN. CAL.	B&B	CENTRAL LEADER		SY CONSTRUC	URNISHED TOPSOIL 6" DEPTH CT PLANTING BEDS
REFER TO APPR									D HARDWOOD BARK MULCHING 3" DEPTH S INCIDENTAL TO CONSTRUCT PLANTING BE
FOR TREE PRO	IECTION AN	D REMOVALS							
FOR TREE PROT	FECTION AN	MATCH LINE STA. 109+50 - SEE SHEET LP-02	L.28610 F.0298 TAX ID 01008216 PLAT 1150	14 FLOWER AVENUE ANCHEZ YOLANDA 	DRWEWAY ASPHALT		RESIDENTIAL 8818 FLOWER AVENUE GARTH JESSICA LOWELL L.54739 F.0170 TAX ID 01009814 PLAT 1150 E CONSTRUCTION FLOWER AVENUE RICOWER AVENUE II2+00 VACANT 8821 FLOWER AVENUE STATE OF MARYLAND L.46798 F.0162 TAX ID 01397614 PLAT 810		E 1311160
		LEGEND ROP. DETECTA	BLE WARNING SURFACE		MD 594				
SCAPE ARCH	, ,,,	PROP. CONCRET			IREE /	7//			
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			PTH CYCLE TRACK	20' 0 20'	40'			DRAWN BY: MK CHECKED BY: CC	DATE: NOVEMBER, 2023 DATE: NOVEMBER, 2023
		PROP. CURB PA	ЛСН	SCALE: 1" = 20'				DRAWING NO.:	DATE:
								RECOMMENDE	) FOR APPROVAL
FOF MARY K		( <b>)</b> St	antec					Chief, Design	Section Date
PROFESSIONAL CERTIFICATION: I HEREBY CERTIFY THAT THESE D	OCUMENTS WERE PE							APPROVED	
OR APPROVED BY ME, AND THAT	LAM A REGISTERED		Biovo	e and Pedestrian Prior					
LANDSCAPE ARCHITECT UNDER 1 OF MARYLAND.	HE LAWS OF THE S	ATE 810 Gleneagles Court, Suite 300 Baltimore, MD 21286						Chief,	 Date



	GENERAL LANDSCAPE NOTES	7.6
	1.INSTALL A MINIMUM OF 4 IN. DEPTH TOPSOIL IN TURFGRASS ESTABLISHMENT AREAS. 2. TREAT AND REMOVE INVASIVE SPECIES WHERE INDICATED ON THE PLANS AND WHERE DIRECTED BY THE ENGINEER . 3. RETAIN DESIRABLE TREES, SHRUBS, AND PERENNIALS EXCEPT WHERE INDICATED ON THE PLANS OR DIRECTED BY THE	AGC NEC SUB
	ENGINEER. 4. DO NOT REMOVE OR PRUNE THE BRANCHES OR ROOTS OF TREES WITHIN MOOT SHA RIGHT-OF-WAY WITHOUT AN	7.7
	APPROVED ROADSIDE TREE PERMIT OR REFORESTATION SITE REVIEW APPROVAL FROM THE MD DEPARTMENT OF NATURAL RESOURCES	TRE FUT
	FOREST SERVICE. 5. PLANT IN CLUSTERS OF 3 TO 5 INDIVIDUAL TREES/SHRUBS OF LIKE SPECIES TO CREATE A PATTERN CONSISTENT WITH NATURAL	7.8 EXC
	FOREST DEVELOPMENT.	APP
	SITE SPECIFIC NOTES	1. 2:1 /
	<ul> <li>1.TREE PLANTING SETBACKS:</li> <li>A. NO TREES SHALL BE LOCATED IN CLEAR ZONES ADJACENT TO TRAVEL LANES OR IN INTERSECTION SIGHT TRIANGLES.</li> <li>1. IN FILL SLOPES OF 5:1 TO 4:1 THE MINIMUM OFFSET DISTANCE TO TREE TRUNKS FOR A TRAVEL LANE WITH A</li> </ul>	2. STE 3. BI FILT
	POSTED SPEED OF 55 MPH IS 30 FEET. B. MAINTAIN OFFSETS FROM OVERHEAD ELECTRIC LINES AS PER THE FOLLOWING BASED ON SIZE AT MATURITY: 1. OFFSET SMALL TREES (UNDER 20 FT. HEIGHT AT MATURITY) 20 FT. FROM WIRES AND POLES. 2. OFFSET MEDIUM TREES (20-50 FT. HEIGHT AT MATURITY AND MEDIUM AND LARGE COLUMNAR TREES 20 FT. WIDE	NOT STO
	AT MATURITY) 30 FT. FROM WIRES AND POLES.	7.9 THE
	3. OFFSET LARGE TREES (OVER 50 FT. HEIGHT AT MATURITY) 50 FT. FROM WIRES AND POLES. C. INSTALL TREES AT LEAST 7 FT. PLUS HALF THE PIPE DIAMATER FROM THE CENTERLINE OF WATER, GAS, AND SANITARY SEWER	RAT MAF
	LINES. ADDITIONAL SETBACKS MAY BE REQUIRED BY THE OWNER OF THE UTILITY. D. INSTALL TREES AT LEAST 7 FT. PLUS HALF THE PIPE DIAMETER OF UNDERGROUND STORM DRAIN PIPES. E. INSTALL TREES AT LEAST 15 FT. FROM BACK OF TRAFFIC BARRIERS.	7.10 PLA 20-1
	F. INSTALL SHADE TREES AND UPRIGHT/COLUMNAR ORNAMENTAL TREES AT LEAST 5 FT. BACK FROM THE BACK OF CURB IN	7.11
	CLOSED-SECTION MEDIAN PLANTINGS. G. INCREASE SETBACKS FROM ROADS, SIDEWALKS, TRAFFIC CONTROL DEVICES AND STRUCTURES FOR MULTISTEMMED AND/OR	SPE SEC
	BROAD-SPREADING ORNAMENTAL TREES TO MAINTAIN NECESSARY BRANCH CLEARANCE. 2.SHRUB PLANTING SETBACKS:	HYD
	A. INSTALL SHRUBS AT LEAST 10 FT. FROM TRAFFIC BARRIERS. B. DO NOT INSTALL SHRUBS IN SIGHT TRIANGLES FOR INTERSECTIONS WHERE THE MATURE HEIGHT OF THE SHRUBS WHEN ADDED	STR NOT
	TO EXISTING TERRAIN WILL EXCEED 30 IN. HEIGHT. MDTA LANDSCAPE NOTES	MAT EST
	7.1 LANDSCAPE NOTES. LANDSCAPE CONSTRUCTION WITHIN THE RIGHT OF WAY OF THE MARYLAND STATE HIGHWAY ADMINISTRATION (SHA) AND MARYLAND TRANSPORTATION AUTHORITY (MDTA) WITHIN STATE PROPERTY, EASEMENT AREAS AND LANDS TO BE CONVEYED TO SHA/MTA SHALL CONFORM TO THESE NOTES. FOR GUIDANCE REGARDING DESIGN MODIFICATIONS DURING CONSTRUCTION, REFER TO SHA LANDSCAPE DESIGN GUIDE, SHA LANDSCAPE ESTIMATING MANUAL, AND SHA ENVIRONMENTAL GUIDE FOR ACCESS AND DISTRICT PERMIT APPLICANTS AT HTTP://WWW.ROADS.MARYLAND.GOV/INDEX.ASPX?PAGEID=25	
	<ul> <li>7.2 SHA STANDARD SPECIFICATIONS. LANDSCAPE CONSTRUCTION SHALL CONFORM TO SECTIONS 701 THROUGH 716, AND LANDSCAPE MATERIALS SHALL CONFORM TO SECTION 920 OF THE MOST RECENT REVISION OF SHA STANDARD SPECIFICATIONS FOR CONSTRUCTION AND MATERIALS, INCLUDING ALL REVISIONS AND SUPPLEMENTS, AND AS SPECIFIED IN THESE NOTES. THESE REQUIREMENTS SHALL SUPERSEDE ALL OTHER SPECIFICATIONS FOR WORK ON SHA PROPERTY. CURRENT SPECIFICATIONS ARE AT HTTP://WWW.ROADS.MARYLAND.GOV/INDEX.ASPX?PAGEID=44</li> <li>7.3 EROSION AND SEDIMENT CONTROL MANAGER (ESCM). SOIL DISTURBANCE SUCH AS GRADING, EXCAVATION, SOIL PLACEMENT OR OTHER ACTIVITIES THAT INVOLVE SOIL DISTURBANCE SHALL BE SUPERVISED BY AN ESCM MANAGER WITH A</li> </ul>	
	VALID "SHA YELLOW CARD" IN CONFORMANCE WITH SHA STANDARD SPECIFICATIONS AND ANY APPLICABLE EROSION AND SEDIMENT CONTROL PERMIT.	
	7.4 SHA STANDARD DETAILS FOR TREES, SHRUBS AND PLANTING BEDS. THE INSTALLATION OF TREES, SHRUBS, PLANTING BEDS AND OTHER LANDSCAPE CONSTRUCTION RELATED TO SECTION 710 OF THE SHA STANDARD SPECIFICATIONS SHALL CONFORM TO THE "SHA BOOK OF STANDARDS FOR HIGHWAY & INCIDENTAL STRUCTURES - CATEGORY 7" AT <u>HTTP://APPS.ROADS.MARYLAND.GOV/BUSINESSWITHSHA/BIZSTDSSPECS/DESMANUALSTDPUB</u> /PUBLICATIONSONLINE/OHD/BOOKSTD/TOCCAT7.ASP.	
	7.5 TEMPORARY STABILIZATION SHALL BE INSTALLED IN CONFORMANCE WITH SECTION 704 TO ENSURE THAT AREAS OF SOIL DISTURBANCE ARE PROTECTED FROM WIND, RAINFALL AND FLOWING WATER UNTIL PERMANENT STABILIZATION IS INSTALLED.	
	1. TEMPORARY MULCH, EITHER AS TEMPORARY STRAW MULCH OR TEMPORARY MATTING MULCH, SHALL BE INSTALLED AT THE END OF EACH WORKING DAY TO PROVIDE "SAME DAY STABILIZATION" UNLESS OTHER APPROVED STABILIZATION IS	-
	INSTALLED. 2. TEMPORARY STRAW MULCH SHALL BE INSTALLED ON AREAS AND SLOPES FLATTER THAN 4:1 TEMPORARY MATTING MUL OLIVATE DE ADDUISD ON OLIVIER AND OTESDED, AND TO ADEAD WITH OLIVANISE O	
	MULCH SHALL BE APPLIED ON SLOPES 4:1 AND STEEPER, AND TO AREAS WITIN CHANNELS. 3. TEMPORARY SEED SHALL BE INSTALLED IN LIEU OF TEMPORARY MULCH WHEN SOIL REDISTURBANCE IS EXPECTED MORE THAN 30 DAYS AFTER SOIL DISTURBANCE. THE REQUIRED APPLICATION RATE SHALL BE 100 LBS PER ACRE OF 37-0-0 (SCU) FERTILIZER.	
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	N RENDEL PHONE IN Stantec	
	SIONAL CERTIFICATION: Y CERTIFY THAT THESE DOCUMENTS WERE PREPARED	
r apf	PROVED BY ME, AND THAT I AM A REGISTERED APE ARCHITECT UNDER THE LAWS OF THE STATE 810 Gleneagles Court, Suite 300 Bicycle and Pede	stria

Baltimore, MD 21286

www.stantec.com

MARYLAND

CENSE NO: #3190 EXPIRATION DATE: MAY 7, 2025

6 ROADWAY PAVEMENT REMOVAL. AREAS OF ROADWAY REMOVAL SHALL BE EXCAVATED TO REMOVED PAVEMENTS, GGREGATE BASE, AND COMPACTED SOIL TO A MINIMUM DEPTH OF 10 INCHES BELOW THE PAVEMENT SURFACE OR AS ECESSARY TO REMOVE ALL MATERIAL UNSUITABLE FOR LANDSCAPING. THE EXCAVATION AREAS SHALL BE RESTORED WITH JBSOIL AND TOPSOIL AS PART OF SOIL RESTORATION.

