

MONTGOMERY COUNTY DEPARTMENT OF TRANSPORTATION DIVISION OF TRANSPORTATION ENGINEERING

MD 355 - CLARKSBURG SHARED USE PATH

STA. 495+29 TO STA. 531+37 C. I. P. PROJECT NO. 501744



Isiah Leggett
County Executive

Diane R. Schwartz Jones
Director

April 18, 2019

Mr. Charles Main II
Wallace Montgomery
10150 York Road, Suite 200
Hunt Valley, Maryland 21030

Re: REVISED PRELIMINARY AND FINAL WATER QUALITY PLAN/STORMWATER MANAGEMENT PLAN for MD 355 Mixed Use Path
Preliminary Plan #: N/A
SM File #: 283643
Tract Size/Zone: 1.4 acres/CR
Total Concept Area: 1.4 acres
Watershed: Little Seneca and Ten Mile Creek
Special Protection Areas

Dear Mr. Main:
Based on a review by the Department of Permitting Services Review Staff, the Revised Preliminary/Final Water Quality Plan for the above-mentioned site is acceptable. The revision is for the removal of the proposed nitro bioretention structure due to extreme site constraints. The Water Quality Plan proposes to meet required stormwater management goals via grass swales, pervious pavement and outfall improvements for the 36" and 48" outfalls at the west side of MD 355 and MD 121. This approval is for the elements of the Water Quality Plan of which DPS has lead agency responsibility and does not include limits on imperviousness or buffer encroachments.

The following items will need to be addressed during the detailed sediment control/stormwater management plan stage:

- A detailed review of the stormwater management computations will occur at the time of detailed plan review.
- Overdrains will be required for the areas of pervious pavement due to the variable infiltration rates, some of which are lower than normally allowed.

This list may not be all-inclusive and may change based on available information at the time. A stream monitoring fee for the site area and a BMP monitoring fee for the disturbed area in the SPA is required.
This letter must appear on the sediment control/stormwater management plan at its initial submission. The concept approval is based on all stormwater management structures being located outside of the Public Utility Easement, the Public Improvement Easement, and the Public Right of Way unless specifically approved on the concept plan. Any divergence from the information provided to this office, or additional information received during the development process, or a change in an applicable Executive Regulation may constitute grounds to rescind or amend any approval actions taken, and to reevaluate the site for additional or amended stormwater management requirements. If there are subsequent additions or modifications to the development, a separate concept request shall be required.
If you have any questions regarding these actions, please feel free to contact Leo Galarraga at 240-777-6242.

Sincerely,
Mark C. Etheridge, Manager
Water Resources Section
Division of Land Development Services

MCE:mg
cc: N. Braunstein
SM File #: 283643

ESD SUMMARY TABLE
REQUIRED:
TENMILE CREEK: PE=1.68" ESDV=3,132 CF
LITTLE SENECA CREEK: PE=1.80" ESDV=503
PROVIDED:
TENMILE CREEK: GRASS SWALE 3-1 PE=0.11" ESDV=17 CF
REMAINDER OF REQUIREMENT MET WITH OUTFALL REPAIR
LITTLE SENECA CREEK:
PERMEABLE PAVEMENT 1-1, 1-2, 1-3, 1-4
PE=2.0" ESDV=658 CF

TREE CANOPY REQUIREMENTS TABLE	
To be completed by the consultant and placed on the first sheet of the Sediment Control / Stormwater Management plan set for all projects.	
Exempt: Yes <input type="checkbox"/> No <input type="checkbox"/> If exempt under Section 55-5 of the Code, please check the applicable exemption category below.	
Total Property Area	Total Disturbed Area
151,693 square feet	151,693 square feet
Shade Trees Required	Shade Trees Proposed to be Planted
N/A	N/A
Fee in Lieu (Trees Required - Trees Planted) x \$250	\$ 14,250
Required Number of Shade Trees	
Area (sq. ft.) of the Limits of Disturbance	Number of Shade Trees Required
FROM TO	
1 6,000	3
6,001 8,000	6
8,001 12,000	9
12,001 14,000	12
14,001 40,000	15

If the square footage of the limits of disturbance is more than 40,000, then the number of shade trees required must be calculated using the following formula:
(Number of Square Feet in Limits of Disturbance ÷ 40,000) × 15

EXEMPTION CATEGORIES:

<ul style="list-style-type: none"> 55-5(a) any activity that is subject to Article II of Chapter 22A; 55-5(b) any commercial logging or timber harvesting operation with an approved exemption from Article II of Chapter 22A; 55-5(c) any activity conducted by the County Parks Department; 55-5(d) routine or emergency maintenance of an existing stormwater management facility, including an existing access road, if the person performing the 	<ul style="list-style-type: none"> maintenance has obtained all required permits; 55-5(h) any stream restoration project if the person performing the work has obtained all necessary permits; 55-5(i) cutting or clearing any tree to comply with applicable provisions of any federal, state, or local law governing safety of dams; OTHER: Specify per Section 55-5 of the Code.
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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.
11/23/2022 DATE
MARICELA CORDOVA ACTING CHIEF, DIVISION OF TRANSPORTATION ENGINEERING

DESIGN CERTIFICATION
I HEREBY CERTIFY THAT THIS PLAN HAS BEEN PREPARED IN ACCORDANCE WITH THE "2011 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL", AND MONTGOMERY COUNTY DEPARTMENT OF PERMITTING SERVICES EXECUTIVE REGULATIONS 36-90.
12/13/2024 DATE
MICHAEL W. MERCADO, P.E. ASSOCIATE, MERCADO CONSULTANTS, INC.

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)
12/13/2024 DATE
ROBERT J. HUDSON, P.E. SENIOR 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.
12/13/2024 DATE
GLENN MARSCHKE, P.E. VICE PRESIDENT, WALLACE MONTGOMERY

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. 26238, EXPIRATION DATE: 08/17/2025
12/13/2024 DATE
ROBERT J. HUDSON, P.E.

ATTENTION
THIS SITE IS WITHIN THE ENVIRONMENTALLY SENSITIVE CLARKSBURG SPECIAL PROTECTION AREA
TO HELP PROTECT THE DELICATE AQUATIC HABITAT FROM THE IMPACTS OF LAND DEVELOPMENT THESE PLANS MUST BE STRICTLY ADHERED TO
IF THERE IS A PROBLEM, CALL ANDREW KOHLER AT 240-777-6275
AND THE MCDPS STAFF MEMBER WILL ASSIST YOU IN DEVELOPING A SOLUTION BEFORE STREAM IMPACTS OCCUR (MENTION THAT THE SITE IS WITHIN A SPECIAL PROTECTION AREA WHEN YOU CALL)
"LET'S WORK TOGETHER TO KEEP IT CLEAN"
ACKNOWLEDGED MARICELA CORDOVA OWNER/DEVELOPER

APPROVALS:

TRAFFIC CONTROL PLANS	Stella Agbiniadon SIGNATURE	10/10/2024 DATE
LIGHTING PLANS	Charles Pippin SIGNATURE	10/21/2024 DATE
SIGNING & PAVEMENT MARKING PLANS	SIGNATURE	DATE
TRAFFIC SIGNAL PLANS	SIGNATURE	DATE

LIMIT OF WORK
C.I.P. PROJECT NO. 501744
STRINGTOWN ROAD
STA. 703+11

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 8,651 CUBIC YARDS OF EXCAVATION AND 1,291 CUBIC YARDS OF FILL AND THAT THE TOTAL AREA TO BE DISTURBED AS SHOWN ON THESE PLANS HAS BEEN DETERMINED TO BE 151,693 SQUARE FEET.
12/13/2024 DATE
GLENN 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.
11/23/2022 DATE
MARICELA CORDOVA ACTING CHIEF, DIVISION OF TRANSPORTATION ENGINEERING

MONTGOMERY COUNTY DEPARTMENT OF TRANSPORTATION
100 EDISON PARK DRIVE, 4TH FLOOR
GAITHERSBURG, MD 20878
RECOMMENDED FOR APPROVAL
David M. Shoups Chief, Design Section
APPROVED
11/22/2022 DATE
11/23/2022 DATE
Chief, Division of Engineering Services
Designed by: N.D.K. Drawn by: S.A.T. Checked by: S.H.D. Project No.: C.I.P. PR. # 501744 SHEET 01 of 97

**PLAN SHEET TI-01
TITLE SHEET**
**MD 355 - CLARKSBURG
SHARED USE PATH**
SCALE: N.T.S. 12/2024

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 THE PERMITTEE/OWNER OF THIS SITE TO OBTAIN ALL REQUIRED PERMITS PRIOR TO ISSUANCE OF THE SEDIMENT CONTROL PERMIT

TYPE OF PERMIT	REQD	NOT REQD	PERMIT #	EXPIRATION DATE	WORK RESTRICTION DATES
MCPS Floodplain District		X	N/A		
WATERWAYS/WETLANDS:					MARCH 1 - JUNE 15
a. Corps of Engineers	X		2021-60768	03/14/2026 09/30/2026	MARCH 1 - JUNE 15
b. MDE	X		21-NT-3078	06/29/2026	MARCH 1 - JUNE 15
c. MDE Water Quality Certification		X	N/A	N/A	N/A
MDE Dam Safety		X	N/A	N/A	N/A
* DPS Roadside Trees Protection Plan	X		MR2020018	10/28/2022	Approval Date
** N.P.D.E.S. NOTICE OF INTENT	X				
FEMA LOMR (Required Post Construction)		X			
OTHERS:					
M-NCCPC - Construction		X			
MSHA Access Permit	X		#17-AP-MO-013-xx	TBD	N/A
DNR - Roadside Tree Permit		X			
Sediment Control	X		286581	06/14/2025	N/A
Stormwater Management	X		283643	06/14/2025	N/A

*A copy of the approved Roadside Trees Protection Plan must be delivered to the Sediment Control Inspector at the Preconstruction meeting.

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. 50-286581 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.
12/13/2024 DATE
ROBERT J. HUDSON ENGINEER'S SIGNATURE
ROBERT J. HUDSON PRINTED NAME

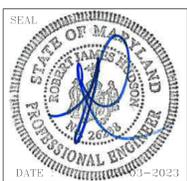
DPS approval of a sediment control or stormwater management plan is for demonstrated compliance with minimum environmental runoff treatment standards and does not create or imply any right to divert or concentrate runoff onto any adjacent property without that property owner's permission. It does not 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.

286581
SEDIMENT CONTROL PERMIT NO.
283643
SM. FILE NO.
STORMWATER MANAGEMENT:
PERMEABLE PAVEMENT, GRASS SWALE, OUTFALL REPAIR

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 A Limited Liability Partnership

MCDOT
Montgomery County Department of Transportation
100 EDISON PARK DR., 4TH FLOOR GAITHERSBURG, MD 20878
240-777-7224

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



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4	TS 01 OF 02	SC0004	TYPICAL SECTIONS
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FOR ALL CONSTRUCTION WITHIN THE STATE OF MD RIGHT-OF-WAY THE CONTRACTOR SHALL REFER TO THE SHA BOOK OF STANDARDS WHICH CAN BE ACCESSED AT: HTTP://APPS.ROADS.MARYLAND.GOV/BUSINESSWITHSHA/BIZSTDSPESCS/DESMANUALSTDPUB/PUBLICATIONSONLINE/OHD/BOOKSTD/INDEX/ASP.

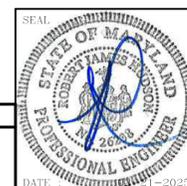
THE FOLLOWING LIST OF STANDARDS SHALL BE USED WITHIN THIS PROJECT: STD. NO.

MD 104.02-01	SHOULDER WORK /2-LANE, 2-WAY GREATER THAN 40 MPH
MD 104.02-02	SHOULDER WORK /2-LANE, 2-WAY EQL/LESS THAN 40 MPH
MD 104.02-03	LANE SHIFT RIGHT OR LEFT SIDE /2-LANE, 2-WAY GREATER THAN 40 MPH/15 MIN - 12 HRS. OR DAYTIME ONLY
MD 104.02-04	LANE SHIFT RIGHT OR LEFT SIDE /2-LANE, 2-WAY EQL/LESS THAN 40 MPH/15 MIN - 12 HRS. OR DAYTIME ONLY
MD 104.02-05	WORK IN CENTER OF LOW-VOLUME ROAD 2-LANE, 2-WAY GREATER THAN 40 MPH/15 MIN - 12 HRS. OR DAYTIME ONLY
MD 104.02-06	WORK IN CENTER OF LOW-VOLUME ROAD 2-LANE, 2-WAY EQL/LESS THAN 40 MPH/15 MIN - 12 HRS. OR DAYTIME ONLY
MD 104.02-07	LANE SHIFT OF COMPLETE TRAVEL WAY BLOCKAGE /2-LANE, 2-WAY GREATER THAN 40 MPH/15 MIN - 12 HRS. OR DAYTIME ONLY
MD 104.02-08	LANE SHIFT OF COMPLETE TRAVEL WAY BLOCKAGE /2-LANE, 2-WAY EQL/LESS THAN 40 MPH/15 MIN - 12 HRS. OR DAYTIME ONLY
MD 104.02-09	FLAGGING OPERATION /2-LANE, 2-WAY GREATER THAN 40 MPH
MD 104.02-10	FLAGGING OPERATION /2-LANE, 2-WAY EQL/LESS THAN 40 MPH
MD 104.02-14	INTERSECTION FLAGGING OPERATION 2-LANE, 2-WAY EQL/LESS THAN 40 MPH
MD 354.01	STANDARD TYPE C ENDWALL METAL OR CONCRETE ROUND PIPE
MD 362.01	STANDARD TYPE H ENDWALL METAL OR CONCRETE ROUND PIPE
MD 368.01	STANDARD CONCRETE END SECTION ROUND CONCRETE PIPE
MD 374.51	PRECAST OR CAST IN PLACE SQUARE AND RECTANGULAR COG INLETS 5', 10', 15' & 20'
MD 374.51-01	PRECAST OR CAST IN PLACE SQUARE AND RECTANGULAR COG INLETS 5', 10', 15' & 20'
MD 374.55	PRECAST CONCRETE INLET SLABS AND ADJUSTMENT COLLARS FOR COG AND COS INLETS
MD 374.61	PRECAST OR CAST IN PLACE SQUARE AND RECTANGULAR COS INLETS 5', 10', 15' & 20'
MD 374.61-01	PRECAST OR CAST IN PLACE SQUARE AND RECTANGULAR COS INLETS 5', 10', 15' & 20'
MD 374.68	PRECAST OR CAST-IN-PLACE COG/COS OPENING FOR 8" CURB 5' OR 10' ONLY
MD 378.03	STANDARD SINGLE OR DOUBLE OPENING TYPE K INLET OPEN-END GRATE NON-TRAFFIC AREAS
MD 383.00	48" SQUARE STANDARD SHALLOW MANHOLE
MD 384.05	72" DIAMETER PRECAST MANHOLE FOR 42" & 48" PIPES
MD 578.01	REPAIRING PAVEMENT OPENINGS FOR UTILITY TRENCHES NEW COMBINATION CURB AND GUTTER PLACEMENT ALONG EXISTING PAVEMENT
MD 580.03	DRIVEWAYS AND BIKE PATHS PAVEMENT SECTIONS
MD 580.08	STANDARD TYPES A & B CONCRETE CURB AND COMBINATION CONCRETE CURB & GUTTER
MD 620.02	DEPRESSED CURB FOR COMBINATION CURB AND GUTTER AND DEPRESSED CURB FOR SIDEWALK RAMPS
MD 620.03	STANDARD ENTRANCE CONSTRUCTION RESIDENTIAL & COMMERCIAL METHOD NO. 2
MD 630.02	MAILBOX PLACEMENT DETAILS
MD 635.01	SIDEWALK RAMPS PERPENDICULAR
MD 655.11	SIDEWALK RAMPS PARALLEL
MD 655.12	SIDEWALK RAMPS COMBINATION
MD 655.13	DETECTABLE WARNING SURFACES
MD 655.40	STANDARD STAIRWAYS
MD 657.00	METHODS OF GRADING SIDE SLOPES
MC 811.01	CHAIN LINK SAFETY FENCE-RETAINING WALLS AND BOX CULVERTS
SUP-FR(FN)-301	GENERAL NOTES
SUP-FR(FN)-302	TYPE III CHAIN LINK SAFETY FENCE-RETAINING WALLS AND BOX CULVERTS
REBAR-BL-101	BAR LAP DIMENSIONS FOR GRADE 60 REINFORCING STEEL IN MIX NO. 3 (3500 P.S.I.) CONCRETE
REBAR-DL-101	DEVELOPMENT LENGTH DIMENSIONS GRADE 60 REINFORCING STEEL IN MIX NO. 3 (3500 P.S.I.) CONCRETE
REBAR-BB-101	BAR BEND TYPES
REBAR-BB-102	REINFORCING STEEL HOOK TABLES AND DIAGRAMS
RW-301	RETAINING WALL AND WING WALL DRAINAGE SYSTEMS
RW-401	CONCRETE RETAINING WALL CONTRACTION AND EXPANSION JOINTS

NOTE: ALL ITEMS ARE TO BE CONSTRUCTED IN ACCORDANCE WITH THE CURRENT VERSION OF THE REFERENCED STANDARD AT THE TIME OF 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 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.
ROBERT J. HUDSON MD NO-26236 EXP-08/17/2025



NO.	REVISION	DATE	BY

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

RECOMMENDED FOR APPROVAL
FOR SIGNATURES SEE TITLE SHEET
Chief, Design Section Date

APPROVED
FOR SIGNATURES SEE TITLE SHEET
Chief, Division of Engineering Services Date

Designed by : N.D.K. Drawn by : S.A.T. Checked by : S.H.D.

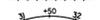
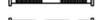
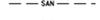
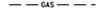
PLAN SHEET INDX-01
INDEX OF SHEETS
MD 355 - CLARKSBURG
SHARED USE PATH

SCALE: N.T.S. 02/2025
Project No. : C.I.P. PR. # 501744 SHEET 02 of 97

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 83/91 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. 776 TO 781.
- CONCRETE DESIGN: SERVICE LOAD DESIGN METHOD.
- REINFORCING STEEL DESIGN: (f_s=24,000 PSI)
- CONCRETE COMPRESSIVE STRENGTH FOR DESIGN SHALL BE f'_c=3000 psi. ALL CONCRETE SHALL BE MIX NO.2 f'_c=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	
ELECTRICAL HAND BOX - SIGNALS	
EXISTING GROUND LINE	
PROPOSED TRAFFIC BARRIER	
EXISTING TRAFFIC BARRIER	
FENCE LINE	
EXISTING RIGHT OF WAY LINE	
PROPOSED RIGHT OF WAY LINE	
EASEMENT	
PROPERTY LINE	
EXISTING ROADWAY	
RAILROAD	
BASE OR SURVEY LINE	
FIRE HYDRANT	
PROPOSED CULVERT	
EXISTING CULVERT	
EXISTING DROP INLET	
UTILITY POLE	
GUY WIRE	
EXISTING CURB & GUTTER	
WETLAND	
HEDGE	
WATER LINE	
SANITARY SEWER LINE	
GAS LINE	
OVERHEAD LINE	
SWM BORING/SOIL BORING TARGET	
TEST PIT LOCATION	
EXISTING SANITARY MANHOLE	
EXISTING STORM DRAIN MANHOLE	
WATERS OF U.S. (AND ID NUMBERS)	
STORMDRAIN STRUCTURE IDENTIFICATION	
DITCH FLOW LINE	
GRASS SWALE	

ABBREVIATIONS

ABUT	-	ABUTMENT	P 233	-	PARCEL
ACCT. NO.	-	ACCOUNT NUMBER	P/C	-	POINT OF CROWN
APPROX.	-	APPROXIMATE	P.C.	-	POINT OF CURVATURE
ASPH	-	ASPHALT SURFACE	P.C.C.	-	POINT OF COMPOUND CURVATURE
BK.	-	BACK	P/GE	-	PROFILE GRADE ELEVATION
BRG	-	BANK RUN GRAVEL	P.G.L.	-	PROFILE GRADE LINE
B	-	BASELINE	P/GL	-	PROFILE GROUND LINE
BSM	-	BED STABILITY MIX	PIE	-	PUBLIC IMPROVEMENT EASEMENT
BLVD	-	BOULEVARD	P.I.	-	POINT OF INTERSECTION
BRG.	-	BEARING, BORING	PROP.	-	PROPOSED
B.R.L.	-	BUILDING RESTRICTION LINE	P.S.I.	-	POUNDS PER SQUARE INCH
CATV	-	CABLE TV	P.S.F.	-	POUNDS PER SQUARE FOOT
CL	-	CENTERLINE	P.O.B.	-	POINT OF BEGINNING
CONC.	-	CONCRETE	P.O.E.	-	POINT OF ENDING
CMP	-	CORRUGATED METAL PIPE	P/R	-	POINT OF ROTATION
CORR.	-	CORRECTION (V.C.)	P.P.C.C.	-	PLAIN PORTLAND CEMENT CONCRETE
CSW	-	CONCRETE SIDEWALK	P.T.	-	POINT OF TANGENT
CSXT	-	CSX RAILROAD	PUE	-	PUBLIC UTILITY EASEMENT
C.Y.	-	CUBIC YARDS	P.V.C.	-	POINT OF VERTICAL CURVE
Dc	-	DEGREE OF CURVE	P.V.I.	-	POINT OF VERTICAL INTERSECTION
DELTA	-	CENTRAL ANGLE (CURVE DATA)	P.V.R.C.	-	POINT OF VERTICAL REVERSE CURVE
DEV	-	DEVELOPMENT	PVT.	-	PAVEMENT
DIA.	-	DIAMETER	P.V.T.	-	POINT OF VERTICAL TANGENCY
DI	-	EXISTING DRAIN INLET	R	-	RADIUS (CURVE DATA)
E	-	EXTERNAL DISTANCE (CURVE DATA)	R.C.P.	-	REINFORCED CONCRETE PIPE
EA.	-	EACH	RGC	-	RIFFLE GRADE CONTROL
E.B.R.	-	EAST BOUND ROADWAY	RT.	-	RIGHT
ELEV., EL	-	ELEVATION	R/W	-	RIGHT OF WAY
ECM	-	EROSION CONTROL MATTING	S.B.R.	-	SOUTH BOUND ROADWAY
EX., EXIST.	-	EXISTING	SDWK.	-	SIDEWALK
EXP.	-	EXPANSION	SC	-	STORMCEPTOR
F.S.	-	FAR SIDE	SD	-	STORM DRAIN
F/O	-	FIBER OPTIC	SBM	-	STREAM BED MATERIAL
F.215	-	FOLIO	SF	-	SQUARE FEET
HI	-	HIGH POINT	SHA	-	STATE HIGHWAY ADMINISTRATION
INV.	-	INVERT	S.Y.	-	SQUARE YARDS
L	-	LENGTH OF CURVE (CURVE DATA)	SPP	-	STRUCTURAL PLATE PIPE
LBS	-	POUNDS	STA.	-	STATION
L.F.	-	LINEAR FEET	STD.	-	STANDARD
LO	-	LOW POINT	SSD	-	STOPPING SIGHT DISTANCE
LT.	-	LEFT	SMH	-	SANITARY MANHOLE
L.5660	-	LIBER	SWM	-	STORM WATER MANAGEMENT
MAX.	-	MAXIMUM	SW-I	-	STORM WATER MANAGEMENT BORING
MC	-	MONTGOMERY COUNTY	T	-	TANGENT (CURVE DATA)
MD	-	MARYLAND	TB EW-31	-	TAX MAP
M.H., MH	-	MANHOLE	TBD	-	TO BE DETERMINED
MIN.	-	MINIMUM	TC	-	TOP OF CURB
MOD.	-	MODIFIED	TRANS	-	TRANSFORMER
MSE	-	MECHANICAL STABILIZED EARTH	TRAV	-	TRAVERSE POINT
N.B.R.	-	NORTH BOUND ROADWAY	TYP.	-	TYPICAL
N.D.C.	-	NOSE DOWN CURB	UG	-	UNDERGROUND
NO.	-	NUMBER	UTIL.	-	UTILITY STRUCTURE
NORM.	-	NORMAL	VC	-	VERTICAL CURVE
NRI	-	NATURAL RESOURCE INVENTORY	W	-	WATER LINE
FSD	-	FOREST STAND DELINEATION	W.B.R.	-	WEST BOUND ROADWAY
N.S.	-	NEAR SIDE	W.P.	-	WORKING POINT
NTS	-	NOT TO SCALE			

FIELD SURVEY NOTES

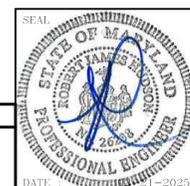
- TOPOGRAPHIC FIELD SURVEYS WERE PERFORMED BY WALLACE MONTGOMERY DECEMBER 19-21, 2016. SUPPLEMENTAL SURVEYS WERE PERFORMED JANUARY-MARCH 2017.
- GANNETT FLEMING TOPOGRAPHIC FIELD SURVEYS WERE PERFORMED BY MERCADO CONSULTANTS APRIL 2017.
- TOPOGRAPHIC INFORMATION SHOWN ALONG THE NORTHBOUND SIDE OF MD355 FROM STA. 500+10+ TO STA 502+10+ IS FROM CONSTRUCTION DRAWINGS DATED SEPTEMBER 2015 FOR THE CLARKSBURG CONNECTOR PROJECT AND MAY NOT REPRESENT CURRENT EXISTING CONDITIONS. CONSTRUCTION DRAWINGS DATED SEPTEMBER 2015 FOR THE CLARKSBURG CONNECTOR PROJECT PROVIDED BY MCDOT.

EXPLANATORY NOTES AND REFERENCES

SIGHT DISTANCES: STOPPING SITE DISTANCES FOR VERTICAL CREST CURVES ARE BASED ON A HEIGHT OF EYE OF 3.5' AND A HEIGHT OF OBJECT OF 2'-0".

PIPE CULVERTS: ALL PIPE LENGTHS AND LOCATIONS SHALL BE VERIFIED IN THE FIELD AND CHECKED BY THE ENGINEER BEFORE ORDERING.

INVERT ELEVATIONS: ALL INVERT ELEVATIONS HAVE BEEN CALCULATED WITH THE MOST RELIABLE DATA AVAILABLE. FIELD CHANGES WILL BE AT THE DIRECTION OF THE ENGINEER.



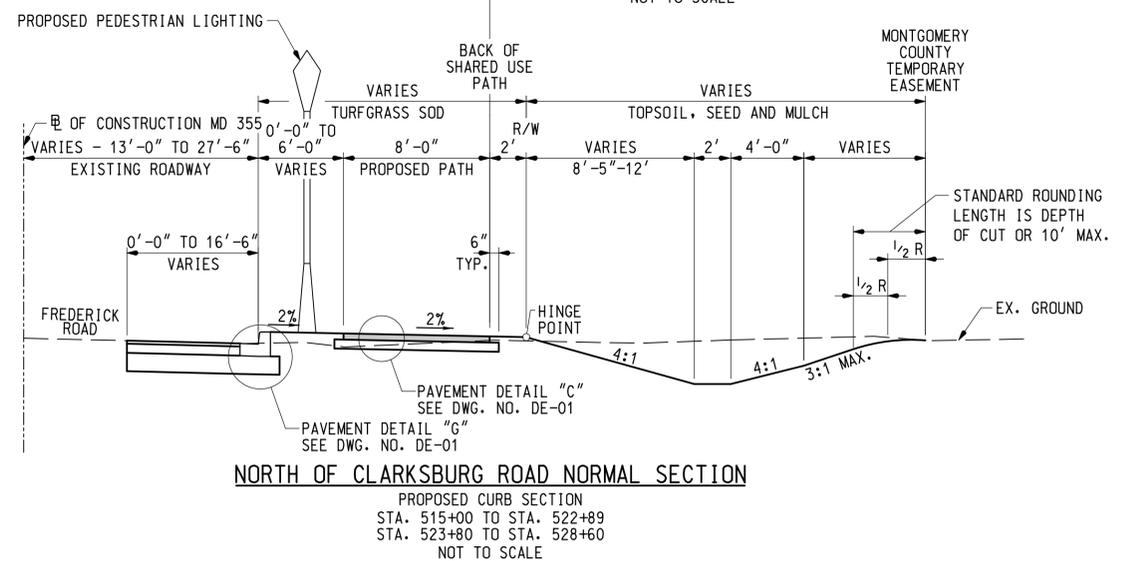
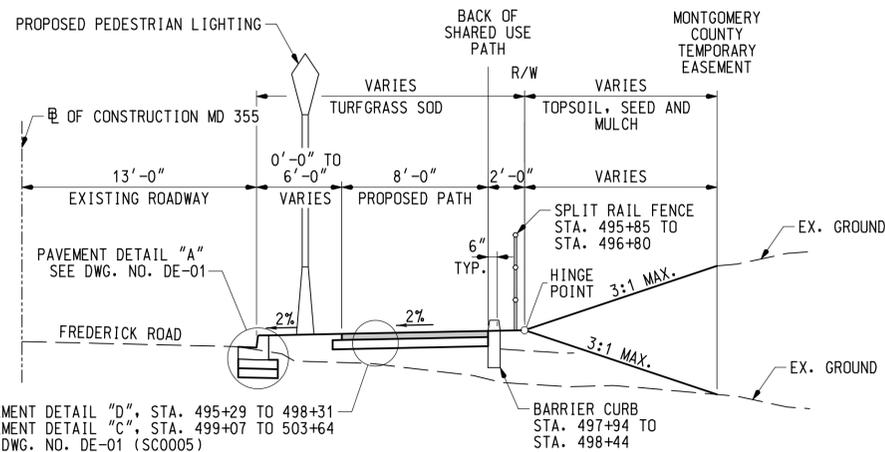
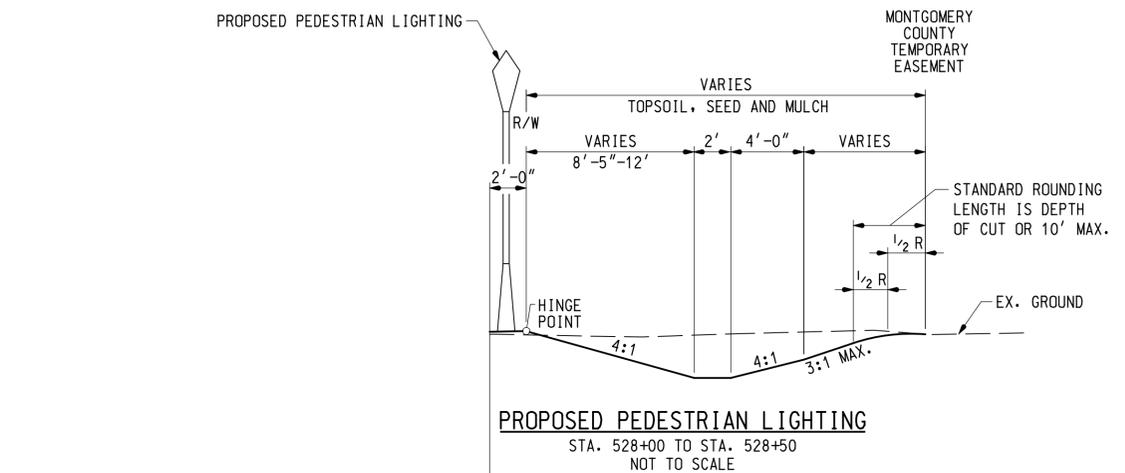
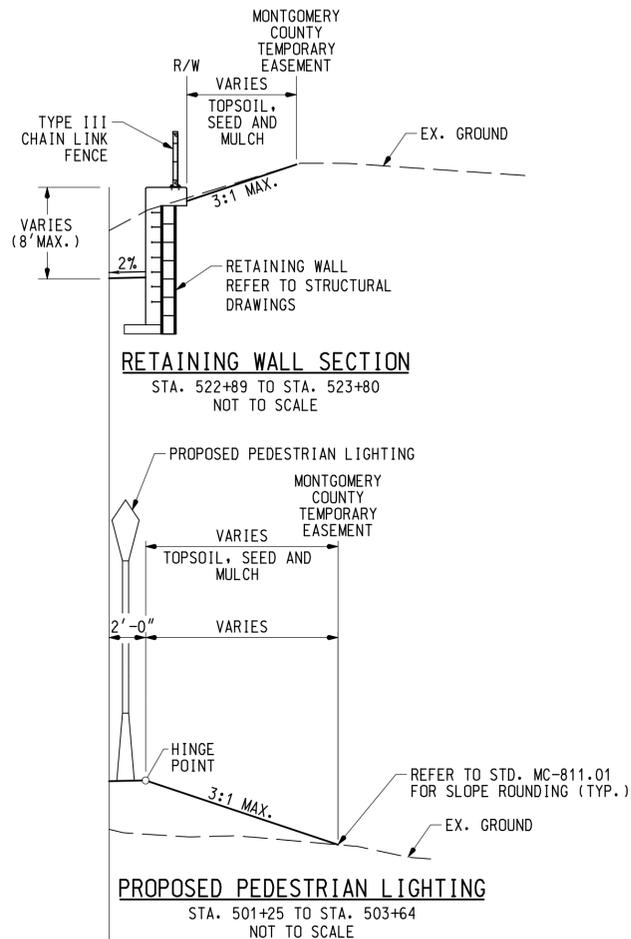
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I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND.			
ROBERT J. HUDSON	MD	NO-26230	EXP-08/17/2025

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	
FOR SIGNATURES SEE TITLE SHEET	Date
Chief, Design Section	
APPROVED	
FOR SIGNATURES SEE TITLE SHEET	Date
Chief, Division of Engineering Services	
Designed by : N.D.K.	Drawn by : S.A.T. Checked by : S.H.D.

PLAN SHEET GN-01 GENERAL NOTES AND DEFINITIONS MD 355 - CLARKSBURG SHARED USE PATH

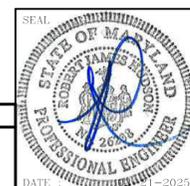
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WALLACE MONTGOMERY
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 Hunt Valley, Maryland 21030
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 www.wallacemontgomery.com A Limited Liability Partnership

SOUTH OF CLARKSBURG ROAD NORMAL SECTION
 STA. 495+29 TO STA. 503+64
 STA. 522+89 TO STA. 523+80
 NOT TO SCALE

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 ROBERT J. HUDSON MD NO-26236 EXP-08/17/2025



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

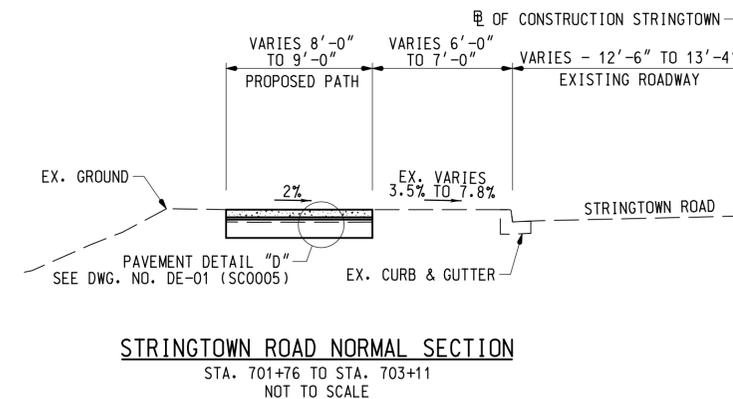
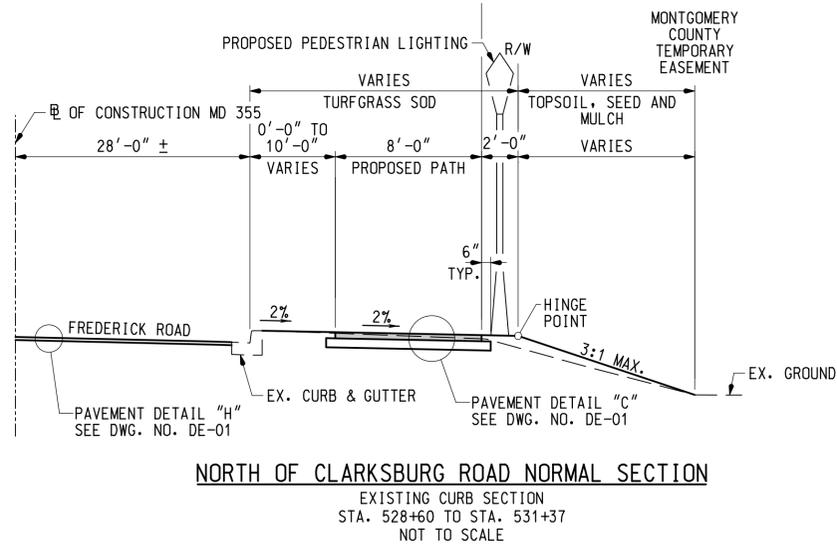
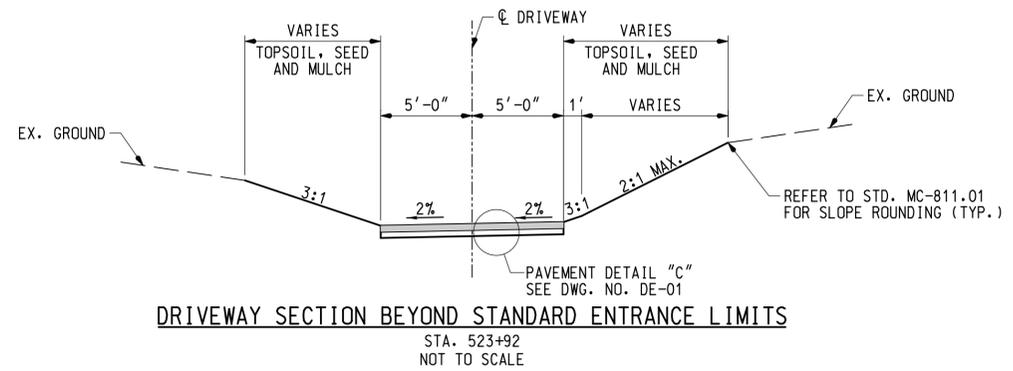
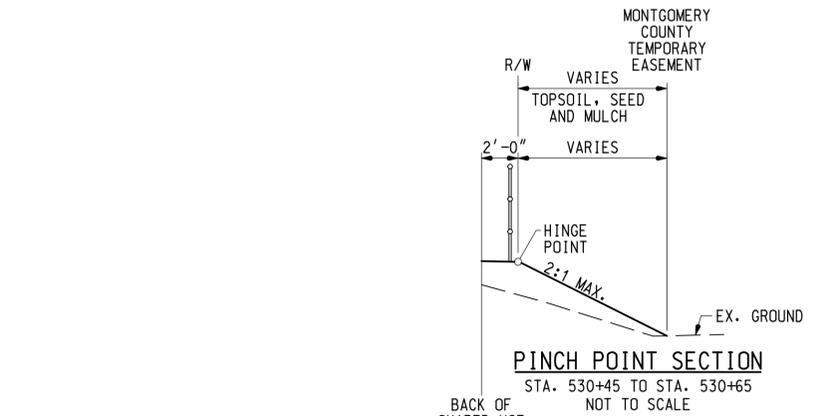
RECOMMENDED FOR APPROVAL
 FOR SIGNATURES SEE TITLE SHEET
 Chief, Design Section
 Date
 APPROVED
 FOR SIGNATURES SEE TITLE SHEET
 Chief, Division of Engineering Services
 Date
 Designed by : N.D.K. Drawn by : S.A.T. Checked by : S.H.D.

PLAN SHEET TS-01
TYPICAL SECTIONS
MD 355 - CLARKSBURG
SHARED USE PATH

SCALE: N.T.S. 02/2025
 Project No. : C.I.P. PR. # 501744 SHEET 04 of 97

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DPS FILE NO. SC0004 OF SC0047



WALLACE MONTGOMERY
 ENGINEERS-PLANNERS-SURVEYORS-CONSTRUCTION MANAGERS
 10150 York Road, Suite 200
 Hunt Valley, Maryland 21030
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 ROBERT J. HUDSON MD No-36238 EXP-08/17/2025



NO.	REVISION	DATE	BY

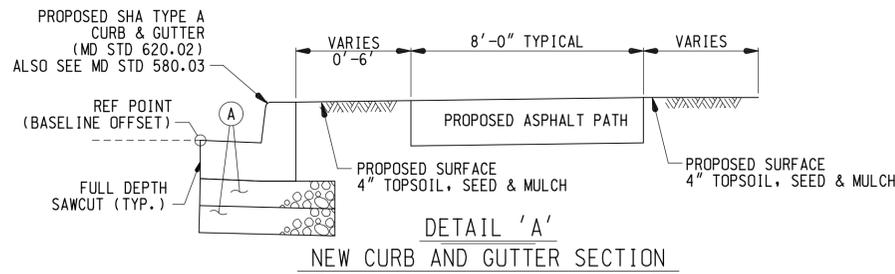
MONTGOMERY COUNTY DEPARTMENT OF TRANSPORTATION
 100 EDISON PARK DRIVE, 4TH FLOOR
 GAITHERSBURG, MD 20878

RECOMMENDED FOR APPROVAL
 FOR SIGNATURES SEE TITLE SHEET
 Chief, Design Section
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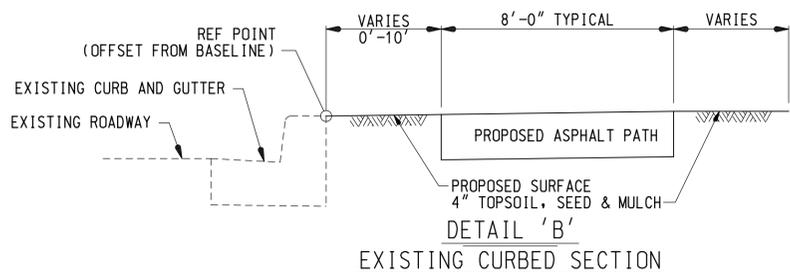
Dated by : N.D.K. Drawn by : S.A.T. Checked by : S.H.D.

**PLAN SHEET TS-02
 TYPICAL SECTIONS
 MD 355 - CLARKSBURG
 SHARED USE PATH**

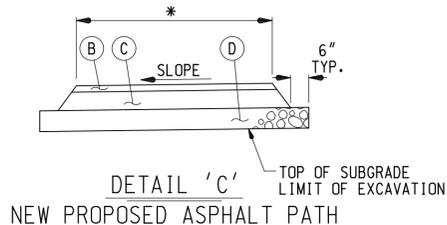
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 Project No. : C.I.P. PR. # 501744 SHEET 05 of 97



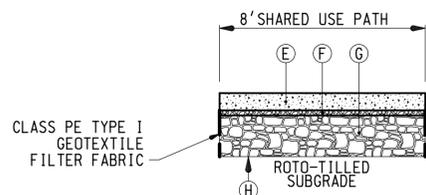
① 12" BASE COURSE USING GRADED AGGREGATE (2-6" LIFTS)
(INCIDENTAL TO C&G PAYMENT)



NOT TO SCALE



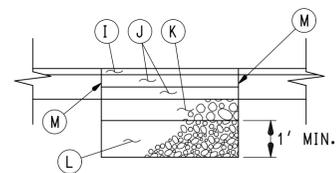
② 1.5" SUPERPAVE ASPHALT MIX 9.5mm SURFACE, PG 64S-22, L2
③ 2.5" SUPERPAVE ASPHALT MIX 19.0mm BASE, PG 64S-22, L2
④ 4.0" GRADED AGGREGATE BASE COURSE
REFER TO PLANS FOR DIMENSIONS
SEE MD STD 580.08 FOR ADDITIONAL INFORMATION



⑤ 5.0" PERVIOUS CONCRETE SIDEWALK
⑥ 1.5" AASHTO NO. 8 CHOKER STONE COURSE
⑦ 12.0" WASHED AASHTO NO. 2 AGGREGATE RESERVOIR
⑧ 4.0" GRADED AGGREGATE BASE COURSE
⑨ LIMITS OF EXCAVATION (NO GEOTEXTILE)
ROTO-TILL SUBGRADE PRIOR TO INSTALLATION

PERVIOUS CONCRETE SIDEWALK NOTES:

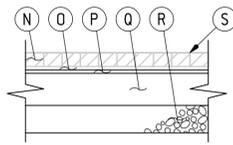
- CONTRACTOR SHALL INSTALL PERVIOUS CONCRETE SIDEWALK PER SPECIFICATIONS.
- REFER TO SECTION 902 OF MDOT SHA STANDARD SPECIFICATIONS, JULY 2024 OR LATEST VERSION, FOR PERVIOUS CONCRETE.
- SUBGRADE MUST BE LEVEL. ROTO-TILL SUBGRADE PRIOR TO INSTALLATION. INSTALL STEPS AS NEEDED TO MAINTAIN MINIMUM 6 INCHES OF AGGREGATE.
- CONSTRUCTION SPECIFICATIONS SHALL MEET MDE STORMWATER DESIGN MANUAL APPENDIX B-4.
- SEE SHEET SW-01 (SC0047) FOR 4" PVC OVERDRAIN TYPICAL PROFILES



REPAIRING PAVEMENT OPENINGS FOR UTILITY TRENCHES

NOT TO SCALE

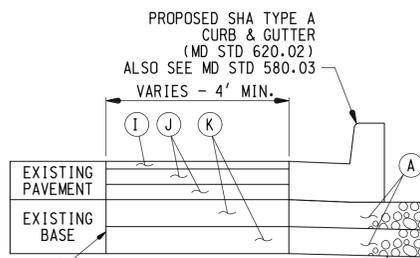
① 2.0" SUPERPAVE ASPHALT MIX 9.5mm SURFACE, PG 64S-22, L2
② 4.0" SUPERPAVE ASPHALT MIX 19.0mm BASE, PG 64S-22, L2
③ 6.0" GRADED AGGREGATE BASE COURSE
④ NO. 57 AGGREGATE
⑤ FULL DEPTH SAWCUT (TYP.)



VEHICULAR BRICK PAVER FOR ENTRANCE AT STA. 498+69

NOT TO SCALE

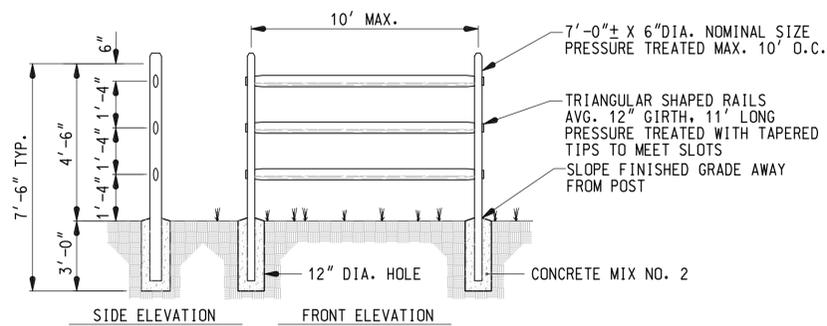
⑥ 4" x 8" x 2 1/4" MIN. BRICK PAVERS WITH HAND TIGHT JOINTS AND 3:1 SAND CEMENT SWEEP
⑦ ADHESIVE COAT - NEOPRENE MODIFIED ASPHALT PRIMECOAT - LOW VISCOSITY LIQUID ASPHALT
⑧ 3/4" BITUMINOUS SETTING BED (ADJUST THICKNESS IF PAVER THICKNESS VARIES)
⑨ 7" POURED CONCRETE BASE, 3500 PSI, 6" x 6" x 2.1x2.1 WELDED WIRE CONTINUOUS WITHIN SLAB
⑩ 6.0" DENSE GRADED AGGREGATE BASE COURSE
⑪ FINISH GRADE OF PAVEMENT



SHA TYPICAL PAVEMENT

NOT TO SCALE

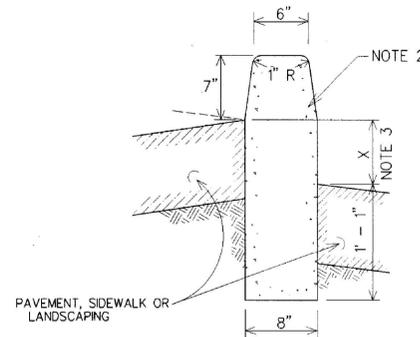
⑫ 12" BASE COURSE USING GRADED AGGREGATE (2-6" LIFTS)
(INCIDENTAL TO C&G PAYMENT)
⑬ 2.0" SUPERPAVE ASPHALT MIX 9.5mm SURFACE, PG 64S-22, L2
⑭ 4.0" SUPERPAVE ASPHALT MIX 19.0mm BASE, PG 64S-22, L2
⑮ 6.0" GRADED AGGREGATE BASE COURSE
⑯ FULL DEPTH SAWCUT (TYP.)
⑰ TOP OF SUBGRADE AND LIMIT OF EXCAVATION



SPLIT RAIL FENCE DETAIL

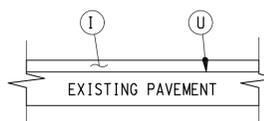
NOT TO SCALE

NOTE: CONCRETE FOOTING IS INCIDENTAL TO THE PAY ITEM OF "SPLIT RAIL FENCE".



