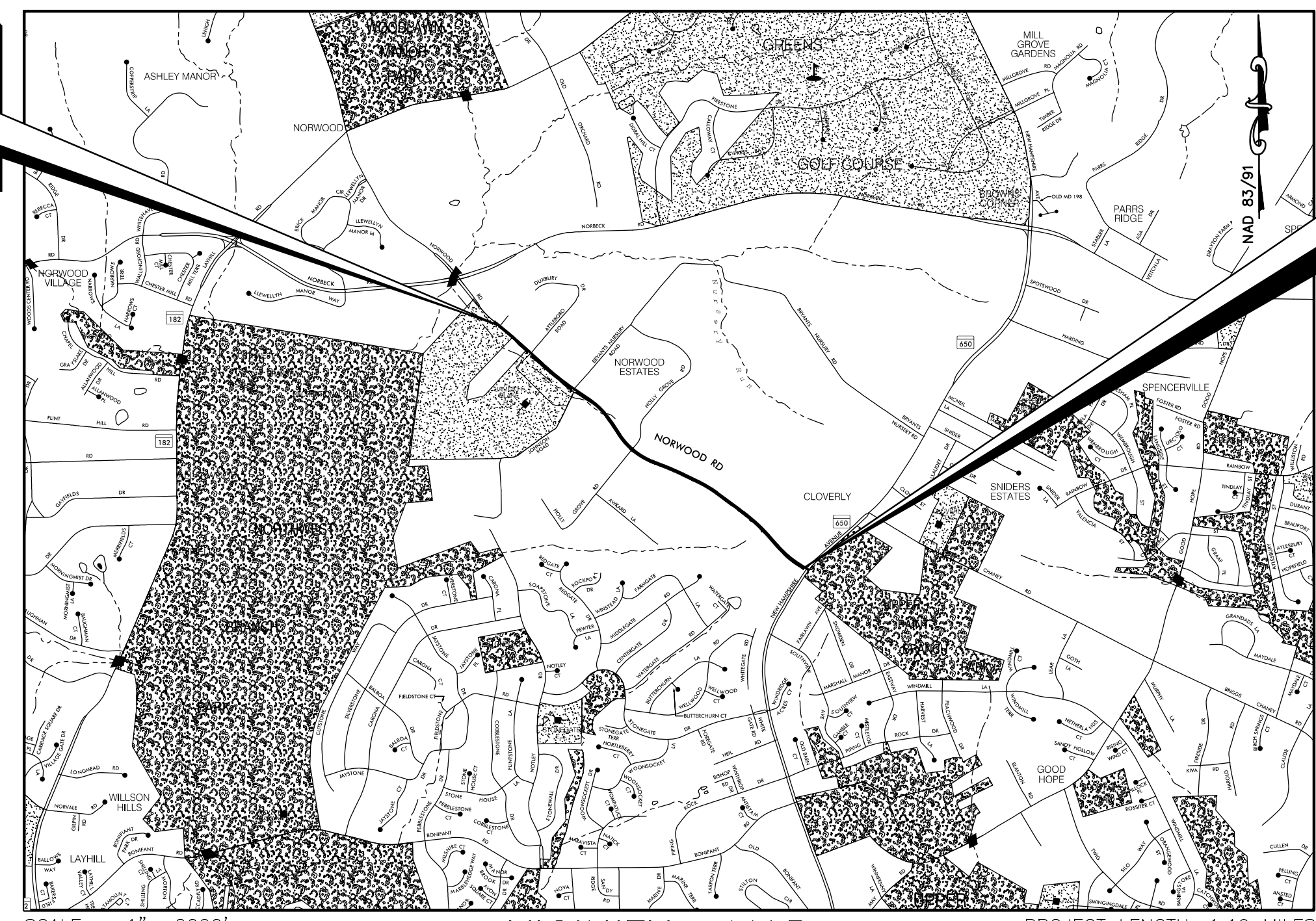


# MONTGOMERY COUNTY DEPARTMENT OF TRANSPORTATION DIVISION OF TRANSPORTATION ENGINEERING

## NORWOOD ROAD SHARED USE PATH STA. 100+00 TO STA. 164+78 C. I. P. PROJECT NO. PENDING

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	REQD	NOT REQD	PERMIT #	EXPIRATION DATE	WORK RESTRICTION DATES
MCDCPS Floodplain District					
WATERWAYS/WETLAND(S):					
a. Corps of Engineers					
b. MDE					
c. MDE Water Quality Certification					
MDE Dam Safety					
* DPS Roadside Trees Protection Plan				Approval Date	
N.P.D.E.S. NOTICE OF INTENT					DATE FILED
FEMA LOMR (Required Post Construction)					
OTHERS (Please List):					

**LIMIT OF WORK  
PROJECT NO.  
NORWOOD ROAD  
STA. 100+97**



**LIMIT OF WORK  
PROJECT NO.  
NORWOOD ROAD  
STA. 164+05**

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

**DRAINAGE STATEMENT**

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

Engineer's Signature  
 SETH H. DARLINGTON  
 Printed Name

01/05/2024  
 Date

TECHNICAL REVIEW OF SEDIMENT CONTROL	ADMINISTRATIVE REVIEW	DPS approval of a sediment control or stormwater management plan is for demonstrated compliance with minimum environmental runoff treatment standards and does not create or imply any right to divert or concentrate runoff onto any adjacent property without that property owner's permission. It does not relieve the design engineer or other responsible person of professional liability or ethical responsibility for the adequacy of the drainage design as it affects uphill or downhill properties.
REVIEWED _____ DATE _____	REVIEWED _____ DATE _____	
TECHNICAL REVIEW OF STORMWATER MANAGEMENT	SMALL LOT DRAINAGE APPROVAL	XX/XXX
REVIEWED _____ DATE _____	N/A: <input type="checkbox"/> OR _____ DATE _____	XX/XXX
MCDCPS APPROVAL OF THIS PLAN WILL EXPIRE TWO YEARS FROM THE DATE OF APPROVAL IF THE PROJECT HAS NOT STARTED.		<b>SEDIMENT CONTROL PERMIT NO.</b> _____ <b>SM. FILE NO.</b> _____ PERMEABLE PAVEMENT, GRASS SWALE, OUTFALL REPAIR
NOTE: MCDCPS APPROVAL DOES NOT NEGATE THE NEED FOR A MCDCPS ACCESS PERMIT		

**CERTIFICATION OF QUANTITIES**

I HEREBY CERTIFY THAT THE ESTIMATED TOTAL AMOUNT OF EXCAVATION AND FILL AS SHOWN ON THESE PLANS HAS BEEN COMPUTED TO BE 5,192 CUBIC YARDS OF EXCAVATION AND 6,221 CUBIC YARDS OF FILL AND THAT THE TOTAL AREA TO BE DISTURBED AS SHOWN ON THESE PLANS HAS BEEN DETERMINED TO BE 288,115 SQUARE FEET.

01/05/2024  
 DATE  
 GLENN W. MARSCHKE, P.E.  
 VICE PRESIDENT, WALLACE MONTGOMERY

**MONTGOMERY COUNTY DOT MAINTENANCE CERTIFICATION**

I HEREBY CERTIFY THAT THE DEPARTMENT OF TRANSPORTATION WILL ASSUME MAINTENANCE RESPONSIBILITIES FOR ALL STORMWATER MANAGEMENT FACILITIES AS LISTED AND SHOWN, HEREON, IN ACCORDANCE WITH THE MEMORANDUM OF UNDERSTANDING BETWEEN THIS DEPARTMENT AND THE DEPARTMENT OF ENVIRONMENTAL PROTECTION DATED SEPTEMBER 1, 1986. IF, FOR ANY REASON, FUTURE IMPROVEMENTS TO THE ROADWAY ARE PLANNED THAT WOULD IMPACT ANY OF THE STORMWATER MANAGEMENT FACILITIES INCLUDED HEREIN, THIS DEPARTMENT WILL NOTIFY THE DEPARTMENT OF ENVIRONMENTAL PROTECTION DURING THE PLANNING OR EARLY DESIGN STAGE OF SUCH IMPROVEMENTS.

01/05/2024  
 DATE  
 JOSE THOMMANA  
 ACTING CHIEF, DIVISION OF TRANSPORTATION ENGINEERING

**OWNER'S / DEVELOPER'S CERTIFICATION**

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

01/05/2024  
 DATE  
 JOSE THOMMANA  
 ACTING CHIEF, DIVISION OF TRANSPORTATION ENGINEERING

**DESIGN CERTIFICATION**

I HEREBY CERTIFY THAT THIS PLAN HAS BEEN PREPARED IN ACCORDANCE WITH THE MONTGOMERY COUNTY DEPARTMENT OF TRANSPORTATION "DRAINAGE DESIGN" DATED NOVEMBER, 2013 (REV. JUNE 10, 2014)

01/05/2024  
 DATE  
 SETH H. DARLINGTON, P.E.  
 VICE PRESIDENT, WALLACE MONTGOMERY

**DESIGN CERTIFICATION**

I HEREBY CERTIFY THAT THIS PLAN HAS BEEN PREPARED IN ACCORDANCE WITH THE MONTGOMERY COUNTY DEPARTMENT OF PERMITTING SERVICES EXECUTIVE REGULATIONS 5-90. AND 7-02AM.

01/05/2024  
 DATE  
 GLENN W. MARSCHKE, P.E.  
 VICE PRESIDENT, WALLACE MONTGOMERY

**DESIGN CERTIFICATION**

I HEREBY CERTIFY THAT THIS PLAN HAS BEEN PREPARED IN ACCORDANCE WITH THE "2011 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL", AND MONTGOMERY COUNTY DEPARTMENT OF PERMITTING SERVICES EXECUTIVE REGULATIONS 36-90.

01/05/2024  
 DATE  
 GLENN W. MARSCHKE, P.E.  
 VICE PRESIDENT, WALLACE MONTGOMERY

**30% SUBMITTAL  
NOT FOR CONSTRUCTION**

**WALLACE MONTGOMERY**  
ENGINEERS • PLANNERS • SURVEYORS • CONSTRUCTION MANAGERS  
10150 York Road, Suite 200  
Hunt Valley, Maryland 21030  
410.494.9093 Tel / 410.667.0925 Fax  
www.WallaceMontgomery.com

**MC DOT**  
Montgomery County Department of Transportation  
100 EDISON PARK DR., 4TH FLOOR  
GAITHERSBURG, MD 20878

PLAN LOCATION OF SOIL BORING  
SOIL BORING LOG SUMMARY SHEETS ARE INCLUDED IN THE INVITATION FOR BIDS BOOK.

DATUM: NAD 83/91 HORIZONTAL  
NAVD 88 VERTICAL

<b>PROFESSIONAL CERTIFICATION</b> 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. SETH H. DARLINGTON LICENSE NO.: 39917 EXP. DATE: 01/18/2025	
--	--

NO.	REVISION	DATE	BY

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

RECOMMENDED FOR APPROVAL

Chief, Design Section \_\_\_\_\_ DATE \_\_\_\_\_  
APPROVED

Chief, Division of Engineering Services \_\_\_\_\_ DATE \_\_\_\_\_

DESIGNED BY: L.C.M. DRAWN BY: L.C.M. CHECKED BY: S.H.D.

**PLAN SHEET TI-01  
TITLE SHEET  
NORWOOD ROAD  
SHARED USE PATH**

SCALE : AS SHOWN      DATE : JAN, 2024

PROJECT NO.: C.I.P. # PENDING      SHEET NO. 01 OF 133

INDEX OF SHEETS

Table with 3 columns: SHEET NO., SHEET DESIGNATION, and DESCRIPTION. Lists sheets 1 through 67 with their respective descriptions, including title sheets, index sheets, general notes, pavement details, typical sections, curbs, geometric layouts, existing conditions plans, roadway plans, maintenance of traffic plans, stormwater management plans, drainage profiles, erosion and sediment control plans, signing and pavement marking plans, soil borings, and retaining wall plans.

\* NOT IN THIS SUBMISSION

INDEX OF SHEETS

Table with 3 columns: SHEET NO., SHEET DESIGNATION, and DESCRIPTION. Lists sheets 68 through 133 with their respective descriptions, primarily focusing on erosion and sediment control plans, tree planting plans, landscape plans, signal plans, lighting plans, and signing and pavement marking plans.

\* NOT IN THIS SUBMISSION

30% SUBMITTAL

PROFESSIONAL CERTIFICATION
I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND. SETH H. DARLINGTON
LICENSE NO.: 39917
EXP. DATE: 01/18/2025

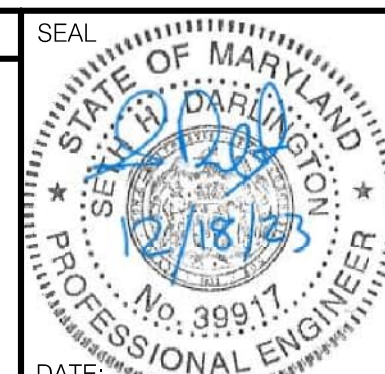


Table with 4 columns: NO., REVISION, DATE, BY. A grid for tracking revisions to the drawings.

RECOMMENDED FOR APPROVAL
Chief, Design Section
APPROVED
Chief, Division of Engineering Services
DATE
DESIGNED BY: L.C.M. DRAWN BY: L.C.M. CHECKED BY: S.H.D.



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

PLAN SHEET INDX-01
INDEX OF SHEETS
NORWOOD ROAD
SHARED USE PATH

SCALE : N.T.S. DATE : JAN, 2024
PROJECT NO.: C.I.P. # PENDING SHEET NO. 02 OF 133



BY: nkern

# ABBREVIATIONS

AASHTO.....American Association of State Highway Transportation Officials	HP.....High Point	R.Q.D.....Rock Quality Designation
ADT.....Average Daily Traffic	IN.....Inch	R.M.....Roommat
AHD.....Ahead	INV.....Invert	S.....South
APPROX.....Approximate	J.B.....Junction Box	SAN.....Sanitary Sewer
B or B/L.....Baseline	K.....K Inlet	SB or S/B.....Southbound
BK.....Back / Book	L.....Length	S.D.....Storm Drain
BIT.....Bituminous	LF.....Linear Feet	S.D.D.....Surface Drain Ditch
B.C.....Bituminous Concrete	L.L.....Liquid Limit	S/E.....Super Elevation
B.M.....Bench Mark	LOD.....Limit of Disturbance	SF.....Silt Fence
BOT.....Bottom	LP.....Low Point	SF.....Square Feet
C.C.....Center of Curve	L.P.....Light Pole	SHT.....Sheet
CAP.....Corrugated Aluminum Pipe	LT.....Left	SPP.....Structural Steel Plate Pipe
CAPA.....Corrugated Aluminum Pipe Arch	MAC.....Macadam	SPPA.....Structural Steel Plate Pipe Arch
CATV.....Cable Television	M.C.....Moisture Content	S.P.T.....Standard Penetration Testing
C.B.R.....California Bearing Ratio	MAX.....Maximum	SRP.....Steel Spiral Rib Pipe -
C or C/L.....Centerline	M.D.D.....Maximum Dry Content	Aluminized Type 2
CL.....Class	MOD.....Modified	SRPA.....Steel Spiral Rib Pipe Arch -
CLF.....Chainlink Fence	MIN.....Minimum	Aluminized Type 2
CMP.....Corrugated Metal Pipe	N.....North	SSD.....Stopping Sight Distance
C.O.....Cleanout	NB.....Northbound	SSF.....Super Silt Fence
COMB.....Combination	NE.....Northeast	STD.....Standard
CONC.....Concrete	N.P.....Non-Plastic	STA.....Station
CONSTR.....Construction	O.C.....On Center	SO.....Single Opening
COR.....Corner	OHE.....Overhead Electric	SY.....Square Yards
CORR.....Correction	O.M.....Optimum Moisture	SWM.....Stormwater Management
CPP-S.....Corrugated Polyethylene Pipe - Type 'S'	PAVT.....Pavement	T.....Tangent
CSP.....Corrugated Steel Pipe - Aluminized Type 2	PC.....Point of Curvature	T.....Telephone
CSPA.....Corrugated Steel Pipe Arch -	PCC.....Point of Compound Curvature	T.C.....Top of Cover
Aluminized Type 2	P/C.....Point of Crown	T.G.....Top of Grate
DC.....Degree of Curve	P/GE.....Profile Grade Elevation	T or TL.....Traverse Line
D.H.V.....Design Hourly Volume	P.G.E.....Profile Ground Elevation	T.M.....Top of Manhole
D.I.....Drop Inlet	P.G.L.....Profile Grade Line	TRAV.....Traverse
DIA.....Diameter	P/GL.....Profile Ground Line	TS.....Temporary Swale
D.O.....Double Opening	P/R.....Point of Rotation	T.S.....Top of Slab
E.....East	P.I.....Plasticity Index	T.S.....Topsoil
E.....Electric	PI.....Point of Intersection	TYP.....Typical
E.....External Distance	POC.....Point On Curve	U.D.....Under Drain
EA.....Each	POT.....Point On Tangent	U.G.....Underground
EB.....Eastbound	PPWP.....Polyvinyl Chloride Profile Wall Pipe	U.P.....Utility Pole
ELEV.....Elevation	PROP.....Proposed	US EPA.....United States Environmental
ES.....End Section	PRC.....Point of Reverse Curve	Protection Agency
ESC.....Erosion and Sediment Control	PT.....Point	USDA.....United States Department
EX or EXIST.....Existing	PT.....Point of Tangency	of Agriculture
FT.....Feet	PVC.....Point of Vertical Curve	VCL.....Vertical Clearance
F or FL.....Flowline	PVC.....Polyvinyl Chloride	V.C.L.....Vertical Curve Length
F.B.D.....Flat Bottom Ditch	PVI.....Point of Vertical Intersection	W.....Water
F.H.....Fire Hydrant	PVRC.....Point of Vertical Reverse Curve	W.....West
FWD.....Forward	PVT.....Point of Vertical Tangency	WB.....Westbound
G.....Gas	R.....Radius	WB.....Wetland Buffer
G.V.....Gas Valve	R.F.....Rock Fragments	W.M.....Water Meter
H.B.....Handbox	RT.....Right	W.S.....Wrapped Steel
HDWL.....Headwall	RW or R/W.....Right of Way	WUS.....Waters of the United States
HERCP.....Horizontal Elliptical Reinforced	RCP.....Reinforced Concrete Pipe	W.V.....Water Valve
Concrete Pipe	RCPP.....Reinforced Concrete Pressure Pipe	

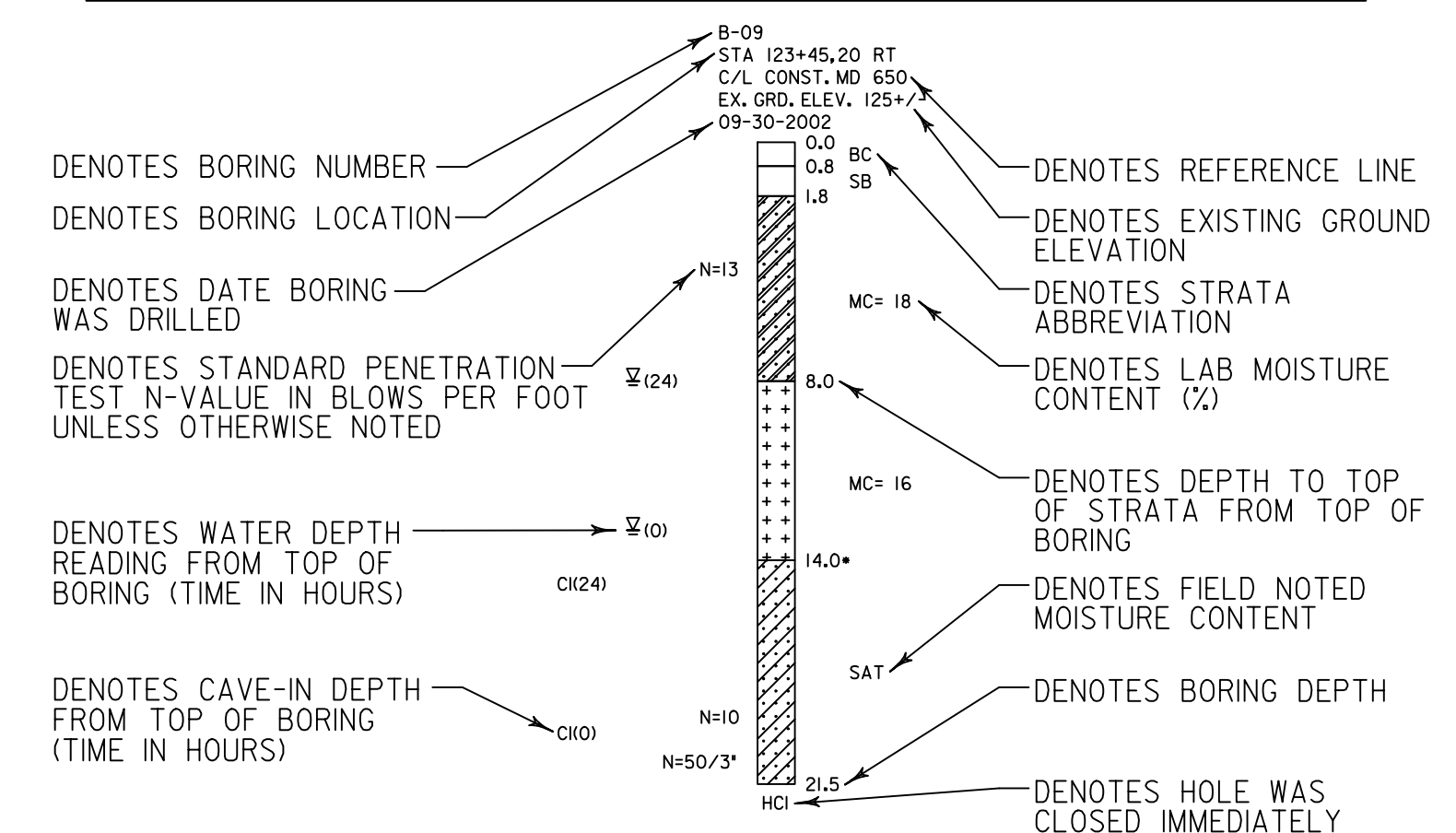
# GENERAL NOTES

- ALL WORK ON THIS PROJECT SHALL CONFORM TO THE LATEST APPROVED MARYLAND DEPARTMENT OF TRANSPORTATION STATE HIGHWAY ADMINISTRATION (MDOT SHA) "STANDARD SPECIFICATIONS FOR CONSTRUCTION AND MATERIALS" REVISIONS THEREOF OR ADDITIONS THERETO, AS INDICATED IN THE PROJECT DESCRIPTION OF THE INVITATION FOR BIDS BOOK; THE SPECIAL PROVISIONS INCLUDED IN THE INVITATION FOR BIDS BOOK; THE ADMINISTRATION'S "BOOK OF STANDARDS FOR HIGHWAY AND INCIDENTAL STRUCTURES" AND THE LATEST ADOPTED MUTCD, WASHINGTON SUBURBAN SANITARY COMMISSION (W.S.S.C.) STANDARDS, MONTGOMERY COUNTY DEPARTMENT OF PUBLIC WORKS AND TRANSPORTATION STANDARDS, AND SOIL CONSERVATION SERVICE POND CONSTRUCTION SPECIFICATIONS FOR MARYLAND.
- FOR CONSTRUCTION, ALL HORIZONTAL CONTROL SHALL BE STATE HIGHWAY ADMINISTRATION NAD 8391 AND VERTICAL CONTROL NAVD 88.
- INFORMATION CONCERNING UNDERGROUND UTILITIES WAS OBTAINED FROM AVAILABLE RECORDS, BUT THE CONTRACTOR MUST DETERMINE THE EXACT LOCATION AND ELEVATIONS OF THE LINES BY DIGGING TEST PITS BY HAND AT ALL UTILITY CROSSINGS WELL IN ADVANCE OF TRENCHING. IF CLEARANCES ARE LESS THAN SHOWN ON THIS PLAN OR SIX (6) INCHES, WHICH-EVER IS LESS, THE CONTRACTOR SHALL CONTACT THE MONTGOMERY COUNTY DEPARTMENT OF PUBLIC WORKS AND TRANSPORTATION'S PROJECT INSPECTOR AND THE UTILITY OWNER BEFORE PROCEEDING WITH CONSTRUCTION.
- 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 UNDERGROUND 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 THE REQUIREMENTS OF CHAPTER 36A OF THE MONTGOMERY COUNTY CODE. REPAIRS TO UTILITIES OR PROPERTY DAMAGED AS A RESULT OF THE CONTRACTOR'S NEGLIGENCE OR METHOD OF OPERATION, MUST BE MADE AT THE CONTRACTOR'S EXPENSE WITHOUT ADDITIONAL COST TO MONTGOMERY COUNTY BEFORE PROCEEDING WITH CONSTRUCTION.
- GRADING SHALL BE DONE IN SUCH A MANNER AS TO PROVIDE POSITIVE DRAINAGE IN BOTH TEMPORARY AND PERMANENT CONDITIONS.
- DISTURBED AREAS ADJACENT TO ESTABLISHED LAWNS SHALL BE SODDED. OTHER DISTURBED AREAS SHALL BE SEEDED AND MULCHED.
- CLEARING TO BE LIMITED TO THE "LIMIT OF DISTURBANCE" AS SHOWN ON THE PLANS.
- CONTACT THE WASHINGTON SUBURBAN SANITARY COMMISSION SYSTEM MAINTENANCE ENGINEER BEFORE EXCAVATING BENEATH OR IN THE VICINITY OF EXISTING WATER OR SEWER LINES. BACKFILL TO BE DONE UNDER THE SUPERVISION OF W.S.S.C., CALL (301) 699-4420
- ALL STORM DRAINS SHALL BE INSTALLED WITH CLASS "C" BEDDING UNLESS OTHERWISE NOTED.
- ALL UTILITY POLES NOTED FOR RELOCATION SHALL BE PERFORMED BY OTHERS.
- THE CONTRACTOR SHALL OBTAIN A ROADSIDE TREE PERMIT FOR ANY MAINTENANCE, TREATMENT, PLANTING, REMOVAL OR ROOT CUTTING ON TREES WITHIN THE PUBLIC RIGHT-OF-WAY BEFORE STARTING A JOB. PERMIT REQUIREMENTS MAY BE OBTAINED FROM THE DEPARTMENT OF NATURAL RESOURCES - MARYLAND FOREST, PARK AND WILDLIFE SERVICE WHOSE TELEPHONE NUMBER IS (301) 854-6060. THE PERMIT PROCESS TAKES SEVERAL DAYS. TAKE THIS INTO CONSIDERATION BEFORE STARTING A JOB.
- THE LOCATION OF RIGHT-OF-WAY AND EASEMENT LINES SHOWN ON THE PLANS ARE FOR INFORMATION AND GUIDANCE ONLY. NO GUARANTEE IS MADE AS TO THE ACCURACY OF SAID LOCATIONS. PLEASE REFER TO THE APPROPRIATE RIGHT-OF-WAY PLAT FILES NO. XXX TO XXX.
- CONCRETE DESIGN: SERVICE LOAD DESIGN METHOD.
- REINFORCING STEEL DESIGN: (f<sub>s</sub>=24,000 PSI)
- CONCRETE COMPRESSIVE STRENGTH FOR DESIGN SHALL BE f'<sub>c</sub>=3000 psi. ALL CONCRETE SHALL BE MIX NO.2 f'<sub>c</sub>=3000 psi UNLESS OTHERWISE NOTED.
- REINFORCING STEEL SHALL CONFORM TO "ASTM" A 615, GRADE 60. ALL SPLICES, NOT SHOWN, SHALL BE LAPPED AS PER ACI 318 REQUIREMENTS. MINIMUM COVER FOR ANY BAR SHALL BE 2" UNLESS OTHERWISE NOTED.
- FOR ADDITIONAL NOTES ON DRAINAGE STRUCTURES AND RETAINING WALLS SEE NOTES ELSEWHERE IN PLANS.
- WHERE CURB AND GUTTER ENDS ARE EXPOSED, PROVIDE A NOSE DOWN SECTION AT 3:1 SLOPE.
- DISTURBED AREAS TO BE PERMANENTLY GRASS SHALL RECEIVE 2" OF TOPSOIL.
- STORM DRAIN AND UTILITY INSTALLATION WITHIN SHA RIGHT-OF-WAY AND IN EXISTING PAVEMENT SHALL BE IN ACCORDANCE WITH MD 578.01. ALL COSTS ASSOCIATED WITH MEETING THE REQUIREMENTS OF MD 578.01 SHALL BE INCIDENTAL TO THE APPLICABLE UTILITIES AND STORM DRAIN ITEMS.
- SUBSURFACE INVESTIGATION RESULTS (TEST HOLES, SOIL BORINGS, ETC.) WILL BE MADE AVAILABLE TO THE CONTRACTOR.
- PROPOSED INLETS AND ASSOCIATED PIPE EXTENSIONS SHALL BE CONNECTED TO THE NEAREST SOUND JOINT OF THE EXISTING PIPE AND IN COMPLIANCE WITH THE CONCRETE COLLAR CONNECTION DETAIL SHOWN ON THE STORM DRAIN SCHEDULE SHEET. PIPE CONNECTIONS WHETHER NEW PIPES TO EXISTING PIPES, NEW INLETS TO EXISTING PIPES, OR NEW PIPES TO EXISTING INLETS WILL NOT BE PAID FOR SEPARATELY, BUT WILL BE CONSIDERED INCIDENTAL TO PERTINENT STORM DRAIN ITEMS.
- NOTIFY MR. TONY GOODMAN (703) 750-4708 OF WASHINGTON GAS, FOR STAND BY, 48 HOURS PRIOR TO ANY EXCAVATION IN THE VICINITY OF NATURAL GAS TRANSMISSION LINES.
- ANY RELOCATION OF EXISTING NATURAL GAS TRANSMISSION LINES MAY ONLY BE ABLE TO BE PERFORMED DURING THE NON-HEATING SEASON, MAY THROUGH SEPTEMBER.

# CONVENTIONAL SIGNS

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

# SOIL BORING PROFILE EXAMPLE



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

# 30% SUBMITTAL

PROFESSIONAL CERTIFICATION

I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND. SETH H. DARLINGTON

LICENSE NO.: 39917

EXP. DATE: 01/18/2025

SEAL

STATE OF MARYLAND

PROFESSIONAL ENGINEER

DATE: \_\_\_\_\_

MONTGOMERY COUNTY DEPARTMENT OF TRANSPORTATION  
100 EDIPSON PARK DRIVE, 4TH FLOOR  
GAITHERSBURG, MD 20878

RECOMMENDED FOR APPROVAL

Chief, Design Section DATE \_\_\_\_\_

APPROVED

Chief, Division of Engineering Services DATE \_\_\_\_\_

DESIGNED BY: L.C.M. DRAWN BY: L.C.M. CHECKED BY: S.H.D.

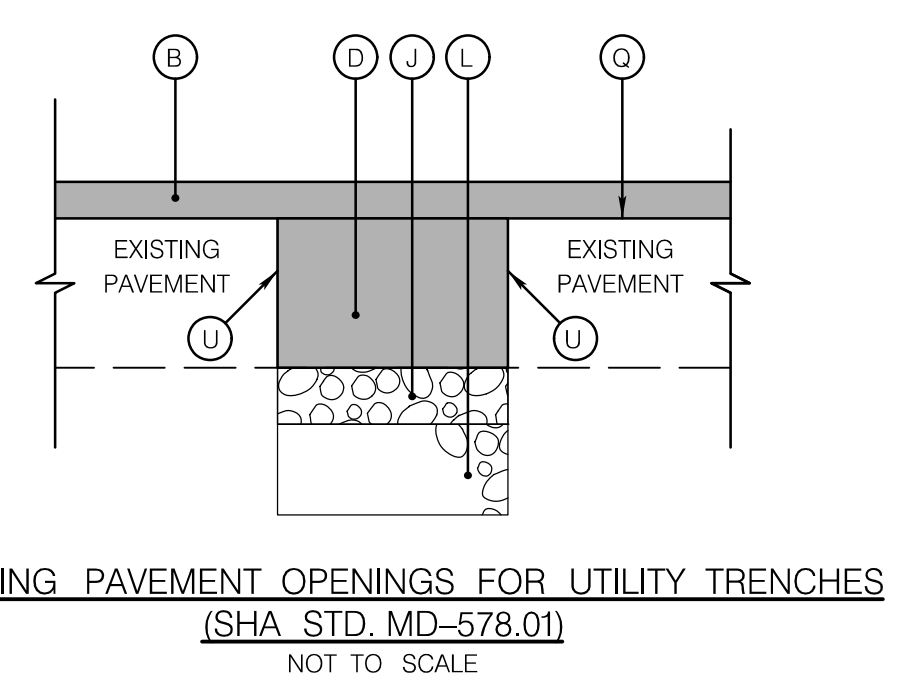
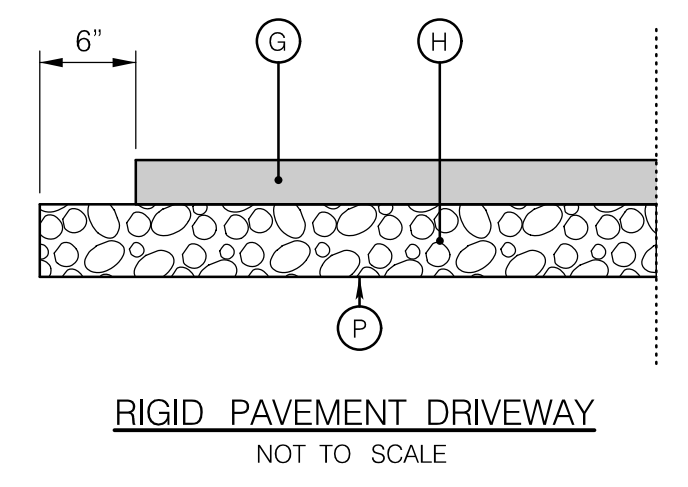
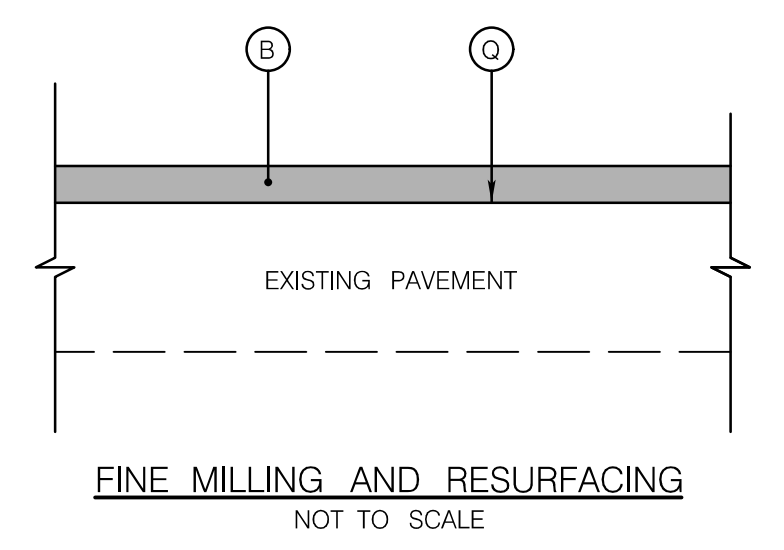
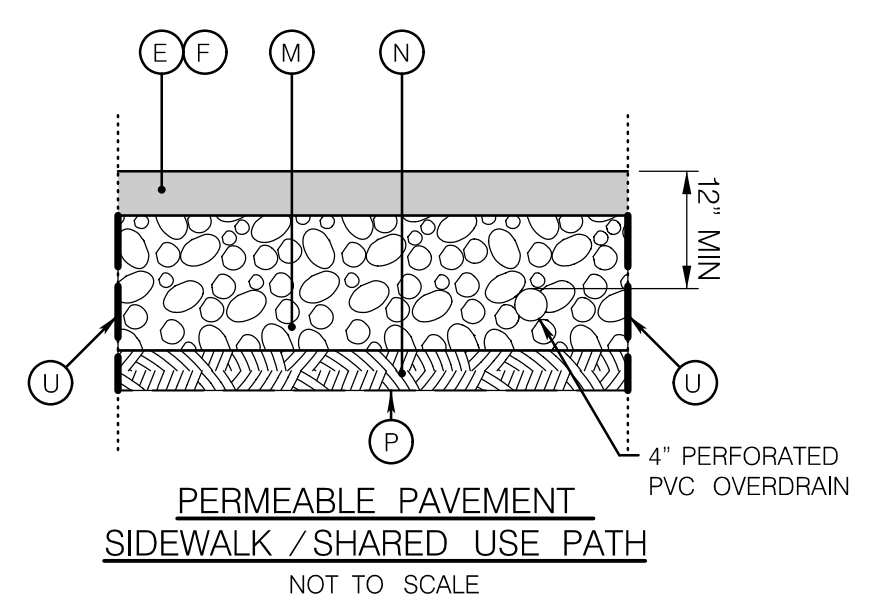
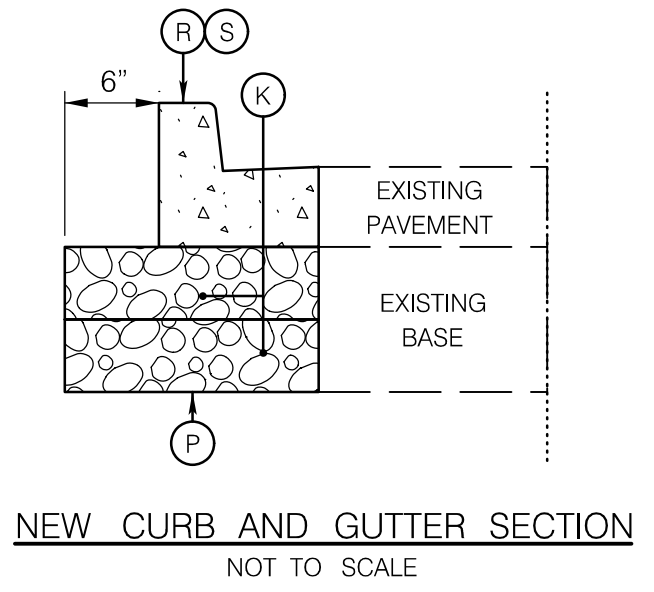
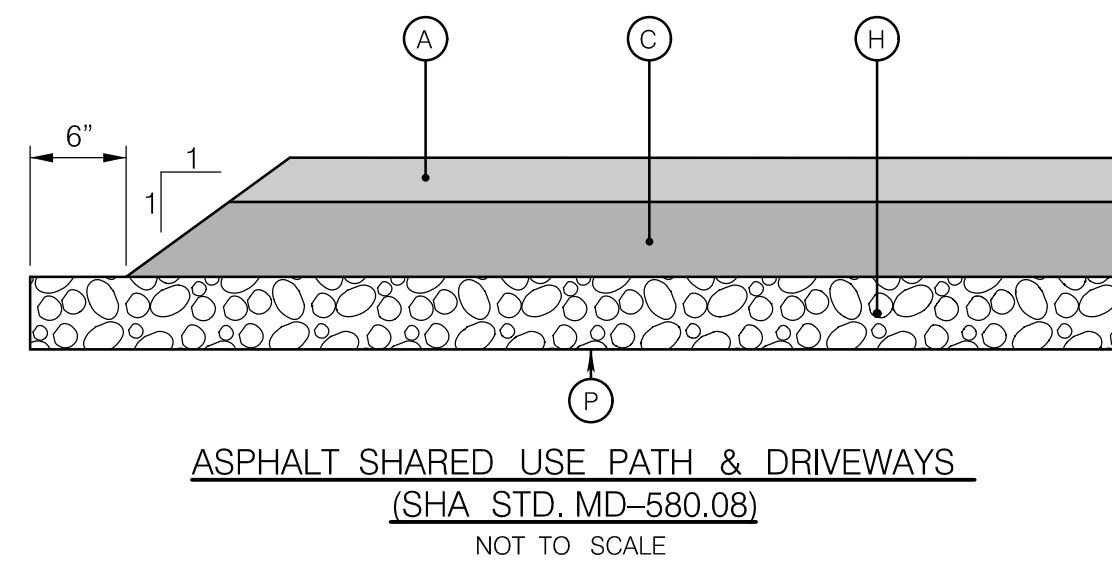
PLAN SHEET GN-01  
GENERAL NOTES, LEGEND AND ABBREVIATIONS  
NORWOOD ROAD  
SHARED USE PATH

SCALE : N.T.S. DATE : JAN, 2024

PROJECT NO.: C.I.P. # PENDING SHEET NO. 03 OF 133

PAVEMENT LEGEND

- (A) 1.5" SUPERPAVE ASPHALT MIX 9.5 mm FOR SURFACE, PG64S-22, LEVEL 2
- (B) 2" SUPERPAVE ASPHALT MIX 12.5 mm FOR SURFACE, PG64S-22, LEVEL 2
- (C) 2.5" SUPERPAVE ASPHALT MIX 19.0 mm FOR BASE, PG64S-22, LEVEL 2
- (D) VAR. SUPERPAVE ASPHALT MIX 19.0 mm FOR FULL-DEPTH PATCH, DEPTH PG 64S-22, LEVEL 2 (MIN. OF 3" & MAX. OF 5" LIFT THICKNESS) SEE NOTE 5.
- (E) 3" PERMEABLE PERVIOUS ASPHALT COURSE
- (F) 5" PERMEABLE PERVIOUS CONCRETE COURSE
- (G) 7" PLAIN PORTLAND CEMENT CONCRETE PAVEMENT, MIX NO. 9
- (H) 4" GRADED AGGREGATE BASE COURSE
- (J) 6" GRADED AGGREGATE BASE COURSE
- (K) 6" GRADED AGGREGATE BASE COURSE (INCIDENTAL TO C&G PAYMENT)
- (L) 12" AASHTO M 2.5 AGGREGATE
- (M) 16" AASHTO M 2.5 AGGREGATE
- (N) 6" ASTM C-33 FINE AGGREGATE CONCRETE SAND
- (P) TOP OF SUBGRADE & LIMIT OF EXCAVATION; SEE NOTE 2
- (Q) EXISTING PAVEMENT SURFACE AFTER 2" FINE MILLING
- (R) COMBINATION CONCRETE CURB AND GUTTER - TYPE A (STD. NO. MC-100.01)
- (S) DEPRESSED CURB ELEVATION (STD. MC-102.01)
- (T) PERMEABLE NON-WOVEN GEOTEXTILE FILTER FABRIC
- (U) SAWCUT



NOTES:

1. IF NECESSARY, USE THE FOLLOWING ITEMS FOR WEDGELEVEL, AS DIRECTED BY THE ENGINEER:
  - SUPERPAVE ASPHALT MIX 9.5 mm FOR WEDGELEVEL, PG 64S-22, LEVEL 2 (MINIMUM OF 1" AND A MAXIMUM OF 2" LIFT THICKNESS).
  - SUPERPAVE ASPHALT MIX 19.0 mm FOR WEDGELEVEL, PG 64S-22, LEVEL 2 (MINIMUM OF 2" AND A MAXIMUM OF 5" LIFT THICKNESS).
2. IN AREAS WHERE EXISTING PAVEMENT IS BEING REMOVED, THE LIMIT OF CLASS 1 EXCAVATION SHALL BE AT THE BOTTOM OF THE BOUND (HMA, PCC, AND/OR CELLULAR CONFINEMENT SYSTEM MATERIALS IN THE EXISTING PAVEMENT OR AT THE TOP OF SUBGRADE, WHICHEVER IS DEEPER).
3. PARTIAL-DEPTH PATCHES FOR FLEXIBLE PAVEMENT SHALL BE CONSTRUCTED PER SHA STANDARD NO. 578.03. SQUARE OFF FOUR SIDES OF THE PATCHES WITH VERTICAL FACE. USE THE FOLLOWING:
  - 5" SUPERPAVE ASPHALT MIX 25.0 mm FOR PARTIAL-DEPTH PATCH, PG 64S-22, LEVEL 2 (MINIMUM OF 3" AND A MAXIMUM OF 5" LIFT THICKNESS)
4. IF THE UNDERLYING ASPHALT CONCRETE BASE IS FOUND TO BE DETERIORATED AT THE TIME OF THE PARTIAL-DEPTH PATCHING, IT SHOULD BE REMOVED AND REPLACED WITH THE FOLLOWING:
  - SUPERPAVE ASPHALT MIX 25.0 mm FOR FULL-DEPTH PATCH, PG 64S-22, LEVEL 2.
5. UTILITY PATCHES SHALL BE CONSTRUCTED PER SHA STANDARD NO. 578.01 AND PER SECTION 303 OF SHA'S STANDARD SPECIFICATIONS FOR CONSTRUCTION AND MATERIALS. SQUARE OFF FOUR SIDES OF THE PATCH WITH VERTICAL FACE.
6. PERMEABLE PAVEMENT NOTES:
  - i. CONTRACTOR SHALL INSTALL PERMEABLE PAVEMENT SECTION PER SPECIFICATIONS. CONSTRUCTION SPECIFICATIONS SHALL MEET MDE STORMWATER DESIGN MANUAL APPENDIX B-4, PERMEABLE PAVEMENT SPECIFICATIONS FOR MONTGOMERY COUNTY DPS.
  - ii. SEE PLANS FOR LIMITS OF PERVIOUS ASPHALT AND POROUS CONCRETE SURFACE.
  - iii. CONCRETE JOINTS TO BE INSTALLED EVERY 8" MINIMUM.
  - iv. 12" MINIMUM COVER FROM TOP OF CONCRETE OR ASPHALT TO TOP OF OVERDRAIN PIPE IS REQUIRED.
  - v. SUBGRADE BOTTOM MUST BE LEVEL, ROTO-TILL SUBGRADE PRIOR TO INSTALLATION. INSTALL STEPS AS NEEDED TO MAINTAIN MINIMUM 6 INCHES OF AGGREGATE.

30% SUBMITTAL

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Hunt Valley, Maryland 21030  
410.494.9093 Tel / 410.667.0925 Fax  
www.WallaceMontgomery.com A Limited Liability Partnership

PROFESSIONAL CERTIFICATION  
I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND. SETH H. DARLINGTON  
LICENSE NO.: 39917  
EXP. DATE: 01/18/2025

SEAL  
STATE OF MARYLAND  
PROFESSIONAL ENGINEER  
No. 39917  
DATE: \_\_\_\_\_

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

RECOMMENDED FOR APPROVAL

Chief, Design Section DATE  
APPROVED

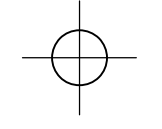
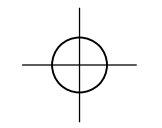
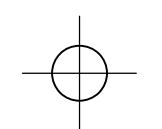
Chief, Division of Engineering Services DATE

DESIGNED BY: L.C.M. DRAWN BY: L.C.M. CHECKED BY: S.H.D.

**PLAN SHEET DE-01**  
**PAVEMENT DETAILS**  
**NORWOOD ROAD**  
**SHARED USE PATH**

SCALE: N.T.S. DATE: DEC. 2024

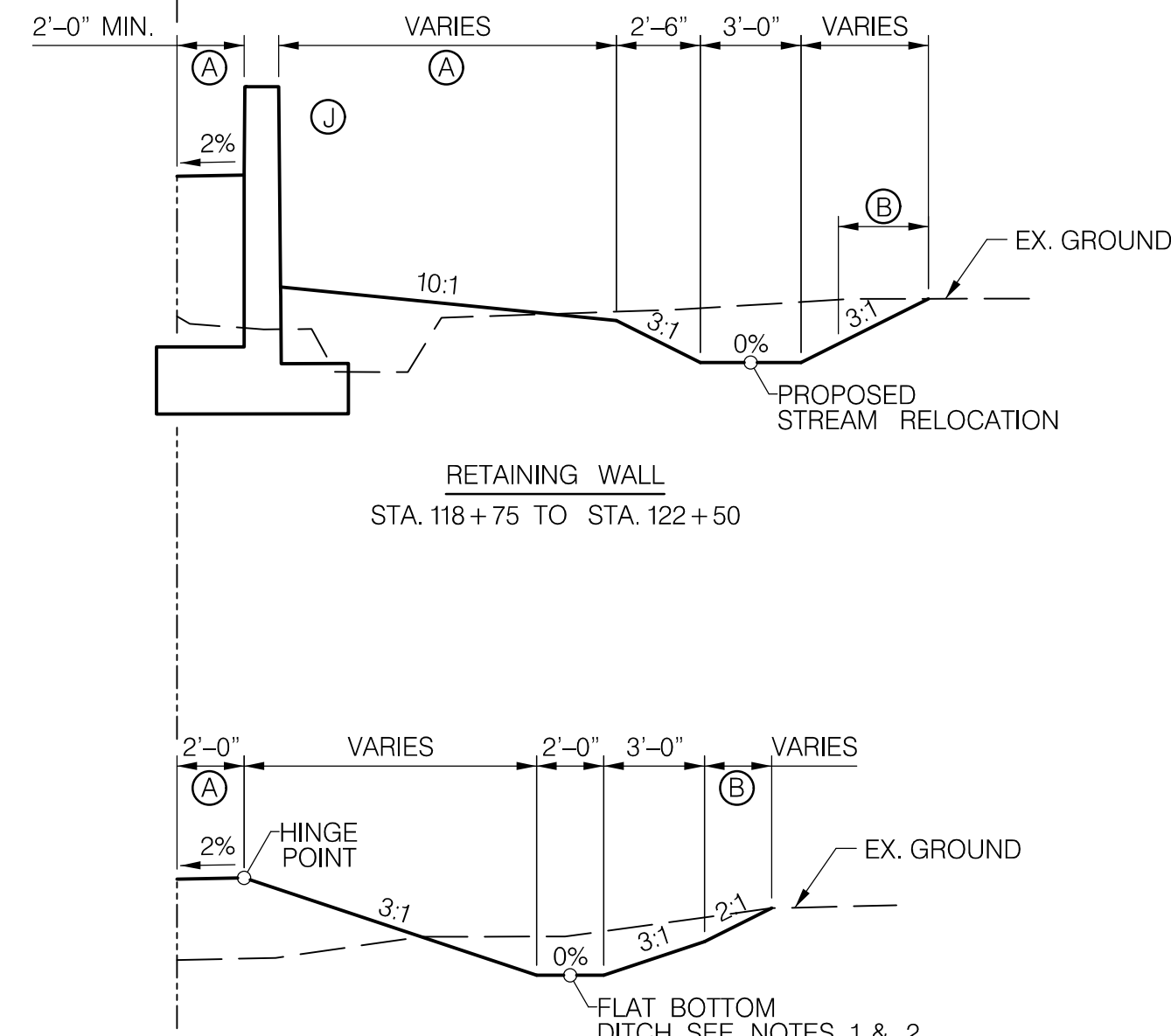
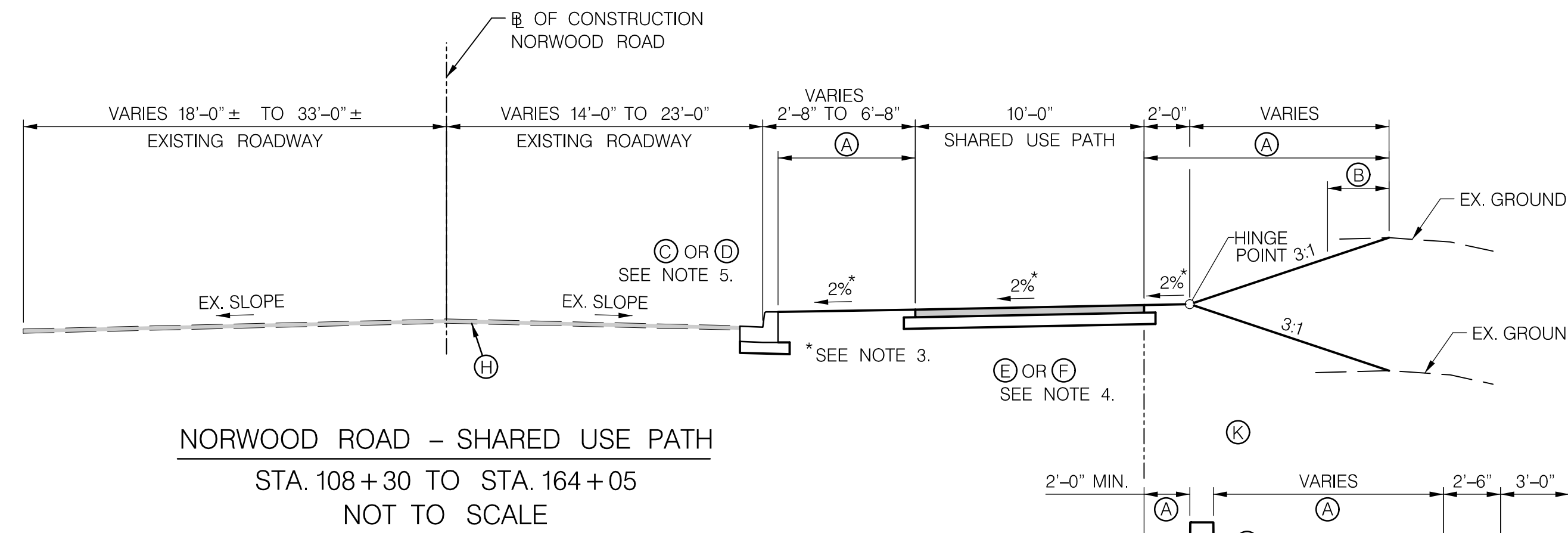
PROJECT NO.: C.I.P. # PENDING SHEET NO. OF 133



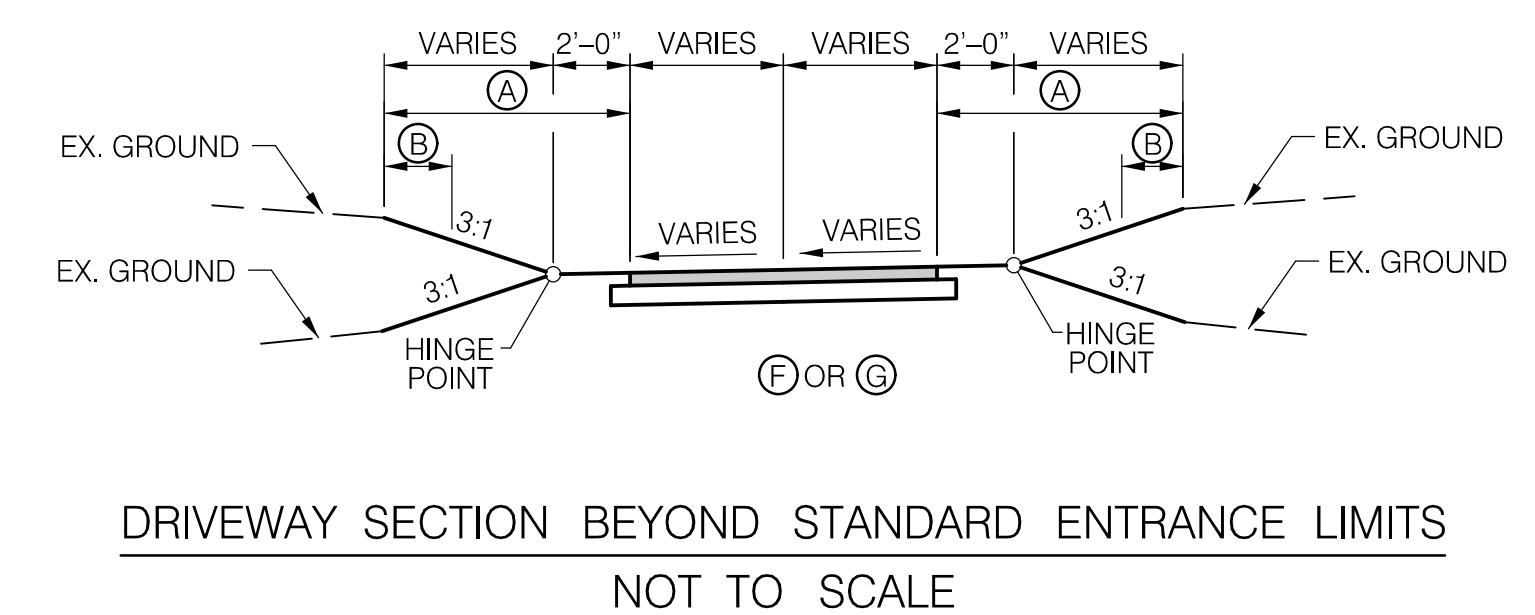
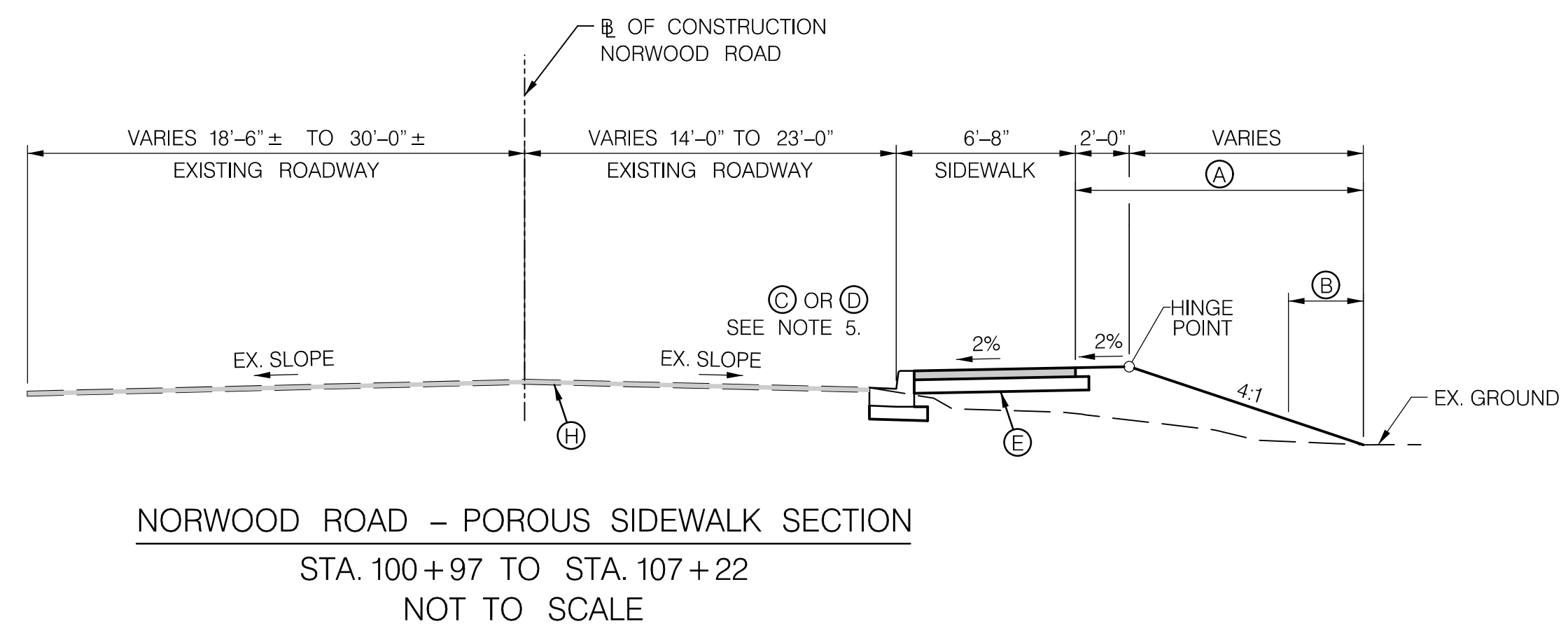
BY: nkern

TYPICAL SECTION LEGEND

- (A) PLACE 4" TOPSOIL AND SOD EXCEPT WHERE DITCH LININGS ARE TO BE BIOFILTRATION SEED MIX, RIPRAP, OR CONCRETE.
- (B) SLOPE ROUNDING (STD. MC-811.01)
- (C) COMBINATION CONCRETE CURB AND GUTTER - TYPE A (STD NO. MC-100.01)
- (D) DEPRESSED CURB ENTRANCE (STD. MC-102.01)
- (E) PERMEABLE PAVEMENT SIDEWALK /SHARED USE PATH (SEE DETAIL ON DE-01)
- (F) ASPHALT SHARED USE PATH & DRIVEWAYS (SHA STD MD-580.08; SEE DETAIL ON DE-01)
- (G) RIGID PAVEMENT DRIVEWAY SECTION (SEE DETAIL ON DE-01)
- (H) GRIND AND RESURFACE (SEE DETAIL ON DE-01)
- (J) RETAINING WALL
- (K) PROPOSED FENCE



- NOTES:
- DITCH STABILIZATION: UNLESS OTHERWISE NOTED, PLACE SEED AND 2" TOPSOIL. STABILIZE WITH TYPE A SOIL STABILIZATION MATTING. SEE MD 389.06 AND MD 389.07 FOR PLACEMENT OF MATTING.
  - DITCH DEPTH VARIES. SEE DRAINAGE DETAILS FOR DITCH STAKEOUT CHARTS.
  - CROSS SLOPES VARY AT ADA RAMP APPROACHES. SEE DETAIL SHEETS FOR CROSS SLOPES AND ELEVATIONS.
  - SEE ROADWAY PLANS FOR LIMITS OF PERMEABLE ASPHALT SHARED USE PATH.
  - SEE ROADWAY PLANS FOR DEPRESSED CURB ENTRANCE LOCATIONS.



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DATUM: NAD 83/91 HORIZONTAL  
 NAVD 88 VERTICAL

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 SETH H. DARLINGTON  
 No. 39917  
 PROFESSIONAL ENGINEER

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

RECOMMENDED FOR APPROVAL

Chief, Design Section DATE  
 APPROVED

Chief, Division of Engineering Services DATE

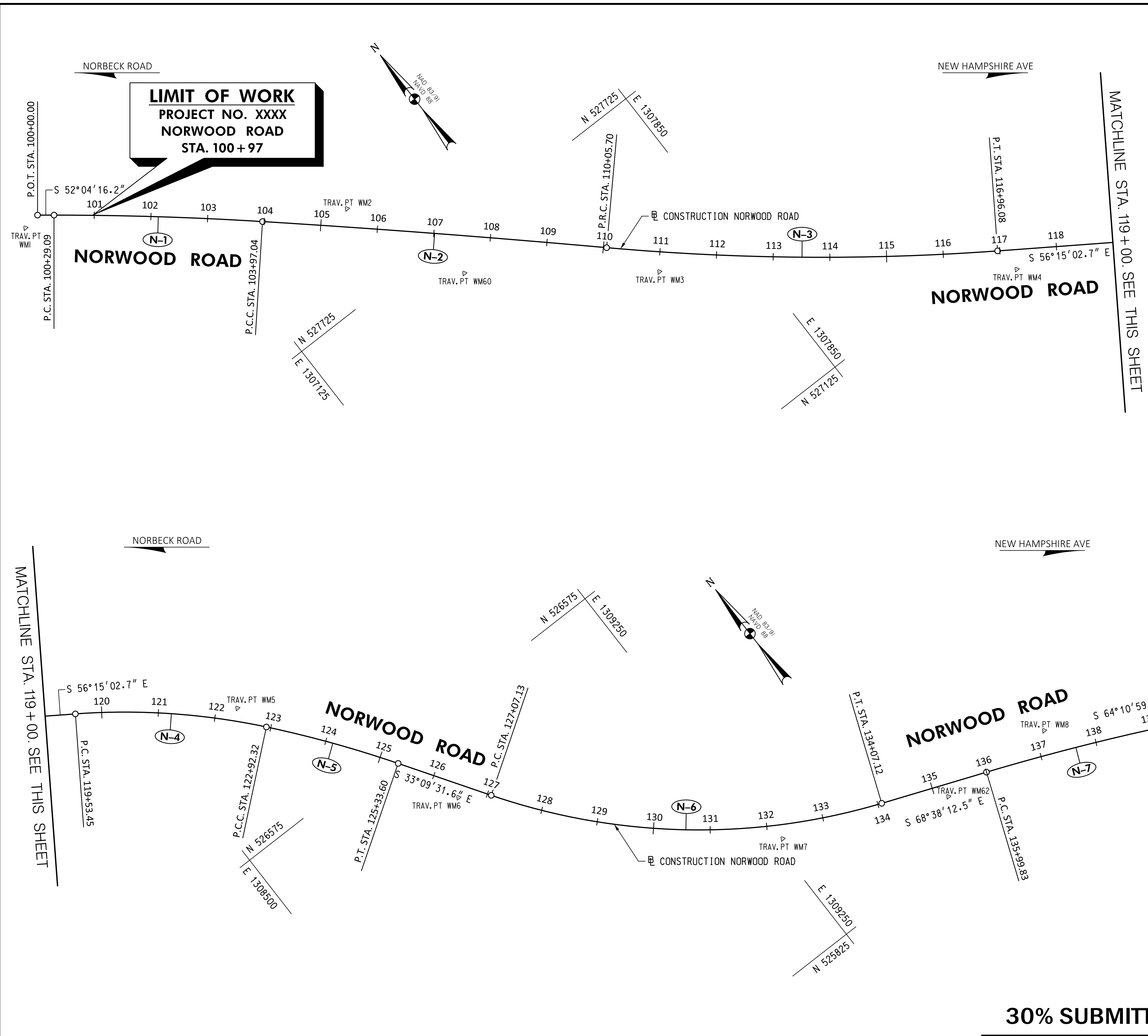
DESIGNED BY: L.C.M. DRAWN BY: L.C.M. CHECKED BY: S.H.D.

**PLAN SHEET TS-01  
 TYPICAL SECTION  
 NORWOOD ROAD  
 SHARED USE PATH**

SCALE: N.T.S. DATE: JAN, 2024

PROJECT NO.: C.I.P. # PENDING SHEET NO. 05 OF 133





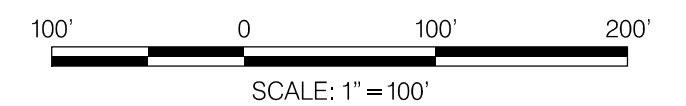
CURVE DATA								
CURVE	BASELINE	DELTA	Dc	RADIUS	TANGENT	LENGTH	CHORD	EXTERNAL
N-1	NORWOOD ROAD	03°32'33.1" RT.	00°57'45.97"	5,951.15'	184.03'	367.95'	367.95'	2.84'
N-2	NORWOOD ROAD	01°35'06.6" RT.	00°15'37.57"	22,000.00'	304.35'	608.66'	608.66'	2.11'
N-3	NORWOOD ROAD	09°18'26.2" L.T.	01°20'53.29"	4,250.00'	345.95'	690.38'	689.62'	14.06'
N-4	NORWOOD ROAD	16°10'47.6" RT.	04°46'28.73"	1,200.00'	170.57'	338.87'	337.75'	12.06'
N-5	NORWOOD ROAD	06°54'43.5" RT.	02°51'53.24"	2,000.00'	120.79'	241.28'	241.13'	3.64'
N-6	NORWOOD ROAD	35°28'40.9" L.T.	05°04'06.02"	1,130.46'	361.63'	699.99'	688.86'	56.43'
N-7	NORWOOD ROAD	04°27'13.5" RT.	01°21'36.90"	4,212.15'	163.79'	327.42'	327.34'	3.18'

BASELINE CONSTRUCTION NORWOOD ROAD					
ELEMENT	POINT NO.	STATION	NORTHING	EASTING	BEARING
POINT	P.O.T.	100+00.00	528,699.7401	1,304,906.4205	
	(N-1)	P.C.	100+29.09	528,681.8579	1,304,929.3673
(N-1)	P.I.	102+13.13	528,568.7353	1,305,074.5288	
	P.C.C.	103+97.04	528,446.8594	1,305,212.4233	S 48°31'43.1" E
(N-2)	P.I.	107+01.39	528,245.3060	1,305,440.4677	
	P.R.C.	110+05.70	528,037.5213	1,305,662.8492	S 46°56'36.5" E
(N-3)	P.I.	113+51.65	527,801.3335	1,305,915.6293	
	P.T.	116+96.08	527,609.1370	1,306,203.2800	S 56°15'02.7" E
(N-4)	P.C.	119+53.45	527,466.1527	1,306,417.2772	
	P.I.	121+24.02	527,371.3906	1,306,559.1027	
(N-5)	P.C.C.	122+92.32	527,240.8617	1,306,668.9048	S 40°04'15.1" E
	P.I.	124+13.11	527,148.43100	1,306,746.6584	
(N-6)	P.T.	125+33.60	527,047.3147	1,306,812.7231	S 33°09'31.6" E
	P.C.	127+07.13	526,902.0450	1,306,907.6358	
(N-7)	P.I.	130+68.75	526,599.3071	1,307,105.4309	
	P.T.	134+07.12	526,467.5746	1,307,442.2093	S 68°38'12.5" E
(N-7)	P.C.	135+99.83	526,397.3754	1,307,621.6758	
	P.I.	137+63.62	526,337.7090	1,307,774.2150	S 64°10'59.0" E
	P.T.	139+27.25	526,266.3773	1,307,921.6602	

TRAVERSE POINTS				
POINT NO.	NORTHING	EASTING	ELEVATION	DESCRIPTION
TRAV. PT NBK4	528,766.8430	1,304,836.4530	382.180	RAILROAD SPIKE
TRAV. PT NBK3	528,914.1440	1,306,377.9370	371.510	REBAR & CAP
TRAV. PT WMI	528,196.3350	1,306,874.6129	378.471	REBAR & CAP
TRAV. PT WM2	527,874.5851	1,307,342.7493	393.525	REBAR & CAP
TRAV. PT WM3	527,448.2216	1,307,709.0137	405.143	REBAR & CAP
TRAV. PT WM4	527,064.2218	1,308,208.8063	423.591	REBAR & CAP
TRAV. PT WM5	526,799.8229	1,308,647.9049	436.347	REBAR & CAP
TRAV. PT WM6	526,435.9235	1,308,858.4388	451.164	REBAR & CAP
TRAV. PT WM7	526,027.0712	1,309,264.9021	472.780	REBAR & CAP
TRAV. PT WM8	525,894.1804	1,309,745.9025	487.944	REBAR & CAP
TRAV. PT WM60	527,657.5768	1,307,436.1212	398.485	HUB & MAG NAIL
TRAV. PT WM62	525,906.1313	1,309,541.1675	483.954	HUB & MAG NAIL

\* TRAVERSE POINT NOT SHOWN ON PLAN, OUTSIDE OF PLAN LIMIT

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DATUM: NAD 83/91 HORIZONTAL  
 NAVD 88 VERTICAL

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MONTGOMERY COUNTY  
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 100 EDISON PARK DRIVE, 4TH FLOOR  
 GAITHERSBURG, MD 20878

RECOMMENDED FOR APPROVAL

Chief, Design Section DATE \_\_\_\_\_  
 APPROVED

Chief, Division of Engineering Services DATE \_\_\_\_\_

DESIGNED BY: L.C.M. DRAWN BY: L.C.M. CHECKED BY: S.H.D.

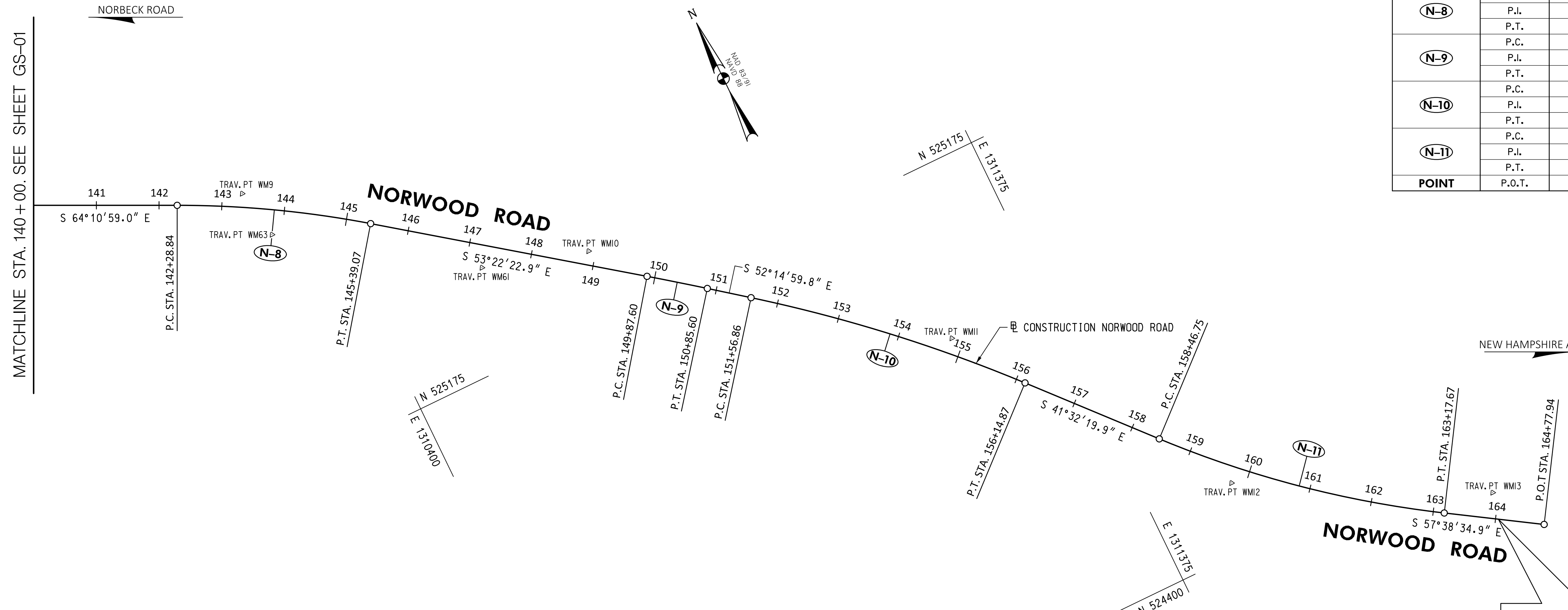
**PLAN SHEET GS-01  
 GEOMETRIC LAYOUT  
 NORWOOD ROAD  
 SHARED USE PATH  
 STA. 100+00 TO STA. 140+00**

SCALE: 1"=100' DATE: JAN, 2024

PROJECT NO.: C.I.P. # PENDING SHEET NO. XX OF 133

CURVE DATA								
CURVE	BASELINE	DELTA	Dc	RADIUS	TANGENT	LENGTH	CHORD	EXTERNAL
N-8	NORWOOD ROAD	10° 48' 36.0" RT.	03° 29' 04.58"	1,644.25'	155.57'	310.22'	309.76'	7.31'
N-9	NORWOOD ROAD	01° 07' 23.1" RT.	01° 08' 45.30"	5,000.00'	49.01'	98.01'	98.01'	0.24'
N-10	NORWOOD ROAD	10° 42' 40.0" RT.	02° 20' 18.97"	2,450.00'	229.68'	458.01'	457.35'	10.74'
N-11	NORWOOD ROAD	16° 06' 15.0" LT.	03° 25' 11.00"	1,675.45'	237.02'	470.92'	469.37'	16.68'

BASELINE CONSTRUCTION NORWOOD ROAD					
ELEMENT	POINT NO.	STATION	NORTHING	EASTING	BEARING
N-8	P.C.	142+28.84	526,135.0340	1,308,193.1520	S 64° 10' 59.0" E
	P.I.	143+84.42	526,067.2825	1,308,333.1970	
	P.T.	145+39.07	525,974.4674	1,308,458.0498	S 53° 22' 22.9" E
N-9	P.C.	149+87.60	525,706.8736	1,308,818.0113	
	P.I.	150+36.60	525,677.6367	1,308,857.3401	
	P.T.	150+85.60	525,647.6345	1,308,896.0884	S 52° 14' 59.8" E
N-10	P.C.	151+56.86	525,604.0109	1,308,952.4290	
	P.I.	153+86.53	525,463.3993	1,309,134.0310	
	P.T.	156+14.87	525,291.4857	1,309,286.3352	S 41° 32' 19.9" E
N-11	P.C.	158+46.75	525,117.9260	1,309,440.0978	
	P.I.	160+83.77	524,940.5131	1,309,597.2741	
	P.T.	163+17.67	524,813.6603	1,309,797.4943	S 57° 38' 34.9" E
POINT	P.O.T.	164+77.94	524,727.8832	1,309,932.8819	



**LIMIT OF WORK**  
**PROJECT NO. XXXX**  
**NORWOOD ROAD**  
**STA. 164+05**

TRAVERSE POINTS				
POINT NO.	NORTHING	EASTING	ELEVATION	DESCRIPTION
TRAV. PT WM9	525,608.1305	1,310,293.4452	498.697	REBAR & CAP
TRAV. PT WM10	525,285.0526	1,310,750.6148	490.928	REBAR & CAP
TRAV. PT WM11	524,907.8612	1,311,211.1265	498.201	REBAR & CAP
TRAV. PT WM12	524,505.7465	1,311,511.9770	502.628	REBAR & CAP
TRAV. PT WM13	524,310.6713	1,311,880.0090	509.895	REBAR & CAP
TRAV. PT WM14	524,702.8274	1,312,330.8459	517.799	REBAR & CAP
TRAV. PT WM15	525,113.5836	1,312,862.1959	527.104	REBAR & CAP
TRAV. PT WM16	525,745.1620	1,313,440.7888	524.833	REBAR & CAP
TRAV. PT WM17	526,482.4508	1,313,779.8841	520.945	REBAR & CAP
TRAV. PT WM61	525,335.3534	1,310,585.9932	491.457	HUB & MAG NAIL
TRAV. PT WM63	525,528.4937	1,310,307.6925	500.037	MAG NAIL

• TRAVERSE POINT NOT SHOWN ON PLAN, OUTSIDE OF PLAN LIMIT

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STATE OF MARYLAND  
 PROFESSIONAL ENGINEER  
 No. 39917

**30% SUBMITTAL**

DATUM: NAD 83/91 HORIZONTAL  
 NAVD 88 VERTICAL

NO.	REVISION	DATE	BY

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

RECOMMENDED FOR APPROVAL

Chief, Design Section DATE  
 APPROVED

Chief, Division of Engineering Services DATE

DESIGNED BY: L.C.M. DRAWN BY: L.C.M. CHECKED BY: S.H.D.

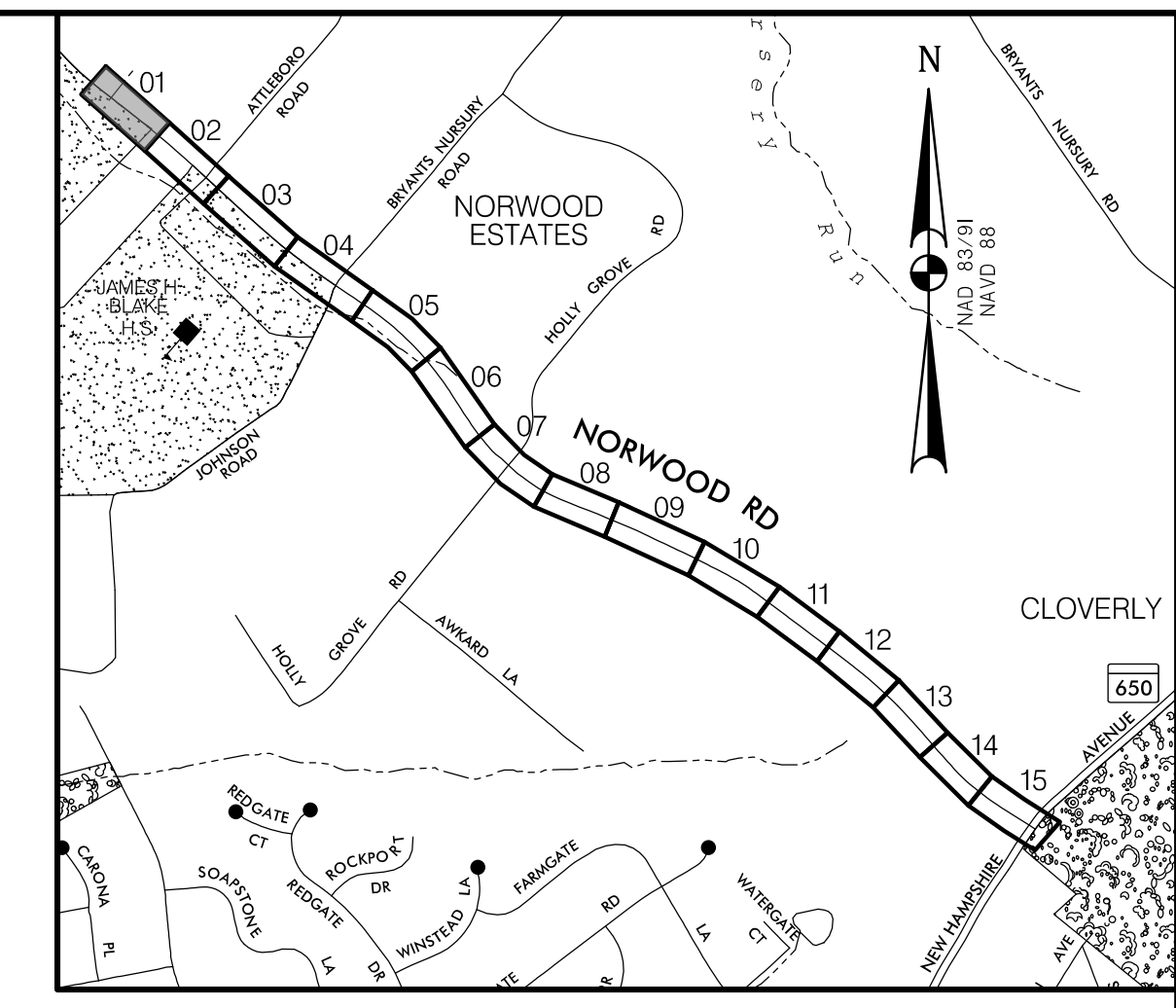


**PLAN SHEET GS-02**  
**GEOMETRIC LAYOUT**  
**NORWOOD ROAD**  
**SHARED USE PATH**  
**STA. 140+00 TO STA. 164+77.94**

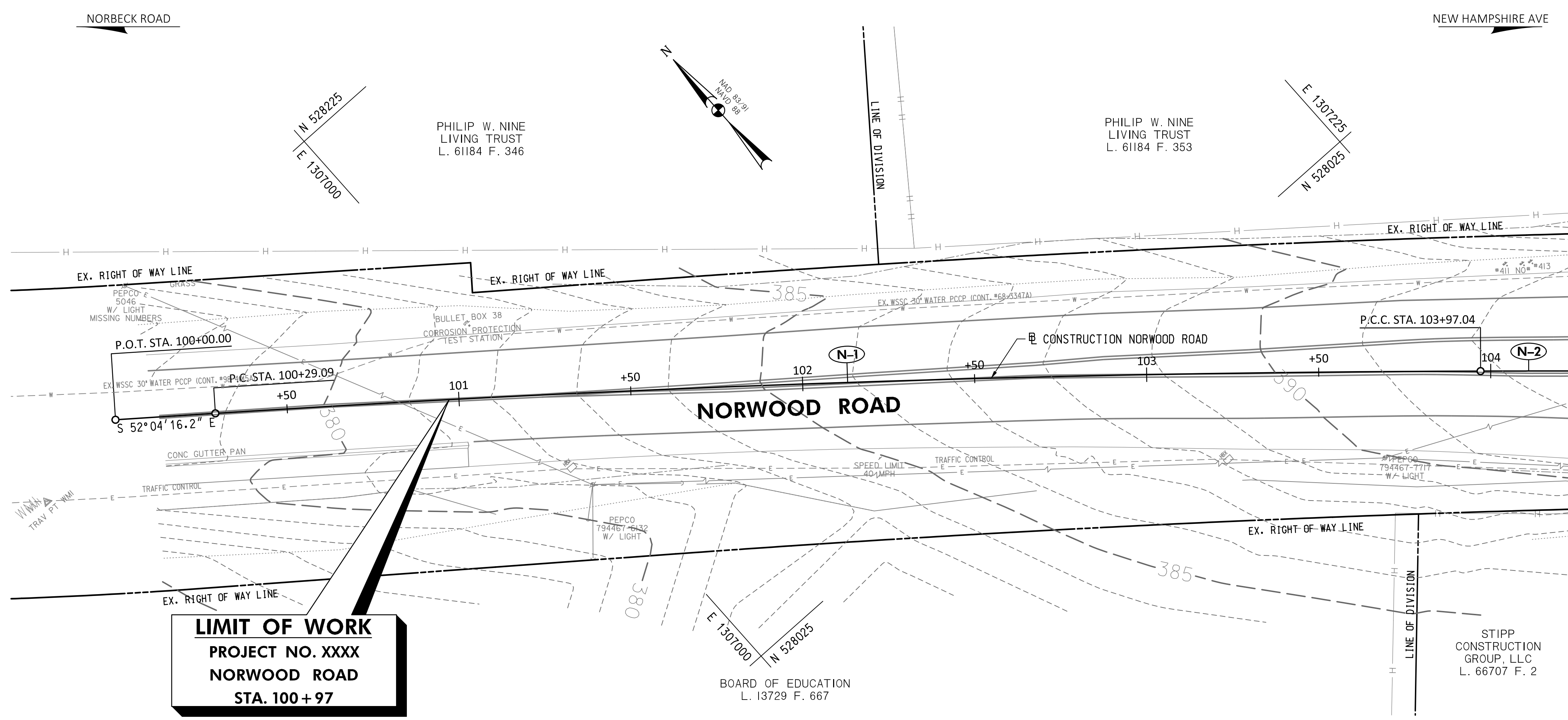
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PROJECT NO.: C.I.P. # PENDING SHEET NO. XX OF 133





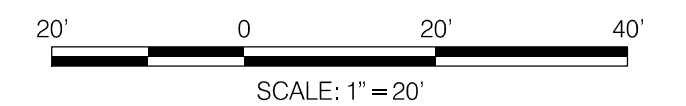
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SCALE 1"=1000'



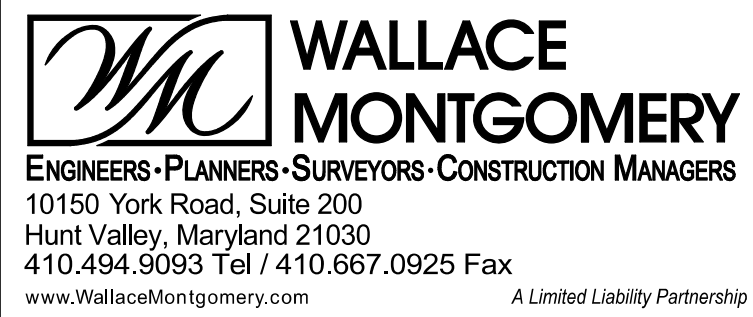
**LIMIT OF WORK**  
PROJECT NO. XXXX  
NORWOOD ROAD  
STA. 100+97

MATCHLINE STA. 104+25. SEE SHEET EX-02

**30% SUBMITTAL**



DATUM: NAD 83/91 HORIZONTAL  
NAVD 88 VERTICAL



- EXISTING CONDITIONS LEGEND**
- TOPOGRAPHIC SURVEY WAS COMPLETED BY WALLACE MONTGOMERY IN MARCH 2023. WITH SUPPLEMENTAL SURVEYS COMPLETED BY WALLACE MONTGOMERY IN JULY 2023.
  - EXISTING UTILITIES WERE LOCATED BY MISS UTILITY IN (MONTH YEAR) AND MARKINGS WERE SURVEYED BY CV IN AUGUST 2023.
  - SEE ABBREVIATIONS AND GENERAL NOTES SHEET FOR LEGEND OF EXISTING FEATURES.

**PROFESSIONAL CERTIFICATION**

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SEAL: STATE OF MARYLAND, SETH H. DARLINGTON, No. 39917, PROFESSIONAL ENGINEER

NO.	REVISION	DATE	BY

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GAITHERSBURG, MD 20878

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Chief, Design Section \_\_\_\_\_ DATE \_\_\_\_\_  
APPROVED

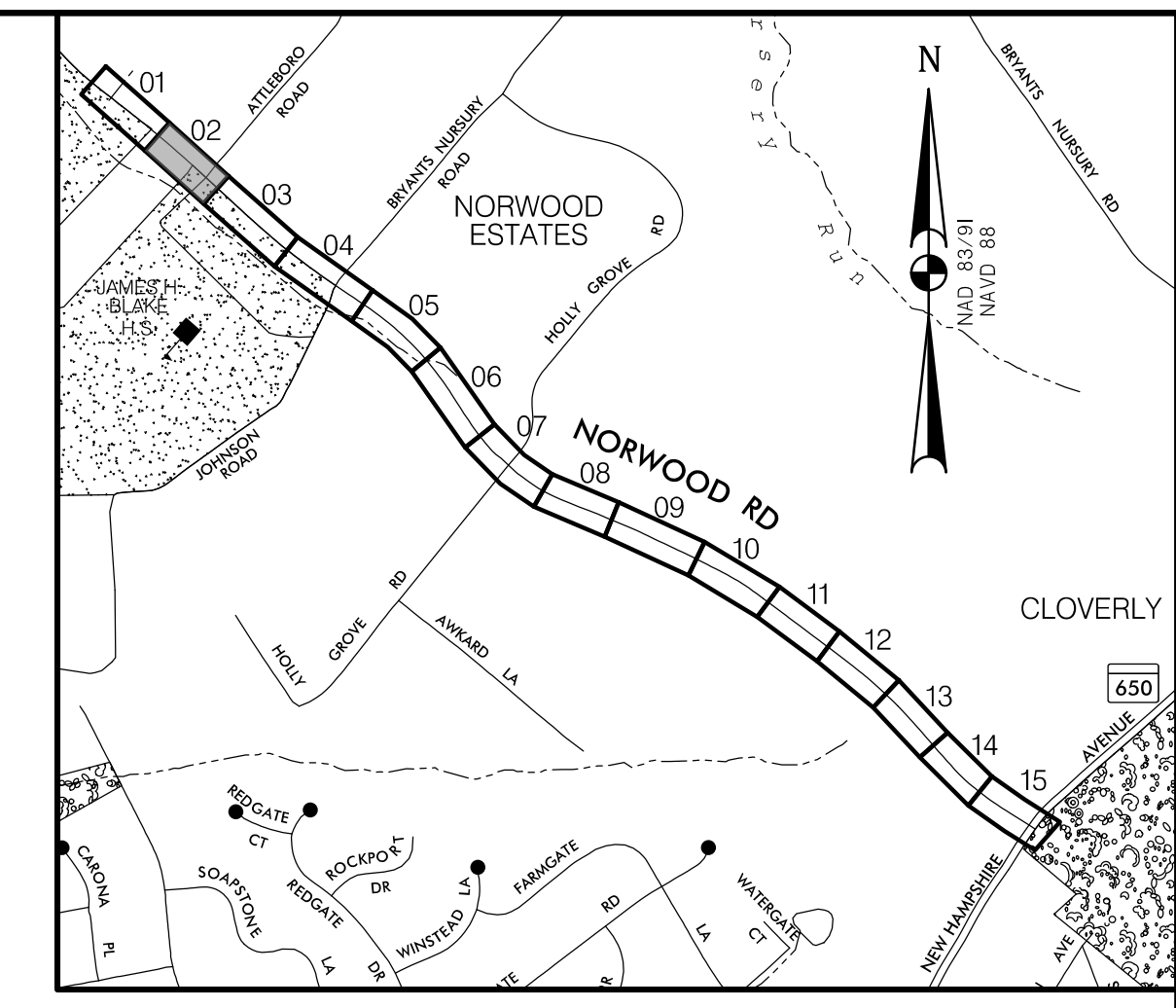
Chief, Division of Engineering Services \_\_\_\_\_ DATE \_\_\_\_\_

DESIGNED BY: N.D.K. DRAWN BY: N.D.K. CHECKED BY: S.H.D.

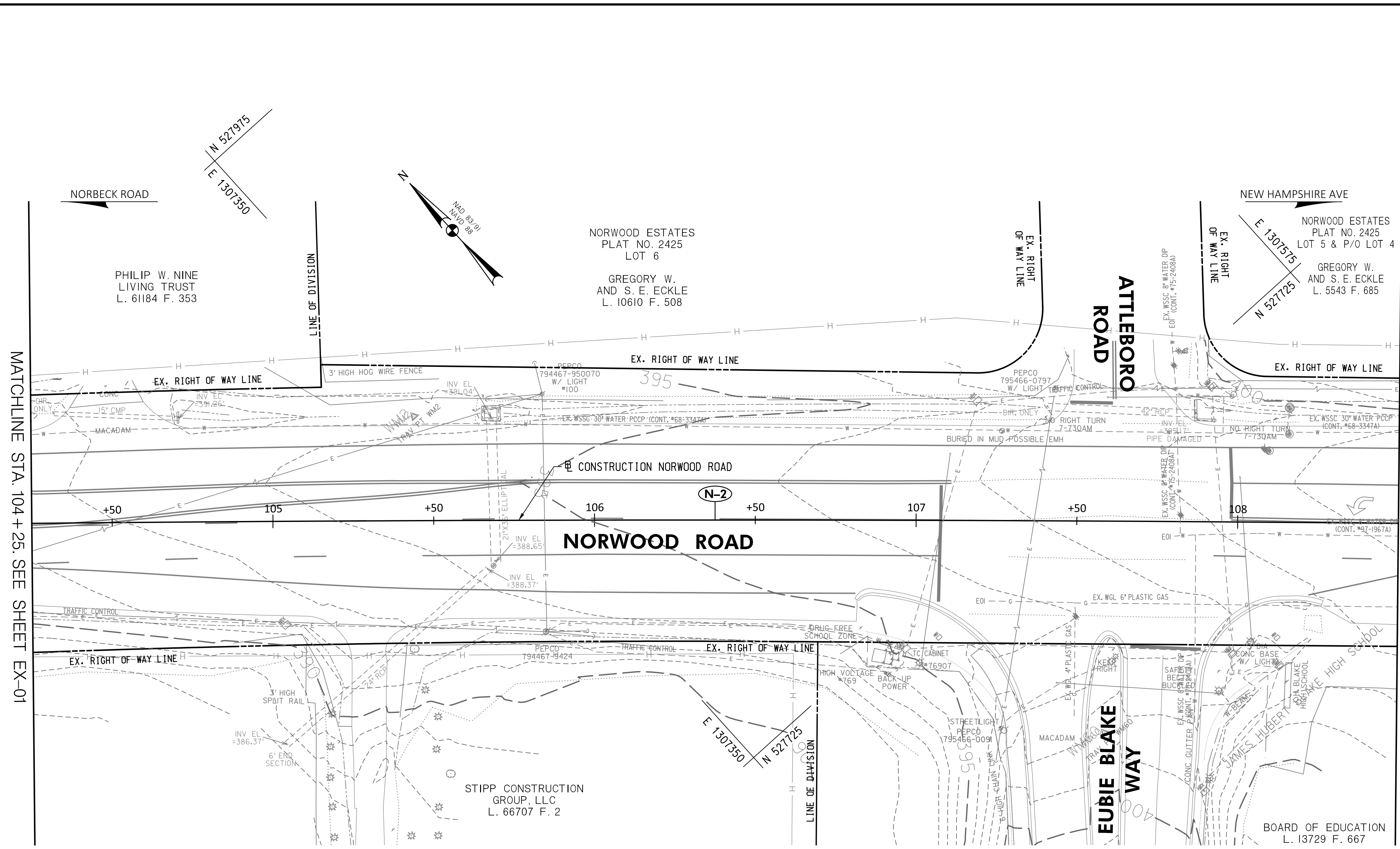
**PLAN SHEET EX-01**  
**EXISTING CONDITIONS PLAN**  
**NORWOOD ROAD**  
**SHARED USE PATH**  
**STA. 100+00 TO STA. 104+25**

SCALE: 1"=20' DATE: JAN, 2024

PROJECT NO.: C.I.P. # PENDING SHEET NO. 09 OF 133



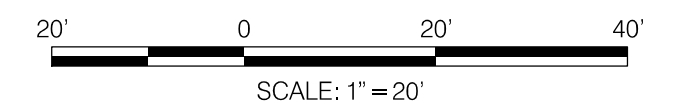
**LOCATION MAP**  
SCALE 1"=1000'



MATCHLINE STA. 104 + 25. SEE SHEET EX-01

MATCHLINE STA. 108 + 50. SEE SHEET EX-03

**30% SUBMITTAL**



DATUM: NAD 83/91 HORIZONTAL  
NAVD 88 VERTICAL

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- SEE ABBREVIATIONS AND GENERAL NOTES SHEET FOR LEGEND OF EXISTING FEATURES.

PROFESSIONAL CERTIFICATION

I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND. SETH H. DARLINGTON

LICENSE NO.: 39917  
EXP. DATE: 01/18/2025

SEAL  
STATE OF MARYLAND  
PROFESSIONAL ENGINEER  
No. 39917  
DATE:

NO.	REVISION	DATE	BY

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

RECOMMENDED FOR APPROVAL

Chief, Design Section \_\_\_\_\_ DATE \_\_\_\_\_  
APPROVED

Chief, Division of Engineering Services \_\_\_\_\_ DATE \_\_\_\_\_

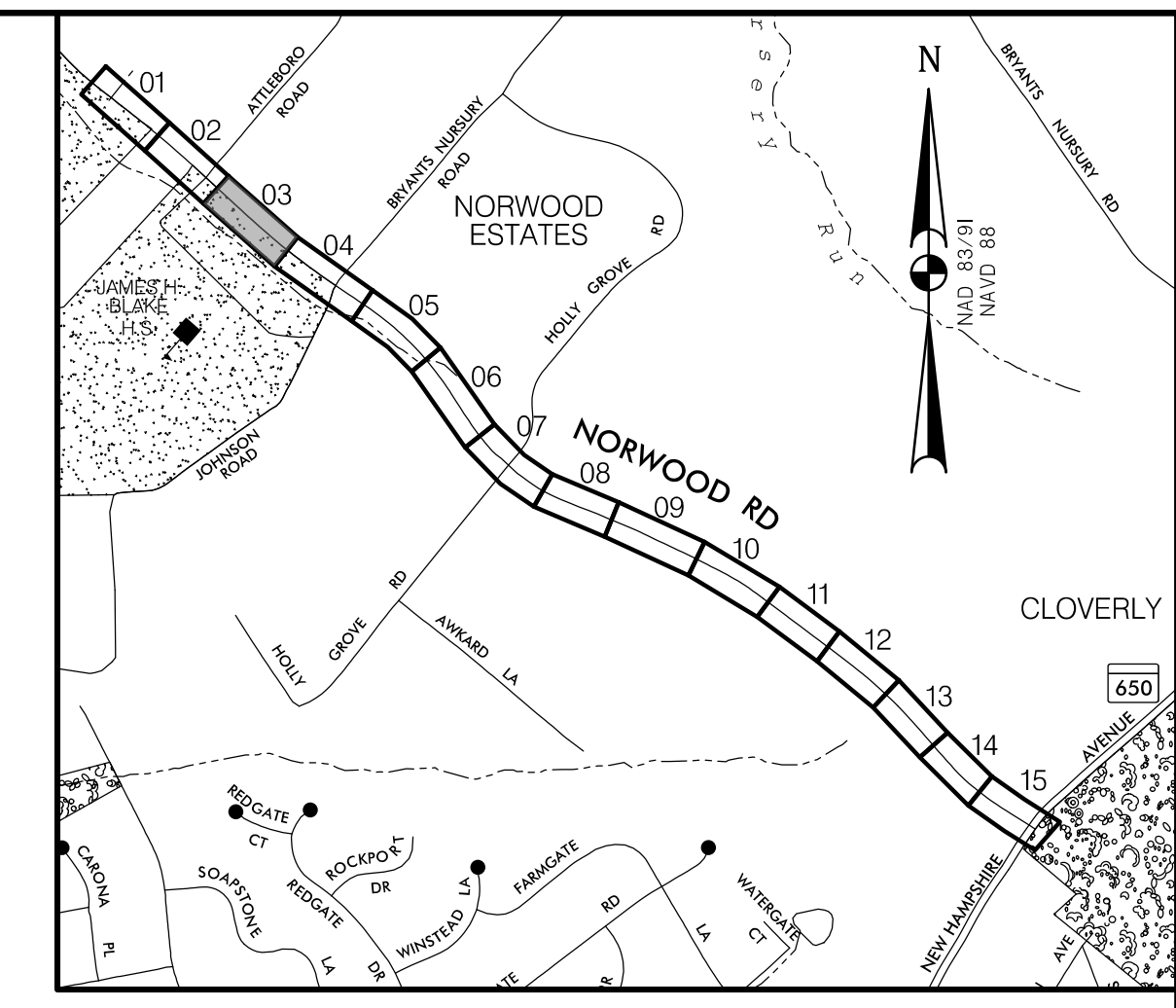
DESIGNED BY: N.D.K. DRAWN BY: N.D.K. CHECKED BY: S.H.D.

**PLAN SHEET EX-02**  
**EXISTING CONDITIONS PLAN**  
**NORWOOD ROAD**  
**SHARED USE PATH**  
**STA. 104+25 TO STA. 108+50**

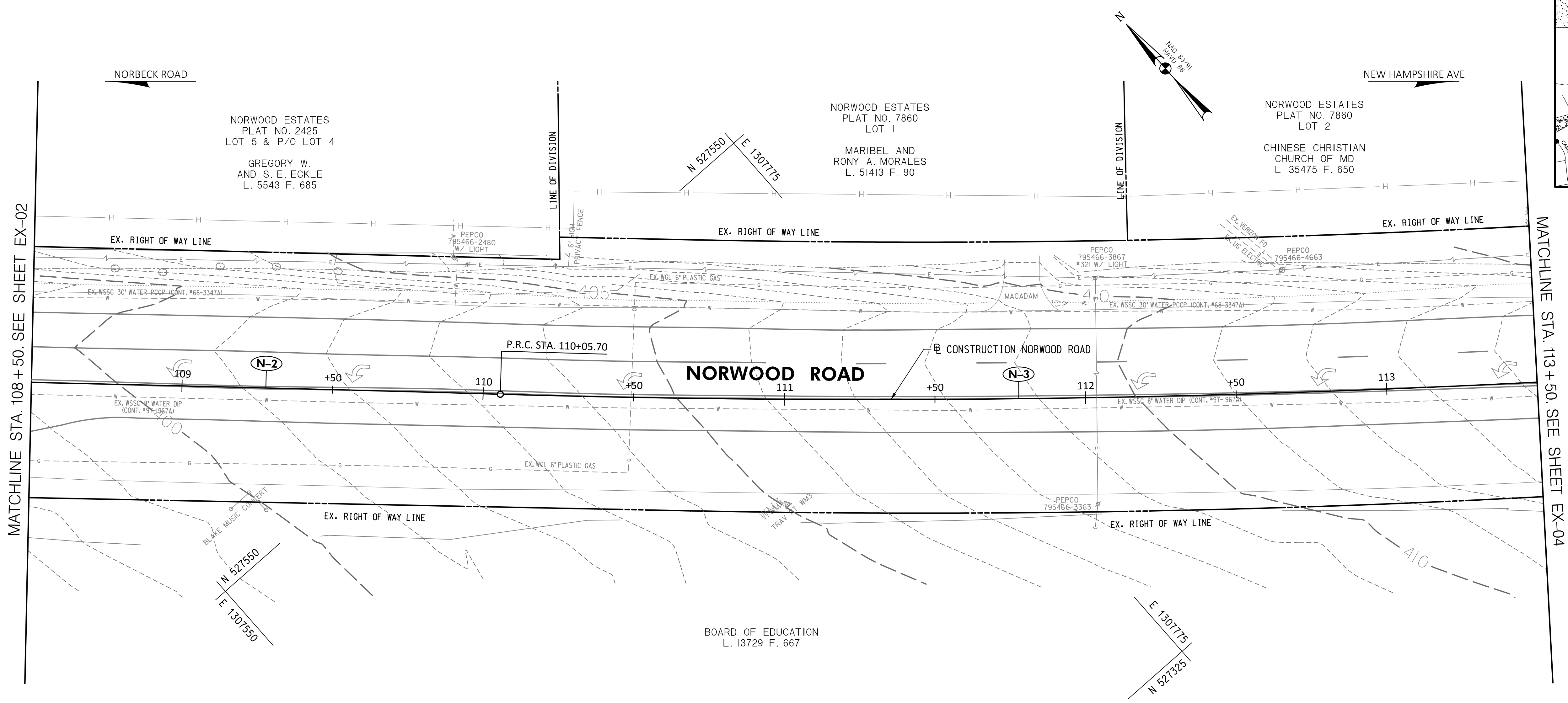
SCALE: 1"=20' DATE: JAN, 2024

PROJECT NO.: C.I.P. # PENDING SHEET NO. 10 OF 133

BY: nkern



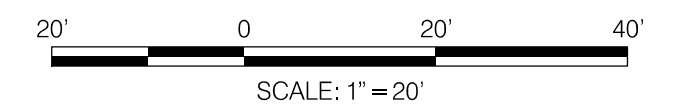
**LOCATION MAP**  
SCALE 1"=1000'



MATCHLINE STA. 108+50. SEE SHEET EX-02

MATCHLINE STA. 113+50. SEE SHEET EX-04

**30% SUBMITTAL**



DATUM: NAD 83/91 HORIZONTAL  
NAVD 88 VERTICAL

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10150 York Road, Suite 200  
Hunt Valley, Maryland 21030  
410.494.9093 Tel / 410.667.0925 Fax  
www.WallaceMontgomery.com

**EXISTING CONDITIONS LEGEND**

1. TOPOGRAPHIC SURVEY WAS COMPLETED BY WALLACE MONTGOMERY IN MARCH 2023. WITH SUPPLEMENTAL SURVEYS COMPLETED BY WALLACE MONTGOMERY IN JULY 2023.
2. EXISTING UTILITIES WERE LOCATED BY MISS UTILITY IN (MONTH YEAR) AND MARKINGS WERE SURVEYED BY CV IN AUGUST 2023.
3. SEE ABBREVIATIONS AND GENERAL NOTES SHEET FOR LEGEND OF EXISTING FEATURES.

<p><b>PROFESSIONAL CERTIFICATION</b></p> <p>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. SETH H. DARLINGTON</p> <p>LICENSE NO.: 39917 EXP. DATE: 01/18/2025</p>	<p><b>SEAL</b></p> <p>DATE: _____</p>
--	---------------------------------------

NO.	REVISION	DATE	BY

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

**RECOMMENDED FOR APPROVAL**

Chief, Design Section \_\_\_\_\_ DATE \_\_\_\_\_  
APPROVED

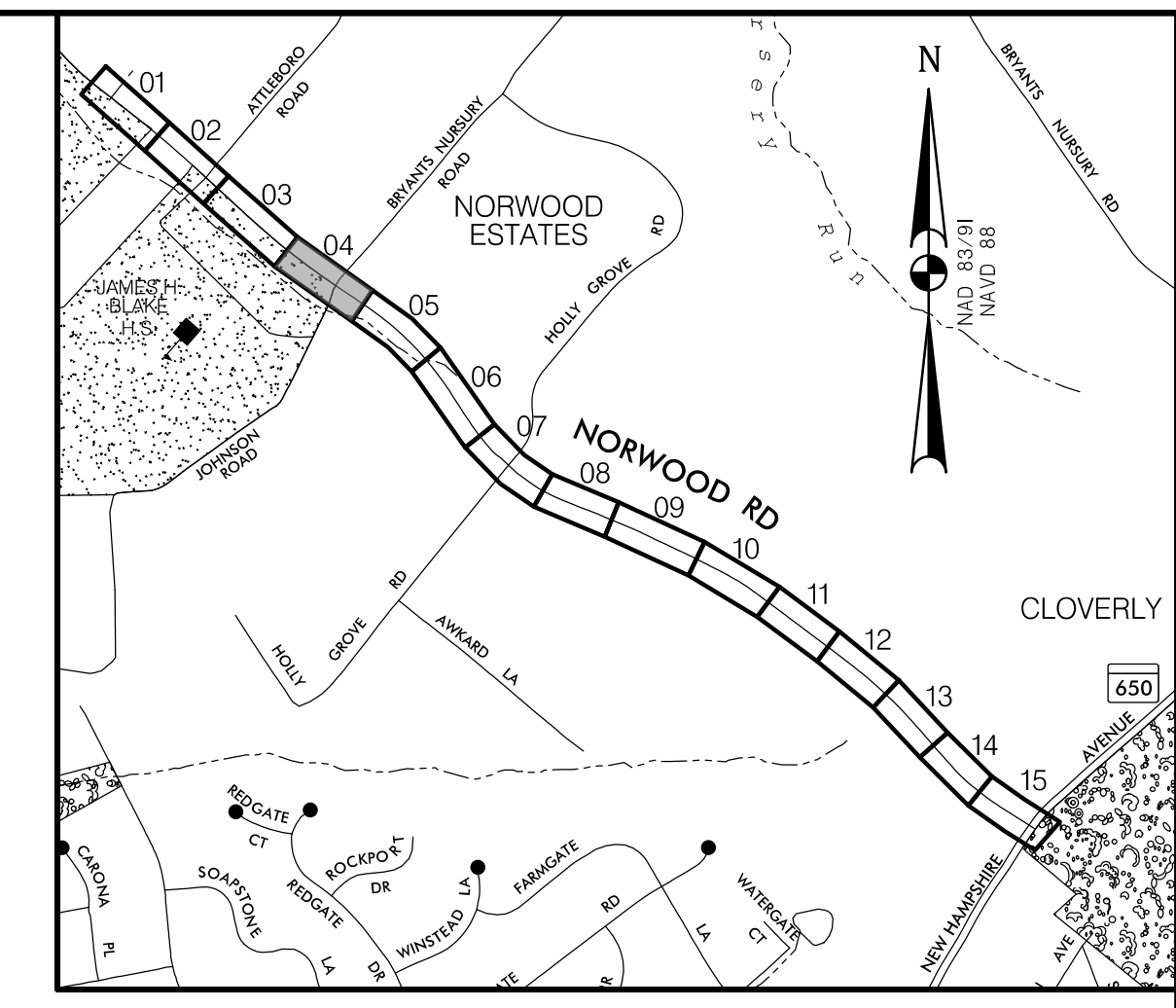
Chief, Division of Engineering Services \_\_\_\_\_ DATE \_\_\_\_\_

DESIGNED BY: N.D.K. DRAWN BY: N.D.K. CHECKED BY: S.H.D.

