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MONTGOMERY COUNTY DEPARTMENT OF TRANSPORTATION AMHERST AVENUE CYCLE TRACK

FROM WINDHAM LANE TO ARCOLA AVENUE

CIP PROJECT NO. 502002 90% SUBMITTAL, OCTOBER 2023

SHA TRACKING NO.: 19APM0015XX

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 "2011 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 PUBLIC WORKS AND TRANSPORTATION "STORM DRAIN DESIGN CRITERIA" DATED AUGUST 1988.

DATE: _____
STEVEN J. ZEENDER, P.E.
MD. REGISTRATION NO. 31369

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 833 CUBIC YARDS OF EXCAVATION, 373 CUBIC YARDS OF FILL AND THE TOTAL AREA TO BE DISTURBED AS SHOWN ON THESE PLANS HAS BEEN DETERMINED TO BE 99,926 SQUARE FEET.

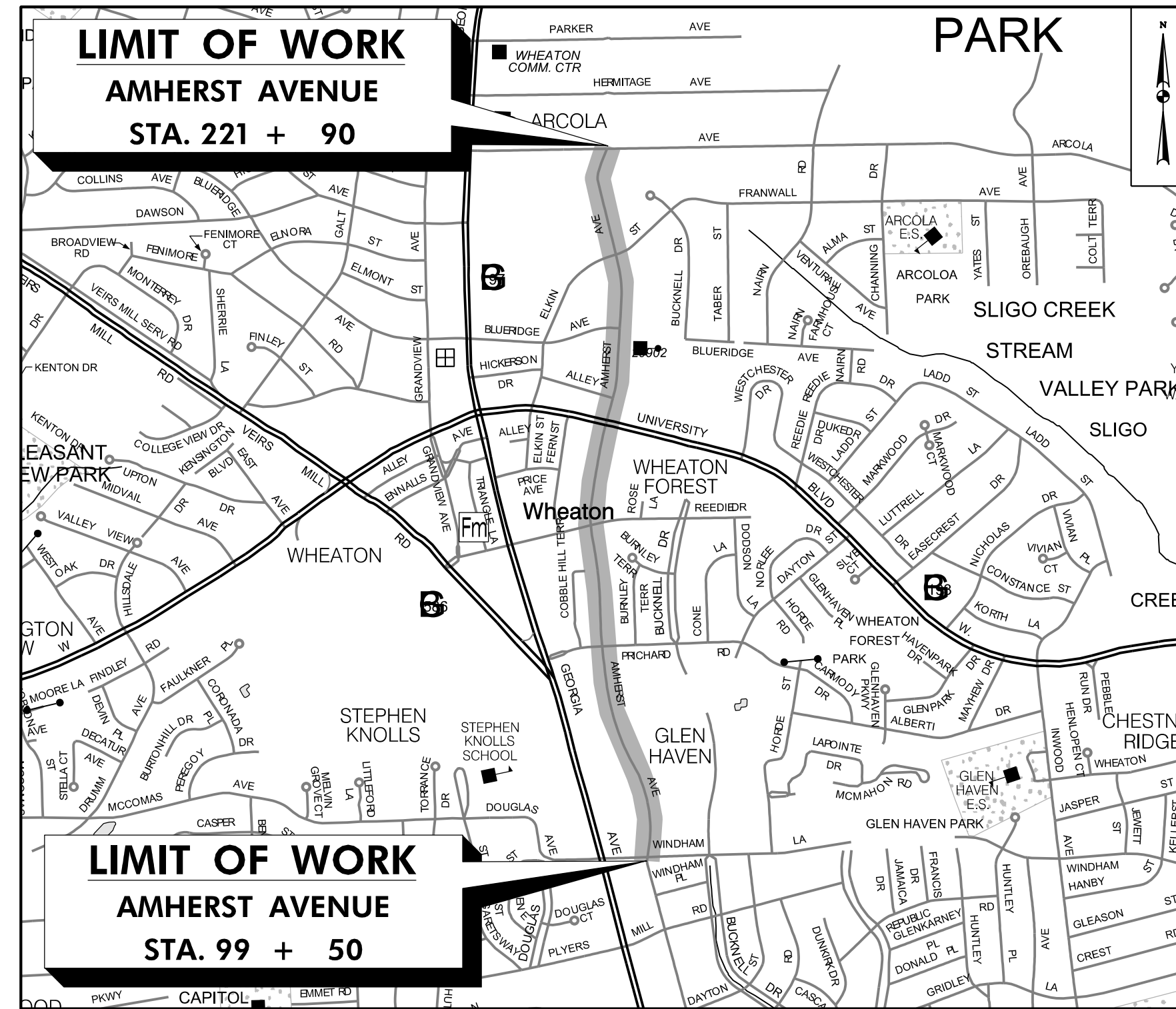
DATE: _____
STEVEN J. ZEENDER, P.E.
MD. REGISTRATION NO. 31369

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

- A. MD 104.02-02 - Shoulder Work/2-Lane, 2-Way Equal/
Less than 40 MPH
- B. MD 104.02-04 - Lane Shift Right or Left Side/2-Lane,
2-Way Equal/Less than 40 MPH/ 15 Min -
12 Hrs. or Daytime Only
- C. MD 104.02-10 - Flagging Operation/2-Lane, 2-Way Equal/
Less than 40 MPH
- D. MD 104.04-14 - Left-Turn Bay Closure/Divided Uncon. Equal/
Less than 40 MPH
- E. MD 104.04-16 - Inter. (Left Lane, Turn Bay) Closure/Divided
Uncon. Equal/Less than 40 MPH
- F. MD 374.31 - Standard C O G Inlets 5', 10', 15' & 20'
- G. MD 374.68 - Precast or Cast-In-Place C O G/C O S
Opening for 8' Curb 5' or 10' Only
- H. MD 383.01 - Standard Manhole
- I. MD 386.11 - Standard Junction Box
- J. MD 620.02-01 - Standard Types C And D Concrete Curb and
Combination Concrete Curb & Gutter
- K. MD 620.03 - Depressed Curb for Combination Curb and Gutter
and Depressed Curb for Sidewalk Ramps
- L. MD 630.01 - Standard Entrance Construction Residential
& Commercial Method No. 1
- M. MD 630.02 - Standard Entrance Construction Residential
& Commercial Method No. 2
- N. MD 655.11 - Sidewalk Ramps Perpendicular
- O. MD 655.12 - Sidewalk Ramps Parallel
- P. MD 655.13 - Sidewalk Ramps Combination
- Q. MD 655.40 - Detectable Warning Surfaces
- R. MD 657.00 - Standard Stairways
- S. MC-100.01 - Combination Concrete Curb and Gutter - Type A
- T. MC-102.01 - Depressed Curb Entrance
- U. MC-111.01 - Business District Sidewalk
- V. MC-111.02 - Streetscape - Pavers Sidewalk
- W. MC-501.J - *A' Inlet
- X. MC-502.2 - Reverse *B' Inlet
- Y. MC-510.01 - *A' Manhole

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/bizstdspecs/desManualStdPub/publicationsonline/ohd/bookstd/index.asp>
<https://www.montgomerycountymd.gov/dot-dte/common/standards.html>



OWNER - MONTGOMERY COUNTY DEPT. OF TRANSPORTATION
TIM CUPPLES
100 Edison Park Drive, 4th Floor
Gaithersburg, MD 20878
240-777-7220
tim.cupples@montgomerycountymd.gov

PROJECT MANAGER
ANGEL CHENG
100 Edison Park Drive, 4th Floor
Gaithersburg, MD 20878
240-777-7274
angel.cheng@montgomerycountymd.gov

NO.	REVISION	BY	APP'D	DATE	DESIGNED BY: UMK	DATE: OCTOBER, 2023
					DRAWN BY: UMK	DATE: OCTOBER, 2023
					CHECKED BY: SJZ	DATE: OCTOBER, 2023
					DRAWING NO.:	DATE:
					RECOMMENDED FOR APPROVAL	
					Chief, Design Section	Date
					APPROVED	
					Chief, Division of Transportation Engineering	Date

RELATED REQUIRED PERMITS					
IT IS THE RESPONSIBILITY OF PERMITTEE/OWNER OF THIS SITE TO OBTAIN ALL REQUIRED PERMITS PRIOR TO ISSUANCE OF APPROVED SEDIMENT CONTROL PERMIT					
TYPE OF PERMIT	RECD	NOT RECD	PERMIT NO.	EXPIRATION DATE	WORK RESTRICTION DATES
MCDPS Floodplain District		X			
WATERWAY/WETLAND(S)					
a. Corps of Engineers		X			
b. MDE		X			
c. MDE Water Certification		X			
MDE Dam Safety		X			
DPS Roadside Trees Protection Plan		X			
N.P.D.E.S. NOTICE OF INTENT	X				DATE FILED
FEMA LOMR (Required Post Construction)		X			
SHA Access Permit	X		19APM0015XX		
MCDPS SEDIMENT CONTROL	X		288143		

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.

DESIGN TRAFFIC DATA

ROADWAY	AMHERST	
CONTROLS / YEARS	2018	
AVERAGE DAILY TRAFFIC (A.D.T.)	6,820	
DESIGN HOURLY VOLUME (D.H.V.)		
DIRECTIONAL DISTRIBUTION		
% TRUCKS - A.D.T.		
% TRUCKS - D.H.V.		
DESIGN SPEED M. P. H.	25	
FUNCTIONAL CLASSIFICATION	LOCAL	
CONTROL OF ACCESS	NONE	
INTENSITY OF DEVELOPMENT	URBAN	
TERRAIN	ROLLING	
ANTICIPATED POSTED SPEED	25	

TI-01

DEPARTMENT OF TRANSPORTATION
DIVISION OF TRANSPORTATION ENGINEERING
MONTGOMERY COUNTY, MARYLAND

AMHERST AVE CYCLE TRACK
TITLE SHEET

SCALE: N.T.S. SHEET 01 of 208

810 Gleneagles Court, Suite 300
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: _____

10/9/2023 U:\2026213141\700 CADD\700 Sheet\pCN\T000_AmherstAve.dgn

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I-01

NO.	REVISION	BY	APP'D	DATE	DESIGNED BY: UMK	DATE: OCTOBER, 2023
					DRAWN BY: UMK	DATE: OCTOBER, 2023
					CHECKED BY: SJZ	DATE: OCTOBER, 2023
					DRAWING NO.:	DATE:
RECOMMENDED FOR APPROVAL						
					Chief, Design Section	Date
APPROVED						
					Chief, Division of Transportation Engineering	Date

DEPARTMENT OF TRANSPORTATION
DIVISION OF TRANSPORTATION ENGINEERING
MONTGOMERY COUNTY, MARYLAND

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AMHERST AVE CYCLE TRACK

SCALE: N.T.S.

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810 Glenegles Court, Suite 300
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: _____

GENERAL NOTES

1. 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 83/91 DATUM 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 1-800-257-7777 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 SOODED. 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
10. 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.
11. 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.
14. METER NUMBERS FOR PARKING SPACES TO BE REMOVED ARE 1102, 1104, 1106, 1108, 1110, 1112, 1118, 1202, 1204, 1206, and 1208.

SURVEY

1. HORIZONTAL DATUM: MARYLAND STATE PLANE COORDINATE SYSTEM
 VERTICAL DATUM: NAD 83/91
 SURVEY UNIT: NAVD 1988 SURVEY FEET
2. DATE OF SURVEY: JANUARY 2019, SUPPLEMENTED JULY 2023
 SURVEY PERFORMED BY: MERCADO CONSULTANTS INC.
 17830 NEW HAMPSHIRE AVE. SUITE 200
 ASHTON, MD 20861
 PHONE: 301-260-0090
 FAX: 301-260-0018
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 CONSULTATION WITH A MARYLAND-LICENSED SUREVEYOR IS ADVISED.

UTILITES

1. DATE OF INVESTIGATION: JANUARY 2019
 UTILITY INVESTIGATION: QL/D
 PERFORMED BY: STANTEC CONSULTING SERVICES, INC.
 810 GLEN EAGLES COURT, SUITE 300
 BALTIMORE, MD 21286
 PHONE: (410) 583-6700 FAX: (410) 583-6704
- DATE OF INVESTIGATION: OCTOBER 2022
 UTILITY INVESTIGATION: QL/B
 PERFORMED BY: AB CONSULTANTS, INC.
 9450 ANNAPOLIS ROAD
 LANHAM, MD 20706
 PHONE: (301) 306-3091 FAX: (301) 306-3092
- DATE OF INVESTIGATION: SEPTEMBER 2023
 UTILITY INVESTIGATION: QL/A
 PERFORMED BY: AB CONSULTANTS, INC.
 9450 ANNAPOLIS ROAD
 LANHAM, MD 20706
 PHONE: (301) 306-3091 FAX: (301) 306-3092
- UTILITY MAPPING (QUALITY MAPPING B) WAS PREPARED WITHIN THE VICINITY OF PROPOSED TRENCH EXCAVATIONS. ALL OTHER 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 10 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
 - FIBERLIGHT, MATT TRACEY, 703-395-4138
 - 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
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 24 INCHES OF A GAS FACILITY.
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.

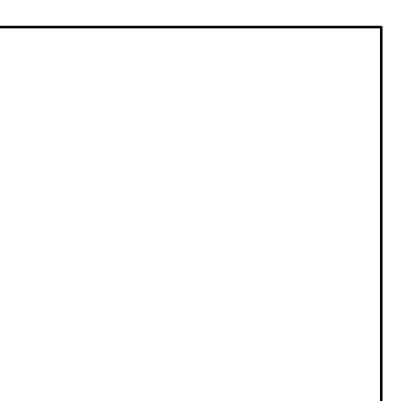
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GN-01

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					Chief, Design Section	Date
					APPROVED	
					Chief, Division of Transportation Engineering	Date

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

GENERAL NOTES
 AMHERST AVE CYCLE TRACK



PROFESSIONAL CERTIFICATION:
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ABBREVIATIONS

A.A.S.H.T.O. ... American Association of State Highway Transportation Officials	H.D.P. High Density Polyethylene	R Radius
ABUT. Abutment	HDWL. Headwall	REINF. Reinforcement
ADT Average Daily Traffic	H.E.R.C.P. Horizontal Elliptical Reinforced Concrete Pipe	REQ'D Required
AHD Ahead	H.P. High Point	R.F. Rock Fragments
APPROX. Approximate	H.S.D. Headlight Sight Distance	RT. Right
BL or BL Baseline	IN Inch	RW or RW Right of Way
BK Back /Book	I.S.T. Inlet Sediment Trap	R.C.P. Reinforced Cement Pipe
BIT. Bituminous	INV. Invert	R.C.C.P. Reinforced Cement Concrete Pipe
B.C. Bituminous Concrete	J.B. Junction Box	R.Q.D. Rock Quality Designation
B.M. Bench Mark	K K Inlet	R.M. Rootmat
B.O.F. Bottom of Footing	L Length	S South
BOT. Bottom	L.F. Linear Feet	SAN. Sanitary Sewer
BRG. Bearing	L.L. Liquid Limit	SB Southbound
C.C. Center of Curve	LOD Limit of Disturbance	S.D. Storm Drain
CATV Cable Television	LONG. Longitudinal	S.D.D. Surface Drain Ditch
C.B.R. California Bearing Ratio	L.P. Light Pole	SE Super Elevation
C.J. Contraction Joint	LT Left	SF Silt Fence
C or CL Centerline	MAC. Macadam	S.F. Square Feet
CL Class or Clear	MC Moisture Content	SHLDR. Shoulder
CLF Chainlink Fence	MAX. Maximum	SHA State Highway Administration
CMP Corrugated Metal Pipe	MDD Maximum Dry Content	SHT. Sheet
C.O. Cleanout	MOD. Modified	S.P.P. Structural Plate Pipe
COMB. Combination	MIN. Minimum	S.P.T. Standard Penetration Testing
CONC. Concrete	MN. Managed Roadway	S.S. Stainless Steel
CONSTR. Construction	M.S.E. Mechanically Stabilized Earth	SSD Stopping Sight Distance
COR. Corner	N North	SSF Super Silt Fence
CORR. Correction	NB Northbound	STD. Standard
C.Y. Cubic Yard	NE Northeast	STA. Station
DC Degree of Curve	NO. Number	STIFF. Stiffener
D.H.V. Design Hourly Volume	NP Non-Plastic	SO. Single Opening
D.I. Drop Inlet	N.T.S. Not To Scale	S.Y. Square Yards
DIA. Diameter	O.C. On Center	SWM Stormwater Management
D.O. Double Opening	OH Overhead	T Tangent
D.S. Design Speed	OMC Optimum Moisture	T Telephone
DWG. Drawing	PAV T. Pavement	TBR To Be Removed
E East	PC Point of Curvature	T.C. Top of Cover
E Electric	PCC Point of Compound Curvature	TEMP. Temporary
e External Distance	PC Point of Crown	T.G. Top of Gate
EA. Each	PGE Profile Grade Elevation	T or TL Traverse Line
EB Eastbound	P.G.L. Profile Grade Line	T.M. Top of Manhole
E.J. Expansion Joint	PGL Profile Ground Line	T.O.F. Top of Footing
EL or ELEV. Elevation	PL Plate	TRAV. Traverse
E.R.C.C.P. Elliptical Reinforced Cement Concrete Pipe	PR Point of Rotation	TS Temporary Swale
ES End Section	P.I. Plasticity Index	T.S. Top of Slab
EX or EXIST. Existing	P.J. Point of Intersection	T.S. Topsoil
FT. Feet	POC Point On Curve	TYP. Typical
F or FL Flowline	POT Point On Tangent	U.D. Under Drain
F.B.D. Flat Bottom Ditch	PR. Proposed	U.G. Underground
F.H. Fire Hydrant	PR. ROW Proposed Right of Way	U.O.N. Unless Otherwise Noted
F.O. Fiber Optic	PROP. Proposed	U.P. Utility Pole
F.O.C. Face of Curb	PRC Point of Reverse Curve	USC Unified Soil Classification
F.S. Full Super Elevation	PT. Point	USDA United States Department of Agriculture
FWD. Forward	PT Point of Tangency	VCL Vertical Clearance
G Gas	PVC Point of Vertical Curve	V.C.L. Vertical Curve Length
GL Gutterline	P.V.C. Polyvinyl Chloride	W Water
GP General Purpose Roadway	PVI Point of Vertical Intersection	W West
G.V. Gas Valve	PVRC Point of Vertical Reverse Curve	WB Westbound
H.B. Handbox	PVT Point of Vertical Tangency	W.M. Water Meter
		W.S. Wrapped Steel

SYMBOLS

EXISTING RIGHT OF WAY LINE		CUT SLOPE	
PROPOSED RIGHT OF WAY LINE		FILL SLOPE	
PROPOSED TRAFFIC BARRIER		LIMIT OF DISTURBANCE	
EXISTING TRAFFIC BARRIER		SILT FENCE	
EXISTING WOOD FENCE LINE		SUPER SILT FENCE	
EXISTING CHAIN LINK FENCE LINE		DIVERSION FENCE	
BASE OR SURVEY LINE		STONE CHECK DAM	
EXISTING FIRE HYDRANT		TEMPORARY STONE OUTLET STRUCTURE	
PROPOSED STORM DRAIN		TEMPORARY GABION OUTLET STRUCTURE	
EXISTING STORM DRAIN		AT-GRADE INLET PROTECTION	
EXISTING INLET		CURB INLET PROTECTION	
EXISTING UTILITY POLE		COMBINATION INLET PROTECTION	
EXISTING TREE		MEDIAN INLET PROTECTION	
EXISTING TREE LINE		STANDARD INLET PROTECTION	
EXISTING TREE TO BE REMOVED		TEST HOLE LOCATION	
EXISTING GAS LINE (QUALITY LEVEL D)		STABILIZED CONSTRUCTION ENTRANCE	
EXISTING GAS LINE (QUALITY LEVEL B /C)		TEMPORARY ORANGE CONSTRUCTION FENCE	
EXISTING ELECTRIC LINE (QUALITY LEVEL D)		PROPOSED TREE	
EXISTING ELECTRIC LINE (QUALITY LEVEL B /C)		CRITICAL ROOT ZONE	
EXISTING TELEPHONE LINE (QUALITY LEVEL D)		TREE REMOVAL	
EXISTING TELEPHONE LINE (QUALITY LEVEL B /C)			
EXISTING SANITARY SEWER LINE (QUALITY LEVEL D)			
EXISTING SANITARY SEWER LINE (QUALITY LEVEL B /C)			
EXISTING WATER LINE (QUALITY LEVEL D)			
EXISTING WATER LINE (QUALITY LEVEL B /C)			

AB-01

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APPROVED	
Chief, Division of Transportation Engineering _____	Date _____

DEPARTMENT OF TRANSPORTATION
 DIVISION OF TRANSPORTATION ENGINEERING
 MONTGOMERY COUNTY, MARYLAND

ABBREVIATIONS AND SYMBOLS
 AMHERST AVE
 SEPARATED BIKE LANES

SCALE: N.T.S. SHEET 04 of 208

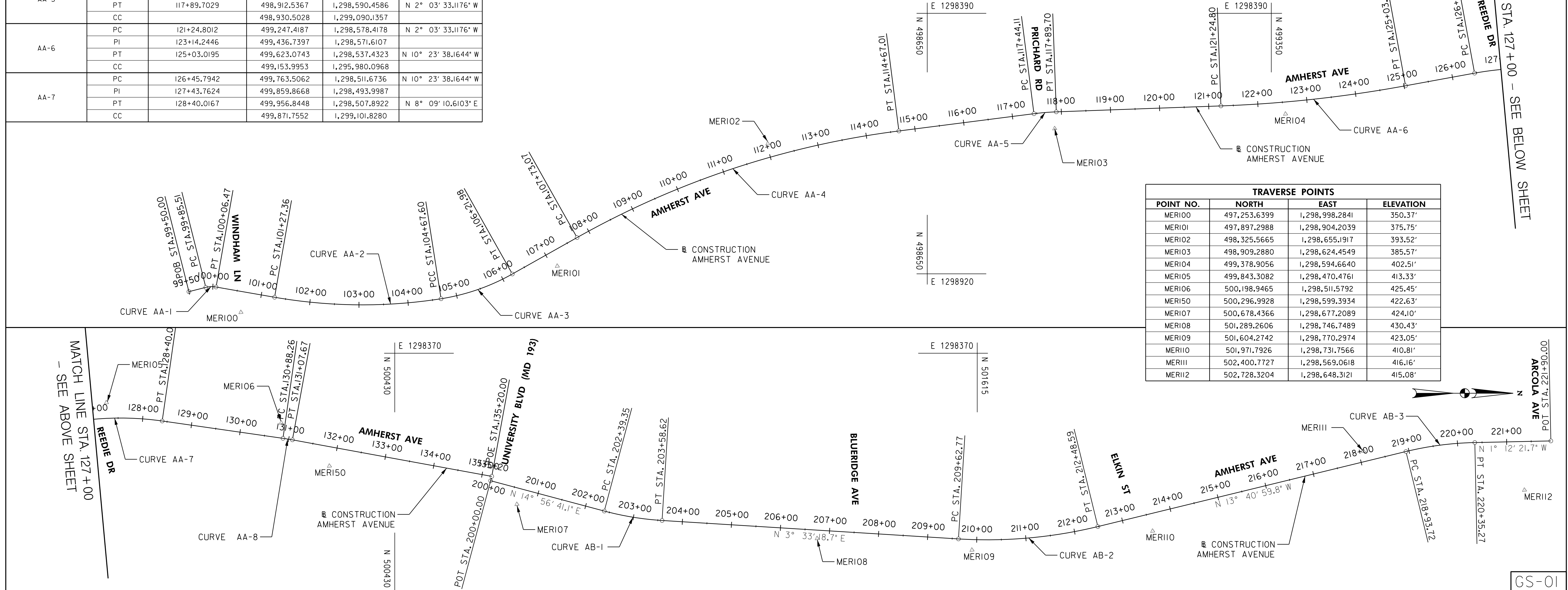
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AMHERST AVENUE					
CURVE	POINT NO.	STATION	NORTH	EAST	BEARING
AA-1	POT	99+50.0000	497,147.8201	1,298,956.1517	N 14° 05' 45.24" W
	PC	99+85.5132	497,182.2632	1,298,947.5028	N 14° 05' 45.24" W
	PI	99+95.9945	497,192.5785	1,298,944.9125	
	PT	100+06.4721	497,203.0550	1,298,946.7449	N 9° 55' 15.4488" E
	CC		497,194.4405	1,298,995.9972	
AA-2	PC	101+27.3579	497,322.1342	1,298,967.5724	N 9° 55' 15.4488" E
	PI	102+99.0238	497,491.2331	1,298,997.1487	
	PCC	104+67.5982	497,660.8340	1,298,970.6021	N 8° 53' 45.4848" W
	CC		497,500.6261	1,297,947.0644	
AA-3	PCC	104+67.5982	497,660.8340	1,298,970.6021	N 8° 53' 45.4848" W
	PI	105+45.6237	497,737.9209	1,298,958.5362	
	PT	106+21.9848	497,805.9164	1,298,920.2662	N 29° 22' 19.6540" W
	CC		497,594.0291	1,298,543.7987	
AA-4	PC	107+73.0711	497,937.5810	1,298,846.1615	N 29° 22' 19.6540" W
	PI	111+24.4050	498,243.7518	1,298,673.8393	
	PT	114+67.0142	498,592.2510	1,298,629.2991	N 7° 16' 59.6303" W
	CC		498,820.4447	1,300,414.7760	
AA-5	PC	117+44.1146	498,867.1156	1,298,594.1699	N 7° 16' 59.6303" W
	PI	117+66.9246	498,889.7415	1,298,591.2782	
	PT	117+89.7029	498,912.5367	1,298,590.4586	N 2° 03' 33.1176" W
	CC		498,930.5028	1,299,090.1357	
AA-6	PC	121+24.8012	499,247.4187	1,298,578.4178	N 2° 03' 33.1176" W
	PI	123+14.2446	499,436.7397	1,298,571.6107	
	PT	125+03.0195	499,623.0743	1,298,537.4323	N 10° 23' 38.1644" W
	CC		499,153.9953	1,295,980.0968	
AA-7	PC	126+45.7942	499,763.5062	1,298,511.6736	N 10° 23' 38.1644" W
	PI	127+43.7624	499,859.8668	1,298,493.9987	
	PT	128+40.0167	499,956.8448	1,298,507.8922	N 8° 09' 10.6103" E
	CC		499,871.7552	1,299,101.8280	

AMHERST AVENUE					
CURVE	POINT NO.	STATION	NORTH	EAST	BEARING
AA-8	PC	130+88.2641	500,202.5832	1,298,543.0976	N 8° 09' 10.6103" E
	PI	130+97.9661	500,212.1871	1,298,544.4735	
	PT	131+07.6657	500,221.7305	1,298,546.2210	N 10° 22' 34.3529" E
	CC		500,131.6751	1,299,038.0441	
AB-1	POT	135+20.0000	500,627.3217	1,298,620.4868	N 10° 22' 34.35" E
	POT	200+00.0000	500,625.0066	1,298,629.3824	N 14° 56' 41.07" E
	PC	202+39.3489	500,856.2595	1,298,691.1074	N 14° 56' 41.0656" E
	PI	202+99.1816	500,914.0683	1,298,706.5375	
AB-2	PT	203+58.6199	500,973.7858	1,298,710.2477	N 3° 33' 18.7207" E
	CC		501,010.9919	1,298,111.4024	
	PC	209+62.7697	501,576.7730	1,298,747.7111	N 3° 33' 18.7207" E
	PI	211+06.7701	501,720.4962	1,298,756.6406	
AB-3	PT	212+48.5946	501,860.4096	1,298,722.5767	N 13° 40' 59.8257" W
	CC		501,635.6826	1,297,799.5394	
	PC	218+93.7242	502,487.2292	1,298,569.9682	N 13° 40' 59.8257" W
	PI	219+64.7803	502,556.2686	1,298,553.1596	
AB-3	PT	220+35.2743	502,627.3089	1,298,551.6640	N 1° 12' 21.6536" W
	CC		502,640.9897	1,299,201.5200	
	POT	221+90.0000	502,782.0003	1,298,548.4075	N 1° 12' 21.65" W

CURVE DATA						
CURVE	DELTA	Dc	RADIUS	TANGENT	LENGTH	EXTERNAL
AA-1	18° 49' 00.9336" LT	5° 31' 49.7303"	1,036.0000'	171.6659'	340.2403'	14.1263'
AA-2	20° 28' 34.1692" LT	13° 15' 46.4829"	432.0000'	78.0255'	154.3866'	6.9897'
AA-3	22° 05' 20.0237" RT	3° 10' 59.1559"	1,800.0000'	351.3339'	693.9431'	33.9672'
AA-4	5° 13' 26.5127" RT	11° 27' 32.9612"	500.0000'	22.8099'	45.5883'	0.5200'
AA-5	8° 20' 05.0468" LT	2° 12' 13.2618"	2,600.0000'	189.4433'	378.2183'	6.8926'
AA-6	18° 32' 48.7747" RT	9° 32' 57.4677"	600.0000'	97.9682'	194.2225'	7.9455'
AA-7	2° 13' 23.7426" RT	11° 27' 32.9612"	500.0000'	9.7020'	19.4016'	0.0941'
AB-1	11° 23' 22.3449" LT	9° 32' 57.4677"	600.0000'	59.8326'	119.2710'	2.9759'
AB-2	17° 14' 18.5463" LT	6° 01' 52.0849"	950.0000'	144.0004'	285.8249'	10.8518'
AB-3	12° 28' 38.1721" RT	8° 48' 53.0471"	650.0000'	71.0561'	141.5501'	3.8723'



TRAVERSE POINTS			
POINT NO.	NORTH	EAST	ELEVATION
MER100	497,253.6399	1,298,998.2841	350.37'
MER101	497,897.2988	1,298,904.2039	375.75'
MER102	498,325.5665	1,298,655.1917	393.52'
MER103	498,909.2880	1,298,624.4549	385.57'
MER104	499,378.9056	1,298,594.6640	402.51'
MER105	499,843.3082	1,298,470.4761	413.33'
MER106	500,198.9465	1,298,511.5792	425.45'
MER107	500,296.9928	1,298,599.3934	422.63'
MER108	500,678.4366	1,298,677.2089	424.10'
MER109	501,289.2606	1,298,746.7489	430.43'
MER110	501,604.2742	1,298,770.2974	423.05'
MER111	501,971.7926	1,298,731.7566	410.81'
MER112	502,400.7727	1,298,569.0618	416.16'
MER113	502,728.3204	1,298,648.3121	415.08'

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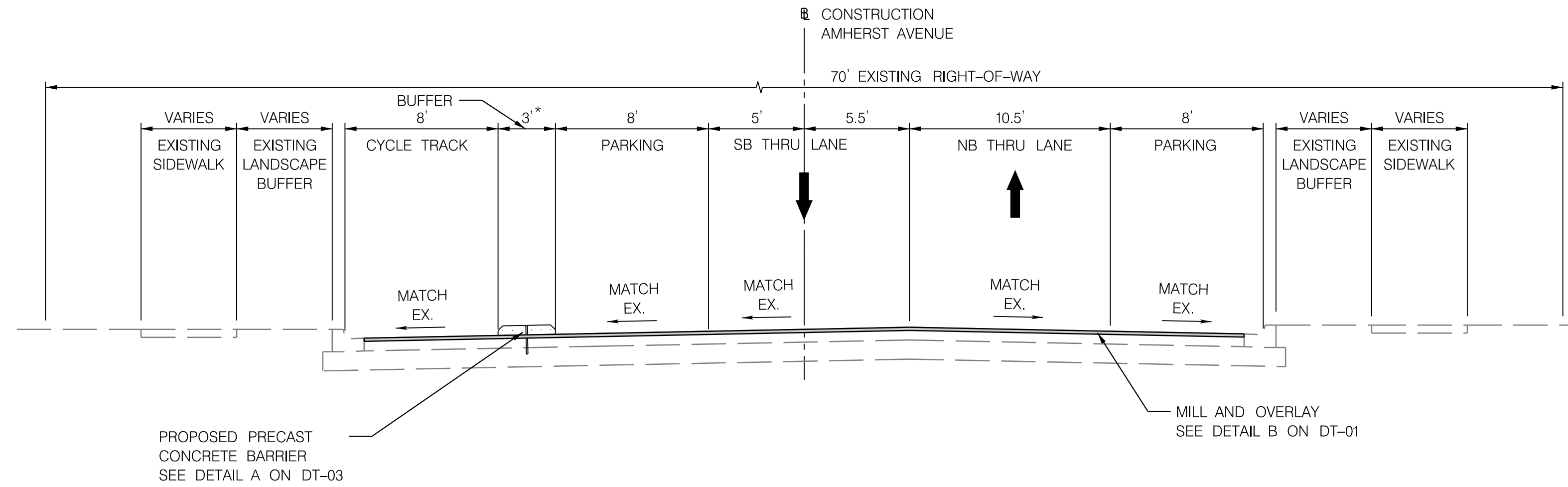
AMHERST AVE CYCLE TRACK
GEOMETRIC LAYOUT

SCALE: 1" = 100'

SHEET 05 of 208

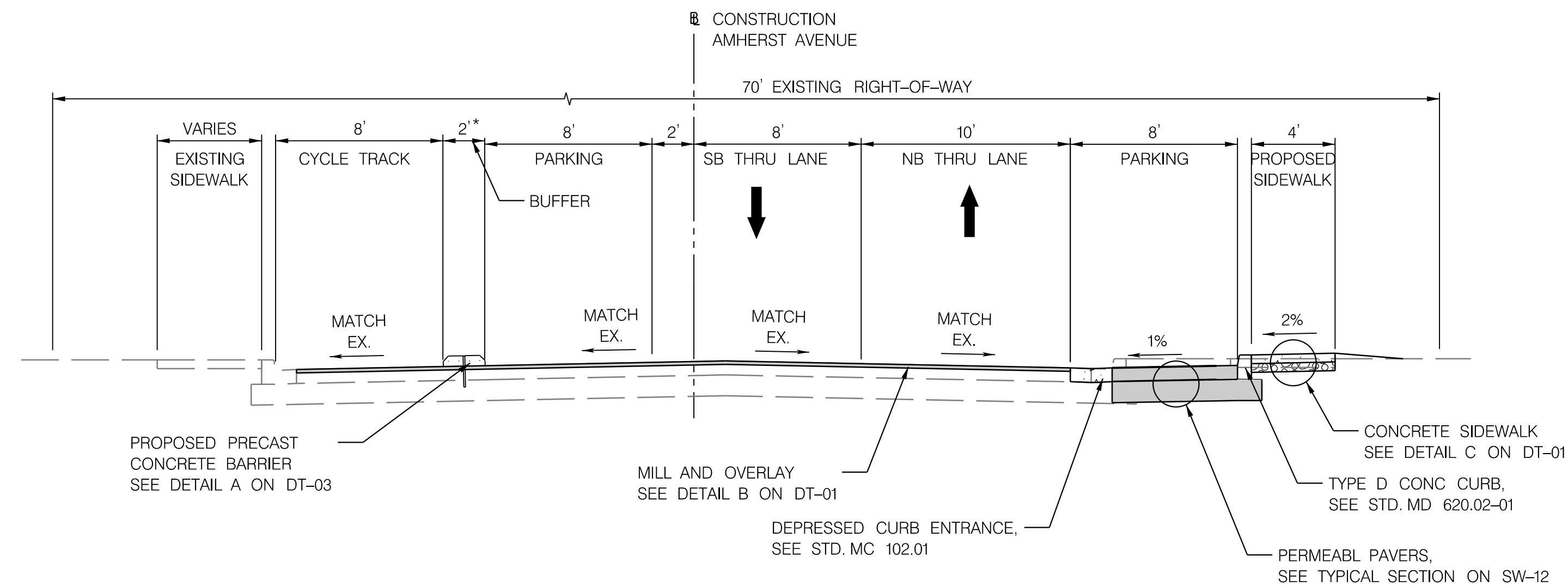
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* STA. 100+79 - STA. 107+62
 * STA. 108+05 - STA. 110+47
 * STA. 111+02 - STA. 113+33
 * STA. 113+89 - STA. 117+01



AMHERST AVENUE
 FROM WYNDHAM LANE TO PRICHARD ROAD
 STA 100+52 - STA 117+23

* STA. 118+10 - STA. 123+09
 * STA. 123+90 - STA. 126+55



AMHERST AVENUE
 FROM PRICHARD ROAD TO REEDIE DRIVE
 STA 117+23 - STA 126+84

- NOTES:
- SEE PLAN SHEETS FOR LIMITS AND PAVEMENT TYPE.
 - SEE DT-01 FOR PAVEMENT DETAILS.
 - SEE PLAN SHEETS FOR LIMITS AND TYPE OF PROPOSED SIDEWALK.



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 MONTGOMERY COUNTY, MARYLAND

AMHERST AVE CYCLE TRACK
 TYPICAL SECTIONS

SCALE: 1" = 5'

SHEET 06 of 208

TS-01

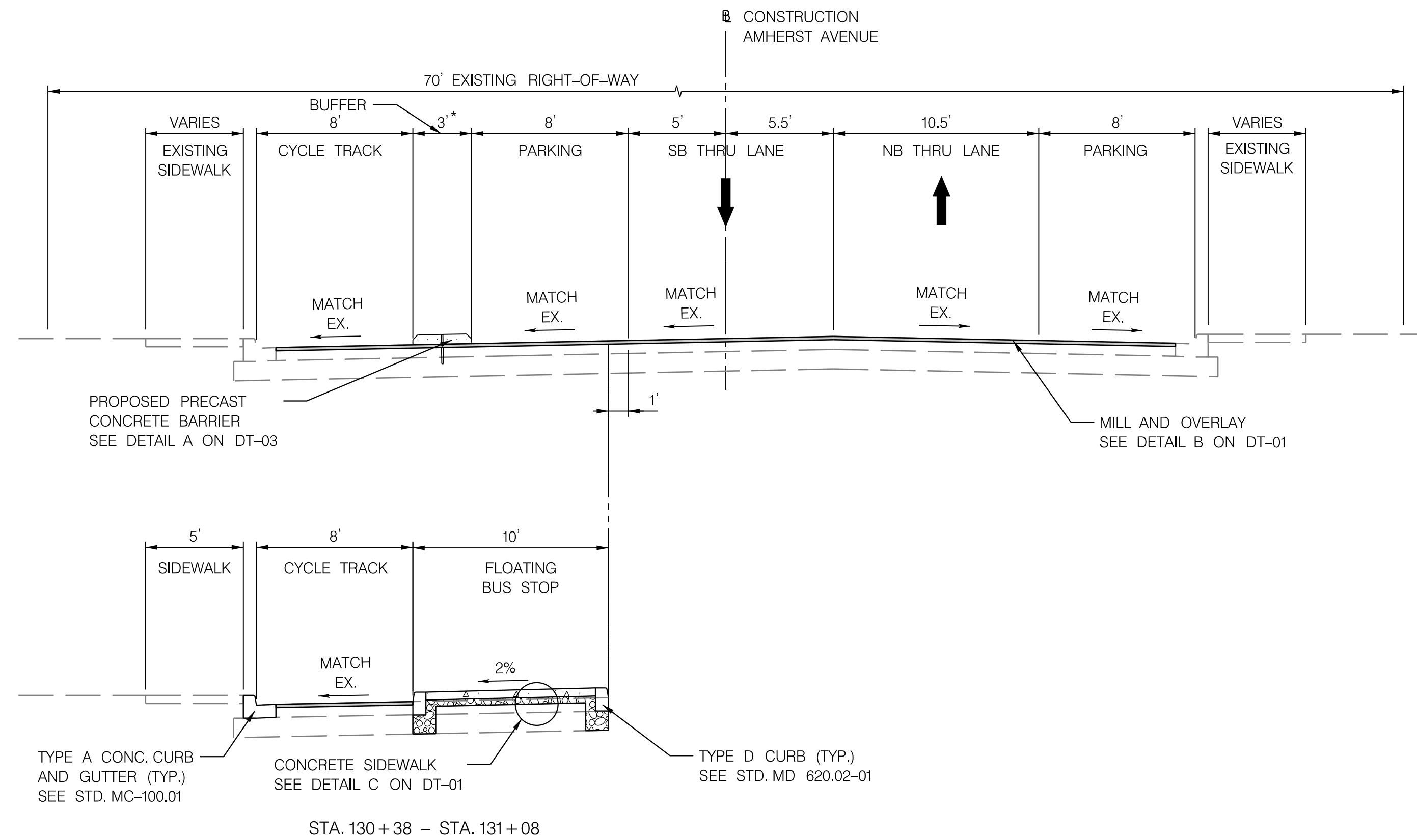


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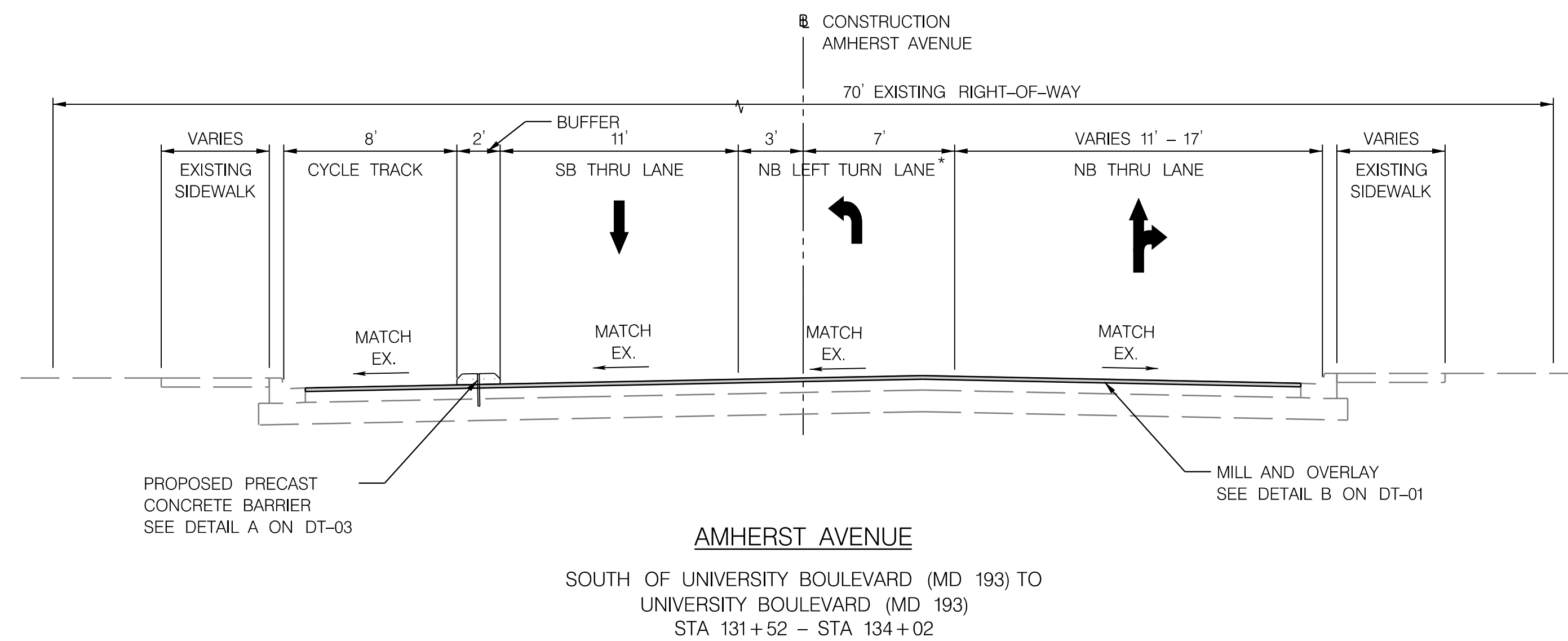
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STA. 127+48 - STA. 130+72



AMHERST AVENUE
 REEDIE DRIVE TO SOUTH OF
 UNIVERSITY BOULEVARD (MD 193)
 STA 126+84 - STA 131+52

*NB LEFT TURN LANE ENDS
 AT STA. 134+47.43



AMHERST AVENUE
 SOUTH OF UNIVERSITY BOULEVARD (MD 193) TO
 UNIVERSITY BOULEVARD (MD 193)
 STA 131+52 - STA 134+02

- NOTES:
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AMHERST AVE CYCLE TRACK
 TYPICAL SECTIONS

SCALE: 1" = 5' SHEET 07 of 208



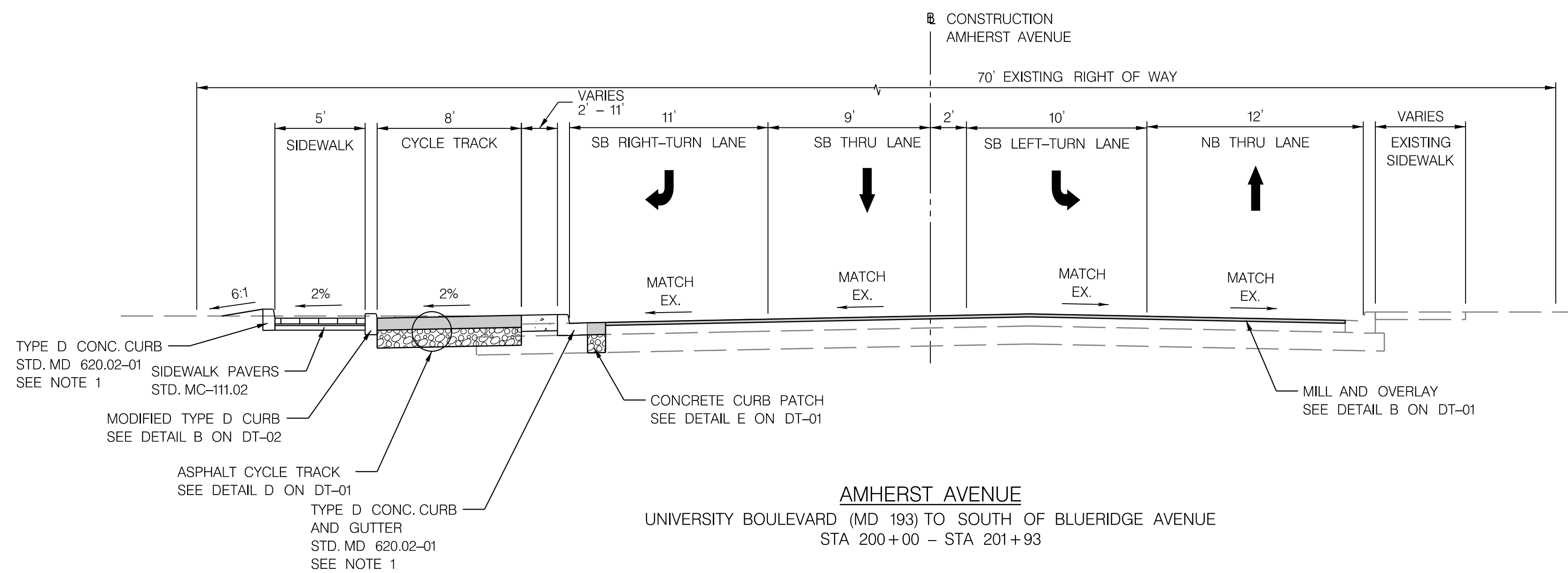
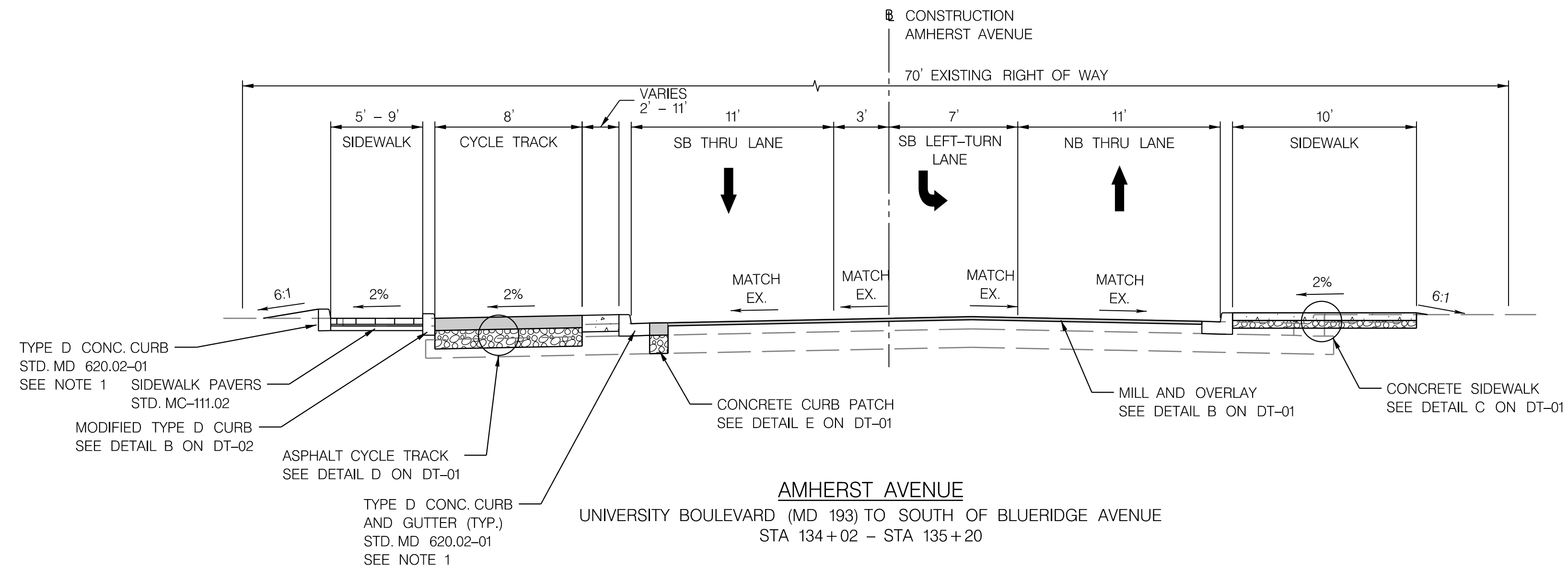
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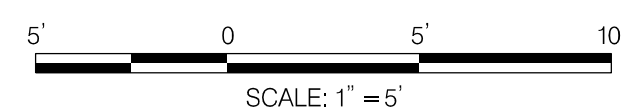
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10/9/2023
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NOTES:

1. CURB AND GUTTER PLACEMENT SHALL BE AS PER STANDARD MD 580.03



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 MONTGOMERY COUNTY, MARYLAND

AMHERST AVE CYCLE TRACK
 TYPICAL SECTIONS

SCALE: 1" = 5'

SHEET 08 of 208

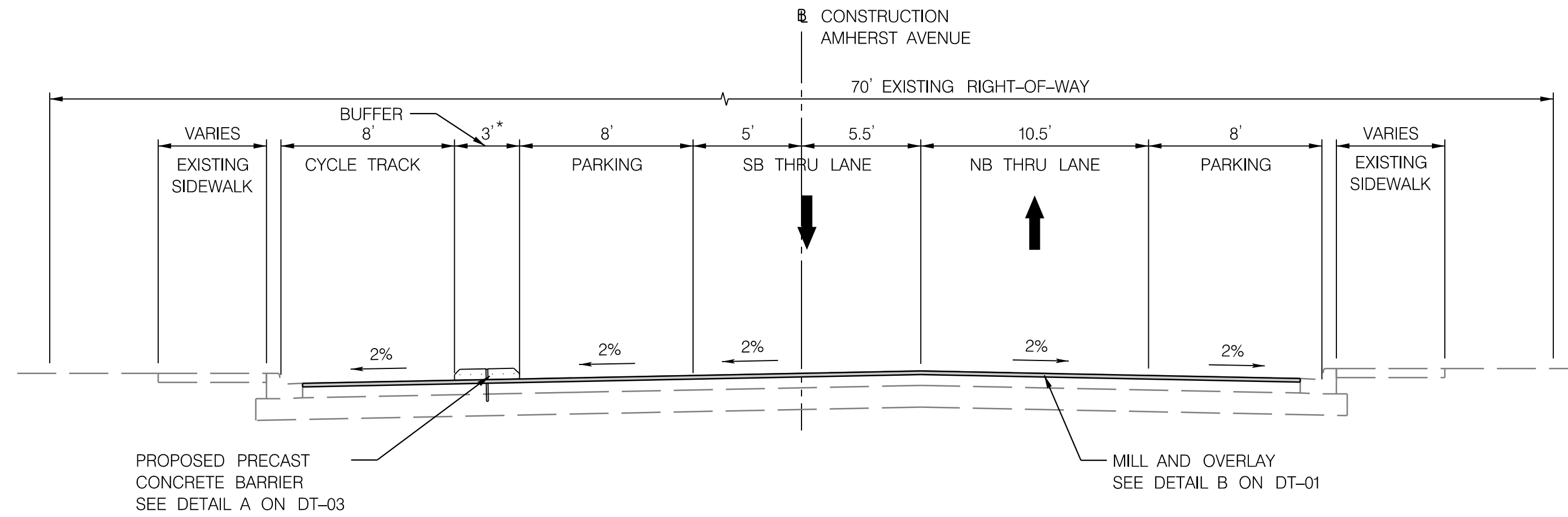
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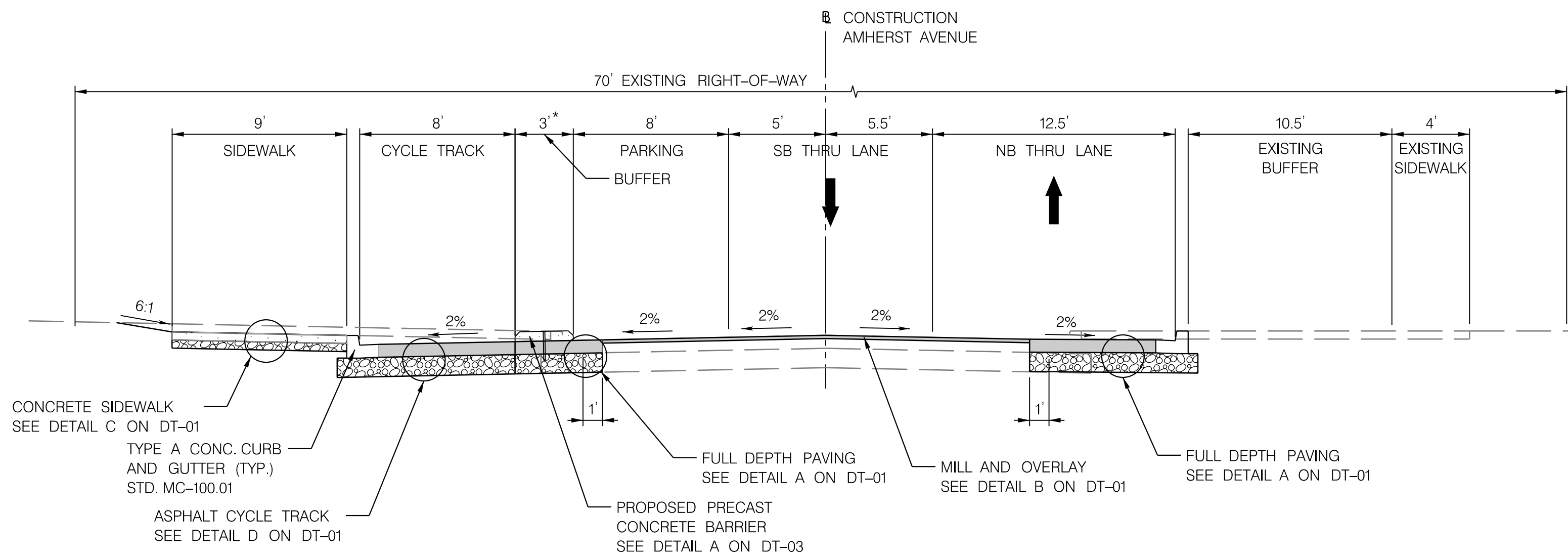
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STA. 202+38 - STA. 203+08
 STA. 203+63 - STA. 206+25



AMHERST AVENUE
 SOUTH OF BLUERIDGE AVENUE TO BLUERIDGE AVENUE
 STA 201+93 - STA 206+65

STA. 206+70 - STA. 207+07



AMHERST AVENUE
 BLUERIDGE AVENUE
 STA 206+65 - STA 207+50



NO.	REVISION	BY	APP'D	DATE	DESIGNED BY: UMK	DATE: OCTOBER, 2023
					DRAWN BY: UMK	DATE: OCTOBER, 2023
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RECOMMENDED FOR APPROVAL						
Chief, Design Section					Date	
APPROVED						
Chief, Division of Transportation Engineering					Date	

DEPARTMENT OF TRANSPORTATION
DIVISION OF TRANSPORTATION ENGINEERING
MONTGOMERY COUNTY, MARYLAND

AMHERST AVE CYCLE TRACK
TYPICAL SECTIONS

SCALE: 1" = 5'

SHEET 09 of 208

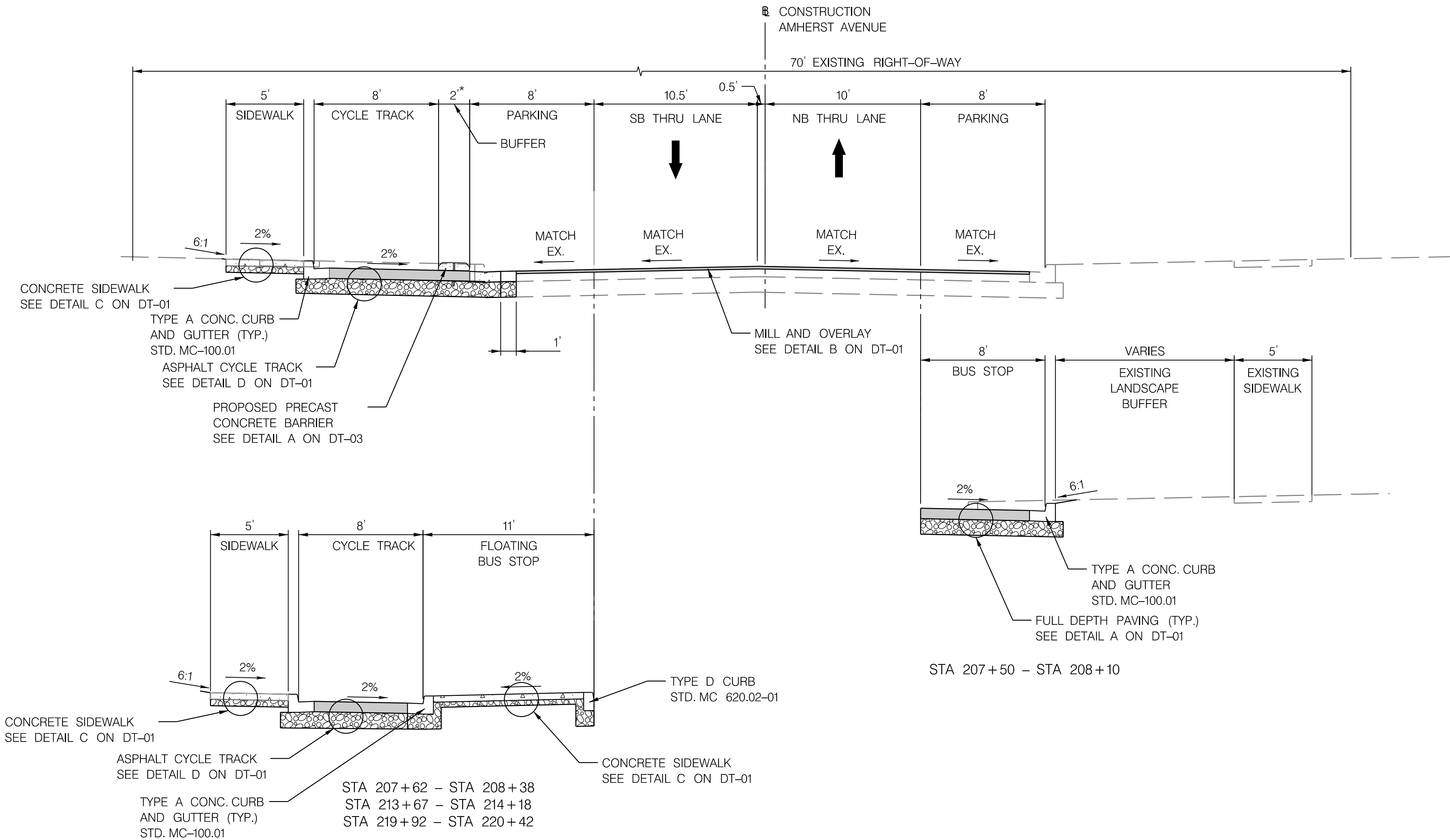
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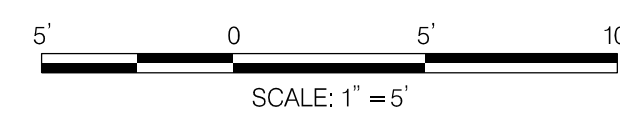
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 LICENSE NO: _____ EXPIRATION DATE: _____

* STA 208+46 – STA. 212+83
 STA. 214+21 – STA. 217+58
 STA. 218+21 – STA. 219+61
 STA. 220+45 – STA. 221+28



AMHERST AVENUE
 BLUERIDGE AVENUE TO ARCOLA AVENUE
 STA 207+50 – STA 221+90



NO.	REVISION	BY	APP'D	DATE

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APPROVED	
Chief, Division of Transportation Engineering	Date

DEPARTMENT OF TRANSPORTATION
 DIVISION OF TRANSPORTATION ENGINEERING
 MONTGOMERY COUNTY, MARYLAND

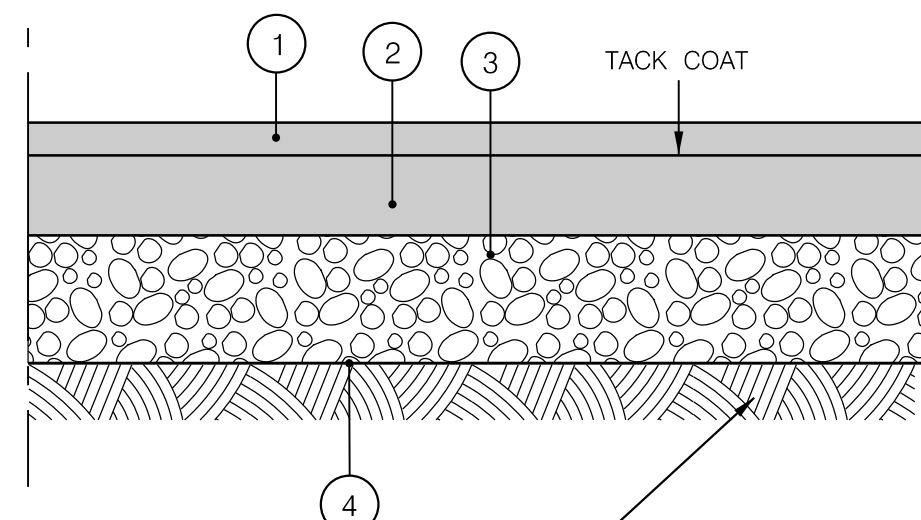
AMHERST AVE CYCLE TRACK
 TYPICAL SECTIONS

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TS-05



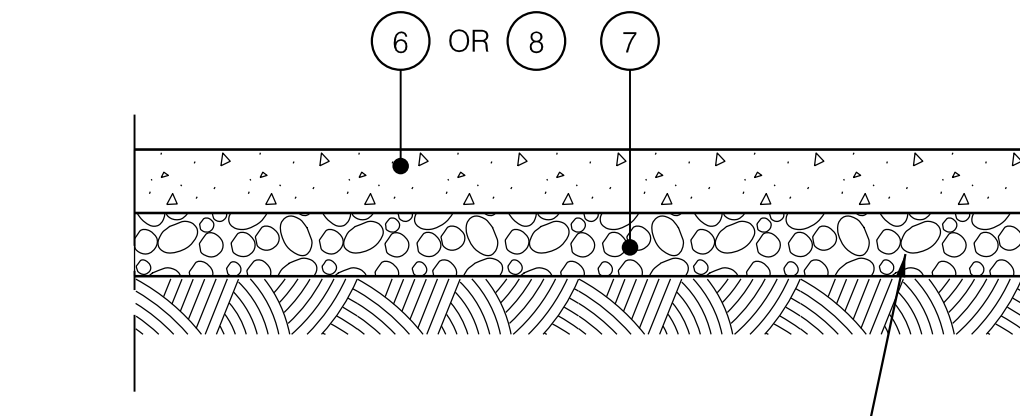
SEE NOTES 1 & 2

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 A

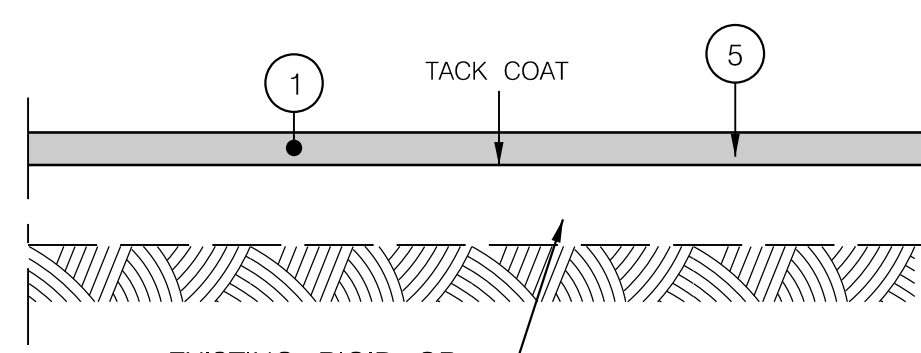
FULL DEPTH ASPHALT PAVEMENT



SUBGRADE PREPARATION PER THE SPECIFICATIONS; UNDERCUT AS DIRECTED BY THE ENGINEER

DETAIL C

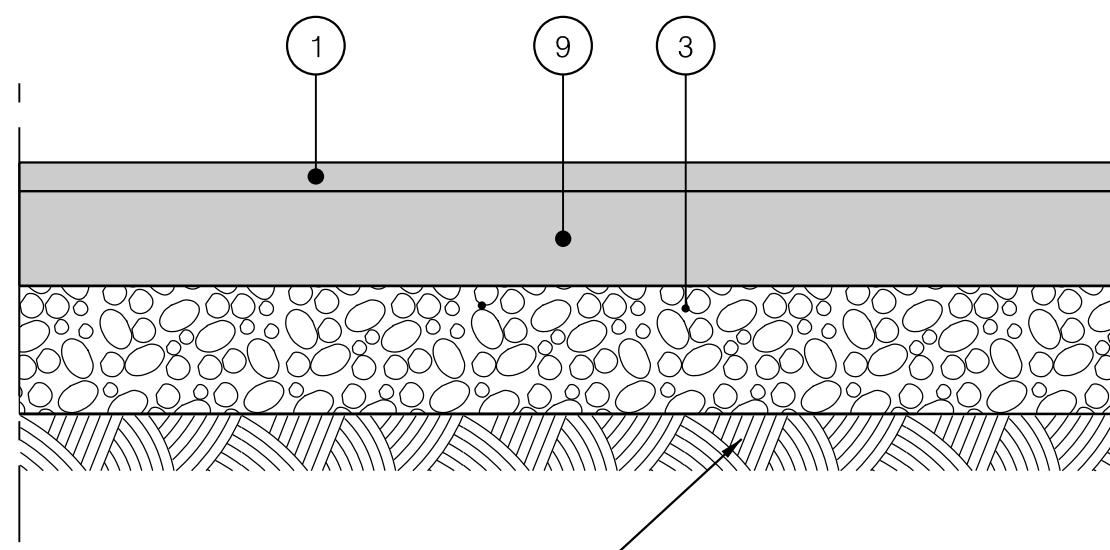
PORTLAND CEMENT CONCRETE SIDEWALK



EXISTING RIGID OR FLEXIBLE PAVEMENT

DETAIL B

MILLING AND OVERLAY



SEE NOTES 1 & 2

NOTES

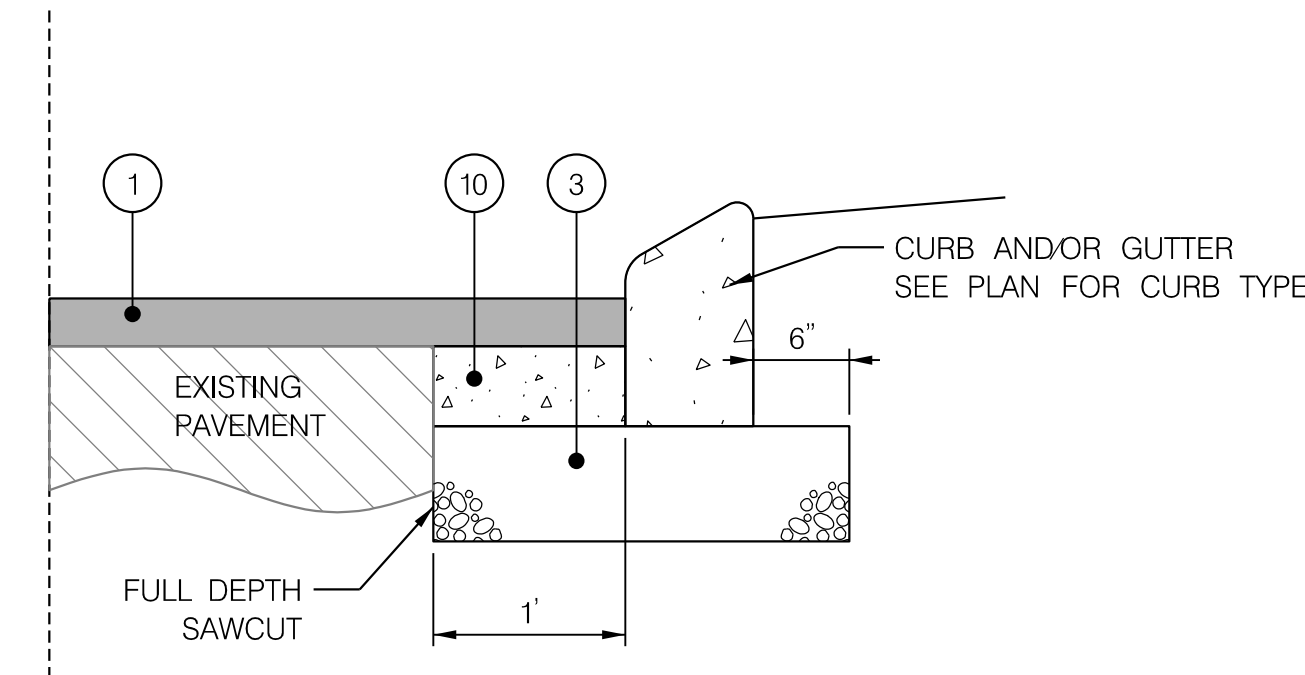
1. SUBGRADE PREPARATION SHALL BE AS PER SECTION 204 OF MDOT SHA SPECIFICATIONS FOR CONSTRUCTION AND MATERIALS; PRIOR TO PLACEMENT OF PROPOSED BASE COURSE, SUBGRADE SHALL BE PROOF-ROLLED.
2. UNDERCUT FOR REMOVAL OF SOFT AND/OR UNSUITABLE MATERIALS AND BACKFILLED WITH GRADED AGGREGATE BASE SHALL BE AS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

DETAIL D

ASPHALT CYCLE TRACK PAVEMENT SECTION

LEGEND

- ① 2" HOT MIX ASPHALT SUPERPAVE, 9.5MM SURFACE COURSE, HDFV, P.G. 64S-22, LEVEL 2
- ② 5" HOT MIX ASPHALT SUPERPAVE, 19.0MM BASE COURSE, P.G. 64S-22, LEVEL 2
- ③ 8" GRADED AGGREGATE BASE, TWO EQUAL LAYERS
- ④ LIMIT OF CLASS I EXCAVATION
- ⑤ MILL EXISTING PAVEMENT TO 2 INCH DEPTH OR SURFACE OF EXISTING RIGID BASE
- ⑥ 5 INCH PLAIN PORTLAND CEMENT CONCRETE MIX NO. 7
- ⑦ AGGREGATE BASE COURSE, 4 INCH
- ⑧ BRICK PAVERS SIDEWALK STD. NO. MC-111.02
- ⑨ VARIABLE DEPTH 19.0MM SUPERPAVE ASPHALT MIX FOR BASE COURSE, PG 64S-22, LEVEL 2, 3.5" MINIMUM LIFT
- ⑩ 8 INCH PLAIN PORTLAND CEMENT CONCRETE MIX NO. 7



DETAIL E

CONCRETE CURB PATCH

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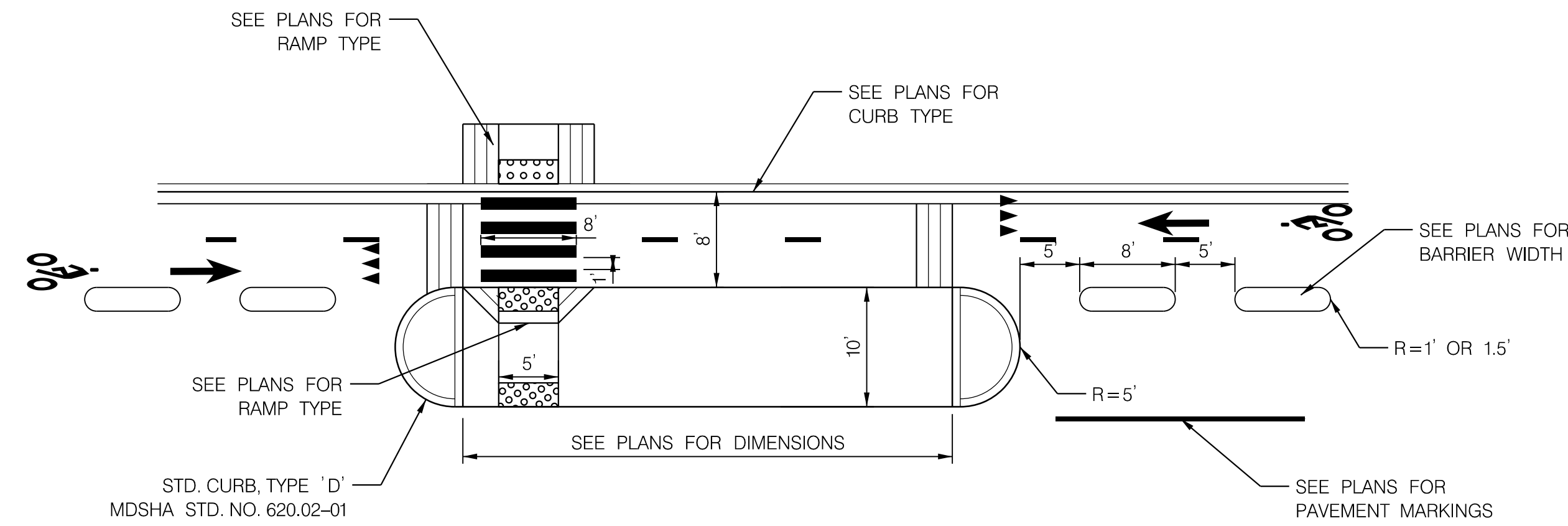
NO.	REVISION	BY	APP'D	DATE

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APPROVED	
Chief, Division of Transportation Engineering _____	Date _____

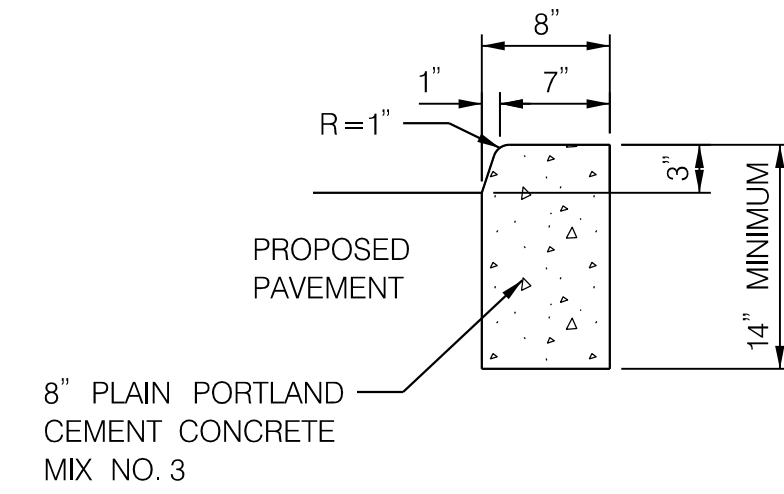
DEPARTMENT OF TRANSPORTATION
DIVISION OF TRANSPORTATION ENGINEERING
MONTGOMERY COUNTY, MARYLAND

AMHERST AVE CYCLE TRACK
PAVEMENT DETAILS

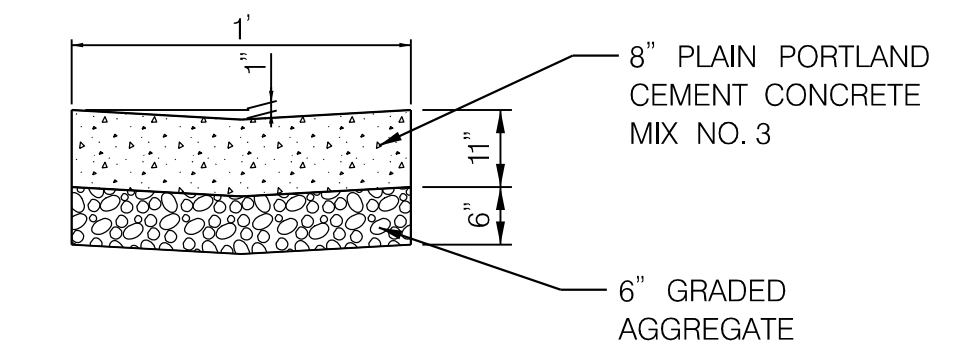
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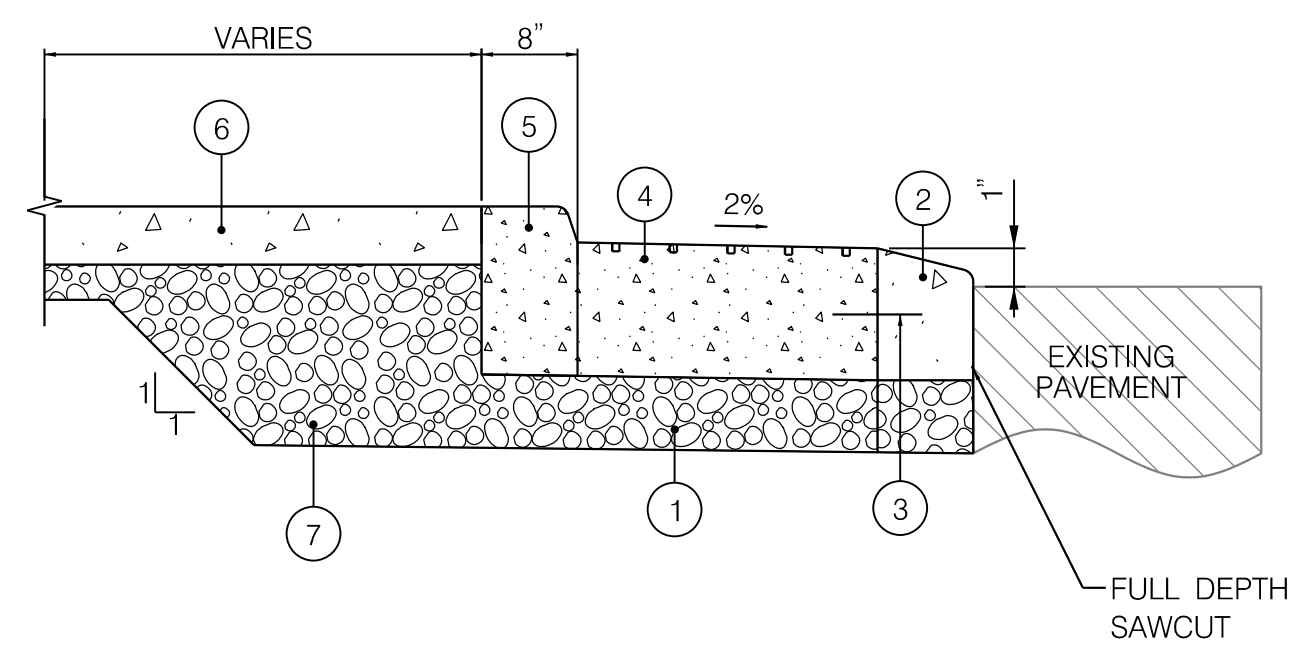
DETAIL A
TYPICAL FLOATING BUS STOP



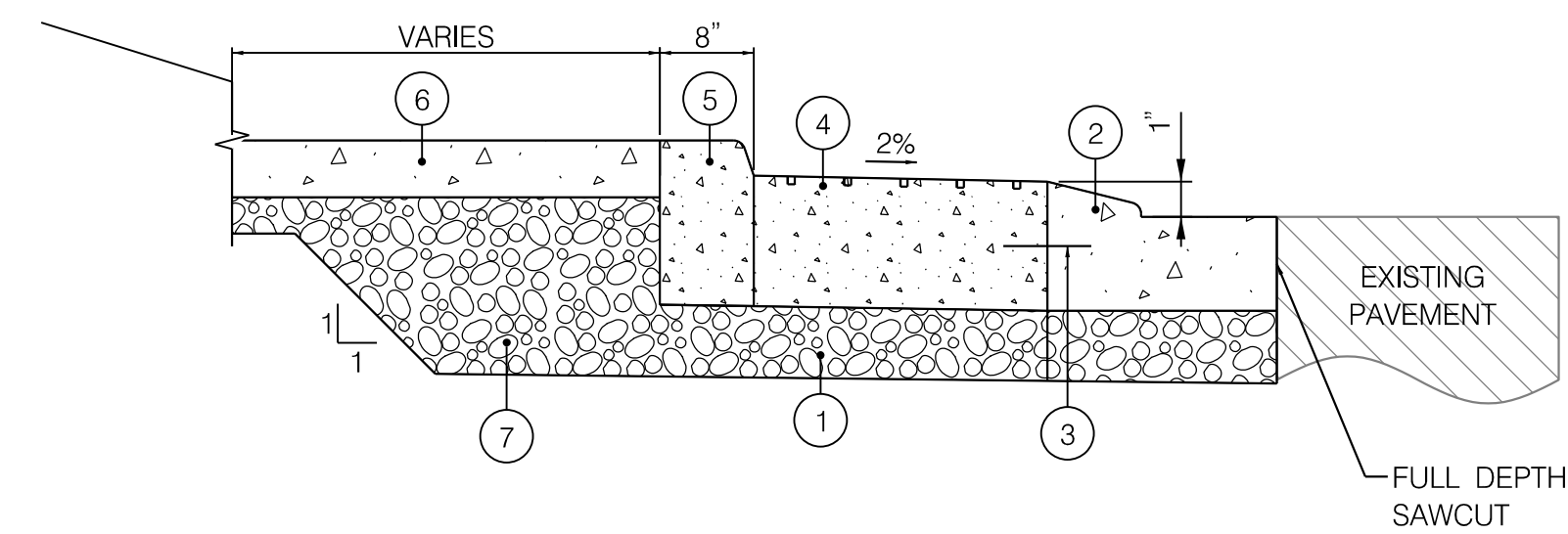
DETAIL B
MODIFIED TYPE D CURB



DETAIL C
VALLEY GUTTER



DETAIL D
TRUCK APRON - 1



DETAIL E
TRUCK APRON - 2

- ① 8 INCH GRADED AGGREGATE BASE, TWO EQUAL LAYERS
- ② STANDARD TYPE 'C' CURB, MDOT SHA STD. NO. 620.02-01
- ③ 1/2" LONGITUDINAL TIE DEVICE, 8" LENGTH 36" O.C."
- ④ 11 INCH STAMPED CONCRETE TRAFFIC BEARING PORTLAND CEMENT MIX
- ⑤ MODIFIED TYPE 'D' CURB, SEE DETAIL B ON DT-02
- ⑥ 5 INCH CONCRETE SIDEWALK, SEE DETAIL C ON DT-01
- ⑦ GRADED AGGREGATE BASE (VARIES)

- ① 8 INCH GRADED AGGREGATE BASE, TWO EQUAL LAYERS
- ② STANDARD TYPE 'C' CURB AND GUTTER, MDOT SHA STD. NO. 620.02-01
- ③ 1/2" LONGITUDINAL TIE DEVICE, 8" LENGTH 36" O.C."
- ④ 11 INCH STAMPED CONCRETE TRAFFIC BEARING PORTLAND CEMENT MIX
- ⑤ MODIFIED TYPE 'D' CURB, SEE DETAIL B ON DT-02
- ⑥ 5 INCH CONCRETE SIDEWALK, SEE DETAIL C ON DT-01
- ⑦ GRADED AGGREGATE BASE (VARIES)

DT-02

NO.	REVISION	BY	APP'D	DATE	DESIGNED BY: UMK	DATE: OCTOBER, 2023
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					DRAWING NO.:	DATE:
					RECOMMENDED FOR APPROVAL	
					Chief, Design Section	Date
					APPROVED	
					Chief, Division of Transportation Engineering	Date

DEPARTMENT OF TRANSPORTATION
DIVISION OF TRANSPORTATION ENGINEERING
MONTGOMERY COUNTY, MARYLAND

AMHERST AVE CYCLE TRACK
ROADWAY DETAILS

SCALE: N.T.S.

SHEET 12 of 208

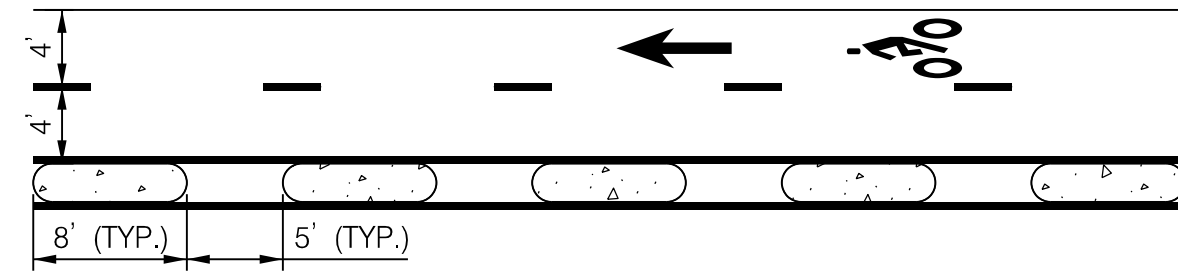
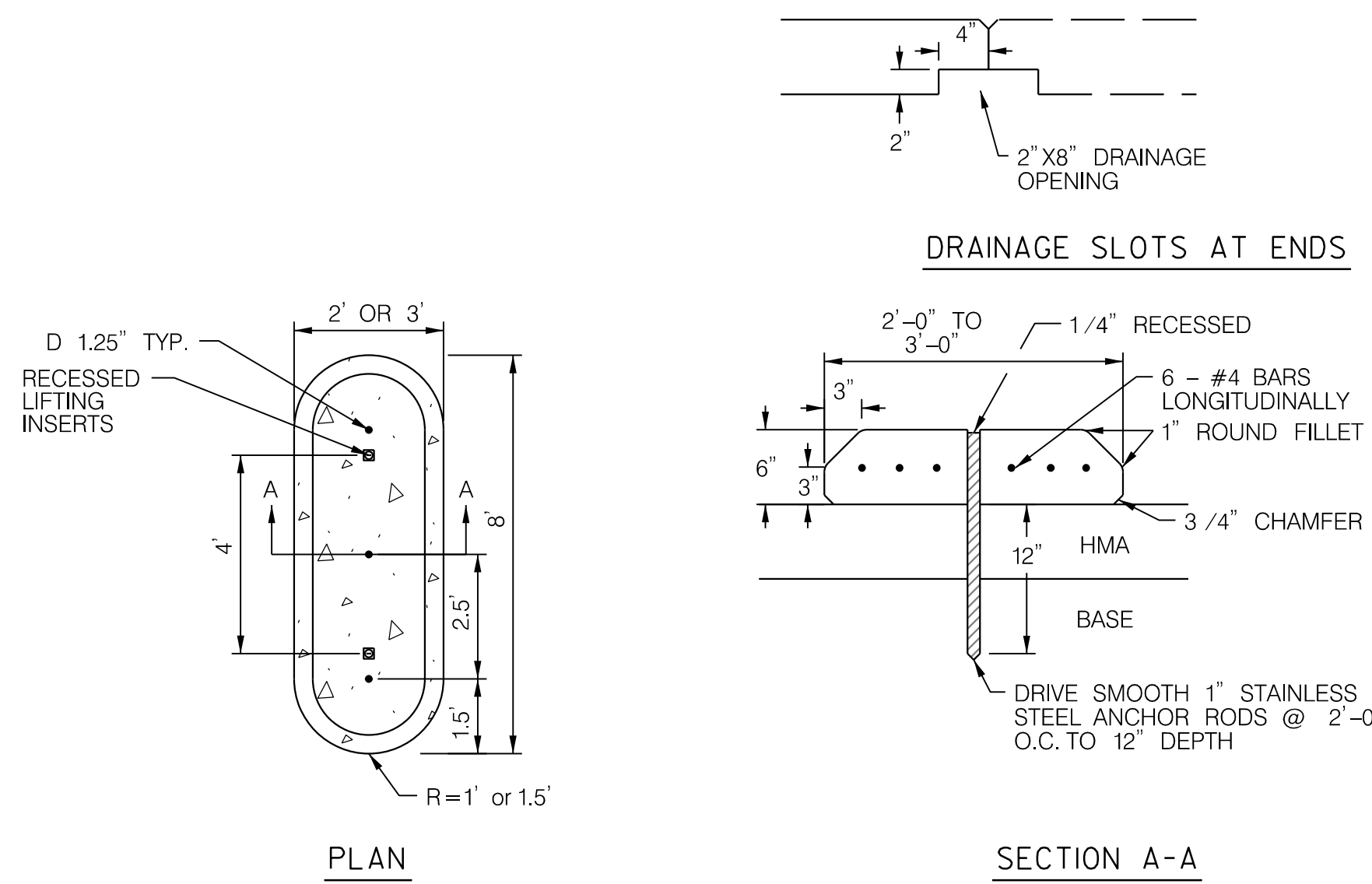


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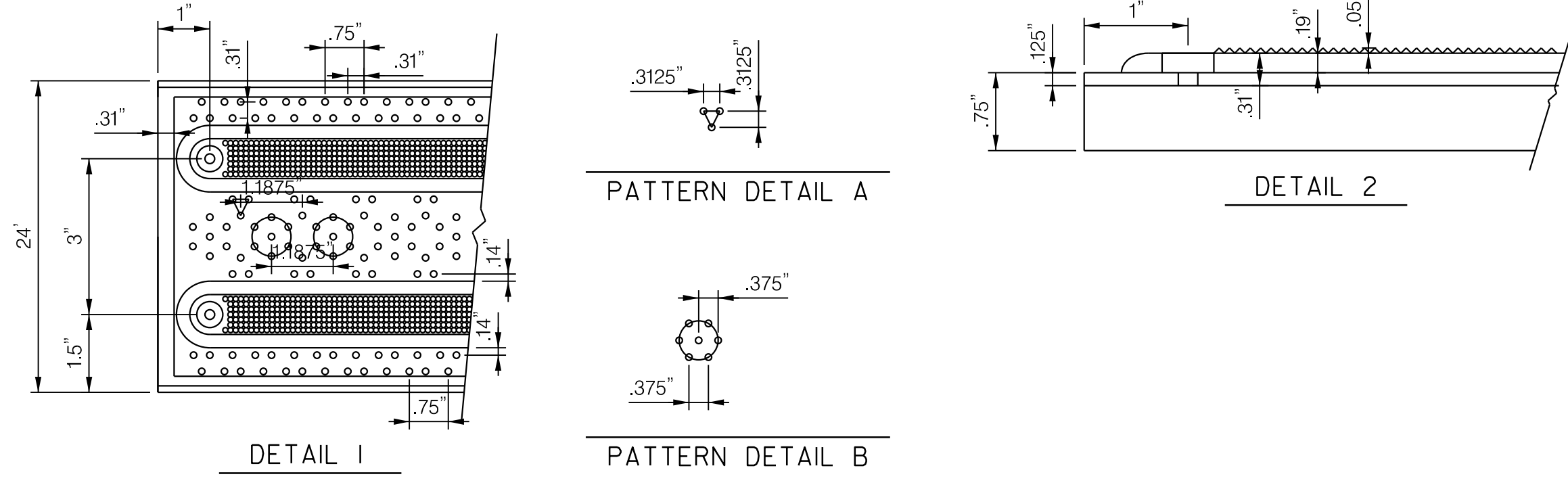
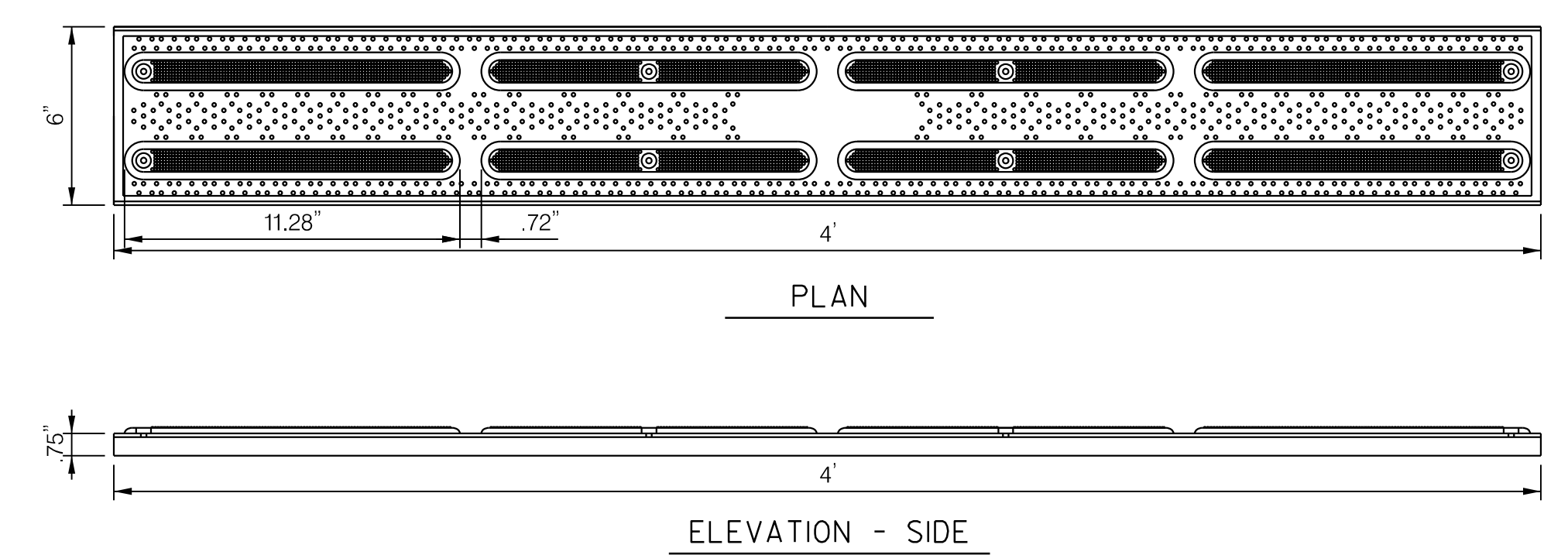
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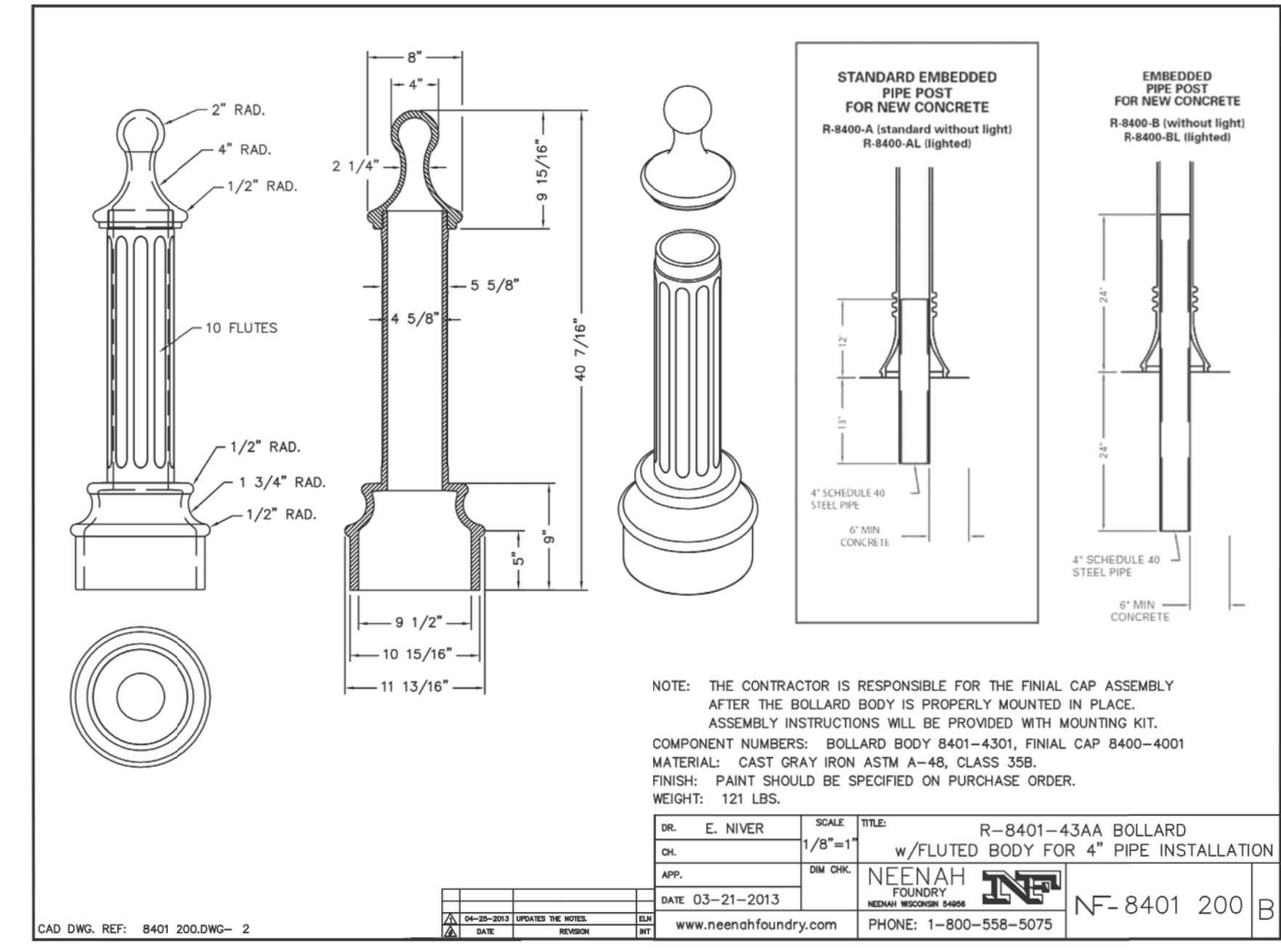


DETAIL B
 TYPICAL CYCLE TRACK

DETAIL A
 PRECAST CONCRETE
 CYCLE TRACK BARRIER CURB



DETAIL C
 DETECTABLE DIRECTIONAL STRIP



DETAIL D
 SILVER SPRING STREETSCAPE BOLLARDS

SILVER SPRING STREETSCAPE STANDARDS - DECEMBER 2019 75

NO.	REVISION	BY	APP'D	DATE	DESIGNED BY: UMK	DATE: OCTOBER, 2023
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					APPROVED	
					Chief, Division of Transportation Engineering	Date

DEPARTMENT OF TRANSPORTATION
 DIVISION OF TRANSPORTATION ENGINEERING
 MONTGOMERY COUNTY, MARYLAND

AMHERST AVE CYCLE TRACK
 PAVEMENT DETAILS

SCALE: N.T.S. SHEET 13 of 208

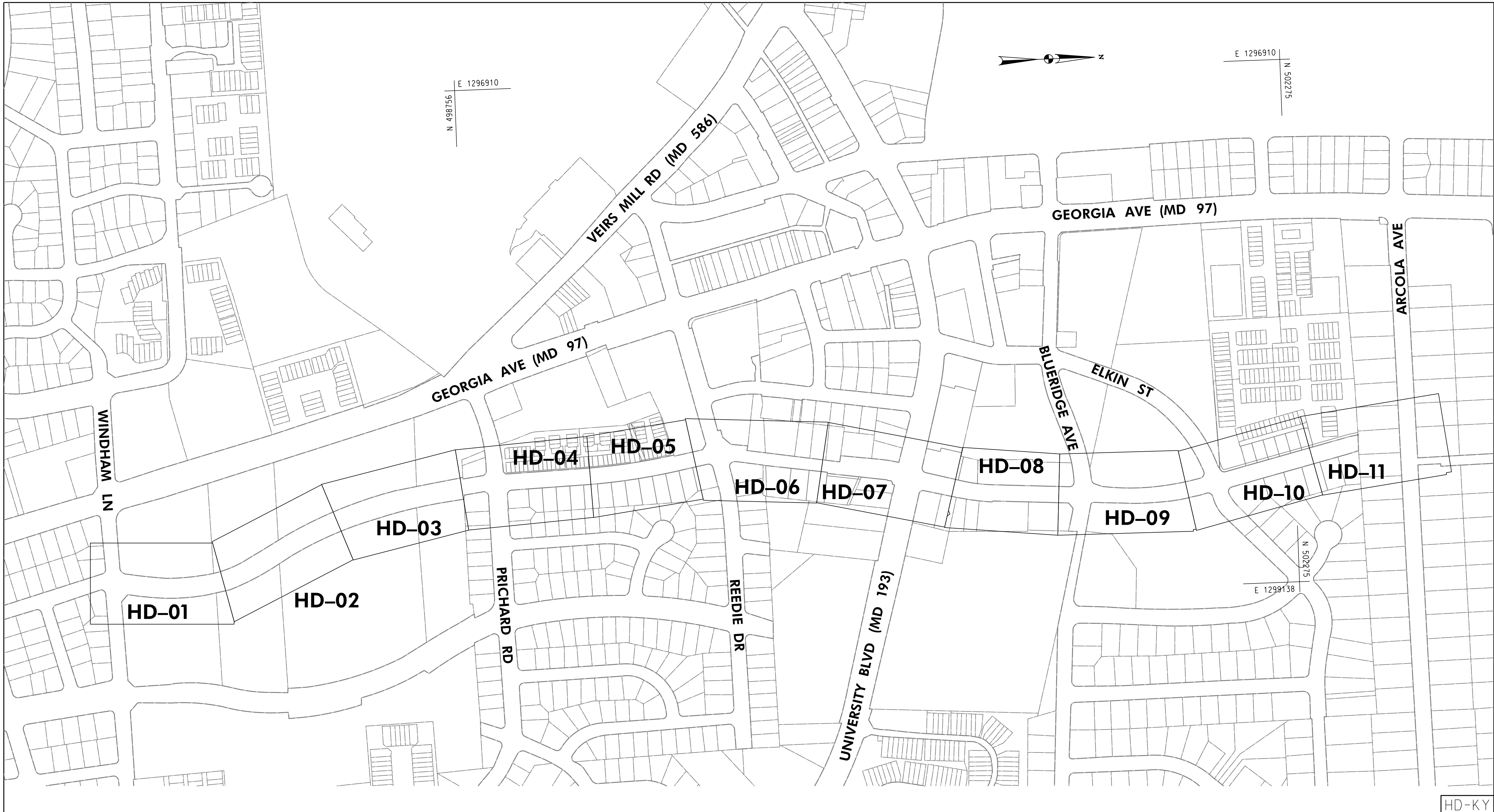


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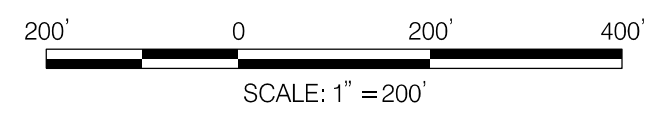


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DT-03



10/9/2023 UA:2026213141\700 CADD\700 Sheet\pHD-KEY_AmherstAve.dgn



NO.	REVISION	BY	APP'D	DATE

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Chief, Design Section _____	Date _____
APPROVED	
Chief, Division of Transportation Engineering _____	Date _____

DEPARTMENT OF TRANSPORTATION
DIVISION OF TRANSPORTATION ENGINEERING
MONTGOMERY COUNTY, MARYLAND

AMHERST AVE CYCLE TRACK
ROADWAY KEY PLAN

SCALE: 1"=200' SHEET 14 of 208

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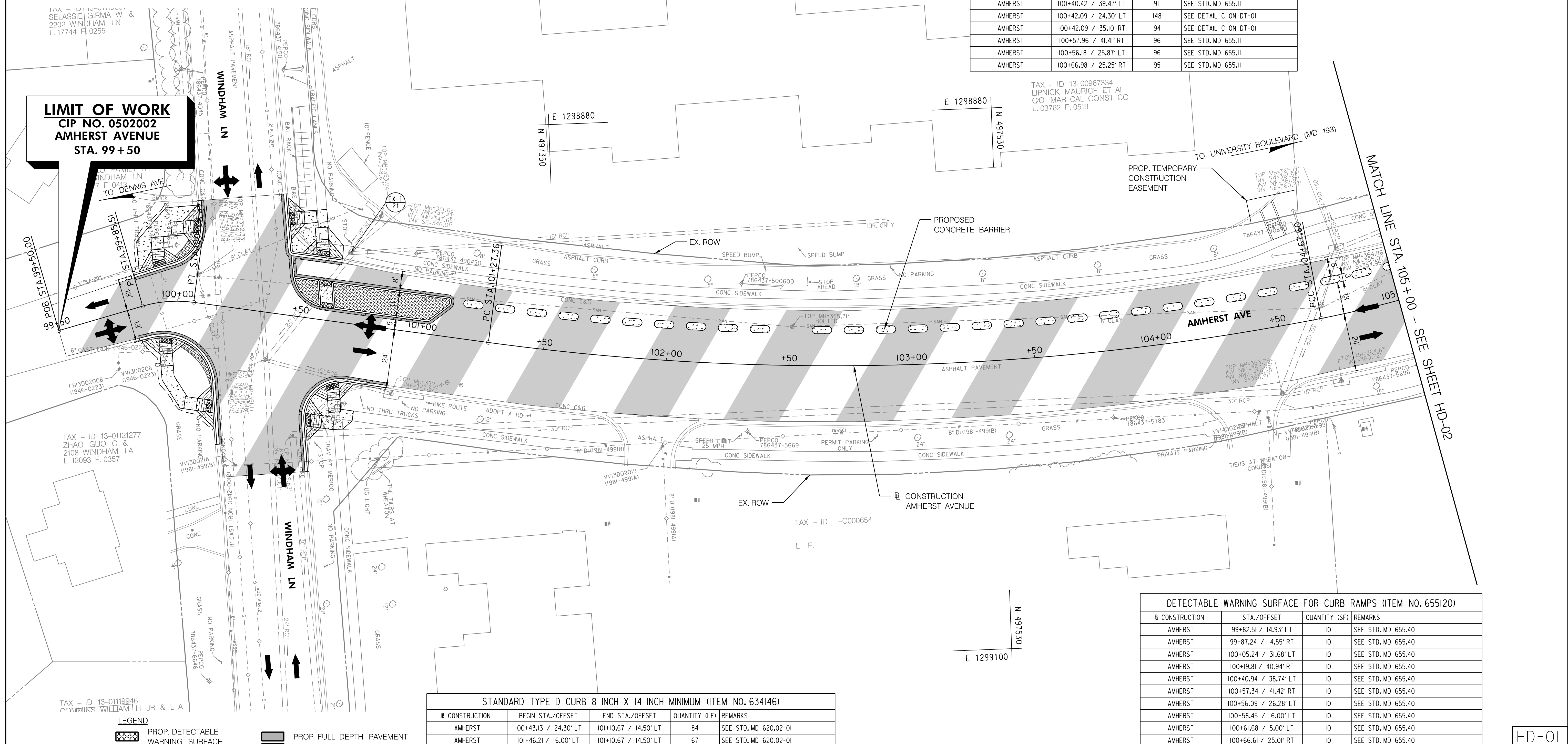
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PRECAST CONCRETE CYCLE TRACK BARRIER (ITEM NO. 600000-A)				
CONSTRUCTION	BEGIN STA./OFFSET	END STA./OFFSET	QUANTITY (LF)	REMARKS
AMHERST	100+79.00 / 13.00' LT	102+45.58 / 13.00' LT	80	SEE DETAIL A ON DT-03
AMHERST	102+57.75 / 13.00' LT	105+00.00 / 13.00' LT	144	SEE DETAIL A ON DT-03

COMBINATION CONCRETE CURB AND GUTTER TYPE A (ITEM NO. 600000-B)				
CONSTRUCTION	BEGIN STA./OFFSET	END STA./OFFSET	QUANTITY (LF)	REMARKS
AMHERST	99+42.27 / 8.44' LT	100+02.22 / 48.70' LT	47	SEE STD. MC-100.01; SEE STD. MD 620.03 FOR DEPRESSED CURB AT RAMP
AMHERST	99+36.11 / 18.04' RT	100+22.24 / 44.51' RT	66	SEE STD. MC-100.01; SEE STD. MD 620.03 FOR DEPRESSED CURB AT RAMP
AMHERST	100+38.55 / 45.05' LT	100+63.96 / 23.20' LT	45	SEE STD. MC-100.01; SEE STD. MD 620.03 FOR DEPRESSED CURB AT RAMP
AMHERST	100+61.84 / 59.83' RT	100+86.67 / 24.01' RT	64	SEE STD. MC-100.01; SEE STD. MD 620.03 FOR DEPRESSED CURB AT RAMP

5 INCH CONCRETE SIDEWALK (ITEM NO. 655105)				
CONSTRUCTION	STA./OFFSET	QUANTITY (SF)	REMARKS	
AMHERST	99+82.51 / 26.48' LT	193	SEE DETAIL C ON DT-01	
AMHERST	99+87.24 / 25.93' RT	86	SEE DETAIL C ON DT-01	
AMHERST	99+91.51 / 16.95' RT	94	SEE STD. MD 655.11	
AMHERST	99+94.72 / 17.49' LT	97	SEE STD. MD 655.11	
AMHERST	100+05.24 / 31.31' LT	93	SEE STD. MD 655.11	
AMHERST	100+19.29 / 40.94' RT	96	SEE STD. MD 655.11	
AMHERST	100+40.42 / 39.47' LT	91	SEE STD. MD 655.11	
AMHERST	100+42.09 / 24.30' LT	148	SEE DETAIL C ON DT-01	
AMHERST	100+42.09 / 35.10' RT	94	SEE DETAIL C ON DT-01	
AMHERST	100+57.96 / 41.41' RT	96	SEE STD. MD 655.11	
AMHERST	100+56.18 / 25.87' LT	96	SEE STD. MD 655.11	
AMHERST	100+66.98 / 25.25' RT	95	SEE STD. MD 655.11	

CONCRETE STEPS (ITEM NO. 697009)			
CONSTRUCTION	STA./OFFSET	QUANTITY (CY)	REMARKS
AMHERST	104+62.38 / 35.35' LT	5	SEE STD. MD 657.00

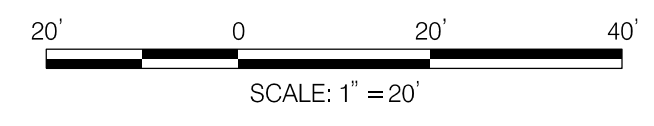


LIMIT OF WORK
CIP NO. 0502002
AMHERST AVENUE
STA. 99+50

STANDARD TYPE D CURB 8 INCH X 14 INCH MINIMUM (ITEM NO. 634146)				
CONSTRUCTION	BEGIN STA./OFFSET	END STA./OFFSET	QUANTITY (LF)	REMARKS
AMHERST	100+43.13 / 24.30' LT	101+10.67 / 14.50' LT	84	SEE STD. MD 620.02-01
AMHERST	101+46.21 / 16.00' LT	101+10.67 / 14.50' LT	67	SEE STD. MD 620.02-01

DETECTABLE WARNING SURFACE FOR CURB RAMPS (ITEM NO. 655120)			
CONSTRUCTION	STA./OFFSET	QUANTITY (SF)	REMARKS
AMHERST	99+82.51 / 14.93' LT	10	SEE STD. MD 655.40
AMHERST	99+87.24 / 14.55' RT	10	SEE STD. MD 655.40
AMHERST	100+05.24 / 31.68' LT	10	SEE STD. MD 655.40
AMHERST	100+19.81 / 40.94' RT	10	SEE STD. MD 655.40
AMHERST	100+40.94 / 38.74' LT	10	SEE STD. MD 655.40
AMHERST	100+57.34 / 41.42' RT	10	SEE STD. MD 655.40
AMHERST	100+56.09 / 26.28' LT	10	SEE STD. MD 655.40
AMHERST	100+58.45 / 16.00' LT	10	SEE STD. MD 655.40
AMHERST	100+61.68 / 5.00' LT	10	SEE STD. MD 655.40
AMHERST	100+66.61 / 25.01' RT	10	SEE STD. MD 655.40

- LEGEND**
- PROP. DETECTABLE WARNING SURFACE
 - PROP. CONCRETE
 - PROP. PERMEABLE PAVERS
 - PROP. BRICK
 - PROP. MILL & OVERLAY
 - PROP. FULL DEPTH PAVEMENT
 - PROP. FULL DEPTH CYCLE TRACK
 - PROP. CONCRETE CURB PATCH
 - PROP. STAMPED CONCRETE
 - PAVEMENT REMOVAL



NO.	REVISION	BY	APP'D	DATE

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DEPARTMENT OF TRANSPORTATION
DIVISION OF TRANSPORTATION ENGINEERING
MONTGOMERY COUNTY, MARYLAND

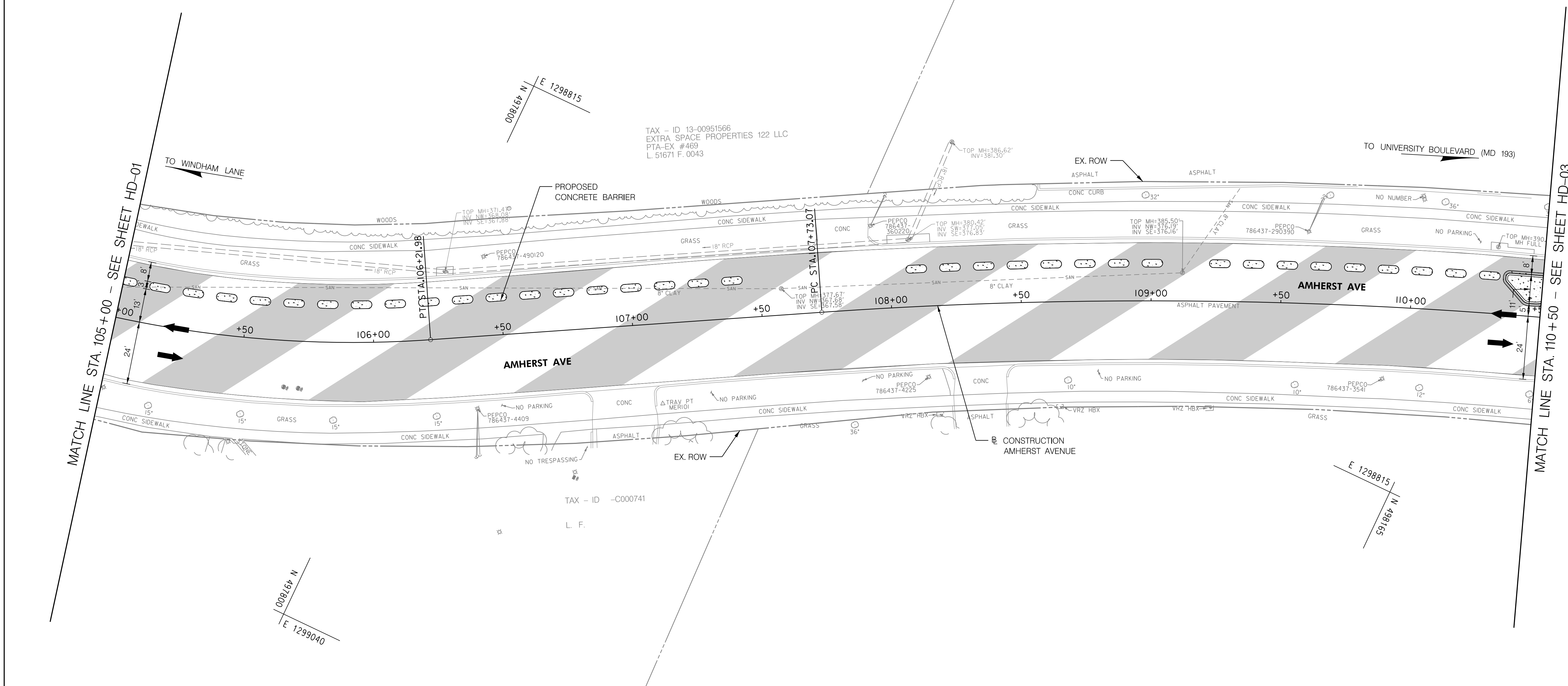
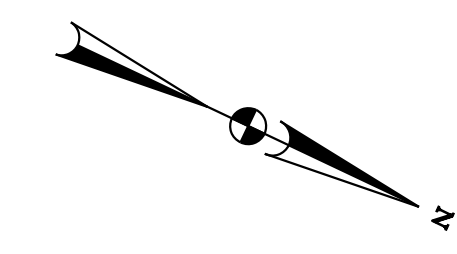
AMHERST AVE CYCLE TRACK
ROADWAY PLAN

SCALE: 1"=20' SHEET 15 of 208

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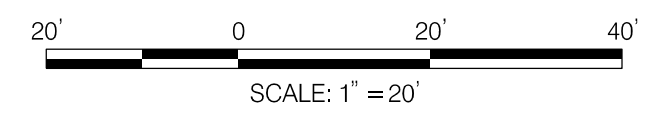
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LICENSE NO: _____ EXPIRATION DATE: _____

PRECAST CONCRETE CYCLE TRACK BARRIER (ITEM NO. 600000-A)				
CONSTRUCTION	BEGIN STA./OFFSET	END STA./OFFSET	QUANTITY (LF)	REMARKS
AMHERST	105+00.00 / 13.00' LT	107+61.95 / 13.00' LT	160	SEE DETAIL A ON DT-03
AMHERST	108+04.78 / 13.00' LT	110+47.30 / 13.00' LT	152	SEE DETAIL A ON DT-03



LEGEND

	PROP. DETECTABLE WARNING SURFACE		PROP. FULL DEPTH PAVEMENT
	PROP. CONCRETE		PROP. FULL DEPTH CYCLE TRACK
	PROP. PERMEABLE PAVERS		PROP. CONCRETE CURB PATCH
	PROP. BRICK		PROP. STAMPED CONCRETE
	PROP. MILL & OVERLAY		PAVEMENT REMOVAL



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DEPARTMENT OF TRANSPORTATION
 DIVISION OF TRANSPORTATION ENGINEERING
 MONTGOMERY COUNTY, MARYLAND

AMHERST AVE CYCLE TRACK
 ROADWAY PLAN

SCALE: 1"=20' SHEET 16 of 208

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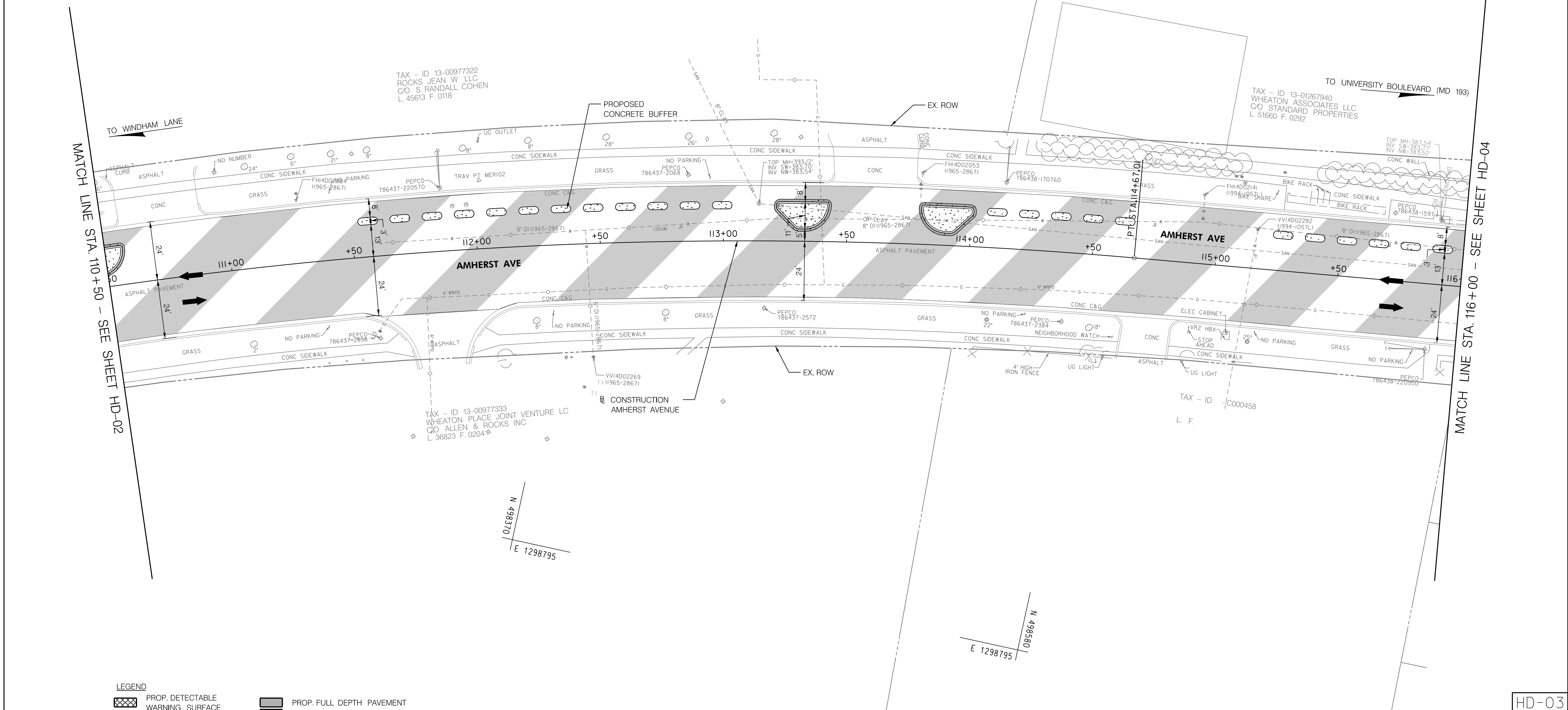
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HD-02

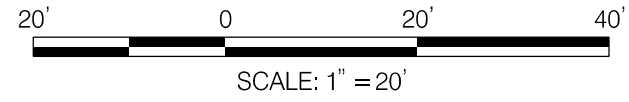
PRECAST CONCRETE CYCLE TRACK BARRIER (ITEM NO. 600000-A)				
CONSTRUCTION	BEGIN STA./OFFSET	END STA./OFFSET	QUANTITY (LF)	REMARKS
AMHERST	111+51.60 / 13.00' LT	113+09.94 / 13.00' LT	96	SEE DETAIL A ON DT-03
AMHERST	113+89.36 / 13.00' LT	114+72.98 / 13.00' LT	48	SEE DETAIL A ON DT-03
AMHERST	115+22.48 / 13.00' LT	116+00.00 / 13.00' LT	48	SEE DETAIL A ON DT-03

STANDARD TYPE D CURB 8 INCH X 14 INCH MINIMUM (ITEM NO. 634146)				
CONSTRUCTION	BEGIN STA./OFFSET	END STA./OFFSET	QUANTITY (LF)	REMARKS
AMHERST	110+35.79 / 16.00' LT	110+57.12 / 16.00' LT	55	SEE STD. MD 620.02-01
AMHERST	113+21.59 / 16.00' LT	113+42.65 / 16.00' LT	55	SEE STD. MD 620.02-01
AMHERST	113+79.97 / 16.00' LT	114+01.03 / 16.00' LT	55	SEE STD. MD 620.02-01

5 INCH CONCRETE SIDEWALK (ITEM NO. 655105)			
CONSTRUCTION	STA./OFFSET	QUANTITY (SF)	REMARKS
AMHERST	110+35.79 / 16.00' LT	150	SEE DETAIL C ON DT-01
AMHERST	113+21.59 / 16.00' LT	150	SEE DETAIL C ON DT-01
AMHERST	113+79.97 / 16.00' LT	150	SEE DETAIL C ON DT-01



LEGEND	
	PROP. DETECTABLE WARNING SURFACE
	PROP. CONCRETE
	PROP. PERMEABLE PAVERS
	PROP. BRICK
	PROP. MILL & OVERLAY
	PROP. FULL DEPTH PAVEMENT
	PROP. FULL DEPTH CYCLE TRACK
	PROP. CONCRETE CURB PATCH
	PROP. STAMPED CONCRETE
	PAVEMENT REMOVAL



NO.	REVISION	BY	APP'D	DATE

DESIGNED BY: UMK	DATE: OCTOBER, 2023
DRAWN BY: UMK	DATE: OCTOBER, 2023
CHECKED BY: SJZ	DATE: OCTOBER, 2023
DRAWING NO.:	DATE:

RECOMMENDED FOR APPROVAL

Chief, Design Section _____ Date _____

APPROVED

Chief, Division of Transportation Engineering _____ Date _____

DEPARTMENT OF TRANSPORTATION
 DIVISION OF TRANSPORTATION ENGINEERING
 MONTGOMERY COUNTY, MARYLAND

AMHERST AVE CYCLE TRACK
 ROADWAY PLAN

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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.
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HD-03

10/9/2023
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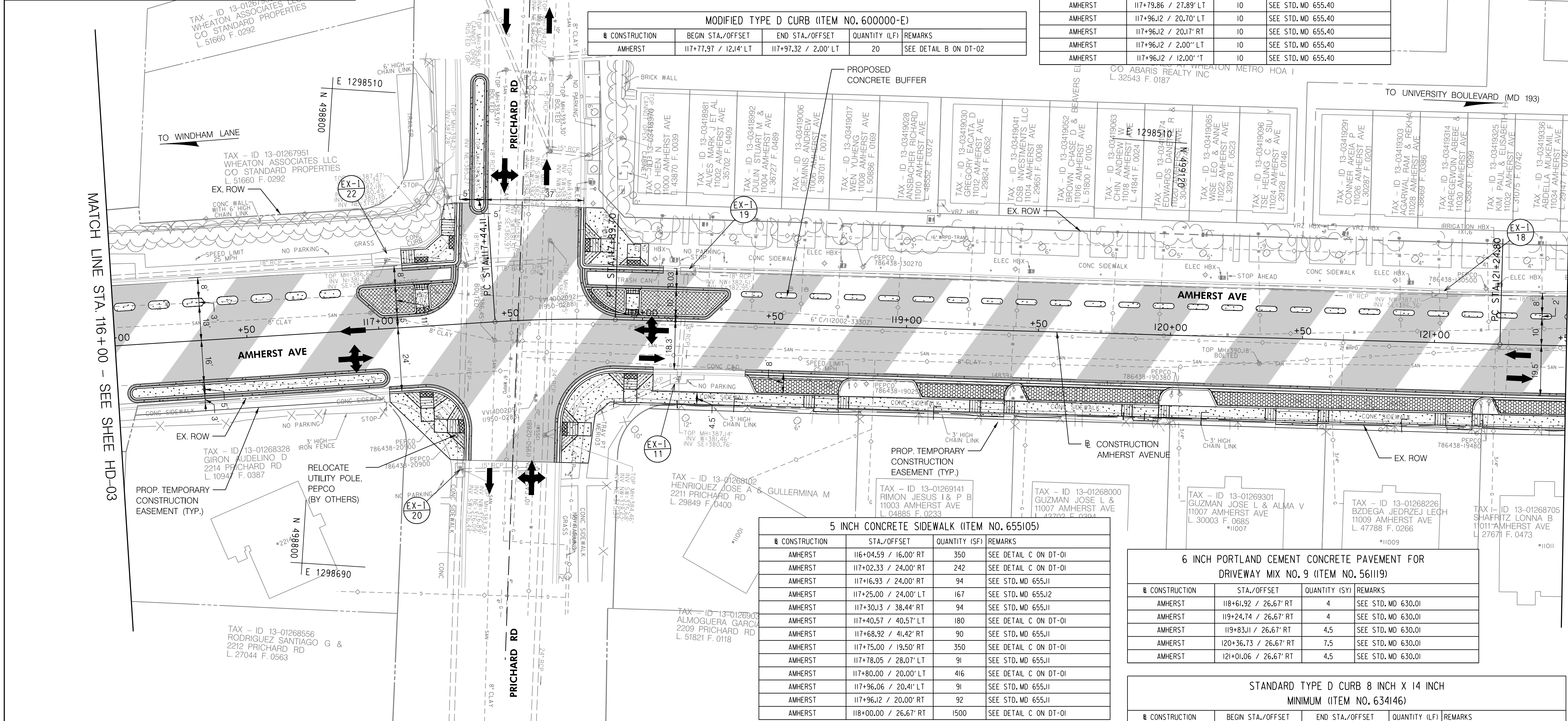
PRECAST CONCRETE CYCLE TRACK BARRIER (ITEM NO. 600000-A)				
CONSTRUCTION	BEGIN STA./OFFSET	END STA./OFFSET	QUANTITY (LF)	REMARKS
AMHERST	116+00.00 / 13.00' LT	117+01.34 / 13.00' LT	56	SEE DETAIL A ON DT-03
AMHERST	118+09.77 / 9.00' LT	121+50.00 / 9.00' LT	192	SEE DETAIL A ON DT-03

11 INCH STAMPED CONCRETE (ITEM NO. 500000-C)				
CONSTRUCTION	BEGIN STA./OFFSET	QUANTITY (SF)	REMARKS	
AMHERST	117+84.92 / 5.00' LT	20	SEE DETAIL D ON DT-02	

COMBINATION CONCRETE CURB AND GUTTER TYPE A (ITEM NO. 600000-B)				
CONSTRUCTION	BEGIN STA./OFFSET	END STA./OFFSET	QUANTITY (LF)	REMARKS
AMHERST	117+10.24 / 23.34' LT	117+32.55 / 45.53' LT	43	SEE STD. MC-100.01; SEE STD. MD 620.03 FOR DEPRESSED CURB AT RAMP
AMHERST	117+02.63 / 23.98' RT	117+29.80 / 51.58' RT	50	SEE STD. MC-100.01; SEE STD. MD 620.03 FOR DEPRESSED CURB AT RAMP
AMHERST	117+67.71 / 53.25' RT	118+04.56 / 19.50' RT	62	SEE STD. MC-100.01; SEE STD. MD 620.03 FOR DEPRESSED CURB AT RAMP
AMHERST	117+77.63 / 42.25' LT	118+04.56 / 20' LT	52	SEE STD. MC-100.01; SEE STD. MD 620.03 FOR DEPRESSED CURB AT RAMP
AMHERST	118+79.92 / 19.50' RT	119+02.76 / 19.50' RT	23	SEE STD. MC-100.01; SEE STD. MD 620.03 FOR DEPRESSED CURB AT RAMP
AMHERST	120+01.32 / 19.50' RT	120+14.24 / 19.50' RT	13	SEE STD. MC-100.01; SEE STD. MD 620.03 FOR DEPRESSED CURB AT RAMP

DETECTABLE WARNING SURFACE FOR CURB RAMP (ITEM NO. 655120)				
CONSTRUCTION	STA./OFFSET	QUANTITY (SF)	REMARKS	
AMHERST	117+16.13 / 16.30' RT	10	SEE STD. MD 655.40	
AMHERST	117+16.13 / 5.00' LT	10	SEE STD. MD 655.40	
AMHERST	117+16.13 / 16.00' LT	10	SEE STD. MD 655.40	
AMHERST	117+16.13 / 24.00' LT	10	SEE STD. MD 655.40	
AMHERST	117+29.80 / 35.49' RT	10	SEE STD. MD 655.40	
AMHERST	117+69.08 / 38.19' RT	10	SEE STD. MD 655.40	
AMHERST	117+79.86 / 27.89' LT	10	SEE STD. MD 655.40	
AMHERST	117+96.12 / 20.70' LT	10	SEE STD. MD 655.40	
AMHERST	117+96.12 / 20.17' RT	10	SEE STD. MD 655.40	
AMHERST	117+96.12 / 2.00' LT	10	SEE STD. MD 655.40	
AMHERST	117+96.12 / 12.00' LT	10	SEE STD. MD 655.40	

MODIFIED TYPE D CURB (ITEM NO. 600000-E)				
CONSTRUCTION	BEGIN STA./OFFSET	END STA./OFFSET	QUANTITY (LF)	REMARKS
AMHERST	117+77.97 / 12.14' LT	117+97.32 / 2.00' LT	20	SEE DETAIL B ON DT-02



STANDARD TYPE C CURB 8 INCH X 11 INCH MINIMUM (ITEM NO. 634131)				
CONSTRUCTION	BEGIN STA./OFFSET	END STA./OFFSET	QUANTITY (LF)	REMARKS
AMHERST	117+77.97 / 12.14' LT	117+97.32 / 2.00' LT	28	SEE STD. MD 620.02-01

5 INCH CONCRETE SIDEWALK (ITEM NO. 655105)				
CONSTRUCTION	STA./OFFSET	QUANTITY (SF)	REMARKS	
AMHERST	116+04.59 / 16.00' RT	350	SEE DETAIL C ON DT-01	
AMHERST	117+02.33 / 24.00' RT	242	SEE DETAIL C ON DT-01	
AMHERST	117+16.93 / 24.00' RT	94	SEE STD. MD 655.11	
AMHERST	117+25.00 / 24.00' LT	167	SEE STD. MD 655.12	
AMHERST	117+30.13 / 38.44' RT	94	SEE STD. MD 655.11	
AMHERST	117+40.57 / 40.57' LT	180	SEE DETAIL C ON DT-01	
AMHERST	117+68.92 / 41.42' RT	90	SEE STD. MD 655.11	
AMHERST	117+75.00 / 19.50' RT	350	SEE DETAIL C ON DT-01	
AMHERST	117+78.05 / 28.07' LT	91	SEE STD. MD 655.11	
AMHERST	117+80.00 / 20.00' LT	416	SEE DETAIL C ON DT-01	
AMHERST	117+96.06 / 20.41' LT	91	SEE STD. MD 655.11	
AMHERST	117+96.12 / 20.00' RT	92	SEE STD. MD 655.11	
AMHERST	118+00.00 / 26.67' RT	1500	SEE DETAIL C ON DT-01	

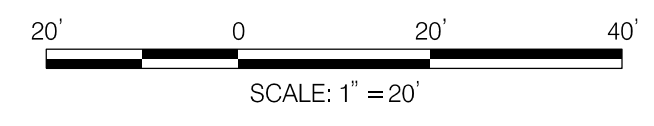
6 INCH PORTLAND CEMENT CONCRETE PAVEMENT FOR DRIVEWAY MIX NO. 9 (ITEM NO. 561119)				
CONSTRUCTION	STA./OFFSET	QUANTITY (SY)	REMARKS	
AMHERST	118+61.92 / 26.67' RT	4	SEE STD. MD 630.01	
AMHERST	119+24.74 / 26.67' RT	4	SEE STD. MD 630.01	
AMHERST	119+83.11 / 26.67' RT	4.5	SEE STD. MD 630.01	
AMHERST	120+36.73 / 26.67' RT	7.5	SEE STD. MD 630.01	
AMHERST	121+01.06 / 26.67' RT	4.5	SEE STD. MD 630.01	

STANDARD TYPE D CURB 8 INCH X 14 INCH MINIMUM (ITEM NO. 634146)				
CONSTRUCTION	BEGIN STA./OFFSET	END STA./OFFSET	QUANTITY (LF)	REMARKS
AMHERST	116+91.48 / 16.00' LT	117+30.64 / 30.27' LT	115	SEE STD. MD 620.02-01
AMHERST	117+38.26 / 44.67' LT	117+53.25 / 44.67' LT	110	SEE STD. MD 620.02-01
AMHERST	117+80.29 / 12.00' LT	118+32.10 / 12.00' LT	134	SEE STD. MD 620.02-01
AMHERST	118+39.43 / 19.50' RT	118+79.92 / 19.50' RT	50	SEE STD. MD 620.02-01
AMHERST	119+02.27 / 19.50' RT	120+01.32 / 19.50' RT	116	SEE STD. MD 620.02-01
AMHERST	120+14.24 / 19.50' RT	121+50.00 / 26.00' RT	150	SEE STD. MD 620.02-01

CONCRETE VALLEY GUTTER (ITEM NO. 600000-F)				
CONSTRUCTION	BEGIN STA./OFFSET	END STA./OFFSET	QUANTITY (LF)	REMARKS
AMHERST	118+39.73 / 19.50' RT	118+79.95 / 19.50' RT	40	SEE DETAIL C ON DT-02
AMHERST	119+02.27 / 19.50' RT	120+01.32 / 19.50' RT	98	SEE DETAIL C ON DT-02
AMHERST	120+14.24 / 19.50' RT	121+50.00 / 19.50' RT	136	SEE DETAIL C ON DT-02

LEGEND

	PROP. DETECTABLE WARNING SURFACE		PROP. FULL DEPTH PAVEMENT
	PROP. CONCRETE		PROP. PERMEABLE PAVERS
	PROP. BRICK		PROP. STAMPED CONCRETE
	PROP. MILL & OVERLAY		PROP. CONCRETE CURB PATCH
			PAVEMENT REMOVAL



NO.	REVISION	BY	APP'D	DATE	DESIGNED BY: UMK	DATE: OCTOBER, 2023
					DRAWN BY: UMK	DATE: OCTOBER, 2023
					CHECKED BY: SJZ	DATE: OCTOBER, 2023
					DRAWING NO.:	DATE:
RECOMMENDED FOR APPROVAL						
					Chief, Design Section	Date
APPROVED						
					Chief, Division of Transportation Engineering	Date

DEPARTMENT OF TRANSPORTATION
DIVISION OF TRANSPORTATION ENGINEERING
MONTGOMERY COUNTY, MARYLAND

AMHERST AVE CYCLE TRACK
 ROADWAY PLAN



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 LICENSE NO: _____ EXPIRATION DATE: _____

810 Gleneagles Court, Suite 300
 Baltimore, MD 21286
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PRECAST CONCRETE CYCLE TRACK BARRIER (ITEM NO. 600000-A)				
CONSTRUCTION	BEGIN STA./OFFSET	END STA./OFFSET	QUANTITY (LF)	REMARKS
AMHERST	121+50.00 / 9.00' LT	123+08.71 / 9.00' LT	96	SEE DETAIL A ON DT-03
AMHERST	123+89.97 / 9.00' LT	125+47.38 / 9.00' LT	72	SEE DETAIL A ON DT-03
AMHERST	125+46.85 / 9.00' LT	126+00.00 / 9.00' LT	32	SEE DETAIL A ON DT-03

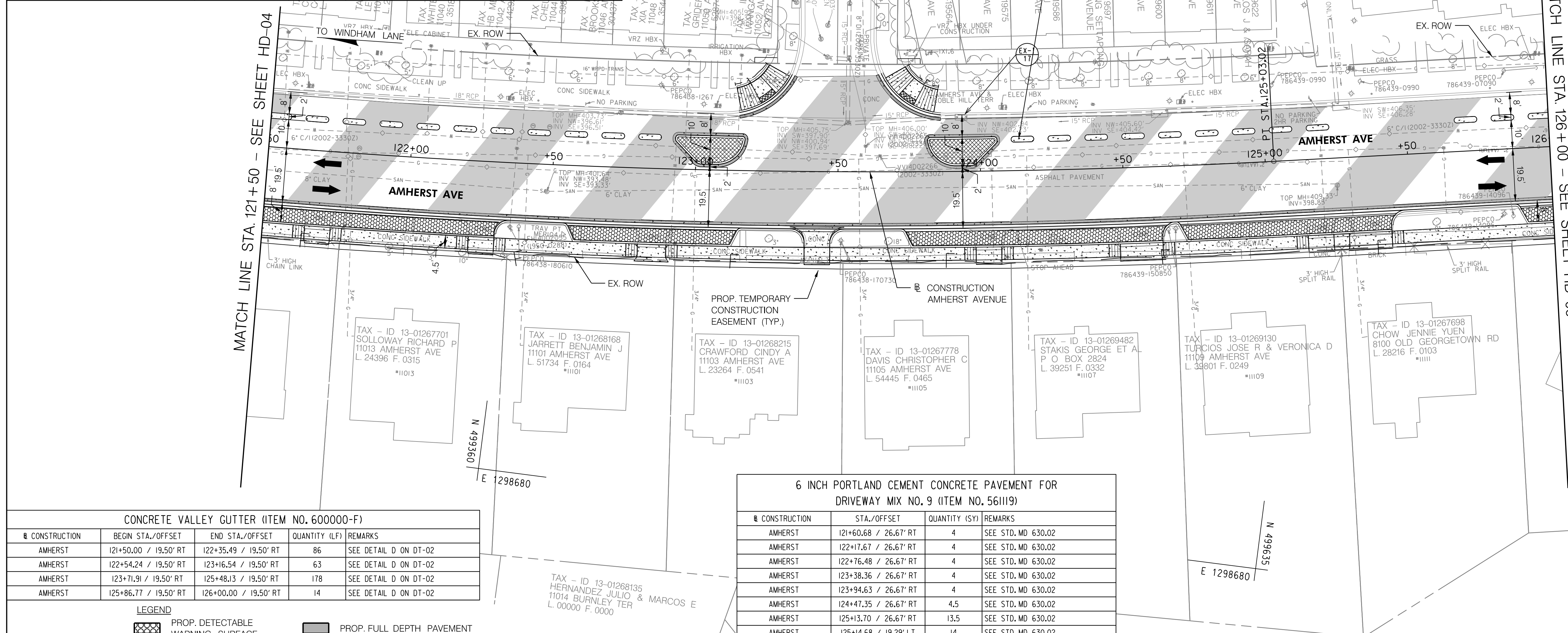
5 INCH CONCRETE SIDEWALK (ITEM NO. 655105)			
CONSTRUCTION	STA./OFFSET	QUANTITY (SF)	REMARKS
AMHERST	121+60.68 / 26.67' RT	32	SEE DETAIL C ON DT-01
AMHERST	122+17.67 / 26.67' RT	32	SEE DETAIL C ON DT-01
AMHERST	122+76.48 / 26.67' RT	36	SEE DETAIL C ON DT-01
AMHERST	123+15.77 / 20.49' LT	143	SEE STD. MD 655.12
AMHERST	121+50.00 / 26.67' RT	1600	SEE DETAIL C ON DT-01
AMHERST	123+66.74 / 32.95' LT	143	SEE STD. MD 655.12