.7 EXCAVATION AND DEBRIS REMOVAL. DEBRIS RELATED TO THE DEMOLITION OF SIDEWALKS, DRIVEWAYS, CURBS, REES, STUMPS, ROOTS, FENCING, PIPES, AND OTHER MATERIALS THAT MAY INTERFERE WITH LANDSCAPE INSTALLATION OR JTURE MAINTENANCE SHALL BE EXCAVATED AS NECESSARY FOR THEIR COMPLETE REMOVAL AND DISPOSAL.

8 SOIL RESTORATION. AREAS OF PAVEMENT REMOVAL, EXCAVATION OR DRILLING IN LANDSCAPED AREAS SHALL REMOVE (CAVATED DEBRIS AND RESTORE THE SUBGRADE WITH

PROVED SUBSOIL AND TOPSOIL PLACED IN CONFORMANCE WITH SECTION 701 OF THE SHA STANDARD SPECIFICATIONS.

A LAYER OF APPROVED TOPSOIL AT LEAST 4 INCH DEPTH SHALL BE PLACED ON ALL DISTURBED AREAS FLATTER THAN 1 AND IN ALL CHANNELS PRIOR TO SEEDING, SODDING OR OTHER LANDSCAPING, UNLESS OTHERWISE SPECIFIED. A LAYER OF APPROVED TOPSOIL AT LEAST 2 INCH DEPTH SHALL BE PLACED ON ALL DISTURBED AREAS 2:1 AND TEEPER PRIOR TO SEEDING, SODDING OR OTHER LANDSCAPING, UNLESS OTHERWISE SPECIFIED. BIORETENTION SOIL MIX (BSM) AND OTHER MATERIALS INSTALLED IN CONJUNCTION WITH SPI 316 - STORMWATER

LTRATION FACILITIES AND SHA STORMWATER DETAILS SHALL BE INSTALLED IN CONFORMANCE WITH THE SHA LANDSCAPE OTES AND LANDSCAPE PLANS. PLANT MATERIALS AND MULCH SHALL BE INSTALLED IN BSM IN CONFORMANCE WITH FORMWATER DETAILS, SECTION 710 OR OTHER SHA SPECIFICATIONS.

9 TURFGRASS SOD ESTABLISHMENT SHALL BE PERFORMED IN ALL DISTURBED AREAS, OR WITHIN THE AREAS INDICATED IN HE PLANS, IN CONFORMANCE WITH SECTION 708 OF THE SHA STANDARD SPECIFICATIONS. THE REQUIRED APPLICATION ATE OF 20-16-12 FERTILIZER SHALL BE 200 LBS PER ACRE, AND NO FERTILIZER SHALL BE APPLIED FROM NOVEMBER 15 TO ARCH 1.

10 TURFGRASS ESTABLISHMENT SHALL BE PERFORMED IN ALL DISTURED AREAS, OR WITHIN THE AREAS INDICATED IN THE LANS, IN CONFORMANCE WITH SECTION 705 OF THE SHA STANDARD SPECIFICATIONS. THE REQUIRED APPLICATION RATE OF 0-16-12 FERTILIZER SHALL BE 200 LBS PER ACRE, AND NO FERTILIZER SHALL BE APPLIED FROM NOVEMBER 15 TO MARCH 1.

11 SOIL STABILIZATION MATTING SHALL BE INSTALLED IN CONFORMATCE WITH SECTION 709 OF THE SAHA STANDARD PECIFICATIONS, IN CONJUCTION WITH TRUFGRASS ESTABLISHMENT PER SECTION 705 OR MEADOW ESTABLISHMENT PER ECTION 707 AS FOLLOWS:

1. AREAS FLATTER THAN 6:1. TYPE A OR TYPE E MATTING MAY BE INSTALLED IN LIEU OF STRAW MULCH AND YDROMULCH BINDER IN CONJUCTION WITH TURFGRASS ESTABLISHMENT.

2. AREAS STEEEPER THAN 6:1 AND FLATTER THAN 4:1. TYPE A OR TYPE E MATTING SHALL BE INSTALLED IN LIEU OF TRAW MULCH AND HYDORMULCH BINDER IN CONJUCTION WITH TURFGRASS ESTABLISHMENT, UNLESS DELINEATED AND OTED OTHERWISE.

3. CHANNELS, STORMWATER MANAGEMENT FACILITIES, AND SLOPES 4:1 AND STEEPER TYPE A SOIL STABILIZATION ATTING SHALL BE INSTALLED IN LIEU OF STRAW MULCH AND HYDROMULCH BINDR IN CONJUCTION WITH TURFGRASS STABLISHMENT, UNLESS DELINEATED AND NOTED OTHERWISE. 7.13 TREE PRESERVATION AREAS. TEMPORARY ORANGE CONSTRUCTION FENCE (TOCF) SHALL BE INSTALLED IN LOCATIONS DELINEATED ON THE PLANS IN CONFORMANCE WITH SECTION 120 OF THE SHA STANDARD SPECIFICATION TO PROTECT EXISTING TREES AND OTHER VEGETATION DURING CONSTRUCTION. AREAS WITHIN TOCF SHALL BE PROTECTED FROM ALL PROHIBITED AND RESTRICTED ACTIVITIES, AS SPECIFIED IN SECTION 120.

7.14 ROADSIDE TREE PERMIT. TREE REMOVAL, TREE INSTALLATION, TREE ROOT AND BRANCH PRUNING, AND OTHER REGULATED IMPACTS TO TREES IN THE SHA RIGHT OF WAY SHALL CONFORM TO THE REQUIREMENTS OF THE ROADSIDE TREE PERMIT (RTP) OF THE MARYLAND DEPARTMENT OF NATURAL RESOURCES, OR THE APPROVED FOREST CONSERVATION ACT PLAN OF THE LOCAL AUTHORITY.

1. A COPY OF THE RTP OR FCP SHALL BE SUBMITTED TO THE SHA OFFICE OF ENVIRONMENTAL DESIGN BEFORE WORK IS PERFORMED, AND A COPY OF THE RTP OR FCP SHALL BE REPRODUCED IN THE PLANS OR BE IN POSSESSION OF THE APPLICANT AT THE PROJECT SITE WHEN THE PERMITTED WORK IS PERFORMED.

2. A MARYLAND LICENSED TREE EXPERT SHALL PERFORM THE SPECIFIED TREE OPERATIONS IN CONFORMANCE WITH THE SHA STANDARD SPECIFICATIONS AND ANSI A300 STANDARDS FOR TREE CARE OPERATIONS.

7.15 TREES AND OTHER PLANT MATERIAL INSTALLATION. TREES, SHRUBS, PERENNIALS, ANNUALS, BULBS, LANDSCAPE BEDS, BARK MULCH AND SIMILAR MATERIALS SHALL BE INSTALLED IN CONFORMANCE WITH SECTION 710 AND 711 OF THE SHA STANDARD SPECIFICATIONS. TREE AND SHRUBS SHALL BE PRUNED AT THE TIME OF INSTALLATION TO ENSURE SIDEWALK CLEARANCE FOR PEDESTRIANS IS MAINTAINED TO A HEIGHT OF 8 FEET. NO TREE OR SHRUB SHALL BE INSTALLED WITHIN 3 FEET OF CURBS, SIDEWALKS, OR PAVEMENT EDGES.

7.20 STUMP REMOVAL. STUMP REMOVAL IN TURFGRASS OR MEADOW AREAS SHALL BE PERMFORMED IN CONFORMANCE WITH OPERATION 5 - STUMP REMOVAL OF SECTION 714.

7.21 TREE BRANCH PRUNING SHALL BE PERFORMED OR DIRECTLY SUPERVISED BY A MARYLAND LICENSED TREE EXPERT IN CONFORMANCE WITH ANSI A300 STANDARDS PER SECTION 712 AS NECESSARY FOR ANY OF THE FOLLOWING: TO INSTALL TEMPORARY ORANGE CONSTRUCTION FENCE (TOCF) ALONG DELINEATIONS OF PLANS; TO PERFORM TREE ROOT PRUNING ALONG DELINEATIONS ON PLANS; TO PROVIDE 8 FOOT CLEARANCE ABOVE SIDEWALK PAVEMENTS AND 16 FOOT CLEARANCE ABOVE ROADWAY PAVEMENTS: TO REPAIR TREE WOUNDS; AND TO PERFORM OTHER RECOMMENDED CLEANING, THINNING, REDUCING, AND PRUNING NECESSARY TO ACCOMMODATE UTILITIES. ALL DEBRIS SHALL BE REMOVED FROM SHA PROPERTY.