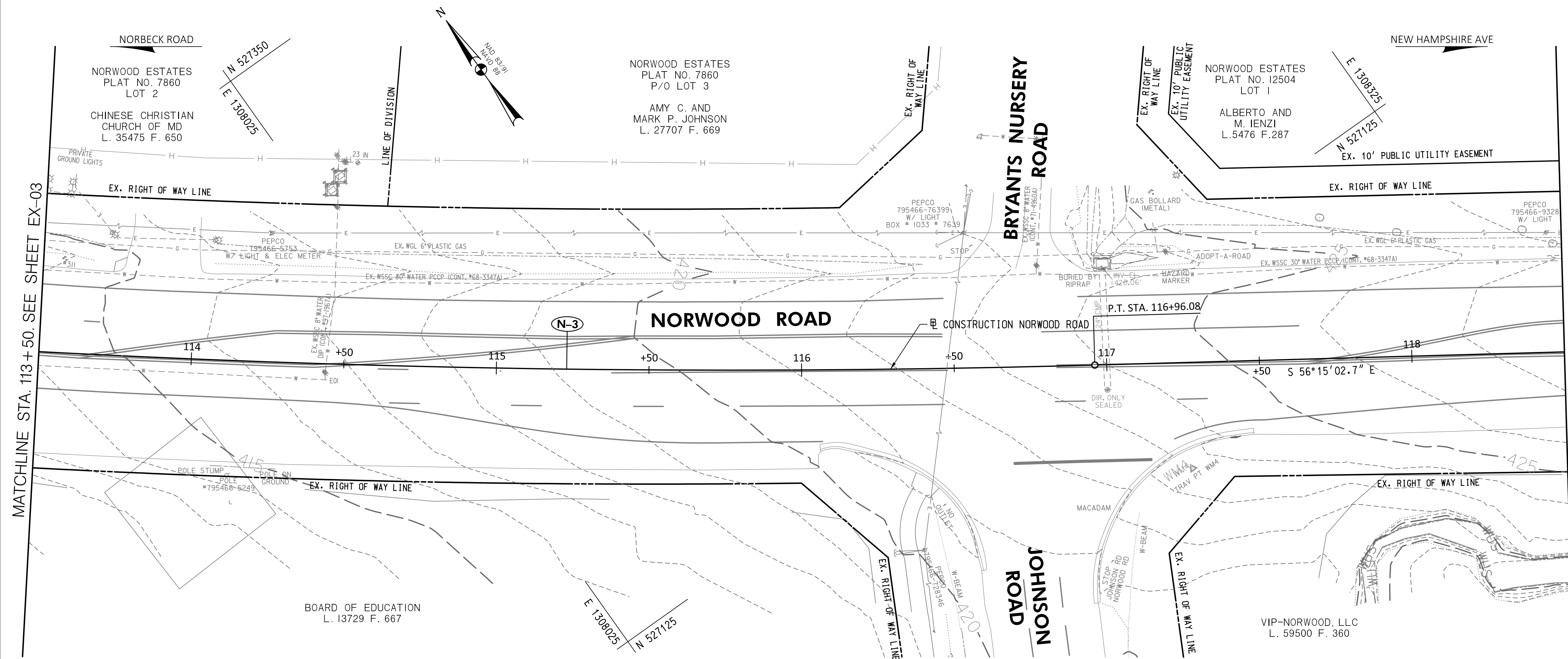
**PLAN SHEET EX-03**  
**EXISTING CONDITIONS PLAN**  
**NORWOOD ROAD**  
**SHARED USE PATH**  
**STA. 108+50 TO STA. 113+50**

SCALE: 1"=20'      DATE: JAN, 2024

PROJECT NO.: C.I.P. # PENDING      SHEET NO. 11 OF 133



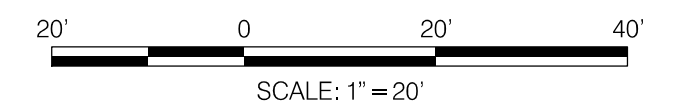
**LOCATION MAP**  
SCALE 1"=1000'



MATCHLINE STA. 113+50. SEE SHEET EX-03

MATCHLINE STA. 118+50. SEE SHEET EX-05

**30% SUBMITTAL**



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410.494.9093 Tel / 410.667.0925 Fax  
www.WallaceMontgomery.com

**EXISTING CONDITIONS LEGEND**

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DATUM: NAD 83/91 HORIZONTAL  
NAVD 88 VERTICAL

PROFESSIONAL CERTIFICATION

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LICENSE NO.: 39917  
EXP. DATE: 01/18/2025

SEAL  
STATE OF MARYLAND  
SETH H. DARLINGTON  
No. 39917  
PROFESSIONAL ENGINEER  
DATE: \_\_\_\_\_

NO.	REVISION	DATE	BY

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

RECOMMENDED FOR APPROVAL

Chief, Design Section \_\_\_\_\_ DATE \_\_\_\_\_  
APPROVED

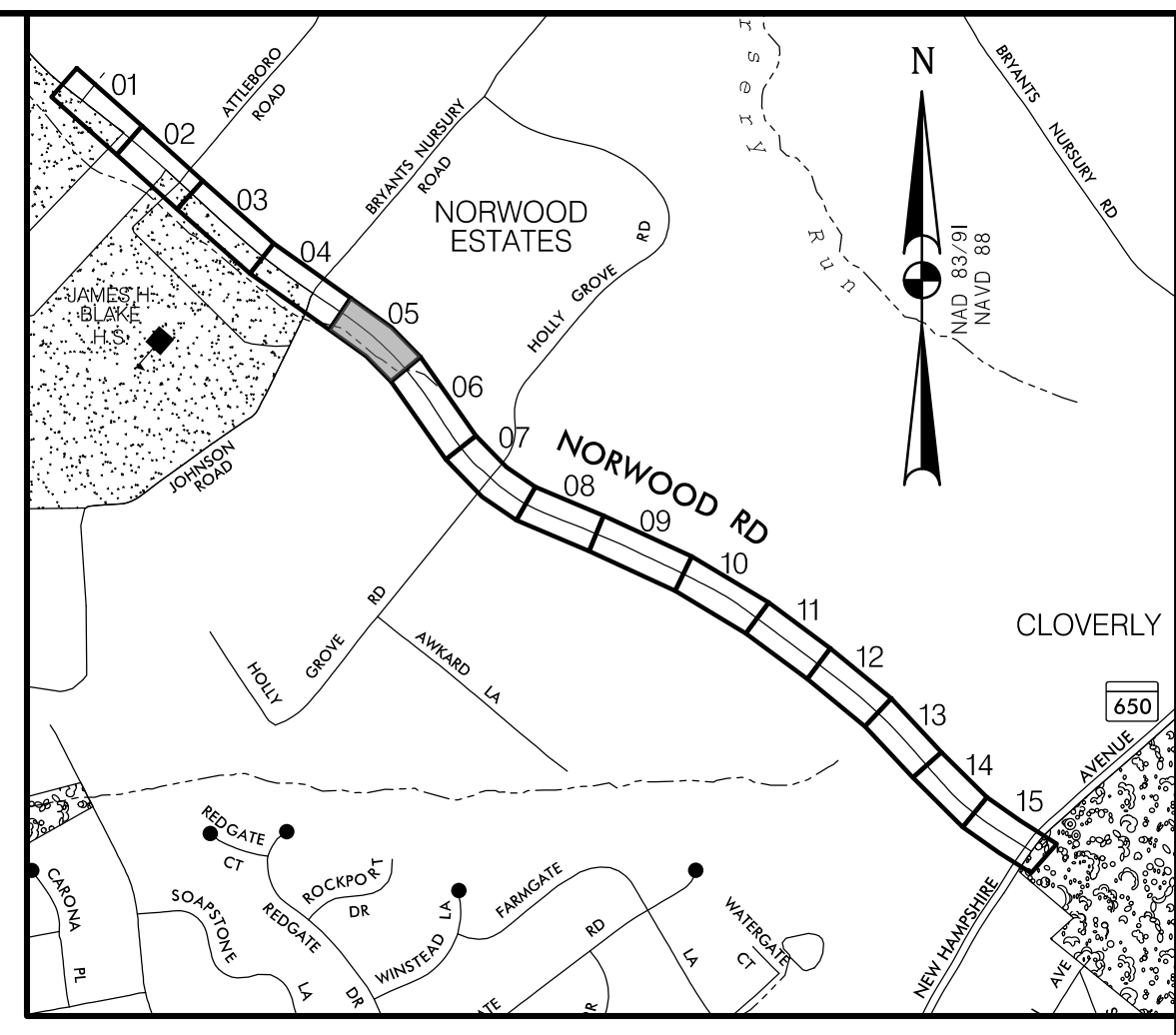
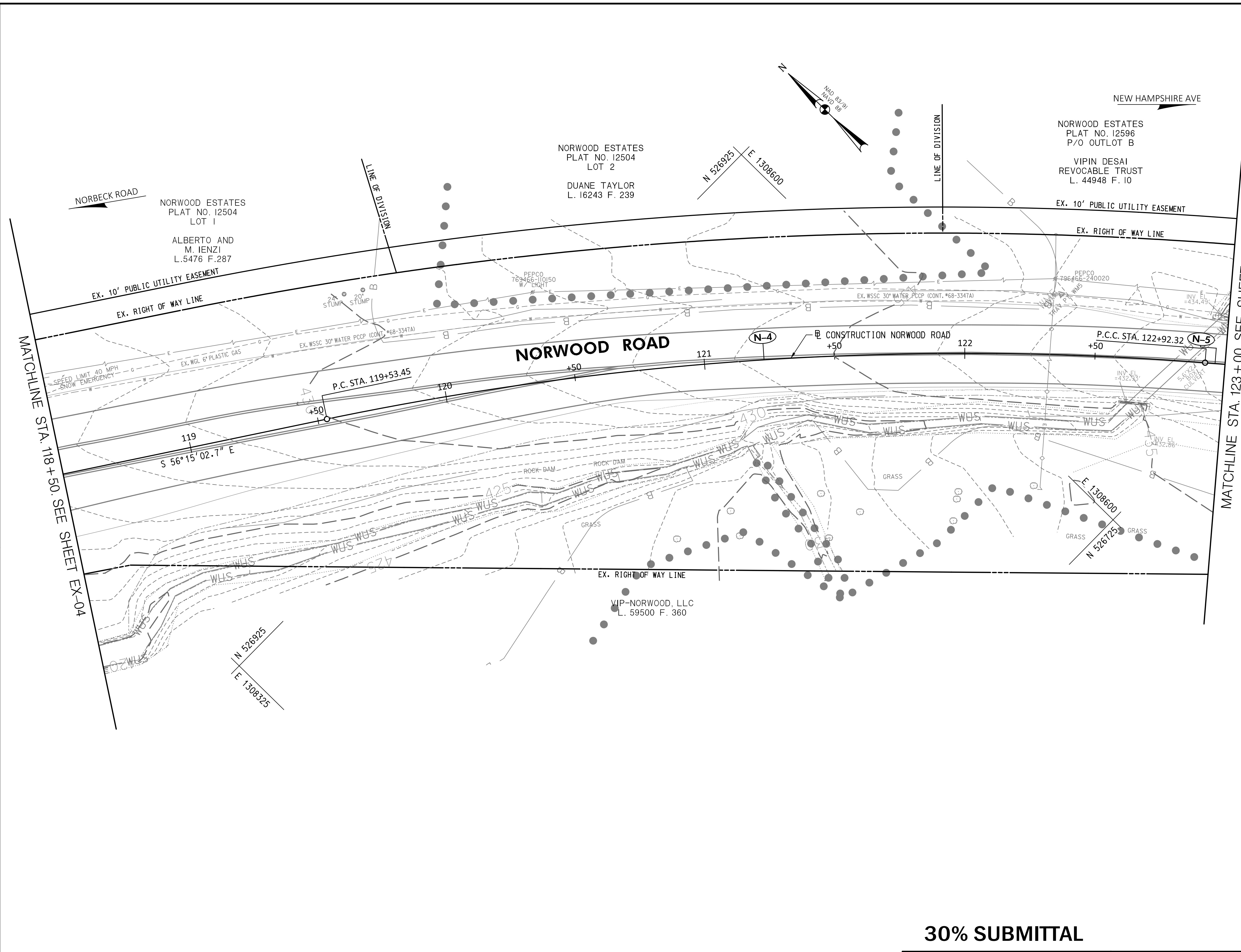
Chief, Division of Engineering Services \_\_\_\_\_ DATE \_\_\_\_\_

DESIGNED BY: N.D.K. DRAWN BY: N.D.K. CHECKED BY: S.H.D.

**PLAN SHEET EX-04**  
**EXISTING CONDITIONS PLAN**  
**NORWOOD ROAD**  
**SHARED USE PATH**  
**STA. 113+50 TO STA. 118+50**

SCALE: 1"=20' DATE: JAN, 2024

PROJECT NO.: C.I.P. # PENDING SHEET NO. 12 OF 133

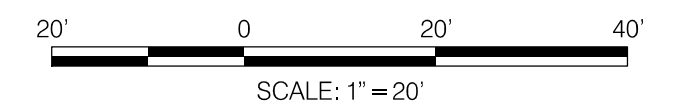


**LOCATION MAP**  
SCALE 1"=1000'

MATCHLINE STA. 118+50. SEE SHEET EX-04

MATCHLINE STA. 123+00. SEE SHEET EX-06

**30% SUBMITTAL**



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410.494.9093 Tel / 410.667.0925 Fax  
www.WallaceMontgomery.com

**EXISTING CONDITIONS LEGEND**

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DATUM: NAD 83/91 HORIZONTAL  
NAVD 88 VERTICAL

PROFESSIONAL CERTIFICATION

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LICENSE NO.: 39917  
EXP. DATE: 01/18/2025

SEAL  
STATE OF MARYLAND  
SETH H. DARLINGTON  
No. 39917  
PROFESSIONAL ENGINEER

NO.	REVISION	DATE	BY

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

RECOMMENDED FOR APPROVAL

Chief, Design Section \_\_\_\_\_ DATE \_\_\_\_\_  
APPROVED

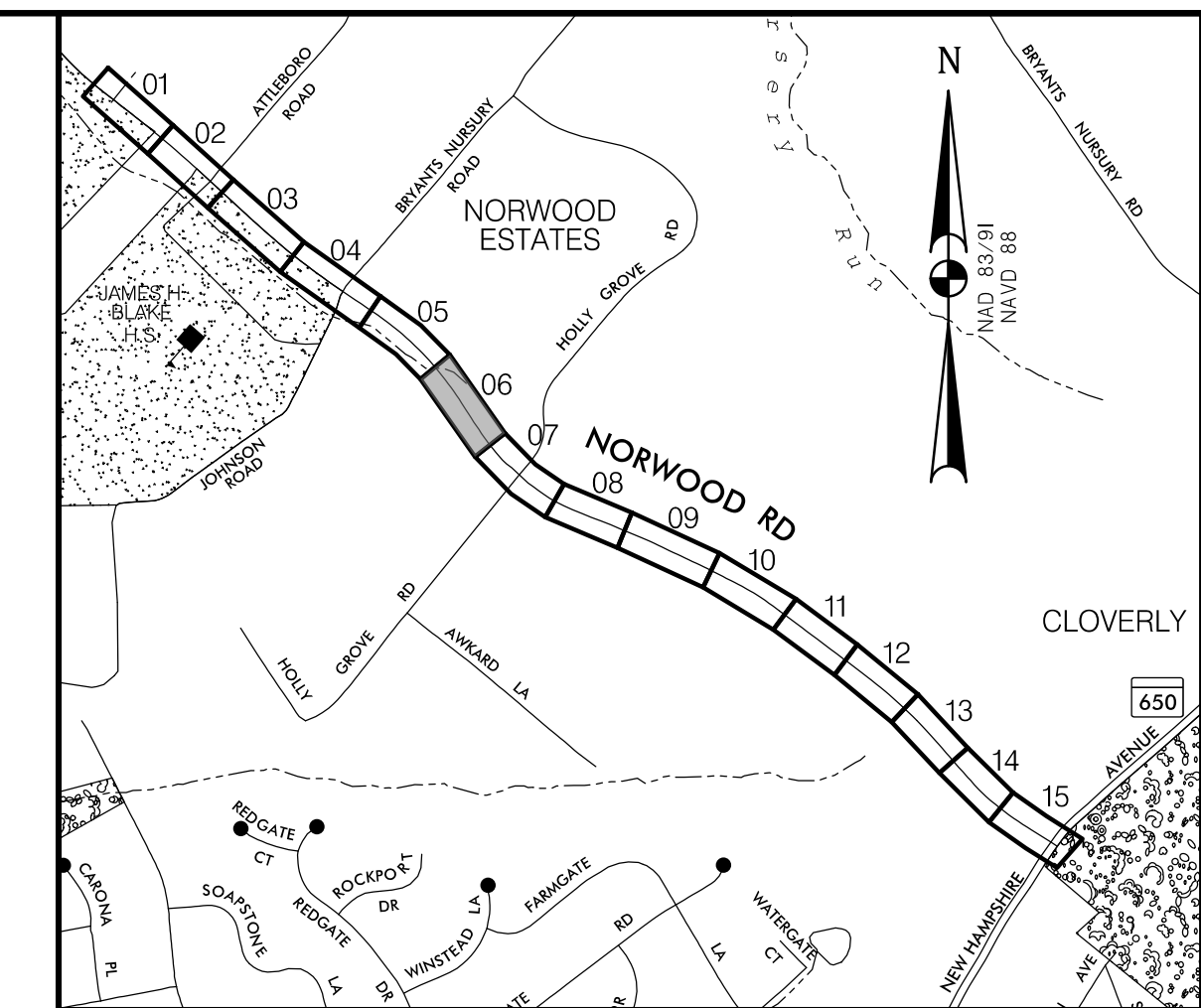
Chief, Division of Engineering Services \_\_\_\_\_ DATE \_\_\_\_\_

DESIGNED BY: N.D.K. DRAWN BY: N.D.K. CHECKED BY: S.H.D.

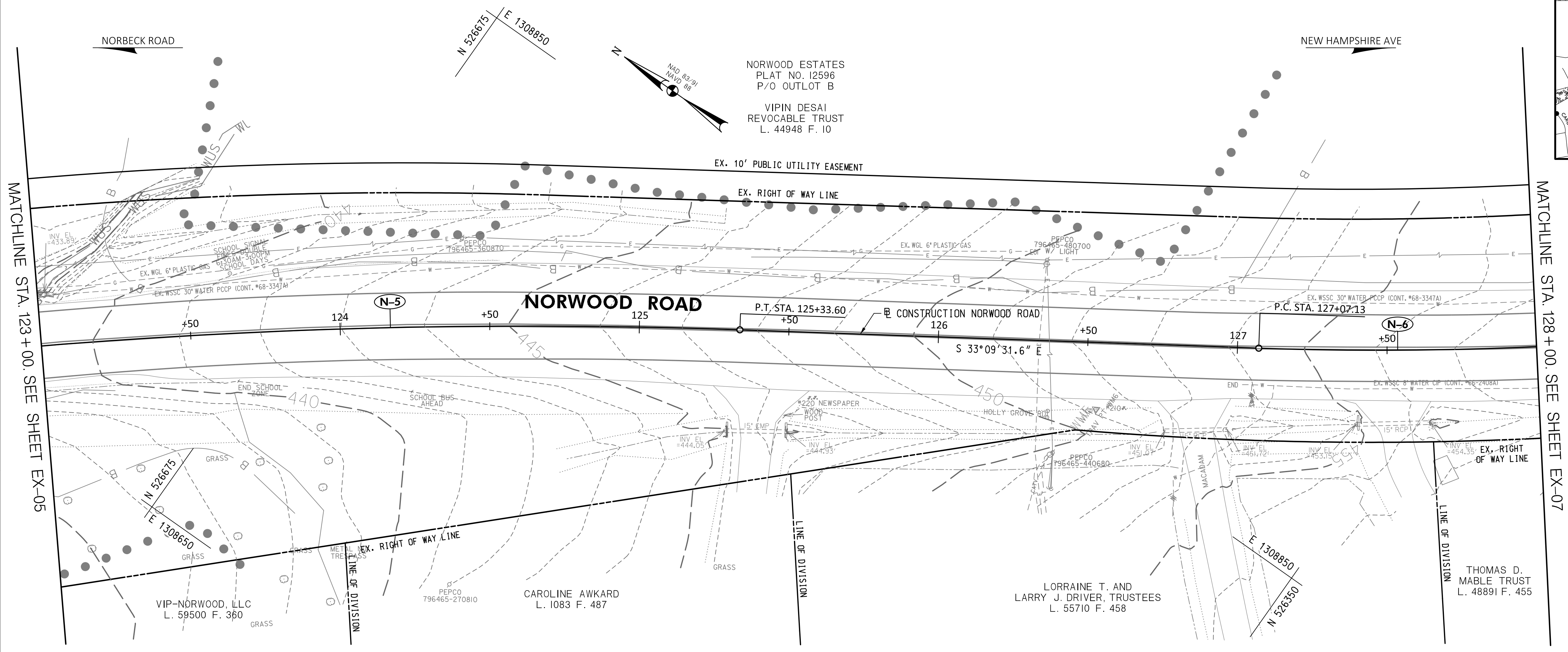
**PLAN SHEET EX-05**  
**EXISTING CONDITIONS PLAN**  
**NORWOOD ROAD**  
**SHARED USE PATH**  
**STA. 118+50 TO STA. 123+00**

SCALE: 1"=20' DATE: JAN, 2024

PROJECT NO.: C.I.P. # PENDING SHEET NO. 13 OF 133



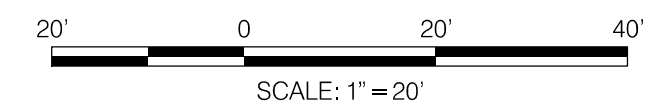
**LOCATION MAP**  
SCALE 1"=1000'



MATCHLINE STA. 123+00. SEE SHEET EX-05

MATCHLINE STA. 128+00. SEE SHEET EX-07

**30% SUBMITTAL**



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410.494.9093 Tel / 410.667.0925 Fax  
www.WallaceMontgomery.com

**EXISTING CONDITIONS LEGEND**

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- SEE ABBREVIATIONS AND GENERAL NOTES SHEET FOR LEGEND OF EXISTING FEATURES.

DATUM: NAD 83/91 HORIZONTAL  
NAVD 88 VERTICAL

**PROFESSIONAL CERTIFICATION**

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LICENSE NO.: 39917  
EXP. DATE: 01/18/2025

NO.	REVISION	DATE	BY

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

RECOMMENDED FOR APPROVAL

Chief, Design Section \_\_\_\_\_ DATE \_\_\_\_\_  
APPROVED

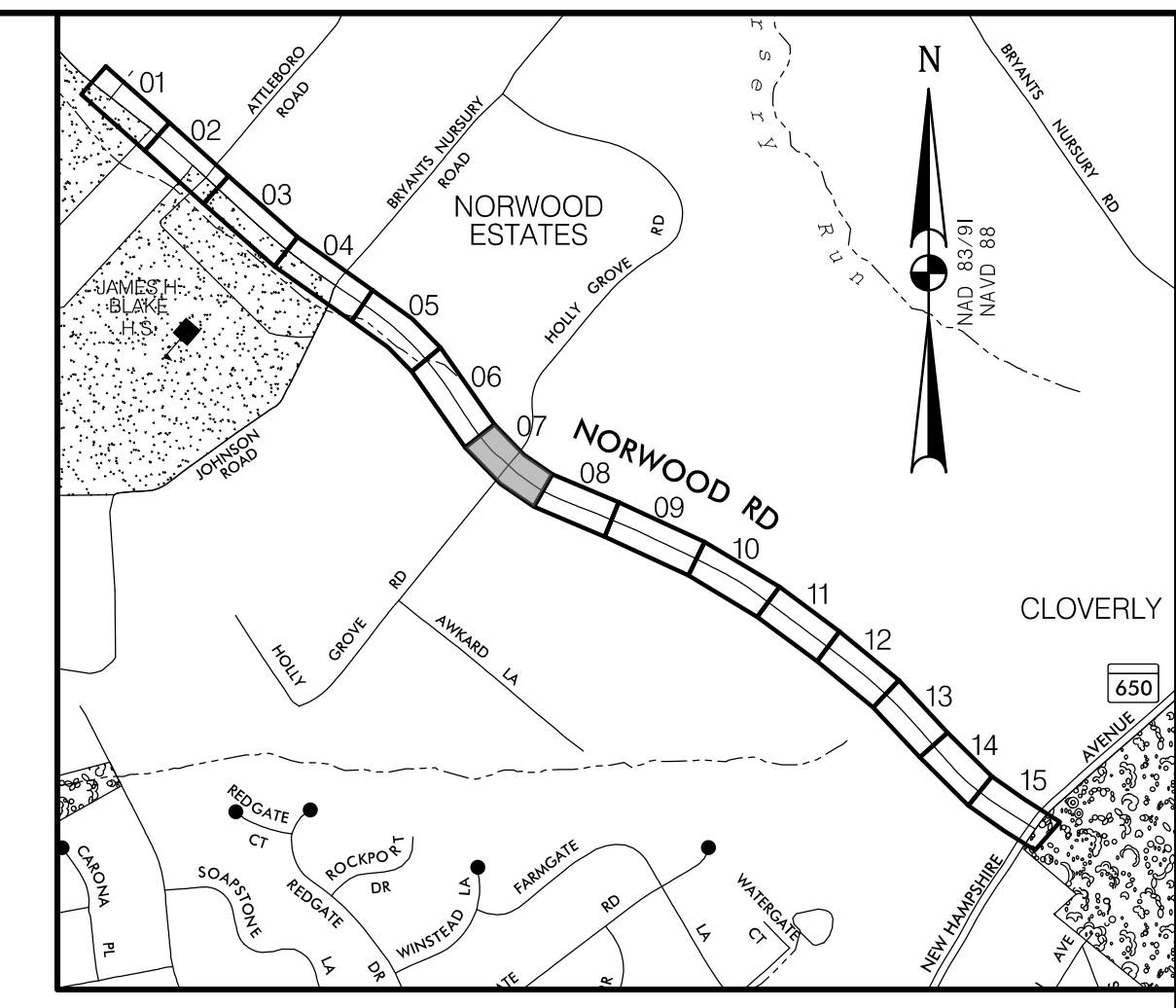
Chief, Division of Engineering Services \_\_\_\_\_ DATE \_\_\_\_\_

DESIGNED BY: N.D.K. DRAWN BY: N.D.K. CHECKED BY: S.H.D.

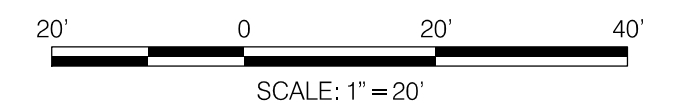
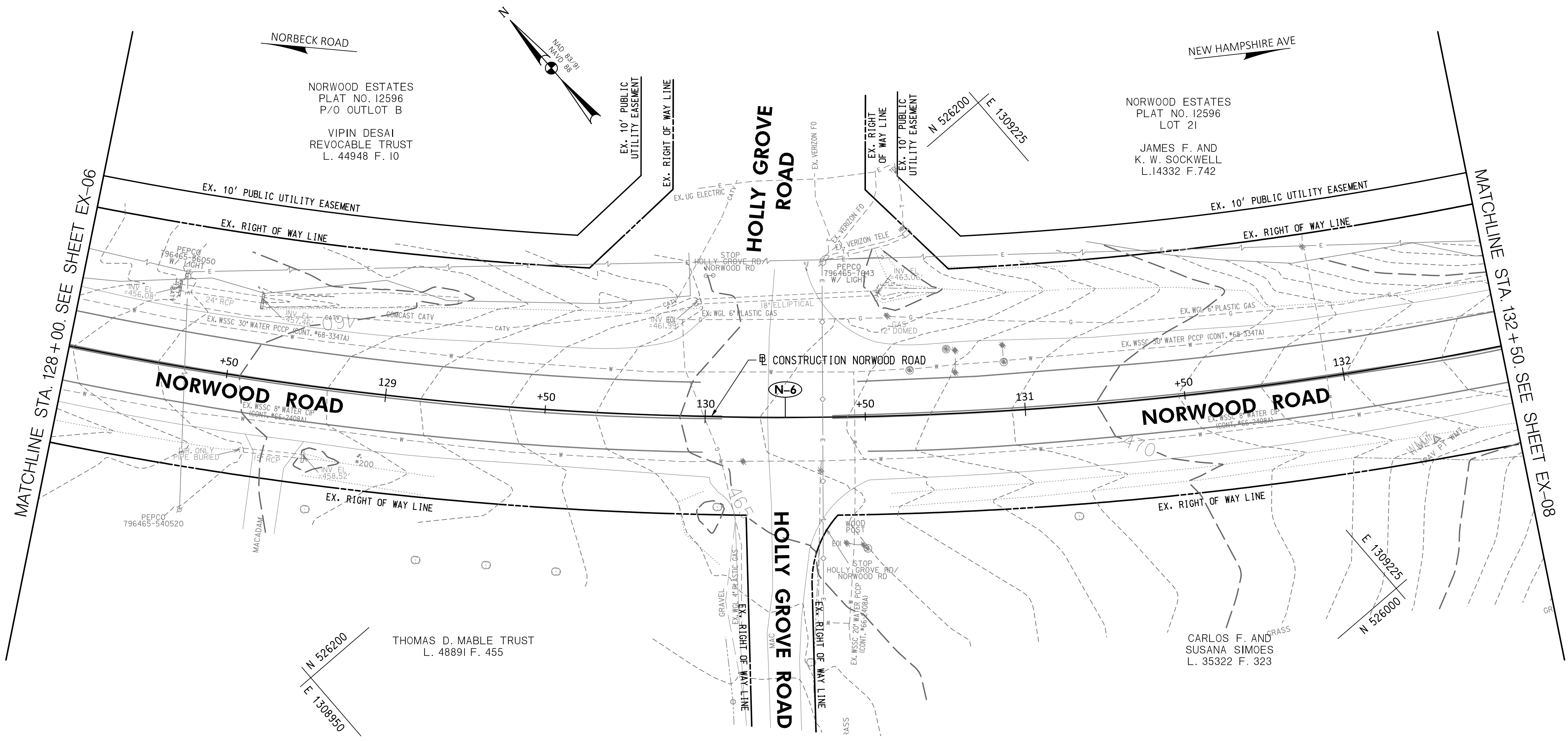
**PLAN SHEET EX-06**  
**EXISTING CONDITIONS PLAN**  
**NORWOOD ROAD**  
**SHARED USE PATH**  
**STA. 123+00 TO STA. 128+00**

SCALE: 1"=20' DATE: JAN, 2024

PROJECT NO.: C.I.P. # PENDING SHEET NO. 14 OF 133



**LOCATION MAP**  
SCALE 1"=1000'



**30% SUBMITTAL**

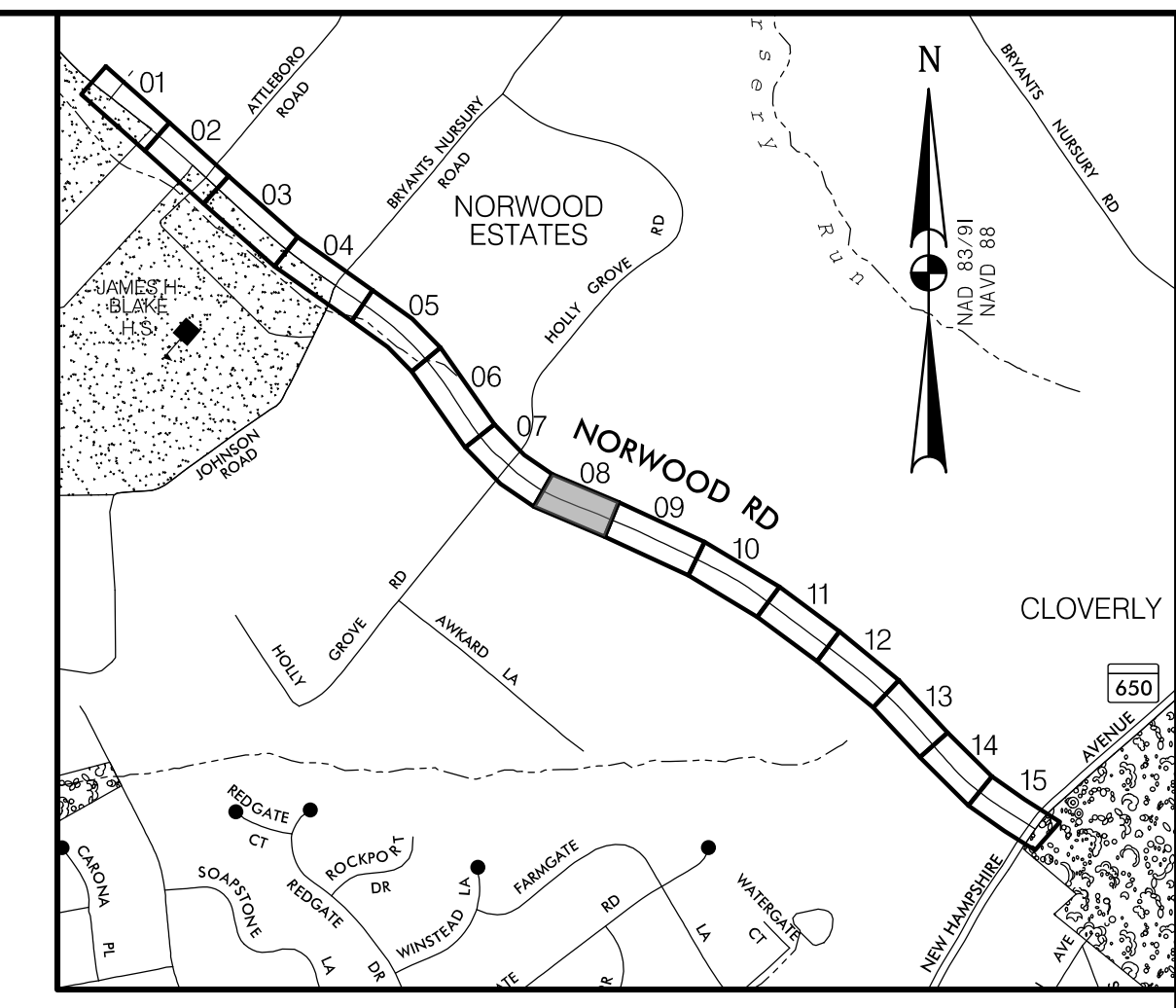
DATUM: NAD 83/91 HORIZONTAL  
NAVD 88 VERTICAL

<p>PROFESSIONAL CERTIFICATION</p> <p>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. SETH H. DARLINGTON</p> <p>LICENSE NO.: 39917</p> <p>EXP. DATE: 01/18/2025</p>	<p>SEAL</p> <p>DATE: _____</p>
--	--------------------------------

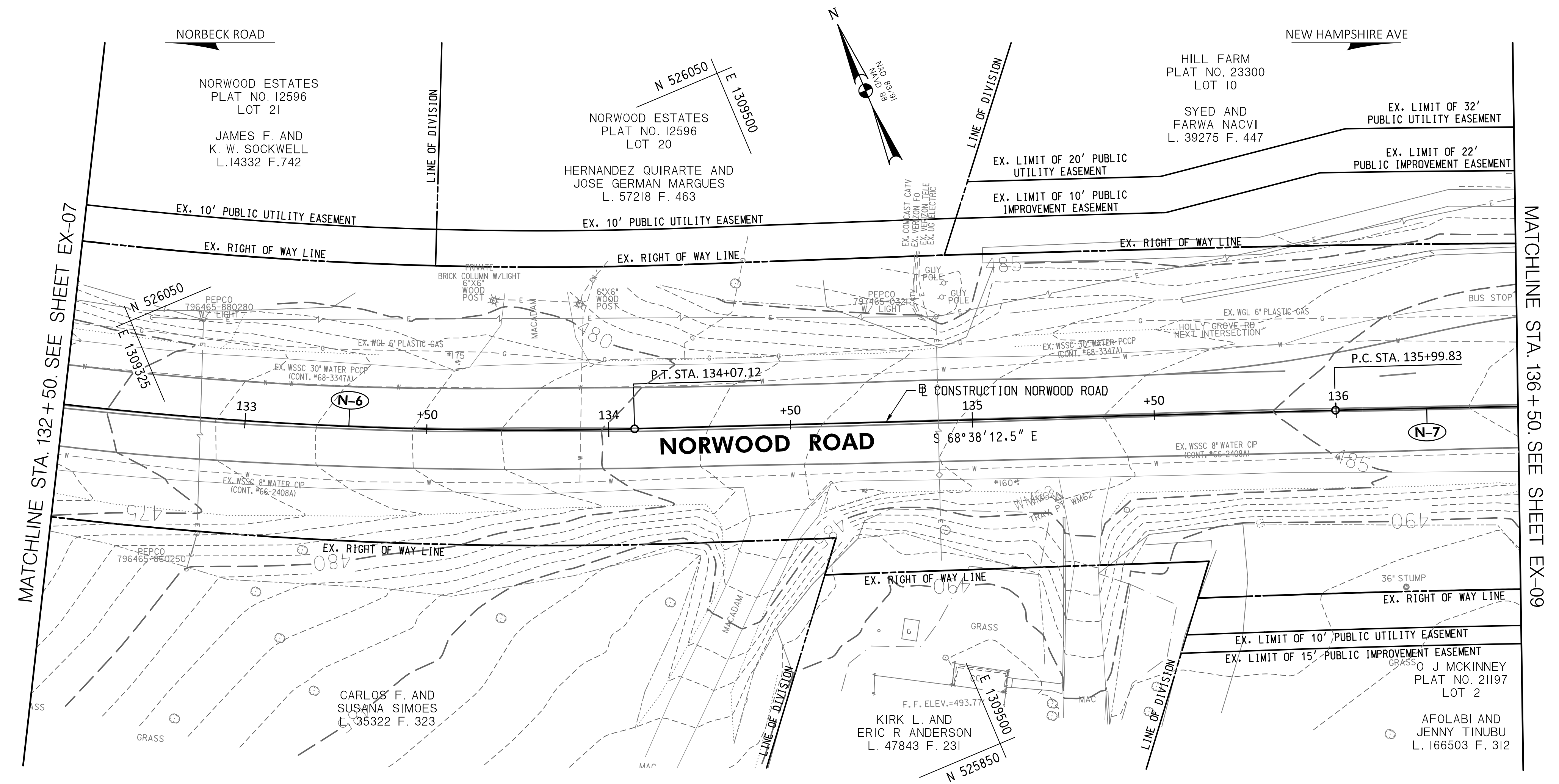
<p>MONTGOMERY COUNTY DEPARTMENT OF TRANSPORTATION 100 EDISON PARK DRIVE, 4TH FLOOR GAITHERSBURG, MD 20878</p>	<p>RECOMMENDED FOR APPROVAL</p> <p>Chief, Design Section _____ DATE _____</p> <p>APPROVED</p> <p>Chief, Division of Engineering Services _____ DATE _____</p> <p>DESIGNED BY: N.D.K. DRAWN BY: N.D.K. CHECKED BY: S.H.D.</p>
---	--

<p><b>PLAN SHEET EX-07</b> <b>EXISTING CONDITIONS PLAN</b> <b>NORWOOD ROAD</b> <b>SHARED USE PATH</b> <b>STA. 128+00 TO STA. 132+50</b></p>	
SCALE: 1"=20'	DATE: JAN, 2024
PROJECT NO.: C.I.P. # PENDING	SHEET NO. 15 OF 133

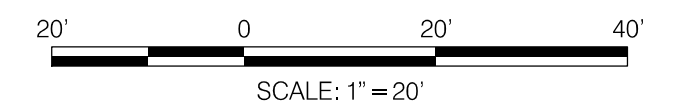
<p><b>WALLACE MONTGOMERY</b> ENGINEERS-PLANNERS-SURVEYORS-CONSTRUCTION MANAGERS 10150 York Road, Suite 200 Hunt Valley, Maryland 21030 410.494.9093 Tel / 410.667.0925 Fax www.WallaceMontgomery.com</p>	<p>EXISTING CONDITIONS LEGEND</p> <ol style="list-style-type: none"> <li>TOPOGRAPHIC SURVEY WAS COMPLETED BY WALLACE MONTGOMERY IN MARCH 2023. WITH SUPPLEMENTAL SURVEYS COMPLETED BY WALLACE MONTGOMERY IN JULY 2023.</li> <li>EXISTING UTILITIES WERE LOCATED BY MISS UTILITY IN (MONTH YEAR) AND MARKINGS WERE SURVEYED BY CV IN AUGUST 2023.</li> <li>SEE ABBREVIATIONS AND GENERAL NOTES SHEET FOR LEGEND OF EXISTING FEATURES.</li> </ol>
	<p>A Limited Liability Partnership</p>



**LOCATION MAP**  
SCALE 1"=1000'



**30% SUBMITTAL**



DATUM: NAD 83/91 HORIZONTAL  
NAVD 88 VERTICAL

**WALLACE MONTGOMERY**  
ENGINEERS-PLANNERS-SURVEYORS-CONSTRUCTION MANAGERS  
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Hunt Valley, Maryland 21030  
410.494.9093 Tel / 410.667.0925 Fax  
www.WallaceMontgomery.com

**EXISTING CONDITIONS LEGEND**

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--	--------------------------------

NO.	REVISION	DATE	BY

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

RECOMMENDED FOR APPROVAL

Chief, Design Section \_\_\_\_\_ DATE \_\_\_\_\_  
APPROVED

Chief, Division of Engineering Services \_\_\_\_\_ DATE \_\_\_\_\_

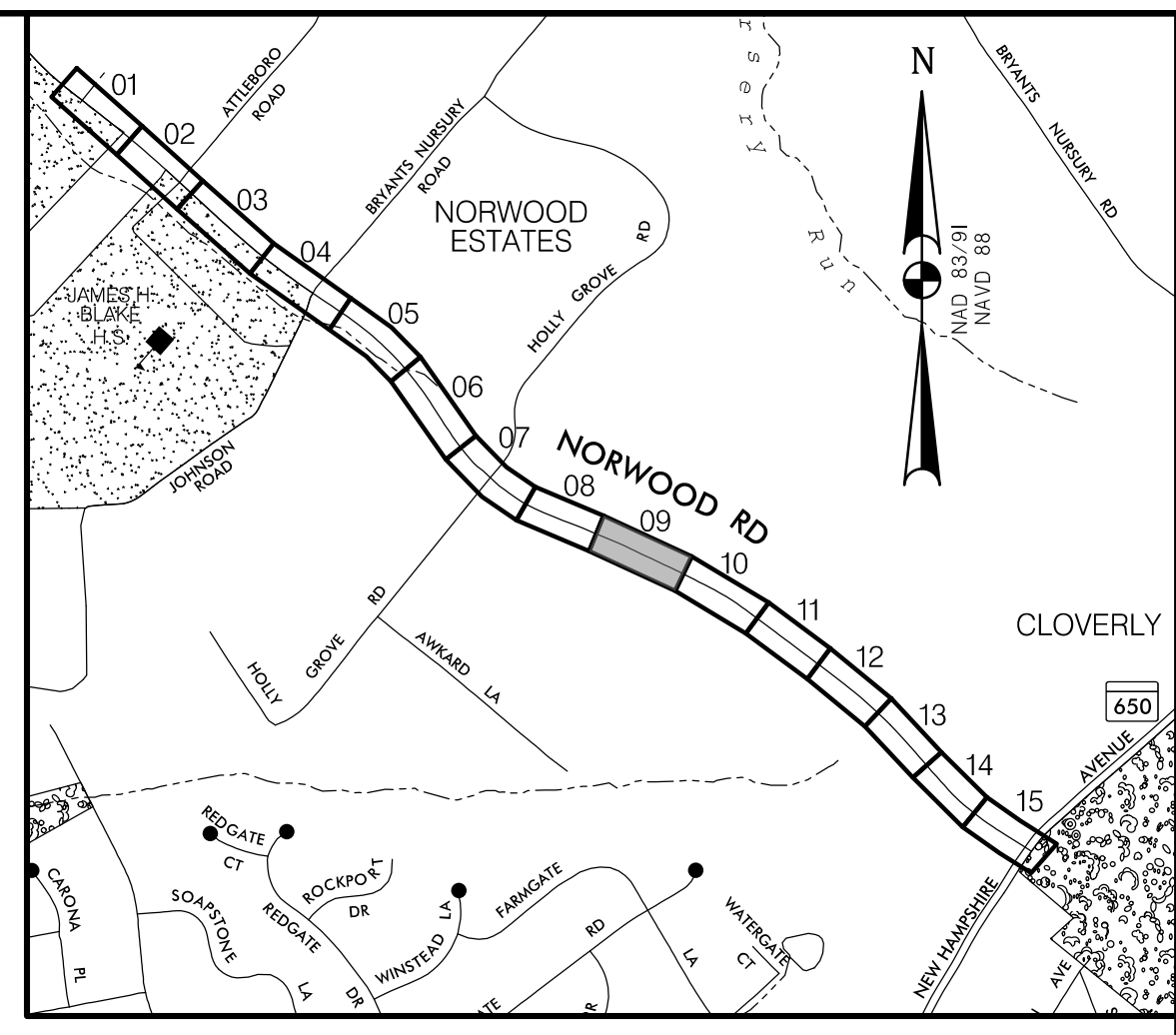
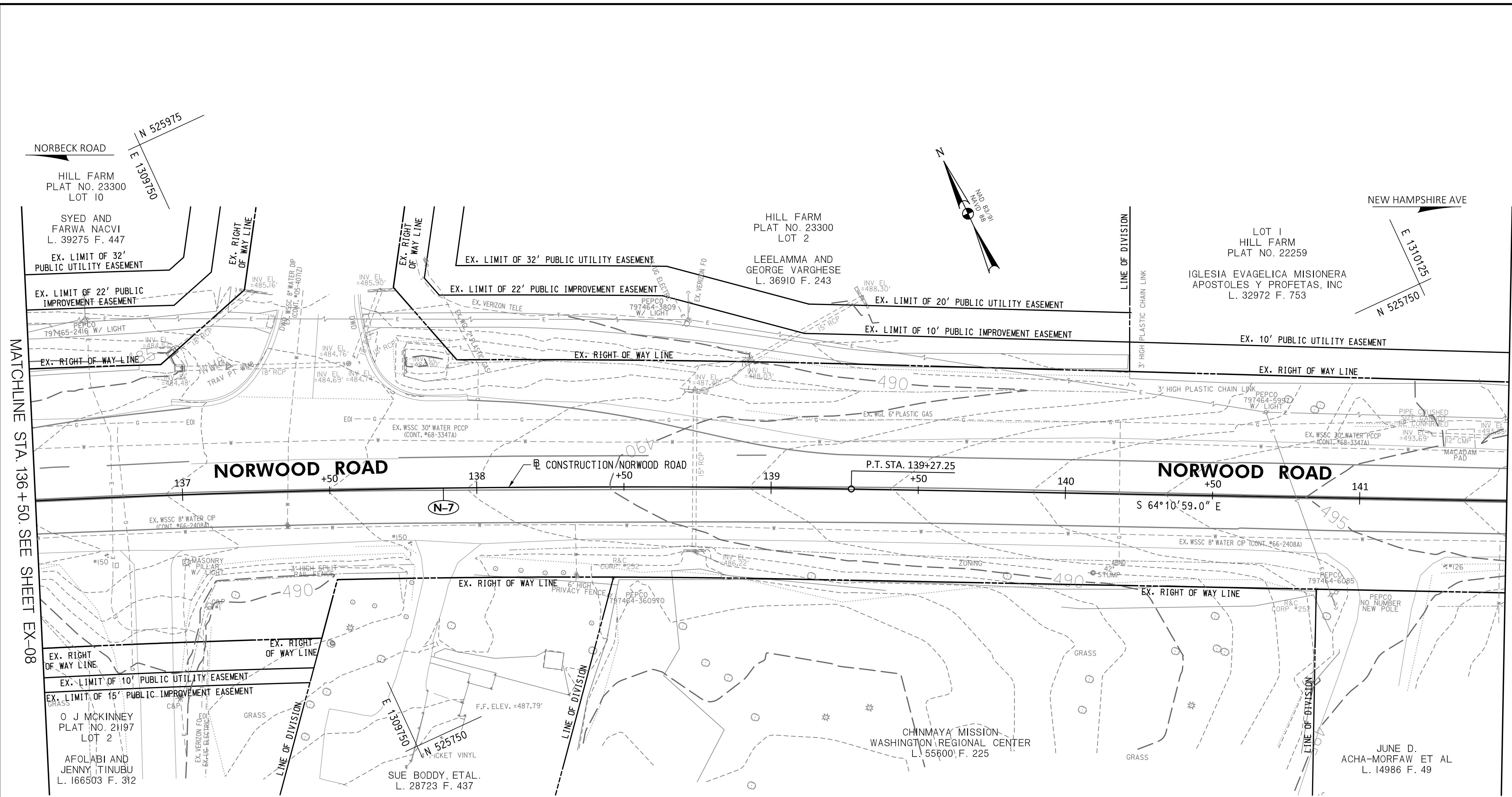
DESIGNED BY: N.D.K. DRAWN BY: N.D.K. CHECKED BY: S.H.D.

**PLAN SHEET EX-08**  
**EXISTING CONDITIONS PLAN**  
**NORWOOD ROAD**  
**SHARED USE PATH**  
**STA. 132+50 TO STA. 136+50**

SCALE: 1"=20'      DATE: JAN, 2024

PROJECT NO.: C.I.P. # PENDING      SHEET NO. 16 OF 133



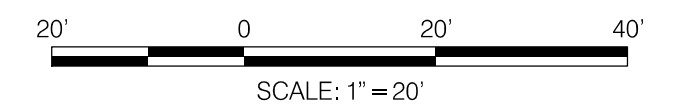


**LOCATION MAP**  
SCALE 1"=1000'

MATCHLINE STA. 136+50. SEE SHEET EX-08

MATCHLINE STA. 141+50. SEE SHEET EX-10

**30% SUBMITTAL**



**WALLACE MONTGOMERY**  
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**EXISTING CONDITIONS LEGEND**

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DATUM: NAD 83/91 HORIZONTAL  
NAVD 88 VERTICAL

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LICENSE NO.: 39917  
EXP. DATE: 01/18/2025

**SEAL**

NO.	REVISION	DATE	BY

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

RECOMMENDED FOR APPROVAL

Chief, Design Section \_\_\_\_\_ DATE \_\_\_\_\_  
APPROVED

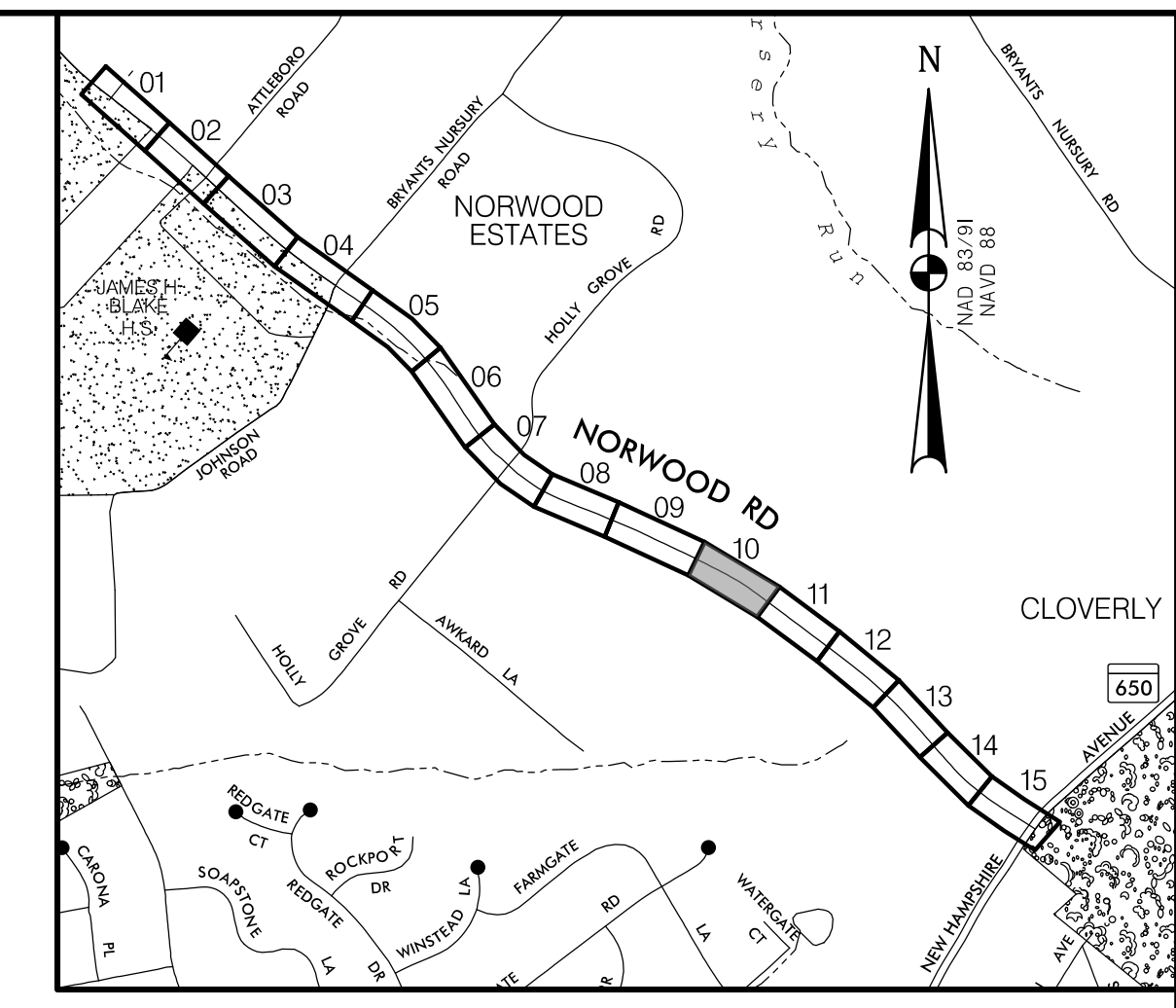
Chief, Division of Engineering Services \_\_\_\_\_ DATE \_\_\_\_\_

DESIGNED BY: N.D.K. DRAWN BY: N.D.K. CHECKED BY: S.H.D.

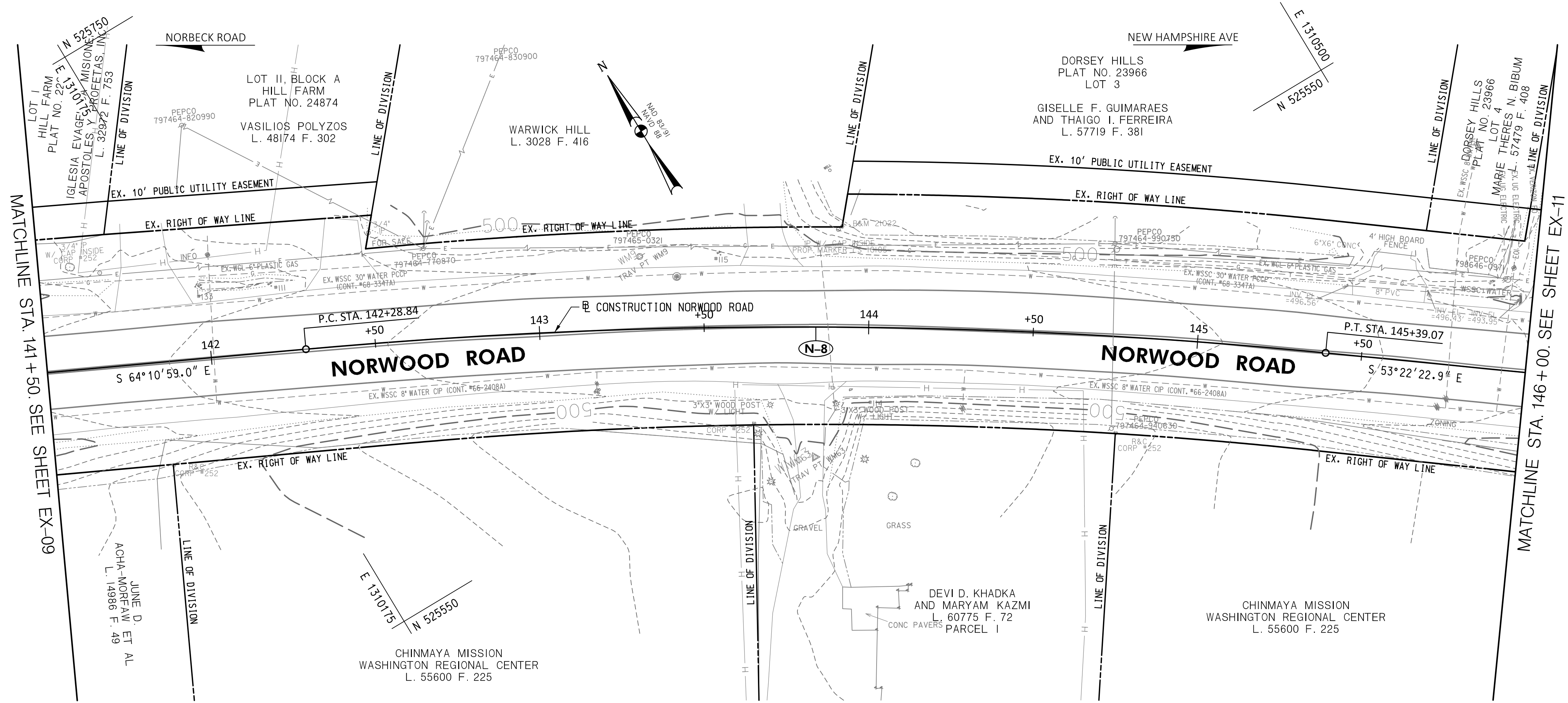
**PLAN SHEET EX-09**  
**EXISTING CONDITIONS PLAN**  
**NORWOOD ROAD**  
**SHARED USE PATH**  
**STA. 136+50 TO STA. 141+50**

SCALE: 1"=20' DATE: JAN, 2024

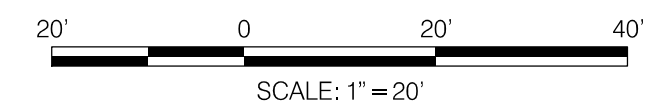
PROJECT NO.: C.I.P. # PENDING SHEET NO. 17 OF 133



**LOCATION MAP**  
SCALE 1"=1000'



**30% SUBMITTAL**



DATUM: NAD 83/91 HORIZONTAL  
NAVD 88 VERTICAL

**WALLACE MONTGOMERY**  
ENGINEERS-PLANNERS-SURVEYORS-CONSTRUCTION MANAGERS  
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www.WallaceMontgomery.com

- EXISTING CONDITIONS LEGEND**
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LICENSE NO.: 39917  
EXP. DATE: 01/18/2025

SEAL  
STATE OF MARYLAND  
SETH H. DARLINGTON  
No. 39917  
PROFESSIONAL ENGINEER

NO.	REVISION	DATE	BY

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

RECOMMENDED FOR APPROVAL

Chief, Design Section DATE \_\_\_\_\_  
APPROVED

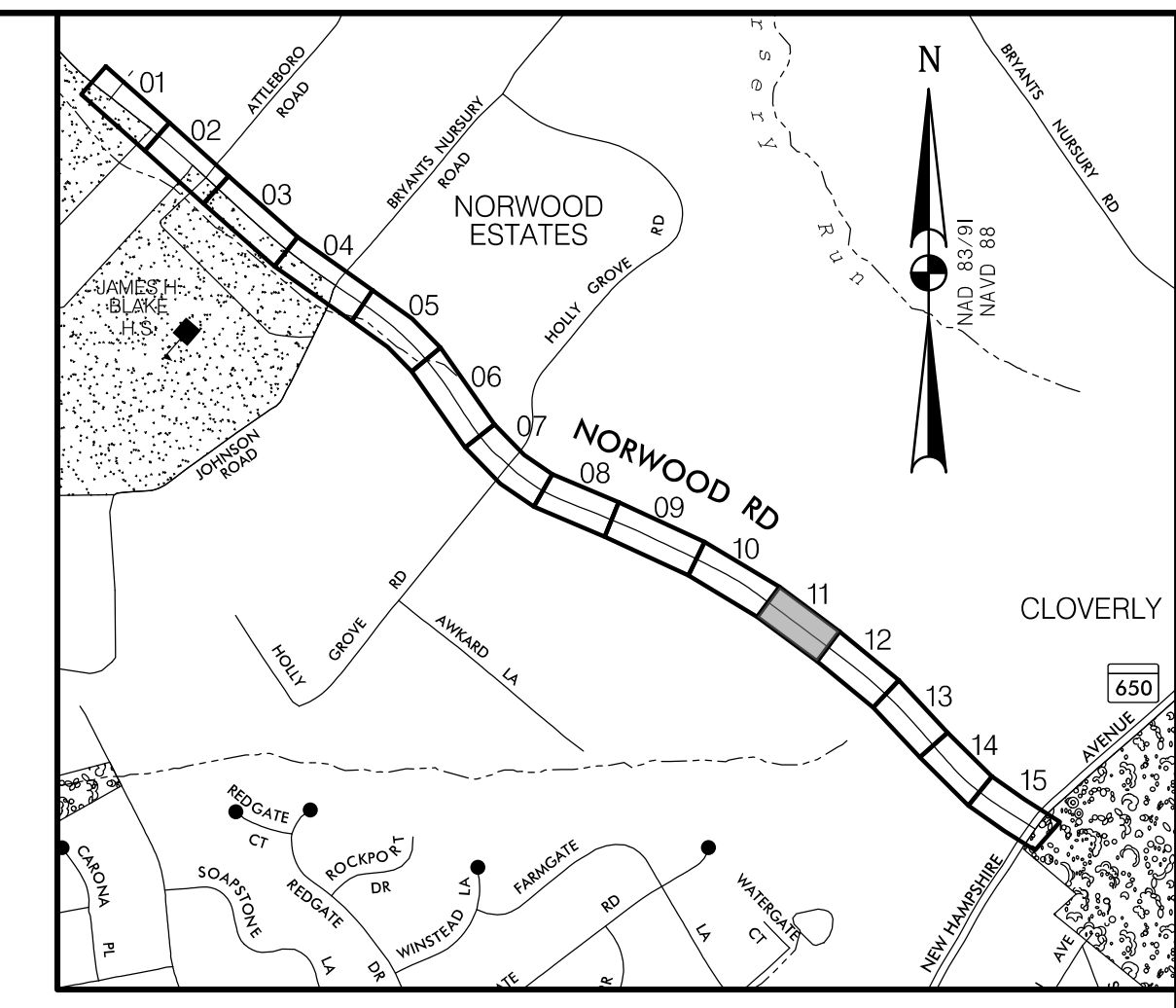
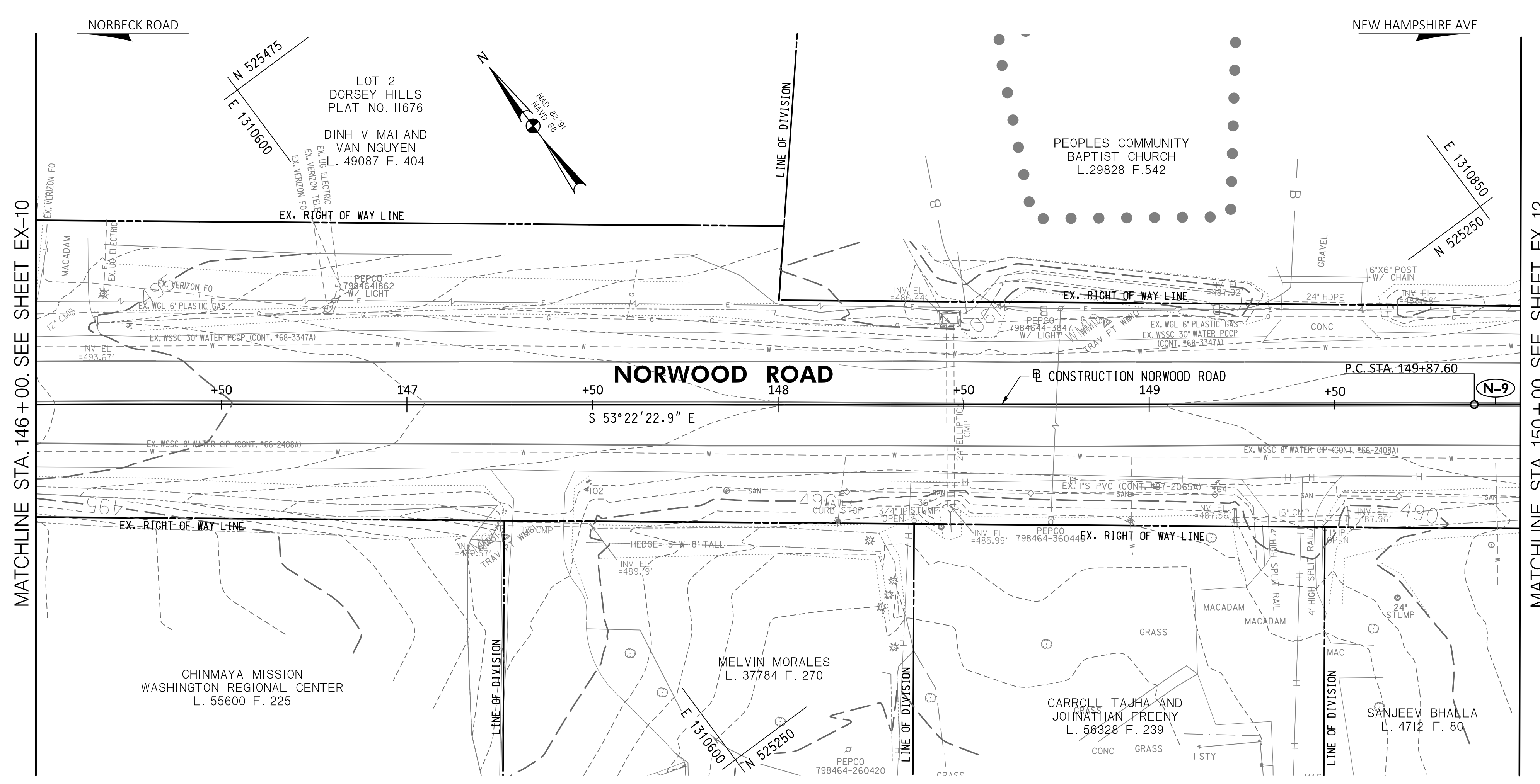
Chief, Division of Engineering Services DATE \_\_\_\_\_

DESIGNED BY: N.D.K. DRAWN BY: N.D.K. CHECKED BY: S.H.D.

**PLAN SHEET EX-10**  
**EXISTING CONDITIONS PLAN**  
**NORWOOD ROAD**  
**SHARED USE PATH**  
**STA. 141+50 TO STA. 146+00**

SCALE: 1"=20' DATE: JAN, 2024

PROJECT NO.: C.I.P. # PENDING SHEET NO. 18 OF 133

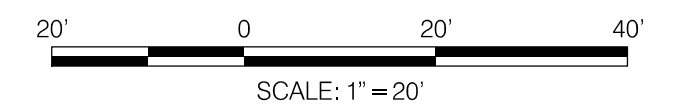


**LOCATION MAP**  
SCALE 1"=1000'

MATCHLINE STA. 146+00. SEE SHEET EX-10

MATCHLINE STA. 150+00. SEE SHEET EX-12

**30% SUBMITTAL**



DATUM: NAD 83/91 HORIZONTAL  
NAVD 88 VERTICAL

**WALLACE MONTGOMERY**  
ENGINEERS-PLANNERS-SURVEYORS-CONSTRUCTION MANAGERS  
10150 York Road, Suite 200  
Hunt Valley, Maryland 21030  
410.494.9093 Tel / 410.667.0925 Fax  
www.WallaceMontgomery.com

- EXISTING CONDITIONS LEGEND**
- TOPOGRAPHIC SURVEY WAS COMPLETED BY WALLACE MONTGOMERY IN MARCH 2023. WITH SUPPLEMENTAL SURVEYS COMPLETED BY WALLACE MONTGOMERY IN JULY 2023.
  - EXISTING UTILITIES WERE LOCATED BY MISS UTILITY IN (MONTH YEAR) AND MARKINGS WERE SURVEYED BY CV IN AUGUST 2023.
  - SEE ABBREVIATIONS AND GENERAL NOTES SHEET FOR LEGEND OF EXISTING FEATURES.

**PROFESSIONAL CERTIFICATION**

I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND. SETH H. DARLINGTON  
LICENSE NO.: 39917  
EXP. DATE: 01/18/2025

SEAL  
STATE OF MARYLAND  
SETH H. DARLINGTON  
No. 39917  
PROFESSIONAL ENGINEER  
DATE: \_\_\_\_\_

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

RECOMMENDED FOR APPROVAL

Chief, Design Section \_\_\_\_\_ DATE \_\_\_\_\_  
APPROVED

Chief, Division of Engineering Services \_\_\_\_\_ DATE \_\_\_\_\_

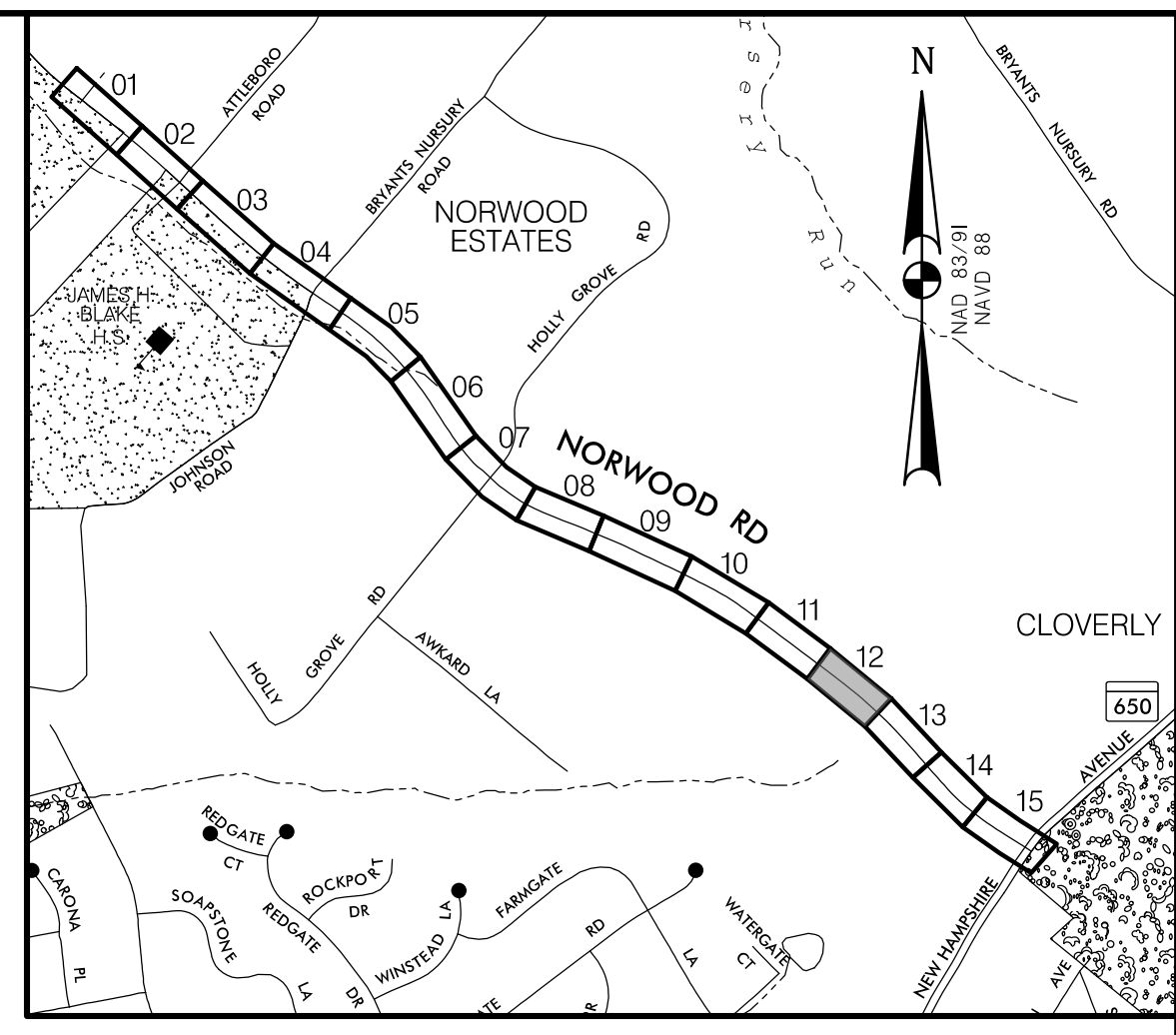
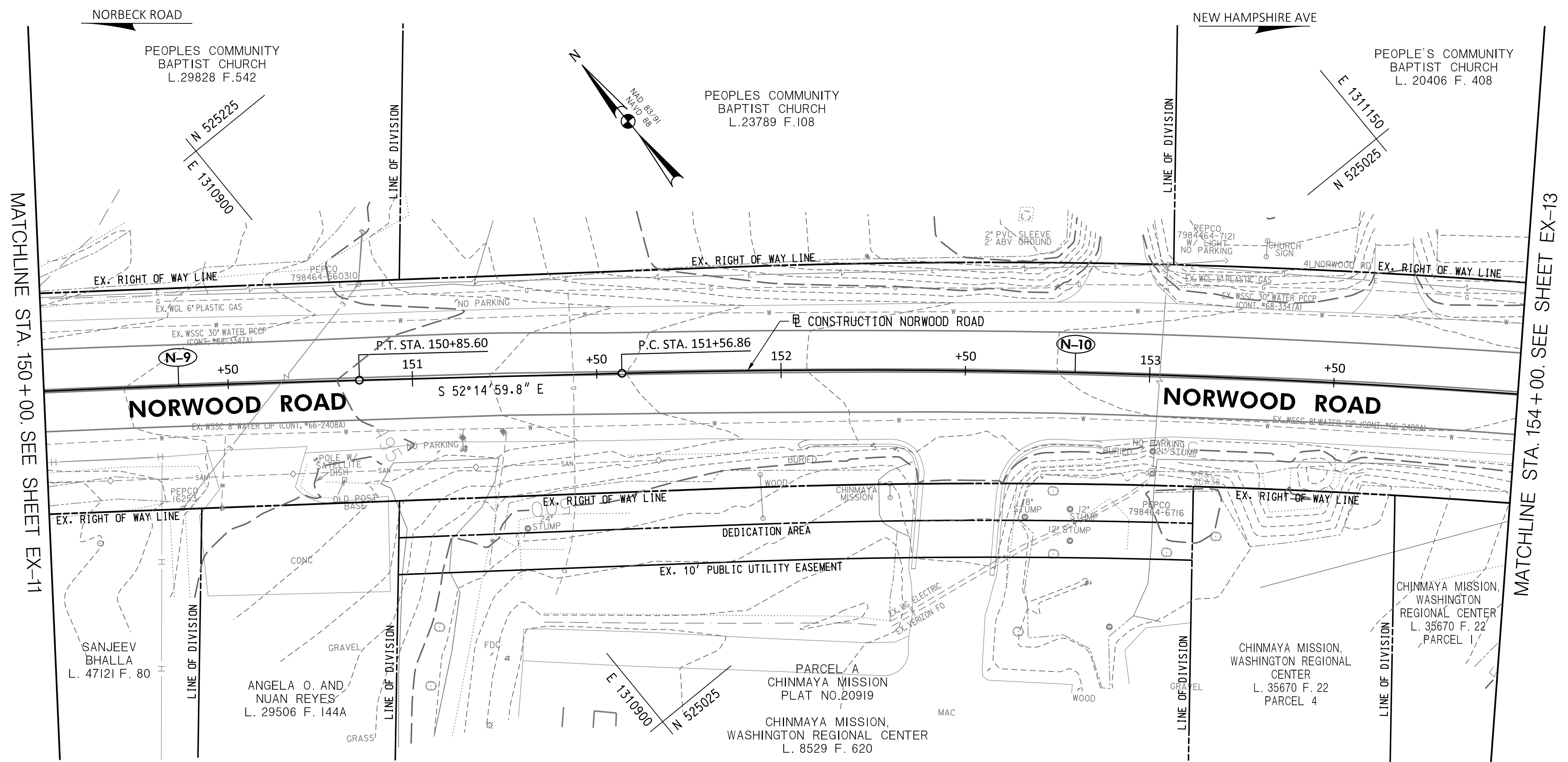
DESIGNED BY: N.D.K. DRAWN BY: N.D.K. CHECKED BY: S.H.D.

NO.	REVISION	DATE	BY

**PLAN SHEET EX-11**  
**EXISTING CONDITIONS PLAN**  
**NORWOOD ROAD**  
**SHARED USE PATH**  
**STA. 146+00 TO STA. 150+00**

SCALE: 1"=20' DATE: JAN, 2024

PROJECT NO.: C.I.P. # PENDING SHEET NO. 19 OF 133

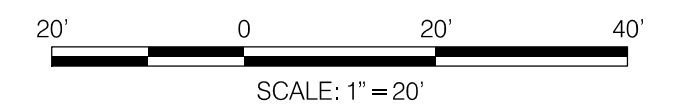


**LOCATION MAP**  
SCALE 1"=1000'

MATCHLINE STA. 150+00. SEE SHEET EX-11

MATCHLINE STA. 154+00. SEE SHEET EX-13

**30% SUBMITTAL**



DATUM: NAD 83/91 HORIZONTAL  
NAVD 88 VERTICAL

**WALLACE MONTGOMERY**  
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Hunt Valley, Maryland 21030  
410.494.9093 Tel / 410.667.0925 Fax  
www.WallaceMontgomery.com

**EXISTING CONDITIONS LEGEND**

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**PROFESSIONAL CERTIFICATION**

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LICENSE NO.: 39917  
EXP. DATE: 01/18/2025

NO.	REVISION	DATE	BY

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

RECOMMENDED FOR APPROVAL

Chief, Design Section \_\_\_\_\_ DATE \_\_\_\_\_  
APPROVED

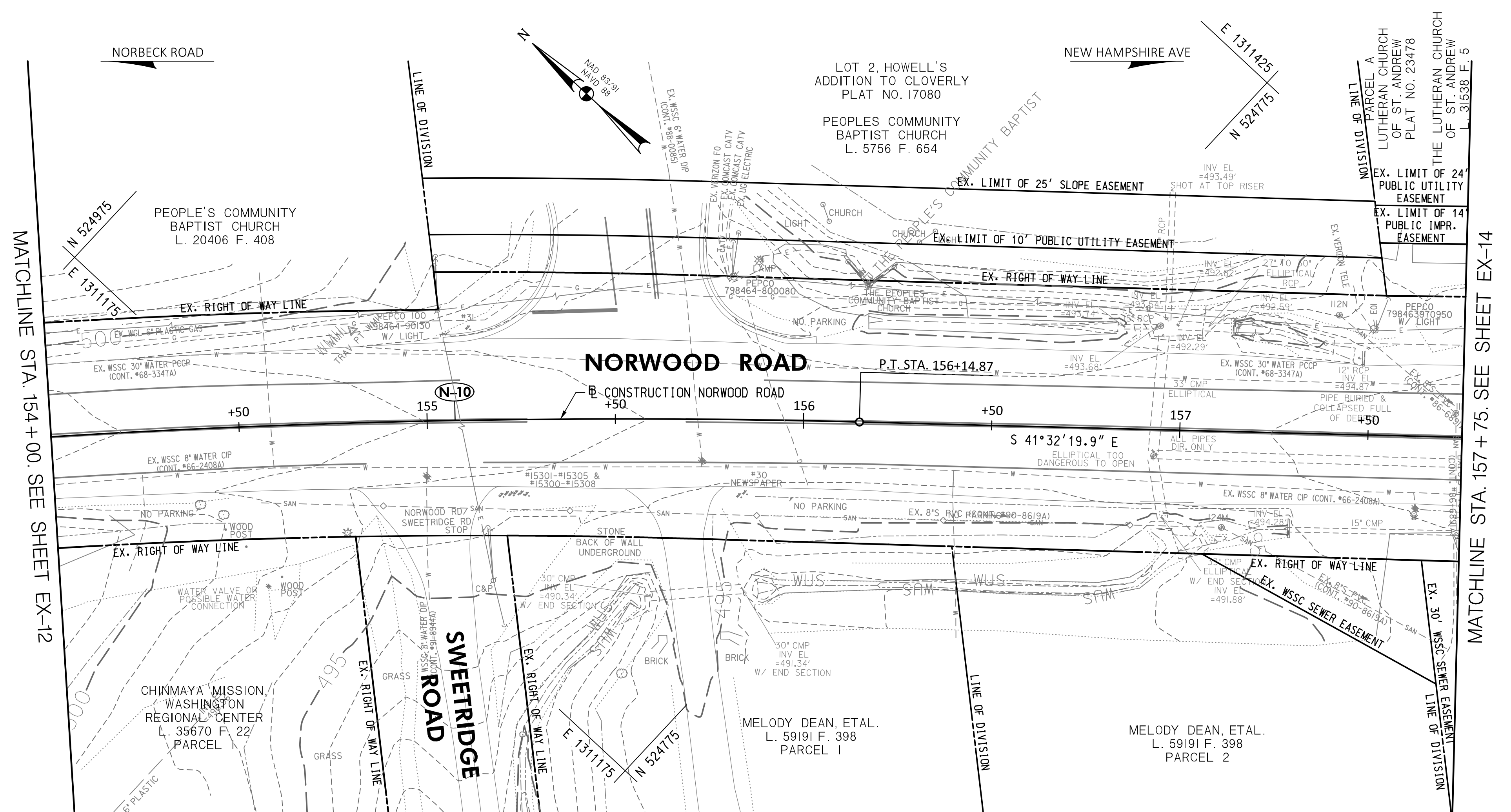
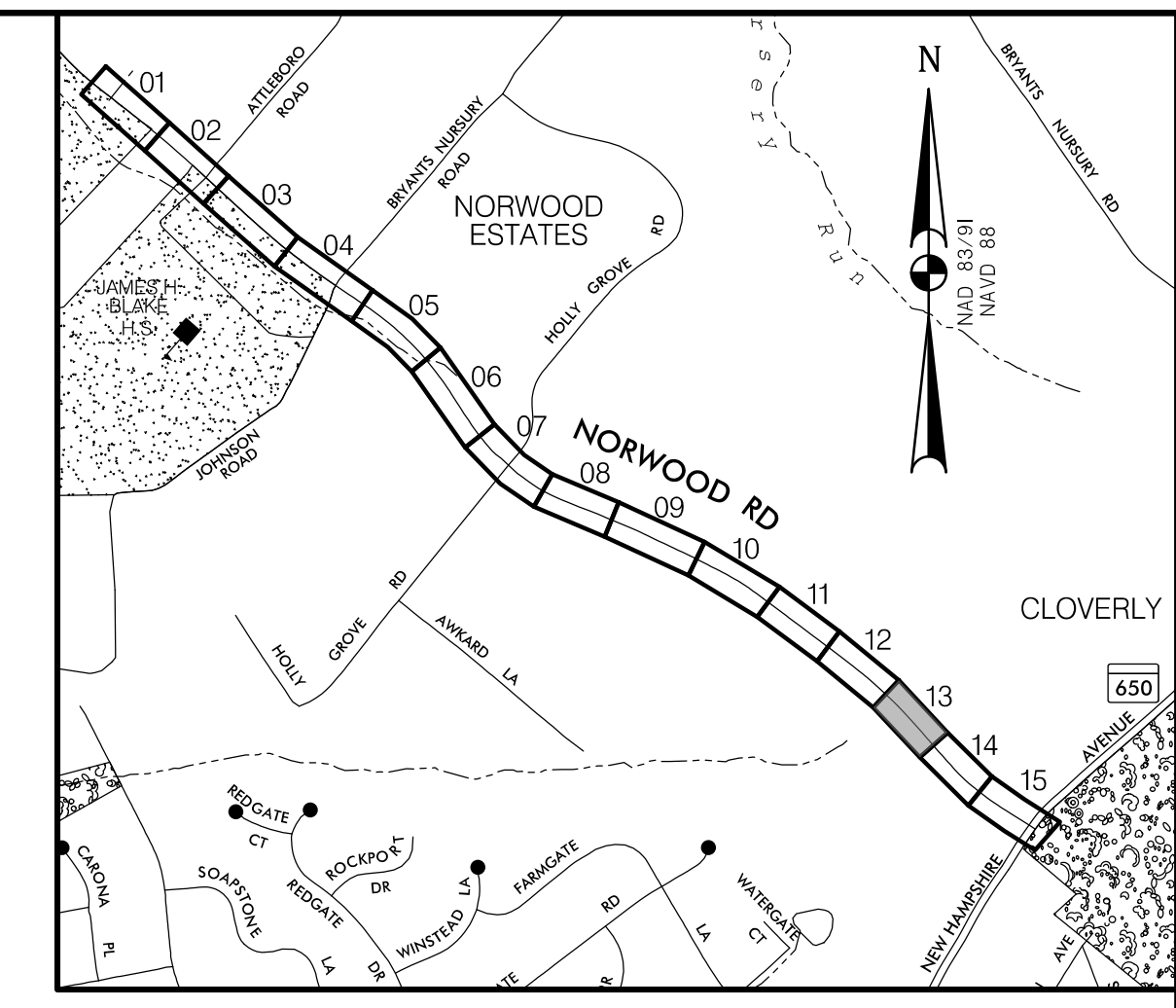
Chief, Division of Engineering Services \_\_\_\_\_ DATE \_\_\_\_\_

DESIGNED BY: N.D.K. DRAWN BY: N.D.K. CHECKED BY: S.H.D.

**PLAN SHEET EX-12**  
**EXISTING CONDITIONS PLAN**  
**NORWOOD ROAD**  
**SHARED USE PATH**  
**STA. 150+00 TO STA. 154+00**

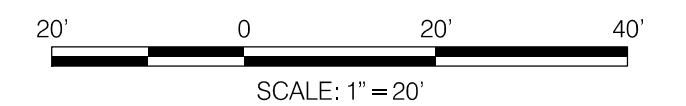
SCALE: 1"=20' DATE: JAN, 2024

PROJECT NO.: C.I.P. # PENDING SHEET NO. 20 OF 133



**LOCATION MAP**  
SCALE 1"=1000'

**30% SUBMITTAL**



DATUM: NAD 83/91 HORIZONTAL  
NAVD 88 VERTICAL

**WALLACE MONTGOMERY**  
ENGINEERS-PLANNERS-SURVEYORS-CONSTRUCTION MANAGERS  
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LICENSE NO.: 39917  
EXP. DATE: 01/18/2025

SEAL  
STATE OF MARYLAND  
SETH H. DARLINGTON  
No. 39917  
PROFESSIONAL ENGINEER

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

RECOMMENDED FOR APPROVAL

Chief, Design Section \_\_\_\_\_ DATE \_\_\_\_\_  
APPROVED

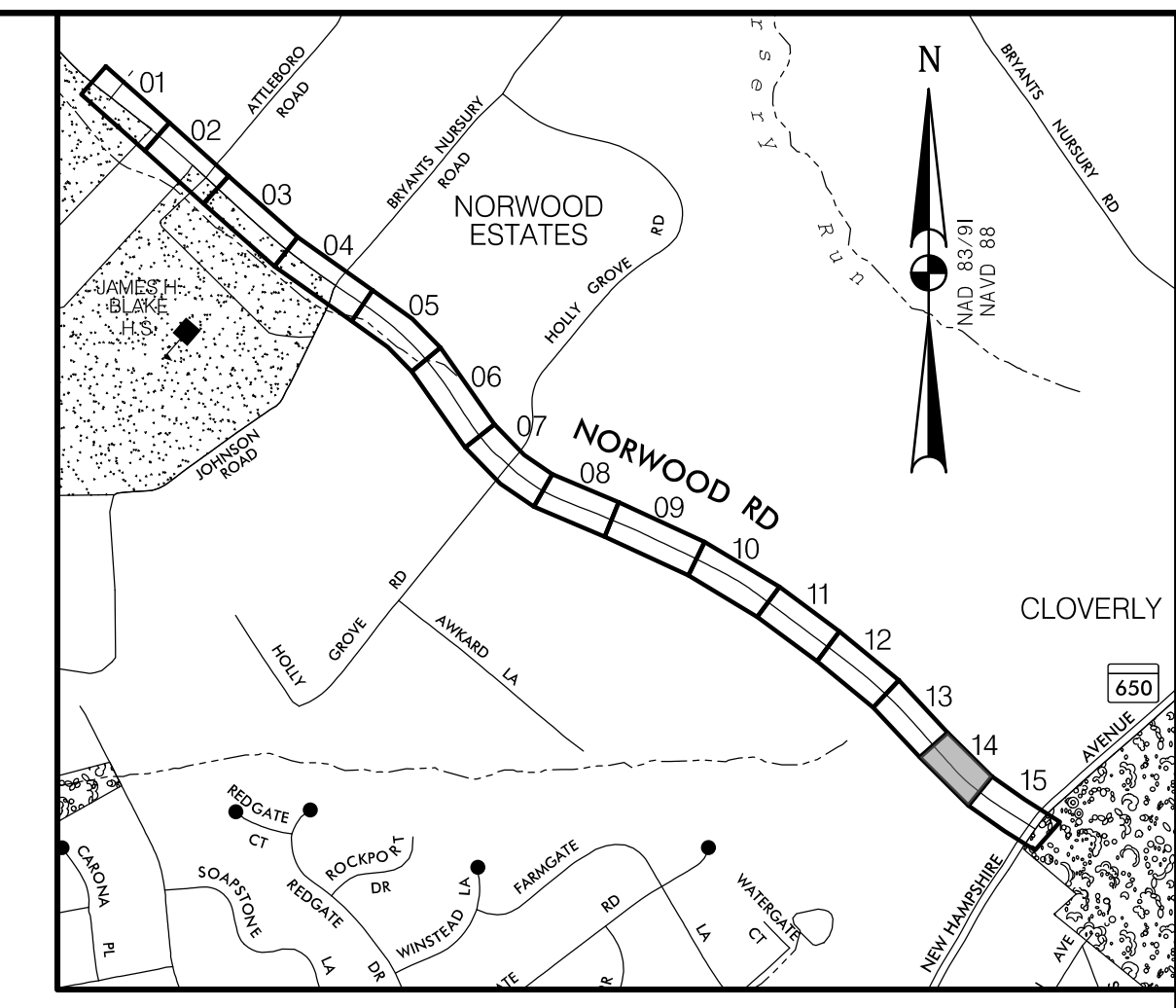
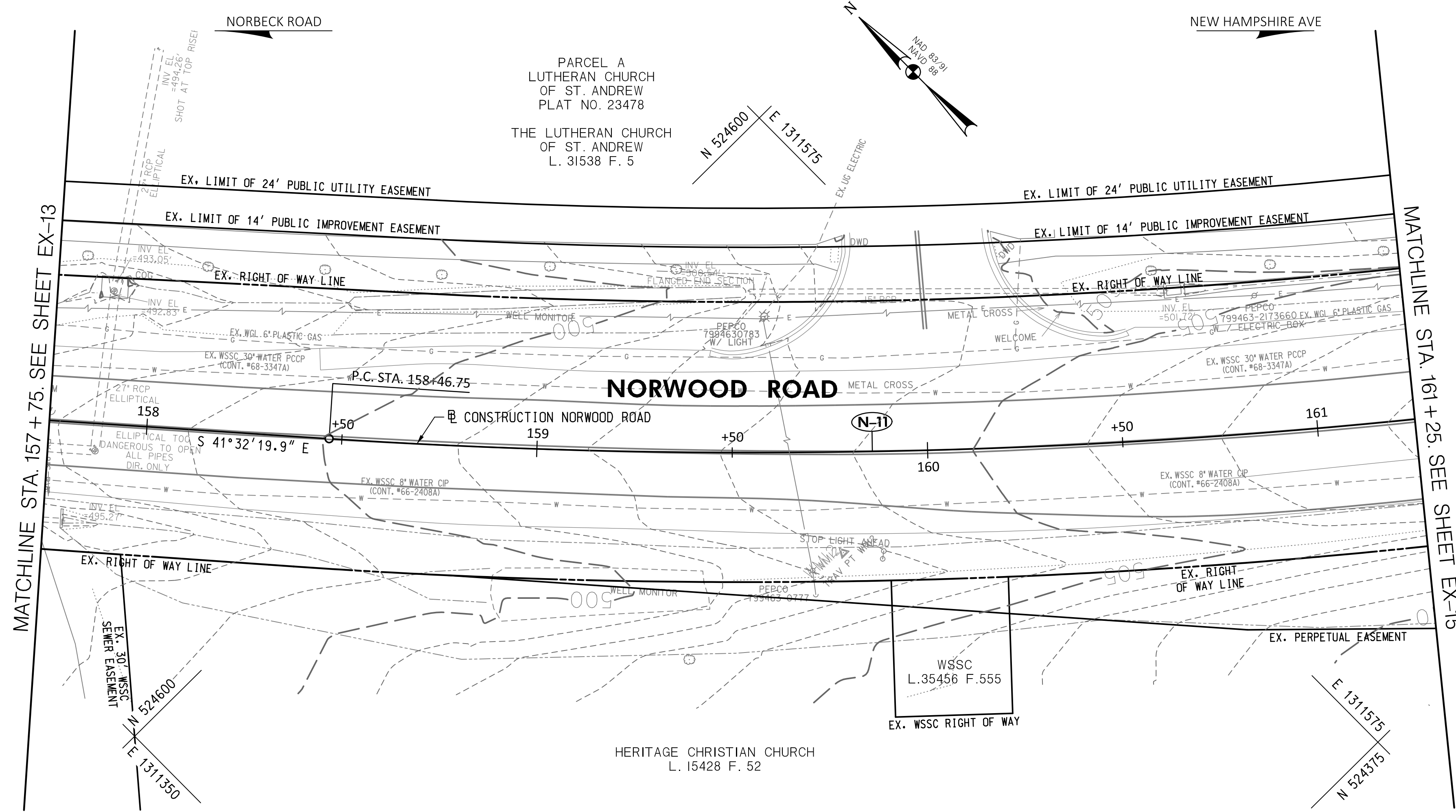
Chief, Division of Engineering Services \_\_\_\_\_ DATE \_\_\_\_\_

DESIGNED BY: N.D.K. DRAWN BY: N.D.K. CHECKED BY: S.H.D.

**PLAN SHEET EX-13**  
**EXISTING CONDITIONS PLAN**  
**NORWOOD ROAD**  
**SHARED USE PATH**  
**STA. 154+00 TO STA. 157+75**

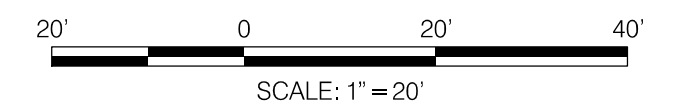
SCALE: 1"=20' DATE: JAN, 2024

PROJECT NO.: C.I.P. # PENDING SHEET NO. 21 OF 133



**LOCATION MAP**  
SCALE 1"=1000'

**30% SUBMITTAL**



DATUM: NAD 83/91 HORIZONTAL  
NAVD 88 VERTICAL

**WALLACE MONTGOMERY**  
ENGINEERS-PLANNERS-SURVEYORS-CONSTRUCTION MANAGERS  
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410.494.9093 Tel / 410.667.0925 Fax  
www.WallaceMontgomery.com

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**PROFESSIONAL CERTIFICATION**

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LICENSE NO.: 39917  
EXP. DATE: 01/18/2025

STATE OF MARYLAND  
SETH H. DARLINGTON  
No. 39917  
PROFESSIONAL ENGINEER

NO.	REVISION	DATE	BY

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

RECOMMENDED FOR APPROVAL

Chief, Design Section \_\_\_\_\_ DATE \_\_\_\_\_  
APPROVED

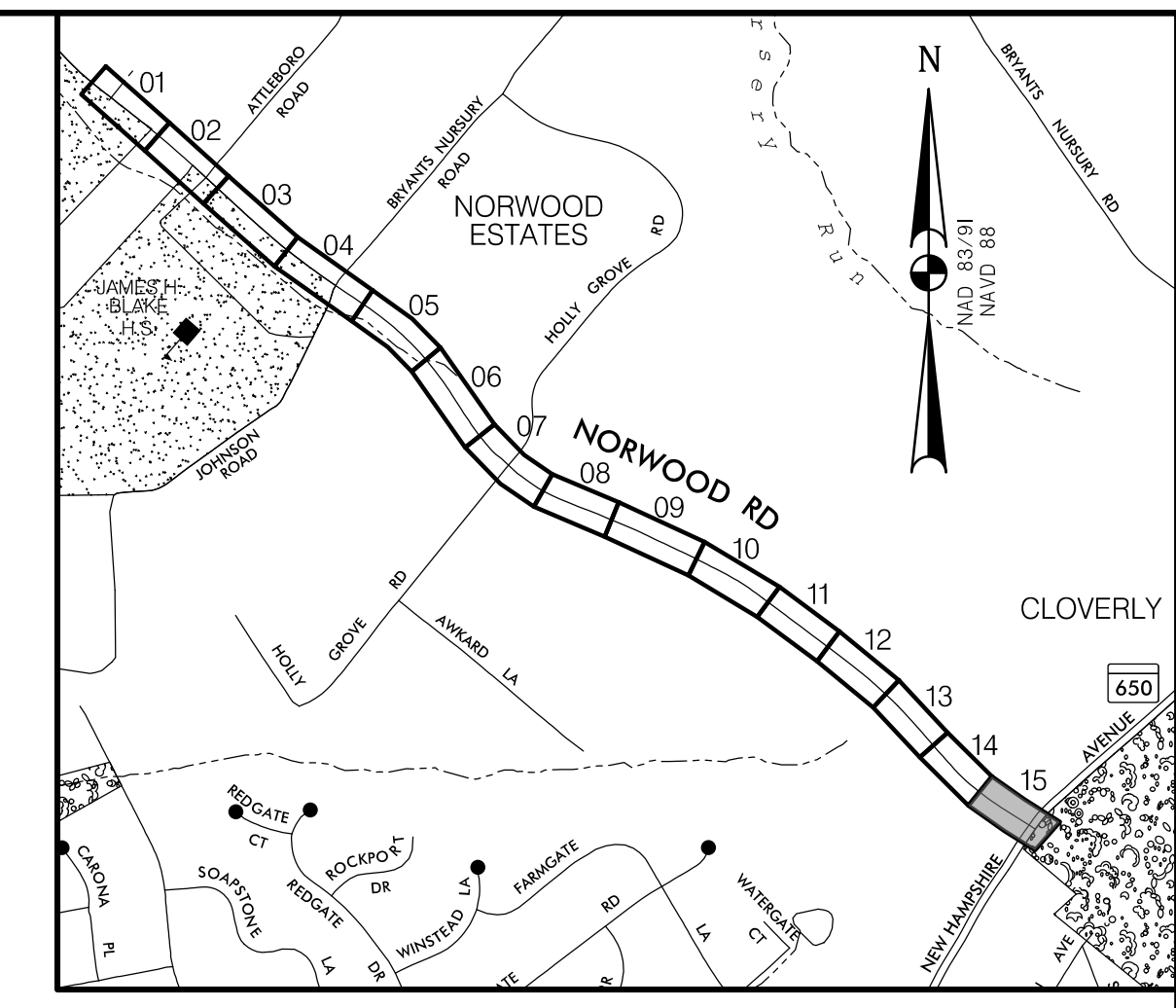
Chief, Division of Engineering Services \_\_\_\_\_ DATE \_\_\_\_\_

DESIGNED BY: N.D.K. DRAWN BY: N.D.K. CHECKED BY: S.H.D.

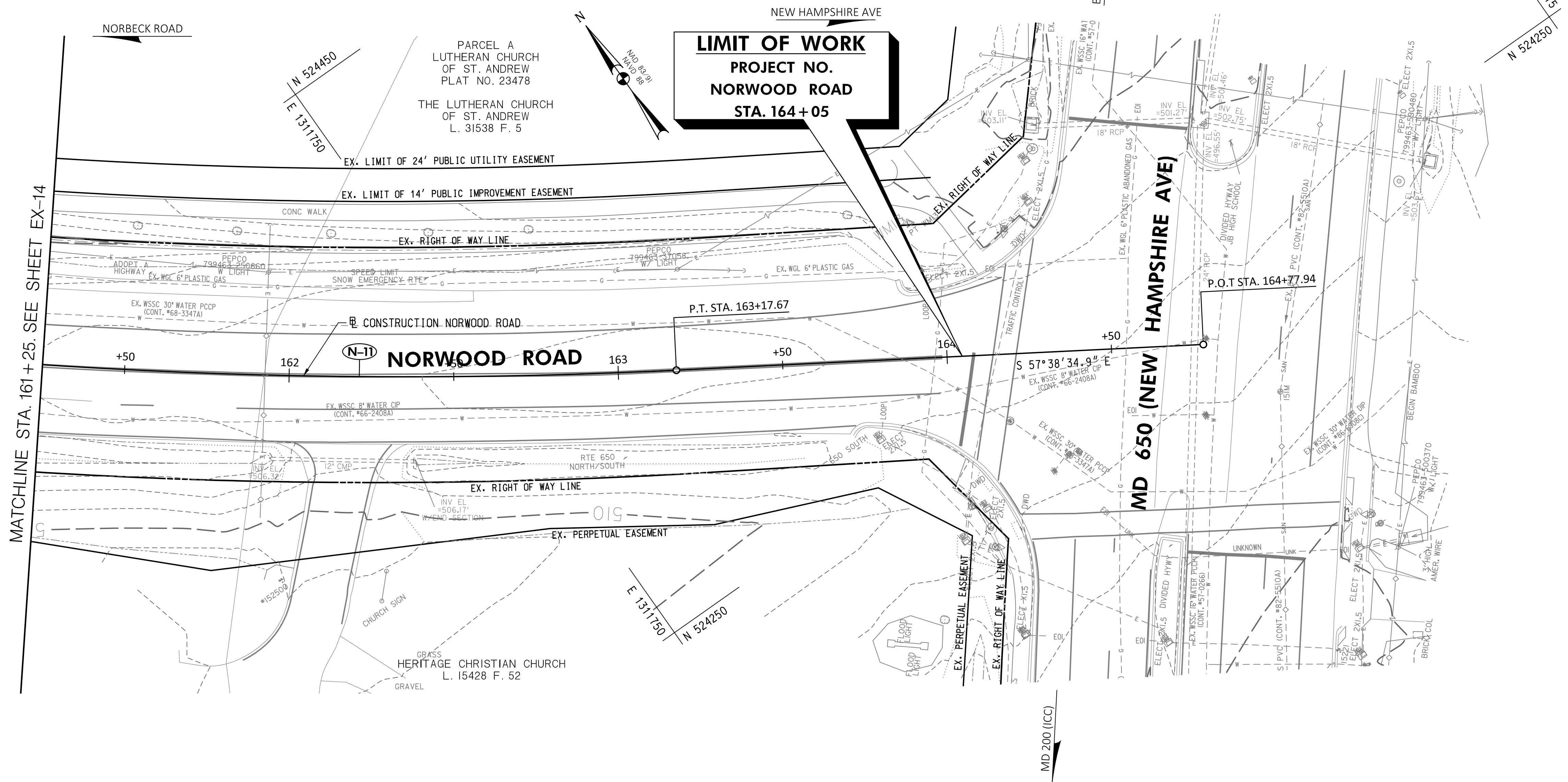
**PLAN SHEET EX-14**  
**EXISTING CONDITIONS PLAN**  
**NORWOOD ROAD**  
**SHARED USE PATH**  
**STA. 157+75 TO STA. 161+25**

SCALE: 1"=20' DATE: JAN, 2024

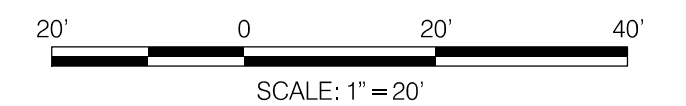
PROJECT NO.: C.I.P. # PENDING SHEET NO. 22 OF 133



**LOCATION MAP**  
SCALE 1"=1000'



**30% SUBMITTAL**



DATUM: NAD 83/91 HORIZONTAL  
NAVD 88 VERTICAL

**WALLACE MONTGOMERY**  
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**PROFESSIONAL CERTIFICATION**

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LICENSE NO.: 39917  
EXP. DATE: 01/18/2025

**SEAL**  
STATE OF MARYLAND  
SETH H. DARLINGTON  
No. 39917  
PROFESSIONAL ENGINEER

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

RECOMMENDED FOR APPROVAL

Chief, Design Section \_\_\_\_\_ DATE \_\_\_\_\_  
APPROVED

Chief, Division of Engineering Services \_\_\_\_\_ DATE \_\_\_\_\_

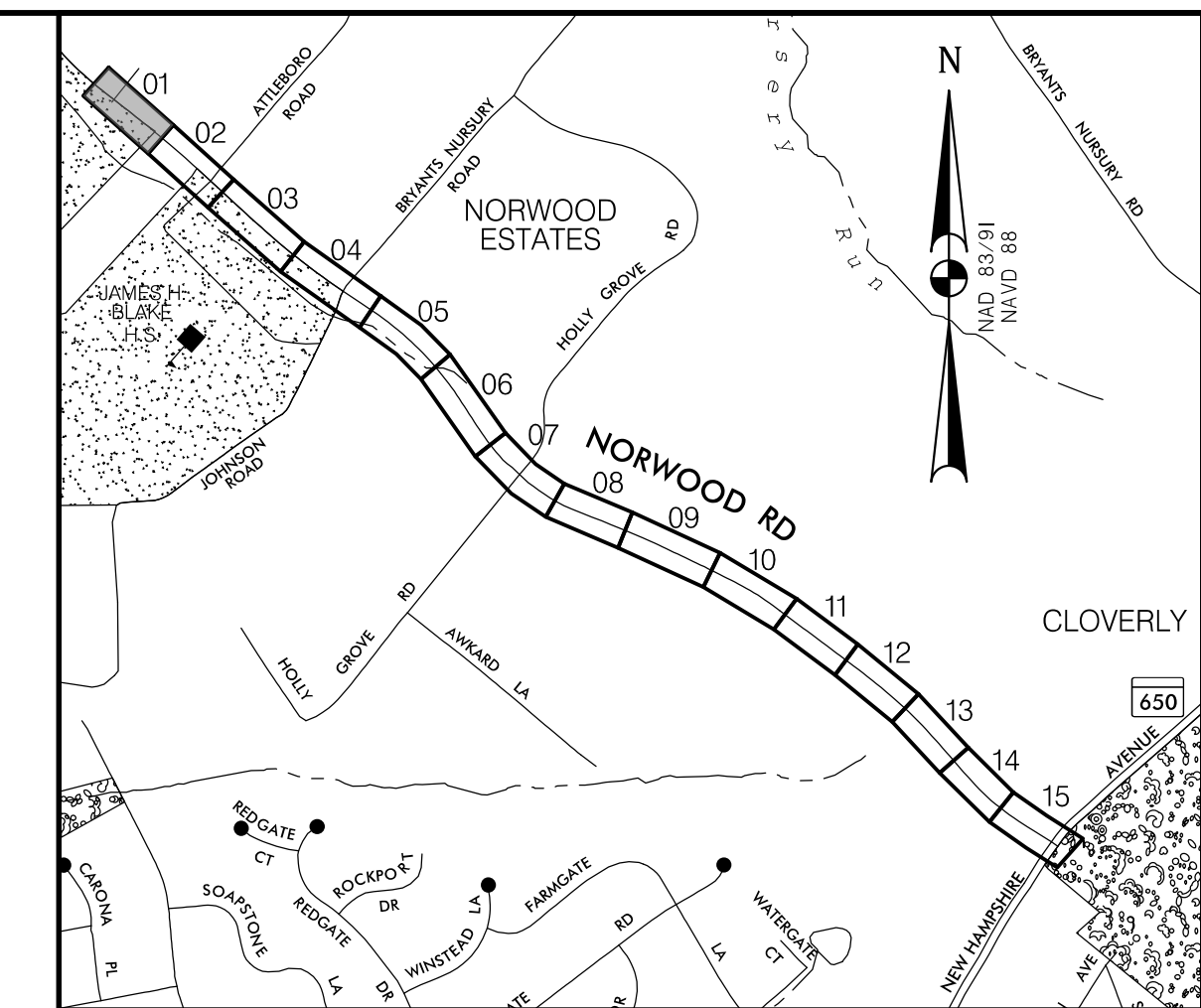
DESIGNED BY: N.D.K. DRAWN BY: N.D.K. CHECKED BY: S.H.D.

**PLAN SHEET EX-15**  
**EXISTING CONDITIONS PLAN**  
**NORWOOD ROAD**  
**SHARED USE PATH**  
**STA. 161+25 TO STA. 164+77.94**

SCALE: 1"=20' DATE: JAN, 2024

PROJECT NO.: C.I.P. # PENDING SHEET NO. 23 OF 133

N-1	N-2
<b>CURVE DATA</b>	<b>CURVE DATA</b>
Δ = 3°32'33.1"	Δ = 0°57'45.1"
Dc = 1°35'06.6"	Dc = 0°15'37.6"
R = 5951.15'	R = 22000.00'
T = 184.03'	T = 304.35'
L = 367.95'	L = 608.66'
E = 2.84'	E = 2.11'



**LOCATION MAP**  
SCALE 1"=1000'

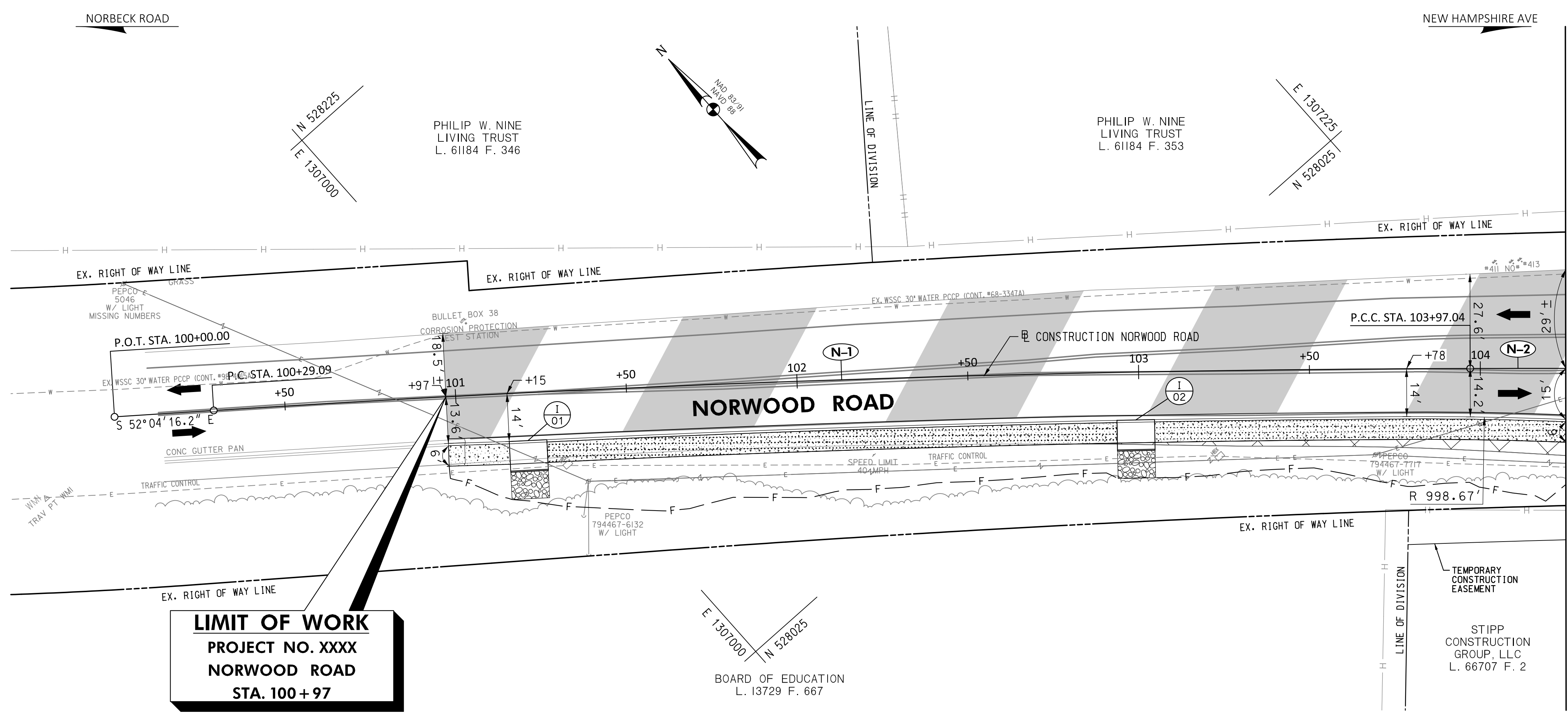
STANDARD MONTGOMERY COUNTY TYPE A COMBINATION CURB AND GUTTER, 16" GUTTER PAN, 8" MIN. DEPTH (MC-100.01)  
327 L.F. NORWOOD ROAD - STA. 100+97 TO STA. 104+25, RT.

REMOVAL OF EXISTING PAVEMENT  
11 C.Y. NORWOOD ROAD - STA. 102+83 TO STA. 104+25, RT.

MILLING HOT MIX ASPHALT PAVEMENT PER 1 INCH DEPTH (2 INCHES)  
2615 S.Y. NORWOOD ROAD - STA. 100+97 TO STA. 104+25, RT.

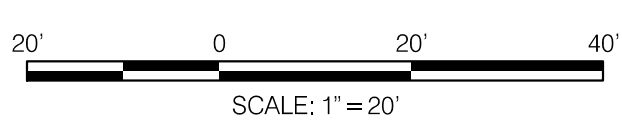
PERVIOUS PORTLAND CEMENT CONCRETE SIDEWALK, 5" DEPTH  
112 S.Y. NORWOOD ROAD - STA. 101+25 TO STA. 102+94, RT.  
82 S.Y. NORWOOD ROAD - STA. 103+04 TO STA. 104+25, RT.

4 INCH CONCRETE SIDEWALK  
12 S.Y. NORWOOD ROAD - STA. 100+97 TO STA. 104+15, RT.



**LIMIT OF WORK**  
PROJECT NO. XXXX  
NORWOOD ROAD  
STA. 100+97

MATCHLINE STA. 104+25, SEE SHEET PS-02



**30% SUBMITTAL**

**WALLACE MONTGOMERY**  
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**ROADWAY LEGEND**

	FINE MILLING & RESURFACING
	FULL DEPTH ASPHALT
	FULL DEPTH PERMEABLE ASPHALT
	CONCRETE SIDEWALK
	POROUS CONCRETE SIDEWALK
	EXISTING SIDEWALK / PAVEMENT REMOVAL

- GENERAL NOTES:**
- EXISTING RIGHT OF WAY LINES ARE BASED ON EXISTING RIGHT OF WAY INFORMATION.
  - FOR PAVEMENT MARKINGS REFER TO SIGNING AND PAVEMENT MARKING PLANS SN-2.1 TO SN-2.6.
  - ALL DIMENSIONS MEASURED TO THE FACE OF THE CURB.

DATUM: NAD 83/91 HORIZONTAL  
NAVD 88 VERTICAL

PROFESSIONAL CERTIFICATION	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. SETH H. DARLINGTON	
LICENSE NO.: 39917	DATE: 01/18/2025

NO.	REVISION	DATE	BY

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

RECOMMENDED FOR APPROVAL

Chief, Design Section \_\_\_\_\_ DATE \_\_\_\_\_  
APPROVED

Chief, Division of Engineering Services \_\_\_\_\_ DATE \_\_\_\_\_

DESIGNED BY: L.C.M. DRAWN BY: L.C.M. CHECKED BY: S.H.D.

