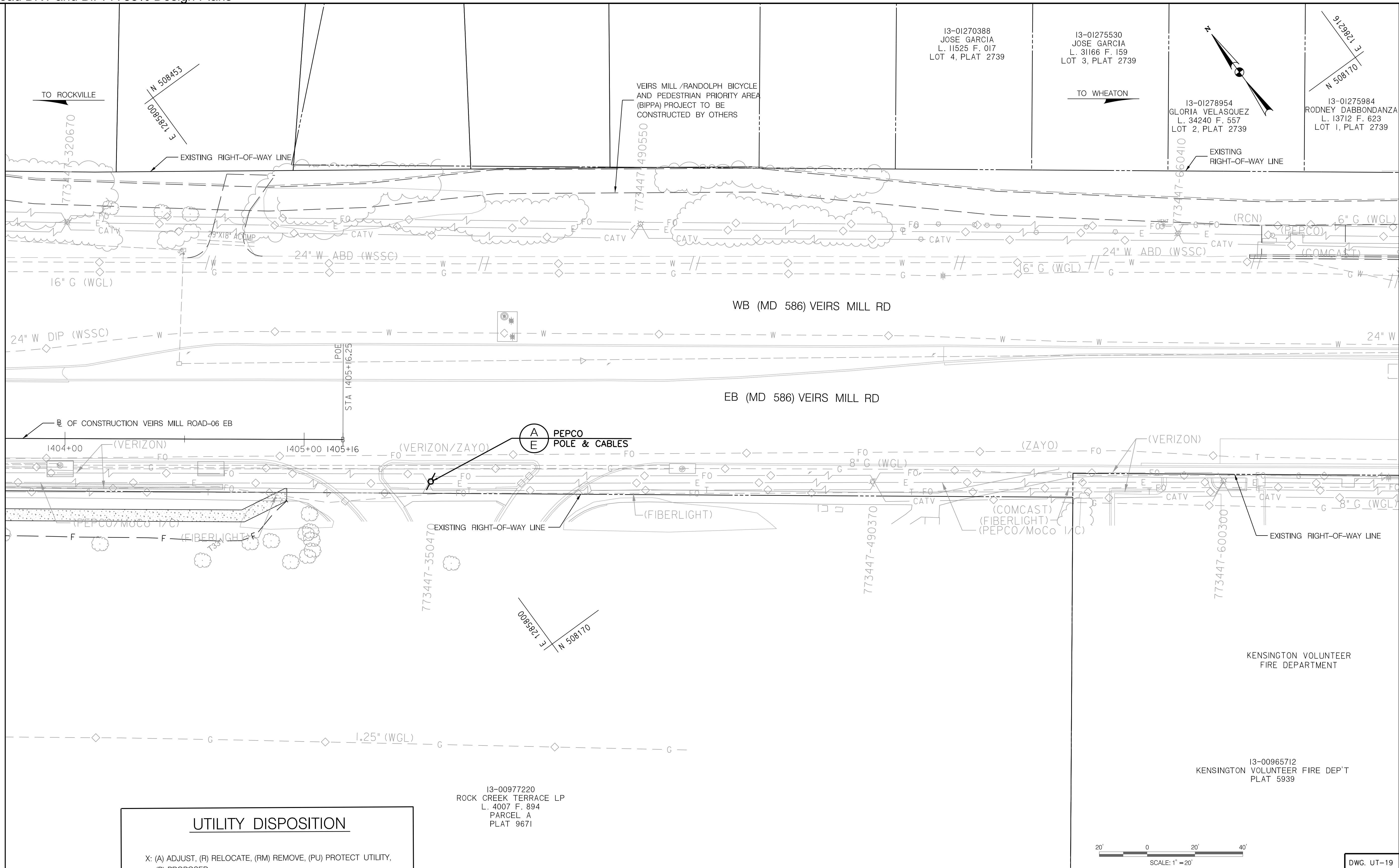


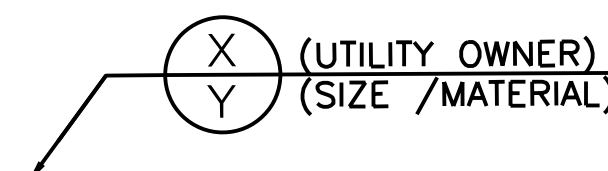


MATCH LINE STA. 1403 + 75 - SEE SHEET UT-18



**UTILITY DISPOSITION**

X: (A) ADJUST, (R) RELOCATE, (RM) REMOVE, (PU) PROTECT UTILITY, (P) PROPOSED



Y: (W) WATER, (S) SANITARY, (G) GAS, (FO) FIBER OPTIC, (E) ELECTRIC, (T) TELEPHONE, (C) CABLE

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Chief, Transportation Planning and Design Section

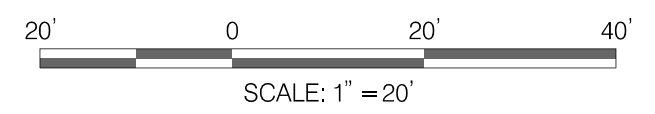
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Chief, Division of Transportation Engineering

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MONTGOMERY COUNTY  
DEPARTMENT OF TRANSPORTATION  
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MD 586 (VEIRS MILL ROAD) BRT  
UTILITY COMPOSITE PLAN  
IMPROVEMENT 9: ROBINDALE DRIVE

SCALE 1" = 20' DATE AUGUST, 2021

CONTRACT NO. 0501913 SHEET NO. 177 OF 204



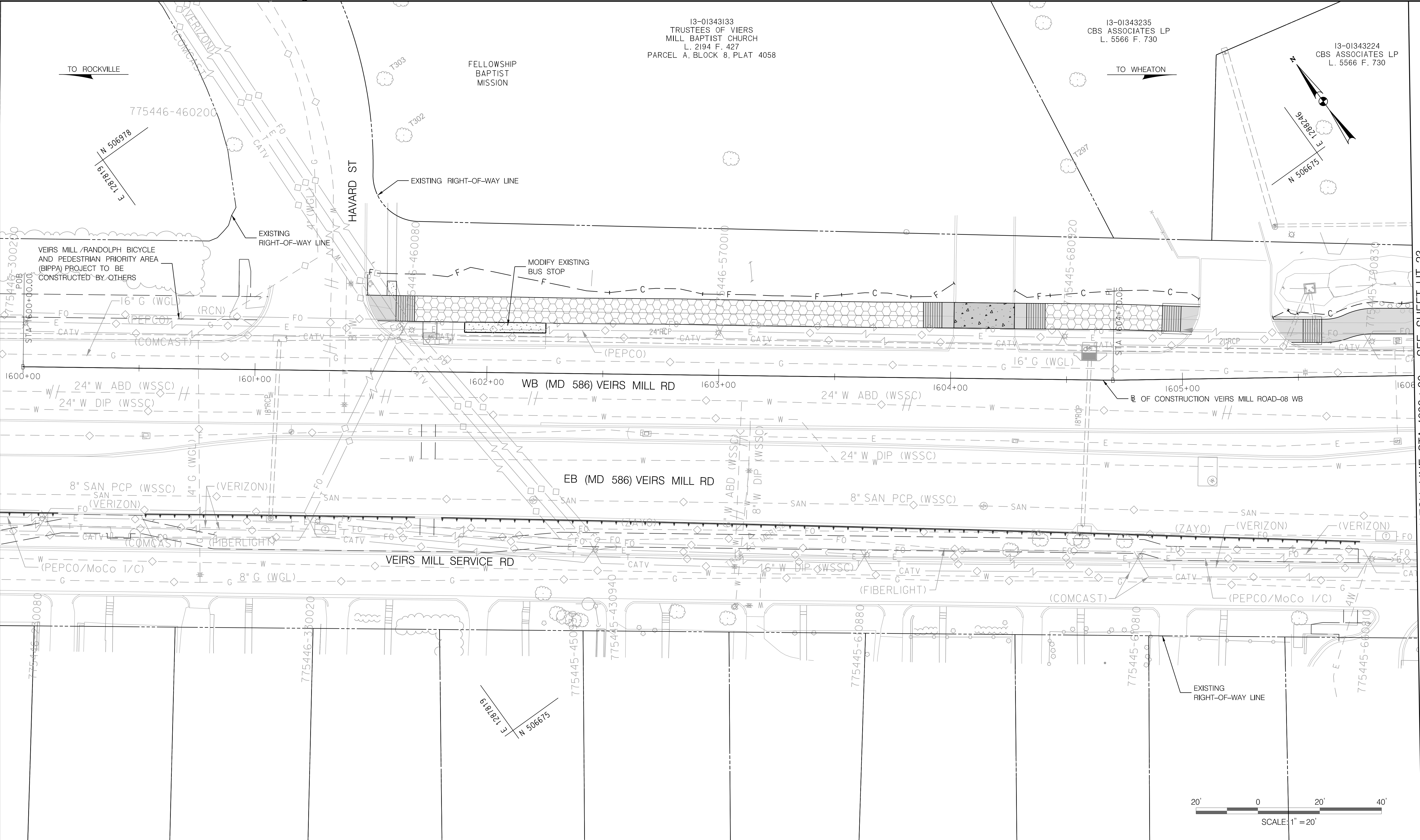
DWG. UT-19

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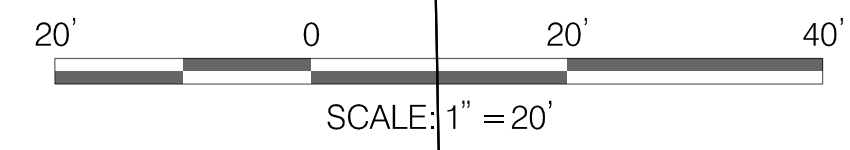
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**MD 586 (VEIRS MILL ROAD) BRT  
 UTILITY COMPOSITE PLAN  
 IMPROVEMENT 11: RANDOLPH ROAD**

SCALE 1" = 20' DATE AUGUST, 2021

CONTRACT NO. 0501913 SHEET NO. 180 OF 204



MATCH LINE STA. 1606+00 - SEE SHEET UT-23

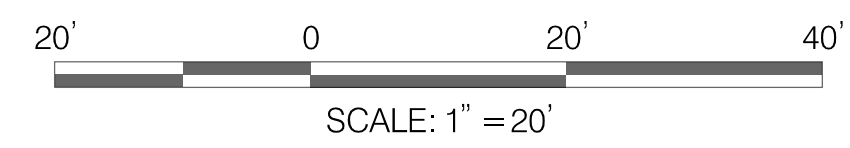
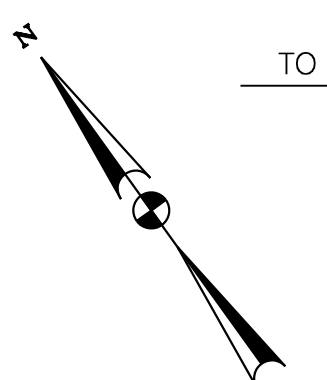
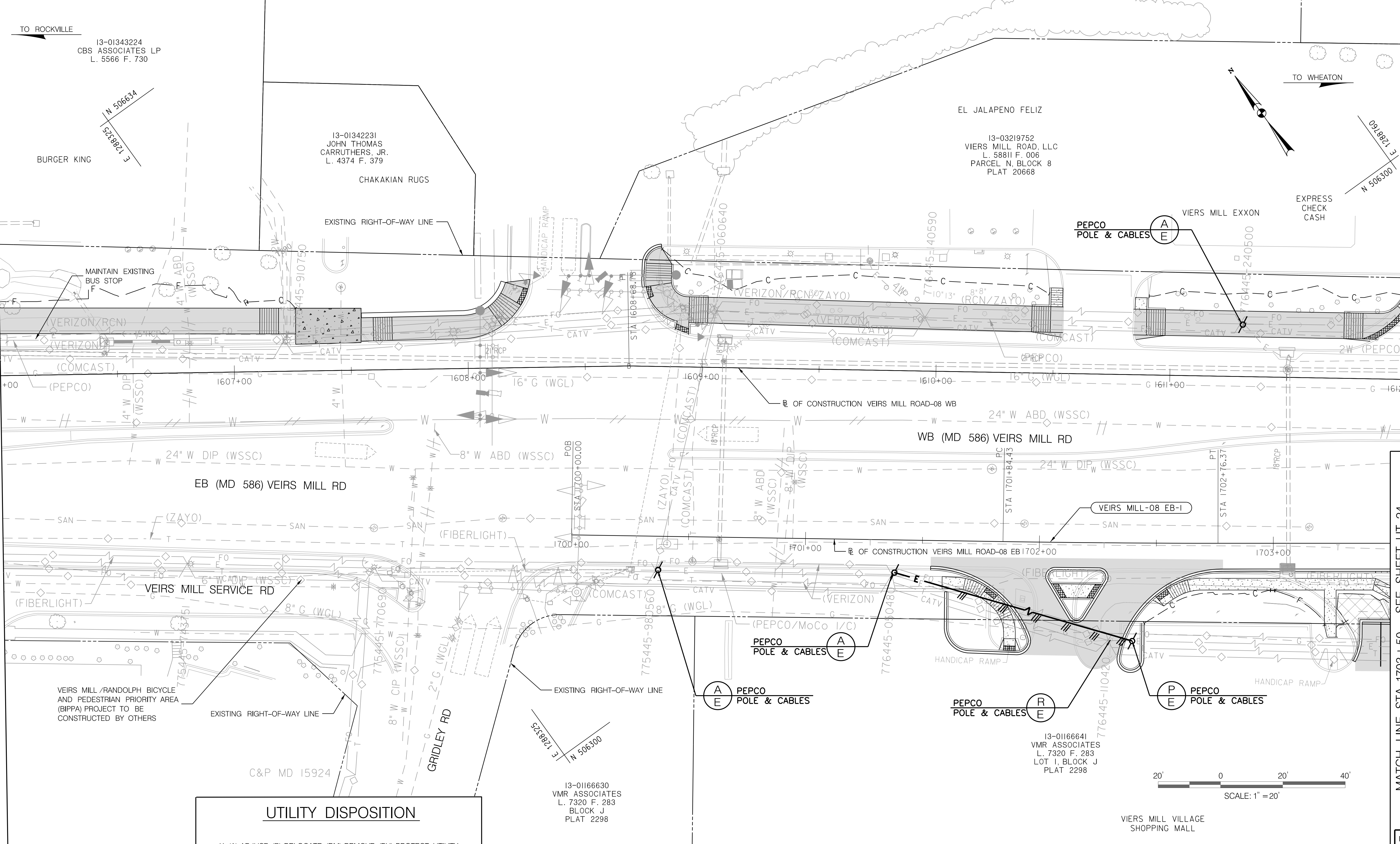
DWG. UT-22

PLOTTER: 6/26/2021 FILE: \\vkk.com\18\Chen\Projects\2020\0907\_MC007Temp\Task 1 - MD 586 BRT\Utilities\CD\1\CD00\Plan\UT-022\_MC068BRT.dwg

MATCH LINE STA. 1606+00 - SEE SHEET UT-22

MATCH LINE STA. 1612+00 - SEE SHEET UT-24

MATCH LINE STA. 1703+50 - SEE SHEET UT-24



**UTILITY DISPOSITION**

X: (A) ADJUST, (R) RELOCATE, (RM) REMOVE, (PU) PROTECT UTILITY, (P) PROPOSED

(X) (UTILITY OWNER)  
(Y) (SIZE / MATERIAL)

Y: (W) WATER, (S) SANITARY, (G) GAS, (FO) FIBER OPTIC, (E) ELECTRIC, (T) TELEPHONE, (C) CABLE

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MD 586 (VEIRS MILL ROAD) BRT  
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IMPROVEMENT 11: RANDOLPH ROAD

SCALE 1" = 20' DATE AUGUST, 2021

CONTRACT NO. 0501913 SHEET NO. 181 OF 204

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P:\ATTEN\_4626291  
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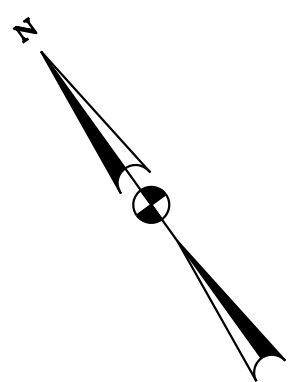
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CBS ASSOCIATES LP  
L. 5566 F. 730  
PARCEL P, PLAT 23641

13-00958077  
NATIONSBANK, NA  
L. 16593 F. 106

13-03277541  
ARCHLAND PROPERTY I, LLC  
L. 28615 F. 504  
PARCEL B, PLAT 21260

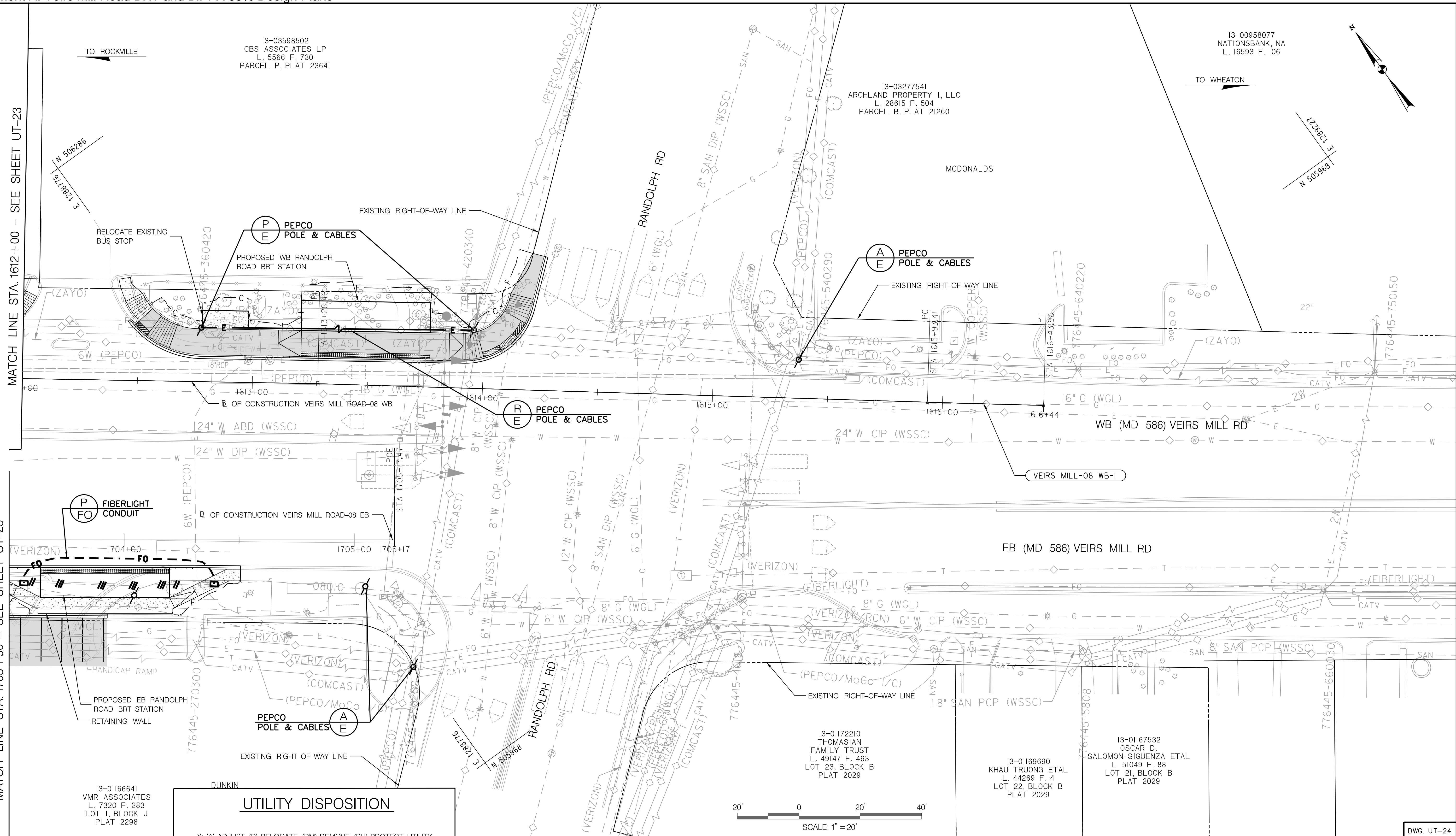
TO ROCKVILLE

TO WHEATON



MATCH LINE STA. 1612+00 - SEE SHEET UT-23

MATCH LINE STA. 1703+50 - SEE SHEET UT-23



(P) FIBERLIGHT CONDUIT

(P) PEPCO POLE & CABLES

(A) PEPCO POLE & CABLES

(R) PEPCO POLE & CABLES

(A) PEPCO POLE & CABLES

13-01166641  
VMR ASSOCIATES  
L. 7320 F. 283  
LOT 1, BLOCK J  
PLAT 2298

13-01172210  
THOMASIAN FAMILY TRUST  
L. 49147 F. 463  
LOT 23, BLOCK B  
PLAT 2029

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KHOU TRUONG ETAL  
L. 44269 F. 4  
LOT 22, BLOCK B  
PLAT 2029

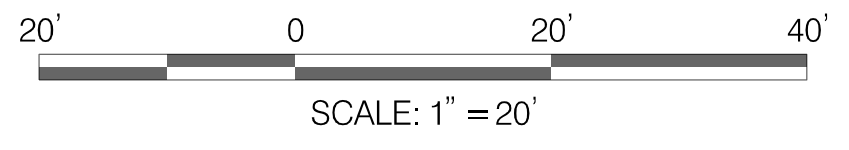
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L. 51049 F. 88  
LOT 21, BLOCK B  
PLAT 2029

**UTILITY DISPOSITION**

X: (A) ADJUST, (R) RELOCATE, (RM) REMOVE, (PU) PROTECT UTILITY, (P) PROPOSED

Y: (W) WATER, (S) SANITARY, (G) GAS, (FO) FIBER OPTIC, (E) ELECTRIC, (T) TELEPHONE, (C) CABLE

(X) (UTILITY OWNER)  
(Y) (SIZE / MATERIAL)



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DESIGN SECTION  
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DIVISION OF TRANSPORTATION ENGINEERING  
MD 586 (VEIRS MILL ROAD) BRT  
UTILITY COMPOSITE PLAN  
IMPROVEMENT 11: RANDOLPH ROAD

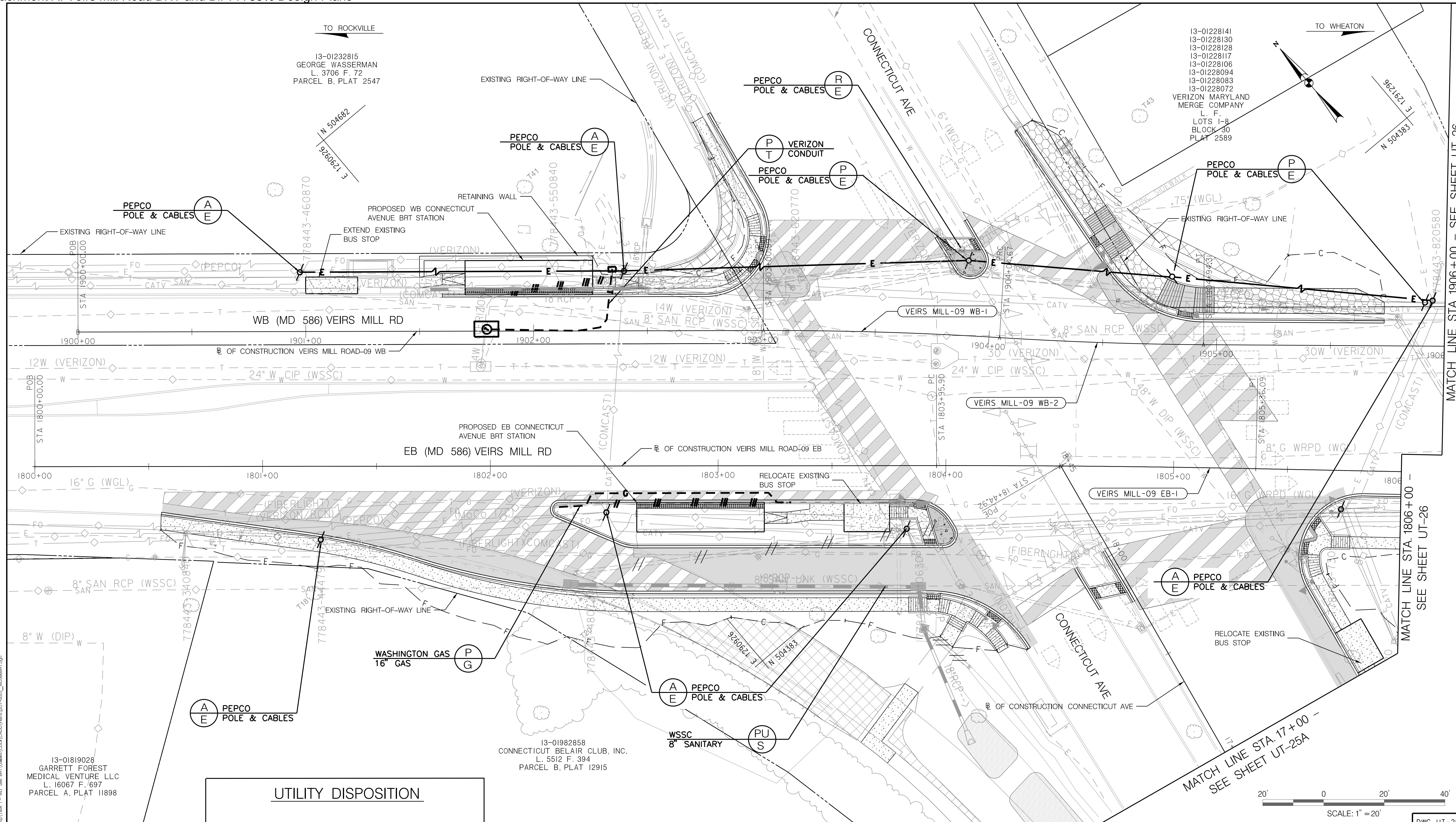
SCALE 1" = 20' DATE AUGUST, 2021

CONTRACT NO. 0501913 SHEET NO. 182 OF 204

PLOTTER: 6/25/2021  
 FILE: \\rkk.com\18\Chen\Projects\2020\20097\_MCDOT\Temp\UT-24\_MCDOT\UT-24.dwg







**UTILITY DISPOSITION**

X: (A) ADJUST, (R) RELOCATE, (RM) REMOVE, (PU) PROTECT UTILITY, (P) PROPOSED

Y: (W) WATER, (S) SANITARY, (G) GAS, (FO) FIBER OPTIC, (E) ELECTRIC, (T) TELEPHONE, (C) CABLE

(X) (UTILITY OWNER)  
(Y) (SIZE / MATERIAL)

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13-01982858  
 CONNECTICUT BELAIR CLUB, INC.  
 L. 5512 F. 394  
 PARCEL B, PLAT 12915

OWNER/ADDRESS:  
 MONTGOMERY COUNTY  
 DEPARTMENT OF TRANSPORTATION  
 100 EDISON PARK DRIVE  
 GAITHERSBURG, MARYLAND

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 DESIGN SECTION  
 240-777-7221

NO.	REVISION	DATE	BY

MONTGOMERY COUNTY  
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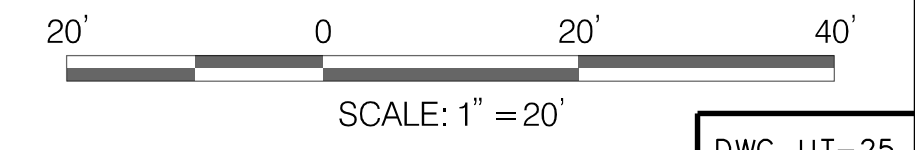
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 Chief, Transportation Planning and Design Section

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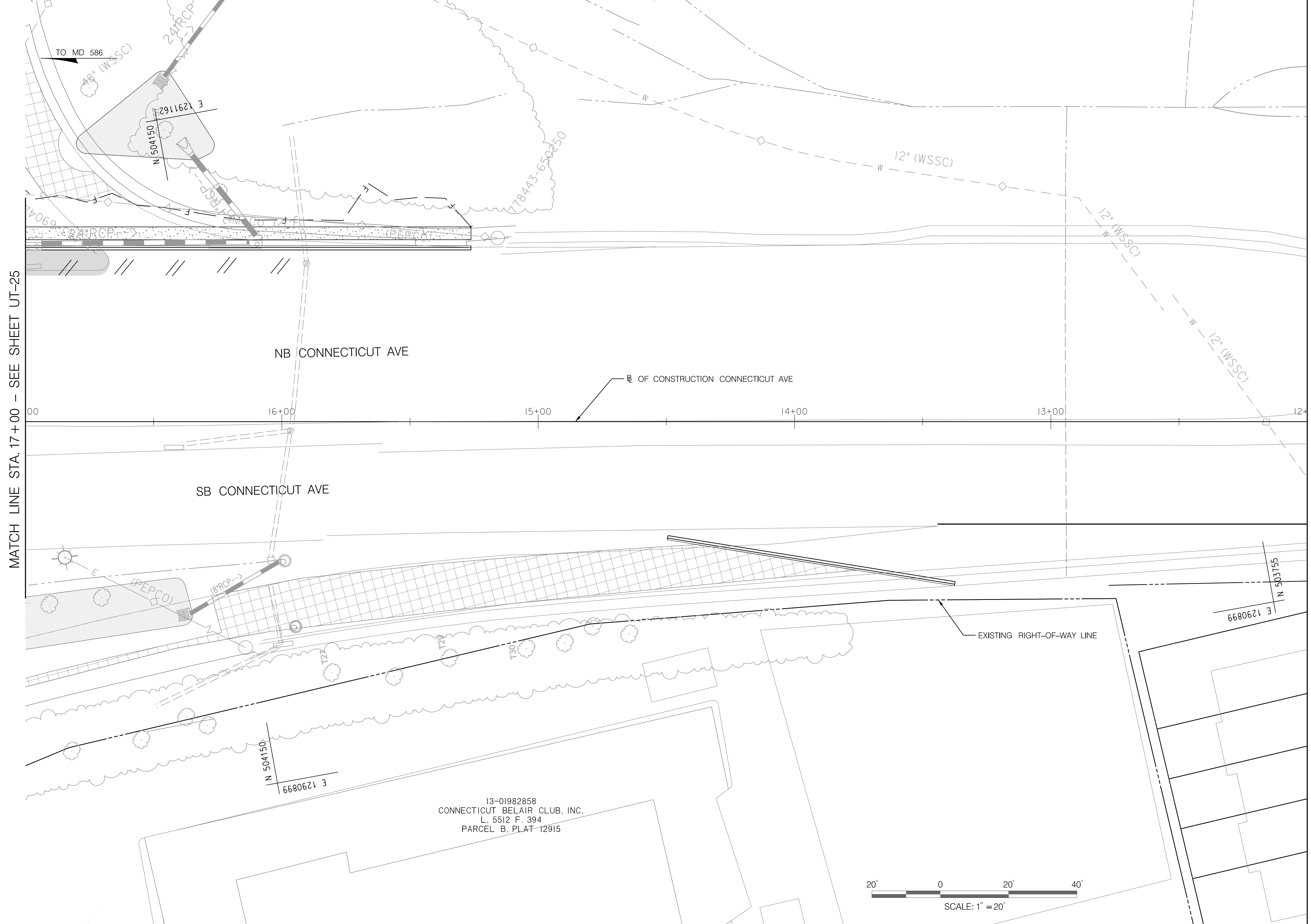
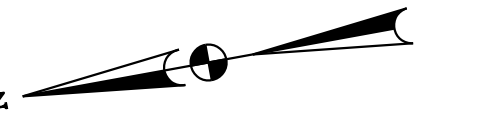
MONTGOMERY COUNTY  
 DEPARTMENT OF TRANSPORTATION  
 DIVISION OF TRANSPORTATION ENGINEERING  
**MD 586 (VEIRS MILL ROAD) BRT  
 UTILITY COMPOSITE PLAN  
 IMPROVEMENT 12: CONNECTICUT AVENUE**

SCALE 1" = 20' DATE AUGUST, 2021

CONTRACT NO. 0501913 SHEET NO. 184 OF 204



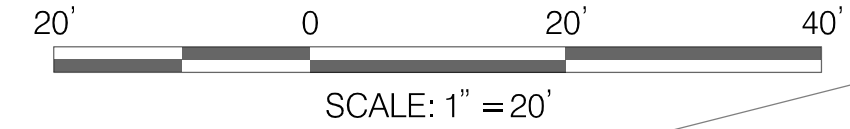
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MATCH LINE STA. 17+00 - SEE SHEET UT-25

MATCH LINE STA. 12+00 - SEE SHEET UT-25B

13-01982858  
CONNECTICUT BELAIR CLUB, INC.  
L. 5512 F. 394  
PARCEL B, PLAT 12915



PLOT DATE: 8/16/2021  
 FILE: \\vkk\kccm\18\Chen\Projects\2020\0907\_MCDOTTemp\Task\_1 - MD 586 BRT\Utilities\CD\CD\Plan\UT-25A\_MCDOTBRT.dgn

  
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 ENGINEERING  
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 DESIGN SECTION  
 240-777-7221

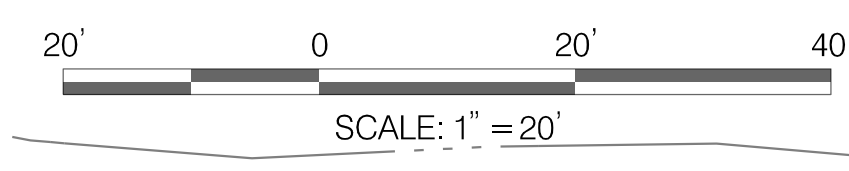
NO.	REVISION	DATE	BY

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MONTGOMERY COUNTY  
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 DIVISION OF TRANSPORTATION ENGINEERING  
**MD 586 (VEIRS MILL ROAD) BRT  
 UTILITY COMPOSITE PLAN  
 IMPROVEMENT 12: CONNECTICUT AVENUE**  
  
 SCALE 1" = 20' DATE AUGUST, 2021  
 CONTRACT NO. 0501913 SHEET NO. 185 OF 204

DWG. UT-25A

MATCH LINE STA. 12+00 - SEE SHEET UT-25A



DWG. UT-25B

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 DIVISION OF TRANSPORTATION ENGINEERING  
**MD 586 (VEIRS MILL ROAD) BRT  
 UTILITY COMPOSITE PLAN  
 IMPROVEMENT 12: CONNECTICUT AVENUE**

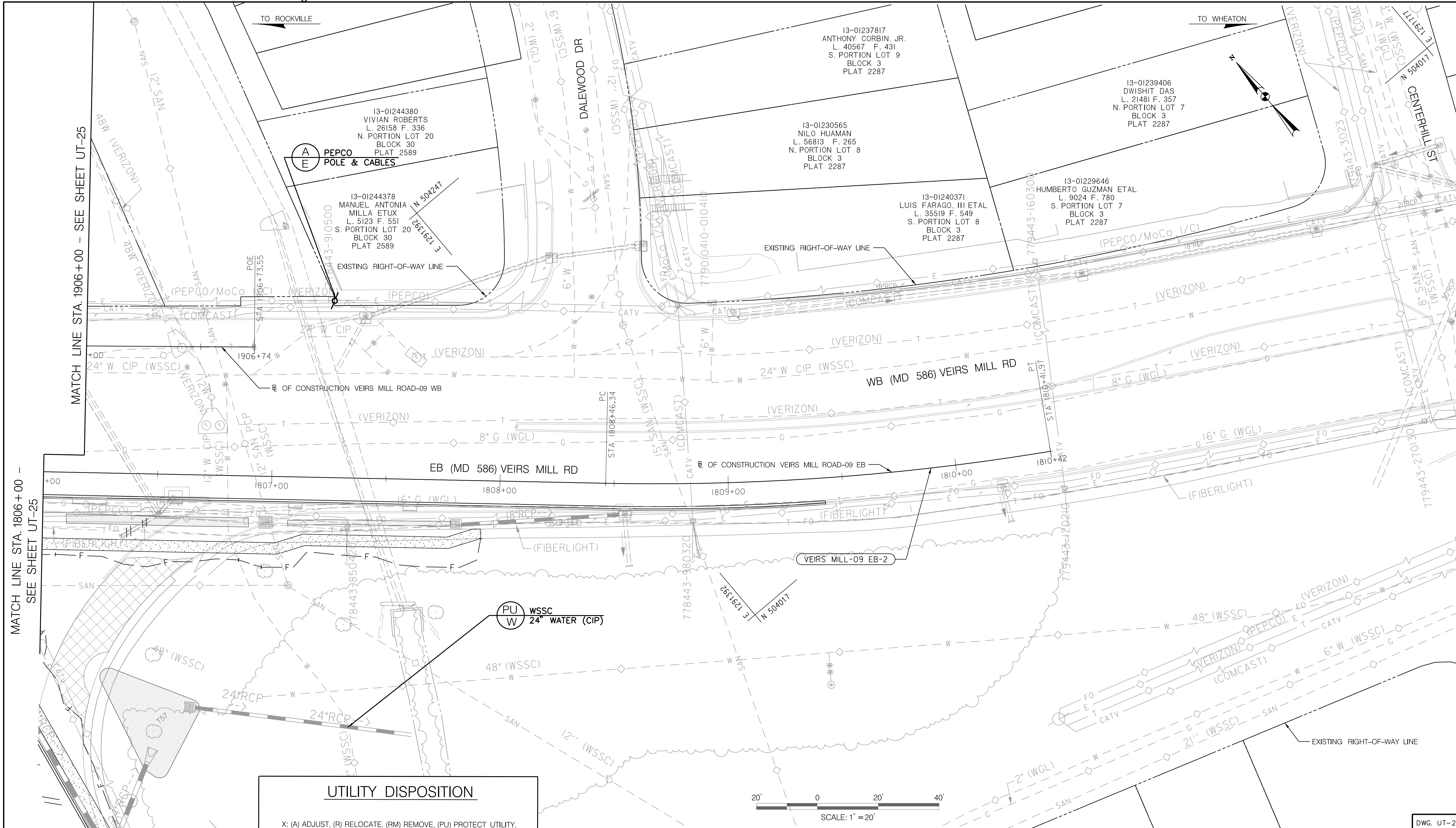
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CONTRACT NO. 0501913 SHEET NO. 186 OF 204

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PLOTTER: 4642521  
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MATCH LINE STA. 1806+00 - SEE SHEET UT-25

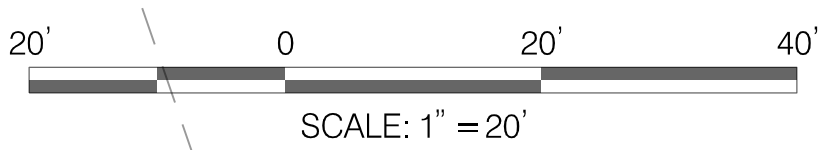
MATCH LINE STA. 1906+00 - SEE SHEET UT-25

**UTILITY DISPOSITION**

X: (A) ADJUST, (R) RELOCATE, (RM) REMOVE, (PU) PROTECT UTILITY, (P) PROPOSED

(X) (UTILITY OWNER)  
(Y) (SIZE / MATERIAL)

Y: (W) WATER, (S) SANITARY, (G) GAS, (FO) FIBER OPTIC, (E) ELECTRIC, (T) TELEPHONE, (C) CABLE



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MD 586 (VEIRS MILL ROAD) BRT  
UTILITY COMPOSITE PLAN  
IMPROVEMENT 12: CONNECTICUT AVENUE

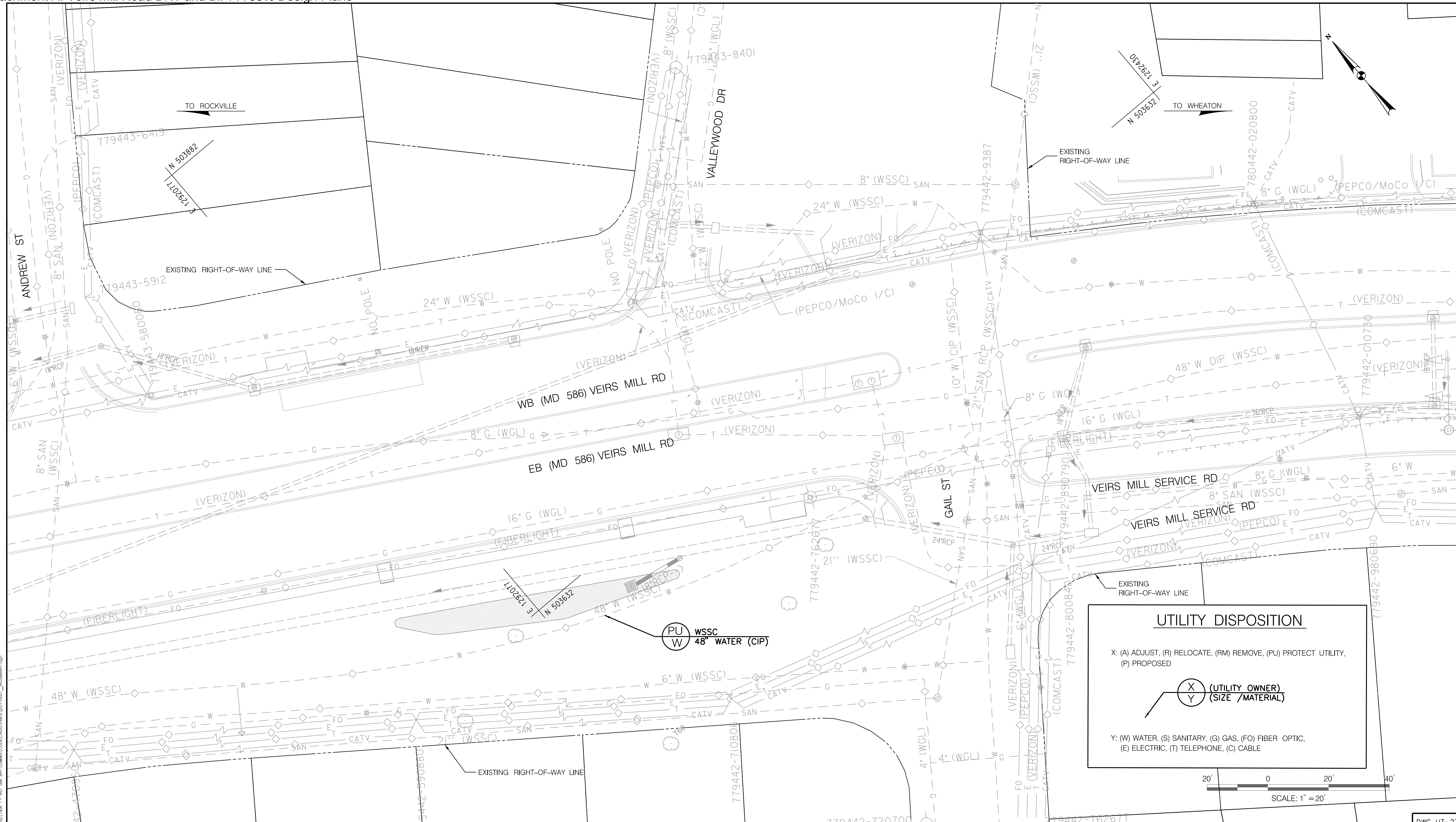
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 FILE: \\s:\k\kcm\18\Chen\Projects\2020\20077\_MCDOTTemp\Task 1 - MD 586 BRT\Utilities\CD\CD\Plan\UT-25.dwg

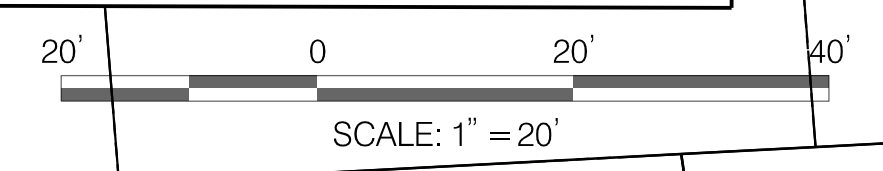


**UTILITY DISPOSITION**

X: (A) ADJUST, (R) RELOCATE, (RM) REMOVE, (PU) PROTECT UTILITY,  
(P) PROPOSED

(UTILITY OWNER)  
(SIZE / MATERIAL)

Y: (W) WATER, (S) SANITARY, (G) GAS, (FO) FIBER OPTIC,  
(E) ELECTRIC, (T) TELEPHONE, (C) CABLE



PLOT DATE: 8/26/21  
 FILE: \\vkk\kcon\18\Chen\Projects\2020\0907\_MCDOTTemp\Task 1 - MD 586 BRT\Utilities\CD\Plan\UT-27.dwg

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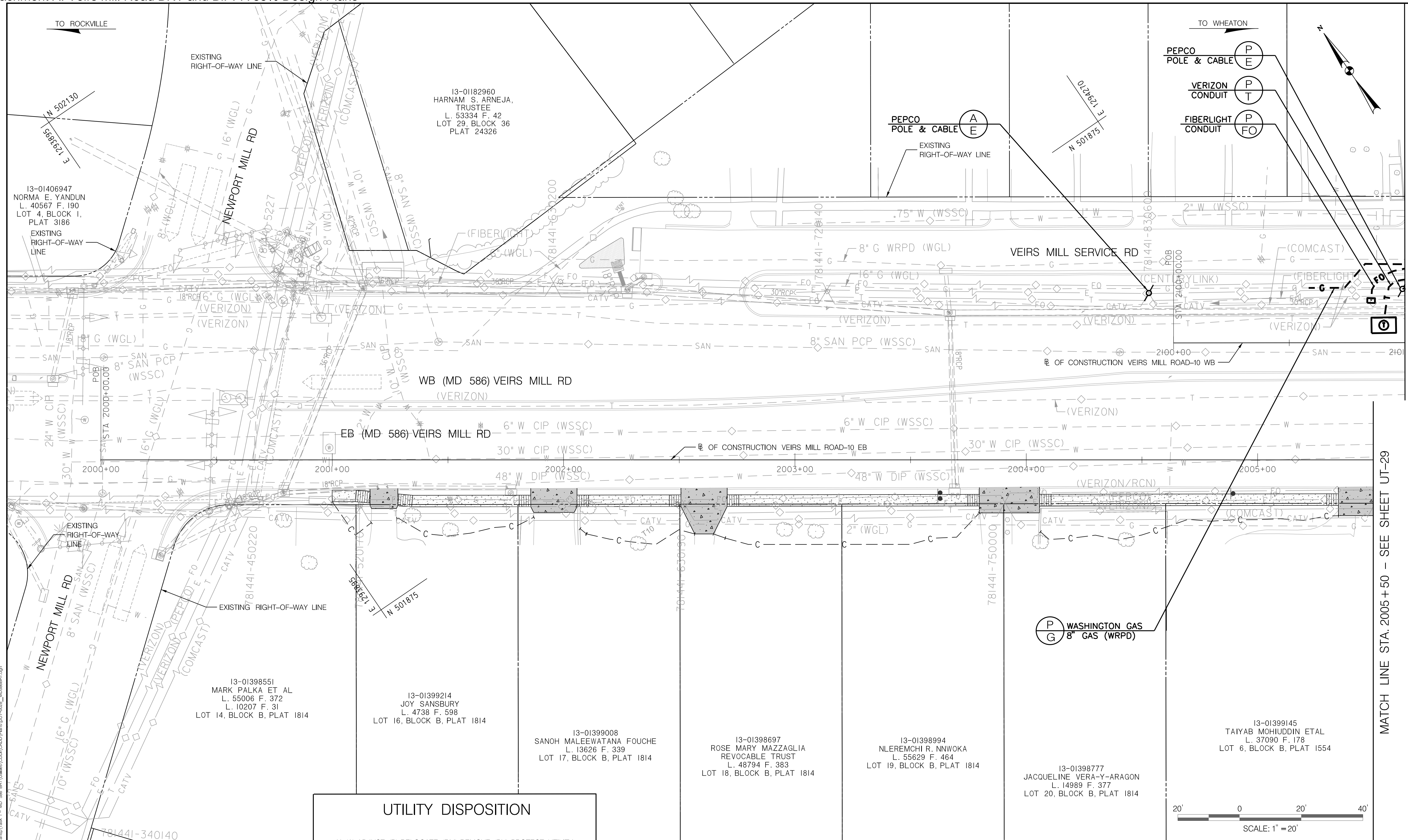
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 Chief, Division of Transportation Engineering

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**MD 586 (VEIRS MILL ROAD) BRT**  
**UTILITY COMPOSITE PLAN**  
 SWM POND

SCALE 1" = 20' DATE AUGUST, 2021  
 CONTRACT NO. 0501913 SHEET NO. 188 OF 204



MATCH LINE STA. 2101+00 - SEE SHEET UT-29

MATCH LINE STA. 2005+50 - SEE SHEET UT-29

### UTILITY DISPOSITION

X: (A) ADJUST, (R) RELOCATE, (RM) REMOVE, (PU) PROTECT UTILITY, (P) PROPOSED

(X) (UTILITY OWNER)  
(Y) (SIZE / MATERIAL)

Y: (W) WATER, (S) SANITARY, (G) GAS, (FO) FIBER OPTIC, (E) ELECTRIC, (T) TELEPHONE, (C) CABLE

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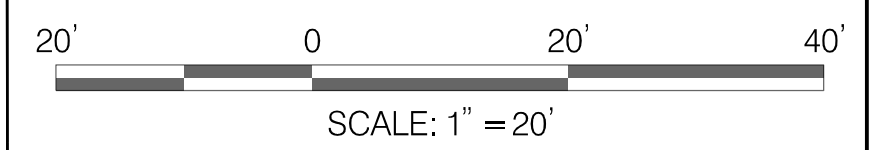
MONTGOMERY COUNTY  
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DIVISION OF TRANSPORTATION ENGINEERING  
MD 586 (VEIRS MILL ROAD) BRT  
UTILITY COMPOSITE PLAN  
IMPROVEMENT 13: NORRIS DRIVE

SCALE 1" = 20' DATE AUGUST, 2021

CONTRACT NO. 0501913 SHEET NO. 189 OF 204

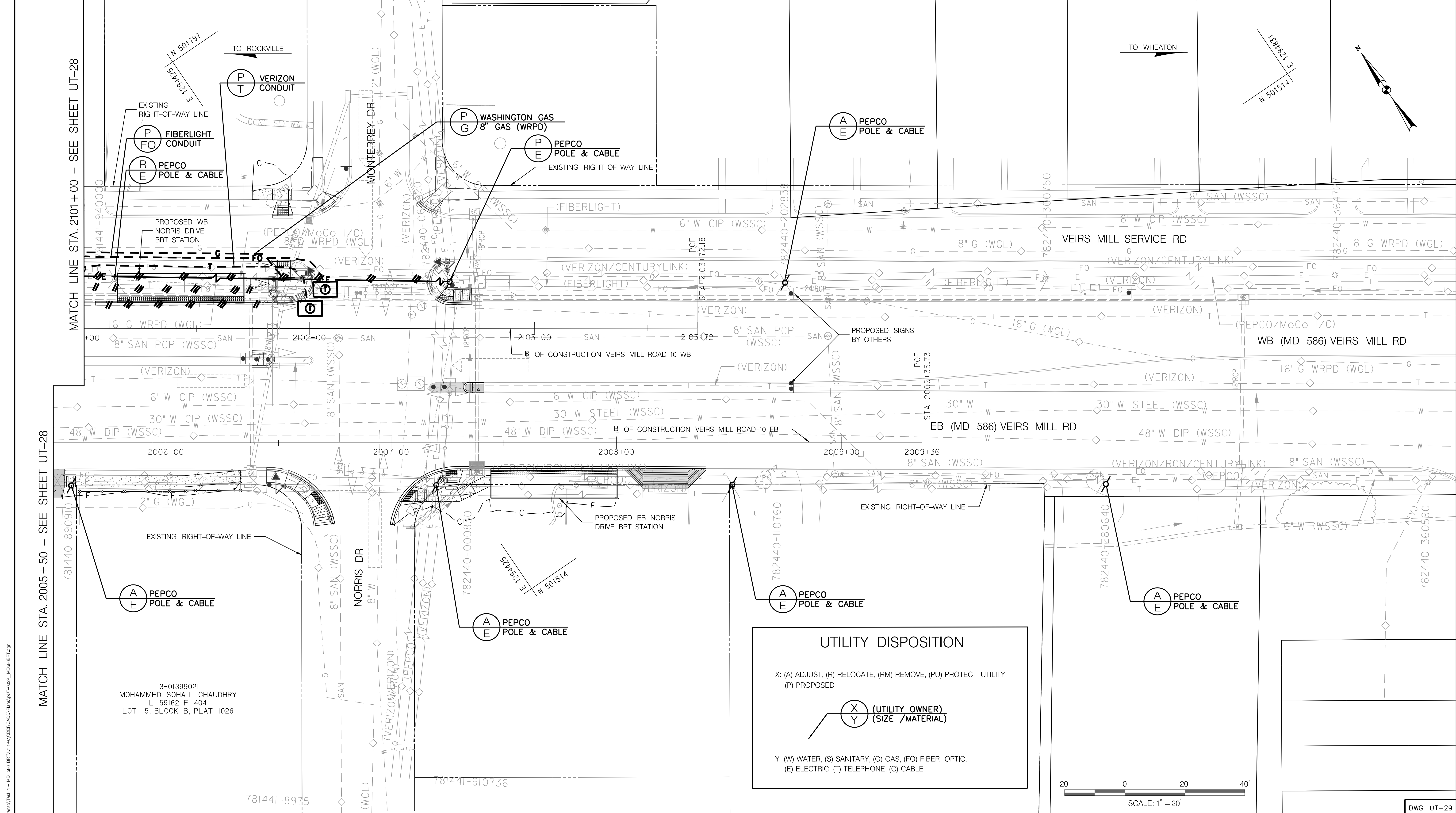
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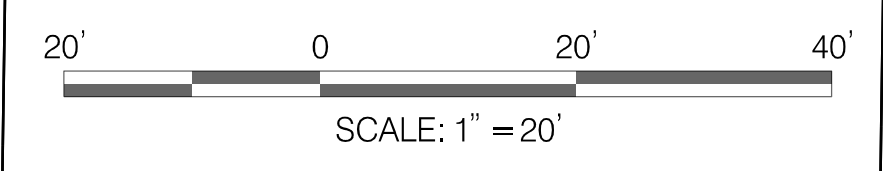
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 MOHAMMED SOHAIL CHAUDHRY  
 L. 59162 F. 404  
 LOT 15, BLOCK B, PLAT 1026

**UTILITY DISPOSITION**

X: (A) ADJUST, (R) RELOCATE, (RM) REMOVE, (PU) PROTECT UTILITY, (P) PROPOSED

(X) (UTILITY OWNER)  
 (Y) (SIZE / MATERIAL)

Y: (W) WATER, (S) SANITARY, (G) GAS, (FO) FIBER OPTIC, (E) ELECTRIC, (T) TELEPHONE, (C) CABLE



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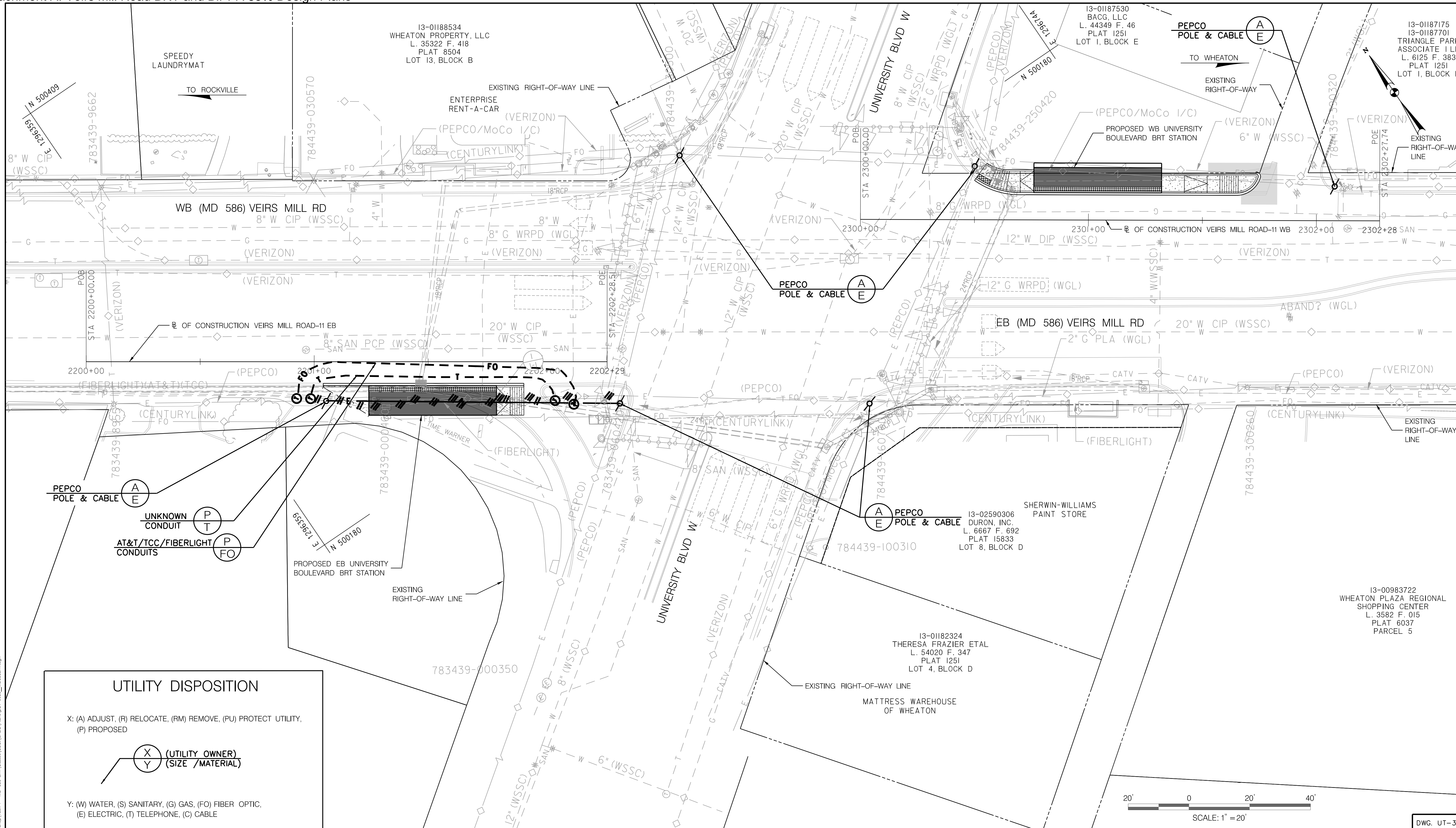
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**MD 586 (VEIRS MILL ROAD) BRT**  
 UTILITY COMPOSITE PLAN  
 IMPROVEMENT 13: NORRIS DRIVE

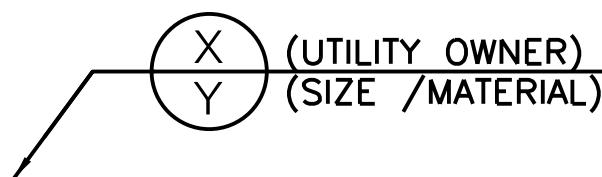
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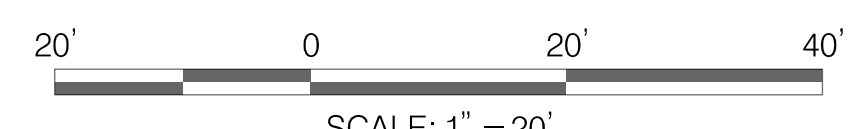


**UTILITY DISPOSITION**

X: (A) ADJUST, (R) RELOCATE, (RM) REMOVE, (PU) PROTECT UTILITY,  
(P) PROPOSED



Y: (W) WATER, (S) SANITARY, (G) GAS, (FO) FIBER OPTIC,  
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UTILITY COMPOSITE PLAN  
IMPROVEMENT 14: UNIVERSITY BOULEVARD**

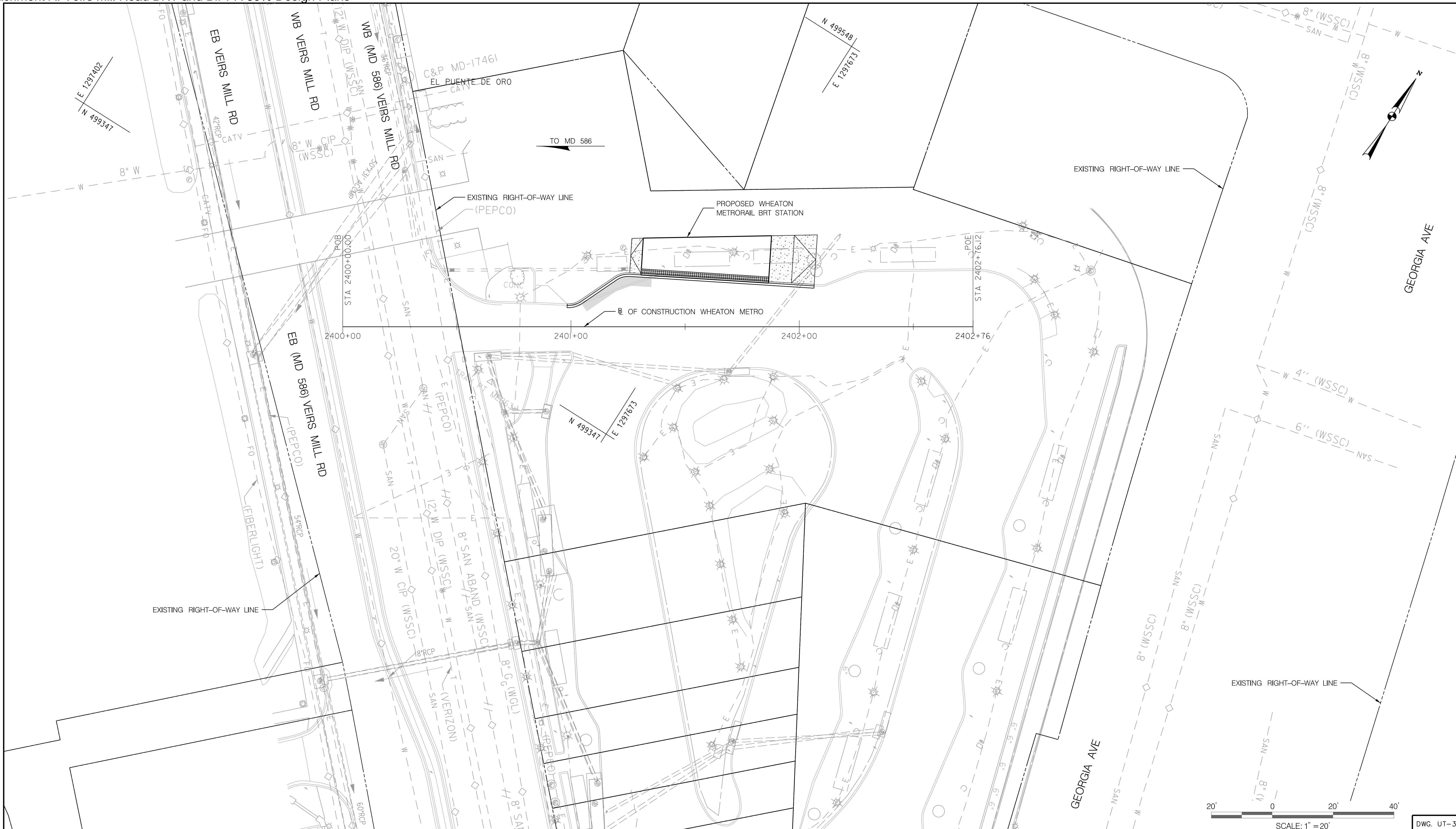
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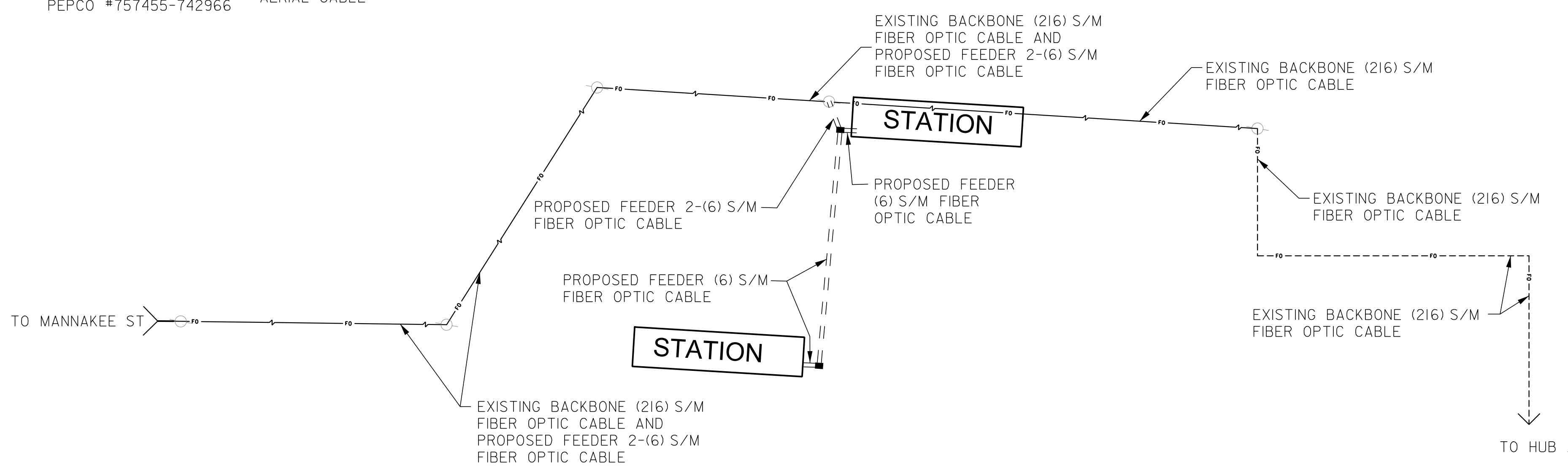
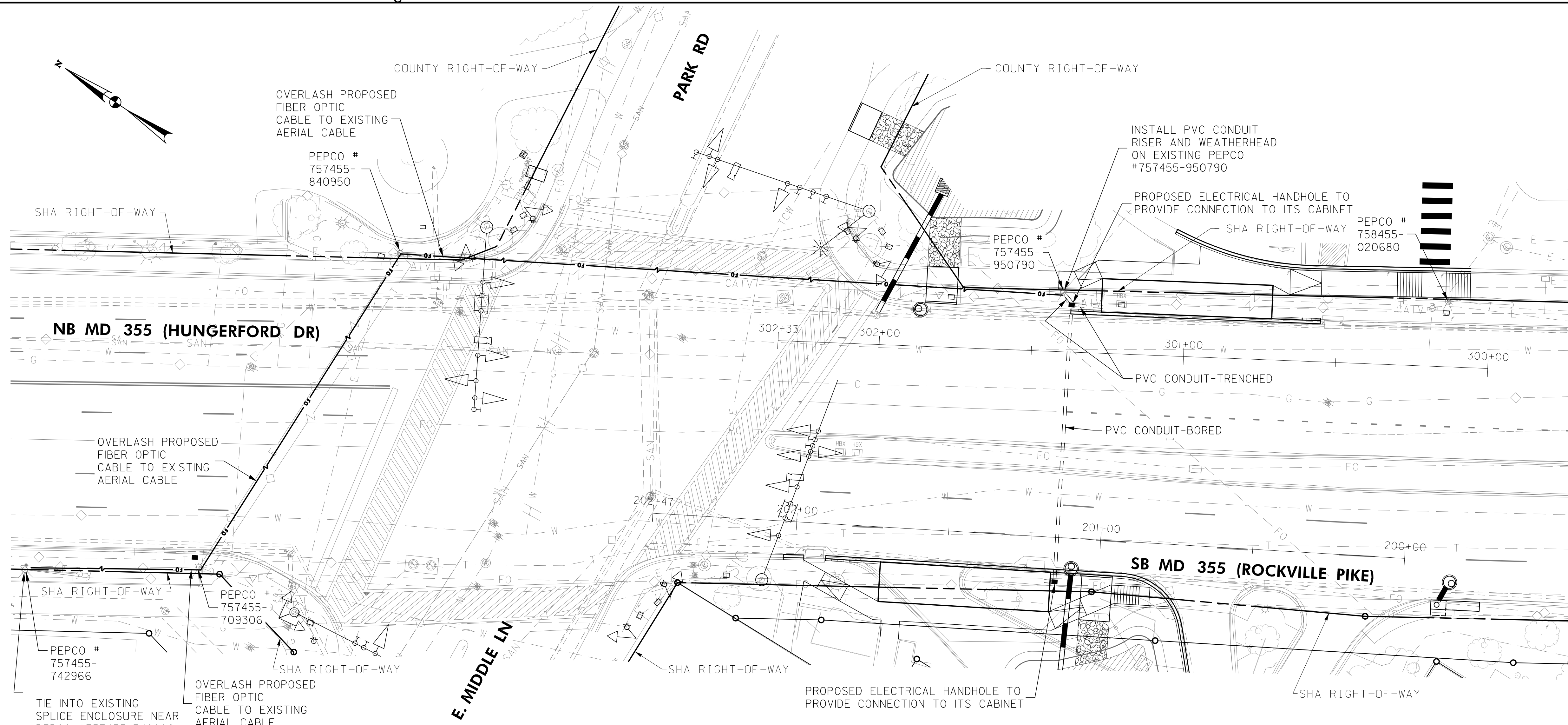
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 IMPROVEMENT 15: WHEATON METRORAIL**

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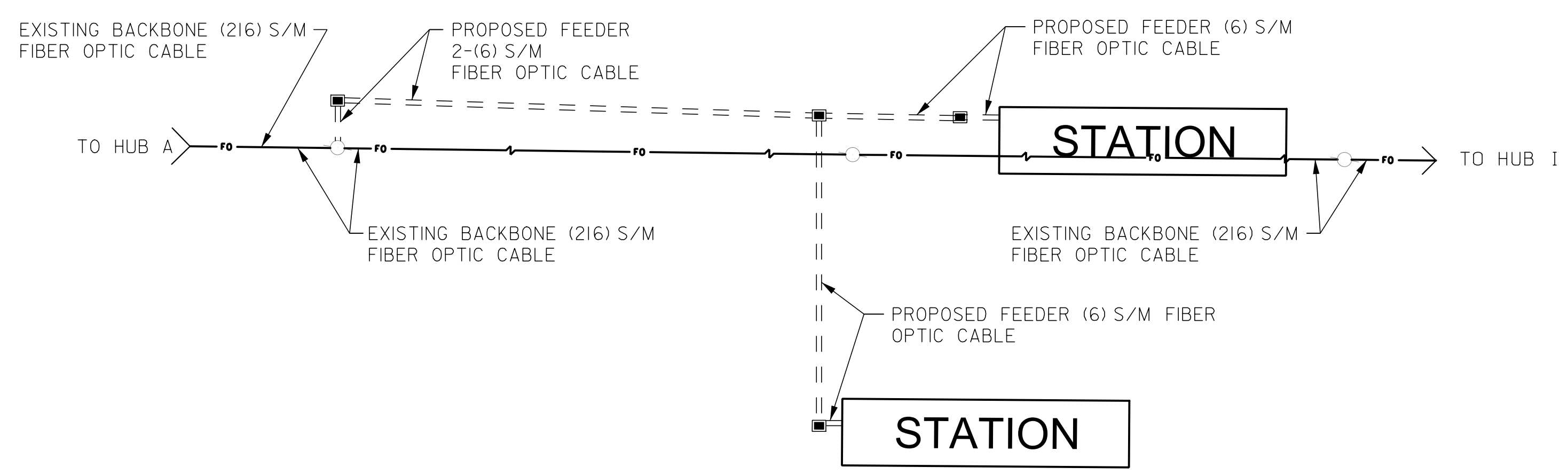
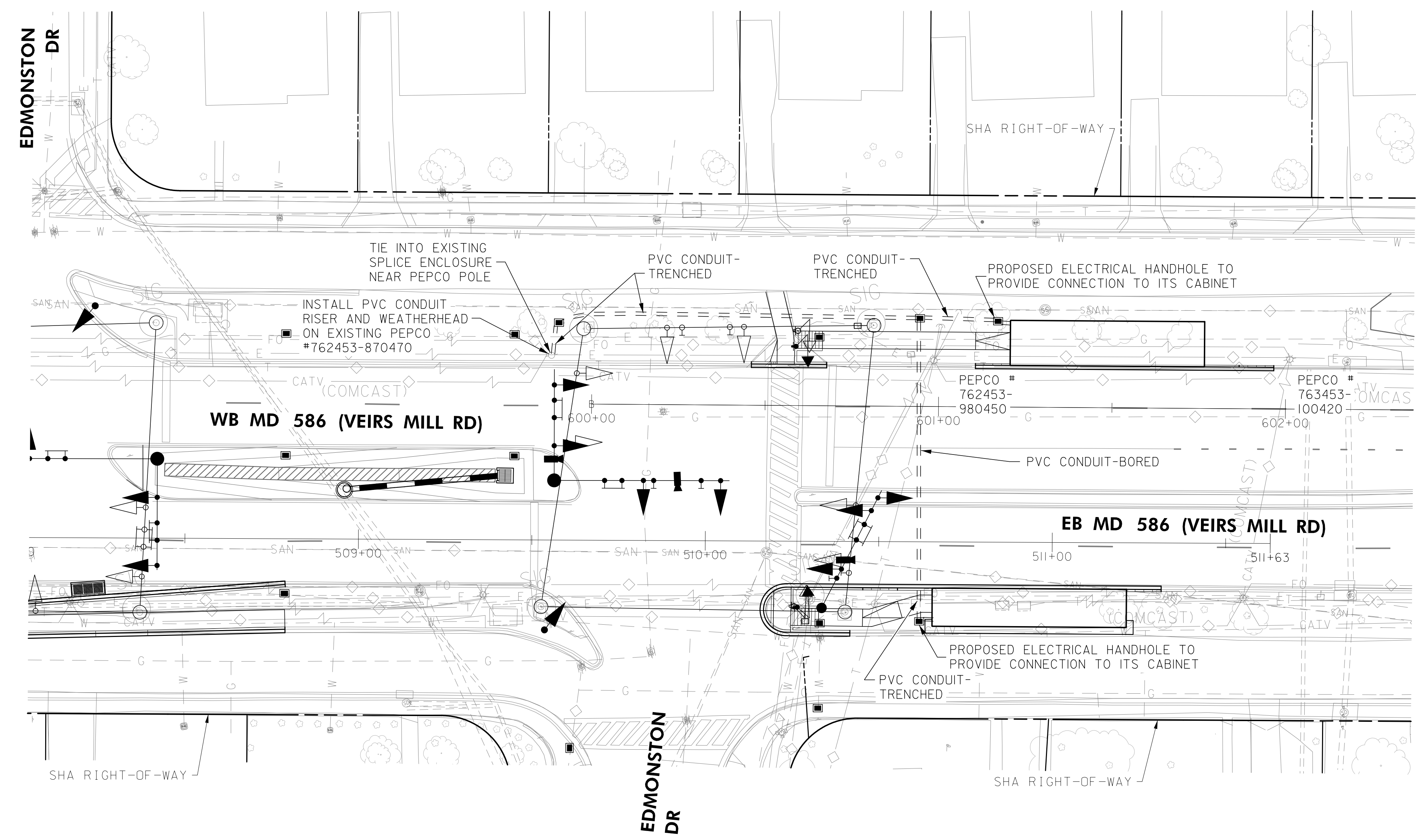
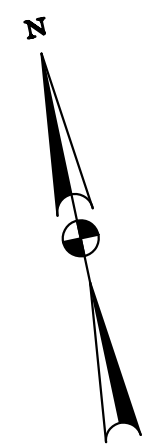
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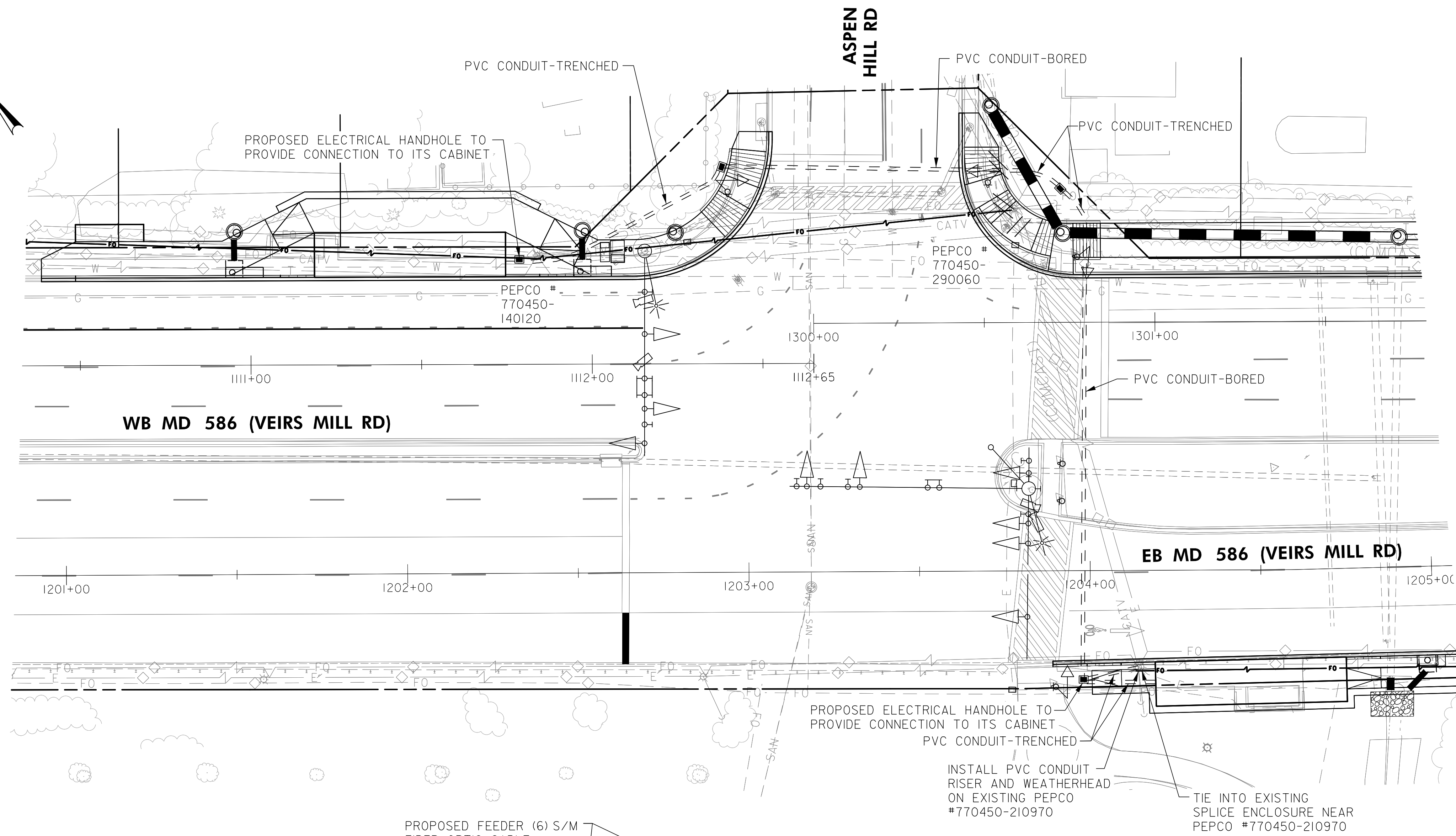
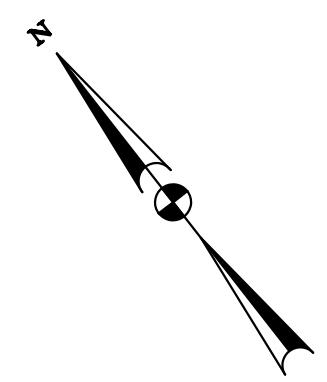
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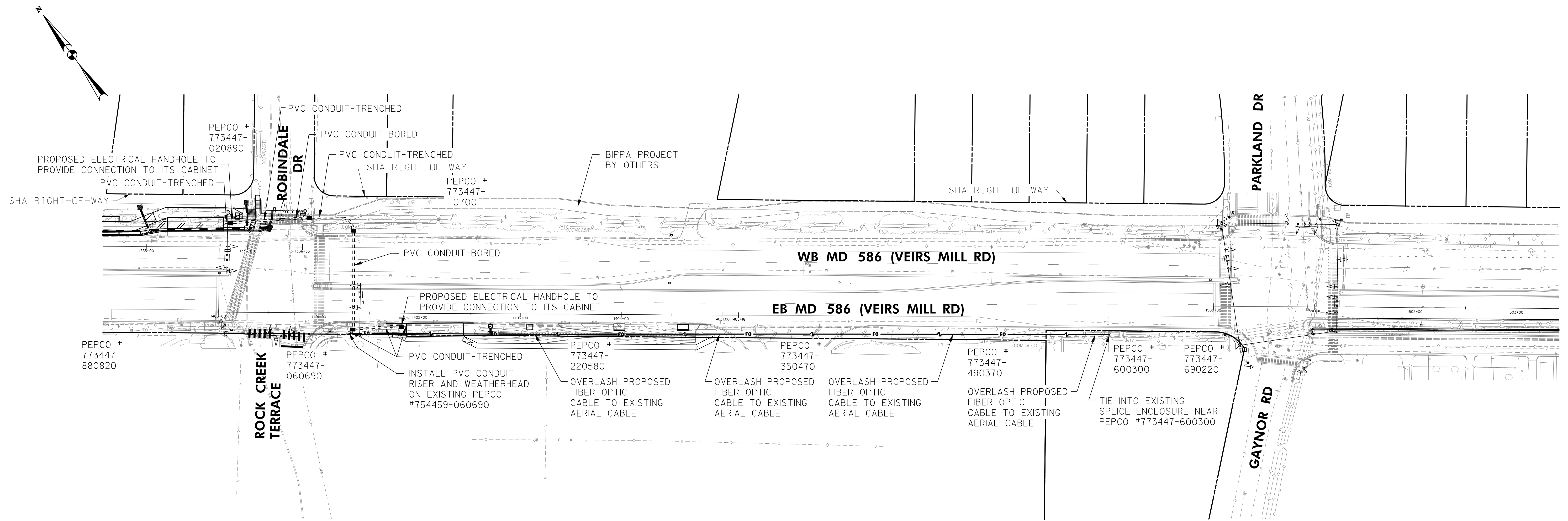
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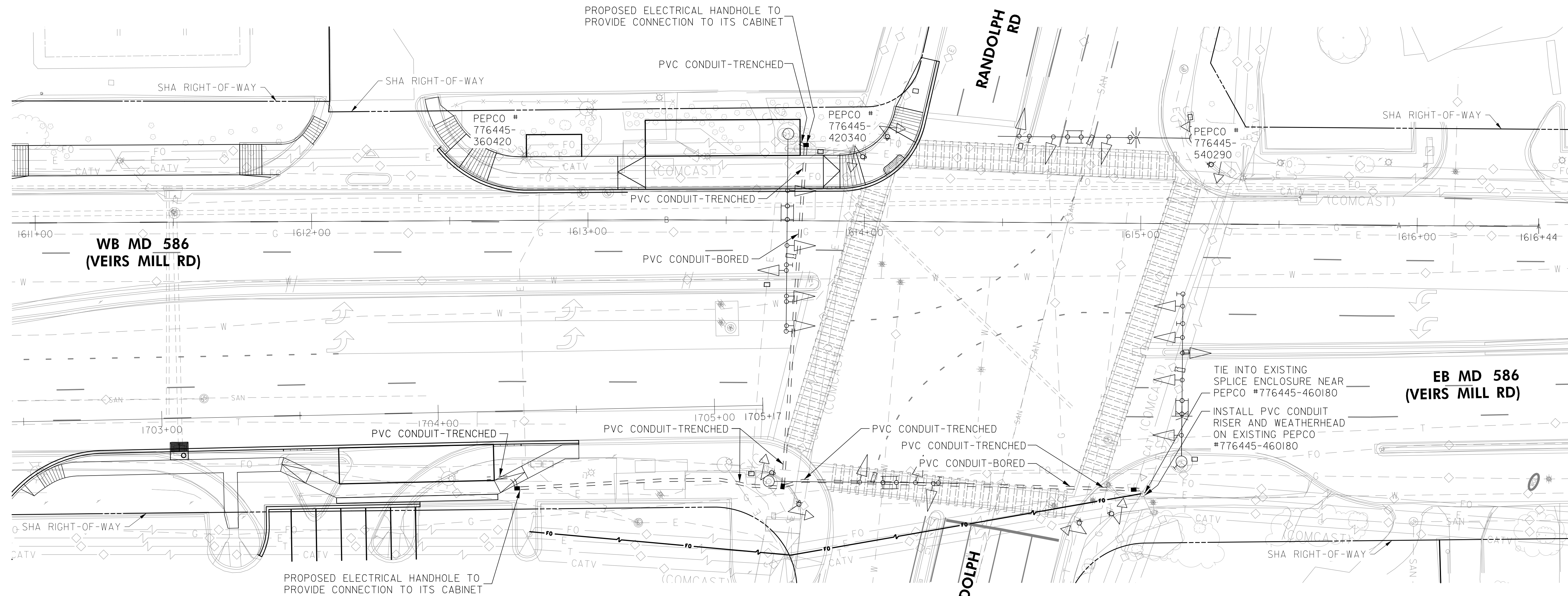
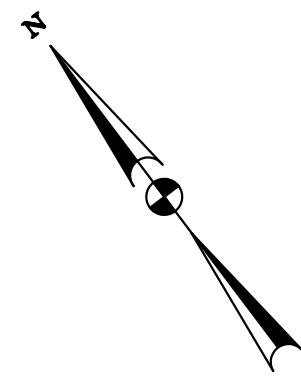
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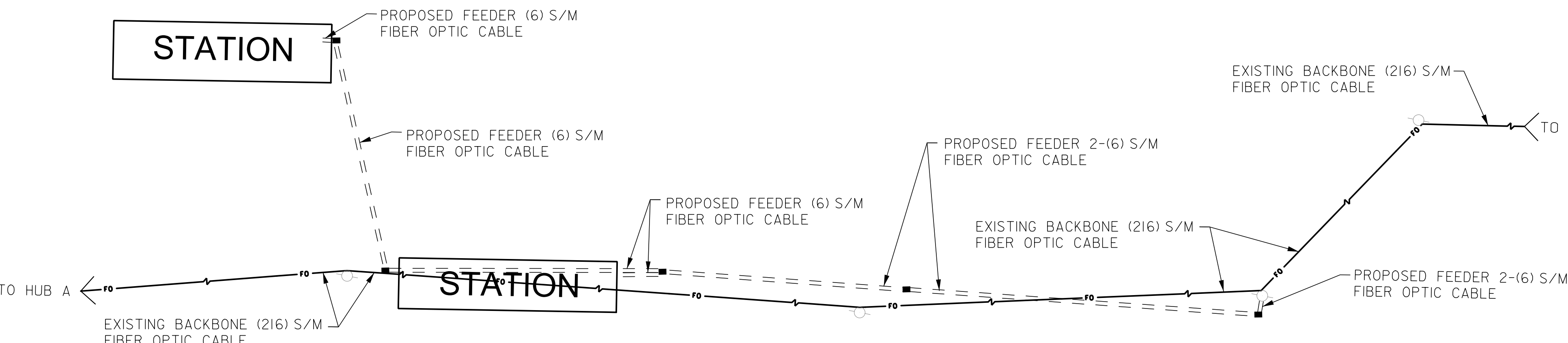
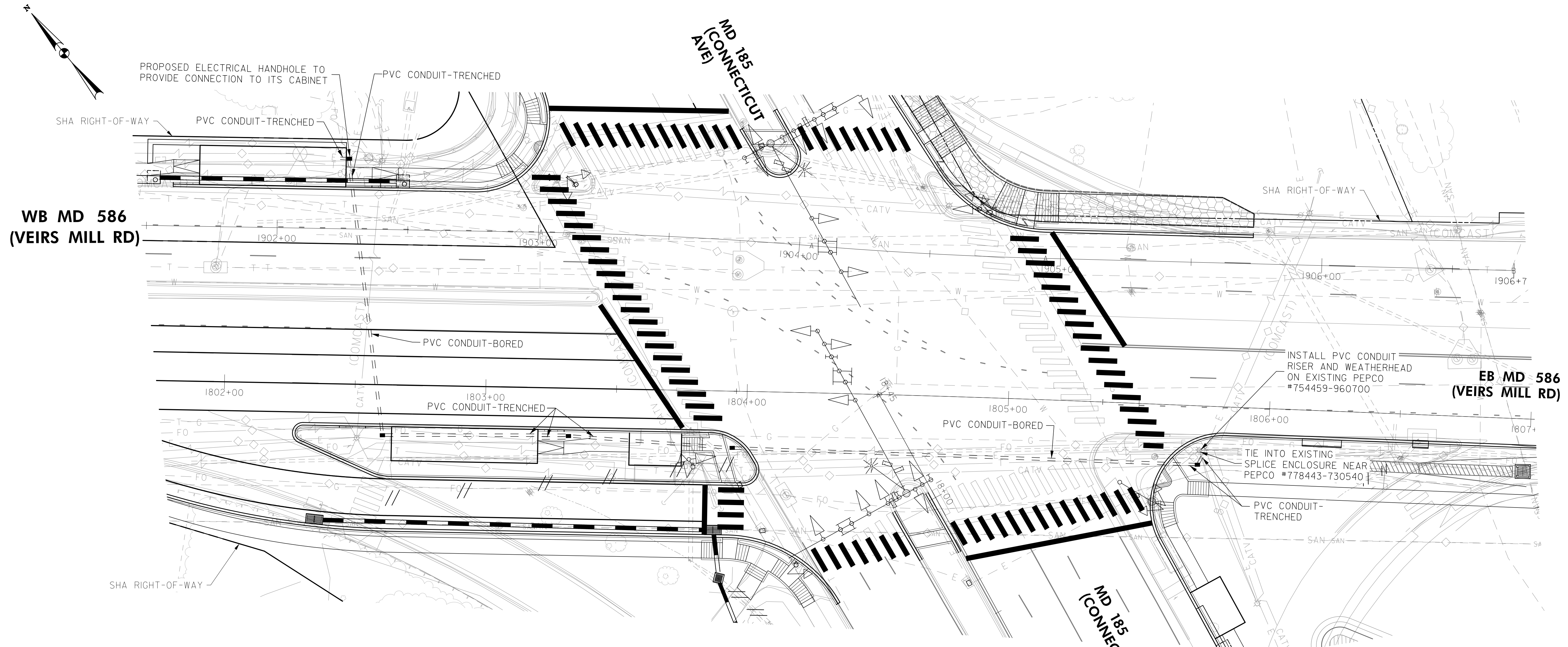
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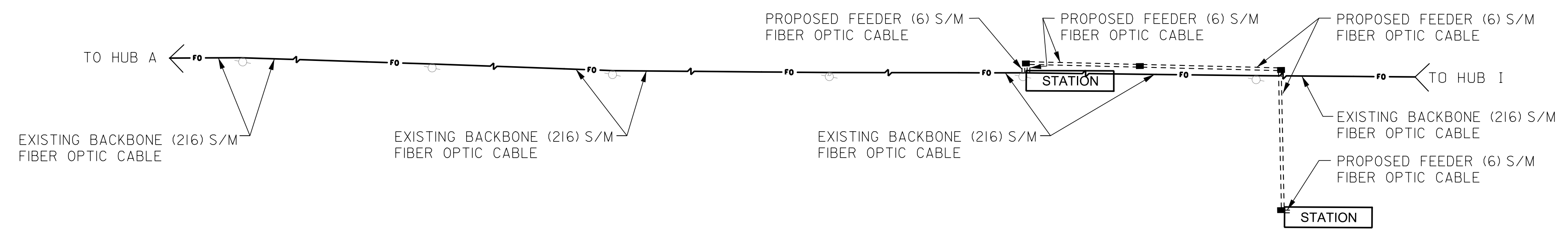
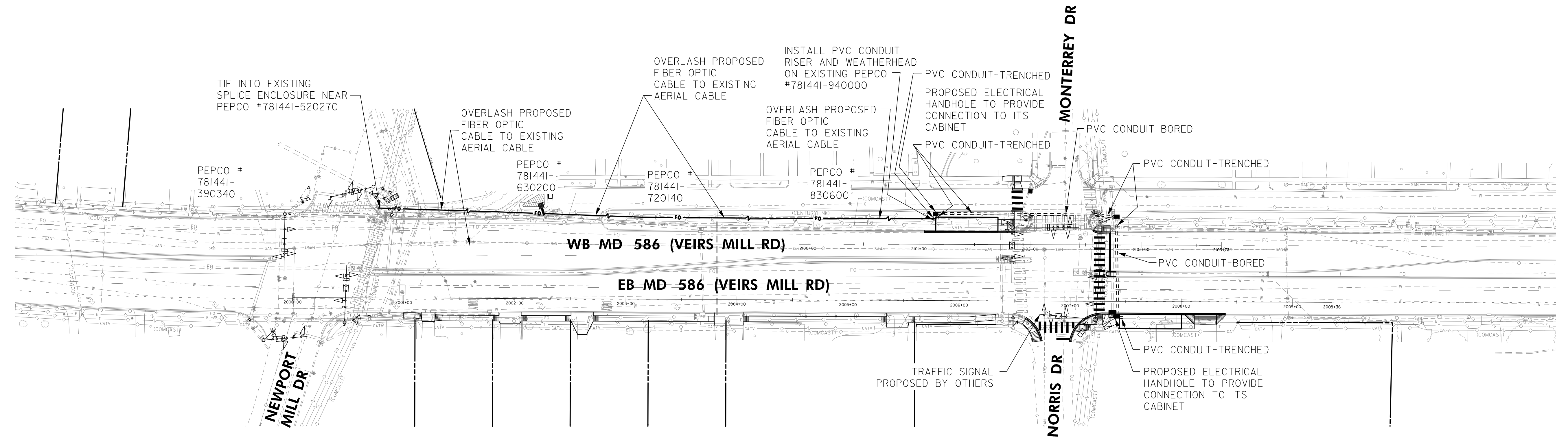
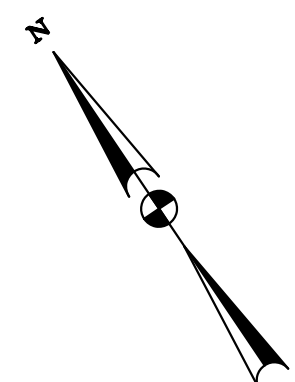
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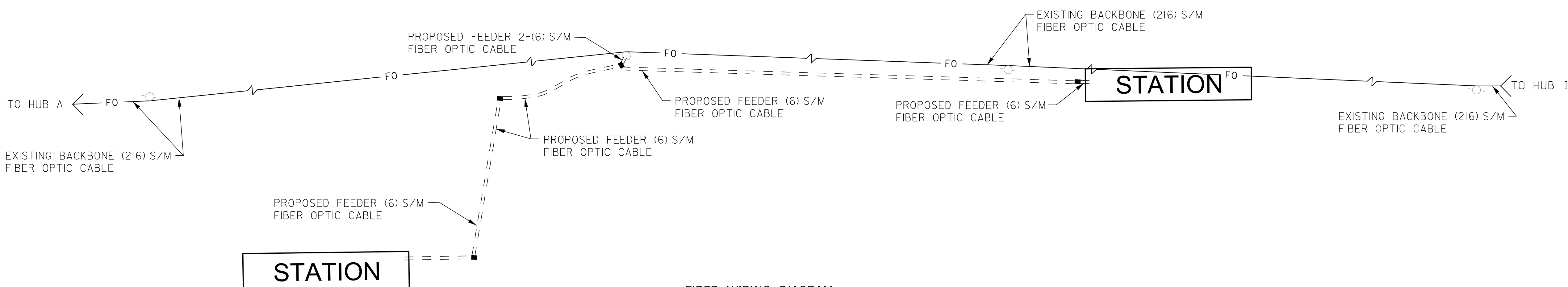
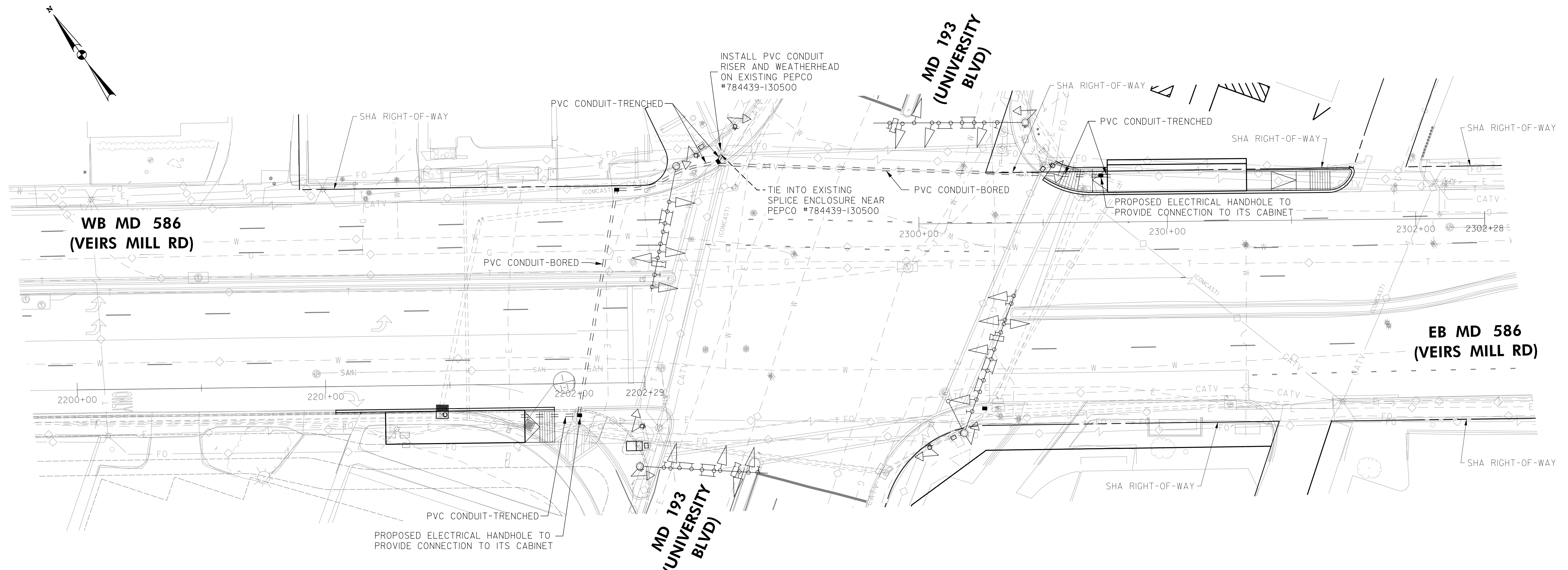
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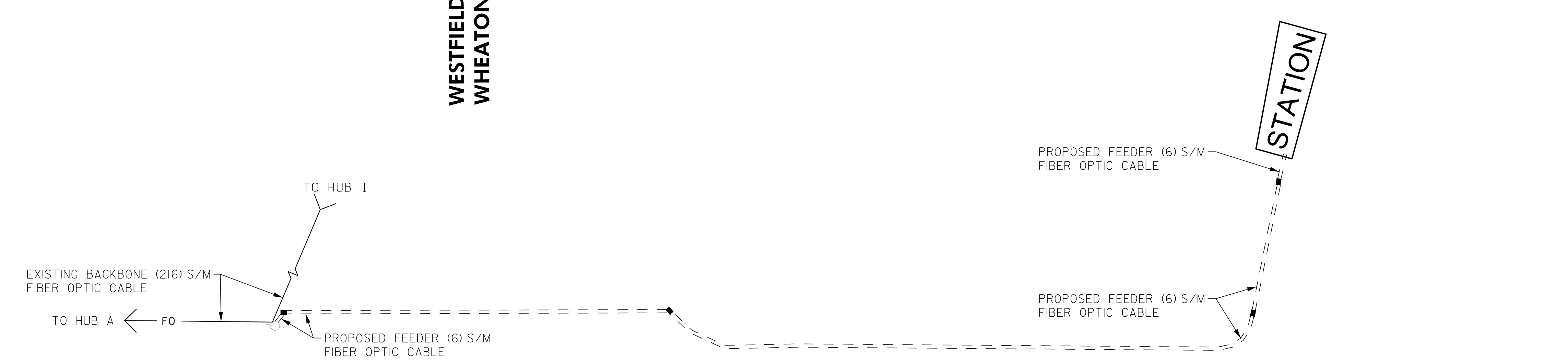
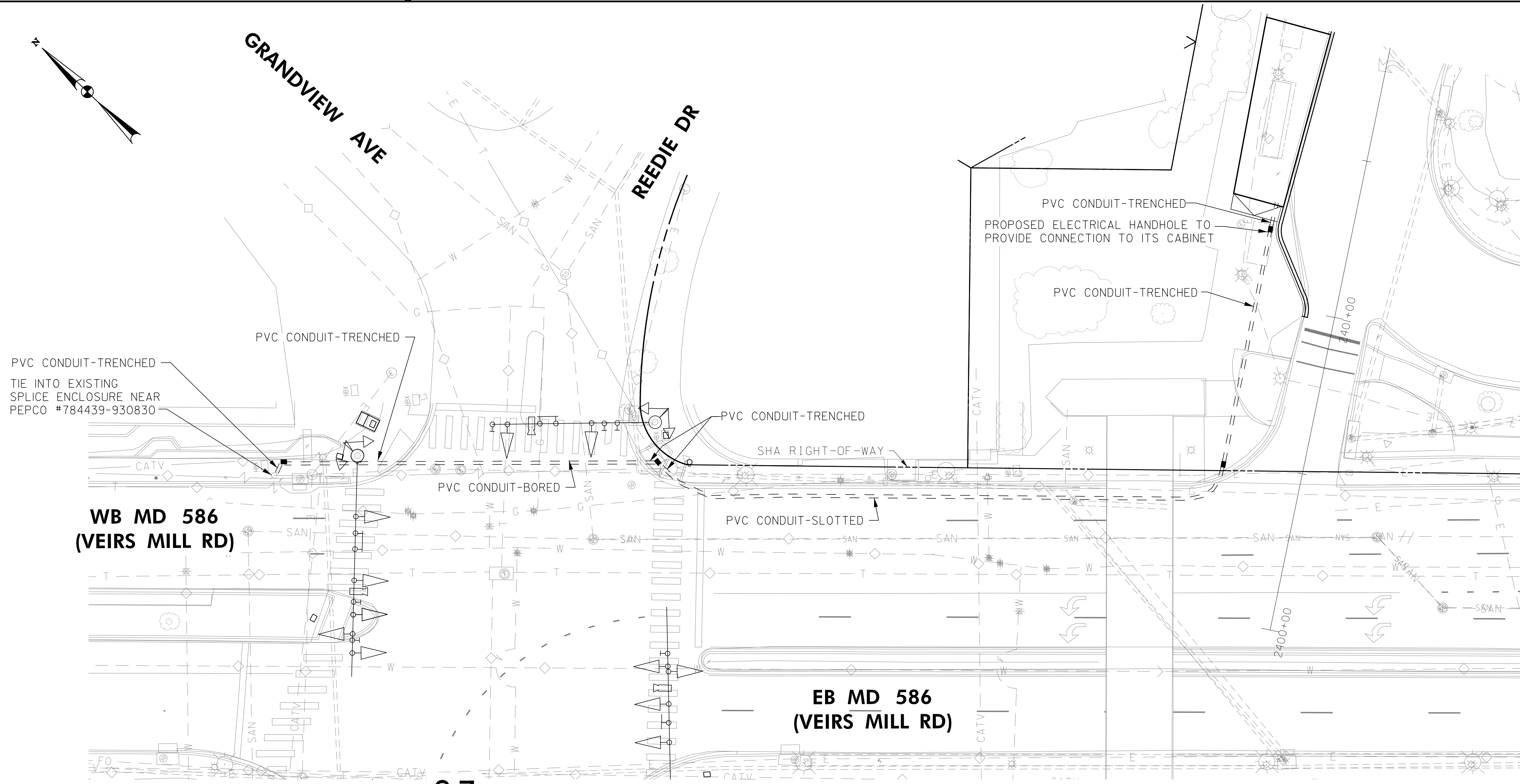
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# MONTGOMERY COUNTY DEPARTMENT OF TRANSPORTATION

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5-6	DE-01 TO DE-02	ROADWAY AND PAVEMENT DETAILS
7-8	GS-01 TO GS-02	GEOMETRY SHEETS
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35-37	LT-01 TO LT-03	LIGHTING PLANS
38-49	TS-01 TO TS-12	TREE SAVING PLANS
50	GR-01	EARTHWORK AND GRADING TABLE

# MD 586 (VEIRS MILL ROAD) BIKE AND PEDESTRIAN PRIORITY AREA – WESTERN SECTOR

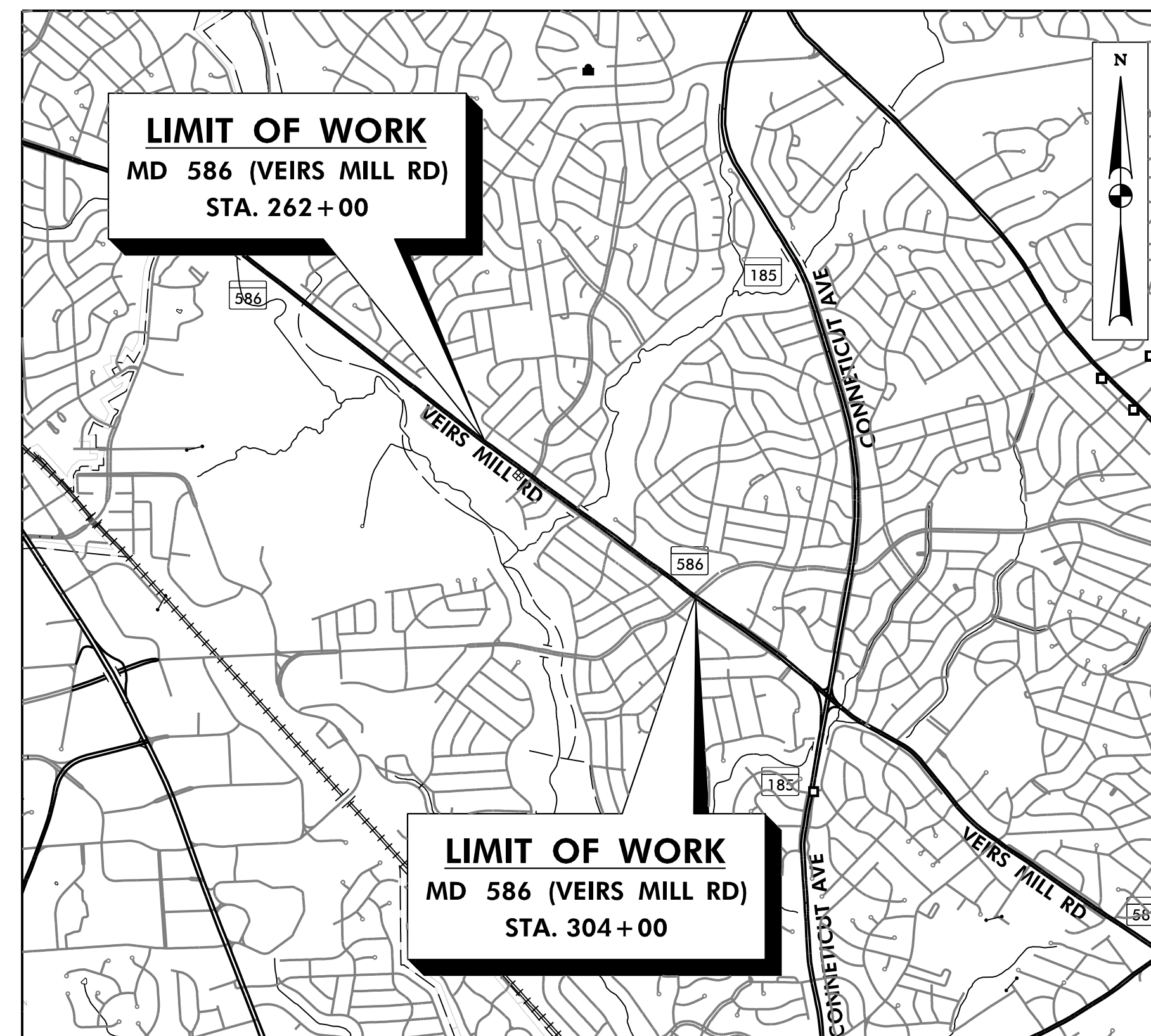
## C.I.P. CONTRACT NO. 502003

### 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 M-NCPPC PROPERTY AT THEIR EXPENSE. ALL UTILITIES SHOWN ON THE PLANS ARE PROVIDED FOR INFORMATION ONLY AND SHALL BE CONSIDERED APPROXIMATE. M-NCPPC 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.

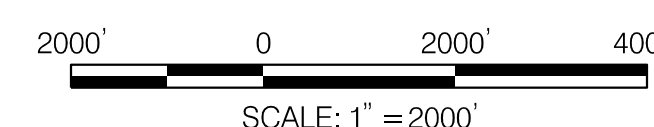
DESIGN DESIGNATION	
ROADWAY	MD 586
ROADWAY LENGTH (MILES)	0.80
CONTROLS YEARS	-
AVERAGE DAILY TRAFFIC (A.D.T.)	-
DESIGN HOURLY VOLUME (D.H.V.)	-
DIRECTIONAL DISTRIBUTION	-
% TRUCKS (A.D.T.)	-
% TRUCKS (D.H.V.)	-
FUNCTIONAL CLASSIFICATION	PRINCIPAL ARTERIAL
CONTROL OF ACCESS	NONE
INTENSITY OF DEVELOPMENT	URBAN
TERRAIN	ROLLING
DESIGN SPEED (M. P. H.)	35 MPH
ANTICIPATED POSTED SPEED (M. P. H.)	35 MPH



MONTGOMERY COUNTY

LENGTH OF PROJECT:  
MD RTE. 586 = 0.80 MILES

HORIZONTAL DATUM	NAD 83 /91
VERTICAL DATUM	NAVD 88



**35% DESIGN REVIEW**  
**JUNE 27, 2022**  
**NOT FOR CONSTRUCTION**

RELATED REQUIRED PERMITS					
To be completed by the consultant and placed on the first sheet of the Sediment Control/Stormwater Management plan set for all projects					
IT IS THE RESPONSIBILITY OF PERMITTEE/OWNER OF THIS SITE TO OBTAIN ALL REQUIRED PERMITS PRIOR TO ISSUANCE OF THE APPROVED SEDIMENT CONTROL PERMIT:					
TYPE OF PERMIT	REQ'D	NOT REQ'D	PERMIT NO.	EXPIRATION DATE	WORK RESTRICTION DATES
MCDPS Floodplain district		X			
WATERWAYS/WETLAND(S)	X				
a. Corps of Engineers					
b. MDE	X				
c. MDE Water Quality Certification		X			
MDE Dam Safety		X			
*DPS Roadside Trees Protection Plan	X				
NPDES NOTICE OF INTENT	X				
FEMA LOMR (Required post construction)		X			
OTHERS (Please List):					
MNCPPC Park Construction Permit		X			
WSSC	X				
Montgomery County Tree Canopy Conservation Law Approval	X				

\*A copy of the approved Roadside Trees Protection Plan must be delivered to the sediment control inspector at the preconstruction meeting

MONTGOMERY COUNTY DEPARTMENT OF PERMITTING SERVICES APPROVED FOR:		NOTE: MCDPS APPROVAL DOES NOT NEGATE THE NEED OF A MCDPS ACCESS PERMIT
STORMWATER MANAGEMENT	SEDIMENT CONTROL TECHNICAL REQUIREMENTS:	ADMINISTRATIVE REQUIREMENTS:
REVIEWED _____ DATE _____	REVIEWED _____ DATE _____	REVIEWED _____ DATE _____
APPROVED _____ DATE _____	APPROVED _____ DATE _____	SEDIMENT CONTROL PERMIT NO. _____
S.M. FILE NO. _____		MCDPS APPROVAL OF THIS PLAN WILL EXPIRE ONE YEAR FROM THE DATE OF APPROVAL IF THE PROJECT HAS NOT STARTED, UNLESS THE PERMIT HAS BEEN EXTENDED.
DPS approval of a sediment control or stormwater management plan is for demonstrated compliance with minimum environmental runoff treatment standards and does not create or imply any right to divert or concentrate runoff onto any adjacent property without that property owner's permission. It does not relieve the design engineer or other responsible person of professional liability or ethical responsibility for the adequacy of the drainage design as it affects uphill or downhill properties.		

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SEAL: 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. XXXXX, EXPIRATION DATE: XXXX/XXXX

OWNER/ADDRESS:  
MONTGOMERY COUNTY  
DEPARTMENT OF TRANSPORTATION  
100 EDISON PARK DRIVE  
GAITHERSBURG, MARYLAND

CONTACT:  
DIVISION OF TRANSPORTATION  
ENGINEERING  
240-777-7220  
DESIGN SECTION  
240-777-7221

MONTGOMERY COUNTY  
DEPARTMENT OF TRANSPORTATION  
ROCKVILLE, MARYLAND

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Chief, Transportation Planning and Design Section

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Chief, Division of Transportation Engineering

MONTGOMERY COUNTY  
DEPARTMENT OF TRANSPORTATION  
DIVISION OF TRANSPORTATION ENGINEERING  
MD 586 (VEIRS MILL RD) BIKE AND PEDESTRIAN  
PRIORITY AREA – WESTERN SECTOR

TITLE SHEET

SCALE 1"=2000' DATE JUNE 2022

CONTRACT NO. 502003 SHEET NO. 1 OF 50

**ABBREVIATIONS**

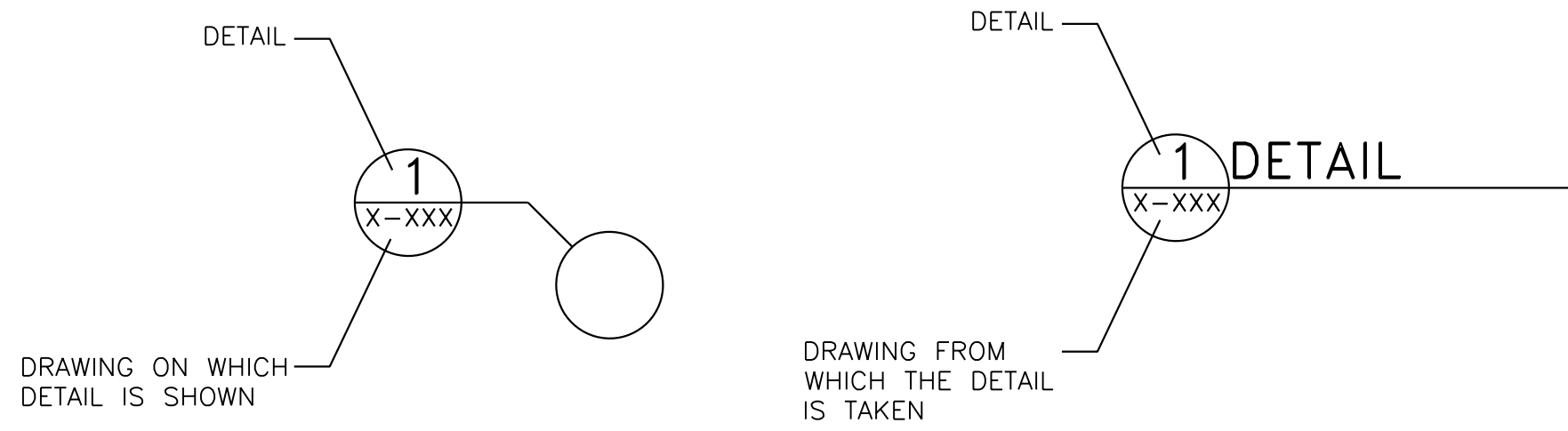
A.A.S.H.T.O... American Association of State Highway Transportation Officials	IN ..... Inch	S ..... South
AC ..... Acre	I.S.T..... Inlet Sediment Trap	SAN..... Sanitary Sewer
ADT..... Average Daily Traffic	INV..... Invert	SB or SB..... Southbound
AHD..... Ahead	J.B..... Junction Box	S.D..... Storm Drain
APPROX..... Approximate	K ..... K Inlet	S.D.D..... Surface Drain Ditch
BL or BL..... Baseline	LN..... Lane	SE ..... Super Elevation
BK..... Back / Book	L ..... Length	SF ..... Silt Fence
BIT..... Bituminous	L.F..... Linear Feet	S.F..... Square Feet
B.C..... Bituminous Concrete	L.L..... Liquid Limit	SHT..... Sheet
B.M..... Bench Mark	L.P..... Light Pole	S.P.P..... Structural Plate Pipe
BLVD..... Boulevard	LT..... Left	S.P.T..... Standard Penetration Testing
BOT..... Bottom	MAC..... Macadam	SSD..... Stopping Sight Distance
C.C..... Center of Curve	MD..... Maryland	SSF..... Super Silt Fence
CATV..... Cable Television	M.C..... Moisture Content	STD..... Standard
C.B.R..... California Bearing Ratio	MAX..... Maximum	STA..... Station
C or CL..... Centerline	M.D.D..... Maximum Dry Content	ST ..... Street
QIR ..... Circle	MOD..... Modified	SO ..... Single Opening
CL..... Class	MIN..... Minimum	S.Y..... Square Yards
CLF..... Chainlink Fence	N ..... North	SWM..... Stormwater Management
CMP..... Corrugated Metal Pipe	N.B. or NB..... Northbound	T..... Tangent
C.O..... Cleanout	N.E..... Northeast	T..... Telephone
COMB..... Combination	N.P..... Non-Plastic	T/C ..... Top of Curb
CONC..... Concrete	O.C..... On Center	T.C..... Top of Cover
CONSTR..... Construction	OHE..... Overhead Electric	T.G..... Top of Grate
COR..... Corner	O.M..... Optimum Moisture	T or TL..... Traverse Line
CORR..... Correction	PAV'T..... Pavement	T.M..... Top of Manhole
DC..... Degree of Curve	P.C..... Point of Curvature	TRAV..... Traverse
D.H.V..... Design Hourly Volume	P.C.C..... Point of Compound Curvature	TS ..... Temporary Swale
D.I..... Drop Inlet	P.C..... Point of Crown	T.S..... Top of Slab
DIA..... Diameter	PGE..... Profile Grade Elevation	T.S..... Topsoil
D.O..... Double Opening	P.G.L..... Profile Grade Line	TYP..... Typical
DR..... Drive	P/GL..... Profile Ground Line	U.D..... Under Drain
DS..... Design Speed	PR..... Point of Rotation	U.G..... Underground
DWS..... Detectable Warning Surface	P.I..... Plasticity Index	U.P..... Utility Pole
E ..... East	P.I..... Point of Intersection	U.S.D.A. United States Department of Agriculture
E ..... Electric	P.O.C..... Point On Curve	VCL ..... Vertical Clearance
E ..... External Distance	P.O.T..... Point On Tangent	V.C.L..... Vertical Curve Length
EA..... Each	PROP..... Proposed	W..... Water
E.B..... Eastbound	P.R.C..... Point of Reverse Curve	W ..... West
ELEV..... Elevation	PT..... Point	W ..... Westbound
E.R.C.C.P..... Elliptical Reinforced Concrete Pipe	P.T..... Point of Tangency	W.B..... Wetland Buffer
ES ..... End Section	P.V.C..... Point of Vertical Curve	W.M..... Water Meter
ESDV..... Runoff Volume	PVC..... Polyvinyl Chloride	W.S..... Wrapped Steel
EX. or EXIST..... Existing	PVI..... Point of Vertical Intersection	W.V..... Water Valve
FT..... Feet	PVRC..... Point of Vertical Reverse Curve	WWF..... Welded Wire Mesh
F or FL..... Flowline	PVT..... Point of Vertical Tangency	
F.B.D..... Flat Bottom Ditch	R ..... Radius	
F.H..... Fire Hydrant	RD..... Road	
FWD..... Forward	R.F..... Rock Fragments	
FC..... Face of Curb	RT..... Right	
G ..... Gas	RW or RW... Right of Way	
G.V..... Gas Valve	R.C.P..... Reinforced Concrete Pipe	
GAB..... Graded Aggregate Base	R.C.C.P..... Reinforced Cement Concrete Pipe	
H.B..... Handbox	RET..... Retaining	
H.D.P..... High Density Polyethylene	R.Q.D..... Rock Quality Designation	
HDWL..... Headwall	R.M..... Rootmat	
H.E.R.C.P..... Horizontal Elliptical Reinforced Concrete Pipe		
HLSD..... Headlight Sight Distance		
H.P..... High Point		

**CONVENTIONAL SYMBOLS**

PROPOSED MEDIAN BARRIER		PROPOSED PIPE / CULVERT	
ELECTRICAL HAND BOX - SIGNALS		EXISTING PIPE / CULVERT	
DITCH FLOW LINE		EXISTING DROP INLET	
STATE, COUNTY OR CITY LINES		UTILITY POLE	
PROPOSED TRAFFIC BARRIER		WETLAND BOUNDARY	
EXISTING TRAFFIC BARRIER		WETLAND BUFFER	
PROPOSED FENCE LINE		WATERS OF THE U.S.	
EXISTING FENCE LINE		STREAMS	
RIGHT OF WAY LINE		HEDGE / TREE LINE	
EXISTING ROADWAY		BUSH / TREE	
RAILROAD		CONIFEROUS TREE	
BASE LINE OR SURVEY LINE		GROUND ELEVATION	
FIRE HYDRANT		GRADE ELEVATION	
HISTORIC DISTRICT BOUNDRY		PROPOSED RETAINING WALL	
UTILITY TEST HOLE TARGET			
DRILLED SHAFT LOCATION			

**GENERAL NOTES**

- ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE MARYLAND STATE HIGHWAY ADMINISTRATION'S STANDARD SPECIFICATIONS FOR CONSTRUCTION AND MATERIALS 2018 AND BOOK OF STANDARDS FOR HIGHWAYS & INCIDENTAL STRUCTURES, THE MONTGOMERY COUNTY DEPARTMENT OF TRANSPORTATION STANDARDS, AND THE MARYLAND MUTCD.
- HORIZONTAL DATUM IS BASED ON NAD 83/2011 AND VERTICAL DATUM IS BASED ON NAVD 88.
- ALL UTILITY RELOCATIONS SHALL BE PERFORMED BY OTHERS. IT IS THE CONTRACTOR'S RESPONSIBILITY TO COORDINATE WITH UTILITY OWNERS TO ENSURE PENDING UTILITY RELOCATIONS DO NOT AFFECT THE SCHEDULE'S CRITICAL PATH.
- CALL "MISS UTILITY" AT 1-800-257-7777, 48 HOURS PRIOR TO THE START OF WORK. THE EXCAVATOR MUST NOTIFY ALL PUBLIC UTILITY COMPANIES WITH UNDER GROUND FACILITIES IN THE AREA OF PROPOSED EXCAVATION AND HAVE THOSE FACILITIES LOCATED BY THE UTILITY COMPANIES PRIOR TO COMMENCING EXCAVATION. THE EXCAVATOR IS RESPONSIBLE FOR COMPLIANCE WITH REQUIREMENTS OF CHAPTER 36A OF THE MONTGOMERY COUNTY CODE.
- INFORMATION CONCERNING UNDERGROUND UTILITIES WAS OBTAINED FROM AVAILABLE RECORDS AND UTILITY DESIGNATING, BUT THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATIONS AND ELEVATIONS OF THE LINES BY DIGGING TEST PITS BY HAND OR VACUUM EXCAVATIONS/ SOFT DIG METHODS AT ALL UTILITY CROSSINGS, WELL IN ADVANCE OF TRENCHING. IF CLEARANCES ARE LESS THAN TWELVE (12) INCHES, CONTACT MONTGOMERY COUNTY DEPARTMENT OF TRANSPORTATION'S PROJECT INSPECTOR AND THE APPROPRIATE UTILITY OWNER BEFORE PROCEEDING WITH CONSTRUCTION.
- REPAIRS TO UTILITIES OR PROPERTY DAMAGE AS A RESULT OF THE CONTRACTOR'S NEGLIGENCE OR METHOD OF OPERATION SHALL BE MADE AT THE CONTRACTOR'S EXPENSE BEFORE PROCEEDING WITH CONSTRUCTION.
- GRADING SHALL BE DONE IN SUCH A MANNER AS TO PROVIDE POSITIVE DRAINAGE.
- SAW CUTS WILL NOT BE MEASURED BUT WILL BE INCIDENTAL TO OTHER RELATED ITEMS AS SPECIFIED IN THE CONTRACT DOCUMENTS.
- THE CONTRACTOR SHALL MAINTAIN PEDESTRIAN AND VEHICULAR ACCESS TO ALL PROPERTIES WITHIN THE PROJECT LIMITS AND SHALL COORDINATE WITH PROPERTY OWNERS TO MAINTAIN INGRESS/EGRESS DURING THE ENTIRE PERIOD OF CONSTRUCTION.
- REFER TO THE CONTRACT DOCUMENTS FOR ROADWAY BORING, SOIL BORING, AND INFILTRATION TESTING DATA SHEETS.
- RIGHT OF WAY LINES SHOWN ON THE PLANS ARE SURVEYED METES AND BOUNDS PROPERTY LINES. FOR RIGHT OF WAY ACQUISITIONS PLEASE SEE APPROPRIATE RIGHT OF WAY PLAT.
- CONTRACTOR SHALL COORDINATE RELOCATION OF ALL EXISTING BUS STOPS WITH WAYNE MILLER, MCDOT DIVISION OF TRANSIT SERVICES AT 240-777-5836.
- EXISTING CURB AND GUTTER AND SIDEWALK WITHIN THE LOD, NOT SHOWN AS REPLACEMENT ON THE CV DRAWINGS, IS NOT INTENDED TO BE DISTURBED AND REPLACED AS PART OF THE PROJECT. CONTRACTOR SHOULD EXERCISE CAUTION TO NOT DAMAGE CURB AND SIDEWALK. DAMAGE BEYOND WHAT IS SHOWN AS REPLACEMENT IN THE CV DRAWINGS SHALL BE REPLACED BY THE CONTRACTOR AT THE CONTRACTOR'S OWN EXPENSE. CONTINGENCIES HAVE BEEN INCLUDED FOR MINIMAL ADDITIONAL DISTURBANCE TO THESE ITEMS.