DEPRESSED CURB ENTRANCE (ITEM NO. 600000-C)				
CONSTRUCTION	BEGIN STA./OFFSET	END STA./OFFSET	QUANTITY (LF)	REMARKS
AMHERST	125+14.68 / 19.29' LT	125+36.54 / 19.29' LT	22	SEE STD. MC-102.01

DETECTABLE WARNING SURFACE FOR CURB RAMPS (ITEM NO. 655120)			
CONSTRUCTION	STA./OFFSET	QUANTITY (SF)	REMARKS
AMHERST	123+25.37 / 25.39' LT	10	SEE STD. MD 655.40
AMHERST	123+73.53 / 25.39' LT	10	SEE STD. MD 655.40

STANDARD TYPE D CURB 8 INCH X 14 INCH MINIMUM (ITEM NO. 634146)				
CONSTRUCTION	BEGIN STA./OFFSET	END STA./OFFSET	QUANTITY (LF)	REMARKS
AMHERST	121+50.00 / 19.50' RT	122+35.49 / 19.50' RT	91	SEE STD. MD 620.02-01
AMHERST	122+54.24 / 19.50' RT	123+16.54 / 19.50' RT	71	SEE STD. MD 620.02-01
AMHERST	123+92.74 / 12.00' LT	123+17.20 / 12.00' LT	59	SEE STD. MD 620.02-01
AMHERST	123+71.91 / 19.50' RT	125+48.13 / 19.50' RT	194	SEE STD. MD 620.02-01
AMHERST	123+81.48 / 12.00' LT	124+06.95 / 12.00' LT	59	SEE STD. MD 620.02-01
AMHERST	125+86.77 / 19.50' RT	126+00.00 / 26.00' RT	17	SEE STD. MD 620.02-01

COMBINATION CONCRETE CURB AND GUTTER TYPE A (ITEM NO. 600000-B)				
CONSTRUCTION	BEGIN STA./OFFSET	END STA./OFFSET	QUANTITY (LF)	REMARKS
AMHERST	122+35.49 / 19.50' RT	122+54.24 / 19.50' RT	20	SEE STD. MC-100.01; SEE STD. MD 620.03 FOR DEPRESSED CURB AT RAMPS
AMHERST	123+18.36 / 20.49' LT	123+34.23 / 35.44' LT	25	SEE STD. MC-100.01; SEE STD. MD 620.03 FOR DEPRESSED CURB AT RAMPS
AMHERST	123+16.54 / 19.50' RT	123+71.91 / 19.50' RT	56	SEE STD. MC-100.01; SEE STD. MD 620.03 FOR DEPRESSED CURB AT RAMPS
AMHERST	123+64.61 / 35.82' LT	123+83.32 / 20.32' LT	25	SEE STD. MC-100.01; SEE STD. MD 620.03 FOR DEPRESSED CURB AT RAMPS
AMHERST	125+36.54 / 19.29' LT	125+56.73 / 19.40' LT	20	SEE STD. MC-100.01; SEE STD. MD 620.03 FOR DEPRESSED CURB AT RAMPS
AMHERST	125+48.13 / 19.50' RT	125+86.77 / 19.50' RT	17	SEE STD. MC-100.01; SEE STD. MD 620.03 FOR DEPRESSED CURB AT RAMPS



CONCRETE VALLEY GUTTER (ITEM NO. 600000-F)				
CONSTRUCTION	BEGIN STA./OFFSET	END STA./OFFSET	QUANTITY (LF)	REMARKS
AMHERST	121+50.00 / 19.50' RT	122+35.49 / 19.50' RT	86	SEE DETAIL D ON DT-02
AMHERST	122+54.24 / 19.50' RT	123+16.54 / 19.50' RT	63	SEE DETAIL D ON DT-02
AMHERST	123+71.91 / 19.50' RT	125+48.13 / 19.50' RT	178	SEE DETAIL D ON DT-02
AMHERST	125+86.77 / 19.50' RT	126+00.00 / 19.50' RT	14	SEE DETAIL D ON DT-02

LEGEND

	PROP. DETECTABLE WARNING SURFACE		PROP. FULL DEPTH PAVEMENT
	PROP. CONCRETE		PROP. FULL DEPTH CYCLE TRACK
	PROP. PERMEABLE PAVERS		PROP. CONCRETE CURB PATCH
	PROP. BRICK		PROP. STAMPED CONCRETE
	PROP. MILL & OVERLAY		PAVEMENT REMOVAL

6 INCH PORTLAND CEMENT CONCRETE PAVEMENT FOR DRIVEWAY MIX NO. 9 (ITEM NO. 561119)			
CONSTRUCTION	STA./OFFSET	QUANTITY (SY)	REMARKS
AMHERST	121+60.68 / 26.67' RT	4	SEE STD. MD 630.02
AMHERST	122+17.67 / 26.67' RT	4	SEE STD. MD 630.02
AMHERST	122+76.48 / 26.67' RT	4	SEE STD. MD 630.02
AMHERST	123+38.36 / 26.67' RT	4	SEE STD. MD 630.02
AMHERST	123+94.63 / 26.67' RT	4	SEE STD. MD 630.02
AMHERST	124+47.35 / 26.67' RT	4.5	SEE STD. MD 630.02
AMHERST	125+13.70 / 26.67' RT	13.5	SEE STD. MD 630.02
AMHERST	125+14.68 / 19.29' LT	14	SEE STD. MD 630.02

NO.	REVISION	BY	APP'D	DATE

DESIGNED BY: UMK	DATE: OCTOBER, 2023
DRAWN BY: UMK	DATE: OCTOBER, 2023
CHECKED BY: SJZ	DATE: OCTOBER, 2023
DRAWING NO.:	DATE:

RECOMMENDED FOR APPROVAL

Chief, Design Section	Date
APPROVED	
Chief, Division of Transportation Engineering	Date

DEPARTMENT OF TRANSPORTATION
DIVISION OF TRANSPORTATION ENGINEERING
MONTGOMERY COUNTY, MARYLAND

AMHERST AVE CYCLE TRACK
ROADWAY PLAN



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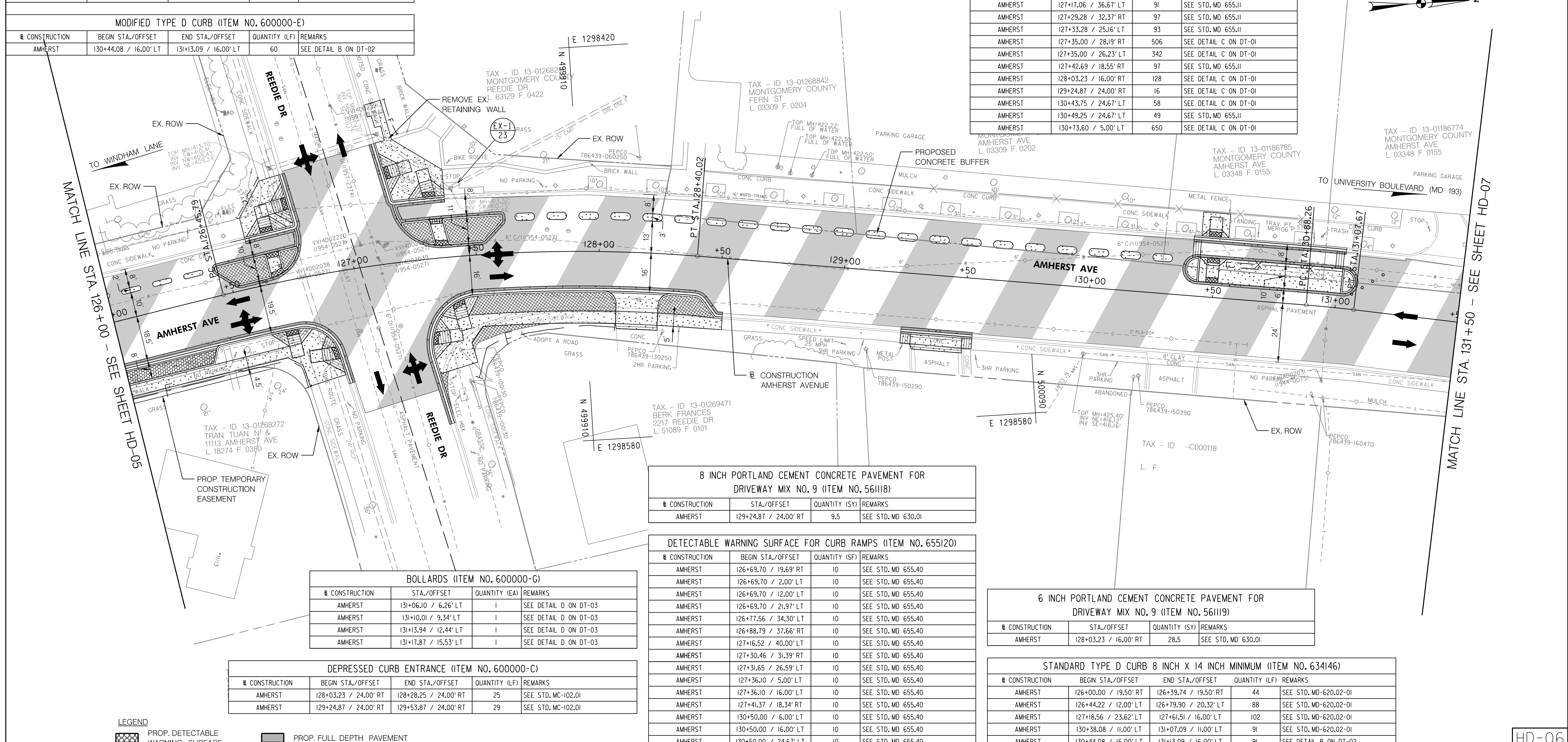
PRECAST CONCRETE CYCLE TRACK BARRIER (ITEM NO. 600000-A)				
CONSTRUCTION	BEGIN STA./OFFSET	END STA./OFFSET	QUANTITY (LF)	REMARKS
AMHERST	126+00.00 / 10.00' LT	126+55.13 / 10.00' LT	24	SEE DETAIL A ON DT-03
AMHERST	127+48.12 / 13.00' LT	130+72.06 / 13.00' LT	168	SEE DETAIL A ON DT-03

COMBINATION CONCRETE CURB AND GUTTER TYPE A (ITEM NO. 600000-B)				
CONSTRUCTION	BEGIN STA./OFFSET	END STA./OFFSET	QUANTITY (LF)	REMARKS
AMHERST	126+59.33 / 20.25' LT	126+77.56 / 42.87' LT	36	SEE STD. MC-100.01; SEE STD. MD 620.03 FOR DEPRESSED CURB AT RAMP
AMHERST	127+14.44 / 49.25' LT	127+39.11 / 25.24' LT	41	SEE STD. MC-100.01; SEE STD. MD 620.03 FOR DEPRESSED CURB AT RAMP
AMHERST	126+39.74 / 19.50' RT	126+90.83 / 46.02' RT	62	SEE STD. MC-100.01; SEE STD. MD 620.03 FOR DEPRESSED CURB AT RAMP
AMHERST	127+34.68 / 67.31' RT	128+03.23 / 16.00' RT	116	SEE STD. MC-100.01; SEE STD. MD 620.03 FOR DEPRESSED CURB AT RAMP
AMHERST	128+29.30 / 16.00' RT	128+52.02 / 24.00' RT	25	SEE STD. MC-100.01; SEE STD. MD 620.03 FOR DEPRESSED CURB AT RAMP
AMHERST	130+40.70 / 24.00' LT	131+02.28 / 24.00' LT	62	SEE STD. MC-100.01; SEE STD. MD 620.03 FOR DEPRESSED CURB AT RAMP

5 INCH CONCRETE SIDEWALK (ITEM NO. 655105)				
CONSTRUCTION	BEGIN STA./OFFSET	END STA./OFFSET	QUANTITY (SF)	REMARKS
AMHERST	126+00.00 / 19.69' RT		682	SEE DETAIL C ON DT-01
AMHERST	126+69.21 / 20.19' RT		93	SEE STD. MD 655.11
AMHERST	126+69.21 / 21.12' LT		85	SEE STD. MD 655.11
AMHERST	126+75.00 / 21.97' LT		155	SEE DETAIL C ON DT-01
AMHERST	126+78.76 / 31.03' LT		85	SEE STD. MD 655.11
AMHERST	126+88.76 / 32.67' RT		96	SEE STD. MD 655.11
AMHERST	127+17.06 / 36.67' LT		91	SEE STD. MD 655.11
AMHERST	127+29.28 / 32.37' RT		97	SEE STD. MD 655.11
AMHERST	127+33.28 / 25.16' LT		93	SEE STD. MD 655.11
AMHERST	127+35.00 / 28.19' RT		506	SEE DETAIL C ON DT-01
AMHERST	127+35.00 / 26.23' LT		342	SEE DETAIL C ON DT-01
AMHERST	127+42.69 / 18.55' RT		97	SEE STD. MD 655.11
AMHERST	128+03.23 / 16.00' RT		128	SEE DETAIL C ON DT-01
AMHERST	129+24.87 / 24.00' RT		16	SEE DETAIL C ON DT-01
AMHERST	130+43.75 / 24.67' LT		58	SEE DETAIL C ON DT-01
AMHERST	130+49.25 / 24.67' LT		49	SEE STD. MD 655.11
AMHERST	130+73.60 / 5.00' LT		650	SEE DETAIL C ON DT-01

CONCRETE VALLEY GUTTER (ITEM NO. 600000-F)				
CONSTRUCTION	BEGIN STA./OFFSET	END STA./OFFSET	QUANTITY (LF)	REMARKS
AMHERST	126+00.00 / 19.50' RT	126+36.74 / 19.50' RT	37	SEE DETAIL D ON DT-02

MODIFIED TYPE D CURB (ITEM NO. 600000-E)				
CONSTRUCTION	BEGIN STA./OFFSET	END STA./OFFSET	QUANTITY (LF)	REMARKS
AMHERST	130+44.08 / 16.00' LT	131+13.09 / 16.00' LT	60	SEE DETAIL B ON DT-02



BOLLARDS (ITEM NO. 600000-G)				
CONSTRUCTION	STA./OFFSET	QUANTITY (EA)	REMARKS	
AMHERST	131+06.10 / 6.26' LT	1	SEE DETAIL D ON DT-03	
AMHERST	131+10.01 / 9.34' LT	1	SEE DETAIL D ON DT-03	
AMHERST	131+13.94 / 12.44' LT	1	SEE DETAIL D ON DT-03	
AMHERST	131+17.87 / 15.53' LT	1	SEE DETAIL D ON DT-03	

DEPRESSED CURB ENTRANCE (ITEM NO. 600000-C)				
CONSTRUCTION	BEGIN STA./OFFSET	END STA./OFFSET	QUANTITY (LF)	REMARKS
AMHERST	128+03.23 / 24.00' RT	128+28.25 / 24.00' RT	25	SEE STD. MC-102.01
AMHERST	129+24.87 / 24.00' RT	129+53.87 / 24.00' RT	29	SEE STD. MC-102.01

8 INCH PORTLAND CEMENT CONCRETE PAVEMENT FOR DRIVEWAY MIX NO. 9 (ITEM NO. 561118)				
CONSTRUCTION	STA./OFFSET	QUANTITY (SY)	REMARKS	
AMHERST	129+24.87 / 24.00' RT	9.5	SEE STD. MD 630.01	

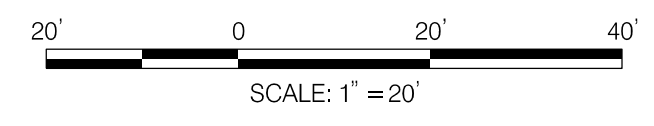
DETECTABLE WARNING SURFACE FOR CURB RAMPS (ITEM NO. 655120)				
CONSTRUCTION	BEGIN STA./OFFSET	END STA./OFFSET	QUANTITY (SF)	REMARKS
AMHERST	126+69.70 / 19.69' RT		10	SEE STD. MD 655.40
AMHERST	126+69.70 / 2.00' LT		10	SEE STD. MD 655.40
AMHERST	126+69.70 / 12.00' LT		10	SEE STD. MD 655.40
AMHERST	126+69.70 / 21.97' LT		10	SEE STD. MD 655.40
AMHERST	126+77.56 / 34.30' LT		10	SEE STD. MD 655.40
AMHERST	126+88.79 / 37.66' RT		10	SEE STD. MD 655.40
AMHERST	127+16.52 / 40.00' LT		10	SEE STD. MD 655.40
AMHERST	127+30.46 / 31.39' RT		10	SEE STD. MD 655.40
AMHERST	127+31.65 / 26.59' RT		10	SEE STD. MD 655.40
AMHERST	127+36.10 / 5.00' LT		10	SEE STD. MD 655.40
AMHERST	127+36.10 / 16.00' LT		10	SEE STD. MD 655.40
AMHERST	127+41.37 / 18.34' RT		10	SEE STD. MD 655.40
AMHERST	130+50.00 / 6.00' LT		10	SEE STD. MD 655.40
AMHERST	130+50.00 / 16.00' LT		10	SEE STD. MD 655.40
AMHERST	130+50.00 / 24.67' LT		10	SEE STD. MD 655.40

6 INCH PORTLAND CEMENT CONCRETE PAVEMENT FOR DRIVEWAY MIX NO. 9 (ITEM NO. 561119)				
CONSTRUCTION	STA./OFFSET	QUANTITY (SY)	REMARKS	
AMHERST	128+03.23 / 16.00' RT	28.5	SEE STD. MD 630.01	

STANDARD TYPE D CURB 8 INCH X 14 INCH MINIMUM (ITEM NO. 634146)				
CONSTRUCTION	BEGIN STA./OFFSET	END STA./OFFSET	QUANTITY (LF)	REMARKS
AMHERST	126+00.00 / 19.50' RT	126+39.74 / 19.50' RT	44	SEE STD. MD-620.02-01
AMHERST	126+44.22 / 12.00' LT	126+79.90 / 20.32' LT	88	SEE STD. MD-620.02-01
AMHERST	127+18.56 / 23.62' LT	127+61.51 / 16.00' LT	102	SEE STD. MD-620.02-01
AMHERST	130+38.08 / 11.00' LT	131+07.09 / 11.00' LT	91	SEE STD. MD-620.02-01
AMHERST	130+44.08 / 16.00' LT	131+13.09 / 16.00' LT	91	SEE DETAIL B ON DT-02

LEGEND

- PROP. DETECTABLE WARNING SURFACE
- PROP. CONCRETE
- PROP. PERMEABLE PAVERS
- PROP. BRICK
- PROP. MILL & OVERLAY
- PROP. FULL DEPTH PAVEMENT
- PROP. FULL DEPTH CYCLE TRACK
- PROP. CONCRETE CURB PATCH
- PROP. STAMPED CONCRETE
- PAVEMENT REMOVAL



NO.	REVISION	BY	APP'D	DATE

DESIGNED BY: UMK
 DRAWN BY: UMK
 CHECKED BY: SJZ
 DRAWING NO.:
 RECOMMENDED FOR APPROVAL
 Chief, Design Section _____ Date _____
 APPROVED
 Chief, Division of Transportation Engineering _____ Date _____

DEPARTMENT OF TRANSPORTATION
 DIVISION OF TRANSPORTATION ENGINEERING
 MONTGOMERY COUNTY, MARYLAND

AMHERST AVE CYCLE TRACK
 ROADWAY PLAN

SCALE: 1"=20' SHEET 20 of 208

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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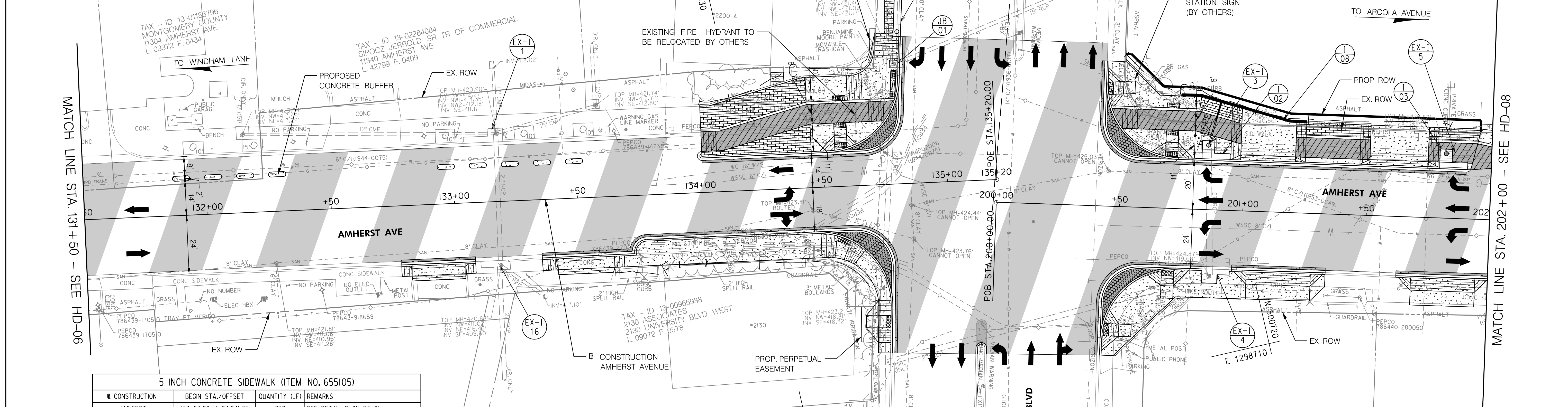
COMBINATION CONCRETE CURB AND GUTTER TYPE A (ITEM NO. 600000-B)				
CONSTRUCTION	BEGIN STA./OFFSET	END STA./OFFSET	QUANTITY (LF)	REMARKS
AMHERST	133+66.80 / 18.00' RT	134+45.65 / 18.00' RT	77	SEE STD. MC-100.01; SEE STD. MD 620.03 FOR DEPRESSED CURB AT RAMP
AMHERST	134+00.99 / 14.00' LT	134+52.29 / 14.00' LT	52	SEE STD. MC-100.01; SEE STD. MD 620.03 FOR DEPRESSED CURB AT RAMP
AMHERST	200+72.98 / 20.00' LT	200+94.36 / 20.00' LT	21	SEE STD. MC-100.01; SEE STD. MD 620.03 FOR DEPRESSED CURB AT RAMP
AMHERST	201+24.59 / 20.00' LT	201+46.74 / 20.00' LT	22	SEE STD. MC-100.01; SEE STD. MD 620.03 FOR DEPRESSED CURB AT RAMP
AMHERST	200+73.89 / 24.11' RT	200+84.25 / 24.00' RT	11	SEE STD. MC-100.01; SEE STD. MD 620.03 FOR DEPRESSED CURB AT RAMP

STANDARD TYPE D CURB 8 INCH X 14 INCH MINIMUM (ITEM NO. 634146)				
CONSTRUCTION	BEGIN STA./OFFSET	END STA./OFFSET	QUANTITY (LF)	REMARKS
AMHERST	134+00.99 / 35.03' LT	134+70.39 / 47.42' LT	83	SEE STD. MD 620.02-01
AMHERST	200+50.63 / 58.91' LT	200+73.30 / 45.76' LT	29	SEE STD. MD 620.02-01
AMHERST	201+24.60 / 36.67' LT	201+50.74 / 36.67' LT	26	SEE STD. MD 620.02-01

STANDARD TYPE C COMBINATION CURB AND GUTTER 12 INCH GUTTER PAN 8 INCH MINIMUM (ITEM NO. 634331)				
CONSTRUCTION	BEGIN STA./OFFSET	END STA./OFFSET	QUANTITY (LF)	REMARKS
AMHERST	134+52.29 / 14.00' LT	134+82.22 / 41.92' LT	51	SEE STD. MD 620.02-01
AMHERST	134+45.65 / 18.00' RT	134+75.62 / 49.64' RT	57	SEE STD. MD 620.02-01
AMHERST	200+42.98 / 49.91' LT	200+72.98 / 20.00' LT	54	SEE STD. MD 620.02-01
AMHERST	200+44.01 / 54.48' RT	200+73.89 / 24.11' RT	55	SEE STD. MD 620.02-01

DEPRESSED CURB ENTRANCE (ITEM NO. 600000-C)				
CONSTRUCTION	BEGIN STA./OFFSET	END STA./OFFSET	QUANTITY (LF)	REMARKS
AMHERST	132+77.53 / 24.00' RT	133+07.53 / 24.00' RT	30	SEE STD. MC-102.01
AMHERST	133+34.60 / 24.00' RT	133+66.80 / 24.00' RT	32	SEE STD. MC-102.01
AMHERST	200+94.36 / 20.67' LT	201+24.59 / 20.67' LT	30	SEE STD. MC-102.01
AMHERST	200+96.23 / 24.00' RT	201+34.23 / 24.00' RT	38	SEE STD. MC-102.01
AMHERST	201+46.74 / 20.67' LT	201+78.38 / 20.67' LT	32	SEE STD. MC-102.01
AMHERST	201+62.00 / 24.00' RT	202+00.00 / 24.00' RT	38	SEE STD. MC-102.01

PRECAST CONCRETE CYCLE TRACK BARRIER (ITEM NO. 600000-A)				
CONSTRUCTION	BEGIN STA./OFFSET	END STA./OFFSET	QUANTITY (LF)	REMARKS
AMHERST	131+89.77 / 14.50' LT	132+38.74 / 14.50' LT	32	SEE DETAIL A ON DT-03
AMHERST	132+87.80 / 14.50' LT	133+58.94 / 14.50' LT	32	SEE DETAIL A ON DT-03



5 INCH CONCRETE SIDEWALK (ITEM NO. 655105)				
CONSTRUCTION	BEGIN STA./OFFSET	END STA./OFFSET	QUANTITY (LF)	REMARKS
AMHERST	133+67.80 / 24.24' RT		770	SEE DETAIL C ON DT-01
AMHERST	134+44.17 / 34.82' LT		167	SEE DETAIL C ON DT-01
AMHERST	134+45.31 / 14.67' LT		175	SEE DETAIL C ON DT-01
AMHERST	134+57.19 / 21.03' RT		141	SEE STD. MD 655.12
AMHERST	134+57.43 / 14.67' LT		83	SEE STD. MD 655.11
AMHERST	134+60.85 / 34.82' LT		346	SEE STD. MD 655.12
AMHERST	134+65.47 / 26.37' LT		61	SEE DETAIL C ON DT-01
AMHERST	134+69.91 / 46.97' RT		56	SEE DETAIL C ON DT-01
AMHERST	134+74.60 / 55.37' RT		86	SEE STD. MD 655.12
AMHERST	200+43.84 / 56.28' LT		280	SEE DETAIL C ON DT-01
AMHERST	200+43.84 / 47.79' LT		90	SEE STD. MD 655.11
AMHERST	200+44.68 / 58.64' RT		630	SEE DETAIL C ON DT-01
AMHERST	200+45.40 / 50.14' RT		95	SEE STD. MD 655.11
AMHERST	200+50.00 / 31.76' LT		276	SEE DETAIL C ON DT-01
AMHERST	200+70.38 / 21.11' LT		90	SEE STD. MD 655.11
AMHERST	200+70.60 / 25.21' RT		95	SEE STD. MD 655.11
AMHERST	201+20.60 / 20.67' LT		61	SEE DETAIL C ON DT-01

REMOVE AND RESET DECORATIVE BRICK SIDEWALK (ITEM NO. 655390)				
CONSTRUCTION	BEGIN STA./OFFSET	END STA./OFFSET	QUANTITY (SF)	REMARKS
AMHERST	134+82.59 / 56.86' LT		112	SEE STD. MC-111.02

11 INCH STAMPED CONCRETE (ITEM NO. 500000-C)				
CONSTRUCTION	BEGIN STA./OFFSET	END STA./OFFSET	QUANTITY (SF)	REMARKS
AMHERST	134+56.29 / 14.00' LT		96	SEE DETAIL E ON DT-02
AMHERST	134+59.29 / 18.00' RT		133	SEE DETAIL E ON DT-02
AMHERST	200+50.00 / 20.00' LT		115	SEE DETAIL E ON DT-02
AMHERST	200+50.00 / 24.21' RT		114	SEE DETAIL E ON DT-02

STREETSCAPE - PAVERS SIDEWALK (ITEM NO. 600000-D)				
CONSTRUCTION	BEGIN STA./OFFSET	END STA./OFFSET	QUANTITY (SF)	REMARKS
AMHERST	134+00.99 / 25.67' LT		441	SEE STD. MC-111.02
AMHERST	134+00.99 / 14.00' LT		252	SEE STD. MC-111.02
AMHERST	200+81.2 / 40.76' LT		88	SEE STD. MC-111.02
AMHERST	201+24.60 / 31.67' LT		151	SEE STD. MC-111.02
AMHERST	201+78.38 / 31.67' LT		103	SEE STD. MC-111.02

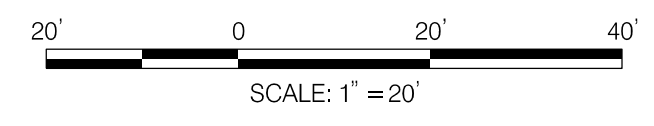
DETECTABLE WARNING SURFACE FOR CURB RAMPS (ITEM NO. 655120)				
CONSTRUCTION	BEGIN STA./OFFSET	END STA./OFFSET	QUANTITY (SF)	REMARKS
AMHERST	134+58.28 / 19.80' RT		10	SEE STD. MD 655.40
AMHERST	134+58.28 / 15.29' LT		10	SEE STD. MD 655.40
AMHERST	134+58.28 / 25.82' LT		10	SEE STD. MD 655.40
AMHERST	134+58.28 / 34.82' LT		10	SEE STD. MD 655.40
AMHERST	134+74.62 / 55.74' RT		10	SEE STD. MD 655.40
AMHERST	134+81.41 / 41.62' LT		23	SEE STD. MD 655.40
AMHERST	200+44.98 / 49.90' RT		10	SEE STD. MD 655.40
AMHERST	200+44.98 / 46.82' LT		10	SEE STD. MD 655.40
AMHERST	200+70.38 / 25.00' RT		10	SEE STD. MD 655.40
AMHERST	200+70.38 / 20.78' LT		10	SEE STD. MD 655.40
AMHERST	200+70.38 / 31.76' LT		10	SEE STD. MD 655.40
AMHERST	200+70.38 / 40.76' LT		10	SEE STD. MD 655.40

8 INCH PORTLAND CEMENT CONCRETE PAVEMENT FOR DRIVEWAY MIX NO. 9 (ITEM NO. 561118)				
CONSTRUCTION	STA./OFFSET	QUANTITY (SY)	REMARKS	
AMHERST	132+77.53 / 24.00' RT	15	SEE STD. MD 630.01	
AMHERST	133+34.60 / 24.00' RT	17	SEE STD. MD 630.01	
AMHERST	200+94.36 / 20.67' LT	45	SEE STD. MD 630.01	
AMHERST	200+96.23 / 24.00' RT	35	SEE STD. MD 630.01	
AMHERST	201+46.74 / 20.67' LT	42	SEE STD. MD 630.01	
AMHERST	201+62.86 / 24.00' RT	35	SEE STD. MD 630.01	

MODIFIED TYPE D CURB (ITEM NO. 600000-E)				
CONSTRUCTION	BEGIN STA./OFFSET	END STA./OFFSET	QUANTITY (LF)	REMARKS
AMHERST	134+00.99 / 24.67' LT	134+79.80 / 33.82' LT	80	SEE DETAIL B ON DT-02
AMHERST	200+45.14 / 40.76' LT	202+00.00 / 29.57' LT	155	SEE DETAIL B ON DT-02
AMHERST	134+52.29 / 14.00' LT	134+82.22 / 41.92' LT	45	SEE DETAIL B ON DT-02
AMHERST	134+45.65 / 18.00' RT	134+75.62 / 49.64' RT	49	SEE DETAIL B ON DT-02
AMHERST	200+42.98 / 49.91' LT	200+72.98 / 20.00' LT	47	SEE DETAIL B ON DT-02
AMHERST	200+44.01 / 54.48' RT	200+73.89 / 24.11' RT	48	SEE DETAIL B ON DT-02

LEGEND

	PROP. DETECTABLE WARNING SURFACE		PROP. FULL DEPTH PAVEMENT
	PROP. CONCRETE		PROP. PERMEABLE PAVERS
	PROP. BRICK		PROP. STAMPED CONCRETE
	PROP. MILL & OVERLAY		PROP. CONCRETE CURB PATCH
			PAVEMENT REMOVAL



NO.	REVISION	BY	APP'D	DATE

DESIGNED BY: UMK
 DRAWN BY: UMK
 CHECKED BY: SJZ
 DRAWING NO.:
 RECOMMENDED FOR APPROVAL
 Chief, Design Section _____ Date _____
 APPROVED
 Chief, Division of Transportation Engineering _____ Date _____

DEPARTMENT OF TRANSPORTATION
 DIVISION OF TRANSPORTATION ENGINEERING
 MONTGOMERY COUNTY, MARYLAND

AMHERST AVE CYCLE TRACK
 ROADWAY PLAN

SCALE: 1"=20'
 SHEET 21 of 208

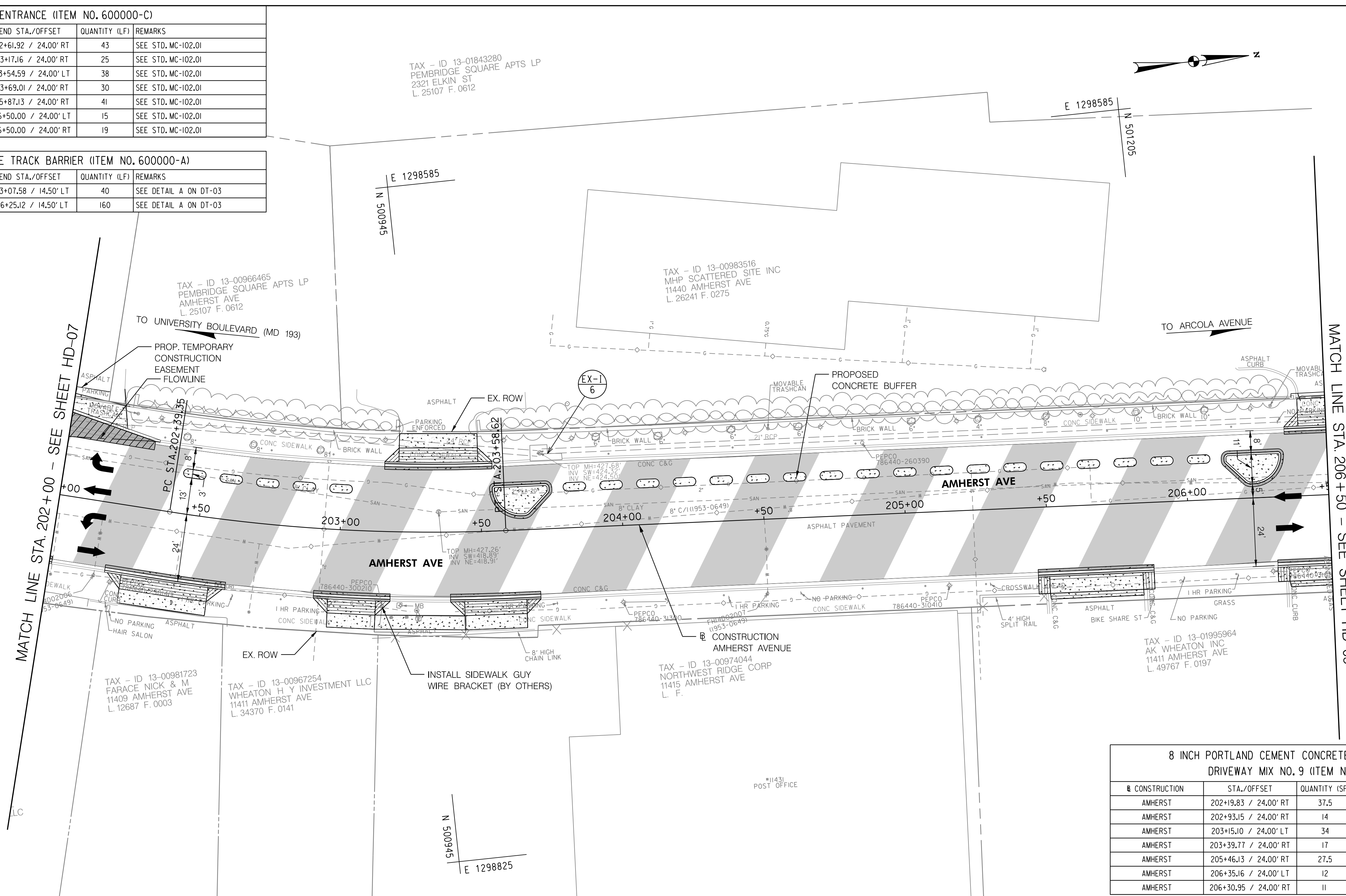
810 Gleneagles Court, Suite 300
 Baltimore, MD 21286
 www.stantec.com

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: _____

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DEPRESSED CURB ENTRANCE (ITEM NO. 600000-C)				
CONSTRUCTION	BEGIN STA./OFFSET	END STA./OFFSET	QUANTITY (LF)	REMARKS
AMHERST	202+19.83 / 24.00' RT	202+61.92 / 24.00' RT	43	SEE STD. MC-102.01
AMHERST	202+93.15 / 24.00' RT	203+17.16 / 24.00' RT	25	SEE STD. MC-102.01
AMHERST	203+15.10 / 24.00' LT	203+54.59 / 24.00' LT	38	SEE STD. MC-102.01
AMHERST	203+39.77 / 24.00' RT	203+69.01 / 24.00' RT	30	SEE STD. MC-102.01
AMHERST	205+46.13 / 24.00' RT	205+87.13 / 24.00' RT	41	SEE STD. MC-102.01
AMHERST	206+35.16 / 24.00' LT	206+50.00 / 24.00' LT	15	SEE STD. MC-102.01
AMHERST	206+30.95 / 24.00' RT	206+50.00 / 24.00' RT	19	SEE STD. MC-102.01

PRECAST CONCRETE CYCLE TRACK BARRIER (ITEM NO. 600000-A)				
CONSTRUCTION	BEGIN STA./OFFSET	END STA./OFFSET	QUANTITY (LF)	REMARKS
AMHERST	202+37.77 / 14.50' LT	203+07.58 / 14.50' LT	40	SEE DETAIL A ON DT-03
AMHERST	203+62.84 / 14.50' LT	206+25.12 / 14.50' LT	160	SEE DETAIL A ON DT-03

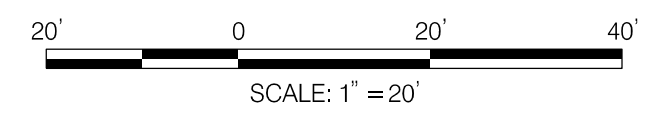


8 INCH PORTLAND CEMENT CONCRETE PAVEMENT FOR DRIVEWAY MIX NO. 9 (ITEM NO. 561118)			
CONSTRUCTION	STA./OFFSET	QUANTITY (SF)	REMARKS
AMHERST	202+19.83 / 24.00' RT	37.5	SEE STD. MD 630.01
AMHERST	202+93.15 / 24.00' RT	14	SEE STD. MD 630.01
AMHERST	203+15.10 / 24.00' LT	34	SEE STD. MD 630.01
AMHERST	203+39.77 / 24.00' RT	17	SEE STD. MD 630.01
AMHERST	205+46.13 / 24.00' RT	27.5	SEE STD. MD 630.01
AMHERST	206+35.16 / 24.00' LT	12	SEE STD. MD 630.01
AMHERST	206+30.95 / 24.00' RT	11	SEE STD. MD 630.01

STANDARD TYPE D CURB 8 INCH X 14 INCH MINIMUM (ITEM NO. 634146)				
CONSTRUCTION	BEGIN STA./OFFSET	END STA./OFFSET	QUANTITY (LF)	REMARKS
AMHERST	202+00.00 / 29.57' LT	202+32.22 / 24.54' LT	32	SEE STD. MD 620.02-01
AMHERST	203+54.35 / 16.00' LT	203+74.53 / 16.00' LT	52	SEE STD. MD 620.02-01
AMHERST	206+13.53 / 16.00' LT	206+33.60 / 16.00' LT	52	SEE STD. MD 620.02-01

5 INCH CONCRETE SIDEWALK (ITEM NO. 655105)			
CONSTRUCTION	STA./OFFSET	QUANTITY (SF)	REMARKS
AMHERST	203+17.16 / 24.00' RT	323	SEE DETAIL C ON DT-01
AMHERST	203+54.45 / 16.00' LT	150	SEE DETAIL C ON DT-01
AMHERST	206+13.53 / 16.00' LT	150	SEE DETAIL C ON DT-01

- LEGEND**
- PROP. DETECTABLE WARNING SURFACE
 - PROP. CONCRETE
 - PROP. PERMEABLE PAVERS
 - PROP. BRICK
 - PROP. MILL & OVERLAY
 - PROP. FULL DEPTH PAVEMENT
 - PROP. FULL DEPTH CYCLE TRACK
 - PROP. CONCRETE CURB PATCH
 - PROP. STAMPED CONCRETE
 - PAVEMENT REMOVAL



NO.	REVISION	BY	APP'D	DATE

DESIGNED BY: UMK	DATE: OCTOBER, 2023
DRAWN BY: UMK	DATE: OCTOBER, 2023
CHECKED BY: SJZ	DATE: OCTOBER, 2023
DRAWING NO.:	DATE:
RECOMMENDED FOR APPROVAL	
Chief, Design Section	Date
APPROVED	
Chief, Division of Transportation Engineering	Date

DEPARTMENT OF TRANSPORTATION
DIVISION OF TRANSPORTATION ENGINEERING
MONTGOMERY COUNTY, MARYLAND

AMHERST AVE CYCLE TRACK
ROADWAY PLAN



PROFESSIONAL CERTIFICATION:
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LICENSE NO: _____ EXPIRATION DATE: _____

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10/9/2023
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11 INCH STAMPED CONCRETE (ITEM NO. 500000-C)				
CONSTRUCTION	BEGIN STA./OFFSET	END STA./OFFSET	QUANTITY (SF)	REMARKS
AMHERST	207+25.00 / 11.00' LT		62	SEE DETAIL D ON DT-02
AMHERST	207+70.00 / 11.00' LT		40	SEE DETAIL D ON DT-02

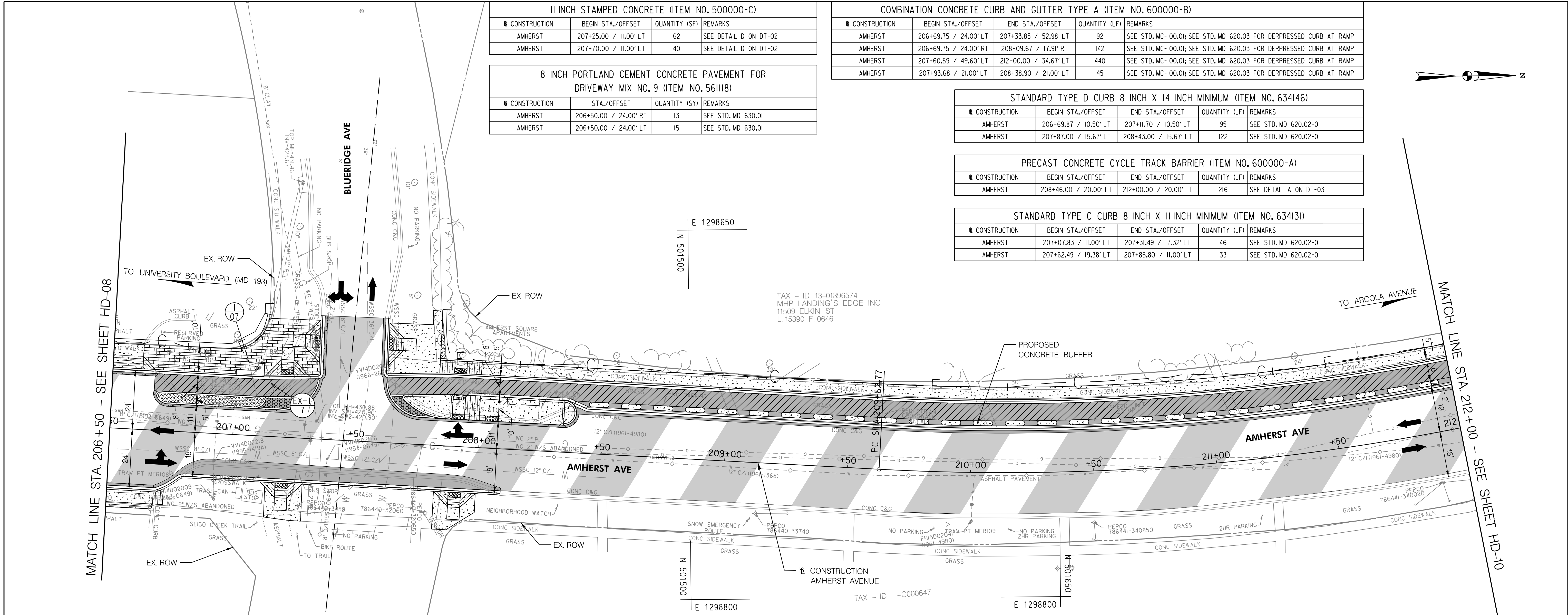
COMBINATION CONCRETE CURB AND GUTTER TYPE A (ITEM NO. 600000-B)				
CONSTRUCTION	BEGIN STA./OFFSET	END STA./OFFSET	QUANTITY (LF)	REMARKS
AMHERST	206+69.75 / 24.00' LT	207+33.85 / 52.98' LT	92	SEE STD. MC-100.01; SEE STD. MD 620.03 FOR DEPRESSED CURB AT RAMP
AMHERST	206+69.75 / 24.00' RT	208+09.67 / 17.91' RT	142	SEE STD. MC-100.01; SEE STD. MD 620.03 FOR DEPRESSED CURB AT RAMP
AMHERST	207+60.59 / 49.60' LT	212+00.00 / 34.67' LT	440	SEE STD. MC-100.01; SEE STD. MD 620.03 FOR DEPRESSED CURB AT RAMP
AMHERST	207+93.68 / 21.00' LT	208+38.90 / 21.00' LT	45	SEE STD. MC-100.01; SEE STD. MD 620.03 FOR DEPRESSED CURB AT RAMP

8 INCH PORTLAND CEMENT CONCRETE PAVEMENT FOR DRIVEWAY MIX NO. 9 (ITEM NO. 561118)				
CONSTRUCTION	STA./OFFSET	QUANTITY (SF)	REMARKS	
AMHERST	206+50.00 / 24.00' RT	13	SEE STD. MD 630.01	
AMHERST	206+50.00 / 24.00' LT	15	SEE STD. MD 630.01	

STANDARD TYPE D CURB 8 INCH X 14 INCH MINIMUM (ITEM NO. 634146)				
CONSTRUCTION	BEGIN STA./OFFSET	END STA./OFFSET	QUANTITY (LF)	REMARKS
AMHERST	206+69.87 / 10.50' LT	207+11.70 / 10.50' LT	95	SEE STD. MD 620.02-01
AMHERST	207+87.00 / 15.67' LT	208+43.00 / 15.67' LT	122	SEE STD. MD 620.02-01

PRECAST CONCRETE CYCLE TRACK BARRIER (ITEM NO. 600000-A)				
CONSTRUCTION	BEGIN STA./OFFSET	END STA./OFFSET	QUANTITY (LF)	REMARKS
AMHERST	208+46.00 / 20.00' LT	212+00.00 / 20.00' LT	216	SEE DETAIL A ON DT-03

STANDARD TYPE C CURB 8 INCH X 11 INCH MINIMUM (ITEM NO. 634131)				
CONSTRUCTION	BEGIN STA./OFFSET	END STA./OFFSET	QUANTITY (LF)	REMARKS
AMHERST	207+07.83 / 11.00' LT	207+31.49 / 17.32' LT	46	SEE STD. MD 620.02-01
AMHERST	207+62.49 / 19.38' LT	207+85.80 / 11.00' LT	33	SEE STD. MD 620.02-01



DETECTABLE WARNING SURFACE FOR CURB RAMPS (ITEM NO. 655120)				
CONSTRUCTION	BEGIN STA./OFFSET	END STA./OFFSET	QUANTITY (SF)	REMARKS
AMHERST	207+20.70 / 18.79' RT		10	SEE STD. MD 655.40
AMHERST	207+20.70 / 24.72' LT		10	SEE STD. MD 655.40
AMHERST	207+33.85 / 39.69' GT		10	SEE STD. MD 655.40
AMHERST	207+60.59 / 39.57' LT		10	SEE STD. MD 655.40
AMHERST	207+91.05 / 29.67' LT		10	SEE STD. MD 655.40
AMHERST	207+91.05 / 21.00' LT		10	SEE STD. MD 655.40
AMHERST	207+91.05 / 11.00' LT		10	SEE STD. MD 655.40
AMHERST	207+91.05 / 18.67' RT		10	SEE STD. MD 655.40
AMHERST	208+05.20 / 11.00' LT		10	SEE STD. MD 655.40

MODIFIED TYPE D CURB (ITEM NO. 600000-E)				
CONSTRUCTION	BEGIN STA./OFFSET	END STA./OFFSET	QUANTITY (LF)	REMARKS
AMHERST	207+07.83 / 11.00' LT	207+11.49 / 17.32' LT	7	SEE DETAIL B ON DT-02
AMHERST	207+62.49 / 19.38' LT	207+85.80 / 11.00' LT	23	SEE DETAIL B ON DT-02

5 INCH CONCRETE SIDEWALK (ITEM NO. 655105)				
CONSTRUCTION	BEGIN STA./OFFSET	END STA./OFFSET	QUANTITY (SF)	REMARKS
AMHERST	207+12.15 / 18.00' RT		133	SEE DETAIL C ON DT-01
AMHERST	207+20.70 / 18.79' RT		91	SEE STD. MD 655.11
AMHERST	207+20.70 / 24.72' LT		91	SEE STD. MD 655.11
AMHERST	207+33.87 / 39.68' LT		91	SEE STD. MD 655.11
AMHERST	207+60.59 / 49.60' LT		2350	SEE DETAIL C ON DT-01
AMHERST	207+61.41 / 39.43' LT		92	SEE STD. MD 655.11
AMHERST	207+68.90 / 18.49' LT		152	SEE DETAIL C ON DT-01
AMHERST	207+82.55 / 18.00' RT		127	SEE DETAIL C ON DT-01
AMHERST	207+85.57 / 18.00' RT		91	SEE STD. MD 655.11
AMHERST	207+87.00 / 15.67' LT		343	SEE DETAIL C ON DT-01
AMHERST	207+91.05 / 29.00' LT		86	SEE STD. MD 655.12
AMHERST	207+91.05 / 11.00' LT		111	SEE STD. MD 655.12

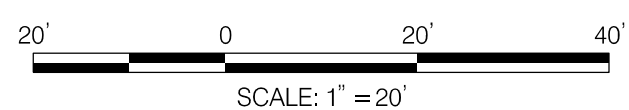
CONCRETE VALLEY GUTTER (ITEM NO. 600000-F)				
CONSTRUCTION	BEGIN STA./OFFSET	END STA./OFFSET	QUANTITY (LF)	REMARKS
AMHERST	208+35.41 / 21.00' LT	212+00.00 / 18.00' LT	370	SEE DETAIL C ON DT-02

DEPRESSED CURB ENTRANCE (ITEM NO. 600000-C)				
CONSTRUCTION	BEGIN STA./OFFSET	END STA./OFFSET	QUANTITY (LF)	REMARKS
AMHERST	206+50.00 / 24.00' LT	206+69.75 / 24.00' LT	20	SEE STD. MC-102.01
AMHERST	206+50.00 / 24.00' RT	206+69.75 / 24.00' RT	20	SEE STD. MC-102.01

STREETSCAPE - PAVERS SIDEWALK (ITEM NO. 600000-D)				
CONSTRUCTION	BEGIN STA./OFFSET	END STA./OFFSET	QUANTITY (SF)	REMARKS
AMHERST	206+65.22 / 24.00' LT		790	SEE STD. MC-111.02

LEGEND

	PROP. DETECTABLE WARNING SURFACE		PROP. FULL DEPTH PAVEMENT
	PROP. CONCRETE		PROP. FULL DEPTH CYCLE TRACK
	PROP. PERMEABLE PAVERS		PROP. CONCRETE CURB PATCH
	PROP. BRICK		PROP. STAMPED CONCRETE
	PROP. MILL & OVERLAY		PAVEMENT REMOVAL



NO.	REVISION	BY	APP'D	DATE

DESIGNED BY: UMK	DATE: OCTOBER, 2023
DRAWN BY: UMK	DATE: OCTOBER, 2023
CHECKED BY: SJZ	DATE: OCTOBER, 2023
DRAWING NO.:	DATE:
RECOMMENDED FOR APPROVAL	
Chief, Design Section	Date
APPROVED	
Chief, Division of Transportation Engineering	Date

HD-09

DEPARTMENT OF TRANSPORTATION
 DIVISION OF TRANSPORTATION ENGINEERING
 MONTGOMERY COUNTY, MARYLAND

AMHERST AVE CYCLE TRACK
 ROADWAY PLAN

SCALE: 1"=20' SHEET 23 of 208

810 Gleneagles Court, Suite 300
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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: _____

10/9/2023 \\US1527-F01\shared\projects\20252314\700 CADD\700 Sheet\pHD-P010_AmherstAve.dgn

6 INCH PORTLAND CEMENT CONCRETE PAVEMENT FOR DRIVEWAY MIX NO. 9 (ITEM NO. 561119)			
CONSTRUCTION	STA./OFFSET	QUANTITY (SY)	REMARKS
AMHERST	214+40.12 / 30.13' RT	35.5	SEE STD. MD 630.01
AMHERST	215+85.81 / 18.00' RT	20	SEE STD. MD 630.01

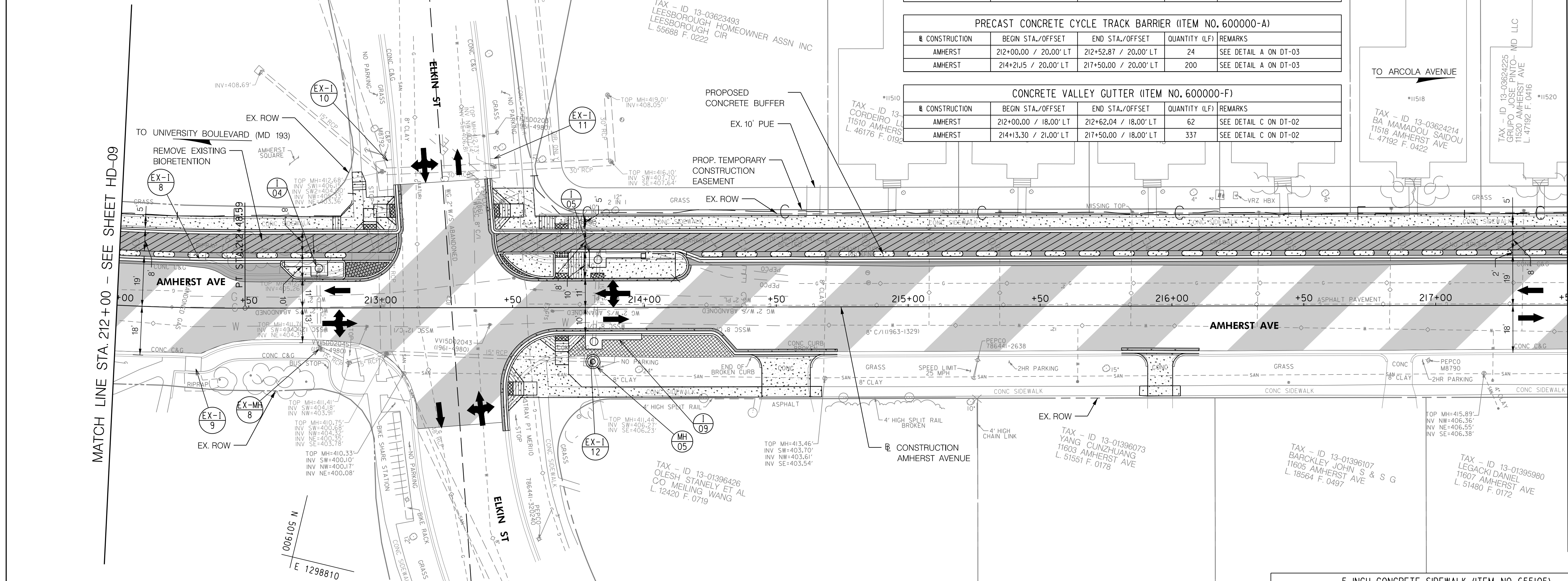
11 INCH STAMPED CONCRETE (ITEM NO. 500000-C)			
CONSTRUCTION	BEGIN STA./OFFSET	QUANTITY (SF)	REMARKS
AMHERST	212+90.00 / 11.00' LT	76	SEE DETAIL D ON DT-02
AMHERST	213+50.00 / 11.00' LT	14	SEE DETAIL D ON DT-02

COMBINATION CONCRETE CURB AND GUTTER TYPE A (ITEM NO. 600000-B)				
CONSTRUCTION	BEGIN STA./OFFSET	END STA./OFFSET	QUANTITY (LF)	REMARKS
AMHERST	212+00.00 / 31.67' LT	213+05.71 / 44.98' LT	123	SEE STD. MC-100.01; SEE STD. MD 620.03 FOR DEPRESSED CURB AT RAMP
AMHERST	212+63.04 / 17.33' LT	212+85.06 / 17.33' LT	22	SEE STD. MC-100.01; SEE STD. MD 620.03 FOR DEPRESSED CURB AT RAMP
AMHERST	213+41.55 / 48.90' LT	217+50.00 / 29.67' LT	400	SEE STD. MC-100.01; SEE STD. MD 620.03 FOR DEPRESSED CURB AT RAMP
AMHERST	213+48.25 / 46.58' RT	214+34.15 / 18.00' RT	118	SEE STD. MC-100.01; SEE STD. MD 620.03 FOR DEPRESSED CURB AT RAMP

STANDARD TYPE D CURB 8 INCH X 14 INCH MINIMUM (ITEM NO. 634146)				
CONSTRUCTION	BEGIN STA./OFFSET	END STA./OFFSET	QUANTITY (LF)	REMARKS
AMHERST	212+62.51 / 18' LT	212+86.54 / 18' LT	36	SEE STD. MD 620.02-01
AMHERST	213+46.51 / 21.00' LT	214+16.79 / 21.00' LT	130	SEE STD. MD 620.02-01

PRECAST CONCRETE CYCLE TRACK BARRIER (ITEM NO. 600000-A)				
CONSTRUCTION	BEGIN STA./OFFSET	END STA./OFFSET	QUANTITY (LF)	REMARKS
AMHERST	212+00.00 / 20.00' LT	212+52.87 / 20.00' LT	24	SEE DETAIL A ON DT-03
AMHERST	214+21.15 / 20.00' LT	217+50.00 / 20.00' LT	200	SEE DETAIL A ON DT-03

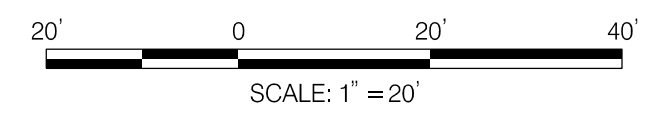
CONCRETE VALLEY GUTTER (ITEM NO. 600000-F)				
CONSTRUCTION	BEGIN STA./OFFSET	END STA./OFFSET	QUANTITY (LF)	REMARKS
AMHERST	212+00.00 / 18.00' LT	212+62.04 / 18.00' LT	62	SEE DETAIL C ON DT-02
AMHERST	214+13.30 / 21.00' LT	217+50.00 / 18.00' LT	337	SEE DETAIL C ON DT-02



STANDARD TYPE C CURB 8 INCH X 11 INCH MINIMUM (ITEM NO. 634131)				
CONSTRUCTION	BEGIN STA./OFFSET	END STA./OFFSET	QUANTITY (LF)	REMARKS
AMHERST	212+86.54 / 11.00' LT	213+04.62 / 18.00' LT	46	SEE STD. MD 620.02-01
AMHERST	213+44.10 / 21.00' LT	213+62.89 / 11.00' LT	27	SEE STD. MD 620.02-01

DEPRESSED CURB ENTRANCE (ITEM NO. 600000-C)				
CONSTRUCTION	BEGIN STA./OFFSET	END STA./OFFSET	QUANTITY (LF)	REMARKS
AMHERST	214+34.12 / 18.00' RT	214+73.12 / 18.00' RT	39	SEE STD. MC-102.01
AMHERST	215+80.81 / 18.00' RT	216+10.26 / 18.00' RT	30	SEE STD. MC-102.01

- LEGEND**
- PROP. DETECTABLE WARNING SURFACE
 - PROP. CONCRETE
 - PROP. PERMEABLE PAVERS
 - PROP. BRICK
 - PROP. MILL & OVERLAY
 - PROP. FULL DEPTH PAVEMENT
 - PROP. FULL DEPTH CYCLE TRACK
 - PROP. CONCRETE CURB PATCH
 - PROP. STAMPED CONCRETE
 - PAVEMENT REMOVAL



NO.	REVISION	BY	APP'D	DATE

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Chief, Design Section	Date
APPROVED	
Chief, Division of Transportation Engineering	Date

5 INCH CONCRETE SIDEWALK (ITEM NO. 655105)			
CONSTRUCTION	STA./OFFSET	QUANTITY (LF)	REMARKS
AMHERST	212+00.00 / 29.67' LT	623	SEE DETAIL C ON DT-01
AMHERST	212+96.01 / 29.67' LT	48	SEE STD. MD 655.11
AMHERST	213+05.61 / 36.59' LT	48	SEE STD. MD 655.11
AMHERST	213+43.10 / 36.68' LT	93	SEE STD. MD 655.11
AMHERST	213+41.55 / 48.89' LT	2021	SEE DETAIL C ON DT-01
AMHERST	213+47.13 / 19.81' LT	121	SEE DETAIL C ON DT-01
AMHERST	213+67.15 / 15.67' LT	301	SEE DETAIL C ON DT-01
AMHERST	213+68.68 / 29.67' LT	86	SEE STD. MD 655.12
AMHERST	213+68.68 / 11.00' LT	111	SEE STD. MD 655.12
AMHERST	213+48.25 / 39.19' RT	615	SEE DETAIL C ON DT-01
AMHERST	213+40.12 / 30.13' RT	91	SEE STD. MD 655.11
AMHERST	213+85.81 / 18.00' RT	92	SEE STD. MD 655.11

DEPARTMENT OF TRANSPORTATION
DIVISION OF TRANSPORTATION ENGINEERING
MONTGOMERY COUNTY, MARYLAND

AMHERST AVE CYCLE TRACK
ROADWAY PLAN



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LICENSE NO: _____ EXPIRATION DATE: _____

MATCH LINE STA. 217 + 50 - SEE SHEET HD-11

MATCH LINE STA. 212 + 00 - SEE SHEET HD-09

DETECTABLE WARNING SURFACE FOR CURB RAMPS (ITEM NO. 655120)			
CONSTRUCTION	STA./OFFSET	QUANTITY (SF)	REMARKS
AMHERST	217+71.87 / 30.96' LT	10	SEE STD. MD 655.40
AMHERST	218+08.13 / 30.63' LT	10	SEE STD. MD 655.40
AMHERST	220+39.89 / 33.00' LT	10	SEE STD. MD 655.40
AMHERST	220+39.89 / 24.00' LT	10	SEE STD. MD 655.40
AMHERST	220+39.89 / 14.00' LT	10	SEE STD. MD 655.40
AMHERST	221+27.32 / 32.88' LT	10	SEE STD. MD 655.40
AMHERST	221+27.32 / 23.23' LT	10	SEE STD. MD 655.40
AMHERST	221+27.32 / 14.00' LT	10	SEE STD. MD 655.40
AMHERST	221+27.32 / 18.50' RT	10	SEE STD. MD 655.40
AMHERST	221+49.29 / 31.0' RT	10	SEE STD. MD 655.40
AMHERST	221+49.29 / 31.0' LT	10	SEE STD. MD 655.40
AMHERST	221+49.29 / 31.0' LT	10	SEE STD. MD 655.40
AMHERST	221+90.00 / 39.09' LT	10	SEE STD. MD 655.40
AMHERST	221+90.00 / 28.00' LT	18	SEE DETAIL C ON DT-03
AMHERST	221+90.00 / 32.00' RT	10	SEE STD. MD 655.40

COMBINATION CONCRETE CURB AND GUTTER TYPE A (ITEM NO. 600000-B)				
CONSTRUCTION	BEGIN STA./OFFSET	END STA./OFFSET	QUANTITY (LF)	REMARKS
AMHERST	217+50.00 / 29.67' LT	217+77.57 / 42.94' LT	28	SEE STD. MC-100.0; SEE STD. MD 620.03 FOR DEPRESSED CURB AT RAMP
AMHERST	218+01.93 / 43.08' LT	221+49.29 / 47.89' LT	348	SEE STD. MC-100.0; SEE STD. MD 620.03 FOR DEPRESSED CURB AT RAMP
AMHERST	220+40.34 / 18.00' RT	220+55.04 / 18.00' RT	15	SEE STD. MC-100.0; SEE STD. MD 620.03 FOR DEPRESSED CURB AT RAMP
AMHERST	221+15.85 / 17.77' RT	221+49.29 / 46.26' RT	34	SEE STD. MC-100.0; SEE STD. MD 620.03 FOR DEPRESSED CURB AT RAMP
AMHERST	221+90.00 / 18.91' LT	221+90.00 / 49.24' LT	30	SEE STD. MC-100.0; SEE STD. MD 620.03 FOR DEPRESSED CURB AT RAMP
AMHERST	221+90.00 / 21.31' RT	221+90.00 / 37.87' RT	17	SEE STD. MC-100.0; SEE STD. MD 620.03 FOR DEPRESSED CURB AT RAMP

DEPRESSED CURB ENTRANCE (ITEM NO. 600000-C)				
CONSTRUCTION	BEGIN STA./OFFSET	END STA./OFFSET	QUANTITY (LF)	REMARKS
AMHERST	219+68.91 / 30.64' LT	219+86.10 / 31.03' LT	17	SEE STD. MC-102.01
AMHERST	221+90.00 / 37.92' RT	221+90.00 / 64.34' RT	26	SEE STD. MC-102.01

5 INCH CONCRETE SIDEWALK (ITEM NO. 655105)				
CONSTRUCTION	STA./OFFSET	QUANTITY (SF)	REMARKS	
AMHERST	217+50.00 / 29.67' LT	226	SEE DETAIL C ON DT-01	
AMHERST	217+76.64 / 32.86' LT	78	SEE STD. MD 655.11	
AMHERST	218+01.93 / 43.08' LT	1901	SEE DETAIL C ON DT-01	
AMHERST	218+02.80 / 32.86' LT	78	SEE STD. MD 655.11	
AMHERST	220+35.27 / 13.82' LT	1050	SEE DETAIL C ON DT-01	
AMHERST	220+40.34 / 18.00' RT	117	SEE DETAIL C ON DT-01	
AMHERST	220+41.02 / 32.65' LT	55	SEE STD. MD 655.12	
AMHERST	220+41.02 / 23.98' LT	50	SEE STD. MD 655.11	
AMHERST	221+15.85 / 18.00' RT	411	SEE DETAIL C ON DT-01	
AMHERST	221+25.87 / 14.23' LT	111	SEE STD. MD 655.12	
AMHERST	221+25.87 / 32.90' LT	86	SEE STD. MD 655.12	
AMHERST	221+25.87 / 18.43' RT	92	SEE STD. MD 655.11	
AMHERST	221+47.32 / 30.94' RT	100	SEE STD. MD 655.11	
AMHERST	221+48.94 / 39.45' LT	90	SEE STD. MD 655.11	
AMHERST	221+90.00 / 39.63' LT	91	SEE STD. MD 655.11	
AMHERST	221+90.00 / 27.64' LT	144	SEE STD. MD 655.11	
AMHERST	221+90.00 / 0.00' LT	1050	SEE DETAIL C ON DT-01	
AMHERST	221+90.00 / 31.56' RT	117	SEE STD. MD 655.11	
AMHERST	221+90.00 / 60.80' RT	487	SEE DETAIL C ON DT-01	

6 INCH PORTLAND CEMENT CONCRETE PAVEMENT FOR DRIVEWAY MIX NO. 9 (ITEM NO. 561119)				
CONSTRUCTION	STA./OFFSET	QUANTITY (SY)	REMARKS	
AMHERST	219+72.73 / 30.73' LT	6	SEE STD. MD 630.01	
AMHERST	221+90.00 / 37.92' RT	30	SEE STD. MD 630.01	

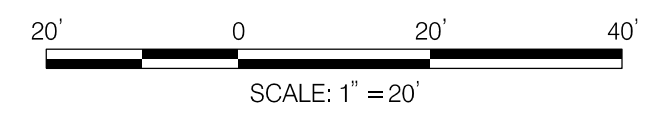
STREETSCAPE - PAVERS SIDEWALK (ITEM NO. 600000-D)				
CONSTRUCTION	STA./OFFSET	QUANTITY (SF)	REMARKS	
AMHERST	217+71.87 / 30.96' LT	240	SEE STD. MC-111.02	

CONCRETE VALLEY GUTTER (ITEM NO. 600000-F)				
CONSTRUCTION	BEGIN STA./OFFSET	END STA./OFFSET	QUANTITY (LF)	REMARKS
AMHERST	217+50.00 / 18.00 LT	219+87.40 / 22.40' LT	242	SEE DETAIL C ON DT-02

PRECAST CONCRETE CYCLE TRACK BARRIER (ITEM NO. 600000-A)				
CONSTRUCTION	BEGIN STA./OFFSET	END STA./OFFSET	QUANTITY (LF)	REMARKS
AMHERST	218+21.55 / 20.00' LT	219+81.44 / 20.83' LT	88	SEE DETAIL A ON DT-03

LEGEND

	PROP. DETECTABLE WARNING SURFACE		PROP. FULL DEPTH PAVEMENT
	PROP. CONCRETE		PROP. FULL DEPTH CYCLE TRACK
	PROP. PERMEABLE PAVERS		PROP. CONCRETE CURB PATCH
	PROP. BRICK		PROP. STAMPED CONCRETE
	PROP. MILL & OVERLAY		PAVEMENT REMOVAL



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RECOMMENDED FOR APPROVAL

Chief, Design Section	Date
APPROVED	
Chief, Division of Transportation Engineering	Date

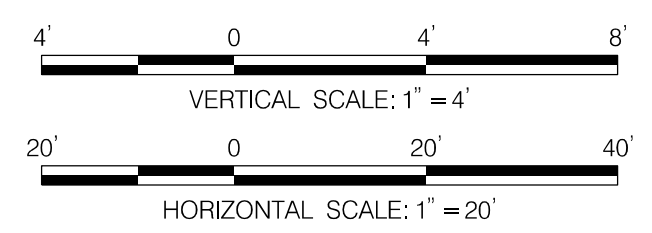
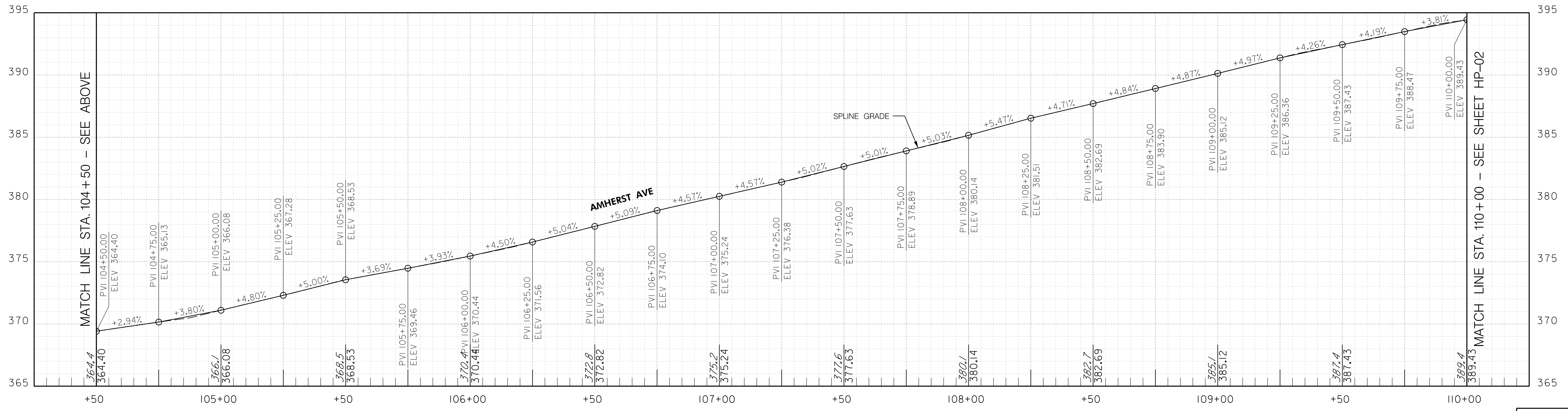
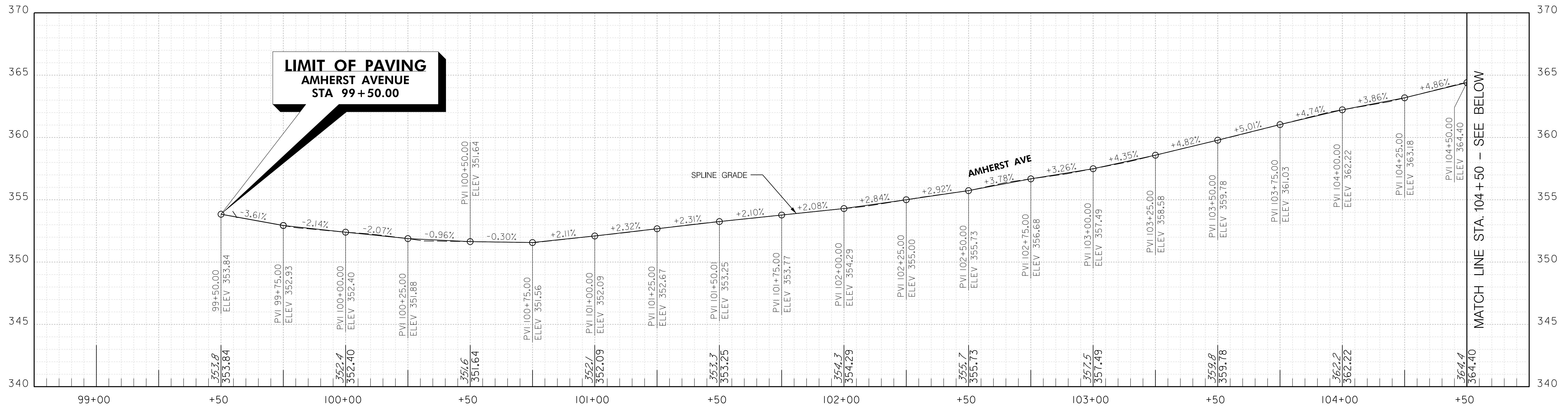
DEPARTMENT OF TRANSPORTATION
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MONTGOMERY COUNTY, MARYLAND

AMHERST AVE CYCLE TRACK
 ROADWAY PLAN

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**LIMIT OF PAVING
AMHERST AVENUE
STA 99+50.00**



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APPROVED

Chief, Division of Transportation Engineering _____ Date _____

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DIVISION OF TRANSPORTATION ENGINEERING
MONTGOMERY COUNTY, MARYLAND**

AMHERST AVE CYCLE TRACK
ROADWAY PROFILE

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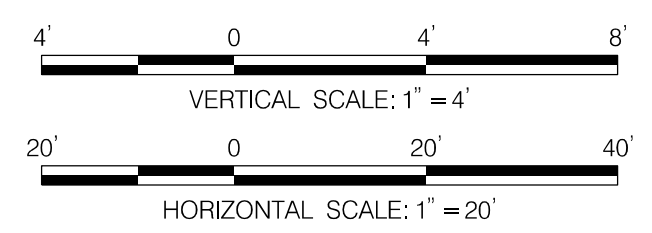
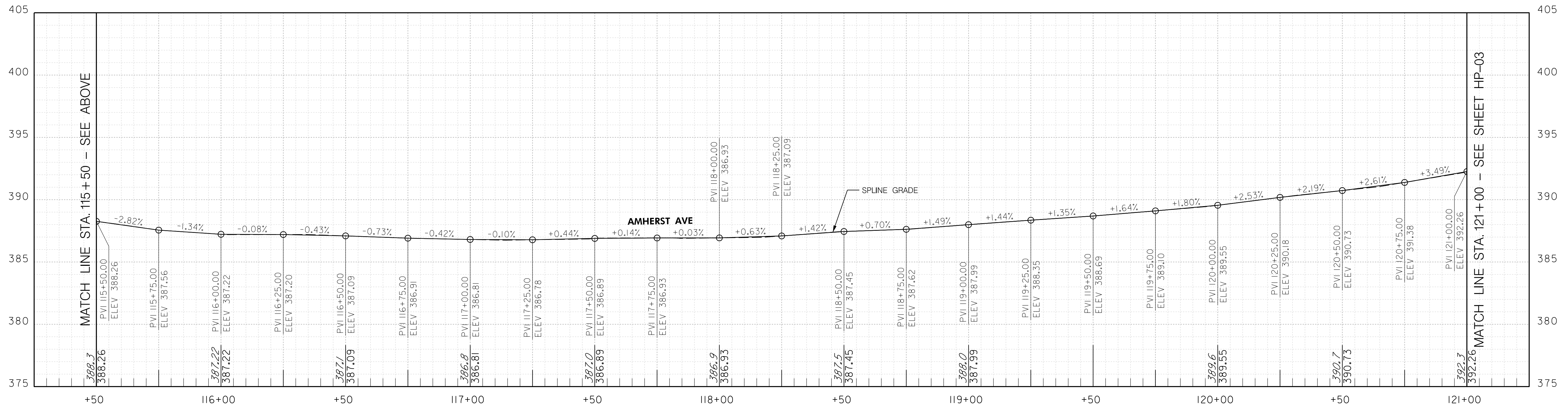
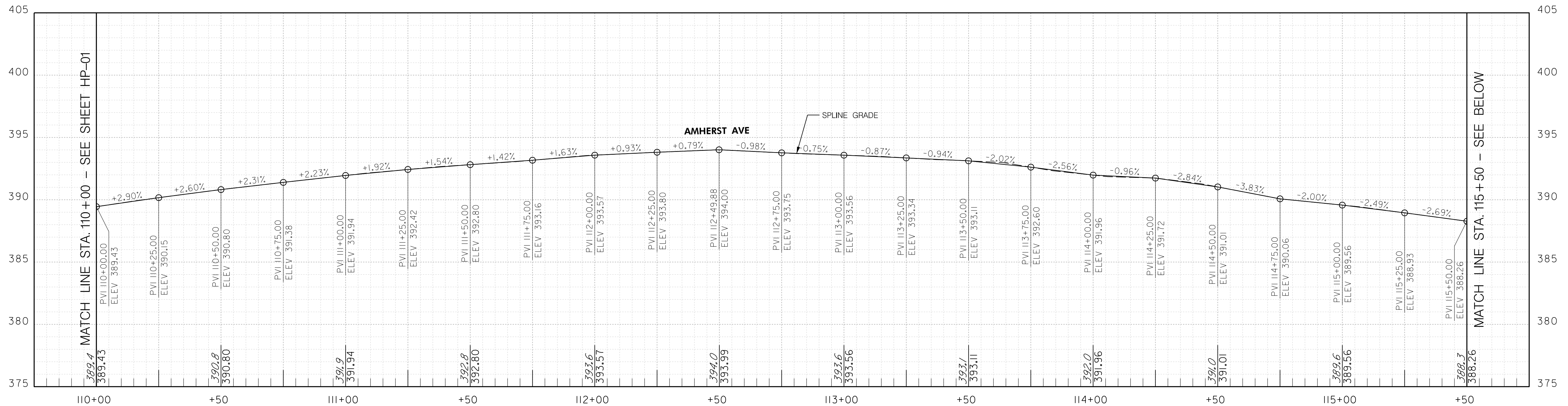
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HP-01

10/9/2023
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Chief, Design Section	Date
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Chief, Division of Transportation Engineering	Date

DEPARTMENT OF TRANSPORTATION
 DIVISION OF TRANSPORTATION ENGINEERING
 MONTGOMERY COUNTY, MARYLAND

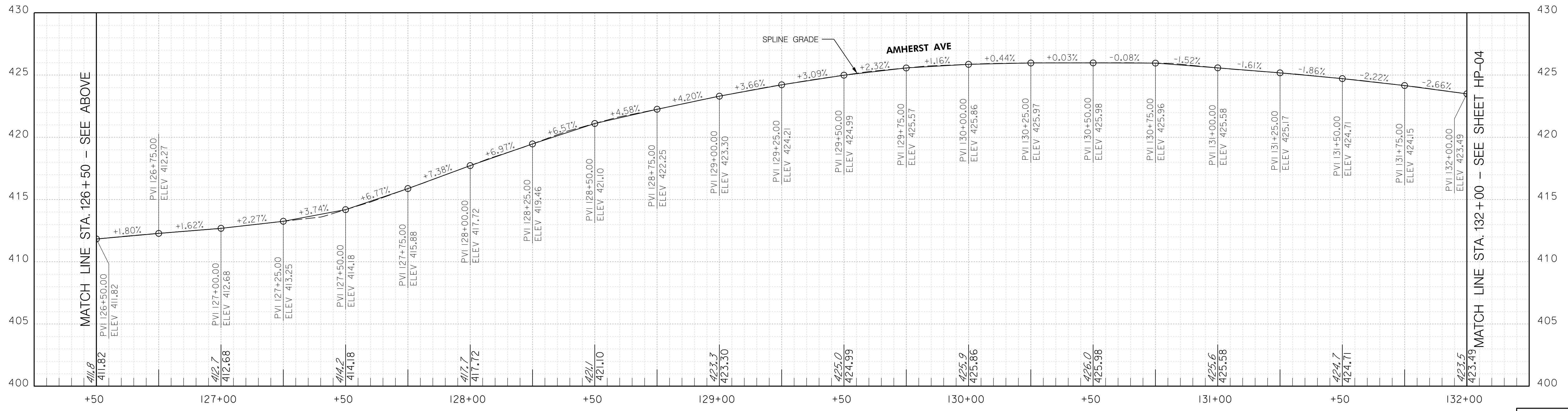
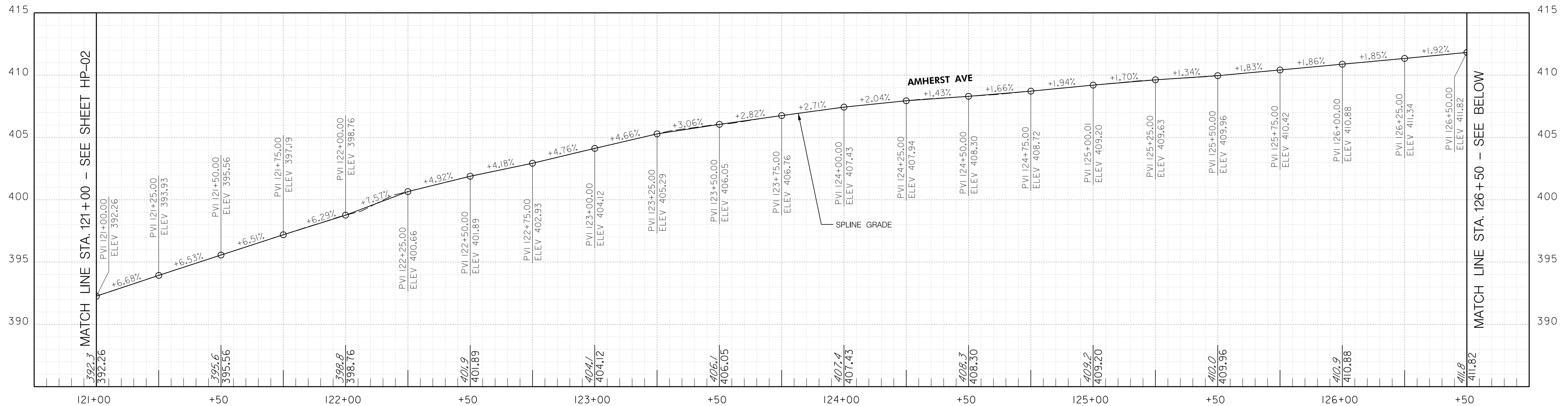
AMHERST AVE CYCLE TRACK
 ROADWAY PROFILE

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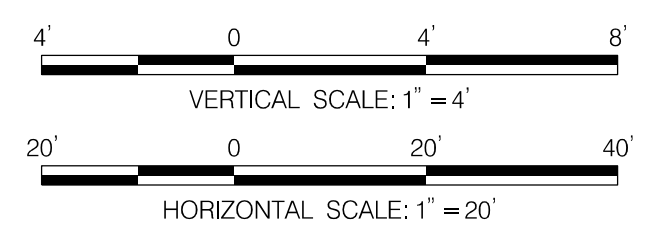


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HP-03



NO.	REVISION	BY	APP'D	DATE

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APPROVED	
Chief, Division of Transportation Engineering	Date

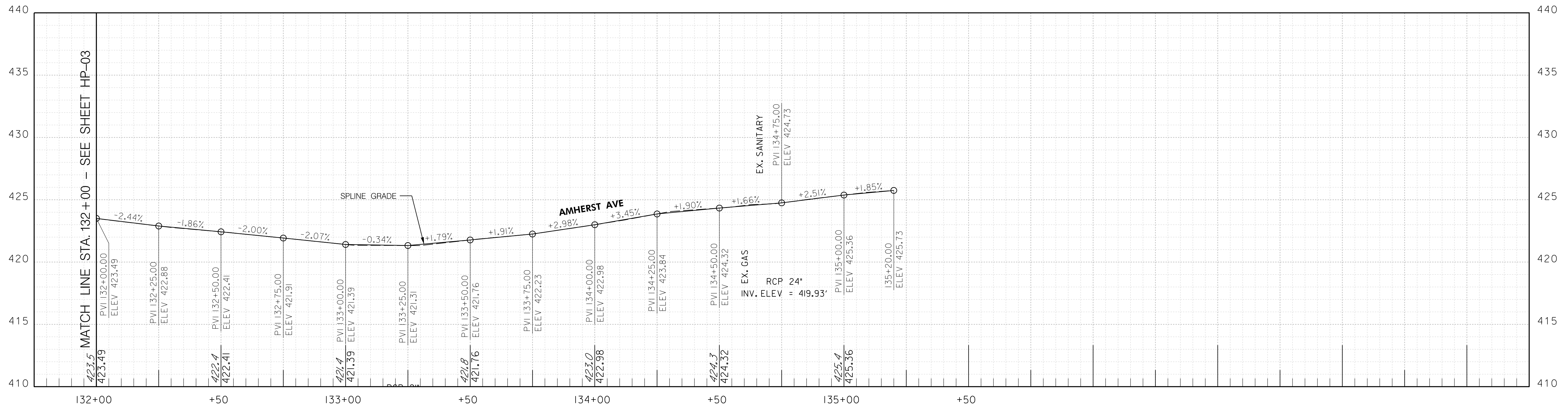
DEPARTMENT OF TRANSPORTATION
 DIVISION OF TRANSPORTATION ENGINEERING
 MONTGOMERY COUNTY, MARYLAND

AMHERST AVE CYCLE TRACK
 ROADWAY PROFILE

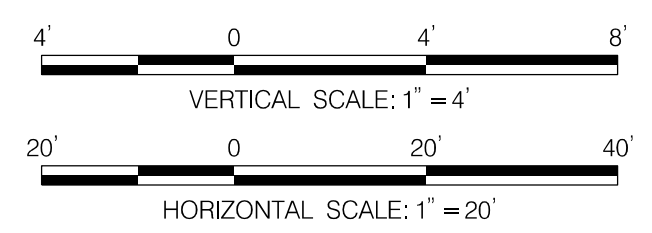
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HP-04



NO.	REVISION	BY	APP'D	DATE

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RECOMMENDED FOR APPROVAL

Chief, Design Section _____ Date _____

APPROVED

Chief, Division of Transportation Engineering _____ Date _____

DEPARTMENT OF TRANSPORTATION
 DIVISION OF TRANSPORTATION ENGINEERING
 MONTGOMERY COUNTY, MARYLAND

AMHERST AVE CYCLE TRACK
 ROADWAY PROFILE

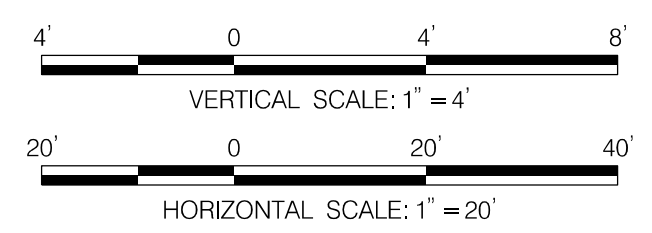
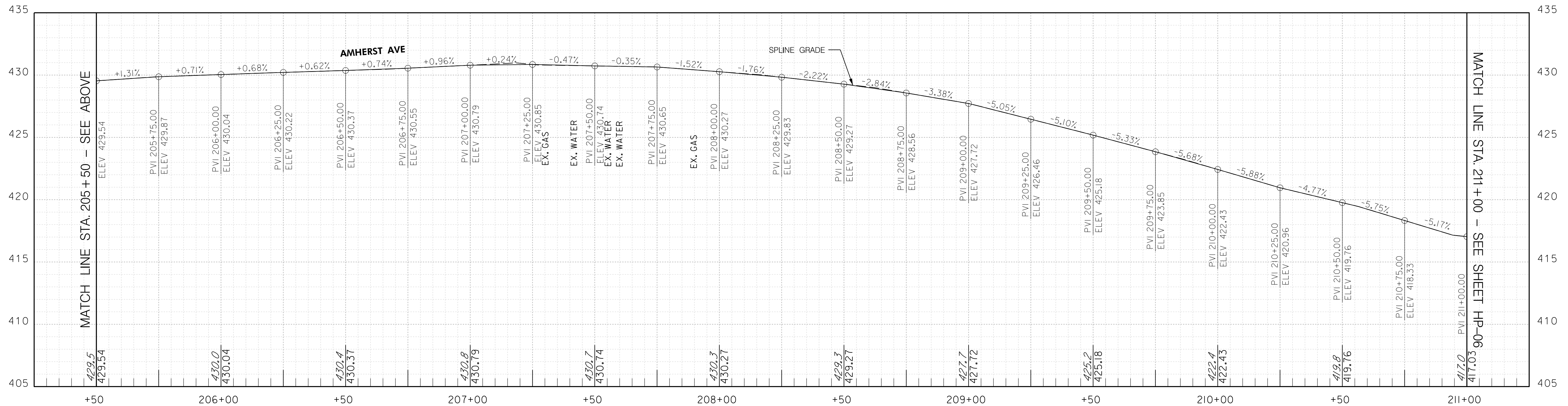
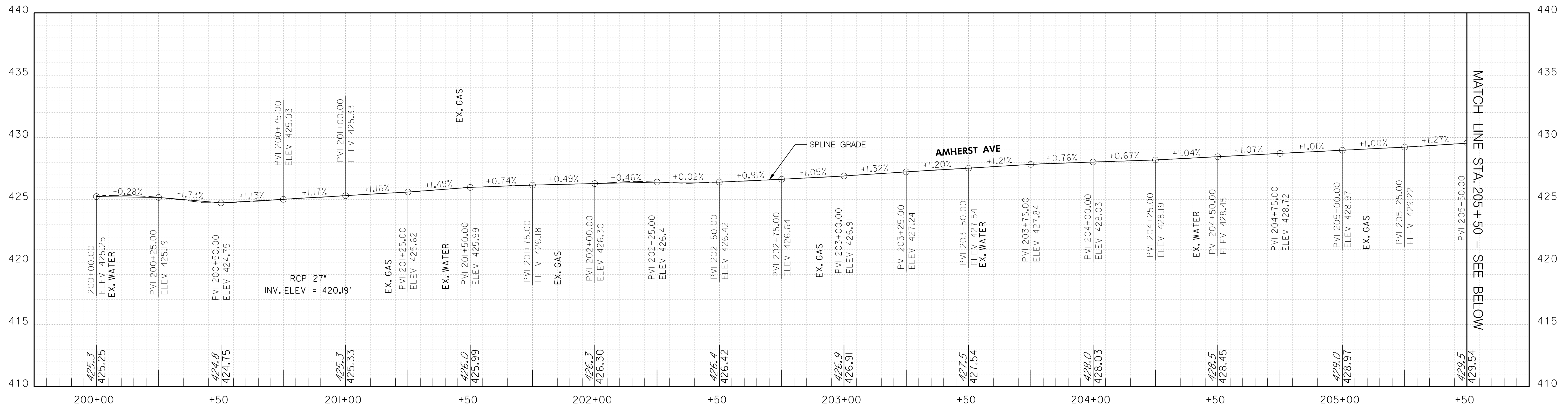


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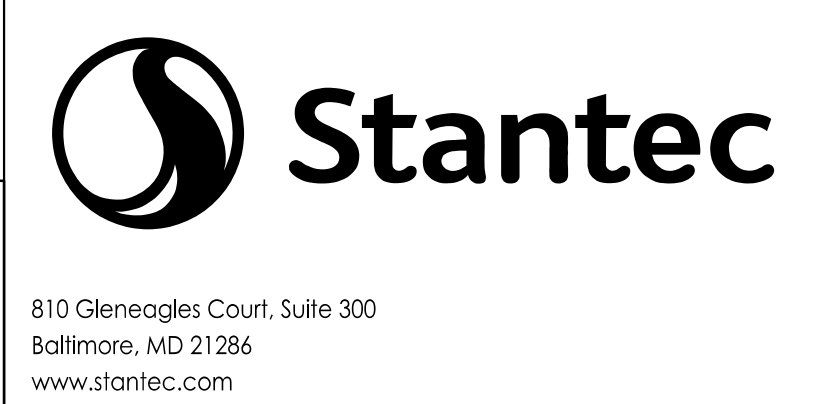
DEPARTMENT OF TRANSPORTATION
 DIVISION OF TRANSPORTATION ENGINEERING
 MONTGOMERY COUNTY, MARYLAND

AMHERST AVE CYCLE TRACK
 ROADWAY PROFILE

SCALE: H 1" = 20'; V 1" = 4'

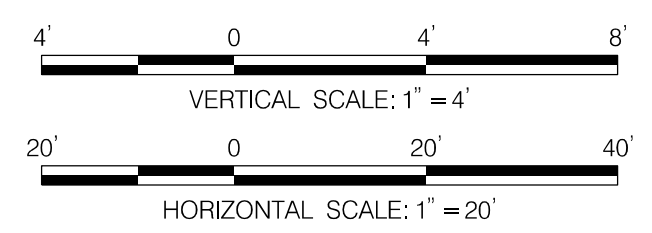
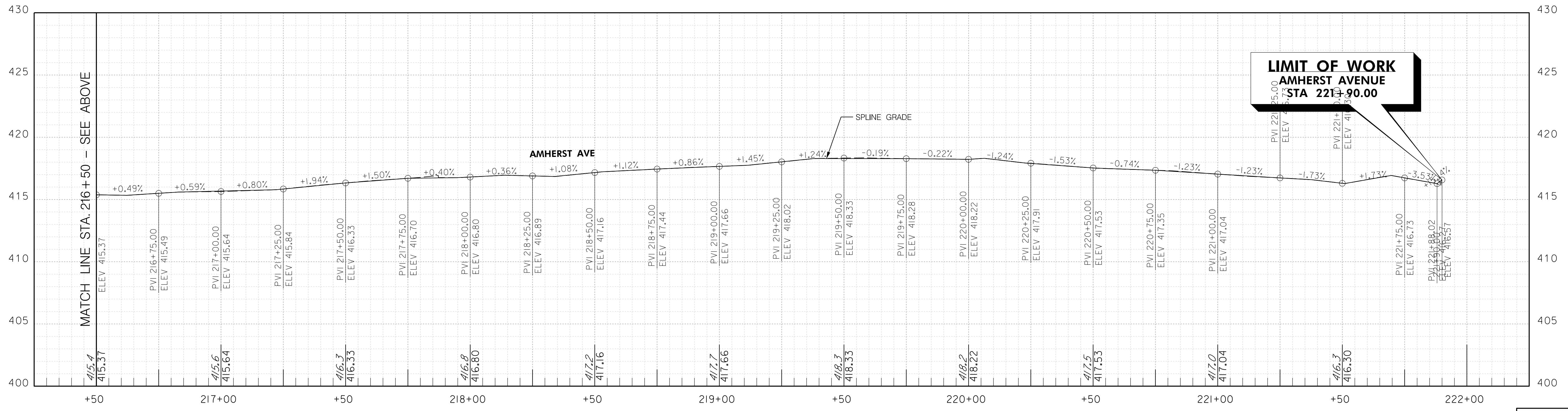
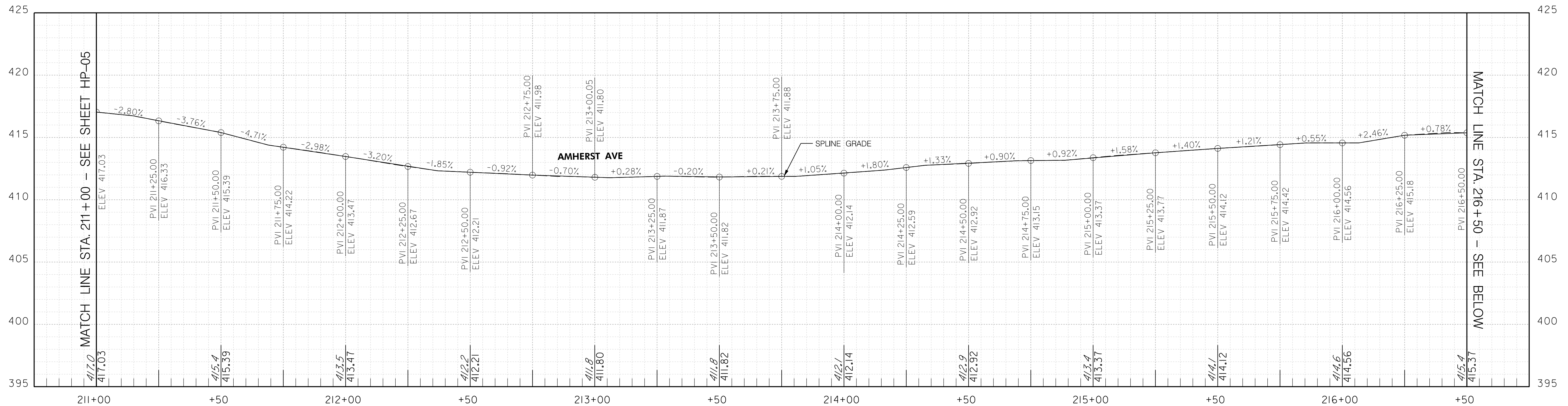
SHEET 30 of 208

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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 Baltimore, MD 21286
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10/9/2023 U:\2026\213141\700 CADD\700 Sheet\pHP-0006_AmherstAve.dgn



NO.	REVISION	BY	APP'D	DATE

DESIGNED BY: UMK	DATE: OCTOBER, 2023
DRAWN BY: UMK	DATE: OCTOBER, 2023
CHECKED BY: SJZ	DATE: OCTOBER, 2023
DRAWING NO.:	DATE:

RECOMMENDED FOR APPROVAL	
Chief, Design Section _____	Date _____
APPROVED	
Chief, Division of Transportation Engineering _____	Date _____

DEPARTMENT OF TRANSPORTATION
DIVISION OF TRANSPORTATION ENGINEERING
MONTGOMERY COUNTY, MARYLAND

AMHERST AVE CYCLE TRACK
ROADWAY PROFILE

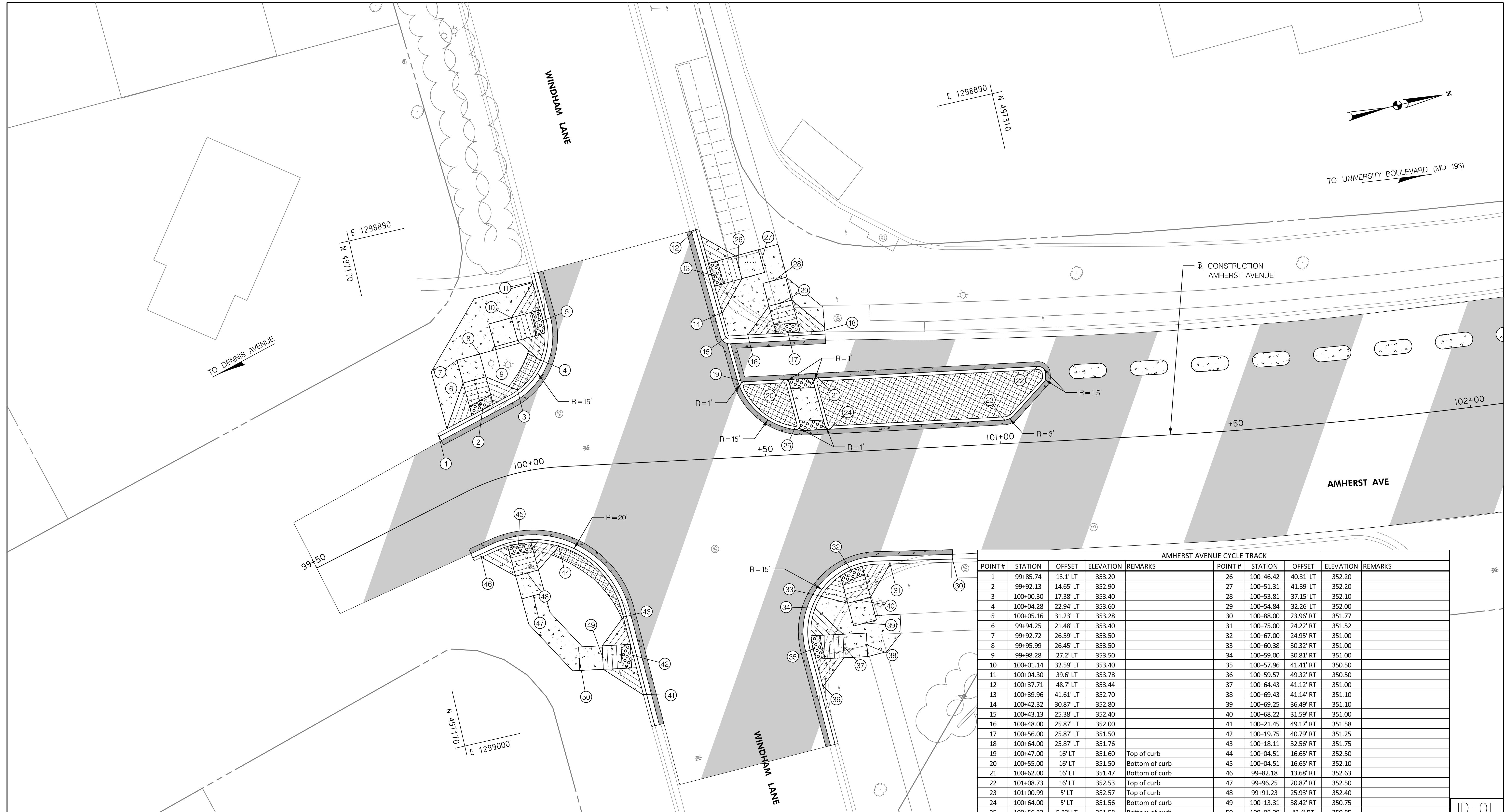
PROFESSIONAL CERTIFICATION:
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HP-06

10/9/2023 UA:\2026213141\700 CADD\700 Sheet\p1d\DOO1_AmherstAve.dgn



AMHERST AVENUE CYCLE TRACK									
POINT #	STATION	OFFSET	ELEVATION	REMARKS	POINT #	STATION	OFFSET	ELEVATION	REMARKS
1	99+85.74	13.1' LT	353.20		26	100+46.42	40.31' LT	352.20	
2	99+92.13	14.65' LT	352.90		27	100+51.31	41.39' LT	352.20	
3	100+00.30	17.38' LT	353.40		28	100+53.81	37.15' LT	352.10	
4	100+04.28	22.94' LT	353.60		29	100+54.84	32.26' LT	352.00	
5	100+05.16	31.23' LT	353.28		30	100+88.00	23.96' RT	351.77	
6	99+94.25	21.48' LT	353.40		31	100+75.00	24.22' RT	351.52	
7	99+92.72	26.59' LT	353.50		32	100+67.00	24.95' RT	351.00	
8	99+95.99	26.45' LT	353.50		33	100+60.38	30.32' RT	351.00	
9	99+98.28	27.2' LT	353.50		34	100+59.00	30.81' RT	351.00	
10	100+01.14	32.59' LT	353.40		35	100+57.96	41.41' RT	350.50	
11	100+04.30	39.6' LT	353.78		36	100+59.57	49.32' RT	350.50	
12	100+37.71	48.7' LT	353.44		37	100+64.43	41.12' RT	351.00	
13	100+39.96	41.61' LT	352.70		38	100+69.43	41.14' RT	351.10	
14	100+42.32	30.87' LT	352.80		39	100+69.25	36.49' RT	351.10	
15	100+43.13	25.38' LT	352.40		40	100+68.22	31.59' RT	351.00	
16	100+48.00	25.87' LT	352.00		41	100+21.45	49.17' RT	351.58	
17	100+56.00	25.87' LT	351.50		42	100+19.75	40.79' RT	351.25	
18	100+64.00	25.87' LT	351.76		43	100+18.11	32.56' RT	351.75	
19	100+47.00	16' LT	351.60	Top of curb	44	100+04.51	16.65' RT	352.50	
20	100+55.00	16' LT	351.50	Bottom of curb	45	100+04.51	16.65' RT	352.10	
21	100+62.00	16' LT	351.47	Bottom of curb	46	99+82.18	13.68' RT	352.63	
22	101+08.73	16' LT	352.53	Top of curb	47	99+96.25	20.87' RT	352.50	
23	101+00.99	5' LT	352.57	Top of curb	48	99+91.23	25.93' RT	352.40	
24	100+64.00	5' LT	351.56	Bottom of curb	49	100+13.31	38.42' RT	350.75	
25	100+56.33	5.33' LT	351.58	Bottom of curb	50	100+08.29	43.4' RT	350.85	

NO.	REVISION	BY	APP'D	DATE

DESIGNED BY: UMK DATE: OCTOBER, 2023
 DRAWN BY: UMK DATE: OCTOBER, 2023
 CHECKED BY: SJZ DATE: OCTOBER, 2023
 DRAWING NO.: DATE: _____
 RECOMMENDED FOR APPROVAL
 Chief, Design Section _____ Date _____
 APPROVED
 Chief, Division of Transportation Engineering _____ Date _____

DEPARTMENT OF TRANSPORTATION
 DIVISION OF TRANSPORTATION ENGINEERING
 MONTGOMERY COUNTY, MARYLAND

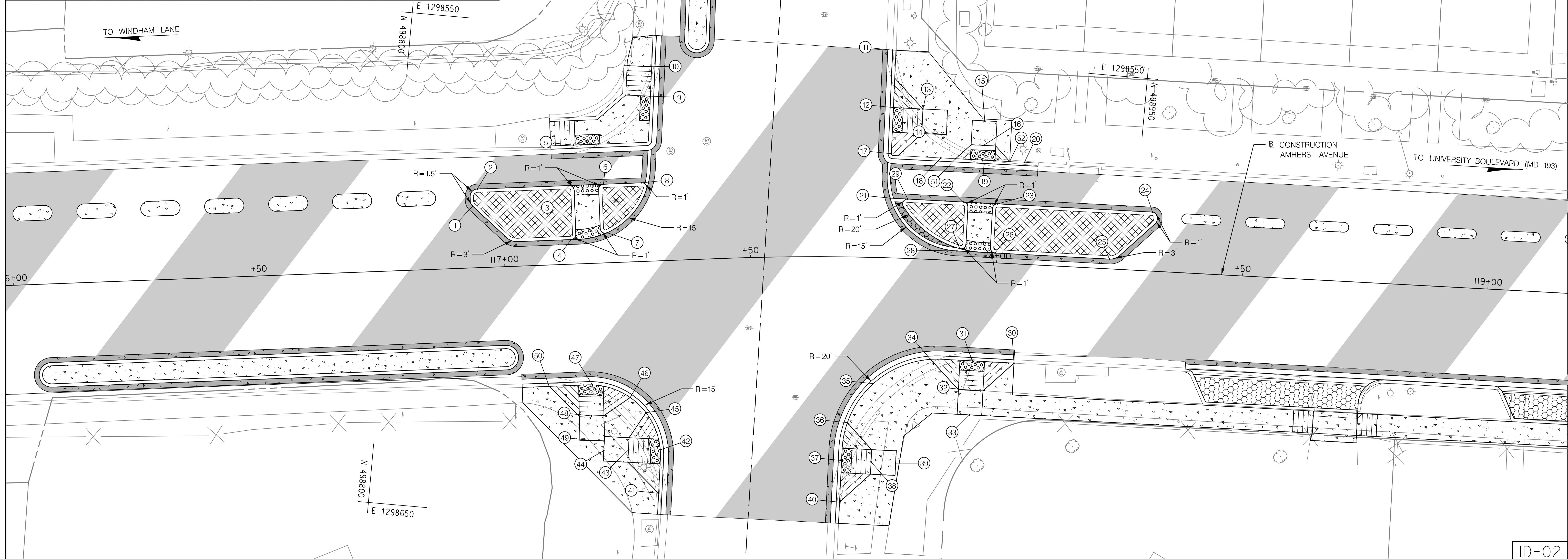
AMHERST AVE CYCLE TRACK
 INTERSECTION DETAIL
 SCALE: 1" = 10' SHEET 32 of 208

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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AMHERST AVENUE CYCLE TRACK									
POINT #	STATION	OFFSET	ELEVATION	REMARKS	POINT #	STATION	OFFSET	ELEVATION	REMARKS
1	116+94.00	13.06' LT	387.02	Top of curb	27	117+93.00	2.58' LT	387.44	Top of curb
2	116+95.00	15.42' LT	386.94	Top of curb	28	117+91.83	2' LT	387.19	Top of truck apron
3	117+14.00	15.42' LT	386.61	Bottom of curb	29	117+81.00	11.49' LT	387.90	Top of curb
4	117+14.00	5.58' LT	386.73	Bottom of curb	30	118+05.00	20.15' RT	386.87	
5	117+15.00	24.19' LT	386.45		31	117+96.00	20.17' RT	386.17	
6	117+21.00	16' LT	386.50	Bottom of curb	32	117+96.00	27.17' RT	386.40	
7	117+21.00	6.68' LT	386.83	Bottom of curb	33	117+96.00	31.67' RT	386.40	
8	117+28.00	15.42' LT	387.58	Top of curb	34	117+88.00	20.25' RT	386.38	
9	117+30.87	33.54' LT	387.73		35	117+75.00	25.58' RT	386.01	
10	117+31.36	39.52' LT	388.23		36	117+69.00	33.44' RT	385.65	
11	117+77.63	42.25' LT	386.93		37	117+69.11	41.44' RT	385.10	
12	117+78.09	30.57' LT	387.14		38	117+75.49	41.6' RT	385.20	
13	117+83.75	30.51' LT	387.20		39	117+80.95	41.7' RT	385.30	
14	117+88.00	25.72' LT	387.20		40	117+68.60	49.91' RT	384.70	
15	117+96.05	31.73' LT	387.20		41	117+29.48	47.25' RT	384.33	
16	117+96.06	26.73' LT	387.13		42	117+30.13	38.44' RT	384.70	
17	117+78.81	20.83' LT	387.74		43	117+23.69	38.21' RT	385.20	
18	117+88.00	20.72' LT	387.60		44	117+18.67	38.15' RT	385.30	
19	117+96.00	20.73' LT	387.10		45	117+28.00	30.3' RT	385.90	
20	118+05.00	20.74' LT	387.45		46	117+25.00	27.57' RT	386.16	
21	117+79.00	12.12' LT	387.65	Top of truck apron	47	117+17.00	24.71' RT	385.78	
22	117+93.00	12' LT	387.00	Bottom of curb	48	117+16.00	29.67' RT	385.50	
23	117+99.00	12' LT	387.10	Bottom of curb	49	117+16.38	36' RT	385.40	
24	118+31.00	11.42' LT	387.52	Top of curb	50	117+08.00	24.67' RT	386.34	
25	118+22.86	2.58' LT	387.53	Top of curb	51	117+91.44	20.74' LT	387.35	
26	117+99.00	2' LT	387.00	Bottom of curb	52	118+01.56	20.74' LT	387.35	



10/9/2023 \\US1527-F01\shared\projects\202621314\700 CADD\700 Sheet\pHD-D002_AmherstAve.dgn

PROFESSIONAL CERTIFICATION:
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 OF MARYLAND.
 LICENSE NO: _____ EXPIRATION DATE: _____



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 Baltimore, MD 21286
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NO.	REVISION	BY	APP'D	DATE

DESIGNED BY: UMK	DATE: OCTOBER, 2023
DRAWN BY: UMK	DATE: OCTOBER, 2023
CHECKED BY: SJZ	DATE: OCTOBER, 2023
DRAWING NO.:	DATE:
RECOMMENDED FOR APPROVAL	
Chief, Design Section _____	Date _____
APPROVED	
Chief, Division of Transportation Engineering _____	Date _____

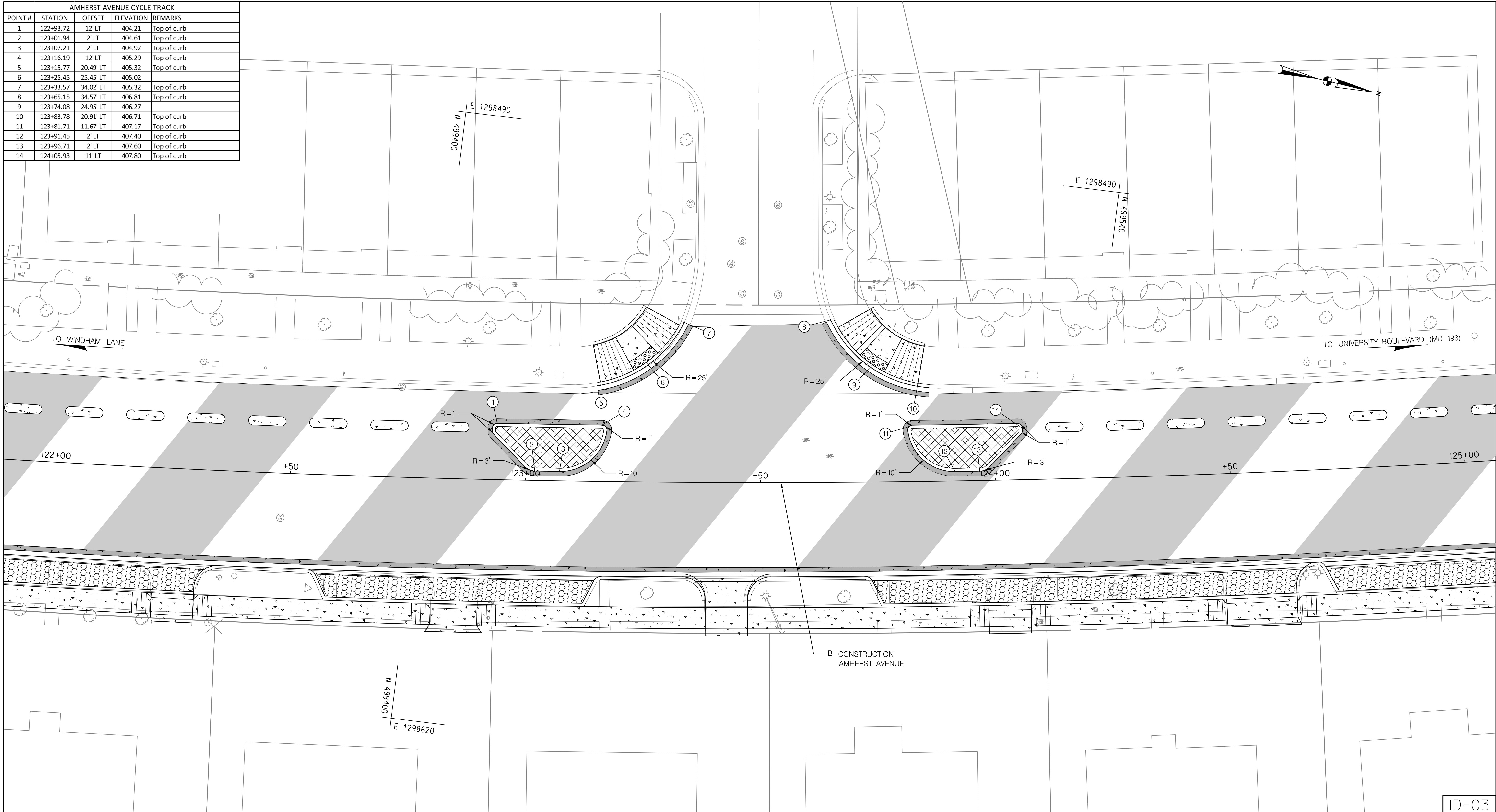
DEPARTMENT OF TRANSPORTATION
DIVISION OF TRANSPORTATION ENGINEERING
MONTGOMERY COUNTY, MARYLAND

AMHERST AVE CYCLE TRACK
 INTERSECTION DETAIL

SCALE: 1" = 10'
 SHEET 33 of 208

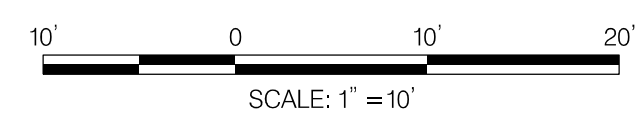
ID-02

AMHERST AVENUE CYCLE TRACK				
POINT#	STATION	OFFSET	ELEVATION	REMARKS
1	122+93.72	12' LT	404.21	Top of curb
2	123+01.94	2' LT	404.61	Top of curb
3	123+07.21	2' LT	404.92	Top of curb
4	123+16.19	12' LT	405.29	Top of curb
5	123+15.77	20.49' LT	405.32	Top of curb
6	123+25.45	25.45' LT	405.02	
7	123+33.57	34.02' LT	405.32	Top of curb
8	123+65.15	34.57' LT	406.81	Top of curb
9	123+74.08	24.95' LT	406.27	
10	123+83.78	20.91' LT	406.71	Top of curb
11	123+81.71	11.67' LT	407.17	Top of curb
12	123+91.45	2' LT	407.40	Top of curb
13	123+96.71	2' LT	407.60	Top of curb
14	124+05.93	11' LT	407.80	Top of curb



10/9/2023 U:\202621314\700 CADD\700 Sheet\pHD-0003_AmherstAve.dgn

ID-03



NO.	REVISION	BY	APP'D	DATE

DESIGNED BY: UMK	DATE: OCTOBER, 2023
DRAWN BY: UMK	DATE: OCTOBER, 2023
CHECKED BY: SJZ	DATE: OCTOBER, 2023
DRAWING NO.:	DATE:

RECOMMENDED FOR APPROVAL

Chief, Design Section _____ Date _____

APPROVED

Chief, Division of Transportation Engineering _____ Date _____

DEPARTMENT OF TRANSPORTATION
DIVISION OF TRANSPORTATION ENGINEERING
MONTGOMERY COUNTY, MARYLAND

AMHERST AVE CYCLE TRACK
INTERSECTION DETAIL

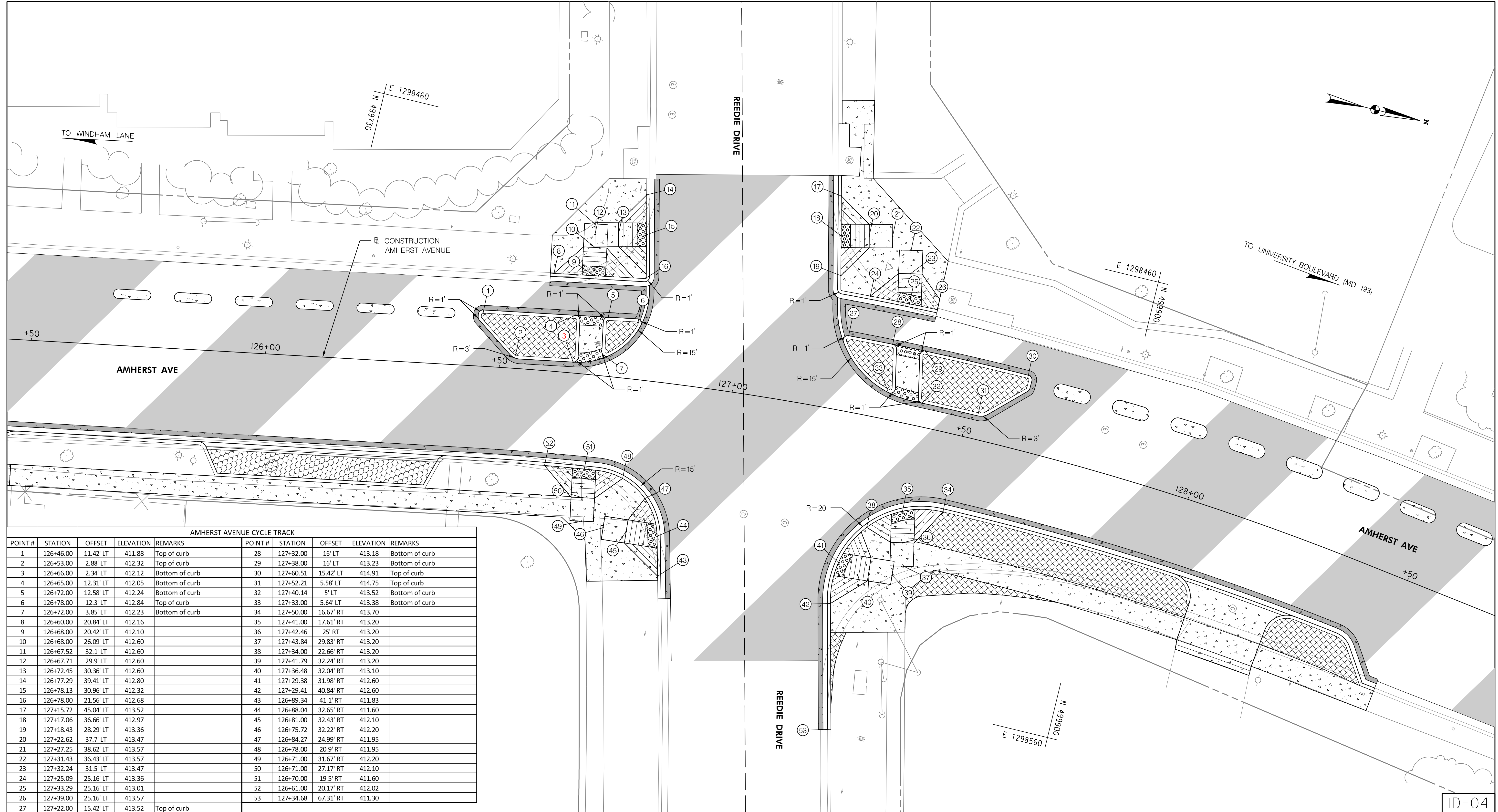
PROFESSIONAL CERTIFICATION:
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LICENSE NO: _____ EXPIRATION DATE: _____



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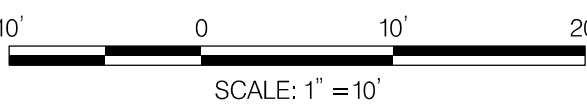


10/9/2023
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AMHERST AVENUE CYCLE TRACK

POINT #	STATION	OFFSET	ELEVATION	REMARKS	POINT #	STATION	OFFSET	ELEVATION	REMARKS
1	126+46.00	11.42' LT	411.88	Top of curb	28	127+32.00	16' LT	413.18	Bottom of curb
2	126+53.00	2.88' LT	412.32	Top of curb	29	127+38.00	16' LT	413.23	Bottom of curb
3	126+66.00	2.34' LT	412.12	Bottom of curb	30	127+60.51	15.42' LT	414.91	Top of curb
4	126+65.00	12.31' LT	412.05	Bottom of curb	31	127+52.21	5.58' LT	414.75	Top of curb
5	126+72.00	12.58' LT	412.24	Bottom of curb	32	127+40.14	5' LT	413.52	Bottom of curb
6	126+78.00	12.3' LT	412.84	Top of curb	33	127+33.00	5.64' LT	413.38	Bottom of curb
7	126+72.00	3.85' LT	412.23	Bottom of curb	34	127+50.00	16.67' RT	413.70	
8	126+60.00	20.84' LT	412.16		35	127+41.00	17.61' RT	413.20	
9	126+68.00	20.42' LT	412.10		36	127+42.46	25' RT	413.20	
10	126+68.00	26.09' LT	412.60		37	127+43.84	29.83' RT	413.20	
11	126+67.52	32.1' LT	412.60		38	127+34.00	22.66' RT	413.20	
12	126+67.71	29.9' LT	412.60		39	127+41.79	32.24' RT	413.20	
13	126+72.45	30.36' LT	412.60		40	127+36.48	32.04' RT	413.10	
14	126+77.29	39.41' LT	412.80		41	127+29.38	31.98' RT	412.60	
15	126+78.13	30.96' LT	412.32		42	127+29.41	40.84' RT	412.60	
16	126+78.00	21.56' LT	412.68		43	126+89.34	41.1' RT	411.83	
17	127+15.72	45.04' LT	413.52		44	126+88.04	32.65' RT	411.60	
18	127+17.06	36.66' LT	412.97		45	126+81.00	32.43' RT	412.10	
19	127+18.43	28.29' LT	413.36		46	126+75.72	32.22' RT	412.20	
20	127+22.62	37.7' LT	413.47		47	126+84.27	24.99' RT	411.95	
21	127+27.25	38.62' LT	413.57		48	126+78.00	20.9' RT	411.95	
22	127+31.43	36.43' LT	413.57		49	126+71.00	31.67' RT	412.20	
23	127+32.24	31.5' LT	413.47		50	126+71.00	27.17' RT	412.10	
24	127+25.09	25.16' LT	413.36		51	126+70.00	19.5' RT	411.60	
25	127+33.29	25.16' LT	413.01		52	126+61.00	20.17' RT	412.02	
26	127+39.00	25.16' LT	413.57		53	127+34.68	67.31' RT	411.30	
27	127+22.00	15.42' LT	413.52	Top of curb					



NO.	REVISION	BY	APP'D	DATE

DESIGNED BY: UMK	DATE: OCTOBER, 2023
DRAWN BY: UMK	DATE: OCTOBER, 2023
CHECKED BY: SJZ	DATE: OCTOBER, 2023
DRAWING NO.:	DATE:

RECOMMENDED FOR APPROVAL

Chief, Design Section _____ Date _____

APPROVED

Chief, Division of Transportation Engineering _____ Date _____

DEPARTMENT OF TRANSPORTATION
 DIVISION OF TRANSPORTATION ENGINEERING
 MONTGOMERY COUNTY, MARYLAND

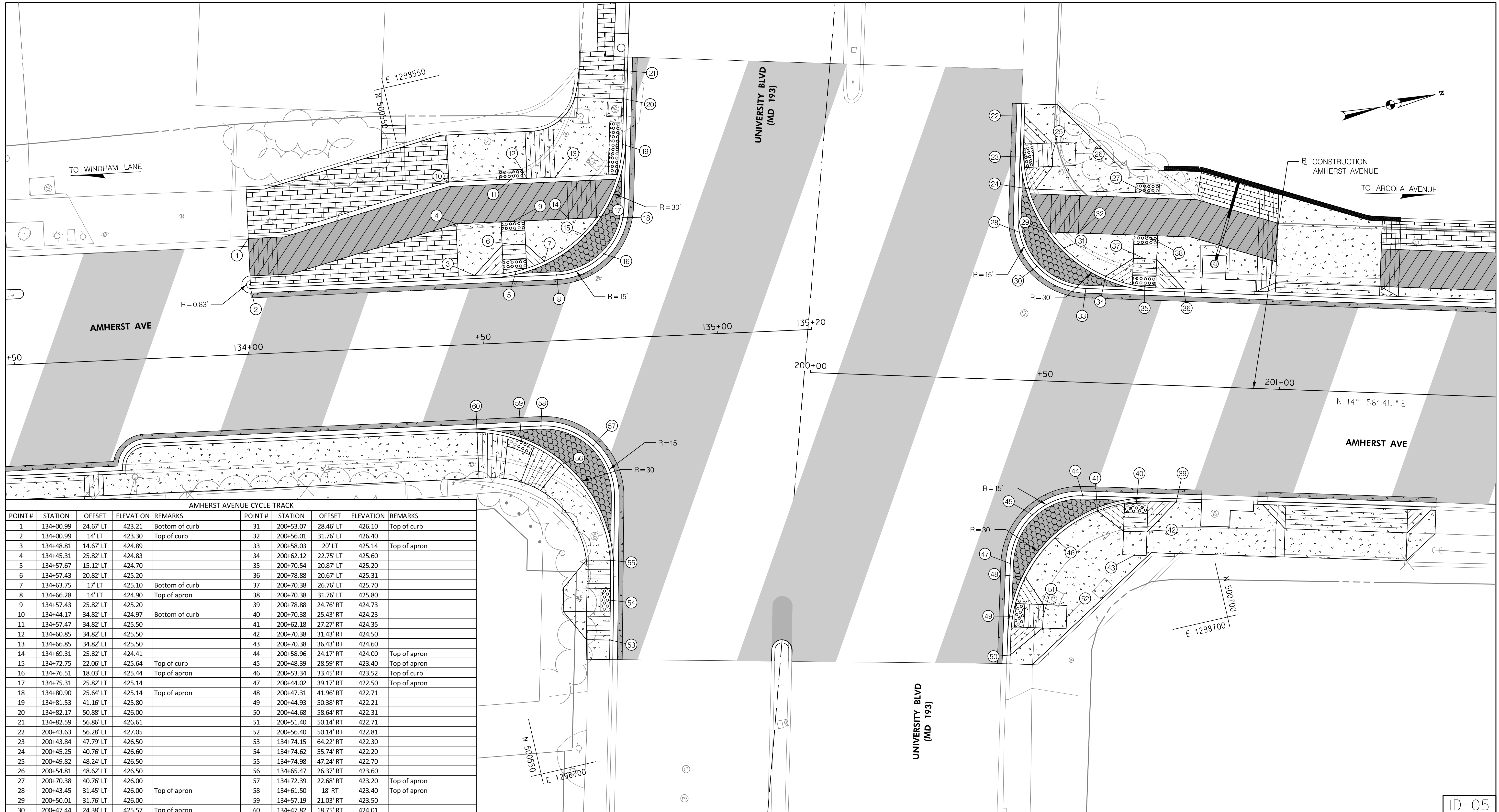
AMHERST AVE CYCLE TRACK
 INTERSECTION DETAIL

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

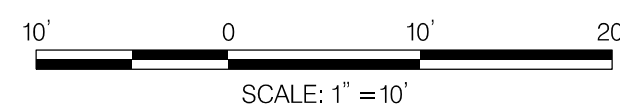
BIPPA
 Bicycle and Pedestrian Priority Areas

PROFESSIONAL CERTIFICATION:
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 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: _____

10/9/2023
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AMHERST AVENUE CYCLE TRACK									
POINT #	STATION	OFFSET	ELEVATION	REMARKS	POINT #	STATION	OFFSET	ELEVATION	REMARKS
1	134+00.99	24.67' LT	423.21	Bottom of curb	31	200+53.07	28.46' LT	426.10	Top of curb
2	134+00.99	14' LT	423.30	Top of curb	32	200+56.01	31.76' LT	426.40	
3	134+48.81	14.67' LT	424.89		33	200+58.03	20' LT	425.14	Top of apron
4	134+45.31	25.82' LT	424.83		34	200+62.12	22.75' LT	425.60	
5	134+57.67	15.12' LT	424.70		35	200+70.54	20.87' LT	425.20	
6	134+57.43	20.82' LT	425.20		36	200+78.88	20.67' LT	425.31	
7	134+63.75	17' LT	425.10	Bottom of curb	37	200+70.38	26.76' LT	425.70	
8	134+66.28	14' LT	424.90	Top of apron	38	200+70.38	31.76' LT	425.80	
9	134+57.43	25.82' LT	425.20		39	200+78.88	24.76' RT	424.73	
10	134+44.17	34.82' LT	424.97	Bottom of curb	40	200+70.38	25.43' RT	424.23	
11	134+57.47	34.82' LT	425.50		41	200+62.18	27.27' RT	424.35	
12	134+60.85	34.82' LT	425.50		42	200+70.38	31.43' RT	424.50	
13	134+66.85	34.82' LT	425.50		43	200+70.38	36.43' RT	424.60	
14	134+69.31	25.82' LT	424.41		44	200+58.96	24.17' RT	424.00	Top of apron
15	134+72.75	22.06' LT	425.64	Top of curb	45	200+48.39	28.59' RT	423.40	Top of apron
16	134+76.51	18.03' LT	425.44	Top of apron	46	200+53.34	33.45' RT	423.52	Top of curb
17	134+75.31	25.82' LT	425.14		47	200+44.02	39.17' RT	422.50	Top of apron
18	134+80.90	25.64' LT	425.14	Top of apron	48	200+47.31	41.96' RT	422.71	
19	134+81.53	41.16' LT	425.80		49	200+44.93	50.38' RT	422.21	
20	134+82.17	50.88' LT	426.00		50	200+44.68	58.64' RT	422.31	
21	134+82.59	56.86' LT	426.61		51	200+51.40	50.14' RT	422.71	
22	200+43.63	56.28' LT	427.05		52	200+56.40	50.14' RT	422.81	
23	200+43.84	47.79' LT	426.50		53	134+74.15	64.22' RT	422.30	
24	200+45.25	40.76' LT	426.60		54	134+74.62	55.74' RT	422.20	
25	200+49.82	48.24' LT	426.50		55	134+74.98	47.24' RT	422.70	
26	200+54.81	48.62' LT	426.50		56	134+65.47	26.37' RT	423.60	
27	200+70.38	40.76' LT	426.00		57	134+72.39	22.68' RT	423.20	Top of apron
28	200+43.45	31.45' LT	426.00	Top of apron	58	134+61.50	18' RT	423.40	Top of apron
29	200+50.01	31.76' LT	426.00		59	134+57.19	21.03' RT	423.50	
30	200+47.44	24.38' LT	425.57	Top of apron	60	134+47.82	18.75' RT	424.01	



NO.	REVISION	BY	APP'D	DATE

DESIGNED BY: UMK	DATE: OCTOBER, 2023
DRAWN BY: UMK	DATE: OCTOBER, 2023
CHECKED BY: SJZ	DATE: OCTOBER, 2023
DRAWING NO.:	DATE:
RECOMMENDED FOR APPROVAL	
Chief, Design Section _____	Date _____
APPROVED	
Chief, Division of Transportation Engineering _____	Date _____

DEPARTMENT OF TRANSPORTATION
 DIVISION OF TRANSPORTATION ENGINEERING
 MONTGOMERY COUNTY, MARYLAND

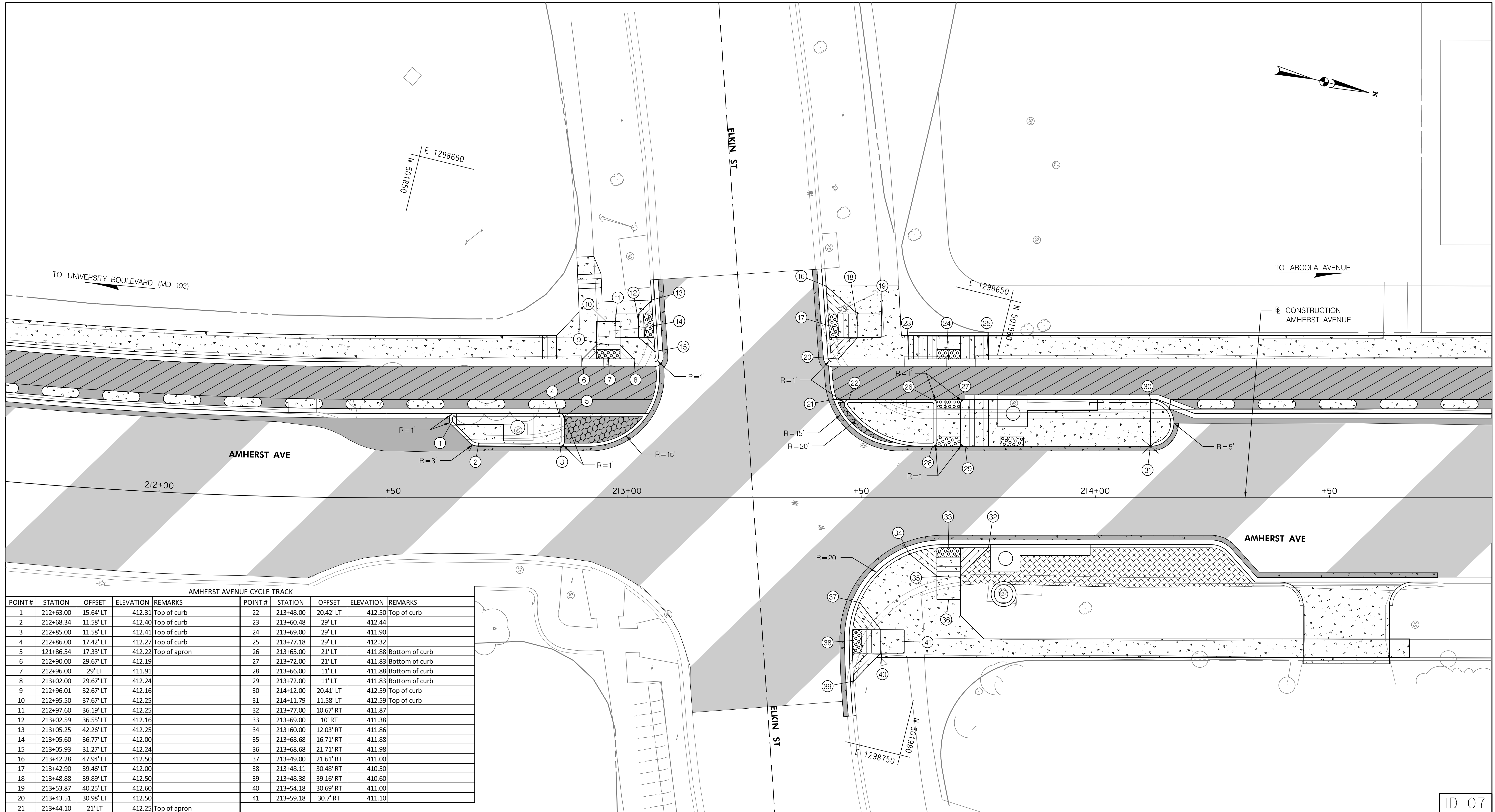
AMHERST AVE CYCLE TRACK
 INTERSECTION DETAIL



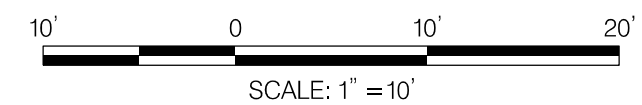
PROFESSIONAL CERTIFICATION:
 I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED
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 PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE
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 Baltimore, MD 21286
 www.stantec.com

ID-05



AMHERST AVENUE CYCLE TRACK									
POINT #	STATION	OFFSET	ELEVATION	REMARKS	POINT #	STATION	OFFSET	ELEVATION	REMARKS
1	212+63.00	15.64' LT	412.31	Top of curb	22	213+48.00	20.42' LT	412.50	Top of curb
2	212+68.34	11.58' LT	412.40	Top of curb	23	213+60.48	29' LT	412.44	
3	212+85.00	11.58' LT	412.41	Top of curb	24	213+69.00	29' LT	411.90	
4	212+86.00	17.42' LT	412.27	Top of curb	25	213+77.18	29' LT	412.32	
5	121+86.54	17.33' LT	412.22	Top of apron	26	213+65.00	21' LT	411.88	Bottom of curb
6	212+90.00	29.67' LT	412.19		27	213+72.00	21' LT	411.83	Bottom of curb
7	212+96.00	29' LT	411.91		28	213+66.00	11' LT	411.88	Bottom of curb
8	213+02.00	29.67' LT	412.24		29	213+72.00	11' LT	411.83	Bottom of curb
9	212+96.01	32.67' LT	412.16		30	214+12.00	20.41' LT	412.59	Top of curb
10	212+95.50	37.67' LT	412.25		31	214+11.79	11.58' LT	412.59	Top of curb
11	212+97.60	36.19' LT	412.25		32	213+77.00	10.67' RT	411.87	
12	213+02.59	36.55' LT	412.16		33	213+69.00	10' RT	411.38	
13	213+05.25	42.26' LT	412.25		34	213+60.00	12.03' RT	411.86	
14	213+05.60	36.77' LT	412.00		35	213+68.68	16.71' RT	411.88	
15	213+05.93	31.27' LT	412.24		36	213+68.68	21.71' RT	411.98	
16	213+42.28	47.94' LT	412.50		37	213+49.00	21.61' RT	411.00	
17	213+42.90	39.46' LT	412.00		38	213+48.11	30.48' RT	410.50	
18	213+48.88	39.89' LT	412.50		39	213+48.38	39.16' RT	410.60	
19	213+53.87	40.25' LT	412.60		40	213+54.18	30.69' RT	411.00	
20	213+43.51	30.98' LT	412.50		41	213+59.18	30.7' RT	411.10	
21	213+44.10	21' LT	412.25	Top of apron					



NO.	REVISION	BY	APP'D	DATE

DESIGNED BY: UMK	DATE: OCTOBER, 2023
DRAWN BY: UMK	DATE: OCTOBER, 2023
CHECKED BY: SJZ	DATE: OCTOBER, 2023
DRAWING NO.:	DATE:

RECOMMENDED FOR APPROVAL

Chief, Design Section _____ Date _____

APPROVED

Chief, Division of Transportation Engineering _____ Date _____

DEPARTMENT OF TRANSPORTATION
DIVISION OF TRANSPORTATION ENGINEERING
MONTGOMERY COUNTY, MARYLAND

AMHERST AVE CYCLE TRACK
INTERSECTION DETAIL

SCALE: 1" = 10' SHEET 38 of 208

PROFESSIONAL CERTIFICATION:
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LICENSE NO: _____ EXPIRATION DATE: _____