**PLAN SHEET PS-01**  
**ROADWAY PLAN**  
**NORWOOD ROAD**  
**SHARED USE PATH**  
**STA. 100+00 TO STA. 104+25**

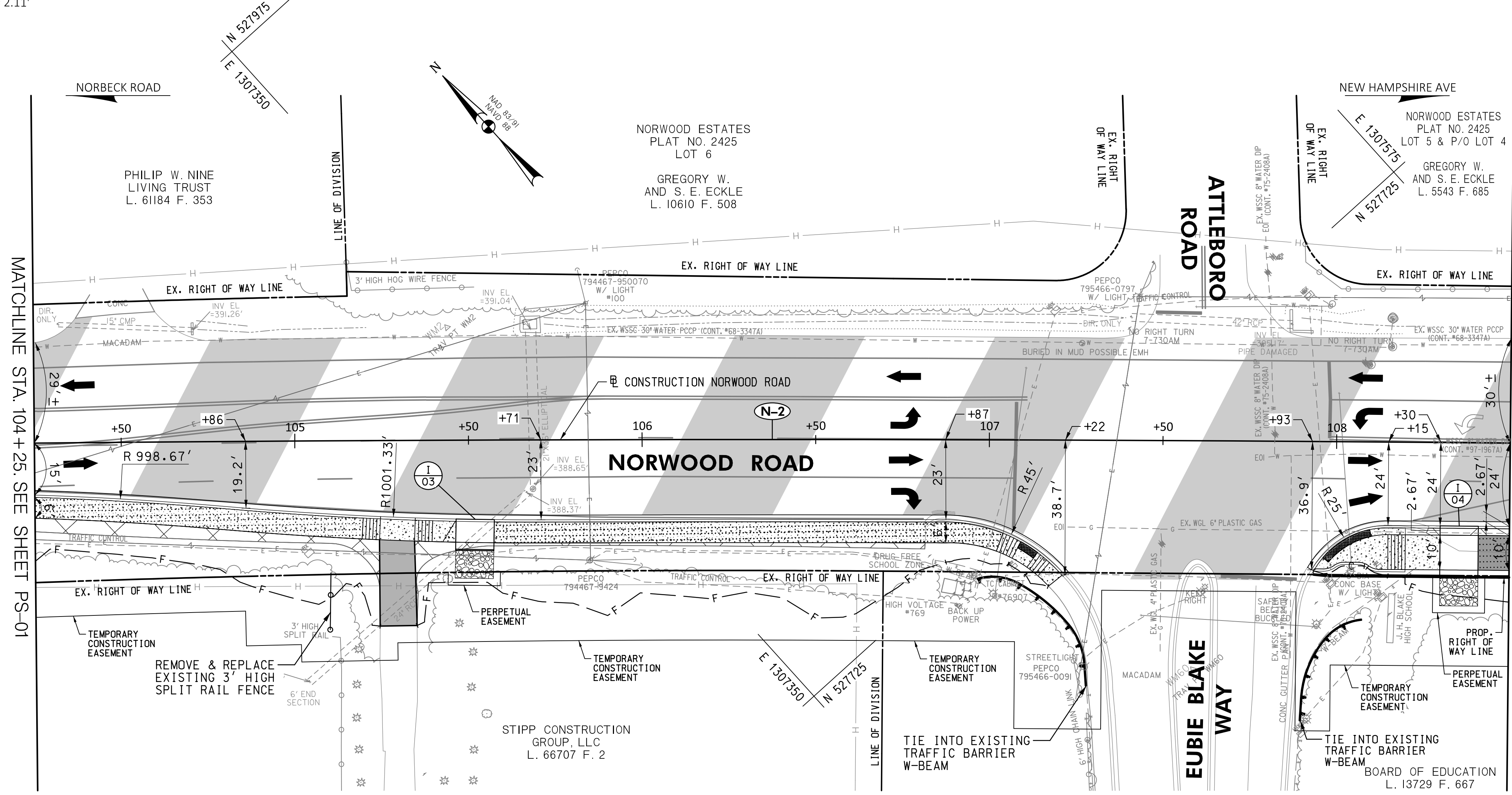
SCALE: 1"=20' DATE: JAN, 2024

PROJECT NO.:	C.I.P.# PENDING	SHEET NO. 24 OF 133
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BY: Imaggio

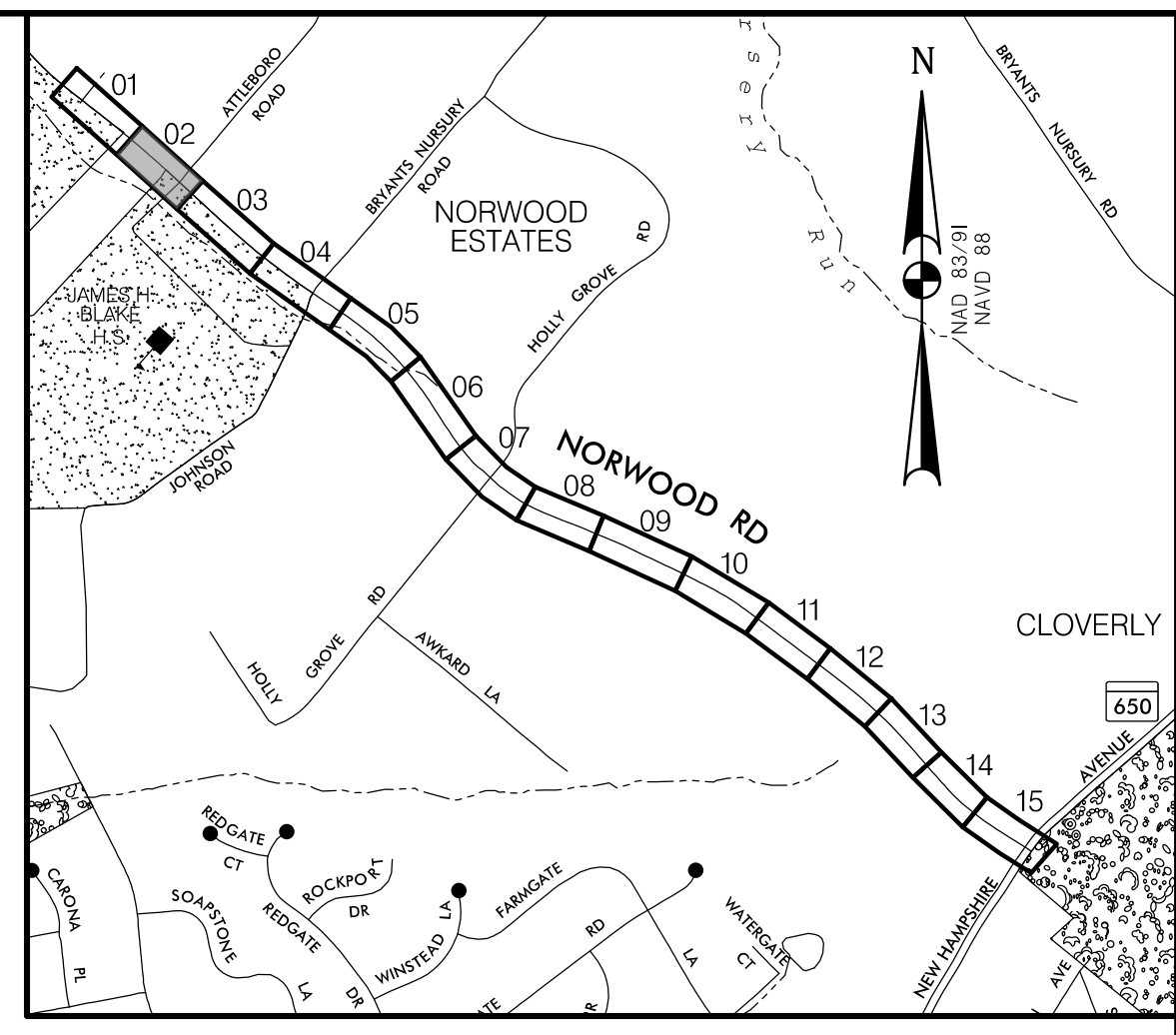


**N-2**  
**CURVE DATA**  
 $\Delta = 0^\circ 57' 45.1''$   
 $Dc = 0^\circ 15' 37.6''$   
 $R = 22000.00'$   
 $T = 304.35'$   
 $L = 608.66'$   
 $E = 2.11'$



MATCHLINE STA. 104+25. SEE SHEET PS-01

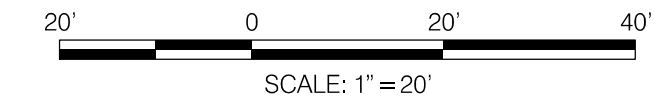
MATCHLINE STA. 108+50. SEE SHEET PS-03



<b>STANDARD MONTGOMERY COUNTY TYPE A COMBINATION CURB AND GUTTER, 16" GUTTER PAN, 8" MIN. DEPTH (MC-100.01)</b>	
95 L.F.	NORWOOD ROAD - STA. 104+25 TO STA. 105+20, RT.
165 L.F.	NORWOOD ROAD - STA. 105+40 TO STA. 107+04, RT.
6 L.F.	NORWOOD ROAD - STA. 107+18 TO STA. 107+22, RT.
30 L.F.	NORWOOD ROAD - STA. 108+15 TO STA. 108+50, RT.
<b>DEPRESSED CURB ENTRANCE (MC-102.01)</b>	
20 L.F.	NORWOOD ROAD - STA. 105+20 TO STA. 105+40, RT.
16 L.F.	NORWOOD ROAD - STA. 107+04 TO STA. 107+18, RT.
27 L.F.	NORWOOD ROAD - STA. 107+93 TO STA. 108+15, RT.
<b>7 INCH PORTLAND CEMENT CONCRETE PAVEMENT FOR RESIDENTIAL DRIVEWAY MIX NO. 9 (MC-301.01)</b>	
121 S.F.	NORWOOD ROAD - STA. 105+20 TO STA. 105+40, RT.
<b>REMOVAL OF EXISTING PAVEMENT</b>	
13 C.Y.	NORWOOD ROAD - STA. 104+25 TO STA. 105+24, RT.
8 C.Y.	NORWOOD ROAD - STA. 105+34 TO STA. 106+81, RT.
2 C.Y.	NORWOOD ROAD - STA. 108+26 TO STA. 108+50, RT.
<b>4 INCH CONCRETE SIDEWALK</b>	
104 S.F.	NORWOOD ROAD - STA. 107+04 TO STA. 107+21, RT.
318 S.F.	NORWOOD ROAD - STA. 107+94 TO STA. 108+30, RT.
<b>SIDEWALK RAMP CONSTRUCTION</b>	
	NORWOOD ROAD - STA. 107+12, RT. MC-112.01
	NORWOOD ROAD - STA. 108+02, RT. MC-112.01
<b>DETECTABLE WARNING SURFACE FOR CURB RAMPS (MD 655.40)</b>	
11 S.F.	NORWOOD ROAD - STA. 107+12, RT.
31 S.F.	NORWOOD ROAD - STA. 108+02, RT.
<b>TRAFFIC BARRIER W-BEAM USING 6 FOOT POST (MD 605.23-01)</b>	
38 L.F.	NORWOOD ROAD - STA. 107+09 TO STA. 107+29, RT.
25 L.F.	NORWOOD ROAD - STA. 107+90 TO STA. 108+07, RT.
<b>PERVIOUS PORTLAND CEMENT CONCRETE SIDEWALK, 5' DEPTH</b>	
63 S.Y.	NORWOOD ROAD - STA. 104+25 TO STA. 105+20, RT.
5 S.Y.	NORWOOD ROAD - STA. 105+40 TO STA. 105+46, RT.
97 S.Y.	NORWOOD ROAD - STA. 105+57 TO STA. 107+04, RT.

<b>REMOVAL AND DISPOSAL OF EXISTING TRAFFIC BARRIER</b>	
61 L.F.	NORWOOD ROAD - STA. 106+84 TO STA. 107+29, RT.
59 L.F.	NORWOOD ROAD - STA. 107+90 TO STA. 108+23, RT.
<b>STANDARD MONTGOMERY COUNTY TYPE A CURB</b>	
63 L.F.	NORWOOD ROAD - STA. 107+93 TO STA. 108+20 RT.
<b>MILLING HOT MIX ASPHALT PAVEMENT PER 1 INCH DEPTH (2 INCHES)</b>	
5135 S.Y.	NORWOOD ROAD - STA. 104+25 TO STA. 108+50, RT.
<b>TRAFFIC BARRIER W-BEAM RADIUS ANCHORAGE (TYPE L) (MD 605.13)</b>	
1 EA.	NORWOOD ROAD - STA. 107+09, RT.
1 EA.	NORWOOD ROAD - STA. 108+07, RT.

**30% SUBMITTAL**



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	CONCRETE SIDEWALK
	POROUS CONCRETE SIDEWALK
	EXISTING SIDEWALK / PAVEMENT REMOVAL

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DATUM: NAD 83/91 HORIZONTAL  
 NAVD 88 VERTICAL

**PROFESSIONAL CERTIFICATION**

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 LICENSE NO.: 39917  
 EXP. DATE: 01/18/2025

**SEAL**

STATE OF MARYLAND  
 SETH H. DARLINGTON  
 No. 39917  
 PROFESSIONAL ENGINEER

NO.	REVISION	DATE	BY

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

RECOMMENDED FOR APPROVAL

Chief, Design Section \_\_\_\_\_ DATE \_\_\_\_\_  
 APPROVED

Chief, Division of Engineering Services \_\_\_\_\_ DATE \_\_\_\_\_

DESIGNED BY: L.C.M. DRAWN BY: L.C.M. CHECKED BY: S.H.D.

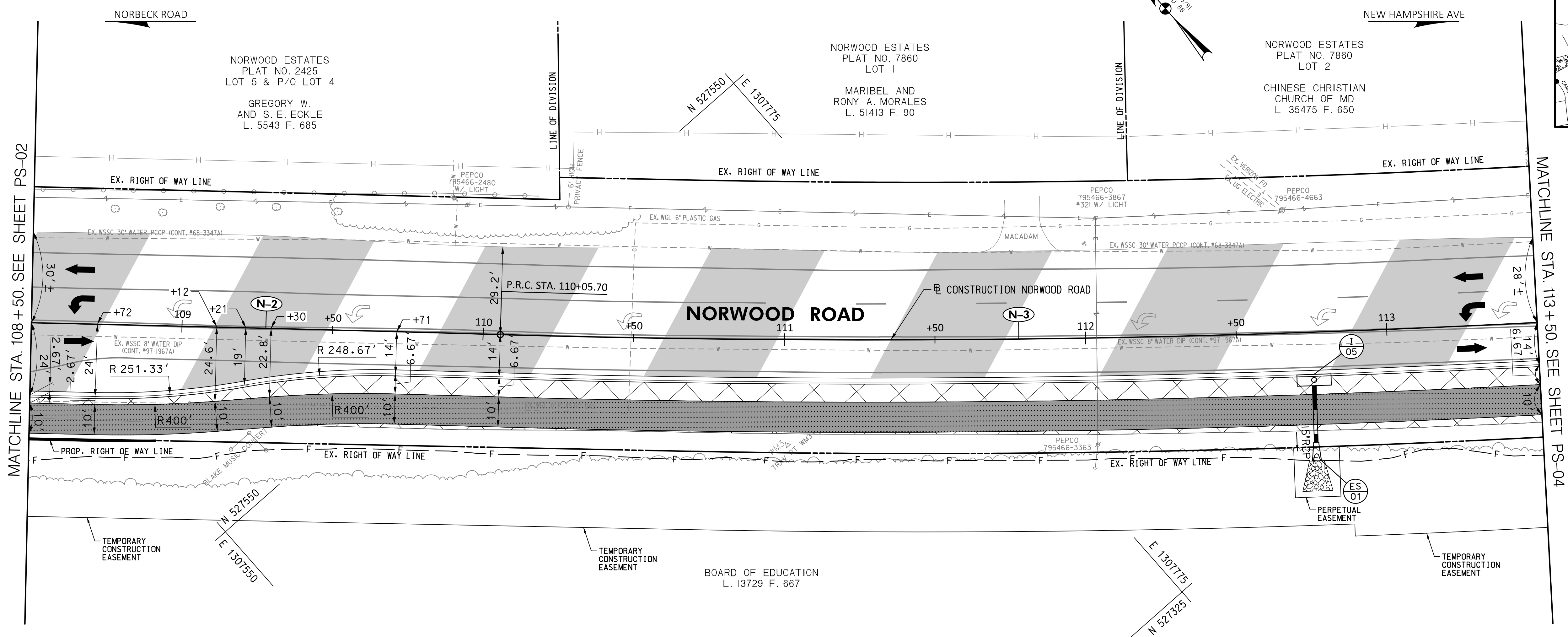
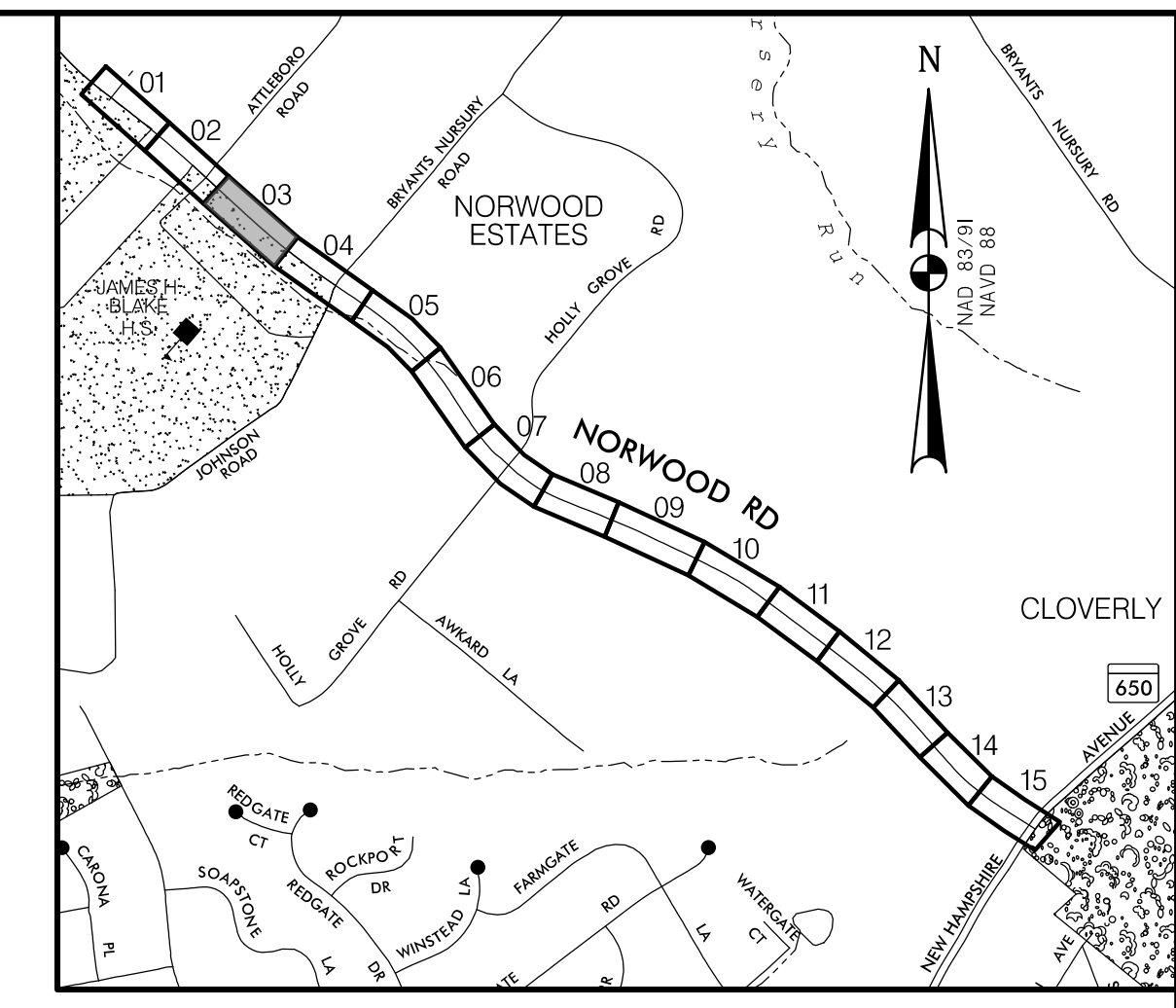
**PLAN SHEET PS-02**  
**ROADWAY PLAN**  
**NORWOOD ROAD**  
**SHARED USE PATH**  
**STA. 104+25 TO STA. 108+50**

SCALE: 1"=20' DATE: JAN, 2024

PROJECT NO.: C.I.P. # PENDING SHEET NO. 25 OF 133

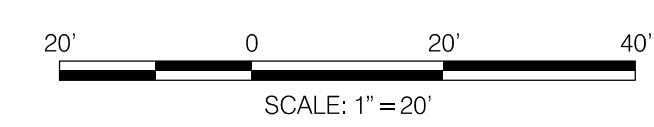
BY: Imaggio

(N-2)	(N-3)
<b>CURVE DATA</b>	<b>CURVE DATA</b>
$\Delta = 0^{\circ}57'45.1''$	$\Delta = 9^{\circ}18'26.2''$
$Dc = 0^{\circ}15'37.6''$	$Dc = 1^{\circ}20'53.3''$
$R = 22000.00'$	$R = 4250.00'$
$T = 304.35'$	$T = 345.95'$
$L = 608.66'$	$L = 690.38'$
$E = 2.11'$	$E = 14.06'$



**LOCATION MAP**  
SCALE 1"=1000'

<b>STANDARD MONTGOMERY COUNTY TYPE A COMBINATION CURB AND GUTTER, 16" GUTTER PAN, 8" MIN. DEPTH (MC-100.01)</b>	
502 L.F.	NORWOOD ROAD - STA. 108+50 TO STA. 113+50, RT.
<b>REMOVAL OF EXISTING PAVEMENT</b>	
101 C.Y.	NORWOOD ROAD - STA. 108+50 TO STA. 113+50, RT.
18 C.Y.	NORWOOD ROAD - STA. 109+39 TO STA. 113+50, RT.
<b>MILLING HOT MIX ASPHALT PAVEMENT PER 1 INCH DEPTH (2 INCHES)</b>	
4854 S.Y.	NORWOOD ROAD - STA. 108+50 TO STA. 113+50, RT.



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**ROADWAY LEGEND**

	FINE MILLING & RESURFACING
	FULL DEPTH ASPHALT
	FULL DEPTH PERMEABLE ASPHALT
	CONCRETE SIDEWALK
	POROUS CONCRETE SIDEWALK
	EXISTING SIDEWALK / PAVEMENT REMOVAL

- GENERAL NOTES:**
- EXISTING RIGHT OF WAY LINES ARE BASED ON EXISTING RIGHT OF WAY INFORMATION.
  - FOR PAVEMENT MARKINGS REFER TO SIGNING AND PAVEMENT MARKING PLANS SN-2.1 TO SN-2.6.
  - ALL DIMENSIONS MEASURED TO THE FACE OF THE CURB.

**PROFESSIONAL CERTIFICATION**

I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND. SETH H. DARLINGTON

LICENSE NO.: 39917  
EXP. DATE: 01/18/2025

**SEAL**  
STATE OF MARYLAND  
PROFESSIONAL ENGINEER  
No. 39917

**30% SUBMITTAL**

DATUM: NAD 83/91 HORIZONTAL  
NAVD 88 VERTICAL

NO.	REVISION	DATE	BY

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

RECOMMENDED FOR APPROVAL

Chief, Design Section \_\_\_\_\_ DATE \_\_\_\_\_  
APPROVED

Chief, Division of Engineering Services \_\_\_\_\_ DATE \_\_\_\_\_

DESIGNED BY: L.C.M. DRAWN BY: L.C.M. CHECKED BY: S.H.D.

**PLAN SHEET PS-03**  
**ROADWAY PLAN**  
**NORWOOD ROAD**  
**SHARED USE PATH**  
**STA. 108+50 TO STA. 113+50**

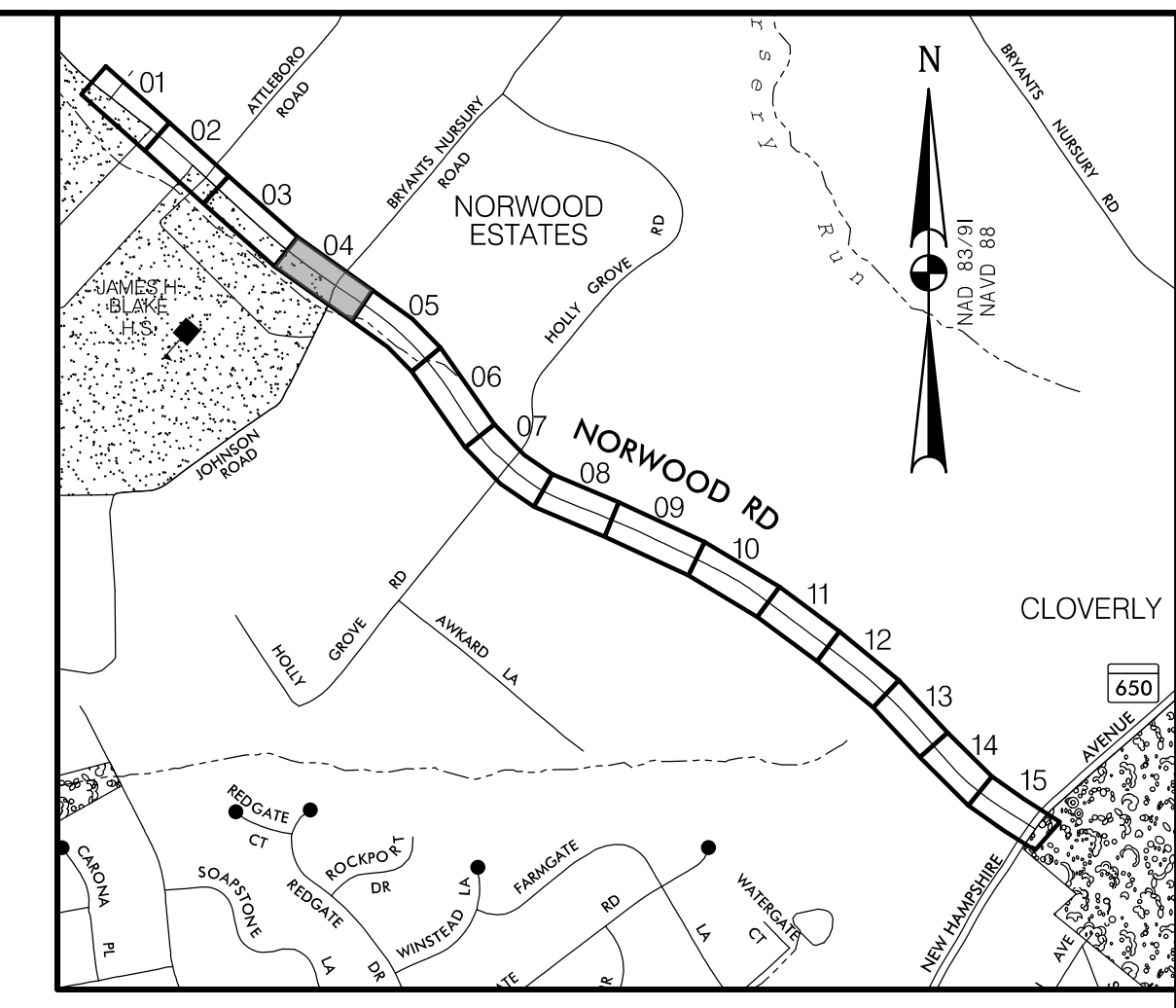
SCALE: 1"=20' DATE: JAN, 2024

PROJECT NO.: C.I.P. # PENDING SHEET NO. 26 OF 133

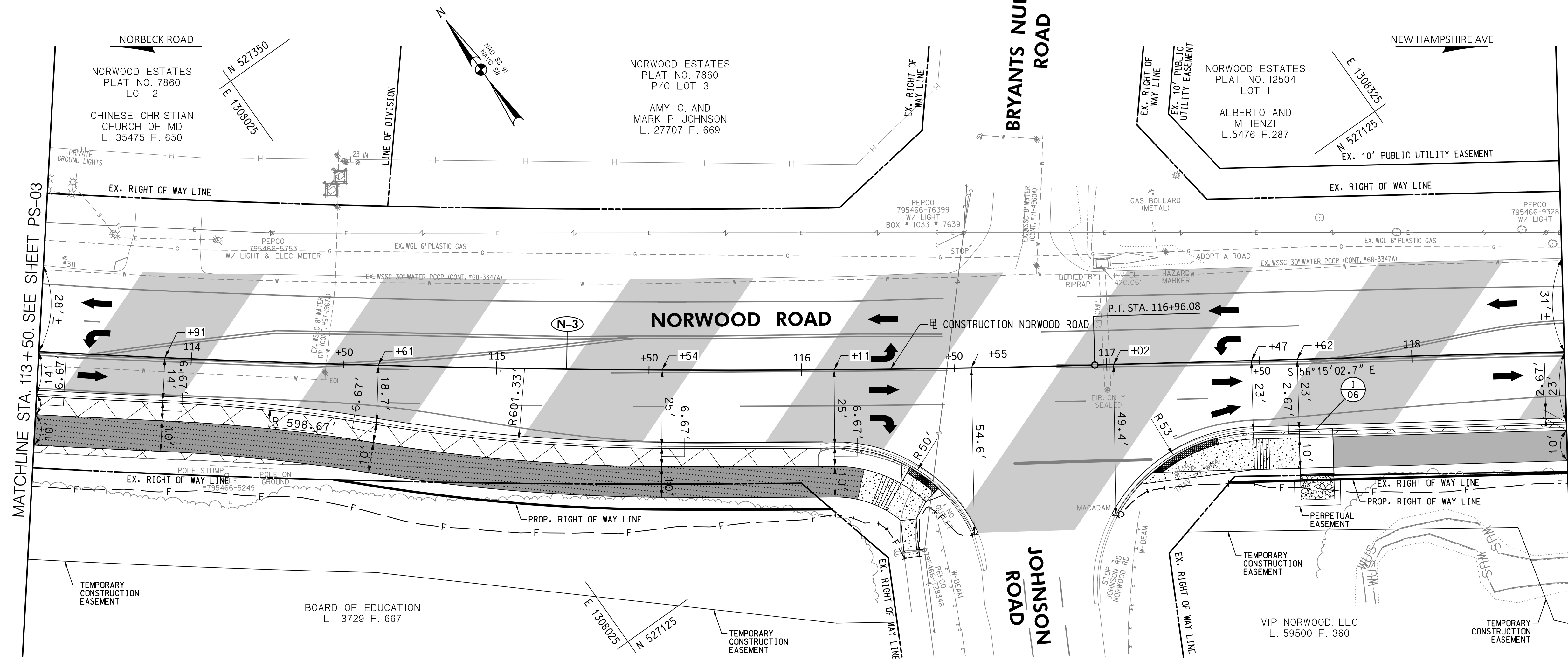
QUANTITIES CONSTRUCTION

BY: Imaggio

**N-3**  
 CURVE DATA  
 $\Delta = 9^{\circ}18'26.2''$   
 $Dc = 1^{\circ}20'53.3''$   
 $R = 4250.00'$   
 $T = 345.95'$   
 $L = 690.38'$   
 $E = 14.06'$



**LOCATION MAP**  
 SCALE 1"=1000'



**STANDARD MONTGOMERY COUNTY TYPE A COMBINATION CURB AND GUTTER, 16" GUTTER PAN, 8" MIN. DEPTH (MC-100.01)**

286 L.F.	NORWOOD ROAD - STA. 113+50 TO STA. 116+33, RT.
16 L.F.	NORWOOD ROAD - STA. 116+43 TO STA. 116+55, RT.
13 L.F.	NORWOOD ROAD - STA. 117+02 TO STA. 117+10, RT.
103 L.F.	NORWOOD ROAD - STA. 117+52 TO STA. 118+50, RT.

**DEPRESSED CURB ENTRANCE (MC-102.01)**

18 L.F.	NORWOOD ROAD - STA. 116+33 TO STA. 116+43, RT.
50 L.F.	NORWOOD ROAD - STA. 117+10 TO STA. 117+52, RT.

**REMOVAL OF EXISTING PAVEMENT**

7 C.Y.	NORWOOD ROAD - STA. 113+50 TO STA. 114+42, RT.
58 C.Y.	NORWOOD ROAD - STA. 113+50 TO STA. 116+33, RT.
5 C.Y.	NORWOOD ROAD - STA. 117+47 TO STA. 118+50, RT.

**4 INCH CONCRETE SIDEWALK**

353 S.F.	NORWOOD ROAD - STA. 116+18 TO STA. 116+46, RT.
486 S.F.	NORWOOD ROAD - STA. 117+10 TO STA. 117+62, RT.

**SIDEWALK RAMP CONSTRUCTION**

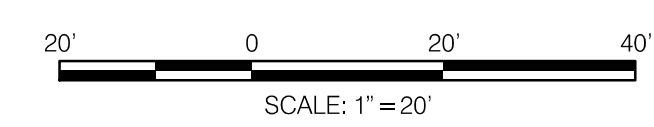
NORWOOD ROAD - STA. 116+40, RT.	MC-112.01
NORWOOD ROAD - STA. 117+24, RT.	MC-112.01

**DETECTABLE WARNING SURFACE FOR CURB RAMPS (MD 655.40)**

23 S.F.	NORWOOD ROAD - STA. 116+40, RT.
45 S.F.	NORWOOD ROAD - STA. 117+24, RT.

**MILLING HOT MIX ASPHALT PAVEMENT PER 1 INCH DEPTH (2 INCHES)**

6050 S.Y.	NORWOOD ROAD - STA. 113+50 TO STA. 118+50, RT.
-----------	--



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**ROADWAY LEGEND**

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	FULL DEPTH PERMEABLE ASPHALT
	CONCRETE SIDEWALK
	POROUS CONCRETE SIDEWALK
	EXISTING SIDEWALK / PAVEMENT REMOVAL

- GENERAL NOTES:**
- EXISTING RIGHT OF WAY LINES ARE BASED ON EXISTING RIGHT OF WAY INFORMATION.
  - FOR PAVEMENT MARKINGS REFER TO SIGNING AND PAVEMENT MARKING PLANS SN-2.1 TO SN-2.6.
  - ALL DIMENSIONS MEASURED TO THE FACE OF THE CURB.

**PROFESSIONAL CERTIFICATION**

I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND. SETH H. DARLINGTON

LICENSE NO.: 39917  
 EXP. DATE: 01/18/2025

**SEAL**  
 STATE OF MARYLAND  
 SETH H. DARLINGTON  
 PROFESSIONAL ENGINEER  
 No. 39917

**30% SUBMITTAL**

DATUM: NAD 83/91 HORIZONTAL  
 NAVD 88 VERTICAL

NO.	REVISION	DATE	BY

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

RECOMMENDED FOR APPROVAL

Chief, Design Section \_\_\_\_\_ DATE \_\_\_\_\_  
 APPROVED

Chief, Division of Engineering Services \_\_\_\_\_ DATE \_\_\_\_\_

DESIGNED BY: L.C.M. DRAWN BY: L.C.M. CHECKED BY: S.H.D.

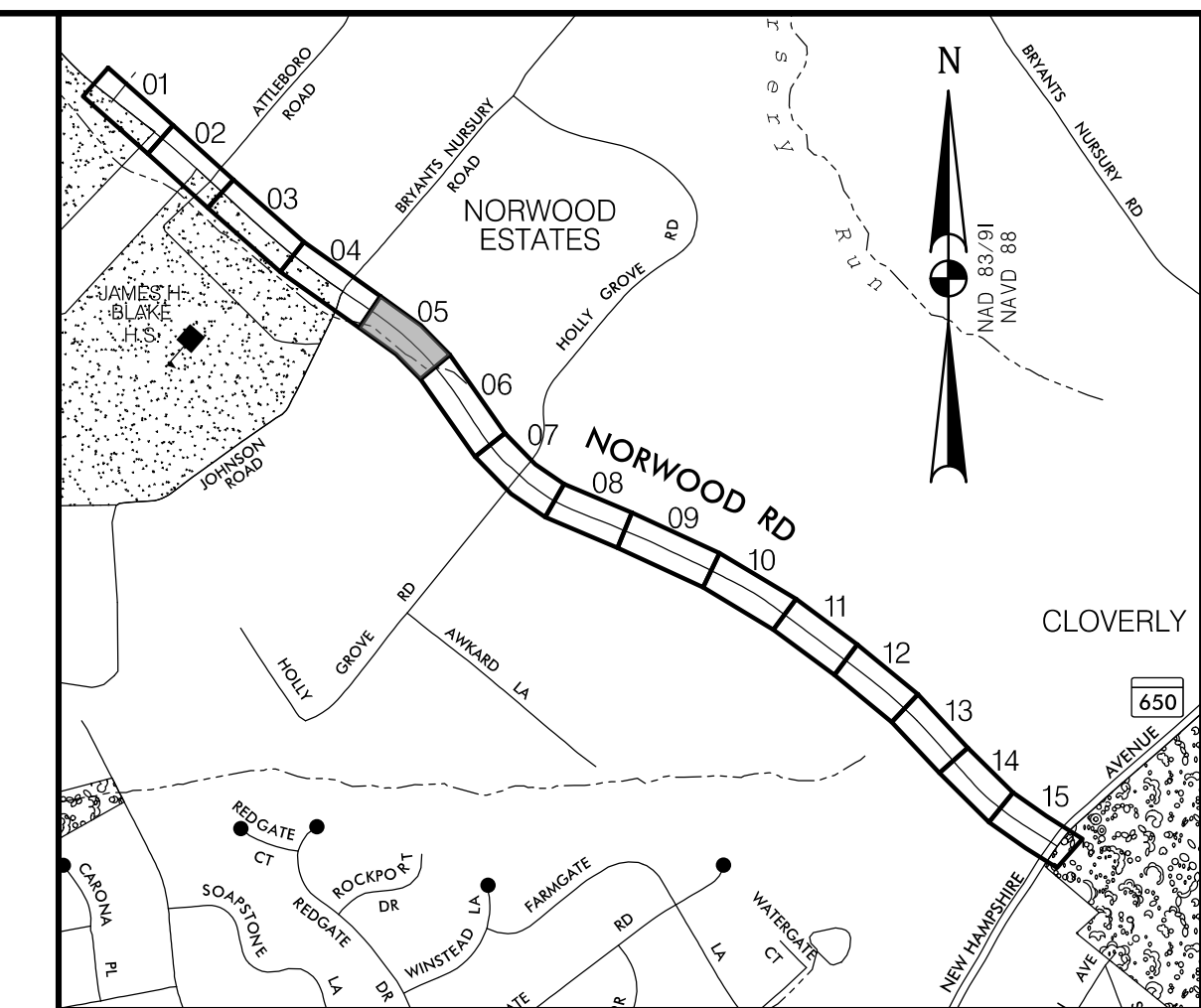
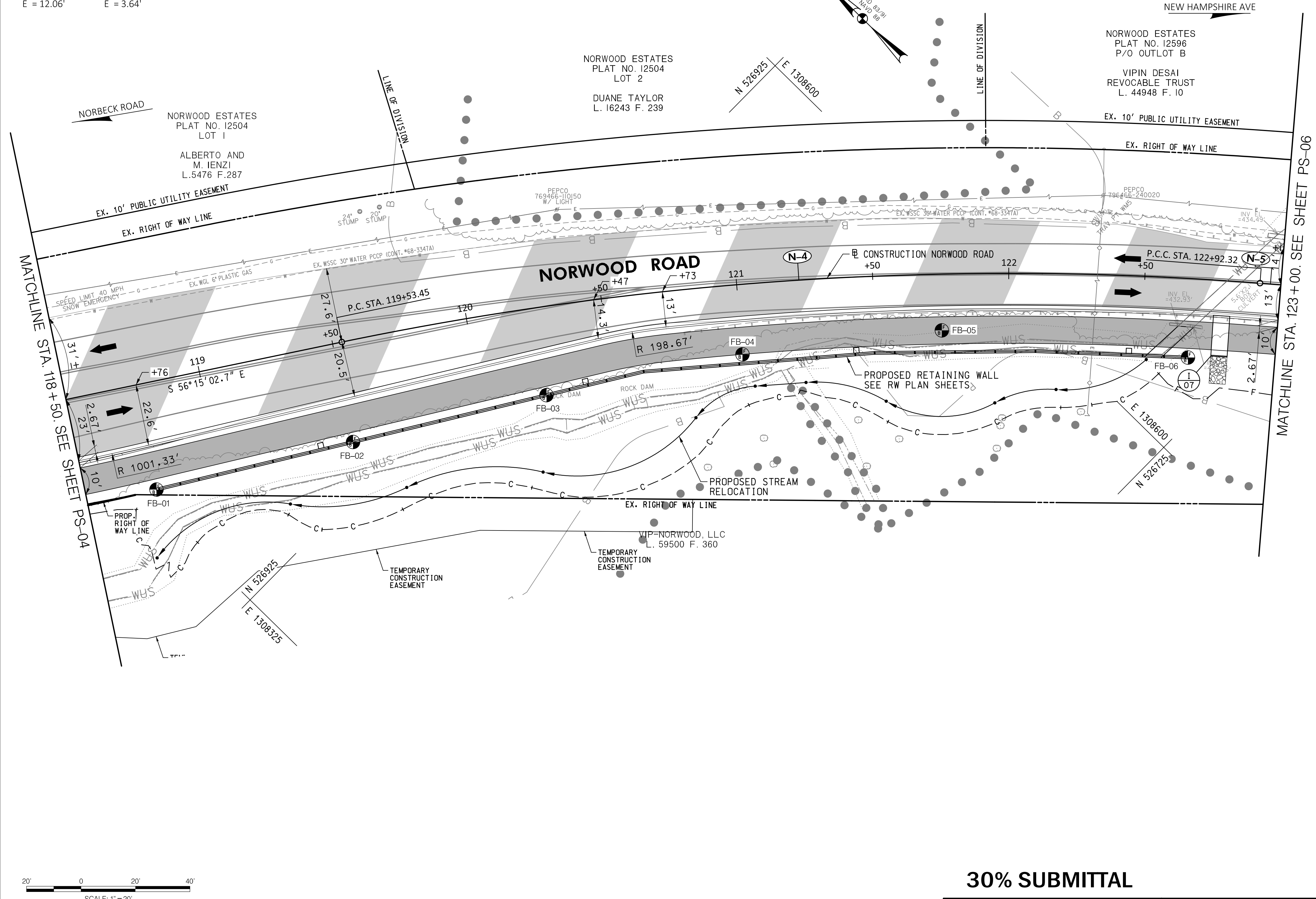
**PLAN SHEET PS-04**  
**ROADWAY PLAN**  
**NORWOOD ROAD**  
**SHARED USE PATH**  
**STA. 113+50 TO STA. 118+50**

SCALE: 1"=20' DATE: JAN, 2024

PROJECT NO.: C.I.P. # PENDING SHEET NO. 27 OF 133

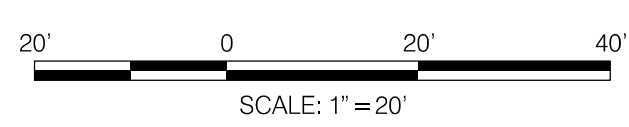
BY: Imaggio

N-4	N-5
<b>CURVE DATA</b>	<b>CURVE DATA</b>
$\Delta = 16^{\circ}10'47.6''$	$\Delta = 6^{\circ}54'43.5''$
$Dc = 4^{\circ}46'28.7''$	$Dc = 2^{\circ}51'53.2''$
$R = 1200.00'$	$R = 2000.00'$
$T = 170.57'$	$T = 120.79'$
$L = 338.87'$	$L = 241.28'$
$E = 12.06'$	$E = 3.64'$



**LOCATION MAP**  
SCALE 1"=1000'

<b>STANDARD MONTGOMERY COUNTY TYPE A COMBINATION CURB AND GUTTER, 16" GUTTER PAN, 8" MIN. DEPTH (MC-100.01)</b>
447 L.F. NORWOOD ROAD - STA. 118+50 TO STA. 123+00, RT.
<b>REMOVAL OF EXISTING PAVEMENT</b>
1 C.Y. NORWOOD ROAD - STA. 118+50 TO STA. 118+89, RT.
<b>REMOVAL AND DISPOSAL OF EXISTING TRAFFIC BARRIER W-BEAM</b>
219 L.F. NORWOOD ROAD - STA. 120+79 TO STA. 123+00, RT.
<b>MILLING HOT MIX ASPHALT PAVEMENT PER 1 INCH DEPTH (2 INCHES)</b>
3808 S.Y. NORWOOD ROAD - STA. 118+50 TO STA. 123+00, RT.



**30% SUBMITTAL**

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**ROADWAY LEGEND**

	FINE MILLING & RESURFACING
	FULL DEPTH ASPHALT
	FULL DEPTH PERMEABLE ASPHALT
	CONCRETE SIDEWALK
	POROUS CONCRETE SIDEWALK
	EXISTING SIDEWALK / PAVEMENT REMOVAL

- GENERAL NOTES:**
- EXISTING RIGHT OF WAY LINES ARE BASED ON EXISTING RIGHT OF WAY INFORMATION.
  - FOR PAVEMENT MARKINGS REFER TO SIGNING AND PAVEMENT MARKING PLANS SN-2.1 TO SN-2.6.
  - ALL DIMENSIONS MEASURED TO THE FACE OF THE CURB.

DATUM: NAD 83/91 HORIZONTAL  
NAVD 88 VERTICAL

PROFESSIONAL CERTIFICATION	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. SETH H. DARLINGTON LICENSE NO.: 39917 EXP. DATE: 01/18/2025	

NO.	REVISION	DATE	BY

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

RECOMMENDED FOR APPROVAL

Chief, Design Section \_\_\_\_\_ DATE \_\_\_\_\_  
APPROVED

Chief, Division of Engineering Services \_\_\_\_\_ DATE \_\_\_\_\_

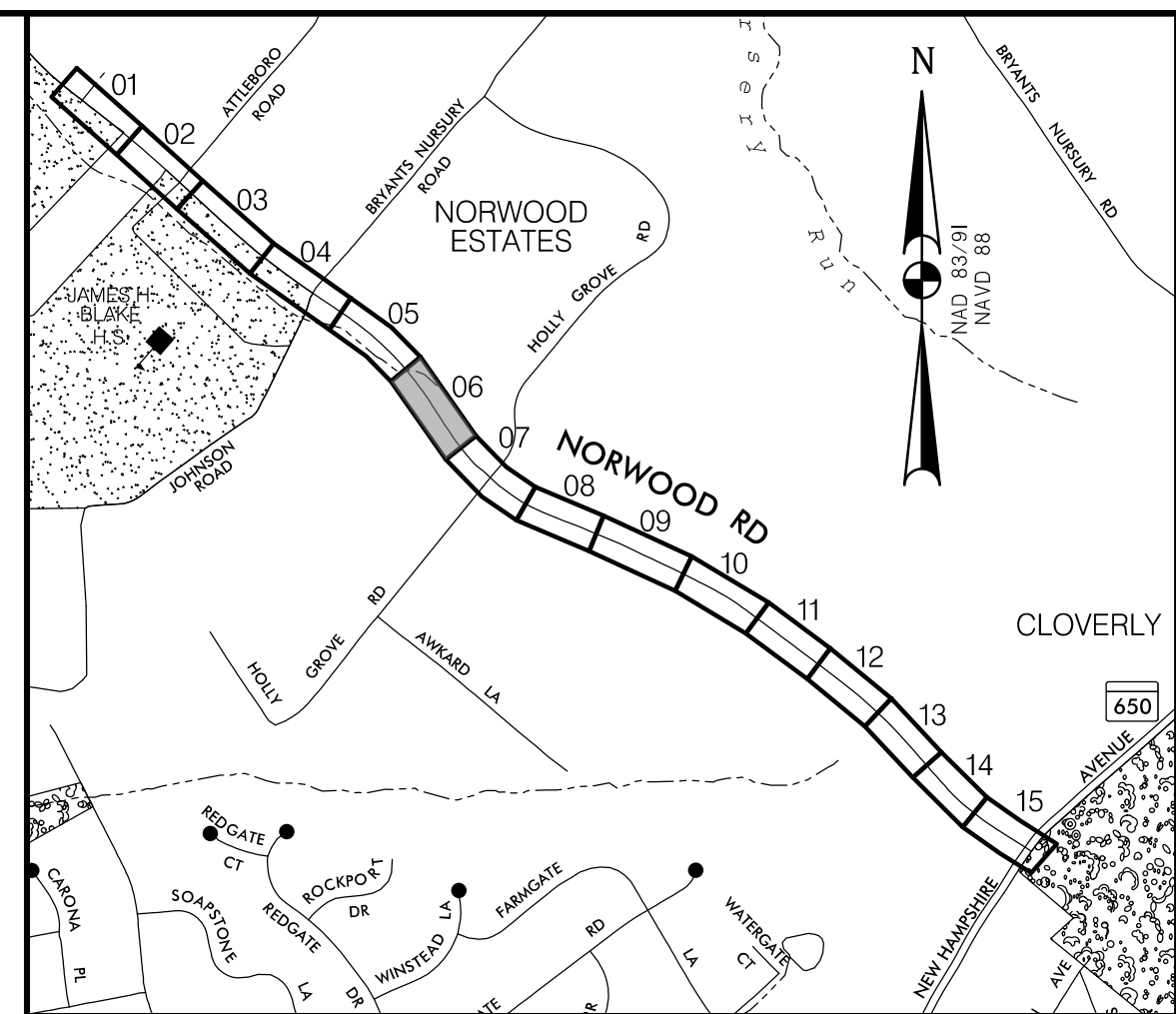
DESIGNED BY: L.C.M. DRAWN BY: L.C.M. CHECKED BY: S.H.D.

**PLAN SHEET PS-05  
ROADWAY PLAN  
NORWOOD ROAD  
SHARED USE PATH  
STA. 118+50 TO STA. 123+00**

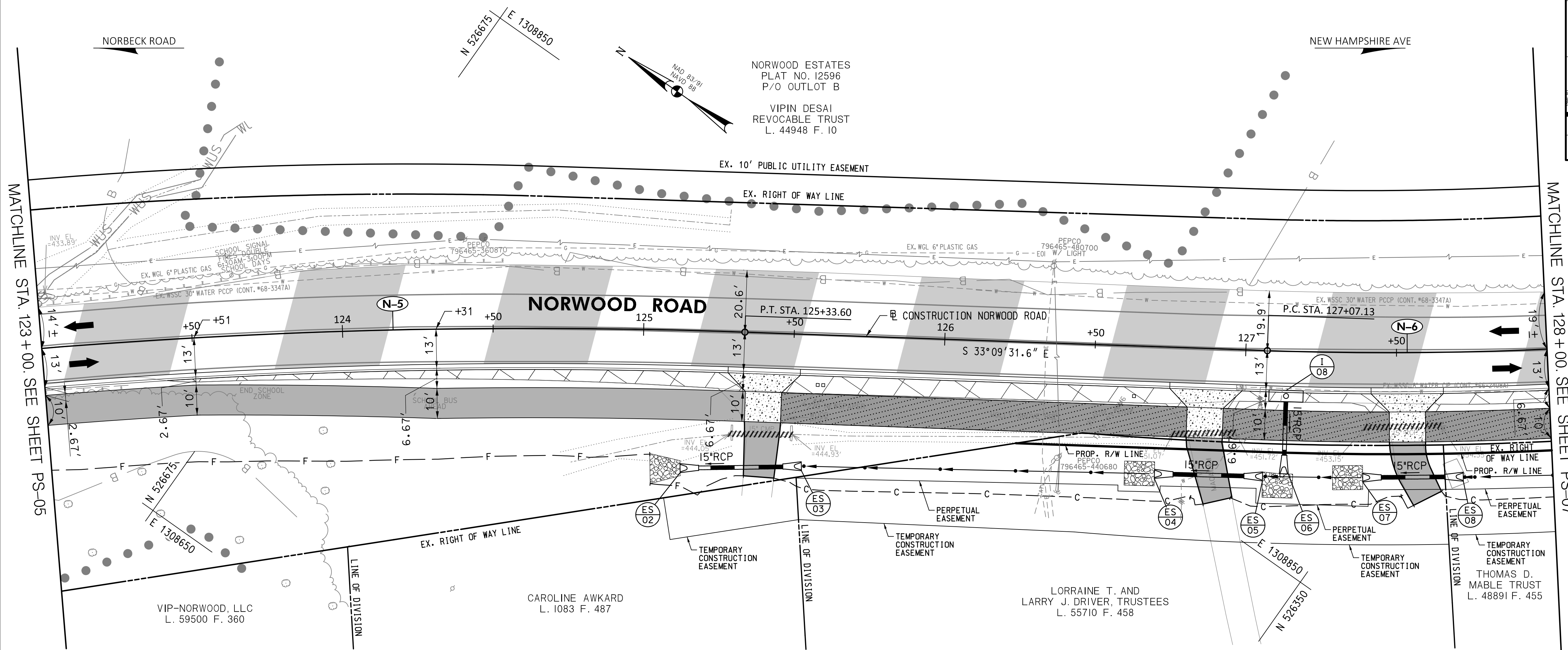
SCALE: 1"=20' DATE: JAN, 2024

PROJECT NO.: C.I.P.# PENDING SHEET NO. 28 OF 133

N-5	N-6
<b>CURVE DATA</b>	<b>CURVE DATA</b>
$\Delta = 6^{\circ}54'43.5''$	$\Delta = 35^{\circ}28'40.9''$
$Dc = 2^{\circ}51'53.2''$	$Dc = 5^{\circ}04'06.0''$
$R = 2000.00'$	$R = 1130.46'$
$T = 120.79'$	$T = 361.63'$
$L = 241.28'$	$L = 699.99'$
$E = 3.64'$	$E = 56.43'$



**LOCATION MAP**  
SCALE 1"=1000'



**STANDARD MONTGOMERY COUNTY TYPE A COMBINATION CURB AND GUTTER, 16" GUTTER PAN, 8" MIN. DEPTH (MC-100.01)**

227 L.F.	NORWOOD ROAD - STA. 123+00 TO STA. 125+28, RT.
123 L.F.	NORWOOD ROAD - STA. 125+52 TO STA. 126+75, RT.
43 L.F.	NORWOOD ROAD - STA. 127+00 TO STA. 127+42, RT.
35 L.F.	NORWOOD ROAD - STA. 127+65 TO STA. 128+00, RT.

**DEPRESSED CURB ENTRANCE (MC-102.01)**

24 L.F.	NORWOOD ROAD - STA. 125+28 TO STA. 125+52, RT.
24 L.F.	NORWOOD ROAD - STA. 126+75 TO STA. 127+00, RT.
24 L.F.	NORWOOD ROAD - STA. 127+42 TO STA. 127+65, RT.

**7 INCH PORTLAND CEMENT CONCRETE PAVEMENT FOR RESIDENTIAL DRIVEWAY MIX NO. 9 (MC-301.01)**

228 S.F.	NORWOOD ROAD - STA. 125+28 TO STA. 125+52, RT.
228 S.F.	NORWOOD ROAD - STA. 126+75 TO STA. 127+00, RT.
228 S.F.	NORWOOD ROAD - STA. 127+42 TO STA. 127+65, RT.

**REMOVAL OF EXISTING PAVEMENT**

21 C.Y.	NORWOOD ROAD - STA. 123+41 TO STA. 125+34, RT.
27 C.Y.	NORWOOD ROAD - STA. 125+46 TO STA. 126+81, RT.
7 C.Y.	NORWOOD ROAD - STA. 126+93 TO STA. 127+48, RT.
6 C.Y.	NORWOOD ROAD - STA. 127+59 TO STA. 128+00, RT.

**REMOVAL OF EXISTING MASONRY**

1 C.Y.	NORWOOD ROAD - STA. 125+30, RT.
1 C.Y.	NORWOOD ROAD - STA. 125+51, RT.
1 C.Y.	NORWOOD ROAD - STA. 127+40, RT.
1 C.Y.	NORWOOD ROAD - STA. 127+64, RT.

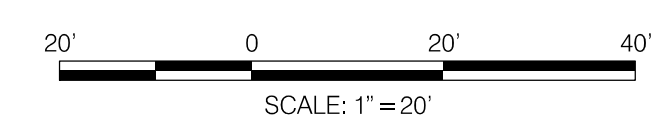
**REMOVAL OF EXISTING PIPE**

21 L.F.	NORWOOD ROAD - STA. 125+30 TO STA. 125+51, RT.
21 L.F.	NORWOOD ROAD - STA. 126+77 TO STA. 126+97, RT.
25 L.F.	NORWOOD ROAD - STA. 127+40 TO STA. 127+64, RT.

**REMOVAL AND DISPOSAL OF EXISTING TRAFFIC BARRIER W-BEAM**

28 L.F.	NORWOOD ROAD - STA. 123+00 TO STA. 123+28, RT.
---------	--

**MILLING HOT MIX ASPHALT PAVEMENT PER 1 INCH DEPTH (2 INCHES)**  
3474 S.Y. NORWOOD ROAD - STA. 123+00 TO STA. 128+00, RT.



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10150 York Road, Suite 200  
Hunt Valley, Maryland 21030  
410.494.9093 Tel / 410.667.0925 Fax  
www.WallaceMontgomery.com

**ROADWAY LEGEND**

[Symbol]	FINE MILLING & RESURFACING
[Symbol]	FULL DEPTH ASPHALT
[Symbol]	FULL DEPTH PERMEABLE ASPHALT
[Symbol]	CONCRETE SIDEWALK
[Symbol]	POROUS CONCRETE SIDEWALK
[Symbol]	EXISTING SIDEWALK / PAVEMENT REMOVAL

- GENERAL NOTES:**
- EXISTING RIGHT OF WAY LINES ARE BASED ON EXISTING RIGHT OF WAY INFORMATION.
  - FOR PAVEMENT MARKINGS REFER TO SIGNING AND PAVEMENT MARKING PLANS SN-2.1 TO SN-2.6.
  - ALL DIMENSIONS MEASURED TO THE FACE OF THE CURB.

DATUM: NAD 83/91 HORIZONTAL  
NAVD 88 VERTICAL

PROFESSIONAL CERTIFICATION

I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND. SETH H. DARLINGTON

LICENSE NO.: 39917  
EXP. DATE: 01/18/2025

STATE OF MARYLAND  
SETH H. DARLINGTON  
No. 39917  
PROFESSIONAL ENGINEER

**30% SUBMITTAL**

NO.	REVISION	DATE	BY

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

RECOMMENDED FOR APPROVAL

Chief, Design Section DATE

APPROVED

Chief, Division of Engineering Services DATE

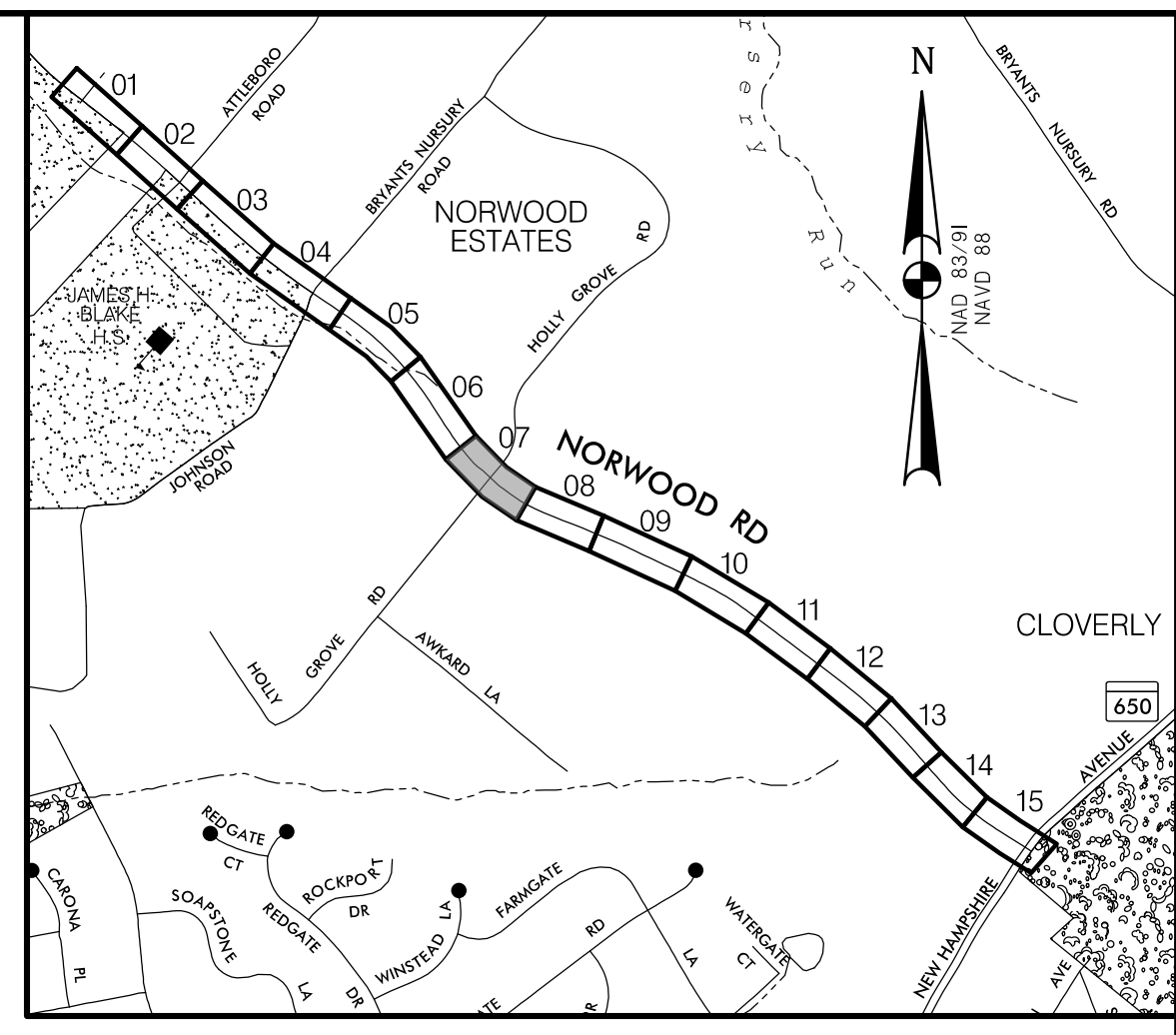
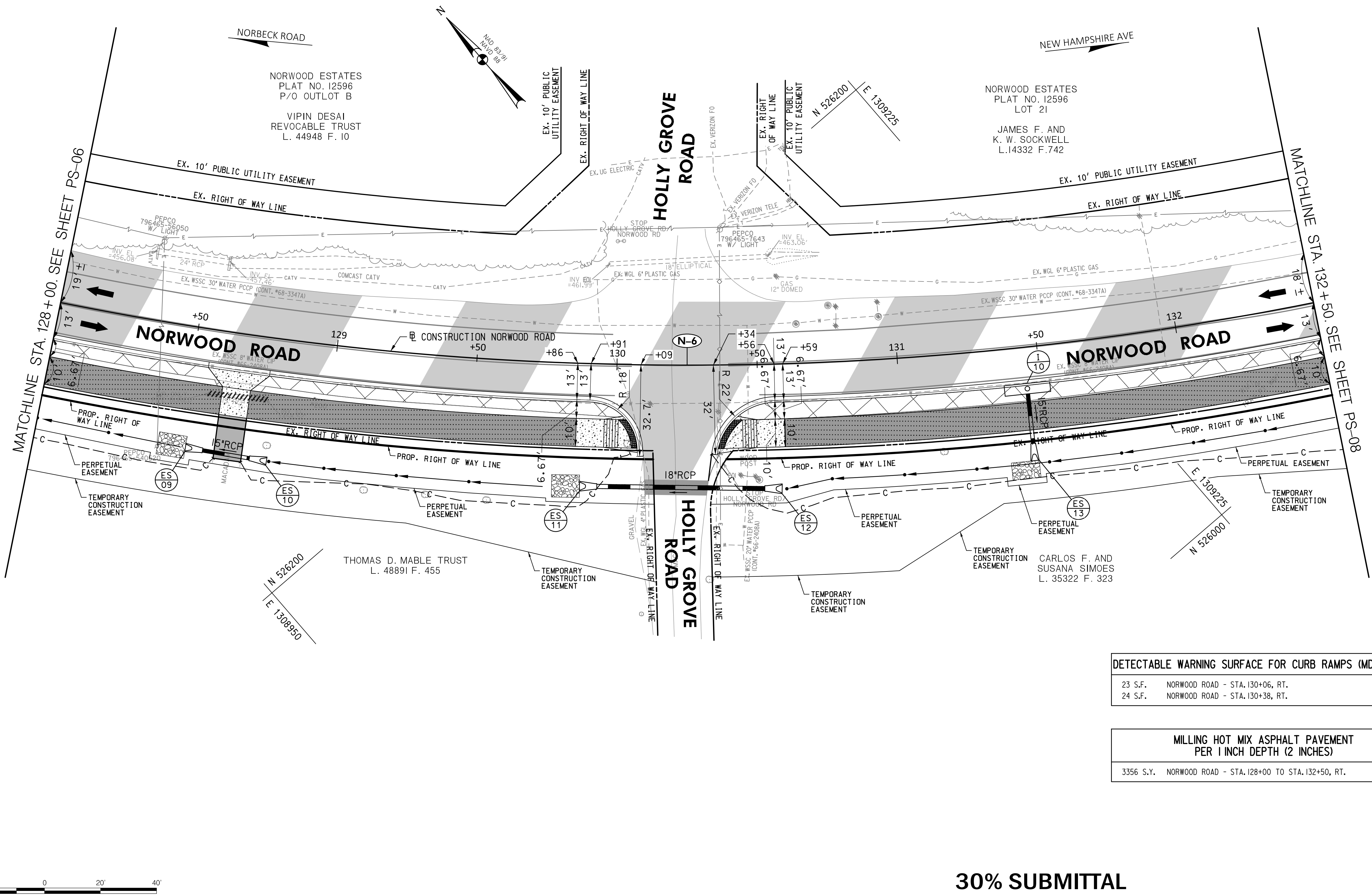
DESIGNED BY: L.C.M. DRAWN BY: L.C.M. CHECKED BY: S.H.D.

**PLAN SHEET PS-06**  
**ROADWAY PLAN**  
**NORWOOD ROAD**  
**SHARED USE PATH**  
**STA. 123+00 TO STA. 128+00**

SCALE: 1"=20' DATE: JAN, 2024

PROJECT NO.: C.I.P. # PENDING SHEET NO. 29 OF 133

**(N-6)**  
 CURVE DATA  
 $\Delta = 35^{\circ}28'40.9''$   
 $Dc = 5^{\circ}04'06.0''$   
 $R = 1130.46'$   
 $T = 361.63'$   
 $L = 699.99'$   
 $E = 56.43'$



**LOCATION MAP**  
 SCALE 1"=1000'

**STANDARD MONTGOMERY COUNTY TYPE A COMBINATION CURB AND GUTTER, 16\"/>**

57 L.F.	NORWOOD ROAD - STA. 128+00 TO STA. 128+56, RT.
129 L.F.	NORWOOD ROAD - STA. 128+77 TO STA. 130+02, RT.
212 L.F.	NORWOOD ROAD - STA. 130+43 TO STA. 132+50, RT.

**DEPRESSED CURB ENTRANCE (MC-102.01)**

22 L.F.	NORWOOD ROAD - STA. 128+56 TO STA. 128+77, RT.
17 L.F.	NORWOOD ROAD - STA. 130+02 TO STA. 130+09, RT.
15 L.F.	NORWOOD ROAD - STA. 130+34 TO STA. 130+43, RT.

**7 INCH PORTLAND CEMENT CONCRETE PAVEMENT FOR RESIDENTIAL DRIVEWAY MIX NO. 9 (MC-301.01)**

196 S.F.	NORWOOD ROAD - STA. 128+56 TO STA. 128+77, RT.
----------	--

**REMOVAL OF EXISTING PAVEMENT**

9 C.Y.	NORWOOD ROAD - STA. 128+00 TO STA. 128+56, RT.
19 C.Y.	NORWOOD ROAD - STA. 128+77 TO STA. 130+03, RT.
42 C.Y.	NORWOOD ROAD - STA. 130+43 TO STA. 132+50, RT.

**REMOVAL OF EXISTING MASONRY**

1 C.Y.	NORWOOD ROAD - STA. 128+77, RT.
--------	---------------------------------

**REMOVAL OF EXISTING PIPE**

21 L.F.	NORWOOD ROAD - STA. 128+58 TO STA. 128+77, RT.
---------	--

**4 INCH CONCRETE SIDEWALK**

220 S.F.	NORWOOD ROAD - STA. 129+86 TO STA. 130+08, RT.
234 S.F.	NORWOOD ROAD - STA. 130+36 TO STA. 130+59, RT.

**SIDEWALK RAMP CONSTRUCTION**

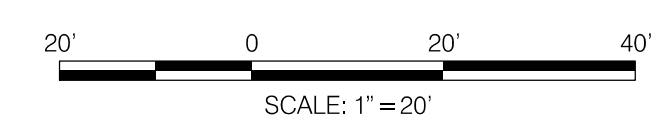
NORWOOD ROAD - STA. 130+06, RT.	MC-112.01
NORWOOD ROAD - STA. 130+38, RT.	MC-112.01

**DETECTABLE WARNING SURFACE FOR CURB RAMPS (MD 655.40)**

23 S.F.	NORWOOD ROAD - STA. 130+06, RT.
24 S.F.	NORWOOD ROAD - STA. 130+38, RT.

**MILLING HOT MIX ASPHALT PAVEMENT PER 1 INCH DEPTH (2 INCHES)**

3356 S.Y.	NORWOOD ROAD - STA. 128+00 TO STA. 132+50, RT.
-----------	--



**ROADWAY LEGEND**

	FINE MILLING & RESURFACING
	FULL DEPTH ASPHALT
	FULL DEPTH PERMEABLE ASPHALT
	CONCRETE SIDEWALK
	POROUS CONCRETE SIDEWALK
	EXISTING SIDEWALK /PAVEMENT REMOVAL

- GENERAL NOTES:**
- EXISTING RIGHT OF WAY LINES ARE BASED ON EXISTING RIGHT OF WAY INFORMATION.
  - FOR PAVEMENT MARKINGS REFER TO SIGNING AND PAVEMENT MARKING PLANS SN-2.1 TO SN-2.6.
  - ALL DIMENSIONS MEASURED TO THE FACE OF THE CURB.

DATUM: NAD 83/91 HORIZONTAL  
 NAVD 88 VERTICAL

**PROFESSIONAL CERTIFICATION**

I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND. SETH H. DARLINGTON

LICENSE NO.: 39917  
 EXP. DATE: 01/18/2025

**SEAL**

STATE OF MARYLAND  
 SETH H. DARLINGTON  
 No. 39917  
 PROFESSIONAL ENGINEER

NO.	REVISION	DATE	BY

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

RECOMMENDED FOR APPROVAL

Chief, Design Section \_\_\_\_\_ DATE \_\_\_\_\_  
 APPROVED

Chief, Division of Engineering Services \_\_\_\_\_ DATE \_\_\_\_\_

DESIGNED BY: L.C.M. DRAWN BY: L.C.M. CHECKED BY: S.H.D.

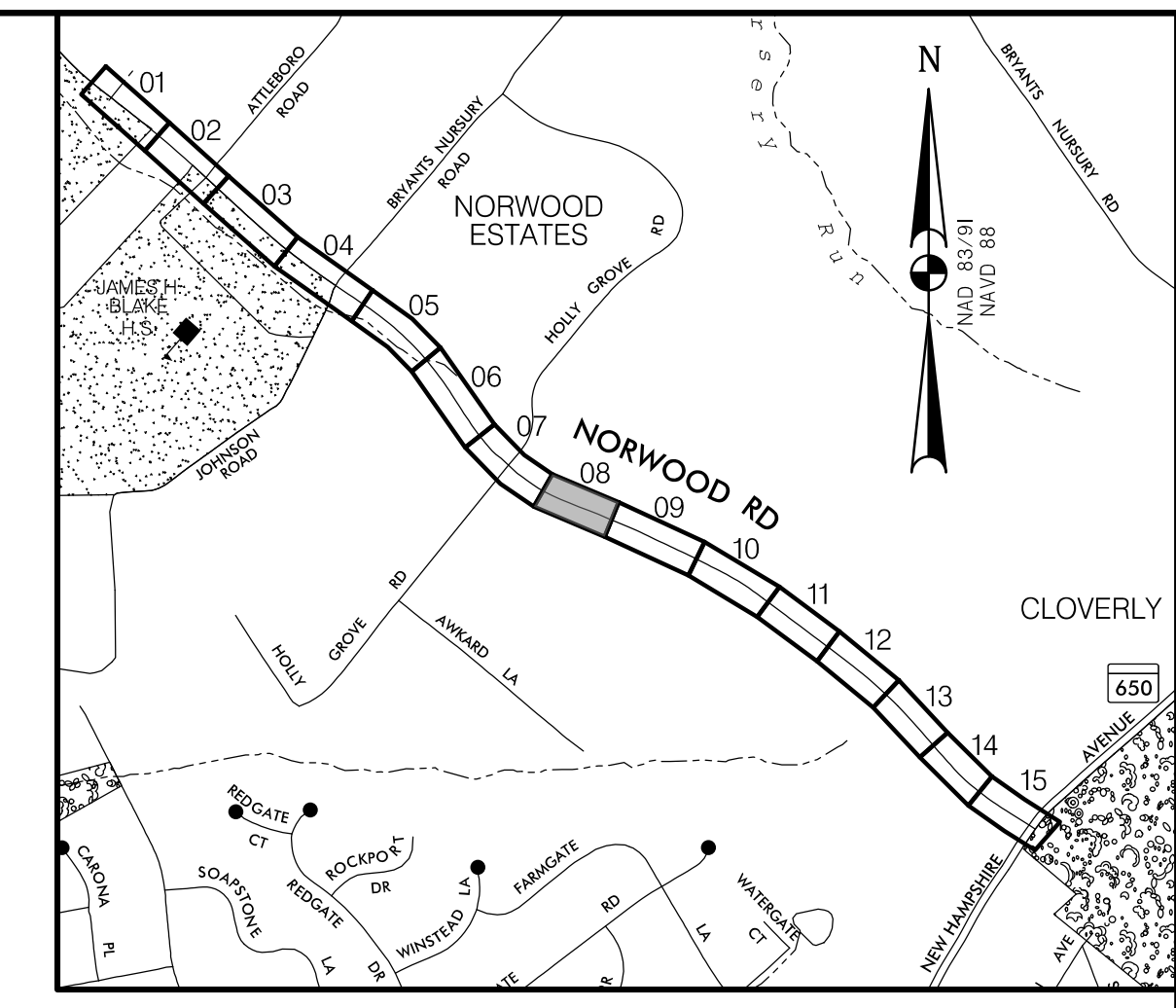
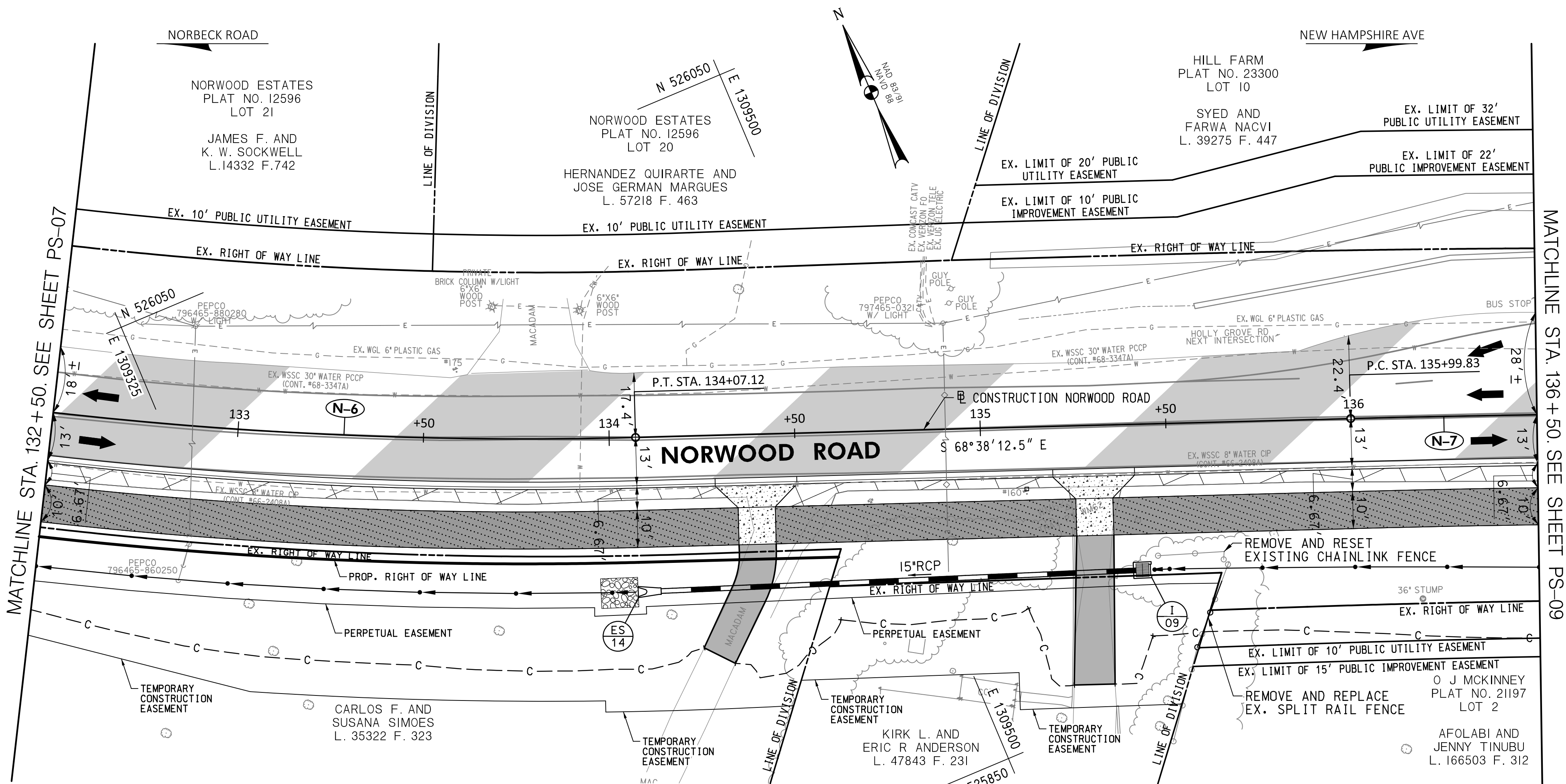
**PLAN SHEET PS-07  
 ROADWAY PLAN  
 NORWOOD ROAD  
 SHARED USE PATH  
 STA. 128+00 TO STA. 132+50**

SCALE: 1"=20' DATE: JAN, 2024

PROJECT NO.: C.I.P. # PENDING SHEET NO. 30 OF 133

BY: Imaggio

N-6	N-7
<b>CURVE DATA</b>	<b>CURVE DATA</b>
Δ = 35°28'40.9"	Δ = 4°27'13.5"
Dc = 5°04'06.0"	Dc = 1°21'36.9"
R = 1130.46'	R = 4212.15'
T = 361.63'	T = 163.79'
L = 699.99'	L = 327.42'
E = 56.43'	E = 3.18'



**LOCATION MAP**  
SCALE 1"=1000'

**STANDARD MONTGOMERY COUNTY TYPE A COMBINATION CURB AND GUTTER, 16" GUTTER PAN, 8" MIN. DEPTH (MC-100.01)**

180 L.F.	NORWOOD ROAD - STA. 132+50 TO STA. 134+28, RT.
69 L.F.	NORWOOD ROAD - STA. 134+50 TO STA. 135+19, RT.
109 L.F.	NORWOOD ROAD - STA. 135+41 TO STA. 136+50, RT.

**DEPRESSED CURB ENTRANCE (MC-102.01)**

22 L.F.	NORWOOD ROAD - STA. 134+28 TO STA. 134+50, RT.
22 L.F.	NORWOOD ROAD - STA. 135+19 TO STA. 135+41, RT.

**7 INCH PORTLAND CEMENT CONCRETE PAVEMENT FOR RESIDENTIAL DRIVEWAY MIX NO. 9 (MC-301.01)**

196 S.F.	NORWOOD ROAD - STA. 134+28 TO STA. 134+50, RT.
196 S.F.	NORWOOD ROAD - STA. 135+19 TO STA. 135+41, RT.

**REMOVAL OF EXISTING PAVEMENT**

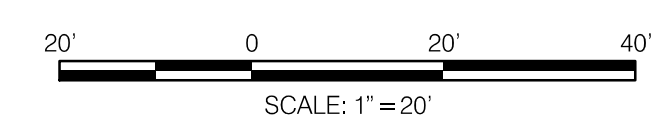
25 C.Y.	NORWOOD ROAD - STA. 132+50 TO STA. 134+31, RT.
9 C.Y.	NORWOOD ROAD - STA. 134+44 TO STA. 135+22, RT.
14 C.Y.	NORWOOD ROAD - STA. 135+38 TO STA. 136+50, RT.

**REMOVE & RESET/RELOCATE EXISTING MAIL BOX (ANY SIZE, ANY TYPE)**

1 EA.	NORWOOD ROAD - STA. 135+12, RT.
-------	---------------------------------

**MILLING HOT MIX ASPHALT PAVEMENT PER 1 INCH DEPTH (2 INCHES)**

3893 S.Y.	NORWOOD ROAD - STA. 132+50 TO STA. 136+50, RT.
-----------	--



**30% SUBMITTAL**

**WALLACE MONTGOMERY**  
ENGINEERS-PLANNERS-SURVEYORS-CONSTRUCTION MANAGERS  
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Hunt Valley, Maryland 21030  
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**ROADWAY LEGEND**

- FINE MILLING & RESURFACING
- FULL DEPTH ASPHALT
- FULL DEPTH PERMEABLE ASPHALT
- CONCRETE SIDEWALK
- POROUS CONCRETE SIDEWALK
- EXISTING SIDEWALK / PAVEMENT REMOVAL

- GENERAL NOTES:**
- EXISTING RIGHT OF WAY LINES ARE BASED ON EXISTING RIGHT OF WAY INFORMATION.
  - FOR PAVEMENT MARKINGS REFER TO SIGNING AND PAVEMENT MARKING PLANS SN-2.1 TO SN-2.6.
  - ALL DIMENSIONS MEASURED TO THE FACE OF THE CURB.

DATUM: NAD 83/91 HORIZONTAL  
NAVD 88 VERTICAL

PROFESSIONAL CERTIFICATION

I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND. SETH H. DARLINGTON

LICENSE NO.: 39917  
EXP. DATE: 01/18/2025

SEAL  
STATE OF MARYLAND  
SETH H. DARLINGTON  
No. 39917  
PROFESSIONAL ENGINEER

NO.	REVISION	DATE	BY

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

RECOMMENDED FOR APPROVAL

Chief, Design Section \_\_\_\_\_ DATE \_\_\_\_\_  
APPROVED

Chief, Division of Engineering Services \_\_\_\_\_ DATE \_\_\_\_\_

DESIGNED BY: L.C.M. DRAWN BY: L.C.M. CHECKED BY: S.H.D.

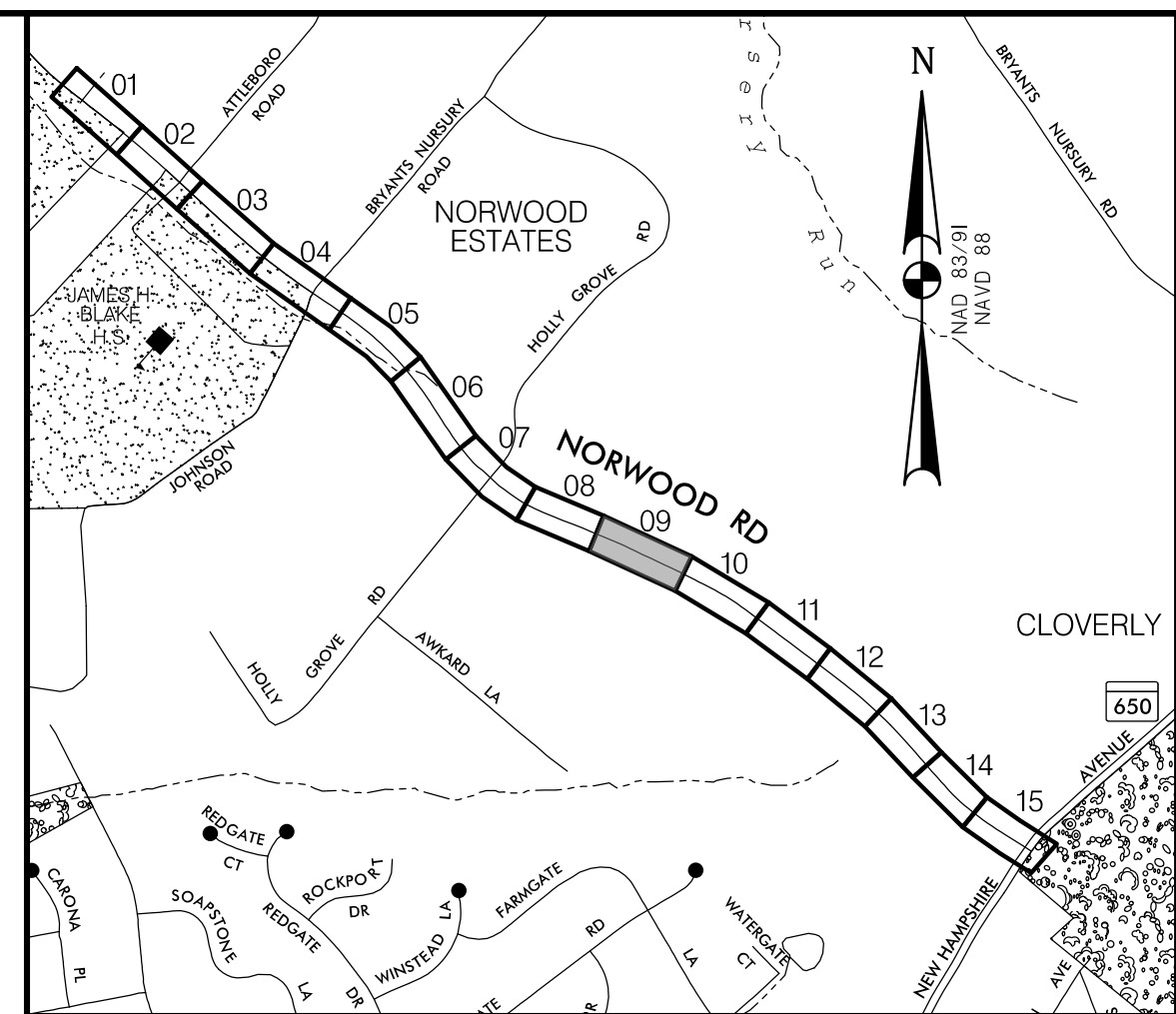
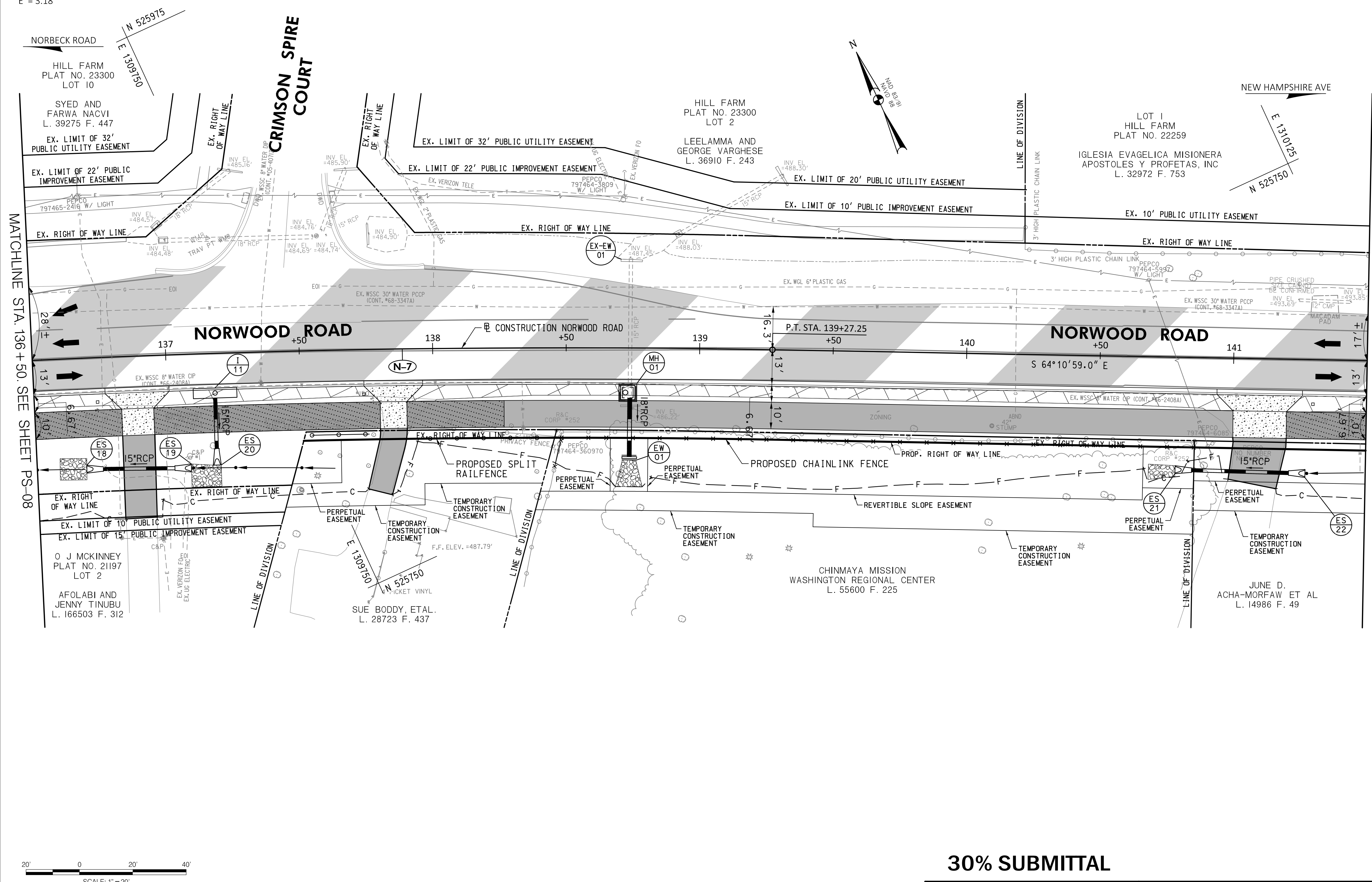
**PLAN SHEET PS-08  
ROADWAY PLAN  
NORWOOD ROAD  
SHARED USE PATH  
STA. 132+50 TO STA. 136+50**

SCALE: 1"=20' DATE: JAN, 2024

PROJECT NO.: C.I.P. # PENDING SHEET NO. 31 OF 133

BY: Imaggio

**N-7**  
 CURVE DATA  
 $\Delta = 4^{\circ}27'13.5''$   
 $D_c = 1'21'36.9''$   
 $R = 4212.15'$   
 $T = 163.79'$   
 $L = 327.42'$   
 $E = 3.18'$



**STANDARD MONTGOMERY COUNTY TYPE A COMBINATION CURB AND GUTTER, 16" GUTTER PAN, 8" MIN. DEPTH (MC-100.01)**

27 L.F. NORWOOD ROAD - STA. 136+50 TO STA. 136+77, RT.  
 73 L.F. NORWOOD ROAD - STA. 137+01 TO STA. 137+74, RT.  
 298 L.F. NORWOOD ROAD - STA. 137+96 TO STA. 140+94, RT.  
 24 L.F. NORWOOD ROAD - STA. 141+26 TO STA. 141+50, RT.

**DEPRESSED CURB ENTRANCE (MC-102.01)**

24 L.F. NORWOOD ROAD - STA. 136+77 TO STA. 137+01, RT.  
 22 L.F. NORWOOD ROAD - STA. 137+74 TO STA. 137+96, RT.  
 32 L.F. NORWOOD ROAD - STA. 140+94 TO STA. 141+26, RT.

**7 INCH PORTLAND CEMENT CONCRETE PAVEMENT FOR RESIDENTIAL DRIVEWAY MIX NO. 9 (MC-301.01)**

228 S.F. NORWOOD ROAD - STA. 136+77 TO STA. 137+01, RT.  
 196 S.F. NORWOOD ROAD - STA. 137+74 TO STA. 137+96, RT.  
 356 S.F. NORWOOD ROAD - STA. 140+94 TO STA. 141+26, RT.

**REMOVAL OF EXISTING PAVEMENT**

5 C.Y. NORWOOD ROAD - STA. 136+50 TO STA. 136+83, RT.  
 13 C.Y. NORWOOD ROAD - STA. 136+95 TO STA. 137+80, RT.  
 51 C.Y. NORWOOD ROAD - STA. 137+90 TO STA. 141+00, RT.  
 6 C.Y. NORWOOD ROAD - STA. 141+20 TO STA. 141+50, RT.

**REMOVAL OF EXISTING MASONRY**

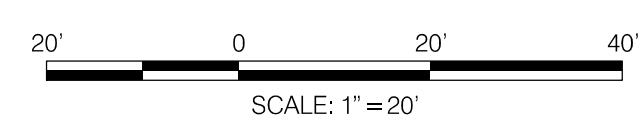
1 C.Y. NORWOOD ROAD - STA. 138+74 (EX. ENDWALL)

**REMOVE & RESET/RELOCATE EXISTING MAIL BOX (ANY SIZE, ANY TYPE)**

1 EA. NORWOOD ROAD - STA. 136+74, RT.  
 1 EA. NORWOOD ROAD - STA. 137+74, RT.  
 1 EA. NORWOOD ROAD - STA. 141+30, RT.

**MILLING HOT MIX ASPHALT PAVEMENT PER 1 INCH DEPTH (2 INCHES)**

3893 S.Y. NORWOOD ROAD - STA. 132+50 TO STA. 136+50, RT.



**30% SUBMITTAL**

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- FULL DEPTH PERMEABLE ASPHALT
- CONCRETE SIDEWALK
- POROUS CONCRETE SIDEWALK
- EXISTING SIDEWALK / PAVEMENT REMOVAL

**GENERAL NOTES:**

- EXISTING RIGHT OF WAY LINES ARE BASED ON EXISTING RIGHT OF WAY INFORMATION.
- FOR PAVEMENT MARKINGS REFER TO SIGNING AND PAVEMENT MARKING PLANS SN-2.1 TO SN-2.6.
- ALL DIMENSIONS MEASURED TO THE FACE OF THE CURB.

DATUM: NAD 83/91 HORIZONTAL  
 NAVD 88 VERTICAL

PROFESSIONAL CERTIFICATION

I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND. SETH H. DARLINGTON

LICENSE NO.: 39917  
 EXP. DATE: 01/18/2025

SEAL

STATE OF MARYLAND  
 SETH H. DARLINGTON  
 No. 39917  
 PROFESSIONAL ENGINEER

NO.	REVISION	DATE	BY

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

RECOMMENDED FOR APPROVAL

Chief, Design Section DATE

APPROVED

Chief, Division of Engineering Services DATE

DESIGNED BY: L.C.M. DRAWN BY: L.C.M. CHECKED BY: S.H.D.

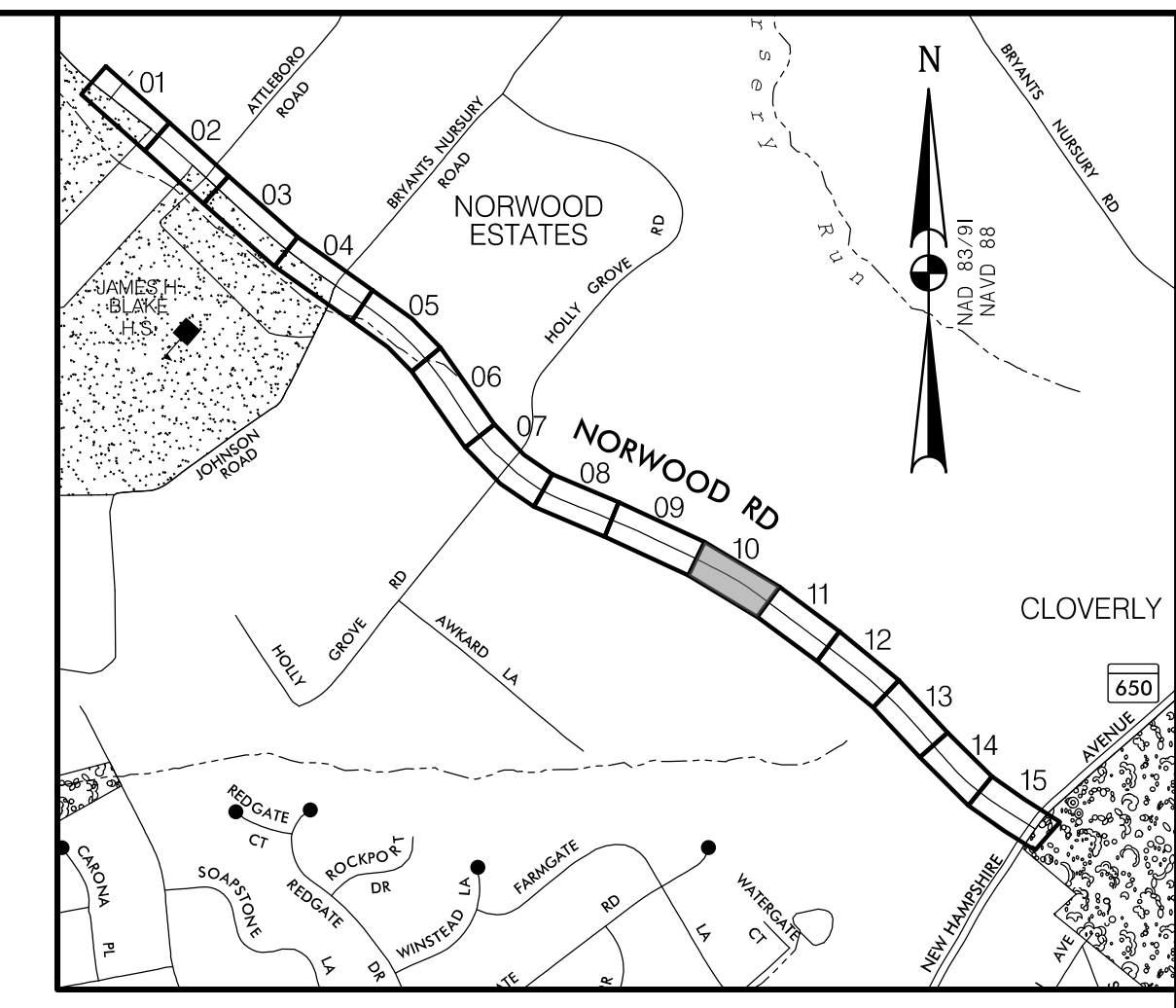
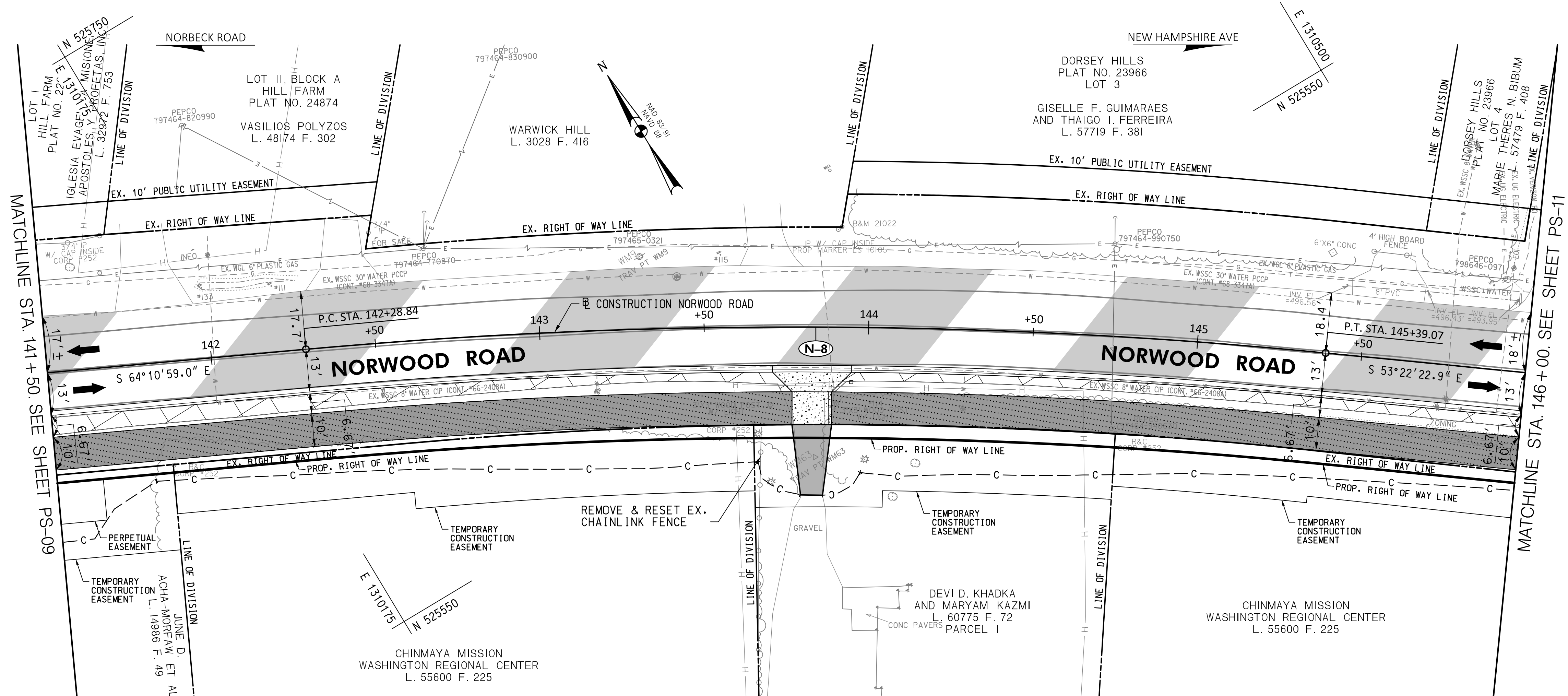
**PLAN SHEET PS-09  
 ROADWAY PLAN  
 NORWOOD ROAD  
 SHARED USE PATH  
 STA. 136+50 TO STA. 141+50**

SCALE: 1" = 20' DATE: JAN, 2024

PROJECT NO.: C.I.P. # PENDING SHEET NO. 32 OF 133



**(N-8)**  
 CURVE DATA  
 $\Delta = 10^\circ 48' 36.0''$   
 $Dc = 3^\circ 29' 04.6''$   
 $R = 1644.25'$   
 $T = 155.57'$   
 $L = 310.22'$   
 $E = 7.34'$



**LOCATION MAP**  
 SCALE 1"=1000'

STANDARD MONTGOMERY COUNTY TYPE A COMBINATION CURB AND GUTTER, 16" GUTTER PAN, 8" MIN. DEPTH (MC-100.01)

220 L.F. NORWOOD ROAD - STA. 141+50 TO STA. 143+71, RT.  
 204 L.F. NORWOOD ROAD - STA. 143+95 TO STA. 146+00, RT.

DEPRESSED CURB ENTRANCE (MC-102.01)

24 L.F. NORWOOD ROAD - STA. 143+71 TO STA. 143+95, RT.

7 INCH PORTLAND CEMENT CONCRETE PAVEMENT FOR RESIDENTIAL DRIVEWAY MIX NO. 9 (MC-301.01)

228 S.F. NORWOOD ROAD - STA. 143+71 TO STA. 143+95, RT.

REMOVAL OF EXISTING PAVEMENT

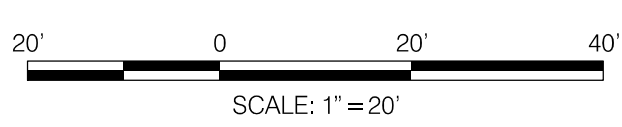
33 C.Y. NORWOOD ROAD - STA. 141+50 TO STA. 143+76, RT.  
 23 C.Y. NORWOOD ROAD - STA. 143+89 TO STA. 146+00, RT.

REMOVE & RESET/RELOCATE EXISTING MAIL BOX (ANY SIZE, ANY TYPE)

1 EA. NORWOOD ROAD - STA. 143+95, RT.

MILLING HOT MIX ASPHALT PAVEMENT PER 1 INCH DEPTH (2 INCHES)

2980 S.Y. NORWOOD ROAD - STA. 141+50 TO STA. 146+00, RT.



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	FULL DEPTH PERMEABLE ASPHALT
	CONCRETE SIDEWALK
	POROUS CONCRETE SIDEWALK
	EXISTING SIDEWALK / PAVEMENT REMOVAL

- GENERAL NOTES:**
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  - FOR PAVEMENT MARKINGS REFER TO SIGNING AND PAVEMENT MARKING PLANS SN-2.1 TO SN-2.6.
  - ALL DIMENSIONS MEASURED TO THE FACE OF THE CURB.

DATUM: NAD 83/91 HORIZONTAL  
 NAVD 88 VERTICAL

PROFESSIONAL CERTIFICATION	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. SETH H. DARLINGTON	
LICENSE NO.: 39917	
EXP. DATE: 01/18/2025	

**30% SUBMITTAL**

NO.	REVISION	DATE	BY

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

RECOMMENDED FOR APPROVAL

Chief, Design Section DATE \_\_\_\_\_  
 APPROVED

Chief, Division of Engineering Services DATE \_\_\_\_\_

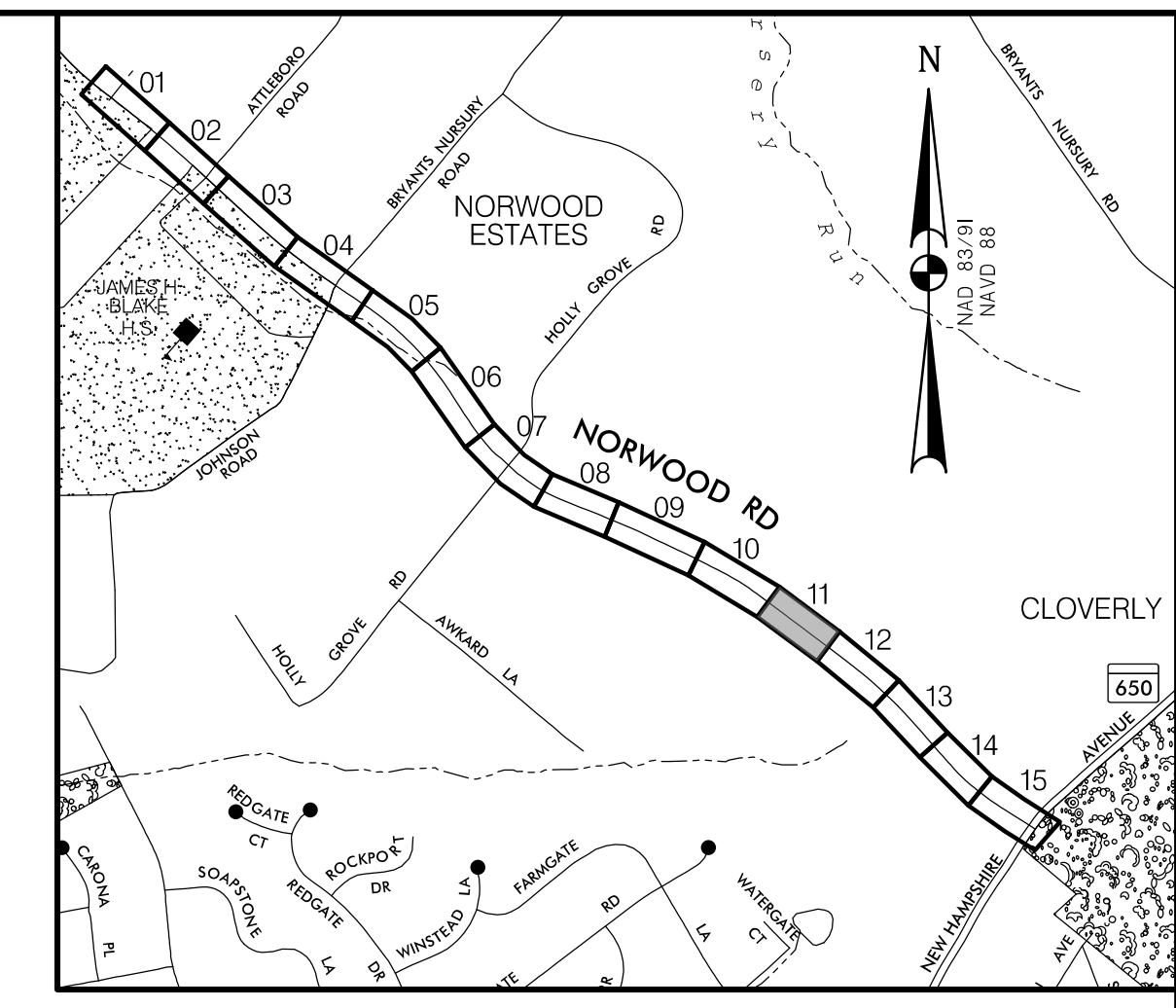
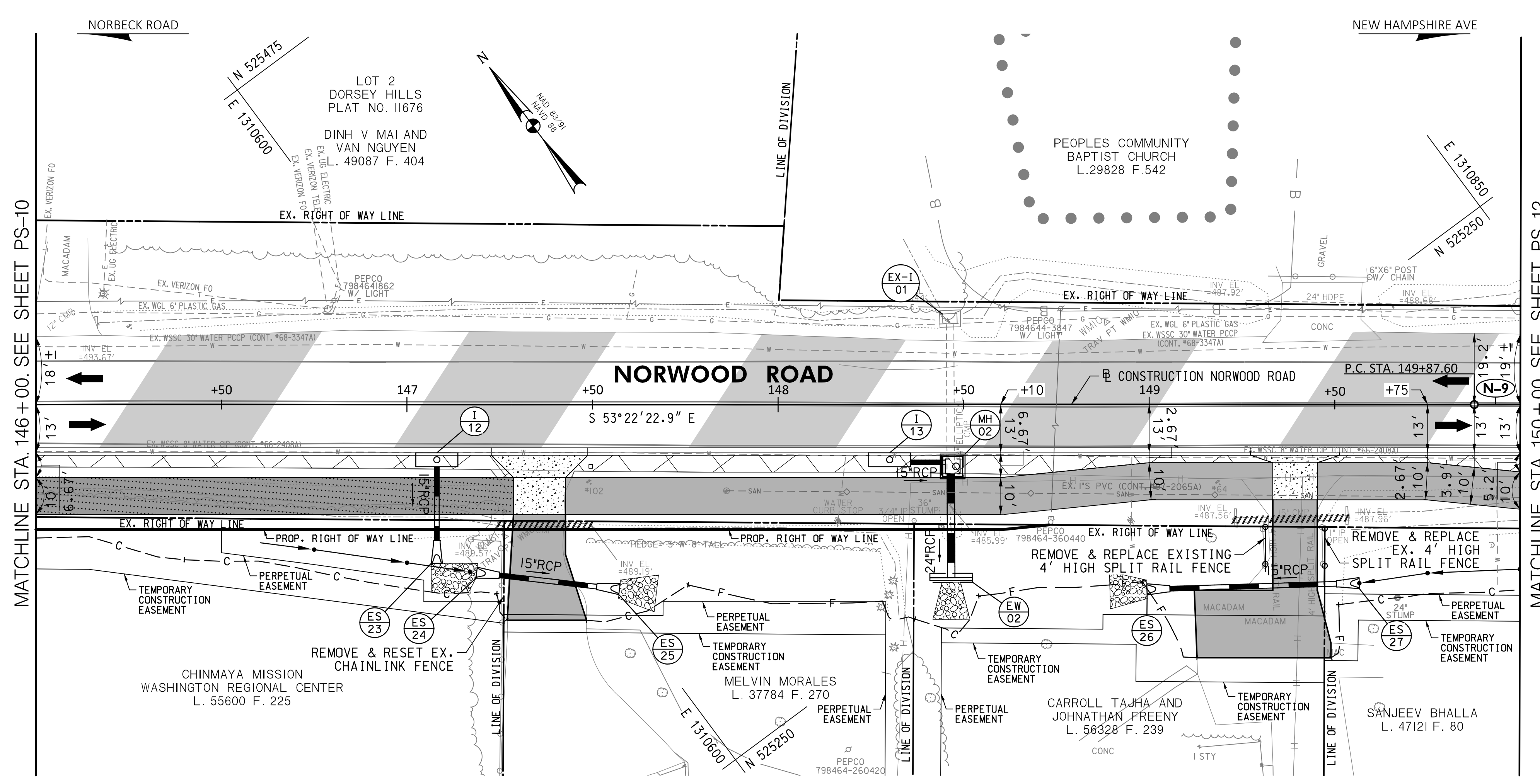
DESIGNED BY: L.C.M. DRAWN BY: L.C.M. CHECKED BY: S.H.D.

**PLAN SHEET PS-10**  
**ROADWAY PLAN**  
**NORWOOD ROAD**  
**SHARED USE PATH**  
**STA. 141+50 TO STA. 146+00**

SCALE: 1"=20' DATE: JAN, 2024

PROJECT NO.: C.I.P. # PENDING SHEET NO. 33 OF 133

**(N-9)**  
 CURVE DATA  
 $\Delta = 1^{\circ}07'23.1''$   
 $Dc = 1^{\circ}08'45.3''$   
 $R = 5000.00'$   
 $T = 49.01'$   
 $L = 98.01'$   
 $E = 0.24'$



**LOCATION MAP**  
 SCALE 1"=1000'

**STANDARD MONTGOMERY COUNTY TYPE A COMBINATION CURB AND GUTTER, 16" GUTTER PAN, 8" MIN. DEPTH (MC-100.01)**

123 L.F.	NORWOOD ROAD - STA. 146+00 TO STA. 147+23, RT.
179 L.F.	NORWOOD ROAD - STA. 147+49 TO STA. 149+27, RT.
49 L.F.	NORWOOD ROAD - STA. 149+51 TO STA. 150+00, RT.

**DEPRESSED CURB ENTRANCE (MC-102.01)**

26 L.F.	NORWOOD ROAD - STA. 147+23 TO STA. 147+49, RT.
24 L.F.	NORWOOD ROAD - STA. 149+27 TO STA. 149+51, RT.

**7 INCH PORTLAND CEMENT CONCRETE PAVEMENT FOR RESIDENTIAL DRIVEWAY MIX NO. 9 (MC-301.01)**

260 S.F.	NORWOOD ROAD - STA. 147+23 TO STA. 147+49, RT.
156 S.F.	NORWOOD ROAD - STA. 149+27 TO STA. 149+51, RT.

**REMOVAL OF EXISTING PAVEMENT**

9 C.Y.	NORWOOD ROAD - STA. 146+00 TO STA. 147+29, RT.
14 C.Y.	NORWOOD ROAD - STA. 147+43 TO STA. 149+33, RT.
4 C.Y.	NORWOOD ROAD - STA. 149+45 TO STA. 150+00, RT.

**REMOVAL OF EXISTING MASONRY**

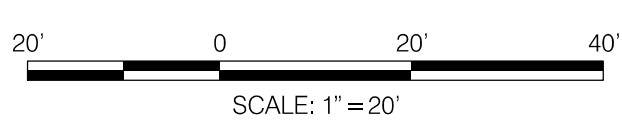
1 C.Y.	NORWOOD ROAD - STA. 149+23, RT. (EX. ENDWALL)
1 C.Y.	NORWOOD ROAD - STA. 149+54, RT. (EX. ENDWALL)

**REMOVAL OF EXISTING PIPE**

25 L.F.	NORWOOD ROAD - STA. 147+25 TO STA. 147+50, RT.
31 L.F.	NORWOOD ROAD - STA. 149+23 TO STA. 149+54, RT.

**REMOVE & RESET/RELOCATE EXISTING MAIL BOX (ANY SIZE, ANY TYPE)**

1 EA.	NORWOOD ROAD - STA. 136+77, RT.
1 EA.	NORWOOD ROAD - STA. 137+74, RT.



**30% SUBMITTAL**

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 Hunt Valley, Maryland 21030  
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**ROADWAY LEGEND**

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	FULL DEPTH PERMEABLE ASPHALT
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	POROUS CONCRETE SIDEWALK
	EXISTING SIDEWALK / PAVEMENT REMOVAL

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  - FOR PAVEMENT MARKINGS REFER TO SIGNING AND PAVEMENT MARKING PLANS SN-2.1 TO SN-2.6.
  - ALL DIMENSIONS MEASURED TO THE FACE OF THE CURB.