DWG. AB-01

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 FILE: \\vkk\kccm\1\A\Draw\Projects\2020\20077\_MCDOT\Temp\Task\_4 - BiPPA\_Veirs Mill\Civil\Plans\CDN-1000\_MCDOT\BPPA.dgn

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 DESIGN SECTION  
 240-777-7221

NO.	REVISION	DATE	BY

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 ROCKVILLE, MARYLAND

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 Chief, Transportation Planning and Design Section

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 Chief, Division of Transportation Engineering

DESIGNED BY AF DRAWN BY IM CHECKED BY CJB

MONTGOMERY COUNTY  
 DEPARTMENT OF TRANSPORTATION  
 DIVISION OF TRANSPORTATION ENGINEERING

MD 586 (VEIRS MILL RD) BIKE AND PEDESTRIAN  
 PRIORITY AREA - WESTERN SECTOR

GENERAL NOTES, ABBREVIATIONS & SYMBOLS

SCALE NONE DATE JUNE 2022

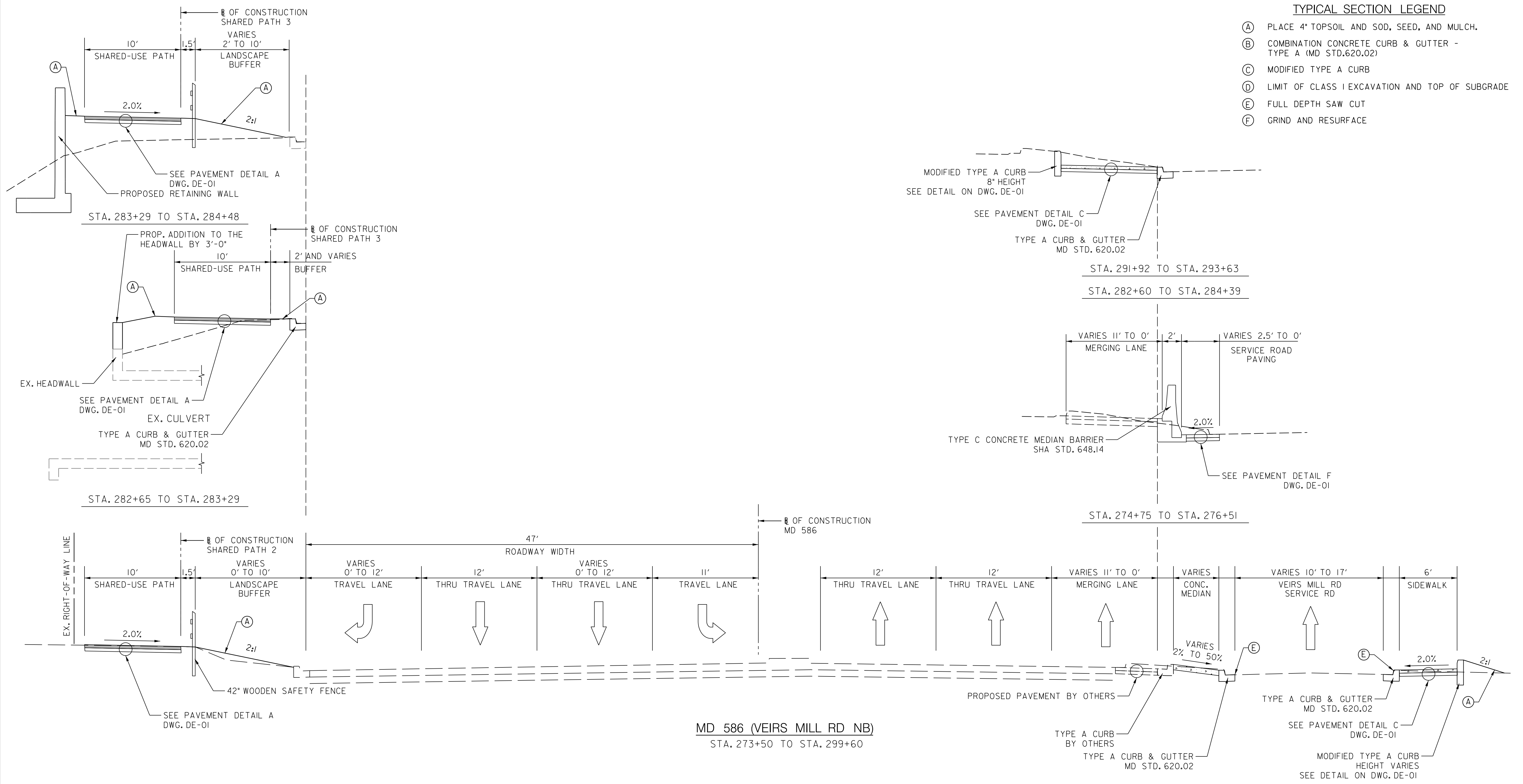
CONTRACT NO. 502003 SHEET NO. 2 OF 50





TYPICAL SECTION LEGEND

- (A) PLACE 4" TOPSOIL AND SOD, SEED, AND MULCH.
- (B) COMBINATION CONCRETE CURB & GUTTER - TYPE A (MD STD.620.02)
- (C) MODIFIED TYPE A CURB
- (D) LIMIT OF CLASS I EXCAVATION AND TOP OF SUBGRADE
- (E) FULL DEPTH SAW CUT
- (F) GRIND AND RESURFACE



MD 586 (VEIRS MILL RD NB)  
STA. 273+50 TO STA. 299+60

PLOTTER: 6/26/2022  
 FILE: \\rkk.com\1\A\Users\jg\Projects\2020\20077\_MCDOT\Temp\Task\_4 - BiPPA\_Veirs Mill\Civil\Plans\Part-3002\_MCD586BPA.dgn

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MD 586 (VEIRS MILL RD) BIKE AND PEDESTRIAN  
 PRIORITY AREA - WESTERN SECTOR

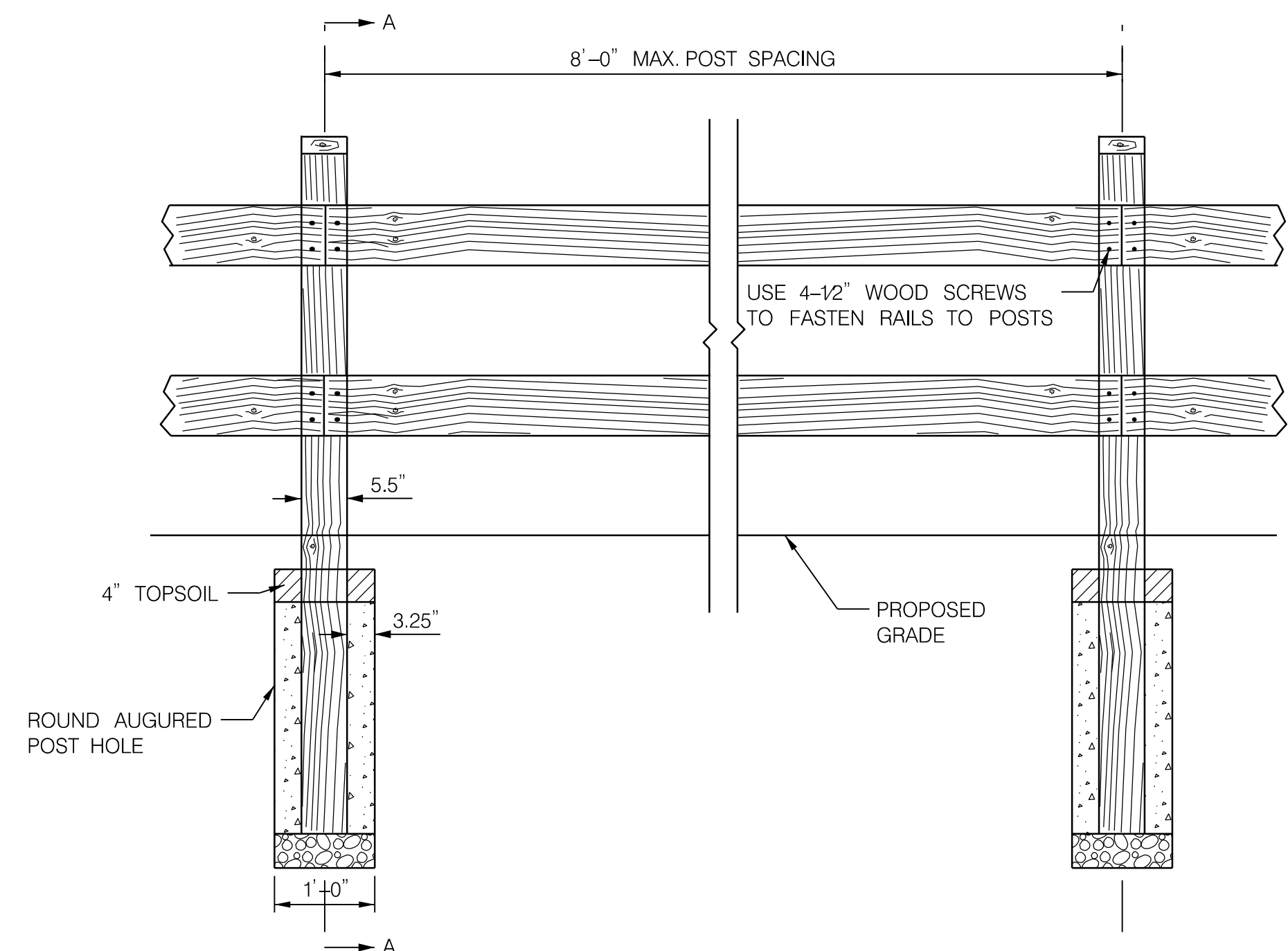
TYPICAL SECTIONS

SCALE 1"=5' DATE JUNE 2022

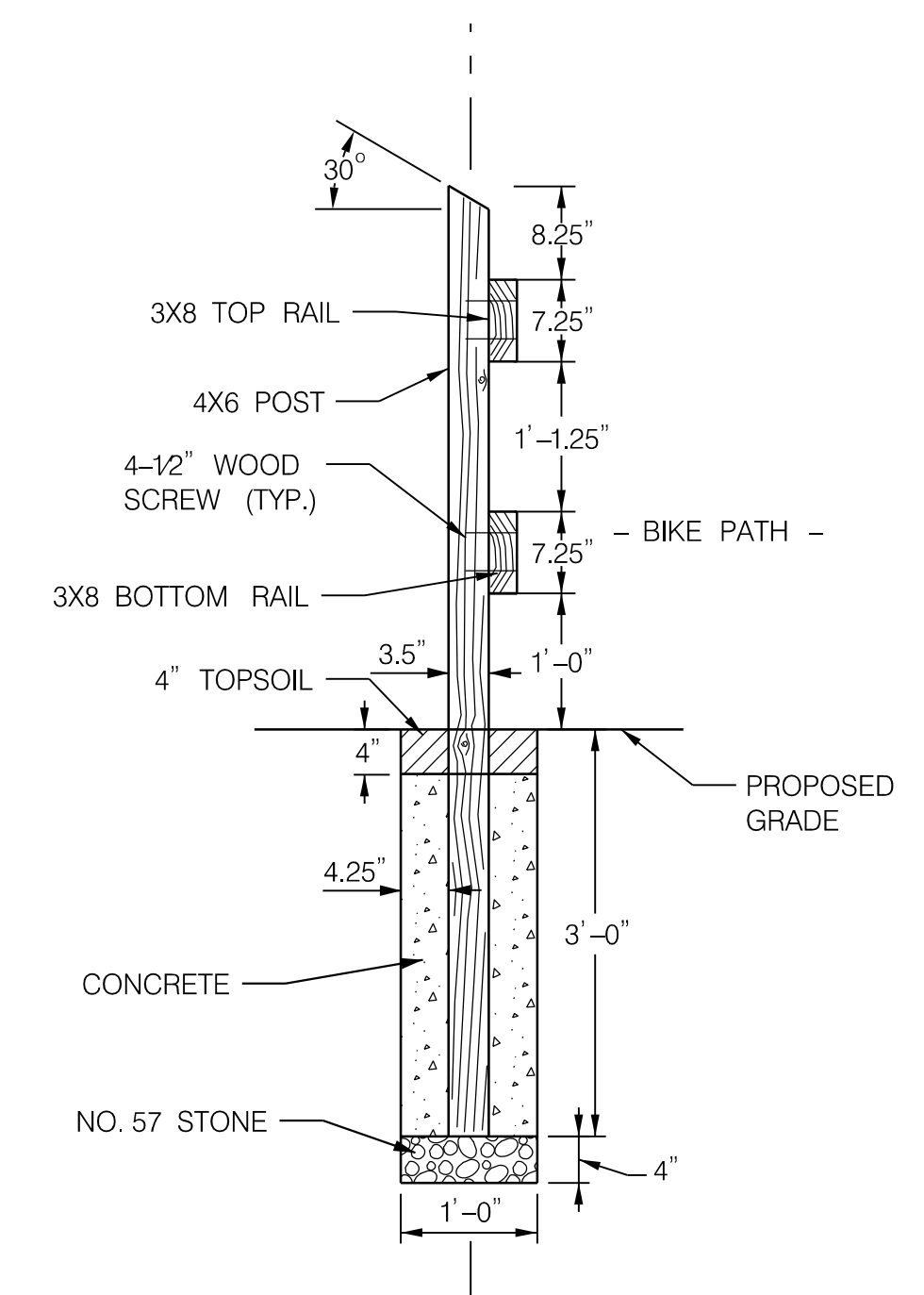
CONTRACT NO. 502003 SHEET NO. 4 OF 50

DWG. HT-02

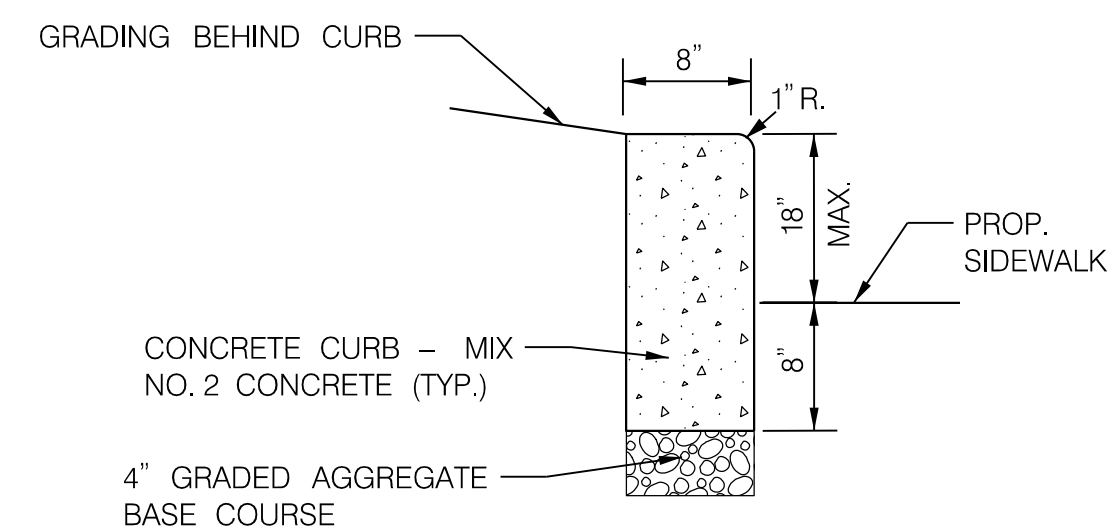




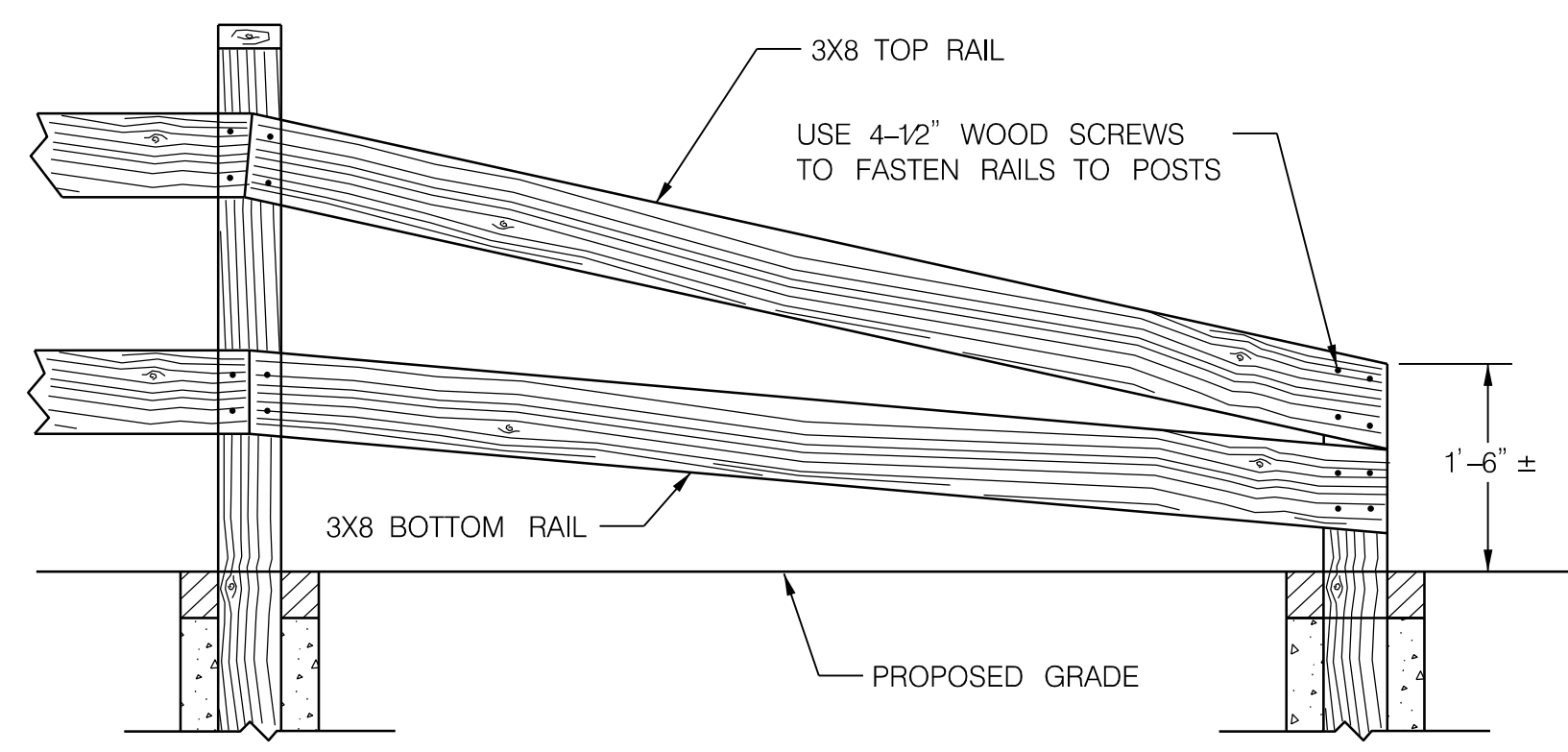
STANDARD FENCE FRONT



STANDARD FENCE SECTION A-A



1 MODIFIED TYPE A CURB  
DE-02 NOT TO SCALE



END SECTION FRONT

- NOTES:
- 1) ALL HARDWARE TO BE EXTERIOR GRADE CORROSION RESISTANT, HOT-DIPPED GALVANIZED STEEL.
  - 2) ALL SCREWS ARE TO BE COUNTER SUNK AND PRE-DRILLED.
  - 3) ALL LUMBER SHALL BE PRESERVATIVE-TREATED.
  - 4) REFER TO TRAIL PLAN FOR FENCE LOCATION AND OFFSET FROM EDGE OF TRAIL.
  - 5) RAILS SHALL BE PARALLEL TO THE LONGITUDINAL GRADE OF THE TRAIL POSTS SHALL BE SET 90° FROM HORIZONTAL, REGARDLESS OF THE LONGITUDINAL GRADE.

2 42" SAFETY FENCE  
DE-02 NOT TO SCALE

DWG. DE-02

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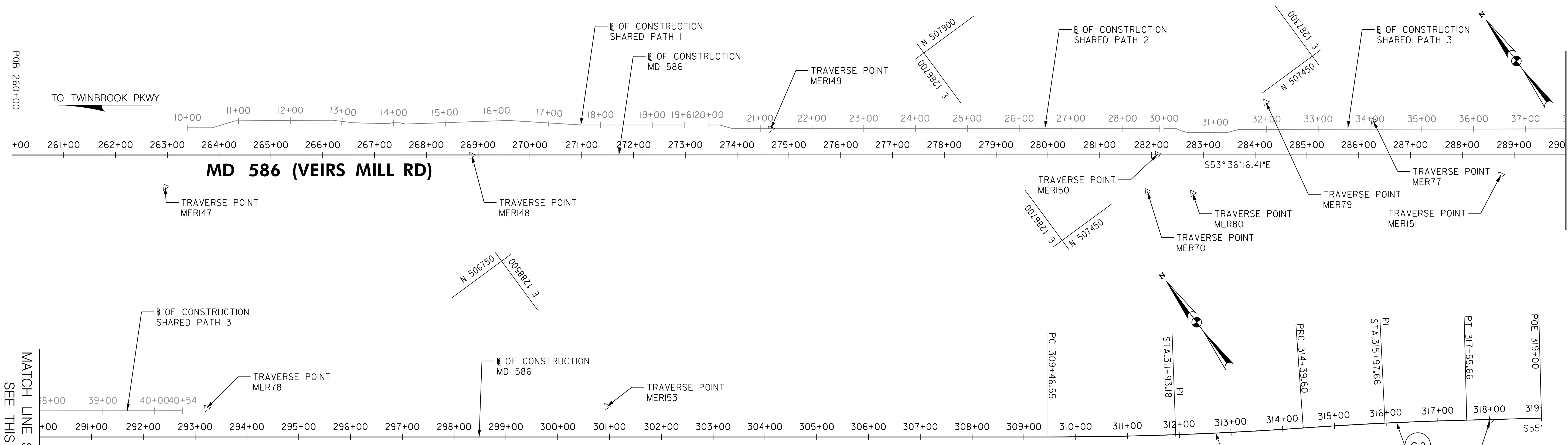
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 Chief, Transportation Planning and Design Section Date \_\_\_\_\_

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MONTGOMERY COUNTY  
 DEPARTMENT OF TRANSPORTATION  
 DIVISION OF TRANSPORTATION ENGINEERING  
 MD 586 (VEIRS MILL RD) BIKE AND PEDESTRIAN  
 PRIORITY AREA - WESTERN SECTOR  
 ROADWAY AND PAVEMENT DETAILS  
 SCALE NONE DATE JUNE 2022  
 CONTRACT NO. 502003 SHEET NO. 6 OF 50



MATCH LINE STA. 290+00  
SEE THIS SHEET

MATCH LINE STA. 290+00  
SEE THIS SHEET

BASELINE CONTROL COORDINATES					
BASELINE	POINT NO.	STATION	NORTH	EAST	BEARING
MD 586 (VEIRS MILL RD)	PT	257 + 98.50	508,905.3323	1,285,003.7063	S 53° 36' 16.41" E
	PC	309 + 46.55	505,850.7105	1,289,147.5846	
	PI	311 + 93.18	505,704.3721	1,289,346.1063	S 57° 38' 24.92" E
	PRC	314 + 39.60	505,572.3681	1,289,554.4347	
	PI	315 + 97.66	505,487.7713	1,289,687.9451	S 55° 03' 11.83" E
	PT	317 + 55.66	505,397.2346	1,289,817.5012	

TRAVERSE CONTROL				
TRAV PT.	NORTHING	EASTING	ELEVATION	DESCRIPTION
MER75	505,891.8906	1,288,774.4720	365.68	TRAV
MER76	505,784.1100	1,288,506.1785	346.44	TRAV
MER77	507,279.7336	1,287,320.5105	288.58	TRAV
MER78	506,859.4045	1,287,873.4185	314.23	TRAV
MER79	507,431.3467	1,287,873.4185	256.26	TRAV
MER80	507,373.8463	1,286,956.8630	253.11	TRAV
MER147	508,560.8339	1,285,367.5581	256.30	TRAV
MER148	508,258.2811	1,285,880.1289	276.01	TRAV
MER149	507,957.2460	1,286,375.1312	294.48	TRAV
MER150	507,474.1683	1,286,946.7945	254.79	TRAV
MER151	507,049.0929	1,287,456.7724	296.31	TRAV
MER152	506,683.3027	1,287,951.1967	323.77	TRAV
MER153	506,403.3791	1,288,496.9842	357.53	TRAV
MER154	505,966.0048	1,288,894.6233	373.60	TRAV
MER155	505,661.6875	1,289,338.5442	369.47	TRAV
MER156	505,369.3488	1,289,853.0953	339.26	TRAV

CURVE DATA						
CURVE	DELTA	Dc	RADIUS	TANGENT	LENGTH	EXTERNAL
C-1	4° 02' 08.52" LT.	0° 49' 06.64"	7000.00	246.63'	493.05'	4.34'
C-2	2° 35' 13.09" RT.	0° 49' 06.64"	7000.00	158.06'	316.06'	1.78'

PLOTTER: 6/16/2022  
FILE: \\rkk\csm\1\Chen\Projects\2020\20077\_MD07\Temp\Task\_4 - BiPPA\_Veirs Mill\Cad\Plans\GS-01\_MCS88BPPA.dgn

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ROCKVILLE, MARYLAND

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Chief, Transportation Planning and Design Section

APPROVED  
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Chief, Division of Transportation Engineering

DESIGNED BY \_\_\_AF\_\_\_ DRAWN BY \_\_\_TM\_\_\_ CHECKED BY \_\_\_CJB\_\_\_

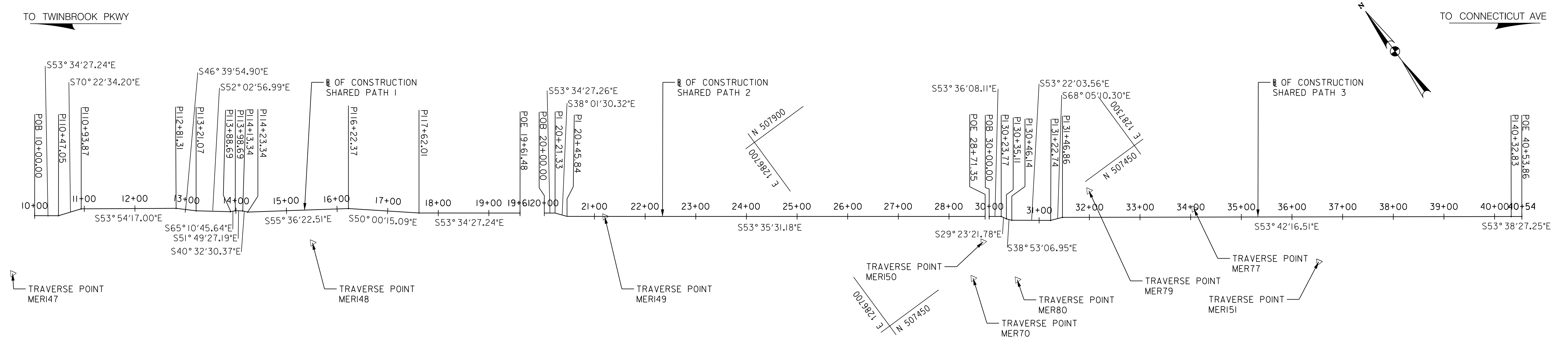
MONTGOMERY COUNTY  
DEPARTMENT OF TRANSPORTATION  
DIVISION OF TRANSPORTATION ENGINEERING  
MD 586 (VEIRS MILL RD) BIKE AND PEDESTRIAN  
PRIORITY AREA - WESTERN SECTOR

**GEOMETRY SHEET**

SCALE 1"=100' DATE JUNE 2022

CONTRACT NO. 502003 SHEET NO. 7 OF 50

DWG. GS-01



BASELINE CONTROL COORDINATES					
BASELINE	POINT NO.	STATION	NORTH	EAST	BEARING
SHARED PATH 1	POB	10+00.00	508,626.8445	1,285,470.3506	
	PI	10+47.05		1,285,508.2074	S53°34'27.24\"
	PI	10+93.87	508,583.1836	1,285,552.3081	S70°22'34.20\"
	PI	12+81.31	508,472.7548	1,285,703.7699	S53°54'17.00\"
	PI	13+21.07	508,445.4680	1,285,732.6908	S46°39'54.90\"
	PI	13+88.69	508,403.8826	1,285,786.0120	S52°02'56.99\"
	PI	13+98.69	508,399.6848	1,285,795.0882	S65°10'45.64\"
	PI	14+13.34	508,390.6344	1,285,806.5993	S51°49'27.19\"
	PI	14+23.34	508,383.0350	1,285,813.0993	S40°32'30.37\"
	PI	16+22.37	508,270.6045	1,285,977.3385	S55°36'22.51\"
	PI	17+62.01	508,180.8562	1,286,084.3122	S50°00'15.09\"
POE	19+61.48	508,062.4153	1,286,244.8104	S53°34'27.24\"	
SHARED PATH 2	POB	20+00.00	508,033.9938	1,286,283.3240	
	PI	20+21.33	508,021.3263	1,286,300.4897	S53°34'27.26\"
	PI	20+45.84	508,002.0205	1,286,315.5866	S38°01'30.32\"
	POE	28+71.35	507,512.0533	1,286,979.9676	S53°35'31.18\"
SHARED PATH 3	POB	30+00.00	507,507.3552	1,286,986.3460	
	PI	30+23.77	507,493.2507	1,287,005.4783	S53°36'08.11\"
	PI	30+35.11	507,483.3737	1,287,011.0413	S29°23'21.78\"
	PI	30+46.14	507,474.7865	1,287,017.9667	S38°53'06.95\"
	PI	31+22.74	507,429.0779	1,287,079.4409	S53°22'03.56\"
	PI	31+46.86	507,420.0761	1,287,101.8180	S68°05'10.30\"
	PI	40+32.83	506,895.6271	1,287,815.8885	S53°42'16.51\"
	POE	40+53.86	506,883.1618	1,287,832.8214	S53°38'27.25\"

TRAVERSE CONTROL				
TRAV PT.	NORTHING	EASTING	ELEVATION	DESCRIPTION
MER77	507,279.7336	1,287,320.5105	288.58	TRAV
MER79	507,431.3467	1,287,174.8642	256.26	TRAV
MER80	507,373.8463	1,286,956.8630	253.11	TRAV
MER147	508,560.8339	1,285,367.5581	256.30	TRAV
MER148	508,258.2811	1,285,880.1289	276.01	TRAV
MER149	507,957.2460	1,286,375.1312	294.48	TRAV
MER150	507,474.1683	1,286,946.7945	254.79	TRAV
MER151	507,049.0929	1,287,456.7724	296.31	TRAV

P:\ATTEN\_64952629  
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 240-777-7220  
 DESIGN SECTION  
 240-777-7221

NO.	REVISION	DATE	BY

MONTGOMERY COUNTY  
 DEPARTMENT OF TRANSPORTATION  
 ROCKVILLE, MARYLAND

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 Chief, Transportation Planning and Design Section Date \_\_\_\_\_

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 Chief, Division of Transportation Engineering Date \_\_\_\_\_

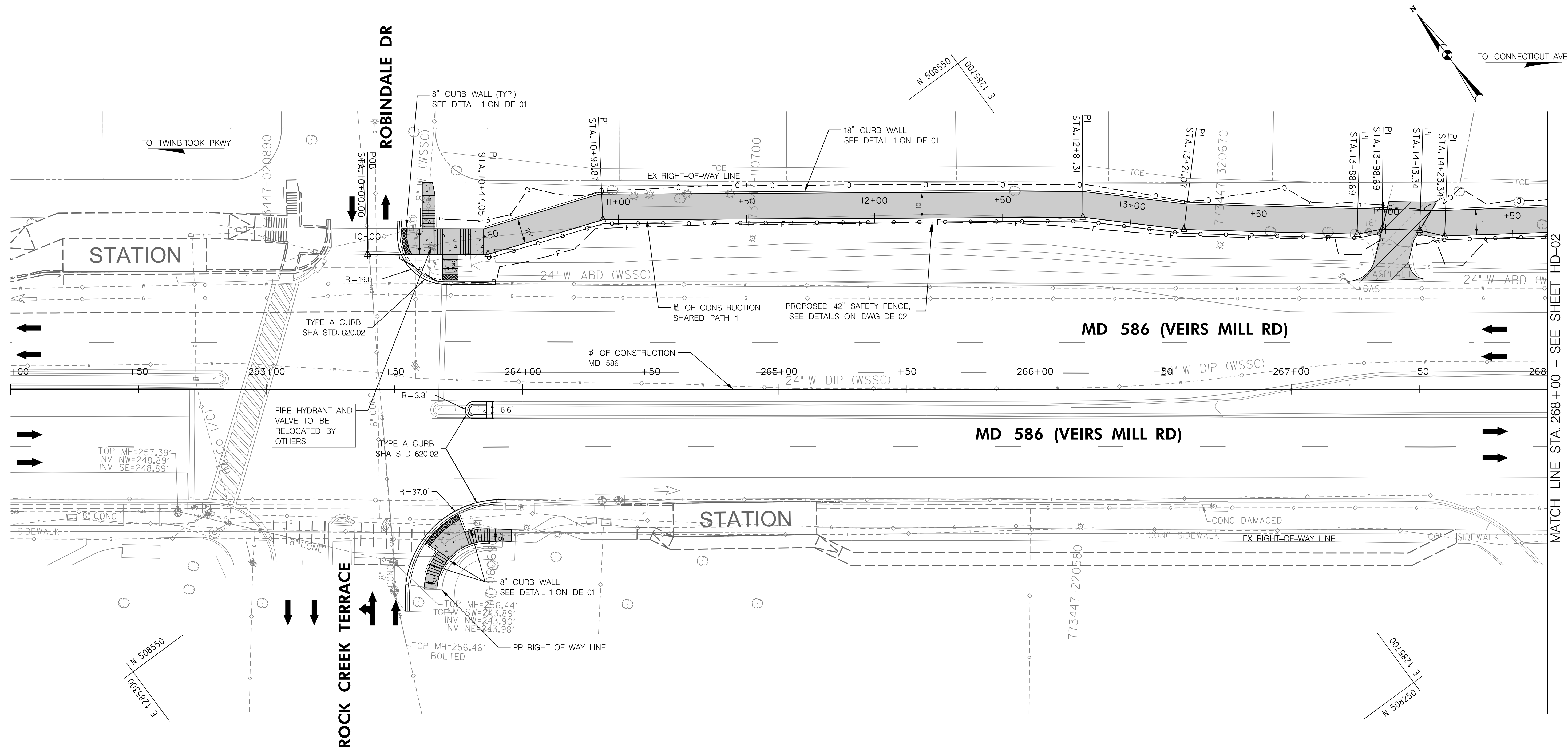
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 DIVISION OF TRANSPORTATION ENGINEERING  
 MD 586 (VEIRS MILL RD) BIKE AND PEDESTRIAN  
 PRIORITY AREA - WESTERN SECTOR  
**GEOMETRY SHEET**




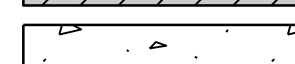

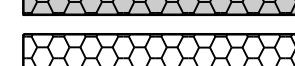
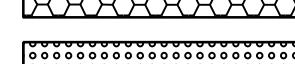
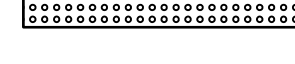

SCALE 1"=100' DATE JUNE 2022

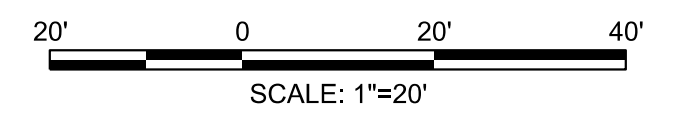
CONTRACT NO. 502003 SHEET NO. 8 OF 50

DWG. GS-02



**LEGEND**

-  ASPHALT SHARED USE PATH
-  CONCRETE SIDEWALK
-  ASPHALT DRIVEWAY
-  CONCRETE DRIVEWAY
-  PERVIOUS ASPHALT SHARED USE PATH
-  PERVIOUS CONCRETE SIDEWALK
-  DETECTABLE WARNING SURFACE
-  PROPOSED BRT IMPROVEMENTS
-  IMPROVEMENTS BY OTHERS



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 DIVISION OF TRANSPORTATION ENGINEERING

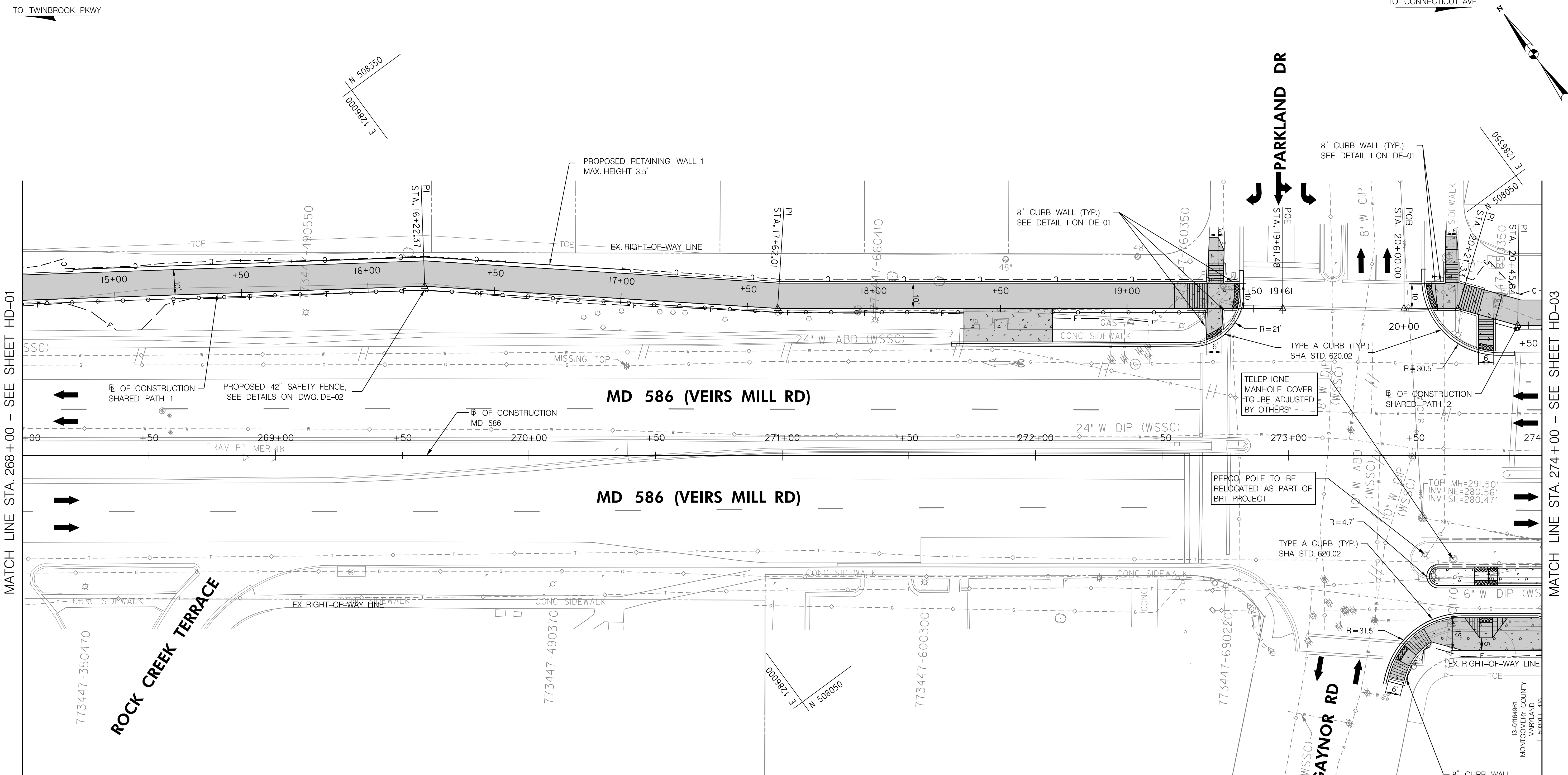
MD 586 (VEIRS MILL RD) BIKE AND PEDESTRIAN  
 PRIORITY AREA - WESTERN SECTOR

ROADWAY PLAN

SCALE 1"=20' DATE JUNE 2022

CONTRACT NO. 502003 SHEET NO. 9 OF 50

PLOTTER: 6/26/2022  
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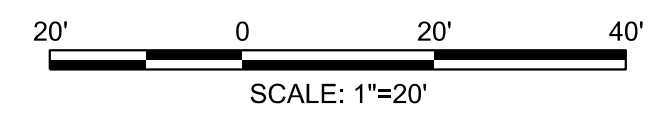


MATCH LINE STA. 268+00 - SEE SHEET HD-01

MATCH LINE STA. 274+00 - SEE SHEET HD-03

**LEGEND**

- ASPHALT SHARED USE PATH
- CONCRETE SIDEWALK
- ASPHALT DRIVEWAY
- CONCRETE DRIVEWAY
- PERVIOUS ASPHALT SHARED USE PATH
- PERVIOUS CONCRETE SIDEWALK
- DETECTABLE WARNING SURFACE
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MONTGOMERY COUNTY  
 DEPARTMENT OF TRANSPORTATION  
 DIVISION OF TRANSPORTATION ENGINEERING

MD 586 (VEIRS MILL RD) BIKE AND PEDESTRIAN  
 PRIORITY AREA - WESTERN SECTOR

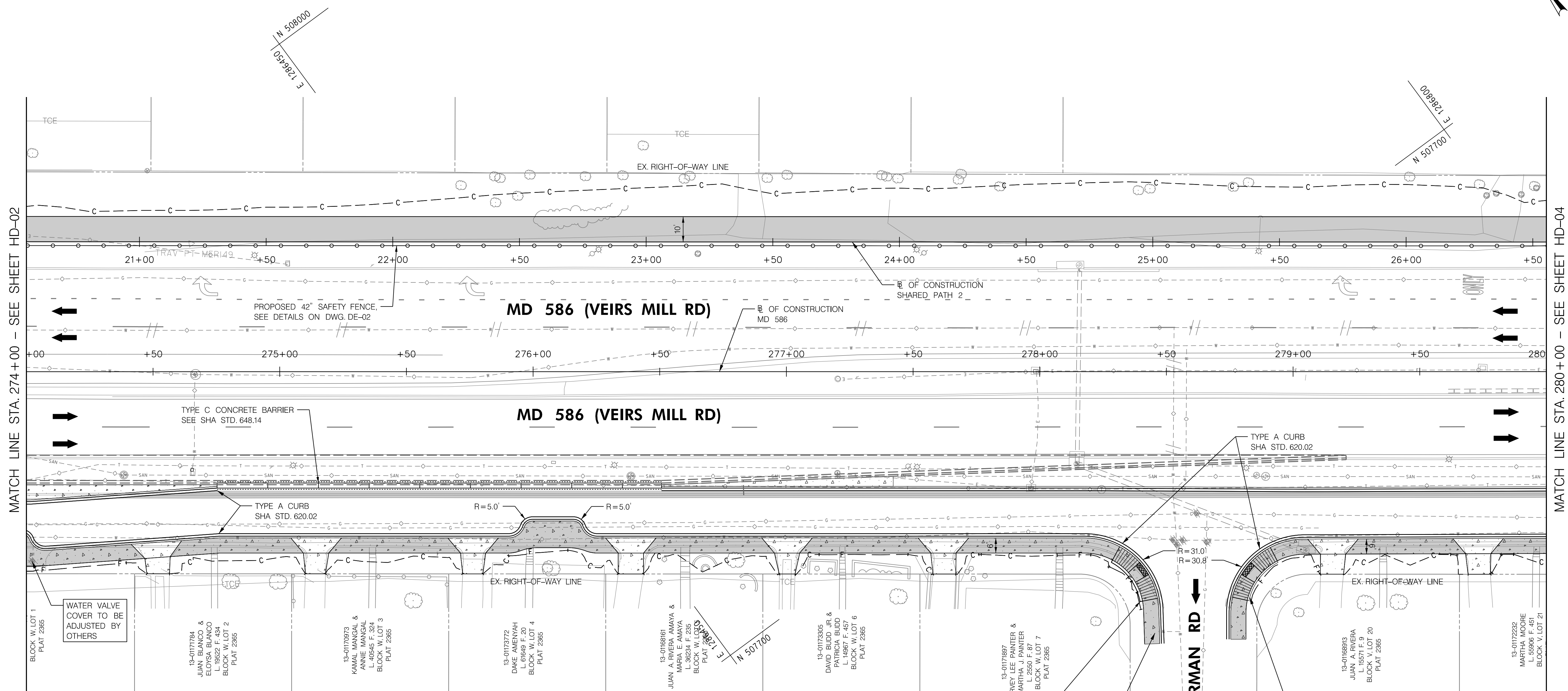
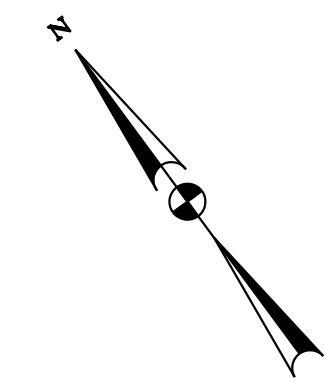
**ROADWAY PLAN**

SCALE 1"=20' DATE JUNE 2022

CONTRACT NO. 502003 SHEET NO. 10 OF 50

TO TWINBROOK PKWY

TO CONNECTICUT AVE



MATCH LINE STA. 274+00 - SEE SHEET HD-02

MATCH LINE STA. 280+00 - SEE SHEET HD-04

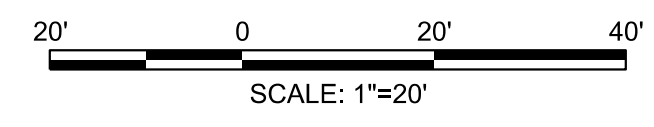
**LEGEND**

- ASPHALT SHARED USE PATH
- CONCRETE SIDEWALK
- ASPHALT DRIVEWAY
- CONCRETE DRIVEWAY
- PERVIOUS ASPHALT SHARED USE PATH
- PERVIOUS CONCRETE SIDEWALK
- DETECTABLE WARNING SURFACE
- PROPOSED BRT IMPROVEMENTS
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FIRE HYDRANT AND VALVE TO BE RELOCATED BY OTHERS



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APPROVED	SEE TITLE SHEET FOR SIGNATURE	_____	Date _____
Chief, Division of Transportation Engineering			
DESIGNED BY <u>AF</u>	DRAWN BY <u>TM</u>	CHECKED BY <u>CJB</u>	

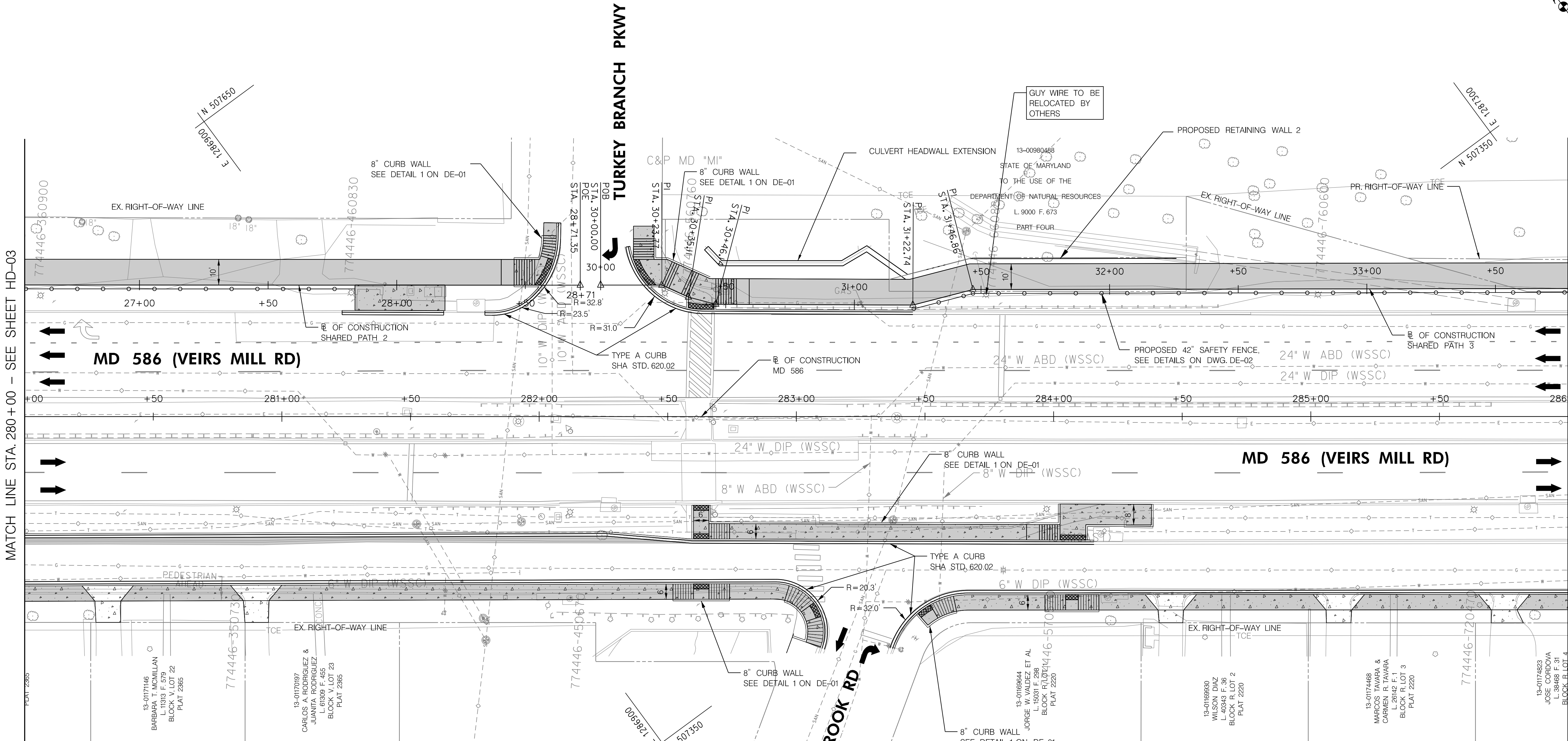
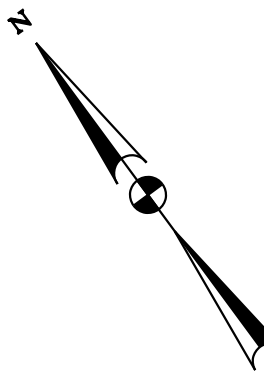
MONTGOMERY COUNTY DEPARTMENT OF TRANSPORTATION DIVISION OF TRANSPORTATION ENGINEERING	
MD 586 (VEIRS MILL RD) BIKE AND PEDESTRIAN PRIORITY AREA - WESTERN SECTOR	
<b>ROADWAY PLAN</b>	
SCALE <u>1"=20'</u>	DATE <u>JUNE 2022</u>
CONTRACT NO. 502003	SHEET NO. <u>11</u> OF <u>50</u>

PLOTTER: 6/26/2022  
 FILE: \\rkk\csm\1\A\Draw\Projects\2020\20077\_MCDOTTemp\Task\_4 - BiPPA\_Veirs Mill\Civil\Plans\450-003\_MCDOTTemp\450-003.dwg



TO TWINBROOK PKWY


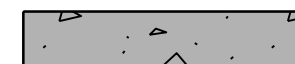

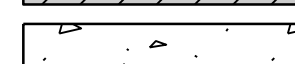
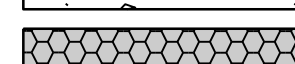
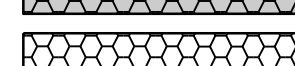
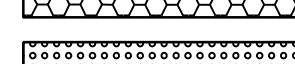
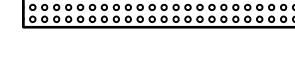

TO CONNECTICUT AVE

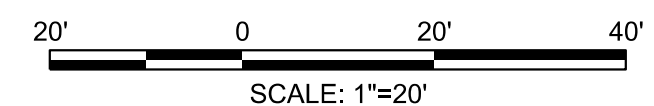


MATCH LINE STA. 280+00 - SEE SHEET HD-03

MATCH LINE STA. 286+00 - SEE SHEET HD-05

**LEGEND**

-  ASPHALT SHARED USE PATH
-  CONCRETE SIDEWALK
-  ASPHALT DRIVEWAY
-  CONCRETE DRIVEWAY
-  PERVIOUS ASPHALT SHARED USE PATH
-  PERVIOUS CONCRETE SIDEWALK
-  DETECTABLE WARNING SURFACE
-  PROPOSED BRT IMPROVEMENTS
-  IMPROVEMENTS BY OTHERS



DWG. HD-04

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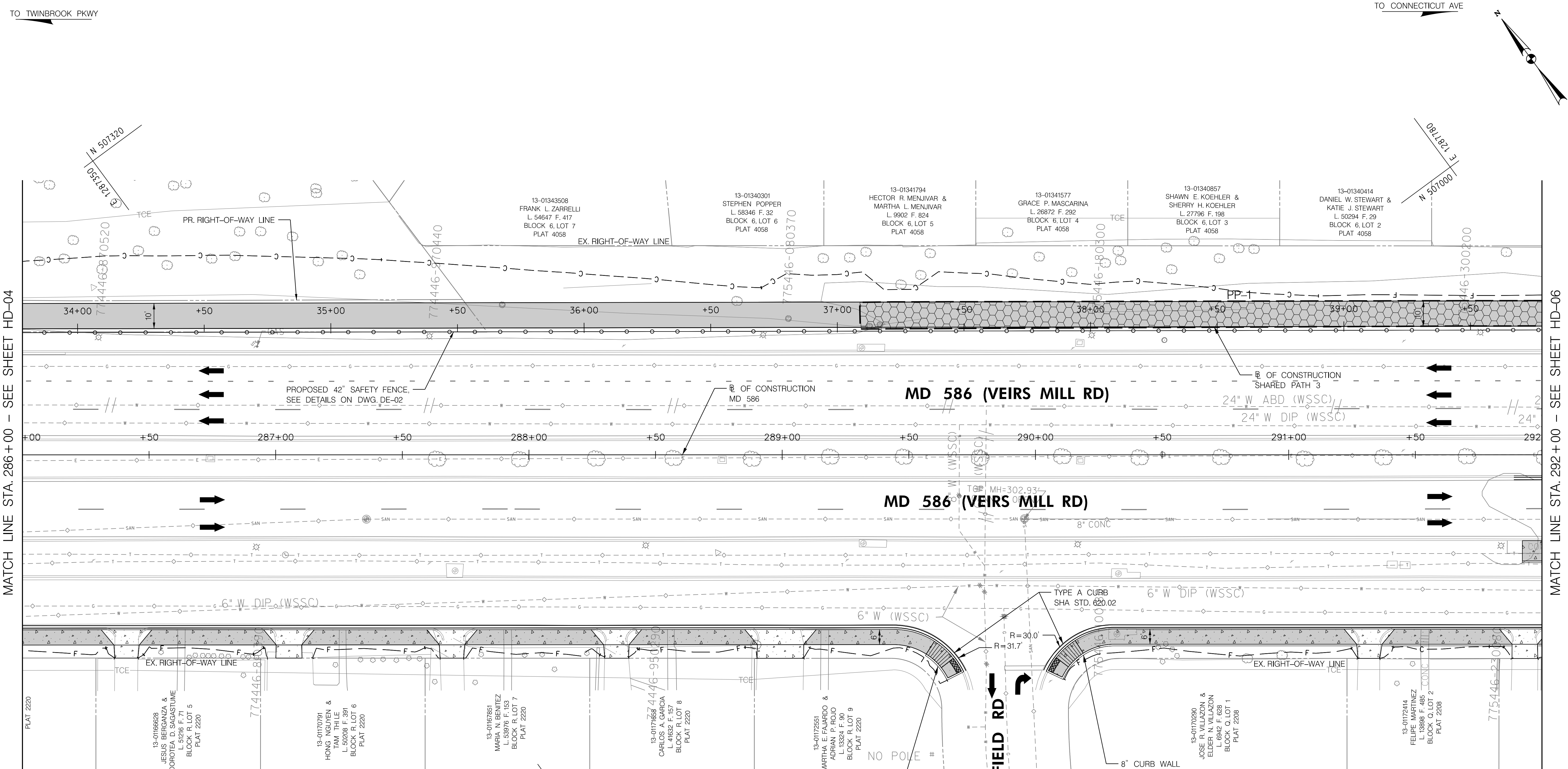
MONTGOMERY COUNTY  
 DEPARTMENT OF TRANSPORTATION  
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 SEE TITLE SHEET FOR SIGNATURE \_\_\_\_\_ Date \_\_\_\_\_  
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 Chief, Division of Transportation Engineering

MONTGOMERY COUNTY  
 DEPARTMENT OF TRANSPORTATION  
 DIVISION OF TRANSPORTATION ENGINEERING  
 MD 586 (VEIRS MILL RD) BIKE AND PEDESTRIAN  
 PRIORITY AREA - WESTERN SECTOR  
**ROADWAY PLAN**  
 SCALE 1"=20' DATE JUNE 2022  
 CONTRACT NO. 502003 SHEET NO. 12 OF 50

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MATCH LINE STA. 286+00 - SEE SHEET HD-04

MATCH LINE STA. 292+00 - SEE SHEET HD-06

**LEGEND**

- ASPHALT SHARED USE PATH
- CONCRETE SIDEWALK
- ASPHALT DRIVEWAY
- CONCRETE DRIVEWAY
- PERVIOUS ASPHALT SHARED USE PATH
- PERVIOUS CONCRETE SIDEWALK
- DETECTABLE WARNING SURFACE
- PROPOSED BRT IMPROVEMENTS
- IMPROVEMENTS BY OTHERS

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MONTGOMERY COUNTY  
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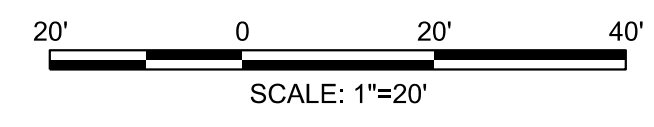
MD 586 (VEIRS MILL RD) BIKE AND PEDESTRIAN  
 PRIORITY AREA - WESTERN SECTOR

**ROADWAY PLAN**

SCALE 1"=20' DATE JUNE 2022

CONTRACT NO. 502003 SHEET NO. 13 OF 50

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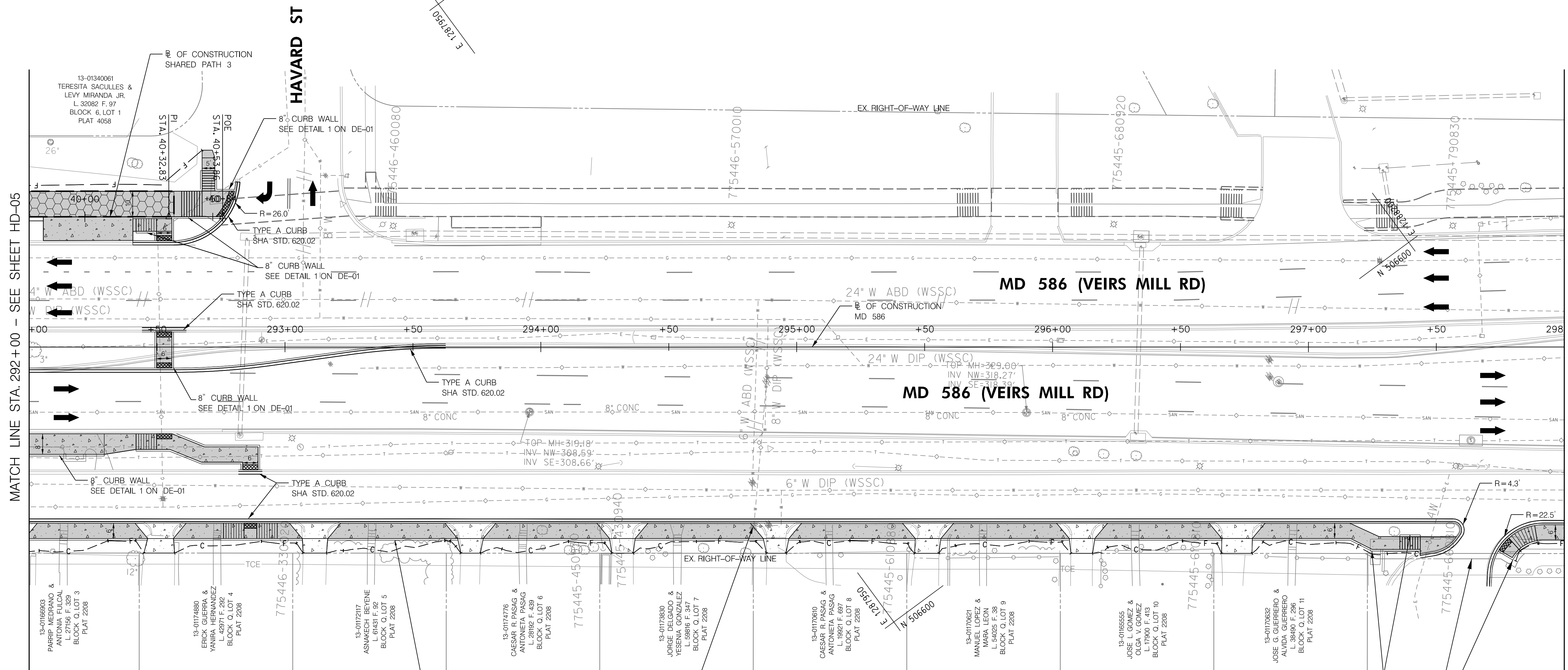
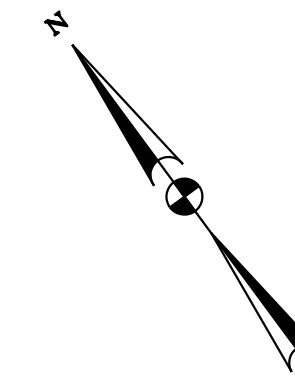


DWG. HD-05

PLOTTER: 6/29/2022  
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TO TWINBROOK PKWY

TO CONNECTICUT AVE



MATCH LINE STA. 292+00 - SEE SHEET HD-05

MATCH LINE STA. 298+00 - SEE SHEET HD-07

**LEGEND**

- ASPHALT SHARED USE PATH
- CONCRETE SIDEWALK
- ASPHALT DRIVEWAY
- CONCRETE DRIVEWAY
- PERVIOUS ASPHALT SHARED USE PATH
- PERVIOUS CONCRETE SIDEWALK
- DETECTABLE WARNING SURFACE
- PROPOSED BRT IMPROVEMENTS
- IMPROVEMENTS BY OTHERS

FIRE HYDRANT AND WATER VALVE COVER TO BE ADJUSTED



DWG. HD-06

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 Chief, Division of Transportation Engineering

MONTGOMERY COUNTY  
 DEPARTMENT OF TRANSPORTATION  
 DIVISION OF TRANSPORTATION ENGINEERING

MD 586 (VEIRS MILL RD) BIKE AND PEDESTRIAN  
 PRIORITY AREA - WESTERN SECTOR

**ROADWAY PLAN**

SCALE 1"=20' DATE JUNE 2022

CONTRACT NO. 502003 SHEET NO. 14 OF 50

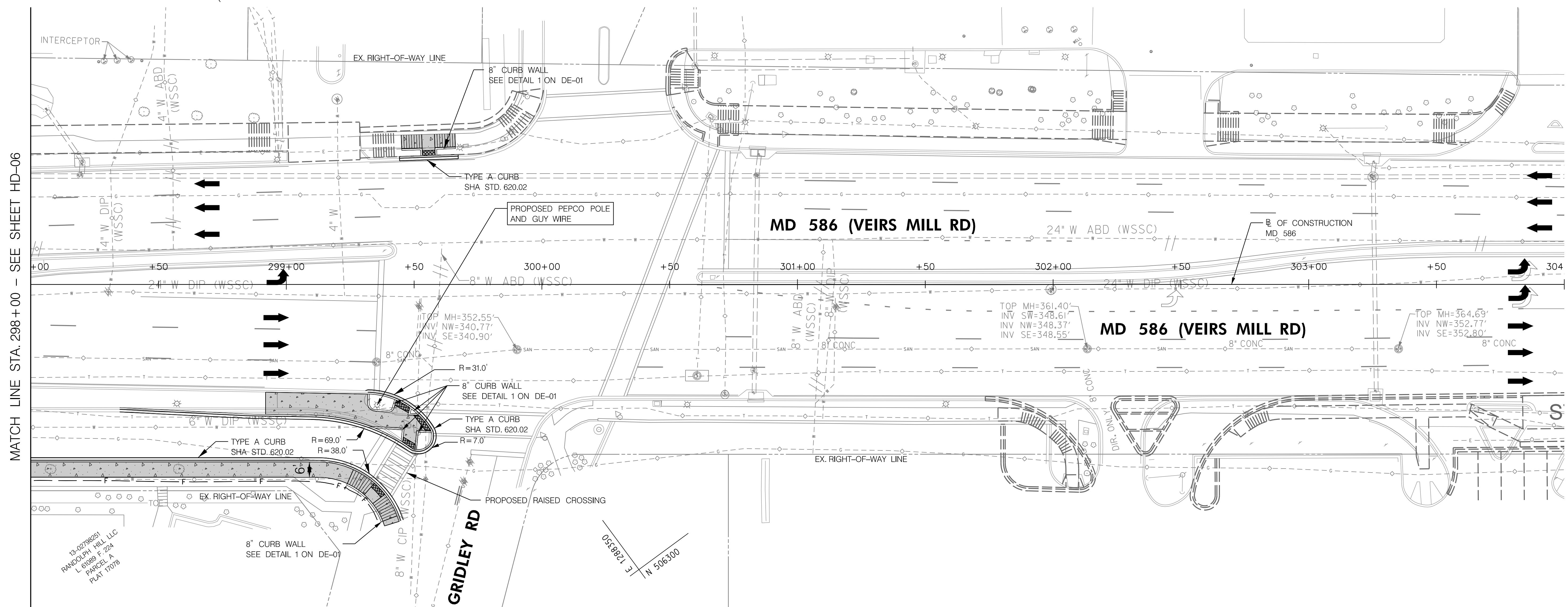
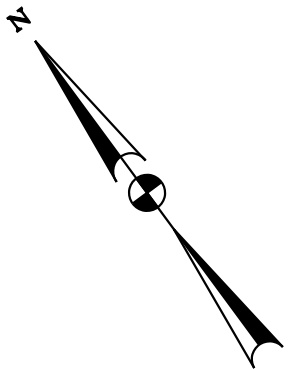
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TO TWINBROOK PKWY

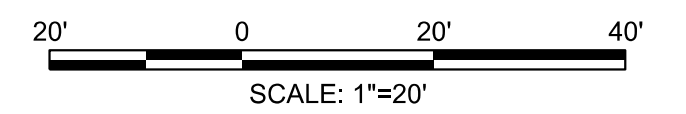
TO CONNECTICUT AVE



MATCH LINE STA. 298+00 - SEE SHEET HD-06

**LEGEND**

- ASPHALT SHARED USE PATH
- CONCRETE SIDEWALK
- ASPHALT DRIVEWAY
- CONCRETE DRIVEWAY
- PERVIOUS ASPHALT SHARED USE PATH
- PERVIOUS CONCRETE SIDEWALK
- DETECTABLE WARNING SURFACE
- PROPOSED BRT IMPROVEMENTS
- IMPROVEMENTS BY OTHERS



DWG. HD-07

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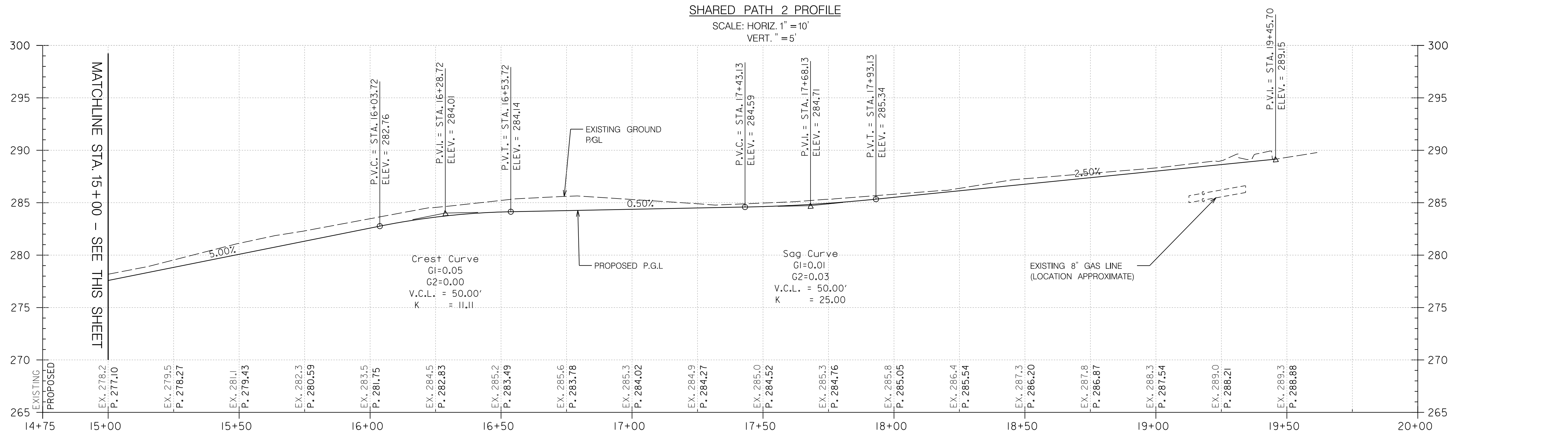
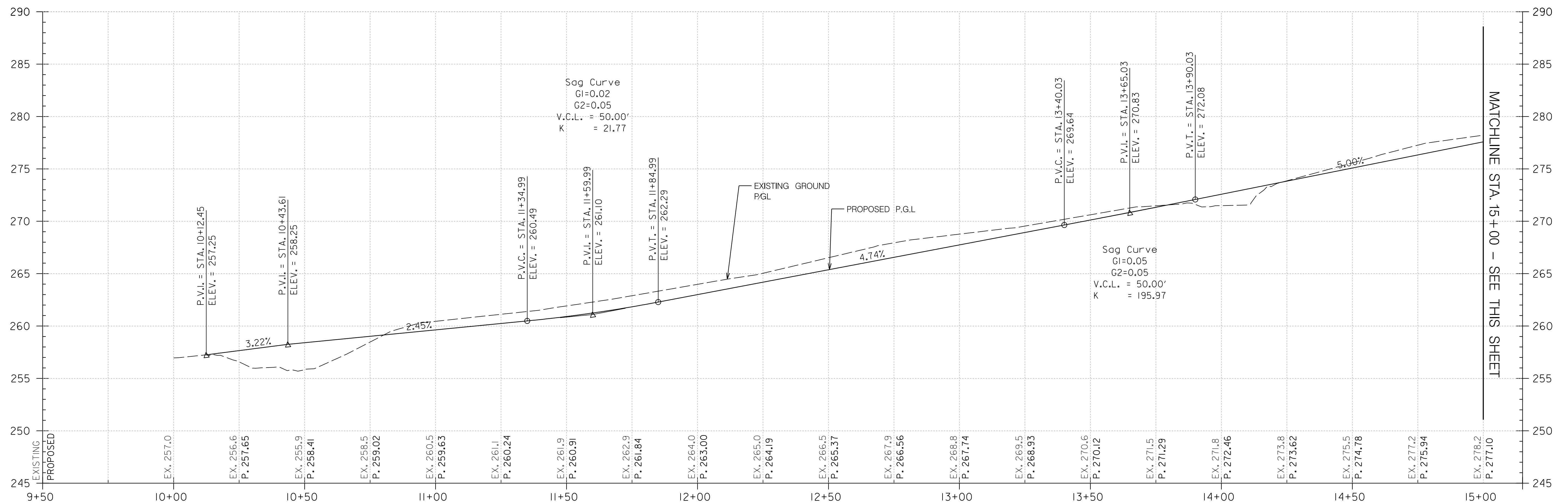
MD 586 (VEIRS MILL RD) BIKE AND PEDESTRIAN  
 PRIORITY AREA - WESTERN SECTOR

**ROADWAY PLAN**

SCALE 1"=20' DATE JUNE 2022

CONTRACT NO. 502003 SHEET NO. 15 OF 50

PLOTTER: 6392529  
 FILE: \\vkk\kccom\18\18\18\Projects\2020\2007\_MCOOT\temp\Task\_4 - BiPPA\_Veirs Mill\Case\Plans\Grid-07\_MCO586BPPA.dgn



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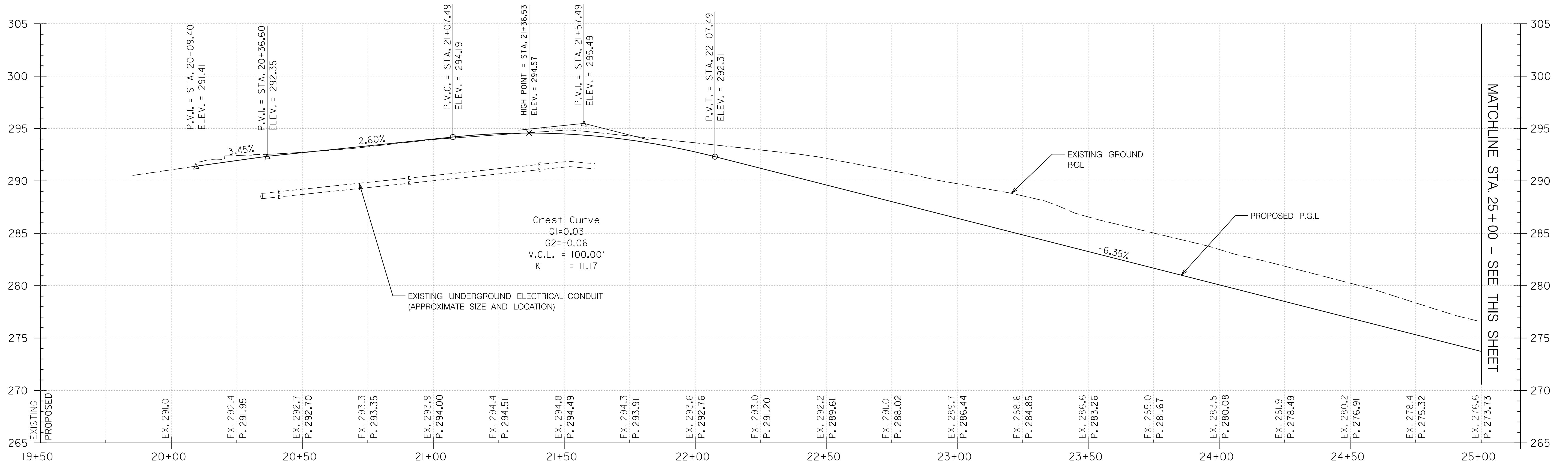
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MD 586 (VEIRS MILL RD) BIKE AND PEDESTRIAN  
PRIORITY AREA - WESTERN SECTOR

**SHARED PATH PROFILES**

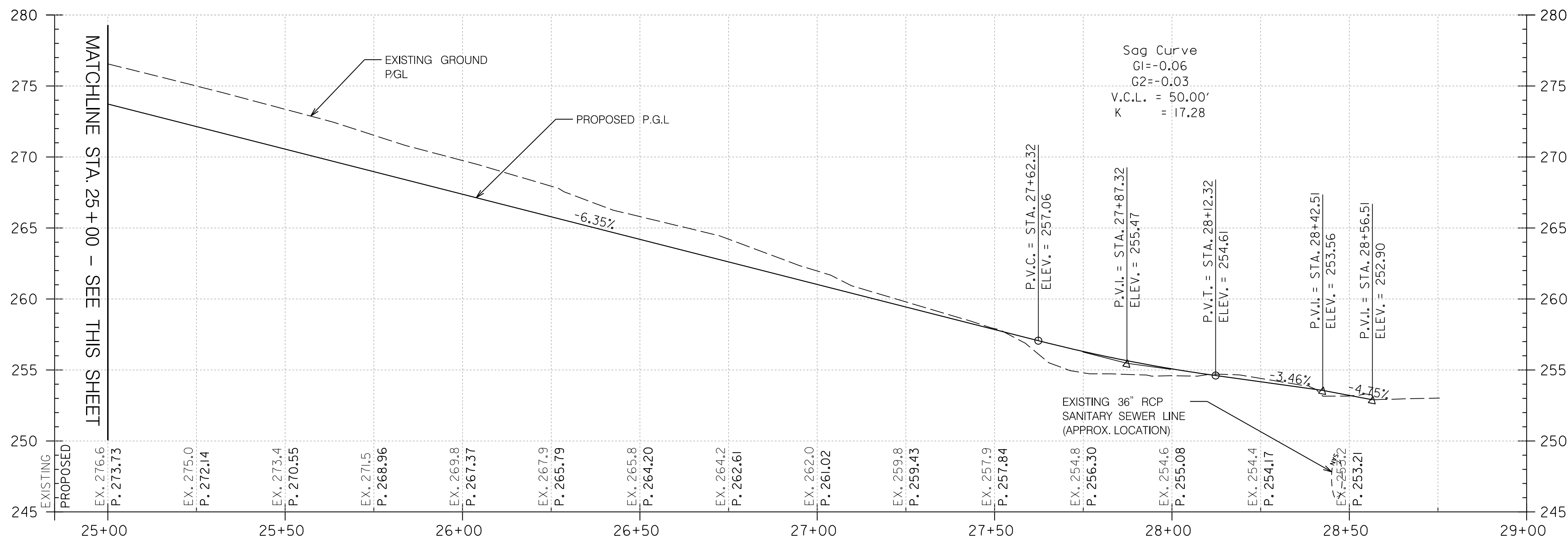
SCALE AS SHOWN DATE JUNE 2022

CONTRACT NO. 502003 SHEET NO. 16 OF 50

DWG. HP-01



**SHARED PATH 2 PROFILE**  
SCALE: HORIZ. 1" = 10'  
VERT. 1" = 5'



**SHARED PATH 2 PROFILE**  
SCALE: HORIZ. 1" = 10'  
VERT. 1" = 5'

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MD 586 (VEIRS MILL RD) BIKE AND PEDESTRIAN  
PRIORITY AREA - WESTERN SECTOR

**SHARED PATH PROFILES**

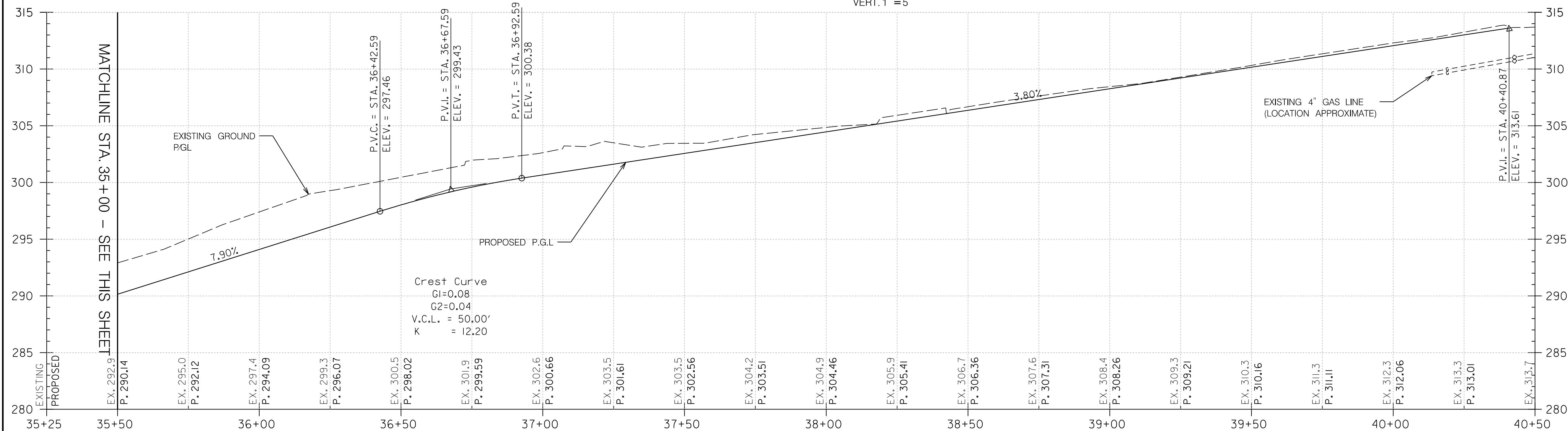
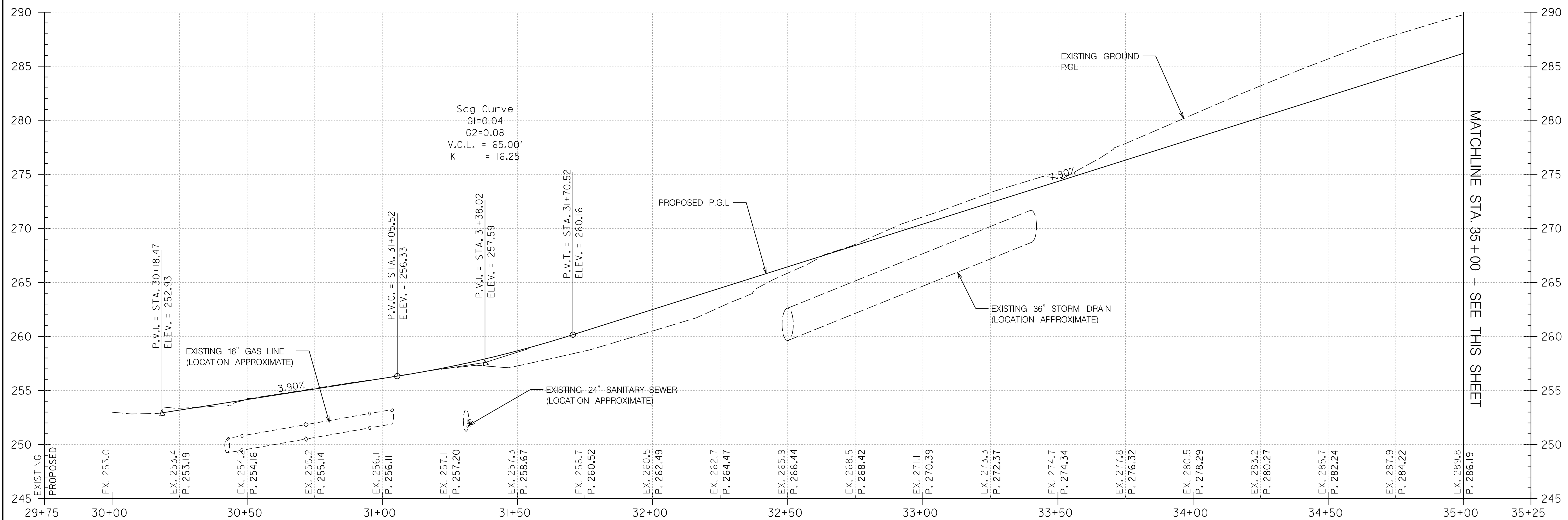
SCALE AS SHOWN DATE JUNE 2022

CONTRACT NO. 502003 SHEET NO. 17 OF 50

PLOTTER: 6/26/2022  
 FILE: \\rkk\com\1\A\Draw\Projects\2020\0007\_MCDOT\Temp\1\Tabl\_4 - BiPPA\_Veirs Mill\Civil\Plans\Plan-1002\_MDS68BPPA.dgn

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DWG. HP-02



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**SHARED PATH 3 PROFILE**  
 SCALE: HORIZ. 1" = 10'  
 VERT. 1" = 5'

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 MD 586 (VEIRS MILL RD) BIKE AND PEDESTRIAN  
 PRIORITY AREA - WESTERN SECTOR

**SHARED PATH PROFILES**  
 SCALE AS SHOWN DATE JUNE 2022

CONTRACT NO. 502003 SHEET NO. 18 OF 50

DWG. HP-03

TRAFFIC CONTROL PLAN – GENERAL NOTES

1. ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE MONTGOMERY COUNTY DEPARTMENT OF TRANSPORTATION WORK ZONE TRAFFIC CONTROL STANDARDS, THE GENERAL NOTES AND STANDARDS PROVIDED IN CATEGORY "1" OF THE MDOT SHA BOOK OF STANDARDS, THE MARYLAND MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MD MUTCD) AND SUBSEQUENT REVISIONS ADOPTED BY THE STATE OF MARYLAND, AND THESE PLANS.
2. NO WORK IS TO BEGIN UNTIL ADVANCE WARNING SIGNS, DRUMS AND TEMPORARY PAVEMENT MARKINGS ARE IN PLACE AND OPERATIONAL.
3. THE CONTRACTOR SHALL NOTIFY ALL TRANSIT AGENCIES WITH ROUTES IMPACTED BY MOT OPERATIONS AND PROVIDE IMPACT DURATION PRIOR TO THE START OF CONSTRUCTION ACTIVITIES.
4. EXCAVATIONS SHALL BE BACKFILLED WITH GRADED AGGREGATE BASE PRIOR TO THE END OF THE WORK DAY IN CONFORMANCE WITH SHA STD. ND. MD 104.01–28.
5. FOR OFF-PEAK HOUR WORK ZONES, TYPICAL APPLICATIONS FROM CATEGORY 1 OF MDOT SHA BOOK OF STANDARDS FOR HIGHWAY AND INCIDENTAL STRUCTURES IN ADDITION TO THOSE CITED ON THESE PLANS MAY BE REQUIRED, AS DIRECTED BY THE ENGINEER. TYPICAL APPLICATIONS TO BE USED FOR OFF-PEAK HOUR WORK MAY BE MODIFIED AS REQUIRED BASED ON FIELD CONDITIONS, AS DIRECTED BY THE ENGINEER.
6. THE SUGGESTED SEQUENCE OF CONSTRUCTION LISTS ONLY MAJOR ITEMS OF WORK AS SHOWN ON THESE PLANS.
7. THE CONTRACTOR SHALL COORDINATE WITH PROPERTY OWNERS THROUGHOUT CONSTRUCTION AND SHALL MAINTAIN ACCESS TO ENTRANCES, DRIVEWAYS, AND SIDE STREETS LOCATED WITHIN THE PROJECT LIMITS AT ALL TIMES. IN THE CASE WHERE AN ACCESS NEEDS TO BE CLOSED, THE CONTRACTOR SHALL NOTIFY THE PROPERTY OWNER AT LEAST 72 HOURS IN ADVANCE.
8. ALL BARRICADES, SIGNS, AND OTHER TRAFFIC CONTROL DEVICES SHALL BE IN ACCORDANCE WITH THE LATEST VERSION OF THE MARYLAND MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MD MUTCD) AND THE MARYLAND STANDARD SIGN BOOK.
9. DRUMS FOR MAINTENANCE OF TRAFFIC ARE SHOWN GRAPHICALLY AND DO NOT REPRESENT THE ACTUAL NUMBER OF DRUMS NEEDED. DRUM AND SIGN SPACING SHALL BE IN ACCORDANCE WITH MONTGOMERY COUNTY'S TEMPORARY TRAFFIC CONTROL STD. NO. TCP-100.01 AND MD SHA STD. NO. 104.01–02.
10. CONSTRUCTION EQUIPMENT AND MATERIALS SHALL BE STORED OFF THE TRAVEL LANES AND PEDESTRIAN FACILITIES AT ALL TIMES.
11. EXISTING REGULATORY SIGNS IN THE WORK ZONE SHALL BE MAINTAINED AT ALL TIMES AS DIRECTED BY THE ENGINEER. SIGNS THAT ARE NOT APPLICABLE SHALL BE REMOVED OR COMPLETELY COVERED WITH NONTRANSPARENT MATERIAL.
12. MAINTAIN POSITIVE DRAINAGE ALONG THE ROADWAY SURFACE THROUGHOUT CONSTRUCTION.
13. TEMPORARY PAVEMENT MARKINGS SHALL BE AS SHOWN ON THE PLANS. EXISTING PAVEMENT MARKINGS WHICH ARE NO LONGER APPLICABLE SHALL BE REMOVED AS DIRECTED BY ENGINEER.
14. ALL SIGNS ON SIDE STREETS SHALL BE PLACED 150 FEET FROM THE WORK ZONE, OR AS SHOWN ON PLANS SHALL BE 150 FEET (MIN.) FROM THE WORK ZONE, OR AS SHOWN ON THE PLAN AND AS DIRECTED BY THE ENGINEER.
15. PERMANENT MARKINGS DAMAGED SHALL BE REPAIRED AT THE DISCRETION OF THE ENGINEER.
16. LANE CLOSURES ARE PROHIBITED BETWEEN THE HOURS OF 6 AM TO 9 AM AND 3 PM TO 7 PM.
17. THE CONTRACTOR IS TO MAINTAIN ACCESS / EGRESS FOR ALL EMERGENCY VEHICLES AT ALL TIMES.
18. INSTALL PORTABLE VARIABLE MESSAGE SIGN (PVMS) 7 DAYS IN ADVANCE OF IMPLEMENTING LANE CLOSURES TO VEIRS MILL ROAD OR SIDE STREETS. PVMS LOCATIONS AND MESSAGES ARE TO BE REVIEWED AND APPROVED BY MCDOT TRAFFIC.

TEMPORARY TRAFFIC CONTROL TYPICAL APPLICATIONS (TTCTA)

THE FOLLOWING TTCTA FROM THE MDOT SHA'S BOOK OF STANDARDS ARE TO BE FOLLOWED AS APPROPRIATE:

MD 104.01–02	– SIGN SPACING CHART
MD 104.01–30B	– CHANNELIZATION DEVICE SPACING EQUALLESS THAN 40 MPH
MD 104.01–30C	– CHANNELIZATION DEVICE SPACING GREATER THAN 40 MPH
MD 104.01–30D	– CHANNELIZATION DEVICE USAGE CRITERIA TABLE
MD 104.04–06	– RIGHT LANE CLOSURE/DIVIDED UNCON. EQUALLESS THAN 40 MPH

THE FOLLOWING TTCTA FROM THE MONTGOMERY COUNTY WORK ZONE TRAFFIC CONTROL STANDARDS ARE TO BE FOLLOWED AS APPROPRIATE:

MCDOT TCP-100.01	– SPACING CHART
------------------	-----------------

SEQUENCE OF CONSTRUCTION

PHASE 1: CONSTRUCT SHARED USE PATHS, RETAINING WALLS, PEDESTRIAN RAMPS AT INTERSECTIONS ALONG VEIRS MILL WESTBOUND.

WORK ZONE ACTIVITIES:

1. IMPLEMENT DAILY RIGHT LANE CLOSURES ALONG MD 586 (VEIRS MILL ROAD) WESTBOUND CLOSING THE RIGHT LANE AS SHOWN IN THE TRAFFIC CONTROL PLANS. LIMITS OF DAILY LANE CLOSURES MAY BE ADJUSTED TO ACCOMMODATE DAILY WORK ACTIVITIES.
2. CONSTRUCT CULVERT HEADWALL EXTENSION AND RETAINING WALLS 1 AND 2.
3. CONSTRUCT SHARED USE PATHS AND PEDESTRIAN LIGHTING ALONG WESTBOUND MD 586 (VEIRS MILL ROAD). CLOSE THE APPROACH LANES OF INTERSECTING SIDE STREETS PARKLAND DR., TURKEY BRANCH DR., HAVARD STREET AND GRIDLEY RD. FLAGGING OPERATIONS AND ADDITIONAL LANE CLOSURES ON SIDESTREETS FOLLOWING THE ALLOWABLE LANE CLOSURE SCHEDULE MAY BE REQUIRED TO COMPLETE CONSTRUCTION OF THE PEDESTRIAN RAMPS AND SHARED USE PATH/SIDEWALK CONNECTIONS AT THE RESPECTIVE INTERSECTIONS. CONSTRUCTION OF EACH CORNER OF AN INTERSECTION SHALL BE STAGGERED TO MAINTAIN PEDESTRIAN ACCESS.
4. INSTALL NEW TRAFFIC SIGNAL AT HAVARD ST. INTERSECTION.

PHASE 2: CONSTRUCT SIDEWALKS, CURB, DRIVEWAYS AND PEDESTRIAN RAMPS ALONG EASTBOUND VEIRS MILL ROAD AND THE SERVICE ROAD.

WORK ZONE ACTIVITIES:

1. IMPLEMENT DAILY RIGHT LANE CLOSURES ALONG MD 586 (VEIRS MILL ROAD) EASTBOUND AS SHOWN IN THE TRAFFIC CONTROL PLANS. LIMITS OF DAILY LANE CLOSURES MAY BE ADJUSTED TO ACCOMMODATE DAILY WORK ACTIVITIES.
2. CONSTRUCT SIDEWALKS AND DRIVEWAYS ALONG MD 586 (VEIRS MILL ROAD) SERVICE ROAD AND EASTBOUND MD 586 (VEIRS MILL ROAD). THE IMPROVEMENTS ALONG THE SERVICE ROAD SHALL BE STAGGERED TO MAINTAIN VEHICULAR ACCESS. FLAGGING OPERATIONS AND ADDITIONAL LANE CLOSURES ON SIDESTREETS FOLLOWING THE ALLOWABLE LANE CLOSURE SCHEDULE MAY BE REQUIRED TO COMPLETE CONSTRUCTION OF THE PEDESTRIAN RAMPS AND SHARED USE PATH/SIDEWALK CONNECTIONS AT THE RESPECTIVE INTERSECTIONS. CONSTRUCTION OF EACH CORNER OF AN INTERSECTION SHALL BE STAGGERED TO MAINTAIN PEDESTRIAN ACCESS.
3. PHASE 2 ACTIVITIES MAY BE CONCURRENT WITH PHASE 1.

PHASE 3: CONSTRUCT MEDIAN CURB AND CUT THROUGH WORK ZONE ACTIVITIES.

WORK ZONE ACTIVITIES:

1. IMPLEMENT DAILY LEFT LANE CLOSURES ALONG MD 586 (VEIRS MILL ROAD) EASTBOUND AND WESTBOUND.
2. INSTALL NEW CURB LINE AND MEDIAN CUT THROUGH.
3. PHASE 3 CONSTRUCTION ACTIVITIES SHALL BE COORDINATED WITH THE PEDESTRIAN RAMP AND SIGNAL CONSTRUCTION AT HAVARD STREET INTERSECTION. ACTIVATE NEW SIGNAL.

DWG. MT-00

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MD 586 (VEIRS MILL RD) BIKE AND PEDESTRIAN  
PRIORITY AREA – WESTERN SECTOR

TRAFFIC CONTROL PLAN – NOTES

SCALE N/A DATE JUNE 24, 2022

CONTRACT NO. 502003 SHEET NO. 19 OF 50

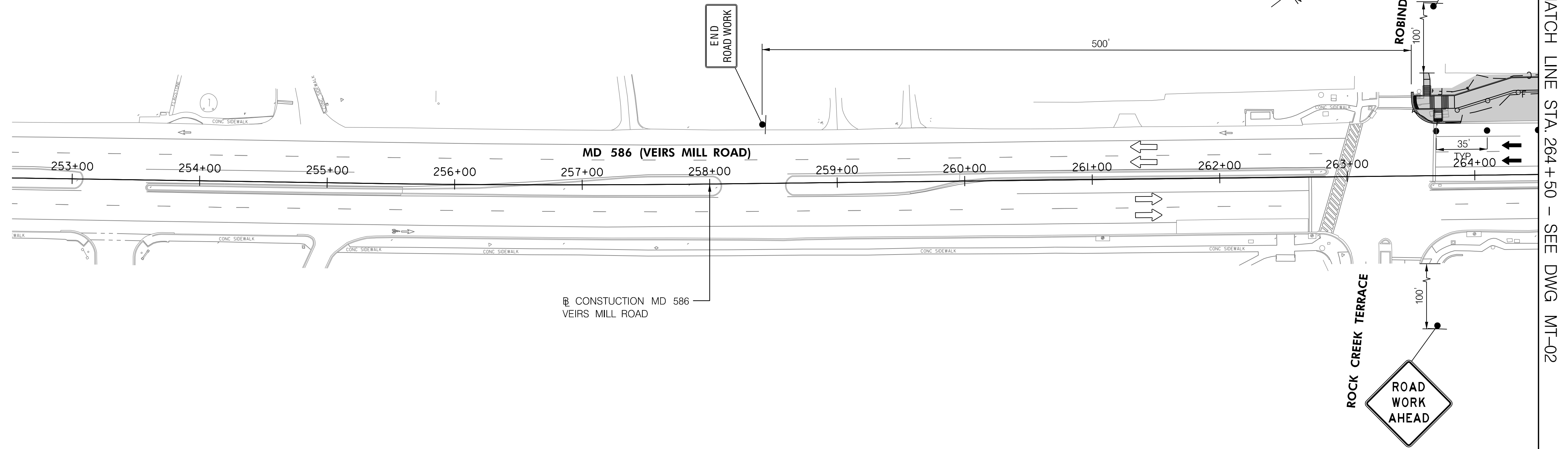


TO ROCKVILLE PIKE

TO GEORGIA AVE.

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N 509500

E 1285500  
N 508750



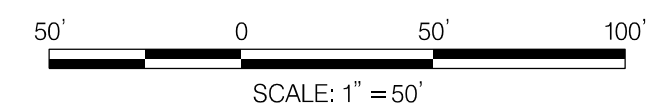
CONSTRUCTION MD 586  
VEIRS MILL ROAD

MATCH LINE STA: 264 + 50 - SEE DWG MT-02

**LEGEND**

- AREA UNDER CONSTRUCTION
- DRUMS
- TEMPORARY TRAFFIC SIGN AND SUPPORT
- EXISTING TRAFFIC FLOW ARROW
- PROPOSED TEMPORARY TRAFFIC FLOW ARROW
- TYPE III BARRICADE
- PROPOSED TEMPORARY SIGN
- EXISTING SIGN TO REMAIN
- EXISTING SIGN TO BE REMOVED OR COVERED

E 1284500  
N 508750



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PRIORITY AREA - WESTERN SECTOR  
TRAFFIC CONTROL PLAN - PHASE 1  
SCALE 1" = 50' DATE JUNE 24, 2022

CONTRACT NO. 502003 SHEET NO. 20 OF 50

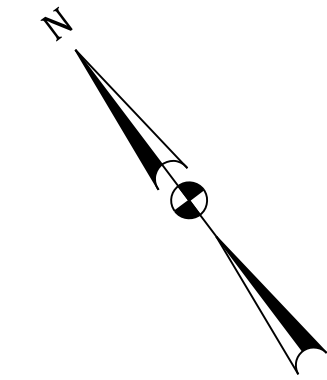
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NOTES:  
 1) WORK AT SIDE STREET INTERSECTIONS TO BE COMPLETED WITH SINGLE LANE CLOSURES  
 SEE MD SHA STD. 104.04-05 AND 104.04-06.

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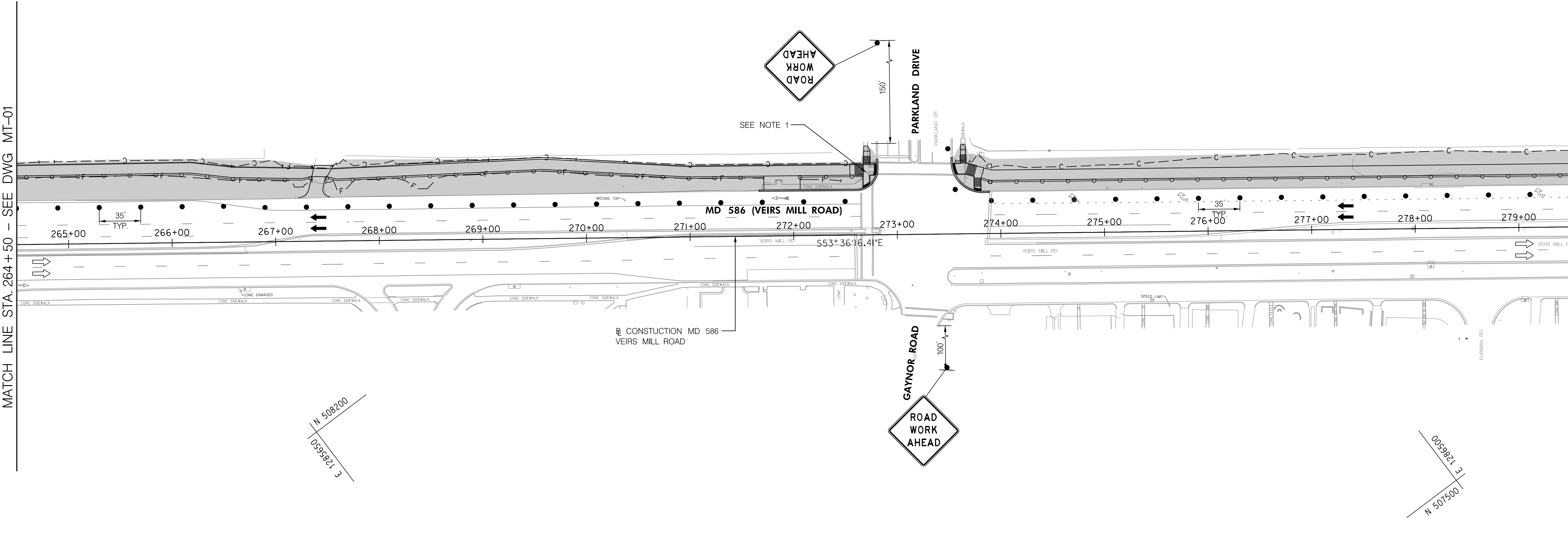
TO GEORGIA AVE.

N 508200 / E 1286500



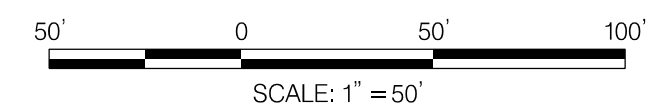
MATCH LINE STA. 264+50 - SEE DWG MT-01

MATCH LINE STA. 279+50 - SEE DWG MT-03



**LEGEND**

- AREA UNDER CONSTRUCTION
- DRUMS
- TEMPORARY TRAFFIC SIGN AND SUPPORT
- EXISTING TRAFFIC FLOW ARROW
- PROPOSED TEMPORARY TRAFFIC FLOW ARROW
- TYPE III BARRICADE
- PROPOSED TEMPORARY SIGN
- EXISTING SIGN TO REMAIN
- EXISTING SIGN TO BE REMOVED OR COVERED



DWG. MT-02

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MD 586 (VEIRS MILL RD) BIKE AND PEDESTRIAN  
 PRIORITY AREA - WESTERN SECTOR

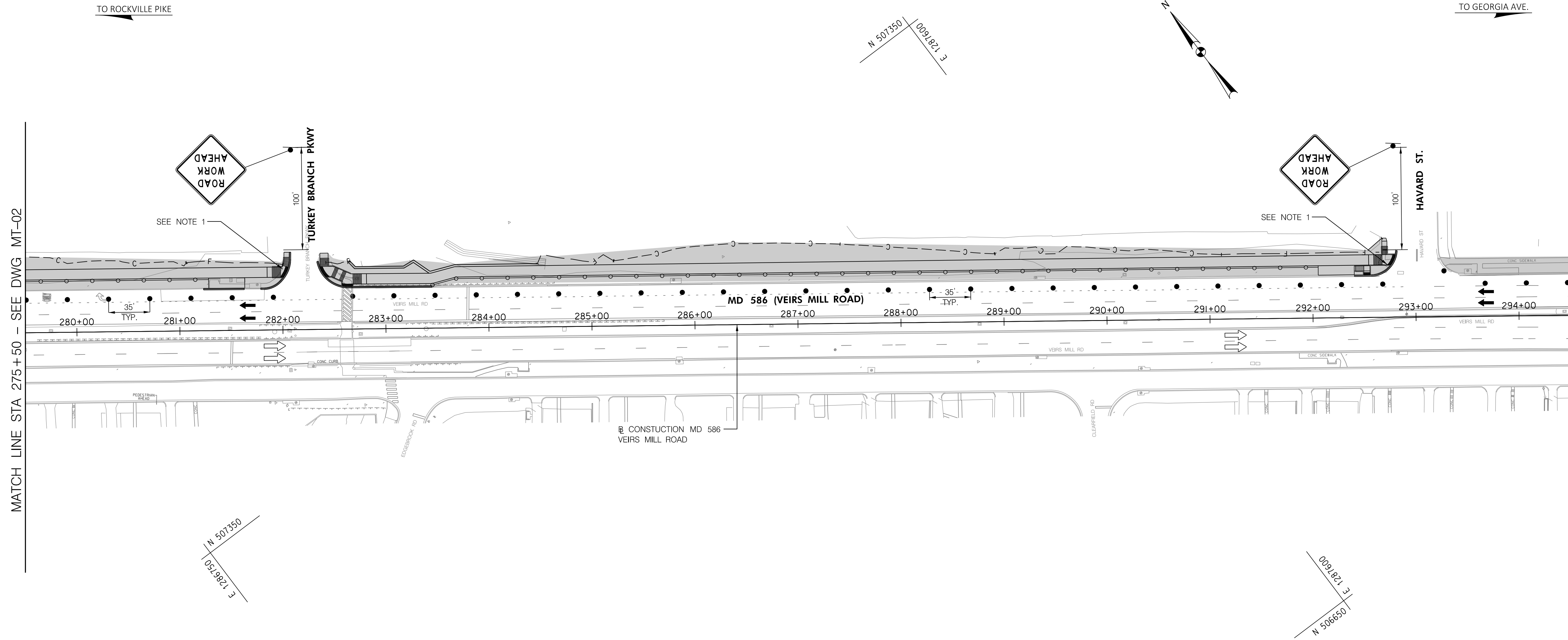
TRAFFIC CONTROL PLAN - PHASE 1

SCALE 1"=50' DATE JUNE 24, 2022

CONTRACT NO. 502003 SHEET NO. 21 OF 50

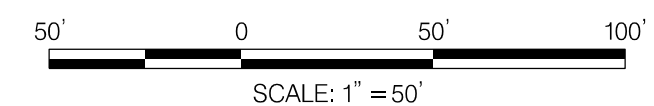
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NOTES:  
 1) WORK AT SIDE STREET INTERSECTIONS TO BE COMPLETED WITH SINGLE LANE CLOSURES  
 SEE MD SHA STD. 104.04-05 AND 104.04-06.



LEGEND

- AREA UNDER CONSTRUCTION
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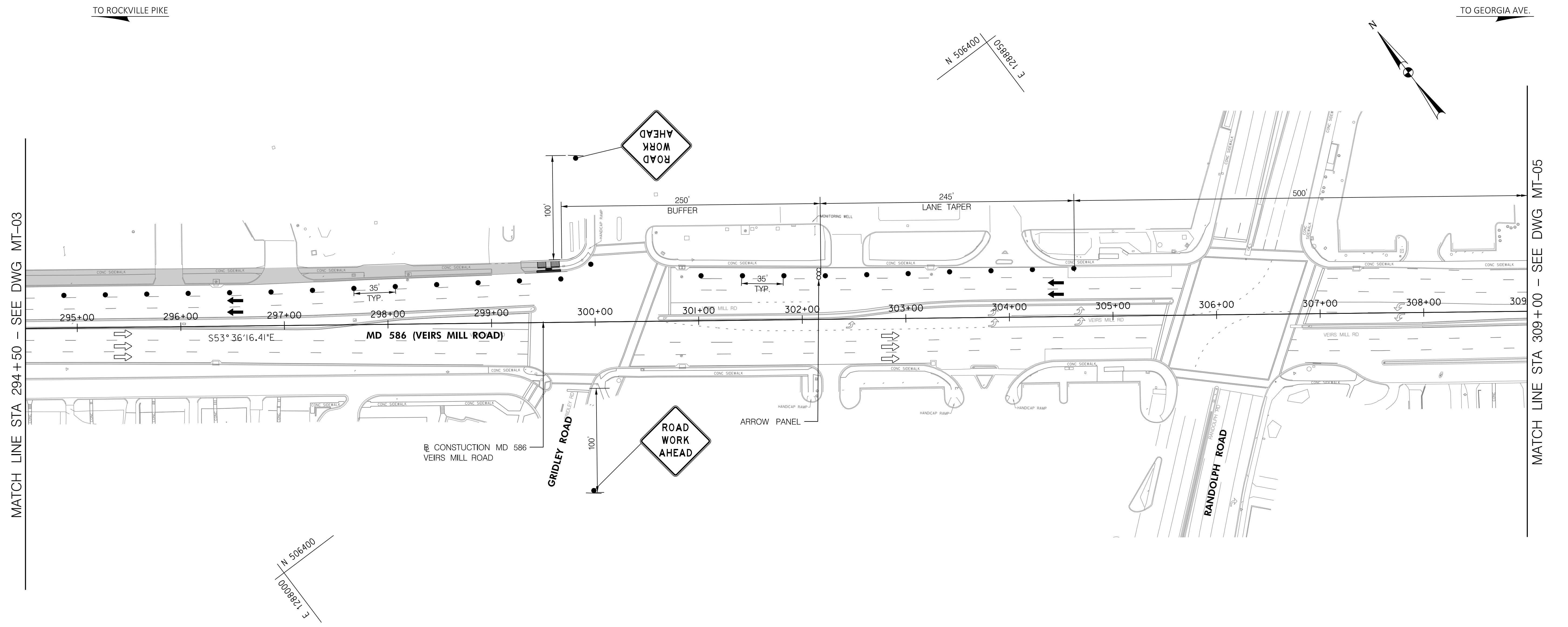


DWG. MT-03

OWNER/ADDRESS: MONTGOMERY COUNTY DEPARTMENT OF TRANSPORTATION 100 EDISON PARK DRIVE GAITHERSBURG, MARYLAND  CONTACT: DIVISION OF TRANSPORTATION ENGINEERING 240-777-7220 DESIGN SECTION 240-777-7221					MONTGOMERY COUNTY DEPARTMENT OF TRANSPORTATION ROCKVILLE, MARYLAND  RECOMMENDED FOR APPROVAL SEE TITLE SHEET FOR SIGNATURE _____ Date _____ Chief, Transportation Planning and Design Section APPROVED SEE TITLE SHEET FOR SIGNATURE _____ Date _____ Chief, Division of Transportation Engineering	MONTGOMERY COUNTY DEPARTMENT OF TRANSPORTATION DIVISION OF TRANSPORTATION ENGINEERING MD 586 (VEIRS MILL RD) BIKE AND PEDESTRIAN PRIORITY AREA - WESTERN SECTOR TRAFFIC CONTROL PLAN - PHASE 1 SCALE 1"=50' DATE JUNE 24, 2022
	NO.	REVISION	DATE	BY	DESIGNED BY <u>AF</u> DRAWN BY <u>AF</u> CHECKED BY <u>CJB</u> CONTRACT NO. 502003 SHEET NO. <u>22</u> OF <u>50</u>	

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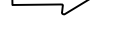



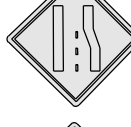

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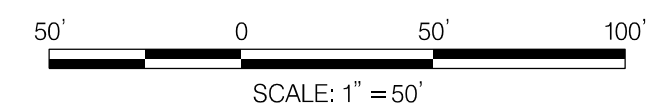


MATCH LINE STA 294+50 - SEE DWG MT-03

MATCH LINE STA 309+00 - SEE DWG MT-05

**LEGEND**

-  AREA UNDER CONSTRUCTION
-  DRUMS
-  TEMPORARY TRAFFIC SIGN AND SUPPORT
-  EXISTING TRAFFIC FLOW ARROW
-  PROPOSED TEMPORARY TRAFFIC FLOW ARROW
-  TYPE III BARRICADE
-  PROPOSED TEMPORARY SIGN
-  EXISTING SIGN TO REMAIN
-  EXISTING SIGN TO BE REMOVED OR COVERED



DWG. MT-04

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 DESIGN SECTION  
 240-777-7221

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 ROCKVILLE, MARYLAND

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 Chief, Division of Transportation Engineering

DESIGNED BY AF DRAWN BY AF CHECKED BY CJB

MONTGOMERY COUNTY  
 DEPARTMENT OF TRANSPORTATION  
 DIVISION OF TRANSPORTATION ENGINEERING

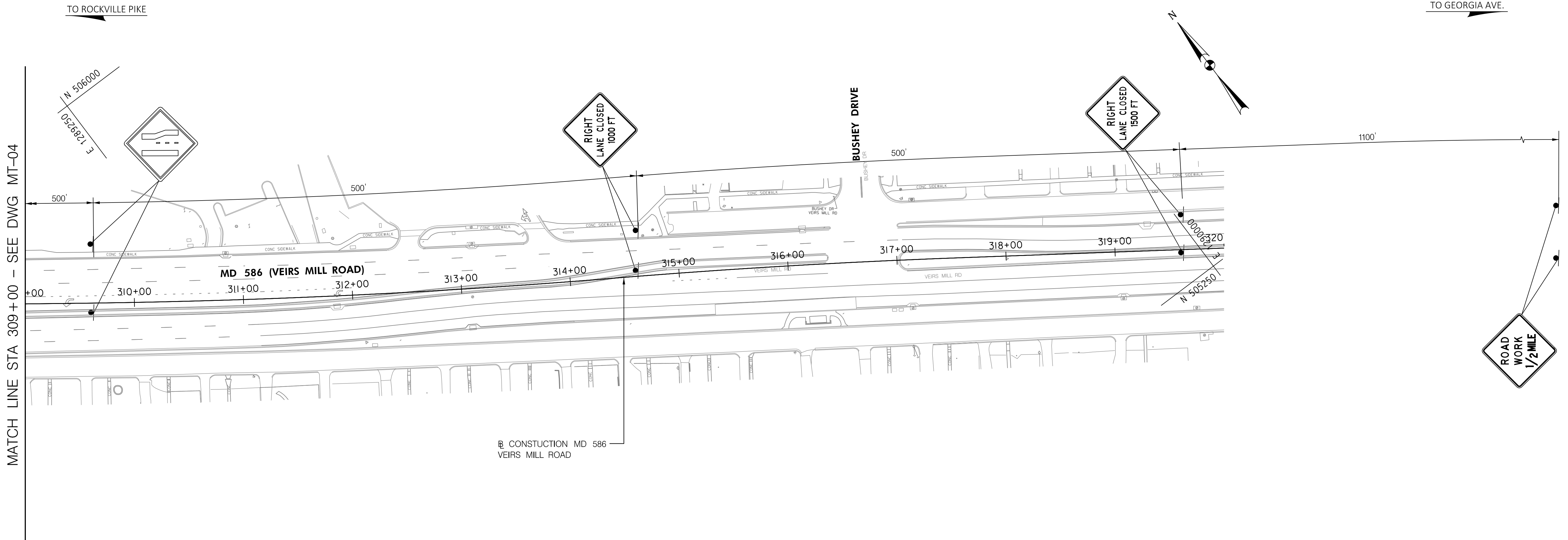
MD 586 (VEIRS MILL RD) BIKE AND PEDESTRIAN  
 PRIORITY AREA - WESTERN SECTOR

TRAFFIC CONTROL PLAN - PHASE 1

SCALE 1"=50' DATE JUNE 24, 2022




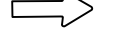





CONTRACT NO. 502003 SHEET NO. 23 OF 50

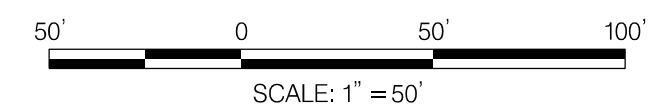
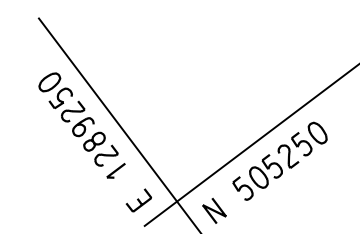
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MATCH LINE STA 309+00 - SEE DWG MT-04

**LEGEND**

-  AREA UNDER CONSTRUCTION
-  DRUMS
-  TEMPORARY TRAFFIC SIGN AND SUPPORT
-  EXISTING TRAFFIC FLOW ARROW
-  PROPOSED TEMPORARY TRAFFIC FLOW ARROW
-  TYPE III BARRICADE
-  PROPOSED TEMPORARY SIGN
-  EXISTING SIGN TO REMAIN
-  EXISTING SIGN TO BE REMOVED OR COVERED



DWG. MT-05

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 DESIGN SECTION  
 240-777-7221

NO.	REVISION	DATE	BY

MONTGOMERY COUNTY  
 DEPARTMENT OF TRANSPORTATION  
 ROCKVILLE, MARYLAND

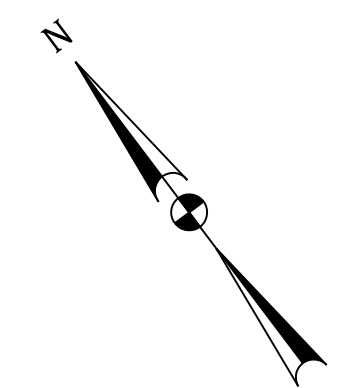
RECOMMENDED FOR APPROVAL  
 SEE TITLE SHEET FOR SIGNATURE \_\_\_\_\_  
 Chief, Transportation Planning and Design Section Date \_\_\_\_\_

APPROVED  
 SEE TITLE SHEET FOR SIGNATURE \_\_\_\_\_  
 Chief, Division of Transportation Engineering Date \_\_\_\_\_

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MONTGOMERY COUNTY  
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 DIVISION OF TRANSPORTATION ENGINEERING  
 MD 586 (VEIRS MILL RD) BIKE AND PEDESTRIAN  
 PRIORITY AREA - WESTERN SECTOR  
**TRAFFIC CONTROL PLAN - PHASE 1**  
 SCALE 1"=50' DATE JUNE 24, 2022

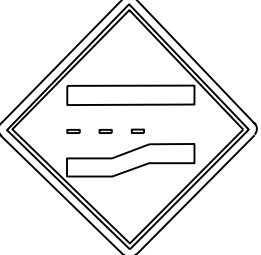
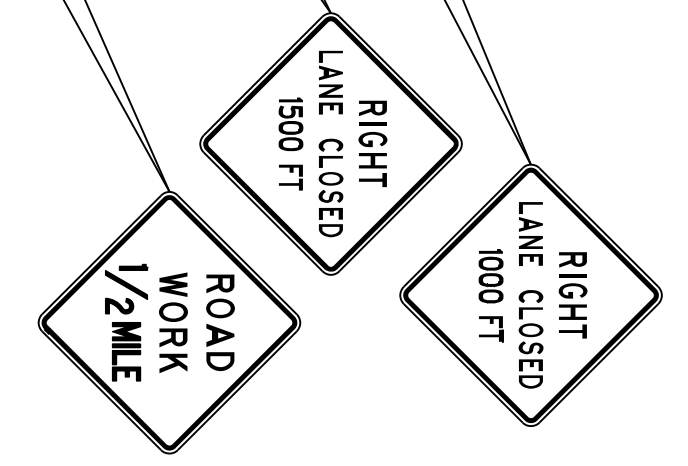
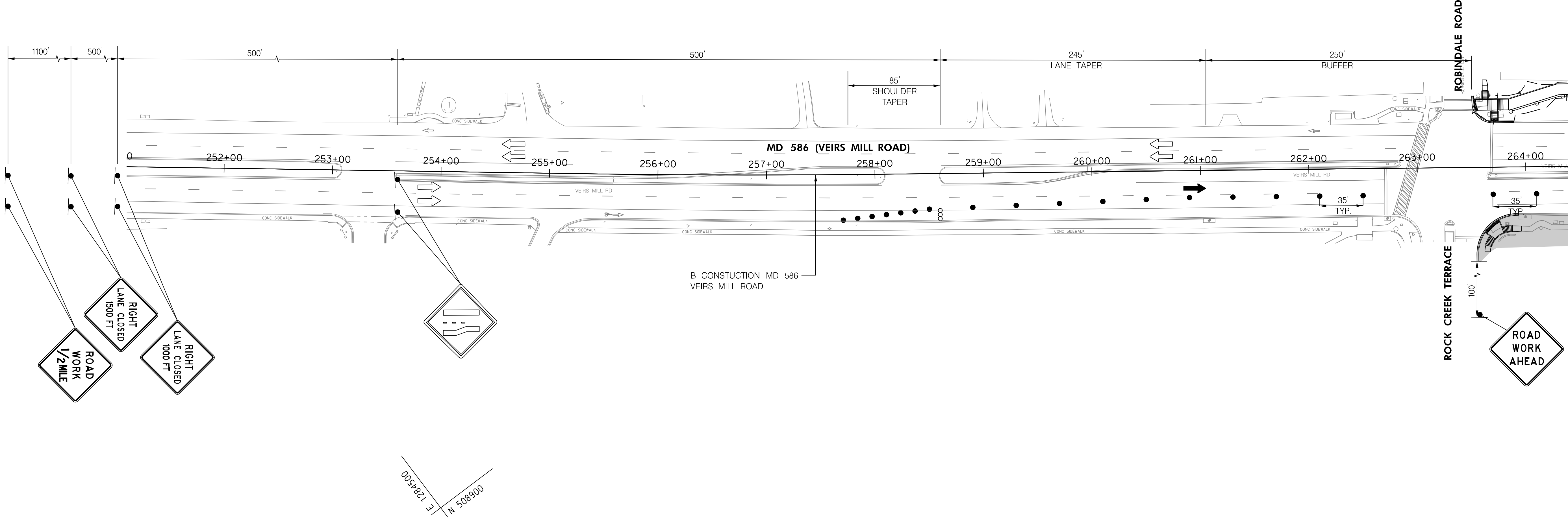
CONTRACT NO. 502003 SHEET NO. 24 OF 50



TO ROCKVILLE PIKE  TO GEORGIA AVE.