BARRIER CURB DETAIL

NOT TO SCALE



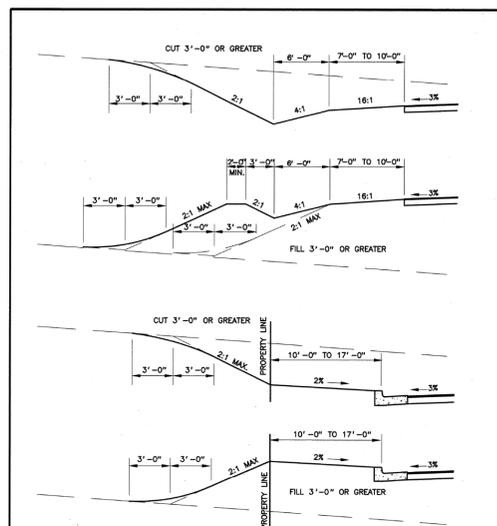
SHA FINE MILLING AND OVERLAY

NOT TO SCALE

⑰ 2.0" SUPERPAVE ASPHALT MIX 9.5mm FOR SURFACE, PG 64S-22, L2
⑱ TOP OF EXISTING PAVEMENT AFTER 2.0" FINE MILLING

DETAIL 'F' NOTES

- PAVERS SHALL BE WATSONTOWN "GARDEN BLEND" OR APPROVED EQUAL, CLASS SX, TYPE 1, HAVE A COMPRESSIVE STRENGTH OF 10,000 PSI FOR ANY FIVE BLOCK TESTED, SHALL BE CAPABLE OF WITHSTANDING A MIN. OF 100 FREEZE-THAW CYCLES, HAVE AN AVERAGE WATER ABSORPTION RATE OF 4% OR LESS, AND SHALL CONFORM TO ASTM DESIGNATION OF C-902. THE BITUMINOUS SETTING SHALL CONSIST OF HOT MIX ASPHALT SUPERPAVE 4.75 MM FOR SURFACE PG58-28 CONFORMING TO AASHTO DESIGNATION M-320.
- A TACK COAT OF 2% NEOPRENE-MODIFIED ASPHALT ADHESIVE SHALL BE USED.
- JOINT FILLER SHALL BE ONE PART PORTLAND CEMENT MIXED WITH THREE PARTS SAND.
- THE 28 DAY COMPRESSIVE STRENGTH FOR THE CONCRETE SUBBASE SHALL BE 3500 PSI.
- PROVIDE 1/2" EXPANSION JOINT WHERE BRICK ABUTS A RIGID STRUCTURE.
- REFER TO MARYLAND SHA SPECIFICATIONS FOR MATERIALS AND METHODS OF CONSTRUCTION.

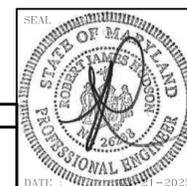


GENERAL NOTES
1. ALL FILL SLOPES SHALL BE CONSTRUCTED TO PROVIDE A MAXIMUM SLOPE OF 2:1 AND SHALL CONFORM TO THE TYPICAL SECTION AS SPECIFIED IN THE APPLICABLE ROADWAY STANDARDS.
2. THE SIDE DITCH IN FILL SLOPES OF OPEN SECTION ROADWAYS MAY BE ELIMINATED IN AREAS NOT MASTER PLANNED FOR DEVELOPMENT ONLY AFTER OVERLAND FLOW PATH AND EROSION POTENTIAL ARE CONSIDERED.

APPROVED	JAN 5 2025	DATE	REVISOR	REVISION	MONTGOMERY COUNTY DEPARTMENT OF TRANSPORTATION
					METHODS OF GRADING SIDE SLOPES
					STANDARD NO. MC-811.01



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.
ROBERT J. HUDSON MD NO-36238 EXP-08/17/2025



DATUM: NAD 83/91 HORIZONTAL
NAVD 88 VERTICAL

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

RECOMMENDED FOR APPROVAL
FOR SIGNATURES SEE TITLE SHEET
Chief, Design Section
APPROVED
FOR SIGNATURES SEE TITLE SHEET
Chief, Division of Engineering Services

**PLAN SHEET DE-01
PAVEMENT DETAILS
MD 355 - CLARKSBURG
SHARED USE PATH**

SCALE: N.T.S. 02/2025
Project No.: C.I.P. PR. # 501744 SHEET 06 of 97

PLAN SHEET	BASELINE STATION	EASTBOUND ROADWAY BACK OF CURB OFFSET	EASTBOUND ROADWAY BACK OF CURB ELEVATION	REMARKS
PS-01	495+29.11	21.33' RT.	661.41	
PS-01	495+47.30	15.01' RT.	660.85	
PS-01	495+50.00	14.25' RT.	660.73	
PS-01	495+55.28	13.67' RT.	660.61	
PS-01	495+75.00	13.67' RT.	659.59	
PS-01	496+00.00	13.67' RT.	659.27	
PS-01	496+25.00	13.67' RT.	658.54	
PS-01	496+50.00	13.67' RT.	657.88	
PS-01	496+75.00	13.67' RT.	657.43	
PS-01	497+00.00	13.67' RT.	657.28	
PS-01	497+25.00	13.67' RT.	657.35	
PS-01	497+50.00	13.67' RT.	657.51	
PS-01	497+75.00	13.67' RT.	657.76	
PS-01	498+00.00	13.67' RT.	658.06	

PLAN SHEET	BASELINE STATION	EASTBOUND ROADWAY BACK OF CURB OFFSET	EASTBOUND ROADWAY BACK OF CURB ELEVATION	REMARKS
PS-05	519+00.00	13.67' RT.	653.33	
PS-05	519+25.00	13.67' RT.	653.54	
PS-05	519+50.00	13.67' RT.	653.79	
PS-05	519+75.00	13.67' RT.	654.16	
PS-05	520+00.00	13.67' RT.	654.53	
PS-05	520+25.00	13.67' RT.	654.54	
PS-05	520+50.00	13.67' RT.	655.44	
PS-05	520+75.00	13.67' RT.	655.91	
PS-05	521+00.00	13.67' RT.	656.48	
PS-05	521+25.00	13.67' RT.	657.06	
PS-05	521+50.00	13.67' RT.	657.60	
PS-05	521+75.00	13.67' RT.	658.02	
PS-05	521+89.64	13.67' RT.	658.24	
PS-05	522+00.00	13.67' RT.	658.39	
PS-05	522+06.46	13.67' RT.	658.45	HIGH POINT
PS-05	522+25.00	13.67' RT.	658.45	
PS-05	522+50.00	13.67' RT.	658.26	
PS-05	522+75.00	13.67' RT.	657.44	
PS-05	522+96.54	13.67' RT.	657.34	MIDPOINT OF CURVE
PS-05	523+00.00	13.67' RT.	657.23	
PS-05	523+25.00	13.67' RT.	656.19	
PS-05	523+50.00	13.67' RT.	654.85	

PLAN SHEET	BASELINE STATION	EASTBOUND ROADWAY BACK OF SHARED USE PATH OFFSET	EASTBOUND ROADWAY BACK OF SHARED USE PATH ELEVATION	REMARKS
PS-01	495+34.50	37.62' RT.	661.53	
PS-01	495+36.63	36.12' RT.	661.46	
PS-01	495+50.00	29.44' RT.	661.03	
PS-01	495+50.32	29.33' RT.	661.03	MIDPOINT OF CURVE
PS-01	495+65.42	27.00' RT.	660.57	
PS-01	495+69.10	27.00' RT.	660.46	
PS-01	495+73.79	27.26' RT.	660.32	MIDPOINT OF CURVE
PS-01	495+75.00	27.42' RT.	660.29	
PS-01	495+78.43	28.05' RT.	660.20	
PS-01	495+84.83	29.13' RT.	660.03	
PS-01	495+91.32	29.50' RT.	659.84	
PS-01	495+94.19	29.50' RT.	659.76	
PS-01	496+00.00	29.21' RT.	659.58	
PS-01	496+00.67	29.13' RT.	659.56	MIDPOINT OF CURVE
PS-01	496+07.08	28.05' RT.	659.35	
PS-01	496+11.71	27.26' RT.	659.20	MIDPOINT OF CURVE
PS-01	496+16.41	27.00' RT.	659.06	
PS-01	496+25.00	27.00' RT.	658.80	
PS-01	496+48.73	27.00' RT.	658.17	
PS-01	496+50.00	26.98' RT.	658.14	
PS-01	496+58.20	26.22' RT.	657.93	
PS-01	496+67.42	23.91' RT.	657.74	
PS-01	496+74.09	22.23' RT.	657.61	
PS-01	496+75.00	22.09' RT.	657.60	
PS-01	496+80.95	21.67' RT.	657.50	
PS-01	497+00.00	21.67' RT.	657.44	
PS-01	497+25.00	21.67' RT.	657.51	
PS-01	497+50.00	21.67' RT.	657.66	
PS-01	497+75.00	21.67' RT.	657.92	
PS-01	497+93.83	21.67' RT.	658.13	
PS-01	498+00.00	22.12' RT.	658.23	

PLAN SHEET	BASELINE STATION	EASTBOUND ROADWAY BACK OF SHARED USE PATH OFFSET	EASTBOUND ROADWAY BACK OF SHARED USE PATH ELEVATION	REMARKS
PS-03	501+81.78	26.00' RT.	662.00	
PS-03	501+90.73	26.00' RT.	662.19	
PS-03	501+88.94	44.00' RT.	664.20	
PS-03	501+88.94	41.02' RT.	663.99	
PS-03	501+93.34	30.40' RT.	662.88	MIDPOINT OF CURVE
PS-03	502+00.00	26.53' RT.	662.24	
PS-03	502+03.96	26.00' RT.	661.95	
PS-03	502+25.00	26.00' RT.	661.90	
PS-03	502+50.00	26.00' RT.	661.38	
PS-03	502+75.00	26.00' RT.	660.58	
PS-03	503+00.00	26.00' RT.	659.67	
PS-03	503+25.00	26.00' RT.	658.70	
PS-03	503+50.00	26.00' RT.	656.92	
PS-03	503+62.30	26.00' RT.	656.25	

PLAN SHEET	BASELINE STATION	EASTBOUND ROADWAY BACK OF SHARED USE PATH OFFSET	EASTBOUND ROADWAY BACK OF SHARED USE PATH ELEVATION	REMARKS
PS-06	523+50.00	24.00' RT.	655.07	
PS-06	523+75.00	24.00' RT.	653.70	
PS-06	523+80.32	24.00' RT.	653.05	
PS-06	523+86.13	24.27' RT.	652.74	MIDPOINT OF CURVE
PS-06	523+91.89	25.08' RT.	652.43	
PS-06	524+00.00	26.59' RT.	651.98	
PS-06	524+25.00	31.10' RT.	650.47	
PS-06	524+34.44	34.26' RT.	649.28	
PS-06	524+50.00	35.71' RT.	648.85	
PS-06	524+51.19	36.06' RT.	648.77	MIDPOINT OF CURVE
PS-06	524+58.67	38.78' RT.	648.26	
PS-06	524+75.00	44.37' RT.	647.16	
PS-06	524+79.54	45.42' RT.	646.86	MIDPOINT OF CURVE
PS-06	525+00.00	47.66' RT.	645.54	
PS-06	525+01.39	47.67' RT.	645.45	
PS-06	525+25.00	47.67' RT.	644.09	
PS-06	525+50.00	47.67' RT.	642.63	
PS-06	525+75.00	47.67' RT.	641.04	
PS-06	525+94.69	47.67' RT.	639.84	MIDPOINT OF CURVE
PS-06	526+00.00	47.67' RT.	639.52	
PS-06	526+25.00	47.67' RT.	637.95	
PS-06	526+50.00	47.67' RT.	636.45	
PS-06	526+75.00	47.67' RT.	634.95	
PS-06	526+87.99	47.67' RT.	634.18	
PS-06	527+00.00	47.67' RT.	633.66	
PS-06	527+25.00	47.67' RT.	632.61	
PS-06	527+50.00	47.67' RT.	631.79	
PS-06	527+75.00	47.67' RT.	631.02	
PS-06	527+88.85	47.67' RT.	630.61	
PS-06	527+95.30	47.36' RT.	630.43	MIDPOINT OF CURVE
PS-06	528+00.00	46.81' RT.	630.33	

PLAN SHEET	BASELINE STATION	EASTBOUND ROADWAY BACK OF CURB OFFSET	EASTBOUND ROADWAY BACK OF CURB ELEVATION	REMARKS
PS-02	498+00.00	13.67' RT.	658.06	
PS-02	498+25.00	13.67' RT.	658.44	
PS-02	498+33.76	13.67' RT.	658.57	
PS-02	498+50.00	19.88' RT.	658.47	
PS-02	498+50.97	20.79' RT.	658.49	MIDPOINT OF CURVE
PS-02	498+58.10	38.00' RT.	659.25	
PS-02	498+58.10	47.01' RT.	659.40	
PS-02	498+79.43	49.62' RT.	660.44	
PS-02	498+79.43	38.00' RT.	660.32	
PS-02	498+86.56	20.79' RT.	660.18	MIDPOINT OF CURVE
PS-02	499+00.00	13.96' RT.	660.15	
PS-02	499+03.76	13.67' RT.	660.03	
PS-02	499+25.00	13.67' RT.	660.52	
PS-02	499+50.00	13.67' RT.	661.13	
PS-02	499+75.00	13.67' RT.	661.68	
PS-02	500+00.00	13.67' RT.	661.75	
PS-02	500+25.00	13.67' RT.	662.77	
PS-02	500+50.00	13.67' RT.	663.42	
PS-02	500+75.00	13.67' RT.	663.70	
PS-02	501+00.00	13.67' RT.	663.59	
PS-02	501+25.00	13.67' RT.	663.33	
PS-02	501+26.93	13.67' RT.	663.30	
PS-02	501+44.14	20.80' RT.	663.66	MIDPOINT OF CURVE
PS-02	501+50.00	29.98' RT.	663.83	

PLAN SHEET	BASELINE STATION	EASTBOUND ROADWAY BACK OF CURB OFFSET	EASTBOUND ROADWAY BACK OF CURB ELEVATION	REMARKS
PS-06	523+50.00	13.67' RT.	654.85	
PS-06	523+75.00	13.67' RT.	653.54	
PS-06	524+00.00	13.67' RT.	652.24	
PS-06	524+03.43	13.67' RT.	652.06	
PS-06	524+25.00	17.56' RT.	650.84	
PS-06	524+50.00	21.83' RT.	649.35	
PS-06	524+74.96	25.86' RT.	647.79	
PS-06	524+96.16	28.34' RT.	646.40	MIDPOINT OF CURVE
PS-06	525+00.00	28.61' RT.	646.15	
PS-06	525+17.52	29.17' RT.	645.04	
PS-06	525+25.00	29.17' RT.	644.60	
PS-06	525+50.00	29.17' RT.	643.07	
PS-06	525+75.00	29.17' RT.	641.54	
PS-06	526+00.00	29.17' RT.	639.91	
PS-06	526+02.75	29.17' RT.	639.74	MIDPOINT OF CURVE
PS-06	526+25.00	29.17' RT.	638.46	
PS-06	526+50.00	29.17' RT.	637.02	
PS-06	526+75.00	29.17' RT.	635.60	
PS-06	526+87.99	29.17' RT.	634.88	
PS-06	527+00.00	29.17' RT.	634.29	
PS-06	527+10.04	29.17' RT.	633.83	
PS-06	527+15.04	28.84' RT.	633.60	MATCH EXISTING

PLAN SHEET	BASELINE STATION	EASTBOUND ROADWAY BACK OF SHARED USE PATH OFFSET	EASTBOUND ROADWAY BACK OF SHARED USE PATH ELEVATION	REMARKS
PS-02	498+00.00	22.12' RT.	658.23	
PS-02	498+01.31	22.34' RT.	658.26	MIDPOINT OF CURVE
PS-02	498+08.54	24.33' RT.	658.40	
PS-02	498+18.53	27.07' RT.	658.61	MIDPOINT OF CURVE
PS-02	498+25.00	27.87' RT.	658.72	
PS-02	498+28.86	28.00' RT.	658.78	
PS-02	498+32.22	28.00' RT.	658.83	
PS-02	498+36.06	27.87' RT.	658.89	MIDPOINT OF CURVE
PS-02	498+39.88	27.49' RT.	658.77	
PS-02	498+40.80	27.37' RT.	658.71	
PS-02	498+43.22	27.12' RT.	658.50	MIDPOINT OF CURVE
PS-02	498+46.36	27.00' RT.	658.40	
PS-02	498+50.00	27.00' RT.	658.48	
PS-02	498+55.47	27.00' RT.	658.59	

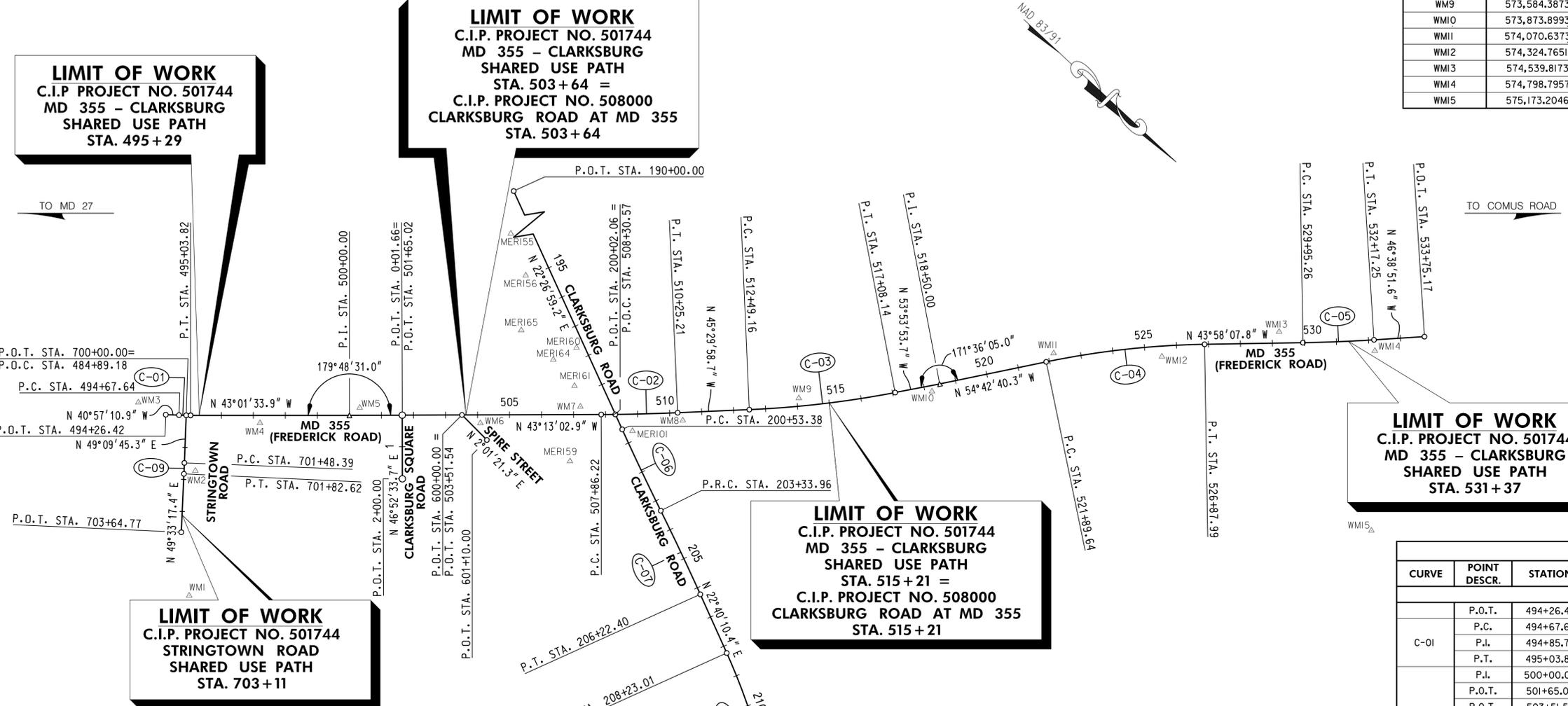
PLAN SHEET	BASELINE STATION	EASTBOUND ROADWAY BACK OF SHARED USE PATH OFFSET	EASTBOUND ROADWAY BACK OF SHARED USE PATH ELEVATION	REMARKS
PS-04	515+29.32	25.32' RT.	663.09	
PS-04	515+42.07	23.90' RT.	662.44	MIDPOINT OF CURVE
PS-04	515+50.00	24.45' RT.	662.01	
PS-04	515+54.83	25.32' RT.	661.76	
PS-04	515+62.30	26.58' RT.	661.38	MIDPOINT OF CURVE
PS-04	515+69.87	27.00' RT.	661.02	
PS-04	515+75.00	27.00' RT.	660.78	
PS-04	516+00.00	27.00' RT.	659.75	
PS-04	516+25.00	27.00' RT.	658.72	MIDPOINT OF CURVE
PS-04	516+39.01	27.00' RT.	658.16	
PS-04	516+50.00	27.00' RT.	657.71	
PS-04	516+75.00	27.00' RT.	656.82	
PS-04	517+00.00	27.00' RT.	655.96	
PS-04	517+08.15	27.00' RT.	655.72	
PS-04	517+25.00	27.00' RT.	655.20	
PS-04	517+50.00	27.00' RT.	654.49	
PS-04	517+75.00	27.00' RT.	653.96	
PS-04	518+00.00	27.00' RT.	653.56	
PS-04	518+25.00	27.00' RT.	653.27	
PS-04	518+50.00	27.00' RT.	653.08	
PS-04	518+75.00	27.00' RT.	652.97	
PS-04	519+00.00	27.00' RT.	653.07	

PLAN SHEET	BASELINE STATION	EASTBOUND ROADWAY BACK OF SHARED USE PATH OFFSET	EASTBOUND ROADWAY BACK OF SHARED USE PATH ELEVATION	REMARKS
PS-07	528+00.00	46.81' RT.	630.33	
PS-07	528+01.68	46.44' RT.	630.29	
PS-07	528+25.00	41.96' RT.	629.80	
PS-07	528+45.04	38.11' RT.	629.46	
PS-07	528+50.00	37.16' RT.	629.39	
PS-07	528+50.61	37.04' RT.	629.39	
PS-07</				

CURVE DATA								
CURVE	BASELINE	DELTA	Dc	RADIUS	TANGENT	LENGTH	CHORD	EXTERNAL
C-01	MD 355 (FREDERICK ROAD)	02°04'23.0" LT.	05°43'55.1"	1,000.00'	18.09'	36.18'	36.18'	0.16'
C-02	MD 355 (FREDERICK ROAD)	02°16'55.8" LT.	00°57'17.8"	6,000.00'	119.51'	238.99'	238.97'	1.19'
C-03	MD 355 (FREDERICK ROAD)	08°23'55.0" LT.	01°49'47.7"	3,131.21'	229.90'	458.98'	458.57'	8.43'
C-04	MD 355 (FREDERICK ROAD)	10°44'32.5" RT.	02°09'20.6"	2,658.00'	249.91'	498.35'	497.62'	11.72'
C-05	MD 355 (FREDERICK ROAD)	02°40'43.8" LT.	01°12'24.3"	4,748.00'	111.02'	221.99'	221.97'	1.30'
C-06	CLARKSBURG ROAD	01°50'45.7" LT.	00°39'28.6"	8,708.41'	140.30'	280.58'	280.57'	1.13'
C-07	CLARKSBURG ROAD	02°03'56.9" RT.	00°42'58.3"	8,000.00'	144.24'	288.44'	288.43'	1.30'
C-08	CLARKSBURG ROAD	11°28'50.3" RT.	02°56'58.6"	1,942.49'	195.27'	389.23'	388.58'	9.79'
C-09	STRINGTOWN ROAD	00°23'32.1" RT.	01°08'45.3"	5,000.00'	17.12'	34.23'	34.23'	0.03'

MERCADO CONTROL TRAVERSE				
POINT NO.	COORDINATES		ELEVATION	DESCRIPTION
	NORTH	EAST		
MER101	573,234.1295	1,232,692.8439	640.58	MAG NAIL
MER155	572,576.9404	1,212,502.4391	627.96	REBAR & CAP
MER156	572,699.6047	1,232,565.9920	633.02	REBAR & CAP
MER159	573,195.9319	1,232,895.0696	651.80	REBAR & CAP
MER160	572,969.3747	1,232,622.4062	638.49	MAG NAIL
MER161	573,045.9194	1,232,713.7816	635.25	REBAR & CAP
MER164	572,941.9113	1,232,699.0704	631.83	REBAR & CAP
MER165	572,806.1245	1,232,700.4816	627.63	REBAR & CAP

WALLACE MONTGOMERY CONTROL TRAVERSE				
POINT NO.	COORDINATES		ELEVATION	DESCRIPTION
	NORTH	EAST		
WMI	572,612.1750	1,234,012.7190	647.365	REBAR & CAP
WM2	572,360.6198	1,233,715.0813	656.216	REBAR & CAP
WM3	572,085.4874	1,233,681.0420	669.500	REBAR & CAP
WM4	572,406.9292	1,233,468.6510	655.793	REBAR & CAP
WM5	572,601.9950	1,233,221.1993	663.426	REBAR & CAP
WM6	572,910.5108	1,232,999.3619	656.127	REBAR & CAP
WM7	573,103.5557	1,232,748.6685	640.521	REBAR & CAP
WM8	573,366.8426	1,232,561.8287	647.495	REBAR & CAP
WM9	573,584.3873	1,232,263.7441	666.701	REBAR & CAP
WM10	573,873.8993	1,231,964.4479	652.919	MAG NAIL
WM11	574,070.6373	1,231,618.4007	658.264	REBAR & CAP
WM12	574,324.7651	1,231,395.1291	642.679	REBAR & CAP
WM13	574,539.8173	1,231,088.9347	626.893	REBAR & CAP
WM14	574,798.7957	1,230,928.3124	636.191	REBAR & CAP
WM15	575,173.2046	1,231,345.2351	657.911	REBAR & CAP



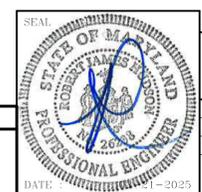
C OF ROADWAY					
CURVE	POINT DESCR.	STATION	COORDINATES		BEARING
			NORTH	EAST	
STRINGTOWN ROAD					
C-09	P.O.T.	700+00.00	572,222.0466	1,233,608.2946	N 49°09'45.3" E
	P.C.	701+48.39	572,319.0823	1,233,720.5632	
	P.I.	701+65.51	572,330.2745	1,233,733.5123	
	P.T.	701+82.62	572,341.3778	1,233,746.5379	
P.O.T.	703+64.77	572,459.5426	1,233,885.1594	N 49°33'17.4" E	
CLARKSBURG SQUARE ROAD					
	P.O.T.	0+01.66	572,715.0642	1,233,147.5017	N 46°52'33.7" E
	P.O.T.	2+00.00	572,850.6445	1,233,292.2645	
SPIRE STREET					
	P.O.T.	600+00.00	572,850.9939	1,233,019.7771	N 2°01'21.3" E
	P.O.T.	601+10.00	572,960.9253	1,233,023.6594	

C OF ROADWAY					
CURVE	POINT DESCR.	STATION	COORDINATES		BEARING
			NORTH	EAST	
CLARKSBURG ROAD					
C-06	P.O.T.	190+00.00	572,273.8601	1,232,308.9732	N 22°26'59.2" E
	P.O.T.	200+02.06	573,199.9788	1,232,691.6332	
	P.C.	200+53.38	573,247.4110	1,232,711.2315	
	P.I.	201+93.68	573,377.0795	1,232,764.8088	
	P.R.C.	203+33.96	573,508.4065	1,232,814.1812	
	P.I.	204+78.20	573,643.4176	1,232,864.9386	
	P.T.	206+22.40	573,776.5112	1,232,920.5298	
	P.C.	208+23.01	573,961.6211	1,232,997.8474	
C-07	P.I.	210+18.28	574,141.8028	1,233,073.1066	N 22°40'10.4" E
	P.T.	212+12.24	574,303.4002	1,233,182.7229	
C-08	P.I.	217+50.68	573,748.9952	1,233,484.9832	N 34°09'00.7" E
	P.C.	217+50.68	573,748.9952	1,233,484.9832	

C OF ROADWAY					
CURVE	POINT DESCR.	STATION	COORDINATES		BEARING
			NORTH	EAST	
MD 355 (FREDERICK ROAD)					
C-01	P.O.T.	494+26.42	572,174.0566	1,233,650.2792	N 40°57'10.9" W
	P.C.	494+67.64	572,205.1882	1,233,623.2616	
	P.I.	494+85.73	572,218.8527	1,233,611.4029	
	P.T.	495+03.82	572,232.0793	1,233,599.0577	
	P.I.	500+00.00	572,594.8068	1,233,260.4999	
C-02	P.O.T.	501+65.02	572,715.0642	1,233,147.5017	N 43°13'02.9" W
	P.O.T.	503+51.54	572,850.9939	1,233,019.7771	
	P.C.	507+86.22	573,167.7764	1,232,722.1166	
	P.O.C.	508+30.57	573,199.9788	1,232,691.6332	
	P.I.	509+05.73	573,254.8699	1,232,640.2803	
C-03	P.T.	510+25.21	573,338.6356	1,232,555.0408	N 45°29'58.7" W
	P.C.	512+49.16	573,495.6056	1,232,395.3090	
	P.I.	514+79.06	573,656.7479	1,232,231.3315	
C-04	P.T.	517+08.14	573,792.2117	1,232,045.5762	N 53°53'53.7" W
	P.I.	518+50.00	573,875.7952	1,231,930.9620	
	P.C.	521+89.64	574,072.0056	1,231,653.7294	
C-05	P.I.	524+39.55	574,216.3760	1,231,449.7432	N 54°42'40.3" W
	P.T.	526+87.99	574,396.2380	1,231,276.2415	
	P.C.	529+95.26	574,617.3863	1,231,062.9135	
C-05	P.I.	531+06.28	574,697.2867	1,230,985.8387	N 43°58'07.8" W
	P.T.	532+17.25	574,773.4974	1,230,905.1137	
	P.O.T.	533+75.17	574,881.9025	1,230,790.2873	

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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 FULLY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND.
ROBERT J. HUDSON MD No-36238 EXP-08/17/2025



SCALE: 1" = 200'

DATUM: NAD 83/91 HORIZONTAL
NAVD 88 VERTICAL

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

RECOMMENDED FOR APPROVAL
FOR SIGNATURES SEE TITLE SHEET
Chief, Design Section
APPROVED
FOR SIGNATURES SEE TITLE SHEET
Chief, Division of Engineering Services
Designed by: N.D.K. Drawn by: S.A.T. Checked by: S.H.D.

**PLAN SHEET GS-01
GEOMETRY LAYOUT
MD 355 - CLARKSBURG
SHARED USE PATH**

SCALE: 1" = 200' 02/2025
Project No.: C.I.P. PR. # 501744 SHEET 08 of 97

PLT08: 6/12/2025
FILE: M:\603\14013.0010\Highways\Cadd\pGS-P001-MD355.dgn

(C-01)
CURVE DATA
 DELTA = 2°04'23.0" LT.
 Dc = 5°43'55.1"
 R = 1,000.00'
 L = 36.18'
 T = 18.09'
 CH = 36.18'
 E = 0.16'

(C-09)
CURVE DATA
 DELTA = 0°23'32.1" RT.
 Dc = 1°08'45.3"
 R = 5,000.00'
 L = 34.23'
 T = 17.12'
 CH = 34.23'
 E = 0.03'

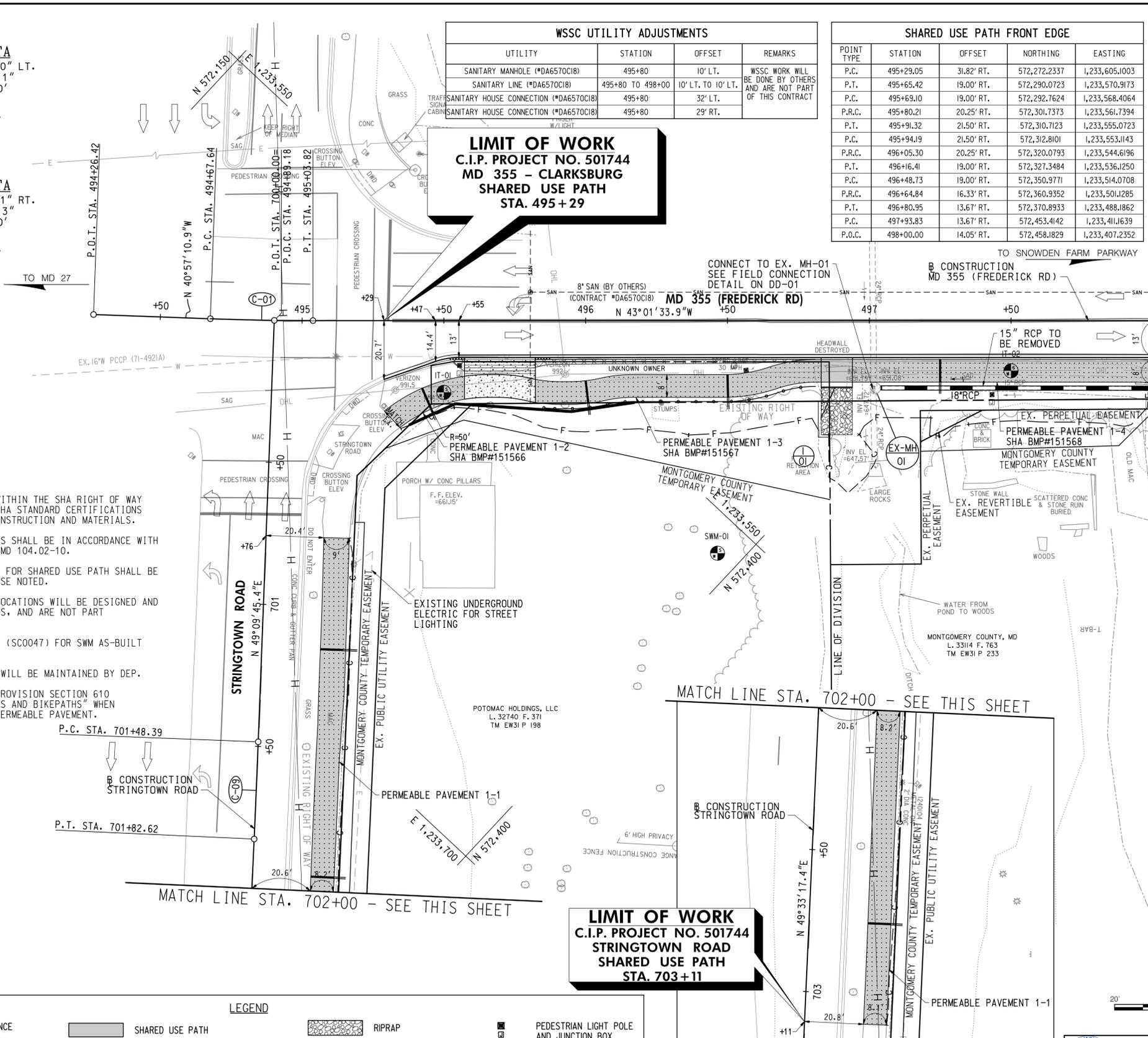
WSSC UTILITY ADJUSTMENTS				
UTILITY	STATION	OFFSET	REMARKS	
SANITARY MANHOLE (*DA6570C18)	495+80	10' LT.	WSSC WORK WILL BE DONE BY OTHERS AND ARE NOT PART OF THIS CONTRACT	
SANITARY LINE (*DA6570C18)	495+80 TO 498+00	10' LT. TO 10' LT.		
SANITARY HOUSE CONNECTION (*DA6570C18)	495+80	32' LT.		
SANITARY HOUSE CONNECTION (*DA6570C18)	495+80	29' RT.		

SHARED USE PATH FRONT EDGE				
POINT TYPE	STATION	OFFSET	NORTHING	EASTING
P.C.	495+29.05	31.82' RT.	572,272.2337	1,233,605.1003
P.T.	495+65.42	19.00' RT.	572,290.0723	1,233,570.9173
P.C.	495+69.10	19.00' RT.	572,292.7624	1,233,568.4064
P.R.C.	495+80.21	20.25' RT.	572,301.7373	1,233,561.7394
P.T.	495+91.32	21.50' RT.	572,310.7123	1,233,555.0723
P.C.	495+94.19	21.50' RT.	572,312.8101	1,233,553.1143
P.R.C.	496+05.30	20.25' RT.	572,320.0793	1,233,544.6196
P.T.	496+16.41	19.00' RT.	572,327.3484	1,233,536.1250
P.C.	496+48.73	19.00' RT.	572,350.9771	1,233,514.0708
P.R.C.	496+64.84	16.33' RT.	572,360.9352	1,233,501.1285
P.T.	496+80.95	13.67' RT.	572,370.8933	1,233,488.1862
P.C.	497+93.83	13.67' RT.	572,453.4142	1,233,411.6139
P.O.C.	498+00.00	14.05' RT.	572,458.1829	1,233,407.2352

LIMIT OF WORK
C.I.P. PROJECT NO. 501744
MD 355 - CLARKSBURG
SHARED USE PATH
STA. 495 + 29

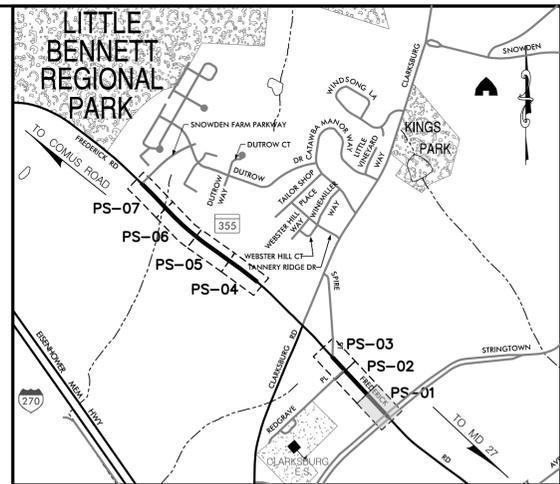
LIMIT OF WORK
C.I.P. PROJECT NO. 501744
STRINGTOWN ROAD
SHARED USE PATH
STA. 703 + 11

- GENERAL NOTES:**
- ALL CONSTRUCTION WITHIN THE SHA RIGHT OF WAY SHALL CONFORM TO SHA STANDARD CERTIFICATIONS AND DETAILS FOR CONSTRUCTION AND MATERIALS.
 - DAILY LANE CLOSURES SHALL BE IN ACCORDANCE WITH MD 104.02-01 THRU MD 104.02-10.
 - ALL INTERIOR RADII FOR SHARED USE PATH SHALL BE 60' UNLESS OTHERWISE NOTED.
 - SANITARY SEWER RELOCATIONS WILL BE DESIGNED AND INSTALLED BY OTHERS, AND ARE NOT PART OF THIS CONTRACT.
 - SEE DWG. NO. SW-01 (SC0047) FOR SWM AS-BUILT TABLES.
 - PERVIOUS PAVEMENT WILL BE MAINTAINED BY DEP.
 - REFER TO SPECIAL PROVISION SECTION 610 "PERVIOUS SIDEWALKS AND BIKEPATHS" WHEN CONSTRUCTING THE PERMEABLE PAVEMENT.



MATCH LINE STA. 498+00 - SEE DWG. NO. PS-02

MATCH LINE STA. 702+00 - SEE THIS SHEET



LOCATION MAP
 SCALE 1"=1000'

STANDARD TYPE A COMBINATION CURB AND GUTTER, 12 INCH GUTTER PAN, 8 INCH MIN. DEPTH (MD 620.02)
 272 L.F. MD 355 (FREDERICK ROAD) - STA. 495+29 TO STA. 498+00, RT.

SPLIT RAIL FENCE
 97 L.F. MD 355 (FREDERICK ROAD) - STA. 495+85 TO STA. 496+80, RT.

REMOVAL OF EXISTING PAVEMENT
 1 C.Y. MD 355 (FREDERICK ROAD) - STA. 495+53 TO STA. 495+57, RT.
 5 C.Y. MD 355 (FREDERICK ROAD) - STA. 495+82 TO STA. 496+81, RT.

REMOVAL OF EXISTING MASONRY
 1 C.Y. MD 355 (FREDERICK ROAD) - STA. 496+89, RT. (EXISTING HEADWALL)

CLASS I RIPRAP FOR SLOPE AND CHANNEL PROTECTION
 23 S.Y. MD 355 (FREDERICK ROAD) - STA. 496+89, RT.

BARRIER CURB (SEE DWG. NO. DE-01)
 6 L.F. MD 355 (FREDERICK ROAD) - STA. 497+94 TO STA. 498+00, RT.

4" OVERDRAINS (SEE DWG. NO. SW-01)
 13 L.F. MD 355 (FREDERICK ROAD) - STA. 495+42, RT.
 13 L.F. MD 355 (FREDERICK ROAD) - STA. 496+00, RT.
 13 L.F. MD 355 (FREDERICK ROAD) - STA. 496+50, RT.
 13 L.F. MD 355 (FREDERICK ROAD) - STA. 497+25, RT.
 13 L.F. MD 355 (FREDERICK ROAD) - STA. 498.00, RT.
 13 L.F. STRINGTOWN ROAD - STA. 701+15, LT.
 13 L.F. STRINGTOWN ROAD - STA. 701+95, LT.
 13 L.F. STRINGTOWN ROAD - STA. 702+75, LT.

8 INCH PORTLAND CEMENT CONCRETE PAVEMENT FOR DRIVEWAY MIX NO. 9 (MD 630.02)
 38 S.Y. MD 355 (FREDERICK ROAD) - STA. 495+57 TO STA. 495+82, RT.

REMOVAL OF EXISTING PIPE
 96 L.F. MD 355 (FREDERICK ROAD) - STA. 497+04 TO STA. 498+00, RT.

LEGEND

	SPLIT RAIL FENCE		SHARED USE PATH		RIPRAP
	TRAFFIC BARRIER		PERMEABLE PAVEMENT		TOP OF CUT
	CLARKSBURG HISTORIC DISTRICT BOUNDARY		FULL DEPTH PAVEMENT		TOE OF FILL
			FINE MILLING & ASPHALT RESURFACING		WETLAND
			CONCRETE DRIVEWAY		WETLAND BUFFER
			PAVEMENT REMOVAL		WATERS OF THE US
			DETECTABLE WARNING SURFACE		CONSTRUCTION
			VEHICULAR BRICK PAVER		

PEDESTRIAN LIGHT POLE AND JUNCTION BOX
BASE MOUNTED METEDED SERVICE PEDESTAL WITH PHOTOCELL
STORM DRAIN SYMBOLS
STD. MANHOLE
ENDWALL

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 ROBERT J. HUDSON MD No-36238 EXP-08/17/2025

DATUM: NAD 83/91 HORIZONTAL
 NAVD 88 VERTICAL

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

RECOMMENDED FOR APPROVAL
 FOR SIGNATURES SEE TITLE SHEET
 Chief, Design Section
 APPROVED
 FOR SIGNATURES SEE TITLE SHEET
 Chief, Division of Engineering Services

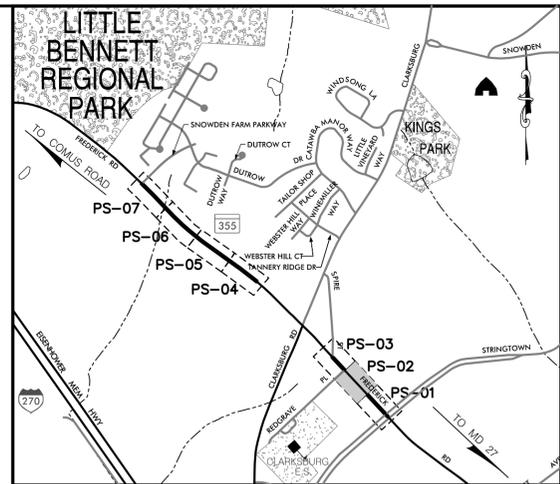
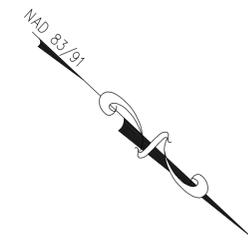
Designed by: N.D.K. Drawn by: S.A.T. Checked by: S.H.D.