DATUM: NAD 83/91 HORIZONTAL  
 NAVD 88 VERTICAL

PROFESSIONAL CERTIFICATION

I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND. SETH H. DARLINGTON

LICENSE NO.: 39917  
 EXP. DATE: 01/18/2025

SEAL  
 STATE OF MARYLAND  
 SETH H. DARLINGTON  
 No. 39917  
 PROFESSIONAL ENGINEER

NO.	REVISION	DATE	BY

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

RECOMMENDED FOR APPROVAL

Chief, Design Section \_\_\_\_\_ DATE \_\_\_\_\_  
 APPROVED

Chief, Division of Engineering Services \_\_\_\_\_ DATE \_\_\_\_\_  
 DESIGNED BY: L.C.M. DRAWN BY: L.C.M. CHECKED BY: S.H.D.

**PLAN SHEET PS-11  
 ROADWAY PLAN  
 NORWOOD ROAD  
 SHARED USE PATH  
 STA. 146+00 TO STA. 150+00**

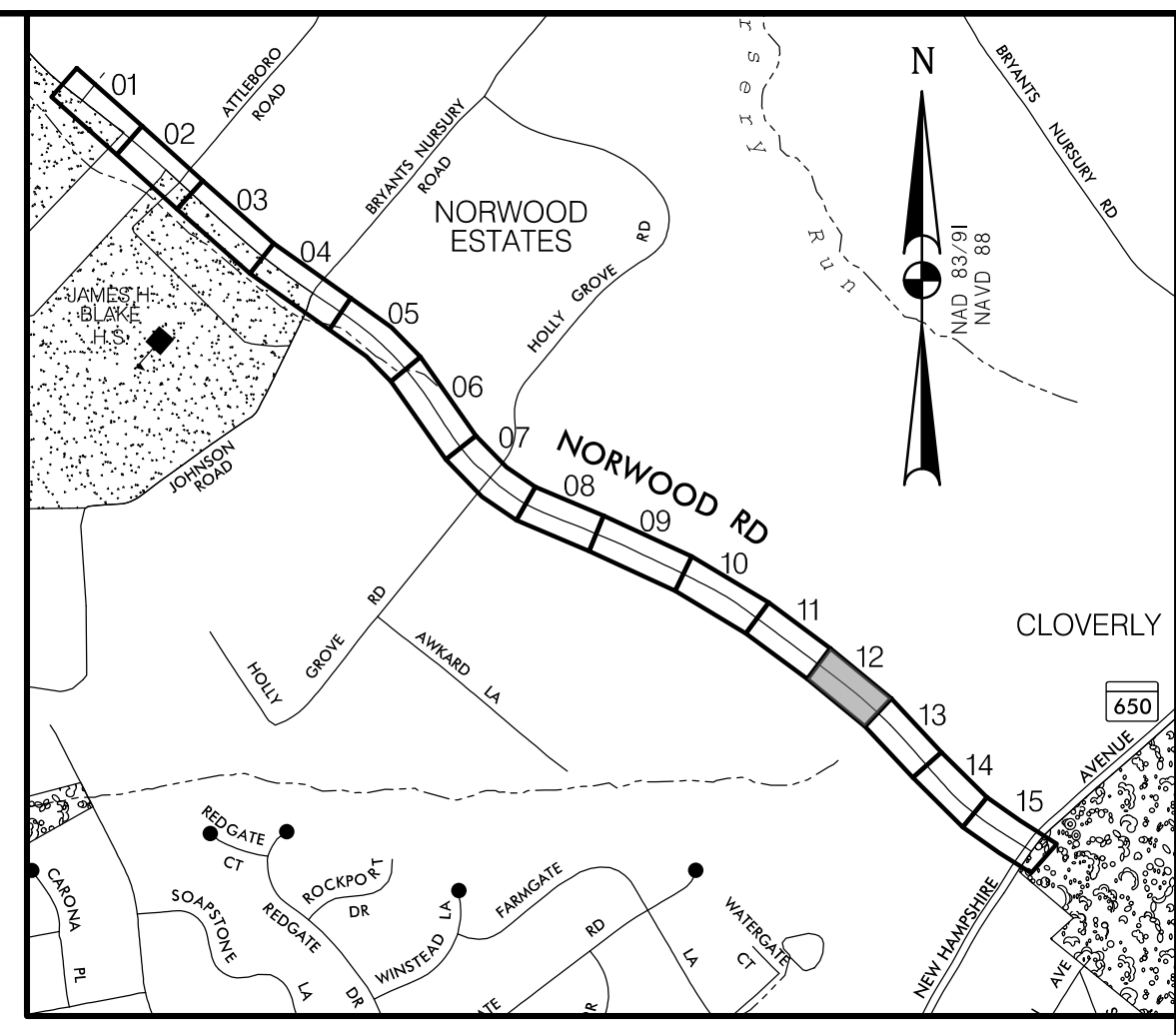
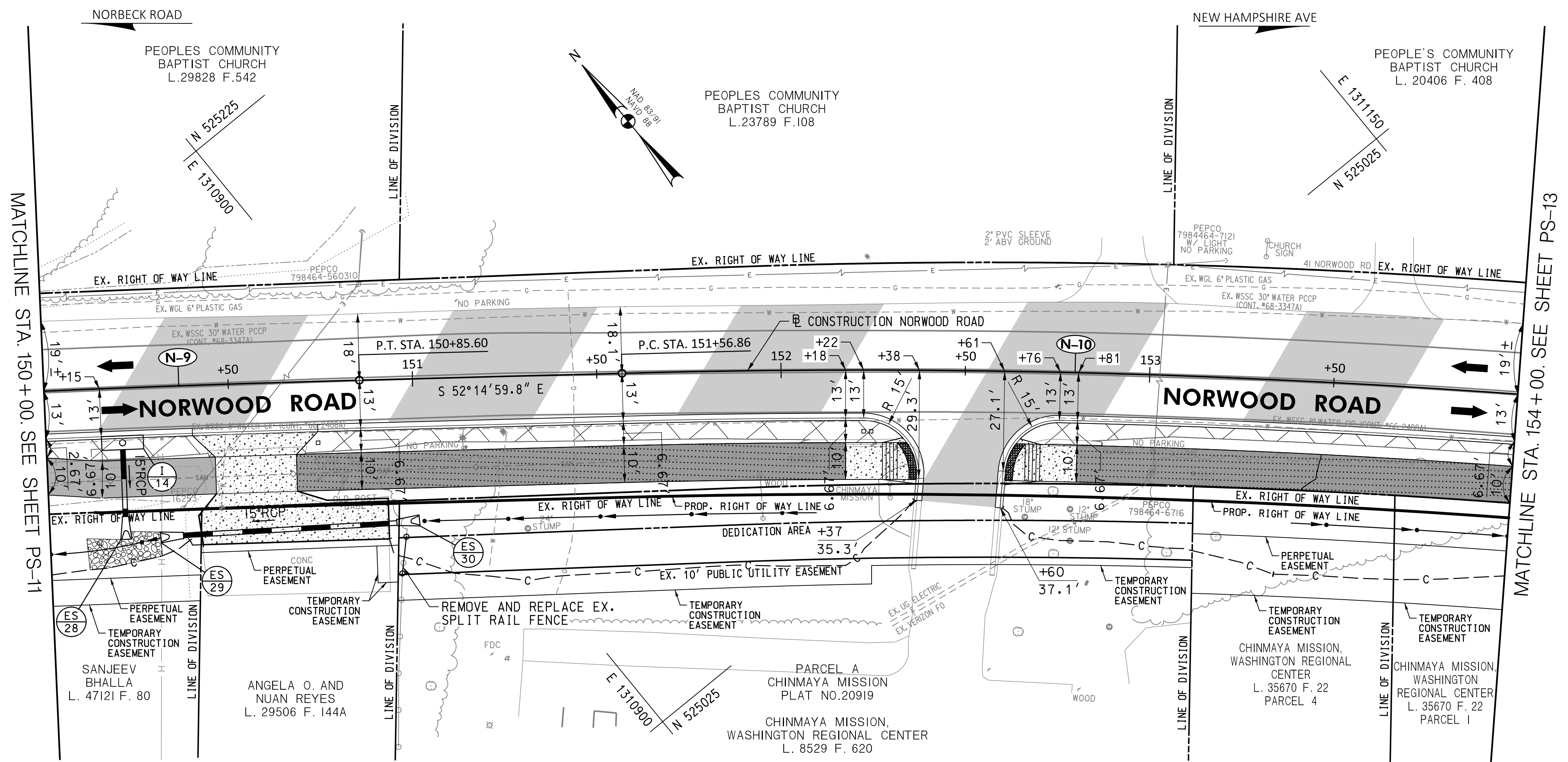
SCALE: 1"=20' DATE: JAN, 2024

PROJECT NO.: C.I.P. # PENDING SHEET NO. 34 OF 133

BY: Imaggio

**N-9**  
 CURVE DATA  
 $\Delta = 1^{\circ}07'23.1''$   
 $Dc = 1^{\circ}08'45.3''$   
 $R = 5000.00'$   
 $T = 49.01'$   
 $L = 98.01'$   
 $E = 0.24'$

**N-10**  
 CURVE DATA  
 $\Delta = 10^{\circ}42'40.0''$   
 $Dc = 2^{\circ}20'19.0''$   
 $R = 2450.00'$   
 $T = 229.68'$   
 $L = 458.01'$   
 $E = 10.74'$



**LOCATION MAP**  
 SCALE 1"=1000'

**STANDARD MONTGOMERY COUNTY TYPE A COMBINATION CURB AND GUTTER, 16" GUTTER PAN, 8" MIN. DEPTH (MC-100.01)**

40 L.F.	NORWOOD ROAD - STA. 150+00 TO STA. 150+40, RT.
161 L.F.	NORWOOD ROAD - STA. 150+74 TO STA. 152+33, RT.
5 L.F.	NORWOOD ROAD - STA. 152+37 TO STA. 152+38, RT.
7 L.F.	NORWOOD ROAD - STA. 152+60 TO STA. 152+61, RT.
136 L.F.	NORWOOD ROAD - STA. 152+65 TO STA. 154+00, RT.

**DEPRESSED CURB ENTRANCE (MC-102.01)**

34 L.F.	NORWOOD ROAD - STA. 150+40 TO STA. 150+74, RT.
14 L.F.	NORWOOD ROAD - STA. 152+33 TO STA. 152+37, RT.
14 L.F.	NORWOOD ROAD - STA. 152+61 TO STA. 152+65, RT.

**7 INCH PORTLAND CEMENT CONCRETE PAVEMENT FOR RESIDENTIAL DRIVEWAY MIX NO. 9 (MC-301.01)**

390 S.F.	NORWOOD ROAD - STA. 150+40 TO STA. 150+74, RT.
----------	--

**REMOVAL OF EXISTING PAVEMENT**

9 C.Y.	NORWOOD ROAD - STA. 150+00 TO STA. 150+46, RT.
28 C.Y.	NORWOOD ROAD - STA. 150+68 TO STA. 152+33, RT.
17 C.Y.	NORWOOD ROAD - STA. 152+65 TO STA. 154+00, RT.

**4 INCH CONCRETE SIDEWALK**

196 S.F.	NORWOOD ROAD - STA. 152+17 TO STA. 152+37, RT.
196 S.F.	NORWOOD ROAD - STA. 152+61 TO STA. 152+81, RT.

**SIDEWALK RAMP CONSTRUCTION**

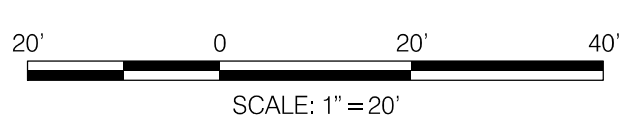
NORWOOD ROAD - STA. 152+36, RT.	MC-112.01
NORWOOD ROAD - STA. 152+62, RT.	MC-112.01

**DETECTABLE WARNING SURFACE FOR CURB RAMPS (MD 655.40)**

22 S.F.	NORWOOD ROAD - STA. 152+36, RT.
22 S.F.	NORWOOD ROAD - STA. 152+62, RT.

**REMOVE & RESET/RELOCATE EXISTING MAIL BOX (ANY SIZE, ANY TYPE)**

1 EA.	NORWOOD ROAD - STA. 150+74, RT.
2 EA.	NORWOOD ROAD - STA. 152+24, RT.



**30% SUBMITTAL**

- GENERAL NOTES:**
- EXISTING RIGHT OF WAY LINES ARE BASED ON EXISTING RIGHT OF WAY INFORMATION.
  - FOR PAVEMENT MARKINGS REFER TO SIGNING AND PAVEMENT MARKING PLANS SN-2.1 TO SN-2.6.
  - ALL DIMENSIONS MEASURED TO THE FACE OF THE CURB.

DATUM: NAD 83/91 HORIZONTAL  
 NAVD 88 VERTICAL

PROFESSIONAL CERTIFICATION

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LICENSE NO.: 39917

EXP. DATE: 01/18/2025

SEAL: STATE OF MARYLAND PROFESSIONAL ENGINEER No. 39917

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

RECOMMENDED FOR APPROVAL

Chief, Design Section DATE

APPROVED

Chief, Division of Engineering Services DATE

DESIGNED BY: L.C.M. DRAWN BY: L.C.M. CHECKED BY: S.H.D.

**PLAN SHEET PS-12  
 ROADWAY PLANS  
 NORWOOD ROAD  
 SHARED USE PATH  
 STA. 150+00 TO STA. 154+00**

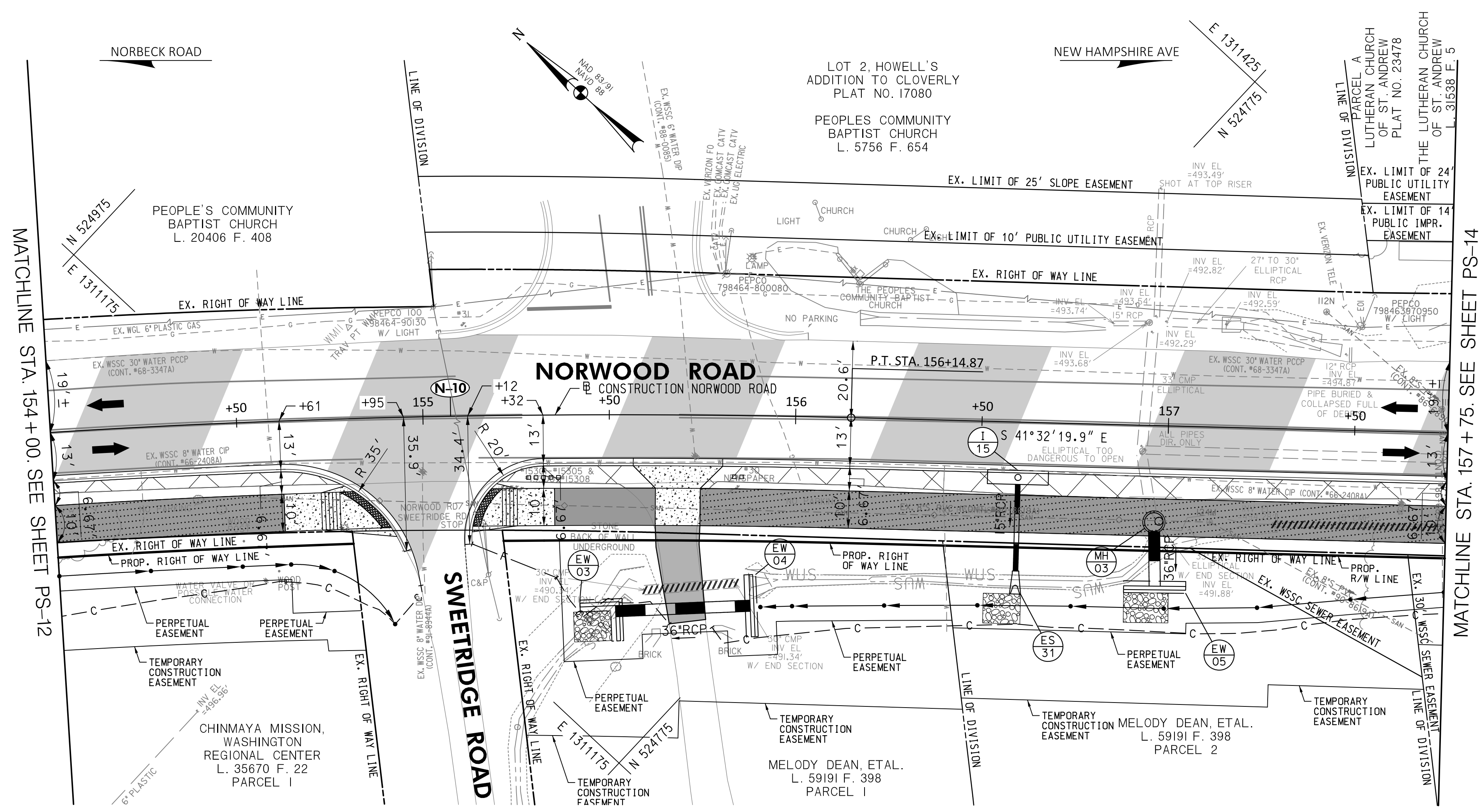
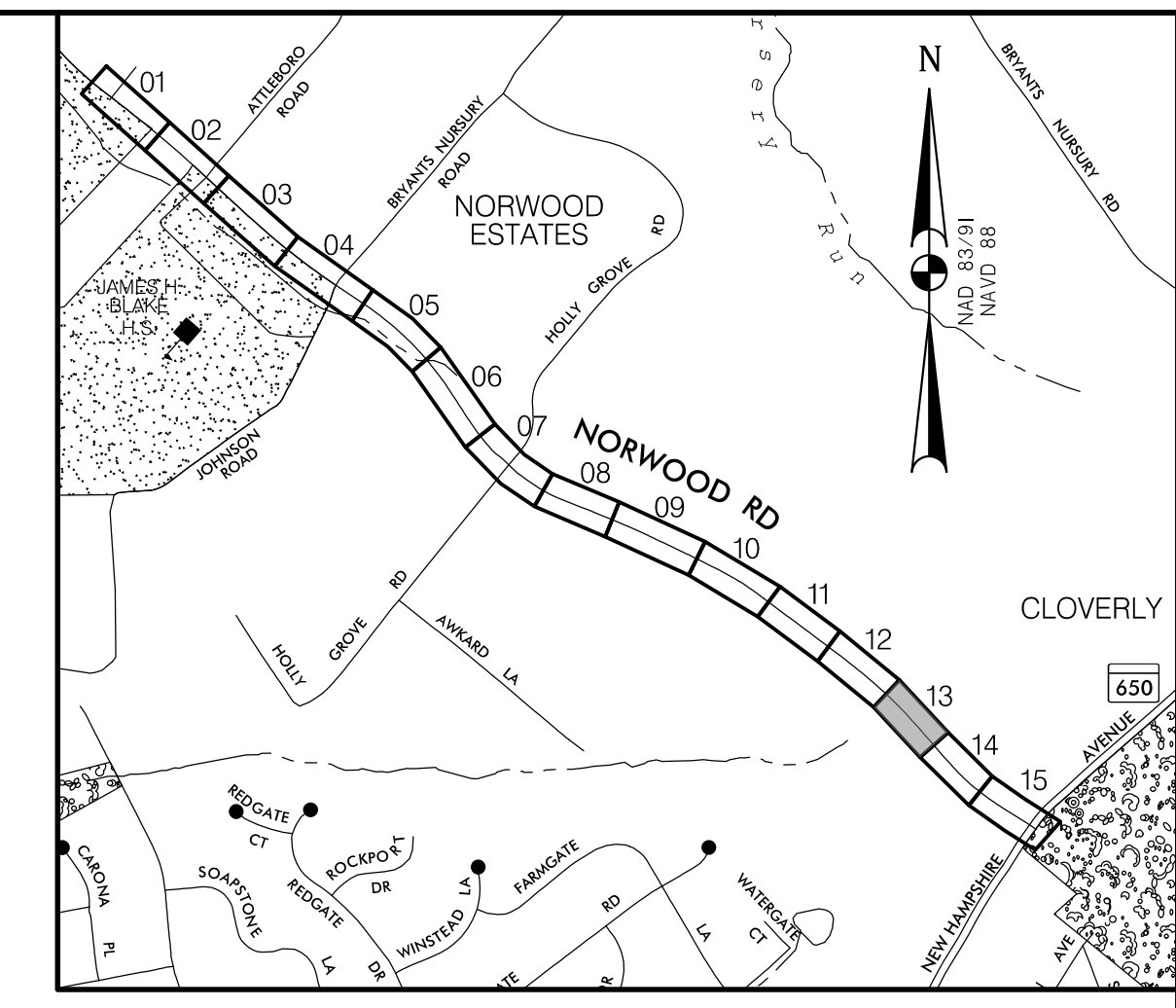
SCALE: 1"=20' DATE: JAN, 2024

PROJECT NO.: C.I.P. # PENDING SHEET NO. 35 OF 133

**WALLACE MONTGOMERY**  
 ENGINEERS-PLANNERS-SURVEYORS-CONSTRUCTION MANAGERS

10150 York Road, Suite 200  
 Hunt Valley, Maryland 21030  
 410.494.9093 Tel / 410.667.0925 Fax  
 www.WallaceMontgomery.com

**N-10**  
 CURVE DATA  
 $\Delta = 10^{\circ}42'40.0''$   
 $Dc = 2^{\circ}20'19.0''$   
 $R = 2450.00'$   
 $T = 229.68'$   
 $L = 458.01'$   
 $E = 10.74'$



**LOCATION MAP**  
 SCALE 1"=1000'

<b>STANDARD MONTGOMERY COUNTY TYPE A COMBINATION CURB AND GUTTER, 16" GUTTER PAN, 8" MIN. DEPTH (MC-100.01)</b>	
79 L.F.	NORWOOD ROAD - STA. 154+00 TO STA. 154+79, RT.
39 L.F.	NORWOOD ROAD - STA. 155+20 TO STA. 155+56, RT.
195 L.F.	NORWOOD ROAD - STA. 155+81 TO STA. 157+75, RT.

<b>DEPRESSED CURB ENTRANCE (MC-102.01)</b>	
25 L.F.	NORWOOD ROAD - STA. 154+79 TO STA. 154+95, RT.
19 L.F.	NORWOOD ROAD - STA. 155+12 TO STA. 155+20, RT.
24 L.F.	NORWOOD ROAD - STA. 155+56 TO STA. 155+81, RT.

<b>7 INCH PORTLAND CEMENT CONCRETE PAVEMENT FOR RESIDENTIAL DRIVEWAY MIX NO. 9 (MC-301.01)</b>	
228 S.F.	NORWOOD ROAD - STA. 155+56 TO STA. 155+81, RT.

<b>REMOVAL OF EXISTING PAVEMENT</b>	
8 C.Y.	NORWOOD ROAD - STA. 154+00 TO STA. 154+77, RT.
6 C.Y.	NORWOOD ROAD - STA. 155+20 TO STA. 155+62, RT.
38 C.Y.	NORWOOD ROAD - STA. 155+75 TO STA. 157+75, RT.

<b>REMOVAL OF EXISTING MASONRY</b>	
10 C.Y.	NORWOOD ROAD - STA. 155+62, RT. (EX. BRICK)
10 C.Y.	NORWOOD ROAD - STA. 155+81, RT. (EX. BRICK)
1 C.Y.	NORWOOD ROAD - STA. 157+29, RT. (EX. ENDWALL)

<b>REMOVAL OF EXISTING PIPE</b>	
25 L.F.	NORWOOD ROAD - STA. 155+60 TO STA. 155+84, RT.
47 L.F.	NORWOOD ROAD - STA. 157+29 TO STA. 157+75, RT.

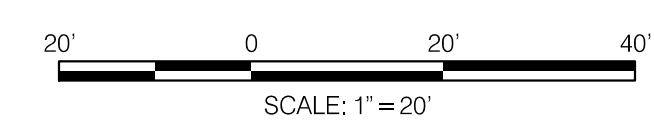
<b>4 INCH CONCRETE SIDEWALK</b>	
273 S.F.	NORWOOD ROAD - STA. 154+61 TO STA. 154+92, RT.
215 S.F.	NORWOOD ROAD - STA. 155+13 TO STA. 155+35, RT.

<b>MILLING HOT MIX ASPHALT PAVEMENT PER 1 INCH DEPTH (2 INCHES)</b>	
2838 S.Y.	NORWOOD ROAD - STA. 154+00 TO STA. 157+75, RT.

<b>SIDEWALK RAMP CONSTRUCTION</b>	
NORWOOD ROAD - STA. 154+86, RT.	MC-112.01
NORWOOD ROAD - STA. 155+15, RT.	MC-112.01

<b>REMOVE &amp; RESET/RELOCATE EXISTING MAIL BOX (ANY SIZE, ANY TYPE)</b>	
4 EA.	NORWOOD ROAD - STA. 155+32, RT.
2 EA.	NORWOOD ROAD - STA. 137+74, RT.

<b>DETECTABLE WARNING SURFACE FOR CURB RAMPS (MD 655.40)</b>	
29 S.F.	NORWOOD ROAD - STA. 154+86, RT.
23 S.F.	NORWOOD ROAD - STA. 155+15, RT.



**30% SUBMITTAL**

- GENERAL NOTES:**
- EXISTING RIGHT OF WAY LINES ARE BASED ON EXISTING RIGHT OF WAY INFORMATION.
  - FOR PAVEMENT MARKINGS REFER TO SIGNING AND PAVEMENT MARKING PLANS SN-2.1 TO SN-2.6.
  - ALL DIMENSIONS MEASURED TO THE FACE OF THE CURB.

DATUM: NAD 83/91 HORIZONTAL  
 NAVD 88 VERTICAL

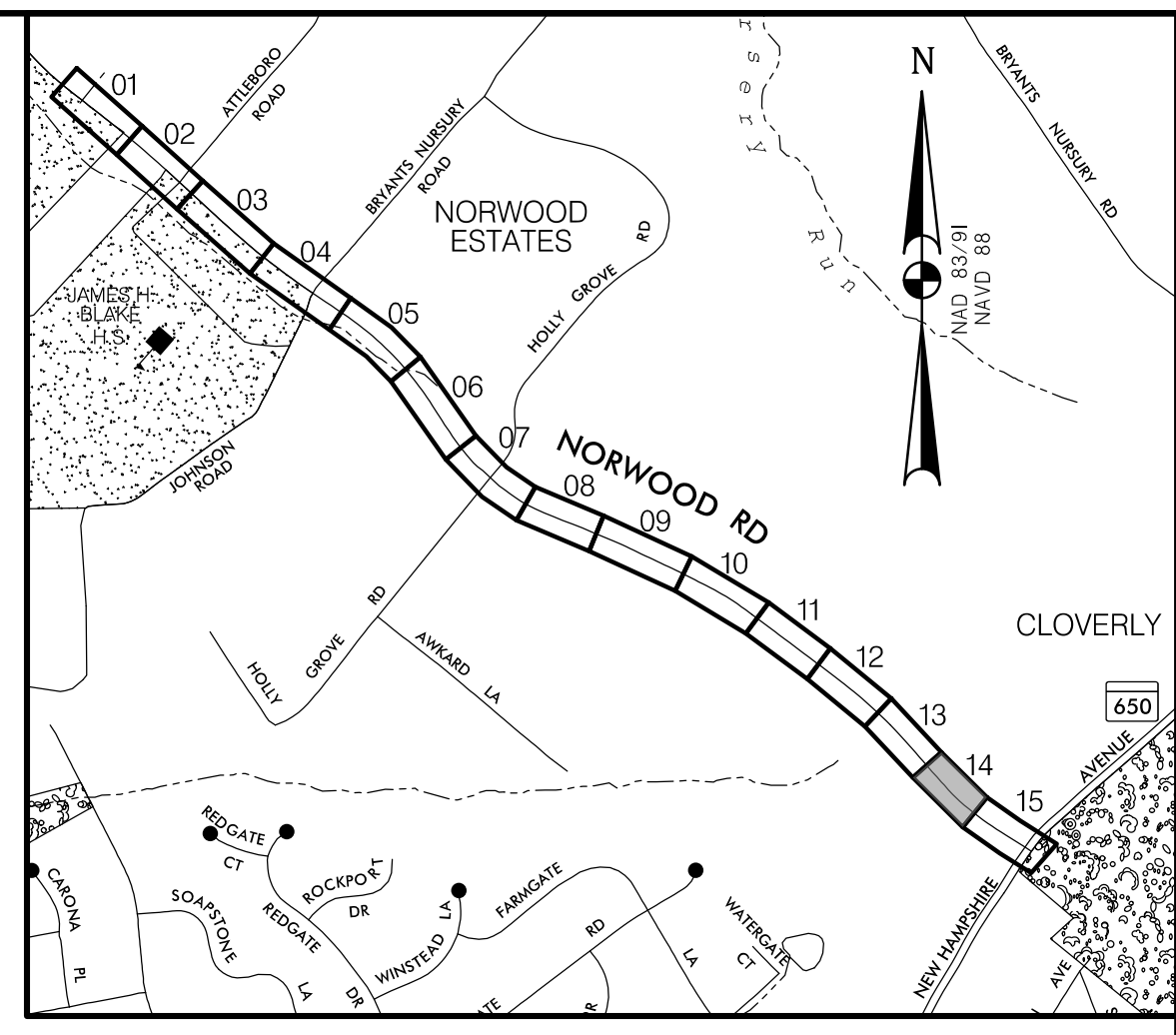
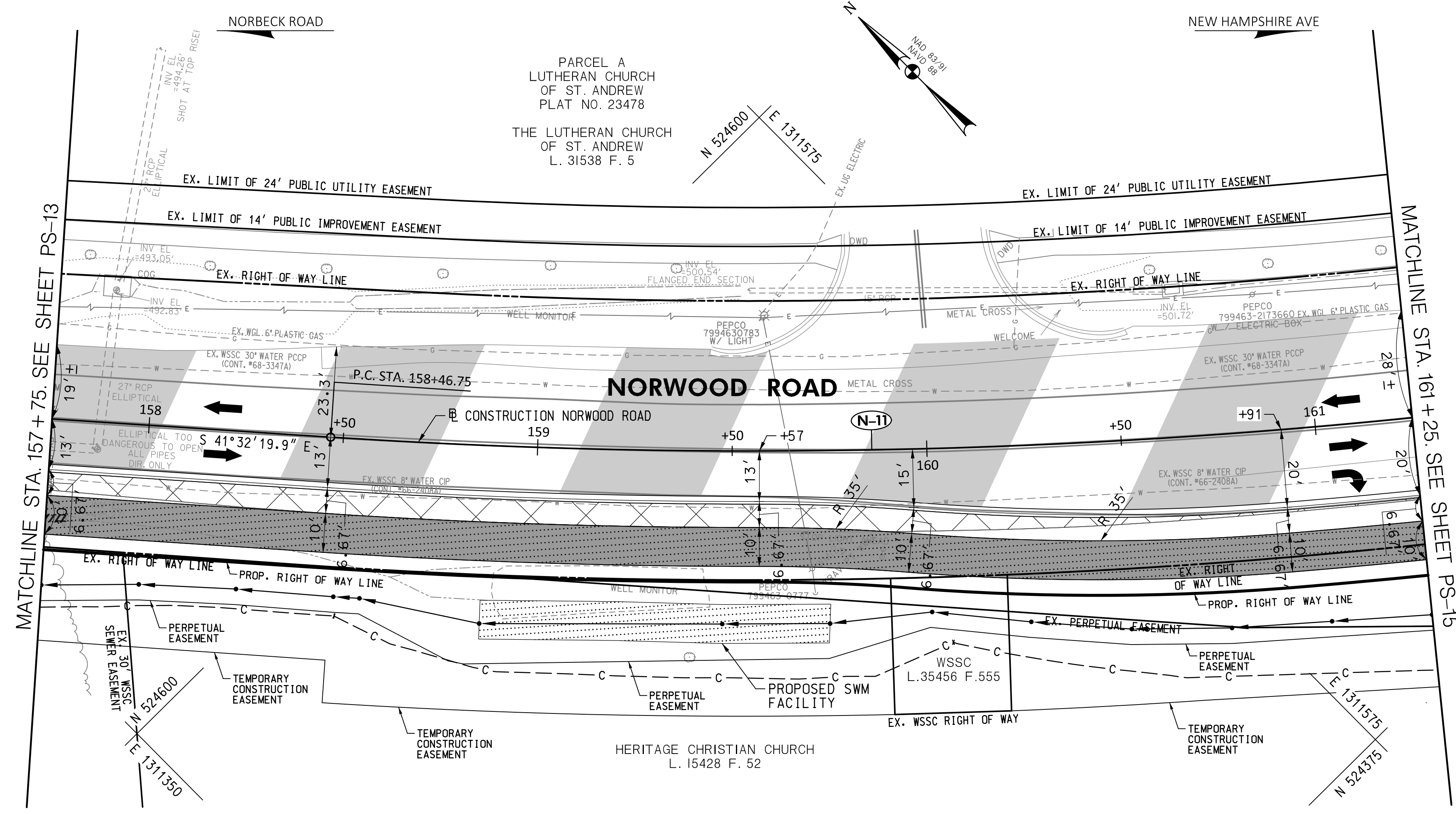
<b>PROFESSIONAL CERTIFICATION</b> I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND. SETH H. DARLINGTON LICENSE NO.: 39917 EXP. DATE: 01/18/2025	<b>SEAL</b> STATE OF MARYLAND SETH H. DARLINGTON No. 39917 PROFESSIONAL ENGINEER
--	--

<b>MONTGOMERY COUNTY</b> DEPARTMENT OF TRANSPORTATION 100 EDISON PARK DRIVE, 4TH FLOOR GAITHERSBURG, MD 20878	
RECOMMENDED FOR APPROVAL	
Chief, Design Section	DATE
APPROVED	
Chief, Division of Engineering Services	DATE
DESIGNED BY: L.C.M.	DRAWN BY: L.C.M.
CHECKED BY: S.H.D.	

<b>PLAN SHEET PS-13</b> <b>ROADWAY PLAN</b> <b>NORWOOD ROAD</b> <b>SHARED USE PATH</b> <b>STA. 154+00 TO STA. 157+75</b>	
SCALE: 1"=20'	DATE: JAN, 2024
PROJECT NO.: C.I.P. # PENDING	SHEET NO. 36 OF 133

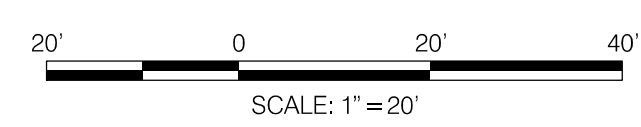
**WALLACE MONTGOMERY**  
 ENGINEERS-PLANNERS-SURVEYORS-CONSTRUCTION MANAGERS  
 10150 York Road, Suite 200  
 Hunt Valley, Maryland 21030  
 410.494.9093 Tel / 410.667.0925 Fax  
 www.WallaceMontgomery.com

**(N-1)**  
 CURVE DATA  
 $\Delta = 16^{\circ}06'15.0''$   
 $Dc = 3^{\circ}25'11.0''$   
 $R = 1675.45'$   
 $T = 237.02'$   
 $L = 470.92'$   
 $E = 16.68'$



**LOCATION MAP**  
 SCALE 1"=1000'

STANDARD MONTGOMERY COUNTY TYPE A COMBINATION CURB AND GUTTER, 16" GUTTER PAN, 8" MIN. DEPTH (MC-100.01)
353 L.F. NORWOOD ROAD - STA. 157+75 TO STA. 161+25, RT.
REMOVAL OF EXISTING PAVEMENT
57 C.Y. NORWOOD ROAD - STA. 157+75 TO STA. 161+25, RT.
REMOVAL OF EXISTING MASONRY
1 C.Y. NORWOOD ROAD - STA. 157+80, RT. (EX. ENDWALL)
REMOVAL OF EXISTING PIPE
5 L.F. NORWOOD ROAD - STA. 157+75 TO STA. 157+80, RT.
MILLING HOT MIX ASPHALT PAVEMENT PER 1 INCH DEPTH (2 INCHES)
3043 S.Y. NORWOOD ROAD - STA. 157+75 TO STA. 161+25, RT.



**30% SUBMITTAL**

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**ROADWAY LEGEND**

- FINE MILLING & RESURFACING
- FULL DEPTH ASPHALT
- FULL DEPTH PERMEABLE ASPHALT
- CONCRETE SIDEWALK
- POROUS CONCRETE SIDEWALK
- EXISTING SIDEWALK / PAVEMENT REMOVAL

- GENERAL NOTES:**
- EXISTING RIGHT OF WAY LINES ARE BASED ON EXISTING RIGHT OF WAY INFORMATION.
  - FOR PAVEMENT MARKINGS REFER TO SIGNING AND PAVEMENT MARKING PLANS SN-2.1 TO SN-2.6.
  - ALL DIMENSIONS MEASURED TO THE FACE OF THE CURB.

DATUM: NAD 83/91 HORIZONTAL  
 NAVD 88 VERTICAL

PROFESSIONAL CERTIFICATION

I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND. SETH H. DARLINGTON

LICENSE NO.: 39917  
 EXP. DATE: 01/18/2025

SEAL  
 STATE OF MARYLAND  
 SETH H. DARLINGTON  
 No. 39917  
 PROFESSIONAL ENGINEER

NO.	REVISION	DATE	BY

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

RECOMMENDED FOR APPROVAL

Chief, Design Section \_\_\_\_\_ DATE \_\_\_\_\_  
 APPROVED

Chief, Division of Engineering Services \_\_\_\_\_ DATE \_\_\_\_\_

DESIGNED BY: L.C.M. DRAWN BY: L.C.M. CHECKED BY: S.H.D.

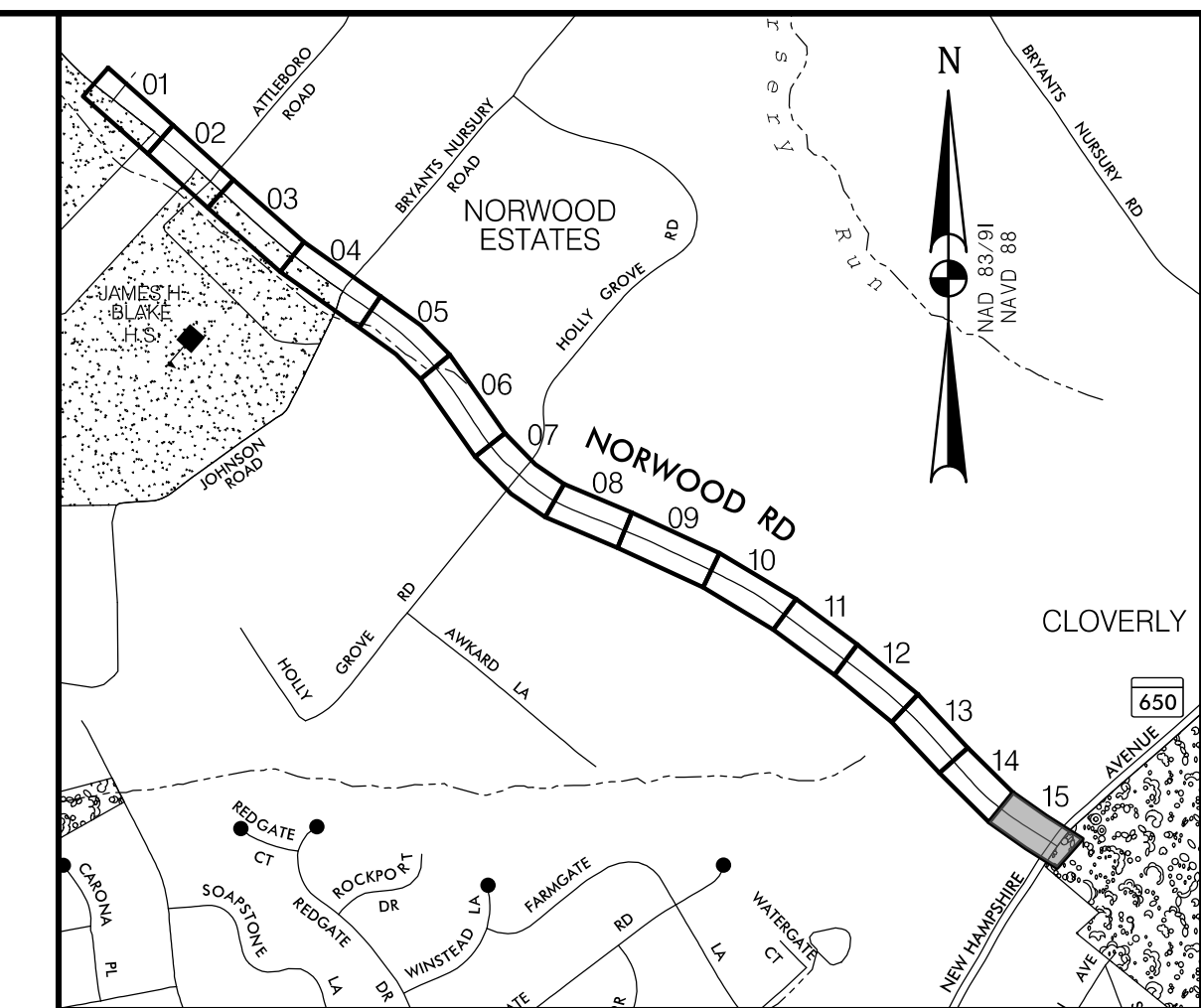
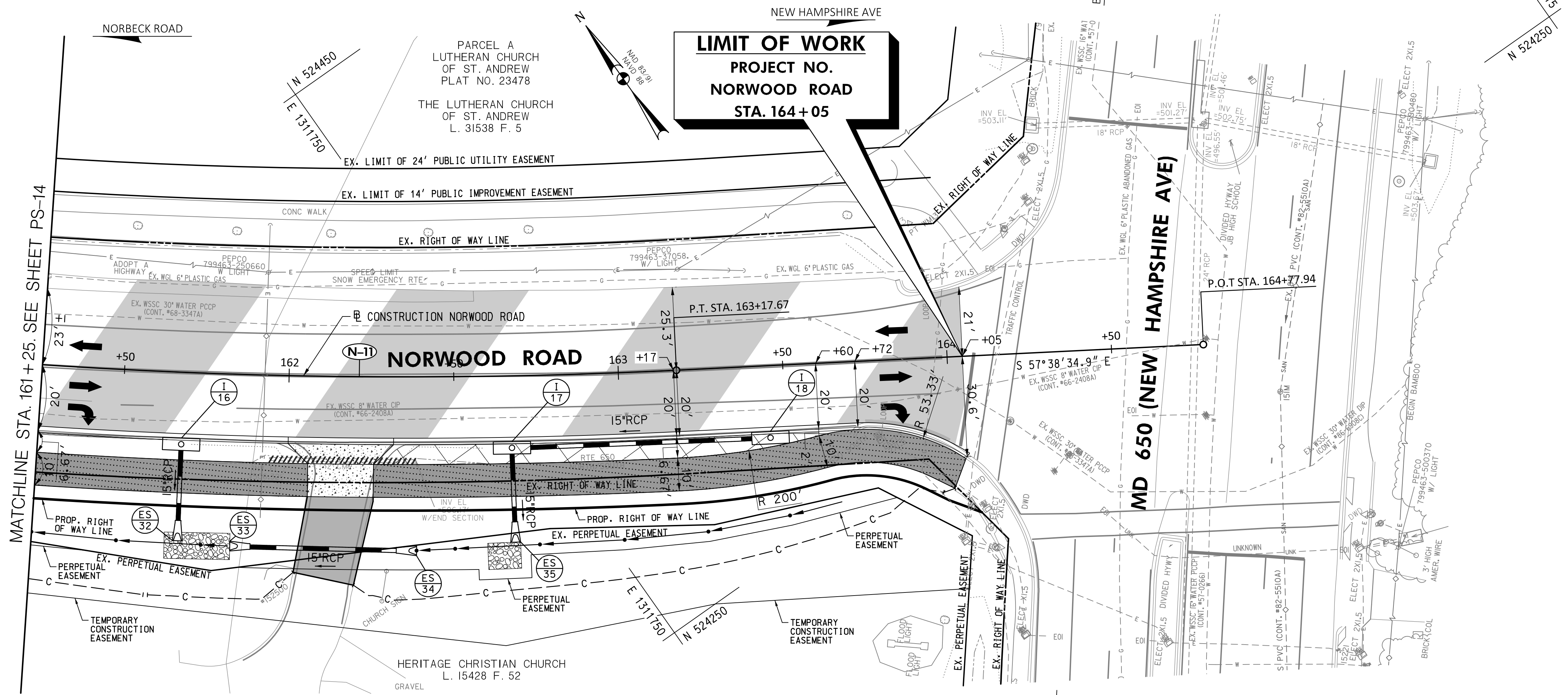
**PLAN SHEET PS-14**  
**ROADWAY PLAN**  
**NORWOOD ROAD**  
**SHARED USE PATH**  
**STA. 157+75 TO STA. 161+25**

SCALE: 1"=20' DATE: JAN, 2024

PROJECT NO.: C.I.P. # PENDING SHEET NO. 37 OF 133

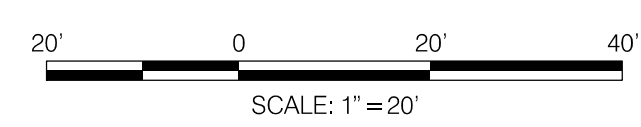
BY: Imaggio

**(N-11)**  
 CURVE DATA  
 $\Delta = 16^{\circ}06'15.0''$   
 $D_c = 3^{\circ}25'11.0''$   
 $R = 1675.45'$   
 $T = 237.02'$   
 $L = 470.92'$   
 $E = 16.68'$



**LOCATION MAP**  
 SCALE 1"=1000'

<b>STANDARD MONTGOMERY COUNTY TYPE A COMBINATION CURB AND GUTTER, 16" GUTTER PAN, 8" MIN. DEPTH (MC-100.01)</b>	
76 L.F.	NORWOOD ROAD - STA. 161+25 TO STA. 162+00, RT.
177 L.F.	NORWOOD ROAD - STA. 162+32 TO STA. 164+05, RT.
<b>DEPRESSED CURB ENTRANCE (MC-102.01)</b>	
32 L.F.	NORWOOD ROAD - STA. 162+00 TO STA. 162+32, RT.
<b>7 INCH PORTLAND CEMENT CONCRETE PAVEMENT FOR RESIDENTIAL DRIVEWAY MIX NO. 9 (MC-301.01)</b>	
357 S.F.	NORWOOD ROAD - STA. 162+00 TO STA. 162+32, RT.
<b>REMOVAL OF EXISTING PAVEMENT</b>	
26 C.Y.	NORWOOD ROAD - STA. 162+27 TO STA. 163+71, RT.
<b>REMOVAL OF EXISTING PIPE</b>	
44 L.F.	NORWOOD ROAD - STA. 161+95 TO STA. 162+38, RT.
<b>REMOVE &amp; RESET/RELOCATE EXISTING MAIL BOX (ANY SIZE, ANY TYPE)</b>	
1 EA.	NORWOOD ROAD - STA. 162+00, RT.
<b>MILLING HOT MIX ASPHALT PAVEMENT PER 1 INCH DEPTH (2 INCHES)</b>	
2840 S.Y.	NORWOOD ROAD - STA. 161+25 TO STA. 164+05, RT.



**30% SUBMITTAL**

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 www.WallaceMontgomery.com

**ROADWAY LEGEND**

- FINE MILLING & RESURFACING
- FULL DEPTH ASPHALT
- FULL DEPTH PERMEABLE ASPHALT
- CONCRETE SIDEWALK
- POROUS CONCRETE SIDEWALK
- EXISTING SIDEWALK / PAVEMENT REMOVAL

**GENERAL NOTES:**

- EXISTING RIGHT OF WAY LINES ARE BASED ON EXISTING RIGHT OF WAY INFORMATION.
- FOR PAVEMENT MARKINGS REFER TO SIGNING AND PAVEMENT MARKING PLANS SN-2.1 TO SN-2.6.
- ALL DIMENSIONS MEASURED TO THE FACE OF THE CURB.

DATUM: NAD 83/91 HORIZONTAL  
 NAVD 88 VERTICAL

PROFESSIONAL CERTIFICATION

I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND. SETH H. DARLINGTON

LICENSE NO.: 39917  
 EXP. DATE: 01/18/2025

SEAL  
 STATE OF MARYLAND  
 SETH H. DARLINGTON  
 No. 39917  
 PROFESSIONAL ENGINEER

NO.	REVISION	DATE	BY

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

RECOMMENDED FOR APPROVAL

Chief, Design Section DATE

APPROVED

Chief, Division of Engineering Services DATE

DESIGNED BY: L.C.M. DRAWN BY: L.C.M. CHECKED BY: S.H.D.

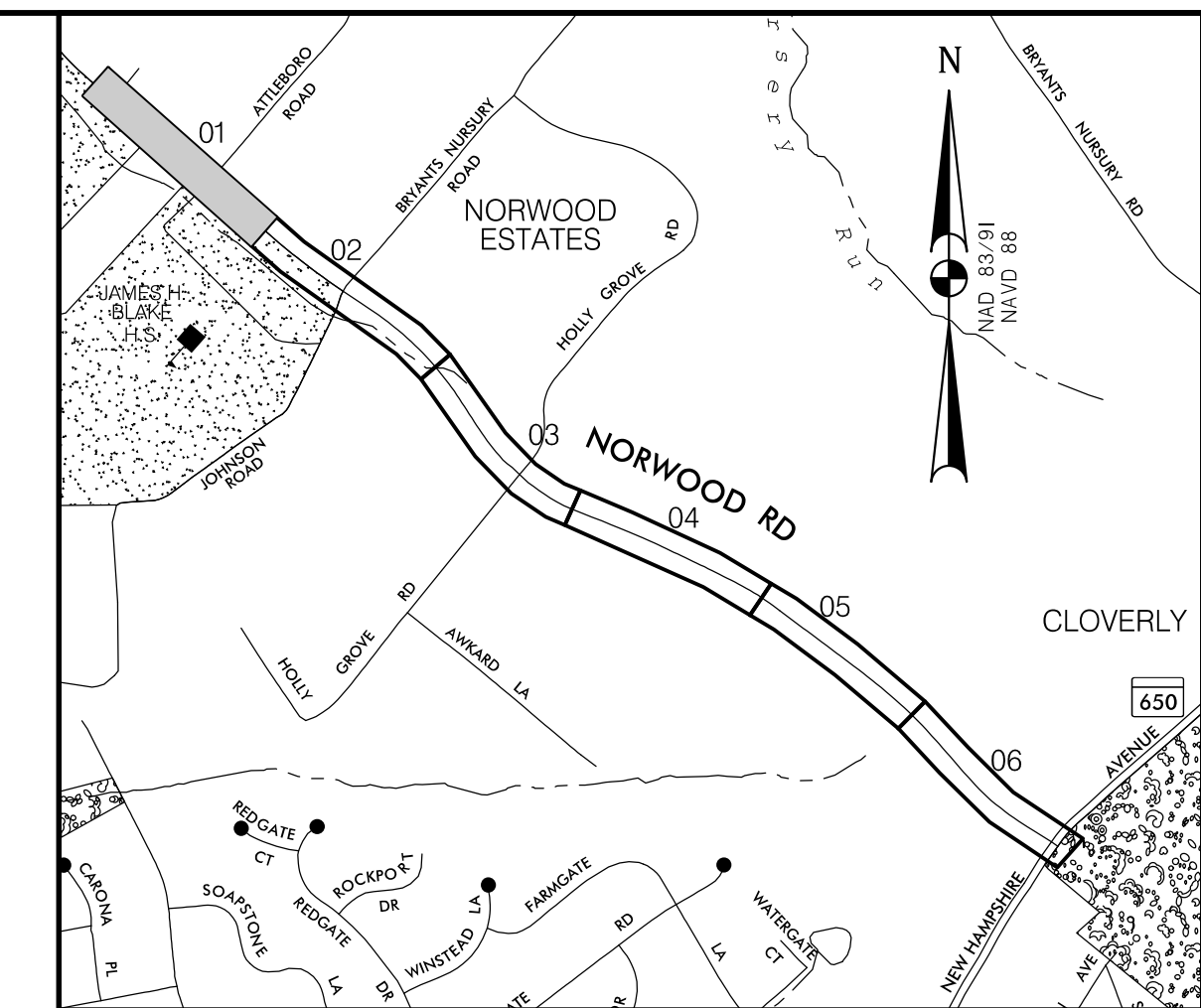
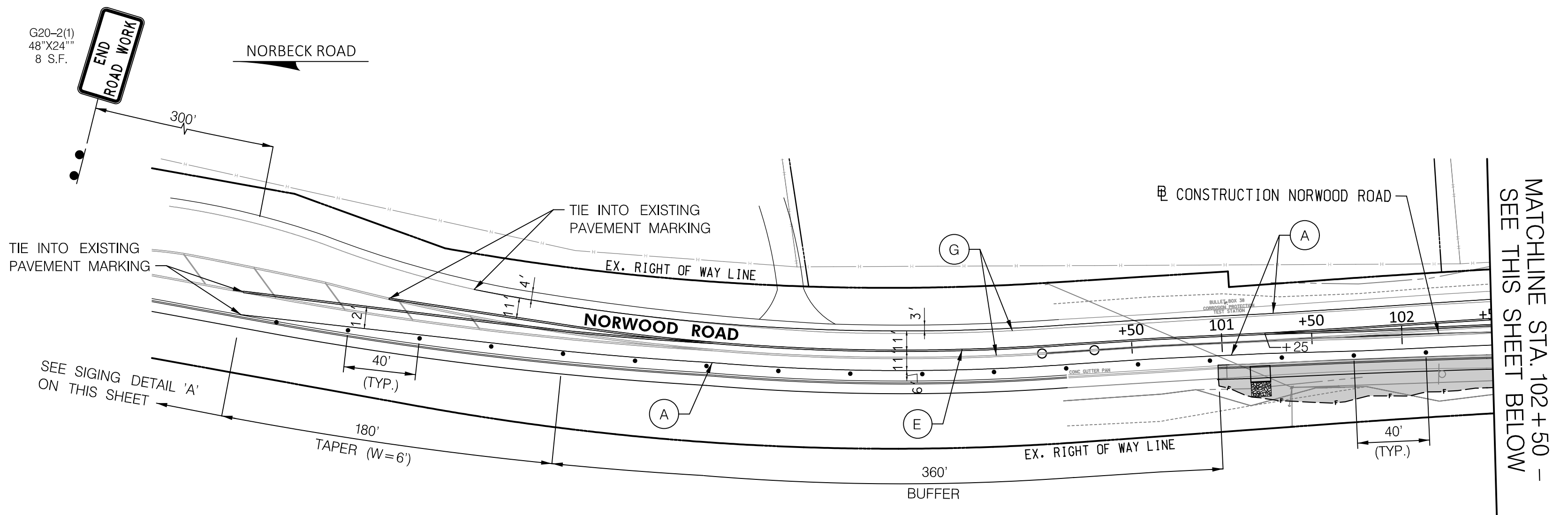
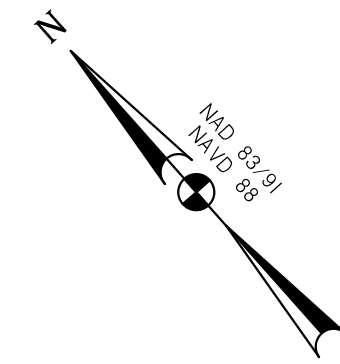
**PLAN SHEET PS-15**  
**ROADWAY PLAN**  
**NORWOOD ROAD**  
**SHARED USE PATH**  
**STA. 161+25 TO STA. 164+77.94**

SCALE: 1"=20' DATE: JAN, 2024

PROJECT NO.: C.I.P. # PENDING SHEET NO. 38 OF 133

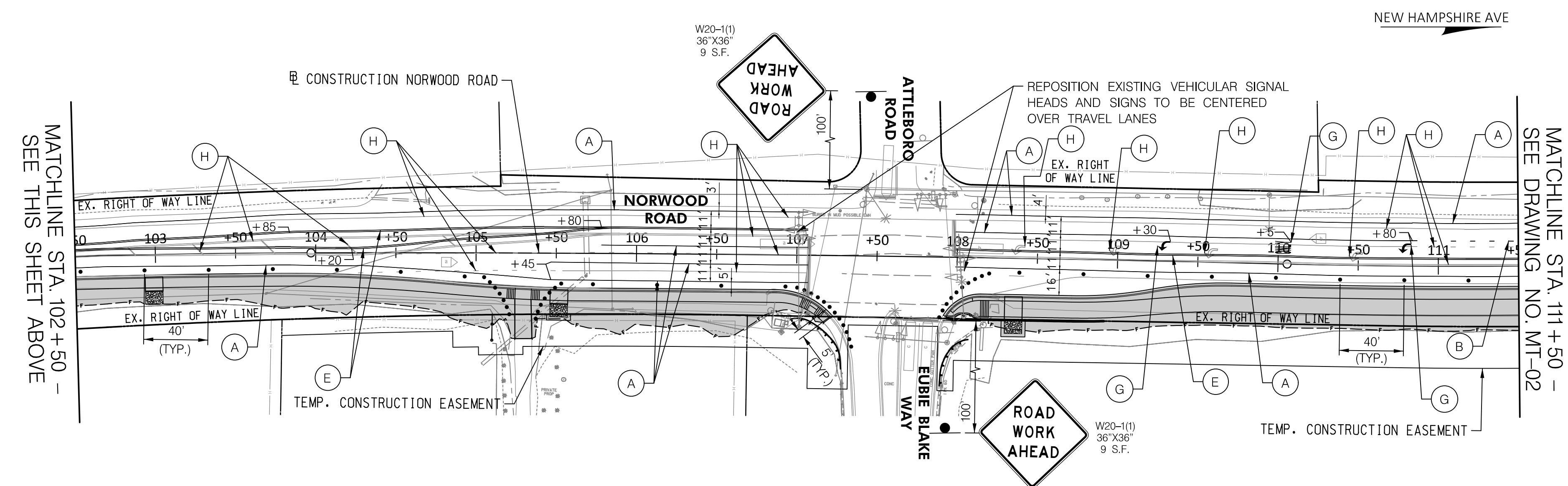
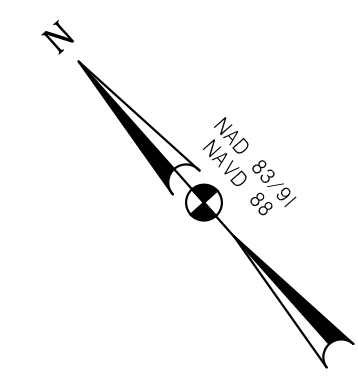
BY: Imaggio





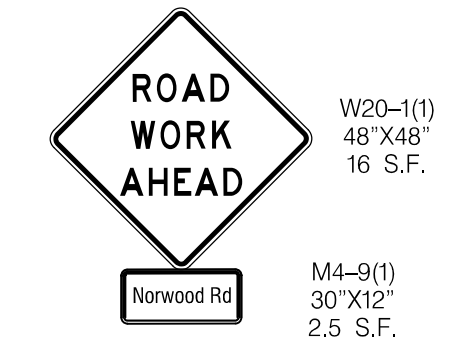
**LOCATION MAP**  
SCALE 1"=1000'

MATCHLINE STA. 102+50 -  
SEE THIS SHEET BELOW



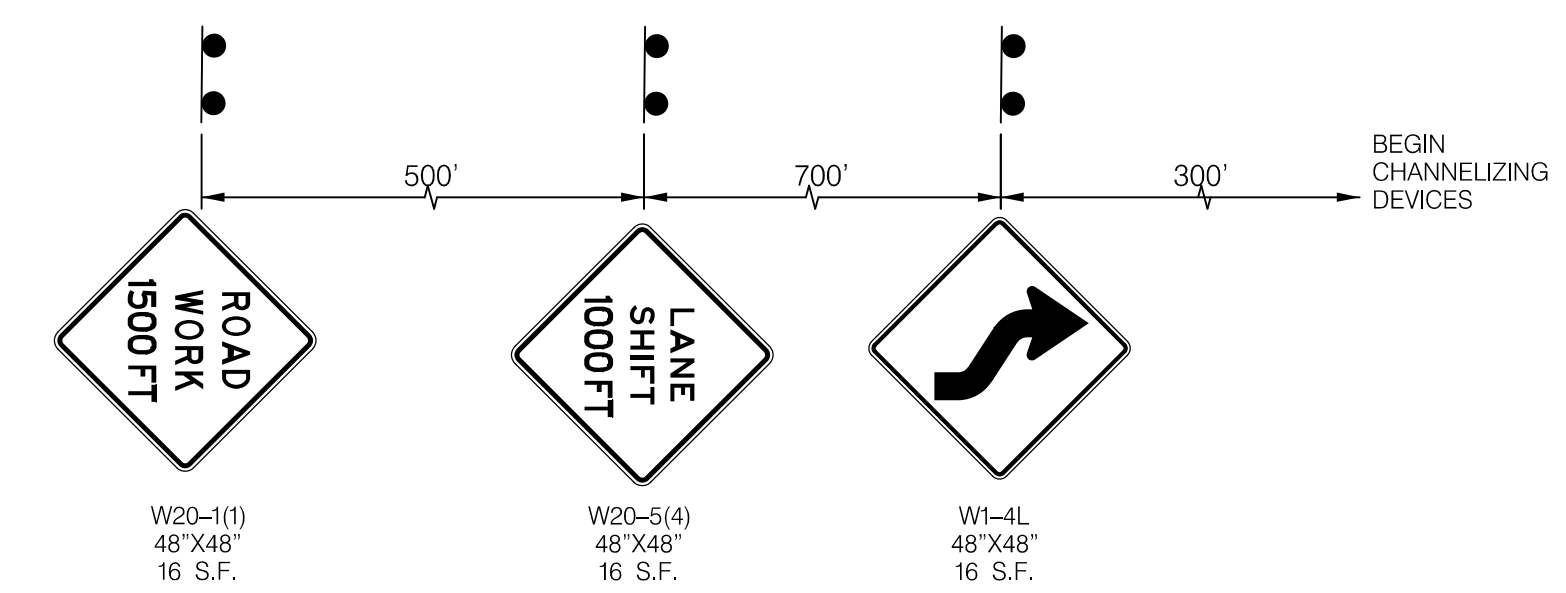
MATCHLINE STA. 102+50 -  
SEE THIS SHEET ABOVE

MATCHLINE STA. 111+50 -  
SEE DRAWING NO. MT-02



NOTE:  
PLACE W20-1(1) WITH M4-9(1) PLAQUE ALONG EASTBOUND AND WESTBOUND NORBECK ROAD, 500' IN ADVANCE OF NORWOOD ROAD INTERSECTION.

NOTE:  
PRIOR TO SHIFTING TRAFFIC, CONTRACTOR SHALL REMOVE EXISTING RAISED PAVEMENT MARKERS AND INSTALL TEMPORARY RAISED PAVEMENT MARKERS THROUGHOUT THE ENTIRE LIMITS WHERE EXISTING PAVEMENT MARKERS WERE REMOVED, IN ACCORDANCE WITH SPECIFICATIONS, MD-MUTCD SECTIONS 3B.11 THROUGH 3B.14 AND MDMUTCD FIGURES 3B-2b AND 3B-7e.



**SIGNING DETAIL 'A'**  
STANDARD NO. MD 104.02-04  
NOT TO SCALE

MOT LEGEND	
	CURRENT STAGE WORK AREA/ PROPOSED CONSTRUCTION
	TEMPORARY TRAFFIC FLOW ARROWS
	EXISTING TRAFFIC FLOW ARROW
	CLOSED LANE
	TYPE III BARRICADE
	CHANNELIZING DEVICE
	ARROW PANEL
	TEMPORARY SIGN & SUPPORT
	TEMPORARY SIGN & SUPPORT TO REMAIN FROM PREVIOUS STAGE
	PORTABLE VARIABLE MESSAGE SIGN (PVMS)
	5 INCH SOLID WHITE TEMPORARY PAVEMENT MARKING PAINT
	5 INCH DASHED WHITE TEMPORARY PAVEMENT MARKING PAINT (3' LINE, 9' SKIP)
	5 INCH DASHED WHITE TEMPORARY PAVEMENT MARKING PAINT (10' LINE, 30' SKIP)
	5 INCH SOLID YELLOW TEMPORARY PAVEMENT MARKING PAINT
	5 INCH DOUBLE SOLID YELLOW TEMPORARY PAVEMENT MARKING PAINT
	24 INCH SOLID WHITE TEMPORARY PAVEMENT MARKING PAINT (STOP BAR)
	WHITE PREFORMED THERMOPLASTIC PAVEMENT MARKING SYMBOLS AND LEGENDS
	REMOVE EXISTING PAVEMENT MARKING

**30% SUBMITTAL**

DATUM: NAD 83/91 HORIZONTAL  
NAVD 88 VERTICAL

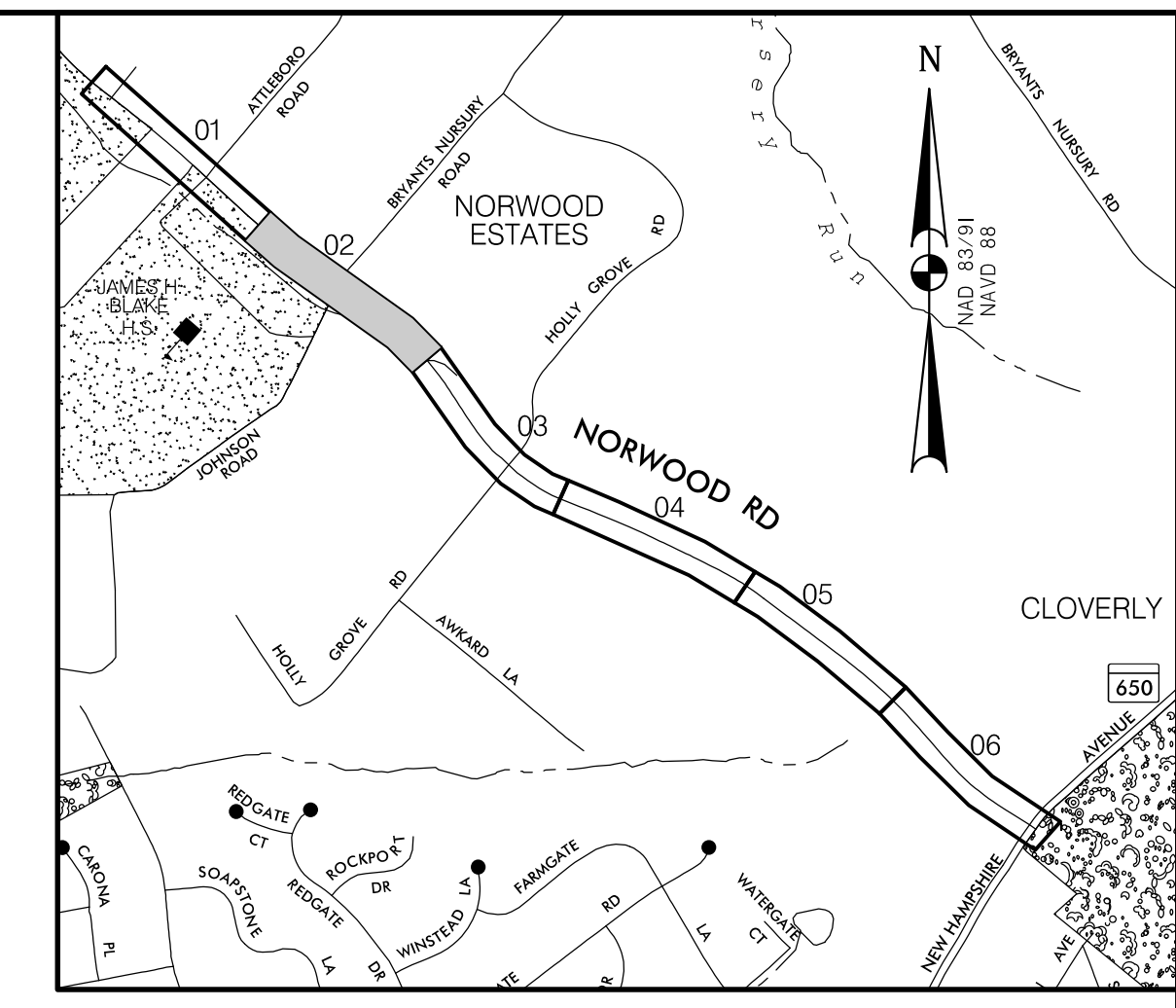
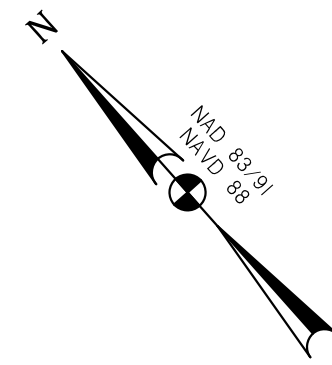
PROFESSIONAL CERTIFICATION	SEAL
I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND. JOHN L. RECTANUS	
LICENSE NO.: 25173	
EXP. DATE: 06 /21 /2025	DATE:

 MONTGOMERY COUNTY DEPARTMENT OF TRANSPORTATION 100 EDISON PARK DRIVE, 4TH FLOOR GAITHERSBURG, MD 20878	
RECOMMENDED FOR APPROVAL	
Chief, Design Section	DATE
APPROVED	
Chief, Division of Engineering Services	DATE
DESIGNED BY: G.N.C.	DRAWN BY: G.N.C.
CHECKED BY: B.R.P.	

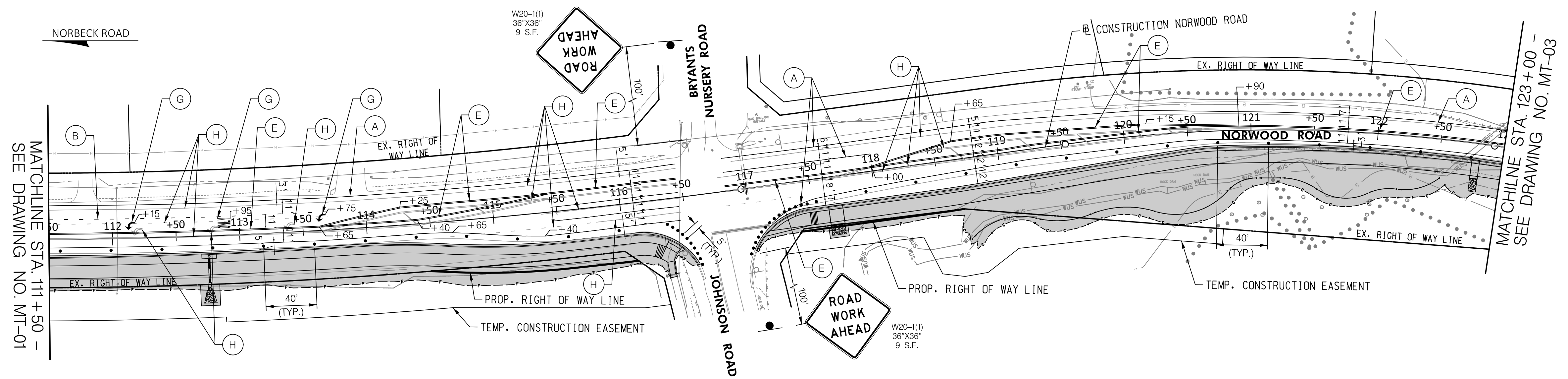
<b>PLAN SHEET MT-01</b> <b>MAINTENANCE OF TRAFFIC PLAN</b> <b>NORWOOD ROAD</b> <b>SHARED USE PATH</b> <b>STA. 100+00 TO STA. 111+50</b>	
SCALE: 1"=50'	DATE: JAN, 2024
PROJECT NO.: C.I.P. # PENDING	SHEET NO. 40 OF 133

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www.WallaceMontgomery.com





**LOCATION MAP**  
SCALE 1"=1000'



MATCHLINE STA. 111+50 -  
SEE DRAWING NO. MT-01

MATCHLINE STA. 123+00 -  
SEE DRAWING NO. MT-03

MOT LEGEND	
	CURRENT STAGE WORK AREA/ PROPOSED CONSTRUCTION
	TEMPORARY TRAFFIC FLOW ARROWS
	EXISTING TRAFFIC FLOW ARROW
	CLOSED LANE
	TYPE III BARRICADE
	CHANNELIZING DEVICE
	ARROW PANEL
	TEMPORARY SIGN & SUPPORT
	TEMPORARY SIGN & SUPPORT TO REMAIN FROM PREVIOUS STAGE
	PORTABLE VARIABLE MESSAGE SIGN (PVMS)
	5 INCH SOLID WHITE TEMPORARY PAVEMENT MARKING PAINT
	5 INCH DASHED WHITE TEMPORARY PAVEMENT MARKING PAINT (3' LINE, 9' SKIP)
	5 INCH DASHED WHITE TEMPORARY PAVEMENT MARKING PAINT (10' LINE, 30' SKIP)
	5 INCH SOLID YELLOW TEMPORARY PAVEMENT MARKING PAINT
	5 INCH DOUBLE SOLID YELLOW TEMPORARY PAVEMENT MARKING PAINT
	24 INCH SOLID WHITE TEMPORARY PAVEMENT MARKING PAINT (STOP BAR)
	WHITE PREFORMED THERMOPLASTIC PAVEMENT MARKING SYMBOLS AND LEGENDS
	REMOVE EXISTING PAVEMENT MARKING

**30% SUBMITTAL**

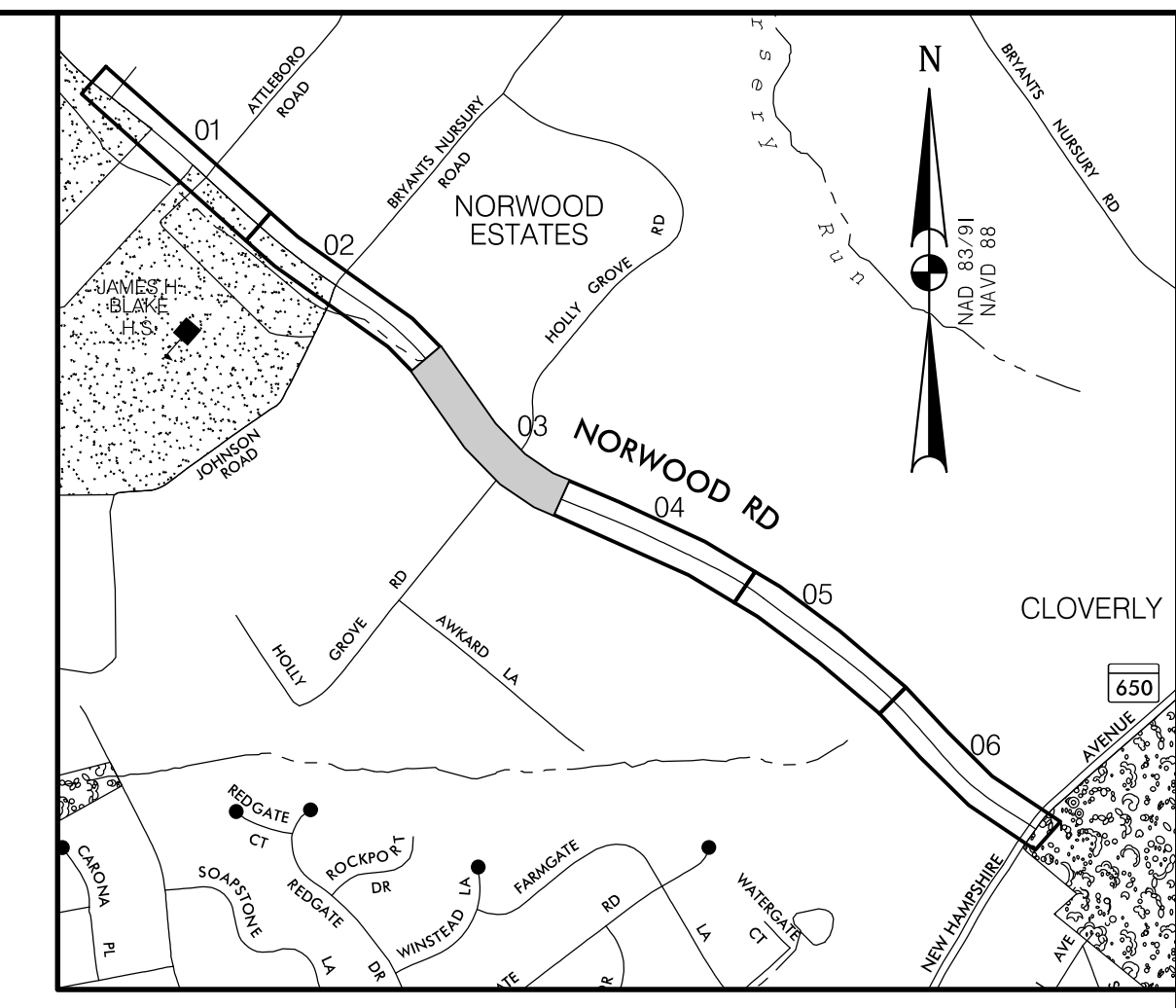
DATUM: NAD 83/91 HORIZONTAL  
NAVD 88 VERTICAL

PROFESSIONAL CERTIFICATION	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. JOHN L. RECTANUS LICENSE NO.: 25173 EXP. DATE: 06 /21 /2025	

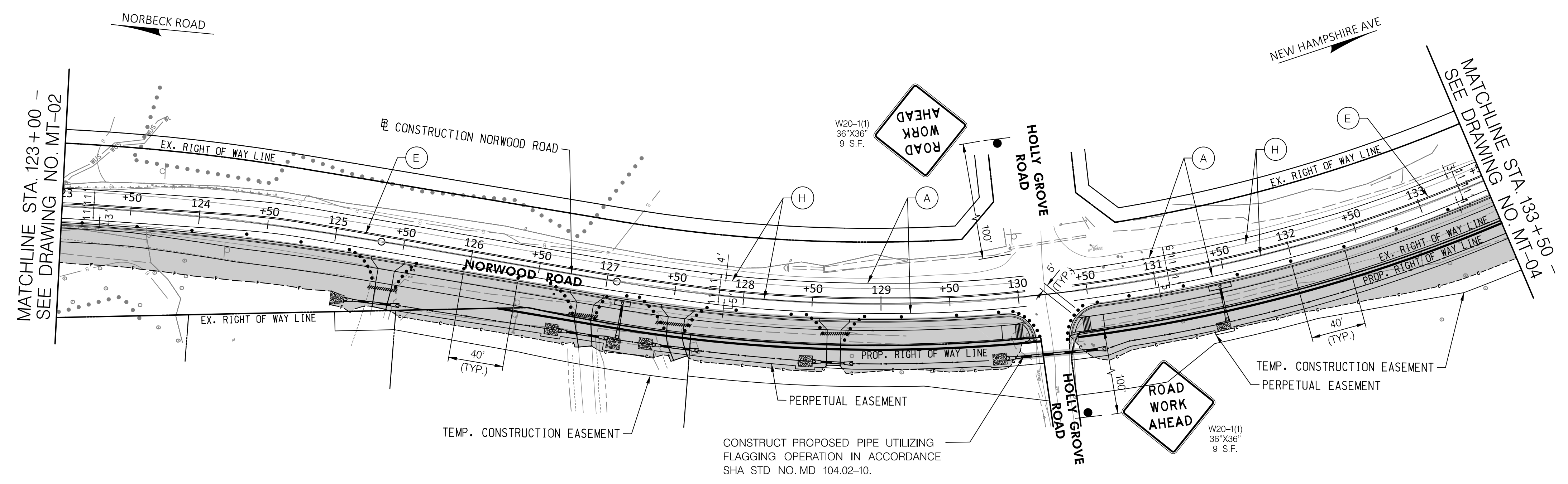
MONTGOMERY COUNTY DEPARTMENT OF TRANSPORTATION 100 EDISON PARK DRIVE, 4TH FLOOR GAITHERSBURG, MD 20878	
RECOMMENDED FOR APPROVAL	
Chief, Design Section	DATE
APPROVED	
Chief, Division of Engineering Services	DATE
DESIGNED BY: G.N.C. DRAWN BY: G.N.C. CHECKED BY: B.R.P.	

<b>PLAN SHEET MT-02</b> <b>MAINTENANCE OF TRAFFIC PLAN</b> <b>NORWOOD ROAD</b> <b>SHARED USE PATH</b> <b>STA. 111+50 TO STA. 123+00</b>	
SCALE : 1"=50'	DATE : JAN, 2024
PROJECT NO.:	C.I.P. # PENDING
SHEET NO. 41	OF 133

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 Hunt Valley, Maryland 21030  
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**LOCATION MAP**  
SCALE 1"=1000'



CONSTRUCT PROPOSED PIPE UTILIZING FLAGGING OPERATION IN ACCORDANCE SHA STD NO. MD 104.02-10.

MOT LEGEND	
	CURRENT STAGE WORK AREA/ PROPOSED CONSTRUCTION
	TEMPORARY TRAFFIC FLOW ARROWS
	EXISTING TRAFFIC FLOW ARROW
	CLOSED LANE
	TYPE III BARRICADE
	CHANNELIZING DEVICE
	ARROW PANEL
	TEMPORARY SIGN & SUPPORT
	TEMPORARY SIGN & SUPPORT TO REMAIN FROM PREVIOUS STAGE
	PORTABLE VARIABLE MESSAGE SIGN (PVMS)
	5 INCH SOLID WHITE TEMPORARY PAVEMENT MARKING PAINT
	5 INCH DASHED WHITE TEMPORARY PAVEMENT MARKING PAINT (3' LINE, 9' SKIP)
	5 INCH DASHED WHITE TEMPORARY PAVEMENT MARKING PAINT (10' LINE, 30' SKIP)
	5 INCH SOLID YELLOW TEMPORARY PAVEMENT MARKING PAINT
	5 INCH DOUBLE SOLID YELLOW TEMPORARY PAVEMENT MARKING PAINT
	24 INCH SOLID WHITE TEMPORARY PAVEMENT MARKING PAINT (STOP BAR)
	WHITE PREFORMED THERMOPLASTIC PAVEMENT MARKING SYMBOLS AND LEGENDS
	REMOVE EXISTING PAVEMENT MARKING

**30% SUBMITTAL**

DATUM: NAD 83/91 HORIZONTAL  
NAVD 88 VERTICAL

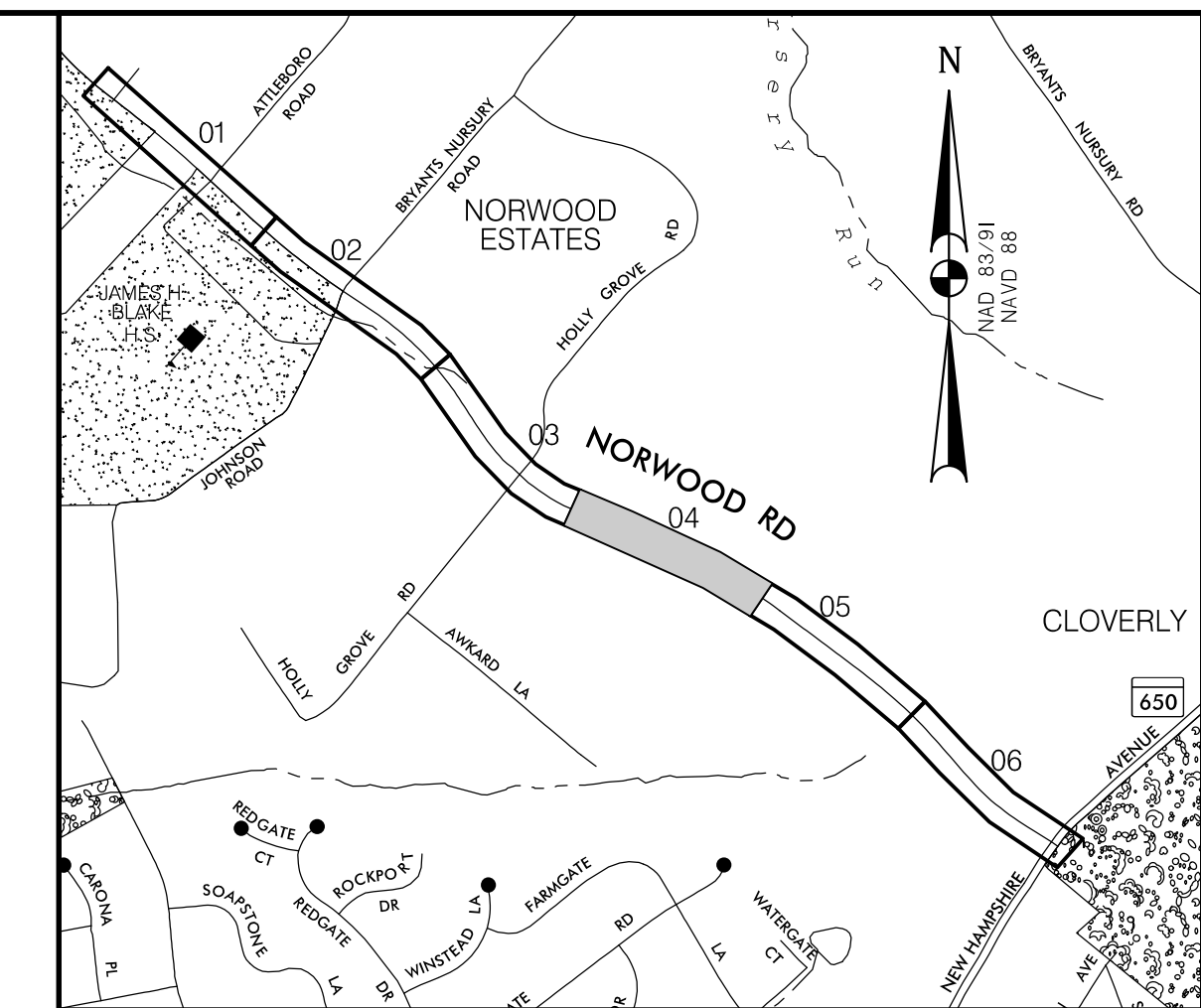
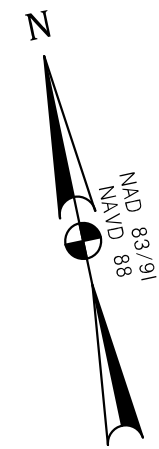
<p>PROFESSIONAL CERTIFICATION</p> <p>I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND. JOHN L. RECTANUS</p> <p>LICENSE NO.: 25173</p> <p>EXP. DATE: 06 / 21 / 2025</p>	<p>SEAL</p>
--	-------------

<p>MONTGOMERY COUNTY DEPARTMENT OF TRANSPORTATION 100 EDISON PARK DRIVE, 4TH FLOOR GAITHERSBURG, MD 20878</p>	<p>RECOMMENDED FOR APPROVAL</p> <p>Chief, Design Section _____ DATE _____</p> <p>APPROVED</p> <p>Chief, Division of Engineering Services _____ DATE _____</p> <p>DESIGNED BY: G.N.C. DRAWN BY: G.N.C. CHECKED BY: B.R.P.</p>
---	--

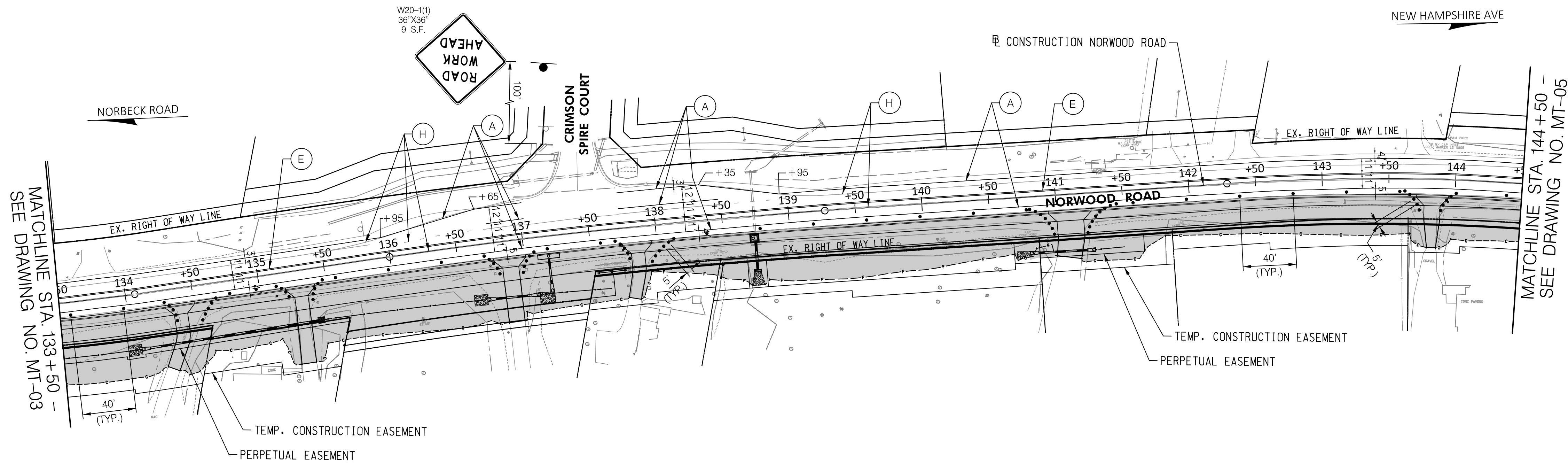
<p><b>PLAN SHEET MT-03</b> <b>MAINTENANCE OF TRAFFIC PLAN</b> <b>NORWOOD ROAD</b> <b>SHARED USE PATH</b> <b>STA. 123+00 TO STA. 133+50</b></p>	
SCALE : 1"=50'	DATE : JAN, 2024
PROJECT NO.:	C.I.P. # PENDING
SHEET NO. 42	OF 133

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BY: gcfitswell-



**LOCATION MAP**  
SCALE 1"=1000'



MATCHLINE STA. 133 + 50 -  
SEE DRAWING NO. MT-03

MATCHLINE STA. 144 + 50 -  
SEE DRAWING NO. MT-05

MOT LEGEND	
	CURRENT STAGE WORK AREA/ PROPOSED CONSTRUCTION
	TEMPORARY TRAFFIC FLOW ARROWS
	EXISTING TRAFFIC FLOW ARROW
	CLOSED LANE
	TYPE III BARRICADE
	CHANNELIZING DEVICE
	ARROW PANEL
	TEMPORARY SIGN & SUPPORT
	TEMPORARY SIGN & SUPPORT TO REMAIN FROM PREVIOUS STAGE
	PORTABLE VARIABLE MESSAGE SIGN (PVMS)
	5 INCH SOLID WHITE TEMPORARY PAVEMENT MARKING PAINT
	5 INCH DASHED WHITE TEMPORARY PAVEMENT MARKING PAINT (3' LINE, 9' SKIP)
	5 INCH DASHED WHITE TEMPORARY PAVEMENT MARKING PAINT (10' LINE, 30' SKIP)
	5 INCH SOLID YELLOW TEMPORARY PAVEMENT MARKING PAINT
	5 INCH DOUBLE SOLID YELLOW TEMPORARY PAVEMENT MARKING PAINT
	24 INCH SOLID WHITE TEMPORARY PAVEMENT MARKING PAINT (STOP BAR)
	WHITE PREFORMED THERMOPLASTIC PAVEMENT MARKING SYMBOLS AND LEGENDS
	REMOVE EXISTING PAVEMENT MARKING

**30% SUBMITTAL**

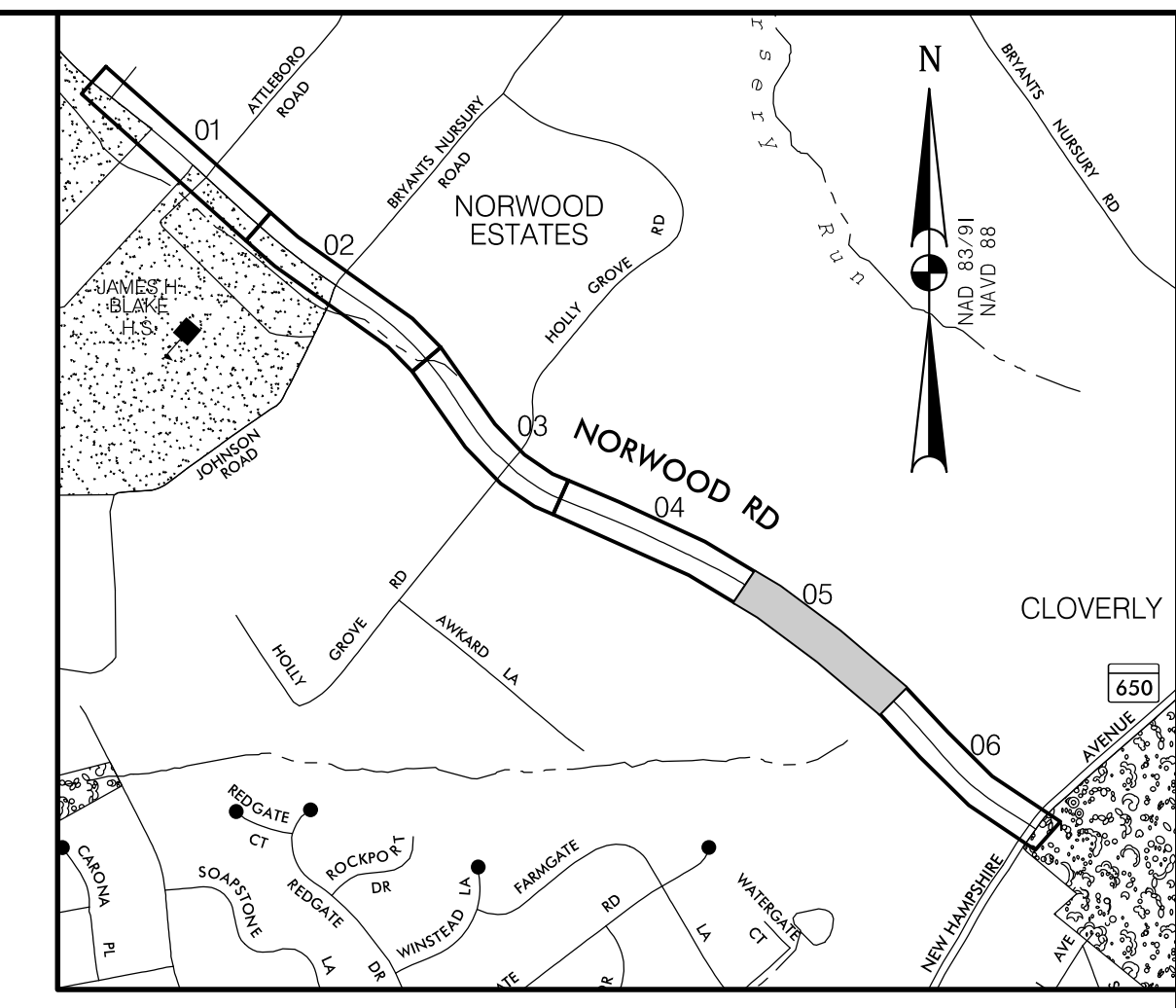
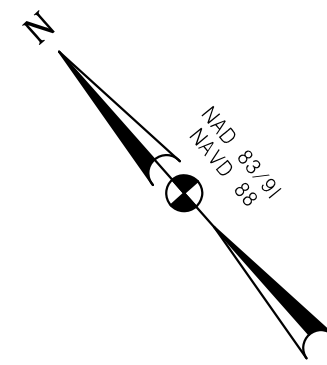
DATUM: NAD 83/91 HORIZONTAL  
NAVD 88 VERTICAL

<p>PROFESSIONAL CERTIFICATION</p> <p>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. JOHN L. RECTANUS</p> <p>LICENSE NO.: 25173</p> <p>EXP. DATE: 06 / 21 / 2025</p>	<p>SEAL</p>
--	-------------

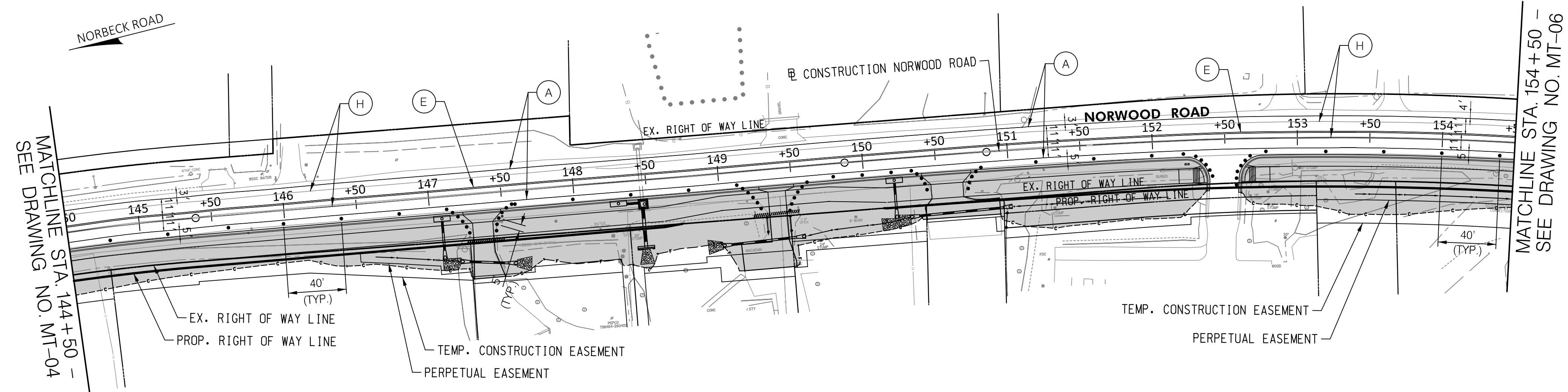
<p>MONTGOMERY COUNTY DEPARTMENT OF TRANSPORTATION 100 EDISON PARK DRIVE, 4TH FLOOR GAITHERSBURG, MD 20878</p> <p>RECOMMENDED FOR APPROVAL</p> <p>Chief, Design Section _____ DATE _____</p> <p>APPROVED</p> <p>Chief, Division of Engineering Services _____ DATE _____</p> <p>DESIGNED BY: G.N.C. DRAWN BY: G.N.C. CHECKED BY: B.R.P.</p>
--

<p><b>PLAN SHEET MT-04</b> <b>MAINTENANCE OF TRAFFIC PLAN</b> <b>NORWOOD ROAD</b> <b>SHARED USE PATH</b> <b>STA. 133+50 STA. 144+50</b></p>	
SCALE : 1"=50'	DATE : JAN, 2024
PROJECT NO.: C.I.P. # PENDING	SHEET NO. 43 OF 133

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**LOCATION MAP**  
SCALE 1"=1000'



MOT LEGEND	
	CURRENT STAGE WORK AREA/ PROPOSED CONSTRUCTION
	TEMPORARY TRAFFIC FLOW ARROWS
	EXISTING TRAFFIC FLOW ARROW
	CLOSED LANE
	TYPE III BARRICADE
	CHANNELIZING DEVICE
	ARROW PANEL
	TEMPORARY SIGN & SUPPORT
	TEMPORARY SIGN & SUPPORT TO REMAIN FROM PREVIOUS STAGE
	PORTABLE VARIABLE MESSAGE SIGN (PVMS)
	5 INCH SOLID WHITE TEMPORARY PAVEMENT MARKING PAINT
	5 INCH DASHED WHITE TEMPORARY PAVEMENT MARKING PAINT (3' LINE, 9' SKIP)
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	5 INCH DOUBLE SOLID YELLOW TEMPORARY PAVEMENT MARKING PAINT
	24 INCH SOLID WHITE TEMPORARY PAVEMENT MARKING PAINT (STOP BAR)
	WHITE PREFORMED THERMOPLASTIC PAVEMENT MARKING SYMBOLS AND LEGENDS
	REMOVE EXISTING PAVEMENT MARKING

**30% SUBMITTAL**

DATUM: NAD 83/91 HORIZONTAL  
NAVD 88 VERTICAL

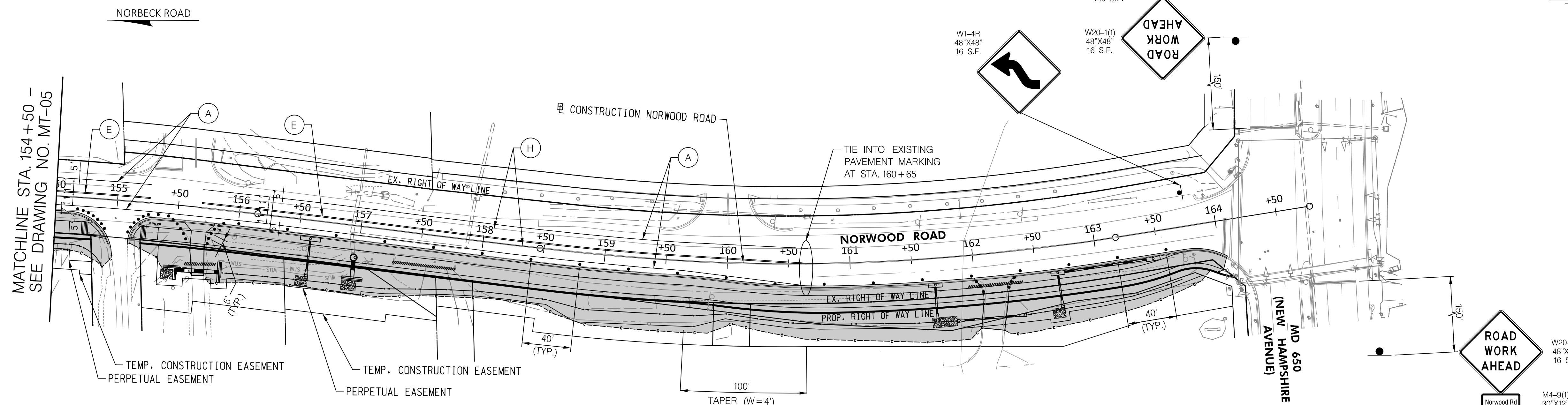
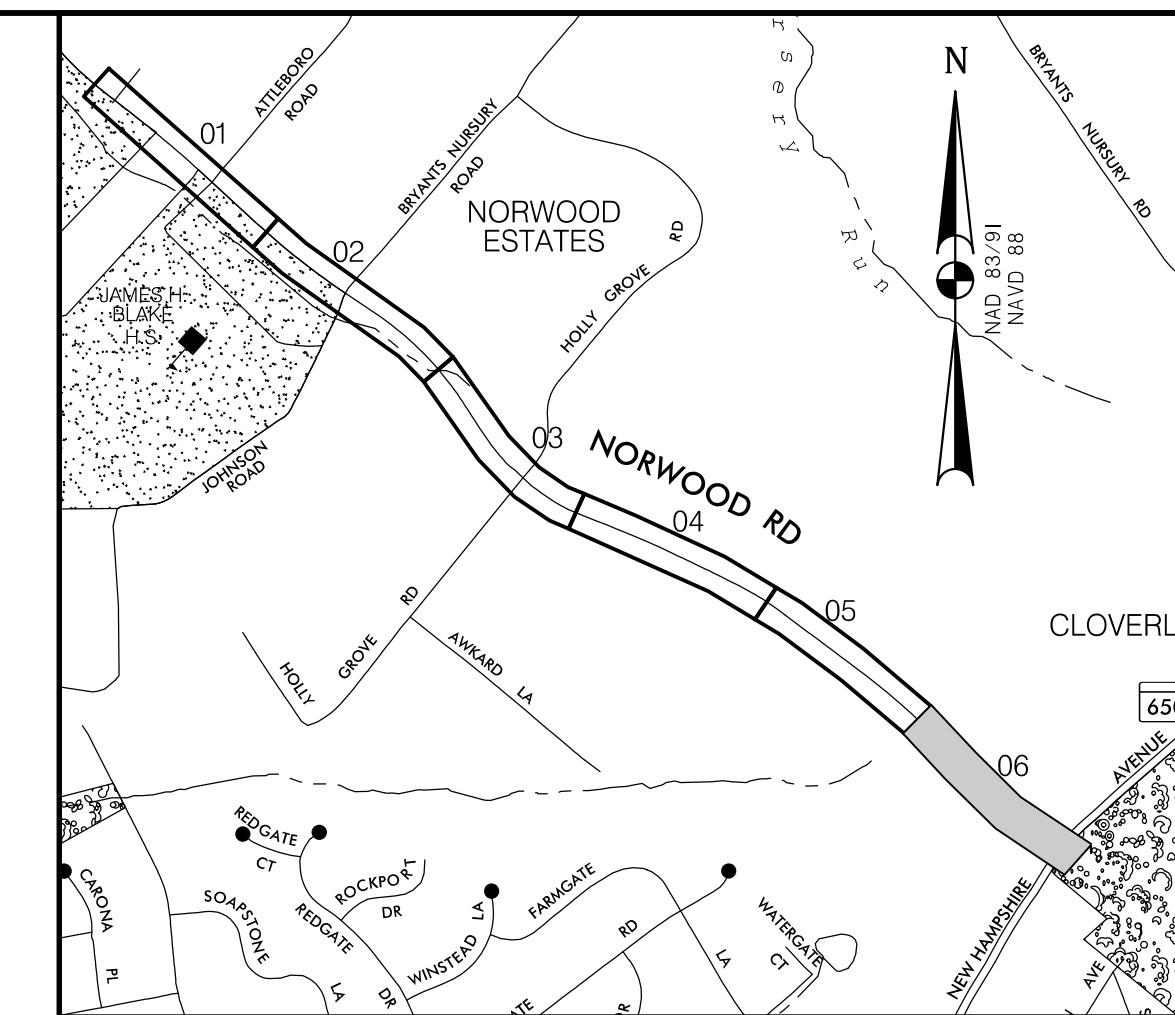
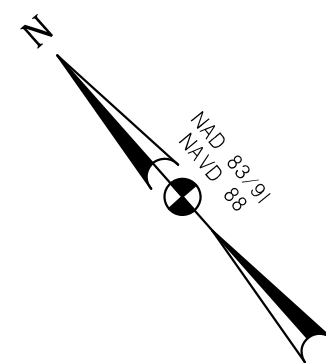
PROFESSIONAL CERTIFICATION	SEAL
I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND. JOHN L. RECTANUS	
LICENSE NO.: 25173	
EXP. DATE: 06/21/2025	DATE:

MONTGOMERY COUNTY DEPARTMENT OF TRANSPORTATION 100 EDISON PARK DRIVE, 4TH FLOOR GAITHERSBURG, MD 20878	
RECOMMENDED FOR APPROVAL	
Chief, Design Section	DATE
APPROVED	
Chief, Division of Engineering Services	DATE
DESIGNED BY: G.N.C.	DRAWN BY: G.N.C.
CHECKED BY: B.R.P.	

<b>PLAN SHEET MT-05</b> <b>MAINTENANCE OF TRAFFIC PLAN</b> <b>NORWOOD ROAD</b> <b>SHARED USE PATH</b> <b>STA. 144+50 TO STA. 154+50</b>	
SCALE: 1"=50'	DATE: JAN, 2024
PROJECT NO.:	C.I.P. # PENDING
SHEET NO. 44	OF 133

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BY: gcrtswell-



MATCHLINE STA. 154+50 - SEE DRAWING NO. MT-05

MOT LEGEND	
	CURRENT STAGE WORK AREA/ PROPOSED CONSTRUCTION
	TEMPORARY TRAFFIC FLOW ARROWS
	EXISTING TRAFFIC FLOW ARROW
	CLOSED LANE
	TYPE III BARRICADE
	CHANNELIZING DEVICE
	ARROW PANEL
	TEMPORARY SIGN & SUPPORT
	TEMPORARY SIGN & SUPPORT TO REMAIN FROM PREVIOUS STAGE
	PORTABLE VARIABLE MESSAGE SIGN (PVMS)
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	24 INCH SOLID WHITE TEMPORARY PAVEMENT MARKING PAINT (STOP BAR)
	WHITE PREFORMED THERMOPLASTIC PAVEMENT MARKING SYMBOLS AND LEGENDS
	REMOVE EXISTING PAVEMENT MARKING

### 30% SUBMITTAL

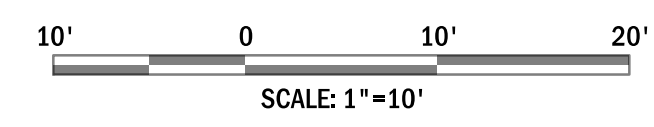
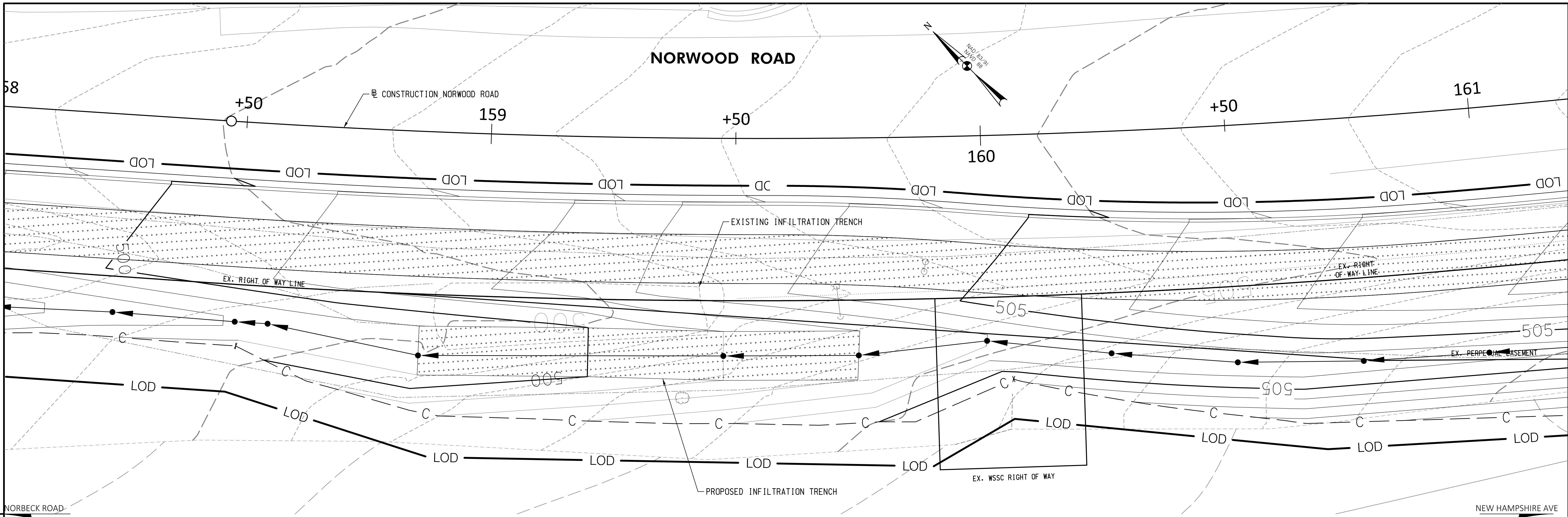
DATUM: NAD 83/91 HORIZONTAL  
NAVD 88 VERTICAL

PROFESSIONAL CERTIFICATION	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. JOHN L. RECTANUS LICENSE NO.: 25173 EXP. DATE: 06/21/2025	DATE:

MONTGOMERY COUNTY DEPARTMENT OF TRANSPORTATION 100 EDISON PARK DRIVE, 4TH FLOOR GAITHERSBURG, MD 20878	
RECOMMENDED FOR APPROVAL	
Chief, Design Section	DATE
APPROVED	
Chief, Division of Engineering Services	DATE
DESIGNED BY: G.N.C.	DRAWN BY: G.N.C.
CHECKED BY: B.R.P.	

<b>PLAN SHEET MT-06</b> <b>MAINTENANCE OF TRAFFIC PLAN</b> <b>NORWOOD ROAD</b> <b>SHARED USE PATH</b> <b>STA. 154+50 TO STA. 164+78</b>	
SCALE: 1"=50'	DATE: JAN, 2024
PROJECT NO.:	C.I.P. # PENDING
SHEET NO. 45	OF 133

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DATUM: NAD 83/91 HORIZONTAL  
NAVD 88 VERTICAL

PROFESSIONAL CERTIFICATION	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. GLENN W. MARSCHKE LICENSE NO.: 16142 EXP. DATE: 08 /17 /2024	DATE:

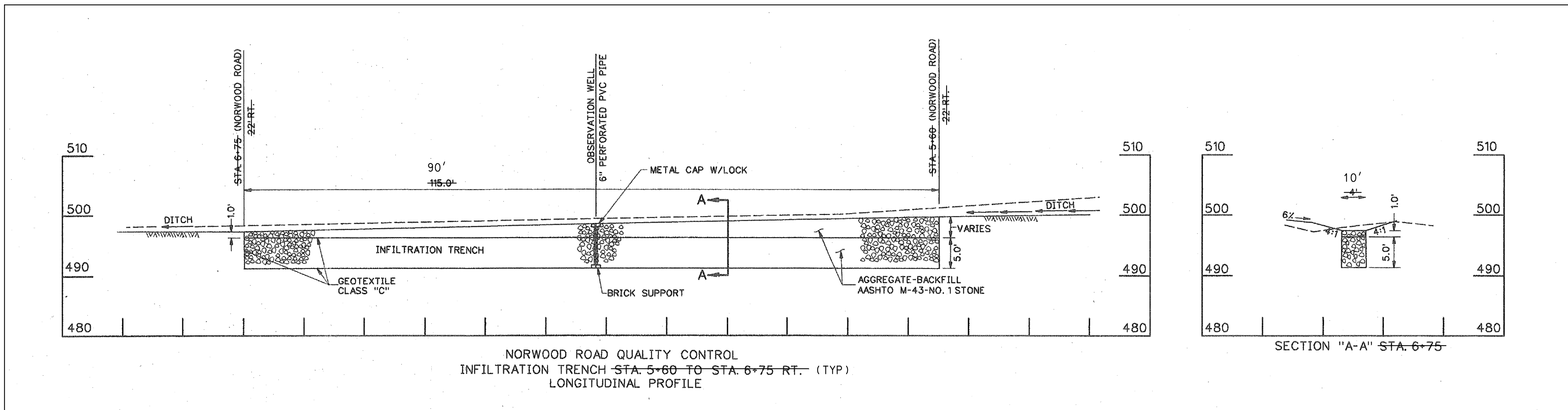
NO.	REVISION	DATE	BY

MONTGOMERY COUNTY DEPARTMENT OF TRANSPORTATION 100 EDISON PARK DRIVE, 4TH FLOOR GAITHERSBURG, MD 20878	
RECOMMENDED FOR APPROVAL	
Chief, Design Section	DATE
APPROVED	
Chief, Division of Engineering Services	DATE
DESIGNED BY: L.E.W.	DRAWN BY: L.E.W. CHECKED BY: G.W.M.