E 1284500  
N 5089550

E 1284500  
N 5089000

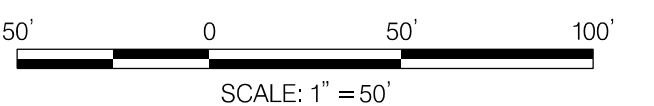


MATCH LINE STA: 264 + 50 - SEE DWG MT-02

E 1284500  
N 5089000

**LEGEND**

- AREA UNDER CONSTRUCTION
- DRUMS
- TEMPORARY TRAFFIC SIGN AND SUPPORT
- EXISTING TRAFFIC FLOW ARROW
- PROPOSED TEMPORARY TRAFFIC FLOW ARROW
- TYPE III BARRICADE
- PROPOSED TEMPORARY SIGN
- EXISTING SIGN TO REMAIN
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DWG. MT-06

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DIVISION OF TRANSPORTATION ENGINEERING

MD 586 (VEIRS MILL RD) BIKE AND PEDESTRIAN  
PRIORITY AREA - WESTERN SECTOR

TRAFFIC CONTROL PLAN - PHASE 2

SCALE 1"=50' DATE JUNE 24, 2022

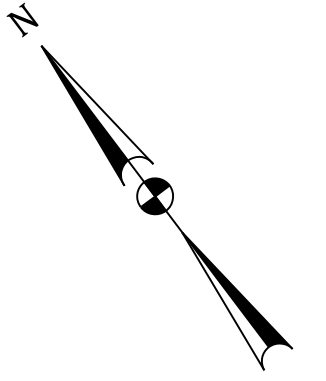
CONTRACT NO. 502003 SHEET NO. 25 OF 50

PLOTTER: 6/25/2022  
FILE: \\rkk\csm\15\Chen\Projects\2020\0907\_MCOOTTemp\Task\_4 - BiPPA\_Veirs Mill\CAD\Plans\MT-06\_MCO586BPA.dgn

TO ROCKVILLE PIKE

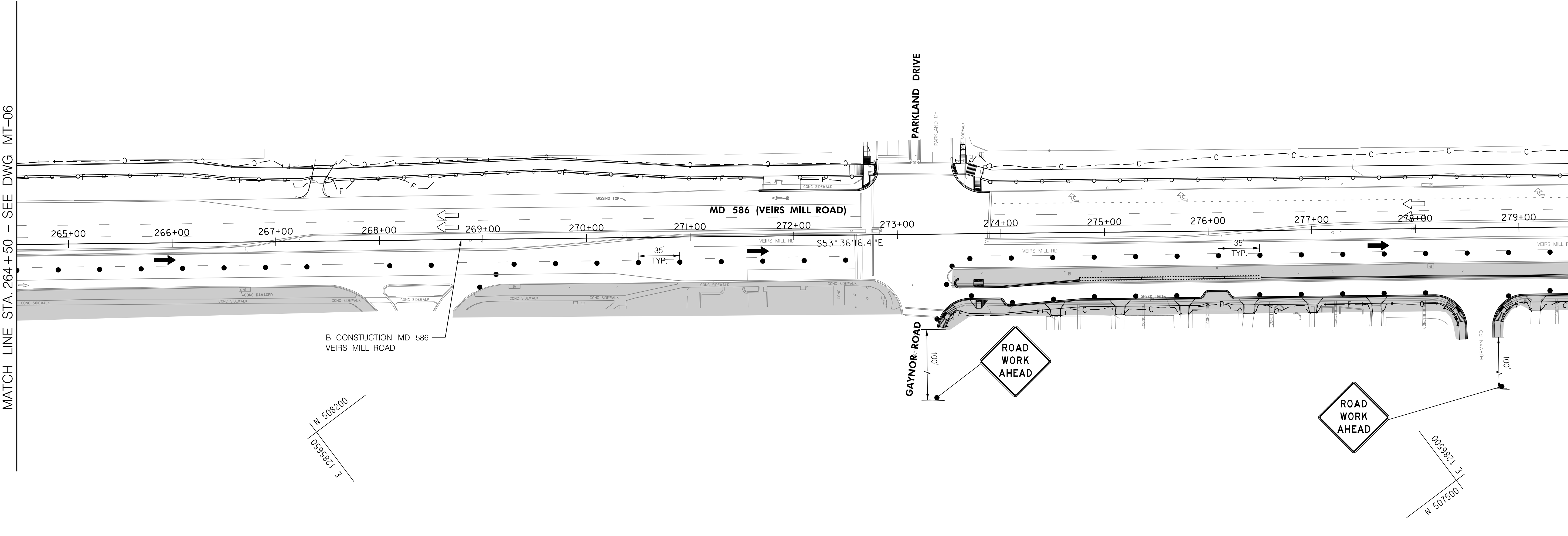
TO GEORGIA AVE.

N 508200 / E 1286500



MATCH LINE STA. 264+50 - SEE DWG MT-06

MATCH LINE STA. 279+50 - SEE DWG MT-08




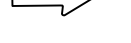



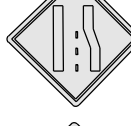



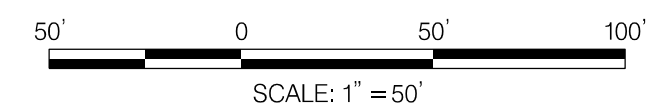
B CONSTRUCTION MD 586  
VEIRS MILL ROAD

GAYNOR ROAD



**LEGEND**

-  AREA UNDER CONSTRUCTION
-  DRUMS
-  TEMPORARY TRAFFIC SIGN AND SUPPORT
-  EXISTING TRAFFIC FLOW ARROW
-  PROPOSED TEMPORARY TRAFFIC FLOW ARROW
-  TYPE III BARRICADE
-  PROPOSED TEMPORARY SIGN
-  EXISTING SIGN TO REMAIN
-  EXISTING SIGN TO BE REMOVED OR COVERED



DWG. MT-07

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DIVISION OF TRANSPORTATION ENGINEERING

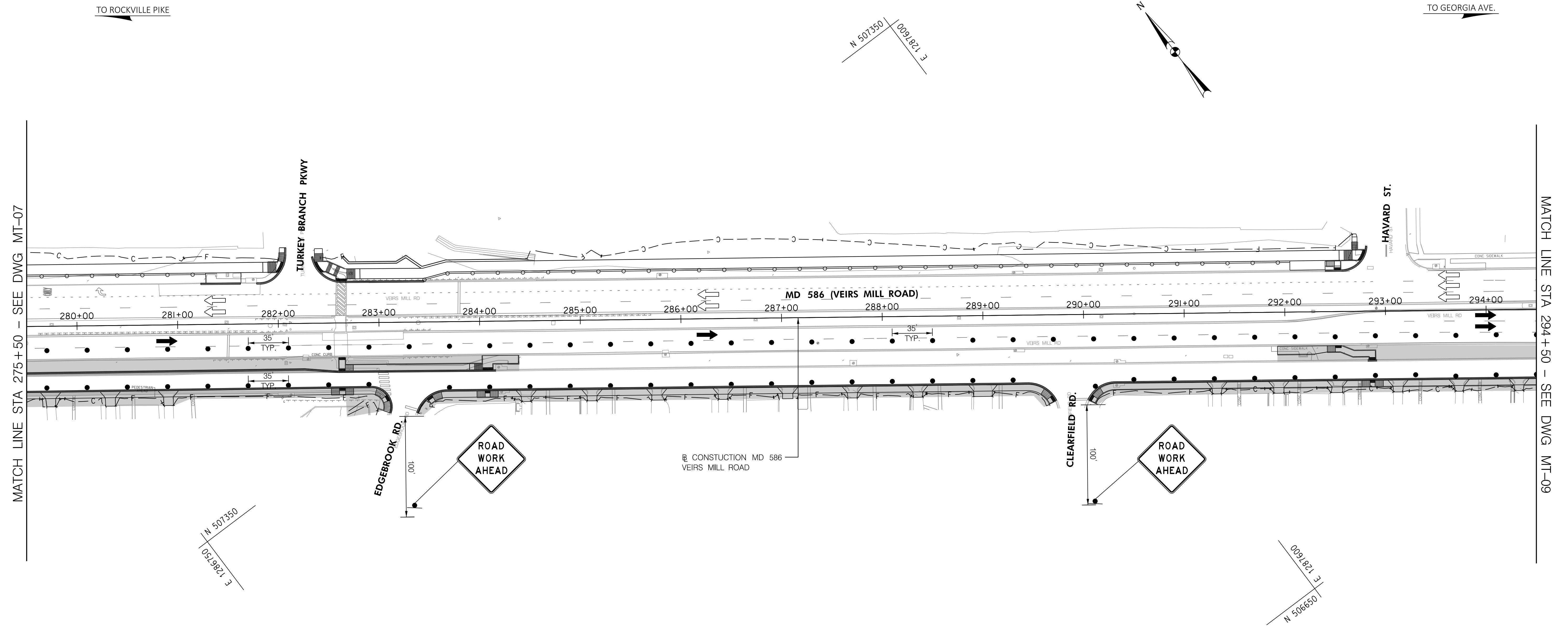
MD 586 (VEIRS MILL RD) BIKE AND PEDESTRIAN  
PRIORITY AREA - WESTERN SECTOR

TRAFFIC CONTROL PLAN - PHASE 2

SCALE 1"=50' DATE JUNE 24, 2022

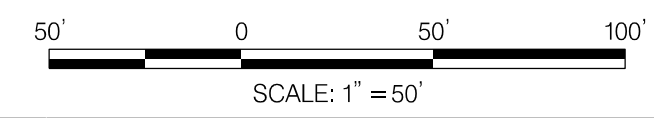
CONTRACT NO. 502003 SHEET NO. 26 OF 50

PLOTTER: 6/26/2022  
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**LEGEND**

- AREA UNDER CONSTRUCTION
- DRUMS
- TEMPORARY TRAFFIC SIGN AND SUPPORT
- EXISTING TRAFFIC FLOW ARROW
- PROPOSED TEMPORARY TRAFFIC FLOW ARROW
- TYPE III BARRICADE
  
- PROPOSED TEMPORARY SIGN
- EXISTING SIGN TO REMAIN
- EXISTING SIGN TO BE REMOVED OR COVERED



DWG. MT-08

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MD 586 (VEIRS MILL RD) BIKE AND PEDESTRIAN  
 PRIORITY AREA – WESTERN SECTOR

TRAFFIC CONTROL PLAN – PHASE 2

SCALE 1"=50' DATE JUNE 24, 2022

CONTRACT NO. 502003 SHEET NO. 27 OF 50

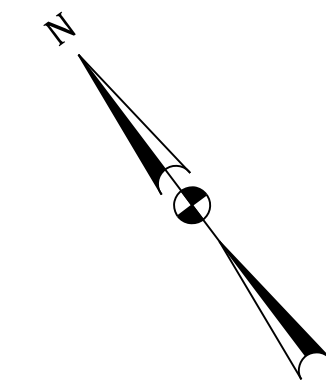
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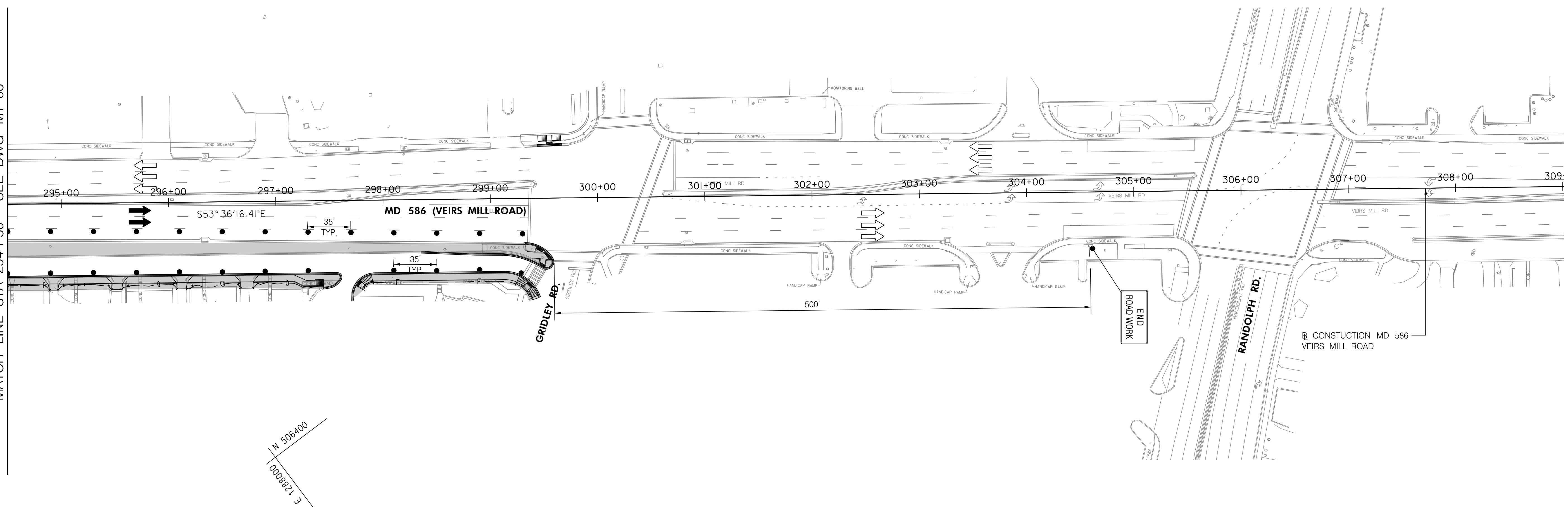
TO ROCKVILLE PIKE

TO GEORGIA AVE.

N 506+00 / 058882 E 172882



MATCH LINE STA 294+50 - SEE DWG MT-08

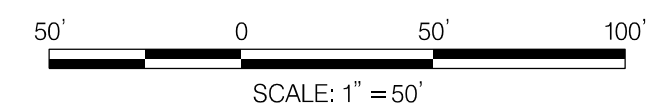


N 506+00 / 058882 E 172882

N 505+600 / 058882 E 172882

**LEGEND**

- AREA UNDER CONSTRUCTION
- DRUMS
- TEMPORARY TRAFFIC SIGN AND SUPPORT
- EXISTING TRAFFIC FLOW ARROW
- PROPOSED TEMPORARY TRAFFIC FLOW ARROW
- TYPE III BARRICADE
- PROPOSED TEMPORARY SIGN
- EXISTING SIGN TO REMAIN
- EXISTING SIGN TO BE REMOVED OR COVERED



DWG. MT-09

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 DESIGN SECTION  
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 DIVISION OF TRANSPORTATION ENGINEERING

MD 586 (VEIRS MILL RD) BIKE AND PEDESTRIAN  
 PRIORITY AREA - WESTERN SECTOR

TRAFFIC CONTROL PLAN - PHASE 2

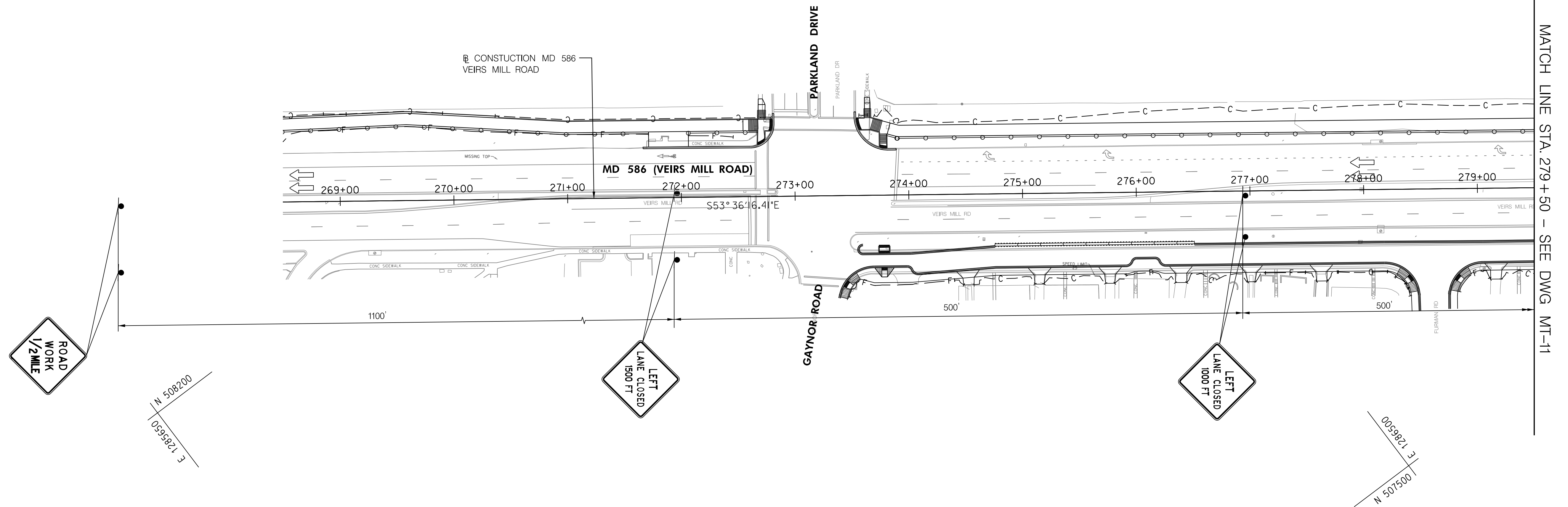
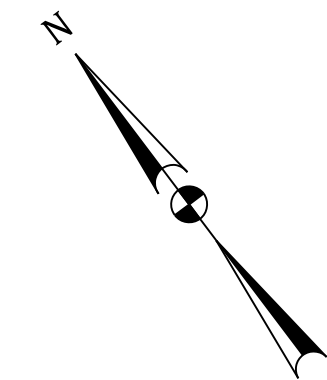
SCALE 1"=50' DATE JUNE 24, 2022

CONTRACT NO. 502003 SHEET NO. 28 OF 50

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TO GEORGIA AVE.

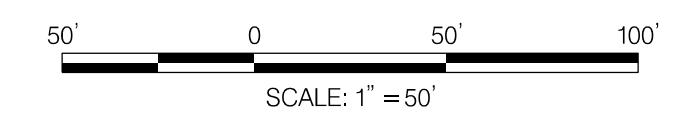
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MATCH LINE STA. 279+50 - SEE DWG. MT-11

**LEGEND**

- AREA UNDER CONSTRUCTION
- DRUMS
- TEMPORARY TRAFFIC SIGN AND SUPPORT
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- PROPOSED TEMPORARY TRAFFIC FLOW ARROW
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DWG. MT-10

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 DEPARTMENT OF TRANSPORTATION  
 DIVISION OF TRANSPORTATION ENGINEERING

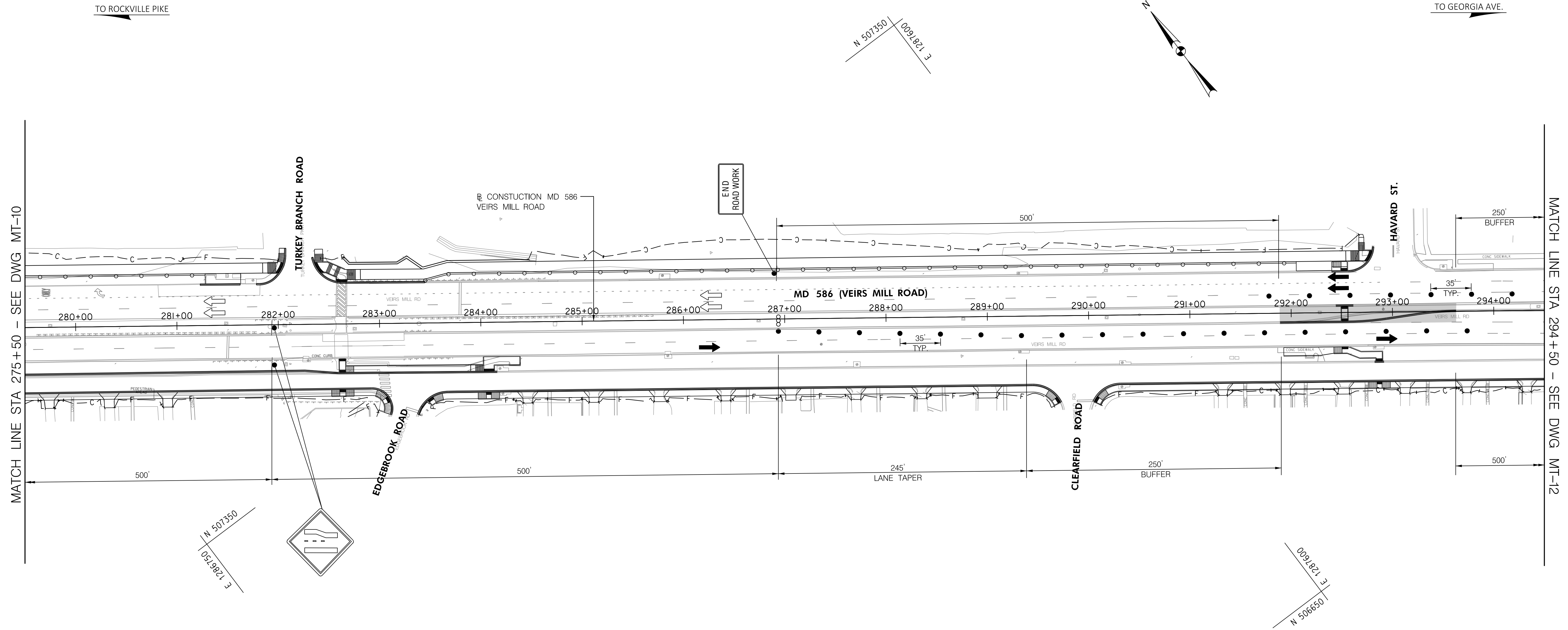
MD 586 (VEIRS MILL RD) BIKE AND PEDESTRIAN  
 PRIORITY AREA - WESTERN SECTOR

TRAFFIC CONTROL PLAN - PHASE 3

SCALE 1"=50' DATE JUNE 24, 2022

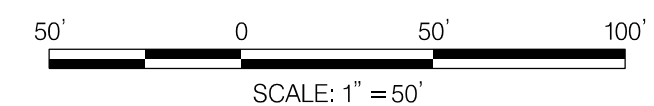
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PLOTTER: 6/24/2022  
 FILE: \\vkkccom\18\18\Projects\2020\2007\_MCDOTTemp\Task\_4 - BiPPA\_Veirs Mill\CAD\Plans\MT-10\_MCDOTBiPPA.dgn



LEGEND

- AREA UNDER CONSTRUCTION
- DRUMS
- TEMPORARY TRAFFIC SIGN AND SUPPORT
- EXISTING TRAFFIC FLOW ARROW
- PROPOSED TEMPORARY TRAFFIC FLOW ARROW
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DWG. MT-11

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MD 586 (VEIRS MILL RD) BIKE AND PEDESTRIAN  
 PRIORITY AREA - WESTERN SECTOR

TRAFFIC CONTROL PLAN - PHASE 3

SCALE 1"=50' DATE JUNE 24, 2022

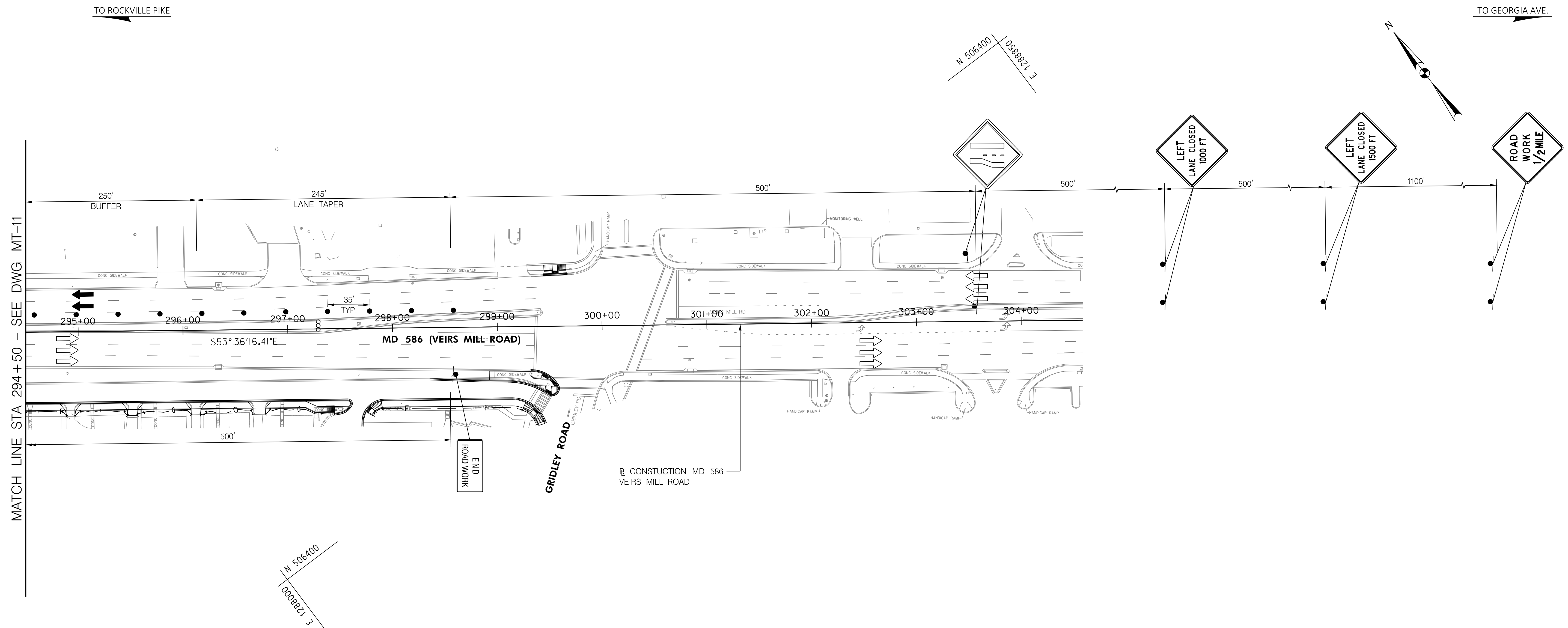
CONTRACT NO. 502003 SHEET NO. 30 OF 50

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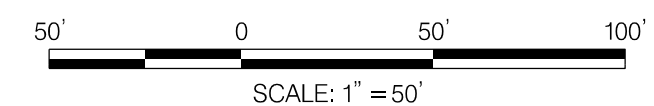
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PLOTTER: 6/24/2022  
 FILE: \\rkk.com\18\1806\Projects\2020\0097\_MCDOTTemp\Task\_4 - BiPPA\_Veirs Mill\Civil\Plans\MT-111\_MCDOTBiPPA.dgn



LEGEND

- AREA UNDER CONSTRUCTION
- DRUMS
- TEMPORARY TRAFFIC SIGN AND SUPPORT
- EXISTING TRAFFIC FLOW ARROW
- PROPOSED TEMPORARY TRAFFIC FLOW ARROW
- TYPE III BARRICADE
- PROPOSED TEMPORARY SIGN
- EXISTING SIGN TO REMAIN
- EXISTING SIGN TO BE REMOVED OR COVERED



DWG. MT-12

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 DEPARTMENT OF TRANSPORTATION  
 100 EDISON PARK DRIVE  
 GAITHERSBURG, MARYLAND

CONTACT:  
 DIVISION OF TRANSPORTATION  
 ENGINEERING  
 240-777-7220  
 DESIGN SECTION  
 240-777-7221

NO.	REVISION	DATE	BY

MONTGOMERY COUNTY  
 DEPARTMENT OF TRANSPORTATION  
 ROCKVILLE, MARYLAND

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 SEE TITLE SHEET FOR SIGNATURE \_\_\_\_\_  
 Chief, Transportation Planning and Design Section Date \_\_\_\_\_

APPROVED  
 SEE TITLE SHEET FOR SIGNATURE \_\_\_\_\_  
 Chief, Division of Transportation Engineering Date \_\_\_\_\_

DESIGNED BY AF DRAWN BY AF CHECKED BY CJB

MONTGOMERY COUNTY  
 DEPARTMENT OF TRANSPORTATION  
 DIVISION OF TRANSPORTATION ENGINEERING

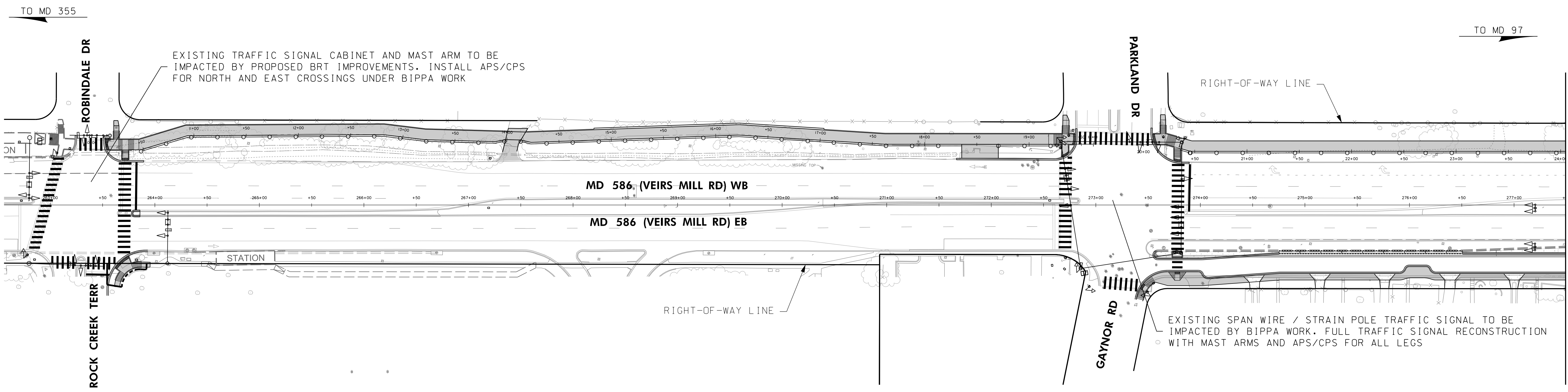
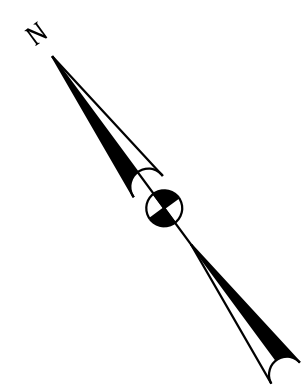
MD 586 (VEIRS MILL RD) BIKE AND PEDESTRIAN  
 PRIORITY AREA - WESTERN SECTOR

TRAFFIC CONTROL PLAN - PHASE 3

SCALE 1"=50' DATE JUNE 24, 2022

CONTRACT NO. 502003 SHEET NO. 31 OF 50

PLOTTER: e645242  
 FILE: \\vkkccom\1\A\Users\jck\Projects\2020\0907\_MCOOT\Temp\Task\_4 - BiPPA\_Veirs Mill\Civil\Plans\MT-12\_MCOOT\BPPA.dgn



EXISTING TRAFFIC SIGNAL CABINET AND MAST ARM TO BE IMPACTED BY PROPOSED BRT IMPROVEMENTS. INSTALL APS/CPS FOR NORTH AND EAST CROSSINGS UNDER BIPPA WORK





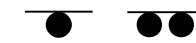
EXISTING SPAN WIRE / STRAIN POLE TRAFFIC SIGNAL TO BE IMPACTED BY BIPPA WORK. FULL TRAFFIC SIGNAL RECONSTRUCTION WITH MAST ARMS AND APS/CPS FOR ALL LEGS

MATCHLINE - SEE DWG NO. SN-2.02

**PAVEMENT MARKING LEGEND**

- A. 5 IN. SOLID WHITE THERMOPLASTIC PAVEMENT MARKING LINE
- B. 5 IN. SOLID YELLOW THERMOPLASTIC PAVEMENT MARKING LINE
- C. 5 IN. SKIP WHITE THERMOPLASTIC PAVEMENT MARKING LINE (10 FT. LINE, 30 FT. GAP)
- D. 5 IN. SKIP WHITE THERMOPLASTIC PAVEMENT MARKING LINE (3 FT. LINE, 9 FT. GAP)
- E. 24 IN. SOLID WHITE PERMANENT PREFORMED PAVEMENT MARKING LINE
- F. WHITE PREFORMED THERMOPLASTIC PAVEMENT MARKING ARROW/SYMBOL
- G. REMOVE EXISTING PAVEMENT MARKING LINE, ANY WIDTH (BY HYDROBLASTING)

**LEGEND**

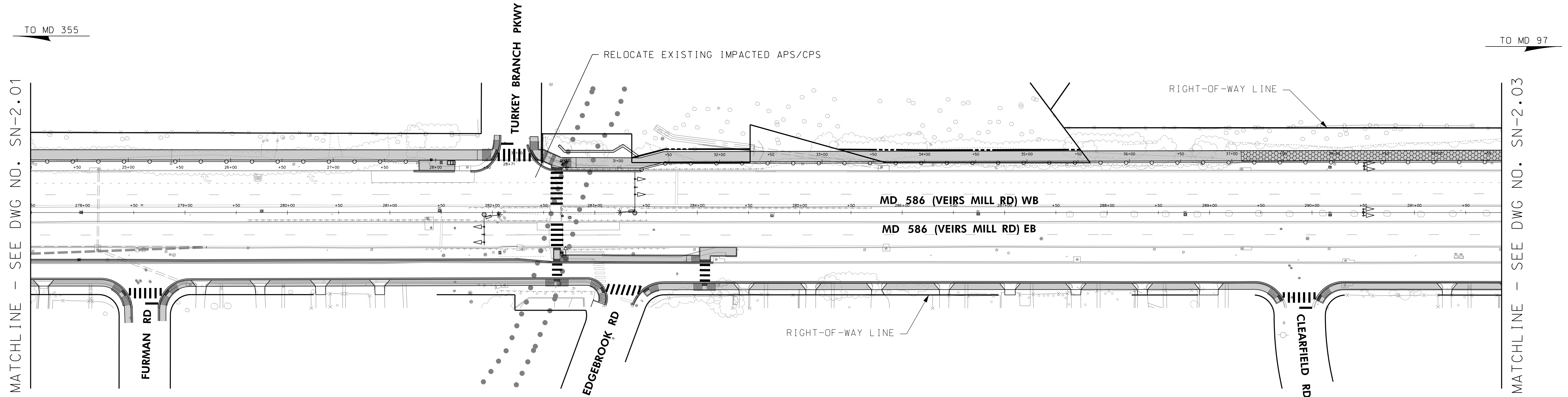
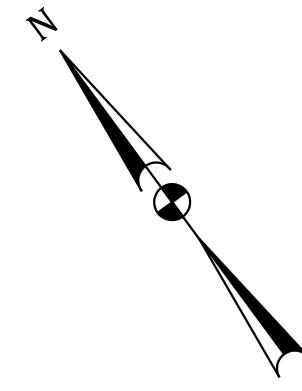
-  EXISTING SIGN TO REMAIN
-  EXISTING SIGN TO BE REMOVED
-  PROPOSED SIGN
-  EXISTING GROUND MOUNTED SIGN
-  PROPOSED GROUND MOUNTED SIGN






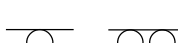
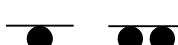
OFFICE OF TRAFFIC & SAFETY  
TRAFFIC ENGINEERING DESIGN DIVISION  
  
MD 586 (VEIRS MILL RD) BIKE  
AND PEDESTRIAN PRIORITY  
AREA - WESTERN SECTOR

SIGNING & PAVEMENT MARKING PLAN	
SCALE 1" = 50'	DATE JUNE 2022 CONTRACT NO. 502003
DESIGNED BY SJC	COUNTY MONTGOMERY
DRAWN BY SJC	LOGMILE
CHECKED BY WFW	TIMS NO.
MDE/PRD SEE TITLE SHEET	TOD NO.
DRAWING NO. SN-2.01 OF 3	SHEET NO. 32 OF 50

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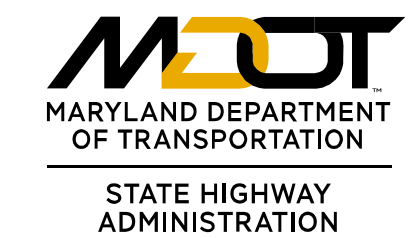


**LEGEND**

-  EXISTING SIGN TO REMAIN
-  EXISTING SIGN TO BE REMOVED
-  PROPOSED SIGN
-  EXISTING GROUND MOUNTED SIGN
-  PROPOSED GROUND MOUNTED SIGN

**PAVEMENT MARKING LEGEND**

- A. 5 IN. SOLID WHITE THERMOPLASTIC PAVEMENT MARKING LINE
- B. 5 IN. SOLID YELLOW THERMOPLASTIC PAVEMENT MARKING LINE
- C. 5 IN. SKIP WHITE THERMOPLASTIC PAVEMENT MARKING LINE (10 FT. LINE, 30 FT. GAP)
- D. 5 IN. SKIP WHITE THERMOPLASTIC PAVEMENT MARKING LINE (3 FT. LINE, 9 FT. GAP)
- E. 24 IN. SOLID WHITE PERMANENT PREFORMED PAVEMENT MARKING LINE
- F. WHITE PREFORMED THERMOPLASTIC PAVEMENT MARKING ARROW/SYMBOL
- G. REMOVE EXISTING PAVEMENT MARKING LINE, ANY WIDTH (BY HYDROBLASTING)



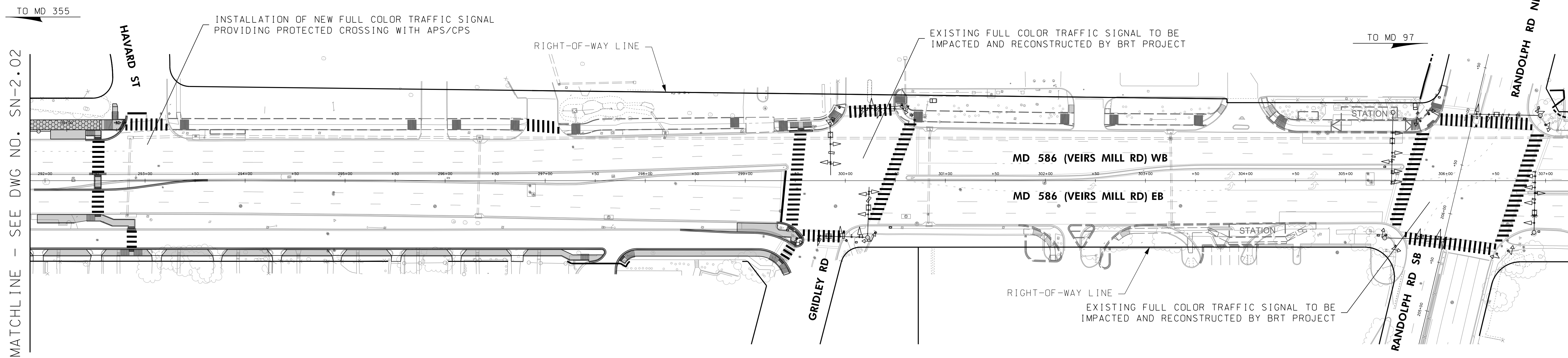
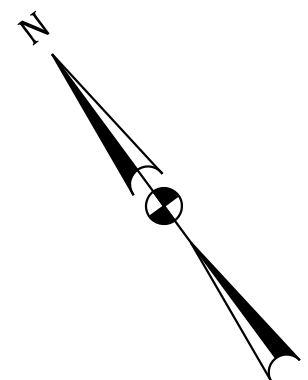
OFFICE OF TRAFFIC & SAFETY  
TRAFFIC ENGINEERING DESIGN DIVISION

MD 586 (VEIRS MILL RD) BIKE  
AND PEDESTRIAN PRIORITY  
AREA - WESTERN SECTOR

REVISIONS		SIGNING & PAVEMENT MARKING PLAN	
SCALE 1" = 50'		DATE JUNE 2022	CONTRACT NO. 502003
DESIGNED BY SJC	COUNTY MONTGOMERY		
DRAWN BY SJC	LOGMILE		
CHECKED BY WFW	TIMS NO.		
MDE/PRD SEE TITLE SHEET	TOD NO.		
DRAWING NO. SN-2.02	OF 3	SHEET NO. 33	OF 50

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BY: tmaik



MATCHLINE - SEE DWG NO. SN-2.02

**PAVEMENT MARKING LEGEND**

- A. 5 IN. SOLID WHITE THERMOPLASTIC PAVEMENT MARKING LINE
- B. 5 IN. SOLID YELLOW THERMOPLASTIC PAVEMENT MARKING LINE
- C. 5 IN. SKIP WHITE THERMOPLASTIC PAVEMENT MARKING LINE (10 FT. LINE, 30 FT. GAP)
- D. 5 IN. SKIP WHITE THERMOPLASTIC PAVEMENT MARKING LINE (3 FT. LINE, 9 FT. GAP)
- E. 24 IN. SOLID WHITE PERMANENT PREFORMED PAVEMENT MARKING LINE
- F. WHITE PREFORMED THERMOPLASTIC PAVEMENT MARKING ARROW/SYMBOL
- G. REMOVE EXISTING PAVEMENT MARKING LINE, ANY WIDTH (BY HYDROBLASTING)

**LEGEND**

- EXISTING SIGN TO REMAIN
- EXISTING SIGN TO BE REMOVED
- PROPOSED SIGN
- EXISTING GROUND MOUNTED SIGN
- PROPOSED GROUND MOUNTED SIGN

**MARYLAND DEPARTMENT OF TRANSPORTATION**  
STATE HIGHWAY ADMINISTRATION

OFFICE OF TRAFFIC & SAFETY  
TRAFFIC ENGINEERING DESIGN DIVISION

MD 586 (VEIRS MILL RD) BIKE AND PEDESTRIAN PRIORITY AREA - WESTERN SECTOR

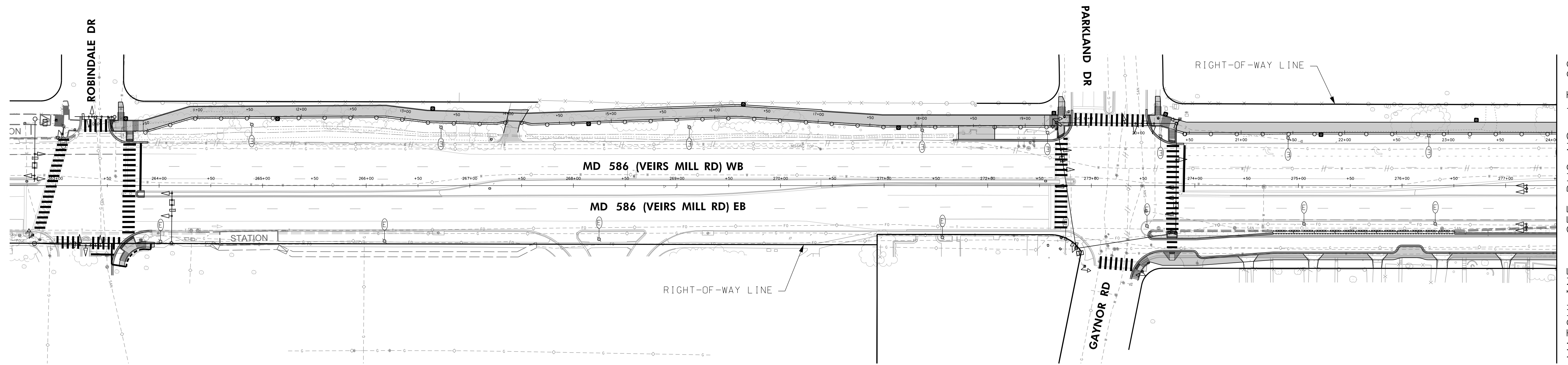
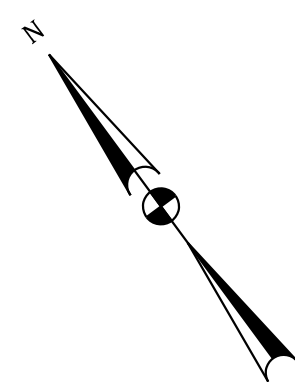
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	SCALE <u>1" = 50'</u>	DATE <u>JUNE 2022</u>	CONTRACT NO. <u>502003</u>
	DESIGNED BY <u>SJC</u>	COUNTY <u>MONTGOMERY</u>	
	DRAWN BY <u>SJC</u>	LOGMILE <u> </u>	
	CHECKED BY <u>WFV</u>	TIMS NO. <u> </u>	
	MDE/PRD <u>SEE TITLE SHEET</u>	TOD NO. <u> </u>	
	DRAWING NO. <u>SN-2.03</u>	OF <u>3</u>	SHEET NO. <u>34</u> OF <u>50</u>

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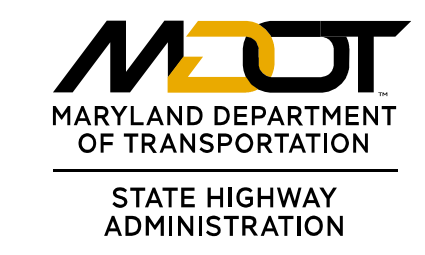
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MATCHLINE - SEE DWG NO. LT-02



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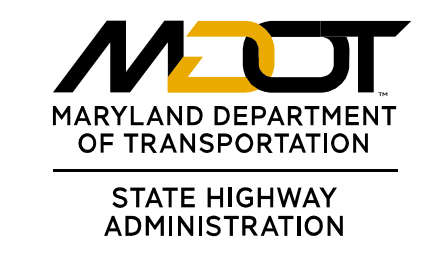
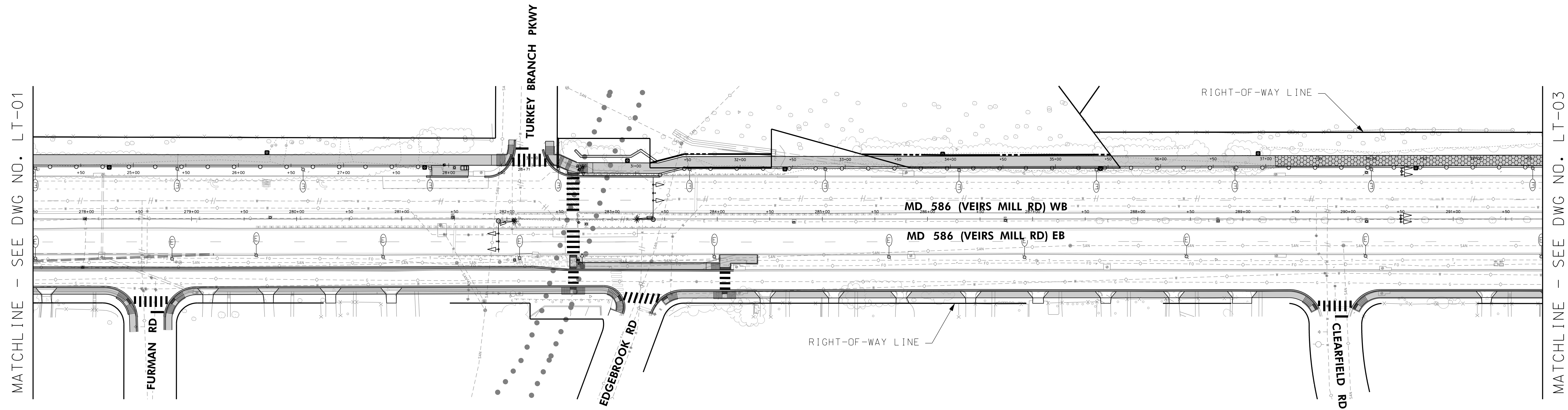
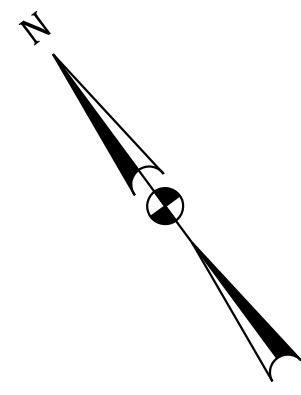
MD 586 (VEIRS MILL RD) BIKE  
AND PEDESTRIAN PRIORITY  
AREA - WESTERN SECTOR

REVISIONS		LIGHTING PLAN	
SCALE	1" = 50'	DATE	JUNE 2022
DESIGNED BY	SJC	COUNTY	MONTGOMERY
DRAWN BY	SJC	LOGMILE	
CHECKED BY	WFW	TIMS NO.	
MDE/PRD	SEE TITLE SHEET	TOD NO.	
DRAWING NO.	LT-01	OF	3
		SHEET NO.	35 OF 50

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BY: tmaik





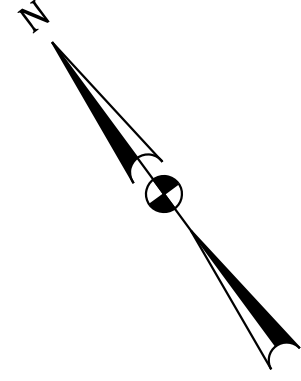
OFFICE OF TRAFFIC & SAFETY  
TRAFFIC ENGINEERING DESIGN DIVISION

MD 586 (VEIRS MILL RD) BIKE  
AND PEDESTRIAN PRIORITY  
AREA - WESTERN SECTOR

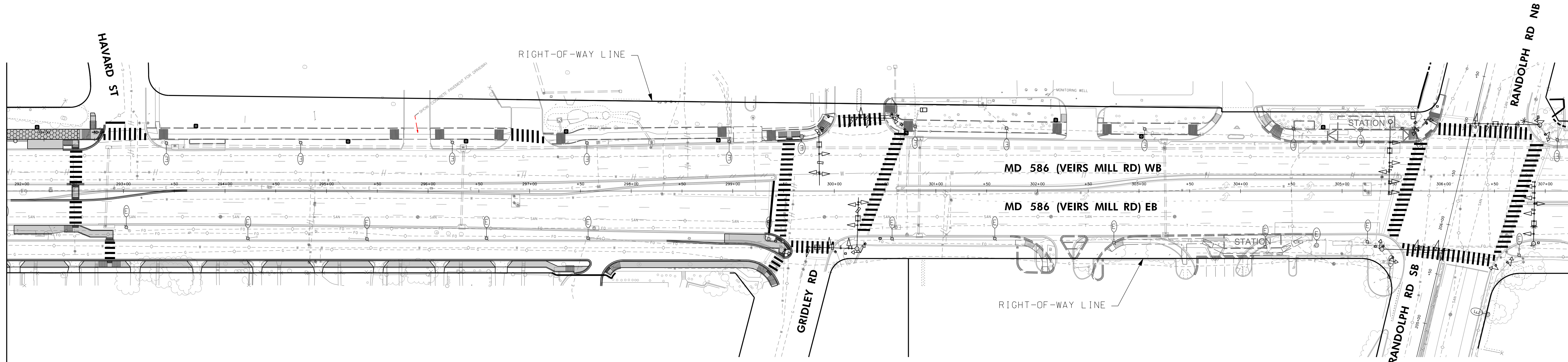
REVISIONS		LIGHTING PLAN	
SCALE 1" = 50'		DATE JUNE 2022	CONTRACT NO. 502003
DESIGNED BY SJC	COUNTY MONTGOMERY		
DRAWN BY SJC	LOGMILE		
CHECKED BY WFW	TIMS NO.		
MDE/PRD SEE TITLE SHEET	TOD NO.		
DRAWING NO. LT-02	OF 3	SHEET NO. 36	OF 50

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MATCHLINE - SEE DWG NO. LT-02



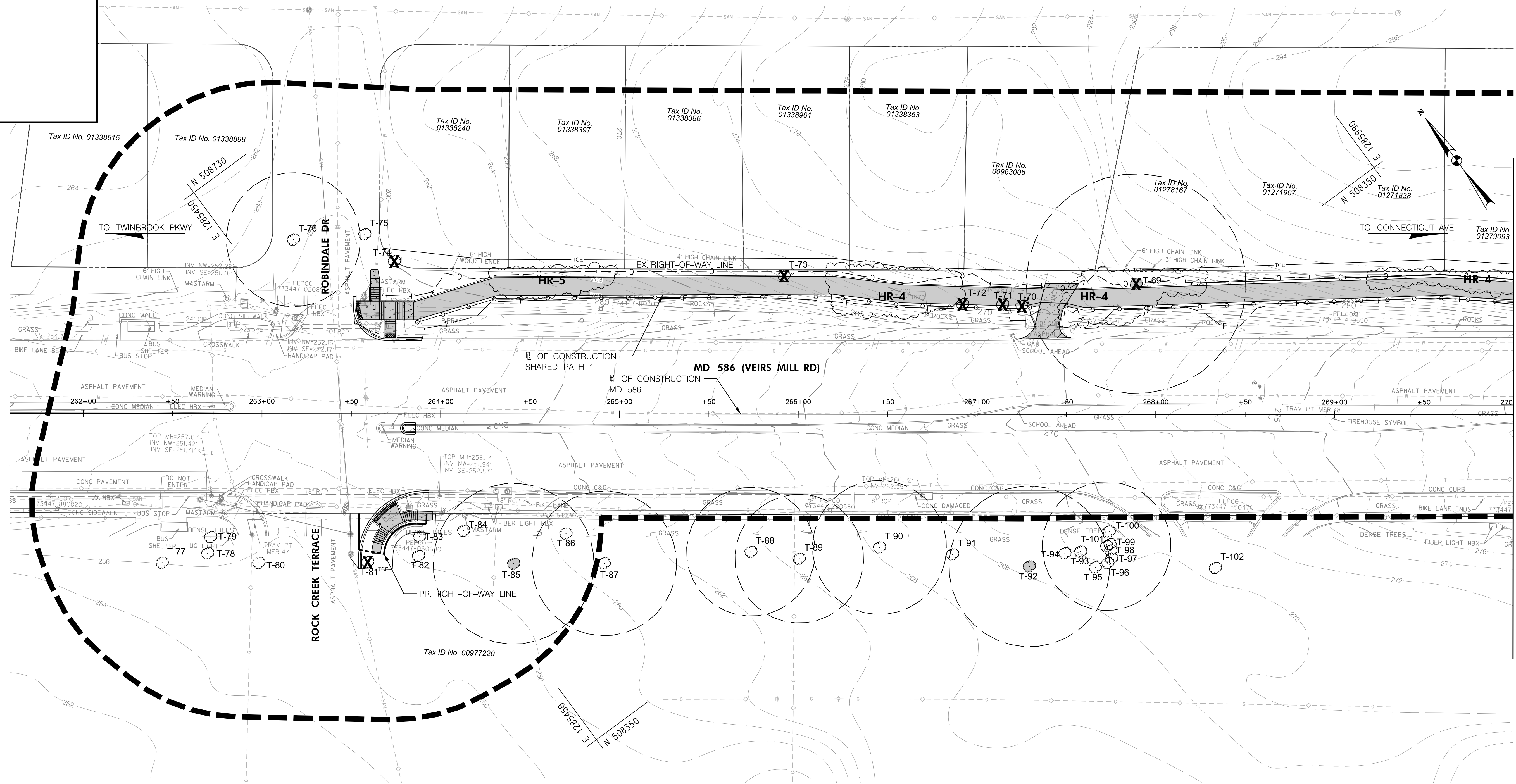
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 TRAFFIC ENGINEERING DESIGN DIVISION

MD 586 (VEIRS MILL RD) BIKE AND PEDESTRIAN PRIORITY AREA - WESTERN SECTOR

REVISIONS	LIGHTING PLAN		
	SCALE	DATE	CONTRACT NO.
	1" = 50'	JUNE 2022	502003
	DESIGNED BY	SJC	COUNTY
	DRAWN BY	SJC	LOGMILE
	CHECKED BY	WFV	TIMS NO.
	MDE/PRD	SEE TITLE SHEET	TOD NO.
	DRAWING NO.	LT-03	OF 3
			SHEET NO. 37 OF 50



MATCH LINE STA. 270+00, SEE TS-02

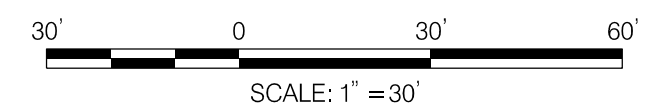
**NOTES:**

- SEE TS-07 FOR TREE PROTECTION DETAILS AND NOTES.
- SEE TS-08 THROUGH TS-11 FOR TREE INVENTORY TABLE
- TREE PROTECTION FENCE SHOWN OUTSIDE OF THE LOD FOR GRAPHICAL PURPOSES ONLY. TPF TO BE INSTALLED AS INDICATED ON ROOT PRUNING DETAIL SHOWN ON TS-07.
- THE PROJECT IS AT CONCEPT DESIGN AND AN LOD IS CURRENTLY UNAVAILABLE. THE CONCEPT DESIGN AND CUTFILL LINES WERE USED TO ESTIMATE ANTICIPATED TREE IMPACTS. AN LOD WILL BE DEVELOPED WITH THE E&S PLANS AT SEMI-FINAL DESIGN AND WILL BE INCLUDED ON THE TREE SAVE PLANS AT THAT TIME. DETAILED TREE PROTECTION MEASURES, INCLUDING TREE PROTECTION FENCING, ROOT PRUNING AND TREE PLANTING, WILL ALSO BE DEVELOPED AT SEMI-FINAL DESIGN ONCE AN LOD HAS BEEN DEVELOPED.

**LEGEND**

- T-103 SIGNIFICANT TREE WITH CRITICAL ROOT ZONE
- T-102 SPECIMEN TREE WITH CRITICAL ROOT ZONE
- T-244 INVENTORIED TREES
- TREE TO BE REMOVED
- TREE PROTECTION FENCE
- TPF SIGN
- SPECIMEN TREE SIGN
- TREE PLANTING
- STUDY BOUNDARY
- LIMIT OF CUT
- LIMIT OF FILL

- FS-1/HR-1 FOREST STAND/HEDGEROW LABEL
- EXTENT OF FOREST/HEDGEROW CANOPY
- EXTENT OF TREE CANOPY
- EXISTING CONTOURS
- EXISTING PROPERTY BOUNDARY
- PROPOSED PROPERTY BOUNDARY
- ASPHALT SHARED USE PATH
- CONCRETE SIDEWALK
- ASPHALT DRIVEWAY
- CONCRETE DRIVEWAY
- PERVIOUS ASPHALT SHARED USE PATH
- PERVIOUS CONCRETE SIDEWALK



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 GAITHERSBURG, MARYLAND

**CONTACT:**  
 DIVISION OF TRANSPORTATION  
 ENGINEERING  
 240-777-7237

NO.	REVISION	DATE	BY

MONTGOMERY COUNTY  
 DEPARTMENT OF TRANSPORTATION  
 ROCKVILLE, MARYLAND

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 Chief, Transportation Planning and Design Section

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 Chief, Division of Transportation Engineering

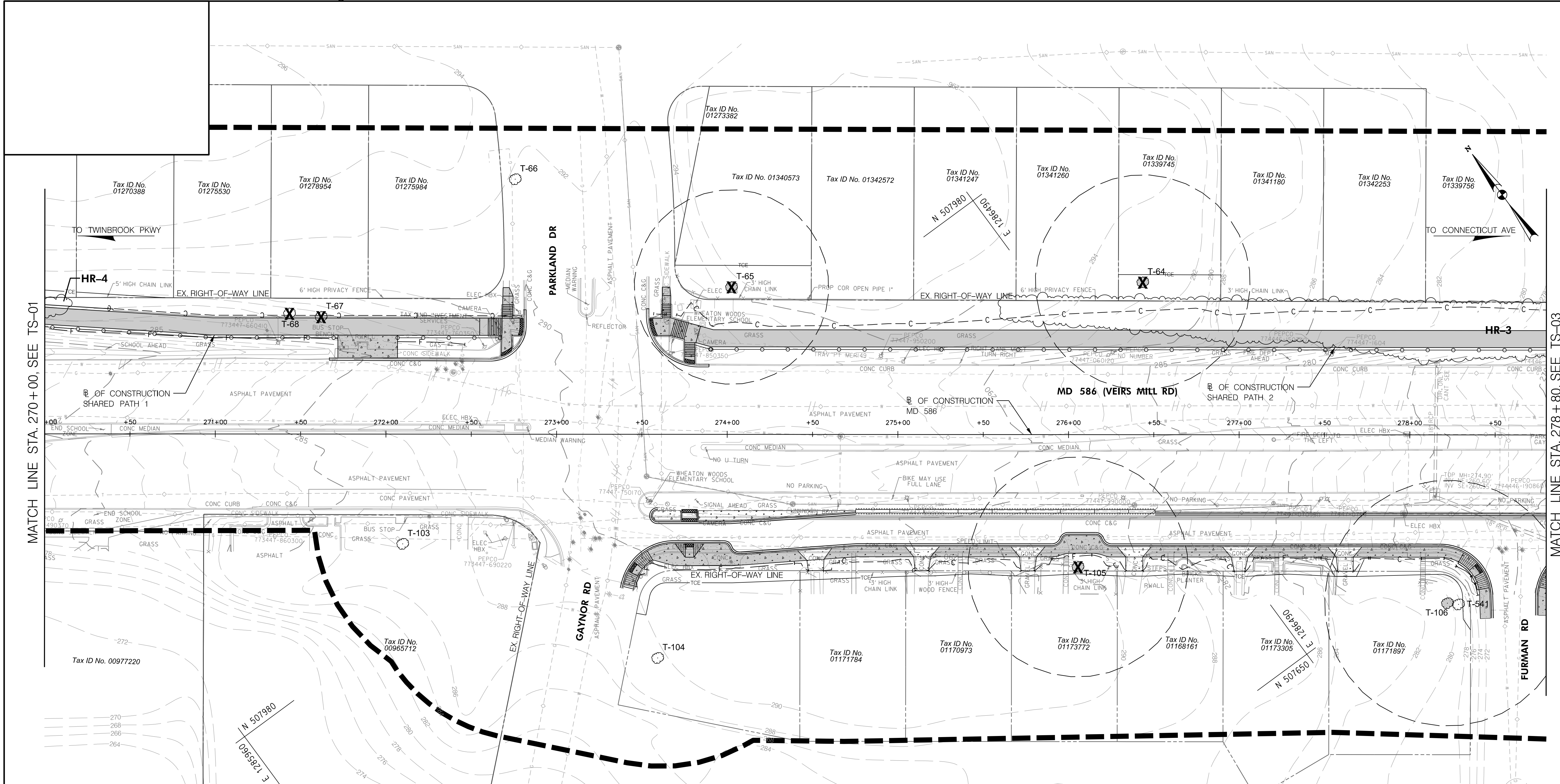
DESIGNED BY NLB DRAWN BY NLB CHECKED BY RL

MONTGOMERY COUNTY  
 DEPARTMENT OF TRANSPORTATION  
 DIVISION OF TRANSPORTATION ENGINEERING

MD 586 (VEIRS MILL RD) BIKE AND PEDESTRIAN  
 PRIORITY AREA - WESTERN SECTOR

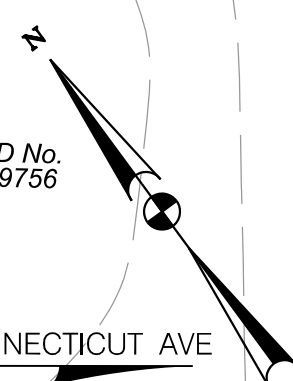
PRELIMINARY TREE SAVE PLAN  
 BASE MAP # 216NW05, 216NW04 TAX MAP # HQ123, HQ343  
 SCALE 1"=30' DATE JUNE 2022

CONTRACT NO. 502003 SHEET NO. 38 OF 50



MATCH LINE STA. 270+00, SEE TS-01

MATCH LINE STA. 278+80, SEE TS-03



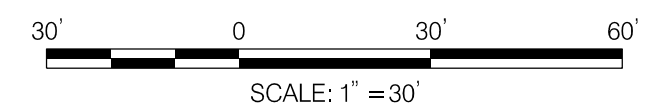
- NOTES:**
- SEE TS-07 FOR TREE PROTECTION DETAILS AND NOTES.
  - SEE TS-08 THROUGH TS-11 FOR TREE INVENTORY TABLE
  - TREE PROTECTION FENCE SHOWN OUTSIDE OF THE LOD FOR GRAPHICAL PURPOSES ONLY. TPF TO BE INSTALLED AS INDICATED ON ROOT PRUNING DETAIL SHOWN ON TS-07.
  - THE PROJECT IS AT CONCEPT DESIGN AND AN LOD IS CURRENTLY UNAVAILABLE. THE CONCEPT DESIGN AND CUTFILL LINES WERE USED TO ESTIMATE ANTICIPATED TREE IMPACTS. AN LOD WILL BE DEVELOPED WITH THE E&S PLANS AT SEMI-FINAL DESIGN AND WILL BE INCLUDED ON THE TREE SAVE PLANS AT THAT TIME. DETAILED TREE PROTECTION MEASURES, INCLUDING TREE PROTECTION FENCING, ROOT PRUNING AND TREE PLANTING WILL ALSO BE DEVELOPED AT SEMI-FINAL DESIGN ONCE AN LOD HAS BEEN DEVELOPED.

**LEGEND**

	T-103	SIGNIFICANT TREE WITH CRITICAL ROOT ZONE
	T-102	SPECIMEN TREE WITH CRITICAL ROOT ZONE
	T-244	INVENTORIED TREES
		TREE TO BE REMOVED
	TPF	TREE PROTECTION FENCE
		TPF SIGN
		SPECIMEN TREE SIGN
		TREE PLANTING
		STUDY BOUNDARY
	C	LIMIT OF CUT
	F	LIMIT OF FILL
		ASPHALT SHARED USE PATH
		CONCRETE SIDEWALK
		ASPHALT DRIVEWAY
		CONCRETE DRIVEWAY
		PERVIOUS ASPHALT SHARED USE PATH
		PERVIOUS CONCRETE SIDEWALK

**OWNER/ADDRESS:**  
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**CONTACT:**  
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 Chief, Transportation Planning and Design Section

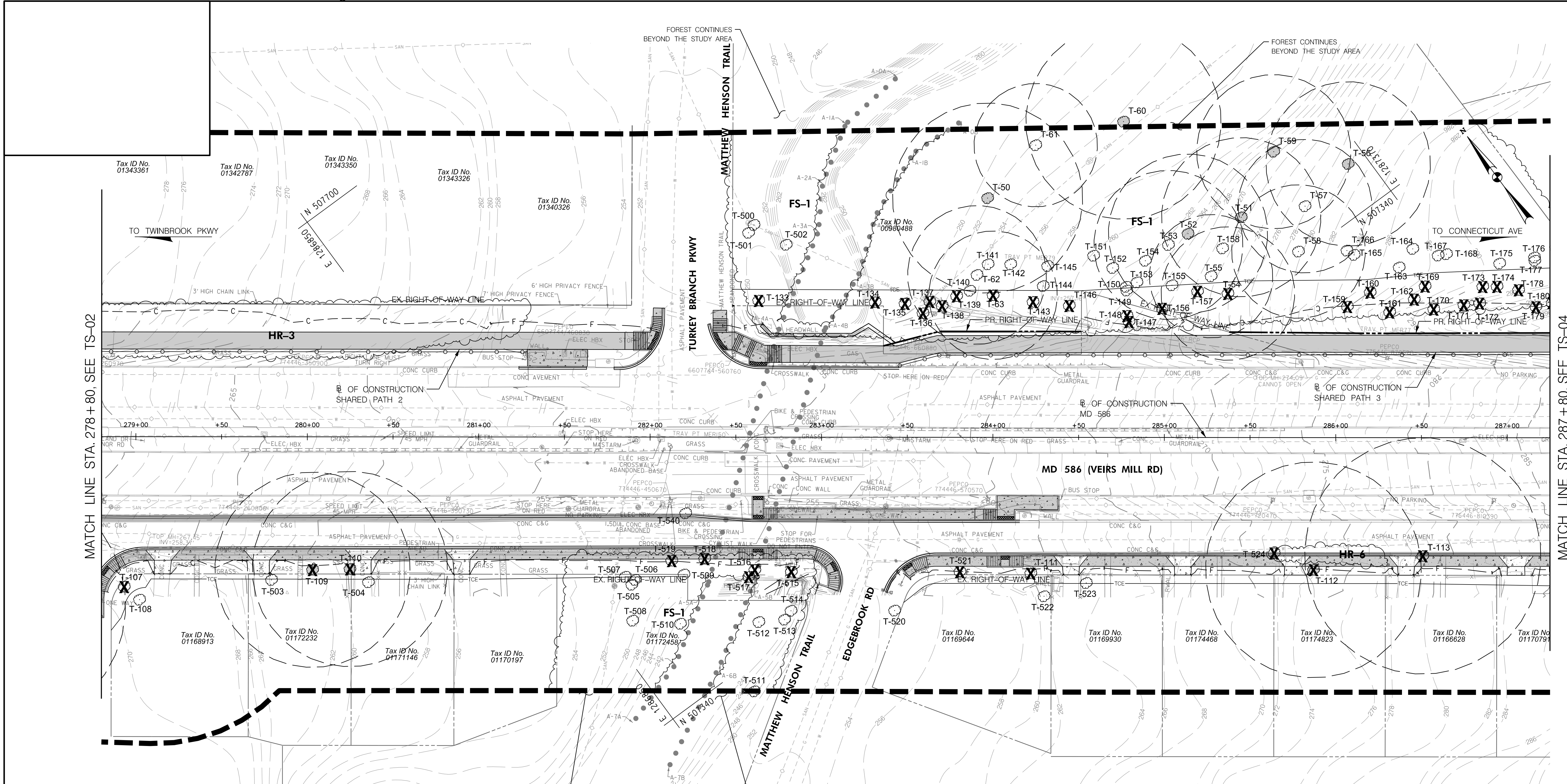
APPROVED  
 SEE TITLE SHEET FOR SIGNATURE \_\_\_\_\_ Date \_\_\_\_\_  
 Chief, Division of Transportation Engineering

MONTGOMERY COUNTY  
 DEPARTMENT OF TRANSPORTATION  
 DIVISION OF TRANSPORTATION ENGINEERING  
 MD 586 (VEIRS MILL RD) BIKE AND PEDESTRIAN  
 PRIORITY AREA - WESTERN SECTOR

PRELIMINARY TREE SAVE PLAN  
 BASE MAP # 216NW05, 216NW04 TAX MAP # HQ123, HQ343  
 SCALE 1"=30' DATE JUNE 2022

CONTRACT NO. 502003 SHEET NO. 39 OF 50

NO.	REVISION	DATE	BY



MATCH LINE STA. 278 + 80, SEE TS-02

MATCH LINE STA. 287 + 80, SEE TS-04

**NOTES:**

- SEE TS-07 FOR TREE PROTECTION DETAILS AND NOTES.
- SEE TS-08 THROUGH TS-11 FOR TREE INVENTORY TABLE.
- TREE PROTECTION FENCE SHOWN OUTSIDE OF THE LOD FOR GRAPHICAL PURPOSES ONLY. TPF TO BE INSTALLED AS INDICATED ON ROOT PRUNING DETAIL SHOWN ON TS-07.
- THE PROJECT IS AT CONCEPT DESIGN AND AN LOD IS CURRENTLY UNAVAILABLE. THE CONCEPT DESIGN AND CUTFILL LINES WERE USED TO ESTIMATE ANTICIPATED TREE IMPACTS. AN LOD WILL BE DEVELOPED WITH THE E&S PLANS AT SEMI-FINAL DESIGN AND WILL BE INCLUDED ON THE TREE SAVE PLANS AT THAT TIME. DETAILED TREE PROTECTION MEASURES, INCLUDING TREE PROTECTION FENCING, ROOT PRUNING AND TREE PLANTING, WILL ALSO BE DEVELOPED AT SEMI-FINAL DESIGN ONCE AN LOD HAS BEEN DEVELOPED.
- EXISTING WOODS - CONCEPT FLOORPLAN WAS DIGITIZED FROM MNCPPC MYLAR SHEET 10A AND SHOULD BE USED AS AN APPROXIMATE.

**LEGEND**

- T-103 SIGNIFICANT TREE WITH CRITICAL ROOT ZONE
- T-102 SPECIMEN TREE WITH CRITICAL ROOT ZONE
- T-244 INVENTORIED TREES
- Tree with 'X' symbol TREE TO BE REMOVED
- TPF TREE PROTECTION FENCE
- Star symbol TPF SIGN
- TP Tree PLANTING
- Thick dashed line STUDY BOUNDARY
- C LIMIT OF CUT
- F LIMIT OF FILL
- FS-1/HR-1 FOREST STAND/HEDGEROW LABEL
- Wavy line EXTENT OF FOREST/HEDGEROW CANOPY
- Dashed line EXTENT OF TREE CANOPY
- Dotted line EXISTING CONTOURS
- Long dashed line EXISTING PROPERTY BOUNDARY
- Short dashed line PROPOSED PROPERTY BOUNDARY
- Asphalt pattern ASPHALT SHARED USE PATH
- Concrete pattern CONCRETE SIDEWALK
- Diagonal lines ASPHALT DRIVEWAY
- Concrete pattern CONCRETE DRIVEWAY
- Permeous asphalt pattern PERVIOUS ASPHALT SHARED USE PATH
- Permeous concrete pattern PERVIOUS CONCRETE SIDEWALK

**OWNER/ADDRESS:**  
 MATT JOHNSON  
 MONTGOMERY COUNTY  
 DEPARTMENT OF TRANSPORTATION  
 100 EDISON PARK DRIVE  
 GAITHERSBURG, MARYLAND

**CONTACT:**  
 DIVISION OF TRANSPORTATION  
 ENGINEERING  
 240-777-7237

**MONTGOMERY COUNTY  
 DEPARTMENT OF TRANSPORTATION  
 ROCKVILLE, MARYLAND**

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 Chief, Transportation Planning and Design Section

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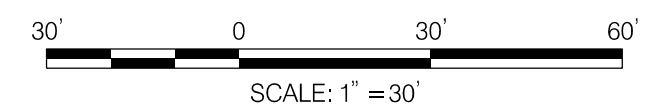
**MONTGOMERY COUNTY  
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 DIVISION OF TRANSPORTATION ENGINEERING**

MD 586 (VEIRS MILL RD) BIKE AND PEDESTRIAN  
 PRIORITY AREA - WESTERN SECTOR

**PRELIMINARY TREE SAVE PLAN**  
 BASE MAP # 216NW04 TAX MAP # HQ343  
 SCALE 1"=30' DATE JUNE 2022

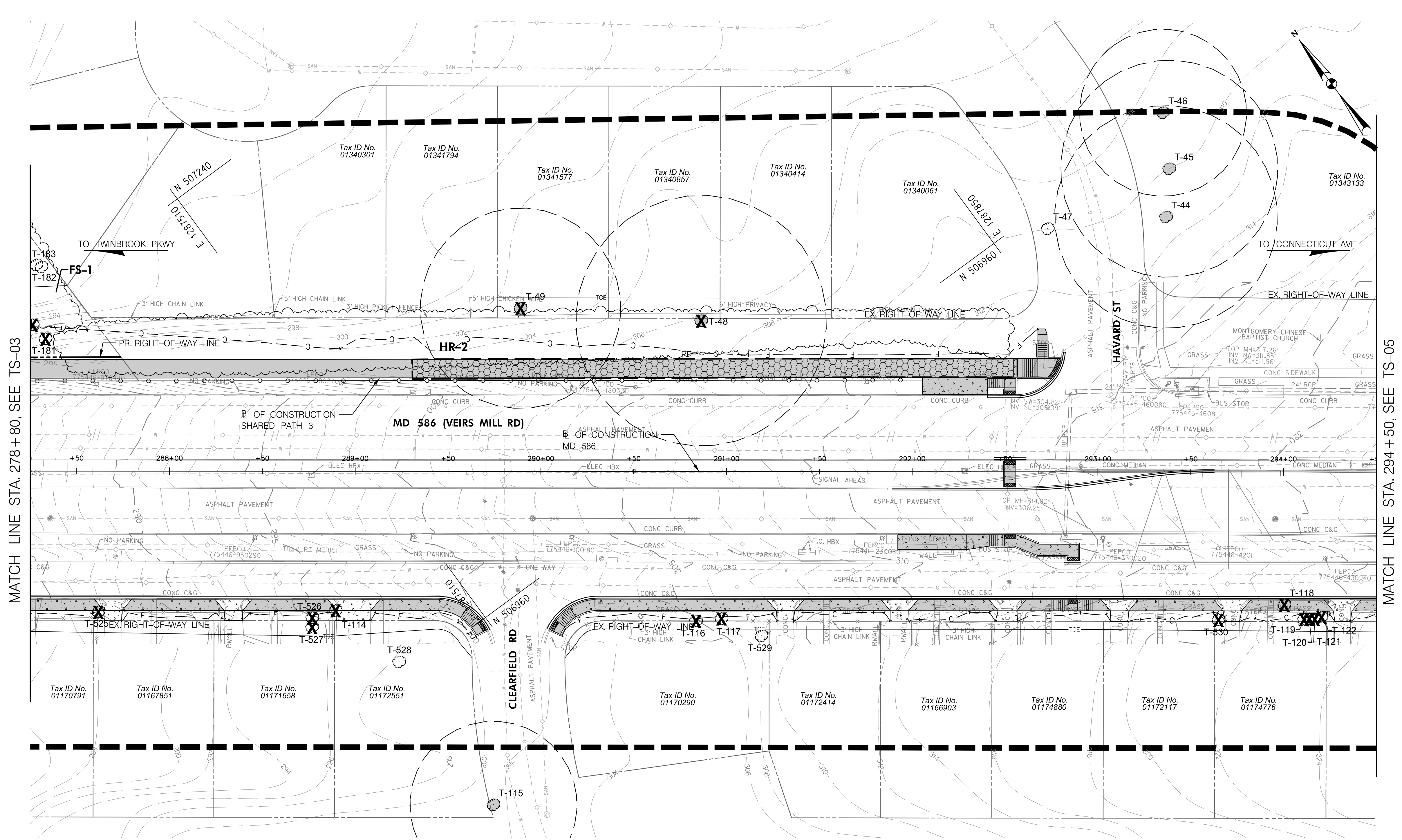
DESIGNED BY \_\_\_ DRAWN BY \_\_\_ CHECKED BY \_\_\_

CONTRACT NO. 502003 SHEET NO. 40 OF 50



DWG. TS-03

PLOTTER: 6/26/2022  
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MATCH LINE STA. 278 + 80. SEE TS-03

MATCH LINE STA. 294 + 50. SEE TS-05

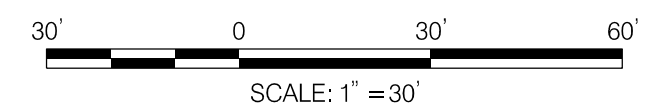
- NOTES:**
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  - SEE TS-08 THROUGH TS-11 FOR TREE INVENTORY TABLE
  - TREE PROTECTION FENCE SHOWN OUTSIDE OF THE LOD FOR GRAPHICAL PURPOSES ONLY. TPF TO BE INSTALLED AS INDICATED ON ROOT PRUNING DETAIL SHOWN ON TS-07.
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**LEGEND**

T-103		SIGNIFICANT TREE WITH CRITICAL ROOT ZONE	FS-1/HR-1		FOREST STAND/HEDGEROW LABEL
T-102		SPECIMEN TREE WITH CRITICAL ROOT ZONE			EXTENT OF FOREST/HEDGEROW CANOPY
T-244		INVENTORIED TREES			EXISTING CONTOURS
		TREE TO BE REMOVED			EXISTING PROPERTY BOUNDARY
		TREE PROTECTION FENCE			PROPOSED PROPERTY BOUNDARY
		TPF SIGN			ASPHALT SHARED USE PATH
		TREE PLANKING			CONCRETE SIDEWALK
		STUDY BOUNDARY			ASPHALT DRIVEWAY
		LIMIT OF CUT			CONCRETE DRIVEWAY
		LIMIT OF FILL			PERVIOUS ASPHALT SHARED USE PATH
					PERVIOUS CONCRETE SIDEWALK

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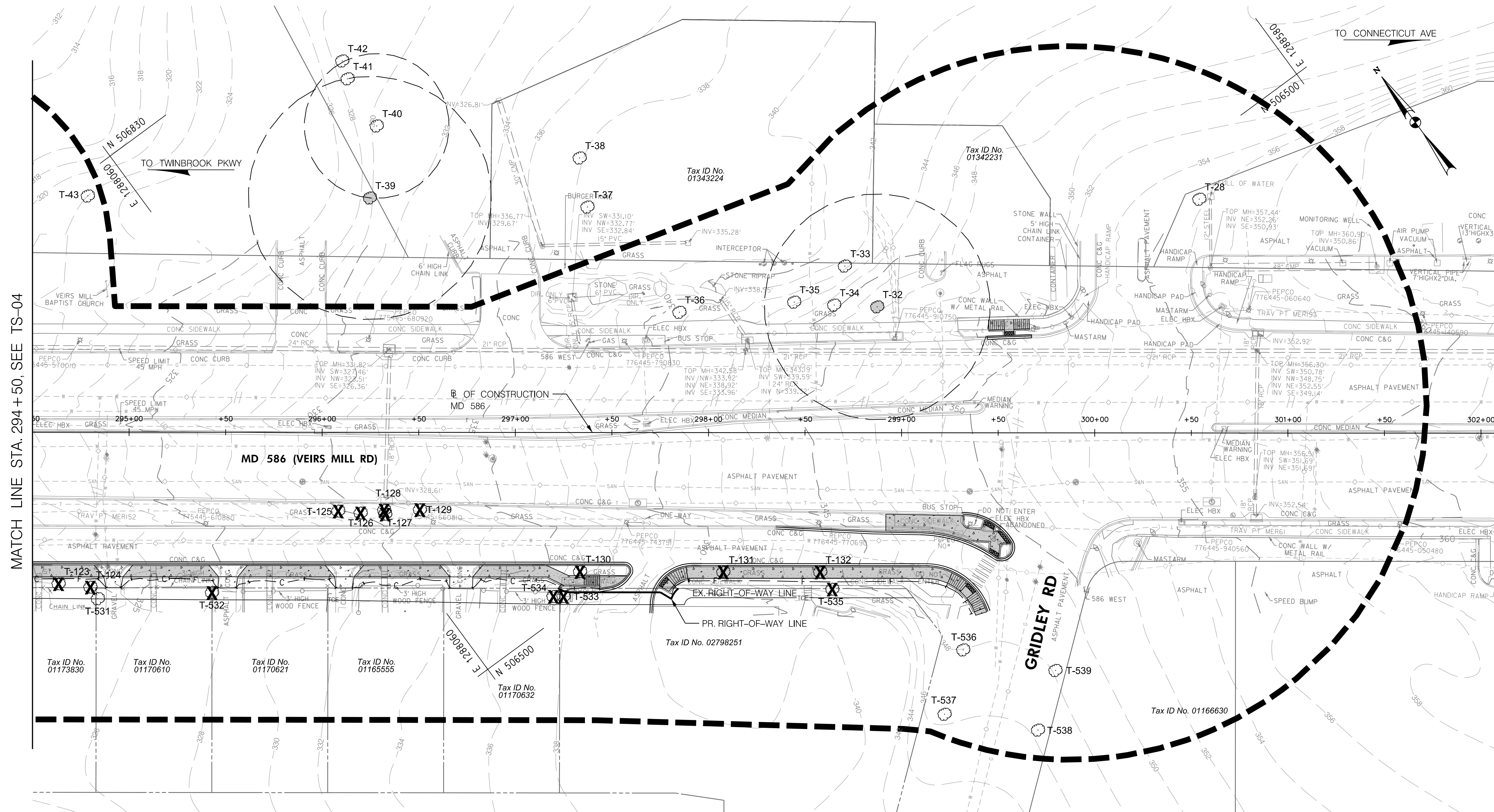
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MD 586 (VEIRS MILL RD) BIKE AND PEDESTRIAN  
 PRIORITY AREA - WESTERN SECTOR

PRELIMINARY TREE SAVE PLAN  
 BASE MAP # 216NW04 TAX MAP # HQ343  
 SCALE 1"=30' DATE JUNE 2022

CONTRACT NO. 502003 SHEET NO. 41 OF 50

NO.	REVISION	DATE	BY



MATCH LINE STA. 294+50, SEE TS-04

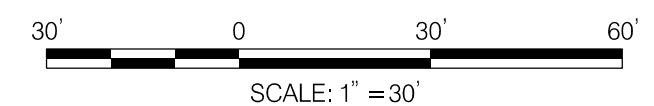
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**LEGEND**

T-103	SIGNIFICANT TREE WITH CRITICAL ROOT ZONE	FS-1/HR-1	FOREST STAND/HEDGEROW LABEL
T-102	SPECIMEN TREE WITH CRITICAL ROOT ZONE	(Wavy line)	EXTENT OF FOREST/HEDGEROW CANOPY
T-244	INVENTORIED TREES	(Dashed line)	EXTENT OF TREE CANOPY
(Circle with X)	TREE TO BE REMOVED	(Dotted line)	EXISTING CONTOURS
(Line with X)	TREE PROTECTION FENCE	(Dashed line)	EXISTING PROPERTY BOUNDARY
(Triangle)	TPF SIGN	(Dashed line)	PROPOSED PROPERTY BOUNDARY
(Star)	SPECIMEN TREE SIGN	(Grey fill)	ASPHALT SHARED USE PATH
(Circle with TP)	TREE PLANTING	(Light grey fill)	CONCRETE SIDEWALK
(Thick dashed line)	STUDY BOUNDARY	(Hatched fill)	ASPHALT DRIVEWAY
(Thin dashed line)	LIMIT OF CUT	(Dotted fill)	CONCRETE DRIVEWAY
(Thick solid line)	LIMIT OF FILL	(Cross-hatched fill)	PERVIOUS ASPHALT SHARED USE PATH
		(Grid pattern)	PERVIOUS CONCRETE SIDEWALK

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MD 586 (VEIRS MILL RD) BIKE AND PEDESTRIAN  
 PRIORITY AREA - WESTERN SECTOR

PRELIMINARY TREE SAVE PLAN  
 BASE MAP # 216NW04 TAX MAP # HQ343  
 SCALE 1"=30' DATE JUNE 2022

CONTRACT NO. 502003 SHEET NO. 42 OF 50

NO.	REVISION	DATE	BY



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**LEGEND**

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[Circle with X]	TREE TO BE REMOVED	[Dotted Line]	EXISTING CONTOURS
[Star]	TREE PROTECTION FENCE	[Dash-dot Line]	EXISTING PROPERTY BOUNDARY
[Triangle]	TPF SIGN	[Dashed Line]	PROPOSED PROPERTY BOUNDARY
[Star]	SPECIMEN TREE SIGN	[Grey Box]	ASPHALT SHARED USE PATH
[Circle]	TREE PLANTING	[Grey Box]	CONCRETE SIDEWALK
[Dashed Line]	LIMIT OF CUT	[Hatched Box]	ASPHALT DRIVEWAY
[Dashed Line]	LIMIT OF FILL	[Dotted Box]	CONCRETE DRIVEWAY
		[Patterned Box]	PERVIOUS ASPHALT SHARED USE PATH
		[Patterned Box]	PERVIOUS CONCRETE SIDEWALK

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MD 586 (VEIRS MILL RD) BIKE AND PEDESTRIAN PRIORITY AREA - WESTERN SECTOR

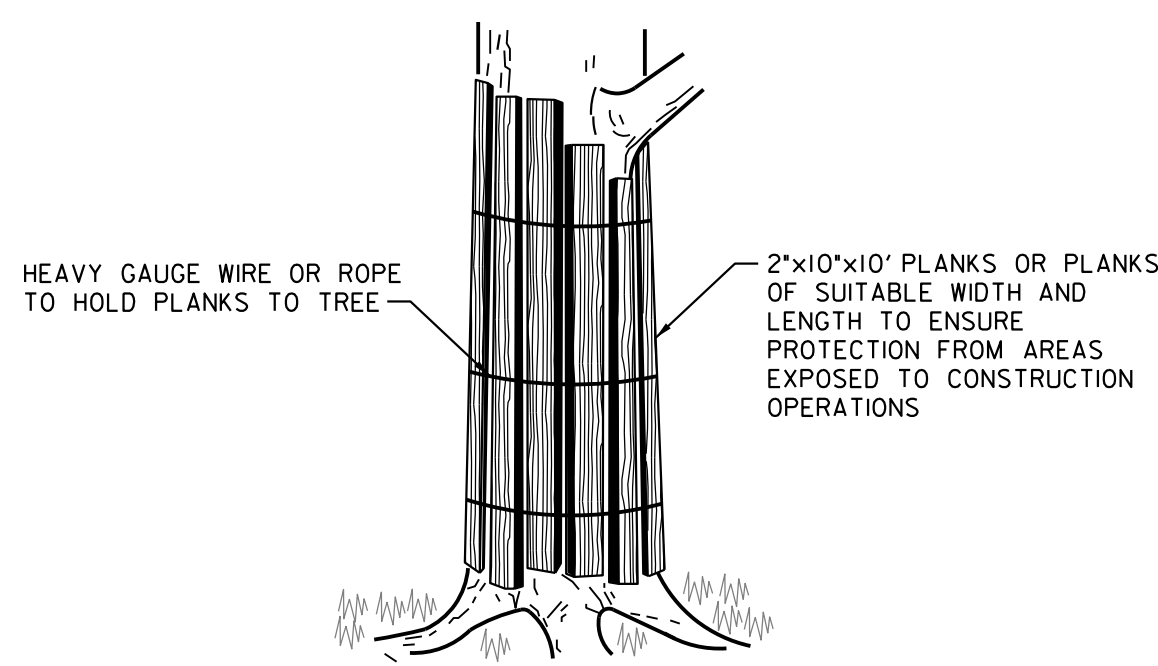
PRELIMINARY TREE SAVE PLAN  
 BASE MAP # 216NW04 TAX MAP # HQ343  
 SCALE 1"=30' DATE JUNE 2022

CONTRACT NO. 502003 SHEET NO. 43 OF 50

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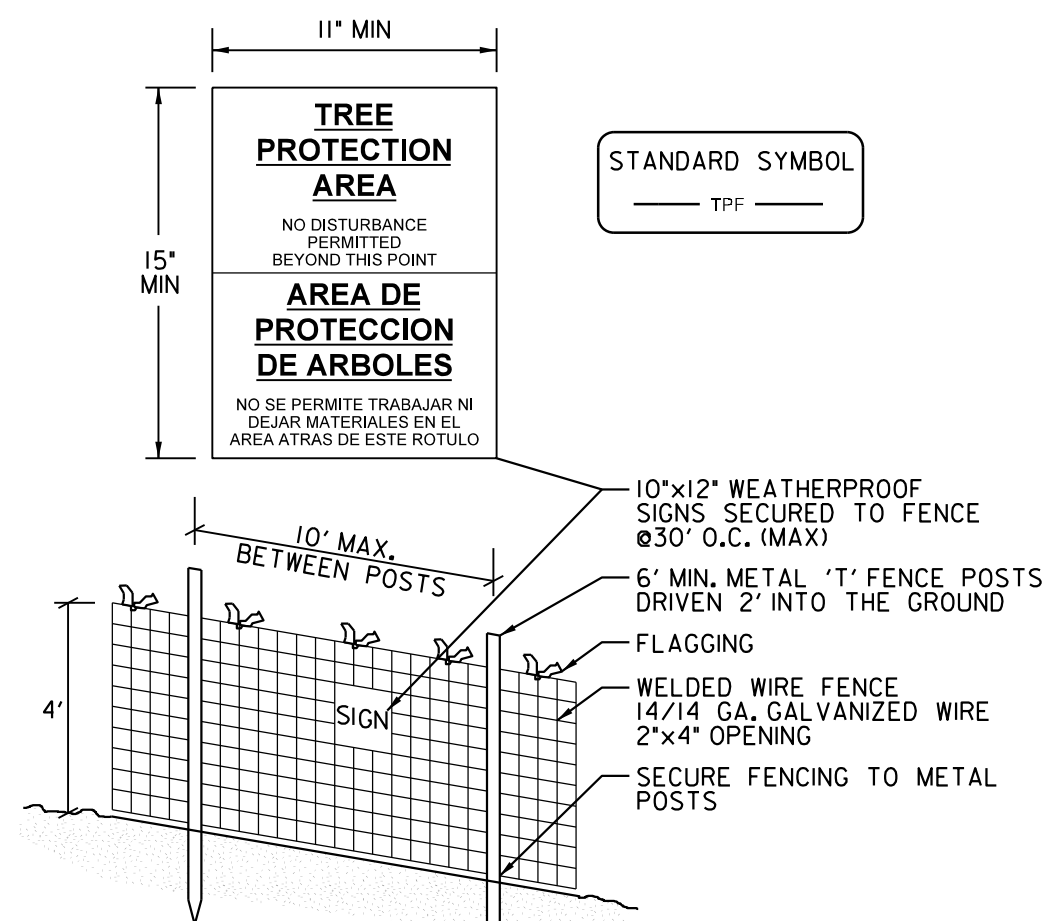
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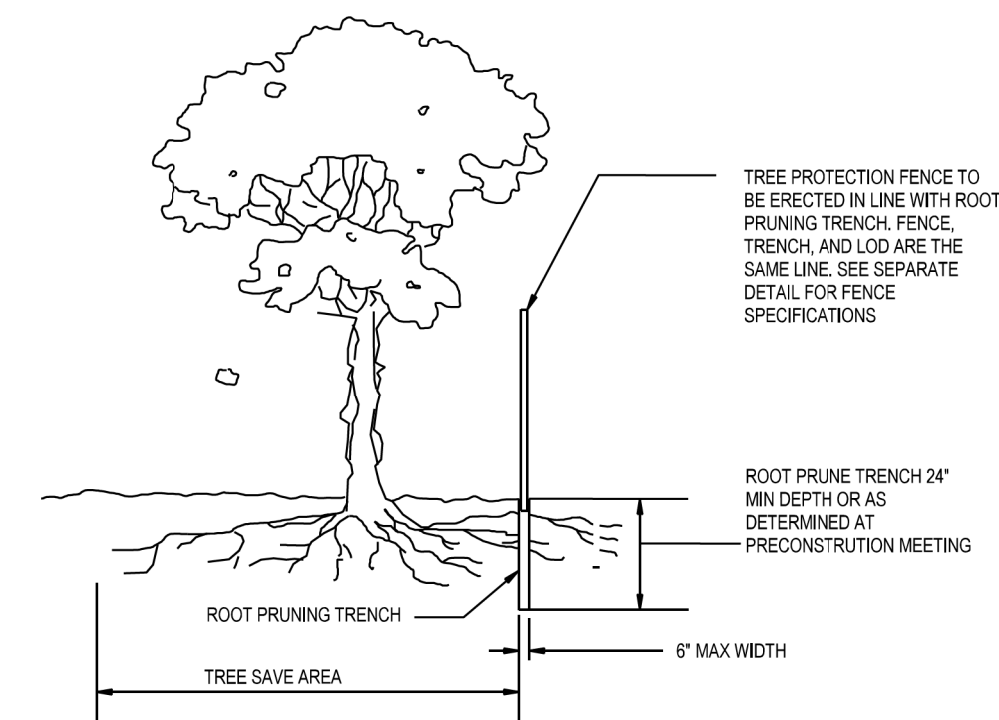


- NOTES:**
- TREE PLANKING TO BE PROVIDED PER PLAN. ADDITIONAL PLANKING MAY BE REQUIRED AS DIRECTED BY THE M-NCPPC INSPECTOR.
  - BOARDS OR POLES LASHED WITH ROPE OR WIRE IN AN UPRIGHT POSITION AGAINST THE TREE TRUNK. DO NOT NAIL OR STAPLE ANY PROTECTION DEVICES TO THE TREE.

**TREE PLANKING  
HEAVY TREE PROTECTION**  
NOT TO SCALE



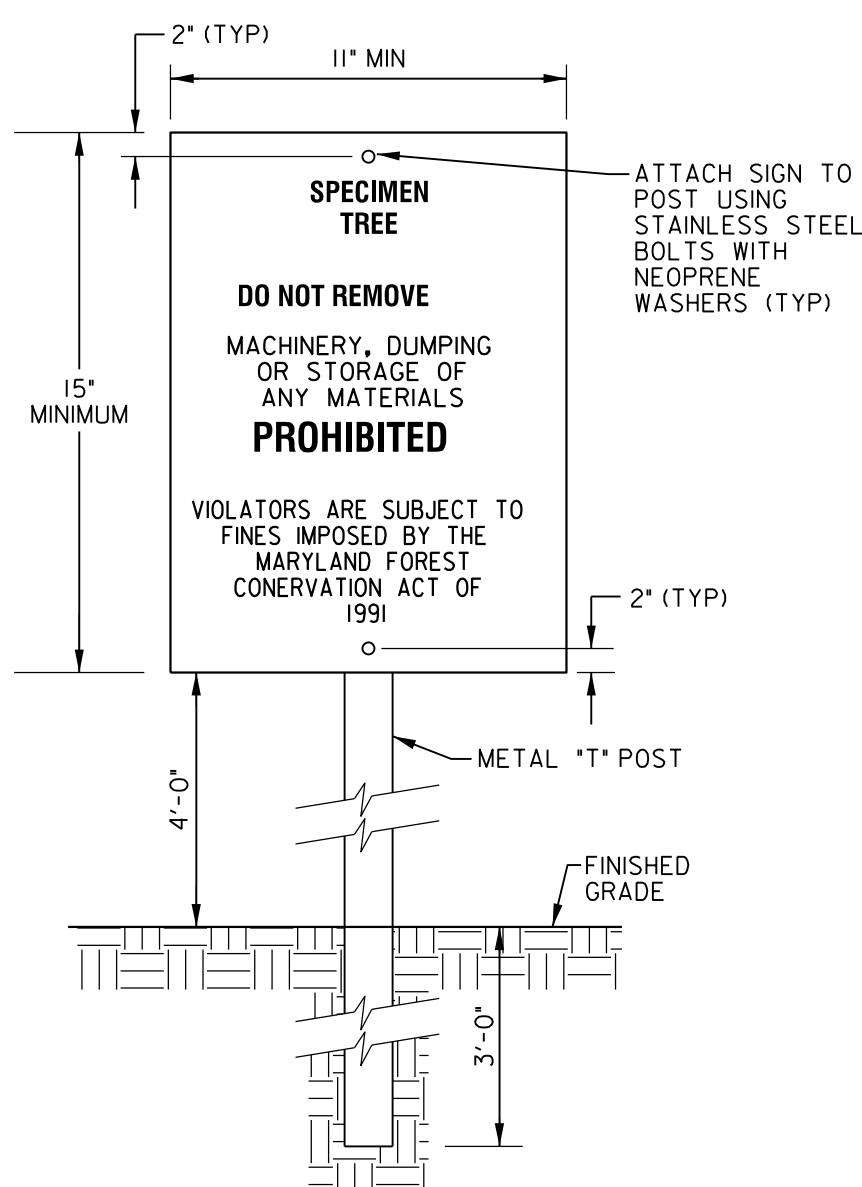
- TREE PROTECTION FENCE**  
NOT TO SCALE
- NOTES:**
- PRACTICE MAY BE COMBINED WITH SEDIMENT CONTROL FENCING.
  - LOCATION AND LIMITS OF FENCING SHALL BE COORDINATED IN FIELD WITH MARYLAND L.T.E.
  - BOUNDARIES OF PROTECTION AREA SHOULD BE STAKED PRIOR TO INSTALLING PROTECTIVE DEVICE.
  - ROOT DAMAGE SHOULD BE AVOIDED.
  - PROTECTIVE SIGNAGE IS REQUIRED.
  - FENCING SHALL BE MAINTAINED THROUGHOUT CONSTRUCTION.



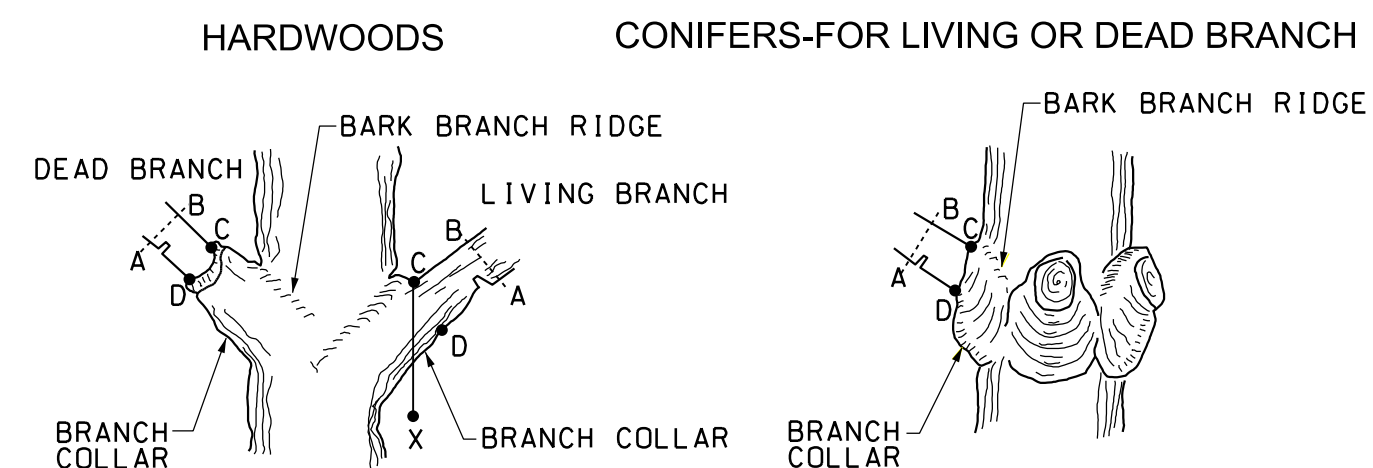
- NOTES:**
- RETENTION AREAS WILL BE SET AS PART OF THE REVIEW PROCESS AND PRECONSTRUCTION MEETING.
  - BOUNDARIES OF RETENTION AREAS MUST BE STAKED AT THE PRECONSTRUCTION MEETING AND FLAGGED PRIOR TO TRENCHING.
  - EXACT LOCATION OF TRENCH SHALL BE DETERMINED IN THE FIELD IN COORDINATION WITH THE FOREST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

**ROOT PRUNING DETAIL**  
NTS

- TSP NOTES:**
- ALL AREAS OUTSIDE OF THE LOD SHALL BE CONSIDERED FOREST/TREE PRESERVATION AREAS TO BE LEFT UNDISTURBED.
  - IT IS CURRENTLY ESTIMATED THAT TWO SIGNIFICANT (>24" DBH) TREES AND TEN SPECIMEN TREES (>30" DBH OR 75% OF STATE CHAMPIONS) WILL BE REMOVED. OTHER SIGNIFICANT AND SPECIMEN TREES HAVE SOME CRITICAL ROOT ZONE WITHIN THE LOD AND MAY REQUIRE SUPPLEMENTAL TREE PROTECTION MEASURES. THE EXACT QUANTITY OF TREE REMOVALS WILL BE DETERMINED WHEN THE PROJECT PROGRESSES TO FINAL DESIGN. ALL WORK ACTIVITIES NEAR THESE TREES SHALL BE SUPERVISED AND DIRECTED BY A MD LICENSED TREE EXPERT (LTE).
  - TREE SAVE PLANS PREPARED BY RICH LEFEBURE, CA, LTE, QP. FIELD DATA COLLECTED ON MARCH 8, 2021, MARCH 30, 2021 AND JUNE 7, 2022.
  - PROJECT AREA IS LOCATED WITHIN THE ROCK CREEK WATERSHED (MDE 8-DIGIT CODE 02140206) USE CLASS I.
  - APPROXIMATELY 32,989 SQUARE FEET (SF) OF FEDERAL EMERGENCY MANAGEMENT AGENCY (FEMA) 100-YEAR FLOODPLAIN (PANEL NUMBER 24031C0365D) FALLS WITHIN THE PROJECT STUDY AREA, ACCORDING TO FEMA AND MONTGOMERY COUNTY GIS DATA.
  - ONE WATERWAY AND NO WETLANDS WERE FIELD DELINEATED WITHIN THE STUDY AREA. NWI AND DNR WETLAND INVENTORY MAPPING INDICATES THAT THERE ARE NO WETLANDS OR WATERS WITHIN THE STUDY AREA.
  - ON APRIL 29, 2021, A USFWS IPAC ONLINE DATABASE QUERY INDICATED THAT THE FEDERALLY THREATENED NORTHERN LONG-EARED BAT (NLEB) MAY OCCUR IN THE PROJECT STUDY AREAS. THE USFWS DETERMINATION KEY FOR THIS SPECIES CONFIRMED THAT THERE ARE NO HABITAT CONCERNS FOR THE NLEB SINCE FOREST CLEARING FOR THIS PROJECT WILL NOT EXCEED 15 ACRES. THEREFORE, NO FURTHER COORDINATION WITH USFWS IS REQUIRED.
  - REQUESTS FOR INFORMATION ON THE PRESENCE OF FISHERIES RESOURCES AND RTE SPECIES WERE SENT TO THE MARYLAND DEPARTMENT OF NATURAL RESOURCES ENVIRONMENTAL REVIEW PROGRAM (MDNR-ERP) AND WILDLIFE AND HERITAGE SECTION (MDNR-WH) ON MAY 7, 2021. MDNR-ERP RESPONDED IN AN EMAIL ON MAY 13, 2021, INDICATING THAT THEY WILL NO LONGER BE PROVIDING PRE-APPLICATION SCREENING AND RECOMMENDED THAT APPLICANTS SELF-SCREEN USING THEIR NEW WEB-BASED TOOL. MDNR-PRD'S SELF-SCREENING TOOL INDICATED THAT THE ONLY RESOURCE WITHIN THE PROJECT STUDY AREA IS A USE I STREAM. IN-STREAM WORK IS PROHIBITED IN USE I STREAMS FROM MARCH 1 THROUGH JUNE 15, INCLUSIVE DURING ANY YEAR. A RESPONSE FROM MDNR-WH WAS RECEIVED ON JUNE 30, 2021, INCLUDING COMMENTS FROM MDNR-ERP, INDICATING THAT THERE ARE NO OFFICIAL STATE OR FEDERAL RECORDS FOR LISTED PLANT OR ANIMAL SPECIES WITHIN THE PROJECT AREAS. NO FURTHER COORDINATION WITH MDNR-WH AND MDNR-ERP IS REQUIRED. NO RTE SPECIES WERE OBSERVED ON SITE DURING FIELD INVESTIGATIONS.
  - A REQUEST FOR INFORMATION ON THE PRESENCE OF CULTURAL AND HISTORIC RESOURCES WAS SENT TO THE MARYLAND HISTORICAL TRUST (MHT) ON APRIL 13, 2021. A RESPONSE WAS RECEIVED ON APRIL 15, 2021, INDICATING THAT THERE ARE NO HISTORIC PROPERTIES AFFECTED BY THIS PROJECT UNDERTAKING AND NO FURTHER COORDINATION WITH MHT IS REQUIRED. IT IS ANTICIPATED THAT THE PROJECT WILL USE FEDERAL FUNDING AND SECTION 106 COORDINATION WILL BE REQUIRED. THIS COORDINATION IS PENDING.
  - THE PURPOSE OF THIS PROJECT IS TO DEVELOP A NEW SHARED USE BICYCLE/PEDESTRIAN PATH AND SIDEWALK, INCLUDING INTERSECTION, SIGNAL, SIGNING, PAVEMENT MARKING, AND LIGHTING IMPROVEMENTS ALONG 4,200 LINEAR FEET OF VEIRS MILL ROAD BETWEEN ROBINDALE DRIVE AND RANDOLPH ROAD, AND ALONG 400 FEET OF RANDOLPH ROAD BETWEEN VEIRS MILLS ROAD AND SELFRIDGE ROAD.
  - THE LOCATION OF ACTUAL TREE PROTECTION MEASURES, INCLUDING TREE PROTECTION FENCING, ROOT PRUNING, HEAVY TREE PROTECTION, AND AIR SPADING, WILL BE DETERMINED WHEN THE PROJECT PROGRESSES TO FINAL DESIGN.

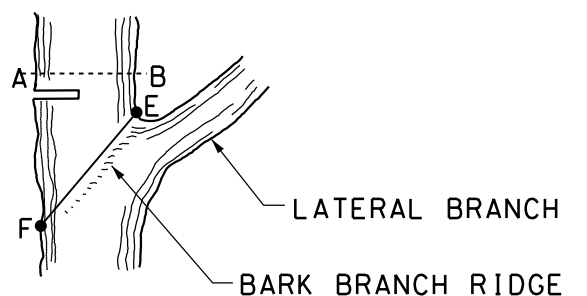


- TREE PROTECTION SIGN DETAIL**  
N.T.S.
- Notes:**
- Bottom of signs to be higher than top of tree protection fence.
  - Attachment of signs to tree is prohibited.
  - Attach signs to metal T-posts or directly to tree protection fence.
- Source: Adapted from Forest Conservation Manual, 1991



- Notes:**
- Remove branch weight by undercutting at A and remove limb by cutting through AB.
  - Remove stub at CD (line between branch bark ridge and outer edge of branch collar).
  - If D is difficult to find on hardwoods, angle of CD to trunk should be the reflective angle of the bark branch ridge to the trunk.
  - Only prune at specified times.
  - Remove no more than 30% of crown at one time.

**PRUNING A BRANCH**  
N.T.S.



- Notes:**
- Remove top weight by undercutting at A and remove limb by cutting through AB.
  - Remove stub at EF parallel to the bark branch ridge.
  - Only prune at specified times.
  - No more than 30% of the crown to be removed at one time.
  - Diameter of lateral branch should be no less than 30% of the diameter of the leader.

**PRUNING A LEADER TO REDUCE SIZE**  
N.T.S.

Source: Adapted from Steve Clark & Associates/ACRT, Inc.

**Sequence of Events for Properties Required to Comply With Forest Conservation Plans, Exemptions from Submitting Forest Conservation Plans, and Tree Save Plans**

The property owner is responsible for ensuring all tree protection measures are performed in accordance with the approved final forest conservation plan or tree save plan, and as modified in the field by a Planning Department Forest Conservation Inspector. The measures must meet or exceed the most recent standards published by the American National Standards Institute (ANSI A300).

**Pre-Construction**

- An on-site pre-construction meeting is required after the limits of disturbance have been staked and flagged and before any land disturbance.
  - Chain link fence (four feet high)
  - Super silt fence with wire strung between the support poles (minimum 4 feet high) with high visibility flagging.
  - 14 gauge, 2 inch x 4 inch welded wire fencing supported by steel T-bar posts (minimum 4 feet high) with high visibility flagging.
- The property owner must arrange for the meeting and following people must participate at the pre-construction meeting: the property owner or their representative, construction superintendent, International Society of Arboriculture (ISA) certified arborist/Maryland Licensed Tree Expert (representing owner) that will implement the tree protection measures, The Planning Department Forest Conservation Inspector, and Montgomery County Department of Permitting Services (DPS) Sediment Control Inspector. The purpose of this meeting is to verify the limits of disturbance and discuss specific tree protection and tree care measures shown on the approved plan. No land disturbance shall begin before tree protection and stress-reduction measures have been implemented and approved by the Planning Department's Forest Conservation Inspector.
  - Typical tree protection devices include:
    - Chain link fence (four feet high)
    - Super silt fence with wire strung between the support poles (minimum 4 feet high) with high visibility flagging.
    - 14 gauge, 2 inch x 4 inch welded wire fencing supported by steel T-bar posts (minimum 4 feet high) with high visibility flagging.
  - Typical stress reduction measures may include, but are not limited to:
    - Root pruning with a root cutter or vibratory plow designed for that purpose. Trenchers are not allowed, unless approved by the Forest Conservation Inspector
    - Crown Reduction or pruning
    - Watering
    - Fertilizing
    - Vertical mulching
    - Root aeration systems

Measures not specified on the Tree Save Plan may be required as determined by the Forest Conservation Inspector in coordination with the property owner's arborist.

- A Maryland Licensed Tree expert must perform, or directly supervise, the implementation of all stress reduction measures. Documentation of the process (including photographs) may be required by the Forest Conservation Inspector, and will be determined at the pre-construction meeting.
- Temporary tree protection devices must be installed per the approved Forest Conservation Plan, Exemption Plan, or Tree Save Plan and prior to any land disturbance. The Forest Conservation Inspector, in coordination with the DPS Sediment Control Inspector, may make field adjustments to increase the survivability of trees and forest shown as saved on the approved plan.

- Tree protection fencing must be installed and maintained by the property owner for the duration of construction project and must not be altered without prior approval from the Forest Conservation Inspector. All construction activity within protected tree and forest areas is prohibited. This includes the following activities:
  - Parking or driving of equipment, machinery or vehicles of any type.
  - Storage of any construction materials, equipment, stockpiling, fill, debris, etc.
  - Dumping of any chemicals (i.e., paint thinner), mortar or concrete remainder, trash, garbage, or debris of any kind.
  - Felling of trees into a protected area.
  - Trenching or grading for utilities, irrigation, drainage, etc.

- Forest and tree protection signs must be installed as required by the Forest Conservation Inspector. The signs must be waterproof and wording provided in both English and Spanish. During Construction
- Periodic inspections will be made by the Forest Conservation Inspector. Corrections and repairs to tree protection devices must be completed within the timeframe given by the Inspector.
- The property owner must immediately notify the Forest Conservation Inspector of any damage to trees, forests, understory, ground cover, and any other undisturbed areas shown on the approved plan. Remedial actions, and the relative timeframes to restore these areas, will be determined by the Forest Conservation Inspector.

**Post-Construction**

- After construction is completed, but before tree protection devices have been removed, the property owner must request a final inspection with the Forest Conservation Inspector. At the final inspection, the Forest Conservation Inspector may require additional corrective measures, which may include:
  - Removal, and possible replacement, of dead, dying, or hazardous trees
  - Pruning of dead or declining limbs
  - Soil aeration
  - Fertilization
  - Watering
  - Wound repair
  - Clean up of retention areas, including trash removal
- After the final inspection and completion of all corrective measures the Forest Conservation Inspector will request all temporary tree and forest protection devices be removed from the site. Removal of tree protection devices that also operate for erosion and sediment control must be coordinated with both DPS and the Forest Conservation Inspector and cannot be removed without permission of the Forest Conservation Inspector. No additional grading, sodding, or burial may take place after the tree protection fencing is removed.
- Long-term protection measures, including permanent signage, must be installed per the approved plan. Installation will occur at the appropriate time during the construction project. Refer to the approved plan drawing for the long-term protection measures to be installed.

DWG. TS-07

PLOT NO: 6496269  
 FILE: \\vskccm01\A\Users\jchen\Projects\2020\30907\_MCDOT\Temp\Task\_4 - BiPPA\_Veirs Mill\CAD\Plans\15-Tri\_MCDOT\BPPA.dgn

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NO.	REVISION	DATE	BY

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MONTGOMERY COUNTY  
 DEPARTMENT OF TRANSPORTATION  
 DIVISION OF TRANSPORTATION ENGINEERING

MD 586 (VEIRS MILL RD) BIKE AND PEDESTRIAN  
 PRIORITY AREA - WESTERN SECTOR

PRELIMINARY TREE SAVE DETAILS AND NOTES

SCALE NONE DATE JUNE 2022

CONTRACT NO. 502003 SHEET NO. 44 OF 50

FOREST STANDS						
NRI Plan Sheet #	Feature ID	Association	Area	Condition	Priority, Retention, and Regeneration Ratings	
NR-03	FS-1	Tulip Poplar Association Forest	59,677 SF / 1.37 AC	Fair Condition	Priority 2	Moderate-high retention value due to its function as a riparian buffer for Turkey Branch (Waters A) and high regeneration potential due to its proximity to a large and intact forest within Matthew Henson State Park.