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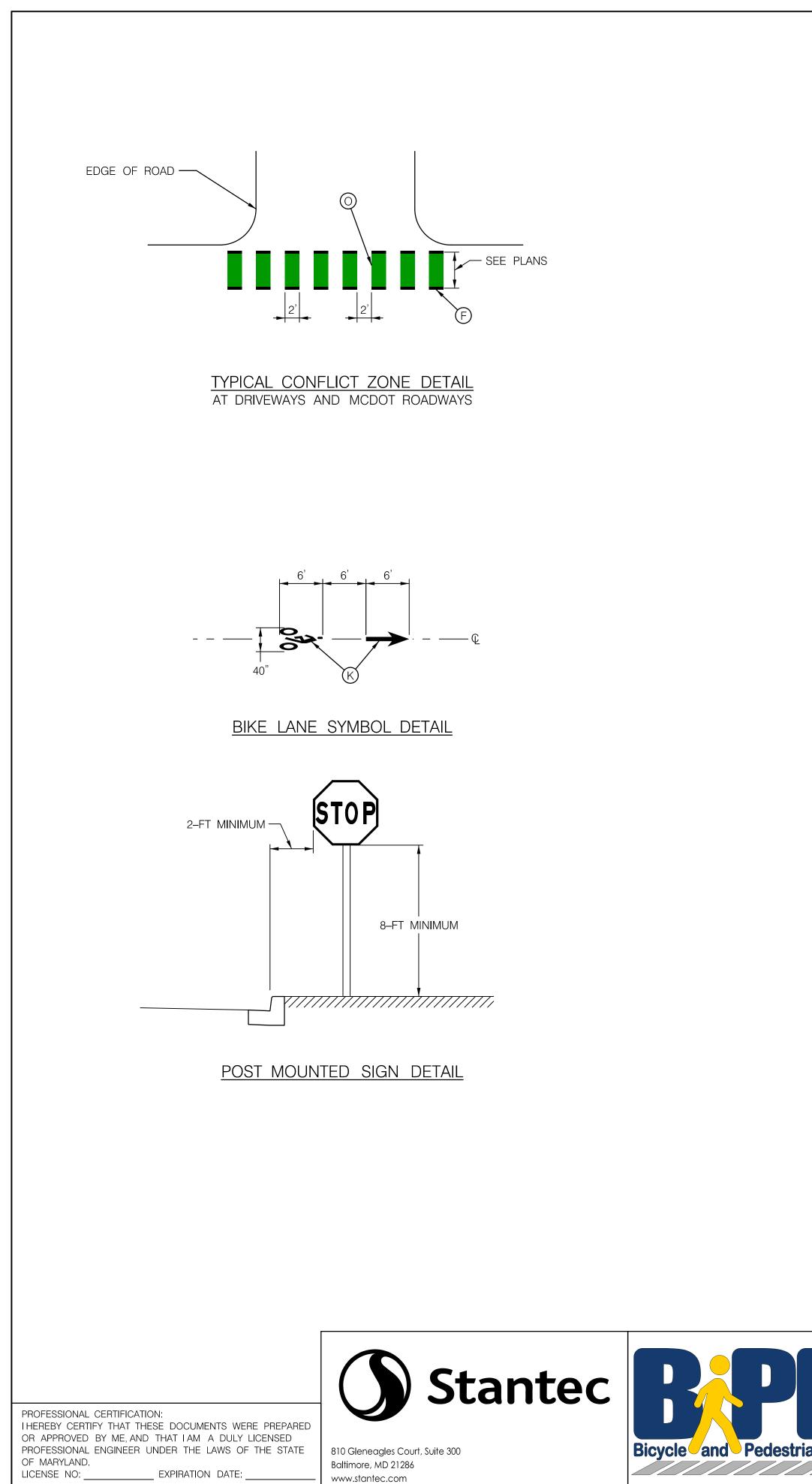
7.22 TREE ROOT PRUNING SHALL BE PERFORMED ALONG THE LINE SHOWN ON THE PLANS IN CONFORMANCE WITH SECTION 715. TREE ROOT PRUNING SHALL BE COMPLETED BEFORE BEGINNING EXCAVATION OR OTHER CONSTRUCTION ADJACENT TO TREES TO BE PRESERVED.

7.23 FINISHED MATERIALS. THE SUITABLILITY, COLOR AND TEXTURE OF APPLICANT TO INSERT NAME OF MATERIALS WITH REFERENCES TO PAGES OF THE PLAN WHICH SPECIFY THESE MATERIALS TO BE INSTALLED SHALL BE APPROVED BEFORE INSTALLATION. THE CONTRACTOR SHALL FURNISH SAMPLE OR MAKE ARRANGEMENTS FOR INSPECTION AND APPROVAL AT THE PROJECT SITE.

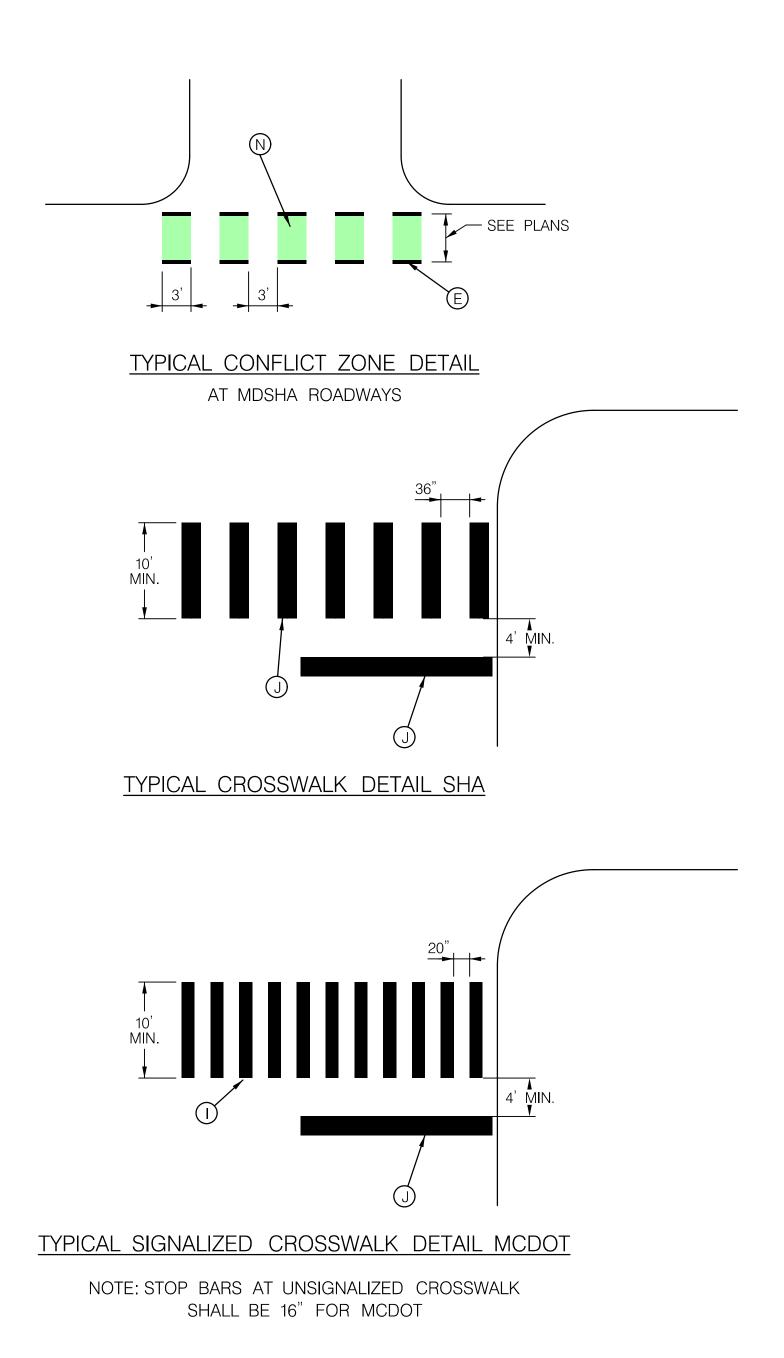
Category Code	Unit	Description/Location	LOCATION	QUANTITY				
701214	SY	PLACING FURNISHED SUBSOIL 18" DEPTH	TREE PIT	95				
704365	SY	PLACING FURNISHED TOPSOIL 6" DEPTH	TREE PIT	103				
710170	SY	CONSTRUCT PLANTING BEDS	TREE PIT	95				
715015	SY	SHREDDED HARDWOOD BARK MULCHING 3" DEPTH	TREE PIT	103				
700000	LF	TEMPORARY CHAIN LINK FENCE (TREE PROTECTION)	AS SHOWN	104				
	700000   LF  TEMPORARY CHAIN LINK FENCE (TREE PROTECTION) AS SHOWN   NOTE: SHREDDED HARDWOOD BARK MULCH IS INCIDENTAL TO CONSTRUCT PLANTING BEDS							

TREE, SHRUB, AND P	REE, SHRUB, AND PERENNIAL INSTALLATION AND ESTABLISHMENT - MASTER PLANT LIST										
SYM	QUANTITY	BOTANICAL NAME	COMMON NAME	SIZE	BALL	REMARKS					
LSW	5	Liquidambar styraciflua 'Ward'	Ward Sweetgum	2.5 IN. CAL.	B&B	CENTRAL LEADER					
QPA	7	Quercus phellos 'Abundance'	Abundance Willow Oak	2.5 IN. CAL.	B&B	CENTRAL LEADER					
SR	3	Syringa reticulata	Lilac Tree	2.5 IN. CAL.	B&B						
TCG	6	Tilia cordata 'Greenspire'	Greenspire Littleleaf Linden	2.5 IN. CAL.	B&B	CENTRAL LEADER					
ICST	10	llex crenata 'Soft Touch'	Soft Touch dwarf holly	24" HT.	3 gallon	30" ON CENTER					

	NO.	REVISION	BY	APP'D	DATE	DESIGNED BY: KRD	DATE: NOVEMBER, 2023	3	DEPARTMENT OF TRANS	ϽΟΡͲΛͲΙΟΝ			
						DRAWN BY: MK	DATE: NOVEMBER, 2023	3					
						CHECKED BY: CC	DATE: NOVEMBER, 2023	3	DIVISION OF TRANSPORTATION ENGINEERIN				
						DRAWING NO.:	DATE:		MONTGOMERY COUNTY, I	MARYLAND			
						RECOMMENDED FOR APPROVA Chief, Design Section APPROVED	AL 	te	FLOWER AVEN Separated bike Landscape pl	LANES			
ority Areas						Chief, Division of Transportation E	ngineering		NOTES AND DETA				

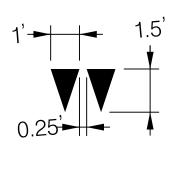






	NO.	REVISION	BY	APP'D	DATE	DESIGNED BY: JRGB	DATE: NOVEMBER,	2023		
						DRAWN BY: JRGB	DATE: NOVEMBER,	2023		
						CHECKED BY: RJM	DATE: NOVEMBER,	2023		
						DRAWING NO.:	DATE:			
Priority Aroas						RECOMMENDED FOR APPROVAL Chief, Design Section APPROVED		Date		
an Priority Areas						Chief, Division of Transportation Engin	eering	Date		

PAVEMENT MARKING LEGEND
$\bigcirc$ INSTALL 5 INCH YELLOW LEAD FREE THERMOPLASTIC PAVEMENT MARKING (DOUBLE)
B INSTALL 5 INCH WHITE LEAD FREE THERMOPLASTIC PAVEMENT MARKING (SOLID)
C INSTALL 5 INCH YELLOW LEAD FREE THERMOPLASTIC PAVEMENT MARKING (SOLID)
$\bigcirc$ INSTALL 5 INCH WHITE LEAD FREE THERMOPLASTIC PAVEMENT MARKING (3–9–3 DOTTED)
E INSTALL 5 INCH WHITE LEAD FREE THERMOPLASTIC PAVEMENT MARKING (3–3–3 DOTTED)
$\bigcirc$ INSTALL 5 INCH WHITE LEAD FREE THERMOPLASTIC PAVEMENT MARKING (2–2–2 DOTTED)
G INSTALL 5 INCH WHITE LEAD FREE THERMOPLASTIC PAVEMENT MARKING (10–30–10 BROKEN)
(H) INSTALL 12 INCH WHITE LEAD FREE THERMOPLASTIC PAVEMENT MARKING
INSTALL 16 INCH WHITE LEAD FREE THERMOPLASTIC PAVEMENT MARKING
(J) INSTALL 24 INCH WHITE LEAD FREE THERMOPLASTIC PAVEMENT MARKING
$\bigotimes$ INSTALL THERMOPLASTIC BIKE SYMBOL WITH AN ARROW PAVEMENT MARKING
INSTALL THERMOPLASTIC SHARROW PAVEMENT MARKING
$\bigodot$ Install white preformed thermoplastic pavement marking legends and symbols
N INSTALL GREEN PAVEMENT MARKING; PRE-FORMED THEMOPLASTIC (HIGH TRAFFIC VOLUME AREAS)
O INSTALL GREEN PAVEMENT MARKING; EPOXY (LOW TRAFFIC VOLUME AREAS)
P REMOVE PAVEMENT MARKING