<b>SWM PLAN NORWOOD ROAD SHARED USE PATH</b>	
SCALE :	DATE : JAN, 2024
PROJECT NO.: C.I.P. # PENDING	SHEET NO. OF 133

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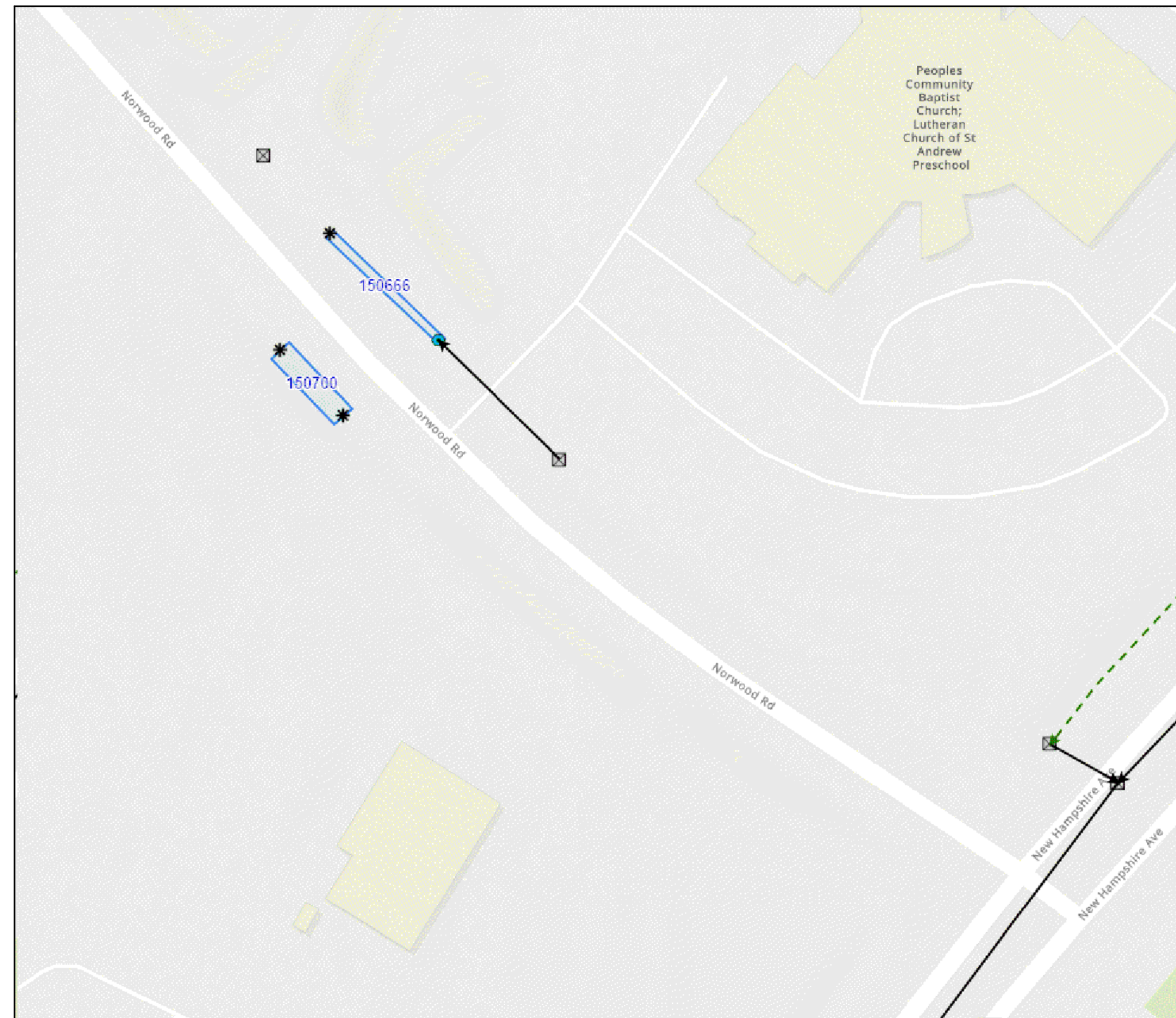
BY: LWildfire



INFILTRATION TRENCH DETAIL: MODIFIED FROM MDOT SHA CONTRACT M-529-501-371

NOTE: ELEVATIONS TO BE MODIFIED FROM ORIGINAL TO THOSE SHOWN ON THE PLAN. MEDIA DEPTH TO REMAIN AS ORIGINALLY PROPOSED. LENGTH AND WIDTH MODIFIED TO MATCH THE MDOT SHA SWM DATABASE ENTRY FOR SWMFAC #150700

<b>SWMFAC 150700</b>	
SWM Facility Number	150700
Legacy SWM Facility Number	15700
Environmental Compliance-Oversight EMD	False
Facility Designation	Infiltration
Designation Subcategory	Infiltration Trench (I-1)
Contract	M-529-501-371 MD-450
Owner	State Highway Administration
MID: Number	
AIX: Location	5166.K1.2009
Legacy AIX Location	
Site Description	131 SIDE NORWOOD ROAD JUST WEST OF 650
Road Name	M13650
Fence Material	No Fence
Ditch Height	0
Observation Well	True
Trench Depth	5.00
Trench Width	10
Trench Length	90
Hazardous Class	
Overall Comments	
1-Year Peak Discharge	0.00
2-Year Peak Discharge	0.00
10-Year Peak Discharge	0.00
100-Year Peak Discharge	0.00
Plan Date	1991
Feature Status	Existing
Date Abandoned	
In-Stream	False
Appearance Comments	
Seepage Control	False
1/4 Mile of Segment	False
County	Montgomery
Maryland Watershed	Washington Metropolitan Area
SHA Maintenance Shop	Fairland
SHA District	District 3
Plan Inspection Area	
Legislative District	District 14
Congressional District	District 8
Maryland Watershed 8 Digit	Anacostia River
Plan Drainage Area	
Date Computed	
As Built Certification Date	
For FMRB	False
JPA	
Underground EISOP	
Number of Existing EISOP	
Landscape Contract	
Original C/I/D	(08379)A67-01-00-4108-A110-51510-011300C3
Facility ID	ch9912e-bd88-ta15-8668-df7a2b79c
Metadata	KCI: (00: 20110107 - CIPS



**30% SUBMITTAL**

DATUM: NAD 83/91 HORIZONTAL  
NAVD 88 VERTICAL

PROFESSIONAL CERTIFICATION	SEAL
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NO.	REVISION	DATE	BY

MONTGOMERY COUNTY DEPARTMENT OF TRANSPORTATION 100 EDISON PARK DRIVE, 4TH FLOOR GAITHERSBURG, MD 20878	
RECOMMENDED FOR APPROVAL	
Chief, Design Section	DATE
APPROVED	
Chief, Division of Engineering Services	DATE
DESIGNED BY: L.E.W.	DRAWN BY: L.E.W. CHECKED BY: G.W.M.

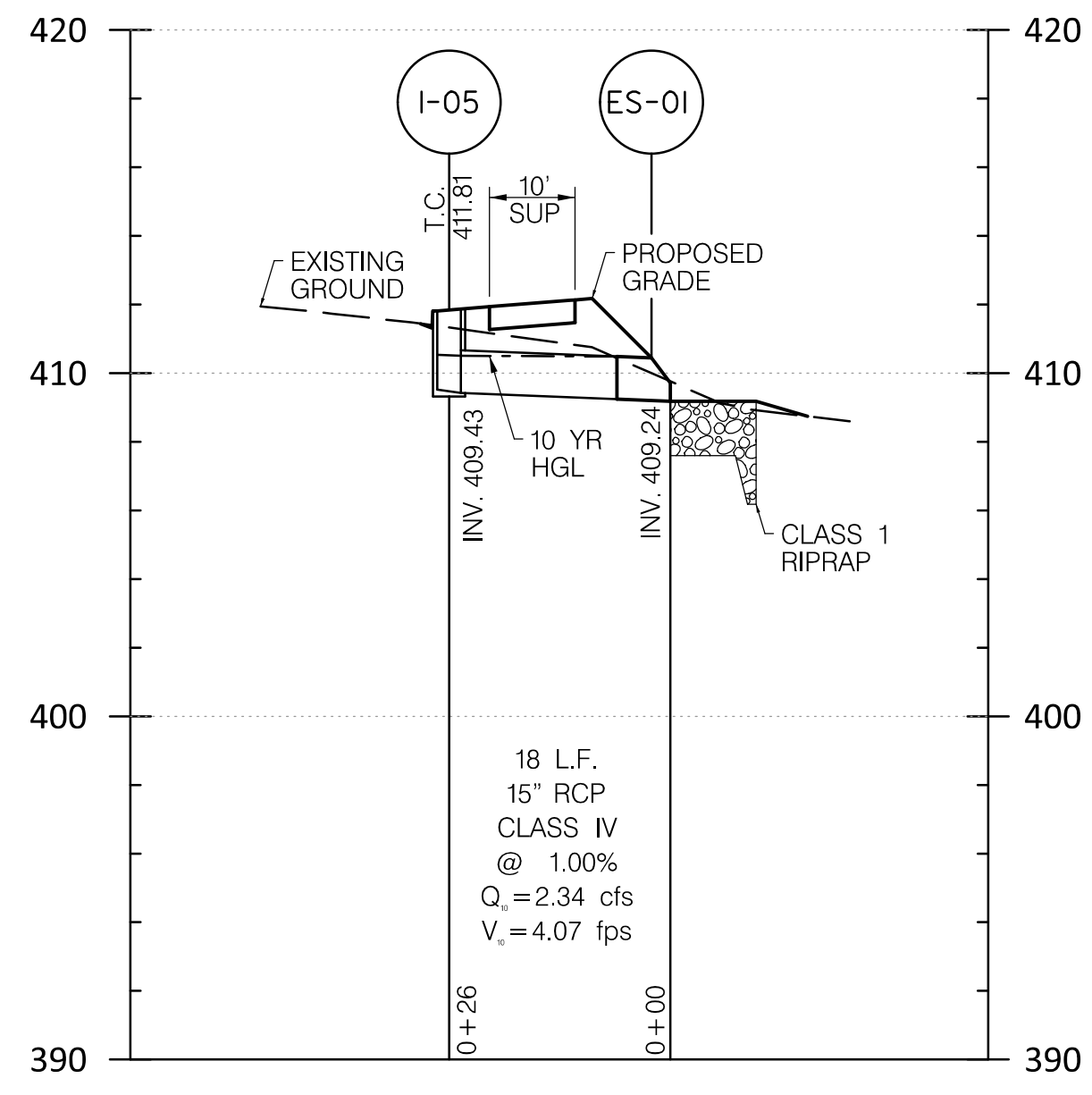
<b>SWM DETAIL NORWOOD ROAD SHARED USE PATH</b>	
SCALE :	DATE : JAN, 2024
PROJECT NO.:	C.I.P. # PENDING
SHEET NO.:	OF 133

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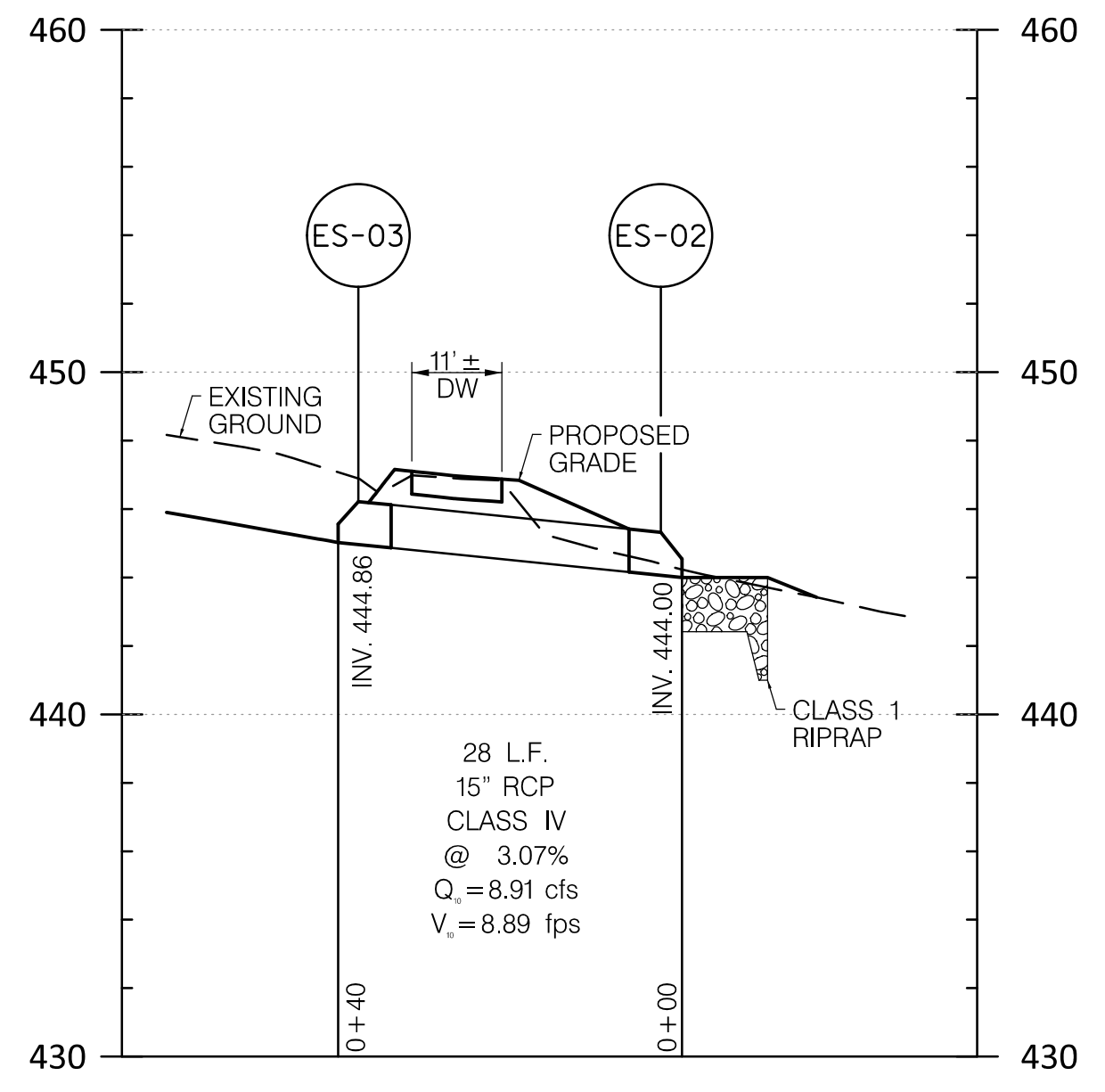






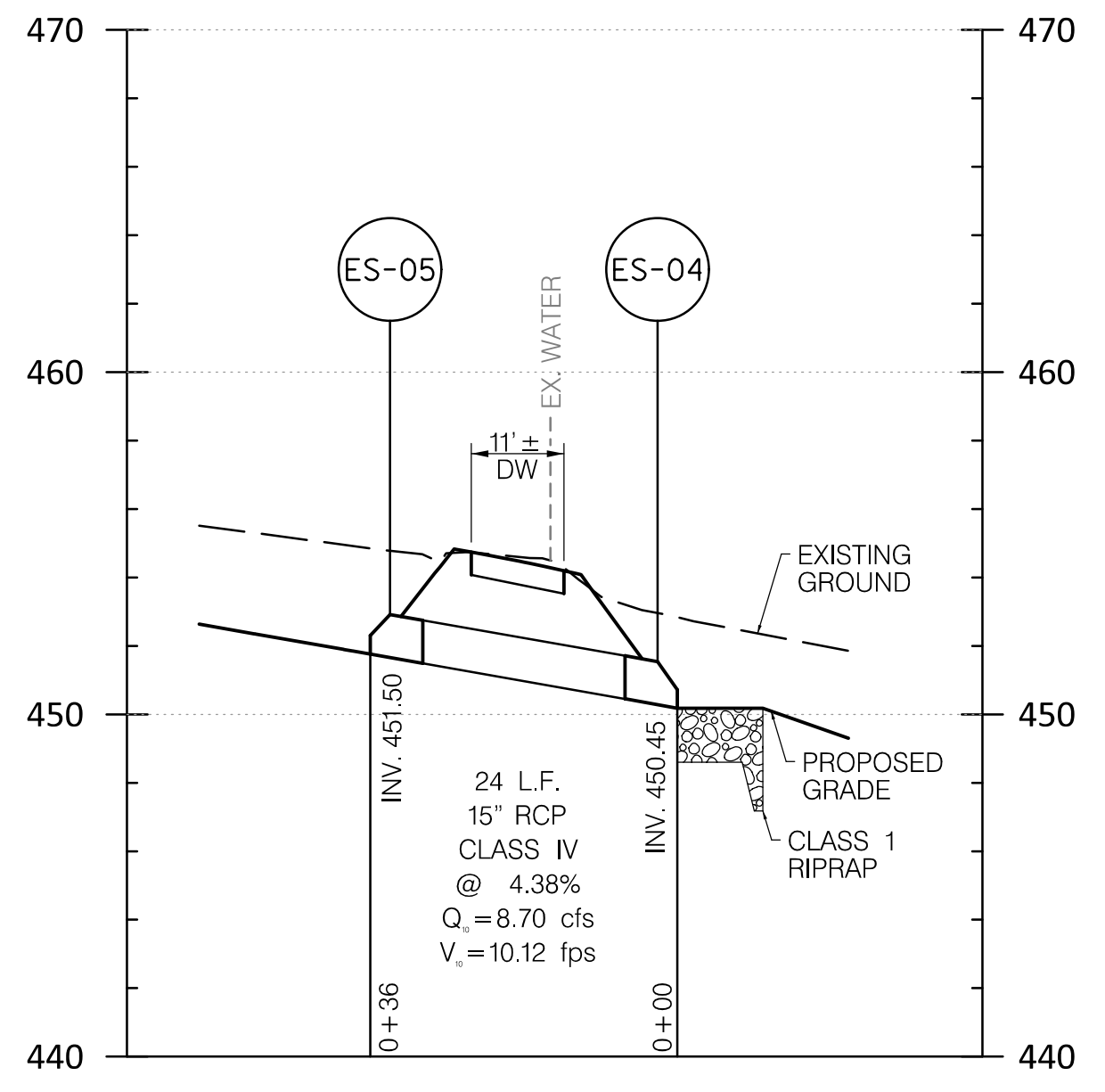
I-05 TO ES-01

SCALE: HOR. 1"=20'  
VERT. 1"=5'



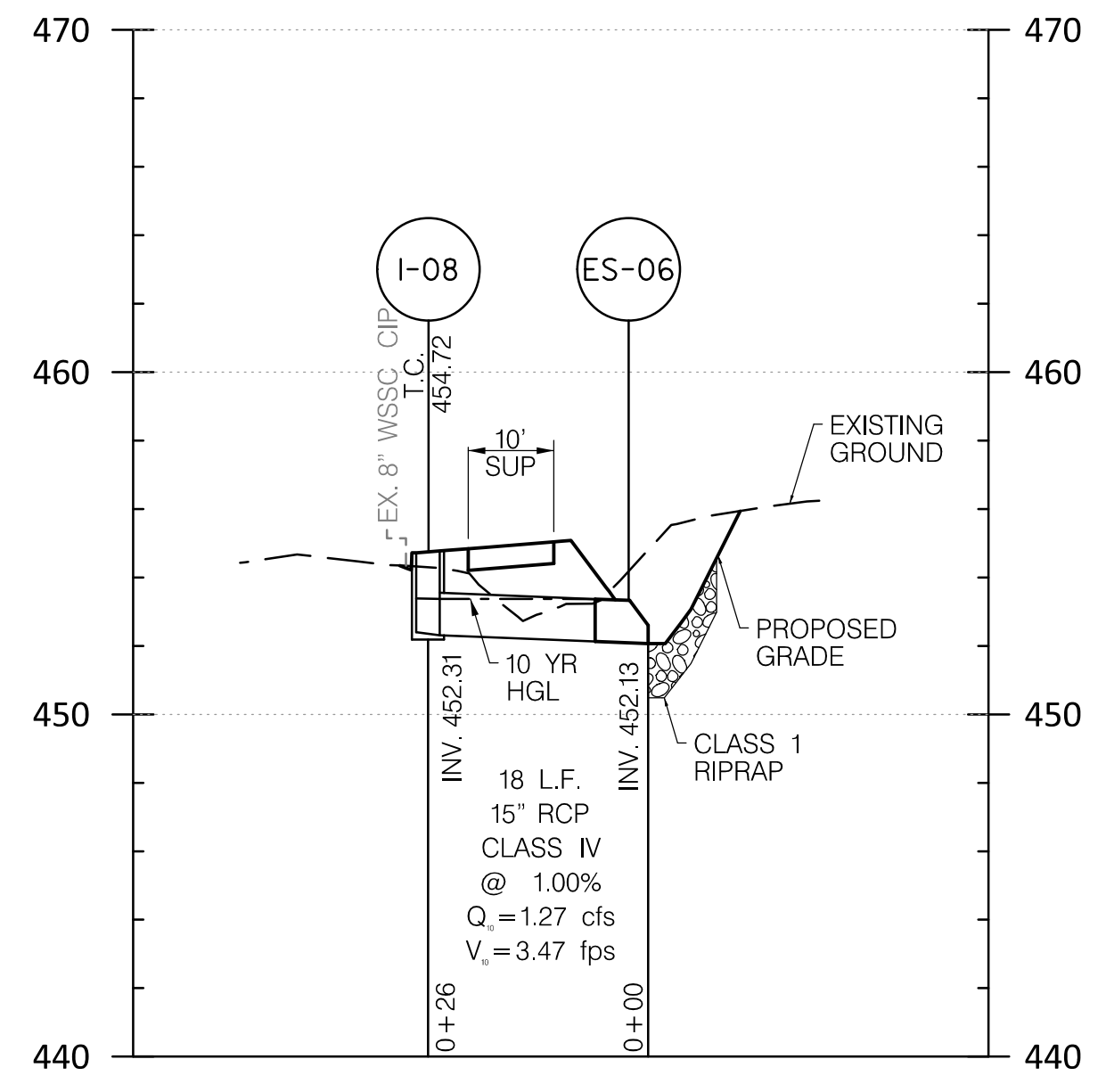
ES-03 TO ES-02

SCALE: HOR. 1"=20'  
VERT. 1"=5'



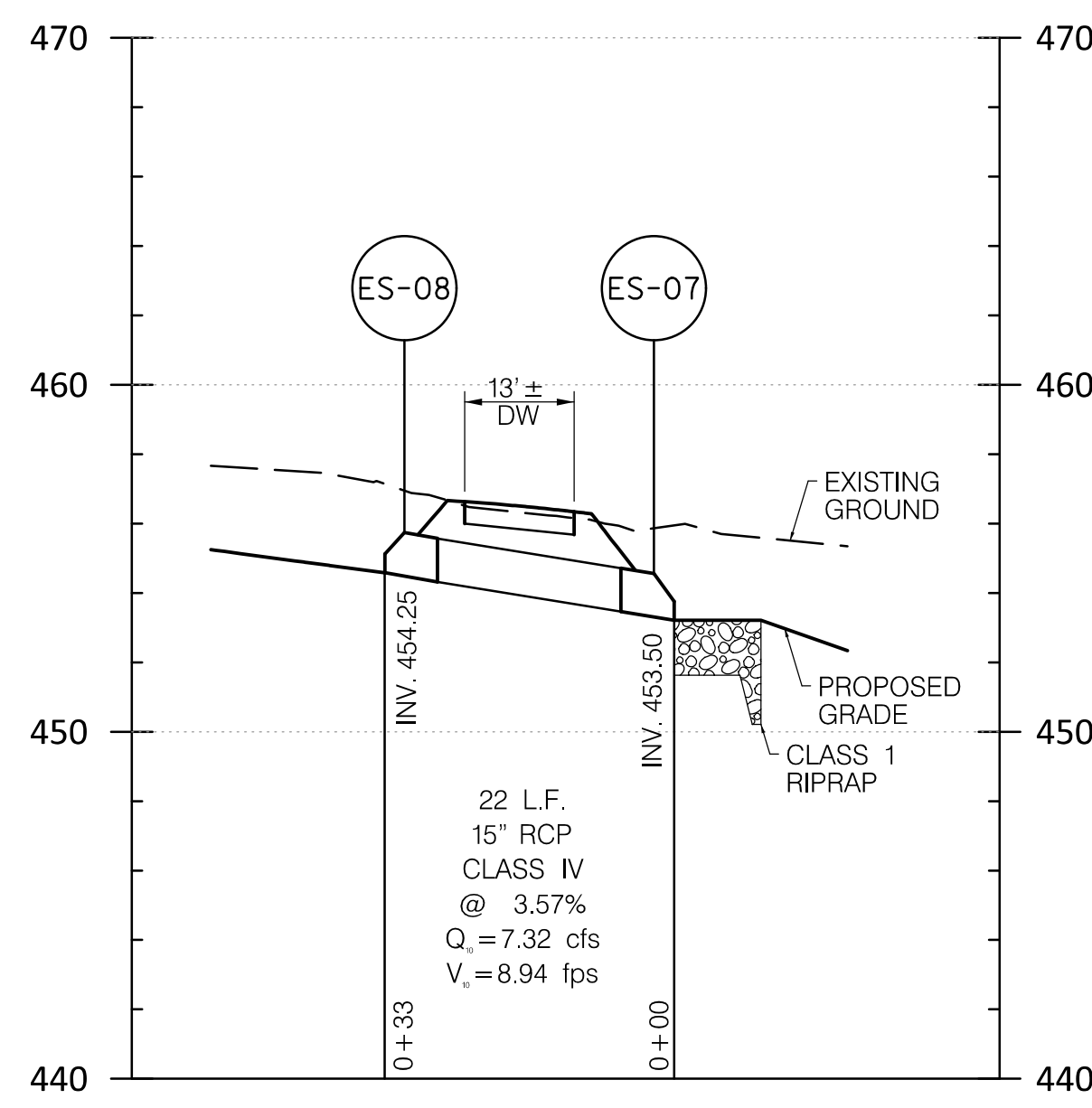
ES-05 TO ES-04

SCALE: HOR. 1"=20'  
VERT. 1"=5'



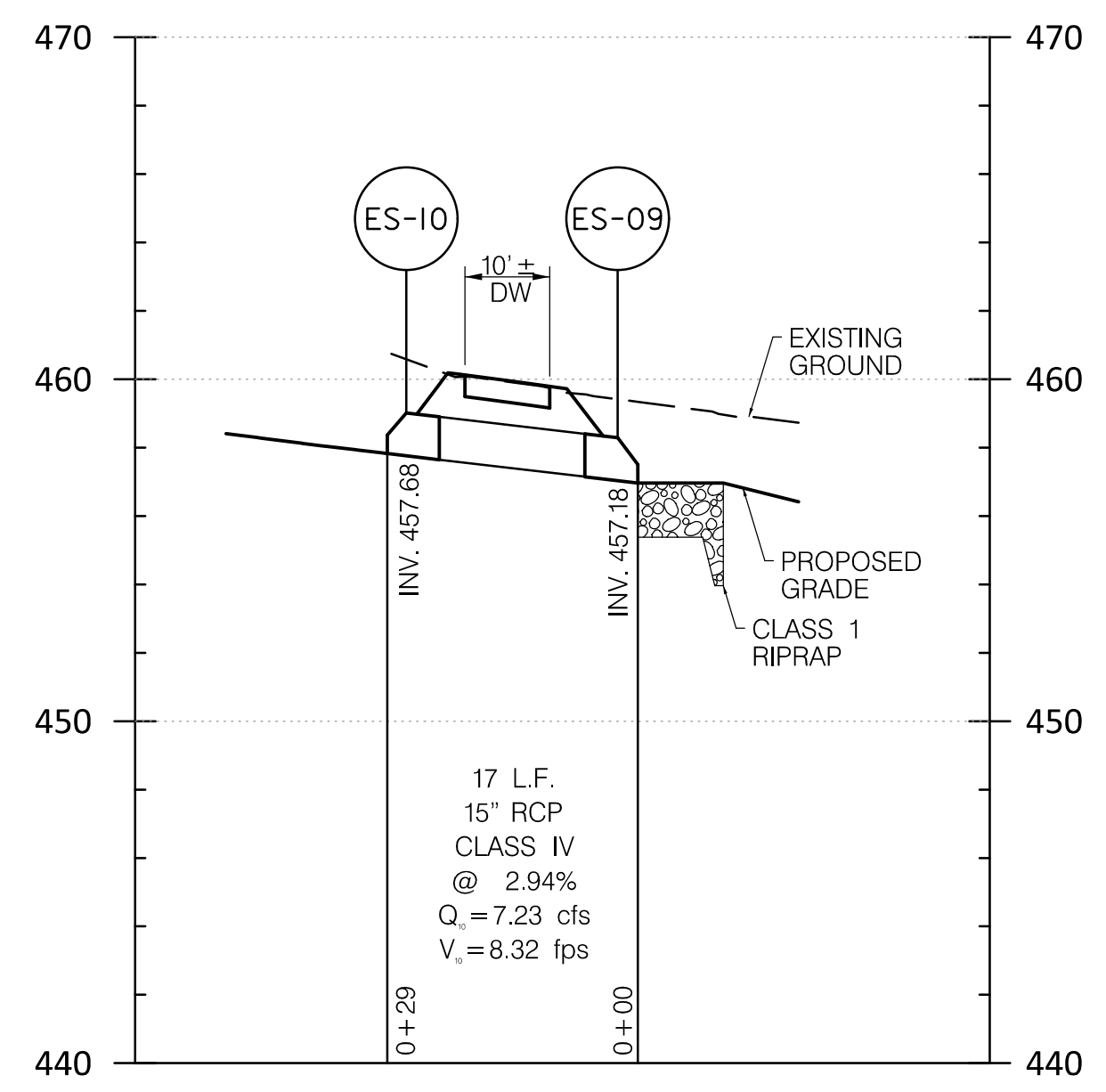
I-08 TO ES-06

SCALE: HOR. 1"=20'  
VERT. 1"=5'



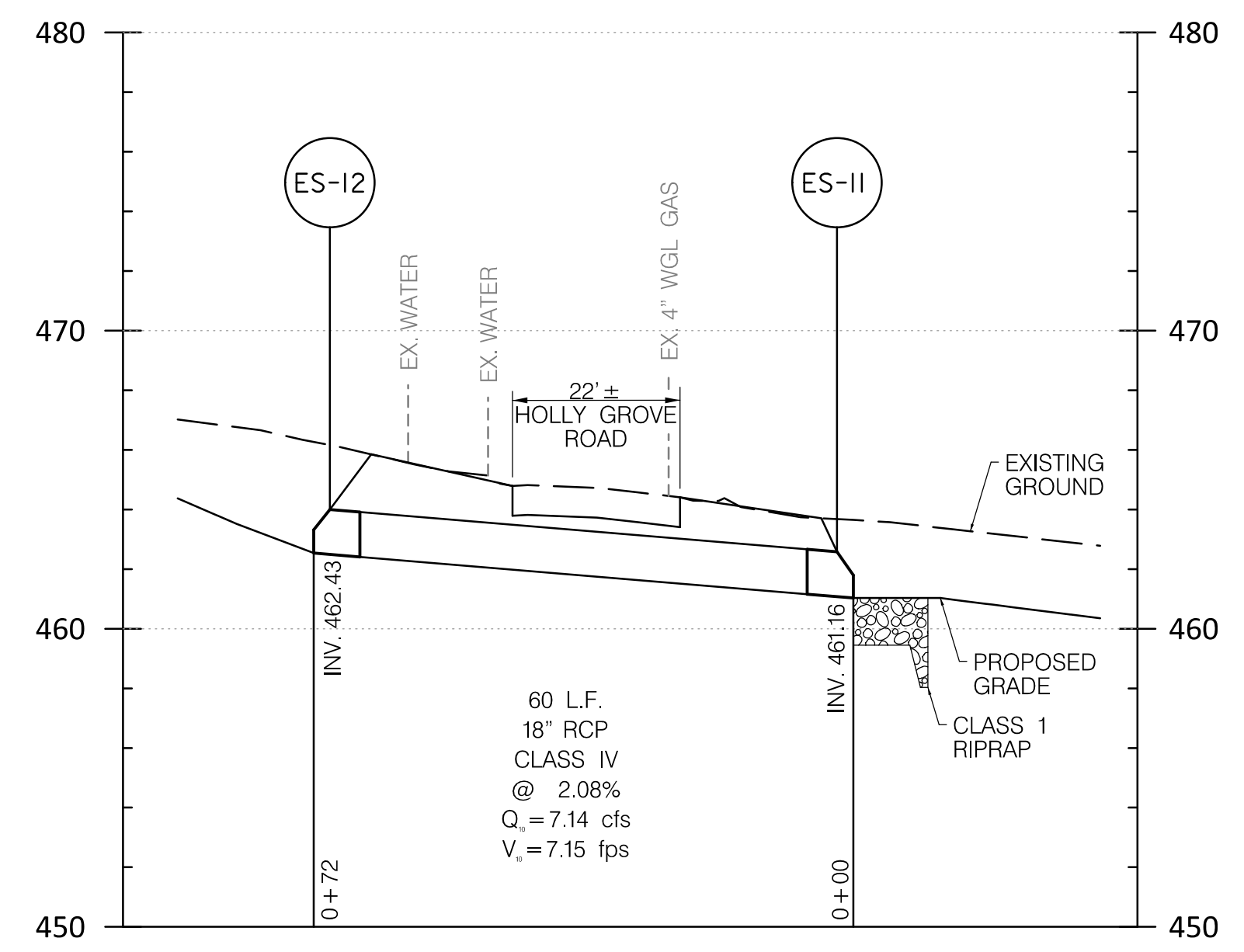
ES-08 TO ES-07

SCALE: HOR. 1"=20'  
VERT. 1"=5'



ES-10 TO ES-09

SCALE: HOR. 1"=20'  
VERT. 1"=5'



ES-12 TO ES-11

SCALE: HOR. 1"=20'  
VERT. 1"=5'

**30% SUBMITTAL**

DATUM: NAD 83/91 HORIZONTAL  
NAVD 88 VERTICAL

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PROFESSIONAL CERTIFICATION  
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LICENSE NO.: 39917  
EXP. DATE: 01/18/2025

SEAL  
STATE OF MARYLAND  
SETH H. DARLINGTON  
No. 39917  
PROFESSIONAL ENGINEER

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

RECOMMENDED FOR APPROVAL

Chief, Design Section DATE  
APPROVED

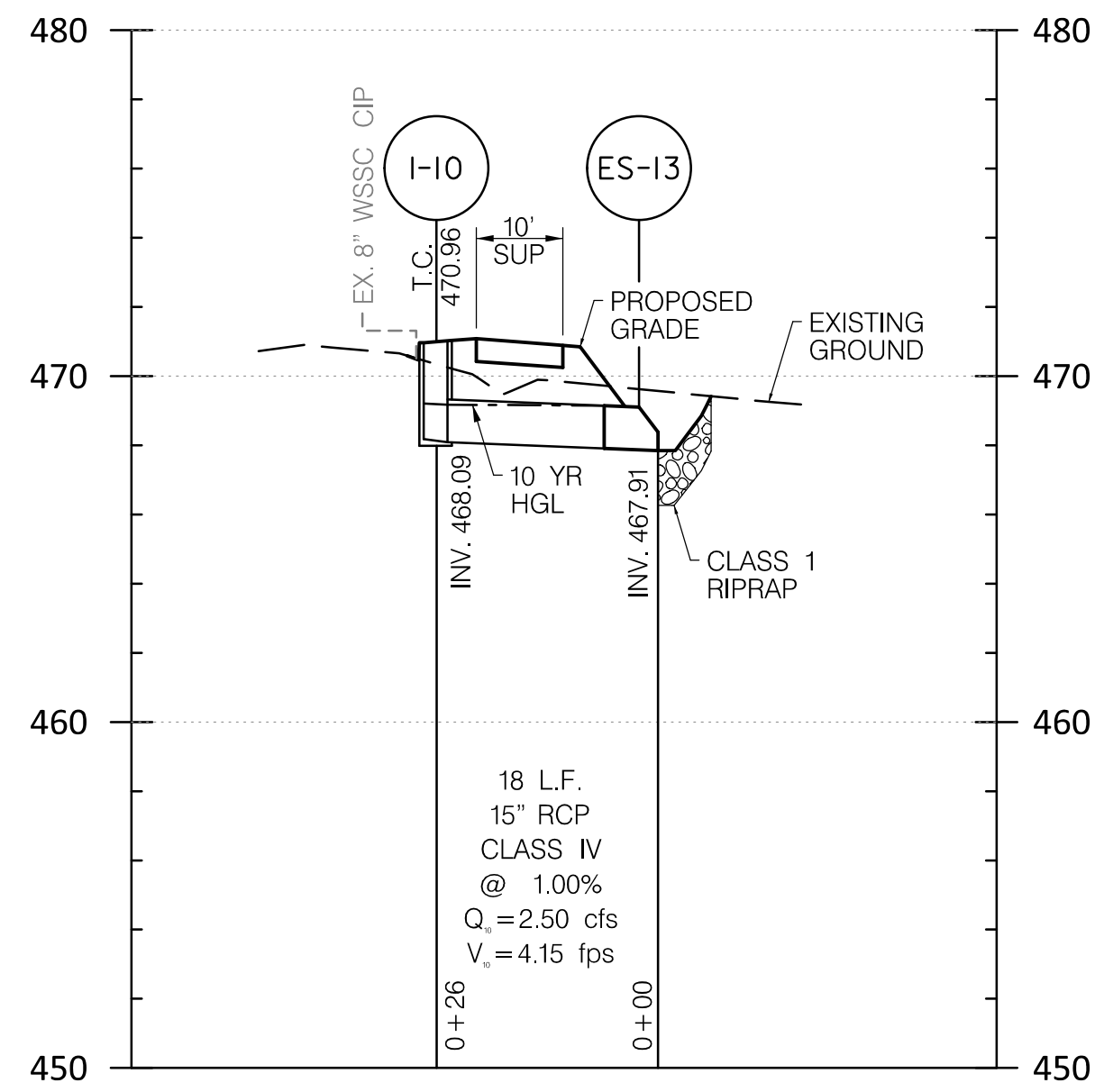
Chief, Division of Engineering Services DATE

DESIGNED BY: L.C.M. DRAWN BY: L.C.M. CHECKED BY: S.H.D.

**PLAN SHEET DP-01  
DRAINAGE PROFILES  
NORWOOD ROAD  
SHARED USE PATH**

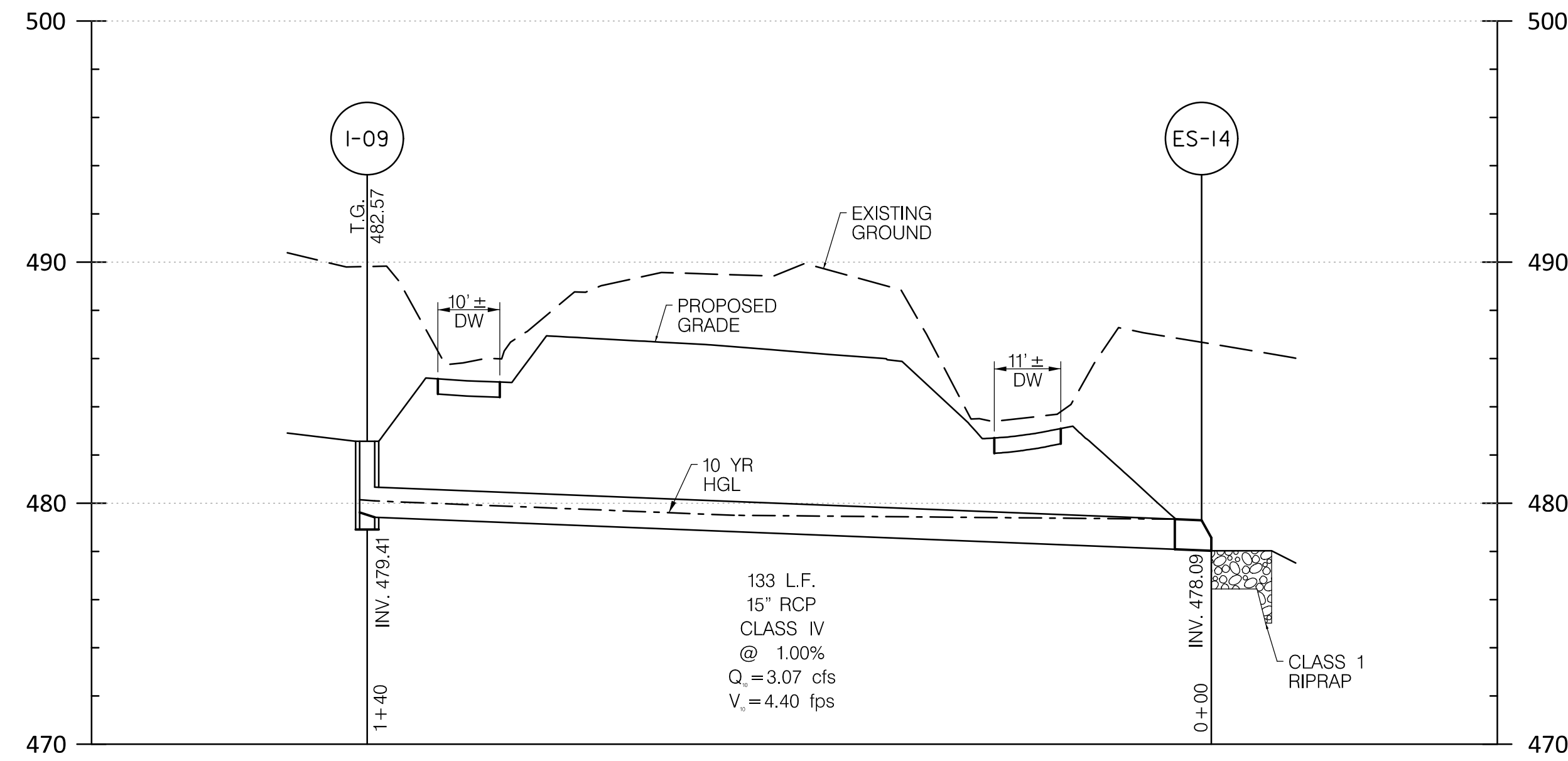
SCALE: AS SHOWN DATE: JAN, 2024  
PROJECT NO.: C.I.P. # PENDING SHEET NO. 52 OF 133

BY: nkern



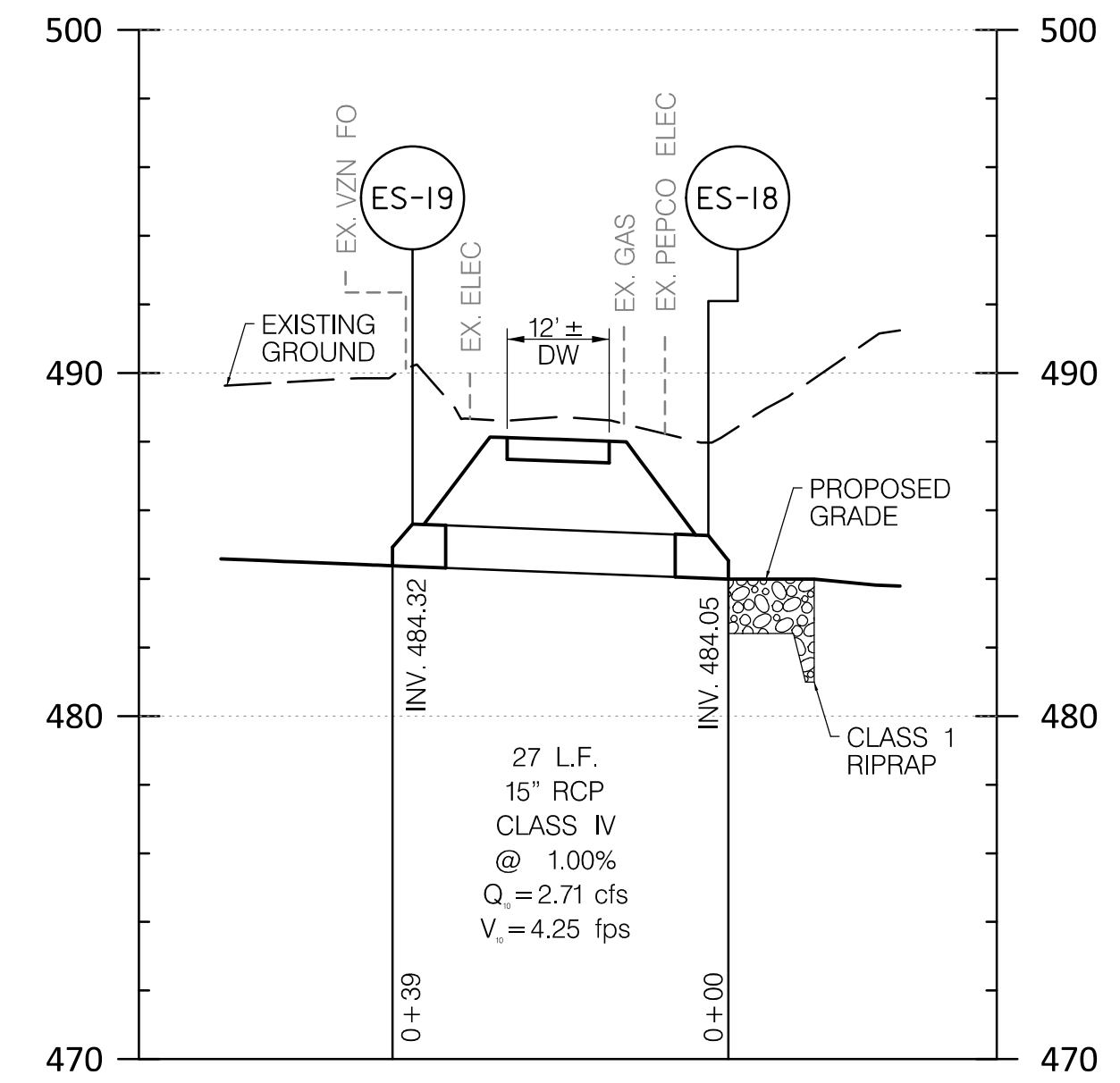
I-10 TO ES-13

SCALE: HOR. 1"=20'  
VERT. 1"=5'



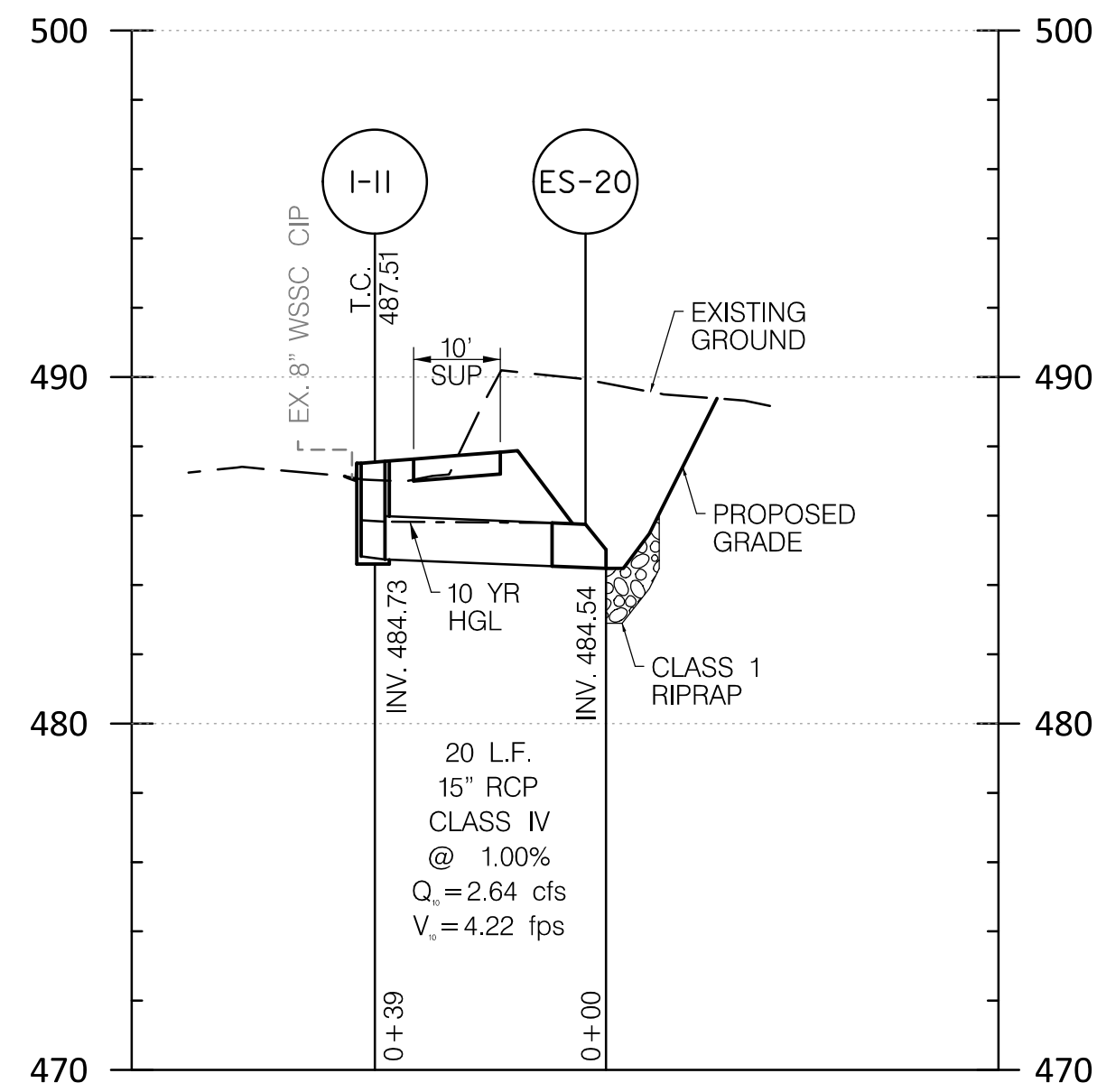
I-09 TO ES-14

SCALE: HOR. 1"=20'  
VERT. 1"=5'



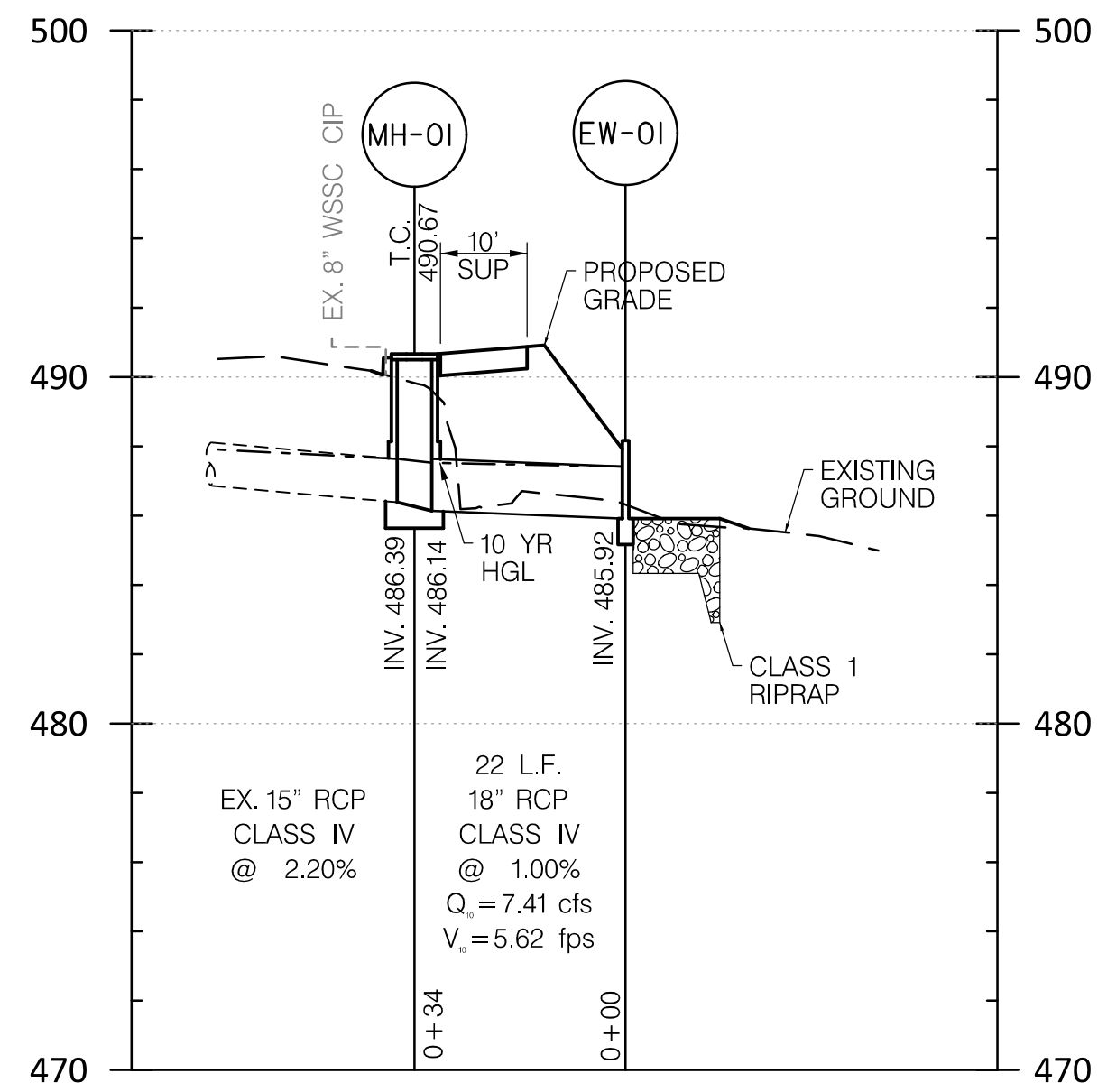
ES-19 TO ES-18

SCALE: HOR. 1"=20'  
VERT. 1"=5'



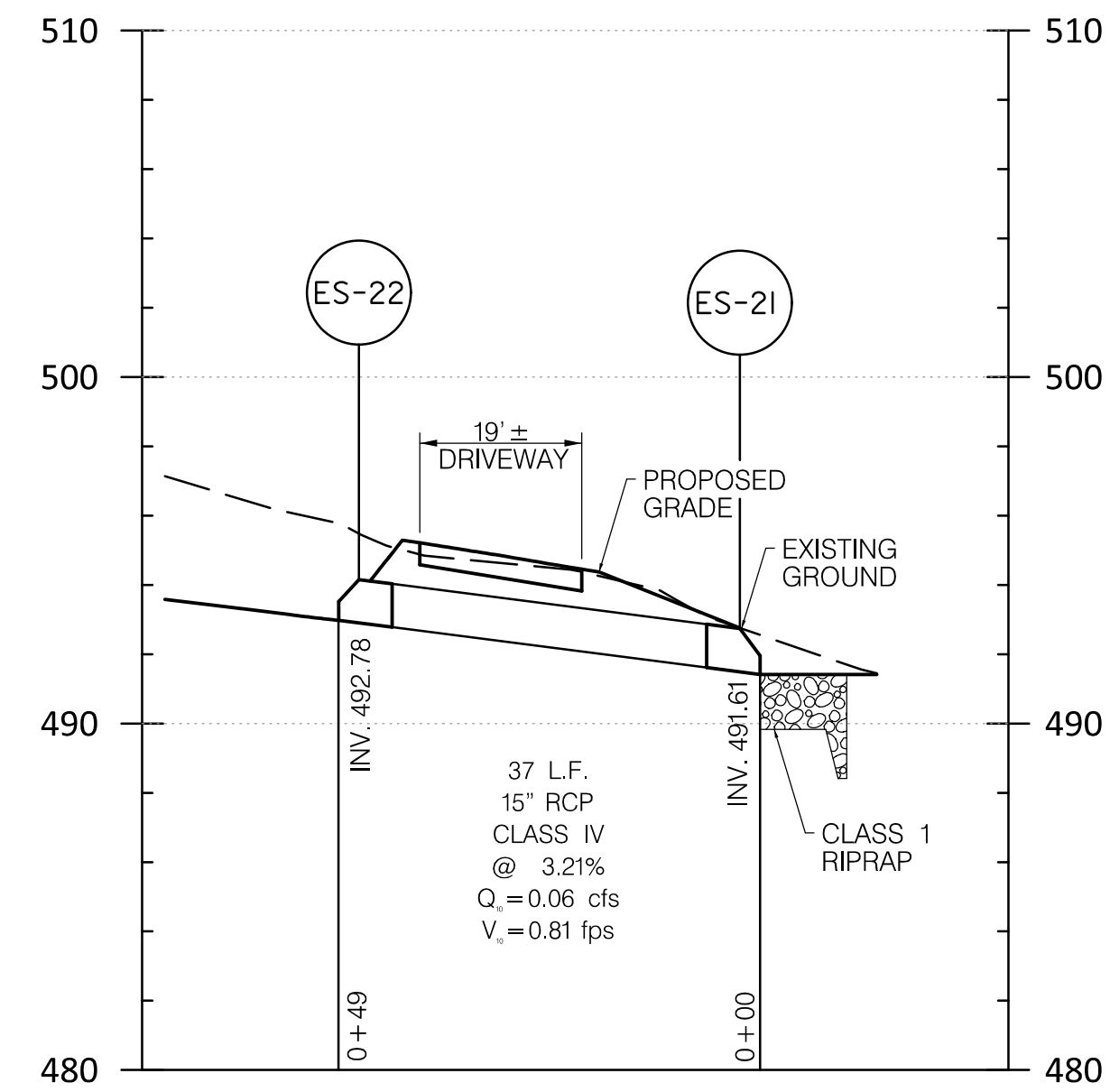
I-11 TO ES-20

SCALE: HOR. 1"=20'  
VERT. 1"=5'



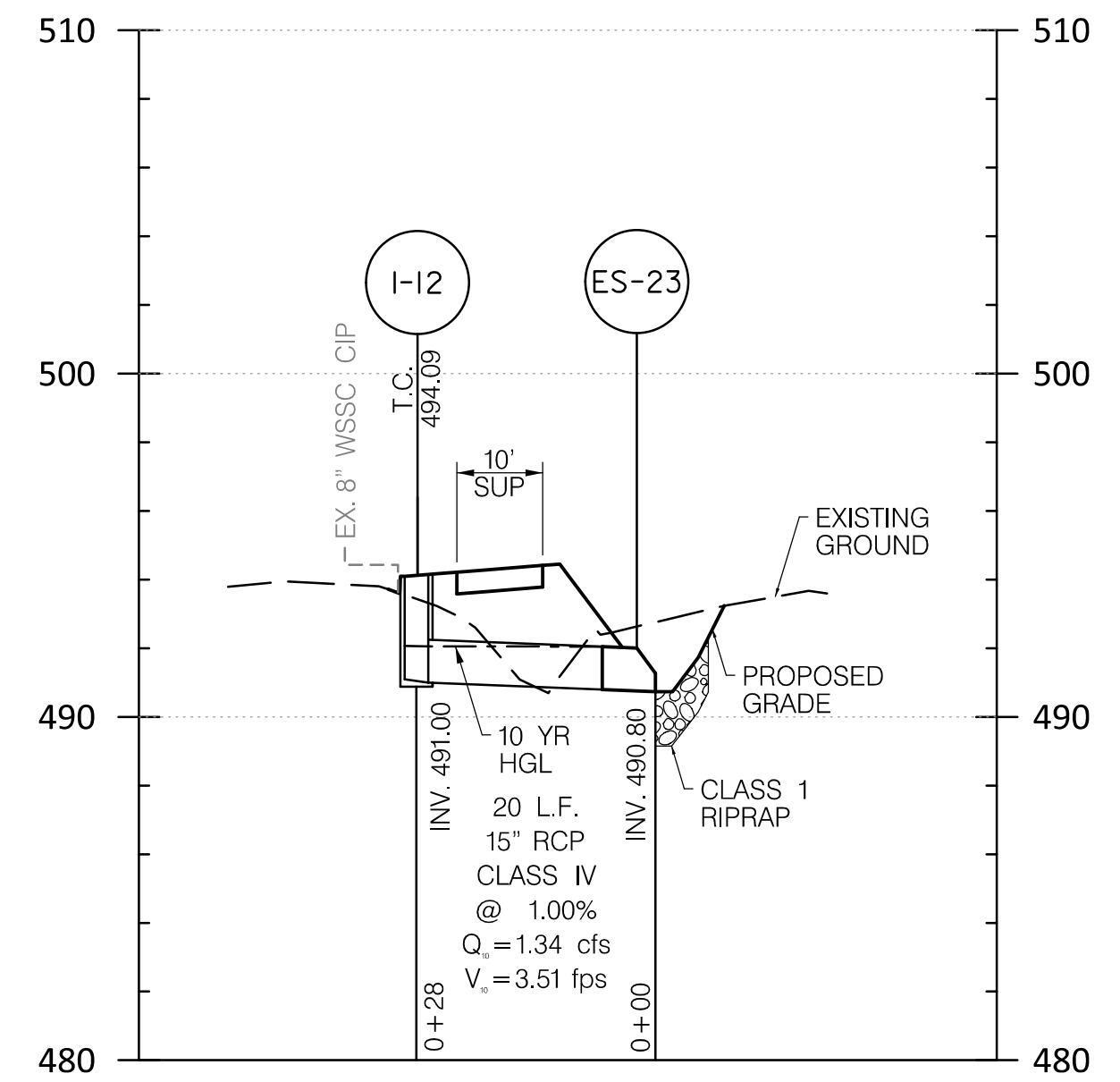
MH-01 TO EW-01

SCALE: HOR. 1"=20'  
VERT. 1"=5'



ES-22 TO ES-21

SCALE: HOR. 1"=20'  
VERT. 1"=5'



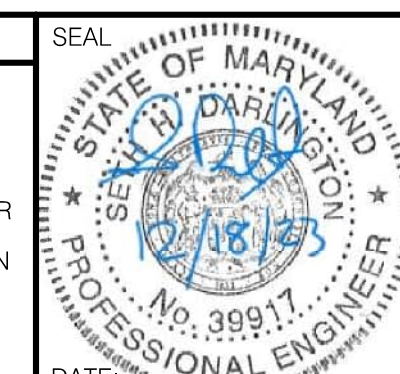
I-12 TO ES-23

SCALE: HOR. 1"=20'  
VERT. 1"=5'

**30% SUBMITTAL**

DATUM: NAD 83/91 HORIZONTAL  
NAVD 88 VERTICAL

PROFESSIONAL CERTIFICATION  
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LICENSE NO.: 39917  
EXP. DATE: 01/18/2025



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

RECOMMENDED FOR APPROVAL

Chief, Design Section \_\_\_\_\_ DATE \_\_\_\_\_  
APPROVED

Chief, Division of Engineering Services \_\_\_\_\_ DATE \_\_\_\_\_

DESIGNED BY: L.C.M. DRAWN BY: L.C.M. CHECKED BY: S.H.D.

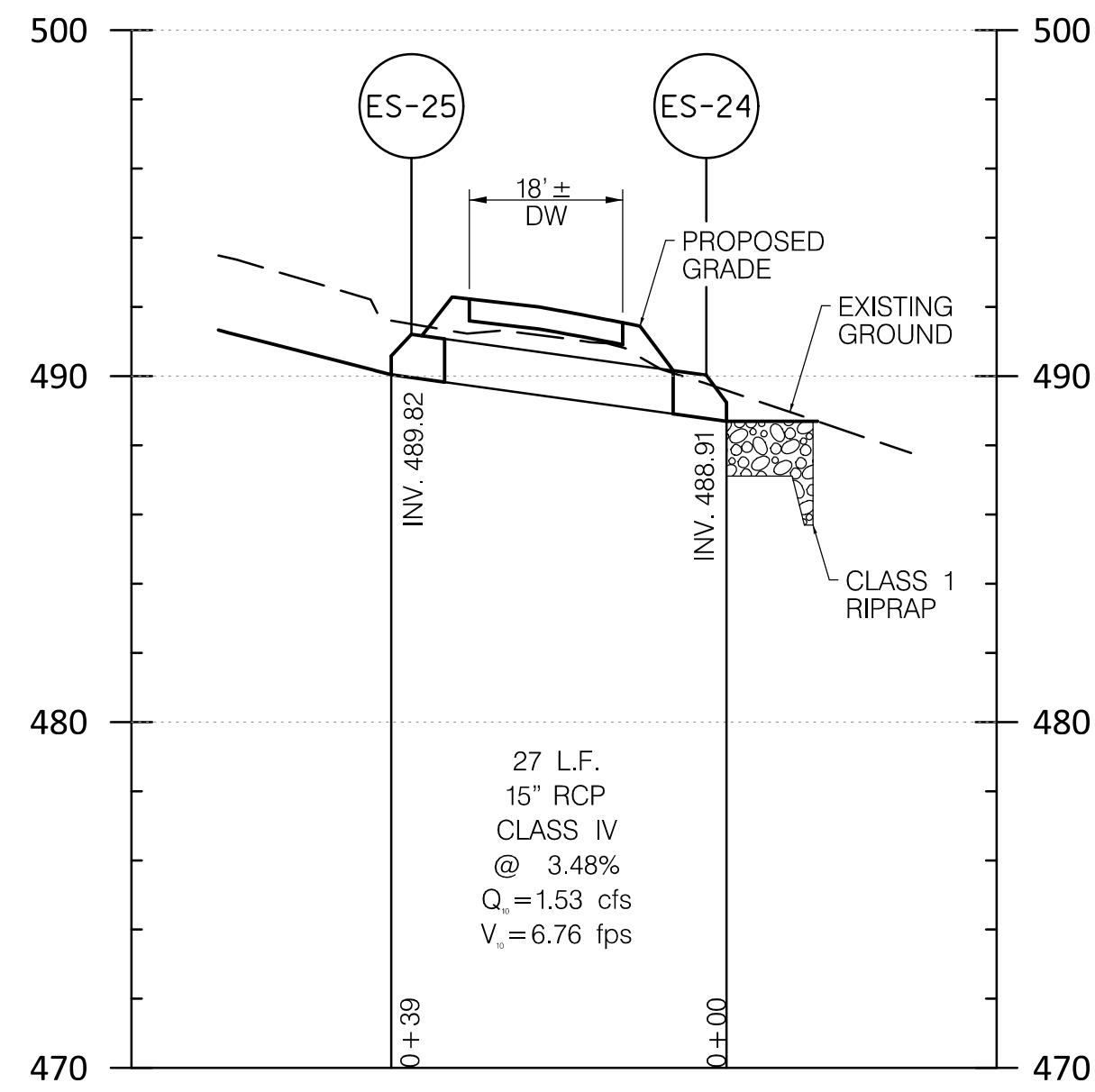
**PLAN SHEET DP-02  
DRAINAGE PROFILES  
NORWOOD ROAD  
SHARED USE PATH**

SCALE: AS SHOWN DATE: JAN, 2024

PROJECT NO.: C.I.P. # PENDING SHEET NO. 53 OF 133

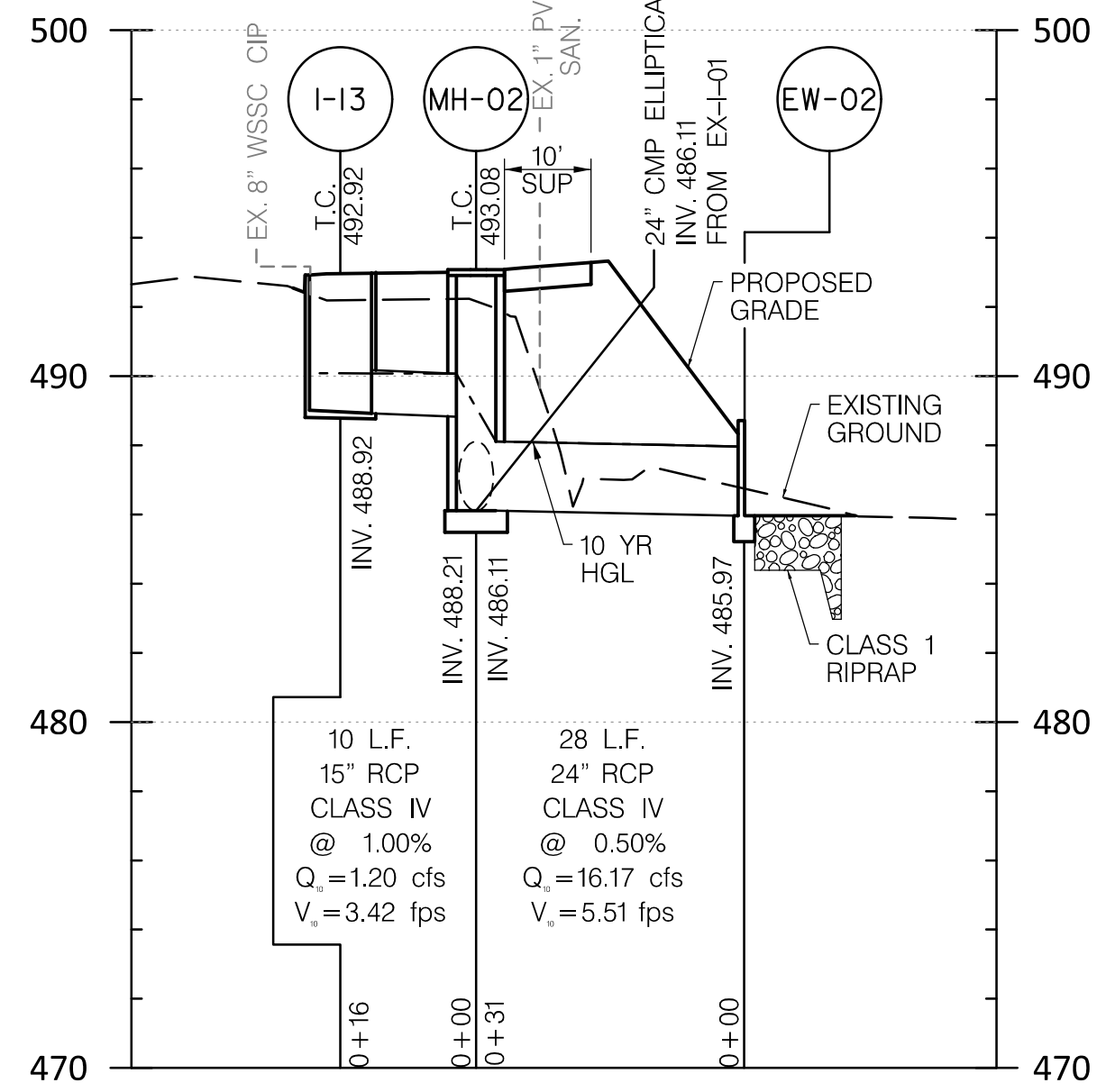
BY: nkern

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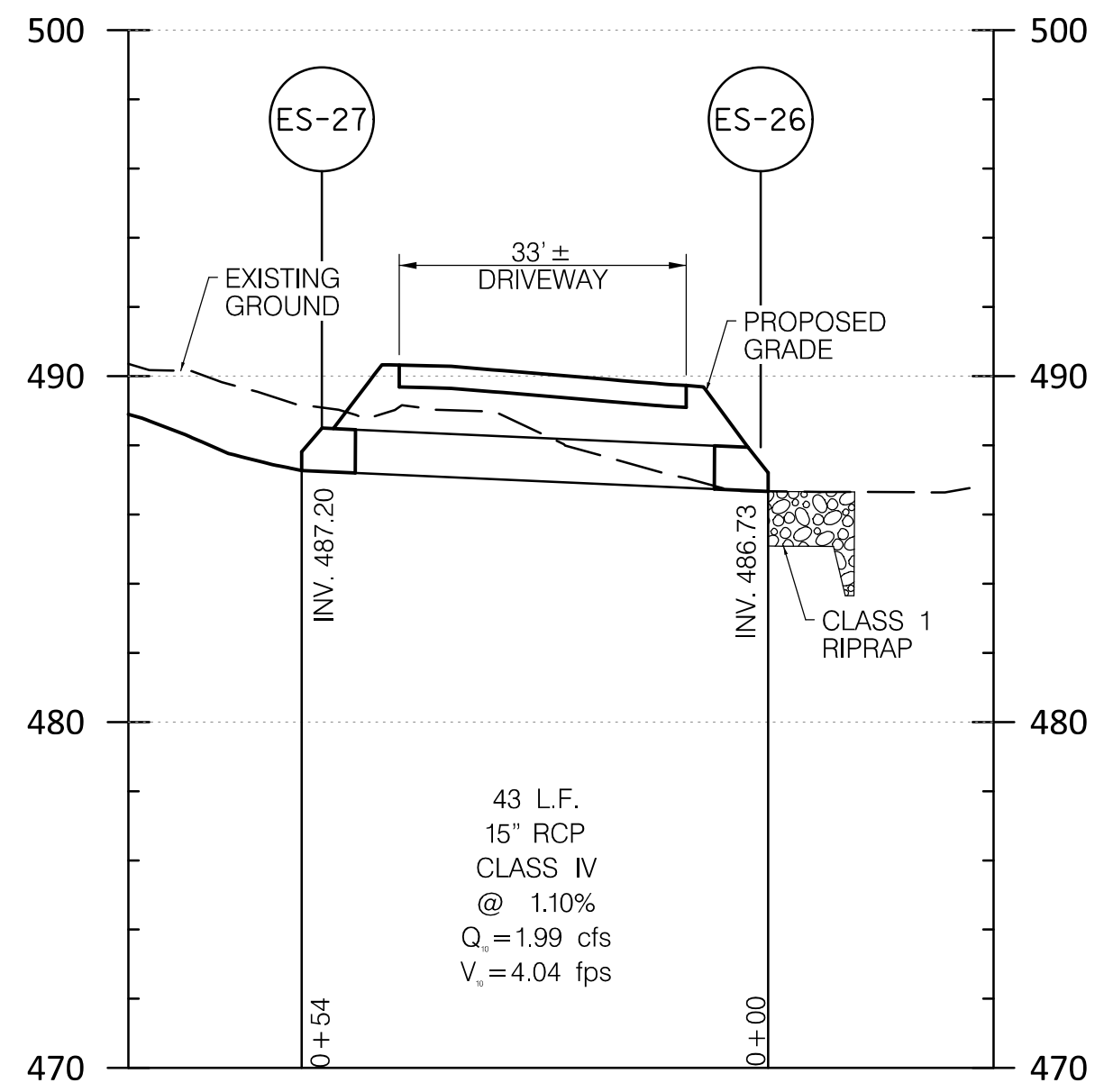
ES-25 TO ES-24

SCALE: HOR. 1"=20'  
VERT. 1"=5'



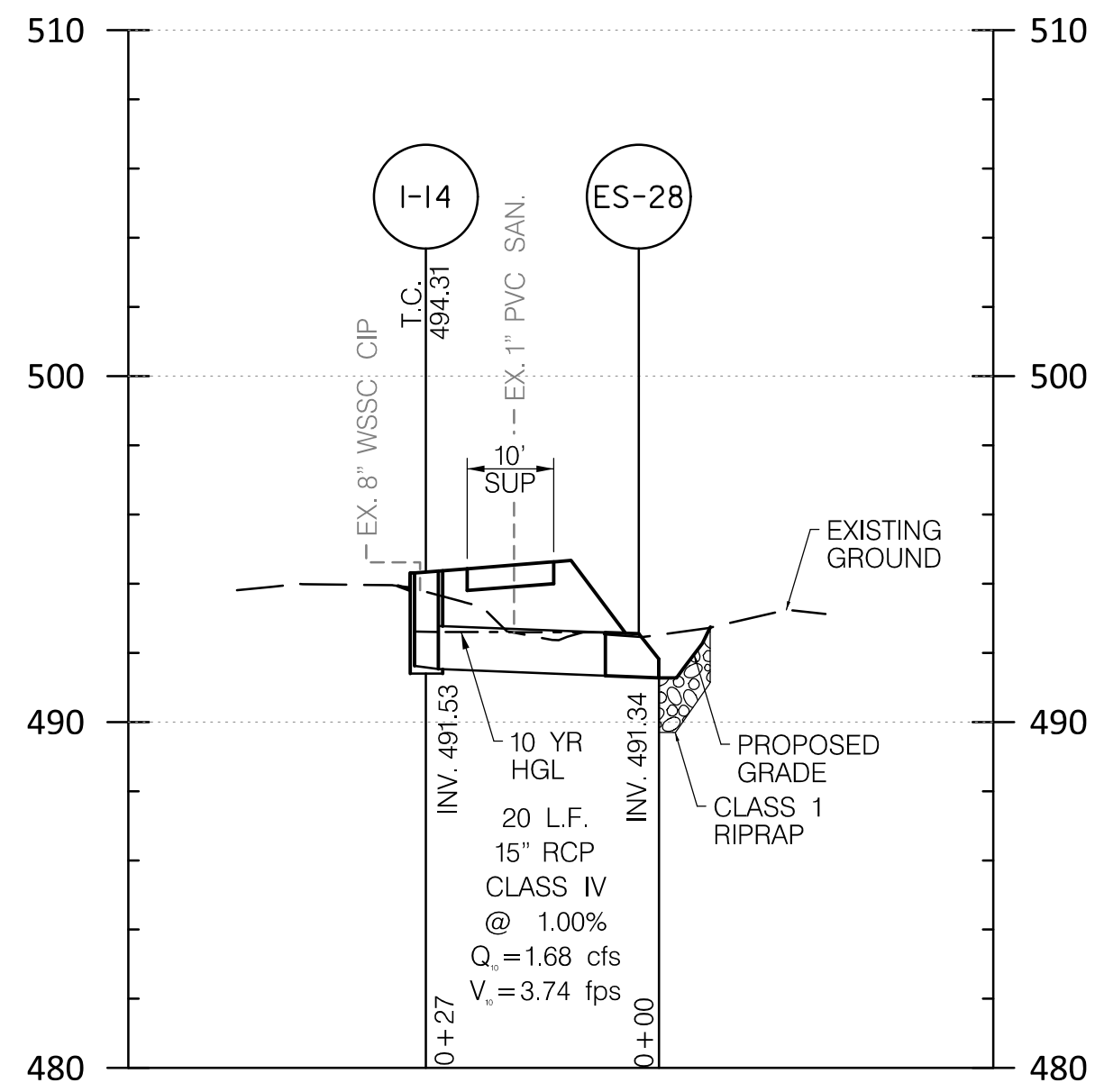
I-13 TO EW-02

SCALE: HOR. 1"=20'  
VERT. 1"=5'



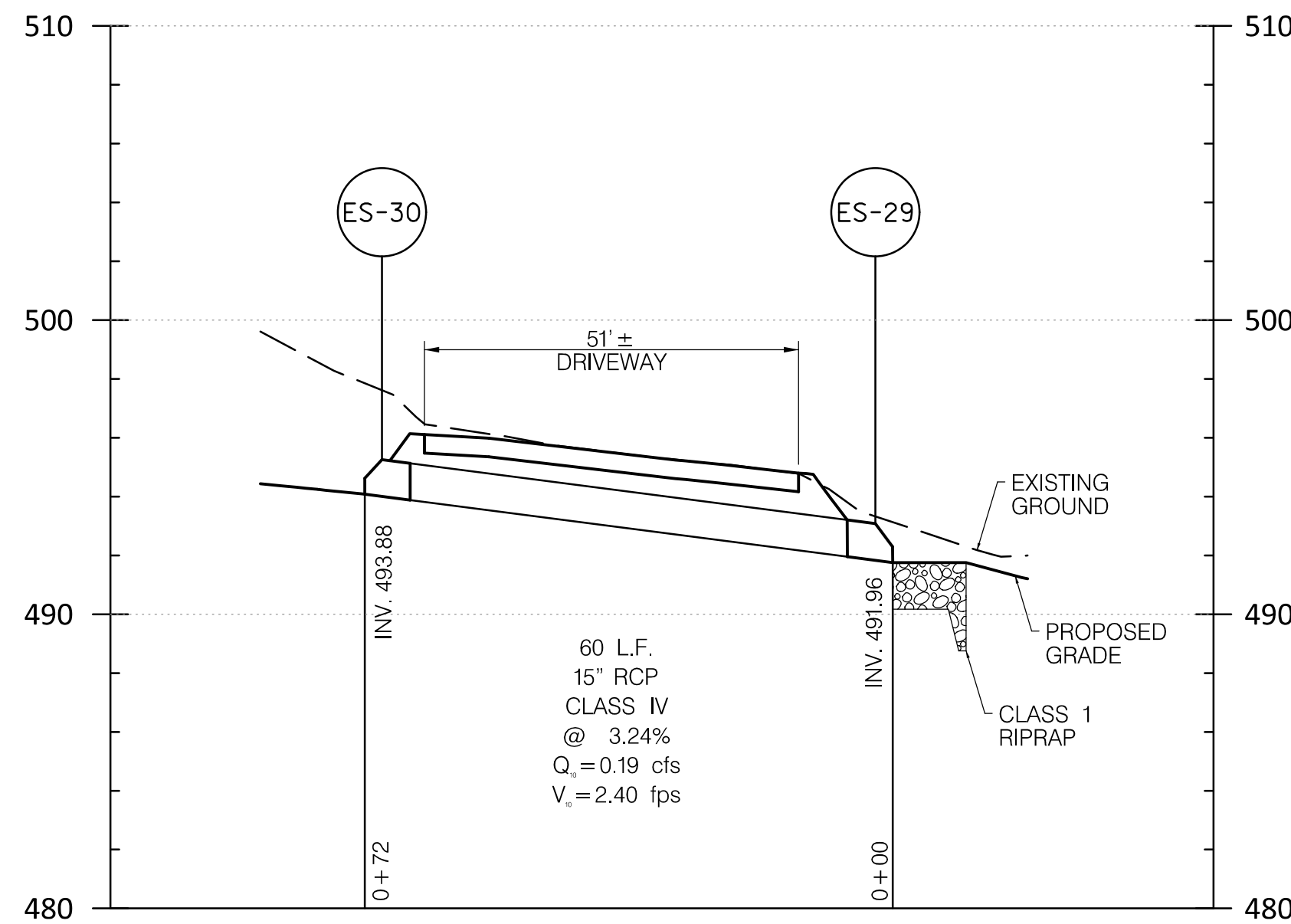
ES-27 TO ES-26

SCALE: HOR. 1"=20'  
VERT. 1"=5'



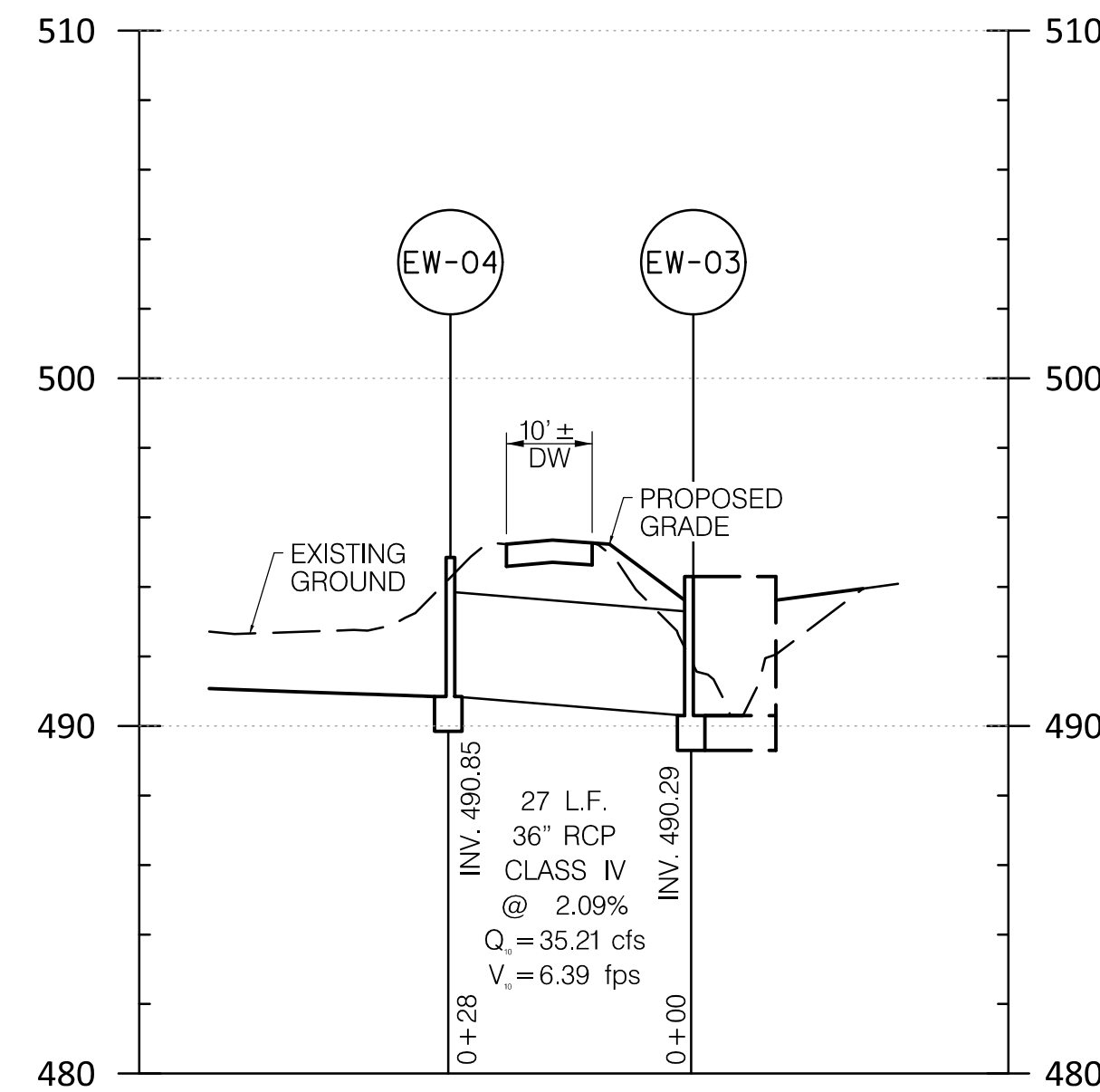
I-14 TO ES-28

SCALE: HOR. 1"=20'  
VERT. 1"=5'



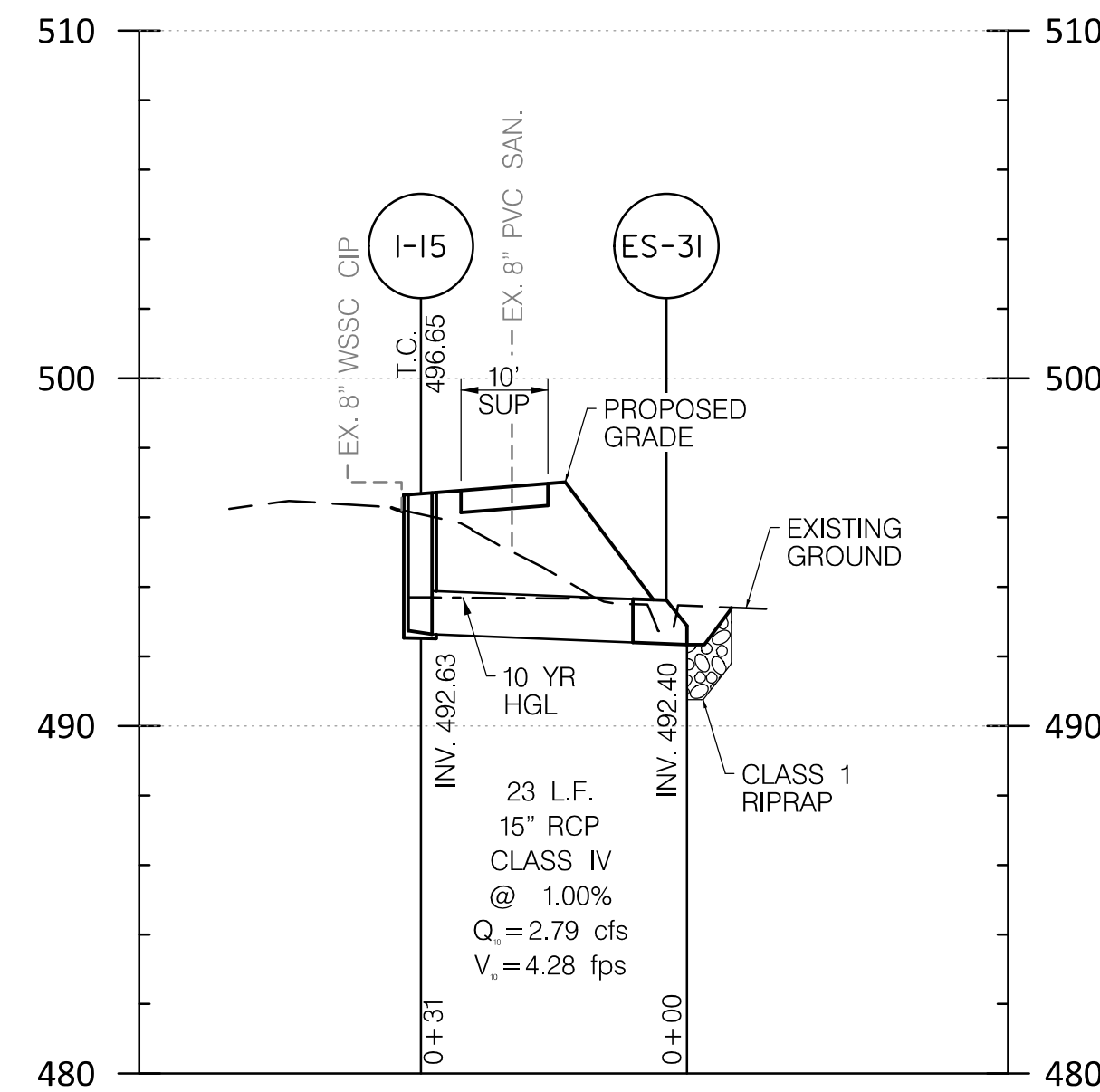
ES-30 TO ES-29

SCALE: HOR. 1"=20'  
VERT. 1"=5'



EW-04 TO EW-03

SCALE: HOR. 1"=20'  
VERT. 1"=5'



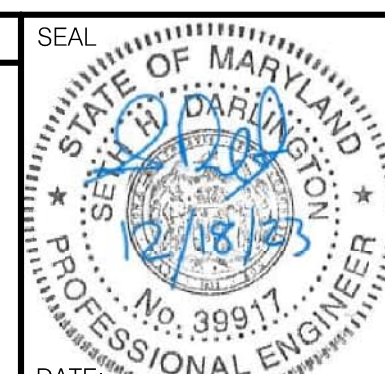
I-15 TO ES-31

SCALE: HOR. 1"=20'  
VERT. 1"=5'

**30% SUBMITTAL**

DATUM: NAD 83/91 HORIZONTAL  
NAVD 88 VERTICAL

PROFESSIONAL CERTIFICATION  
I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND. SETH H. DARLINGTON  
LICENSE NO.: 39917  
EXP. DATE: 01/18/2025



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

RECOMMENDED FOR APPROVAL  
Chief, Design Section DATE  
APPROVED  
Chief, Division of Engineering Services DATE  
DESIGNED BY: L.C.M. DRAWN BY: L.C.M. CHECKED BY: S.H.D.

**PLAN SHEET DP-03  
DRAINAGE PROFILES  
NORWOOD ROAD  
SHARED USE PATH**

SCALE: AS SHOWN DATE: JAN, 2024  
PROJECT NO.: C.I.P. # PENDING SHEET NO. 54 OF 133

BY: nkern









B-4 STANDARDS AND SPECIFICATIONS

FOR

VEGETATIVE STABILIZATION

Definition

Using vegetation as cover to protect exposed soil from erosion.

Purpose

To promote the establishment of vegetation on exposed soil.

Conditions Where Practice Applies

On all disturbed areas not stabilized by other methods. This specification is divided into sections on incremental stabilization; soil preparation, soil amendments and topsoiling; seeding and mulching; temporary stabilization; and permanent stabilization.

Effects on Water Quality and Quantity

Stabilization practices are used to promote the establishment of vegetation on exposed soil. When soil is stabilized with vegetation, the soil is less likely to erode and more likely to allow infiltration of rainfall, thereby reducing sediment loads and runoff to downstream areas.

Planting vegetation in disturbed areas will have an effect on the water budget, especially on volumes and rates of runoff, infiltration, evaporation, transpiration, percolation, and groundwater recharge. Over time, vegetation will increase organic matter content and improve the water holding capacity of the soil and subsequent plant growth.

Vegetation will help reduce the movement of sediment, nutrients, and other chemicals carried by runoff to receiving waters. Plants will also help protect groundwater supplies by assimilating those substances present within the root zone.

Sediment control practices must remain in place during grading, seedbed preparation, seeding, mulching, and vegetative establishment.

Adequate Vegetative Establishment

Inspect seeded areas for vegetative establishment and make necessary repairs, replacements, and reseedings within the planting season.

- 1. Adequate vegetative stabilization requires 95 percent groundcover.
2. If an area has less than 40 percent groundcover, restabilize following the original recommendations for lime, fertilizer, seedbed preparation, and seeding.
3. If an area has between 40 and 94 percent groundcover, over-seed and fertilize using half of the rates originally specified.
4. Maintenance fertilizer rates for permanent seeding are shown in Table B.6.

B-4-8 STANDARDS AND SPECIFICATIONS

FOR

STOCKPILE AREA

Definition

A mound or pile of soil protected by appropriately designed erosion and sediment control measures.

Purpose

To provide a designated location for the temporary storage of soil that controls the potential for erosion, sedimentation, and changes to drainage patterns.

Conditions Where Practice Applies

Stockpile areas are utilized when it is necessary to salvage and store soil for later use.

Criteria

- 1. The stockpile location and all related sediment control practices must be clearly indicated on the erosion and sediment control plan.
2. The footprint of the stockpile must be sized to accommodate the anticipated volume of material and based on a side slope ratio no steeper than 2:1. Benching must be provided in accordance with Standard B-3-1 and Grading.
3. Runoff from the stockpile area must drain to a suitable sediment control practice.
4. Access to the stockpile area should be from the upgrade side.
5. Clear water runoff into the stockpile area must be minimized by use of a diversion device such as an earth dike, temporary swale or diversion fence. Provisions must be made for discharging concentrated flow in a non-erosive manner.
6. Where runoff concentrates along the toe of the stockpile fill, an appropriate erosion/sediment control practice must be used to intercept the discharge.
7. Stockpiles must be stabilized in accordance with the 3:7 day stabilization requirement as well as Standard B-4-1 Incremental Stabilization and Standard B-4-4 Temporary Stabilization.
8. If the stockpile is located on an impervious surface, a liner may be provided below the stockpile to facilitate cleanup. Stockpiles containing contaminated material must be covered with impermeable sheeting.

Maintenance

The stockpile area must continuously meet the requirements for Adequate Vegetative Establishment in accordance with Section B-4 Vegetative Stabilization. Side slopes must be maintained at no steeper than a 2:1 ratio. The stockpile area must be kept free of erosion. If the vertical height of a stockpile exceeds 20 feet for 2:1 slopes, 30 feet for 3:1 slopes, or 40 feet for 4:1 slopes, benching must be provided in accordance with Section B-3-1 and Grading.

B-4-1 STANDARDS AND SPECIFICATIONS

FOR

INCREMENTAL STABILIZATION

Definition

Establishment of vegetative cover on cut and fill slopes.

Purpose

To provide timely vegetative cover on cut and fill slopes as work progresses.

Conditions Where Practice Applies

Any cut or fill slope greater than 15 feet in height. This practice also applies to stockpiles.

Criteria

- A. Incremental Stabilization - Cut Slopes
1. Excavate and stabilize cut slopes in increments not to exceed 15 feet in height. Dress, prepare, seed and mulch all cut slopes as the work progresses.
2. Construction sequence example (Refer to Figure B.1):
a. Construct and stabilize all temporary swales or dikes that will be used to convey runoff around the excavation.
b. Perform Phase 1 excavation, dress, and stabilize.
c. Perform Phase 2 excavation, dress, and stabilize. Overseed Phase 1 areas as necessary.
d. Perform final phase excavation, dress, and stabilize. Overseed previously seeded areas as necessary.

Note: Once excavation has begun the operation should be continuous from grubbing through the completion of grading and placement of topsoil (if required) and permanent seed and mulch. Any interruptions in the operation or completing the operation out of the seeding season will necessitate the application of temporary stabilization.

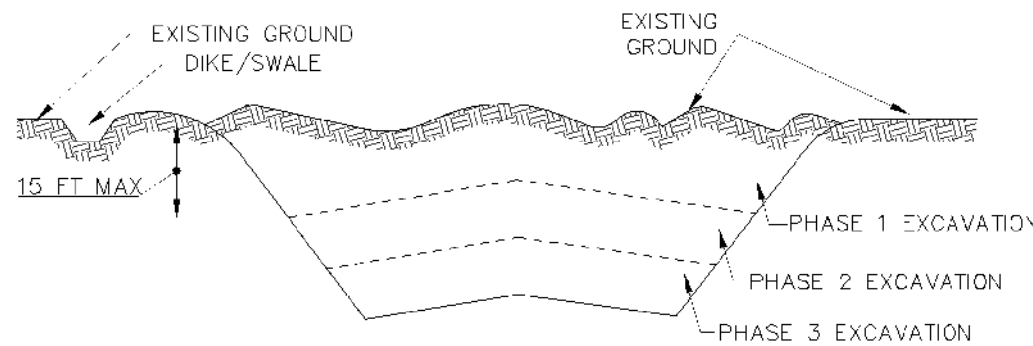


Figure B.1: Incremental Stabilization - Cut

- B. Incremental Stabilization - Fill Slopes
1. Construct and stabilize fill slopes in increments not to exceed 15 feet in height. Dress, prepare, seed and mulch all slopes as the work progresses.
2. Stabilize slopes immediately when the vertical height of a lift reaches 15 feet, or when the grading operation ceases as prescribed in the plans.
3. At the end of each day, install temporary water conveyance practice(s), as necessary, to intercept surface runoff and convey it down the slope in a non-erosive manner.
4. Construction sequence example (Refer to Figure B.2):
a. Construct and stabilize all temporary swales or dikes that will be used to divert runoff around the fill. Construct silt fence on low side of fill unless other methods shown on the plans address this area.
b. At the end of each day, install temporary water conveyance practice(s), as necessary, to intercept surface runoff and convey it down the slope in a non-erosive manner.
c. Place Phase 1 fill, dress, and stabilize.
d. Place Phase 2 fill, dress, and stabilize.
e. Place final phase fill, dress, and stabilize. Overseed previously seeded areas as necessary.

Note: Once the placement of fill has begun the operation should be continuous from grubbing through the completion of grading and placement of topsoil (if required) and permanent seed and mulch. Any interruptions in the operation or completing the operation out of the seeding season will necessitate the application of temporary stabilization.

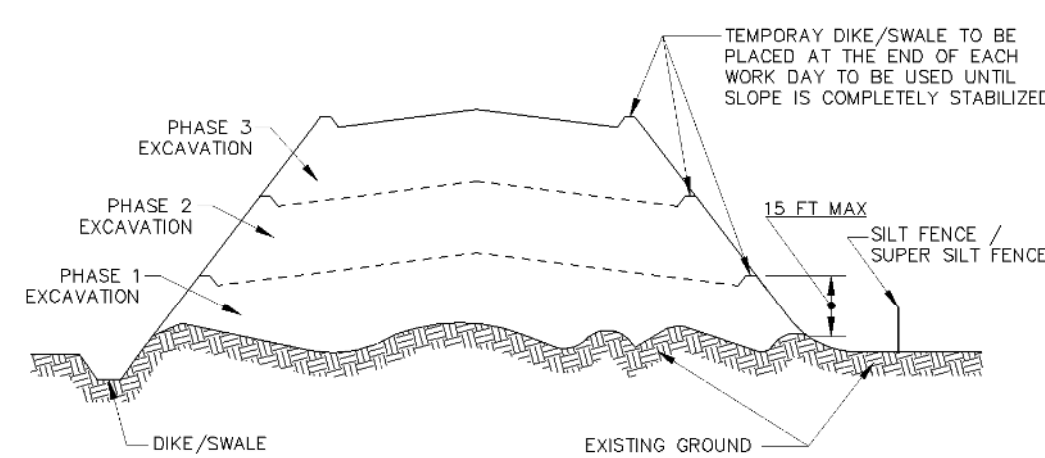


Figure B.2: Incremental Stabilization - Fill

B-4-2 STANDARDS AND SPECIFICATIONS

FOR

SOIL PREPARATION, TOPSOILING, AND SOIL AMENDMENTS

Definition

The process of preparing the soils to sustain adequate vegetative stabilization.

Purpose

To provide a suitable soil medium for vegetative growth.

Conditions Where Practice Applies

Where vegetative stabilization is to be established.

Criteria

- A. Soil Preparation
1. Temporary Stabilization
a. Seedbed preparation consists of loosening soil to a depth of 3 to 5 inches by means of suitable agricultural or construction equipment, such as disc harrows or chisel plows or rippers mounted on construction equipment. After the soil is loosened, it must not be rolled or dragged smooth but left in the roughened condition. Slopes 3:1 or flatter are to be tracked with ridges running parallel to the contour of the slope.
b. Apply fertilizer and lime as prescribed on the plans.
c. Incorporate lime and fertilizer into the top 3 to 5 inches of soil by disking or other suitable means.
2. Permanent Stabilization
a. A soil test is required for any earth disturbance of 5 acres or more. The minimum soil conditions required for permanent vegetative establishment are:
i. Soil pH between 6.0 and 7.0.
ii. Soluble salts less than 500 parts per million (ppm).
iii. Soil contains less than 40 percent clay but enough fine grained material (greater than 30 percent silt plus clay) to provide the capacity to hold a moderate amount of moisture. An exception: if lovgrass will be planted, then a sandy soil (less than 30 percent silt plus clay) would be acceptable.
iv. Soil contains 1.5 percent minimum organic matter by weight.
v. Soil contains sufficient pore space to permit adequate root penetration.
b. Application of amendments or topsoil is required if on-site soils do not meet the above conditions.
c. Graded areas must be maintained in a true and even grade as specified on the approved plan, then scarified or otherwise loosened to a depth of 3 to 5 inches.
d. Apply soil amendments as specified on the approved plan or as indicated by the results of a soil test.
e. Mix soil amendments into the top 3 to 5 inches of soil by disking or other suitable means. Rake lawn areas to smooth the surface, remove large objects like stones and branches, and ready the area for seed application. Loosen surface soil by dragging with a heavy chain or other equipment to roughen the surface where site conditions will not permit normal seedbed preparation. Track slopes 3:1 or flatter with tracked equipment leaving the soil in an irregular condition with ridges running parallel to the contour of the slope. Leave the top 1 to 3 inches of soil loose and friable. Seedbed loosening may be unnecessary on newly disturbed areas.

- B. Topsoiling
1. Topsoil is placed over prepared subsoil prior to establishment of permanent vegetation. The purpose is to provide a suitable soil medium for vegetative growth. Soils of concern have low moisture content, low nutrient levels, low pH, materials toxic to plants, and/or unacceptable soil gradation.
2. Topsoil salvaged from an existing site may be used provided it meets the standards as set forth in these specifications. Typically, the depth of topsoil to be salvaged for a given soil type can be found in the representative soil profile section in the Soil Survey published by USDA-NRCS.
3. Topsoiling is limited to areas having 2:1 or flatter slopes where:
a. The texture of the exposed subsoil/parent material is not adequate to produce vegetative growth.
b. The soil material is so shallow that the rooting zone is not deep enough to support plants or furnish continuing supplies of moisture and plant nutrients.
c. The original soil to be vegetated contains material toxic to plant growth.
d. The soil is so acidic that treatment with limestone is not feasible.
4. Areas having slopes steeper than 2:1 require special consideration and design.
5. Topsoil Specifications: Soil to be used as topsoil must meet the following criteria:
a. Topsoil must be a loam, sandy loam, clay loam, silt loam, sandy clay loam, or loamy sand. Other soils may be used if recommended by an agronomist or soil scientist and approved by the appropriate approval authority. Topsoil must not be a mixture of contrasting textured subsoils and must contain less than 5 percent by volume of cinders, stones, slag, coarse fragments, gravel, sticks, roots, trash, or other materials larger than 1 1/2 inches in diameter.
b. Topsoil must be free of noxious plants or plant parts such as Bermuda grass, quack grass, Johnson grass, nut sedge, poison ivy, thistle, or others as specified.
c. Topsoil substitutes or amendments, as recommended by a qualified agronomist or soil scientist and approved by the appropriate approval authority, may be used in lieu of natural topsoil.

- 6. Topsoil Application
a. Erosion and sediment control practices must be maintained when applying topsoil.
b. Uniformly distribute topsoil in a 5 to 8 inch layer and lightly compact to a minimum thickness of 4 inches. Spreading is to be performed in such a manner that sodding or seeding can proceed with a minimum of additional soil preparation and tillage. Any irregularities in the surface resulting from topsoiling or other operations must be corrected in order to prevent the formation of depressions or water pockets.
c. Topsoil must not be placed if the soil or subsoil is in a frozen or muddy condition, when the subsoil is excessively wet or in a condition that may otherwise be detrimental to proper grading and seedbed preparation.

- C. Soil Amendments (Fertilizer and Lime Specifications)
1. Soil tests must be performed to determine the exact ratios and application rates for both lime and fertilizer on sites having disturbed areas of 5 acres or more. Soil analysis may be performed by a recognized private or commercial laboratory. Soil samples taken for engineering purposes may also be used for chemical analyses.
2. Fertilizers must be uniform in composition, free flowing and suitable for accurate application by appropriate equipment. Manure may be substituted for fertilizer with prior approval from the appropriate approval authority. Fertilizers must all be delivered to the site fully labeled according to the applicable laws and must bear the name, trade name or trademark and warranty of the producer.
3. Lime materials must be ground limestone (hydrated or burnt lime) may be substituted except when hydroseeding) which contains at least 50 percent total oxides (calcium oxide plus magnesium oxide). Limestone must be ground to such fineness that at least 50 percent will pass through a #100 mesh sieve and 98 to 100 percent will pass through a #20 mesh sieve.
4. Lime and fertilizer are to be evenly distributed and incorporated into the top 3 to 5 inches of soil by disking or other suitable means.
5. Where the subsoil is either highly acidic or composed of heavy clays, spread ground limestone at a rate of 4 to 8 tons/acre (200-400 pounds per 1,000 square feet) prior to the placement of the topsoil.

B-4-3 STANDARDS AND SPECIFICATIONS

FOR

SEEDING AND MULCHING

Definition

The application of seed and mulch to establish vegetative cover.

Purpose

To protect disturbed soils from erosion during and at the end of construction.

Conditions Where Practice Applies

To the surface of all perimeter controls, slopes, and any disturbed area not under active grading.

Criteria

- A. Seeding
1. Specifications
a. All seed must meet the requirements of the Maryland State Seed Law. All seed must be subject to re-testing by a recognized seed laboratory. All seed used must have been tested within the 6 months immediately preceding the date of sowing such material on any project. Refer to Table B.4 regarding the quality of seed. Seed tags must be available upon request to the inspector to verify type of seed and seeding rate.
b. Mulch alone may be applied between the fall and spring seeding dates only if the ground is frozen. The appropriate seeding mixture must be applied when the ground thaws.
c. Inoculants: The inoculant for treating legume seed in the seed mixtures must be a pure culture of nitrogen fixing bacteria prepared specifically for the species. Inoculants must not be used later than the date indicated on the container. Add fresh inoculants as directed on the package. Use four times the recommended rate when hydroseeding. Note: It is very important to keep inoculant as cool as possible until used. Temperatures above 75 to 80 degrees Fahrenheit can weaken bacteria and make the inoculant less effective.
d. Sod or seed must not be placed on soil which has been treated with soil sterilants or chemicals used for weed control until sufficient time has elapsed (14 days min.) to permit dissipation of phytotoxic materials.
2. Application
a. Dry Seeding: This includes use of conventional drop or broadcast spreaders.
i. Incorporate seed into the subsoil at the rates prescribed on Temporary Seeding Table B.1, Permanent Seeding Table B.3, or site-specific seeding summaries.
ii. Apply seed in two directions, perpendicular to each other. Apply half the seeding rate in each direction. Roll the seeded area with a weighted roller to provide good seed to soil contact.
b. Drill or Cultipacker Seeding: Mechanized seeders that apply and cover seed with soil.
i. Cultipacker seeders are required to bury the seed in such a fashion as to provide at least 1/4 inch of soil covering. Seedbed must be firm after planting.
ii. Apply seed in two directions, perpendicular to each other. Apply half the seeding rate in each direction.
c. Hydroseeding: Apply seed uniformly with hydroseeder (slurry includes seed and fertilizer).
i. If fertilizer is being applied at the time of seeding, the application rates should not exceed the following: nitrogen, 100 pounds per acre total of soluble nitrogen; P2O5 (phosphorus), 200 pounds per acre; K2O (potassium), 200 pounds per acre.
ii. Lime: Use only ground agricultural limestone (up to 3 tons per acre may be applied by hydroseeding). Normally, not more than 2 tons are applied by hydroseeding at any one time. Do not use burnt or hydrated lime when hydroseeding.
iii. Mix seed and fertilizer on site and seed immediately and without interruption.
iv. When hydroseeding do not incorporate seed into the soil.

B. Mulching

1. Specifications (In order of preference)

- a. Straw consisting of thoroughly threshed wheat, rye, oat, or barley and reasonably bright in color. Straw is to be free of noxious weed seeds as specified in the Maryland Seed Law and not musty, moldy, caked, decayed, or excessively dusty. Note: Use only sterile straw mulch in areas where one species of grass is desired.
b. Wood Cellulose Fiber Mulch (WCFCM) consisting of specially prepared wood cellulose processed into a uniform fibrous physical state.
i. WCFCM is to be dyed green or contain a green dye in the package that will provide an appropriate color to facilitate visual inspection of the uniformly spread slurry.
ii. WCFCM, including dye, must contain no germination or growth inhibiting factors.
iii. WCFCM materials are to be manufactured and processed in such a manner that the wood cellulose fiber mulch will remain in uniform suspension in water under agitation and will blend with seed, fertilizer and other additives to form a homogeneous slurry. The mulch material must form a blotter-like ground cover, on application, having moisture absorption and percolation properties and must cover and hold grass seed in contact with the soil without inhibiting the growth of the grass seedlings.
iv. WCFCM material must not contain elements or compounds at concentration levels that will be phytotoxic.
v. WCFCM must conform to the following physical requirements: fiber length of approximately 10 millimeters, diameter approximately 1 millimeter, pH range of 4.0 to 8.5, ash content of 1.6 percent maximum and water holding capacity of 90 percent minimum.

2. Application: Apply mulch to all seeded areas immediately after seeding.

- a. When straw mulch is used, spread it over all seeded areas at the rate of 2 tons per acre to a uniform loose depth of 1 to 2 inches. Apply mulch to achieve a uniform distribution and depth so that the soil surface is not exposed. When using a mulch anchoring tool, increase the application rate to 2.5 tons per acre.
b. Wood cellulose fiber used as mulch must be applied at a net dry weight of 1500 pounds per acre. Mix the wood cellulose fiber with water to attain a mixture with a maximum of 50 pounds of wood cellulose fiber per 100 gallons of water.
3. Anchoring: Perform mulch anchoring immediately following application to minimize loss by wind or water. This may be done by one of the following methods (listed by preference), depending upon the size of the area and erosion hazard:
a. A mulch anchoring tool is a tractor drawn implement designed to punch and anchor mulch into the soil surface a minimum of 2 inches. This practice is most effective on large areas, but is limited to flatter slopes where equipment can operate safely. If used on sloping land, this practice should be used on the contour if possible.
b. Wood cellulose fiber may be used for anchoring straw. Apply the fiber binder at a net dry weight of 750 pounds per acre. Mix the wood cellulose fiber with water at a maximum of 50 pounds of wood cellulose fiber per 100 gallons of water.
c. Synthetic binders such as Acrylic DLR (Agro-Tack), DCA-70, Petrosol, Terra Tex II, Terra Tack AR or other approved equal may be used. Follow application rates as specified by the manufacturer. Application of liquid binders needs to be heavier at the edges where wind catches mulch, such as in valleys and on crests of banks. Use of asphalt binders is strictly prohibited.
d. Netting may be stapled over the mulch according to manufacturer instructions. Netting is usually available in rolls 4 to 15 feet wide and 300 to 3,000 feet long.

B-4-6 STANDARDS AND SPECIFICATIONS

FOR

SOIL STABILIZATION MATTING

Definition

Material used to temporarily or permanently stabilize channels or steep slopes until groundcover is established.

Purpose

To protect the soils until vegetation is established.

Conditions Where Practice Applies

On newly seeded surfaces to prevent the applied seed from washing out; in channels and on steep slopes where the flow has erosive velocities or conveys clear water; on temporary swales, earth dikes, and perimeter dike swales as required by the respective design standard; and, on stream banks where moving water is likely to wash out new vegetative plantings.

Design Criteria

- 1. The soil stabilization matting that is used must withstand the flow velocities and shear stresses determined for the area. Designate on the plan the type of soil stabilization matting using the standard symbol and include the calculated shear stress for the respective treatment area.
2. Matting is required on permanent channels where the runoff velocity exceeds two and half feet per second (2.5 fps) or the shear stress exceeds two pounds per square foot (2 lbs/ft²). On temporary channels discharging to a sediment trapping practice, provide matting where the runoff velocity exceeds four feet per second (4 fps).
3. Temporary soil stabilization matting is made with degradable (lasts 6 months minimum), natural, or manmade fibers of uniform thickness and distribution of fibers throughout and is smolder resistant. The maximum permissible velocity for temporary matting is 6 feet per second.
4. Permanent soil stabilization matting is an open weave, synthetic material consisting of non-degradable fibers or elements of uniform thickness and distribution of weave throughout. The maximum permissible velocity for permanent matting is 8.5 feet per second.
5. Calculate channel velocity and shear stress using the following procedure:

Shear Stress (τ) is a measure of the force of moving water against the substrate and is calculated as:

τ = γ · R · S\_m where:
τ - Shear Stress (lb/ft²)
γ - Weight Density of Water (62.4 lb/ft³)
R - Average Water Depth (Hydraulic Radius) (ft)
S\_m - Water Surface Slope (ft/ft)

Velocity (v) measures the rate of flow through a defined area and is calculated as:

v = (1.486 R^(2/3) S^(1/2)) / n
v - Velocity (ft/sec)
n - Manning's Roughness Coefficient
R - Hydraulic Radius (ft)
S - Channel Slope (ft/ft)

- 6. Use Table B.7 to assist in selecting the appropriate soil stabilization matting for slope applications based on the slope, the slope length, and the soil-crochability K factor.