TREE TABLE

Tree ID	Remove	Scientific Name	Common Name	DBH (inches)	CRZ (feet)	Condition	Specimen or Significant Tree	Comments
T-1		<i>Lagerstroemia indica</i>	Crapemyrtle	3	-	Good	-	Multistem, trunk wounds at base healing
T-2		<i>Lagerstroemia indica</i>	Crapemyrtle	2	-	Fair	-	Multistem, poor pruning
T-3		<i>Lagerstroemia indica</i>	Crapemyrtle	2	-	Poor	-	Multistem, open trunk wounds, poor pruning
T-4		<i>Lagerstroemia indica</i>	Crapemyrtle	1	-	Good	-	Multistem, minor trunk damage
T-5		<i>Prunus serrulata</i> 'Kwanzan'	Kwanzan cherry	6	-	Good	-	Minor exposed roots
T-6		<i>Prunus serrulata</i> 'Kwanzan'	Kwanzan cherry	6	-	Good	-	-
T-7		<i>Juniperus virginiana</i>	Eastern red cedar	14	-	Good	-	-
T-8		<i>Morus alba</i>	White mulberry	8	-	Poor	-	Broken branches, poor growth form
T-9		<i>Pyrus calleryana</i>	Bradford pear	9	-	Poor	-	Water sprouts, poor growth form
T-10		<i>Pyrus calleryana</i>	Bradford pear	11	-	Fair	-	Broken branches in canopy
T-11		<i>Liriodendron tulipifera</i>	Tulip poplar	40	60	Poor	Specimen Tree	Heavy vines taking over crown, broken branches in canopy, thin crown
T-12		<i>Myrica cerifera</i>	Wax myrtle	8	-	Fair	-	Leaning
T-13		<i>Prunus sp.</i>	Ornamental cherry sp.	8	-	Fair	-	Splits below DBH, pruned, ornamental cherry
T-14		<i>Acer rubrum</i>	Red maple	28	42	Poor	Significant Tree	Heavily pruned, girdling roots, splits above DBH, growing under utility lines
T-15		<i>Fraxinus pennsylvanica</i>	Green ash	21	-	Poor	-	Heavy vines, heavy pruning, water sprouts
T-16		<i>Koeleruteria paniculata</i>	Golden raintree	11	-	Poor	-	Major trunk wound rotting
T-17		<i>Koeleruteria paniculata</i>	Golden raintree	14	-	Fair	-	Minor trunk wound rotting, included bark, water sprouts
T-18		<i>Magnolia sp.</i>	Magnolia sp.	5	-	Fair	-	Ornamental sp., multistem, water sprouts
T-19		<i>Magnolia sp.</i>	Magnolia sp.	4	-	Fair	-	Ornamental sp., multistem, water sprouts, minor vines
T-20		<i>Magnolia sp.</i>	Magnolia sp.	4	-	Fair	-	Ornamental sp., multistem, water sprouts
T-21		<i>Styphnolobium japonicum</i>	Japanese pagoda tree	6	-	Fair	-	Multistem, trunk wounds healing, minor broken branches in crown
T-22		<i>Styphnolobium japonicum</i>	Japanese pagoda tree	18	-	Fair	-	Pruned, broken branches in crown, large branch removed - wound is rotting
T-23		<i>Styphnolobium japonicum</i>	Japanese pagoda tree	18	-	Fair	-	Pruned, exposed roots
T-24		<i>Styphnolobium japonicum</i>	Japanese pagoda tree	20	-	Good	-	Pruned
T-25		<i>Acer rubrum</i>	Red maple	4	-	Good	-	-
T-26		<i>Acer rubrum</i>	Red maple	4	-	Good	-	-
T-27		<i>Acer rubrum</i>	Red maple	4	-	Good	-	-
T-28		<i>Quercus phellos</i>	Willow oak	23	-	Fair	-	Exposed roots
T-32		<i>Quercus alba</i>	White oak	39	58.5	Fair	Specimen Tree	Large broken branches and deadwood in crown
T-33		<i>Acer rubrum</i>	Red maple	12	-	Fair	-	Dead wood and broken branches in canopy, appears desiccated/irregular bark, trunk wound at base
T-34		<i>Acer rubrum</i>	Red maple	8	-	Fair	-	Broken branches in canopy, girdling roots
T-35		<i>Acer rubrum</i>	Red maple	16	-	Poor	-	Included bark, large trunk wound rotting
T-36		<i>Acer rubrum</i>	Red maple	1	-	Fair	-	Twin trunks, broken branches in crown, exposed roots
T-37		<i>Acer rubrum</i>	Red maple	9	-	Fair	-	Pruned, appears desiccated
T-38		<i>Acer rubrum</i>	Red maple	8	-	Good	-	-
T-39		<i>Quercus alba</i>	White oak	42	63	Good	Specimen Tree	-
T-40		<i>Fraxinus pennsylvanica</i>	Green ash	25	37.5	Good	Significant Tree	No apparent EAB damage
T-41		<i>Tsuga canadensis</i>	Eastern hemlock	9	-	Good	-	Slight lean, pruned
T-42		<i>Tsuga canadensis</i>	Eastern hemlock	12	-	Good	-	Slight lean, pruned
T-43		<i>Cornus florida</i>	Flowering dogwood	6	-	Good	-	-
T-44		<i>Acer saccharinum</i>	Silver maple	40	60	Good	Specimen Tree	Minor included bark, exposed roots
T-45		<i>Acer saccharinum</i>	Silver maple	39	58.5	Fair	Specimen Tree	Slight lean, unbalanced crown, small trunk cavity
T-46		<i>Acer saccharinum</i>	Silver maple	30	45	Fair	Specimen Tree	Large branch removed, dead wood in crown, exposed roots
T-47		<i>Acer rubrum</i>	Red maple	23	-	Fair	-	Dead wood and damaged branches in crown, cankers at base, heavily pruned
T-48	X	<i>Acer rubrum</i>	Red maple	45	67.5	Good	Specimen Tree	Some deadwood/rotting branches in crown
T-49	X	<i>Liriodendron tulipifera</i>	Tulip poplar	36	54	Good	Specimen Tree	-
T-50		<i>Populus deltoides</i>	Eastern cottonwood	37	55.5	Fair	Specimen Tree	Included bark, deadwood and broken branches in crown
T-51		<i>Liriodendron tulipifera</i>	Tulip poplar	31	46.5	Fair	Specimen Tree	Twin trunks, second stem covered in poison ivy vines, slight lean in leader, deadwood in crown
T-52		<i>Populus deltoides</i>	Eastern cottonwood	31	46.5	Good	Specimen Tree	Lack of large branches in crown, leaning, reaction wood at base to compensate for lean
T-53		<i>Populus deltoides</i>	Eastern cottonwood	29	43.5	Fair	Significant Tree	Deadwood and broken branches in crown

\*T-29, T-30, & T-31 were surveyed outside of the project study areas.

TREE CONDITION ASSESSMENT GUIDELINES

- > **Excellent** - healthy tree with exceptional growth form; no visible defects, well-formed crown; few minor dead branches acceptable; this tree condition is rare.
- > **Good** - healthy tree; very minor defects/decay acceptable with callous forming/complete; well-formed crown; minor lean and/or few minor/major dead branches acceptable; vines may be growing along trunk but not present within crown.
- > **Fair** - health questionable/stress evident; structurally sound tree; defects present that do not affect structural integrity; moderate lean; minor/major dead branches may be present; crown not broken out but not necessarily well formed or even; vines may be growing along trunk and within crown.  
*Ex. Fair tree could be experiencing insect damage, or exhibit a growth form that makes it very susceptible to wind damage in an open setting.*
- > **Poor** - significant health problems; may be structurally unsound; may be dead or dying; may contain significant decay; may have broken or missing top/crown; may have heavy lean; vines may be significantly affecting tree health.

Note: These guidelines were developed by RK&K based on the professional judgment of our Certified Arborists and other senior environmental staff.

These tree species may commonly exhibit dead branches and/or ratty tree form/structure, which should be taken into account when assessing tree condition:

- Mulberry (*Morus spp.*)
- Pin Oak (*Quercus palustris*)
- Silver Maple (*Acer saccharinum*)
- Virginia Pine (*Pinus virginiana*)
- Scarlet Oak (*Quercus coccinea*)
- Black Locust (*Robinia pseudoacacia*)
- Osage Orange (*Masadora pomifera*)
- Willow Oak (*Quercus phellos*)
- Black Willow (*Salix nigra*)

DWG. TS-08

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 MD 586 (VEIRS MILL RD) BIKE AND PEDESTRIAN  
 PRIORITY AREA - WESTERN SECTOR  
 PRELIMINARY TREE SAVE NOTES AND TABLES

SCALE NONE DATE JUNE 2022

CONTRACT NO. 502003 SHEET NO. 45 OF 50

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**TREE TABLE**

Tree ID	Remove	Scientific Name	Common Name	DBH (inches)	CRZ (feet)	Condition	Specimen or Significant Tree	Comments
T-54	X	<i>Liriodendron tulipifera</i>	Tulip poplar	26	39	Fair	Significant Tree	Broken branches in crown, unbalanced crown
T-55		<i>Liriodendron tulipifera</i>	Tulip poplar	24	36	Fair	Significant Tree	Moderate vines into crown
T-56		<i>Liriodendron tulipifera</i>	Tulip poplar	32	48	Fair	Specimen Tree	Large branch dieback, deadwood, and broken branches in the crown
T-57		<i>Acer rubrum</i>	Red maple	26	39	Poor	Significant Tree	Large trunk wound decaying, long cracks/lightning damage on trunk, exposed roots
T-58		<i>Acer rubrum</i>	Red maple	26	39	Poor	Significant Tree	Twin trunks, broken leader, leaning, moderate cavity rotting
T-59		<i>Liriodendron tulipifera</i>	Tulip poplar	30	45	Fair	Specimen Tree	Girdling roots, broken branches in crown
T-60		<i>Liriodendron tulipifera</i>	Tulip poplar	38	57	Good	Specimen Tree	Minor vines into crown
T-61		<i>Populus deltoides</i>	Eastern cottonwood	24	36	Good	Significant Tree	Broken and rotting branch in crown
T-62		<i>Acer negundo</i>	Boxelder	27	40.5	Poor	Significant Tree	Secondary leader broken/dead, significant deadwood in crown, large trunk wound rotting, thin crown, vines into crown
T-63	X	<i>Acer negundo</i>	Boxelder	25	37.5	Poor	Significant Tree	Slight lean, moderate vines into crown, exposed roots, broken leaders, water sprouts
T-64	X	<i>Acer saccharinum</i>	Silver maple	42	63	Good	Specimen Tree	Minor dead branches in crown
T-65	X	<i>Acer saccharinum</i>	Silver maple	38	57	Good	Specimen Tree	Minor cavity healing, minor pruning
T-66		<i>Zelkova serrata</i>	Japanese Zelkova	11	-	Good	-	-
T-67	X	<i>Prunus sp.</i>	Ornamental cherry sp.	2	-	Fair	-	Vines, suckering
T-68	X	<i>Prunus sp.</i>	Ornamental cherry sp.	2	-	Good	-	Minor vines and suckering
T-69	X	<i>Platanus occidentalis</i>	American sycamore	41	61.5	Good	Specimen Tree	-
T-70	X	<i>Cornus florida</i>	Flowering dogwood	1	-	Good	-	-
T-71	X	<i>Amelanchier canadensis</i>	Shadblow serviceberry	1	-	Good	-	Multistem
T-72	X	<i>Amelanchier canadensis</i>	Shadblow serviceberry	1	-	Good	-	Multistem
T-73	X	<i>Juglans nigra</i>	Black walnut	11	-	Good	-	Growing along property fence
T-74	X	<i>Acer rubrum</i>	Red maple	21	-	Good	-	Splits below DBH, twin trunks 18" stem, minor suckering
T-75		<i>Acer saccharinum</i>	Silver maple	20	-	Good	-	Minor vines and suckering
T-76		<i>Acer platanoides</i>	Norway maple	25	37.5	Good	Significant Tree	Minor girdling roots
T-77		<i>Quercus palustris</i>	Pin oak	17	-	Good	-	Twin trunks 16" stem, splits below DBH
T-78		<i>Larix laricina</i>	American larch	20	-	Good	-	Slight lean, minor pruning at base and minor sapsucker holes
T-79		<i>Larix laricina</i>	American larch	20	-	Good	-	Minor pruning at base and minor sapsucker holes
T-80		<i>Acer rubrum</i>	Red maple	12	-	Fair	-	Heavy pruning, trunk decay
T-81	X	<i>Acer rubrum</i>	Red maple	16	-	Good	-	Pruning observed
T-82		<i>Larix laricina</i>	American larch	15	-	Good	-	Slight lean, minor pruning at base
T-83		<i>Larix laricina</i>	American larch	16	-	Good	-	Minor pruning at base
T-84		<i>Pinus strobus</i>	White pine	17	-	Fair	-	Utility pruning, unbalanced crown
T-85		<i>Quercus palustris</i>	Pin oak	30	45	Excellent	Specimen Tree	-
T-86		<i>Pinus strobus</i>	White pine	12	-	Poor	-	Topped leader, exposed bark, decaying trunk
T-87		<i>Quercus palustris</i>	Pin oak	27	40.5	Good	Significant Tree	-
T-88		<i>Quercus palustris</i>	Pin oak	24	36	Good	Significant Tree	-
T-89		<i>Quercus palustris</i>	Pin oak	24	36	Good	Significant Tree	-
T-90		<i>Quercus palustris</i>	Pin oak	25	37.5	Good	Significant Tree	Minor pruning in lower canopy
T-91		<i>Quercus palustris</i>	Pin oak	23	-	Good	-	Minor rotting branches/deadwood in lower canopy
T-92		<i>Quercus palustris</i>	Pin oak	30	45	Good	Specimen Tree	Minor deadwood in lower canopy
T-93		<i>Larix laricina</i>	American larch	21	-	Good	-	-
T-94		<i>Larix laricina</i>	American larch	12	-	Good	-	Slightly unbalanced crown
T-95		<i>Ilex cornuta 'Burfordii'</i>	Burford holly	6	-	Fair	-	Pruning, minor trunk wounds
T-96		<i>Ilex cornuta 'Burfordii'</i>	Burford holly	6	-	Fair	-	Pruning, minor trunk wounds
T-97		<i>Ilex cornuta 'Burfordii'</i>	Burford holly	6	-	Fair	-	Pruning, minor trunk wounds, twin trunks 5" stem splits below DBH
T-98		<i>Ilex cornuta 'Burfordii'</i>	Burford holly	6	-	Fair	-	Pruning, minor trunk wounds
T-99		<i>Ilex cornuta 'Burfordii'</i>	Burford holly	6	-	Fair	-	Pruning, minor trunk wounds
T-100		<i>Ilex cornuta 'Burfordii'</i>	Burford holly	6	-	Fair	-	Pruning, minor trunk wounds
T-101		<i>Quercus palustris</i>	Pin oak	24	36	Good	Significant Tree	-
T-102		<i>Quercus palustris</i>	Pin oak	20	-	Good	-	-
T-103		<i>Prunus sp.</i>	Weeping ornamental cherry sp.	9	-	Fair	-	Deadwood in crown, pruning, trunk damage

\*T-29, T-30, & T-31 were surveyed outside of the project study areas.

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DWG. TS-09

TREE TABLE

Tree ID	Remove	Scientific Name	Common Name	DBH (inches)	CRZ (feet)	Condition	Specimen or Significant Tree	Comments
T-104		<i>Cornus florida</i>	Flowering dogwood	13	-	Fair	-	Twin trunks 11" stem, splits below DBH, large cavity rotting, pruning, slight lean
T-105	X	<i>Quercus alba</i>	White oak	43	64.5	Good	Specimen Tree	-
T-106		<i>Acer saccharinum</i>	Silver maple	48	72	Fair	Specimen Tree	Significant deadwood and broken branches in crown
T-107	X	<i>Cornus florida</i>	Flowering dogwood	8	-	Good	-	Twin trunks splits below DBH 6" stem
T-108		<i>Cornus florida</i>	Flowering dogwood	10	-	Good	-	-
T-109	X	<i>Quercus alba</i>	White oak	38	57	Good	Specimen Tree	Minor deadwood in crown
T-110	X	<i>Acer rubrum</i>	Red maple	38	57	Fair	Specimen Tree	Slightly unbalanced crown, moderate/heavy pruning, splits above DBH
T-111	X	<i>Acer platanoides</i>	Norway maple	15	-	Good	-	Minor vines into crown, interfering branches in crown
T-112	X	<i>Quercus coccinea</i>	Scarlet oak	42	63	Good	Specimen Tree	Utility pruning
T-113	X	<i>Quercus coccinea</i>	Scarlet oak	46	69	Good	Specimen Tree	Some pruning
T-114	X	<i>Ulmus americana</i>	American elm	11	-	Fair	-	Heavy pruning
T-115		<i>Fraxinus pennsylvanica</i>	Green ash	30	45	Poor	Specimen Tree	EAB damage, dying crown, deadwood/broken branches in crown, hazard tree
T-116	X	<i>Ulmus americana</i>	American elm	15	-	Good	-	Vines into crown
T-117	X	<i>Ailanthus altissima</i>	Tree of heaven	6	-	Fair	-	Twin trunks 4" stem, growing through fence
T-118	X	<i>Fraxinus pennsylvanica</i>	Green ash	3	-	Poor	-	Leader felled, only suckering/water sprouts remained
T-119	X	<i>Thuja occidentalis</i>	White cedar	2	-	Good	-	-
T-120	X	<i>Thuja occidentalis</i>	White cedar	2	-	Good	-	Twin trunks 1" stem, splits below DBH
T-121	X	<i>Thuja occidentalis</i>	White cedar	2	-	Good	-	Triple trunks 1" stems, splits below DBH
T-122	X	<i>Thuja occidentalis</i>	White cedar	2	-	Good	-	Triple trunks 1" stems, splits below DBH
T-123	X	<i>Prunus serotina</i>	Black cherry	17	-	Good	-	-
T-124	X	<i>Acer negundo</i>	Boxelder	20	-	Fair	-	Dead secondary leader, deadwood in crown, vines into crown
T-125	X	<i>Lagerstroemia indica</i>	Crapemyrtle	2	-	Fair	-	Multi stem, suckering
T-126	X	<i>Thuja occidentalis</i>	White cedar	1	-	Good	-	Very small planted tree in median
T-127	X	<i>Thuja occidentalis</i>	White cedar	1	-	Good	-	Very small planted tree in median
T-128	X	<i>Rhus glabra</i>	Smooth sumac	1	-	Good	-	Very small planted tree in median
T-129	X	<i>Thuja occidentalis</i>	White cedar	1	-	Good	-	Very small planted tree in median
T-130	X	<i>Carpinus caroliniana</i>	American hornbeam	1	-	Good	-	-
T-131	X	<i>Carpinus caroliniana</i>	American hornbeam	1	-	Good	-	-
T-132	X	<i>Carpinus caroliniana</i>	American hornbeam	1	-	Good	-	-
T-133	X	<i>Juglans nigra</i>	Black walnut	14	-	Good	-	Minor vines
T-134	X	<i>Acer negundo</i>	Boxelder	11	-	Poor	-	Dead leader, heavy vines, dead branches
T-135	X	<i>Juglans nigra</i>	Black walnut	12	-	Fair	-	Heavy vines
T-136	X	<i>Juglans nigra</i>	Black walnut	7	-	Poor	-	Lean, splits below DBH, vines
T-137	X	<i>Juglans nigra</i>	Black walnut	7	-	Fair	-	Heavy vines
T-138	X	<i>Platanus occidentalis</i>	American sycamore	10	-	Fair	-	Lean, vines
T-139	X	<i>Juglans nigra</i>	Black walnut	9	-	Fair	-	Vines
T-140		<i>Morus alba</i>	White mulberry	6	-	Good	-	-
T-141		<i>Acer platanoides</i>	Norway maple	9	-	Good	-	-
T-142		<i>Acer platanoides</i>	Norway maple	8	-	Good	-	-
T-143	X	<i>Juglans nigra</i>	Black walnut	11	-	Fair	-	Heavy lean, vines
T-144		<i>Robinia pseudoacacia</i>	Black locust	18	-	Good	-	Minor dead wood
T-145		<i>Juglans nigra</i>	Black walnut	17	-	Good	-	Minor vines
T-146	X	<i>Juglans nigra</i>	Black walnut	8	-	Fair	-	Minor vines, lean
T-147	X	<i>Acer negundo</i>	Boxelder	7	-	Fair	-	Vines, lean
T-148	X	<i>Acer negundo</i>	Boxelder	8	-	Fair	-	Trunk wound and decay
T-149		<i>Prunus serotina</i>	Black cherry	6	-	Good	-	Lean
T-150		<i>Acer negundo</i>	Boxelder	6	-	Fair	-	Water sprouts, poor growth form
T-151		<i>Juglans nigra</i>	Black walnut	11	-	Poor	-	Heavy vines, broken leader
T-152		<i>Acer negundo</i>	Boxelder	6	-	Good	-	-
T-153		<i>Robinia pseudoacacia</i>	Black locust	10	-	Poor	-	Broken leader, no crown, vines

P:\RTE\64959261\Files\1\Map\kccm\16\Clear\Projects\2020\2007\_MCOOT\Temp\Task\_4 - BiPPA\_Veirs\_Mill\Cadd\Plans\p15-Tot\_MDS\8686PA.dgn  
 PLOT: 64959261  
 FILE: \\vkkccm\16\Clear\Projects\2020\2007\_MCOOT\Temp\Task\_4 - BiPPA\_Veirs\_Mill\Cadd\Plans\p15-Tot\_MDS\8686PA.dgn

DWG. TS-10

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 ROCKVILLE, MARYLAND

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Chief, Transportation Planning and Design Section

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Chief, Division of Transportation Engineering

DESIGNED BY \_NLB\_ DRAWN BY \_NLB\_ CHECKED BY \_RL\_

MONTGOMERY COUNTY  
 DEPARTMENT OF TRANSPORTATION  
 DIVISION OF TRANSPORTATION ENGINEERING

MD 586 (VEIRS MILL RD) BIKE AND PEDESTRIAN  
 PRIORITY AREA - WESTERN SECTOR  
 PRELIMINARY TREE SAVE NOTES AND TABLES

SCALE \_\_\_\_\_ NONE \_\_\_\_\_ DATE \_\_\_\_\_ JUNE 2022 \_\_\_\_\_

CONTRACT NO. 502003 SHEET NO. 47 OF 50

**TREE TABLE**

Tree ID	Remove	Scientific Name	Common Name	DBH (inches)	CRZ (feet)	Condition	Specimen or Significant Tree	Comments
T-154		<i>Acer negundo</i>	Boxelder	13	-	Fair	-	Bent leader, water sprouts
T-155		<i>Robinia pseudoacacia</i>	Black locust	7	-	Poor	-	Trunk decay, broken leader
T-156	X	<i>Acer negundo</i>	Boxelder	6	-	Good	-	-
T-157	X	<i>Ulmus americana</i>	American elm	9	-	Good	-	Minor dead wood
T-158		<i>Acer rubrum</i>	Red maple	9	-	Fair	-	Broken leader, thin crown
T-159	X	<i>Acer negundo</i>	Boxelder	8	-	Poor	-	Broken leader, heavy vines, dead wood
T-160	X	<i>Acer negundo</i>	Boxelder	12	-	Poor	-	Lean, dead wood
T-161	X	<i>Acer negundo</i>	Boxelder	15	-	Good	-	Lean
T-162	X	<i>Acer negundo</i>	Boxelder	7	-	Fair	-	Water sprouts, broken leader
T-163		<i>Acer negundo</i>	Boxelder	9	-	Fair	-	Water sprouts, broken branches
T-164		<i>Robinia pseudoacacia</i>	Black locust	20	-	Fair	-	Lean, trunk cavities, minor dead wood
T-165		<i>Acer negundo</i>	Boxelder	9	-	Fair	-	Water sprouts, dead wood
T-166		<i>Acer negundo</i>	Boxelder	12	-	Poor	-	Lean, major trunk wound and decay, dead wood, poor growth form
T-167		<i>Prunus serotina</i>	Black cherry	8	-	Fair	-	Lean, water sprouts
T-168		<i>Acer negundo</i>	Boxelder	12	-	Fair	-	Vines, poor growth form
T-169	X	<i>Prunus serotina</i>	Black cherry	8	-	Fair	-	Lean, poor growth form
T-170	X	<i>Acer negundo</i>	Boxelder	7	-	Fair	-	Trunk cavity and decay
T-171	X	<i>Acer negundo</i>	Boxelder	13	-	Fair	-	Water sprouts, dead wood, interfering branches
T-172	X	<i>Acer negundo</i>	Boxelder	15	-	Good	-	-
T-173	X	<i>Acer negundo</i>	Boxelder	9	-	Fair	-	Water sprouts, vines
T-174	X	<i>Acer negundo</i>	Boxelder	13	-	Poor	-	Major trunk cavity and decay, vines, lean
T-175		<i>Acer negundo</i>	Boxelder	11	-	Poor	-	Major trunk cavity and decay, broken leader
T-176		<i>Acer negundo</i>	Boxelder	7	-	Fair	-	Water sprouts, vines
T-177		<i>Juglans nigra</i>	Black walnut	19	-	Good	-	Minor vines
T-178	X	<i>Acer negundo</i>	Boxelder	8	-	Poor	-	Dead leader, extensive trunk decay
T-179	X	<i>Acer platanoides</i>	Norway maple	10	-	Good	-	Vines
T-180	X	<i>Acer negundo</i>	Boxelder	15	-	Fair	-	Water sprouts, large broken branches, trunk cavity
T-181	X	<i>Acer negundo</i>	Boxelder	15	-	Fair	-	Water sprouts, minor dead wood, lean
T-182		<i>Robinia pseudoacacia</i>	Black locust	9	-	Fair	-	Heavy lean, dead wood
T-183		<i>Robinia pseudoacacia</i>	Black locust	12	-	Fair	-	Water sprouts, dead branches
T-500		<i>Acer negundo</i>	Boxelder	10	-	Fair	-	Water sprouts, pruning along roadway
T-501		<i>Acer negundo</i>	Boxelder	15	-	Fair	-	Splits below DBH, heavy vines
T-502		<i>Platanus occidentalis</i>	Sycamore	6	-	Fair	-	Lean, heavy vines
T-503		<i>Cornus florida</i>	Flowering dogwood	6	-	Good	-	Growing into powerlines
T-504		<i>Cornus florida</i>	Flowering dogwood	11	-	Good	-	-
T-505		<i>Acer negundo</i>	Boxelder	7	-	Fair	-	Water sprouts, poor growth form
T-506		<i>Ulmus americana</i>	American elm	18	-	Good	-	Minor dead wood, soil build up around trunk base
T-507		<i>Acer negundo</i>	Boxelder	6	-	Fair	-	Poor growth form
T-508		<i>Robinia pseudoacacia</i>	Black locust	16	-	Good	-	Minor vines
T-509		<i>Acer negundo</i>	Boxelder	16	-	Good	-	-
T-510		<i>Ulmus americana</i>	American elm	10	-	Poor	-	Missing leader, water sprouts
T-511		<i>Liriodendron tulipifera</i>	Tulip poplar	23	-	Good	-	Exposed roots, twin trunk splits below DBH
T-512		<i>Ulmus americana</i>	American elm	15	-	Fair	-	Exposed roots, vines, trunk damage
T-513		<i>Robinia pseudoacacia</i>	Black locust	6	-	Good	-	-
T-514		<i>Robinia pseudoacacia</i>	Black locust	6	-	Good	-	Splits below dbh multistem
T-515	X	<i>Robinia pseudoacacia</i>	Black locust	10	-	Fair	-	Leader pruned off, responding well
T-516	X	<i>Ulmus americana</i>	American elm	13	-	Fair	-	Heavy vines
T-517	X	<i>Ulmus americana</i>	American elm	7	-	Poor	-	Heavy vines, multistem splits below DBH, dead leader
T-518	X	<i>Ulmus americana</i>	American elm	6	-	Poor	-	Pruned leaders, heavy lean
T-519	X	<i>Acer negundo</i>	Boxelder	10	-	Good	-	-

DWG. TS-11

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 Chief, Transportation Planning and Design Section

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 Chief, Division of Transportation Engineering

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MONTGOMERY COUNTY  
 DEPARTMENT OF TRANSPORTATION  
 DIVISION OF TRANSPORTATION ENGINEERING

MD 586 (VEIRS MILL RD) BIKE AND PEDESTRIAN  
 PRIORITY AREA - WESTERN SECTOR

PRELIMINARY TREE SAVE NOTES AND TABLES

SCALE NONE DATE JUNE 2022

CONTRACT NO. 502003 SHEET NO. 48 OF 50



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P:\ATTN: 6/26/2022  
 FILE: \\vkk.com\Users\jck\Projects\2020\2007\_MCDOT\Temp\Task\_4 - BiPPA\_Veirs Mill\Cadd\Plans\175-Top\_MDS\BPPA.dgn



GRADING TABLE									
ROADWAY		CLASS 1 EXCAVATION							EMBANKMENT
FROM	TO	CUT FROM XSECTS	TOPSOIL		TOTAL	SUITABLE FOR EMBANK.	SHRINK/SWELL FACTOR (%)	AVAIL. FOR EMBANK.	TOTAL FILL
		C.Y.	CUT C.Y.	FILL C.Y.	C.Y.	C.Y.	C.Y.	C.Y.	FROM XSECT C.Y.
VEIRS MILL RD									
262+00	304+00	XX	0	0	4,652	0	0	0	593

## SUMMARY OF EARTHWORK

**EXCAVATION**

TOTAL CLASS I EXCAVATION .....	4,652	C.Y.
TOTAL CLASS I-A EXCAVATION .....	100	C.Y.
TOTAL TEST PIT EXCAVATION .....	100	C.Y.
TOTAL EXCAVATION AVAILABLE FOR EMBANKMENT .....	0	C.Y.
TOTAL EROSION & SEDIMENT CONTROL EXCAVATION .....	0	C.Y.

**EMBANKMENT**

COMMON BORROW REQUIRED .....	593	C.Y.
BORROW DENSIFIED (20%) .....	120	C.Y.
TOTAL COMMON BORROW REQUIRED .....	713	C.Y.

**PROPOSAL QUANTITIES**

CLASS I EXCAVATION .....	4,652	C.Y.
CLASS I-A EXCAVATION .....	100	C.Y.
TEST PIT EXCAVATION .....	100	C.Y.
COMMON BORROW .....	750	C.Y.
SELECT BORROW (FOR CLASS I-A REFILL) .....	100	C.Y.

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MD 586 (VEIRS MILL RD) BIKE AND PEDESTRIAN  
 PRIORITY AREA - WESTERN SECTOR  
 GRADING TABLE AND SUMMARY OF EARTHWORK

SCALE NO SCALE DATE JUNE 2022

CONTRACT NO. 502003 SHEET NO. 50 OF 50

DWG. GR-01

**MONTGOMERY COUNTY  
DEPARTMENT OF TRANSPORTATION**

**MD 586 (VEIRS MILL ROAD)  
BIKE AND PEDESTRIAN PRIORITY AREA –  
CENTRAL SECTOR  
C.I.P. CONTRACT NO. 502003**

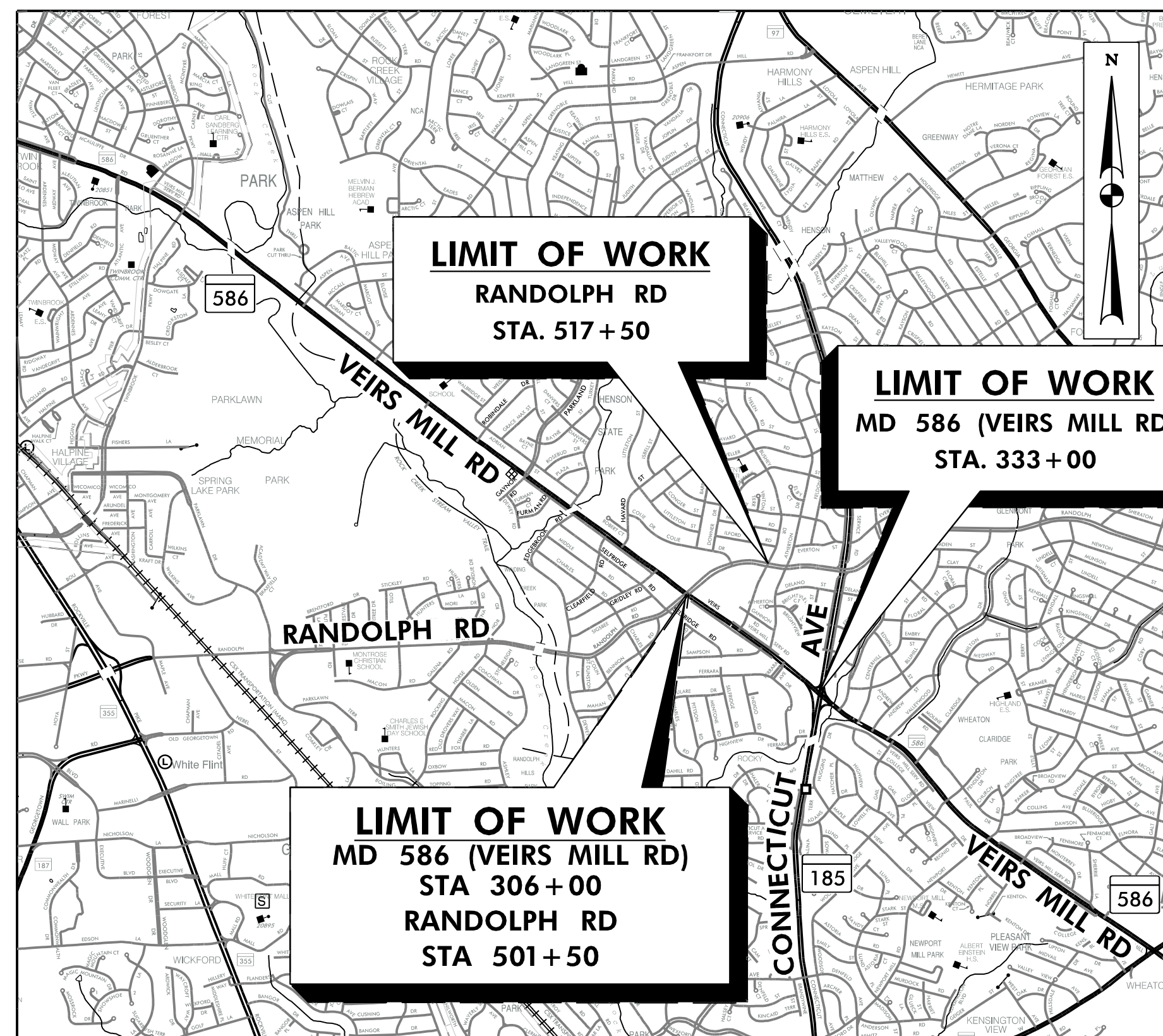
**MISS UTILITY**

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 M-NCPPC PROPERTY AT THEIR EXPENSE. ALL UTILITIES SHOWN ON THE PLANS ARE PROVIDED FOR INFORMATION ONLY AND SHALL BE CONSIDERED APPROXIMATE. M-NCPPC 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.

**INDEX OF SHEETS**

SHEET NO.	DRAWING NO.	SHEET NAME
1	TS-01	TITLE SHEET
2	GN-01	GENERAL NOTES, ABBREVIATIONS & SYMBOLS
3-5	HT-01 – HT-03	TYPICAL SECTIONS
6	DE-01	ROADWAY AND PAVEMENT DETAILS
7-9	GS-01 – GS-03	GEOMETRY SHEET
10-19	HD-01 TO HD-10	ROADWAY PLANS
20-26	TCP-01 – TCP-07	TRAFFIC CONTROL PLANS
27-29	SN-2.01 – SN2.03	SIGNING AND PAVEMENT MARKING PLANS
30-32	LT-01 – LT-03	LIGHTING PLANS
33-45	TS-01 – TS-13	TREE SAVE PLANS
46	GR-01	EARTHWORK AND GRADING TABLE



DESIGN DESIGNATION		DESIGN DESIGNATION	
ROADWAY	MD 586	ROADWAY	RANDOLPH RD
ROADWAY LENGTH (MILES)	0.52	ROADWAY LENGTH (MILES)	0.28
CONTROLS YEARS	-	CONTROLS YEARS	-
AVERAGE DAILY TRAFFIC (A.D.T.)	-	AVERAGE DAILY TRAFFIC (A.D.T.)	-
DESIGN HOURLY VOLUME (D.H.V.)	-	DESIGN HOURLY VOLUME (D.H.V.)	-
DIRECTIONAL DISTRIBUTION	-	DIRECTIONAL DISTRIBUTION	-
% TRUCKS (A.D.T.)	-	% TRUCKS (A.D.T.)	-
% TRUCKS (D.H.V.)	-	% TRUCKS (D.H.V.)	-
FUNCTIONAL CLASSIFICATION	PRINCIPAL ARTERIAL	FUNCTIONAL CLASSIFICATION	PRINCIPAL ARTERIAL
CONTROL OF ACCESS	NONE	CONTROL OF ACCESS	NONE
INTENSITY OF DEVELOPMENT	URBAN	INTENSITY OF DEVELOPMENT	URBAN
TERRAIN	ROLLING	TERRAIN	ROLLING
DESIGN SPEED (M.P.H.)	40 MPH	DESIGN SPEED (M.P.H.)	40 MPH
ANTICIPATED POSTED SPEED (M.P.H.)	35 MPH	ANTICIPATED POSTED SPEED (M.P.H.)	35 MPH

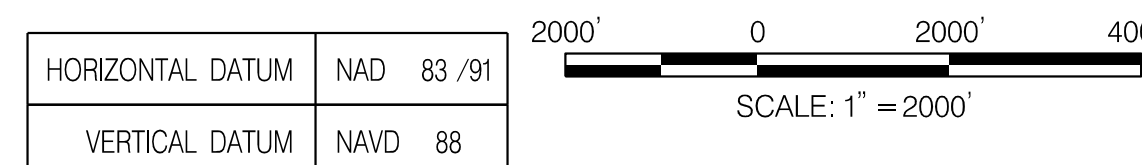
DESIGN DESIGNATION	
ROADWAY	FERRARA AVE
ROADWAY LENGTH (MILES)	0.06
CONTROLS YEARS	-
AVERAGE DAILY TRAFFIC (A.D.T.)	-
DESIGN HOURLY VOLUME (D.H.V.)	-
DIRECTIONAL DISTRIBUTION	-
% TRUCKS (A.D.T.)	-
% TRUCKS (D.H.V.)	-
FUNCTIONAL CLASSIFICATION	LOCAL ROAD
CONTROL OF ACCESS	NONE
INTENSITY OF DEVELOPMENT	URBAN
TERRAIN	ROLLING
DESIGN SPEED (M.P.H.)	25 MPH
ANTICIPATED POSTED SPEED (M.P.H.)	25 MPH

**35% DESIGN REVIEW  
JUNE 27, 2022  
NOT FOR CONSTRUCTION**

RELATED REQUIRED PERMITS					
To be completed by the consultant and placed on the first sheet of the Sediment Control/Stormwater Management plan set for all projects					
IT IS THE RESPONSIBILITY OF PERMITTEE/OWNER OF THIS SITE TO OBTAIN ALL REQUIRED PERMITS PRIOR TO ISSUANCE OF THE APPROVED SEDIMENT CONTROL PERMIT:					
TYPE OF PERMIT	REQ'D	NOT REQ'D	PERMIT NO.	EXPIRATION DATE	WORK RESTRICTION DATES
MCDPS Floodplain district		X			
WATERWAYS/WETLAND(S)	X				
a. Corps of Engineers					
b. MDE	X				
c. MDE Water Quality Certification		X			
MDE Dam Safety		X			
*DPS Roadside Trees Protection Plan	X				
NPDES NOTICE OF INTENT	X				
FEMA LOMR (Required post construction)		X			
OTHERS (Please List):					
MNCPPC Park Construction Permit		X			
WSSC	X				
Montgomery County Tree Canopy Conservation Law Approval	X				

MONTGOMERY COUNTY

LENGTH OF PROJECT:  
MD RTE. 586 = 0.52 MILES  
RANDOLPH RD = 0.28 MILES  
FERRARA AVE = 0.06 MILES



MONTGOMERY COUNTY DEPARTMENT OF PERMITTING SERVICES APPROVED FOR:			NOTE: MCDPS APPROVAL DOES NOT NEGATE THE NEED OF A MCDPS ACCESS PERMIT
STORMWATER MANAGEMENT	SEDIMENT CONTROL TECHNICAL REQUIREMENTS:	ADMINISTRATIVE REQUIREMENTS:	
REVIEWED DATE	REVIEWED DATE	REVIEWED DATE	
APPROVED DATE	APPROVED DATE	SEDIMENT CONTROL PERMIT NO.	
S.M.FILE NO.			
DPS approval of a sediment control or stormwater management plan is for demonstrated compliance with minimum environmental runoff treatment standards and does not create or imply any right to divert or concentrate runoff onto any adjacent property without that property owner's permission. It does not relieve the design engineer or other responsible person of professional liability or ethical responsibility for the adequacy of the drainage design as it affects uphill or downhill properties.			

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Chief, Division of Transportation Engineering

MONTGOMERY COUNTY  
DEPARTMENT OF TRANSPORTATION  
DIVISION OF TRANSPORTATION ENGINEERING  
MD 586/VEIRS MILL ROAD BIKE AND PEDESTRIAN PRIORITY AREA – CENTRAL SECTOR  
TITLE SHEET

SCALE 1"=2000' DATE JUNE 2022



ABBREVIATIONS

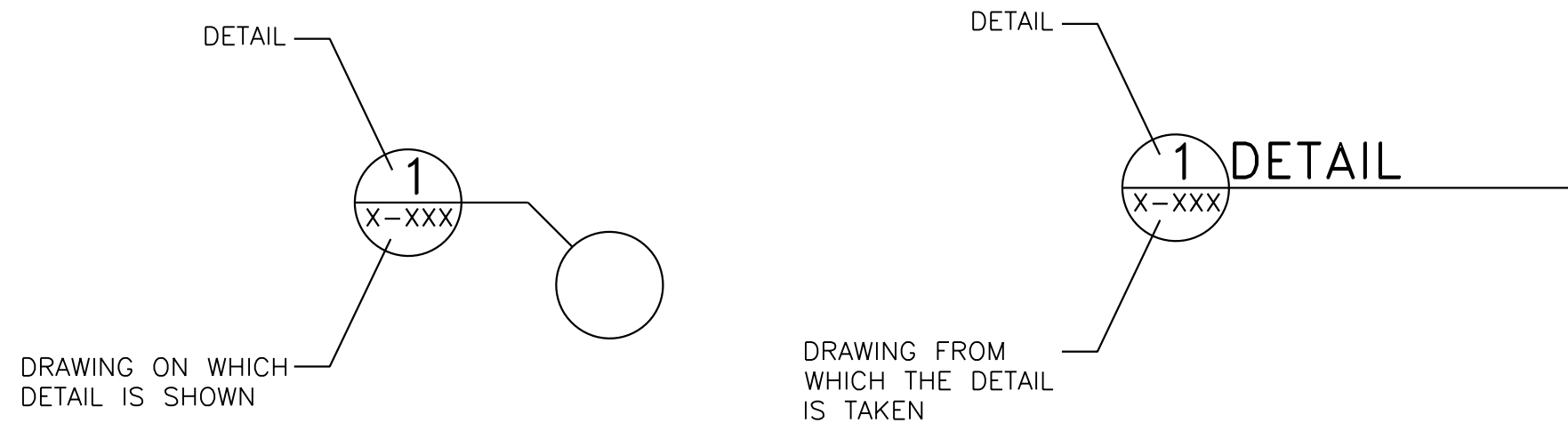
A.A.S.H.T.O... American Association of State Highway Transportation Officials	IN ..... Inch	S ..... South
AC ..... Acre	I.S.T..... Inlet Sediment Trap	SAN..... Sanitary Sewer
ADT..... Average Daily Traffic	INV..... Invert	SB or SB..... Southbound
AHD..... Ahead	J.B..... Junction Box	S.D..... Storm Drain
APPROX..... Approximate	K ..... K Inlet	S.D.D..... Surface Drain Ditch
± or B/L..... Baseline	LN..... Lane	SE ..... Super Elevation
BK..... Back / Book	L ..... Length	SF ..... Silt Fence
BIT..... Bituminous	L.F..... Linear Feet	S.F..... Square Feet
B.C..... Bituminous Concrete	L.L..... Liquid Limit	SHT..... Sheet
B.M..... Bench Mark	L.P..... Light Pole	S.P.P..... Structural Plate Pipe
BLVD..... Boulevard	LT..... Left	S.P.T..... Standard Penetration Testing
BOT..... Bottom	MAC..... Macadam	SSD..... Stopping Sight Distance
C.C..... Center of Curve	MD..... Maryland	SSF..... Super Silt Fence
CATV..... Cable Television	M.C..... Moisture Content	STD..... Standard
C.B.R..... California Bearing Ratio	MAX..... Maximum	STA..... Station
C or CL..... Centerline	M.D.D..... Maximum Dry Content	ST ..... Street
QIR ..... Circle	MOD..... Modified	SO ..... Single Opening
CL..... Class	MIN..... Minimum	S.Y..... Square Yards
CLF..... Chainlink Fence	N ..... North	SWM..... Stormwater Management
CMP..... Corrugated Metal Pipe	N.B. or NB..... Northbound	T..... Tangent
C.O..... Cleanout	N.E..... Northeast	T..... Telephone
COMB..... Combination	N.P..... Non-Plastic	T/C ..... Top of Curb
CONC..... Concrete	O.C..... On Center	T.C..... Top of Cover
CONSTR..... Construction	OHE..... Overhead Electric	T.G..... Top of Grate
COR..... Corner	O.M..... Optimum Moisture	T or TL..... Traverse Line
CORR..... Correction	PAV'T..... Pavement	T.M..... Top of Manhole
DC..... Degree of Curve	P.C..... Point of Curvature	TRAV..... Traverse
D.H.V..... Design Hourly Volume	P.C.C..... Point of Compound Curvature	TS ..... Temporary Swale
D.I..... Drop Inlet	P.C..... Point of Crown	T.S..... Top of Slab
DIA..... Diameter	PGE..... Profile Grade Elevation	T.S..... Topsoil
D.O..... Double Opening	P.G.L..... Profile Grade Line	TYP..... Typical
DR..... Drive	P/GL..... Profile Ground Line	U.D..... Under Drain
DS..... Design Speed	PR..... Point of Rotation	U.G..... Underground
DWS..... Detectable Warning Surface	P.I..... Plasticity Index	U.P..... Utility Pole
E ..... East	P.I..... Point of Intersection	U.S.D.A. United States Department of Agriculture
E ..... Electric	P.O.C..... Point On Curve	VCL ..... Vertical Clearance
E ..... External Distance	P.O.T..... Point On Tangent	V.C.L..... Vertical Curve Length
EA..... Each	PROP..... Proposed	W..... Water
E.B..... Eastbound	P.R.C..... Point of Reverse Curve	W ..... West
ELEV..... Elevation	PT..... Point	W ..... Westbound
E.R.C.C.P..... Elliptical Reinforced Concrete Pipe	P.T..... Point of Tangency	W.B..... Wetland Buffer
ES ..... End Section	P.V.C..... Point of Vertical Curve	W.M..... Water Meter
ESDV..... Runoff Volume	PVC..... Polyvinyl Chloride	W.S..... Wrapped Steel
EX. or EXIST..... Existing	PVI..... Point of Vertical Intersection	W.V..... Water Valve
FT..... Feet	PVRC..... Point of Vertical Reverse Curve	WWF..... Welded Wire Mesh
F or FL..... Flowline	PVT..... Point of Vertical Tangency	
F.B.D..... Flat Bottom Ditch	R ..... Radius	
F.H..... Fire Hydrant	RD..... Road	
FWD..... Forward	R.F..... Rock Fragments	
FC..... Face of Curb	RT..... Right	
G ..... Gas	RW or RW... Right of Way	
G.V..... Gas Valve	R.C.P..... Reinforced Concrete Pipe	
GAB..... Graded Aggregate Base	R.C.C.P..... Reinforced Cement Concrete Pipe	
H.B..... Handbox	RET..... Retaining	
H.D.P..... High Density Polyethylene	R.Q.D..... Rock Quality Designation	
HDWL..... Headwall	R.M..... Rootmat	
H.E.R.C.P..... Horizontal Elliptical Reinforced Concrete Pipe		
HLSD..... Headlight Sight Distance		
H.P..... High Point		

CONVENTIONAL SYMBOLS

PROPOSED MEDIAN BARRIER		PROPOSED PIPE / CULVERT	
ELECTRICAL HAND BOX - SIGNALS		EXISTING PIPE / CULVERT	
DITCH FLOW LINE		EXISTING DROP INLET	
STATE, COUNTY OR CITY LINES		UTILITY POLE	
PROPOSED TRAFFIC BARRIER		WETLAND BOUNDARY	
EXISTING TRAFFIC BARRIER		WETLAND BUFFER	
PROPOSED FENCE LINE		WATERS OF THE U.S.	
EXISTING FENCE LINE		STREAMS	
RIGHT OF WAY LINE		HEDGE / TREE LINE	
EXISTING ROADWAY		BUSH / TREE	
RAILROAD		CONIFEROUS TREE	
BASE LINE OR SURVEY LINE		GROUND ELEVATION	
FIRE HYDRANT		GRADE ELEVATION	
HISTORIC DISTRICT BOUNDRY		PROPOSED RETAINING WALL	
UTILITY TEST HOLE TARGET			
DRILLED SHAFT LOCATION			

GENERAL NOTES

- ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE MARYLAND STATE HIGHWAY ADMINISTRATION'S STANDARD SPECIFICATIONS FOR CONSTRUCTION AND MATERIALS 2018 AND BOOK OF STANDARDS FOR HIGHWAYS & INCIDENTAL STRUCTURES, THE MONTGOMERY COUNTY DEPARTMENT OF TRANSPORTATION STANDARDS, AND THE MARYLAND MUTCD.
- HORIZONTAL DATUM IS BASED ON NAD 83/2011 AND VERTICAL DATUM IS BASED ON NAVD 88.
- ALL UTILITY RELOCATIONS SHALL BE PERFORMED BY OTHERS. IT IS THE CONTRACTOR'S RESPONSIBILITY TO COORDINATE WITH UTILITY OWNERS TO ENSURE PENDING UTILITY RELOCATIONS DO NOT AFFECT THE SCHEDULE'S CRITICAL PATH.
- CALL "MISS UTILITY" AT 1-800-257-7777, 48 HOURS PRIOR TO THE START OF WORK. THE EXCAVATOR MUST NOTIFY ALL PUBLIC UTILITY COMPANIES WITH UNDER GROUND FACILITIES IN THE AREA OF PROPOSED EXCAVATION AND HAVE THOSE FACILITIES LOCATED BY THE UTILITY COMPANIES PRIOR TO COMMENCING EXCAVATION. THE EXCAVATOR IS RESPONSIBLE FOR COMPLIANCE WITH REQUIREMENTS OF CHAPTER 36A OF THE MONTGOMERY COUNTY CODE.
- INFORMATION CONCERNING UNDERGROUND UTILITIES WAS OBTAINED FROM AVAILABLE RECORDS AND UTILITY DESIGNATING, BUT THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATIONS AND ELEVATIONS OF THE LINES BY DIGGING TEST PITS BY HAND OR VACUUM EXCAVATIONS/ SOFT DIG METHODS AT ALL UTILITY CROSSINGS, WELL IN ADVANCE OF TRENCHING. IF CLEARANCES ARE LESS THAN TWELVE (12) INCHES, CONTACT MONTGOMERY COUNTY DEPARTMENT OF TRANSPORTATION'S PROJECT INSPECTOR AND THE APPROPRIATE UTILITY OWNER BEFORE PROCEEDING WITH CONSTRUCTION.
- REPAIRS TO UTILITIES OR PROPERTY DAMAGE AS A RESULT OF THE CONTRACTOR'S NEGLIGENCE OR METHOD OF OPERATION SHALL BE MADE AT THE CONTRACTOR'S EXPENSE BEFORE PROCEEDING WITH CONSTRUCTION.
- GRADING SHALL BE DONE IN SUCH A MANNER AS TO PROVIDE POSITIVE DRAINAGE.
- SAW CUTS WILL NOT BE MEASURED BUT WILL BE INCIDENTAL TO OTHER RELATED ITEMS AS SPECIFIED IN THE CONTRACT DOCUMENTS.
- THE CONTRACTOR SHALL MAINTAIN PEDESTRIAN AND VEHICULAR ACCESS TO ALL PROPERTIES WITHIN THE PROJECT LIMITS AND SHALL COORDINATE WITH PROPERTY OWNERS TO MAINTAIN INGRESS/EGRESS DURING THE ENTIRE PERIOD OF CONSTRUCTION.
- REFER TO THE CONTRACT DOCUMENTS FOR ROADWAY BORING, SOIL BORING, AND INFILTRATION TESTING DATA SHEETS.
- RIGHT OF WAY LINES SHOWN ON THE PLANS ARE SURVEYED METES AND BOUNDS PROPERTY LINES. FOR RIGHT OF WAY ACQUISITIONS PLEASE SEE APPROPRIATE RIGHT OF WAY PLAT.
- CONTRACTOR SHALL COORDINATE RELOCATION OF ALL EXISTING BUS STOPS WITH WAYNE MILLER, MCDOT DIVISION OF TRANSIT SERVICES AT 240-777-5836.
- EXISTING CURB AND GUTTER AND SIDEWALK WITHIN THE LOD, NOT SHOWN AS REPLACEMENT ON THE CV DRAWINGS, IS NOT INTENDED TO BE DISTURBED AND REPLACED AS PART OF THE PROJECT. CONTRACTOR SHOULD EXERCISE CAUTION TO NOT DAMAGE CURB AND SIDEWALK. DAMAGE BEYOND WHAT IS SHOWN AS REPLACEMENT IN THE CV DRAWINGS SHALL BE REPLACED BY THE CONTRACTOR AT THE CONTRACTOR'S OWN EXPENSE. CONTINGENCIES HAVE BEEN INCLUDED FOR MINIMAL ADDITIONAL DISTURBANCE TO THESE ITEMS.



DWG. AB-01

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 ENGINEERING  
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 DESIGN SECTION  
 240-777-7221

MONTGOMERY COUNTY  
 DEPARTMENT OF TRANSPORTATION  
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 Chief, Division of Transportation Engineering

NO.	REVISION	DATE	BY

DESIGNED BY JPS DRAWN BY AWG CHECKED BY CJB

MONTGOMERY COUNTY  
 DEPARTMENT OF TRANSPORTATION  
 DIVISION OF TRANSPORTATION ENGINEERING  
 MD 586/VEIRS MILL ROAD BIKE AND  
 PEDESTRIAN PRIORITY AREA -  
 CENTRAL SECTOR  
 GENERAL NOTES, ABBREVIATIONS & SYMBOLS

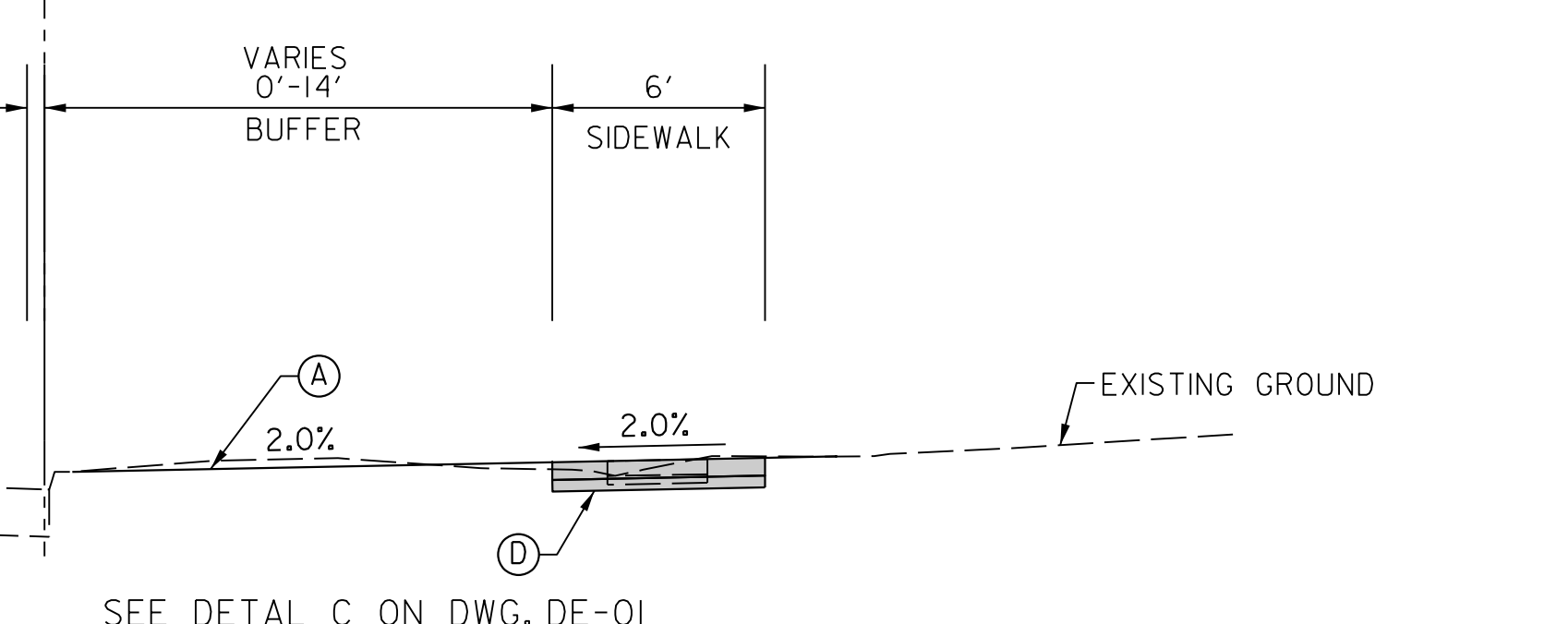
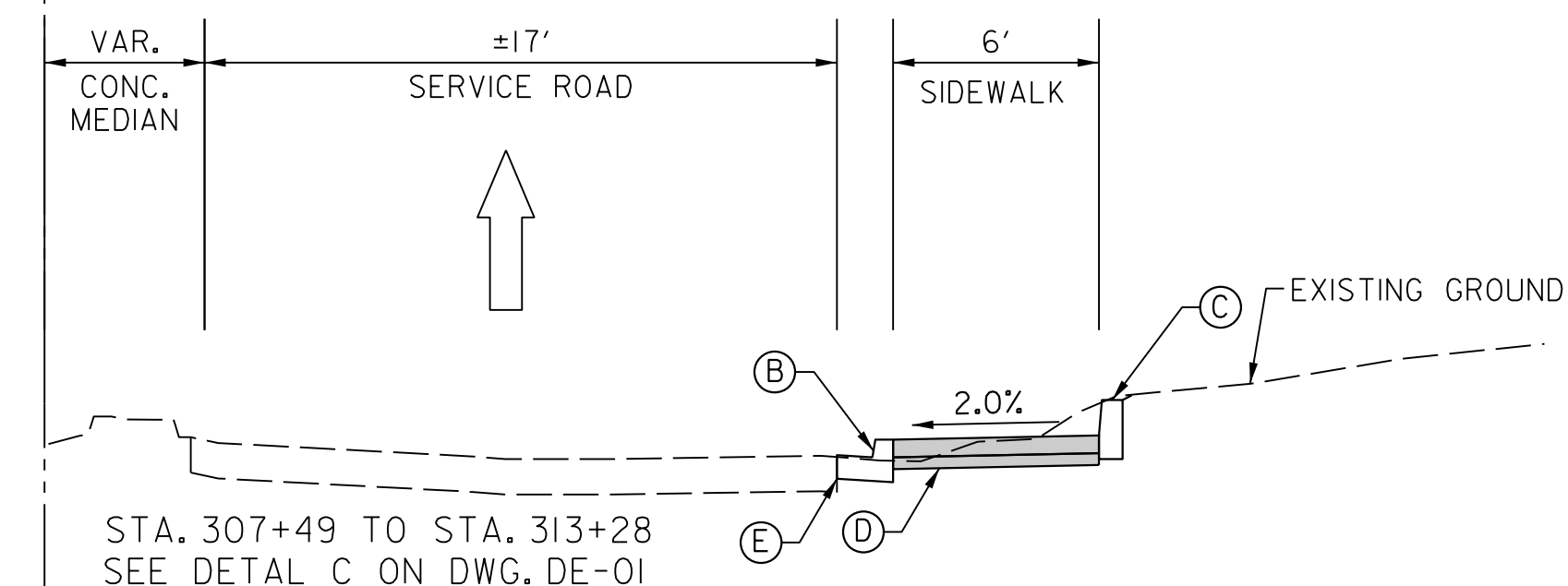
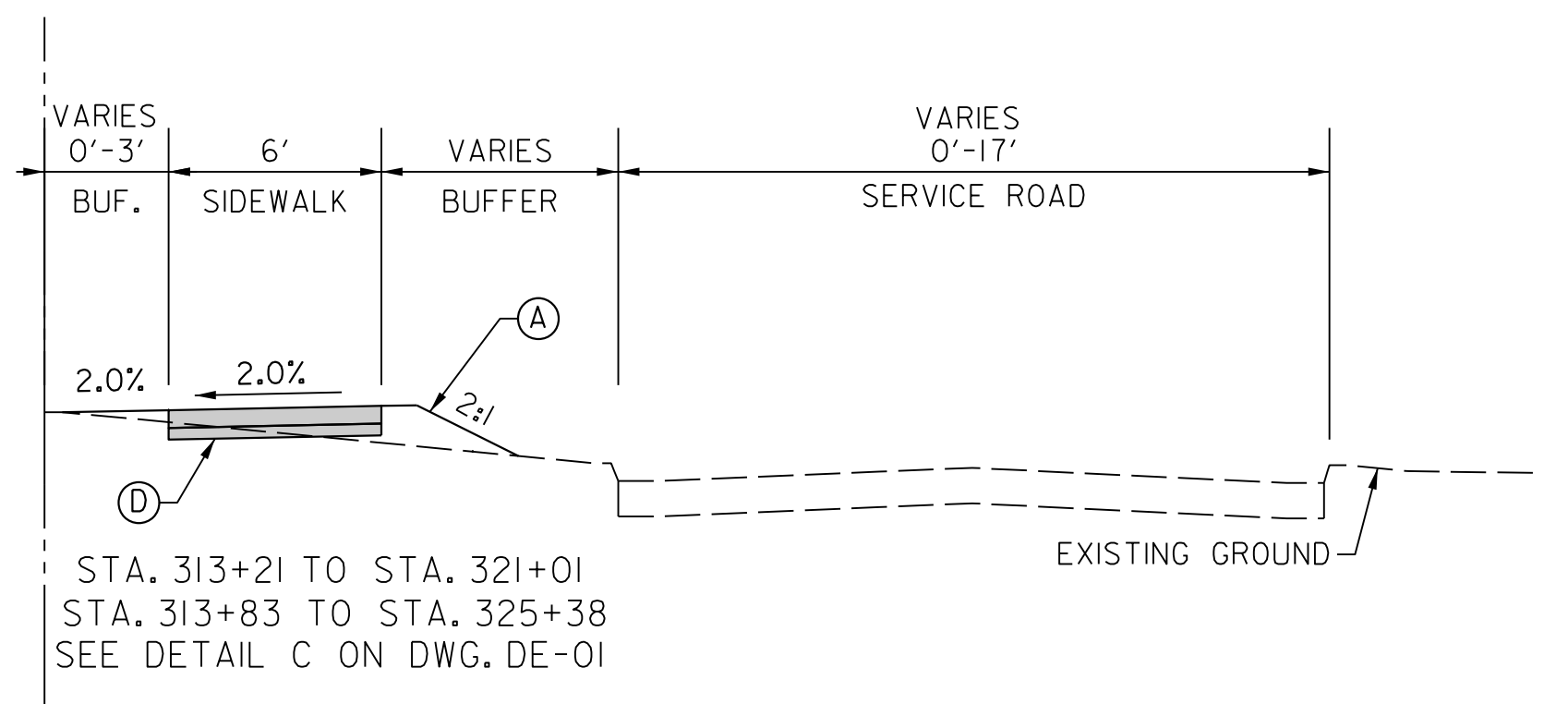
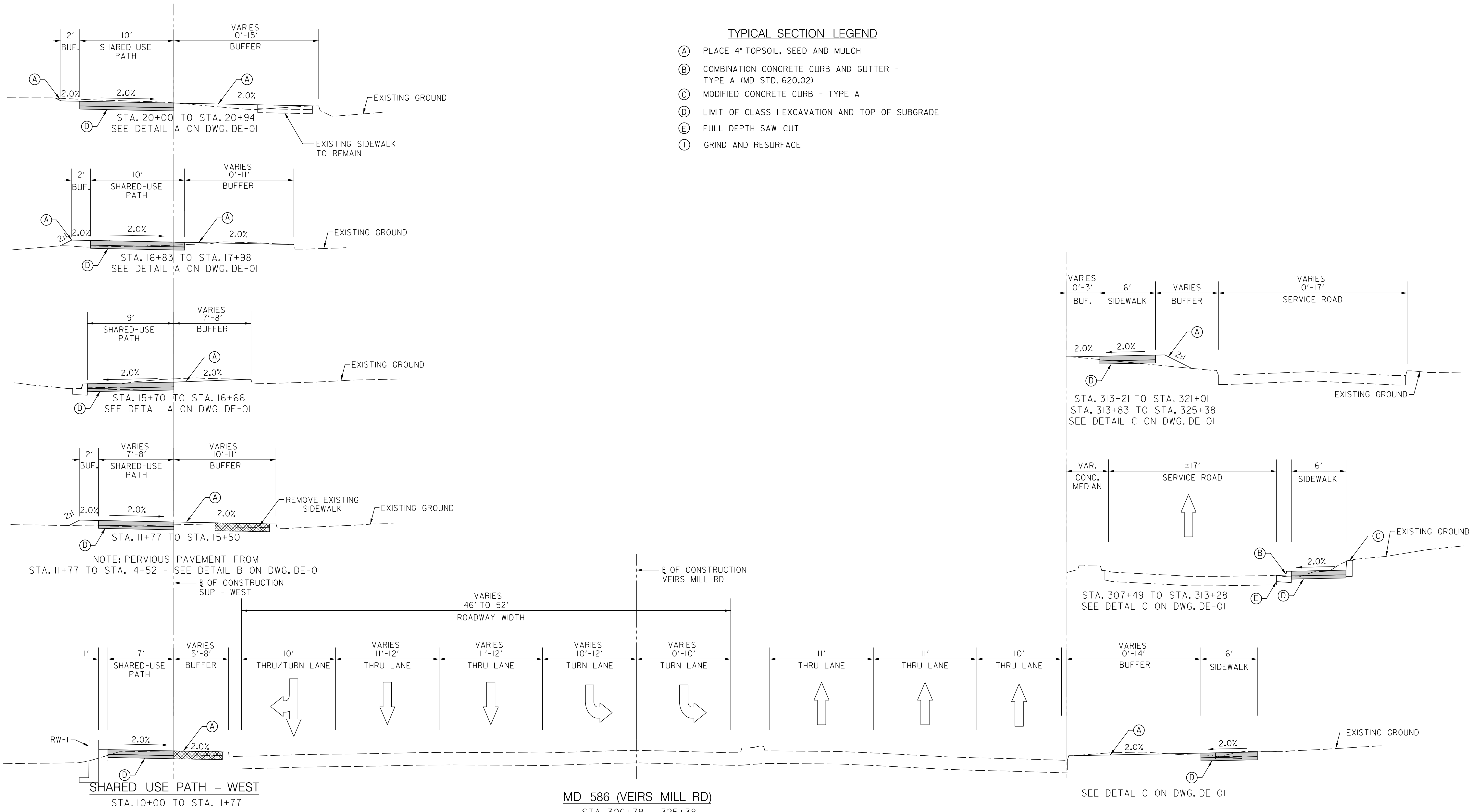
SCALE NONE DATE JUNE 2022

CONTRACT NO. 502003 SHEET NO. 2 OF 46

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TYPICAL SECTION LEGEND

- (A) PLACE 4" TOPSOIL, SEED AND MULCH
- (B) COMBINATION CONCRETE CURB AND GUTTER - TYPE A (MD STD. 620.02)
- (C) MODIFIED CONCRETE CURB - TYPE A
- (D) LIMIT OF CLASS I EXCAVATION AND TOP OF SUBGRADE
- (E) FULL DEPTH SAW CUT
- (I) GRIND AND RESURFACE



NOTE: PERVIOUS PAVEMENT FROM STA. 11+35 TO STA. 11+77 - SEE DETAIL B ON DWG. DE-01

SEE DETAL C ON DWG. DE-01

DWG. HT-01

PLOTTER: 6/23/2022  
 FILE: \s\k\kccm\10\1000\Projects\2020\2007\_MD007Temp\12 - Veirs Mill BiPPA - CentralSector\CADD\Plan\HT-01\_VeirsMill-Central.dwg



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MONTGOMERY COUNTY  
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MD 586/VEIRS MILL BIKE AND PEDESTRIAN  
 PRIORITY AREA - CENTRAL SECTOR

TYPICAL SECTIONS

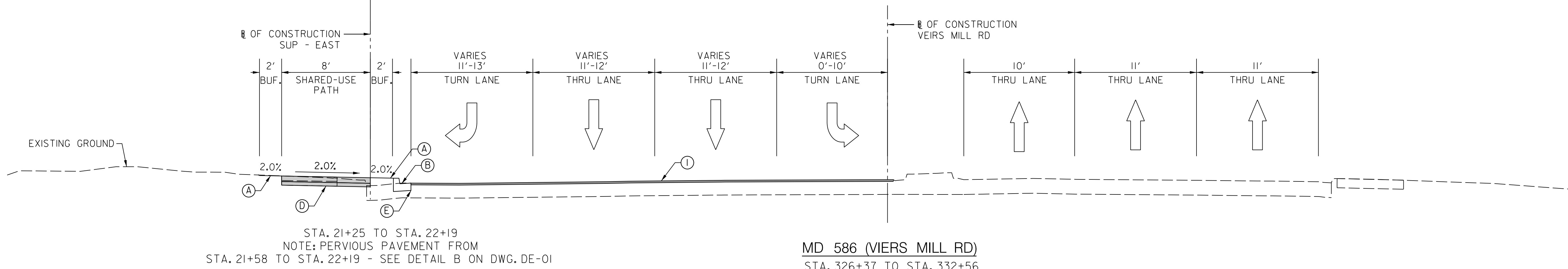
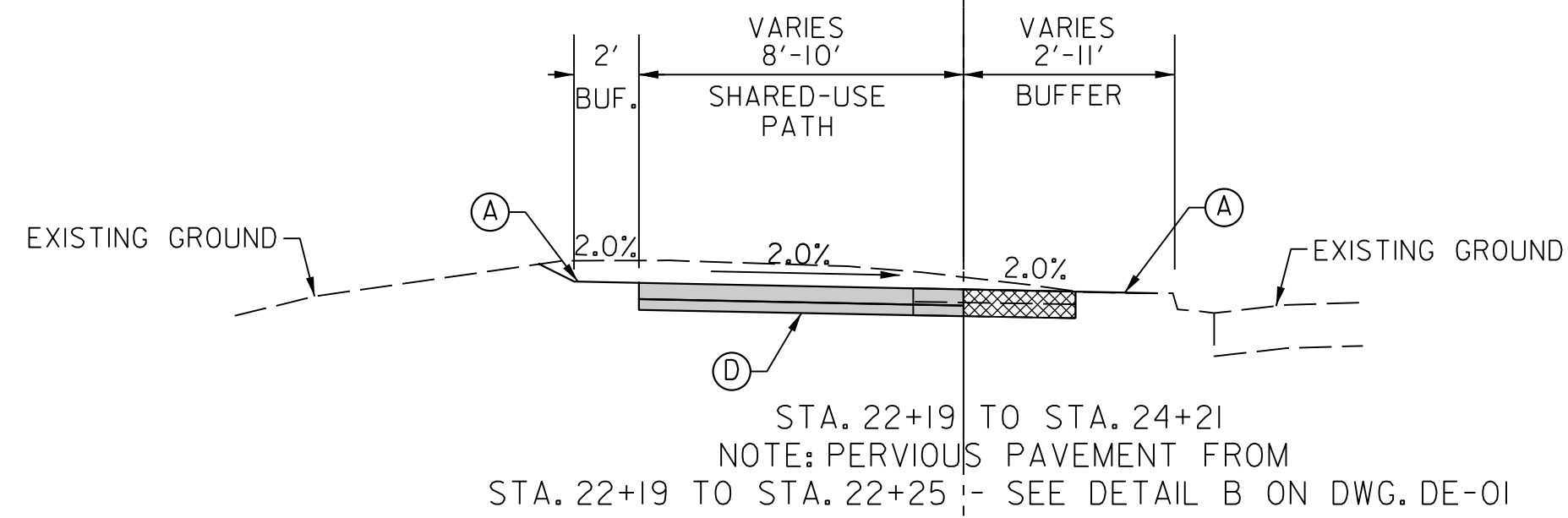
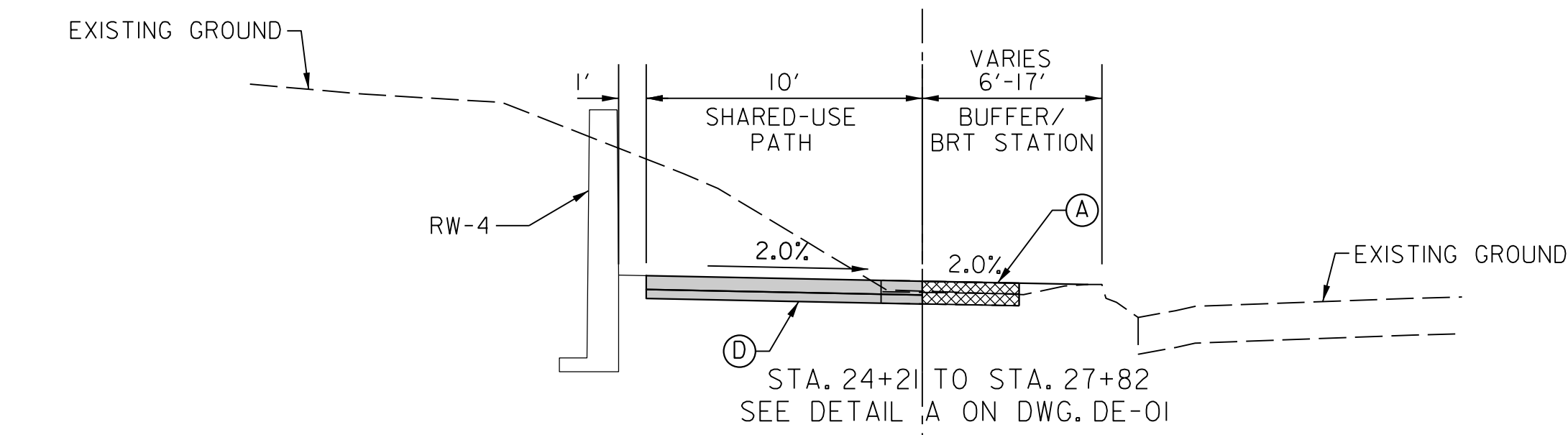
SCALE 1"=5' DATE JUNE 2022

CONTRACT NO. 502003 SHEET NO. 3 OF 46

DESIGNED BY JPS DRAWN BY DEA CHECKED BY CJB

**TYPICAL SECTION LEGEND**

- (A) PLACE 4" TOPSOIL, SEED AND MULCH
- (B) COMBINATION CONCRETE CURB AND GUTTER - TYPE A (MD STD. 620.02)
- (C) MODIFIED CONCRETE CURB - TYPE A
- (D) LIMIT OF CLASS I EXCAVATION AND TOP OF SUBGRADE
- (E) FULL DEPTH SAW CUT
- (I) GRIND AND RESURFACE



PLOTTER: 6/29/2022  
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 Chief, Transportation Planning and Design Section Date \_\_\_\_\_

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MONTGOMERY COUNTY  
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MD 586/VIERS MILL BIKE AND PEDESTRIAN  
 PRIORITY AREA - CENTRAL SECTOR

TYPICAL SECTIONS

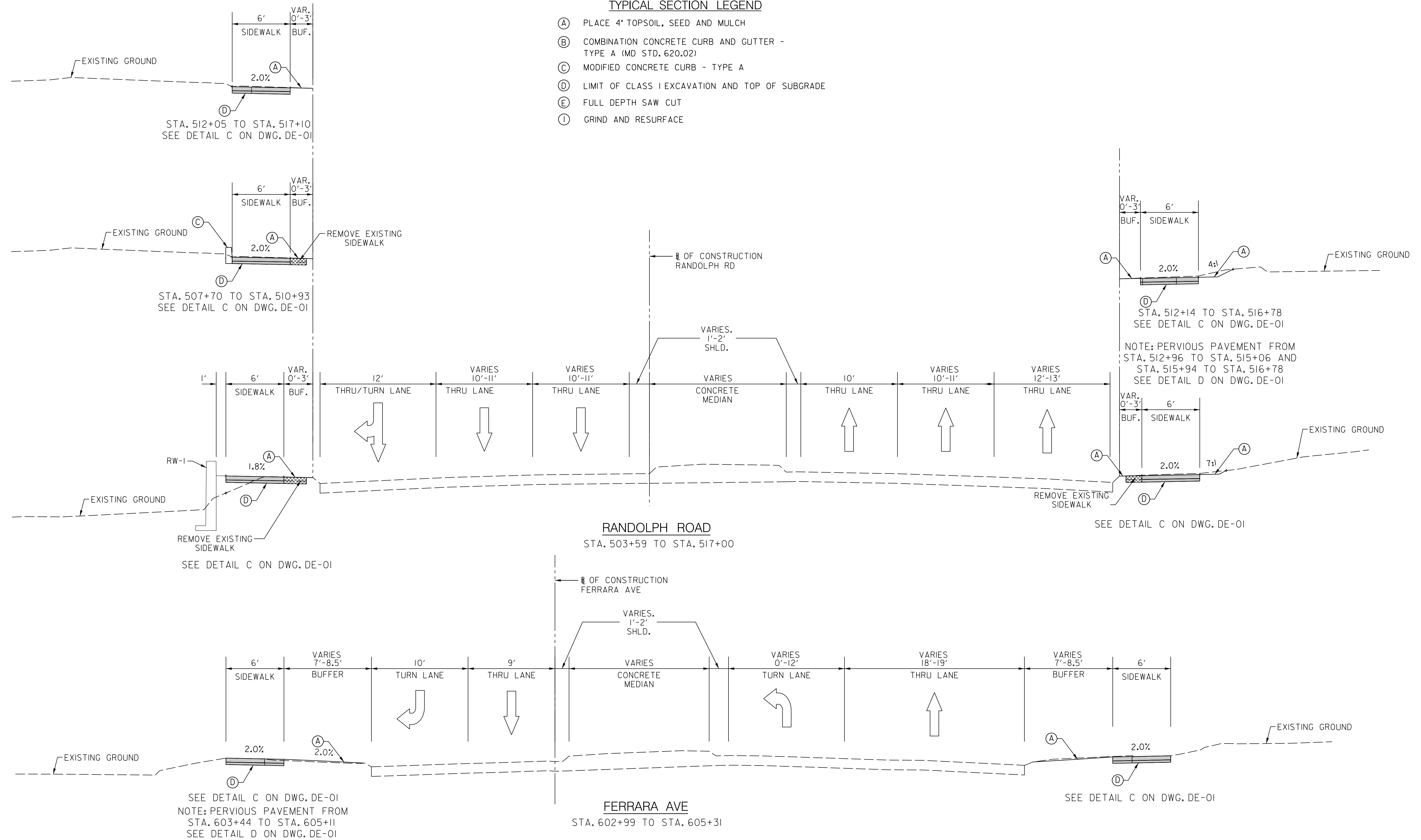
SCALE 1"=5' DATE JUNE 2022

CONTRACT NO. 502003 SHEET NO. 4 OF 46

DWG. HT-02

TYPICAL SECTION LEGEND

- (A) PLACE 4" TOPSOIL, SEED AND MULCH
- (B) COMBINATION CONCRETE CURB AND GUTTER - TYPE A (MD STD. 620.02)
- (C) MODIFIED CONCRETE CURB - TYPE A
- (D) LIMIT OF CLASS I EXCAVATION AND TOP OF SUBGRADE
- (E) FULL DEPTH SAW CUT
- (F) GRIND AND RESURFACE



NOTE: PERVIOUS PAVEMENT FROM STA. 512+96 TO STA. 515+06 AND STA. 515+94 TO STA. 516+78 SEE DETAIL D ON DWG. DE-01

NOTE: PERVIOUS PAVEMENT FROM STA. 603+44 TO STA. 605+11 SEE DETAIL D ON DWG. DE-01

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MD 586/VEIRS MILL BIKE AND PEDESTRIAN  
 PRIORITY AREA - CENTRAL SECTOR

TYPICAL SECTIONS

SCALE 1"=5' DATE JUNE 2022

CONTRACT NO. 502003 SHEET NO. 5 OF 46

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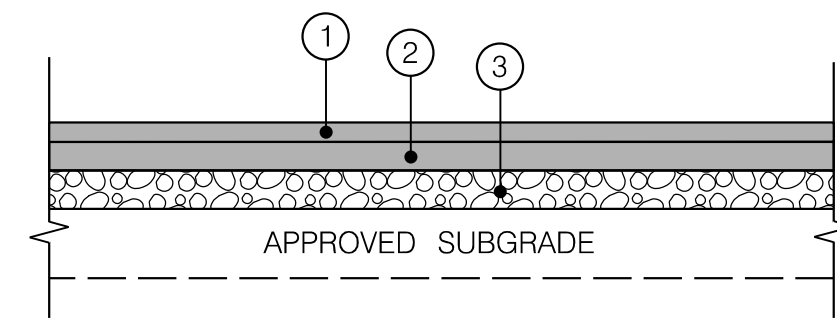
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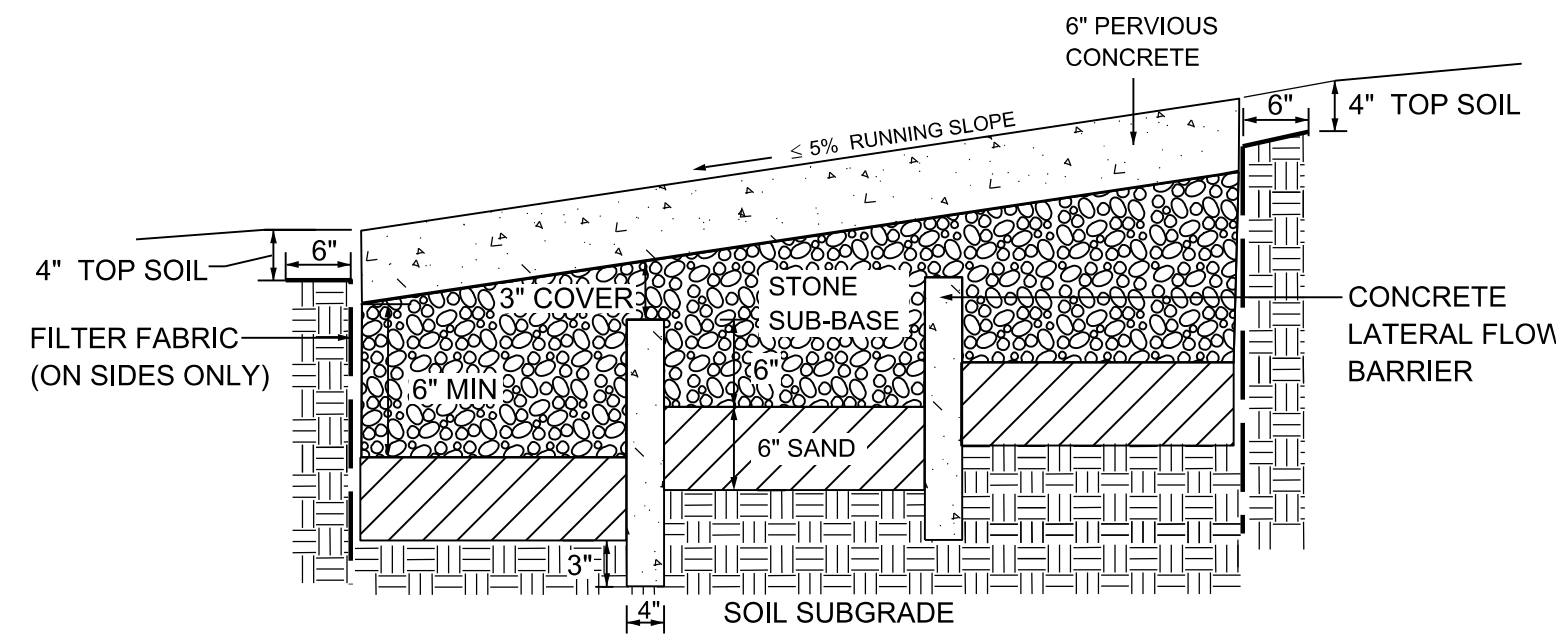
DWG. HT-03

PAVEMENT LEGEND

- ① 2" SUPERPAVE ASPHALT MIX, 9.5 mm FOR SURFACE, PG 64S-22, L2
- ② 2" SUPERPAVE ASPHALT MIX, 19 mm FOR BASE, PG 64S-22, L2
- ③ 4" GRADED AGGREGATE BASE COURSE
- ④ 2" PERVIOUS ASPHALT MIX 12.5 MM FOR SURFACE
- ⑤ 2" PERVIOUS ASPHALT MIX 19.0 MM FOR BASE
- ⑥ 6" GRADED AGGREGATE BASE COURSE
- ⑦ 4" CONCRETE FOR SIDEWALKS, MD SHA MIX NO. 3
- ⑧ 8" PORTLAND CEMENT CONCRETE MIX NO. 9
- ⑨ STANDARD TYPE A CONCRETE CURB & GUTTER. REFER TO MD SHA STD. NO. MD 620.02



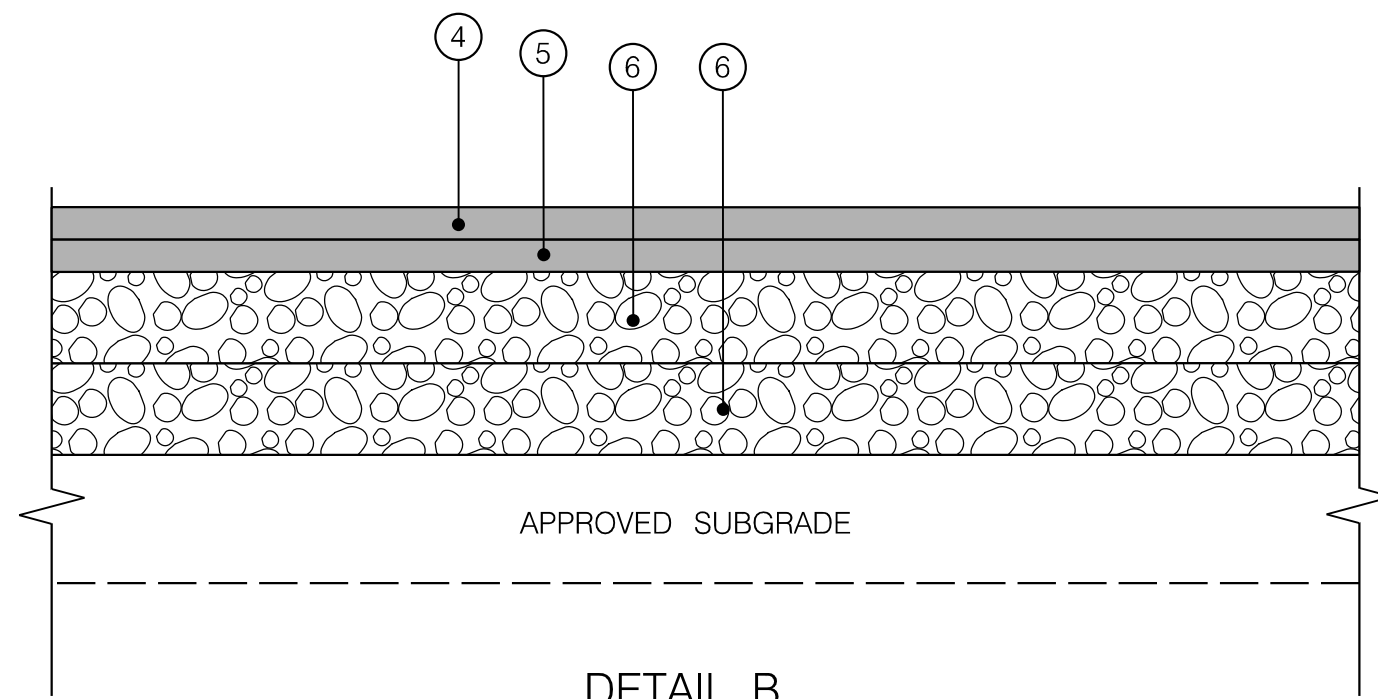
DETAIL A  
SHARED-USE PATH SECTION  
NOT TO SCALE



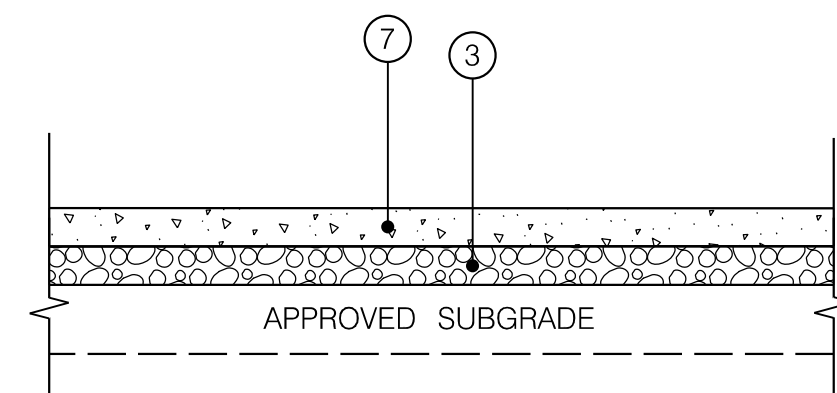
**GENERAL REQUIREMENTS:**  
 WITHIN THREE (3) DAYS OF INSTALLATION, CONTRACTOR MUST PERFORM SINGLE RING INFILTRATION TESTS. POURED-IN-PLACE CONCRETE MUST REMAIN FREE FROM ALL LIGHT VEHICULAR TRAFFIC FOR A MINIMUM OF SEVEN (7) DAYS. HEAVY VEHICULAR TRAFFIC MUST BE RESTRICTED FOR AT LEAST TEN (10) DAYS AFTER PLACEMENT. POST CONSTRUCTION OF INFILTRATION RATES REQUIRED FOR ALL SURFACES MUST CONFORM TO ASTM C1701 FOR POURED-IN-PLACE PERMEABLE CONCRETE, OR ASTM C1781 FOR PERMEABLE PAVERS.

**LEGEND:**  
 FILTER FABRIC: ENGINEER-APPROVED, SD TYPE II NON-WOVEN GEOTEXTILE FABRIC, ON SIDES ONLY.  
 STONE SUB-BASE: CLEAN, OPEN GRADED, WASHED SILICA STONE MEETING MD SHA COURSE AGGREGATE 57 GRADING REQUIREMENTS. FILTER CLOTH SHALL NOT BE USED HORIZONTALLY BETWEEN THE SUB-BASE MATERIAL AND THE SOIL SUB-GRADE.  
 SAND: WASHED ASTM C33 FINE AGGREGATE CONCRETE SAND.  
 SOIL SUBGRADE: SITE GEOTECHNICAL ENGINEER-APPROVED SUBGRADE SHALL BE PROOF ROLLED AND SCARIFIED. BOTTOM SHALL BE STEPPED.  
 PERVIOUS CONCRETE: PERVIOUS CONCRETE CONSTRUCTION MUST BE PERFORMED BY NATIONAL READY MIXED ASSOCIATION CERTIFIED PERVIOUS CONCRETE INSTALLER. ALL CONSTRUCTION MUST BE DONE PER ACI 522.13.  
 LATERAL FLOW BARRIERS: LATERAL FLOW BARRIERS SHALL BE MADE OF CONCRETE MIX NO. 3. LATERAL FLOW BARRIERS MUST SEPARATE CELLS THAT DO NOT SHARE THE SAME SOIL SUBGRADE ELEVATION.

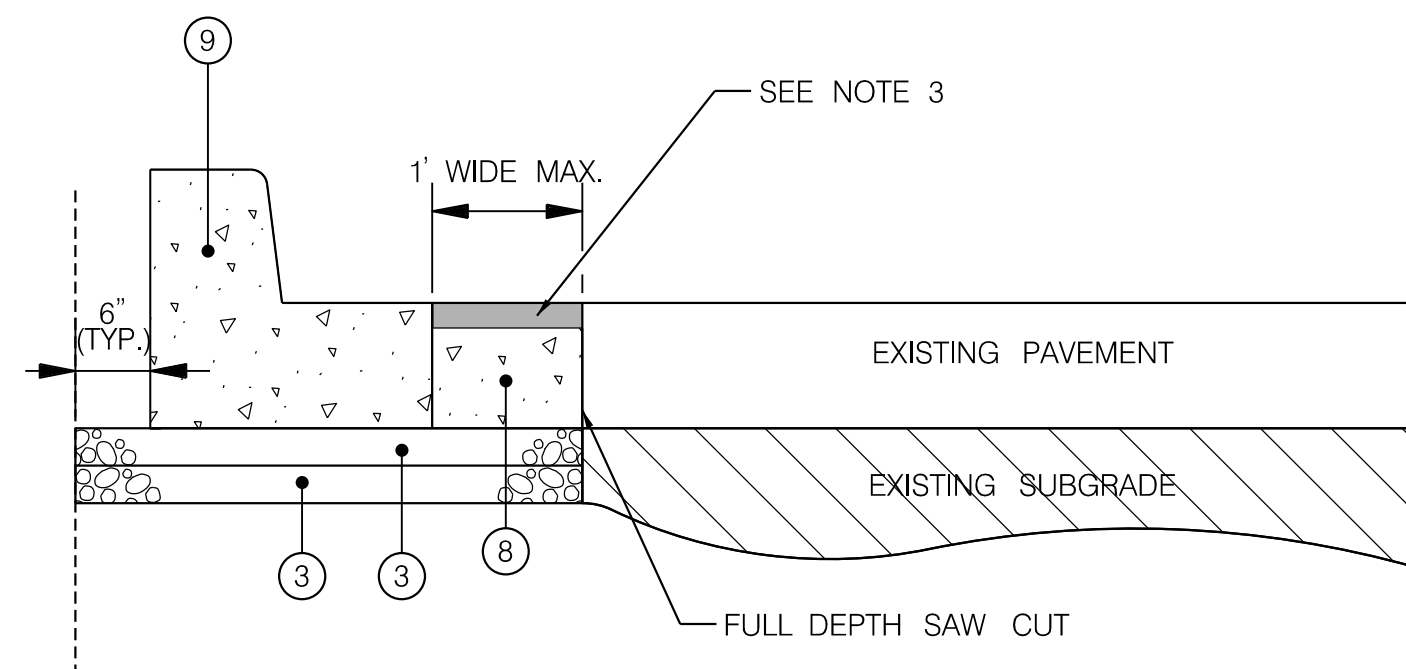
DETAIL D  
PERVIOUS CONCRETE SIDEWALK  
NOT TO SCALE



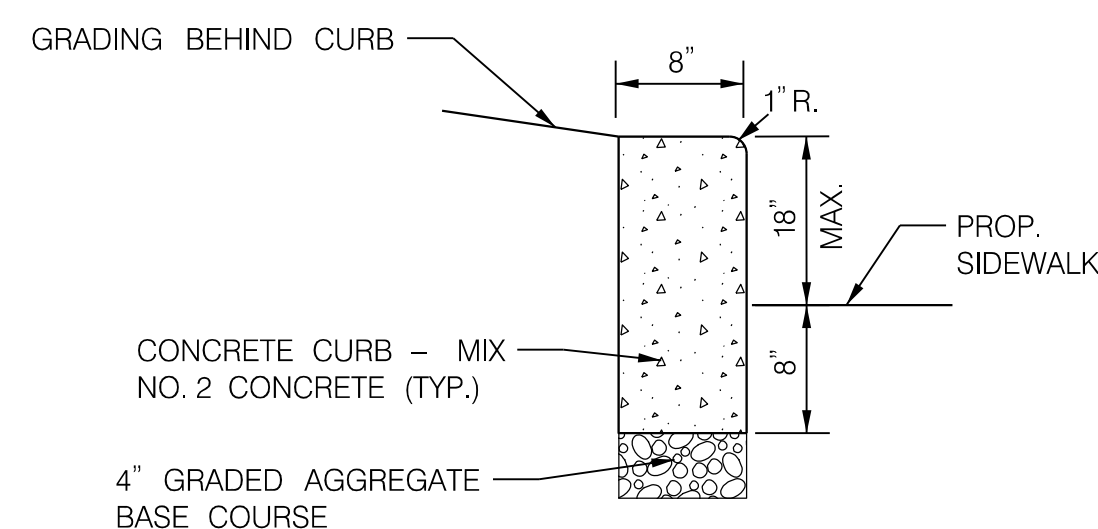
DETAIL B  
PERVIOUS ASPHALT PATH  
NOT TO SCALE



DETAIL C  
SIDEWALK SECTION  
NOT TO SCALE



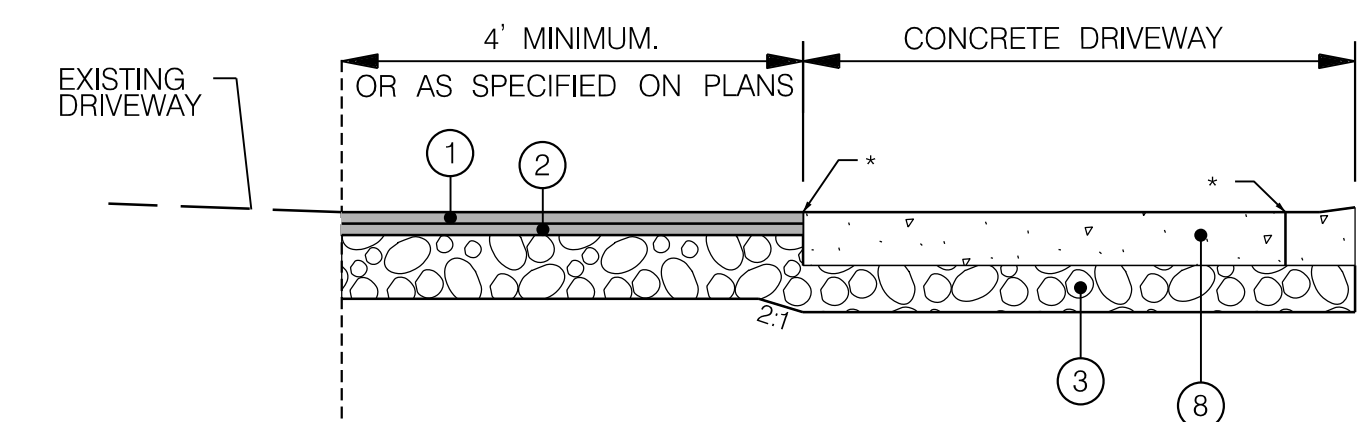
DETAIL E  
NEW CURB AND GUTTER PLACEMENT  
NOT TO SCALE



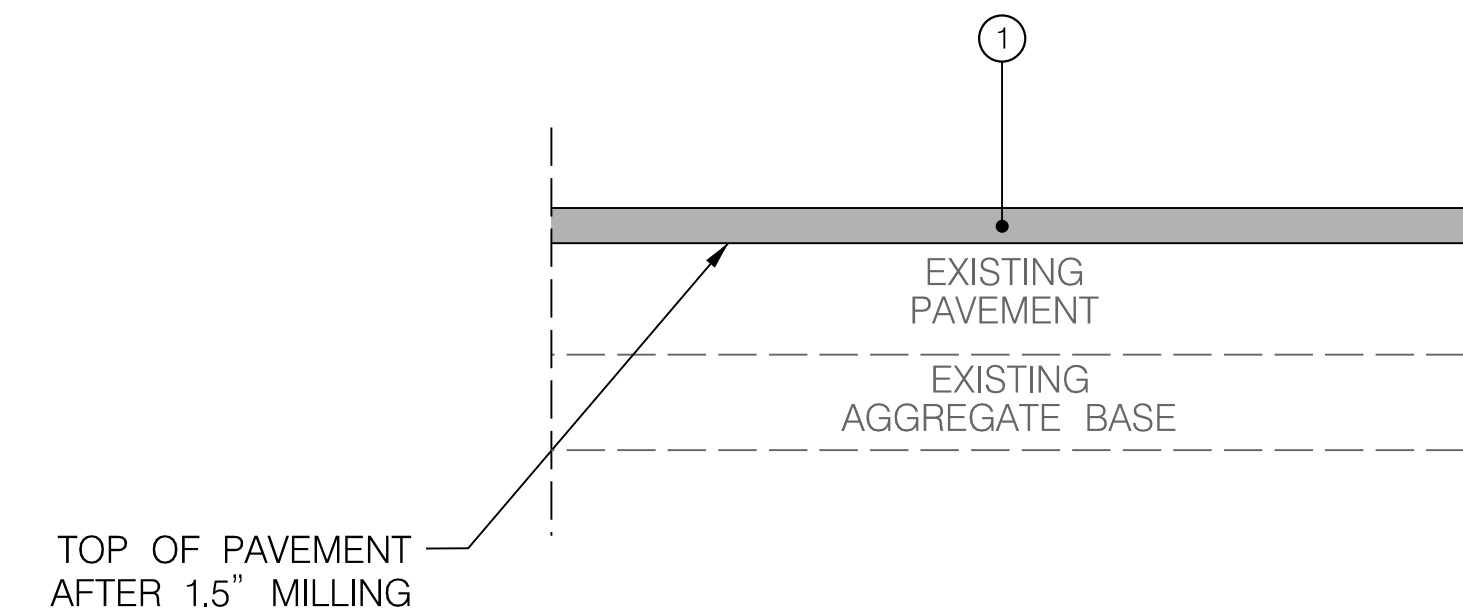
DETAIL I  
MODIFIED TYPE A CURB  
NOT TO SCALE

PAVEMENT DETAIL NOTES

- REMOVE AND DISPOSE OF ALL SOFT AND UNSTABLE MATERIAL PER SECTION 208 OF THE MDSHA STANDARD SPECIFICATIONS FOR CONSTRUCTION AND MATERIALS, JULY 2021. BACKFILL EXCAVATED AREA WITH SELECT BORROW.
- IN AREAS WHERE EXISTING PAVEMENT IS BEING REMOVED, THE LIMIT OF EXCAVATION SHALL BE AT THE BOTTOM OF THE BOUND MATERIALS IN THE EXISTING PAVEMENT OR AT THE TOP OF SUBGRADE, WHICHEVER IS LOWER.
- THIS WORK IS TO BE DONE AT THE CONTRACTOR'S OPTION. AN ADDITIONAL 1' WIDTH (MAXIMUM) EXCAVATION MAY BE USED FOR CURB AND GUTTER FORM PLACEMENT. THE ADDITIONAL EXCAVATION WIDTH IS TO BE FILLED WITH A MINIMUM OF 8" GAB AND PORTLAND CEMENT CONCRETE MIX NO. 3 FROM THE BOTTOM OF THE STANDARD CURB AND GUTTER TO 2" BELOW THE FINAL ASPHALT SURFACE ELEVATION. PAYMENT SHALL BE INCIDENTAL TO THE LINEAR FOOT ITEM FOR CURB & GUTTER. TRANSVERSE JOINTS SHALL MATCH THOSE OF THE CURB AND GUTTER. DOWEL BARS ARE NOT NECESSARY.  
 ALTERNATIVELY, THE CONTRACTOR MAY CHOOSE TO SAW-CUT THE EXISTING PAVEMENT AND PLACE THE NEW CURB AND GUTTER DIRECTLY AGAINST THE SAWED EDGE.



DETAIL F  
DRIVEWAY SECTION  
NOT TO SCALE



DETAIL G  
FINE MILLING AND RESURFACING  
NOT TO SCALE



DWG. DE-01

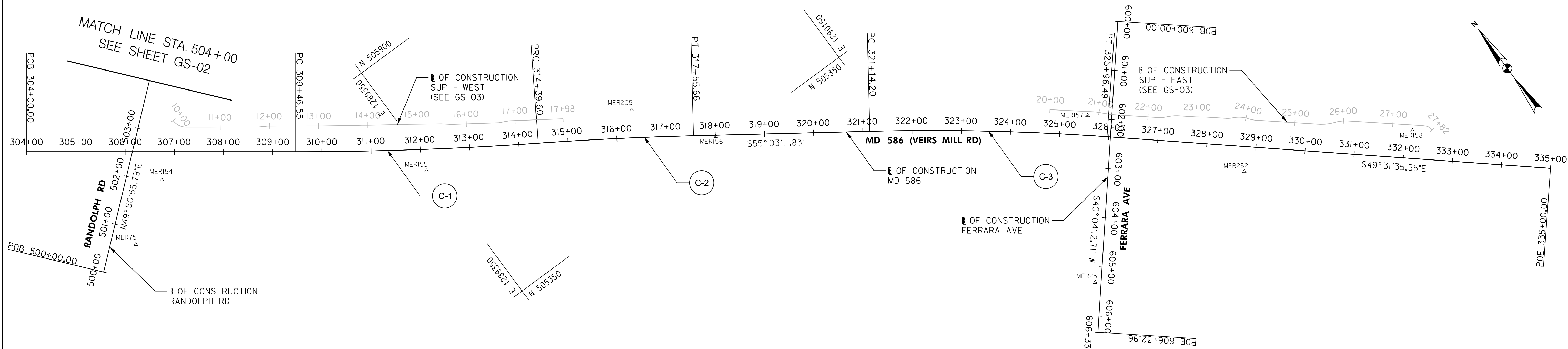
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CONTACT: DIVISION OF TRANSPORTATION ENGINEERING 240-777-7220 DESIGN SECTION 240-777-7221			
NO.	REVISION	DATE	BY

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APPROVED SEE TITLE SHEET FOR SIGNATURE _____ Chief, Division of Transportation Engineering Date _____	
DESIGNED BY <u>JPS</u>	DRAWN BY <u>DEA</u>
CHECKED BY <u>CJB</u>	

MONTGOMERY COUNTY DEPARTMENT OF TRANSPORTATION DIVISION OF TRANSPORTATION ENGINEERING	
MD 586/VEIRS MILL BIKE AND PEDESTRIAN PRIORITY AREA - CENTRAL SECTOR	
PAVEMENT DETAILS	
SCALE <u>NO SCALE</u>	DATE <u>JUNE 2022</u>
CONTRACT NO. 502003	SHEET NO. <u>6</u> OF <u>46</u>



BASELINE CONTROL COORDINATES					
BASELINE	POINT NO.	STATION	NORTH	EAST	BEARING
MD 586 (VEIRS MILL RD)	POB	304+00.00	506175.0093	1288707.6432	S 53°36'16.41" E
	PC	309+46.55	505850.7105	1289147.5846	
	PI	311+93.18	505704.3721	1289346.1063	S 57°38'24.92" E
	PRC	314+39.60	505572.3681	1289554.4347	
	PI	315+97.66	505487.7713	1289687.9451	S 55°03'11.83" E
	PT	317+55.66	505397.2346	1289817.5012	
	PC	321+14.20	505191.8621	1290111.3849	S 49°31'35.55" E
	PI	323+55.53	505053.6209	1290309.2052	
	PT	325+96.49	504896.9701	1290492.7918	S 40°04'12.71" W
POE	335+00.00	504310.5088	1291180.0942		
FERRARA AVE	POB	600+00.00	505072.5398	1290649.5880	S 40°04'12.71" W
	POE	606+32.96	504588.1623	1290242.1346	
RANDOLPH RD	POB	500+00.00	505885.5743	1288688.3730	N 49°50'55.79" E

TRAVERSE CONTROL				
TRAV PT.	NORTHING	EASTING	ELEVATION	DESCRIPTION
MER75	505,891.8906	1,288,774.4720	365.68	TRAV
MER154	505,966.0048	1,288,894.6233	373.60	TRAV
MER155	505,661.6875	1,289,338.5442	369.47	TRAV
MER156	505,369.3488	1,289,853.0953	339.26	TRAV
MER157	504,955.0722	1,290,486.5586	326.93	TRAV
MER158	504,538.5016	1,290,999.6499	311.38	TRAV
MER205	505,513.8589	1,289,747.6048	343.97	TRAV
MER251	504,673.0161	1,290,297.9385	316.17	TRAV
MER252	504,674.5792	1,290,675.5801	322.97	TRAV

CURVE DATA						
CURVE	DELTA	Dc	RADIUS	TANGENT	LENGTH	EXTERNAL
C-1	4°02'08.52" LT.	0°49'06.64"	7000.00'	246.63'	493.05'	4.34'
C-2	2°35'13.09" RT.	0°49'06.64"	7000.00'	158.06'	316.06'	1.78'
C-3	5°31'36.28" RT.	1°08'45.30"	5000.00'	241.34'	482.30'	5.82'

PLOTTER: e626262  
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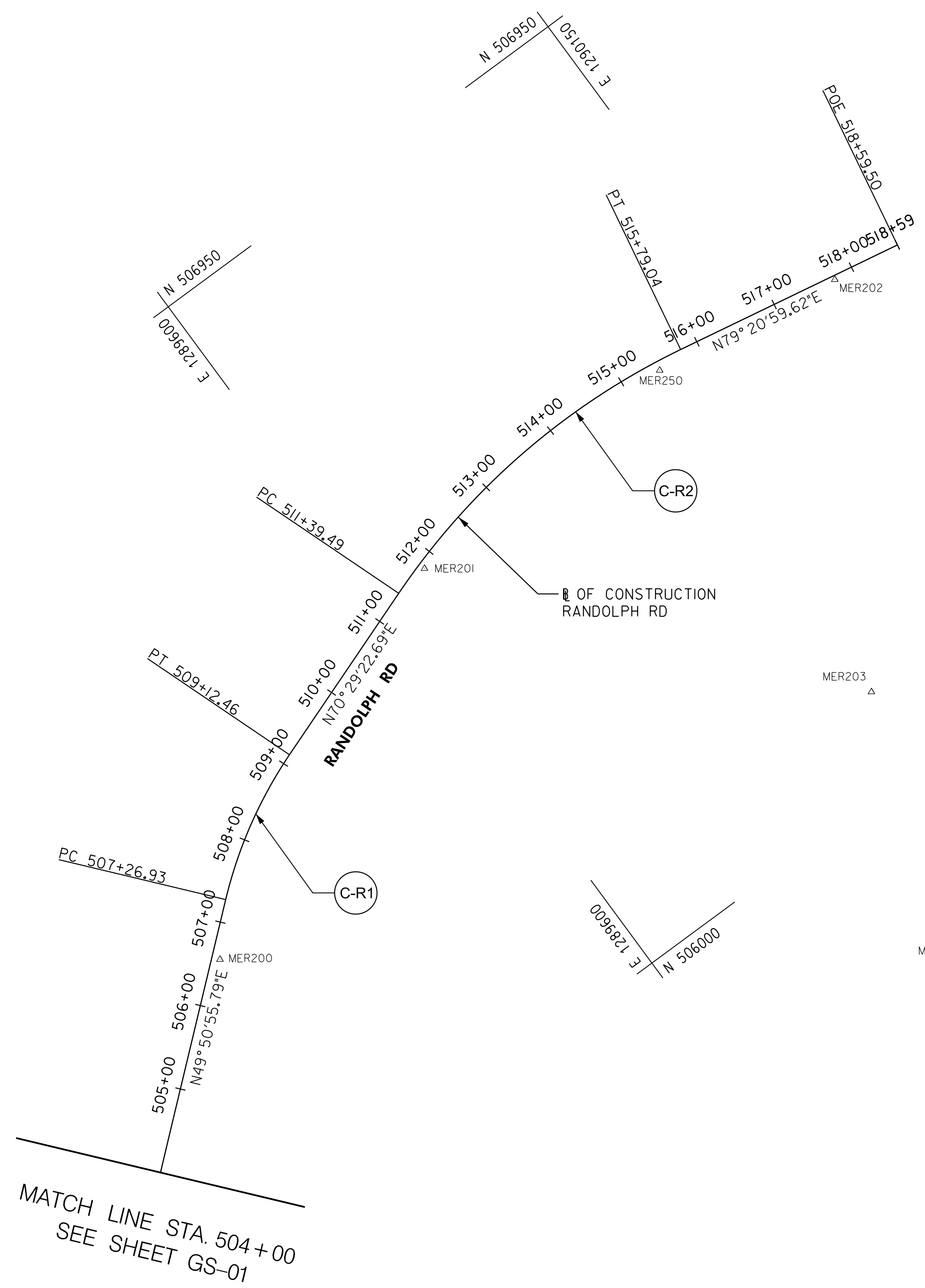
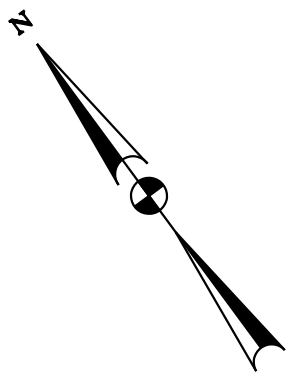
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MONTGOMERY COUNTY  
 DEPARTMENT OF TRANSPORTATION  
 DIVISION OF TRANSPORTATION ENGINEERING  
**MD 586/VEIRS MILL BIKE AND PEDESTRIAN  
 PRIORITY AREA - CENTRAL SECTOR**  
**GEOMETRY SHEET**  
 SCALE 1" = 100' DATE JUNE 2022  
 CONTRACT NO. 502003 SHEET NO. 7 OF 46

DWG. GS-01



TRAVERSE CONTROL				
TRAV PT.	NORTHING	EASTING	ELEVATION	DESCRIPTION
MER200	506,302.1355	1,289,197.2549	363.61	TRAV
MER201	506,527.3263	1,289,659.4680	381.25	TRAV
MER202	506,514.4856	1,290,244.2033	375.35	TRAV
MER203	506,102.4486	1,289,993.5551	353.05	TRAV
MER204	505,786.1865	1,289,888.1908	348.48	TRAV
MER250	506,550.4933	1,290,017.1715	380.79	TRAV

BASELINE CONTROL COORDINATES					
BASELINE	POINT NO.	STATION	NORTH	EAST	BEARING
RANDOLPH RD	POB	500+00.00	505885.5743	1288688.3730	N 49° 50' 55.79" E
	PC	507+26.93	506354.3023	1289243.9975	
	PI	508+20.71	506414.7728	1289315.6785	N 70° 29' 22.69" E
	PT	509+12.46	506446.0934	1289404.0746	
	PC	511+39.49	506521.9185	1289618.0748	
	PI	513+64.48	506597.0605	1289830.1474	S 79° 20' 59.62" E
	PT	515+79.04	506555.4796	1290051.2630	
POE	518+59.50	506503.6478	1290326.8908		

CURVE DATA						
CURVE	DELTA	Dc	RADIUS	TANGENT	LENGTH	EXTERNAL
C-R1	20° 38' 26.91" RT.	11° 07' 31.42"	515.00'	93.78'	185.53'	8.47'
C-R2	30° 09' 37.68" RT.	6° 51' 42.37"	835.00'	224.99'	439.54'	29.78'

MATCH LINE STA. 504+00  
SEE SHEET GS-01

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 FILE: \\vkkk\ccm\1\A\Draw\Projects\2020\20097\_MCDOTTemp\Task\_12 - Veirs Mill BiPPA - CentralSector\CAD\Plan\GS-02\_Veirs Mill-Central.dgn

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MD 586/VEIRS MILL BIKE AND PEDESTRIAN  
 PRIORITY AREA - CENTRAL SECTOR

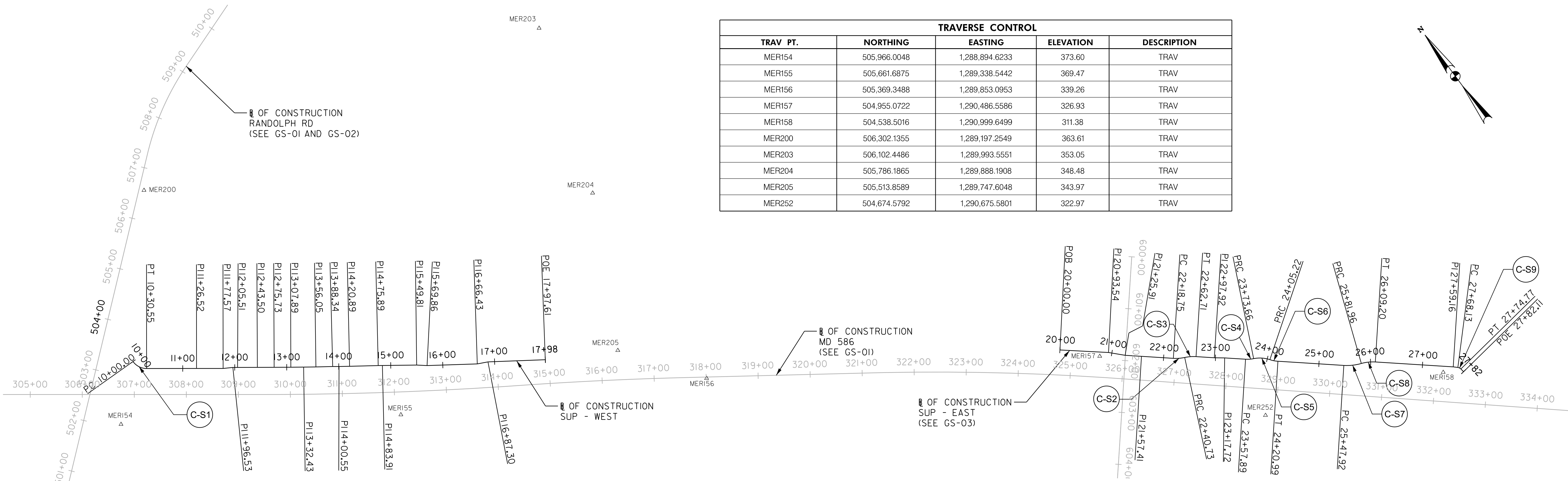
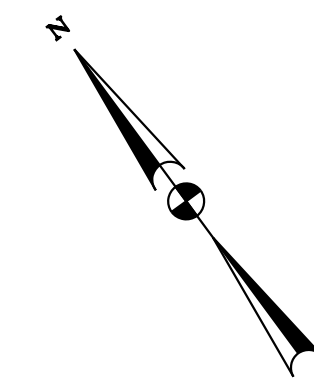
GEOMETRY SHEET

SCALE 1" = 100' DATE JUNE 2022

CONTRACT NO. 502003 SHEET NO. 8 OF 46

DWG. GS-02

TRAVERSE CONTROL				
TRAV PT.	NORTHING	EASTING	ELEVATION	DESCRIPTION
MER154	505,966.0048	1,288,894.6233	373.60	TRAV
MER155	505,661.6875	1,289,338.5442	369.47	TRAV
MER156	505,369.3488	1,289,853.0953	339.26	TRAV
MER157	504,955.0722	1,290,486.5586	326.93	TRAV
MER158	504,538.5016	1,290,999.6499	311.38	TRAV
MER200	506,302.1355	1,289,197.2549	363.61	TRAV
MER203	506,102.4486	1,289,993.5551	353.05	TRAV
MER204	505,786.1865	1,289,888.1908	348.48	TRAV
MER205	505,513.8589	1,289,747.6048	343.97	TRAV
MER252	504,674.5792	1,290,675.5801	322.97	TRAV



BASELINE CONTROL COORDINATES					
BASELINE	POINT NO.	STATION	NORTH	EAST	BEARING
SUP - WEST	PC	10+00.00	506049.5809	1288984.8550	S 01°02'27.18" W
	PI	10+16.55	506033.0341	1288984.5543	
	PT	10+30.55	506023.2256	1288997.8839	S 53°39'09.08" E
	PI	11+26.52	505966.3423	1289075.1868	S 53°39'09.08" E
	PI	11+77.57	505936.0879	1289116.3017	S 59°30'46.70" E
	PI	11+96.53	505926.4666	1289132.6439	S 53°20'31.76" E
	PI	12+05.51	505921.1072	1289139.8451	S 53°51'48.90" E
	PI	12+43.50	505898.7033	1289170.5275	S 53°49'31.34" E
	PI	12+75.73	505879.6831	1289196.5395	S 53°45'18.29" E
	PI	13+07.89	505860.6657	1289222.4808	S 54°26'26.31" E
	PI	13+32.43	505846.3977	1289242.4400	S 54°20'14.58" E
	PI	13+56.05	505832.6244	1289261.6341	S 55°05'37.05" E
	PI	13+88.34	505814.1468	1289288.1148	S 53°26'09.46" E
	PI	14+00.55	505806.8731	1289297.9217	S 54°54'18.25" E
	PI	14+20.89	505795.1811	1289314.5609	S 54°56'54.69" E
	PI	14+75.89	505763.5901	1289359.5914	S 54°55'51.02" E
	PI	14+83.91	505758.9849	1289366.1513	S 54°17'46.98" E
	PI	15+49.81	505720.5247	1289419.6673	S 50°42'46.87" E
	PI	15+69.86	505707.8320	1289435.1820	S 55°31'37.02" E
	PI	16+66.43	505653.1708	1289514.7946	S 64°29'43.97" E
PI	16+87.30	505644.1824	1289533.6355	S 55°42'52.97" E	
POE	17+97.61	505582.0460	1289624.7744		

BASELINE CONTROL COORDINATES					
BASELINE	POINT NO.	STATION	NORTH	EAST	BEARING
SUP - EAST	POB	20+00.00	505010.1599	1290432.1227	S 50°39'29.68" E
	PI	20+93.54	504950.8613	1290504.4639	S 43°58'17.95" E
	PI	21+25.91	504927.5679	1290526.9358	S 50°00'30.73" E
	PI	21+57.41	504907.3174	1290551.0766	S 50°00'30.73" E
	PC	22+18.75	504867.8972	1290598.0700	
	PI	22+29.81	504860.7901	1290606.5425	
	PRC	22+40.73	504856.2480	1290616.6253	S 65°44'56.70" E
	PI	22+51.79	504851.7058	1290626.7080	
	PT	22+62.71	504844.5988	1290635.1805	S 50°00'30.73" E
	PI	22+97.92	504821.9664	1290662.1608	S 52°54'13.11" E
	PI	23+17.72	504810.0245	1290677.9529	S 50°00'30.73" E
	PC	23+57.89	504784.2116	1290708.7248	
	PI	23+65.82	504779.1129	1290714.8031	
	PRC	23+73.66	504775.7692	1290721.9977	S 65°04'23.74" E
	PI	23+89.81	504768.9628	1290736.6429	
	PRC	24+05.22	504755.7247	1290745.8930	S 34°56'37.72" E
	PI	24+13.15	504749.2214	1290750.4371	
	PT	24+20.99	504744.1227	1290756.5154	S 50°00'30.73" E
	PC	25+47.92	504662.5518	1290853.7572	
	PI	25+65.11	504651.5039	1290866.9276	
	PRC	25+81.96	504645.4883	1290883.0314	S 69°31'00.94" E
	PI	25+95.72	504640.6759	1290895.9145	
	PT	26+09.20	504631.8375	1290906.4509	
	PI	27+59.16	504535.4668	1291021.3357	S 46°08'35.75" E

BASELINE CONTROL COORDINATES					
BASELINE	POINT NO.	STATION	NORTH	EAST	BEARING
SUP - EAST	PC	27+68.13	504529.2521	1291027.8035	S 46°08'35.75" E
	PI	27+71.58	504526.8605	1291030.2925	
	PT	27+74.77	504523.4427	1291030.7762	S 8°03'18.84" E
	POE	27+82.11	504516.1778	1291031.8044	