PLAN SHEET PS-01
ROADWAY PLANS
MD 355 - CLARKSBURG
SHARED USE PATH
STA. 495+29 TO STA. 498+00
 SCALE: 1"=20' 02/2025
 Project No.: C.I.P. PR. # 501744 SHEET 09 of 97

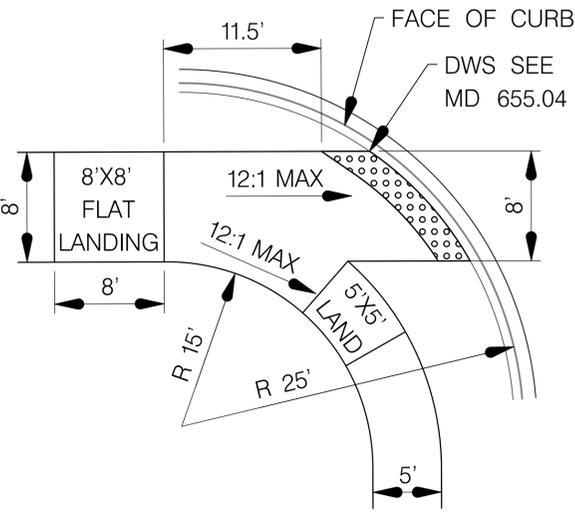
CLARKSBURG TAVERN'S ENTRANCE WORKING POINTS				
CONTROL POINT	STATION	OFFSET	NORTHING	EASTING
1	498+33.76	13.00' RT.	572,482.1489	1,233,383.4319
2	498+58.76	38.00' RT.	572,517.4833	1,233,384.6497
3	498+58.76	47.01' RT.	572,523.6301	1,233,391.2354
4	498+78.76	49.62' RT.	572,540.0332	1,233,379.4982
5	498+78.76	38.00' RT.	572,532.1042	1,233,371.0031
6	499+03.76	13.00' RT.	572,533.3220	1,233,335.6687

SHARED USE PATH FRONT EDGE				
POINT TYPE	STATION	OFFSET	NORTHING	EASTING
P.O.C.	498+00.00	14.05' RT.	572,458.1829	1,233,407.2352
P.R.C.	498+11.34	16.83' RT.	572,468.3763	1,233,401.5305
P.T.	498+28.86	20.00' RT.	572,483.3384	1,233,391.8970
P.C.	498+32.22	20.00' RT.	572,485.7967	1,233,389.6026
P.T.	498+38.83	19.56' RT.	572,490.3283	1,233,384.7730
P.C.	498+39.75	19.44' RT.	572,490.9178	1,233,384.0548
P.T.	498+45.51	19.01' RT.	572,494.8371	1,233,379.8064

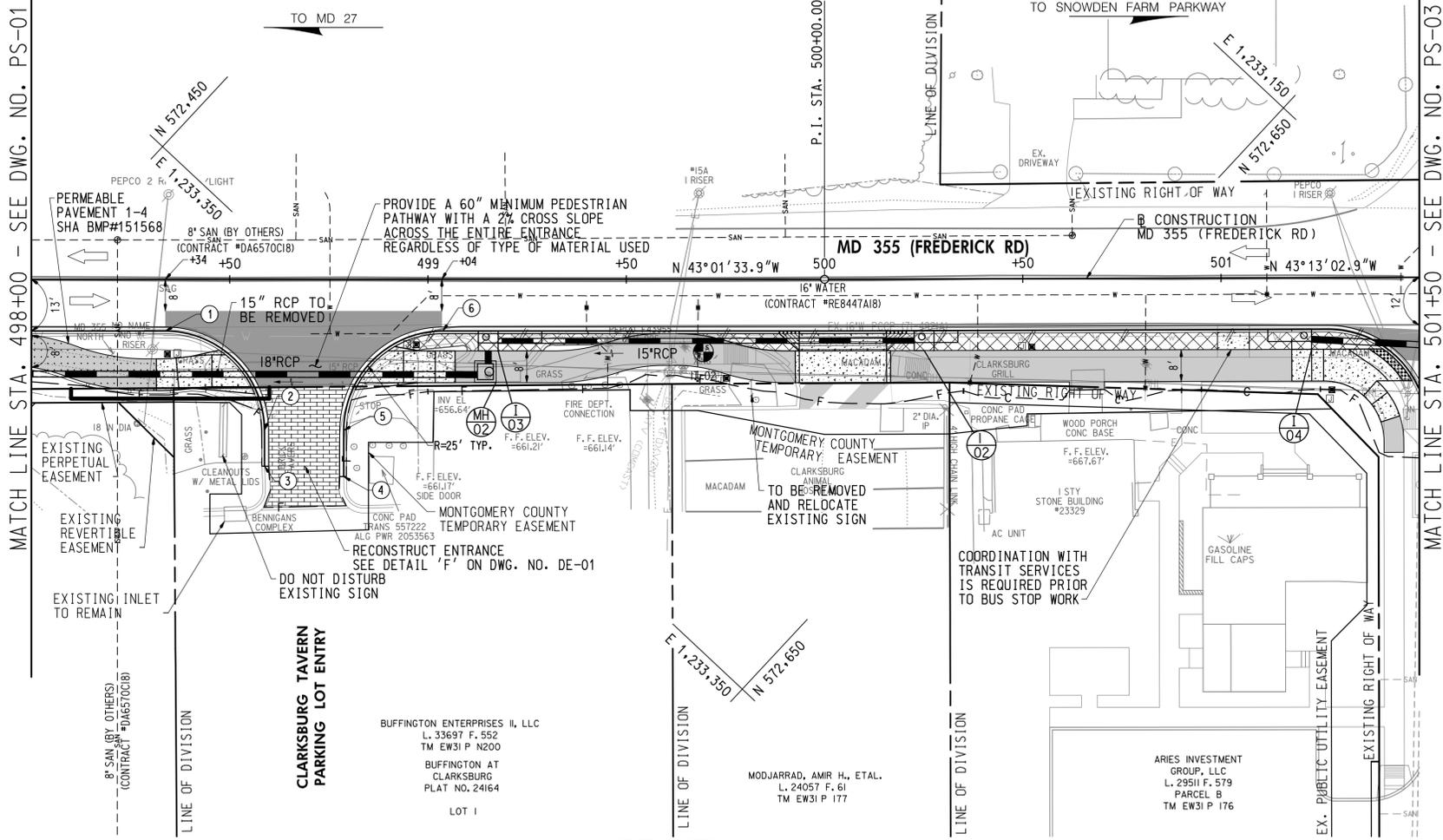
WSSC UTILITY ADJUSTMENTS				
UTILITY	STATION	OFFSET	REMARKS	
WATER LINE (*REB447A1B)	498+71 TO 501+50	14' RT. TO 4' RT.	WSSC WORK WILL BE DONE BY THIS CONTRACTOR	
WATER HOUSE CONNECTION (*REB447A1B)	498+74	22' LT.		
WATER VALVE (*REB447A1B)	499+40	7' RT.		
WATER HOUSE CONNECTION (*REB447A1B)	499+45	26' RT.		
WATER VALVE (*REB447A1B)	499+68	7' RT.		
FIRE HYDRANT (*REB447A1B)	499+68	25' RT.		
WATER HOUSE CONNECTION (*REB447A1B)	500+37	26' RT.		
CURB STOP (*REB447A1B)	500+80	28' RT.		
VENT BOX (*REB447A1B)	501+12	22' LT.		
SANITARY LINE (*DA6570C1B)	498+00 TO 500+63	10' LT. TO 11' LT.	WSSC WORK WILL BE DONE BY OTHERS AND ARE NOT PART OF THIS CONTRACT	
SANITARY MANHOLE (*DA6570C1B)	498+22	10' LT.		
SANITARY HOUSE CONNECTION (*DA6570C1B)	498+67	32' LT.		
SANITARY HOUSE CONNECTION (*DA6570C1B)	499+19	32' LT.		
SANITARY HOUSE CONNECTION (*DA6570C1B)	499+90	32' LT.		
SANITARY HOUSE CONNECTION (*DA6570C1B)	500+62	24' LT.		
SANITARY LINE (*DA6570C1B)	498+22 TO 498+22	10' LT. TO 175' RT.		
SANITARY MANHOLE (*DA6570C1B)	498+22	175' RT.		
SANITARY LINE (*DA6570C1B)	498+22 TO 498+71	175' RT. TO 175' RT.		



LOCATION MAP
SCALE 1"=1000'



RAMP DETAIL
STA 501+45, RT.



STANDARD TYPE A COMBINATION CURB AND GUTTER,
12 INCH GUTTER PAN, 8 INCH MIN. DEPTH (MD 620.02)

82 L.F. MD 355 (FREDERICK ROAD) - STA. 498+00 TO STA. 498+60, RT.
303 L.F. MD 355 (FREDERICK ROAD) - STA. 498+78 TO STA. 501+50, RT.

REMOVAL OF EXISTING PAVEMENT

7 C.Y. MD 355 (FREDERICK ROAD) - STA. 498+92 TO STA. 499+58, RT.
3 C.Y. MD 355 (FREDERICK ROAD) - STA. 499+65 TO STA. 499+94, RT.
13 C.Y. MD 355 (FREDERICK ROAD) - STA. 500+16 TO STA. 500+99, RT.
5 C.Y. MD 355 (FREDERICK ROAD) - STA. 501+07 TO STA. 501+41, RT.

DETECTABLE WARNING SURFACE FOR CURB
RAMPS (MD 655.40)

23 S.F. MD 355 (FREDERICK ROAD) - STA. 501+45, RT.

SIDEWALK RAMP CONSTRUCTION

MD 355 (FREDERICK ROAD) - STA. 498+53, RT. MD 655.11
MD 355 (FREDERICK ROAD) - STA. 498+86, RT. MD 655.11
MD 355 (FREDERICK ROAD) - STA. 501+45, RT. SEE DETAIL THIS SHEET

8 INCH PORTLAND CEMENT CONCRETE PAVEMENT
FOR DRIVEWAY MIX NO. 9 (MD 630.02)

32 S.Y. MD 355 (FREDERICK ROAD) - STA. 499+94 TO STA. 500+16, RT.

BARRIER CURB (SEE DWG. NO. DE-01)

44 L.F. MD 355 (FREDERICK ROAD) - STA. 498+00 TO STA. 498+44, RT.

VEHICULAR BRICK PAVERS

70 S.Y. MD 355 (FREDERICK ROAD) - STA. 498+58 TO STA. 498+80, RT.

REMOVAL OF EXISTING PIPE

108 L.F. MD 355 (FREDERICK ROAD) - STA. 498+00 TO STA. 499+08, RT.

- GENERAL NOTES:
- ALL CONSTRUCTION WITHIN THE SHA RIGHT OF WAY SHALL CONFORM TO SHA STANDARD CERTIFICATIONS AND DETAILS FOR CONSTRUCTION AND MATERIALS.
 - DAILY LANE CLOSURES SHALL BE IN ACCORDANCE WITH MD 104.02-01 THRU MD 104.02-10.
 - ALL INTERIOR RADII FOR SHARED USE PATH SHALL BE 60' UNLESS OTHERWISE NOTED.
 - SANITARY SEWER RELOCATIONS WILL BE DESIGNED AND INSTALLED BY OTHERS, AND ARE NOT PART OF THIS CONTRACT.
 - SEE DWG. NO. SW-01 (SC0047) FOR SWM AS-BUILT TABLES.
 - PERVIOUS PAVEMENT WILL BE MAINTAINED BY DEP.



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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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LEGEND

	SPLIT RAIL FENCE		SHARED USE PATH		RIPRAP
	TRAFFIC BARRIER		PERMEABLE PAVEMENT		TOP OF CUT
	CLARKSBURG HISTORIC DISTRICT BOUNDARY		FULL DEPTH PAVEMENT		TOE OF FILL
			FINE MILLING & ASPHALT RESURFACING		WETLAND
			CONCRETE DRIVEWAY		WETLAND BUFFER
			PAVEMENT REMOVAL		WATERS OF THE US
			DETECTABLE WARNING SURFACE		CONSTRUCTION
			VEHICULAR BRICK PAVER		

PEDESTRIAN LIGHT POLE AND JUNCTION BOX

BASE MOUNTED METERED SERVICE PEDESTAL WITH PHOTOCELL

PIPE INLET

END SECTION

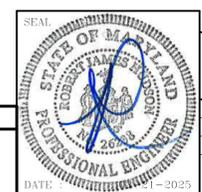
STD. MANHOLE

ENDWALL

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.

ROBERT J. HUDSON MD No-26238 EXP-08/17/2025



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

FOR SIGNATURES SEE TITLE SHEET

Chief, Design Section _____ Date _____

APPROVED

FOR SIGNATURES SEE TITLE SHEET

Chief, Division of Engineering Services _____ Date _____

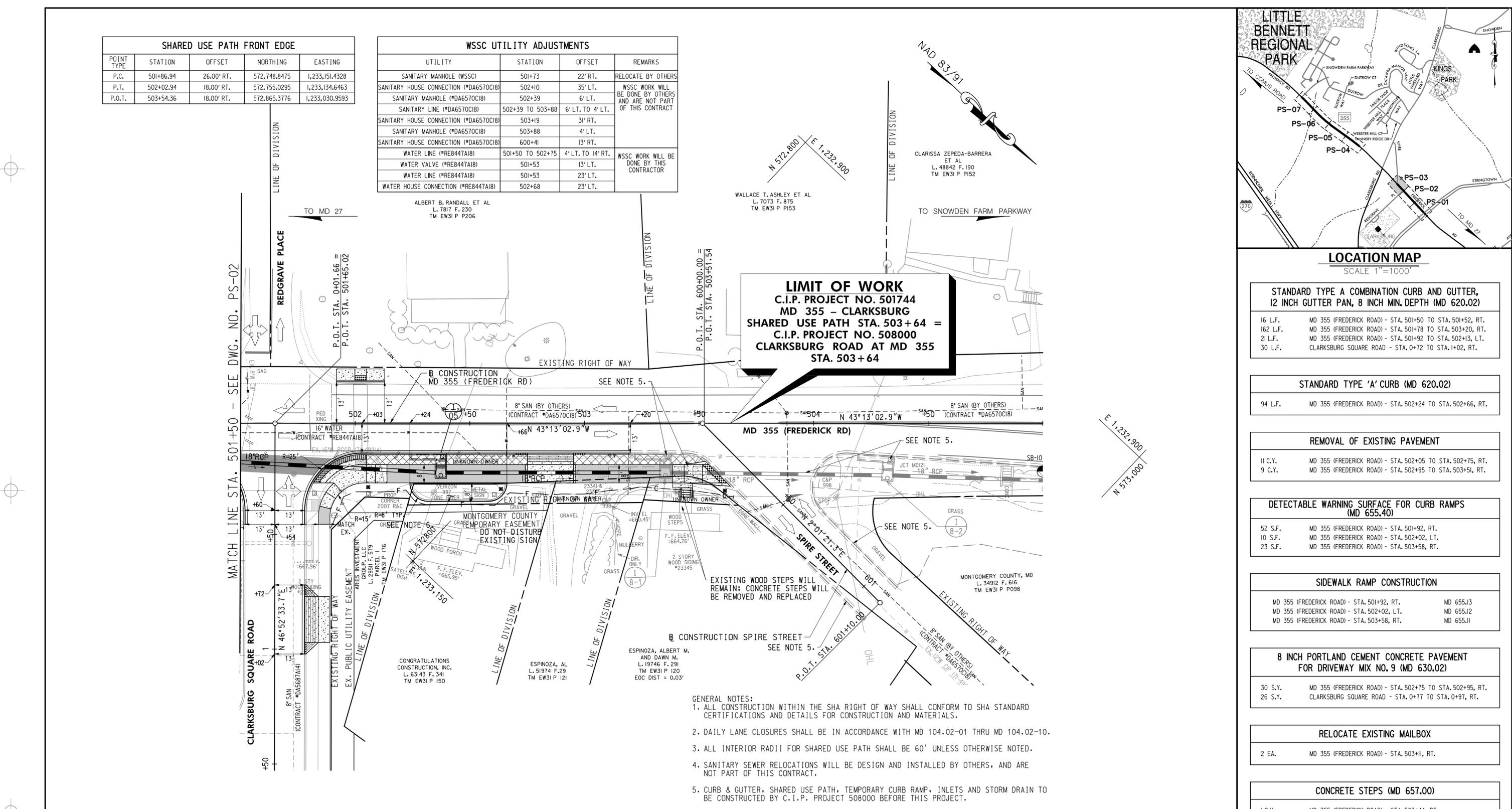
Designed by : N.D.K. Drawn by : S.A.T. Checked by : S.H.D.

PLAN SHEET PS-02
ROADWAY PLANS
MD 355 - CLARKSBURG
SHARED USE PATH
STA. 498+00 TO STA. 501+50
SCALE: 1"=20' 02/2025

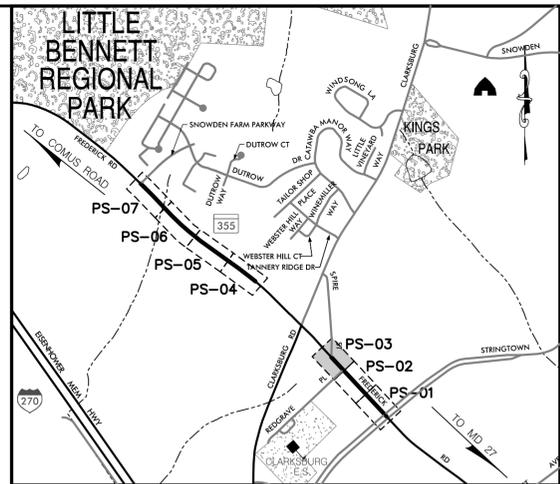
Project No. : C.I.P. PR. # 501744 SHEET 10 of 97

SHARED USE PATH FRONT EDGE				
POINT TYPE	STATION	OFFSET	NORTHING	EASTING
P.C.	501+86.94	26.00' RT.	572,748.8475	1,233,151.4328
P.T.	502+02.94	18.00' RT.	572,755.0295	1,233,134.6463
P.O.T.	503+54.36	18.00' RT.	572,865.3776	1,233,030.9593

WSSC UTILITY ADJUSTMENTS				
UTILITY	STATION	OFFSET	REMARKS	
SANITARY MANHOLE (WSSC)	501+73	22' RT.	RELOCATE BY OTHERS	
SANITARY HOUSE CONNECTION (*DA6570CI8)	502+10	35' LT.	WSSC WORK WILL BE DONE BY OTHERS AND ARE NOT PART OF THIS CONTRACT	
SANITARY MANHOLE (*DA6570CI8)	502+39	6' LT.		
SANITARY LINE (*DA6570CI8)	502+39 TO 503+88	6' LT. TO 4' LT.		
SANITARY HOUSE CONNECTION (*DA6570CI8)	503+19	31' RT.	WSSC WORK WILL BE DONE BY THIS CONTRACTOR	
SANITARY MANHOLE (*DA6570CI8)	503+88	4' LT.		
SANITARY HOUSE CONNECTION (*DA6570CI8)	600+41	13' RT.		
WATER LINE (*RE8447AI8)	501+50 TO 502+75	4' LT. TO 14' RT.	WSSC WORK WILL BE DONE BY THIS CONTRACTOR	
WATER VALVE (*RE8447AI8)	501+53	13' LT.		
WATER LINE (*RE8447AI8)	501+53	23' LT.		
WATER HOUSE CONNECTION (*RE8447AI8)	502+68	23' LT.		



LIMIT OF WORK
 C.I.P. PROJECT NO. 501744
 MD 355 - CLARKSBURG
 SHARED USE PATH STA. 503+64 =
 C.I.P. PROJECT NO. 508000
 CLARKSBURG ROAD AT MD 355
 STA. 503+64



LOCATION MAP
 SCALE 1"=1000'

STANDARD TYPE A COMBINATION CURB AND GUTTER, 12 INCH GUTTER PAN, 8 INCH MIN. DEPTH (MD 620.02)	
16 L.F.	MD 355 (FREDERICK ROAD) - STA. 501+50 TO STA. 501+52, RT.
162 L.F.	MD 355 (FREDERICK ROAD) - STA. 501+78 TO STA. 503+20, RT.
21 L.F.	MD 355 (FREDERICK ROAD) - STA. 501+92 TO STA. 502+13, LT.
30 L.F.	CLARKSBURG SQUARE ROAD - STA. 0+72 TO STA. 1+02, RT.

STANDARD TYPE 'A' CURB (MD 620.02)	
94 L.F.	MD 355 (FREDERICK ROAD) - STA. 502+24 TO STA. 502+66, RT.

REMOVAL OF EXISTING PAVEMENT	
11 C.Y.	MD 355 (FREDERICK ROAD) - STA. 502+05 TO STA. 502+75, RT.
9 C.Y.	MD 355 (FREDERICK ROAD) - STA. 502+95 TO STA. 503+51, RT.

DETECTABLE WARNING SURFACE FOR CURB RAMPS (MD 655.40)	
52 S.F.	MD 355 (FREDERICK ROAD) - STA. 501+92, RT.
10 S.F.	MD 355 (FREDERICK ROAD) - STA. 502+02, LT.
23 S.F.	MD 355 (FREDERICK ROAD) - STA. 503+58, RT.

SIDEWALK RAMP CONSTRUCTION			
MD 355 (FREDERICK ROAD) - STA. 501+92, RT.	MD 655.13		
MD 355 (FREDERICK ROAD) - STA. 502+02, LT.	MD 655.12		
MD 355 (FREDERICK ROAD) - STA. 503+58, RT.	MD 655.11		

8 INCH PORTLAND CEMENT CONCRETE PAVEMENT FOR DRIVEWAY MIX NO. 9 (MD 630.02)	
30 S.Y.	MD 355 (FREDERICK ROAD) - STA. 502+75 TO STA. 502+95, RT.
26 S.Y.	CLARKSBURG SQUARE ROAD - STA. 0+77 TO STA. 0+97, RT.

RELOCATE EXISTING MAILBOX	
2 EA.	MD 355 (FREDERICK ROAD) - STA. 503+11, RT.

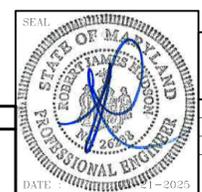
CONCRETE STEPS (MD 657.00)	
1 C.Y.	MD 355 (FREDERICK ROAD) - STA. 503+44, RT.

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 www.wallacemontgomery.com

LEGEND

	SPLIT RAIL FENCE		RIPRAP
	TRAFFIC BARRIER		TOP OF CUT
	CLARKSBURG HISTORIC DISTRICT BOUNDARY		TOE OF FILL
	SHARED USE PATH		WETLAND
	PERMEABLE PAVEMENT		WETLAND BUFFER
	FULL DEPTH PAVEMENT		WATERS OF THE US
	FINE MILLING & ASPHALT RESURFACING		CONSTRUCTION
	CONCRETE DRIVEWAY		
	PAVEMENT REMOVAL		
	DETECTABLE WARNING SURFACE		
	VEHICULAR BRICK PAVER		

- GENERAL NOTES:**
- ALL CONSTRUCTION WITHIN THE SHA RIGHT OF WAY SHALL CONFORM TO SHA STANDARD CERTIFICATIONS AND DETAILS FOR CONSTRUCTION AND MATERIALS.
 - DAILY LANE CLOSURES SHALL BE IN ACCORDANCE WITH MD 104.02-01 THRU MD 104.02-10.
 - ALL INTERIOR RADIUS FOR SHARED USE PATH SHALL BE 60' UNLESS OTHERWISE NOTED.
 - SANITARY SEWER RELOCATIONS WILL BE DESIGN AND INSTALLED BY OTHERS, AND ARE NOT PART OF THIS CONTRACT.
 - CURB & GUTTER, SHARED USE PATH, TEMPORARY CURB RAMP, INLETS AND STORM DRAIN TO BE CONSTRUCTED BY C.I.P. PROJECT 508000 BEFORE THIS PROJECT.
 - PROVIDE SMOOTH FINISHED GRADE WITH TURFGRASS SOD FLUSH WITH HEIGHT OF PROPOSED CURB.
 - REFER TO SPECIAL PROVISION 404 "PROTECTION OF EXISTING STRUCTURES" WHEN WORKING CLOSE TO HISTORIC STRUCTURES.



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.
 ROBERT J. HUDSON MD NO-26238 EXP-08/17/2025

DATUM: NAD 83/91 HORIZONTAL
 NAVD 88 VERTICAL

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

RECOMMENDED FOR APPROVAL
 FOR SIGNATURES SEE TITLE SHEET
 Chief, Design Section
 Date

APPROVED
 FOR SIGNATURES SEE TITLE SHEET
 Chief, Division of Engineering Services
 Date

Designed by: N.D.K. Drawn by: S.A.T. Checked by: S.H.D.

PLAN SHEET PS-03
ROADWAY PLANS
MD 355 - CLARKSBURG
SHARED USE PATH
STA. 501+50 TO STA. 505+00
 SCALE: 1"=20' 02/2025

Project No.: C.I.P. PR. # 501744 SHEET 11 of 97

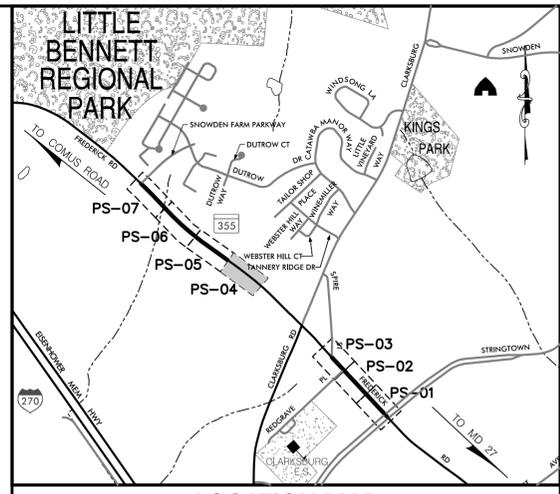
C-03
CURVE DATA
 DELTA = 8°23'55.0" LT.
 Dc = 1'49'47.7"
 R = 3,131.21'
 L = 458.98'
 T = 229.90'
 CH = 458.98'
 E = 8.43'

SHARED USE PATH FRONT EDGE				
POINT TYPE	STATION	OFFSET	NORTHING	EASTING
P.C.	515+27.58	17.52' RT.	573,695.2089	1,232,199.4379
P.R.C.	515+56.56	17.52' RT.	573,713.6047	1,232,176.8347
P.C.C.	515+69.87	19.00' RT.	573,723.1358	1,232,167.3279
P.T.	517+08.15	19.00' RT.	573,807.5622	1,232,056.7704
P.I.	518+50.00	19.00' RT.	573,891.3028	1,231,941.9375
P.O.T.	519+00.00	19.00' RT.	573,920.1877	1,231,901.1249

UTILITY ADJUSTMENTS			
UTILITY	STATION	OFFSET	REMARKS
UTILITY POLE (VERIZON)	516+52	21' RT.	RELOCATE BY VERIZON
UTILITY POLE (VERIZON)	518+05	19' RT.	RELOCATE BY VERIZON
WATER LINE (*RE8447A18)	518+23 TO 519+00	14' RT. TO 14' RT.	WSSC WORK WILL BE DONE BY THIS CONTRACTOR
WATER METER (*RE8447A18)	518+27	38' RT.	

DRIVEWAY STAKEOUT POINTS - STA. 518+38			
POINT	STATION	OFFSET	ELEVATION
1	518+28	27' RT.	653.32
2	518+48	27' RT.	653.32
3	518+36	44' RT.	654.39
4	518+44	43.5' RT.	654.25

FOR PAVEMENT SECTION, REFER TO DETAIL 'C' ON DWG. NO. DE-01



LOCATION MAP
 SCALE 1"=1000'

STANDARD TYPE A COMBINATION CURB AND GUTTER, 12 INCH GUTTER PAN, 8 INCH MIN. DEPTH (MD 620.02)
 371 L.F. MD 355 (FREDERICK ROAD) - STA. 515+28 TO STA. 519+00, RT.

REMOVAL OF EXISTING PAVEMENT
 11 C.Y. MD 355 (FREDERICK ROAD) - STA. 516+30 TO STA. 516+15, RT.
 24 C.Y. MD 355 (FREDERICK ROAD) - STA. 516+39 TO STA. 518+28, RT.
 1 C.Y. MD 355 (FREDERICK ROAD) - STA. 518+48 TO STA. 518+57, RT.

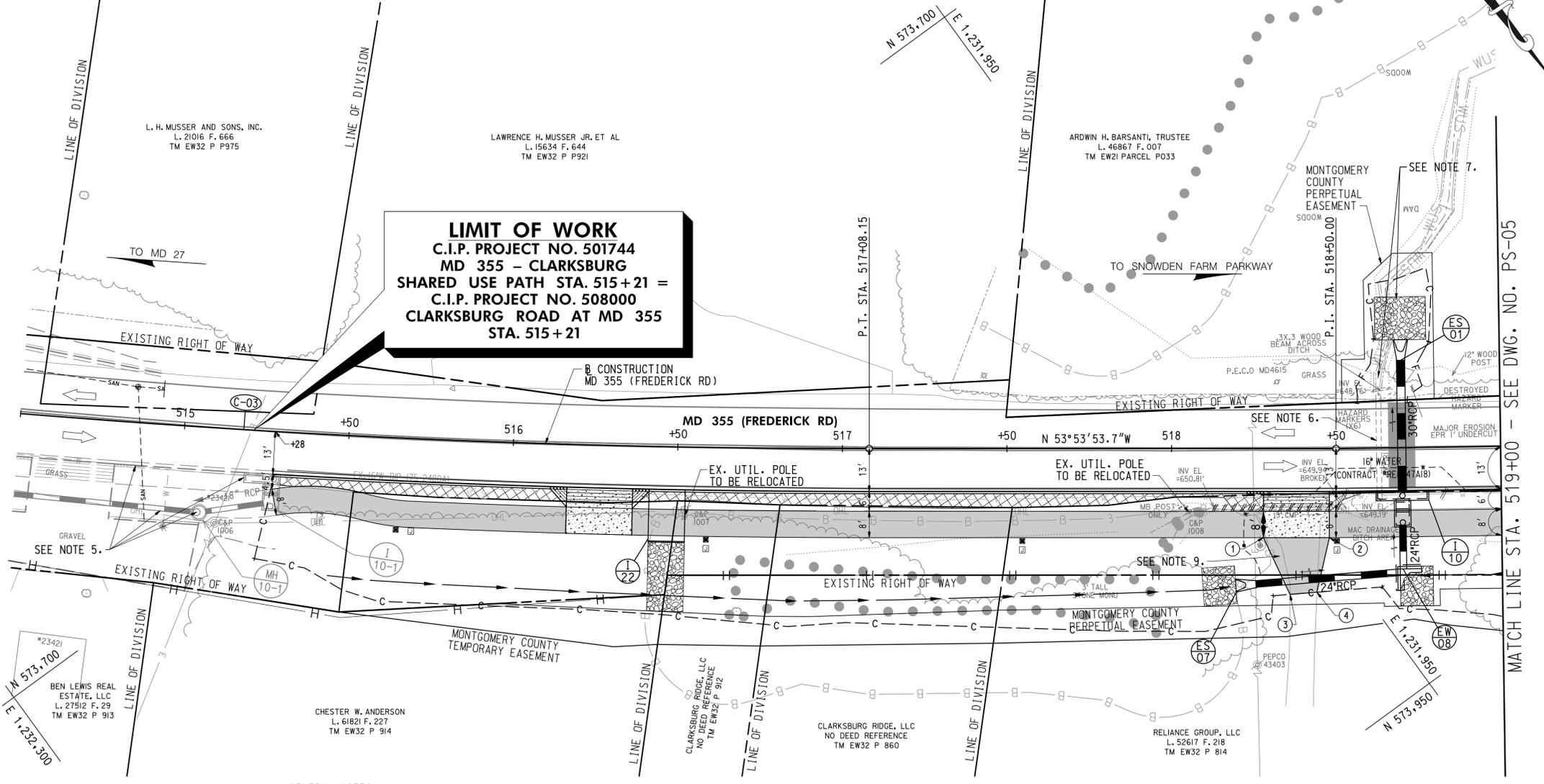
8 INCH PORTLAND CEMENT CONCRETE PAVEMENT FOR DRIVEWAY MIX NO. 9 (MD 630.02)
 33 S.Y. MD 355 (FREDERICK ROAD) - STA. 516+17 TO STA. 516+37, RT.
 30 S.Y. MD 355 (FREDERICK ROAD) - STA. 518+28 TO STA. 518+48, RT.

CLASS I RIPRAP FOR SLOPE AND CHANNEL PROTECTION
 29 S.Y. MD 355 (FREDERICK ROAD) - STA. 516+47, RT.
 13 S.Y. MD 355 (FREDERICK ROAD) - STA. 518+20, RT.
 23 S.Y. MD 355 (FREDERICK ROAD) - STA. 518+70, LT.
 11 S.Y. MD 355 (FREDERICK ROAD) - STA. 518+75, RT.

FLOWABLE BACKFILL FOR PIPE ABANDONMENT
 2 C.Y. MD 355 (FREDERICK ROAD) - STA. 516+63, 15' RT. TO 17' LT.

REMOVAL OF EXISTING PIPE
 40 L.F. MD 355 (FREDERICK ROAD) - STA. 518+13 TO STA. 518+52, RT.

LIMIT OF WORK
 C.I.P. PROJECT NO. 501744
 MD 355 - CLARKSBURG
 SHARED USE PATH STA. 515+21 =
 C.I.P. PROJECT NO. 508000
 CLARKSBURG ROAD AT MD 355
 STA. 515+21



- GENERAL NOTES:**
- ALL CONSTRUCTION WITHIN THE SHA RIGHT OF WAY SHALL CONFORM TO SHA STANDARD CERTIFICATIONS AND DETAILS FOR CONSTRUCTION AND MATERIALS.
 - DAILY LANE CLOSURES SHALL BE IN ACCORDANCE WITH MD 104.02-01 THRU MD 104.02-10.
 - ALL INTERIOR RADII FOR SHARED USE PATH SHALL BE 60' UNLESS OTHERWISE NOTED.
 - OVERHEAD UTILITY RELOCATIONS WILL BE DESIGN AND INSTALLED BY OTHERS, AND ARE NOT PART OF THIS CONTRACT.
 - CURB & GUTTER, SHARED USE PATH, TEMPORARY CURB RAMP, INLETS, MANHOLE AND STORM DRAIN TO BE CONSTRUCTED BY C.I.P. PROJECT 508000 BEFORE THIS PROJECT.
 - ABANDON EXISTING 18" CMP STORM DRAIN USING FLOWABLE BACKFILL AND REMOVE EXISTING WOOD BEAM AT OUTFALL.
 - REGRADE EXISTING CHANNEL. REFER TO RIPRAP CHANNEL DETAIL ON DWG. NO. DD-01 AND GRADING ON DWG. NO. SC-07. STREAM IS USE I-P WITH A CLOSURE PERIOD FROM MARCH 1 TO JUNE 15.
 - PAVEMENT PATCHING FOR UTILITY AND STORM DRAIN INSTALLATION SHALL COMPLY WITH STANDARD MD 578.01.
 - FOR DRIVEWAY PAVEMENT SECTION, SEE DETAIL 'C' ON DWG. NO. DE-01.

LEGEND

	SPLIT RAIL FENCE		SHARED USE PATH		RIPRAP		PEDESTRIAN LIGHT POLE AND JUNCTION BOX
	TRAFFIC BARRIER		PERMEABLE PAVEMENT		TOP OF CUT		BASE MOUNTED METERED SERVICE PEDESTAL WITH PHOTOCELL
	CLARKSBURG HISTORIC DISTRICT BOUNDARY		FULL DEPTH PAVEMENT		TOE OF FILL		STORM DRAIN SYMBOLS
			FINE MILLING & ASPHALT RESURFACING		WETLAND		END SECTION MANHOLE
			CONCRETE DRIVEWAY		WETLAND BUFFER		INLET
			PAVEMENT REMOVAL		WATERS OF THE US		STD. MANHOLE
			DETECTABLE WARNING SURFACE		CONSTRUCTION		ENDWALL
			VEHICULAR BRICK PAVER				

WALLACE MONTGOMERY
 ENGINEERS-PLANNERS-SURVEYORS-CONSTRUCTION MANAGERS
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 Hunt Valley, Maryland 21030
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 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.
 ROBERT J. HUDSON MD NO-36230 EXP-08/17/2025
 DATE: 02/21/2025 NO. REVISION DATE BY

DATUM: NAD 83/91 HORIZONTAL
 NAVD 88 VERTICAL

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

RECOMMENDED FOR APPROVAL
 FOR SIGNATURES SEE TITLE SHEET
 Chief, Design Section Date
 APPROVED
 FOR SIGNATURES SEE TITLE SHEET
 Chief, Division of Engineering Services Date

Designed by: N.D.K. Drawn by: S.A.T. Checked by: S.H.D.
 DATE: 02/21/2025

PLAN SHEET PS-04
ROADWAY PLANS
MD 355 - CLARKSBURG
SHARED USE PATH
STA. 514+50 TO STA. 519+00
 SCALE: 1"=20' 02/2025
 Project No.: C.I.P. PR. # 501744 SHEET 12 of 97

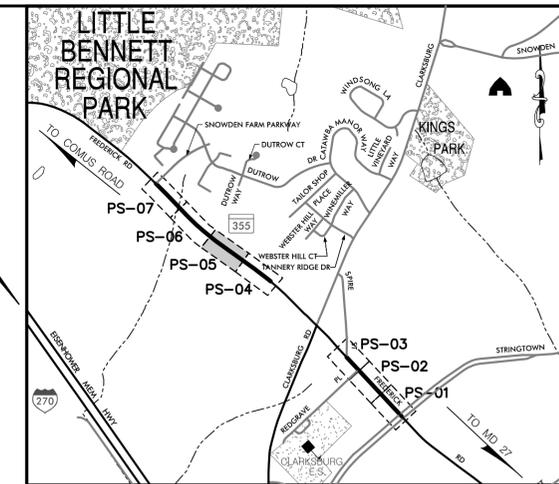
C-04
CURVE DATA
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 Dc = 2° 09' 20.6"
 R = 2,658.00'
 L = 498.35'
 T = 249.91'
 CH = 497.62'
 E = 11.72'

SHARED USE PATH FRONT EDGE				
POINT TYPE	STATION	OFFSET	NORTHING	EASTING
P.O.T.	519+00.00	19.00' RT.	573,920.1877	1,231,901.1249
P.C.	519+35.10	19.00' RT.	573,940.4648	1,231,872.4747
P.R.C.	519+49.21	20.43' RT.	573,949.7856	1,231,861.7906
P.R.C.	519+73.39	20.43' RT.	573,963.7548	1,231,842.0531
P.T.	519+87.49	19.00' RT.	573,970.7314	1,231,829.7100
P.C.	520+80.82	19.00' RT.	574,024.6498	1,231,753.5268
P.R.C.	520+89.91	19.69' RT.	574,030.4652	1,231,746.5084
P.T.	521+00.52	20.50' RT.	574,037.2498	1,231,738.3202
P.C.	521+08.02	20.50' RT.	574,041.5826	1,231,732.1984
P.R.C.	521+18.62	19.69' RT.	574,047.0486	1,231,723.0770
P.T.	521+27.71	19.00' RT.	574,051.7338	1,231,715.2587
P.C.	521+89.64	19.00' RT.	574,087.5133	1,231,664.7046
P.R.C.	522+61.83	19.00' RT.	574,129.7094	1,231,606.7691
P.R.C.	522+74.53	17.63' RT.	574,136.1991	1,231,595.8730
P.C.C.	522+89.62	16.00' RT.	574,143.9834	1,231,582.9576
P.O.C.	523+50.00	16.00' RT.	574,181.0132	1,231,535.7227

DRIVEWAY STAKEOUT POINTS - 520+30			
POINT	STATION	OFFSET	ELEVATION
1	520+20	27' RT.	654.85
2	520+40	27' RT.	655.00
3	520+24	39' RT.	656.71
4	520+40	39' RT.	657.36

FOR PAVEMENT SECTION, REFER TO DETAIL 'C' ON DWG. NO. DE-01

UTILITY ADJUSTMENTS			
UTILITY	STATION	OFFSET	REMARKS
WATER LINE (*RE8447A18)	519+00 TO 519+10	14' RT. TO 14' RT.	WSSC WORK WILL BE DONE BY THIS CONTRACTOR
WATER LINE (*RE8447A18)	522+20 TO 523+50	14' RT. TO 4' RT.	
WATER HOUSE CONNECTION (WSSC)	520+25	16' RT.	ADJUST TO PROPOSED GRADE
WATER METER (WSSC)	520+25	27' RT.	
OVERHEAD UTILITIES	522+53 TO 523+50	18' RT. TO 21' RT.	RELOCATE BY VERIZON
UTILITY POLE (VERIZON)	522+50	18' RT.	



LOCATION MAP
 SCALE 1"=1000'

STANDARD TYPE A COMBINATION CURB AND GUTTER, 12 INCH GUTTER PAN, 8 INCH MIN. DEPTH (MD 620.02)
 449 L.F. MD 355 (FREDERICK ROAD) - STA. 519+00 TO STA. 523+50, RT.

REMOVAL OF EXISTING PAVEMENT
 9 C.Y. MD 355 (FREDERICK ROAD) - STA. 519+52 TO STA. 520+11, RT.
 1 C.Y. MD 355 (FREDERICK ROAD) - STA. 520+41 TO STA. 520+47, RT.

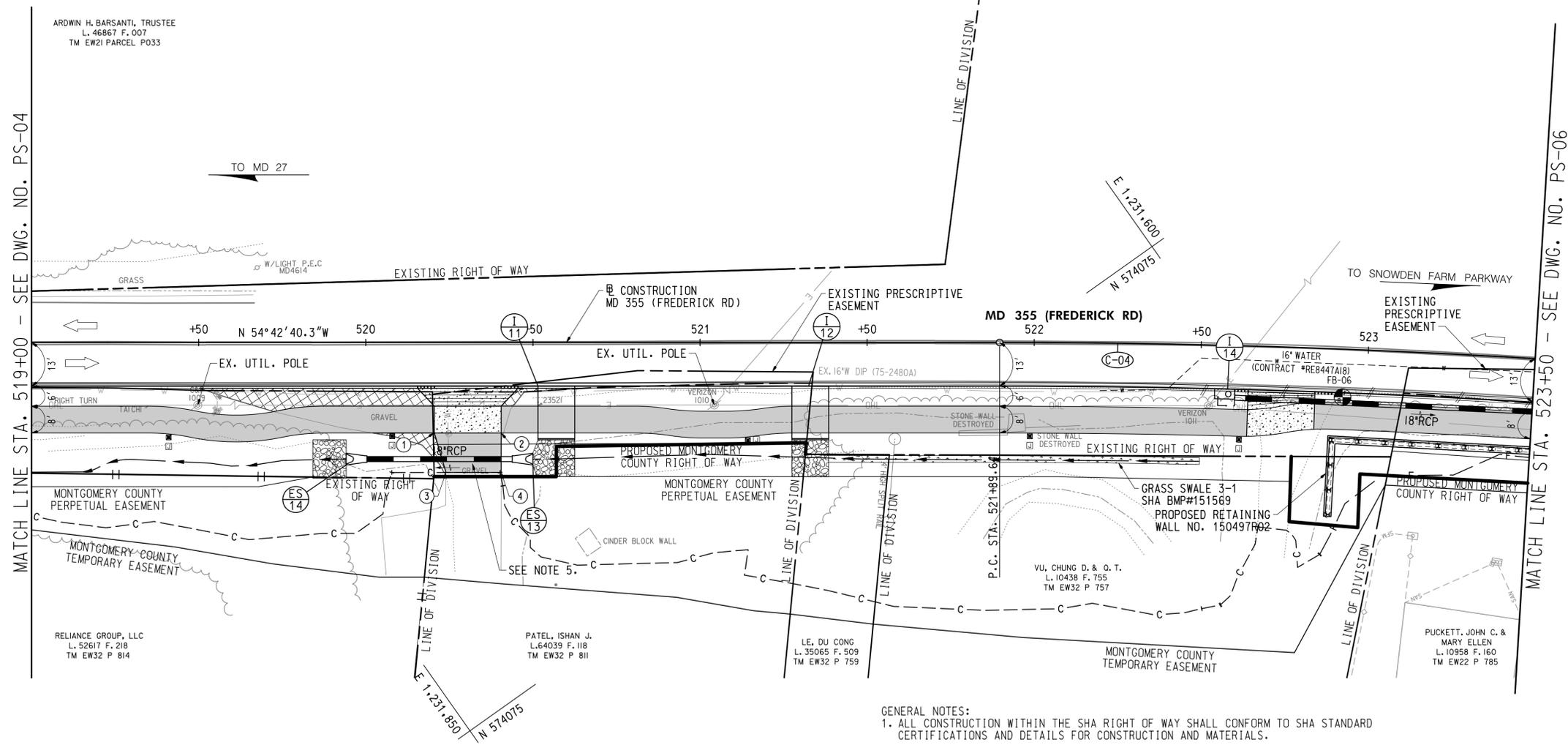
8 INCH PORTLAND CEMENT CONCRETE PAVEMENT FOR DRIVEWAY MIX NO. 9 (MD 630.02)
 33 S.Y. MD 355 (FREDERICK ROAD) - STA. 520+20 TO STA. 520+40, RT.
 27 S.Y. MD 355 (FREDERICK ROAD) - STA. 522+64 TO STA. 522+84, RT.

REMOVAL OF EXISTING MASONRY
 4 C.Y. MD 355 (FREDERICK ROAD) - STA. 521+90, RT. (STONE WALL)

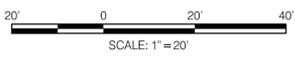
RELOCATE EXISTING MAILBOX
 1 EA. MD 355 (FREDERICK ROAD) - STA. 520+44, RT.

REMOVE AND DISPOSE EXISTING FENCE
 32 L.F. MD 355 (FREDERICK ROAD) - STA. 521+56 TO STA. 521+58, RT.

CLASS I RIPRAP FOR SLOPE AND CHANNEL PROTECTION
 13 S.Y. MD 355 (FREDERICK ROAD) - STA. 519+89, RT.
 17 S.Y. MD 355 (FREDERICK ROAD) - STA. 520+57, RT.
 15 S.Y. MD 355 (FREDERICK ROAD) - STA. 521+33, RT.



- GENERAL NOTES:**
1. ALL CONSTRUCTION WITHIN THE SHA RIGHT OF WAY SHALL CONFORM TO SHA STANDARD CERTIFICATIONS AND DETAILS FOR CONSTRUCTION AND MATERIALS.
 2. DAILY LANE CLOSURES SHALL BE IN ACCORDANCE WITH MD 104.02-01 THRU MD 104.02-10.
 3. ALL INTERIOR RADIUS FOR SHARED USE PATH SHALL BE 60' UNLESS OTHERWISE NOTED.
 4. OVERHEAD UTILITY RELOCATIONS WILL BE DESIGNED AND INSTALLED BY OTHERS, AND ARE NOT PART OF THIS CONTRACT.
 5. FOR DRIVEWAY PAVEMENT SECTION, SEE DETAIL 'C' ON DWG. NO. DE-01.
 6. SEE DWG. NO. SW-01 (SC0047) FOR SWM AS-BUILT TABLES.



LEGEND

	SPLIT RAIL FENCE		RIPRAP
	TRAFFIC BARRIER		TOP OF CUT
	CLARKSBURG HISTORIC DISTRICT BOUNDARY		TOE OF FILL
	SHARED USE PATH		WETLAND
	PERMEABLE PAVEMENT		WETLAND BUFFER
	FULL DEPTH PAVEMENT		WATERS OF THE US
	FINE MILLING & ASPHALT RESURFACING		CONSTRUCTION
	CONCRETE DRIVEWAY		
	PAVEMENT REMOVAL		
	DETECTABLE WARNING SURFACE		
	VEHICULAR BRICK PAVER		

PEDESTRIAN LIGHT POLE AND JUNCTION BOX

STORM DRAIN SYMBOLS

STORM DRAIN SYMBOLS

STORM DRAIN SYMBOLS

WALLACE MONTGOMERY
 ENGINEERS-PLANNERS-SURVEYORS-CONSTRUCTION MANAGERS
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 www.wallacemontgomery.com

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 ROBERT J. HUDSON MD NO-26230 EXP-08/17/2025
 DATE: 02/21/2025

DATUM: NAD 83/91 HORIZONTAL
 NAVD 88 VERTICAL

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

RECOMMENDED FOR APPROVAL
 FOR SIGNATURES SEE TITLE SHEET
 Chief, Design Section
 APPROVED
 FOR SIGNATURES SEE TITLE SHEET
 Chief, Division of Engineering Services

Designed by: N.D.K. Drawn by: S.A.T. Checked by: S.H.D.

PLAN SHEET PS-05
ROADWAY PLANS
MD 355 - CLARKSBURG
SHARED USE PATH
STA. 519+00 TO STA. 523+50
 SCALE: 1"=20' 02/2025
 Project No.: C.I.P. PR. # 501744 SHEET 13 of 97

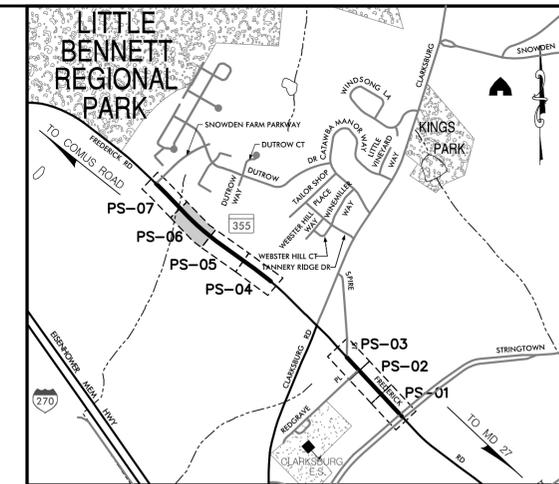
C-04
CURVE DATA
 DELTA = 10° 44' 32.5" RT.
 Dc = 2° 09' 20.6"
 R = 2,658.00'
 L = 498.35'
 T = 249.91'
 CH = 497.62'
 E = 11.72'

SHARED USE PATH FRONT EDGE				
POINT TYPE	STATION	OFFSET	NORTHING	EASTING
P.O.C.	523+50.00	16.00' RT.	574,181.0132	1,231,535.7227
P.C.C.	523+80.32	16.00' RT.	574,200.0082	1,231,512.3262
P.T.	523+93.40	17.22' RT.	574,209.2231	1,231,503.0813
P.C.	524+44.79	26.37' RT.	574,249.1345	1,231,470.0806
P.R.C.	524+61.94	31.47' RT.	574,264.0404	1,231,460.6110
P.C.C.	525+01.39	39.67' RT.	574,296.0701	1,231,436.9404
P.T.	526+87.99	39.67' RT.	574,423.7763	1,231,304.7893
P.C.	527+88.85	39.67' RT.	574,496.3689	1,231,234.7637
P.O.C.	528+00.00	38.62' RT.	574,503.6670	1,231,226.2721

UTILITY ADJUSTMENTS			
UTILITY	STATION	OFFSET	REMARKS
WATER LINE (*RE8447A18)	523+50 TO 524+21	4' RT. TO 14' RT.	WSSC WORK WILL BE DONE BY THIS CONTRACTOR
WATER HOUSE CONNECTION (*RE8447A18)	523+80	60' RT.	
UTILITY POLE (VERIZON)	524+11	21' RT.	RELOCATE BY VERIZON
UTILITY POLE (VERIZON)	524+87	28' RT.	
UTILITY POLE (VERIZON)	526+50	35' RT.	
UNDERGROUND FIBER OPTIC (VERIZON)	527+76	45' RT.	