Table B.7: Soil Stabilization on Slopes

Table with 6 columns for slope lengths (20:1 or flatter, <20:1 to 4:1, <4:1 to 3:1, <3:1 to 2.5:1, <2.5:1 to 2:1\*\*) and 6 rows for different matting types (Straw Mulch/Wood Cellulose Fiber, Temporary Matting with Design Shear Stress > 1.5 lb/sf, etc.).

Effective Range for all K values unless otherwise specified

\* Slope length includes contributing flow length.
\*\* Slopes steeper than 2:1 must be engineered.
\*\*\* Soil having a K value less than or equal to 0.35 can be stabilized effectively with straw mulch or wood cellulose fiber when located on slopes greater than 5%. Soil stabilization matting is required on all slopes greater than 5% that have soil with a K factor greater than 0.35. K factor ratings are published in the NRCS Soil Survey. During construction or reclamation, the soil-crochability K value should represent the upper 6 inches of the final fill material re-spread as the last lift. Only the effects of rock fragments within the soil profile are considered in the estimation of the K value. Do not adjust K values to account for rocks on the soil surface or increases in soil organic matter related to management activities.

Maintenance

Vegetation must be established and maintained so that the requirements for Adequate Vegetative Establishment are continuously met in accordance with Section B-4 Vegetative Stabilization.

DATUM: NAD 83/91 HORIZONTAL
NAVD 88 VERTICAL

Professional Certification and Seal area for Wallace Montgomery, including license number 16142 and expiration date 08/17/2024.

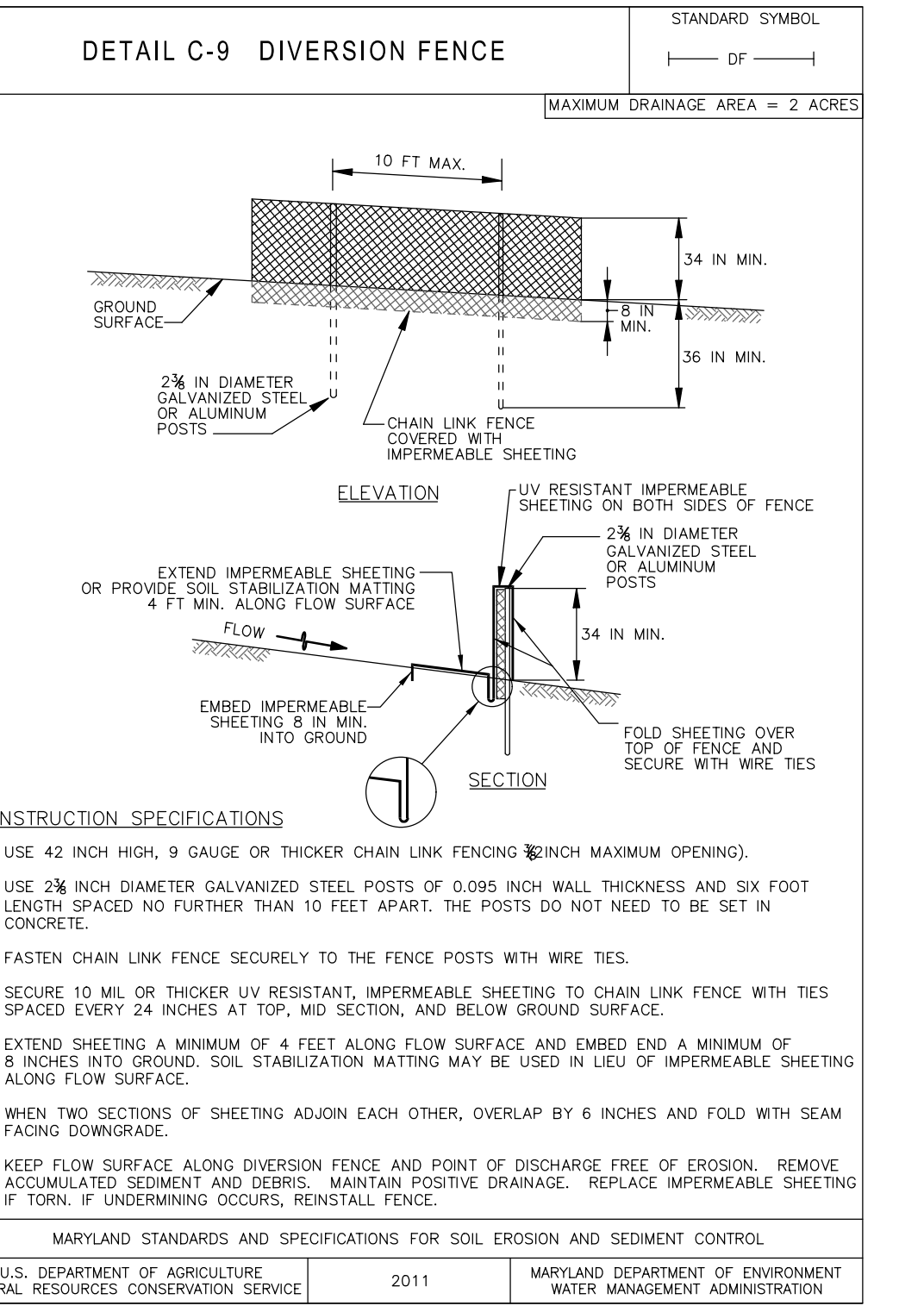
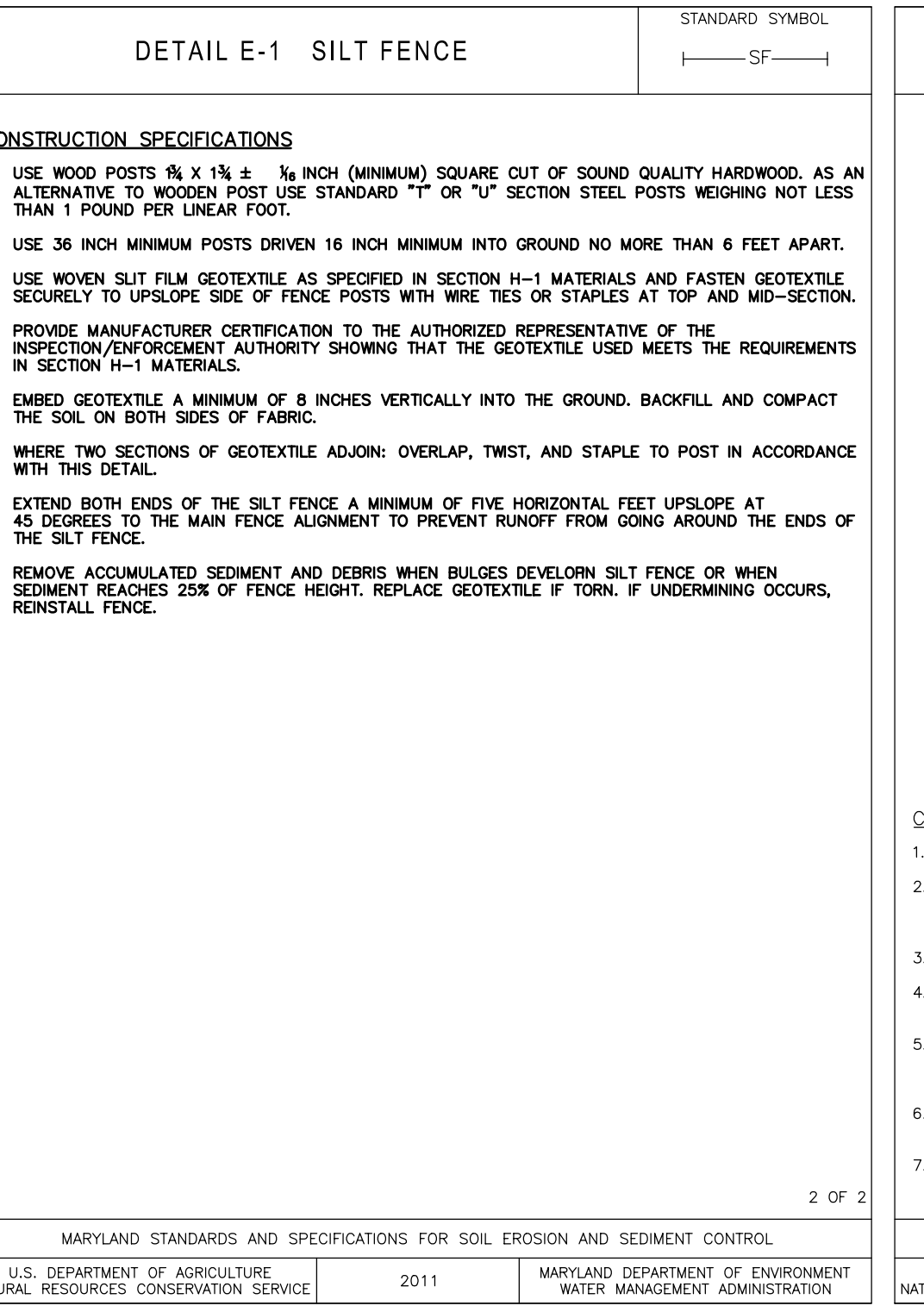
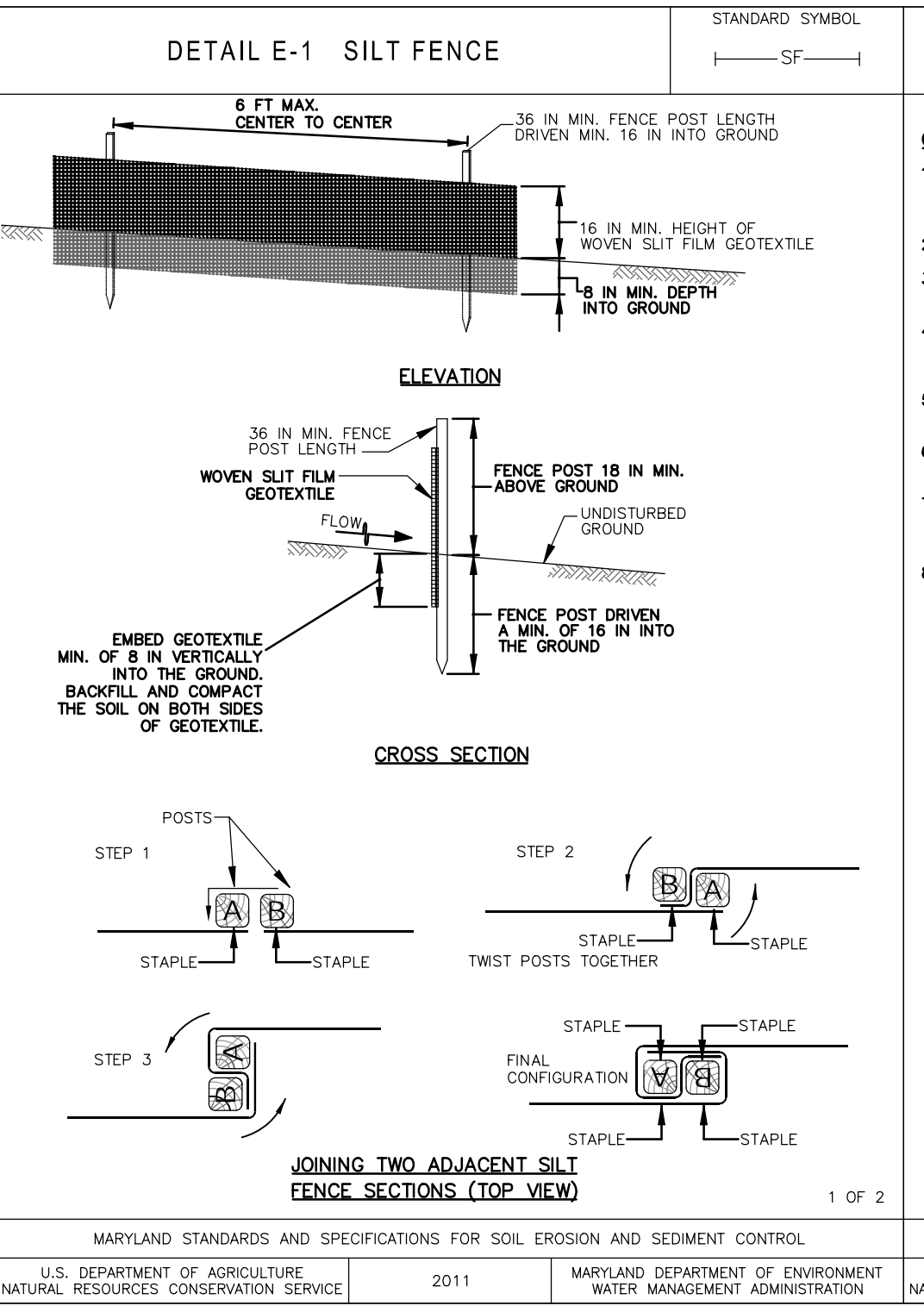
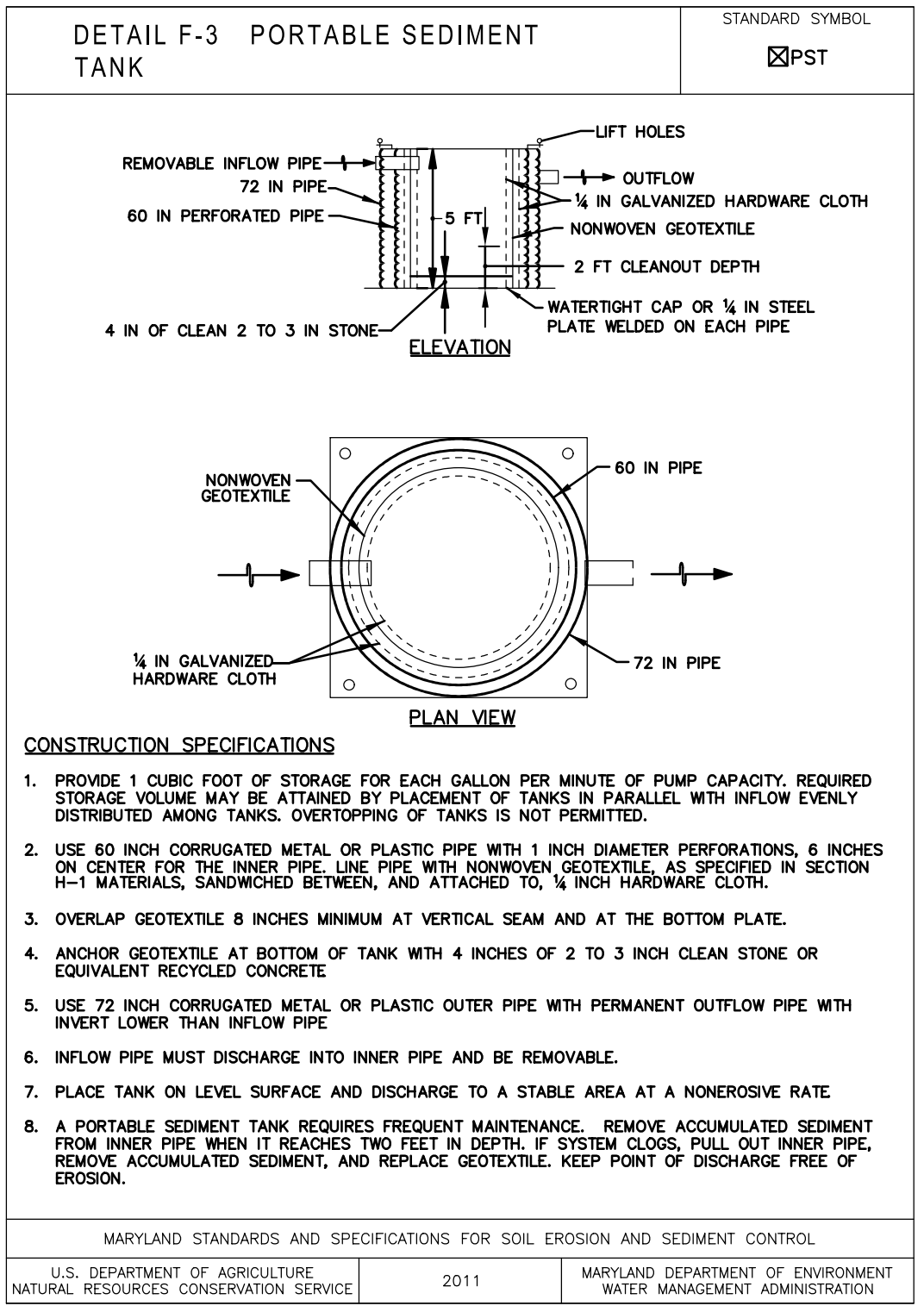
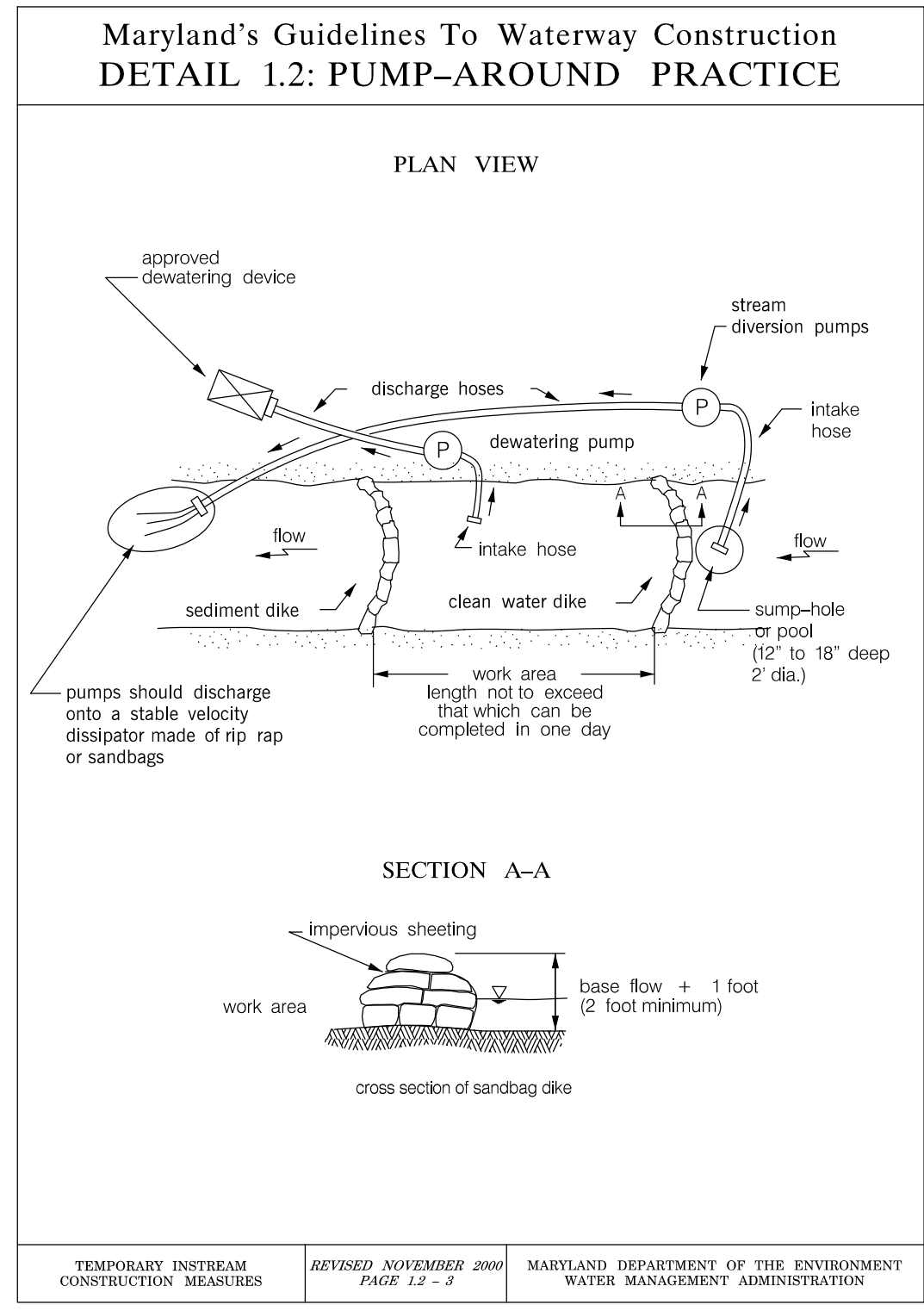
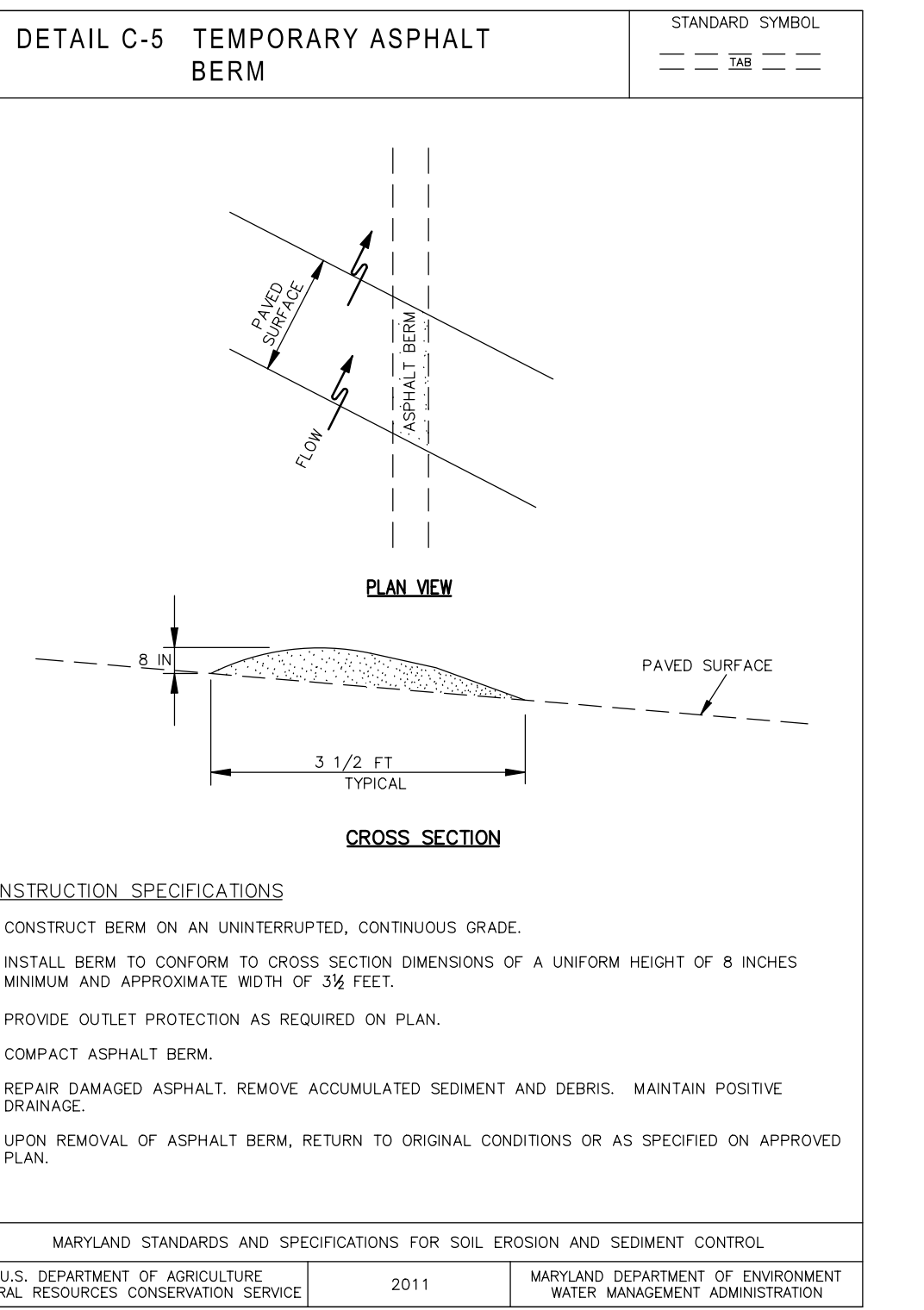
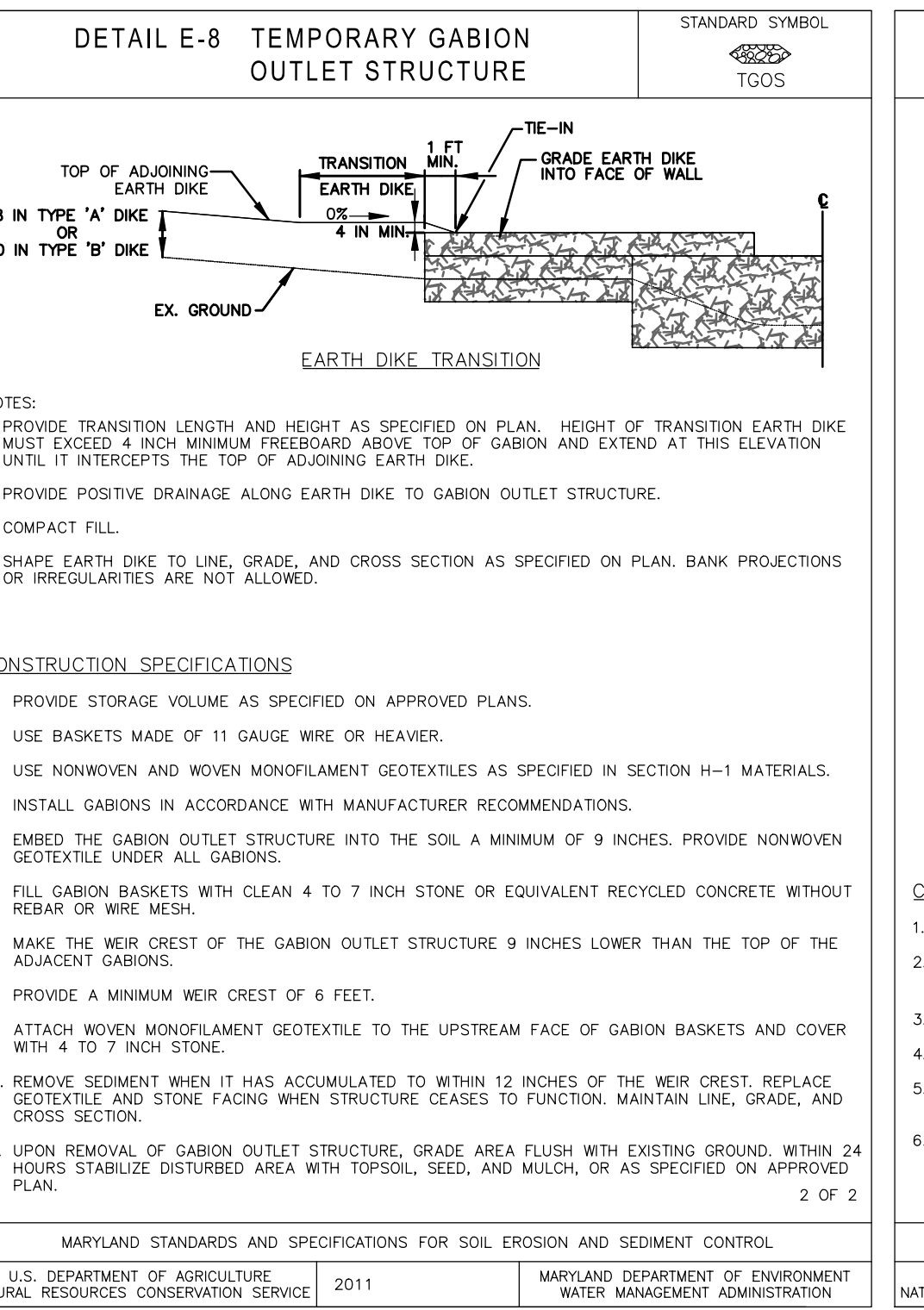
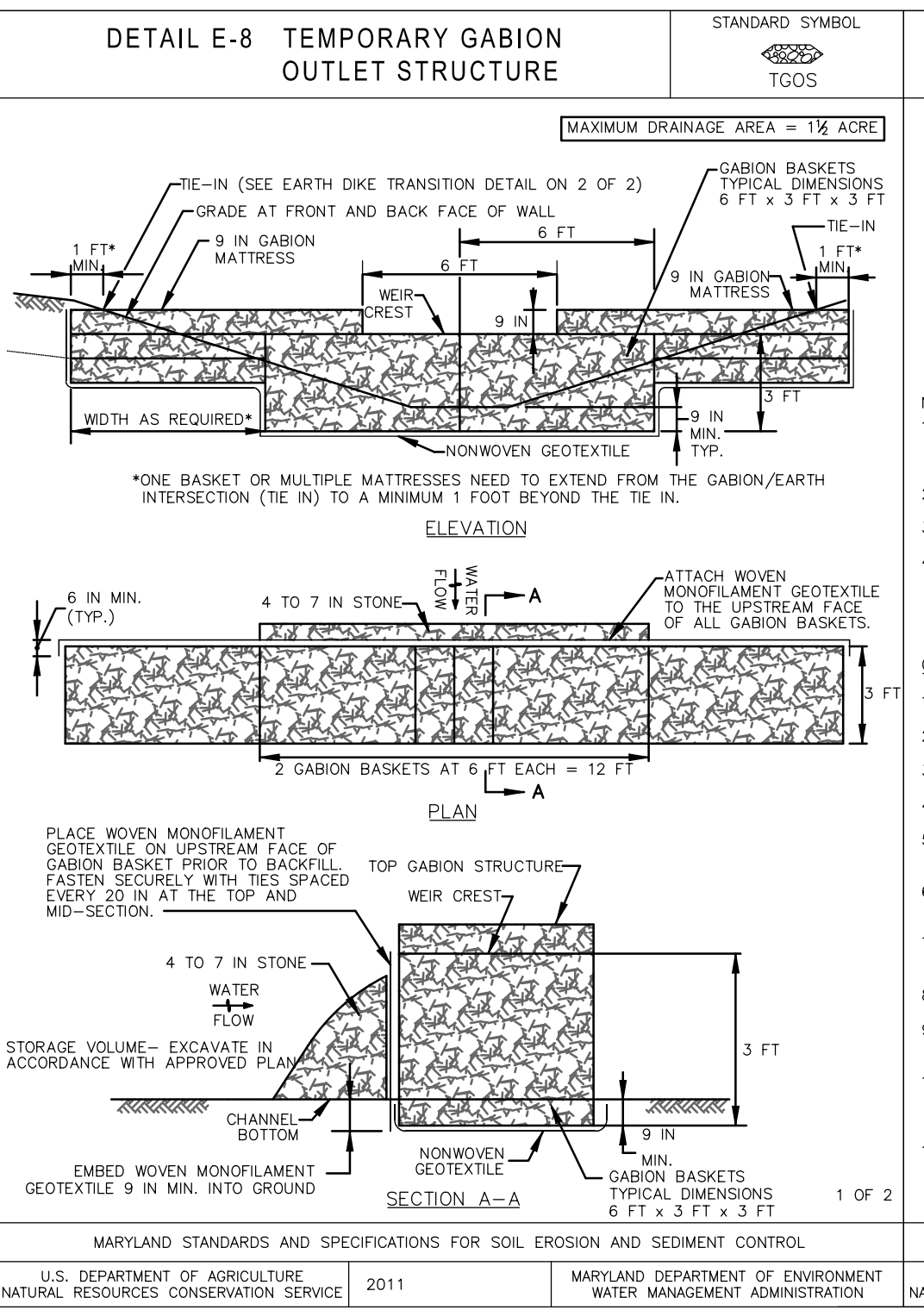
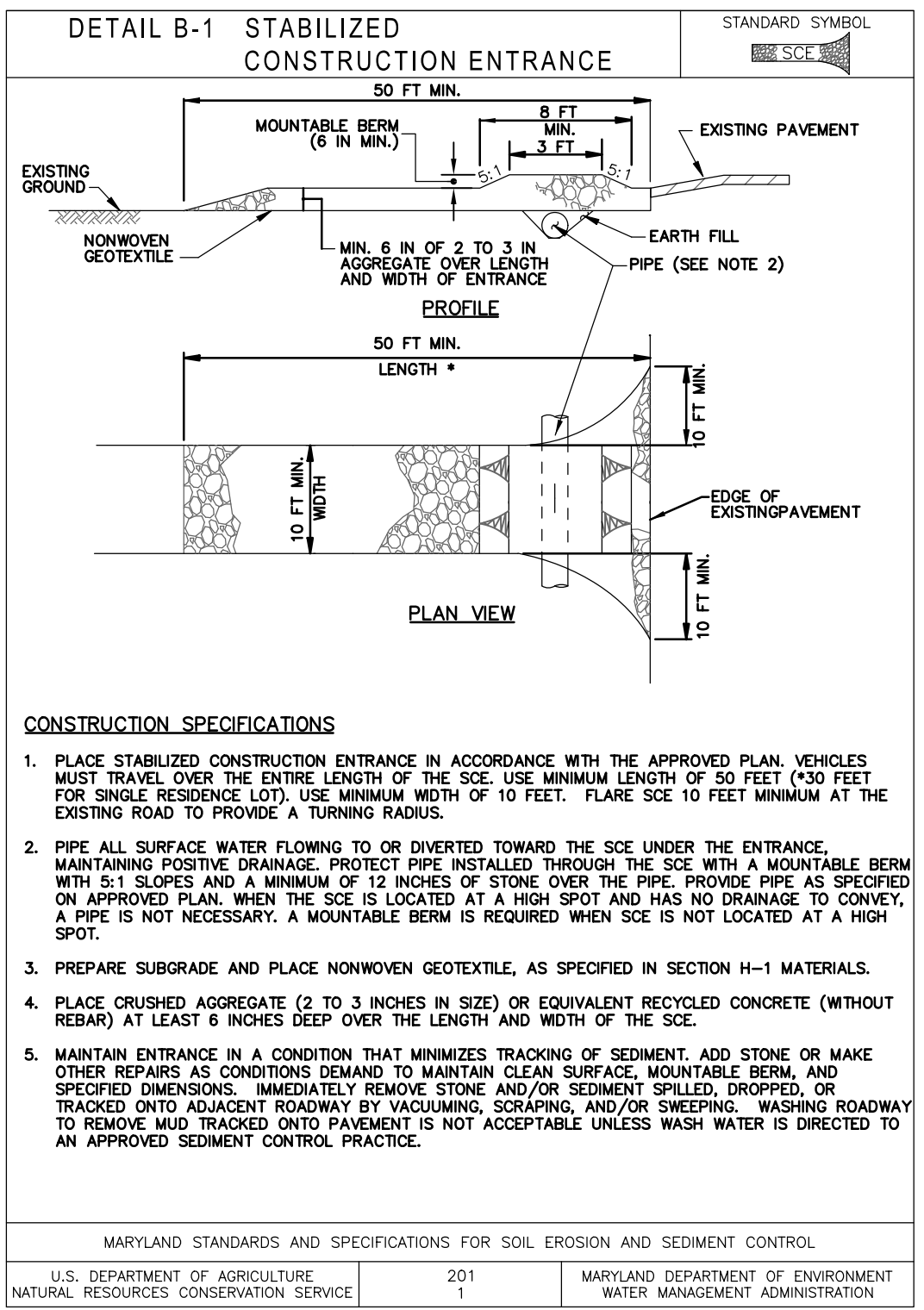
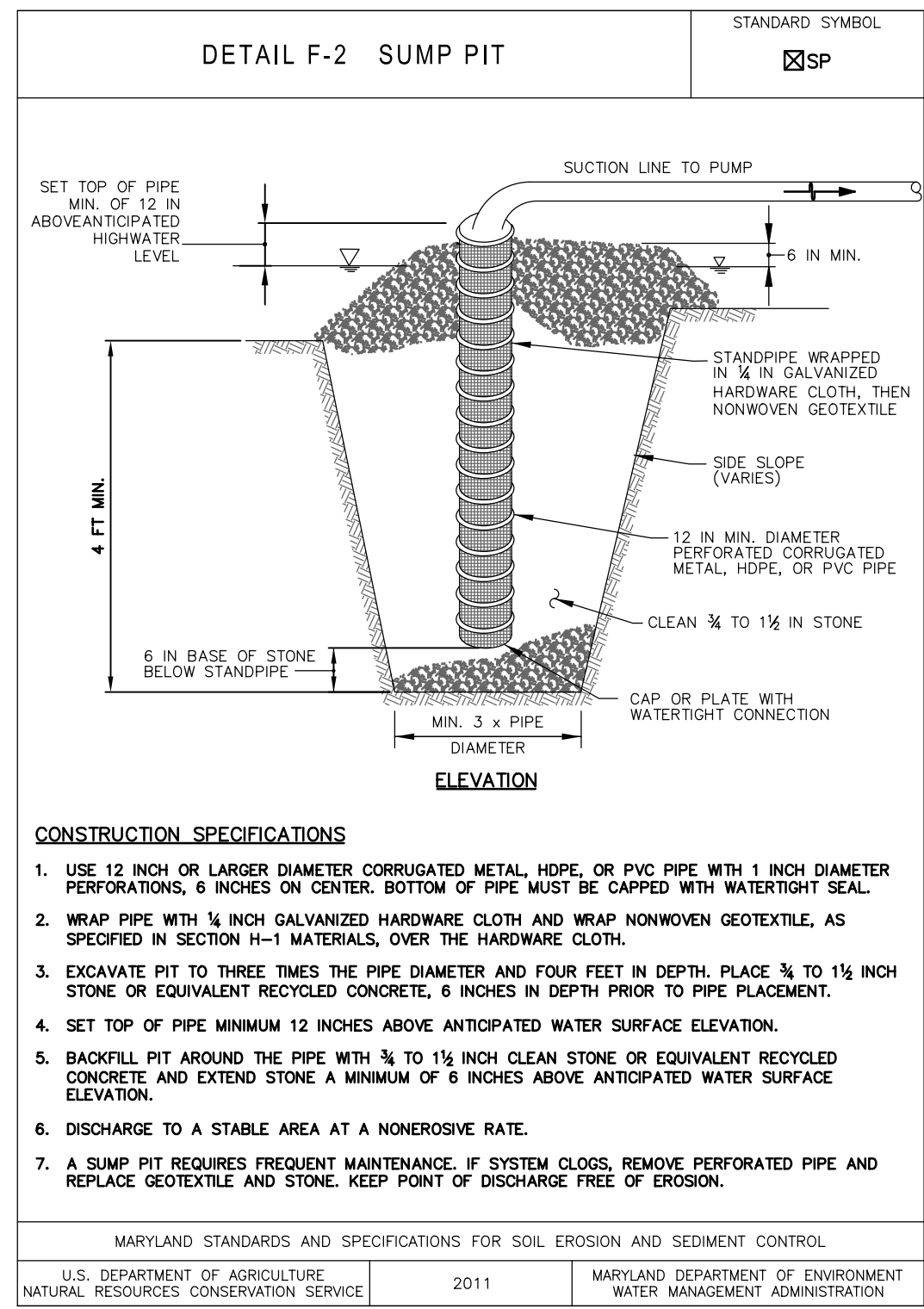
Revision table with columns for NO., REVISION, DATE, and BY.

Approval area for Montgomery County Department of Transportation, including signatures and dates for Chief, Design Section and Chief, Division of Engineering Services.

Project information area including project name (NORWOOD ROAD SHARED USE PATH), scale, date (JAN, 2024), and sheet number (OF 133).

Wallace Montgomery logo and contact information: 10150 York Road, Suite 200, Hunt Valley, Maryland 21030, 410.494.9093 Tel / 410.667.0925 Fax.





**30% SUBMITTAL**

PROFESSIONAL CERTIFICATION  
 I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND. GLENN W. MARSCHKE  
 LICENSE NO.: 16142  
 EXP. DATE: 08/17/2024

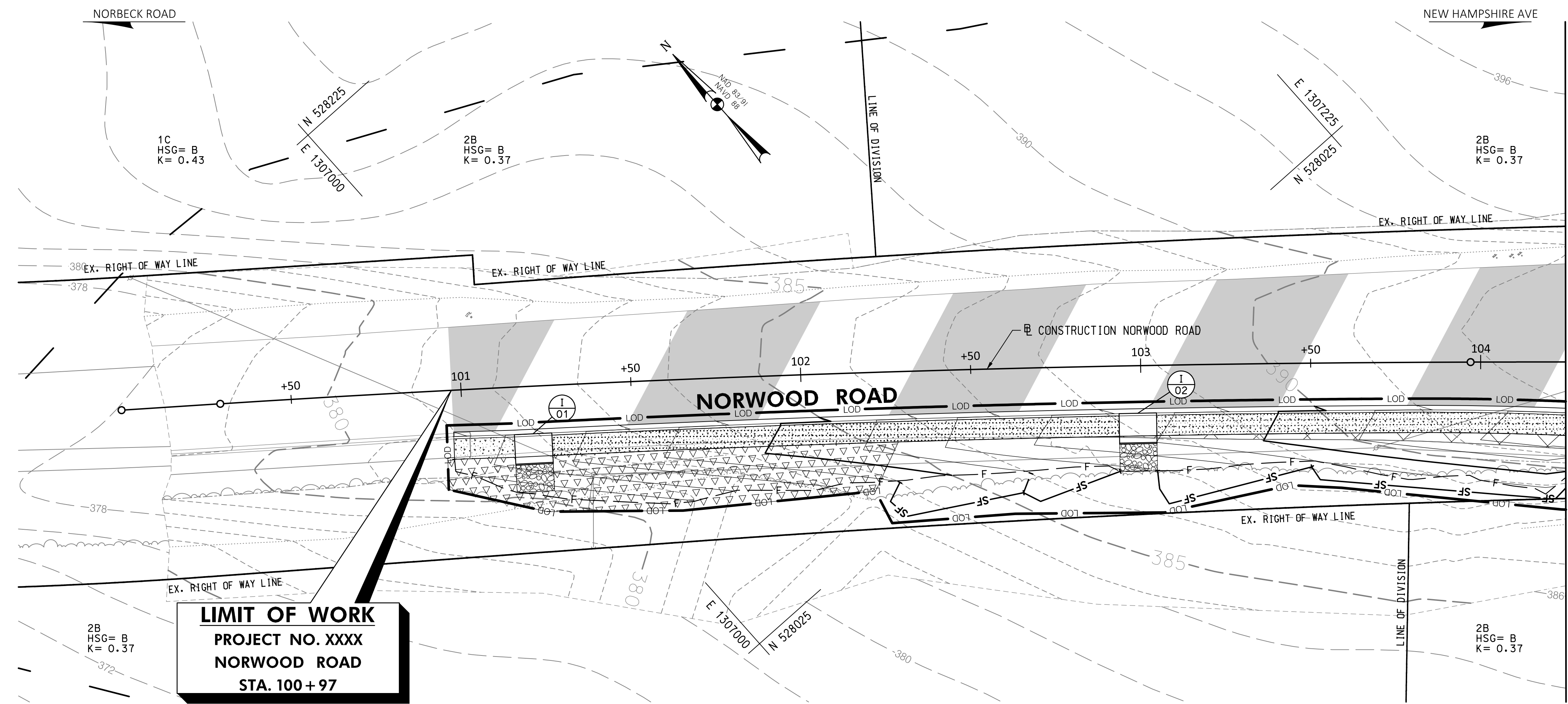
MONTGOMERY COUNTY  
 DEPARTMENT OF TRANSPORTATION  
 100 EDISON PARK DRIVE, 4TH FLOOR  
 GAITHERSBURG, MD 20878

RECOMMENDED FOR APPROVAL  
 Chief, Design Section DATE  
 Chief, Division of Engineering Services DATE  
 DESIGNED BY: L.E.W. DRAWN BY: L.E.W. CHECKED BY: G.W.M.

**NORWOOD ROAD SHARED USE PATH**

SCALE: DATE: JAN, 2024  
 PROJECT NO.: C.I.P. # PENDING SHEET NO. OF 133

**WALLACE MONTGOMERY**  
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**LIMIT OF WORK**  
 PROJECT NO. XXXX  
 NORWOOD ROAD  
 STA. 100+97




**30% SUBMITTAL**

- GENERAL NOTES:**
- EXISTING RIGHT OF WAY LINES ARE BASED ON EXISTING RIGHT OF WAY INFORMATION.
  - FOR PAVEMENT MARKINGS REFER TO SIGNING AND PAVEMENT MARKING PLANS 'SN-2.1 TO SN-2.6.
  - ALL DIMENSIONS MEASURED TO THE FACE OF THE CURB.

DATUM: NAD 83/91 HORIZONTAL  
 NAVD 88 VERTICAL

PROFESSIONAL CERTIFICATION	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. GLENN W. MARSCHKE LICENSE NO.: 16142 EXP. DATE: 08/17/2024	DATE:

NO.	REVISION	DATE	BY

 MONTGOMERY COUNTY DEPARTMENT OF TRANSPORTATION 100 EDISON PARK DRIVE, 4TH FLOOR GAITHERSBURG, MD 20878	
RECOMMENDED FOR APPROVAL	
Chief, Design Section	DATE
APPROVED	
Chief, Division of Engineering Services	DATE
DESIGNED BY: L.E.W.	DRAWN BY: L.E.W.
CHECKED BY: G.W.M.	

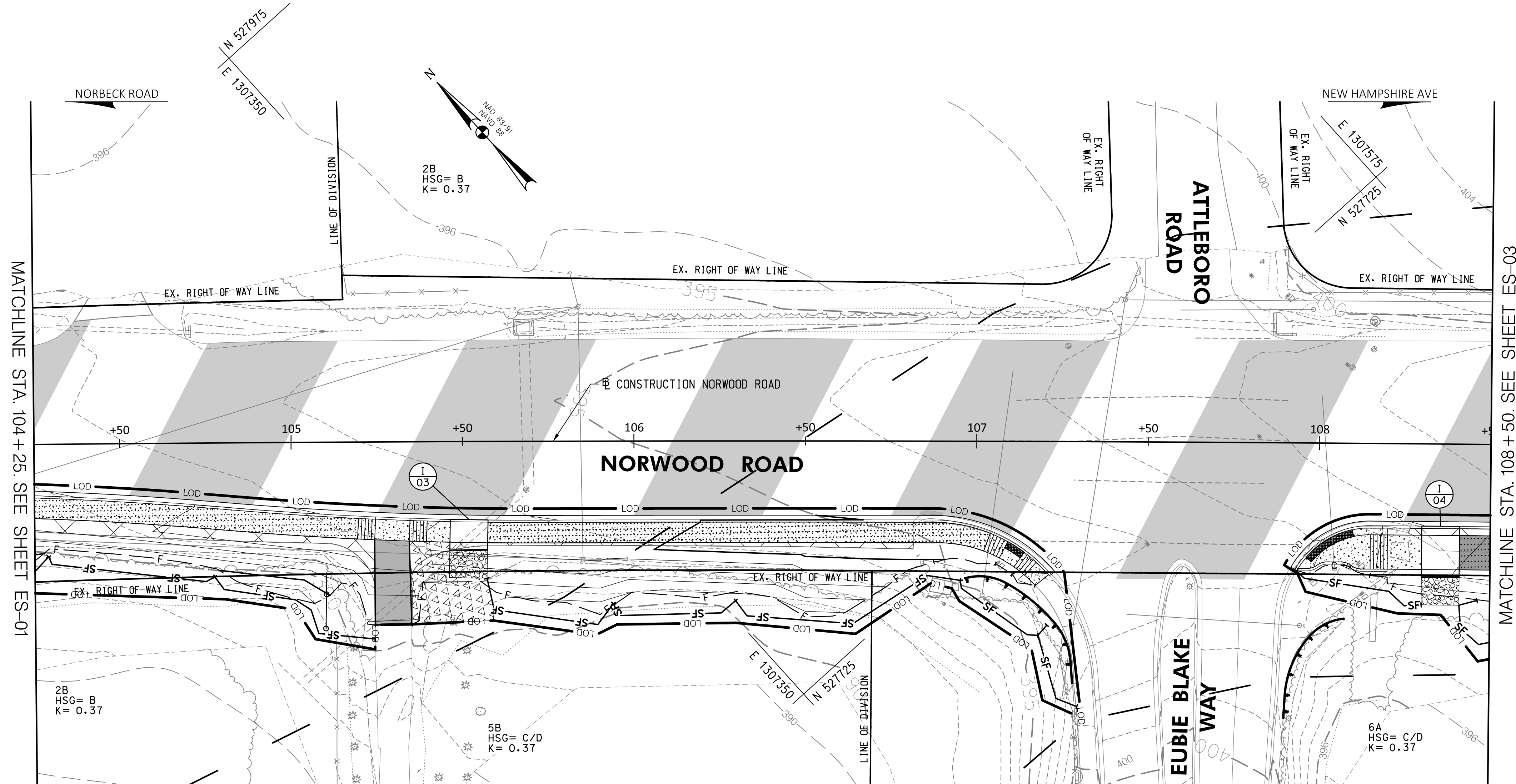
**PLAN SHEET ES-01**  
**ESC PLAN**  
**NORWOOD ROAD**  
**SHARED USE PATH**  
**STA. 100+00 TO STA. 104+25**

SCALE : 1"=20'      DATE : JAN, 2024

PROJECT NO.: C.I.P. # PENDING      SHEET NO. 24 OF 133

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BY: LWildfire



MATCHLINE STA. 104+25. SEE SHEET ES-01

MATCHLINE STA. 108+50. SEE SHEET ES-03




**30% SUBMITTAL**

DATUM: NAD 83/91 HORIZONTAL  
NAVD 88 VERTICAL

- GENERAL NOTES:**
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  - FOR PAVEMENT MARKINGS REFER TO SIGNING AND PAVEMENT MARKING PLANS SN-2.1 TO SN-2.6.
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PROFESSIONAL CERTIFICATION	SEAL
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LICENSE NO.: 16142	
EXP. DATE: 08 /17 /2024	DATE:

 MONTGOMERY COUNTY DEPARTMENT OF TRANSPORTATION 100 EDISON PARK DRIVE, 4TH FLOOR GAITHERSBURG, MD 20878	
RECOMMENDED FOR APPROVAL	
Chief, Design Section	DATE
APPROVED	
Chief, Division of Engineering Services	DATE
DESIGNED BY: L.E.W.	DRAWN BY: L.E.W.
CHECKED BY: G.W.M.	

**PLAN SHEET ES-02  
ESC PLAN  
NORWOOD ROAD  
SHARED USE PATH  
STA. 104+25 TO STA. 108+50**

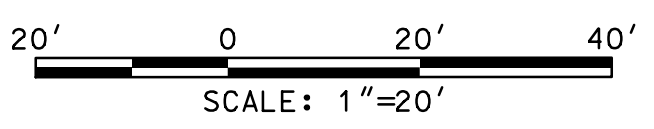
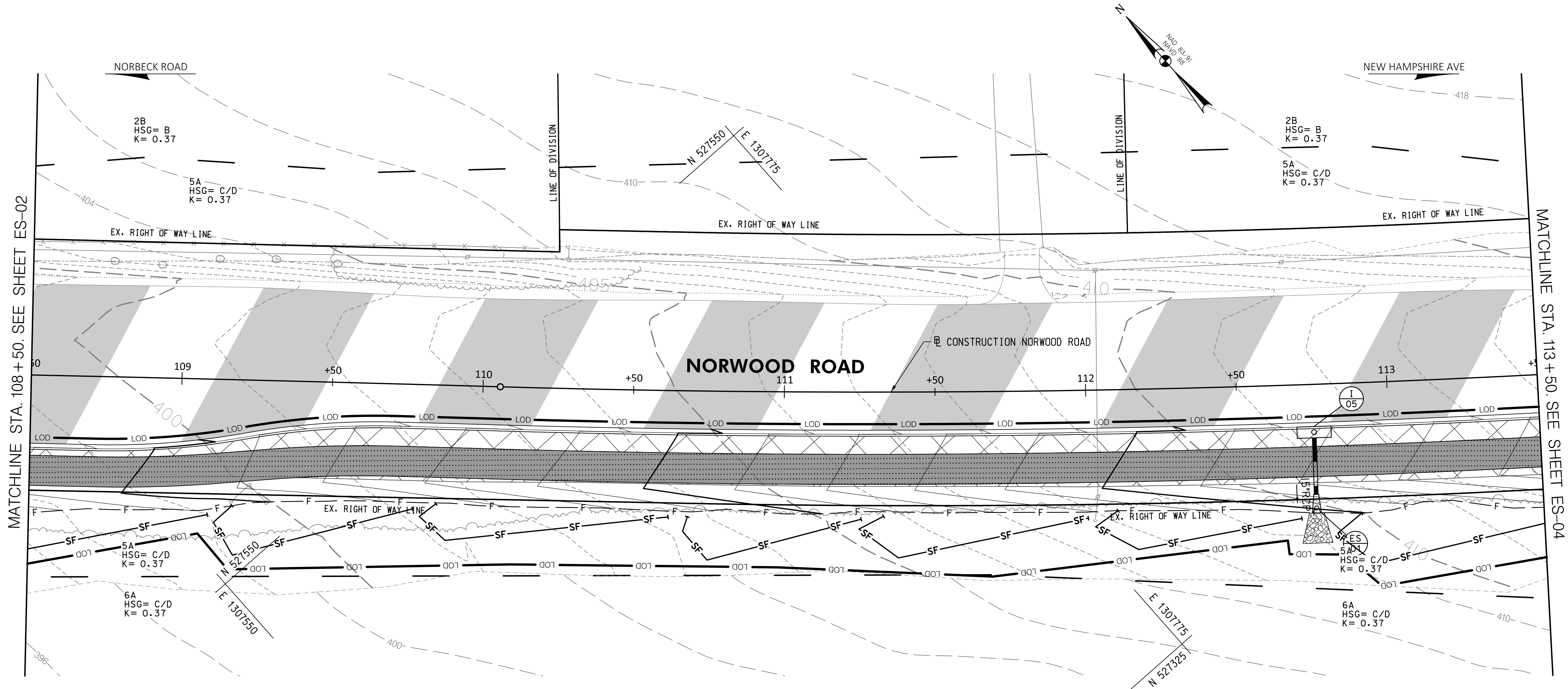
SCALE: 1"=20'      DATE: JAN, 2024

PROJECT NO.:	C.I.P. # PENDING	SHEET NO. 25 OF 133
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BY: LWildfire



**30% SUBMITTAL**

DATUM: NAD 83/91 HORIZONTAL  
NAVD 88 VERTICAL

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PROFESSIONAL CERTIFICATION	SEAL
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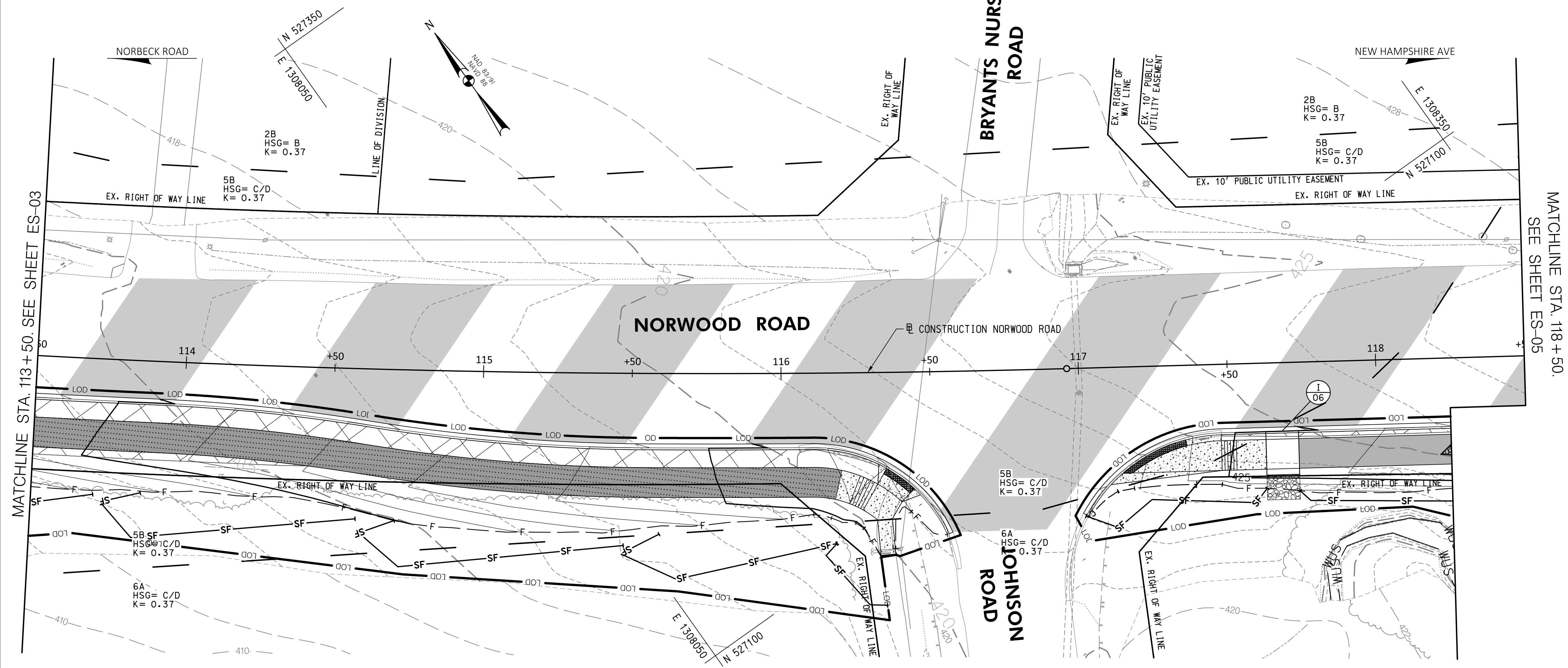
NO.	REVISION	DATE	BY

MONTGOMERY COUNTY DEPARTMENT OF TRANSPORTATION 100 EDISON PARK DRIVE, 4TH FLOOR GAITHERSBURG, MD 20878	
RECOMMENDED FOR APPROVAL	
Chief, Design Section	DATE
APPROVED	
Chief, Division of Engineering Services	DATE
DESIGNED BY: L.E.W.	DRAWN BY: L.E.W. CHECKED BY: G.W.M.

<b>PLAN SHEET ES-03 ESC PLAN NORWOOD ROAD SHARED USE PATH STA. 108+50 TO STA. 113+50</b>	
SCALE: 1"=20'	DATE: JAN, 2024
PROJECT NO.: C.I.P. # PENDING	SHEET NO. 26 OF 133

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BY: LWildfire



MATCHLINE STA. 113+50. SEE SHEET ES-03

MATCHLINE STA. 118+50. SEE SHEET ES-05



**30% SUBMITTAL**

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DATUM: NAD 83/91 HORIZONTAL  
 NAVD 88 VERTICAL

PROFESSIONAL CERTIFICATION	SEAL
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DATE:	

NO.	REVISION	DATE	BY

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

RECOMMENDED FOR APPROVAL

Chief, Design Section \_\_\_\_\_ DATE \_\_\_\_\_  
 APPROVED

Chief, Division of Engineering Services \_\_\_\_\_ DATE \_\_\_\_\_

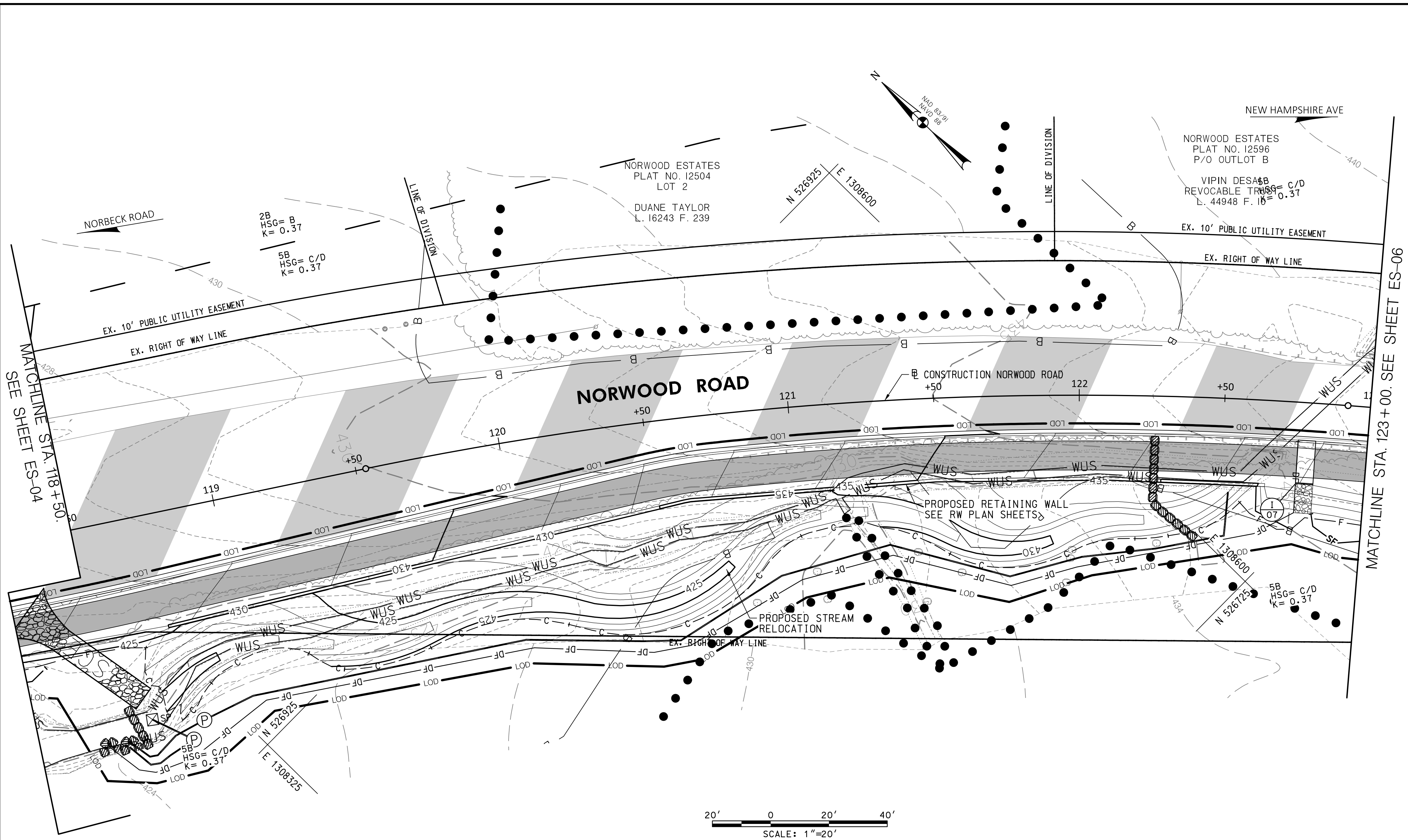
DESIGNED BY: L.E.W. DRAWN BY: L.E.W. CHECKED BY: G.W.M.

**PLAN SHEET ES-04  
 ESC PLAN  
 NORWOOD ROAD  
 SHARED USE PATH  
 STA. 113+50 TO STA. 118+50**

SCALE: 1"=20' DATE: JAN, 2024

PROJECT NO.: C.I.P. # PENDING SHEET NO. 27 OF 133

BY: LWildfire



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DATUM: NAD 83/91 HORIZONTAL  
 NAVD 88 VERTICAL

PROFESSIONAL CERTIFICATION	SEAL
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**30% SUBMITTAL**

NO.	REVISION	DATE	BY

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

RECOMMENDED FOR APPROVAL

Chief, Design Section \_\_\_\_\_ DATE \_\_\_\_\_  
 APPROVED

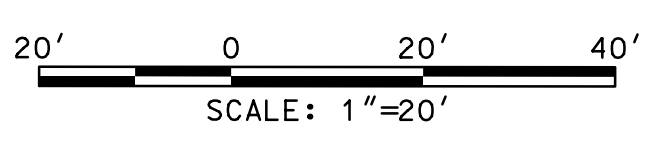
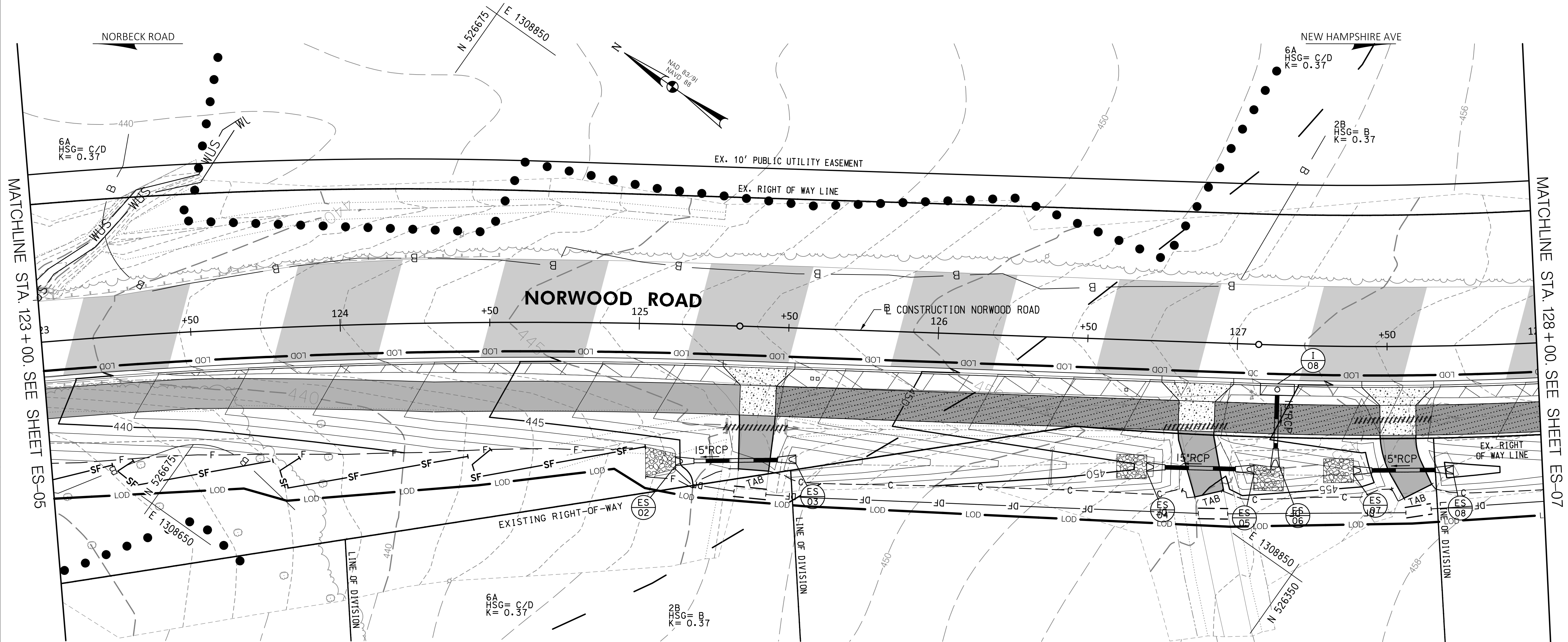
Chief, Division of Engineering Services \_\_\_\_\_ DATE \_\_\_\_\_

DESIGNED BY: L.E.W. DRAWN BY: L.E.W. CHECKED BY: G.W.M.

**PLAN SHEET PS-05  
 ROADWAY PLAN  
 NORWOOD ROAD  
 SHARED USE PATH  
 STA. 118+50 TO STA. 123+00**

SCALE: 1"=20' DATE: JAN, 2024

PROJECT NO.: C.I.P. # PENDING SHEET NO. 28 OF 133



**30% SUBMITTAL**

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DATUM: NAD 83/91 HORIZONTAL  
 NAVD 88 VERTICAL

PROFESSIONAL CERTIFICATION	SEAL
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LICENSE NO.: 16142	
EXP. DATE: 08/17/2024	DATE:

NO.	REVISION	DATE	BY

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

RECOMMENDED FOR APPROVAL

Chief, Design Section \_\_\_\_\_ DATE \_\_\_\_\_  
 APPROVED

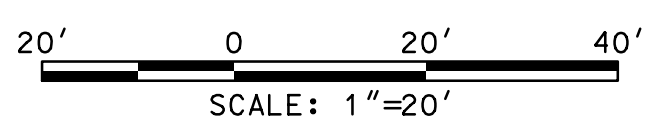
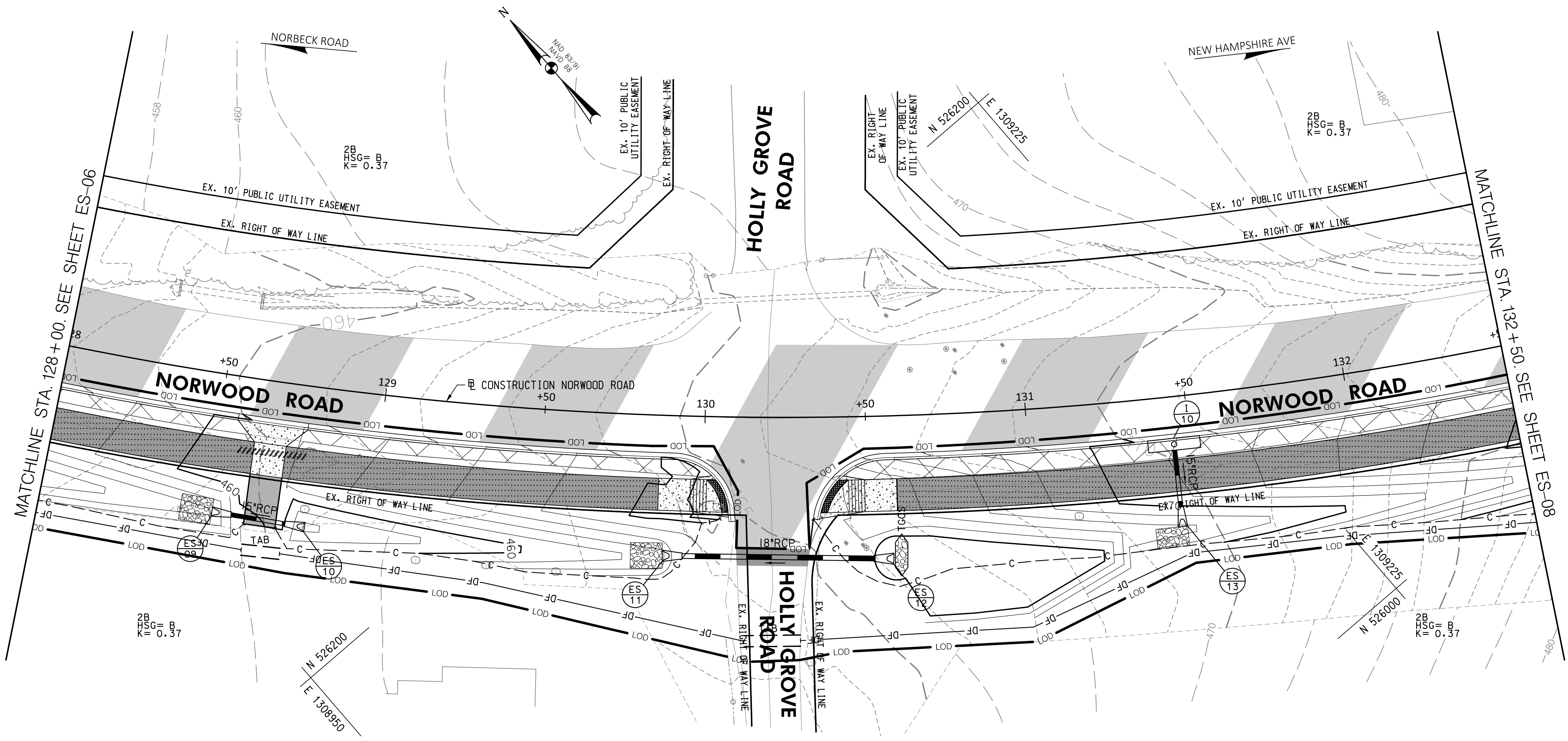
Chief, Division of Engineering Services \_\_\_\_\_ DATE \_\_\_\_\_

DESIGNED BY: L.E.W. DRAWN BY: L.E.W. CHECKED BY: G.W.M.

**PLAN SHEET ES-06  
 ESC PLAN  
 NORWOOD ROAD  
 SHARED USE PATH  
 STA. 123+00 TO STA. 128+00**

SCALE: 1"=20' DATE: JAN, 2024

PROJECT NO.: C.I.P. # PENDING SHEET NO. 29 OF 133



**30% SUBMITTAL**

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DATUM: NAD 83/91 HORIZONTAL  
 NAVD 88 VERTICAL

PROFESSIONAL CERTIFICATION	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. GLENN W. MARSCHKE LICENSE NO.: 16142 EXP. DATE: 08 /17 /2024	DATE:

NO.	REVISION	DATE	BY

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

RECOMMENDED FOR APPROVAL

Chief, Design Section \_\_\_\_\_ DATE \_\_\_\_\_  
 APPROVED

Chief, Division of Engineering Services \_\_\_\_\_ DATE \_\_\_\_\_

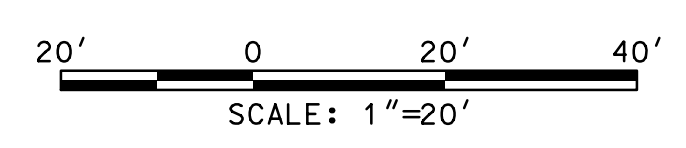
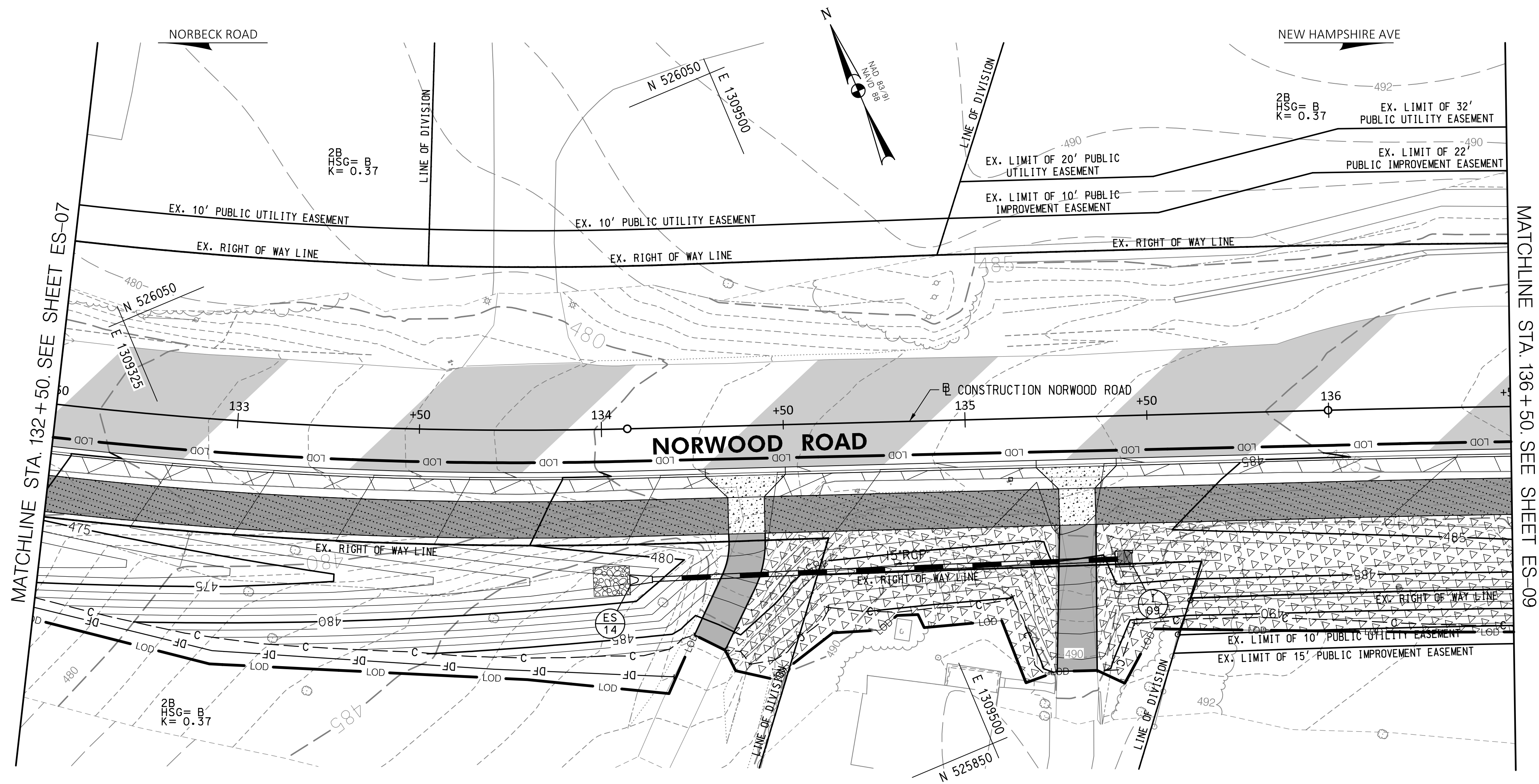
DESIGNED BY: L.E.W. DRAWN BY: L.E.W. CHECKED BY: G.W.M.

**PLAN SHEET ES-07  
 ESC PLAN  
 NORWOOD ROAD  
 SHARED USE PATH  
 STA. 128+00 TO STA. 132+50**

SCALE: 1"=20' DATE: JAN, 2024

PROJECT NO.: C.I.P. # PENDING SHEET NO. 30 OF 133






**30% SUBMITTAL**

- GENERAL NOTES:**
- EXISTING RIGHT OF WAY LINES ARE BASED ON EXISTING RIGHT OF WAY INFORMATION.
  - FOR PAVEMENT MARKINGS REFER TO SIGNING AND PAVEMENT MARKING PLANS SN-2.1 TO SN-2.6.
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DATUM: NAD 83/91 HORIZONTAL  
NAVD 88 VERTICAL

PROFESSIONAL CERTIFICATION	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. GLENN W. MARSCHKE LICENSE NO.: 16142 EXP. DATE: 08/17/2024	DATE:

NO.	REVISION	DATE	BY

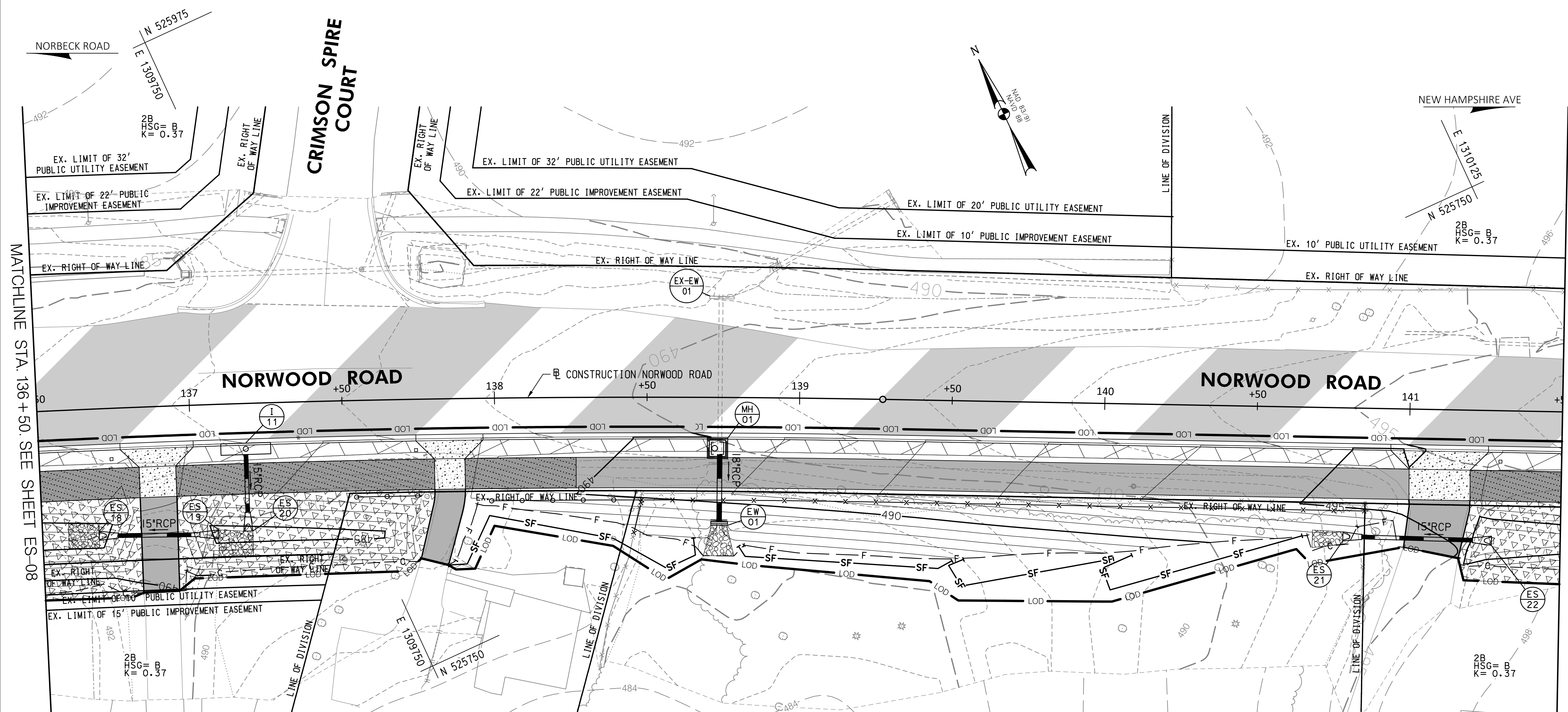
 MONTGOMERY COUNTY DEPARTMENT OF TRANSPORTATION 100 EDISON PARK DRIVE, 4TH FLOOR GAITHERSBURG, MD 20878	
RECOMMENDED FOR APPROVAL	
Chief, Design Section	DATE
APPROVED	
Chief, Division of Engineering Services	DATE
DESIGNED BY: L.E.W.	DRAWN BY: L.E.W. CHECKED BY: G.W.M.

<b>PLAN SHEET ES-08</b> <b>ESC PLAN</b> <b>NORWOOD ROAD</b> <b>SHARED USE PATH</b> <b>STA. 132+50 TO STA. 136+50</b>	
SCALE: 1"=20'	DATE: JAN, 2024
PROJECT NO.: C.I.P. # PENDING	SHEET NO. 31 OF 133



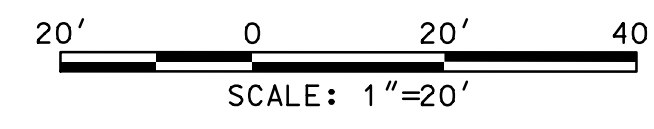
**WALLACE MONTGOMERY**  
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BY: LWildfire



MATCHLINE STA. 136+50. SEE SHEET ES-08

MATCHLINE STA. 141+50. SEE SHEET ES-10



**30% SUBMITTAL**

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DATUM: NAD 83/91 HORIZONTAL  
 NAVD 88 VERTICAL

PROFESSIONAL CERTIFICATION	SEAL
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DATE:	

NO.	REVISION	DATE	BY

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

RECOMMENDED FOR APPROVAL

Chief, Design Section \_\_\_\_\_ DATE \_\_\_\_\_  
 APPROVED

Chief, Division of Engineering Services \_\_\_\_\_ DATE \_\_\_\_\_

DESIGNED BY: L.E.W. DRAWN BY: L.E.W. CHECKED BY: G.W.M.

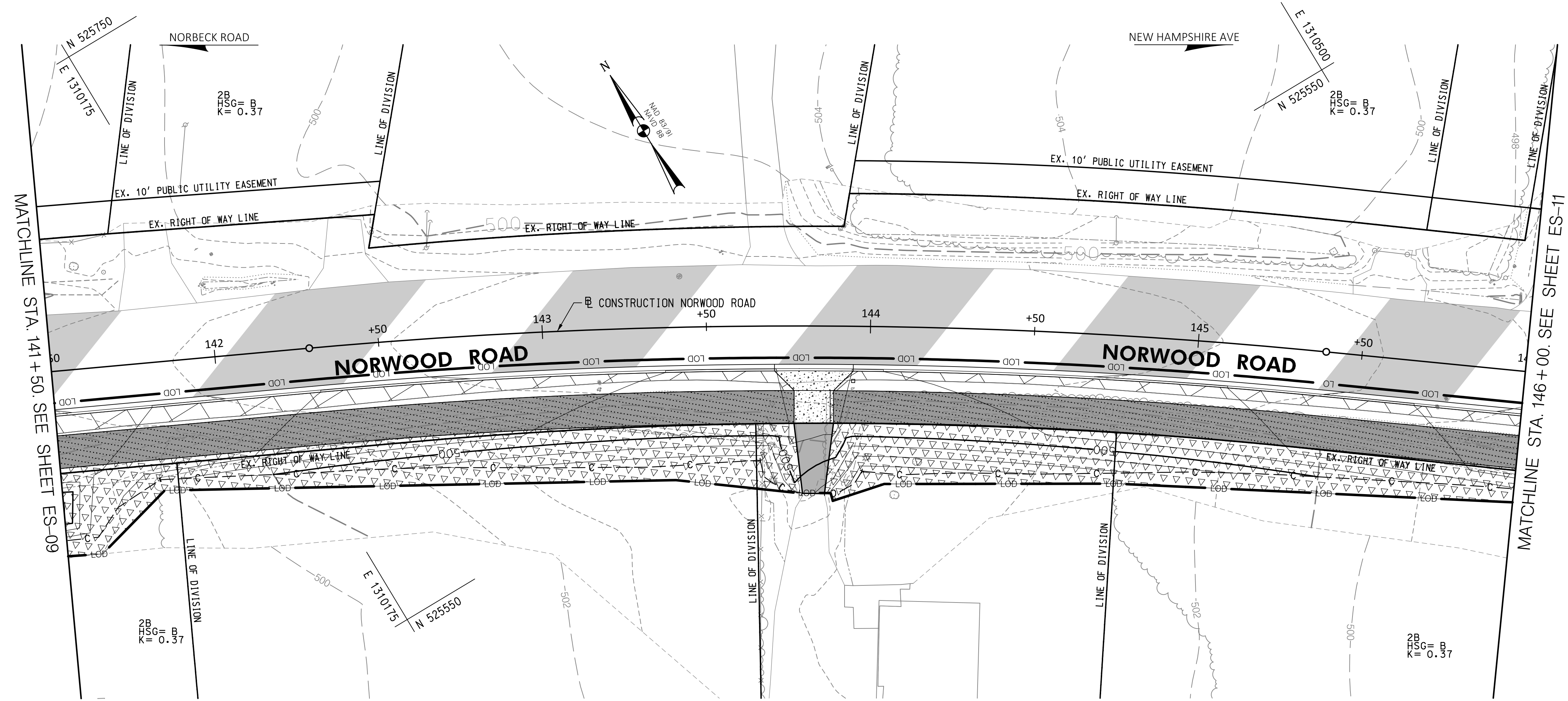
**PLAN SHEET ES-09  
 ESC PLAN  
 NORWOOD ROAD  
 SHARED USE PATH  
 STA. 136+50 TO STA. 141+50**

SCALE : 1"=20' DATE : JAN, 2024

PROJECT NO.: C.I.P. # PENDING SHEET NO. 32 OF 133

BY: LWildfire

**(N-8)**  
 CURVE DATA  
 $\Delta = 10^\circ 48' 36.0''$   
 $Dc = 3^\circ 29' 04.6''$   
 $R = 1644.25'$   
 $T = 155.57'$   
 $L = 310.22'$   
 $E = 7.34'$



**30% SUBMITTAL**

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DATUM: NAD 83/91 HORIZONTAL  
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PROFESSIONAL CERTIFICATION	SEAL
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NO.	REVISION	DATE	BY

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

RECOMMENDED FOR APPROVAL

Chief, Design Section DATE  
 APPROVED

Chief, Division of Engineering Services DATE

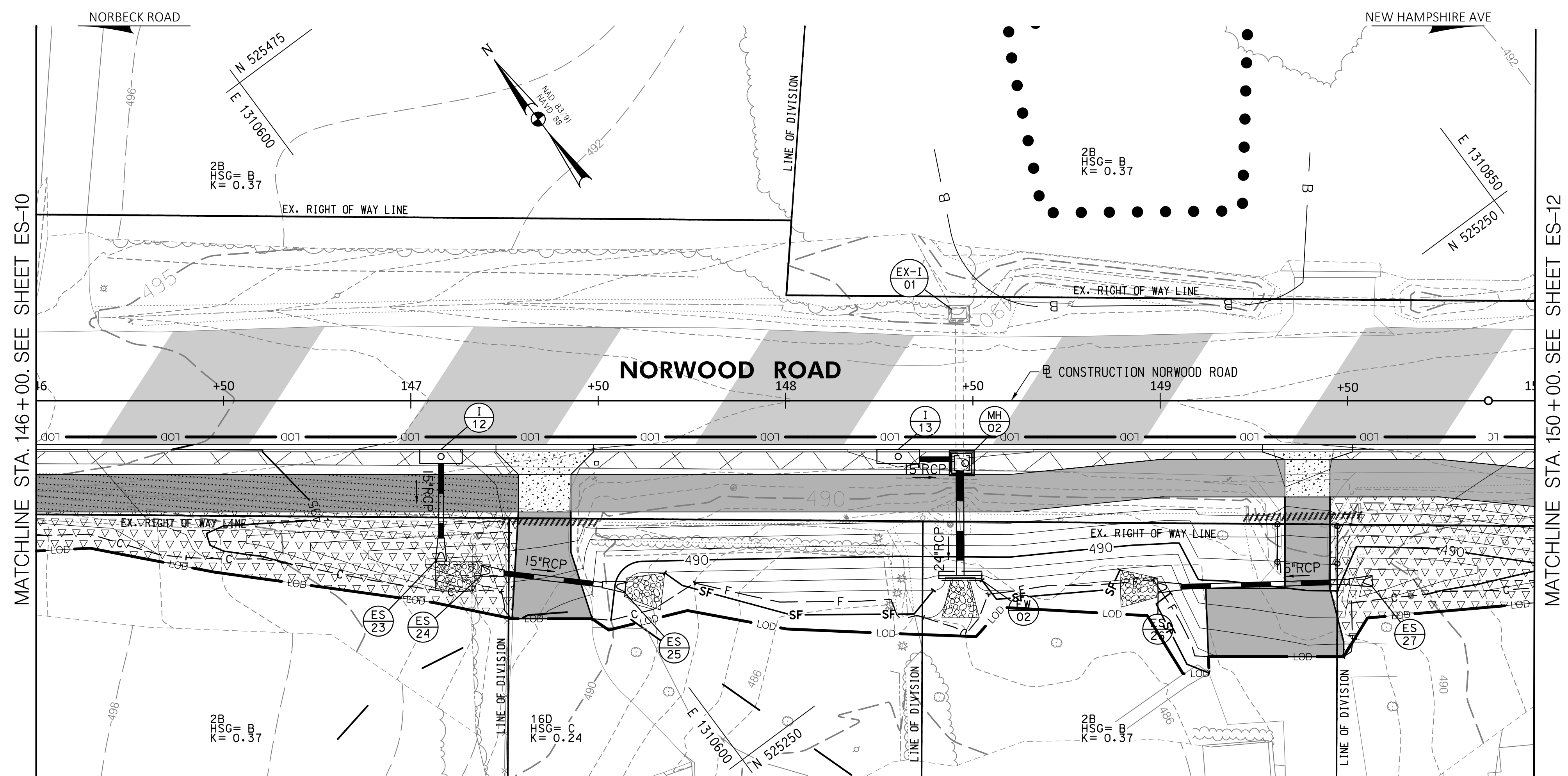
DESIGNED BY: L.E.W. DRAWN BY: L.E.W. CHECKED BY: G.W.M.

**PLAN SHEET ES-10  
 ESC PLAN  
 NORWOOD ROAD  
 SHARED USE PATH  
 STA. 141+50 TO STA. 146+00**

SCALE: 1"=20' DATE: JAN, 2024

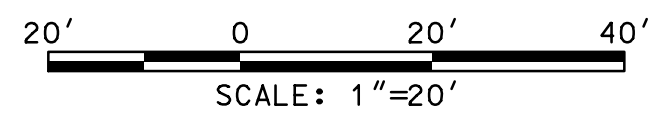
PROJECT NO.: C.I.P. # PENDING SHEET NO. 33 OF 133

BY: LWildfire



MATCHLINE STA. 146+00. SEE SHEET ES-10

MATCHLINE STA. 150+00. SEE SHEET ES-12




### 30% SUBMITTAL

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NO.	REVISION	DATE	BY

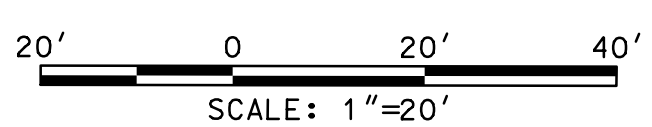
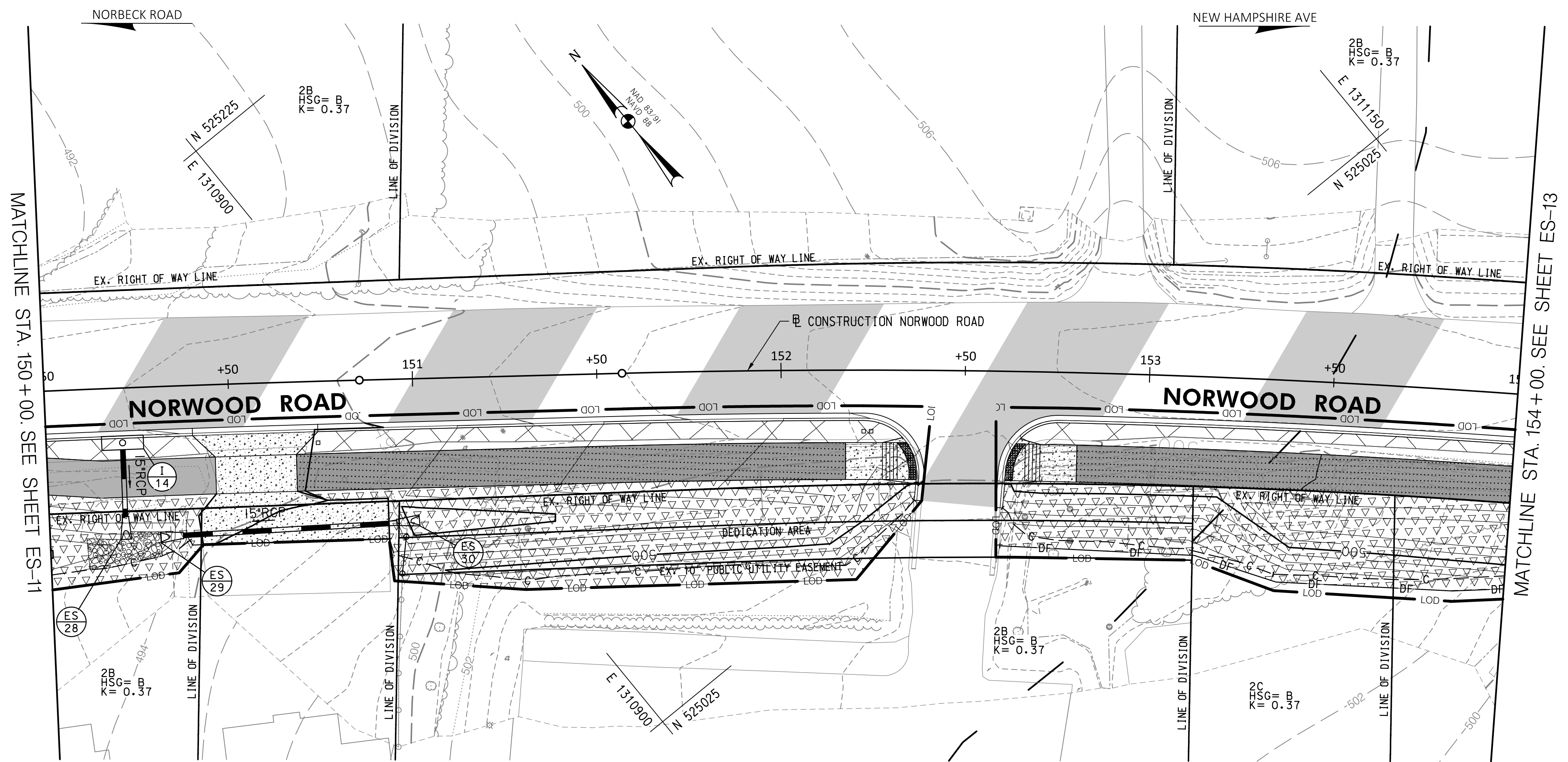
 MONTGOMERY COUNTY DEPARTMENT OF TRANSPORTATION 100 EDISON PARK DRIVE, 4TH FLOOR GAITHERSBURG, MD 20878	
RECOMMENDED FOR APPROVAL	
Chief, Design Section	DATE
APPROVED	
Chief, Division of Engineering Services	DATE
DESIGNED BY: L.E.W.	DRAWN BY: L.E.W. CHECKED BY: G.W.M.

<b>PLAN SHEET ES-11</b> <b>ESC PLAN</b> <b>NORWOOD ROAD</b> <b>SHARED USE PATH</b> <b>STA. 146+00 TO STA. 150+00</b>	
SCALE : 1"=20'	DATE : JAN, 2024
PROJECT NO.: C.I.P. # PENDING	SHEET NO. 34 OF 133



**WALLACE MONTGOMERY**  
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BY: LWildfire




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NO.	REVISION	DATE	BY

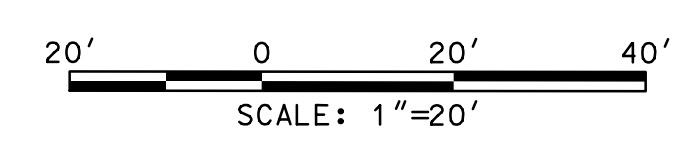
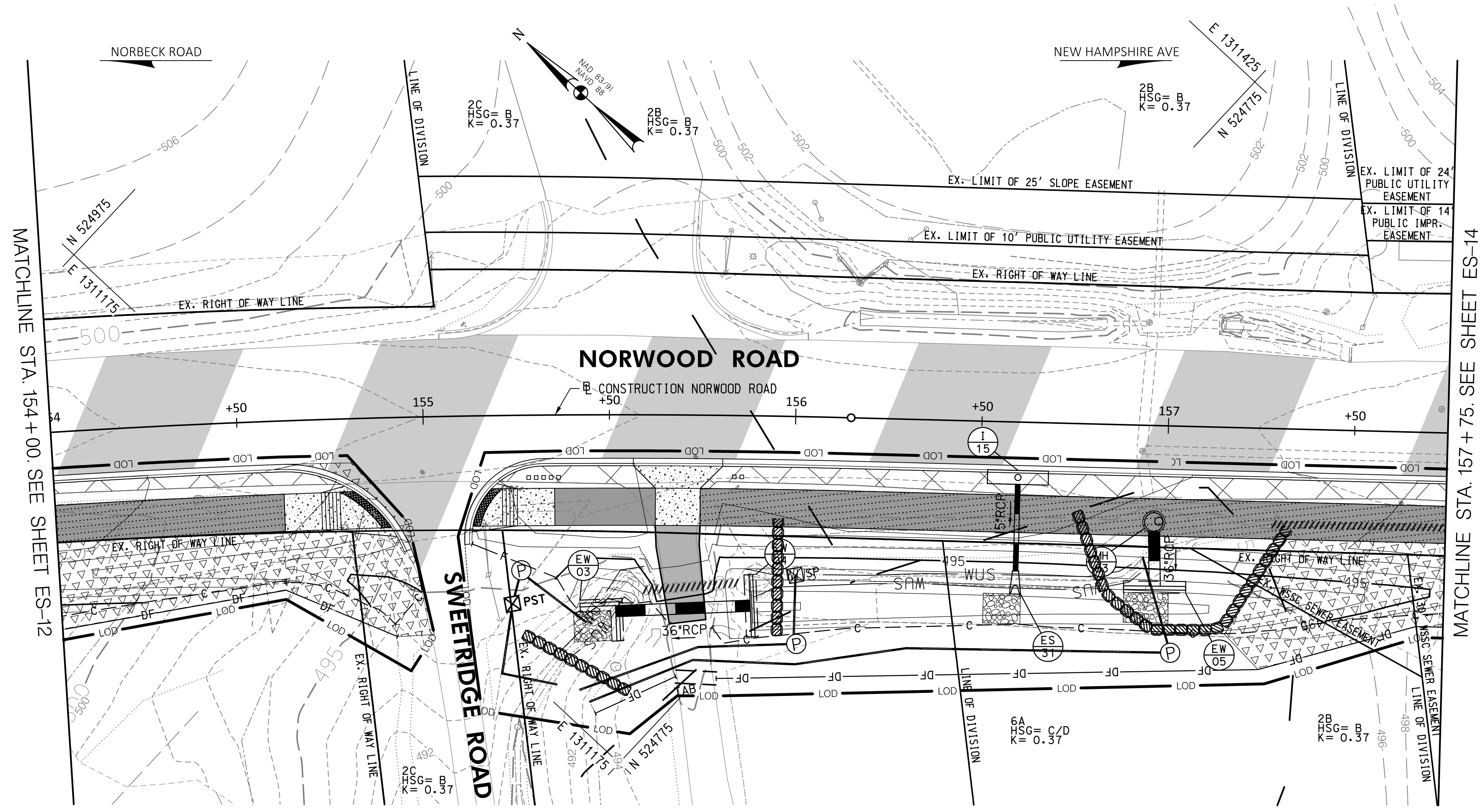
 MONTGOMERY COUNTY DEPARTMENT OF TRANSPORTATION 100 EDISON PARK DRIVE, 4TH FLOOR GAITHERSBURG, MD 20878	
RECOMMENDED FOR APPROVAL	
Chief, Design Section	DATE
APPROVED	
Chief, Division of Engineering Services	DATE
DESIGNED BY: L.E.W.	DRAWN BY: L.E.W. CHECKED BY: G.W.M.

<b>PLAN SHEET ES-12</b> <b>ESC PLANS</b> <b>NORWOOD ROAD</b> <b>SHARED USE PATH</b> <b>STA. 150+00 TO STA. 154+00</b>	
SCALE : 1"=20'	DATE : JAN, 2024
PROJECT NO.: C.I.P. # PENDING	SHEET NO. 35 OF 133



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BY: LWildfire




**30% SUBMITTAL**

- GENERAL NOTES:**
- EXISTING RIGHT OF WAY LINES ARE BASED ON EXISTING RIGHT OF WAY INFORMATION.
  - FOR PAVEMENT MARKINGS REFER TO SIGNING AND PAVEMENT MARKING PLANS SN-2.1 TO SN-2.6.
  - ALL DIMENSIONS MEASURED TO THE FACE OF THE CURB.

DATUM: NAD 83/91 HORIZONTAL  
NAVD 88 VERTICAL

PROFESSIONAL CERTIFICATION	SEAL
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 MONTGOMERY COUNTY DEPARTMENT OF TRANSPORTATION 100 EDISON PARK DRIVE, 4TH FLOOR GAITHERSBURG, MD 20878	
RECOMMENDED FOR APPROVAL	
Chief, Design Section	DATE
APPROVED	
Chief, Division of Engineering Services	DATE
DESIGNED BY: L.E.W.	DRAWN BY: L.E.W. CHECKED BY: G.W.M.

**PLAN SHEET ES-13  
ESC PLAN**

**NORWOOD ROAD  
SHARED USE PATH**

**STA. 154+00 TO STA. 157+75**

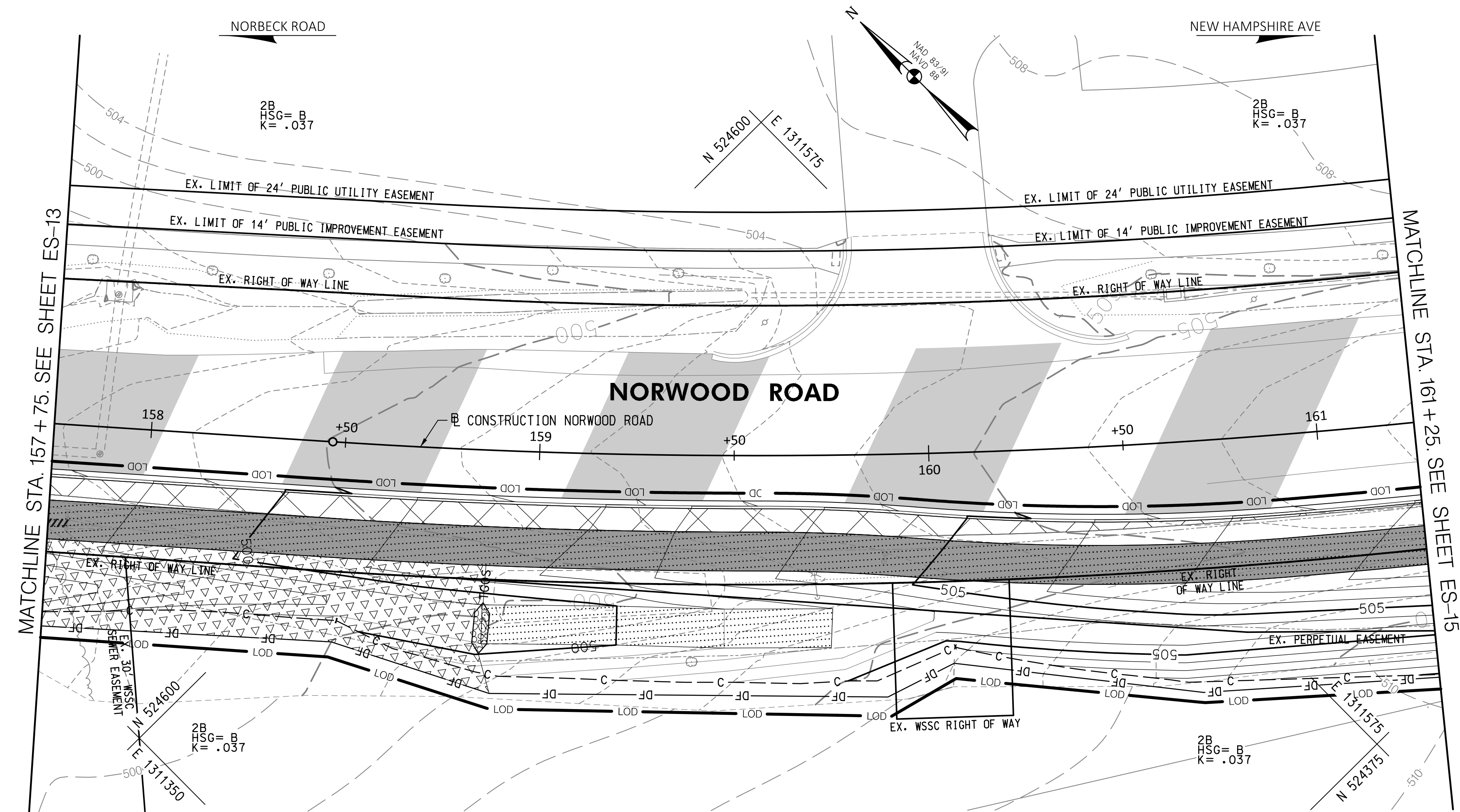
SCALE : 1" = 20'      DATE : JAN, 2024

PROJECT NO.: C.I.P. # PENDING      SHEET NO. 36 OF 133



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BY: L.Wildfire




**30% SUBMITTAL**

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  - FOR PAVEMENT MARKINGS REFER TO SIGNING AND PAVEMENT MARKING PLANS SN-2.1 TO SN-2.6.
  - ALL DIMENSIONS MEASURED TO THE FACE OF THE CURB.

DATUM: NAD 83/91 HORIZONTAL  
NAVD 88 VERTICAL

PROFESSIONAL CERTIFICATION	SEAL
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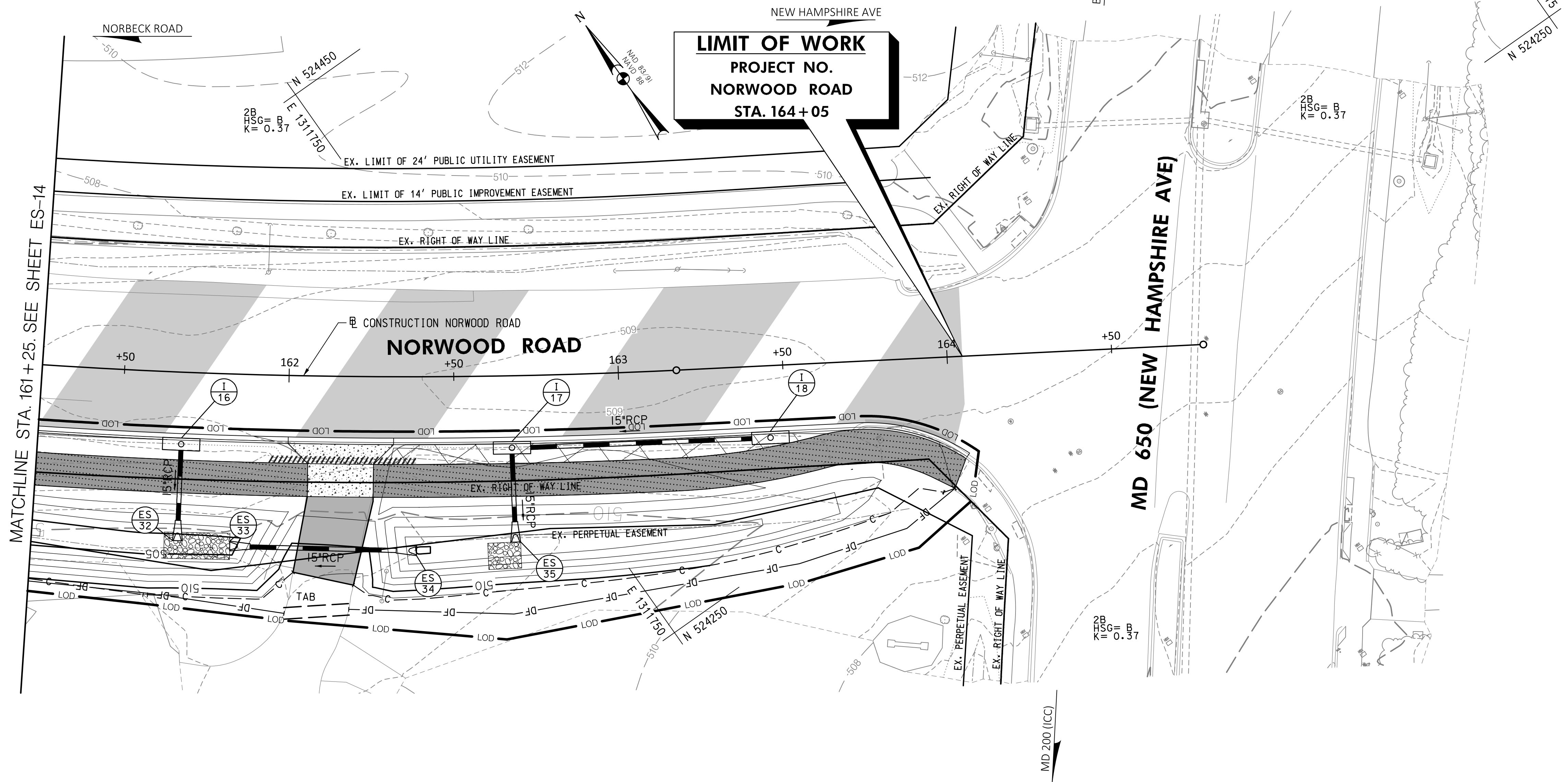
NO.	REVISION	DATE	BY

 MONTGOMERY COUNTY DEPARTMENT OF TRANSPORTATION 100 EDISON PARK DRIVE, 4TH FLOOR GAITHERSBURG, MD 20878	
RECOMMENDED FOR APPROVAL	
Chief, Design Section	DATE
APPROVED	
Chief, Division of Engineering Services	DATE
DESIGNED BY: L.E.W.	DRAWN BY: L.E.W. CHECKED BY: G.W.M.

<b>PLAN SHEET ES-14</b> <b>ESC PLAN</b> <b>NORWOOD ROAD</b> <b>SHARED USE PATH</b> <b>STA. 157+75 TO STA. 161+25</b>	
SCALE: 1"=20'	DATE: JAN, 2024
PROJECT NO.: C.I.P. # PENDING	SHEET NO. 37 OF 133

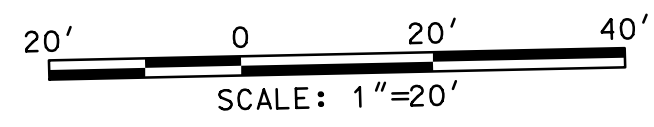
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BY: L.Wildfire



**LIMIT OF WORK**  
**PROJECT NO.**  
**NORWOOD ROAD**  
**STA. 164+05**

MATCHLINE STA. 161+25. SEE SHEET ES-14




**30% SUBMITTAL**

- GENERAL NOTES:**
- EXISTING RIGHT OF WAY LINES ARE BASED ON EXISTING RIGHT OF WAY INFORMATION.
  - FOR PAVEMENT MARKINGS REFER TO SIGNING AND PAVEMENT MARKING PLANS SN-2.1 TO SN-2.6.
  - ALL DIMENSIONS MEASURED TO THE FACE OF THE CURB.

DATUM: NAD 83/91 HORIZONTAL  
 NAVD 88 VERTICAL

PROFESSIONAL CERTIFICATION	SEAL
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DESIGNED BY: L.E.W.	DRAWN BY: L.E.W. CHECKED BY: G.W.M.