CURVE DATA						
CURVE	DELTA	Dc	RADIUS	TANGENT	LENGTH	EXTERNAL
C-S1	54°41'36.26" LT.	179°02'57.52"	32.00'	16.55'	30.55'	4.03'
C-S2	15°44'25.97" LT.	71°37'11.01"	80.00'	11.06'	21.98'	0.76'
C-S3	15°44'25.97" RT.	71°37'11.01"	80.00'	11.06'	21.98'	0.76'
C-S4	15°03'53.01" LT.	95°29'34.68"	60.00'	7.93'	15.78'	0.52'
C-S5	30°07'46.02" RT.	95°29'34.68"	60.00'	16.15'	31.55'	2.14'
C-S6	15°03'53.01" LT.	95°29'34.68"	60.00'	7.93'	15.78'	0.52'
C-S7	19°30'30.21" LT.	57°17'44.81"	100.00'	17.19'	34.05'	1.47'
C-S8	19°30'30.21" RT.	71°37'11.01"	80.00'	13.75'	27.24'	1.17'
C-S9	38°05'16.92" RT.	572°57'28.06"	10.00'	3.45'	6.65'	0.58'

DWG. GS-03

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MD 586/VEIRS MILL BIKE AND PEDESTRIAN  
PRIORITY AREA - CENTRAL SECTOR

GEOMETRY SHEET

SCALE 1" = 100' DATE JUNE 2022

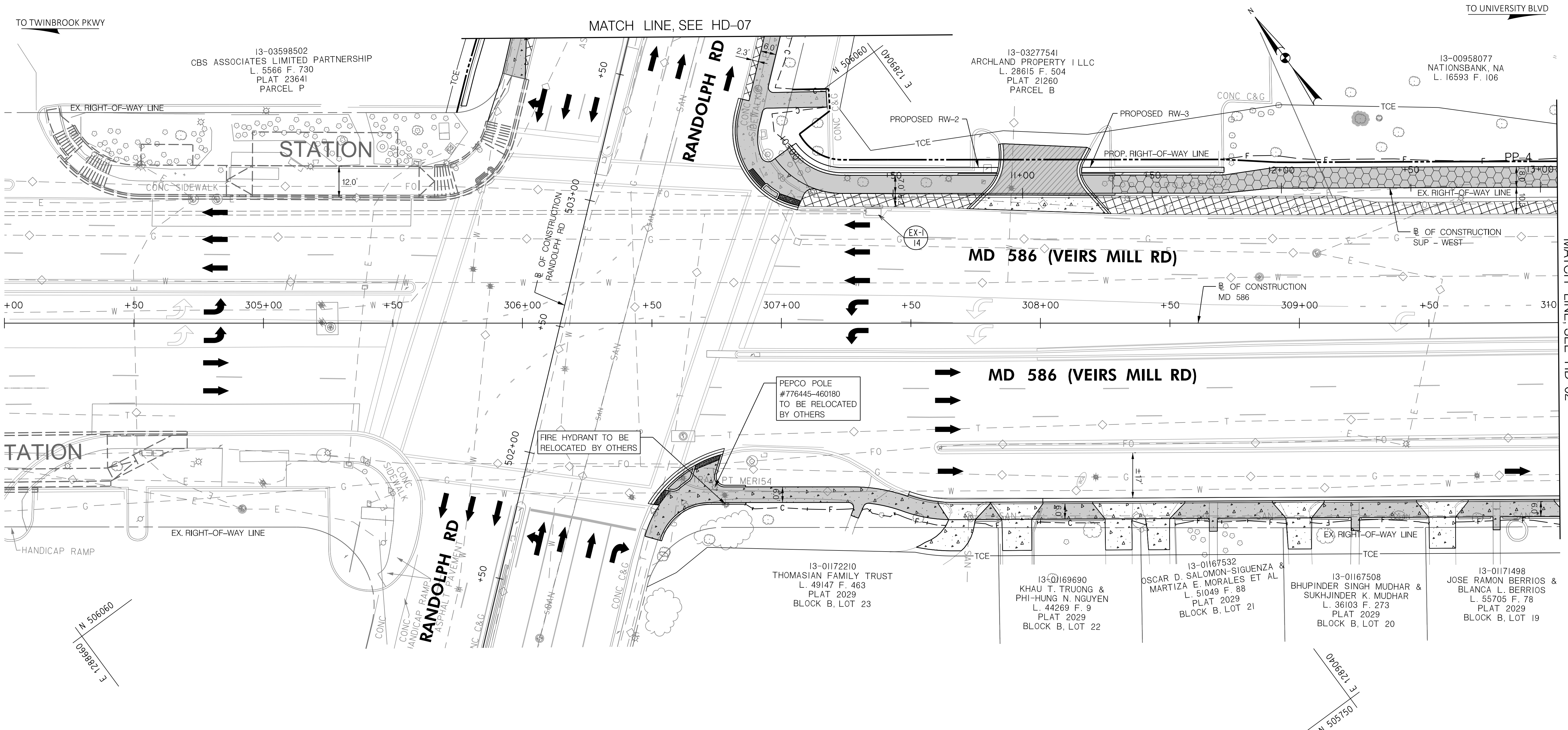
CONTRACT NO. 502003 SHEET NO. 9 OF 46

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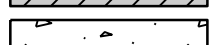


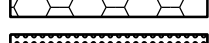


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-  CONCRETE SIDEWALK
-  ASPHALT DRIVEWAY
-  CONCRETE DRIVEWAY
-  PERVIOUS ASPHALT SHARED USE PATH
-  PERVIOUS CONCRETE SIDEWALK
-  DETECTABLE WARNING SURFACE
-  PROPOSED BRT IMPROVEMENTS
-  IMPROVEMENTS BY OTHERS



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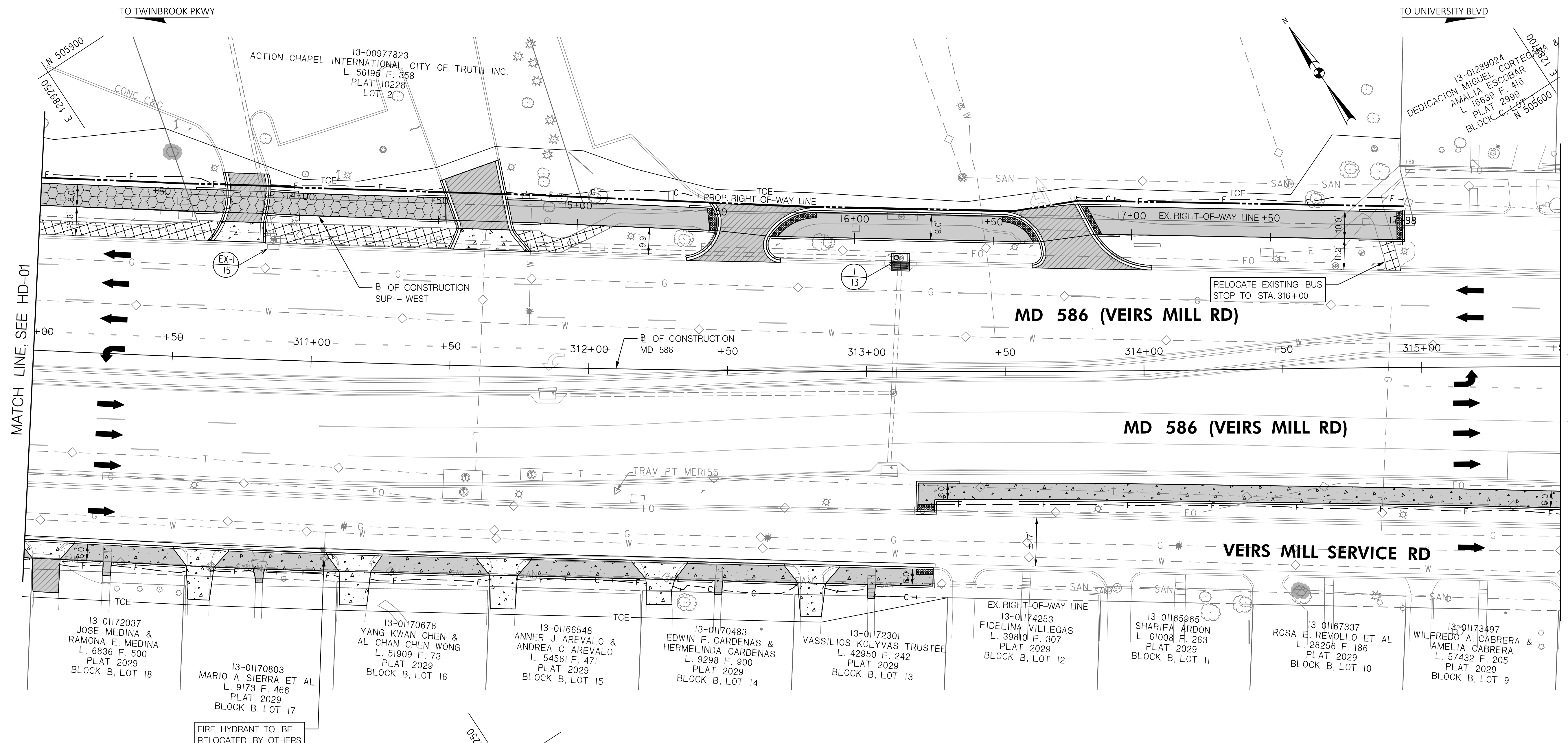
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**MD 586/VEIRS MILL BIKE AND PEDESTRIAN  
 PRIORITY AREA – CENTRAL SECTOR  
 ROADWAY PLAN**

SCALE 1"=20' DATE JUNE 2022

CONTRACT NO. 502003 SHEET NO. 10 OF 46

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MATCH LINE, SEE HD-01

MATCH LINE, SEE HD-03

**LEGEND**

- ASPHALT SHARED USE PATH
- CONCRETE SIDEWALK
- ASPHALT DRIVEWAY
- CONCRETE DRIVEWAY
- PERVIOUS ASPHALT SHARED USE PATH
- PERVIOUS CONCRETE SIDEWALK
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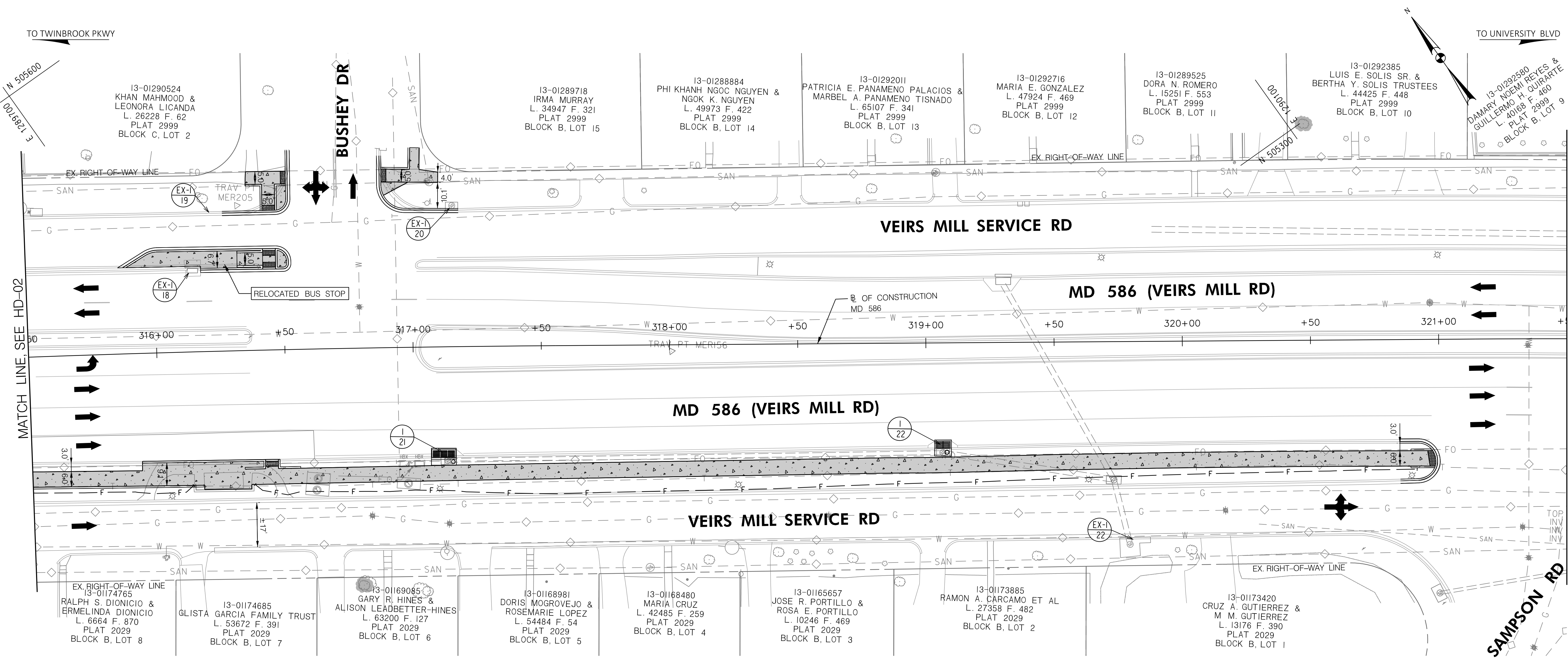
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 PRIORITY AREA - CENTRAL SECTOR  
 ROADWAY PLAN**

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- CONCRETE SIDEWALK
- ASPHALT DRIVEWAY
- CONCRETE DRIVEWAY
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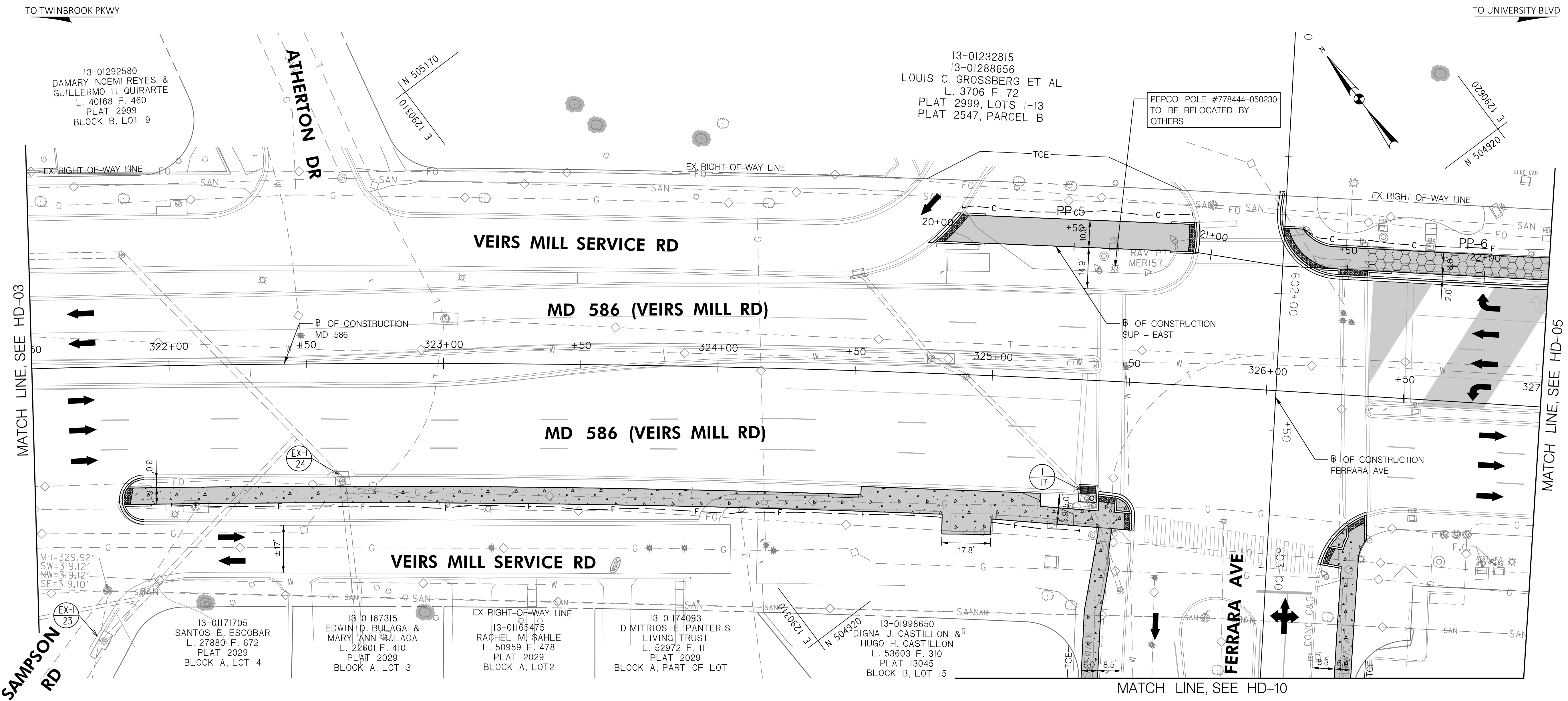
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**MD 586/VEIRS MILL BIKE AND PEDESTRIAN  
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 ROADWAY PLAN**

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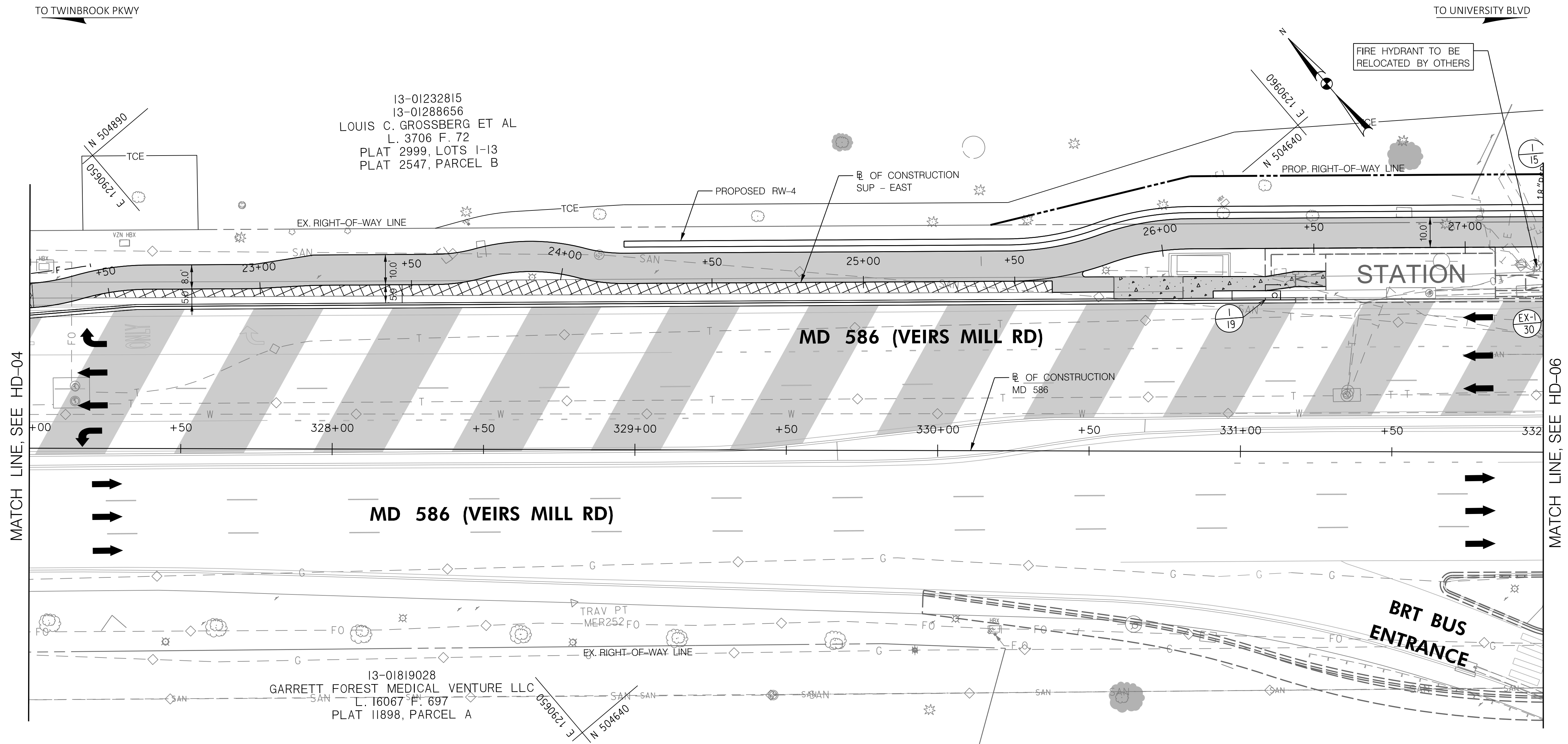
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CONTRACT NO. 502003 SHEET NO. 13 OF 46



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- CONCRETE SIDEWALK
- ASPHALT DRIVEWAY
- CONCRETE DRIVEWAY
- PERVIOUS ASPHALT SHARED USE PATH
- PERVIOUS CONCRETE SIDEWALK
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DWG. HD-05

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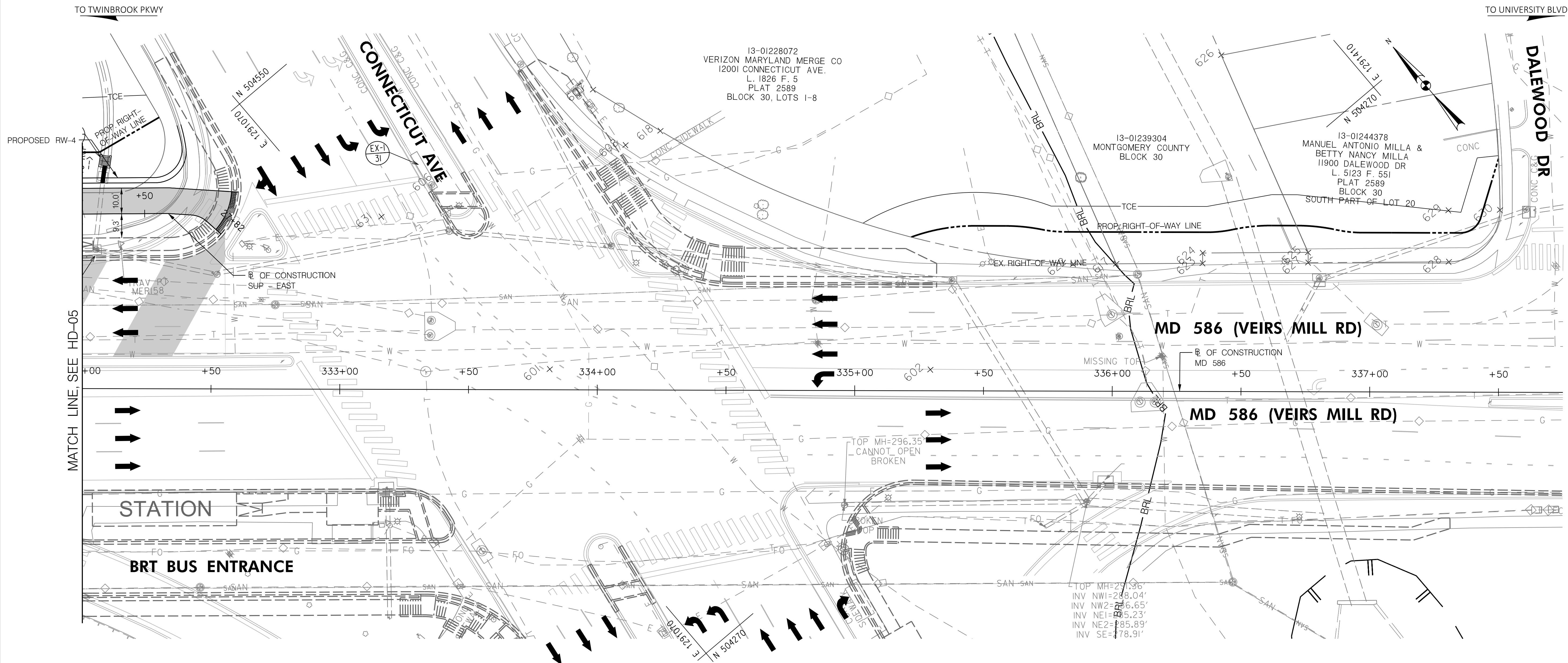
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**MD 586/VEIRS MILL BIKE AND PEDESTRIAN  
PRIORITY AREA – CENTRAL SECTOR  
ROADWAY PLAN**

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CONTRACT NO. 502003 SHEET NO. 14 OF 46

PLOTTER: 6/25/2022  
 FILE: \\rkk.com\Users\jps\Projects\2020\0507\_MCDOTTemp\Task\_12 - Veirs Mill BRTA - CentralSector\CADD\Plan\HD-05\_VeirsMill-Central.dgn



MATCH LINE, SEE HD-05

**LEGEND**

- ASPHALT SHARED USE PATH
- CONCRETE SIDEWALK
- ASPHALT DRIVEWAY
- CONCRETE DRIVEWAY
- PERVIOUS ASPHALT SHARED USE PATH
- PERVIOUS CONCRETE SIDEWALK
- DETECTABLE WARNING SURFACE
- PROPOSED BRT IMPROVEMENTS
- IMPROVEMENTS BY OTHERS



DWG. HD-06

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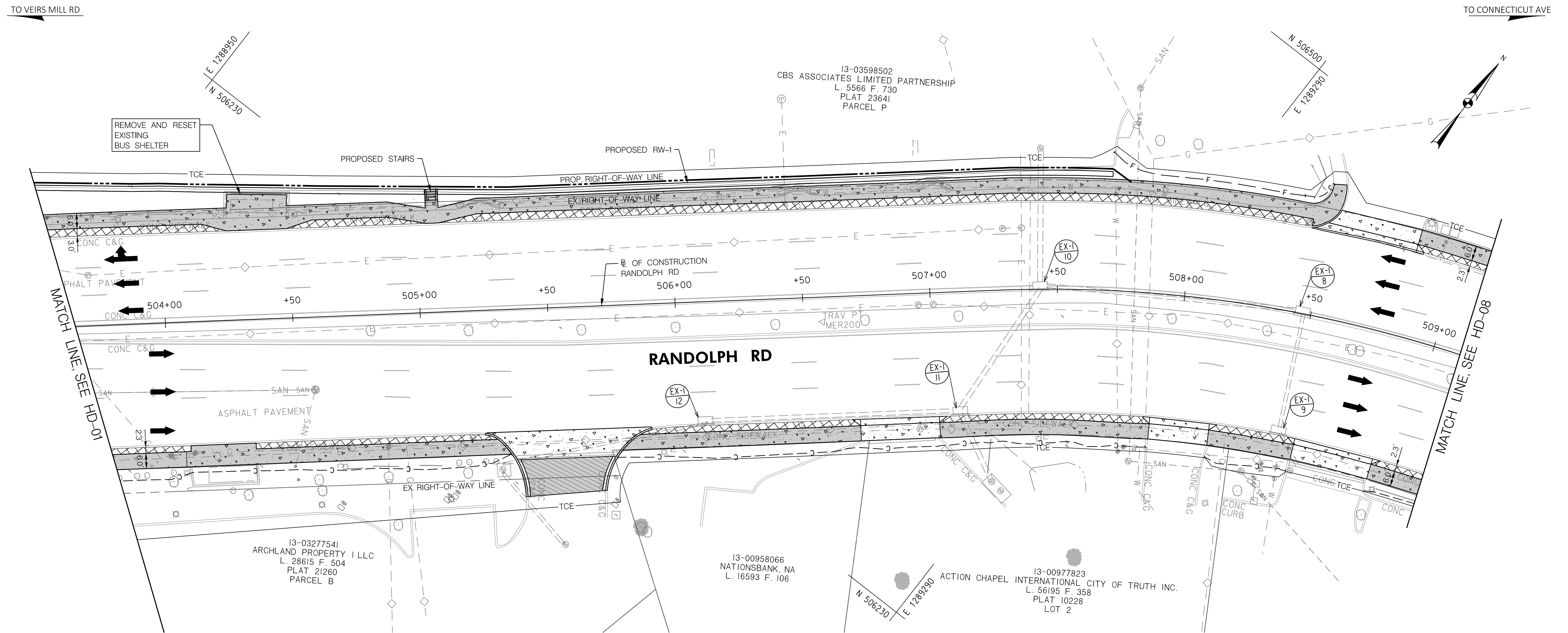
MONTGOMERY COUNTY  
 DEPARTMENT OF TRANSPORTATION  
 DIVISION OF TRANSPORTATION ENGINEERING

**MD 586/VEIRS MILL BIKE AND PEDESTRIAN  
 PRIORITY AREA - CENTRAL SECTOR  
 ROADWAY PLAN**

SCALE 1"=20' DATE JUNE 2022

CONTRACT NO. 502003 SHEET NO. 15 OF 46

PLOTTER: 6/26/2022  
 FILE: \\rkk.com\Users\jps\Projects\2020\0097\_MCDOTTemp\Task\_12 - Veirs Mill BiPPA - CentralSector\CAD\Plan\HD-06\_VeirsMill-Central.dgn



REMOVE AND RESET  
EXISTING  
BUS SHELTER

PROPOSED STAIRS

PROPOSED RW-1

PROP RIGHT-OF-WAY LINE

EX. RIGHT-OF-WAY LINE


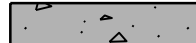

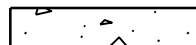
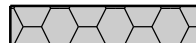
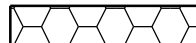



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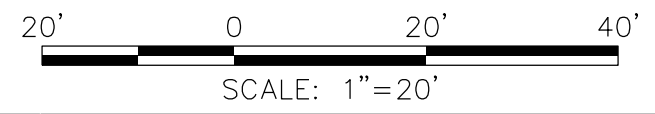
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L. 28615 F. 504  
PLAT 21260  
PARCEL B

13-00958066  
NATIONSBANK, NA  
L. 16593 F. 106

13-00977823  
ACTION CHAPEL INTERNATIONAL CITY OF TRUTH INC.  
L. 56195 F. 358  
PLAT 10228  
LOT 2

**LEGEND**

-  ASPHALT SHARED USE PATH
-  CONCRETE SIDEWALK
-  ASPHALT DRIVEWAY
-  CONCRETE DRIVEWAY
-  PERVIOUS ASPHALT SHARED USE PATH
-  PERVIOUS CONCRETE SIDEWALK
-  DETECTABLE WARNING SURFACE
-  PROPOSED BRT IMPROVEMENTS
-  IMPROVEMENTS BY OTHERS



DWG. HD-07

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MD 586/VEIRS MILL BIKE AND PEDESTRIAN  
PRIORITY AREA - CENTRAL SECTOR  
ROADWAY PLAN

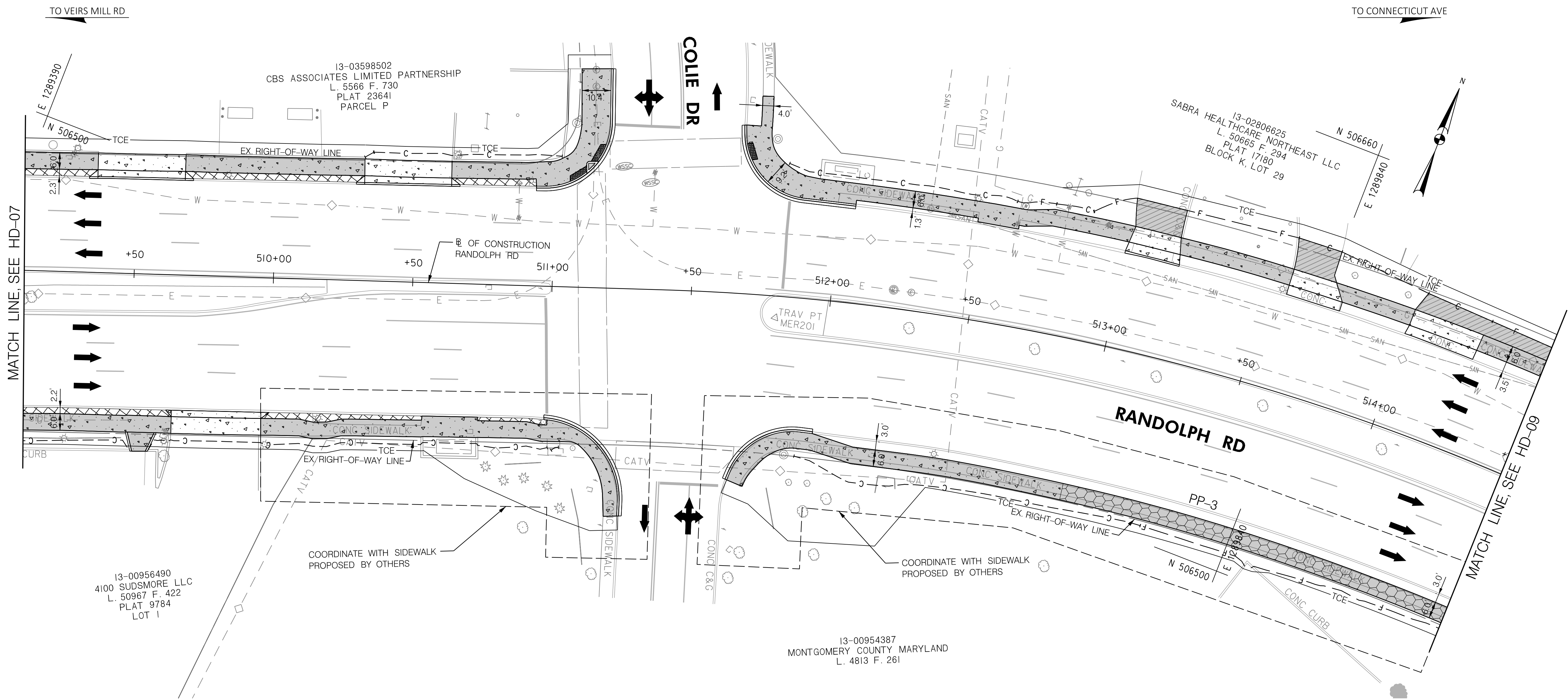
SCALE 1"=20' DATE JUNE 2022

CONTRACT NO. 502003 SHEET NO. 16 OF 46



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MATCH LINE, SEE HD-07

MATCH LINE, SEE HD-09

**LEGEND**

- ASPHALT SHARED USE PATH
- CONCRETE SIDEWALK
- ASPHALT DRIVEWAY
- CONCRETE DRIVEWAY
- PERVIOUS ASPHALT SHARED USE PATH
- PERVIOUS CONCRETE SIDEWALK
- DETECTABLE WARNING SURFACE
- PROPOSED BRT IMPROVEMENTS
- IMPROVEMENTS BY OTHERS



DWG. HD-08

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**MD 586/VEIRS MILL BIKE AND PEDESTRIAN  
 PRIORITY AREA – CENTRAL SECTOR  
 ROADWAY PLAN**

SCALE 1"=20' DATE JUNE 2022

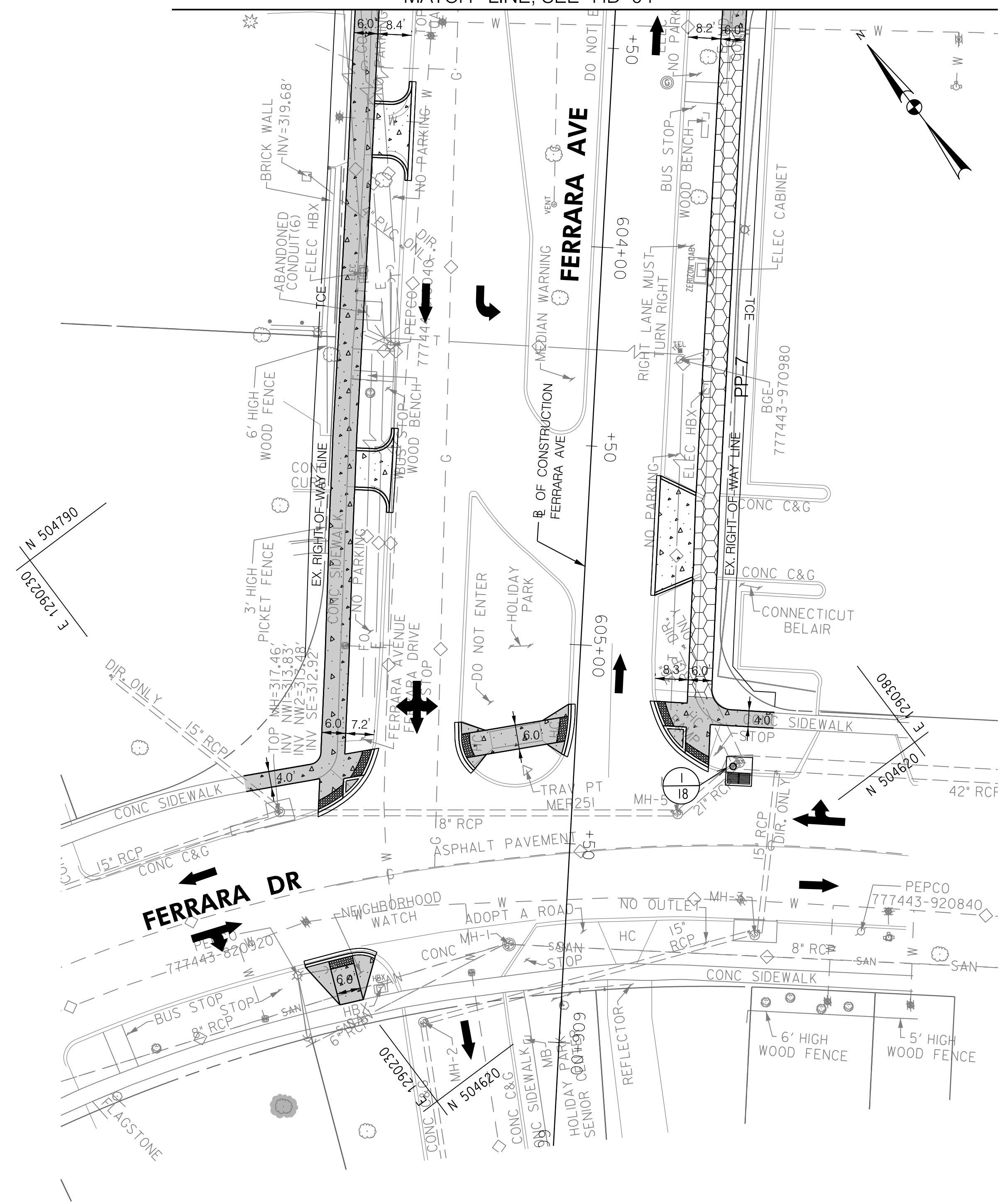
CONTRACT NO. 502003 SHEET NO. 17 OF 46

PLOTTER: 6/25/2022  
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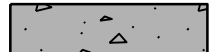

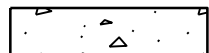

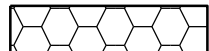







TO TWINBROOK PKWY MATCH LINE, SEE HD-04 TO UNIVERSITY BLVD



**LEGEND**

-  ASPHALT SHARED USE PATH
-  CONCRETE SIDEWALK
-  ASPHALT DRIVEWAY
-  CONCRETE DRIVEWAY
-  PERVIOUS ASPHALT SHARED USE PATH
-  PERVIOUS CONCRETE SIDEWALK
-  DETECTABLE WARNING SURFACE
-  PROPOSED BRT IMPROVEMENTS
-  IMPROVEMENTS BY OTHERS



DWG. HD-10

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MD 586/VEIRS MILL BIKE AND PEDESTRIAN  
 PRIORITY AREA - CENTRAL SECTOR  
 ROADWAY PLAN

SCALE 1"=20' DATE JUNE 2022

CONTRACT NO. 502003 SHEET NO. 19 OF 46



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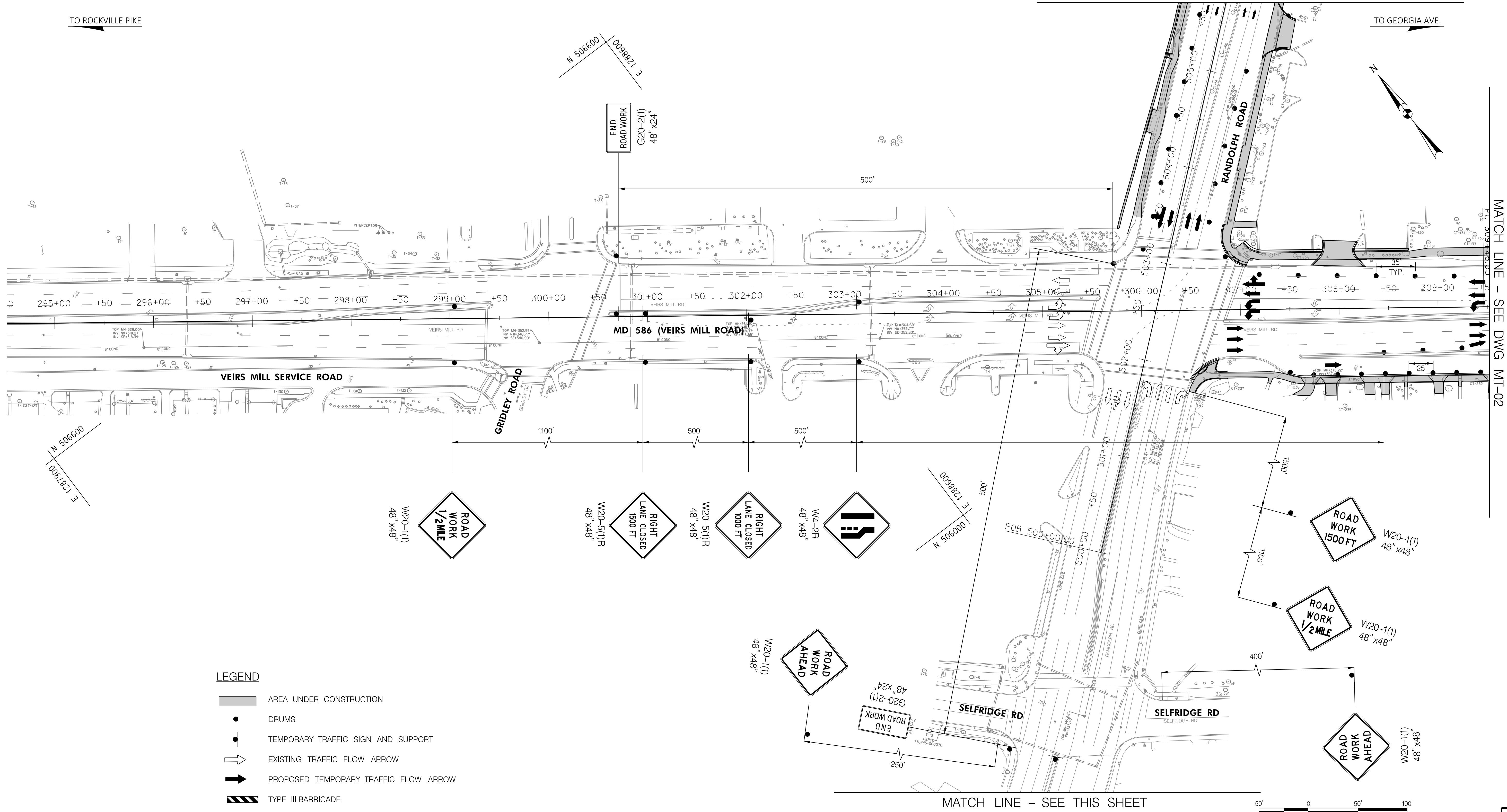
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MATCH LINE - SEE DWG MT-05

TO ROCKVILLE PIKE

TO GEORGIA AVE.



MATCH LINE - SEE DWG MT-02

**LEGEND**

- AREA UNDER CONSTRUCTION
- DRUMS
- TEMPORARY TRAFFIC SIGN AND SUPPORT
- EXISTING TRAFFIC FLOW ARROW
- PROPOSED TEMPORARY TRAFFIC FLOW ARROW
- TYPE III BARRICADE
- PROPOSED TEMPORARY SIGN
- EXISTING SIGN TO REMAIN
- EXISTING SIGN TO BE REMOVED OR COVERED

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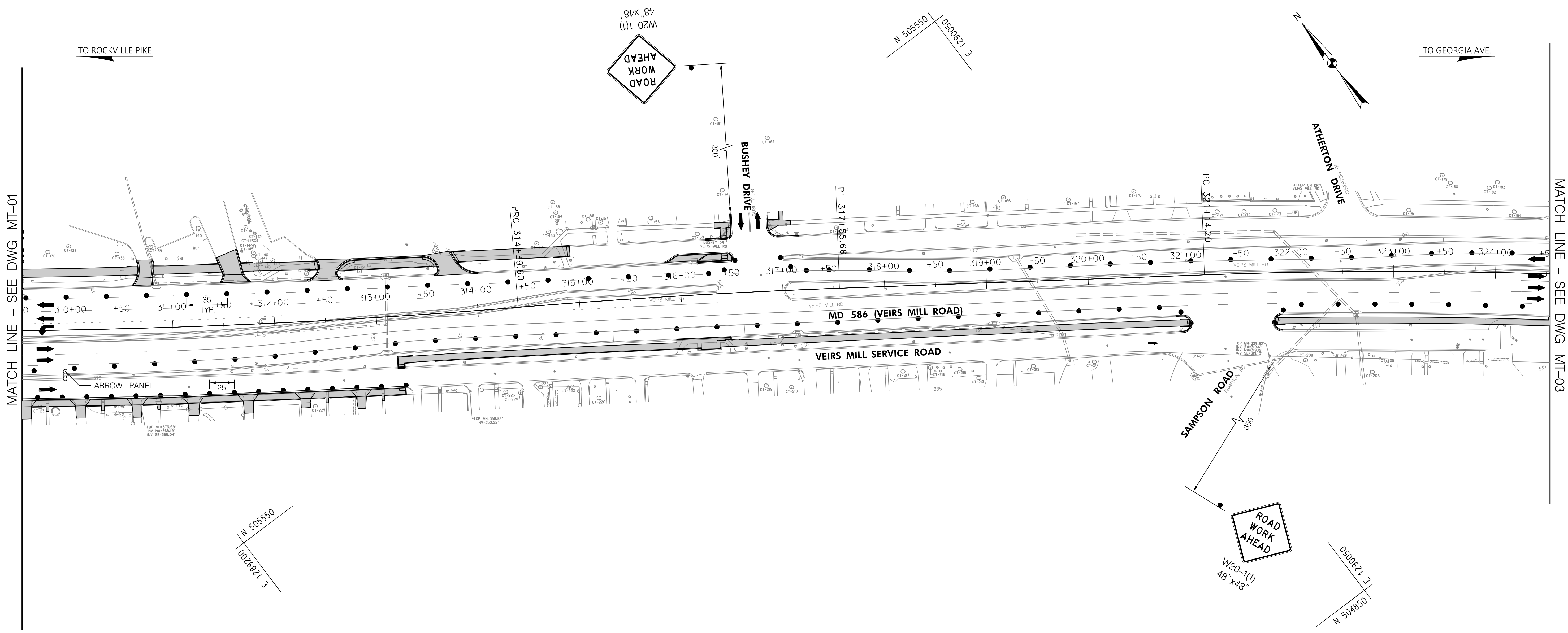
MONTGOMERY COUNTY  
 DEPARTMENT OF TRANSPORTATION  
 DIVISION OF TRANSPORTATION ENGINEERING  
**MD 586/VEIRS MILL ROAD BIKE AND  
 PEDESTRIAN PRIORITY AREA -  
 CENTRAL SECTOR  
 TRAFFIC CONTROL PLAN**

SCALE 1"=50' DATE JUNE 2022

CONTRACT NO. 502003 SHEET NO. 21 OF 46

DWG. MT-02




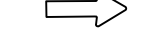




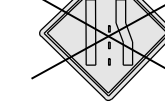
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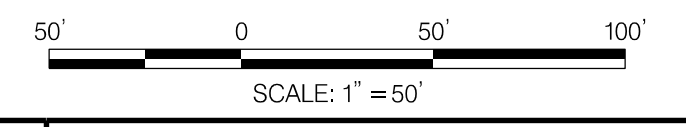


MATCH LINE - SEE DWG MT-01

MATCH LINE - SEE DWG MT-03

**LEGEND**

-  AREA UNDER CONSTRUCTION
-  DRUMS
-  TEMPORARY TRAFFIC SIGN AND SUPPORT
-  EXISTING TRAFFIC FLOW ARROW
-  PROPOSED TEMPORARY TRAFFIC FLOW ARROW
-  TYPE III BARRICADE
-  PROPOSED TEMPORARY SIGN
-  EXISTING SIGN TO REMAIN
-  EXISTING SIGN TO BE REMOVED OR COVERED



DWG. MT-03

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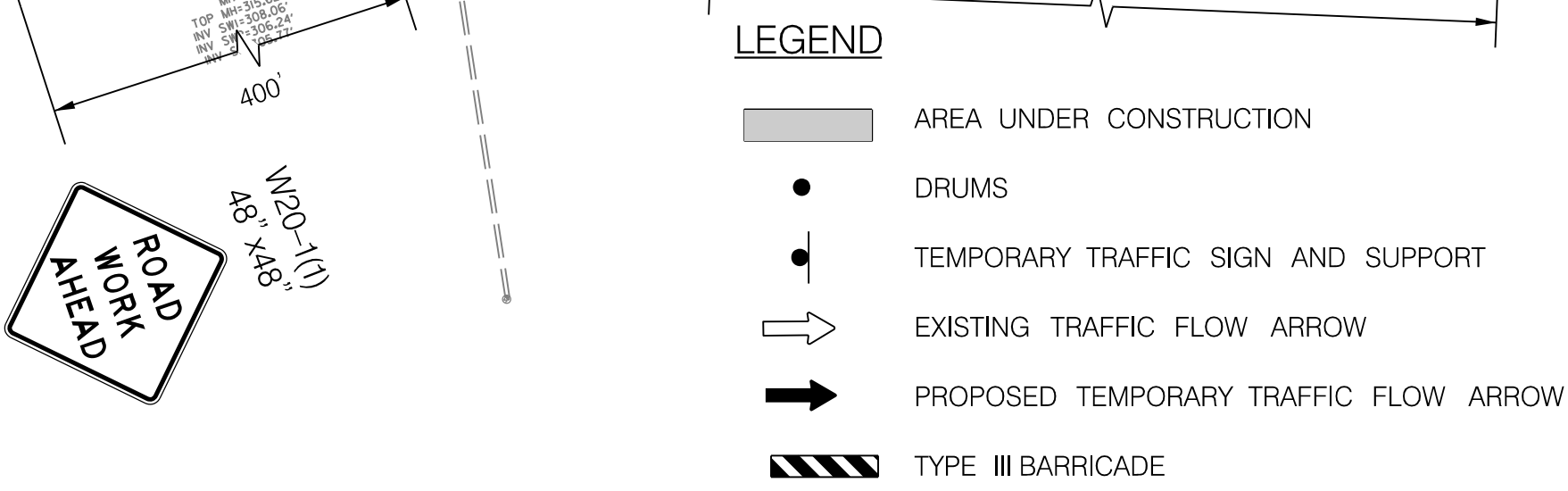
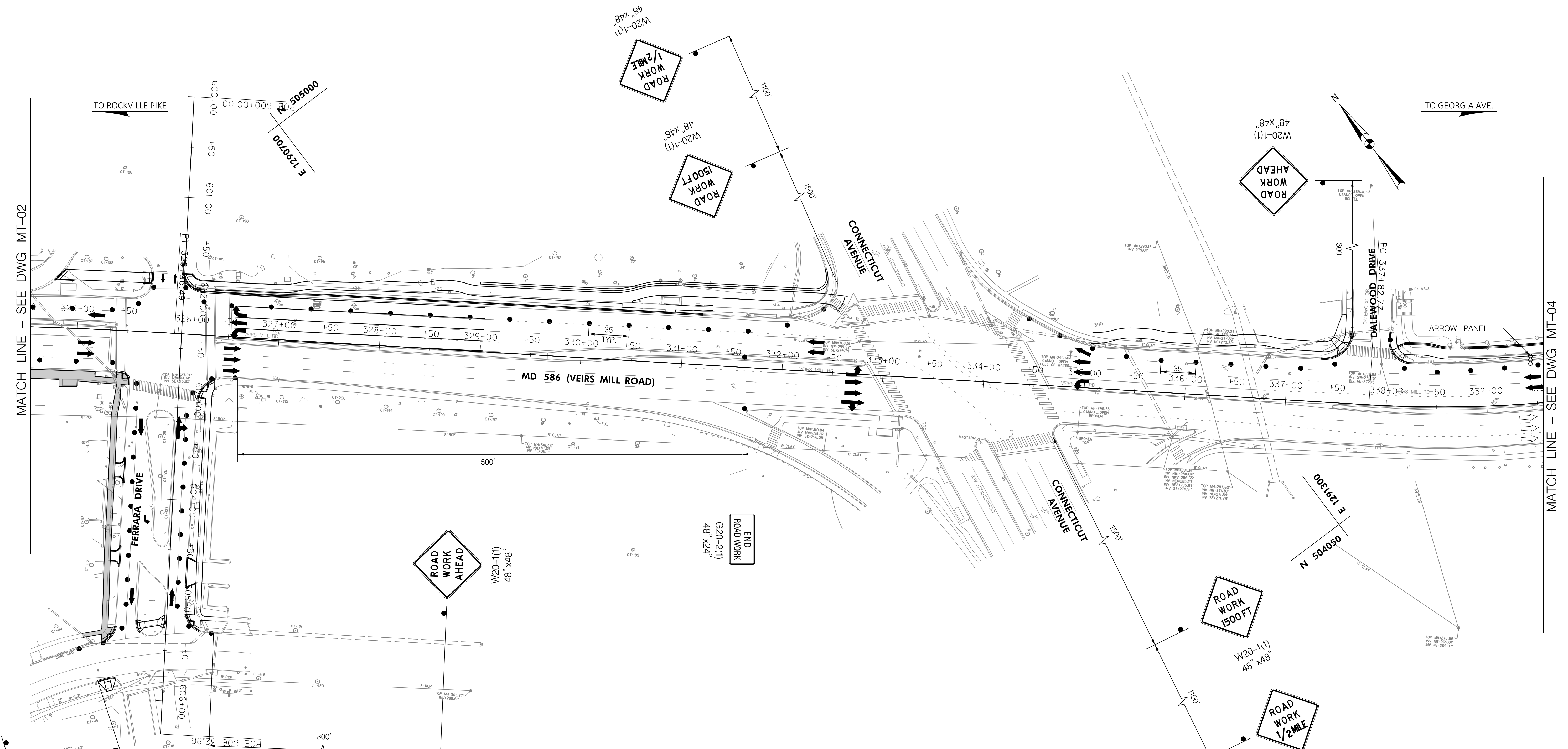
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 MD 586/VEIRS MILL ROAD BIKE AND  
 PEDESTRIAN PRIORITY AREA -  
 CENTRAL SECTOR  
 TRAFFIC CONTROL PLAN

SCALE 1"=50' DATE JUNE 2022

CONTRACT NO. 502003 SHEET NO. 22 OF 46

PLOTTER: 6/26/2022  
 FILE: \\vkkccom\1\A\Chen\Projects\2020\0907\_MCDOT\Temp\Task\_12 - Veirs Mill BiPPA - CentralSector\CADD\Plans\MT-02\_VeirsMill-Central.dgn



- LEGEND**
- AREA UNDER CONSTRUCTION
  - DRUMS
  - TEMPORARY TRAFFIC SIGN AND SUPPORT
  - EXISTING TRAFFIC FLOW ARROW
  - PROPOSED TEMPORARY TRAFFIC FLOW ARROW
  - TYPE III BARRICADE
  - PROPOSED TEMPORARY SIGN
  - EXISTING SIGN TO REMAIN
  - EXISTING SIGN TO BE REMOVED OR COVERED

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 MD 586/VEIRS MILL ROAD BIKE AND  
 PEDESTRIAN PRIORITY AREA -  
 CENTRAL SECTOR  
 TRAFFIC CONTROL PLAN

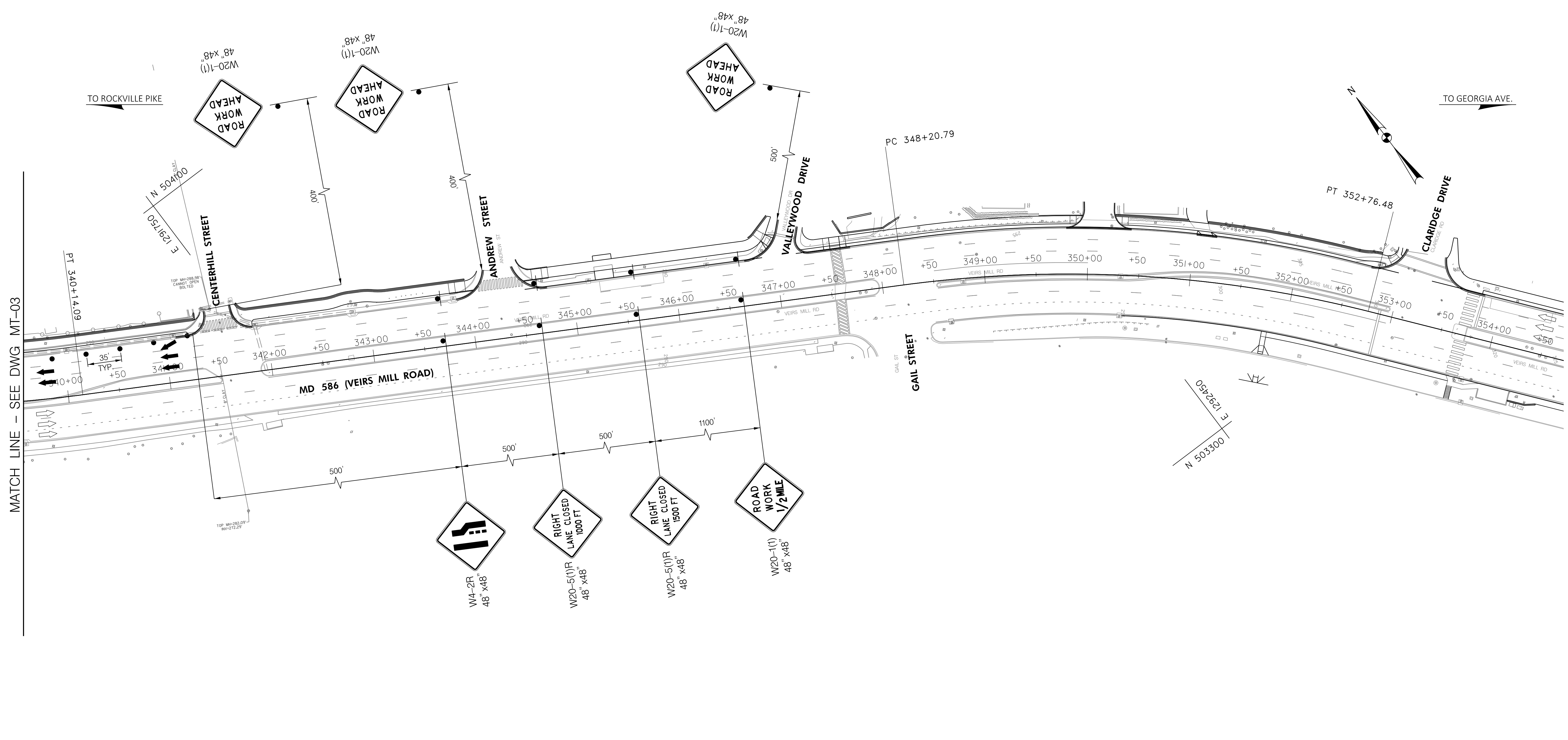
SCALE 1"=50' DATE JUNE 2022

CONTRACT NO. 502003 SHEET NO. 23 OF 46




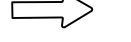





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 PLOT DATE: 6/23/2022  
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MATCH LINE - SEE DWG MT-03



**LEGEND**

-  AREA UNDER CONSTRUCTION
-  DRUMS
-  TEMPORARY TRAFFIC SIGN AND SUPPORT
-  EXISTING TRAFFIC FLOW ARROW
-  PROPOSED TEMPORARY TRAFFIC FLOW ARROW
-  TYPE III BARRICADE
-  PROPOSED TEMPORARY SIGN
-  EXISTING SIGN TO REMAIN
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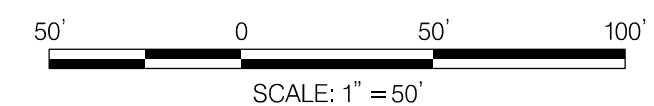
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**MD 586/VEIRS MILL ROAD BIKE AND  
 PEDESTRIAN PRIORITY AREA -  
 CENTRAL SECTOR  
 TRAFFIC CONTROL PLAN**

SCALE 1"=50' DATE JUNE 2022

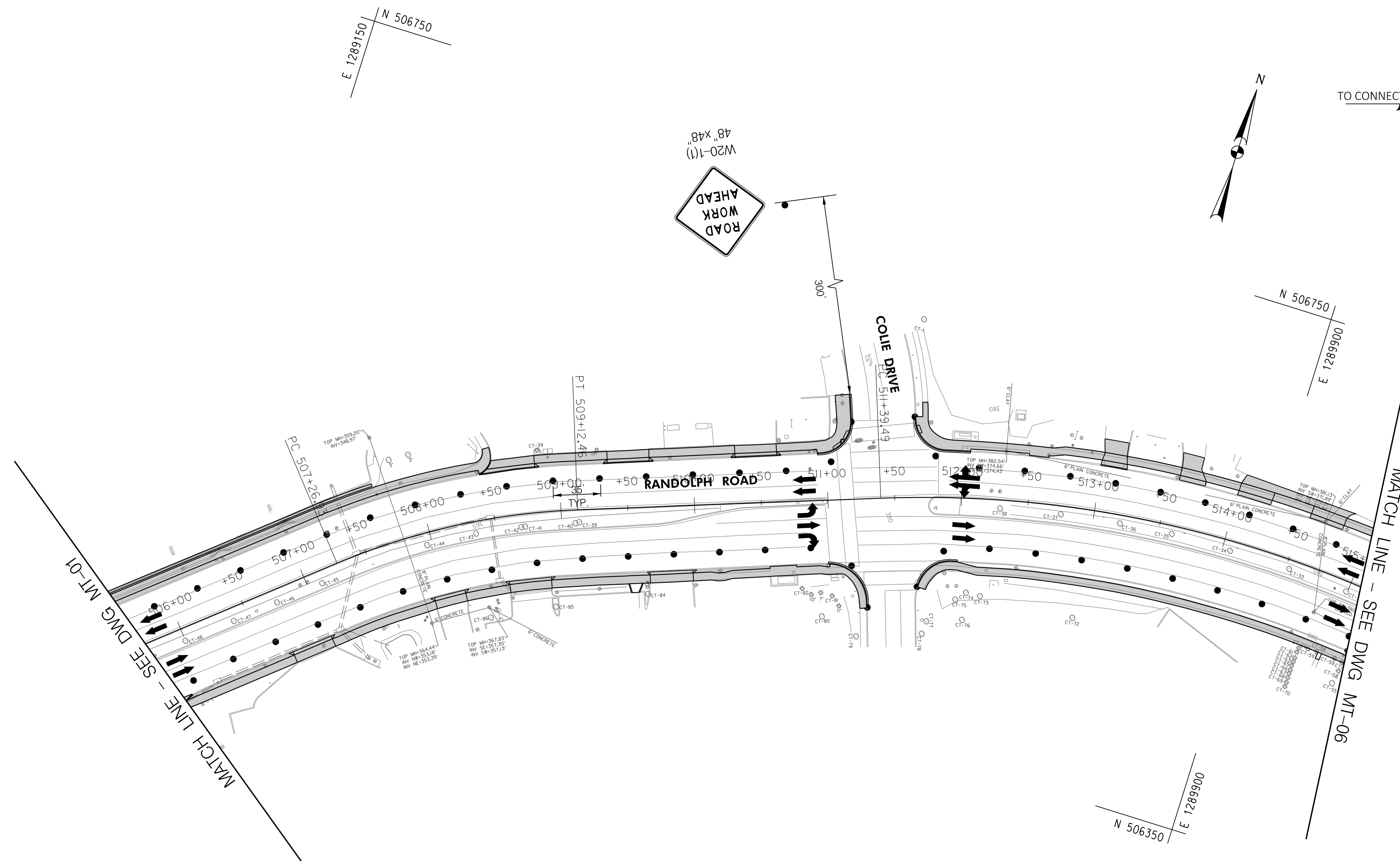
CONTRACT NO. 502003 SHEET NO. 24 OF 46



DWG. MT-05

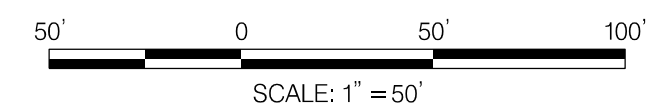
TO VEIRS MILL RD.

TO CONNECTICUT AVE.



**LEGEND**

- AREA UNDER CONSTRUCTION
- DRUMS
- TEMPORARY TRAFFIC SIGN AND SUPPORT
- EXISTING TRAFFIC FLOW ARROW
- PROPOSED TEMPORARY TRAFFIC FLOW ARROW
- TYPE III BARRICADE
- PROPOSED TEMPORARY SIGN
- EXISTING SIGN TO REMAIN
- EXISTING SIGN TO BE REMOVED OR COVERED



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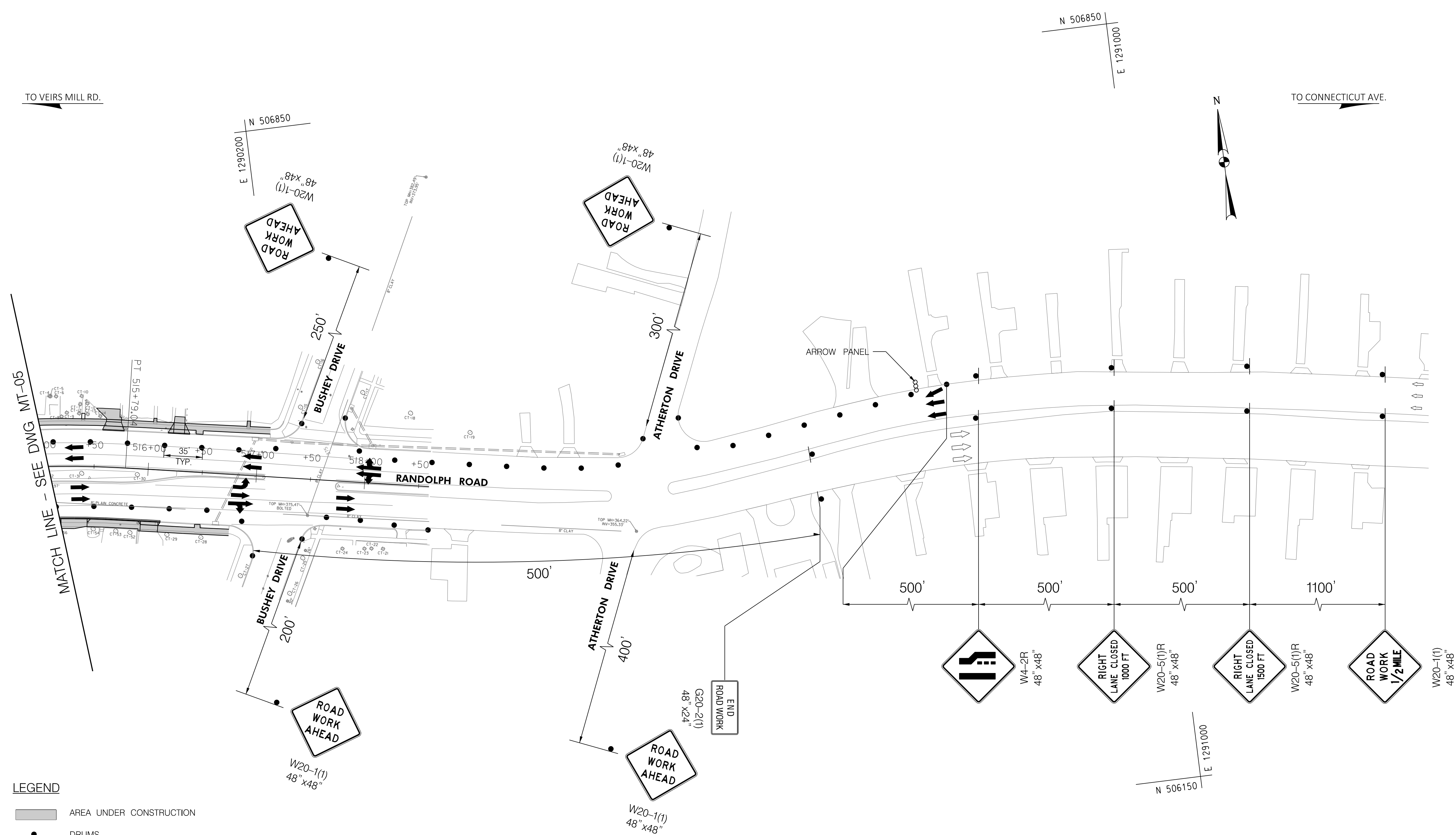
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 TRAFFIC CONTROL PLAN

SCALE 1"=50' DATE JUNE 2022

CONTRACT NO. 502003 SHEET NO. 25 OF 46

PLOTTER: 6/26/2022  
 FILE: \\vkk\kcc\m\16\Chen\Projects\2020\0907\_MCOOT\Temp\Task\_12 - Veirs Mill BiPPA - CentralSector\CAD\Plan\MT-06\_Veirs Mill-Central.dgn





- LEGEND**
- AREA UNDER CONSTRUCTION
  - DRUMS
  - TEMPORARY TRAFFIC SIGN AND SUPPORT
  - EXISTING TRAFFIC FLOW ARROW
  - PROPOSED TEMPORARY TRAFFIC FLOW ARROW
  - TYPE III BARRICADE
  - PROPOSED TEMPORARY SIGN
  - EXISTING SIGN TO REMAIN
  - EXISTING SIGN TO BE REMOVED OR COVERED

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 ENGINEERING  
 240-777-7220  
 DESIGN SECTION  
 240-777-7221

NO.	REVISION	DATE	BY

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 Chief, Transportation Planning and Design Section

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 Chief, Division of Transportation Engineering

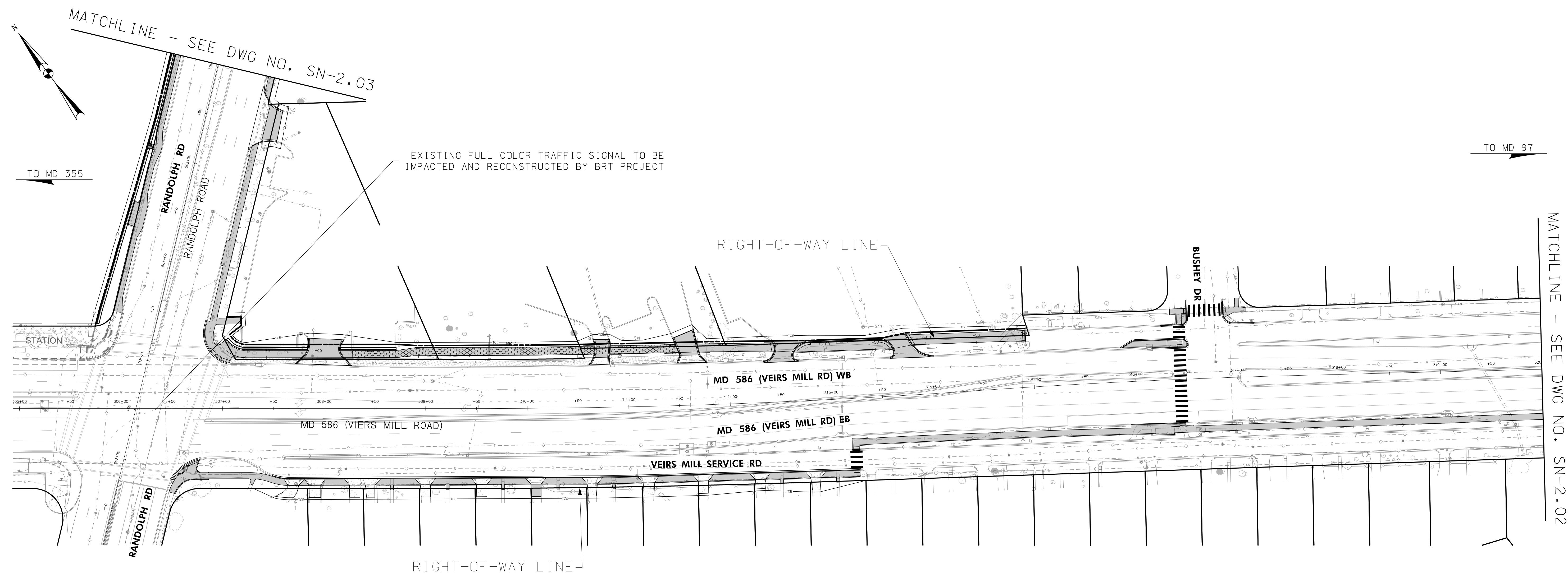
DESIGNED BY JPS DRAWN BY DEA CHECKED BY CJB

MONTGOMERY COUNTY  
 DEPARTMENT OF TRANSPORTATION  
 DIVISION OF TRANSPORTATION ENGINEERING  
 MD 586/VEIRS MILL ROAD BIKE AND  
 PEDESTRIAN PRIORITY AREA -  
 CENTRAL SECTOR  
 TRAFFIC CONTROL PLAN

SCALE 1"=50' DATE JUNE 2022

CONTRACT NO. 502003 SHEET NO. 26 OF 46

PLOTTER: 6/26/2022  
 FILE: \\rkk.com\Users\jps\Projects\2020\0507\_MCDOTTemp\Task\_12 - Veirs Mill BiPPA - CentralSector\CAAD\Plan\MT-07\_VeirsMill-Central.dgn



**PAVEMENT MARKING LEGEND**

- A. 5 IN. SOLID WHITE THERMOPLASTIC PAVEMENT MARKING LINE
- B. 5 IN. SOLID YELLOW THERMOPLASTIC PAVEMENT MARKING LINE
- C. 5 IN. SKIP WHITE THERMOPLASTIC PAVEMENT MARKING LINE (10 FT. LINE, 30 FT. GAP)
- D. 5 IN. SKIP WHITE THERMOPLASTIC PAVEMENT MARKING LINE (3 FT. LINE, 9 FT. GAP)
- E. 24 IN. SOLID WHITE PERMANENT PREFORMED PAVEMENT MARKING LINE
- F. WHITE PREFORMED THERMOPLASTIC PAVEMENT MARKING ARROW/SYMBOL
- G. REMOVE EXISTING PAVEMENT MARKING LINE, ANY WIDTH (BY HYDROBLASTING)

**LEGEND**

- EXISTING SIGN TO REMAIN
- EXISTING SIGN TO BE REMOVED
- PROPOSED SIGN
- EXISTING GROUND MOUNTED SIGN
- PROPOSED GROUND MOUNTED SIGN



OFFICE OF TRAFFIC & SAFETY  
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MD 586 (VEIRS MILL RD) BIKE AND PEDESTRIAN PRIORITY AREA - CENTRAL SECTOR

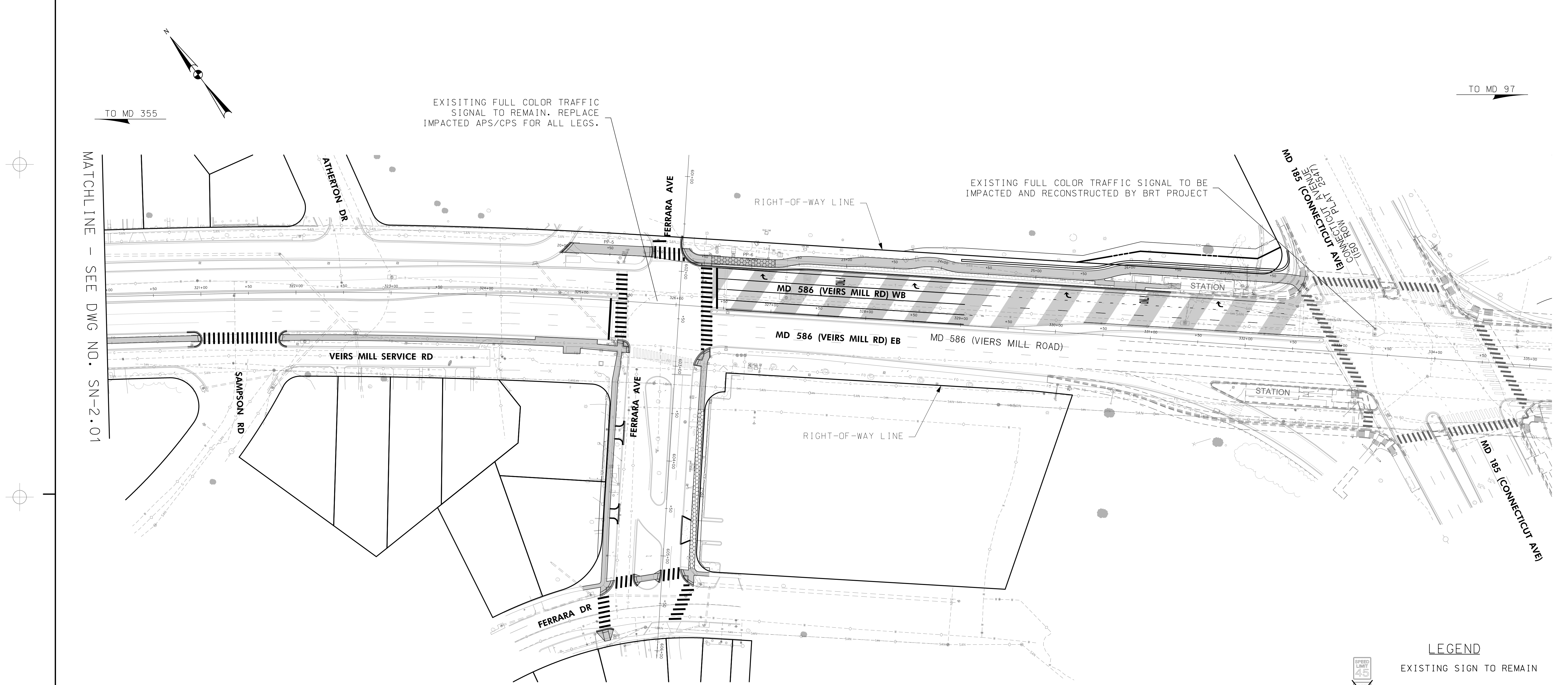
REVISIONS	SIGNING & PAVEMENT MARKING PLAN		
	SCALE 1" = 50'	DATE JUNE 2022	CONTRACT NO. 502003
	DESIGNED BY SJC	COUNTY MONTGOMERY	
	DRAWN BY SJC	LOGMILE	
	CHECKED BY WFW	TIMS NO.	
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	DRAWING NO. SN-2.01	OF 3	SHEET NO. 27 OF 46

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**PAVEMENT MARKING LEGEND**

- A. 5 IN. SOLID WHITE THERMOPLASTIC PAVEMENT MARKING LINE
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**LEGEND**

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- PROPOSED SIGN
- EXISTING GROUND MOUNTED SIGN
- PROPOSED GROUND MOUNTED SIGN



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MD 586 (VEIRS MILL RD) BIKE AND PEDESTRIAN PRIORITY AREA - CENTRAL SECTOR

REVISIONS	SIGNING & PAVEMENT MARKING PLAN		
	SCALE 1" = 50'	DATE JUNE 2022	CONTRACT NO. 502003
	DESIGNED BY SJC	COUNTY MONTGOMERY	
	DRAWN BY SJC	LOGMILE	
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EXISTING FULL COLOR TRAFFIC SIGNAL TO REMAIN.  
STRAIN POLES ARE NOT IMPACTED BY BIPPA. APS/CPS  
UPGRADES WILL BE PROPOSED BY DEVELOPER WORK.

TO MD 586

TO MD 185

MATCHLINE - SEE DWG NO. SN-2.01

RIGHT-OF-WAY LINE

RANDOLPH RD

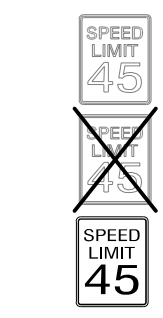
RIGHT-OF-WAY LINE

COLE DR

BUSHEY DR

BUSHEY DRIVE

**LEGEND**



- EXISTING SIGN TO REMAIN
- EXISTING SIGN TO BE REMOVED
- PROPOSED SIGN
- EXISTING GROUND MOUNTED SIGN
- PROPOSED GROUND MOUNTED SIGN

**PAVEMENT MARKING LEGEND**

- A. 5 IN. SOLID WHITE THERMOPLASTIC PAVEMENT MARKING LINE
- B. 5 IN. SOLID YELLOW THERMOPLASTIC PAVEMENT MARKING LINE
- C. 5 IN. SKIP WHITE THERMOPLASTIC PAVEMENT MARKING LINE (10 FT. LINE, 30 FT. GAP)
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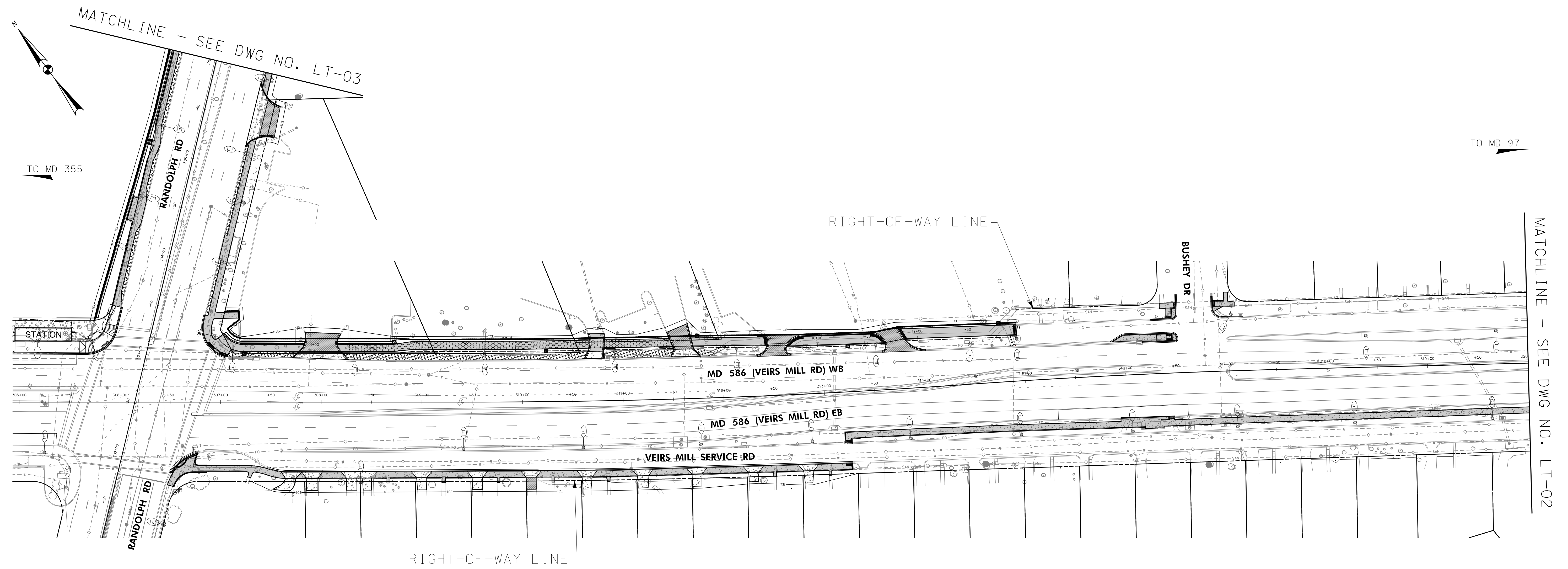


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MD 586 (VEIRS MILL RD) BIKE  
AND PEDESTRIAN PRIORITY  
AREA - CENTRAL SECTOR


REVISIONS	SIGNING & PAVEMENT MARKING PLAN		
	SCALE 1" = 50'	DATE JUNE 2022	CONTRACT NO. 502003
	DESIGNED BY SJC	COUNTY MONTGOMERY	
	DRAWN BY SJC	LOGMILE	
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	MDE/PRD SEE TITLE SHEET	TOD NO.	
	DRAWING NO. SN-2.03	OF 3	SHEET NO. 29 OF 46

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MARYLAND DEPARTMENT OF TRANSPORTATION  
STATE HIGHWAY ADMINISTRATION

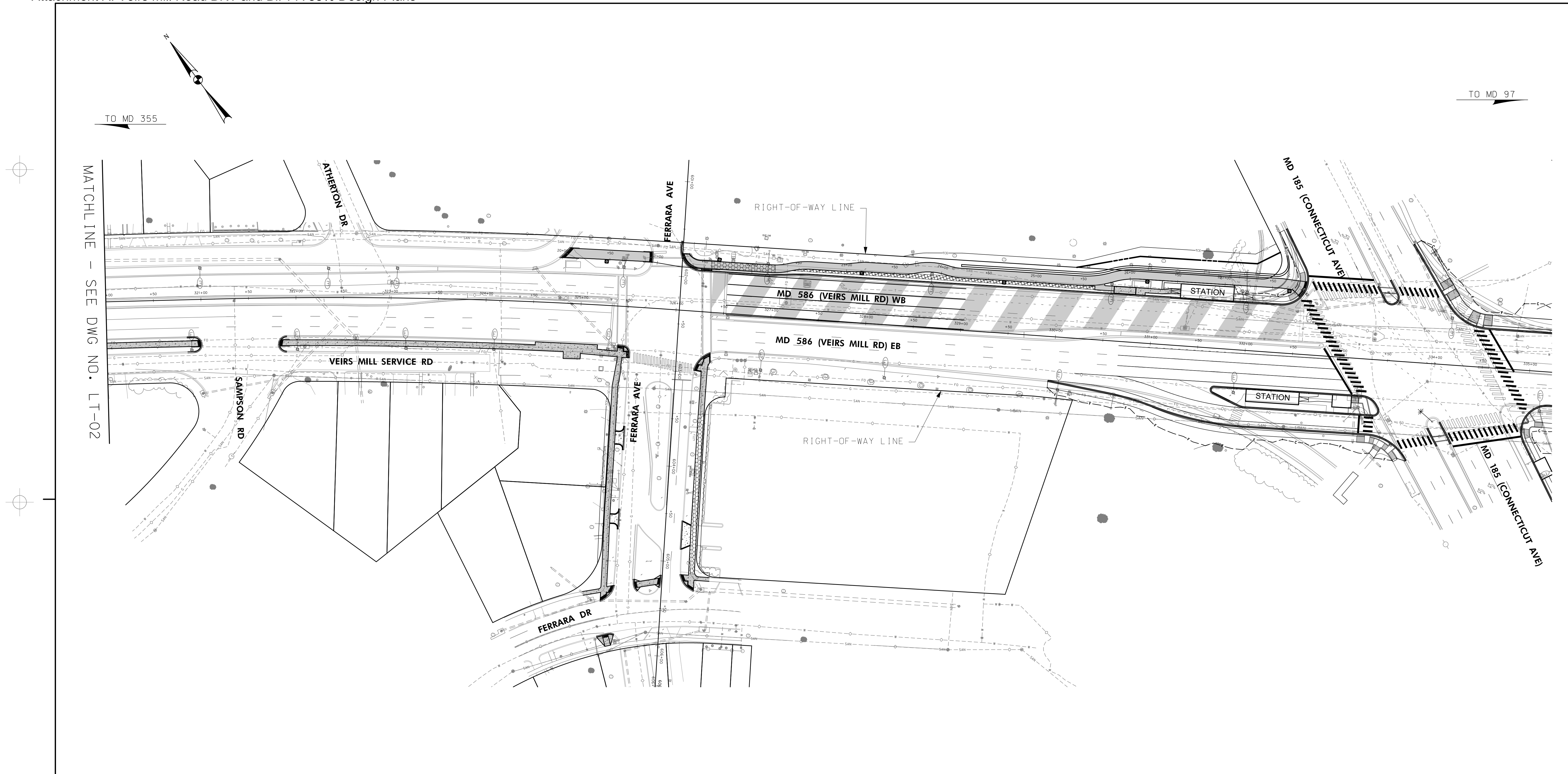
MD 586 (VEIRS MILL RD) BIKE AND PEDESTRIAN PRIORITY AREA - CENTRAL SECTOR

REVISIONS		LIGHTING PLAN	
SCALE 1" = 50'		DATE JUNE 2022	CONTRACT NO. 502003
DESIGNED BY SJC		COUNTY MONTGOMERY	
DRAWN BY SJC		LOGMILE	
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MDE/PRD SEE TITLE SHEET		TOD NO.	
DRAWING NO. LT-01	OF 03	SHEET NO. 30	OF 46

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MATCHLINE - SEE DWG NO. LT-02

TO MD 97



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MD 586 (VEIRS MILL RD) BIKE  
AND PEDESTRIAN PRIORITY  
AREA - CENTRAL SECTOR

REVISIONS		LIGHTING PLAN	
SCALE	1" = 50'	DATE	JUNE 2022
DESIGNED BY	SJC	COUNTY	MONTGOMERY
DRAWN BY	SJC	LOGMILE	
CHECKED BY	WFW	TIMS NO.	
MDE/PRD	SEE TITLE SHEET	TOD NO.	
DRAWING NO.	LT-02	OF	03
		SHEET NO.	31 OF 46

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TO MD 586

TO MD 185

RIGHT-OF-WAY LINE

RIGHT-OF-WAY LINE

MATCHLINE - SEE DWG NO. LT-01

COLE DR

RANDOLPH RD

BUSHEY DR



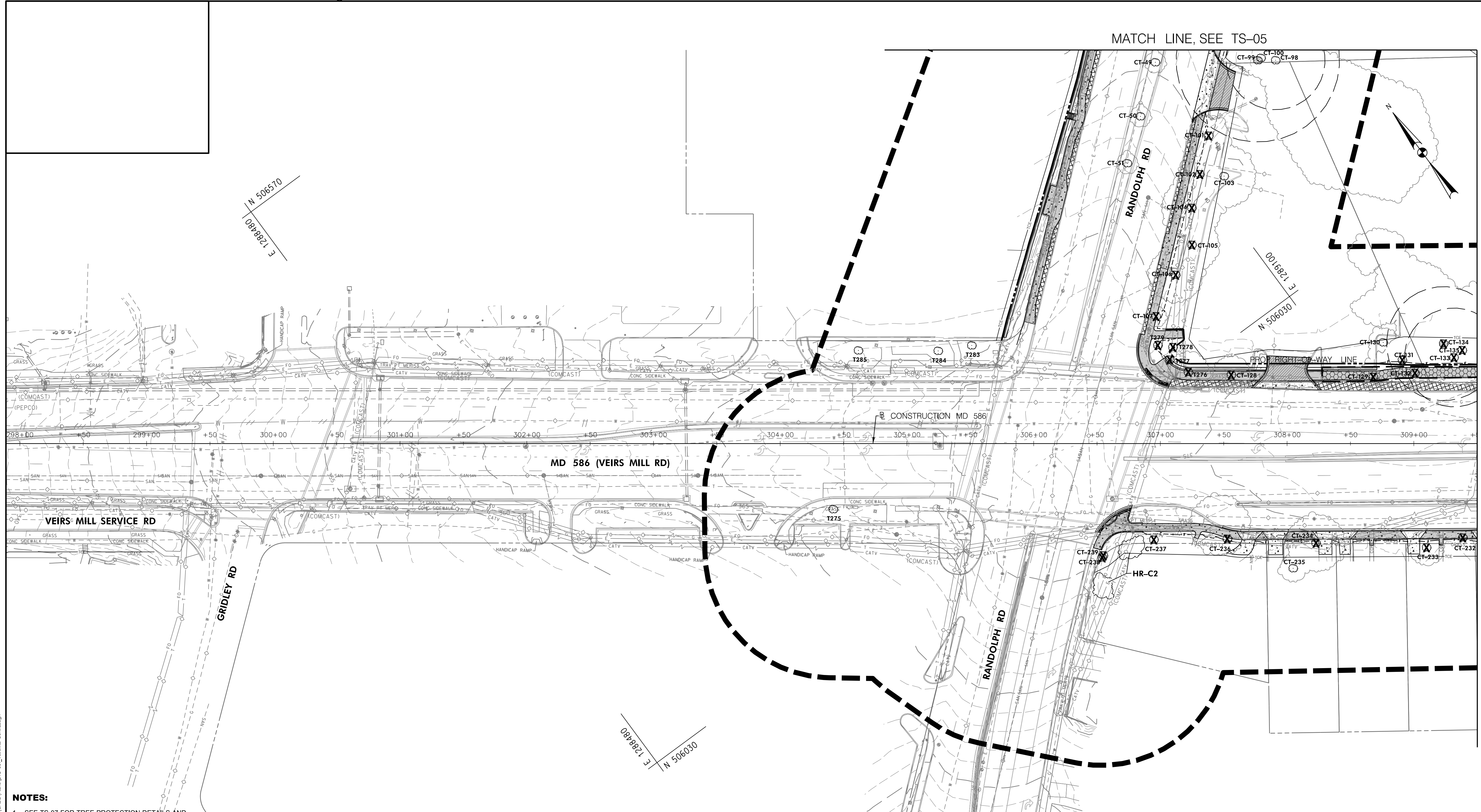
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TRAFFIC ENGINEERING DESIGN DIVISION

MD 586 (VEIRS MILL RD) BIKE  
AND PEDESTRIAN PRIORITY  
AREA - CENTRAL SECTOR

REVISIONS		LIGHTING PLAN	
SCALE 1" = 50'		DATE JUNE 2022	CONTRACT NO. 502003
DESIGNED BY SJC	COUNTY MONTGOMERY		
DRAWN BY SJC	LOGMILE		
CHECKED BY WFW	TIMS NO.		
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MATCH LINE, SEE TS-05

MATCH LINE, SEE TS-02

**NOTES:**

- SEE TS-07 FOR TREE PROTECTION DETAILS AND NOTES.
- SEE TS-08 THROUGH TS-13 FOR TREE INVENTORY TABLE
- TREE PROTECTION FENCE SHOWN OUTSIDE OF THE LOD FOR GRAPHICAL PURPOSES ONLY. TPF TO BE INSTALLED AS INDICATED ON TREE PROTECTION FENCE AND ROOT PRUNING DETAIL SHOWN ON TS-07.
- THE PROJECT IS AT CONCEPT DESIGN AND AN LOD IS CURRENTLY UNAVAILABLE. THE CONCEPT DESIGN AND CUT/FILL LINES WERE USED TO ESTIMATE ANTICIPATED TREE IMPACTS. AN LOD WILL BE DEVELOPED WITH THE E&S PLANS AT SEMI-FINAL DESIGN AND WILL BE INCLUDED ON THE TREE SAVE PLANS AT THAT TIME.

**LEGEND**

T-103		SIGNIFICANT TREE WITH CRITICAL ROOT ZONE		EXTENT OF FOREST/HEDGEROW CANOPY
T-102		SPECIMEN TREE WITH CRITICAL ROOT ZONE		EXTENT OF TREE CANOPY
T-244		INVENTORIED TREES		EXISTING CONTOURS
		SURVEY TREES		EXISTING PROPERTY BOUNDARY
		TREE TO BE REMOVED		PROPOSED PROPERTY BOUNDARY
		TREE PROTECTION FENCE		ASPHALT SHARED USE PATH
		TPF SIGN		CONCRETE SIDEWALK
		SPECIMEN TREE SIGN		ASPHALT DRIVEWAY
		TPF SIGN		CONCRETE DRIVEWAY
		STUDY BOUNDARY		PERVIOUS ASPHALT SHARED USE PATH
		LIMIT OF CUT		DETECTABLE WARNING SURFACE
		LIMIT OF FILL		PROPOSED BRT IMPROVEMENTS
		FOREST STAND/HEDGEROW LABEL		IMPROVEMENTS BY OTHERS

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**CONTACT:**  
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 ENGINEERING  
 240-777-7237

NO.	REVISION	DATE	BY

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 Chief, Transportation Planning and Design Section

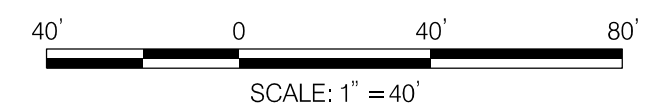
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 Chief, Division of Transportation Engineering

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MONTGOMERY COUNTY  
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 DIVISION OF TRANSPORTATION ENGINEERING  
**MD 586/VEIRS MILL BIKE AND PEDESTRIAN  
 PRIORITY AREA – CENTRAL SECTOR**

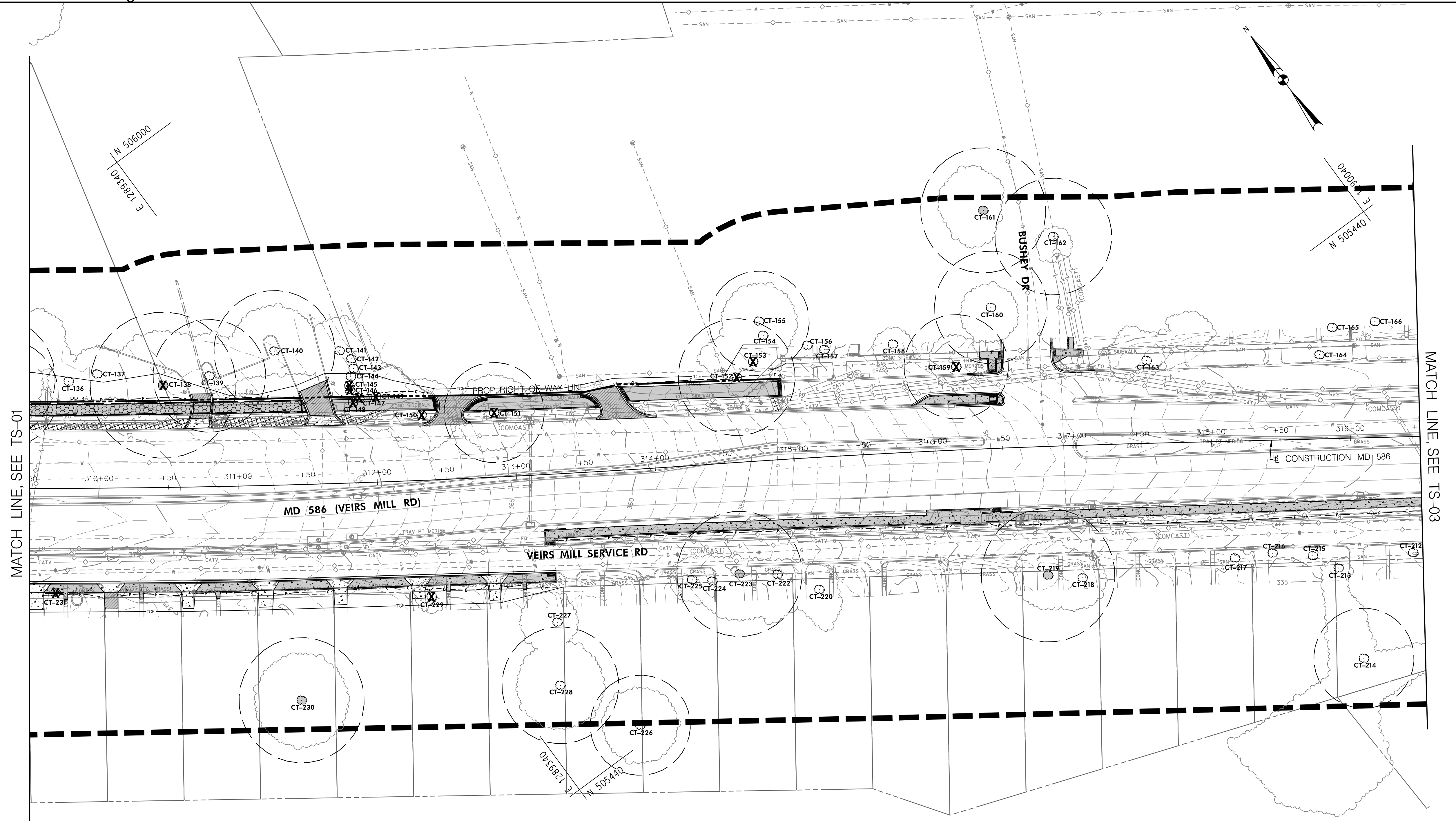
PRELIMINARY TREE SAVE PLAN  
 BASE MAP # \_\_\_\_\_ TAX MAP # \_\_\_\_\_  
 SCALE 1"=40' DATE JUNE 2022

CONTRACT NO. 502003 SHEET NO. 33 OF 46



DWG. TS-01



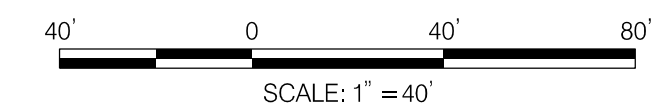


**NOTES:**

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**LEGEND**

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T-102		SPECIMEN TREE WITH CRITICAL ROOT ZONE		EXTENT OF TREE CANOPY
T-244		INVENTORIED TREES		EXISTING CONTOURS
		SURVEY TREES		EXISTING PROPERTY BOUNDARY
		TREE TO BE REMOVED		PROPOSED PROPERTY BOUNDARY
		TREE PROTECTION FENCE		ASPHALT SHARED USE PATH
		TPF SIGN		CONCRETE SIDEWALK
		SPECIMEN TREE SIGN		ASPHALT DRIVEWAY
		TPF SIGN		CONCRETE DRIVEWAY
		STUDY BOUNDARY		PERVIOUS ASPHALT SHARED USE PATH
		LIMIT OF CUT		DETECTABLE WARNING SURFACE
		LIMIT OF FILL		PROPOSED BRT IMPROVEMENTS
FS-1/HR-1		FOREST STAND/HEDGEROW LABEL		IMPROVEMENTS BY OTHERS



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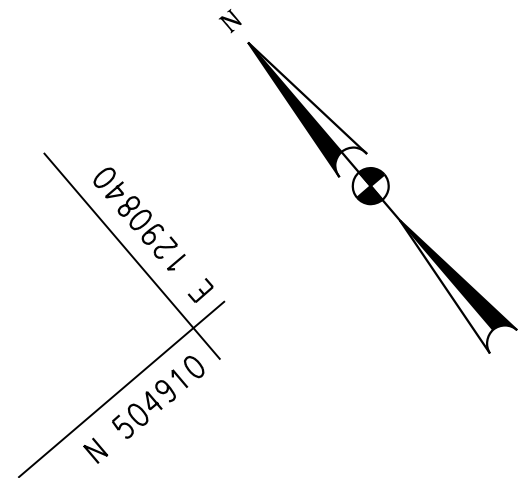
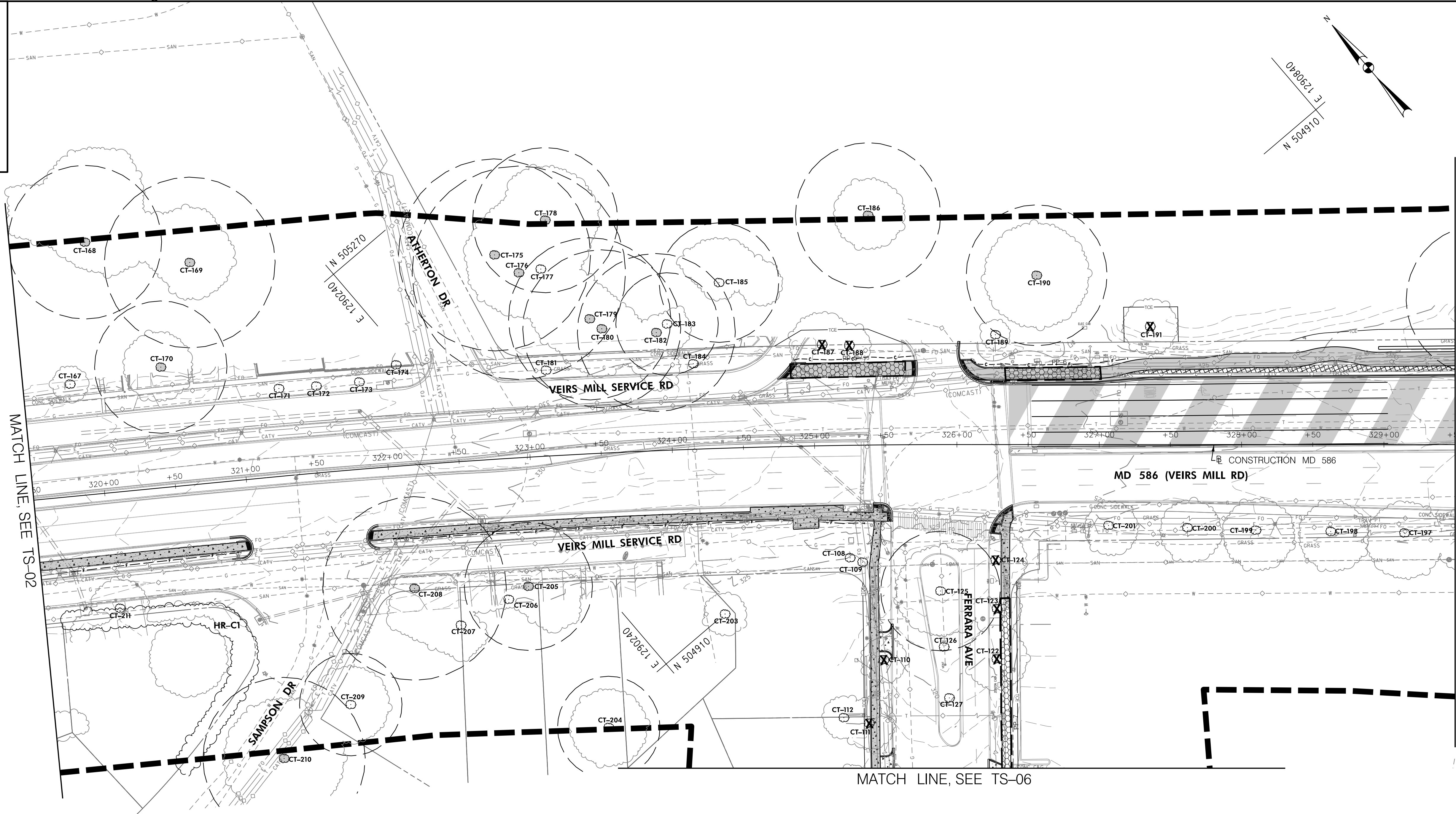
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 DEPARTMENT OF TRANSPORTATION  
 DIVISION OF TRANSPORTATION ENGINEERING  
**MD 586/VEIRS MILL BIKE AND PEDESTRIAN  
 PRIORITY AREA – CENTRAL SECTOR**

PRELIMINARY TREE SAVE PLAN  
 BASE MAP # \_\_\_\_\_ TAX MAP # \_\_\_\_\_  
 SCALE 1"=40' DATE JUNE 2022

CONTRACT NO. 502003 SHEET NO. 34 OF 46

DWG. TS-02



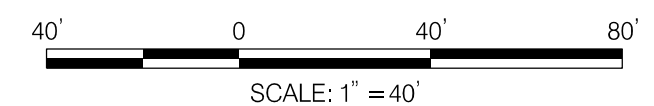
MATCH LINE, SEE TS-02

MATCH LINE, SEE TS-04

MATCH LINE, SEE TS-06

- NOTES:**
- SEE TS-07 FOR TREE PROTECTION DETAILS AND NOTES.
  - SEE TS-08 THROUGH TS-13 FOR TREE INVENTORY TABLE
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LEGEND	
	SIGNIFICANT TREE WITH CRITICAL ROOT ZONE
	SPECIMEN TREE WITH CRITICAL ROOT ZONE
	INVENTORIED TREES
	SURVEY TREES
	TREE TO BE REMOVED
	TREE PROTECTION FENCE
	SPECIMEN TREE SIGN
	TPF SIGN
	STUDY BOUNDARY
	LIMIT OF CUT
	LIMIT OF FILL
	FOREST STAND/HEDGEROW LABEL
	EXTENT OF FOREST/HEDGEROW CANOPY
	EXTENT OF TREE CANOPY
	EXISTING CONTOURS
	EXISTING PROPERTY BOUNDARY
	PROPOSED PROPERTY BOUNDARY
	ASPHALT SHARED USE PATH
	CONCRETE SIDEWALK
	ASPHALT DRIVEWAY
	CONCRETE DRIVEWAY
	PERVIOUS ASPHALT SHARED USE PATH
	DETECTABLE WARNING SURFACE
	PROPOSED BRT IMPROVEMENTS
	IMPROVEMENTS BY OTHERS



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DESIGNED BY KR DRAWN BY NLB CHECKED BY MH

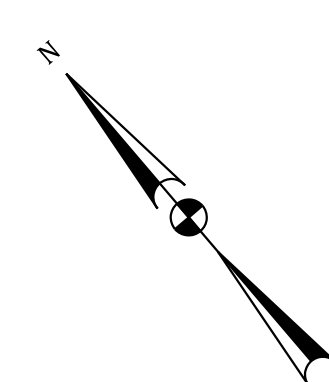
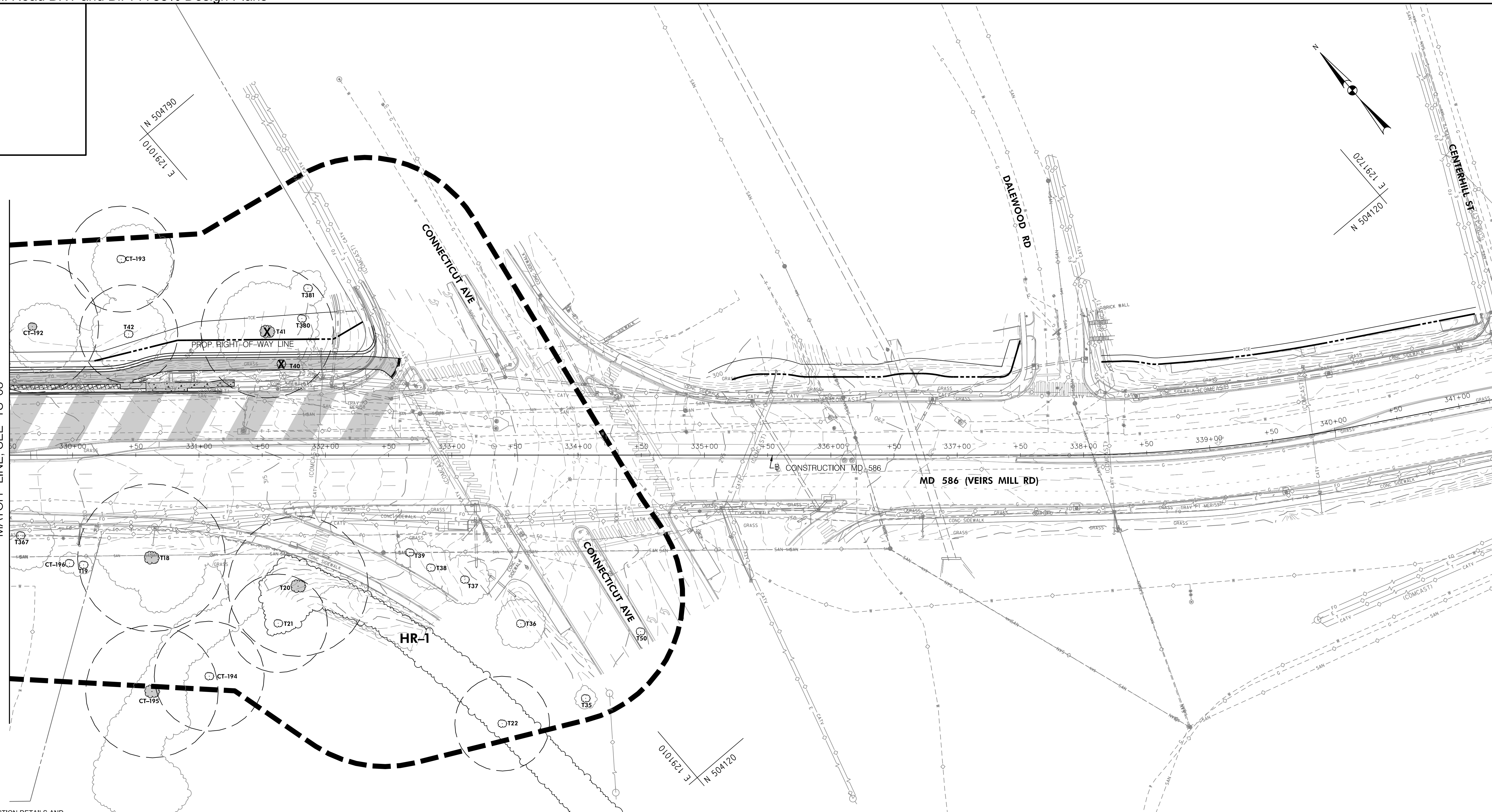
MONTGOMERY COUNTY  
 DEPARTMENT OF TRANSPORTATION  
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**MD 586/VEIRS MILL BIKE AND PEDESTRIAN  
 PRIORITY AREA – CENTRAL SECTOR**

PRELIMINARY TREE SAVE PLAN  
 BASE MAP # \_\_\_\_\_ TAX MAP # \_\_\_\_\_  
 SCALE 1"=40' DATE JUNE 2022

CONTRACT NO. 502003 SHEET NO. 35 OF 46

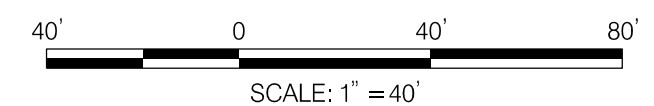
DWG. TS-03

MATCH LINE SEE TS-03



- NOTES:**
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LEGEND	
T-103	SIGNIFICANT TREE WITH CRITICAL ROOT ZONE
T-102	SPECIMEN TREE WITH CRITICAL ROOT ZONE
T-244	INVENTORIED TREES
(Symbol)	SURVEY TREES
(Symbol)	TREE TO BE REMOVED
(Symbol)	TREE PROTECTION FENCE
(Symbol)	TPF SIGN
(Symbol)	SPECIMEN TREE SIGN
(Symbol)	TPF SIGN
(Symbol)	STUDY BOUNDARY
(Symbol)	LIMIT OF CUT
(Symbol)	LIMIT OF FILL
FS-V/HR-1	FOREST STAND/ HEDGEROW LABEL
(Symbol)	EXTENT OF FOREST/ HEDGEROW CANOPY
(Symbol)	EXTENT OF TREE CANOPY
(Symbol)	EXISTING CONTOURS
(Symbol)	EXISTING PROPERTY BOUNDARY
(Symbol)	PROPOSED PROPERTY BOUNDARY
(Symbol)	ASPHALT SHARED USE PATH
(Symbol)	CONCRETE SIDEWALK
(Symbol)	ASPHALT DRIVEWAY
(Symbol)	CONCRETE DRIVEWAY
(Symbol)	PERVIOUS ASPHALT SHARED USE PATH
(Symbol)	DETECTABLE WARNING SURFACE
(Symbol)	PROPOSED BRT IMPROVEMENTS
(Symbol)	IMPROVEMENTS BY OTHERS



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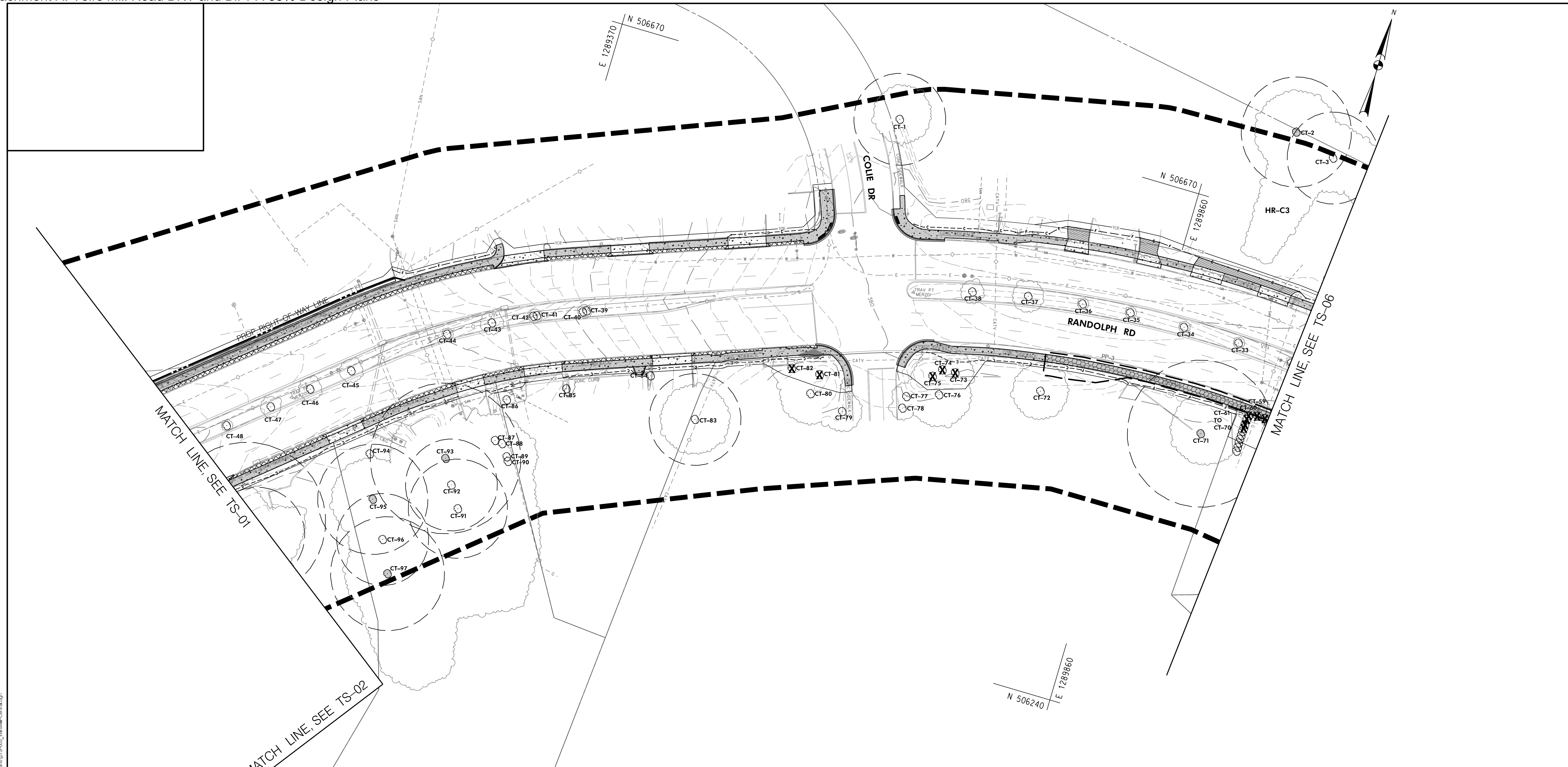
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MONTGOMERY COUNTY  
 DEPARTMENT OF TRANSPORTATION  
 DIVISION OF TRANSPORTATION ENGINEERING  
**MD 586/VEIRS MILL BIKE AND PEDESTRIAN  
 PRIORITY AREA – CENTRAL SECTOR**

PRELIMINARY TREE SAVE PLAN

BASE MAP # \_\_\_\_\_ TAX MAP # \_\_\_\_\_  
 SCALE 1"=40' DATE JUNE 2022

CONTRACT NO. 502003 SHEET NO. 36 OF 46

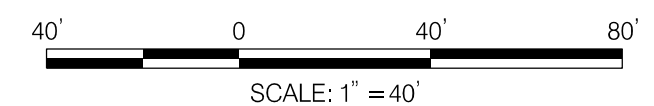


**NOTES:**

- SEE TS-07 FOR TREE PROTECTION DETAILS AND NOTES.
- SEE TS-08 THROUGH TS-13 FOR TREE INVENTORY TABLE
- TREE PROTECTION FENCE SHOWN OUTSIDE OF THE LOD FOR GRAPHICAL PURPOSES ONLY. TPF TO BE INSTALLED AS INDICATED ON TREE PROTECTION FENCE AND ROOT PRUNING DETAIL SHOWN ON TS-07.
- THE PROJECT IS AT CONCEPT DESIGN AND AN LOD IS CURRENTLY UNAVAILABLE. THE CONCEPT DESIGN AND CUT/FILL LINES WERE USED TO ESTIMATE ANTICIPATED TREE IMPACTS. AN LOD WILL BE DEVELOPED WITH THE E&S PLANS AT SEMI-FINAL DESIGN AND WILL BE INCLUDED ON THE TREE SAVE PLANS AT THAT TIME.