DRIVEWAY STAKEOUT POINTS - 523+92			
POINT	STATION	OFFSET	ELEVATION
1	523+87	24' RT.	653.00
2	523.97	26' RT.	652.98
3	523+89	37' RT.	655.45
4	523+99	36' RT.	655.34
5	523+90	62' RT.	661.36
6	524+00	61' RT.	661.16

FOR PAVEMENT SECTION, REFER TO DETAIL 'C' ON DWG. NO. DE-01



LOCATION MAP
 SCALE 1"=1000'

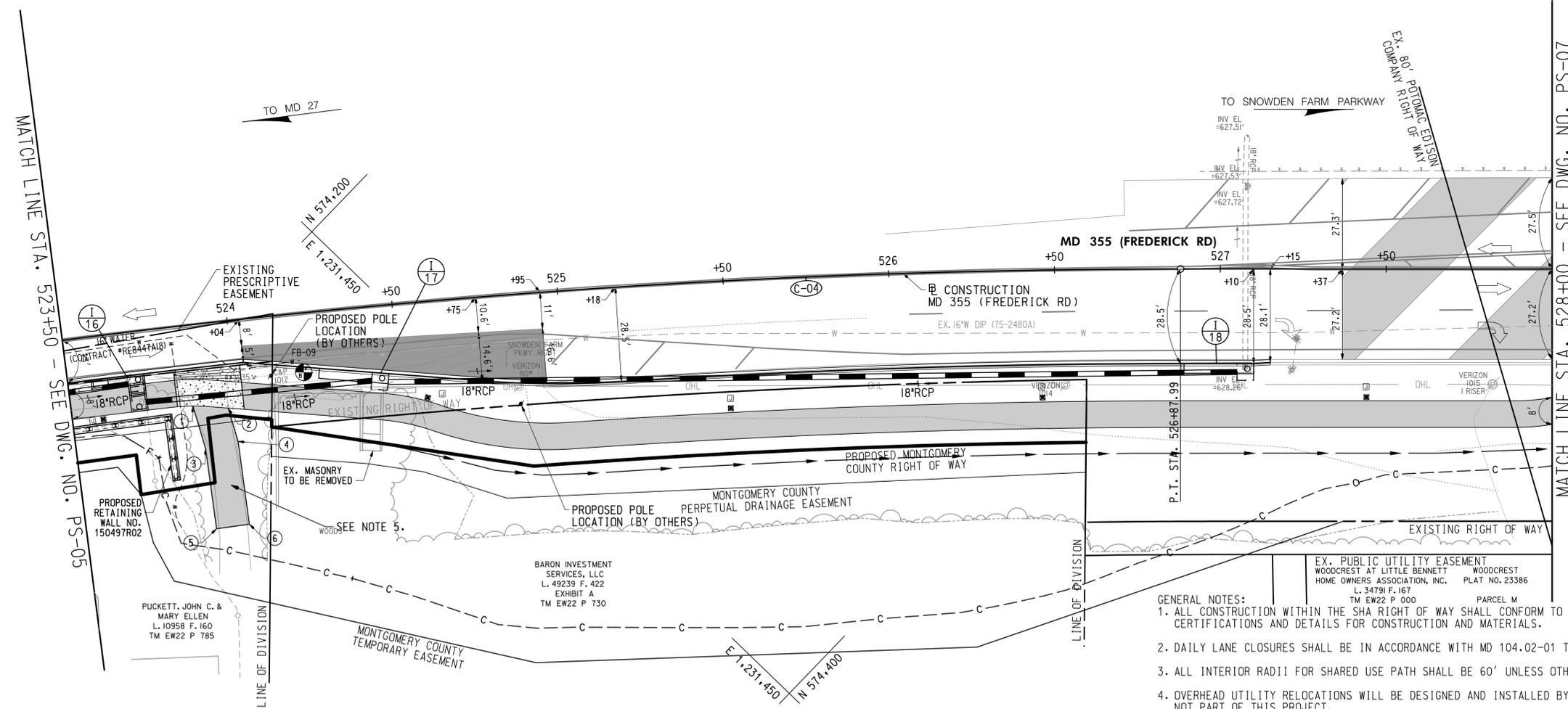
STANDARD TYPE A COMBINATION CURB AND GUTTER, 12 INCH GUTTER PAN, 8 INCH MIN. DEPTH (MD 620.02)
 364 L.F. MD 355 (FREDERICK ROAD) - STA. 523+50 TO STA. 527+15, RT.

8 INCH PORTLAND CEMENT CONCRETE PAVEMENT FOR DRIVEWAY MIX NO. 9 (MD 630.02)
 26 S.Y. MD 355 (FREDERICK ROAD) - STA. 523+82 TO STA. 524+02, RT.

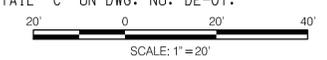
REMOVAL OF EXISTING MASONRY
 20 C.Y. MD 355 (FREDERICK ROAD) - STA. 524+09 TO STA. 524+55, RT. (STONE WALL AND STEPS)

RELOCATE EXISTING MAILBOX
 1 EA. MD 355 (FREDERICK ROAD) - STA. 524+03, RT.

FINE MILLING ASPHALT PAVEMENT 1 INCH TO 2.5 INCH DEPTH
 383 S.Y. MD 355 (FREDERICK ROAD) - STA. 527+37 TO STA. 528+00



- GENERAL NOTES:**
- ALL CONSTRUCTION WITHIN THE SHA RIGHT OF WAY SHALL CONFORM TO SHA STANDARD CERTIFICATIONS AND DETAILS FOR CONSTRUCTION AND MATERIALS.
 - DAILY LANE CLOSURES SHALL BE IN ACCORDANCE WITH MD 104.02-01 THRU MD 104.02-10.
 - ALL INTERIOR RADII FOR SHARED USE PATH SHALL BE 60' UNLESS OTHERWISE NOTED.
 - OVERHEAD UTILITY RELOCATIONS WILL BE DESIGNED AND INSTALLED BY OTHERS, AND ARE NOT PART OF THIS PROJECT.
 - FOR DRIVEWAY PAVEMENT SECTION, SEE DETAIL 'C' ON DWG. NO. DE-01.



LEGEND

SPLIT RAIL FENCE	SHARED USE PATH	RIPRAP	PEDESTRIAN LIGHT POLE AND JUNCTION BOX
TRAFFIC BARRIER	PERMEABLE PAVEMENT	TOP OF CUT	BASE MOUNTED METERED SERVICE PEDESTAL WITH PHOTOCELL
CLARKSBURG HISTORIC DISTRICT BOUNDARY	FULL DEPTH PAVEMENT	TOE OF FILL	STORM DRAIN SYMBOLS
FINE MILLING & ASPHALT RESURFACING	CONCRETE DRIVEWAY	WETLAND	MANHOLE END WALL
PAVEMENT REMOVAL	DETECTABLE WARNING SURFACE	WETLAND BUFFER	STORM DRAIN INLET
VEHICULAR BRICK PAVER	VEHICULAR BRICK PAVER	WATERS OF THE US	STORM DRAIN END WALL

WALLACE MONTGOMERY
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 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.
 ROBERT J. HUDSON MD NO-26230 EXP-09/17/2025

DATUM: NAD 83/91 HORIZONTAL
 NAVD 88 VERTICAL

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

RECOMMENDED FOR APPROVAL
 FOR SIGNATURES SEE TITLE SHEET
 Chief, Design Section
 APPROVED
 FOR SIGNATURES SEE TITLE SHEET
 Chief, Division of Engineering Services

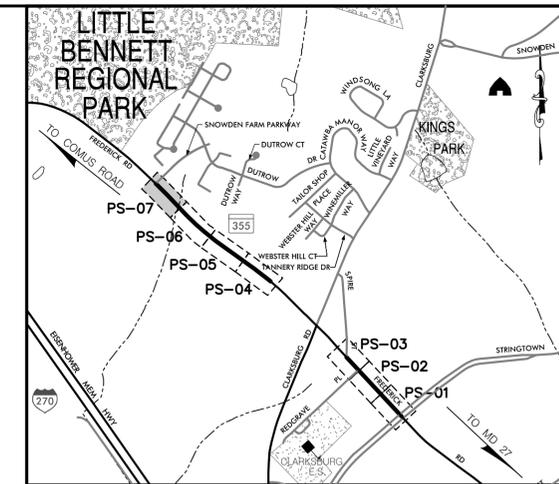
Designed by : N.D.K. Drawn by : S.A.T. Checked by : S.H.D.

PLAN SHEET PS-06
ROADWAY PLANS
MD 355 - CLARKSBURG
SHARED USE PATH
STA. 523+50 TO STA. 528+00
 SCALE: 1"=20'
 Project No. : C.I.P. PR. # 501744 SHEET 14 of 97

C-05
CURVE DATA
 DELTA = 2°40'43.9" LT.
 Dc = 1°12'24.3"
 R = 4,748.00'
 L = 221.99'
 T = 111.02'
 CH = 221.97'
 E = 1.30'

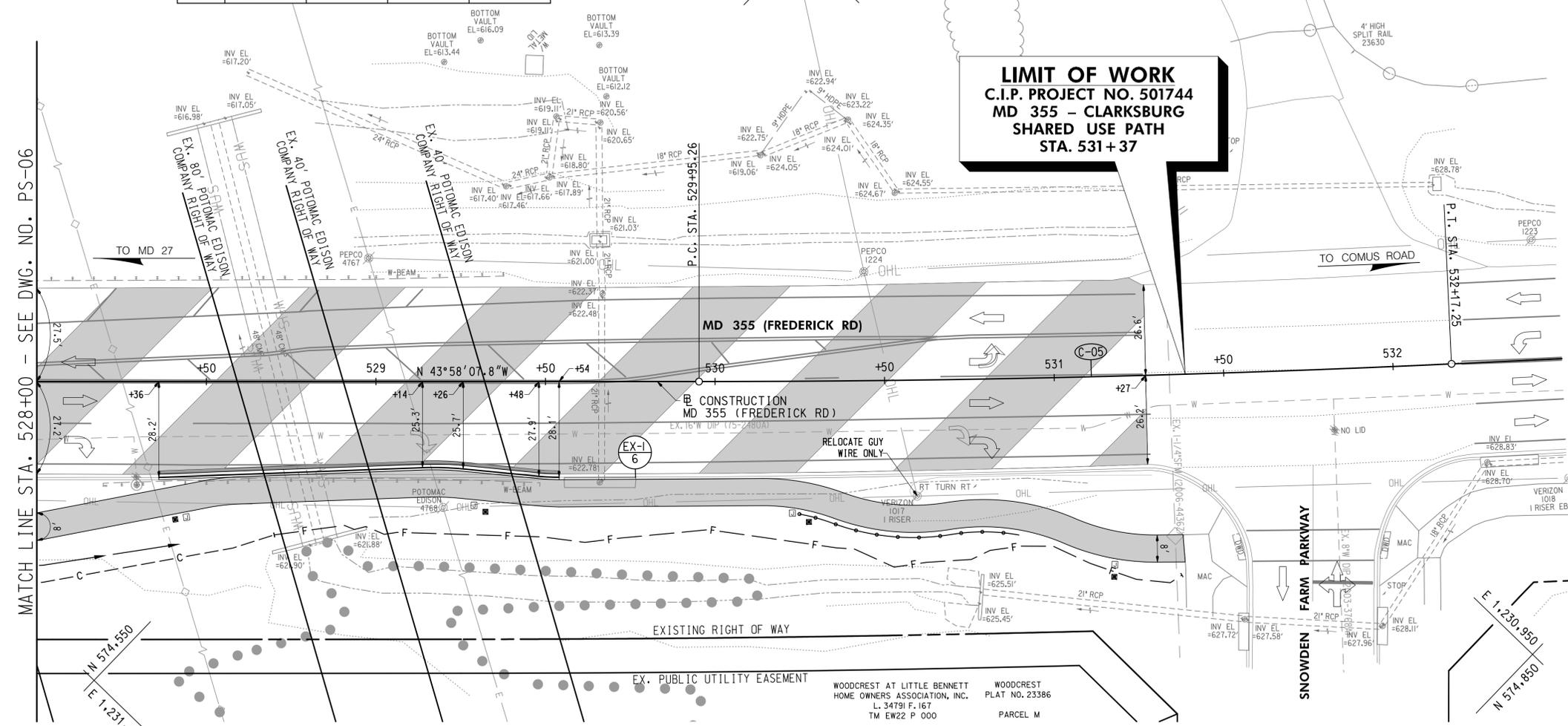
SHARED USE PATH FRONT EDGE				
POINT TYPE	STATION	OFFSET	NORTHING	EASTING
P.O.C.	528+00.00	38.62' RT.	574,503.6670	1,231,226.2721
P.T.	528+00.17	38.59' RT.	574,503.7691	1,231,226.1276
P.C.	528+49.10	29.19' RT.	574,532.4572	1,231,185.3909
P.T.	528+59.44	28.01' RT.	574,539.0779	1,231,177.3709
P.C.	529+13.77	26.01' RT.	574,576.7931	1,231,138.2140
P.T.	529+25.67	26.37' RT.	574,585.6084	1,231,130.2061
P.C.	529+48.00	28.53' RT.	574,603.1812	1,231,116.2629
P.T.	529+51.69	28.78' RT.	574,606.0040	1,231,113.8779
P.I.	529+54.02	28.86' RT.	574,607.7378	1,231,112.3190
P.C.	530+13.84	28.55' RT.	574,650.6339	1,231,070.4623
P.R.C.	530+37.51	32.88' RT.	574,670.6976	1,231,056.9078
P.R.C.	530+67.65	36.14' RT.	574,694.5849	1,231,037.8882
P.R.C.	531+05.11	41.51' RT.	574,725.0592	1,231,014.9417
P.T.	531+29.06	47.01' RT.	574,745.9429	1,231,001.5796
P.O.T.	531+36.60	47.16' RT.	574,751.3704	1,230,996.2392

UTILITY ADJUSTMENTS			
UTILITY	STATION	OFFSET	REMARKS
UTILITY POLE GUY WIRE (VERIZON)	530+59	34' RT.	RELOCATE BY VERIZON



LOCATION MAP
 SCALE 1"=1000'

- STANDARD TYPE A COMBINATION CURB AND GUTTER, 12 INCH GUTTER PAN, 8 INCH MIN. DEPTH (MD 620.02)
119 L.F. MD 355 (FREDERICK ROAD) - STA. 528+36 TO STA. 529+54, RT.
- REMOVAL AND DISPOSAL OF EXISTING TRAFFIC BARRIER W BEAM
134 L.F. MD 355 (FREDERICK ROAD) - STA. 528+20 TO STA. 529+48, RT.
- SPLIT RAIL FENCE
66 L.F. MD 355 (FREDERICK ROAD) - STA. 530+25 TO STA. 530+89, RT.
- FINE MILLING ASPHALT PAVEMENT 1 INCH TO 2.5 INCH DEPTH
1,960 S.Y. MD 355 (FREDERICK ROAD) - STA. 528+00 TO STA. 531+27

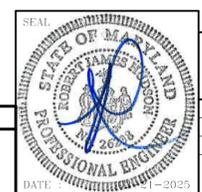


- GENERAL NOTES:**
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 - DAILY LANE CLOSURES SHALL BE IN ACCORDANCE WITH MD 104.02-01 THRU MD 104.02-10.
 - ALL INTERIOR RADII FOR SHARED USE PATH SHALL BE 60' UNLESS OTHERWISE NOTED.
 - OVERHEAD UTILITY RELOCATIONS WILL BE DESIGNED AND INSTALLED BY OTHERS, AND ARE NOT PART OF THIS CONTRACT.

LEGEND

SPLIT RAIL FENCE	SHARED USE PATH	RIPRAP	PEDESTRIAN LIGHT POLE AND JUNCTION BOX
TRAFFIC BARRIER	PERMEABLE PAVEMENT	C — TOP OF CUT	BASE MOUNTED METERED SERVICE PEDESTAL WITH PHOTOCELL
CLARKSBURG HISTORIC DISTRICT BOUNDARY	FULL DEPTH PAVEMENT	F — TOE OF FILL	STORM DRAIN SYMBOLS
	FINE MILLING & ASPHALT RESURFACING	WETLAND	END SECTION MANHOLE
	CONCRETE DRIVEWAY	WETLAND BUFFER	INLET
	PAVEMENT REMOVAL	WUS — WATERS OF THE US	STD. MANHOLE
	DETECTABLE WARNING SURFACE	CONSTRUCTION	ENDWALL
	VEHICULAR BRICK PAVER		

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DATUM: NAD 83/91 HORIZONTAL
 NAVD 88 VERTICAL

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

RECOMMENDED FOR APPROVAL
 FOR SIGNATURES SEE TITLE SHEET
 Chief, Design Section
 Date

APPROVED
 FOR SIGNATURES SEE TITLE SHEET
 Chief, Division of Engineering Services
 Date

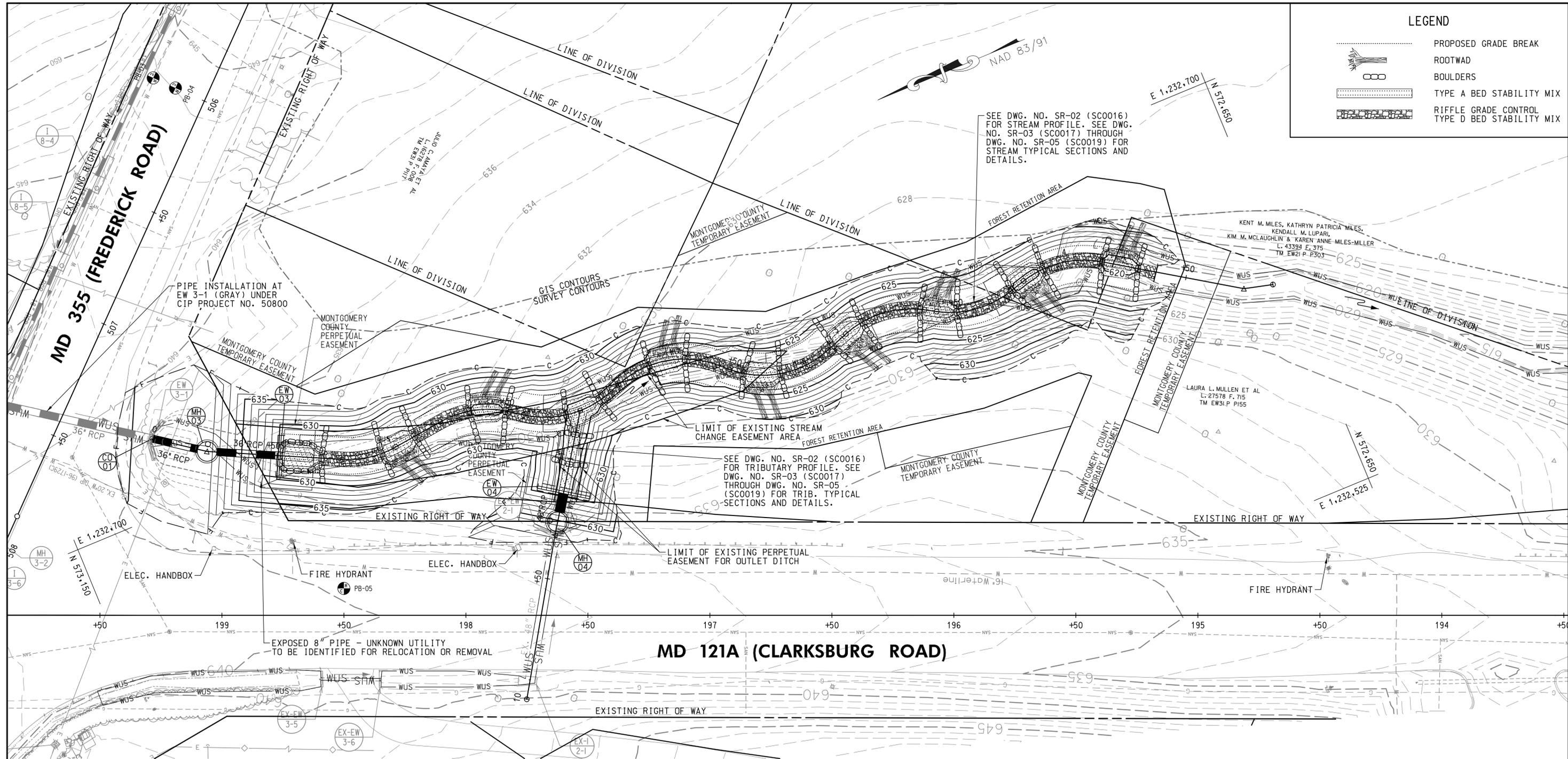
Designed by: N.D.K. Drawn by: S.A.T. Checked by: S.H.D.

PLAN SHEET PS-07
ROADWAY PLANS
MD 355 - CLARKSBURG
SHARED USE PATH
STA. 528+00 TO STA. 531+37
 SCALE: 1"=20' 02/2025

Project No.: C.I.P. PR. # 501744 SHEET 15 of 97

LEGEND

- PROPOSED GRADE BREAK
- ROOTWAD
- BOULDERS
- TYPE A BED STABILITY MIX
- RIFFLE GRADE CONTROL
- TYPE D BED STABILITY MIX



PLAN

SCALE: 1"=20'



BOULDERS	
336 EA.	MD 121A (CLARKSBURG ROAD)

ROOTWADS	
16 EA.	MD 121A (CLARKSBURG ROAD)

REMOVAL OF EXISTING MASONRY	
5 C.Y.	EW 3-1
5 C.Y.	EX-EW 2-1

TYPE A BED STABILITY MIX (BSM)	
44 C.Y.	MD 121A (CLARKSBURG ROAD)

EROSION CONTROL MATTING (ECM)	
250 S.Y.	MD 121A (CLARKSBURG ROAD)

TYPE D BED STABILITY MIX (BSM)	
77 C.Y.	MD 121A (CLARKSBURG ROAD)

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 MD NO-16142 EXP-08/17/2026



DATUM: NAD 83/91 HORIZONTAL
 NAVD 88 VERTICAL

NO.	REVISION	DATE	BY

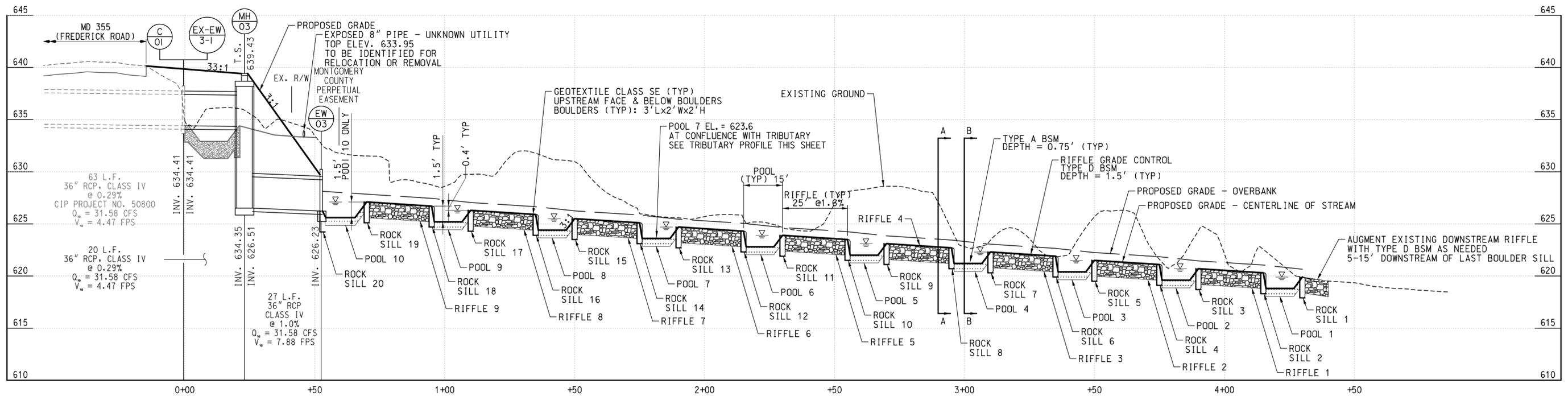
MONTGOMERY COUNTY
 DEPARTMENT OF TRANSPORTATION
 100 EDISON PARK DRIVE, 4TH FLOOR
 GAITHERSBURG, MD 20878

RECOMMENDED FOR APPROVAL
 FOR SIGNATURES SEE TITLE SHEET
 Chief, Design Section
 APPROVED
 FOR SIGNATURES SEE TITLE SHEET
 Chief, Division of Engineering Services

**PLAN SHEET SR-01
 STREAM RESTORATION PLAN
 MD 355 - CLARKSBURG
 SHARED USE PATH**

SCALE: 1"=20' 02/2025
 Project No.: C.I.P. PR. # 501744 SHEET 16 of 97

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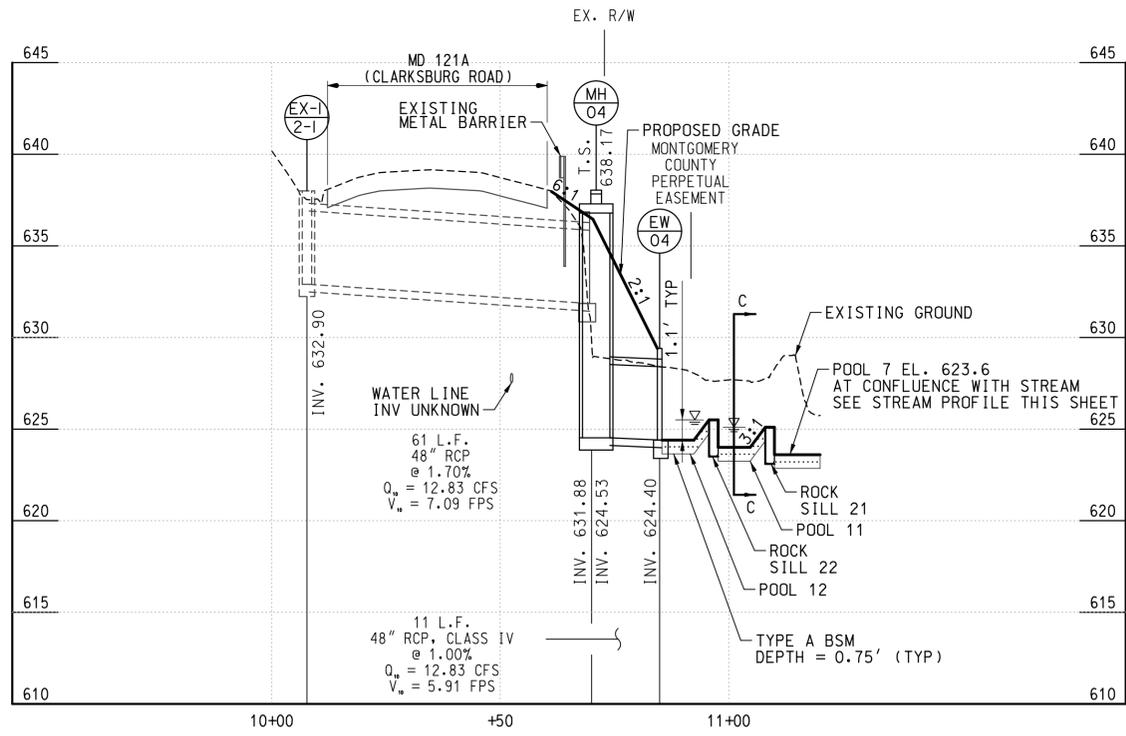


STREAM PROFILE

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

NOTES:

SEE DWG. NO. SR-03 (SC0017) THROUGH DWG. NO. SR-05 (SC0019) FOR TYPICAL SECTIONS AND DETAILS. CHANNEL DEPTHS VARY BETWEEN SECTIONS ACCORDING TO PROFILE.
SEE DWG. NO. SR-03 (SC0017) FOR MONTGOMERY PARKS BED STABILITY MIX (BSM) TABLES FOR TYPE A BSM AND TYPE D BSM SPECIFICATIONS.



TRIBUTARY PROFILE

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



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GLENN W. MARSCHKE MD NO-16142 EXP-08/17/2026



DATUM: NAD 83/91 HORIZONTAL
NAVD 88 VERTICAL

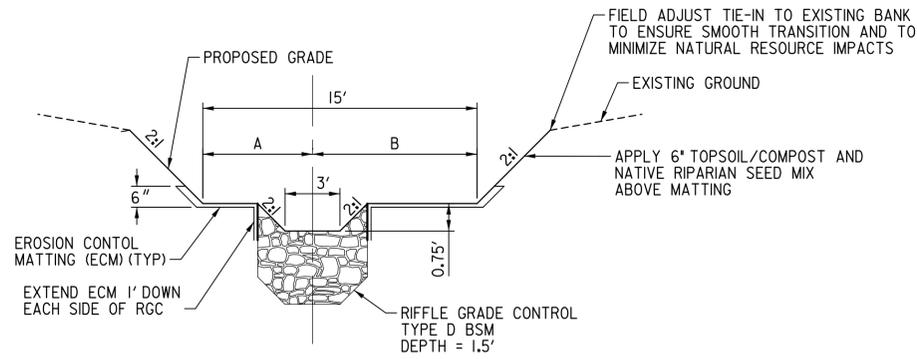
NO.	REVISION	DATE	BY

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

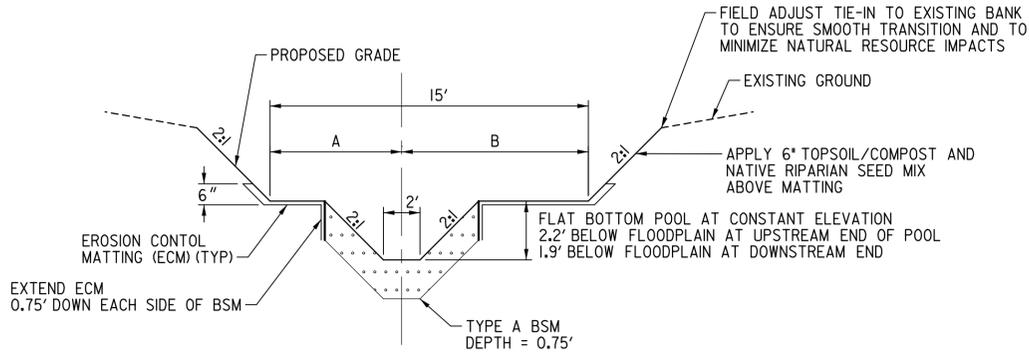
RECOMMENDED FOR APPROVAL
FOR SIGNATURES SEE TITLE SHEET
Chief, Design Section
APPROVED
FOR SIGNATURES SEE TITLE SHEET
Chief, Division of Engineering Services

**PLAN SHEET SR-02
STREAM RESTORATION PROFILE
MD 355 - CLARKSBURG
SHARED USE PATH**

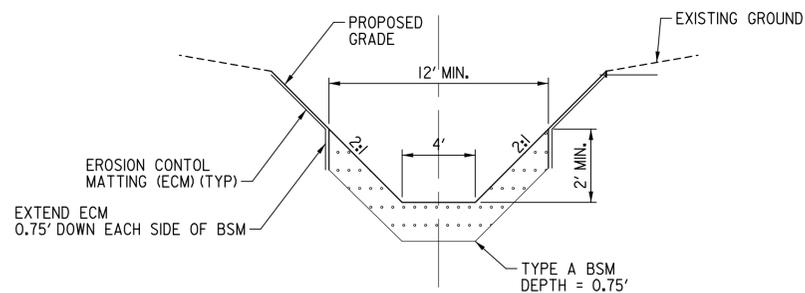
SCALE: AS SHOWN
Project No.: C.I.P. PR. # 501744 SHEET 17 of 97



A-A RIFFLE TYPICAL SECTION
NOT TO SCALE



B-B POOL TYPICAL SECTION
NOT TO SCALE



C-C TRIBUTARY TYPICAL SECTION
NOT TO SCALE

OVERBANK STAKEOUT TABLE

STATION	A	B
0+00	9'	6'
1+12	6'	9'
1+55	9'	6'
1+98	6'	9'
2+46	9'	6'
2+97	6'	9'
3+39	9'	6'
3+77	6'	9'

Montgomery Parks Bed Stability Mix (BSM) Tables

Purpose: Bed Stability Mix (BSM) is a mixture of sands, gravels, cobbles, and rocks that are installed within stream channels to stabilize areas of high stress, provide channel shaping, and create long-term stability, surficial flow, aquatic habitat, and fish passage.

BSM Types: Selection of BSM Type for a particular project should be made based on channel size, stream gradient, anticipated water power, etc.

Type A: For small ephemeral-intermittent channels.

Material Size	Percentage of BSM
BRG/Native SBM	50%
Woodchips	20%
#2 Stone	20%
Surge Stone	10%
Total:	100%

Type B: For small intermittent-perennial channels (Bfw<9') w/low stresses.

Material Size	Percentage of BSM
BRG/Native SBM	40%
Woodchips	10%
Surge Stone	20%
Class O	30%
Total:	100%

Type C: For smaller perennial channels (Bfw<12') w/low-moderate stresses.

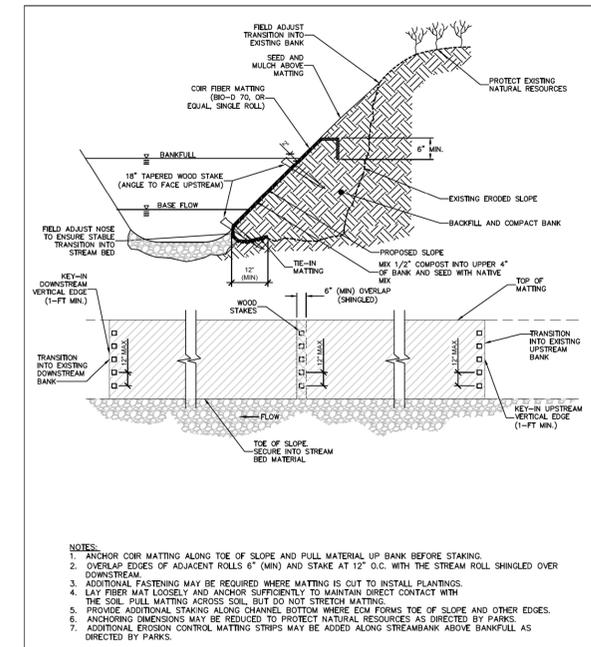
Material Size	Percentage of BSM
BRG/Native SBM	40%
Woodchips	10%
Surge Stone	20%
Class I	30%
Total:	100%

Type D: For mid-size channels (Bfw<18') with moderate-high stresses.

Material Size	Percentage of BSM
BRG/Native SBM	30%
Class O	20%
Class I	20%
Class II	30%
Total:	100%

NATIVE RIPARIAN SEED MIX

PERCENT	COMMON NAME	SCIENTIFIC NAME
25%	VIRGINIA WILD RYE	<i>Elymus virginicus</i>
10%	ANNUAL RYE	<i>Lolium multiflorum</i>
20%	RIVERBANK WILD RYE	<i>Elymus riparius</i>
15%	RED FESCUE	<i>Festuca rubra L</i>
10%	DEERTONGUE	<i>Dischanthelium clandestinum</i>
20%	BOTTLEBRUSH	<i>Elymus hystrix</i>



EROSION CONTROL MATTING (ECM) DETAIL

The Maryland-National Capital Park and Planning Commission
Montgomery County Department of Parks

Detail No.

623

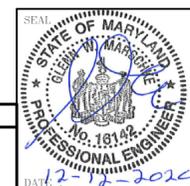
JUNE 2018

SEE MONTGOMERY PARKS BED STABILITY MIX (BSM) TABLES (THIS SHEET) FOR TYPE A BSM AND TYPE D BSM SPECIFICATIONS

WALLACE MONTGOMERY
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GLENN W. MARSCHKE MD NO-16142 EXP-08/17/2026



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

FOR SIGNATURES SEE TITLE SHEET

Chief, Design Section

Date

APPROVED

FOR SIGNATURES SEE TITLE SHEET

Chief, Division of Engineering Services

Date

Designed by : L.E.W. Drawn by : L.E.W. Checked by : C.V.M.

PLAN SHEET SR-03
STREAM RESTORATION TYP. SECTIONS
MD 355 - CLARKSBURG
SHARED USE PATH

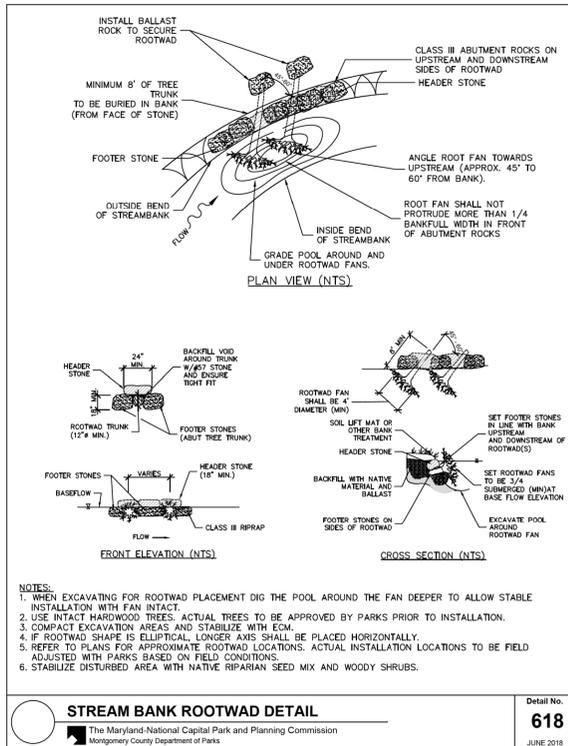
SCALE: N.T.S.

02/2025

Project No. : C.I.P. PR. # 501744 SHEET 18 of 97

PLOTTED: 6/12/2025
FILE: I:\PROJECTS\14013.0010\Highways\Cadd-Drainage\pSR-P003_MD355.dgn

DPS FILE NO. SC0017 OF SC0047



NOTES:
 1. WHEN EXCAVATING FOR ROOTWAD PLACEMENT DIG THE POOL AROUND THE FAN DEEPER TO ALLOW STABLE INSTALLATION WITH FAN INTACT.
 2. USE INTACT HARDWOOD TREES. ACTUAL TREES TO BE APPROVED BY PARKS PRIOR TO INSTALLATION.
 3. COMPACT EXCAVATION AREAS AND STABILIZE WITH ECM.
 4. IF ROOTWAD SHAPE IS ELLIPTICAL LONGER AXIS SHALL BE PLACED HORIZONTALLY.
 5. REFER TO PLANS FOR APPROXIMATE ROOTWAD LOCATIONS. ACTUAL INSTALLATION LOCATIONS TO BE FIELD ADJUSTED WITH PARKS BASED ON FIELD CONDITIONS.
 6. STABILIZE DISTURBED AREA WITH NATIVE RIPARIAN SEED MIX AND WOODY SHRUBS.

STREAM BANK ROOTWAD DETAIL
 The Maryland-National Capital Park and Planning Commission
 Montgomery County Department of Parks
618
 JUNE 2018

NOTE: SEE DWG. NO. SR-OI (SC0015) FOR ROOTWAD LOCATIONS.

Montgomery Parks Construction Notes for Stream Restoration on Parkland

- A pre-construction meeting with the M-NCPPC (Parks) Construction Inspector, DPS SC Inspector, Urban Forester, Park Manager, Engineer, Contractor, and applicant's Stream Restoration Professional (SRP) shall occur to ensure full understanding of the project goals, design intent, and field conditions at the time of construction. (The applicant is responsible for coordination with MDE and other regulatory agencies as required by permits.) Contact Jay Childs, Park Construction Manager, at 301.495.2574 to schedule this meeting.
- Contractor shall be familiar with and implement MDE Waterway Construction Guidelines and MDE Best Management Practices for Working in Nontidal Wetlands, Wetland Buffers, Waterways, and 100-Year Floodplain throughout construction. All in-channel construction shall occur "in the dry" with appropriate pump-around practices.
- The applicant shall engage a SRP, an individual familiar with stream restoration revetment design features and waterway construction techniques, to oversee in-stream construction activities to ensure stable channel construction, including appropriate field adjustments and natural resources protection. The applicant shall empower this person to direct Contractor's work as needed to ensure design intent is achieved. This person shall coordinate all adjustments and acceptance of structures with DPS and Parks as construction progresses.
- Parks and/or DPS, in coordination with the SRP and contractor, may require minor adjustments to the layout/elevation of in-stream structures, streambank stabilization, and grading during construction to minimize disturbance to trees/tree roots and to ensure functionality of completed construction. Note that the contractor shall take care to protect trunks/roots designated to remain throughout construction.
- Contractor shall layout critical design points (centerline station, offsets, elevations, structures, etc.) along the stream channel for review prior to structure installation. SRP shall coordinate with Parks and DPS to adjust/confirm stakeout to ensure channel stability and protect natural resources. Contractor shall be responsible for maintaining stakeout during construction until final acceptance by Parks and DPS. Contractor shall maintain laser level equipment onsite to check grades as construction progresses.
- Construction of in-stream revetments, including grade control, bank stabilization and habitat structures, shall be inspected by SRP, DPS, and Parks under baseflow (not pump-around) conditions to determine any modifications required prior to acceptance. Additional inspections following storm events may result in additional modifications. Contractor is encouraged to utilize construction equipment for compaction of completed structures to ensure stability.
- Access routes and staging areas shall be field adjusted with Parks and DPS to minimize impacts to natural resources. Equipment restrictions (e.g., <8 psi loaded ground pressure) may be required by Parks and/or DPS in sensitive areas. Access routes will be limited to 12' width, unless otherwise approved by Parks and/or DPS.
- Contractor shall coordinate all tree protection measures and tree removals with Parks and DPS prior to construction. Protection measures, such as hardwood mats, tree planking, root aeration matting, equipment restrictions, mulch roads, tree protection fencing, etc. must be installed before equipment enters root areas.

Revised 06.01.18

- Contractor shall coordinate with DPS Sediment Control Inspector and Parks to utilize trenchless sediment controls (i.e. compost socks, trenchless silt fences, etc.) and/or daily stabilization to avoid cutting through mature tree root systems. Where trenching is required, root prune prior to excavation at the direction of Parks and DPS.
- Tree trunk/root systems to remain shall not be damaged during placement of riprap, vegetated rock packs, riffle grade controls, rock skills, and other revetments. Exact extent/orientation of stone placement shall be adjusted in the field, and work completed in a manner that minimizes impacts to terrestrial and aquatic natural resources.
- Contractor is responsible for control of water throughout construction, including stream flows and runoff through disturbed areas.
- In-stream areas where pump-around is removed at the end of the workday must be completed and stabilized daily. Disturbed areas above baseflow shall receive seed/mulch at the end of each workday. Once stream flow is re-established at the end of the workday, the contractor shall allow sufficient time to inspect the new flow pattern and make appropriate adjustments to ensure non-erosive conditions before vacating the site.
- Contractor is responsible for ensuring smooth transitions at upstream and downstream ends of work areas and between the streambed and its banks.
- Upon completion of in-stream revetments and channel grading, thalweg to be reestablished as directed by the SRP, DPS and Parks.
- All exposed stone (including stone toe, imbricated rock walls, rock packs, etc.) above bankfull depth shall be backfilled with topsoil/compost to within 2-inches of rock surface and vegetated with native riparian seed and mulched.
- Voids should not be left in any completed in-stream structures. Structures should be chinked in with BSM and/or stream bed mix to fill all voids. Constructed riffles and other grade control revetments will not be accepted by Parks and DPS until surficial baseflow is established.
- Applicant is responsible for completing fish rescues associated with all pump-arounds. Fish rescue teams should consist of properly trained personnel, based on Maryland Biological Stream Survey (MBSS) standards. A list of personnel certified in MBSS protocols can be found at <http://www.dnr.maryland.gov/streams/MBSSRegistry.asp>. Fish rescues require three (3) working days advanced notice to Parks and DPS.
- Where fish pool/aquatic habitat is specified for preservation or enhancement, completed construction should favor the following conditions:
 - Root-water interaction at baseflow
 - Maintaining void space between roots and undercut banks
 - Restoring post-construction flow patterns to provide adequate scour depth to naturally wash out pools and maintain adequate habitat
- Completed streambed profile shall not have revetment drops greater than six inches and constructed riffles shall not be steeper than 3% to ensure fish passage. Contractor will be required to modify/augment constructed revetments that exceed limits, or otherwise create fish passage restrictions at baseflow, as directed by SRP, DPS, and Parks.

Revised 06.01.18

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 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.
 GLENN W. MARSCHKE MD NO-16142 EXP-06/17/2026



NO.	REVISION	DATE	BY

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

RECOMMENDED FOR APPROVAL
 FOR SIGNATURES SEE TITLE SHEET
 Chief, Design Section
 Date

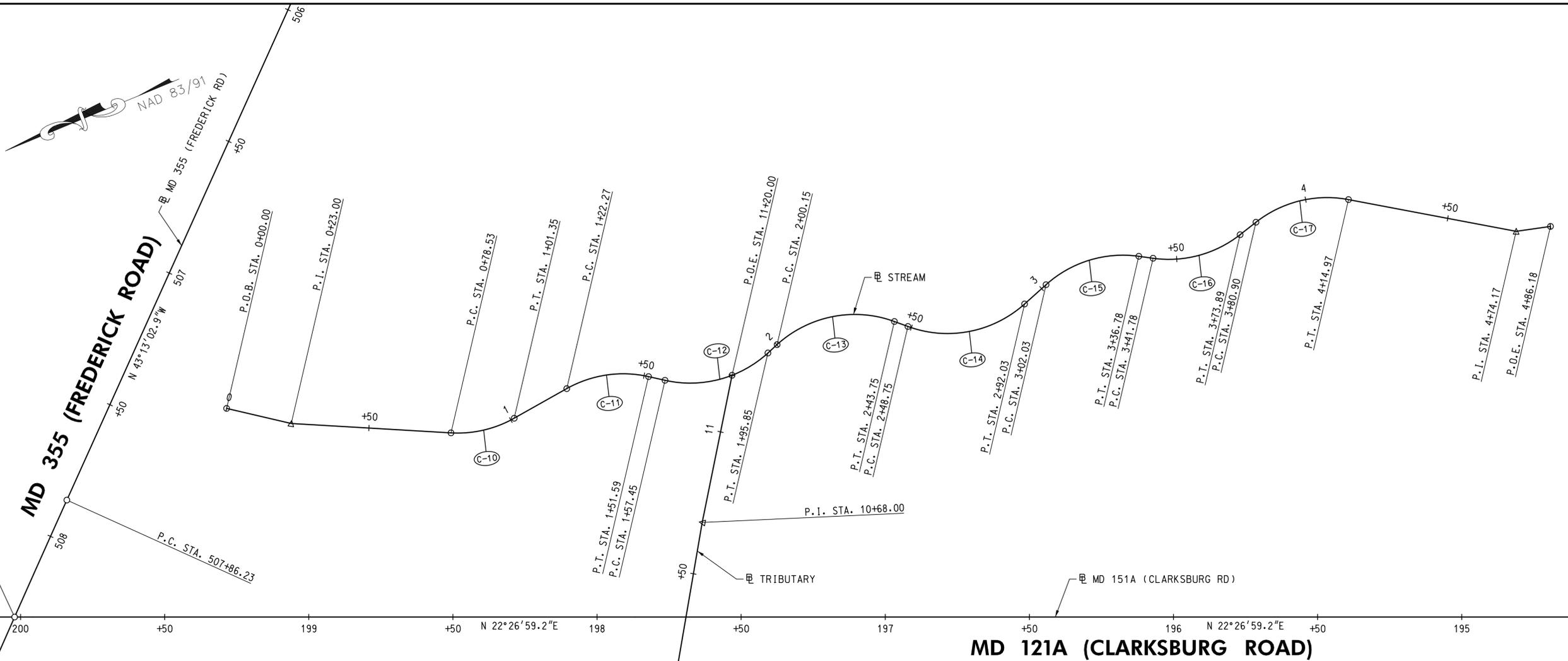
APPROVED
 FOR SIGNATURES SEE TITLE SHEET
 Chief, Division of Engineering Services
 Date

Designed by : L.E.W. Drawn by : L.E.W. Checked by : C.V.M.