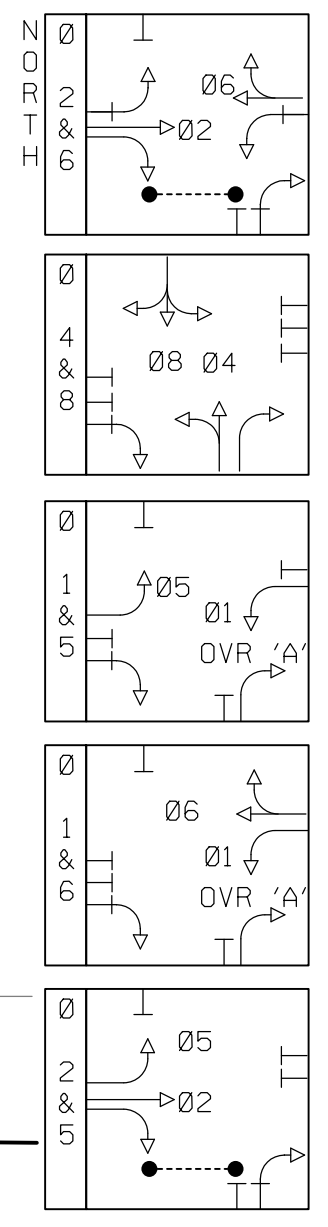
<b>PLAN SHEET ES-15</b> <b>ESC PLAN</b> <b>NORWOOD ROAD</b> <b>SHARED USE PATH</b> <b>STA. 161+25 TO STA. 164+77.94</b>	
SCALE: 1"=20'	DATE: JAN, 2024
PROJECT NO.: C.I.P. # PENDING	SHEET NO. 38 OF 133

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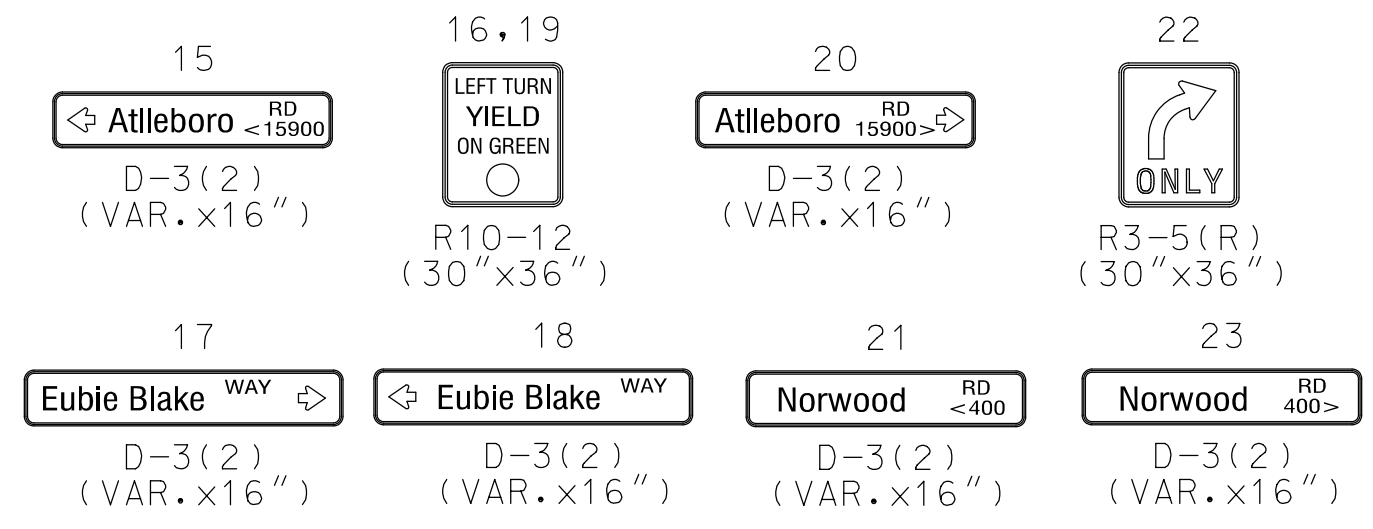
BY: LWildfire



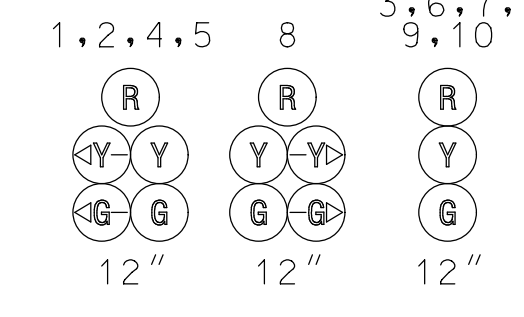
PHASING



EXISTING SIGNS TO REMAIN



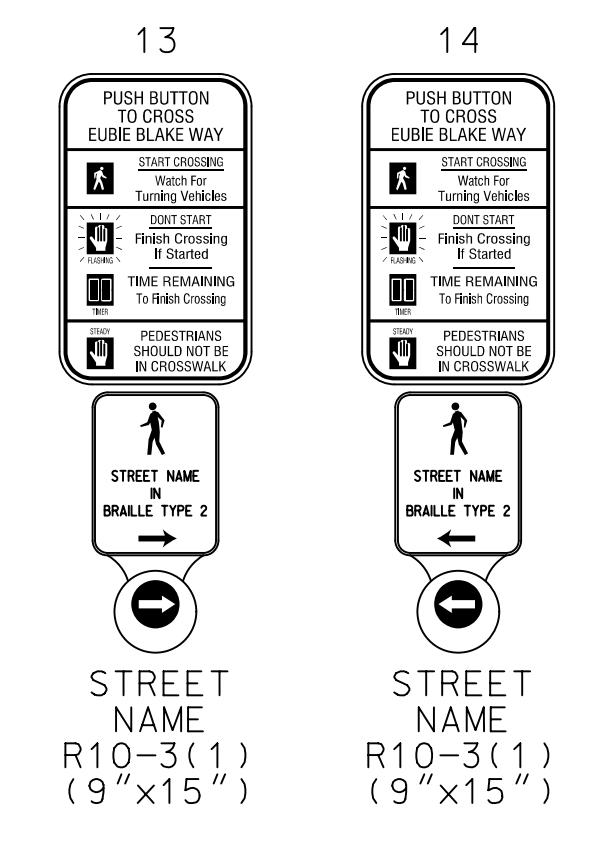
EXISTING SIGNALS TO REMAIN



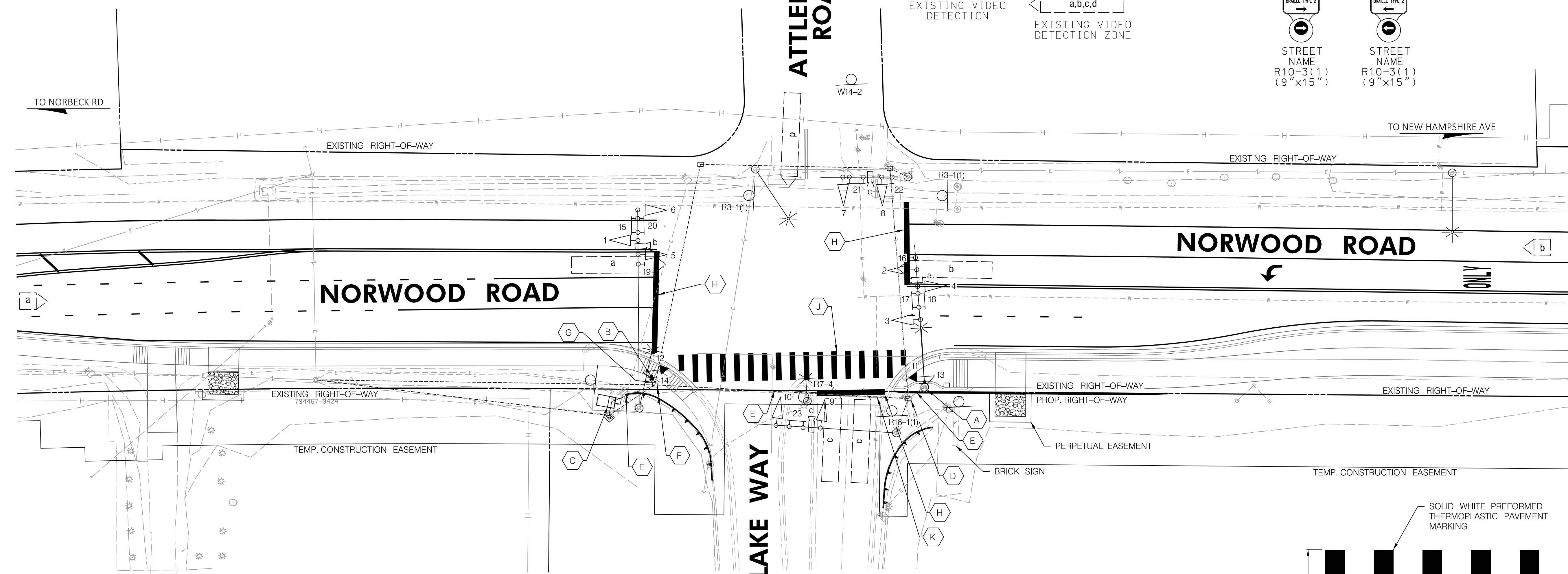
PROPOSED SIGNALS



PROPOSED SIGNS

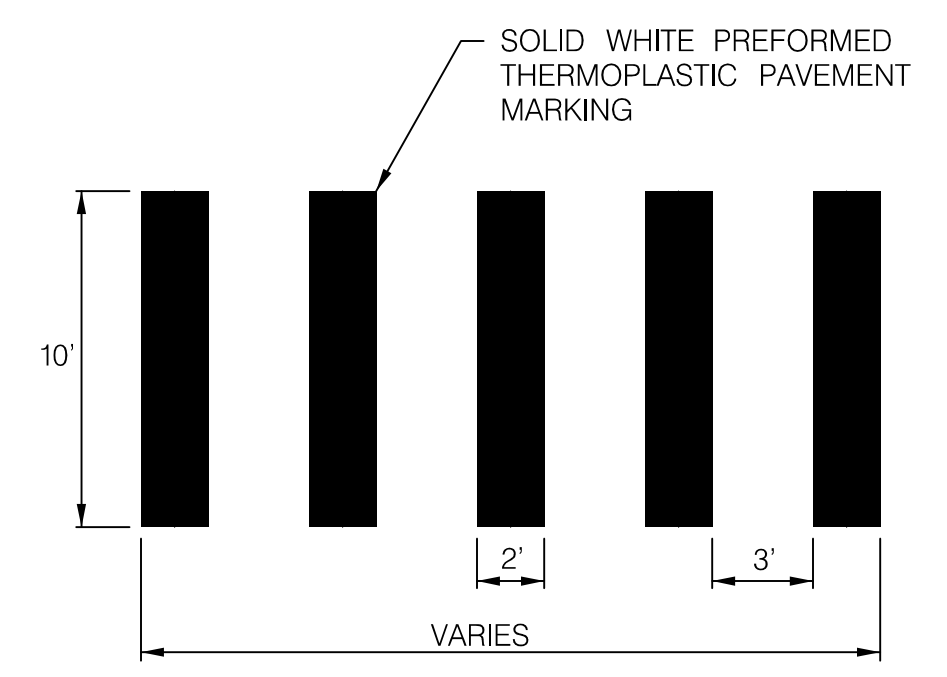


NOTE: NORWOOD ROAD IS CONSIDERED TO RUN IN A NORTH-SOUTH DIRECTION



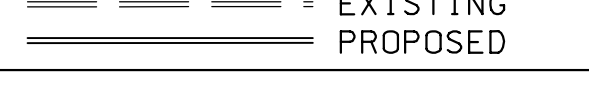
CONSTRUCTION DETAILS

- A. INSTALL NEW COUNTDOWN PEDESTRIAN SIGNAL, AUDIBLE/TACTILE PEDESTRIAN PUSHBUTTON SYSTEM WITH VIBRATING ARROW AND R10-3(1) SIGN TO READ "PUSH BUTTON TO CROSS EUBIE BLAKE WAY" ON TO EXISTING SIGNAL POLE.
- B. INSTALL 10 FT BREAKAWAY PEDESTAL POLE AND FOUNDATION (STD. MD 801.01) WITH NEW COUNTDOWN PEDESTRIAN SIGNAL, AUDIBLE/TACTILE PEDESTRIAN PUSHBUTTON SYSTEM WITH VIBRATING ARROW AND R10-3(1) SIGN TO READ "PUSH BUTTON TO CROSS EUBIE BLAKE WAY." (NOTE: ONE 3 INCH SCHEDULE 80 PVC 90 DEGREE CONDUIT ELBOW IN BASE).
- C. INSTALL APS CONTROL UNIT IN EXISTING CONTROLLER CABINET.
- D. USE EXISTING HANDHOLE.
- E. USE EXISTING COUNDUIT.
- F. MODIFY EXISTING HANDHOLE.
- G. INSTALL 3 IN SCHEDULE 80 PVC CONDUIT - TRENCHED.
- H. INSTALL 24 IN WHITE PREFORMED THERMOPLASTIC PAVEMENT MARKINGS FOR NEW STOP BAR.
- J. INSTALL 24 IN WHITE PREFORMED THERMOPLASTIC PAVEMENT MARKINGS FOR NEW CROSS WALK (SEE DETAIL ON THIS SHEET).
- K. EXISTING STOP BAR TO BE REMOVED BY MILL AND OVERLAY.

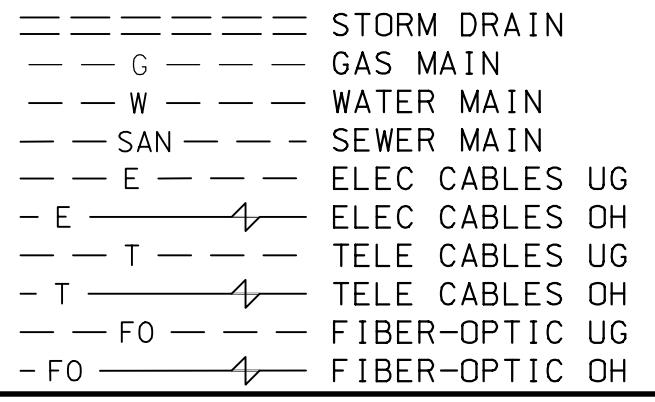


CROSSWALK PAVEMENT MARKING DETAIL  
NOT TO SCALE

GEOMETRIC LEGEND



UTILITY LEGEND



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DATUM: NAD 83/91 HORIZONTAL  
NAVD 88 VERTICAL

PROFESSIONAL CERTIFICATION  
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LICENSE NO.: 25173  
EXP. DATE: 06 / 21 / 2025

30% SUBMITTAL

NO.	REVISION	DATE	BY
1	P.B. & PED SIGNALS - WEST LEG	XX / 2024	WMA

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

RECOMMENDED FOR APPROVAL

Chief, Design Section DATE

APPROVED

Chief, Division of Engineering Services DATE

DESIGNED BY: B.R.P. DRAWN BY: G.N.C. CHECKED BY: J.L.R.

PLAN SHEET SG-01  
SIGNAL PLAN  
NORWOOD ROAD  
SHARED USE PATH  
NORWOOD ROAD AT  
EUBIE BLAKE WAY / ATLEBORO ROAD  
SCALE: 1"=20' DATE: JAN, 2024

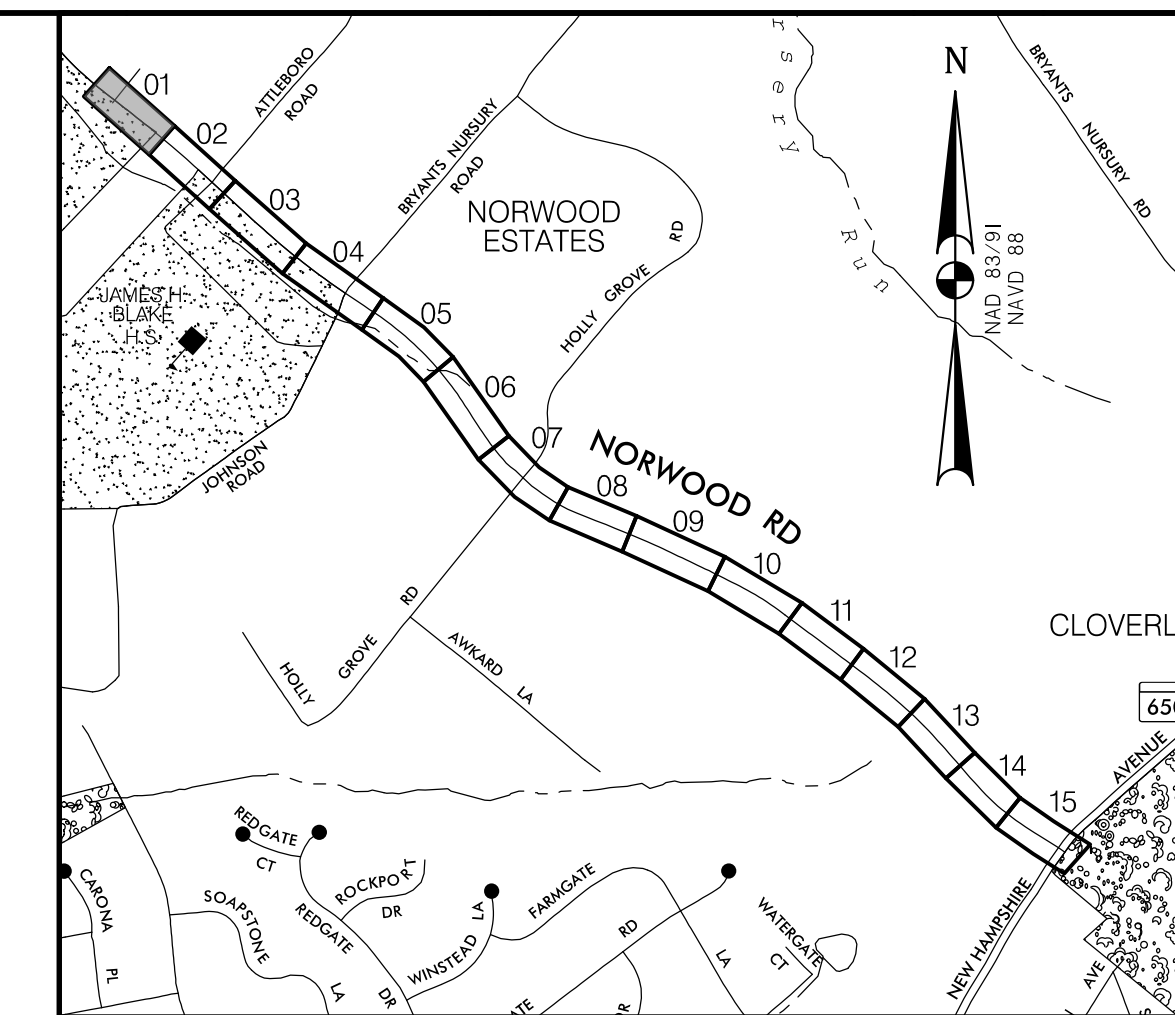
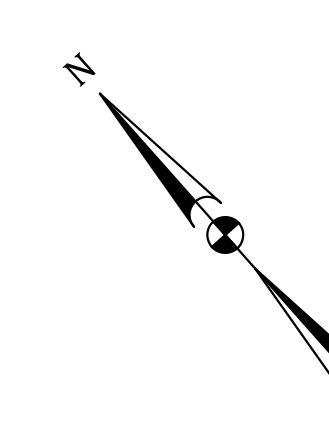
PROJECT NO.: C.I.P. # PENDING SHEET NO. 107 OF 133

BY: gcfitswell

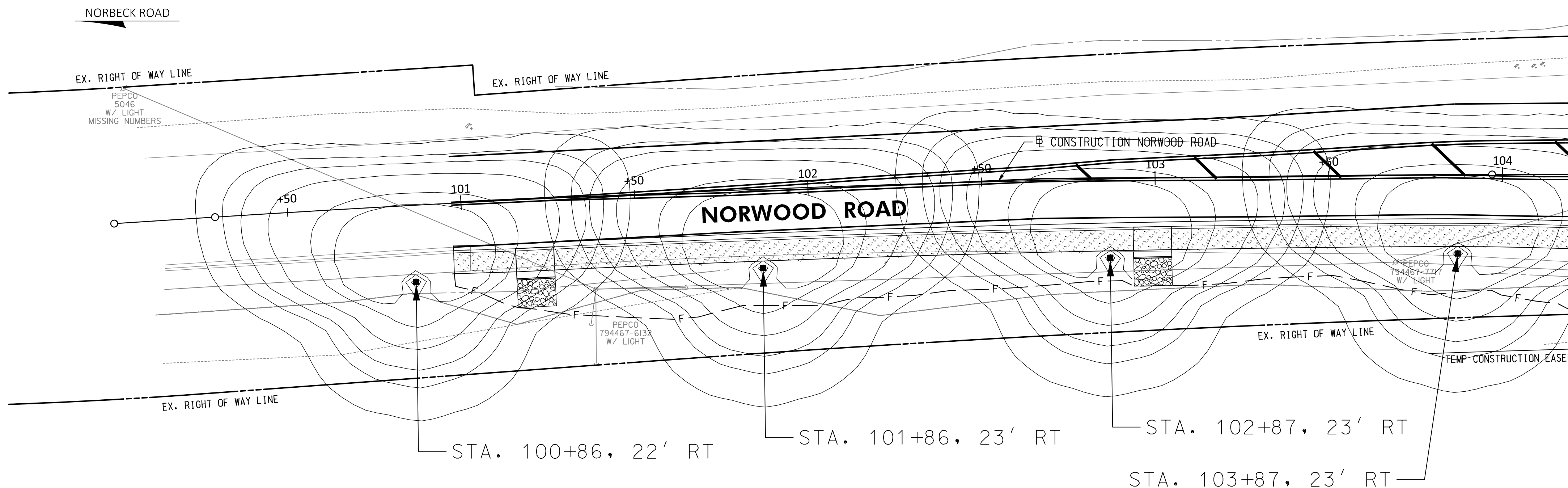
# LIGHTING CALCULATIONS

Roadway	Roadway Classification	Maximum Illuminance Level (fc)	Minimum Illuminance Level (fc)	Max / Min Illuminance Level (fc)	Average Illuminance ( $E_{avg}$ ) Min (fc) Recommended	Average Illuminance ( $E_{avg}$ ) Min (fc) Actual	Uniformity Ratio ( $E_{avg}/E_{min}$ ) Max Recommended	Uniformity Ratio ( $E_{avg}/E_{min}$ ) Max Actual
Zone 1 - From West LOW to Eubie Blake Way	Major/Collector	4.1	0.4	10.25	0.3	1.6	6.0	4.0
Zone 2 - From Eubie Blake Way to Johnson Road	Major/Collector	4.4	0.4	11	0.3	1.8	6.0	4.5
Zone 3 - Johnson Road to Holly Grove Road	Major/Collector	5.5	0.4	13.75	0.3	2.1	6.0	5.3
Zone 4 - Holly Grove Road to Chinmaya Mission Washinton Regional Center	Major/Collector	4.9	0.4	12.25	0.3	2.1	6.0	5.2
Zone 5 - Chinmaya Mission Washinton Regional Center to Sweetridge Road	Major/Collector	4.7	0.5	9.4	0.3	1.8	6.0	3.7
Zone 6 - Sweetridge Road to MD 650 (New Hampshire Avenue)	Major/Collector	5.3	0.5	10.6	0.3	2.0	6.0	4.0
Norwood Road - Overall	Major/Collector	5.5	0.4	13.8	0.3	2.0	6.0	5.0

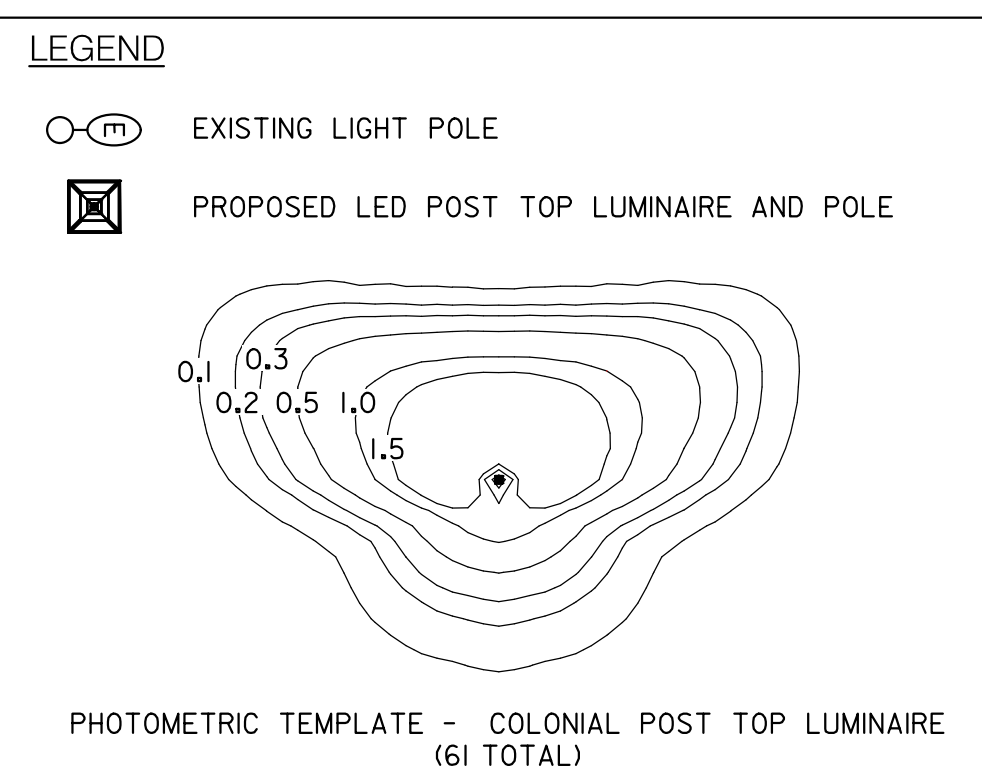
Recommended Illuminance Values for Low Density Residential from Table 7: Recommended Values for Low Pedestrian Conflict Areas of the ANSI / RP-8-00 Design Guide for Roadway Lighting



LOCATION MAP  
SCALE 1"=1000'



MATCHLINE STA. 104+25. SEE SHEET LT-02



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PROFESSIONAL CERTIFICATION

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LICENSE NO.: 25173  
EXP. DATE: 06/21/2025

SEAL

## 30% SUBMITTAL

NO.	REVISION	DATE	BY

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

RECOMMENDED FOR APPROVAL

Chief, Design Section \_\_\_\_\_ DATE \_\_\_\_\_  
APPROVED

Chief, Division of Engineering Services \_\_\_\_\_ DATE \_\_\_\_\_

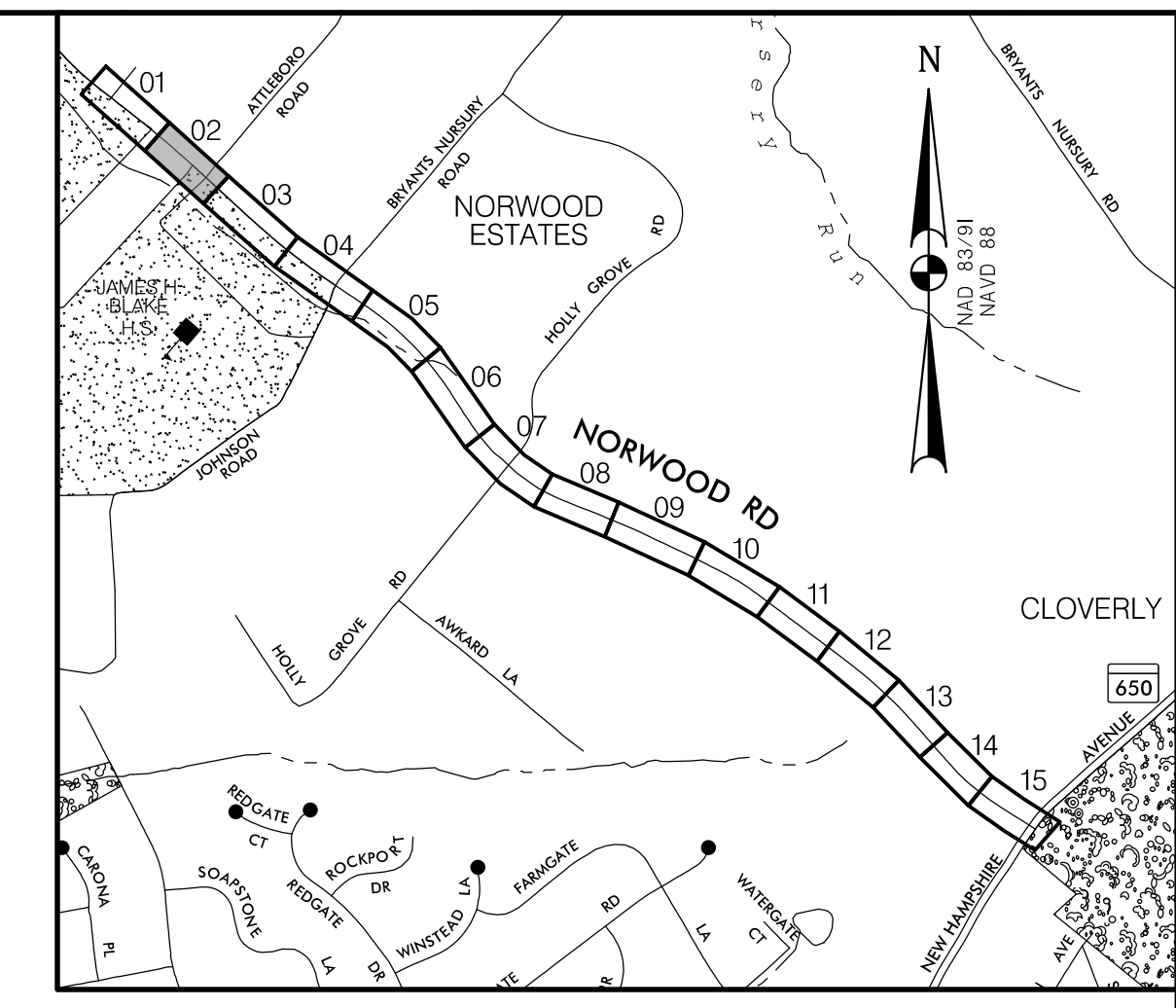
DESIGNED BY: D.M.J. DRAWN BY: D.M.J. CHECKED BY: J.L.R.

**PLAN SHEET LT-01  
LIGHTING PLAN  
NORWOOD ROAD  
SHARED USE PATH  
STA. 100+00 TO STA. 104+25**

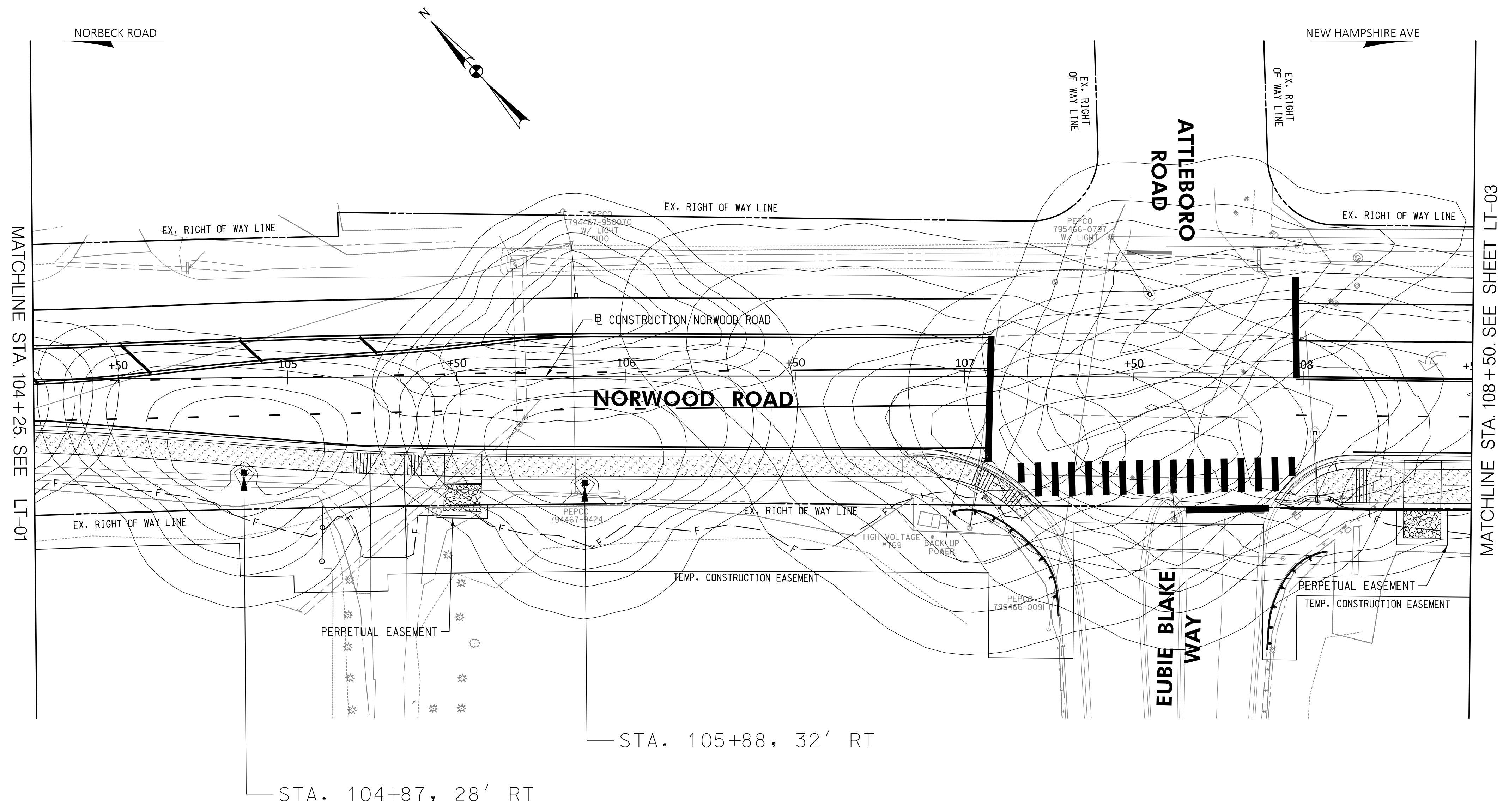
SCALE: 1"=20' DATE: JAN, 2024

PROJECT NO.: C.I.P. # PENDING SHEET NO. 108 OF 133

BY: gcrtswell



**LOCATION MAP**  
SCALE 1"=1000'



MATCHLINE STA. 104+25 SEE LT-01

MATCHLINE STA. 108+50 SEE SHEET LT-03

**LEGEND**

- EXISTING LIGHT POLE
- PROPOSED LED POST TOP LUMINAIRE AND POLE

PHOTOMETRIC TEMPLATE - COLONIAL POST TOP LUMINAIRE (6I TOTAL)

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100 EDISON PARK DRIVE, 4TH FLOOR  
GAITHERSBURG, MD 20878

RECOMMENDED FOR APPROVAL

Chief, Design Section \_\_\_\_\_ DATE \_\_\_\_\_  
APPROVED

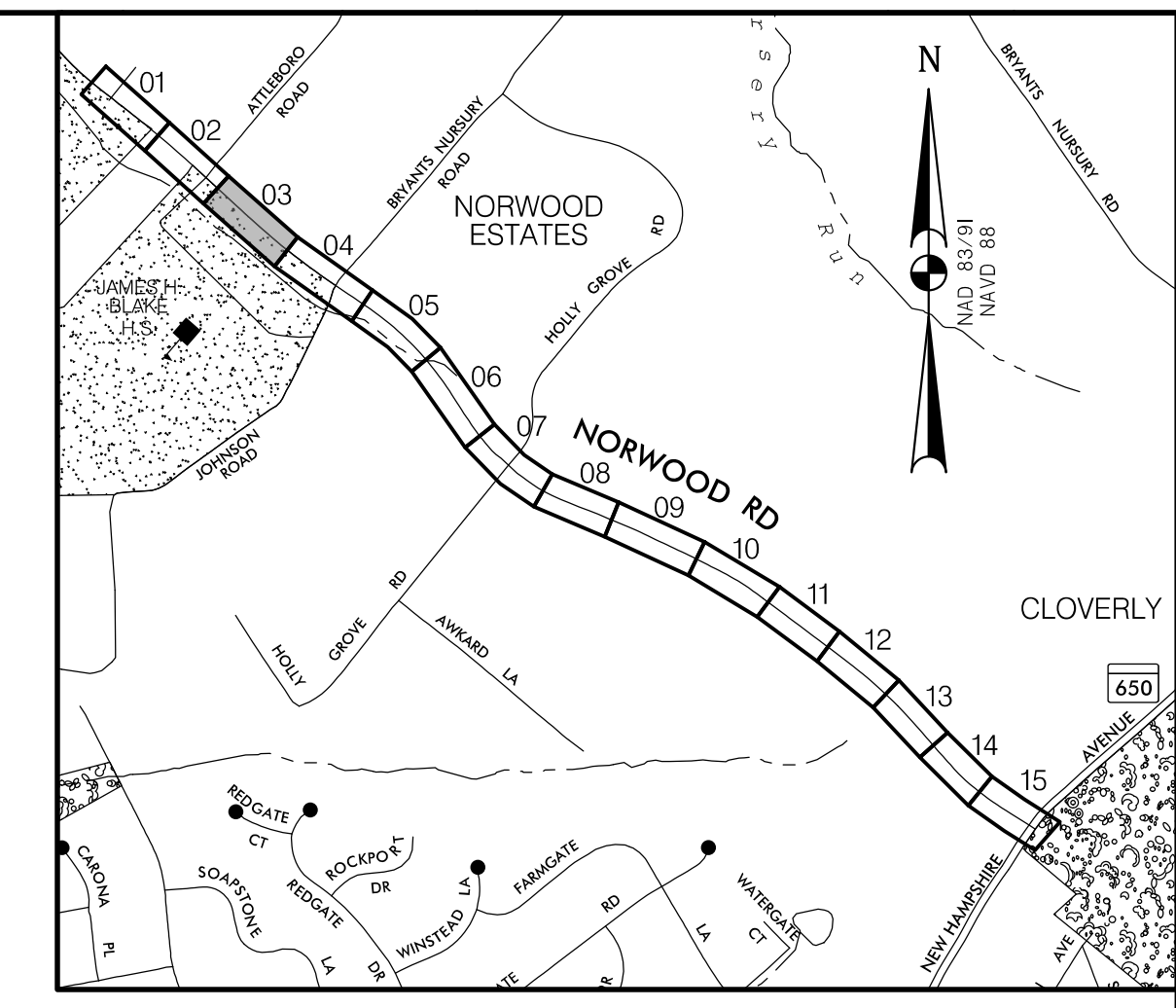
Chief, Division of Engineering Services \_\_\_\_\_ DATE \_\_\_\_\_

DESIGNED BY: D.M.J. DRAWN BY: D.M.J. CHECKED BY: D.M.J.

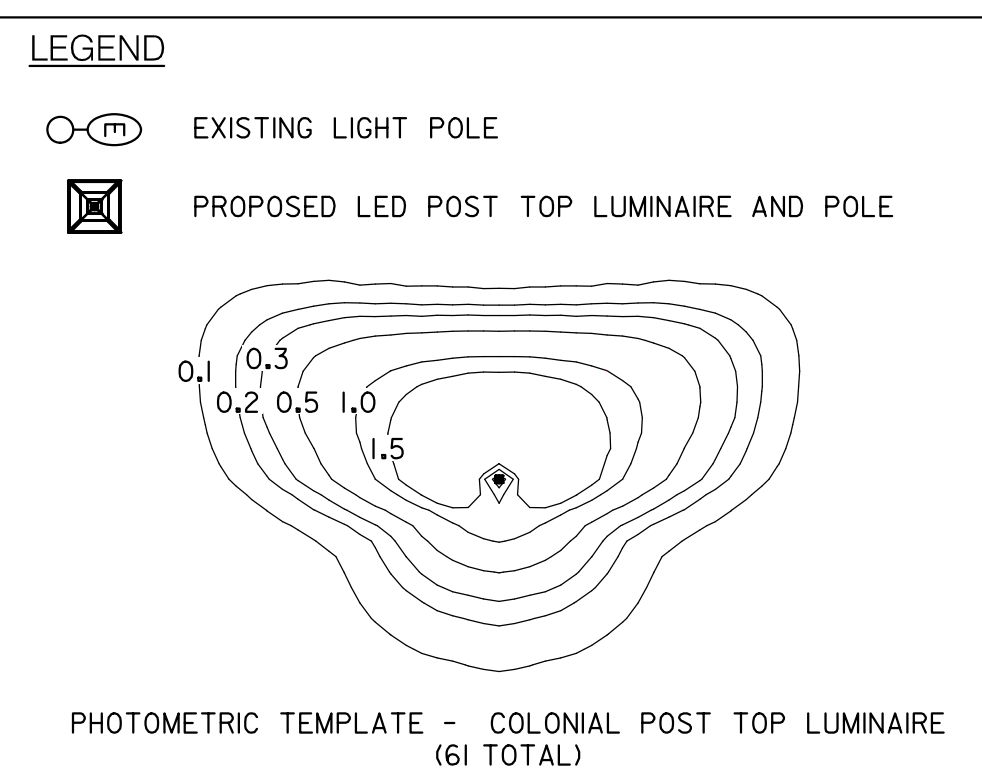
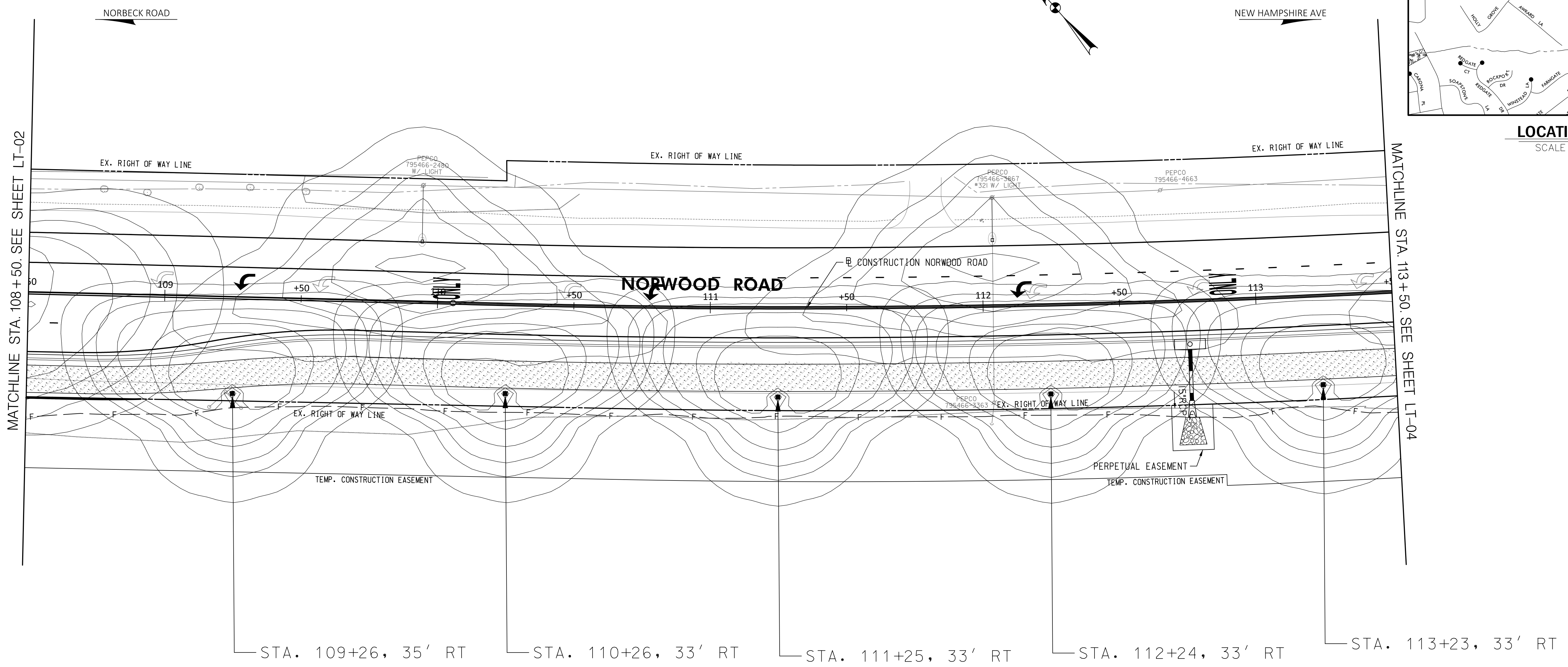
**PLAN SHEET LT-02**  
**LIGHTING PLAN**  
**NORWOOD ROAD**  
**SHARED USE PATH**  
**STA. 104+25 TO STA. 108+50**

SCALE: 1"=20' DATE: JAN, 2024

PROJECT NO.: C.I.P. # PENDING SHEET NO. 109 OF 133



**LOCATION MAP**  
SCALE 1"=1000'



**30% SUBMITTAL**

PROFESSIONAL CERTIFICATION SEAL

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LICENSE NO.: 25173  
EXP. DATE: 06 / 21 / 2025

NO.	REVISION	DATE	BY

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

RECOMMENDED FOR APPROVAL

Chief, Design Section \_\_\_\_\_ DATE \_\_\_\_\_  
APPROVED

Chief, Division of Engineering Services \_\_\_\_\_ DATE \_\_\_\_\_

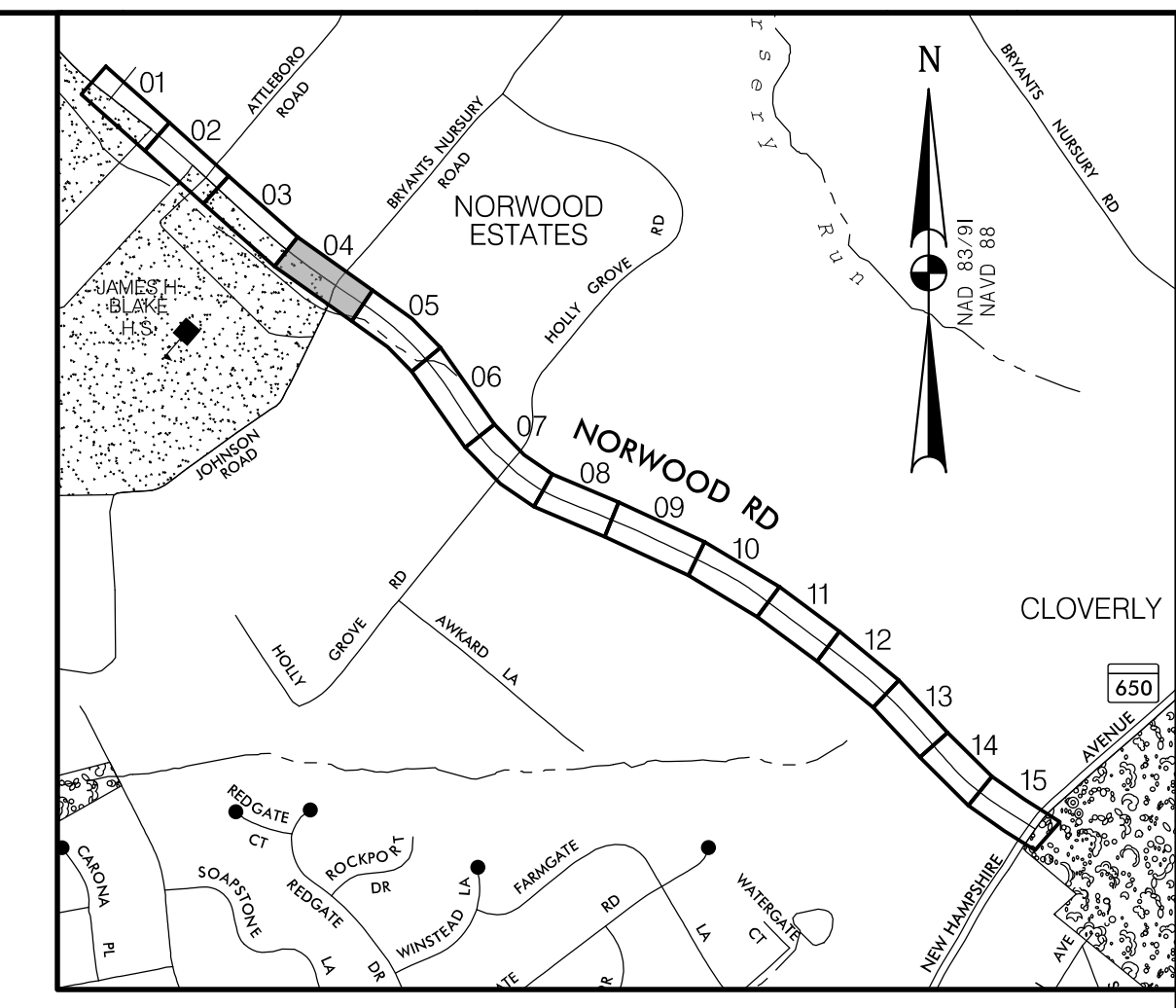
DESIGNED BY: D.M.J. DRAWN BY: D.M.J. CHECKED BY: J.L.R.

**PLAN SHEET LT-03  
LIGHTING PLAN  
NORWOOD ROAD  
SHARED USE PATH  
STA. 108+50 TO STA. 113+50**

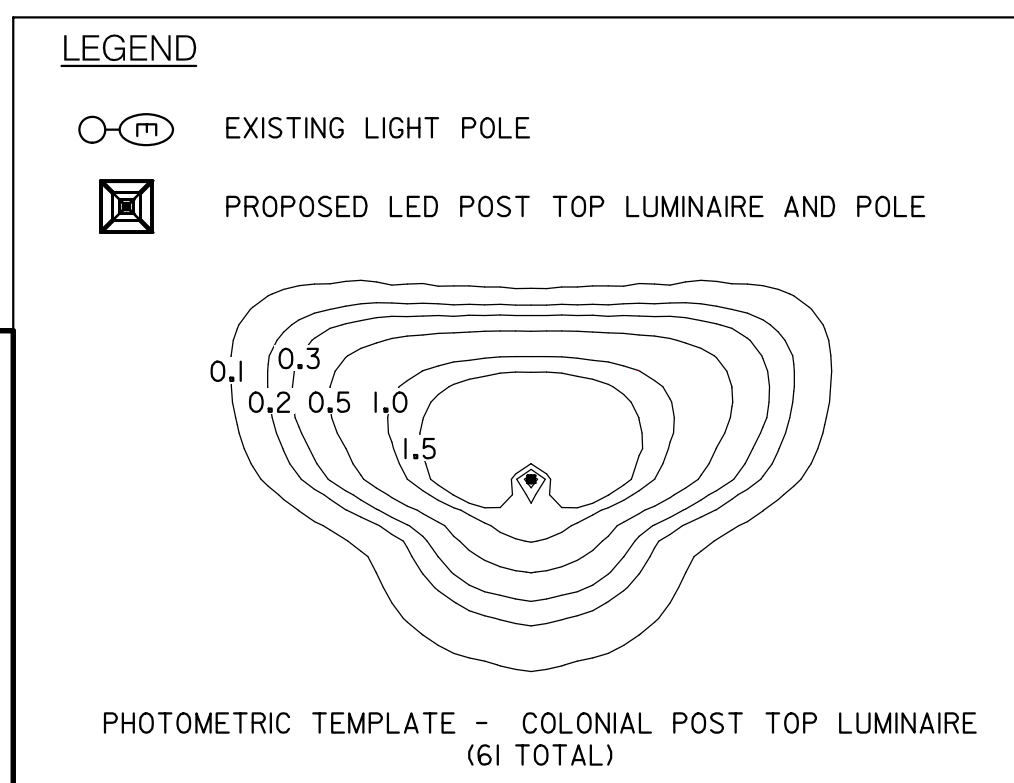
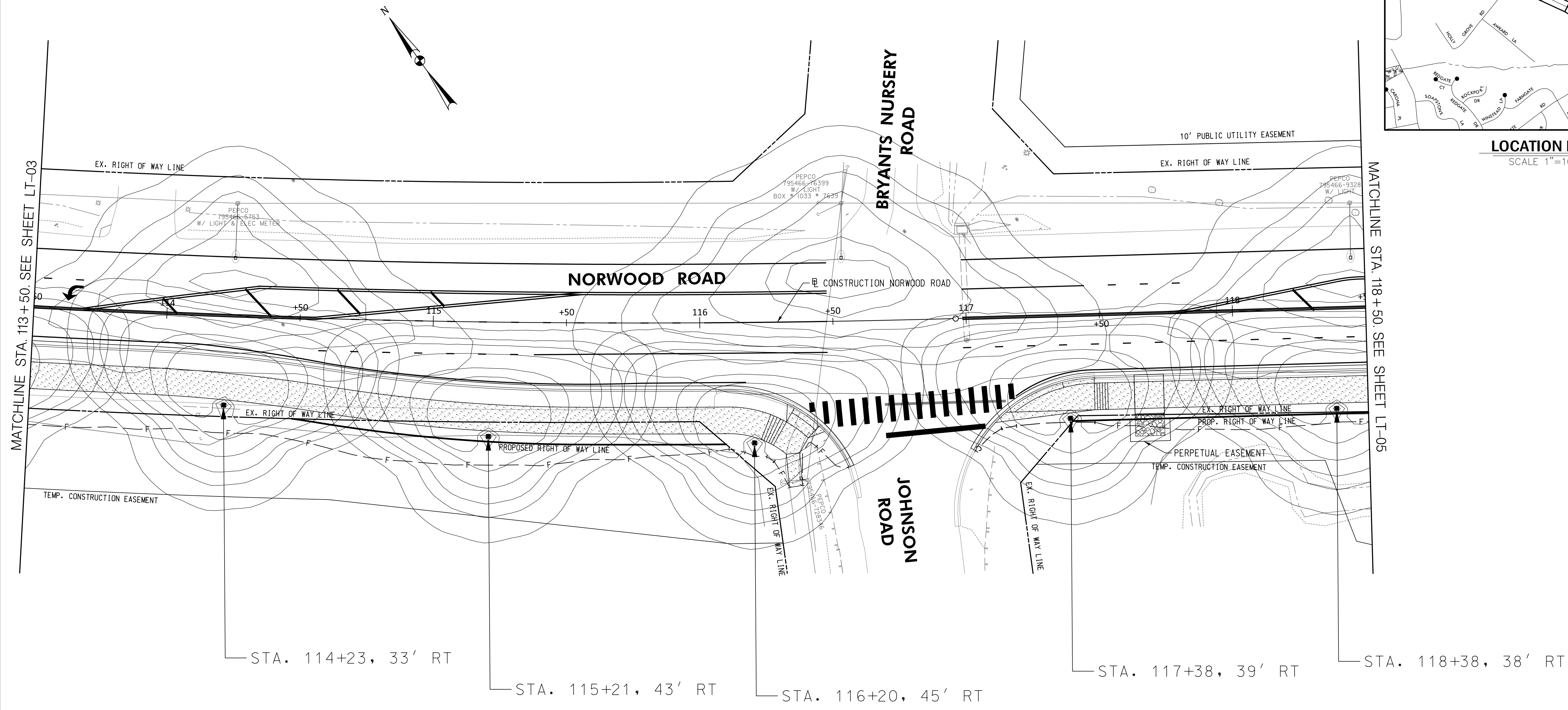
SCALE: 1"=20' DATE: JAN, 2024

PROJECT NO.: C.I.P. # PENDING SHEET NO. 110 OF 133

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**LOCATION MAP**  
SCALE 1"=1000'



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Chief, Division of Engineering Services \_\_\_\_\_ DATE \_\_\_\_\_

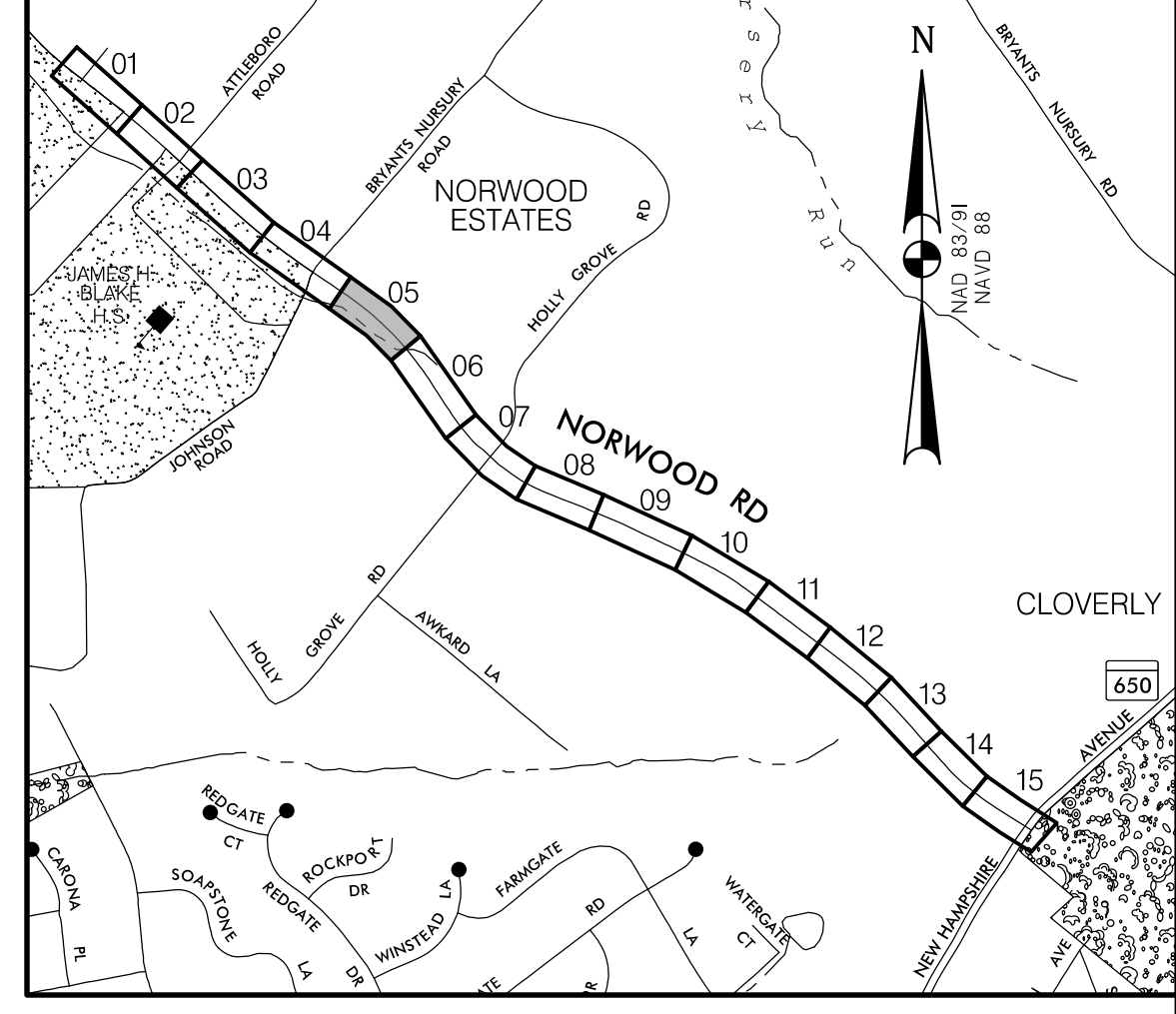
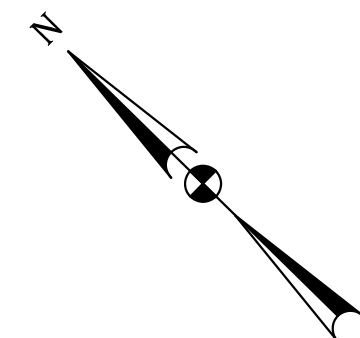
DESIGNED BY: D.M.J. DRAWN BY: D.M.J. CHECKED BY: J.L.R.

**PLAN SHEET LT-04**  
**LIGHTING PLAN**  
**NORWOOD ROAD**  
**SHARED USE PATH**  
**STA. 113+50 TO STA. 118+50**

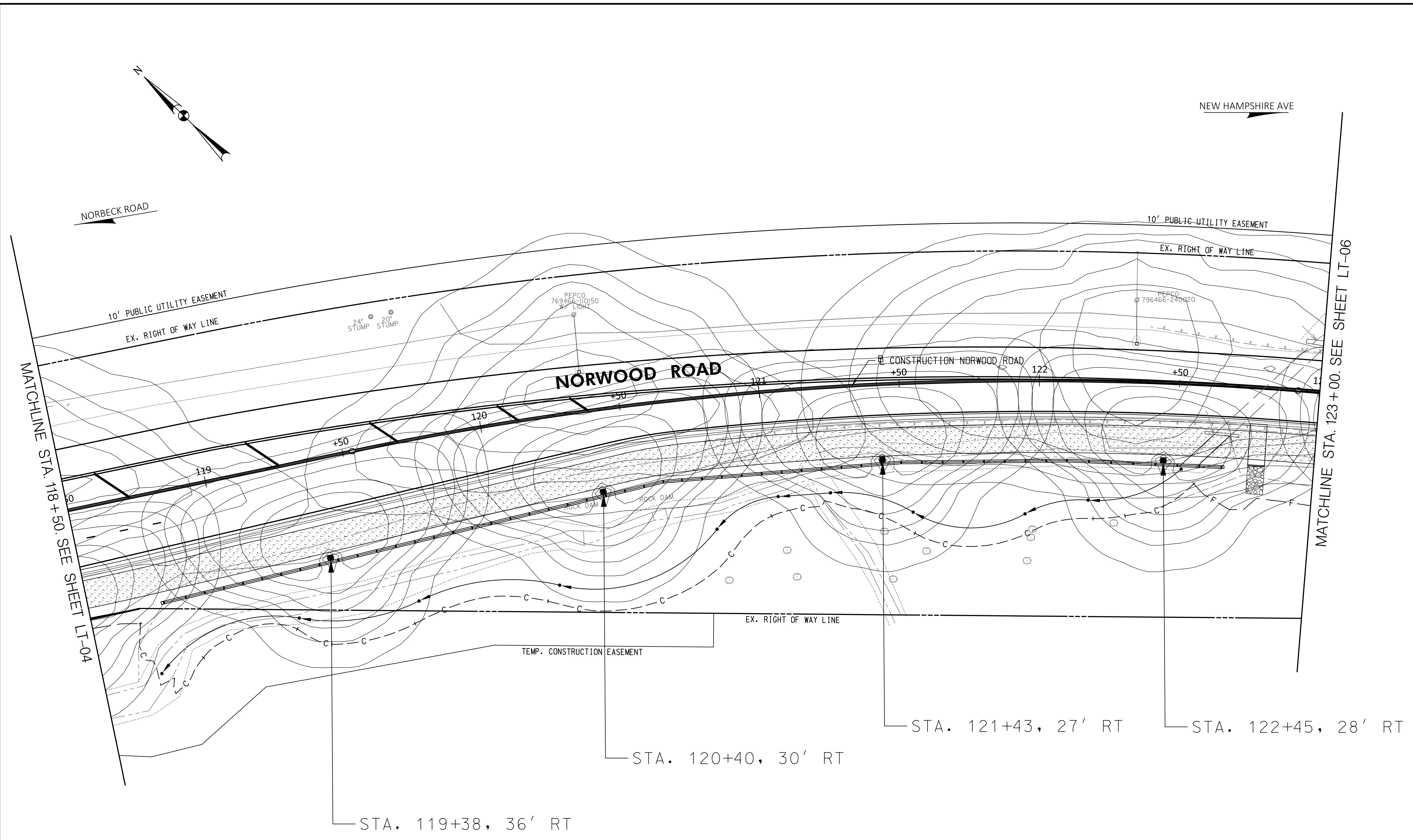
SCALE: 1"=20' DATE: JAN, 2024

PROJECT NO.: C.I.P. # PENDING SHEET NO. 111 OF 133

BY: gcrtswell



**LOCATION MAP**  
SCALE 1"=1000'



**LEGEND**

- EXISTING LIGHT POLE
- PROPOSED LED POST TOP LUMINAIRE AND POLE

PHOTOMETRIC TEMPLATE - COLONIAL POST TOP LUMINAIRE  
(61 TOTAL)

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**SEAL**

DATE:

**30% SUBMITTAL**

NO.	REVISION	DATE	BY

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

RECOMMENDED FOR APPROVAL

Chief, Design Section \_\_\_\_\_ DATE \_\_\_\_\_  
APPROVED

Chief, Division of Engineering Services \_\_\_\_\_ DATE \_\_\_\_\_

DESIGNED BY: D.M.J. DRAWN BY: D.M.J. CHECKED BY: J.L.R.

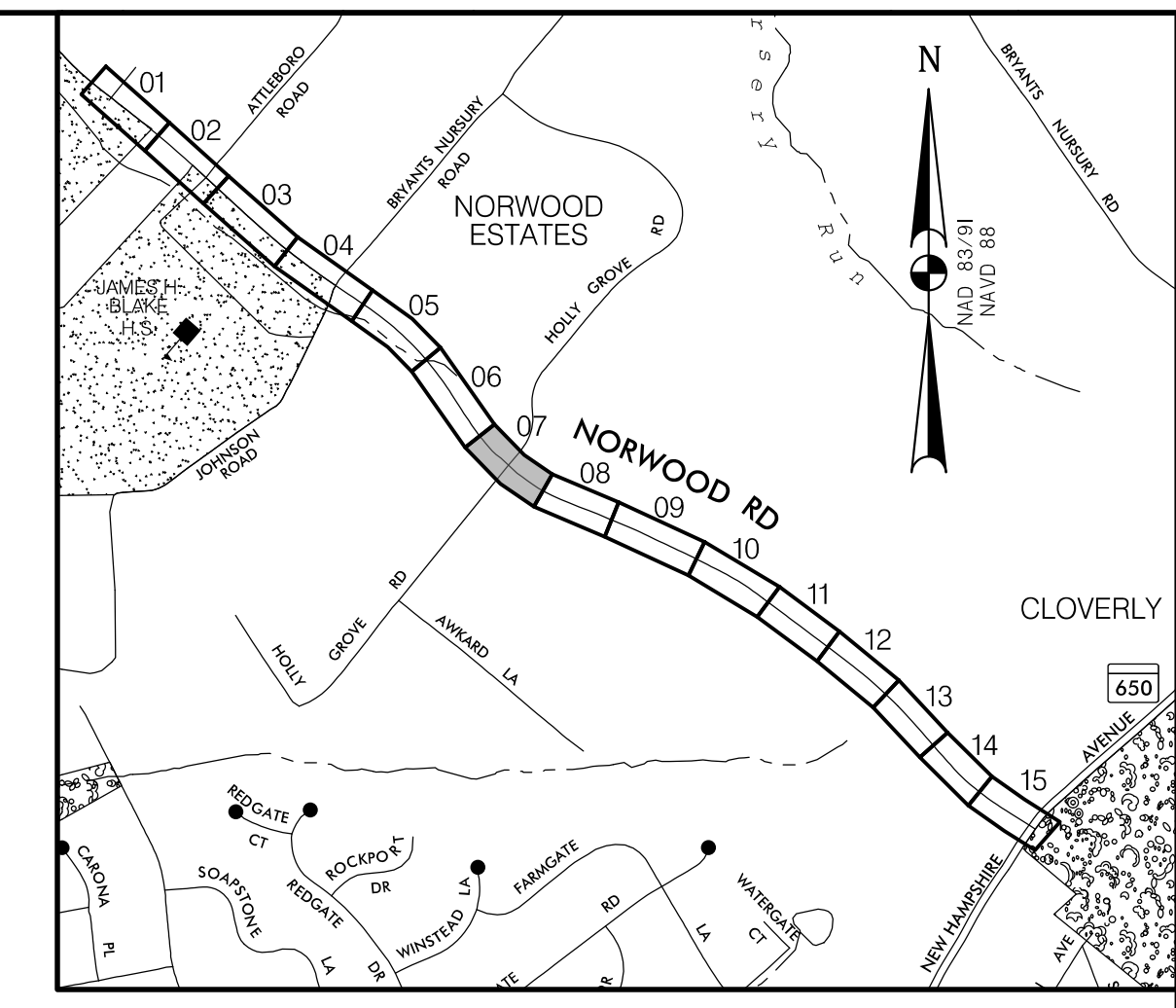
**PLAN SHEET LT-05**  
**LIGHTING PLAN**  
**NORWOOD ROAD**  
**SHARED USE PATH**  
**STA. 118+50 TO STA. 123+00**

SCALE: 1"=20' DATE: JAN, 2024

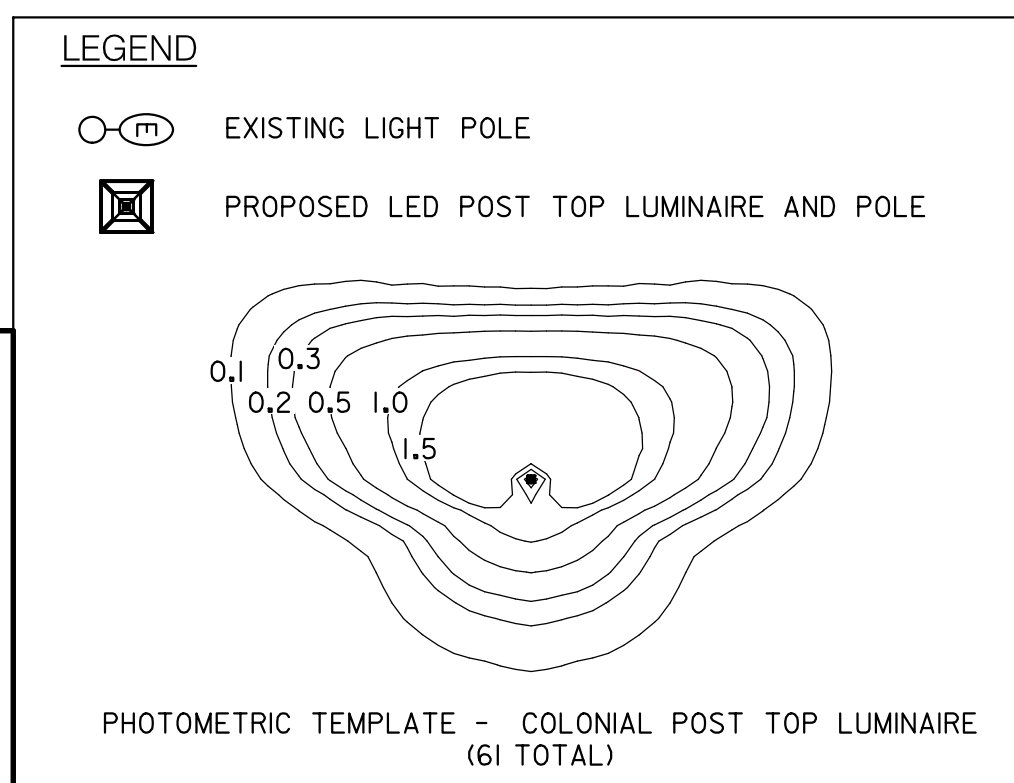
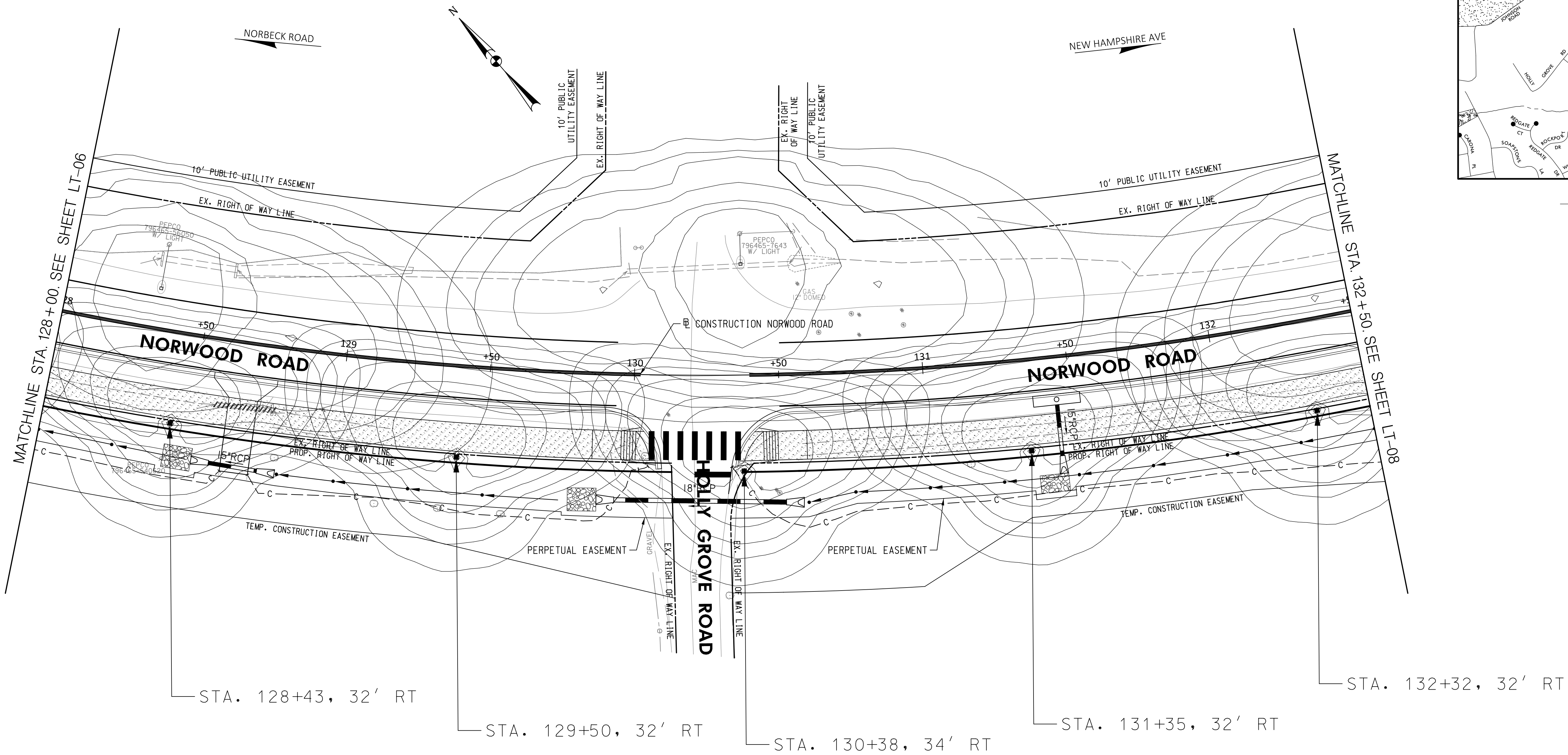
PROJECT NO.: C.I.P. # PENDING SHEET NO. 112 OF 133

BY: gcrtsweil-





**LOCATION MAP**  
SCALE 1"=1000'



**30% SUBMITTAL**

PROFESSIONAL CERTIFICATION

I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND. JOHN L. RECTANUS

LICENSE NO.: 25173

EXP. DATE: 06/21/2025

SEAL

DATE:

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

RECOMMENDED FOR APPROVAL

Chief, Design Section DATE

APPROVED

Chief, Division of Engineering Services DATE

DESIGNED BY: D.M.J. DRAWN BY: D.M.J. CHECKED BY: J.L.R.

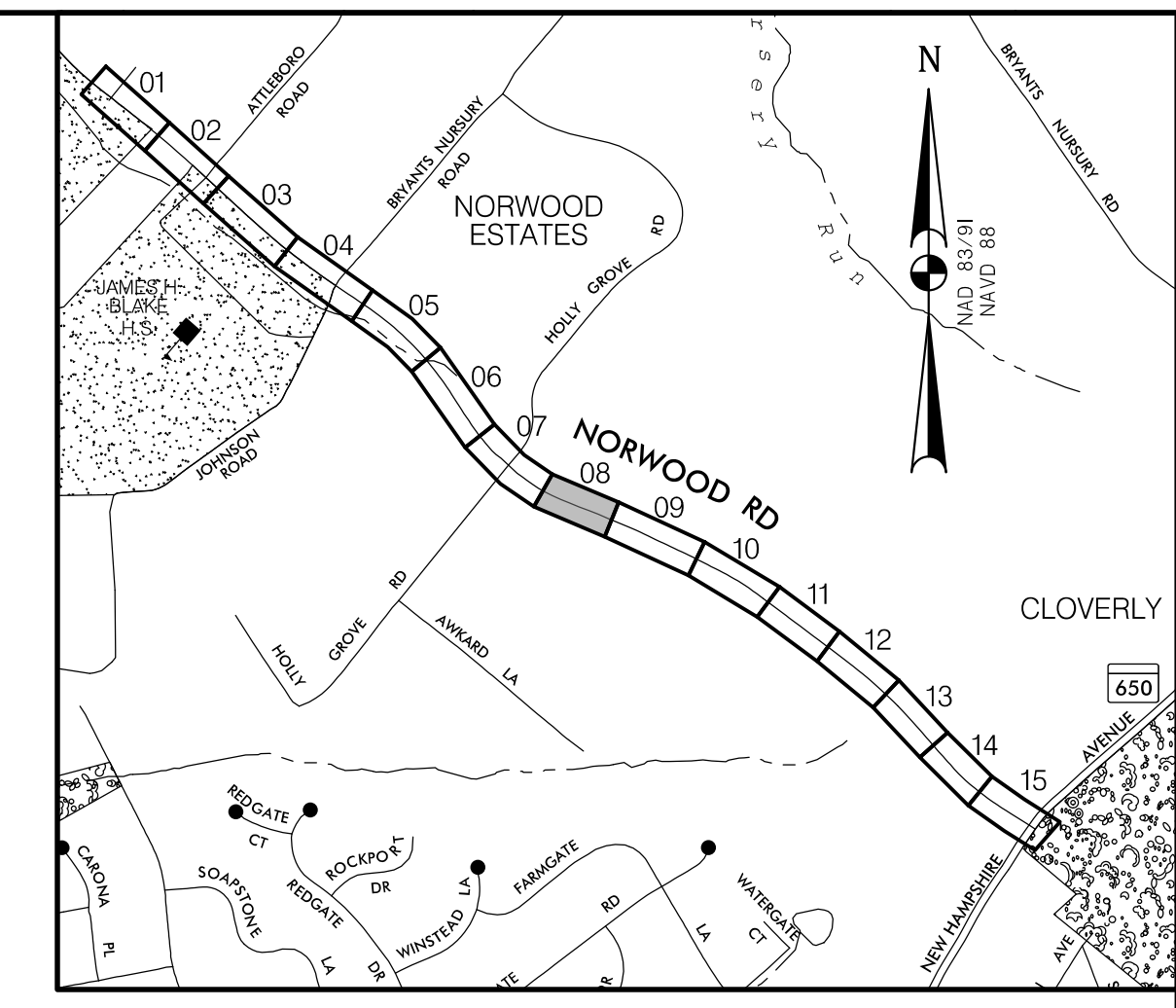
**PLAN SHEET LT-07**  
**LIGHTING PLAN**  
**NORWOOD ROAD**  
**SHARED USE PATH**  
**STA. 128+00 TO STA. 132+50**

SCALE: 1"=20' DATE: JAN, 2024

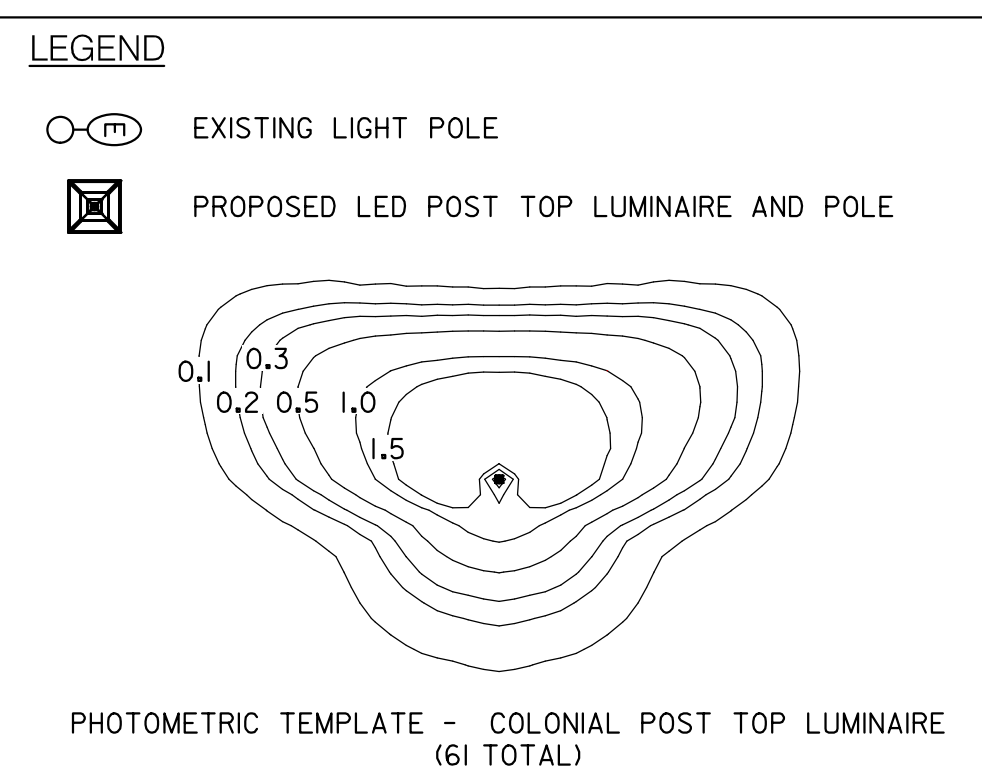
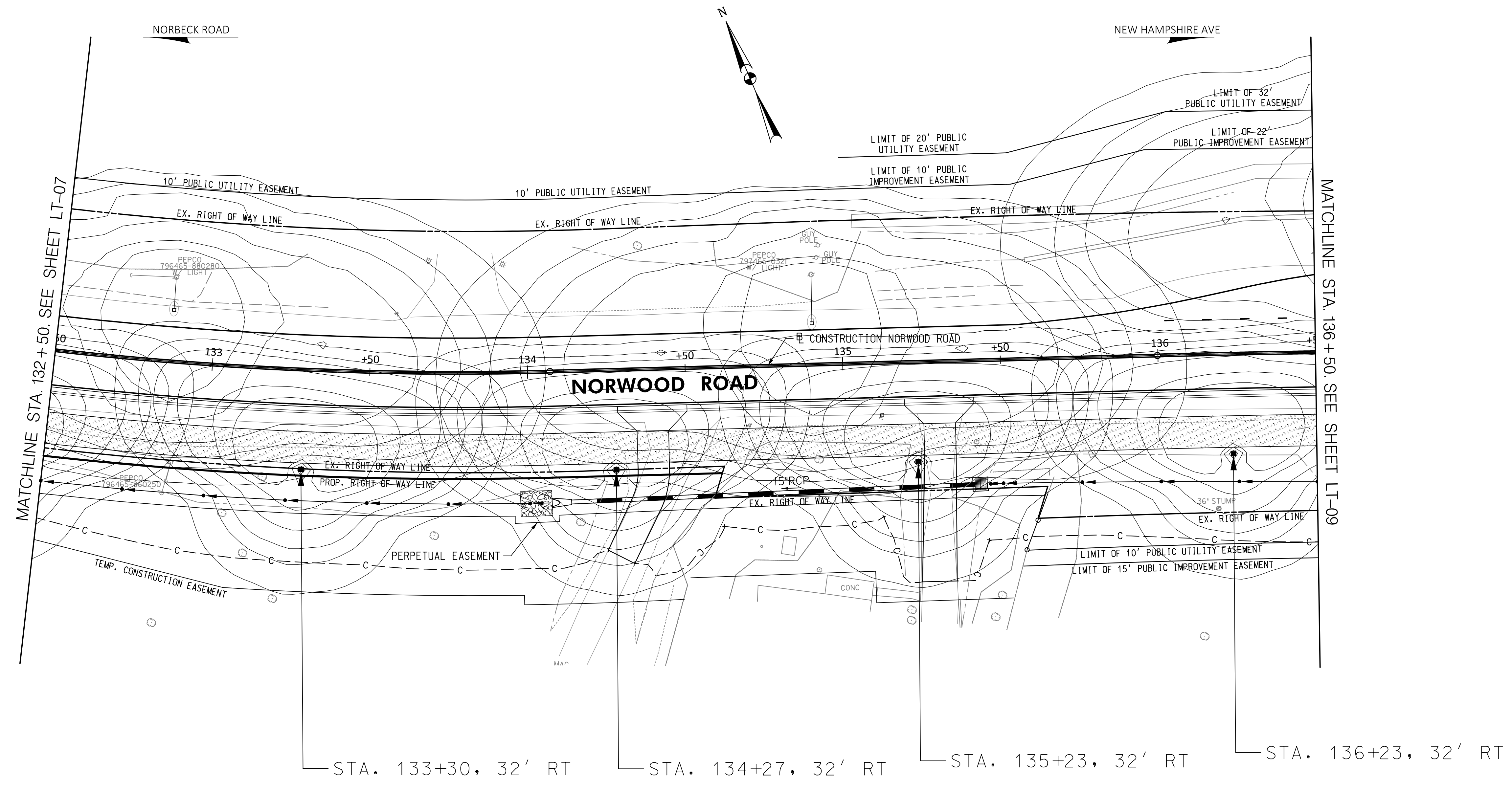
PROJECT NO.: C.I.P. # PENDING SHEET NO. 114 OF 133

**WALLACE MONTGOMERY**  
ENGINEERS-PLANNERS-SURVEYORS-CONSTRUCTION MANAGERS  
10150 York Road, Suite 200  
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410.494.9093 Tel / 410.667.0925 Fax  
www.WallaceMontgomery.com





**LOCATION MAP**  
SCALE 1"=1000'



**30% SUBMITTAL**

PROFESSIONAL CERTIFICATION

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LICENSE NO.: 25173

EXP. DATE: 06/21/2025

SEAL

DATE:

NO.	REVISION	DATE	BY

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

RECOMMENDED FOR APPROVAL

Chief, Design Section DATE

APPROVED

Chief, Division of Engineering Services DATE

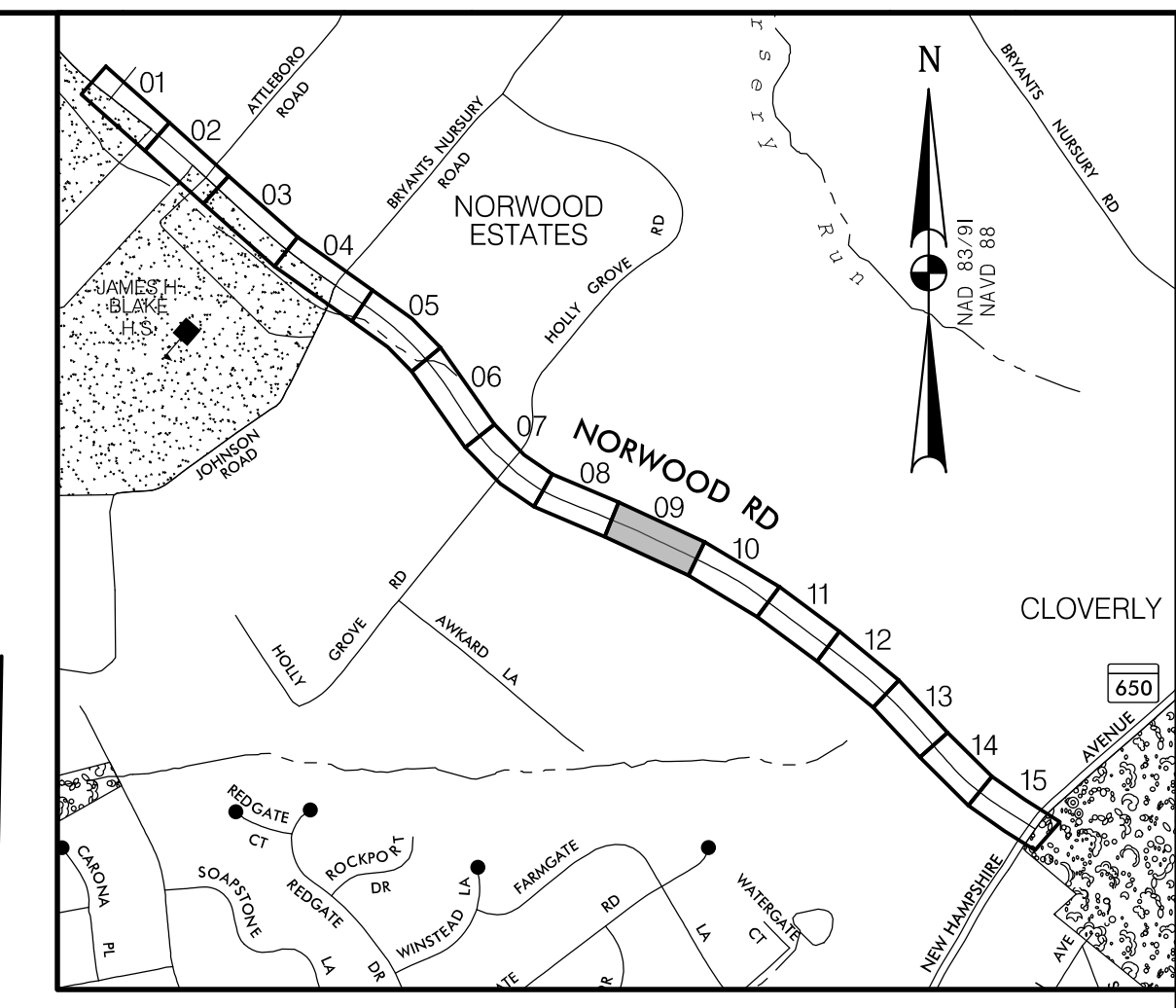
DESIGNED BY: D.M.J. DRAWN BY: D.M.J. CHECKED BY: J.L.R.

**PLAN SHEET LT-08**  
**LIGHTING PLAN**  
**NORWOOD ROAD**  
**SHARED USE PATH**  
**STA. 132+50 TO STA. 136+50**

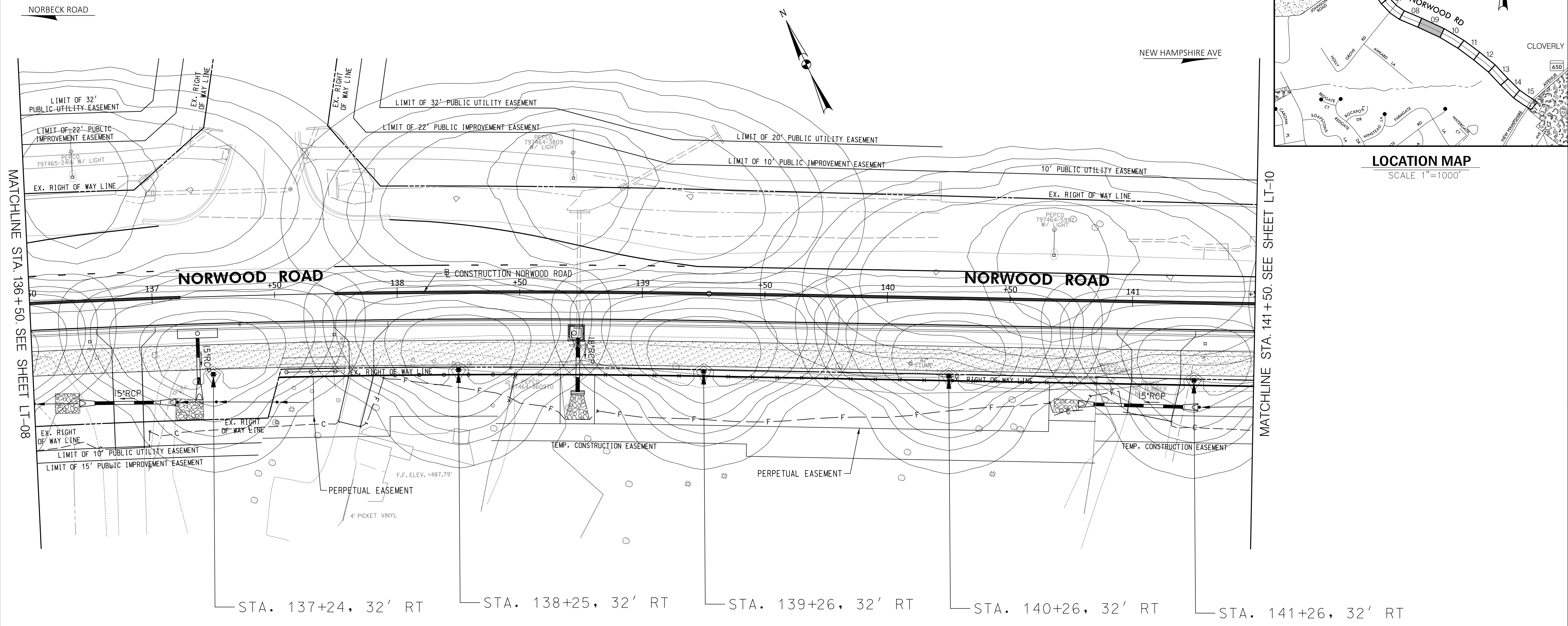
SCALE: 1"=20' DATE: JAN, 2024

PROJECT NO.: C.I.P. # PENDING SHEET NO. 115 OF 133

**WALLACE MONTGOMERY**  
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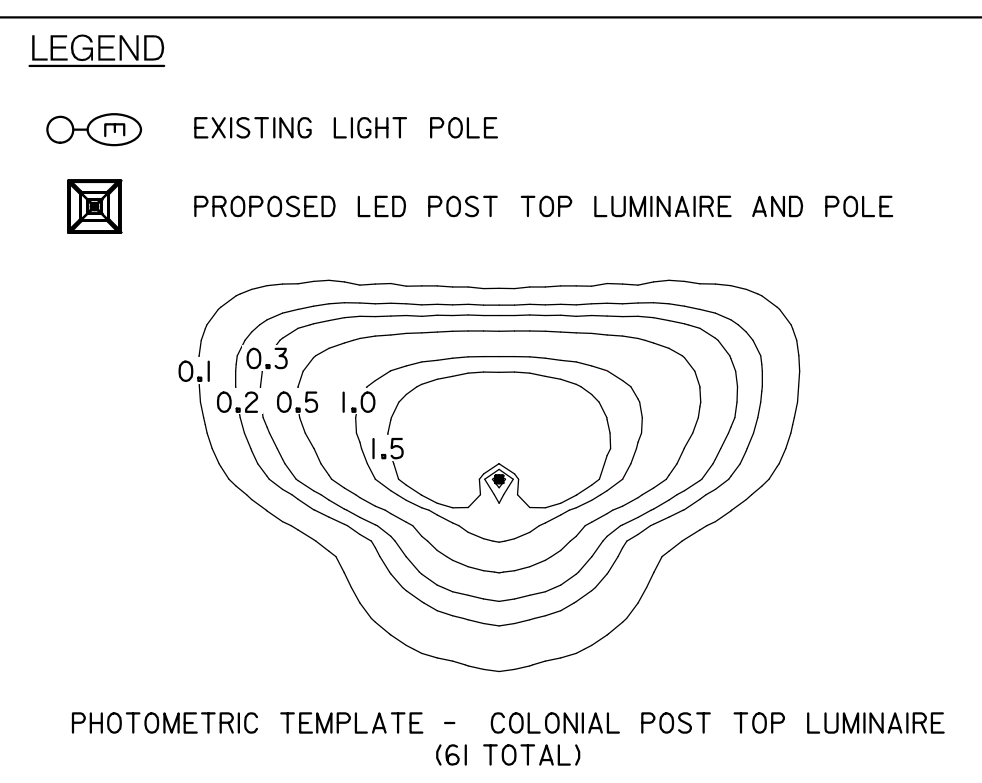


**LOCATION MAP**  
SCALE 1"=1000'



MATCHLINE STA. 136+50. SEE SHEET LT-08

MATCHLINE STA. 141+50. SEE SHEET LT-10



**30% SUBMITTAL**

PROFESSIONAL CERTIFICATION	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. JOHN L. RECTANUS	
LICENSE NO.: 25173	
EXP. DATE: 06/21/2025	
DATE:	

NO.	REVISION	DATE	BY

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

RECOMMENDED FOR APPROVAL

Chief, Design Section \_\_\_\_\_ DATE \_\_\_\_\_  
APPROVED

Chief, Division of Engineering Services \_\_\_\_\_ DATE \_\_\_\_\_

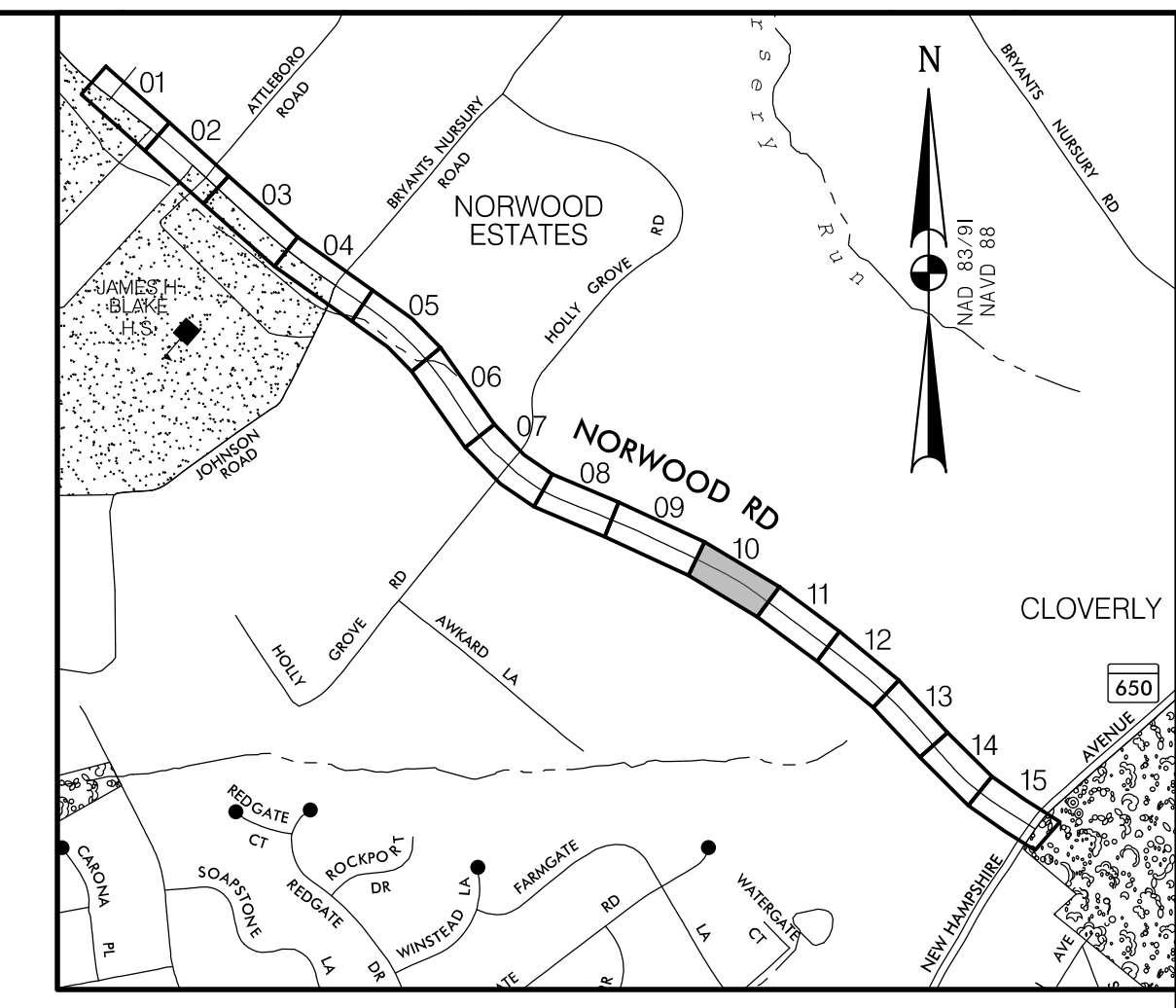
DESIGNED BY: D.M.J. DRAWN BY: D.M.J. CHECKED BY: J.L.R.

**PLAN SHEET LT-09  
LIGHTING PLAN  
NORWOOD ROAD  
SHARED USE PATH  
STA. 136+50 TO STA. 141+50**

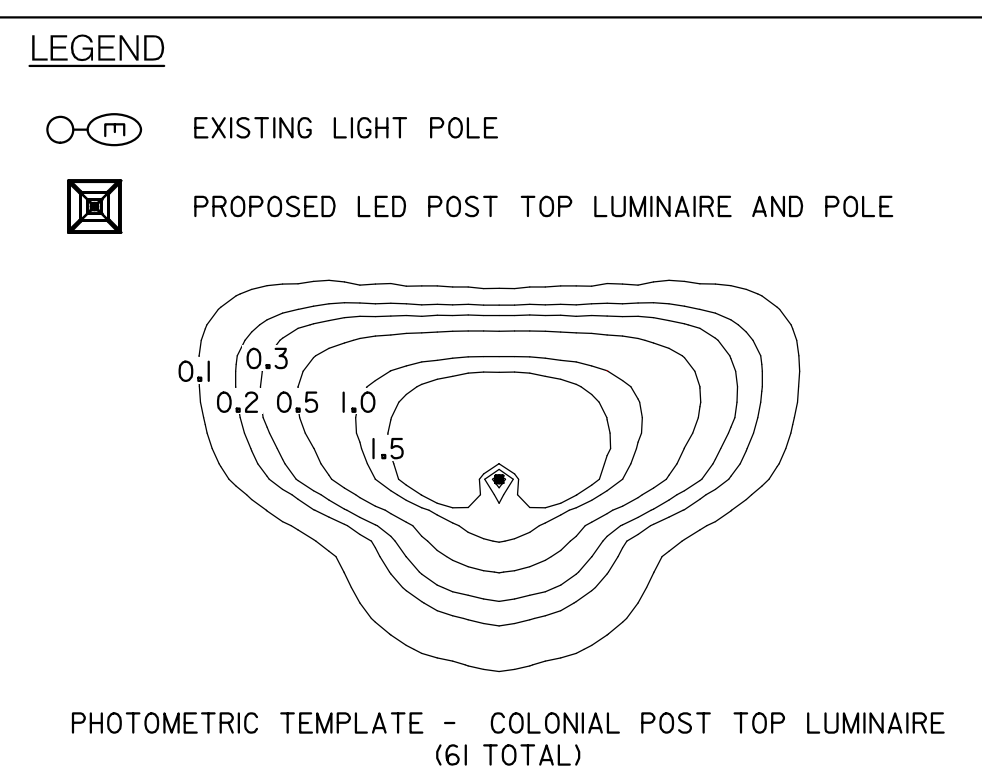
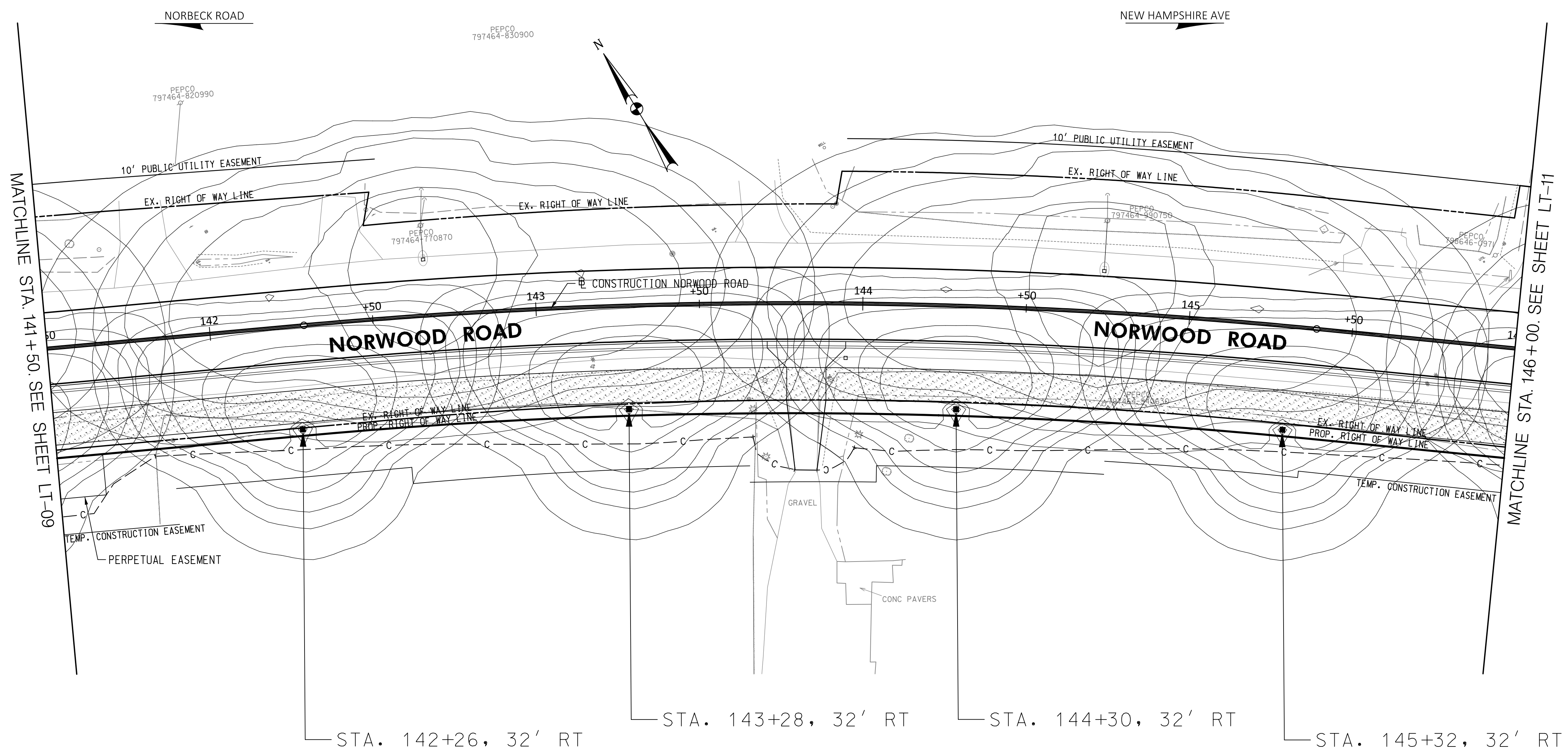
SCALE: 1"=20' DATE: JAN 2024

PROJECT NO.: C.I.P. # PENDING SHEET NO. 116 OF 133

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**LOCATION MAP**  
SCALE 1"=1000'



**30% SUBMITTAL**

PROFESSIONAL CERTIFICATION

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LICENSE NO.: 25173

EXP. DATE: 06/21/2025

SEAL

DATE:

NO.	REVISION	DATE	BY

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

RECOMMENDED FOR APPROVAL

Chief, Design Section DATE

APPROVED

Chief, Division of Engineering Services DATE

DESIGNED BY: D.M.J. DRAWN BY: D.M.J. CHECKED BY: J.L.R.

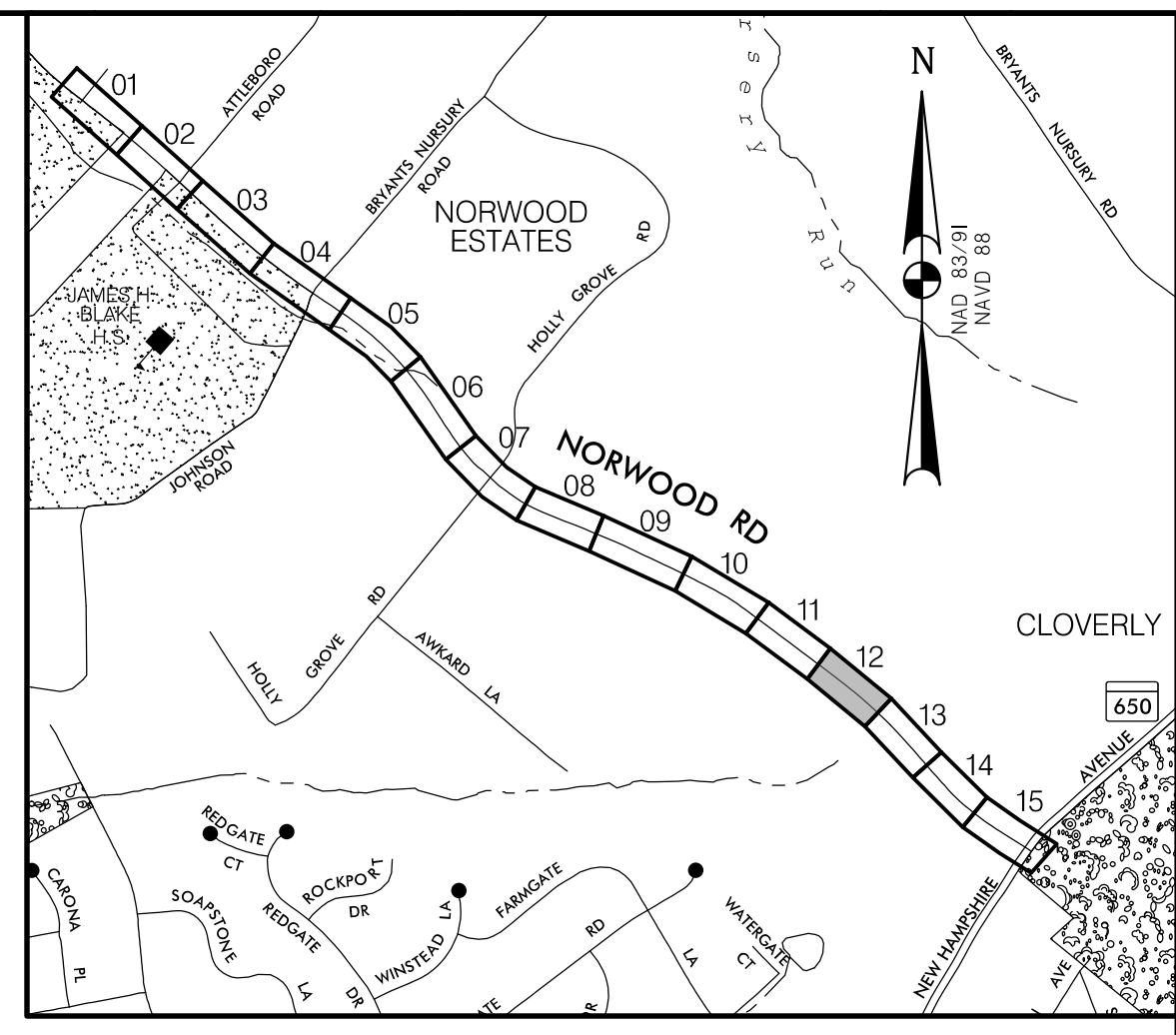
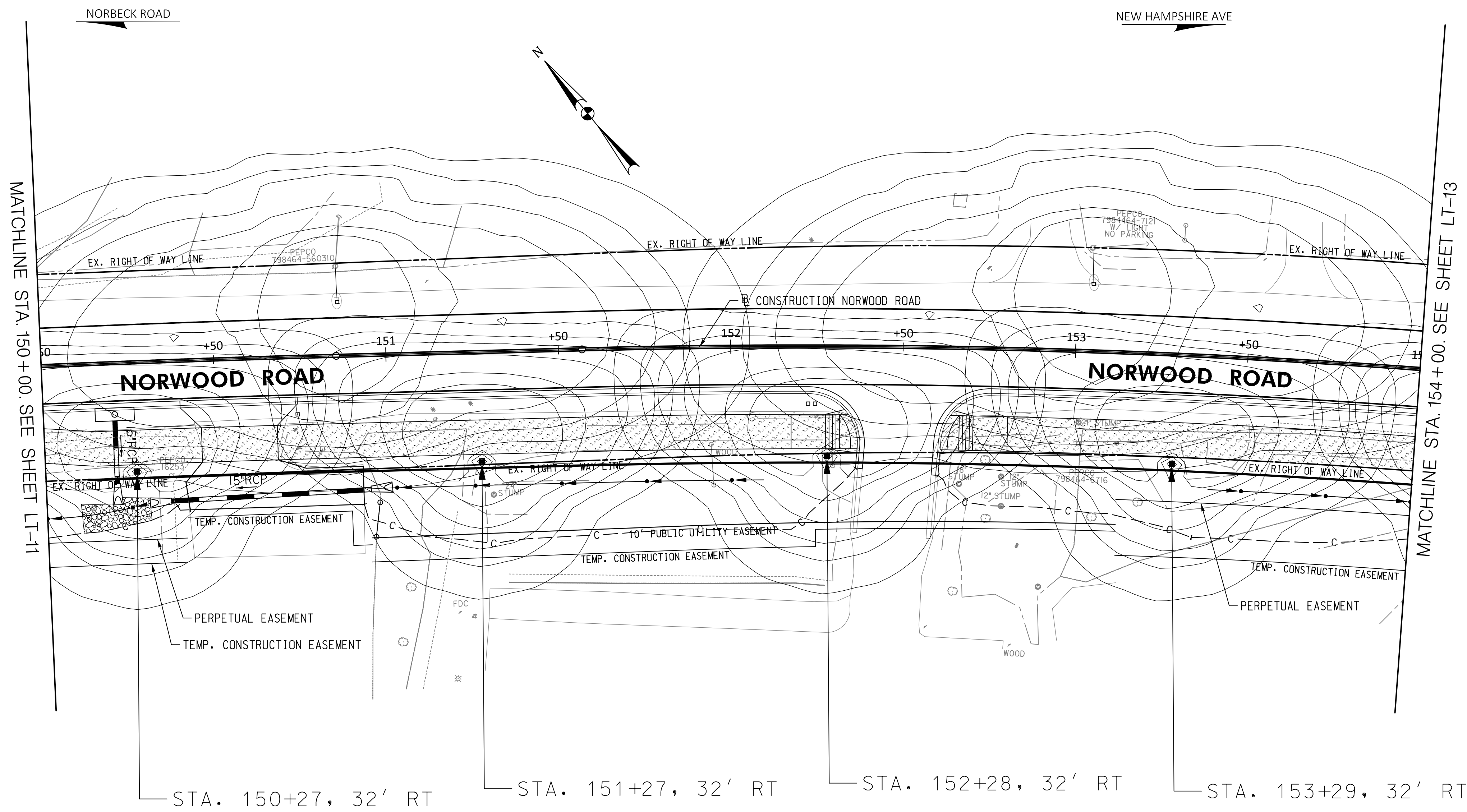
**PLAN SHEET LT-10  
LIGHTING PLAN  
NORWOOD ROAD  
SHARED USE PATH  
STA. 141+50 TO STA. 146+00**

SCALE: 1"=20' DATE: JAN, 2024

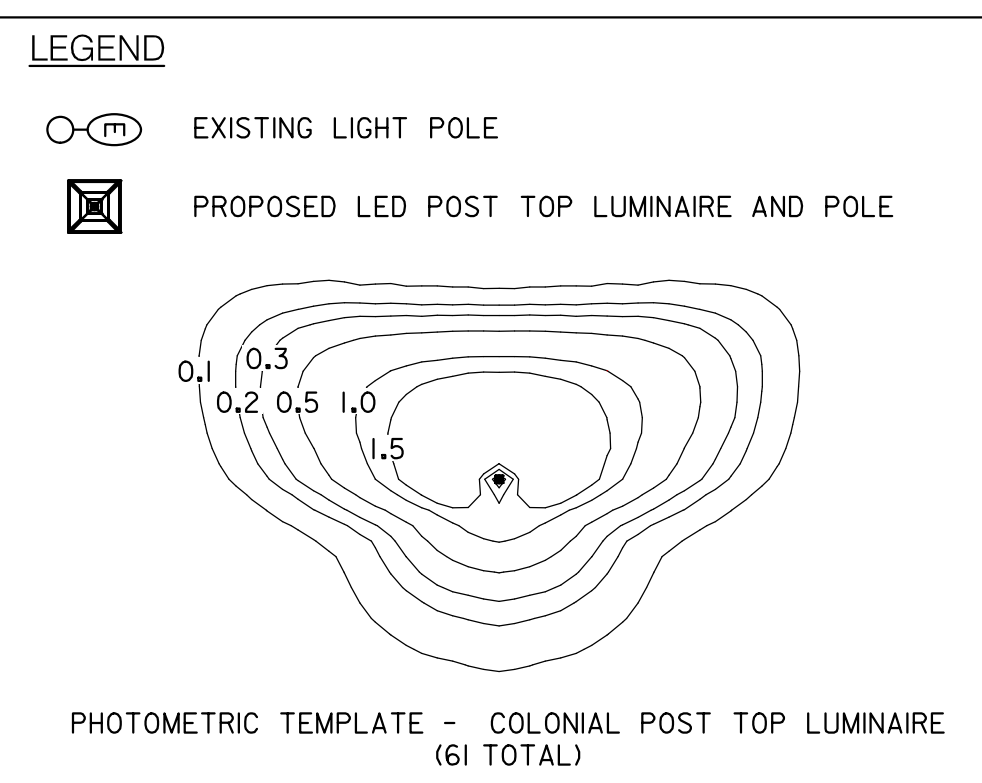
PROJECT NO.: C.I.P. # PENDING SHEET NO. 117 OF 133

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**LOCATION MAP**  
SCALE 1"=1000'



**30% SUBMITTAL**

PROFESSIONAL CERTIFICATION

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LICENSE NO.: 25173

EXP. DATE: 06/21/2025

SEAL

DATE:

NO.	REVISION	DATE	BY

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

RECOMMENDED FOR APPROVAL

Chief, Design Section DATE

APPROVED

Chief, Division of Engineering Services DATE

DESIGNED BY: D.M.J. DRAWN BY: D.M.J. CHECKED BY: D.M.J.