**LEGEND**

- |           |  |  |  |                                  |
|-----------|--|--|--|----------------------------------|
| T-103     |  | SIGNIFICANT TREE WITH CRITICAL ROOT ZONE |  | EXTENT OF FOREST/HEDGEROW CANOPY |
| T-102     |  | SPECIMEN TREE WITH CRITICAL ROOT ZONE    |  | EXTENT OF TREE CANOPY            |
| T-244     |  | INVENTORIED TREES                        |  | EXISTING CONTOURS                |
|           |  | SURVEY TREES                             |  | EXISTING PROPERTY BOUNDARY       |
|           |  | TREE TO BE REMOVED                       |  | PROPOSED PROPERTY BOUNDARY       |
|           |  | TREE PROTECTION FENCE                    |  | ASPHALT SHARED USE PATH          |
|           |  | TPF SIGN                                 |  | CONCRETE SIDEWALK                |
|           |  | SPECIMEN TREE SIGN                       |  | ASPHALT DRIVEWAY                 |
|           |  | TPF SIGN                                 |  | CONCRETE DRIVEWAY                |
|           |  | STUDY BOUNDARY                           |  | PERVIOUS ASPHALT SHARED USE PATH |
|           |  | LIMIT OF CUT                             |  | DETECTABLE WARNING SURFACE       |
|           |  | LIMIT OF FILL                            |  | PROPOSED BRT IMPROVEMENTS        |
| FS-1/HR-1 |  | FOREST STAND/HEDGEROW LABEL              |  | IMPROVEMENTS BY OTHERS           |



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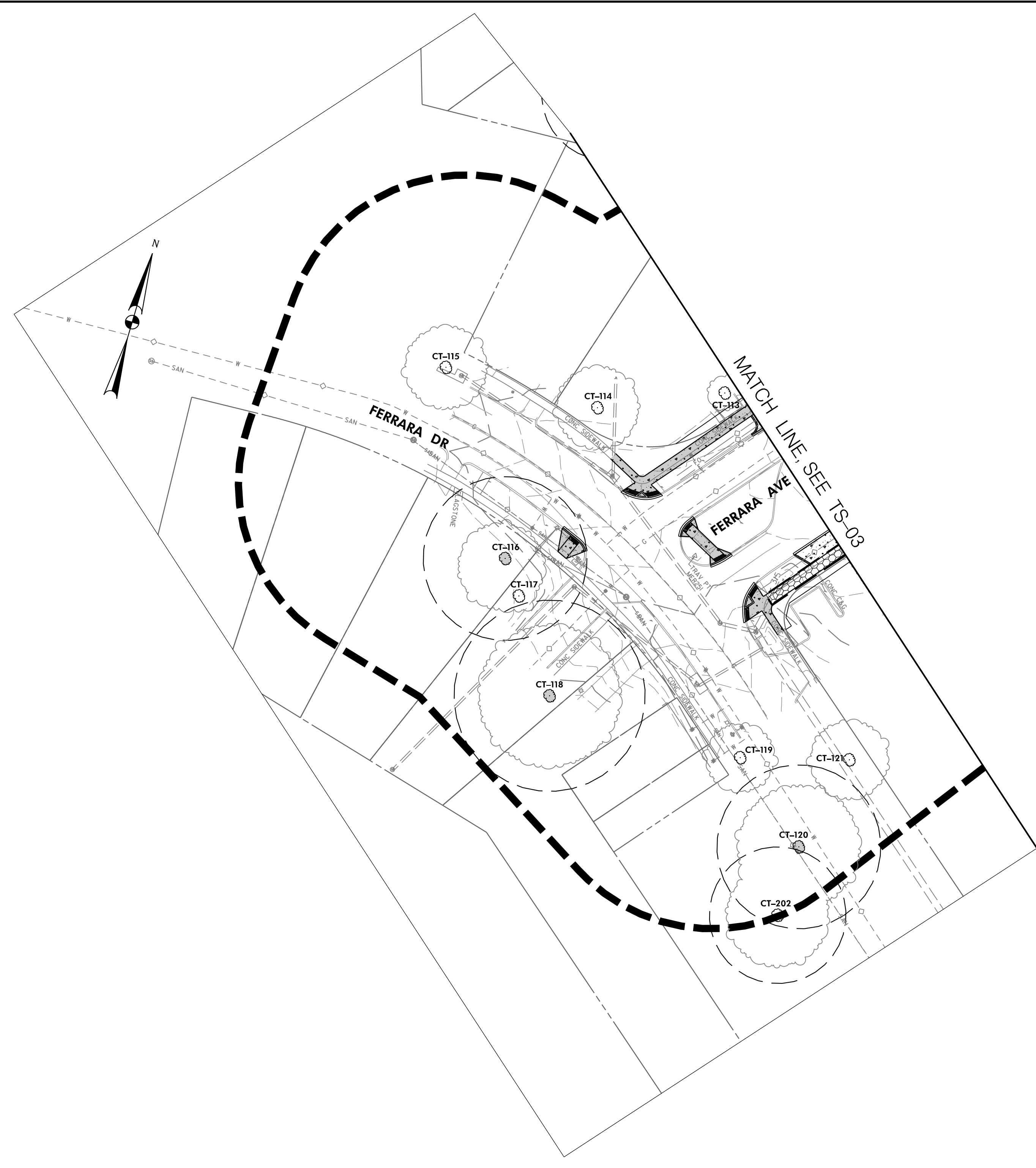
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 PRIORITY AREA – CENTRAL SECTOR

PRELIMINARY TREE SAVE PLAN  
 BASE MAP # \_\_\_\_\_ TAX MAP # \_\_\_\_\_  
 SCALE 1"=40' DATE JUNE 2022

CONTRACT NO. 502003 SHEET NO. 37 OF 46

DWG. TS-05



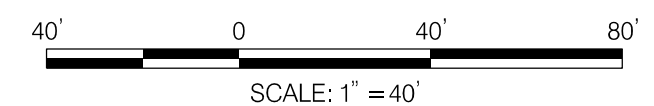
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**LEGEND**

T-103		SIGNIFICANT TREE WITH CRITICAL ROOT ZONE		EXTENT OF FOREST/ HEDGEROW CANOPY
T-102		SPECIMEN TREE WITH CRITICAL ROOT ZONE		EXTENT OF TREE CANOPY
T-244		INVENTORIED TREES		EXISTING CONTOURS
		SURVEY TREES		EXISTING PROPERTY BOUNDARY
		TREE TO BE REMOVED		PROPOSED PROPERTY BOUNDARY
		TREE PROTECTION FENCE		ASPHALT SHARED USE PATH
		TPF SIGN		CONCRETE SIDEWALK
		SPECIMEN TREE SIGN		ASPHALT DRIVEWAY
		TPF SIGN		CONCRETE DRIVEWAY
		STUDY BOUNDARY		PERVIOUS ASPHALT SHARED USE PATH
		LIMIT OF CUT		DETECTABLE WARNING SURFACE
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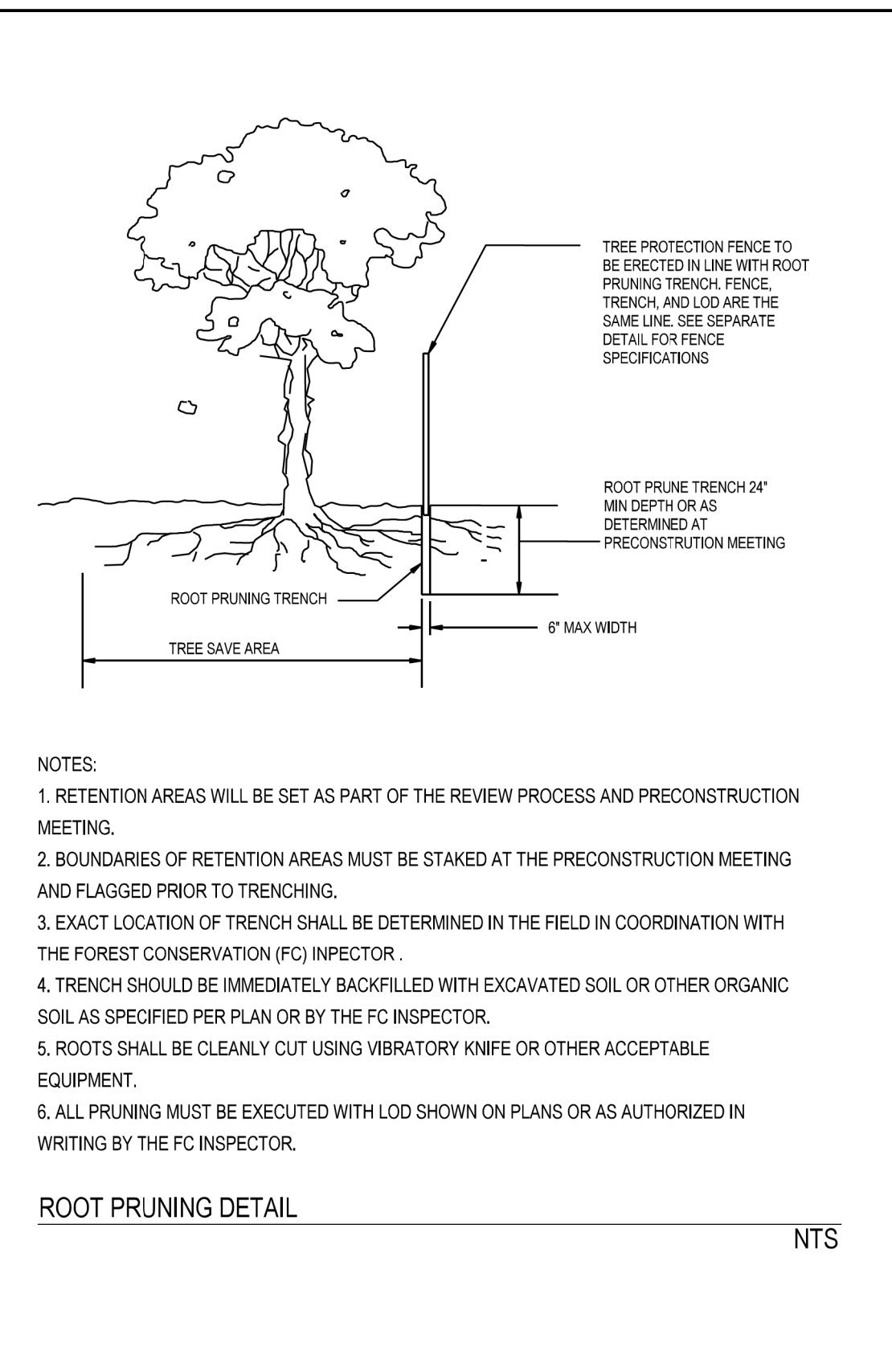
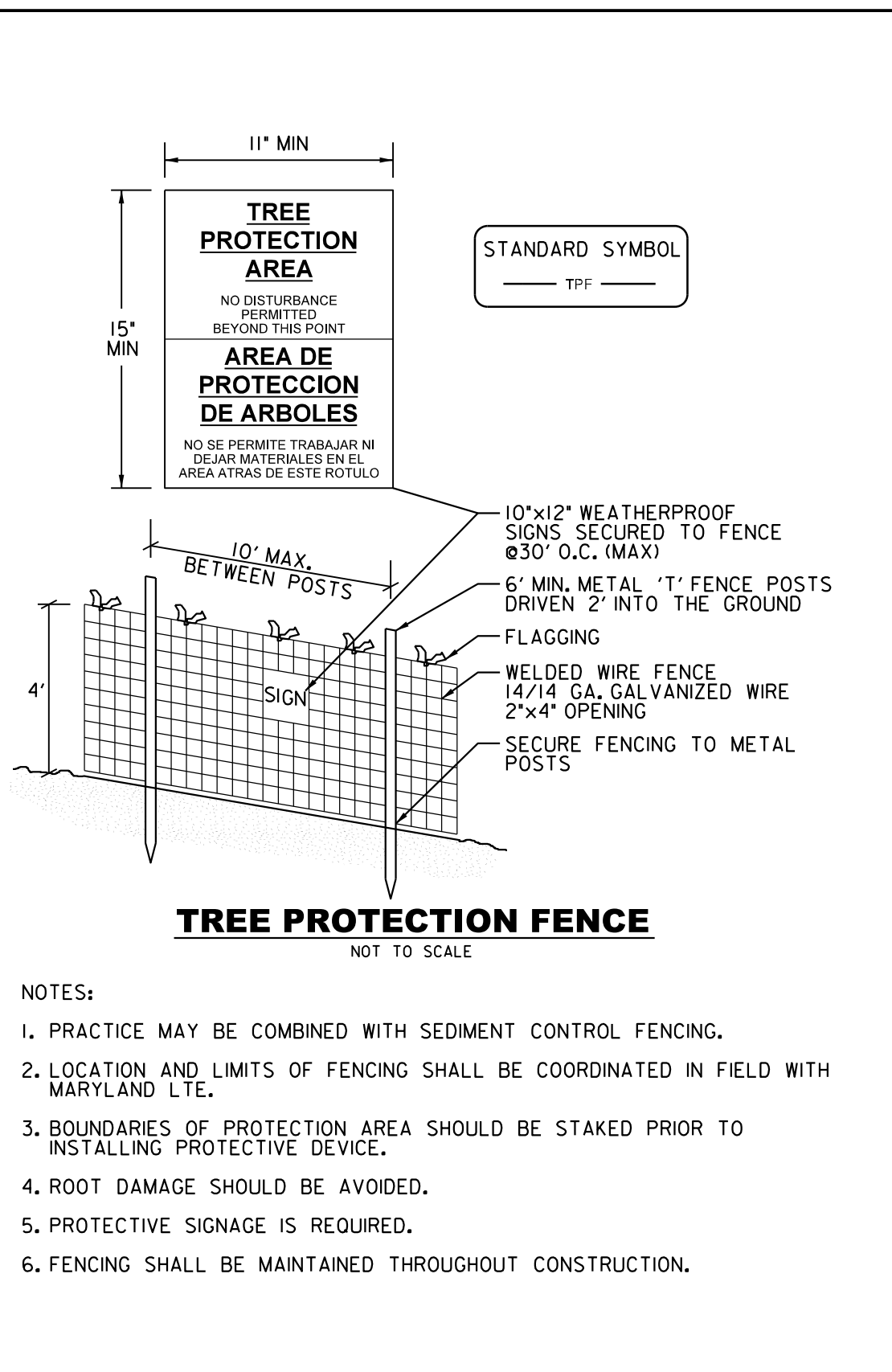
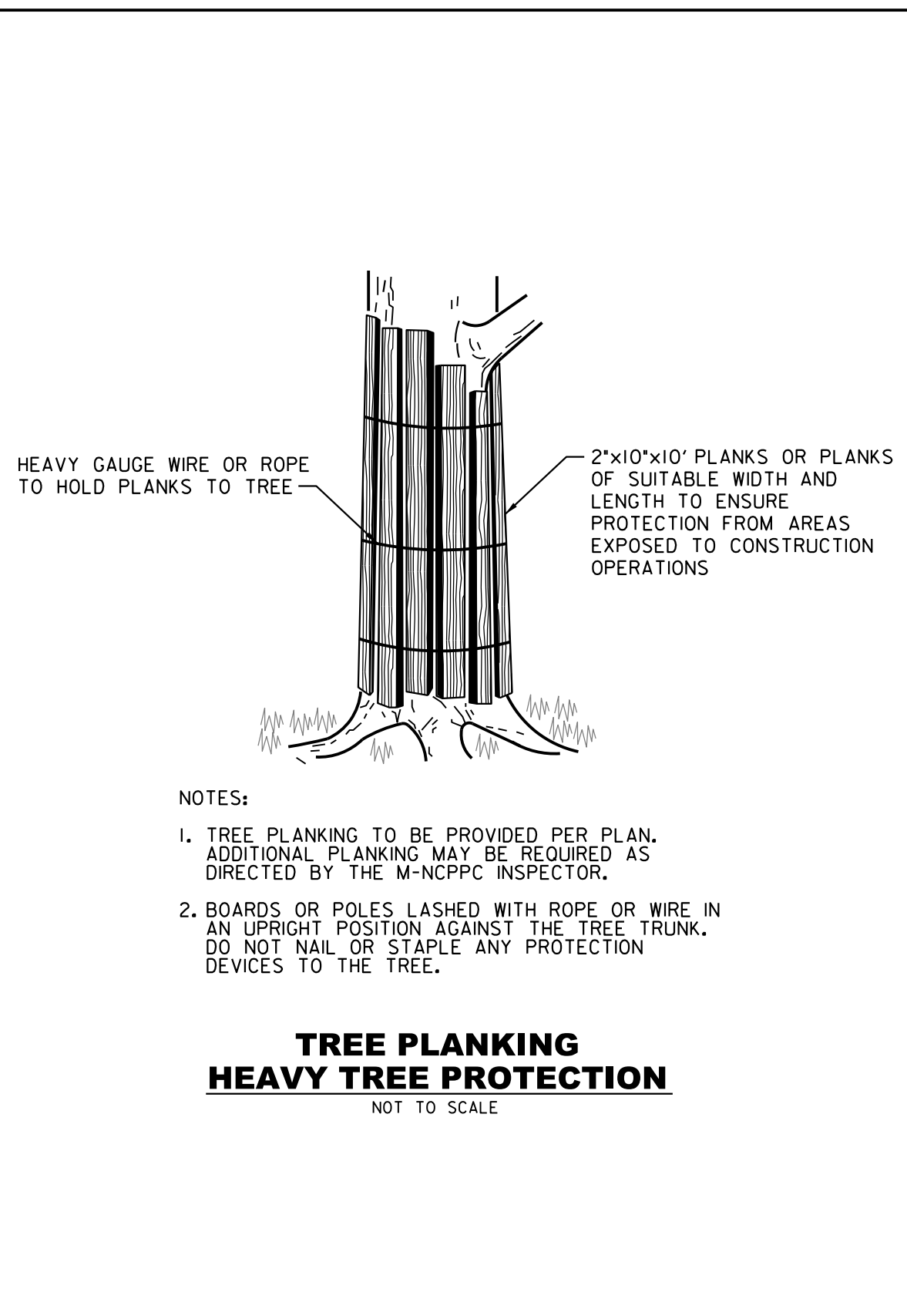
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PRELIMINARY TREE SAVE PLAN  
 BASE MAP # \_\_\_\_\_ TAX MAP # \_\_\_\_\_  
 SCALE 1"=40' DATE JUNE 2022

CONTRACT NO. 502003 SHEET NO. 38 OF 46



**Sequence of Events for Properties Required to Comply With Forest Conservation Plans, Exemptions from Submitting Forest Conservation Plans, and Tree Save Plans**

The property owner is responsible for ensuring all tree protection measures are performed in accordance with the approved final forest conservation plan or tree save plan, and as modified in the field by a Planning Department Forest Conservation Inspector. The measures must meet or exceed the most recent standards published by the American National Standards Institute (ANSI A300).

**Pre-Construction**

- An on-site pre-construction meeting is required after the limits of disturbance have been staked and flagged and before any land disturbance.
- The property owner must arrange for the meeting and following people must participate at the pre-construction meeting: the property owner or their representative, construction superintendent, International Society of Arboriculture (ISA) certified arborist/Maryland Licensed Tree Expert (representing owner) that will implement the tree protection measures, The Planning Department Forest Conservation Inspector, and Montgomery County Department of Permitting Services (DPS) Sediment Control Inspector. The purpose of this meeting is to verify the limits of disturbance and discuss specific tree protection and tree care measures shown on the approved plan. No land disturbance shall begin before tree protection and stress-reduction measures have been implemented and approved by the Planning Department's Forest Conservation Inspector.

- Typical tree protection devices include:
  - Chain link fence (four feet high)
  - Super silt fence with wire strung between the support poles (minimum 4 feet high) with high visibility flagging.
  - 14 gauge, 2 inch x 4 inch welded wire fencing supported by steel T-bar posts (minimum 4 feet high) with high visibility flagging.
- Typical stress reduction measures may include, but are not limited to:
  - Root pruning with a root cutter or vibratory plow designed for that purpose. Trenchers are not allowed, unless approved by the Forest Conservation Inspector
  - Crown Reduction or pruning
  - Watering
  - Fertilizing
  - Vertical mulching
  - Root aeration systems

Measures not specified on the Tree Save Plan may be required as determined by the Forest Conservation Inspector in coordination with the property owner's arborist.

- A Maryland Licensed Tree expert must perform, or directly supervise, the implementation of all stress reduction measures. Documentation of the process (including photographs) may be required by the Forest Conservation Inspector, and will be determined at the pre-construction meeting.

- Temporary tree protection devices must be installed per the approved Forest Conservation Plan, Exemption Plan, or Tree Save Plan and prior to any land disturbance. The Forest Conservation Inspector, in coordination with the DPS Sediment Control Inspector, may make field adjustments to increase the survivability of trees and forest shown as saved on the approved plan.

- Tree protection fencing must be installed and maintained by the property owner for the duration of construction project and must not be altered without prior approval from the Forest Conservation Inspector. All construction activity within protected tree and forest areas is prohibited. This includes the following activities:
  - Parking or driving of equipment, machinery or vehicles of any type.
  - Storage of any construction materials, equipment, stockpiling, fill, debris, etc.
  - Dumping of any chemicals (i.e., paint thinner), mortar or concrete remainder, trash, garbage, or debris of any kind.
  - Felling of trees into a protected area.
  - Trenching or grading for utilities, irrigation, drainage, etc.

- Forest and tree protection signs must be installed as required by the Forest Conservation Inspector. The signs must be waterproof and wording provided in both English and Spanish. During Construction

- Periodic inspections will be made by the Forest Conservation Inspector. Corrections and repairs to tree protection devices must be completed within the timeframe given by the Inspector.

- The property owner must immediately notify the Forest Conservation Inspector of any damage to trees, forests, understory, ground cover, and any other undisturbed areas shown on the approved plan. Remedial actions, and the relative timeframes to restore these areas, will be determined by the Forest Conservation Inspector.

**Post-Construction**

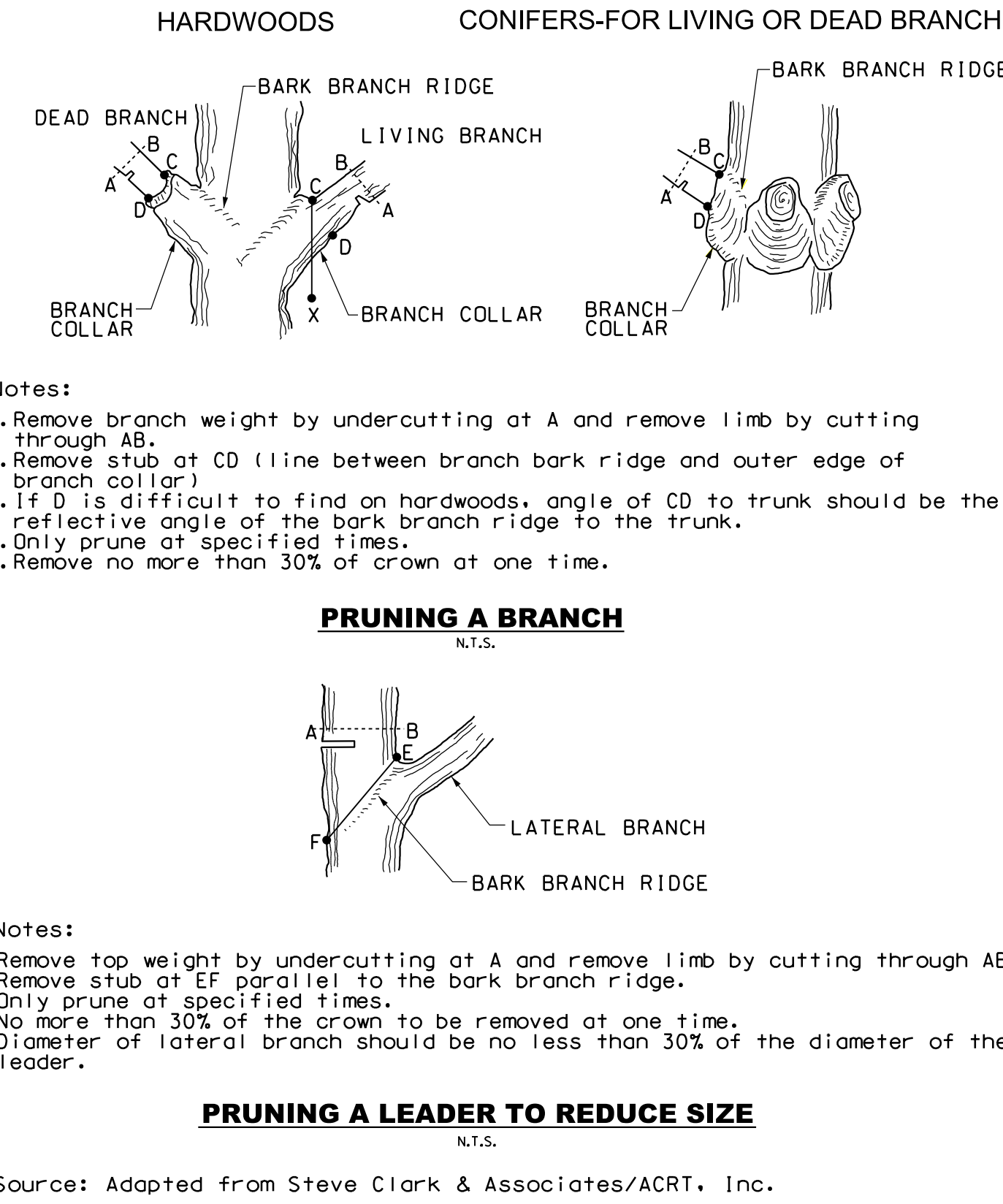
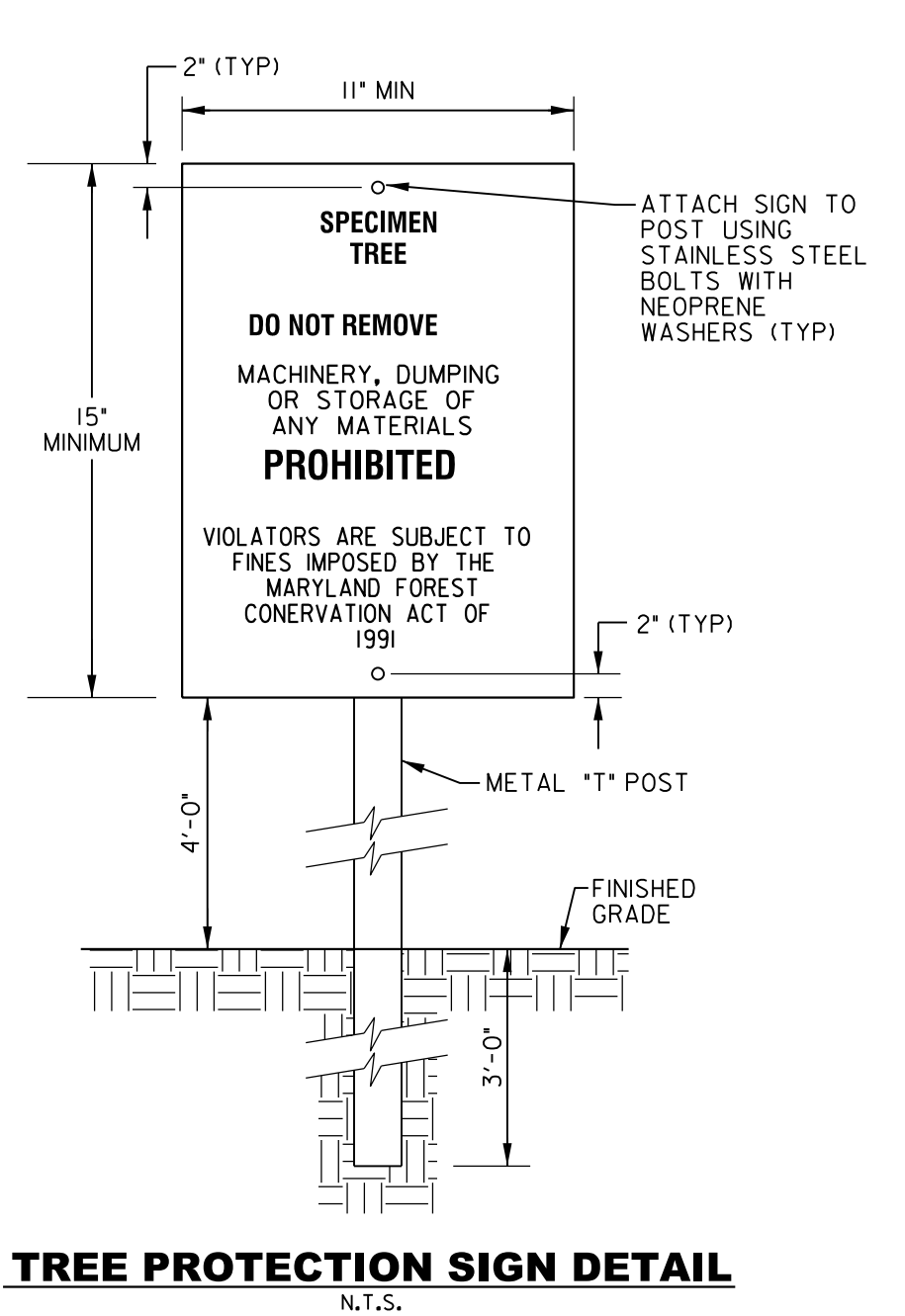
- After construction is completed, but before tree protection devices have been removed, the property owner must request a final inspection with the Forest Conservation Inspector. At the final inspection, the Forest Conservation Inspector may require additional corrective measures, which may include:
  - Removal, and possible replacement, of dead, dying, or hazardous trees
  - Pruning of dead or declining limbs
  - Soil aeration
  - Fertilization
  - Watering
  - Wound repair
  - Clean up of retention areas, including trash removal

- After the final inspection and completion of all corrective measures the Forest Conservation Inspector will request all temporary tree and forest protection devices be removed from the site. Removal of tree protection devices that also operate for erosion and sediment control must be coordinated with both DPS and the Forest Conservation Inspector and cannot be removed without permission of the Forest Conservation Inspector. No additional grading, sodding, or burial may take place after the tree protection fencing is removed.

- Long-term protection measures, including permanent signage, must be installed per the approved plan. Installation will occur at the appropriate time during the construction project. Refer to the approved plan drawing for the long-term protection measures to be installed.

DWG. TS-07

- TSP NOTES:
- ALL AREAS OUTSIDE OF THE LOD SHALL BE CONSIDERED FOREST/TREE PRESERVATION AREAS TO BE LEFT UNDISTURBED.
  - IT IS CURRENTLY ESTIMATED THAT FOUR SIGNIFICANT (>24" DBH) TREES AND THREE SPECIMEN TREES (>30"DBH OR 75% OF STATE CHAMPIONS) WILL BE REMOVED. OTHER SIGNIFICANT AND SPECIMEN TREES HAVE SOME CRITICAL ROOT ZONE WITHIN THE LOD AND MAY REQUIRE SUPPLEMENTAL TREE PROTECTION MEASURES. THE EXACT QUANTITY OF TREE REMOVALS WILL BE DETERMINED WHEN THE PROJECT PROGRESSES TO FINAL DESIGN. ALL WORK ACTIVITIES NEAR THESE TREES SHALL BE SUPERVISED AND DIRECTED BY A MD LICENSED TREE EXPERT (LTE).
  - TREE SAVE PLANS PREPARED BY KARLEY ROUTH, QP. FIELD DATA COLLECTED ON JANUARY 5, 2022 AND JANUARY 12, 2022.
  - THE VEIRS MILL/RANDOLPH BIKE AND PEDESTRIAN PRIORITY AREA (BiPPA) PROJECT IS LOCATED WITHIN THE ROCK CREEK WATERSHED (MDE 8-DIGIT CODE 02140206) USE CLASS I.
  - NONE OF THE FEDERAL EMERGENCY MANAGEMENT AGENCY (FEMA) 100-YEAR FLOODPLAIN (PANEL NUMBER 24031C0365D) FALLS WITHIN THE PROJECT STUDY AREA, ACCORDING TO FEMA AND MONTGOMERY COUNTY GIS DATA.
  - NO WATERWAYS AND NO WETLANDS WERE IDENTIFIED WITHIN THE PROJECT STUDY AREA. THE NWI AND DNR WETLAND INVENTORY MAPPING AND MCLAS INDICATE THAT NO WETLANDS AND NO WATERWAYS ARE LOCATED IN THE PROJECT STUDY AREA.
  - ON MARCH 28, 2022, A USFWS IPAC ONLINE DATABASE QUERY INDICATED THAT THE FEDERALLY THREATENED NORTHERN LONG-EARED BAT (NLEB) MAY OCCUR IN THE PROJECT STUDY AREAS. THE USFWS DETERMINATION KEY FOR THIS SPECIES CONFIRMED THAT THERE ARE NO HABITAT CONCERNS FOR THE NLEB SINCE FOREST CLEARING FOR THIS PROJECT WILL NOT EXCEED 15 ACRES. THEREFORE, NO FURTHER COORDINATION WITH USFWS IS REQUIRED.
  - A REQUEST FOR INFORMATION ON THE PRESENCE OF RTE SPECIES WAS SENT TO THE WILDLIFE AND HERITAGE SECTION (MDNR-WH) ON JANUARY 27, 2022. A RESPONSE FROM MDNR-WH WAS RECEIVED ON MARCH 2, 2022, INDICATING THAT THERE ARE NO OFFICIAL STATE OR FEDERAL RECORDS FOR LISTED PLANT OR ANIMAL SPECIES WITHIN THE PROJECT AREAS. MDNR-PRD'S SELF-SCREENING TOOL WAS QUERIED ON APRIL 7, 2022, AND DID NOT IDENTIFY ANY RESOURCES WITHIN THE PROJECT STUDY AREA. NO FURTHER COORDINATION WITH MDNR-WH AND MDNR-ERP IS REQUIRED. NO RTE SPECIES WERE OBSERVED ON SITE DURING FIELD INVESTIGATIONS.
  - MCDOT ANTICIPATES THAT THEY WILL SEEK FEDERAL FUNDING FOR THE PROPOSED PROJECT AND WILL BE SUBJECT TO FOLLOW THE NATIONAL ENVIRONMENTAL POLICY ACT REQUIREMENTS, INCLUDING SECTION 106 COORDINATION. THE CULTURAL AND HISTORIC RESOURCES COORDINATION FOR THIS PROJECT IS CURRENTLY ONGOING.
  - THE PURPOSE OF THIS PROJECT IS TO DEVELOP A NEW SHARED USE BICYCLE/PEDESTRIAN PATH AND SIDEWALK, INCLUDING INTERSECTION, SIGNAL, SIGNING, PAVEMENT MARKING, AND LIGHTING IMPROVEMENTS ALONG 2,700 FEET OF VEIRS MILL ROAD BETWEEN RANDOLPH ROAD AND CONNECTICUT AVENUE, AND ALONG 1,500 FEET OF RANDOLPH ROAD BETWEEN VIERS MILL ROAD AND BUSHEY DRIVE.
  - THE LOCATION OF ACTUAL TREE PROTECTION MEASURES INCLUDING TREE PROTECTION FENCING, ROOT PRUNING, HEAVY TREE PROTECTION, AND AIR SPADING WILL BE DETERMINED WHEN THE PROJECT PROGRESSES TO FINAL DESIGN.



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PRELIMINARY TREE SAVE DETAILS AND NOTES

BASE MAP # \_\_\_\_\_ TAX MAP # \_\_\_\_\_  
SCALE \_\_\_\_\_ DATE JUNE 2022

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**TREE INVENTORY TABLE**

Tree ID	Removal	Scientific Name	Common Name	DBH (inches)	CRZ (feet)	Condition	Specimen or Significant Tree	Comments
CT-1		Acer rubrum	Red maple	25	37.5	Fair	Significant Tree	Significant trunk wound, girdling, exposed roots
CT-2		Acer rubrum	Red maple	30	45	Fair	Specimen Tree	Diameter at breast height (DBH) via ocular estimate, missing large branch, lean, included bark
CT-3		Acer rubrum	Red maple	25	37.5	Poor	Significant Tree	Topped, dead significant branch, DBH via ocular estimate
CT-4		Juniperus virginiana	Eastern red cedar	11	-	Fair/Poor	-	Cavity in trunk, missing branches, sparse crown
CT-5		Juniperus virginiana	Eastern red cedar	6	-	Fair/Poor	-	Missing branches, sparse crown
CT-6		Juniperus virginiana	Eastern red cedar	11	-	Fair/Poor	-	Cavity in trunk, missing branches, sparse crown, peeling bark
CT-7		Thuja occidentalis	Arborvitae	1	-	Good	-	-
CT-8	X	Thuja occidentalis	Arborvitae	1	-	Good	-	-
CT-9	X	Thuja occidentalis	Arborvitae	1	-	Good	-	-
CT-10		Thuja occidentalis	Arborvitae	1	-	Good	-	-
CT-11		Thuja occidentalis	Arborvitae	1	-	Good	-	-
CT-12	X	Thuja occidentalis	Arborvitae	1	-	Good	-	-
CT-13	X	Thuja occidentalis	Arborvitae	1	-	Good	-	-
CT-14	X	Lagerstroemia indica	Crape myrtle	2	-	Good	-	Multistem
CT-15		Acer rubrum	Red maple	24	36	Poor	Significant Tree	Large dead branch, significant pruning, leader dead, trunk wound
CT-16		Acer rubrum	Red maple	32	48	Good	Specimen Tree	Minor dead branches, exposed roots
CT-17		Acer rubrum	Red maple	28	42	Fair/Poor	Significant Tree	Codominant stems, significant pruning, large dead branches, girdling roots
CT-18		Acer palmatum	Japanese maple	8	-	Good	-	DBH via ocular estimate
CT-19		Quercus alba	White oak	30	45	Fair	Specimen Tree	Significant vines on trunk, DBH via ocular estimate
CT-20		Magnolia grandiflora	Southern magnolia	24	36	Good	Significant Tree	Minor English ivy on trunk, DBH via ocular estimate
CT-21		Picea abies	Norway spruce	18	-	Good	-	-
CT-22		Picea abies	Norway spruce	14	-	Good	-	-
CT-23		Picea abies	Norway spruce	14	14	Good	-	-
CT-24		Picea abies	Norway spruce	14	-	Good	-	-
CT-25		Prunus sp.	Cherry sp.	1	-	Fair	-	Suckering, heavily pruned, cicada damage on leader
CT-26		Prunus sp.	Cherry sp.	1	-	Fair	-	Suckering, heavily pruned, cicada damage on leader
CT-27		Acer rubrum	Red maple	4	-	Good	-	Exposed roots
CT-28	X	Pyrus calleryana	Bradford pear	5	-	Good/Fair	-	Suckering
CT-29	X	Prunus serrulata 'Kwanzan'	Kwanzan cherry	11	-	Good	-	-
CT-30		Tilia cordata	Little leaf linden	15	-	Good	-	Slight lean
CT-31		Taxodium distichum	Bald cypress	3	-	Good	-	-
CT-32		Taxodium distichum	Bald cypress	2	-	Good	-	-
CT-33		Taxodium distichum	Bald cypress	3	-	Good	-	-
CT-34		Taxodium distichum	Bald cypress	1	-	Good/Fair	-	Suckering
CT-35		Taxodium distichum	Bald cypress	2	-	Good	-	-
CT-36		Taxodium distichum	Bald cypress	3	-	Good	-	-
CT-37		Tilia cordata	Little leaf linden	11	-	Fair	-	Exposed roots, trunk cavity
CT-38		Tilia cordata	Little leaf linden	8	-	Good	-	Twin, split below DBH, minor cavities from missing branches
CT-39		Quercus bicolor	Swamp white oak	3	-	Fair	-	Cicada damage on branches, sparse crown
CT-40		Quercus bicolor	Swamp white oak	3	-	Poor	-	Dead leader, suckering
CT-41		Quercus bicolor	Swamp white oak	2	-	Fair	-	Suckering
CT-42		Quercus bicolor	Swamp white oak	4	-	Fair	-	Significant trunk wound
CT-43		Quercus bicolor	Swamp white oak	8	-	Good	-	Minor exposed roots, minor trunk wound
CT-44		Quercus bicolor	Swamp white oak	5	-	Fair	-	Significant splitting in trunk
CT-45		Quercus bicolor	Swamp white oak	8	-	Good	-	-
CT-46		Quercus bicolor	Swamp white oak	8	-	Good	-	Sealing trunk wound
CT-47		Quercus bicolor	Swamp white oak	7	-	Good	-	Sealing trunk wound
CT-48		Quercus bicolor	Swamp white oak	2	-	Good	-	Sealing trunk wound
CT-49		Quercus bicolor	Swamp white oak	7	-	Good	-	Sealing trunk wound

**TREE CONDITION ASSESSMENT GUIDELINES**

- ▶ **Excellent** - healthy tree with exceptional growth form; no visible defects; well-formed crown; few minor dead branches acceptable; this tree condition is rare.
- ▶ **Good** - healthy tree; very minor defects/decay acceptable with callous forming/complete; well-formed crown; minor lean and/or few minor/major dead branches acceptable; vines may be growing along trunk but not present within crown.
- ▶ **Fair** - health questionable/stress evident; structurally sound tree; defects present that do not affect structural integrity; moderate lean; minor/major dead branches may be present; crown not broken out but not necessarily well formed or even; vines may be growing along trunk and within crown.  
*Ex. Fair tree could be experiencing insect damage, or exhibit a growth form that makes it very susceptible to wind damage in an open setting.*
- ▶ **Poor** - significant health problems; may be structurally unsound; may be dead or dying; may contain significant decay; may have broken or missing top/crown; may have heavy lean; vines may be significantly affecting tree health.

*Note: These guidelines were developed by RK&K based on the professional judgment of our Certified Arborists and other senior environmental staff.*

These tree species may commonly exhibit dead branches and/or ratty growth form/structure, which should be taken into account when assessing tree condition:

- Mulberry (*Morus spp.*)
- Pin Oak (*Quercus palustris*)
- Silver Maple (*Acer saccharinum*)
- Virginia Pine (*Pinus virginiana*)
- Scarlet Oak (*Quercus coccinea*)
- Black Locust (*Robinia pseudoacacia*)
- Osage Orange (*Maclura pomifera*)
- Willow Oak (*Quercus phellos*)
- Black Willow (*Salix nigra*)

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DWG. TS-08



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 MD 586/VEIRS MILL BIKE AND PEDESTRIAN  
 PRIORITY AREA – CENTRAL SECTOR

PRELIMINARY TREE SAVE DETAILS AND NOTES  
 BASE MAP # \_\_\_\_\_ TAX MAP # \_\_\_\_\_  
 SCALE \_\_\_\_\_ DATE JUNE 2022

NO.	REVISION	DATE	BY	DESIGNED BY <u>KR</u>	DRAWN BY <u>NLB</u>	CHECKED BY <u>MH</u>	CONTRACT NO. 502003	SHEET NO. <u>40</u> OF <u>46</u>
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**TREE INVENTORY TABLE**

Tree ID	Removal	Scientific Name	Common Name	DBH (inches)	CRZ (feet)	Condition	Specimen or Significant Tree	Comments
CT-50		Quercus bicolor	Swamp white oak	7	-	Good	-	Sealing trunk wound
CT-51		Quercus bicolor	Swamp white oak	7	-	Fair	-	Significant trunk wound
CT-52	X	Cornus florida	Flowering dogwood	2	-	Good	-	-
CT-53	X	Picea pungens	Blue spruce	12	-	Good	-	DBH via ocular estimate
CT-54	X	Prunus sp.	Cherry sp.	10	-	Good	-	Multistem, pruned branches, DBH via ocular estimate
CT-55	X	Morus alba	White mulberry	12	-	Fair	-	Multistem , heavy pruning, cavity at base, decay at base of branches
CT-56	X	Thuja occidentalis	Arborvitae	2	-	Good	-	-
CT-57	X	Thuja occidentalis	Arborvitae	2	-	Good	-	-
CT-58	X	Thuja occidentalis	Arborvitae	2	-	Good	-	-
CT-59	X	Thuja occidentalis	Arborvitae	2	-	Good	-	-
CT-60	X	Thuja occidentalis	Arborvitae	2	-	Good	-	-
CT-61	X	Thuja occidentalis	Arborvitae	2	-	Good	-	-
CT-62	X	Thuja occidentalis	Arborvitae	2	-	Good	-	-
CT-63	X	Thuja occidentalis	Arborvitae	2	-	Good	-	-
CT-64	X	Thuja occidentalis	Arborvitae	2	-	Good	-	-
CT-65		Thuja occidentalis	Arborvitae	2	-	Good	-	-
CT-66		Thuja occidentalis	Arborvitae	2	-	Good	-	-
CT-67		Thuja occidentalis	Arborvitae	2	-	Good	-	-
CT-68		Thuja occidentalis	Arborvitae	2	-	Good	-	-
CT-69		Thuja occidentalis	Arborvitae	2	-	Good	-	-
CT-70		Thuja occidentalis	Arborvitae	2	-	Good	-	-
CT-71		Pinus strobus	White pine	40	60	Good/Fair	Specimen Tree	Vines to midway up trunk
CT-72		Acer rubrum	Red maple	20	-	Fair	-	Vines on trunk, dead branches, occluded bark
CT-73	X	Pinus resinosa	Red pine	13	-	Good	-	Minor girdling roots
CT-74	X	Pinus resinosa	Red pine	18	-	Good	-	-
CT-75	X	Pinus resinosa	Red pine	14	-	Good	-	-
CT-76		Acer rubrum	Red maple	23	-	Good/Fair	-	Exposed roots with mower damage, occluded bark
CT-77		Acer rubrum	Red maple	10	-	Good	-	-
CT-78		Acer rubrum	Red maple	8	-	Good	-	-
CT-79		Acer rubrum	Red maple	14	-	Good	-	-
CT-80		Prunus subhirtella 'Pendula'	Weeping cherry	22	-	Poor	-	Large dead branches, large vertical crack in trunk
CT-81	X	Pinus resinosa	Red pine	17	-	Good/Fair	-	Crown dieback
CT-82	X	Pinus resinosa	Red pine	14	-	Fair	-	Crown dieback, dead branches
CT-83		Morus alba	White mulberry	25	37.5	Fair	Significant Tree	Multistem, very large wound from missing branch, heavy pruning
CT-84		Lagerstroemia indica	Crape myrtle	1	-	Fair	-	Crown dieback, dead branches
CT-85		Lagerstroemia indica	Crape myrtle	1	-	Good	-	-
CT-86		Lagerstroemia indica	Crape myrtle	1	-	Fair	-	Moderate dead branches
CT-87		Cedrus atlantica 'Glauca'	Blue atlas cedar	19	-	Good	-	-
CT-88		Cedrus atlantica 'Glauca'	Blue atlas cedar	17	-	Good	-	Twin
CT-89		Cedrus atlantica 'Glauca'	Blue atlas cedar	22	-	Good	-	-
CT-90		Cedrus atlantica 'Glauca'	Blue atlas cedar	17	-	Good	-	-
CT-91		Quercus phellos	Willow oak	27	40.5	Good/Fair	Significant Tree	Dead & broken branches, exposed/damaged roots
CT-92		Quercus phellos	Willow oak	25	37.5	Good	Significant Tree	Minor dead branches
CT-93		Quercus phellos	Willow oak	41	61.5	Good	Specimen Tree	-
CT-94		Malus sp.	Crabapple sp.	4	-	Good	-	-
CT-95		Quercus phellos	Willow oak	30	45	Good	Specimen Tree	Minor dead branches
CT-96		Quercus phellos	Willow oak	25	37.5	Good/Fair	Significant Tree	Minor dead branches

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MONTGOMERY COUNTY  
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 MD 586/VEIRS MILL BIKE AND PEDESTRIAN  
 PRIORITY AREA - CENTRAL SECTOR

PRELIMINARY TREE SAVE DETAILS AND NOTES  
 BASE MAP # \_\_\_\_\_ TAX MAP # \_\_\_\_\_  
 SCALE \_\_\_\_\_ DATE JUNE 2022

CONTRACT NO. 502003 SHEET NO. 41 OF 46



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TREE INVENTORY TABLE								
Tree ID	Removal	Scientific Name	Common Name	DBH (inches)	CRZ (feet)	Condition	Specimen or Significant Tree	Comments
CT-97		Quercus phellos	Willow oak	31	46.5	Fair	Specimen Tree	Girdling roots, bad pruning, dead branches in canopy
CT-98		Morus alba	White mulberry	26	39	Poor	Significant Tree	Twin, significant crown dieback, large cavity, heavily exposed roots, vines on trunk
CT-99		Morus alba	White mulberry	43	64.5	Poor	Specimen Tree	Covered in English ivy
CT-100		Robinia pseudoacacia	Black locust	14	-	Fair/Poor	-	Significant lean, major trunk cavities, some English ivy
CT-101	X	Koelreuteria paniculata	Golden rain tree	14	-	Poor	-	May be dead. Fungal fruiting bodies, peeling bark, dead branches
CT-102	X	Koelreuteria paniculata	Golden rain tree	15	-	Fair	-	Fungal fruiting bodies, large dead branch
CT-103		Quercus phellos	Willow oak	22	-	Good	-	-
CT-104	X	Koelreuteria paniculata	Golden rain tree	21	-	Good/Fair	-	Dead branches
CT-105	X	Koelreuteria paniculata	Golden rain tree	19	-	Good/Fair	-	Exposed & girdling roots, dead branches
CT-106	X	Koelreuteria paniculata	Golden rain tree	19	-	Good/Fair	-	Minor dead branches
CT-107	X	Koelreuteria paniculata	Golden rain tree	7	-	Good/Fair	-	Multistem (5 leads), minor dead branches, sealed wound at trunk split
CT-108		Lagerstroemia indica	Crape myrtle	2	-	Good	-	-
CT-109		Lagerstroemia indica	Crape myrtle	2	-	Good	-	-
CT-110	X	Prunus sp.	Cherry sp.	14	-	Poor	-	Significant trunk cavities, included bark, suckering, pruning, dead branches
CT-111	X	Morus alba	White mulberry	16	-	Fair	-	Triplet, girdling roots, trunk wound, branches into OHU
CT-112		Magnolia virginiana	Sweetbay magnolia	13	-	Good/Fair	-	Pruning damage in lower canopy, DBH via ocular estimate
CT-113		Ilex sp.	Ilex sp.	8	-	Good	-	Multistem
CT-114		Quercus phellos	Willow oak	20	-	Good	-	-
CT-115		Prunus sp.	Cherry sp.	20	-	Fair	-	Multistem, split below DBH, heavy vine coverage, poor pruning in crown, poor growth form
CT-116		Acer rubrum	Red maple	30	45	Good/Fair	Specimen Tree	Trunk cavity
CT-117		Cercis canadensis	Eastern redbud	7	-	Good	-	-
CT-118		Quercus palustris	Pin oak	35	52.5	Good	Specimen Tree	-
CT-119		Acer rubrum	Red maple	23	-	Fair	-	Heavily pruned for power lines, sparse crown
CT-120		Acer rubrum	Red maple	30	45	Fair	Specimen Tree	Heavily pruned for power lines
CT-121		Acer rubrum	Red maple	19	-	Good/Fair	-	Dead branches, exposed roots, large pruned limb
CT-122	X	Fraxinus pennsylvanica	Green ash	19	-	Fair/Poor	-	Minor crack, trunk wound, peeling bark, fungal growth, dead and broken branches
CT-123	X	Platanus occidentalis	American sycamore	15	-	Good	-	-
CT-124	X	Platanus occidentalis	American sycamore	19	-	Good	-	-
CT-125		Quercus coccinea	Scarlet oak	28	42	Good/Fair	Significant Tree	Girdling and exposed roots
CT-126		Cladastris kentukea	Yellowwood	1	-	Good	-	-
CT-127		Koelreuteria paniculata	Golden rain tree	2	-	Good/Fair	-	Root collar damage
CT-128	X	Cladastris kentukea	Yellowwood	13	-	Fair/Poor	-	Large trunk wound, pruning in crown, dead branches, included bark
CT-129	X	Cladastris kentukea	Yellowwood	13	-	Fair	-	Dead branches, heavy pruning, sealed trunk wound
CT-130		Pyrus calleryana	Bradford pear	10	-	Good	-	-
CT-131	X	Pyrus calleryana	Bradford pear	16	-	Good	-	-
CT-132	X	Cladastris kentukea	Yellowwood	9	-	Fair/Poor	-	Significant trunk wounds, dead second leader
CT-133	X	Ailanthus altissima	Tree of heaven	26	39	Fair	Significant Tree	Split above DBH, co-dominant stems, heavy pruning
CT-134	X	Ailanthus altissima	Tree of heaven	30	45	Good	Specimen Tree	-
CT-135	X	Ailanthus altissima	Tree of heaven	17	-	Good/Fair	-	Vines, minor exposed roots
CT-136		Ulmus americana	American elm	13	-	Good/Fair	-	Slight lean, some suckering
CT-137		Tilia cordata	Little leaf linden	17	-	Fair	-	Exposed and girdling roots, dead lower branches, mower damage on exposed roots
CT-138	X	Quercus phellos	Willow oak	35	52.5	Good	Specimen Tree	Moderate pruning, minor girdling roots
CT-139		Pyrus calleryana	Bradford pear	27	40.5	Fair	Significant Tree	Large trunk cavity, exposed roots, large trunk wound, large limb pruning
CT-140		Pyrus calleryana	Bradford pear	29	43.5	Fair	Significant Tree	Trunk cavity, pruned leader
CT-141		Ulmus americana	American elm	21	-	Fair	-	Heavy lean, heavy vine coverage
CT-142		Pinus strobus	White pine	15	-	Fair	-	Heavy vine coverage
CT-143		Pinus strobus	White pine	18	-	Fair	-	Heavy vine coverage

DWG. TS-10

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NO. REVISION DATE BY	CONTRACT NO. 502003	SHEET NO. 42 OF 46



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**TREE INVENTORY TABLE**

Tree ID	Removal	Scientific Name	Common Name	DBH (inches)	CRZ (feet)	Condition	Specimen or Significant Tree	Comments
CT-144		Pinus strobus	White pine	21	-	Fair	-	Heavy vine coverage
CT-145	X	Morus alba	White mulberry	2	-	Poor	-	Pruned leader, heavy lean
CT-146	X	Fraxinus pennsylvanica	Green ash	2	-	Fair	-	Vines into canopy
CT-147	X	Fraxinus pennsylvanica	Green ash	1	-	Fair/Poor	-	Heavy vine coverage
CT-148	X	Fraxinus pennsylvanica	Green ash	6	-	Good/Fair	-	Vines into canopy
CT-149	X	Quercus palustris	Pin oak	22	-	Fair	-	Very heavily pruned
CT-150	X	Quercus palustris	Pin oak	23	23	Fair/Poor	-	Topped
CT-151	X	Quercus palustris	Pin oak	24	36	Fair/Poor	Significant Tree	Topped, exposed roots
CT-152	X	Quercus palustris	Pin oak	28	42	Good/Fair	Significant Tree	Heavy pruning on one side
CT-153	X	Pinus strobus	White pine	18	-	Fair	-	Dead branches in canopy, girdling roots, uneven canopy
CT-154		Pinus strobus	White pine	17	-	Fair	-	Minor vines, dead branches in mid canopy
CT-155		Pinus strobus	White pine	24	36	Fair	Significant Tree	Heavy vine coverage, dead branches
CT-156		Prunus sp.	Cherry sp.	1	-	Fair	-	Multistem, poor growth form
CT-157		Prunus sp.	Cherry sp.	3	-	Poor	-	Mostly dead, multistem
CT-158		Picea abies	Norway spruce	20	-	Fair	-	One sided, exposed roots
CT-159	X	Acer rubrum	Red maple	25	37.5	Fair	Significant Tree	Large trunk cavity, large dead branch, heavy pruning in canopy
CT-160		Acer rubrum	Red maple	27	40.5	Good	Significant Tree	Large grass clipping mulch volcano
CT-161		Acer rubrum	Red maple	30	45	Good/Fair	Specimen Tree	Pruned secondary leader
CT-162		Acer rubrum	Red maple	28	42	Poor	Significant Tree	Very large cavity in upper trunk, leader may snap soon
CT-163		Acer rubrum	Red maple	21	-	Fair	-	Main leader pruned, large dead branch
CT-164		Acer palmatum	Japanese maple	1	-	Fair	-	Cicada damage on branches
CT-165		Prunus sp.	Cherry sp.	1	-	Fair	-	Cicada damage on leader
CT-166		Lagerstroemia indica	Crape myrtle	5	-	Good	-	Multistem
CT-167		Picea abies	Norway spruce	11	-	Poor	-	Sparse crown, very heavy vines
CT-168		Acer rubrum	Red maple	36	54	Fair	Specimen Tree	Dead second leader, vines into canopy, DBH estimated, on private property
CT-169		Acer rubrum	Red maple	40	60	Good	Specimen Tree	Trunk cankers, minor dead branches, DBH estimated, on private property
CT-170		Acer rubrum	Red maple	31	46.5	Good	Specimen Tree	-
CT-171		Koelreuteria paniculata	Golden rain tree	2	-	Fair	-	Topped, cicada damage on branches
CT-172		Koelreuteria paniculata	Golden rain tree	2	-	Fair	-	Topped, cicada damage on branches
CT-173		Koelreuteria paniculata	Golden rain tree	3	-	Fair	-	Topped, cicada damage on branches
CT-174		Lagerstroemia indica	Crape myrtle	2	-	Good	-	Multistem
CT-175		Pinus strobus	White pine	45	67.5	Good	Specimen Tree	-
CT-176		Pinus strobus	White pine	50	75	Fair	Specimen Tree	Large pruned branch on lower trunk with minor decay
CT-177		Pinus strobus	White pine	23	-	Good	-	-
CT-178		Acer rubrum	Red maple	34	51	Good/Fair	Specimen Tree	Significant exposed roots
CT-179		Pinus strobus	White pine	38	57	Good	Specimen Tree	-
CT-180		Pinus strobus	White pine	37	55.5	Good/Fair	Specimen Tree	Uneven canopy, slight lean
CT-181		Koelreuteria paniculata	Golden rain tree	1	-	Good/Fair	-	Trunk wound, cicada damage on branches
CT-182		Pinus strobus	White pine	37	55.5	Good/Fair	Specimen Tree	One sided canopy, exposed roots
CT-183		Pinus strobus	White pine	24	36	Good	Significant Tree	Slight lean
CT-184		Koelreuteria paniculata	Golden rain tree	1	-	Good/Fair	-	Cicada damage on branches
CT-185		Acer rubrum	Red maple	28	42	Good	Significant Tree	-
CT-186		Pinus strobus	White pine	34	51	Good	Specimen Tree	Co-dominant stems
CT-187	X	Picea abies	Norway spruce	20	-	Good	-	Minor mower damage on exposed roots
CT-188	X	Prunus sp.	Cherry sp.	13	-	Fair	-	Fungal fruiting bodies, multistem below DBH
CT-189		Picea pungens	Blue spruce	9	-	Fair	-	Sparse canopy
CT-190		Quercus palustris	Pin oak	33	49.5	Good	Specimen Tree	Minor trunk cracks sealed over
CT-191	X	Acer rubrum	Red maple	17	-	Good	-	-

DWG. TS-11



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 PRIORITY AREA – CENTRAL SECTOR

PRELIMINARY TREE SAVE DETAILS AND NOTES  
 BASE MAP # \_\_\_\_\_ TAX MAP # \_\_\_\_\_  
 SCALE \_\_\_\_\_ DATE JUNE 2022

NO.	REVISION	DATE	BY	DESIGNED BY <u>KR</u>	DRAWN BY <u>NLB</u>	CHECKED BY <u>MH</u>	CONTRACT NO. 502003	SHEET NO. <u>43</u> OF <u>46</u>
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**TREE INVENTORY TABLE**

Tree ID	Removal	Scientific Name	Common Name	DBH (inches)	CRZ (feet)	Condition	Specimen or Significant Tree	Comments
CT-192		Pinus strobus	White pine	35	52.5	Good	Specimen Tree	-
CT-193		Acer rubrum	Red maple	28	42	Good	Significant Tree	DBH estimated due to construction activities
CT-194		Acer rubrum	Red maple	29	43.5	Good/Fair	Significant Tree	Dead and pruned significant branches, sealing wounds on trunk from branch removal
CT-195		Pinus strobus	White pine	35	52.5	Good	Specimen Tree	-
CT-196		Pinus nigra	Austrian pine	7	-	Good/Fair	-	Minor dead branches
CT-197		Platanus occidentalis	American sycamore	20	-	Good/Fair	-	Pruned leader
CT-198		Platanus occidentalis	American sycamore	18	-	Good/Fair	-	Pruned leader
CT-199		Platanus occidentalis	American sycamore	19	-	Good/Fair	-	Pruned leader
CT-200		Platanus occidentalis	American sycamore	16	-	Good/Fair	-	Pruned leader
CT-201		Platanus occidentalis	American sycamore	14	-	Good/Fair	-	Pruned leader
CT-202		Pinus strobus	White pine	25	37.5	Good	Significant Tree	-
CT-203		Juniperus virginiana	Eastern red cedar	13	-	Good	-	DBH estimated, on private property
CT-204		Acer rubrum	Red maple	24	36	Good	Significant Tree	DBH estimated, on private property
CT-205		Acer rubrum	Red maple	30	45	Fair	Specimen Tree	Vines on trunk, second leader heavily pruned, slight lean, utility lines through branches, DBH estimated, on private property
CT-206		Cornus florida	Flowering dogwood	7	-	Good/Fair	-	Minor cavity in trunk, pruning in crown
CT-207		Acer rubrum	Red maple	20	-	Good/Fair	-	Co-dominant stem, trunk wound by encircling cable, DBH estimated, on private property
CT-208		Platanus occidentalis	American sycamore	43	64.5	Good	Specimen Tree	-
CT-209		Acer rubrum	Red maple	24	36	Good	Significant Tree	Co-dominant stem, DBH estimated, on private property
CT-210		Platanus occidentalis	American sycamore	38	57	Good/Fair	Specimen Tree	Old trunk wounds
CT-211		Pinus strobus	White pine	18	-	Good	-	-
CT-212		Cercis canadensis	Eastern redbud	1	-	Good/Fair	-	Cicada damage on branches
CT-213		Acer rubrum	Red maple	11	-	Good	-	DBH estimated, on private property
CT-214		Acer rubrum	Red maple	24	36	Good/Fair	Significant Tree	Slight lean, possible trunk wounds, DBH estimated, on private property
CT-215		Cercis canadensis	Eastern redbud	1	-	Fair	-	Cicada damage on branches
CT-216		Acer palmatum	Japanese maple	3	-	Good	-	-
CT-217		Acer rubrum	Red maple	1	-	Fair	-	Cicada damage
CT-218		Acer palmatum	Japanese maple	10	-	Good	-	Multistem, splits below DBH
CT-219		Acer saccharinum	Silver maple	32	-	Fair	Specimen Tree	Pruning in crown, multistem, splits at DBH, DBH estimated, on private property
CT-220		Magnolia virginiana	Sweetbay magnolia	12	-	Good	-	Multistem, splits below DBH
CT-222		Magnolia grandiflora	Southern magnolia	7	-	Good	-	-
CT-223		Ginkgo biloba	Ginkgo	30	45	Good/Fair	Specimen Tree	Minor vines, heavy pruning on one side, co-dominant stems, DBH estimated, on private property
CT-224		Ulmus americana	American elm	11	-	Good	-	Multistem, splits below DBH
CT-225		Prunus sp.	Cherry sp.	14	-	Fair	-	Multistem, main stem pruned, pruning in canopy
CT-226		Acer rubrum	Red maple	24	36	Poor	Significant Tree	Large cavity in trunk, lean, DBH estimated, on private property
CT-227		Acer rubrum	Red maple	22	-	Poor	-	Main trunk dead, some surviving suckering branches
CT-228		Fraxinus pennsylvanica	Green ash	28	42	Fair	Significant Tree	Heavy vine coverage on trunk, multistem, DBH estimated, on private property
CT-229	X	Cornus florida	Flowering dogwood	10	-	Good	-	Co-dominant stems, minor dead branches
CT-230		Acer rubrum	Red maple	30	45	Fair	Specimen Tree	Dead branches in canopy, cavity at base of trunk, co-dominant stems, pruned leader, DBH estimated, on private property
CT-231	X	Cercis canadensis	Eastern redbud	1	-	Fair	-	Cicada damage
CT-232	X	Cercis canadensis	Eastern redbud	1	-	Fair	-	Cicada damage
CT-233	X	Cornus florida	Flowering dogwood	12	-	Good/Fair	-	Multistem, dead secondary leader
CT-234	X	Fraxinus pennsylvanica	Green ash	20	-	Poor	-	Possibly dead. Visible emerald ash borer damage
CT-235		Cornus florida	Flowering dogwood	9	-	Fair	-	Cavity in trunk
CT-236	X	Fraxinus pennsylvanica	Green ash	21	-	Poor	-	Poor growth form, vines up trunk, heavily pruned, large trunk wound, co-dominant stems
CT-237	X	Sassafras albidum	Sassafras	21	-	Good	-	-
CT-238	X	Fraxinus pennsylvanica	Green ash	14	-	Poor	-	Heavy vines, topped
CT-239	X	Fraxinus pennsylvanica	Green ash	12	-	Poor	-	Heavy vines, topped

DWG. TS-12

OWNER / ADDRESS:  
 MATT JOHNSON  
 MONTGOMERY COUNTY  
 DEPARTMENT OF TRANSPORTATION  
 100 EDISON PARK DRIVE  
 GAITHERSBURG, MARYLAND

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 ENGINEERING  
 240-777-7237

MONTGOMERY COUNTY  
 DEPARTMENT OF TRANSPORTATION  
 ROCKVILLE, MARYLAND

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 Chief, Division of Transportation Engineering

MONTGOMERY COUNTY  
 DEPARTMENT OF TRANSPORTATION  
 DIVISION OF TRANSPORTATION ENGINEERING  
 MD 586/VEIRS MILL BIKE AND PEDESTRIAN  
 PRIORITY AREA – CENTRAL SECTOR

PRELIMINARY TREE SAVE DETAILS AND NOTES  
 BASE MAP # \_\_\_\_\_ TAX MAP # \_\_\_\_\_  
 SCALE \_\_\_\_\_ DATE JUNE 2022

CONTRACT NO. 502003 SHEET NO. 44 OF 46



**Rummel, Klepper & Kahl, LLP**  
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P:\ATTEN - 6/26/2022  
 FILE: \\vkkccom\1\A\Users\Projects\2020\20077\_MCDOT\Temp\Task\_12 - Veirs Mill BRTPA - CentralSector\CADD\Plan\TS-12\_VeirsMill-Central.dgn

**TREE INVENTORY TABLE**

Tree ID	Removal	Scientific Name	Common Name	DBH (inches)	CRZ (feet)	Condition	Specimen or Significant Tree	Comments
T18		Platanus occidentalis	American sycamore	39	58.5	Good	Specimen Tree	Minor pruning and water sprouts
T19		Pinus nigra	Austrian pine	6	-	Fair	-	Splits below DBH, heavy lean, branch dieback
T20		Liriodendron tulipifera	Tulip poplar	37	55.5	Good	Specimen Tree	Minor vines
T21		Pinus strobus	White pine	26	39	Good	Significant Tree	-
T22		Liriodendron tulipifera	Tulip poplar	25	37.5	Good	Significant Tree	-
T35		Malus sp.	Crabapple sp.	7	-	Good/Fair	-	Suckering, interfering branches
T36		Acer rubrum	Red maple	17	-	Fair	-	Buttressed roots, included bark
T37		Acer rubrum	Red maple	17	-	Fair	-	Girdling roots, interfering branches, sapsucker damage
T38		Acer rubrum	Red maple	15	-	Fair	-	Minor girdling roots, desiccated trunk
T39		Malus sp.	Crabapple sp.	10	-	Fair	-	Splits below DBH, interfering branches, suckering
T40	X	Cedrus atlantica 'Glauca'	Blue atlas cedar	14	-	Excellent	-	-
T41	X	Pinus strobus	White pine	35	52.5	Fair	Specimen Tree	Trunk cavity, abscission of lower branches
T42		Pinus strobus	White pine	26	39	Fair/Poor	Significant Tree	Broken leader, dead branches
T50		Malus sp.	Crabapple sp.	5	-	Good	-	-
T275		Lagerstroemia indica	Crape myrtle	3	-	Good/Fair	-	Multistem, trunk wounds at base healing
T276	X	Cladastris kentukea	Yellowwood	14	-	Fair	-	Minor trunk wound rotting, included bark, water sprouts
T277	X	Magnolia sp.	Magnolia sp.	5	-	Fair	-	Ornamental sp, multistem, water sprouts
T278	X	Magnolia sp.	Magnolia sp.	4	-	Fair	-	Ornamental sp, multistem, water sprouts, minor vines
T279	X	Magnolia sp.	Magnolia sp.	4	-	Fair	-	Ornamental sp, multistem, water sprouts
T283		Acer rubrum	Red maple	4	-	Good	-	-
T284		Acer rubrum	Red maple	4	-	Good	-	-
T285		Acer rubrum	Red maple	4	-	Good	-	-
T367		Platanus occidentalis	American sycamore	18	-	Good/Fair	-	Utility pruning
T380		Cedrus atlantica 'Glauca'	Blue atlas cedar	11	-	Good	-	-
T381		Cedrus atlantica 'Glauca'	Blue atlas cedar	12	-	Good	-	-

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DWG. TS-13

**RK&K**  
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 ENGINEERING  
 240-777-7237

NO.	REVISION	DATE	BY

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 ROCKVILLE, MARYLAND

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 Chief, Transportation Planning and Design Section

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 Chief, Division of Transportation Engineering

DESIGNED BY KR DRAWN BY NLB CHECKED BY MH

MONTGOMERY COUNTY  
 DEPARTMENT OF TRANSPORTATION  
 DIVISION OF TRANSPORTATION ENGINEERING  
 MD 586/VEIRS MILL BIKE AND PEDESTRIAN  
 PRIORITY AREA - CENTRAL SECTOR

PRELIMINARY TREE SAVE DETAILS AND NOTES  
 BASE MAP # \_\_\_\_\_ TAX MAP # \_\_\_\_\_  
 SCALE \_\_\_\_\_ DATE JUNE 2022

CONTRACT NO. 502003 SHEET NO. 45 OF 46

GRADING TABLE									
ROADWAY		CLASS 1 EXCAVATION							EMBANKMENT
		CUT FROM		TOPSOIL		TOTAL	SUITABLE FOR EMBANK.	SHRINK/SWELL FACTOR (%)	AVAIL. FOR EMBANK.
FROM	TO	XSECTS	CUT	FILL	C.Y.				
		C.Y.	C.Y.	C.Y.	C.Y.	C.Y.	C.Y.	C.Y.	C.Y.
VEIRS MILL RD									
304+00	335+00	1,570	0	0	1,750	0	0	0	217
RANDOLPH RD									
501+50	517+50	457	0	0	457	0	0	0	169
FERRARA AVE									
602+50	606+00	54	0	0	54	0	0	0	17

## SUMMARY OF EARTHWORK

**EXCAVATION**

TOTAL CLASS I EXCAVATION .....	2,081	C.Y.
TOTAL CLASS I-A EXCAVATION .....	100	C.Y.
TOTAL TEST PIT EXCAVATION .....	100	C.Y.
TOTAL EXCAVATION AVAILABLE FOR EMBANKMENT .....	0	C.Y.
TOTAL EROSION & SEDIMENT CONTROL EXCAVATION .....	0	C.Y.

**EMBANKMENT**

COMMON BORROW REQUIRED .....	403	C.Y.
BORROW DENSIFIED (20%) .....	81	C.Y.
TOTAL COMMON BORROW REQUIRED .....	484	C.Y.

**PROPOSAL QUANTITIES**

CLASS I EXCAVATION .....	2,100	C.Y.
CLASS I-A EXCAVATION .....	100	C.Y.
TEST PIT EXCAVATION .....	100	C.Y.
COMMON BORROW .....	500	C.Y.
SELECT BORROW (FOR CLASS I-A REFILL) .....	100	C.Y.

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 DESIGN SECTION  
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Chief, Transportation Planning and Design Section

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Chief, Division of Transportation Engineering

DESIGNED BY JPS DRAWN BY JPS CHECKED BY CJB

MONTGOMERY COUNTY  
 DEPARTMENT OF TRANSPORTATION  
 DIVISION OF TRANSPORTATION ENGINEERING  
 MD 586/VEIRS MILL ROAD BIKE AND  
 PEDESTRIAN PRIORITY AREA –  
 CENTRAL SECTOR  
 GRADING TABLE AND SUMMARY OF EARTHWORK  
 SCALE \_\_\_\_\_ DATE JUNE 2022

CONTRACT NO. 502003 SHEET NO. 46 OF 46

DWG. GR-01

**MONTGOMERY COUNTY  
DEPARTMENT OF TRANSPORTATION**

**MD 586 (VEIRS MILL ROAD) BIKE  
AND PEDESTRIAN PRIORITY AREA  
- EASTERN SECTOR  
C.I.P. CONTRACT NO. 502003**

**INDEX OF SHEETS**

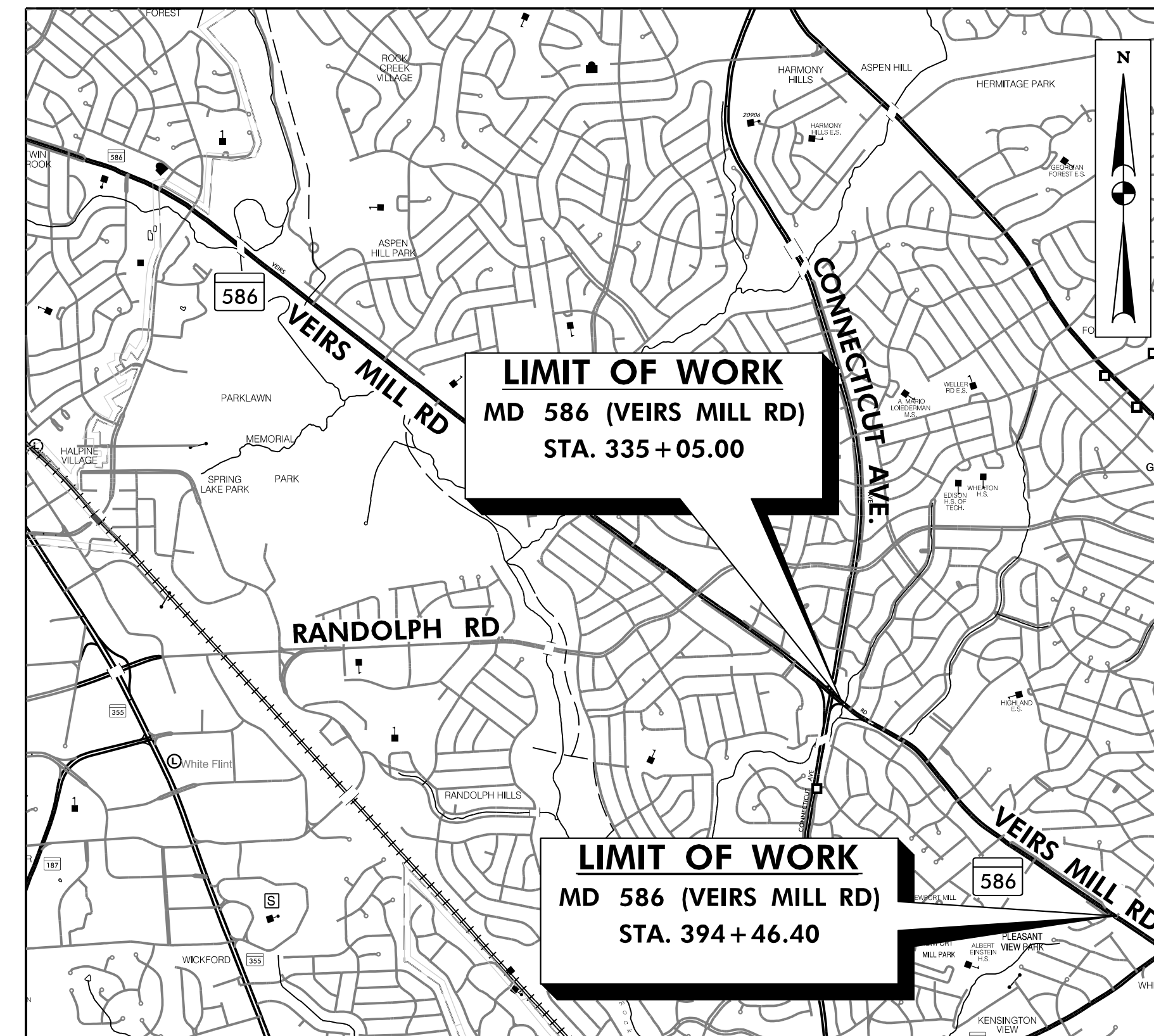
SHEET NO.	DRAWING NO.	SHEET NAME
1	TS-01	TITLE SHEET
2	AB-01	GENERAL NOTES, ABBREVIATIONS AND SYMBOLS
3-5	HT-01 TO HT-03	TYPICAL SECTIONS
6	DE-01	ROADWAY AND PAVEMENT DETAILS
7-8	GS-01 TO GS-02	GEOMETRY SHEETS
9-19	HD-01 TO HD-11	ROADWAY PLANS
20-26	MT-01 TO MT-07	MAINTENANCE OF TRAFFIC PLAN
27-31	SN-01 TO SN-05	SIGNING AND PAVEMENT MARKING PLANS
32-36	LT-01 TO LT-05	LIGHTING PLANS
37-49	TS-01 TO TS-13	PRELIMINARY TREE SAVE PLAN
50	GT-01	EARTHWORK AND GRADING TABLE

**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 M-NCPPC PROPERTY AT THEIR EXPENSE. ALL UTILITIES SHOWN ON THE PLANS ARE PROVIDED FOR INFORMATION ONLY AND SHALL BE CONSIDERED APPROXIMATE. M-NCPPC 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.

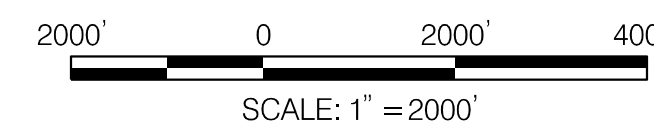
DESIGN DESIGNATION	
ROADWAY	MD 586
ROADWAY LENGTH (MILES)	1.10
CONTROLS YEARS	-
AVERAGE DAILY TRAFFIC (A.D.T.)	-
DESIGN HOURLY VOLUME (D.H.V.)	-
DIRECTIONAL DISTRIBUTION	-
% TRUCKS (A.D.T.)	-
% TRUCKS (D.H.V.)	-
FUNCTIONAL CLASSIFICATION	PRINCIPAL ARTERIAL
CONTROL OF ACCESS	NONE
INTENSITY OF DEVELOPMENT	URBAN
TERRAIN	ROLLING
DESIGN SPEED (M. P. H.)	35 MPH
ANTICIPATED POSTED SPEED (M. P. H.)	35 MPH



MONTGOMERY COUNTY

LENGTH OF PROJECT:  
MD RTE. 586 = 1.1 MILES

HORIZONTAL DATUM	NAD 83 /91
VERTICAL DATUM	NAVD 88



RELATED REQUIRED PERMITS					
To be completed by the consultant and placed on the first sheet of the Sediment Control/Stormwater Management plan set for all projects					
IT IS THE RESPONSIBILITY OF PERMITTEE/OWNER OF THIS SITE TO OBTAIN ALL REQUIRED PERMITS PRIOR TO ISSUANCE OF THE APPROVED SEDIMENT CONTROL PERMIT:					
TYPE OF PERMIT	REQ'D	NOT REQ'D	PERMIT NO.	EXPIRATION DATE	WORK RESTRICTION DATES
MCDPS Floodplain district		x			
WATERWAYS/WETLAND(S)	x				
a. Corps of Engineers					
b. MDE	x				
c. MDE Water Quality Certification		x			
MDE Dam Safety		x			
*DPS Roadside Trees Protection Plan	x				
NPDES NOTICE OF INTENT	x				
FEMA LOMR (Required post construction)		x			
OTHERS (Please List):					
MNCPPC Park Construction Permit		x			
WSSC	x				
Montgomery County Tree Canopy Conservation Law Approval	x				

\*A copy of the approved Roadside Trees Protection Plan must be delivered to the sediment control inspector at the preconstruction meeting

**35% DESIGN REVIEW  
JUNE 27, 2022  
NOT FOR CONSTRUCTION**

MONTGOMERY COUNTY DEPARTMENT OF PERMITTING SERVICES APPROVED FOR:

STORMWATER MANAGEMENT	SEDIMENT CONTROL TECHNICAL REQUIREMENTS:	ADMINISTRATIVE REQUIREMENTS:
_____	_____	REVIEWED _____ DATE _____
REVIEWED _____ DATE _____	REVIEWED _____ DATE _____	SEDIMENT CONTROL PERMIT NO. _____
APPROVED _____ DATE _____	APPROVED _____ DATE _____	MCDPS APPROVAL OF THIS PLAN WILL EXPIRE ONE YEAR FROM THE DATE OF APPROVAL IF THE PROJECT HAS NOT STARTED, UNLESS THE PERMIT HAS BEEN EXTENDED.
S.M.FILE NO. _____		

DPS approval of a sediment control or stormwater management plan is for demonstrated compliance with minimum environmental runoff treatment standards and does not create or imply any right to divert or concentrate runoff onto any adjacent property without that property owner's permission. It does not relieve the design engineer or other responsible person of professional liability or ethical responsibility for the adequacy of the drainage design as it affects uphill or downhill properties.

SEAL: 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. XXXXX, EXPIRATION DATE: XXXX/XXXX

OWNER/ADDRESS:  
MONTGOMERY COUNTY  
DEPARTMENT OF TRANSPORTATION  
100 EDISON PARK DRIVE  
GAITHERSBURG, MARYLAND

CONTACT:  
DIVISION OF TRANSPORTATION  
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DESIGN SECTION  
240-777-7221

MONTGOMERY COUNTY  
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ROCKVILLE, MARYLAND

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MONTGOMERY COUNTY  
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DIVISION OF TRANSPORTATION ENGINEERING  
MD 586 (VEIRS MILL RD) BIKE  
AND PEDESTRIAN PRIORITY AREA -  
EASTERN SECTOR  
TITLE SHEET

SCALE 1"=2000' DATE JUNE 2022

CONTRACT NO. 502003 SHEET NO. 1 OF 50

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**ABBREVIATIONS**

A.A.S.H.T.O... American Association of State Highway Transportation Officials	IN ..... Inch	S ..... South
AC ..... Acre	I.S.T..... Inlet Sediment Trap	SAN..... Sanitary Sewer
ADT..... Average Daily Traffic	INV..... Invert	SB or SB..... Southbound
AHD..... Ahead	J.B..... Junction Box	S.D..... Storm Drain
APPROX..... Approximate	K ..... K Inlet	S.D.D..... Surface Drain Ditch
± or B/L..... Baseline	LN..... Lane	SE ..... Super Elevation
BK..... Back / Book	L ..... Length	SF ..... Silt Fence
BIT..... Bituminous	L.F..... Linear Feet	S.F..... Square Feet
B.C..... Bituminous Concrete	L.L..... Liquid Limit	SHT..... Sheet
B.M..... Bench Mark	L.P..... Light Pole	S.P.P..... Structural Plate Pipe
BLVD..... Boulevard	LT..... Left	S.P.T..... Standard Penetration Testing
BOT..... Bottom	MAC..... Macadam	SSD..... Stopping Sight Distance
C.C..... Center of Curve	MD..... Maryland	SSF..... Super Silt Fence
CATV..... Cable Television	M.C..... Moisture Content	STD..... Standard
C.B.R..... California Bearing Ratio	MAX..... Maximum	STA..... Station
C or CL..... Centerline	M.D.D..... Maximum Dry Content	ST ..... Street
QIR ..... Circle	MOD..... Modified	SO ..... Single Opening
CL..... Class	MIN..... Minimum	S.Y..... Square Yards
CLF..... Chainlink Fence	N ..... North	SWM..... Stormwater Management
CMP..... Corrugated Metal Pipe	N.B. or NB..... Northbound	T..... Tangent
C.O..... Cleanout	N.E..... Northeast	T..... Telephone
COMB..... Combination	N.P..... Non-Plastic	T/C ..... Top of Curb
CONC..... Concrete	O.C..... On Center	T.C..... Top of Cover
CONSTR..... Construction	OHE..... Overhead Electric	T.G..... Top of Grate
COR..... Corner	O.M..... Optimum Moisture	T or TL..... Traverse Line
CORR..... Correction	PAV'T..... Pavement	T.M..... Top of Manhole
DC..... Degree of Curve	P.C..... Point of Curvature	TRAV..... Traverse
D.H.V..... Design Hourly Volume	P.C.C..... Point of Compound Curvature	TS ..... Temporary Swale
D.I..... Drop Inlet	P.C..... Point of Crown	T.S..... Top of Slab
DIA..... Diameter	PGE..... Profile Grade Elevation	T.S..... Topsoil
D.O..... Double Opening	P.G.L..... Profile Grade Line	TYP..... Typical
DR..... Drive	P/GL..... Profile Ground Line	U.D..... Under Drain
DS..... Design Speed	PR..... Point of Rotation	U.G..... Underground
DWS..... Detectable Warning Surface	P.I..... Plasticity Index	U.P..... Utility Pole
E ..... East	P.I..... Point of Intersection	U.S.D.A. United States Department of Agriculture
E ..... Electric	P.O.C..... Point On Curve	VCL ..... Vertical Clearance
E ..... External Distance	P.O.T..... Point On Tangent	V.C.L..... Vertical Curve Length
EA..... Each	PROP..... Proposed	W..... Water
E.B..... Eastbound	P.R.C..... Point of Reverse Curve	W ..... West
ELEV..... Elevation	PT..... Point	W ..... Westbound
E.R.C.C.P..... Elliptical Reinforced Concrete Pipe	P.T..... Point of Tangency	W.B..... Wetland Buffer
ES ..... End Section	P.V.C..... Point of Vertical Curve	W.M..... Water Meter
ESDV..... Runoff Volume	PVC..... Polyvinyl Chloride	W.S..... Wrapped Steel
EX. or EXIST..... Existing	PVI..... Point of Vertical Intersection	W.V..... Water Valve
FT..... Feet	PVRC..... Point of Vertical Reverse Curve	WWF..... Welded Wire Mesh
F or FL..... Flowline	PVT..... Point of Vertical Tangency	
F.B.D..... Flat Bottom Ditch	R ..... Radius	
F.H..... Fire Hydrant	RD..... Road	
FWD..... Forward	R.F..... Rock Fragments	
FC..... Face of Curb	RT..... Right	
G ..... Gas	RW or RW... Right of Way	
G.V..... Gas Valve	R.C.P..... Reinforced Concrete Pipe	
GAB..... Graded Aggregate Base	R.C.C.P..... Reinforced Cement Concrete Pipe	
H.B..... Handbox	RET..... Retaining	
H.D.P..... High Density Polyethylene	R.Q.D..... Rock Quality Designation	
HDWL..... Headwall	R.M..... Rootmat	
H.E.R.C.P..... Horizontal Elliptical Reinforced Concrete Pipe		
HLSD..... Headlight Sight Distance		
H.P..... High Point		

**CONVENTIONAL SYMBOLS**

PROPOSED MEDIAN BARRIER		PROPOSED PIPE / CULVERT	
ELECTRICAL HAND BOX - SIGNALS		EXISTING PIPE / CULVERT	
DITCH FLOW LINE		EXISTING DROP INLET	
STATE, COUNTY OR CITY LINES		UTILITY POLE	
PROPOSED TRAFFIC BARRIER		WETLAND BOUNDARY	
EXISTING TRAFFIC BARRIER		WETLAND BUFFER	
PROPOSED FENCE LINE		WATERS OF THE U.S.	
EXISTING FENCE LINE		STREAMS	
RIGHT OF WAY LINE		HEDGE / TREE LINE	
EXISTING ROADWAY		BUSH / TREE	
RAILROAD		CONIFEROUS TREE	
BASE LINE OR SURVEY LINE		GROUND ELEVATION	
FIRE HYDRANT		GRADE ELEVATION	
HISTORIC DISTRICT BOUNDRY		PROPOSED RETAINING WALL	
UTILITY TEST HOLE TARGET			
DRILLED SHAFT LOCATION			

**GENERAL NOTES**

- ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE MARYLAND STATE HIGHWAY ADMINISTRATION'S STANDARD SPECIFICATIONS FOR CONSTRUCTION AND MATERIALS 2018 AND BOOK OF STANDARDS FOR HIGHWAYS & INCIDENTAL STRUCTURES, THE MONTGOMERY COUNTY DEPARTMENT OF TRANSPORTATION STANDARDS, AND THE MARYLAND MUTCD.
- HORIZONTAL DATUM IS BASED ON NAD 83/2011 AND VERTICAL DATUM IS BASED ON NAVD 88.
- ALL UTILITY RELOCATIONS SHALL BE PERFORMED BY OTHERS. IT IS THE CONTRACTOR'S RESPONSIBILITY TO COORDINATE WITH UTILITY OWNERS TO ENSURE PENDING UTILITY RELOCATIONS DO NOT AFFECT THE SCHEDULE'S CRITICAL PATH.
- CALL "MISS UTILITY" AT 1-800-257-7777, 48 HOURS PRIOR TO THE START OF WORK. THE EXCAVATOR MUST NOTIFY ALL PUBLIC UTILITY COMPANIES WITH UNDER GROUND FACILITIES IN THE AREA OF PROPOSED EXCAVATION AND HAVE THOSE FACILITIES LOCATED BY THE UTILITY COMPANIES PRIOR TO COMMENCING EXCAVATION. THE EXCAVATOR IS RESPONSIBLE FOR COMPLIANCE WITH REQUIREMENTS OF CHAPTER 36A OF THE MONTGOMERY COUNTY CODE.
- INFORMATION CONCERNING UNDERGROUND UTILITIES WAS OBTAINED FROM AVAILABLE RECORDS AND UTILITY DESIGNATING, BUT THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATIONS AND ELEVATIONS OF THE LINES BY DIGGING TEST PITS BY HAND OR VACUUM EXCAVATIONS/ SOFT DIG METHODS AT ALL UTILITY CROSSINGS, WELL IN ADVANCE OF TRENCHING. IF CLEARANCES ARE LESS THAN TWELVE (12) INCHES, CONTACT MONTGOMERY COUNTY DEPARTMENT OF TRANSPORTATION'S PROJECT INSPECTOR AND THE APPROPRIATE UTILITY OWNER BEFORE PROCEEDING WITH CONSTRUCTION.
- REPAIRS TO UTILITIES OR PROPERTY DAMAGE AS A RESULT OF THE CONTRACTOR'S NEGLIGENCE OR METHOD OF OPERATION SHALL BE MADE AT THE CONTRACTOR'S EXPENSE BEFORE PROCEEDING WITH CONSTRUCTION.
- GRADING SHALL BE DONE IN SUCH A MANNER AS TO PROVIDE POSITIVE DRAINAGE.
- SAW CUTS WILL NOT BE MEASURED BUT WILL BE INCIDENTAL TO OTHER RELATED ITEMS AS SPECIFIED IN THE CONTRACT DOCUMENTS.
- THE CONTRACTOR SHALL MAINTAIN PEDESTRIAN AND VEHICULAR ACCESS TO ALL PROPERTIES WITHIN THE PROJECT LIMITS AND SHALL COORDINATE WITH PROPERTY OWNERS TO MAINTAIN INGRESS/EGRESS DURING THE ENTIRE PERIOD OF CONSTRUCTION.
- REFER TO THE CONTRACT DOCUMENTS FOR ROADWAY BORING, SOIL BORING, AND INFILTRATION TESTING DATA SHEETS.
- RIGHT OF WAY LINES SHOWN ON THE PLANS ARE SURVEYED METES AND BOUNDS PROPERTY LINES. FOR RIGHT OF WAY ACQUISITIONS PLEASE SEE APPROPRIATE RIGHT OF WAY PLAT.
- CONTRACTOR SHALL COORDINATE RELOCATION OF ALL EXISTING BUS STOPS WITH WAYNE MILLER, MCDOT DIVISION OF TRANSIT SERVICES AT 240-777-5836.
- EXISTING CURB AND GUTTER AND SIDEWALK WITHIN THE LOD, NOT SHOWN AS REPLACEMENT ON THE CV DRAWINGS, IS NOT INTENDED TO BE DISTURBED AND REPLACED AS PART OF THE PROJECT. CONTRACTOR SHOULD EXERCISE CAUTION TO NOT DAMAGE CURB AND SIDEWALK. DAMAGE BEYOND WHAT IS SHOWN AS REPLACEMENT IN THE CV DRAWINGS SHALL BE REPLACED BY THE CONTRACTOR AT THE CONTRACTOR'S OWN EXPENSE. CONTINGENCIES HAVE BEEN INCLUDED FOR MINIMAL ADDITIONAL DISTURBANCE TO THESE ITEMS.

P:\ATTN: 6/26/2022  
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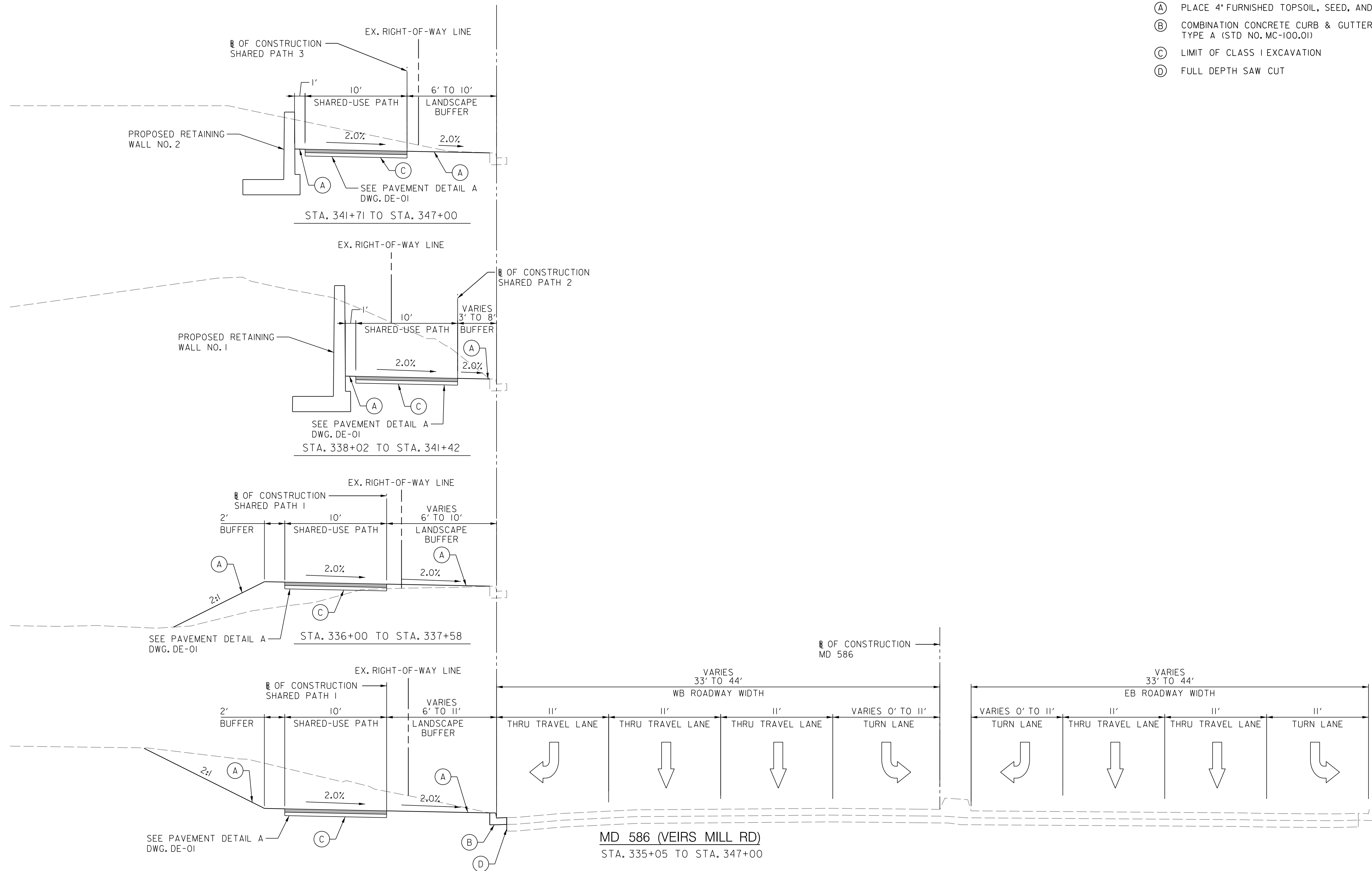
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 MD 586 (VEIRS MILL RD) BIKE  
 AND PEDESTRIAN PRIORITY AREA -  
 EASTERN SECTOR  
 GENERAL NOTES, ABBREVIATIONS & SYMBOLS  
 SCALE NO SCALE DATE JUNE 2022

CONTRACT NO. 502003 SHEET NO. 2 OF 50

DWG. GN-01

TYPICAL SECTION LEGEND

- (A) PLACE 4" FURNISHED TOPSOIL, SEED, AND MULCH.
- (B) COMBINATION CONCRETE CURB & GUTTER - TYPE A (STD NO. MC-100.01)
- (C) LIMIT OF CLASS I EXCAVATION
- (D) FULL DEPTH SAW CUT



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 MD 586 (VEIRS MILL RD) BIKE  
 AND PEDESTRIAN PRIORITY AREA -  
 EASTERN SECTOR  
 TYPICAL SECTIONS

SCALE NO SCALE DATE JUNE 2022

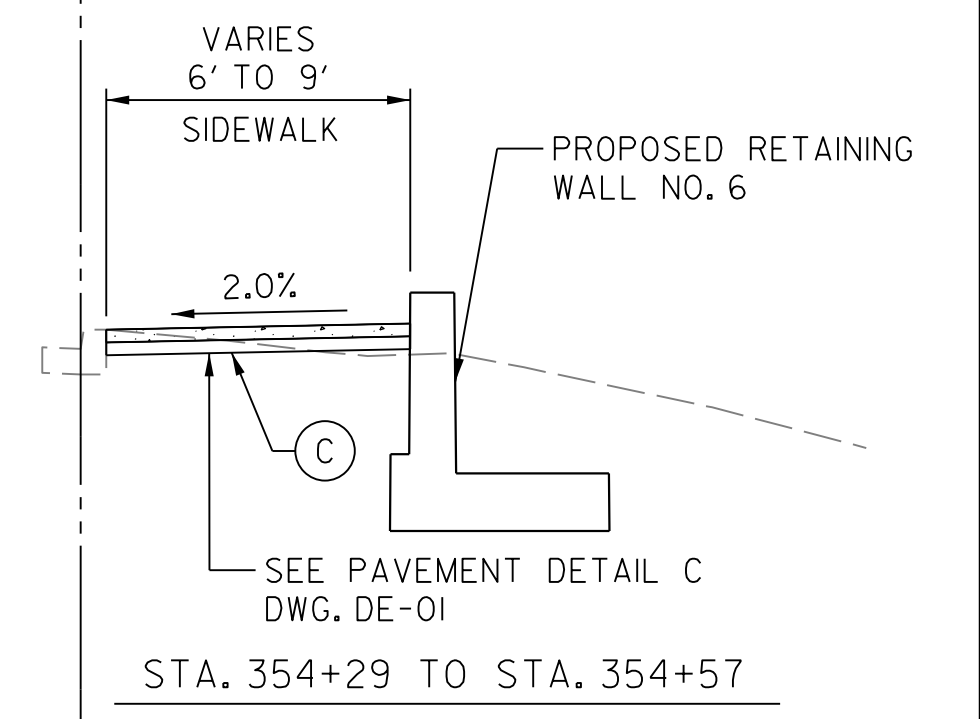
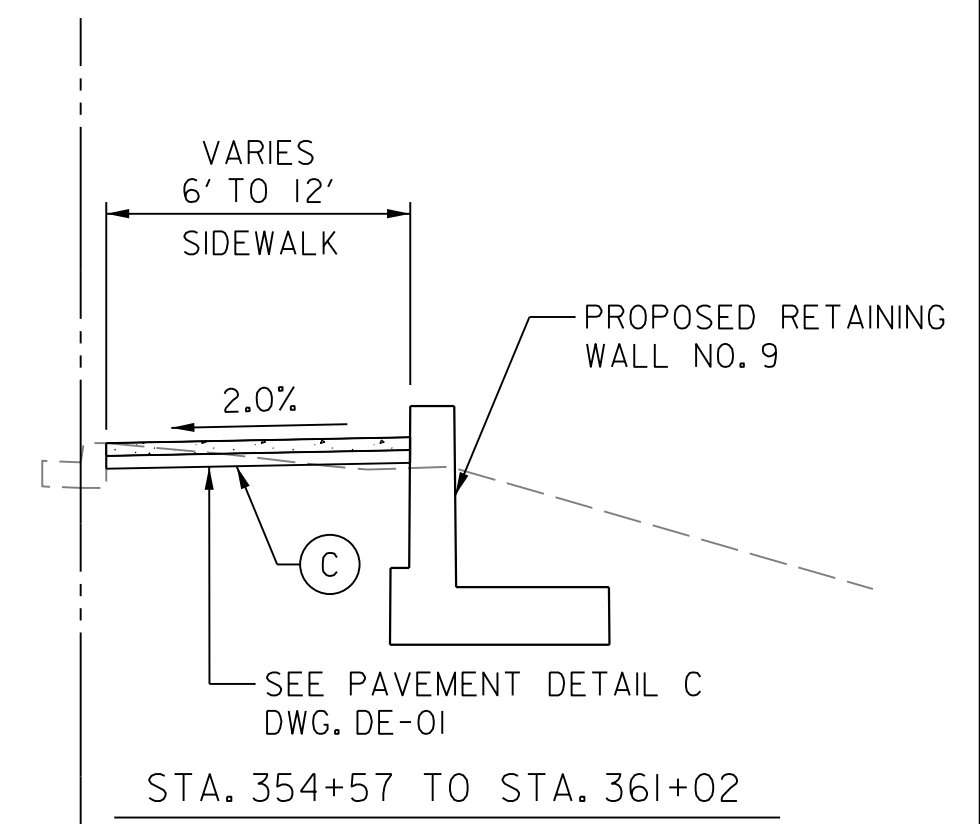
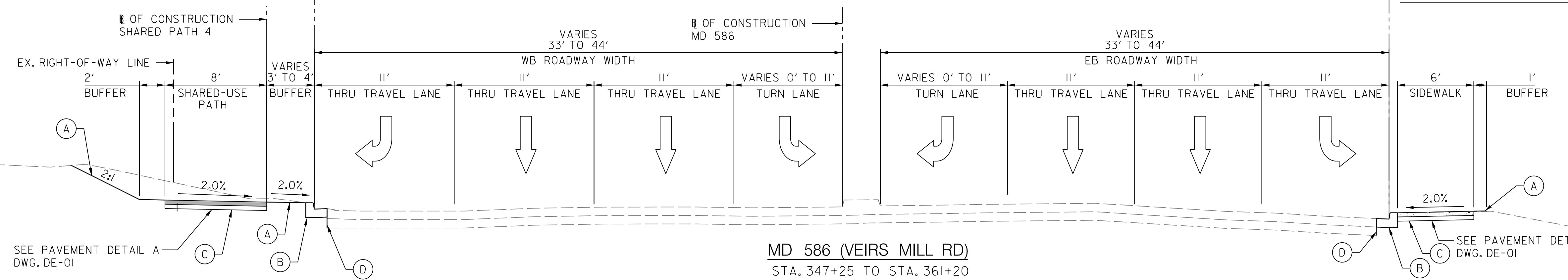
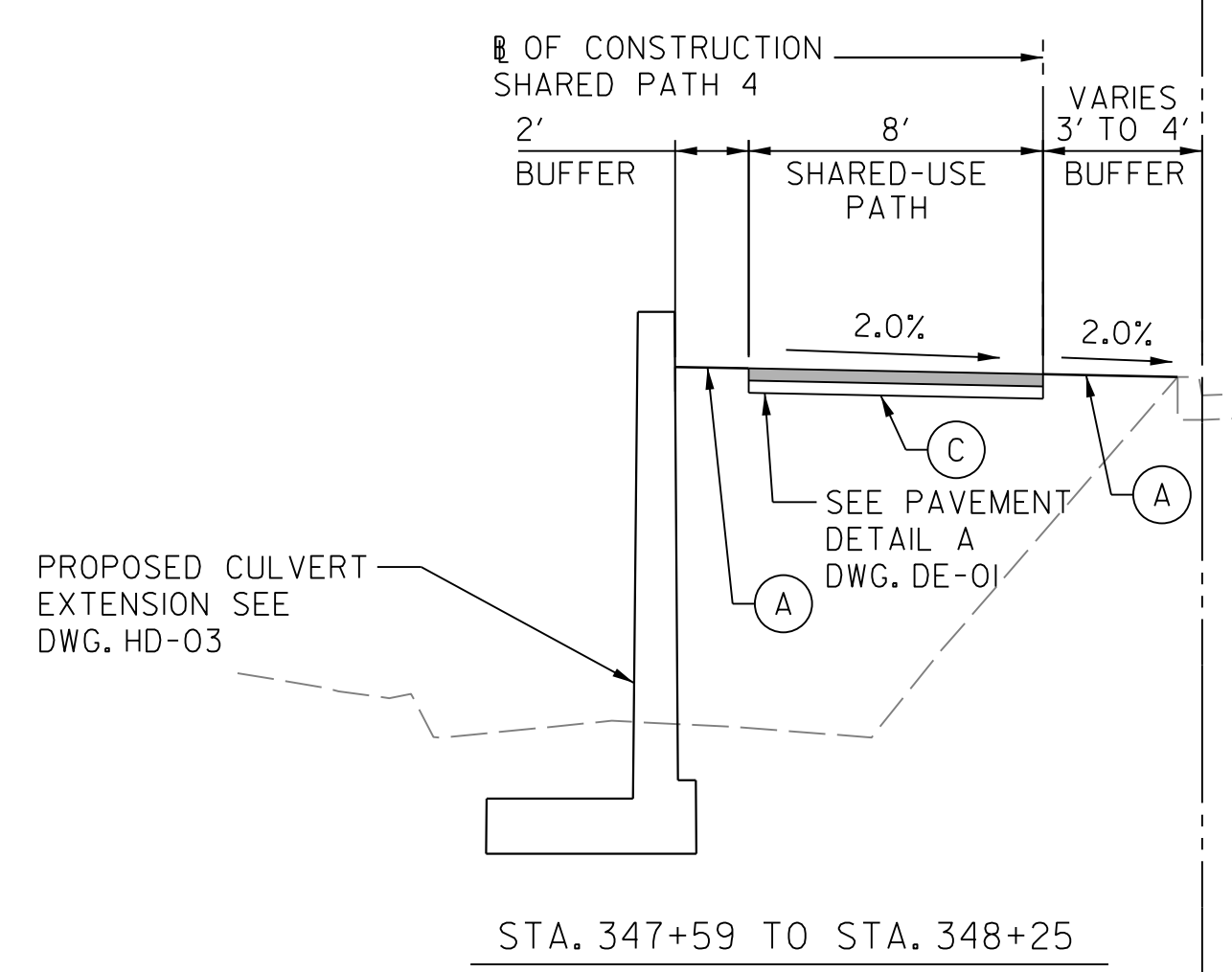
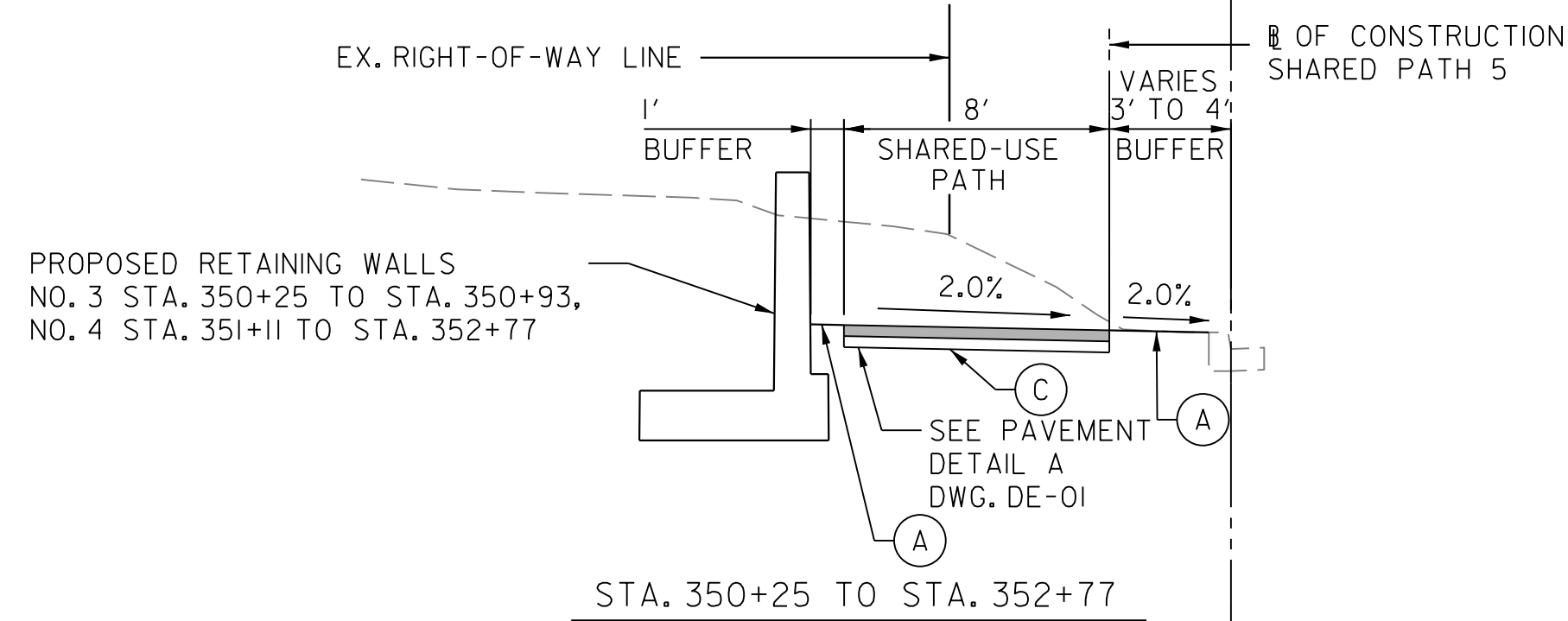
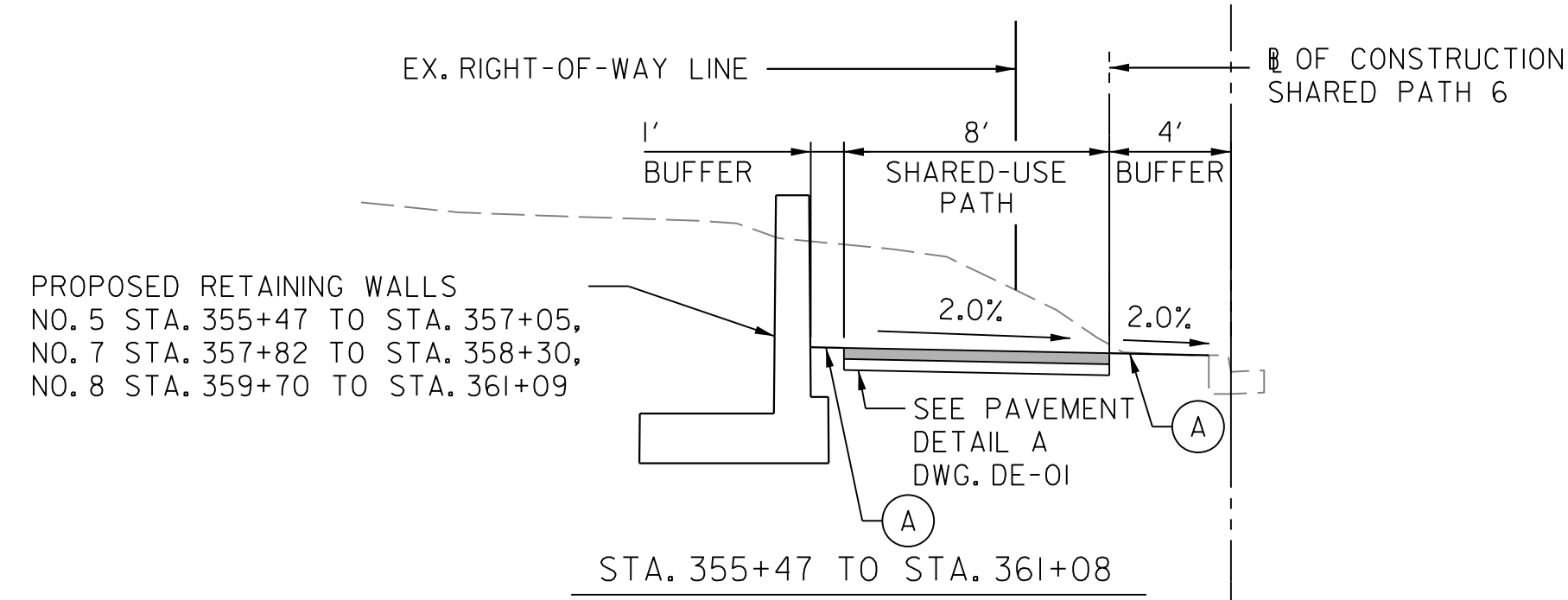
CONTRACT NO. 502003 SHEET NO. 3 OF 50

DWG. HT-01



TYPICAL SECTION LEGEND

- (A) PLACE 4" TOPSOIL AND SOD EXCEPT WHERE DITCH LININGS ARE TO BE BIOFILTRATION SEED MIX, RIPRAP OR CONCRETE.
- (B) COMBINATION CONCRETE CURB & GUTTER - TYPE A (STD NO. MC-100.01)
- (C) LIMIT OF CLASS I EXCAVATION
- (D) FULL DEPTH SAW CUT



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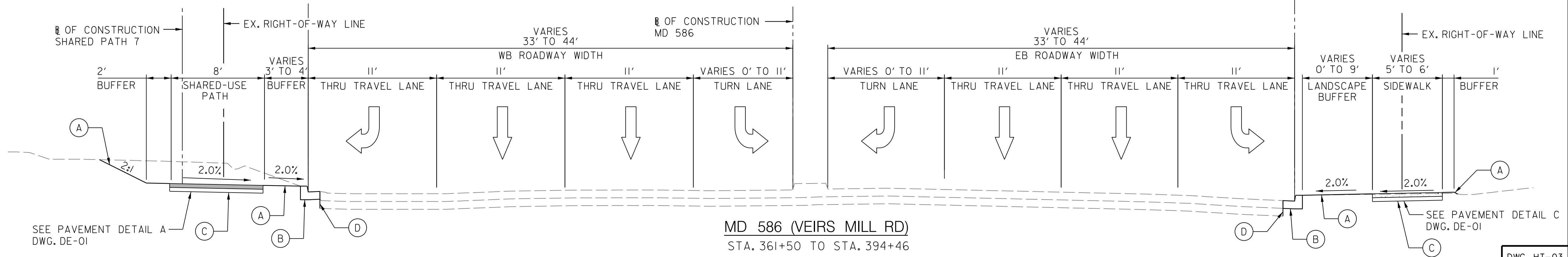
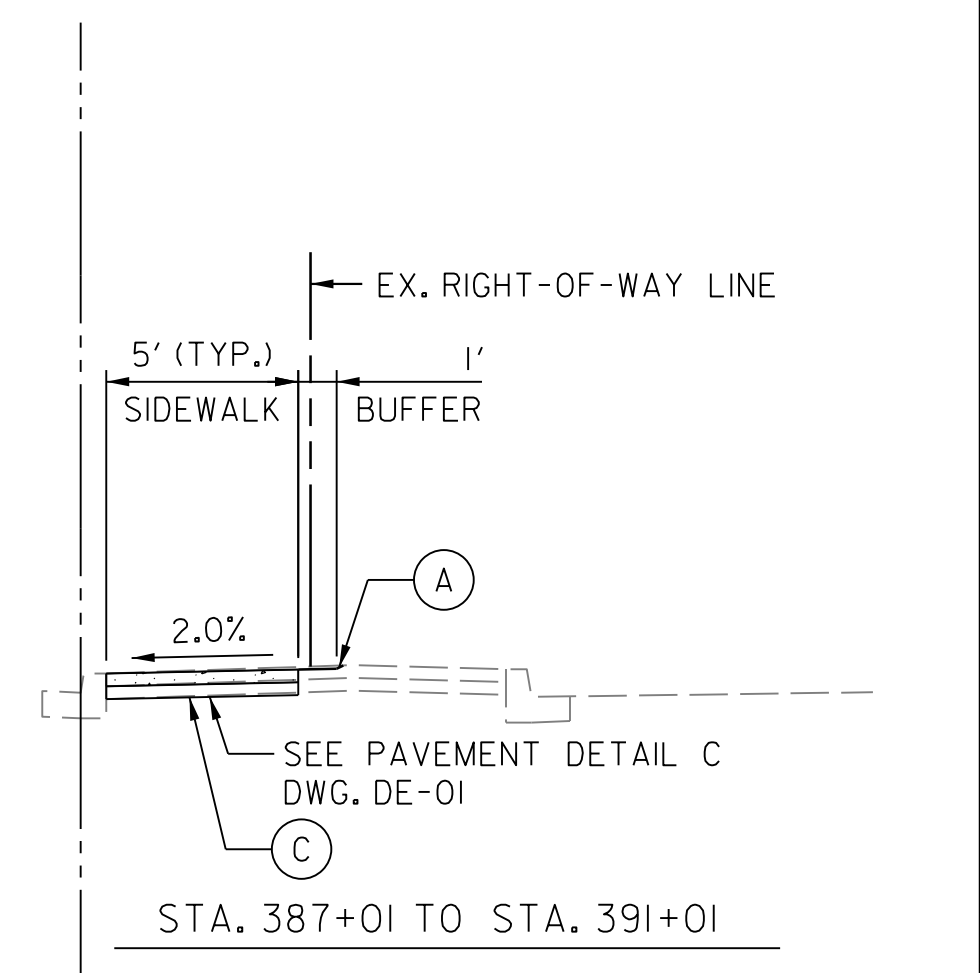
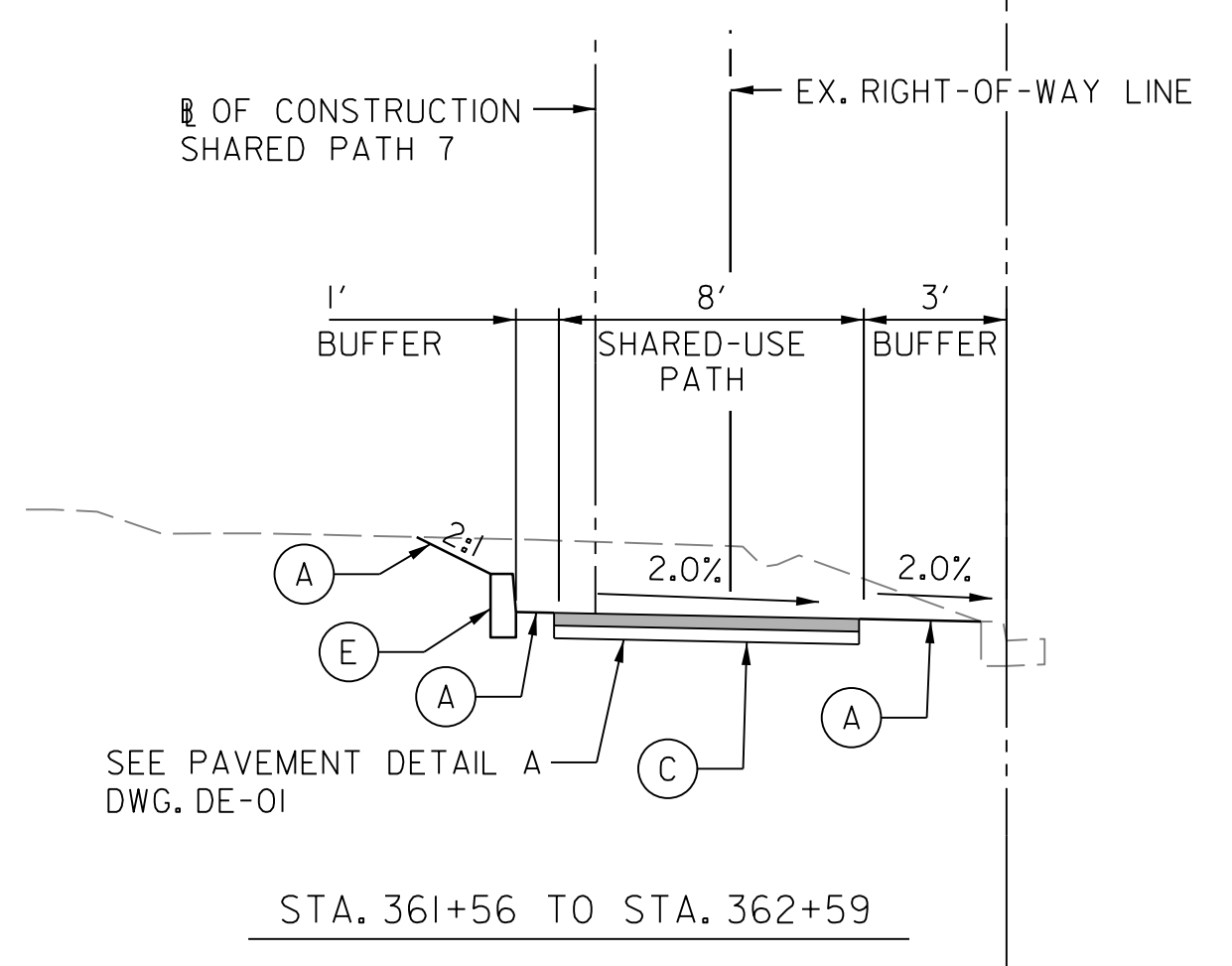
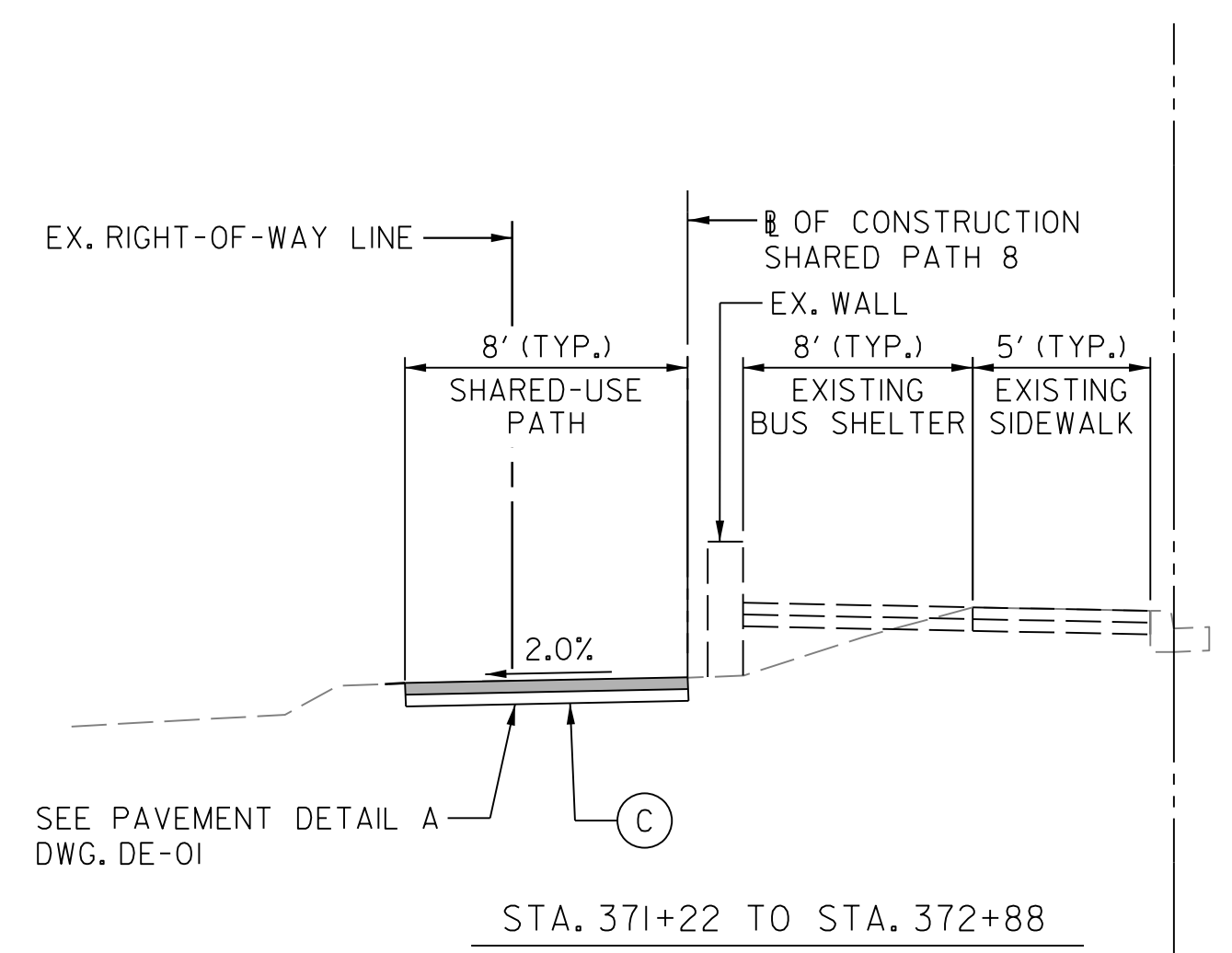
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EASTERN SECTOR  
TYPICAL SECTIONS