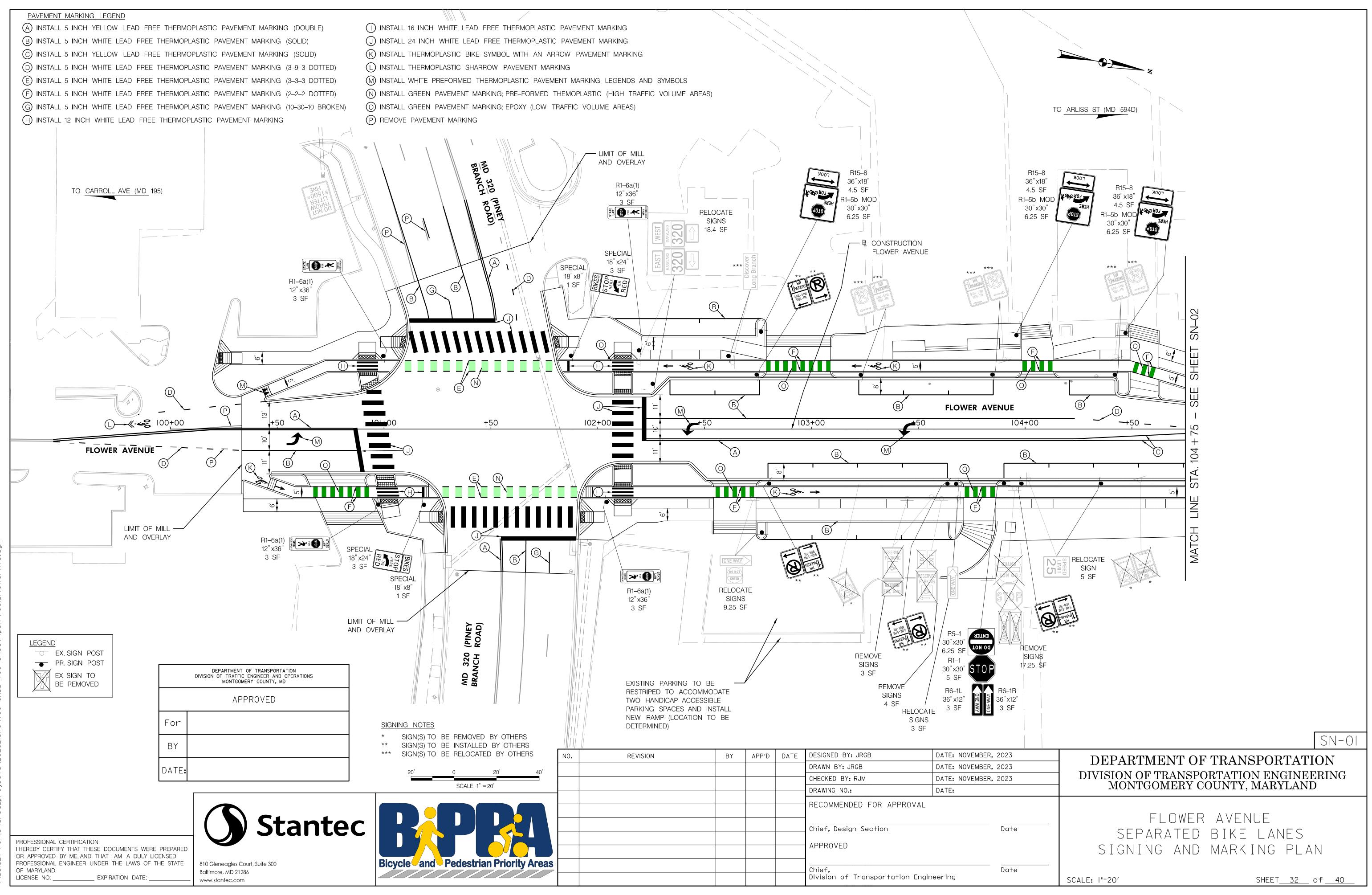


YIELD MARKING DETAIL

	DEPARTMENT OF TRANSPORTATION DIVISION OF TRAFFIC ENGINEER AND OPERATIONS MONTGOMERY COUNTY, MD
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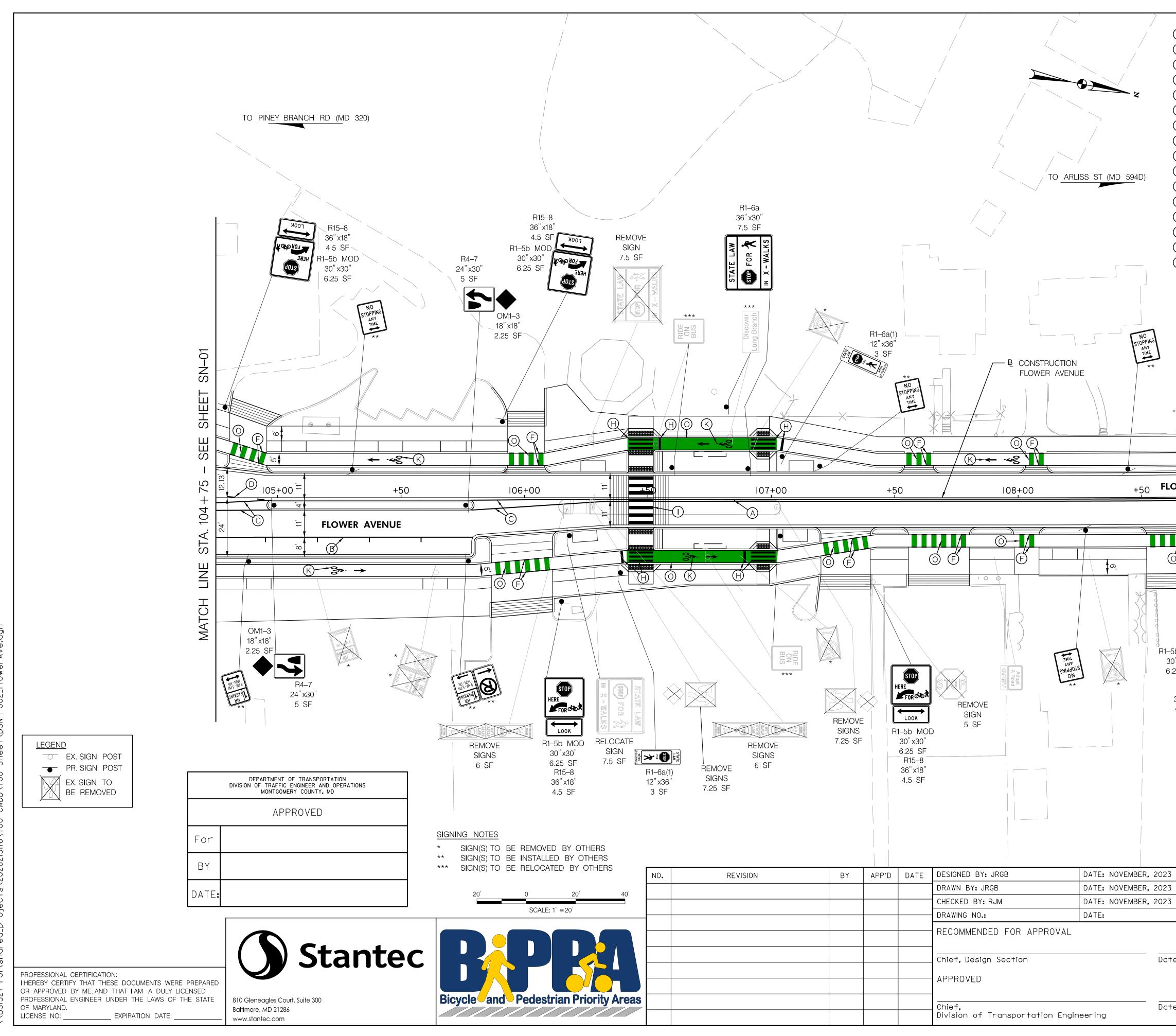
SND-01

#### DEPARTMENT OF TRANSPORTATION DIVISION OF TRANSPORTATION ENGINEERING MONTGOMERY COUNTY, MARYLAND FLOWER AVENUE SEPARATED BIKE LANES е SIGNING AND MARKING DETAILS te SHEET<u>31</u> of <u>40</u> SCALE: NONE