PLAN SHEET SR-05
STREAM RESTORATION DETAILS
MD 355 - CLARKSBURG
SHARED USE PATH

SCALE: N.T.S. 02/2025

Project No. : C.I.P. PR. # 501744 SHEET 20 of 97



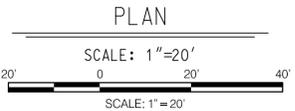
P.O.T. STA. 200+02.06=
P.O.C. STA. 508+30.57

P.C. STA. 200+53.38

POINT DESCR.	STATION	COORDINATES		BEARING
		NORTH	EAST	
P.O.B.	0+00.00	573,104.4258	1,232,730.2656	S 35°33'49.1" W
P.I.	0+23.00	573,085.7160	1,232,716.8886	
P.C.	0+78.53	573,035.7148	1,232,692.7228	S 25°47'41.2" W
P.I.	0+90.26	573,025.1560	1,232,687.6196	
P.T.	1+01.35	573,013.5131	1,232,689.0256	S 06°53'09.5" E
P.C.	1+22.27	572,992.7467	1,232,691.5335	
P.I.	1+37.62	572,977.5028	1,232,693.3744	
P.T.	1+51.59	572,964.9425	1,232,684.5422	S 35°06'51.9" W
P.C.	1+57.45	572,960.1500	1,232,681.1722	
P.I.	1+78.27	572,943.1158	1,232,669.1939	
P.T.	1+95.85	572,923.5338	1,232,676.2782	S 19°53'19.8" E
P.C.	2+00.15	572,919.4866	1,232,677.7424	
P.I.	2+24.40	572,896.6841	1,232,685.9917	
P.T.	2+43.75	572,878.8236	1,232,669.5903	S 42°33'41.1" W
P.C.	2+48.75	572,875.1408	1,232,666.2084	
P.I.	2+72.78	572,857.4404	1,232,649.9541	
P.T.	2+92.03	572,834.7780	1,232,657.9491	S 19°25'55.6" E
P.C.	3+02.03	572,825.3476	1,232,661.2760	
P.I.	3+20.58	572,807.8499	1,232,667.4489	
P.T.	3+36.78	572,791.8360	1,232,658.0769	S 30°20'17.0" W
P.C.	3+41.78	572,787.5207	1,232,655.5514	
P.I.	3+58.76	572,772.8645	1,232,646.9740	
P.T.	3+73.89	572,756.5139	1,232,651.5602	S 15°40'06.2" E
P.C.	3+80.90	572,749.7726	1,232,653.4511	
P.I.	3+99.05	572,732.2975	1,232,658.3527	
P.T.	4+14.97	572,717.1008	1,232,648.4299	S 33°08'34.1" W
P.I.	4+74.17	572,667.5362	1,232,616.0664	
P.O.E.	4+86.18	572,655.8984	1,232,613.0878	S 14°21'22.2" W

CURVE	RADIUS	DELTA	Dc	LENGTH	TANGENT	CHORD	EXTERNAL
C-10	40.00'	32°40'50.7" LT.	143°14'22.0"	22.82'	11.73'	22.51'	1.68'
C-11	40.00'	42°00'01.4" RT.	143°14'22.0"	29.32'	15.35'	28.67'	2.85'
C-12	40.00'	55°00'11.7" LT.	143°14'22.0"	38.40'	20.82'	36.94'	5.10'
C-13	40.00'	62°27'00.9" RT.	143°14'22.0"	43.60'	24.25'	41.47'	6.78'
C-14	40.00'	61°59'36.7" LT.	143°14'22.0"	43.28'	24.03'	41.20'	6.66'
C-15	40.00'	49°46'12.6" RT.	143°14'22.0"	34.75'	18.55'	33.66'	4.09'
C-16	40.00'	46°00'23.2" LT.	143°14'22.0"	32.12'	16.98'	31.26'	3.46'
C-17	40.00'	48°48'40.3" RT.	143°14'22.0"	34.08'	18.15'	33.06'	3.93'

POINT DESCR.	STATION	COORDINATES		BEARING
		NORTH	EAST	
P.O.B.	10+00.00	573,003.2742	1,232,573.2328	S 57°47'03.7" E
P.I.	10+68.00	572,967.0229	1,232,630.7641	
P.O.E.	11+20.00	572,937.9853	1,232,673.9013	S 56°03'13.3" W



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 A Limited Liability Partnership

PROFESSIONAL CERTIFICATION
I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME AND THAT I AM A FULLY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND.
GLENN W. MARSCHKE MD NO-16142 EXP-08/17/2026



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
FOR SIGNATURES SEE TITLE SHEET
Chief, Design Section
APPROVED
FOR SIGNATURES SEE TITLE SHEET
Chief, Division of Engineering Services

Designed by : L.E.W. Drawn by : L.E.W. Checked by : C.V.M.

PLAN SHEET SR-06
STREAM RESTORATION GEOM. LAYOUT
MD 355 - CLARKSBURG
SHARED USE PATH

SCALE: 1"= 20' 02/2025

Project No. : C.I.P. PR. # 501744 SHEET 21 of 97

STORMWATER MANAGEMENT AS-BUILT CERTIFICATION

I HEREBY CERTIFY THAT THE STORMWATER MANAGEMENT FACILITY (FACILITIES) SHOWN ON THE PLANS AND INDIVIDUALLY IDENTIFIED BELOW HAS (HAVE) BEEN CONSTRUCTED IN ACCORDANCE WITH THE PLANS INCLUDED UNDER THE STATE HIGHWAY ADMINISTRATION PLAN REVIEW DIVISION APPROVAL NUMBER - PR - EXCEPT AS NOTED IN GREEN ON THE "AS-BUILT" DRAWINGS. FURTHERMORE, THE GREEN-NOTED EXCEPTIONS DO NOT ADVERSELY AFFECT THE DESIGN AND/OR THE INTENDED PERFORMANCE OF THE FACILITY (FACILITIES).

PERMEABLE PAVEMENT 1-2 (SHA BMP NO. 151566)
PERMEABLE PAVEMENT 1-3 (SHA BMP NO. 151567)
PERMEABLE PAVEMENT 1-4 (SHA BMP NO. 151568)
GRASS SWALE 3-1 (SHA BMP NO. 151569)

EACH SWM FACILITY IS IDENTIFIED INDIVIDUALLY BY A UNIQUE SWM FACILITY NUMBER

Name (Printed) _____ Signature _____
 Maryland Registration Number _____ Date _____

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

"CERTIFY" MEANS TO STATE OR DECLARE A PROFESSIONAL OPINION BASED ON SUFFICIENT AND APPROPRIATE: ON-SITE INSPECTIONS AND MATERIAL TESTS CONDUCTED DURING CONSTRUCTION.

NOTE: AS-BUILT CHECKLISTS CONTAINED IN THE CONTRACT DRAWINGS SHALL BE COMPLETED BY THE AS-BUILT INSPECTOR AND SUBMITTED TO THE SHA ALONG WITH THIS CERTIFICATION.

PERMEABLE PAVEMENT 1-1
Montgomery County
Department of Permitting Services
 255 Rockville Pike, 2nd Floor
 Rockville, MD 20850-4166
 Phone: 311 in Montgomery County or (240)777-0311
 Fax: (240)777-6262
<http://www.montgomerycountymd.gov/permittingservices>

CONSTRUCTION INSPECTION CHECK-OFF LIST FOR PERMEABLE PAVEMENTS

STAGE	MCDCPS INSPECTOR	OWNER/DEVELOPER
INITIALS/DATE	INITIALS/DATE	INITIALS/DATE
MANDATORY NOTIFICATION: Inspection and approval of each practice is required at these points prior to proceeding with construction. The permittee is required to give the MCDCPS Inspector twenty-four (24) hours notice (DPS telephone 240-777-0311). The DPS Inspector may waive an inspection, and allow the owner/developer to make the required inspection per a prior scheduled arrangement which has been confirmed with the DPS Inspector in writing. Work completed without MCDCPS approval may result in the permittee having to remove and reconstruct the unapproved work. Upon completion of the project, a formal Stormwater Management As-Built must be submitted to MCDCPS unless a Record Drawing Certification has been allowed instead. Each of the steps listed below must be verified by either the MCDCPS Inspector OR the Owner/Developer.		
1. Excavation to subgrade conforms to approved plans		
2. Placement and backfill of any drainage or distribution systems conforms to approved plans		
3. Placement of crushed stone subbase conforms to approved plans		
4. Placement of surface material conforms to approved plans		
5. Final grading and permanent stabilization conforms to approved plans		

PERMEABLE PAVEMENT 1-2
Montgomery County
Department of Permitting Services
 255 Rockville Pike, 2nd Floor
 Rockville, MD 20850-4166
 Phone: 311 in Montgomery County or (240)777-0311
 Fax: (240)777-6262
<http://www.montgomerycountymd.gov/permittingservices>

CONSTRUCTION INSPECTION CHECK-OFF LIST FOR PERMEABLE PAVEMENTS

STAGE	MCDCPS INSPECTOR	OWNER/DEVELOPER
INITIALS/DATE	INITIALS/DATE	INITIALS/DATE
MANDATORY NOTIFICATION: Inspection and approval of each practice is required at these points prior to proceeding with construction. The permittee is required to give the MCDCPS Inspector twenty-four (24) hours notice (DPS telephone 240-777-0311). The DPS Inspector may waive an inspection, and allow the owner/developer to make the required inspection per a prior scheduled arrangement which has been confirmed with the DPS Inspector in writing. Work completed without MCDCPS approval may result in the permittee having to remove and reconstruct the unapproved work. Upon completion of the project, a formal Stormwater Management As-Built must be submitted to MCDCPS unless a Record Drawing Certification has been allowed instead. Each of the steps listed below must be verified by either the MCDCPS Inspector OR the Owner/Developer.		
1. Excavation to subgrade conforms to approved plans		
2. Placement and backfill of any drainage or distribution systems conforms to approved plans		
3. Placement of crushed stone subbase conforms to approved plans		
4. Placement of surface material conforms to approved plans		
5. Final grading and permanent stabilization conforms to approved plans		

PERMEABLE PAVEMENT 1-3
Montgomery County
Department of Permitting Services
 255 Rockville Pike, 2nd Floor
 Rockville, MD 20850-4166
 Phone: 311 in Montgomery County or (240)777-0311
 Fax: (240)777-6262
<http://www.montgomerycountymd.gov/permittingservices>

CONSTRUCTION INSPECTION CHECK-OFF LIST FOR PERMEABLE PAVEMENTS

STAGE	MCDCPS INSPECTOR	OWNER/DEVELOPER
INITIALS/DATE	INITIALS/DATE	INITIALS/DATE
MANDATORY NOTIFICATION: Inspection and approval of each practice is required at these points prior to proceeding with construction. The permittee is required to give the MCDCPS Inspector twenty-four (24) hours notice (DPS telephone 240-777-0311). The DPS Inspector may waive an inspection, and allow the owner/developer to make the required inspection per a prior scheduled arrangement which has been confirmed with the DPS Inspector in writing. Work completed without MCDCPS approval may result in the permittee having to remove and reconstruct the unapproved work. Upon completion of the project, a formal Stormwater Management As-Built must be submitted to MCDCPS unless a Record Drawing Certification has been allowed instead. Each of the steps listed below must be verified by either the MCDCPS Inspector OR the Owner/Developer.		
1. Excavation to subgrade conforms to approved plans		
2. Placement and backfill of any drainage or distribution systems conforms to approved plans		
3. Placement of crushed stone subbase conforms to approved plans		
4. Placement of surface material conforms to approved plans		
5. Final grading and permanent stabilization conforms to approved plans		

PERMEABLE PAVEMENT 1-4
Montgomery County
Department of Permitting Services
 255 Rockville Pike, 2nd Floor
 Rockville, MD 20850-4166
 Phone: 311 in Montgomery County or (240)777-0311
 Fax: (240)777-6262
<http://www.montgomerycountymd.gov/permittingservices>

CONSTRUCTION INSPECTION CHECK-OFF LIST FOR PERMEABLE PAVEMENTS

STAGE	MCDCPS INSPECTOR	OWNER/DEVELOPER
INITIALS/DATE	INITIALS/DATE	INITIALS/DATE
MANDATORY NOTIFICATION: Inspection and approval of each practice is required at these points prior to proceeding with construction. The permittee is required to give the MCDCPS Inspector twenty-four (24) hours notice (DPS telephone 240-777-0311). The DPS Inspector may waive an inspection, and allow the owner/developer to make the required inspection per a prior scheduled arrangement which has been confirmed with the DPS Inspector in writing. Work completed without MCDCPS approval may result in the permittee having to remove and reconstruct the unapproved work. Upon completion of the project, a formal Stormwater Management As-Built must be submitted to MCDCPS unless a Record Drawing Certification has been allowed instead. Each of the steps listed below must be verified by either the MCDCPS Inspector OR the Owner/Developer.		
1. Excavation to subgrade conforms to approved plans		
2. Placement and backfill of any drainage or distribution systems conforms to approved plans		
3. Placement of crushed stone subbase conforms to approved plans		
4. Placement of surface material conforms to approved plans		
5. Final grading and permanent stabilization conforms to approved plans		

PERMEABLE PAVEMENT 1-2
SWM FACILITY AS-BUILT CERTIFICATION DATA TABLE FOR A-2 PERMEABLE PAVEMENTS
 MAY ONLY BE CERTIFIED BY THE AS-BUILT (AB) INSPECTOR PER COMAR 26.17.02.10.

SWM FACILITY NUMBER	MDE/PRD NUMBER	SHA CONTRACT NUMBER
151566	17APM0013XX	

ACTIVITY	SUPPORTING DOCUMENTATION AND INFORMATION (SUBMIT WITH SWM FACILITY AS-BUILT CERTIFICATION PACKAGE)	DATE(S) OF INSPECTION
PRIOR TO EXCAVATION, VERIFIED ESC MEASURES ARE INSTALLED AROUND THE PERMEABLE PAVEMENTS OR CONFIRMED SURROUNDING AREA IS STABILIZED, AND CONFIRMED FACILITY STAKEOUT	<input type="checkbox"/> INSPECTION REPORT <input type="checkbox"/> PHOTOGRAPHS <input type="checkbox"/> OTHER (LIST):	
OBSERVED EXCAVATION OF PERMEABLE PAVEMENT AREA	<input type="checkbox"/> PHOTOGRAPHS <input type="checkbox"/> INSPECTION REPORT <input type="checkbox"/> OTHER (LIST):	
VERIFIED BOTTOM OF EXCAVATION IS LEVEL	<input type="checkbox"/> PHOTOGRAPHS <input type="checkbox"/> INSPECTION REPORT <input type="checkbox"/> OTHER (LIST):	
OBSERVED INSTALLATION OF GEOTEXTILE	<input type="checkbox"/> PHOTOGRAPHS <input type="checkbox"/> INSPECTION REPORT <input type="checkbox"/> OTHER (LIST):	
OBSERVED INSTALLATION OF AGGREGATE	<input type="checkbox"/> PHOTOGRAPHS <input type="checkbox"/> INSPECTION REPORT <input type="checkbox"/> OTHER (LIST):	
OBSERVED INSTALLATION OF PERMEABLE PAVEMENT	<input type="checkbox"/> INSPECTION REPORT <input type="checkbox"/> PHOTOGRAPHS <input type="checkbox"/> OTHER (LIST):	

FEATURE	DESIGN	AS-BUILT	DIFFERENCE
PERMEABLE PAVEMENT WIDTH (FT)	8.0 FT.		
PERMEABLE PAVEMENT LENGTH (FT)	28 FT.		
MAXIMUM PERMEABLE PAVEMENT LONGITUDINAL SLOPE (FT/FT) - MAY NOT EXCEED 5%	2.8%		
MAXIMUM PERMEABLE PAVEMENT CROSS SLOPE (FT/FT)	2%		
DEPTH OF AGGREGATE (FT)	1.0 FT.		
THICKNESS OF PERMEABLE PAVEMENT (FT)	5 IN.		

SWM FACILITY AS-BUILT CERTIFICATION ACCEPTANCE APPROVING AUTHORITY: MDE PRD
 ACCEPTED BY: _____ (NAME) DATE: _____

REVISED 10-20-2017

PERMEABLE PAVEMENT 1-3
SWM FACILITY AS-BUILT CERTIFICATION DATA TABLE FOR A-2 PERMEABLE PAVEMENTS
 MAY ONLY BE CERTIFIED BY THE AS-BUILT (AB) INSPECTOR PER COMAR 26.17.02.10.

SWM FACILITY NUMBER	MDE/PRD NUMBER	SHA CONTRACT NUMBER
151567	17APM0013XX	

ACTIVITY	SUPPORTING DOCUMENTATION AND INFORMATION (SUBMIT WITH SWM FACILITY AS-BUILT CERTIFICATION PACKAGE)	DATE(S) OF INSPECTION
PRIOR TO EXCAVATION, VERIFIED ESC MEASURES ARE INSTALLED AROUND THE PERMEABLE PAVEMENTS OR CONFIRMED SURROUNDING AREA IS STABILIZED, AND CONFIRMED FACILITY STAKEOUT	<input type="checkbox"/> INSPECTION REPORT <input type="checkbox"/> PHOTOGRAPHS <input type="checkbox"/> OTHER (LIST):	
OBSERVED EXCAVATION OF PERMEABLE PAVEMENT AREA	<input type="checkbox"/> PHOTOGRAPHS <input type="checkbox"/> INSPECTION REPORT <input type="checkbox"/> OTHER (LIST):	
VERIFIED BOTTOM OF EXCAVATION IS LEVEL	<input type="checkbox"/> PHOTOGRAPHS <input type="checkbox"/> INSPECTION REPORT <input type="checkbox"/> OTHER (LIST):	
OBSERVED INSTALLATION OF GEOTEXTILE	<input type="checkbox"/> PHOTOGRAPHS <input type="checkbox"/> INSPECTION REPORT <input type="checkbox"/> OTHER (LIST):	
OBSERVED INSTALLATION OF AGGREGATE	<input type="checkbox"/> PHOTOGRAPHS <input type="checkbox"/> INSPECTION REPORT <input type="checkbox"/> OTHER (LIST):	
OBSERVED INSTALLATION OF PERMEABLE PAVEMENT	<input type="checkbox"/> INSPECTION REPORT <input type="checkbox"/> PHOTOGRAPHS <input type="checkbox"/> OTHER (LIST):	

FEATURE	DESIGN	AS-BUILT	DIFFERENCE
PERMEABLE PAVEMENT WIDTH (FT)	8.0 FT.		
PERMEABLE PAVEMENT LENGTH (FT)	102 FT.		
MAXIMUM PERMEABLE PAVEMENT LONGITUDINAL SLOPE (FT/FT) - MAY NOT EXCEED 5%	2.8%		
MAXIMUM PERMEABLE PAVEMENT CROSS SLOPE (FT/FT)	2%		
DEPTH OF AGGREGATE (FT)	1.0 FT.		
THICKNESS OF PERMEABLE PAVEMENT (FT)	5 IN.		

SWM FACILITY AS-BUILT CERTIFICATION ACCEPTANCE APPROVING AUTHORITY: MDE PRD
 ACCEPTED BY: _____ (NAME) DATE: _____

REVISED 10-20-2017

PERMEABLE PAVEMENT 1-4
SWM FACILITY AS-BUILT CERTIFICATION DATA TABLE FOR A-2 PERMEABLE PAVEMENTS
 MAY ONLY BE CERTIFIED BY THE AS-BUILT (AB) INSPECTOR PER COMAR 26.17.02.10.

SWM FACILITY NUMBER	MDE/PRD NUMBER	SHA CONTRACT NUMBER
151568	17APM0013XX	

ACTIVITY	SUPPORTING DOCUMENTATION AND INFORMATION (SUBMIT WITH SWM FACILITY AS-BUILT CERTIFICATION PACKAGE)	DATE(S) OF INSPECTION
PRIOR TO EXCAVATION, VERIFIED ESC MEASURES ARE INSTALLED AROUND THE PERMEABLE PAVEMENTS OR CONFIRMED SURROUNDING AREA IS STABILIZED, AND CONFIRMED FACILITY STAKEOUT	<input type="checkbox"/> INSPECTION REPORT <input type="checkbox"/> PHOTOGRAPHS <input type="checkbox"/> OTHER (LIST):	
OBSERVED EXCAVATION OF PERMEABLE PAVEMENT AREA	<input type="checkbox"/> PHOTOGRAPHS <input type="checkbox"/> INSPECTION REPORT <input type="checkbox"/> OTHER (LIST):	
VERIFIED BOTTOM OF EXCAVATION IS LEVEL	<input type="checkbox"/> PHOTOGRAPHS <input type="checkbox"/> INSPECTION REPORT <input type="checkbox"/> OTHER (LIST):	
OBSERVED INSTALLATION OF GEOTEXTILE	<input type="checkbox"/> PHOTOGRAPHS <input type="checkbox"/> INSPECTION REPORT <input type="checkbox"/> OTHER (LIST):	
OBSERVED INSTALLATION OF AGGREGATE	<input type="checkbox"/> PHOTOGRAPHS <input type="checkbox"/> INSPECTION REPORT <input type="checkbox"/> OTHER (LIST):	
OBSERVED INSTALLATION OF PERMEABLE PAVEMENT	<input type="checkbox"/> INSPECTION REPORT <input type="checkbox"/> PHOTOGRAPHS <input type="checkbox"/> OTHER (LIST):	

FEATURE	DESIGN	AS-BUILT	DIFFERENCE
PERMEABLE PAVEMENT WIDTH (FT)	9.0 FT.		
PERMEABLE PAVEMENT LENGTH (FT)	132 FT.		
MAXIMUM PERMEABLE PAVEMENT LONGITUDINAL SLOPE (FT/FT) - MAY NOT EXCEED 5%	0.7%		
MAXIMUM PERMEABLE PAVEMENT CROSS SLOPE (FT/FT)	2%		
DEPTH OF AGGREGATE (FT)	1.0 FT.		
THICKNESS OF PERMEABLE PAVEMENT (FT)	5 IN.		

SWM FACILITY AS-BUILT CERTIFICATION ACCEPTANCE APPROVING AUTHORITY: MDE PRD
 ACCEPTED BY: _____ (NAME) DATE: _____

REVISED 10-20-2017

GRASS SWALE 3-1
SWM FACILITY AS-BUILT CERTIFICATION DATA TABLE FOR M-8 GRASS SWALES
 MAY ONLY BE CERTIFIED BY THE AS-BUILT (AB) INSPECTOR PER COMAR 26.17.02.10.

SWM FACILITY NUMBER	MDE/PRD NUMBER	SHA CONTRACT NUMBER
151569	17APM0013XX	

ACTIVITY	SUPPORTING DOCUMENTATION AND INFORMATION (SUBMIT WITH SWM FACILITY AS-BUILT CERTIFICATION PACKAGE)	DATE(S) OF INSPECTION
PRIOR TO SWM FACILITY EXCAVATION, OBSERVED ESC MEASURES ARE INSTALLED AROUND THE FACILITY OR CONFIRMED SURROUNDING AREA IS STABILIZED	<input type="checkbox"/> INSPECTION REPORT <input type="checkbox"/> PHOTOGRAPHS	
OBSERVED EXCAVATION OF SWM FACILITY	<input type="checkbox"/> INSPECTION REPORT <input type="checkbox"/> PHOTOGRAPHS	
OBSERVED INSTALLATION OF CHECK DAMS	<input type="checkbox"/> INSPECTION REPORT <input type="checkbox"/> PHOTOGRAPHS	
OBSERVED INSTALLATION OF RELEASE STRUCTURE	<input type="checkbox"/> INSPECTION REPORT <input type="checkbox"/> PHOTOGRAPHS <input type="checkbox"/> RELEASE STRUCTURE: <input type="checkbox"/> INLET <input type="checkbox"/> WEIR <input type="checkbox"/> CHECK DAM <input type="checkbox"/> OUTFALL <input type="checkbox"/> NOT APPLICABLE <input type="checkbox"/> OTHER (WRITE IN):	
OBSERVED FINAL GRADING OF SWM FACILITY	<input type="checkbox"/> INSPECTION REPORT <input type="checkbox"/> PHOTOGRAPHS	
VERIFIED ESTABLISHMENT OF TURFGRASS SOO OR SOIL STABILIZATION MATTING AND TURFGRASS SEED	<input type="checkbox"/> INSPECTION REPORT <input type="checkbox"/> PHOTOGRAPHS <input type="checkbox"/> LANDSCAPE ACCEPTANCE LETTER	

FEATURE	DESIGN	AS-BUILT	DIFFERENCE
BOTTOM WIDTH (FT) - MAY NOT BE LESS THAN 2 FT OR EXCEED 8 FT	2 FT.		
TOTAL LENGTH (FT)	111 FT.		
MAXIMUM CHANNEL SLOPE (FT/FT) - MAY NOT EXCEED 4%	1.7%		
LEFT SIDE SLOPE (H:V) - MAY NOT BE STEEPER THAN 3:1	4:1		
RIGHT SIDE SLOPE (H:V) - MAY NOT BE STEEPER THAN 3:1	4:1		
NUMBER OF CHECK DAMS	0		
DISTANCE BETWEEN CHECK DAMS (FT)	SEE PROFILE		
CHECK DAM HEIGHT (FT)	SEE PROFILE		
TOP OF DITCH ELEVATION (FT)	SEE PROFILE		

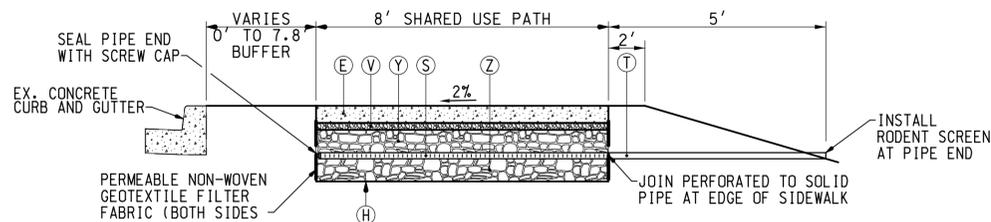
ONLY COMPLETE THE PORTION BELOW WHEN TOLERANCES ARE NOT MET. ALSO PROVIDE COMPUTATIONS AND SWM REPORT REVISIONS.

FEATURE	DESIGN	AS-BUILT	DIFFERENCE
ESD WATER SURFACE ELEVATION (FT)	656.02*		
ESD FLOW DEPTH (IN)	2.6 IN		
1-YR FLOW VELOCITY (FT/S) - MUST BE NON-EROSIVE	0.8 FPS		
10-YR WATER SURFACE ELEVATION (FT)	656.23*		
10-YR FLOW DEPTH (IN)	5.2 IN		
10-YR FLOW VELOCITY (FT/S) - MUST BE NON-EROSIVE	1.2 FPS		
10-YR FREEBOARD (IN) - MAY NOT BE LESS THAN 9 IN. - MEASURED VERTICALLY FROM 10-YR WATER SURFACE ELEVATION TO PAVEMENT EDGESHoulder	9.2 IN		

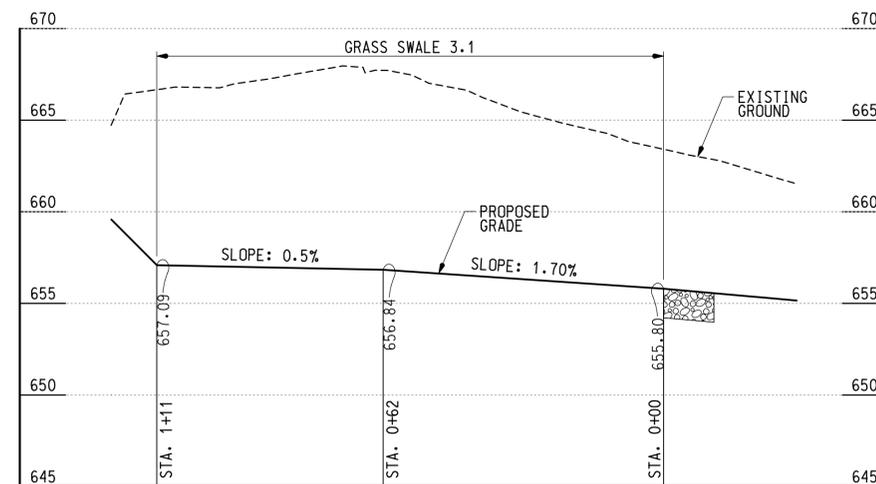
* ELEVATIONS FOR DOWNSTREAM EXTENT OF SWALE

SWM FACILITY AS-BUILT CERTIFICATION ACCEPTANCE APPROVING AUTHORITY: MDE PRD
 ACCEPTED BY: _____ (NAME) DATE: _____

REVISED 04-10-2018



- (E) 5" PERVIOUS CONCRETE SIDEWALK
- (V) 1.5" AASHTO NO. 8 CHOKER STONE COURSE
- (Y) 6" WASHED AASHTO NO. 2 AGGREGATE RESERVOIR
- (S) 4" PERFORATED PVC OVERDRAIN (8 L.F. @ 0%)
- (T) 4" SOLID PVC OVERDRAIN (5 L.F. @ 0%)
- (Z) 6" WASHED AASHTO NO. 2 AGGREGATE RESERVOIR
- (H) LIMITS OF EXCAVATION (NO GEOTEXTILE)



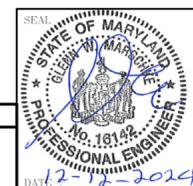
GRASS SWALE 3.1 (SHA BMP NO. 151569) - PROFILE

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

WALLACE MONTGOMERY
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 10150 York Road, Suite 200
 Hunt Valley, Maryland 21030
 410.494.9093 Tel / 410.667.0925 Fax
www.wallacemontgomery.com
 A Limited Liability Partnership

SEE SHEET DE-01 (SC0005) FOR PERMEABLE PAVEMENT TYPICAL DETAIL

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 MD NO-16142 EXP-08/17/2026



DATUM: NAD 83/91 HORIZONTAL
 NAVD 88 VERTICAL

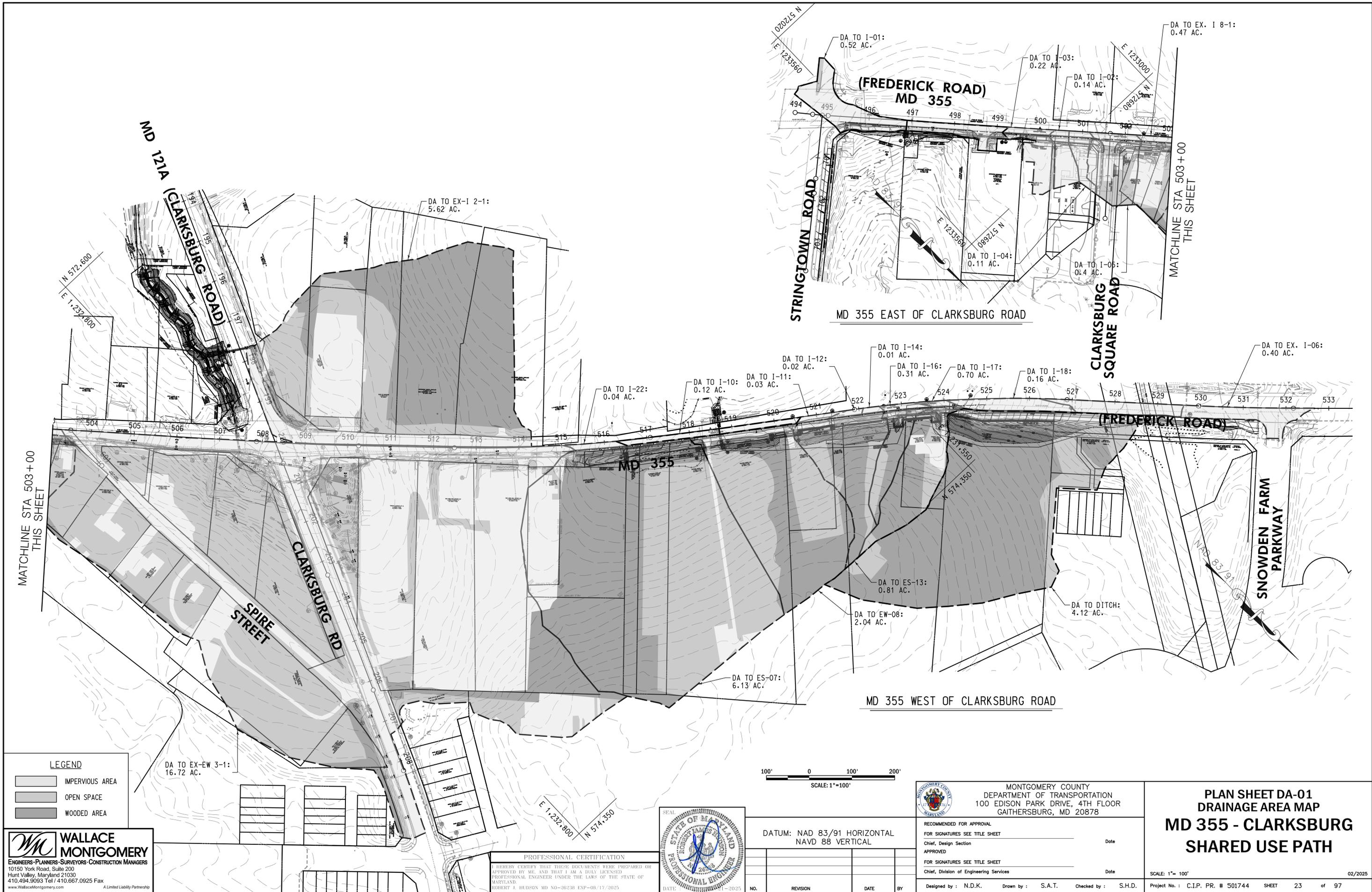


MONTGOMERY COUNTY
 DEPARTMENT OF TRANSPORTATION
 100 EDISON PARK DRIVE, 4TH FLOOR
 GAITHERSBURG, MD 20878

RECOMMENDED FOR APPROVAL
 FOR SIGNATURES SEE TITLE SHEET
 Chief, Design Section
 APPROVED
 FOR SIGNATURES SEE TITLE SHEET
 Chief, Division of Engineering Services
 Design by: L.E.W. Drawn by: L.E.W. Checked by: C.V.M.

PLAN SHEET SW-01
 STORMWATER MANAGEMENT AS-BUILT TABLES
MD 355 - CLARKSBURG
SHARED USE PATH

SCALE: N.T.S. 02/2025
 Project No.: C.I.P. PR. # 501744 SHEET 22 of 97



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RECOMMENDED FOR APPROVAL
 FOR SIGNATURES SEE TITLE SHEET
 Chief, Design Section _____ Date _____

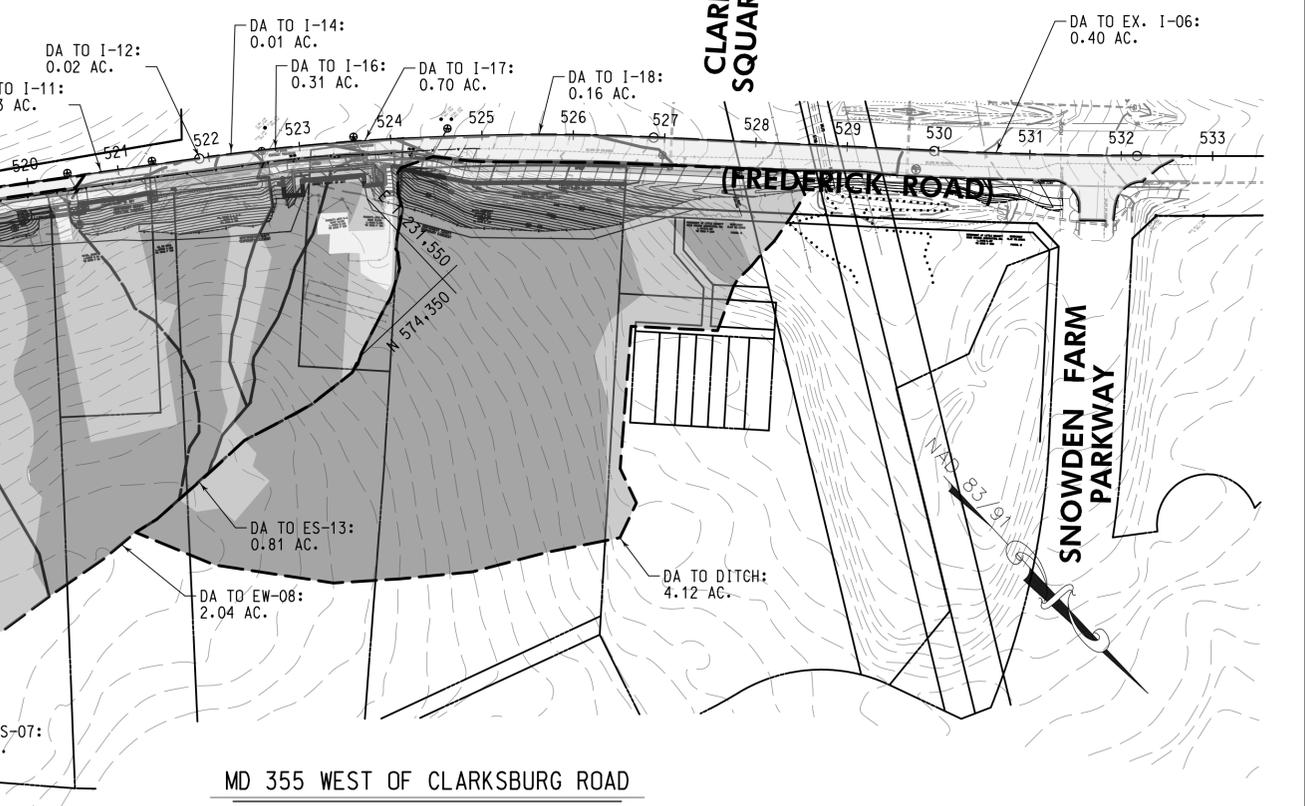
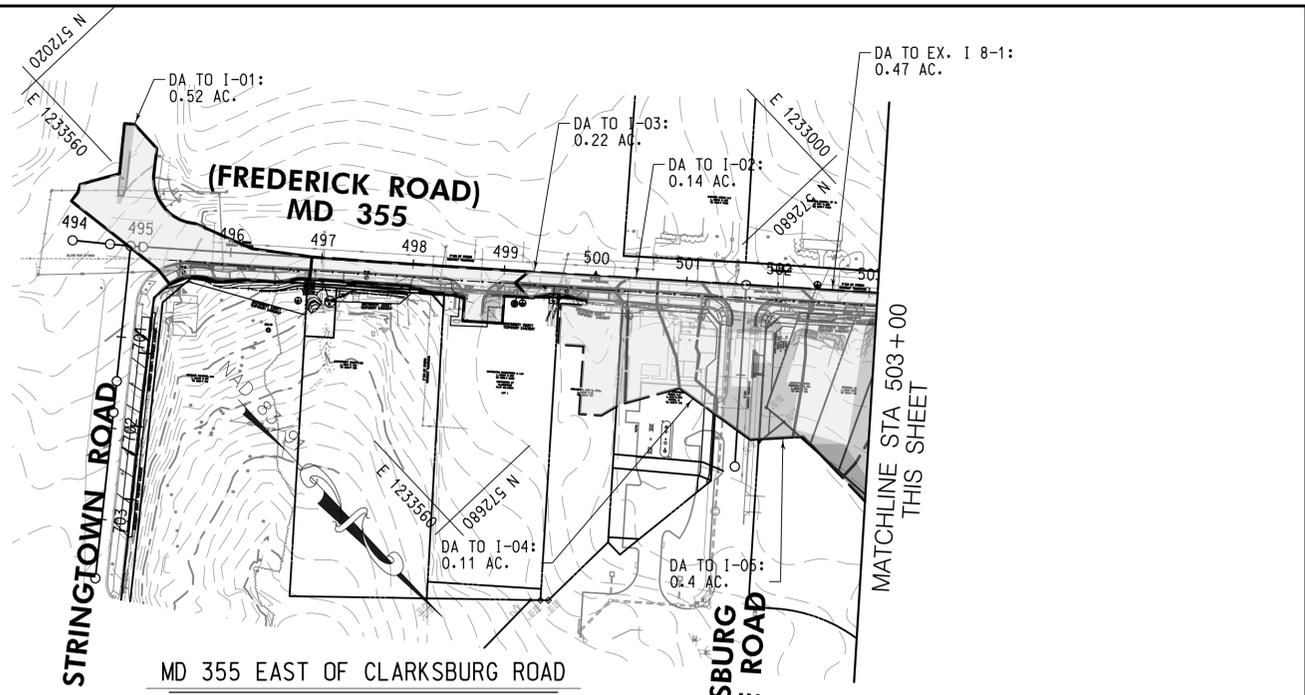
APPROVED
 FOR SIGNATURES SEE TITLE SHEET
 Chief, Division of Engineering Services _____ Date _____

Designed by : N.D.K. Drawn by : S.A.T. Checked by : S.H.D.

**PLAN SHEET DA-01
 DRAINAGE AREA MAP
 MD 355 - CLARKSBURG
 SHARED USE PATH**

SCALE: 1"=100' 02/2025

Project No. : C.I.P. PR. # 501744 SHEET 23 of 97



STRUCTURE SCHEDULE								
PLAN SHEET	NUMBER	STATION	OFFSET	TYPE	ELEVATION		STANDARD	VERTICAL DEPTH
					TOP	INV.		
SR-01	C-01	507+34.48	37.44' LT.	36" CONCRETE COLLAR	N/A	634.41	SEE DWG. NO. DD-02	N/A
PS-01	I-01	496+88.53	13.00' RT.	10' COG OPENING	657.27	N/A	MD 374.68	N/A
PS-02	I-02	500+25.07	13.00' RT.	STANDARD 10' COG INLET	662.79	652.97	MD 374.51	3.65
PS-02	I-03	499+15.20	13.00' RT.	STANDARD 15' COG INLET	660.41	651.77	MD 374.51	2.47
PS-02	I-04	501+20.27	13.00' RT.	STANDARD 10' COG INLET	663.40	657.40	MD 374.51	0.00
PS-03	I-05	502+37.34	13.00' RT.	MODIFIED 15' COG INLET *	661.55	655.55	SEE DWG. NO. DD-02	0.00
PS-04	I-22	516+47.01	13.00' RT.	MODIFIED 10' COG OPENING *	658.10	N/A	SEE DWG. NO. DD-02	N/A
PS-04	I-10	518+69.97	13.00' RT.	MODIFIED 15' COS INLET *	653.22	647.09	SEE DWG. NO. DD-02	0.00
PS-05	I-11	520+57.00	13.00' RT.	MODIFIED 10' COG OPENING *	655.56	N/A	SEE DWG. NO. DD-02	N/A
PS-05	I-12	521+33.00	13.00' RT.	MODIFIED 10' COG OPENING *	657.22	N/A	SEE DWG. NO. DD-02	N/A
PS-05	I-14	522+57.72	13.00' RT.	STANDARD 5' COG INLET	658.25	652.08	MD 374.51	0.00
PS-06	I-16	523+70.69	13.00' RT.	MODIFIED 15' COG INLET *	653.80	647.63	SEE DWG. NO. DD-02	0.00
PS-06	I-17	524+44.68	20.27' RT.	STANDARD 20' COG INLET	649.51	643.33	MD 374.51	0.00
PS-06	I-18	527+07.54	28.50' RT.	STANDARD 20' COG INLET	633.64	628.26±	MD 374.51	0.00
PS-04	ES-01	518+69.97	26.50' LT.	30" STANDARD CONCRETE END SECTION ROUND	N/A	646.16	MD 368.01	N/A
PS-04	ES-07	518+25.62	40.56' RT.	24" STANDARD CONCRETE END SECTION ROUND	N/A	650.83	MD 368.01	N/A
PS-05	ES-13	520+43.81	34.79' RT.	18" STANDARD CONCRETE END SECTION ROUND	N/A	653.64	MD 368.01	N/A
PS-05	ES-14	520+00.31	34.77' RT.	18" STANDARD CONCRETE END SECTION ROUND	N/A	652.86	MD 368.01	N/A
SR-01	EW-03	198+76.16	65.24' LT.	STANDARD TYPE C ENDWALL FOR 36 INCH PIPE	N/A	626.23	MD 354.01	N/A
SR-01	EW-04	197+60.05	49.75' LT.	STANDARD TYPE C ENDWALL FOR 48 INCH PIPE	N/A	624.40	MD 354.01	N/A
PS-04	EW-08	518+68.96	36.74' RT.	STANDARD TYPE H ENDWALL FOR 24 INCH PIPE	N/A	650.36	MD 362.01	N/A
		518+68.96	43.24' RT.					
		518+75.47	36.72' RT.					
PS-01	EX. MH-01	497+01.97	23.75' RT.	EXISTING 48" PRECAST MANHOLE	657.48	647.72±	N/A	N/A
PS-02	MH-02	499+14.47	23.22' RT.	48" SQUARE STANDARD SHALLOW MANHOLE	660.49	651.60	MD 383.00	5.06
SR-01	MH-03	199+06.08	66.97' LT.	72" DIAMETER PRECAST MANHOLE	639.43	626.51	MD 384.05	3.92
SR-01	MH-04	197+63.15	34.67' LT.	72" DIAMETER PRECAST MANHOLE	638.17	624.53	MD 384.05	4.64

* NOTE: THE CONTRACTOR MUST SUBMIT THE ASSOCIATED SHOP DRAWINGS (FOR REVIEW AND APPROVAL) TO MDT SHA OHD HIGHWAY HYDRAULICS DIVISION (HHDsha@mdot.maryland.gov).