SCALE NO SCALE DATE JUNE 2022

CONTRACT NO. 502003 SHEET NO. 4 OF 50

DWG. HT-02

- TYPICAL SECTION LEGEND**
- (A) PLACE 4" FURNISHED TOPSOIL, SEED, AND MULCH.
  - (B) COMBINATION CONCRETE CURB & GUTTER - TYPE A (STD NO. MC-100.01)
  - (C) LIMIT OF CLASS 1 EXCAVATION
  - (D) FULL DEPTH SAW CUT
  - (E) MODIFIED TYPE A CURB 10" HEIGHT - SEE MODIFIED TYPE A CURB DETAIL ON DWG. DE-01



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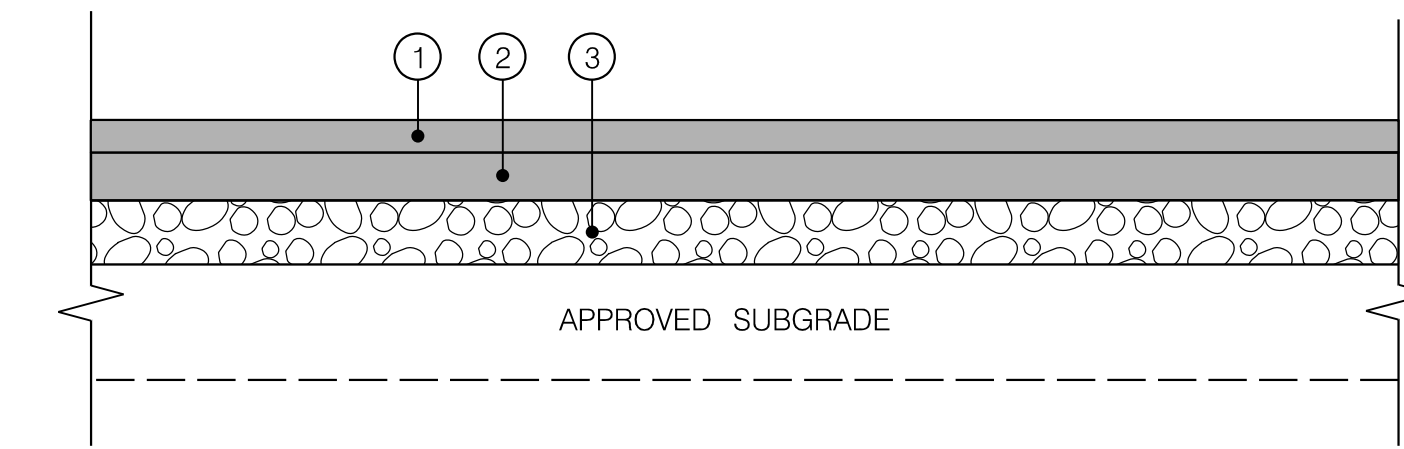
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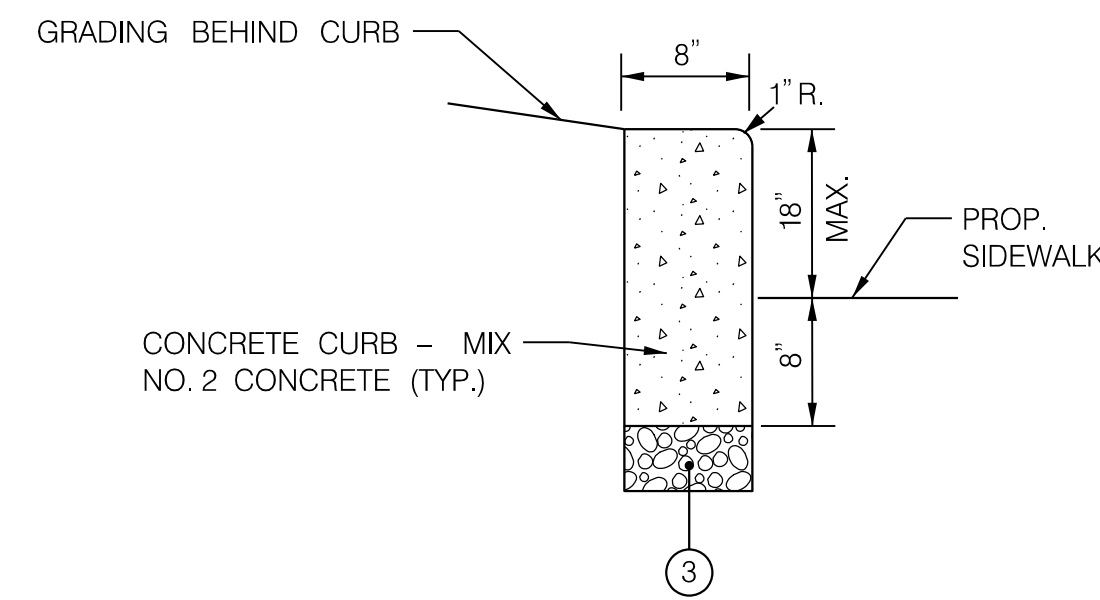
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 TYPICAL SECTIONS

SCALE NO SCALE DATE JUNE 2022

CONTRACT NO. 502003 SHEET NO. 5 OF 50



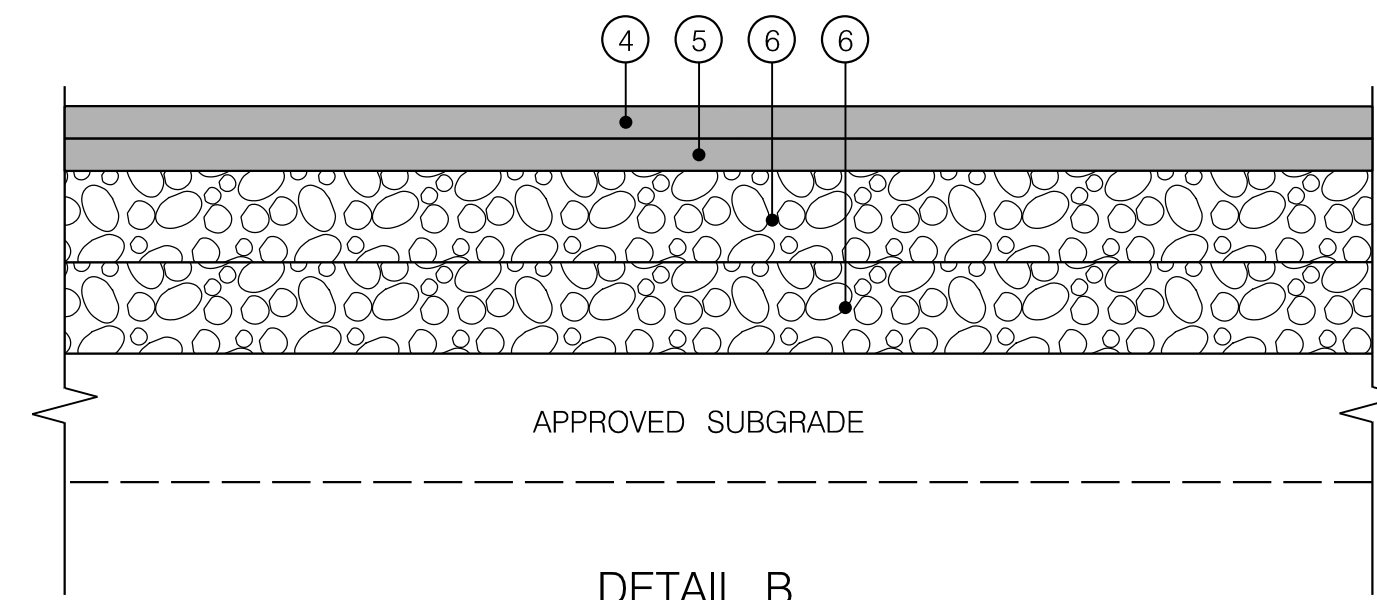
**DETAIL A**  
SHARED-USE PATH SECTION  
NOT TO SCALE



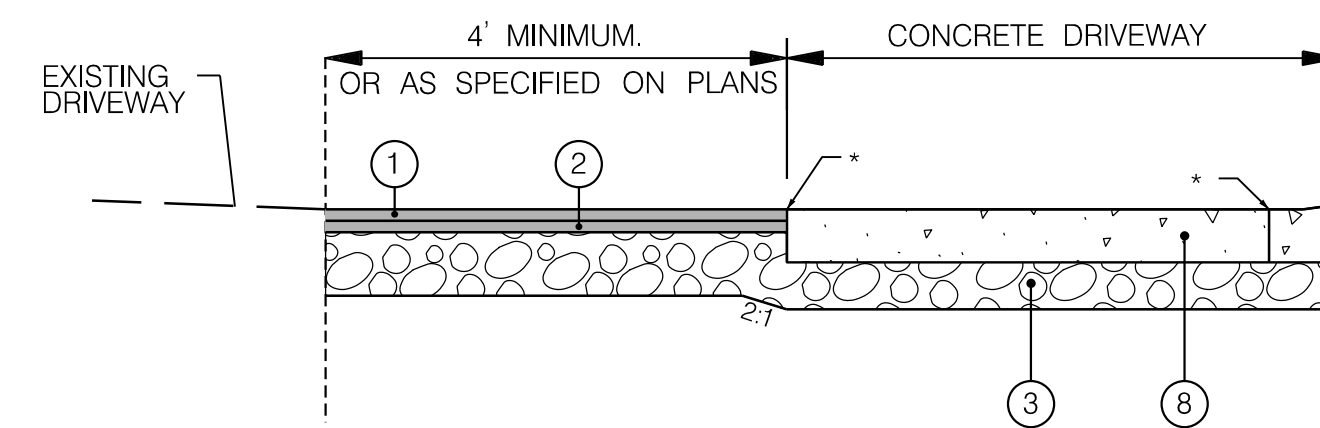
**MODIFIED TYPE A CURB**  
NOT TO SCALE

**PAVEMENT LEGEND**

- ① 2" SUPERPAVE ASPHALT MIX, 9.5 mm FOR SURFACE, PG 64S-22, L2
- ② 2" SUPERPAVE ASPHALT MIX, 19 mm FOR BASE, PG 64S-22, L2
- ③ 4" GRADED AGGREGATE BASE COURSE
- ④ 2" PERVIOUS ASPHALT MIX 12.5 MM FOR SURFACE
- ⑤ 2" PERVIOUS ASPHALT MIX 19.0 MM FOR BASE
- ⑥ 6" GRADED AGGREGATE BASE COURSE
- ⑦ 4" CONCRETE FOR SIDEWALKS, MD SHA MIX NO. 3
- ⑧ 8" PORTLAND CEMENT CONCRETE MIX NO. 9
- ⑨ STANDARD TYPE A CONCRETE CURB & GUTTER, REFER TO MD SHA STD. NO. MD 620.02



**DETAIL B**  
PERVIOUS ASPHALT PATH  
NOT TO SCALE



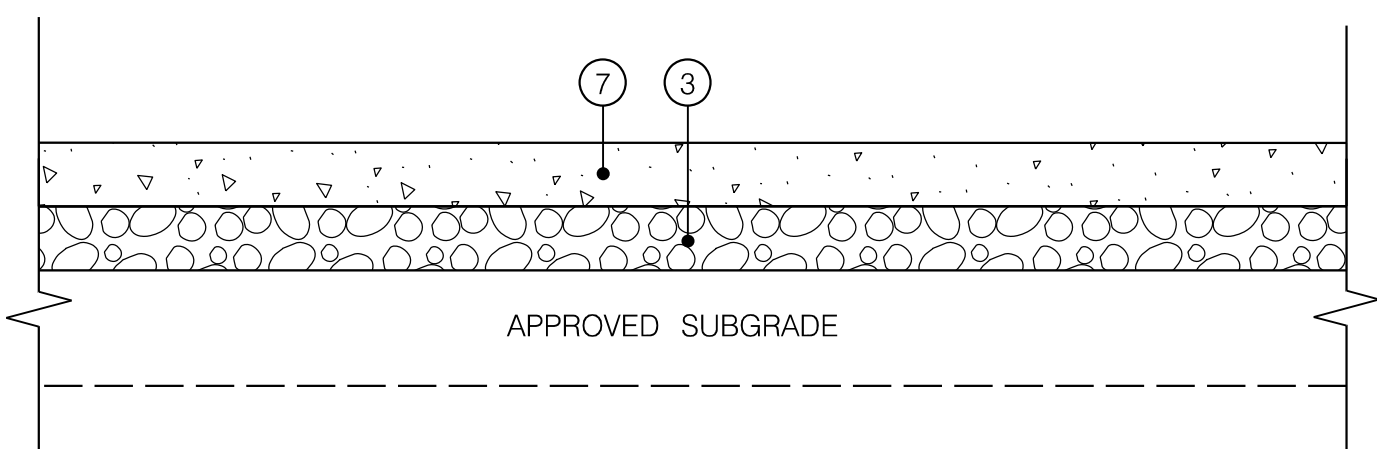
\*EXPANSION JOINTS AND JOINT MATERIAL PER COUNTY STANDARDS

**DETAIL D**  
DRIVEWAY SECTION  
NOT TO SCALE

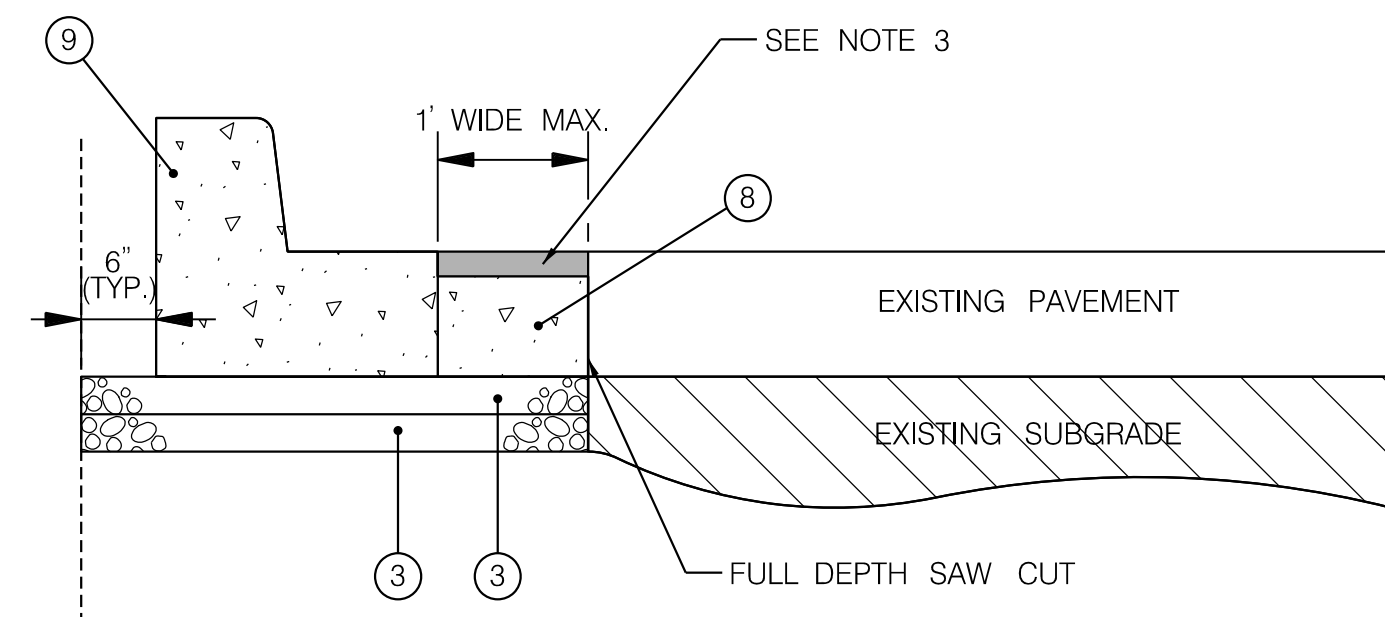
**PAVEMENT DETAIL NOTES**

1. REMOVE AND DISPOSE OF ALL SOFT AND UNSTABLE MATERIAL PER SECTION 208 OF THE MDSA STANDARD SPECIFICATIONS FOR CONSTRUCTION AND MATERIALS, JULY 2021. BACKFILL EXCAVATED AREA WITH SELECT BORROW.
2. IN AREAS WHERE EXISTING PAVEMENT IS BEING REMOVED, THE LIMIT OF EXCAVATION SHALL BE AT THE BOTTOM OF THE BOUND MATERIALS IN THE EXISTING PAVEMENT OR AT THE TOP OF SUBGRADE, WHICHEVER IS LOWER.
3. THIS WORK IS TO BE DONE AT THE CONTRACTOR'S OPTION. AN ADDITIONAL 1' WIDTH (MAXIMUM) EXCAVATION MAY BE USED FOR CURB AND GUTTER FORM PLACEMENT. THE ADDITIONAL EXCAVATION WIDTH IS TO BE FILLED WITH A MINIMUM OF 8" GAB AND PORTLAND CEMENT CONCRETE MIX NO. 3 FROM THE BOTTOM OF THE STANDARD CURB AND GUTTER TO 2" BELOW THE FINAL ASPHALT SURFACE ELEVATION. PAYMENT SHALL BE INCIDENTAL TO THE LINEAR FOOT ITEM FOR CURB & GUTTER. TRANSVERSE JOINTS SHALL MATCH THOSE OF THE CURB AND GUTTER. DOWEL BARS ARE NOT NECESSARY.

ALTERNATIVELY, THE CONTRACTOR MAY CHOOSE TO SAW-CUT THE EXISTING PAVEMENT AND PLACE THE NEW CURB AND GUTTER DIRECTLY AGAINST THE SAWED EDGE.



**DETAIL C**  
SIDEWALK SECTION  
NOT TO SCALE



**DETAIL E**  
NEW CURB AND GUTTER PLACEMENT  
NOT TO SCALE

DWG. DE-01

PLOTTER: 6/26/2022  
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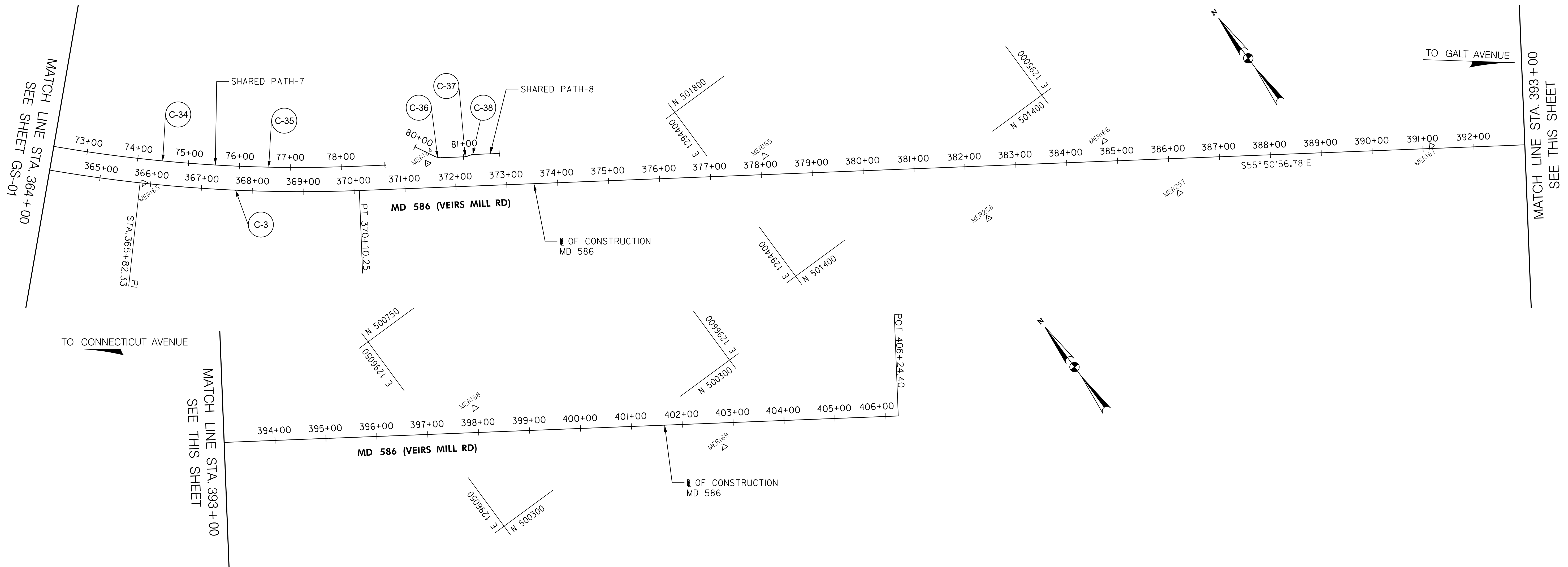
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MD 586 (VEIRS MILL RD) BIKE  
AND PEDESTRIAN PRIORITY AREA –  
EASTERN SECTOR  
ROADWAY AND PAVEMENT DETAILS  
SCALE NO SCALE DATE JUNE 2022

CONTRACT NO. 502003 SHEET NO. 6 OF 50





BASELINE CONTROL COORDINATES					
BASELINE	POINT NO.	STATION	NORTH	EAST	BEARING
MD 586 (VEIRS MILL RD)	PC	361+48.00	502,626.1897	1,293,178.7887	S 38° 48' 48.78" E
	PT	370+10.25	502,043.9454	1,293,810.4536	
	POE	406+24.40	500,015.0542	1,296,901.3872	S 55° 50' 56.78" E
SHARED PATH-7	PC	70+00.00	502,644.4553	1,293,224.7417	
	PI	73+03.05	502,409.2894	1,293,415.8929	
	PCC	76+03.83	502,219.6437	1,293,652.2746	
	PI	77+13.04	502,151.3042	1,293,737.4554	
	PT	78+22.13	502,089.9985	1,293,827.8306	
	POE	78+85.82	502,054.2424	1,293,880.5412	S 55° 50' 56.78" E
SHARED PATH-8	PT	80+00.00	502,048.1867	1,293,949.3228	S 27° 52' 11.60" E
	PC	80+42.96	502,010.2075	1,293,969.4061	
	PI	80+49.94	502,004.0409	1,293,972.6671	
	PT	80+56.64	502,000.1248	1,293,978.4400	
	PC	80+99.25	501,976.2004	1,294,013.7087	S 55° 50' 56.78" E
	PI	81+02.94	501,974.1310	1,294,016.7593	
	PT	81+06.58	501,972.9217	1,294,020.2416	
	PC	81+15.72	501,969.9247	1,294,028.8715	S 70° 50' 56.78" E
	PI	81+18.35	501,969.0610	1,294,031.3588	
	PT	81+20.95	501,967.5828	1,294,033.5378	
POE	81+70.74	501,939.6351	1,294,074.7376	S 55° 50' 56.78" E	

CURVE DATA						
CURVE	DELTA	Dc	RADIUS	TANGENT	LENGTH	EXTERNAL
C-3	17° 02' 08.00" LT.	1° 58' 32.58"	2900.00'	434.33'	862.25'	32.34'
C-34	12° 09' 17.90" LT.	2° 00' 46.68"	2846.33'	303.05'	603.83'	16.09'
C-35	4° 35' 19.31" LT.	2° 06' 07.38"	2725.71'	109.21'	218.30'	2.19'
C-36	27° 58' 45.19" LT.	204° 37' 40.02"	28.00'	6.98'	13.67'	0.86'
C-37	15° 00' 00.00" LT.	204° 37' 40.02"	28.00'	3.69'	7.33'	0.24'
C-38	15° 00' 00.00" RT.	286° 28' 44.03"	20.00'	2.63'	5.24'	0.17'

TRAVERSE CONTROL				
TRAV PT.	NORTHING	EASTING	ELEVATION	DESCRIPTION
MER163	502,306.6226	1,293,478.9724	381.69	-
MER164	502,007.5206	1,293,949.7381	367.32	-
MER165	501,626.4009	1,294,491.5171	381.68	-
MER166	501,254.9789	1,295,045.3797	407.76	-
MER167	500,866.1012	1,295,556.4498	446.13	-
MER168	500,520.8805	1,296,141.6560	447.73	-
MER169	500,169.2756	1,296,490.3087	460.85	-
MER257	501,084.6629	1,295,103.4191	423.19	-
MER258	501,266.9155	1,294,772.2476	399.90	-

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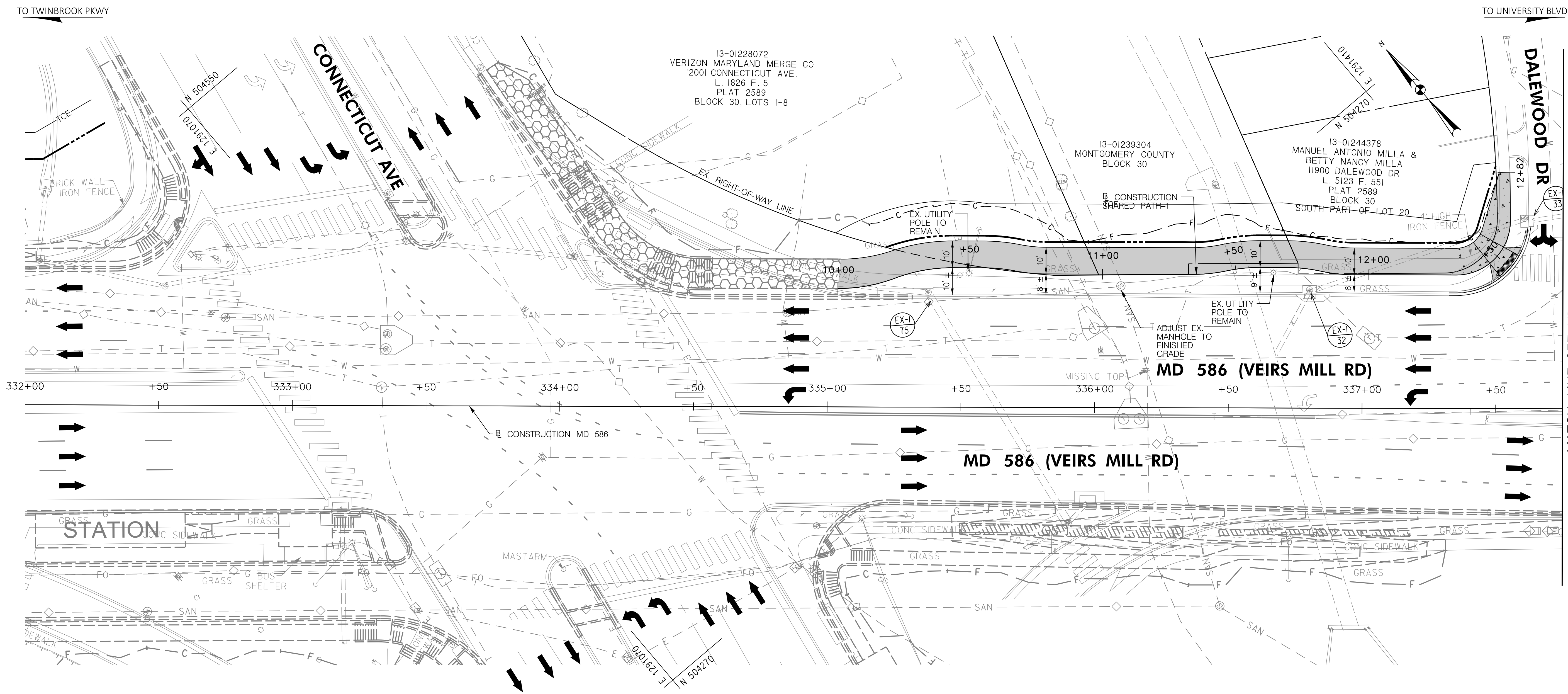
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 MD 586 (VEIRS MILL RD) BIKE  
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 EASTERN SECTOR  
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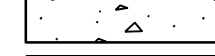

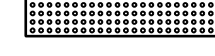


SCALE 1"=100' DATE JUNE 2022

CONTRACT NO. 502003 SHEET NO. 8 OF 50

DWG. GS-02



**LEGEND**

-  ASPHALT SHARED USE PATH
-  CONCRETE SIDEWALK
-  ASPHALT DRIVEWAY
-  CONCRETE DRIVEWAY
-  PERVIOUS ASPHALT SHARED USE PATH
-  DETECTABLE WARNING SURFACE
-  PROPOSED BRT IMPROVEMENTS
-  IMPROVEMENTS BY OTHERS



DWG. HD-01

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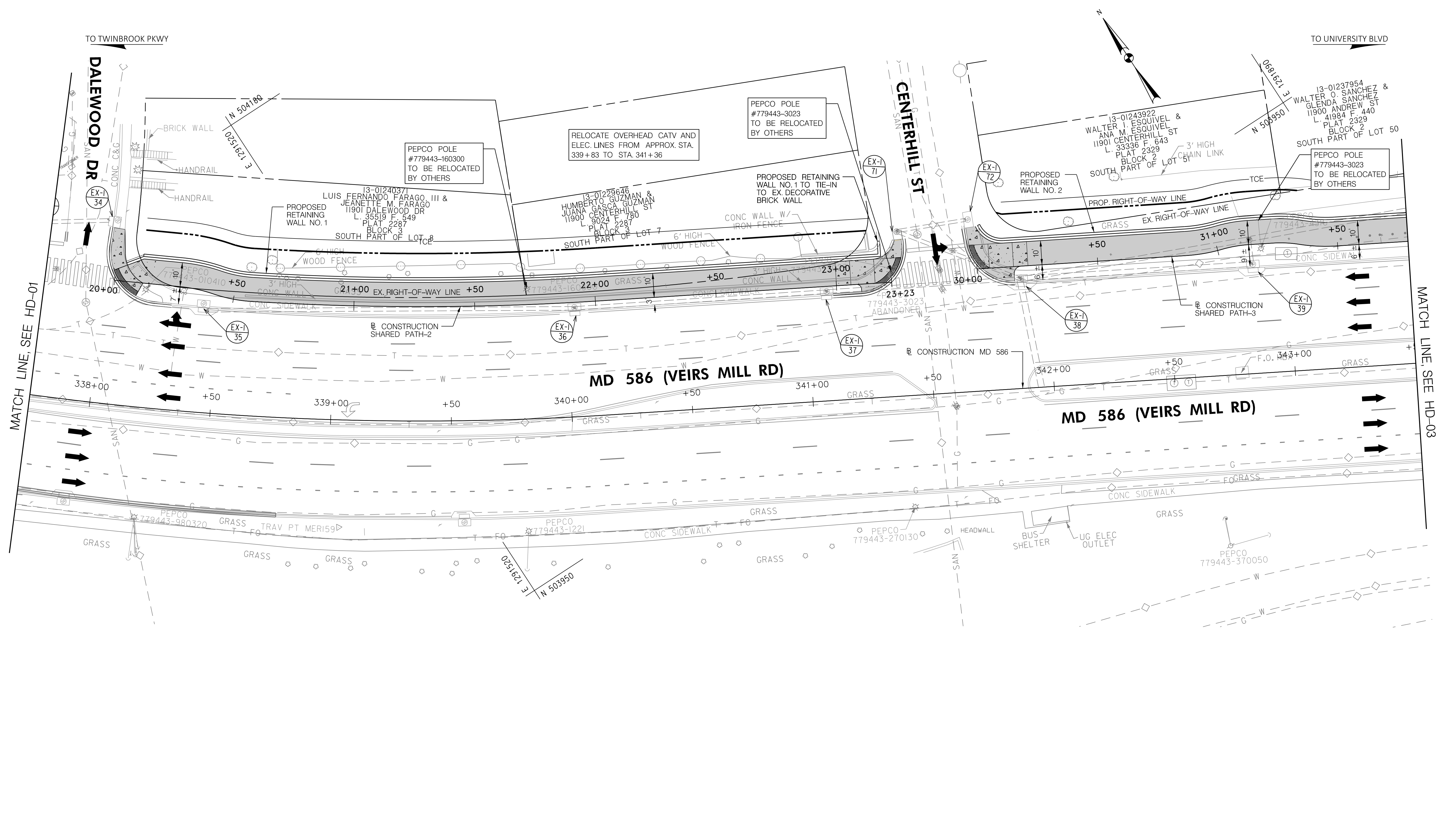
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ROADWAY PLAN

SCALE 1"=20' DATE JUNE 2022

CONTRACT NO. 502003 SHEET NO. 9 OF 50


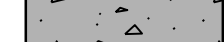

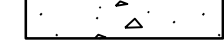
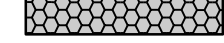



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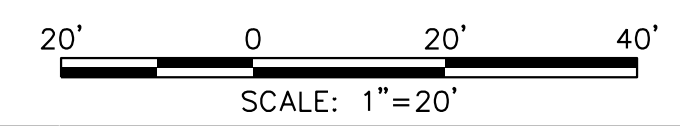


MATCH LINE, SEE HD-01

MATCH LINE, SEE HD-03

**LEGEND**

-  ASPHALT SHARED USE PATH
-  CONCRETE SIDEWALK
-  ASPHALT DRIVEWAY
-  CONCRETE DRIVEWAY
-  PERVIOUS ASPHALT SHARED USE PATH
-  DETECTABLE WARNING SURFACE
-  PROPOSED BRT IMPROVEMENTS
-  IMPROVEMENTS BY OTHERS



DWG. HD-02

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 Chief, Transportation Planning and Design Section

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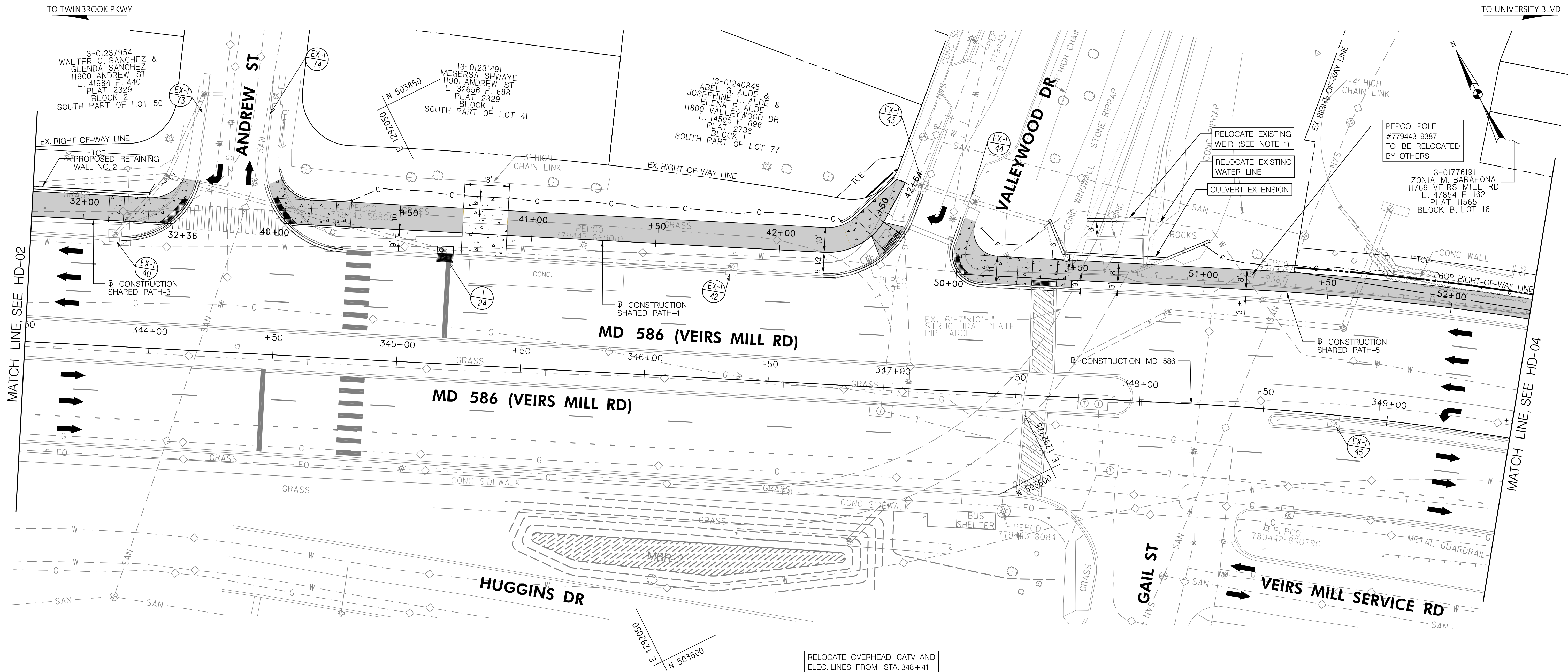
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**MD 586 (VEIRS MILL RD) BIKE  
 AND PEDESTRIAN PRIORITY AREA –  
 EASTERN SECTOR  
 ROADWAY PLAN**

SCALE 1"=20' DATE JUNE 2022

CONTRACT NO. 502003 SHEET NO. 10 OF 50

PLOTTER: 6/29/2022  
 FILE: \\rkk\csm\16\1606\Projects\2020\20077\_MCDOT\Temp\Task\_11\_Veirs\_MiBPPA\_Eastern\_Sector\CADD\Plan\HD-02\_VeirsMiB-Eastern.dgn



RELOCATE OVERHEAD CATV AND ELEC. LINES FROM STA. 348+41 TO STA. 350+63, LT

- NOTES:**
- 1. COST OF EXISTING WEIR RELOCATION SHALL BE INCIDENTAL TO COST OF CULVERT RELOCATION.

- LEGEND**
- ASPHALT SHARED USE PATH
  - CONCRETE SIDEWALK
  - ASPHALT DRIVEWAY
  - CONCRETE DRIVEWAY
  - PERVIOUS ASPHALT SHARED USE PATH
  - DETECTABLE WARNING SURFACE
  - PROPOSED BRT IMPROVEMENTS
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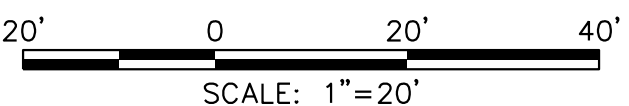
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**MD 586 (VEIRS MILL RD) BIKE  
 AND PEDESTRIAN PRIORITY AREA -  
 EASTERN SECTOR**  
**ROADWAY PLAN**

SCALE: 1"=20' DATE: JUNE 2022

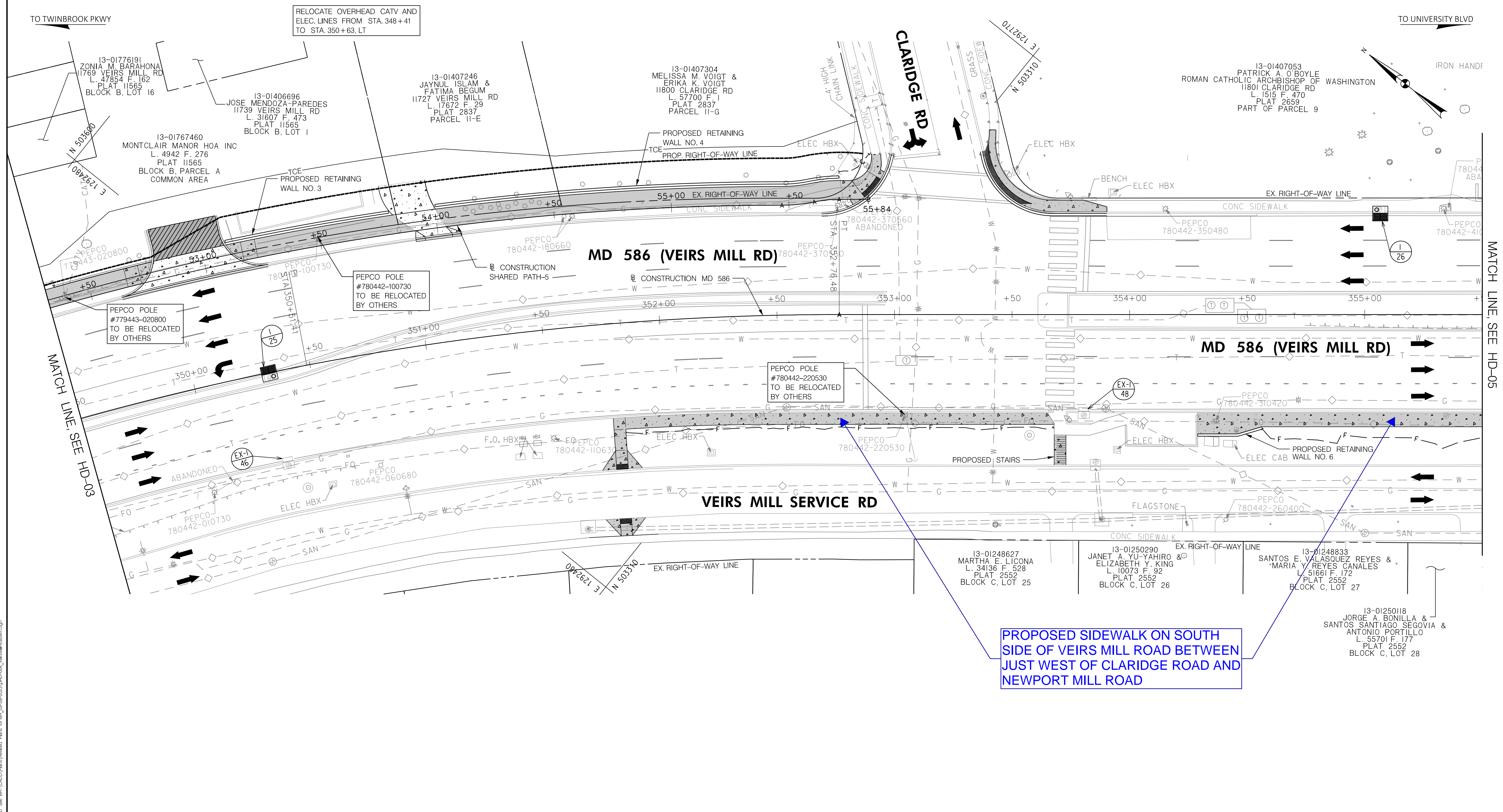
CONTRACT NO. 502003 SHEET NO. 11 OF 50



DWG. HD-03

PROJECT: 6626269  
 FILE: \\vkk1kccm01\share\Projects\2020\20077\_MCDOT\Temp\Task\_11\_Veirs\_MB/BIPPA\_Eastern\_Sector\CADD\Plan\41D-03\_VeirsMB-Eastern.dgn





**LEGEND**

	ASPHALT SHARED USE PATH
	CONCRETE SIDEWALK
	ASPHALT DRIVEWAY
	CONCRETE DRIVEWAY
	PERVIOUS ASPHALT SHARED USE PATH
	DETECTABLE WARNING SURFACE
	PROPOSED BRT IMPROVEMENTS
	IMPROVEMENTS BY OTHERS

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**MD 586 (VEIRS MILL RD) BIKE  
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 EASTERN SECTOR  
 ROADWAY PLAN**

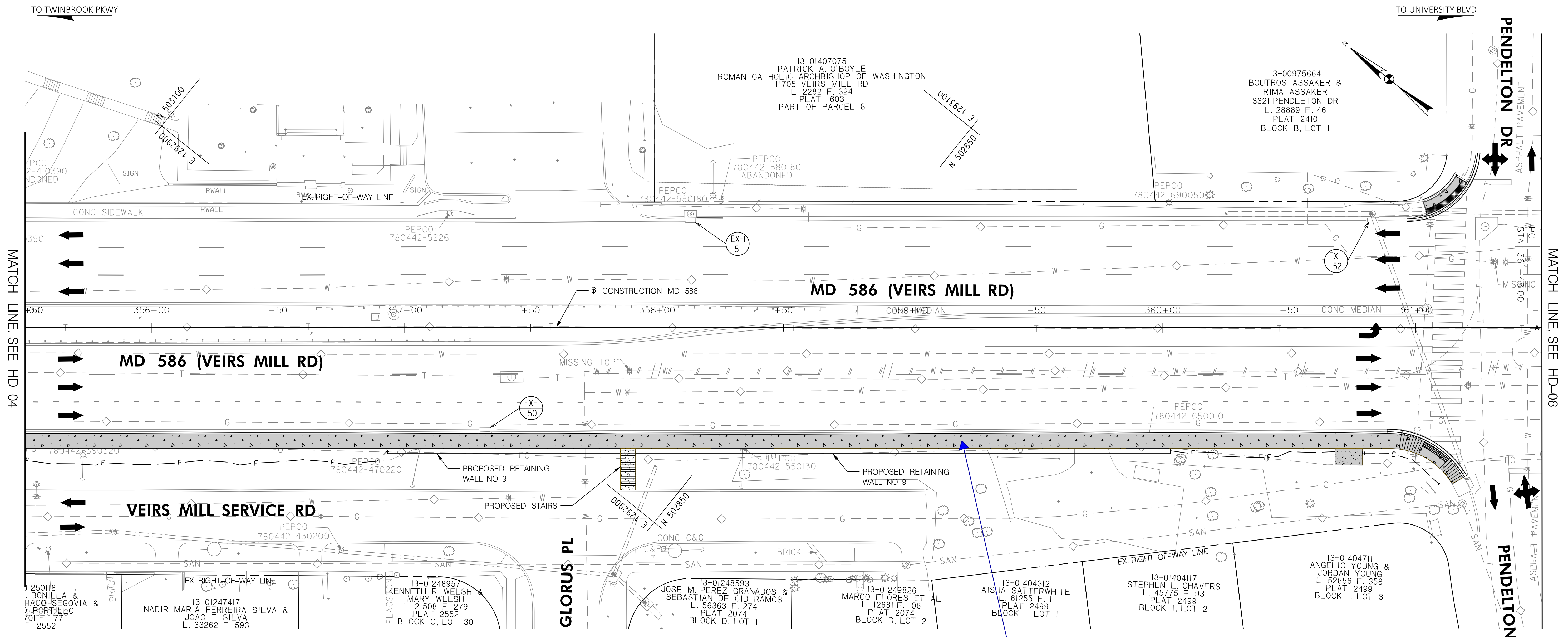
SCALE 1"=20' DATE DECEMBER 2022

CONTRACT NO. 502003 SHEET NO. 12 OF 50



DWG. HD-04

PLOTTER: 6/26/2023  
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MATCH LINE, SEE HD-04

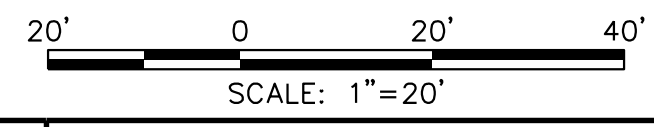
MATCH LINE, SEE HD-06

RELOCATE UNDERGROUND FIBERLIGHT LINE FROM APPROX. STA. 356+50 TO STA. 360+50 DUE TO RETAINING WALLS

PROPOSED SIDEWALK ON SOUTH SIDE OF VEIRS MILL ROAD JUST WEST OF CLARIDGE ROAD AND NEWPORT MILL ROAD

**LEGEND**

- ASPHALT SHARED USE PATH
- CONCRETE SIDEWALK
- ASPHALT DRIVEWAY
- CONCRETE DRIVEWAY
- PERVIOUS ASPHALT SHARED USE PATH
- DETECTABLE WARNING SURFACE
- PROPOSED BRT IMPROVEMENTS
- IMPROVEMENTS BY OTHERS



DWG. HD-05

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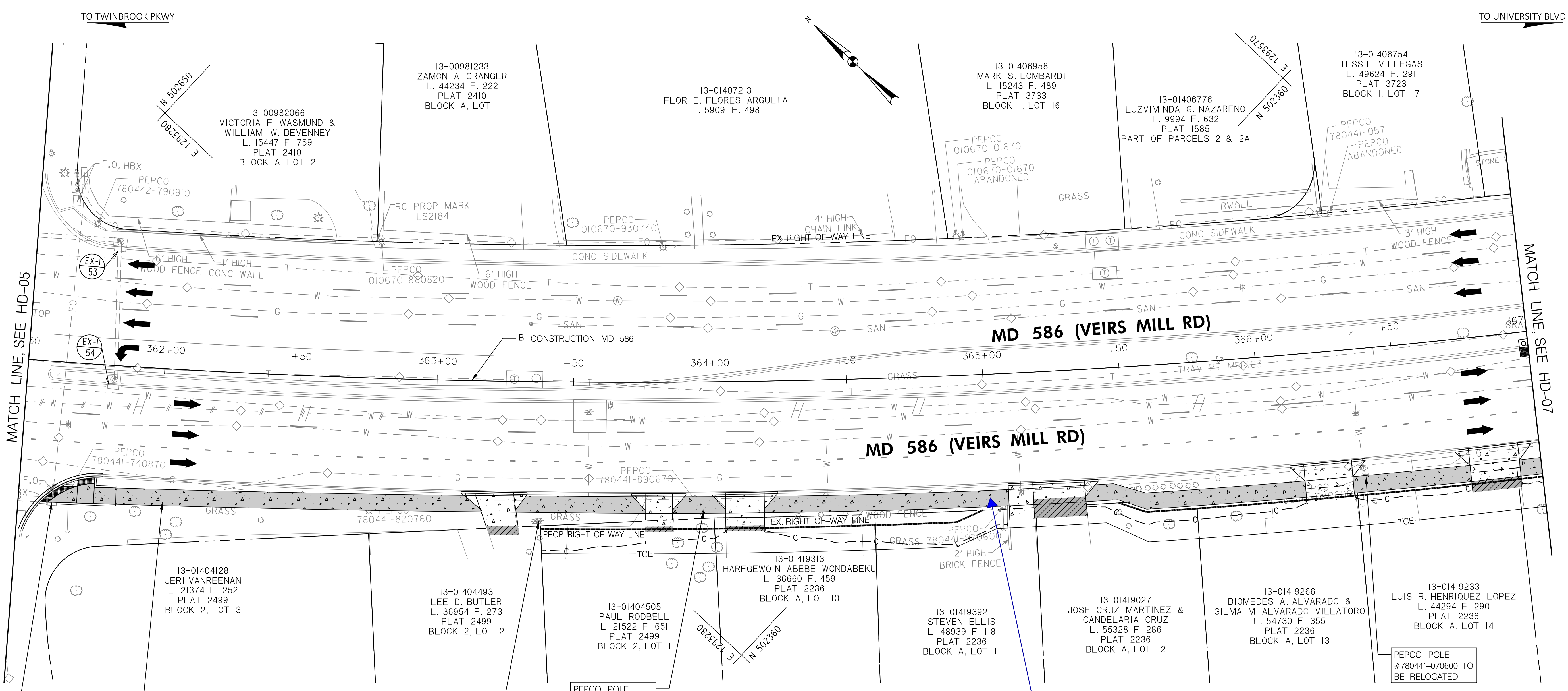
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EASTERN SECTOR  
ROADWAY PLAN

SCALE 1"=20' DATE DECEMBER 2022

CONTRACT NO. 502003 SHEET NO. 13 OF 50

PLOTTER: 8566283  
 FILE: \\vkk\kccom\18\Chen\Projects\2020\20007\_MCDOT\Temp\Task\_1 - MD\_586\_BRT\CAD\Plan\Reviewed\_Plan\_for\_MF\_03-28-2020\p05\_VeirsMill-Eastern.dgn



MATCH LINE, SEE HD-05

MATCH LINE, SEE HD-07

TO TWINBROOK PKWY

TO UNIVERSITY BLVD

**PROPOSED SIDEWALK ON SOUTH SIDE OF VEIRS MILL ROAD BETWEEN JUST WEST OF CLARIDGE ROAD AND NEWPORT MILL ROAD**

F.O. HANDBOX COVER TO BE ADJUSTED

GAS VALVE COVER TO BE ADJUSTED

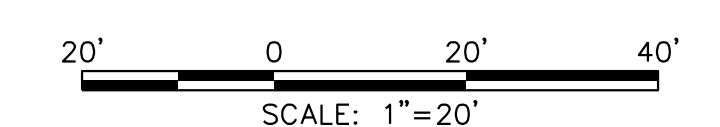
TWO WATER VALVE COVERS TO BE ADJUSTED

PEPCO POLE #780441-890670 TO BE RELOCATED

PEPCO POLE #780441-070600 TO BE RELOCATED

**LEGEND**

	ASPHALT SHARED USE PATH
	CONCRETE SIDEWALK
	ASPHALT DRIVEWAY
	CONCRETE DRIVEWAY
	PERVIOUS ASPHALT SHARED USE PATH
	DETECTABLE WARNING SURFACE
	PROPOSED BRT IMPROVEMENTS
	IMPROVEMENTS BY OTHERS



DWG. HD-06

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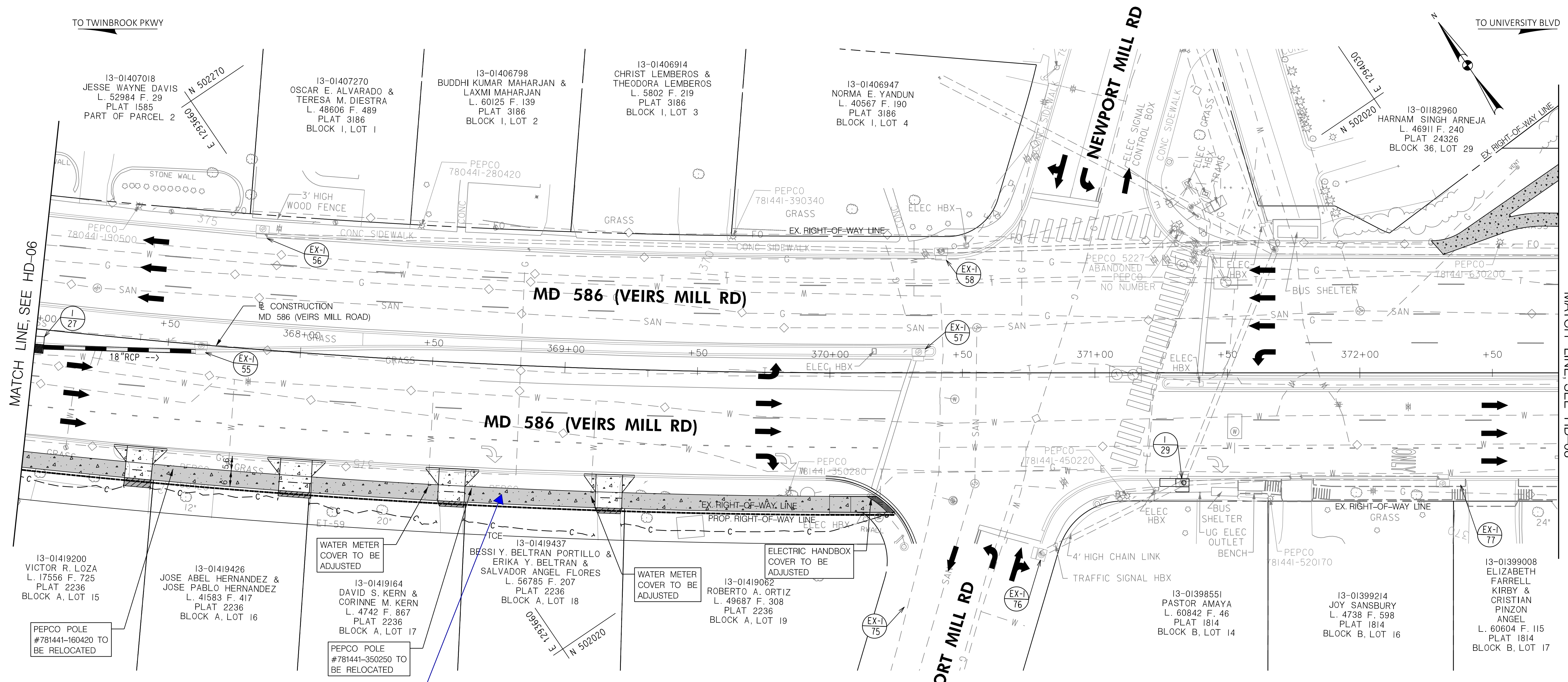
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**MD 586 (VEIRS MILL RD) BIKE  
 AND PEDESTRIAN PRIORITY AREA –  
 EASTERN SECTOR  
 ROADWAY PLAN**

SCALE 1"=20' DATE DECEMBER 2022

CONTRACT NO. 502003 SHEET NO. 14 OF 50

PLOTTER: 8/26/2022  
 FILE: \\V:\rkk\com\13\13097\Projects\2020\20097\_MCDOT\Temp\Task\_1 - MD\_586\_BRT\CADD\Plan\Reviewed Plans for ME\_03-28-2022\p4D-006\_VeirsMill-Eastern.dgn



**PROPOSED SIDEWALK ON SOUTH SIDE OF VEIRS MILL ROAD BETWEEN JUST WEST OF CLARIDGE ROAD AND NEWPORT MILL ROAD**

**LEGEND**

	ASPHALT SHARED USE PATH
	CONCRETE SIDEWALK
	ASPHALT DRIVEWAY
	CONCRETE DRIVEWAY
	PERVIOUS ASPHALT SHARED USE PATH
	DETECTABLE WARNING SURFACE
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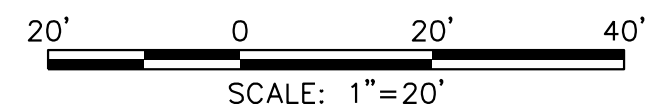
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**MD 586 (VEIRS MILL RD) BIKE  
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 EASTERN SECTOR  
 ROADWAY PLAN**

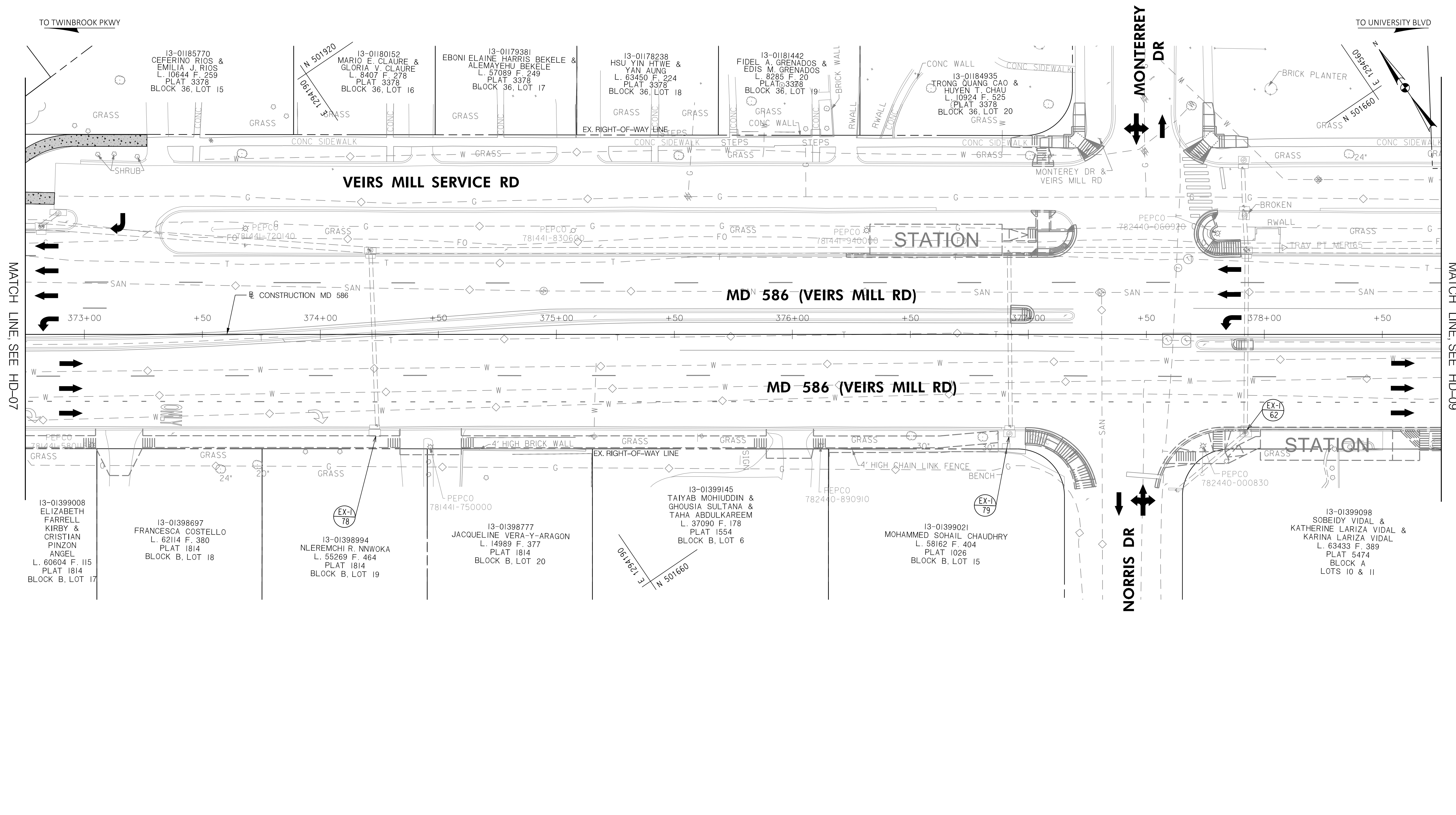
SCALE: 1"=20' DATE: DECEMBER 2022

CONTRACT NO. 502003 SHEET NO. 15 OF 50





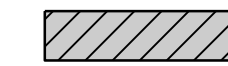
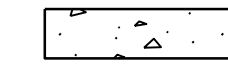
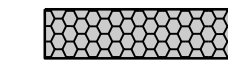
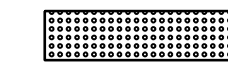


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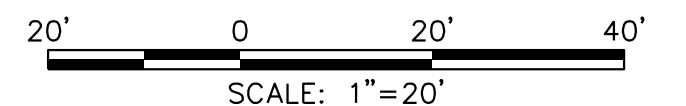
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PLOTTER: 8/26/2023  
FILE: \\vkk\kccm\16\1\Proj\1\2023\2023077\_MCDOTTemp\Task\_1 - MD\_586\_BRT\CAD\Plan\Reviewed Plans for ME\_03-28-2023\2023\_Veirs Mill-Eastern.dgn

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- LEGEND**
-  ASPHALT SHARED USE PATH
  -  CONCRETE SIDEWALK
  -  ASPHALT DRIVEWAY
  -  CONCRETE DRIVEWAY
  -  PERVIOUS ASPHALT SHARED USE PATH
  -  DETECTABLE WARNING SURFACE
  -  PROPOSED BRT IMPROVEMENTS
  -  IMPROVEMENTS BY OTHERS



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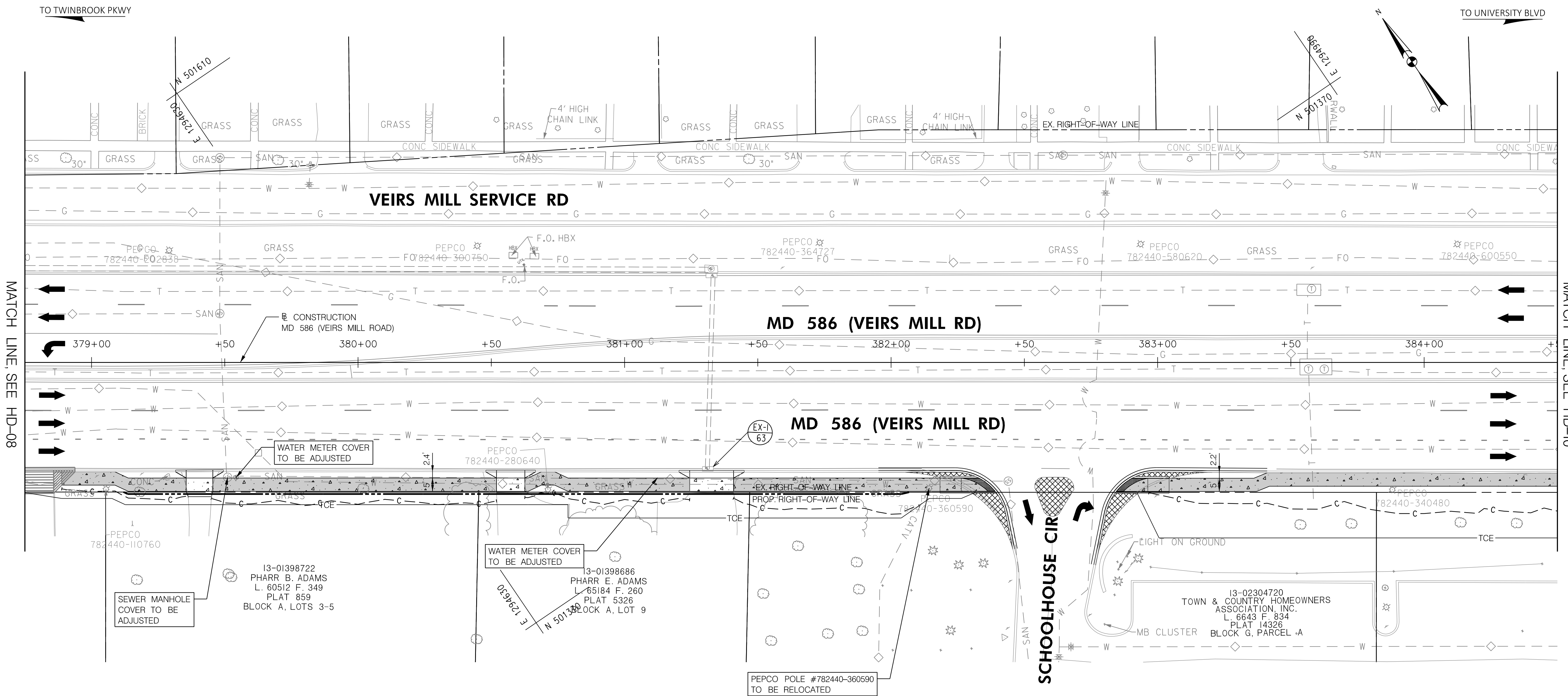
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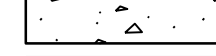

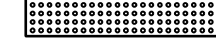


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MD 586 (VEIRS MILL RD) BIKE  
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EASTERN SECTOR  
ROADWAY PLAN

SCALE 1"=20' DATE MARCH 2023

CONTRACT NO. 502003 SHEET NO. 16 OF 50



**LEGEND**

-  ASPHALT SHARED USE PATH
-  CONCRETE SIDEWALK
-  ASPHALT DRIVEWAY
-  CONCRETE DRIVEWAY
-  PERVIOUS ASPHALT SHARED USE PATH
-  DETECTABLE WARNING SURFACE
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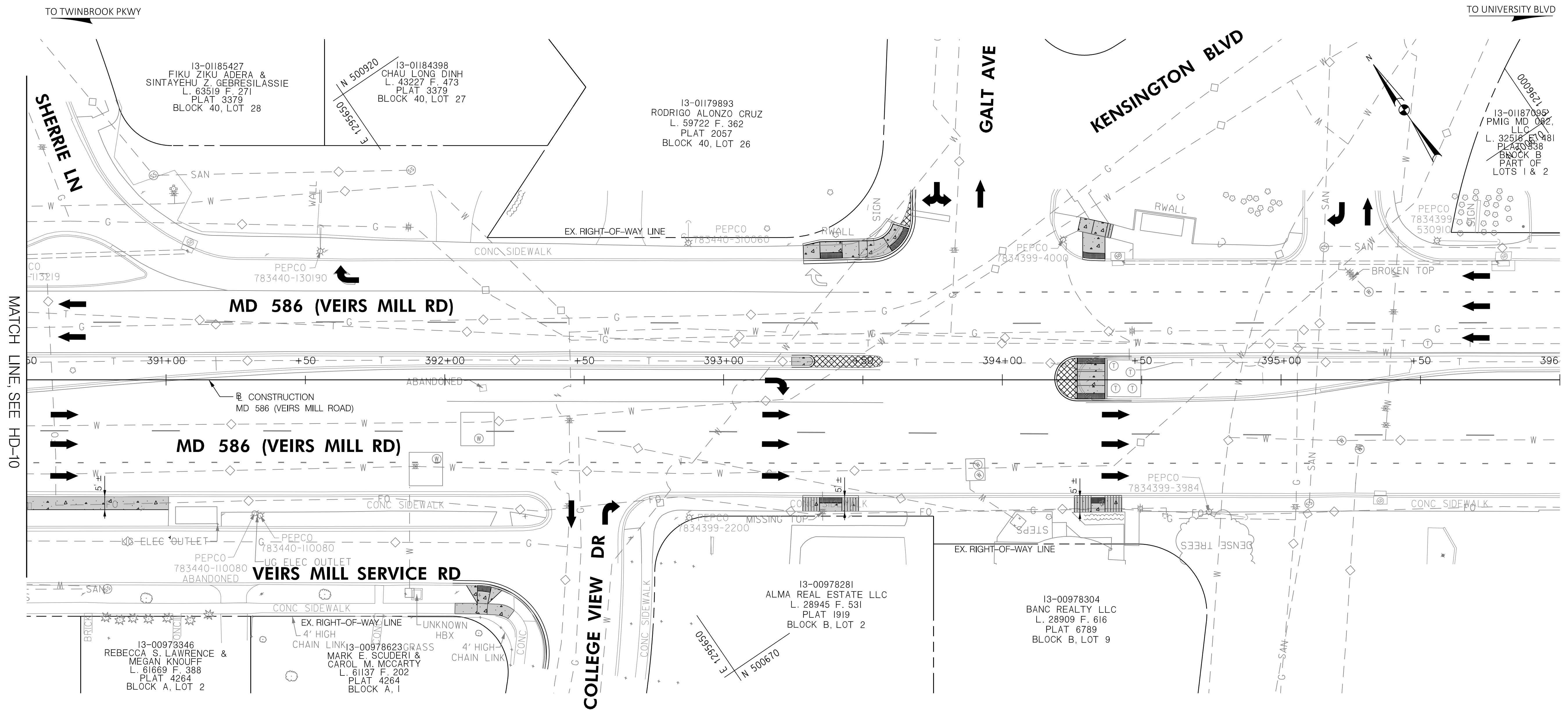
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CONTRACT NO. 502003 SHEET NO. 17 OF 50

PLOTTER: 6/29/2022  
 FILE: \\rkk.com\Users\jck\Projects\2020\20097\_MCOOT\Temp\Task\_11\_Veirs\_MiBPPA\_Eastern\_Sector\CADD\Plan\HD-09\_VeirsMiB-Eastern.dgn

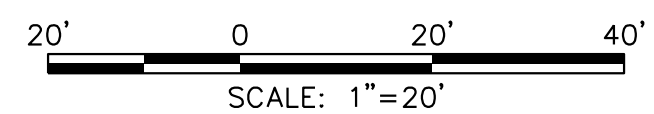




MATCH LINE, SEE HD-10

**LEGEND**

- ASPHALT SHARED USE PATH
- CONCRETE SIDEWALK
- ASPHALT DRIVEWAY
- CONCRETE DRIVEWAY
- PERVIOUS ASPHALT SHARED USE PATH
- DETECTABLE WARNING SURFACE
- PROPOSED BRT IMPROVEMENTS
- IMPROVEMENTS BY OTHERS



DWG. HD-11

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SCALE 1"=20' DATE JUNE 2022

CONTRACT NO. 502003 SHEET NO. 19 OF 50

PLOTTER: 6/26/2022  
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**TRAFFIC CONTROL PLAN – GENERAL NOTES**

- ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE MONTGOMERY COUNTY DEPARTMENT OF TRANSPORTATION WORK ZONE TRAFFIC CONTROL STANDARDS, THE GENERAL NOTES AND STANDARDS PROVIDED IN CATEGORY "1" OF THE MDT SHA BOOK OF STANDARDS, THE MARYLAND MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MD MUTCD) AND SUBSEQUENT REVISIONS ADOPTED BY THE STATE OF MARYLAND, AND THESE PLANS.
- NO WORK IS TO BEGIN UNTIL ADVANCE WARNING SIGNS, DRUMS AND TEMPORARY PAVEMENT MARKINGS ARE IN PLACE AND OPERATIONAL.
- THE CONTRACTOR SHALL NOTIFY ALL TRANSIT AGENCIES WITH ROUTES IMPACTED BY MOT OPERATIONS AND PROVIDE IMPACT DURATION PRIOR TO THE START OF CONSTRUCTION ACTIVITIES.
- EXCAVATIONS SHALL BE BACKFILLED WITH GRADED AGGREGATE BASE PRIOR TO THE END OF THE WORK DAY IN CONFORMANCE WITH SHA STD. ND. MD 104.01-28.
- FOR OFF-PEAK HOUR WORK ZONES, TYPICAL APPLICATIONS FROM CATEGORY 1 OF MDT SHA BOOK OF STANDARDS FOR HIGHWAY AND INCIDENTAL STRUCTURES IN ADDITION TO THOSE CITED ON THESE PLANS MAY BE REQUIRED, AS DIRECTED BY THE ENGINEER. TYPICAL APPLICATIONS TO BE USED FOR OFF-PEAK HOUR WORK MAY BE MODIFIED AS REQUIRED BASED ON FIELD CONDITIONS, AS DIRECTED BY THE ENGINEER.
- THE SUGGESTED SEQUENCE OF CONSTRUCTION LISTS ONLY MAJOR ITEMS OF WORK AS SHOWN ON THESE PLANS.
- THE CONTRACTOR SHALL COORDINATE WITH PROPERTY OWNERS THROUGHOUT CONSTRUCTION AND SHALL MAINTAIN ACCESS TO ENTRANCES, DRIVEWAYS, AND SIDE STREETS LOCATED WITHIN THE PROJECT LIMITS AT ALL TIMES. IN THE CASE WHERE AN ACCESS NEEDS TO BE CLOSED, THE CONTRACTOR SHALL NOTIFY THE PROPERTY OWNER AT LEAST 72 HOURS IN ADVANCE.
- ALL BARRICADES, SIGNS, AND OTHER TRAFFIC CONTROL DEVICES SHALL BE IN ACCORDANCE WITH THE LATEST VERSION OF THE MARYLAND MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MD MUTCD) AND THE MARYLAND STANDARD SIGN BOOK.
- DRUMS FOR MAINTENANCE OF TRAFFIC ARE SHOWN GRAPHICALLY AND DO NOT REPRESENT THE ACTUAL NUMBER OF DRUMS NEEDED. DRUM AND SIGN SPACING SHALL BE IN ACCORDANCE WITH MONTGOMERY COUNTY'S TEMPORARY TRAFFIC CONTROL STD. NO. TCP-100.01 AND MD SHA STD. NO. 104.01-02.
- CONSTRUCTION EQUIPMENT AND MATERIALS SHALL BE STORED OFF THE TRAVEL LANES AND PEDESTRIAN FACILITIES AT ALL TIMES.
- EXISTING REGULATORY SIGNS IN THE WORK ZONE SHALL BE MAINTAINED AT ALL TIMES AS DIRECTED BY THE ENGINEER. SIGNS THAT ARE NOT APPLICABLE SHALL BE REMOVED OR COMPLETELY COVERED WITH NONTRANSPARENT MATERIAL.
- MAINTAIN POSITIVE DRAINAGE ALONG THE ROADWAY SURFACE THROUGHOUT CONSTRUCTION.
- TEMPORARY PAVEMENT MARKINGS SHALL BE AS SHOWN ON THE PLANS. EXISTING PAVEMENT MARKINGS WHICH ARE NO LONGER APPLICABLE SHALL BE REMOVED AS DIRECTED BY ENGINEER.
- ALL SIGNS ON SIDE STREETS SHALL BE PLACED 150 FEET FROM THE WORK ZONE, OR AS SHOWN ON PLANS SHALL BE 150 FEET (MIN.) FROM THE WORK ZONE, OR AS SHOWN ON THE PLAN AND AS DIRECTED BY THE ENGINEER.
- PERMANENT MARKINGS DAMAGED SHALL BE REPAIRED AT THE DISCRETION OF THE ENGINEER.
- LANE CLOSURES ARE PROHIBITED BETWEEN THE HOURS OF 6 AM TO 9 AM AND 3 PM TO 7 PM.
- THE CONTRACTOR IS TO MAINTAIN ACCESS /EGRESS FOR ALL EMERGENCY VEHICLES AT ALL TIMES.
- INSTALL PORTABLE VARIABLE MESSAGE SIGN (PVMS) 7 DAYS IN ADVANCE OF IMPLEMENTING LANE CLOSURES TO VEIRS MILL ROAD OR SIDE STREETS. PVMS LOCATIONS AND MESSAGES ARE TO BE REVIEWED AND APPROVED BY MCDOT TRAFFIC.

**TEMPORARY TRAFFIC CONTROL TYPICAL APPLICATIONS (TTCTA)**

THE FOLLOWING TTCTA FROM THE MDT SHA'S BOOK OF STANDARDS ARE TO BE FOLLOWED AS APPROPRIATE:

- MD 104.01-02 – SIGN SPACING CHART
- MD 104.01-30B – CHANNELIZATION DEVICE SPACING EQUAL/LESS THAN 40 MPH
- MD 104.01-30C – CHANNELIZATION DEVICE SPACING GREATER THAN 40 MPH
- MD 104.01-30D – CHANNELIZATION DEVICE USAGE CRITERIA TABLE
- MD 104.04-04 – LEFT LANE CLOSURE/DIVIDED UNCON. EQUAL/LESS THAN 40 MPH
- MD 104.04-06 – RIGHT LANE CLOSURE/DIVIDED UNCON. EQUAL/LESS THAN 40 MPH
- MD 104.06-25 – MEDIAN WORK ALL SPEEDS

THE FOLLOWING TTCTA FROM THE MONTGOMERY COUNTY WORK ZONE TRAFFIC CONTROL STANDARDS ARE TO BE FOLLOWED AS APPROPRIATE:

- MCDOT TCP-100.01 – SPACING CHART

**SEQUENCE OF CONSTRUCTION**

PHASE 1: CONSTRUCT SHARED USE PATHS, RETAINING WALLS, PEDESTRIAN RAMPS ALONG EASTBOUND AND WESTBOUND VEIRS MILL ROAD, WORK ZONE ACTIVITIES:

- IMPLEMENT DAILY RIGHT LANE CLOSURES ALONG MD 586 (VEIRS MILL ROAD) EASTBOUND AND WESTBOUND AS SHOWN ON THE TRAFFIC CONTROL PLANS. LIMITS OF DAILY LANE CLOSURES MAY BE ADJUSTED TO ACCOMODATE DAILY WORK ACTIVITIES.
- CONSTRUCT SHARED USE PATHS, RETAINING WALLS, CULVERT EXTENSION, PEDESTRIAN LIGHTING, SIDEWALKS, BUS STOPS AND PEDESTRIAN RAMPS. FLAGGING OPERATIONS AND ADDITIONAL LANE CLOSURES ON SIDE STREETS FOLLOWING THE ALLOWABLE LANE CLOSURE SCHEDULE MAY BE REQUIRED TO COMPLETE CONSTRUCTION OF THE PEDESTRIAN RAMPS, SIDEWALK CONNECTIONS, AND THE CULVERT EXTENSION AT THE RESPECTIVE INTERSECTIONS. CONSTRUCTION OF EACH CORNER OF AN INTERSECTION SHALL BE STAGGERED TO MAINTAIN PEDESTRIAN ACCESS.
- INSTALL NEW SIGNALS AT THE PENDLETON DRIVE AND GALT AVENUE INTERSECTIONS.

PHASE 2: CONSTRUCTION OF MEDIAN CUT-THROUGHS AT GALT, WORKZONE ACTIVITIES:

- IMPLEMENT DAILY LEFT LANE CLOSURES ALONG MD 586 (VEIRS MILL ROAD) EASTBOUND AND WESTBOUND.
- INSTALL MEDIAN CUT-THROUGHS AT THE GALT AVENUE INTERSECTION. ACTIVATE NEW SIGNAL.

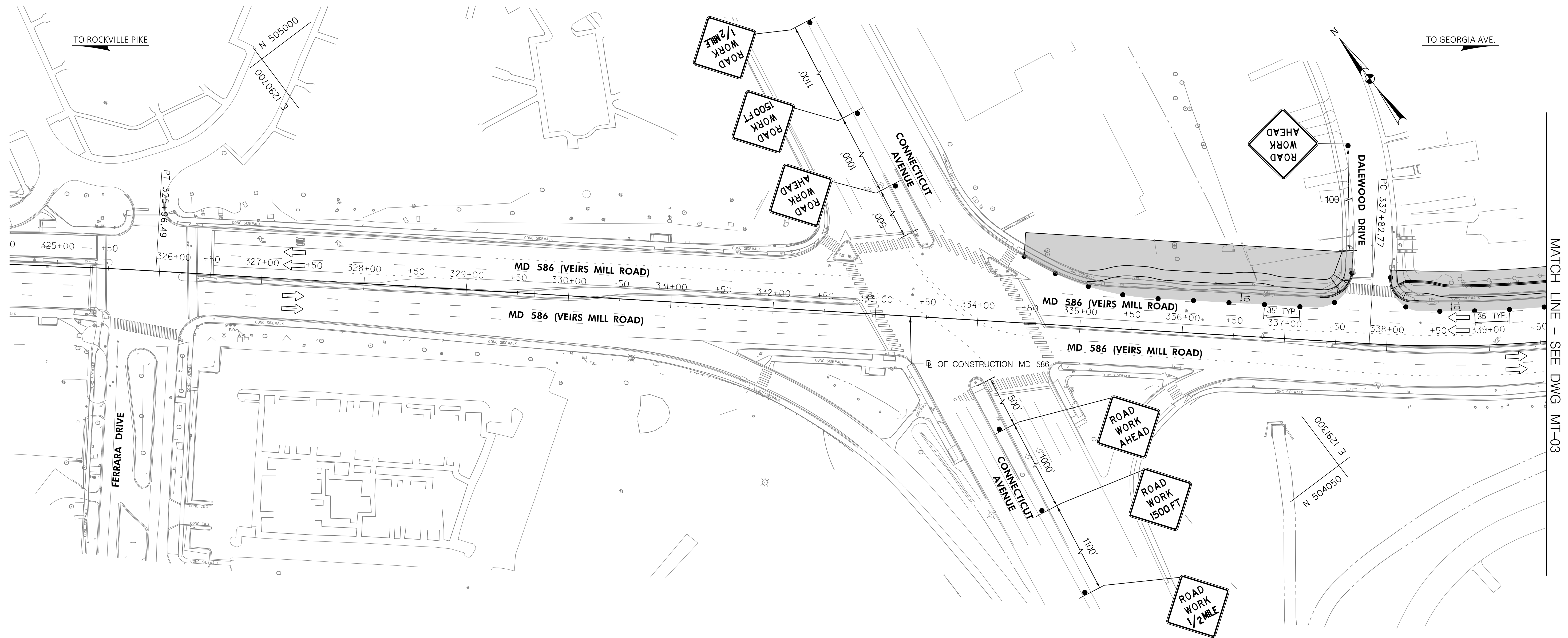
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OWNER/ADDRESS: MONTGOMERY COUNTY DEPARTMENT OF TRANSPORTATION 100 EDISON PARK DRIVE GAITHERSBURG, MARYLAND	CONTACT: DIVISION OF TRANSPORTATION ENGINEERING 240-777-7220 DESIGN SECTION 240-777-7221	MONTGOMERY COUNTY DEPARTMENT OF TRANSPORTATION ROCKVILLE, MARYLAND  RECOMMENDED FOR APPROVAL SEE TITLE SHEET FOR SIGNATURE _____ Chief, Transportation Planning and Design Section _____ Date _____  APPROVED SEE TITLE SHEET FOR SIGNATURE _____ Chief, Division of Transportation Engineering _____ Date _____	MONTGOMERY COUNTY DEPARTMENT OF TRANSPORTATION DIVISION OF TRANSPORTATION ENGINEERING <b>MD 586 (VEIRS MILL RD) BIKE                  AND PEDESTRIAN PRIORITY AREA –                  EASTERN SECTOR</b> TRAFFIC CONTROL PLAN – NOTES SCALE <u>N/A</u> DATE <u>JUNE 2022</u>
NO.      REVISION      DATE      BY		DESIGNED BY <u>KBJ</u> DRAWN BY <u>KBJ</u> CHECKED BY <u>CJB</u>	CONTRACT NO. 502003      SHEET NO. <u>20</u> OF <u>50</u>



MATCH LINE - SEE DWG. MT-03

**LEGEND**

- WORK AREA
- DRUMS
- ARROW PANEL
- TEMPORARY TRAFFIC SIGN AND SUPPORT
- EXISTING TRAFFIC FLOW ARROW
- PROPOSED TEMPORARY TRAFFIC FLOW ARROW
- TYPE III BARRICADE
- PROPOSED TEMPORARY SIGN

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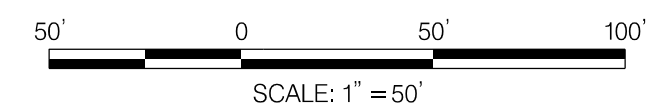
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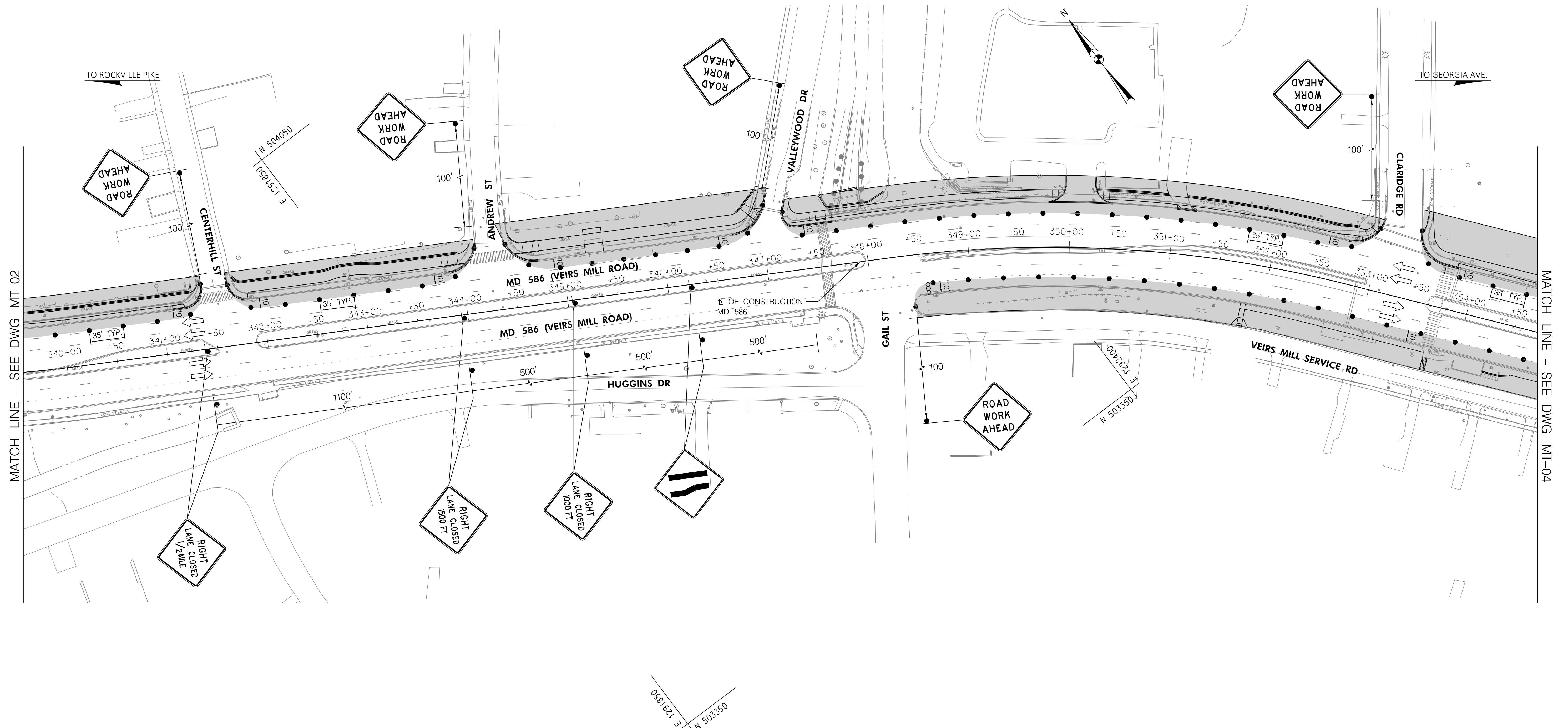
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DWG. MT-02

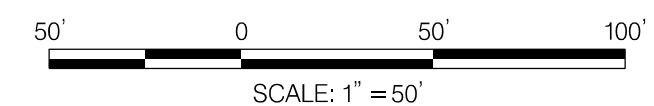


MATCH LINE - SEE DWG MT-02

MATCH LINE - SEE DWG MT-04

**LEGEND**

- WORK AREA
- DRUMS
- ARROW PANEL
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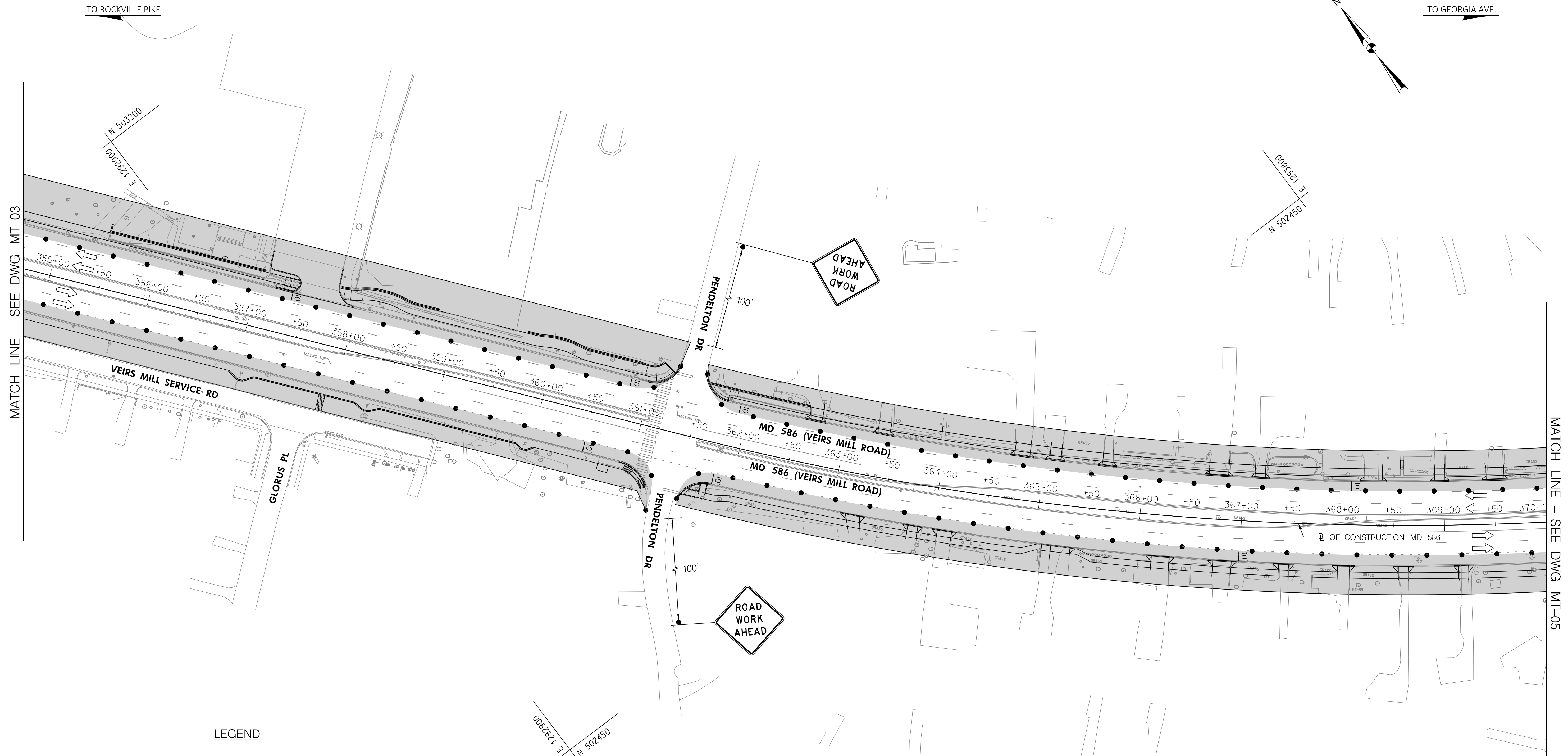
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TO ROCKVILLE PIKE

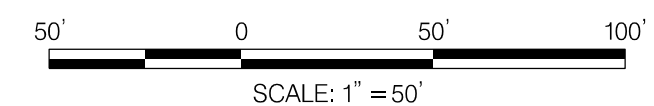
TO GEORGIA AVE.

MATCH LINE - SEE DWG MT-03

MATCH LINE - SEE DWG MT-05

LEGEND

- WORK AREA
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DWG. MT-04

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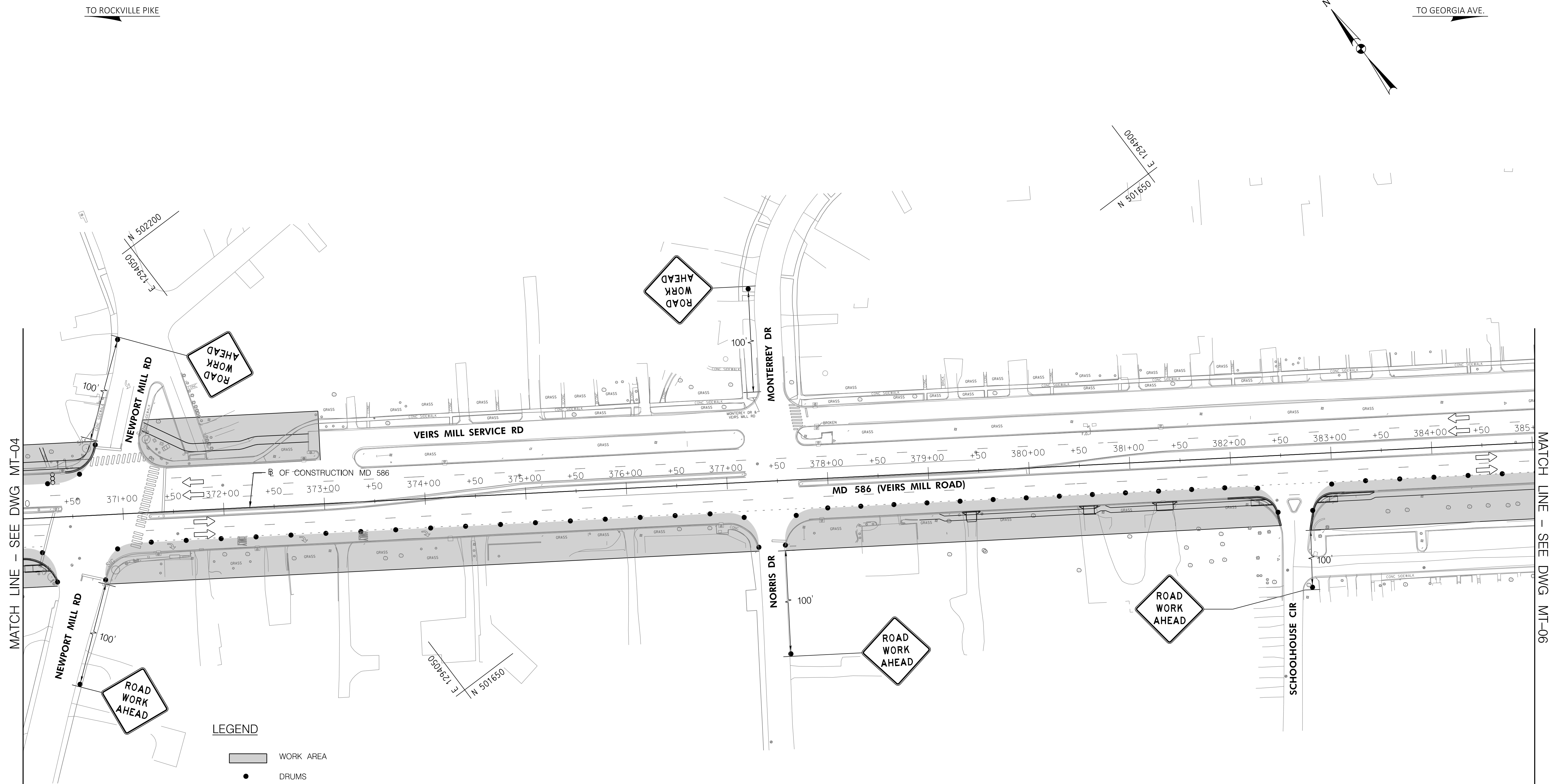
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 TRAFFIC CONTROL PLAN - PHASE 1  
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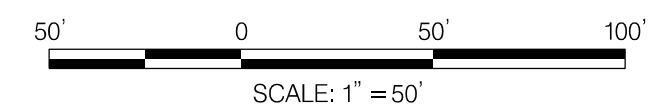


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**LEGEND**

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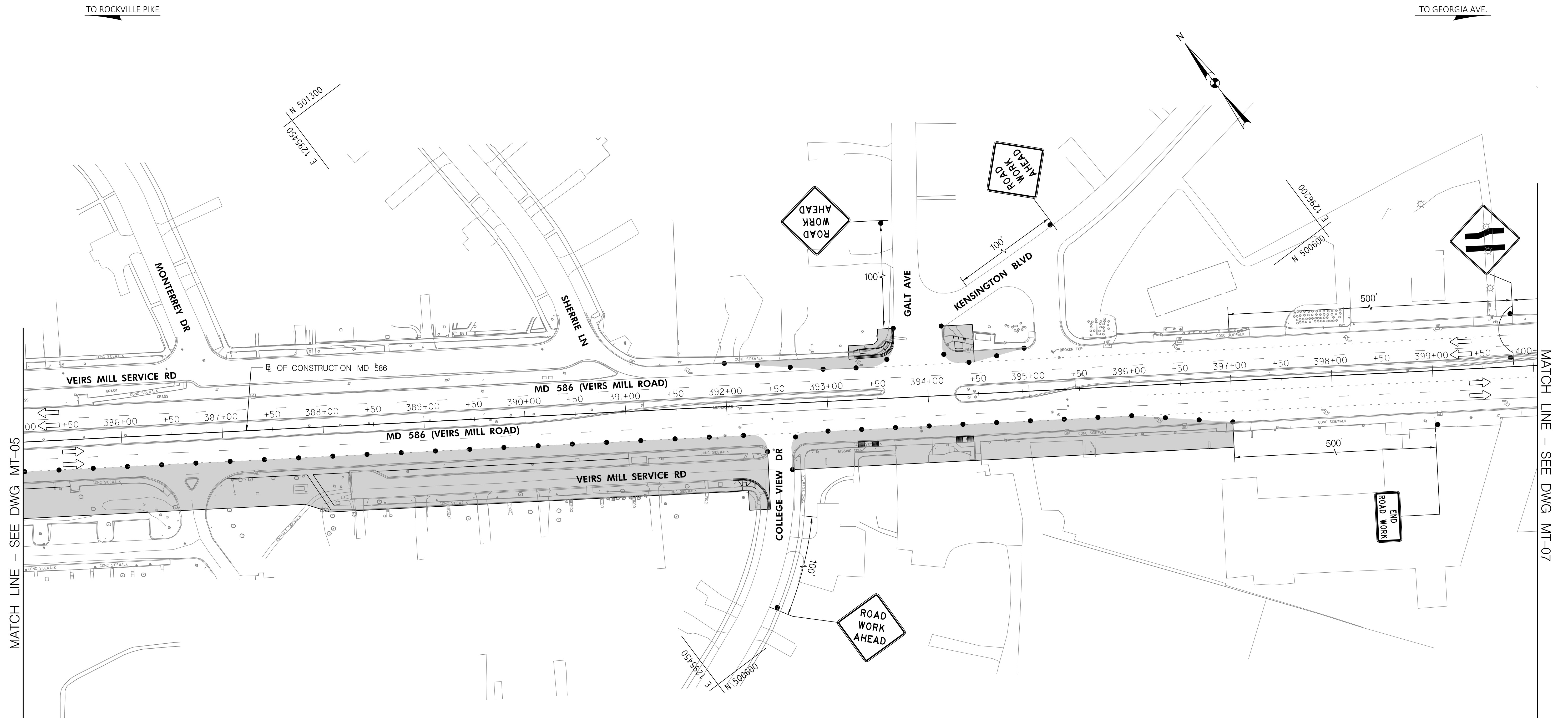
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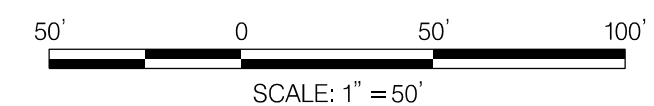
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**TRAFFIC CONTROL PLAN - PHASE 1**  
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**LEGEND**

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DWG. MT-06

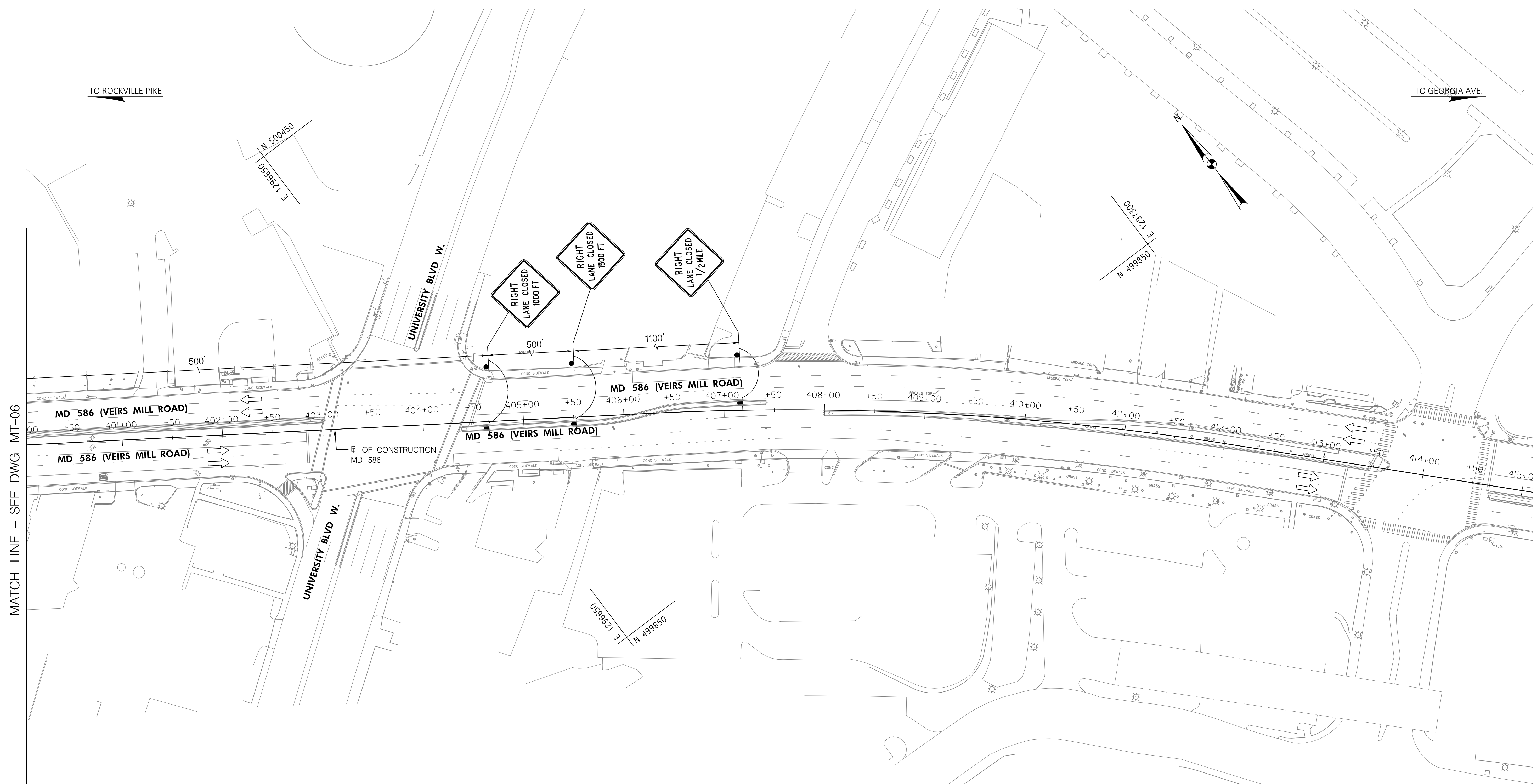
<p><b>OWNER/ADDRESS:</b>                  MONTGOMERY COUNTY                  DEPARTMENT OF TRANSPORTATION                  100 EDISON PARK DRIVE                  GAITHERSBURG, MARYLAND</p> <p><b>CONTACT:</b>                  DIVISION OF TRANSPORTATION                  ENGINEERING                  240-777-7220                  DESIGN SECTION                  240-777-7221</p>	<p style="text-align: center;">MONTGOMERY COUNTY                  DEPARTMENT OF TRANSPORTATION                  ROCKVILLE, MARYLAND</p> <p>RECOMMENDED FOR APPROVAL                  SEE TITLE SHEET FOR SIGNATURE _____ Date _____                  Chief, Transportation Planning and Design Section</p> <p>APPROVED                  SEE TITLE SHEET FOR SIGNATURE _____ Date _____                  Chief, Division of Transportation Engineering</p>	<p style="text-align: center;">MONTGOMERY COUNTY                  DEPARTMENT OF TRANSPORTATION                  DIVISION OF TRANSPORTATION ENGINEERING  <b>MD 586 (VEIRS MILL RD) BIKE                  AND PEDESTRIAN PRIORITY AREA –                  EASTERN SECTOR</b>  <b>TRAFFIC CONTROL PLAN – PHASE 1</b></p> <p>SCALE 1"=50' DATE JUNE 2022</p>																
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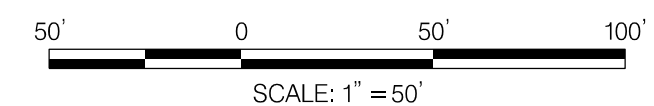
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MATCH LINE - SEE DWG MT-06

**LEGEND**

- WORK AREA
- DRUMS
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DWG. MT-07

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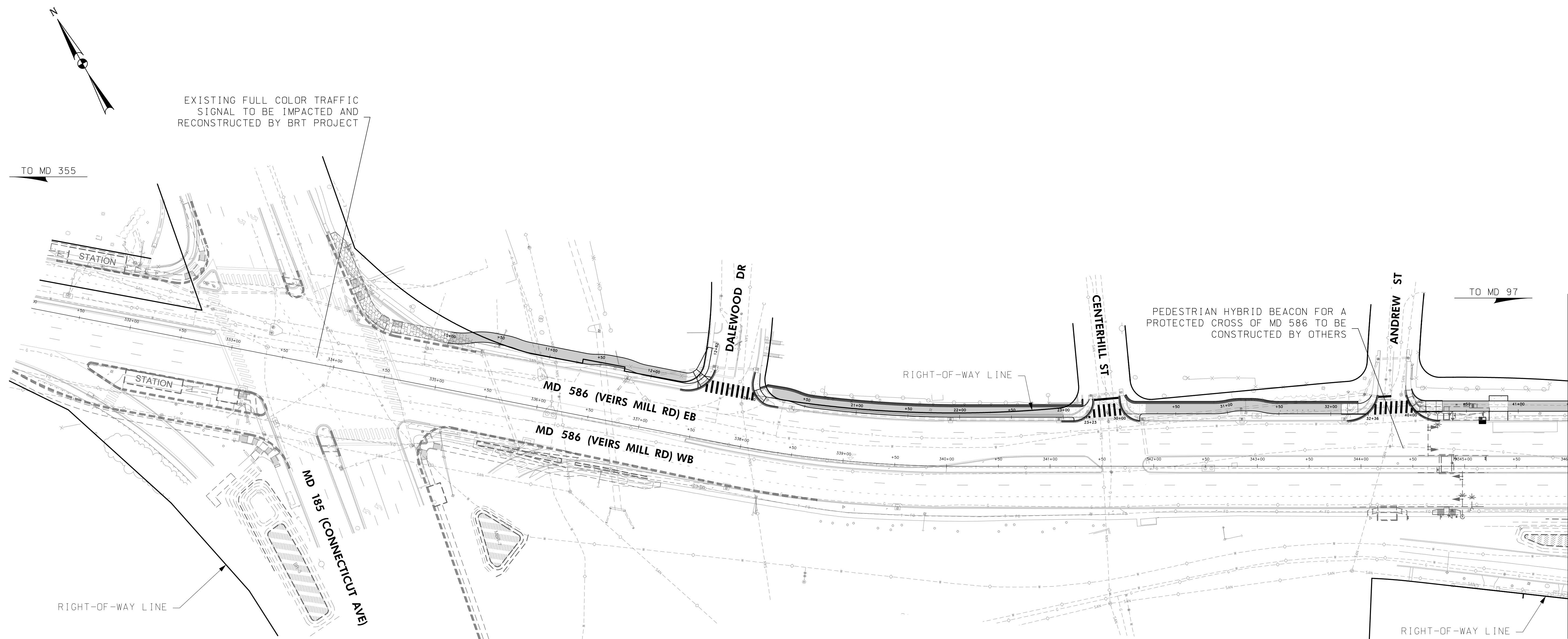
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**TRAFFIC CONTROL PLAN - PHASE 1**  
 SCALE 1"=50' DATE JUNE 2022

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**PAVEMENT MARKING LEGEND**

- A. 5 IN. SOLID WHITE THERMOPLASTIC PAVEMENT MARKING LINE
- B. 5 IN. SOLID YELLOW THERMOPLASTIC PAVEMENT MARKING LINE
- C. 5 IN. SKIP WHITE THERMOPLASTIC PAVEMENT MARKING LINE (10 FT. LINE, 30 FT. GAP)
- D. 5 IN. SKIP WHITE THERMOPLASTIC PAVEMENT MARKING LINE (3 FT. LINE, 9 FT. GAP)
- E. 24 IN. SOLID WHITE PERMANENT PREFORMED PAVEMENT MARKING LINE
- F. WHITE PREFORMED THERMOPLASTIC PAVEMENT MARKING ARROW/SYMBOL
- G. REMOVE EXISTING PAVEMENT MARKING LINE, ANY WIDTH (BY HYDROBLASTING)

**LEGEND**

- EXISTING SIGN TO REMAIN
- EXISTING SIGN TO BE REMOVED
- PROPOSED SIGN
- EXISTING GROUND MOUNTED SIGN
- PROPOSED GROUND MOUNTED SIGN

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TRAFFIC ENGINEERING DESIGN DIVISION

MARYLAND DEPARTMENT OF TRANSPORTATION  
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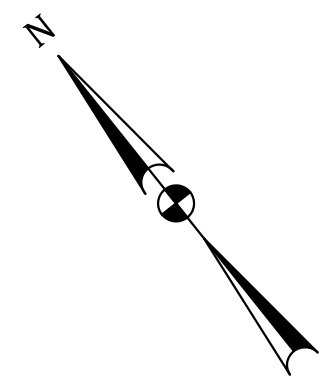
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REVISIONS	SIGNING & PAVEMENT MARKING PLAN		
	SCALE 1" = 50'	DATE JUNE 2022	CONTRACT NO. 502003
	DESIGNED BY SJC	COUNTY MONTGOMERY	
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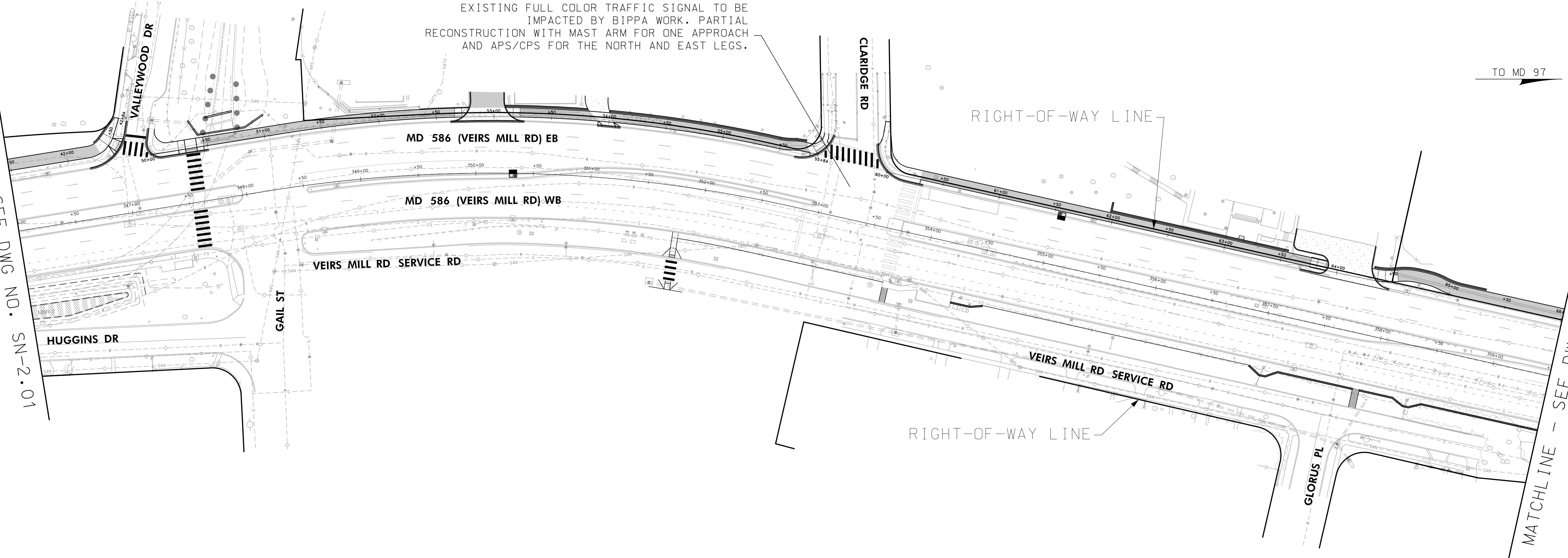
TO MD 355

TO MD 97




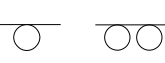
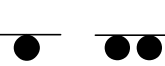
EXISTING FULL COLOR TRAFFIC SIGNAL TO BE IMPACTED BY BIPPA WORK. PARTIAL RECONSTRUCTION WITH MAST ARM FOR ONE APPROACH AND APS/CPS FOR THE NORTH AND EAST LEGS.

MATCHLINE - SEE DWG NO. SN-2.01

MATCHLINE - SEE DWG NO. SN-2.03




**LEGEND**

-  EXISTING SIGN TO REMAIN
-  EXISTING SIGN TO BE REMOVED
-  PROPOSED SIGN
-  EXISTING GROUND MOUNTED SIGN
-  PROPOSED GROUND MOUNTED SIGN

**PAVEMENT MARKING LEGEND**

- A. 5 IN. SOLID WHITE THERMOPLASTIC PAVEMENT MARKING LINE
- B. 5 IN. SOLID YELLOW THERMOPLASTIC PAVEMENT MARKING LINE
- C. 5 IN. SKIP WHITE THERMOPLASTIC PAVEMENT MARKING LINE (10 FT. LINE, 30 FT. GAP)
- D. 5 IN. SKIP WHITE THERMOPLASTIC PAVEMENT MARKING LINE (3 FT. LINE, 9 FT. GAP)
- E. 24 IN. SOLID WHITE PERMANENT PREFORMED PAVEMENT MARKING LINE
- F. WHITE PREFORMED THERMOPLASTIC PAVEMENT MARKING ARROW/SYMBOL
- G. REMOVE EXISTING PAVEMENT MARKING LINE, ANY WIDTH (BY HYDROBLASTING)

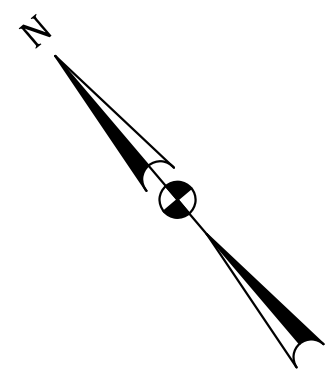
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TRAFFIC ENGINEERING DESIGN DIVISION



MD 586 (VEIRS MILL RD) BIKE AND PEDESTRIAN PRIORITY AREA - EASTERN SECTOR

REVISIONS	SIGNING & PAVEMENT MARKING PLAN		
	SCALE 1" = 50'	DATE JUNE 2022	CONTRACT NO. 502003
	DESIGNED BY SJC	COUNTY MONTGOMERY	
	DRAWN BY SJC	LOGMILE	
	CHECKED BY WFW	TIMS NO.	
	MDE/PRD SEE TITLE SHEET	TOD NO.	
	DRAWING NO. SN-2.02	OF 5	SHEET NO. 28 OF 50

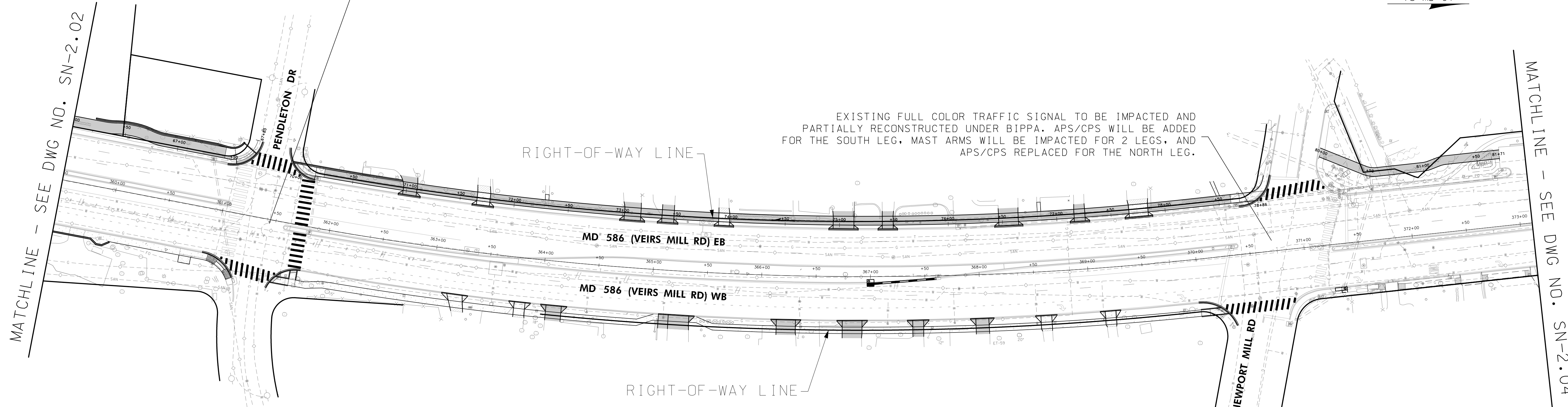
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RECOMMENDED TO HAVE A FULL COLOR SIGNAL WITH APS/CPS FOR ALL LEGS INSTALLED UNDER BIPPA

TO MD 97





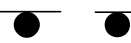


EXISTING FULL COLOR TRAFFIC SIGNAL TO BE IMPACTED AND PARTIALLY RECONSTRUCTED UNDER BIPPA. APS/CPS WILL BE ADDED FOR THE SOUTH LEG, MAST ARMS WILL BE IMPACTED FOR 2 LEGS, AND APS/CPS REPLACED FOR THE NORTH LEG.