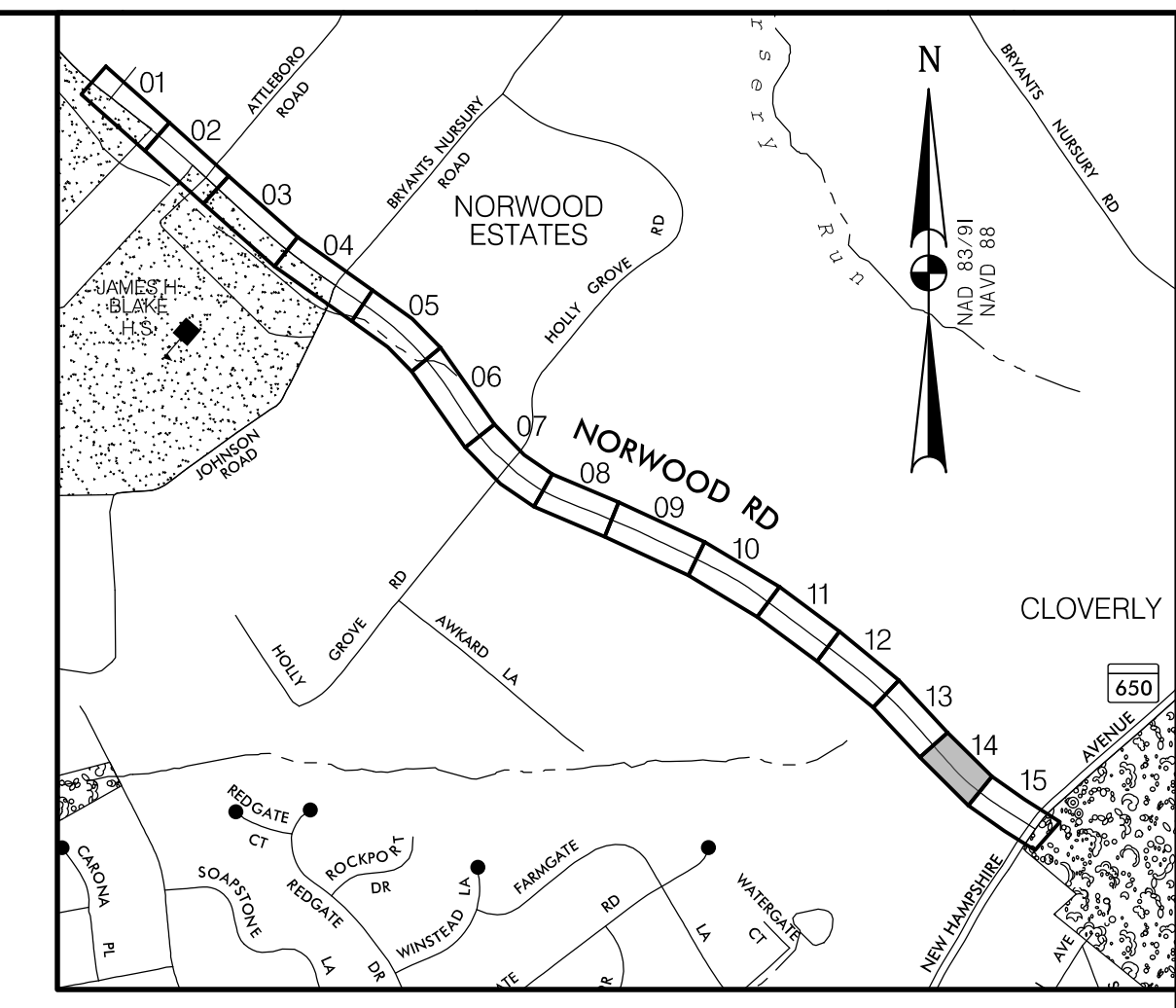
**PLAN SHEET LT-12  
LIGHTING PLAN  
NORWOOD ROAD  
SHARED USE PATH  
STA. 150+00 TO STA. 154+00**

SCALE: 1"=20' DATE: JAN, 2024

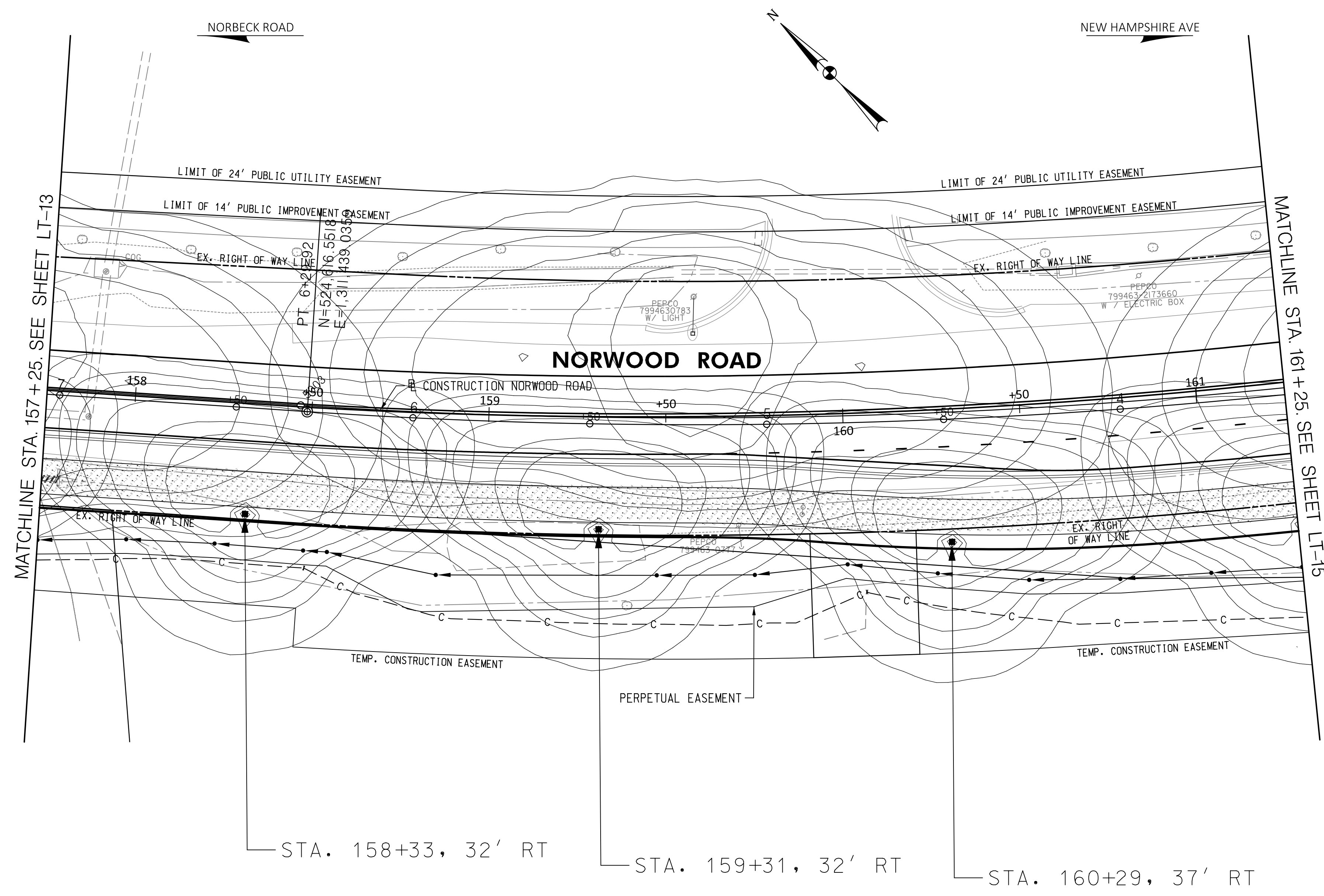
PROJECT NO.: C.I.P. # PENDING SHEET NO. 119 OF 133

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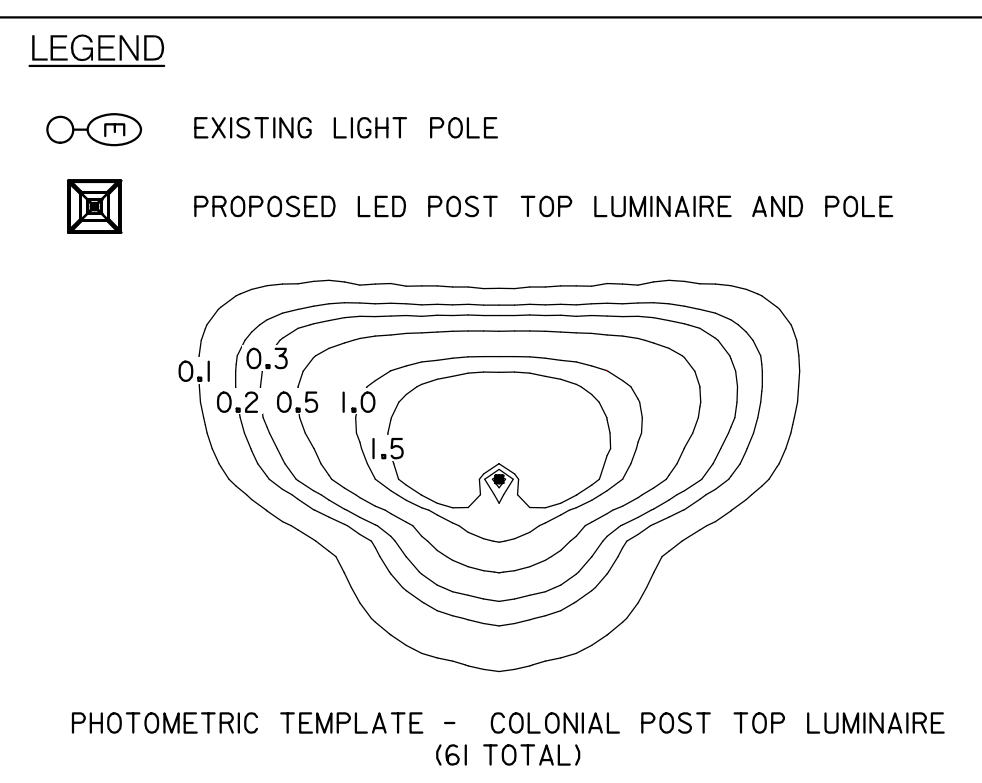


**LOCATION MAP**  
SCALE 1"=1000'



MATCHLINE STA. 157+25. SEE SHEET LT-13

MATCHLINE STA. 161+25. SEE SHEET LT-15



**30% SUBMITTAL**

PROFESSIONAL CERTIFICATION	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. JOHN L. RECTANUS LICENSE NO.: 25173 EXP. DATE: 06/21/2025	DATE:

NO.	REVISION	DATE	BY

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

RECOMMENDED FOR APPROVAL

Chief, Design Section \_\_\_\_\_ DATE \_\_\_\_\_  
APPROVED

Chief, Division of Engineering Services \_\_\_\_\_ DATE \_\_\_\_\_

DESIGNED BY: D.M.J. DRAWN BY: D.M.J. CHECKED BY: J.L.R.

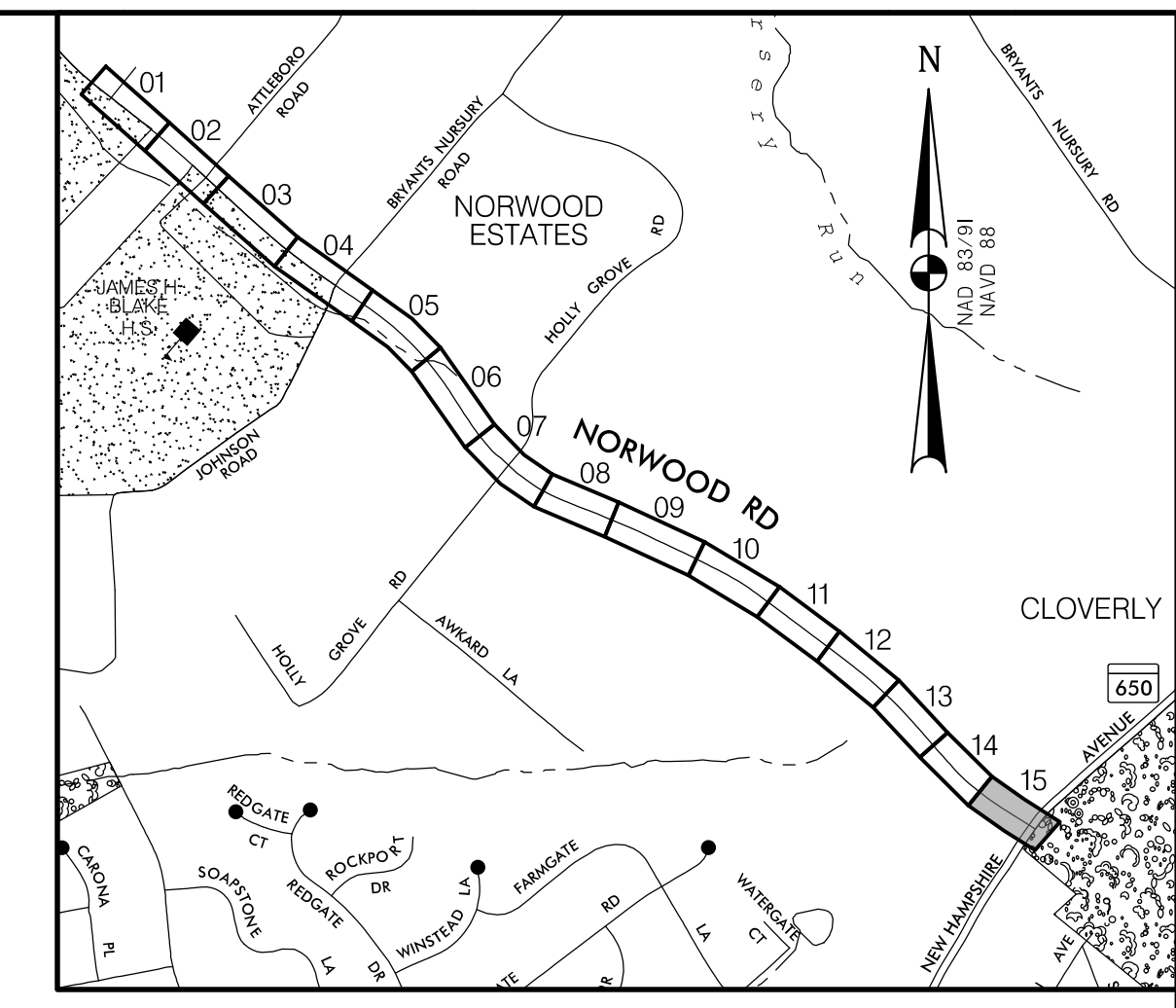
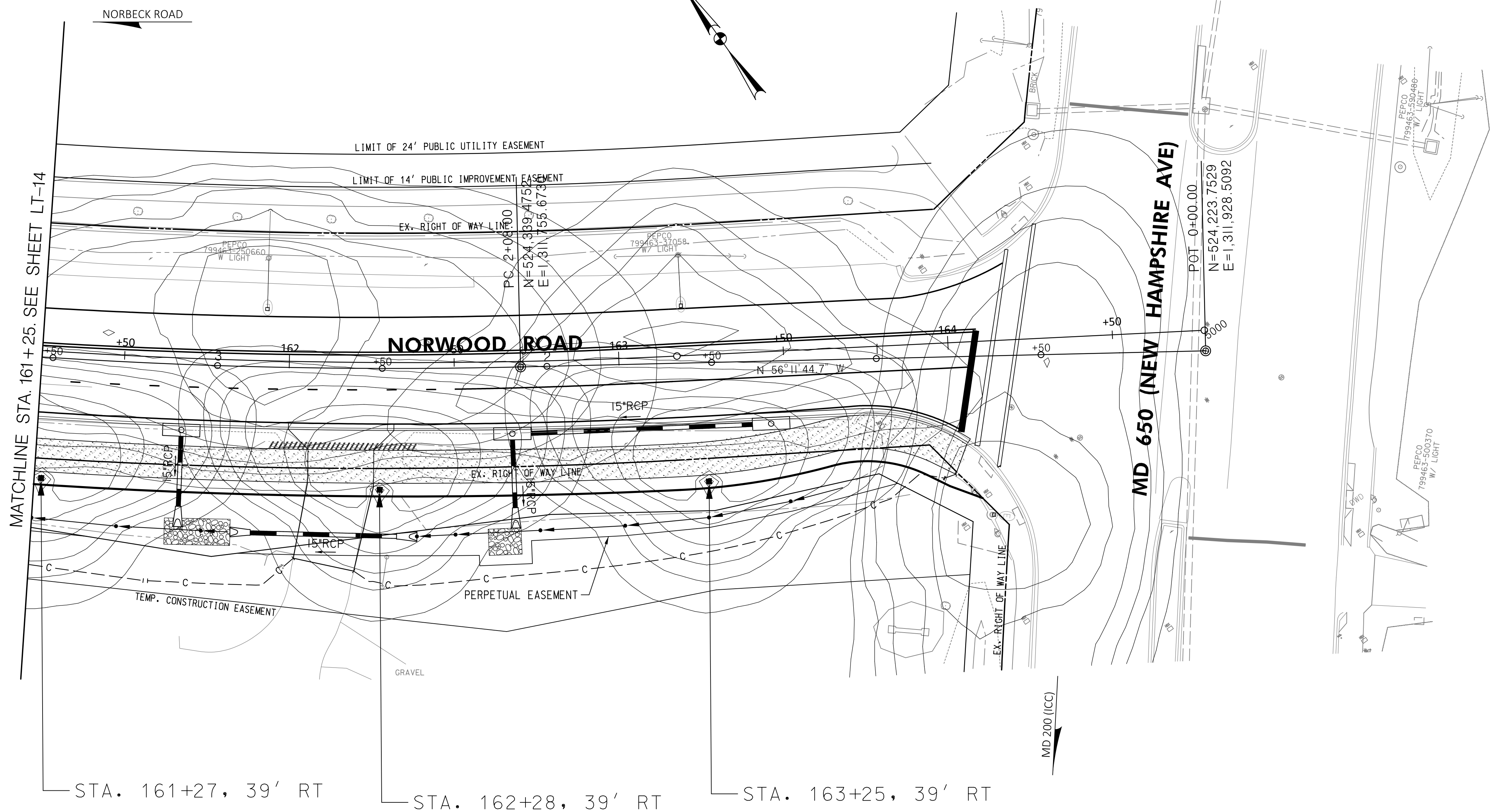
**PLAN SHEET LT-14  
LIGHTING PLAN  
NORWOOD ROAD  
SHARED USE PATH  
STA. 157+25 TO STA. 161+25**

SCALE : 1"=20' DATE : JAN, 2024

PROJECT NO.: C.I.P. # PENDING SHEET NO. 121 OF 133

**WALLACE MONTGOMERY**  
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10150 York Road, Suite 200  
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410.494.9093 Tel / 410.667.0925 Fax  
www.WallaceMontgomery.com A Limited Liability Partnership

BY: gcrtsjwell-



**LOCATION MAP**  
SCALE 1"=1000'

**LEGEND**

- EXISTING LIGHT POLE
- PROPOSED LED POST TOP LUMINAIRE AND POLE

PHOTOMETRIC TEMPLATE - COLONIAL POST TOP LUMINAIRE  
(61 TOTAL)

PROFESSIONAL CERTIFICATION

I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND. JOHN L. RECTANUS

LICENSE NO.: 25173

EXP. DATE: 06/21/2025

SEAL

DATE:

**30% SUBMITTAL**

NO.	REVISION	DATE	BY

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

RECOMMENDED FOR APPROVAL

Chief, Design Section \_\_\_\_\_ DATE \_\_\_\_\_  
APPROVED

Chief, Division of Engineering Services \_\_\_\_\_ DATE \_\_\_\_\_

DESIGNED BY: D.M.J. DRAWN BY: D.M.J. CHECKED BY: J.L.R.

**PLAN SHEET LT-15  
LIGHTING PLAN  
NORWOOD ROAD  
SHARED USE PATH  
STA. 161+25 TO STA. 164+77.94**

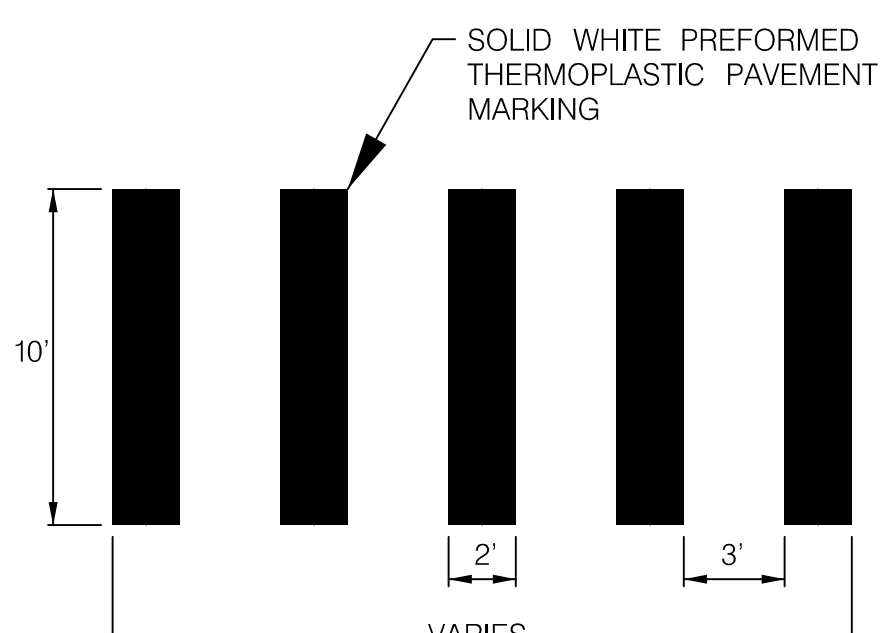
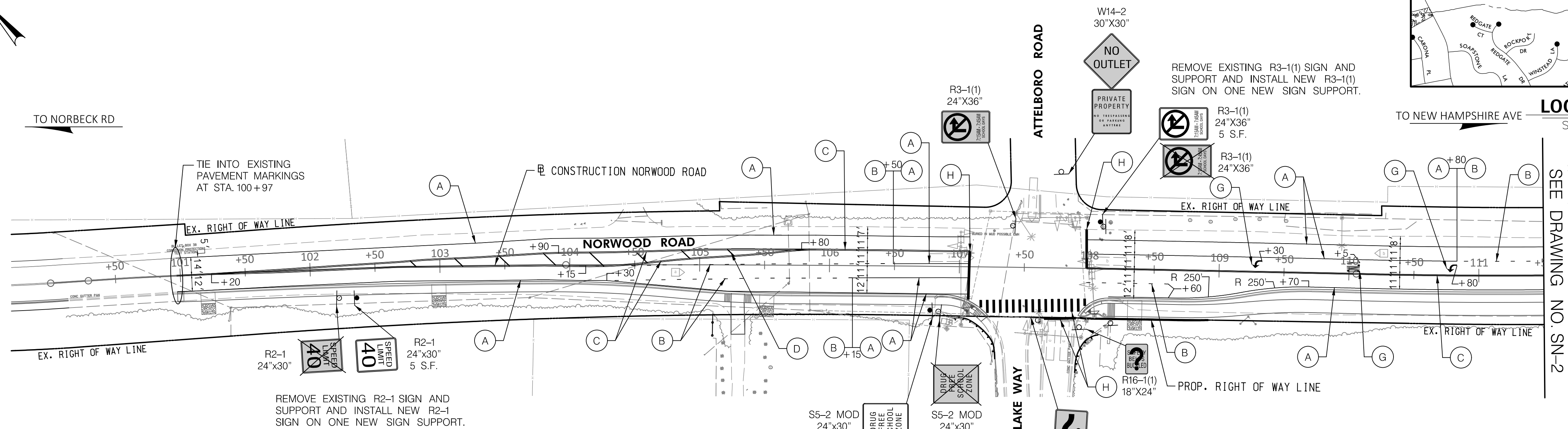
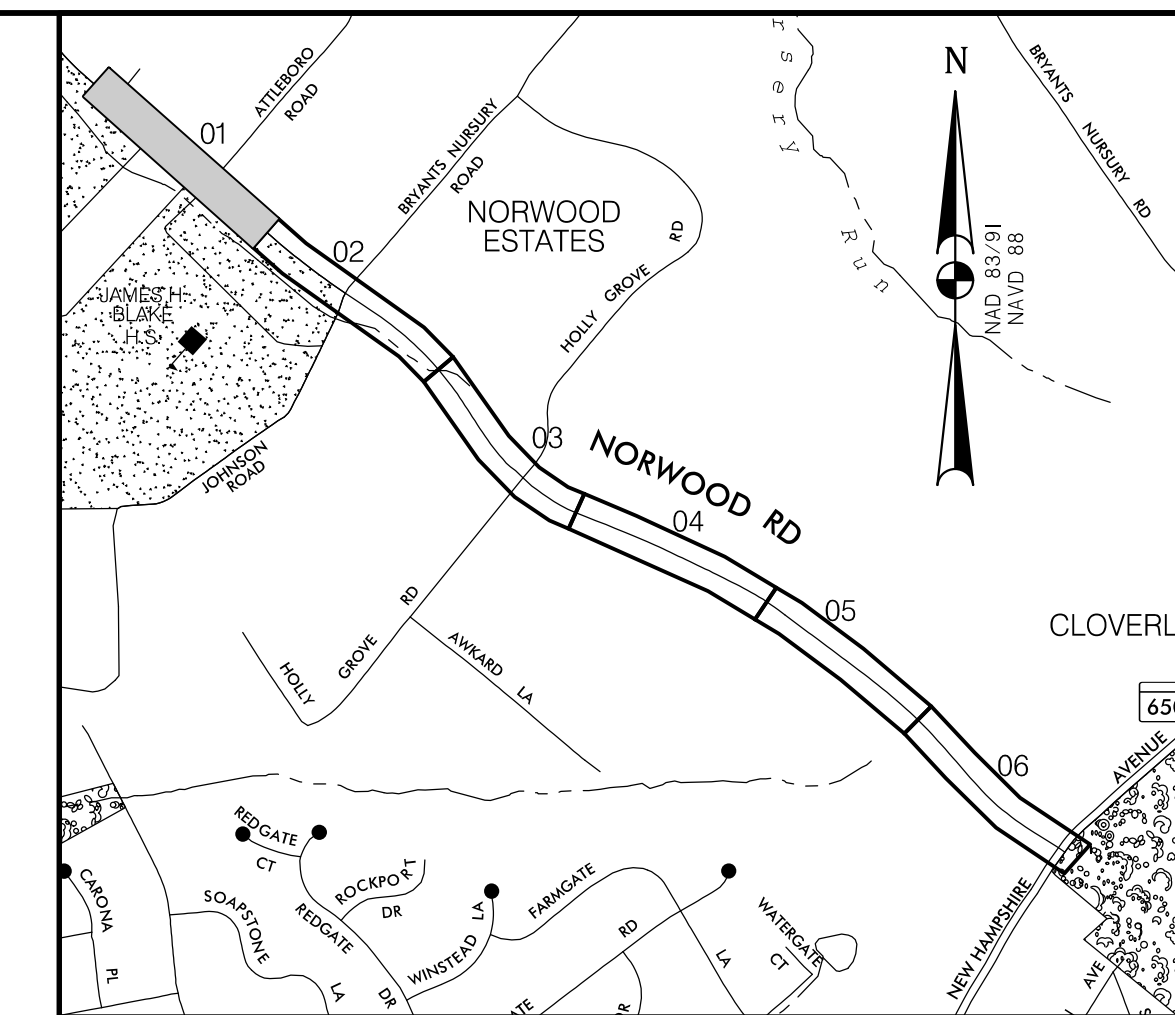
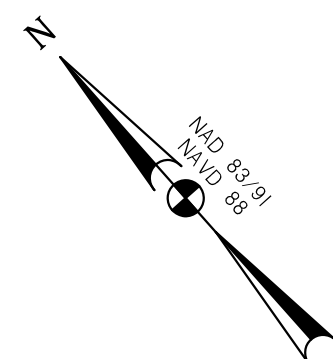
SCALE : 1"=20' DATE : JAN, 2024

PROJECT NO.: C.I.P. # PENDING SHEET NO. 122 OF 133

**WALLACE MONTGOMERY**  
ENGINEERS-PLANNERS-SURVEYORS-CONSTRUCTION MANAGERS  
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Hunt Valley, Maryland 21030  
410.494.9093 Tel / 410.667.0925 Fax  
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BY: gcrtswell-





- SIGNING AND MARKING NOTES:**
1. ALL SIGNING AND MARKING SHALL BE DONE IN ACCORDANCE WITH THE LATEST MARYLAND MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MD MUTCD), MARYLAND STATE HIGHWAY ADMINISTRATION'S BOOK OF STANDARDS, SPECIFICATIONS AND GUIDELINES.
  2. THE CONTRACTOR SHALL USE DIAMOND GRADE REFLECTIVE SHEETING FOR ALL SIGNS.
  3. STOP LINE SHALL BE 24 INCH WIDE HEAT APPLIED PREFORMED THERMOPLASTIC. THE SPACING BETWEEN THE STOP LINE AND THE CROSSWALK MARKING SHALL BE 4 FEET AT A MINIMUM.
  4. WHEN SIGNS ARE INSTALLED IN CONCRETE OR WITHIN THE SIDEWALK, A PVC SLEEVE SHALL BE PROVIDED USING 40 SCHEDULE PVC (4 INCH DIAMETER).
  5. NO PARKING AND OTHER PARKING SIGNS SHALL BE INSTALLED AT AN ANGLE OF NOT LESS THAN 30 DEGREES AND NO MORE THAN 45 DEGREES WITH THE LINE OF TRAFFIC FLOW.
  6. SIGN HEIGHT SHALL BE MINIMUM 7 FEET HIGH FROM THE BOTTOM OF THE SIGN FACE TO THE GROUND.
  7. RECESSED SNOWPLOWABLE RAISED PAVEMENT MARKERS SHALL BE INSTALLED THROUGHOUT THE ENTIRE LIMITS WHERE EXISTING PAVEMENT MARKERS WERE REMOVED, IN ACCORDANCE WITH SPECIFICATIONS, MD-MUTCD SECTIONS 3B.11 THROUGH 3B.14 AND MDMUTCD FIGURES 3B-2b AND 3B-7e.

LEGEND	
	PROPOSED SIGN
	EXISTING SIGN TO REMAIN
	EXISTING SIGN TO BE REMOVED
	5" SOLID WHITE THERMOPLASTIC PAVEMENT MARKING
	5" DASHED WHITE THERMOPLASTIC PAVEMENT MARKING (3' LINE, 9' SPACE)
	5" SOLID DOUBLE YELLOW THERMOPLASTIC PAVEMENT MARKING
	10" SOLID YELLOW THERMOPLASTIC PAVEMENT MARKING (SPACED 25' AT 45°)
	24" SOLID WHITE PERMANENT PREFORMED PATTERNED REFLECTIVE PAVEMENT MARKING (CROSSWALK) SEE DETAIL ON SN-2.1.
	24" SOLID WHITE PERMANENT PREFORMED PATTERNED REFLECTIVE PAVEMENT MARKING (STOP BAR)
	WHITE PREFORMED THERMOPLASTIC PAVEMENT MARKING SYMBOLS AND LEGENDS
	SEE SIGNAL PLAN



**30% SUBMITTAL**

DATUM: NAD 83/91 HORIZONTAL  
NAVD 88 VERTICAL

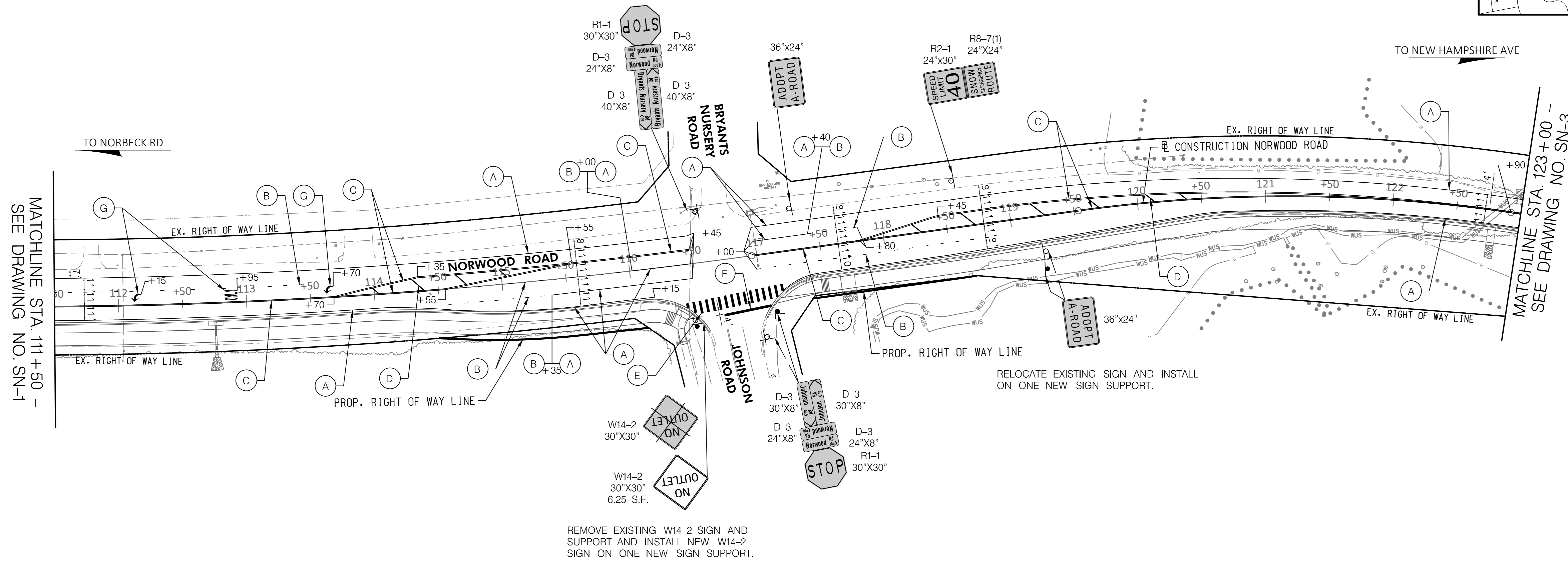
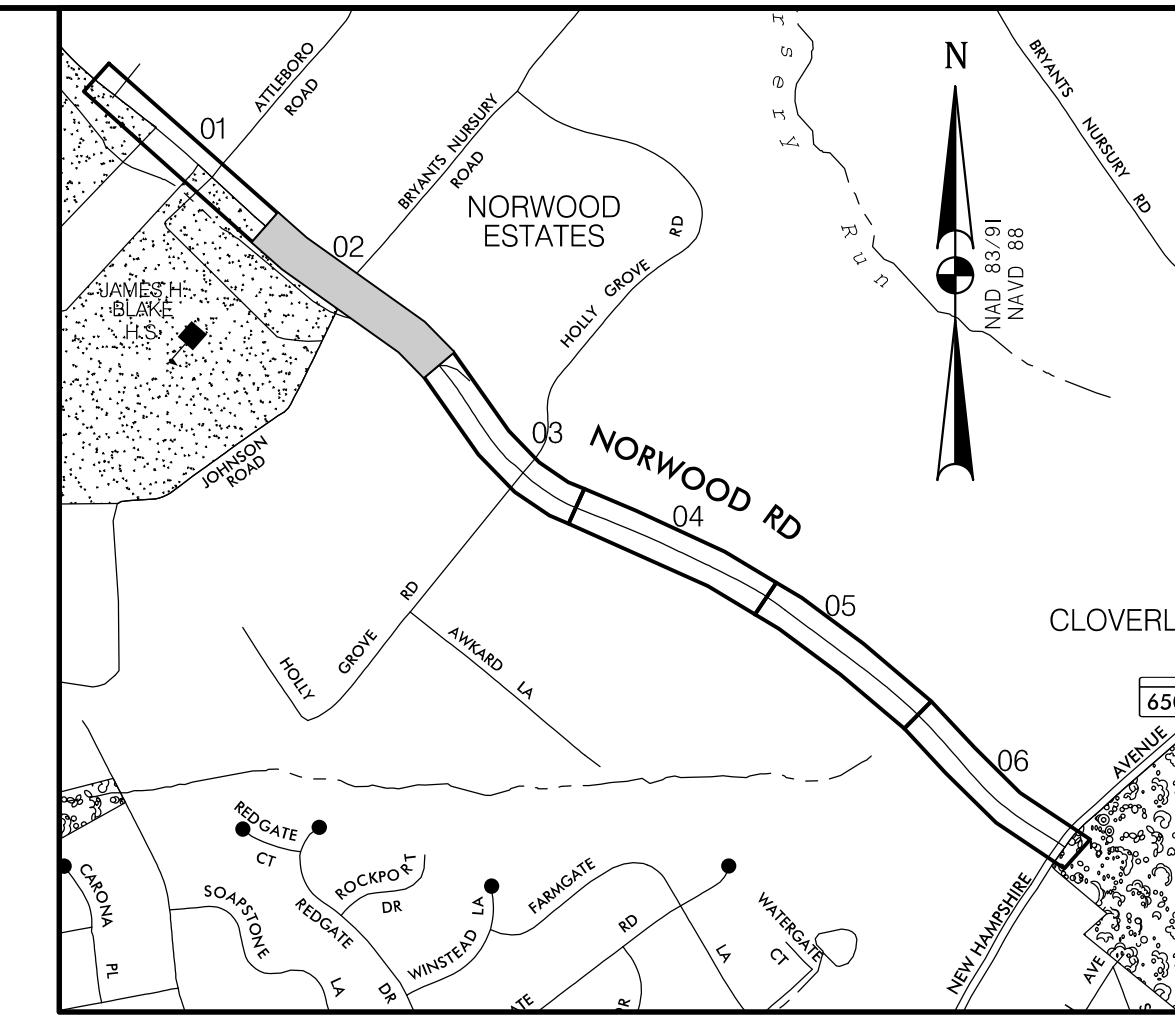
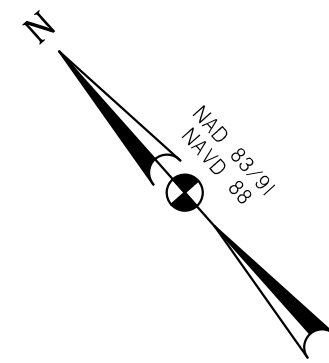
PROFESSIONAL CERTIFICATION	SEAL
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NO.	REVISION	DATE	BY

 MONTGOMERY COUNTY DEPARTMENT OF TRANSPORTATION 100 EDISON PARK DRIVE, 4TH FLOOR GAITHERSBURG, MD 20878	
RECOMMENDED FOR APPROVAL	DATE
Chief, Design Section	
APPROVED	
Chief, Division of Engineering Services	DATE
DESIGNED BY: G.N.C.	DRAWN BY: G.N.C.
CHECKED BY: B.R.P.	

<b>PLAN SHEET SN-1</b> <b>SIGNING AND PAVEMENT MARKING PLAN</b> <b>NORWOOD ROAD</b> <b>SHARED USE PATH</b> <b>STA. 100+00 TO STA. 111+50</b>	
SCALE: 1" = 50'	DATE: JAN, 2024
PROJECT NO.:	C.I.P. # PENDING
SHEET NO. 123	OF 133

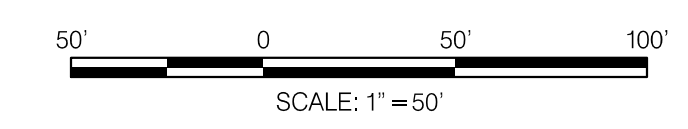
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MATCHLINE STA. 111+50 -  
SEE DRAWING NO. SN-1

MATCHLINE STA. 123+00 -  
SEE DRAWING NO. SN-3

LEGEND	
	PROPOSED SIGN
	EXISTING SIGN TO REMAIN
	EXISTING SIGN TO BE REMOVED
	5" SOLID WHITE THERMOPLASTIC PAVEMENT MARKING
	10" SOLID YELLOW THERMOPLASTIC PAVEMENT MARKING (SPACED 25' AT 45°)
	24" SOLID WHITE PERMANENT PREFORMED PATTERNED REFLECTIVE PAVEMENT MARKING (CROSSWALK) SEE DETAIL ON SN-2.1.
	24" SOLID WHITE PERMANENT PREFORMED PATTERNED REFLECTIVE PAVEMENT MARKING (STOP BAR)
	WHITE PREFORMED THERMOPLASTIC PAVEMENT MARKING SYMBOLS AND LEGENDS
	SEE SIGNAL PLAN



### 30% SUBMITTAL

DATUM: NAD 83/91 HORIZONTAL  
NAVD 88 VERTICAL

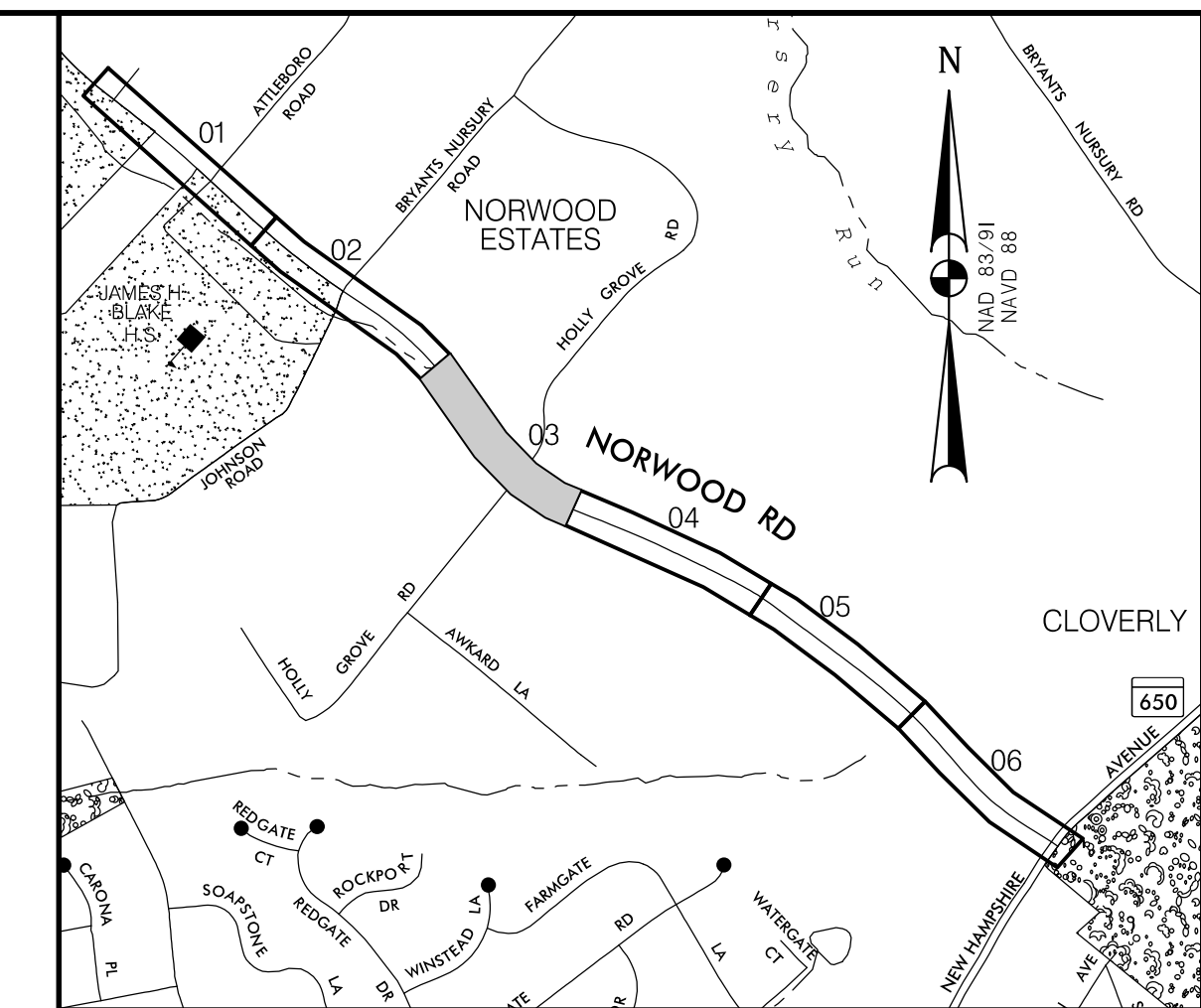
PROFESSIONAL CERTIFICATION	SEAL
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DATE:	

NO.	REVISION	DATE	BY

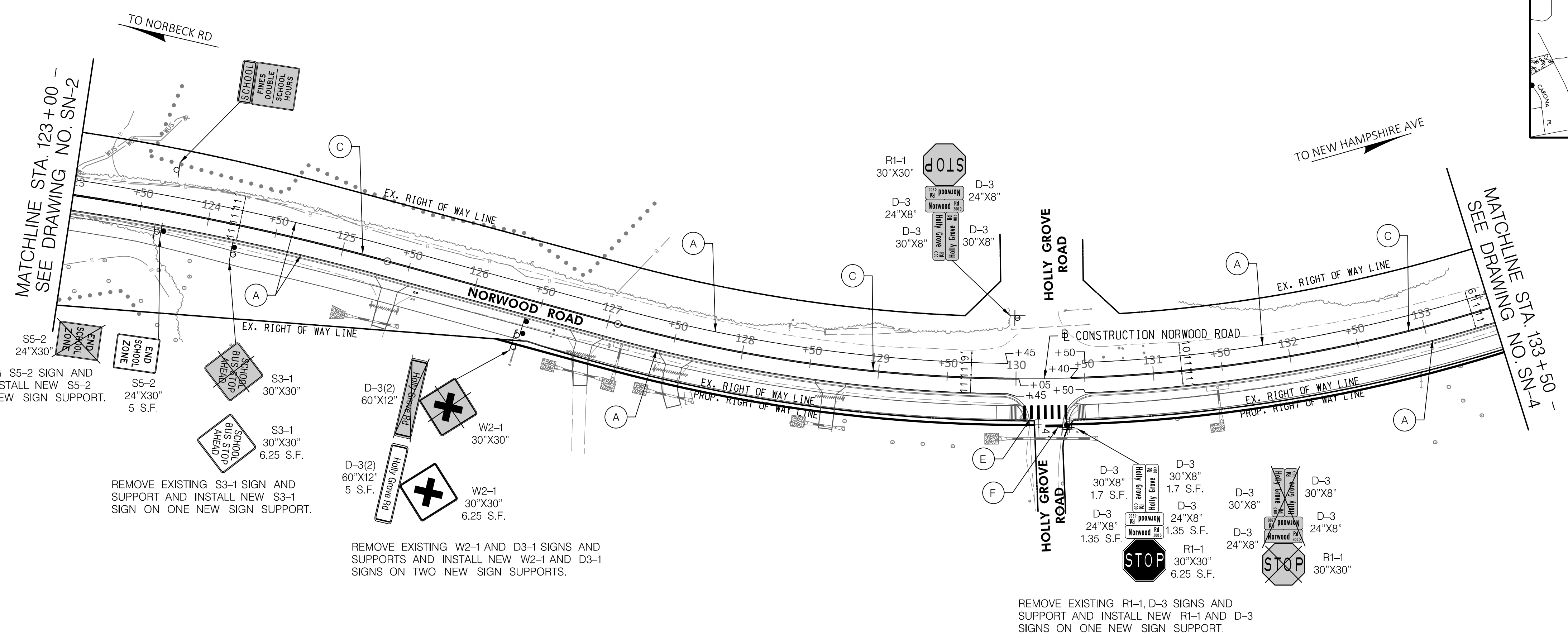
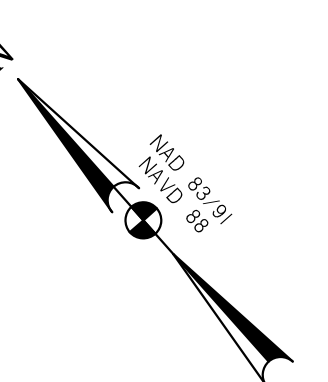
MONTGOMERY COUNTY DEPARTMENT OF TRANSPORTATION 100 EDISON PARK DRIVE, 4TH FLOOR GAITHERSBURG, MD 20878	
RECOMMENDED FOR APPROVAL	
Chief, Design Section	DATE
APPROVED	
Chief, Division of Engineering Services	DATE
DESIGNED BY: G.N.C.	DRAWN BY: G.N.C.
CHECKED BY: B.R.P.	

<b>PLAN SHEET SN-2</b> <b>SIGNING AND PAVEMENT MARKING PLAN</b> <b>NORWOOD ROAD</b> <b>SHARED USE PATH</b> <b>STA. 111+50 TO STA. 123+00</b>	
SCALE: 1"=50'	DATE: JAN. 2024
PROJECT NO.:	C.I.P. # PENDING
SHEET NO. 124	OF 133

**WALLACE MONTGOMERY**  
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**LOCATION MAP**  
SCALE 1"=1000'



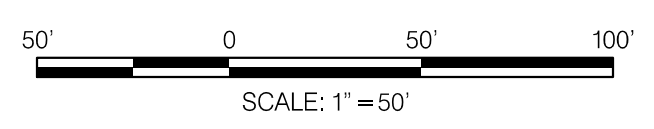
REMOVE EXISTING S5-2 SIGN AND SUPPORT AND INSTALL NEW S5-2 SIGN ON ONE NEW SIGN SUPPORT.

REMOVE EXISTING S3-1 SIGN AND SUPPORT AND INSTALL NEW S3-1 SIGN ON ONE NEW SIGN SUPPORT.

REMOVE EXISTING W2-1 AND D3-1 SIGNS AND SUPPORTS AND INSTALL NEW W2-1 AND D3-1 SIGNS ON TWO NEW SIGN SUPPORTS.

REMOVE EXISTING R1-1, D-3 SIGNS AND SUPPORT AND INSTALL NEW R1-1 AND D-3 SIGNS ON ONE NEW SIGN SUPPORT.

LEGEND	
	PROPOSED SIGN
	EXISTING SIGN TO REMAIN
	EXISTING SIGN TO BE REMOVED
	5" SOLID WHITE THERMOPLASTIC PAVEMENT MARKING
	5" DASHED WHITE THERMOPLASTIC PAVEMENT MARKING (3' LINE, 9' SPACE)
	5" SOLID DOUBLE YELLOW THERMOPLASTIC PAVEMENT MARKING
	10" SOLID YELLOW THERMOPLASTIC PAVEMENT MARKING (SPACED 25' AT 45°)
	24" SOLID WHITE PERMANENT PREFORMED PATTERNED REFLECTIVE PAVEMENT MARKING (CROSSWALK) SEE DETAIL ON SN-2.1.
	24" SOLID WHITE PERMANENT PREFORMED PATTERNED REFLECTIVE PAVEMENT MARKING (STOP BAR)
	WHITE PREFORMED THERMOPLASTIC PAVEMENT MARKING SYMBOLS AND LEGENDS
	SEE SIGNAL PLAN



**30% SUBMITTAL**

DATUM: NAD 83/91 HORIZONTAL  
NAVD 88 VERTICAL

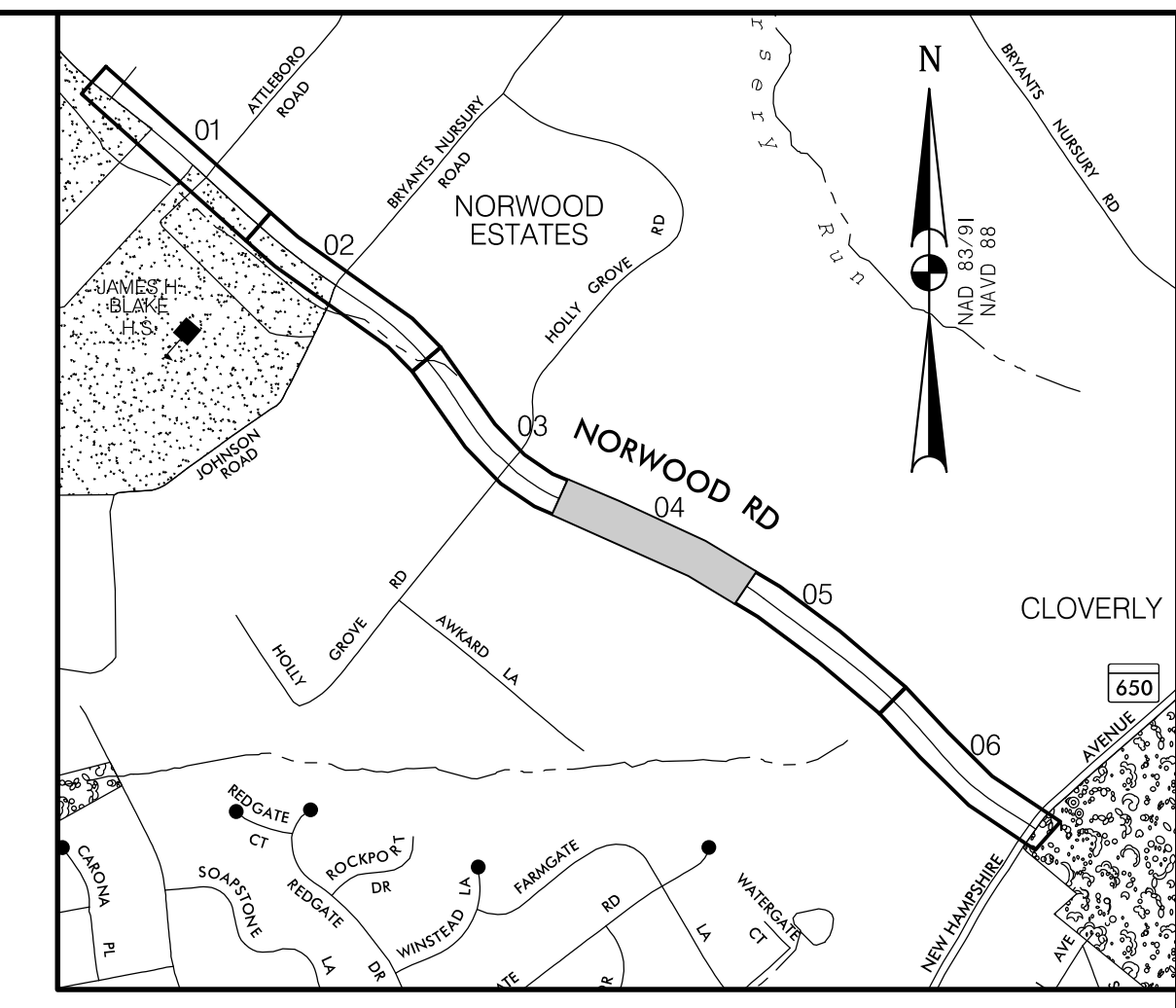
PROFESSIONAL CERTIFICATION	SEAL
I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND. JOHN L. RECTANUS	
LICENSE NO.: 25173	
EXP. DATE: 06/21/2025	DATE:

NO.	REVISION	DATE	BY

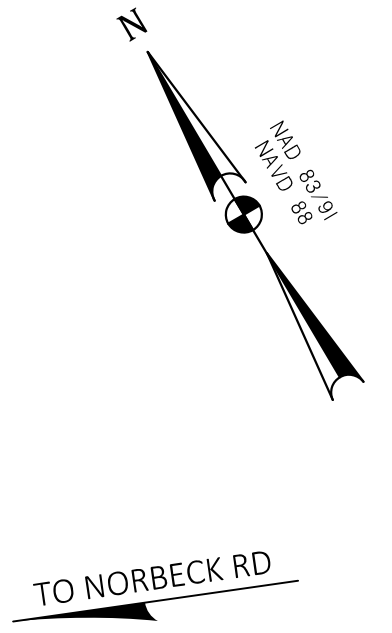
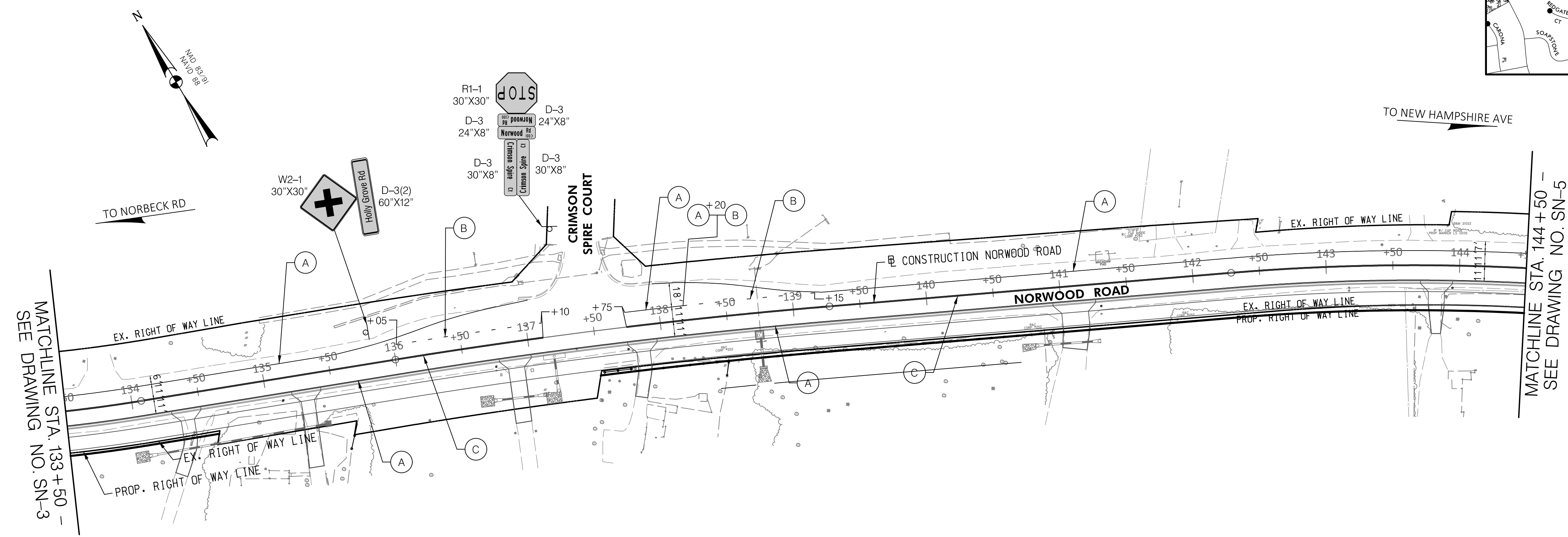
MONTGOMERY COUNTY DEPARTMENT OF TRANSPORTATION 100 EDISON PARK DRIVE, 4TH FLOOR GAITHERSBURG, MD 20878	
RECOMMENDED FOR APPROVAL	
Chief, Design Section	DATE
APPROVED	
Chief, Division of Engineering Services	DATE
DESIGNED BY: G.N.C.	DRAWN BY: G.N.C.
CHECKED BY: B.R.P.	

<b>PLAN SHEET SN-3</b> <b>SIGNING AND PAVEMENT MARKING PLAN</b> <b>NORWOOD ROAD</b> <b>SHARED USE PATH</b> <b>STA. 123+00 TO STA. 133+50</b>	
SCALE: 1"=50'	DATE: JAN, 2024
PROJECT NO.: C.I.P. # PENDING	SHEET NO. 125 OF 133

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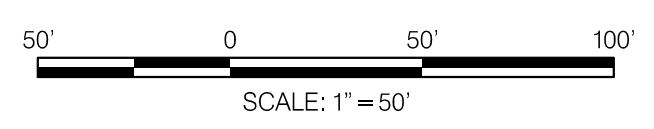
**LOCATION MAP**  
SCALE 1"=1000'



MATCHLINE STA. 133+50 -  
SEE DRAWING NO. SN-3

MATCHLINE STA. 144+50 -  
SEE DRAWING NO. SN-5

LEGEND	
	PROPOSED SIGN
	EXISTING SIGN TO REMAIN
	EXISTING SIGN TO BE REMOVED
	5" SOLID WHITE THERMOPLASTIC PAVEMENT MARKING
	5" DASHED WHITE THERMOPLASTIC PAVEMENT MARKING (3' LINE, 9' SPACE)
	5" SOLID DOUBLE YELLOW THERMOPLASTIC PAVEMENT MARKING
	10" SOLID YELLOW THERMOPLASTIC PAVEMENT MARKING (SPACED 25' AT 45°)
	24" SOLID WHITE PERMANENT PREFORMED PATTERNED REFLECTIVE PAVEMENT MARKING (CROSSWALK) SEE DETAIL ON SN-2.1.
	24" SOLID WHITE PERMANENT PREFORMED PATTERNED REFLECTIVE PAVEMENT MARKING (STOP BAR)
	WHITE PREFORMED THERMOPLASTIC PAVEMENT MARKING SYMBOLS AND LEGENDS
	SEE SIGNAL PLAN



**30% SUBMITTAL**

DATUM: NAD 83/91 HORIZONTAL  
NAVD 88 VERTICAL

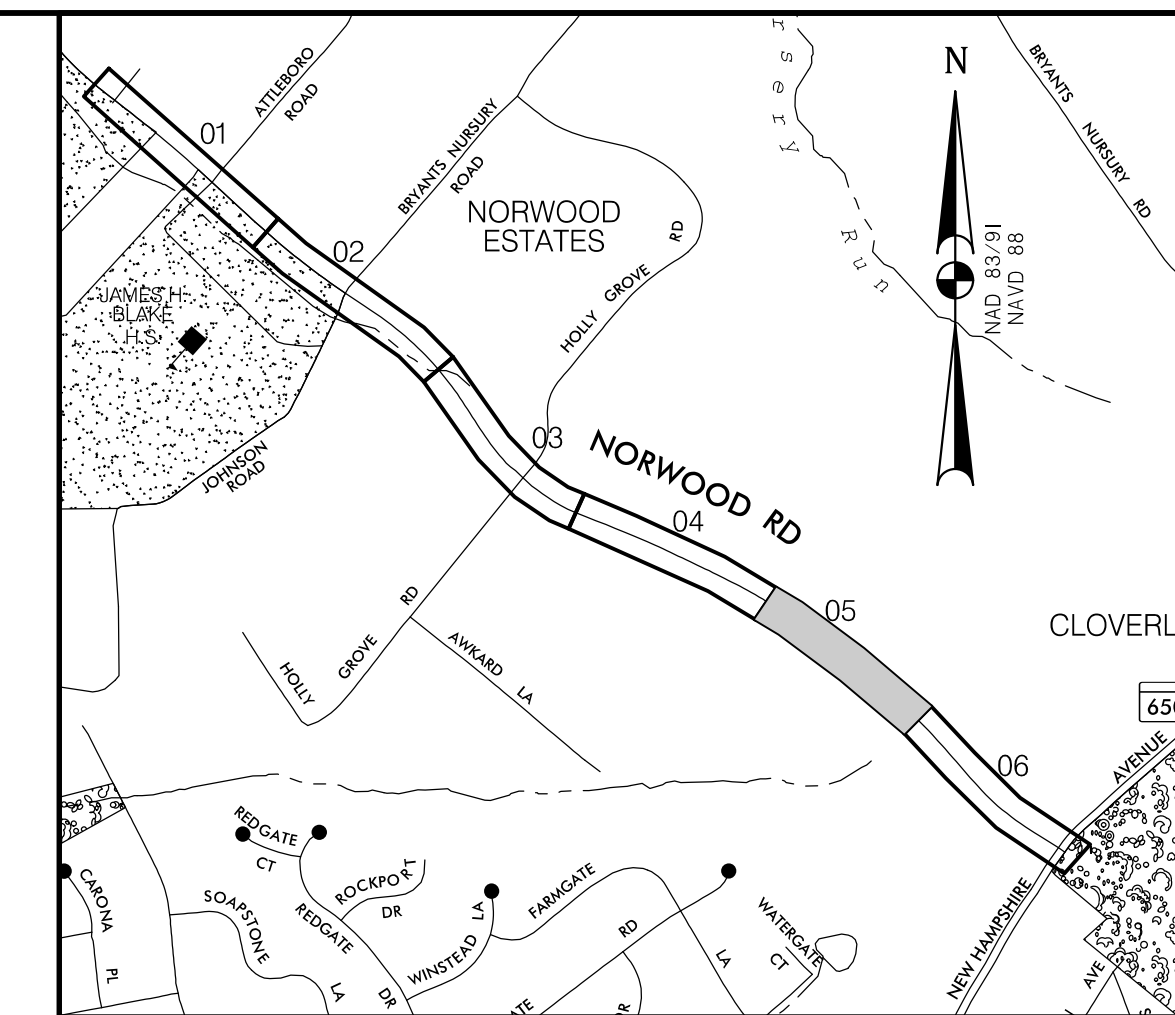
PROFESSIONAL CERTIFICATION	SEAL
I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND. JOHN L. RECTANUS LICENSE NO.: 25173 EXP. DATE: 06/21/2025	DATE:

NO.	REVISION	DATE	BY

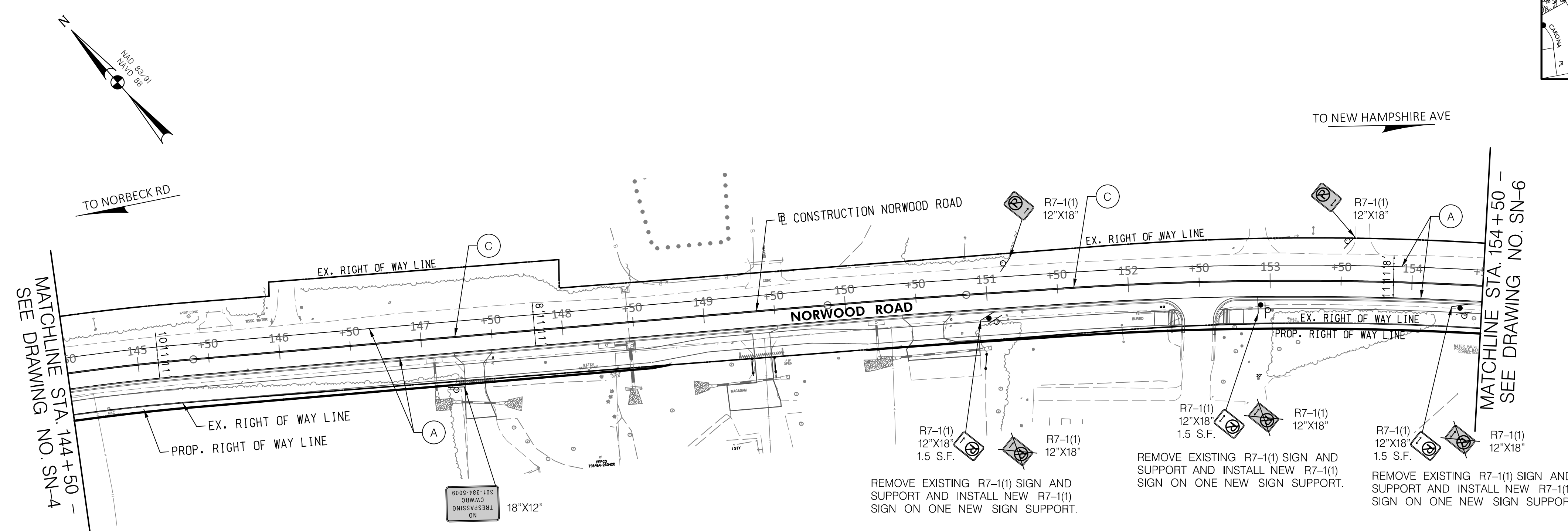
MONTGOMERY COUNTY DEPARTMENT OF TRANSPORTATION 100 EDISON PARK DRIVE, 4TH FLOOR GAITHERSBURG, MD 20878	
RECOMMENDED FOR APPROVAL	DATE
Chief, Design Section	APPROVED
Chief, Division of Engineering Services	DATE
DESIGNED BY: G.N.C.	DRAWN BY: G.N.C.
CHECKED BY: B.R.P.	

<b>PLAN SHEET SN-4</b> <b>SIGNING AND PAVEMENT MARKING PLAN</b> <b>NORWOOD ROAD</b> <b>SHARED USE PATH</b> <b>STA. 133+50 TO STA. 144+50</b>	
SCALE: 1"=50'	DATE: JAN, 2024
PROJECT NO.: C.I.P. # PENDING	SHEET NO. 126 OF 133

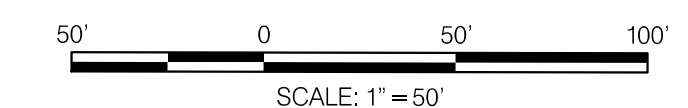
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**LOCATION MAP**  
SCALE 1"=1000'



LEGEND	
	PROPOSED SIGN
	EXISTING SIGN TO REMAIN
	EXISTING SIGN TO BE REMOVED
	5' SOLID WHITE THERMOPLASTIC PAVEMENT MARKING
	5' DASHED WHITE THERMOPLASTIC PAVEMENT MARKING (3' LINE, 9' SPACE)
	5' SOLID DOUBLE YELLOW THERMOPLASTIC PAVEMENT MARKING
	10' SOLID YELLOW THERMOPLASTIC PAVEMENT MARKING (SPACED 25' AT 45°)
	24' SOLID WHITE PERMANENT PREFORMED PATTERNED REFLECTIVE PAVEMENT MARKING (CROSSWALK) SEE DETAIL ON SN-2.1.
	24' SOLID WHITE PERMANENT PREFORMED PATTERNED REFLECTIVE PAVEMENT MARKING (STOP BAR)
	WHITE PREFORMED THERMOPLASTIC PAVEMENT MARKING SYMBOLS AND LEGENDS
	SEE SIGNAL PLAN



**30% SUBMITTAL**

DATUM: NAD 83/91 HORIZONTAL  
NAVD 88 VERTICAL

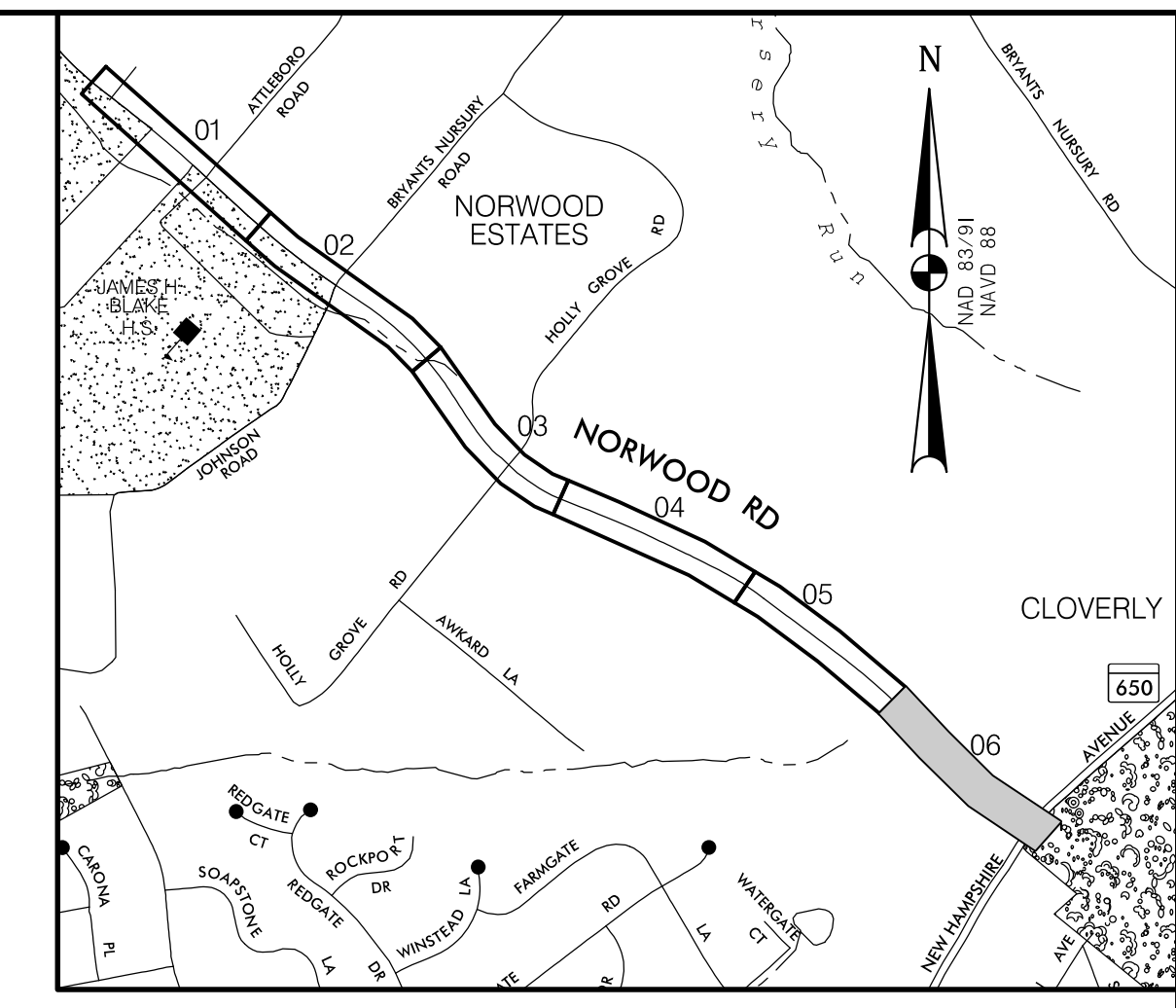
PROFESSIONAL CERTIFICATION	SEAL
I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND. JOHN L. RECTANUS LICENSE NO.: 25173 EXP. DATE: 06/21/2025	DATE:

MONTGOMERY COUNTY DEPARTMENT OF TRANSPORTATION 100 EDISON PARK DRIVE, 4TH FLOOR GAITHERSBURG, MD 20878	
RECOMMENDED FOR APPROVAL	
Chief, Design Section	DATE
APPROVED	
Chief, Division of Engineering Services	DATE
DESIGNED BY: G.N.C.	DRAWN BY: G.N.C.
CHECKED BY: B.R.P.	

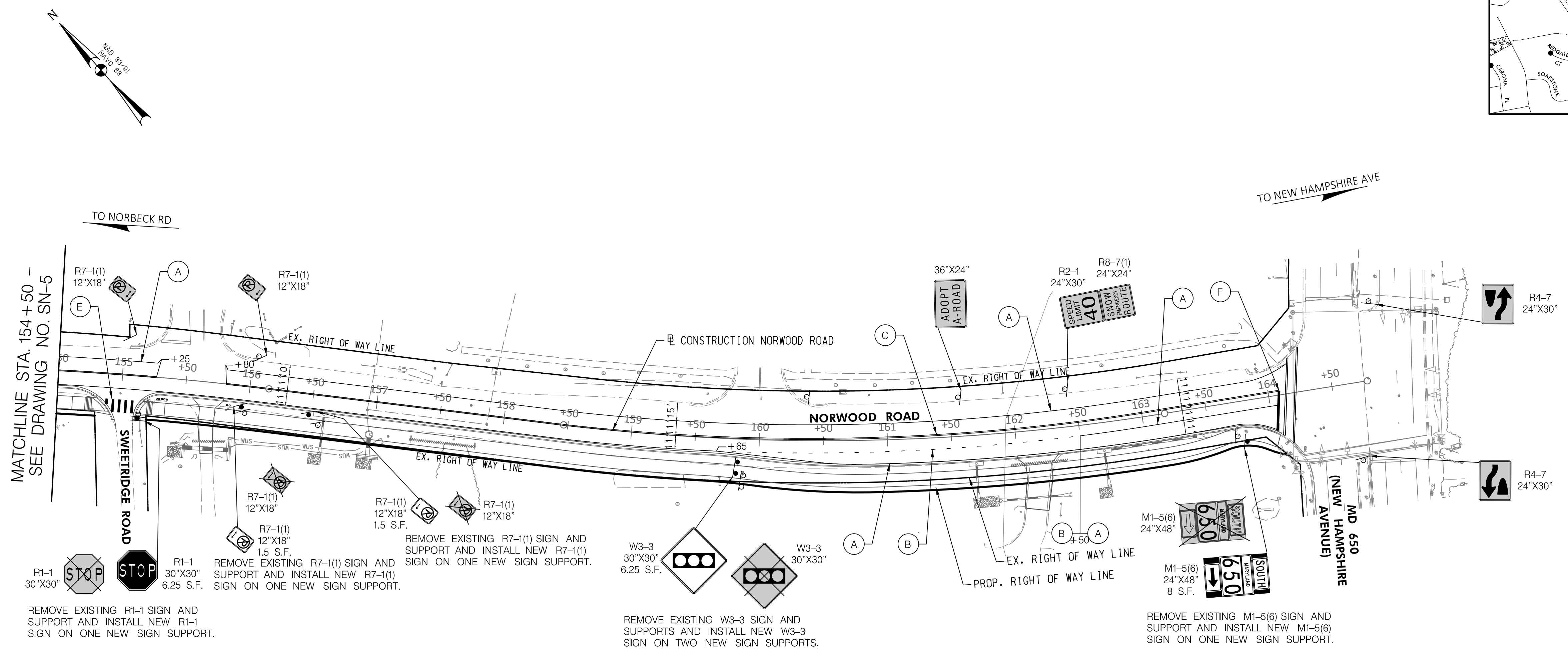
<b>PLAN SHEET SN-5</b> <b>SIGNING AND PAVEMENT MARKING PLAN</b> <b>NORWOOD ROAD</b> <b>SHARED USE PATH</b> <b>STA. 144+50 TO STA. 154+50</b>	
SCALE: 1"=50'	DATE: JAN, 2024
PROJECT NO.:	C.I.P. # PENDING
SHEET NO. 127	OF 133

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BY: gcfitswell-



**LOCATION MAP**  
SCALE 1"=1000'



MATCHLINE STA. 154+50 - SEE DRAWING NO. SN-5

R1-1 30"X30" STOP  
REMOVE EXISTING R1-1 SIGN AND SUPPORT AND INSTALL NEW R1-1 SIGN ON ONE NEW SIGN SUPPORT.

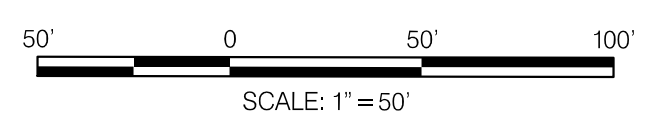
R7-1(1) 12"X18" 1.5 S.F.  
REMOVE EXISTING R7-1(1) SIGN AND SUPPORT AND INSTALL NEW R7-1(1) SIGN ON ONE NEW SIGN SUPPORT.

R7-1(1) 12"X18" 1.5 S.F.  
REMOVE EXISTING R7-1(1) SIGN AND SUPPORT AND INSTALL NEW R7-1(1) SIGN ON ONE NEW SIGN SUPPORT.

W3-3 30"X30" 6.25 S.F.  
REMOVE EXISTING W3-3 SIGN AND SUPPORTS AND INSTALL NEW W3-3 SIGN ON TWO NEW SIGN SUPPORTS.

M1-5(6) 24"X48" 8 S.F.  
REMOVE EXISTING M1-5(6) SIGN AND SUPPORT AND INSTALL NEW M1-5(6) SIGN ON ONE NEW SIGN SUPPORT.

LEGEND	
	PROPOSED SIGN
	EXISTING SIGN TO REMAIN
	EXISTING SIGN TO BE REMOVED
	5" SOLID WHITE THERMOPLASTIC PAVEMENT MARKING
	5" DASHED WHITE THERMOPLASTIC PAVEMENT MARKING (3' LINE, 9' SPACE)
	5" SOLID DOUBLE YELLOW THERMOPLASTIC PAVEMENT MARKING
	10" SOLID YELLOW THERMOPLASTIC PAVEMENT MARKING (SPACED 25' AT 45°)
	24" SOLID WHITE PERMANENT PREFORMED PATTERNED REFLECTIVE PAVEMENT MARKING (CROSSWALK) SEE DETAIL ON SN-2.1.
	24" SOLID WHITE PERMANENT PREFORMED PATTERNED REFLECTIVE PAVEMENT MARKING (STOP BAR)
	WHITE PREFORMED THERMOPLASTIC PAVEMENT MARKING SYMBOLS AND LEGENDS
	SEE SIGNAL PLAN



**30% SUBMITTAL**

DATUM: NAD 83/91 HORIZONTAL  
NAVD 88 VERTICAL

PROFESSIONAL CERTIFICATION	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. JOHN L. RECTANUS LICENSE NO.: 25173 EXP. DATE: 06 / 21 / 2025	DATE:

NO.	REVISION	DATE	BY

 MONTGOMERY COUNTY DEPARTMENT OF TRANSPORTATION 100 EDISON PARK DRIVE, 4TH FLOOR GAITHERSBURG, MD 20878	
RECOMMENDED FOR APPROVAL	DATE
Chief, Design Section	APPROVED
Chief, Division of Engineering Services	DATE
DESIGNED BY: G.N.C.	DRAWN BY: G.N.C.
CHECKED BY: B.R.P.	

<b>PLAN SHEET SN-6</b> <b>SIGNING AND PAVEMENT MARKING PLAN</b> <b>NORWOOD ROAD</b> <b>SHARED USE PATH</b> <b>STA. 154+50 TO STA. 164+10</b>	
SCALE: 1"=50'	DATE: JAN, 2024
PROJECT NO.: C.I.P.# PENDING	SHEET NO. 128 OF 133

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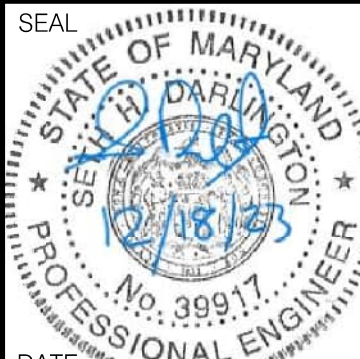


SOIL BORING LOG UNDER CONSTRUCTION


BORING ID	BORING LOCATION				SAMPLE DEPTH	CLASSIFICATION			NMC (%)	ATTERBERG LIMITS			T-180		% PASSING #200 SIEVE	
	STATION	OFFSET (FT.)	DIR	NORTHING		EASTING	USCS	AASHTO		USDA	LL	PL	PI	MDD (pcf)		OMC (%)
FB-01	118+75.78	39.16'	RT.	526,977.9394	1,308,329.770	S-1	X.0' - X.0'	-	-	XXX	-	-	-	-	-	XX.X
FB-02	119+50.00	36.76'	RT.	526,938.7036	1,308,392.05	S-1	X.0' - X.0'	-	-	XXX	-	-	-	-	-	XX.X
FB-03	120+25.00	32.32'	RT.	526,900.0945	1,308,307.907	S-1	X.0' - X.0'	-	-	XXX	-	-	-	-	-	XX.X
FB-04	121+00.00	25.67'	RT.	526,859.2595	1,308,992.992	S-1	X.0' - X.0'	-	-	XXX	-	-	-	-	-	XX.X
FB-05	121+75.00	20.67'	RT.	526,813.2241	1,308,575.590	S-1	X.0' - X.0'	-	-	XXX	-	-	-	-	-	XX.X
FB-06	122+67.44	29.04'	RT.	526,741.7841	1,308,629.7441	S-1	X.0' - X.0'	-	-	XXX	-	-	-	-	-	XX.X

**30% SUBMITTAL**

DATUM: NAD 83/91 HORIZONTAL  
NAVD 88 VERTICAL

<p>PROFESSIONAL CERTIFICATION</p> <p>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. SETH H. DARLINGTON</p> <p>LICENSE NO.: 39917</p> <p>EXP. DATE: 01/18/2025</p>	
--	---

NO.	REVISION	DATE	BY

 <p>MONTGOMERY COUNTY DEPARTMENT OF TRANSPORTATION 100 EDISON PARK DRIVE, 4TH FLOOR GAITHERSBURG, MD 20878</p>	<p>RECOMMENDED FOR APPROVAL</p> <p>Chief, Design Section _____ DATE _____ APPROVED</p> <p>Chief, Division of Engineering Services _____ DATE _____</p> <p>DESIGNED BY: L.C.M. DRAWN BY: L.C.M. CHECKED BY: S.H.D.</p>
---	---

<p><b>PLAN SHEET SB-02 SOIL BORING PLAN NORWOOD ROAD SHARED USE PATH</b></p>	
SCALE : N.T.S.	DATE : JAN, 2024
PROJECT NO.: C.I.P. # PENDING	SHEET NO. 130 OF 133



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# GRADING TABLE

ROADWAY	EXCAVATION																				EMBANKMENT			
	STATIONS		CLASS 1								CLASS 2				EROSION & SEDIMENT		FILL				CAPPING BORROW		SELECT BORROW	
	FROM	TO	CUT FROM XSECTS	TOPSOIL		ROOTMAT		TOTAL	SUITABLE FOR EMBANK.	SHRINK/SWELL FACTOR (%)	AVAIL FOR EMBANK.	TOTAL FROM XSECTS	LOSS DUE TO HANDLING	AVAIL FOR EMBANK.	ORIGINAL EXCAVATION	CLEAN-OUT EXCAVATION	FROM XSECT	TOT. REQ. BEFORE DENSIFICATION	CAPPING	TOT. REQ. AFTER DENSIFICATION	FROM XSECT	TOT. REQ. AFTER DENSIFICATION		
NORWOOD ROAD	PS-01 100+00   104+00		XXX	XXX	XXX	0	0	XXX	XXX	0.85	XXX	XXX	XXX	XXX	XXX	XXX	XXX	0	0	0	0			
	PS-02 104+00   108+50		XXX	XXX	XXX	0	0	XXX	XXX	0.85	XXX	XXX	XXX	XXX	XXX	XXX	XXX	0	0	0	0			
	PS-03 108+50   113+50		XXX	XXX	XXX	0	0	XXX	XXX	0.85	XXX	XXX	XXX	XXX	XXX	XXX	XXX	0	0	0	0			
	PS-04 113+50   118+50		XXX	XXX	XXX	0	0	XXX	XXX	0.85	XXX	XXX	XXX	XXX	XXX	XXX	XXX	0	0	0	0			
	PS-05 118+50   123+00		XXX	XXX	XXX	0	0	XXX	XXX	0.85	XXX	XXX	XXX	XXX	XXX	XXX	XXX	0	0	0	0			
	PS-06 123+00   128+00		XXX	XXX	XXX	0	0	XXX	XXX	0.85	XXX	XXX	XXX	XXX	XXX	XXX	XXX	0	0	0	0			
	PS-07 128+00   132+50		XXX	XXX	XXX	0	0	XXX	XXX	0.85	XXX	XXX	XXX	XXX	XXX	XXX	XXX	0	0	0	0			
	PS-08 132+50   136+50		XXX	XXX	XXX	0	XXX	XXX	XXX	0.85	XXX	XXX	XXX	XXX	XXX	XXX	XXX	0	0	0	0			
	PS-09 136+50   141+50		XXX	XXX	XXX	0	0	XXX	XXX	0.85	XXX	XXX	XXX	XXX	XXX	XXX	XXX	0	0	0	0			
	PS-10 141+50   146+00		XXX	XXX	XXX	0	0	XXX	XXX	0.85	XXX	XXX	XXX	XXX	XXX	XXX	XXX	0	0	0	0			
	PS-11 146+00   150+00		XXX	XXX	XXX	0	0	XXX	XXX	0.85	XXX	XXX	XXX	XXX	XXX	XXX	XXX	0	0	0	0			
	PS-12 150+00   154+00		XXX	XXX	XXX	0	0	XXX	XXX	0.85	XXX	XXX	XXX	XXX	XXX	XXX	XXX	0	0	0	0			
	PS-13 154+00   157+75		XXX	XXX	XXX	0	0	XXX	XXX	0.85	XXX	XXX	XXX	XXX	XXX	XXX	XXX	0	0	0	0			
	PS-14 157+75   161+25		XXX	XXX	XXX	0	0	XXX	XXX	0.85	XXX	XXX	XXX	XXX	XXX	XXX	XXX	0	0	0	0			
	PS-15 161+25   164+78		XXX	XXX	XXX	0	0	XXX	XXX	0.85	XXX	XXX	XXX	XXX	XXX	XXX	XXX	0	0	0	0			
TOTAL		XXX	XXX	XXX	0	0	XXX	XXX	0.85	XXX	XXX	XXX	XXX	XXX	XXX	XXX	0	0	0	0				

## SUMMARY OF EARTHWORK

### EXCAVATION

TOTAL CLASS 1 EXCAVATION .....	XXX	C.Y.
TOTAL CLASS 2 EXCAVATION .....	XXX	C.Y.
TOTAL EXCAVATION AVAILABLE FOR EMBANKMENT .....	XXX	C.Y.
TOTAL EROSION & SEDIMENT CONTROL EXCAVATION .....	XXX	C.Y.

### EMBANKMENT

TOTAL COMMON BORROW REQUIRED .....	XXX	C.Y.
TOTAL CAPPING BORROW REQUIRED .....	XXX	C.Y.
TOTAL SELECT BORROW REQUIRED .....	XXX	C.Y.
WASTE .....	XXX	C.Y.
COMMON BORROW REQUIRED .....	XXX	C.Y.
BORROW DENSIFIED ( %) .....	XXX	C.Y.
TOTAL COMMON BORROW REQUIRED .....	XXX	C.Y.

### PROPOSAL QUANTITIES

CLASS 1 EXCAVATION .....	XXX	C.Y.
CLASS 1-A EXCAVATION .....	XXX	C.Y.
CLASS 2 EXCAVATION .....	XXX	C.Y.
COMMON BORROW .....	XXX	C.Y.
CAPPING BORROW .....	XXX	C.Y.
SELECT BORROW .....	XXX	C.Y.

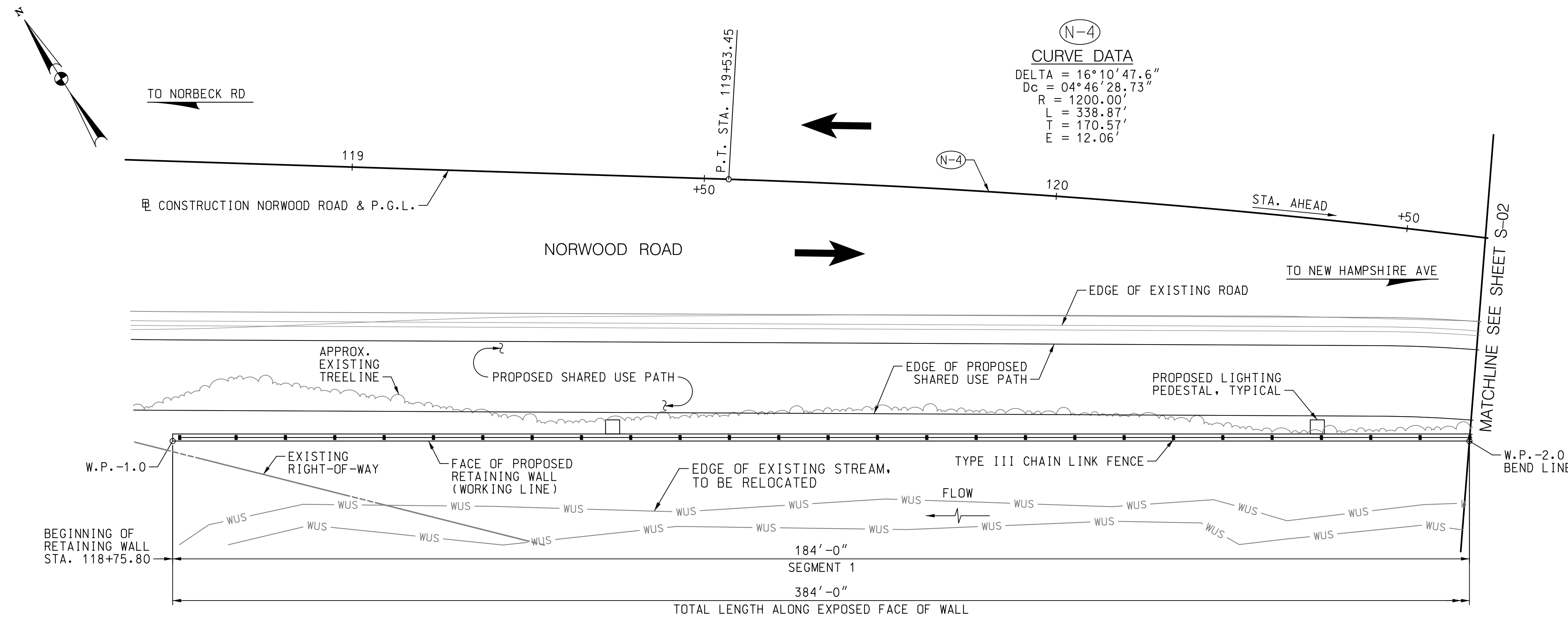
## 30% SUBMITTAL

PROFESSIONAL CERTIFICATION I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND. SETH H. DARLINGTON LICENSE NO.: 39917 EXP. DATE: 01/18/2025	SEAL SETH H. DARLINGTON PROFESSIONAL ENGINEER DATE:
---	--

MONTGOMERY COUNTY DEPARTMENT OF TRANSPORTATION 100 EDISON PARK DRIVE, 4TH FLOOR GAITHERSBURG, MD 20878
RECOMMENDED FOR APPROVAL
Chief, Design Section _____ DATE _____ APPROVED
Chief, Division of Engineering Services _____ DATE _____ DESIGNED BY: L.C.M. DRAWN BY: L.C.M. CHECKED BY: S.H.D.

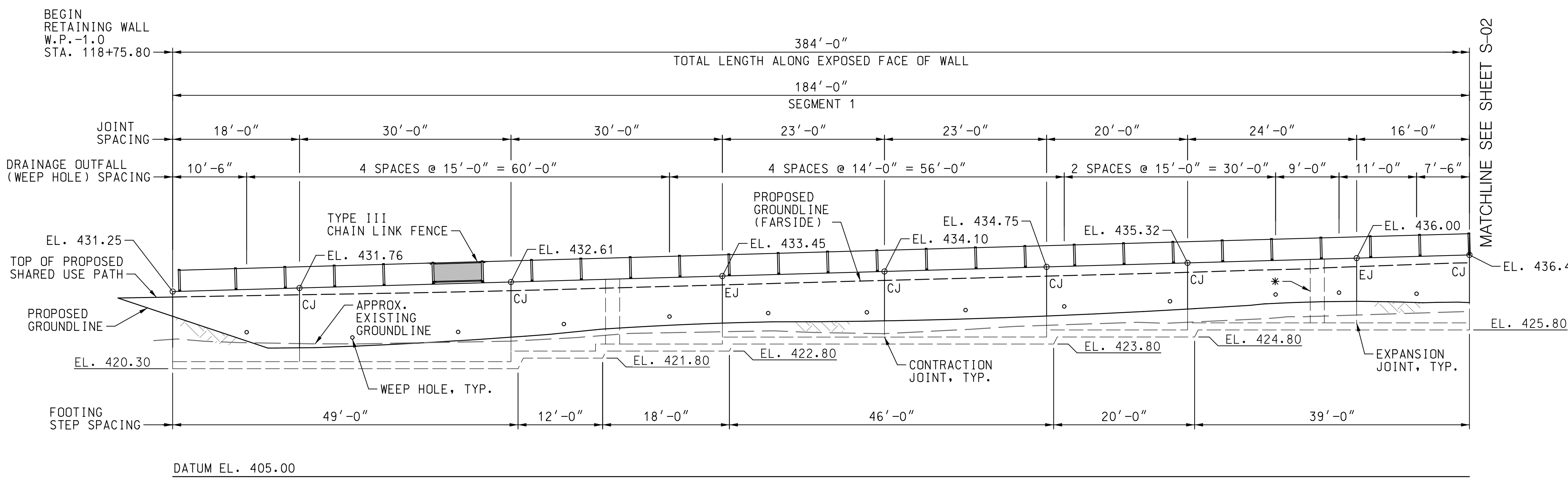
<b>PLAN SHEET GR-01</b> <b>GRADING TABLE &amp; SUMMARY OF EARTHWORK</b> <b>NORWOOD ROAD</b> <b>SHARED USE PATH</b>	
SCALE : N.T.S.	DATE : JAN, 2024
PROJECT NO.: C.I.P. # PENDING	SHEET NO. 131 OF 133

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--



**CURVE DATA**  
 DELTA = 16° 10' 47.6"  
 Dc = 04° 46' 28.73"  
 R = 1200.00'  
 L = 338.87'  
 T = 170.57'  
 E = 12.06'

**PLAN**  
 SCALE: 1" = 10'



**ELEVATION**  
 SCALE: 1" = 10'  
 (DEVELOPED ALONG FRONT FACE OF WALL)

**NOTE:**  
 PROPOSED LIGHT POSTS NOT SHOWN FOR CLARITY.

\* PROPOSED LIGHTING PEDESTAL, TYPICAL

**30% SUBMITTAL**

**GENERAL NOTES:**

- SPECIFICATIONS:** MDOT SHA STANDARD SPECIFICATIONS FOR CONSTRUCTION AND MATERIALS, DATED JULY 2023.
- DESIGN:** AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS, DATED 2020.
- LOAD RESTRICTIONS:** DESIGN BEARING PRESSURE IS 3.0 KSF
- THESE ARE RESTRICTIONS FOR PLACING EQUIPMENT AND MATERIALS ON EXISTING AND NEW STRUCTURE(S). REFER TO SECTION TC 6.14.
- CONCRETE:** NO CONSTRUCTION EQUIPMENT SHALL BE PERMITTED TO PASS OVER THE CULVERT UNTIL A MINIMUM OF 3 FEET OF COMPACTED FILL HAS BEEN PLACED OVER THE CULVERT.
- CONCRETE COMPRESSIVE STRENGTH FOR DESIGN SHALL BE  $f'c = 3000$  PSI FOR ELEMENTS USING MIX NO. 3
- REINFORCING STEEL:** ALL STRUCTURE CONCRETE SHALL BE MIX NO. 3 (3500 PSI).
- REINFORCING STEEL SHALL CONFORM TO A615, GRADE 60, WITH A YIELD STRENGTH FOR DESIGN OF  $f_y = 60000$  PSI.
- ALL SPLICES, NOT SHOWN, SHALL BE LAPPED AS PER BAR LAP CHARTS.
- REINFORCING STEEL SHALL BE EPOXY COATED WHEN NOTED WITH AN EP IN THE PLANS.
- MINIMUM CLEAR COVER FOR REINFORCING STEEL SHALL BE 2" EXCEPT FOR THE FOLLOWING LOCATIONS:
- | LOCATION                    | CLEAR COVER |
|-----------------------------|-------------|
| FOOTINGS - BOTTOM AND SIDES | 3 IN.       |
- FOR TIES AND STIRRUPS, STANDARD ACI BENDING TOLERANCES ARE MODIFIED TO PLUS (+) ZERO INCHES, MINUS (-) NORMAL ACI BENDING TOLERANCES.
- KEYS:** ALL CONCRETE CONSTRUCTION KEYS ARE NOMINAL SIZE.
- EXISTING STRUCTURE(S):** ALL DIMENSIONS AFFECTED BY THE GEOMETRY AND/OR LOCATION OF THE STRUCTURE(S): EXISTING STRUCTURE(S) SHALL BE CHECKED IN THE FIELD BY THE CONTRACTOR BEFORE ANY MATERIAL IS ORDERED OR FABRICATED OR CONSTRUCTION BEGINS.
- EXISTING UTILITIES:** THE LOCATION OF EXISTING UTILITIES SHOWN ON THE PLANS IS PROVIDED FOR INFORMATION PURPOSES AND GUIDANCE ONLY. THE ENGINEER DOES NOT GUARANTEE THE ACCURACY OR COMPLETENESS OF THE UTILITY INFORMATION SHOWN. THE CONTRACTOR SHALL LOCATE AND PROTECT ALL EXISTING UTILITIES THAT MAY BE AFFECTED BY THE PROPOSED WORK INCLUDING ANY REQUIRED TEST PITS.
- CONTRACTOR SHALL PERFORM ALL OPERATIONS WITH STRICT ADHERENCE TO THE "HIGH VOLTAGE ACT".

- NOTES:**
- FOR SEGMENTS 2, 3, AND 4, SEE SHEET S-02
  - FOR TYPICAL SECTION, SEE SHEET S-02

**WALLACE MONTGOMERY**  
 ENGINEERS-PLANNERS-SURVEYORS-CONSTRUCTION MANAGERS  
 10150 York Road, Suite 200  
 Hunt Valley, Maryland 21030  
 410.494.9093 Tel / 410.667.0925 Fax  
 www.WallaceMontgomery.com

WORKING POINT DATA				
MARK	STATION	OFFSET	NORTHING	EASTING
W.P. -1.0	118+75.80	39.66' L.T.	526,985.1890	1,308,336.2095
W.P. -2.0	120+62.38	28.88' L.T.	526,887.9658	1,308,492.4262
W.P. -3.0	121+49.58	28.69' L.T.	526,832.3168	1,308,556.6772
W.P. -4.0	122+10.04	29.03' L.T.	526,790.6729	1,308,598.4718
W.P. -5.0	122+67.45	29.54' L.T.	526,749.1229	1,308,636.0198

PROFESSIONAL CERTIFICATION  
 I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND.  
 LICENSE NO.: 22185  
 EXP. DATE: 12/06/2024



NO.	REVISION	DATE	BY

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

RECOMMENDED FOR APPROVAL

Chief, Design Section DATE

APPROVED

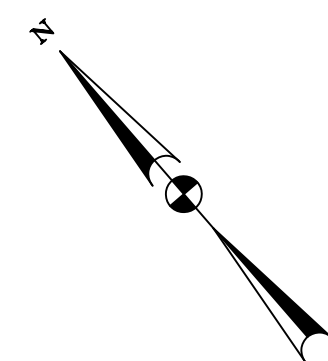
Chief, Division of Engineering Services DATE

DESIGNED BY: B.D.H./E.J.W. DRAWN BY: E.J.W. CHECKED BY: L.S.K.

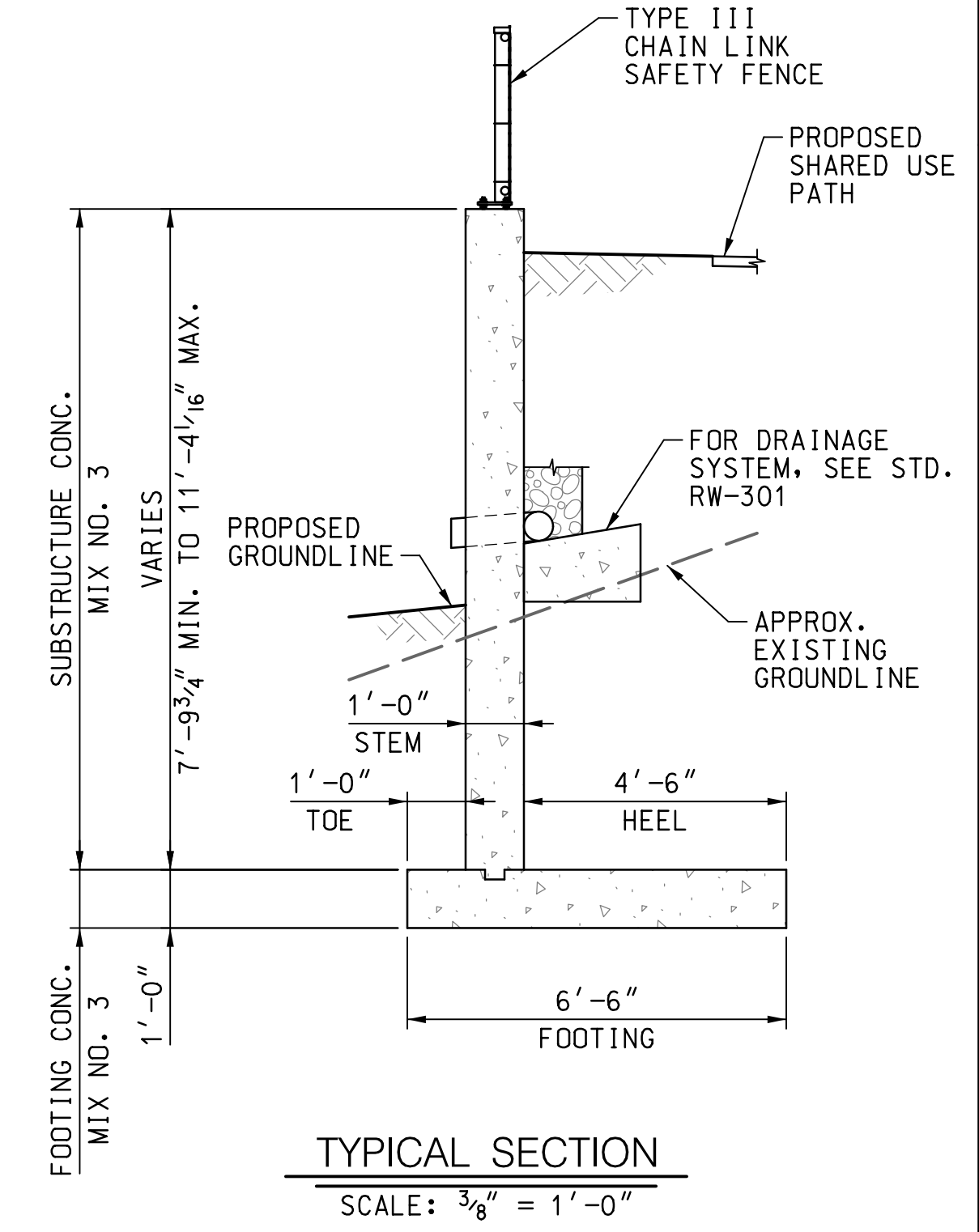
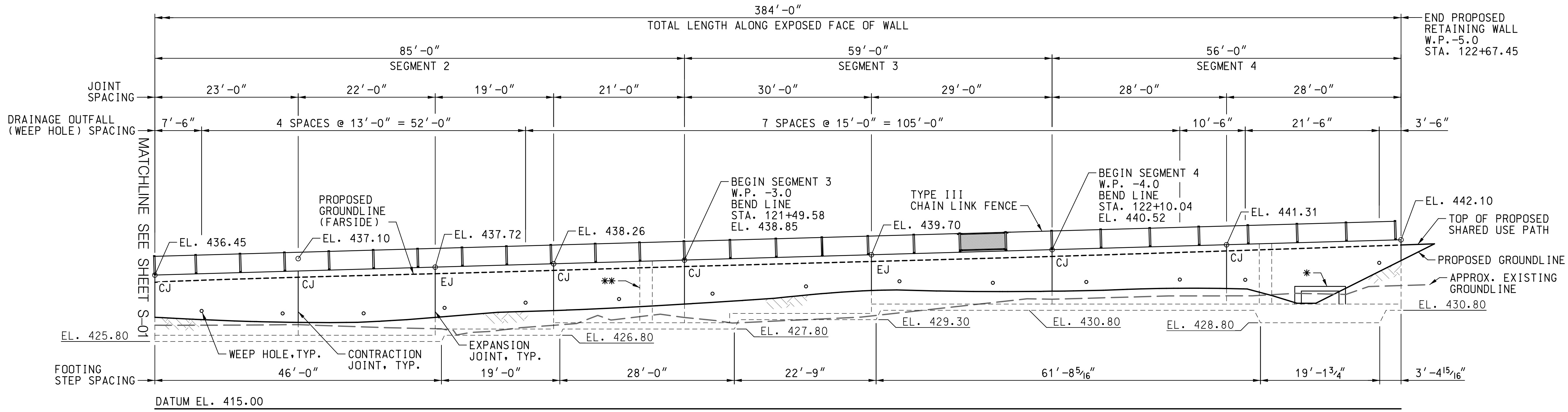
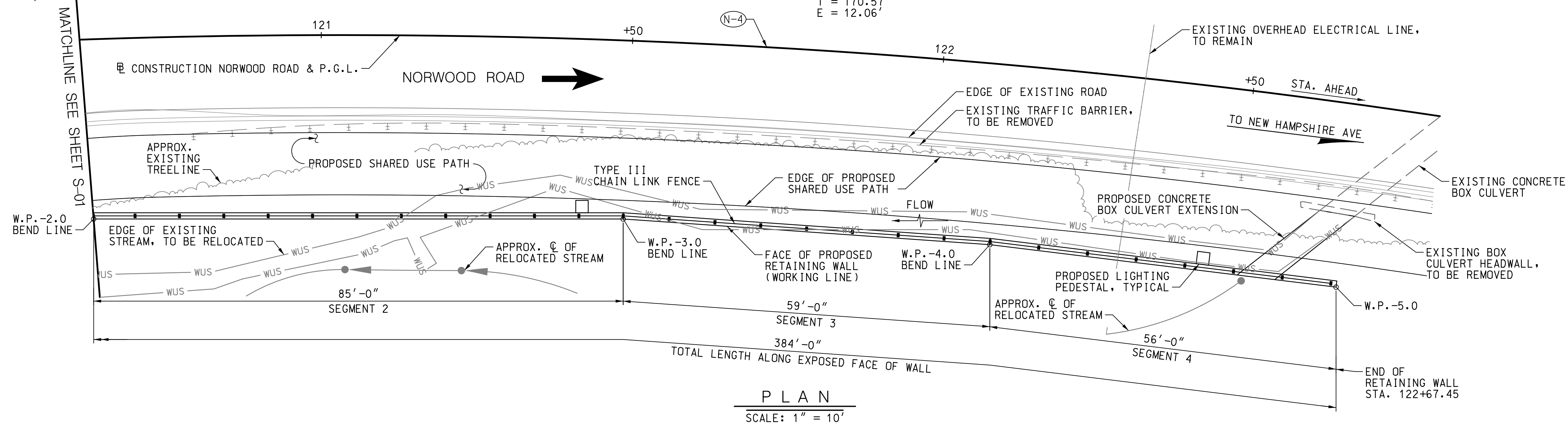
**PLAN SHEET S-01**  
**RETAINING WALL GENERAL PLAN AND ELEVATION**  
**NORWOOD ROAD**  
**SHARED USE PATH**

SCALE: AS NOTED DATE: JAN, 2024

PROJECT NO.: C.I.P. # PENDING SHEET NO. 132 OF 133



**(N-4) CURVE DATA**  
 DELTA = 16° 10' 47.6"  
 Dc = 04° 46' 28.73"  
 R = 1200.00'  
 L = 338.87'  
 T = 170.57'  
 E = 12.06'



**NOTE:**  
 PROPOSED LIGHT POSTS NOT SHOWN FOR CLARITY.

\* PROPOSED CULVERT EXTENSION TO BE DETAILED IN SUBSEQUENT SUBMITTALS.  
 \*\* PROPOSED LIGHTING PEDESTAL, TYPICAL

**30% SUBMITTAL**

DATUM: NAD 83/91 HORIZONTAL  
 NAVD 88 VERTICAL

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- NOTES:**
- FOR SEGMENT 1, SEE SHEET S-01
  - FOR WORKING POINT DATA, SEE SHEET S-01

PROFESSIONAL CERTIFICATION  
 I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND.  
 LICENSE NO.: 22185  
 EXP. DATE: 12/06/2024

SEAL  
 STATE OF MARYLAND  
 REGISTERED PROFESSIONAL ENGINEER  
 DATE:

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

RECOMMENDED FOR APPROVAL

Chief, Design Section DATE  
 APPROVED

Chief, Division of Engineering Services DATE

DESIGNED BY: B.D.H./E.J.W. DRAWN BY: E.J.W. CHECKED BY: L.S.K.

**PLAN SHEET S-02**  
**RETAINING WALL GENERAL PLAN AND ELEVATION**  
**NORWOOD ROAD**  
**SHARED USE PATH**

SCALE: AS NOTED DATE: JAN, 2024

PROJECT NO.: C.I.P. # PENDING SHEET NO. 133 OF 133

NO.	REVISION	DATE	BY

STRUCTURE INVENTORY NO. SURVEY BOOK NO.

PLOTTED: 15/2024  
 FILE: M:\PROJ\220015.0014\Structures\Cad\1\_pBR-GP02\_NORW.dgn

BY: ewetzel-