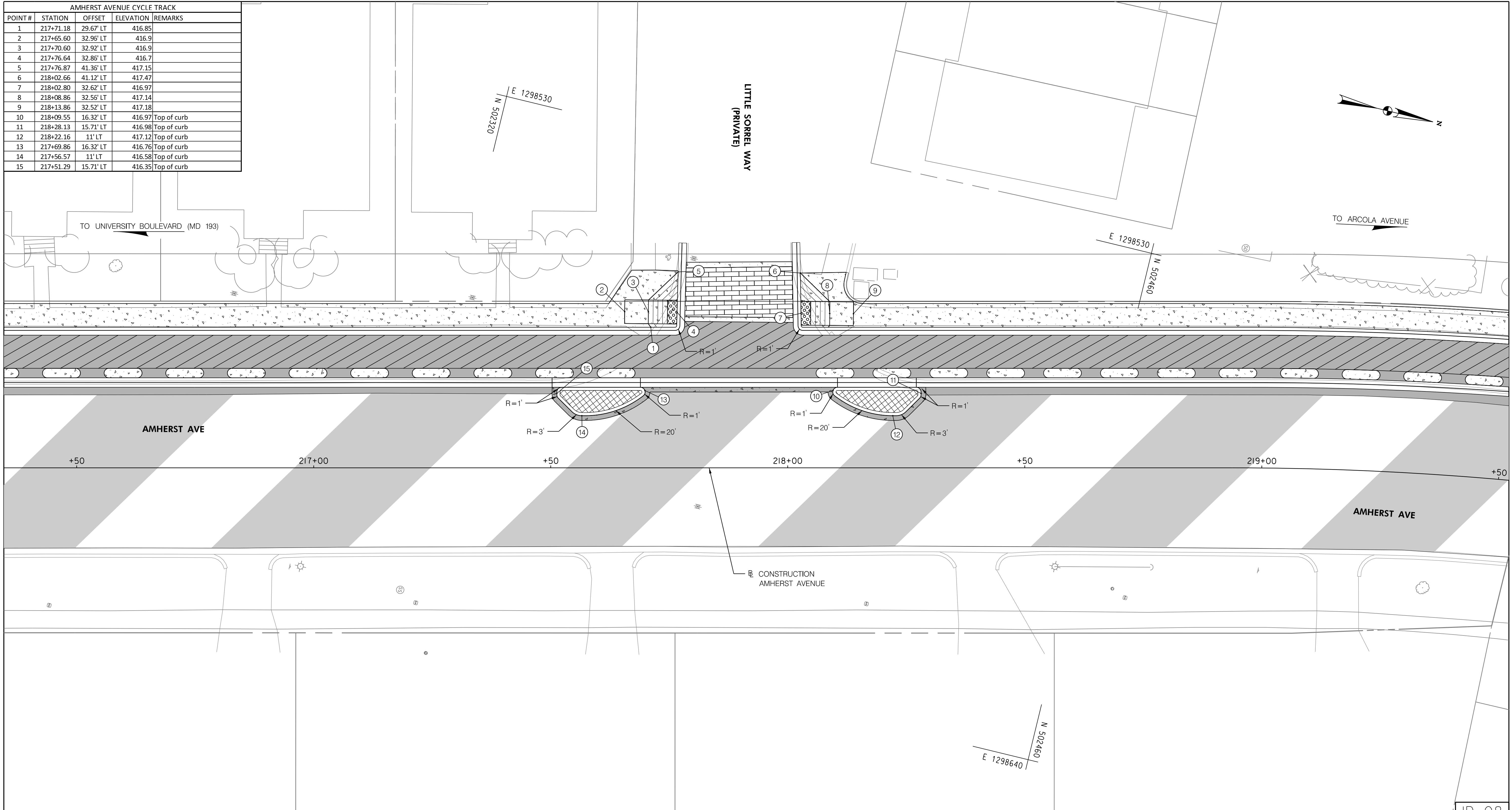


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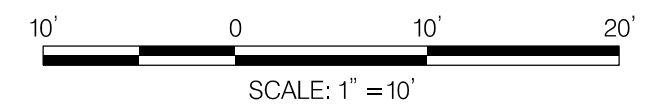
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ID-07

POINT#	STATION	OFFSET	ELEVATION	REMARKS
1	217+71.18	29.67' LT	416.85	
2	217+65.60	32.96' LT	416.9	
3	217+70.60	32.92' LT	416.9	
4	217+76.64	32.86' LT	416.7	
5	217+76.87	41.36' LT	417.15	
6	218+02.66	41.12' LT	417.47	
7	218+02.80	32.62' LT	416.97	
8	218+08.86	32.56' LT	417.14	
9	218+13.86	32.52' LT	417.18	
10	218+09.55	16.32' LT	416.97	Top of curb
11	218+28.13	15.71' LT	416.98	Top of curb
12	218+22.16	11' LT	417.12	Top of curb
13	217+69.86	16.32' LT	416.76	Top of curb
14	217+56.57	11' LT	416.58	Top of curb
15	217+51.29	15.71' LT	416.35	Top of curb



ID-08



NO.	REVISION	BY	APP'D	DATE

DESIGNED BY: UMK	DATE: OCTOBER, 2023
DRAWN BY: UMK	DATE: OCTOBER, 2023
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RECOMMENDED FOR APPROVAL	
Chief, Design Section _____	Date _____
APPROVED	
Chief, Division of Transportation Engineering _____	Date _____

DEPARTMENT OF TRANSPORTATION
DIVISION OF TRANSPORTATION ENGINEERING
MONTGOMERY COUNTY, MARYLAND

AMHERST AVE CYCLE TRACK
INTERSECTION DETAIL

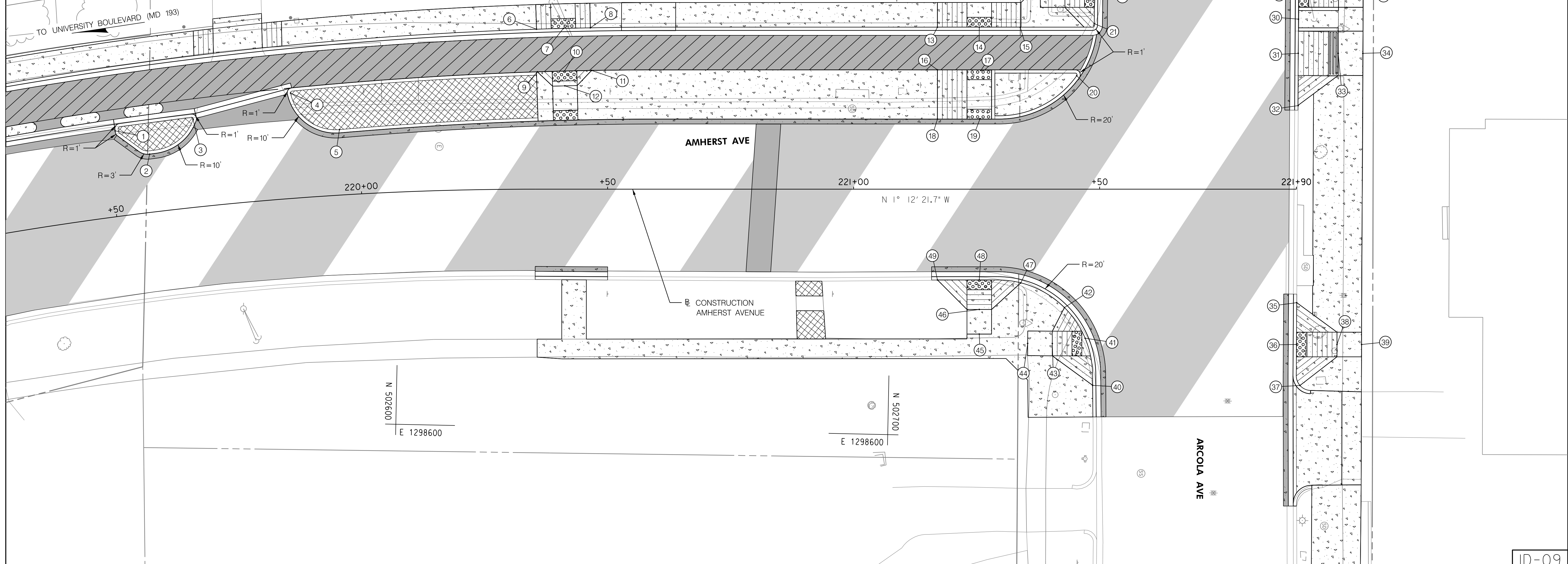


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AMHERST AVENUE CYCLE TRACK									
POINT #	STATION	OFFSET	ELEVATION	REMARKS	POINT #	STATION	OFFSET	ELEVATION	REMARKS
1	219+51.89	17.32' LT	418.26	Top of curb	26	221+90.00	47.98' LT	418.50	
2	219+58.13	11.76' LT	418.44	Top of curb	27	221+90.00	39.43' LT	417.70	
3	219+67.49	17.8' LT	418.32	Top of curb	28	221+98.24	39.45' LT	418.00	
4	219+87.10	21.35' LT	418.20	Top of curb	29	222+03.24	39.45' LT	418.10	
5	219+96.28	13.29' LT	418.10	Top of curb	30	221+90.00	34.53' LT	417.89	
6	220+35.56	32.49' LT	418.01		31	221+90.00	27.6' LT	417.40	
7	220+41.02	32.65' LT	417.67		32	221+90.00	16.97' LT	417.50	
8	220+46.49	32.77' LT	417.86		33	221+98.24	27.6' LT	418.00	
9	220+35.74	23.82' LT	418.19		34	222+03.24	27.6' LT	418.10	
10	220+41.24	23.98' LT	417.85		35	221+90.00	23.06' RT	415.75	
11	220+46.74	24.1' LT	418.04		36	221+90.00	31.54' RT	415.00	
12	220+41.32	20.98' LT	418.10		37	221+90.00	39.87' RT	415.50	
13	221+17.04	32.9' LT	417.46		38	221+98.24	31.56' RT	415.50	
14	221+25.54	32.9' LT	417.00		39	222+03.24	31.56' RT	415.60	
15	221+33.88	32.87' LT	417.50		40	221+48.58	39.85' RT	415.31	
16	221+17.04	24.23' LT	417.65		41	221+47.06	30.28' RT	415.25	
17	221+25.86	24.09' LT	417.09		42	221+42.86	24.05' RT	415.75	
18	221+17.04	14.23' LT	417.65		43	221+40.39	31.34' RT	415.75	
19	221+25.69	14.26' LT	417.09		44	221+35.39	31.32' RT	415.85	
20	221+45.35	23.04' LT	417.52		45	221+25.54	29.43' RT	416.41	
21	221+48.91	33.63' LT	418.20		46	221+25.54	24.43' RT	416.41	
22	221+48.94	39.45' LT	417.90		47	221+33.99	19.03' RT	416.42	
23	221+48.98	47.9' LT	418.40		48	221+25.54	18.43' RT	416.21	
24	221+42.95	39.45' LT	417.90		49	221+17.04	18.43' RT	416.71	
25	221+37.95	39.42' LT	417.90						



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CHECKED BY: SJZ	DATE: OCTOBER, 2023
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Chief, Design Section _____	Date _____
APPROVED	
Chief, Division of Transportation Engineering _____	Date _____

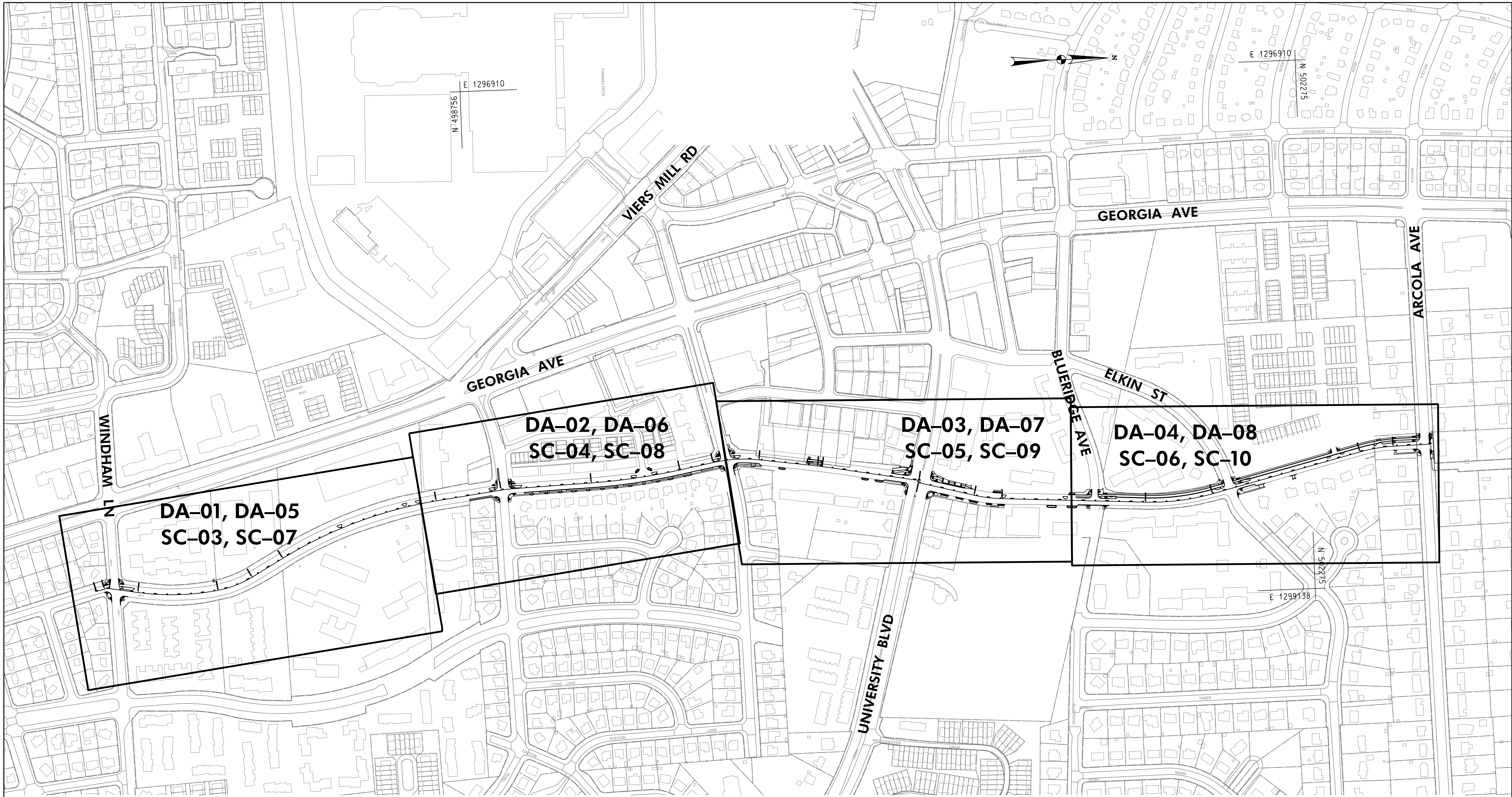
ID-09

DEPARTMENT OF TRANSPORTATION
DIVISION OF TRANSPORTATION ENGINEERING
MONTGOMERY COUNTY, MARYLAND

AMHERST AVE CYCLE TRACK
 INTERSECTION DETAIL

SCALE: 1" = 10'
 SHEET 40 of 208

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DA-KY

10/9/2023
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 LICENSE NO: 25768 EXPIRATION DATE: 6 /23 /2025



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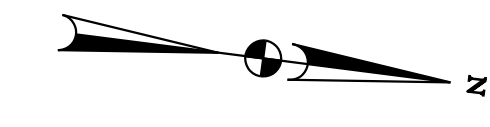


NO.	REVISION	BY	APP'D	DATE

DESIGNED BY: KWC	DATE: OCTOBER, 2023
DRAWN BY: KCY	DATE: OCTOBER, 2023
CHECKED BY: SJZ	DATE: OCTOBER, 2023
DRAWING NO.:	DATE:
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Chief, Design Section _____	Date _____
APPROVED	
Chief, Division of Transportation Engineering _____	Date _____

DEPARTMENT OF TRANSPORTATION
 DIVISION OF TRANSPORTATION ENGINEERING
 MONTGOMERY COUNTY, MARYLAND

AMHERST AVE CYCLE TRACK
 DRAINAGE AREA MAP KEY PLAN



GEORGIA AVE

WINDHAM LN

400

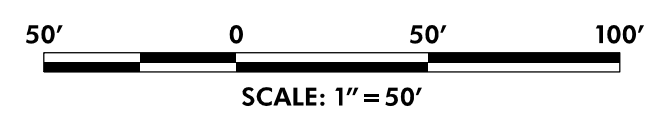
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E 1297763
N 503639

N 503093
E 1298342

N 503639
E 1298342

MATCH LINE - SEE SHEET DA-02



DA-01

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					DRAWN BY: KCY	DATE: OCTOBER, 2023
					CHECKED BY: SJZ	DATE: OCTOBER, 2023
					DRAWING NO.:	DATE:
RECOMMENDED FOR APPROVAL						
					Chief, Design Section	Date
APPROVED						
					Chief, Division of Transportation Engineering	Date

DEPARTMENT OF TRANSPORTATION
DIVISION OF TRANSPORTATION ENGINEERING
MONTGOMERY COUNTY, MARYLAND

AMHERST AVE CYCLE TRACK
EXISTING DRAINAGE AREA MAP

SCALE: 1"=50'

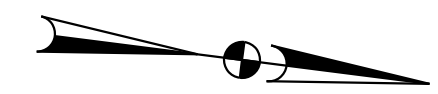
SHEET 42 of 208



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LICENSE NO: 25768 EXPIRATION DATE: 6 /23 /2025

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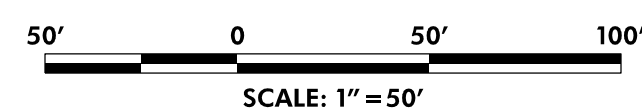


MATCH LINE - SEE SHEET DA-01

MATCH LINE - SEE SHEET DA-03



DA-02



NO.	REVISION	BY	APP'D	DATE	DESIGNED BY: KWC	DATE: OCTOBER, 2023
					DRAWN BY: KCY	DATE: OCTOBER, 2023
					CHECKED BY: SJZ	DATE: OCTOBER, 2023
					DRAWING NO.:	DATE:
					RECOMMENDED FOR APPROVAL	
					Chief, Design Section	Date
					APPROVED	
					Chief, Division of Transportation Engineering	Date

DEPARTMENT OF TRANSPORTATION
 DIVISION OF TRANSPORTATION ENGINEERING
 MONTGOMERY COUNTY, MARYLAND

AMHERST AVE CYCLE TRACK
 EXISTING DRAINAGE AREA MAP

SCALE: 1"=50'

SHEET 43 of 208

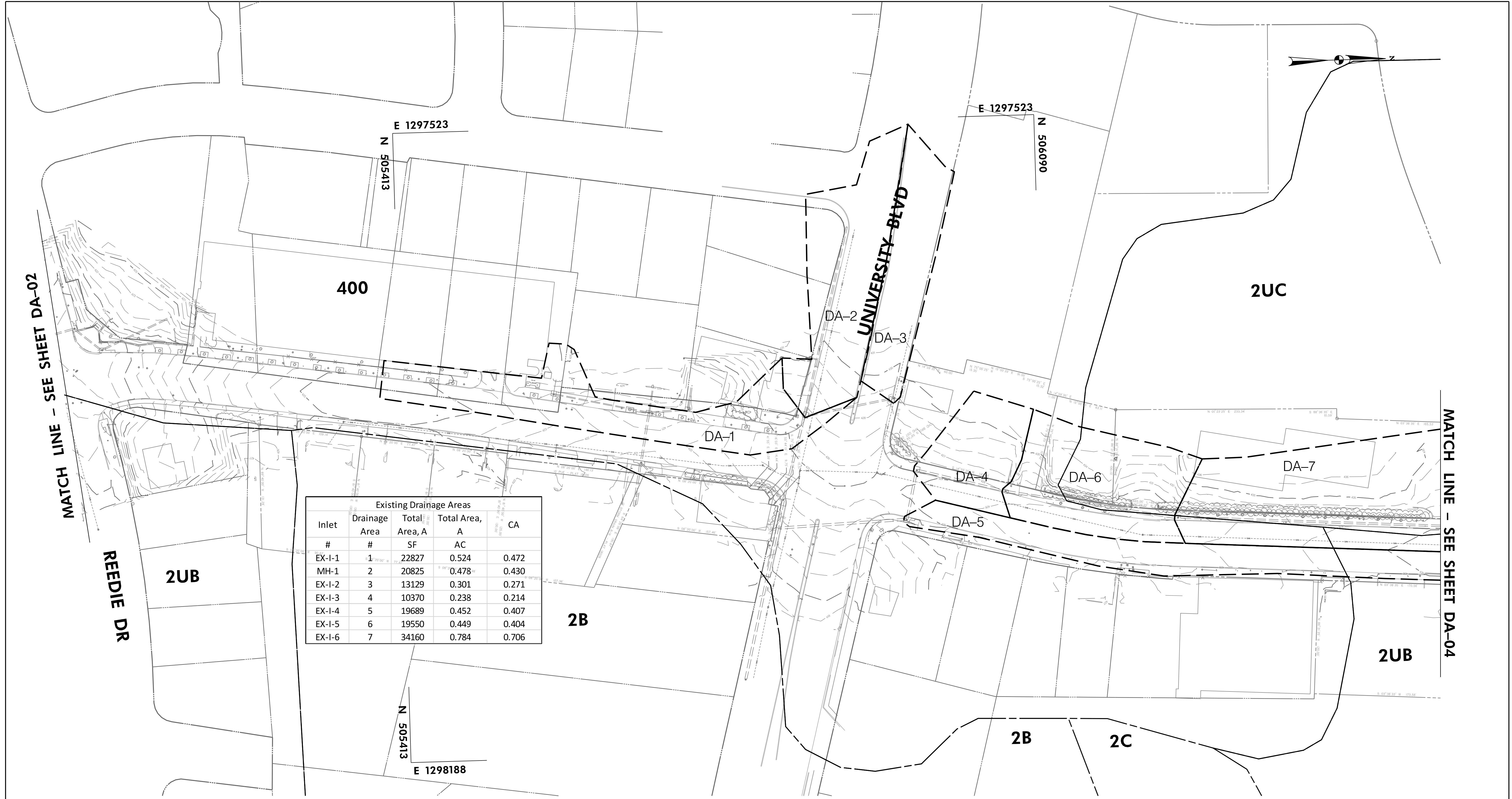


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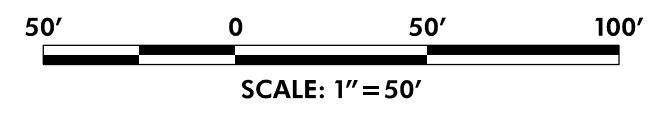
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 LICENSE NO: 25768 EXPIRATION DATE: 6 /23 /2025

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10/9/2023
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Existing Drainage Areas				
Inlet #	Drainage Area #	Total Area, A SF	Total Area, A AC	CA
EX-I-1	1	22827	0.524	0.472
MH-1	2	20825	0.478	0.430
EX-I-2	3	13129	0.301	0.271
EX-I-3	4	10370	0.238	0.214
EX-I-4	5	19689	0.452	0.407
EX-I-5	6	19550	0.449	0.404
EX-I-6	7	34160	0.784	0.706



NO.	REVISION	BY	APP'D	DATE

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Chief, Design Section _____	Date _____
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Chief, Division of Transportation Engineering _____	Date _____

DEPARTMENT OF TRANSPORTATION
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 MONTGOMERY COUNTY, MARYLAND

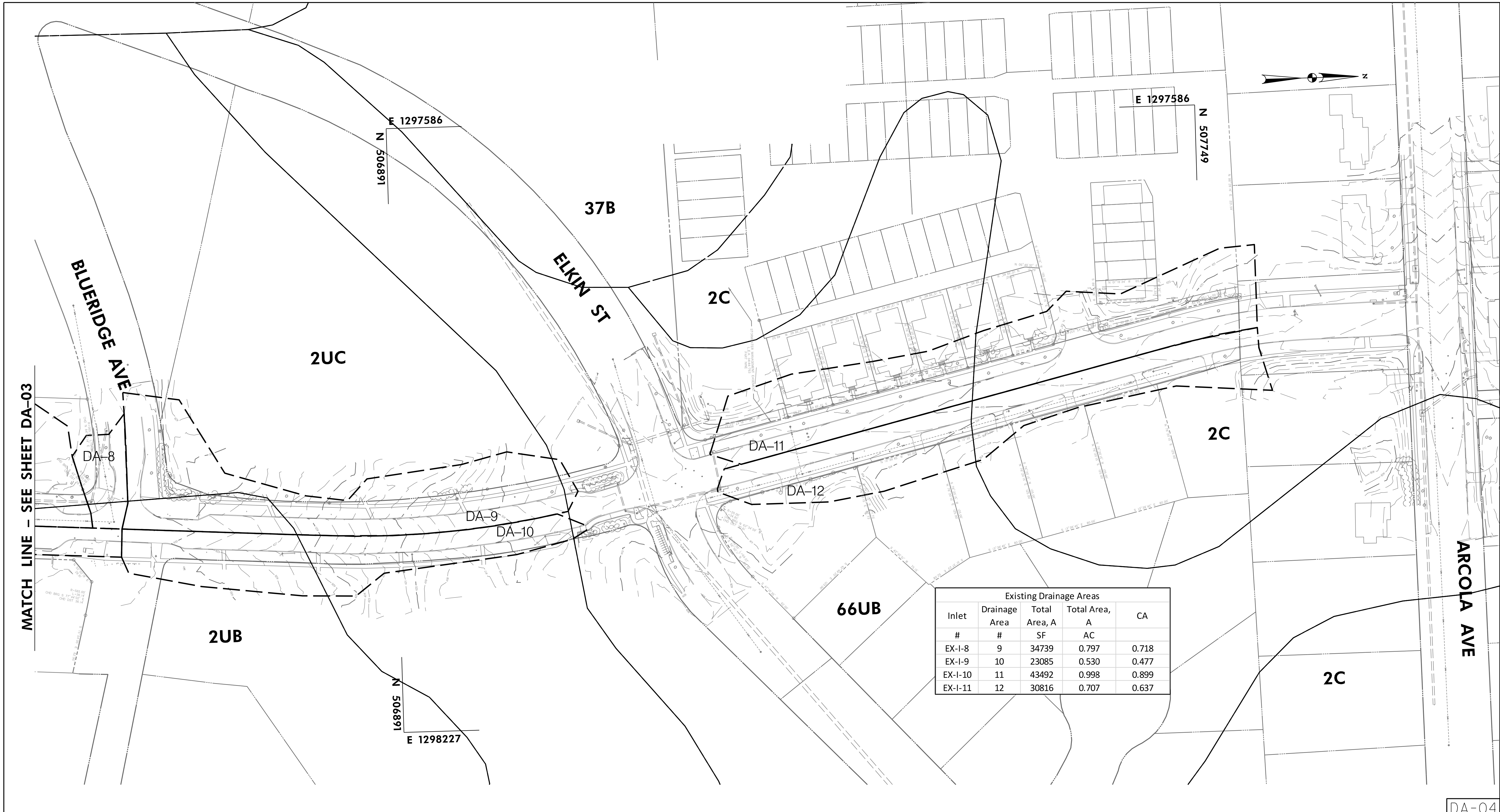
AMHERST AVE CYCLE TRACK
 EXISTING DRAINAGE AREA MAP



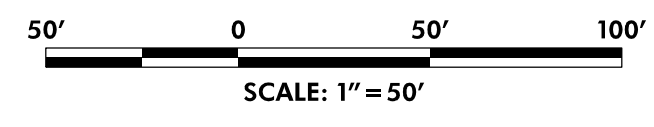
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Existing Drainage Areas				
Inlet #	Drainage Area #	Total Area, A SF	Total Area, A AC	CA
EX-I-8	9	34739	0.797	0.718
EX-I-9	10	23085	0.530	0.477
EX-I-10	11	43492	0.998	0.899
EX-I-11	12	30816	0.707	0.637



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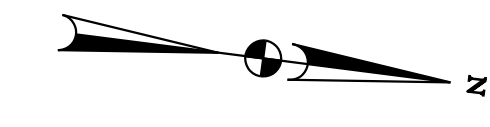
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 MONTGOMERY COUNTY, MARYLAND

AMHERST AVE CYCLE TRACK
 EXISTING DRAINAGE AREA MAP

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GEORGIA AVE

WINDHAM LN

400

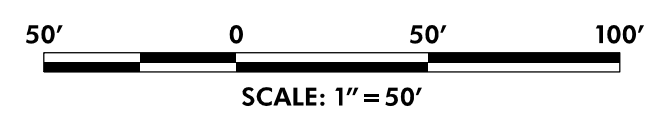
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E 1297763
N 503639

N 503093
E 1298342

N 503639
E 1298342

MATCH LINE - SEE SHEET DA-06



DA-05

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Chief, Division of Transportation Engineering _____	Date _____

DEPARTMENT OF TRANSPORTATION
DIVISION OF TRANSPORTATION ENGINEERING
MONTGOMERY COUNTY, MARYLAND

AMHERST AVE CYCLE TRACK
PROPOSED DRAINAGE AREA MAP

SCALE: 1"=50'

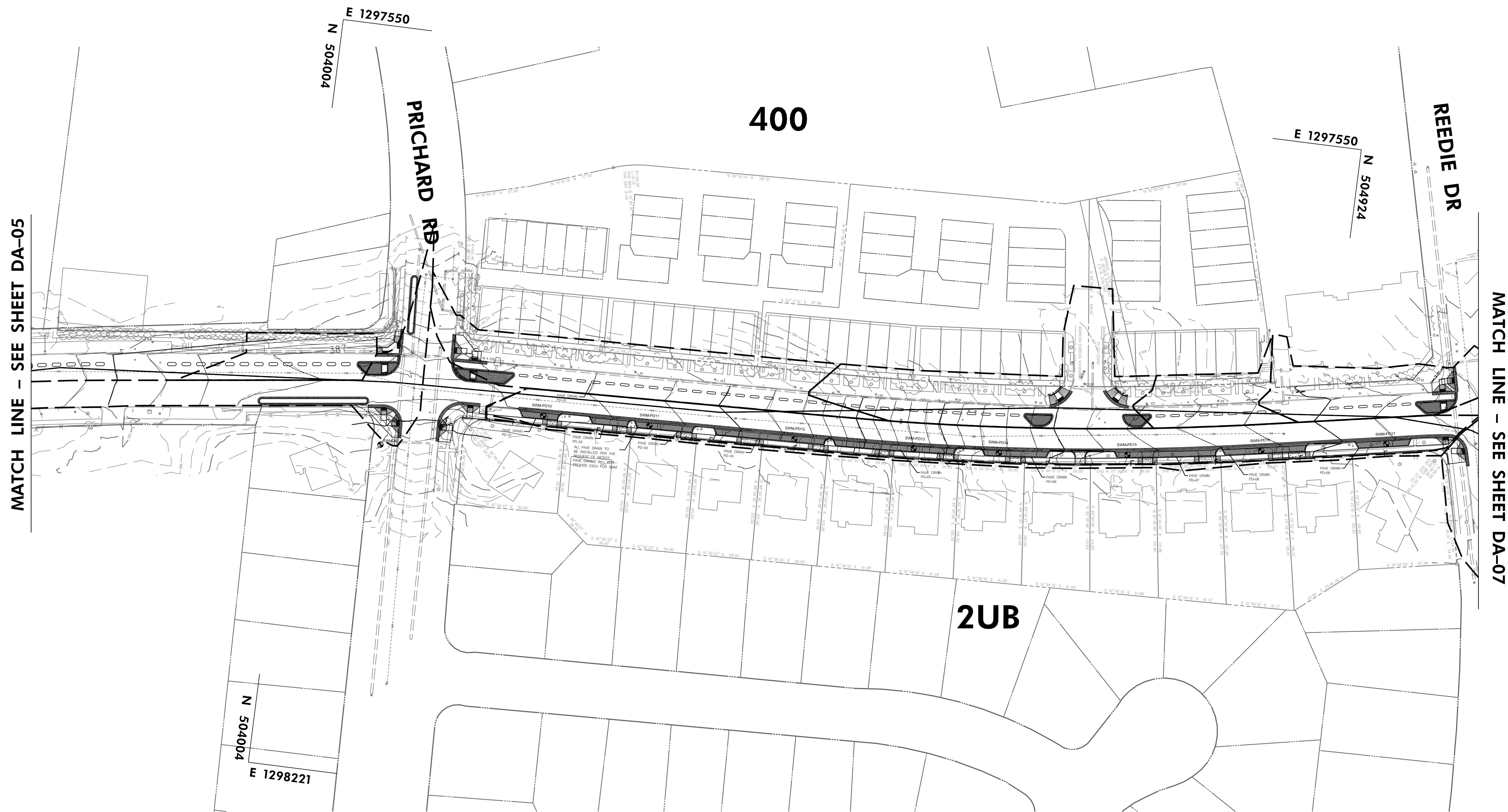
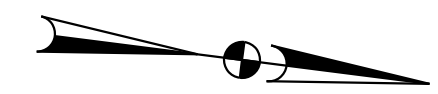
SHEET 46 of 208



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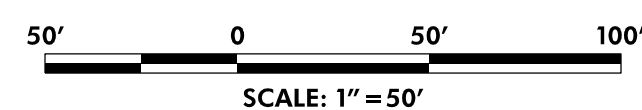


MATCH LINE - SEE SHEET DA-05

MATCH LINE - SEE SHEET DA-07

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DA-06



NO.	REVISION	BY	APP'D	DATE

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APPROVED	
Chief, Division of Transportation Engineering _____	Date _____

DEPARTMENT OF TRANSPORTATION
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MONTGOMERY COUNTY, MARYLAND

AMHERST AVE CYCLE TRACK
PROPOSED DRAINAGE AREA MAP

SCALE: 1"=50'

SHEET 47 of 208

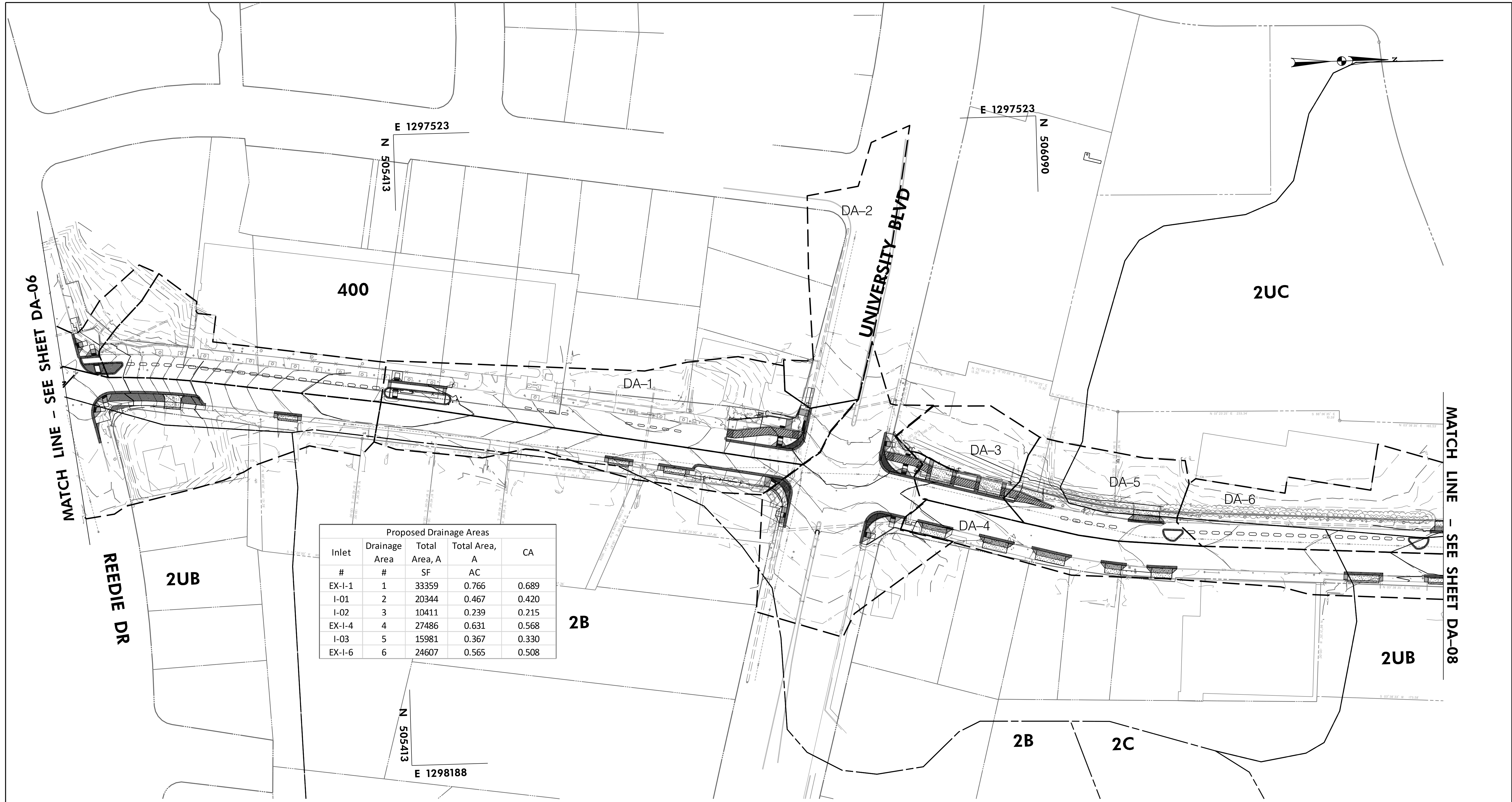
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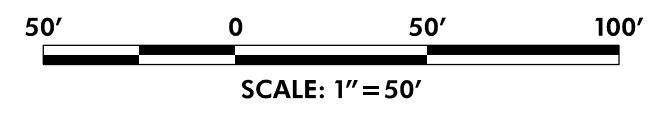
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Proposed Drainage Areas				
Inlet #	Drainage Area #	Total Area, A SF	Total Area, A AC	CA
EX-I-1	1	33359	0.766	0.689
I-01	2	20344	0.467	0.420
I-02	3	10411	0.239	0.215
EX-I-4	4	27486	0.631	0.568
I-03	5	15981	0.367	0.330
EX-I-6	6	24607	0.565	0.508



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DEPARTMENT OF TRANSPORTATION
 DIVISION OF TRANSPORTATION ENGINEERING
 MONTGOMERY COUNTY, MARYLAND

AMHERST AVE CYCLE TRACK
 PROPOSED DRAINAGE AREA MAP

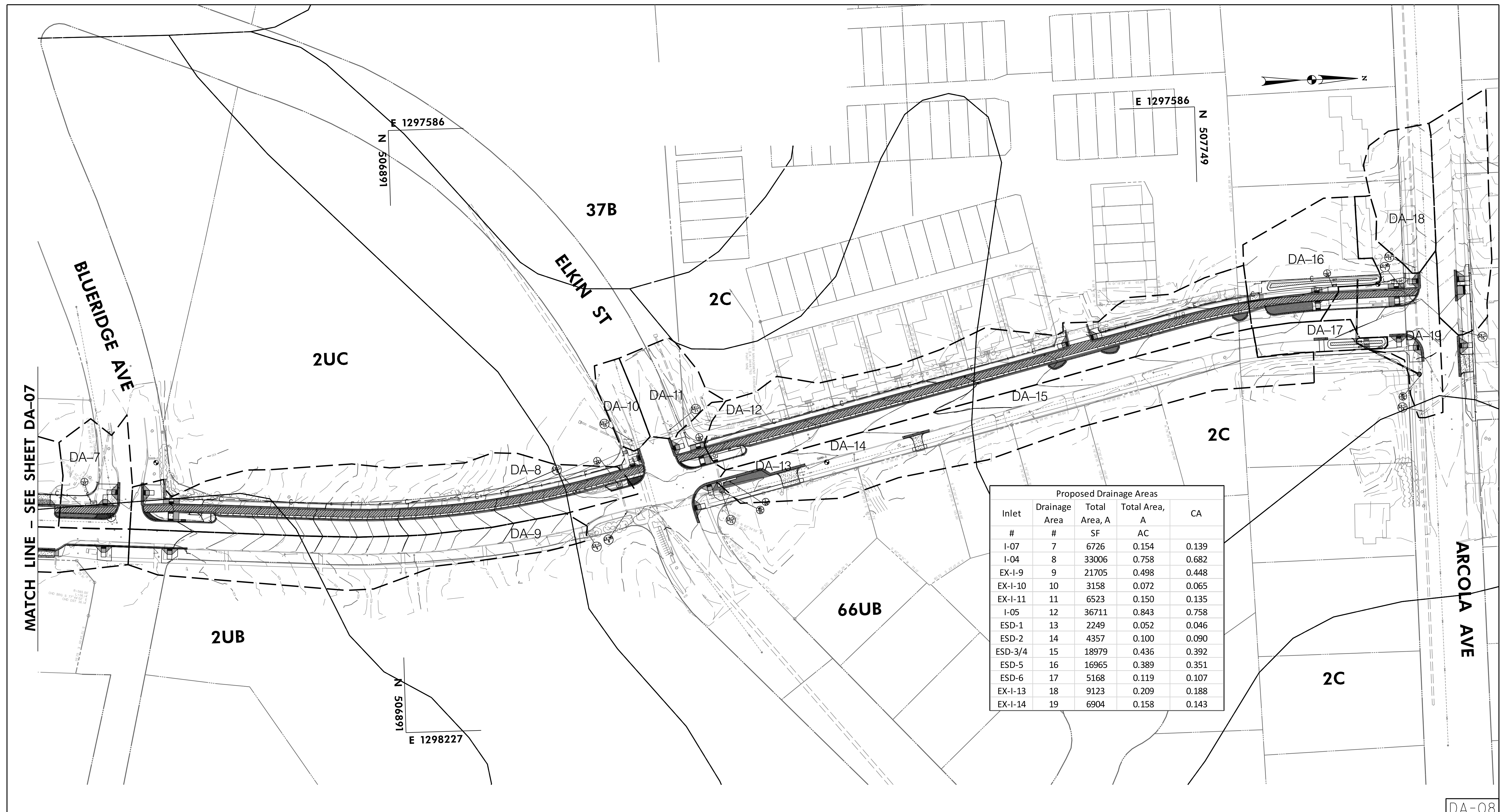


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 LICENSE NO.: 25768 EXPIRATION DATE: 6 /23 /2025

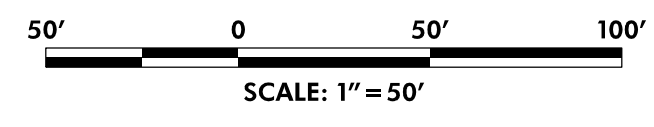
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DA-07

10/9/2023
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Proposed Drainage Areas				
Inlet #	Drainage Area #	Total Area, A SF	Total Area, A AC	CA
I-07	7	6726	0.154	0.139
I-04	8	33006	0.758	0.682
EX-I-9	9	21705	0.498	0.448
EX-I-10	10	3158	0.072	0.065
EX-I-11	11	6523	0.150	0.135
I-05	12	36711	0.843	0.758
ESD-1	13	2249	0.052	0.046
ESD-2	14	4357	0.100	0.090
ESD-3/4	15	18979	0.436	0.392
ESD-5	16	16965	0.389	0.351
ESD-6	17	5168	0.119	0.107
EX-I-13	18	9123	0.209	0.188
EX-I-14	19	6904	0.158	0.143



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Chief, Design Section	Date
APPROVED	
Chief, Division of Transportation Engineering	Date

DEPARTMENT OF TRANSPORTATION
 DIVISION OF TRANSPORTATION ENGINEERING
 MONTGOMERY COUNTY, MARYLAND

AMHERST AVE CYCLE TRACK
 PROPOSED DRAINAGE AREA MAP

PROFESSIONAL CERTIFICATION:
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LEGEND	
	EX. RIGHT OF WAY LINE
	EX. EDGE OF PAVEMENT
	EX. CONTOURS
	EX. WATER
	EX. STORM DRAIN
	EX. GAS
	EX. SANITARY SEWER
	EX. TELECOM
	EX. STORMWATER BMP
	PROP. EDGE OF PAVEMENT
	PROP. CONTOURS
	PROP. STORM DRAIN
	PROP. SWM/BMP
	LIMIT OF DISTURBANCE
	PROP. PAVEDRAIN

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DEPARTMENT OF TRANSPORTATION
 DIVISION OF TRANSPORTATION ENGINEERING
 MONTGOMERY COUNTY, MARYLAND

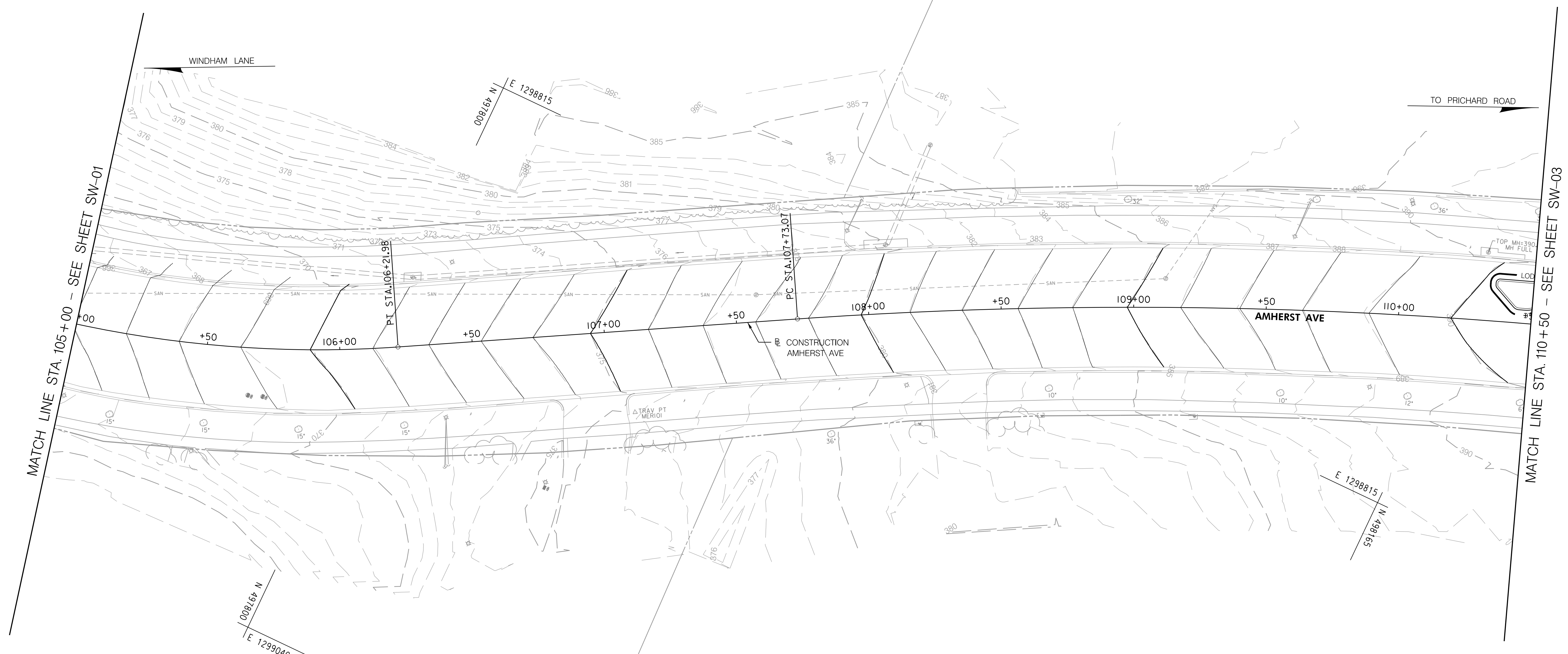
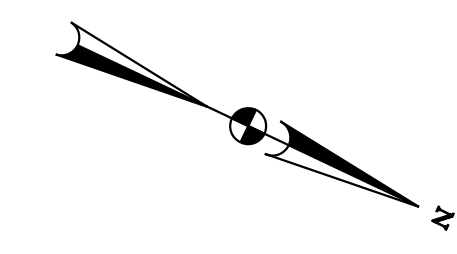
STORMWATER MANAGEMENT
 CONCEPT PLAN
 AMHERST AVENUE
 CYCLE TRACK

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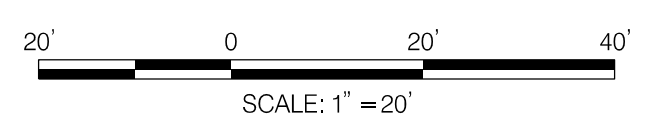
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SW-01



MATCH LINE STA. 105+00 - SEE SHEET SW-01

MATCH LINE STA. 110+00 - SEE SHEET SW-03



LEGEND	
	EX. RIGHT OF WAY LINE
	EX. EDGE OF PAVEMENT
	EX. CONTOURS
	EX. WATER
	EX. STORM DRAIN
	EX. GAS
	EX. SANITARY SEWER
	EX. TELECOM
	EX. STORMWATER BMP
	PROP. EDGE OF PAVEMENT
	PROP. CONTOURS
	PROP. STORM DRAIN
	PROP. SWM/BMP
	LIMIT OF DISTURBANCE
	PROP. PAVEDRAIN

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SW-02

DEPARTMENT OF TRANSPORTATION
 DIVISION OF TRANSPORTATION ENGINEERING
 MONTGOMERY COUNTY, MARYLAND

STORMWATER MANAGEMENT
 CONCEPT PLAN
 AMHERST AVENUE
 CYCLE TRACK

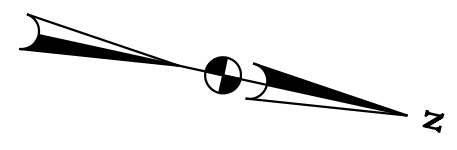
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SHEET 51 of 208

10/9/2023 U:\2026213141\700 CADD\700 Sheet\pSW-P002_AmherstAve.dgn



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N 095866

N 498360
E 1298795

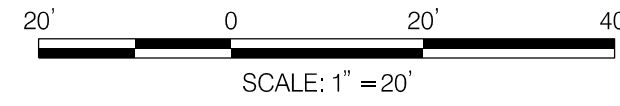
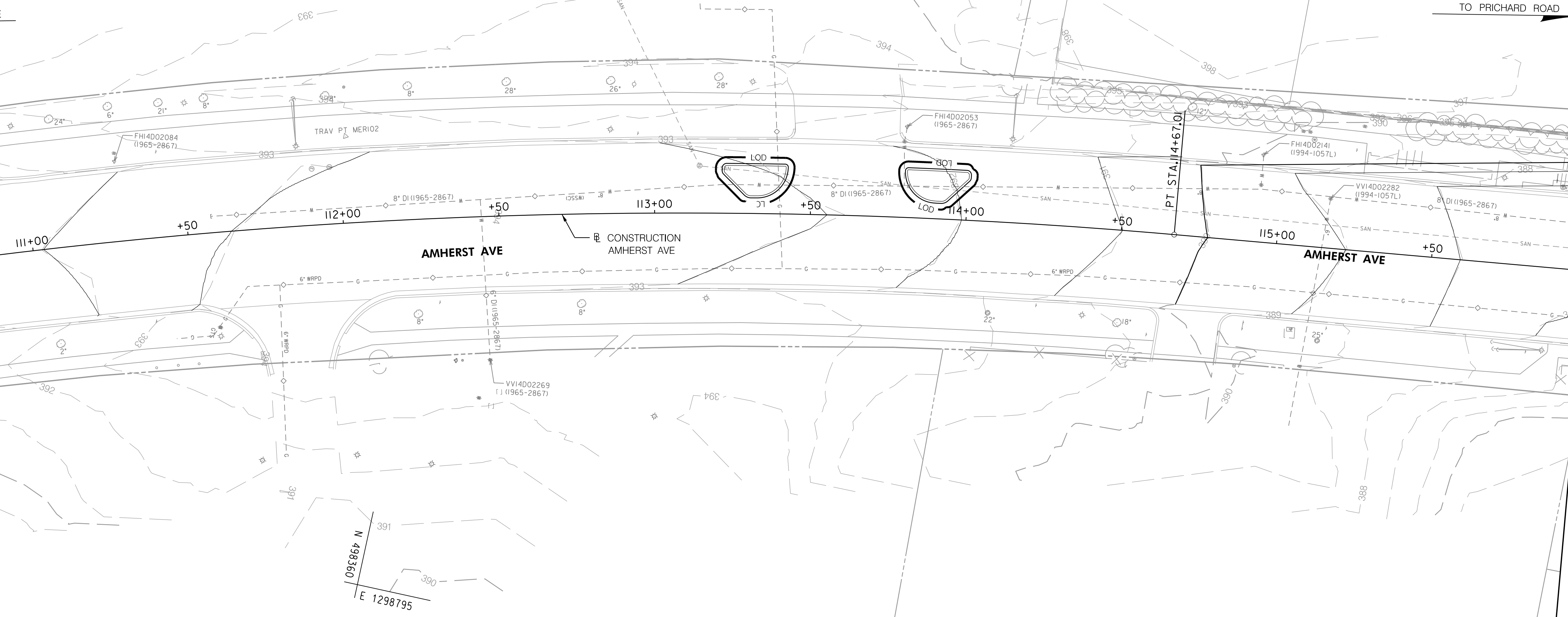
N 498580
E 1298795

TO WINDHAM LANE

TO PRICHARD ROAD

MATCH LINE STA. 110+50 - SEE SHEET SW-02

MATCH LINE STA. 116+00 - SEE SHEET SW-04



LEGEND	
	EX. RIGHT OF WAY LINE
	EX. EDGE OF PAVEMENT
	EX. CONTOURS
	EX. WATER
	EX. STORM DRAIN
	EX. GAS
	EX. SANITARY SEWER
	EX. TELECOM
	EX. STORMWATER BMP
	PROP. EDGE OF PAVEMENT
	PROP. CONTOURS
	PROP. STORM DRAIN
	PROP. SWM/BMP
	LOD - LIMIT OF DISTURBANCE
	PROP. PAVEDRAIN

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SW-03

DEPARTMENT OF TRANSPORTATION
DIVISION OF TRANSPORTATION ENGINEERING
MONTGOMERY COUNTY, MARYLAND

STORMWATER MANAGEMENT
CONCEPT PLAN
AMHERST AVENUE
CYCLE TRACK

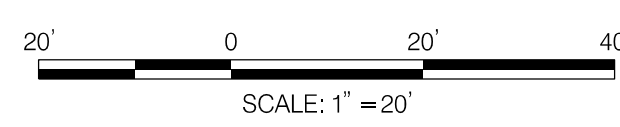
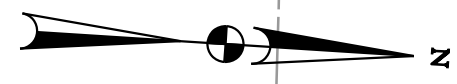
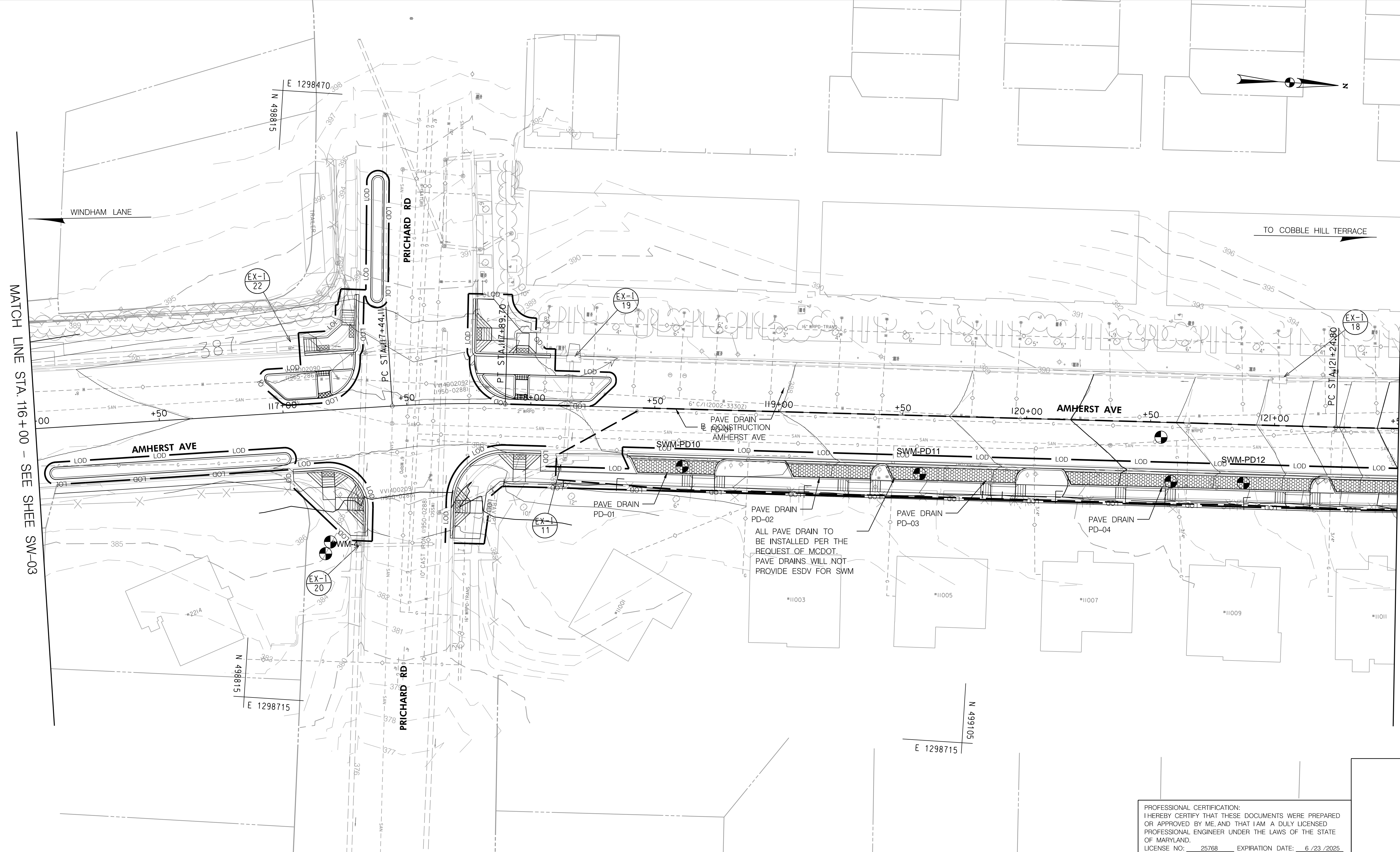
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SHEET 52 of 208

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LEGEND

	EX. RIGHT OF WAY LINE
	EX. EDGE OF PAVEMENT
	EX. CONTOURS
	EX. WATER
	EX. STORM DRAIN
	EX. GAS
	EX. SANITARY SEWER
	EX. TELECOM
	EX. STORMWATER BMP
	PROP. EDGE OF PAVEMENT
	PROP. CONTOURS
	PROP. STORM DRAIN
	PROP. SWM/BMP
	LIMIT OF DISTURBANCE
	PROP. PAVEDRAIN

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Chief, Division of Transportation Engineering	Date

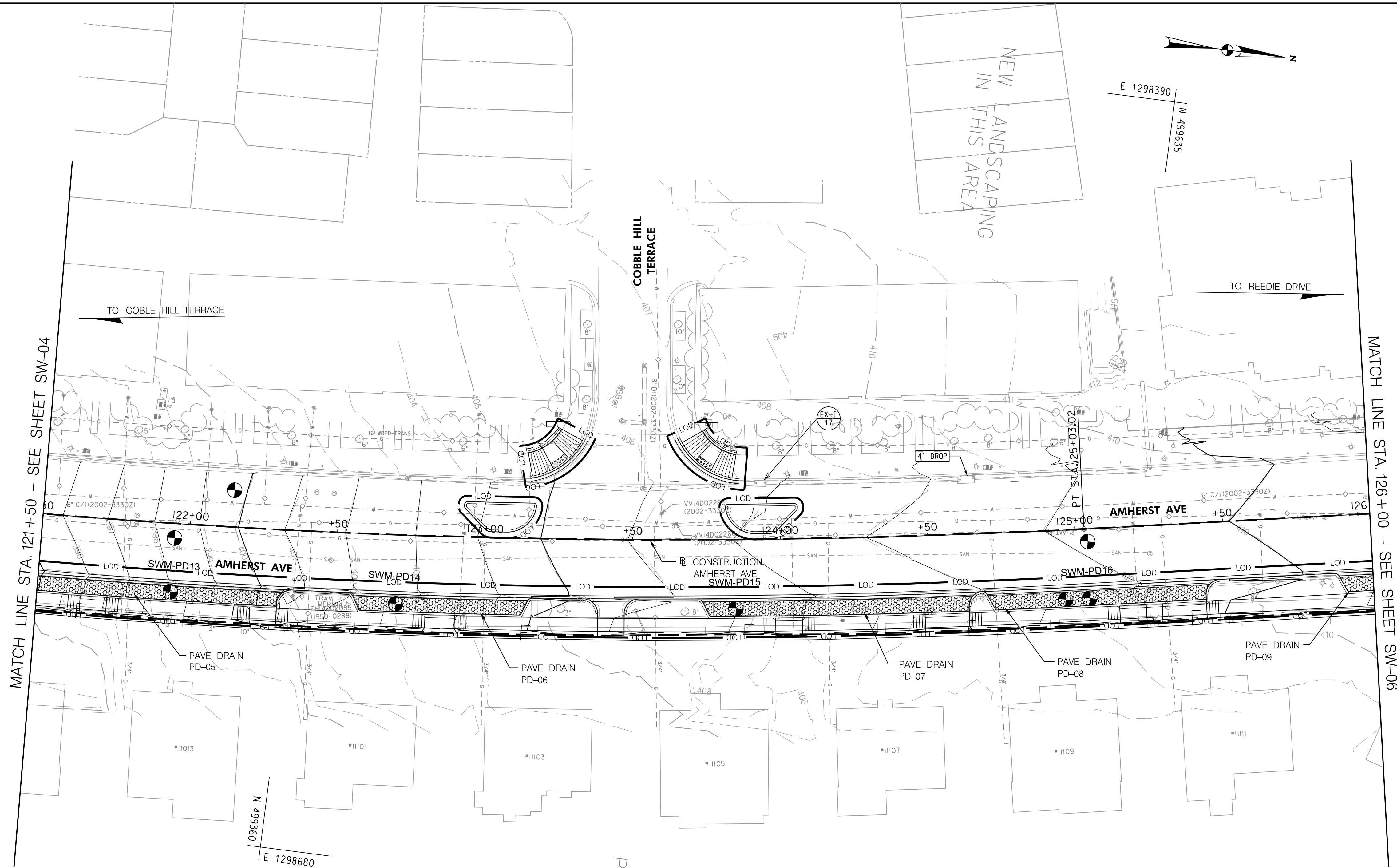
PROFESSIONAL CERTIFICATION:
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SW-04



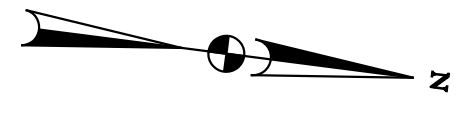
DEPARTMENT OF TRANSPORTATION
DIVISION OF TRANSPORTATION ENGINEERING
MONTGOMERY COUNTY, MARYLAND

STORMWATER MANAGEMENT
 CONCEPT PLAN
 AMHERST AVENUE
 CYCLE TRACK



MATCH LINE STA. 121+50 - SEE SHEET SW-04

MATCH LINE STA. 126+00 - SEE SHEET SW-06

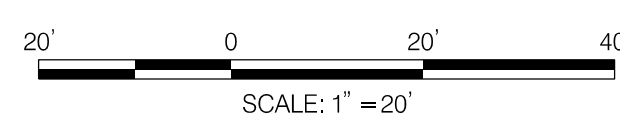


E 1298390
N 498635

N 498360
E 1298680

N 498635
E 1298680

PRIVATE PROPERTY
NO ACCESS



LEGEND	
	EX. RIGHT OF WAY LINE
	EX. EDGE OF PAVEMENT
	EX. CONTOURS
	EX. WATER
	EX. STORM DRAIN
	EX. GAS
	EX. SANITARY SEWER
	EX. TELECOM
	EX. STORMWATER BMP
	PROP. EDGE OF PAVEMENT
	PROP. CONTOURS
	PROP. STORM DRAIN
	PROP. SWM/BMP
	LOD - LIMIT OF DISTURBANCE
	PROP. PAVEDRAIN

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APPROVED	
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SW-05

DEPARTMENT OF TRANSPORTATION
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MONTGOMERY COUNTY, MARYLAND

STORMWATER MANAGEMENT
CONCEPT PLAN
AMHERST AVENUE
CYCLE TRACK

SCALE: 1"=20'

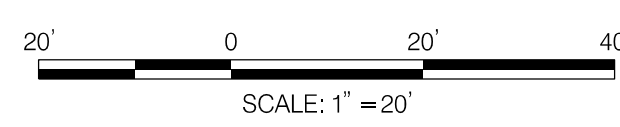
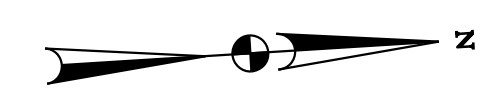
SHEET 54 of 208

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LEGEND

	EX. RIGHT OF WAY LINE
	EX. EDGE OF PAVEMENT
	EX. CONTOURS
	EX. WATER
	EX. STORM DRAIN
	EX. GAS
	EX. SANITARY SEWER
	EX. TELECOM
	EX. STORMWATER BMP
	PROP. EDGE OF PAVEMENT
	PROP. CONTOURS
	PROP. STORM DRAIN
	PROP. SWM/BMP
	LIMIT OF DISTURBANCE
	PROP. PAVEDRAIN

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Chief, Design Section _____	Date _____
APPROVED	
Chief, Division of Transportation Engineering _____	Date _____

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 LICENSE NO.: 25768 EXPIRATION DATE: 6/23/2025

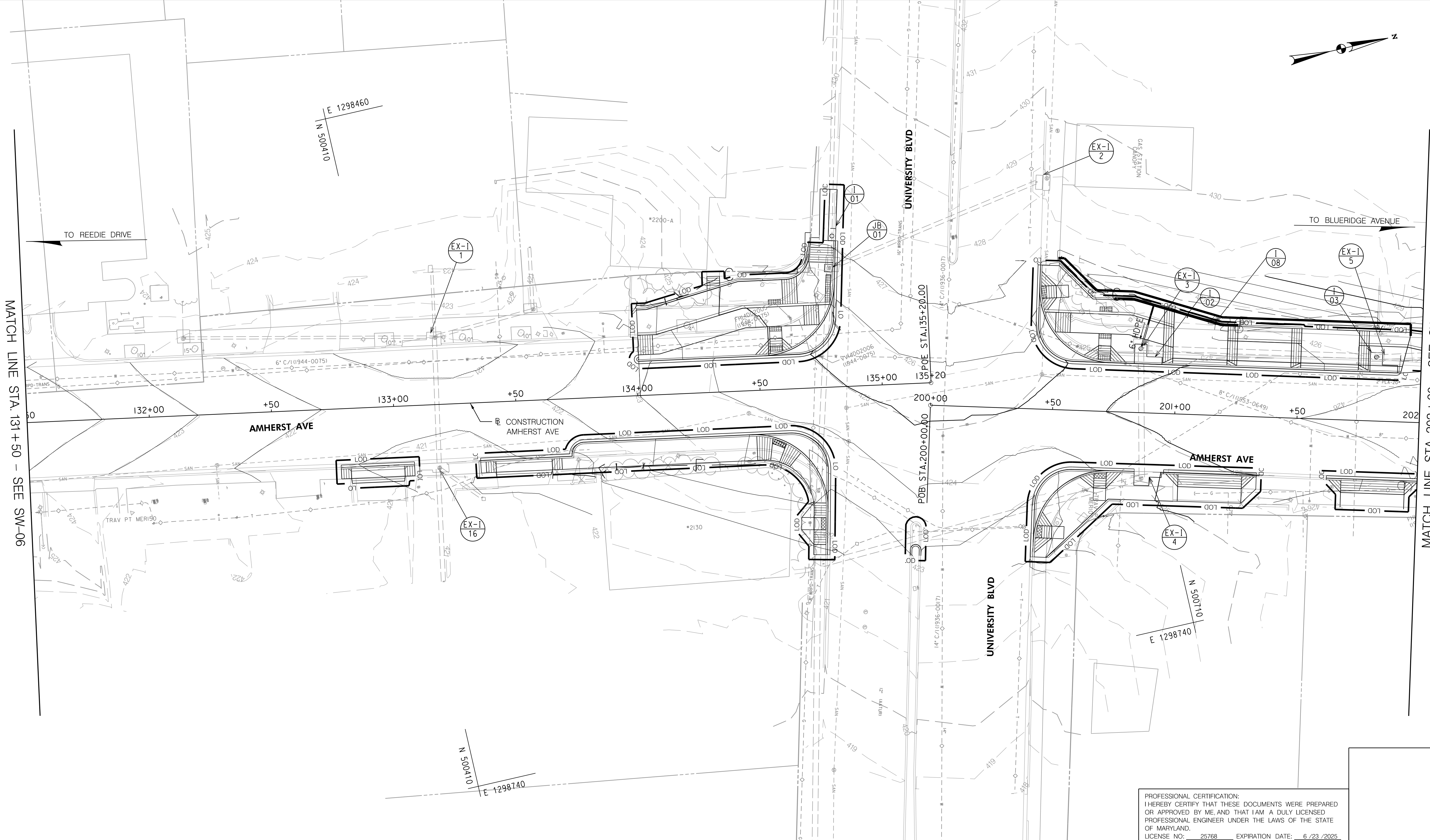
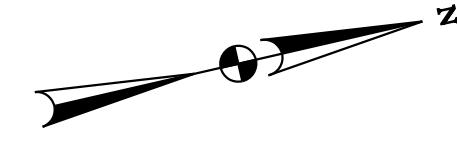
SW-06



DEPARTMENT OF TRANSPORTATION
 DIVISION OF TRANSPORTATION ENGINEERING
 MONTGOMERY COUNTY, MARYLAND

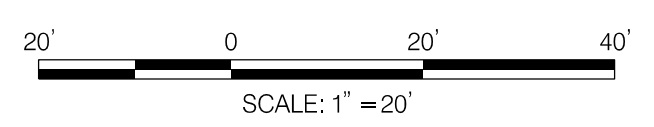
STORMWATER MANAGEMENT
 CONCEPT PLAN
 AMHERST AVENUE
 CYCLE TRACK

SCALE: 1"=20' SHEET 55 of 208



MATCH LINE STA. 131+50 - SEE SW-06

MATCH LINE STA. 202+00 - SEE SW-08



LEGEND	
	EX. RIGHT OF WAY LINE
	EX. EDGE OF PAVEMENT
	EX. CONTOURS
	EX. WATER
	EX. STORM DRAIN
	EX. GAS
	EX. SANITARY SEWER
	EX. TELECOM
	EX. STORMWATER BMP
	PROP. EDGE OF PAVEMENT
	PROP. CONTOURS
	PROP. STORM DRAIN
	PROP. SWM/BMP
	LIMIT OF DISTURBANCE
	PROP. PAVEDRAIN

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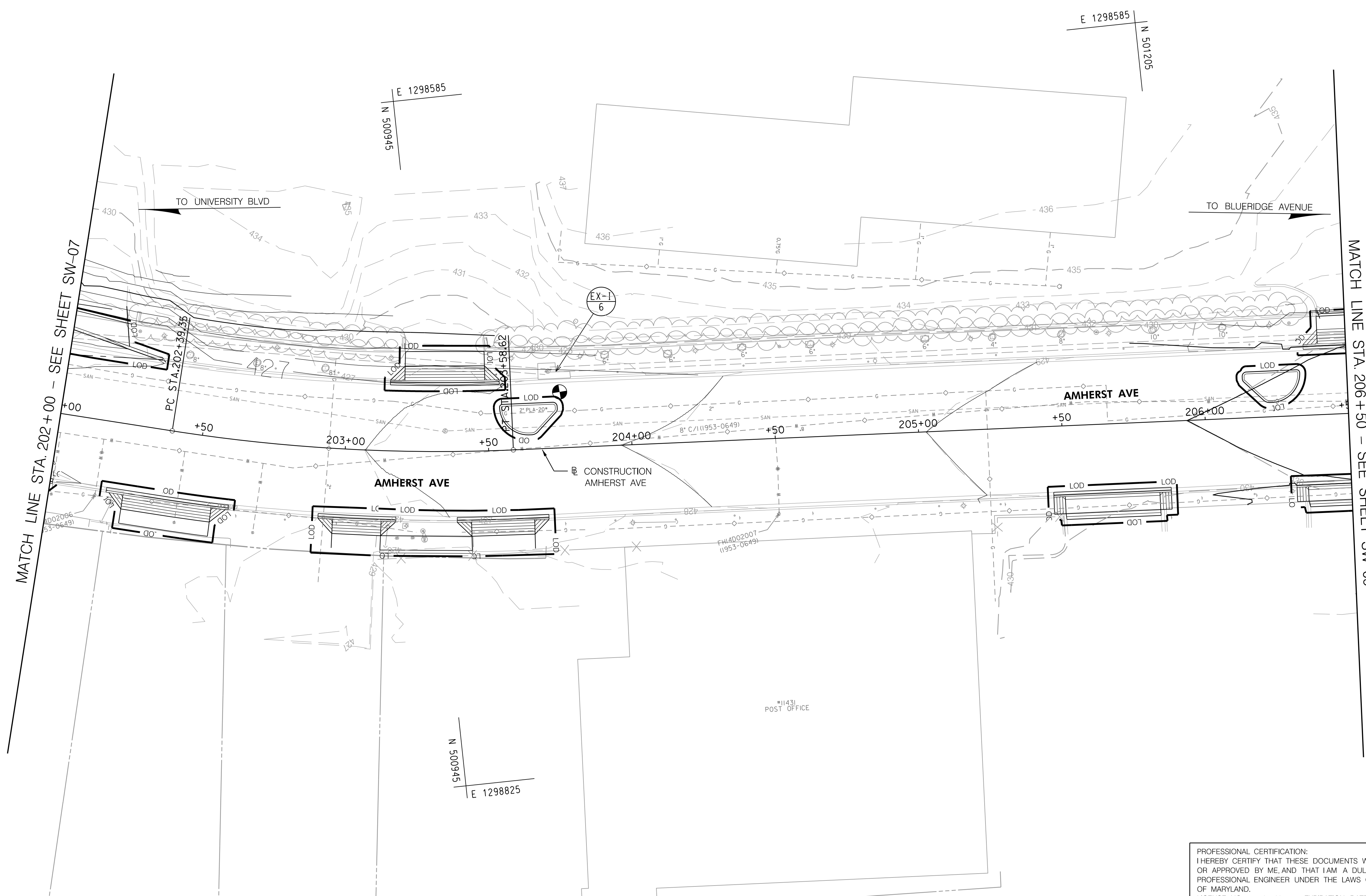
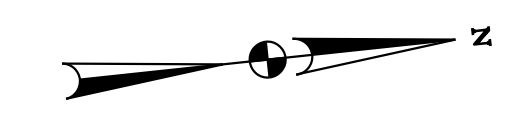
DEPARTMENT OF TRANSPORTATION
DIVISION OF TRANSPORTATION ENGINEERING
MONTGOMERY COUNTY, MARYLAND

STORMWATER MANAGEMENT
 CONCEPT PLAN
 AMHERST AVENUE
 CYCLE TRACK

SW-07

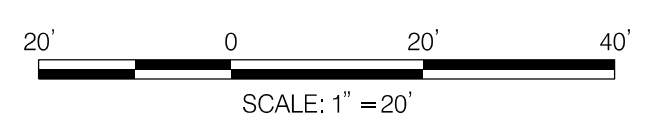
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MATCH LINE STA. 202+00 - SEE SHEET SW-07

MATCH LINE STA. 206+50 - SEE SHEET SW-09



LEGEND	
	EX. RIGHT OF WAY LINE
	EX. EDGE OF PAVEMENT
	EX. CONTOURS
	EX. WATER
	EX. STORM DRAIN
	EX. GAS
	EX. SANITARY SEWER
	EX. TELECOM
	EX. STORMWATER BMP
	PROP. EDGE OF PAVEMENT
	PROP. CONTOURS
	PROP. STORM DRAIN
	PROP. SWM/BMP
	LIMIT OF DISTURBANCE
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SW-08

DEPARTMENT OF TRANSPORTATION
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 MONTGOMERY COUNTY, MARYLAND

STORMWATER MANAGEMENT
 CONCEPT PLAN
 AMHERST AVENUE
 CYCLE TRACK

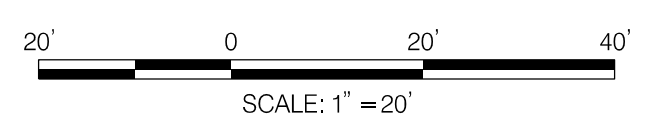
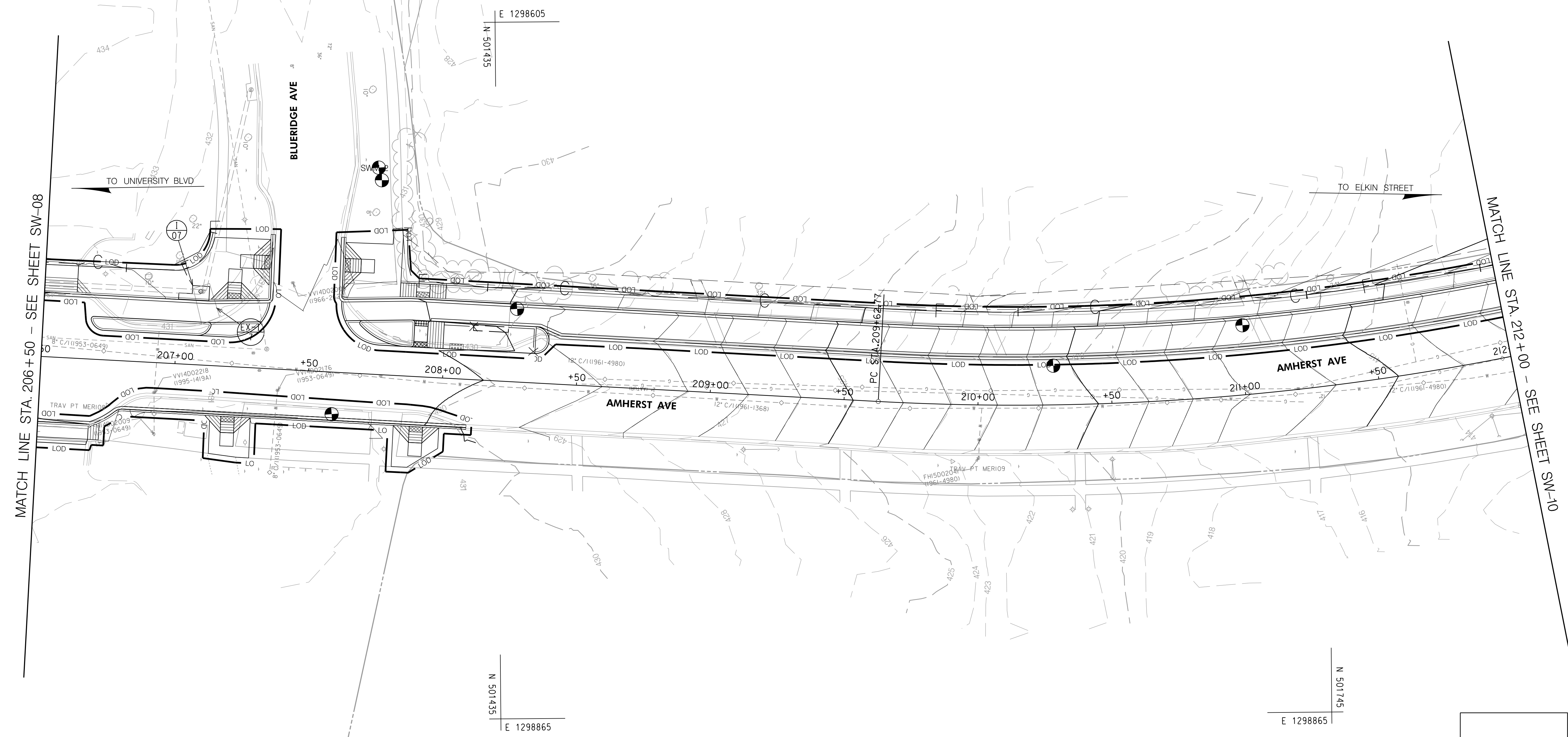
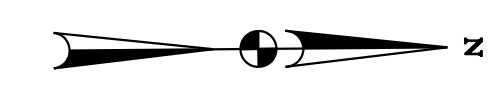
SCALE: 1"=20'

SHEET 57 of 208

10/9/2023 U:\2026213141\700 CADD\700 Sheet\pSW-P008_AmherstAve.dgn



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LEGEND	
	EX. RIGHT OF WAY LINE
	EX. EDGE OF PAVEMENT
	EX. CONTOURS
	EX. WATER
	EX. STORM DRAIN
	EX. GAS
	EX. SANITARY SEWER
	EX. TELECOM
	EX. STORMWATER BMP
	PROP. EDGE OF PAVEMENT
	PROP. CONTOURS
	PROP. STORM DRAIN
	PROP. SWM/BMP
	LIMIT OF DISTURBANCE
	PROP. PAVEDRAIN

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SW-09

DEPARTMENT OF TRANSPORTATION
 DIVISION OF TRANSPORTATION ENGINEERING
 MONTGOMERY COUNTY, MARYLAND

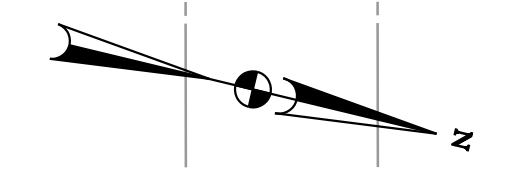
STORMWATER MANAGEMENT
 CONCEPT PLAN
 AMHERST AVENUE
 CYCLE TRACK

SCALE: 1"=20'

SHEET 58 of 208

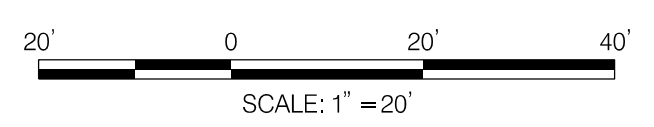
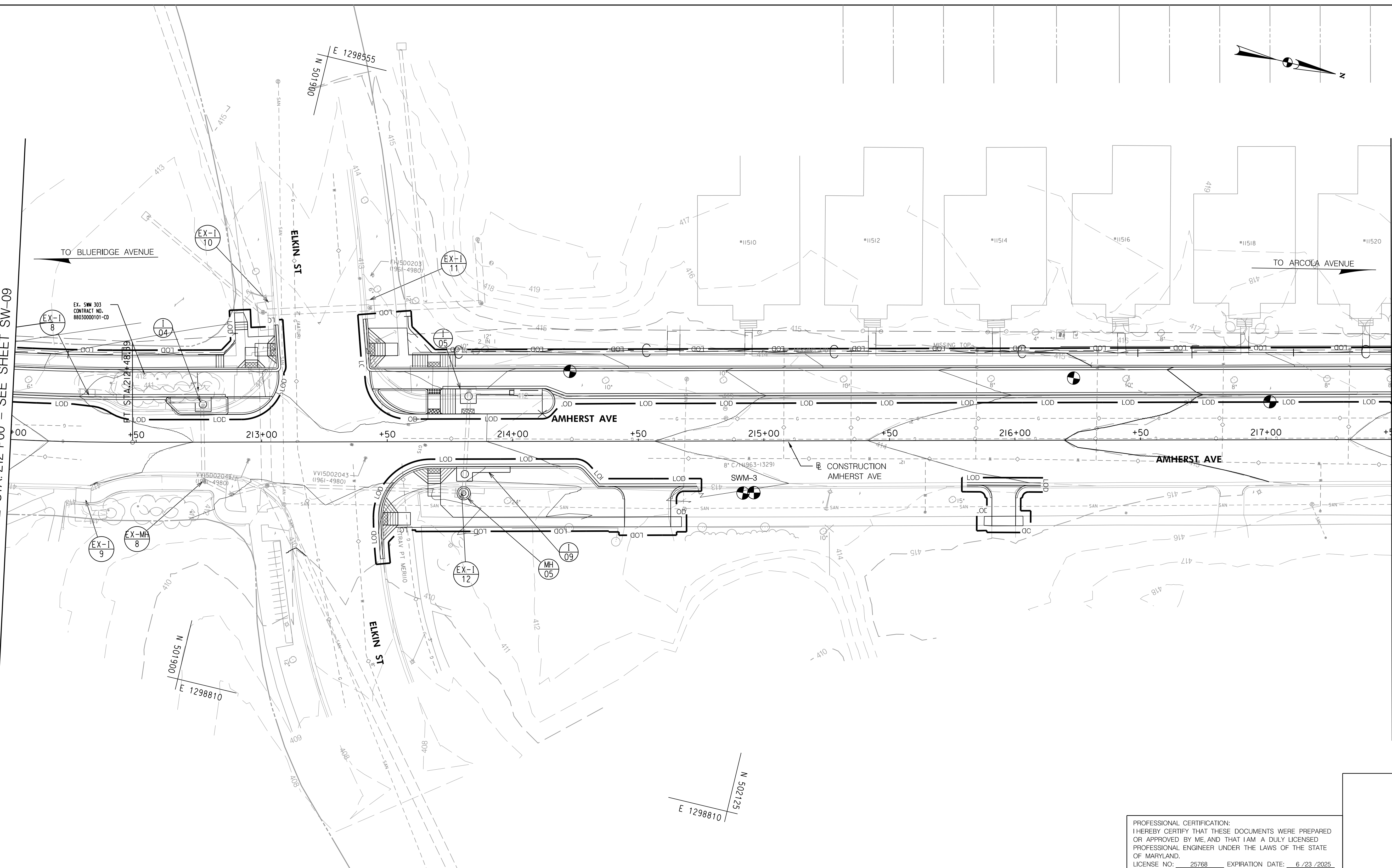
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MATCH LINE STA. 212+00 - SEE SHEET SW-09

MATCH LINE STA. 217+50 - SEE SHEET SW-11



LEGEND	
	EX. RIGHT OF WAY LINE
	EX. EDGE OF PAVEMENT
	EX. CONTOURS
	EX. WATER
	EX. STORM DRAIN
	EX. GAS
	EX. SANITARY SEWER
	EX. TELECOM
	EX. STORMWATER BMP
	PROP. EDGE OF PAVEMENT
	PROP. CONTOURS
	PROP. STORM DRAIN
	PROP. SWM/BMP
	LIMIT OF DISTURBANCE
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SW-10

DEPARTMENT OF TRANSPORTATION
 DIVISION OF TRANSPORTATION ENGINEERING
 MONTGOMERY COUNTY, MARYLAND

AMHERST AVE CYCLE TRACK
 STORMWATER MANAGEMENT PLAN

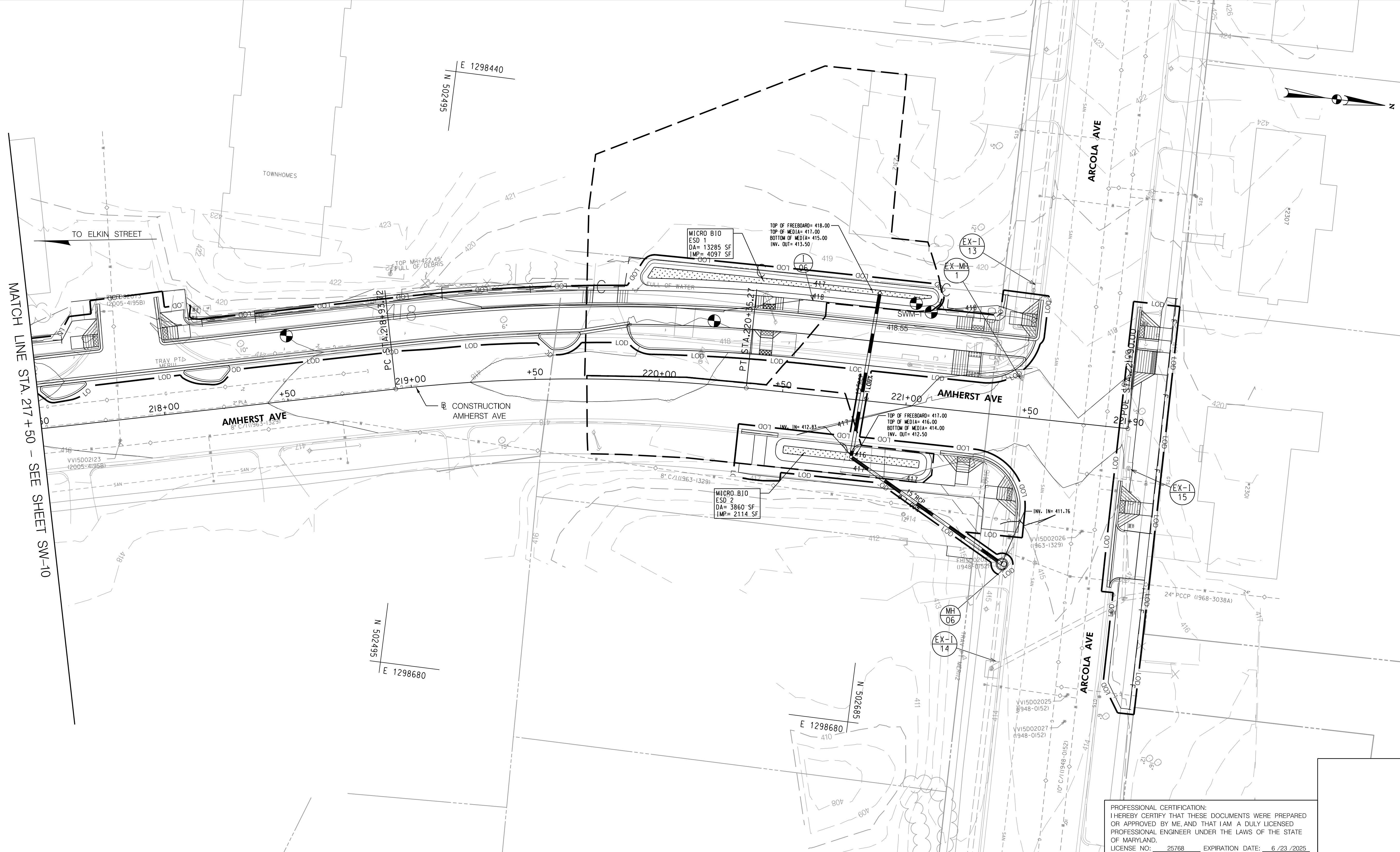
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SHEET 59 of 208

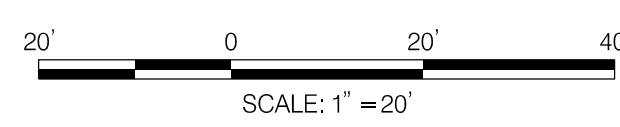
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MATCH LINE STA. 217 + 50 - SEE SHEET SW-10



LEGEND	
	EX. RIGHT OF WAY LINE
	EX. EDGE OF PAVEMENT
	EX. CONTOURS
	EX. WATER
	EX. STORM DRAIN
	EX. GAS
	EX. SANITARY SEWER
	EX. TELECOM
	EX. STORMWATER BMP
	PROP. EDGE OF PAVEMENT
	PROP. CONTOURS
	PROP. STORM DRAIN
	PROP. SWM/BMP
	LIMIT OF DISTURBANCE
	PROP. PAVEDRAIN

NO.	REVISION	BY	APP'D	DATE

DESIGNED BY: KWC	DATE: OCTOBER, 2023
DRAWN BY: KCY	DATE: OCTOBER, 2023
CHECKED BY: SJZ	DATE: OCTOBER, 2023
DRAWING NO.:	DATE:
RECOMMENDED FOR APPROVAL	
Chief, Design Section	Date
APPROVED	
Chief, Division of Transportation Engineering	Date

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 LICENSE NO: 25768 EXPIRATION DATE: 6/23/2025

SW-11

DEPARTMENT OF TRANSPORTATION
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 MONTGOMERY COUNTY, MARYLAND

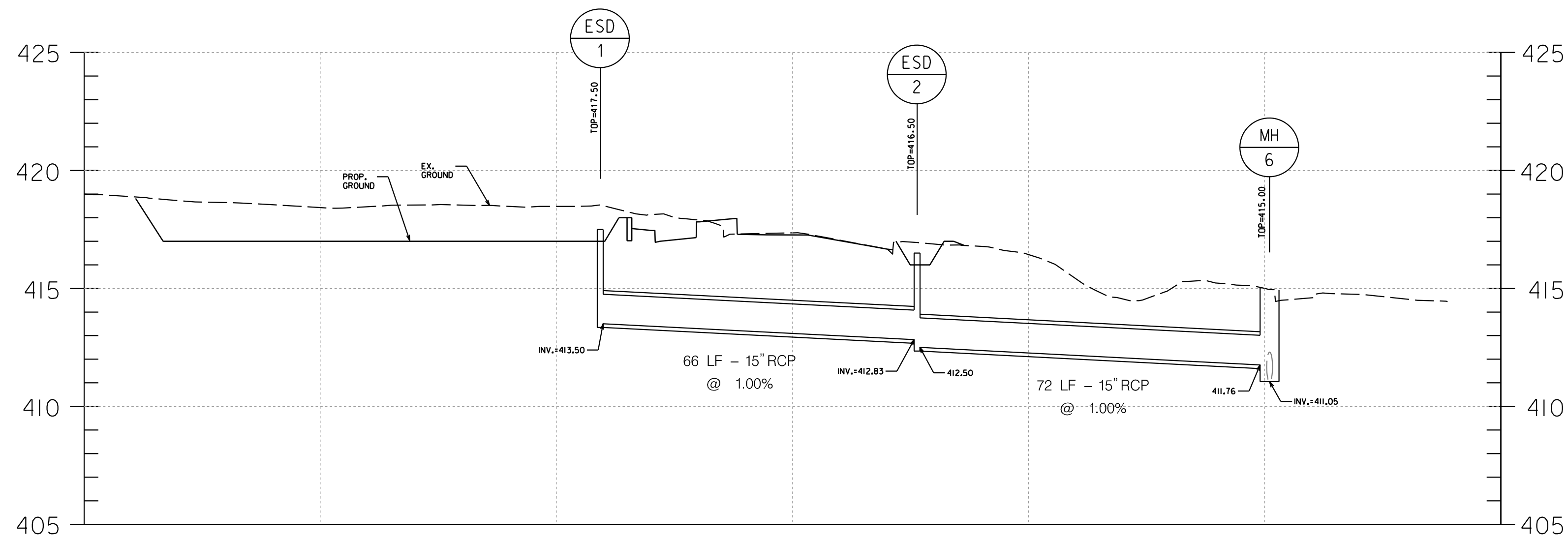
AMHERST AVE CYCLE TRACK
 STORMWATER MANAGEMENT PLAN

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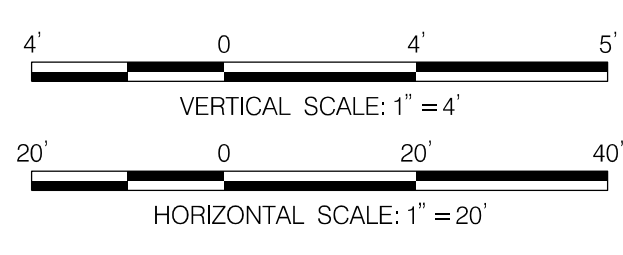


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ESD 1 TO EX-MH-6
 SEE PLAN SHEET SW-11



SW-13

NO.	REVISION	BY	APP'D	DATE

DESIGNED BY: KWC	DATE: OCTOBER, 2023
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DRAWING NO.:	DATE:
RECOMMENDED FOR APPROVAL	
Chief, Design Section _____	Date _____
APPROVED	
Chief, Division of Transportation Engineering _____	Date _____

DEPARTMENT OF TRANSPORTATION
 DIVISION OF TRANSPORTATION ENGINEERING
 MONTGOMERY COUNTY, MARYLAND

AMHERST AVE CYCLE TRACK
 STORMWATER MANAGEMENT PLAN

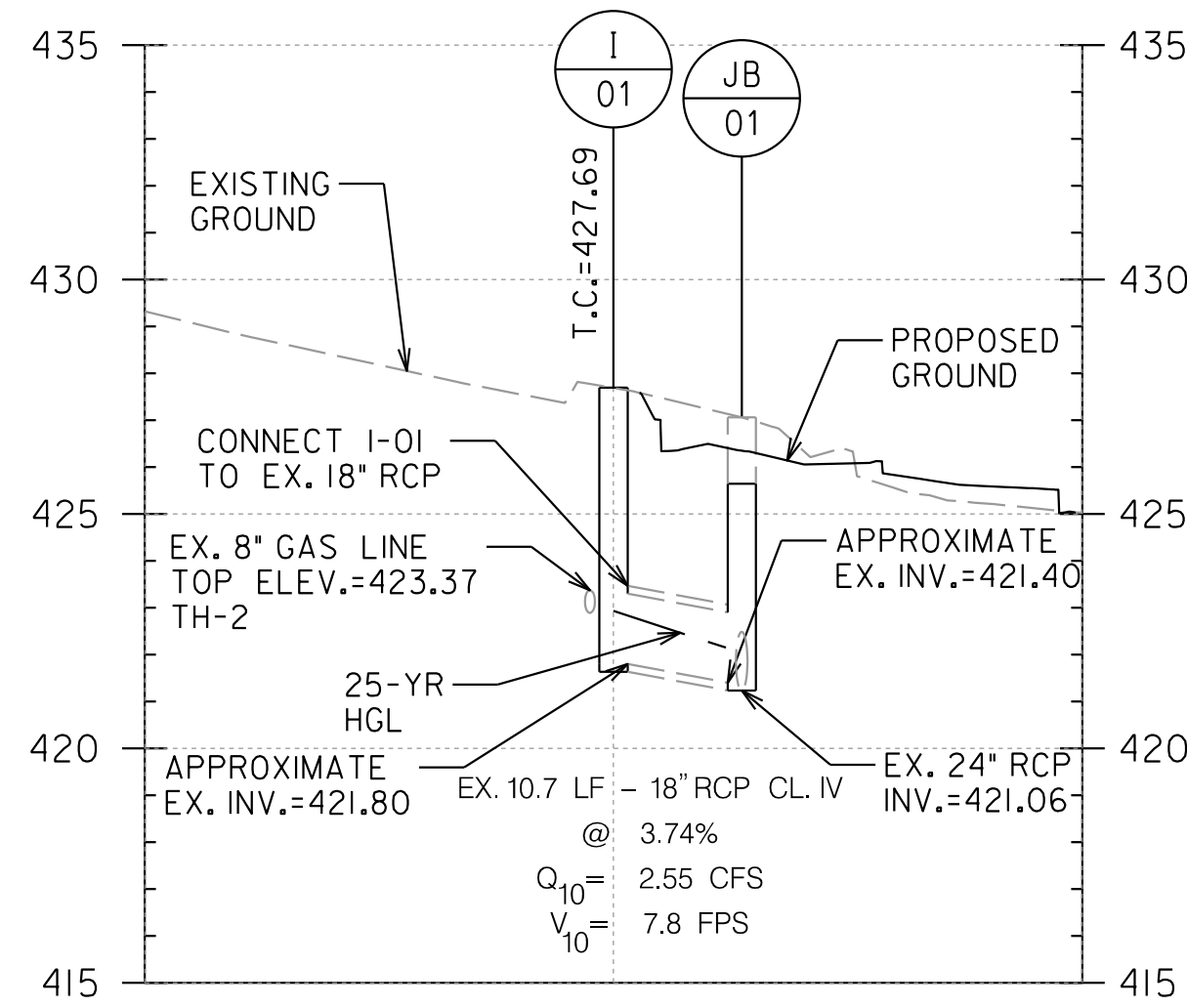
SCALE: H: 1"=20', V: 1"=4' SHEET 62 of 208

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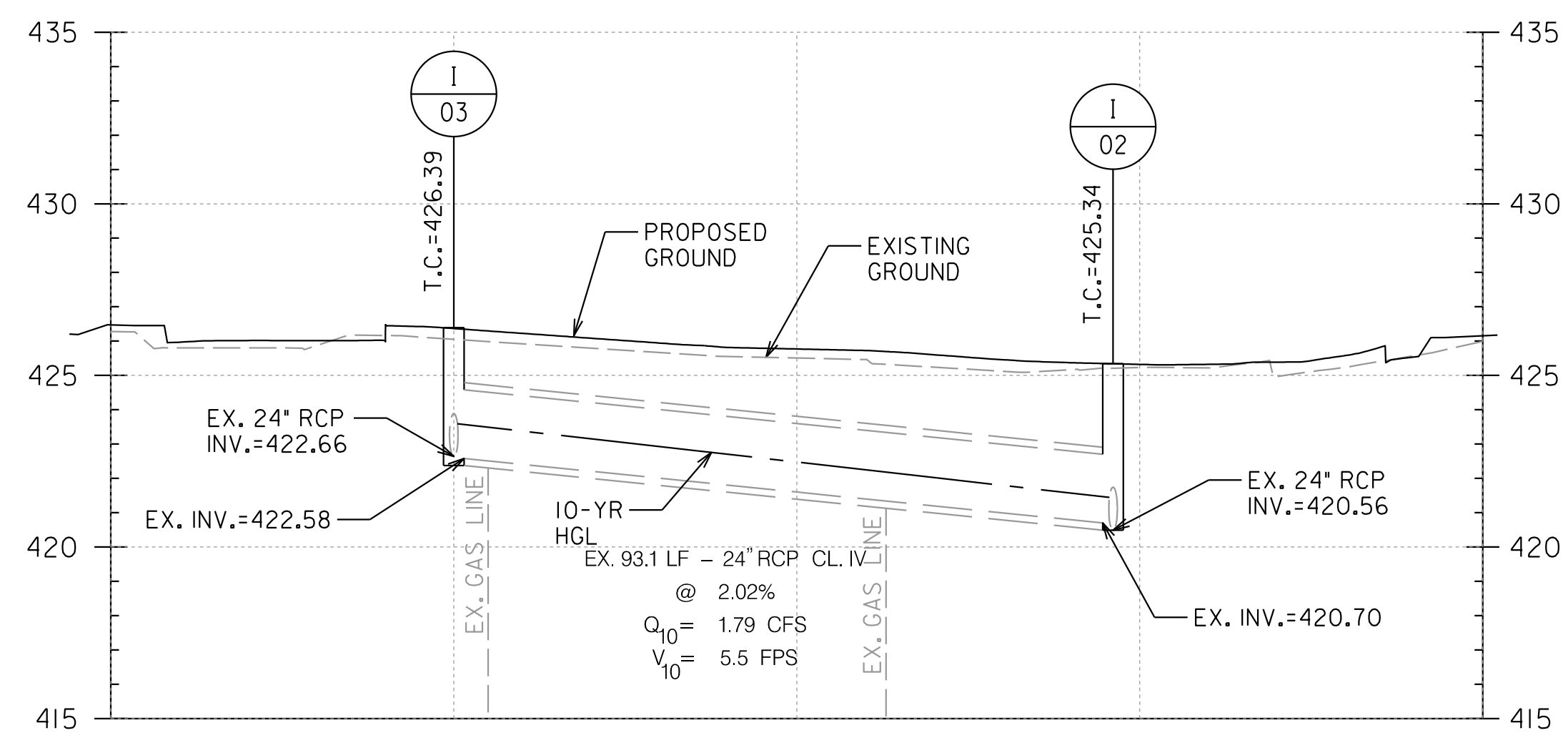


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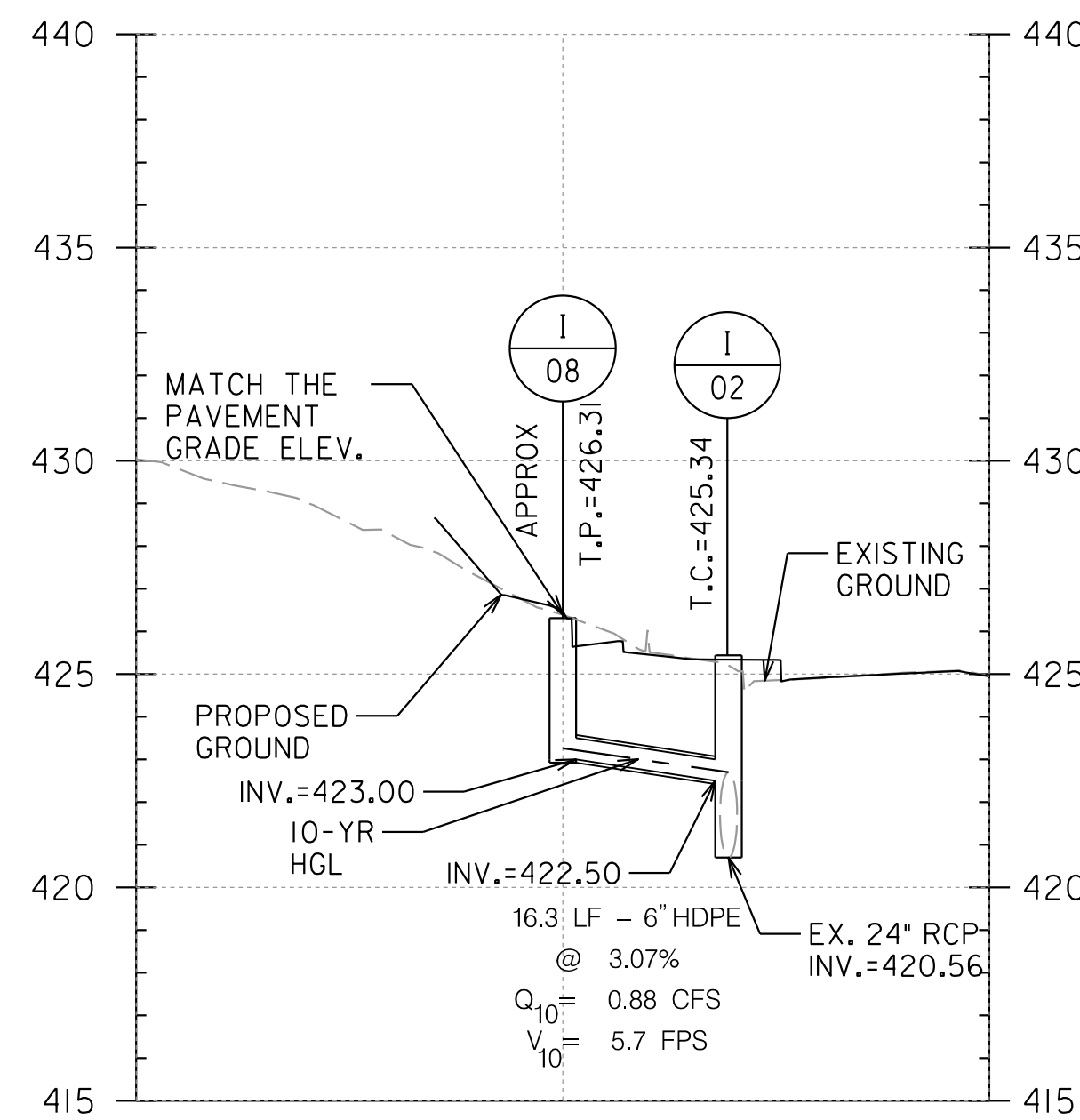
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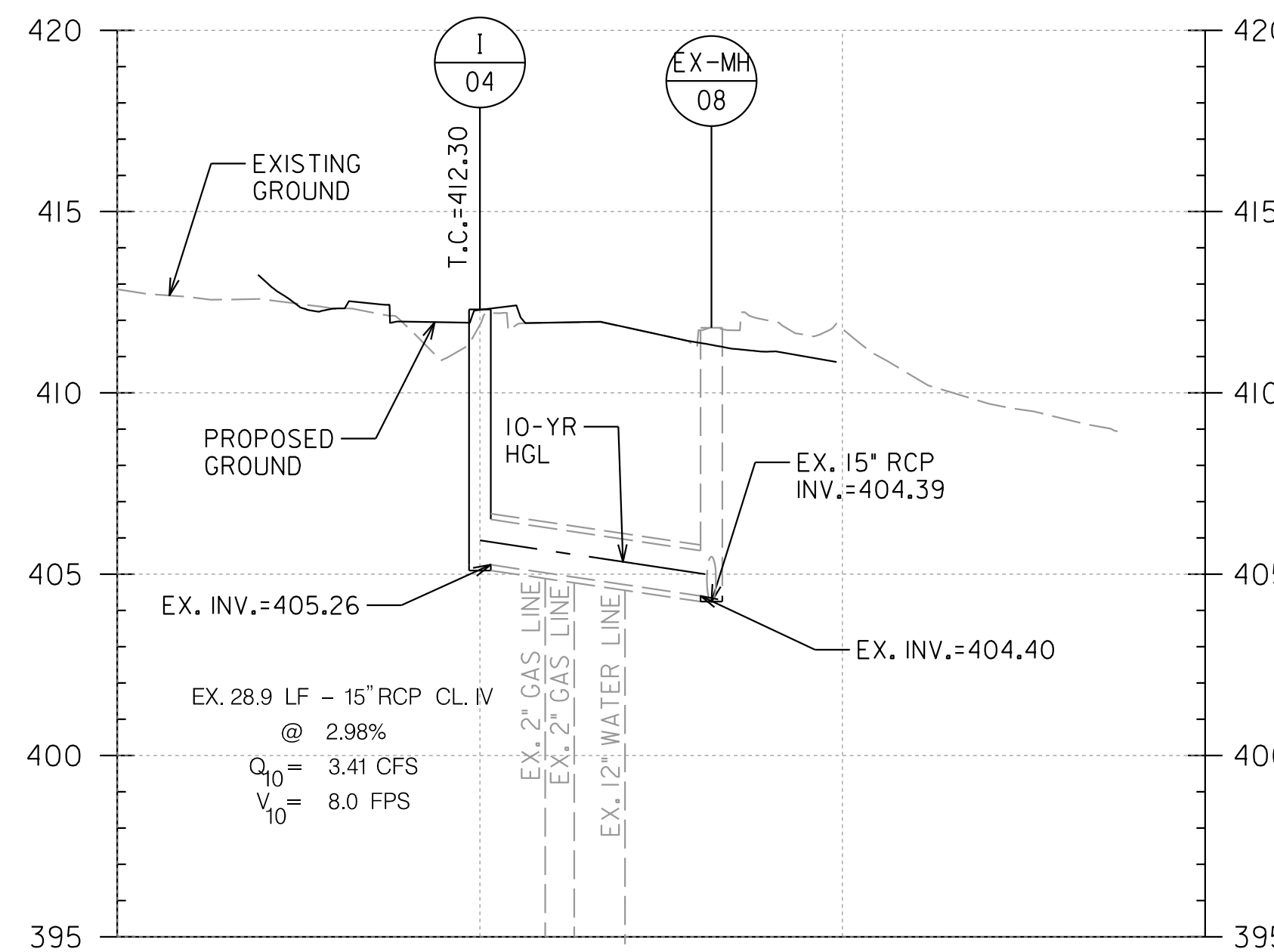
I-01 TO MH-01
 SEE PLAN SHEET HD-07



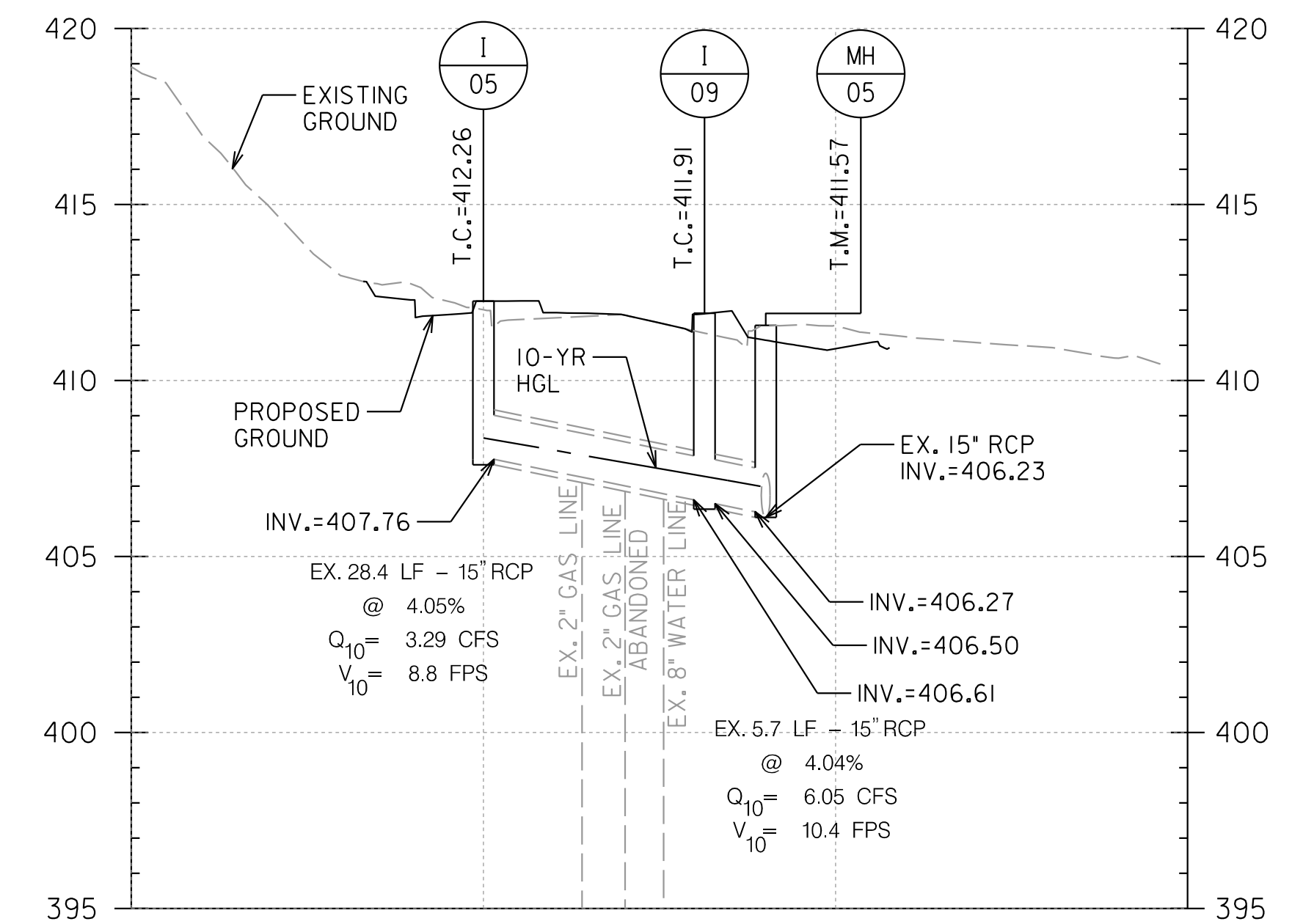
I-03 TO I-02
 SEE PLAN SHEET HD-07



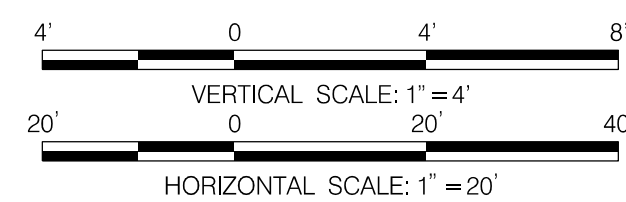
I-08 TO I-02
 SEE PLAN SHEET HD-07



I-04 TO EX-MH-8
 SEE PLAN SHEET HD-10



I-05 TO MH-05
 SEE PLAN SHEET HD-10



NO.	REVISION	BY	APP'D	DATE	DESIGNED BY: BDP	DATE: OCTOBER, 2023
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					Chief, Design Section	Date
					APPROVED	
					Chief, Division of Transportation Engineering	Date

DEPARTMENT OF TRANSPORTATION
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 MONTGOMERY COUNTY, MARYLAND

AMHERST AVE CYCLE TRACK
 PIPE PROFILES

SCALE: H- 1"=20'; V- 1"=5'

SHEET 63 of 208

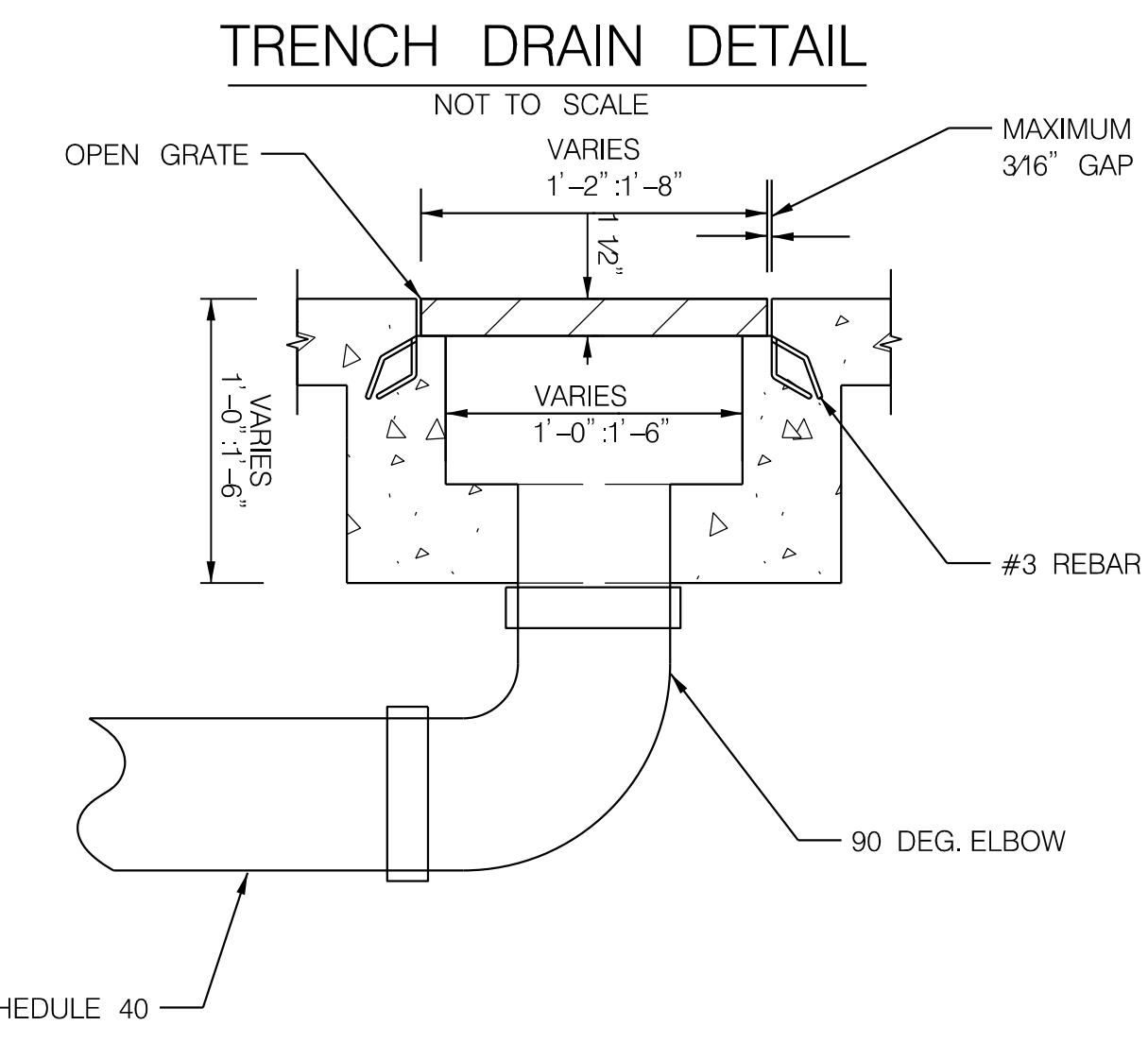
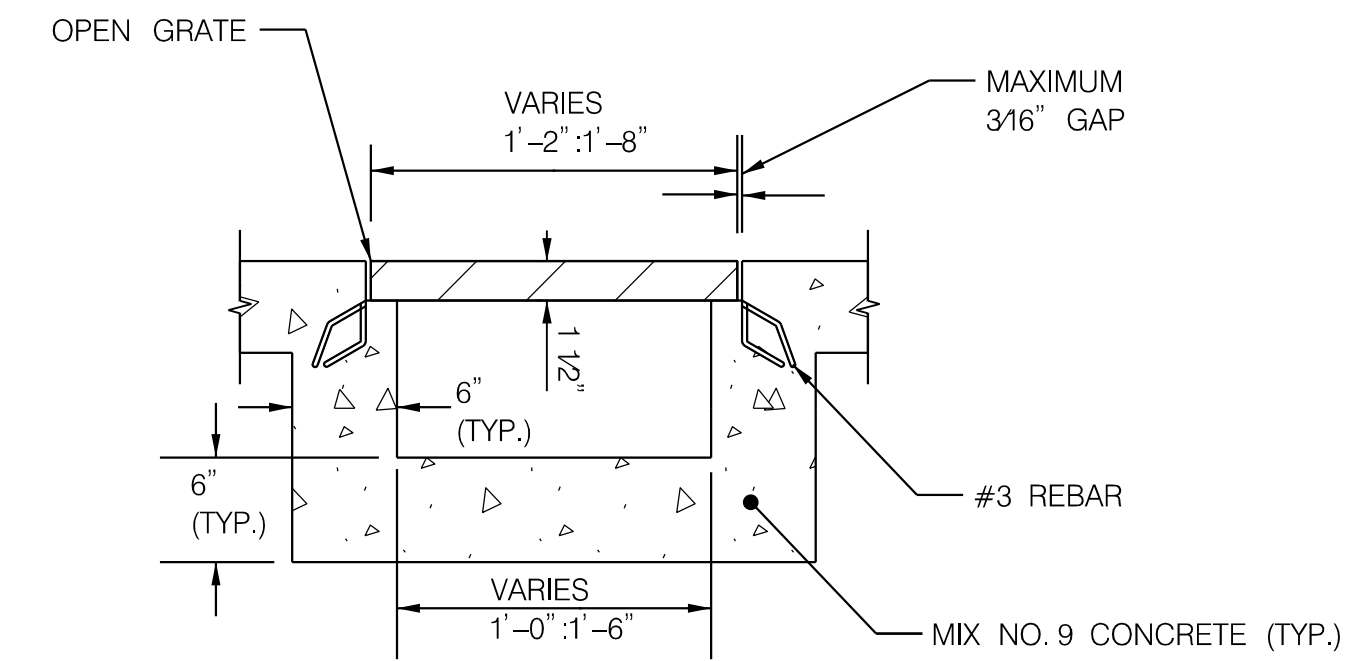


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DP-01

STRUCTURE SCHEDULE						
STRUCTURE	STATION	OFFSET	TYPE	TOP ELEV.	STANDARD	REMARKS
I-01	134+84	70.23' LT	STANDARD COG INLET	427.69	MDSHA 374.31	20' THROAT OPENING
I-02	200+88	20.00' LT	MCDOT TYPE B INLET	425.34	MC-502.01	10' THROAT OPENING
I-03	201+85	20.00' LT	MCDOT TYPE B INLET	426.39	MC-502.01	10' THROAT OPENING
I-04	212+77	14.43' LT	MCDOT TYPE B INLET	412.30	MC-502.01	15' THROAT OPENING
I-05	213+82	19.49' LT	MCDOT TYPE B INLET	412.26	MC-501.01	20' THROAT OPENING
I-06	220+58	32.90' LT	PRECAST COG OPENING	417.83	MDSHA 374.68	10' THROAT OPENING
I-07	207+09	27.33' LT	MCDOT TYPE B INLET	431.11	MC-502.01	10' THROAT OPENING
I-08	200+98	41.71' LT	TRENCH DRAIN	426.31	SEE SHEET DP-02	52' LONG GRATE
I-09	213+81	12.96' RT	MCDOT TYPE B INLET	411.91	MC-501.01	20' THROAT OPENING
JB-01	134+80	48.53' LT	STANDARD JUNCTION BOX		MDSHA 386.11	CONVERT EX. INLET TO A JUNCTION BOX
MH-05	213+80	20.47' RT	MCDOT TYPE A MANHOLE	411.57	MC-510.01	MCDOT ST'D MANHOLE
MH-06	221+45	59.78' RT	STANDARD MANHOLE	415.00	MDSHA 383.01	MDSHA CONCRETE MANHOLE
ESD 1	220+85	43.78' LT	MICRO-BIORETENTION	417.50	M-6	MDSHA MICRO-BIORETENTION
ESD 2	220+80	23.20' RT	MICRO-BIORETENTION	416.50	M-6	MDSHA MICRO-BIORETENTION



PIPE SCHEDULE							
UPSTREAM STRUCTURE	DOWNSTREAM STRUCTURE	SIZE	TYPE	LENGTH (FT)	UPSTREAM INVERT	DOWNSTREAM INVERT	COMMENTS
I-01	JB-01	18"	RCP CLASS IV	10.7	421.80	421.40	EX. 18" RCP
I-03	I-02	24"	RCP CLASS IV	93.1	422.58	420.70	EX. 24" RCP
I-04	EX-MH-08	15"	RCP CLASS IV	28.9	405.26	404.40	EX. 15" RCP
I-05	I-09	15"	RCP CLASS IV	28.4	407.76	406.61	EX. 15" RCP
I-09	MH-05	15"	RCP CLASS IV	5.7	406.50	406.27	EX. 15" RCP
I-08	I-02	6"	HDPE	16.3	423.00	422.50	
ESD 1	ESD 2	15"	RCP CLASS IV	65.8	413.50	412.83	
ESD 2	MH-06	15"	RCP CLASS IV	72.0	412.50	411.76	CONNECT MH-06 TO EX 15" RCP

DP-02

NO.	REVISION	BY	APP'D	DATE

DESIGNED BY: BDP	DATE: OCTOBER, 2023
DRAWN BY: BDP	DATE: OCTOBER, 2023
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RECOMMENDED FOR APPROVAL	
Chief, Design Section	Date
APPROVED	
Chief, Division of Transportation Engineering	Date

DEPARTMENT OF TRANSPORTATION
DIVISION OF TRANSPORTATION ENGINEERING
MONTGOMERY COUNTY, MARYLAND

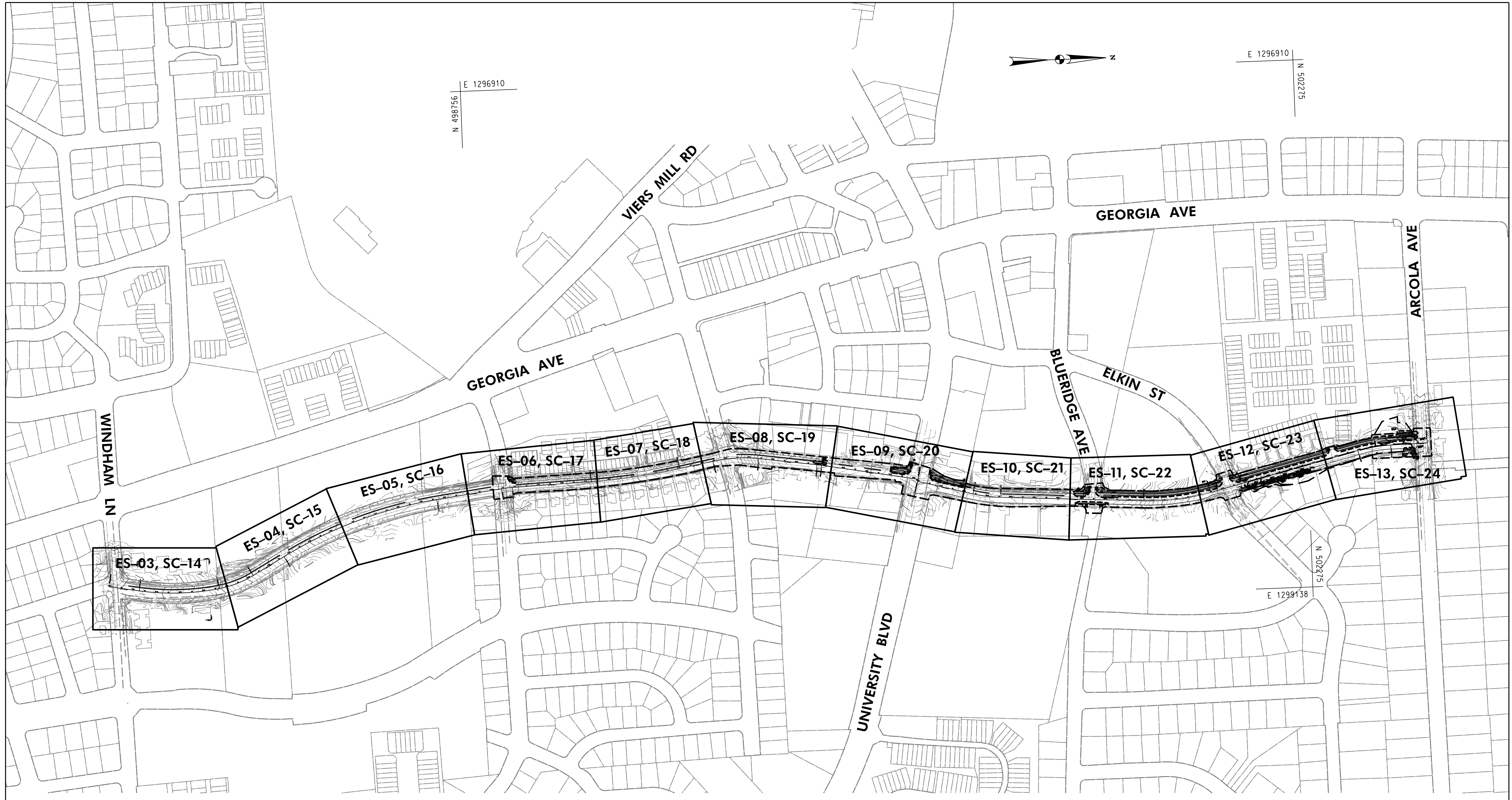
STORM DRAIN SCHEDULE AND DETAILS
AMHERST AVE
CYCLE TRACK

SCALE: H- 1"=20'; V- 1"=5'
 SHEET 64 of 208

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ES-KY



NO.	REVISION	BY	APP'D	DATE

DESIGNED BY: KWC	DATE: OCTOBER, 2023
DRAWN BY: KCY	DATE: OCTOBER, 2023
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Chief, Design Section	Date
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Chief, Division of Transportation Engineering	Date

DEPARTMENT OF TRANSPORTATION
DIVISION OF TRANSPORTATION ENGINEERING
MONTGOMERY COUNTY, MARYLAND

AMHERST AVE CYCLE TRACK
EROSION & SEDIMENT CONTROL PLAN

SCALE: 1"=200' SHEET 66 of 208



PROFESSIONAL CERTIFICATION:
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SEQUENCE OF CONSTRUCTION

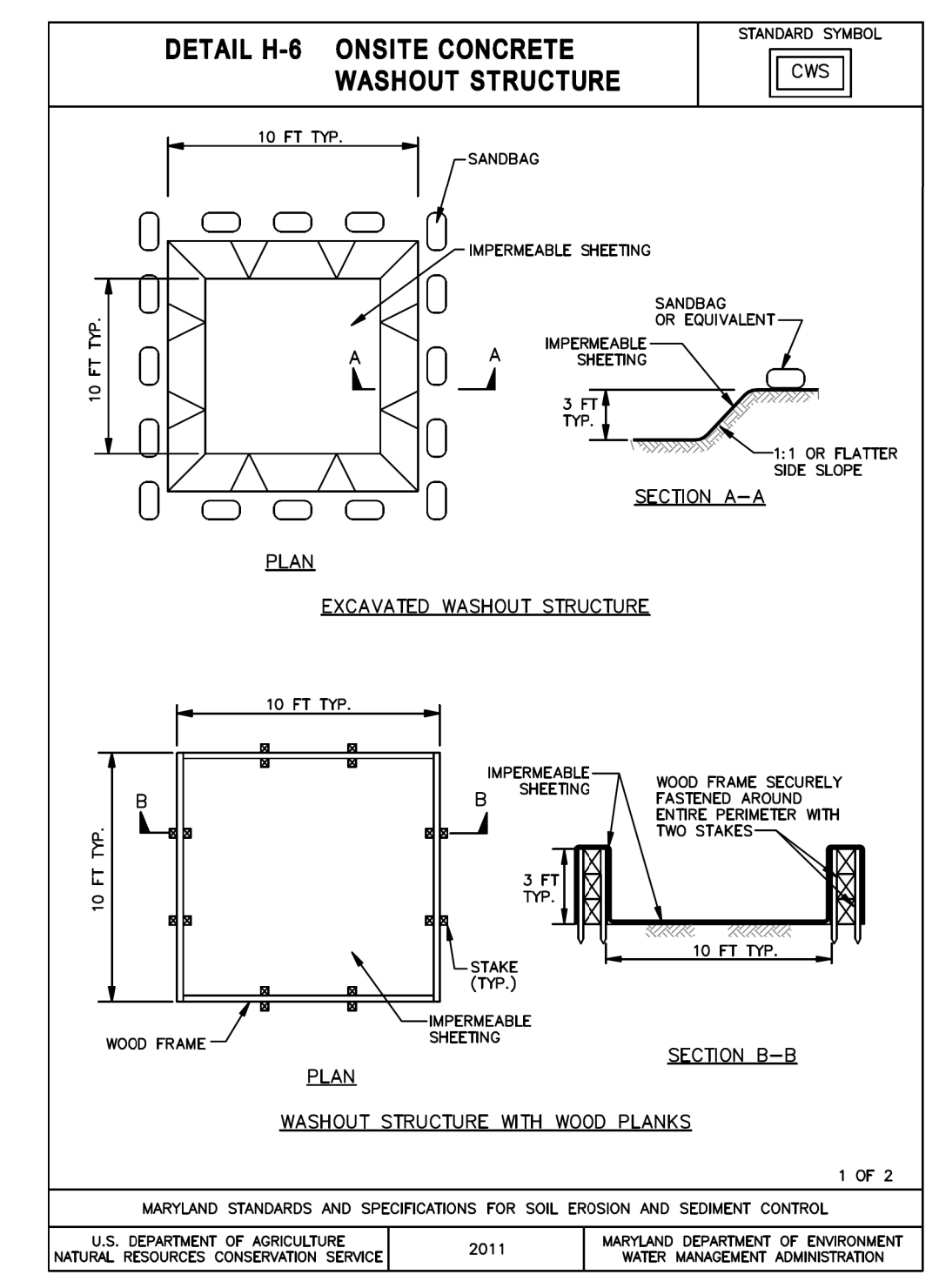
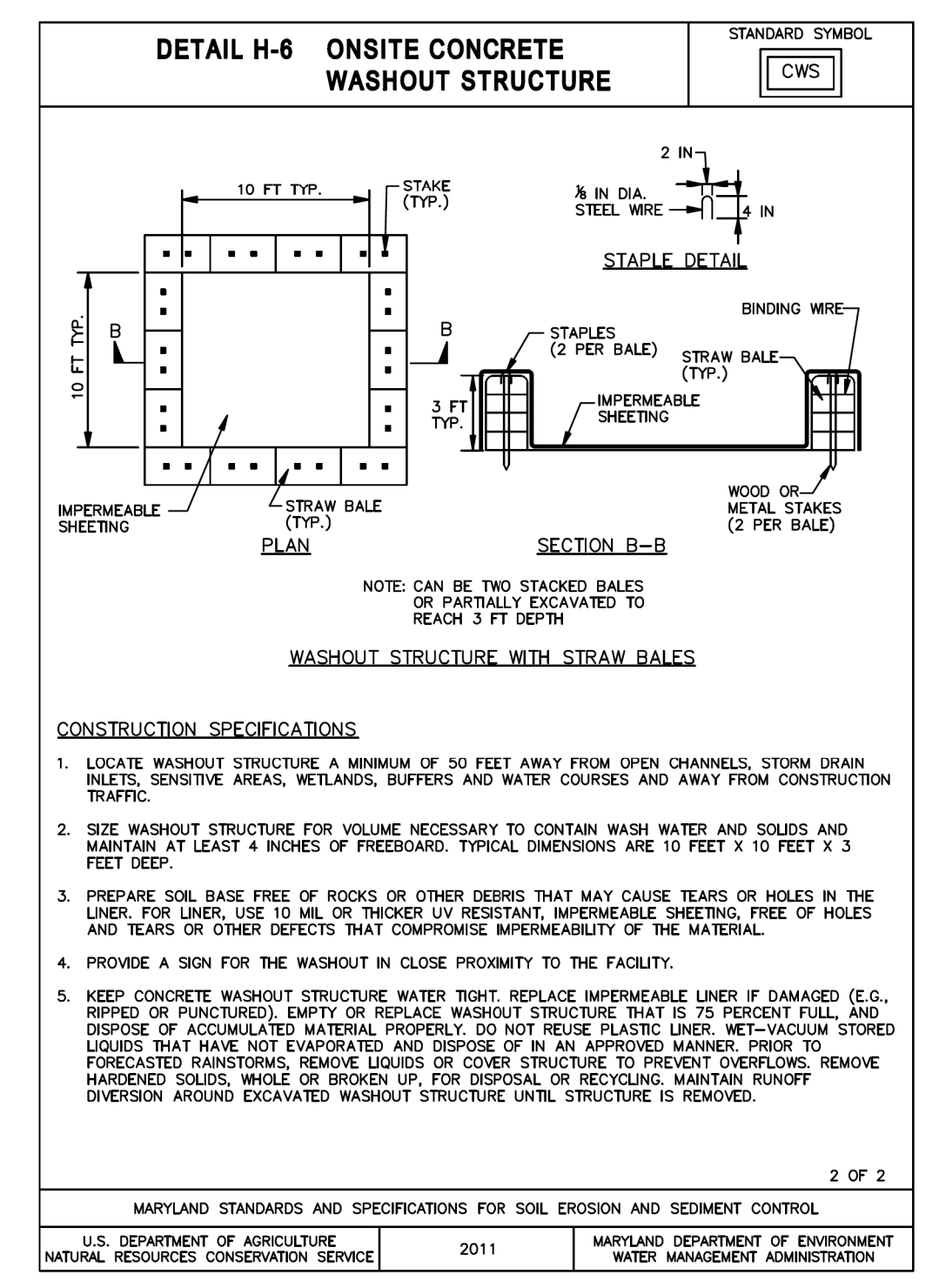
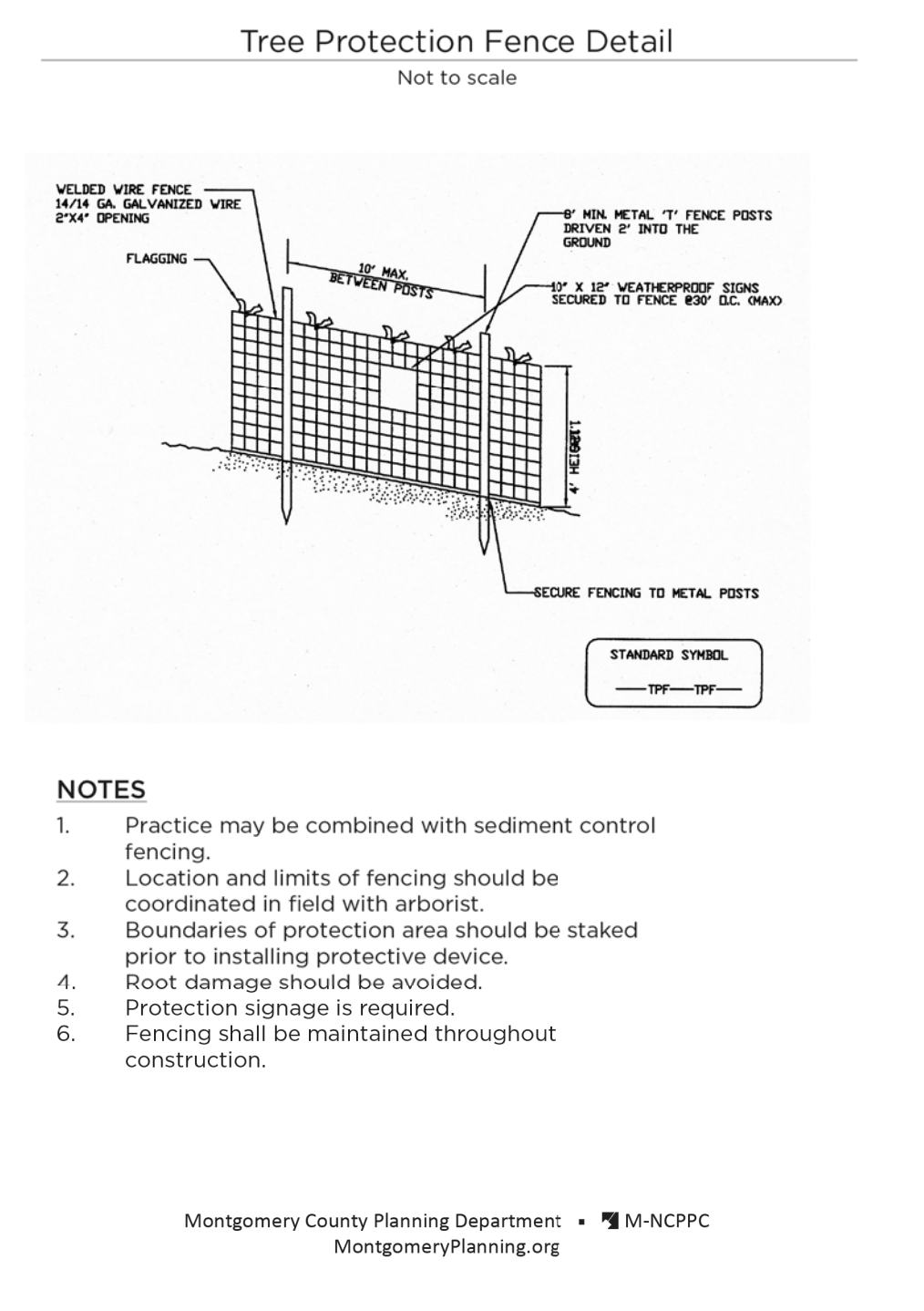
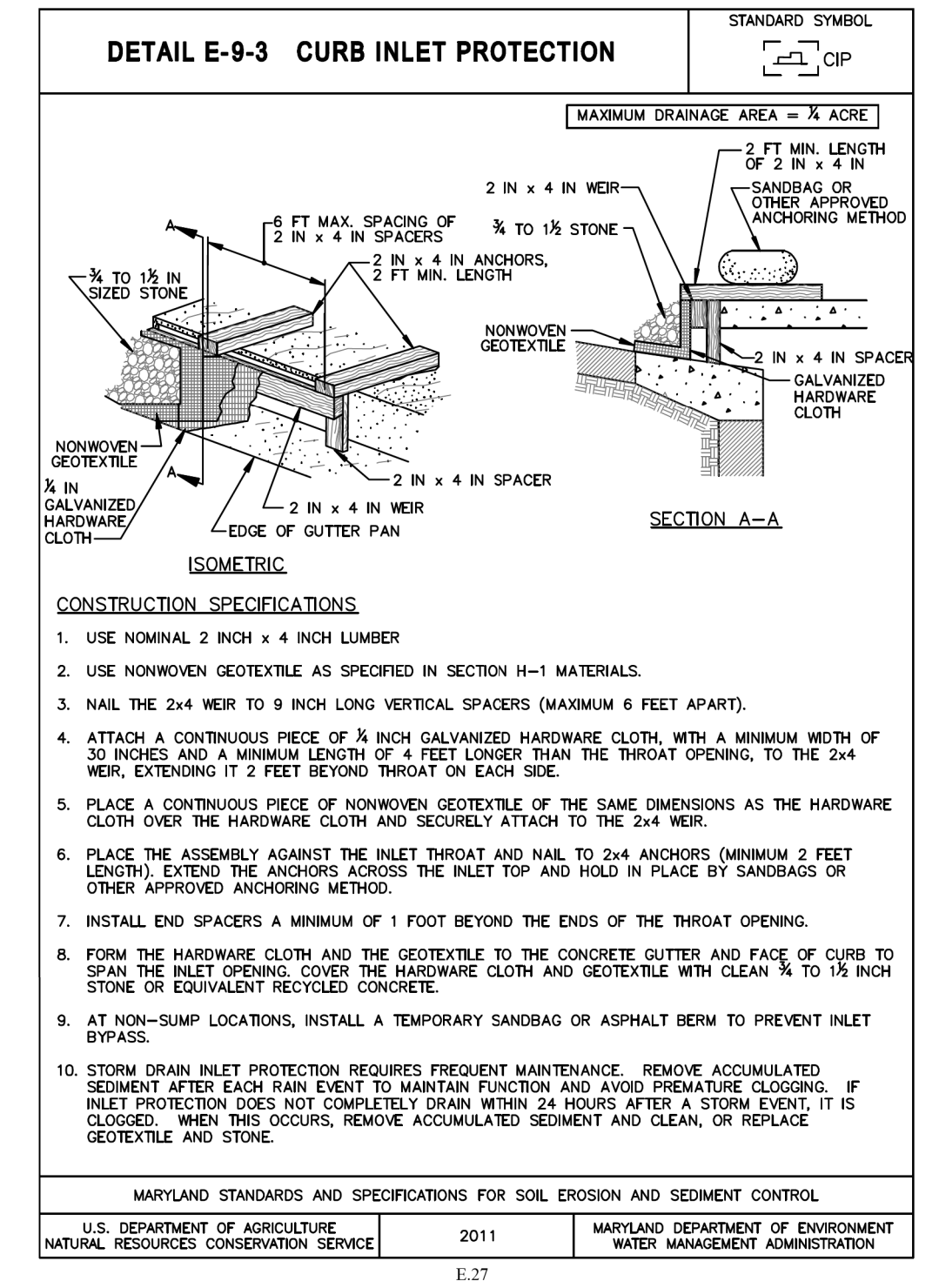
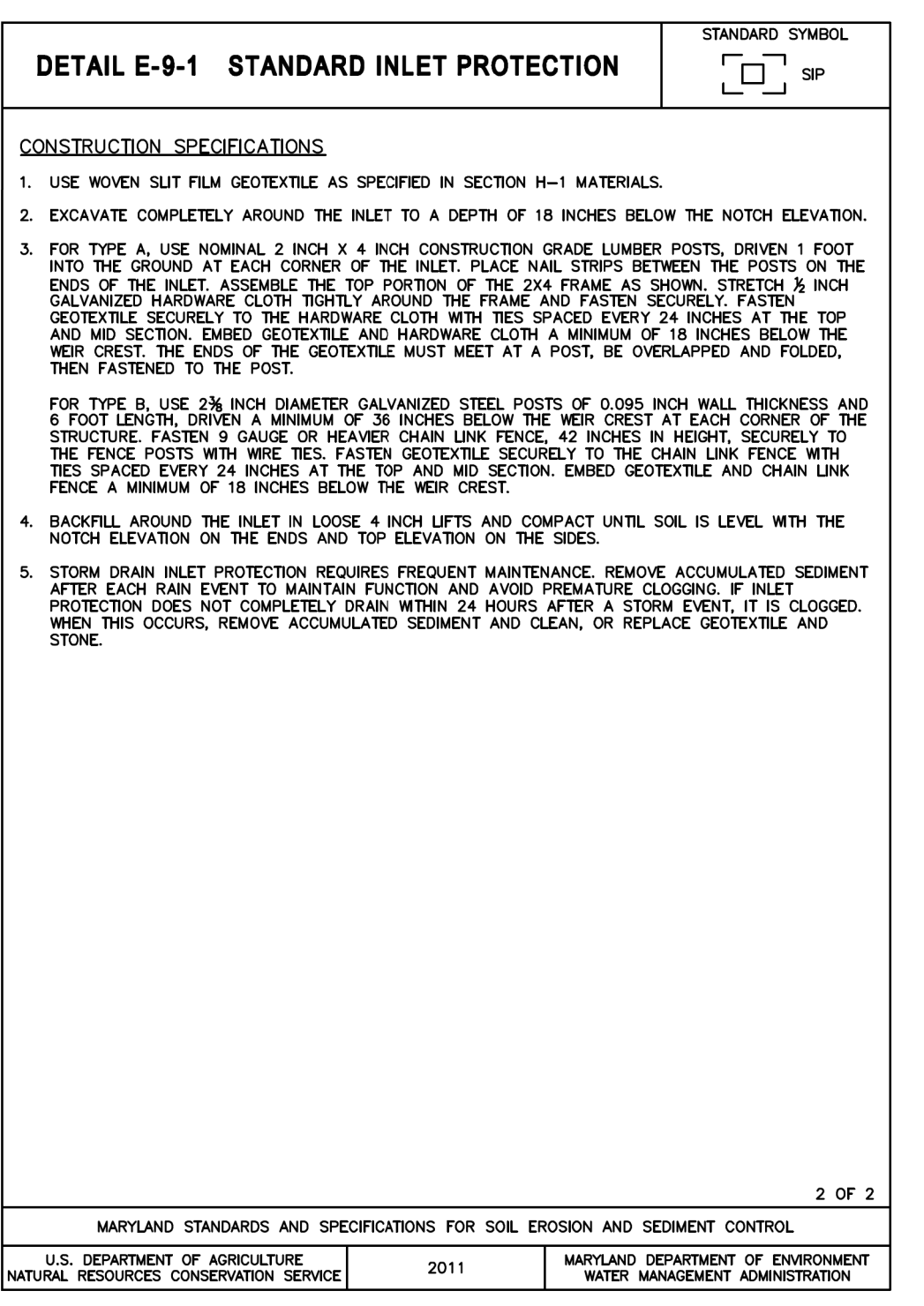
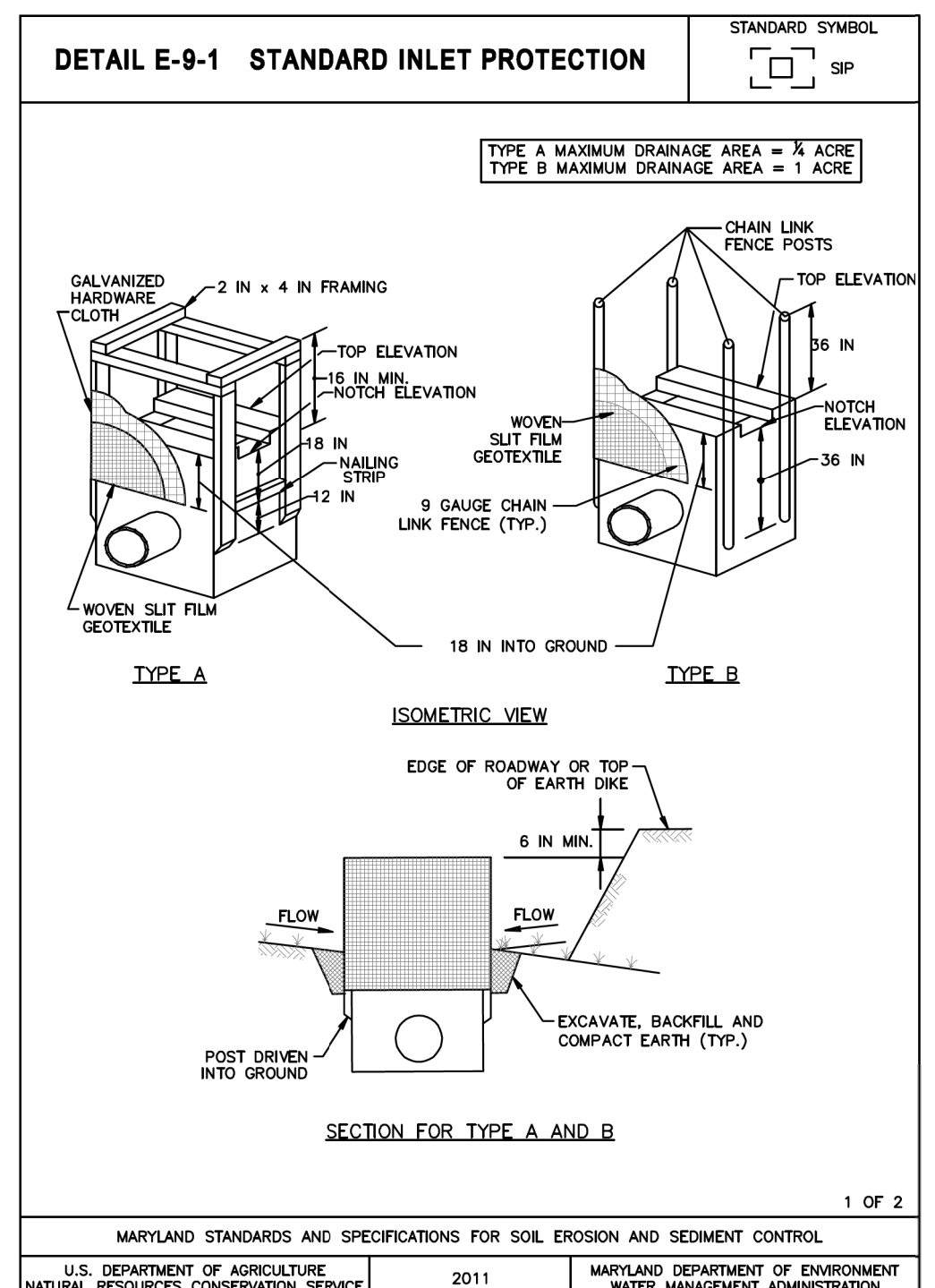
Amherst Avenue Sta. 99+50 to 221+90:

1. 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. Clear and Grade for Installation of sediment control devices, only disturbing the area needed for installation of the sediment control devices.
5. Install Inlet Protection and 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.
6. Once installed, the permittee must obtain written approval from the MCDPS inspector before proceeding with any additional clearing, grubbing, or grading.
7. Construct roadway, storm drain improvements, curb, sidewalk, grading, and SWM facilities.
8. Permanently stabilize disturbed roadside area with topsoil, seed and mulch as indicated on the Typical Sections and Landscape plans.
9. 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:

1. 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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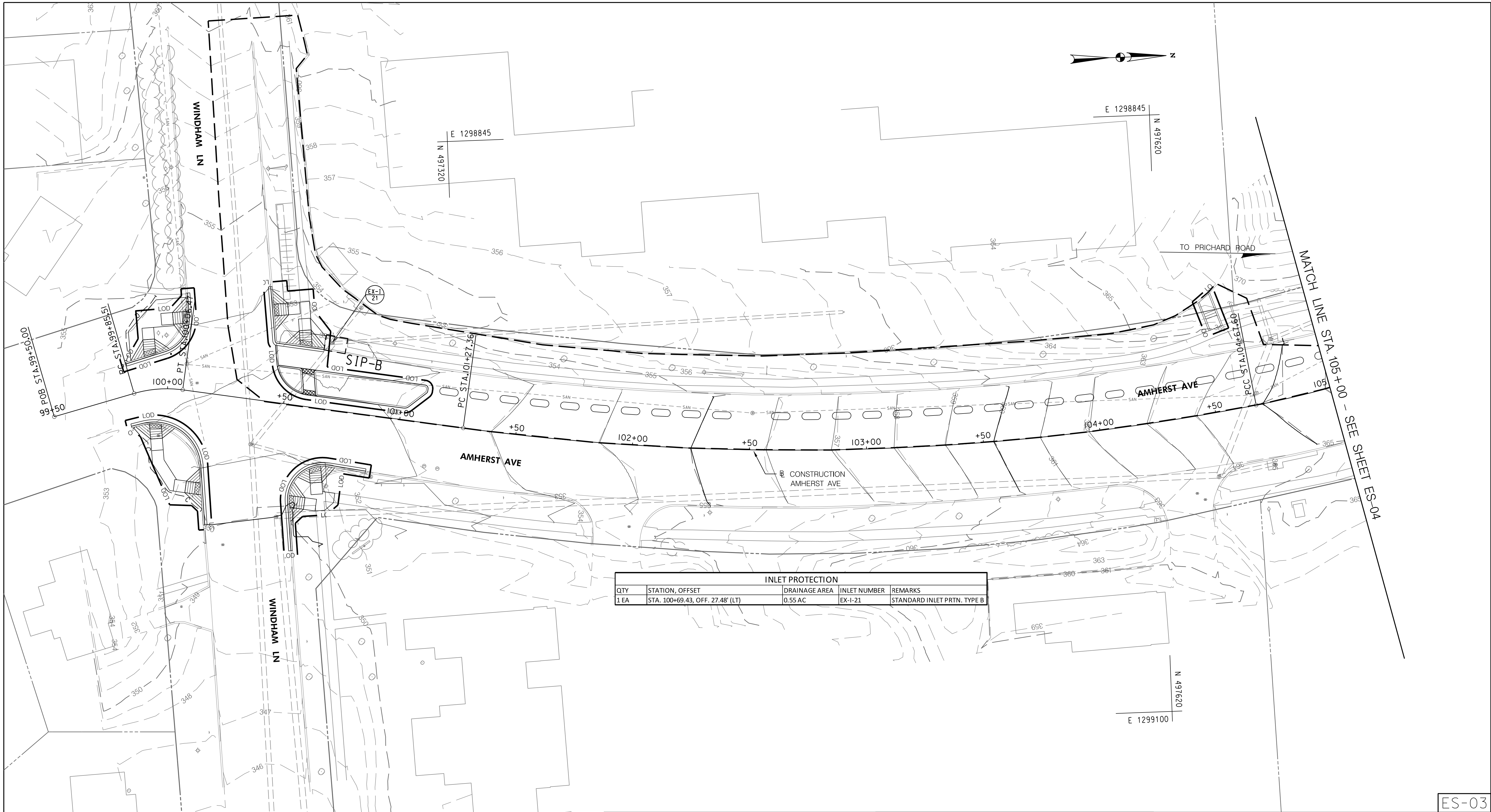
DESIGNED BY: KWC	DATE: OCTOBER, 2023
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DRAWING NO.:	DATE:
RECOMMENDED FOR APPROVAL	
Chief, Design Section	Date
APPROVED	
Chief, Division of Transportation Engineering	Date

ES-02

DEPARTMENT OF TRANSPORTATION
DIVISION OF TRANSPORTATION ENGINEERING
MONTGOMERY COUNTY, MARYLAND

AMHERST AVE CYCLE TRACK
EROSION & SEDIMENT CONTROL NOTES

SCALE: N.T.S. SHEET 68 of 208



INLET PROTECTION				
QTY	STATION, OFFSET	DRAINAGE AREA	INLET NUMBER	REMARKS
1 EA	STA. 100+69.43, OFF. 27.48' (LT)	0.55 AC	EX-I-21	STANDARD INLET PRTN. TYPE B

ES-03

NO.	REVISION	BY	APP'D	DATE

DESIGNED BY: KWC	DATE: OCTOBER, 2023
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Chief, Division of Transportation Engineering _____	Date _____

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MONTGOMERY COUNTY, MARYLAND

AMHERST AVE CYCLE TRACK
EROSION & SEDIMENT CONTROL PLAN

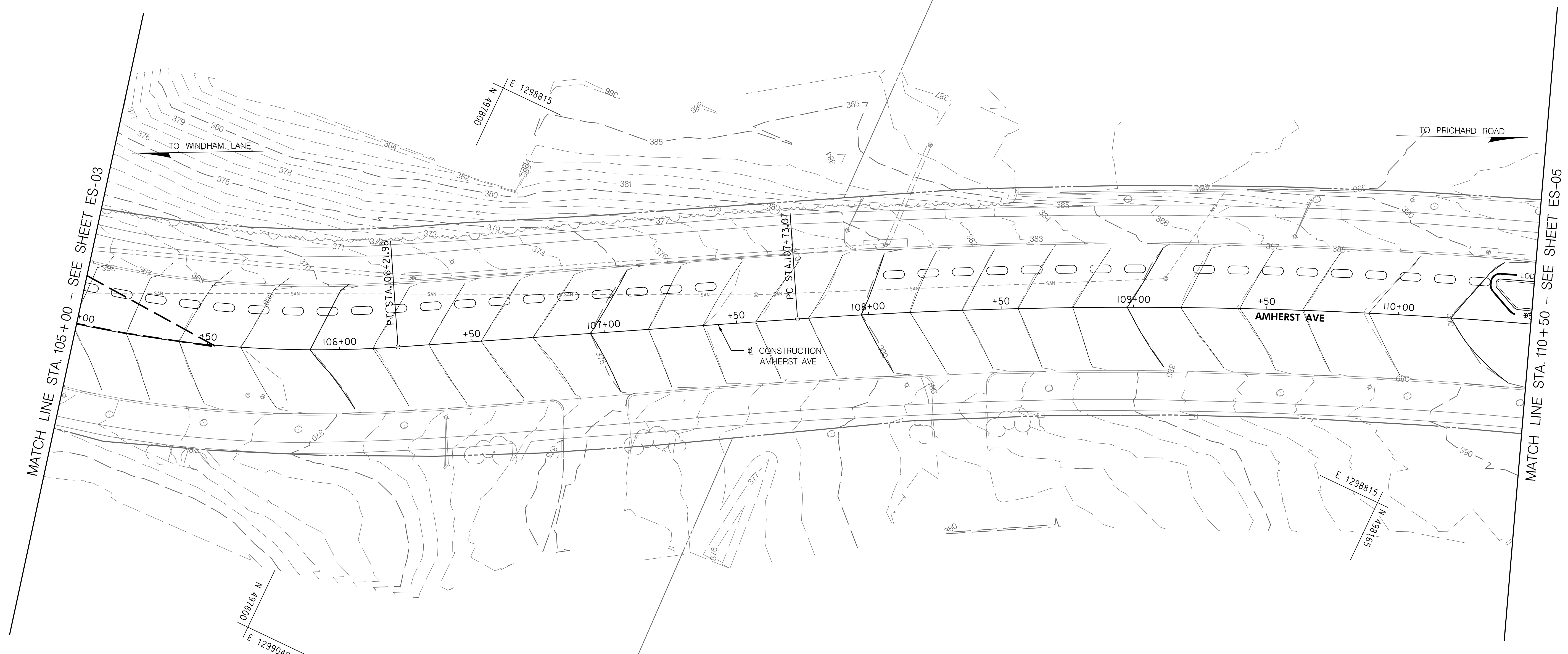
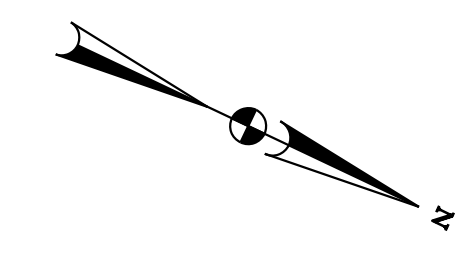
SCALE: 1"=20' SHEET 69 of 208



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MATCH LINE STA. 105+00 - SEE SHEET ES-03

MATCH LINE STA. 110+50 - SEE SHEET ES-05

ES-04

NO.	REVISION	BY	APP'D	DATE

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Chief, Design Section _____	Date _____
APPROVED	
Chief, Division of Transportation Engineering _____	Date _____

DEPARTMENT OF TRANSPORTATION
DIVISION OF TRANSPORTATION ENGINEERING
MONTGOMERY COUNTY, MARYLAND

AMHERST AVE CYCLE TRACK
EROSION & SEDIMENT CONTROL PLAN

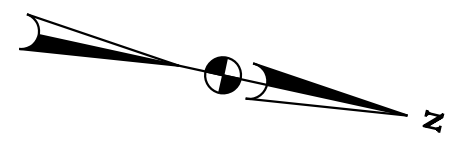
SCALE: 1"=20' SHEET 70 of 208




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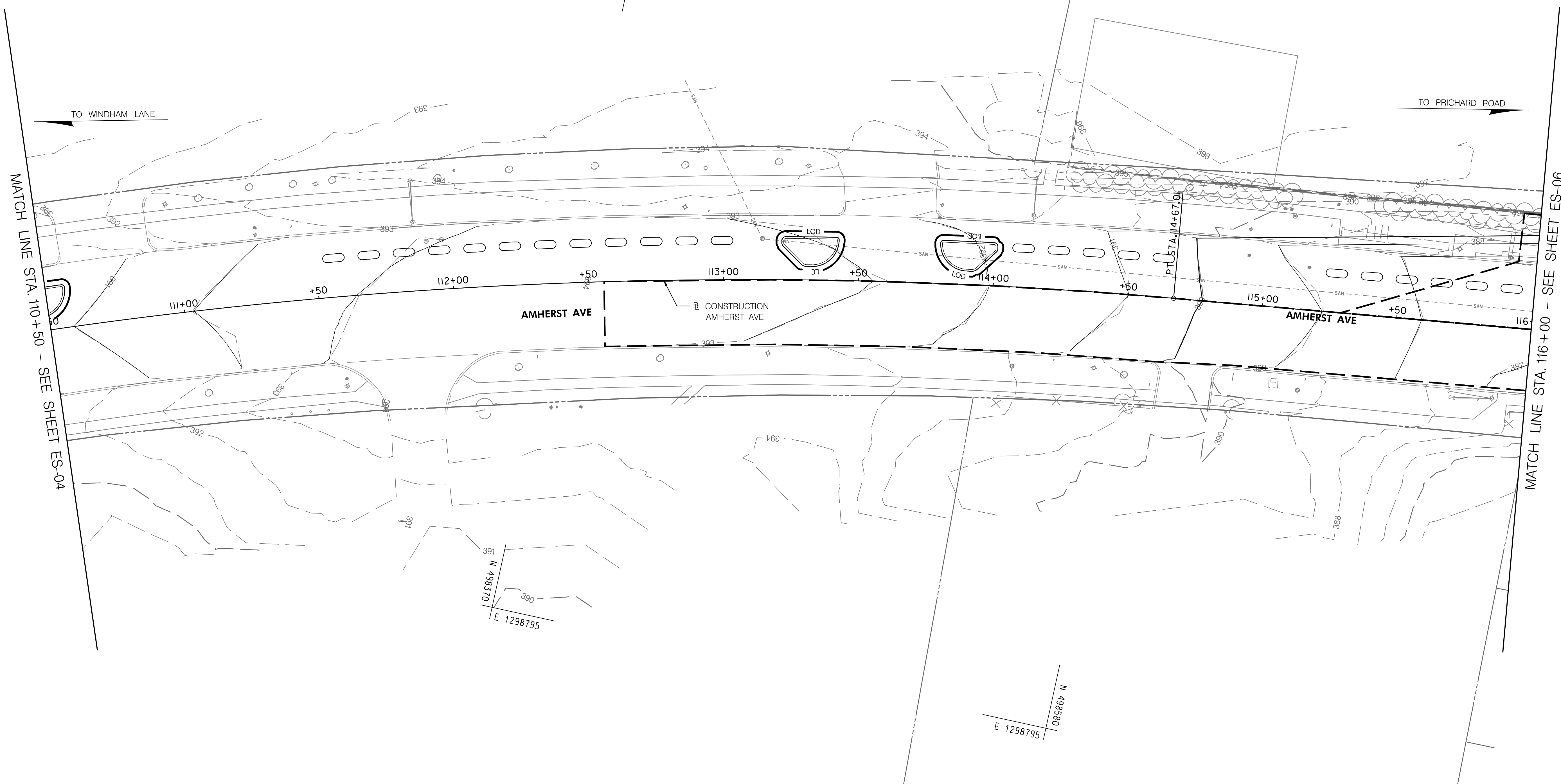
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N 498370

E 1298795
N 498370

E 1298795
N 498580



ES-05

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APPROVED	
Chief, Division of Transportation Engineering _____	Date _____

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MONTGOMERY COUNTY, MARYLAND

AMHERST AVE CYCLE TRACK
EROSION & SEDIMENT CONTROL PLAN

SCALE: 1"=20' SHEET 71 of 208

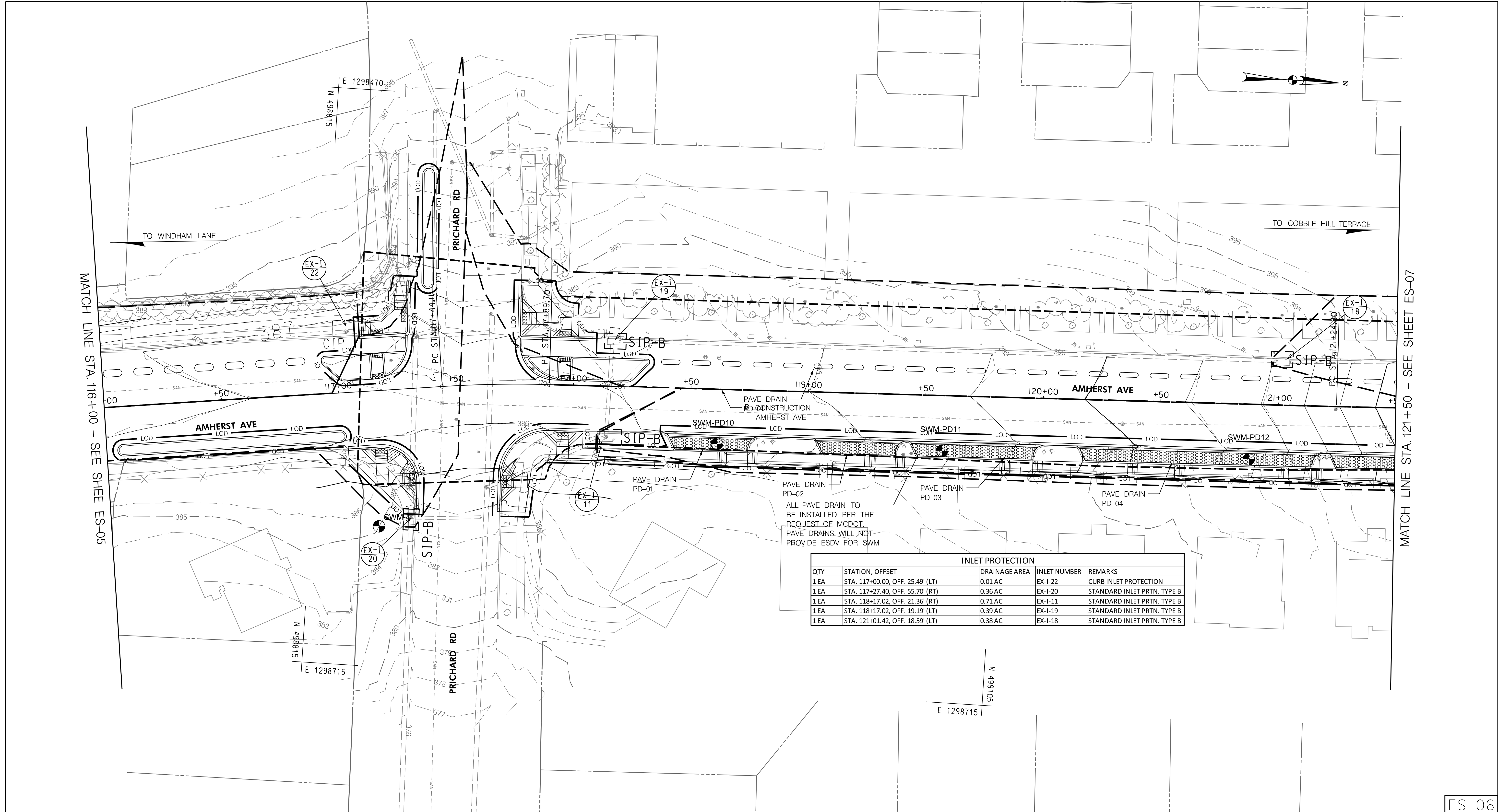


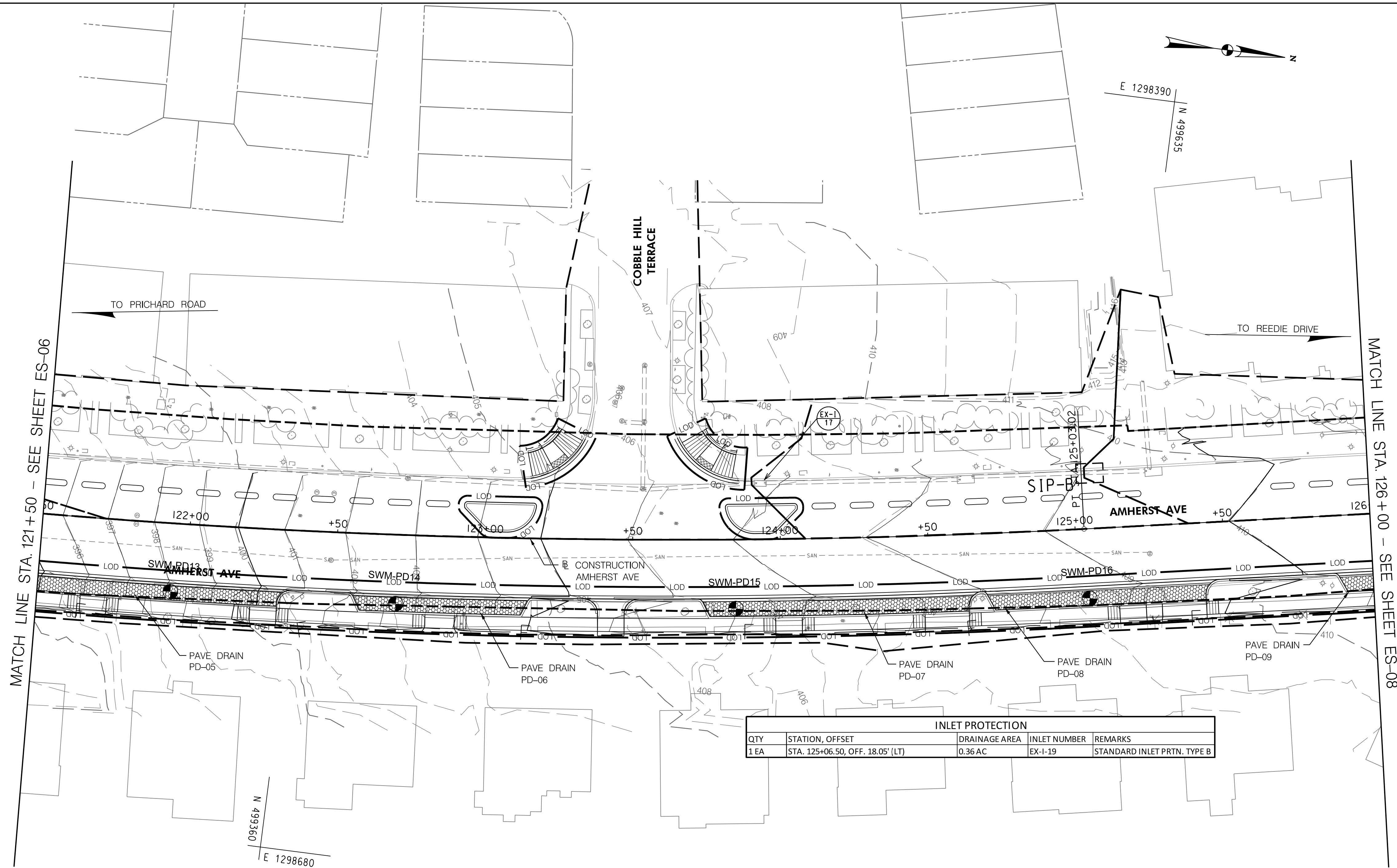

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10/9/2023
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INLET PROTECTION				
QTY	STATION, OFFSET	DRAINAGE AREA	INLET NUMBER	REMARKS
1 EA	STA. 125+06.50, OFF. 18.05' (LT)	0.36 AC	EX-I-19	STANDARD INLET PRTN. TYPE B

ES-07

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Chief, Design Section _____	Date _____
APPROVED	
Chief, Division of Transportation Engineering _____	Date _____

DEPARTMENT OF TRANSPORTATION
DIVISION OF TRANSPORTATION ENGINEERING
MONTGOMERY COUNTY, MARYLAND

AMHERST AVE CYCLE TRACK
EROSION & SEDIMENT CONTROL PLAN

SCALE: 1"=20' SHEET 73 of 208



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ES-08

NO.	REVISION	BY	APP'D	DATE

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APPROVED	
Chief, Division of Transportation Engineering	Date

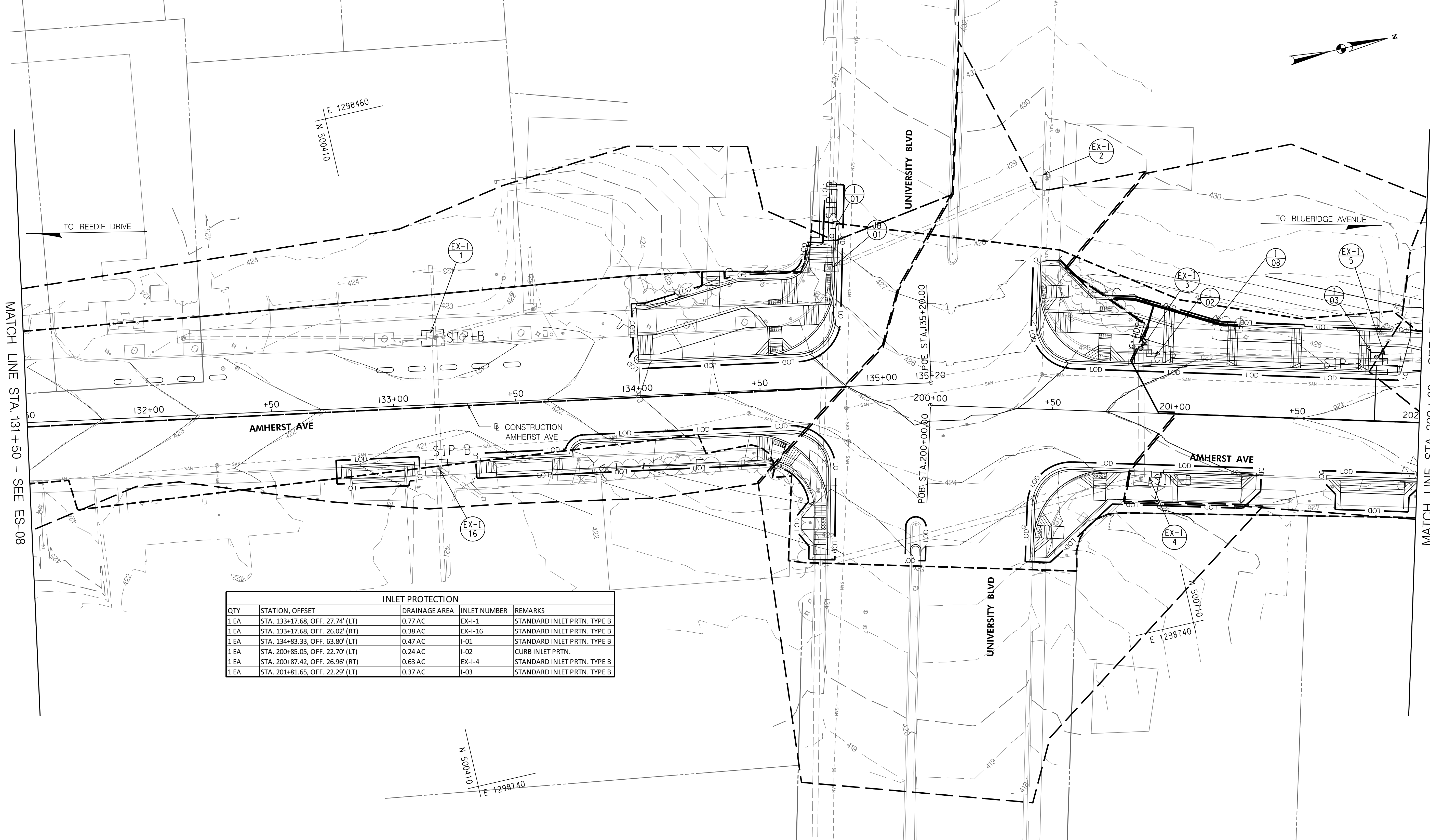
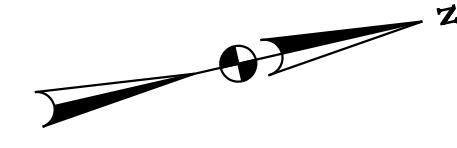
DEPARTMENT OF TRANSPORTATION
 DIVISION OF TRANSPORTATION ENGINEERING
 MONTGOMERY COUNTY, MARYLAND

AMHERST AVE CYCLE TRACK
 EROSION & SEDIMENT CONTROL PLAN

SCALE: 1"=20' SHEET 74 of 208

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MATCH LINE STA. 131+50 - SEE ES-08

MATCH LINE STA. 202+00 - SEE ES-10

INLET PROTECTION				
QTY	STATION, OFFSET	DRAINAGE AREA	INLET NUMBER	REMARKS
1 EA	STA. 133+17.68, OFF. 27.74' (LT)	0.77 AC	EX-I-1	STANDARD INLET PRTN. TYPE B
1 EA	STA. 133+17.68, OFF. 26.02' (RT)	0.38 AC	EX-I-16	STANDARD INLET PRTN. TYPE B
1 EA	STA. 134+83.33, OFF. 63.80' (LT)	0.47 AC	I-01	STANDARD INLET PRTN. TYPE B
1 EA	STA. 200+85.05, OFF. 22.70' (LT)	0.24 AC	I-02	CURB INLET PRTN.
1 EA	STA. 200+87.42, OFF. 26.96' (RT)	0.63 AC	EX-I-4	STANDARD INLET PRTN. TYPE B
1 EA	STA. 201+81.65, OFF. 22.29' (LT)	0.37 AC	I-03	STANDARD INLET PRTN. TYPE B

ES-09

10/9/2023 U:\202621314\700 CADD\700 Sheet\pES-0007_AmherstAve.dgn

PROFESSIONAL CERTIFICATION:
I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED
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PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE
OF MARYLAND.
LICENSE NO: 25768 EXPIRATION DATE: 6 /23 /2025



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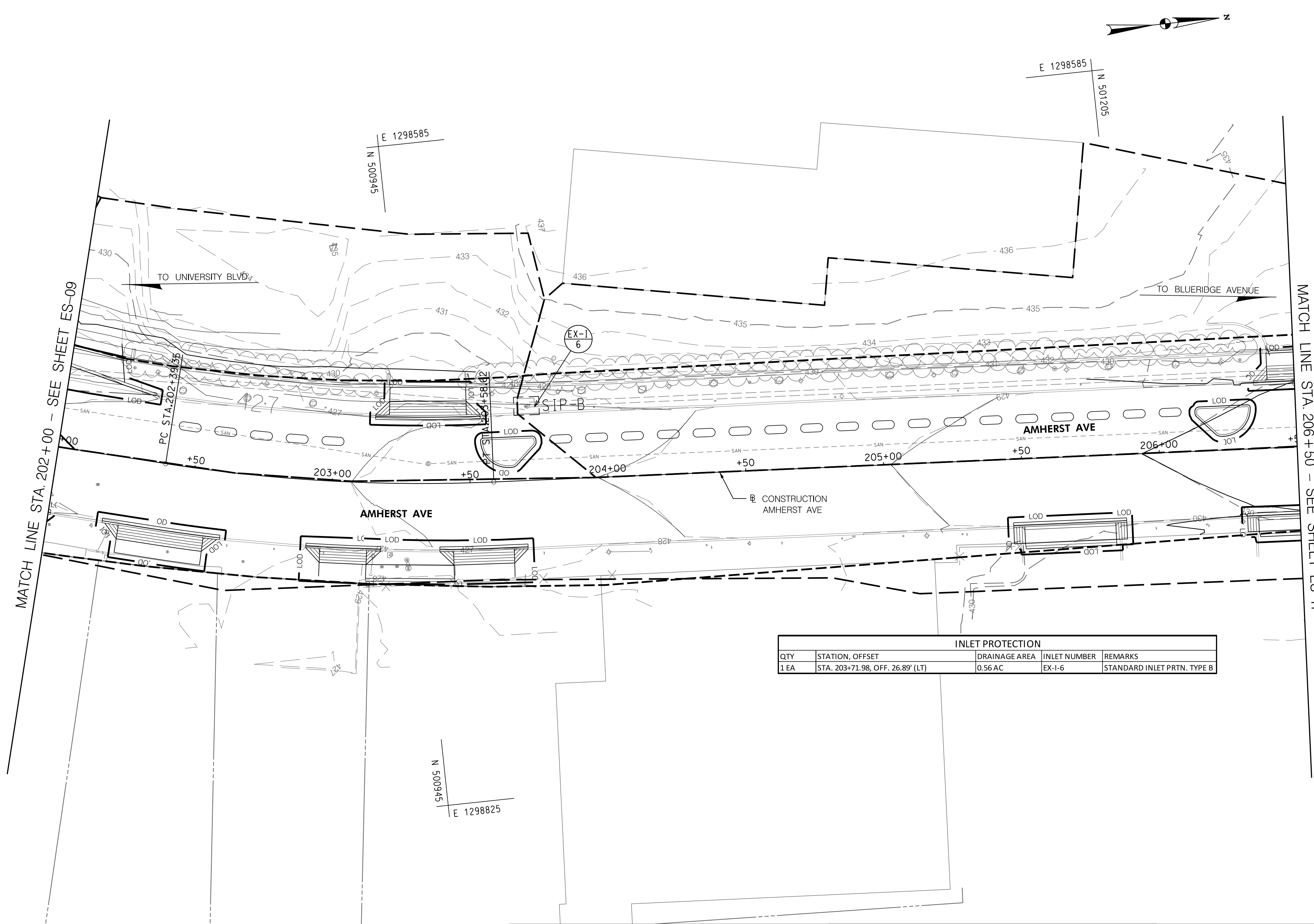


NO.	REVISION	BY	APP'D	DATE	DESIGNED BY: KWC	DATE: OCTOBER, 2023
					DRAWN BY: KCY	DATE: OCTOBER, 2023
					CHECKED BY: SJZ	DATE: OCTOBER, 2023
					DRAWING NO.:	DATE:
RECOMMENDED FOR APPROVAL						
					Chief, Design Section	Date
APPROVED						
					Chief, Division of Transportation Engineering	Date

DEPARTMENT OF TRANSPORTATION
DIVISION OF TRANSPORTATION ENGINEERING
MONTGOMERY COUNTY, MARYLAND

AMHERST AVE CYCLE TRACK
EROSION & SEDIMENT CONTROL PLAN

SCALE: 1"=20' SHEET 75 of 208



INLET PROTECTION				
QTY	STATION, OFFSET	DRAINAGE AREA	INLET NUMBER	REMARKS
1 EA	STA. 203+71.98, OFF. 26.89' (LT)	0.56 AC	EX-I-6	STANDARD INLET PRTN. TYPE B

ES-10

NO.	REVISION	BY	APP'D	DATE

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DRAWN BY: KCY	DATE: OCTOBER, 2023
CHECKED BY: SJZ	DATE: OCTOBER, 2023
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RECOMMENDED FOR APPROVAL	
Chief, Design Section _____	Date _____
APPROVED	
Chief, Division of Transportation Engineering _____	Date _____

DEPARTMENT OF TRANSPORTATION
DIVISION OF TRANSPORTATION ENGINEERING
MONTGOMERY COUNTY, MARYLAND

AMHERST AVE CYCLE TRACK
EROSION & SEDIMENT CONTROL PLAN

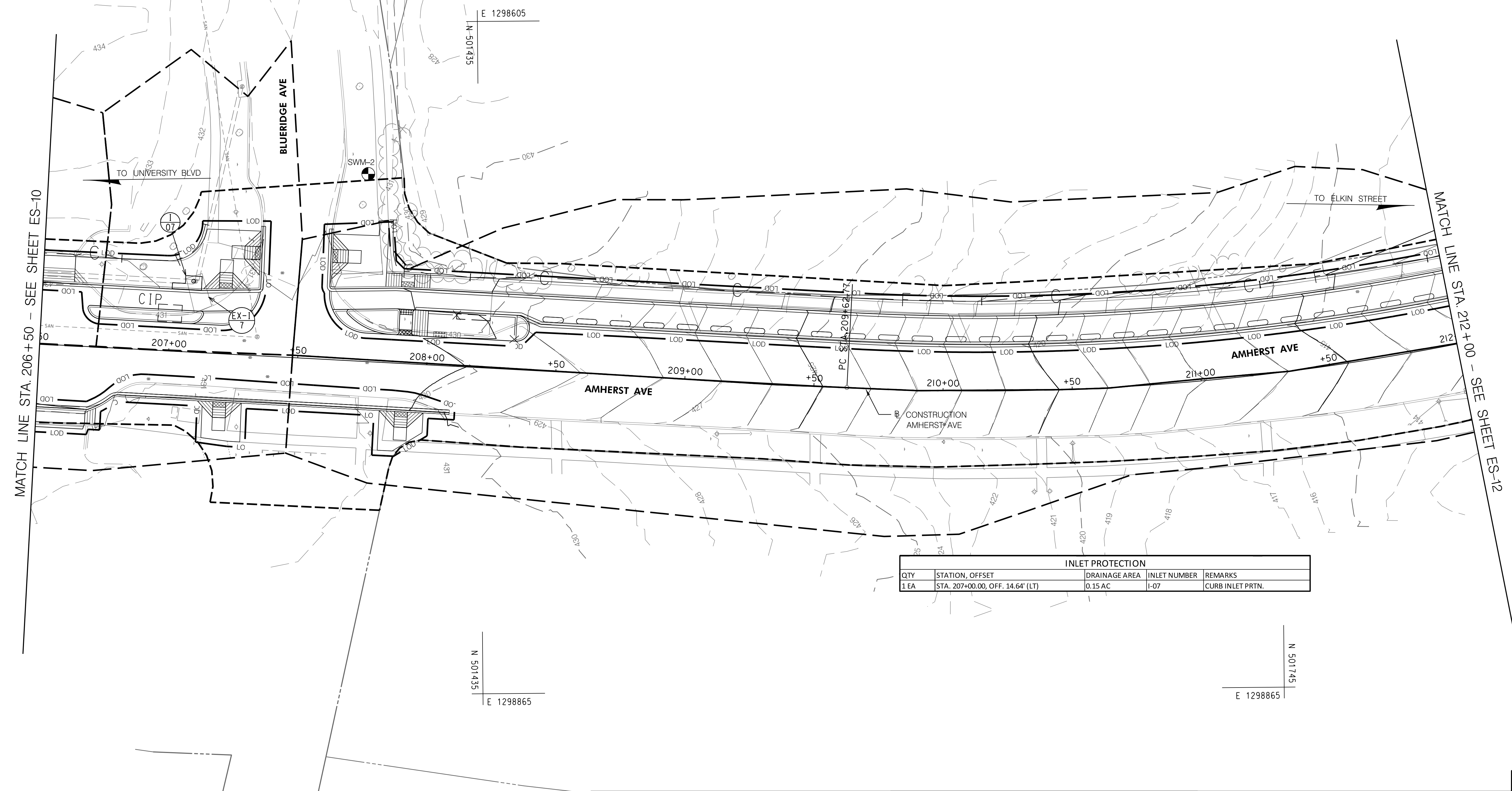
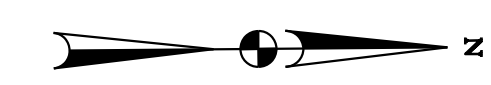
SCALE: 1"=20' SHEET 76 of 208




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INLET PROTECTION				
QTY	STATION, OFFSET	DRAINAGE AREA	INLET NUMBER	REMARKS
1 EA	STA. 207+00.00, OFF. 14.64' (LT)	0.15 AC	I-07	CURB INLET PRTN.

ES-II

NO.	REVISION	BY	APP'D	DATE

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DRAWN BY: KCY	DATE: OCTOBER, 2023
CHECKED BY: SJZ	DATE: OCTOBER, 2023
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RECOMMENDED FOR APPROVAL	
Chief, Design Section	Date
APPROVED	
Chief, Division of Transportation Engineering	Date

DEPARTMENT OF TRANSPORTATION
DIVISION OF TRANSPORTATION ENGINEERING
MONTGOMERY COUNTY, MARYLAND

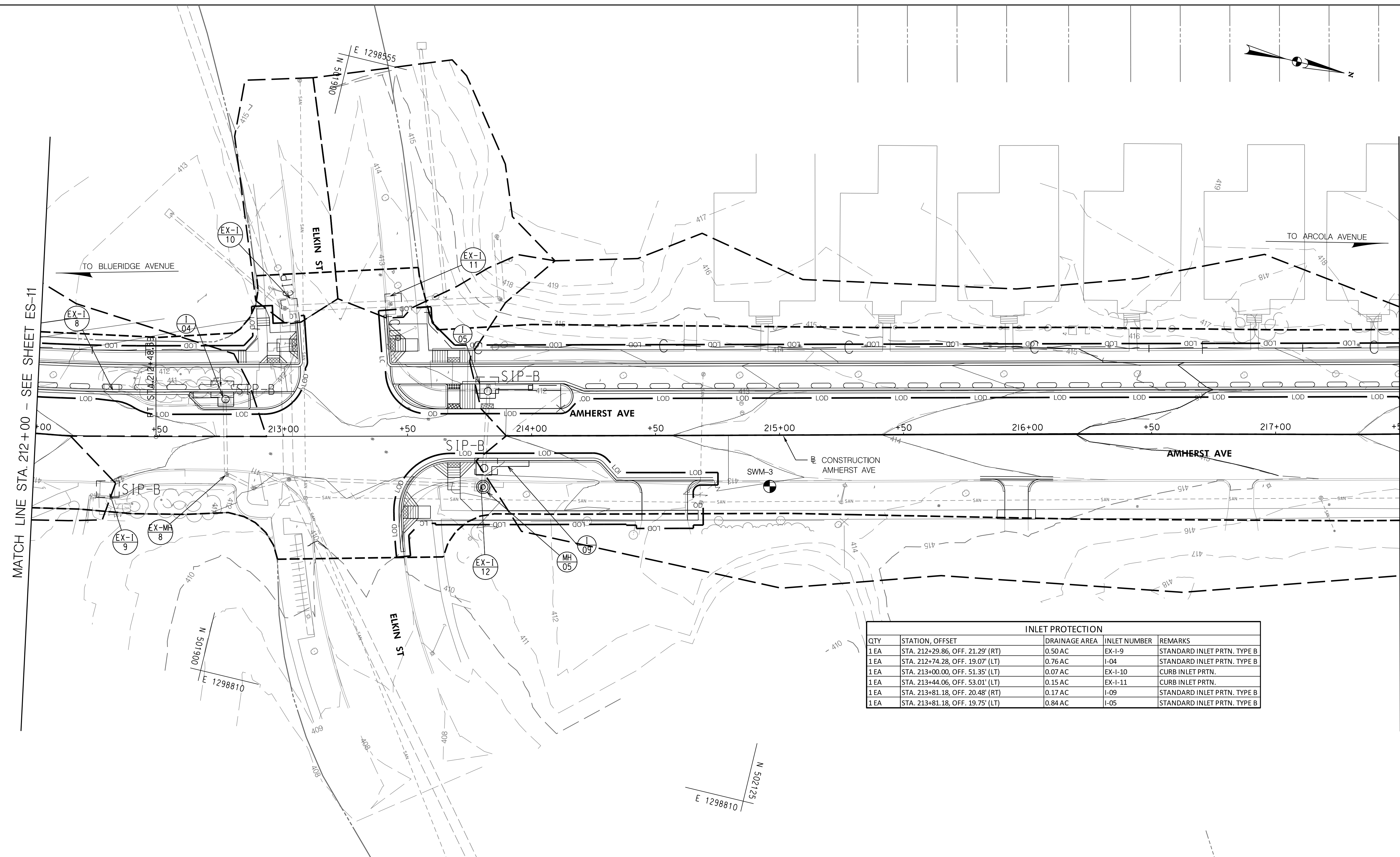
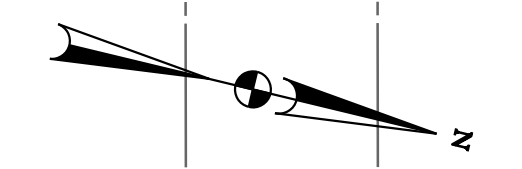
AMHERST AVE CYCLE TRACK
EROSION & SEDIMENT CONTROL PLAN

SCALE: 1"=20' SHEET 77 of 208

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MATCH LINE STA. 212+00 - SEE SHEET ES-11

MATCH LINE STA. 217+50 - SEE SHEET ES-13

INLET PROTECTION				
QTY	STATION, OFFSET	DRAINAGE AREA	INLET NUMBER	REMARKS
1 EA	STA. 212+29.86, OFF. 21.29' (RT)	0.50 AC	EX-I-9	STANDARD INLET PRTN. TYPE B
1 EA	STA. 212+74.28, OFF. 19.07' (LT)	0.76 AC	I-04	STANDARD INLET PRTN. TYPE B
1 EA	STA. 213+00.00, OFF. 51.35' (LT)	0.07 AC	EX-I-10	CURB INLET PRTN.
1 EA	STA. 213+44.06, OFF. 53.01' (LT)	0.15 AC	EX-I-11	CURB INLET PRTN.
1 EA	STA. 213+81.18, OFF. 20.48' (RT)	0.17 AC	I-09	STANDARD INLET PRTN. TYPE B
1 EA	STA. 213+81.18, OFF. 19.75' (LT)	0.84 AC	I-05	STANDARD INLET PRTN. TYPE B

ES-12

NO.	REVISION	BY	APP'D	DATE

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Chief, Design Section _____	Date _____
APPROVED	
Chief, Division of Transportation Engineering _____	Date _____

DEPARTMENT OF TRANSPORTATION
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MONTGOMERY COUNTY, MARYLAND

AMHERST AVE CYCLE TRACK
EROSION & SEDIMENT CONTROL PLAN

SCALE: 1"=20'

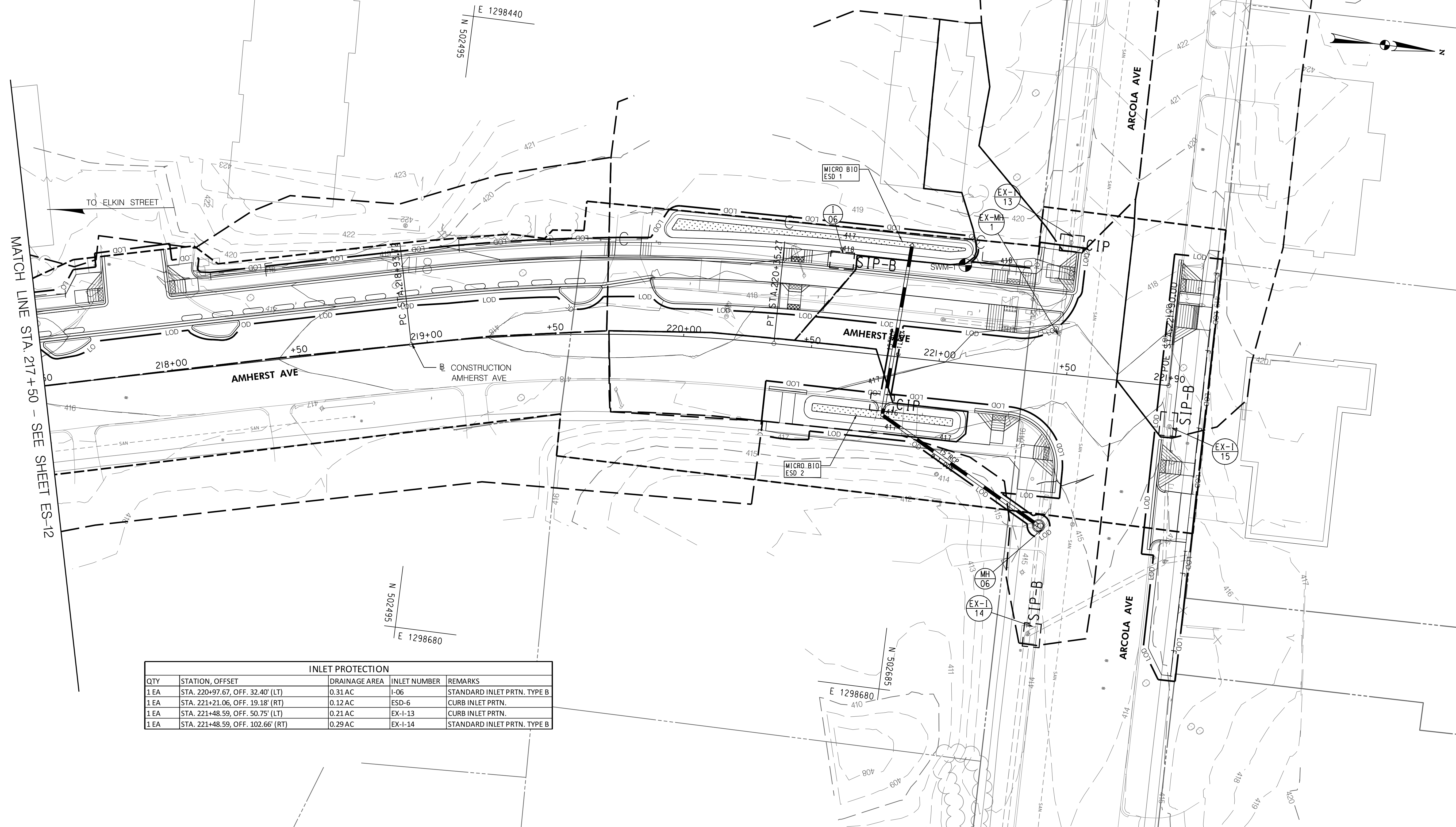
SHEET 78 of 208



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INLET PROTECTION				
QTY	STATION, OFFSET	DRAINAGE AREA	INLET NUMBER	REMARKS
1 EA	STA. 220+97.67, OFF. 32.40' (LT)	0.31 AC	I-06	STANDARD INLET PRTN. TYPE B
1 EA	STA. 221+21.06, OFF. 19.18' (RT)	0.12 AC	ESD-6	CURB INLET PRTN.
1 EA	STA. 221+48.59, OFF. 50.75' (LT)	0.21 AC	EX-1-13	CURB INLET PRTN.
1 EA	STA. 221+48.59, OFF. 102.66' (RT)	0.29 AC	EX-1-14	STANDARD INLET PRTN. TYPE B

ES-13

NO.	REVISION	BY	APP'D	DATE

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Chief, Design Section	Date
APPROVED	
Chief, Division of Transportation Engineering	Date

DEPARTMENT OF TRANSPORTATION
DIVISION OF TRANSPORTATION ENGINEERING
MONTGOMERY COUNTY, MARYLAND

AMHERST AVE CYCLE TRACK
EROSION & SEDIMENT CONTROL PLAN

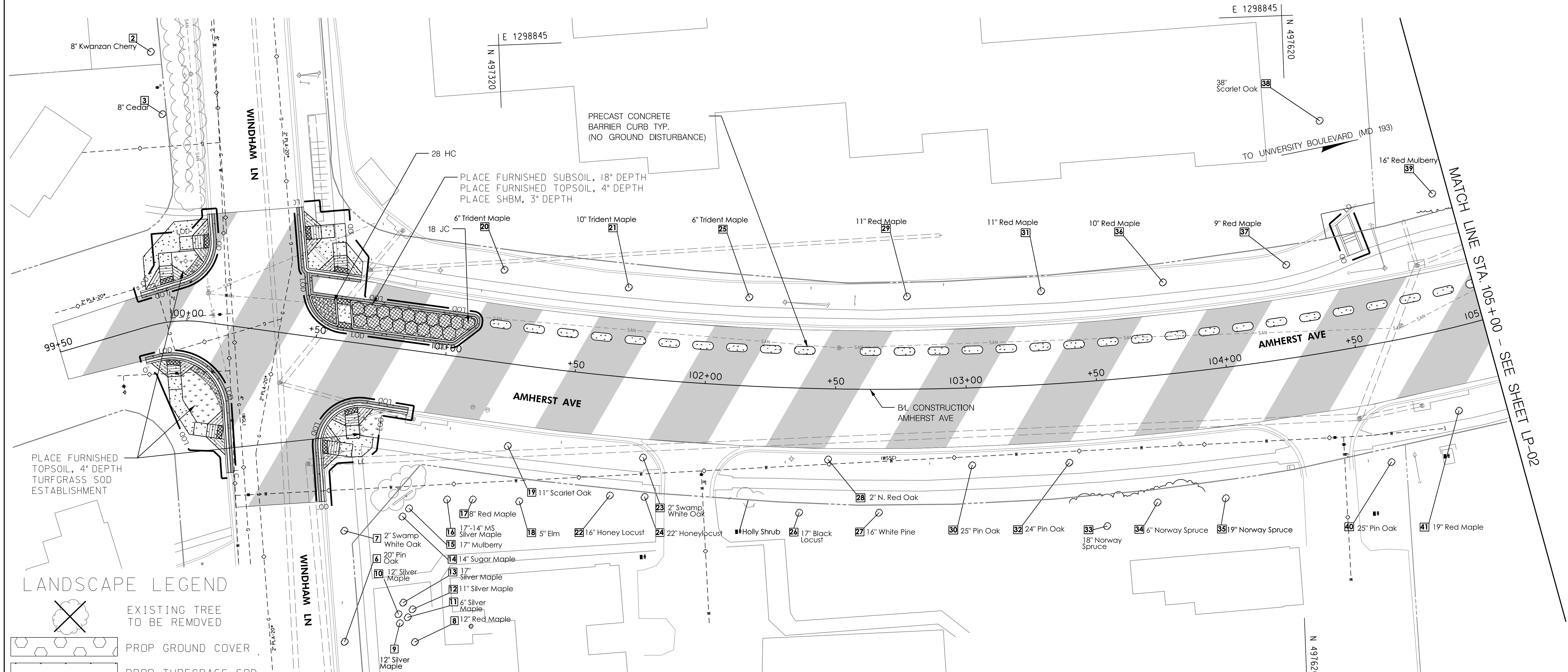
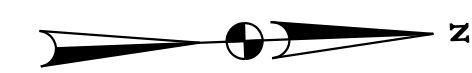
SCALE: 1"=20' SHEET 79 of 208



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PLACE FURNISHED TOPSOIL, 4" DEPTH
TURFGRASS SOD
ESTABLISHMENT

PLACE FURNISHED SUBSOIL, 18" DEPTH
PLACE FURNISHED TOPSOIL, 4" DEPTH
PLACE SHBM, 3" DEPTH

PRECAST CONCRETE
BARRIER CURB TYP.
(NO GROUND DISTURBANCE)

LANDSCAPE LEGEND

- EXISTING TREE TO BE REMOVED
- PROP GROUND COVER
- PROP TURFGRASS SOD
- TREE ROOT PRUNING
- 4-FOOT FARM TYPE FENCE FOR TREE PROTECTION (TPF)
- PROPOSED TREE
- PROPOSED SHRUB
- SHREDDED HARDWOOD BARK MULCH

LANDSCAPE 700 ITEMS - THIS SHEET ONLY

QTY	UNIT	STATION, OFFSET	CAT. CODE	ITEM	SHA SPECS
101	SY	STA. 117+88 TO 124+06	704345	FURNISHED TOPSOIL 4 INCH DEPTH	701
55	SY	STA. 122+93 TO 124+06	701214	FURNISHED SUBSOIL 18 INCH DEPTH	701
46	SY	STA. 117+88 TO 118+00	705565	REFERTILIZING	705
46	SY	STA. 117+88 TO 118+00	708220	TURFGRASS SOD ESTABLISHMENT	708
55	SY	STA. 122+93 TO 124+06	715015	SHBM 3 IN DEPTH	710

TREE, SHRUB, AND PERENNIAL INSTALLATION AND ESTABLISHMENT - LP-01

SYM	QUANTITY	BOTANICAL NAME	COMMON NAME	SIZE	BALL SPACING	REMARKS
JC	18	<i>Juniperus conferta</i>	Blue Pacific Shore Juniper	6" - 8" IN. HT.	5' O.C.	#3
HC	28	<i>Hypericum calycinum</i>	Creeping St. John's Wort	1 GAL.	18" O.C.	#1

NO.	REVISION	BY	APP'D	DATE

DESIGNED BY: KRD	DATE: OCTOBER, 2023
DRAWN BY: KRD	DATE: OCTOBER, 2023
CHECKED BY: SJZ	DATE: OCTOBER, 2023
DRAWING NO.:	DATE:

RECOMMENDED FOR APPROVAL

Chief, Design Section _____ Date _____

APPROVED

Chief, Division of Transportation Engineering _____ Date _____

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

**AMHERST AVE CYCLE TRACK
LANDSCAPE & TREE PROTECTION PLAN**

10/9/2023 U:\2026213141\700 CADD\700 Sheet\lp-01_AmherstAve.dgn

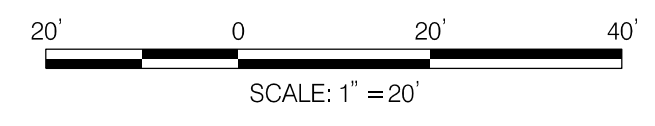
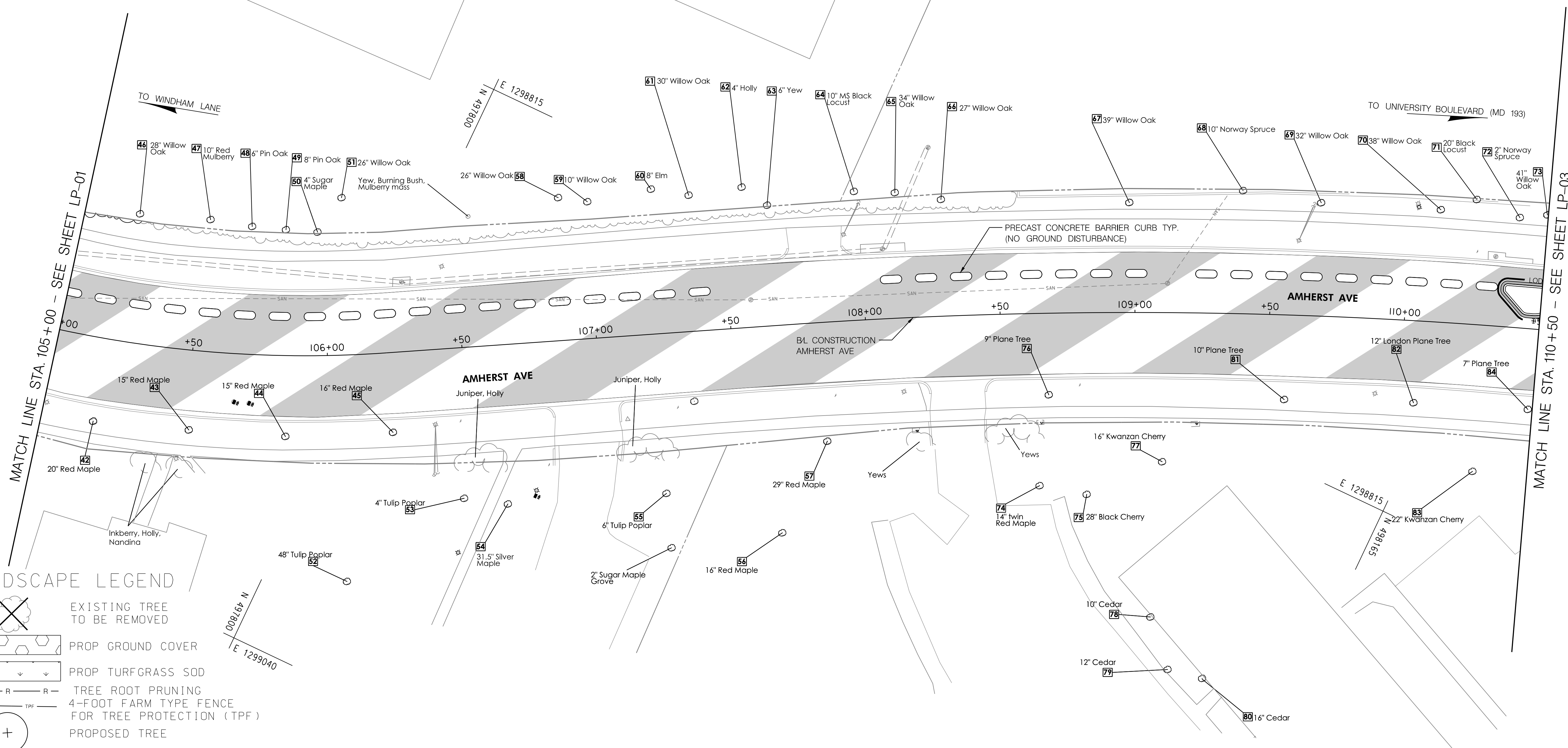
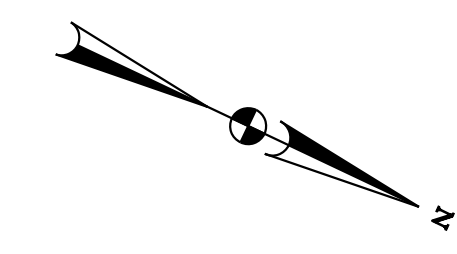


PROFESSIONAL CERTIFICATION:
I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A REGISTERED LANDSCAPE ARCHITECT UNDER THE LAWS OF THE STATE OF MARYLAND.
LICENSE NO: 3190 EXPIRATION DATE: 05/07/23



LP-01

NOTE: NO LANDSCAPE ITEMS THIS SHEET



NO.	REVISION	BY	APP'D	DATE

DESIGNED BY: KR D	DATE: OCTOBER, 2023
DRAWN BY: KR D	DATE: OCTOBER, 2023
CHECKED BY: SJ Z	DATE: OCTOBER, 2023
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APPROVED	
Chief, Division of Transportation Engineering	Date

DEPARTMENT OF TRANSPORTATION
DIVISION OF TRANSPORTATION ENGINEERING
MONTGOMERY COUNTY, MARYLAND

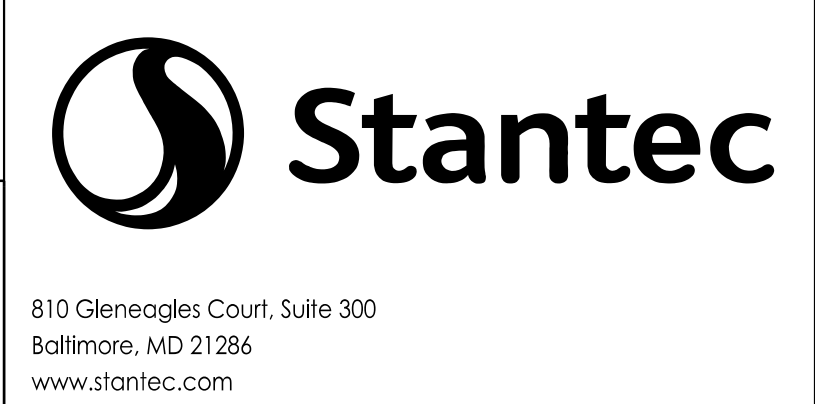
AMHERST AVE CYCLE TRACK
 LANDSCAPE & TREE PROTECTION PLAN

SCALE: 1"=20' SHEET 81 of 208

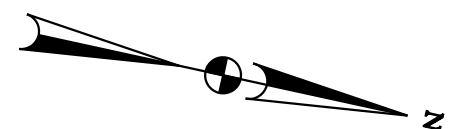
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 LICENSE NO: 3190 EXPIRATION DATE: 05/07/23

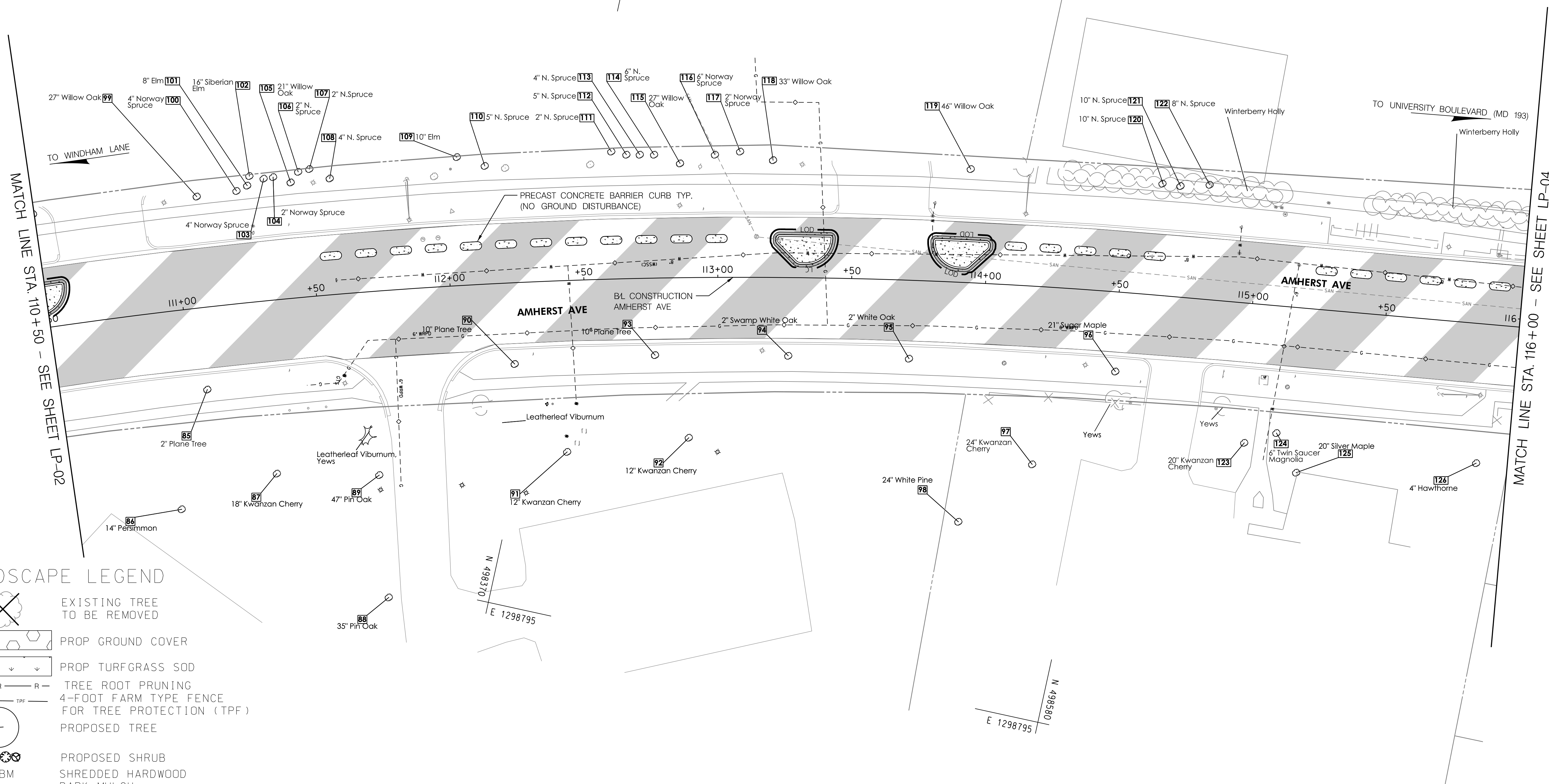


LP-02



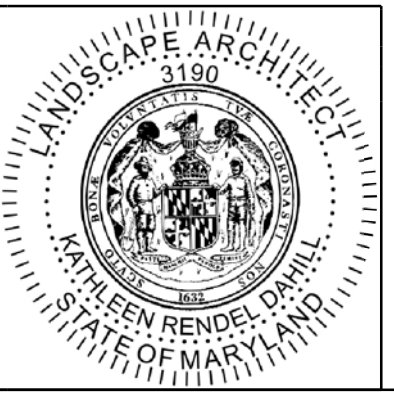
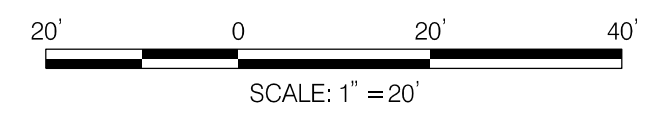
NOTE: NO LANDSCAPE ITEMS THIS SHEET

E 1298545
N 498370



LANDSCAPE LEGEND

- EXISTING TREE TO BE REMOVED
- PROP GROUND COVER
- PROP TURFGRASS SOD
- TREE ROOT PRUNING
- 4-FOOT FARM TYPE FENCE FOR TREE PROTECTION (TPF)
- PROPOSED TREE
- PROPOSED SHRUB
- SHBM
- SHREDDED HARDWOOD BARK MULCH



PROFESSIONAL CERTIFICATION:
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Chief, Design Section	Date
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Chief, Division of Transportation Engineering	Date

DEPARTMENT OF TRANSPORTATION
DIVISION OF TRANSPORTATION ENGINEERING
MONTGOMERY COUNTY, MARYLAND

AMHERST AVE CYCLE TRACK
LANDSCAPE & TREE PROTECTION PLAN

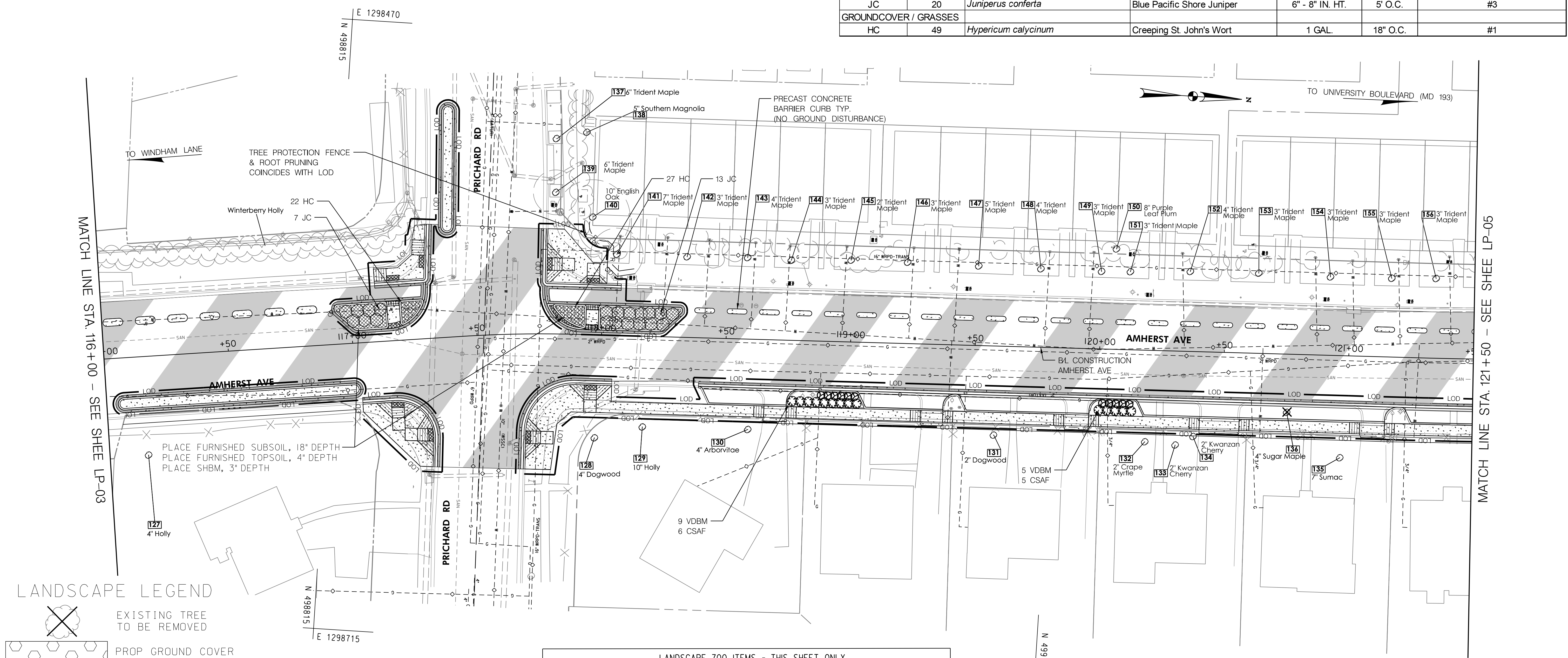
SCALE: 1"=20' SHEET 82 of 208

10/9/2023 U:\2026\213141\700 CADD\700 Sheet\p\LP-003_AmherstAve.dgn

LP-03

TREE REMOVAL - THIS SHEET					
NO.	COMMON NAME	SCIENTIFIC NAME	DBH (IN)	CRZ (FT)	CONDITION
T-136	SUGAR MAPLE	ACER SACCHARUM	4	4	GOOD

TREE, SHRUB, AND PERENNIAL INSTALLATION AND ESTABLISHMENT - LP-04						
SYM	QUANTITY	BOTANICAL NAME	COMMON NAME	SIZE	BALL	REMARKS
SHRUBS				SIZE	SPACING	CONTAINER
VDBM	14	<i>Viburnum dentatum</i> 'Blue Muffin'	Blue Muffin Viburnum	24" - 30" IN. HT.	4' O.C.	#3
CSAF	11	<i>Cornus stolonifera</i> 'Arctic Fire'	Arctic Fire Dogwood	24 IN. HT.	3' O.C.	#3
JC	20	<i>Juniperus conferta</i>	Blue Pacific Shore Juniper	6" - 8" IN. HT.	5' O.C.	#3
GROUND COVER / GRASSES						
HC	49	<i>Hypericum calycinum</i>	Creeping St. John's Wort	1 GAL.	18" O.C.	#1



LANDSCAPE LEGEND

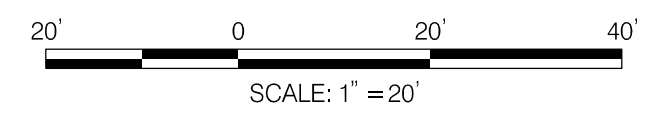
- EXISTING TREE TO BE REMOVED
- PROP GROUND COVER
- PROP TURFGRASS SOD
- TREE ROOT PRUNING
- 4-FOOT FARM TYPE FENCE
- FOR TREE PROTECTION (TPF)
- PROPOSED TREE
- PROPOSED SHRUB
- SHREDDED HARDWOOD BARK MULCH

LANDSCAPE 700 ITEMS - THIS SHEET ONLY					
QTY	UNIT	STATION, OFFSET	CAT. CODE	ITEM	SHA SPECS
40	LF	STA. 117+75 TO 118+00	693104	4 FOOT FARM TYPE FENCE	120
73	SY	STA. 116+94 TO 118+32	704345	FURNISHED TOPSOIL 4 INCH DEPTH	701
39	SY	STA. 116+94 TO 118+32	701214	FURNISHED SUBSOIL 18 INCH DEPTH	701
73	SY	STA. 116+94 TO 118+32	715015	SHBM, 3 IN DEPTH	710
40	LF	STA. 117+75 TO 118+00	715050	ROOT PRUNE	710

- ### LANDSCAPE NOTES:
- REFER TO EROSION AND SEDIMENT CONTROL /SWM PLAN FOR TREE PROTECTION FENCE (TPF).
 - LOCATION OF TREE PROTECTION FENCE AND ROOT PRUNING ARE SHOWN ON THE PLAN AS AN OFFSET FROM THE LIMIT OF DISTURBANCE (LOD) FOR GRAPHIC PURPOSES ONLY, FENCE AND ROOT PRUNING OPERATIONS SHALL BE LOCATED AT LOD LINE.



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Chief, Division of Transportation Engineering	Date

DEPARTMENT OF TRANSPORTATION
 DIVISION OF TRANSPORTATION ENGINEERING
 MONTGOMERY COUNTY, MARYLAND

AMHERST AVE CYCLE TRACK
 LANDSCAPE & TREE PROTECTION PLAN

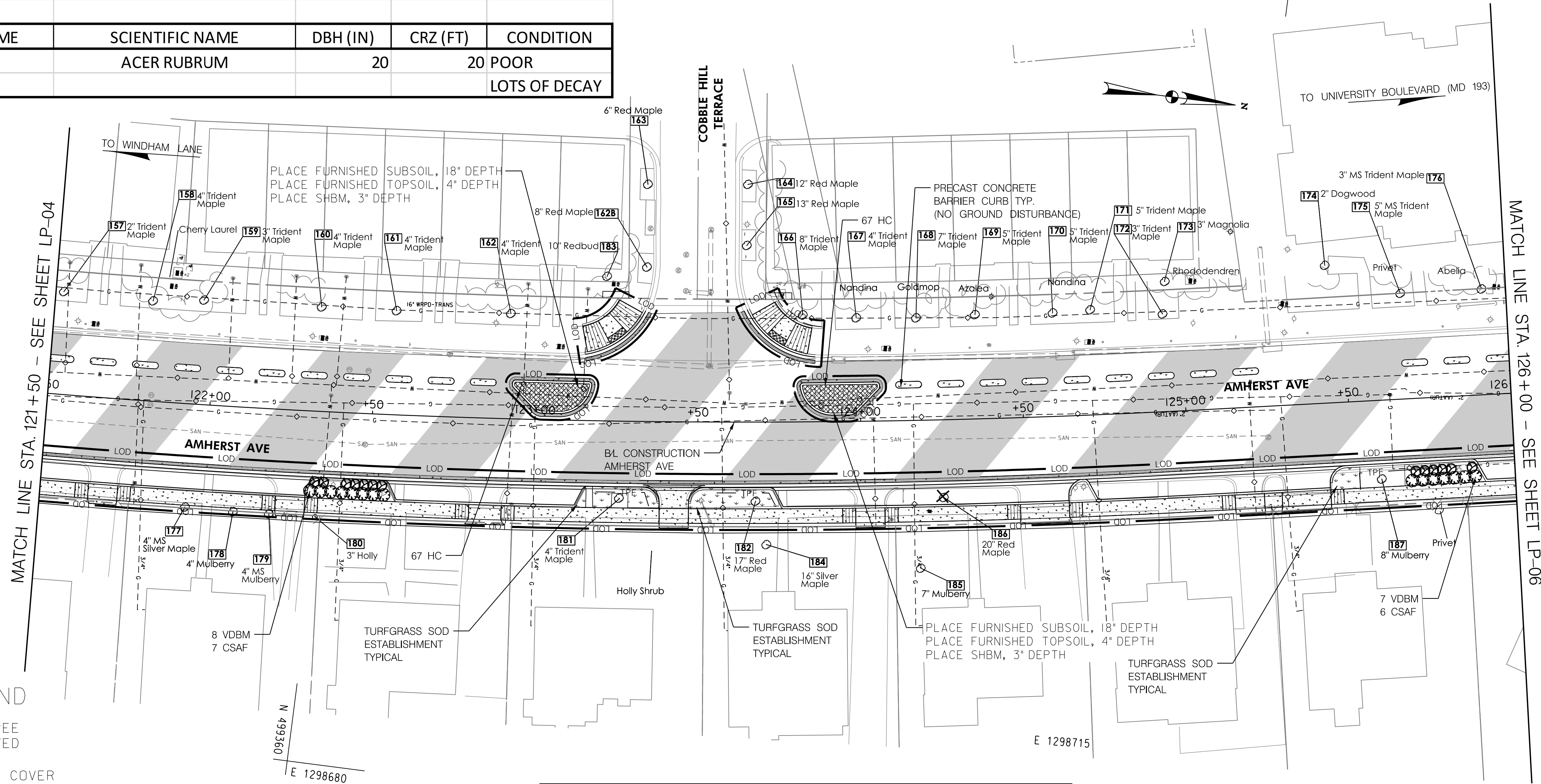
SCALE: 1"=20' SHEET 83 of 208

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LP-04

TREE, SHRUB, AND PERENNIAL INSTALLATION AND ESTABLISHMENT - LP-05						
SYM	QUANTITY	BOTANICAL NAME	COMMON NAME	SIZE	BALL	REMARKS
SHRUBS				SIZE	SPACING	CONTAINER
VDBM	15	<i>Viburnum dentatum</i> 'Blue Muffin'	Blue Muffin Viburnum	24" - 30" IN. HT.	4' O.C.	#3
CSAF	13	<i>Cornus stolonifera</i> 'Arctic Fire'	Arctic Fire' Dogwood	24 IN. HT.	3' O.C.	#3
GROUND COVER / GRASSES						
HC	134	<i>Hypericum calycinum</i>	Creeping St. John's Wort	1 GAL.	18" O.C.	#1

TREE REMOVAL - THIS SHEET					
NO.	COMMON NAME	SCIENTIFIC NAME	DBH (IN)	CRZ (FT)	CONDITION
T-186	RED MAPLE	ACER RUBRUM	20	20	POOR LOTS OF DECAY



LANDSCAPE LEGEND

- EXISTING TREE TO BE REMOVED
- PROP GROUND COVER
- PROP TURFGRASS SOD
- TREE ROOT PRUNING
- 4-FOOT FARM TYPE FENCE FOR TREE PROTECTION (TPF)
- PROPOSED TREE
- PROPOSED SHRUB
- SHREDDED HARDWOOD BARK MULCH

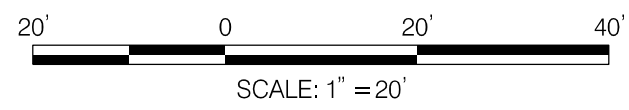
LANDSCAPE 700 ITEMS - THIS SHEET ONLY					
QTY	UNIT	STATION, OFFSET	CAT. CODE	ITEM	SHA SPECS
90	LF	STA. 117+75 TO 118+00	693104	4 FOOT FARM TYPE FENCE	120
106	SY	STA. 117+88 TO 124+06	704345	FURNISHED TOPSOIL 4 INCH DEPTH	701
34	SY	STA. 122+93 TO 124+06	701214	FURNISHED SUBSOIL 18 INCH DEPTH	701
37	SY	STA. 117+88 TO 118+00	705565	REFERTILIZING	705
37	SY	STA. 117+88 TO 118+00	708220	TURFGRASS SOD ESTABLISHMENT	708
69	SY	STA. 122+93 TO 124+06	715015	SHBM 3 IN DEPTH	710



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DEPARTMENT OF TRANSPORTATION
DIVISION OF TRANSPORTATION ENGINEERING
MONTGOMERY COUNTY, MARYLAND

AMHERST AVE CYCLE TRACK
LANDSCAPE & TREE PROTECTION PLAN

SCALE: 1"=20'

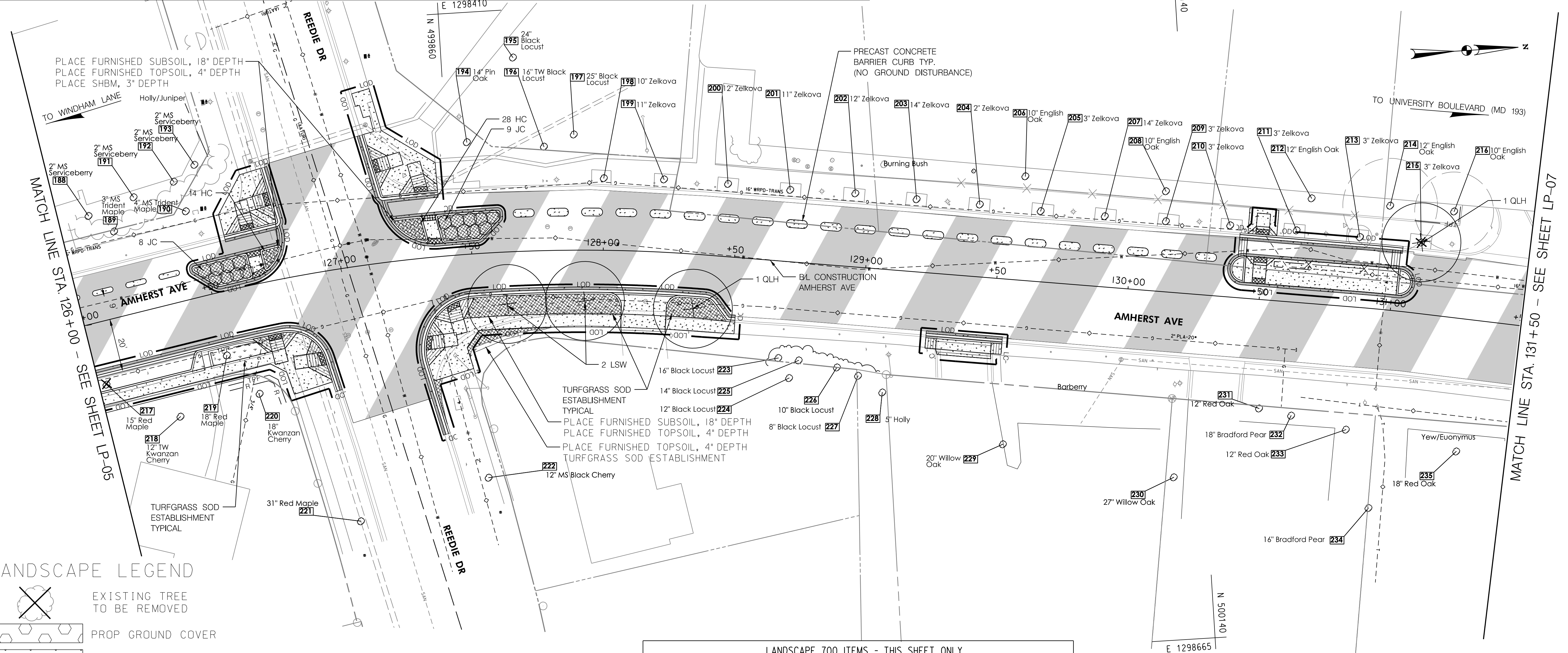
SHEET 84 of 208

10/9/2023 U:\2026213141\700 CADD\700 Sheet\lp-005_AmherstAve.dgn

LP-05

TREE, SHRUB, AND PERENNIAL INSTALLATION AND ESTABLISHMENT - LP-06						
SYM	QUANTITY	BOTANICAL NAME	COMMON NAME	SIZE	BALL	REMARKS
LSW	2	<i>Liquidambar styraciflua 'Ward'</i>	Ward Sweetgum	2.5 IN. CAL.	B&B	SINGLE LEADER / SEEDLESS
QLH	2	<i>Quercus lyrata 'Highbeam'</i>	Highbeam Overcup Oak	2.5 IN. CAL.	B&B	CENTRAL LEADER
SHRUBS				SIZE	SPACING	CONTAINER
JC	17	<i>Juniperus conferta</i>	Blue Pacific Shore Juniper	6" - 8" IN. HT.	5' O.C.	#3
GROUND COVER / GRASSES						
HC	42	<i>Hypericum calycinum</i>	Creeping St. John's Wort	1 GAL.	18" O.C.	#1

TREE REMOVAL - THIS SHEET					
NO.	COMMON NAME	SCIENTIFIC NAME	DBH (IN)	CRZ (FT)	CONDITION
T-217	RED MAPLE	ACER RUBRUM	15	15	POOR
				TOPPED	LOTS OF DECAY
T-215	ZELKOVA	ZELKOVA	3	3	GOOD

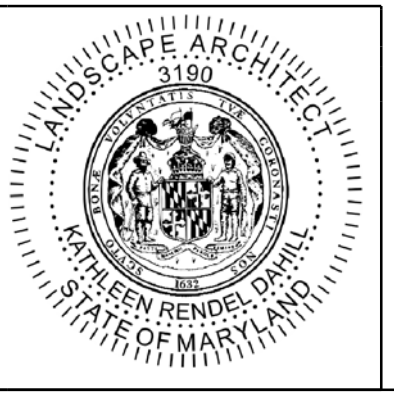


LANDSCAPE LEGEND

- EXISTING TREE TO BE REMOVED
- PROP GROUND COVER
- PROP TURFGRASS SOD
- TREE ROOT PRUNING
- 4-FOOT FARM TYPE FENCE FOR TREE PROTECTION (TPF)
- PROPOSED TREE
- PROPOSED SHRUB
- SHREDDED HARDWOOD BARK MULCH

LANDSCAPE 700 ITEMS - THIS SHEET ONLY						
QTY	UNIT	STATION, OFFSET	CAT. CODE	ITEM	SHA SPECS	
90	LF	STA. 117+75 TO 118+00	693104	4 FOOT FARM TYPE FENCE	120	
144	SY	STA. 117+88 TO 118+00	704345	FURNISHED TOPSOIL 4 INCH DEPTH	701	
115	SY	STA. 126+45 TO 127+62	701214	FURNISHED SUBSOIL 18 INCH DEPTH	701	
93	SY	STA. 117+88 TO 118+00	705565	REFERTILIZING	705	
93	SY	STA. 117+88 TO 118+00	708220	TURFGRASS SOD ESTABLISHMENT	708	
52	SY	STA. 117+88 TO 118+00	715015	SHBM 3 IN DEPTH	710	
30	LF	STA. 117+75 TO 118+00	715050	ROOT PRUNING	710	

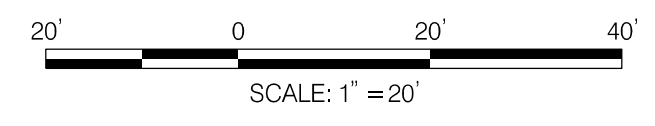
- LANDSCAPE NOTES:
- REFER TO EROSION AND SEDIMENT CONTROL /SWP PLAN FOR TREE PROTECTION FENCE (TPF).
 - LOCATION OF TREE PROTECTION FENCE AND ROOT PRUNING ARE SHOWN ON THE PLAN AS AN OFFSET FROM THE LIMIT OF DISTURBANCE (LOD) FOR GRAPHIC PURPOSES ONLY, FENCE AND ROOT PRUNING OPERATIONS SHALL BE LOCATED AT LOD LINE.



PROFESSIONAL CERTIFICATION:
 I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A REGISTERED LANDSCAPE ARCHITECT UNDER THE LAWS OF THE STATE OF MARYLAND.
 LICENSE NO: 3190 EXPIRATION DATE: 05/07/23



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



NO.	REVISION	BY	APP'D	DATE	DESIGNED BY: KRD	DATE: OCTOBER, 2023
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					Chief, Design Section	Date
					APPROVED	
					Chief, Division of Transportation Engineering	Date

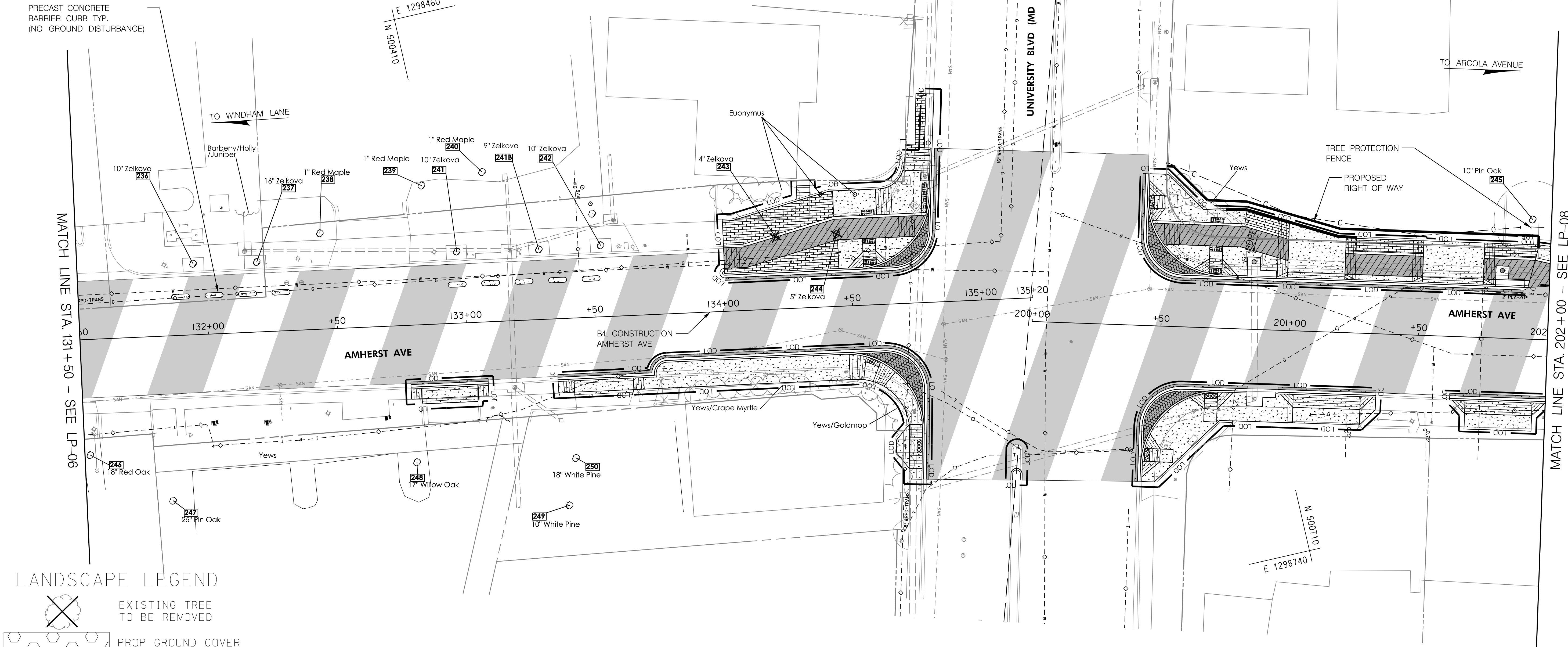
DEPARTMENT OF TRANSPORTATION
 DIVISION OF TRANSPORTATION ENGINEERING
 MONTGOMERY COUNTY, MARYLAND

AMHERST AVE CYCLE TRACK
 LANDSCAPE & TREE PROTECTION PLAN

10/9/2023 U:\2026213141\700 CADD\700 Sheet\lp-06_AmherstAve.dgn

LP-06

TREE REMOVAL - THIS SHEET					
NO.	COMMON NAME	SCIENTIFIC NAME	DBH (IN)	CRZ (FT)	CONDITION
T-243	ZELKOVA	ZELKOVA	4	4	GOOD
T-244	ZELKOVA	ZELKOVA	5	5	FAIR - SUNSCALD

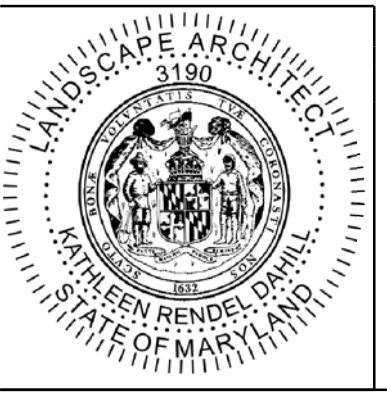


LANDSCAPE LEGEND

- EXISTING TREE TO BE REMOVED
- PROP GROUND COVER
- PROP TURFGRASS SOD
- TREE ROOT PRUNING
- 4-FOOT FARM TYPE FENCE FOR TREE PROTECTION (TPF)
- PROPOSED TREE
- PROPOSED SHRUB
- SHREDDED HARDWOOD BARK MULCH

LANDSCAPE 700 ITEMS - THIS SHEET ONLY					
QTY	UNIT	STATION, OFFSET	CAT. CODE	ITEM	SHA SPECS
20	LF	STA. 201+85 TO 202+00	693104	4 FOOT FARM TYPE FENCE	I20

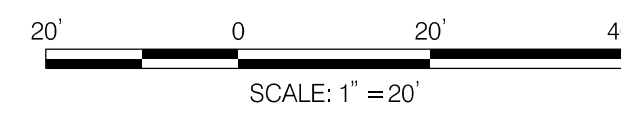
- LANDSCAPE NOTES:**
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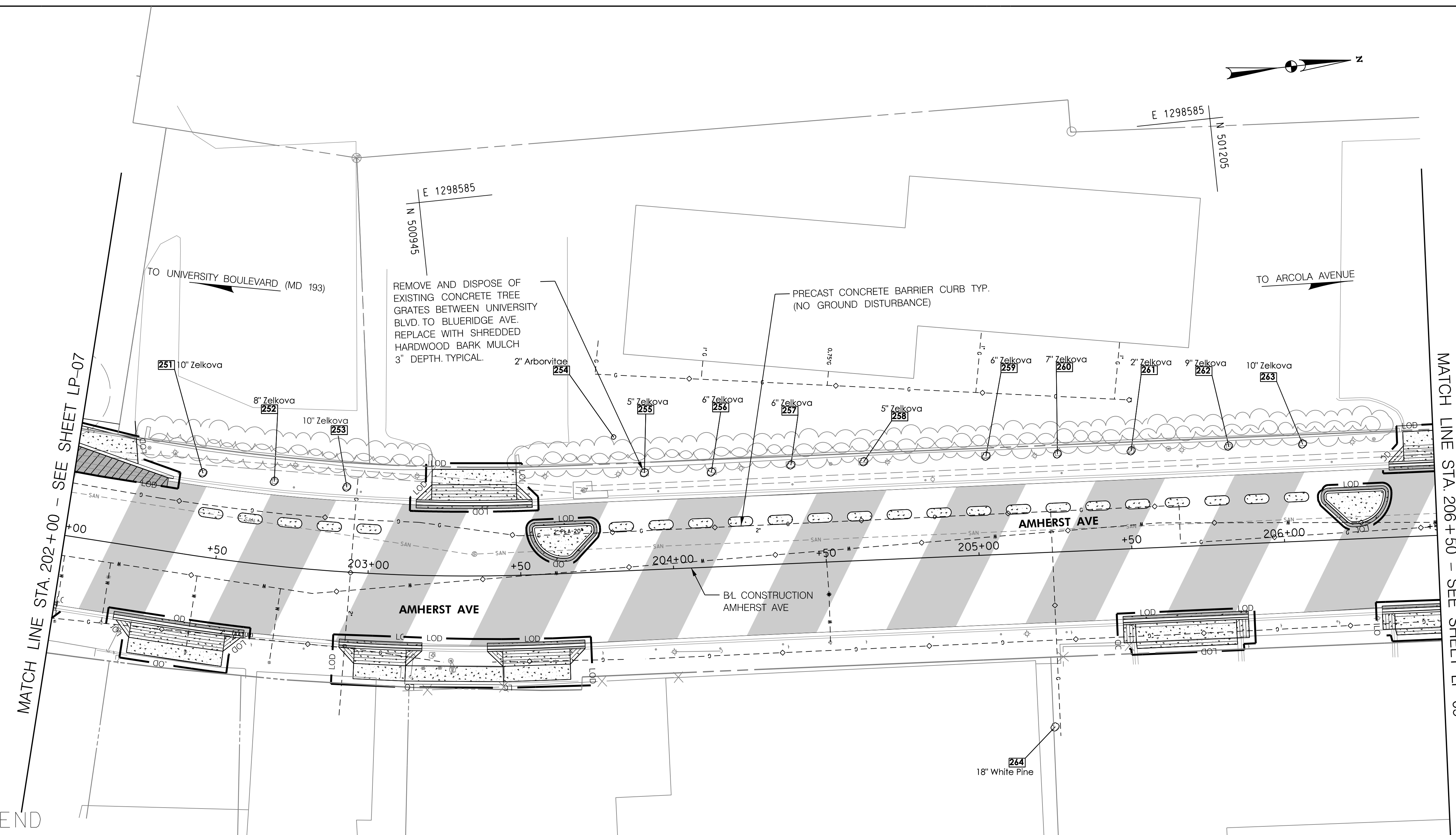
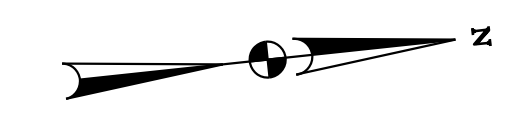
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Chief, Design Section	Date
APPROVED	
Chief, Division of Transportation Engineering	Date

DEPARTMENT OF TRANSPORTATION
DIVISION OF TRANSPORTATION ENGINEERING
MONTGOMERY COUNTY, MARYLAND

AMHERST AVE CYCLE TRACK
LANDSCAPE & TREE PROTECTION PLAN

10/9/2023 U:\2026\213141\700 CADD\700 Sheet\lp-007_AmherstAve.dgn

LP-07



MATCH LINE STA. 202+00 - SEE SHEET LP-07

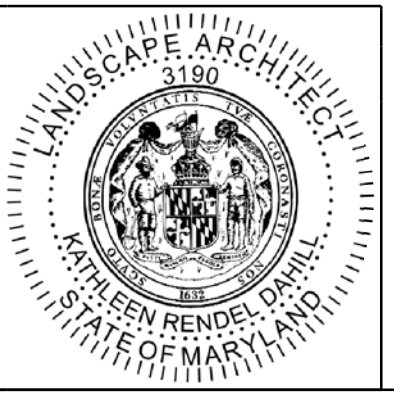
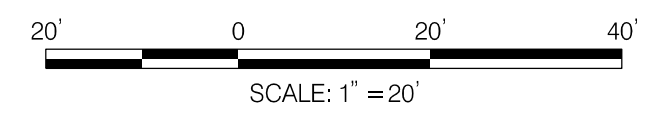
MATCH LINE STA. 206+50 - SEE SHEET LP-09

LANDSCAPE LEGEND

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- PROP TURFGRASS SOD
- TREE ROOT PRUNING
- 4-FOOT FARM TYPE FENCE FOR TREE PROTECTION (TPF)
- PROPOSED TREE
- PROPOSED SHRUB
- SHREDDED HARDWOOD BARK MULCH

LANDSCAPE 700 ITEMS - THIS SHEET ONLY

QTY	UNIT	STATION, OFFSET	CAT. CODE	ITEM	SHA SPECS
12	SY	STA. 202+00 TO 206+00	715015	SHBM, 3 IN DEPTH	710



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APPROVED	
Chief, Division of Transportation Engineering _____	Date _____

DEPARTMENT OF TRANSPORTATION
DIVISION OF TRANSPORTATION ENGINEERING
MONTGOMERY COUNTY, MARYLAND

AMHERST AVE CYCLE TRACK
LANDSCAPE & TREE PROTECTION PLAN

SCALE: 1"=20'

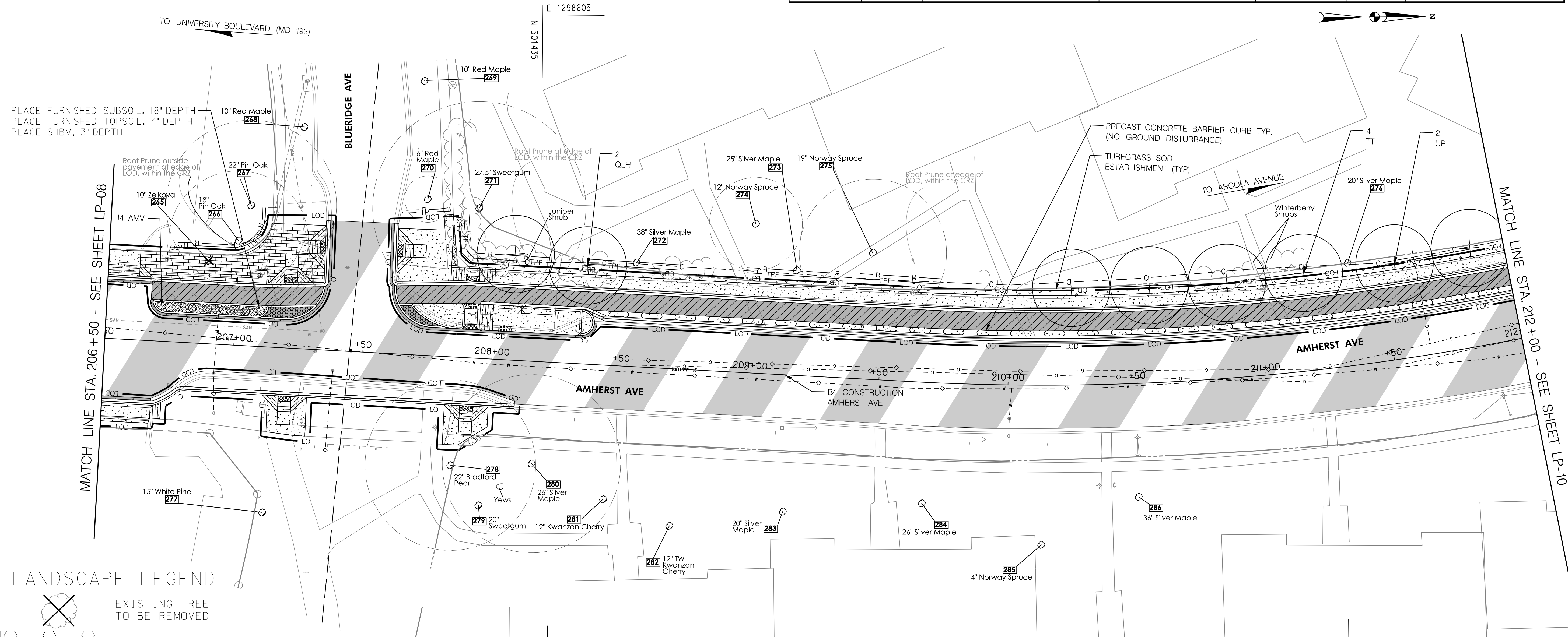
SHEET 87 of 208

LP-08

10/9/2023 U:\2026213141\700 CADD\700 Sheet\lp-008_AmherstAve.dgn

TREE REMOVAL - THIS SHEET					
NO.	COMMON NAME	SCIENTIFIC NAME	DBH (IN)	CRZ (FT)	CONDITION
T-265	ZELKOVA	ZELKOVA	10	4	GOOD

TREE, SHRUB, AND PERENNIAL INSTALLATION AND ESTABLISHMENT - LP-09						
SYM	QUANTITY	BOTANICAL NAME	COMMON NAME	SIZE	BALL	REMARKS
QLH	2	<i>Quercus lyrata</i> 'Highbeam'	Highbeam Overcup Oak	2.5 IN. CAL.	B&B	CENTRAL LEADER
TT	4	<i>Tilia tomentosa</i>	Silver Linden	2.5 IN. CAL.	B&B	CENTRAL LEADER
UP	2	<i>Ulmus parvifolia</i>	Lacebark Elm	2.5 IN. CAL.	B&B	CENTRAL LEADER
SHRUBS				SIZE	SPACING	CONTAINER
AMV	14	<i>Aronia melanocarpa</i> 'Viking'	Viking Black Chokeberry	24" - 30" IN. HT.	3' O.C.	#3



LANDSCAPE LEGEND

- EXISTING TREE TO BE REMOVED
- PROP GROUND COVER
- PROP TURFGRASS SOD
- TREE ROOT PRUNING
- 4-FOOT FARM TYPE FENCE FOR TREE PROTECTION (TPF)
- PROPOSED TREE
- PROPOSED SHRUB
- SHREDDED HARDWOOD BARK MULCH

LANDSCAPE 700 ITEMS - THIS SHEET ONLY					
QTY	UNIT	STATION, OFFSET	CAT. CODE	ITEM	SHA SPECS
214	LF	STA. 206+75 TO 209+75	693104	4 FOOT FARM TYPE FENCE	120
107	SY	STA. 207+80 TO 212+00	704345	FURNISHED TOPSOIL 4 INCH DEPTH	701
17	SY	STA. 206+69 TO 207+12	701214	FURNISHED SUBSOIL 18 INCH DEPTH	701
90	SY	STA. 207+80 TO 212+00	705565	REFERTILIZING	705
90	SY	STA. 207+80 TO 212+00	708220	TURFGRASS SOD ESTABLISHMENT	708
214	LF	STA. 206+75 TO 209+75	715050	TREE ROOT PRUNING	715
17	SY	STA. 206+69 TO 207+12	715015	SHBM, 3 IN DEPTH	710

- LANDSCAPE NOTES:**
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					APPROVED	
					Chief, Division of Transportation Engineering	Date

DEPARTMENT OF TRANSPORTATION
DIVISION OF TRANSPORTATION ENGINEERING
MONTGOMERY COUNTY, MARYLAND

AMHERST AVE CYCLE TRACK
LANDSCAPE & TREE PROTECTION PLAN



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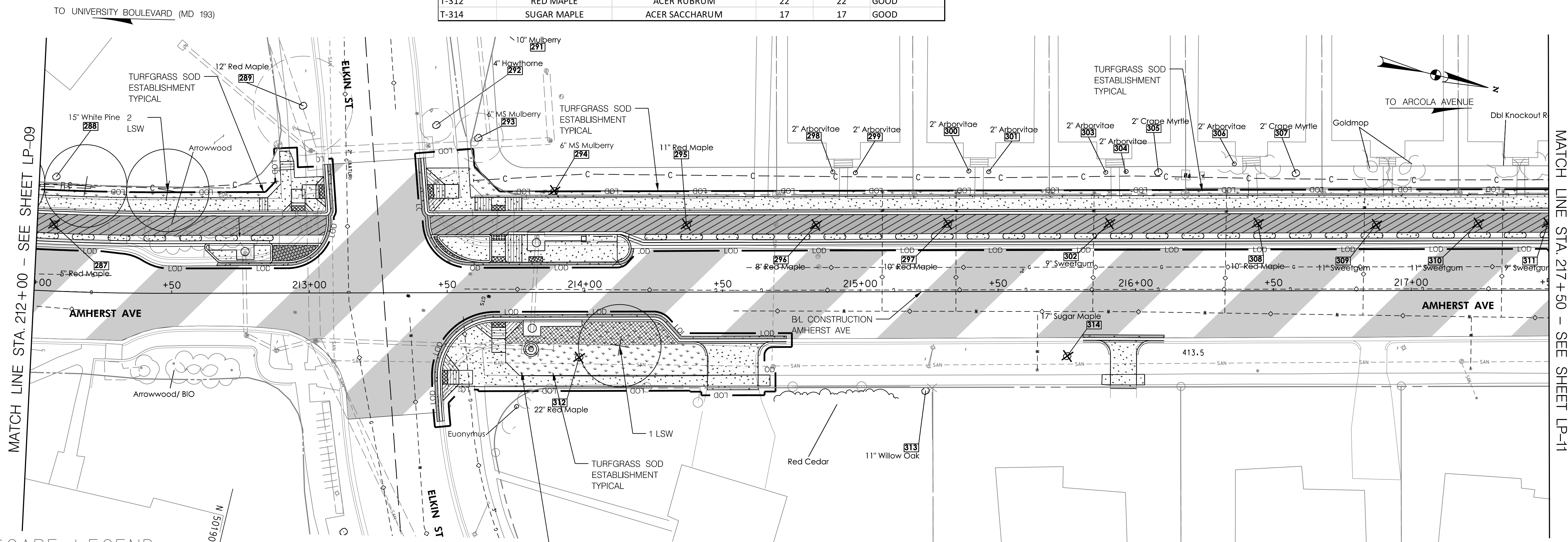
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Baltimore, MD 21286
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TREE REMOVAL - THIS SHEET					
NO.	COMMON NAME	SCIENTIFIC NAME	DBH (IN)	CRZ (FT)	CONDITION
T-287	RED MAPLE	ZELKOVA	5	4	GOOD
T-294	MS MULBERRY	MORUS RUBRA	6	37.5	GOOD
T-295	RED MAPLE	ACER RUBRUM	11	30	GOOD
T-296	RED MAPLE	ACER RUBRUM	8	8	GOOD
T-297	RED MAPLE	ACER RUBRUM	10	10	GOOD
T-302	SWEETGUM	LIQUIDAMBAR STYRICIFLUA	9	9	GOOD
T-308	RED MAPLE	ACER RUBRUM	10	10	GOOD
T-309	SWEETGUM	LIQUIDAMBAR STYRICIFLUA	11	11	GOOD
T-310	SWEETGUM	LIQUIDAMBAR STYRICIFLUA	11	11	GOOD
T-311	SWEETGUM	LIQUIDAMBAR STYRICIFLUA	9	9	GOOD
T-312	RED MAPLE	ACER RUBRUM	22	22	GOOD
T-314	SUGAR MAPLE	ACER SACCHARUM	17	17	GOOD

TREE, SHRUB, AND PERENNIAL INSTALLATION AND ESTABLISHMENT - LP-10						
SYM	QUANTITY	BOTANICAL NAME	COMMON NAME	SIZE	BALL	REMARKS
TREES						
LSW	3	Liquidambar styraciflua 'Ward'	Ward Sweetgum	2.5 IN. CAL.	B&B	SINGLE LEADER / SEEDLESS



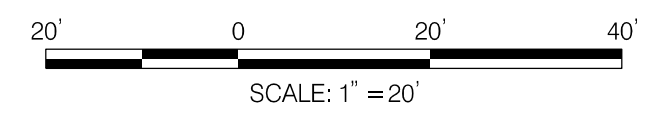
LANDSCAPE 700 ITEMS - THIS SHEET ONLY					
QTY	UNIT	STATION, OFFSET	CAT. CODE	ITEM	SHA SPECS
20	LF	STA. 212+00 TO 212+25	693104	4 FOOT FARM TYPE FENCE	120
144	SY	STA. 212+62 TO 213+66	701214	FURNISHED SUBSOIL 18 INCH DEPTH	705
253	SY	STA. 212+62 TO 213+66	704345	FURNISHED TOPSOIL 4 INCH DEPTH	708
253	SY	STA. 212+00 TO 217+50	705565	REFERTILIZING	715
253	SY	STA. 212+00 TO 217+50	708220	TURFGRASS SOD ESTABLISHMENT	701
20	LF	STA. 212+00 TO 212+25	715050	TREE ROOT PRUNING	701

- LANDSCAPE NOTES:**
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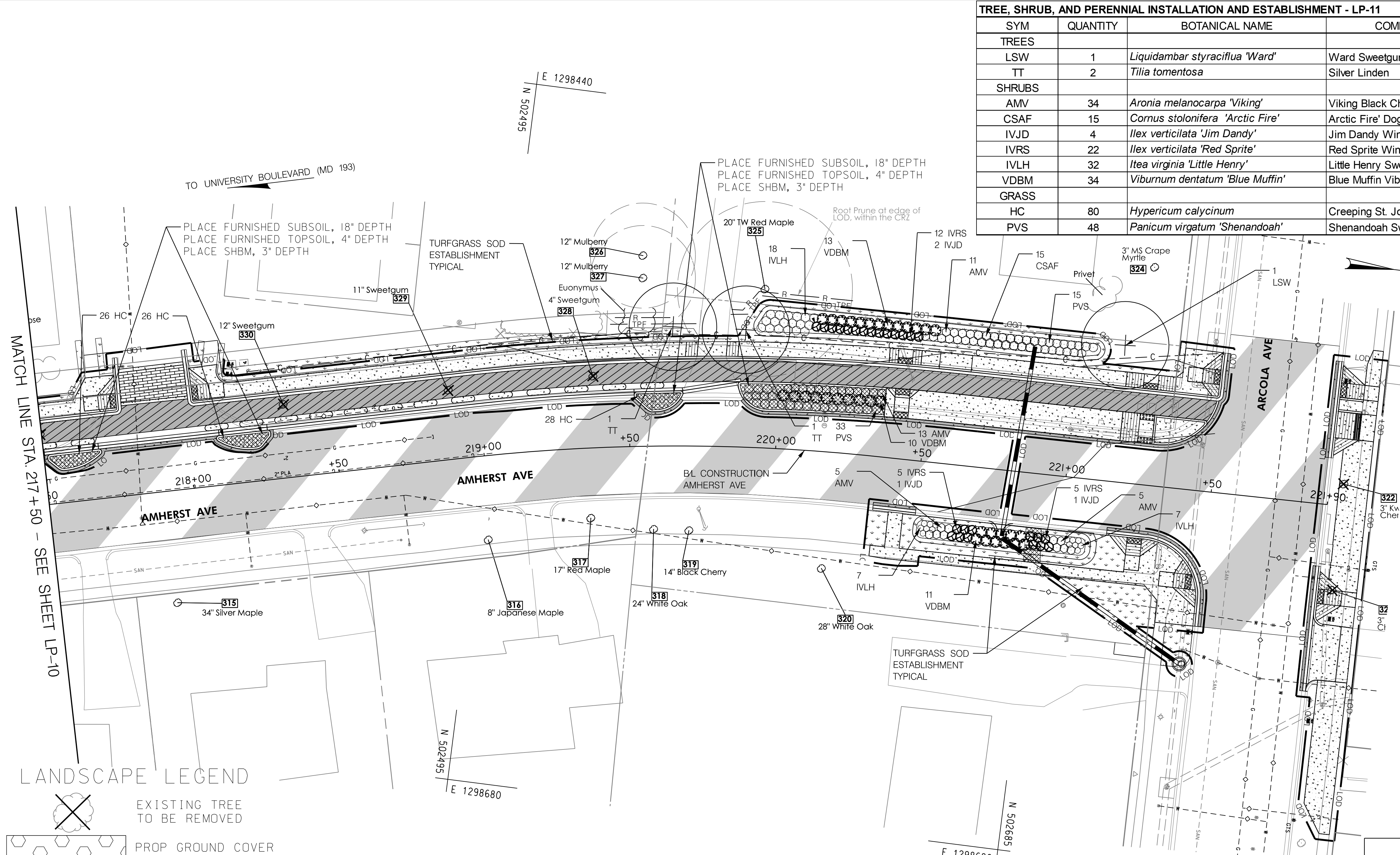
LP-10

DEPARTMENT OF TRANSPORTATION
DIVISION OF TRANSPORTATION ENGINEERING
MONTGOMERY COUNTY, MARYLAND

AMHERST AVE CYCLE TRACK
LANDSCAPE & TREE PROTECTION PLAN

SCALE: 1"=20' SHEET 89 of 208

TREE, SHRUB, AND PERENNIAL INSTALLATION AND ESTABLISHMENT - LP-11						
SYM	QUANTITY	BOTANICAL NAME	COMMON NAME	SIZE	BALL	REMARKS
TREES						
LSW	1	<i>Liquidambar styraciflua</i> 'Ward'	Ward Sweetgum	2.5 IN. CAL.	B&B	SINGLE LEADER / SEEDLESS
TT	2	<i>Tilia tomentosa</i>	Silver Linden	2.5 IN. CAL.	B&B	CENTRAL LEADER
SHRUBS						
				SIZE	SPACING	CONTAINER
AMV	34	<i>Aronia melanocarpa</i> 'Viking'	Viking Black Chokeberry	24 IN. HT.	3' O.C.	#3
CSAF	15	<i>Cornus stolonifera</i> 'Arctic Fire'	Arctic Fire' Dogwood	24 IN. HT.	3' O.C.	#3
IVJD	4	<i>Ilex verticillata</i> 'Jim Dandy'	Jim Dandy Winterberry	24 IN. HT.	3' O.C.	#3 / Pollinator
IVRS	22	<i>Ilex verticillata</i> 'Red Sprite'	Red Sprite Winterberry	24 - 30" IN. HT.	3' O.C.	#3
IVLH	32	<i>Itea virginica</i> 'Little Henry'	Little Henry Sweetspire	24" - 30" IN. HT.	3' O.C.	#3
VDBM	34	<i>Viburnum dentatum</i> 'Blue Muffin'	Blue Muffin Viburnum	24" - 30" IN. HT.	4' O.C.	#3
GRASS						
HC	80	<i>Hypericum calycinum</i>	Creeping St. John's Wort	1 GAL.	18" O.C.	#1
PVS	48	<i>Panicum virgatum</i> 'Shenandoah'	Shenandoah Switchgrass	2 GAL.	3' O.C.	#2



- LANDSCAPE NOTES:**
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LANDSCAPE LEGEND

- EXISTING TREE TO BE REMOVED
- PROP GROUND COVER
- PROP TURFGRASS SOD
- TREE ROOT PRUNING
- 4-FOOT FARM TYPE FENCE FOR TREE PROTECTION (TPF)
- PROPOSED TREE
- PROPOSED SHRUB
- SHREDDED HARDWOOD BARK MULCH

TREE REMOVAL - THIS SHEET

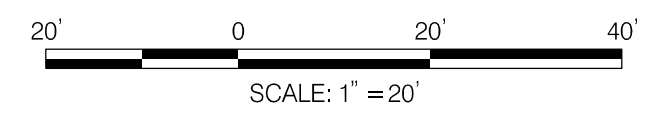
NO.	COMMON NAME	SCIENTIFIC NAME	DBH (IN)	CRZ (FT)	CONDITION
T-321	KWANZAN CHERRY	PRUNUS SERULATA 'KWANZAN'	3	3	GOOD
T-322	KWANZAN CHERRY	PRUNUS SERULATA 'KWANZAN'	3	3	GOOD
T-328	SWEETGUM	LIQUIDAMBAR STYRICIFLUA	4	4	GOOD
T-329	SWEETGUM	LIQUIDAMBAR STYRICIFLUA	11	11	GOOD
T-330	SWEETGUM	LIQUIDAMBAR STYRICIFLUA	12	12	GOOD

LANDSCAPE 700 ITEMS - THIS SHEET ONLY

QTY	UNIT	STATION, OFFSET	CAT. CODE	ITEM	SHA SPECS
75	LF	STA. 219+50 TO 220+25	693104	4 FOOT FARM TYPE FENCE	120
518	SY	STA. 217+50 TO 221+50	704345	FURNISHED TOPSOIL 4 INCH DEPTH	701
66	SY	STA. 217+50 TO 220+40	701214	FURNISHED SUBSOIL 18 INCH DEPTH	701
452	SY	STA. 217+50 TO 221+50	705565	REFERTILIZING	705
452	SY	STA. 217+50 TO 221+50	708220	TURFGRASS SOD ESTABLISHMENT	708
75	LF	STA. 219+50 TO 220+25	715050	TREE ROOT PRUNING	715
213	SY	STA. 217+50 TO 220+40	715015	SHBM, 3 IN DEPTH	710



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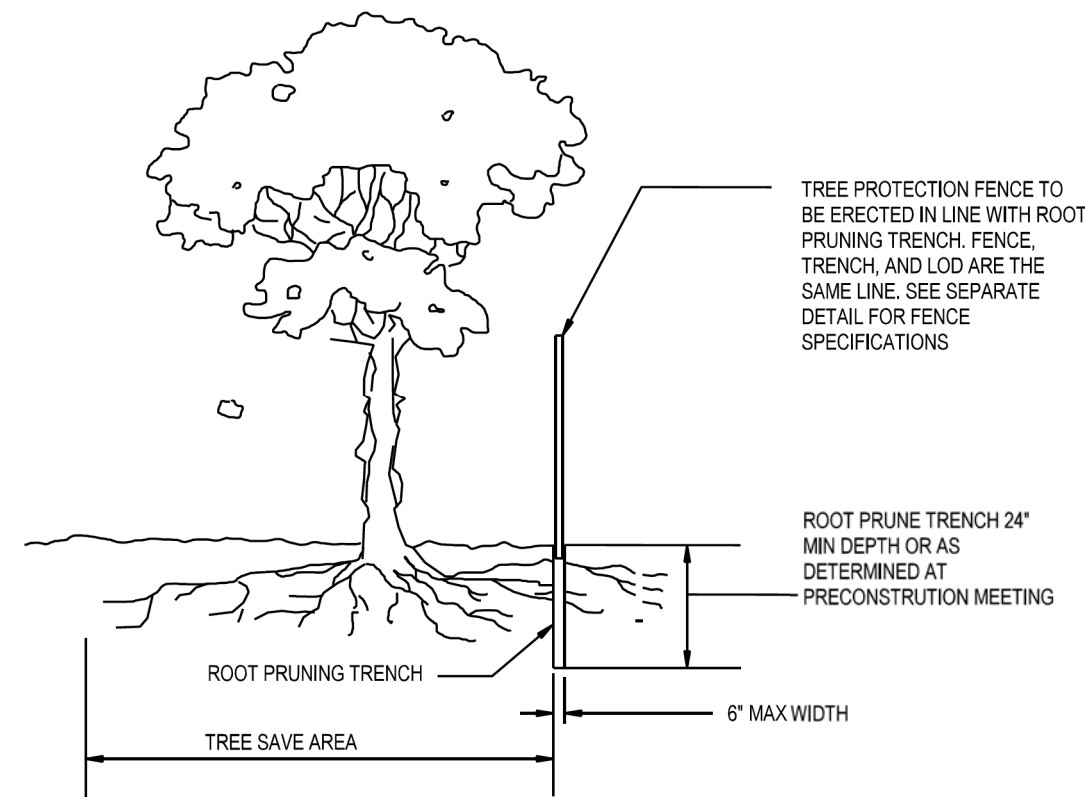
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Chief, Design Section _____ Date _____
APPROVED
Chief, Division of Transportation Engineering _____ Date _____

DEPARTMENT OF TRANSPORTATION
DIVISION OF TRANSPORTATION ENGINEERING
MONTGOMERY COUNTY, MARYLAND

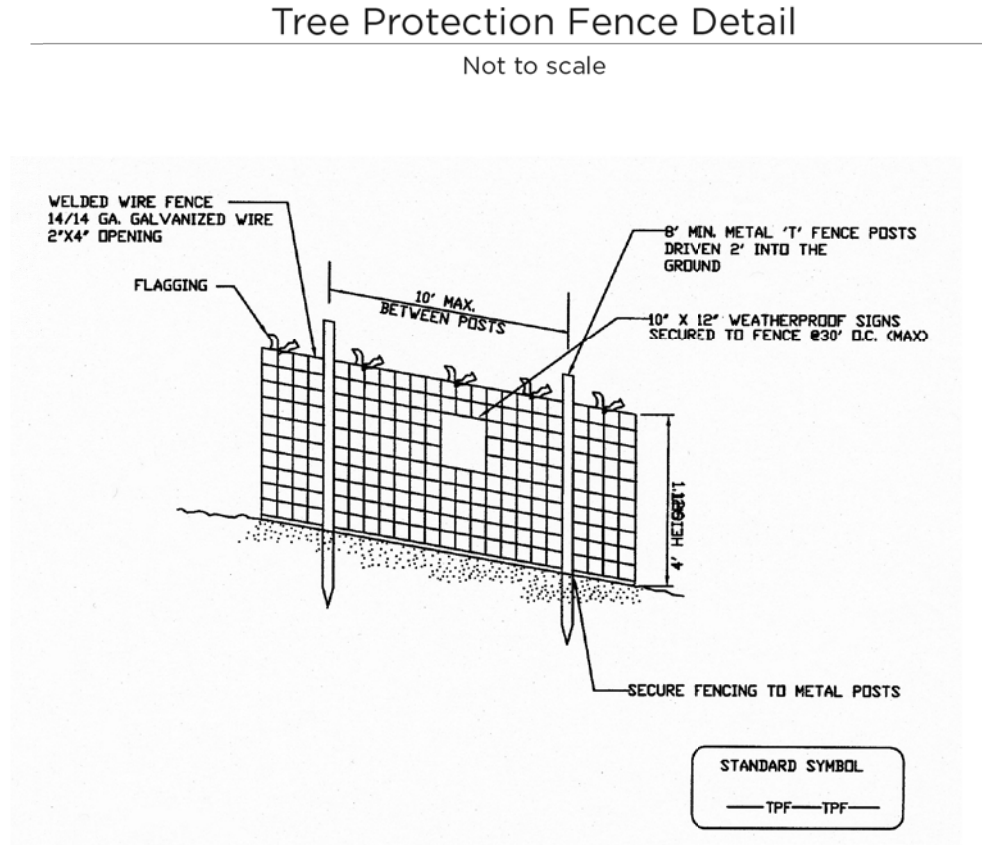
AMHERST AVE CYCLE TRACK
LANDSCAPE & TREE PROTECTION PLAN

10/9/2023 U:\2026\213141\700 CADD\700 Sheet\lp-11-AmherstAve.dgn



- NOTES:
1. RETENTION AREAS WILL BE SET AS PART OF THE REVIEW PROCESS AND PRECONSTRUCTION MEETING.
 2. BOUNDARIES OF RETENTION AREAS MUST BE STAKED AT THE PRECONSTRUCTION MEETING AND FLAGGED PRIOR TO TRENCHING.
 3. EXACT LOCATION OF TRENCH SHALL BE DETERMINED IN THE FIELD IN COORDINATION WITH THE FOREST CONSERVATION (FC) INSPECTOR.
 4. TRENCH SHOULD BE IMMEDIATELY BACKFILLED WITH EXCAVATED SOIL OR OTHER ORGANIC SOIL AS SPECIFIED PER PLAN OR BY THE FC INSPECTOR.
 5. ROOTS SHALL BE CLEANLY CUT USING VIBRATORY KNIFE OR OTHER ACCEPTABLE EQUIPMENT.
 6. ALL PRUNING MUST BE EXECUTED WITH LOD SHOWN ON PLANS OR AS AUTHORIZED IN WRITING BY THE FC INSPECTOR.

ROOT PRUNING DETAIL
NTS



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

693104 4 FOOT FARM FENCE TREE PROTECTION FENCE (TPF)
Montgomery County Planning Department • M-NCPPC
MontgomeryPlanning.org

TREE PROTECTION NOTE:
REFER TO APPROVED NR/FS 42022181E FOR SEQUENCE OF CONSTRUCTION & NOTES FOR TREE PROTECTION.

SPECIMEN TREE LIST WITHIN TREE SURVEY							
NO.	DBH (IN)	COMMON NAME	SCIENTIFIC NAME	CONDITION	REMARK	TBR	SHEET
38	38"	Scarlet Oak	Quercus coccinea	GOOD		N	1
54	31.5"	Silver Maple	Acer saccharinum	GOOD		N	2
65	34"	Willow Oak	Quercus phellos	GOOD		N	2
70	38"	Willow Oak	Quercus phellos	GOOD		N	2
73	41"	Willow Oak	Quercus phellos	GOOD		N	2
88	35"	Pin Oak	Quercus palustris	GOOD		N	3
118	33"	Willow Oak	Quercus phellos	FAIR	Some decay present	N	3
119	46"	Willow Oak	Quercus phellos	GOOD		N	3
272	38"	Silver Maple	Acer saccharinum	GOOD		N	9
286	36"	Silver Maple	Acer saccharinum	GOOD		N	9

LANDSCAPE 700 ITEMS - MASTER LIST				
QTY	UNIT	CAT. CODE	ITEM	SHA SPECS
561	LF	693104	4 FOOT FARM FENCE (TPF)	120
470	SY	701214	FURNISHED SUBSOIL 18 INCH DEPTH	701
1302	SY	704345	FURNISHED TOPSOIL 4 INCH DEPTH	701
971	SY	705565	REFERTILIZING	705
971	SY	708220	TURFGRASS SOD ESTABLISHMENT	708
479	SY	715015	SHREDDED HARDWOOD BARK MULCHING (3")	710
379	LF	715050	TREE ROOT PRUNING	710

- TREE PROTECTION NOTES**
1. THE CONTRACTOR SHALL INSTALL TREE PROTECTION TO TREES THAT ARE WITHIN THE LIMITS OF DISTURBANCE (LOD) OR DIRECTLY ADJACENT TO WORK AREA. TREE PROTECTION SHALL BE INSTALLED PRIOR TO AND THROUGH-OUT CONSTRUCTION AND REMOVED AT THE END OF THE PROJECT. TREE PROTECTION DEVICES SHALL REMAIN IN PLACE UNTIL AFTER FINAL INSPECTION.
 2. THE CONTRACTOR SHALL INSTALL ALL TREE PROTECTION DEVICES IN VISIBLE LOCATIONS AS SHOWN ON PLAN. ENSURE PROTECTION DEVICES ARE WELL ANCHORED.
 3. CRITICAL ROOT ZONE IS 1:1.5 X DBH INCH (TREE DIAMETER AT BREAST HEIGHT = DBH). E.G. THE CRITICAL ROOT ZONE FOR A TREE WITH A 10-INCH DBH, OR DIAMETER AT BREAST HEIGHT IS 15 FEET ON EVERY SIDE MEASURED FROM THE BASE OF THE TREE.
 4. THE CONTRACTOR SHALL PROTECT THE CRZ BY ERECTING TREE PROTECTION FENCING IN LOCATIONS DELINEATED ON THE TREE PROTECTION PLAN TO PROTECT TREE ROOT SYSTEMS AND OTHER VEGETATION. THE AREA WITHIN THE TREE PROTECTION FENCE IS A RESTRICTED, ALL CONSTRUCTION ACTIVITIES ARE NOT ALLOWED. IF CONSTRUCTION CAN NOT BE AVOIDED WITHIN THE CRZ, INSTALL TEMPORARY ROOT PROTECTION MATTING AND PROTECTIVE LAYER OF WOOD CHIPS, 12" DEPTH.
 5. AVOID ALTERATION OR DISTURBANCE TO THE EXISTING GRADE WITHIN THE CRZ OUTSIDE OF THE LOD.
 6. DO NOT STORE CONSTRUCTION MATERIALS, EQUIPMENT, SOIL OR DEBRIS WITHIN THE CRZ.
 7. DO NOT DISPOSE ANY LIQUIDS, CONCRETE, GAS, OIL, PAINT, AND/OR BLACKTOP WITHIN THE CRZ.
 8. TREES WITH CRZ IN THE PROJECT AREA MUST BE WATERED EVERY 10 DAYS FROM APRIL THROUGH SEPTEMBER.
 9. PRUNING OF ALL TREES SHOULD BE IN ACCORDANCE WITH INDUSTRY STANDARDS OF THE INTERNATIONAL SOCIETY OF ARBORICULTURE OR ANZI 133.1 OR BY A CERTIFIED ARBORIST.
 11. PRUNING SHOULD BE LIMITED TO THE REMOVAL OF DEAD WOOD AND THE CORRECTION OF POTENTIALLY HAZARDOUS CONDITIONS, AS EVALUATED BY A CERTIFIED ARBORIST. TREE BRANCH PRUNING SHALL BE PERFORMED OR DIRECTLY SUPERVISED BY A MARYLAND LICENSED TREE EXPERT IN CONFORMANCE WITH ANSI A200 STANDARDS AS NECESSARY FOR ANY OF THE FOLLOWING:
 - TO INSTALL TREE PROTECTION FENCE ALONG THE LOD.
 - 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 ALL UTILITIES.
 - ALL DEBRIS SHALL BE REMOVED FROM PROJECT AREA.