MATCHLINE - SEE DWG NO. SN-2.02

MATCHLINE - SEE DWG NO. SN-2.04

LEGEND

-  EXISTING SIGN TO REMAIN
-  EXISTING SIGN TO BE REMOVED
-  PROPOSED SIGN
-  EXISTING GROUND MOUNTED SIGN
-  PROPOSED GROUND MOUNTED SIGN

PAVEMENT MARKING LEGEND

- A. 5 IN. SOLID WHITE THERMOPLASTIC PAVEMENT MARKING LINE
- B. 5 IN. SOLID YELLOW THERMOPLASTIC PAVEMENT MARKING LINE
- C. 5 IN. SKIP WHITE THERMOPLASTIC PAVEMENT MARKING LINE (10 FT. LINE, 30 FT. GAP)
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- E. 24 IN. SOLID WHITE PERMANENT PREFORMED PAVEMENT MARKING LINE
- F. WHITE PREFORMED THERMOPLASTIC PAVEMENT MARKING ARROW/SYMBOL
- G. REMOVE EXISTING PAVEMENT MARKING LINE, ANY WIDTH (BY HYDROBLASTING)



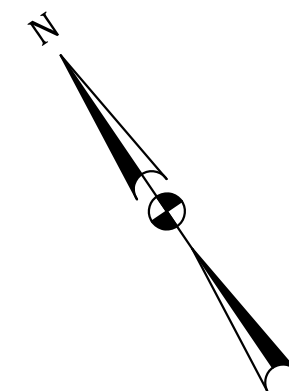
OFFICE OF TRAFFIC & SAFETY  
TRAFFIC ENGINEERING DESIGN DIVISION  
MD 586 (VEIRS MILL RD) BIKE AND PEDESTRIAN PRIORITY AREA - EASTERN SECTOR

REVISIONS	SIGNING & PAVEMENT MARKING PLAN		
	SCALE 1" = 50'	DATE JUNE 2022	CONTRACT NO. 502003
	DESIGNED BY SJC	COUNTY MONTGOMERY	
	DRAWN BY SJC	LOGMILE	
	CHECKED BY WFW	TIMS NO.	
	MDE/PRD SEE TITLE SHEET	TOD NO.	
	DRAWING NO. SN-2.03	OF 5	SHEET NO. 29 OF 50

BY: scallow



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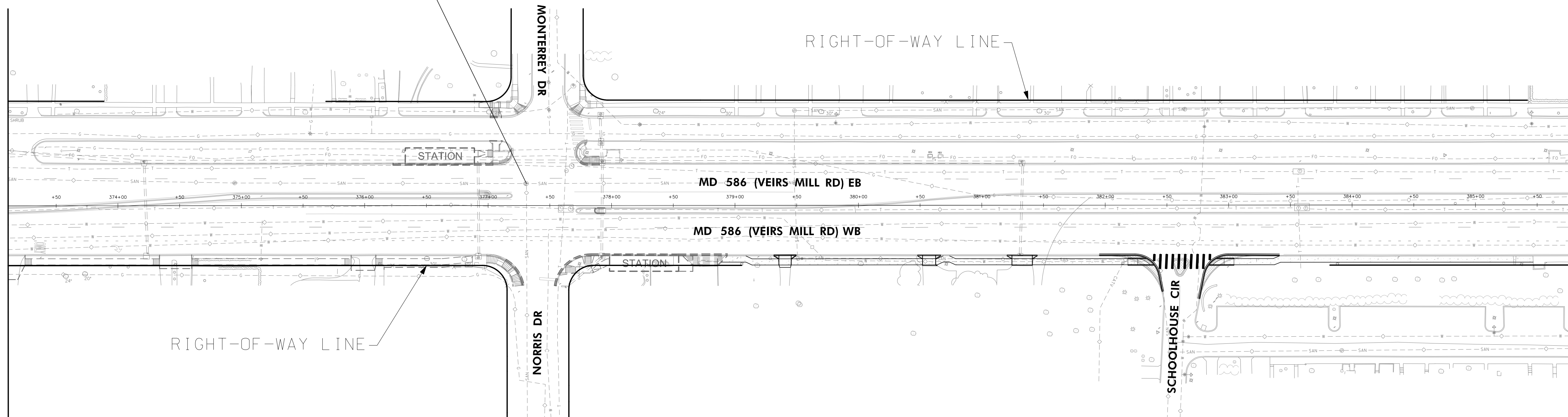
TO MD 355

TO MD 97




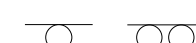
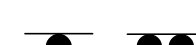
EXISTING FULL COLOR TRAFFIC SIGNAL  
TO BE IMPACTED BY BRT PROJECT.

MATCHLINE - SEE DWG NO. SN-2.03

MATCHLINE - SEE DWG NO. SN-2.05




LEGEND

-  EXISTING SIGN TO REMAIN
-  EXISTING SIGN TO BE REMOVED
-  PROPOSED SIGN
-  EXISTING GROUND MOUNTED SIGN
-  PROPOSED GROUND MOUNTED SIGN

PAVEMENT MARKING LEGEND

- A. 5 IN. SOLID WHITE THERMOPLASTIC PAVEMENT MARKING LINE
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- C. 5 IN. SKIP WHITE THERMOPLASTIC PAVEMENT MARKING LINE (10 FT. LINE, 30 FT. GAP)
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- G. REMOVE EXISTING PAVEMENT MARKING LINE, ANY WIDTH (BY HYDROBLASTING)

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TRAFFIC ENGINEERING DESIGN DIVISION



MARYLAND DEPARTMENT OF TRANSPORTATION  
STATE HIGHWAY ADMINISTRATION

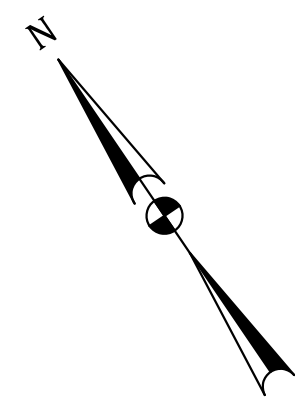
MD 586 (VEIRS MILL RD) BIKE AND PEDESTRIAN PRIORITY AREA - EASTERN SECTOR

REVISIONS	SIGNING & PAVEMENT MARKING PLAN		
	SCALE	1" = 50'	DATE JUNE 2022 CONTRACT NO. 502003
	DESIGNED BY	SJC	COUNTY MONTGOMERY
	DRAWN BY	SJC	LOGMILE
	CHECKED BY	WFW	TIMS NO.
	MDE/PRD	SEE TITLE SHEET	TOD NO.
	DRAWING NO.	SN-2.04 OF 5	SHEET NO. 30 OF 50

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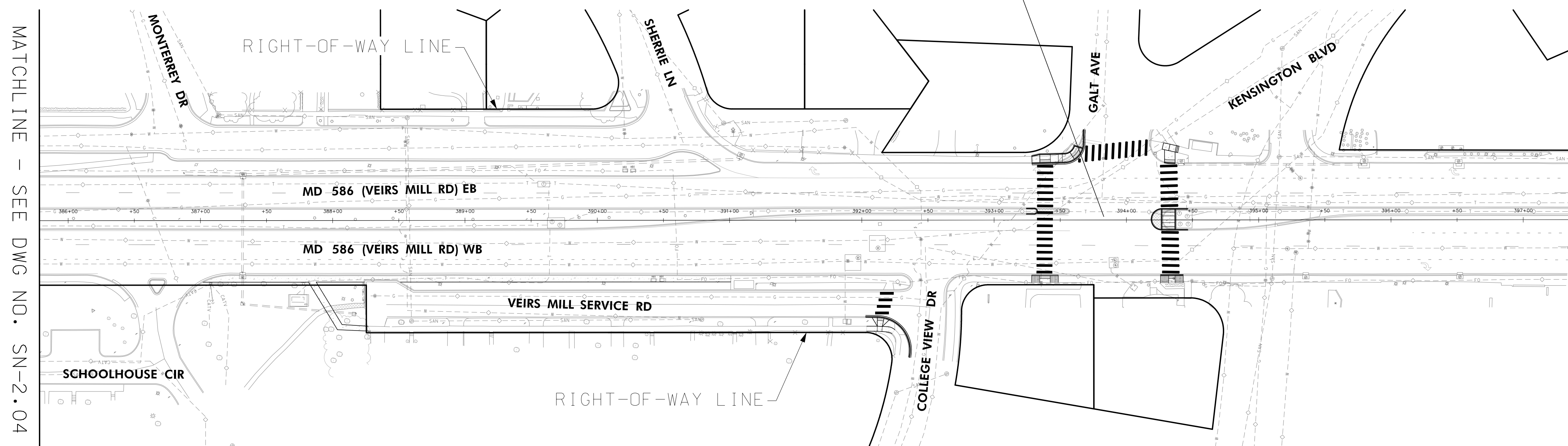
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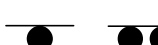
TO MD 97

RECOMMENDED TO HAVE A PEDESTRIAN HYBRID BEACON WITH APS/CPS FOR PROTECTED CROSSINGS OF MD 586 UNDER BIPPA PROJECT



MATCHLINE - SEE DWG NO. SN-2.04


**LEGEND**

-  EXISTING SIGN TO REMAIN
-  EXISTING SIGN TO BE REMOVED
-  PROPOSED SIGN
-  EXISTING GROUND MOUNTED SIGN
-  PROPOSED GROUND MOUNTED SIGN

**PAVEMENT MARKING LEGEND**

- A. 5 IN. SOLID WHITE THERMOPLASTIC PAVEMENT MARKING LINE
- B. 5 IN. SOLID YELLOW THERMOPLASTIC PAVEMENT MARKING LINE
- C. 5 IN. SKIP WHITE THERMOPLASTIC PAVEMENT MARKING LINE (10 FT. LINE, 30 FT. GAP)
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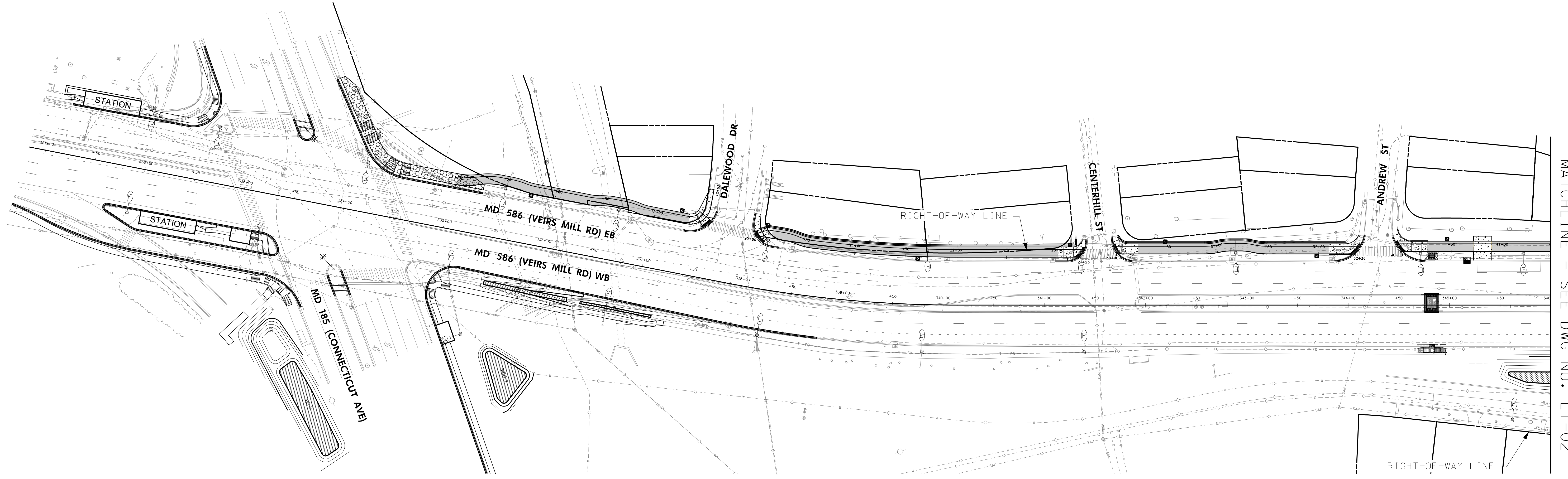
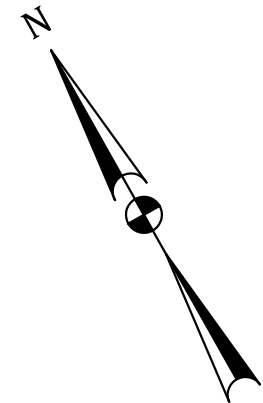
MD 586 (VEIRS MILL RD) BIKE AND PEDESTRIAN PRIORITY AREA - EASTERN SECTOR

REVISIONS	<b>SIGNING &amp; PAVEMENT MARKING PLAN</b>					
	SCALE	1" = 50'	DATE	JUNE 2022	CONTRACT NO.	502003
	DESIGNED BY	SJC	COUNTY	MONTGOMERY		
	DRAWN BY	SJC	LOGMILE			
	CHECKED BY	WFW	TIMS NO.			
	MDE/PRD	SEE TITLE SHEET	TOD NO.			
	DRAWING NO.	SN-2.05	OF	5	SHEET NO.	31 OF 50

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MATCHLINE - SEE DWG NO. LT-02



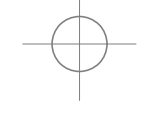
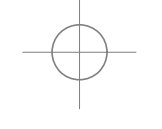
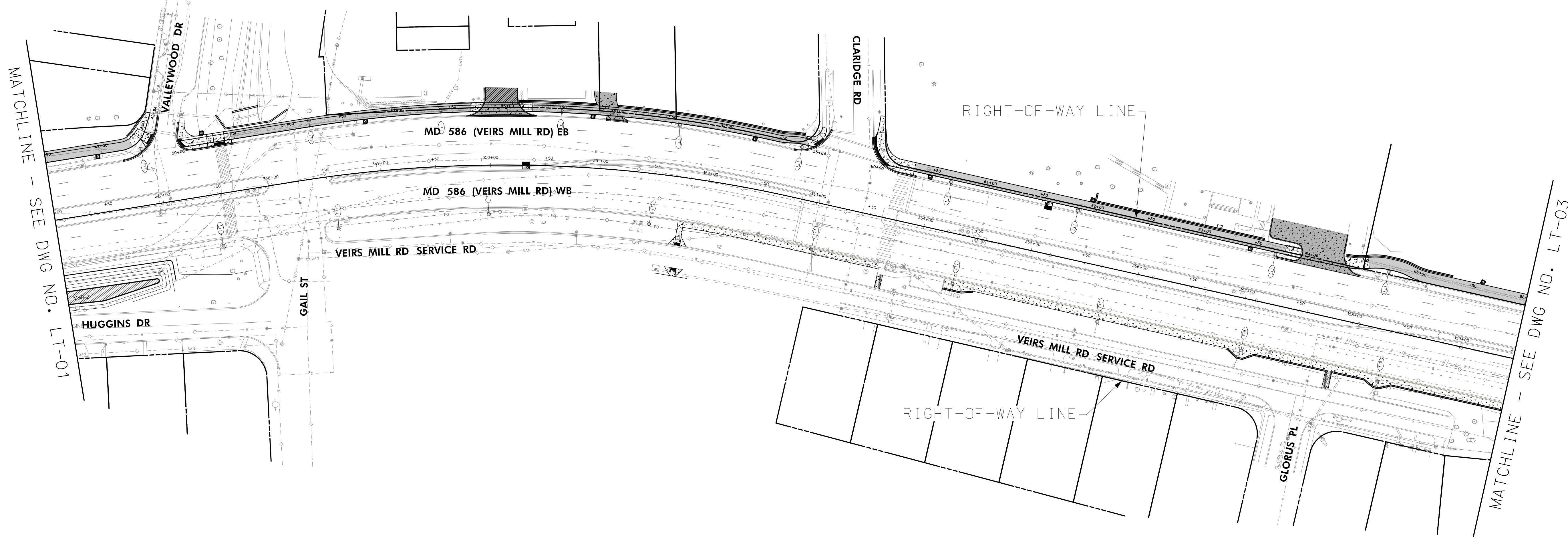
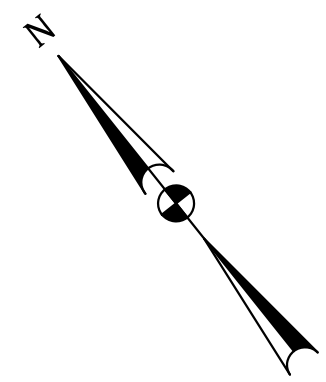
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TRAFFIC ENGINEERING DESIGN DIVISION

MD 586 (VEIRS MILL RD) BIKE  
AND PEDESTRIAN PRIORITY  
AREA - EASTERN SECTOR

REVISIONS		LIGHTING PLAN	
SCALE 1" = 50'		DATE JUNE 2022	CONTRACT NO. 502003
DESIGNED BY SJC	COUNTY MONTGOMERY		
DRAWN BY SJC	LOGMILE		
CHECKED BY WFW	TIMS NO.		
MDE/PRD SEE TITLE SHEET	TOD NO.		
DRAWING NO. LT-01	OF 05	SHEET NO. 32	OF 50

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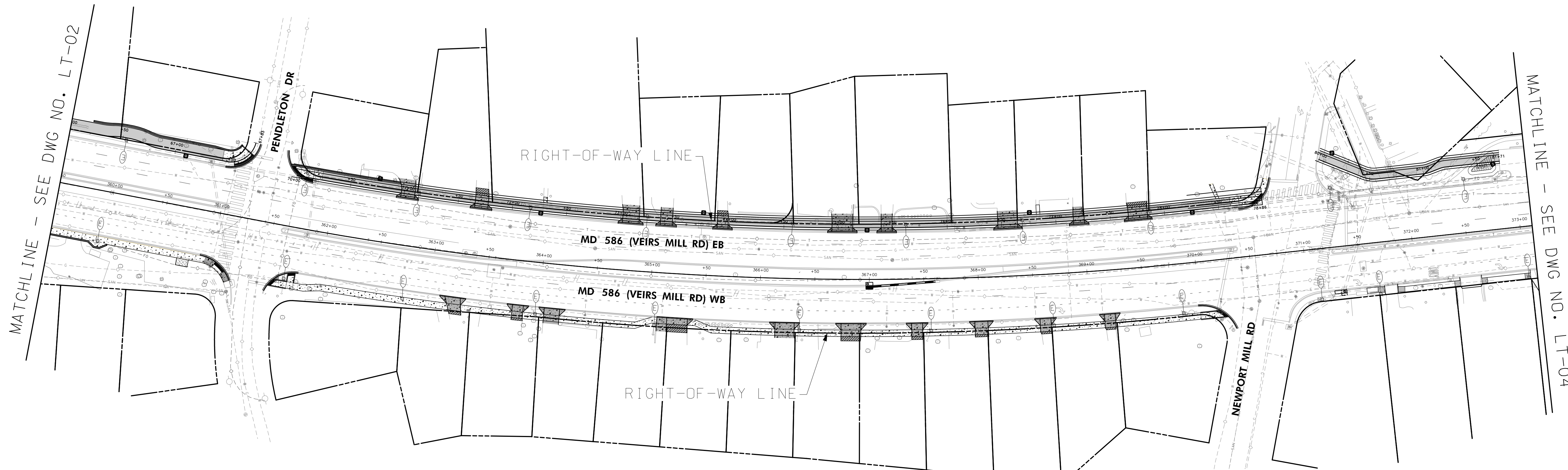
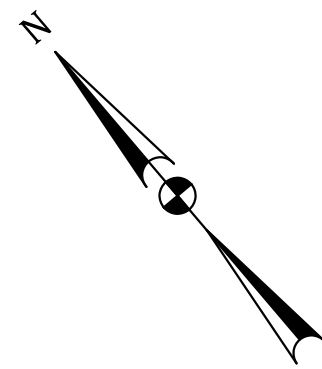
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MD 586 (VEIRS MILL RD) BIKE AND PEDESTRIAN PRIORITY AREA - EASTERN SECTOR

REVISIONS	LIGHTING PLAN					
	SCALE	1" = 50'	DATE	JUNE 2022	CONTRACT NO.	502003
	DESIGNED BY	SJC	COUNTY	MONTGOMERY		
	DRAWN BY	SJC	LOGMILE			
	CHECKED BY	WFW	TIMS NO.			
	MDE/PRD	SEE TITLE SHEET	TOD NO.			
	DRAWING NO.	LT-02	OF	05	SHEET NO.	33 OF 50



MATCHLINE - SEE DWG NO. LT-02

MATCHLINE - SEE DWG NO. LT-04

RIGHT-OF-WAY LINE

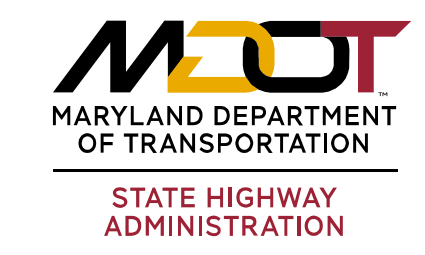
RIGHT-OF-WAY LINE

MD 586 (VEIRS MILL RD) EB

MD 586 (VEIRS MILL RD) WB

PENLETON DR

NEWPORT MILL RD



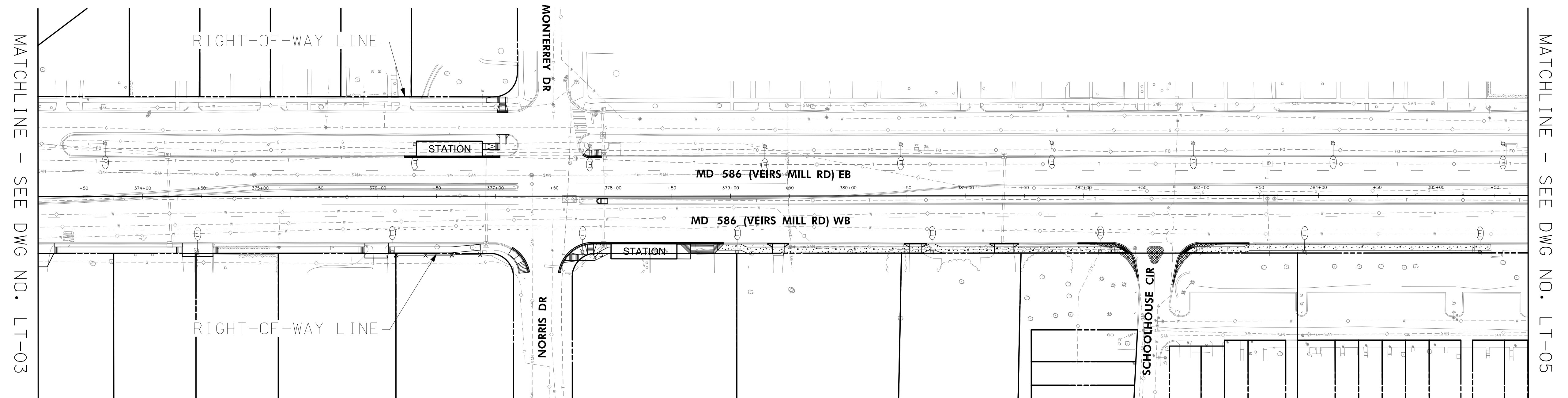
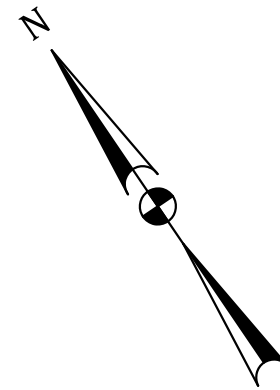
OFFICE OF TRAFFIC & SAFETY  
TRAFFIC ENGINEERING DESIGN DIVISION

MD 586 (VEIRS MILL RD) BIKE  
AND PEDESTRIAN PRIORITY  
AREA - EASTERN SECTOR

REVISIONS		LIGHTING PLAN	
SCALE 1" = 50'		DATE JUNE 2022	CONTRACT NO. 502003
DESIGNED BY SJC	COUNTY MONTGOMERY		
DRAWN BY SJC	LOGMILE		
CHECKED BY WFW	TIMS NO.		
MDE/PRD SEE TITLE SHEET	TOD NO.		
DRAWING NO. LT-03	OF 05	SHEET NO. 34	OF 50

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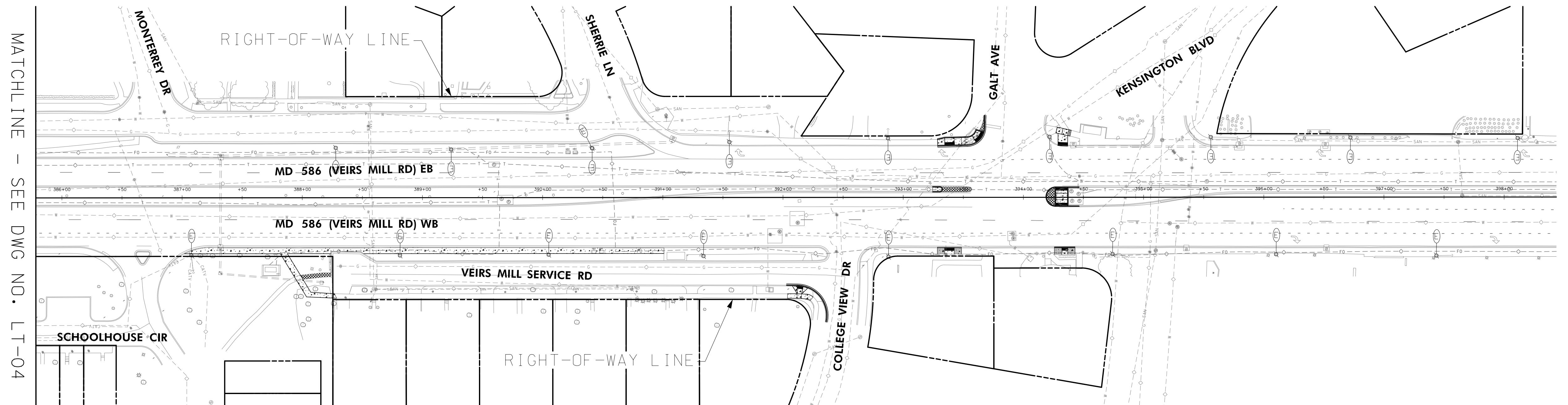
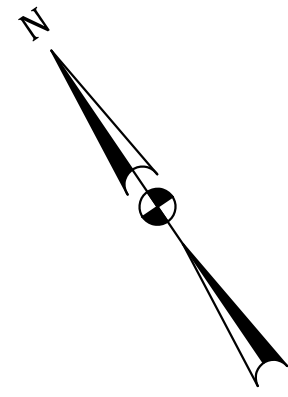
MD 586 (VEIRS MILL RD) BIKE  
AND PEDESTRIAN PRIORITY  
AREA - EASTERN SECTOR

REVISIONS	LIGHTING PLAN					
	SCALE	1" = 50'	DATE	JUNE 2022	CONTRACT NO.	502003
	DESIGNED BY	SJC	COUNTY	MONTGOMERY		
	DRAWN BY	SJC	LOGMILE			
	CHECKED BY	WFW	TIMS NO.			
	MDE/PRD	SEE TITLE SHEET	TOD NO.			
	DRAWING NO.	LT-04	OF	05	SHEET NO.	35 OF 50

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MATCHLINE - SEE DWG NO. LT-04



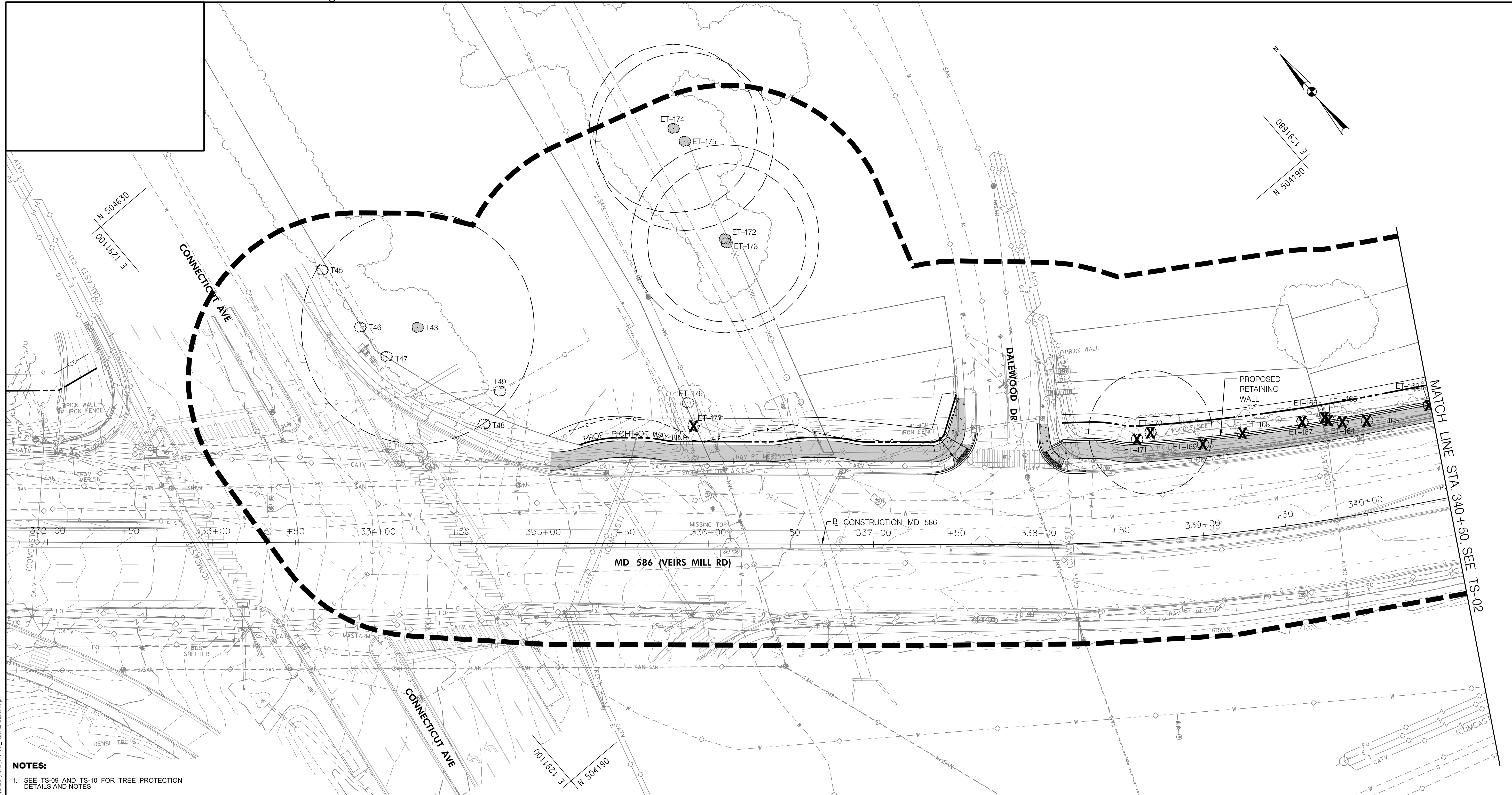
OFFICE OF TRAFFIC & SAFETY  
TRAFFIC ENGINEERING DESIGN DIVISION

MD 586 (VEIRS MILL RD) BIKE  
AND PEDESTRIAN PRIORITY  
AREA - EASTERN SECTOR

REVISIONS		LIGHTING PLAN	
		SCALE	1" = 50'
		DATE	JUNE 2022
		CONTRACT NO.	502003
		DESIGNED BY	SJC
		COUNTY	MONTGOMERY
		DRAWN BY	SJC
		LOGMILE	
		CHECKED BY	WFV
		TIMS NO.	
		MDE/PRD	SEE TITLE SHEET
		TOD NO.	
		DRAWING NO.	LT-05
		OF	05
		SHEET NO.	36
		OF	50

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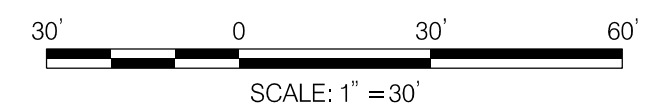


- NOTES:**
- SEE TS-09 AND TS-10 FOR TREE PROTECTION DETAILS AND NOTES.
  - SEE TS-10 THROUGH TS-13 FOR TREE INVENTORY TABLE
  - TREE PROTECTION FENCE SHOWN OUTSIDE OF THE LOD FOR GRAPHICAL PURPOSES ONLY. TPF TO BE INSTALLED AS INDICATED ON ROOT PRUNING DETAIL SHOWN ON TS-09.
  - THE PROJECT IS AT CONCEPT DESIGN AND AN LOD IS CURRENTLY UNAVAILABLE. THE CONCEPT DESIGN AND CUTFILL LINES WERE USED TO ESTIMATE ANTICIPATED TREE IMPACTS. AN LOD WILL BE DEVELOPED WITH THE E&S PLANS AT SEMI-FINAL DESIGN AND WILL BE INCLUDED ON THE TREE SAVE PLANS AT THAT TIME. DETAILED TREE PROTECTION MEASURES, INCLUDING TREE PROTECTION FENCING, ROOT PRUNING, AND TREE PLANKING WILL ALSO BE DEVELOPED AT SEMI-FINAL DESIGN ONCE AN LOD HAS BEEN DEVELOPED.

LEGEND	
T-103	SIGNIFICANT OR ROADSIDE TREE WITH CRITICAL ROOT ZONE
T-102	SPECIMEN TREE WITH CRITICAL ROOT ZONE
T-244	INVENTORIED TREES
TPF	TREE TO BE REMOVED
▲	TREE PROTECTION FENCE
★	TPF SIGN
▲	SPECIMEN TREE SIGN
TP	TREE PLANKING
FS-V/HR-1	STUDY BOUNDARY
FS-V/HR-1	FOREST STAND/HEDGEROW LABEL
~	EXTENT OF FOREST/HEDGEROW CANOPY
~	EXTENT OF TREE CANOPY
— 120 —	EXISTING CONTOURS
- - - - -	EXISTING PROPERTY BOUNDARY
- - - - -	PROPOSED PROPERTY BOUNDARY
ASPHALT SHARED USE PATH	ASPHALT SHARED USE PATH
CONCRETE SIDEWALK	CONCRETE SIDEWALK
CONCRETE DRIVEWAY	CONCRETE DRIVEWAY
PERVIOUS ASPHALT SHARED USE PATH	PERVIOUS ASPHALT SHARED USE PATH
DETECTABLE WARNING SURFACE	DETECTABLE WARNING SURFACE
- - - - -	PROPOSED BRT IMPROVEMENTS
- - - - -	IMPROVEMENTS BY OTHERS

**OWNER/ADDRESS:**  
 MATT JOHNSON, AICP  
 MONTGOMERY COUNTY  
 DEPARTMENT OF TRANSPORTATION  
 100 EDISON PARK DRIVE  
 4th FLOOR  
 GAITHERSBURG, MARYLAND

**CONTACT:**  
 DIVISION OF TRANSPORTATION  
 ENGINEERING  
 240-777-7237

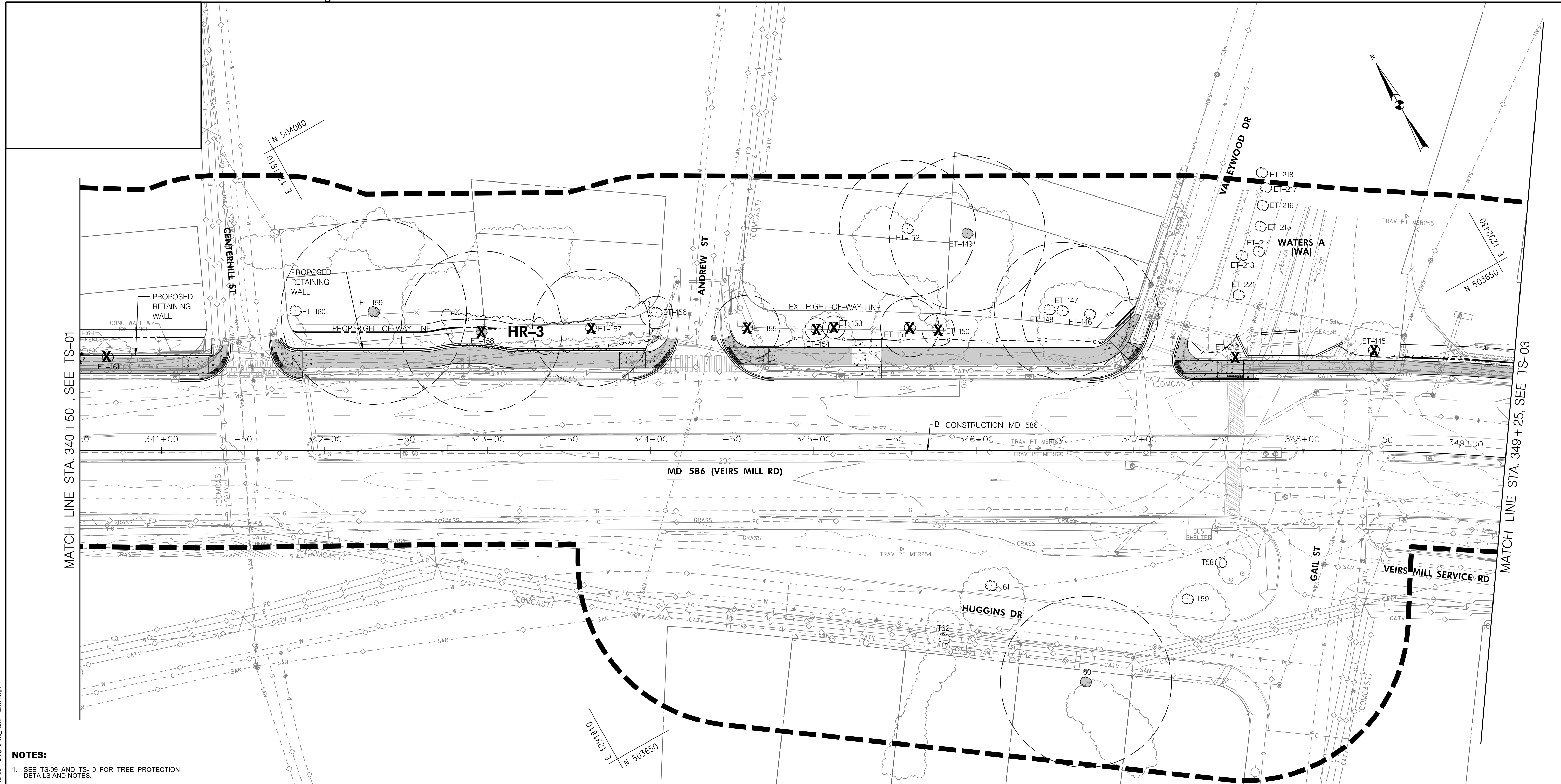


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MONTGOMERY COUNTY DEPARTMENT OF TRANSPORTATION ROCKVILLE, MARYLAND			
RECOMMENDED FOR APPROVAL	SEE TITLE SHEET FOR SIGNATURE	_____	Date
APPROVED	SEE TITLE SHEET FOR SIGNATURE	_____	Date
DESIGNED BY	DRAWN BY	CHECKED BY	_____

MONTGOMERY COUNTY DEPARTMENT OF TRANSPORTATION DIVISION OF TRANSPORTATION ENGINEERING MD 586/VEIRS MILL BIKE AND PEDESTRIAN PRIORITY AREA – EASTERN SECTOR	
PRELIMINARY TREE SAVE PLAN	
BASE MAP #	TAX MAP #
SCALE 1"=30'	DATE JUNE 2022
CONTRACT NO. 502003	SHEET NO. 37 OF 50

NO.	REVISION	DATE	BY



- NOTES:**
- SEE TS-09 AND TS-10 FOR TREE PROTECTION DETAILS AND NOTES.
  - SEE TS-10 THROUGH TS-13 FOR TREE INVENTORY TABLE
  - TREE PROTECTION FENCE SHOWN OUTSIDE OF THE LOD FOR GRAPHICAL PURPOSES ONLY. TPF TO BE INSTALLED AS INDICATED ON ROOT PRUNING DETAIL SHOWN ON TS-09.
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**LEGEND**

T-103	SIGNIFICANT OR ROADSIDE TREE WITH CRITICAL ROOT ZONE	--- 120 ---	EXISTING CONTOURS
T-102	SPECIMEN TREE WITH CRITICAL ROOT ZONE	---	EXISTING PROPERTY BOUNDARY
T-244	INVENTORIED TREES	- - - - -	PROPOSED PROPERTY BOUNDARY
X	TREE TO BE REMOVED	ASPHALT	ASPHALT SHARED USE PATH
TPF	TREE PROTECTION FENCE	CONCRETE	CONCRETE SIDEWALK
▲	TPF SIGN	ASPHALT	ASPHALT DRIVEWAY
★	SPECIMEN TREE SIGN	CONCRETE	CONCRETE DRIVEWAY
TP	TREE PLANKING	PERVIOUS ASPHALT	PERVIOUS ASPHALT SHARED USE PATH
FS-V/HR-1	STUDY BOUNDARY	DETECTABLE	DETECTABLE WARNING SURFACE
	FOREST STAND/HEDGEROW LABEL	---	PROPOSED BRT IMPROVEMENTS
	EXTENT OF FOREST/HEDGEROW CANOPY	---	IMPROVEMENTS BY OTHERS
	EXTENT OF TREE CANOPY		

**OWNER/ADDRESS:**  
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 100 EDISON PARK DRIVE  
 4th FLOOR  
 GAITHERSBURG, MARYLAND

**CONTACT:**  
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 ENGINEERING  
 240-777-7237

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 DEPARTMENT OF TRANSPORTATION  
 DIVISION OF TRANSPORTATION ENGINEERING  
**MD 586/VEIRS MILL BIKE AND PEDESTRIAN PRIORITY AREA - EASTERN SECTOR**

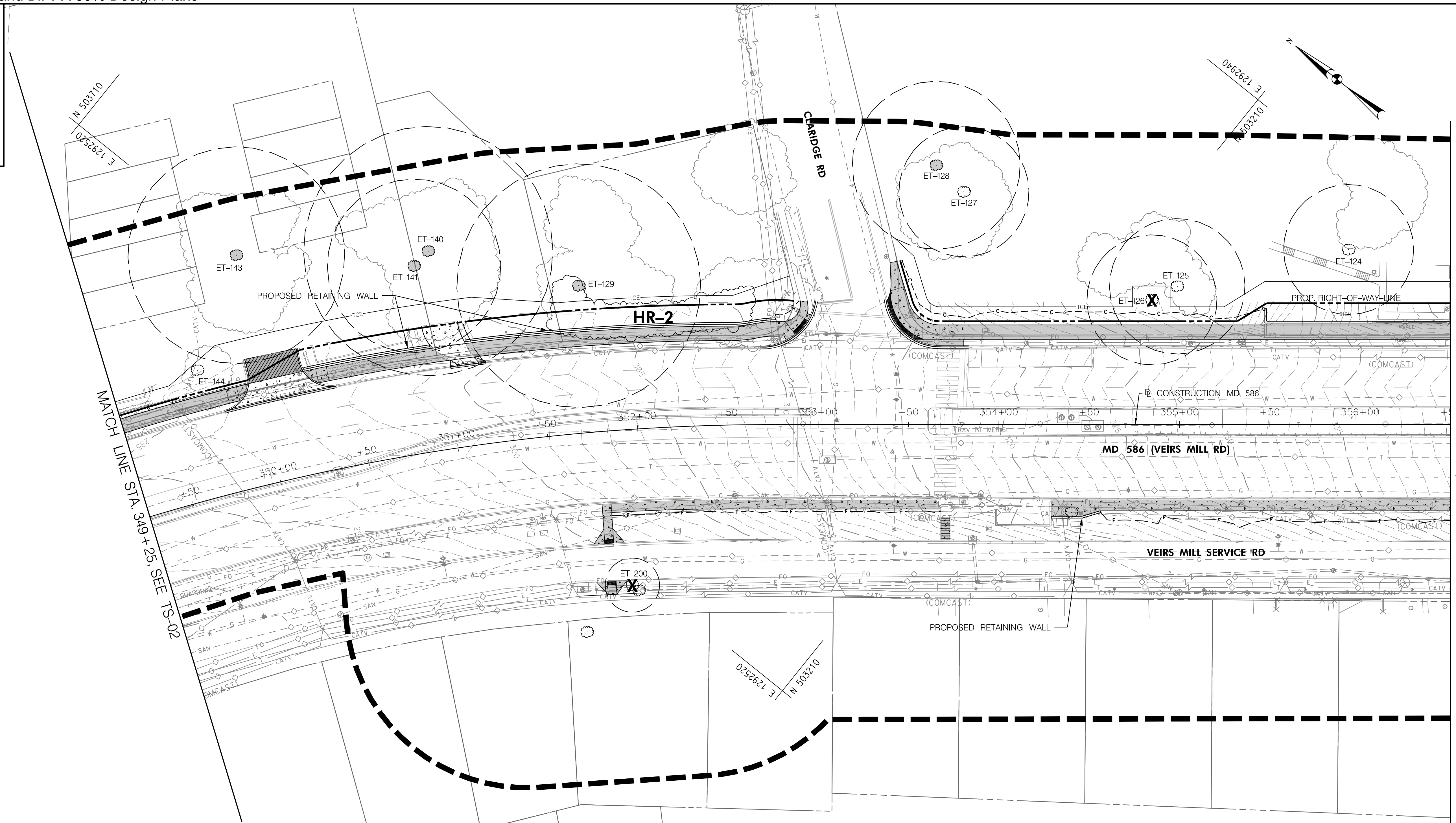
PRELIMINARY TREE SAVE PLAN

BASE MAP # \_\_\_\_\_ TAX MAP # \_\_\_\_\_  
 SCALE 1"=30' DATE JUNE 2022

CONTRACT NO. 502003 SHEET NO. 38 OF 50

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**NOTES:**

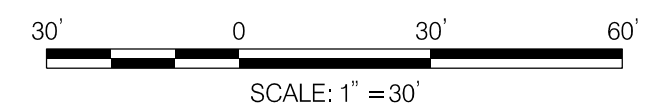
- SEE TS-09 AND TS-10 FOR TREE PROTECTION DETAILS AND NOTES.
- SEE TS-10 THROUGH TS-13 FOR TREE INVENTORY TABLE.
- TREE PROTECTION FENCE SHOWN OUTSIDE OF THE LOD FOR GRAPHICAL PURPOSES ONLY. TPF TO BE INSTALLED AS INDICATED ON ROOT PRUNING DETAIL SHOWN ON TS-09.
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**LEGEND**

T-103		SIGNIFICANT OR ROADSIDE TREE WITH CRITICAL ROOT ZONE	--- 120 ---	EXISTING CONTOURS
T-102		SPECIMEN TREE WITH CRITICAL ROOT ZONE	---	EXISTING PROPERTY BOUNDARY
T-244		INVENTORIED TREES	- - - - -	PROPOSED PROPERTY BOUNDARY
		TREE TO BE REMOVED		ASPHALT SHARED USE PATH
		TREE PROTECTION FENCE		CONCRETE SIDEWALK
		TPF SIGN		ASPHALT DRIVEWAY
		SPECIMEN TREE SIGN		CONCRETE DRIVEWAY
		TREE PLANKING		PERVIOUS ASPHALT SHARED USE PATH
		STUDY BOUNDARY		DETECTABLE WARNING SURFACE
FS-V/HR-1		FOREST STAND/HEDGEROW LABEL	---	PROPOSED BRT IMPROVEMENTS
		EXTENT OF FOREST/HEDGEROW CANOPY	---	IMPROVEMENTS BY OTHERS
		EXTENT OF TREE CANOPY		

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**MD 586/VEIRS MILL BIKE AND PEDESTRIAN  
 PRIORITY AREA - EASTERN SECTOR**

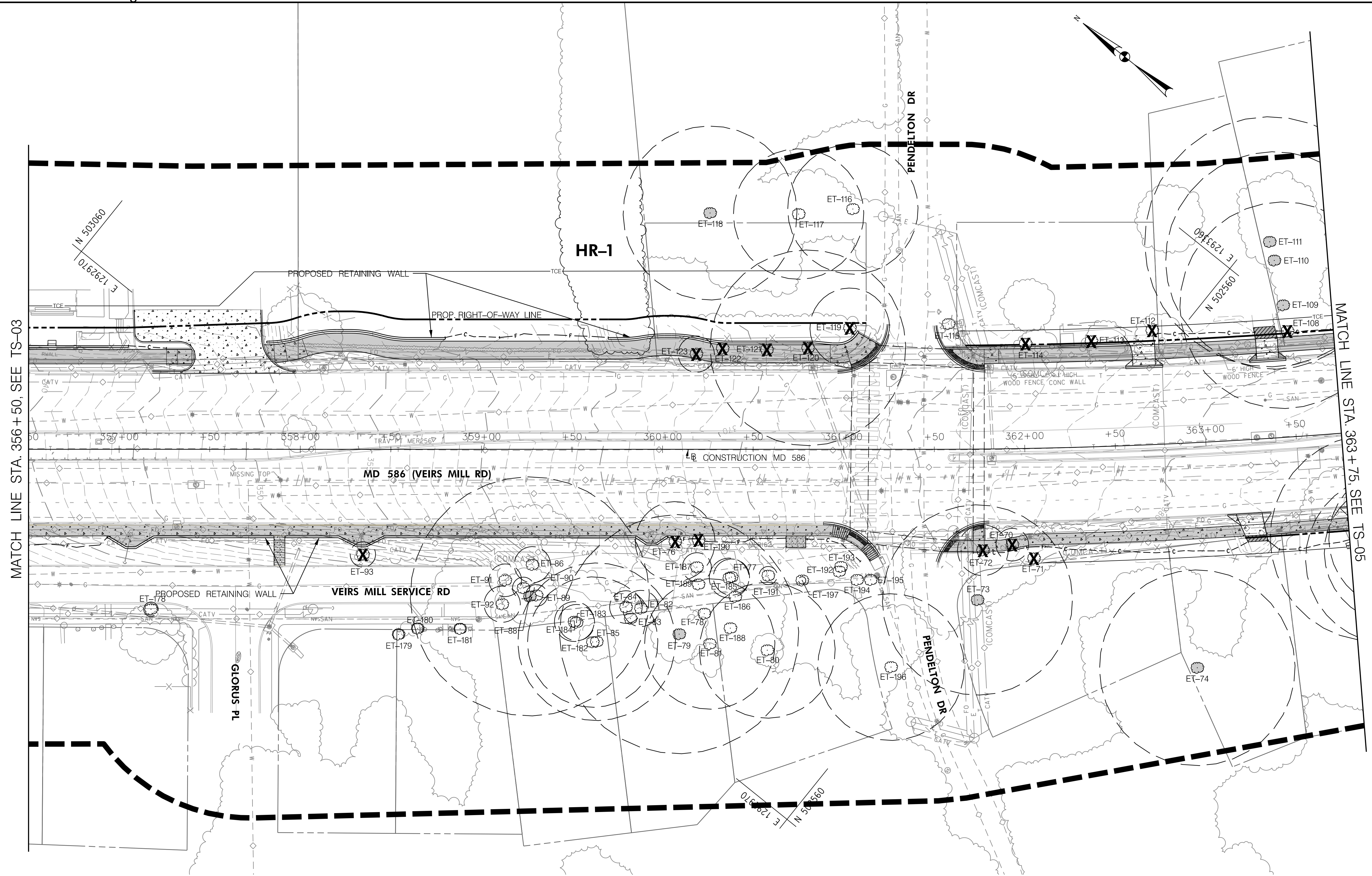
PRELIMINARY TREE SAVE PLAN  
 BASE MAP # \_\_\_\_\_ TAX MAP # \_\_\_\_\_  
 SCALE 1"=30' DATE JUNE 2022

CONTRACT NO. 502003 SHEET NO. 39 OF 50

PLOTTER: 6/26/2024  
 FILE: \\V:\k\kcc\m\16\16\16\Projects\2020\20207\_MCDOT\Temp\1\Task\_11\_Veirs\_Mill\_BiPPA\_Eastern\_Sector\CADD\Plan\02-003\_VeirsMill\_Eastern.dgn

MATCH LINE STA. 356+50. SEE TS-04

DWG. TS-03

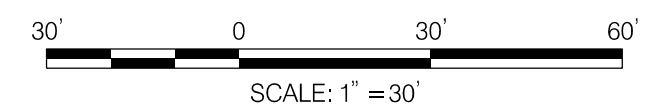


MATCH LINE STA. 356+50, SEE TS-03

MATCH LINE STA. 363+75, SEE TS-05

- NOTES:**
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LEGEND	
T-103	SIGNIFICANT OR ROADSIDE TREE WITH CRITICAL ROOT ZONE
T-102	SPECIMEN TREE WITH CRITICAL ROOT ZONE
T-244	INVENTORIED TREES
X	TREE TO BE REMOVED
TPF	TREE PROTECTION FENCE
▲	TPF SIGN
★	SPECIMEN TREE SIGN
TP	TREE PLANKING
FS-V/HR-1	FOREST STAND/HEDGEROW LABEL
Wavy line	EXTENT OF FOREST/HEDGEROW CANOPY
Wavy line	EXTENT OF TREE CANOPY
--- 120 ---	EXISTING CONTOURS
---	EXISTING PROPERTY BOUNDARY
- - - - -	PROPOSED PROPERTY BOUNDARY
ASPHALT	ASPHALT SHARED USE PATH
CONCRETE	CONCRETE SIDEWALK
ASPHALT DRIVEWAY	ASPHALT DRIVEWAY
CONCRETE DRIVEWAY	CONCRETE DRIVEWAY
PERVIOUS ASPHALT	PERVIOUS ASPHALT SHARED USE PATH
DETECTABLE WARNING SURFACE	DETECTABLE WARNING SURFACE
PROPOSED BRT IMPROVEMENTS	PROPOSED BRT IMPROVEMENTS
IMPROVEMENTS BY OTHERS	IMPROVEMENTS BY OTHERS



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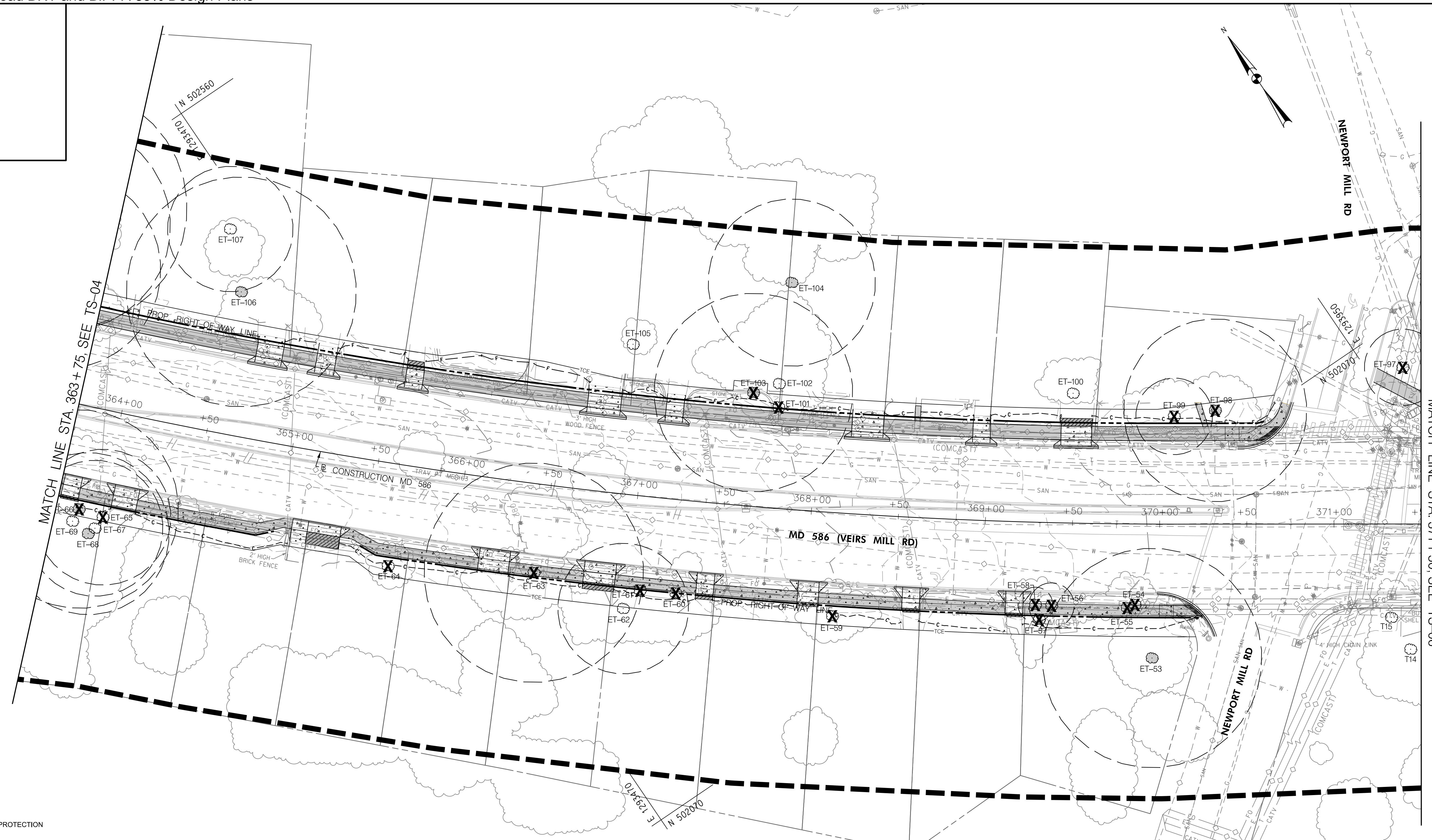
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**MD 586/VEIRS MILL BIKE AND PEDESTRIAN  
 PRIORITY AREA - EASTERN SECTOR**

PRELIMINARY TREE SAVE PLAN

BASE MAP # \_\_\_\_\_ TAX MAP # \_\_\_\_\_  
 SCALE 1"=30' DATE JUNE 2022

CONTRACT NO. 502003 SHEET NO. 40 OF 50

DWG. TS-04

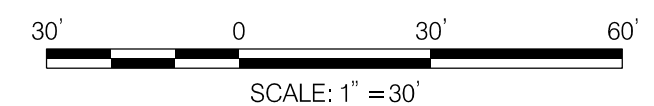


MATCH LINE STA 363+75. SEE TS-04

MATCH LINE STA 371+50. SEE TS-06

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LEGEND	
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T-102	SPECIMEN TREE WITH CRITICAL ROOT ZONE
T-244	INVENTORIED TREES
TPF	TREE TO BE REMOVED
▲	TREE PROTECTION FENCE
★	TPF SIGN
TP	SPECIMEN TREE SIGN
TP	TREE PLANKING
FS-V/HR-1	STUDY BOUNDARY
FS-V/HR-1	FOREST STAND/HEDGEROW LABEL
~	EXTENT OF FOREST/HEDGEROW CANOPY
~	EXTENT OF TREE CANOPY
— 120 —	EXISTING CONTOURS
- - - - -	EXISTING PROPERTY BOUNDARY
- - - - -	PROPOSED PROPERTY BOUNDARY
[Pattern]	ASPHALT SHARED USE PATH
[Pattern]	CONCRETE SIDEWALK
[Pattern]	ASPHALT DRIVEWAY
[Pattern]	CONCRETE DRIVEWAY
[Pattern]	PERVIOUS ASPHALT SHARED USE PATH
[Pattern]	DETECTABLE WARNING SURFACE
- - - - -	PROPOSED BRT IMPROVEMENTS
- - - - -	IMPROVEMENTS BY OTHERS



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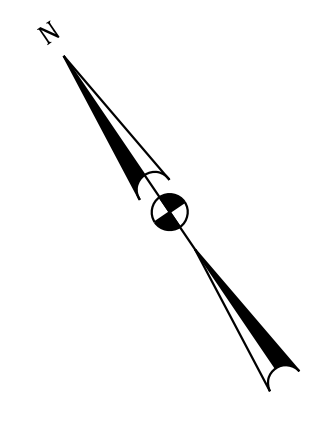
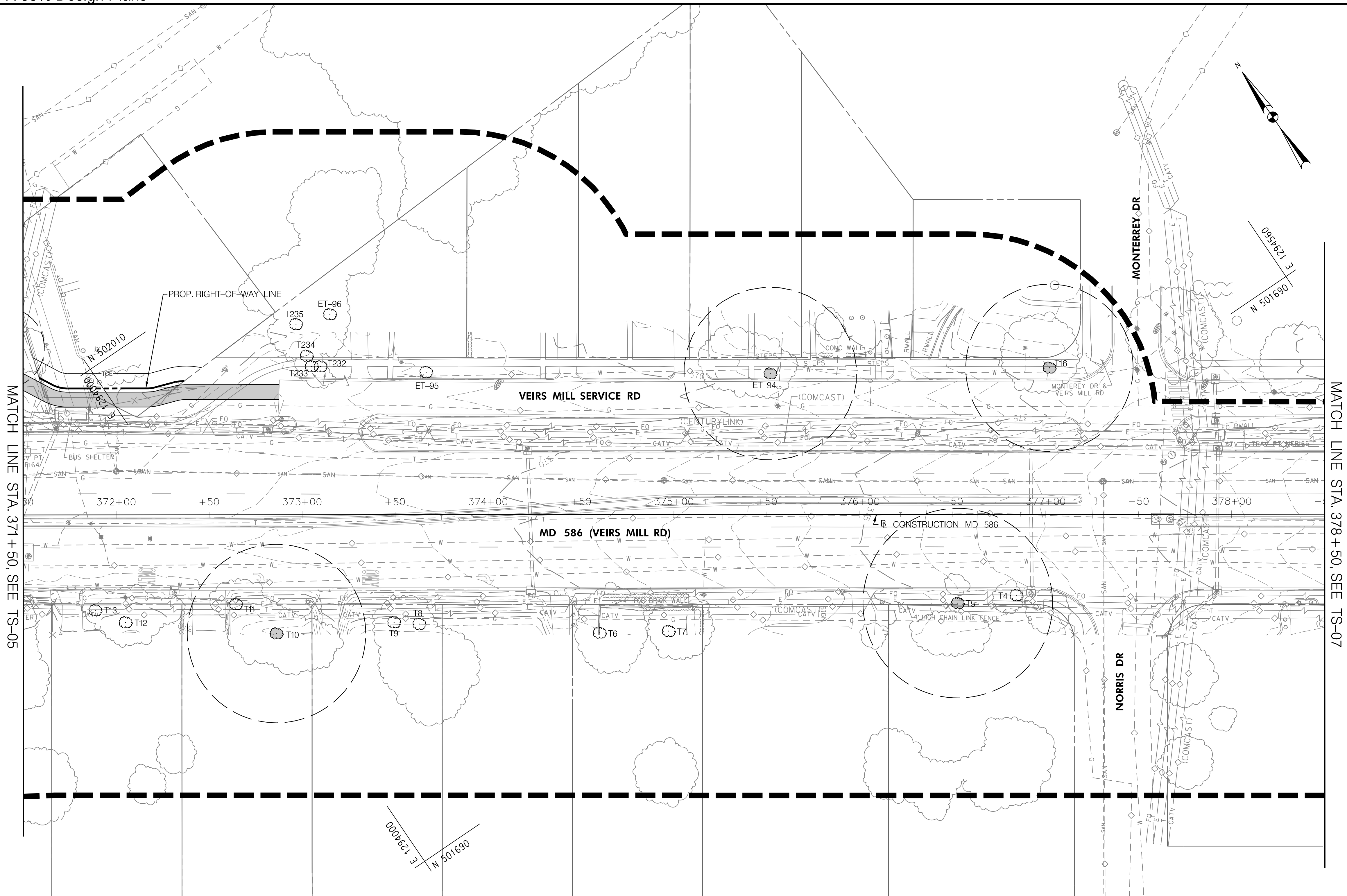
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**MD 586/VEIRS MILL BIKE AND PEDESTRIAN  
 PRIORITY AREA – EASTERN SECTOR**

PRELIMINARY TREE SAVE PLAN

BASE MAP # \_\_\_\_\_ TAX MAP # \_\_\_\_\_  
 SCALE 1"=30' DATE JUNE 2022

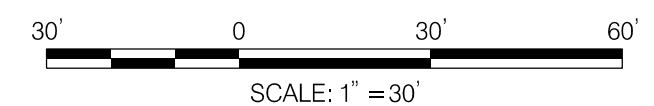
CONTRACT NO. 502003 SHEET NO. 41 OF 50

DWG. TS-05



- NOTES:**
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LEGEND	
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T-102	SPECIMEN TREE WITH CRITICAL ROOT ZONE
T-244	INVENTORIED TREES
TPF	TREE TO BE REMOVED
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TP	TREE PLANKING
FS-V/HR-1	STUDY BOUNDARY
FS-V/HR-1	FOREST STAND/HEDGEROW LABEL
~	EXTENT OF FOREST/HEDGEROW CANOPY
~	EXTENT OF TREE CANOPY
— 120 —	EXISTING CONTOURS
---	EXISTING PROPERTY BOUNDARY
- - - - -	PROPOSED PROPERTY BOUNDARY
[Pattern]	ASPHALT SHARED USE PATH
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[Pattern]	ASPHALT DRIVEWAY
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[Pattern]	DETECTABLE WARNING SURFACE
---	PROPOSED BRT IMPROVEMENTS
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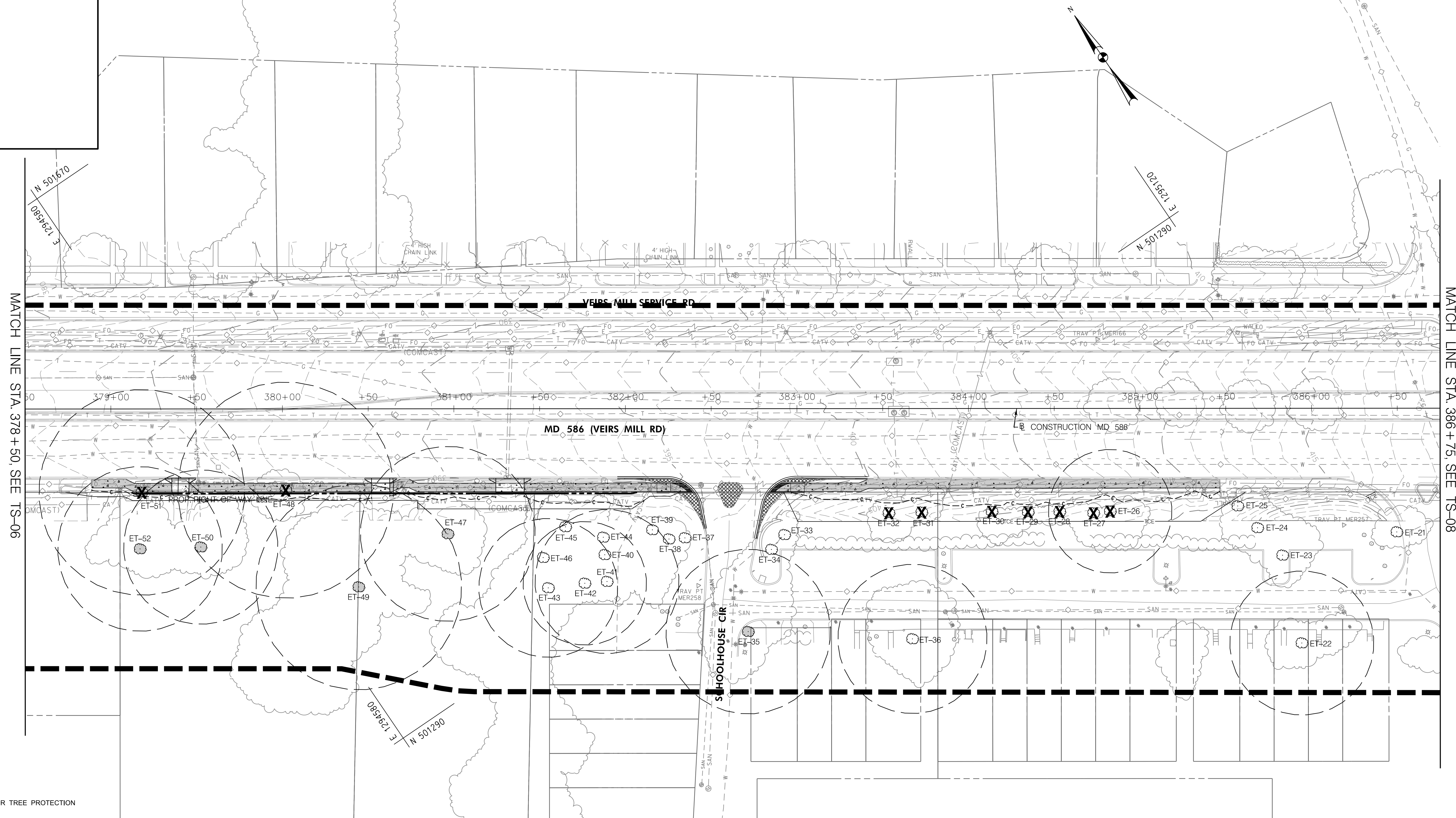
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**MD 586/VEIRS MILL BIKE AND PEDESTRIAN PRIORITY AREA – EASTERN SECTOR**

PRELIMINARY TREE SAVE PLAN

BASE MAP # \_\_\_\_\_ TAX MAP # \_\_\_\_\_  
 SCALE 1"=30' DATE JUNE 2022

CONTRACT NO. 502003 SHEET NO. 42 OF 50

PLOTTER: 6/26/2022  
 FILE: \\V:\kck\mcm\1\A\Chen\Projects\2020\20207\_MCDOT\Temp\Task\_11\_Veirs\_MillBiPPA\_Eastern\_Sector\CADD\Plan\0712-00g\_VeirsMill\_Eastern.dgn

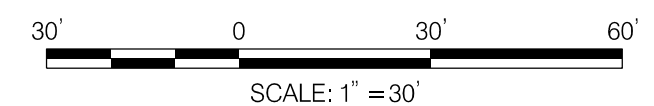


MATCH LINE STA. 378 + 50, SEE TS-06

MATCH LINE STA. 386 + 75, SEE TS-08

- NOTES:**
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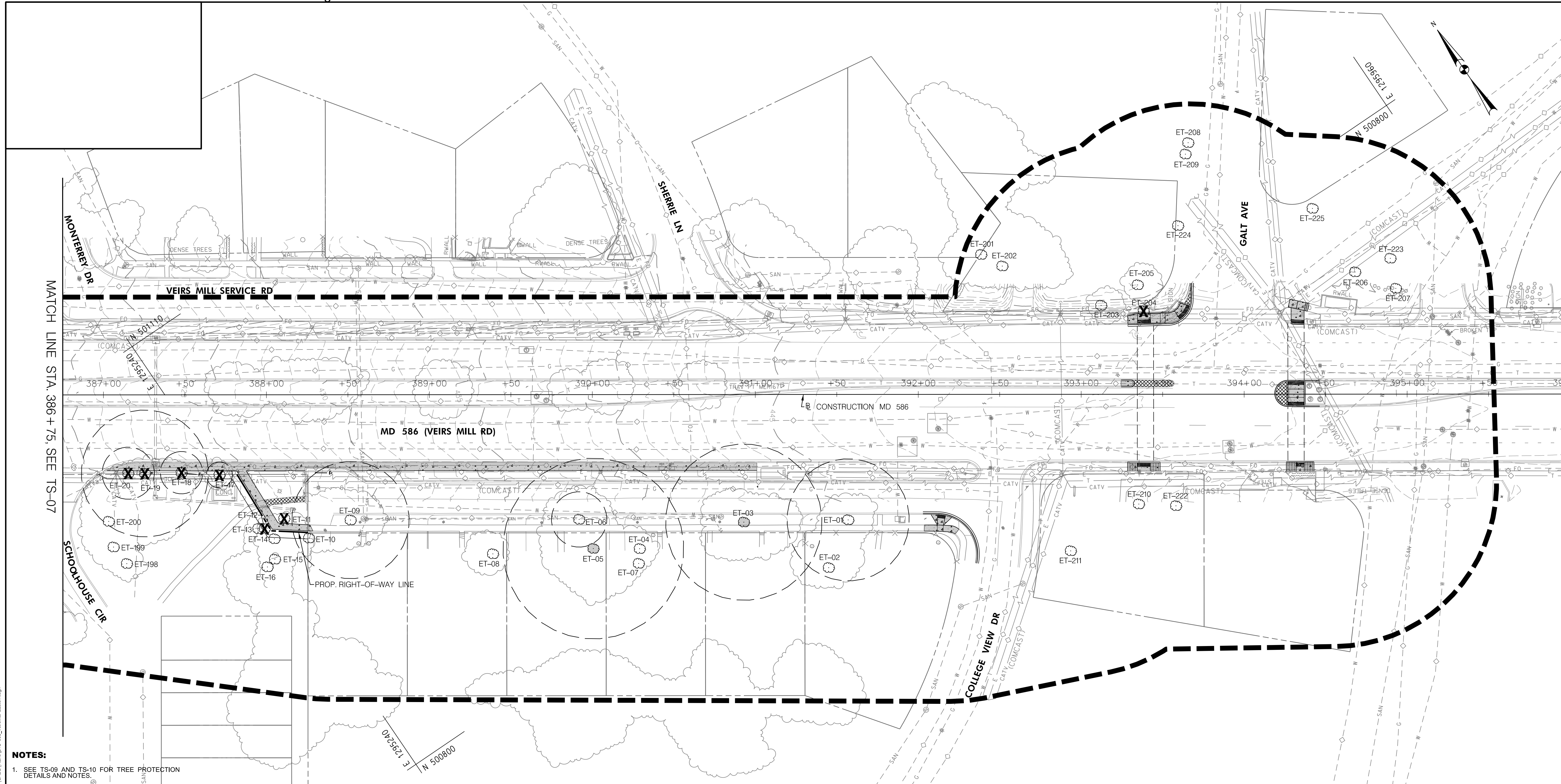
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PRELIMINARY TREE SAVE PLAN  
 BASE MAP # \_\_\_\_\_ TAX MAP # \_\_\_\_\_  
 SCALE 1"=30' DATE JUNE 2022

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DWG. TS-07





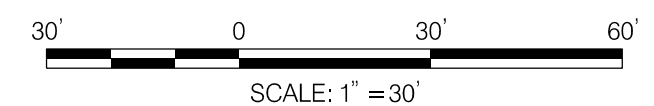
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	EXTENT OF TREE CANOPY		

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 DIVISION OF TRANSPORTATION ENGINEERING  
**MD 586/VEIRS MILL BIKE AND PEDESTRIAN  
 PRIORITY AREA – EASTERN SECTOR**

PRELIMINARY TREE SAVE PLAN  
 BASE MAP # \_\_\_\_\_ TAX MAP # \_\_\_\_\_  
 SCALE 1"=30' DATE JUNE 2022

CONTRACT NO. 502003 SHEET NO. 44 OF 50

PLOTTER: 6/26/2022  
 FILE: \\vkk\kcc\m\18\18\18\Projects\2020\20207\_MCDOT\Temp\Task\_11\_Veirs\_MiBPPA\_Eastern\_Sector\CADD\Plan\075-00g\_VeirsMill\_Eastern.dgn

**Sequence of Events for Properties Required to Comply With Forest Conservation Plans, Exemptions from Submitting Forest Conservation Plans, and Tree Save Plans**

The property owner is responsible for ensuring all tree protection measures are performed in accordance with the approved final forest conservation plan or tree save plan, and as modified in the field by a Planning Department Forest Conservation Inspector. The measures must meet or exceed the most recent standards published by the American National Standards Institute (ANSI A300).

**Pre-Construction**

1. An on-site pre-construction meeting is required after the limits of disturbance have been staked and flagged and before any land disturbance.
2. The property owner must arrange for the meeting and following people must participate at the pre-construction meeting: the property owner or their representative, construction superintendent, International Society of Arboriculture (ISA) certified arborist/Maryland Licensed Tree Expert (representing owner) that will implement the tree protection measures, The Planning Department Forest Conservation Inspector, and Montgomery County Department of Permitting Services (DPS) Sediment Control Inspector. The purpose of this meeting is to verify the limits of disturbance and discuss specific tree protection and tree care measures shown on the approved plan. No land disturbance shall begin before tree protection and stress-reduction measures have been implemented and approved by the Planning Department's Forest Conservation Inspector.

- a. Typical tree protection devices include:
  - i. Chain link fence (four feet high)
  - ii. Super silt fence with wire strung between the support poles (minimum 4 feet high) with high visibility flagging.
  - iii. 14 gauge, 2 inch x 4 inch welded wire fencing supported by steel T-bar posts (minimum 4 feet high) with high visibility flagging.
- b. Typical stress reduction measures may include, but are not limited to:
  - i. Root pruning with a root cutter or vibratory plow designed for that purpose. Trenchers are not allowed, unless approved by the Forest Conservation Inspector
  - ii. Crown Reduction or pruning
  - iii. Watering
  - iv. Fertilizing
  - v. Vertical mulching
  - vi. Root aeration systems

Measures not specified on the Tree Save Plan may be required as determined by the Forest Conservation Inspector in coordination with the property owner's arborist.

3. A Maryland Licensed Tree expert must perform, or directly supervise, the implementation of all stress reduction measures. Documentation of the process (including photographs) may be required by the Forest Conservation Inspector, and will be determined at the pre-construction meeting.

4. Temporary tree protection devices must be installed per the approved Forest Conservation Plan, Exemption Plan, or Tree Save Plan and prior to any land disturbance. The Forest Conservation Inspector, in coordination with the DPS Sediment Control Inspector, may make field adjustments to increase the survivability of trees and forest shown as saved on the approved plan.

5. Tree protection fencing must be installed and maintained by the property owner for the duration of construction project and must not be altered without prior approval from the Forest Conservation Inspector. All construction activity within protected tree and forest areas is prohibited. This includes the following activities:
  - a. Parking or driving of equipment, machinery or vehicles of any type.
  - b. Storage of any construction materials, equipment, stockpiling, fill, debris, etc.
  - c. Dumping of any chemicals (i.e., paint thinner), mortar or concrete remainder, trash, garbage, or debris of any kind.
  - d. Felling of trees into a protected area.
  - e. Trenching or grading for utilities, irrigation, drainage, etc.

6. Forest and tree protection signs must be installed as required by the Forest Conservation Inspector. The signs must be waterproof and wording provided in both English and Spanish. During Construction

7. Periodic inspections will be made by the Forest Conservation Inspector. Corrections and repairs to tree protection devices must be completed within the timeframe given by the Inspector.

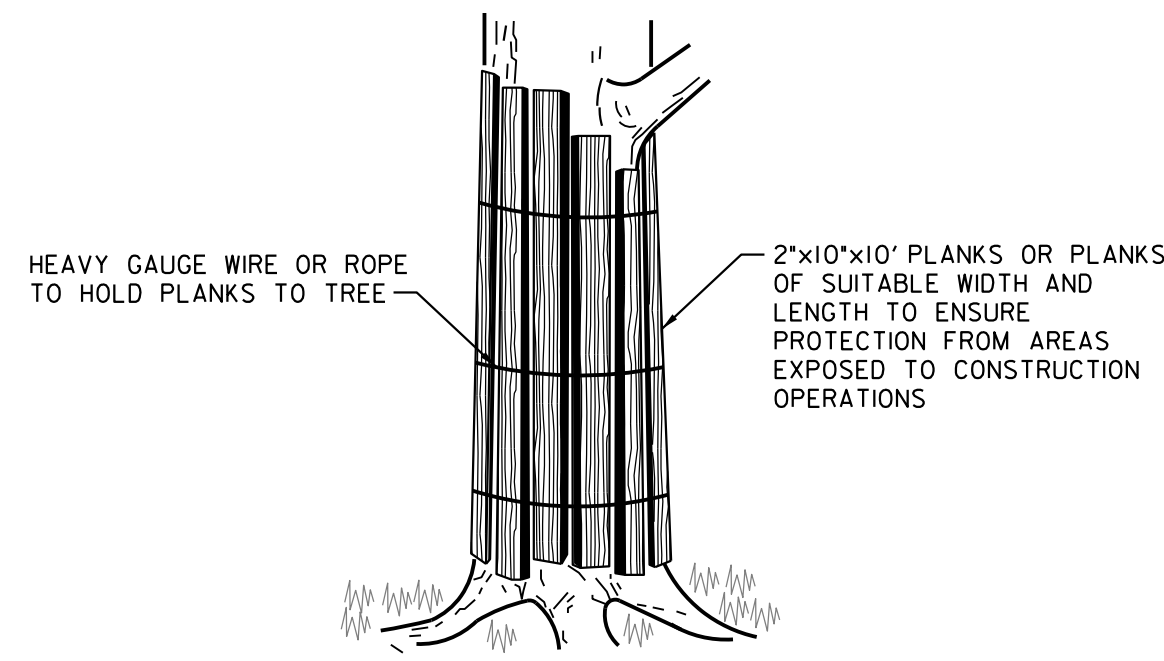
8. The property owner must immediately notify the Forest Conservation Inspector of any damage to trees, forests, understory, ground cover, and any other undisturbed areas shown on the approved plan. Remedial actions, and the relative timeframes to restore these areas, will be determined by the Forest Conservation Inspector.

**Post-Construction**

9. After construction is completed, but before tree protection devices have been removed, the property owner must request a final inspection with the Forest Conservation Inspector. At the final inspection, the Forest Conservation Inspector may require additional corrective measures, which may include:
  - a. Removal, and possible replacement, of dead, dying, or hazardous trees
  - b. Pruning of dead or declining limbs
  - c. Soil aeration
  - d. Fertilization
  - e. Watering
  - f. Wound repair
  - g. Clean up of retention areas, including trash removal

10. After the final inspection and completion of all corrective measures the Forest Conservation Inspector will request all temporary tree and forest protection devices be removed from the site. Removal of tree protection devices that also operate for erosion and sediment control must be coordinated with both DPS and the Forest Conservation Inspector and cannot be removed without permission of the Forest Conservation Inspector. No additional grading, sodding, or burial may take place after the tree protection fencing is removed.

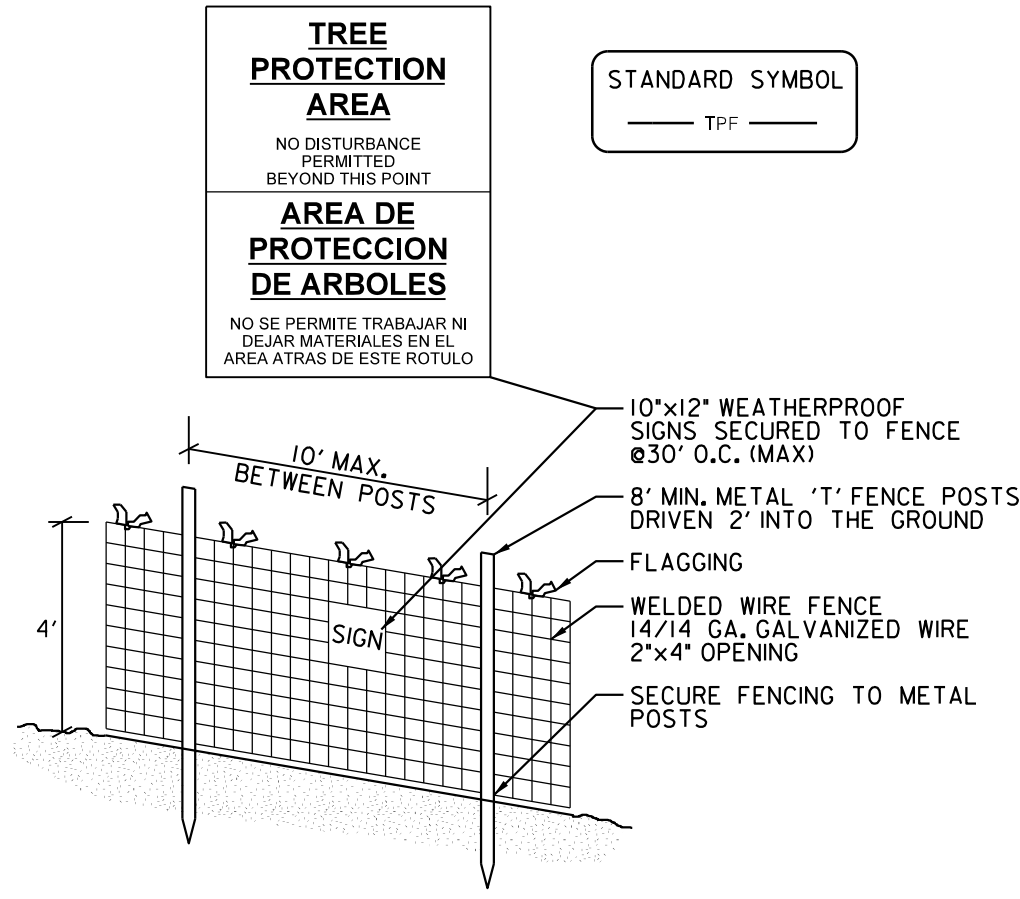
11. Long-term protection measures, including permanent signage, must be installed per the approved plan. Installation will occur at the appropriate time during the construction project. Refer to the approved plan drawing for the long-term protection measures to be installed.



**NOTES:**

1. TREE PLANKING TO BE PROVIDED PER PLAN. ADDITIONAL PLANKING MAY BE REQUIRED AS DIRECTED BY THE M-NCPPC INSPECTOR.
2. BOARDS OR POLES LASHED WITH ROPE OR WIRE IN AN UPRIGHT POSITION AGAINST THE TREE TRUNK. DO NOT NAIL OR STAPLE ANY PROTECTION DEVICES TO THE TREE.

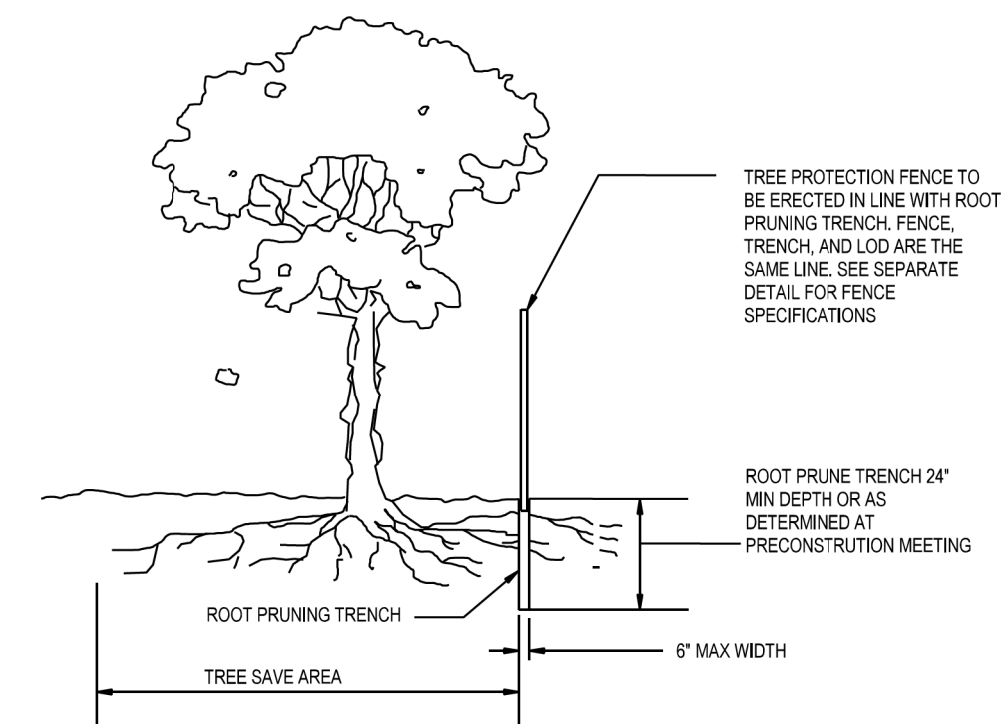
**TREE PLANKING  
HEAVY TREE PROTECTION**  
NOT TO SCALE



**TREE PROTECTION FENCE**  
NOT TO SCALE

**NOTES:**

1. PRACTICE MAY BE COMBINED WITH SEDIMENT CONTROL FENCING.
2. LOCATION AND LIMITS OF FENCING SHALL BE COORDINATED IN FIELD WITH MARYLAND LTE.
3. BOUNDARIES OF PROTECTION AREA SHOULD BE STAKED PRIOR TO INSTALLING PROTECTIVE DEVICE.
4. ROOT DAMAGE SHOULD BE AVOIDED.
5. PROTECTIVE SIGNAGE IS REQUIRED.
6. FENCING SHALL BE MAINTAINED THROUGHOUT CONSTRUCTION.



**NOTES:**

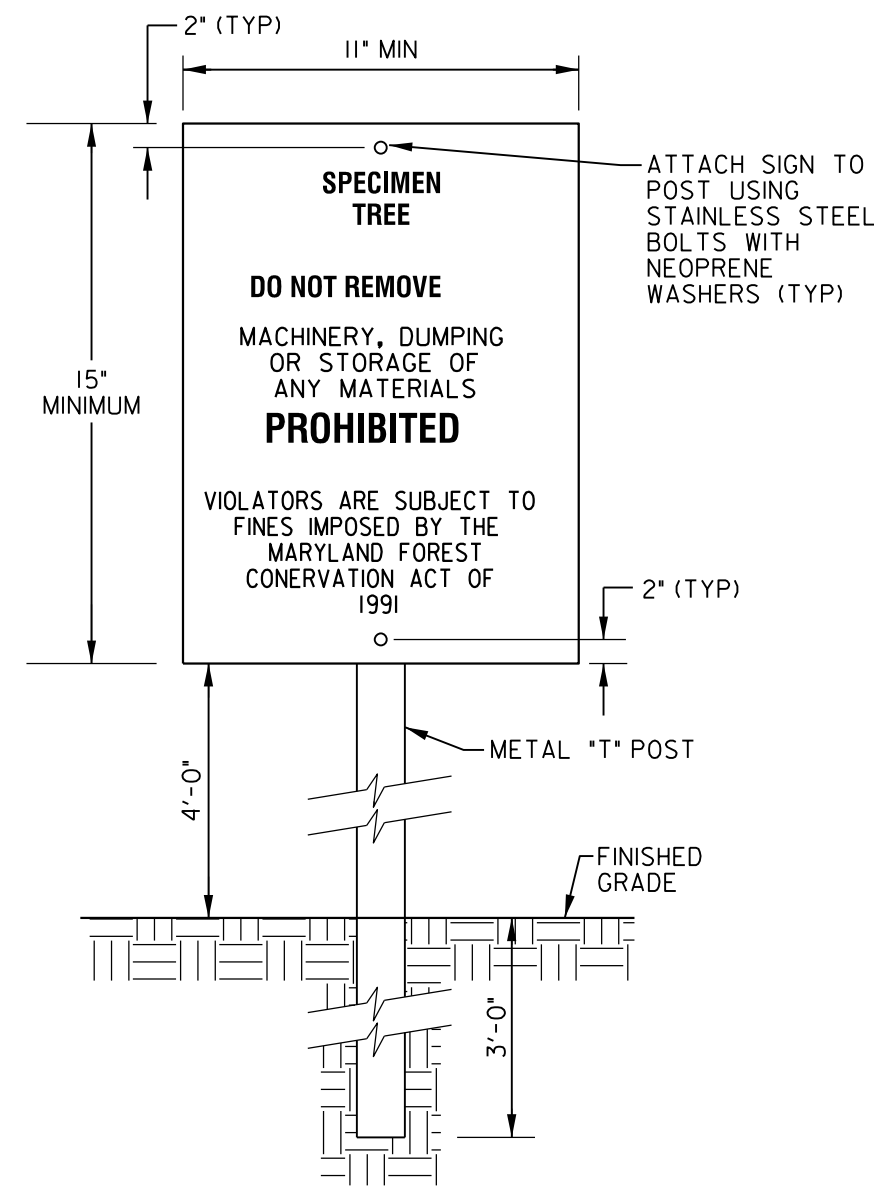
1. RETENTION AREAS WILL BE SET AS PART OF THE REVIEW PROCESS AND PRECONSTRUCTION MEETING.
2. BOUNDARIES OF RETENTION AREAS MUST BE STAKED AT THE PRECONSTRUCTION MEETING AND FLAGGED PRIOR TO TRENCHING.
3. EXACT LOCATION OF TRENCH SHALL BE DETERMINED IN THE FIELD IN COORDINATION WITH THE FOREST CONSERVATION (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

**TSP NOTES:**

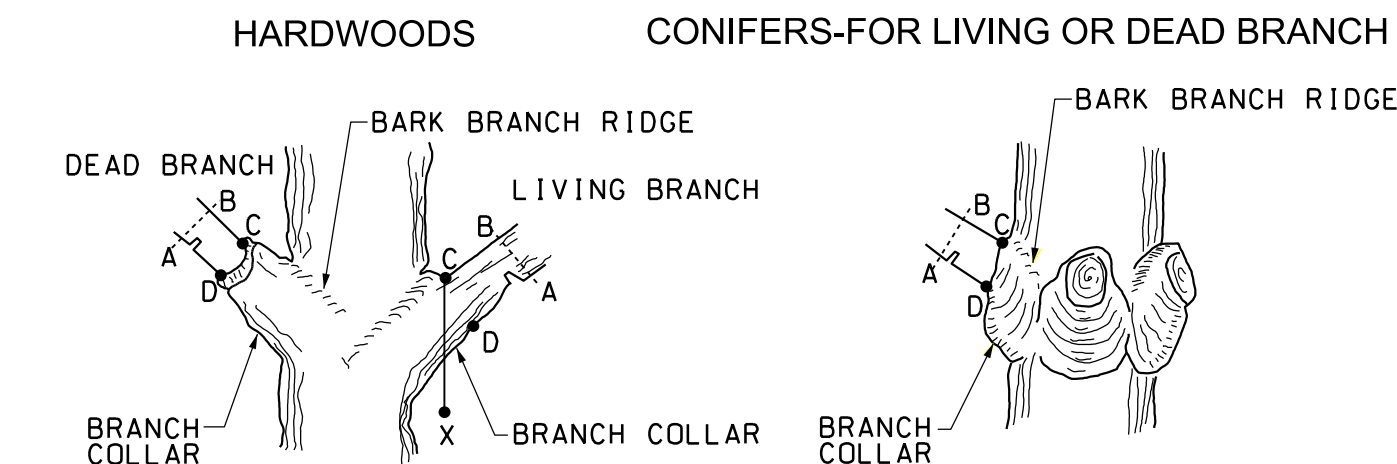
1. ALL AREAS OUTSIDE OF THE LOD SHALL BE CONSIDERED FOREST/TREE PRESERVATION AREAS TO BE LEFT UNDISTURBED.
2. IT IS CURRENTLY ESTIMATED THAT SIX SIGNIFICANT (>24" DBH) TREES AND EIGHT SPECIMEN TREES (>30" DBH OR 75% OF STATE CHAMPIONS) WILL BE REMOVED. OTHER SIGNIFICANT AND SPECIMEN TREES HAVE SOME CRITICAL ROOT ZONE WITHIN THE LOD AND MAY REQUIRE SUPPLEMENTAL TREE PROTECTION MEASURES. THE EXACT QUANTITY OF TREE REMOVALS WILL BE DETERMINED WHEN THE PROJECT PROGRESSES TO FINAL DESIGN. ALL WORK ACTIVITIES NEAR THESE TREES SHALL BE SUPERVISED AND DIRECTED BY A MD LICENSED TREE EXPERT (LTE).
3. TREE SAVE PLANS PREPARED BY RICH LEFEBURE, CA, LTE, QP. FIELD DATA COLLECTED ON JANUARY 11, 2022, JANUARY 13, 2022, MARCH 29, 2022, AND JULY 7, 2022.
4. PROJECT AREA IS LOCATED WITHIN THE ROCK CREEK WATERSHED (MDE 8-DIGIT CODE 02140206) USE CLASS I.
5. APPROXIMATELY 246,083 SQUARE FEET (SF) OF FEDERAL EMERGENCY MANAGEMENT AGENCY (FEMA) 100-YEAR FLOODPLAIN (PANEL NUMBER 24031C0365D) AND 6,726 SF OF M-NCPPC FLOODPLAIN FALL WITHIN THE PROJECT STUDY AREA, ACCORDING TO FEMA AND MONTGOMERY COUNTY GIS DATA
6. ONE PERENNIAL WATERWAY (UNNAMED TRIBUTARY TO ROCK CREEK, USE I) AND NO REGULATED WETLANDS WERE IDENTIFIED WITHIN THE PROJECT STUDY AREA. THE NWI AND DNR WETLAND INVENTORY MAPPING AND MCATLAS INDICATE THAT NO WETLANDS AND ONE R3/PERENNIAL WATERWAY ARE LOCATED IN THE PROJECT STUDY AREA.
7. ON MARCH 28, 2022, A USFWS IPAC ONLINE DATABASE QUERY INDICATED THAT THE FEDERALLY THREATENED NORTHERN LONG-EARED BAT (NLEB) MAY OCCUR IN THE PROJECT STUDY AREAS. THE USFWS DETERMINATION KEY FOR THIS SPECIES CONFIRMED THAT THERE ARE NO HABITAT CONCERNS FOR THE NLEB SINCE FOREST CLEARING FOR THIS PROJECT WILL NOT EXCEED 15 ACRES. THEREFORE, NO FURTHER COORDINATION WITH USFWS IS REQUIRED.
8. A REQUEST FOR INFORMATION ON THE PRESENCE OF RTE SPECIES WAS SENT TO THE WILDLIFE AND HERITAGE SECTION (MDNR-WH) ON JANUARY 27, 2022. A RESPONSE FROM MDNR-WH WAS RECEIVED ON MARCH 2, 2022, INDICATING THAT THERE ARE NO OFFICIAL STATE OR FEDERAL RECORDS FOR LISTED PLANT OR ANIMAL SPECIES WITHIN THE PROJECT AREAS. MDNR-PRD'S SELF-SCREENING TOOL WAS QUERIED ON MARCH 28, 2022 AND INDICATED THAT THE ONLY RESOURCE WITHIN THE PROJECT STUDY AREA IS A USE I STREAM. IN-STREAM WORK IS PROHIBITED IN USE I STREAMS FROM MARCH 1 THROUGH JUNE 15, INCLUSIVE DURING ANY YEAR. NO FURTHER COORDINATION WITH MDNR-WH AND MDNR-ERP IS REQUIRED. NO RTE SPECIES WERE OBSERVED ON SITE DURING FIELD INVESTIGATIONS.
9. IT IS ANTICIPATED THAT THE PROJECT WILL USE FEDERAL FUNDING AND SECTION 106 COORDINATION WILL BE REQUIRED. THIS COORDINATION IS PENDING.
10. THE PURPOSE OF THIS PROJECT IS TO DEVELOP A NEW SHARED USE BICYCLE/PEDESTRIAN PATH AND SIDEWALK, INCLUDING INTERSECTION, SIGNAL, SIGNING, PAVEMENT MARKING, AND LIGHTING IMPROVEMENTS ALONG 6,000 FEET OF VEIRS MILL ROAD BETWEEN CONNECTICUT AVENUE AND GALT AVENUE.
11. THE LOCATION OF ACTUAL TREE PROTECTION MEASURES, INCLUDING TREE PROTECTION FENCING, ROOT PRUNING, HEAVY TREE PROTECTION, AND AIR SPADING, WILL BE DETERMINED WHEN THE PROJECT PROGRESSES TO FINAL DESIGN.



**TREE PROTECTION SIGN DETAIL**  
N.T.S.

**Notes:**

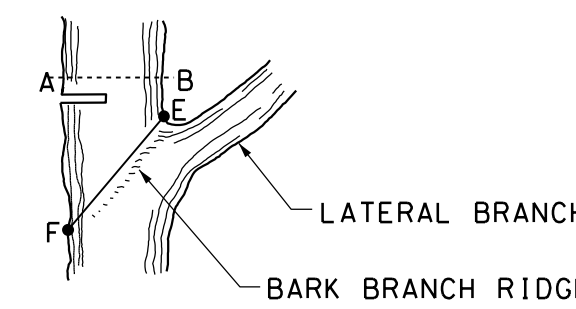
1. Bottom of signs to be higher than top of tree protection fence.
  2. Attachment of signs to tree is prohibited.
  3. Attach signs to metal 'T' posts or directly to tree protection fence.
- Source: Adapted from Forest Conservation Manual, 1991



**Notes:**

1. Remove branch weight by undercutting at A and remove limb by cutting through AB.
2. Remove stub at CD (line between branch bark ridge and outer edge of branch collar)
3. If D is difficult to find on hardwoods, angle of CD to trunk should be the reflective angle of the bark branch ridge to the trunk.
4. Only prune at specified times.
5. Remove no more than 30% of crown at one time.

**PRUNING A BRANCH**  
N.T.S.



**Notes:**

1. Remove top weight by undercutting at A and remove limb by cutting through AB.
2. Remove stub at EF parallel to the bark branch ridge.
3. Only prune at specified times.
4. No more than 30% of the crown to be removed at one time.
5. Diameter of lateral branch should be no less than 30% of the diameter of the leader.

**PRUNING A LEADER TO REDUCE SIZE**  
N.T.S.

Source: Adapted from Steve Clark & Associates/ACRT, Inc.

**OWNER/ADDRESS:**  
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MONTGOMERY COUNTY  
DEPARTMENT OF TRANSPORTATION  
ROCKVILLE, MARYLAND

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Chief, Transportation Planning and Design Section

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Chief, Division of Transportation Engineering

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DIVISION OF TRANSPORTATION ENGINEERING  
MD 586/VEIRS MILL BIKE AND PEDESTRIAN  
PRIORITY AREA - EASTERN SECTOR

PRELIMINARY TREE SAVE NOTES AND DETAILS  
BASE MAP # \_\_\_\_\_ TAX MAP # \_\_\_\_\_  
SCALE \_\_\_\_\_ DATE JUNE 2022

CONTRACT NO. 502003 SHEET NO. 45 OF 50

DWG. TS-09

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TREE INVENTORY TABLE								
Tree ID	Remove	Scientific Name	Common Name	DBH (inches)	CRZ (feet)	Condition	Specimen or Significant Tree	Comments
ET-125		<i>Pinus nigra</i>	Austrian pine	25	38	Fair	Significant Tree	Broken branches, poor branching
ET-126	X	<i>Pinus nigra</i>	Austrian pine	24	36	Fair	Significant Tree	Broken branches, bent leader, poor growth form
ET-127		<i>Picea abies</i>	Norway spruce	24	36	Good/Fair	Significant Tree	Vines
ET-128		<i>Quercus palustris</i>	Pin oak	31	47	Good/Fair	Specimen Tree	Vines
ET-129		<i>Acer rubrum</i>	Red maple	45	68	Fair	Specimen Tree	Heavy vines and utility pruning
ET-140		<i>Platanus occidentalis</i>	Sycamore	46	69	Fair	Specimen Tree	Splits above DBH, pruning, crack in lower trunk
ET-141		<i>Platanus occidentalis</i>	Sycamore	32	48	Good/Fair	Specimen Tree	Dead branch, minor pruning
ET-143		<i>Quercus palustris</i>	Pin oak	40	60	Excellent	Specimen Tree	-
ET-144		<i>Pinus virginiana</i>	Virginia pine	18	-	Fair	-	Dead branches, scraggly growth form
ET-145	X	<i>Morus alba</i>	White mulberry	6	-	Fair	-	Vines, multistem
ET-146		<i>Acer rubrum</i>	Red maple	28	42	Fair	Significant Tree	Small trunk wound, pruning, poor growth form
ET-147		<i>Acer rubrum</i>	Red maple	28	42	Good/Fair	Significant Tree	Splits above DBH, pruning
ET-148		<i>Juniperus virginiana</i>	Red cedar	8	-	Good	-	-
ET-149		<i>Juglans nigra</i>	Black walnut	32	48	Good	Specimen Tree	Minor vines
ET-150	X	<i>Acer rubrum</i>	Red maple	10	-	Fair/Poor	-	Multi stem, heavy pruning, dead branches, water sprouts
ET-151	X	<i>Juglans nigra</i>	Black walnut	18	-	Fair	-	Heavy vines, pruned, water sprouts
ET-152		<i>Juglans nigra</i>	Black walnut	28	42	Good/Fair	Significant Tree	Lean
ET-153	X	<i>Morus alba</i>	White mulberry	7	-	Fair/Poor	-	Poor growth form, heavy vines, pruned
ET-154	X	<i>Juglans nigra</i>	Black walnut	7	-	Good/Fair	-	Vines
ET-155	X	<i>Acer negundo</i>	Box elder	20	-	Fair/Poor	-	Heavy vines, water sprouts, growing into fence, pruned
ET-156		<i>Juniperus virginiana</i>	Red cedar	10	-	Fair/Poor	-	Heavy vines, limited foliage
ET-157	X	<i>Acer rubrum</i>	Red maple	24	36	Fair/Poor	Significant Tree	Heavy vines, multistem, pruning
ET-158		<i>Liriodendron tulipifera</i>	Tulip poplar	33	50	Good/Fair	Specimen Tree	Utility pruning, splits above dbh
ET-159		<i>Acer rubrum</i>	Red maple	38	57	Fair	Specimen Tree	Heavy pruning, splits above dbh, water sprouts
ET-160		<i>Acer rubrum</i>	Red maple	18	-	Fair	-	Utility pruning, splits above dbh
ET-161	X	<i>Juglans nigra</i>	Black walnut	18	-	Fair/Poor	-	Heavy utility pruning, dead branches
ET-162	X	<i>Morus alba</i>	White mulberry	10	-	Poor	-	Heavy vines, utility pruning, dead branches
ET-163	X	<i>Ulmus americana</i>	American elm	8	-	Poor	-	Leader pruned, poor growth form, water sprouts
ET-164	X	<i>Morus alba</i>	White mulberry	6	-	Poor	-	Desiccated, heavy vines, dead branches
ET-165	X	<i>Juglans nigra</i>	Black walnut	10	-	Fair/Poor	-	Leader topped, heavy pruning, water sprouts
ET-166	X	<i>Morus alba</i>	White mulberry	6	-	Poor	-	Topped, dead branches
ET-167	X	<i>Juglans nigra</i>	Black walnut	10	-	Poor	-	Topped, poor growth form
ET-168	X	<i>Morus alba</i>	White mulberry	11	-	Poor	-	Heavy vines, heavily pruned
ET-169	X	<i>Morus alba</i>	White mulberry	9	-	Poor	-	Heavy vines, pruned, poor growth form
ET-170	X	<i>Prunus serotina</i>	Black cherry	25	38	Fair/Poor	Significant Tree	Heavy vines, poor growth form
ET-171	X	<i>Morus alba</i>	White mulberry	9	-	Fair/Poor	-	Pruned, heavy vines, poor growth form
ET-172		<i>Celtis occidentalis</i>	Hackberry	38	57	Fair	Specimen Tree	Splits above DBH, heavy vines
ET-173		<i>Acer negundo</i>	Box elder	32	48	Poor	Specimen Tree	Significant dead wood, tree is in heavy decline. Recommend removal
ET-174		<i>Celtis occidentalis</i>	Hackberry	34	51	Good/Fair	Specimen Tree	Irregular growth, interfering branches
ET-175		<i>Acer saccharinum</i>	Silver maple	36	54	Good	Specimen Tree	Some vines, minor pruning
ET-176		<i>Morus alba</i>	White mulberry	9	-	Fair	-	Splits below DBH, water sprouts
ET-177	X	<i>Celtis occidentalis</i>	Hackberry	9	-	Fair	-	Bent leader, heavy vines
ET-178		<i>Prunus sp.</i>	Ornamental cherry	4	-	Good/Fair	-	Splits below DBH
ET-179		<i>Cupressus x leylandii</i>	Leyland cypress	3	-	Good	-	-
ET-180		<i>Cupressus x leylandii</i>	Leyland cypress	3	-	Good	-	-
ET-181		<i>Cupressus x leylandii</i>	Leyland cypress	3	-	Good	-	-
ET-182		<i>Liriodendron tulipifera</i>	Tulip poplar	24	36	Good	Significant Tree	-
ET-183		<i>Carya tomentosa</i>	Mockernut hickory	10	-	Good	-	-
ET-184		<i>Carya tomentosa</i>	Mockernut hickory	11	-	Good	-	-
ET-185		<i>Liriodendron tulipifera</i>	Tulip poplar	12	-	Good/Fair	-	Bend in trunk
ET-186		<i>Morus alba</i>	White mulberry	6	-	Fair	-	Dead branches, poor growth form
ET-187		<i>Carya tomentosa</i>	Mockernut hickory	8	-	Good	-	-
ET-188		<i>Acer platanoides</i>	Norway maple	10	-	Good	-	-
ET-189		<i>Acer palmatum</i>	Japanese maple	1	-	Good	-	Dwarf cultivar
ET-190	X	<i>Crataegus sp.</i>	Hawthorn	1	-	Good	-	Recently planted
ET-191		<i>Ilex opaca</i>	American holly	5	-	Good	-	Multistem
ET-192		<i>Fagus sylvatica</i>	Copper beech	1	-	Good	0	-
ET-193		<i>Lagerstroemia indica</i>	Crape myrtle	1	-	Good	-	-
ET-194		<i>Lagerstroemia indica</i>	Crape myrtle	1	-	Good	-	-
ET-195		<i>Lagerstroemia indica</i>	Crape myrtle	1	-	Good	-	-
ET-196		<i>Liriodendron tulipifera</i>	Tulip poplar	27	41	Good/Fair	Significant Tree	Large, healing wound on trunk

DWG. TS-12

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 MD 586/VEIRS MILL BIKE AND PEDESTRIAN  
 PRIORITY AREA - EASTERN SECTOR

PRELIMINARY TREE SAVE TABLE

BASE MAP # \_\_\_\_\_ TAX MAP # \_\_\_\_\_  
 SCALE \_\_\_\_\_ DATE JUNE 2022

CONTRACT NO. 502003 SHEET NO. 48 OF 50

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TREE INVENTORY TABLE								
Tree ID	Remove	Scientific Name	Common Name	DBH (inches)	CRZ (feet)	Condition	Specimen or Significant Tree	Comments
ET-197		<i>Lagerstroemia indica</i>	Crape myrtle	4	-	Good	-	Multistem
ET-198		<i>Lagerstroemia indica</i>	Crape myrtle	3	-	Good	-	Multistem
ET-199		<i>Lagerstroemia indica</i>	Crape myrtle	5	-	Good	-	Multistem
ET-200	X	<i>Acer rubrum</i>	Red maple	10	-	Good	-	Splits above DBH
ET-201		<i>Quercus alba</i>	White oak	26	39	Good	Significant Tree	-
ET-202		<i>Quercus alba</i>	White oak	28	42	Good/Fair	Significant Tree	Large pruning wound, minor utility pruning
ET-203		<i>Gleditsia triacanthos</i>	Honey locust	7	-	Fair	-	Splits below DBH, heavy utility pruning, multistem
ET-204	X	<i>Morus alba</i>	White mulberry	6	-	Fair	-	Splits below DBH, poor growth form
ET-205		<i>Cornus florida</i>	Flowering dogwood	9	-	Fair	-	Lower trunk damage, desiccation
ET-206		<i>Lagerstroemia indica</i>	Crape myrtle	3	-	Good	-	-
ET-207		<i>Lagerstroemia indica</i>	Crape myrtle	2	-	Good	-	Multistem
ET-208		<i>Cupressus x leylandii</i>	Leyland cypress	11	-	Fair	-	Large pruning wounds
ET-209		<i>Cupressus x leylandii</i>	Leyland cypress	9	-	Good/Fair	-	Splits below DBH, pruning
ET-210		<i>Cupressus x leylandii</i>	Leyland cypress	6	-	Fair	-	Topped for utility pruning
ET-211		<i>Lagerstroemia indica</i>	Crape myrtle	3	-	Good	-	Multistem
ET-212	X	<i>Juglans nigra</i>	Black walnut	1	-	Fair	-	Multistem, growing into headwall
ET-213		<i>Juglans nigra</i>	Black walnut	5	-	Fair	-	Splits below DBH, growing into fence
ET-214		<i>Cornus florida</i>	Flowering dogwood	1	-	Fair	-	Desiccated, likely planted with transplant shock, dead leaders but responding well
ET-215		<i>Quercus rubra</i>	Northern red oak	2	-	Fair	-	Landscaped tree, cicada damage
ET-216		<i>Quercus alba</i>	White oak	6	-	Good/Fair	-	Landscaped tree, growing into tree cage
ET-217		<i>Cercis canadensis</i>	Redbud	5	-	Good	-	Landscaped
ET-218		<i>Quercus palustris</i>	Pin oak	10	-	Good	-	-
ET-219		<i>Pinus strobus</i>	White pine	16	-	Good/Fair	-	Splits below DBH, included bark
ET-220		<i>Morus alba</i>	White mulberry	2	-	Fair	-	Multistem, poor growth form
ET-221		<i>Quercus rubra</i>	Northern red oak	2	-	Good/Fair	-	Landscaped tree, cicada damage
ET-222		<i>Cupressus x leylandii</i>	Leyland cypress	6	-	Good	-	-
ET-223		<i>Lagerstroemia indica</i>	Crape myrtle	1	-	Good	-	Multistem
ET-224		<i>Ligustrum sp.</i>	Privet	3	-	Fair	-	Multistem, heavy pruning
ET-225		<i>Pinus strobus</i>	White pine	18	-	Good	-	Branches hang over roadway
ET-226		<i>Acer rubrum</i>	Red maple	18	-	Fair	-	Sapsucker damage, utility pruning
T-4		<i>Acer rubrum</i>	Red maple	25	38	Fair/Poor	Significant Tree	Utility pruning, girdling roots, broken branch, water sprouts
T-5		<i>Acer rubrum</i>	Red maple	34	51	Fair/Poor	Specimen Tree	Utility pruning, exposed roots, broken branches, water sprouts
T-6		<i>Magnolia x soulangeana</i>	Saucer magnolia	14	-	Fair	-	Splits below DBH, interfering branches, minor vines
T-7		<i>Morus alba</i>	White mulberry	12	-	Good/Fair	-	Splits below DBH, minor vines
T-8		<i>Juniperus virginiana</i>	Eastern red cedar	10	-	Fair/Poor	-	Pruned secondary leader, vines
T-9		<i>Juniperus virginiana</i>	Eastern red cedar	12	-	Fair	-	Utility pruning, vines
T-10		<i>Acer rubrum</i>	Red maple	32	48	Fair	Specimen Tree	Extensive vines on lower half
T-11		<i>Acer palmatum</i>	Japanese maple	10	-	Good/Fair	-	Splits below DBH, minor trunk cavities
T-12		<i>Acer palmatum</i>	Japanese maple	12	-	Good/Fair	-	Splits below DBH, twisted trunk
T-13		<i>Ilex opaca</i>	American holly	8	-	Good	-	-
T-14		<i>Acer palmatum</i>	Japanese maple	9	-	Fair	-	Splits below DBH, minor trunk cavities, vines on lower half
T-15		<i>Ilex opaca</i>	American holly	16	-	Fair	-	Twin trunk, minor vines, topped for utilities
T-16		<i>Acer rubrum</i>	Red maple	30	45	Fair/Poor	Specimen Tree	Trunk cavity, dead wood, girdling roots
T-17		<i>Acer rubrum</i>	Red maple	38	57	Fair/Poor	Specimen Tree	Significant included bark, utility pruning, water sprouts
T-43		<i>Quercus phellos</i>	Willow oak	47	71	Excellent	Specimen Tree	0
T-45		<i>Malus sp.</i>	Crabapple sp.	6	-	Fair	-	Trunk wounds
T-46		<i>Malus sp.</i>	Crabapple sp.	4	-	Good	-	-
T-47		<i>Malus sp.</i>	Crabapple sp.	1	-	Fair/Poor	-	Dead leader, interfering branches
T-48		<i>Ulmus pumila</i>	Siberian elm	6	-	Good/Fair	-	Multistem, splits below DBH, interfering branches
T-49		<i>Cornus florida</i>	Flowering dogwood	7	-	Fair	-	Splits below DBH, trunk wound and decay, large dead branch
T-58		<i>Morus rubra</i>	Red mulberry	5	-	Fair	-	Multistem, splits below DBH, poor growth form, pruned
T-59		<i>Quercus coccinea</i>	Scarlet oak	22	-	Fair	-	Heavy utility pruning
T-60		<i>Acer rubrum</i>	Red maple	35	53	Fair	Specimen Tree	Heavy pruning, water sprouts
T-61		<i>Quercus coccinea</i>	Scarlet oak	16	-	Good	-	Lightly pruned
T-62		<i>Acer rubrum</i>	Red maple	16	-	Fair/Poor	-	Heavy utility pruning, pruned leader, water sprouts, poor growth form
T-232		<i>Lagerstroemia indica</i>	Crape myrtle	2	-	Good	-	Multistem
T-233		<i>Lagerstroemia indica</i>	Crape myrtle	3	-	Good	-	Multistem
T-234		<i>Juniperus virginiana</i>	Eastern red cedar	4	-	Fair	-	Poor growth form
T-235		<i>Magnolia x soulangeana</i>	Saucer magnolia	12	-	Fair	-	Multistem, dead leader, fused branches, broken branches

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 GAITHERSBURG, MARYLAND

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 ENGINEERING  
 240-777-7237

NO.	REVISION	DATE	BY

MONTGOMERY COUNTY  
 DEPARTMENT OF TRANSPORTATION  
 ROCKVILLE, MARYLAND

RECOMMENDED FOR APPROVAL  
 SEE TITLE SHEET FOR SIGNATURE \_\_\_\_\_ Date \_\_\_\_\_  
 Chief, Transportation Planning and Design Section

APPROVED  
 SEE TITLE SHEET FOR SIGNATURE \_\_\_\_\_ Date \_\_\_\_\_  
 Chief, Division of Transportation Engineering

DESIGNED BY   NLB   DRAWN BY   NLB   CHECKED BY   RL  

MONTGOMERY COUNTY  
 DEPARTMENT OF TRANSPORTATION  
 DIVISION OF TRANSPORTATION ENGINEERING  
 MD 586/VEIRS MILL BIKE AND PEDESTRIAN  
 PRIORITY AREA – EASTERN SECTOR

PRELIMINARY TREE SAVE TABLE  
 BASE MAP # \_\_\_\_\_ TAX MAP # \_\_\_\_\_  
 SCALE \_\_\_\_\_ DATE   JUNE 2022  

CONTRACT NO. 502003 SHEET NO.   49   OF   50  

DWG. TS-13

GRADING TABLE									
ROADWAY	STATIONS		CLASS 1 EXCAVATION						EMBANKMENT
			CUT FROM XSECTS	TOPSOIL		TOTAL	SUITABLE FOR EMBANK.	SHRINK/SWELL FACTOR (%)	AVAIL. FOR EMBANK.
	FROM	TO		CUT	FILL				
			C.Y.	C.Y.	C.Y.	C.Y.	C.Y.	C.Y.	C.Y.
	VEIRS MILL ROAD								
	332+00	396+00	5,350	0	0	5,350	0	0	390

## SUMMARY OF EARTHWORK

### EXCAVATION

TOTAL CLASS I EXCAVATION .....	5,350	C.Y.
TOTAL CLASS I-A EXCAVATION .....	200	C.Y.
TOTAL TEST PIT EXCAVATION .....	100	C.Y.
TOTAL EXCAVATION AVAILABLE FOR EMBANKMENT .....	0	C.Y.
TOTAL EROSION & SEDIMENT CONTROL EXCAVATION .....	0	C.Y.

### EMBANKMENT

COMMON BORROW REQUIRED .....	390	C.Y.
BORROW DENSIFIED (20%) .....	78	C.Y.
TOTAL COMMON BORROW REQUIRED .....	468	C.Y.
FURNISHED SUBSOIL REQUIRED .....	250	C.Y.
FURNISHED SUBSOIL DENSIFIED (20%) .....	50	C.Y.
TOTAL FURNISHED SUBSOIL REQUIRED .....	300	C.Y.

### PROPOSAL QUANTITIES

CLASS I EXCAVATION .....	5,350	C.Y.
CLASS I-A EXCAVATION .....	200	C.Y.
TEST PIT EXCAVATION .....	100	C.Y.
COMMON BORROW .....	500	C.Y.
SELECT BORROW (FOR CLASS I-A REFILL) .....	200	C.Y.
WASTE MATERIAL FROM EXCAVATION .....	0	C.Y.
FURNISHED SUBSOIL .....	300	C.Y.

P:\ATTEN\64924208\Projects\2020\20097\_MCDOT\Temp\Task\_11\_Veirs\_Mill\_BiPPA\_Eastern\_Sector\CADD\Plan\GT-01\_VeirsMill-Eastern.dgn  
 DATE: 6/29/2022  
 FILE: \\veirs.kkk.com\16\Chen\Projects\2020\20097\_MCDOT\Temp\Task\_11\_Veirs\_Mill\_BiPPA\_Eastern\_Sector\CADD\Plan\GT-01\_VeirsMill-Eastern.dgn

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OWNER/ADDRESS: MONTGOMERY COUNTY DEPARTMENT OF TRANSPORTATION 100 EDISON PARK DRIVE GAITHERSBURG, MARYLAND  CONTACT: DIVISION OF TRANSPORTATION ENGINEERING 240-777-7220 DESIGN SECTION 240-777-7221	MONTGOMERY COUNTY DEPARTMENT OF TRANSPORTATION ROCKVILLE, MARYLAND  RECOMMENDED FOR APPROVAL SEE TITLE SHEET FOR SIGNATURE _____ Chief, Transportation Planning and Design Section APPROVED SEE TITLE SHEET FOR SIGNATURE _____ Chief, Division of Transportation Engineering	MONTGOMERY COUNTY DEPARTMENT OF TRANSPORTATION DIVISION OF TRANSPORTATION ENGINEERING MD 586 (VEIRS MILL RD) BIKE AND PEDESTRIAN PRIORITY AREA – EASTERN SECTOR GRADING TABLE AND SUMMARY OF EARTHWORK SCALE NO SCALE DATE JUNE 2022  CONTRACT NO. 502003 SHEET NO. 50 OF 50
NO. REVISION DATE BY	DESIGNED BY KBJ DRAWN BY KBJ CHECKED BY CJB	

DWG. GT-01