PIPE SCHEDULE								
PLAN SHEET	STRUCTURE FROM	STRUCTURE TO	SIZE	UPSTREAM INV.	DOWNSTREAM INV.	TYPE	LENGTH	COMMENT
PS-01 & 02	MH-02	EX. MH-01	18"	651.60	648.76	RCP CLASS IV	209'	RAISE EX. MH-01 TO PROPOSED GRADE
PS-02	I-02	I-03	15"	652.97	652.02	RCP CLASS IV	106'	
PS-02	I-03	MH-02	18"	651.77	651.70	RCP CLASS IV	4'	
PS-02 & 03	I-04	I-05	18"	657.40	655.65	RCP CLASS IV	113'	
PS-03	I-05	EX. I 8-1	18"	655.55	651.99	RCP CLASS IV	94'	TIE-IN TO INLET CONSTRUCTED UNDER PROJECT NO. 508000
PS-04	ES-07	EW-08	24"	650.83	650.61	RCP CLASS IV	44'	
PS-04	EW-08	I-10	24"	650.36	647.50	RCP CLASS IV	14'	
PS-04	I-10	ES-01	30"	647.09	646.16	RCP CLASS IV	47'	
PS-05	ES-13	ES-14	18"	653.64	652.86	RCP CLASS IV	44'	
PS-05 & 06	I-14	I-16	18"	652.08	647.73	RCP CLASS IV	111'	
PS-06	I-16	I-17	18"	647.63	643.43	RCP CLASS IV	70'	
PS-06	I-17	I-18	18"	643.33	628.43	RCP CLASS IV	257'	
SR-01	EX. EW-03-1	MH-03	36"	634.41	634.35	RCP CLASS IV	20'	
SR-01	MH-03	EW-03	36"	626.51	626.23	RCP CLASS IV	27'	
SR-01	MH-04	EW-04	48"	624.53	624.40	RCP CLASS IV	11'	

END SECTIONS AND END WALL OUTFALL PROTECTION SCHEDULE*										
STRUCTURE ID	L (FT)	W (FT)	T (IN)	H (FT)	CLASS	TYPE	QTY (SY)	CUTOFF WALL (LF)	Q _s (CFS)	V _s (FPS)
ES-01	13.0	15.5	19	1.75	CLASS I	ROP III	23	15.5	18.1	9.2
ES-07	10.0	11.5	19	1.58	CLASS I	ROP II	13	11.5	11.6	5.1
EW-08	10.0	12.0	19	1.65	CLASS I	ROP II	14	12.0	11.6	5.1
ES-14	10.0	11.5	19	1.50	CLASS I	ROP II	13	11.5	1.7	4.9

Q_s AND VELOCITIES WILL BE NON-EROSIVE AND LESS THAN 5 FPS AT THE END OF THE RIPRAP.

* CONSTRUCT ROCK OUTLET PROTECTION IN ACCORDANCE WITH MDE D-4 STANDARDS AND SPECIFICATIONS FOR OUTLET PROTECTION - D-4-1 ROCK OUTLET PROTECTION.

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.
ROBERT J. HUDSON MD NO-36223B EXP-08/17/2025



DATUM: NAD 83/91 HORIZONTAL
NAVD 88 VERTICAL



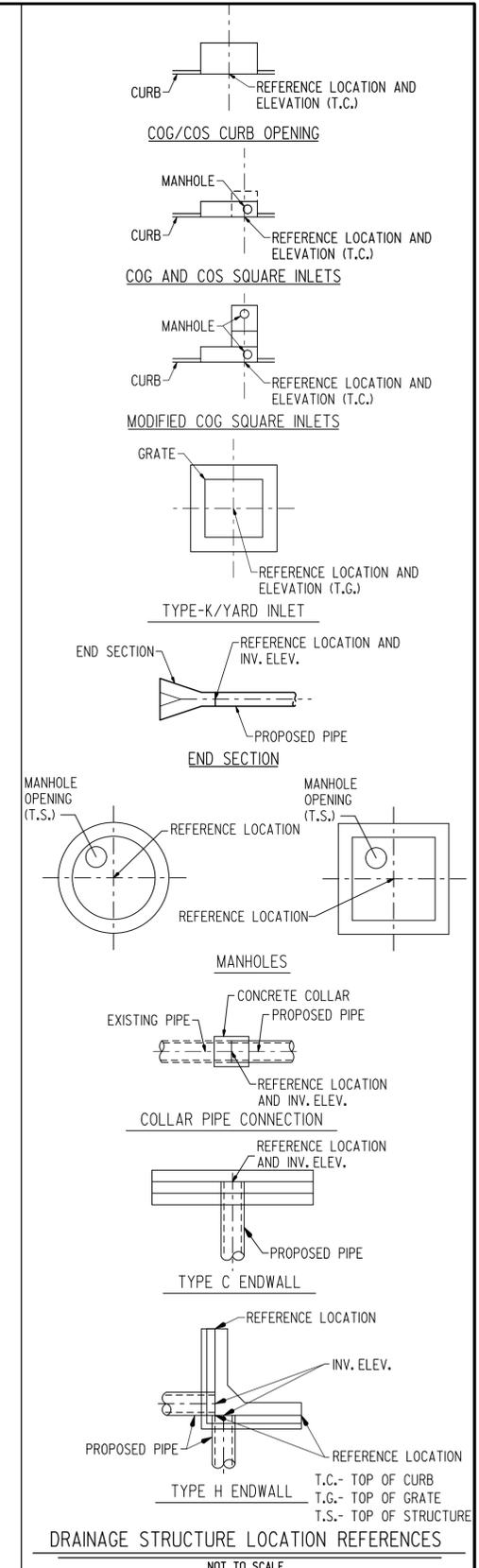
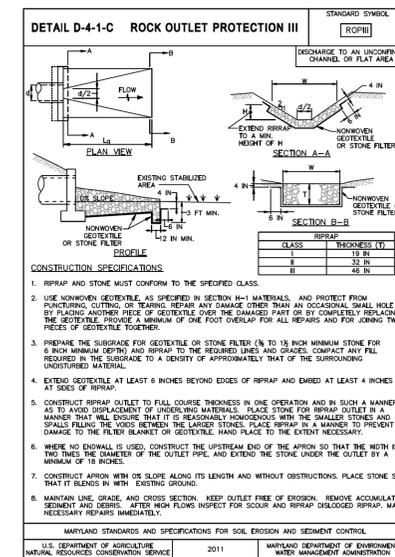
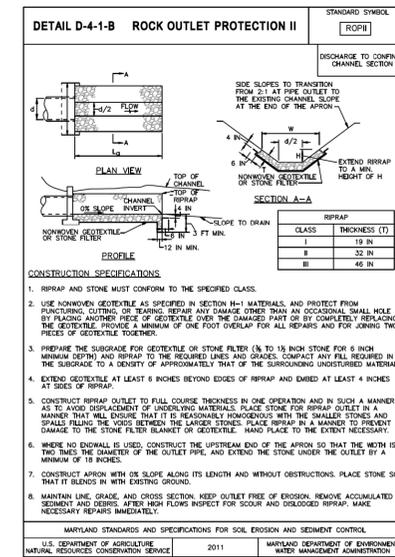
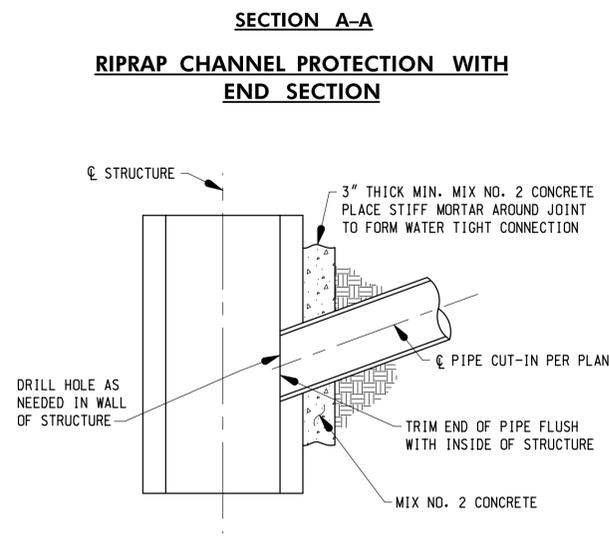
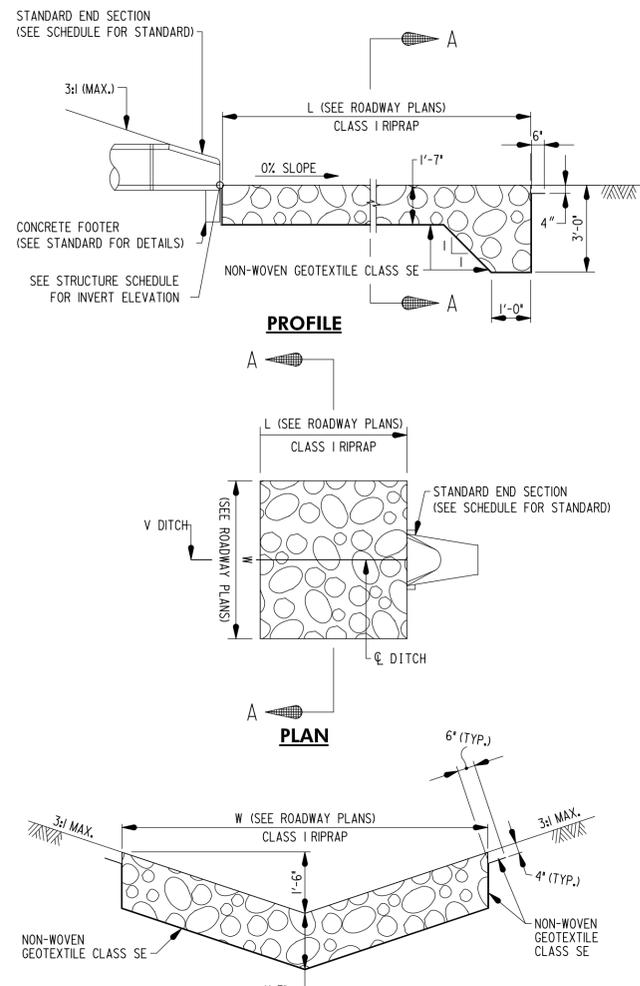
MONTGOMERY COUNTY
DEPARTMENT OF TRANSPORTATION
100 EDISON PARK DRIVE, 4TH FLOOR
GAITHERSBURG, MD 20878

RECOMMENDED FOR APPROVAL
FOR SIGNATURES SEE TITLE SHEET
Chief, Design Section
APPROVED

FOR SIGNATURES SEE TITLE SHEET
Chief, Division of Engineering Services

Designed by: N.D.K. Drawn by: S.A.T. Checked by: S.H.D.

SCALE: N.T.S. 02/2025
Project No.: C.I.P. PR. # 501744 SHEET 24 of 97



WALLACE MONTGOMERY
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410.494.9093 Tel / 410.667.0925 Fax
www.wallacemontgomery.com A Limited Liability Partnership

CONVEYANCE DITCH STAKEOUT				
PLAN SHEET	STATION	OFFSET	WIDTH	ELEVATION
PS-04	515+45.58	42.73' RT.	2'	661.00
PS-04	515+50.00	43.00' RT.	2'	660.33
PS-04	515+75.00	43.81' RT.	2'	658.02
PS-04	516+00.00	44.11' RT.	2'	656.86
PS-04	516+25.00	44.70' RT.	2'	655.84
PS-04	516+50.00	45.22' RT.	2'	654.54
PS-04	516+75.00	45.94' RT.	2'	653.66
PS-04	517+00.00	45.82' RT.	2'	652.37
PS-04	517+25.00	45.58' RT.	2'	651.77
PS-04	517+50.00	44.96' RT.	2'	651.28
PS-04	517+75.00	44.23' RT.	2'	650.97
PS-04	518+00.00	43.48' RT.	2'	650.90
PS-04	518+19.57	41.51' RT.	2'	650.87

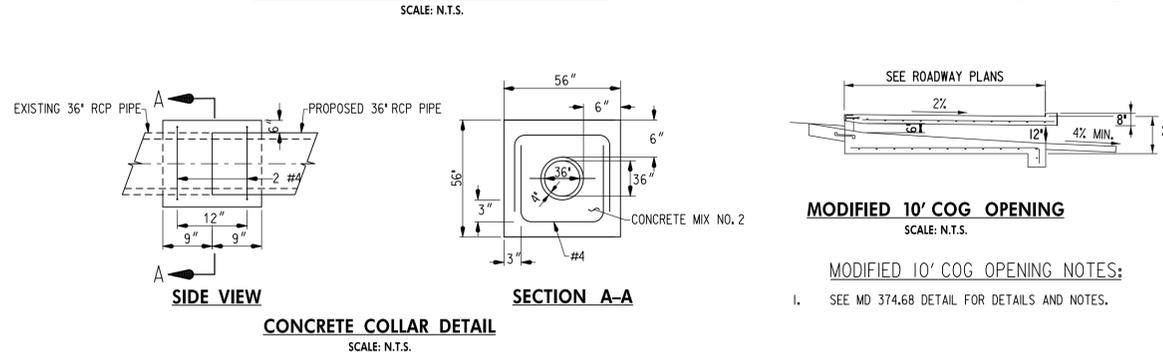
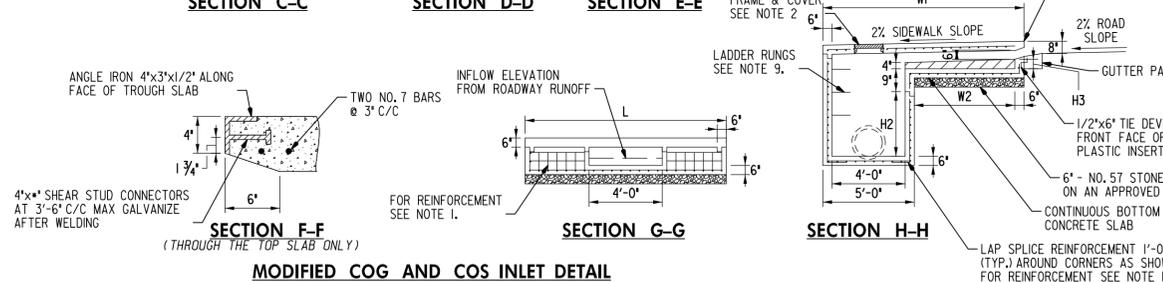
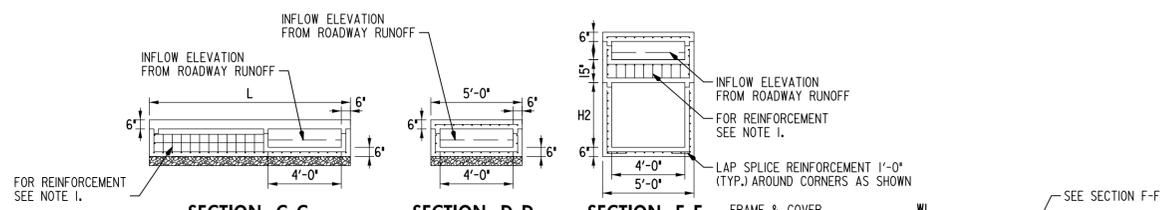
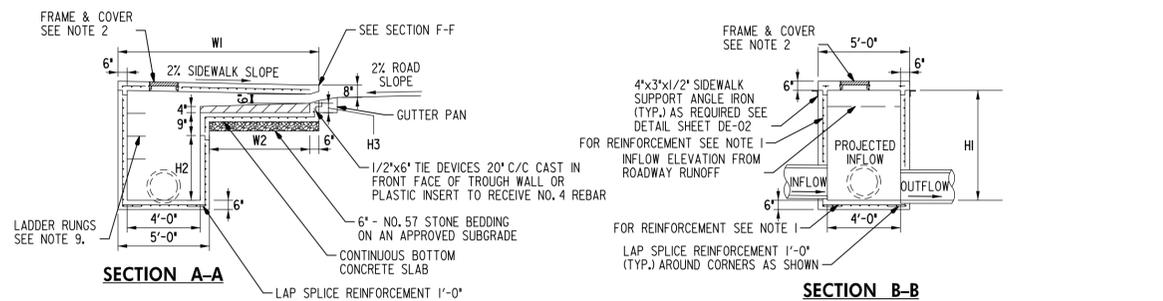
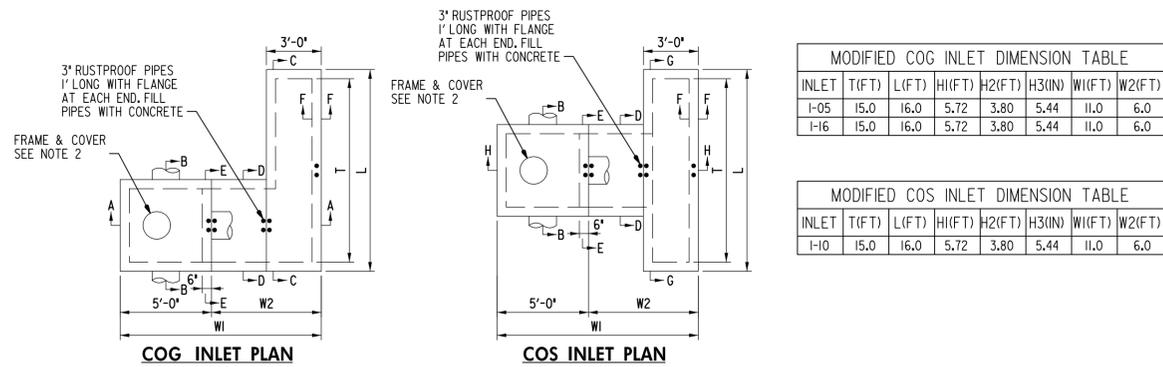
CONVEYANCE DITCH STAKEOUT				
PLAN SHEET	STATION	OFFSET	WIDTH	ELEVATION
PS-04	518+75.00	38.49' RT.	2'	650.36
PS-04 & 05	519+00.00	37.98' RT.	2'	651.00
PS-05	519+25.00	35.38' RT.	2'	651.72
PS-05	519+50.00	36.34' RT.	2'	652.22
PS-05	519+75.00	35.97' RT.	2'	652.60
PS-05	519+94.15	34.77' RT.	2'	652.92

CONVEYANCE DITCH STAKEOUT				
PLAN SHEET	STATION	OFFSET	WIDTH	ELEVATION
PS-05	520+50.00	34.75' RT.	2'	653.89
PS-05	520+75.00	34.40' RT.	2'	654.36
PS-05	521+00.00	33.27' RT.	2'	654.95
PS-05	521+25.00	34.75' RT.	2'	655.50
PS-05	521+38.50	34.75' RT.	2'	655.80

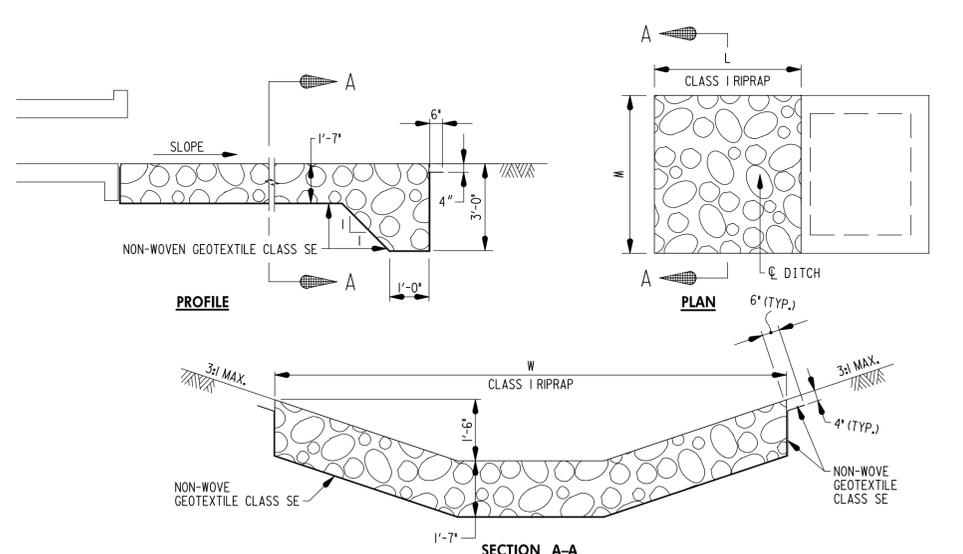
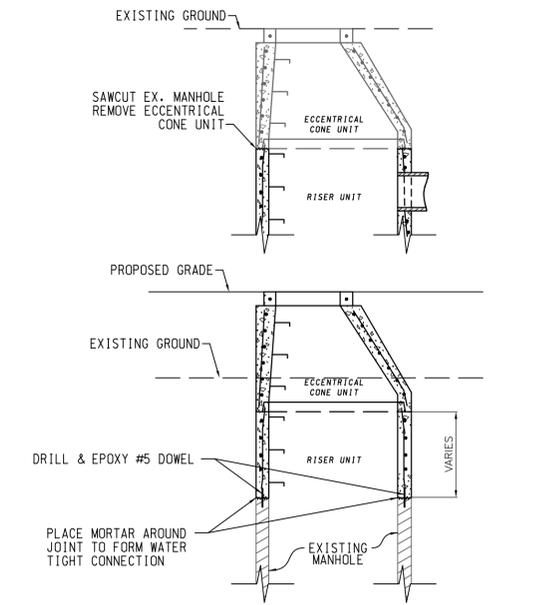
GRASS SWALE 3-1 SHA BMP# XXXX STAKEOUT				
PLAN SHEET	STATION	OFFSET	WIDTH	ELEVATION
PS-05	521+38.50	34.75' RT.	2'	655.80
PS-05	521+50.00	34.75' RT.	2'	656.05
PS-05	521+75.00	34.75' RT.	2'	656.48
PS-05	522+00.00	34.75' RT.	2'	656.84
PS-05	522+25.00	34.75' RT.	2'	656.89
PS-05	522+50.00	34.75' RT.	2'	656.94

CONVEYANCE DITCH STAKEOUT				
PLAN SHEET	STATION	OFFSET	WIDTH	ELEVATION
PS-06	524+46.51	42.46' RT.	2'	647.85
PS-06	524+50.00	43.19' RT.	2'	647.79
PS-06	524+75.00	51.70' RT.	2'	646.14
PS-06	525+00.00	55.42' RT.	2'	644.25
PS-06	525+25.00	55.42' RT.	2'	642.80
PS-06	525+50.00	55.42' RT.	2'	641.34
PS-06	525+75.00	55.42' RT.	2'	639.75
PS-06	526+00.00	55.42' RT.	2'	638.23
PS-06	526+25.00	55.42' RT.	2'	636.66
PS-06	526+50.00	55.42' RT.	2'	635.16
PS-06	526+75.00	55.42' RT.	2'	633.66
PS-06	527+00.00	55.42' RT.	2'	632.37
PS-06	527+25.00	55.42' RT.	2'	631.33
PS-06	527+50.00	55.42' RT.	2'	630.50
PS-06	527+75.00	55.42' RT.	2'	629.73
PS-06 & 07	528+00.00	54.37' RT.	2'	629.04
PS-07	528+25.00	49.57' RT.	2'	628.52
PS-07	528+38.61	47.69' RT.	2'	628.34

DITCH STABILIZATION CHART						
PLAN SHEET	FROM	TO	AVERAGE VELOCITY	DEPTH OF FLOW	MATTING DEPTH	MATTING TYPE
PS-04	515+50 RT.	518+25 RT.	4.78 FPS	0.56'	1.00'	TYPE 'A' MATTING
PS-04 & 05	518+50 RT.	520+00 RT.	2.03 FPS	0.46'	1.00'	TYPE 'A' MATTING
PS-05	520+50 RT.	522+50 RT.	2.01 FPS	0.26'	1.00'	TYPE 'A' MATTING
PS-05 & 06	524+50 RT.	528+50 RT.	4.68 FPS	0.42'	1.00'	TYPE 'A' MATTING



- NOTES**
- INLET MAY BE PRECAST OR CAST IN PLACE. REINFORCEMENT SHALL BE EPOXY COATED NO. 4 BARS PLACED IN THE CENTER OF TOOLS, AND INCIDENTALS REQUIRED TO SATISFACTORILY CONSTRUCT THE INLET AND COMPLETE THE WORK. INLET WALLS AT 6" C/C TWO WAYS. REINFORCEMENT STEEL SHALL MEET THE REQUIREMENTS OF ASTM A615, GRADE 60.
 - FOR MANHOLE FRAME AND COVER SEE MD 383.61.
 - CONCRETE SHALL BE MIX NO. 3.
 - CURB OPENINGS SHALL NOT ENCRoACH ON CROSSWALK AREAS.
 - A CONCRETE OR BRICK CHANNEL WHICH SLOPES AT LEAST 2 IN/FT TOWARD THE OUTLET SHALL BE PROVIDED IN THE FIELD.
 - GRADE AND SLOPE ADJUSTMENTS SHALL BE COMPLETED IN THE FIELD USING PRECAST ADJUSTMENT COLLAR AND MORTAR.
 - SLOPED TROUGH FLOOR TO BE CAST IN THE FIELD AND USED ONLY WHEN ROAD GRADE IS 1.5% OR LESS. WHEN SLOPED TROUGH FLOOR IS USED, ROUGHEN PRECAST TROUGH FLOOR.
 - PRECAST INLET JOINTS - THE MANUFACTURER SHALL FORM MALE AND FEMALE ENDS OF JOINTS USING THEIR OWN DESIGN. THE JOINTS SHALL BE SEALED BY THE CONTRACTOR AND MADE WATERTIGHT USING THE MANUFACTURER'S RECOMMENDED ASTM OR AASHTO APPROVED SEALANT.
 - LADDER RUNGS SHALL BE PLACED IN VERTICAL ALIGNMENT AT 1'-3" C/C. RUNGS ARE INCIDENTAL TO THE COST OF THE INLET.
 - ANGLE IRON AND SHEAR STUD CONNECTORS SHALL BE GALVANIZED AFTER WELDING IN ACCORDANCE WITH ASTM A 123. SEE STDS. MD 374.55 & MD 374.64.
 - SEE STANDARD MD 374.65 FOR DEPRESSED GUTTER PAN.
 - CUSTOM COG/COS INLET SHALL BE PAID FOR AT THE CONTRACT UNIT PRICE PER EACH CUSTOM COG/COS INLET. PAYMENT WILL BE FULL COMPENSATION FOR ALL CONCRETE, REINFORCEMENT, LADDER RUNGS, EXCAVATION, LABOR, EQUIPMENT.



FLOW THROUGH COG INLET OUTFALL PROTECTION SCHEDULE*											
STRUCTURE ID	L ₀ (FT)	W (FT)	T (IN)	H (FT)	CLASS	TYPE	SLOPE	QTY (SY)	CUTOFF WALL (LF)	V10 (FPS)	
I-01	18.2	11.0	19	1.50	CLASS I	ROP III	33%	23	11.0	2.75	3.14
I-11	13.0	11.0	19	1.50	CLASS I	ROP II	33%	16	11.0	0.2	1.04
I-12	12.0	11.0	19	1.50	CLASS I	ROP II	33%	18	11.0	0.1	0.91
I-22	23.0	11.0	19	1.50	CLASS I	ROP II	33%	29	11.0	0.2	1.19

* CONSTRUCT ROCK OUTLET PROTECTION IN ACCORDANCE WITH MDE D-4 STANDARDS AND SPECIFICATIONS FOR OUTLET PROTECTION - D-4-1 ROCK OUTLET PROTECTION.

WALLACE MONTGOMERY
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www.wallacemontgomery.com A Limited Liability Partnership

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ROBERT J. HUDSON MD No-26238 EXP-08/17/2025

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

FOR SIGNATURES SEE TITLE SHEET

Chief, Design Section _____ Date _____

APPROVED

FOR SIGNATURES SEE TITLE SHEET

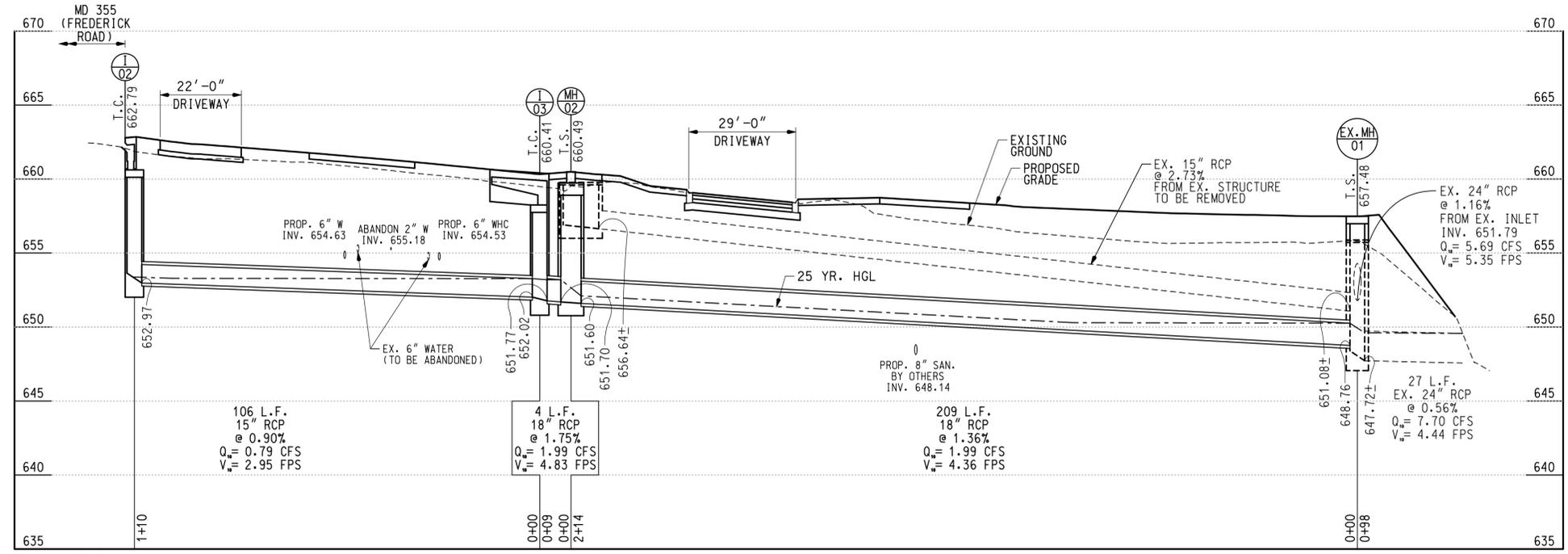
Chief, Division of Engineering Services _____ Date _____

Designed by : N.D.K. Drawn by : S.A.T. Checked by : S.H.D.

PLAN SHEET DD-02
DRAINAGE DETAILS
MD 355 - CLARKSBURG
SHARED USE PATH

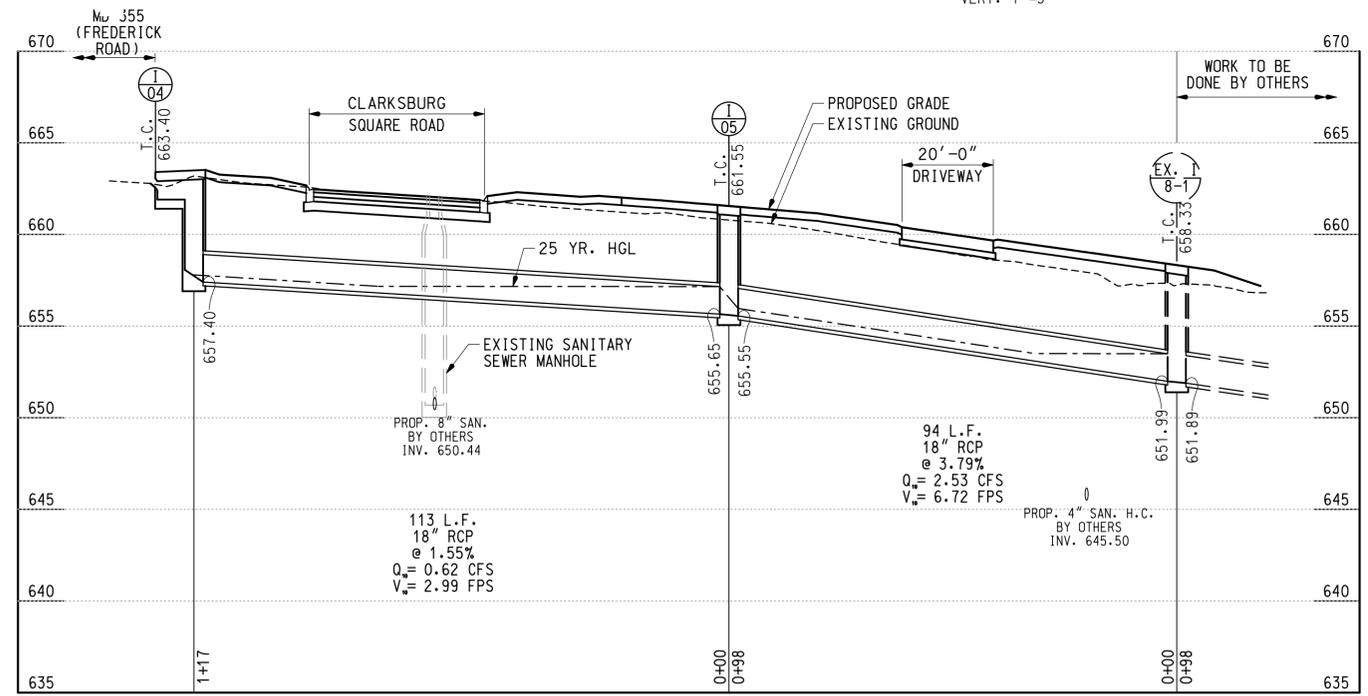
SCALE: N.T.S. 02/2025

Project No. : C.I.P. PR. # 501744 SHEET 25 of 97



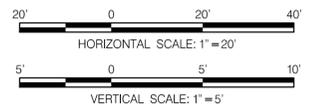
I-02 TO EX. MH-01

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



I-04 TO EX. I8-1 (BY OTHERS)

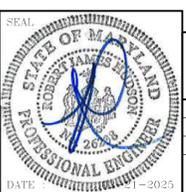
SCALE: HOR. 1"=20'
VERT. 1"=5'



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NOTE:
INFORMATION FOR SEWER LINES (CONTRACT #DA6570C18) AND WATER LINES (CONTRACT #RE8447A18) CROSSING DRAIN PIPES WAS TAKEN FROM WSSC PROPOSED DESIGN PLANS. EXISTING LINES WILL BE REPLACED CONCURRENTLY WITH THIS PROJECT.

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NAVD 88 VERTICAL

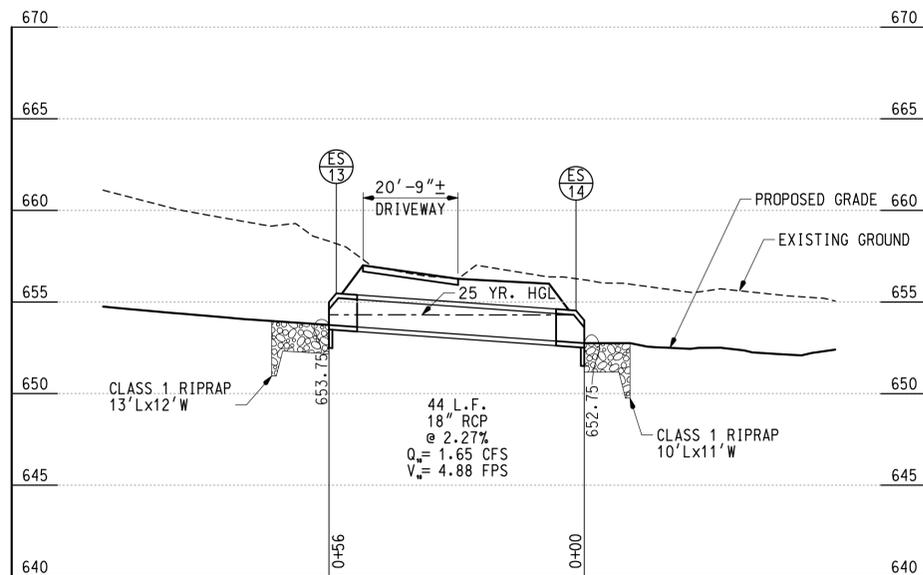
NO.	REVISION	DATE	BY

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

RECOMMENDED FOR APPROVAL
FOR SIGNATURES SEE TITLE SHEET
Chief, Design Section
APPROVED
FOR SIGNATURES SEE TITLE SHEET
Chief, Division of Engineering Services
Designed by : N.D.K. Drawn by : S.A.T. Checked by : S.H.D.

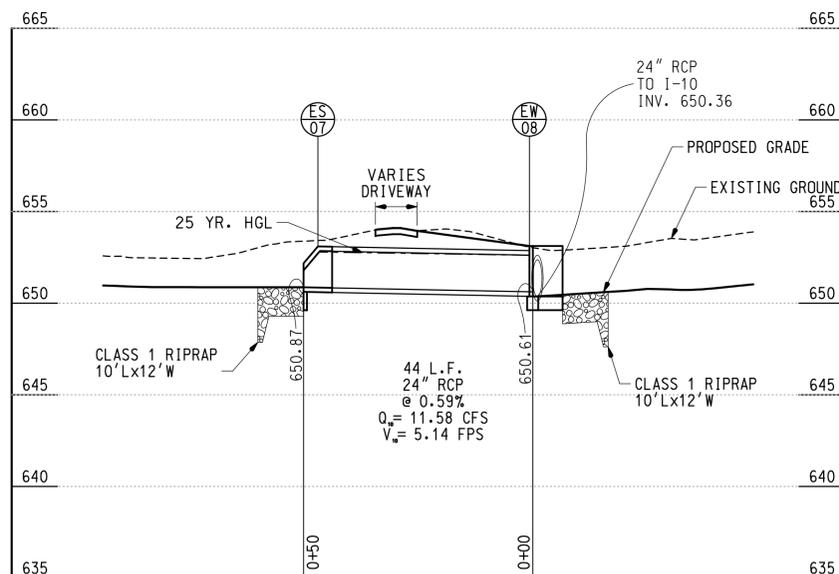
**PLAN SHEET DP-01
DRAINAGE PROFILES
MD 355 - CLARKSBURG
SHARED USE PATH**

SCALE: AS SHOWN
Project No. : C.I.P. PR. # 501744 SHEET 26 of 97



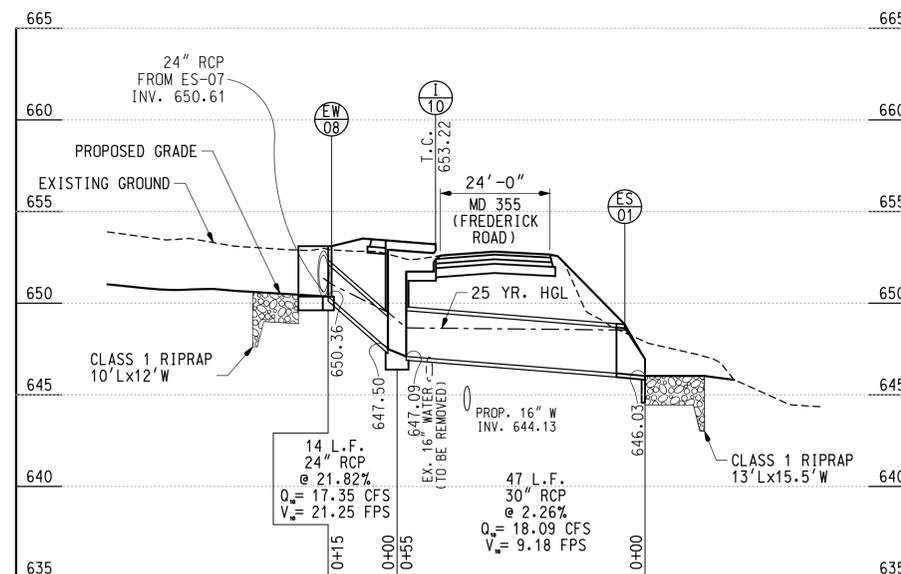
ES-13 TO ES-14

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



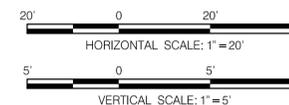
ES-07 TO EW-08

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



EW-08 TO ES-01

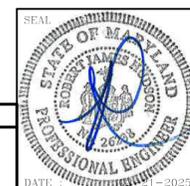
SCALE: HOR. 1"=20'
VERT. 1"=5'



NOTE:
INFORMATION FOR SEWER LINES (CONTRACT #DA6570C18)
AND WATER LINES (CONTRACT #RE8447A18) CROSSING
DRAIN PIPES WAS TAKEN FROM WSSC PROPOSED DESIGN
PLANS. EXISTING LINES WILL BE REPLACED CONCURRENTLY
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NAVD 88 VERTICAL

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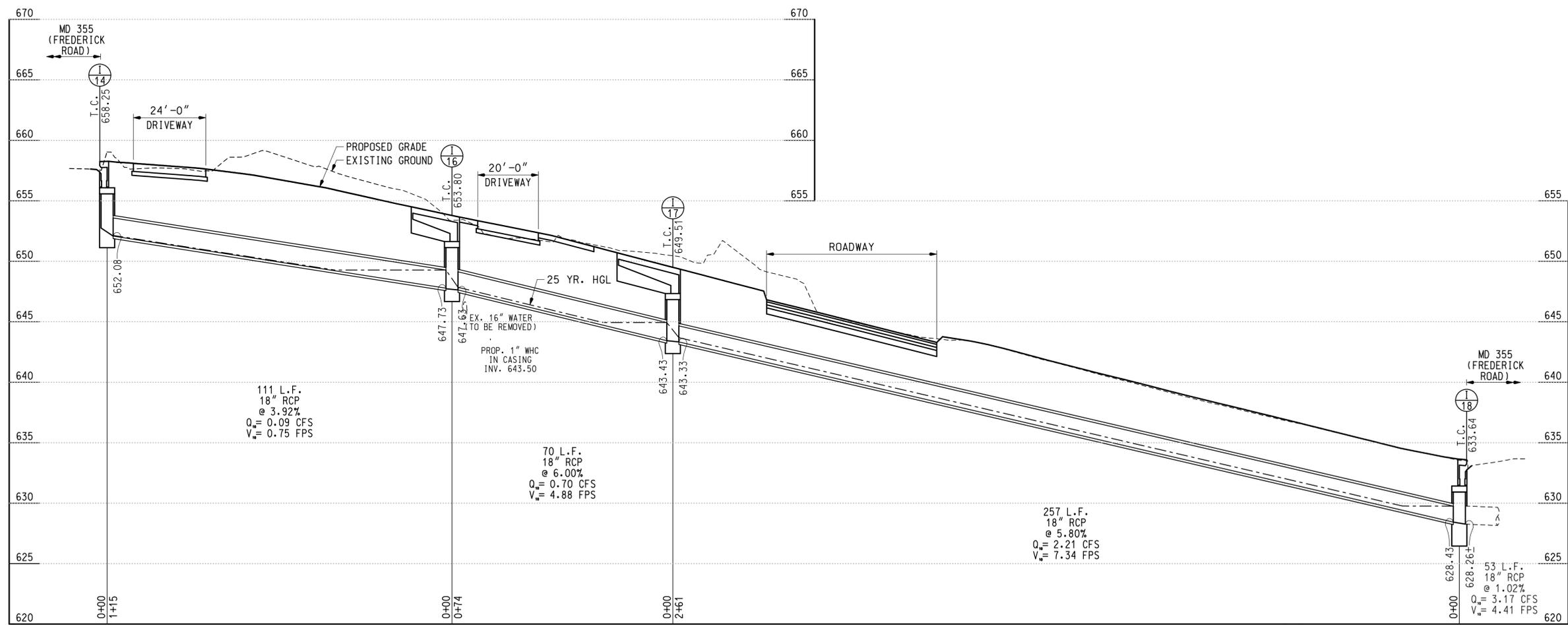
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100 EDISON PARK DRIVE, 4TH FLOOR
GAITHERSBURG, MD 20878

RECOMMENDED FOR APPROVAL			
FOR SIGNATURES SEE TITLE SHEET			
Chief, Design Section	_____	Date	_____
APPROVED			
FOR SIGNATURES SEE TITLE SHEET			
Chief, Division of Engineering Services	_____	Date	_____
Designed by :	N.D.K.	Drawn by :	S.A.T.
Checked by :	S.H.D.		

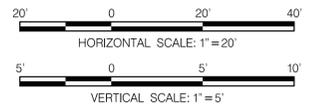
PLAN SHEET DP-02
DRAINAGE PROFILES
MD 355 - CLARKSBURG
SHARED USE PATH

SCALE: AS SHOWN 02/2025
Project No. : C.I.P. PR. # 501744 SHEET 27 of 97

DPS FILE NO. SC0025 OF SC0047



I-14 TO I-19
 SCALE: HOR. 1"=20'
 VERT. 1"=5'



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 ROBERT J. HUDSON MD No-36238 EXP-08/17/2025



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
 FOR SIGNATURES SEE TITLE SHEET
 Chief, Design Section
 Date

APPROVED
 FOR SIGNATURES SEE TITLE SHEET
 Chief, Division of Engineering Services
 Date

Designed by : N.D.K. Drawn by : S.A.T. Checked by : S.H.D.

**PLAN SHEET DP-03
 DRAINAGE PROFILES
 MD 355 - CLARKSBURG
 SHARED USE PATH**

SCALE: AS SHOWN
 Project No. : C.I.P. PR. # 501744 SHEET 28 of 97

EROSION AND SEDIMENT CONTROL – GENERAL NOTES

STANDARD EROSION AND SEDIMENT CONTROL NOTES

- THE PERMITTEE SHALL NOTIFY THE DEPARTMENT OF PERMITTING SERVICES (DPS) FORTY-EIGHT (48) HOURS BEFORE COMMENCING ANY LAND DISTURBING ACTIVITY AND UNLESS WAIVED BY THE DEPARTMENT SHALL BE REQUIRED TO HOLD A PRE-CONSTRUCTION MEETING BETWEEN THEM OR THEIR REPRESENTATIVE, THEIR ENGINEER AND AN AUTHORIZED REPRESENTATIVE OF THE DEPARTMENT.
- THE PERMITTEE MUST OBTAIN INSPECTION AND APPROVAL BY DPS AT THE FOLLOWING POINTS:
 - AT THE REQUIRED PRE-CONSTRUCTION MEETING.
 - FOLLOWING INSTALLATION OF SEDIMENT CONTROL MEASURES.
 - DURING THE INSTALLATION OF A SEDIMENT BASIN OR STORMWATER MANAGEMENT STRUCTURE AT THE REQUIRED INSPECTION POINTS (SEE INSPECTION CHECKLIST ON PLAN). NOTIFICATION PRIOR TO COMMENCING CONSTRUCTION IS MANDATORY.
 - PRIOR TO REMOVAL OR MODIFICATION OF ANY SEDIMENT CONTROL STRUCTURE(S).
 - PRIOR TO FINAL ACCEPTANCE.
- THE PERMITTEE SHALL CONSTRUCT ALL EROSION AND SEDIMENT CONTROL MEASURES PER THE APPROVED PLAN AND CONSTRUCTION SEQUENCE. SHALL HAVE THEM INSPECTED AND APPROVED BY THE DEPARTMENT PRIOR TO BEGINNING ANY OTHER LAND DISTURBANCES. SHALL ENSURE THAT ALL RUNOFF FROM DISTURBED AREAS IS DIRECTED TO THE SEDIMENT CONTROL DEVICES AND SHALL NOT REMOVE ANY EROSION OR SEDIMENT CONTROL MEASURE WITHOUT PRIOR PERMISSION FROM THE DEPARTMENT.
- THE PERMITTEE SHALL PROTECT ALL POINTS OF CONSTRUCTION INGRESS AND EGRESS TO PREVENT THE DEPOSITION OF MATERIALS ONTO TRAVERSED PUBLIC ROADS. ALL MATERIALS DEPOSITED ONTO PUBLIC THOROUGHFARE(S) SHALL BE REMOVED IMMEDIATELY.

AND CONTRACTOR CONTRACTOR
- THE PERMITTEE SHALL INSPECT PERIODICALLY AND MAINTAIN CONTINUOUSLY IN EFFECTIVE OPERATING CONDITION ALL EROSION AND SEDIMENT CONTROL MEASURES UNTIL SUCH TIME AS THEY ARE REMOVED WITH PRIOR PERMISSION FROM THE DEPARTMENT. THE PERMITTEE IS RESPONSIBLE FOR IMMEDIATELY REPAIRING OR REPLACING ANY SEDIMENT CONTROL MEASURES WHICH HAVE BEEN DAMAGED OR REMOVED BY THE PERMITTEE OR ANY OTHER PERSON.
- FOLLOWING INITIAL SOIL DISTURBANCE OR RE-DISTURBANCE, PERMANENT OR TEMPORARY STABILIZATION MUST BE COMPLETED WITHIN:
 - THREE (3) CALENDAR DAYS AS TO THE SURFACE OF ALL PERIMETER DIKES, SWALES, DITCHES, PERIMETER SLOPE AND ALL SLOPES STEEPER THAN 3 HORIZONTAL TO 1 VERTICAL (3:1); AND
 - SEVEN (7) CALENDAR DAYS AS TO ALL OTHER DISTURBED OR GRADED AREAS ON THE PROJECT SITE NOT UNDER ACTIVE GRADING.