TREE, SHRUB, AND PERENNIAL INSTALLATION AND ESTABLISHMENT - MASTER PLANT LIST						
SYM	QUANTITY	BOTANICAL NAME	COMMON NAME	SIZE	BALL	REMARKS
TREES						
LSW	6	<i>Liquidambar styraciflua 'Ward'</i>	Ward Sweetgum	2.5 IN. CAL.	B&B	SINGLE LEADER / SEEDLESS
QLH	4	<i>Quercus lyrata 'Highbeam'</i>	Highbeam Overcup Oak	2.5 IN. CAL.	B&B	CENTRAL LEADER
TT	6	<i>Tilia tomentosa</i>	Silver Linden	2.5 IN. CAL.	B&B	CENTRAL LEADER
UP	2	<i>Ulmus parvifolia</i>	Lacebark Elm	2.5 IN. CAL.	B&B	B&B
SHRUBS						
AMV	48	<i>Aronia melanocarpa 'Viking'</i>	Viking Black Chokeberry	24 IN. HT.	3' O.C.	#3
CSAF	57	<i>Cornus stolonifera 'Arctic Fire'</i>	Arctic Fire' Dogwood	24 IN. HT.	3' O.C.	#3
JC	37	<i>Juniperus conferta</i>	Blue Pacific Shore Juniper	6" - 8" IN. HT.	5' O.C.	#3
IVJD	4	<i>Ilex verticillata 'Jim Dandy'</i>	Jim Dandy Winterberry	24 IN. HT.	3' O.C.	#3 / Pollinator
IVRS	22	<i>Ilex verticillata 'Red Sprite'</i>	Red Sprite Winterberry	24 - 30" IN. HT.	3' O.C.	#3
IVLH	32	<i>Itea virginia 'Little Henry'</i>	Little Henry Sweetspire	24" - 30" IN. HT.	3' O.C.	#3
VDBM	63	<i>Viburnum dentatum 'Blue Muffin'</i>	Blue Muffin Viburnum	24" - 30" IN. HT.	4' O.C.	#3
GROUND COVER / GRASSES						
HC	333	<i>Hypericum calycinum</i>	Creeping St. John's Wort	1 GAL.	18" O.C.	#1
PVS	48	<i>Panicum virgatum 'Shenandoah'</i>	Shenandoah Switchgrass	2 GAL.	3' O.C.	#2

NO.	REVISION	BY	APP'D	DATE

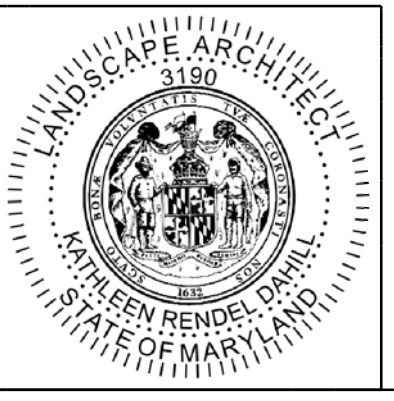
DESIGNED BY: KRD	DATE: OCTOBER, 2023
DRAWN BY: KRD	DATE: OCTOBER, 2023
CHECKED BY: SJZ	DATE: OCTOBER, 2023
DRAWING NO.:	DATE:
RECOMMENDED FOR APPROVAL	
Chief, Design Section	Date
APPROVED	
Chief, Division of Transportation Engineering	Date

DEPARTMENT OF TRANSPORTATION
DIVISION OF TRANSPORTATION ENGINEERING
MONTGOMERY COUNTY, MARYLAND

TREE PROTECTION PLAN
AMHERST AVE CYCLE TRACK
LANDSCAPE & TREE PROTECTION PLAN
NOTES & DETAILS

SCALE: NONE SHEET 91 of 208

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PROFESSIONAL CERTIFICATION:
I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A REGISTERED LANDSCAPE ARCHITECT UNDER THE LAWS OF THE STATE OF MARYLAND.
LICENSE NO: 3190 EXPIRATION DATE: 05/07/23



LP-12

GENERAL LANDSCAPE NOTES

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 ENGINEER.
4. DO NOT REMOVE OR PRUNE THE BRANCHES OR ROOTS OF TREES WITHIN MDOT SHA RIGHT-OF-WAY WITHOUT AN APPROVED ROADSIDE TREE PERMIT OR REFORESTATION SITE REVIEW APPROVAL FROM THE MD DEPARTMENT OF NATURAL RESOURCES FOREST SERVICE.
5. PLANT IN CLUSTERS OF 3 TO 5 INDIVIDUAL TREES/SHRUBS OF LIKE SPECIES TO CREATE A PATTERN CONSISTENT WITH NATURAL FOREST DEVELOPMENT.

SITE SPECIFIC NOTES

1. TREE PLANTING SETBACKS:
 - A. NO TREES SHALL BE LOCATED IN CLEAR ZONES ADJACENT TO TRAVEL LANES OR IN INTERSECTION SIGHT TRIANGLES.
 1. IN FILL SLOPES OF 5:1 TO 4:1 THE MINIMUM OFFSET DISTANCE TO TREE TRUNKS FOR A TRAVEL LANE WITH A 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 AT MATURITY) 30 FT. FROM WIRES AND POLES.
 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 DIAMETER FROM THE CENTERLINE OF WATER, GAS, AND SANITARY SEWER 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.
 - F. INSTALL SHADE TREES AND UPRIGHT/COLUMNAR ORNAMENTAL TREES AT LEAST 5 FT. BACK FROM THE BACK OF CURB IN CLOSED-SECTION MEDIAN PLANTINGS.
 - G. INCREASE SETBACKS FROM ROADS, SIDEWALKS, TRAFFIC CONTROL DEVICES AND STRUCTURES FOR MULTISTEMMED AND/OR BROAD-SPREADING ORNAMENTAL TREES TO MAINTAIN NECESSARY BRANCH CLEARANCE.
2. SHRUB PLANTING SETBACKS:
 - 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 TO EXISTING TERRAIN WILL EXCEED 30 IN. HEIGHT.

MDTA LANDSCAPE NOTES

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/MDTA 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](http://www.roads.maryland.gov/index.aspx?pageid=25)

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](http://www.roads.maryland.gov/index.aspx?pageid=44)

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 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 [HTTP://APPS.ROADS.MARYLAND.GOV/BUSINESSWITHSHA/BIZSTDSSPECS/DESMANUALSTDPUB/PUBLICATIONSONLINE/OHD/BOOKSTD/TOCCAT7.ASP](http://apps.roads.maryland.gov/businesswithsha/bizstdspecs/desmanualstdpub/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 MULCH SHALL BE APPLIED ON SLOPES 4:1 AND STEEPER, AND TO AREAS WITHIN 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.

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

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

7.8 SOIL RESTORATION. AREAS OF PAVEMENT REMOVAL, EXCAVATION OR DRILLING IN LANDSCAPED AREAS SHALL REMOVE EXCAVATED DEBRIS AND RESTORE THE SUBGRADE WITH APPROVED SUBSOIL AND TOPSOIL PLACED IN CONFORMANCE WITH SECTION 701 OF THE SHA STANDARD SPECIFICATIONS.

1. A LAYER OF APPROVED TOPSOIL AT LEAST 4 INCH DEPTH SHALL BE PLACED ON ALL DISTURBED AREAS FLATTER THAN 2:1 AND IN ALL CHANNELS PRIOR TO SEEDING, SODDING OR OTHER LANDSCAPING, UNLESS OTHERWISE SPECIFIED.
2. A LAYER OF APPROVED TOPSOIL AT LEAST 2 INCH DEPTH SHALL BE PLACED ON ALL DISTURBED AREAS 2:1 AND STEEPER PRIOR TO SEEDING, SODDING OR OTHER LANDSCAPING, UNLESS OTHERWISE SPECIFIED.
3. BIORETENTION SOIL MIX (BSM) AND OTHER MATERIALS INSTALLED IN CONJUNCTION WITH SPI 316 - STORMWATER FILTRATION FACILITIES AND SHA STORMWATER DETAILS SHALL BE INSTALLED IN CONFORMANCE WITH THE SHA LANDSCAPE NOTES AND LANDSCAPE PLANS. PLANT MATERIALS AND MULCH SHALL BE INSTALLED IN CONFORMANCE WITH STORMWATER DETAILS, SECTION 710 OR OTHER SHA SPECIFICATIONS.

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

7.10 TURFGRASS ESTABLISHMENT SHALL BE PERFORMED IN ALL DISTURBED AREAS, OR WITHIN THE AREAS INDICATED IN THE PLANS, IN CONFORMANCE WITH SECTION 705 OF THE SHA STANDARD SPECIFICATIONS. THE REQUIRED APPLICATION RATE OF 20-16-12 FERTILIZER SHALL BE 200 LBS PER ACRE, AND NO FERTILIZER SHALL BE APPLIED FROM NOVEMBER 15 TO MARCH 1.

7.11 SOIL STABILIZATION MATTING SHALL BE INSTALLED IN CONFORMANCE WITH SECTION 709 OF THE SHA STANDARD SPECIFICATIONS, IN CONJUNCTION WITH TURFGRASS ESTABLISHMENT PER SECTION 705 OR MEADOW ESTABLISHMENT PER SECTION 707 AS FOLLOWS:

1. AREAS FLATTER THAN 6:1. TYPE A OR TYPE E MATTING MAY BE INSTALLED IN LIEU OF STRAW MULCH AND HYDROMULCH BINDER IN CONJUNCTION WITH TURFGRASS ESTABLISHMENT.
2. AREAS STEEPER THAN 6:1 AND FLATTER THAN 4:1. TYPE A OR TYPE E MATTING SHALL BE INSTALLED IN LIEU OF STRAW MULCH AND HYDROMULCH BINDER IN CONJUNCTION WITH TURFGRASS ESTABLISHMENT, UNLESS DELINEATED AND NOTED OTHERWISE.
3. CHANNELS, STORMWATER MANAGEMENT FACILITIES, AND SLOPES 4:1 AND STEEPER TYPE A SOIL STABILIZATION MATTING SHALL BE INSTALLED IN LIEU OF STRAW MULCH AND HYDROMULCH BINDER IN CONJUNCTION WITH TURFGRASS ESTABLISHMENT, 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 PERFORMED 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.

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 SUITABILITY, 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.

LP-13

NO.	REVISION	BY	APP'D	DATE	DESIGNED BY: KR D	DATE: OCTOBER, 2023
					DRAWN BY: KR D	DATE: OCTOBER, 2023
					CHECKED BY: SJ Z	DATE: OCTOBER, 2023
					DRAWING NO.:	DATE:
					RECOMMENDED FOR APPROVAL	
					Chief, Design Section	Date
					APPROVED	
					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 REGISTERED LANDSCAPE ARCHITECT UNDER THE LAWS OF THE STATE OF MARYLAND.
LICENSE NO: 3190 EXPIRATION DATE: 05/07/23



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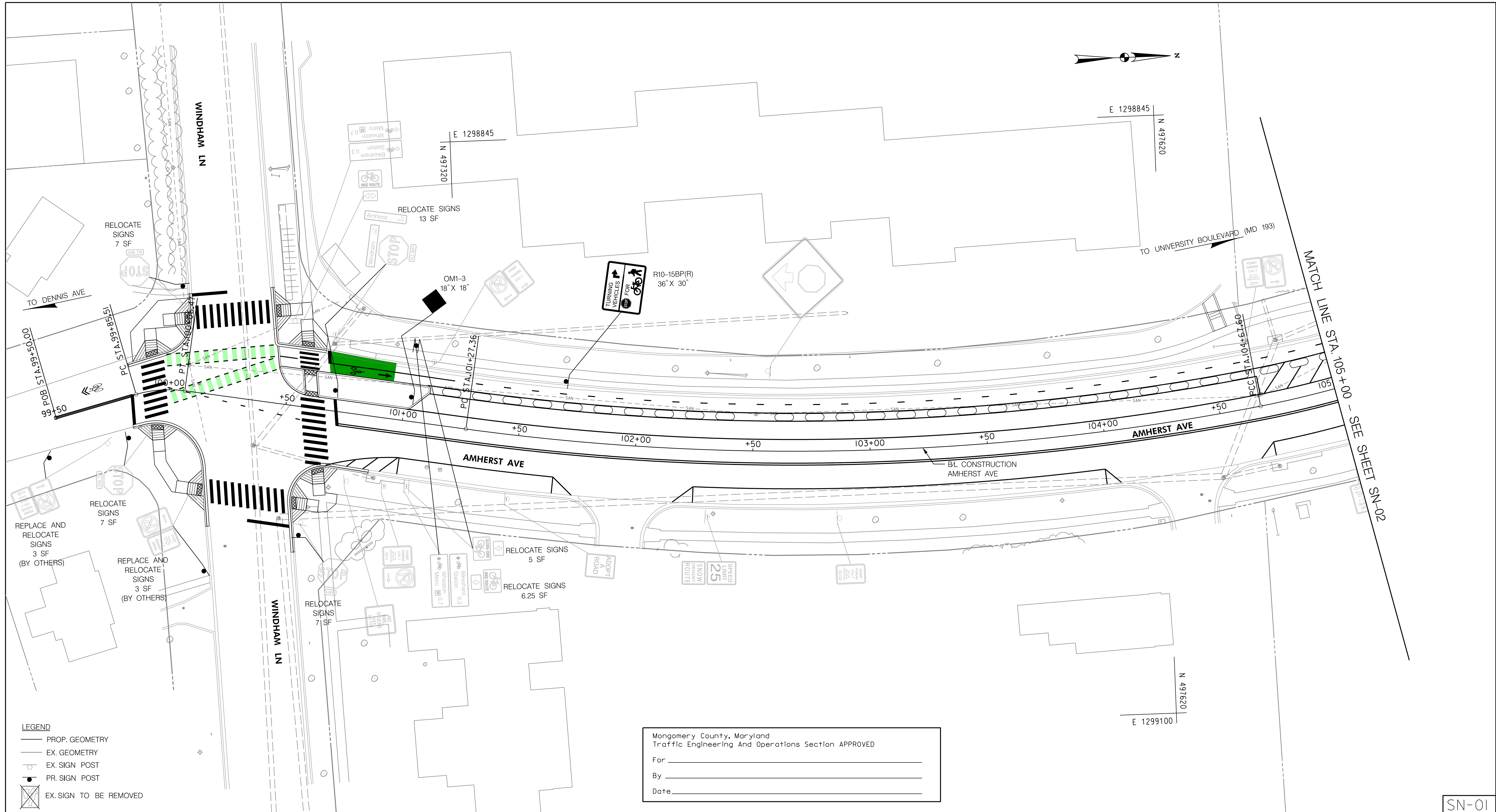
DEPARTMENT OF TRANSPORTATION
DIVISION OF TRANSPORTATION ENGINEERING
MONTGOMERY COUNTY, MARYLAND

LANDSCAPE PLAN
AMHERST AVE CYCLE TRACK
LANDSCAPE & TREE PROTECTION PLAN
NOTES & DETAILS

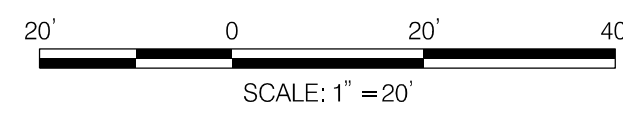
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- LEGEND**
- PROP. GEOMETRY
 - EX. GEOMETRY
 - EX. SIGN POST
 - PR. SIGN POST
 - ⊗ EX. SIGN TO BE REMOVED



Montgomery County, Maryland
 Traffic Engineering And Operations Section APPROVED

For _____
 By _____
 Date _____

NO.	REVISION	BY	APP'D	DATE

DESIGNED BY: UMK	DATE: OCTOBER, 2023
DRAWN BY: UMK	DATE: OCTOBER, 2023
CHECKED BY: SJZ	DATE: OCTOBER, 2023
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Chief, Design Section _____	Date _____
APPROVED	
Chief, Division of Transportation Engineering _____	Date _____

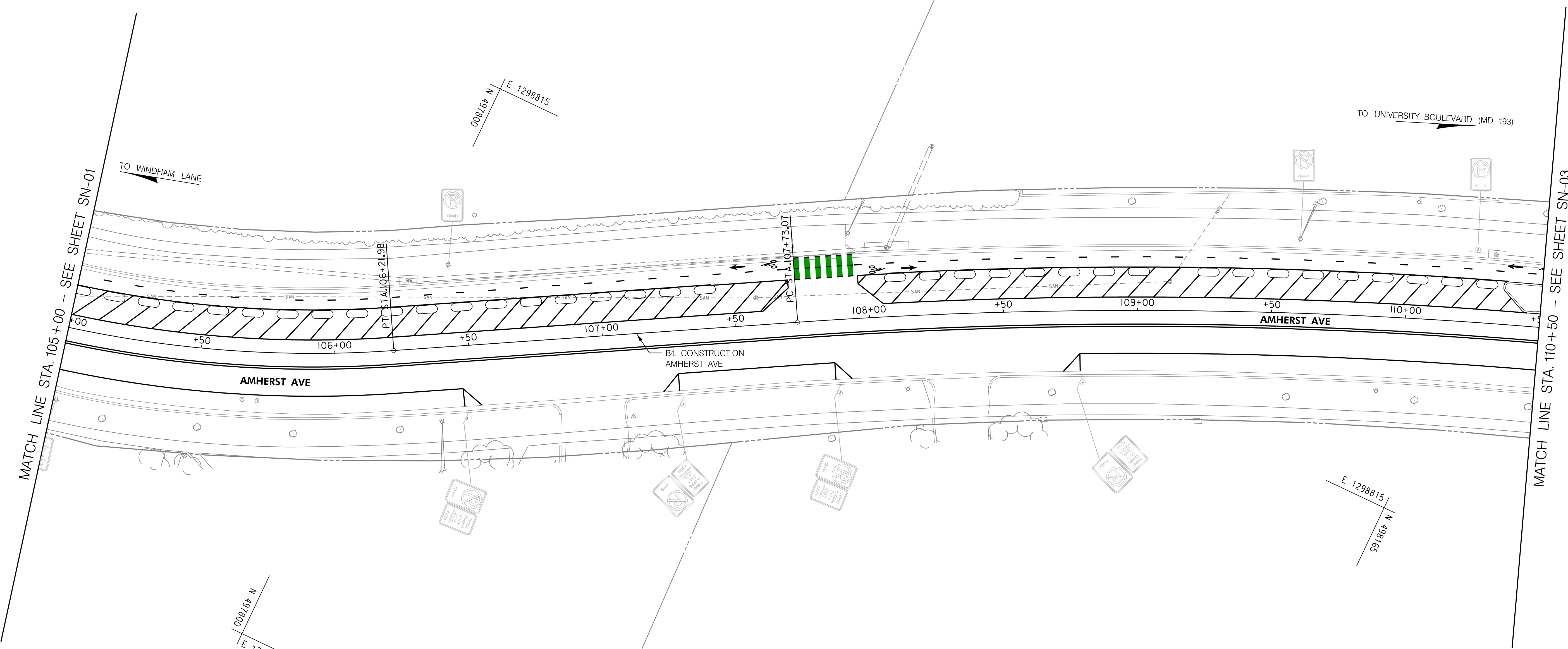
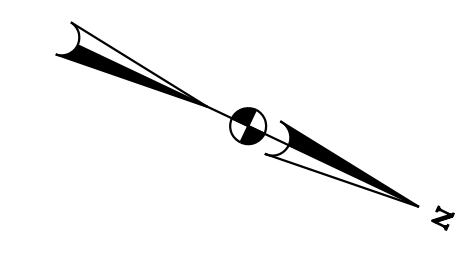
DEPARTMENT OF TRANSPORTATION
 DIVISION OF TRANSPORTATION ENGINEERING
 MONTGOMERY COUNTY, MARYLAND

AMHERST AVE CYCLE TRACK
 SIGNING PLAN



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: _____

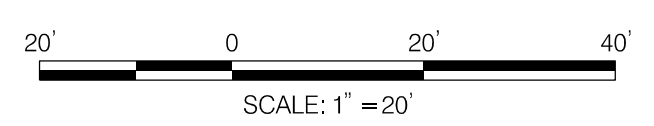
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 - EX. GEOMETRY
 - EX. SIGN POST
 - PR. SIGN POST
 - ⊗ EX. SIGN TO BE REMOVED

Montgomery County, Maryland
 Traffic Engineering And Operations Section APPROVED

For _____
 By _____
 Date _____



NO.	REVISION	BY	APP'D	DATE

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DRAWING NO.:	DATE:
RECOMMENDED FOR APPROVAL	
Chief, Design Section _____	Date _____
APPROVED	
Chief, Division of Transportation Engineering _____	Date _____

DEPARTMENT OF TRANSPORTATION
DIVISION OF TRANSPORTATION ENGINEERING
MONTGOMERY COUNTY, MARYLAND

AMHERST AVE CYCLE TRACK
SIGNING PLAN

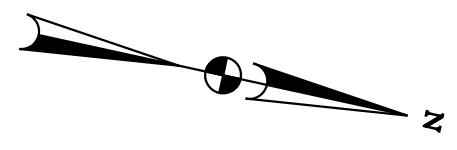


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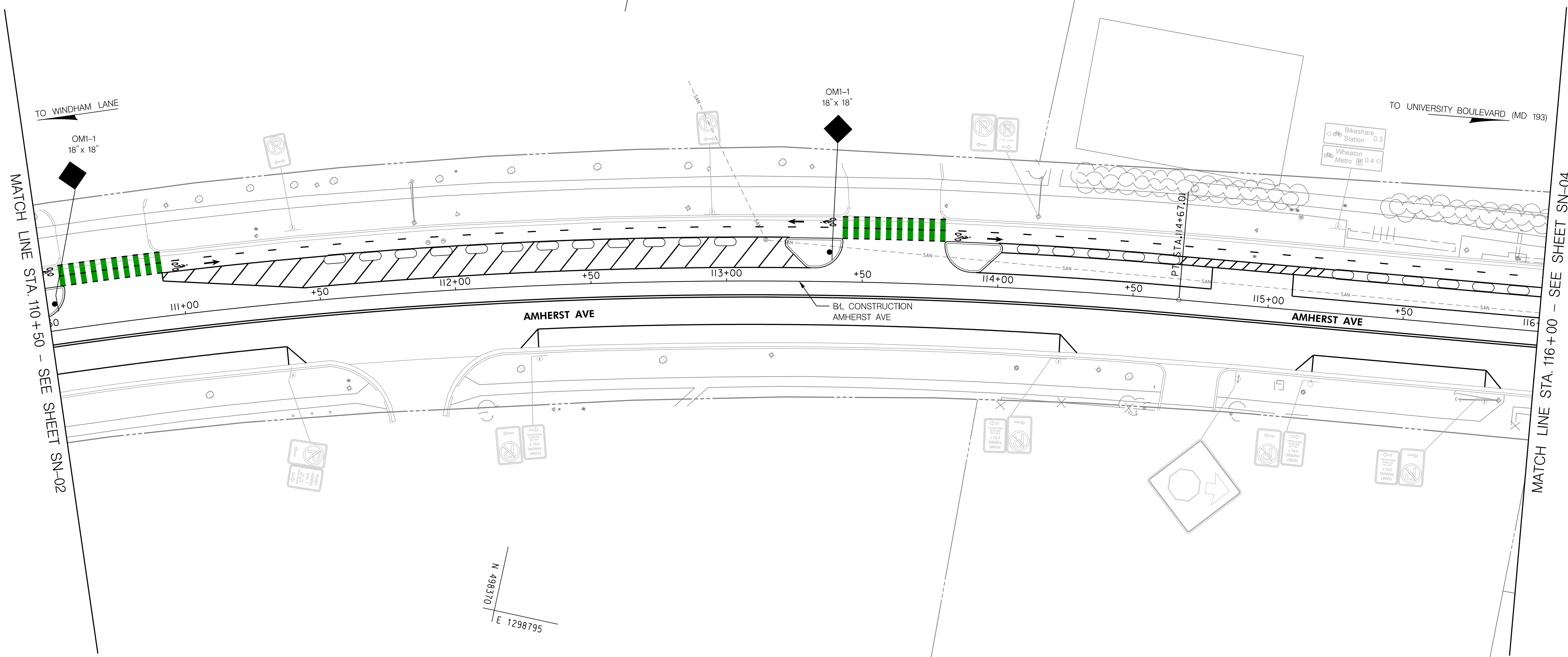
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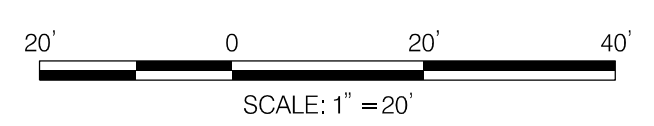
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- LEGEND**
- PROP. GEOMETRY
 - EX. GEOMETRY
 - EX. SIGN POST
 - PR. SIGN POST
 - ⊗ EX. SIGN TO BE REMOVED

Montgomery County, Maryland
Traffic Engineering And Operations Section APPROVED

For _____
By _____
Date _____



NO.	REVISION	BY	APP'D	DATE

DESIGNED BY: UMK	DATE: OCTOBER, 2023
DRAWN BY: UMK	DATE: OCTOBER, 2023
CHECKED BY: SJZ	DATE: OCTOBER, 2023
DRAWING NO.:	DATE:

RECOMMENDED FOR APPROVAL

Chief, Design Section _____ Date _____

APPROVED

Chief, Division of Transportation Engineering _____ Date _____

DEPARTMENT OF TRANSPORTATION
DIVISION OF TRANSPORTATION ENGINEERING
MONTGOMERY COUNTY, MARYLAND

AMHERST AVE CYCLE TRACK
SIGNING PLAN



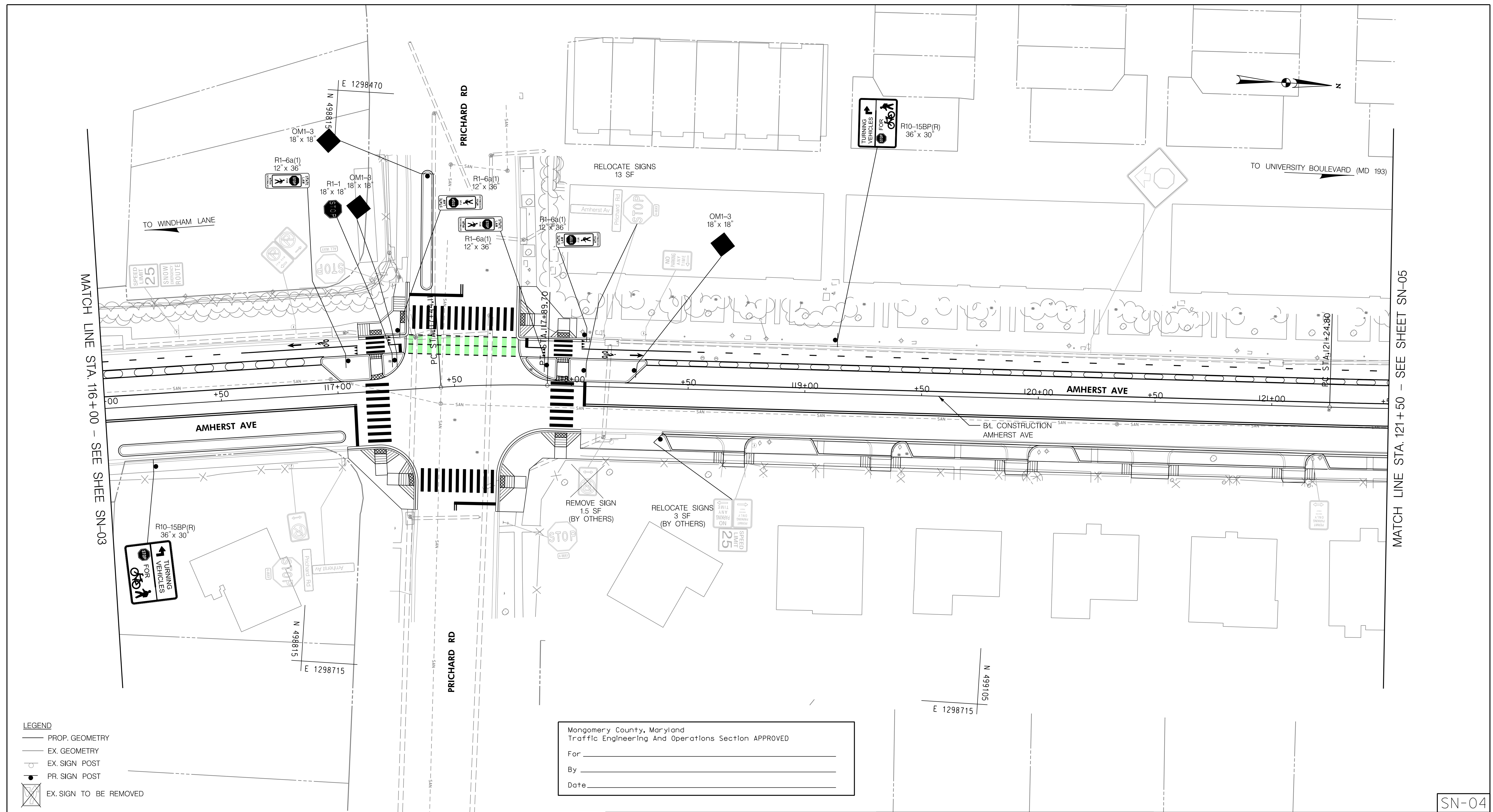
810 Gleneagles Court, Suite 300
Baltimore, MD 21286
www.stantec.com

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

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SN-03

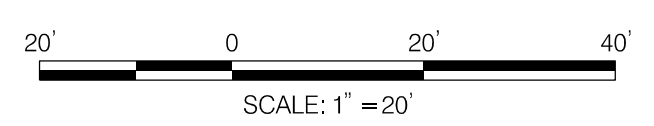
10/9/2023
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- LEGEND**
- PROP. GEOMETRY
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 - EX. SIGN POST
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Montgomery County, Maryland
 Traffic Engineering And Operations Section APPROVED

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DEPARTMENT OF TRANSPORTATION
 DIVISION OF TRANSPORTATION ENGINEERING
 MONTGOMERY COUNTY, MARYLAND

AMHERST AVE CYCLE TRACK
 SIGNING PLAN



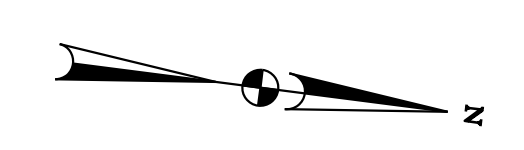
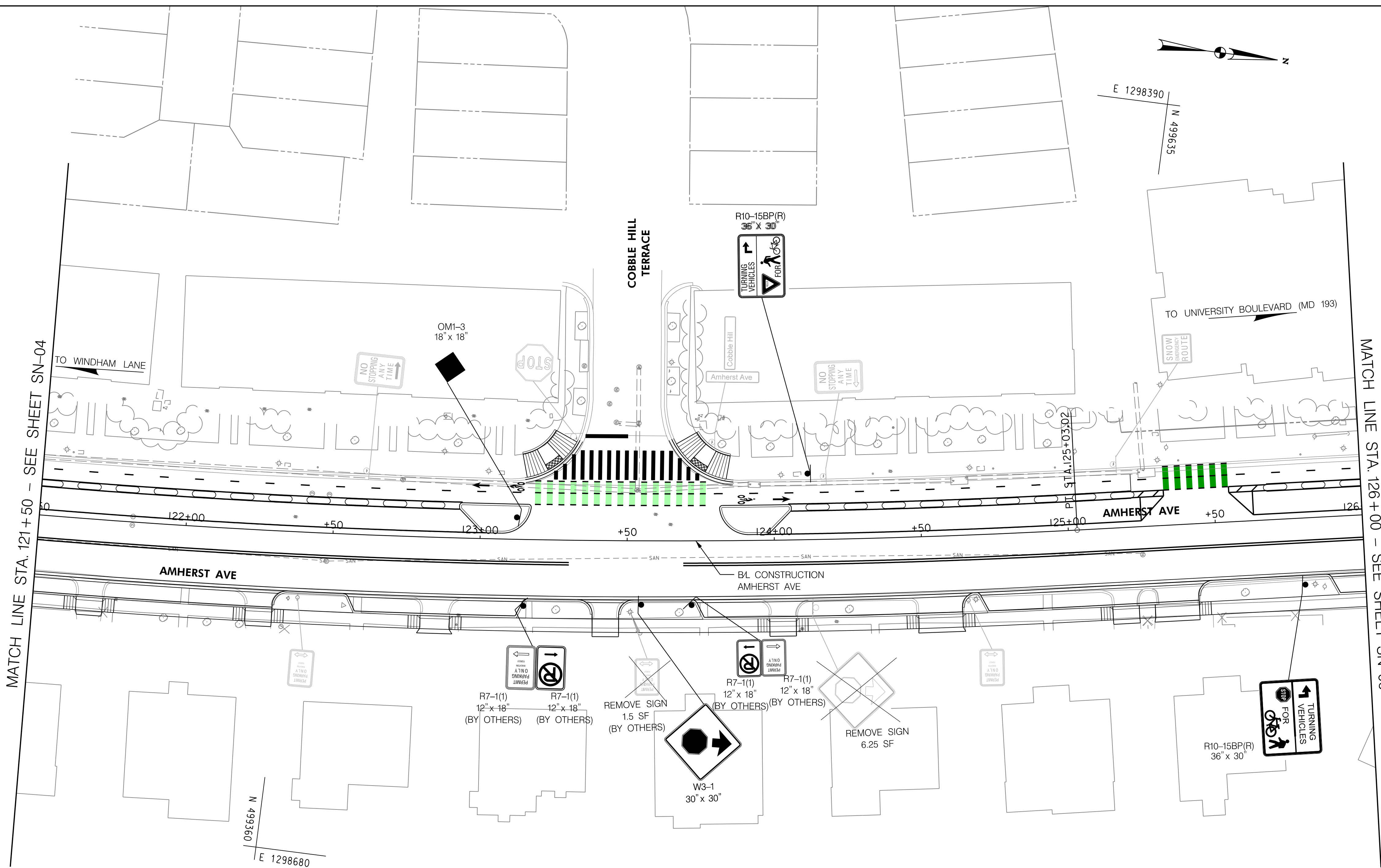
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SN-04

MATCH LINE STA. 116+00 - SEE SHEE SN-03

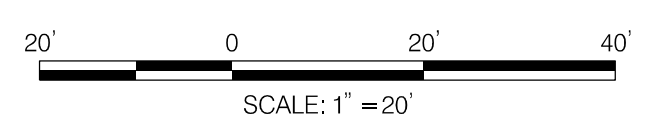
MATCH LINE STA. 121+50 - SEE SHEET SN-05



MATCH LINE STA. 121+50 - SEE SHEET SN-04

MATCH LINE STA. 126+00 - SEE SHEET SN-06

- LEGEND**
- PROP. GEOMETRY
 - EX. GEOMETRY
 - EX. SIGN POST
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 Traffic Engineering And Operations Section APPROVED

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 By _____
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RECOMMENDED FOR APPROVAL

Chief, Design Section _____ Date _____

APPROVED

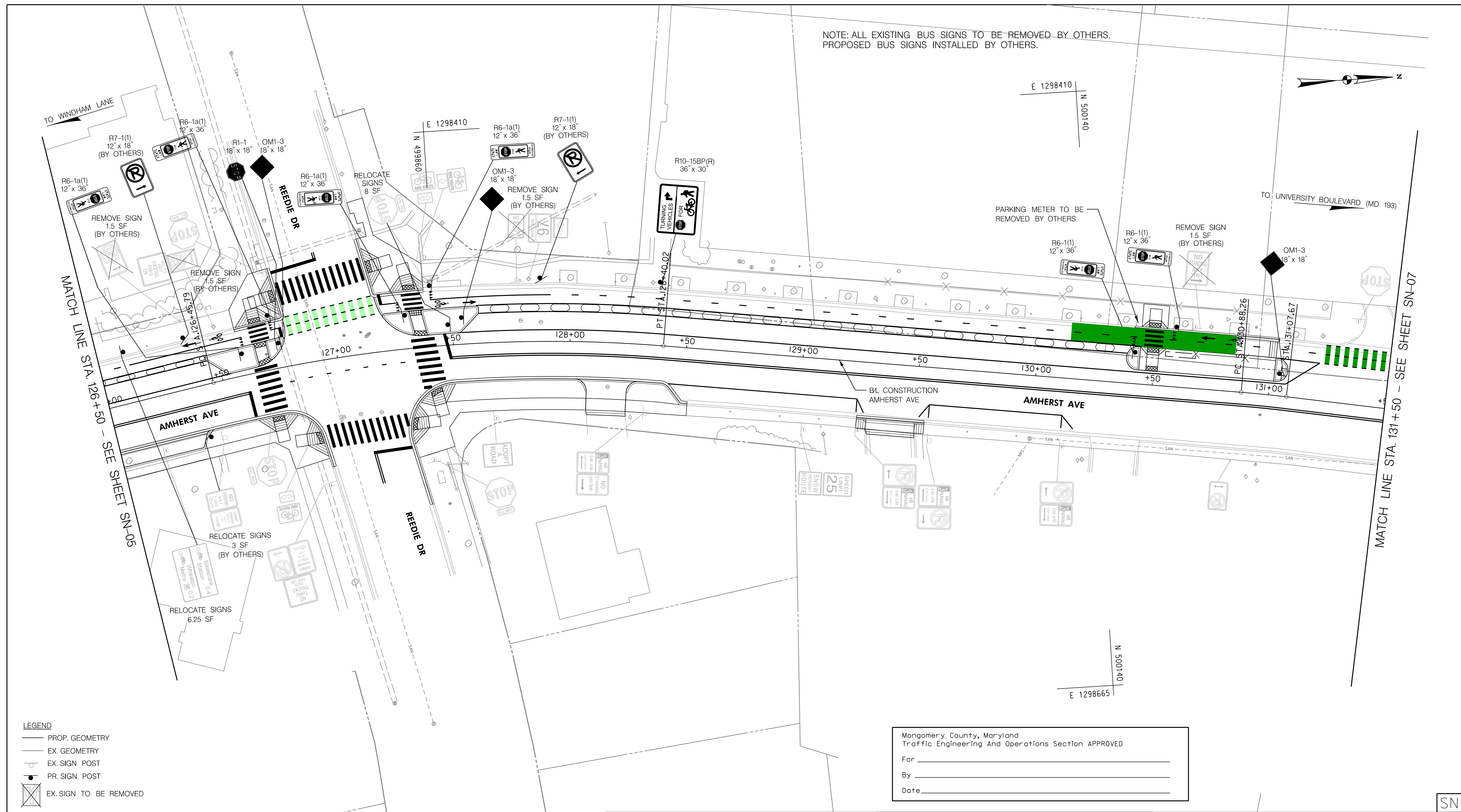
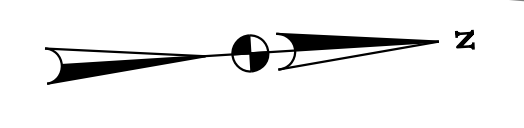
Chief, Division of Transportation Engineering _____ Date _____

DEPARTMENT OF TRANSPORTATION
 DIVISION OF TRANSPORTATION ENGINEERING
 MONTGOMERY COUNTY, MARYLAND

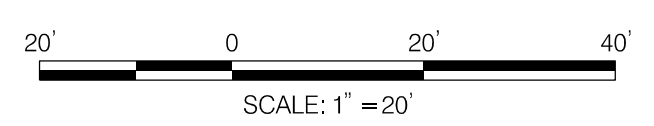
AMHERST AVE CYCLE TRACK
 SIGNING PLAN

SN-05

NOTE: ALL EXISTING BUS SIGNS TO BE REMOVED BY OTHERS, PROPOSED BUS SIGNS INSTALLED BY OTHERS.



- LEGEND**
- PROP. GEOMETRY
 - EX. GEOMETRY
 - EX. SIGN POST
 - PR. SIGN POST
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Montgomery County, Maryland
 Traffic Engineering And Operations Section APPROVED

For _____
 By _____
 Date _____

SN-06

NO.	REVISION	BY	APP'D	DATE

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DRAWING NO.:	DATE:

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Chief, Design Section _____ Date _____

APPROVED

Chief, Division of Transportation Engineering _____ Date _____

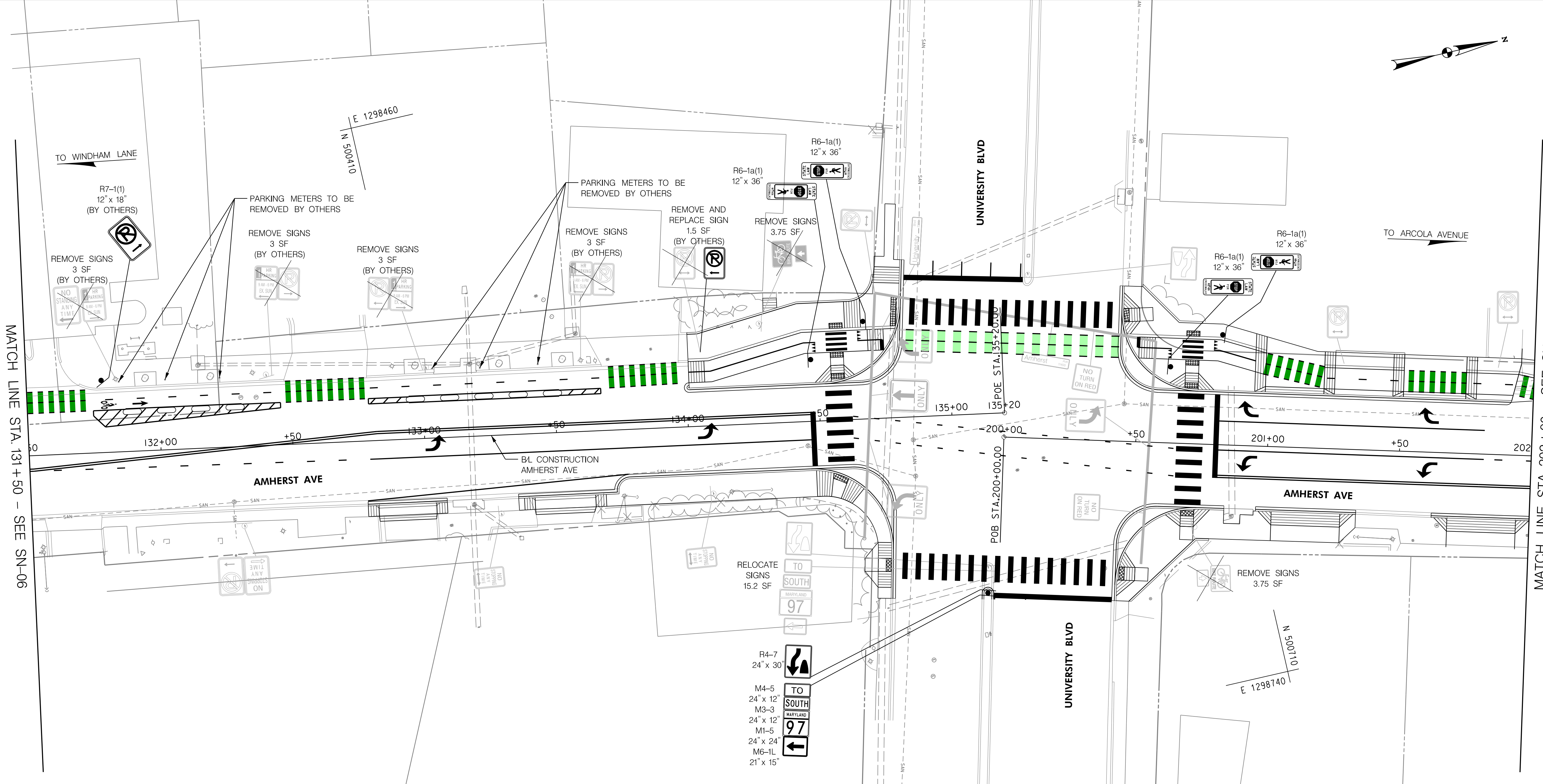
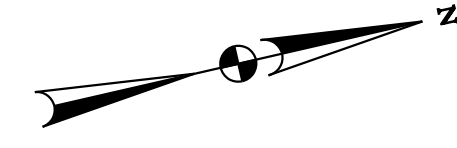
DEPARTMENT OF TRANSPORTATION
DIVISION OF TRANSPORTATION ENGINEERING
MONTGOMERY COUNTY, MARYLAND

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 SIGNING PLAN

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 LICENSE NO: _____ EXPIRATION DATE: _____





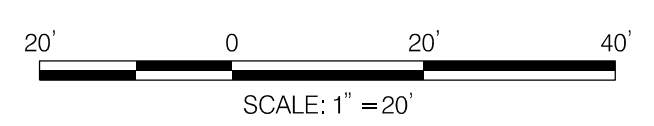
MATCH LINE STA. 131+50 - SEE SN-06

MATCH LINE STA. 202+00 - SEE SN-08

- LEGEND**
- PROP. GEOMETRY
 - EX. GEOMETRY
 - EX. SIGN POST
 - PR. SIGN POST
 - ⊗ EX. SIGN TO BE REMOVED

Montgomery County, Maryland
Traffic Engineering And Operations Section APPROVED

For _____
By _____
Date _____



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NO.	REVISION	BY	APP'D	DATE

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Chief, Design Section _____	Date _____
APPROVED	
Chief, Division of Transportation Engineering _____	Date _____

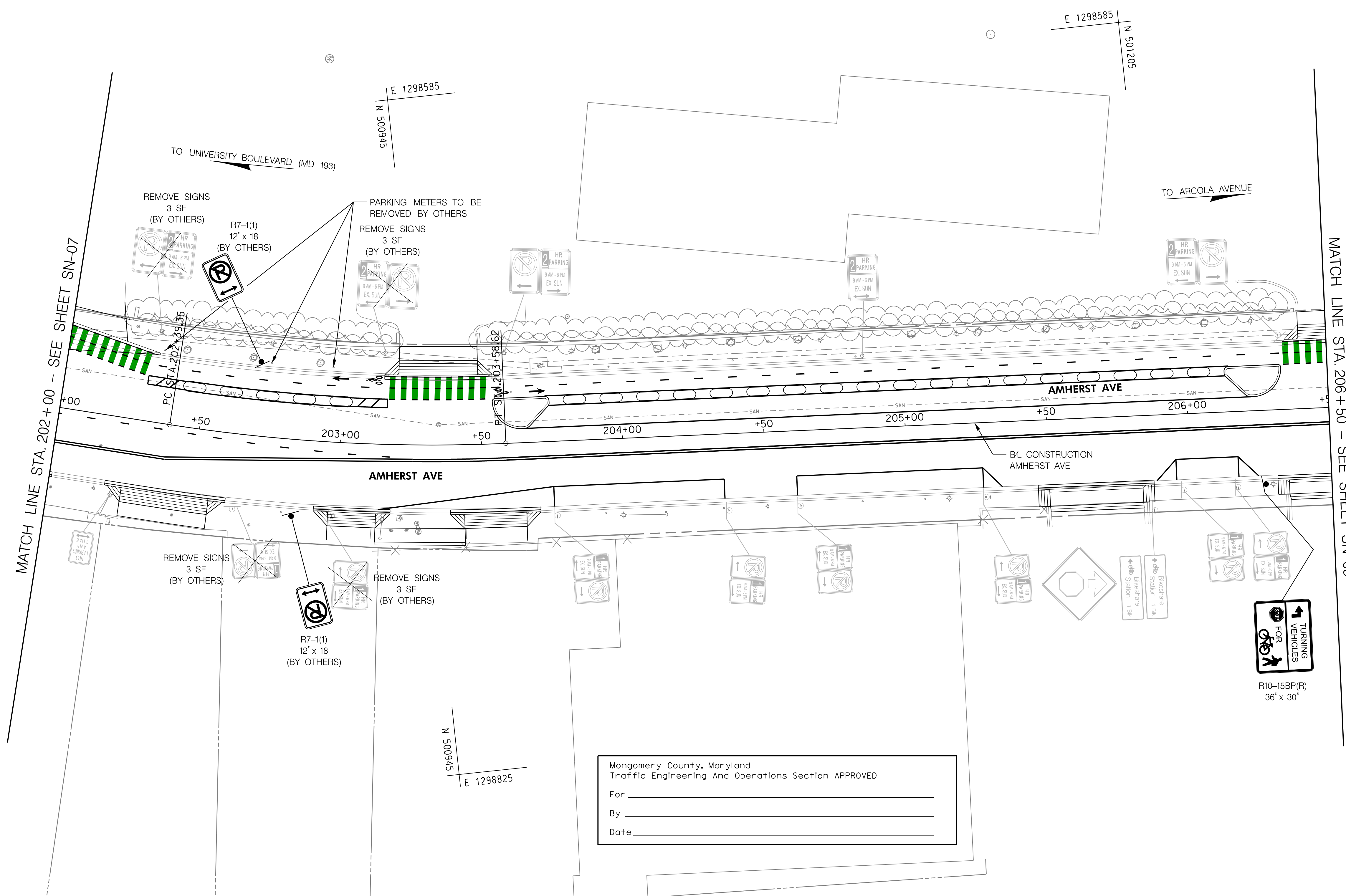
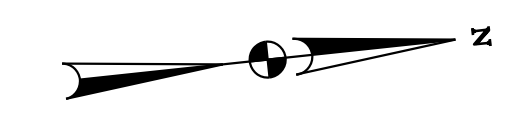
DEPARTMENT OF TRANSPORTATION
DIVISION OF TRANSPORTATION ENGINEERING
MONTGOMERY COUNTY, MARYLAND

AMHERST AVE CYCLE TRACK
SIGNING PLAN

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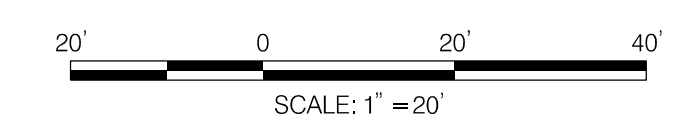
SN-07



MATCH LINE STA. 202+00 - SEE SHEET SN-07

MATCH LINE STA. 206+50 - SEE SHEET SN-09

- LEGEND**
- PROP. GEOMETRY
 - EX. GEOMETRY
 - EX. SIGN POST
 - PR. SIGN POST
 - ⊗ EX. SIGN TO BE REMOVED



Montgomery County, Maryland
Traffic Engineering And Operations Section APPROVED

For _____
By _____
Date _____

SN-08

NO.	REVISION	BY	APP'D	DATE

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DRAWN BY: UMK	DATE: OCTOBER, 2023
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Chief, Design Section _____	Date _____
APPROVED	
Chief, Division of Transportation Engineering _____	Date _____

DEPARTMENT OF TRANSPORTATION
DIVISION OF TRANSPORTATION ENGINEERING
MONTGOMERY COUNTY, MARYLAND

AMHERST AVE CYCLE TRACK
SIGNING PLAN

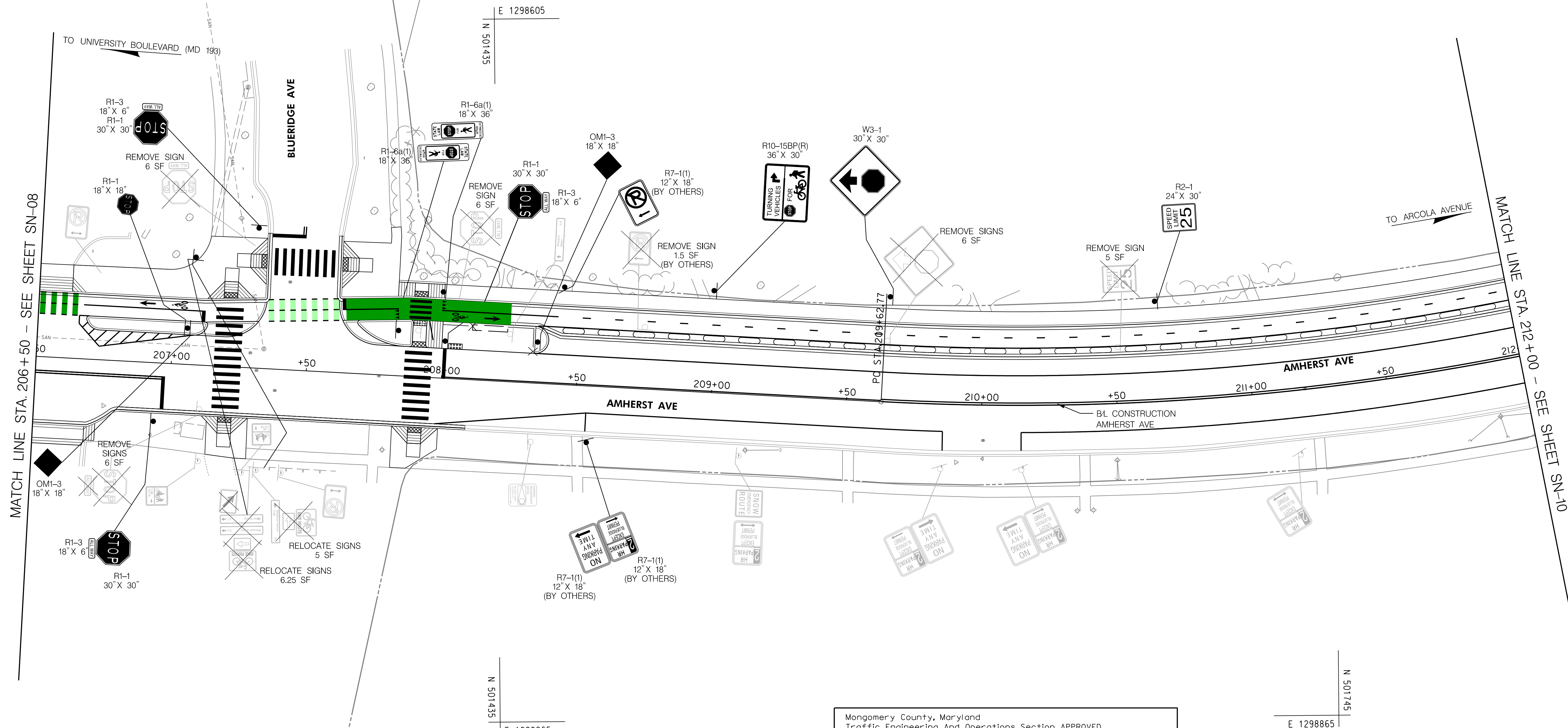
SCALE: 1"=20' SHEET 100 of 208



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 - PR. SIGN POST
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By _____
Date _____

SCALE: 1" = 20'

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BIPPA
Bicycle and Pedestrian Priority Areas

NO.	REVISION	BY	APP'D	DATE

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Chief, Design Section _____	Date _____
APPROVED	
Chief, Division of Transportation Engineering _____	Date _____

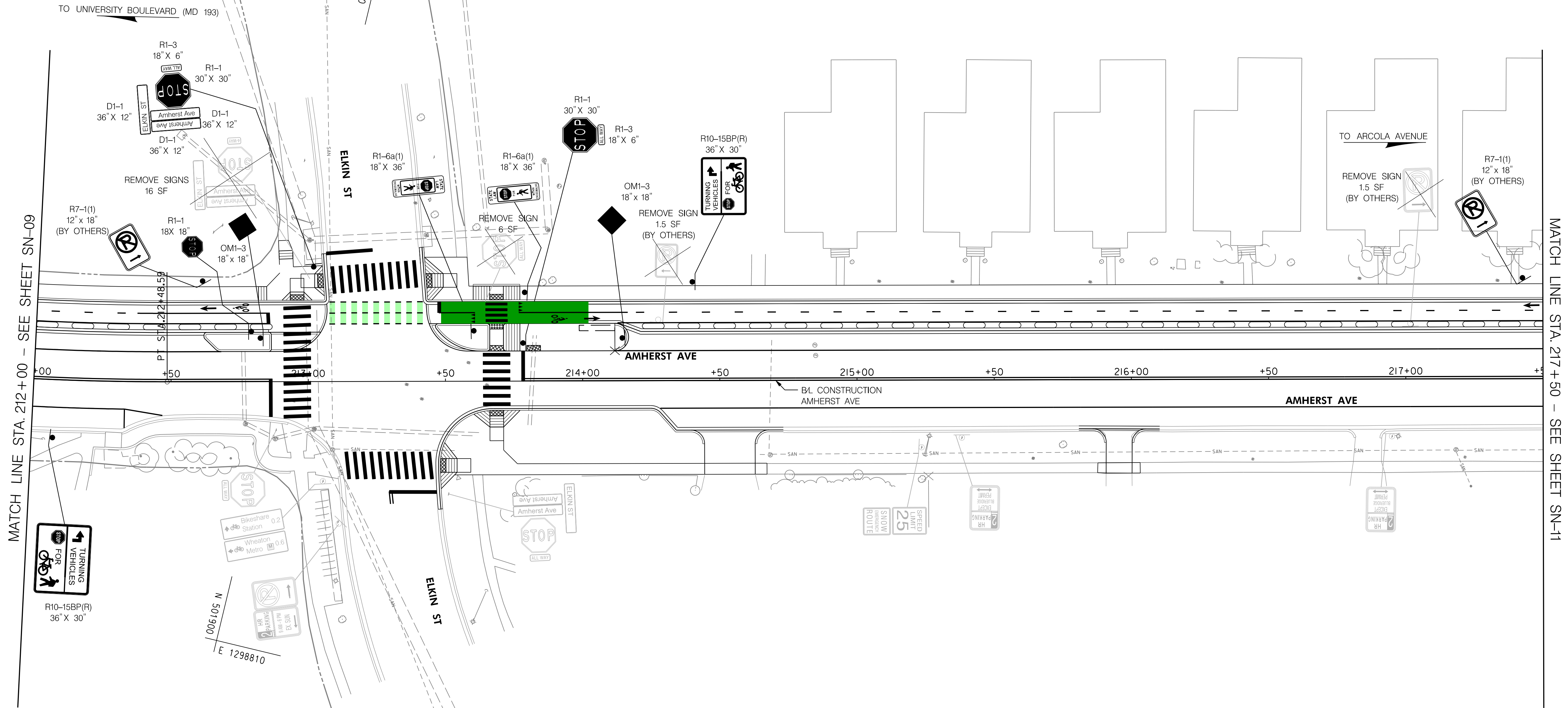
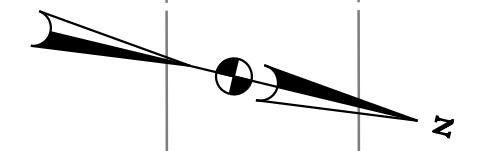
DEPARTMENT OF TRANSPORTATION
DIVISION OF TRANSPORTATION ENGINEERING
MONTGOMERY COUNTY, MARYLAND

AMHERST AVE CYCLE TRACK
SIGNING PLAN

10/9/2023 U:\2026213141\700 CADD\700 Sheet\pSN-0009_AmherstAve.dgn

SN-09

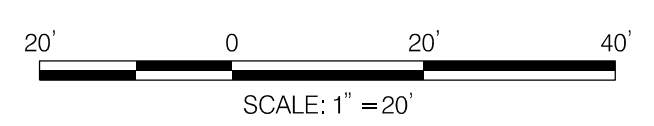
NOTE: ALL EXISTING BUS SIGNS TO BE REMOVED BY OTHERS, PROPOSED BUS SIGNS INSTALLED BY OTHERS.



MATCH LINE STA. 212+00 - SEE SHEET SN-09

MATCH LINE STA. 217+50 - SEE SHEET SN-11

- LEGEND**
- PROP. GEOMETRY
 - EX. GEOMETRY
 - EX. SIGN POST
 - PR. SIGN POST
 - ⊗ EX. SIGN TO BE REMOVED



Montgomery County, Maryland
Traffic Engineering And Operations Section APPROVED

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	DRAWING NO.:			DATE:
RECOMMENDED FOR APPROVAL				
	Chief, Design Section			Date _____
APPROVED				
	Chief, Division of Transportation Engineering			Date _____

DEPARTMENT OF TRANSPORTATION
DIVISION OF TRANSPORTATION ENGINEERING
MONTGOMERY COUNTY, MARYLAND

**AMHERST AVE CYCLE TRACK
SIGNING PLAN**

SCALE: 1"=20'

SHEET 102 of 208



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LICENSE NO: _____ EXPIRATION DATE: _____

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SN-10

NOTE: ALL EXISTING BUS SIGNS TO BE REMOVED BY OTHERS, PROPOSED BUS SIGNS INSTALLED BY OTHERS.

TO UNIVERSITY BOULEVARD (MD 193)

MATCH LINE STA. 217+50 - SEE SHEET SN-10

OMI-3
18' x 18'

R1-1
30' x 30'
STOP
Amherst Ave

REMOVE SIGNS
8.8 SF

D1-1
36' x 12'

R7-1(1)
12' x 18'
(BY OTHERS)

R10-15BP(R)
36' x 30'

REMOVE SIGN
1.5 SF
(BY OTHERS)

REMOVE SIGN
1.5 SF
(BY OTHERS)

R7-1(1)
12' x 18'
(BY OTHERS)

OMI-3
18' x 18'

R1-6a(1)
12' x 36'

R1-6a(1)
12' x 36'

REMOVE SIGN
1.5 SF
(BY OTHERS)

SPECIAL
18' x 24'
BIKES
STOP
RED

SPECIAL
12' x 18'
ADOPT
A ROAD

REMOVE SIGN
1.5 SF

OMI-3
18' x 18'

SPECIAL
18' x 18'

Montgomery County, Maryland
Traffic Engineering And Operations Section APPROVED
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- LEGEND**
- PROP. GEOMETRY
 - EX. GEOMETRY
 - EX. SIGN POST
 - PR. SIGN POST
 - ⊗ EX. SIGN TO BE REMOVED

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



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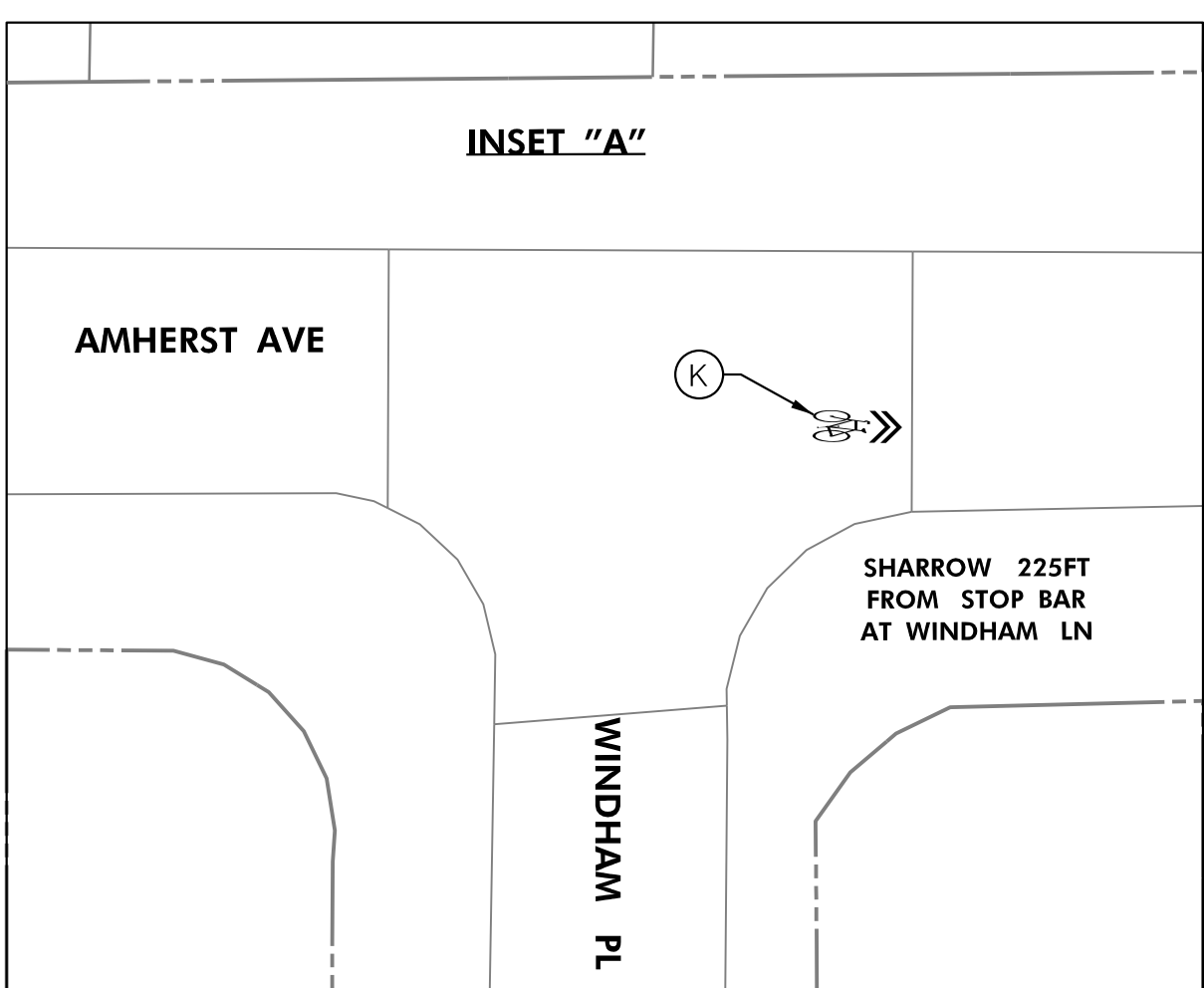
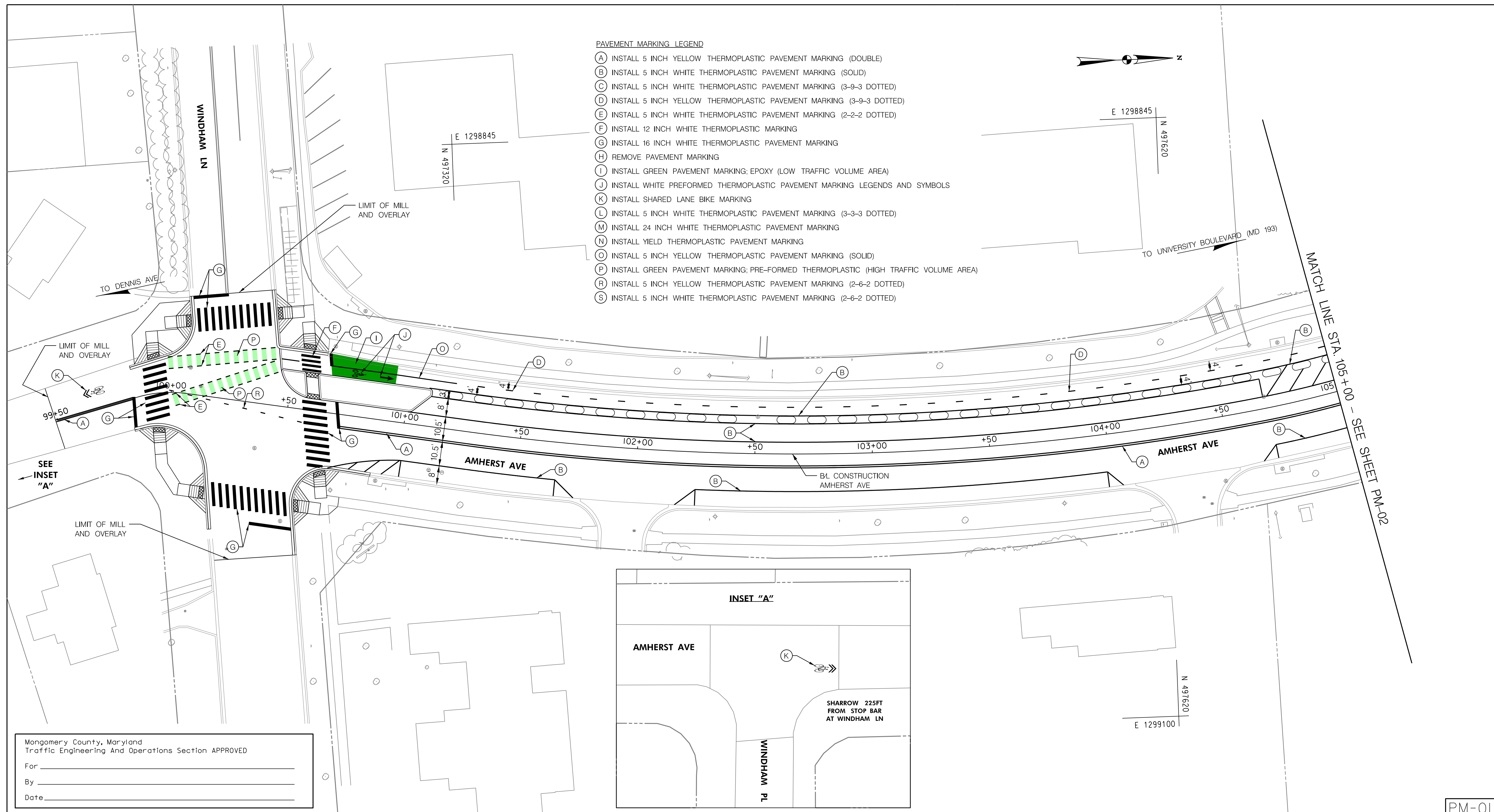
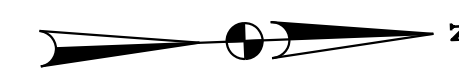
DEPARTMENT OF TRANSPORTATION
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MONTGOMERY COUNTY, MARYLAND

AMHERST AVE CYCLE TRACK
SIGNING PLAN

10/9/2023 U:\2026213141\700 CADD\700 Sheet\pSN-001-AmherstAve.dgn

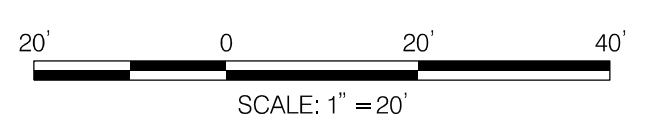
PAVEMENT MARKING LEGEND

- (A) INSTALL 5 INCH YELLOW THERMOPLASTIC PAVEMENT MARKING (DOUBLE)
- (B) INSTALL 5 INCH WHITE THERMOPLASTIC PAVEMENT MARKING (SOLID)
- (C) INSTALL 5 INCH WHITE THERMOPLASTIC PAVEMENT MARKING (3-9-3 DOTTED)
- (D) INSTALL 5 INCH YELLOW THERMOPLASTIC PAVEMENT MARKING (3-9-3 DOTTED)
- (E) INSTALL 5 INCH WHITE THERMOPLASTIC PAVEMENT MARKING (2-2-2 DOTTED)
- (F) INSTALL 12 INCH WHITE THERMOPLASTIC MARKING
- (G) INSTALL 16 INCH WHITE THERMOPLASTIC PAVEMENT MARKING
- (H) REMOVE PAVEMENT MARKING
- (I) INSTALL GREEN PAVEMENT MARKING; EPOXY (LOW TRAFFIC VOLUME AREA)
- (J) INSTALL WHITE PREFORMED THERMOPLASTIC PAVEMENT MARKING LEGENDS AND SYMBOLS
- (K) INSTALL SHARED LANE BIKE MARKING
- (L) INSTALL 5 INCH WHITE THERMOPLASTIC PAVEMENT MARKING (3-3-3 DOTTED)
- (M) INSTALL 24 INCH WHITE THERMOPLASTIC PAVEMENT MARKING
- (N) INSTALL YIELD THERMOPLASTIC PAVEMENT MARKING
- (O) INSTALL 5 INCH YELLOW THERMOPLASTIC PAVEMENT MARKING (SOLID)
- (P) INSTALL GREEN PAVEMENT MARKING; PRE-FORMED THERMOPLASTIC (HIGH TRAFFIC VOLUME AREA)
- (R) INSTALL 5 INCH YELLOW THERMOPLASTIC PAVEMENT MARKING (2-6-2 DOTTED)
- (S) INSTALL 5 INCH WHITE THERMOPLASTIC PAVEMENT MARKING (2-6-2 DOTTED)



Montgomery County, Maryland
Traffic Engineering And Operations Section APPROVED

For _____
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					Chief, Design Section	Date
APPROVED						
					Chief, Division of Transportation Engineering	Date

DEPARTMENT OF TRANSPORTATION
DIVISION OF TRANSPORTATION ENGINEERING
MONTGOMERY COUNTY, MARYLAND

AMHERST AVE CYCLE TRACK
PAVEMENT MARKING PLAN



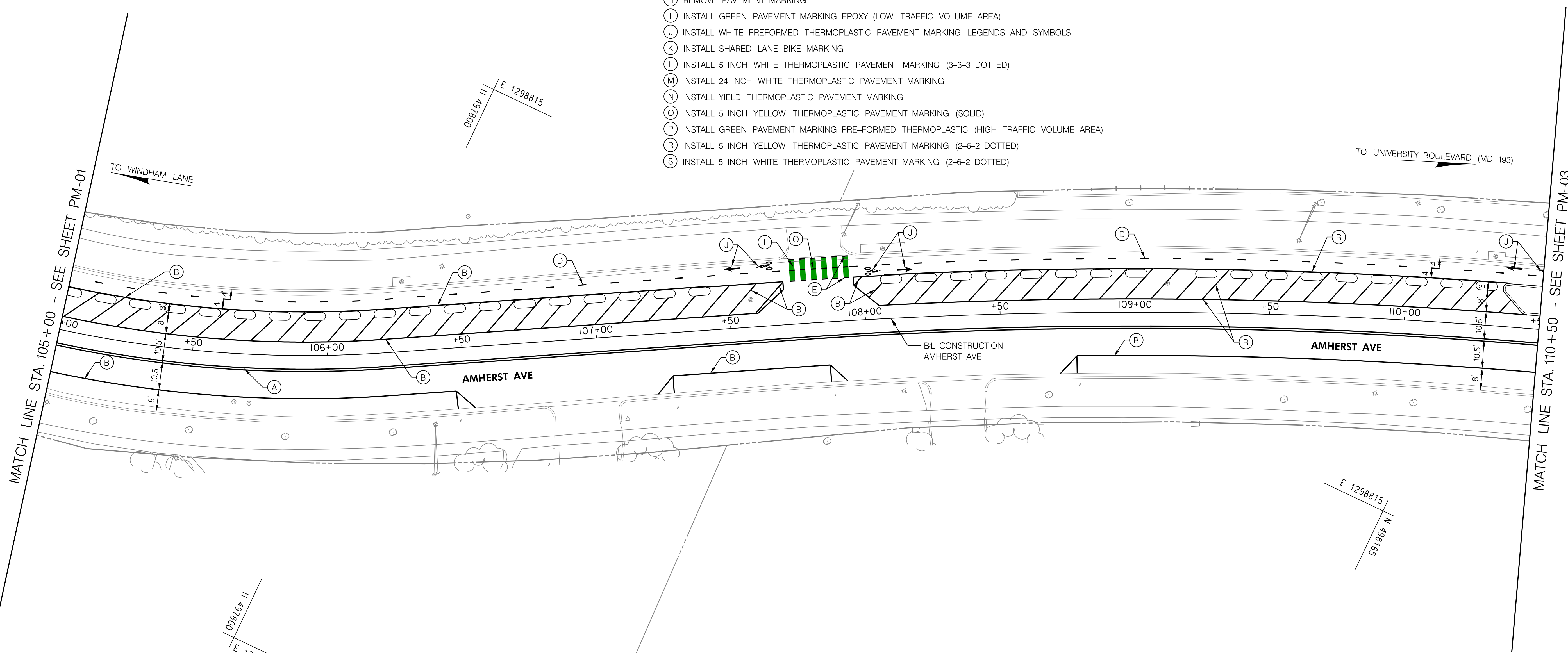
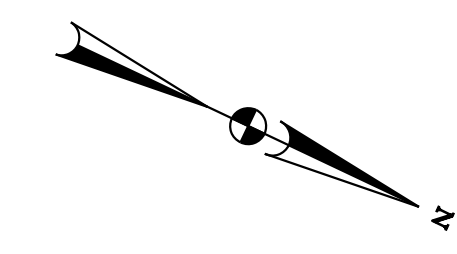
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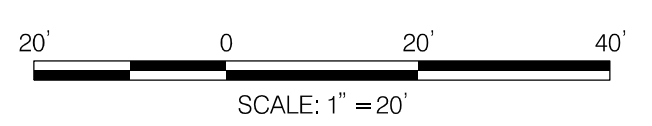
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- (S) INSTALL 5 INCH WHITE THERMOPLASTIC PAVEMENT MARKING (2-6-2 DOTTED)



Montgomery County, Maryland
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APPROVED						
					Chief, Division of Transportation Engineering	Date

DEPARTMENT OF TRANSPORTATION
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MONTGOMERY COUNTY, MARYLAND

AMHERST AVE CYCLE TRACK
PAVEMENT MARKING PLAN

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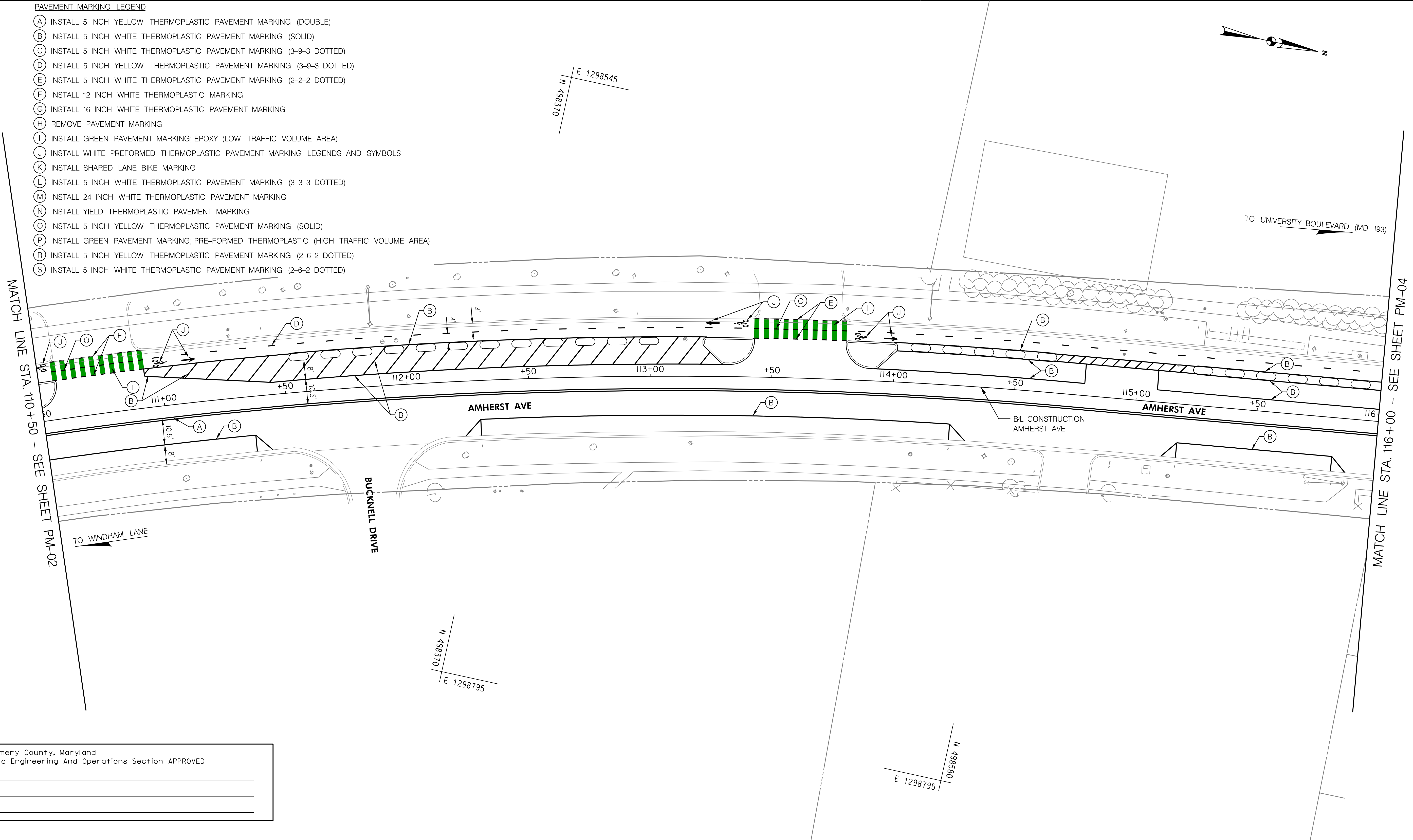
PM-02

PAVEMENT MARKING LEGEND

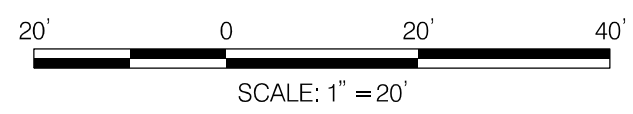
- (A) INSTALL 5 INCH YELLOW THERMOPLASTIC PAVEMENT MARKING (DOUBLE)
- (B) INSTALL 5 INCH WHITE THERMOPLASTIC PAVEMENT MARKING (SOLID)
- (C) INSTALL 5 INCH WHITE THERMOPLASTIC PAVEMENT MARKING (3-9-3 DOTTED)
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MATCH LINE STA. 110+50 - SEE SHEET PM-02

MATCH LINE STA. 116+00 - SEE SHEET PM-04



Montgomery County, Maryland
 Traffic Engineering And Operations Section APPROVED
 For _____
 By _____
 Date _____



NO.	REVISION	BY	APP'D	DATE

DESIGNED BY: JRGB DATE: OCTOBER, 2023
 DRAWN BY: UMK DATE: OCTOBER, 2023
 CHECKED BY: SJZ DATE: OCTOBER, 2023
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 Chief, Design Section _____ Date _____
 APPROVED
 Chief, Division of Transportation Engineering _____ Date _____

DEPARTMENT OF TRANSPORTATION
 DIVISION OF TRANSPORTATION ENGINEERING
 MONTGOMERY COUNTY, MARYLAND

AMHERST AVE CYCLE TRACK
 PAVEMENT MARKING PLAN



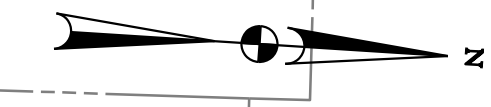
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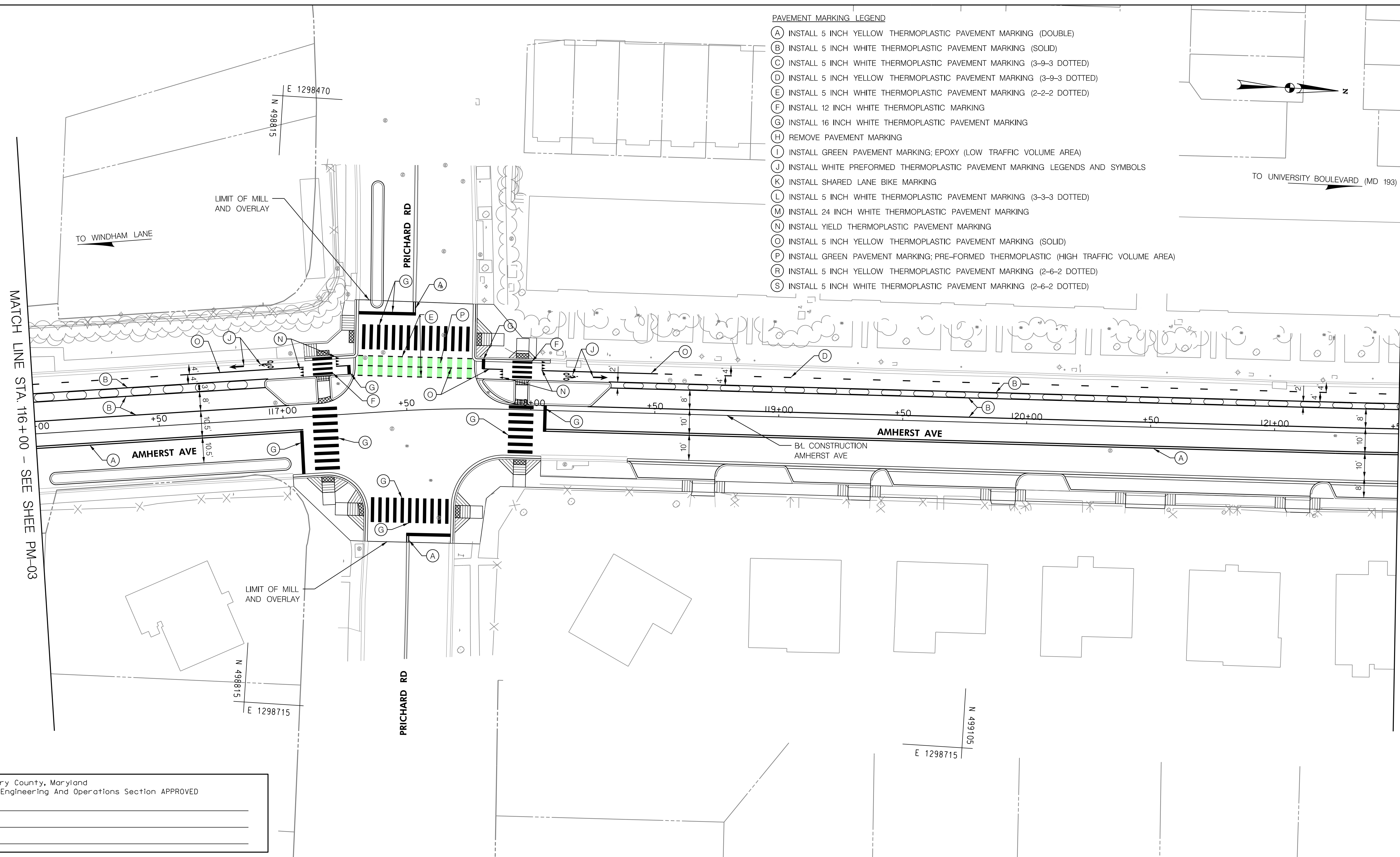
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TO UNIVERSITY BOULEVARD (MD 193)

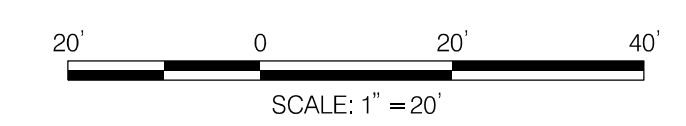


MATCH LINE STA. 116+00 - SEE SHEET PM-03

MATCH LINE STA. 121+50 - SEE SHEET PM-05

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DEPARTMENT OF TRANSPORTATION
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MONTGOMERY COUNTY, MARYLAND

AMHERST AVE CYCLE TRACK
PAVEMENT MARKING PLAN

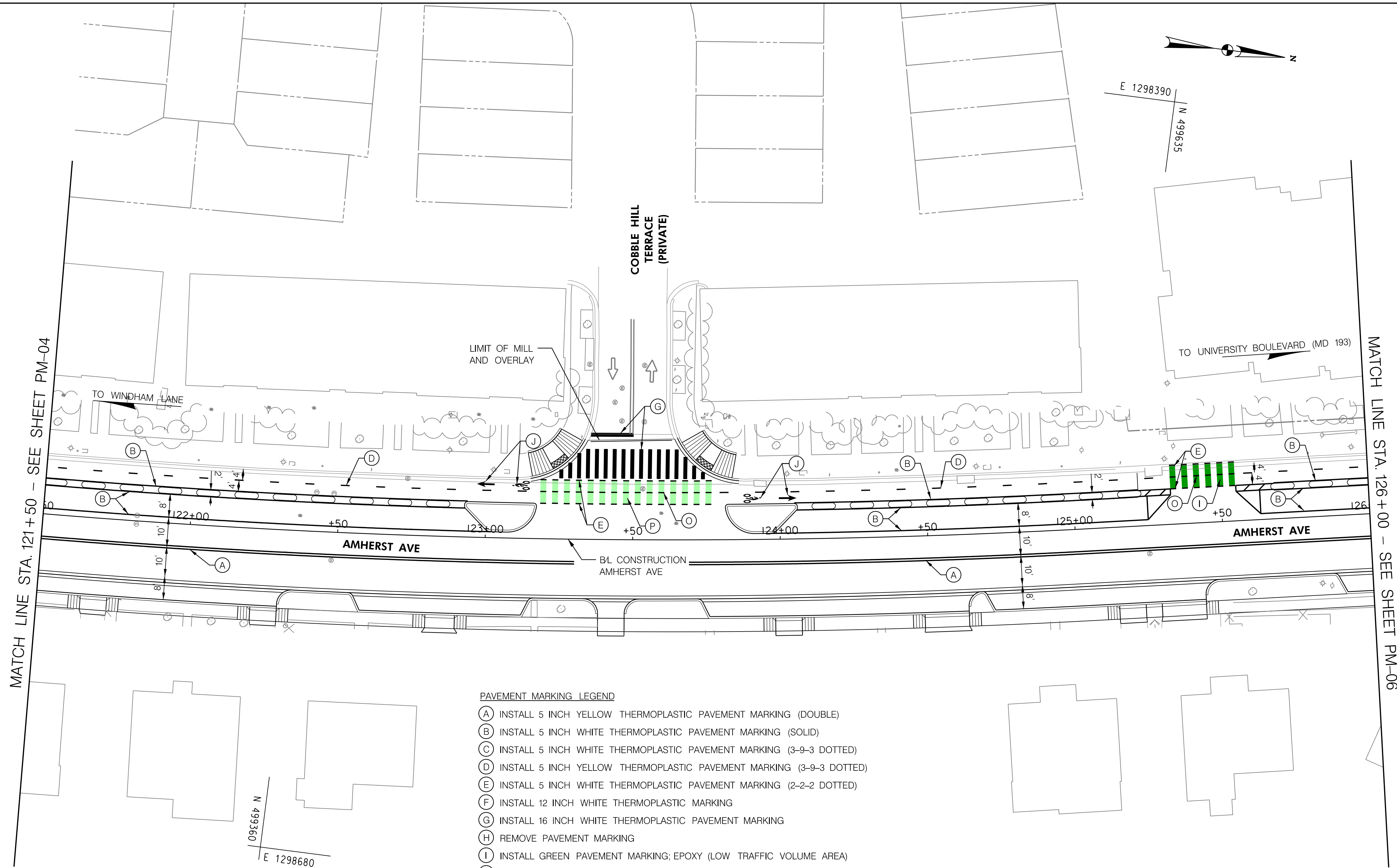
SCALE: 1"=20' SHEET 107 of 208



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DEPARTMENT OF TRANSPORTATION
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MONTGOMERY COUNTY, MARYLAND

AMHERST AVE CYCLE TRACK
 PAVEMENT MARKING PLAN

SCALE: 1"=20'

SHEET 108 of 208



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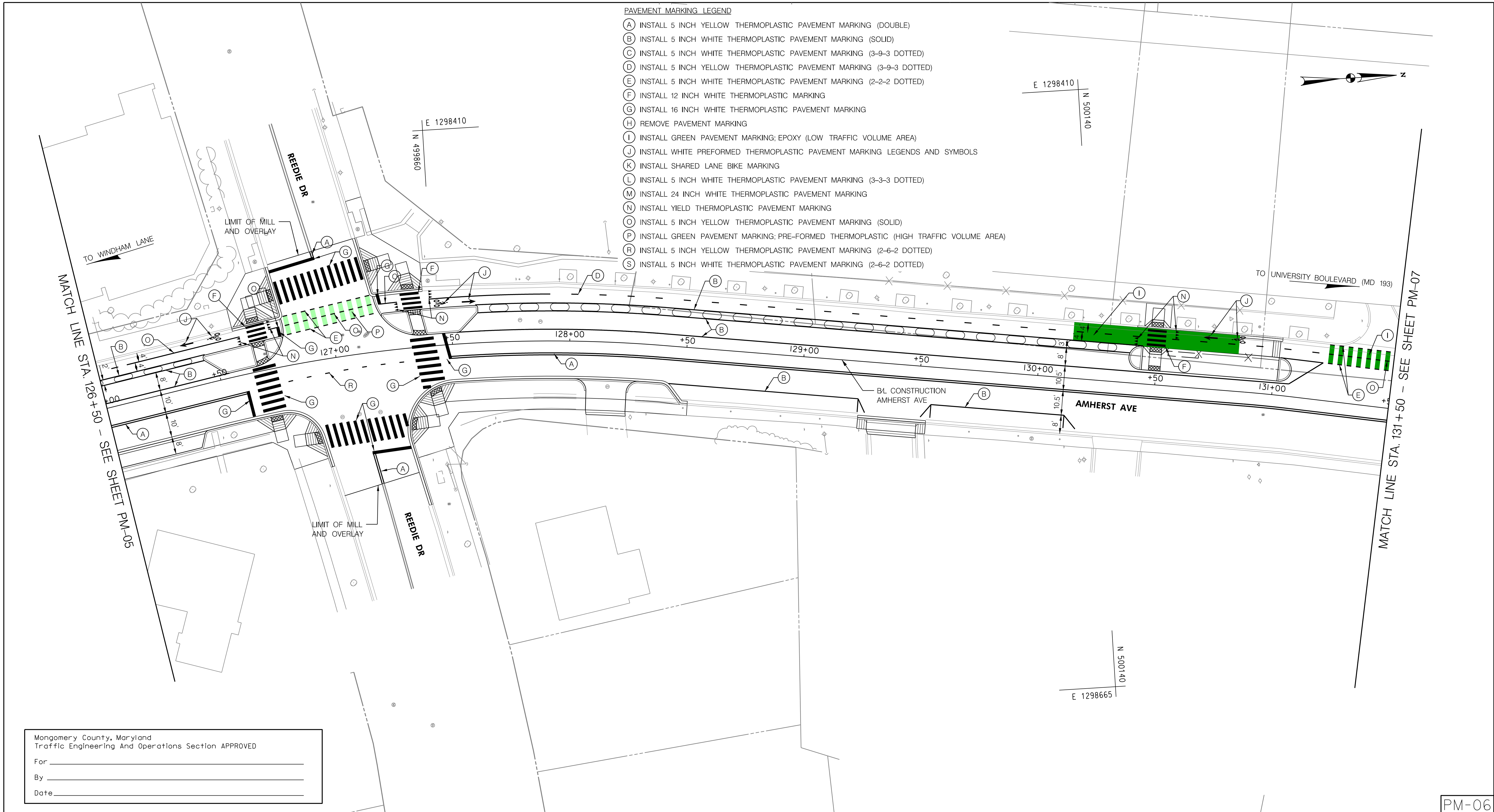
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PM-05

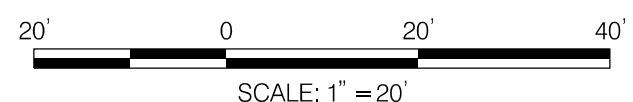
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Montgomery County, Maryland
 Traffic Engineering And Operations Section APPROVED

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DEPARTMENT OF TRANSPORTATION
 DIVISION OF TRANSPORTATION ENGINEERING
 MONTGOMERY COUNTY, MARYLAND

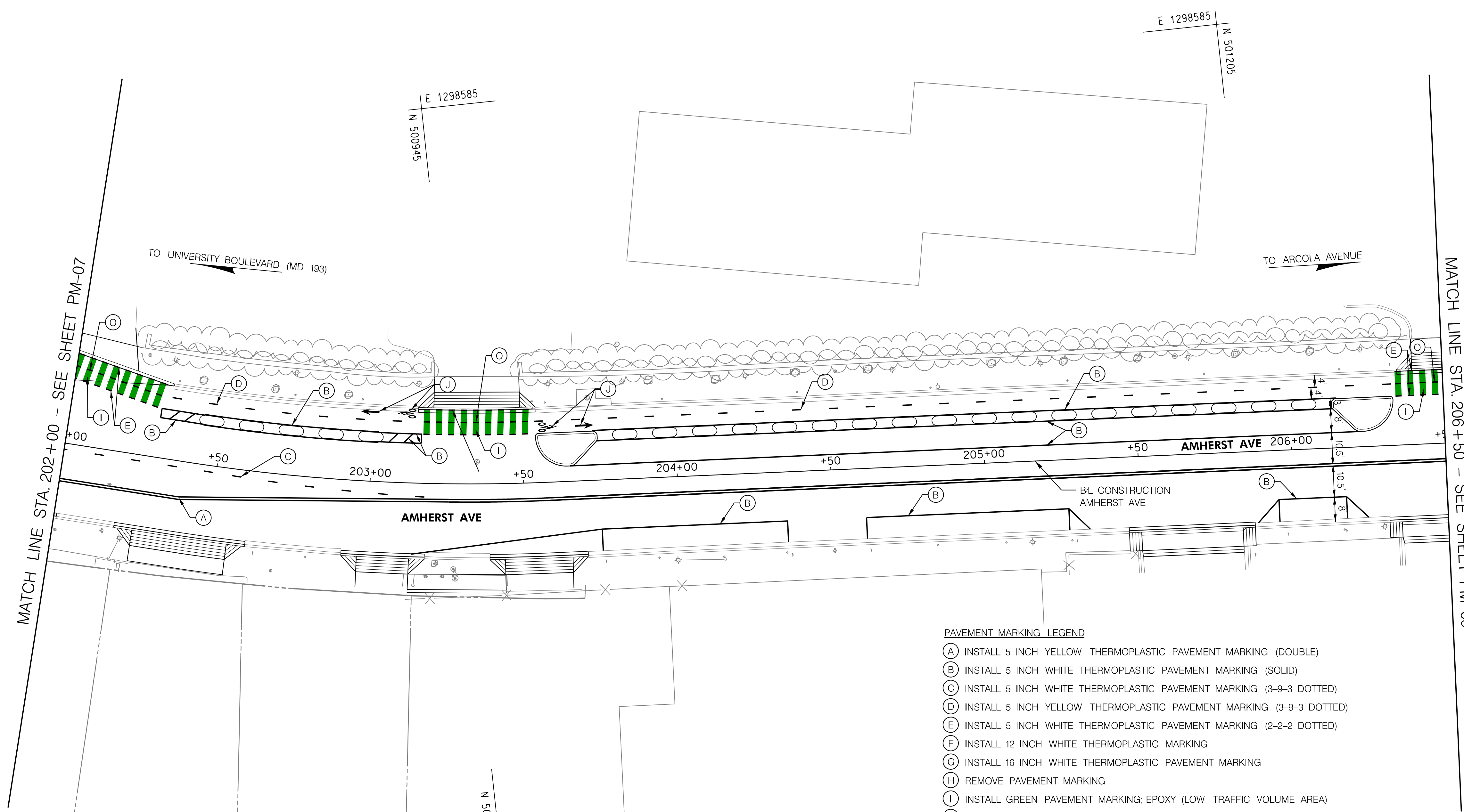
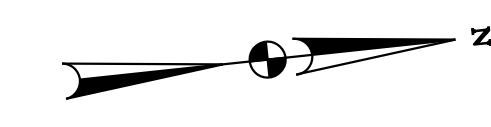
AMHERST AVE CYCLE TRACK
 PAVEMENT MARKING PLAN



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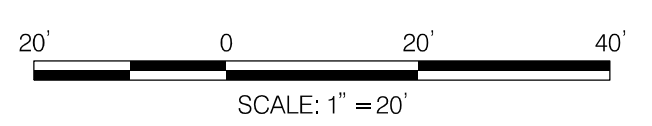


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Chief, Division of Transportation Engineering _____	Date _____

DEPARTMENT OF TRANSPORTATION
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MONTGOMERY COUNTY, MARYLAND

AMHERST AVE CYCLE TRACK
PAVEMENT MARKING PLAN

SCALE: 1"=20'

SHEET III of 208

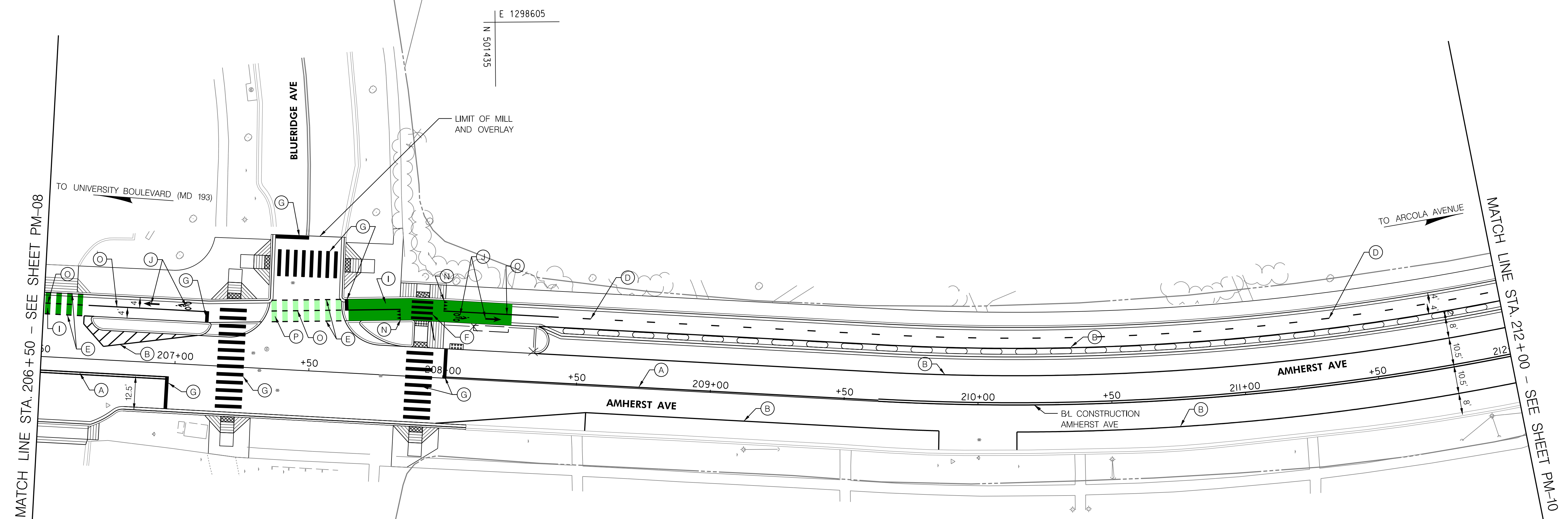
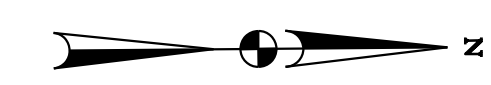


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PM-08

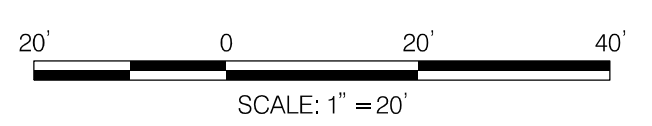


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DEPARTMENT OF TRANSPORTATION
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MONTGOMERY COUNTY, MARYLAND

AMHERST AVE CYCLE TRACK
PAVEMENT MARKING PLAN

SCALE: 1"=20'

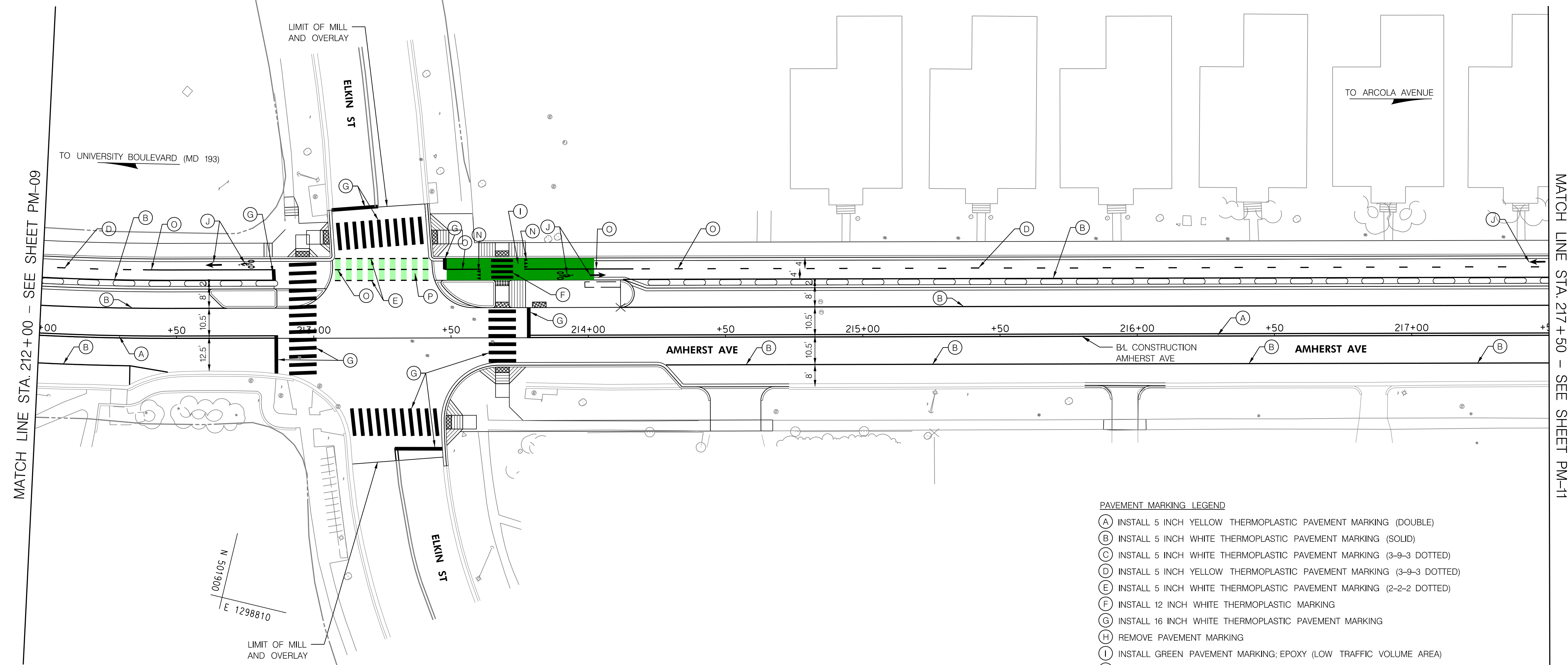
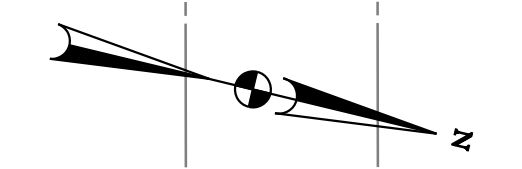
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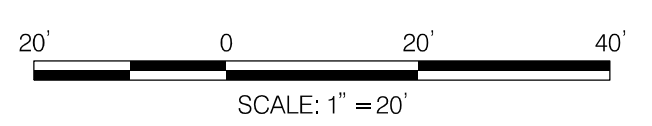


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DEPARTMENT OF TRANSPORTATION
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MONTGOMERY COUNTY, MARYLAND

AMHERST AVE CYCLE TRACK
 PAVEMENT MARKING PLAN



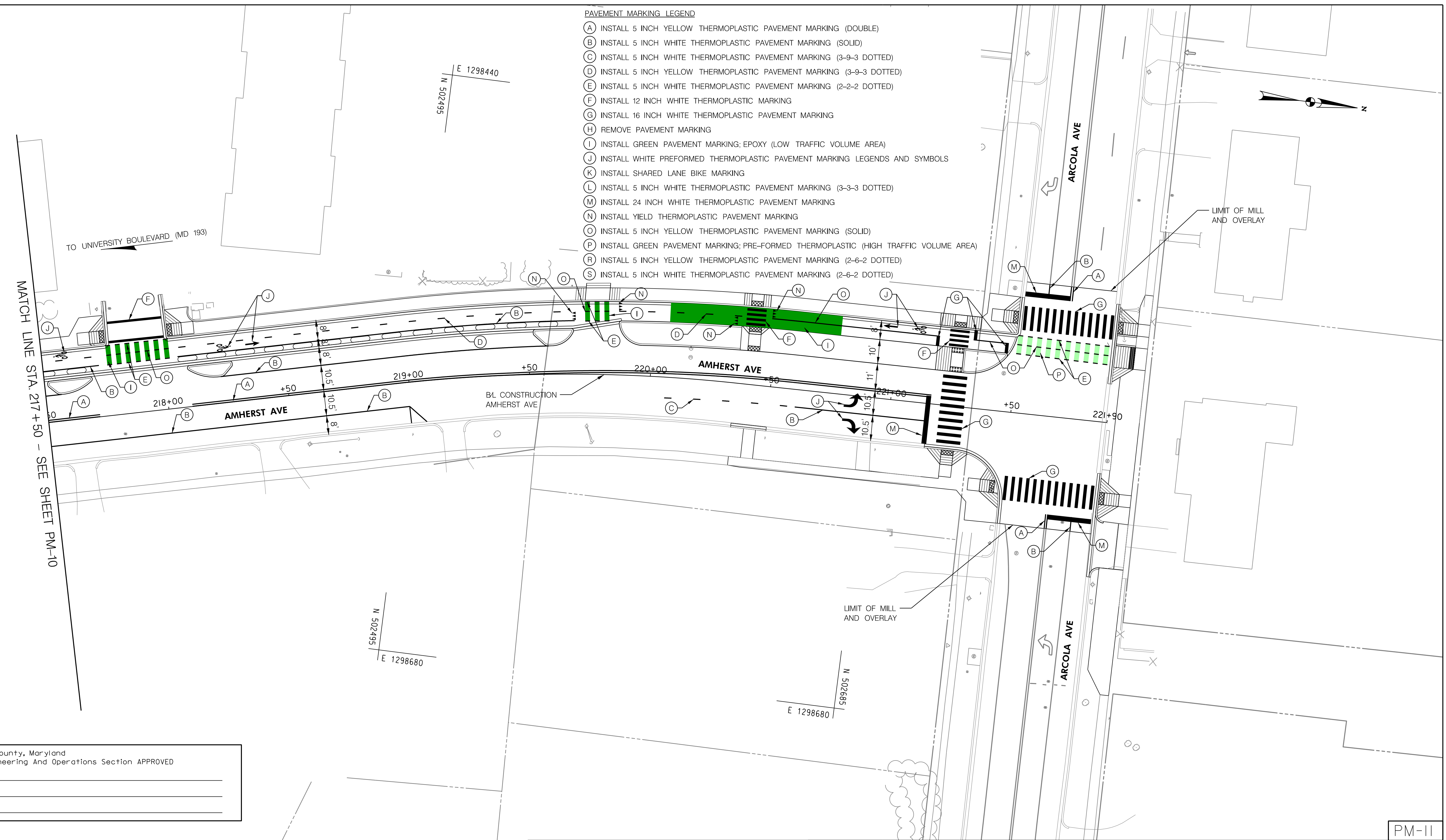
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- (P) INSTALL GREEN PAVEMENT MARKING; PRE-FORMED THERMOPLASTIC (HIGH TRAFFIC VOLUME AREA)
- (R) INSTALL 5 INCH YELLOW THERMOPLASTIC PAVEMENT MARKING (2-6-2 DOTTED)
- (S) INSTALL 5 INCH WHITE THERMOPLASTIC PAVEMENT MARKING (2-6-2 DOTTED)



MATCH LINE STA. 217+50 - SEE SHEET PM-10

TO UNIVERSITY BOULEVARD (MD 193)

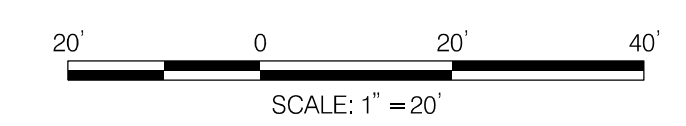
E 1298440
N 502495

E 1298680
N 502495

E 1298680
N 502685

Montgomery County, Maryland
Traffic Engineering And Operations Section APPROVED

For _____
By _____
Date _____



NO.	REVISION	BY	APP'D	DATE	DESIGNED BY: JRGB	DATE: OCTOBER, 2023
					DRAWN BY: UMK	DATE: OCTOBER, 2023
					CHECKED BY: SJZ	DATE: OCTOBER, 2023
					DRAWING NO.:	DATE:
RECOMMENDED FOR APPROVAL						
					Chief, Design Section	Date
APPROVED						
					Chief, Division of Transportation Engineering	Date

DEPARTMENT OF TRANSPORTATION
DIVISION OF TRANSPORTATION ENGINEERING
MONTGOMERY COUNTY, MARYLAND

AMHERST AVE CYCLE TRACK
PAVEMENT MARKING PLAN

SCALE: 1"=20'

SHEET 114 of 208



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

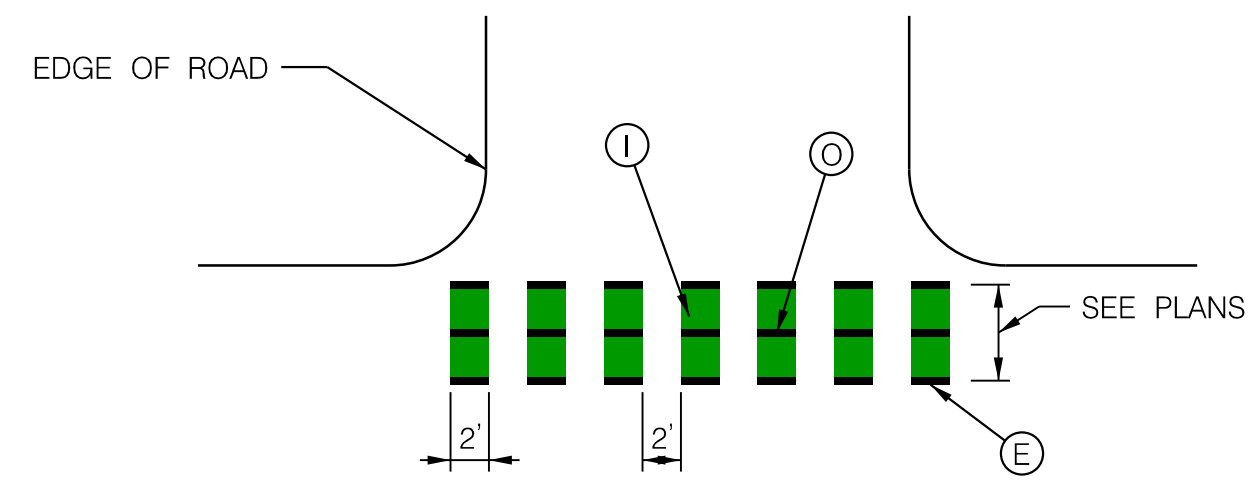
PROFESSIONAL CERTIFICATION:
I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND.
LICENSE NO: _____ EXPIRATION DATE: _____

10/9/2023 U:\2026213141\700 CADD\700 Sheet\pM-001\AmherstAve.dgn

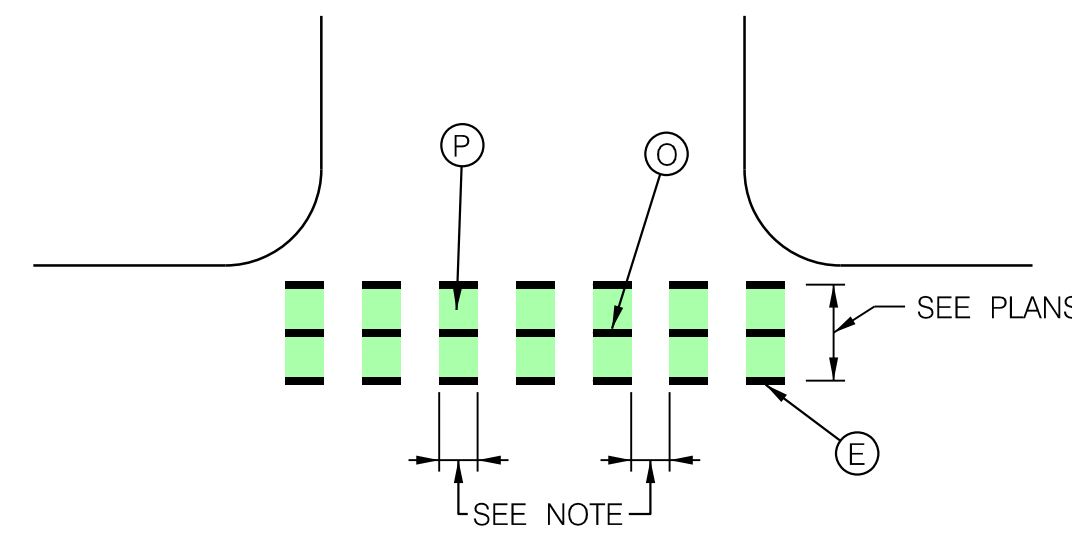
PM-11

PAVEMENT MARKING LEGEND

- (A) INSTALL 5 INCH YELLOW THERMOPLASTIC PAVEMENT MARKING (DOUBLE)
- (B) INSTALL 5 INCH WHITE THERMOPLASTIC PAVEMENT MARKING (SOLID)
- (C) INSTALL 5 INCH WHITE THERMOPLASTIC PAVEMENT MARKING (3-9-3 DOTTED)
- (D) INSTALL 5 INCH YELLOW THERMOPLASTIC PAVEMENT MARKING (3-9-3 DOTTED)
- (E) INSTALL 5 INCH WHITE THERMOPLASTIC PAVEMENT MARKING (2-2-2 DOTTED)
- (F) INSTALL 12 INCH WHITE THERMOPLASTIC MARKING
- (G) INSTALL 16 INCH WHITE THERMOPLASTIC PAVEMENT MARKING
- (H) REMOVE PAVEMENT MARKING
- (I) INSTALL GREEN PAVEMENT MARKING; EPOXY (LOW TRAFFIC VOLUME AREA)
- (J) INSTALL WHITE PREFORMED THERMOPLASTIC PAVEMENT MARKING LEGENDS AND SYMBOLS
- (K) INSTALL SHARED LANE BIKE MARKING
- (L) INSTALL 5 INCH WHITE THERMOPLASTIC PAVEMENT MARKING (3-3-3 DOTTED)
- (M) INSTALL 24 INCH WHITE THERMOPLASTIC PAVEMENT MARKING
- (N) INSTALL YIELD THERMOPLASTIC PAVEMENT MARKING
- (O) INSTALL 5 INCH YELLOW THERMOPLASTIC PAVEMENT MARKING (SOLID)
- (P) INSTALL GREEN PAVEMENT MARKING; PRE-FORMED THERMOPLASTIC (HIGH TRAFFIC VOLUME AREA)
- (R) INSTALL 5 INCH YELLOW THERMOPLASTIC PAVEMENT MARKING (2-6-2 DOTTED)
- (S) INSTALL 5 INCH WHITE THERMOPLASTIC PAVEMENT MARKING (2-6-2 DOTTED)

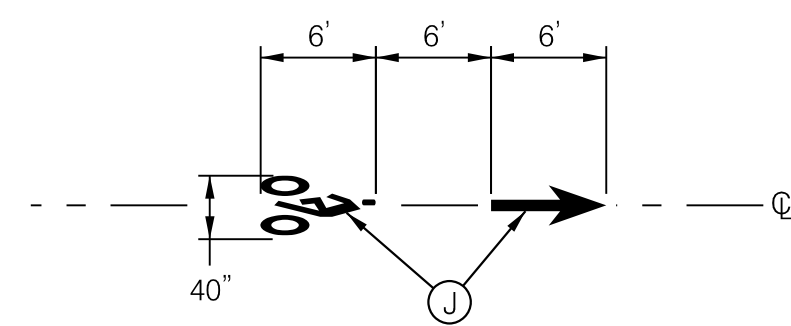


TYPICAL CONFLICT ZONE DETAIL AT DRIVEWAYS

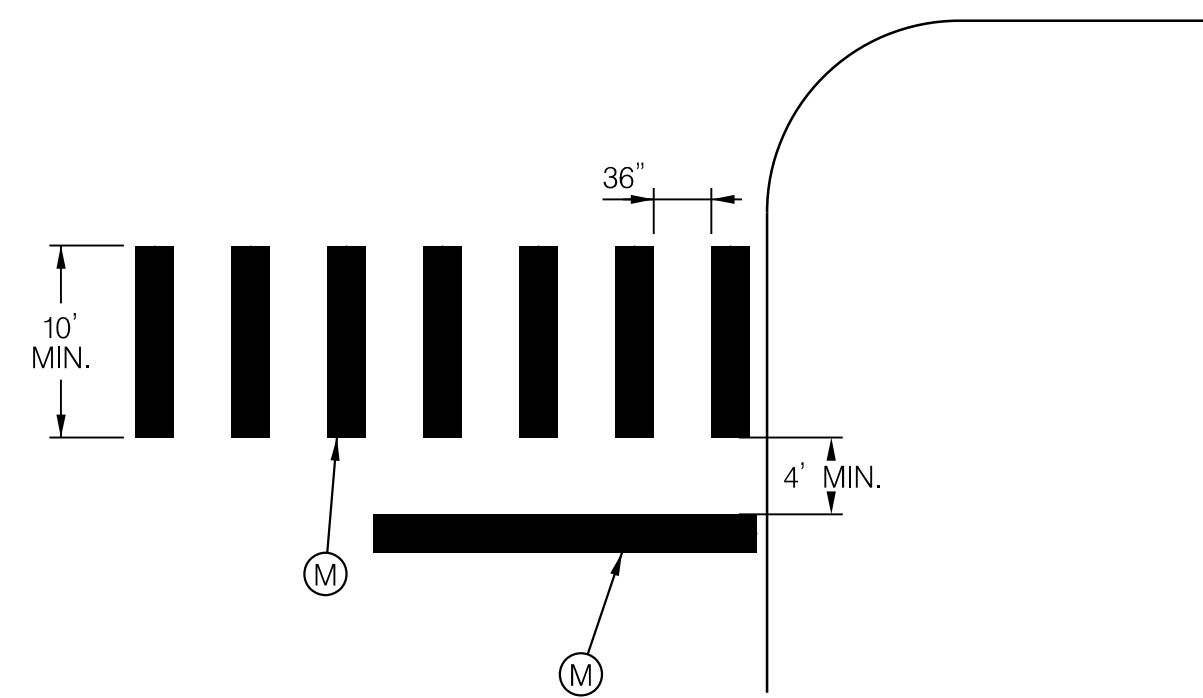


TYPICAL CONFLICT ZONE DETAIL AT ROADWAYS

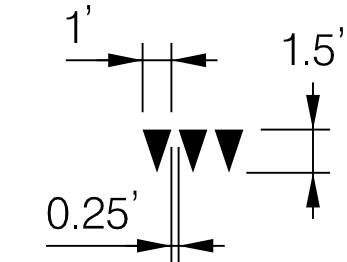
AT MCDOT ROADWAYS, SPACING IS 2-2
AT MDOT SHA ROADWAYS, SPACING IS 3-3



BIKE LANE SYMBOL DETAIL

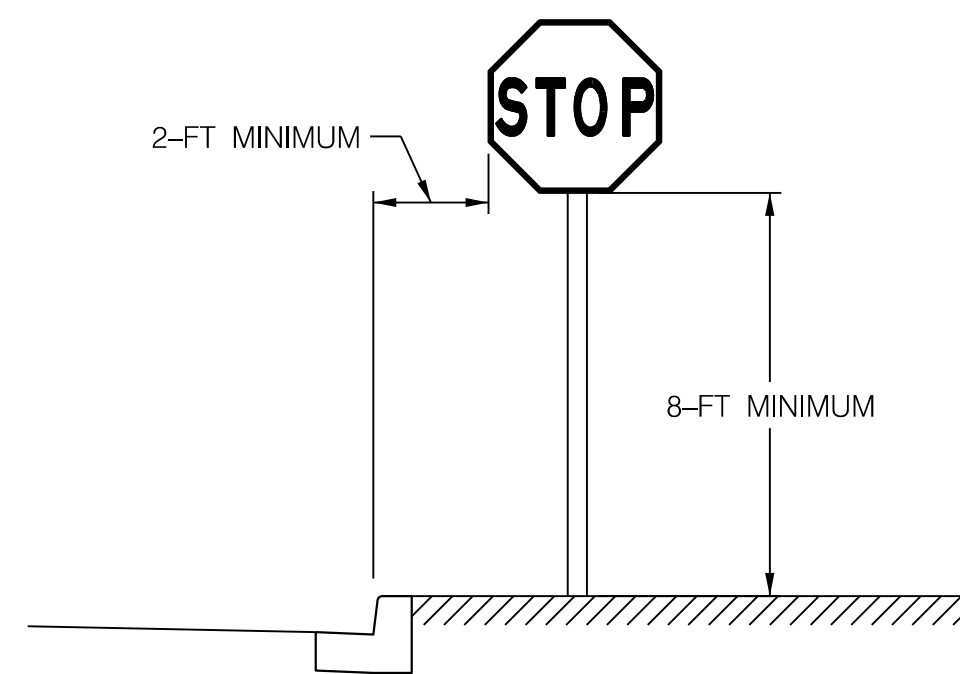


TYPICAL CROSSWALK DETAIL - MDOT SHA

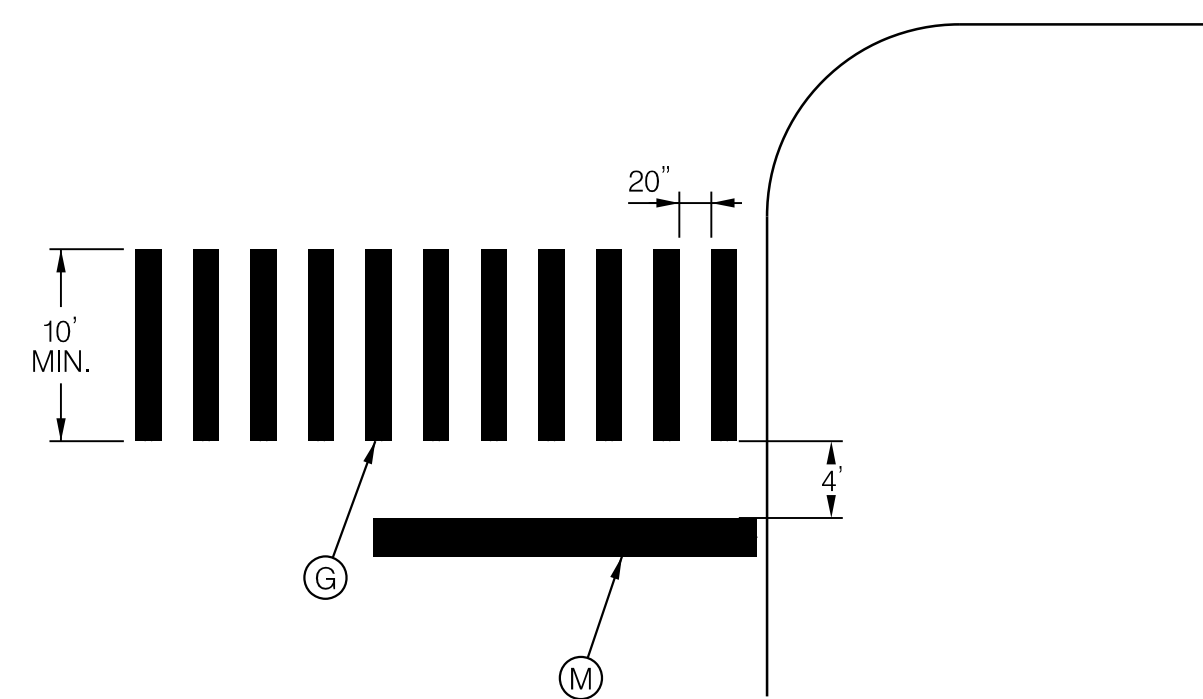


DIRECTION OF TRAVEL

YIELD MARKING DETAIL



POST MOUNTED SIGN DETAIL



TYPICAL SIGNALIZED CROSSWALK DETAIL - MCDOT

NOTE: STOP BARS AT UNSIGNALIZED CROSSWALK SHALL BE 16" FOR MCDOT

Montgomery County, Maryland
Traffic Engineering And Operations Section APPROVED
For _____
By _____
Date _____

PM-12

NO.	REVISION	BY	APP'D	DATE	DESIGNED BY: JRGB	DATE: OCTOBER, 2023
					DRAWN BY: UMK	DATE: OCTOBER, 2023
					CHECKED BY: SJZ	DATE: OCTOBER, 2023
					DRAWING NO.:	DATE:
					RECOMMENDED FOR APPROVAL	
					Chief, Design Section	Date
					APPROVED	
					Chief, Division of Transportation Engineering	Date

DEPARTMENT OF TRANSPORTATION
DIVISION OF TRANSPORTATION ENGINEERING
MONTGOMERY COUNTY, MARYLAND

AMHERST AVE CYCLE TRACK
PAVEMENT MARKING DETAILS

NOT TO SCALE

SHEET 115 of 208

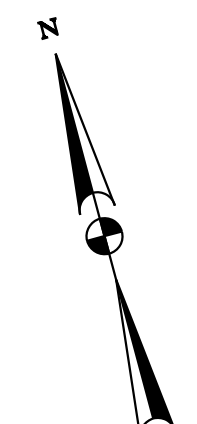
10/9/2023 U:\202621314\700 CADD\700 Sheet\pM-0012_AmherstAve.dgn

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: _____

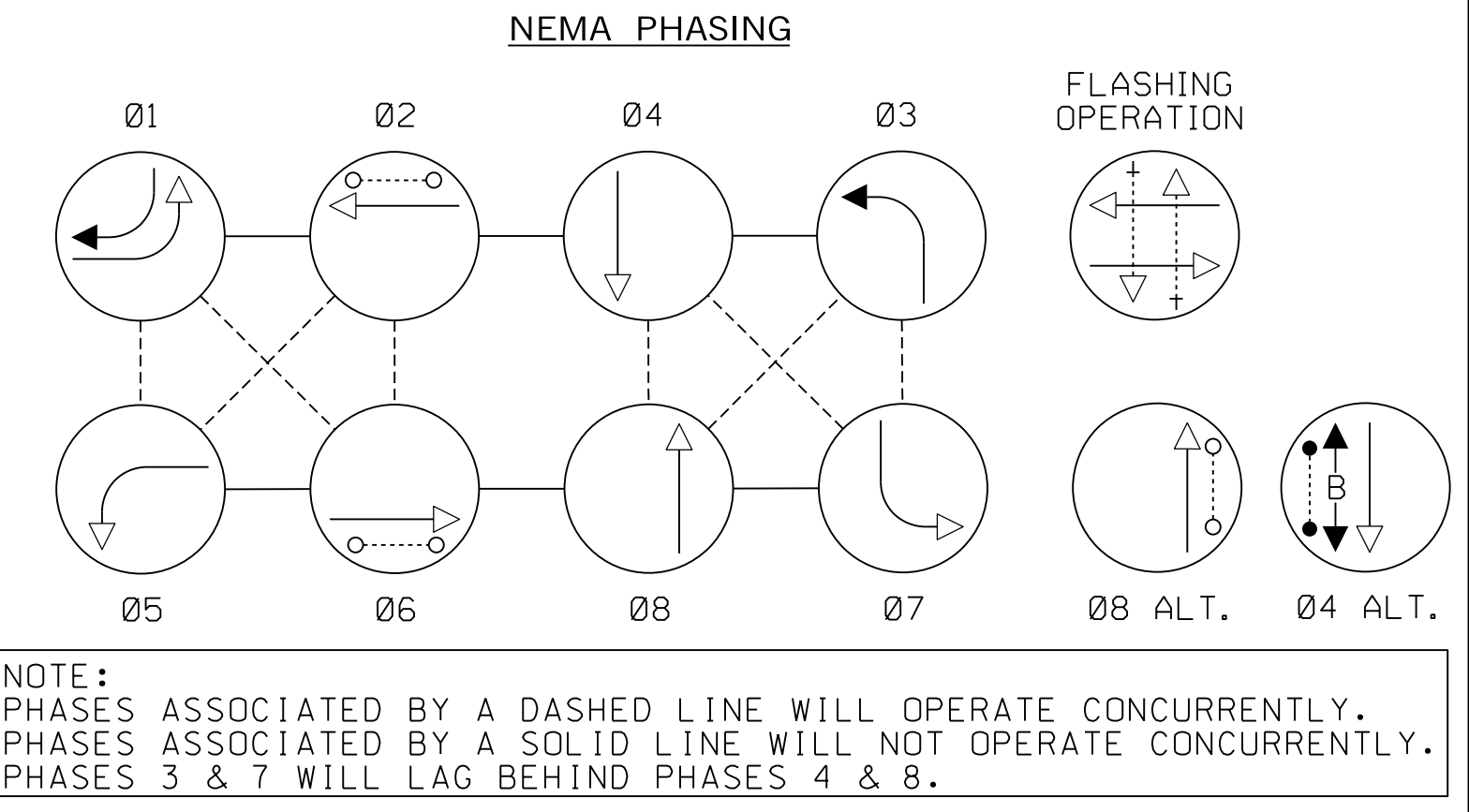
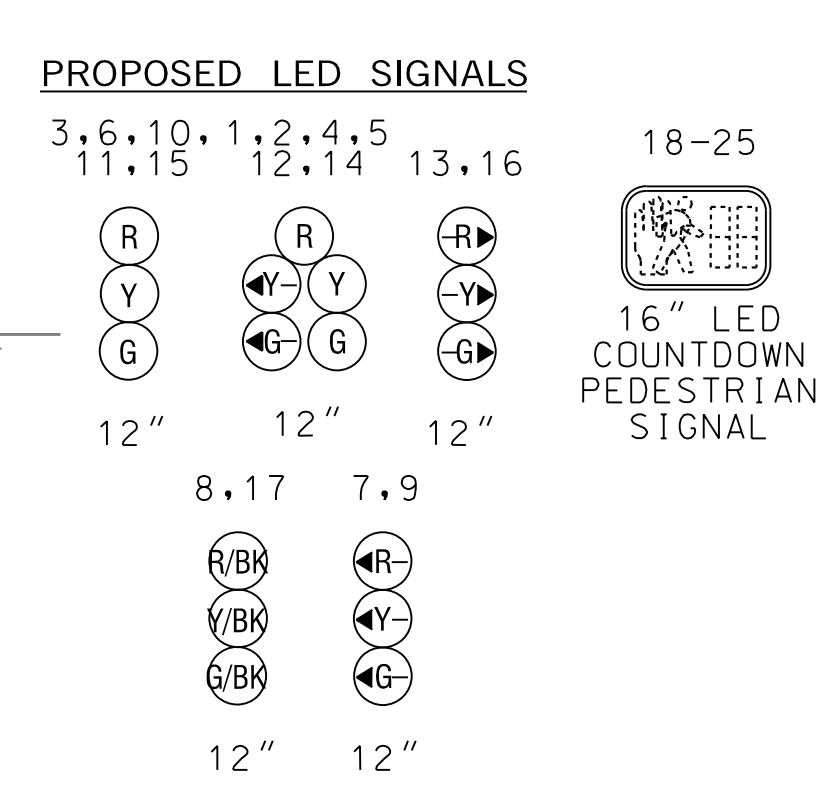
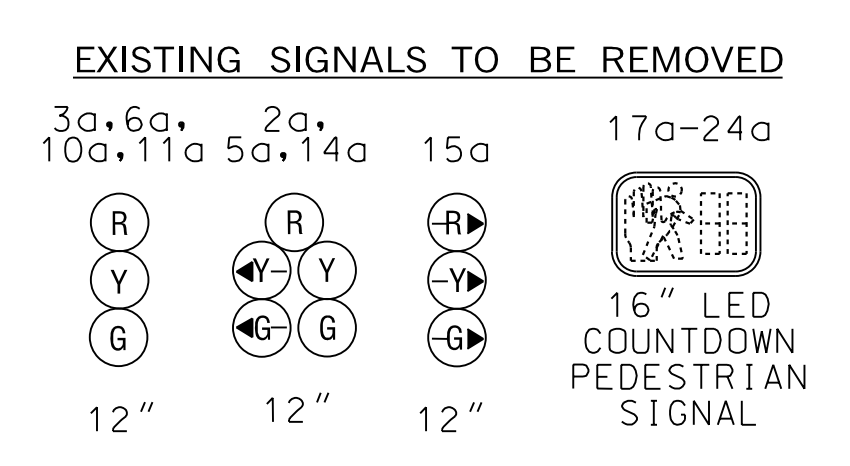
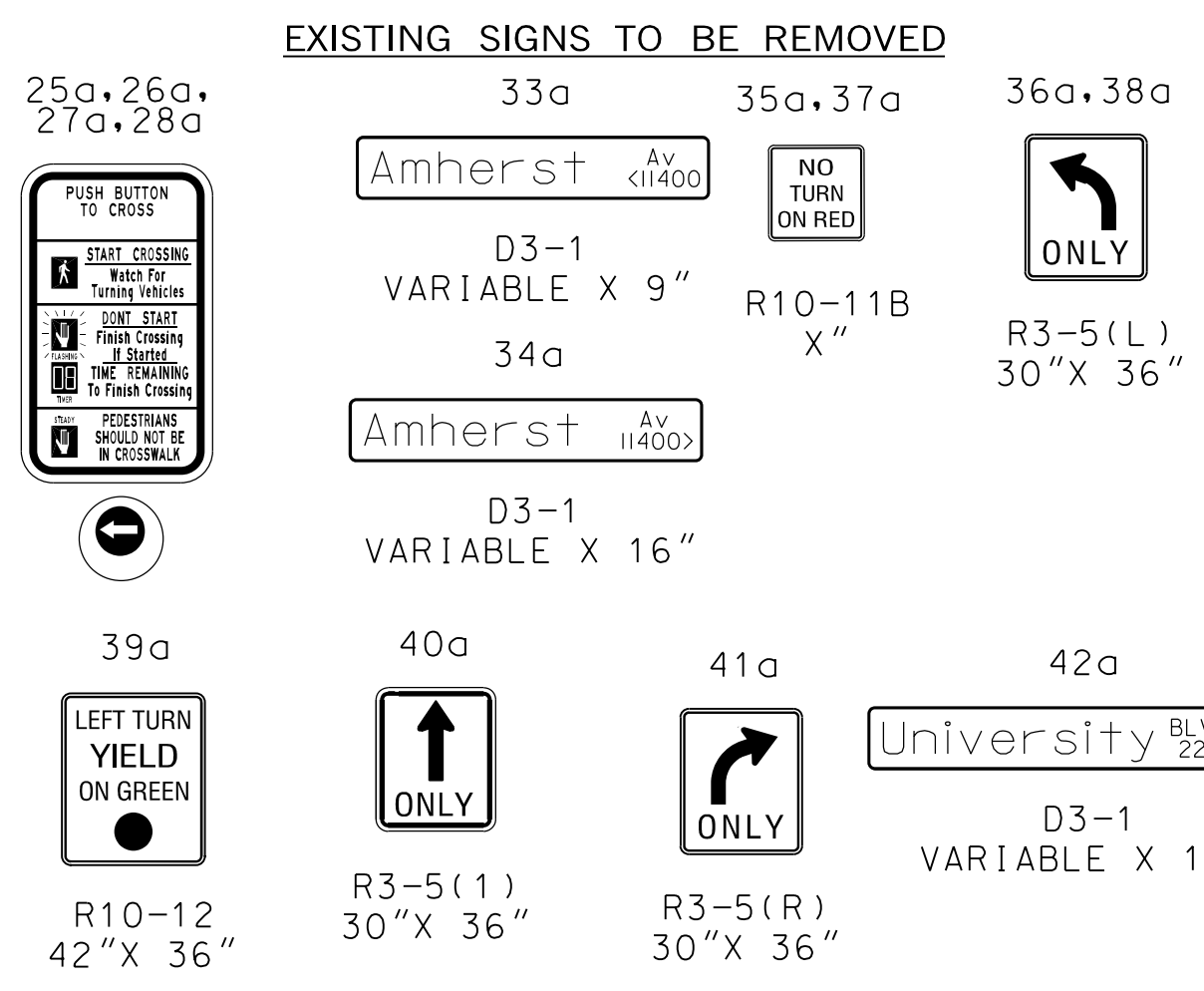


810 Gleneagles Court, Suite 300
Baltimore, MD 21286
www.stantec.com





AMHERST AVENUE IS ASSUMED TO RUN IN A NORTH-SOUTH DIRECTION



CONSTRUCTION DETAILS

- A. INSTALL CONCRETE FOUNDATION WITH A 27 FT. STEEL POLE WITH A 38 FT. MAST ARM WITH SIGNAL HEADS, SIGNS, AND VIDEO DETECTION CAMERA ON A 5 FOOT EXTENSION POLE. (NOTE: TWO 3 IN. PVC SCHEDULE 80 CONDUIT BENDS).
- B. INSTALL 10' PEDESTAL POLE (MD 818.16-01), WITH BREAKAWAY COUPLINGS MODIFIED BASE (MD 801.01-01), COUNTDOWN PEDESTRIAN SIGNALS, AUDIBLE TACTILE PUSHBUTTON AND SIGN. (NOTE: ONE 2 IN. PVC SCHEDULE 80 CONDUIT BEND).
- C. INSTALL TWO-3 IN. PVC SCHEDULE 80 ELECTRICAL CONDUITS - TRENCHED
- D. INSTALL THREE-4 IN. PVC SCHEDULE 80 ELECTRICAL CONDUITS - TRENCHED.

TO MD 97

WB MD 193 (UNIVERSITY BLVD)

EB MD 193 (UNIVERSITY BLVD)

GENERAL NOTES

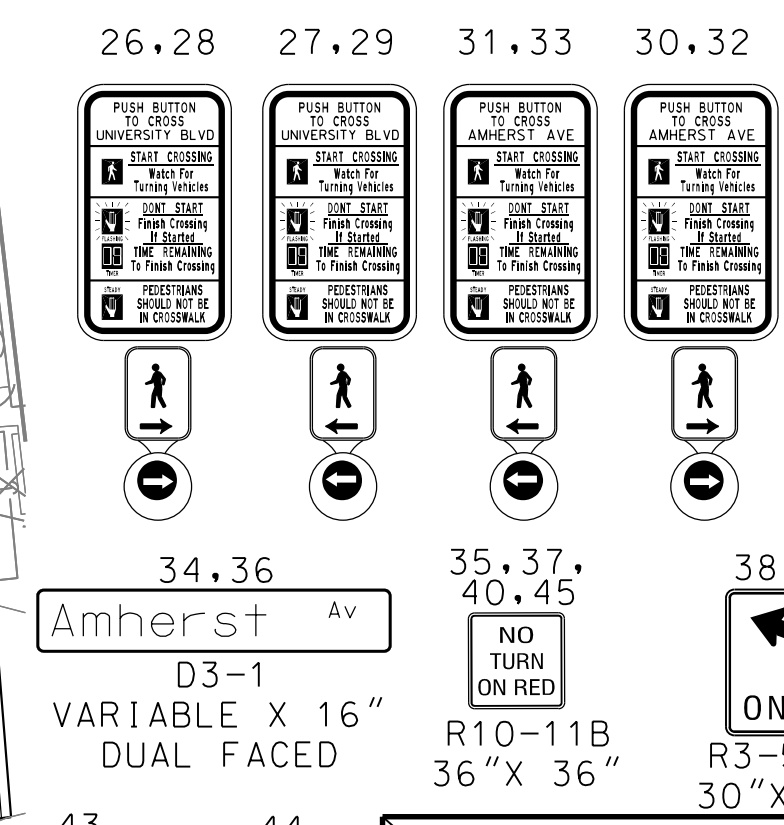
- VIDEO CAMERA LOCATION / ALIGNING SHALL BE COORDINATED WITH THE SHA ENGINEER.
- THE CONTRACTOR SHALL VERIFY ALL PROPOSED POLE AND CABINET LOCATIONS PRIOR TO INSTALLATION.
- FOR FINAL PAVEMENT MARKINGS REFER TO THE PAVEMENT MARKING PLANS, OTHER THAN THOSE DETAILED ON THE PLAN. ALL PAVEMENT MARKINGS SHALL BE INSTALLED IN ACCORDANCE WITH MSHA STANDARDS.
- ALL EXISTING TRAFFIC SIGNAL EQUIPMENT REMOVED SHALL BECOME THE PROPERTY OF THE SIGNAL CONTRACTOR UPON COMPLETION OF THE NEW SIGNAL.
- ALL PROPOSED LUMINAIRES SHALL BE SUPPLIED WITH A PHOTOCCELL.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR TERMINATING ALL SIGNAL CABLE TO THE APPROPRIATE TERMINALS AND PROPERLY LABEL EACH CABLE.
- THE CONTRACTOR SHALL VERIFY ALL UNDERGROUND UTILITIES PRIOR TO INSTALLING PROPOSED SIGNAL EQUIPMENT. IF ANY UTILITY CONFLICTS SHOULD ARISE THE CONTRACTOR SHALL CONTACT THE PROJECT ENGINEER.
- ALL TRAFFIC SIGNAL FOUNDATIONS SHALL BE INSTALLED AT THE FINAL SIDEWALK OR CURB GRADE FOR CLOSED SECTIONS, HIGHEST ROADWAY PROFILE GRADE FOR OPEN SECTIONS, TO MEET CLEARANCES AS SPECIFIED IN MD 816.03, MD 818.01, MD 818.02, MD 818.04. THE CONTRACTOR SHALL VERIFY ULTIMATE GRADES PRIOR TO THE INSTALLATION OF ALL SIGNAL EQUIPMENT.