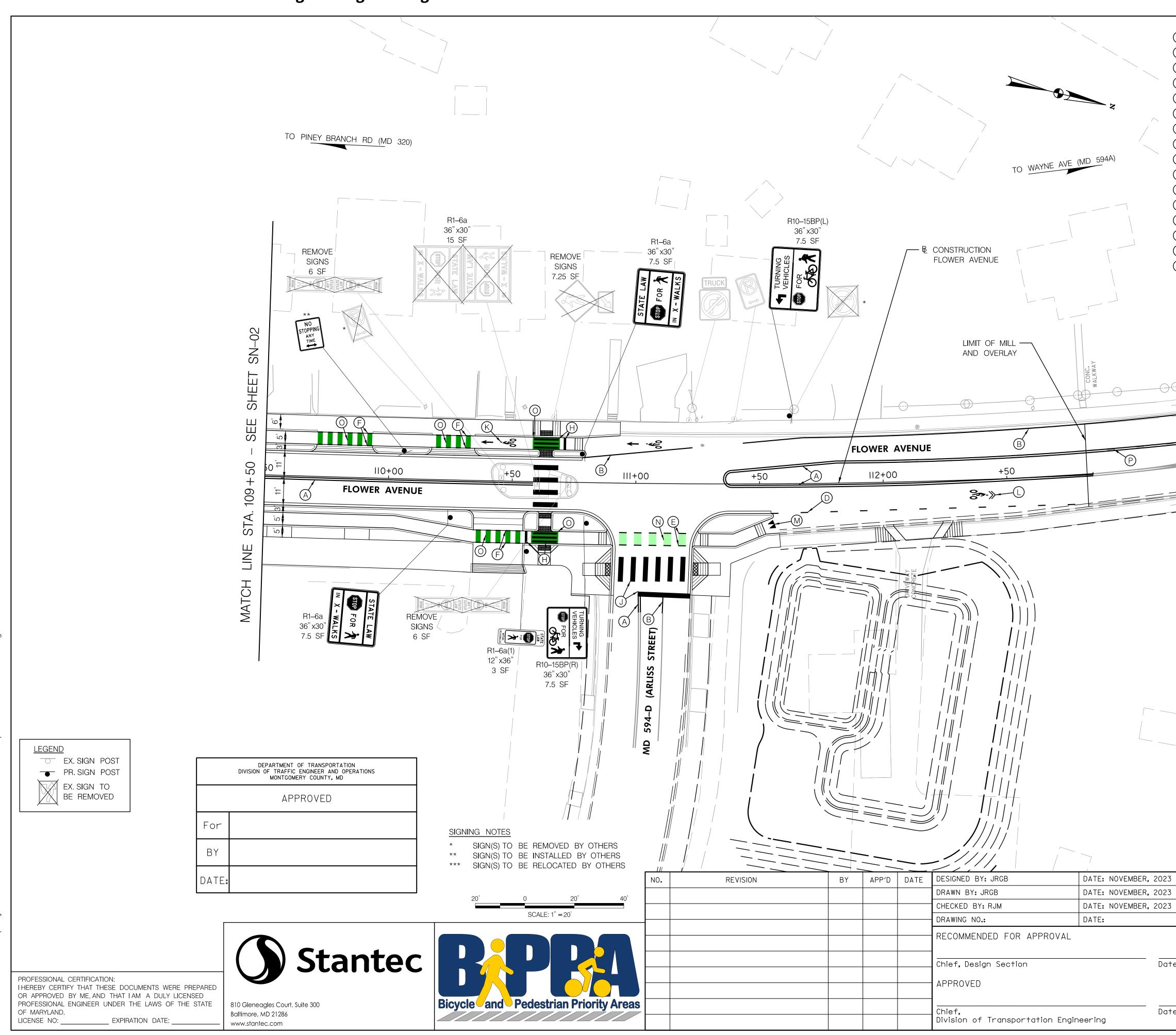
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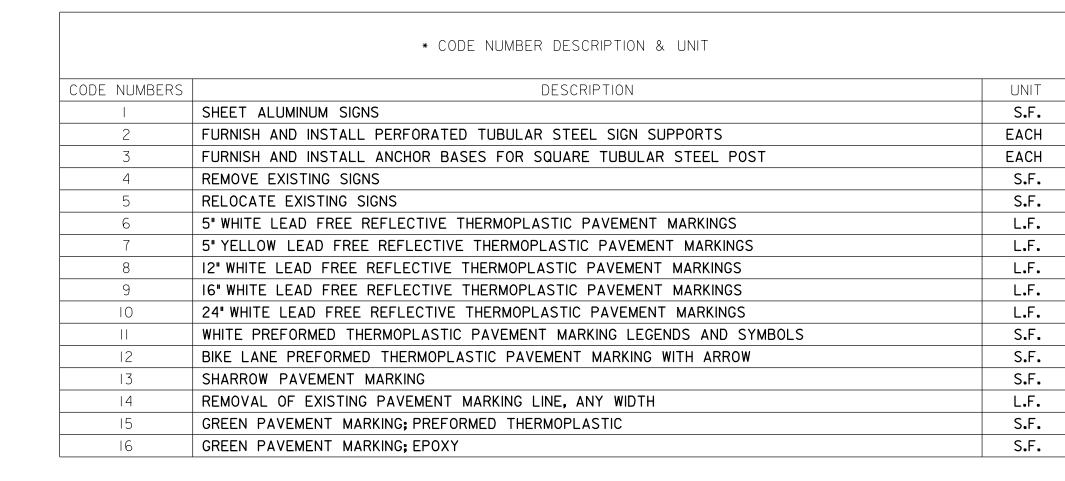
PAVEMENT MAR	KING LEGEND
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G INSTALL 5 IN	CH WHITE LEAD FREE THERMOPLASTIC PAVEMENT MARKING (10–30–10 BROKEN)
(H) INSTALL 12 IN	NCH WHITE LEAD FREE THERMOPLASTIC PAVEMENT MARKING
() INSTALL 16 IN	NCH WHITE LEAD FREE THERMOPLASTIC PAVEMENT MARKING
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0	RMOPLASTIC SHARROW PAVEMENT MARKING
(M) INSTALL WHIT	TE PREFORMED THERMOPLASTIC PAVEMENT MARKING LEGENDS AND SYMBOLS
(N) INSTALL GRE	EN PAVEMENT MARKING; PRE-FORMED THEMOPLASTIC (HIGH TRAFFIC VOLUME AREAS)
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	FLOWER AVENUE
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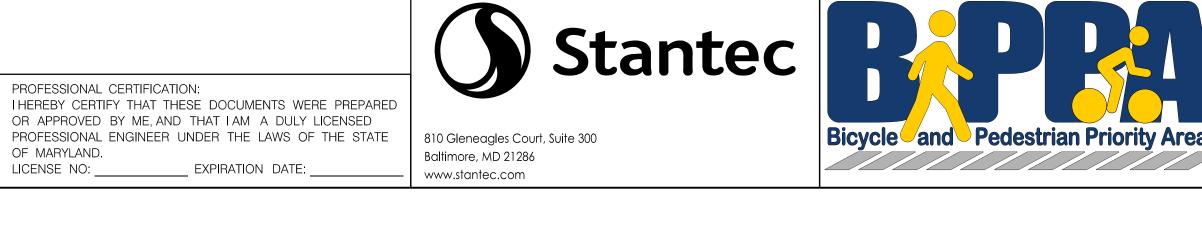


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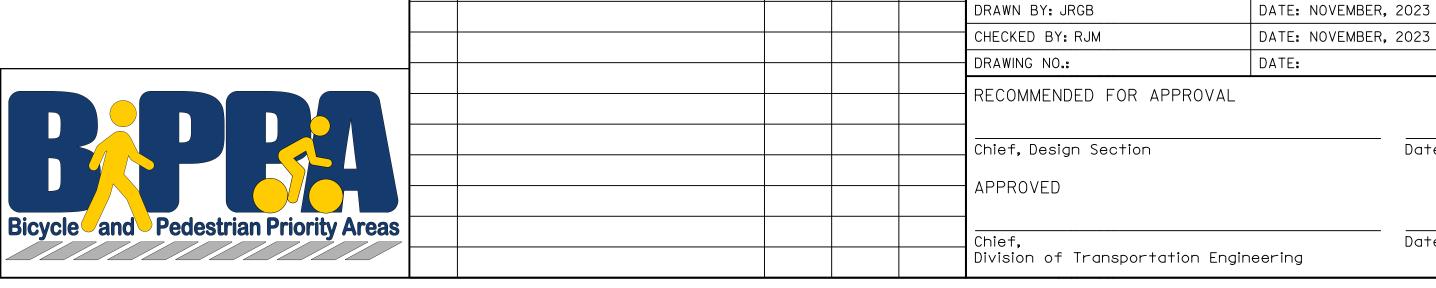
<ul> <li>(A) INSTALL 5</li> <li>(B) INSTALL 5</li> <li>(C) INSTALL 5</li> <li>(D) INSTALL 5</li> <li>(E) INSTALL 5</li> <li>(G) INSTALL 5</li> <li>(G) INSTALL 5</li> <li>(G) INSTALL 5</li> <li>(G) INSTALL 1</li> <li>(I) INSTALL 5</li> <li>(I) INSTALL 5</li> <li>(I) INSTALL 6</li> <li>(I) INSTALL 6</li> <li>(I) INSTALL 6</li> </ul>	MARKING LEGEND MARKING LEGEND ARKING LEGEND ARKING LEGEND ARKING LEGEND ARKING LEGEND ARKING LEAD FREE THERMOPLASTIC ARKING WHITE LEAD FREE THERMOPLASTIC ARKING WHITE LEAD FREE THERMOPLASTIC ARKING WHITE LEAD FREE THERMOPLASTIC ARKING FREEN PAVEMENT MARKING; PRE-FORMED THE ARKING FREEN PAVEMENT MARKING; EPOXY (LOW TRAPAVEMENT MARKING) ARKING	AVEMENT MARKING (SOLID) PAVEMENT MARKING (SOLID) AVEMENT MARKING (3–9–3 DOTTED) AVEMENT MARKING (3–3–3 DOTTED) AVEMENT MARKING (2–2–2 DOTTED) AVEMENT MARKING (10–30–10 BROKEN) PAVEMENT MARKING PAVEMENT MARKING PAVEMENT MARKING DW PAVEMENT MARKING NG JT MARKING LEGENDS AND SYMBOLS EMOPLASTIC (HIGH TRAFFIC VOLUME AREAS)
		/ / / / / / / SN-03
	DIVISION OF TRANSPO	TRANSPORTATION RTATION ENGINEERING DUNTY, MARYLAND
e	SEPARATED	AVENUE BIKE LANES MARKING PLAN
e	SCALE: I"=20'	SHEET <u>34</u> of <u>40</u>

SIGN		CODE NUMBERS *																		
NO.	REMARKS	I	2	3	4	5	6	7	8	9	10		12	13	4	15	16	17	18	19
SN-01	(I) R5-I, (I) RI-I, (I) R6-IL, (I) R6-IR, (4) RI-6a(I), (3) RI5-8, (3) RI-6bMOD, (6) SPECIAL	75.5	16	16	23.3	35.7	1098	1055	132	0	563	51	19	10	436	345	437			
SN-02	(2) RI-6a(I), (5) RI5-8, (5) RI-6bMOD, (2) R4-7, (2) OMI-3, (I) RI-6a	81.8			44.0	7.5	878	1050	142	77	-	-	58	-	-	-	842			
SN-03	(2) RI-6a, (I) RIO-I5BP(R), (I) RIO-I5BP(L), (I) RI-6a(I)	33.0	5	5	34.3	-	220	901	71	0	122	4	39	10	262	75	404			
	TOTAL	190.3	32	32	101.5	43.2	2195	3006	380	77	697	55	116	20	698	420	1683		1	





	DEPARTMENT OF TRANSPORTATION DIVISION OF TRAFFIC ENGINEER AND OPERATIONS MONTGOMERY COUNTY, MD
	APPROVED
For	
ΒY	
DATE:	



REVISION

NO.