SHA TRACKING NO. 19APM0015XX
 PLANS EXPIRE 1 YEAR FROM DATE OF APPROVAL LETTER
 IF CONSTRUCTION OF SIGNAL HAS NOT STARTED WITHIN 1 YEAR. SG-01

- E. INSTALL 4 IN. PVC SCHEDULE 80 ELECTRICAL CONDUIT - BORED.
- F. INSTALL 2 IN. PVC SCHEDULE 80 ELECTRICAL CONDUIT - TRENCHED.
- G. INSTALL HANDHOLE.
- H. REMOVE EXISTING POLE, ALL ASSOCIATED EQUIPMENT AND FOUNDATION 12 IN. BELOW GRADE AND BACKFILL.
- J. INSTALL OVERSIZE HANDHOLE. CAP UNUSED CONDUITS.
- K. INSTALL EMBEDDED METERED SERVICE PEDESTAL (100 AMPS). (NOTE: INSTALL 3-2 IN. AND 1-4 IN 90° CONDUIT BENDS).
- L. INSTALL A NEMA SIZE S BASE MOUNTED CONTROLLER AND CABINET WITH ALL NECESSARY EQUIPMENT. (NOTE: THREE-4 IN. PVC, AND ONE-2 IN. PVC SCHEDULE 80 CONDUIT BENDS).
- M. INSTALL CONCRETE FOUNDATION FOR A 17 FT. "SPECIAL T" POLE WITH CURVED 50 FT. MAST ARM WITH SIGNAL HEADS, SIGNS, AND VIDEO DETECTION CAMERAS ON A 5 FT. EXTENSION POLE. (NOTE: TWO 3 IN. PVC SCHEDULE 80 CONDUIT BENDS).
- N. PROPOSED VIDEO DETECTION ZONE.
- O. INSTALL 4 IN. PVC SCHEDULE 80 ELECTRICAL CONDUIT FOR ELECTRICAL SERVICE - TRENCHED. STUB OUT CONDUIT BEND AT BASE OF UTILITY POLE.
- P. INSTALL CONCRETE FOUNDATION WITH A 27 FT. STEEL POLE WITH A 50 FT. MAST ARM WITH SIGNAL HEADS, SIGNS, 20 FT. LIGHTING ARM, LED LUMINAIRE AND VIDEO DETECTION CAMERAS ON A 5 FOOT EXTENSION POLE. (NOTE: TWO 3 IN. PVC SCHEDULE 80 CONDUIT BENDS).
- R. INSTALL CONCRETE FOUNDATION WITH A 27 FT. STEEL POLE WITH A 60 FT. MAST ARM WITH SIGNAL HEADS, SIGNS AND VIDEO DETECTION CAMERAS ON A 5 FOOT RISER. (NOTE: TWO 3 IN. PVC SCHEDULE 80 CONDUIT BENDS).
- S. INSTALL CONCRETE FOUNDATION WITH A 27 FT. STEEL POLE WITH A 20 FT. LIGHTING ARM, LED LUMINAIRE, 3 INCH WEATHER HEAD AND SPLICE CABINET. (NOTE: TWO 3 IN. PVC SCHEDULE 80 CONDUIT BENDS).

UTILITY HEIGHTS:
 COMMUNICATION -16'-0"
 COMMUNICATION -17'-7"
 COMMUNICATION -18'-9"
 COMMUNICATION -20'-6"
 COMMUNICATION -25'-0"

PROPOSED SIGNS



GEOMETRIC LEGEND

== EXISTING
 --- PROPOSED

UTILITY LEGEND

SD STORM DRAIN
 G GAS MAIN
 W WATER MAIN
 S SEWER MAIN
 E ELECTRIC CABLES
 A AERIAL CABLES
 T TELEPHONE CABLES
 F FIBER-OPTIC

APPROVALS

TEAM LEADER
 ASST. DIV. CHIEF
 DIVISION CHIEF
 OFFICE DIRECTOR

REVISIONS

① SIGNAL RECONSTRUCTION DUE TO NEW GEOMETRICS AND CYCLE TRACK
 10/3/2023 TMS P841

OFFICE OF TRAFFIC & SAFETY
 TRAFFIC ENGINEERING DESIGN DIVISION

MDOT
 MARYLAND DEPARTMENT OF TRANSPORTATION
 STATE HIGHWAY ADMINISTRATION

MD 193 (UNIVERSITY BLVD)
 AT AMHERST AVE.
 SILVER SPRING, MD

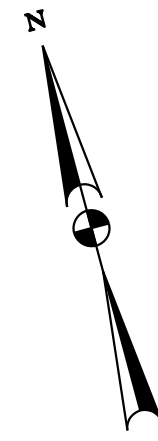
SIGNALIZATION PLAN SHEET

SCALE 1"=20' ADVERTISED DATE _____ CONTRACT NO. M-826-378

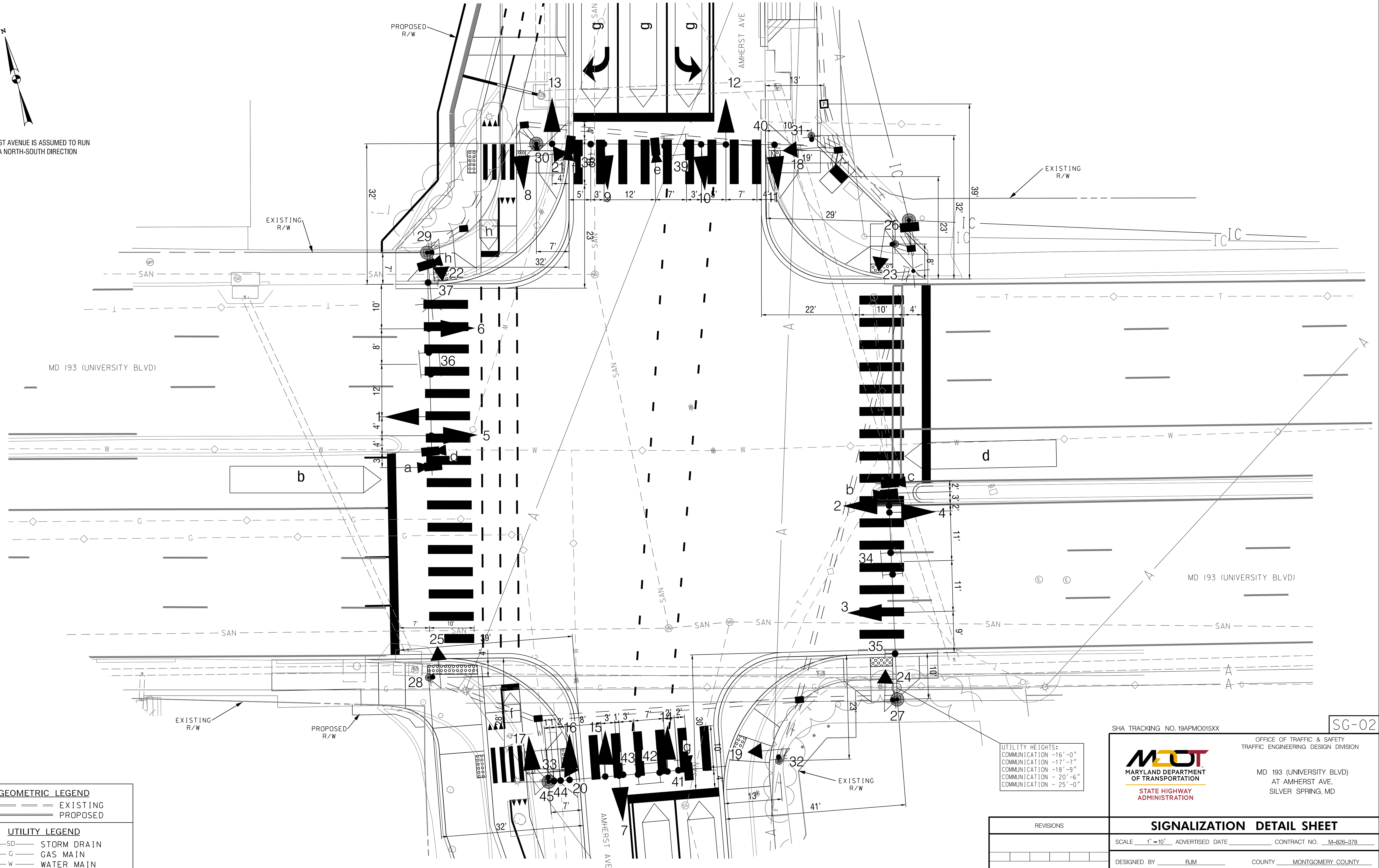
DESIGNED BY RJM COUNTY MONTGOMERY COUNTY
 DRAWN BY JC LOGMILE 1.6
 CHECKED BY RB TMS NO. P841
 MDE/PRD TOD NO. _____

TS NO. 224F DRAWING SG-01 OF 3 SHEET NO. 117 OF 208

BY: ukota



AMHERST AVENUE IS ASSUMED TO RUN IN A NORTH-SOUTH DIRECTION



GEOMETRIC LEGEND

- == EXISTING
- == PROPOSED

UTILITY LEGEND

- SD SD STORM DRAIN
- G G GAS MAIN
- W W WATER MAIN
- S S SEWER MAIN
- E E ELECTRIC CABLES
- A A AERIAL CABLES
- T T TELEPHONE CABLES
- F F FIBER-OPTIC

UTILITY HEIGHTS:
 COMMUNICATION -16'-0"
 COMMUNICATION -17'-7"
 COMMUNICATION -18'-9"
 COMMUNICATION -20'-6"
 COMMUNICATION -25'-0"

SHA TRACKING NO. 19APMO015XX

SG-02



OFFICE OF TRAFFIC & SAFETY
TRAFFIC ENGINEERING DESIGN DIVISION

MD 193 (UNIVERSITY BLVD)
AT AMHERST AVE.
SILVER SPRING, MD

SIGNALIZATION DETAIL SHEET

REVISIONS	

SCALE 1"=10'	ADVERTISED DATE	CONTRACT NO. M-826-378
DESIGNED BY RJM	COUNTY MONTGOMERY COUNTY	
DRAWN BY JC	LOGMILE 1.6	
CHECKED BY RB	TIMS NO. P841	
MDE/PRD	TOD NO.	
TS NO.	DRAWING SG-02 OF 3	SHEET NO. 118 OF 208

BY: ukota

PLOTTED: 10/9/2023

PROJECT DESCRIPTION

- I. **GENERAL**
THIS PROJECT INVOLVES MODIFYING THE TRAFFIC SIGNAL DUE TO GEOMETRIC CHANGES AT THE INTERSECTION OF UNIVERSITY BOULEVARD AND AMHERST AVENUE IN MONTGOMERY COUNTY. UNIVERSITY BOULEVARD IS ASSUMED TO RUN IN AN EAST-WEST DIRECTION.
- II. **INTERSECTION OPERATION**
THIS INTERSECTION OPERATES IN A NEMA EIGHT-PHASE SEMI-TRAFFIC-ACTUATED MODE. THE AMHERST AVENUE APPROACHES OPERATE CONCURRENTLY WITH EXCLUSIVE-ONLY LEFT TURN PHASES FOR THE NORTHBOUND LEFT TURN MOVEMENT AND AS EXCLUSIVE / PERMITTED FOR THE SOUTHBOUND LEFT TURN MOVEMENT. THE UNIVERSITY BOULEVARD APPROACHES OPERATE CONCURRENTLY WITH EXCLUSIVE / PERMITTED LEFT TURN PHASES FOR THE EASTBOUND AND WESTBOUND LEFT TURN MOVEMENT. CONCURRENT PEDESTRIAN PHASING IS PROVIDED ACROSS ALL LEGS OF THE INTERSECTION. BIKE PHASE OPERATIONS RUNNING CONCURRENTLY WITH PHASE 4PED.
- III. **PEDESTRIAN OPERATION**
NAVIGATOR AUDIBLE PEDESTRIAN PUSHBUTTONS TO CROSS THE NORTH, SOUTH, EAST AND WEST LEGS OF THE INTERSECTION ARE TO BE PROVIDED. WHEN THE PEDESTRIAN LOCATES AND PRESSES THE PUSHBUTTON FOR AN EXTENDED TIME, THE PUSHBUTTON UNIT WILL ANNOUNCE THE FOLLOWING MESSAGE:

EAST AND WEST: "WAIT TO CROSS AMHERST AT UNIVERSITY, WAIT."
WHEN THE WALK PHASE BEGINS, THE MESSAGE WILL BE A RAPID TICK WHICH WILL LAST FOR THE DURATION OF THE WALK PHASE.

NORTH AND SOUTH: "WAIT TO CROSS UNIVERSITY AT AMHERST, WAIT."
WHEN THE WALK PHASE BEGINS, THE MESSAGE WILL BE A RAPID TICK WHICH WILL LAST FOR THE DURATION OF THE WALK PHASE.

CONTACT PERSONS

THE CONTACT PERSONS FOR THIS PROJECT ARE AS FOLLOWS:

DISTRICT 3

MR. JOSEPH MDGES
ASSISTANT DISTRICT ENGINEER - TRAFFIC
301-513-7462

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 301-777-8761

DOTS CONTACTS:

REBECCA LICHTENSTEIN, P.E.
CHIEF TRAFFIC OPERATION DIVISION
PHONE: (410)-787-7650

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

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

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

PEPCO

MR. PAUL WILSON
PHONE 202-833-7500

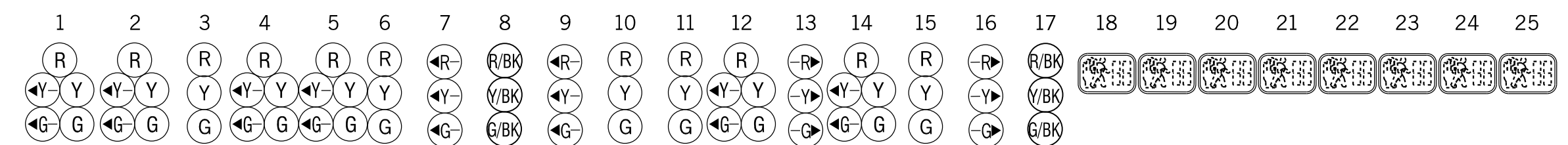
EQUIPMENT LIST

A. EQUIPMENT TO BE FURNISHED BY MONTGOMERY COUNTY

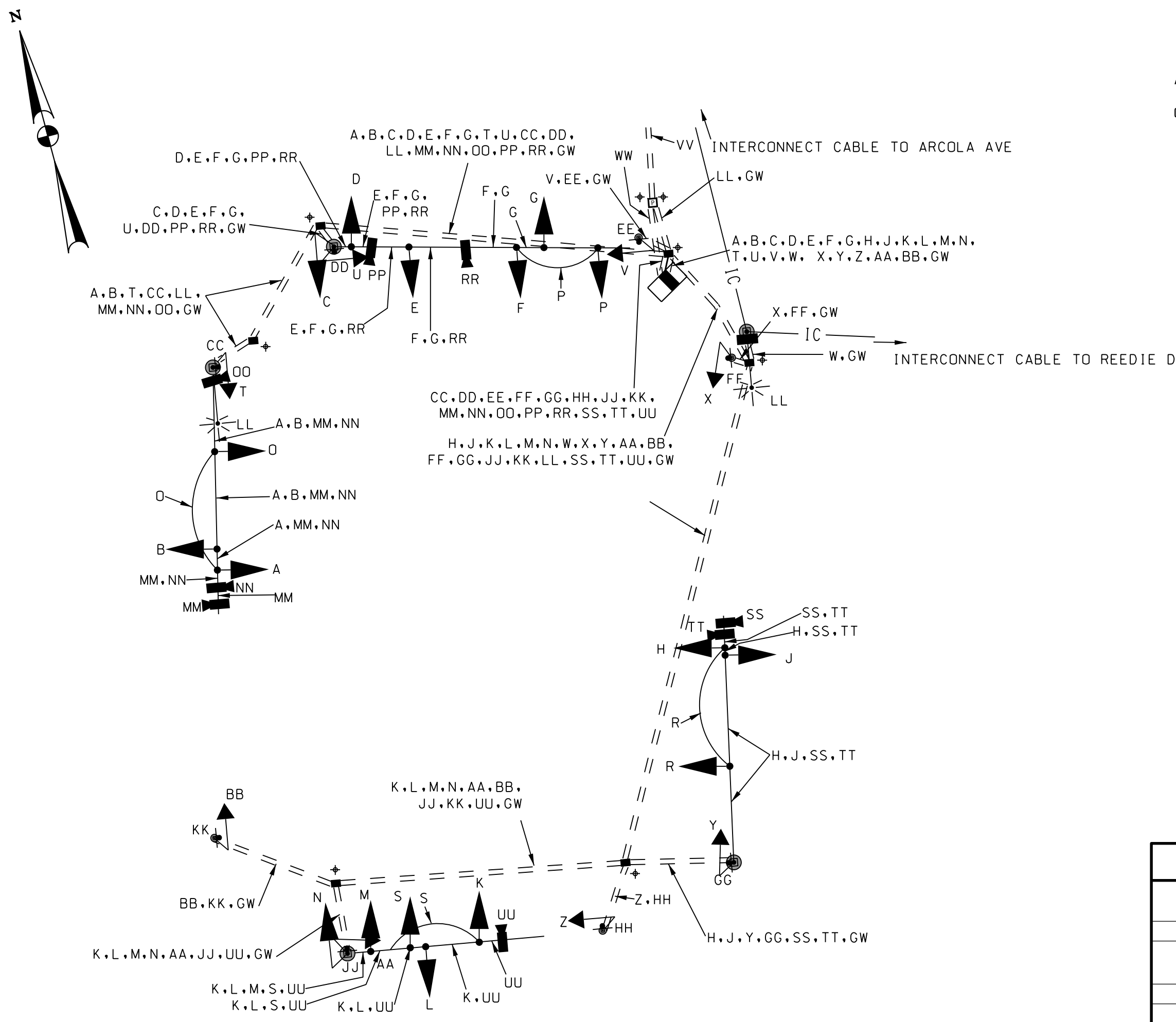
ITEM NO.	QUANTITY	UNIT	DESCRIPTION
NONE			

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

CATEGORY CODE NO.	QUANTITY	UNIT	DESCRIPTION
801004	20.6	CY	CONCRETE FOR SIGNAL FOUNDATION
801605	135	SF	SHEET ALUMINUM SIGNS
802501	476	LF	NO. 6 AWG STRANDED BARE COPPER GROUND WIRE
802575	300	LF	1 CONDUCTOR #3/0 AWG CABLE
805050	1	EA	WEATHER HEAD, 3 INCH
805121	235	LF	UP TO 4 INCH SCHEDULE 80 RIGID PVC CONDUIT-BORED OR SLOTTED
805125	81	LF	2 INCH SCHEDULE 80 RIGID PVC CONDUIT-TRENCHED
805135	120	LF	3 INCH SCHEDULE 80 RIGID PVC CONDUIT-TRENCHED
805140	141	LF	4 INCH SCHEDULE 80 RIGID PVC CONDUIT-TRENCHED
807206	1	EA	UP TO 200 AMP EMBEDDED METERED SERVICE PEDESTAL, CONCRETE COLLAR & GROUND RODS
811001	6	EA	FURNISH AND INSTALL ELECTRICAL HANDHOLE
816125	1	EA	POLE MOUNTED SPLICE CABINET
818030	1	EA	STEEL POLE WITH A SINGLE 38 FOOT MAST ARM
818036	2	EA	STEEL POLE WITH A SINGLE 50 FOOT MAST ARM
818041	1	EA	STEEL POLE WITH A SINGLE 60 FOOT MAST ARM
818101	4	EA	6 FOOT OR 10 FOOT PEDESTAL POLE WITH BREAK WAY COUPLING, FOUNDATION AND GROUND ROD
818162	1	EA	MAST ARM POLE AND 50 FOOT MAST ARM, ANY 'T' DIMENSION, FOUNDATION & GROUND ROD
822002	40	LF	12-PAIR COMMUNICATION CABLE, JELLY FILLED (UNDERGROUND)
822510	40	LF	DISCONNECT, PULL-BACK & REROUTE CABLES
837001	7	EA	GROUND ROD - 3/4 INCH DIAMETER X 10 FOOT LENGTH
860284	63	EA	12 INCH LED VEHICULAR TRAFFIC SIGNAL HEAD SECTION
860285	87	EA	16 INCH LED COUNTDOWN PEDESTRIAN SIGNAL HEAD
860289	17	EA	SIGNAL HEAD BACK PLATE, ANY SIZE
861105	1210	LF	ELECTRICAL CABLE - 2 CONDUCTOR (NO. 14 AWG)
861107	1344	LF	ELECTRICAL CABLE - 5 CONDUCTOR (NO. 14 AWG)
861108	2693	LF	ELECTRICAL CABLE - 7 CONDUCTOR (NO. 14 AWG)
861117	60	LF	ELECTRICAL CABLE - 3 WIRE (NO. 4 AWG)
865210	8	EA	AUDIBLE/TACTILE PEDESTRIAN PUSHBUTTON STATION AND SIGNS
865300	1	EA	2-WIRE APS CENTRAL CONTROL UNIT
866110	2	EA	ANY SIZE LIGHTING ARM ON SIGNAL POLE WITH LED ROADWAY LUMINAIRE
873002	1	LS	REMOVE AND DISPOSE OF EXISTING SIGNAL EQUIPMENT
XXXXXX	1	EA	FURNISH AND INSTALL CONTROLLER CABINET, SIZE "S", VIDEO INT. 1-8 CAM AND UPS EQUIPMENT
XXXXXX	1	EA	FURNISH AND INSTALL ASC 3 CONTROLLER



PHASE 1 AND 5	←GR	←GR	R	←GR	←GR	R	←R	R/BK	←R	R	R	R	R	←G	←R	R	←G	R/BK	DW	DW	DW	DW	DW	DW	DW	DW	DW
1 AND 5 CHANGE TO 1 AND 6, 2 AND 5, OR 2 AND 6																											
PHASE 1 AND 6	←GG	←GG	G	R	R	R	←R	R/BK	←R	R	R	R	R	←G	R	R	←G	R/BK	DW	DW	DW	DW	DW	DW	DW	DW	DW
1 AND 6 CHANGE	←YG	←YG	G	R	R	R	←R	R/BK	←R	R	R	R	R	←Y	R	R	←Y	R/BK	DW	DW	DW	DW	DW	DW	DW	DW	DW
PHASE 2 AND 5	R	R	R	←GG	←GG	G	←R	R/BK	←R	R	R	R	R	←R	R	R	←R	R/BK	DW	DW	DW	DW	DW	DW	DW	DW	DW
2 AND 5 CHANGE	R	R	R	←YG	←YG	G	←R	R/BK	←R	R	R	R	R	←R	R	R	←R	R/BK	DW	DW	DW	DW	DW	DW	DW	DW	DW
PHASE 2 AND 6	G	G	G	G	G	G	←R	R/BK	←R	R	R	R	R	←R	R	R	←R	R/BK	DW	DW	DW	DW	DW	DW	DW	DW	DW
PED CLEARANCE	G	G	G	G	G	G	←R	R/BK	←R	R	R	R	R	←R	R	R	←R	R/BK	FL/DW	FL/DW	FL/DW	FL/DW	DW	DW	DW	DW	DW
2 AND 6 CHANGE	Y	Y	Y	Y	Y	Y	←R	R/BK	←R	R	R	R	R	←R	R	R	←R	R/BK	DW	DW	DW	DW	DW	DW	DW	DW	DW
PHASE 4 AND 8	R	R	R	R	R	R	←R	G/BK	←R	G	G	G	G	←R	G	G	←R	G/BK	DW	DW	DW	DW	DW	DW	DW	DW	DW
4 AND 8 CHANGE TO 3 AND 8, 4 AND 7, OR 3 AND 7																											
PHASE 4 AND 8 ALT	R	R	R	R	R	R	←R	G/BK	←R	G	G	G	G	←R	G	G	←R	G/BK	DW	DW	DW	DW	DW	DW	DW	DW	DW
PED CLEARANCE	R	R	R	R	R	R	←R	Y/BK	←R	G	G	G	G	←R	G	G	←R	Y/BK	DW	DW	DW	DW	DW	DW	DW	DW	DW
4 AND 8 ALT CHANGE TO 3 AND 8, 4 AND 7, OR 3 AND 7																											
PHASE 3 AND 7	R	R	R	R	R	R	←G	R/BK	←G	R	R	←G	←G	R	R	←R	R/BK	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW
3 AND 8 CHANGE	R	R	R	R	R	R	←Y	R/BK	←Y	Y	Y	←Y	←Y	R	R	←R	R/BK	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW
PHASE 3 AND 8	R	R	R	R	R	R	←G	R/BK	←G	G	G	R	←R	R	R	←R	R/BK	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW
3 AND 8 CHANGE	R	R	R	R	R	R	←Y	R/BK	←Y	Y	Y	R	←R	R	R	←R	R/BK	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW
PHASE 4 AND 7	R	R	R	R	R	R	←R	R/BK	←R	R	R	←GG	←GG	G	←R	R/BK	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW
4 AND 7 CHANGE	R	R	R	R	R	R	←R	R/BK	←R	R	R	←YG	←YG	G	←R	R/BK	DW	DW	DW	DW	DW	DW	DW	DW	DW	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	FL/R	FL/R	FL/R	FL/R	FL/R	FL/R	DARK	DARK	DARK	DARK	DARK	DARK	DARK	DARK	DARK



WIRING KEY

A,B,C,D,E,F,G,H,J,K,L,M,N	- ELECTRICAL CABLE - 7 CONDUCTOR (NO. 14 AWG)
O,P,R,S,T,U,V,W,X,Y,Z,AA,BB	- ELECTRICAL CABLE - 5 CONDUCTOR (NO. 14 AWG)
CC,DD,EE,FF,GG,HH,II,JK	- ELECTRICAL CABLE - 2 CONDUCTOR (NO. 14 AWG)
LL	- ELECTRICAL CABLE - 2 CONDUCTOR (NO. 12 AWG) TRAY CABLE
MM,NN,OO,PP,RR,SS,TT,UU	- VIDEO DETECTION CONTROL CABLE
W	- 12 PAIR INTERCONNECT CABLE
GW	- NO. 6 AWG STRANDED BARE COPPER GROUND WIRE
VV	- 1 CONDUCTOR #2 AWG CABLE FOR SERVICE
WW	- 3 WIRE #8 AWG
IC	- EXISTING INTERCONNECT CABLE
+	- GROUND ROD

SHA TRACKING NO. 19APMO015XX

OFFICE OF TRAFFIC & SAFETY
TRAFFIC ENGINEERING DESIGN DIVISION

MDOT
MARYLAND DEPARTMENT OF TRANSPORTATION

STATE HIGHWAY ADMINISTRATION

MD 193 (UNIVERSITY BLVD)
AT AMHERST AVE.
SILVER SPRING, MD

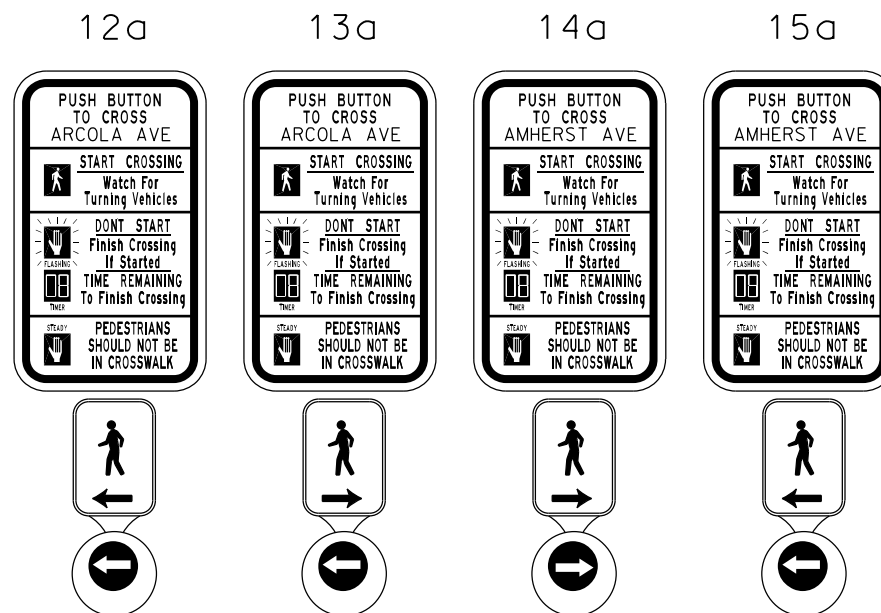
REVISIONS		GENERAL INFORMATION SHEET	
SCALE	ADVERTISED DATE	CONTRACT NO.	
DESIGNED BY	RJM	COUNTY	MONTGOMERY COUNTY
DRAWN BY	JC	LOGMILE	1.6
CHECKED BY	RB	TIMS NO.	P841
MDE/PRD		TOD NO.	
TS NO. 224F	DRAWING SG-03	OF 3	SHEET NO. 119 OF 208

BY: ukota

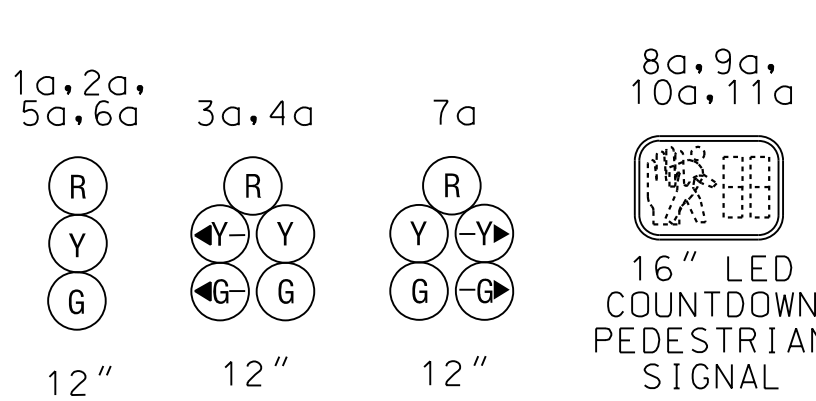
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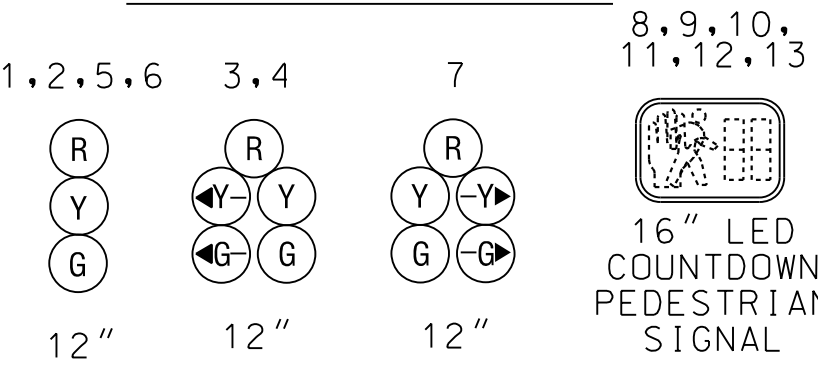
EXISTING SIGNS TO BE REMOVED



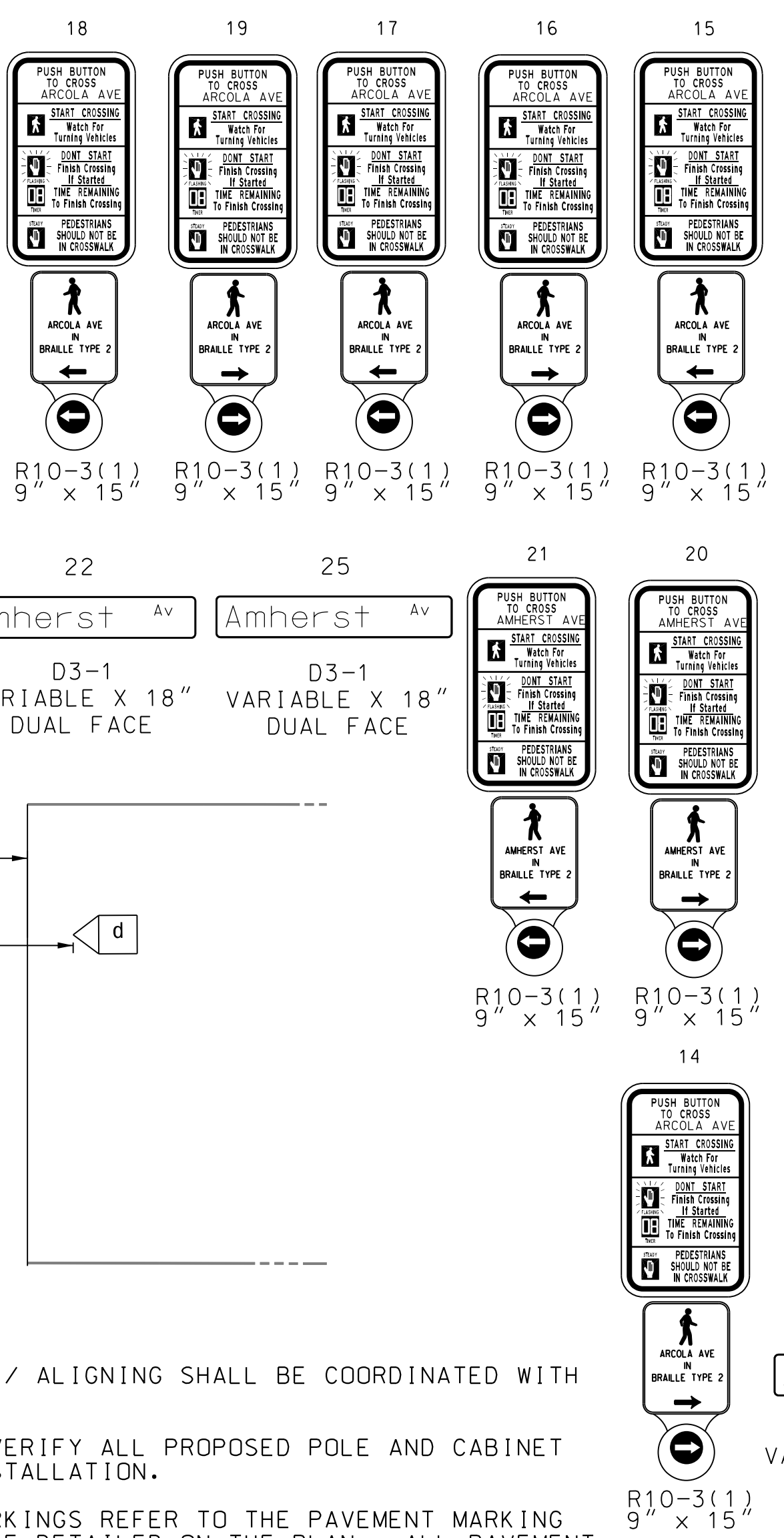
EXISTING SIGNALS TO BE REMOVED



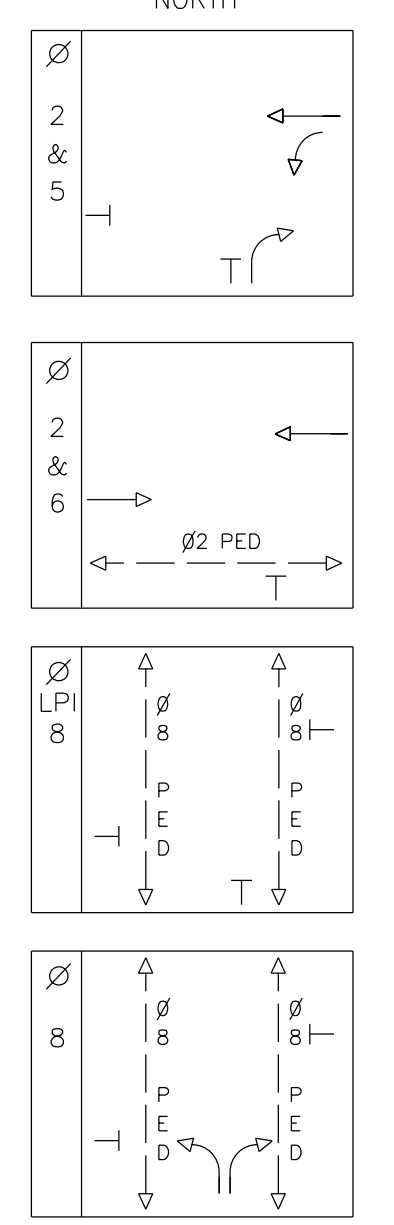
PROPOSED LED SIGNALS



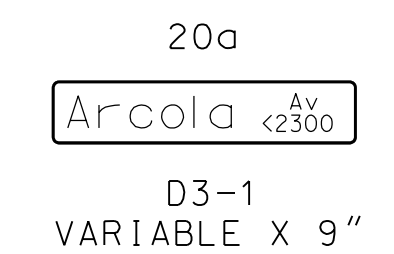
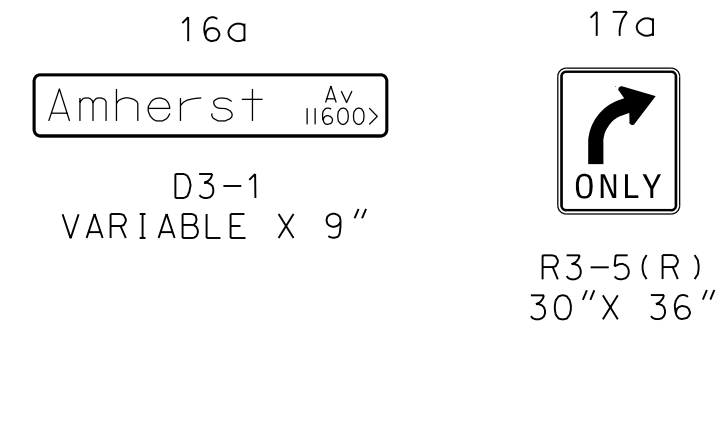
PROPOSED SIGNS



PHASING

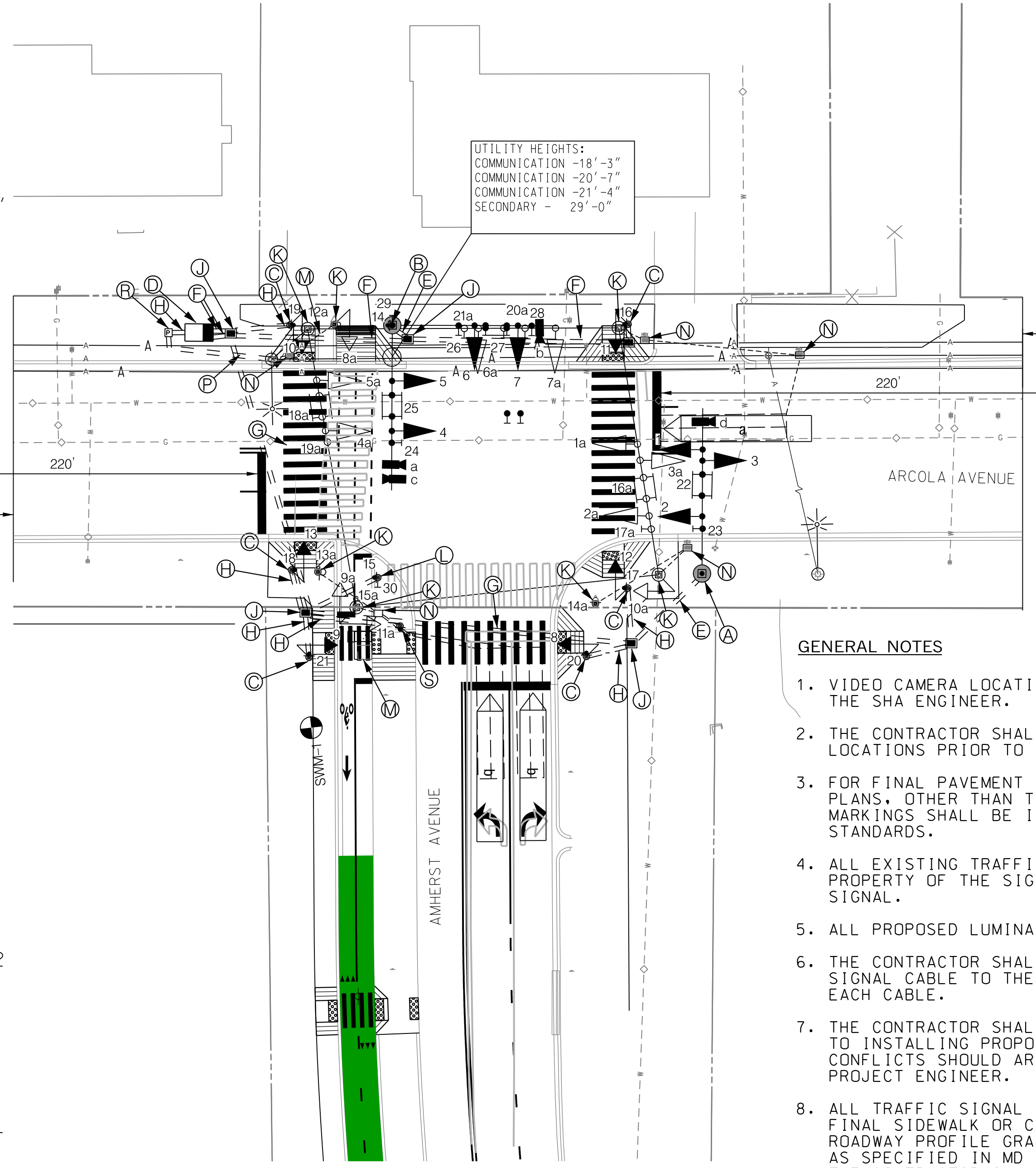


AMHERST AVENUE IS ASSUMED TO RUN IN A NORTH-SOUTH DIRECTION



CONSTRUCTION DETAILS

- A. INSTALL CONCRETE FOUNDATION WITH A 27 FT. STEEL POLE WITH A 38 FT. MAST ARM WITH SIGNAL HEADS, SIGNS, AND VIDEO DETECTION CAMERA ON A 5 FOOT RISER. (NOTE: TWO 3 IN. PVC SCHEDULE 80 CONDUIT BENDS).
- B. INSTALL CONCRETE FOUNDATION FOR A 20 FT. "SPECIAL T" POLE WITH REVERSED CURVED 50 FT. TWIN MAST ARMS WITH IDENTICAL FLANGE PLATES WITH SIGNAL HEADS, SIGNS, AND VIDEO DETECTION CAMERAS ON A 5 FT. RISER. NOTE: TWO 3 IN. PVC SCHEDULE 80 CONDUIT BENDS).
- C. INSTALL 10' PEDESTAL POLE (MD 818.16-01), WITH BREAKAWAY COUPLINGS MODIFIED BASE (MD 801.01-01), COUNTDOWN PEDESTRIAN SIGNALS, AUDIBLE TACTILE PUSHBUTTON AND SIGN. (NOTE: ONE 2 IN. PVC SCHEDULE 80 CONDUIT BEND).
- D. INSTALL A NEMA SIZE 6 BASE MOUNTED CONTROLLER AND CABINET WITH ALL NECESSARY EQUIPMENT. (NOTE: TWO-4 IN. PVC, AND TWO-2 IN. PVC SCHEDULE 80 CONDUIT BENDS).
- E. INSTALL ONE-3 IN. PVC SCHEDULE 80 ELECTRICAL CONDUITS - TRENCHED
- F. INSTALL 4 IN. PVC SCHEDULE 80 ELECTRICAL CONDUITS - TRENCHED.
- G. INSTALL 4 IN. PVC SCHEDULE 80 ELECTRICAL CONDUITS - BORED.
- H. INSTALL 2 IN. PVC SCHEDULE 80 ELECTRICAL CONDUIT - TRENCHED.
- J. INSTALL HANDHOLE.
- K. REMOVE EXISTING POLE, ALL ASSOCIATED EQUIPMENT AND FOUNDATION 12 IN. BELOW GRADE AND BACKFILL.
- L. INSTALL 6' PEDESTAL POLE (MD 818.16-01), WITH BREAKAWAY COUPLINGS MODIFIED BASE (MD 801.01-01), AUDIBLE TACTILE PUSHBUTTON AND SIGN. (NOTE: ONE-2 IN. PVC SCHEDULE 80 CONDUIT BEND).
- M. REMOVE EXISTING CABINET, ALL ASSOCIATED EQUIPMENT AND FOUNDATION 12 IN. BELOW GRADE AND BACKFILL.
- N. REMOVE EXISTING HANDHOLE AND CAP AND ABANDON CONDUIT.
- O. REMOVE EXISTING POLE AND ALL ASSOCIATED EQUIPMENT. INSTALL COUNTDOWN PEDESTRIAN SIGNALS, AUDIBLE TACTILE PUSHBUTTON AND SIGN.
- P. INSTALL 4 IN. PVC SCHEDULE 80 ELECTRICAL CONDUIT FOR ELECTRICAL SERVICE - TRENCHED. STUB OUT CONDUIT BEND AT BASE OF UTILITY POLE.
- R. INSTALL EMBEDDED METERED SERVICE PEDESTAL (100 AMPS). (NOTE: INSTALL 3-2 IN. AND 1-4 IN. 90° CONDUIT BENDS).



GENERAL NOTES

1. VIDEO CAMERA LOCATION / ALIGNING SHALL BE COORDINATED WITH THE SHA ENGINEER.
2. THE CONTRACTOR SHALL VERIFY ALL PROPOSED POLE AND CABINET LOCATIONS PRIOR TO INSTALLATION.
3. FOR FINAL PAVEMENT MARKINGS REFER TO THE PAVEMENT MARKING PLANS, OTHER THAN THOSE DETAILED ON THE PLAN. ALL PAVEMENT MARKINGS SHALL BE INSTALLED IN ACCORDANCE WITH MSHA STANDARDS.
4. ALL EXISTING TRAFFIC SIGNAL EQUIPMENT REMOVED SHALL BECOME THE PROPERTY OF THE SIGNAL CONTRACTOR UPON COMPLETION OF THE NEW SIGNAL.
5. ALL PROPOSED LUMINAIRES SHALL BE SUPPLIED WITH A PHOTOCELL.
6. THE CONTRACTOR SHALL BE RESPONSIBLE FOR TERMINATING ALL SIGNAL CABLE TO THE APPROPRIATE TERMINALS AND PROPERLY LABEL EACH CABLE.
7. THE CONTRACTOR SHALL VERIFY ALL UNDERGROUND UTILITIES PRIOR TO INSTALLING PROPOSED SIGNAL EQUIPMENT. IF ANY UTILITY CONFLICTS SHOULD ARISE THE CONTRACTOR SHALL CONTACT THE PROJECT ENGINEER.
8. ALL TRAFFIC SIGNAL FOUNDATIONS SHALL BE INSTALLED AT THE FINAL SIDEWALK OR CURB GRADE FOR CLOSED SECTIONS, HIGHEST ROADWAY PROFILE GRADE FOR OPEN SECTIONS. TO MEET CLEARANCES AS SPECIFIED IN MD 816.03, MD 818.01, MD 818.02, MD 818.04. THE CONTRACTOR SHALL VERIFY ULTIMATE GRADES PRIOR TO THE INSTALLATION OF ALL SIGNAL EQUIPMENT.

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: _____



NO.	REVISION	BY	APP'D	DATE

DESIGNED BY: RJM	DATE: OCTOBER, 2023
DRAWN BY: JC	DATE: OCTOBER, 2023
CHECKED BY: RB	DATE: OCTOBER, 2023
DRAWING NO.:	DATE:
RECOMMENDED FOR APPROVAL	
Chief, Design Section	Date
APPROVED	
Chief, Division of Transportation Engineering	Date

DEPARTMENT OF TRANSPORTATION
DIVISION OF TRANSPORTATION ENGINEERING
MONTGOMERY COUNTY, MARYLAND

SIGNAL PLAN
AMHERST AVE & ARCOLA AVE

SCALE: 1"=20' SHEET 120 of 208

SG-04

PROJECT DESCRIPTION

1. GENERAL

THIS PROJECT INVOLVES THE RECONSTRUCTION OF THE TRAFFIC SIGNAL WITH INTERCONNECT AT THE INTERSECTION OF AMHERST AVENUE AND ARCOLA AVENUE IN MONTGOMERY COUNTY. ARCOLA AVENUE IS ASSUMED TO RUN AN EAST-WEST DIRECTION.

II. INTERSECTION OPERATION

1. THE INTERSECTION SHALL OPERATE IN A FOUR-PHASE, SEMI ACTUATED MODE.
2. A FULL-TRAFFIC ACTUATED, EIGHT PHASE CONTROLLER WITH ALL NECESSARY EQUIPMENT HOUSED IN A NEMA SIZE "6" BASE-MOUNTED CABINET SHALL BE INSTALLED AT THIS INTERSECTION.
3. A UPS BATTERY BACK UP SYSTEM SHALL BE ATTACHED TO THE RIGHT SIDE OF THE CABINET.
4. MONTGOMERY COUNTY SIGNAL SHOP SHALL INSTALL APS CONTROL UNIT INTO THE CONTROLLER CABINET. THE CONTRACTOR SHALL DELIVER THE CONTROL UNIT AND AUDIBLE PUSHBUTTONS TO THE MONTGOMERY COUNTY SIGNAL SHOP FOR TESTING AND PROGRAMING AT LEAST TWO WEEKS PRIOR TO THE BEGINNING OF WORK.

III. SPECIAL NOTES

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

EQUIPMENT LIST

A. EQUIPMENT TO BE FURNISHED BY MONTGOMERY COUNTY

ITEM NO.	QUANTITY	UNIT	DESCRIPTION
NONE			

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

CATEGORY CODE NO.	QUANTITY	UNIT	DESCRIPTION
801004	11.8	CY	CONCRETE FOR SIGNAL FOUNDATION
801605	58	SF	SHEET ALUMINUM SIGNS
802501	413	LF	NO. 6 AWG STRANDED BARE COPPER GROUND WIRE
802575	78	LF	1 CONDUCTOR #3/0 AWG CABLE
805050	1	EA	WEATHER HEAD, 3 INCH
805121	141	LF	UP TO 4 INCH SCHEDULE 80 RIGID PVC CONDUIT-BORED OR SLOTTED
805125	113	LF	2 INCH SCHEDULE 80 RIGID PVC CONDUIT-TRENCHED
805135	28	LF	3 INCH SCHEDULE 80 RIGID PVC CONDUIT-TRENCHED
805140	44	LF	4 INCH SCHEDULE 80 RIGID PVC CONDUIT-TRENCHED
807206	1	EA	UP TO 200 AMP EMBEDDED METERED SERVICE PEDESTAL, CONCRETE COLLAR & GROUND RODS
811001	5	EA	FURNISH AND INSTALL ELECTRICAL HANDHOLE
816107	1	EA	BACKUP UPS SYSTEM FOR TRAFFIC SIGNAL IN NEMA SIZE 5 CABINET
818030	1	EA	STEEL POLE WITH A SINGLE 38 FOOT MAST ARM
818101	7	EA	6 FOOT OR 10 FOOT PEDESTAL POLE WITH BREAK WAY COUPLING, FOUNDATION AND GROUND ROD
818150	1	EA	TWIN MAST ARM POLE AND 50 FOOT/50 FOOT MAST ARMS, ANY 'T' DIMENSION, FOUNDATION & GROUND ROD
822510	120	LF	DISCONNECT, PULL BACK & REROUTE CABLES
837001	2	EA	GROUND ROD - 3/4 INCH DIAMETER X 10 FOOT LENGTH
860284	27	EA	12 INCH LED VEHICULAR TRAFFIC SIGNAL HEAD SECTION
860285	6	EA	16 INCH LED COUNTDOWN PEDESTRIAN SIGNAL HEAD
860289	7	EA	SIGNAL HEAD BACK PLATE, ANY SIZE
860292	1	EA	CUT, CLEAN, GALVANIZE AND CAP TRAFFIC SIGNAL STRUCTURE
861105	989	LF	ELECTRICAL CABLE - 2 CONDUCTOR (NO. 14 AWG)
861107	836	LF	ELECTRICAL CABLE - 5 CONDUCTOR (NO. 14 AWG)
861108	723	LF	ELECTRICAL CABLE - 7 CONDUCTOR (NO. 14 AWG)
861117	30	LF	ELECTRICAL CABLE - 3 WIRE (NO. 4 AWG)
865210	8	EA	AUDIBLE/TACTILE PEDESTRIAN PUSHBUTTON STATION AND SIGNS
865300	1	EA	2-WIRE APS CENTRAL CONTROL UNIT
873002	1	LS	REMOVE AND DISPOSE OF EXISTING SIGNAL EQUIPMENT
XXXXXX	1	EA	FURNISH AND INSTALL NEMA SIZE "6" CABINET - BASE MOUNT AND AUXILIARY EQUIPEMENT
XXXXXX	1	EA	FURNISH AND INSTALL ASC 3 CONTROLLER

FENTON STREET
RUNS IN AN
NORTH-SOUTH
DIRECTION

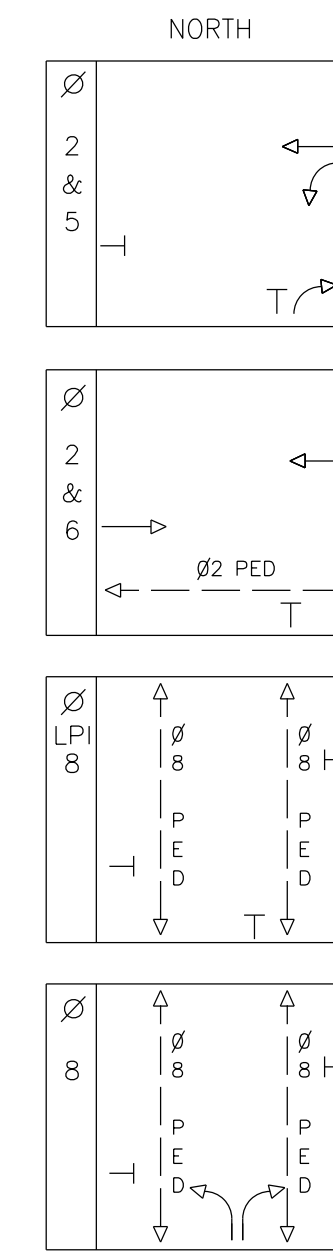
SEQUENCE OF OPERATION SHEET
TRAFFIC OPERATIONS SECTION
DIVISION OF TRAFFIC ENGINEERING
MONTGOMERY COUNTY, MARYLAND

INTERSECTION: AMHERST AVENUE AND ARCOLA AVENUE NO. _____

SIGNAL NO.	SIGNAL HEAD INDICATIONS			
	1,2,5,6	3-4	7	8-11
TOTAL:	4	2	1	4
LEGEND	(R) (Y) (G)	(R) (Y) (G)	(R) (Y) (G)	(R) (Y) (G)
OPTICALLY LIMITED				
ARROW				
FLASHING	12"	12"	12"	16"

SIGNAL NO.	SEQUENCE OF OPERATION											FLASHING
	1	2	3	4	5	6	7	8	9	10	11	
1	R	R	G	G	Y	R	R	R	R	R	R	FL/Y
2	R	R	G	G	Y	R	R	R	R	R	R	FL/Y
3	G	G	Y	Y	R	R	R	R	R	R	R	FL/Y
4	G	G	Y	Y	R	R	R	R	R	R	R	FL/Y
5	G	G	Y	Y	R	R	R	R	R	R	R	FL/Y
6	R	R	R	R	R	R	R	G	G	Y	R	FL/R
7	R	R	R	R	R	R	R	G	G	Y	R	FL/R
8	DW	DW	W	FLDW	DW	DW	DW	DW	DW	DW	DW	DARK
9	DW	DW	W	FLDW	DW	DW	DW	DW	DW	DW	DW	DARK
10	DW	DW	DW	DW	DW	DW	W	W	FLDW	DW	DW	DARK
11	DW	DW	DW	DW	DW	DW	W	W	FLDW	DW	DW	DARK
12	DW	DW	DW	DW	DW	DW	W	W	FLDW	DW	DW	DARK
13	DW	DW	DW	DW	DW	DW	W	W	FLDW	DW	DW	DARK
PHASE	Ø2 & Ø5		Ø2 & Ø6		ALL RED		LPI Ø8		Ø8		ALL RED	

PHASING



III. SPECIAL NOTES (CONT'D)

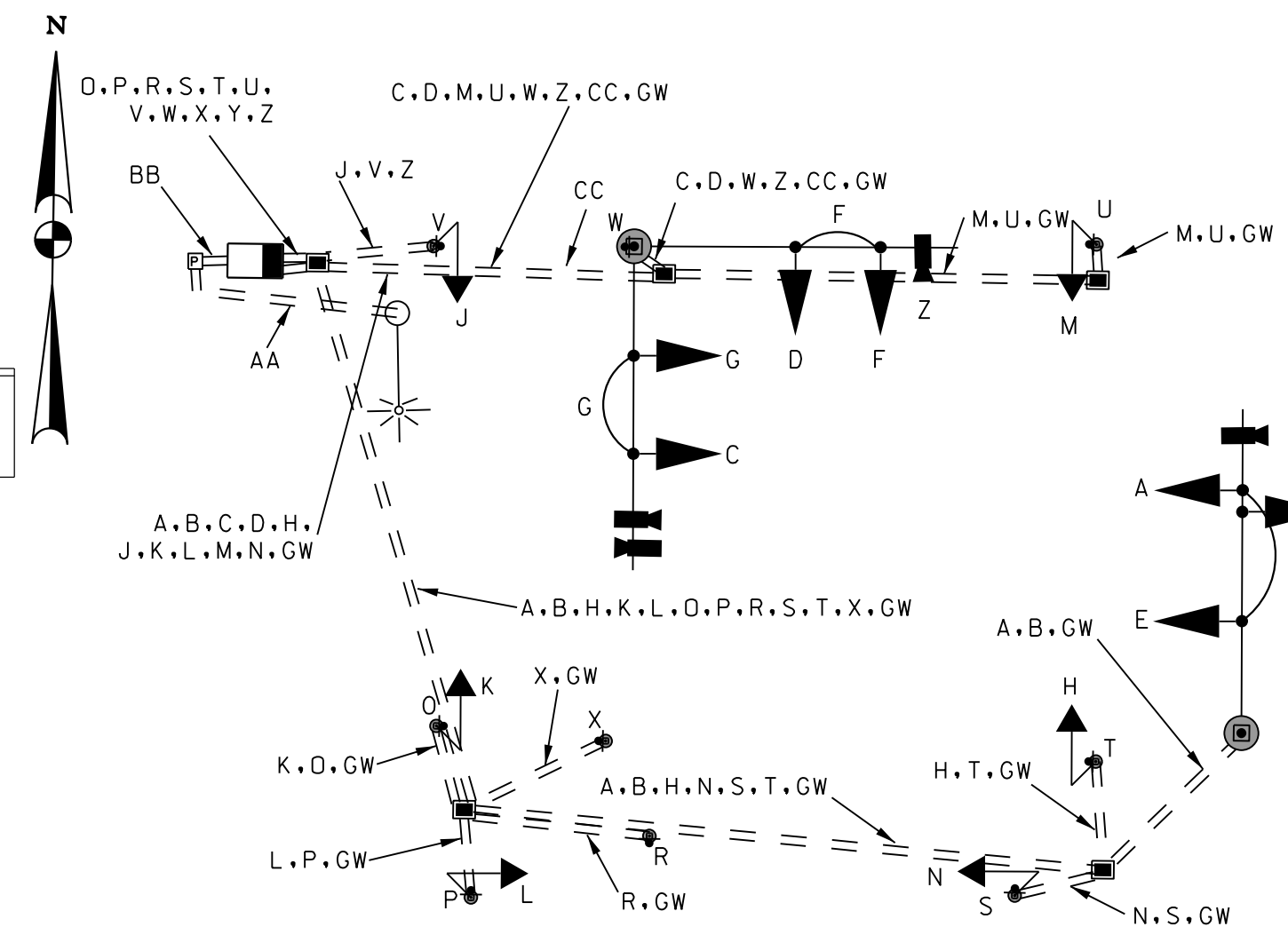
4. APS WILL FUNCTION AS FOLLOWS:

- TO CROSS ARCOLA AVE AT AMHERST AVE
- A. WHEN A PEDESTRIAN LOCATES AND PASSES THE PUSHBUTTON FOR AN EXTENDED TIME, THE PUSHBUTTON UNIT WILL ANNOUNCE THE FOLLOWING MESSAGE: "WAIT TO CROSS ARCOLA AT AMHERST. WAIT."
- B. WHEN THE "WALK" PHASE BEGINS, THE MESSAGE WILL BE A RAPID TICK, WHICH WILL LAST FOR THE DURATION OF THE "WALK" PHASE.
- TO CROSS AMHERST AVE AT ARCOLA AVE
- A. WHEN A PEDESTRIAN LOCATES AND PASSES THE PUSHBUTTON FOR AN EXTENDED TIME, THE PUSHBUTTON UNIT WILL ANNOUNCE THE FOLLOWING MESSAGE: "WAIT TO CROSS AMHERST AT ARCOLA. WAIT."
- B. WHEN THE "WALK" PHASE BEGINS, THE MESSAGE WILL BE A RAPID TICK, WHICH WILL LAST FOR THE DURATION OF THE "WALK" PHASE.

NOTES:

CONTROLLER WILL CHANGE FROM Ø2 & Ø5 TO Ø2 & Ø6 OR LPI Ø8 OR Ø8.
FL/R = FLASHING RED
FL/Y = FLASHING YELLOW

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



WIRING KEY

A,B,C,D	7-CONDUCTOR ELECTRICAL CABLE (NO. 14 A.W.G.)
E,F,G,H,J,K,L,M,N	5-CONDUCTOR ELECTRICAL CABLE (NO. 14 A.W.G.)
O,P,R,S,T,U,V,W,X	2-CONDUCTOR ELECTRICAL CABLE (NO. 14 A.W.G.)
Y,Z	VIDEO DETECTION CONTROL CABLE
AA	3-CONDUCTOR ELECTRICAL CABLE (NO. 3/0 A.W.G.)
BB	3-CONDUCTOR ELECTRICAL CABLE (NO. 4 A.W.G.)
CC	EXISTING INTERCONNECT CABLE
GW	NO. 6 AWG STRANDED BARE COPPER GROUND WIRE
+	GROUND ROD

SG-05

NO.	REVISION	BY	APP'D	DATE	DESIGNED BY: RJM	DATE: OCTOBER, 2023
					DRAWN BY: JC	DATE: OCTOBER, 2023
					CHECKED BY: RB	DATE: OCTOBER, 2023
					DRAWING NO.:	DATE:
					RECOMMENDED FOR APPROVAL	
					Chief, Design Section	Date
					APPROVED	
					Chief, Division of Transportation Engineering	Date

DEPARTMENT OF TRANSPORTATION
DIVISION OF TRANSPORTATION ENGINEERING
MONTGOMERY COUNTY, MARYLAND

GENERAL INFORMATION SHEET
AMHERST AVE & ARCOLA AVE

SCALE: NTS

SHEET 121 of 208



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







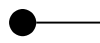













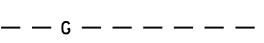
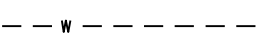
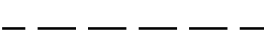
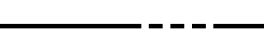
PROFESSIONAL CERTIFICATION:
I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND.
LICENSE NO: _____ EXPIRATION DATE: _____

GENERAL NOTES:

- THE LOCATIONS OF THE UTILITIES SHOWN ON THESE DRAWINGS ARE BASED ON FIELD OBSERVATION AND/OR RECORD DRAWINGS. THE INFORMATION SHOWN IS NOT NECESSARILY COMPLETE AND THE LOCATION OF THE UTILITIES SHOWN IS APPROXIMATE. THE CONTRACTOR WILL VERIFY THE EXISTENCE OF ALL UTILITIES IN ADVANCE OF CONDUCTING CONSTRUCTION OPERATIONS THAT COULD DAMAGE THESE UTILITIES.
- IN THE AREAS WHERE PROPOSED CONSTRUCTION MAY CONFLICT WITH EXISTING UTILITIES, THE CONTRACTOR WILL TAKE ALL NECESSARY PRECAUTIONS TO AVOID DAMAGE TO THESE UTILITIES.
- IF AN UNDERGROUND UTILITY IS DAMAGED, THE CONTRACTOR WILL IMMEDIATELY NOTIFY THE DISTRICT AND THE OWNER OF THE UTILITY. ANY DAMAGE SUSTAINED TO UTILITIES ABOVE OR BELOW GROUND WILL BE REPAIRED BY THE CONTRACTOR UNDER THE DIRECTION OF THE UTILITY OWNER AT THE CONTRACTOR'S EXPENSE. UNDER NO CIRCUMSTANCE WILL THE CONTRACTOR BACKFILL AN EXCAVATION AFFECTING SAID UTILITY WITHOUT FIRST RECEIVING PERMISSION FROM THE UTILITY OWNER.
- THE CONTRACTOR WILL NOTIFY THE FOLLOWING PARTIES AT LEAST FORTY EIGHT (48) HOURS, BUT NOT MORE THAN TEN (10) WORKING DAYS IN ADVANCE OF PROCEEDING WITH ANY EXCAVATION WORK:

TYPE OF WORK	NOTIFY AGENCIES
GAS, TELEPHONE, ELECTRICAL, CONDUIT & CABLE TV	MISS UTILITY (800-257-7777)
WATER MAIN & SEWERS	WASHINGTON SUBURBAN SANITARY COMMISSION (301-206-7342)
- SOME STREETLIGHT FOUNDATIONS SHOWN ON THE PLANS WILL BE REPLACED OR REMOVED. ALL EXISTING STREETLIGHT CONDUITS TO BE ABANDONED WILL BE SEALED WITH CONCRETE BEFORE INSTALLING THE NEW FOUNDATION OR BACKFILLING. REMOVE THE CONCRETE FOUNDATION COMPLETELY, SUCH AS ANCHOR BOLTS, CONDUITS, CABLE AND ALL OTHER ASSOCIATED DEVICES.
- WHERE A STREETLIGHT IS REPLACED IN THE SAME LOCATION, THE LIGHT WILL BE RESTORED WITHIN 5 WORKING DAYS. ALL LIGHTS WITHIN THE PROJECT LIMIT ARE THE CONTRACTOR'S RESPONSIBILITY TO REPAIR IN A TIMELY MANNER (WITHIN FORTY-EIGHT HOURS) FROM NTP UNTIL THE PROJECT IS ACCEPTED BY THE MONTGOMERY COUNTY GOVERNMENT.
- THE CONTRACTOR WILL KEEP PROPER RECORD OF ALL TRAFFIC AND PARKING SIGNS THAT WILL BE REMOVED PRIOR TO REMOVING THE STREETLIGHT POLE. THE SIGNS SHALL BE RELOCATED TO THE NEW POLE AT THE SAME HEIGHT AND ORIENTATION. A U-POST SHALL BE INSTALLED TO MOUNT THE REPLACED SIGN IF A PROPOSED NEW POLE HAS A DIFFERENT LOCATION.
- ALL POLE FOUNDATIONS WILL BE INSTALLED 3' FROM FACE OF CURB TO CENTER OF FOUNDATION UNLESS NOTED ON THE PLANS OR DIRECTED BY THE ENGINEER.
- THE CONTRACTOR SHALL BE RESPONSIBLE TO FIELD CHECK FOR ALL EXISTING LOCATIONS AND MAKE NECESSARY ADJUSTMENTS TO ACCOMMODATE THE NEW WORK AT NO ADDITIONAL COST TO THE MONTGOMERY COUNTY GOVERNMENT.

LEGEND:

-  EXISTING WOOD POLE TO REMAIN WITH COBRA-HEAD LUMINAIRE TO BE REMOVED
-  EXISTING PENDANT POST STREETLIGHT POLE TO REMAIN WITH COBRA-HEAD LUMINAIRE TO BE REMOVED
-  PROPOSED PENDANT POLE WITH LUMINAIRE
-  PROPOSED LUMINAIRE TO BE INSTALLED
-  EXISTING WHEATON DECORATIVE PEDESTRIAN METAL POLE
-  PROPOSED WHEATON DECORATIVE PEDESTRIAN METAL POLE
-  TRAFFIC SIGNAL LIGHT POLE
-  EXISTING ELECTRICAL HAND BOX
-  PROPOSED ELECTRICAL HAND BOX
-  EXISTING ELECTRICAL MANHOLE
-  EXISTING GAS MANHOLE
-  EXISTING GAS VALVE
-  EXISTING CATCH BASIN
-  EXISTING STORM DRAINAGE MANHOLE
-  EXISTING SANITARY SEWER MANHOLE
-  EXISTING WATER MANHOLE
-  EXISTING WATER VALVE
-  EXISTING WATER METER
-  EXISTING FIRE HYDRANT
-  EXISTING UNIDENTIFIED MANHOLE
-  EXISTING GAS LINE
-  EXISTING WATER LINE
-  PROPOSED UNDERGROUND ELECTRICAL PVC CONDUIT
-  EXISTING RIGHT OF WAY LINE

ABBREVIATION LIST:

- LED LIGHT-EMITTING DIODE
- HPS HIGH PRESSURE SODIUM VAPOR
- EXX-MP EXISTING WHEATON DECORATIVE PEDESTRIAN METAL POLE TO BE REMAINED
- RXX-MP EXISTING WHEATON DECORATIVE PEDESTRIAN METAL POLE TO BE REMOVED
- LXX-MP PROPOSED WHEATON DECORATIVE PEDESTRIAN METAL POLE TO BE INSTALLED
- RXX EXISTING STREETLIGHT LUMINAIRE TO BE REMOVED
- LXX STREETLIGHT LUMINAIRE TO BE INSTALLED
- WP WOOD POLE
- PP PENDANT POLE
- MP METAL POLE
- HBX ELECTRICAL HAND BOX

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					CHECKED BY: AYY	DATE:
					DRAWING NO.:	DATE:
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					Chief, Design Section	Date
					APPROVED	
					Chief, Division of Transportation Engineering	Date

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DIVISION OF TRANSPORTATION ENGINEERING
MONTGOMERY COUNTY, MARYLAND

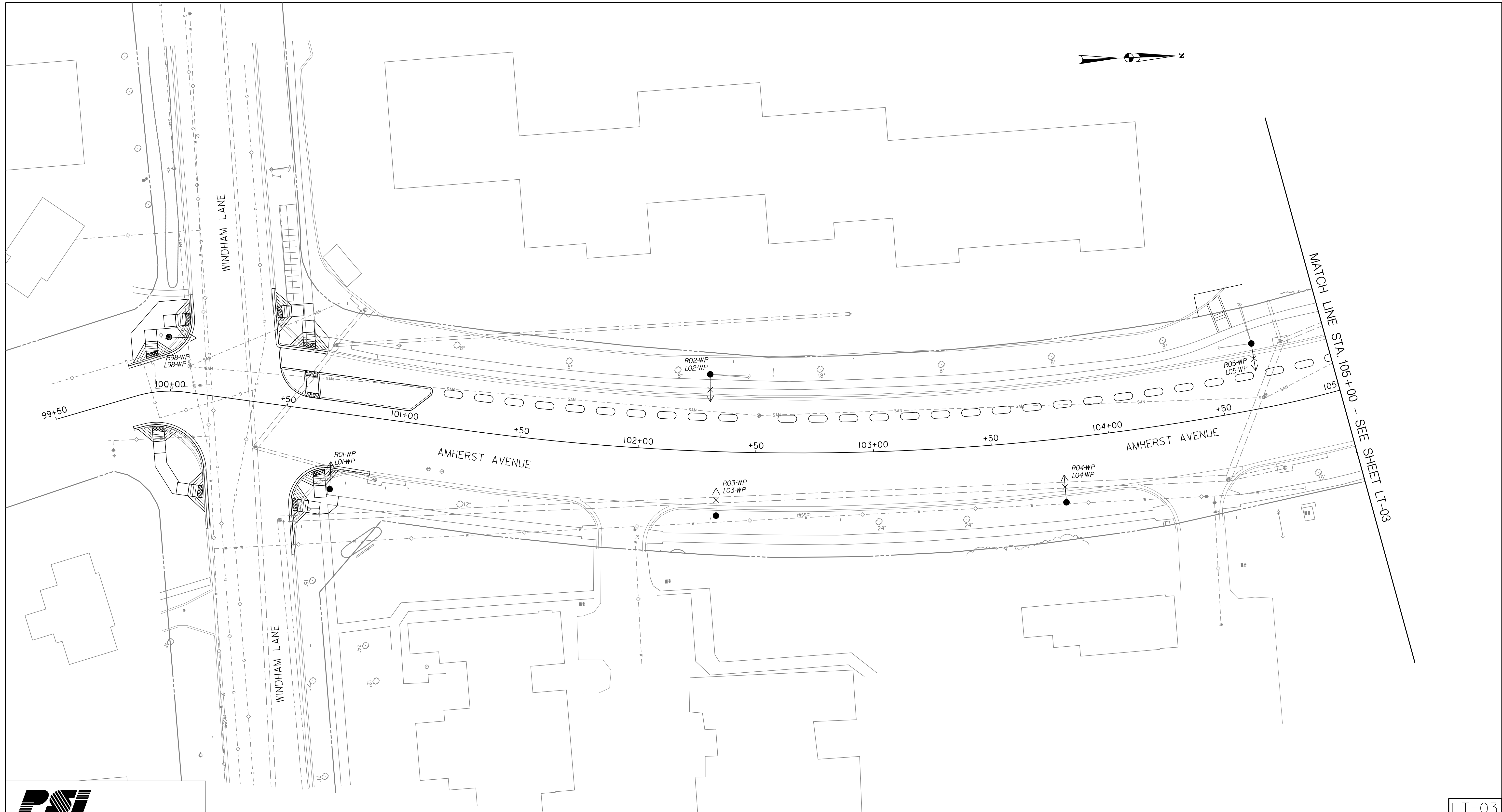
AMHERST AVENUE BIKEWAY
LEGENDS AND GENERAL NOTES
FOR STREET LIGHTING PLAN

SCALE: NONE

SHEET 122 of 207

LT-01

10/6/2023 P:\90540-stantec-amherst avenue bikeway\Lighting\Sheets\PL T-P001-AmherstAve.dgn



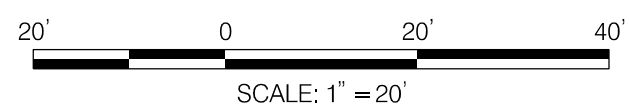
MATCH LINE STA. 105+00 - SEE SHEET LT-03

LT-03

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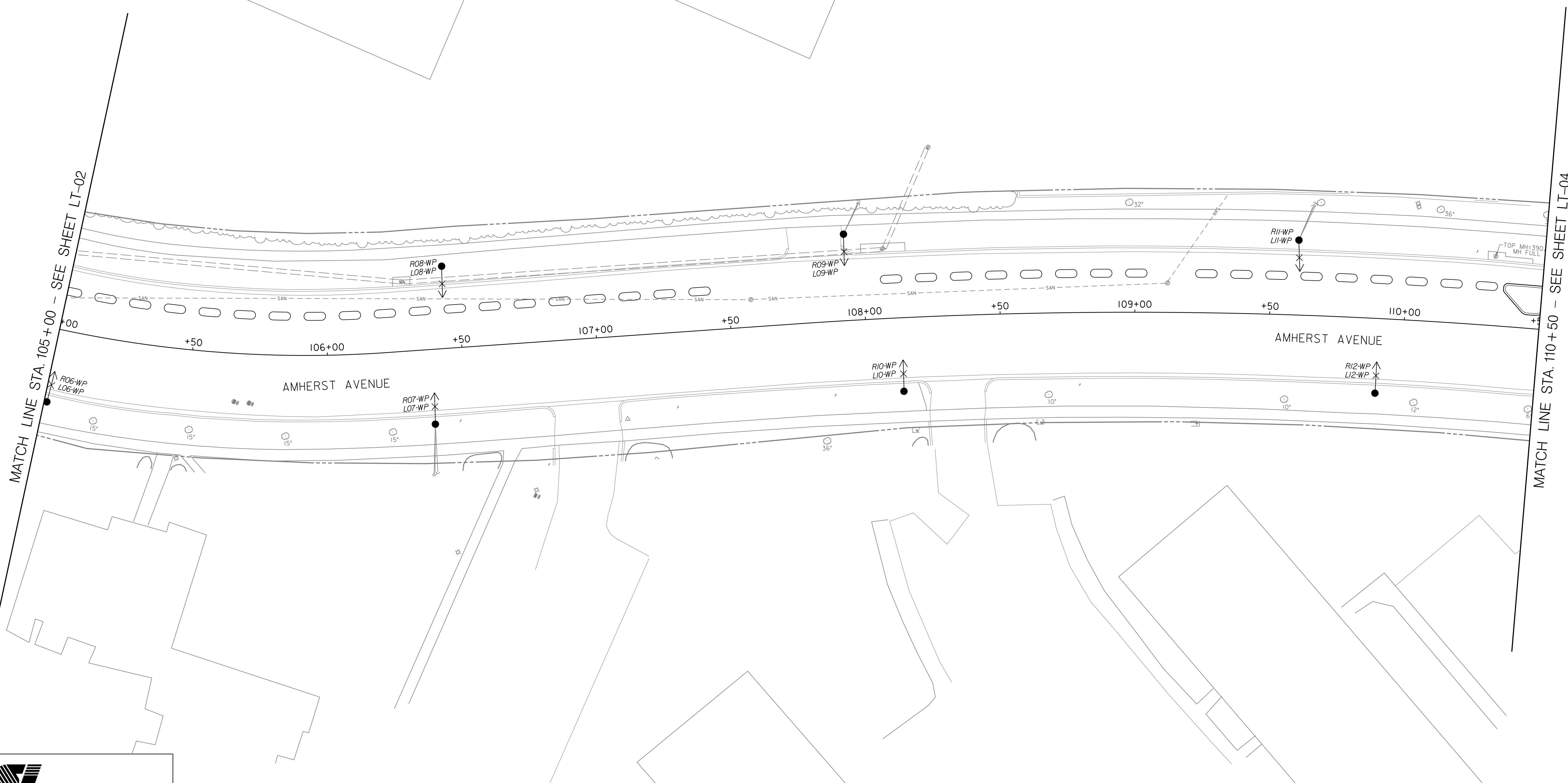
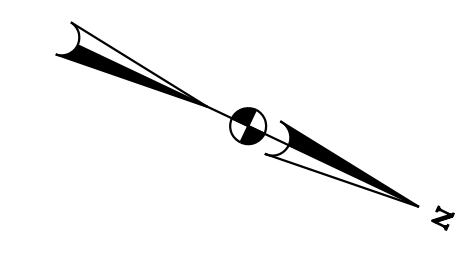
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APPROVED	
Chief, Division of Transportation Engineering _____	Date _____

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 MONTGOMERY COUNTY, MARYLAND

AMHERST AVENUE BIKEWAY
 STREET LIGHTING PLAN - 1

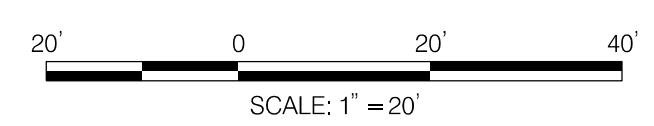


LT-04

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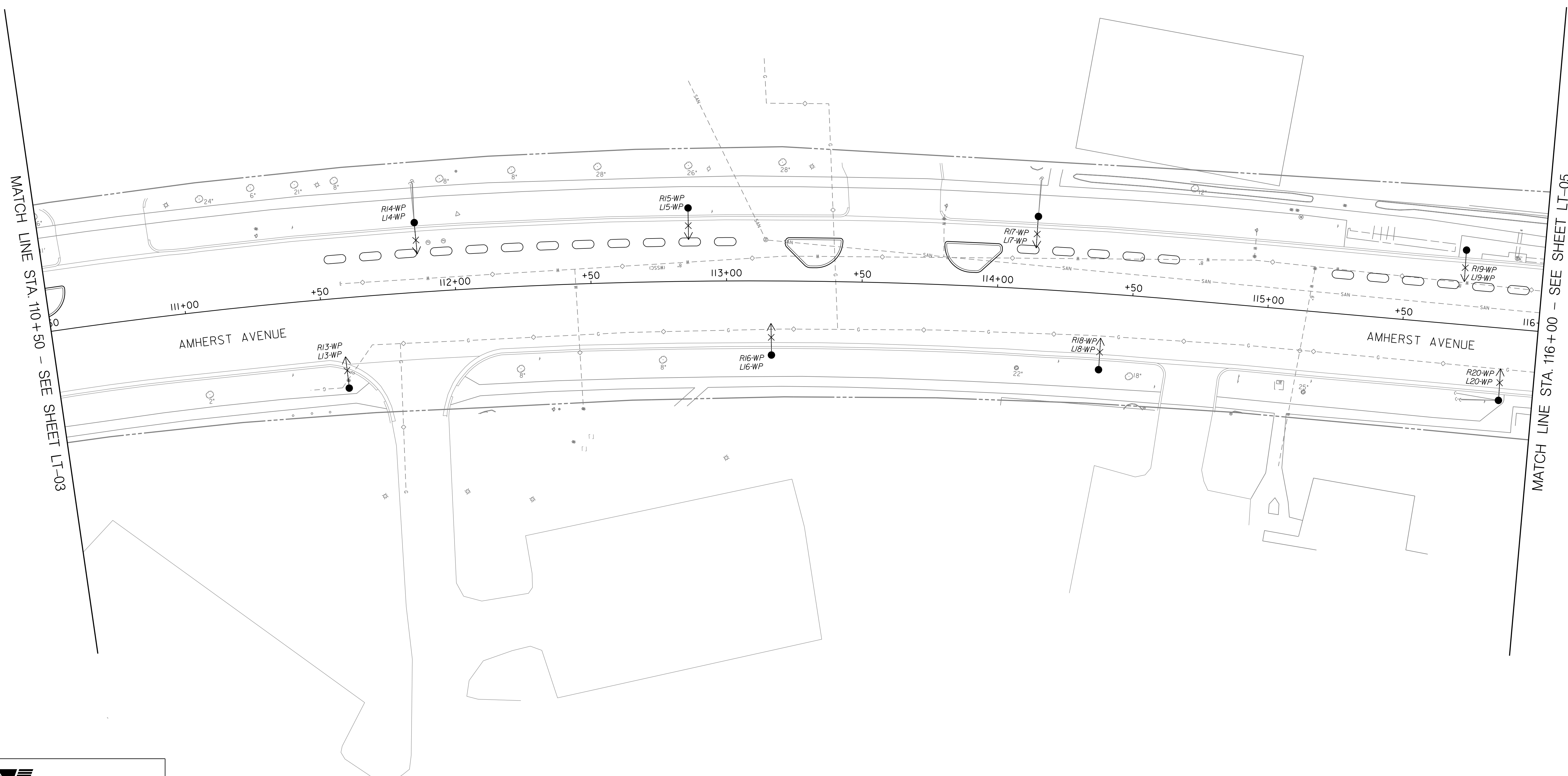
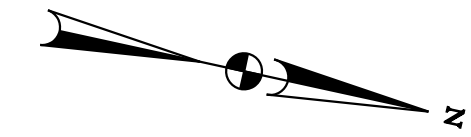
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DRAWN BY: SF	DATE: OCT, 2023
CHECKED BY: AYY	DATE:
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Chief, Design Section	Date
APPROVED	
Chief, Division of Transportation Engineering	Date

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AMHERST AVENUE BIKEWAY
 STREET LIGHTING PLAN - 2

10/6/2023 P:\90540-stantec-amherst_avenue_bikeway\Lighting\Sheets\PL T-P002-AmherstAve.dgn



MATCH LINE STA. 110+50 - SEE SHEET LT-03

MATCH LINE STA. 116+00 - SEE SHEET LT-05

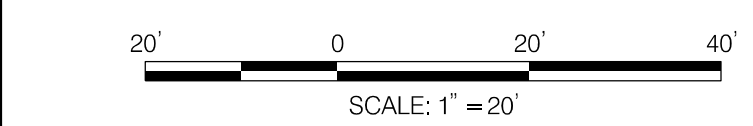
LT-05



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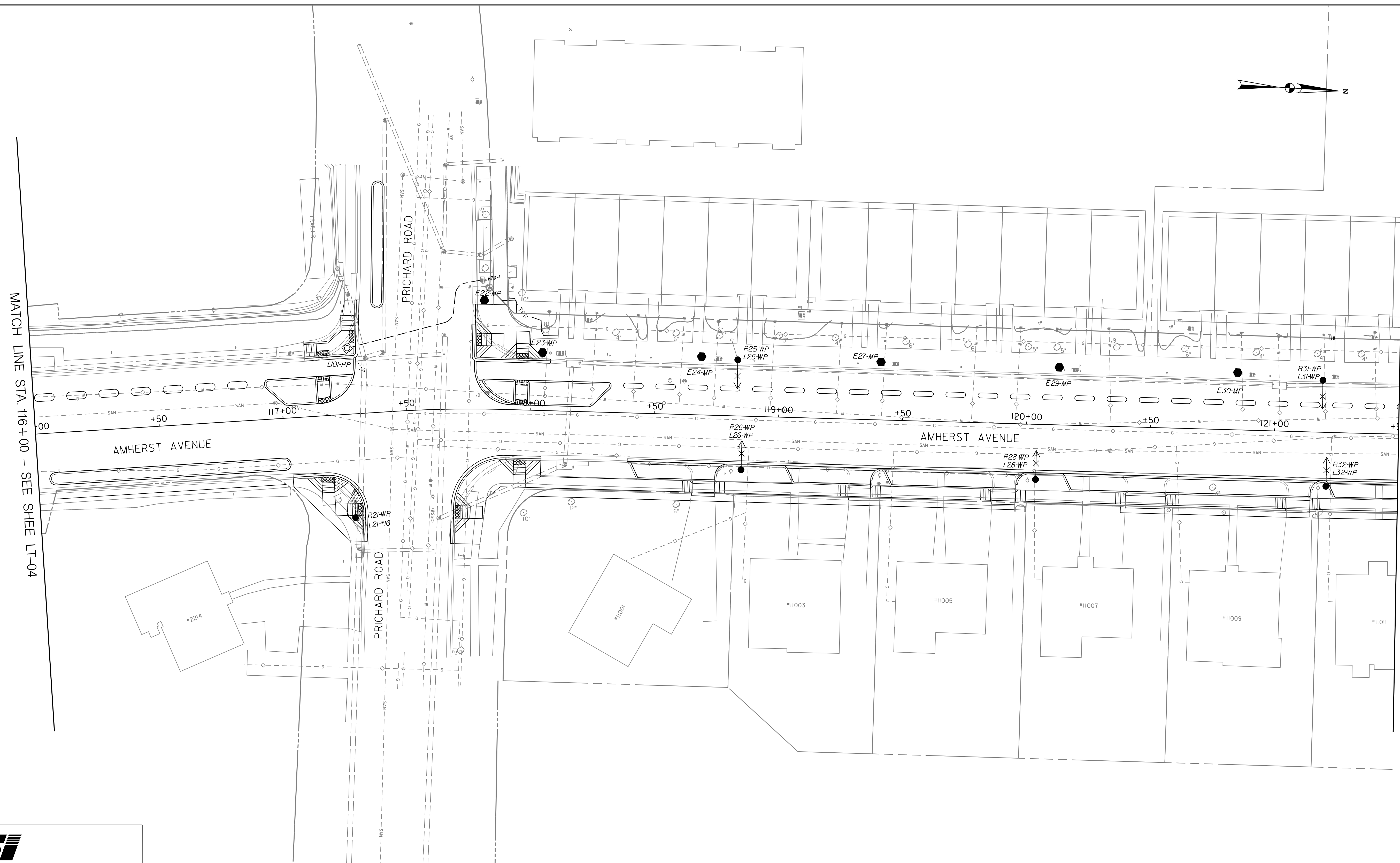
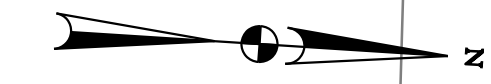
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Chief, Division of Transportation Engineering _____	Date _____

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AMHERST AVENUE BIKEWAY
STREET LIGHTING PLAN - 3

10/6/2023 P:\90540-stantec-amherst avenue bikeway\Lighting\Sheets\PL T-P003_AmherstAve.dgn



MATCH LINE STA. 116+00 - SEE SHEE LT-04

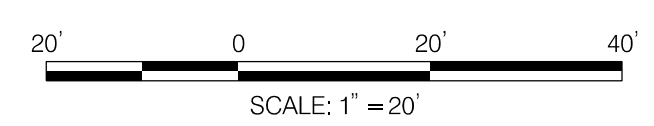
MATCH LINE STA. 121+50 - SEE SHEE LT-06

LT-06

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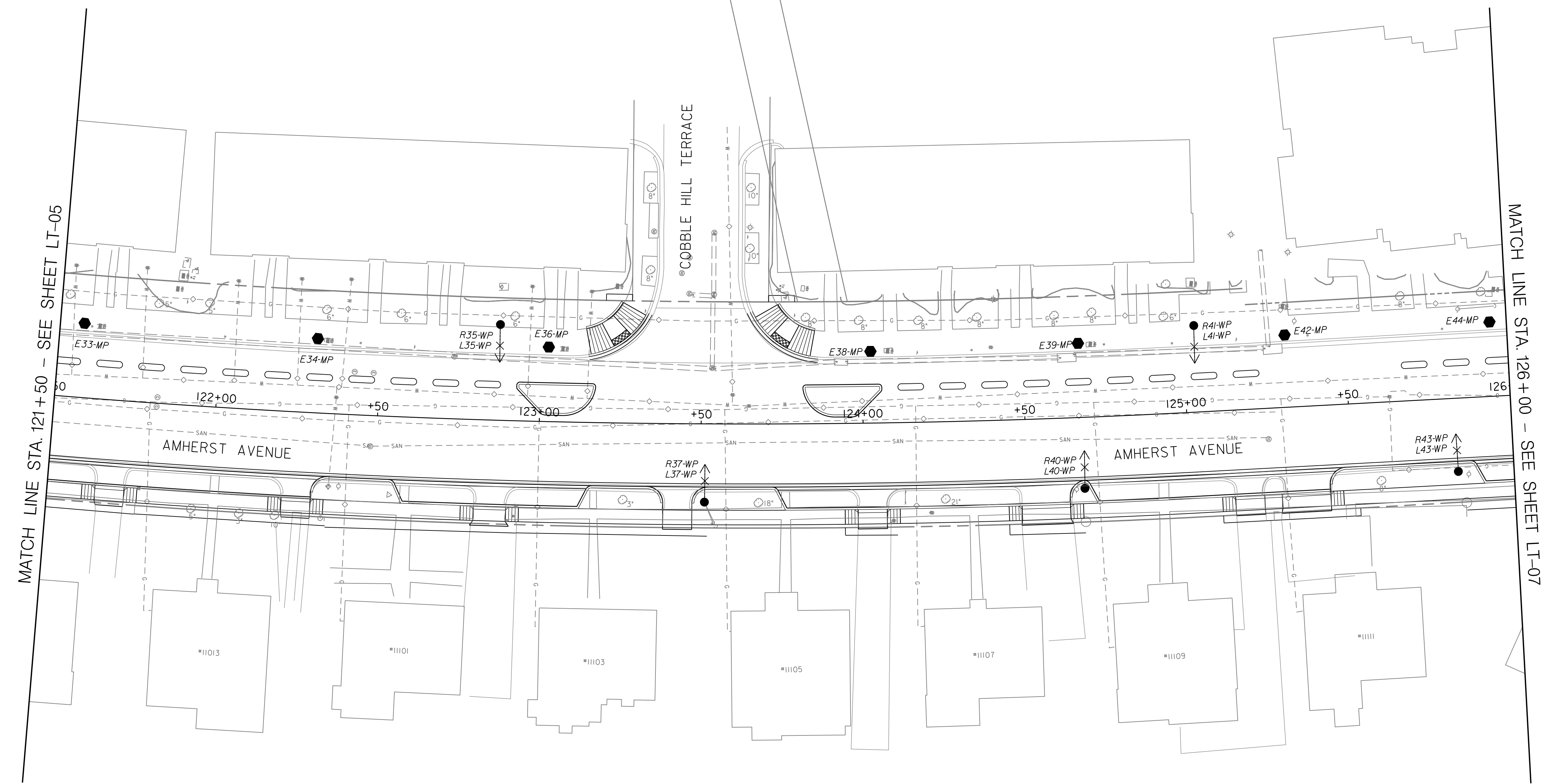
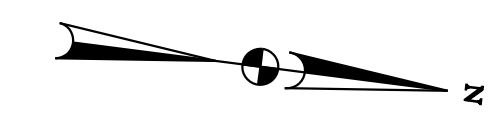
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AMHERST AVENUE BIKEWAY
 STREET LIGHTING PLAN - 4

SCALE: 1"=20' SHEET 127 of 207

10/6/2023 P:\90540-stantec-amherst avenue bikeway\Lighting\Sheets\PL T-P004_AmherstAve.dgn



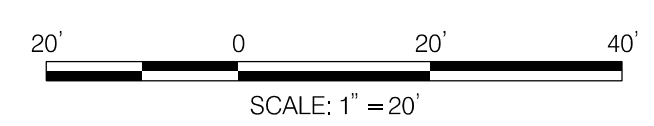
MATCH LINE STA. 121 + 50 - SEE SHEET LT-05

MATCH LINE STA. 126 + 00 - SEE SHEET LT-07

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LT-07

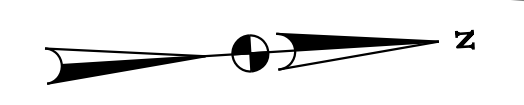
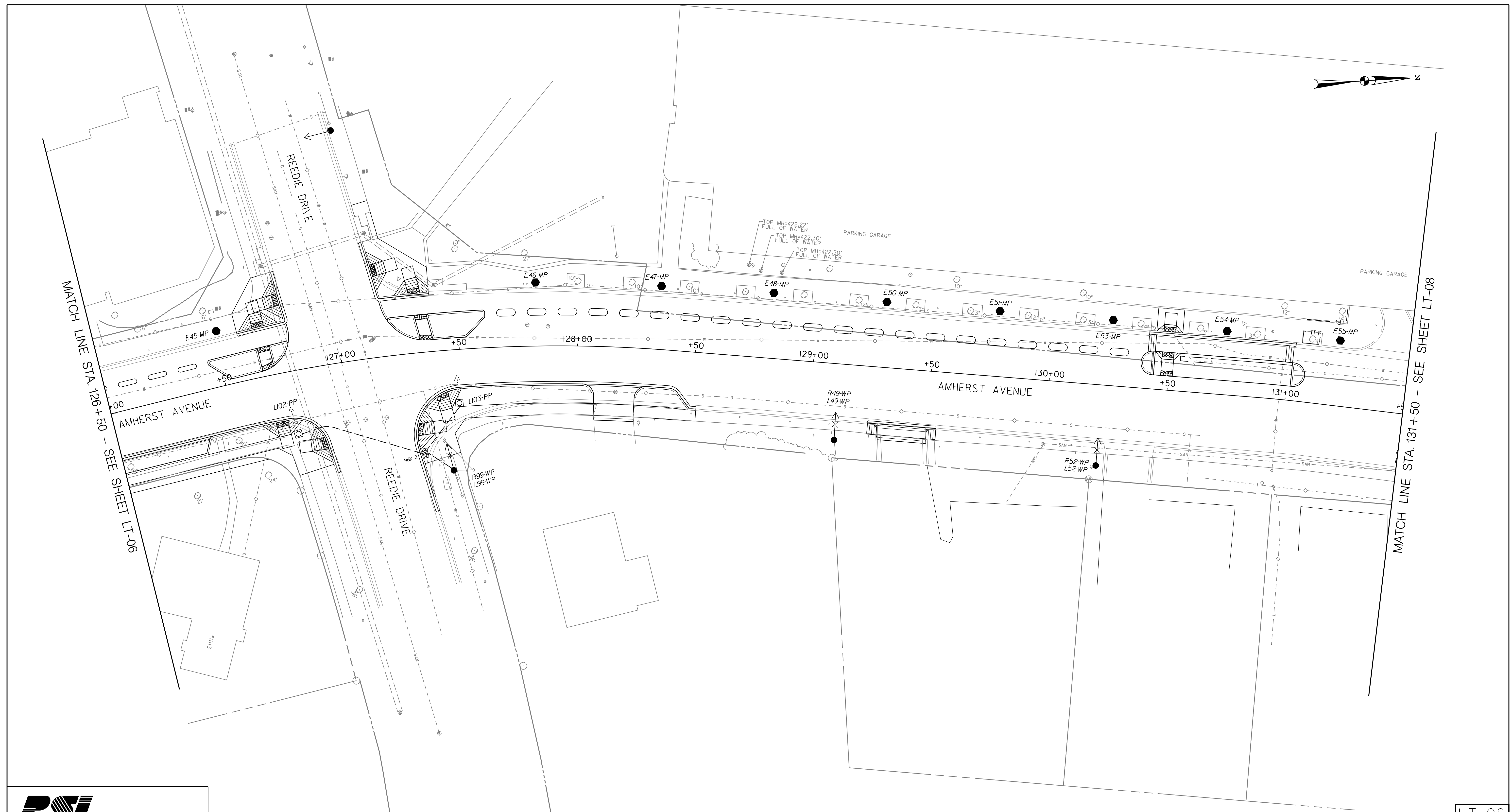
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AMHERST AVENUE BIKEWAY
STREET LIGHTING PLAN - 5

SCALE: 1"=20' SHEET 128 of 207

10/6/2023 P:\90540-stantec-amherst_avenue_bikeway\Lighting\Sheets\PL T-P005_AmherstAve.dgn

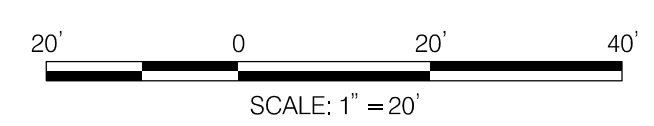
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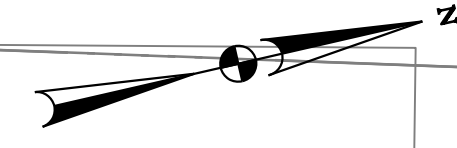
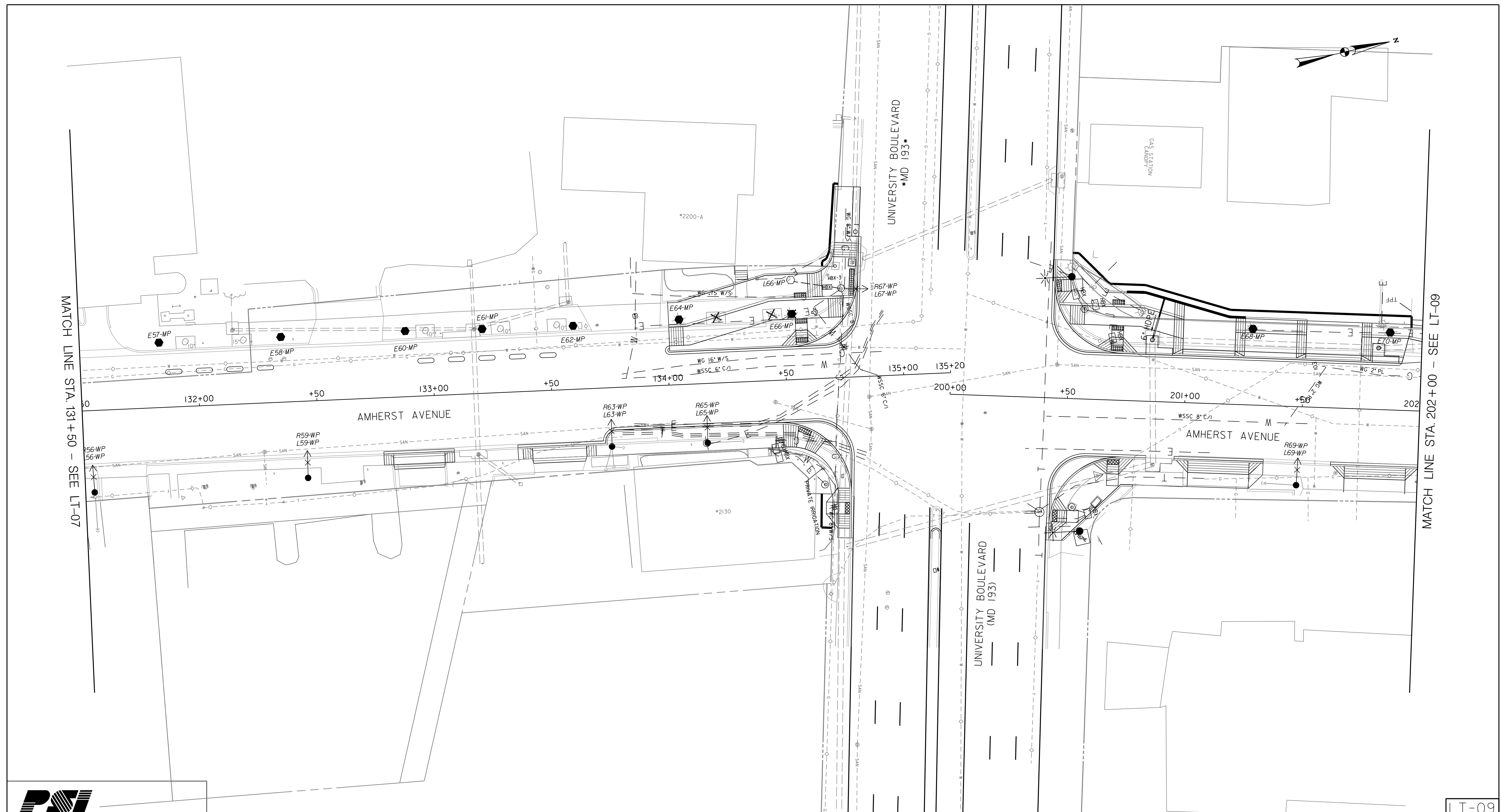
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 MONTGOMERY COUNTY, MARYLAND

AMHERST AVENUE BIKEWAY
 STREET LIGHTING PLAN - 6

SCALE: 1"=20' SHEET 129 of 207

LT-08

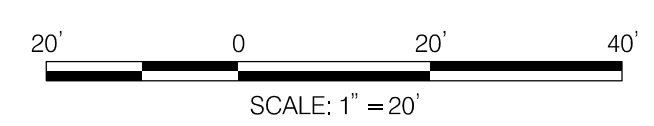
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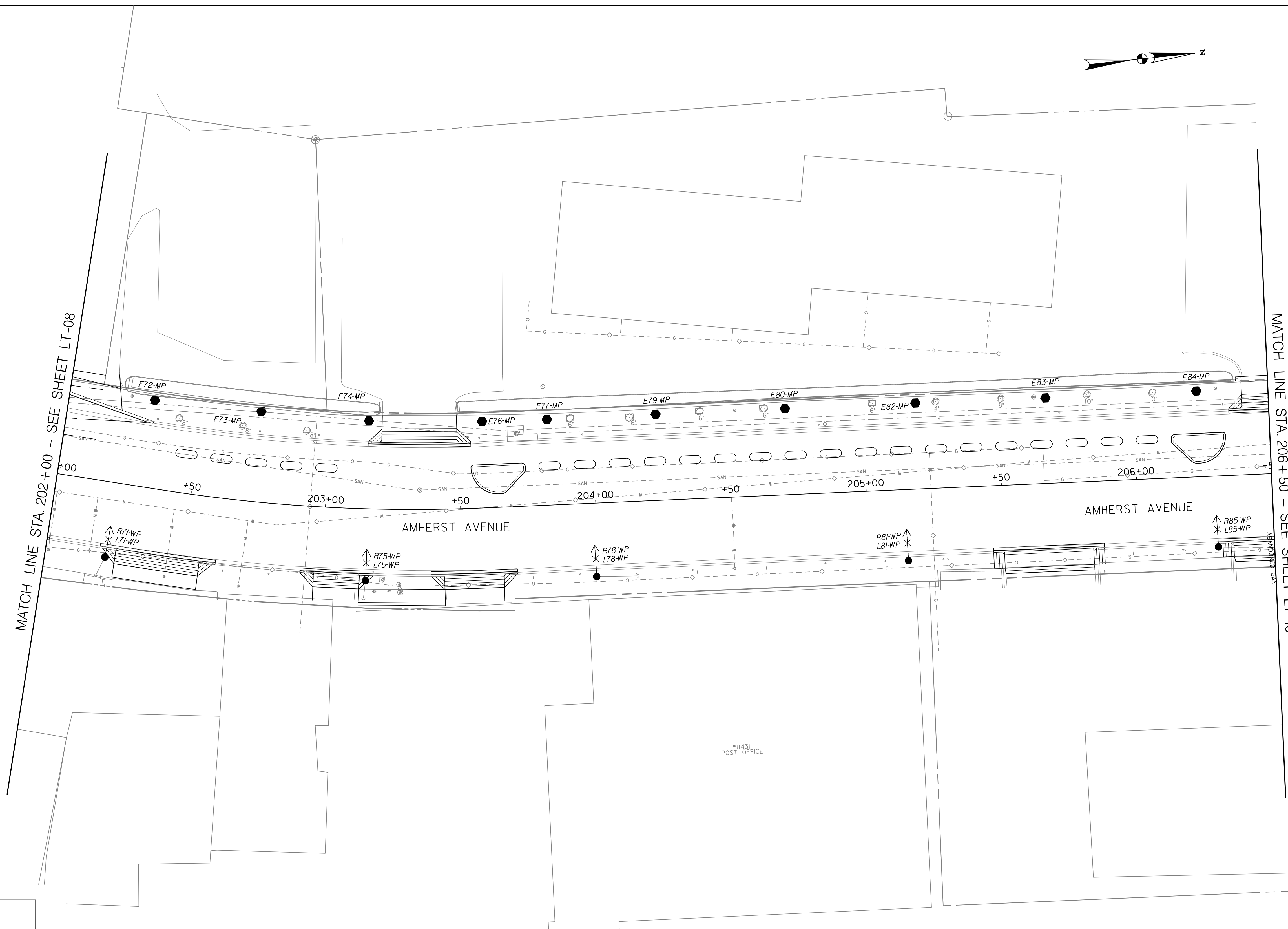
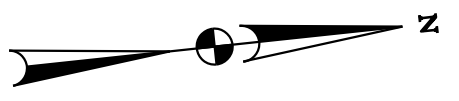
AMHERST AVENUE BIKEWAY
 STREET LIGHTING PLAN - 7

SCALE: 1"=20' SHEET 130 of 207

LT-09

MATCH LINE STA. 202+00 - SEE LT-09

MATCH LINE STA. 131+50 - SEE LT-07

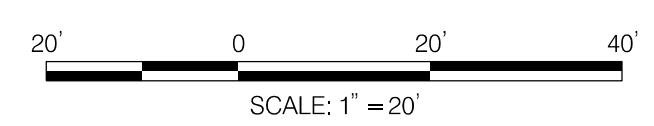


LT-10

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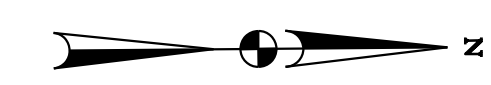
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AMHERST AVENUE BIKEWAY
 STREET LIGHTING PLAN - 8

10/6/2023 P:\90540-stantec-amherst avenue bikeway\Lighting\Sheets\PL T-P008_AmherstAve.dgn



MATCH LINE STA. 206 + 50 - SEE SHEET LT-09

MATCH LINE STA. 212 + 00 - SEE SHEET LT-11

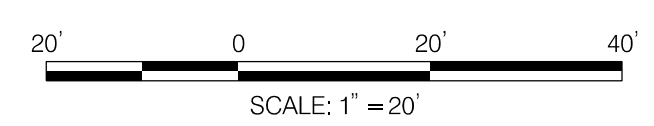


LT-II

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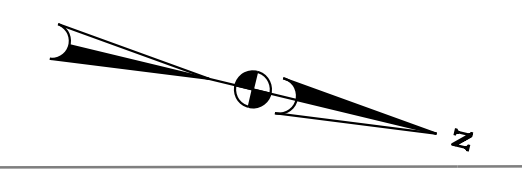
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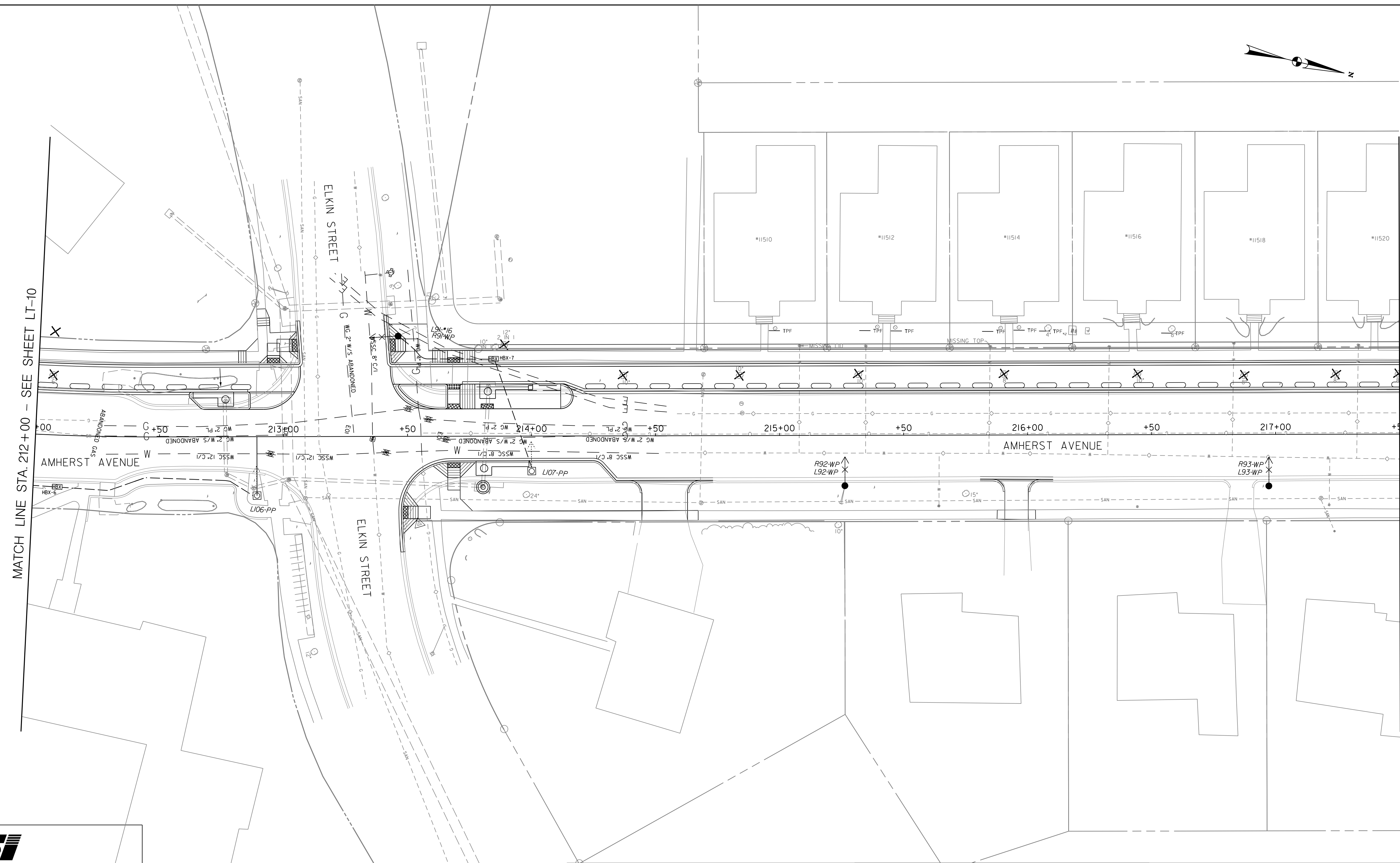
AMHERST AVENUE BIKEWAY
 STREET LIGHTING PLAN - 9

10/6/2023 P:\90540-stantec-amherst avenue bikeway\Lighting\Sheets\PL T-P009_AmherstAve.dgn



MATCH LINE STA. 212+00 - SEE SHEET LT-10

MATCH LINE STA. 217+50 - SEE SHEET LT-12

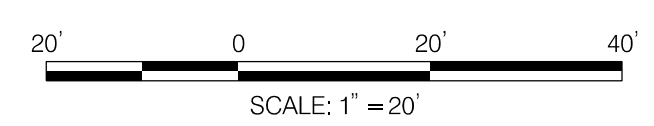


LT-12

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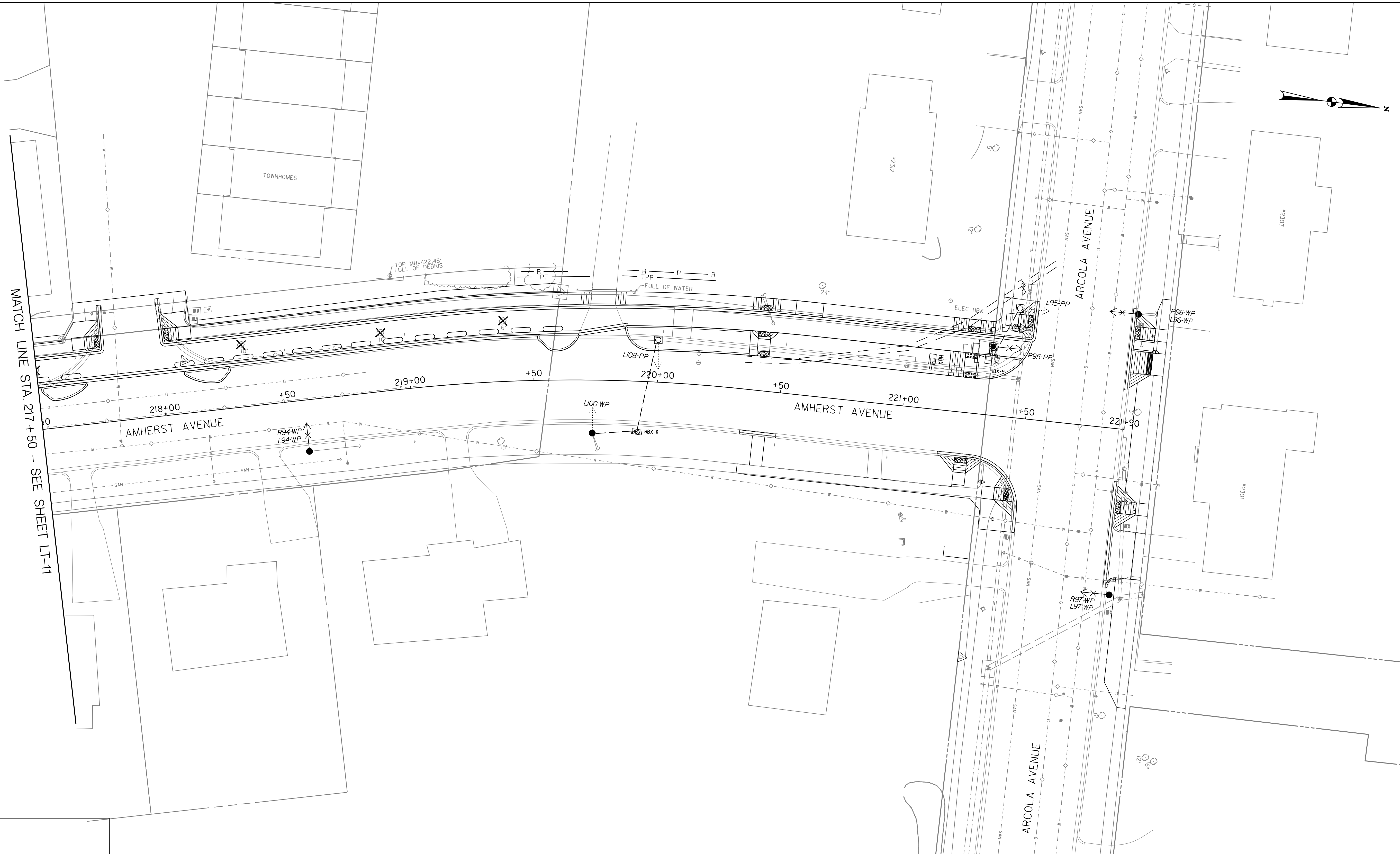
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AMHERST AVENUE BIKEWAY
 STREET LIGHTING PLAN - 10

SCALE: 1"=20' SHEET 133 of 207

10/6/2023 P:\90540-stantec-amherst_avenue_bikeway\Lighting\Sheets\PL T-P010-AmherstAve.dgn



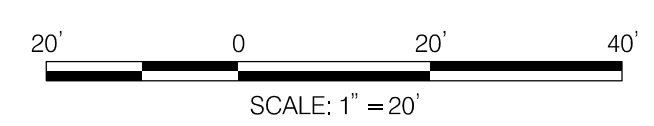
MATCH LINE STA. 217+50 - SEE SHEET LT-11

LT-13

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Bicycle and Pedestrian Priority Areas



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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: _____

NO.	REVISION	BY	APP'D	DATE

DESIGNED BY: AYY	DATE: OCT, 2023
DRAWN BY: SF	DATE: OCT, 2023
CHECKED BY: AYY	DATE:
DRAWING NO.:	DATE:
RECOMMENDED FOR APPROVAL	
Chief, Design Section _____	Date _____
APPROVED	
Chief, Division of Transportation Engineering _____	Date _____

DEPARTMENT OF TRANSPORTATION
DIVISION OF TRANSPORTATION ENGINEERING
MONTGOMERY COUNTY, MARYLAND

AMHERST AVENUE BIKEWAY
STREET LIGHTING PLAN - 11

10/6/2023 P:\90540-stantec-amherst avenue bikeway\Lighting\Sheets\PL T-P011_AmherstAve.dgn

STREETLIGHT CABLE SUMMARY							
SCHEDULE			QUANTITY				
			CABLE			GROUNDING	
FROM STA.	TO STA.	DISTANCE	4/0	#6	#10	#2	#8
*[L67-WP]	HBX-3	6	48			16	
HBX-3	[L66-MP]	16			52		26
*HBX-8	[L95-PP]	25			70		35
*HBX-1	[LI01-PP]	68			156		78
*[L99-WP]	HBX-2	15	75			25	
HBX-2	[LI02-PP]	56			132		66
HBX-2	[LI03-PP]	26			72		36
*[L85-WP]	HBX-4	49	177			59	
HBX-4	[LI04-PP]	8			36		18
*[L87-WP]	HBX-5	7	51			17	
HBX-5	[LI05-PP]	60			140		70
*[L90-WP]	HBX-6	21	93			31	
HBX-6	[LI06-PP]	84			188		94
*[L91-WP]	HBX-7	42	156			52	
HBX-7	[LI07-PP]	48			116		58
*[LI00-WP]	HBX-8	19	87			29	
HBX-8	[LI08-PP]	39			98		49
TOTAL		N/A	735		1112	213	530

STATION SCHEDULE						
LOCATION	STATION	OFFSET	STATUS		DESCRIPTION	
* L67-WP	134+75.19	37.84	LT	EXISTING	WOOD POLE WITH PROPOSED COBRA-HEAD LIGHT FIXTURE	
L66-MP	134+53.67	42.44	LT	PROPOSED	WHEATON DECORATIVE PEDESTRIAN METAL POLE	
HBX-3	134+69.11	39.99	LT	PROPOSED	ELECTRICAL HAND BOX	
* HBX-9	221+32.54	24.84	LT	EXISTING	ELECTRICAL HAND BOX	
LI01-PP	221+93.04	44.34	LT	PROPOSED	PENDANT POLE WITH PROPOSED COBRA-HEAD LIGHT	
* HBX-1	117+79.94	52.18	LT	EXISTING	ELECTRICAL HAND BOX	
LI01-PP	117+27.56	26.62	LT	PROPOSED	PENDANT POLE WITH PROPOSED COBRA-HEAD LIGHT	
* L99-WP	127+43.62	50.83	RT	EXISTING	WOOD POLE WITH PROPOSED COBRA-HEAD LIGHT FIXTURE	
HBX-2	127+31.38	42.39	RT	PROPOSED	ELECTRICAL HAND BOX	
LI02-PP	126+76.24	26.59	RT	PROPOSED	PENDANT POLE WITH PROPOSED COBRA-HEAD LIGHT	
LI03-PP	127+48.39	22.68	RT	PROPOSED	PENDANT POLE WITH PROPOSED COBRA-HEAD LIGHT	
* L85-WP	206+29.22	26.20	RT	EXISTING	WOOD POLE WITH PROPOSED COBRA-HEAD LIGHT FIXTURE	
HBX-4	206+76.72	23.56	RT	PROPOSED	ELECTRICAL HAND BOX	
LI04-PP	206+84.00	21.44	RT	PROPOSED	PENDANT POLE WITH PROPOSED COBRA-HEAD LIGHT	
* L87-WP	207+79.53	27.60	RT	EXISTING	WOOD POLE WITH PROPOSED COBRA-HEAD LIGHT FIXTURE	
HBX-5	207+86.02	26.67	RT	PROPOSED	ELECTRICAL HAND BOX	
LI05-PP	207+71.22	30.64	LT	PROPOSED	PENDANT POLE WITH PROPOSED COBRA-HEAD LIGHT	
* L90-WP	211+89.04	20.36	RT	EXISTING	WOOD POLE WITH PROPOSED COBRA-HEAD LIGHT FIXTURE	
HBX-6	212+09.56	20.85	RT	PROPOSED	ELECTRICAL HAND BOX	
LI06-PP	212+89.28	23.77	RT	PROPOSED	PENDANT POLE WITH PROPOSED COBRA-HEAD LIGHT	
* L91-WP	213+46.21	41.70	RT	EXISTING	WOOD POLE WITH PROPOSED COBRA-HEAD LIGHT FIXTURE	
HBX-7	213+84.63	32.83	LT	PROPOSED	ELECTRICAL HAND BOX	
LI07-PP	214+00.+00	17.36	LT	PROPOSED	PENDANT POLE WITH PROPOSED COBRA-HEAD LIGHT	
* LI00-WP	219+73.87	21.49	RT	EXISTING	WOOD POLE WITH PROPOSED COBRA-HEAD LIGHT FIXTURE	
HBX-8	219+92.52	20.50	RT	PROPOSED	ELECTRICAL HAND BOX	
LI08-PP	219+99.52	17.09	LT	PROPOSED	PENDANT POLE WITH PROPOSED COBRA-HEAD LIGHT	

CONDUIT SUMMARY				
LOCATION TO LOCATION	STATUS	SIZE (DIA.) (IN)	NUMBER OF CONDUITS	QUANTITY (FT)
*[L67-WP] - HBX-3	PROPOSED	2	1	6
HBX - [L66-MP]	PROPOSED	2	1	16
*HBX-8 - [L95-PP]	PROPOSED	2	1	25
* HBX-1 - [LI01-PP]	PROPOSED	2	1	68
* [L99-WP] - HBX-2	PROPOSED	2	1	15
HBX-2 - [LI02-PP]	PROPOSED	2	1	56
HBX-2 - [LI03-PP]	PROPOSED	2	1	26
* [L85-WP] - HBX-4	PROPOSED	2	1	49
HBX-4 - [LI04-PP]	PROPOSED	2	1	8
* [L87-WP] - HBX-5	PROPOSED	2	1	7
HBX-5 - [LI05-PP]	PROPOSED	2	1	60
* [L90-WP] - HBX-6	PROPOSED	2	1	21
HBX-6 - [LI06-PP]	PROPOSED	2	1	84
* [L91-WP] - HBX-7	PROPOSED	2	1	42
HBX-7 - [LI07-PP]	PROPOSED	2	1	48
* [LI00-WP] - HBX-8	PROPOSED	2	1	19
HBX-8 - [LI08-PP]	PROPOSED	2	1	39

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Chief, Design Section	Date
APPROVED	
Chief, Division of Transportation Engineering	Date

LT-14

DEPARTMENT OF TRANSPORTATION
DIVISION OF TRANSPORTATION ENGINEERING
MONTGOMERY COUNTY, MARYLAND

AMHERST AVENUE BIKEWAY
STREET LIGHTING
CABLE SCHEMATIC

SCALE: NONE SHEET 135 of 207



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10/9/2023 P:\80540-stantec-amherst avenue bikeway\Lighting\Sheets\PL-T-1001-AmherstAve.dgn

STREETLIGHT POLE INFORMATION (REMOVALS)						
LIGHT NO.	LOCATION	POLE TYPE	LIGHT SOURCE	LAMP WATTS	REMARKS	DATE REMOVED FROM SERVICE
R01-WP	1ST PEPCO LIGHT POLE E/S AMHERST AVE N/O WINDHAM LN	WOOD	HPS		CUT-OFF; REMOVE ARM AND LIGHT FIXTURE	
R02-WP	1ST PEPCO LIGHT POLE W/S AMHERST AVE N/O WINDHAM LN	WOOD	HPS		CUT-OFF; REMOVE ARM AND LIGHT FIXTURE	
R03-WP	2ND PEPCO LIGHT POLE E/S AMHERST AVE N/O WINDHAM LN	WOOD	HPS		CUT-OFF; REMOVE ARM AND LIGHT FIXTURE	
R04-WP	3RD PEPCO LIGHT POLE E/S AMHERST AVE N/O WINDHAM LN	WOOD	HPS		CUT-OFF; REMOVE ARM AND LIGHT FIXTURE	
R05-WP	2ND POLE PEPCO LIGHT W/S AMHERST AVE N/O WINDHAM LN	WOOD	HPS		CUT-OFF; REMOVE ARM AND LIGHT FIXTURE	
R06-WP	4TH PEPCO LIGHT POLE E/S AMHERST AVE N/O WINDHAM LN	WOOD	HPS		CUT-OFF; REMOVE ARM AND LIGHT FIXTURE	
R07-WP	5TH PEPCO LIGHT POLE E/S AMHERST AVE N/O WINDHAM LN	WOOD	HPS		CUT-OFF; REMOVE ARM AND LIGHT FIXTURE	
R08-WP	3RD PEPCO LIGHT POLE W/S AMHERST AVE N/O WINDHAM LN	WOOD	HPS		CUT-OFF; REMOVE ARM AND LIGHT FIXTURE	
R09-WP	4TH PEPCO LIGHT POLE W/S AMHERST AVE N/O WINDHAM LN	WOOD	HPS		CUT-OFF; REMOVE ARM AND LIGHT FIXTURE	
R10-WP	6TH PEPCO LIGHT POLE E/S AMHERST AVE N/O WINDHAM LN	WOOD	HPS		CUT-OFF; REMOVE ARM AND LIGHT FIXTURE	
R11-WP	5TH PEPCO LIGHT POLE W/S AMHERST AVE N/O WINDHAM LN	WOOD	HPS		CUT-OFF; REMOVE ARM AND LIGHT FIXTURE	
R12-WP	7TH PEPCO LIGHT POLE E/S AMHERST AVE N/O WINDHAM LN	WOOD	HPS		CUT-OFF; REMOVE ARM AND LIGHT FIXTURE	
R13-WP	8TH PEPCO LIGHT POLE E/S AMHERST AVE N/O WINDHAM LN	WOOD	HPS		CUT-OFF; REMOVE ARM AND LIGHT FIXTURE	
R14-WP	6TH PEPCO LIGHT POLE W/S AMHERST AVE N/O WINDHAM LN	WOOD	HPS		CUT-OFF; REMOVE ARM AND LIGHT FIXTURE	
R15-WP	7TH PEPCO LIGHT POLE W/S AMHERST AVE N/O WINDHAM LN	WOOD	HPS		CUT-OFF; REMOVE ARM AND LIGHT FIXTURE	
R16-WP	9TH PEPCO LIGHT POLE E/S AMHERST AVE N/O WINDHAM LN	WOOD	HPS		CUT-OFF; REMOVE ARM AND LIGHT FIXTURE	
R17-WP	8TH PEPCO LIGHT POLE W/S AMHERST AVE N/O WINDHAM LN	WOOD	HPS		CUT-OFF; REMOVE ARM AND LIGHT FIXTURE	
R18-WP	10TH PEPCO LIGHT POLE E/S AMHERST AVE N/O WINDHAM LN	WOOD	HPS		CUT-OFF; REMOVE ARM AND LIGHT FIXTURE	
R19-WP	9TH PEPCO LIGHT POLE W/S AMHERST AVE N/O WINDHAM LN	WOOD	HPS		CUT-OFF; REMOVE ARM AND LIGHT FIXTURE	
R20-WP	11TH PEPCO LIGHT POLE E/S AMHERST AVE N/O WINDHAM LN	WOOD	HPS		CUT-OFF; REMOVE ARM AND LIGHT FIXTURE	
R21-WP	SE CORNER AMHERST AVE & PRICHARD RD	WOOD	HPS		CUT-OFF; REMOVE ARM AND LIGHT FIXTURE	
E22-MP	NW CORNER AMHERST AVE & PRICHARD RD	METAL	LED	100	ETR	
E23-MP	1ST WHEATON PED POLE W/S AMHERST AVE N/O RICHARD RD	METAL	LED	100	ETR	
E24-MP	2ND WHEATON PED POLE W/S AMHERST AVE N/O RICHARD RD	METAL	LED	100	ETR	
R25-WP	1ST PEPCO LIGHT POLE W/S AMHERST AVE N/O PRICHARD RD	WOOD	HPS		CUT-OFF; REMOVE ARM AND LIGHT FIXTURE	
R26-WP	1ST PEPCO LIGHT POLE E/S AMHERST AVE N/O PRICHARD RD	WOOD	HPS		CUT-OFF; REMOVE ARM AND LIGHT FIXTURE	
E27-MP	3RD WHEATON PED POLE W/S AMHERST AVE N/O RICHARD RD	METAL	LED	100	ETR	
R28-WP	2ND PEPCO LIGHT POLE E/S AMHERST AVE N/O PRICHARD RD	WOOD	HPS		CUT-OFF; REMOVE ARM AND LIGHT FIXTURE	
E29-MP	4TH WHEATON PED POLE W/S AMHERST AVE N/O RICHARD RD	METAL	LED	100	ETR	
E27-MP	5TH WHEATON PED POLE W/S AMHERST AVE N/O RICHARD RD	METAL	LED	100	ETR	
R31-WP	2ND PEPCO LIGHT POLE W/S AMHERST AVE N/O PRICHARD RD	WOOD	HPS		CUT-OFF; REMOVE ARM AND LIGHT FIXTURE	
R32-WP	3RD PEPCO LIGHT POLE E/S AMHERST AVE N/O PRICHARD RD	WOOD	HPS		ETR	
E33-MP	6TH WHEATON PED POLE W/S AMHERST AVE N/O RICHARD RD	METAL	LED	100	ETR	
E34-MP	7TH WHEATON PED POLE W/S AMHERST AVE N/O RICHARD RD	METAL	LED	100	ETR	
R35-WP	3RD PEPCO LIGHT POLE W/S AMHERST AVE N/O PRICHARD RD	WOOD	HPS		CUT-OFF; REMOVE ARM AND LIGHT FIXTURE	
E36-MP	WHEATON PED POLE W/S AMHERST AVE S/O COBBLE HILL TERRACE	METAL	LED	100	ETR	
R37-WP	4TH PEPCO LIGHT POLE E/S AMHERST AVE N/O PRICHARD RD	WOOD	HPS		CUT-OFF; REMOVE ARM AND LIGHT FIXTURE	
E38-MP	1ST WHEATON PED POLE W/S AMHERST AVE N/O COBBLE HILL TERRACE	METAL	LED	100	ETR	
E39-MP	2ND WHEATON PED POLE W/S AMHERST AVE N/O COBBLE HILL TERRACE	METAL	LED	100	ETR	
R40-WP	5TH PEPCO LIGHT POLE E/S AMHERST AVE N/O PRICHARD RD	WOOD	HPS		CUT-OFF; REMOVE ARM AND LIGHT FIXTURE	
R41-WP	4TH PEPCO LIGHT POLE W/S AMHERST AVE N/O PRICHARD RD	WOOD	HPS		CUT-OFF; REMOVE ARM AND LIGHT FIXTURE	
E42-MP	3RD WHEATON PED POLE W/S AMHERST AVE N/O COBBLE HILL TERRACE	METAL	LED	100	ETR	
R43-WP	6TH PEPCO LIGHT POLE E/S AMHERST AVE N/O PRICHARD RD	WOOD	HPS		CUT-OFF; REMOVE ARM AND LIGHT FIXTURE	
E44-MP	1ST WHEATON PED POLE W/S AMHERST AVE S/O REEDIE DR	METAL	LED	100	ETR	
E45-MP	2ND WHEATON PED POLE W/S AMHERST AVE S/O REEDIE DR	METAL	LED	100	ETR	
E46-MP	1ST WHEATON PED POLE W/S AMHERST AVE N/O COBBLE HILL TERRACE	METAL	LED	100	ETR	

STREETLIGHT POLE INFORMATION (REMOVALS)						
LIGHT NO.	LOCATION	POLE TYPE	LIGHT SOURCE	LAMP WATTS	REMARKS	DATE REMOVED FROM SERVICE
E47-MP	2ND WHEATON PED POLE W/S AMHERST AVE N/O COBBLE HILL TERRACE	METAL	LED	100	ETR	
E48-MP	3RD WHEATON PED POLE W/S AMHERST AVE N/O COBBLE HILL TERRACE	METAL	LED	100	ETR	
R49-WP	1ST PEPCO LIGHT POLE E/S AMHERST AVE N/O REEDIE DR	WOOD	HPS		CUT-OFF; REMOVE ARM AND LIGHT FIXTURE	
E50-MP	4TH WHEATON PED POLE W/S AMHERST AVE N/O COBBLE HILL TERRACE	METAL	LED	100	ETR	
E51-MP	5TH WHEATON PED POLE W/S AMHERST AVE N/O COBBLE HILL TERRACE	METAL	LED	100	ETR	
R52-WP	2ND PEPCO LIGHT POLE E/S AMHERST AVE N/O REEDIE DR	WOOD	HPS		CUT-OFF; REMOVE ARM AND LIGHT FIXTURE	
E53-MP	6TH WHEATON PED POLE W/S AMHERST AVE N/O COBBLE HILL TERRACE	METAL	LED	100	ETR	
E54-MP	7TH WHEATON PED POLE W/S AMHERST AVE N/O COBBLE HILL TERRACE	METAL	LED	100	ETR	
E55-MP	8TH WHEATON PED POLE W/S AMHERST AVE N/O COBBLE HILL TERRACE	METAL	LED	100	ETR	
R56-WP	3RD PEPCO LIGHT POLE E/S AMHERST AVE N/O REEDIE DR	WOOD	HPS		CUT-OFF; REMOVE ARM AND LIGHT FIXTURE	
E57-MP	9TH WHEATON PED POLE W/S AMHERST AVE N/O COBBLE HILL TERRACE	METAL	LED	100	ETR	
E58-MP	10TH WHEATON PED POLE W/S AMHERST AVE N/O COBBLE HILL TERRACE	METAL	LED	100	ETR	
R59-WP	4TH PEPCO LIGHT POLE E/S AMHERST AVE N/O REEDIE DR	WOOD	HPS		CUT-OFF; REMOVE ARM AND LIGHT FIXTURE	
E60-MP	1ST WHEATON PED POLE W/S AMHERST AVE S/O UNIVERSITY BLVD	METAL	LED	100	ETR	
E61-MP	2ND WHEATON PED POLE W/S AMHERST AVE S/O UNIVERSITY BLVD	METAL	LED	100	ETR	
E62-MP	3RD WHEATON PED POLE W/S AMHERST AVE S/O UNIVERSITY BLVD	METAL	LED	100	ETR	
R63-WP	5TH PEPCO LIGHT POLE E/S AMHERST AVE N/O REEDIE DR	WOOD	HPS		CUT-OFF; REMOVE ARM AND LIGHT FIXTURE	
E64-MP	4TH WHEATON PED POLE W/S AMHERST AVE S/O UNIVERSITY BLVD	METAL	LED	100	ETR	
R65-WP	6TH PEPCO LIGHT POLE E/S AMHERST AVE N/O REEDIE DR	WOOD	HPS		CUT-OFF; REMOVE ARM AND LIGHT FIXTURE	
E66-MP	WHEATON PED POLE SW CORNER AMHERST AVE & UNIVERSITY BLVD	PED POLE	LED		REMOVE POLE	
R67-WP	SW CORNER AMHERST AVE & UNIVERSITY BLVD	WOOD	HPS		CUT-OFF; REMOVE ARM AND LIGHT FIXTURE	
E68-MP	1ST WHEATON PED POLE W/S AMHERST AVE N/O UNIVERSITY BLVD	METAL	LED	100	ETR	
R69-WP	1ST PEPCO LIGHT POLE E/S AMHERST AVE N/O UNIVERSITY BLVD	WOOD	HPS		CUT-OFF; REMOVE ARM AND LIGHT FIXTURE	
E70-MP	2ND WHEATON PED POLE W/S AMHERST AVE N/O UNIVERSITY BLVD	METAL	LED	100	ETR	
R71-WP	2ND PEPCO LIGHT POLE E/S AMHERST AVE N/O UNIVERSITY BLVD	WOOD	HPS		CUT-OFF; REMOVE ARM AND LIGHT FIXTURE	
E72-MP	3RD WHEATON PED POLE W/S AMHERST AVE N/O UNIVERSITY BLVD	METAL	LED	100	ETR	
E73-MP	4TH WHEATON PED POLE W/S AMHERST AVE N/O UNIVERSITY BLVD	METAL	LED	100	ETR	
E74-MP	5TH WHEATON PED POLE W/S AMHERST AVE N/O UNIVERSITY BLVD	METAL	LED	100	ETR	
R75-WP	3RD PEPCO LIGHT POLE E/S AMHERST AVE N/O UNIVERSITY BLVD	WOOD	HPS		CUT-OFF; REMOVE ARM AND LIGHT FIXTURE	
E76-MP	6TH WHEATON PED POLE W/S AMHERST AVE N/O UNIVERSITY BLVD	METAL	LED	100	ETR	
E77-MP	7TH WHEATON PED POLE W/S AMHERST AVE N/O UNIVERSITY BLVD	METAL	LED	100	ETR	
R78-WP	4TH PEPCO LIGHT POLE E/S AMHERST AVE N/O UNIVERSITY BLVD	WOOD	HPS		CUT-OFF; REMOVE ARM AND LIGHT FIXTURE	
E79-MP	8TH WHEATON PED POLE W/S AMHERST AVE N/O UNIVERSITY BLVD	METAL	LED	100	ETR	
E80-MP	9TH WHEATON PED POLE W/S AMHERST AVE N/O UNIVERSITY BLVD	METAL	LED	100	ETR	
R81-WP	5TH PEPCO LIGHT POLE E/S AMHERST AVE N/O UNIVERSITY BLVD	WOOD	HPS		CUT-OFF; REMOVE ARM AND LIGHT FIXTURE	
E82-MP	10TH WHEATON PED POLE W/S AMHERST AVE N/O UNIVERSITY BLVD	METAL	LED	100	ETR	
E83-MP	11TH WHEATON PED POLE W/S AMHERST AVE N/O UNIVERSITY BLVD	METAL	LED	100	ETR	
E84-MP	12TH WHEATON PED POLE W/S AMHERST AVE N/O UNIVERSITY BLVD	METAL	LED	100	ETR	
R85-WP	6TH PEPCO LIGHT POLE E/S AMHERST AVE N/O UNIVERSITY BLVD	WOOD	HPS		CUT-OFF; REMOVE ARM AND LIGHT FIXTURE	
E86-MP	13TH WHEATON PED POLE W/S AMHERST AVE N/O UNIVERSITY BLVD	METAL	LED	100	ETR	
R87-WP	7TH PEPCO LIGHT POLE E/S AMHERST AVE N/O UNIVERSITY BLVD	WOOD	HPS		CUT-OFF; REMOVE ARM AND LIGHT FIXTURE	
R88-WP	8TH PEPCO LIGHT POLE E/S AMHERST AVE N/O UNIVERSITY BLVD	WOOD	HPS		CUT-OFF; REMOVE ARM AND LIGHT FIXTURE	
R89-WP	9TH PEPCO LIGHT POLE E/S AMHERST AVE N/O UNIVERSITY BLVD	WOOD	HPS		CUT-OFF; REMOVE ARM AND LIGHT FIXTURE	
R90-WP	10TH PEPCO LIGHT POLE E/S AMHERST AVE N/O UNIVERSITY BLVD	WOOD	HPS		CUT-OFF; REMOVE ARM AND LIGHT FIXTURE	
R91-WP	NW CORNER AMHERST AVE & ELKIN ST	WOOD	HPS		CUT-OFF; REMOVE ARM AND LIGHT FIXTURE	
R92-WP	1ST PEPCO LIGHT POLE E/S AMHERST AVE N/O ELKIN ST	WOOD	HPS		CUT-OFF; REMOVE ARM AND LIGHT FIXTURE	
R93-WP	2ND PEPCO LIGHT POLE E/S AMHERST AVE N/O ELKIN ST	WOOD	HPS		CUT-OFF; REMOVE ARM AND LIGHT FIXTURE	
R94-WP	3ND PEPCO LIGHT POLE E/S AMHERST AVE N/O ELKIN ST	WOOD	HPS		CUT-OFF; REMOVE ARM AND LIGHT FIXTURE	
R95-PP	SW CORNER AMHERST AVE & ARCOLA AVE	PENDANT	HPS		REMOVE POLE, ARM AND LIGHT FIXTURE	
R96-WP	NW CORNER AMHERST AVE & ARCOLA AVE	WOOD	HPS		CUT-OFF; REMOVE ARM AND LIGHT FIXTURE	
R97-WP	NE CORNER AMHERST AVE & ARCOLA AVE	WOOD	HPS		CUT-OFF; REMOVE ARM AND LIGHT FIXTURE	
R98-WP	SW CORNER AMHERST AVE & WINDHAM LN	WOOD	HPS		CUT-OFF; REMOVE ARM AND LIGHT FIXTURE	
R99-WP	NE CORNER AMHERST AVE & REEDIE DR	WOOD	HPS		CUT-OFF; REMOVE ARM AND LIGHT FIXTURE	