ΒY

APP'D | DATE | DESIGNED BY: JRGB

SN-04

# DEPARTMENT OF TRANSPORTATION DIVISION OF TRANSPORTATION ENGINEERING MONTGOMERY COUNTY, MARYLAND FLOWER AVENUE SEPARATED BIKE LANES SIGNING AND MARKING SCHEDULE

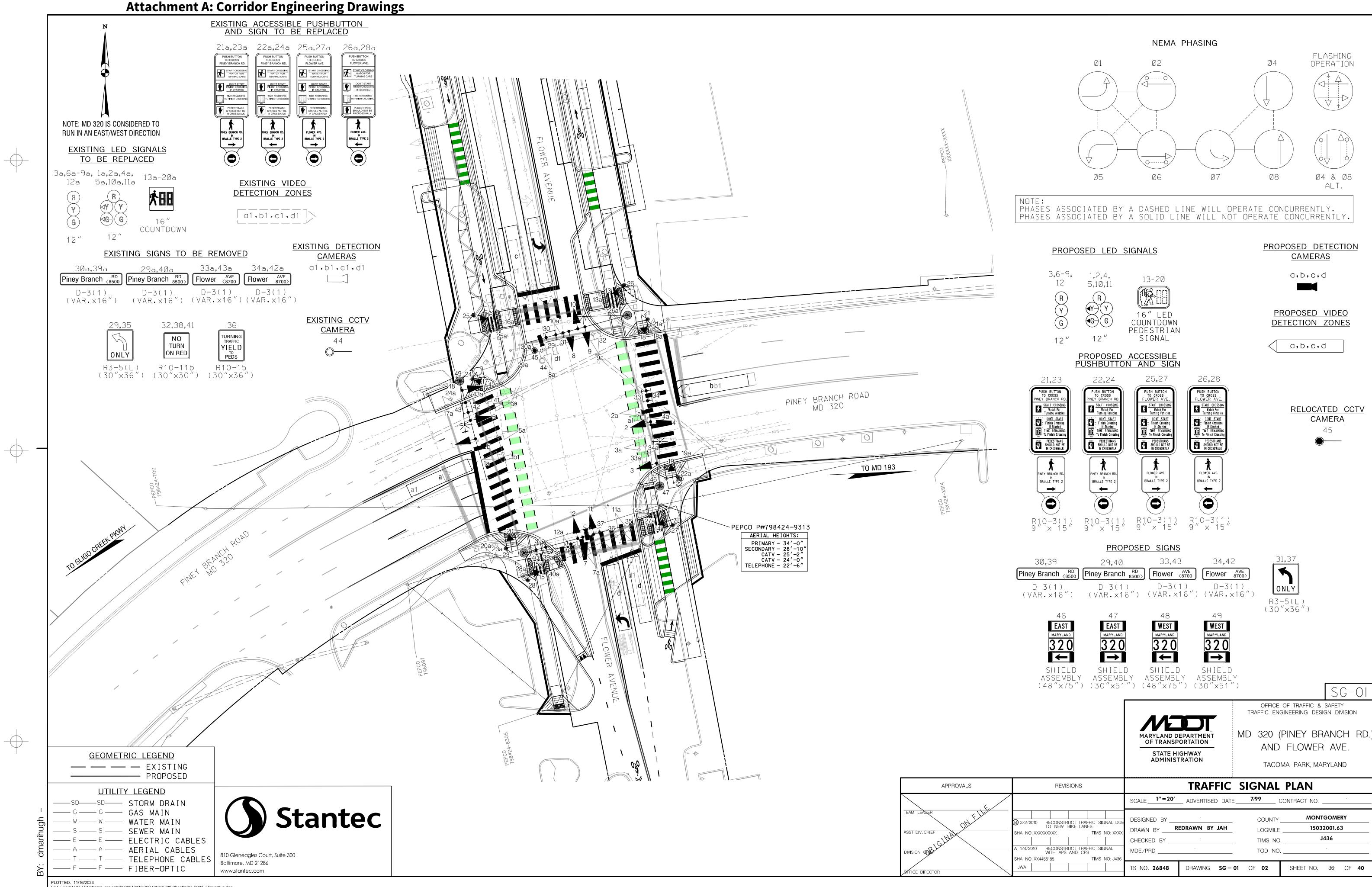
SCALE: NONE

DATE: NOVEMBER, 2023

Date

Date

SHEET<u> 35 </u>of<u> 40 </u>



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#### PROJECT DESCRIPTION

I. GENERAL THIS PROJECT INVOLVES THE RECONSTRUCTION OF AN EXISTING TRAFFIC CONTROL SIGNAL WITH INTERCONNECT, STREET LIGHTING AND A TRAFFIC SURVEILLANCE CAMERA AT THE INTERSECTION OF MD 320 (PINEY BRANCH RD) AND FLOWER AVE IN MONTGOMERY COUNTY. A NEW MAST ARM TRAFFIC SIGNAL WITH INTERCONNECT, STREET LIGHTING, TRAFFIC SURVEILLANCE CAMERA AND COUNTDOWN PEDESTRIAN SIGNALS WITH AUDIBLE PUSHBUTTONS SHALL BE INSTALLED AT THIS LOCATION. MD 320 (PINEY BRANCH RD) IS ASSUMED TO RUN IN AN EAST-WEST DIRECTION. **II. INTERSECTION OPERATION** 1. THE INTERSECTION SHALL CONTINUE TO OPERATE IN A NEMA SIX-PHASE, SEMI-ACTUATED MODE, WITH THE MD 320 (PINEY BRANCH RD) APPROACHES RUNNING CONCURRENTLY. THE EXCLUSIVE/PERMISSIVE LEFT TURN PHASES FOR BOTH APPROACHES OF MD 320 (PINEY BRANCH RD) SHALL REMAIN IN OPERATION. THE PEDESTRIAN PHASES ACROSS MD 320 (PINEY BRANCH RD) SHALL NOW BE COUNTDOWN PEDESTRIAN PHASES WITH AUDIBLE PUSHBUTTON ACTUATION. THE PEDESTRIAN PHASES ACROSS FLOWER AVE SHALL NOW BE COUNTDOWN PEDESTRIAN PHASES WITH AUDIBLE PUSHBUTTONS ON RECALL. THE FLOWER AVE APPROACHES SHALL ALSO CONTINUE TO RUN CONCURRENTLY. 2. A FULL-TRAFFIC-ACTUATED, EIGHT-PHASE CONTROLLER WITH VIDEO INTERFACE AND ALL NECESSARY EQUIPMENT HOUSED IN A NEMA SIZE "6" BASE-MOUNTED CABINET SHALL BE INSTALLED AT THIS INTERSECTION. 3. MONTGOMERY COUNTY SIGNAL SHOP SHALL INSTALL APS CONTROL UNIT INTO CONTROLLER CABINET. THE CONTRACTOR SHALL DELIVER THE CONTROL UNIT AND AUDIBLE PUSHBUTTONS TO MR. KEITH LORD OF THE MONTGOMERY COUNTY SIGNAL SHOP FOR TESTING AND PROGRAMMING.

#### III. SPECIAL NOTES

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- 1. THE CONTRACTOR SHALL BE RESPONSIBLE FOR TERMINATING ALL SIGNAL CABLES, EXCLUDING INTERCONNECT, TO THE APPROPRIATE TERMINALS AND SHALL PROPERLY LABEL EACH CABLE.
- 2. DISCONNECTING AND SPLICING OF INTERCONNECT CABLE SHALL BE PERFORMED BY MONTGOMERY COUNTY FORCES. THE CONTRACTOR SHALL RUN THE INTERCONNECT CABLE INTO THE BASE OF EACH CABINET AND PROPERLY TAG THE CABLE. ALL CONTROLLER CABINET WIRING WILL BE PERFORMED BY MONTGOMERY COUNTY FORCES. CONTACT KAMAI HAMUD AT (240) 777-8761 SEVENTY-TWO HOURS IN ADVANCE OF INTENDED WORK.
- 3. ALL UNDERGROUND AND OVERHEAD UTILITIES SHOWN ON THESE PLANS ORE 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.
- 4. CONTACT MR. MIKE KINNEY AT (240) 777-8760 SEVENTY-TWO HOURS IN ADVANCE OF INTENDED WORK FOR WIRING RELOCATING OF TRAFFIC SURVEILLANCE CAMERA EQUIPMENT INCLUDING POLE MOUNT CAMERA CABINET.
- 5. APS WILL FUNCTION AS FOLLOWS:
- TO CROSS PINEY BRANCH ROAD
  - A. WHEN PEDESTRIAN LOCATES AND PRESSES THE PUSHBUTTON FOR AN EXTENDED TIME, THE PUSHBUTTON UNIT WILL ANNOUNCE THE FOLLOWING MESSAGE "WAIT TO CROSS PINEY BRANCH
  - AT FLOWER, CROSSWALK ANGLES LEFT.' B. WHEN THE WALK PHASE BEGINS, THE PUSHBUTTON UNIT WILL PROVIDE A RAPID TICK WHICH WILL LAST FOR THE DURATION OF THE WALK PHASE.

TO CROSS FLOWER AVENUE

- A. WHEN PEDESTRIAN LOCATES AND PRESSES THE PUSHBUTTON FOR AN EXTENDED TIME, THE PUSHBUTTON UNIT WILL ANNOUNCE THE FOLLOWING MESSAGE "WAIT TO CROSS FLOWER
- AT PINEY BRANCH. B. WHEN THE WALK PHASE BEGINS, THE PUSHBUTTON UNIT WILL PROVIDE A RAPID TICK WHICH WILL LAST FOR THE DURATION OF THE WALK PHASE.

#### CONTACT PERSONS

THE CONTACT PERSONS FOR THIS PROJECT ARE AS FOLLOWS:

<u>DISTRICT 3</u>

MR. JOSEPH MOGES ASSISTANT DISTRICT ENGINEER - TRAFFIC 301-513-7498

MR. MARK LOEFFLER DISTRICT ENGINEER - UTILITIES 301-513-7350

MR. JOHN GOVER ASSISTANT DISTRICT ENGINEER - CONSTRUCTION 301-513-7336

MR. GREGORY EDWARDS ASSISTANT DISTRICT ENGINEER - MAINTENANCE 301-513-7304

MONTGOMERY COUNTY

MR. KAMAL HAMUD MONTGOMERY COUNTY-TRAFFIC ENGINEERING PHONE NUMBER 240-777-8761

810 Gleneagles Court, Suite 300 Baltimore, MD 21286 www.stantec.com

OOTS CONTACTS:

MS. REBECCA LICHTENSTEIN, P.E. CHIEF TRAFFIC OPERATION DIVISION PHONE: (410)-787-7630

MR. ANTOINE YATES ASSISTANT DIVISION CHIEF, TRAFFIC OPERATIONS DIVISION PHONE: (410)-787-7625

MR. MIKE BASSO CHIEF, SIGNAL OPERATIONS PHONE: (410)-787-7652

MR. MICHAEL BOYLE CHIEF, WAREHOUSE SECTION PHONE: (410)-787-7668

MR. DAVID "TODD" JONES SIGN SHOP MANAGER 410-787-7676

<u> PEPCO</u> MR. PAUL WILSON PHONE 202-833-7500

#### EQUIPMENT LIST

A. EQUIPMENT TO BE FURNISHED BY STATE HIGHWAY ADMINISTRATION:

ITEM NO./ CAT CODE	QUANTITY	DESCRIPTION

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

ITEM NO./ CAT CODE	QUANTITY	DESCRIPTION

C. EQUIPMENT TO BE REMOVED AND RETURNED TO SHA:

MONTGOMERY COUNTY FORCES SHALL REMOVE THE CONTROLLER AND ALL AUXILIARY EQUIPMENT FROM THE CONTROLLER CABINET. THE CABINET AND ALL OTHER REMOVED SIGNAL MATERIALS ARE TO BECOME PROPERTY OF THE CONTRACTOR.