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					Chief, Design Section	Date
APPROVED						
					Chief, Division of Transportation Engineering	Date

DEPARTMENT OF TRANSPORTATION
DIVISION OF TRANSPORTATION ENGINEERING
MONTGOMERY COUNTY, MARYLAND

AMHERST AVENUE BIKEWAY
STREET LIGHTING TABLES - 1



PROFESSIONAL CERTIFICATION:
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LIGHT NO.	LOCATION	POLE	TYPE	LIGHT SOURCE	LAMP WATTS	REMARKS	COLOR TEMPERATURE	NOTES	DATE IN SERVICE
L01-WP	1ST PEPKO LIGHT POLE E/S AMHERST AVE N/O WINDHAM LN	WOOD		LED	100		3500k	30FT MOUNTING HEIGHT. 8FT ARM	
L02-WP	1ST PEPKO LIGHT POLE W/S AMHERST AVE N/O WINDHAM LN	WOOD		LED	100		3500k	30FT MOUNTING HEIGHT. 8FT ARM	
L03-WP	2ND PEPKO LIGHT POLE E/S AMHERST AVE N/O WINDHAM LN	WOOD		LED	100		3500k	30FT MOUNTING HEIGHT. 8FT ARM	
L04-WP	3RD PEPKO LIGHT POLE E/S AMHERST AVE N/O WINDHAM LN	WOOD		LED	100		3500k	30FT MOUNTING HEIGHT. 8FT ARM	
L05-WP	2ND POLE PEPKO LIGHT W/S AMHERST AVE N/O WINDHAM LN	WOOD		LED	100		3500k	30FT MOUNTING HEIGHT. 8FT ARM	
L06-WP	4TH PEPKO LIGHT POLE E/S AMHERST AVE N/O WINDHAM LN	WOOD		LED	100		3500k	30FT MOUNTING HEIGHT. 8FT ARM	
L07-WP	5TH PEPKO LIGHT POLE E/S AMHERST AVE N/O WINDHAM LN	WOOD		LED	100		3500k	30FT MOUNTING HEIGHT. 8FT ARM	
L08-WP	3RD PEPKO LIGHT POLE W/S AMHERST AVE N/O WINDHAM LN	WOOD		LED	100		3500k	30FT MOUNTING HEIGHT. 8FT ARM	
L09-WP	4TH PEPKO LIGHT POLE W/S AMHERST AVE N/O WINDHAM LN	WOOD		LED	100		3500k	30FT MOUNTING HEIGHT. 8FT ARM	
L10-WP	6TH PEPKO LIGHT POLE E/S AMHERST AVE N/O WINDHAM LN	WOOD		LED	100		3500k	30FT MOUNTING HEIGHT. 8FT ARM	
L11-WP	5TH PEPKO LIGHT POLE W/S AMHERST AVE N/O WINDHAM LN	WOOD		LED	100		3500k	30FT MOUNTING HEIGHT. 8FT ARM	
L12-WP	7TH PEPKO LIGHT POLE E/S AMHERST AVE N/O WINDHAM LN	WOOD		LED	100		3500k	30FT MOUNTING HEIGHT. 8FT ARM	
L13-WP	8TH PEPKO LIGHT POLE E/S AMHERST AVE N/O WINDHAM LN	WOOD		LED	100		3500k	30FT MOUNTING HEIGHT. 8FT ARM	
L14-WP	6TH PEPKO LIGHT POLE W/S AMHERST AVE N/O WINDHAM LN	WOOD		LED	100		3500k	30FT MOUNTING HEIGHT. 8FT ARM	
L15-WP	7TH PEPKO LIGHT POLE W/S AMHERST AVE N/O WINDHAM LN	WOOD		LED	100		3500k	30FT MOUNTING HEIGHT. 8FT ARM	
L16-WP	9TH PEPKO LIGHT POLE E/S AMHERST AVE N/O WINDHAM LN	WOOD		LED	100		3500k	30FT MOUNTING HEIGHT. 8FT ARM	
L17-WP	8TH PEPKO LIGHT POLE W/S AMHERST AVE N/O WINDHAM LN	WOOD		LED	100		3500k	30FT MOUNTING HEIGHT. 8FT ARM	
L18-WP	10TH PEPKO LIGHT POLE E/S AMHERST AVE N/O WINDHAM LN	WOOD		LED	100		3500k	30FT MOUNTING HEIGHT. 8FT ARM	
L19-WP	9TH PEPKO LIGHT POLE W/S AMHERST AVE N/O WINDHAM LN	WOOD		LED	100		3500k	30FT MOUNTING HEIGHT. 8FT ARM	
L20-WP	11TH PEPKO LIGHT POLE E/S AMHERST AVE N/O WINDHAM LN	WOOD		LED	100		3500k	30FT MOUNTING HEIGHT. 8FT ARM	
L21-WP	SE CORNER AMHERST AVE & PRICHARD RD	WOOD		LED	100		3500k	30FT MOUNTING HEIGHT. 8FT ARM	
L25-WP	1ST PEPKO LIGHT POLE W/S AMHERST AVE N/O PRICHARD RD	WOOD		LED	100		3500k	30FT MOUNTING HEIGHT. 8FT ARM	
L26-WP	1ST PEPKO LIGHT POLE E/S AMHERST AVE N/O PRICHARD RD	WOOD		LED	100		3500k	30FT MOUNTING HEIGHT. 8FT ARM	
L28-WP	2ND PEPKO LIGHT POLE E/S AMHERST AVE N/O PRICHARD RD	WOOD		LED	100		3500k	30FT MOUNTING HEIGHT. 8FT ARM	
L31-WP	2ND PEPKO LIGHT POLE W/S AMHERST AVE N/O PRICHARD RD	WOOD		LED	100		3500k	30FT MOUNTING HEIGHT. 8FT ARM	
L32-WP	3RD PEPKO LIGHT POLE E/S AMHERST AVE N/O PRICHARD RD	WOOD		LED	100		3500k	30FT MOUNTING HEIGHT. 8FT ARM	
L35-WP	3RD PEPKO LIGHT POLE W/S AMHERST AVE N/O PRICHARD RD	WOOD		LED	100		3500k	30FT MOUNTING HEIGHT. 8FT ARM	
L37-WP	4TH PEPKO LIGHT POLE E/S AMHERST AVE N/O PRICHARD RD	WOOD		LED	100		3500k	30FT MOUNTING HEIGHT. 8FT ARM	
L40-WP	5TH PEPKO LIGHT POLE E/S AMHERST AVE N/O PRICHARD RD	WOOD		LED	100		3500k	30FT MOUNTING HEIGHT. 8FT ARM	
L41-WP	4TH PEPKO LIGHT POLE W/S AMHERST AVE N/O PRICHARD RD	WOOD		LED	100		3500k	30FT MOUNTING HEIGHT. 8FT ARM	
L43-WP	6TH PEPKO LIGHT POLE E/S AMHERST AVE N/O PRICHARD RD	WOOD		LED	100		3500k	30FT MOUNTING HEIGHT. 8FT ARM	
L49-WP	1ST PEPKO LIGHT POLE E/S AMHERST AVE N/O REEDIE DR	WOOD		LED	215		3500k	30FT MOUNTING HEIGHT. 8FT ARM	
L52-WP	2ND PEPKO LIGHT POLE E/S AMHERST AVE N/O REEDIE DR	WOOD		LED	100		3500k	30FT MOUNTING HEIGHT. 8FT ARM	
L56-WP	3RD PEPKO LIGHT POLE E/S AMHERST AVE N/O REEDIE DR	WOOD		LED	100		3500k	30FT MOUNTING HEIGHT. 8FT ARM	
L59-WP	4TH PEPKO LIGHT POLE E/S AMHERST AVE N/O REEDIE DR	WOOD		LED	100		3500k	30FT MOUNTING HEIGHT. 8FT ARM	
L63-WP	5TH PEPKO LIGHT POLE E/S AMHERST AVE N/O REEDIE DR	WOOD		LED	100		3500k	30FT MOUNTING HEIGHT. 8FT ARM	
L65-WP	6TH PEPKO LIGHT POLE E/S AMHERST AVE N/O REEDIE DR	WOOD		LED	100		3500k	30FT MOUNTING HEIGHT. 8FT ARM	
L66-MP	PROPOSED WHEATON PED POLE W/S AMHERST AVE S/O UNIVERSITY BLVD	PED POLE		LED	100		3500k	11FT MOUNTING HEIGHT	
L67-WP	SW CORNER AMHERST AVE & UNIVERSITY BLVD	WOOD		LED	100		3500k	30FT MOUNTING HEIGHT. 8FT ARM	
L69-WP	1ST PEPKO LIGHT POLE E/S AMHERST AVE N/O UNIVERSITY BLVD	WOOD		LED	100		3500k	30FT MOUNTING HEIGHT. 8FT ARM	
L71-WP	2ND PEPKO LIGHT POLE E/S AMHERST AVE N/O UNIVERSITY BLVD	WOOD		LED	100		3500k	30FT MOUNTING HEIGHT. 8FT ARM	
L75-WP	3RD PEPKO LIGHT POLE E/S AMHERST AVE N/O UNIVERSITY BLVD	WOOD		LED	100		3500k	30FT MOUNTING HEIGHT. 8FT ARM	
L78-WP	4TH PEPKO LIGHT POLE E/S AMHERST AVE N/O UNIVERSITY BLVD	WOOD		LED	100		3500k	30FT MOUNTING HEIGHT. 8FT ARM	
L81-WP	5TH PEPKO LIGHT POLE E/S AMHERST AVE N/O UNIVERSITY BLVD	WOOD		LED	100		3500k	30FT MOUNTING HEIGHT. 8FT ARM	
L85-WP	6TH PEPKO LIGHT POLE E/S AMHERST AVE N/O UNIVERSITY BLVD	WOOD		LED	100		3500k	30FT MOUNTING HEIGHT. 8FT ARM	
L87-WP	7TH PEPKO LIGHT POLE E/S AMHERST AVE N/O UNIVERSITY BLVD	WOOD		LED	100		3500k	30FT MOUNTING HEIGHT. 8FT ARM	
L88-WP	8TH PEPKO LIGHT POLE E/S AMHERST AVE N/O UNIVERSITY BLVD	WOOD		LED	100		3500k	30FT MOUNTING HEIGHT. 8FT ARM	
L89-WP	9TH PEPKO LIGHT POLE E/S AMHERST AVE N/O UNIVERSITY BLVD	WOOD		LED	100		3500k	30FT MOUNTING HEIGHT. 8FT ARM	
L90-WP	10TH PEPKO LIGHT POLE E/S AMHERST AVE N/O UNIVERSITY BLVD	WOOD		LED	100		3500k	30FT MOUNTING HEIGHT. 8FT ARM	
L91-WP	NW CORNER AMHERST AVE & ELKIN ST	WOOD		LED	100		3500k	30FT MOUNTING HEIGHT. 8FT ARM	
L92-WP	1ST PEPKO LIGHT POLE E/S AMHERST AVE N/O ELKIN ST	WOOD		LED	215		3500k	30FT MOUNTING HEIGHT. 3FT ARM	
L93-WP	2ND PEPKO LIGHT POLE E/S AMHERST AVE N/O ELKIN ST	WOOD		LED	215		3500k	30FT MOUNTING HEIGHT. 3FT ARM	
L94-WP	3ND PEPKO LIGHT POLE E/S AMHERST AVE N/O ELKIN ST	WOOD		LED	215		3500k	30FT MOUNTING HEIGHT. 8FT ARM	
L95-PP	PROPOSED LIGHT POLE SW CORNER AMHERST AVE & ARCOLA AVE	PENDANT POLE		LED	100		3500k	30FT MOUNTING HEIGHT. 8FT ARM	
L96-WP	NW CORNER AMHERST AVE & ARCOLA AVE	WOOD		LED	100		3500k	30FT MOUNTING HEIGHT. 8FT ARM	
L97-WP	NE CORNER AMHERST AVE & ARCOLA AVE	WOOD		LED	100		3500k	30FT MOUNTING HEIGHT. 8FT ARM	
L98-WP	SE CORNER AMHERST AVE & WINDHAM LN	WOOD		LED	100		3500k	30FT MOUNTING HEIGHT. 8FT ARM	
L99-WP	NE CORNER AMHERST AVE & REEDIE DR	WOOD		LED	100		3500k	30FT MOUNTING HEIGHT. 8FT ARM	
L100-PP	1ST PEPKO WOOD POLE E/S AMHERST AVENUE S/O ARCOLA AVE	WOOD		LED	100		3500k	30FT MOUNTING HEIGHT. 8FT ARM	
L101-PP	PROPOSED LIGHT POLE SE CORNER AMHERST AVE & PROCHARD RD	PENDANT POLE		LED	100		3500k	30FT MOUNTING HEIGHT. 8FT ARM	
L102-PP	PROPOSED LIGHT POLE SE CORNER AMHERST AVE & REEDIE DR	PENDANT POLE		LED	100		3500k	30FT MOUNTING HEIGHT. 8FT ARM	
L103-PP	PROPOSED LIGHT POLE NE CORNER AMHERST AVE & REEDIE DR	PENDANT POLE		LED	100		3500k	30FT MOUNTING HEIGHT. 8FT ARM	
L104-PP	PROPOSED LIGHT POLE SE CORNER AMHERST AVE & BLUERIDGE AVE	PENDANT POLE		LED	100		3500k	30FT MOUNTING HEIGHT. 8FT ARM	
L105-PP	PROPOSED LIGHT POLE NW CORNER AMHERST AVE & BLUERIDGE AVE	PENDANT POLE		LED	100		3500k	30FT MOUNTING HEIGHT. 8FT ARM	
L106-PP	PROPOSED LIGHT POLE SE CORNER AMHERST AVE & ELKIN ST	PENDANT POLE		LED	100		3500k	30FT MOUNTING HEIGHT. 8FT ARM	
L107-PP	PROPOSED LIGHT POLE NE CORNER AMHERST AVE & ELKIN ST	PENDANT POLE		LED	100		3500k	30FT MOUNTING HEIGHT. 8FT ARM	
L108-PP	PROPOSED LIGHT POLE W/S AMHERST AVE S/O ARCOLA AVE	PENDANT POLE		LED	100		3500k	30FT MOUNTING HEIGHT. 8FT ARM	

LT-16



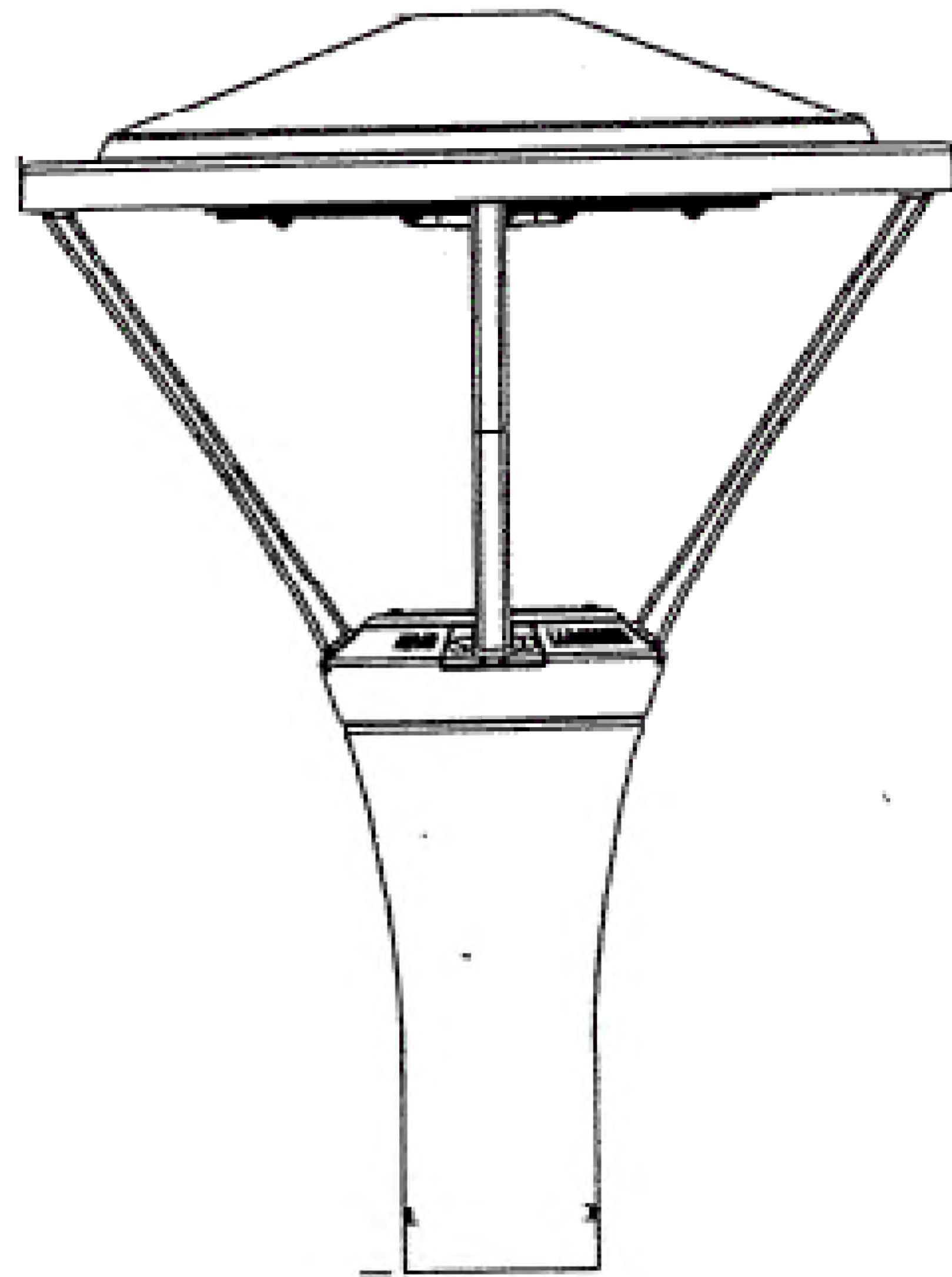
PROFESSIONAL CERTIFICATION:
I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND.
LICENSE NO: _____ EXPIRATION DATE: _____

NO.	REVISION	BY	APP'D	DATE

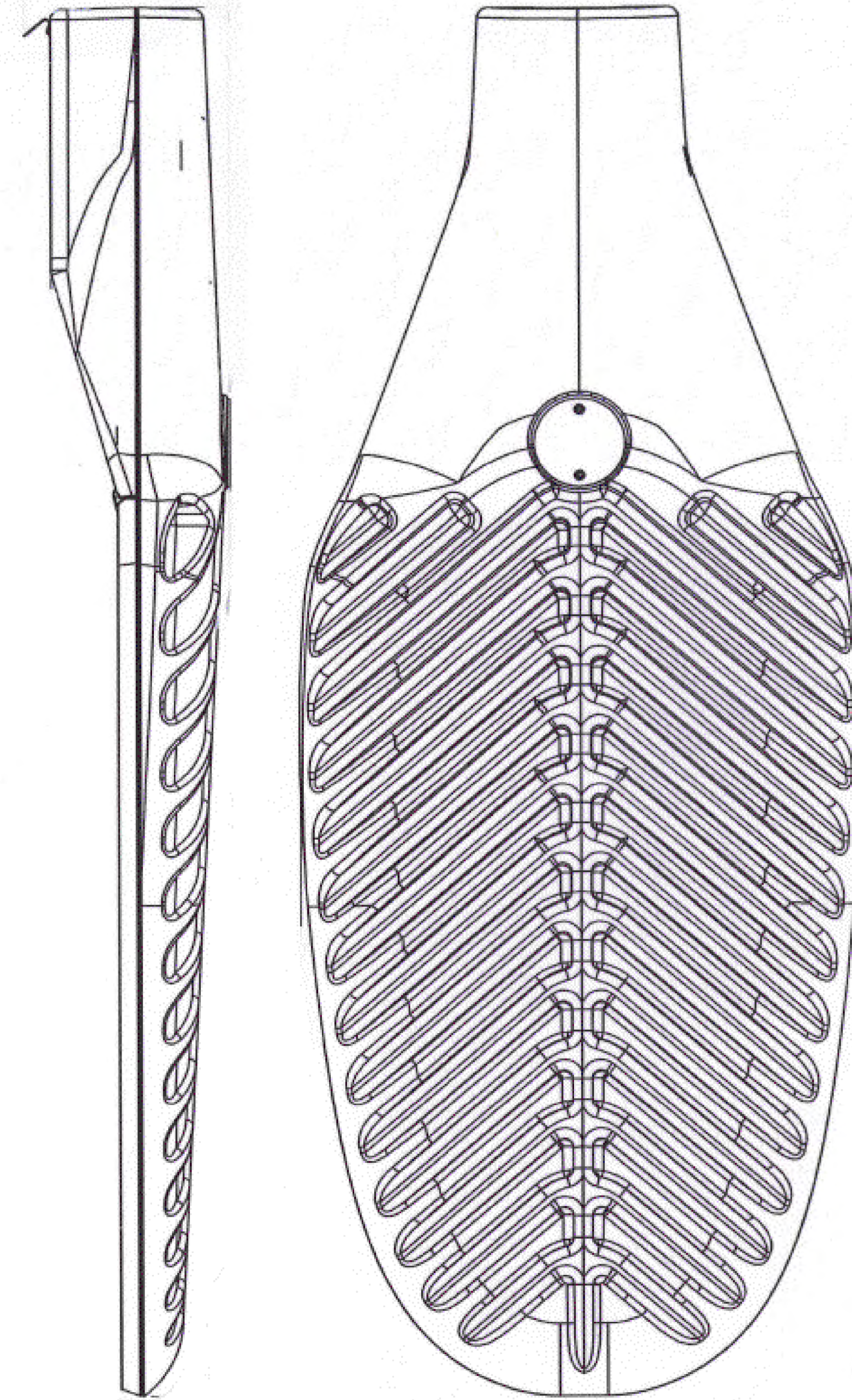
DESIGNED BY: AYY	DATE: OCT, 2023
DRAWN BY: SF	DATE: OCT, 2023
CHECKED BY: AYY	DATE:
DRAWING NO.:	DATE:
RECOMMENDED FOR APPROVAL	
Chief, Design Section	Date
APPROVED	
Chief, Division of Transportation Engineering	Date

DEPARTMENT OF TRANSPORTATION
DIVISION OF TRANSPORTATION ENGINEERING
MONTGOMERY COUNTY, MARYLAND

AMHERST AVENUE BIKEWAY
STREET LIGHTING TABLES - 2



WHEATON DECORATIVE PEDESTRIAN LED FIXTURE



ROADWAY COBRA-HEAD (PENDANT) FIXTURE

LT-18

NO.	REVISION	BY	APP'D	DATE	DESIGNED BY: AYY	DATE: OCT, 2023
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					Chief, Design Section	Date
					APPROVED	
					Chief,	Date
					Division of Transportation Engineering	

DEPARTMENT OF TRANSPORTATION
DIVISION OF TRANSPORTATION ENGINEERING
MONTGOMERY COUNTY, MARYLAND

AMHERST AVENUE BIKEWAY
STREET LIGHTING DETAILS - 2

SCALE: NONE

SHEET 139 of 207



WASHINGTON, D.C. (202) 686-8225 www.dpsi.com

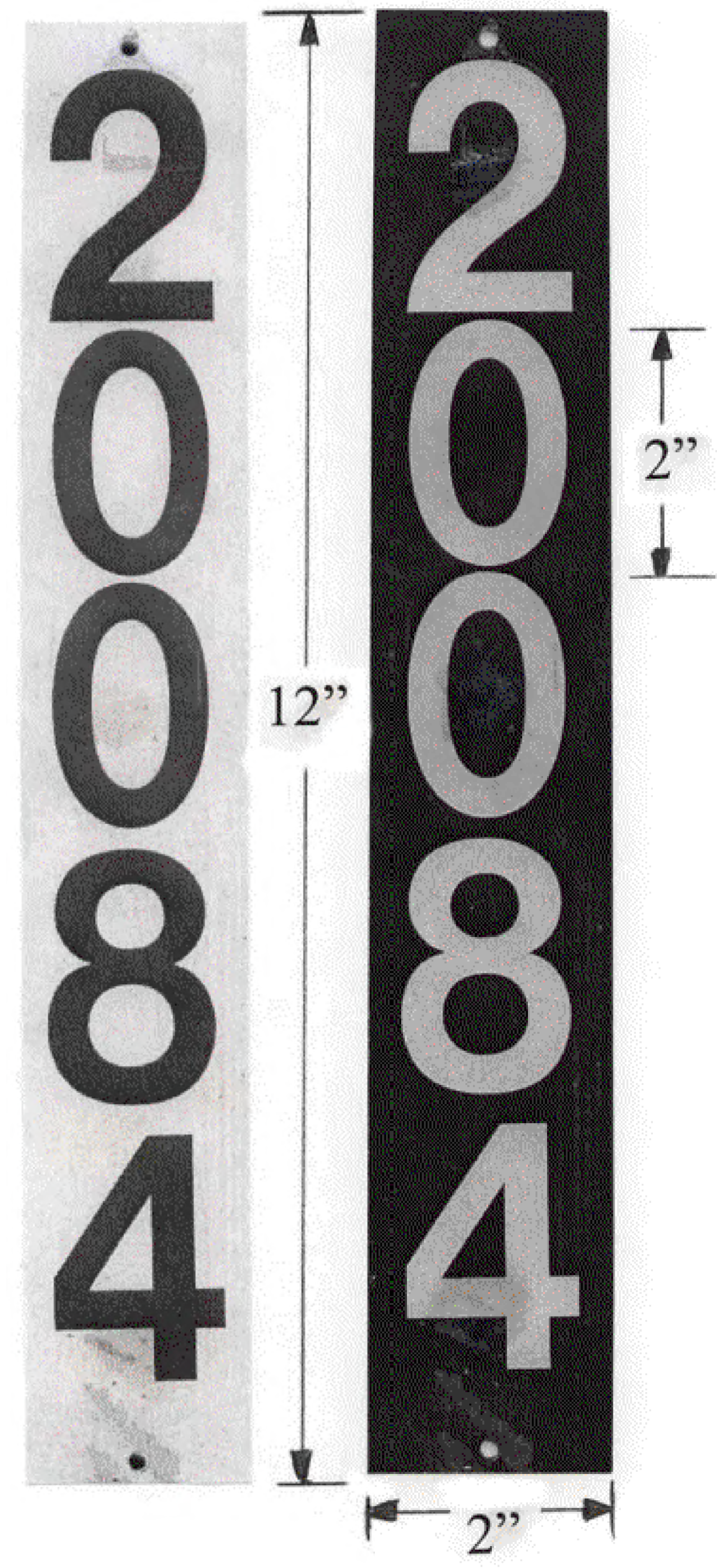


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PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE
OF MARYLAND.
LICENSE NO: _____ EXPIRATION DATE: _____

10/6/2023 P:\90540-stantec-amherst avenue bikeway\Lighting\Sheets\PL T-0003-AmherstAve.dgn



POLE NUMBERING TAGS

Precision Systems, Inc.
Engineers, Planners and Architects
WASHINGTON, D.C. (202) 686-8225 www.dpsi.com

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

BPPA
Bicycle and Pedestrian Priority Areas

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LICENSE NO: _____ EXPIRATION DATE: _____

NO.	REVISION	BY	APP'D	DATE	DESIGNED BY: AYY	DATE: OCT, 2023
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					DRAWING NO.:	DATE:
					RECOMMENDED FOR APPROVAL	
					Chief, Design Section	Date
					APPROVED	
					Chief, Division of Transportation Engineering	Date

LT-19

DEPARTMENT OF TRANSPORTATION
DIVISION OF TRANSPORTATION ENGINEERING
MONTGOMERY COUNTY, MARYLAND

AMHERST AVENUE BIKEWAY
STREET LIGHTING DETAILS - 3

SCALE: NONE SHEET 140 of 207

MAINTENANCE OF TRAFFIC GENERAL NOTES:

I. STANDARDS

All work shall be conducted in accordance with the latest versions of the Maryland State Highway Administrations (MD SHA) Standard Specifications and Book of Standards for Highway and Incidental Structures. All signs, channelizing devices, and other traffic control devices shall conform with the latest version of the Maryland Manual on Uniform Traffic Control Devices (MUTCD).

2. PRE-CONSTRUCTION

The contractor shall arrange and host a pre-construction meeting at least two weeks prior to starting construction and establishing the work zone. The following offices shall be notified of this pre-construction meeting:

- Montgomery County Division of Transportation Engineering at 240-777-7220
- Montgomery County Division of Traffic Engineering and Operations at 240-777-2190
- Montgomery County Transit at 240-777-5800
- Montgomery County Public Schools, Local Depot Manager
- Montgomery County Fire and Rescue, Local Fire Department Captain
- Montgomery County Police, Local Traffic Sergeant.
- Montgomery County Department of Permitting Services, Permit Inspection at 240-777-6300
- Jamie Cepler, WMATA, 202-962-6085

Maryland State Highway Administration (SHA) Offices:

- Joseph Moges, Acting Assistant District Engineer - Traffic (Montgomery County) jmoges@sha.state.md.us, (301) 513-7462
- Gregory Edwards, Assistant District Engineer - Maintenance gedwards@sha.state.md.us, (301) 513-7304
- John Gover, Assistant District Engineer - Construction jgover@sha.state.md.us, (301) 513-7336
- Mark Loeffler, Assistant District Engineer - Utilities mloeffler@sha.state.md.us, (301) 513-7350

Contact the MCDOT Transportation Management Center at 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.

The permittee shall contact the Transportation Systems Engineering Team at 240-777-2100 at least two weeks in advance to coordinate any minor traffic signal work. Major traffic signal work shall be coordinated a minimum of thirty (30) days in advance of the project. The permittee shall contact the Montgomery County Transportation Management Center at 240-777-2100 a minimum of 72 hours prior to beginning work to have existing traffic signal equipment marked.

The permittee shall contact the Traffic Engineering Design & Operations Section (TEDO) at 240-777-6000 at least ten (10) working days in advance of the final paving operation to schedule the installation of permanent pavement markings and signs.

The permittee shall contact the Director at 240-777-8101 of the Mid-County Regional Services Center and the Wheaton Traffic Sergeant at 301-217-4400 of the Montgomery County Police Department, a minimum of one week prior to the beginning of any work activities within the Wheaton Business District.

The permittee shall apply, obtain, and maintain the Traffic Control Permit and contact the State Operations Center at 1-800-543-2515 each day the permit is in effect.

3. SIGNS

a) ROAD WORK AHEAD signs shall be installed on all side streets that intersect roads within the work zone. The signing shall be placed along the intersection approach to the right of the travel lane. Refer to Standard Detail MD 104.01-02 for guidance on sign placement.

b) Warning signs mounted on wood posts, and those mounted on approved portable supports, shall be mounted in conformance with Standard No. MD 104.01-17.

c) The contractor shall cover temporary signs that are not applicable during non-working hours.

d) The contractor shall cover existing traffic signs in conflict with the work zone traffic control.

4. PORTABLE VARIABLE MESSAGE SIGNS

a) No more than two displays shall be used within any message cycle unless approved by the Engineer.

b) For a list of standard messages/abbreviations, contact the Engineer. All customized messages shall be approved by the Engineer.

c) Refer to Standard Detail MD 104.00-08 and -09 for more info.

d) Refer to Standard Detail MD 104.01-22 for traffic control devices associated with PVMS.

5. CHANNELIZING DEVICES

a) Taper formulas:

$L = WS$ for speeds greater than (>) 40 mph.
 $L = WS^2/60$ for speeds equal to or less than (<) 40 mph.
 Where L = minimum length of taper;
 S = prevailing travel speed or speed limit (MPH), whichever is higher prior to work starting.
 W = width of offset (ft)

b) Maximum spacing between channelizing devices

Taper channelization - Shall be equal in feet to the posted speed limit for posted speeds equal to or less than 40 mph and 40 feet for posted speeds greater than 40 mph.

Tangent channelization - Shall be equal in feet to twice the posted speed limit in the buffer and equal in feet to the posted speed adjacent to the work area for posted speeds equal to or less than 40 mph. Spacing shall be 80 feet in the buffer and 40 feet adjacent to the work area for posted speeds greater than 40 mph.

6. PAVEMENT MARKINGS

a) Temporary pavement markings should be installed according to Section 104.02-03(f).

b) Pavement markings that are no longer necessary shall be completely removed or obliterated using grinding method.

7. FLAGGING OPERATIONS

a) Radio communication shall be required between flaggers at the discretion of the County Inspector or under the following conditions:
 - If the flaggers cannot see each other
 - If the lane closure exceeds 200 feet.

b) Flaggers shall be Maryland State Highway Administration or AATSA approved flaggers and shall be used at the discretion of the County Inspector. Flaggers shall use STOP/SLOW paddles to direct traffic.

c) Flaggers shall assist pedestrians and bicyclists.

8. VEHICLES

a) Non-essential work vehicles are to be pulled as far off the road as possible or be otherwise parked in a manner that does not inhibit the movement of traffic.

b) All work zone vehicles entering/exiting or operating within the work zone shall display flashing safety lights (amber in color) as specified in Standard MD 104.01-18A & B.

c) Coordinate deliveries of materials with proposed lane/shoulder closures, preferably when traffic volumes are low.

9. WORK HOUR RESTRICTIONS

a) Unless permitted by the Engineer, work within a lane, or within 2 feet of the face of curb (closed section roadway), is prohibited during peak hours 6 am - 9 am and 3 pm - 7 pm, Monday - Friday. Also, such work is not permitted on weekends, National/State holidays, or days preceding and following holidays.

b) Nighttime work will be not be permitted, unless approved by the Engineer.

10. RESIDENTIAL/COMMERCIAL ACCESS

a) Contractor shall maintain access to residences including mail delivery and trash/pick up at all times during construction. For driveways requiring temporary closure to vehicular access due to proposed improvements, the contractor shall notify impacted property owner at least 2 weeks in advance of planned construction dates/times, confirm 24 hours in advance, and coordinate closely for the duration of construction activities. The contractor shall take all reasonable measures to provide access during construction activities.

II. POSTED SPEED LIMITS

Amherst Avenue is classified as Business from Windham Lane to Blueridge Avenue, and classified as Residential Primary from Blueridge Avenue to Arcola Avenue.

Posted speed limit - 25 mph / 30 mph

The posted speed limits will be maintained during the construction.

12. TEMPORARY IMPACTS TO TRANSIT SERVICE

The contractor shall coordinate temporary bus stop relocations with Montgomery County Transit Service and WMATA. Contact Phil McLaughlin (240-777-5800) and Jamie Cepler (202-962-6085) at least 2 weeks in advance of construction. WMATA and Ride-On bus stops are located along Amherst Avenue

13. PARKING RESTRICTIONS

The permittee shall contact Veeda Wilkinson with MCDOT, Division of Parking Management at 240-777-8740 a minimum of 48 hours in advance to arrange for payment and the bagging of all parking meters within the work zone. Meter numbers and location must be specified.

All existing Montgomery County Parking signs shall be covered or bagged by the contractor for the duration of work; and a temporary No Parking Anytime (R7-4) sign shall be installed in the affected parking space(s). Existing Montgomery County parking meter pipes/poles shall not be used for temporary installation.

When it is necessary to restrict parking in a non-metered area to facilitate work activity, the permittee shall contact the appropriate County Police Station for temporary "No Parking" signs.

SEQUENCE OF CONSTRUCTION:

1. Construct drainage improvements, curb, sidewalk and roadway improvements along roadway between Windham Lane and Pritchard Road. Install lateral pipes as indicated on the plans. Install temporary striping.
2. Construct drainage improvements, curb, sidewalk and roadway improvements along roadway between Pritchard Road and Reddie Drive. Install lateral pipes as indicated on the plans. Install temporary striping.
3. Construct curb, sidewalk and roadway improvements along west side of along roadway between Reddie Drive and University Blvd (MD 193). Install lateral pipes as indicated on the plans. Install temporary striping.
4. Construct curb, sidewalk and roadway improvements along west side of along roadway between University Blvd (MD 193) and Blueridge Avenue. Install lateral pipes as indicated on the plans. Install temporary striping.
5. Construct curb, sidewalk and roadway improvements along west side of along roadway between Blueridge Avenue and Elkin Street. Install lateral pipes as indicated on the plans. Install temporary striping.
6. Construct curb, sidewalk and roadway improvements along west side of along roadway between Elkin Street and Arcola Avenue. Install lateral pipes as indicated on the plans. Install temporary striping.
7. Following mill and overlay at construction completion, install final pavement marking per Signing and Marking Plans.

Note the Contractor may work on multiple segments at the same time within each phase, however may not work on adjacent segments at the same time.

MTN-01

NO.	REVISION	BY	APP'D	DATE	DESIGNED BY: UMK	DATE: OCTOBER, 2023
					DRAWN BY: UMK	DATE: OCTOBER, 2023
					CHECKED BY: SJZ	DATE: OCTOBER, 2023
					DRAWING NO.:	DATE:
RECOMMENDED FOR APPROVAL						
					Chief, Design Section	Date
APPROVED						
					Chief,	Date
					Division of Transportation Engineering	



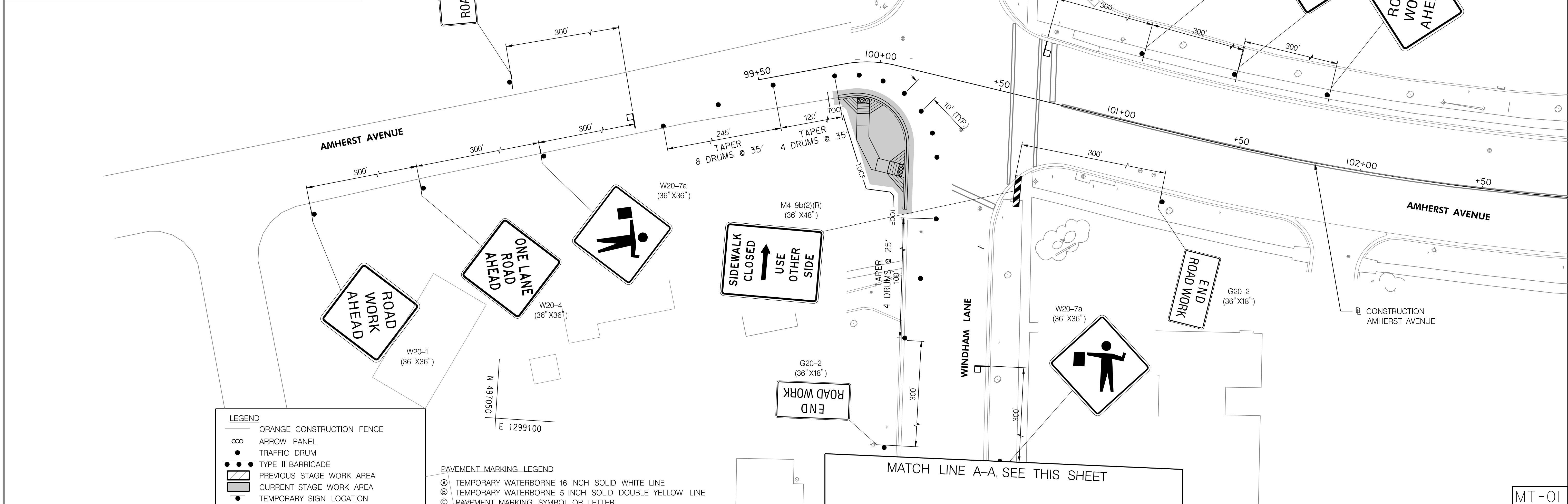
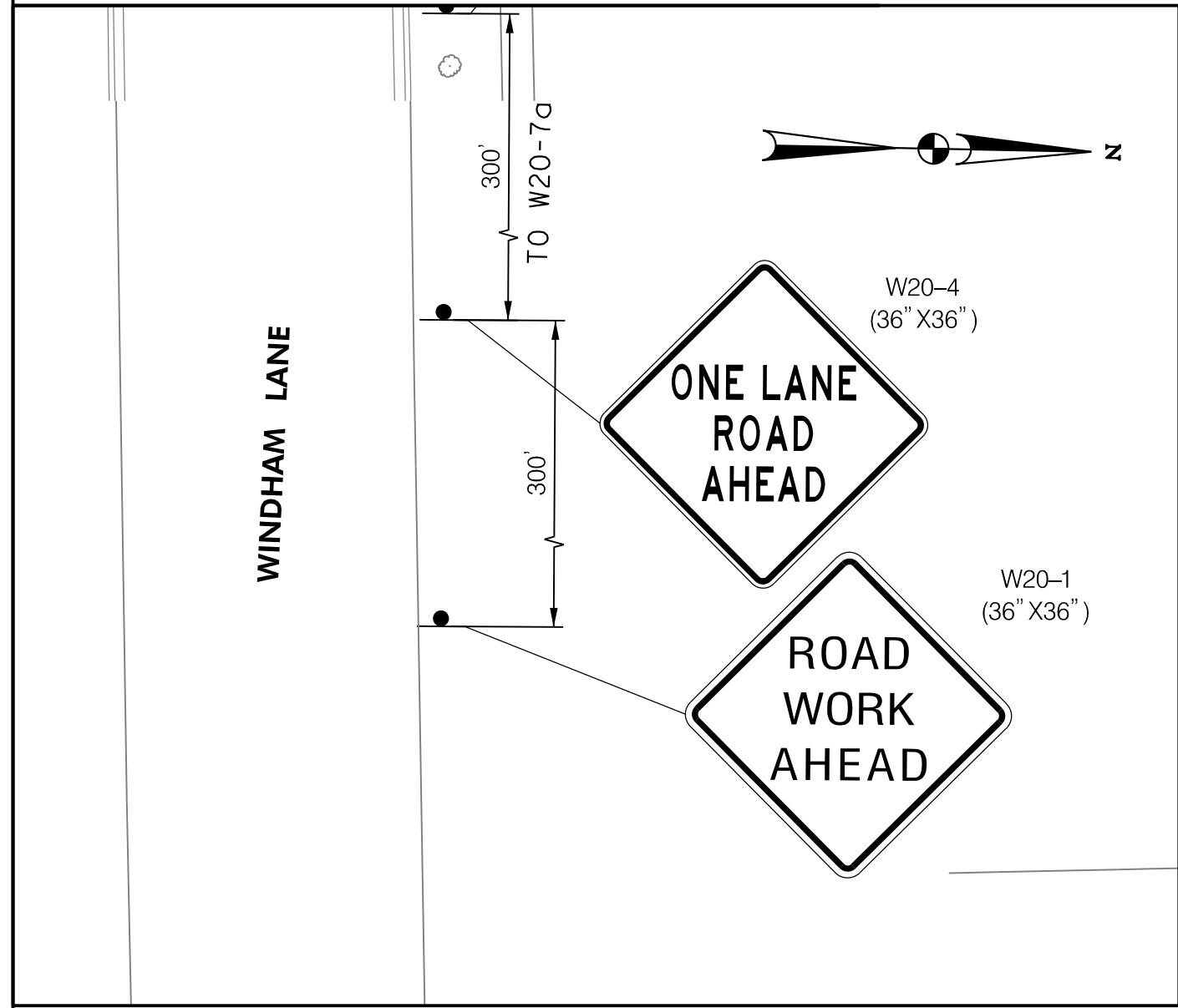
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 LICENSE NO: _____ EXPIRATION DATE: _____

10/9/2023
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MATCH LINE A-A, SEE THIS SHEET

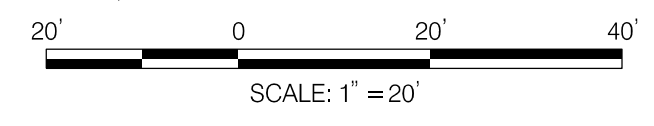


LEGEND

- ORANGE CONSTRUCTION FENCE
- ARROW PANEL
- TRAFFIC DRUM
- TYPE III BARRICADE
- PREVIOUS STAGE WORK AREA
- CURRENT STAGE WORK AREA
- TEMPORARY SIGN LOCATION
- TEMPORARY WATER FILLED BARRIER
- TEMPORARY FLAGGER

PAVEMENT MARKING LEGEND

- TEMPORARY WATERBORNE 16 INCH SOLID WHITE LINE
- TEMPORARY WATERBORNE 5 INCH SOLID DOUBLE YELLOW LINE
- PAVEMENT MARKING SYMBOL OR LETTER



NO.	REVISION	BY	APP'D	DATE

DESIGNED BY: UMK	DATE: OCTOBER, 2023
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RECOMMENDED FOR APPROVAL	
Chief, Design Section	Date
APPROVED	
Chief, Division of Transportation Engineering	Date

DEPARTMENT OF TRANSPORTATION
DIVISION OF TRANSPORTATION ENGINEERING
MONTGOMERY COUNTY, MARYLAND

AMHERST AVE CYCLE TRACK
PHASE 1A
MAINTENANCE OF TRAFFIC

SCALE: 1"=20' SHEET 142 of 208



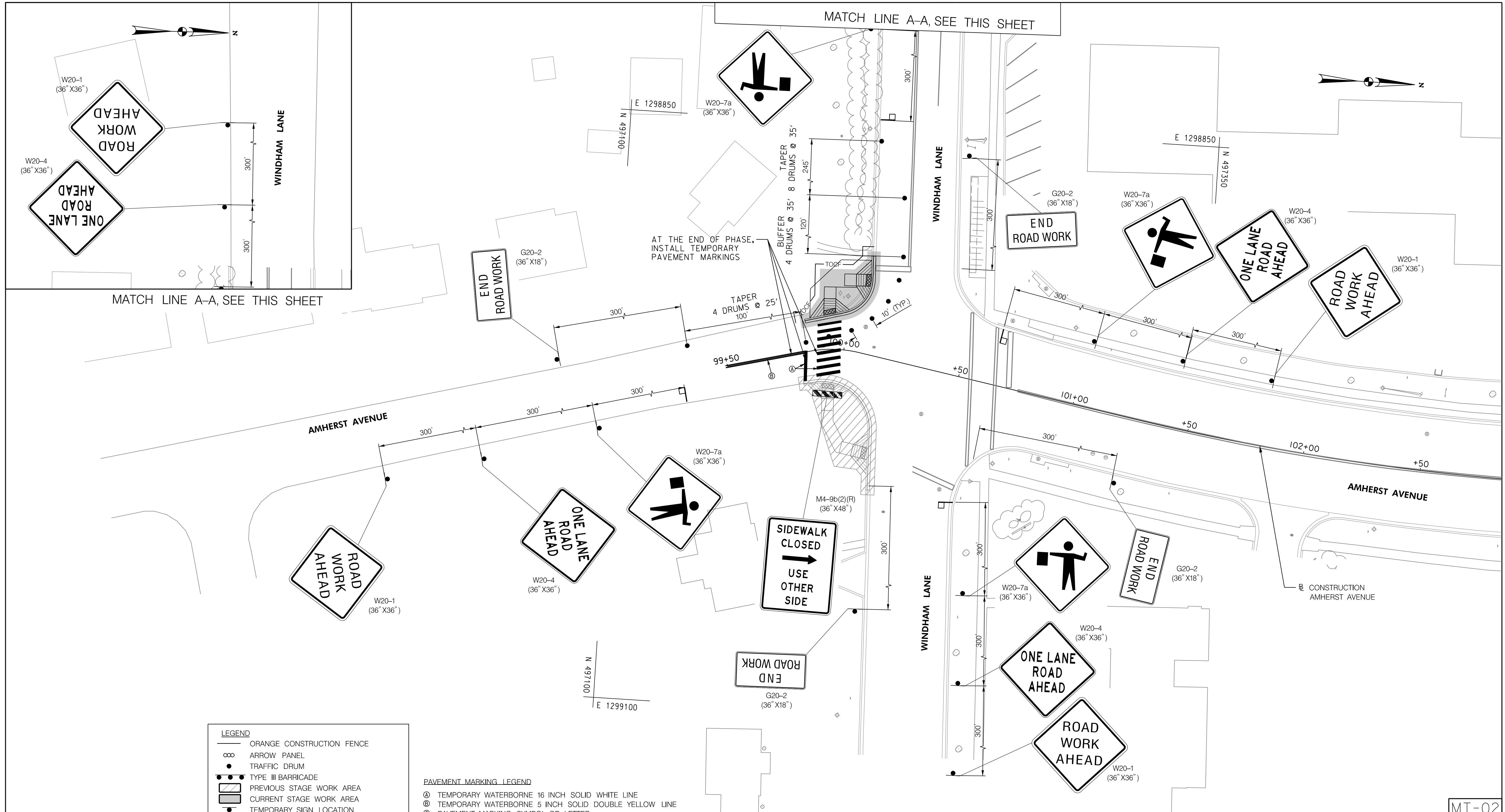
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MT-01

10/9/2023
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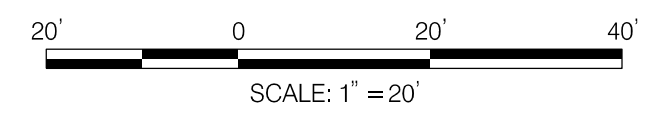


LEGEND

- ORANGE CONSTRUCTION FENCE
- ∞ ARROW PANEL
- TRAFFIC DRUM
- TYPE III BARRICADE
- ▨ PREVIOUS STAGE WORK AREA
- ▩ CURRENT STAGE WORK AREA
- TEMPORARY SIGN LOCATION
- ▤ TEMPORARY WATER FILLED BARRIER
- TEMPORARY FLAGGER

PAVEMENT MARKING LEGEND

- Ⓐ TEMPORARY WATERBORNE 16 INCH SOLID WHITE LINE
- Ⓑ TEMPORARY WATERBORNE 5 INCH SOLID DOUBLE YELLOW LINE
- Ⓒ PAVEMENT MARKING SYMBOL OR LETTER



NO.	REVISION	BY	APP'D	DATE

DESIGNED BY: UMK	DATE: OCTOBER, 2023
DRAWN BY: UMK	DATE: OCTOBER, 2023
CHECKED BY: SJZ	DATE: OCTOBER, 2023
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Chief, Design Section _____	Date _____
APPROVED	
Chief, Division of Transportation Engineering _____	Date _____

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DIVISION OF TRANSPORTATION ENGINEERING
MONTGOMERY COUNTY, MARYLAND

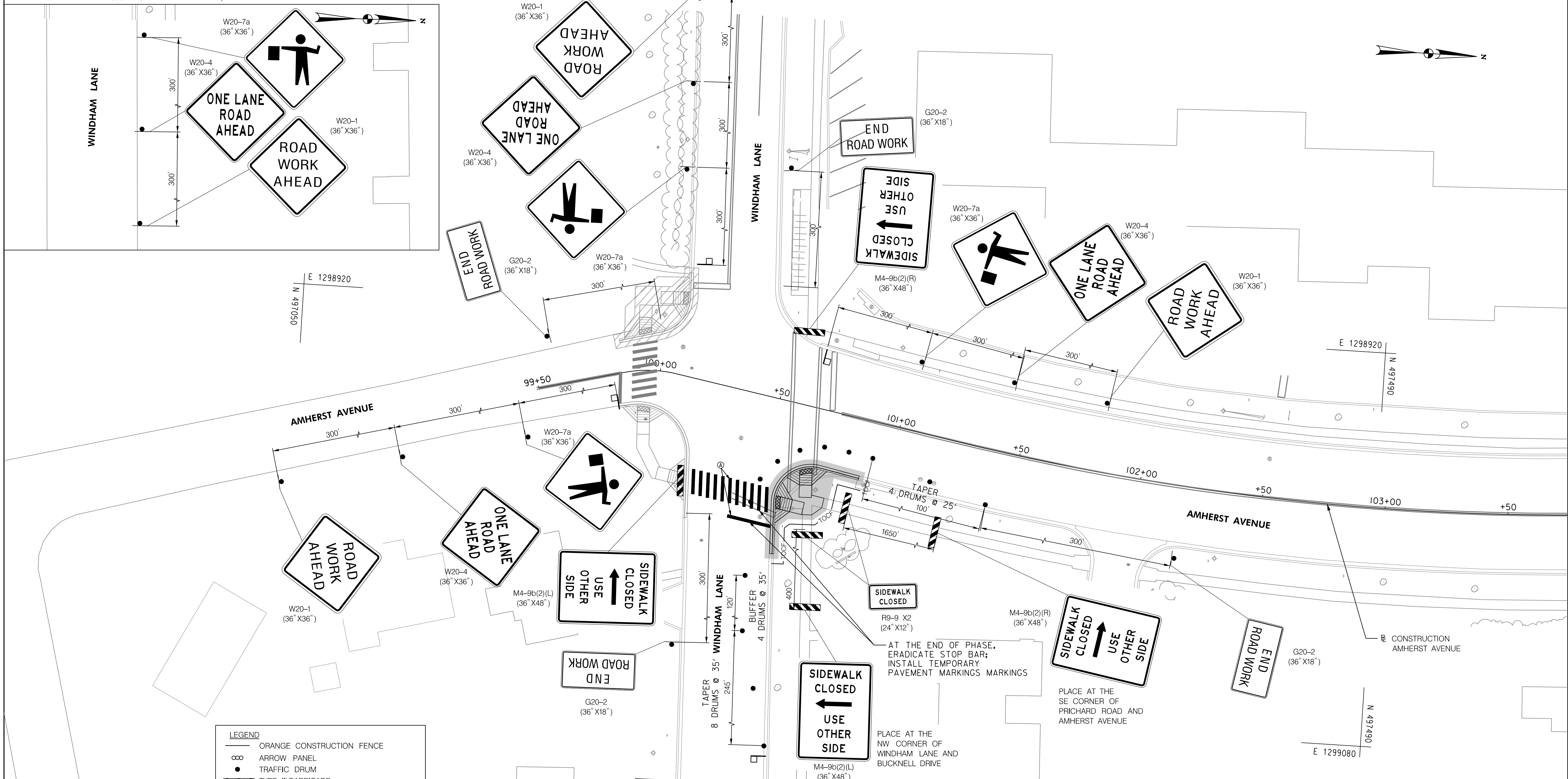
AMHERST AVE CYCLE TRACK
 PHASE 1B
 MAINTENANCE OF TRAFFIC

SCALE: 1"=20' SHEET 143 of 208

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MT-02

MATCH LINE A-A, SEE THIS SHEET

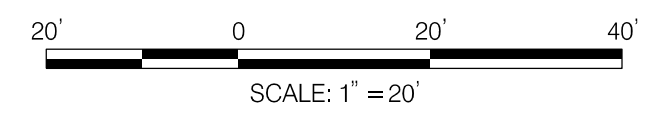


LEGEND

- ORANGE CONSTRUCTION FENCE
- ARROW PANEL
- TRAFFIC DRUM
- TYPE III BARRICADE
- PREVIOUS STAGE WORK AREA
- CURRENT STAGE WORK AREA
- TEMPORARY SIGN LOCATION
- TEMPORARY WATER FILLED BARRIER
- TEMPORARY FLAGGER

PAVEMENT MARKING LEGEND

- ④ TEMPORARY WATERBORNE 16 INCH SOLID WHITE LINE
- Ⓟ TEMPORARY WATERBORNE 5 INCH SOLID DOUBLE YELLOW LINE
- Ⓢ PAVEMENT MARKING SYMBOL OR LETTER



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MONTGOMERY COUNTY, MARYLAND

AMHERST AVE CYCLE TRACK
 PHASE 1C
 MAINTENANCE OF TRAFFIC

SCALE: 1"=20' SHEET 144 of 208

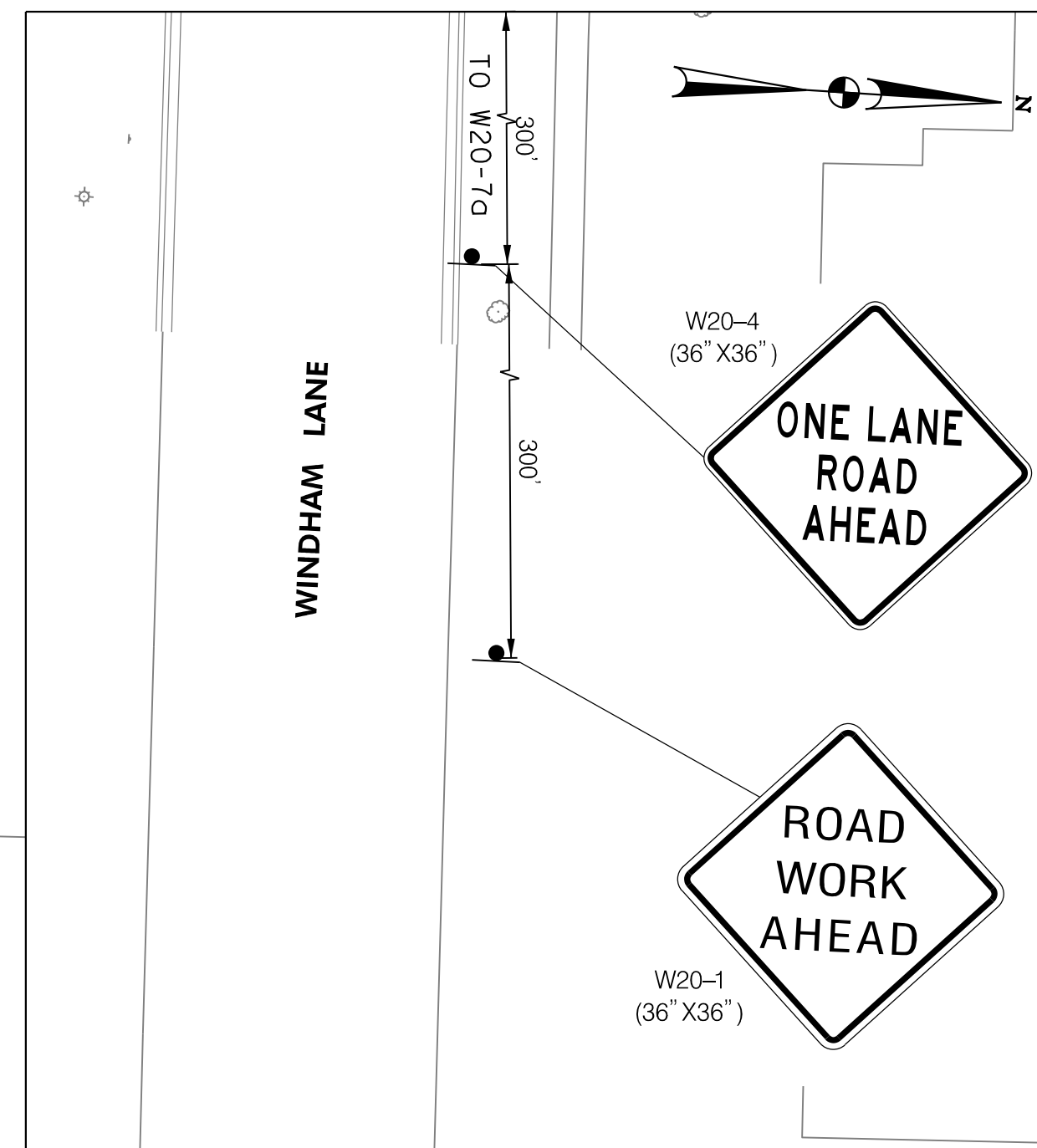
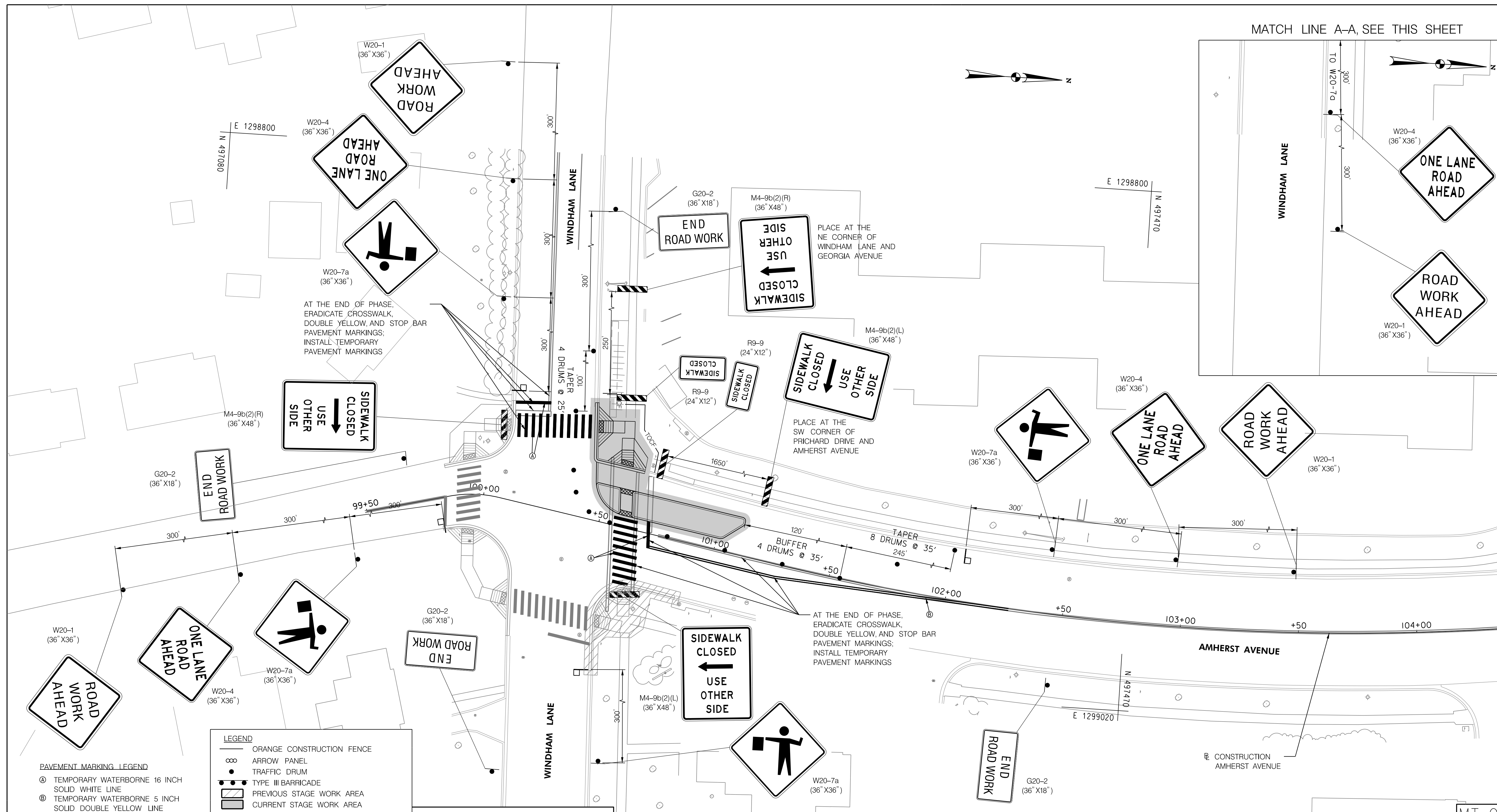
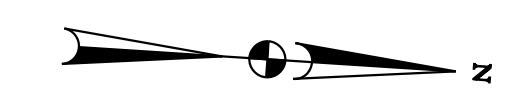
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MT-03

MATCH LINE A-A, SEE THIS SHEET

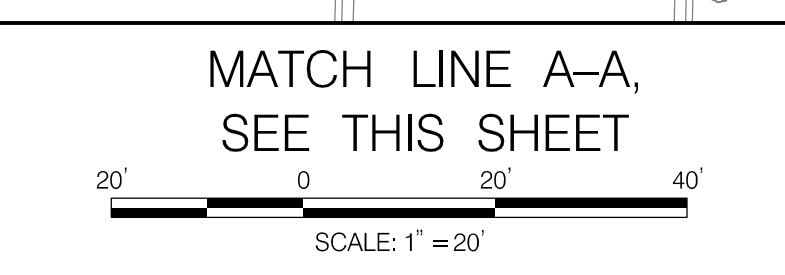


LEGEND

- ORANGE CONSTRUCTION FENCE
- ARROW PANEL
- TRAFFIC DRUM
- TYPE III BARRICADE
- PREVIOUS STAGE WORK AREA
- CURRENT STAGE WORK AREA
- TEMPORARY SIGN LOCATION
- TEMPORARY WATER FILLED BARRIER
- TEMPORARY FLAGGER

PAVEMENT MARKING LEGEND

- TEMPORARY WATERBORNE 16 INCH SOLID WHITE LINE
- TEMPORARY WATERBORNE 5 INCH SOLID DOUBLE YELLOW LINE
- PAVEMENT MARKING SYMBOL OR LETTER



NO.	REVISION	BY	APP'D	DATE

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APPROVED	
Chief, Division of Transportation Engineering	Date

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DIVISION OF TRANSPORTATION ENGINEERING
MONTGOMERY COUNTY, MARYLAND

AMHERST AVE CYCLE TRACK
PHASE 1D
MAINTENANCE OF TRAFFIC

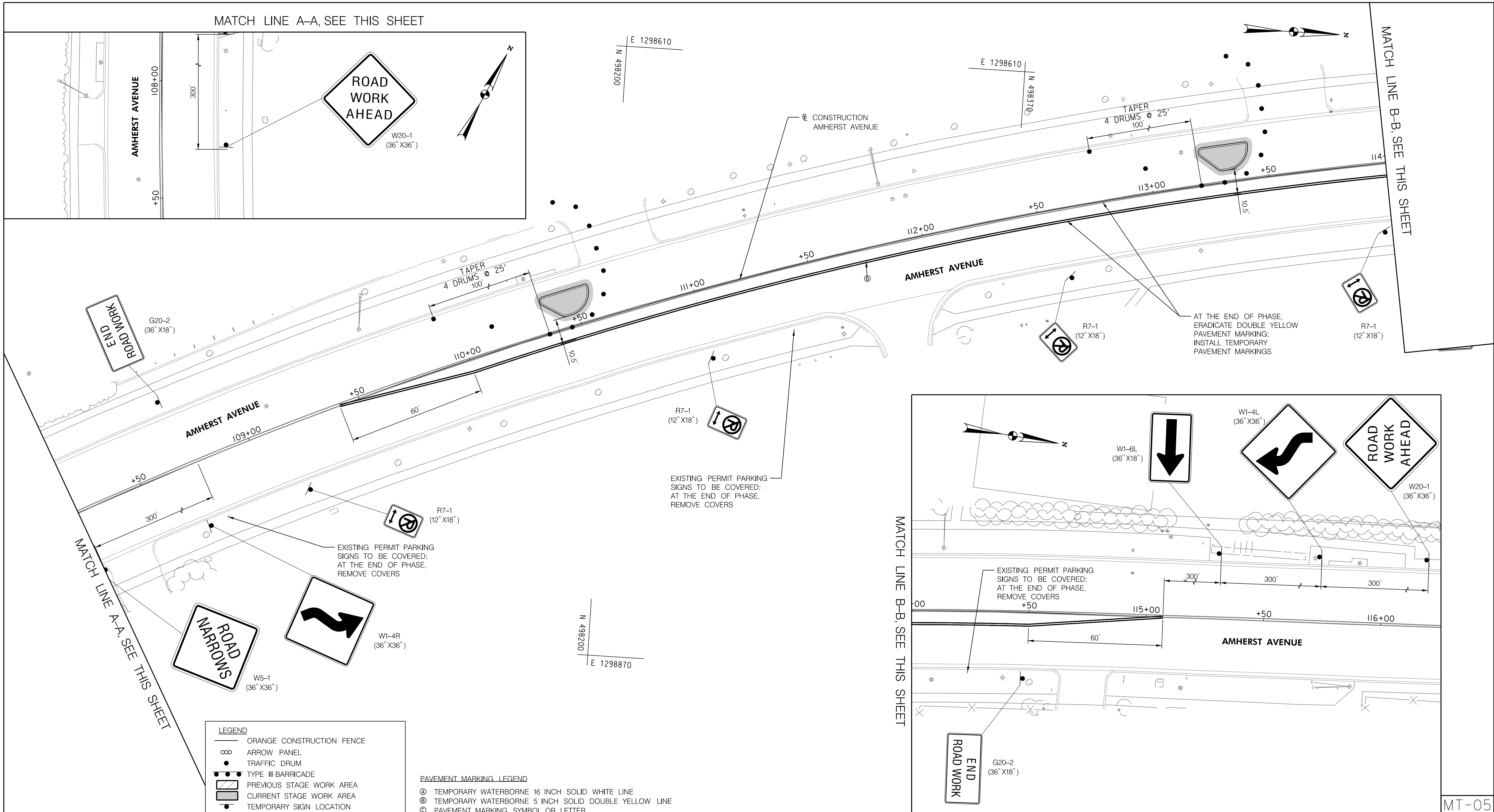
SCALE: 1"=20' SHEET 145 of 208

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MATCH LINE A-A, SEE THIS SHEET

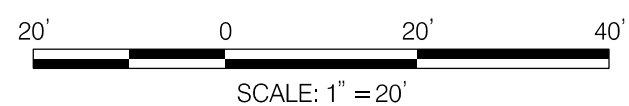


LEGEND

- ORANGE CONSTRUCTION FENCE
- ∞ ARROW PANEL
- TRAFFIC DRUM
- TYPE III BARRICADE
- ▨ PREVIOUS STAGE WORK AREA
- ▩ CURRENT STAGE WORK AREA
- TEMPORARY SIGN LOCATION
- ▬ TEMPORARY WATER FILLED BARRIER
- TEMPORARY FLAGGER

PAVEMENT MARKING LEGEND

- Ⓐ TEMPORARY WATERBORNE 16 INCH SOLID WHITE LINE
- Ⓑ TEMPORARY WATERBORNE 5 INCH SOLID DOUBLE YELLOW LINE
- Ⓒ PAVEMENT MARKING SYMBOL OR LETTER



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MONTGOMERY COUNTY, MARYLAND

AMHERST AVE CYCLE TRACK
PHASE 1E
MAINTENANCE OF TRAFFIC

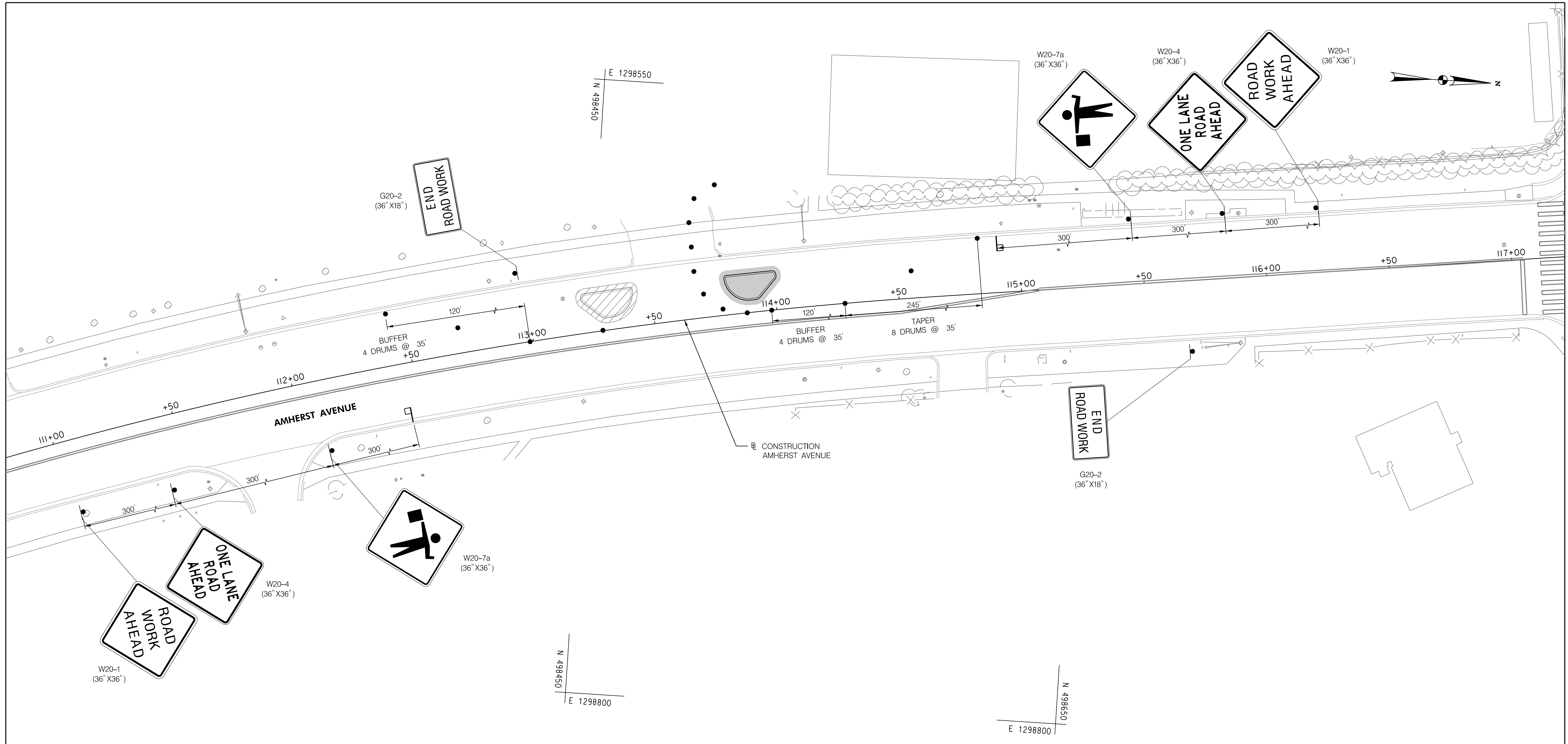
SCALE: 1"=20' SHEET 146 of 208

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MT-05

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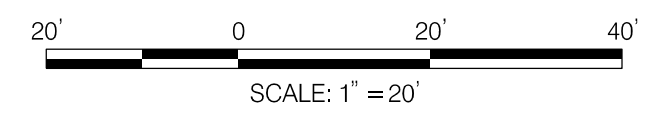


LEGEND

- ORANGE CONSTRUCTION FENCE
- ∞ ARROW PANEL
- TRAFFIC DRUM
- TYPE III BARRICADE
- ▨ PREVIOUS STAGE WORK AREA
- ▩ CURRENT STAGE WORK AREA
- TEMPORARY SIGN LOCATION
- ▬ TEMPORARY WATER FILLED BARRIER
- TEMPORARY FLAGGER

PAVEMENT MARKING LEGEND

- Ⓐ TEMPORARY WATERBORNE 16 INCH SOLID WHITE LINE
- Ⓑ TEMPORARY WATERBORNE 5 INCH SOLID DOUBLE YELLOW LINE
- Ⓒ PAVEMENT MARKING SYMBOL OR LETTER



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Chief, Division of Transportation Engineering _____	Date _____

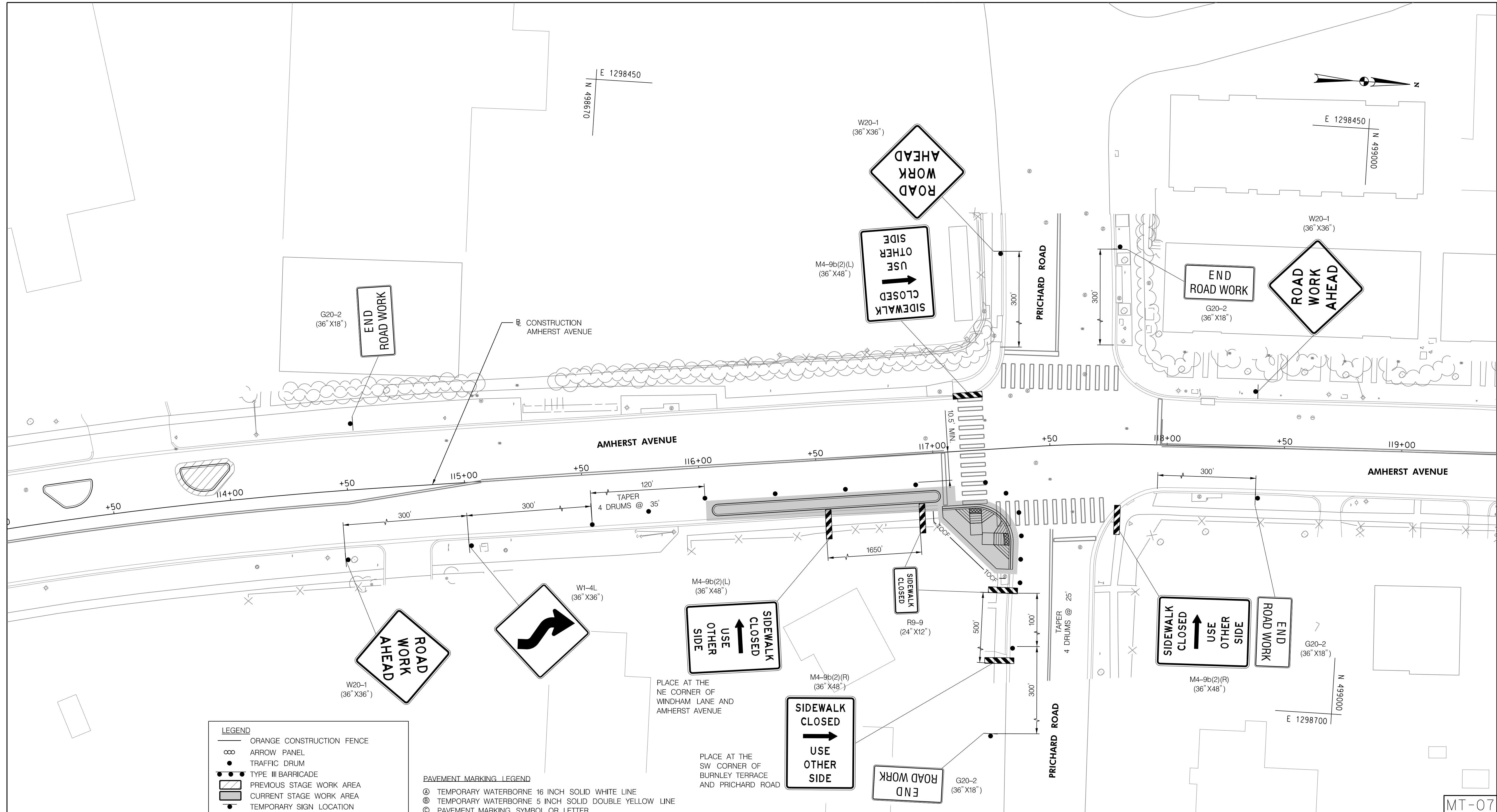
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MONTGOMERY COUNTY, MARYLAND

AMHERST AVE CYCLE TRACK
 PHASE 1F
 MAINTENANCE OF TRAFFIC

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MT-06

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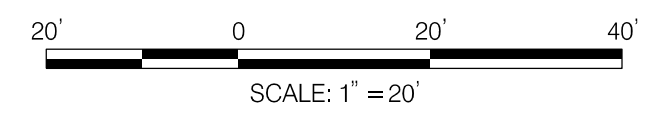


LEGEND

- ORANGE CONSTRUCTION FENCE
- ∞ ARROW PANEL
- TRAFFIC DRUM
- TYPE III BARRICADE
- ▨ PREVIOUS STAGE WORK AREA
- ▩ CURRENT STAGE WORK AREA
- TEMPORARY SIGN LOCATION
- ▬ TEMPORARY WATER FILLED BARRIER
- TEMPORARY FLAGGER

PAVEMENT MARKING LEGEND

- Ⓐ TEMPORARY WATERBORNE 16 INCH SOLID WHITE LINE
- Ⓑ TEMPORARY WATERBORNE 5 INCH SOLID DOUBLE YELLOW LINE
- Ⓒ PAVEMENT MARKING SYMBOL OR LETTER



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MONTGOMERY COUNTY, MARYLAND

AMHERST AVE CYCLE TRACK
 PHASE 2A
 MAINTENANCE OF TRAFFIC

SCALE: 1"=20' SHEET 148 of 208

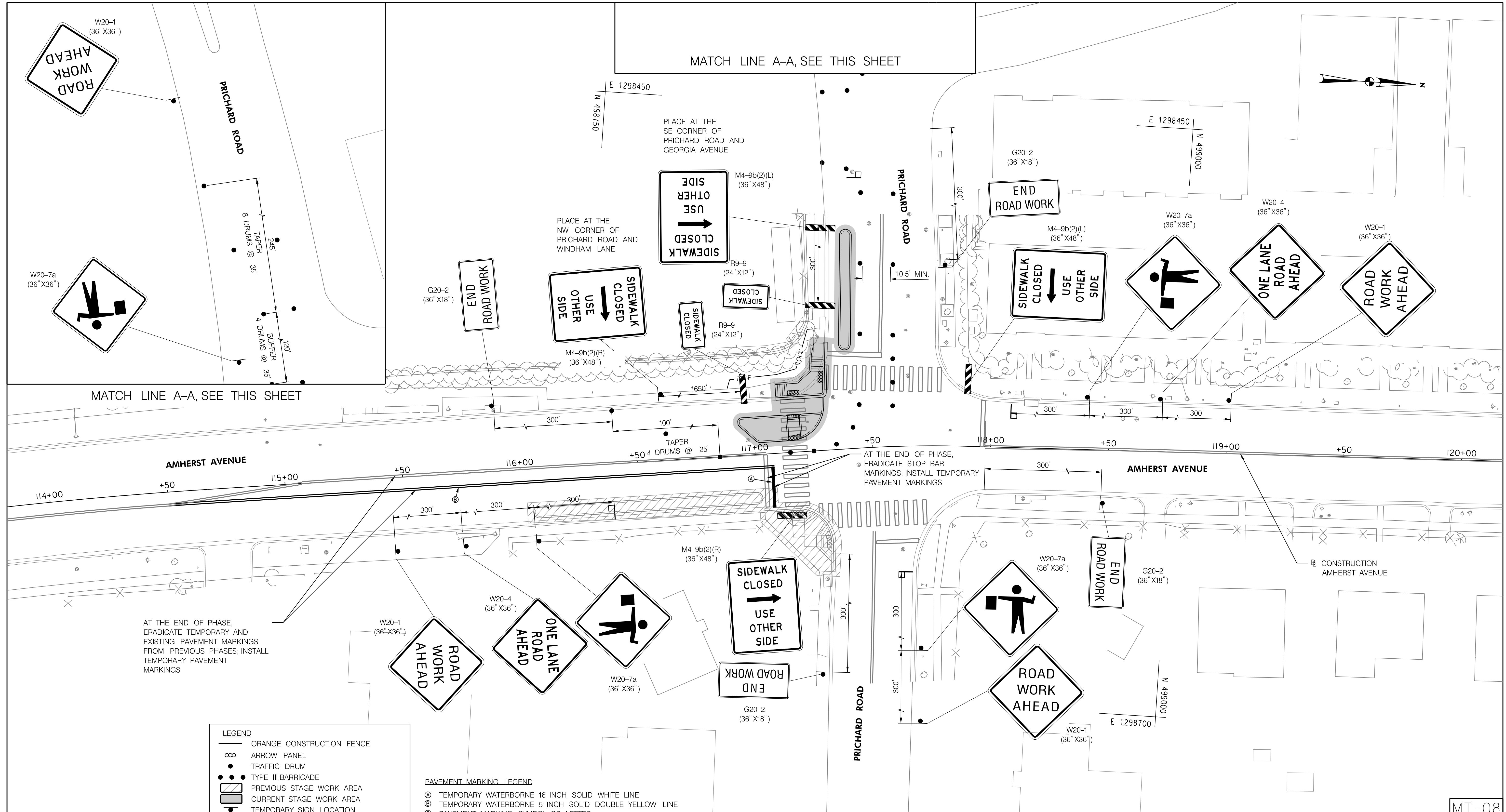


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MT-07

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AT THE END OF PHASE, ERADICATE TEMPORARY AND EXISTING PAVEMENT MARKINGS FROM PREVIOUS PHASES; INSTALL TEMPORARY PAVEMENT MARKINGS

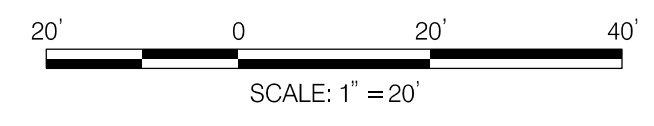
AT THE END OF PHASE, ERADICATE STOP BAR MARKINGS; INSTALL TEMPORARY PAVEMENT MARKINGS

LEGEND

- ORANGE CONSTRUCTION FENCE
- ∞ ARROW PANEL
- TRAFFIC DRUM
- TYPE III BARRICADE
- ▨ PREVIOUS STAGE WORK AREA
- ▩ CURRENT STAGE WORK AREA
- TEMPORARY SIGN LOCATION
- ▬ TEMPORARY WATER FILLED BARRIER
- TEMPORARY FLAGGER

PAVEMENT MARKING LEGEND

- Ⓐ TEMPORARY WATERBORNE 16 INCH SOLID WHITE LINE
- Ⓑ TEMPORARY WATERBORNE 5 INCH SOLID DOUBLE YELLOW LINE
- Ⓒ PAVEMENT MARKING SYMBOL OR LETTER



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 MONTGOMERY COUNTY, MARYLAND

AMHERST AVE CYCLE TRACK
 PHASE 2B
 MAINTENANCE OF TRAFFIC



W20-1
 (36" X 36")
 ROAD WORK AHEAD

W20-7a
 (36" X 36")

G20-2
 (36" X 18")
 END ROAD WORK

SIDEWALK CLOSED
 USE OTHER SIDE

SIDEWALK CLOSED
 USE OTHER SIDE

END ROAD WORK

SIDEWALK CLOSED
 USE OTHER SIDE

W20-7a
 (36" X 36")

W20-4
 (36" X 36")
 ONE LANE ROAD AHEAD

W20-1
 (36" X 36")
 ROAD WORK AHEAD

SIDEWALK CLOSED
 USE OTHER SIDE

END ROAD WORK

W20-7a
 (36" X 36")

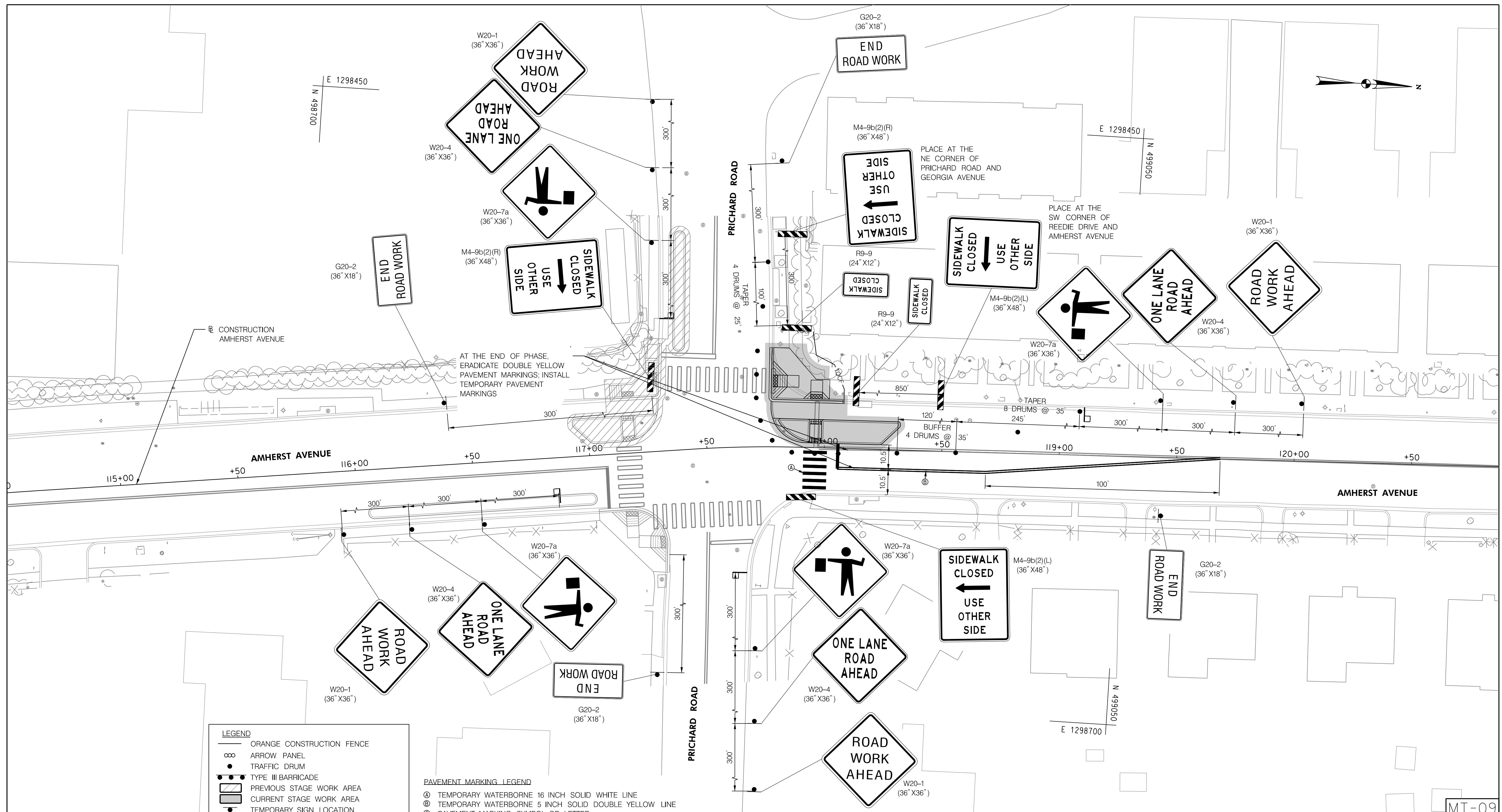
ROAD WORK AHEAD

END ROAD WORK

W20-1
 (36" X 36")

MT-08

10/9/2023
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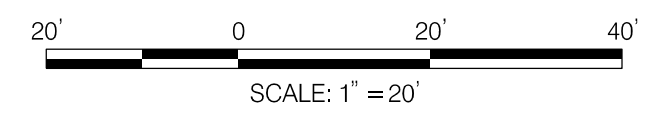


LEGEND

- ORANGE CONSTRUCTION FENCE
- ∞ ARROW PANEL
- TRAFFIC DRUM
- TYPE III BARRICADE
- ▨ PREVIOUS STAGE WORK AREA
- ▩ CURRENT STAGE WORK AREA
- TEMPORARY SIGN LOCATION
- ▨ TEMPORARY WATER FILLED BARRIER
- TEMPORARY FLAGGER

PAVEMENT MARKING LEGEND

- Ⓐ TEMPORARY WATERBORNE 16 INCH SOLID WHITE LINE
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 MONTGOMERY COUNTY, MARYLAND

AMHERST AVE CYCLE TRACK
 PHASE 2C
 MAINTENANCE OF TRAFFIC

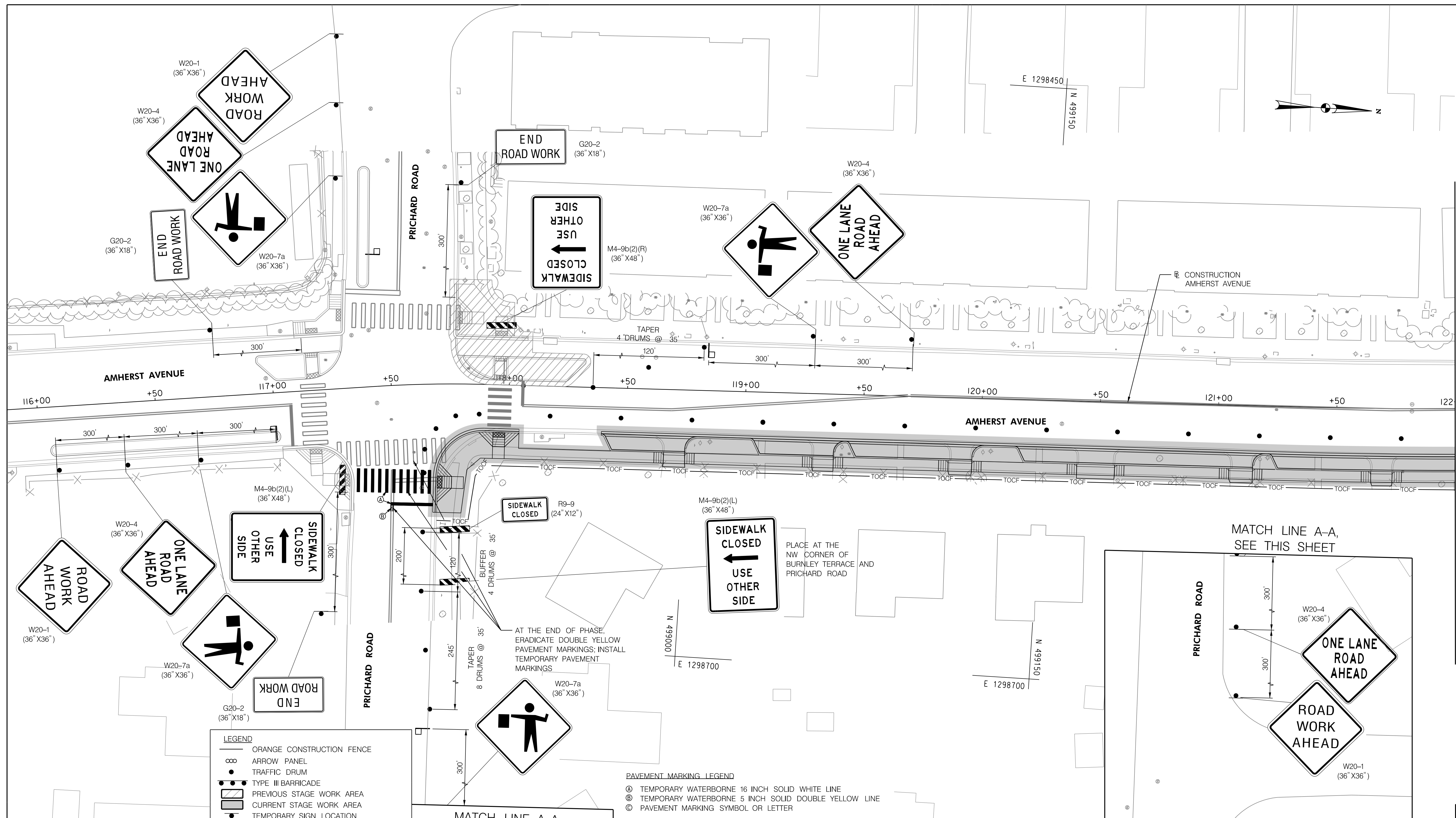
SCALE: 1"=20'
 SHEET 150 of 208



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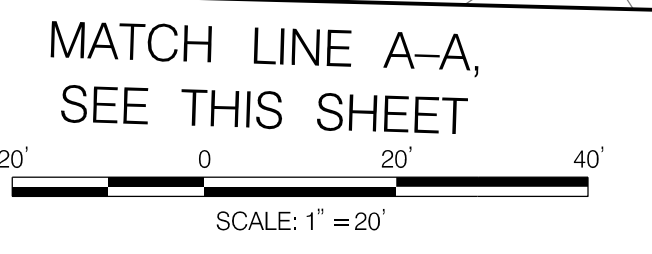
MATCH LINE STA. 122 + 00, SEE SHEET MT-11

LEGEND

- ORANGE CONSTRUCTION FENCE
- ARROW PANEL
- TRAFFIC DRUM
- TYPE III BARRICADE
- PREVIOUS STAGE WORK AREA
- CURRENT STAGE WORK AREA
- TEMPORARY SIGN LOCATION
- TEMPORARY WATER FILLED BARRIER
- TEMPORARY FLAGGER

PAVEMENT MARKING LEGEND

- Ⓐ TEMPORARY WATERBORNE 16 INCH SOLID WHITE LINE
- Ⓑ TEMPORARY WATERBORNE 5 INCH SOLID DOUBLE YELLOW LINE
- Ⓒ PAVEMENT MARKING SYMBOL OR LETTER



NO.	REVISION	BY	APP'D	DATE

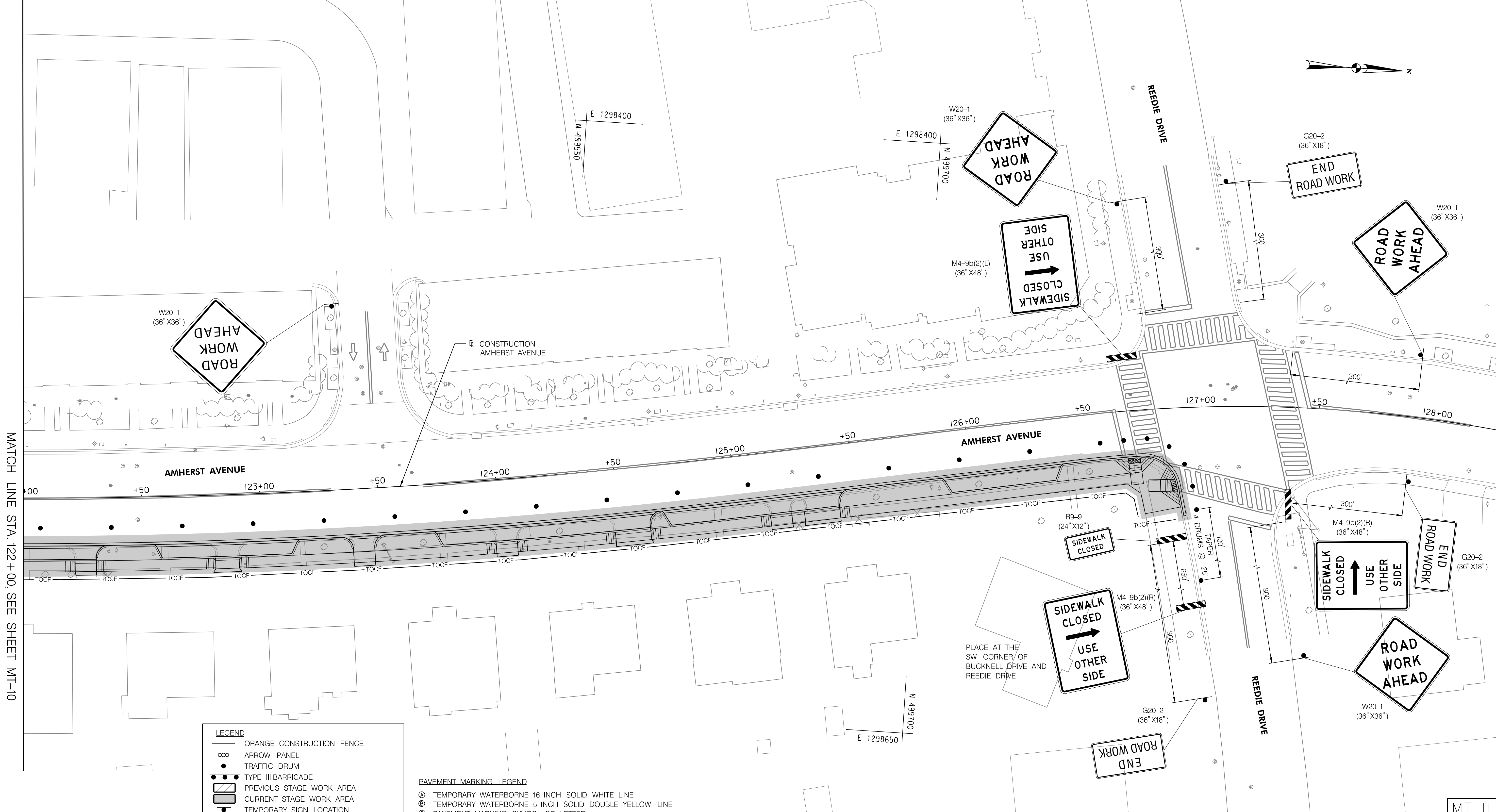
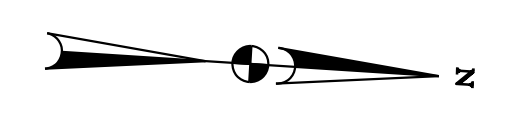
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AMHERST AVE CYCLE TRACK
 PHASE 2D
 MAINTENANCE OF TRAFFIC

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MT-10

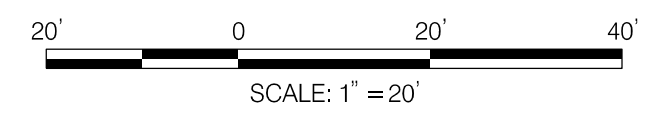


LEGEND

- ORANGE CONSTRUCTION FENCE
- ARROW PANEL
- TRAFFIC DRUM
- TYPE III BARRICADE
- PREVIOUS STAGE WORK AREA
- CURRENT STAGE WORK AREA
- TEMPORARY SIGN LOCATION
- TEMPORARY WATER FILLED BARRIER
- TEMPORARY FLAGGER

PAVEMENT MARKING LEGEND

- TEMPORARY WATERBORNE 16 INCH SOLID WHITE LINE
- TEMPORARY WATERBORNE 5 INCH SOLID DOUBLE YELLOW LINE
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Chief, Division of Transportation Engineering _____	Date _____

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DIVISION OF TRANSPORTATION ENGINEERING
MONTGOMERY COUNTY, MARYLAND

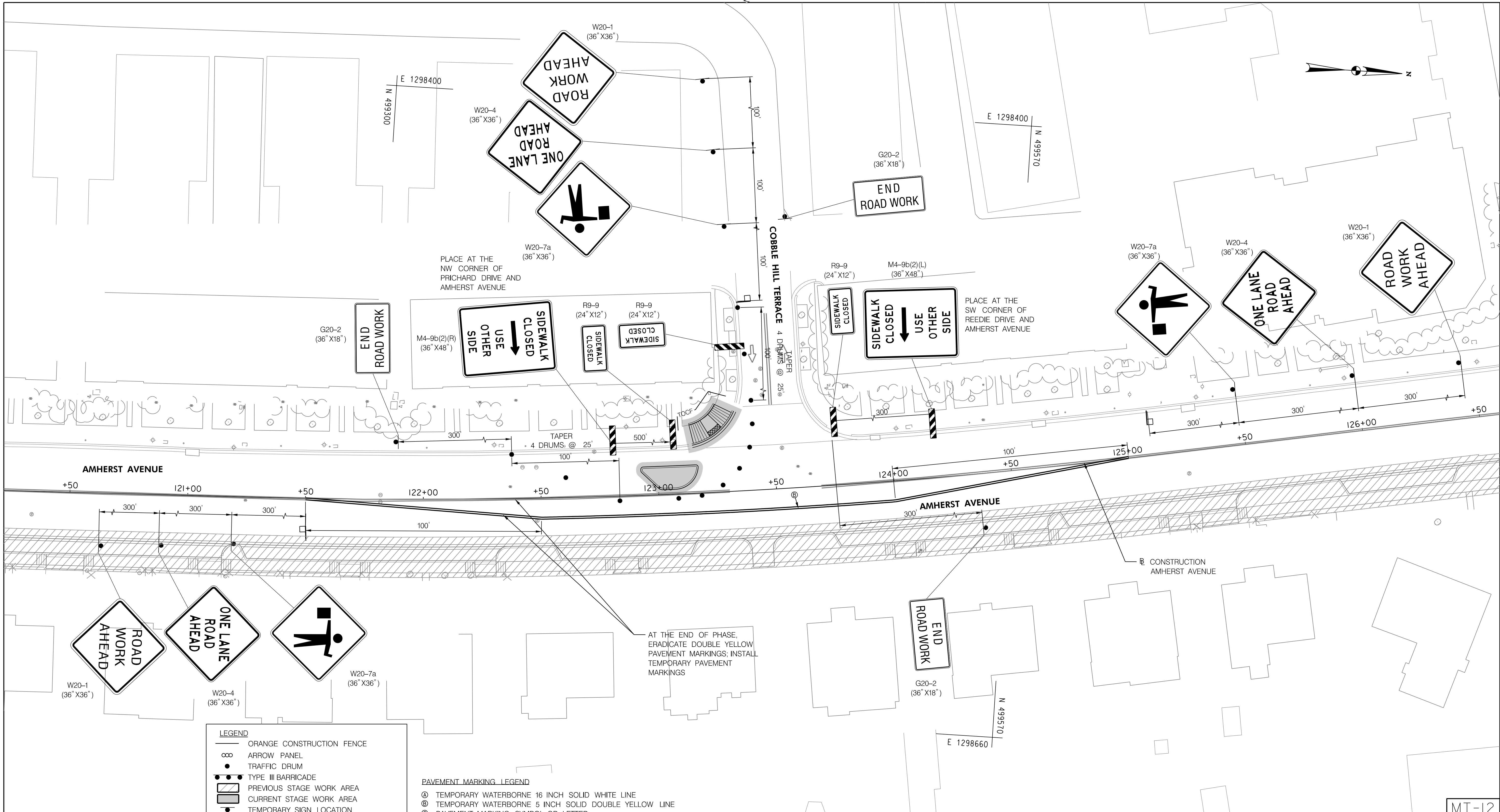
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 PHASE 2D
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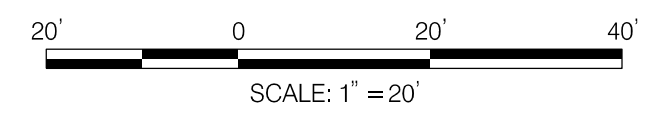


LEGEND

- ORANGE CONSTRUCTION FENCE
- ∞ ARROW PANEL
- TRAFFIC DRUM
- TYPE III BARRICADE
- ▨ PREVIOUS STAGE WORK AREA
- ▩ CURRENT STAGE WORK AREA
- TEMPORARY SIGN LOCATION
- ▤ TEMPORARY WATER FILLED BARRIER
- TEMPORARY FLAGGER

PAVEMENT MARKING LEGEND

- Ⓐ TEMPORARY WATERBORNE 16 INCH SOLID WHITE LINE
- Ⓑ TEMPORARY WATERBORNE 5 INCH SOLID DOUBLE YELLOW LINE
- Ⓒ PAVEMENT MARKING SYMBOL OR LETTER



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MONTGOMERY COUNTY, MARYLAND

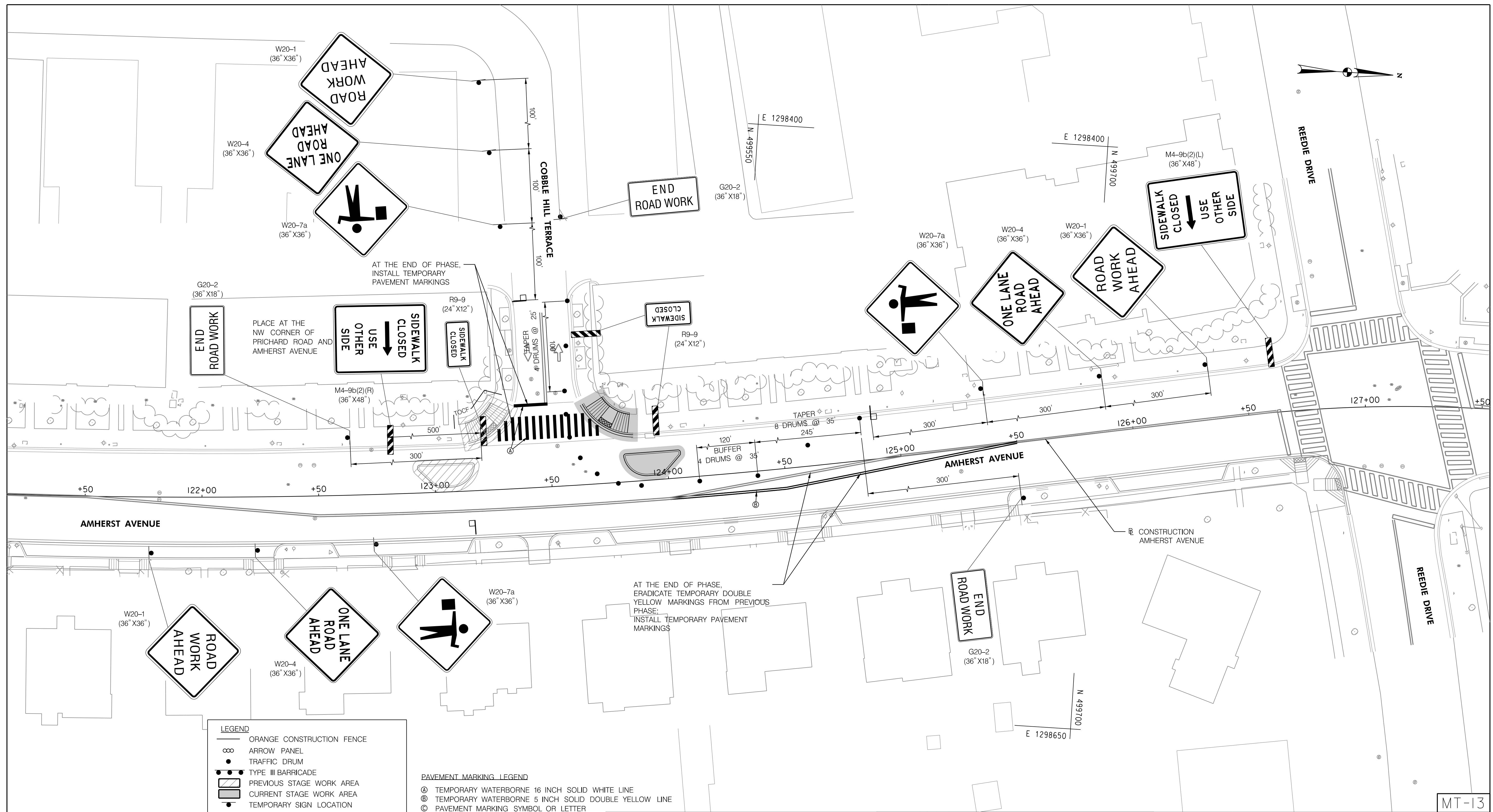
AMHERST AVE CYCLE TRACK
 PHASE 2E
 MAINTENANCE OF TRAFFIC

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MT-12

10/9/2023
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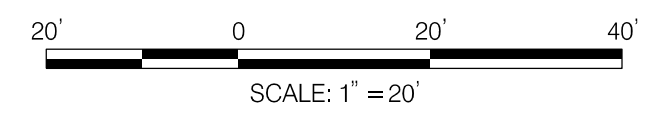


LEGEND

- ORANGE CONSTRUCTION FENCE
- ARROW PANEL
- TRAFFIC DRUM
- TYPE III BARRICADE
- PREVIOUS STAGE WORK AREA
- CURRENT STAGE WORK AREA
- TEMPORARY SIGN LOCATION
- TEMPORARY WATER FILLED BARRIER
- TEMPORARY FLAGGER

PAVEMENT MARKING LEGEND

- TEMPORARY WATERBORNE 16 INCH SOLID WHITE LINE
- TEMPORARY WATERBORNE 5 INCH SOLID DOUBLE YELLOW LINE
- PAVEMENT MARKING SYMBOL OR LETTER



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Chief, Division of Transportation Engineering _____	Date _____

DEPARTMENT OF TRANSPORTATION
DIVISION OF TRANSPORTATION ENGINEERING
MONTGOMERY COUNTY, MARYLAND

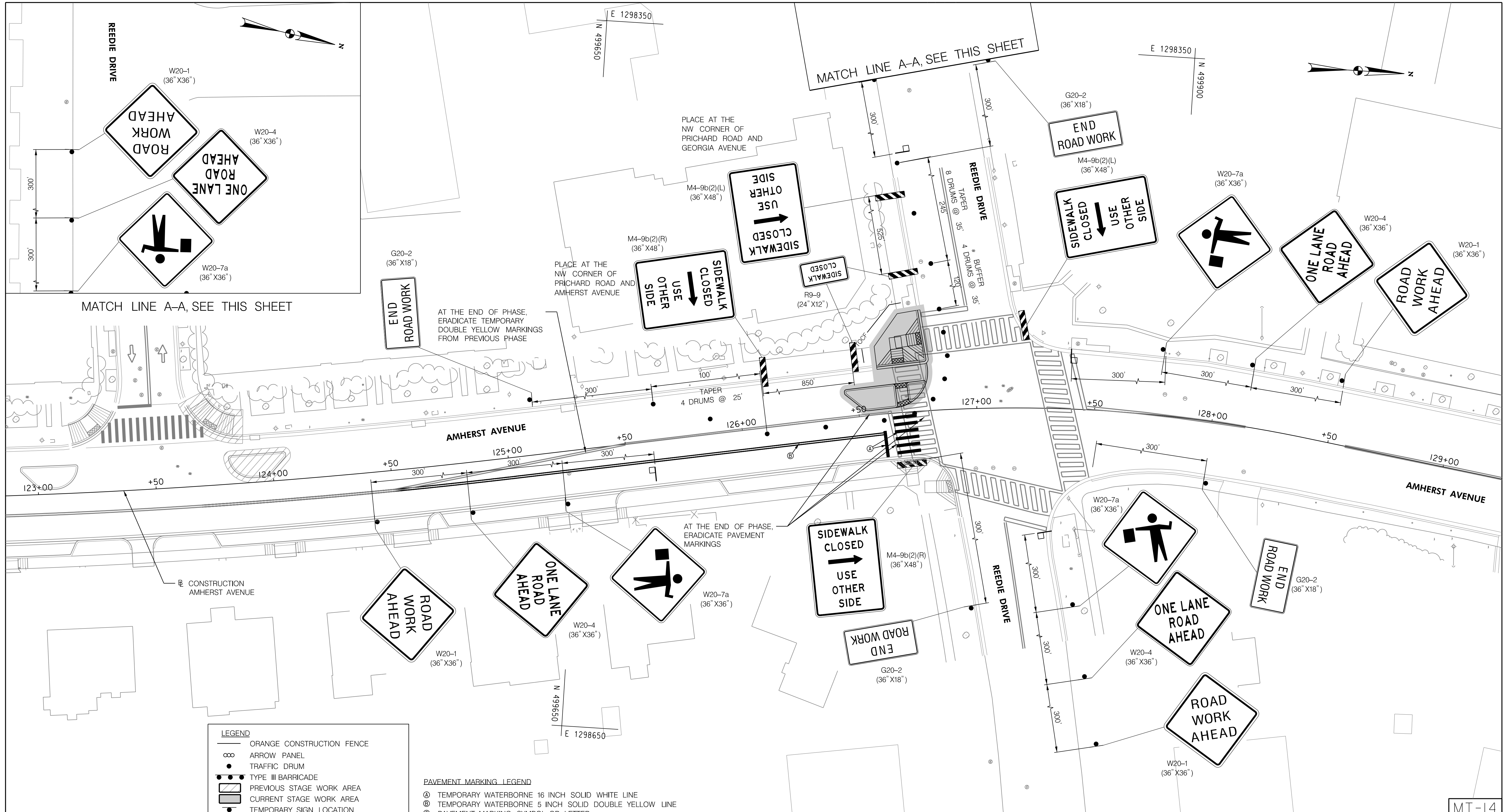
AMHERST AVE CYCLE TRACK
 PHASE 2F
 MAINTENANCE OF TRAFFIC

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MT-13

10/9/2023
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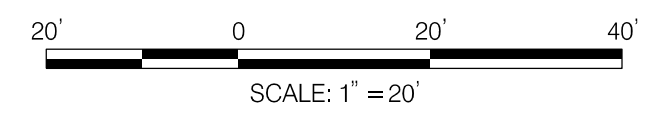


LEGEND

- ORANGE CONSTRUCTION FENCE
- ∞ ARROW PANEL
- TRAFFIC DRUM
- TYPE III BARRICADE
- ▨ PREVIOUS STAGE WORK AREA
- ▩ CURRENT STAGE WORK AREA
- TEMPORARY SIGN LOCATION
- ▬ TEMPORARY WATER FILLED BARRIER
- TEMPORARY FLAGGER

PAVEMENT MARKING LEGEND

- Ⓐ TEMPORARY WATERBORNE 16 INCH SOLID WHITE LINE
- Ⓑ TEMPORARY WATERBORNE 5 INCH SOLID DOUBLE YELLOW LINE
- Ⓒ PAVEMENT MARKING SYMBOL OR LETTER



NO.	REVISION	BY	APP'D	DATE

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CHECKED BY: SJZ	DATE: OCTOBER, 2023
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Chief, Design Section	Date
APPROVED	
Chief, Division of Transportation Engineering	Date

DEPARTMENT OF TRANSPORTATION
 DIVISION OF TRANSPORTATION ENGINEERING
 MONTGOMERY COUNTY, MARYLAND

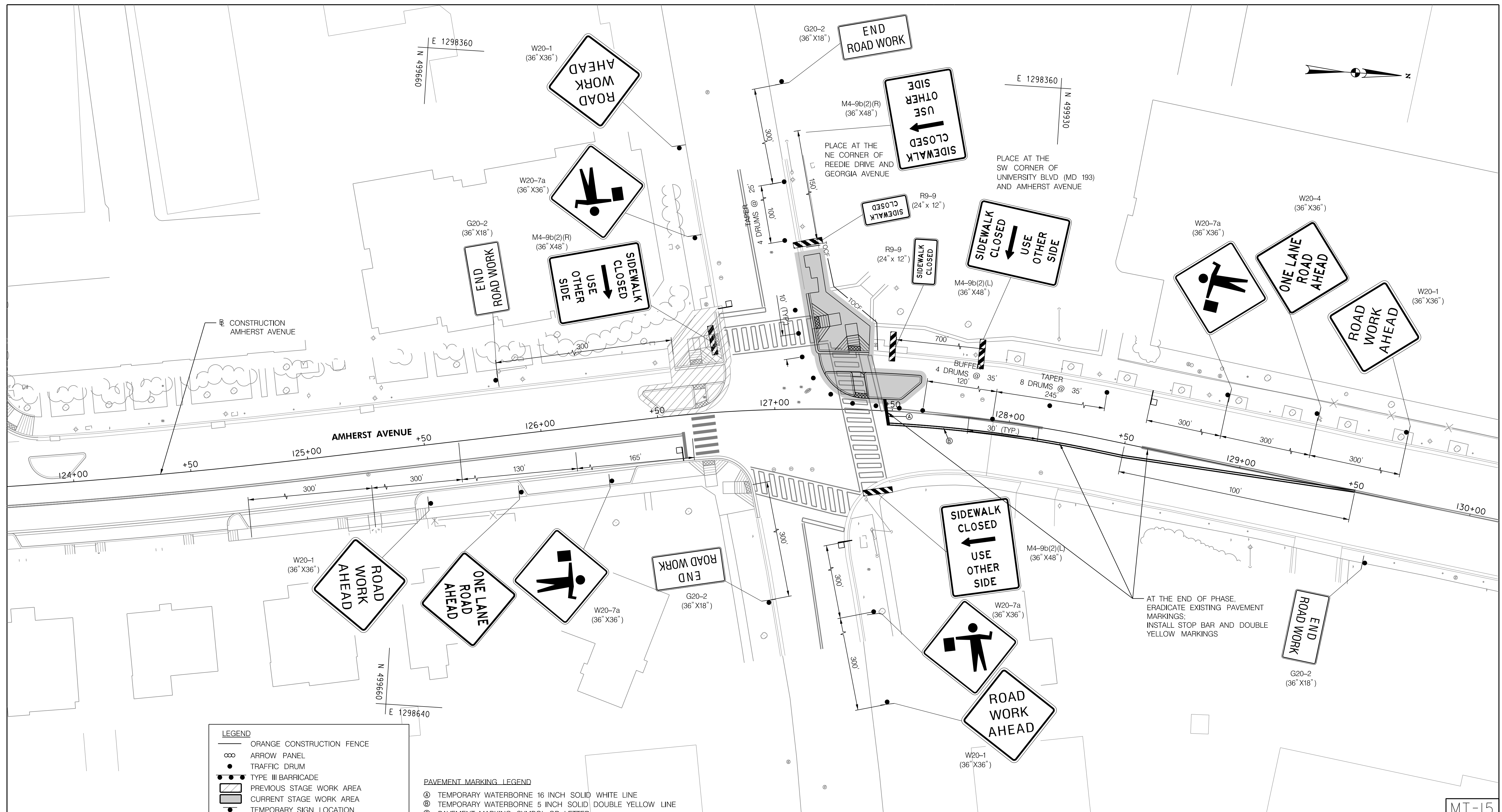
AMHERST AVE CYCLE TRACK
 PHASE 3A
 MAINTENANCE OF TRAFFIC

SCALE: 1"=20' SHEET 155 of 208

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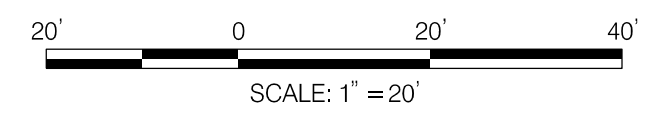


LEGEND

- ORANGE CONSTRUCTION FENCE
- ∞ ARROW PANEL
- TRAFFIC DRUM
- TYPE III BARRICADE
- ▨ PREVIOUS STAGE WORK AREA
- ▩ CURRENT STAGE WORK AREA
- TEMPORARY SIGN LOCATION
- ▬ TEMPORARY WATER FILLED BARRIER
- TEMPORARY FLAGGER

PAVEMENT MARKING LEGEND

- Ⓐ TEMPORARY WATERBORNE 16 INCH SOLID WHITE LINE
- Ⓑ TEMPORARY WATERBORNE 5 INCH SOLID DOUBLE YELLOW LINE
- Ⓒ PAVEMENT MARKING SYMBOL OR LETTER



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DEPARTMENT OF TRANSPORTATION
DIVISION OF TRANSPORTATION ENGINEERING
MONTGOMERY COUNTY, MARYLAND

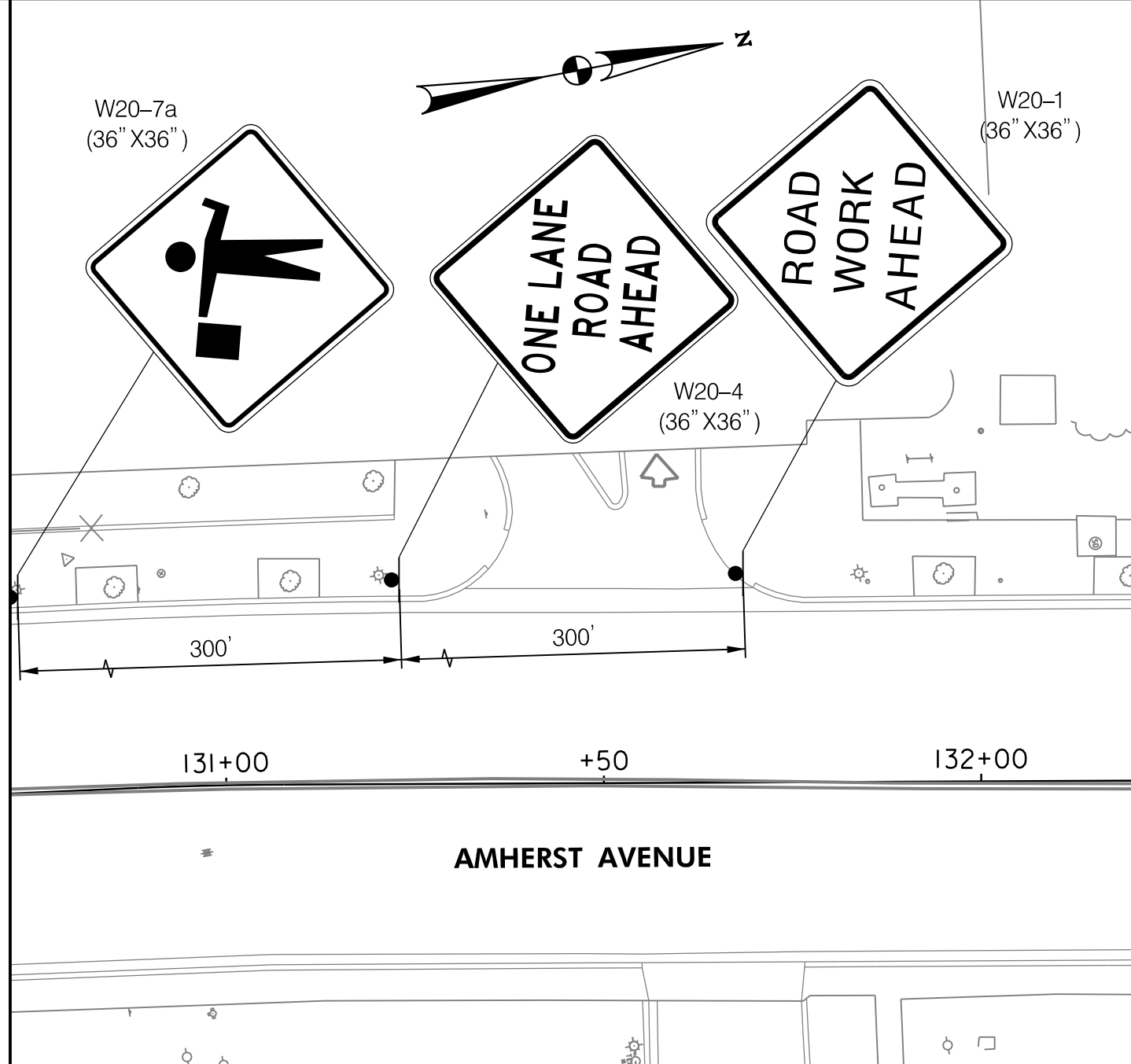
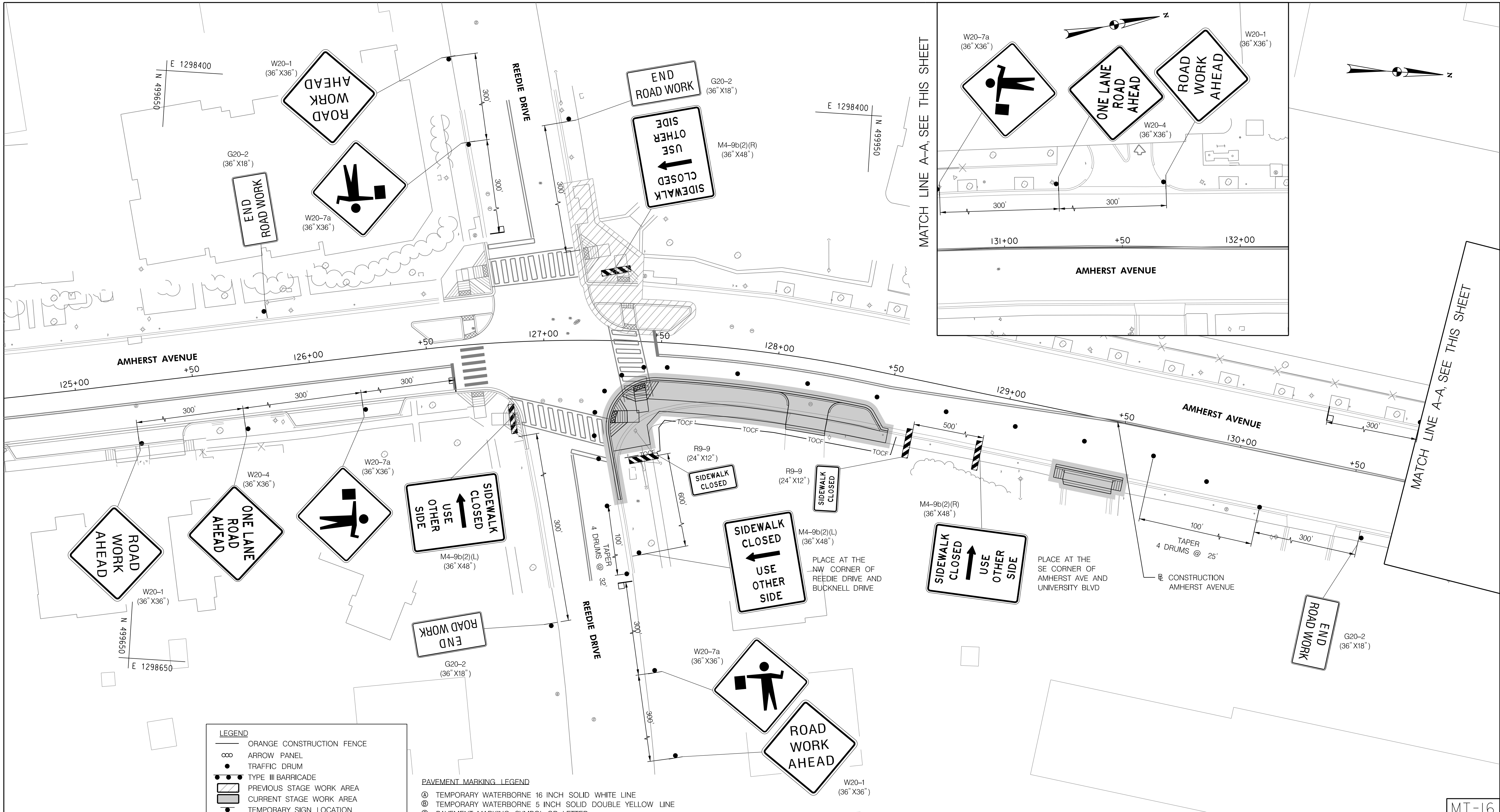
AMHERST AVE CYCLE TRACK
 PHASE 3B
 MAINTENANCE OF TRAFFIC



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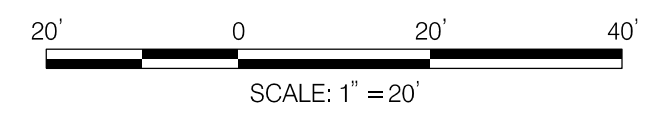


LEGEND

- ORANGE CONSTRUCTION FENCE
- ARROW PANEL
- TRAFFIC DRUM
- TYPE III BARRICADE
- PREVIOUS STAGE WORK AREA
- CURRENT STAGE WORK AREA
- TEMPORARY SIGN LOCATION
- TEMPORARY WATER FILLED BARRIER
- TEMPORARY FLAGGER

PAVEMENT MARKING LEGEND

- TEMPORARY WATERBORNE 16 INCH SOLID WHITE LINE
- TEMPORARY WATERBORNE 5 INCH SOLID DOUBLE YELLOW LINE
- PAVEMENT MARKING SYMBOL OR LETTER



NO.	REVISION	BY	APP'D	DATE

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Chief, Division of Transportation Engineering _____	Date _____

DEPARTMENT OF TRANSPORTATION
 DIVISION OF TRANSPORTATION ENGINEERING
 MONTGOMERY COUNTY, MARYLAND

AMHERST AVE CYCLE TRACK
 PHASE 3C
 MAINTENANCE OF TRAFFIC

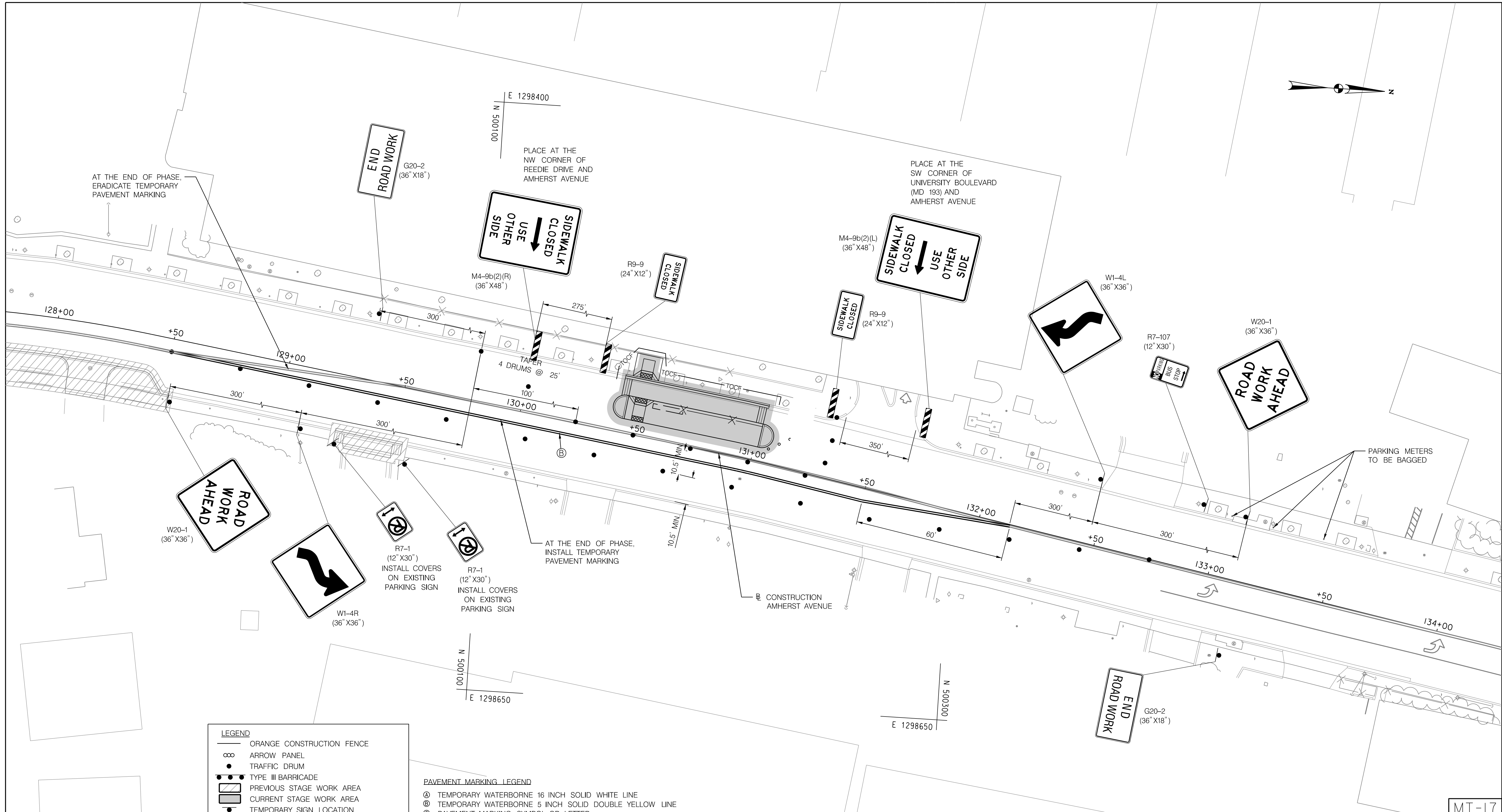


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MT-16

10/9/2023
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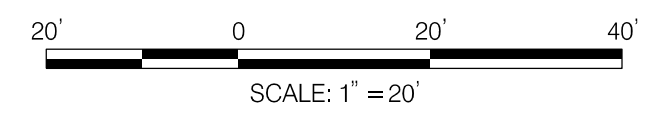


LEGEND

- ORANGE CONSTRUCTION FENCE
- ∞ ARROW PANEL
- TRAFFIC DRUM
- ▬ TYPE III BARRICADE
- ▨ PREVIOUS STAGE WORK AREA
- ▩ CURRENT STAGE WORK AREA
- TEMPORARY SIGN LOCATION
- ▬ TEMPORARY WATER FILLED BARRIER
- TEMPORARY FLAGGER

PAVEMENT MARKING LEGEND

- Ⓐ TEMPORARY WATERBORNE 16 INCH SOLID WHITE LINE
- Ⓑ TEMPORARY WATERBORNE 5 INCH SOLID DOUBLE YELLOW LINE
- Ⓒ PAVEMENT MARKING SYMBOL OR LETTER



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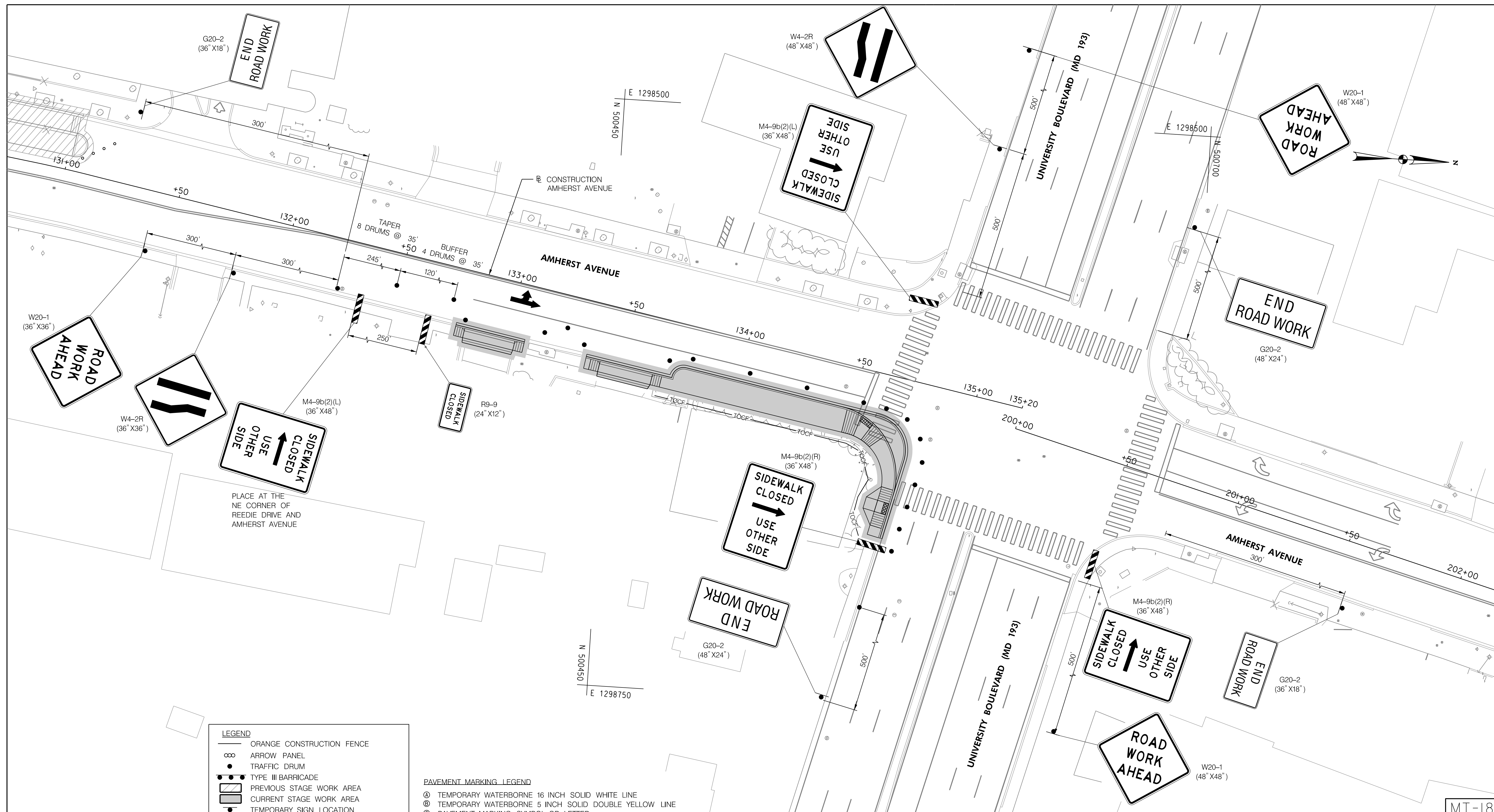
DEPARTMENT OF TRANSPORTATION
 DIVISION OF TRANSPORTATION ENGINEERING
 MONTGOMERY COUNTY, MARYLAND

AMHERST AVE CYCLE TRACK
 PHASE 4A
 MAINTENANCE OF TRAFFIC

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MT-17

10/9/2023
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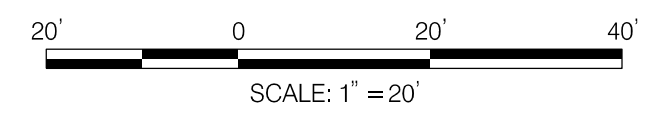


LEGEND

- ORANGE CONSTRUCTION FENCE
- ∞ ARROW PANEL
- TRAFFIC DRUM
- TYPE III BARRICADE
- ▨ PREVIOUS STAGE WORK AREA
- ▩ CURRENT STAGE WORK AREA
- TEMPORARY SIGN LOCATION
- ▬ TEMPORARY WATER FILLED BARRIER
- TEMPORARY FLAGGER

PAVEMENT MARKING LEGEND

- Ⓐ TEMPORARY WATERBORNE 16 INCH SOLID WHITE LINE
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DEPARTMENT OF TRANSPORTATION
DIVISION OF TRANSPORTATION ENGINEERING
MONTGOMERY COUNTY, MARYLAND

AMHERST AVE CYCLE TRACK
 PHASE 4B
 MAINTENANCE OF TRAFFIC

SCALE: 1"=20'
 SHEET 159 of 208

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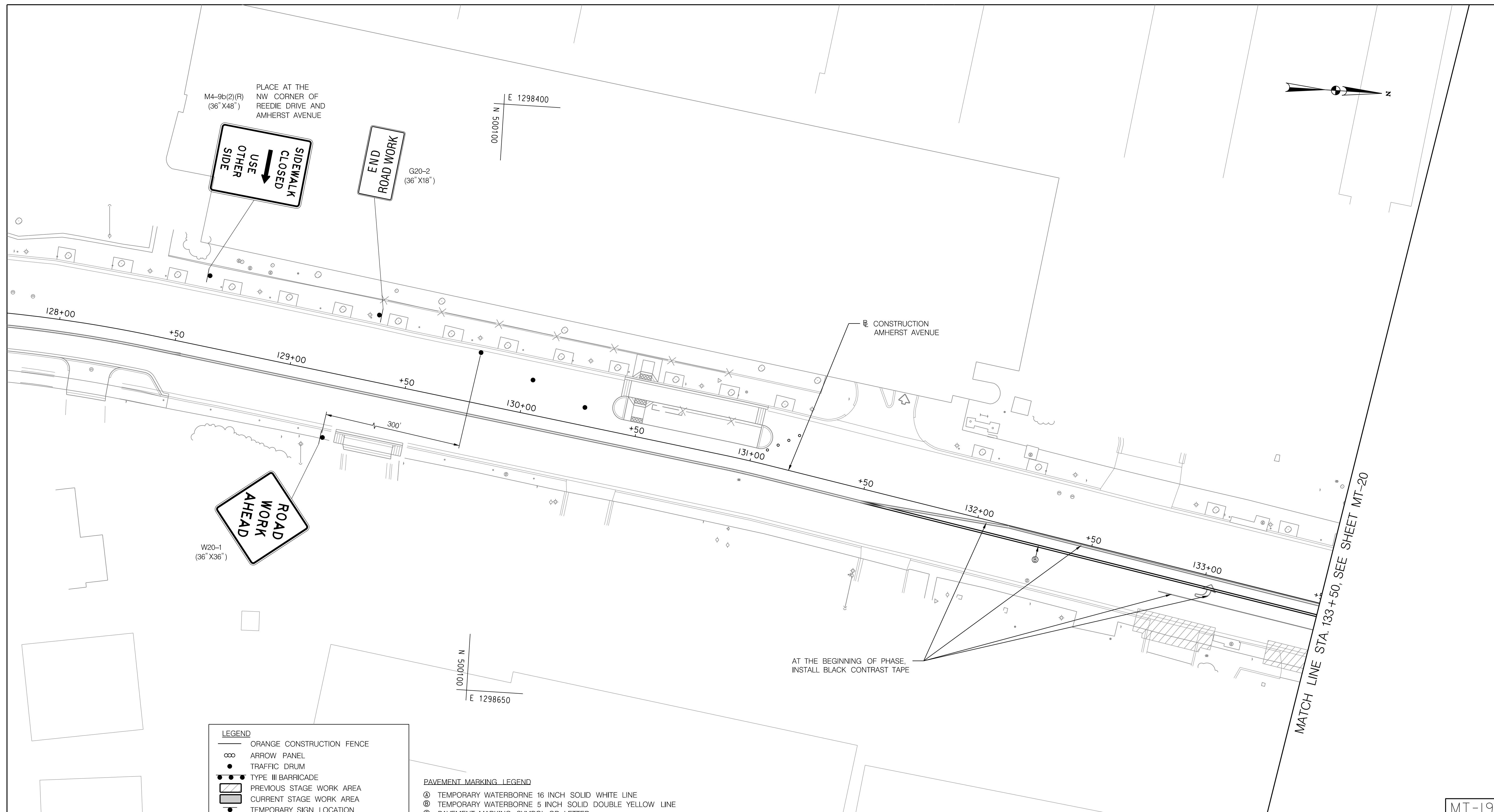
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BIPPA
 Bicycle and Pedestrian Priority Areas

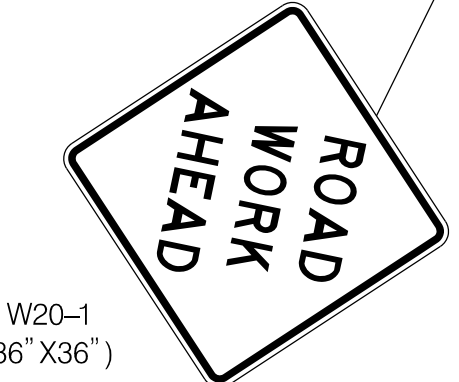
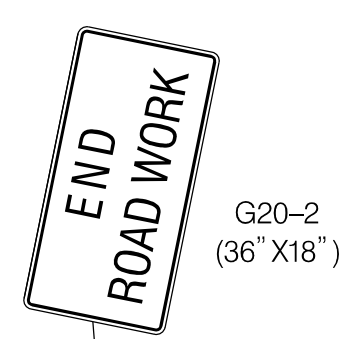
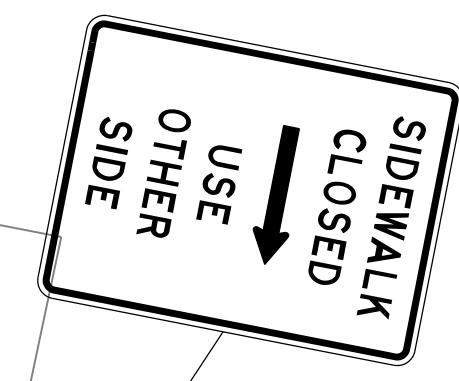
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 LICENSE NO.: _____ EXPIRATION DATE: _____

MT-18

10/9/2023
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PLACE AT THE
 NW CORNER OF
 REEDIE DRIVE AND
 AMHERST AVENUE

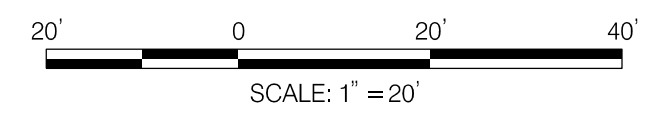


LEGEND

- ORANGE CONSTRUCTION FENCE
- ∞ ARROW PANEL
- TRAFFIC DRUM
- TYPE III BARRICADE
- ▨ PREVIOUS STAGE WORK AREA
- ▩ CURRENT STAGE WORK AREA
- TEMPORARY SIGN LOCATION
- ▤ TEMPORARY WATER FILLED BARRIER
- TEMPORARY FLAGGER

PAVEMENT MARKING LEGEND

- Ⓐ TEMPORARY WATERBORNE 16 INCH SOLID WHITE LINE
- Ⓑ TEMPORARY WATERBORNE 5 INCH SOLID DOUBLE YELLOW LINE
- Ⓒ PAVEMENT MARKING SYMBOL OR LETTER



NO.	REVISION	BY	APP'D	DATE

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APPROVED	
Chief, Division of Transportation Engineering	Date

DEPARTMENT OF TRANSPORTATION
DIVISION OF TRANSPORTATION ENGINEERING
MONTGOMERY COUNTY, MARYLAND

AMHERST AVE CYCLE TRACK
 PHASE 4C
 MAINTENANCE OF TRAFFIC

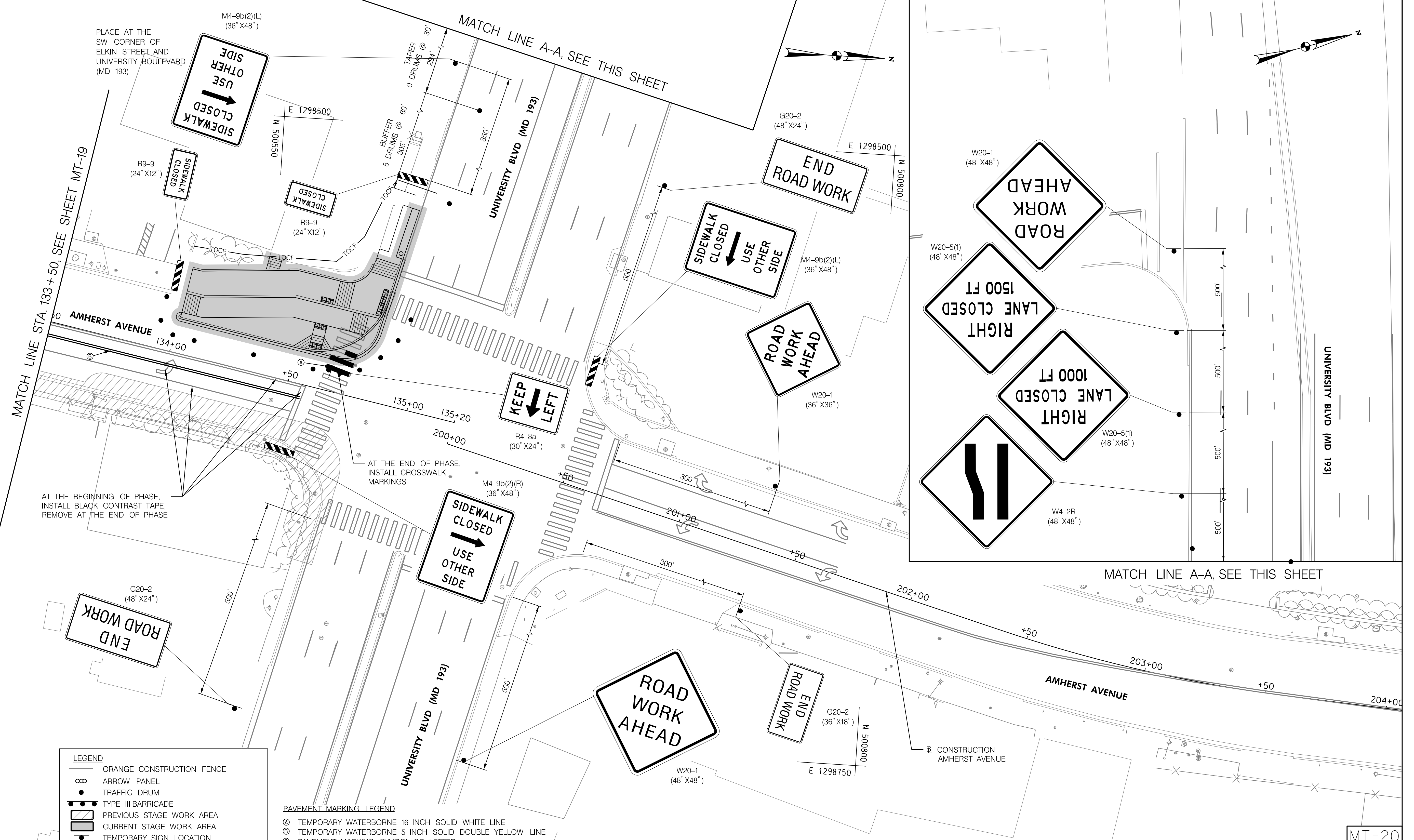


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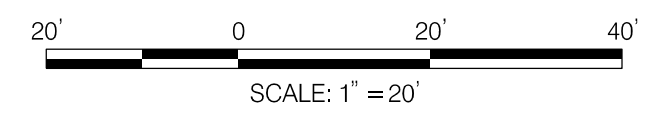
MT-19

10/9/2023
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- LEGEND**
- ORANGE CONSTRUCTION FENCE
 - ∞ ARROW PANEL
 - TRAFFIC DRUM
 - TYPE III BARRICADE
 - ▨ PREVIOUS STAGE WORK AREA
 - ▩ CURRENT STAGE WORK AREA
 - TEMPORARY SIGN LOCATION
 - ▬ TEMPORARY WATER FILLED BARRIER
 - TEMPORARY FLAGGER

- PAVEMENT MARKING LEGEND**
- Ⓐ TEMPORARY WATERBORNE 16 INCH SOLID WHITE LINE
 - Ⓑ TEMPORARY WATERBORNE 5 INCH SOLID DOUBLE YELLOW LINE
 - Ⓒ PAVEMENT MARKING SYMBOL OR LETTER



NO.	REVISION	BY	APP'D	DATE

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APPROVED	
Chief, Division of Transportation Engineering _____	Date _____

DEPARTMENT OF TRANSPORTATION
 DIVISION OF TRANSPORTATION ENGINEERING
 MONTGOMERY COUNTY, MARYLAND

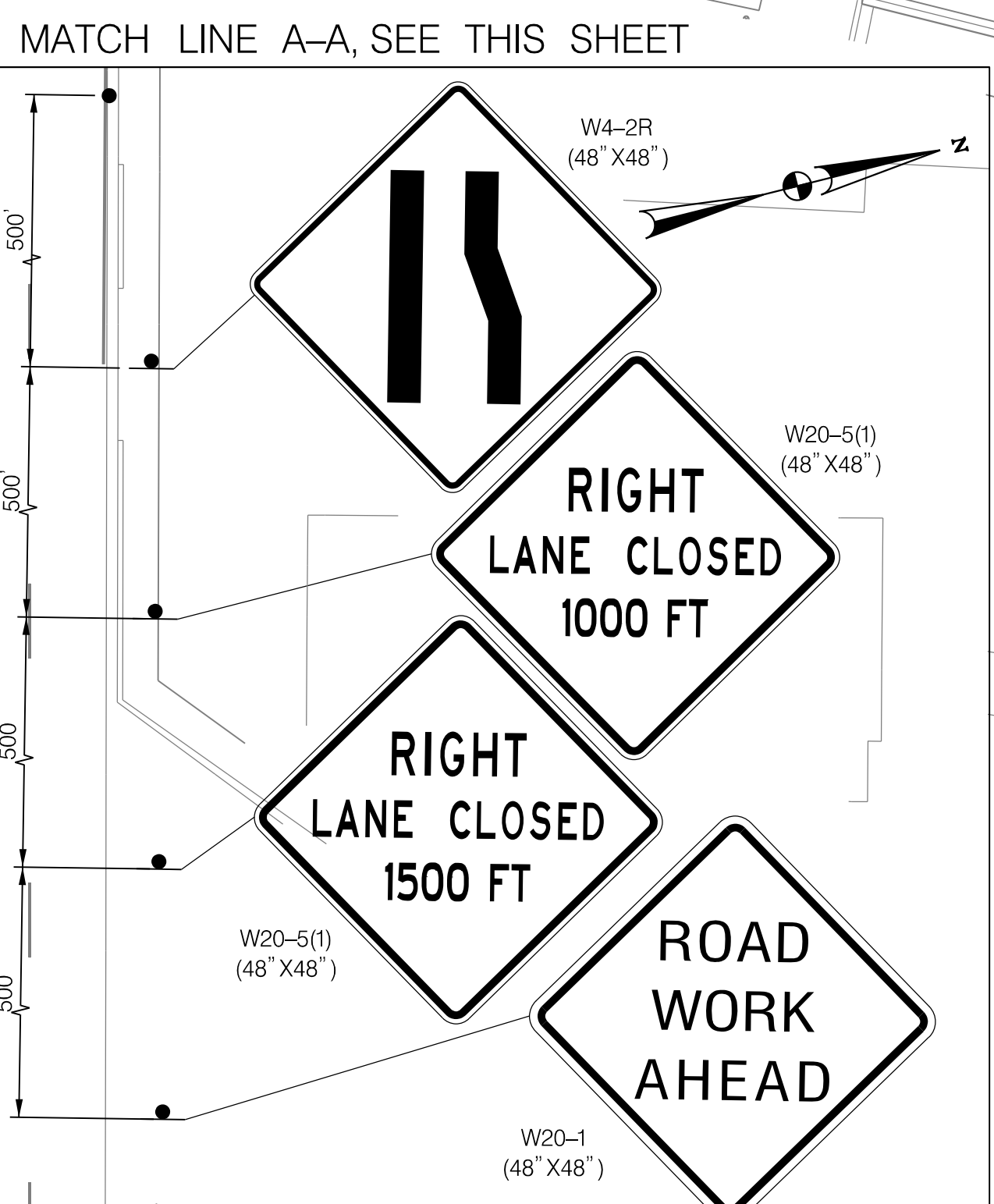
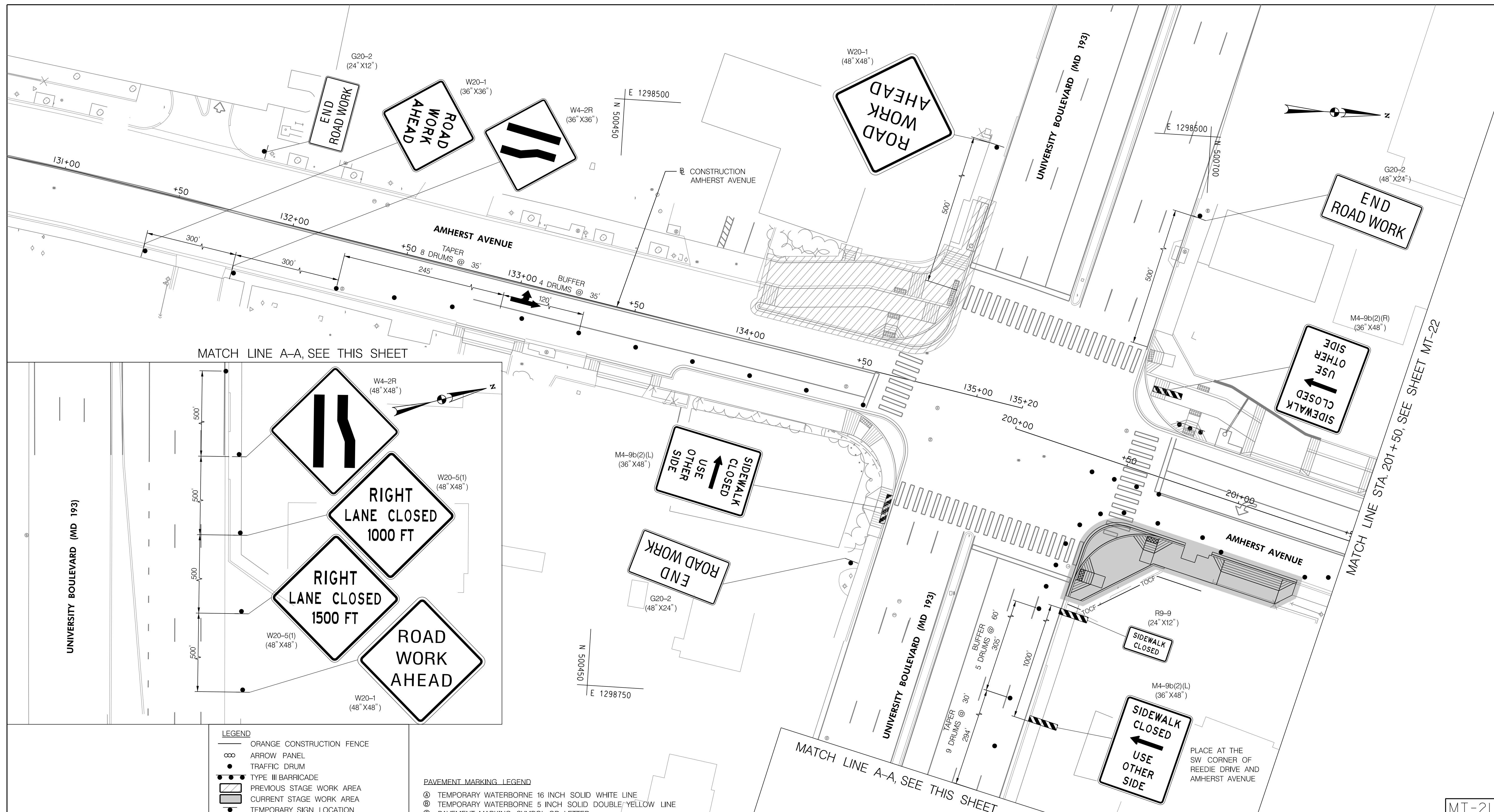
AMHERST AVE CYCLE TRACK
 PHASE 4C
 MAINTENANCE OF TRAFFIC



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- LEGEND**
- ORANGE CONSTRUCTION FENCE
 - ∞ ARROW PANEL
 - TRAFFIC DRUM
 - ▬ TYPE III BARRICADE
 - ▨ PREVIOUS STAGE WORK AREA
 - ▩ CURRENT STAGE WORK AREA
 - TEMPORARY SIGN LOCATION
 - ▬ TEMPORARY WATER FILLED BARRIER
 - TEMPORARY FLAGGER

- PAVEMENT MARKING LEGEND**
- Ⓐ TEMPORARY WATERBORNE 16 INCH SOLID WHITE LINE
 - Ⓑ TEMPORARY WATERBORNE 5 INCH SOLID DOUBLE YELLOW LINE
 - Ⓒ PAVEMENT MARKING SYMBOL OR LETTER
- SCALE: 1" = 20'

NO.	REVISION	BY	APP'D	DATE

DESIGNED BY: UMK DATE: OCTOBER, 2023
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 CHECKED BY: SJZ DATE: OCTOBER, 2023
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RECOMMENDED FOR APPROVAL

Chief, Design Section _____ Date _____

APPROVED

Chief, Division of Transportation Engineering _____ Date _____

DEPARTMENT OF TRANSPORTATION
 DIVISION OF TRANSPORTATION ENGINEERING
 MONTGOMERY COUNTY, MARYLAND

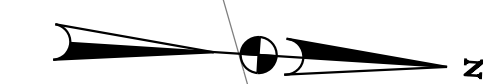
AMHERST AVE CYCLE TRACK
 PHASE 4D
 MAINTENANCE OF TRAFFIC

SCALE: 1"=20' SHEET 162 of 208

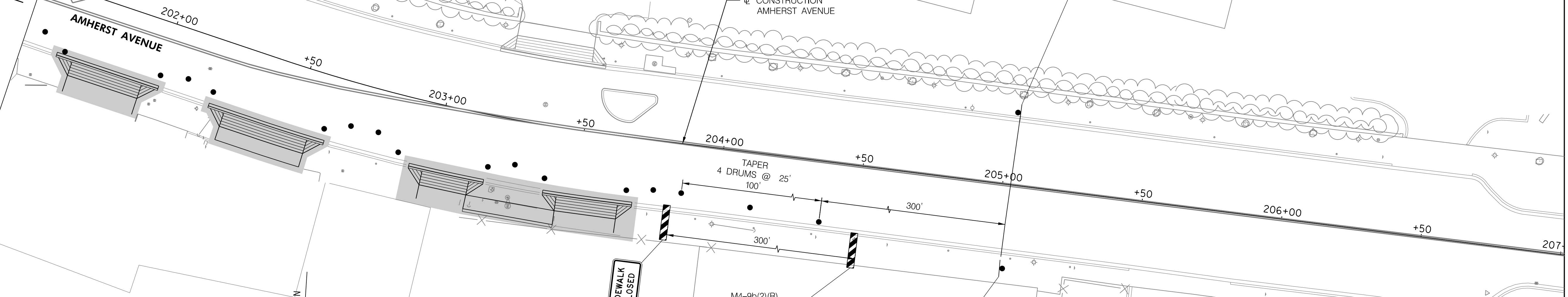


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MATCH LINE STA. 201+50, SEE SHEET MT-21

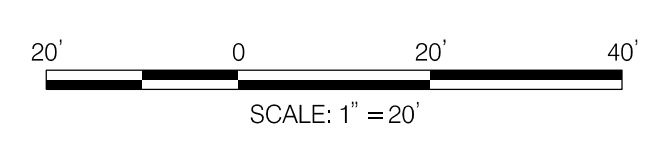


LEGEND

- ORANGE CONSTRUCTION FENCE
- ARROW PANEL
- TRAFFIC DRUM
- TYPE III BARRICADE
- PREVIOUS STAGE WORK AREA
- CURRENT STAGE WORK AREA
- TEMPORARY SIGN LOCATION
- TEMPORARY WATER FILLED BARRIER
- TEMPORARY FLAGGER

PAVEMENT MARKING LEGEND

- TEMPORARY WATERBORNE 16 INCH SOLID WHITE LINE
- TEMPORARY WATERBORNE 5 INCH SOLID DOUBLE YELLOW LINE
- PAVEMENT MARKING SYMBOL OR LETTER



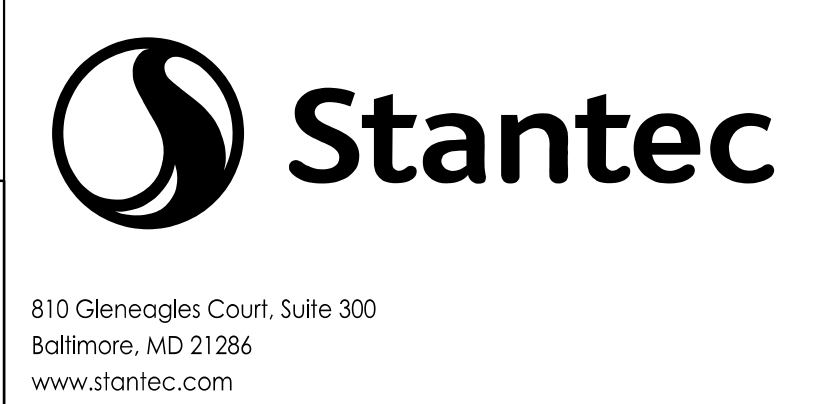
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DEPARTMENT OF TRANSPORTATION
DIVISION OF TRANSPORTATION ENGINEERING
MONTGOMERY COUNTY, MARYLAND

AMHERST AVE CYCLE TRACK
 PHASE 4D
 MAINTENANCE OF TRAFFIC

SCALE: 1"=20' SHEET 163 of 208

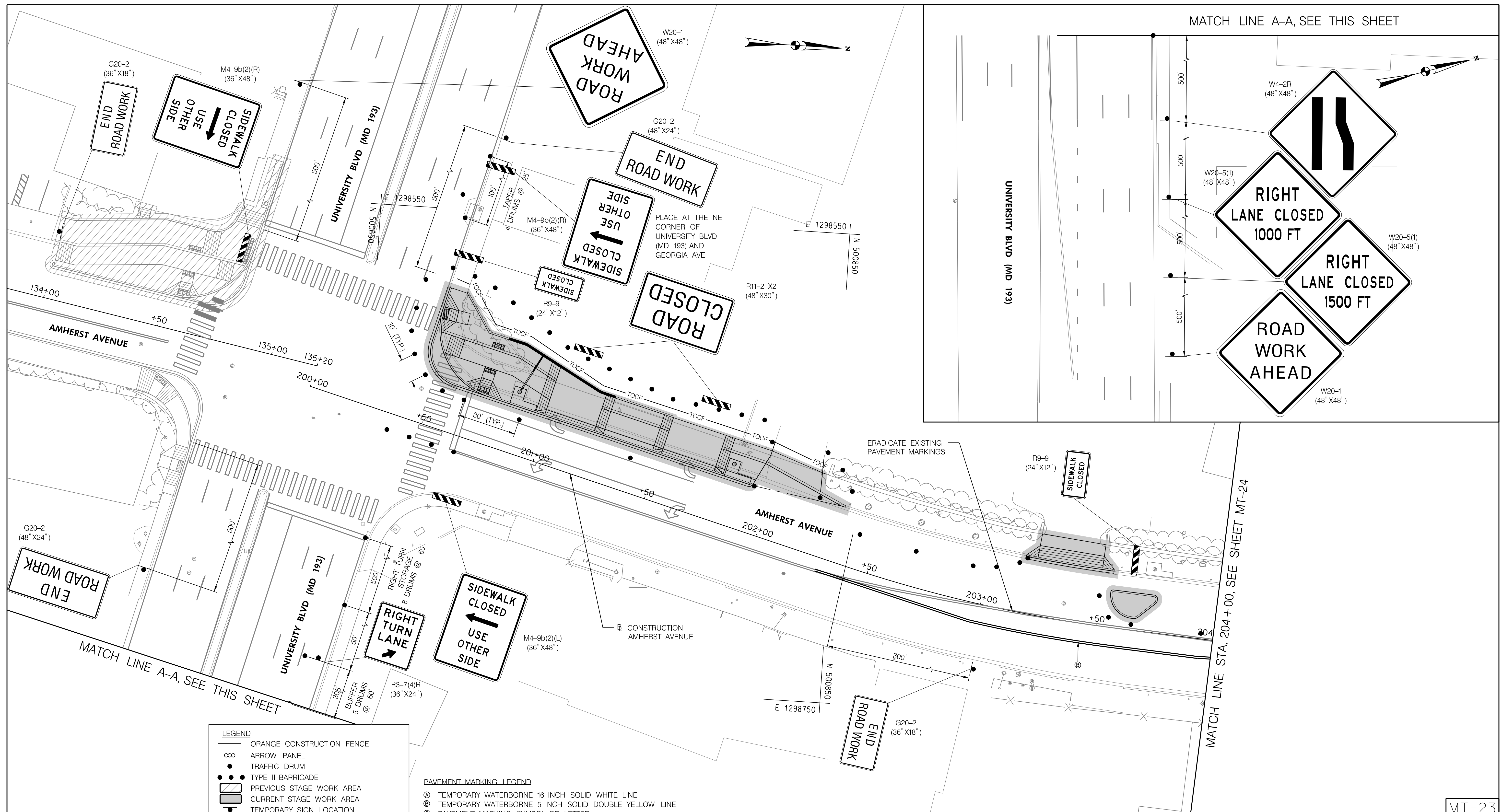


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MT-22

10/9/2023
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MATCH LINE A-A, SEE THIS SHEET

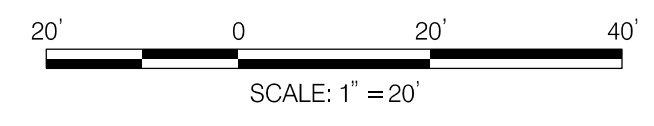
MATCH LINE STA. 204+00, SEE SHEET MT-24

LEGEND

- ORANGE CONSTRUCTION FENCE
- ∞ ARROW PANEL
- TRAFFIC DRUM
- TYPE III BARRICADE
- ▨ PREVIOUS STAGE WORK AREA
- ▩ CURRENT STAGE WORK AREA
- TEMPORARY SIGN LOCATION
- ▬ TEMPORARY WATER FILLED BARRIER
- TEMPORARY FLAGGER

PAVEMENT MARKING LEGEND

- Ⓐ TEMPORARY WATERBORNE 16 INCH SOLID WHITE LINE
- Ⓑ TEMPORARY WATERBORNE 5 INCH SOLID DOUBLE YELLOW LINE
- Ⓒ PAVEMENT MARKING SYMBOL OR LETTER



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DEPARTMENT OF TRANSPORTATION
 DIVISION OF TRANSPORTATION ENGINEERING
 MONTGOMERY COUNTY, MARYLAND

AMHERST AVE CYCLE TRACK
 PHASE 4E
 MAINTENANCE OF TRAFFIC

SCALE: 1"=20'

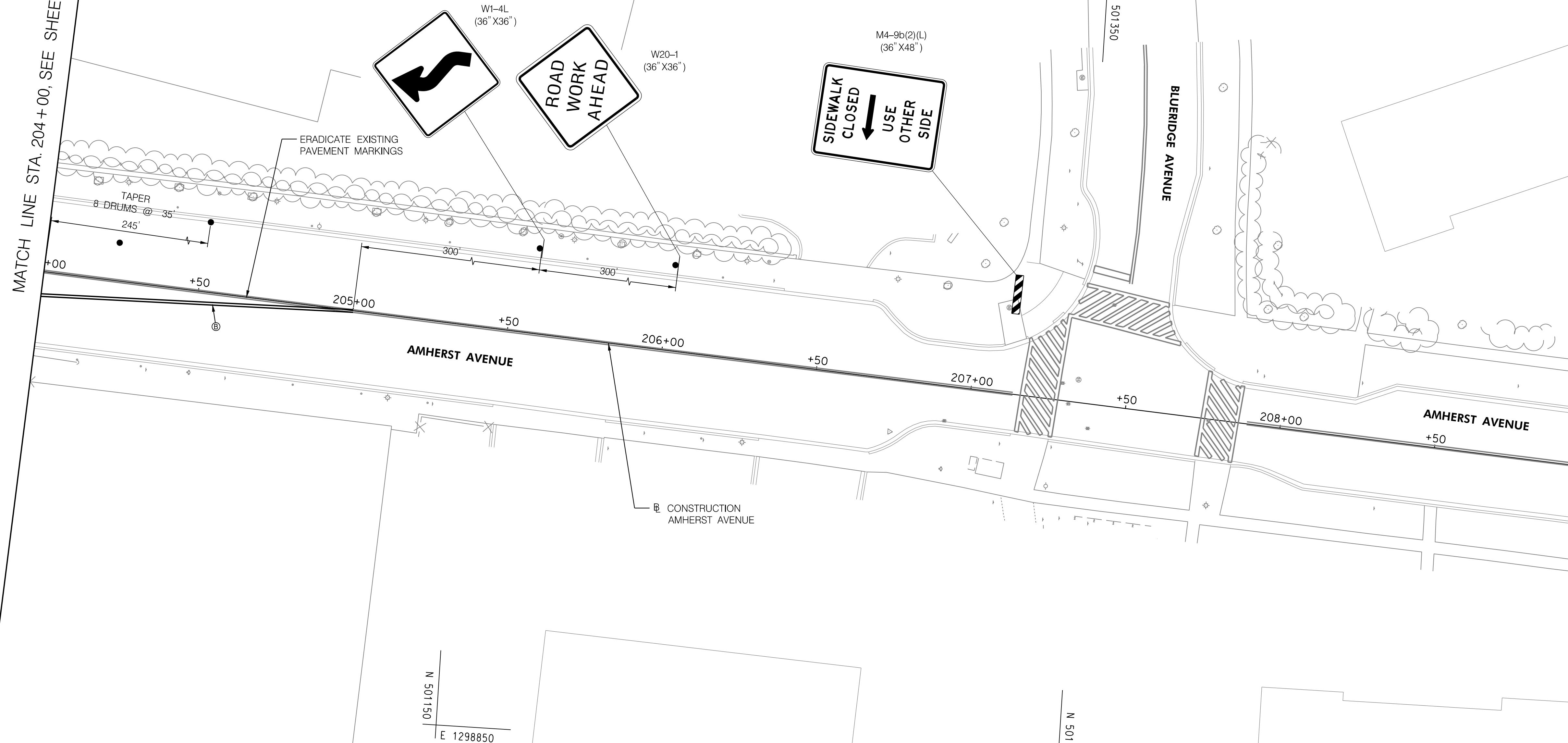
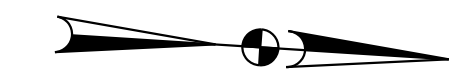
SHEET 164 of 208



MT-23

10/9/2023
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MATCH LINE STA. 204+00, SEE SHEET MT-23

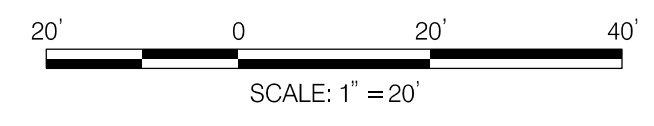


LEGEND

- ORANGE CONSTRUCTION FENCE
- ARROW PANEL
- TRAFFIC DRUM
- TYPE III BARRICADE
- PREVIOUS STAGE WORK AREA
- CURRENT STAGE WORK AREA
- TEMPORARY SIGN LOCATION
- TEMPORARY WATER FILLED BARRIER
- TEMPORARY FLAGGER

PAVEMENT MARKING LEGEND

- Ⓐ TEMPORARY WATERBORNE 16 INCH SOLID WHITE LINE
- Ⓑ TEMPORARY WATERBORNE 5 INCH SOLID DOUBLE YELLOW LINE
- Ⓒ PAVEMENT MARKING SYMBOL OR LETTER



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DEPARTMENT OF TRANSPORTATION
DIVISION OF TRANSPORTATION ENGINEERING
MONTGOMERY COUNTY, MARYLAND

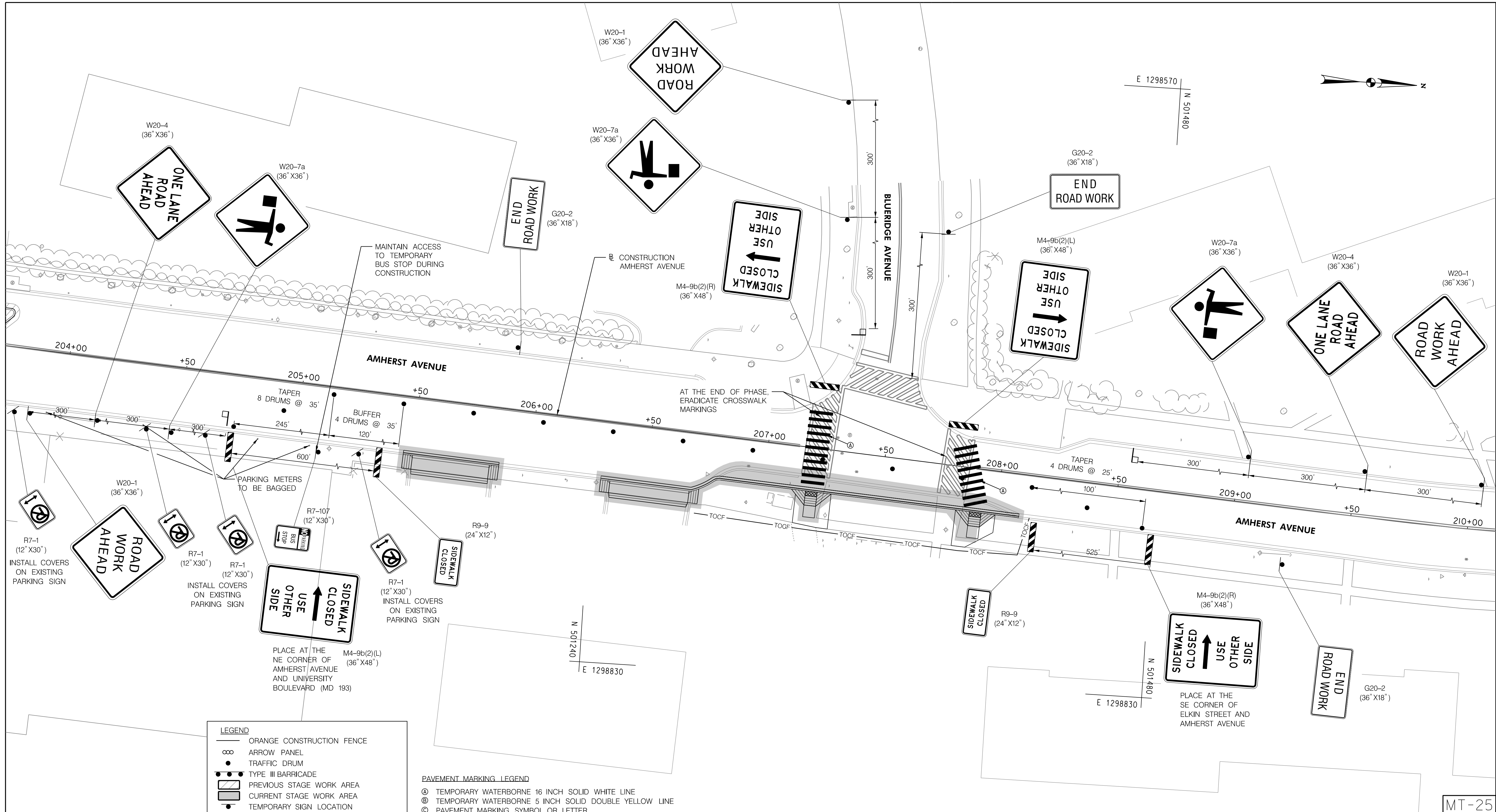
AMHERST AVE CYCLE TRACK
 PHASE 4E
 MAINTENANCE OF TRAFFIC

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MT-24

10/9/2023
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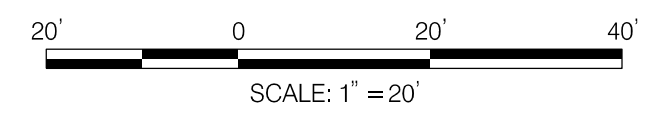


LEGEND

- ORANGE CONSTRUCTION FENCE
- ∞ ARROW PANEL
- TRAFFIC DRUM
- ▬ TYPE III BARRICADE
- ▨ PREVIOUS STAGE WORK AREA
- ▩ CURRENT STAGE WORK AREA
- TEMPORARY SIGN LOCATION
- ▬ TEMPORARY WATER FILLED BARRIER
- TEMPORARY FLAGGER

PAVEMENT MARKING LEGEND

- Ⓐ TEMPORARY WATERBORNE 16 INCH SOLID WHITE LINE
- Ⓑ TEMPORARY WATERBORNE 5 INCH SOLID DOUBLE YELLOW LINE
- Ⓒ PAVEMENT MARKING SYMBOL OR LETTER



NO.	REVISION	BY	APP'D	DATE

DESIGNED BY: UMK	DATE: OCTOBER, 2023
DRAWN BY: UMK	DATE: OCTOBER, 2023
CHECKED BY: SJZ	DATE: OCTOBER, 2023
DRAWING NO.:	DATE:
RECOMMENDED FOR APPROVAL	
Chief, Design Section	Date
APPROVED	
Chief, Division of Transportation Engineering	Date

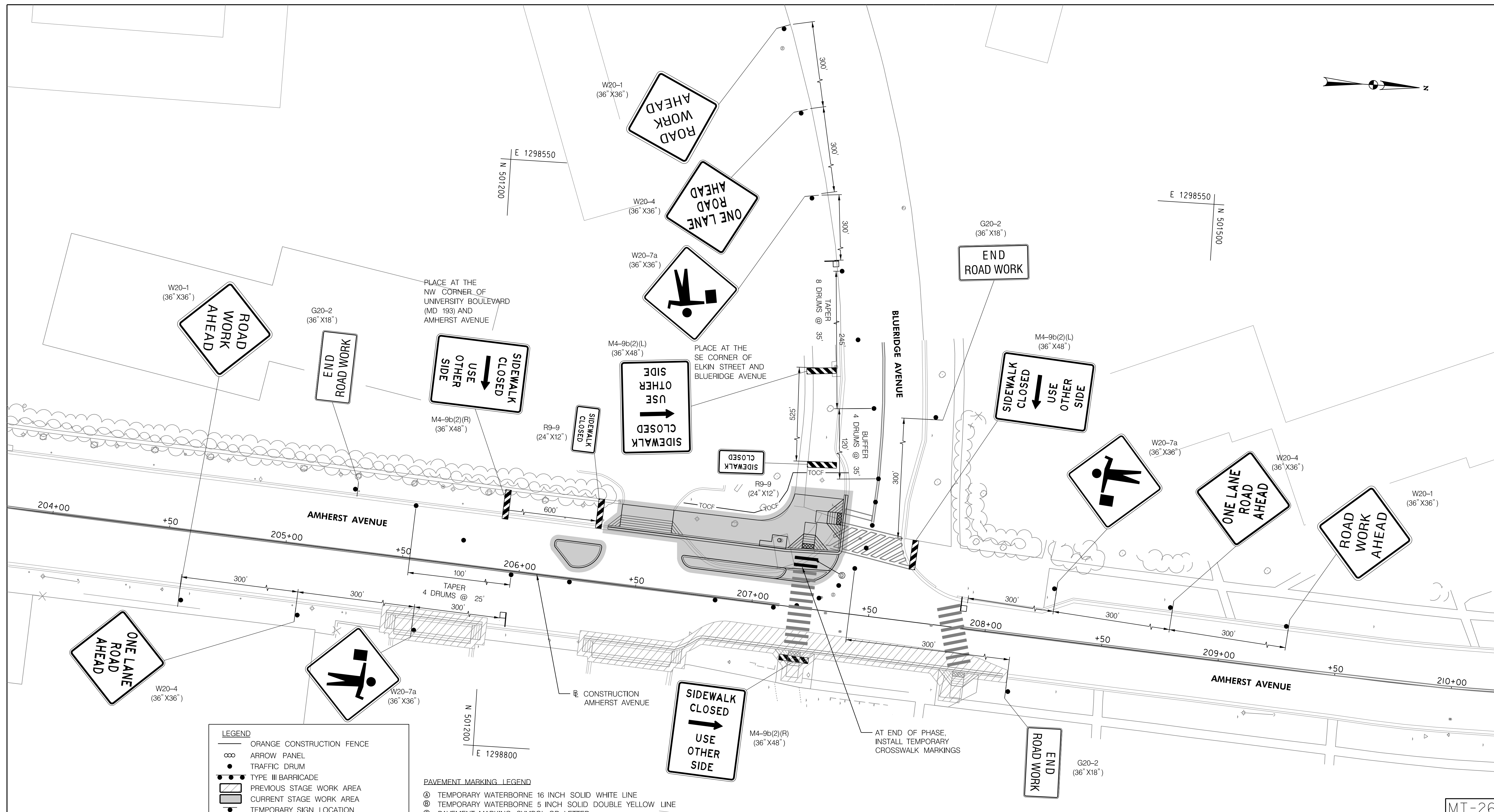
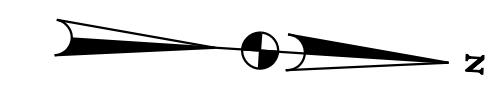
DEPARTMENT OF TRANSPORTATION
 DIVISION OF TRANSPORTATION ENGINEERING
 MONTGOMERY COUNTY, MARYLAND

AMHERST AVE CYCLE TRACK
 PHASE 5A
 MAINTENANCE OF TRAFFIC

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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MT-25

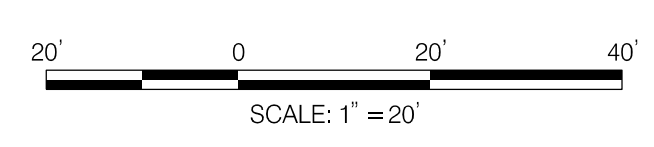


LEGEND

- ORANGE CONSTRUCTION FENCE
- ARROW PANEL
- TRAFFIC DRUM
- TYPE III BARRICADE
- PREVIOUS STAGE WORK AREA
- CURRENT STAGE WORK AREA
- TEMPORARY SIGN LOCATION
- TEMPORARY WATER FILLED BARRIER
- TEMPORARY FLAGGER

PAVEMENT MARKING LEGEND

- TEMPORARY WATERBORNE 16 INCH SOLID WHITE LINE
- TEMPORARY WATERBORNE 5 INCH SOLID DOUBLE YELLOW LINE
- PAVEMENT MARKING SYMBOL OR LETTER



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Chief, Design Section	Date
APPROVED	
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DEPARTMENT OF TRANSPORTATION
DIVISION OF TRANSPORTATION ENGINEERING
MONTGOMERY COUNTY, MARYLAND

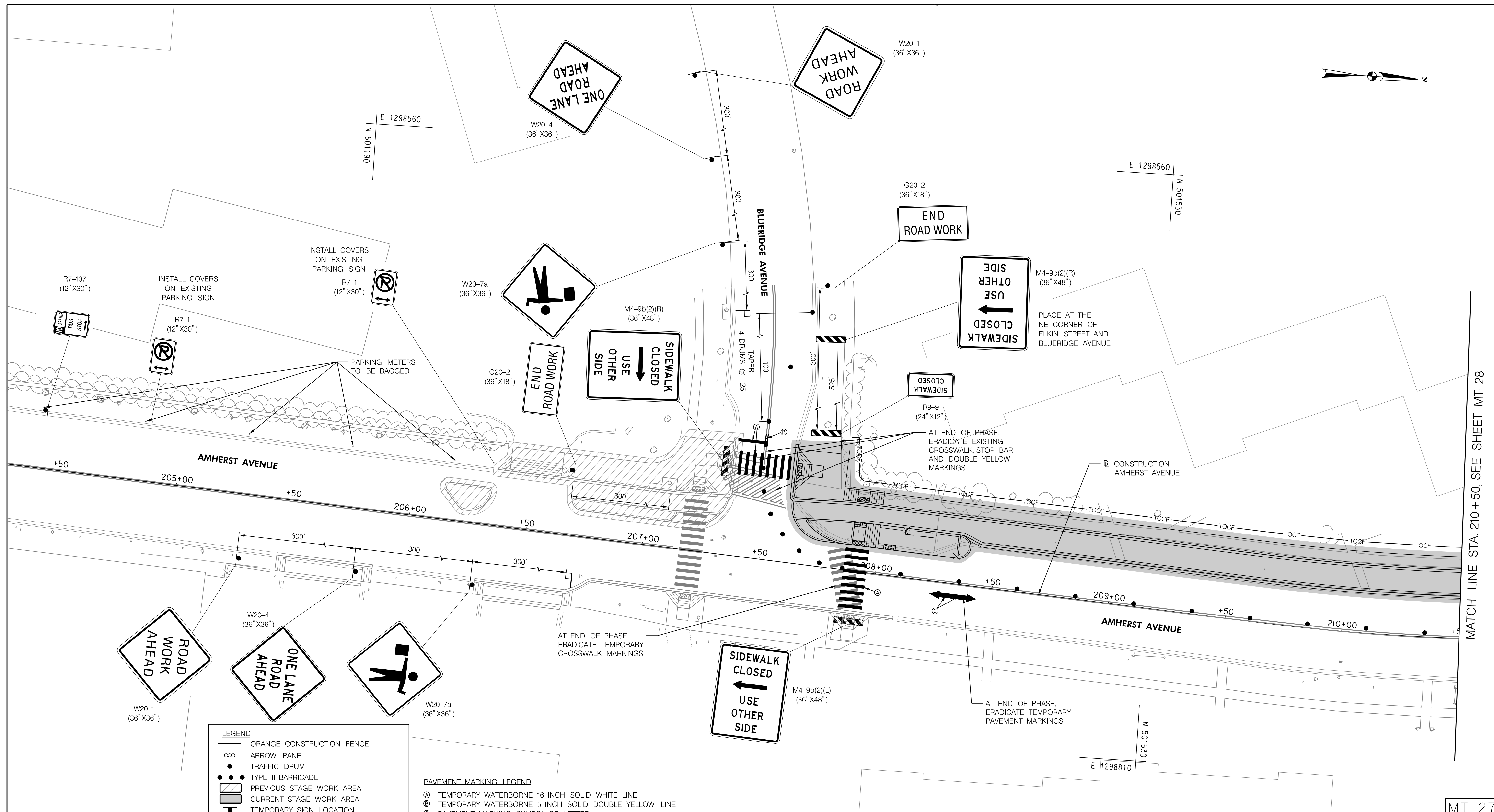
AMHERST AVE CYCLE TRACK
 PHASE 5B
 MAINTENANCE OF TRAFFIC

SCALE: 1"=20' SHEET 167 of 208

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10/9/2023 U:\202621314\700 CADD\700 Sheet\pMT-P502_AmherstAve.dgn

10/9/2023
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MATCH LINE STA. 210+50, SEE SHEET MT-28

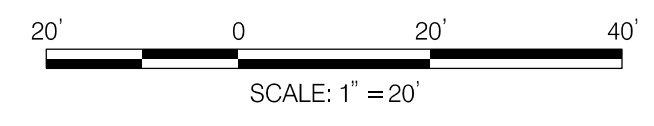
MT-27

LEGEND

- ORANGE CONSTRUCTION FENCE
- ∞ ARROW PANEL
- TRAFFIC DRUM
- TYPE III BARRICADE
- ▨ PREVIOUS STAGE WORK AREA
- ▩ CURRENT STAGE WORK AREA
- TEMPORARY SIGN LOCATION
- ▬ TEMPORARY WATER FILLED BARRIER
- TEMPORARY FLAGGER

PAVEMENT MARKING LEGEND

- Ⓐ TEMPORARY WATERBORNE 16 INCH SOLID WHITE LINE
- Ⓑ TEMPORARY WATERBORNE 5 INCH SOLID DOUBLE YELLOW LINE
- Ⓒ PAVEMENT MARKING SYMBOL OR LETTER



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APPROVED	
Chief, Division of Transportation Engineering	Date

DEPARTMENT OF TRANSPORTATION
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MONTGOMERY COUNTY, MARYLAND

AMHERST AVE CYCLE TRACK
 PHASE 5C
 MAINTENANCE OF TRAFFIC

SCALE: 1"=20' SHEET 168 of 208

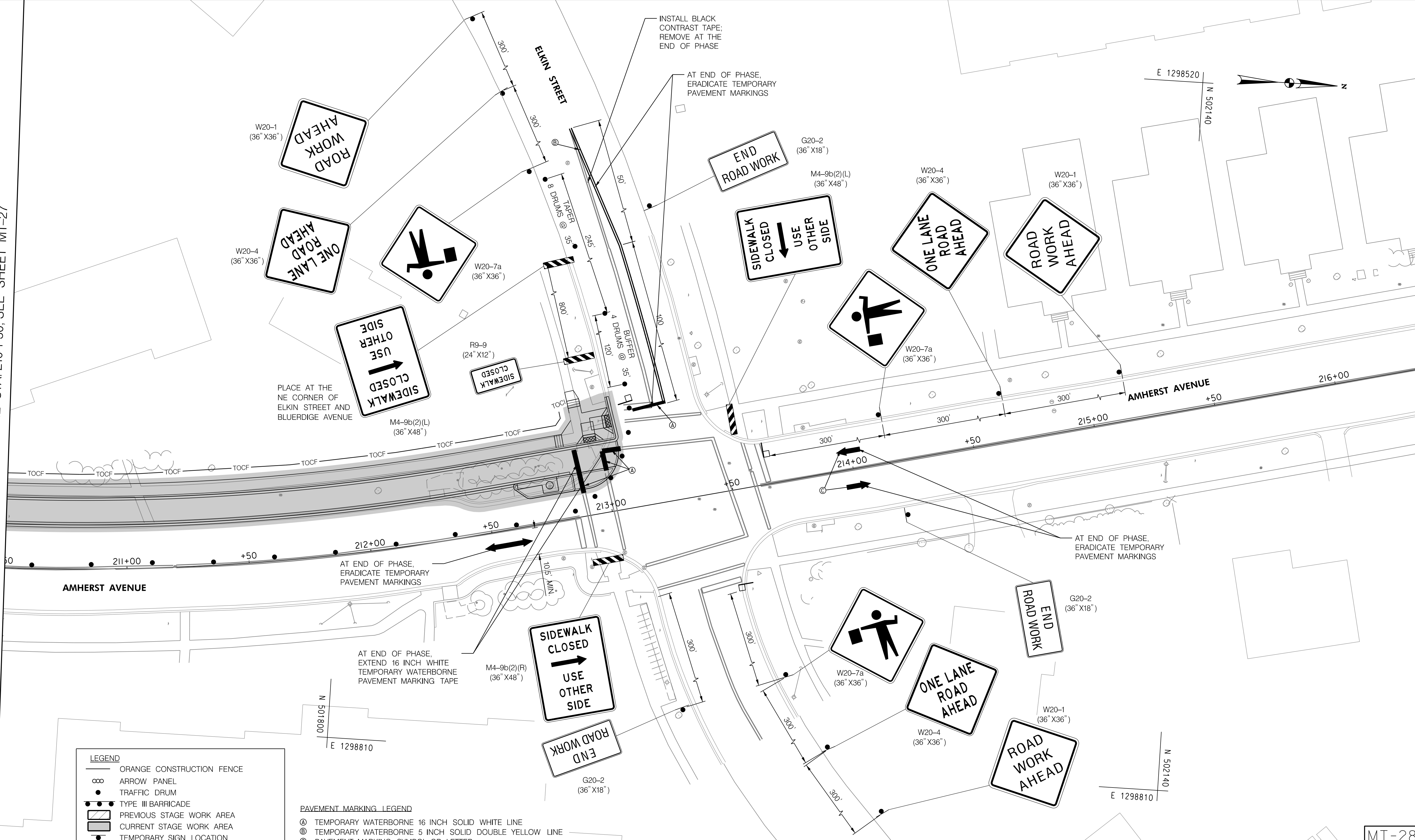
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BIPPA
 Bicycle and Pedestrian Priority Areas

PROFESSIONAL CERTIFICATION:
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MATCH LINE STA. 210+50, SEE SHEET MT-27

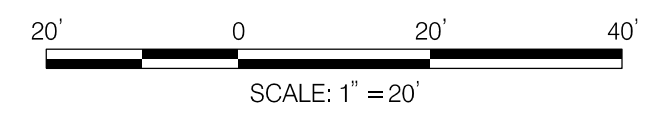


LEGEND

- ORANGE CONSTRUCTION FENCE
- ∞ ARROW PANEL
- TRAFFIC DRUM
- TYPE III BARRICADE
- ▨ PREVIOUS STAGE WORK AREA
- ▩ CURRENT STAGE WORK AREA
- TEMPORARY SIGN LOCATION
- ▬ TEMPORARY WATER FILLED BARRIER
- TEMPORARY FLAGGER

PAVEMENT MARKING LEGEND

- Ⓐ TEMPORARY WATERBORNE 16 INCH SOLID WHITE LINE
- Ⓑ TEMPORARY WATERBORNE 5 INCH SOLID DOUBLE YELLOW LINE
- Ⓒ PAVEMENT MARKING SYMBOL OR LETTER



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APPROVED	
Chief, Division of Transportation Engineering	Date

DEPARTMENT OF TRANSPORTATION
 DIVISION OF TRANSPORTATION ENGINEERING
 MONTGOMERY COUNTY, MARYLAND

AMHERST AVE CYCLE TRACK
 PHASE 5C
 MAINTENANCE OF TRAFFIC

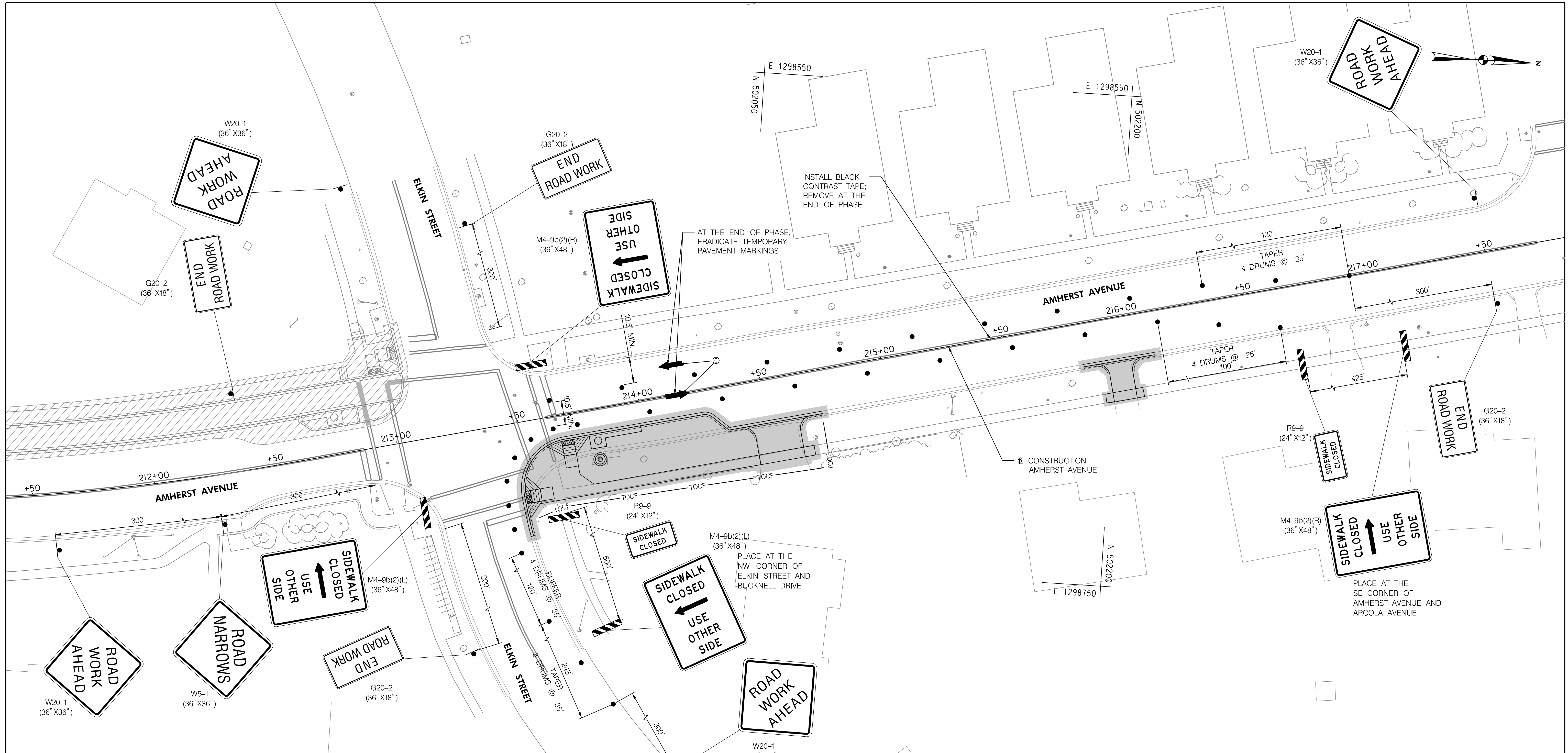


PROFESSIONAL CERTIFICATION:
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MT-28

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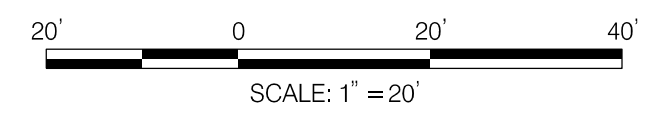


LEGEND

- ORANGE CONSTRUCTION FENCE
- ∞ ARROW PANEL
- TRAFFIC DRUM
- ▬ TYPE III BARRICADE
- ▨ PREVIOUS STAGE WORK AREA
- ▩ CURRENT STAGE WORK AREA
- TEMPORARY SIGN LOCATION
- ▬ TEMPORARY WATER FILLED BARRIER
- TEMPORARY FLAGGER

PAVEMENT MARKING LEGEND

- Ⓐ TEMPORARY WATERBORNE 16 INCH SOLID WHITE LINE
- Ⓑ TEMPORARY WATERBORNE 5 INCH SOLID DOUBLE YELLOW LINE
- Ⓒ PAVEMENT MARKING SYMBOL OR LETTER



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APPROVED	
Chief, Division of Transportation Engineering _____	Date _____

DEPARTMENT OF TRANSPORTATION
DIVISION OF TRANSPORTATION ENGINEERING
MONTGOMERY COUNTY, MARYLAND

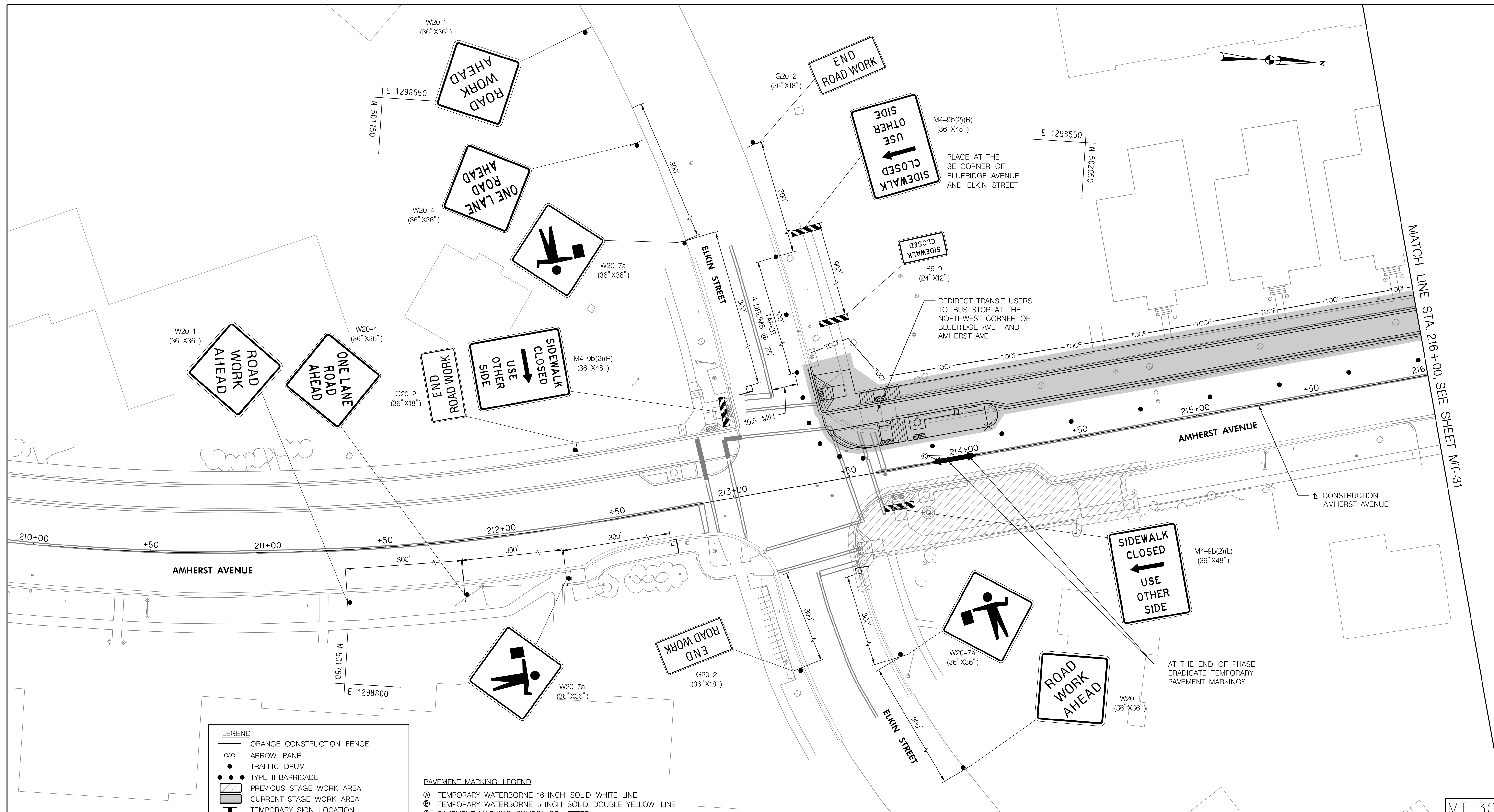
AMHERST AVE CYCLE TRACK
 PHASE 6A
 MAINTENANCE OF TRAFFIC

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MT-29

10/9/2023
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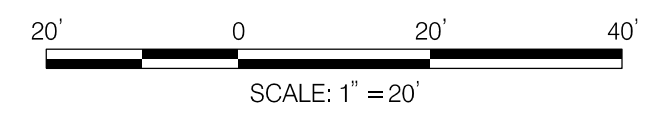
MATCH LINE STA. 216+00. SEE SHEET MT-31

LEGEND

- ORANGE CONSTRUCTION FENCE
- ARROW PANEL
- TRAFFIC DRUM
- TYPE III BARRICADE
- PREVIOUS STAGE WORK AREA
- CURRENT STAGE WORK AREA
- TEMPORARY SIGN LOCATION
- TEMPORARY WATER FILLED BARRIER
- TEMPORARY FLAGGER

PAVEMENT MARKING LEGEND

- TEMPORARY WATERBORNE 16 INCH SOLID WHITE LINE
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DEPARTMENT OF TRANSPORTATION
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MONTGOMERY COUNTY, MARYLAND

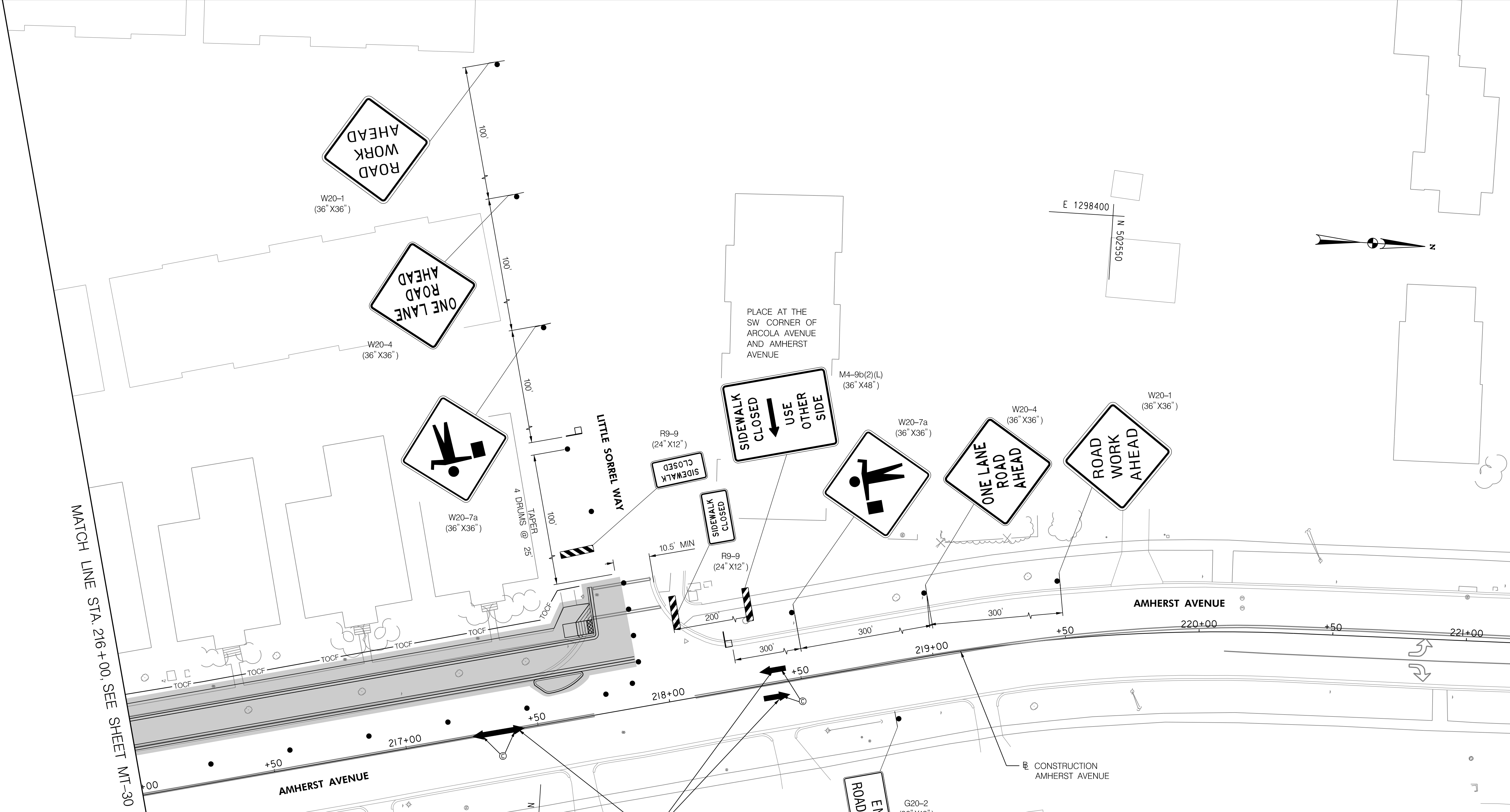
AMHERST AVE CYCLE TRACK
 PHASE 6B
 MAINTENANCE OF TRAFFIC

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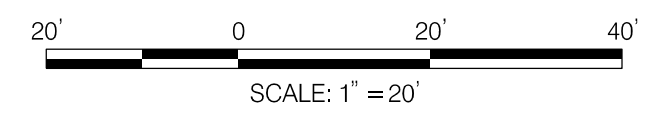


LEGEND

- ORANGE CONSTRUCTION FENCE
- ARROW PANEL
- TRAFFIC DRUM
- TYPE III BARRICADE
- PREVIOUS STAGE WORK AREA
- CURRENT STAGE WORK AREA
- TEMPORARY SIGN LOCATION
- TEMPORARY WATER FILLED BARRIER
- TEMPORARY FLAGGER

PAVEMENT MARKING LEGEND

- TEMPORARY WATERBORNE 16 INCH SOLID WHITE LINE
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APPROVED	
Chief, Division of Transportation Engineering _____	Date _____

DEPARTMENT OF TRANSPORTATION
DIVISION OF TRANSPORTATION ENGINEERING
MONTGOMERY COUNTY, MARYLAND

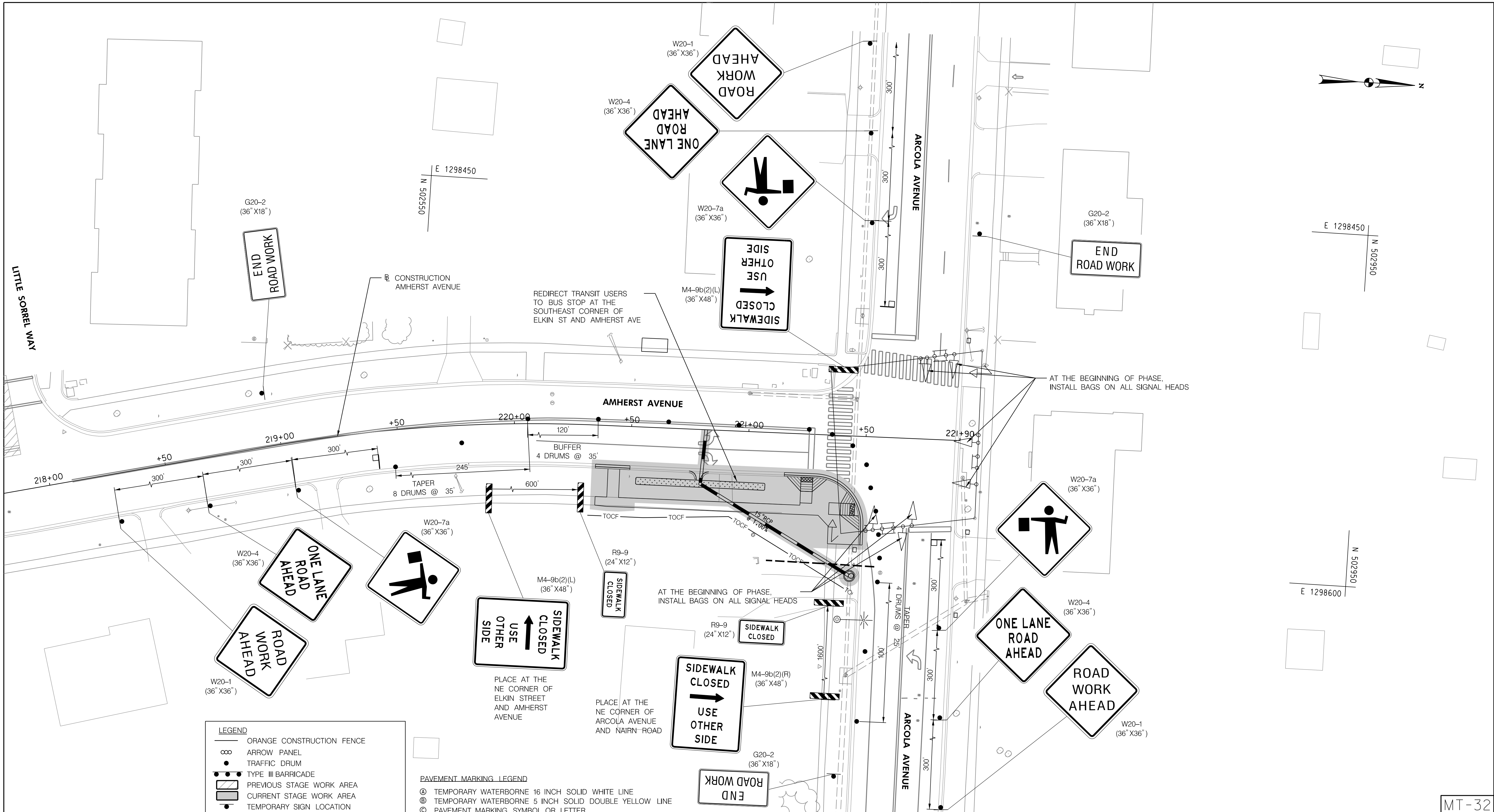
AMHERST AVE CYCLE TRACK
 PHASE 6B
 MAINTENANCE OF TRAFFIC



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 UA:2026213141700 CADD\700 Sheet\pMT-P701_AmherstAve.dgn

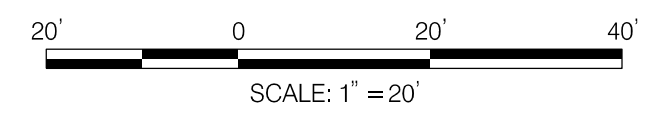


LEGEND

- ORANGE CONSTRUCTION FENCE
- ∞ ARROW PANEL
- TRAFFIC DRUM
- ▬ TYPE III BARRICADE
- ▨ PREVIOUS STAGE WORK AREA
- ▩ CURRENT STAGE WORK AREA
- TEMPORARY SIGN LOCATION
- ▬ TEMPORARY WATER FILLED BARRIER
- TEMPORARY FLAGGER

PAVEMENT MARKING LEGEND

- Ⓐ TEMPORARY WATERBORNE 16 INCH SOLID WHITE LINE
- Ⓑ TEMPORARY WATERBORNE 5 INCH SOLID DOUBLE YELLOW LINE
- Ⓒ PAVEMENT MARKING SYMBOL OR LETTER



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DEPARTMENT OF TRANSPORTATION
 DIVISION OF TRANSPORTATION ENGINEERING
 MONTGOMERY COUNTY, MARYLAND

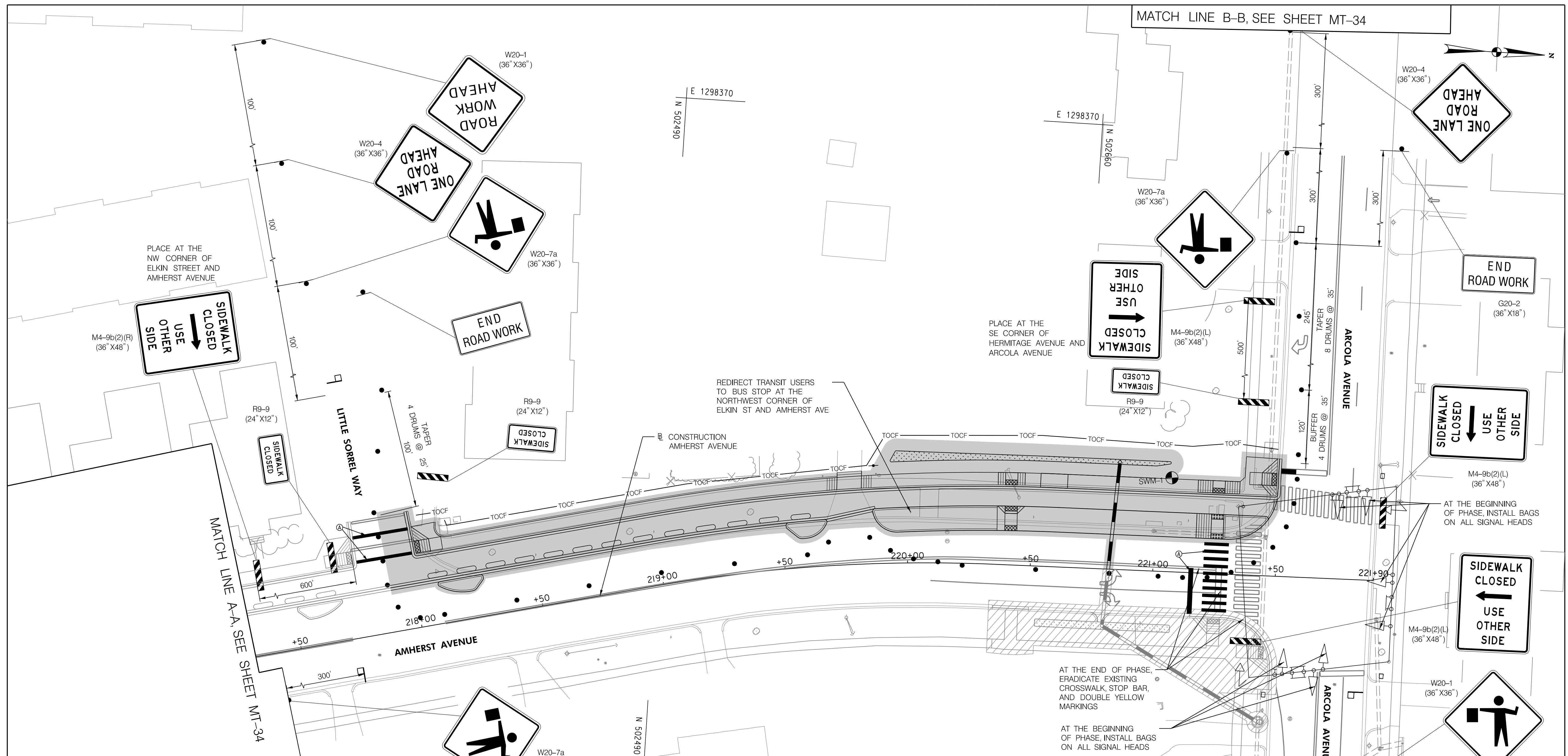
AMHERST AVE CYCLE TRACK
 PHASE 7A
 MAINTENANCE OF TRAFFIC

SCALE: 1"=20' SHEET 173 of 208

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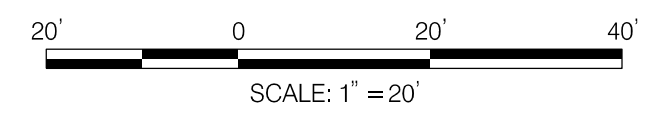
MT-32

10/9/2023
 U:\202621314\700 CADD\700 Sheet\pMT-P702_AmherstAve.dgn



- LEGEND**
- ORANGE CONSTRUCTION FENCE
 - ARROW PANEL
 - TRAFFIC DRUM
 - TYPE III BARRICADE
 - ▨ PREVIOUS STAGE WORK AREA
 - ▩ CURRENT STAGE WORK AREA
 - TEMPORARY SIGN LOCATION
 - TEMPORARY WATER FILLED BARRIER
 - TEMPORARY FLAGGER

- PAVEMENT MARKING LEGEND**
- Ⓐ TEMPORARY WATERBORNE 16 INCH SOLID WHITE LINE
 - Ⓑ TEMPORARY WATERBORNE 5 INCH SOLID DOUBLE YELLOW LINE
 - Ⓒ PAVEMENT MARKING SYMBOL OR LETTER



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 CHECKED BY: SJZ DATE: OCTOBER, 2023
 DRAWING NO.: DATE:

RECOMMENDED FOR APPROVAL

Chief, Design Section _____ Date _____

APPROVED

Chief, Division of Transportation Engineering _____ Date _____

DEPARTMENT OF TRANSPORTATION
 DIVISION OF TRANSPORTATION ENGINEERING
 MONTGOMERY COUNTY, MARYLAND

AMHERST AVE CYCLE TRACK
 PHASE 7B
 MAINTENANCE OF TRAFFIC

SCALE: 1"=20' SHEET 174 of 208

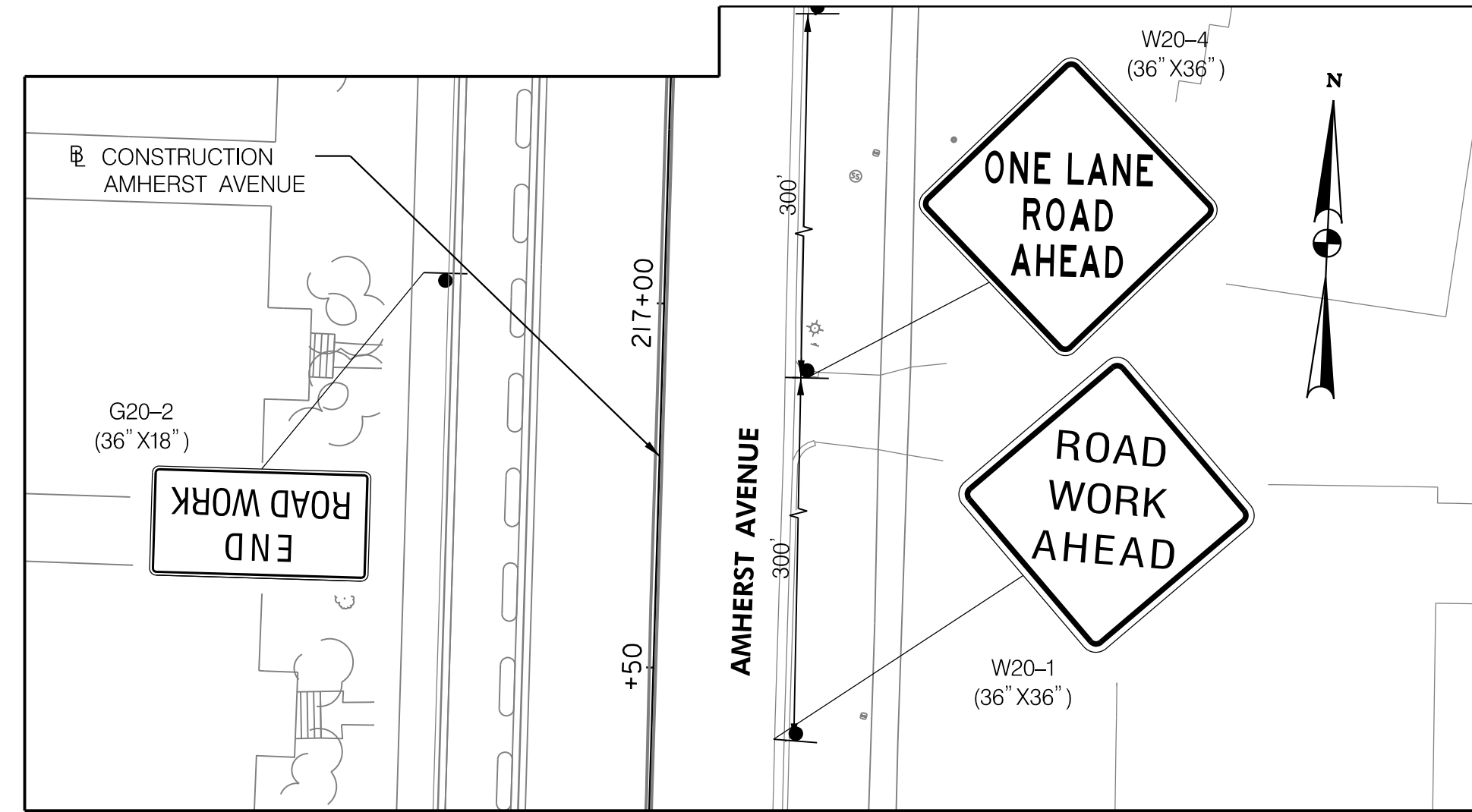
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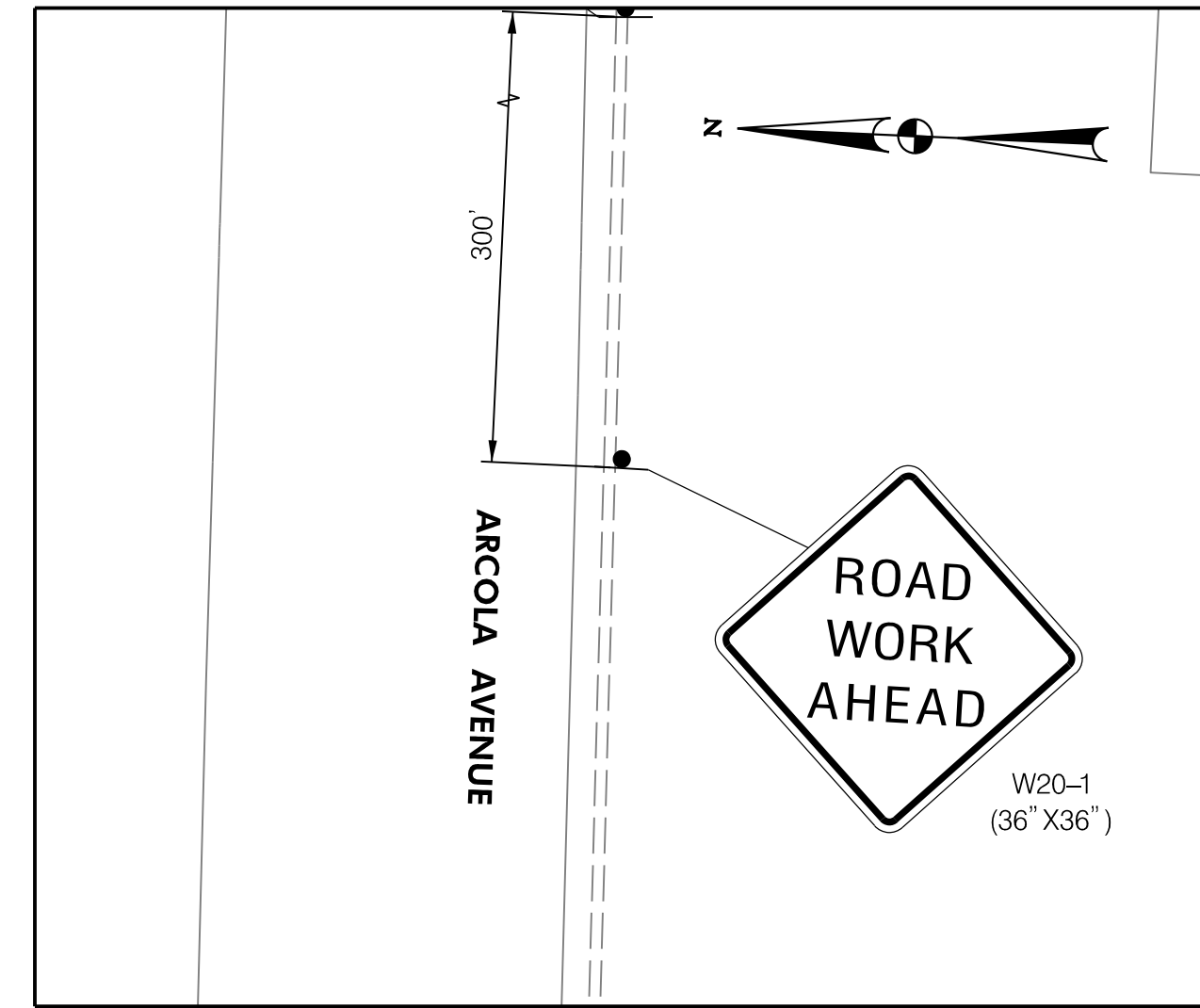
MT-33

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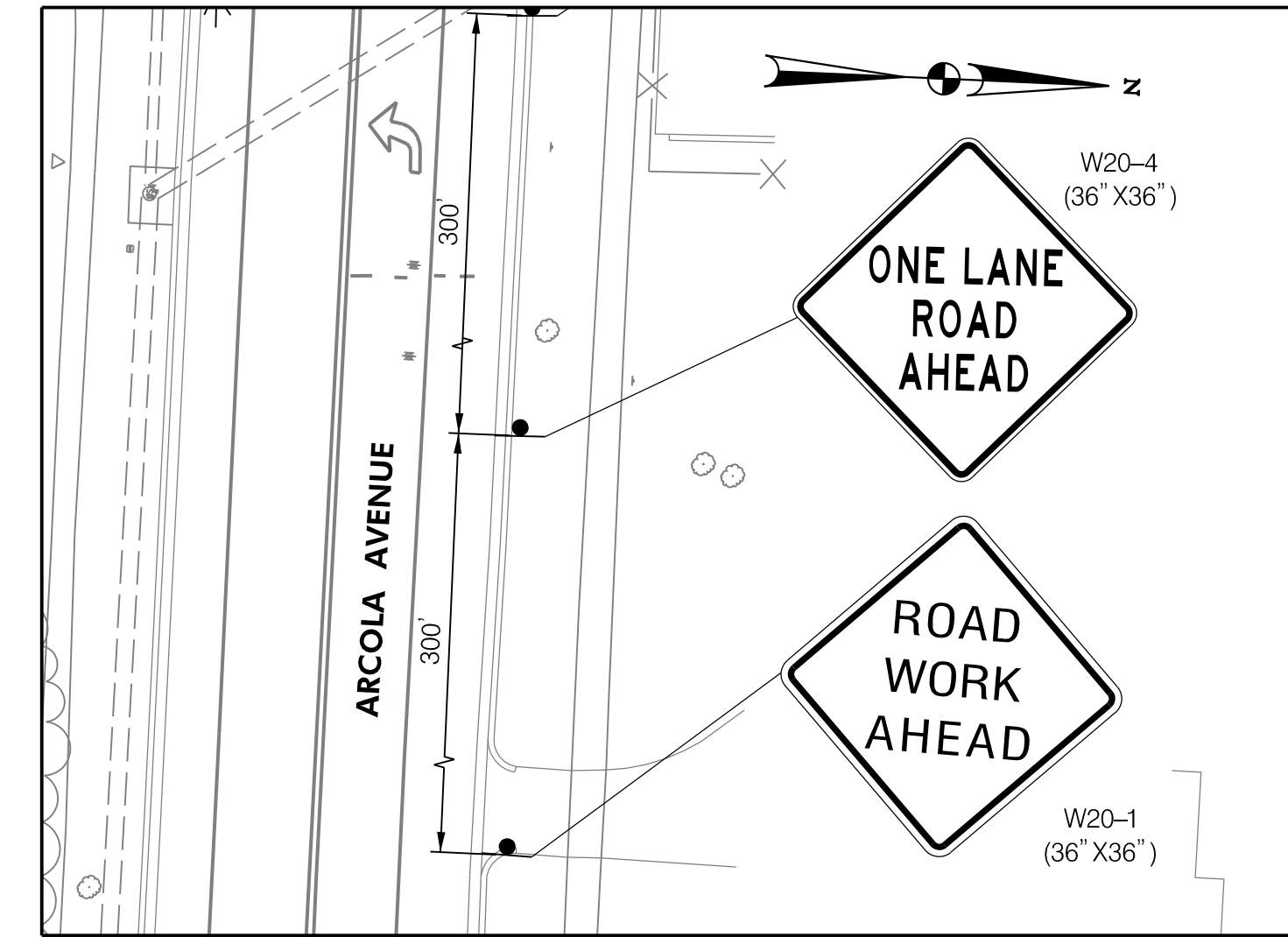
MATCH LINE A-A, SEE SHEET MT-33



MATCH LINE B-B, SEE SHEET MT-33



MATCH LINE C-C, SEE SHEET MT-33

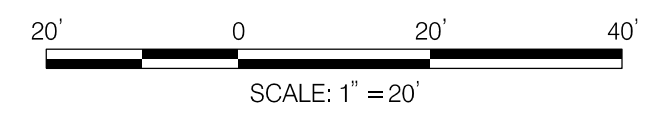


LEGEND

- ORANGE CONSTRUCTION FENCE
- ARROW PANEL
- TRAFFIC DRUM
- TYPE III BARRICADE
- PREVIOUS STAGE WORK AREA
- CURRENT STAGE WORK AREA
- TEMPORARY SIGN LOCATION
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- TEMPORARY FLAGGER

PAVEMENT MARKING LEGEND

- Ⓐ TEMPORARY WATERBORNE 16 INCH SOLID WHITE LINE
- Ⓑ TEMPORARY WATERBORNE 5 INCH SOLID DOUBLE YELLOW LINE
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DEPARTMENT OF TRANSPORTATION
DIVISION OF TRANSPORTATION ENGINEERING
MONTGOMERY COUNTY, MARYLAND

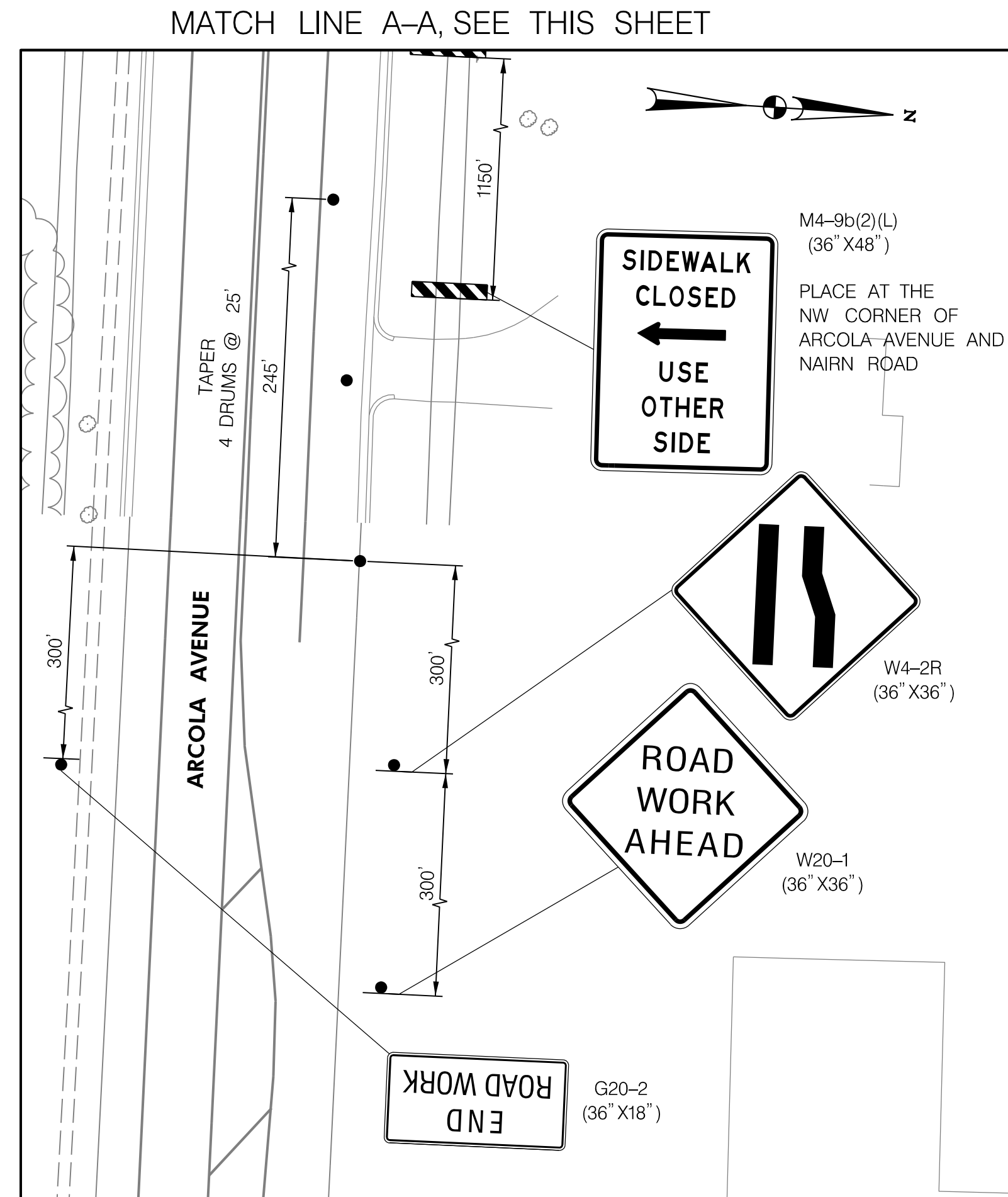
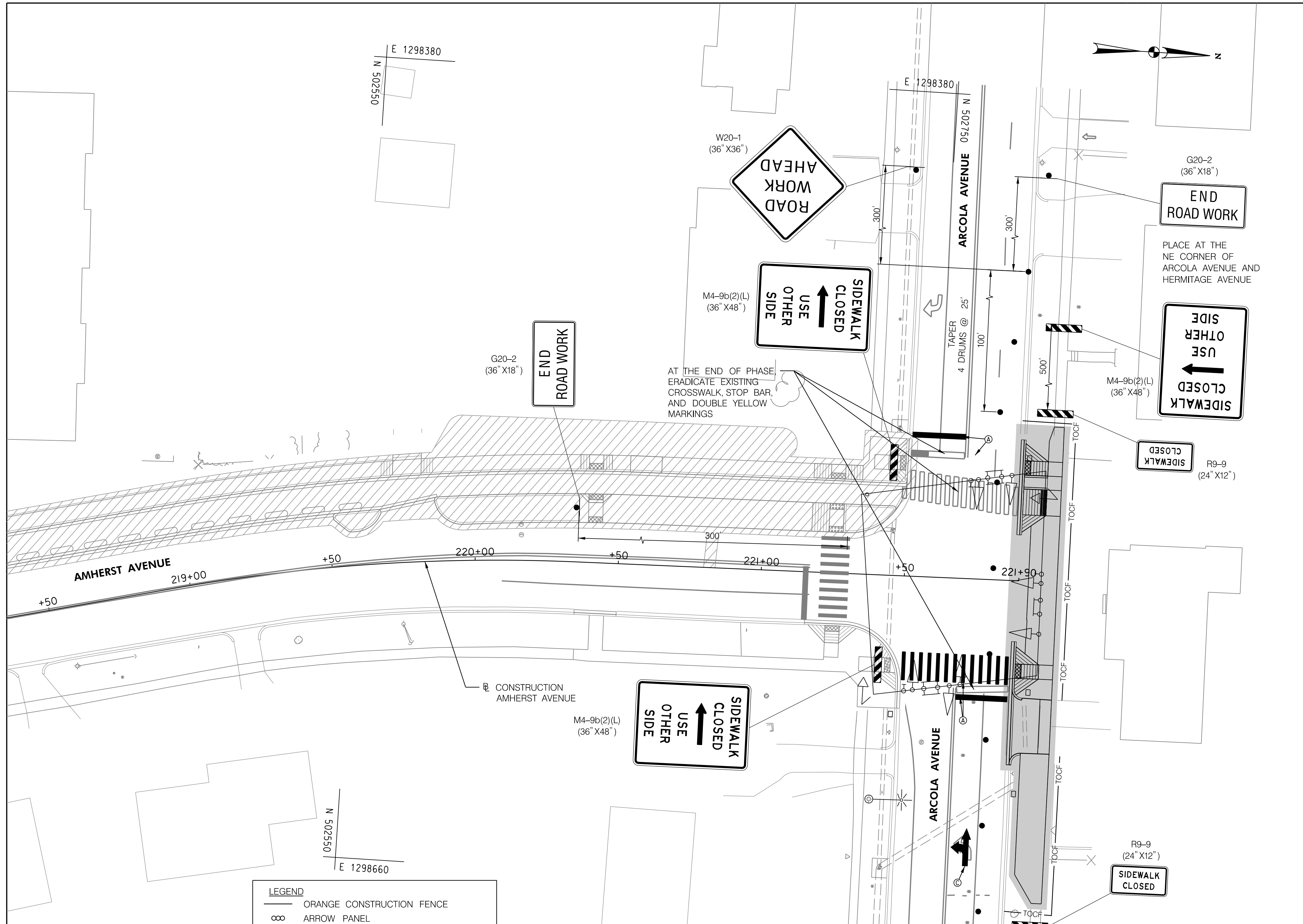
AMHERST AVE CYCLE TRACK
 PHASE 7B
 MAINTENANCE OF TRAFFIC

MT-34

PROFESSIONAL CERTIFICATION:
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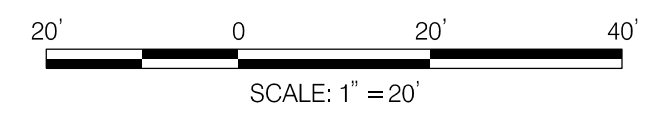


LEGEND

- ORANGE CONSTRUCTION FENCE
- ∞ ARROW PANEL
- TRAFFIC DRUM
- TYPE III BARRICADE
- ▨ PREVIOUS STAGE WORK AREA
- ▩ CURRENT STAGE WORK AREA
- TEMPORARY SIGN LOCATION
- ▤ TEMPORARY WATER FILLED BARRIER
- TEMPORARY FLAGGER

PAVEMENT MARKING LEGEND

- Ⓐ TEMPORARY WATERBORNE 16 INCH SOLID WHITE LINE
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DEPARTMENT OF TRANSPORTATION
 DIVISION OF TRANSPORTATION ENGINEERING
 MONTGOMERY COUNTY, MARYLAND

AMHERST AVE CYCLE TRACK
 PHASE 7C
 MAINTENANCE OF TRAFFIC



PROFESSIONAL CERTIFICATION:
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 LICENSE NO: _____ EXPIRATION DATE: _____

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 Baltimore, MD 21286
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MT-35

AB CONSULTANTS INC. UTILITY TEST HOLE REPORT

REPORT PREPARED BY: JACOB P DEANER
 FOREMAN: NICK HEALEY
 JURISDICTION: MONTGOMERY COUNTY
 LOCATION: UNIVERSITY BOULEVARD (MD 193)
 20 FEET SOUTHEAST OF AMHERST AVENUE
 WHEATON, MARYLAND 20902

CLIENT PROJECT • 1111495
 AB PROJECT • 2021474-14
 SHEET • 07 OF 11 PLAN SCALE 1"=20'
 TEST HOLE NO: TH-1 DATE DUG: 9/8/23
 ANTICIPATED UTILITY: GAS
 FOUND UTILITY: OWNER/SIZE/MATERIAL/TYPE
 WASHINGTON GAS 8" W/S GAS

ELEV. SURVEY MARKER
 422.69'
 COVER (TOP)
 3.81'
 ELEV. (TOP)
 418.88'
 COVER (BOTTOM)
 ELEV. (BOTTOM)

TYPE OF MARKER SET: HUB
 AT EXISTING GRADE OF GRASS

SURVEY PARTY CHIEF: BEN WINSLOW
 TEST HOLE SURVEY INFORMATION
 NORTHING: 500565.9473
 EASTING: 1298668.7600
 HORIZONTAL/VERTICAL CONTROL PROVIDED BY:
 STANTEC
 BENCH MARK: MER107 ELEV. - 424.10'

NOTES: HUB SET OVER CENTER OF UTILITY.
 SIZE NOTED IS THE OUTER DIAMETER OF THE UTILITY.

NAVD 88
 NAD 83(2011)

AB CONSULTANTS, INC.
 1000 TIGHEBURY ROAD
 BALTIMORE, MARYLAND 21244
 TEL: 410-775-2650

AB CONSULTANTS INC. UTILITY TEST HOLE REPORT

REPORT PREPARED BY: JACOB P DEANER
 FOREMAN: NICK HEALEY
 JURISDICTION: MONTGOMERY COUNTY
 LOCATION: UNIVERSITY BOULEVARD (MD 193)
 40 FEET SOUTHEAST OF AMHERST AVENUE
 WHEATON, MARYLAND 20902

CLIENT PROJECT • 1111495
 AB PROJECT • 2021474-14
 SHEET • 07 OF 11 PLAN SCALE 1"=20'
 TEST HOLE NO: TH-1A DATE DUG: 9/8/23
 ANTICIPATED UTILITY: WATER
 FOUND UTILITY: OWNER/SIZE/MATERIAL/TYPE
 PRIVATE 1" PLASTIC WATER

ELEV. SURVEY MARKER
 422.60'
 COVER (TOP)
 0.93'
 ELEV. (TOP)
 421.67'
 COVER (BOTTOM)
 ELEV. (BOTTOM)

TYPE OF MARKER SET: HUB
 AT EXISTING GRADE OF GRASS

SURVEY PARTY CHIEF: BEN WINSLOW
 TEST HOLE SURVEY INFORMATION
 NORTHING: 500566.8649
 EASTING: 1298668.9055
 HORIZONTAL/VERTICAL CONTROL PROVIDED BY:
 STANTEC
 BENCH MARK: MER107 ELEV. - 424.10'

NOTES: HUB SET OVER CENTER OF UTILITY.
 SIZE NOTED IS THE OUTER DIAMETER OF THE UTILITY.

NAVD 88
 NAD 83(2011)

AB CONSULTANTS, INC.
 1000 TIGHEBURY ROAD
 BALTIMORE, MARYLAND 21244
 TEL: 410-775-2650

AB CONSULTANTS INC. UTILITY TEST HOLE REPORT

REPORT PREPARED BY: JACOB P DEANER
 FOREMAN: NICK HEALEY
 JURISDICTION: MONTGOMERY COUNTY
 LOCATION: UNIVERSITY BOULEVARD (MD 193)
 40 FEET NORTHWEST OF AMHERST AVENUE
 WHEATON, MARYLAND 20902

CLIENT PROJECT • 1111495
 AB PROJECT • 2021474-14
 SHEET • 07 OF 11 PLAN SCALE 1"=20'
 TEST HOLE NO: TH-2 DATE DUG: 9/8/23
 ANTICIPATED UTILITY: GAS
 FOUND UTILITY: OWNER/SIZE/MATERIAL/TYPE
 WASHINGTON GAS 8" W/S GAS

ELEV. SURVEY MARKER
 427.73'
 COVER (TOP)
 4.36'
 ELEV. (TOP)
 423.37'
 COVER (BOTTOM)
 ELEV. (BOTTOM)

TYPE OF MARKER SET: X-CUT
 AT EXISTING GRADE OF PAVEMENT

SURVEY PARTY CHIEF: BEN WINSLOW
 TEST HOLE SURVEY INFORMATION
 NORTHING: 500598.0776
 EASTING: 1298550.3795
 HORIZONTAL/VERTICAL CONTROL PROVIDED BY:
 STANTEC
 BENCH MARK: MER107 ELEV. - 424.10'

NOTES: X-CUT SET OVER CENTER OF UTILITY.
 SIZE NOTED IS THE OUTER DIAMETER OF THE UTILITY.

NAVD 88
 NAD 83(2011)

AB CONSULTANTS, INC.
 1000 TIGHEBURY ROAD
 BALTIMORE, MARYLAND 21244
 TEL: 410-775-2650

AB CONSULTANTS INC. UTILITY TEST HOLE REPORT

REPORT PREPARED BY: JACOB P DEANER
 FOREMAN: NICK HEALEY
 JURISDICTION: MONTGOMERY COUNTY
 LOCATION: AMHERST AVENUE
 40 FEET NORTHEAST OF
 UNIVERSITY BOULEVARD (MD193)
 WHEATON, MARYLAND 20902

CLIENT PROJECT • 1111495
 AB PROJECT • 2021474-14
 SHEET • 07 OF 11 PLAN SCALE 1"=20'
 TEST HOLE NO: TH-3 DATE DUG: 9/8/23
 ANTICIPATED UTILITY: WATER
 FOUND UTILITY: OWNER/SIZE/MATERIAL/TYPE
 SEE NOTES

ELEV. SURVEY MARKER
 TYPE OF MARKER SET: NONE
 AT EXISTING GRADE OF: ASPHALT

SURVEY PARTY CHIEF: BEN WINSLOW
 TEST HOLE SURVEY INFORMATION
 NORTHING: 500708.5214
 EASTING: 1298631.0860
 HORIZONTAL/VERTICAL CONTROL PROVIDED BY:
 STANTEC
 BENCH MARK: ELEV. -

NOTES: EXCAVATED 9.72 FEET. NO UTILITY FOUND. NO SIGNAL DETECTED.

NAVD 88
 NAD 83(2011)

AB CONSULTANTS, INC.
 1000 TIGHEBURY ROAD
 BALTIMORE, MARYLAND 21244
 TEL: 410-775-2650

AB CONSULTANTS INC. UTILITY TEST HOLE REPORT

REPORT PREPARED BY: JACOB P DEANER
 FOREMAN: NICK HEALEY
 JURISDICTION: MONTGOMERY COUNTY
 LOCATION: AMHERST AVENUE
 65 FEET SOUTH OF ARCOLA AVENUE
 WHEATON, MARYLAND 20902

CLIENT PROJECT • 1111495
 AB PROJECT • 2021474-14
 SHEET • 11 OF 11 PLAN SCALE 1"=20'
 TEST HOLE NO: TH-4 DATE DUG: 9/12/23
 ANTICIPATED UTILITY: ELECTRIC
 FOUND UTILITY: OWNER/SIZE/MATERIAL/TYPE
 PEPCO UNKNOWN H & W CONC. ELEC. DUCT
 SEE NOTES

ELEV. SURVEY MARKER
 417.90'
 COVER (TOP)
 4.76'
 ELEV. (TOP)
 413.14'
 COVER (BOTTOM)
 ELEV. (BOTTOM)

TYPE OF MARKER SET: HUB
 AT EXISTING GRADE OF GRASS

SURVEY PARTY CHIEF: BEN WINSLOW
 TEST HOLE SURVEY INFORMATION
 NORTHING: 502666.5939
 EASTING: 1298529.8784
 HORIZONTAL/VERTICAL CONTROL PROVIDED BY:
 STANTEC
 BENCH MARK: MER112 ELEV. - 415.08'

NOTES: HUB PLACED ON WEST EDGE OF CONCRETE DUCT BANK.
 UNABLE TO FULLY EXPOSE DUCT BANK DUE TO WET SOIL. 18" OF DUCT EXPOSED.
 UNABLE TO CONFIRM HEIGHT AND WIDTH OF ROUGH POUR CONCRETE DUCT BANK.

NAVD 88
 NAD 83(2011)

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 BALTIMORE, MARYLAND 21244
 TEL: 410-775-2650

AB CONSULTANTS INC. UTILITY TEST HOLE REPORT

REPORT PREPARED BY: JACOB P DEANER
 FOREMAN: NICK HEALEY
 JURISDICTION: MONTGOMERY COUNTY
 LOCATION: AMHERST AVENUE
 40 FEET SOUTH OF ARCOLA AVENUE
 WHEATON, MARYLAND 20902

CLIENT PROJECT • 1111495
 AB PROJECT • 2021474-14
 SHEET • 11 OF 11 PLAN SCALE 1"=20'
 TEST HOLE NO: TH-5 DATE DUG: 9/12/23
 ANTICIPATED UTILITY: WATER
 FOUND UTILITY: OWNER/SIZE/MATERIAL/TYPE
 WSSC 8" D/I WATER

ELEV. SURVEY MARKER
 418.63'
 COVER (TOP)
 6.08'
 ELEV. (TOP)
 410.57'
 COVER (BOTTOM)
 ELEV. (BOTTOM)

TYPE OF MARKER SET: HUB
 AT EXISTING GRADE OF GRASS

SURVEY PARTY CHIEF: BEN WINSLOW
 TEST HOLE SURVEY INFORMATION
 NORTHING: 502704.9607
 EASTING: 1298585.3227
 HORIZONTAL/VERTICAL CONTROL PROVIDED BY:
 STANTEC
 BENCH MARK: MER112 ELEV. - 415.08'

NOTES: HUB SET OVER CENTER OF UTILITY.
 SIZE NOTED IS THE OUTER DIAMETER OF THE UTILITY.

NAVD 88
 NAD 83(2011)

AB CONSULTANTS, INC.
 1000 TIGHEBURY ROAD
 BALTIMORE, MARYLAND 21244
 TEL: 410-775-2650

TH-01

NO.	REVISION	BY	APP'D	DATE

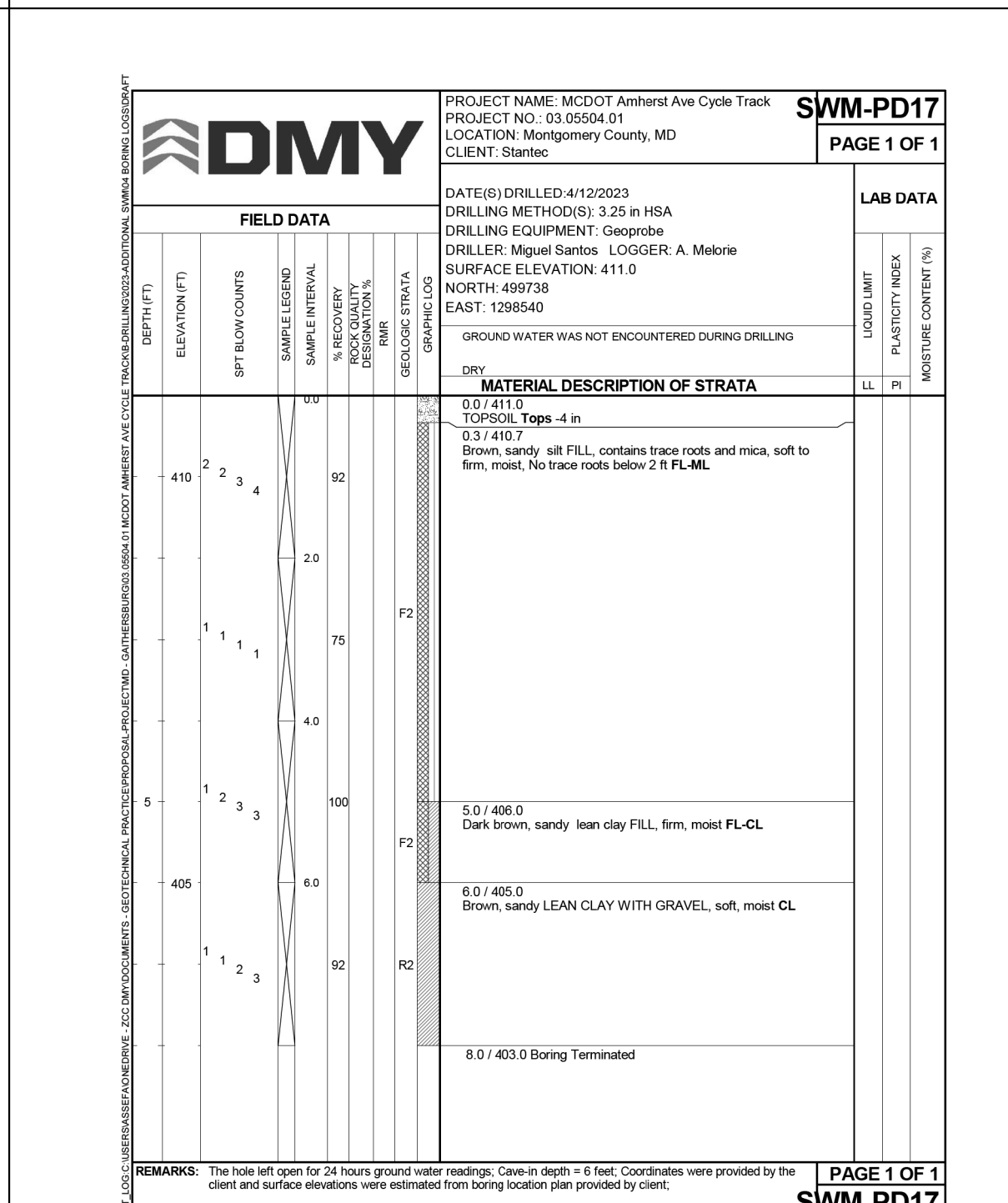
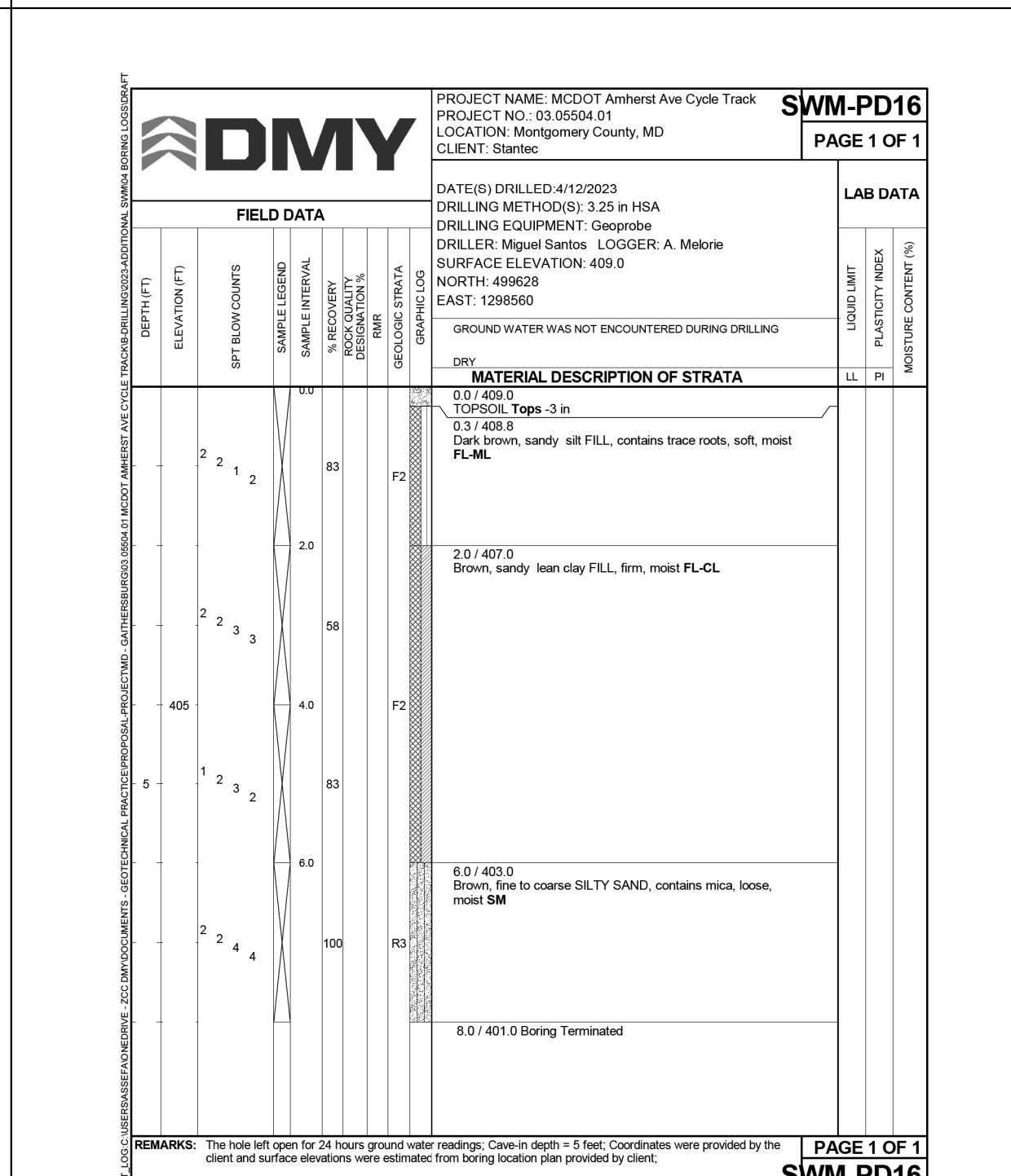
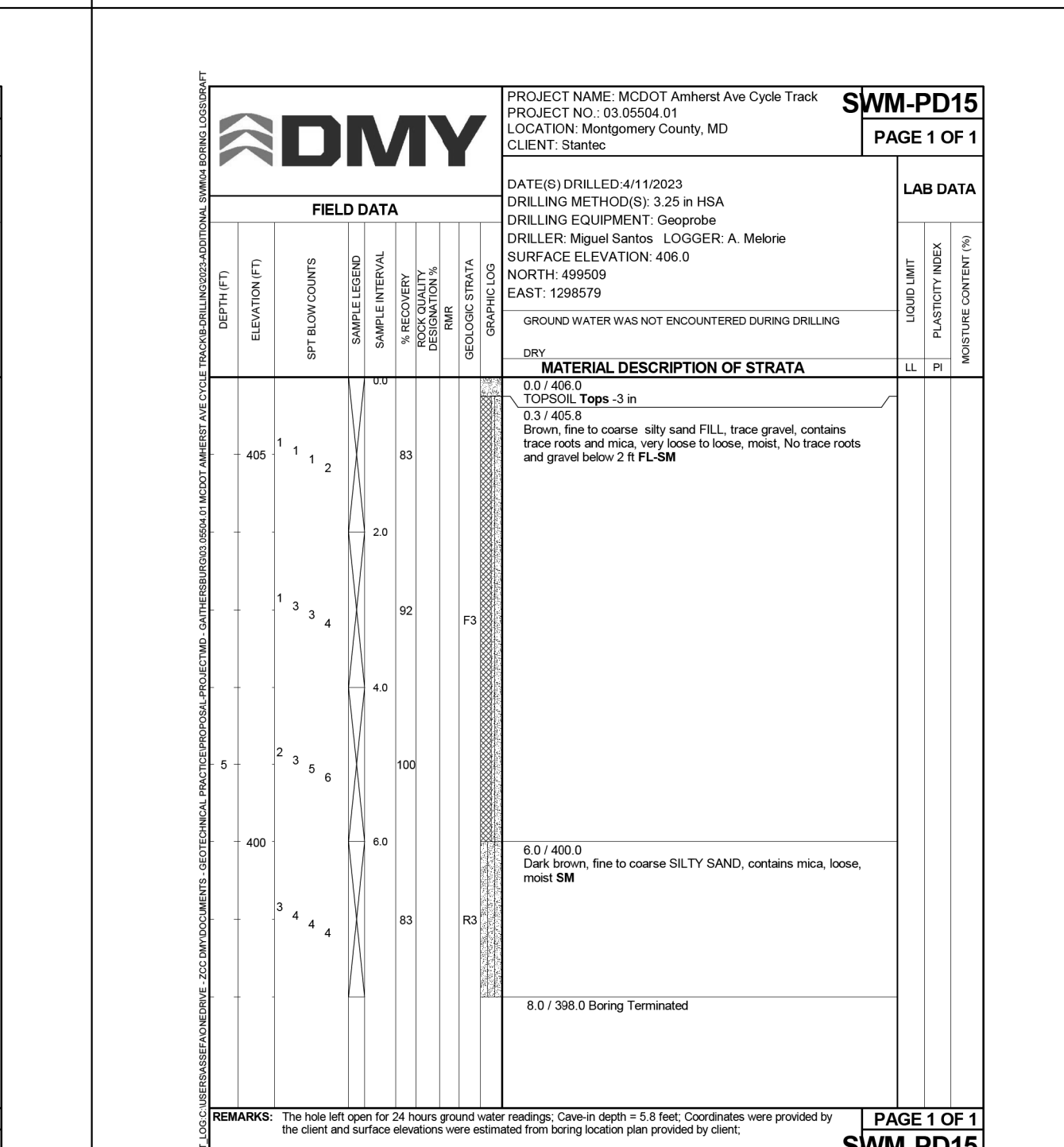
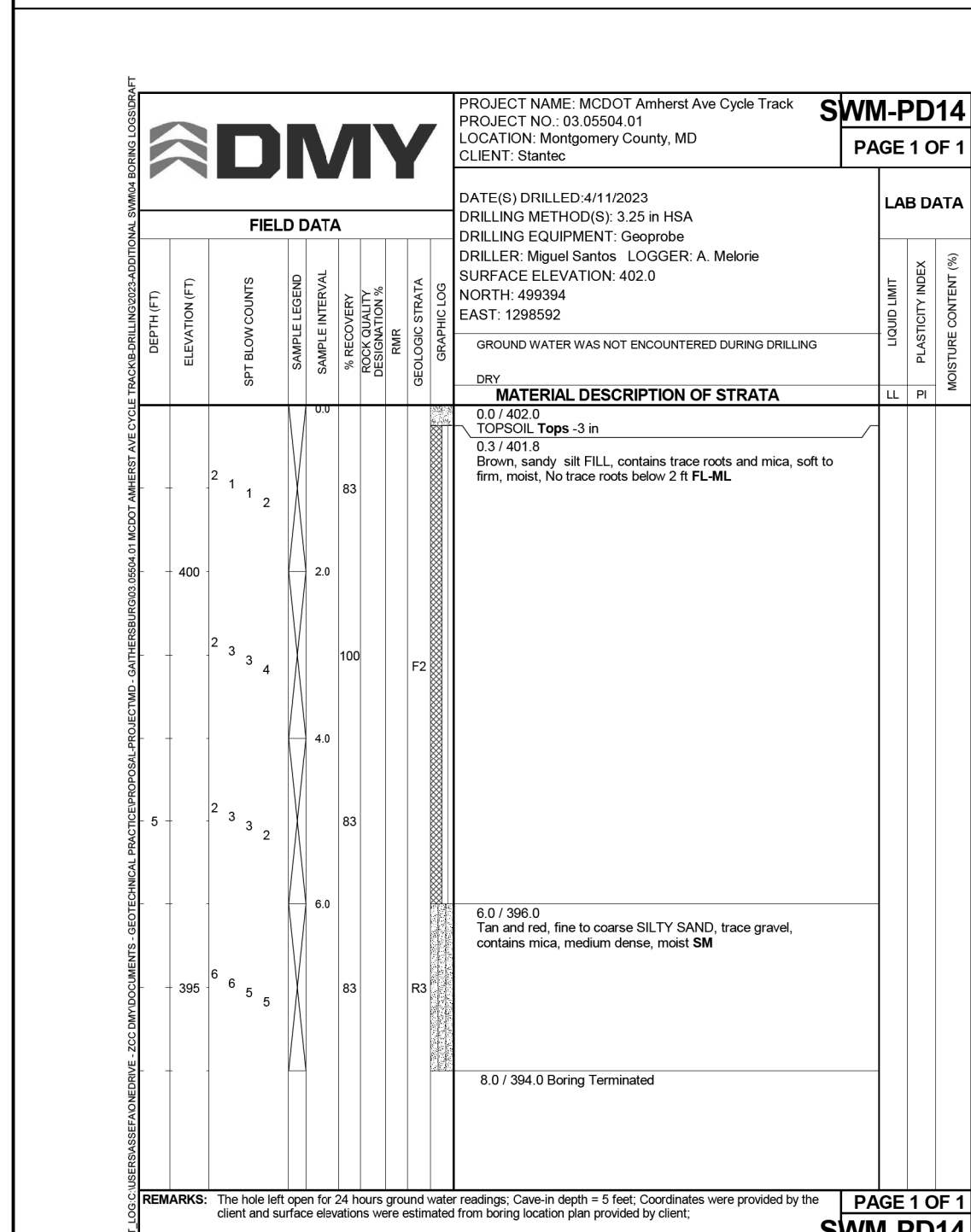
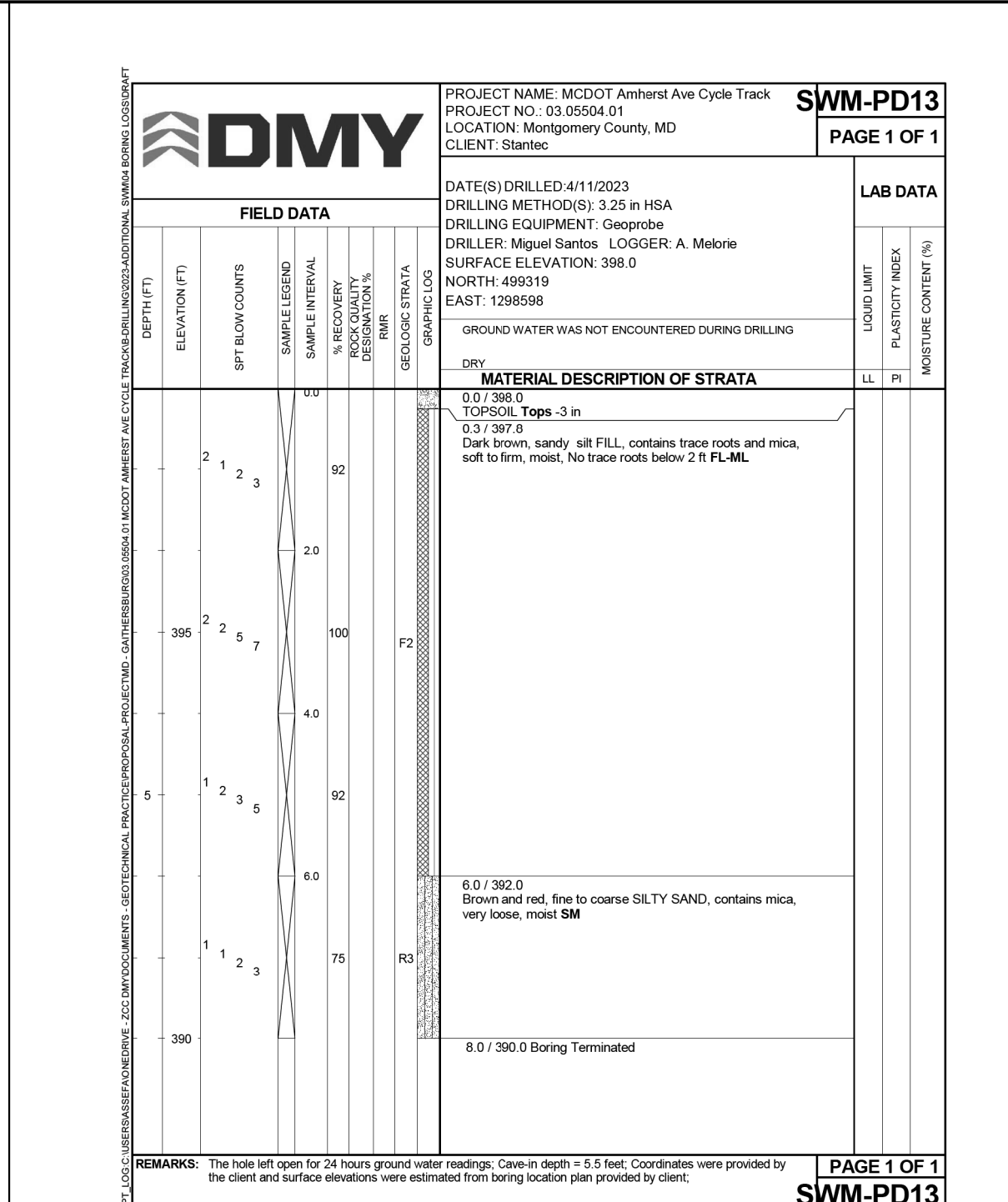
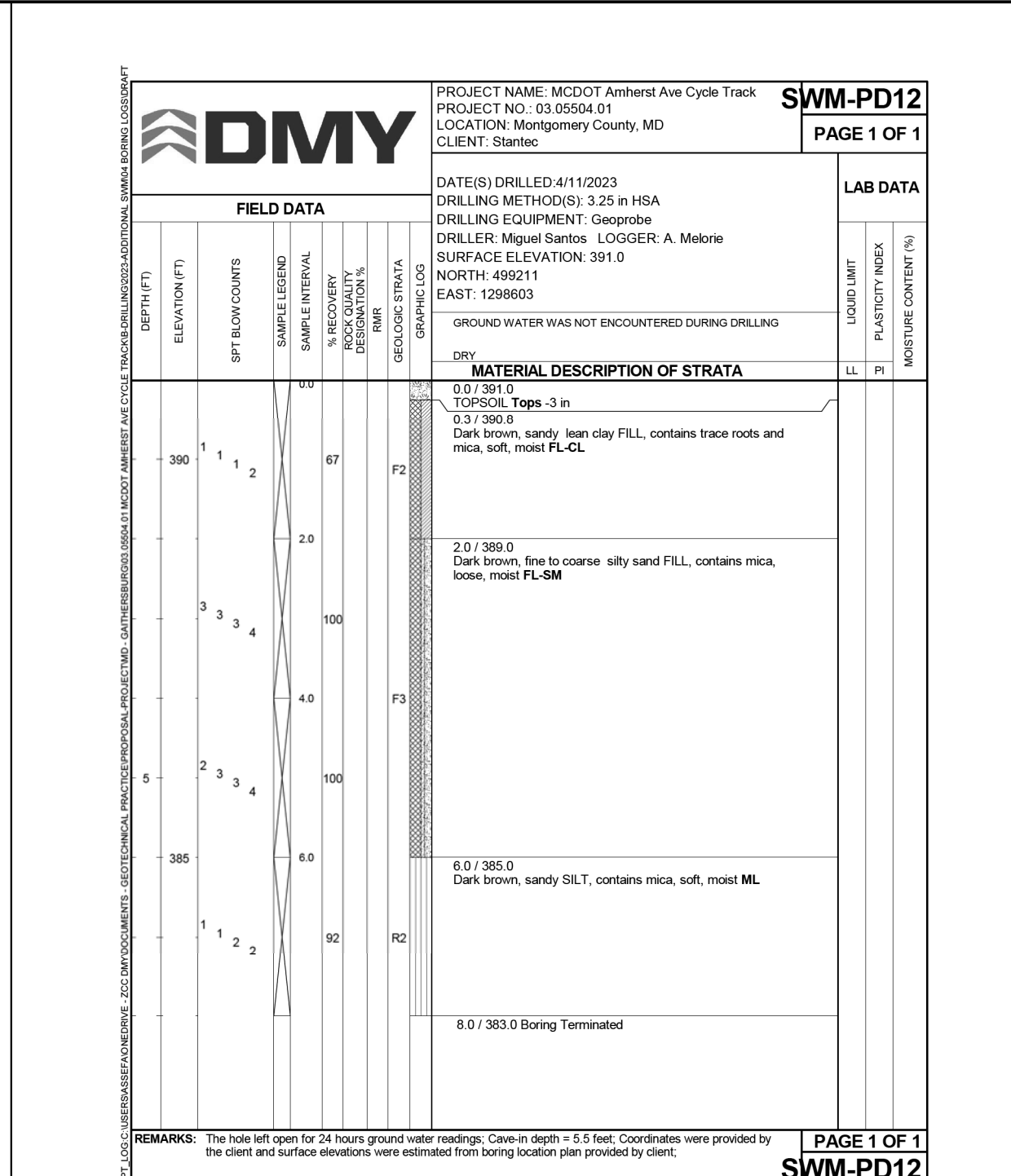
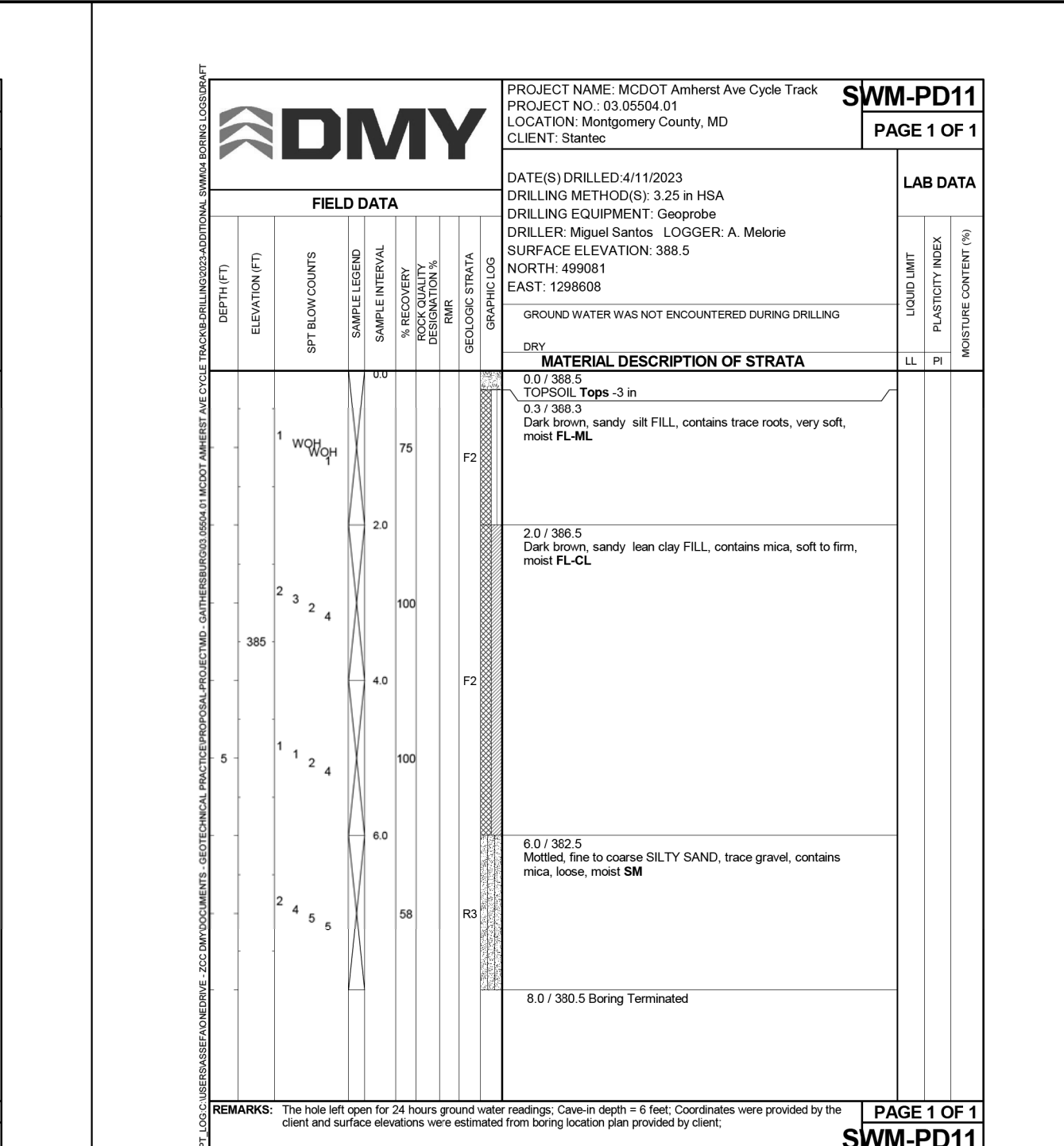
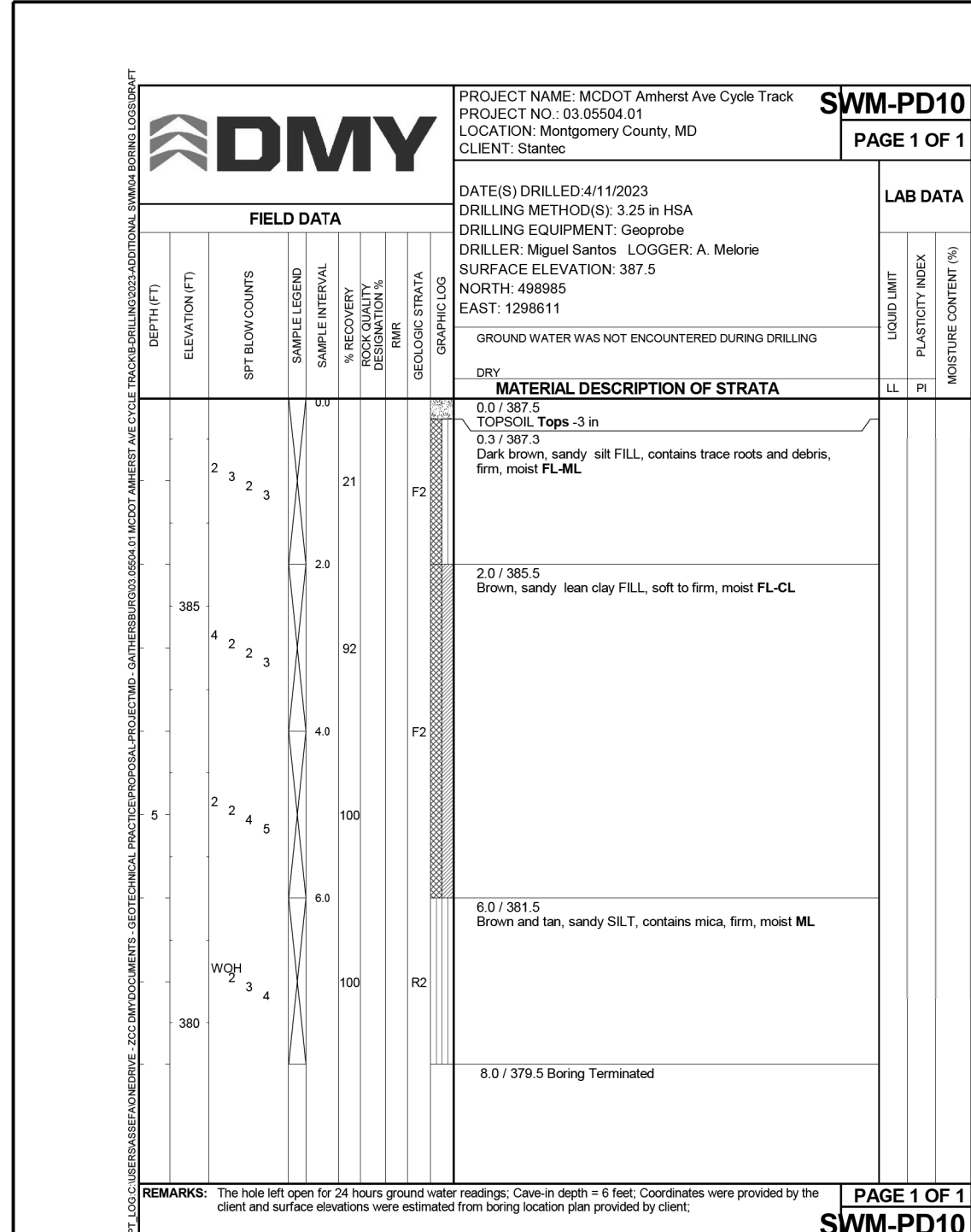
DESIGNED BY: UMK	DATE: OCTOBER, 2023
DRAWN BY: UMK	DATE: OCTOBER, 2023
CHECKED BY: SJZ	DATE: OCTOBER, 2023
DRAWING NO.:	DATE:
RECOMMENDED FOR APPROVAL	
Chief, Design Section	Date
APPROVED	
Chief, Division of Transportation Engineering	Date

DEPARTMENT OF TRANSPORTATION
 DIVISION OF TRANSPORTATION ENGINEERING
 MONTGOMERY COUNTY, MARYLAND

AMHERST AVE CYCLE TRACK
 TEST HOLE LOGS

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: _____





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: _____



NO.	REVISION	BY	APP'D	DATE

DESIGNED BY: UMK	DATE: OCTOBER, 2023
DRAWN BY: UMK	DATE: OCTOBER, 2023
CHECKED BY: SJZ	DATE: OCTOBER, 2023
DRAWING NO.:	DATE:

RECOMMENDED FOR APPROVAL

Chief, Design Section _____ Date _____

APPROVED

Chief, Division of Transportation Engineering _____ Date _____

DEPARTMENT OF TRANSPORTATION
 DIVISION OF TRANSPORTATION ENGINEERING
 MONTGOMERY COUNTY, MARYLAND

AMHERST AVE CYCLE TRACK
 SOIL BORING LOGS

SCALE: NO SCALE SHEET 178 of 208

SB-01