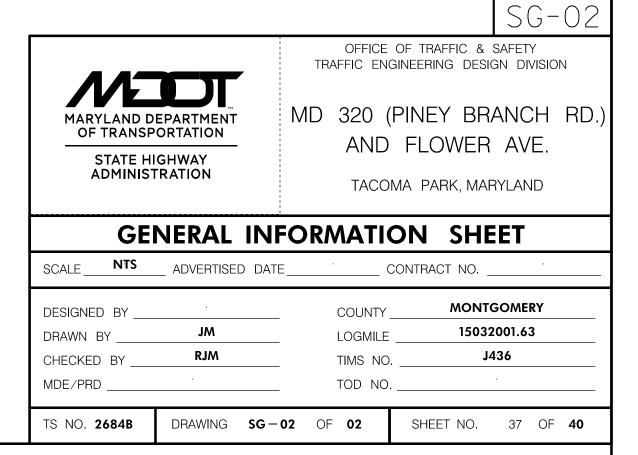
#### MAINTENANCE OF TRAFFIC NOTE

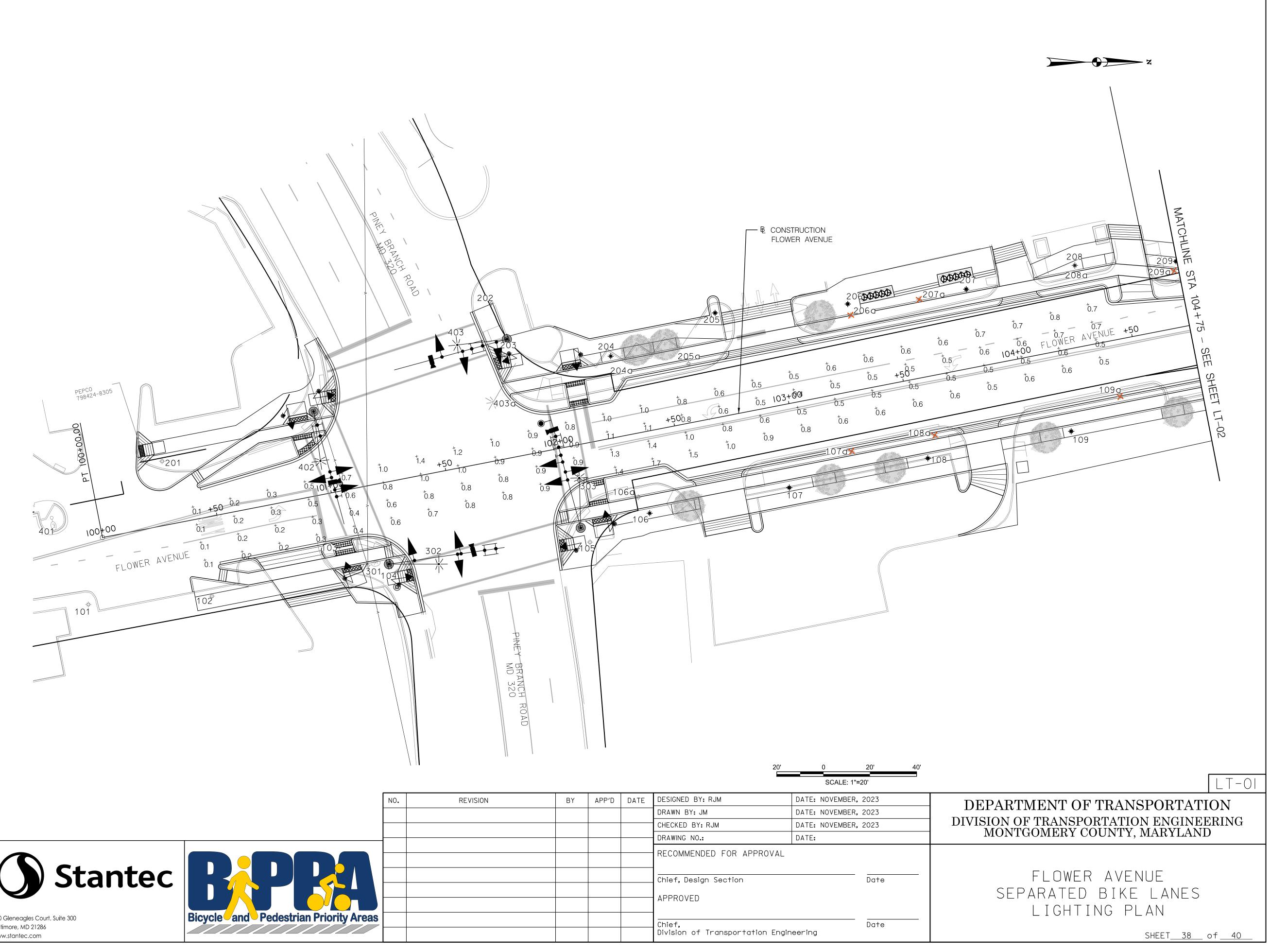
MAINTENANCE OF TRAFFIC WILL BE HANDLED BY THE CONTRACTOR UTILIZING THE FOLLOWING STANDARD PLATES FOR TRAFFIC CONTROL:

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.

							<u>PH</u>	ASE	CHA	<u> </u>										
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
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PHASE 1 AND 5	<b>←</b> G⁄R	<b>←</b> G⁄R	R	<b>←</b> G⁄R	<b>←</b> G⁄R	R	R	R	R	R	R	R	DW	DW						
CHANGE TO PHASES 1 AND 6	5,2 AN	D 5, C	)R 2	and e	ò							•								
PHASE 1 AND 6	<b>←</b> G⁄G	<b>←</b> G⁄G	G	R	R	R	R	R	R	R	R	R	DW	W⁄K	W⁄K	DW	DW	DW	DW	DW
1 AND 6 CHANGE	<b>←</b> Y⁄G	<b>←</b> Y⁄G	G	R	R	R	R	R	R	R	R	R	DW	W⁄K	W⁄K	DW	DW	DW	DW	DW
PHASE 2 AND 5	R	R	R	←G⁄G	<b>←</b> G⁄G	G	R	R	R	R	R	R	W⁄K	DW	DW	W⁄K	DW	DW	DW	DW
2 AND 5 CHANGE	R	R	R	<b>←</b> Y/G	<b>←</b> Y⁄G	G	R	R	R	R	R	R	W⁄K	DW	DW	W⁄K	DW	DW	DW	DW
PHASE 2 AND 6	G	G	G	G	G	G	R	R	R	R	R	R	W/K	W⁄K	W⁄K	W⁄K	D/W	D/W	D/W	D/W
PED CLEARANCE	G	G	G	G	G	G	R	R	R	R	R	R	FL/DW	FL⁄DW	FL⁄DW	FL⁄DW	DW	DW	DW	DW
2 AND 6 CHANGE	Y	Y	Y	Y	Y	Y	R	R	R	R	R	R	DW	DW						
PHASE 4 AND 7	R	R	R	R	R	R	R	R	R	<b>←</b> G⁄G	<b>←</b> G⁄G	G	DW	DW	DW	DW	W⁄K	DW	DW	W⁄K
4 AND 7 CHANGE	R	R	R	R	R	R	R	R	R	<b>←</b> Y⁄G	<b>←</b> Y⁄G	G	DW	DW	DW	DW	W⁄K	DW	DW	W⁄K
PHASE 4 AND 8	R	R	R	R	R	R	G	G	G	G	G	G	DW	DW						
4 AND 8 CHANGE	R	R	R	R	R	R	Y	Y	Y	Y	Y	Y	DW	DW						
PHASE 4 AND 8 ALT	R	R	R	R	R	R	G	G	G	G	G	G	DW	DW	DW	DW	W⁄K	W⁄K	W⁄K	W⁄K
PED CLEARANCE	R	R	R	R	R	R	G	G	G	G	G	G	DW	DW	DW	DW	FL⁄DW	FL⁄DW	′FL⁄DW	FL⁄DW
4 AND 8 ALT CHANGE	R	R	R	R	R	R	Y	Y	Y	Y	Y	Y	DW	DW						
FLASHING OPERATION	FL/Y	FL/Y	FL/Y	FL/Y	FL/Y	FL/Y	FL/R	FL/R	FL/R	FL/R	FL/R	FL/R	DARK	DARK						

WIRING DIAGRAM NOT TO SCALE





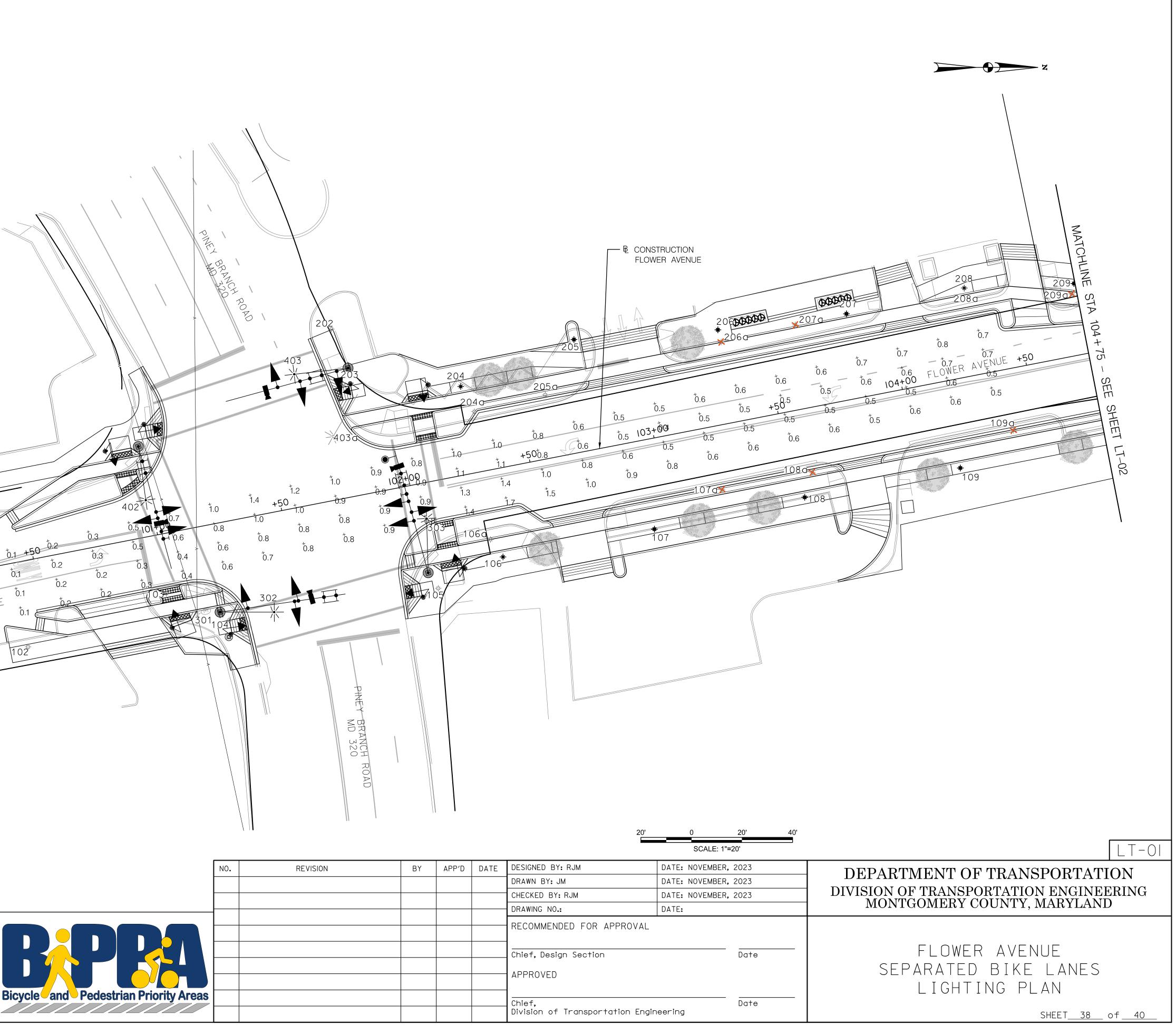
#### LEGEND

+0.0	EXISTING NIGHTTIME LIGHT LEVEL
✷	EXISTING STREETLIGHT TO BE REPLACED
-☆-	EXISTING STREETLIGHT TO REMAIN
*	PROPOSED STREETLIGHT
0-(17)	EXISTING LUMINAIRE TO REMAIN
	EXISTING LUMINAIRE TO BE REMOVED
⊶●	PROPOSED 100W LED LUMINAIRE
	EXISTING MAST-ARM MOUNTED LIGHT
	PROPOSED MAST-ARM MOUNTED LIGHT

EXPIRATION DATE:

PROFESSIONAL CERTIFICATION: I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE 810 Gleneagles Court, Suite 300

Baltimore, MD 21286 www.stantec.com



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OF MARYLAND.

LICENSE NO:



LEGEND

<sup>+</sup>0.0 EXISTING NIGHTTIME LIGHT LEVEL

-- EXISTING LUMINAIRE TO REMAIN

←● PROPOSED 100W LED LUMINAIRE

EXISTING MAST-ARM MOUNTED LIGHT

↔ EXISTING LUMINAIRE TO BE REMOVED

EXISTING STREETLIGHT TO BE REPLACED

PROFESSIONAL CERTIFICATION:	
I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED	
OR APPROVED BY ME, AND THAT I AM A DULY LICENSED	
PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE	810 Gleneagles Cour
OF MARYLAND.	Baltimore, MD 21286
LICENSE NO: EXPIRATION DATE:	www.stantec.com

810 Gleneagles Court, Suite 300 Baltimore, MD 21286

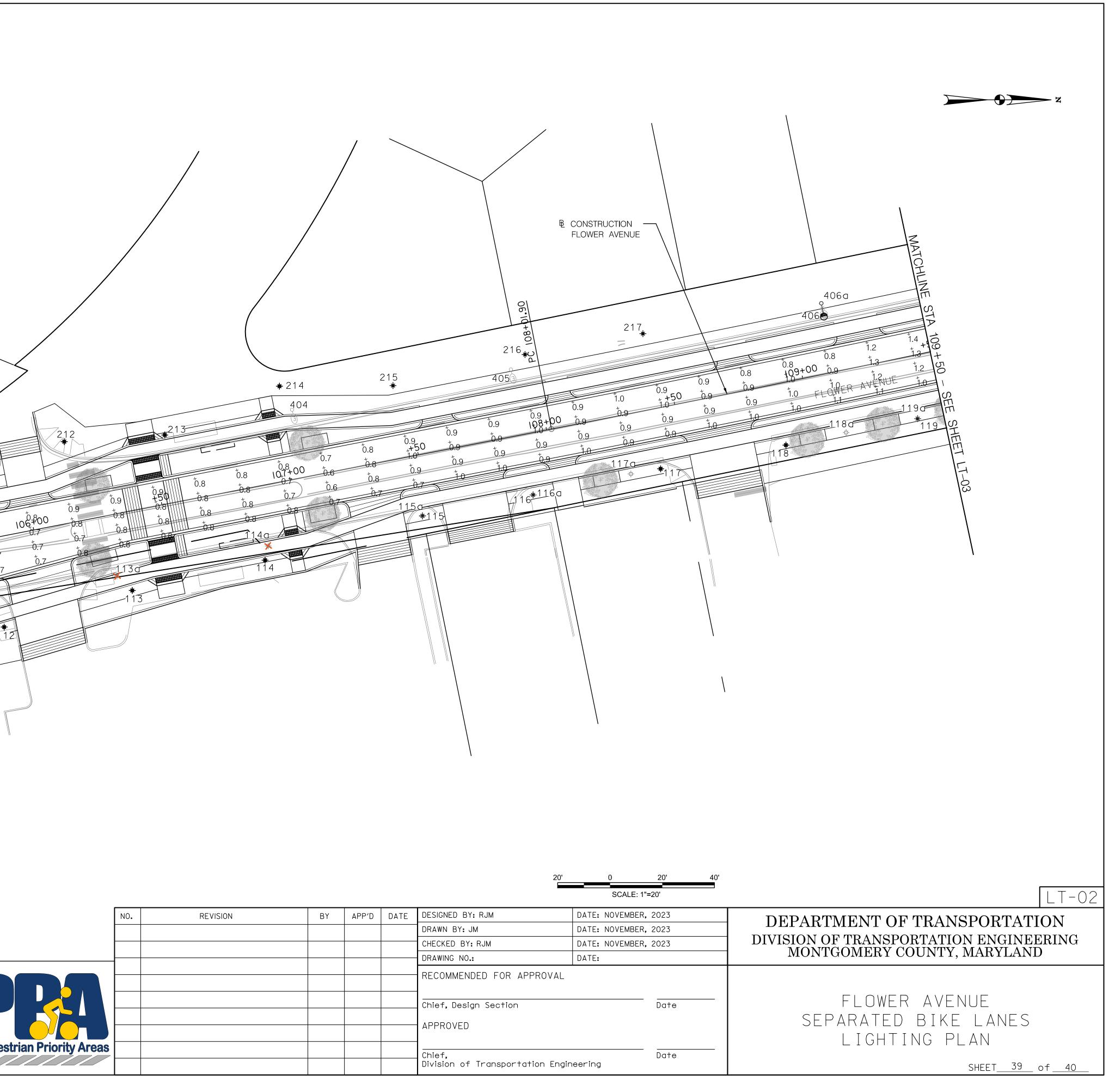
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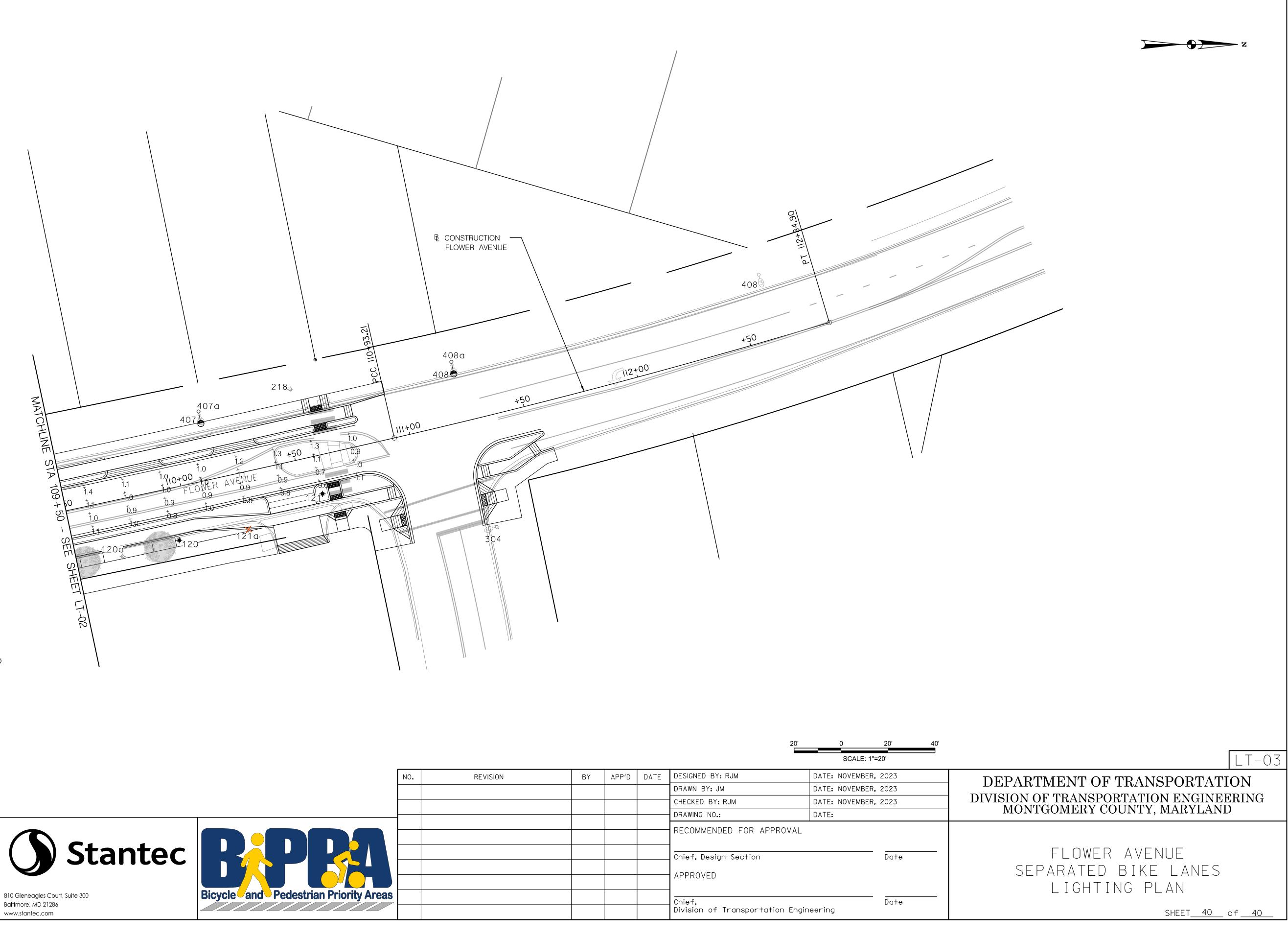
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								SCALE: 1	1"=20'
	NO.	REVISION	BY	APP'D	DATE	DESIGNED BY: RJM		DATE: NOVEMBER	R, 2023
						DRAWN BY: JM		DATE: NOVEMBER	R, 2023
						CHECKED BY: RJM		DATE: NOVEMBER	R, 2023
						DRAWING NO.:		DATE:	
						RECOMMENDED FOR AF	PROVAL		
rian Priority Areas						Chief, Design Section APPROVED			Date
A lan Friority Areas						Chief, Division of Transporta	tion Engir	neering	Date





#### LEGEND

+0.0	EXISTING NIGHTTIME LIGHT LEVEL
✷	EXISTING STREETLIGHT TO BE REPLACED
	EXISTING STREETLIGHT TO REMAIN
*	PROPOSED STREETLIGHT
0-(17)	EXISTING LUMINAIRE TO REMAIN
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NO.	REVISION	ΒY	APP'D	DATE	DESIGNED BY: RJM	DATE: NOVEMBER,	2023
					DRAWN BY: JM	DATE: NOVEMBER,	2023
					CHECKED BY: RJM	DATE: NOVEMBER,	2023
					DRAWING NO.:	DATE:	
					RECOMMENDED FOR APPROVAL		
					Chief, Design Section		Date
					APPROVED		
eas					Chief, Division of Transportation Engi	neering	Date