ALL AREAS DISTURBED OUTSIDE OF THE PERIMETER SEDIMENT CONTROL SYSTEM MUST BE MINIMIZED AND STABILIZED IMMEDIATELY. MAINTENANCE MUST BE PERFORMED AS NECESSARY TO ENSURE CONTINUED STABILIZATION.
- THE PERMITTEE SHALL APPLY SOD, SEED, AND ANCHORED STRAW MULCH, OR OTHER APPROVED STABILIZATION MEASURES TO ALL DISTURBED AREAS WITHIN SEVEN (7) CALENDAR DAYS AFTER STRIPPING AND GRADING ACTIVITIES HAVE CEASED ON THAT AREA. MAINTENANCE SHALL BE PERFORMED AS NECESSARY TO ENSURE CONTINUED STABILIZATION. ACTIVE CONSTRUCTION AREAS SUCH AS BORROW OR STOCKPILE AREAS, ROADWAY IMPROVEMENTS, AND AREAS WITHIN FIFTY (50) FEET OF A BUILDING UNDER CONSTRUCTION MAY BE EXEMPT FROM THIS REQUIREMENT, PROVIDED THAT EROSION AND SEDIMENT CONTROL MEASURES ARE INSTALLED AND MAINTAINED TO PROTECT THOSE AREAS.
- PRIOR TO REMOVAL OF SEDIMENT CONTROL MEASURES, THE PERMITTEE SHALL STABILIZE ALL CONTRIBUTORY DISTURBED AREAS WITH REQUIRED SOIL AMENDMENTS AND TOPSOIL, USING SOD OR AN APPROVED PERMANENT SEED MIXTURE AND AN APPROVED ANCHORED MULCH. WOOD FIBER MULCH MAY ONLY BE USED IN SEEDING SEASON WHEN THE SLOPE DOES NOT EXCEED 10% AND GRADING HAS BEEN DONE TO PROMOTE SHEET FLOW DRAINAGE. AREAS BROUGHT TO FINISHED GRADE DURING THE SEASON SHALL BE PERMANENTLY STABILIZED WITHIN SEVEN (7) CALENDAR DAYS OF ESTABLISHMENT. WHEN PROPERTY IS BROUGHT TO FINISHED GRADE DURING THE MONTHS OF NOVEMBER THROUGH FEBRUARY, AND PERMANENT STABILIZATION IS FOUND TO BE IMPRACTICAL, AN APPROVED TEMPORARY SEED AND STRAW ANCHORED MULCH SHALL BE APPLIED TO DISTURBED AREAS. THE FINAL PERMANENT STABILIZATION OF SUCH PROPERTY SHALL BE COMPLETED PRIOR TO THE FOLLOWING APRIL 15.
- THE SITE PERMIT, WORK, MATERIALS, APPROVED SC/SM PLANS, AND TEST REPORTS SHALL BE AVAILABLE AT THE SITE FOR INSPECTION BY DULY AUTHORIZED OFFICIALS OF MONTGOMERY COUNTY.
- SURFACE DRAINAGE FLOWS OVER UNSTABILIZED CUT AND FILL SLOPES SHALL BE CONTROLLED BY EITHER PREVENTING DRAINAGE FLOWS FROM TRAVERSING THE SLOPES OR BY INSTALLING MECHANICAL DEVICES TO LOWER THE WATER DOWN SLOPE WITHOUT CAUSING EROSION. DIKES SHALL BE INSTALLED AND MAINTAINED AT THE TOP OF CUT OR FILL SLOPES UNTIL THE SLOPE AND DRAINAGE AREA TO IT ARE FULLY STABILIZED. AT WHICH TIME THEY MUST BE REMOVED AND FINAL GRADING DONE TO PROMOTE SHEET FLOW DRAINAGE. MECHANICAL DEVICES MUST BE PROVIDED AT POINTS OF CONCENTRATED FLOW WHERE EROSION IS LIKELY TO OCCUR.
- PERMANENT SWALES OR OTHER POINTS OF CONCENTRATED WATER FLOW SHALL BE STABILIZED WITHIN 3 CALENDAR DAYS OF ESTABLISHMENT WITH SOD OR SEED WITH AN APPROVED EROSION CONTROL MATTING OR BY OTHER APPROVED STABILIZATION MEASURES.
- SEDIMENT CONTROL DEVICES SHALL BE REMOVED, WITH PERMISSION OF THE DEPARTMENT, WITHIN THIRTY (30) CALENDAR DAYS FOLLOWING ESTABLISHMENT OF PERMANENT STABILIZATION IN ALL CONTRIBUTORY DRAINAGE AREAS. STORMWATER MANAGEMENT STRUCTURES USED TEMPORARILY FOR SEDIMENT CONTROL SHALL BE CONVERTED TO THE PERMANENT CONFIGURATION WITHIN THIS TIME PERIOD AS WELL.
- NO PERMANENT CUT OR FILL SLOPE WITH A GRADIENT STEEPER THAN 3:1 WILL BE PERMITTED IN LAWN MAINTENANCE AREAS OR ON RESIDENTIAL LOTS. A SLOPE GRADIENT OF UP TO 2:1 WILL BE PERMITTED IN NON-MAINTENANCE AREAS PROVIDED THAT THOSE AREAS ARE INDICATED ON THE EROSION AND SEDIMENT CONTROL PLAN WITH A LOW-MAINTENANCE GROUND COVER SPECIFIED FOR PERMANENT STABILIZATION. SLOPE GRADIENT STEEPER THAN 2:1 WILL NOT BE PERMITTED WITH VEGETATIVE STABILIZATION.
- THE PERMITTEE SHALL INSTALL A SPLASHBLOCK AT THE BOTTOM OF EACH DOWNSPOUT UNLESS THE DOWNSPOUT IS CONNECTED BY A DRAIN LINE TO AN ACCEPTABLE OUTLET.

CONTRACTOR
- FOR FINISHED GRADING, THE PERMITTEE SHALL PROVIDE ADEQUATE GRADIENTS SO AS TO PREVENT WATER FROM STANDING ON THE SURFACE OF LAWNS MORE THAN TWENTY-FOUR (24) HOURS AFTER THE END OF A RAINFALL, EXCEPT IN DESIGNATED DRAINAGE COURSES AND SWALE FLOW AREAS, WHICH MAY DRAIN AS LONG AS FORTY-EIGHT (48) HOURS AFTER THE END OF A RAINFALL.
- SEDIMENT TRAPS OR BASINS ARE NOT PERMITTED WITHIN 20 FEET OF A BUILDING WHICH IS EXISTING OR UNDER CONSTRUCTION. NO BUILDING MAY BE CONSTRUCTED WITHIN 20 FEET OF A SEDIMENT TRAP OR BASIN.

- ALL INLETS IN NON-SUMP AREAS SHALL HAVE ASPHALT BERMS INSTALLED AT THE TIME OF BASE PAVING ESTABLISHMENT.
- THE SEDIMENT CONTROL INSPECTOR HAS THE OPTION OF REQUIRING ADDITIONAL SEDIMENT CONTROL MEASURES, AS DEEMED NECESSARY.
- ALL TRAP ELEVATIONS ARE RELATIVE TO THE OUTLET ELEVATION, WHICH MUST BE ON EXISTING UNDISTURBED GROUND.
- VEGETATIVE STABILIZATION SHALL BE PERFORMED IN ACCORDANCE WITH THE STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL.
- SEDIMENT TRAP(S)/BASIN(S) SHALL BE CLEANED OUT AND RESTORED TO THE ORIGINAL DIMENSIONS WHEN SEDIMENT HAS ACCUMULATED TO THE POINT OF ONE-HALF (1/2) THE WET STORAGE DEPTH OF THE TRAP/BASIN (1/4 THE WET STORAGE DEPTH FOR ST-111) OR WHEN REQUIRED BY THE SEDIMENT CONTROL INSPECTOR.
- SEDIMENT REMOVED FROM TRAPS/BASINS SHALL BE PLACED AND STABILIZED IN APPROVED AREAS, BUT NOT WITHIN A FLOODPLAIN.
- ALL SEDIMENT BASINS AND TRAPS MUST BE SURROUNDED WITH A WELDED WIRE SAFETY FENCE. THE FENCE MUST BE AT LEAST 42 INCHES HIGH, HAVE POSTS SPACED NO FARTHER APART THAN 8 FEET, HAVE MESH OPENINGS NO GREATER THAN TWO INCHES IN WIDTH AND FOUR INCHES IN HEIGHT, WITH A MINIMUM OF 14 GAUGE WIRE. SAFETY FENCE MUST BE MAINTAINED IN GOOD CONDITION AT ALL TIMES.
- NO EXCAVATION IN THE AREAS OF EXISTING UTILITIES IS PERMITTED UNLESS THEIR LOCATION HAS BEEN DETERMINED. CALL "MISS UTILITY" AT 1-800-257-7777, 48 HOURS PRIOR TO THE START OF WORK.
- OFF-SITE SPOIL OR BORROW AREAS MUST HAVE PRIOR APPROVAL BY DPS.
- SEDIMENT TRAP/BASIN DEWATERING FOR CLEANOUT OR REPAIR MAY ONLY BE DONE WITH THE DPS INSPECTOR'S PERMISSION. THE INSPECTOR MUST APPROVE THE DEWATERING METHOD FOR EACH APPLICATION. THE FOLLOWING METHODS MAY BE CONSIDERED:
 - PUMP DISCHARGE MAY BE DIRECTED TO ANOTHER ON-SITE SEDIMENT TRAP OR BASIN, PROVIDED IT IS OF SUFFICIENT VOLUME AND THE PUMP INTAKE IS FLOATED TO PREVENT AGITATION OR SUCTION OF DEPOSITED SEDIMENTS; OR
 - THE PUMP INTAKE MAY UTILIZE A REMOVABLE PUMPING STATION AND MUST DISCHARGE INTO AN UNDISTURBED AREA THROUGH A NON-EROSIVE OUTLET; OR
 - THE PUMP INTAKE MAY BE FLOATED AND DISCHARGE INTO A DIRT BAG (12 OZ. NON-WOVEN FABRIC), OR APPROVED EQUIVALENT, LOCATED IN AN UNDISTURBED BUFFER AREA.

REMEMBER: DEWATERING OPERATION AND METHOD MUST HAVE PRIOR APPROVAL BY THE DPS INSPECTOR.
- THE PERMITTEE MUST NOTIFY THE DEPARTMENT OF ALL UTILITY CONSTRUCTION ACTIVITIES WITHIN THE PERMITTED LIMITS OF DISTURBANCE PRIOR TO THE COMMENCEMENT OF THOSE ACTIVITIES.
- TOPSOIL MUST BE APPLIED TO ALL PERVIOUS AREAS WITHIN THE LIMITS OF DISTURBANCE PRIOR TO PERMANENT STABILIZATION IN ACCORDANCE WITH MDE STANDARDS AND SPECIFICATIONS FOR SOIL PREPARATION, TOPSOILING, AND SOIL AMENDMENTS.
- THE ENGINEER MUST RETAIN ALL MATERIAL TICKETS AND GEOTECH REPORTS TO BE PROVIDED ALONG WITH AS-BUILT PLANS TO DPS FOR REVIEW AND APPROVAL.

SEQUENCE OF CONSTRUCTION

- PRIOR TO CLEARING TREES, INSTALLING SEDIMENT CONTROL MEASURES, OR GRADING, A PRE-CONSTRUCTION MEETING MUST BE CONDUCTED ON-SITE WITH THE MONTGOMERY COUNTY DEPARTMENT OF PERMITTING SERVICES (MCDPS) SEDIMENT CONTROL INSPECTOR (240) 777-3311 (48 HOURS NOTICE), THE MNCPPC PLANNING DEPARTMENT, PLANS ENFORCEMENT INSPECTOR (301) 495-4550 (48 HOURS NOTICE), THE OWNERS REPRESENTATIVE, AND THE SITE ENGINEER. IN ORDER FOR THE MEETING TO OCCUR, THE APPLICANT MUST PROVIDE ONE PAPER SET OF APPROVED SEDIMENT CONTROL PLANS TO MCDPS SEDIMENT CONTROL INSPECTOR AT THE PRE-CONSTRUCTION MEETING. IF NO PLANS ARE PROVIDED, THE MEETING SHALL NOT OCCUR AND WILL NEED TO BE RESCHEDULED PRIOR TO COMMENCING ANY WORK.
 - THE LIMITS OF DISTURBANCE MUST BE FIELD MARKED PRIOR TO CLEARING OF TREES, INSTALLATION OF SEDIMENT CONTROL MEASURES, CONSTRUCTION, OR OTHER LAND DISTURBING ACTIVITIES.
 - THE PERMITTEE MUST OBTAIN WRITTEN APPROVAL FROM THE MNCPPC INSPECTOR, CERTIFYING THAT THE LIMITS OF DISTURBANCE AND TREE PROTECTION MEASURES ARE CORRECTLY MARKED AND INSTALLED PRIOR TO COMMENCING ANY CLEARING.
 - INSTALL TEMPORARY TRAFFIC CONTROL DEVICES AS PER MSHA STANDARDS.
 - ALL DISTURBED AREAS SHOWN AS SAME DAY STABILIZATION SHALL BE STABILIZED AT THE END OF EACH WORK DAY.
- PHASE 1**
- ESTABLISH THE LOD. ~~ONE WEEK.~~
 - INSTALL SILT FENCE AND SUPER SILT FENCE AS SHOWN ON PLANS. INSTALL INLET PROTECTION COIP 2.1. ~~ONE WEEK.~~
 - INSTALL EACH STORMDRAIN SYSTEM UNDER A 3-DAY NOAA DRY WEATHER FORECAST (1-02 TO 1-05, 1-10, 1-14, 1-16 TO 1-18, MH-02, ES-01, ES-07, ES-13, ES-14, AND EW-08) FROM DOWNSTREAM TO UPSTREAM AS SHOWN ON PLANS. BLOCK PIPE BETWEEN ES-13 AND ES-14. USE SAME DAY STABILIZATION (SDS) TO TREAT THE AREAS. AREAS OF SDS MUST BE STABILIZED AT THE END OF EACH WORK DAY. PLACE INLET PROTECTION (CIP 2.1 TO CIP 2.3, CIP 3.1, CIP 3.2, CIP 4.1, CIP 5.2, CIP 6.1 TO CIP 6.3, AND CIP 7.1) DEVICES AS SHOWN ON PLANS ONCE STORM DRAIN SYSTEM IS ONLINE. UPON COMPLETION AND STABILIZATION OF STORMDRAIN WORK, AND WITH APPROVAL OF THE DPS INSPECTOR, REMOVE SF 1.6. ~~ONE MONTH.~~
 - INSTALL THE FOLLOWING CONTROLS: EARTH DIKE (ED 4.1 TO ED 4.7, ED 5.1 TO ED 5.3, ED 6.1, AND ED 6.2), TEMPORARY ASPHALT BERMS (TAB 4.1, TAB 5.1, TAB 5.2, TAB 6.1), TEMPORARY STONE OUTLET STRUCTURE (TSOS 4.1, TSOS 4.2, TSOS 5.1, AND TSOS 7.1), PUMP AROUND DEVICE, FILTER BAG (FB 2.1) AND PIPE SLOPE DRAIN (PSD 4.1) AS SHOWN ON THE PLANS. ~~TWO WEEKS.~~
 - PROVIDE INITIAL GRADING AS SHOWN ON THE PLANS. ~~ONE MONTH.~~
 - INSTALL STABILIZED CONSTRUCTION ENTRANCE (SCE 1.1), SILT FENCE (SF 11.1), SANDBAGS (SB 1.1 TO SB 1.3), PUMP AROUND DEVICE, PORTABLE SEDIMENT TANK (PST 1.1), AND FILTER BAG (FB 1.1) AS SHOWN ON SHEET NO. SC-11. ~~TWO WEEKS.~~
- PHASE 2**
- ESTABLISH THE LOD AS SHOWN ON SC-12. ~~ONE WEEK.~~
 - INSTALL 1-01, 1-22, 1-11, AND 1-12 AS SHOWN ON PLANS. PLACE INLET PROTECTION (CIP 1.1 AND CIP 5.1). BLOCK 1-11, 1-12 AND 1-22. ~~FOUR WEEKS.~~
 - PERFORM STREAM RESTORATION CONSTRUCTION AS SHOWN ON PLANS. INSTALLATION OF MH-03, MH-04, EW-03, AND EW-04 SHALL OCCUR UNDER A 3-DAY NOAA DRY WEATHER FORECAST. STREAM WORK IS PROHIBITED DURING THE PERIOD OF MARCH 1ST THROUGH JUNE 15TH, INCLUSIVE, DURING ANY YEAR. ~~THREE MONTHS.~~
 - CONSTRUCT SHARED USE PATH, RETAINING WALLS 1 AND 2, AND PEDESTRIAN LIGHTING AS SHOWN ON PLANS. REMOVE PUMP AROUND DEVICE (SC-15 AND SC-16), ED 4.5 (SC-15), ED 5.3 (SC-16), AND ED 6.2 (SC-17), PRIOR TO INSTALLING PATHWAY, AND FINALIZE GRADING AS EACH UPSTREAM SECTION OF PATHWAY IS CONSTRUCTED. PROTECT PERMEABLE PAVEMENT FROM SEDIMENTATION/CONTAMINATION UNTIL ESTABLISHING PERMANENT STABILIZATION. ~~TWO MONTHS.~~
 - WITH WRITTEN APPROVAL FROM THE DPS INSPECTOR, REMOVE THE REST OF EROSION AND SEDIMENT CONTROLS AND STABILIZE AREAS DISTURBED BY THEIR REMOVAL, AND UNBLOCK 1-11, 1-12, AND 1-22 AND PIPE BETWEEN ES-13 AND ES-14.
 - PROVIDE AS-BUILT PLANS WITH ALL OF THE AS-BUILT INFORMATION TO MCDPS FOR REVIEW AND APPROVAL.

STANDARD SYMBOLS

AT-GRADE INLET PROTECTION		ROCK OUTLET PROTECTION I	
BAFFLE BOARDS		ROCK OUTLET PROTECTION II	
BENCHING		ROCK OUTLET PROTECTION III	
CATCH BASIN INSERT		SILT FENCE	
CLEAR WATER DIVERSION PIPE		SILT FENCE ON PAVEMENT	
CLEAR WATER PIPE		SOD	
COMBINATION INLET PROTECTION		STABILIZED CONSTRUCTION ENTRANCE	
CONCRETE WASHOUT STRUCTURE		STANDARD INLET PROTECTION	
CURB INLET PROTECTION		STOCKPILE AREA	
DIVERSION FENCE		STONE CHECK DAM	
EARTH DIKE		STONE/RIPRAP OUTLET SEDIMENT TRAP ST II	
EMERGENCY SPILLWAY		SUBSURFACE DRAINS	
FILTER BAG		SUMP PIT	
FILTER BERM		SUPER SILT FENCE	
FILTER LOG		TEMPORARY ACCESS BRIDGE	
GABION INFLOW PROTECTION		TEMPORARY ACCESS CULVERT	
GABION INLET PROTECTION		TEMPORARY ASPHALT BERM	
HORIZONTAL DRAW-DOWN DEVICE		TEMPORARY BARRIER DIVERSION	
LIMIT OF DISTURBANCE		TEMPORARY GABION OUTLET STRUCTURE	
MEDIAN INLET PROTECTION		TEMPORARY SOIL STABILIZATION MATTING-TYPE A	
MEDIAN SUMP INLET PROTECTION		TEMPORARY SOIL STABILIZATION MATTING-TYPE E	
MOUNTABLE BERM		TEMPORARY SOIL STABILIZATION MATTING-TYPE D	
PERIMETER DIKE/SWALE		TEMPORARY STONE OUTLET STRUCTURE	
PERMANENT SOIL STABILIZATION MATTING-TYPE B		TEMPORARY SWALE	
PERMANENT SOIL STABILIZATION MATTING-TYPE C		WASH RACK OPTION	
PIPE OUTLET SEDIMENT TRAP ST I		CHESAPEAKE BAY CRITICAL AREA	
PIPE SLOPE DRAIN		DRAINAGE BOUNDARY	
PLUNGE POOL		EXISTING CONTOURS	
PORTABLE SEDIMENT TANK		PROPOSED CONTOURS	
REMOVABLE PUMPING STATION		TREE PROTECTION FENCE	
RIPRAP INFLOW PROTECTION		WETLAND	
RIPRAP OUTLET SEDIMENT TRAP ST III		WETLAND BUFFER	
		100-YEAR FLOODPLAIN	

BEST MANAGEMENT PRACTICES FOR WORKING IN NONTIDAL WETLANDS, WETLAND BUFFERS, WATERWAYS, AND 100-YEAR FLOODPLAINS

- NO EXCESS FILL, CONSTRUCTION MATERIAL, OR DEBRIS SHALL BE STOCKPILED OR STORED IN NONTIDAL WETLANDS, NONTIDAL WETLAND BUFFERS, WATERWAYS, OR THE 100-YEAR FLOODPLAIN.
- PLACE MATERIALS IN A LOCATION AND MANNER WHICH DOES NOT ADVERSELY IMPACT SURFACE OR SUBSURFACE WATER FLOW INTO OR OUT OF NONTIDAL WETLANDS, NONTIDAL WETLAND BUFFERS, WATERWAYS, OR THE 100-YEAR FLOODPLAIN.
- DO NOT USE THE EXCAVATED MATERIAL AS BACKFILL IF IT CONTAINS WASTE METAL PRODUCTS, UNSIGHTLY DEBRIS, TOXIC MATERIAL, OR ANY OTHER DELETERIOUS SUBSTANCE. IF ADDITIONAL BACKFILL IS REQUIRED, USE CLEAN MATERIAL FREE OF WASTE METAL PRODUCTS, UNSIGHTLY DEBRIS, TOXIC MATERIAL, OR ANY OTHER DELETERIOUS SUBSTANCE.
- PLACE HEAVY EQUIPMENT ON MATS OR SUITABLY OPERATE THE EQUIPMENT TO PREVENT DAMAGE TO NONTIDAL WETLANDS, NONTIDAL WETLAND BUFFERS, WATERWAYS, OR THE 100-YEAR FLOODPLAIN.
- REPAIR AND MAINTAIN ANY SERVICEABLE STRUCTURE OR FILL SO THERE IS NO PERMANENT LOSS OF NONTIDAL WETLANDS, NONTIDAL WETLAND BUFFERS, OR WATERWAYS, OR PERMANENT MODIFICATION OF THE 100-YEAR FLOODPLAIN IN EXCESS OF THAT LOST UNDER THE ORIGINALLY AUTHORIZED STRUCTURE OR FILL.
- RECTIFY ANY NONTIDAL WETLANDS, WETLAND BUFFERS, WATERWAYS, OR 100-YEAR FLOODPLAIN TEMPORARILY IMPACTED BY ANY CONSTRUCTION.
- ALL STABILIZATION IN THE NONTIDAL WETLAND AND NONTIDAL WETLAND BUFFER SHALL CONSIST OF THE FOLLOWING SPECIES: ANNUAL RYEGRASS (LOLIUM MULTIFLORUM), MILLET (SETARIA ITALICA), BARLEY (HORDEUM SP.), OATS (UNIOLA SP.), AND/OR RYE (SECALE CEREALE). THESE SPECIES WILL ALLOW FOR THE STABILIZATION OF THE SITE WHILE ALSO ALLOWING FOR THE VOLUNTARY REVEGETATION OF NATURAL WETLAND SPECIES. OTHER NON-PERSISTENT VEGETATION MAY BE ACCEPTABLE, BUT MUST BE APPROVED BY THE NONTIDAL WETLANDS AND WATERWAYS DIVISION. KENTUCKY 31 FESCUE SHALL NOT BE UTILIZED IN WETLAND OR BUFFER AREAS. THE AREA SHOULD BE SEEDED AND MULCHED TO REDUCE EROSION AFTER CONSTRUCTION ACTIVITIES HAVE BEEN COMPLETED.
- AFTER INSTALLATION HAS BEEN COMPLETED, MAKE POST-CONSTRUCTION GRADES AND ELEVATIONS THE SAME AS THE ORIGINAL GRADES AND ELEVATIONS IN TEMPORARILY IMPACTED AREAS.
- TO PROTECT AQUATIC SPECIES, IN-STREAM WORK IS PROHIBITED AS DETERMINED BY THE CLASSIFICATION OF THE STREAM:
 - USE I WATERS: IN-STREAM WORK SHALL NOT BE CONDUCTED DURING THE PERIOD MARCH 1 THROUGH JUNE 15, INCLUSIVE, DURING ANY YEAR.
 - USE III WATERS: IN-STREAM WORK SHALL NOT BE CONDUCTED DURING THE PERIOD OCTOBER 1 THROUGH APRIL 30, INCLUSIVE, DURING ANY YEAR.
 - USE IV WATERS: IN-STREAM WORK SHALL NOT BE CONDUCTED DURING THE PERIOD MARCH 1 THROUGH MAY 31, INCLUSIVE, DURING ANY YEAR.
- STORMWATER RUNOFF FROM IMPERVIOUS SURFACES SHALL BE CONTROLLED TO PREVENT THE WASHING OF DEBRIS INTO THE WATERWAY.
- CULVERTS SHALL BE CONSTRUCTED AND ANY RIPRAP PLACED SO AS NOT TO OBSTRUCT THE MOVEMENT OF AQUATIC SPECIES, UNLESS THE PURPOSE OF THE ACTIVITY IS TO IMPOUND WATER.

SITE INFORMATION:	
A. TOTAL AREA OF FACILITY (BASE, CAMPUS, PARK, ETC.)	3.96 ACRES
B. TOTAL AREA OF PROJECT SITE	3.96 ACRES
C. AREA DISTURBED	3.48 ACRES
D. AREA TO BE PAVED OR PAVED	0.82 ACRES
E. TOTAL CUT	8651 CUBIC YARDS
F. TOTAL FILL	1291 CUBIC YARDS
G. OFF-SITE WASTE / BORROW AREA LOCATION	N/A

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 LICENSE NO: 38931 EXPIRATION DATE: 12-22-2023



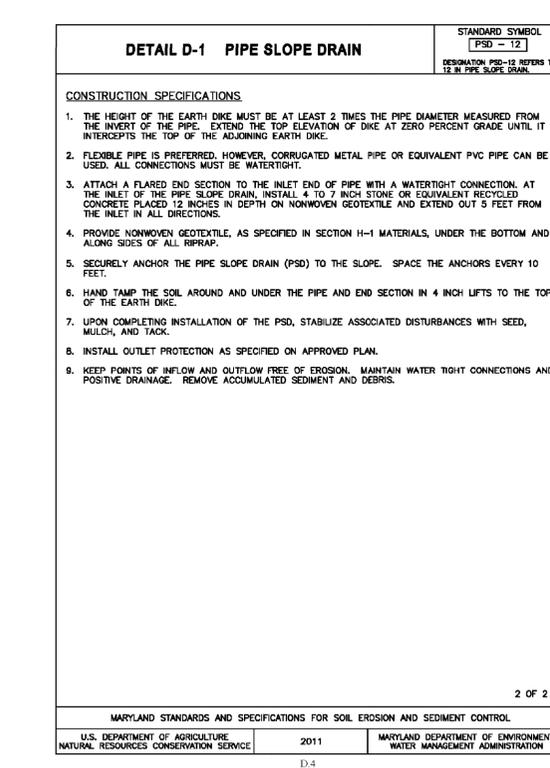
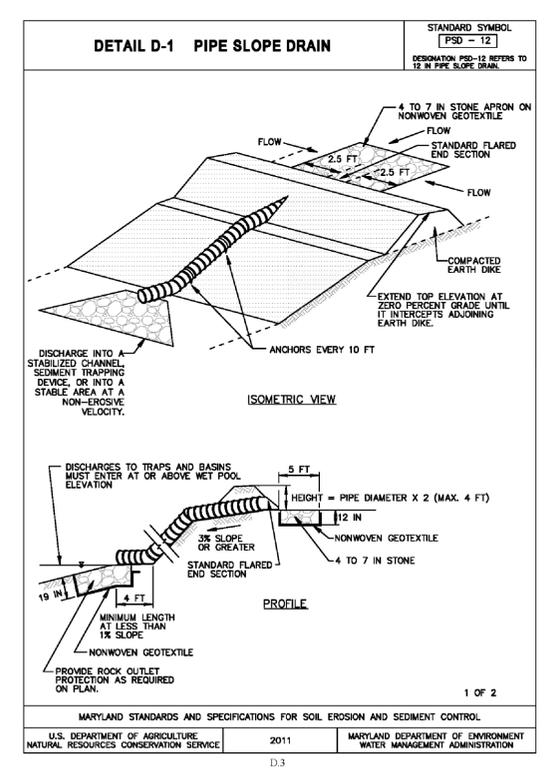
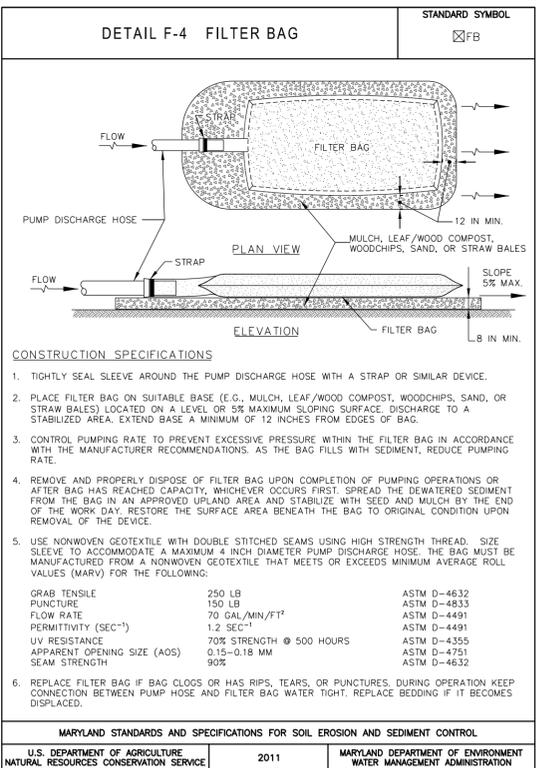
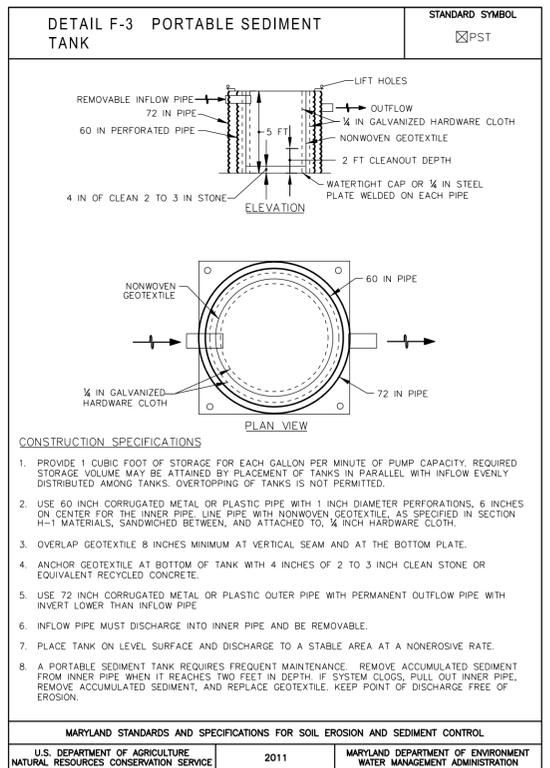
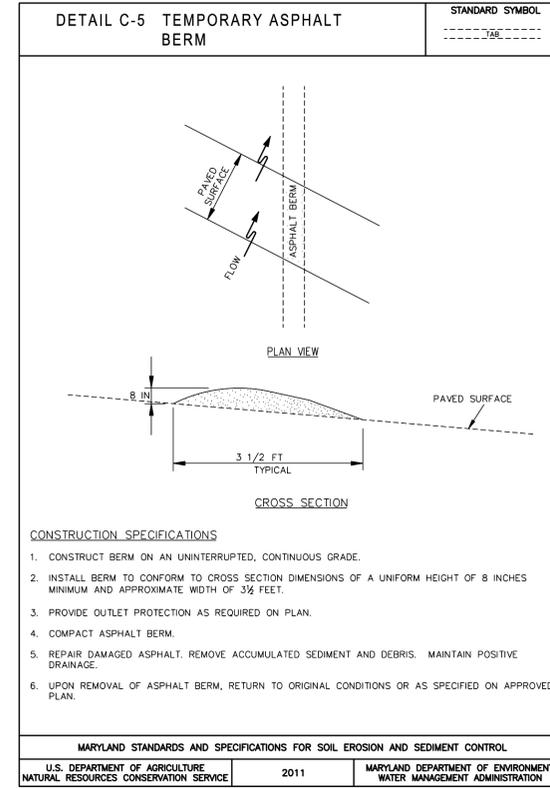
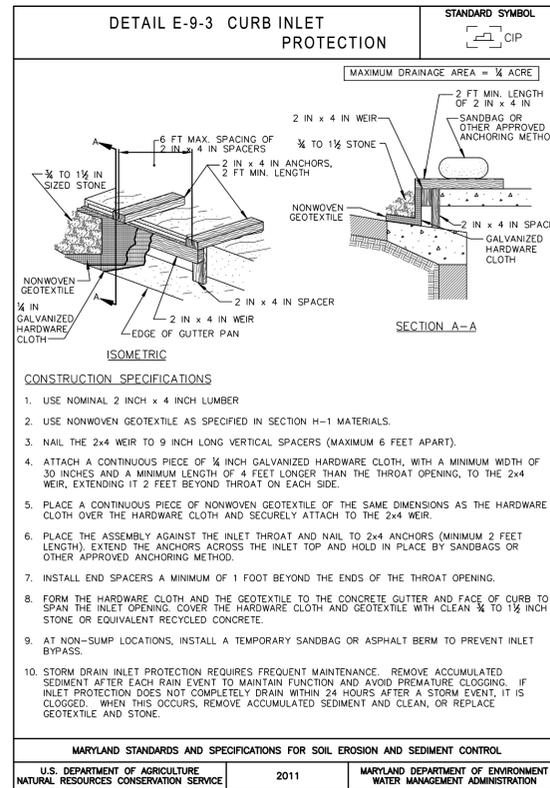
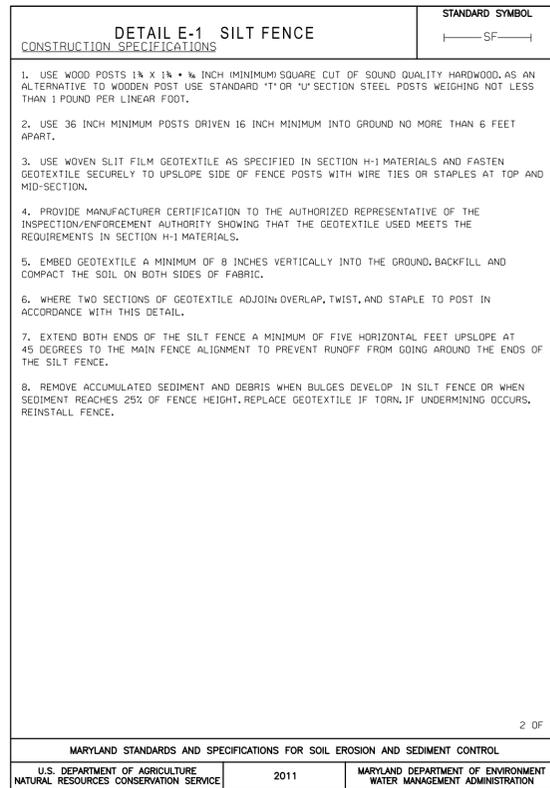
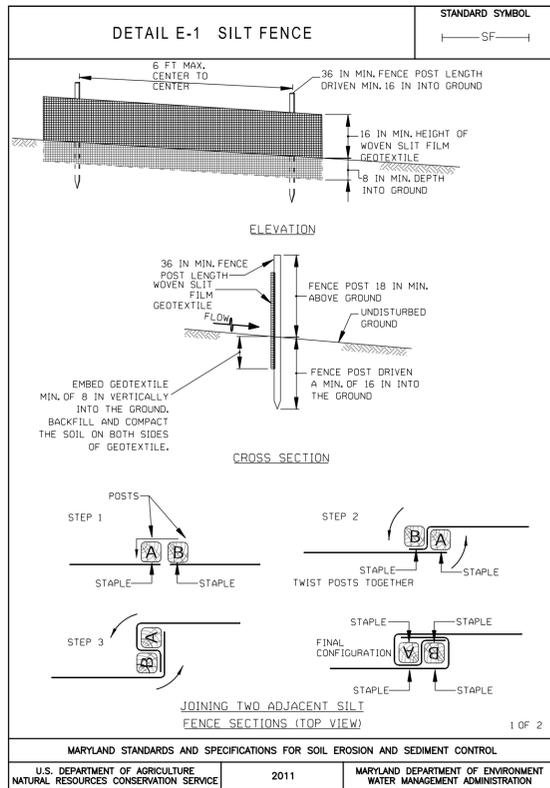
MONTGOMERY COUNTY
 DEPARTMENT OF TRANSPORTATION
 100 EDISON PARK DRIVE, 4TH FLOOR
 GAITHERSBURG, MD 20878

RECOMMENDED FOR APPROVAL
 FOR SIGNATURES SEE TITLE SHEET
 Chief, Design Section
 APPROVED
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 Chief, Division of Engineering Services

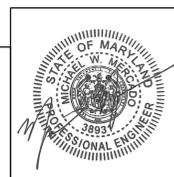
Designed by: MWM Drawn by: NL Checked by: MWM

DATUM: NAD 83/91 HORIZONTAL NAVD 88 VERTICAL			
NO.	REVISION	DATE	BY
1	Permittee/Contractor	12/10/24	WM

EROSION AND SEDIMENT CONTROL NOTES AND DETAILS SC-01 OF 19 MD 355 - CLARKSBURG SHARED USE PATH



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DATUM: NAD 83/91 HORIZONTAL
 NAVD 88 VERTICAL

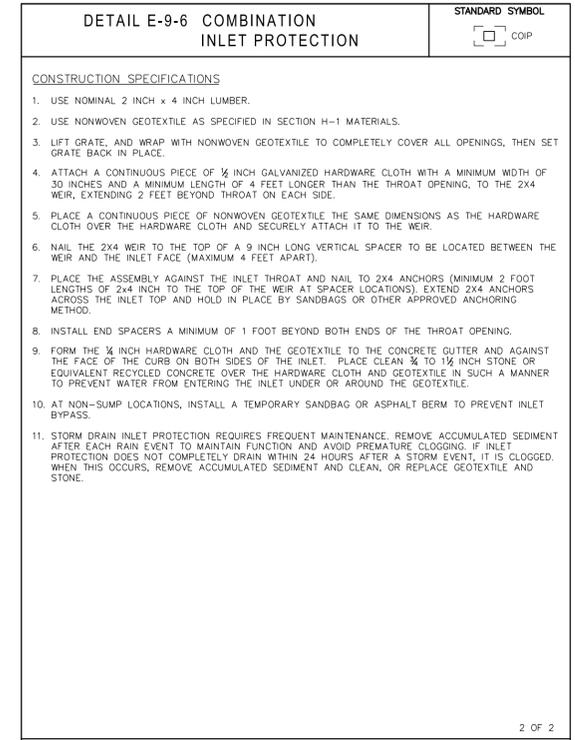
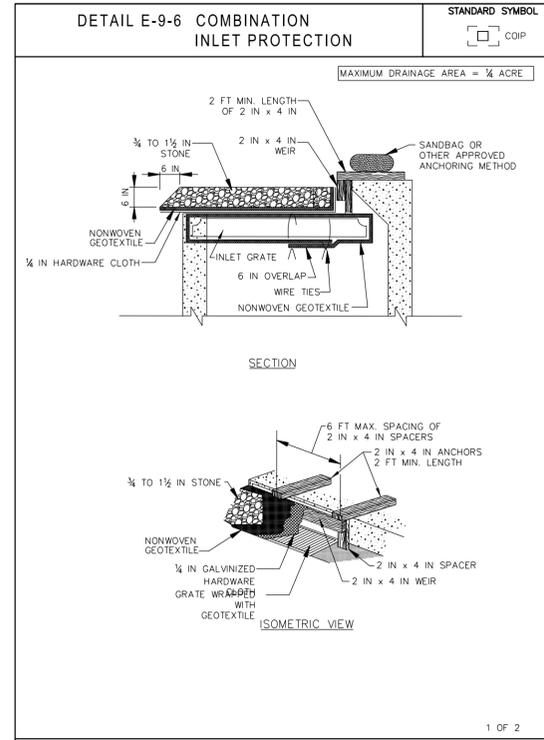
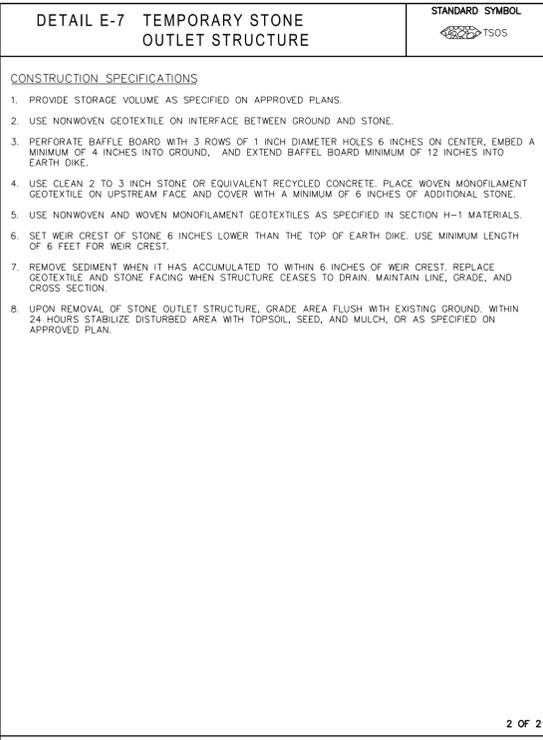
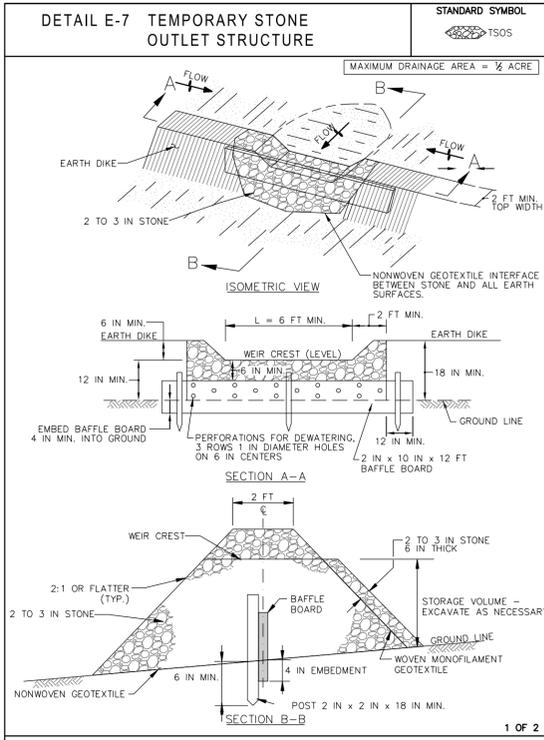
NO.	REVISION	DATE	BY

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

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 FOR SIGNATURES SEE TITLE SHEET
 Chief, Design Section
 APPROVED
 FOR SIGNATURES SEE TITLE SHEET
 Chief, Division of Engineering Services

Designed by: MWM Drawn by: NL Checked by: MWM

**EROSION AND SEDIMENT CONTROL
 NOTES AND DETAILS SC-02 OF 19
 MD 355 - CLARKSBURG
 SHARED USE PATH**

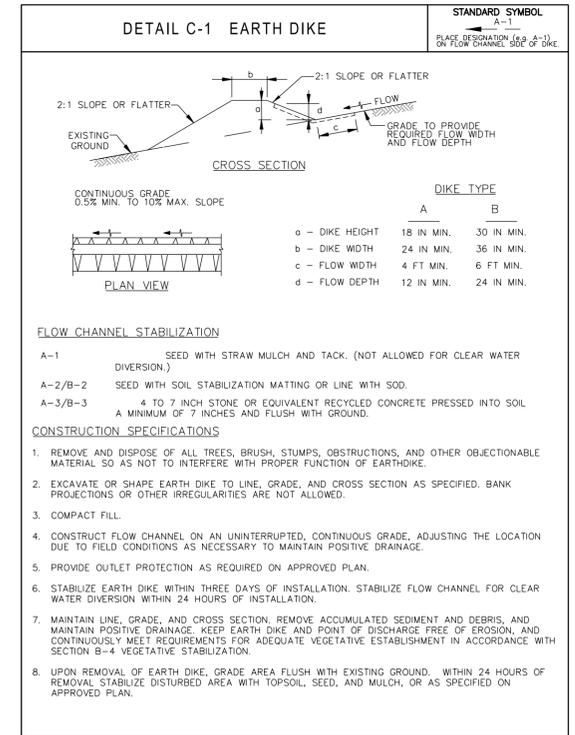
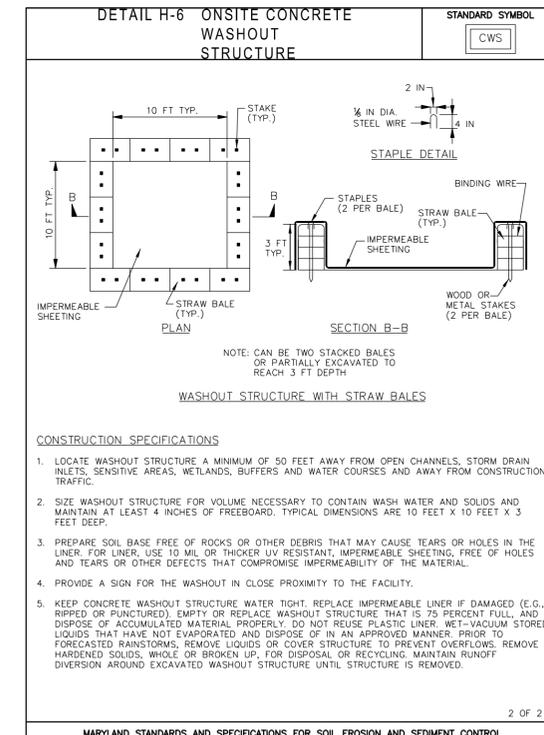
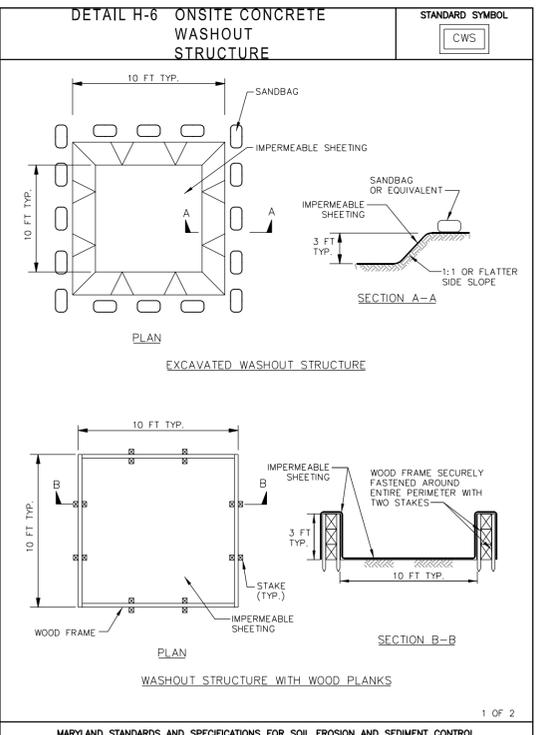
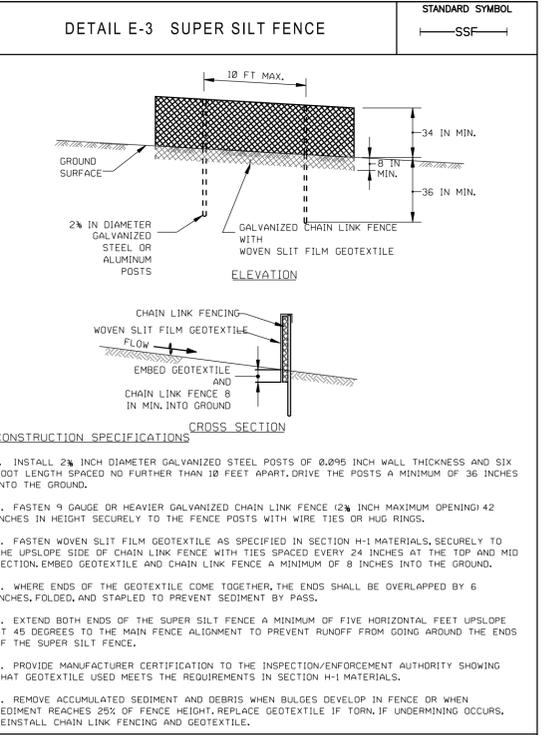


MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL
 U.S. DEPARTMENT OF AGRICULTURE NATURAL RESOURCES CONSERVATION SERVICE 2011 MARYLAND DEPARTMENT OF ENVIRONMENT WATER MANAGEMENT ADMINISTRATION

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 U.S. DEPARTMENT OF AGRICULTURE NATURAL RESOURCES CONSERVATION SERVICE 2011 MARYLAND DEPARTMENT OF ENVIRONMENT WATER MANAGEMENT ADMINISTRATION

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 U.S. DEPARTMENT OF AGRICULTURE NATURAL RESOURCES CONSERVATION SERVICE 2011 MARYLAND DEPARTMENT OF ENVIRONMENT WATER MANAGEMENT ADMINISTRATION

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 U.S. DEPARTMENT OF AGRICULTURE NATURAL RESOURCES CONSERVATION SERVICE 2011 MARYLAND DEPARTMENT OF ENVIRONMENT WATER MANAGEMENT ADMINISTRATION



MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL
 U.S. DEPARTMENT OF AGRICULTURE NATURAL RESOURCES CONSERVATION SERVICE 2011 MARYLAND DEPARTMENT OF ENVIRONMENT WATER MANAGEMENT ADMINISTRATION

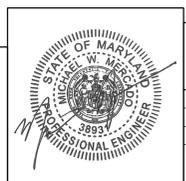
MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL
 U.S. DEPARTMENT OF AGRICULTURE NATURAL RESOURCES CONSERVATION SERVICE 2011 MARYLAND DEPARTMENT OF ENVIRONMENT WATER MANAGEMENT ADMINISTRATION

MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL
 U.S. DEPARTMENT OF AGRICULTURE NATURAL RESOURCES CONSERVATION SERVICE 2011 MARYLAND DEPARTMENT OF ENVIRONMENT WATER MANAGEMENT ADMINISTRATION

MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL
 U.S. DEPARTMENT OF AGRICULTURE NATURAL RESOURCES CONSERVATION SERVICE 2011 MARYLAND DEPARTMENT OF ENVIRONMENT WATER MANAGEMENT ADMINISTRATION



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 LICENSE NO: 38931 EXPIRATION DATE: 12-22-2023



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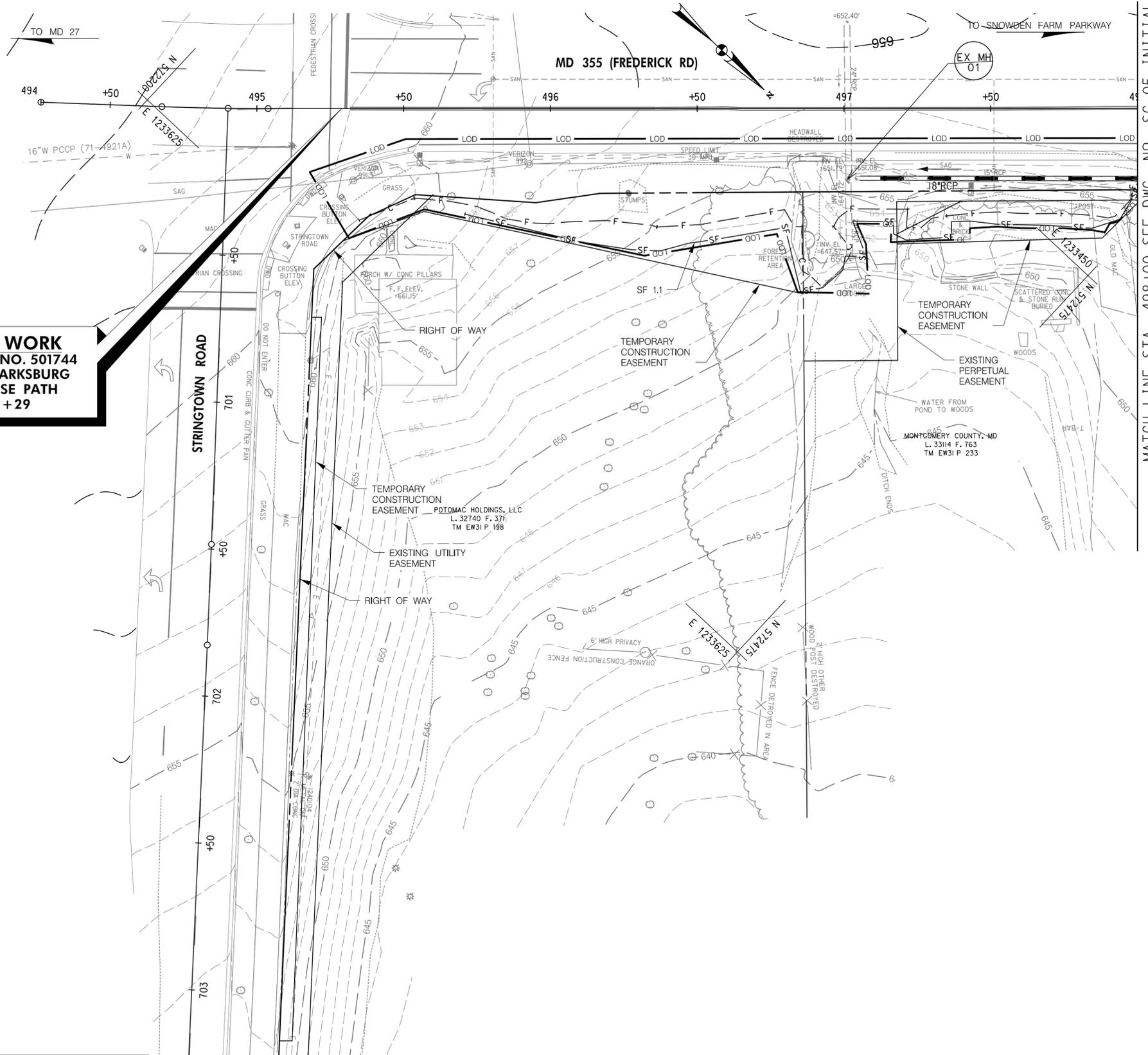
MONTGOMERY COUNTY
 DEPARTMENT OF TRANSPORTATION
 100 EDISON PARK DRIVE, 4TH FLOOR
 GAITHERSBURG, MD 20878

RECOMMENDED FOR APPROVAL
 FOR SIGNATURES SEE TITLE SHEET
 Chief, Design Section
 APPROVED
 FOR SIGNATURES SEE TITLE SHEET
 Chief, Division of Engineering Services

Designed by: MWM Drawn by: NL Checked by: MWM

EROSION AND SEDIMENT CONTROL NOTES AND DETAILS SC-03 of 19
MD 355 - CLARKSBURG
SHARED USE PATH

Project No.: C.I.P.R. # 501744 SHEET 31 of 97

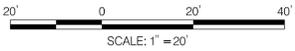


LIMIT OF WORK
 C.I.P. PROJECT NO. 501744
 MD 355 - CLARKSBURG
 SHARED USE PATH
 STA. 495+29

MATCH LINE STA. 498+00 SEE DWG. NO. SC-05 INITIAL

SILT FENCE (SF)		
SF 1.1	322 LF	STA. 495+71 TO 498+57, RT

NOTES:
 1. NO DISTURBED AREA SHALL BE LEFT UNSTABILIZED OVERNIGHT.
 2. FOR FOREST CONSERVATION MEASURES, REFER TO LANDSCAPING PLANS.



LEGEND

LIMIT OF DISTURBANCE	— LOD —
SILT FENCE PHASE 1	— SF —
SAME DAY STABILIZATION	

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 LICENSE NO: 38931 EXPIRATION DATE: 12-22-2023



DATUM: NAD 83/91 HORIZONTAL
 NAVD 88 VERTICAL

NO.	REVISION	DATE	BY

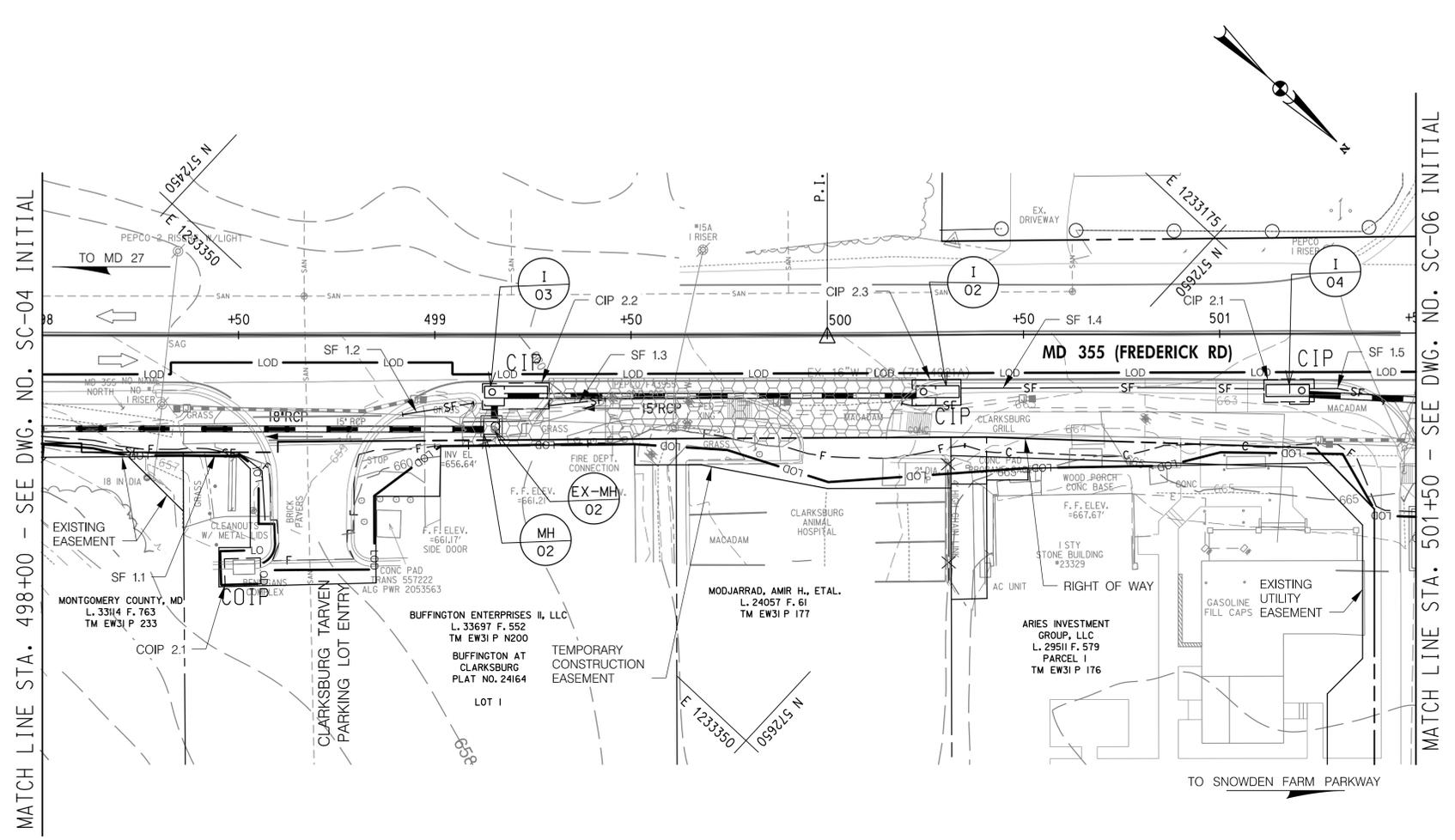
MONTGOMERY COUNTY
 DEPARTMENT OF TRANSPORTATION
 100 EDISON PARK DRIVE, 4TH FLOOR
 GAITHERSBURG, MD 20878

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 Chief, Design Section

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 Chief, Division of Engineering Services

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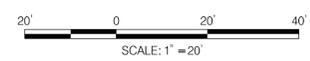
**EROSION AND SEDIMENT CONTROL
 PLANS PHASE 1 SC-04 OF 19
 MD 355 - CLARKSBURG
 SHARED USE PATH
 STA. 495+29 TO STA. 498+00**



INLET PROTECTION (IP)			
ID NO.	STATION	QUANTITY	DRAINAGE AREA (AC)
CIP 2.1	STA. 501+20, RT	1 EA	0.07
CIP 2.2	STA. 499+21, RT	1 EA	0.07
CIP 2.3	STA. 500+28, RT	1 EA	0.02
COIP 2.1	STA. 498+51, RT	1 EA	0.25

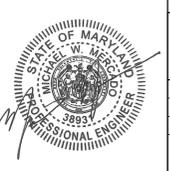
SILT FENCE (SF)			
ID	LENGTH (LF)	STATION	DRAINAGE
SF 1.1	322	STA. 495+71 TO 498+57, RT	
SF 1.2	18	STA. 498+92 TO 499+10, RT	
SF 1.3	15	STA. 499+29 TO 499+43, RT	
SF 1.4	97	STA. 500+19 TO 501+11, RT	
SF 1.5	20	STA. 501+23 TO 501+42, RT	

NOTES:
 1. NO DISTURBED AREA SHALL BE LEFT UNSTABILIZED OVERNIGHT.
 2. FOR FOREST CONSERVATION MEASURES, REFER TO LANDSCAPING PLANS.



LEGEND	
LIMIT OF DISTURBANCE	— LOD —
SILT FENCE PHASE 1	— SF —
SAME DAY STABILIZATION	▨
CURB INLET PROTECTION PHASE 1	□ CIP
COMBINATION INLET PROTECTION PHASE 1	□ COIP

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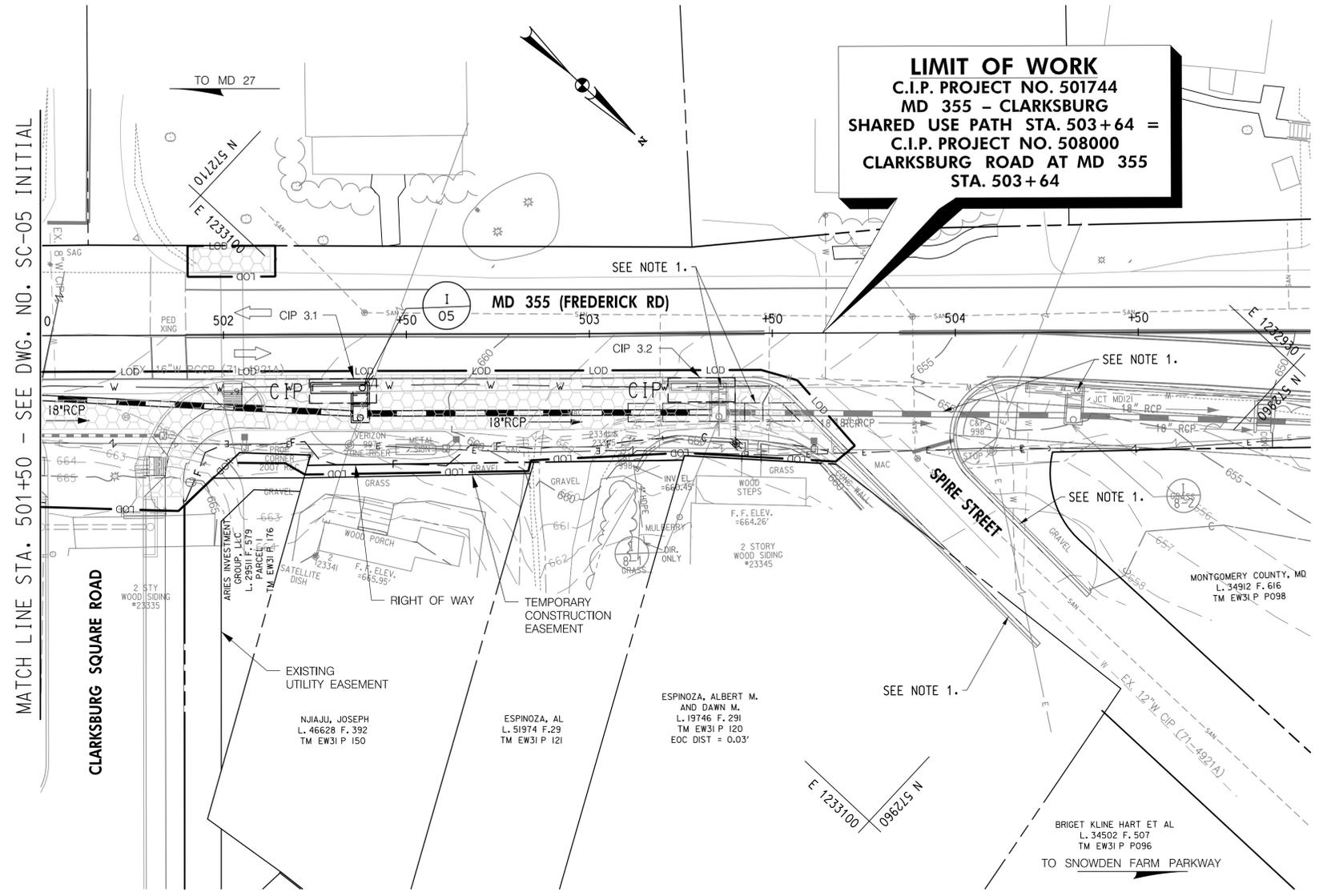
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NO.	REVISION	DATE	BY

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

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

Designed by : MWM Drawn by : NL Checked by : MWM

**EROSION AND SEDIMENT CONTROL
 PLANS PHASE 1 SC-05 OF 19
 MD 355 - CLARKSBURG
 SHARED USE PATH
 STA. 498+00 TO STA. 501+50**



LIMIT OF WORK
 C.I.P. PROJECT NO. 501744
 MD 355 - CLARKSBURG
 SHARED USE PATH STA. 503+64 =
 C.I.P. PROJECT NO. 508000
 CLARKSBURG ROAD AT MD 355
 STA. 503+64

MATCH LINE STA. 501+50 - SEE DWG. NO. SC-05 INITIAL

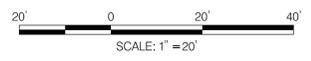
INLET PROTECTION (IP)			
ID NO.	STATION	QUANTITY	DRAINAGE AREA (AC)
CIP 3.1	STA. 502+33, RT	1 EA	0.02
CIP 3.2	STA. 503+29, RT	1 EA	0.07

- NOTES:
- CURB & GUTTER, SHARED USE PATH, TEMPORARY CURB RAMP, INLETS AND STORM DRAIN TO BE CONSTRUCTED BY C.I.P. PROJECT 508000 BEFORE THIS PROJECT.
 - NO DISTURBED AREA SHALL BE LEFT UNSTABILIZED OVERNIGHT.
 - FOR FOREST CONSERVATION MEASURES, REFER TO LANDSCAPING PLANS.

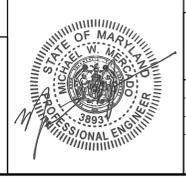


LEGEND

LIMIT OF DISTURBANCE	— LOD —
CURB INLET PROTECTION PHASE 1	□ CIP
SAME DAY STABILIZATION	▨



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NO.	REVISION	DATE	BY

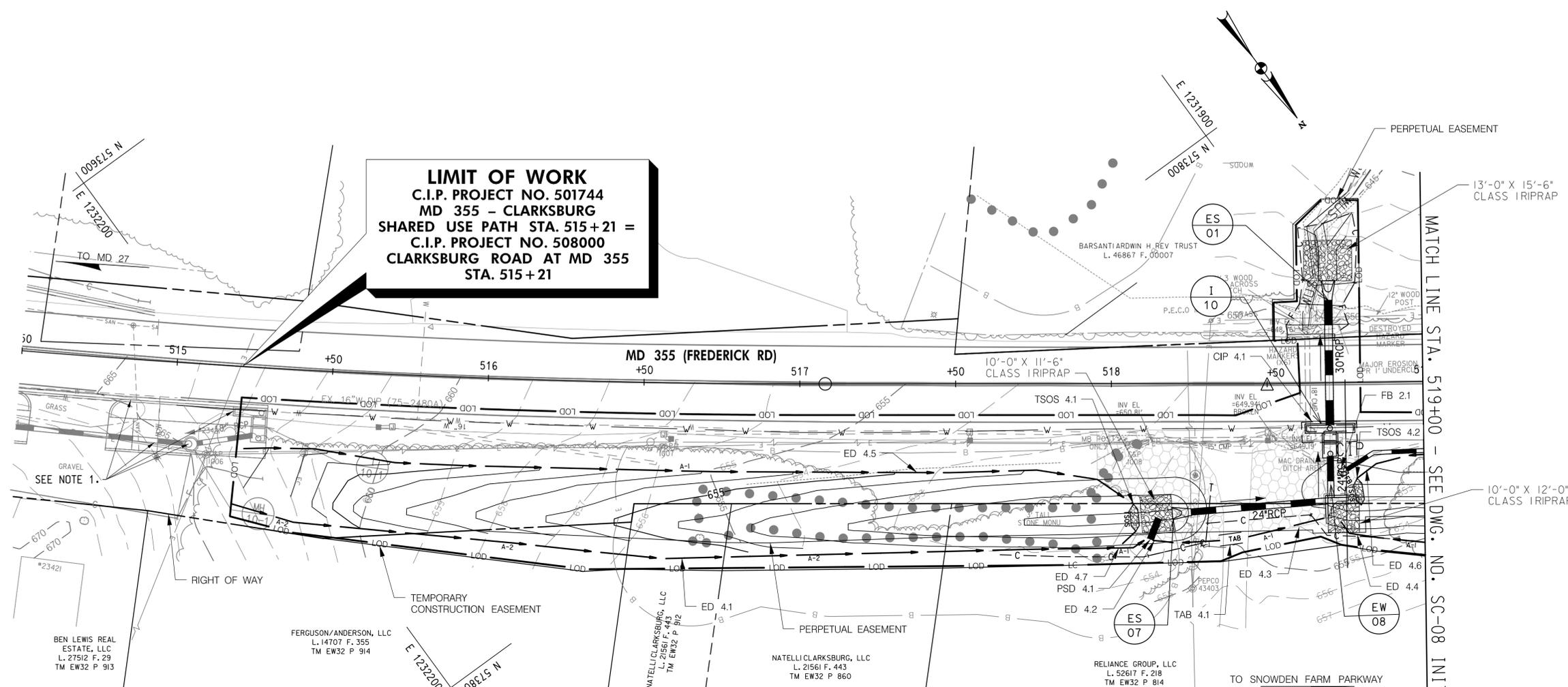
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**EROSION AND SEDIMENT CONTROL
 PLANS PHASE 1 SC- 06 OF 19
 MD 355 - CLARKSBURG
 SHARED USE PATH
 STA. 501+50 TO STA. 505+00**

Project No. : C.I.P. PR. # 501744 SHEET 34 of 97



LIMIT OF WORK
 C.I.P. PROJECT NO. 501744
 MD 355 - CLARKSBURG
 SHARED USE PATH STA. 515+21 =
 C.I.P. PROJECT NO. 508000
 CLARKSBURG ROAD AT MD 355
 STA. 515+21

EARTH DIKE (ED)				
ID NO.	LENGTH (LF)	STATION	TOP ELEV. (FT)	DRAINAGE AREA (AC)
ED 4.1	293	STA. 515+21 TO 518+10, RT	663.6	5.42
ED 4.2	21	STA. 518+13 TO 518+35, RT	657.0	0.66
ED 4.3	23	STA. 518+44 TO 518+63, RT	655.0	0.31
ED 4.4	136	STA. 518+73 TO 520+22, RT	661.5	1.09
ED 4.5	289	STA. 515+23 TO 518+07, RT	662.7	0.23
ED 4.6	115	STA. 518+78 TO 519+91, RT	654.0	0.01
ED 4.7	13	STA. 517+99 TO 518+12, RT	657.0	0.02

INLET PROTECTION (IP)			
ID NO.	STATION	QUANTITY	DRAINAGE AREA (AC)
CIP 4.1	STA. 518+72, RT	1 EA	0.34

TEMPORARY STONE OUTLET STRUCTURE (TSOS)					
ID NO.	STATION	WEIR ELEV. (FT)	DRAINAGE AREA (AC)	STORAGE REQUIRED (CF)	STORAGE PROVIDED (CF)
TSOS 4.1	STA. 518+07, RT	652.5	0.19	342	501
TSOS 4.2	STA. 518+79, RT	653.5	0.10	180	568

TEMPORARY ASPHALT BERM (TAB)		
ID NO.	STATION	LENGTH (FT)
TAB 4.1	STA. 518+40, RT	10

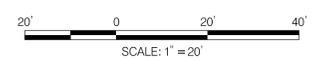
PIPE SLOPE DRAIN (PSD)				
ID NO.	STATION	LENGTH (FT)	DIAMETER (IN)	DRAINAGE AREA (AC)
PSD 4.1	STA. 518+11, RT	7	24	0.66

FILTER BAG (FB)		
ID NO.	QUANTITY	STATION
FB 2.1	1 EA	STA. 518+75, RT

NOTES:
 1. CURB & GUTTER, SHARED USE PATH, TEMPORARY CURB RAMP, INLETS AND STORM DRAIN TO BE CONSTRUCTED BY C.I.P. PROJECT 508000 BEFORE THIS PROJECT.
 2. NO DISTURBED AREA SHALL BE LEFT UNSTABILIZED OVERNIGHT.
 3. FOR FOREST CONSERVATION MEASURES, REFER TO LANDSCAPING PLANS.



LEGEND			
	LIMIT OF DISTURBANCE		CURB INLET PROTECTION PHASE 1
	EARTH DIKE PHASE 1		TEMPORARY STONE OUTLET STRUCTURE PHASE 1
	PIPE SLOPE DRAIN PHASE 1		SAME DAY STABILIZATION
	TEMPORARY ASPHALT BERM PHASE 1		FILTER BAG PHASE 1



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

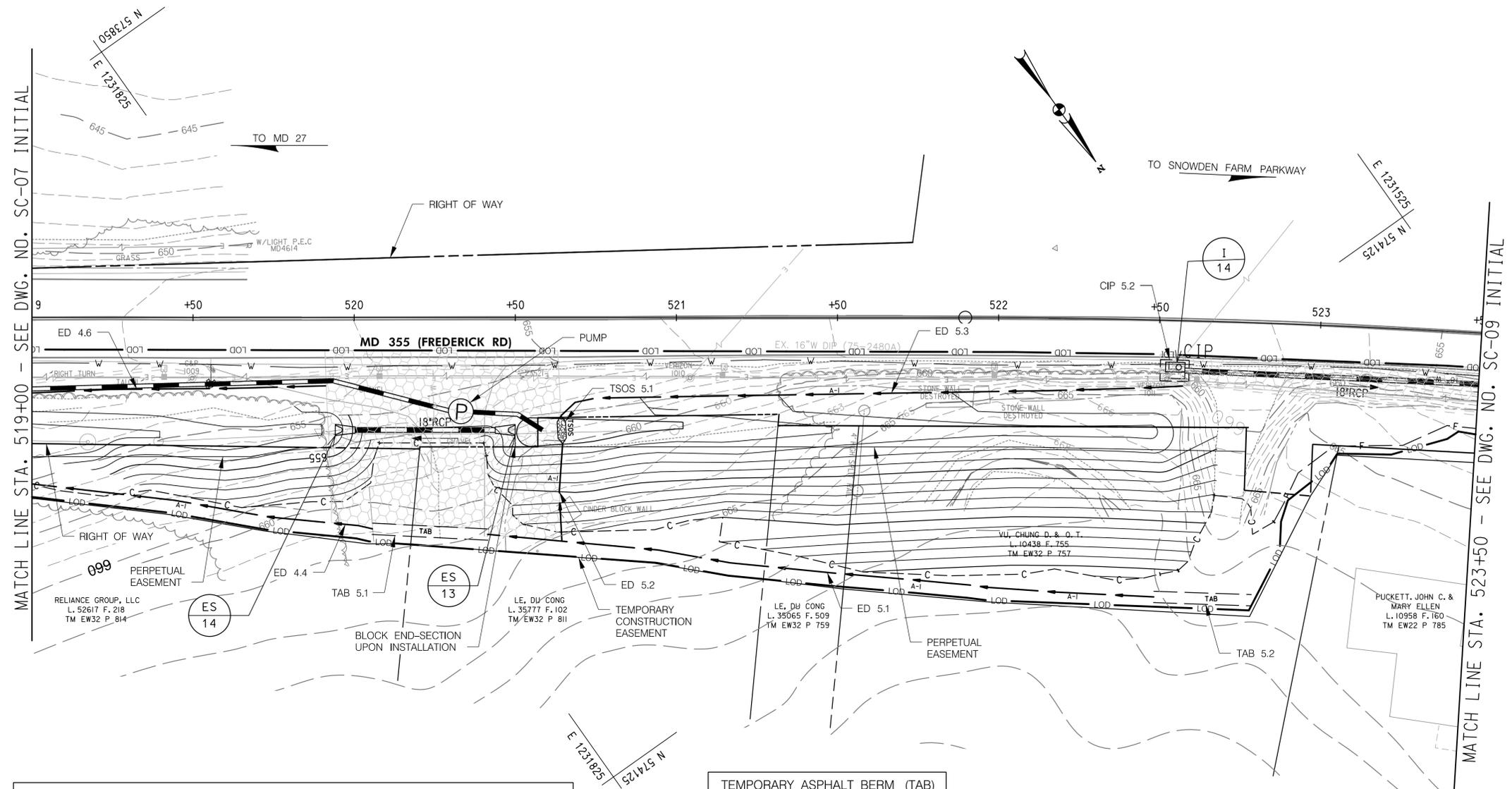
RECOMMENDED FOR APPROVAL
 FOR SIGNATURES SEE TITLE SHEET
 Chief, Design Section
 APPROVED
 FOR SIGNATURES SEE TITLE SHEET
 Chief, Division of Engineering Services

Designed by: MWM Drawn by: NL Checked by: MWM

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.: 38931 EXPIRATION DATE: 12-22-2023



**EROSION AND SEDIMENT CONTROL
 PLANS PHASE 1 SC-07 OF 19
 MD 355 - CLARKSBURG
 SHARED USE PATH
 STA. 514+50 TO STA. 519+00**



TEMPORARY STONE OUTLET STRUCTURE (TSOS)					
ID NO.	STATION	WEIR ELEV. (FT)	DRAINAGE AREA (AC)	STORAGE REQUIRED (CF)	STORAGE PROVIDED (CF)
TSOS 5.1	STA. 520+64, RT	656.5	0.25	450	505

TEMPORARY ASPHALT BERM (TAB)		
ID NO.	STATION	LENGTH (FT)
TAB 5.1	STA. 520+23, RT	36
TAB 5.2	STA. 522+68, RT	36

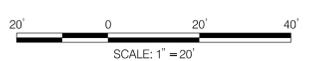
EARTH DIKE (ED)				
ID NO.	LENGTH (LF)	STATION	TOP ELEV. (FT)	DRAINAGE AREA (AC)
ED 5.1	208	STA. 520+41 TO 522+50, RT	661.5	0.96
ED 5.2	30	STA. 520+64 TO 520+65, RT	666.5	0.01
ED 5.3	195	STA. 520+64 TO 522+58, RT	666.5	0.05

INLET PROTECTION (IP)			
ID NO.	STATION	QUANTITY	DRAINAGE AREA (AC)
CIP 5.2	STA. 522+56, RT	1 EA	0.04

NOTES:
 1. NO DISTURBED AREA SHALL BE LEFT UNSTABILIZED OVERNIGHT.
 2. FOR FOREST CONSERVATION MEASURES, REFER TO LANDSCAPING PLANS.



LEGEND			
— LOD —	— A-1 —	— TAB —	— TSOS —
— EARTH DIKE PHASE 1 —	— CIP —	— SAME DAY STABILIZATION —	— TEMPORARY STONE OUTLET STRUCTURE PHASE 1 —



DATUM: NAD 83/91 HORIZONTAL NAVD 88 VERTICAL			
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MONTGOMERY COUNTY
 DEPARTMENT OF TRANSPORTATION
 100 EDISON PARK DRIVE, 4TH FLOOR
 GAITHERSBURG, MD 20878

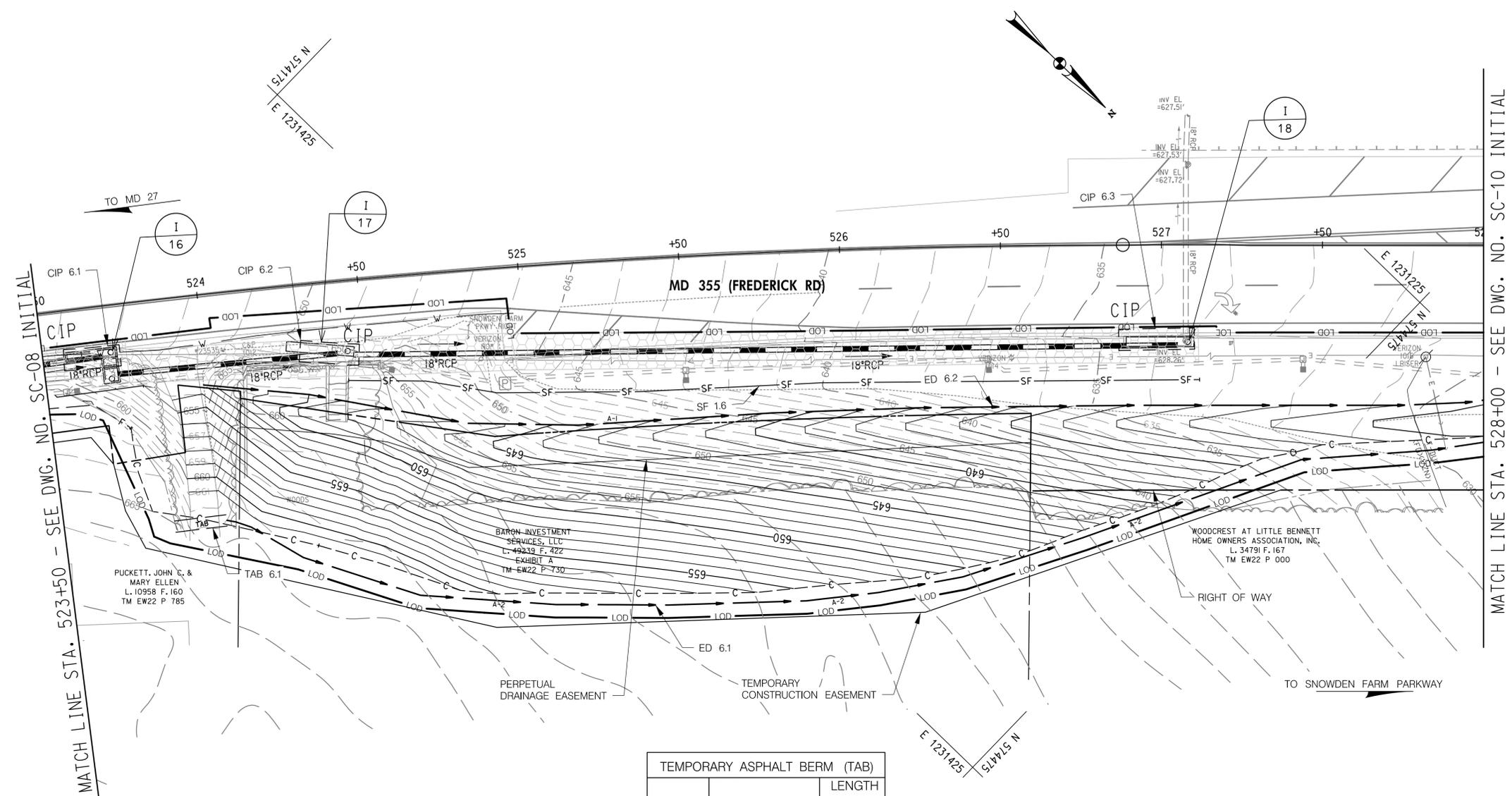
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 Chief, Division of Engineering Services _____ Date _____

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**EROSION AND SEDIMENT CONTROL
 PLANS PHASE 1 SC- 08 OF 19
 MD 355 - CLARKSBURG
 SHARED USE PATH
 STA. 519+00 TO STA. 523+50**



MATCH LINE STA. 523+50 - SEE DWG. NO. SC-08 INITIAL

MATCH LINE STA. 528+00 - SEE DWG. NO. SC-10 INITIAL

TEMPORARY ASPHALT BERM (TAB)		
ID NO.	STATION	LENGTH (FT)
TAB 6.1	STA. 523+89, RT	16

INLET PROTECTION (IP)			
ID NO.	STATION	QUANTITY	DRAINAGE AREA (AC)
CIP 6.1	STA. 523+56, RT	1 EA	0.04
CIP 6.2	STA. 524+40, RT	1 EA	0.04
CIP 6.3	STA. 527+00, RT	1 EA	0.03

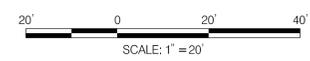
EARTH DIKE (ED)				
ID NO.	LENGTH (LF)	STATION	TOP ELEV. (FT)	DRAINAGE AREA (AC)
ED 6.1	460	STA. 524+02 TO 528+56, RT	663.0	2.97
ED 6.2	456	STA. 524+00 TO 528+56, RT	658.3	0.41

SILT FENCE (SF)			
ID NO.	LENGTH (LF)	STATION	STATION
SF 1.6	265	STA. 524+44 TO 527+12, RT	

- NOTES:**
- NO DISTURBED AREA SHALL BE LEFT UNSTABILIZED OVERNIGHT.
 - FOR FOREST CONSERVATION MEASURES, REFER TO LANDSCAPING PLANS.



LEGEND			
LIMIT OF DISTURBANCE	— LOD —	TEMPORARY ASPHALT BERM PHASE 1	— TAB —
EARTH DIKE PHASE 1	— A-2 —	SAME DAY STABILIZATION	— [Symbol] —
CURB INLET PROTECTION PHASE 1	□ CIP	SILT FENCE PHASE 1	— SF —



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

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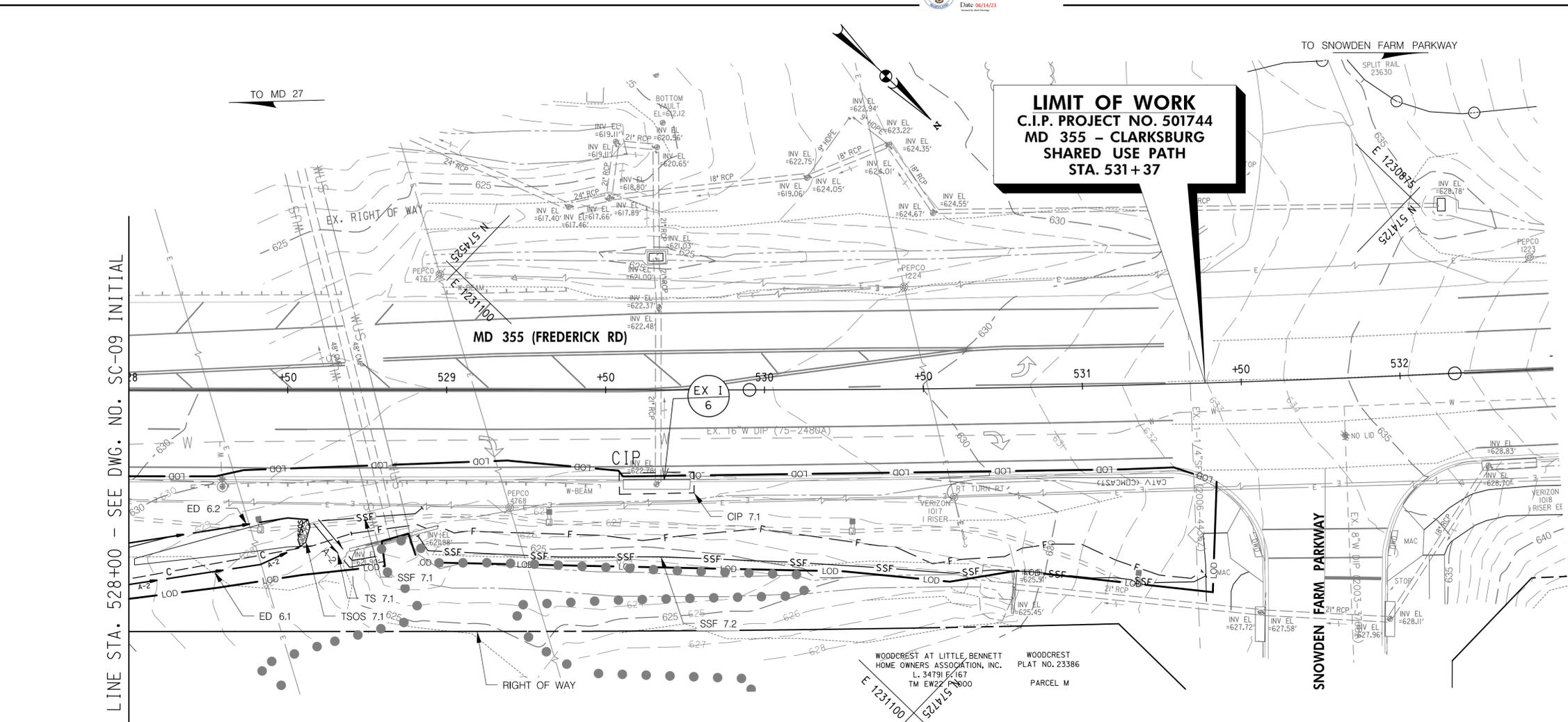
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 Chief, Division of Engineering Services _____ Date _____

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**EROSION AND SEDIMENT CONTROL
 PLANS PHASE 1 SC- 09 OF 19
 MD 355 - CLARKSBURG
 SHARED USE PATH
 STA. 523+50 TO STA. 528+00**



MATCH LINE STA. 528+00 - SEE DWG. NO. SC-09 INITIAL

LIMIT OF WORK
 C.I.P. PROJECT NO. 501744
 MD 355 - CLARKSBURG
 SHARED USE PATH
 STA. 531+37

DETAIL C-2 TEMPORARY SWALE

STANDARD SYMBOL
 A-1

CROSS SECTION
 2:1 SLOPE OR FLATTER
 EXISTING GROUND
 DEPTH
 WIDTH
 MIN. DEPTH 1 FT MIN.
 BOTTOM WIDTH 4 FT MIN.
 SWALE TYPE
 A B
 1 FT MIN. 1 FT MIN.
 4 FT MIN. 6 FT MIN.

PLAN VIEW
 CONTINUOUS GRADE
 0.5% MIN. TO 10% MAX. SLOPE
 FLOW

FLOW CHANNEL STABILIZATION

- A-1 SEED WITH STRAW MULCH AND TACK. (NOT ALLOWED FOR CLEAR WATER DIVERSION.)
- A-2/B-2 SEED WITH SOIL STABILIZATION MATTING OR LINE WITH SOD.
- A-3/B-3 4 TO 7 INCH STONE OR EQUIVALENT RECYCLED CONCRETE PRESSED INTO SOIL A MINIMUM OF 7 INCHES AND FLUSH WITH GROUND.

CONSTRUCTION SPECIFICATIONS

- REMOVE AND DISPOSE OF ALL TREES, BRUSH, STUMPS, OBSTRUCTIONS, AND OTHER OBJECTIONABLE MATERIAL SO AS NOT TO INTERFERE WITH PROPER FUNCTION OF TEMPORARY SWALE.
- EXCAVATE OR SHAPE TEMPORARY SWALE TO LINE, GRADE, AND CROSS SECTION AS SPECIFIED. BANK PROJECTIONS OR OTHER IRREGULARITIES ARE NOT ALLOWED.
- STABILIZE TEMPORARY SWALE WITHIN THREE DAYS OF INSTALLATION. STABILIZE SWALES USED FOR CLEAR WATER DIVERSION WITHIN 24 HOURS OF INSTALLATION.
- CONSTRUCT FLOW CHANNEL ON AN UNINTERRUPTED, CONTINUOUS GRADE, ADJUSTING THE LOCATION DUE TO FIELD CONDITIONS AS NECESSARY TO MAINTAIN POSITIVE DRAINAGE.
- PROVIDE OUTLET PROTECTION AS REQUIRED ON APPROVED PLAN.
- MAINTAIN LINE, GRADE, AND CROSS SECTION. REMOVE ACCUMULATED SEDIMENT AND DEBRIS, AND MAINTAIN POSITIVE DRAINAGE. KEEP TEMPORARY SWALE AND POINT OF DISCHARGE FREE OF EROSION, AND CONTINUOUSLY MEET REQUIREMENTS FOR ADEQUATE VEGETATIVE ESTABLISHMENT IN ACCORDANCE WITH SECTION B-4 VEGETATIVE STABILIZATION.
- UPON REMOVAL OF TEMPORARY SWALE, GRADE AREA FLUSH WITH EXISTING GROUND, WITHIN 24 HOURS OF REMOVAL STABILIZE DISTURBED AREA WITH TOPSOIL, SEED, AND MULCH, OR AS SPECIFIED ON APPROVED PLAN.

MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL

U.S. DEPARTMENT OF AGRICULTURE NATURAL RESOURCES CONSERVATION SERVICE 2011 MARYLAND DEPARTMENT OF ENVIRONMENT WATER MANAGEMENT ADMINISTRATION

C.11

SUPER SILT FENCE (SSF)

SSF 7.1	37 LF	STA. 528+61 TO 528+92, RT
SSF 7.2	252 LF	STA. 528+91 TO 531+37, RT

INLET PROTECTION (IP)

ID NO.	STATION	QUANTITY	DRAINAGE AREA (AC)
CIP 7.1	STA. 529+68, RT	1 EA	0.60

TEMPORARY SWALE (TS)

ID NO.	STATION	LENGTH (FT.)	DRAINAGE AREA (AC)
TS 7.1	STA. 528+59, RT	27.65	3.38

TEMPORARY STONE OUTLET STRUCTURE (TSOS)

ID NO.	STATION	WEIR ELEV. (FT)	DRAINAGE AREA (AC)	STORAGE REQUIRED (CF)	STORAGE PROVIDED (CF)
TSOS 7.1	STA. 528+56, RT	631.0	0.40	720	1105

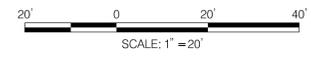
NOTES:

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- FOR FOREST CONSERVATION MEASURES, REFER TO LANDSCAPING PLANS.



LEGEND

— LOD —	SUPER SILT FENCE PHASE 1	— SSF —
— A-2 —	TEMPORARY STONE OUTLET STRUCTURE PHASE 1	— TSOS —
□ CIP	TEMPORARY SWALE PHASE 1	— A-2 —



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

FOR SIGNATURES SEE TITLE SHEET
 Chief, Design Section _____ Date _____

APPROVED

FOR SIGNATURES SEE TITLE SHEET
 Chief, Division of Engineering Services _____ Date _____

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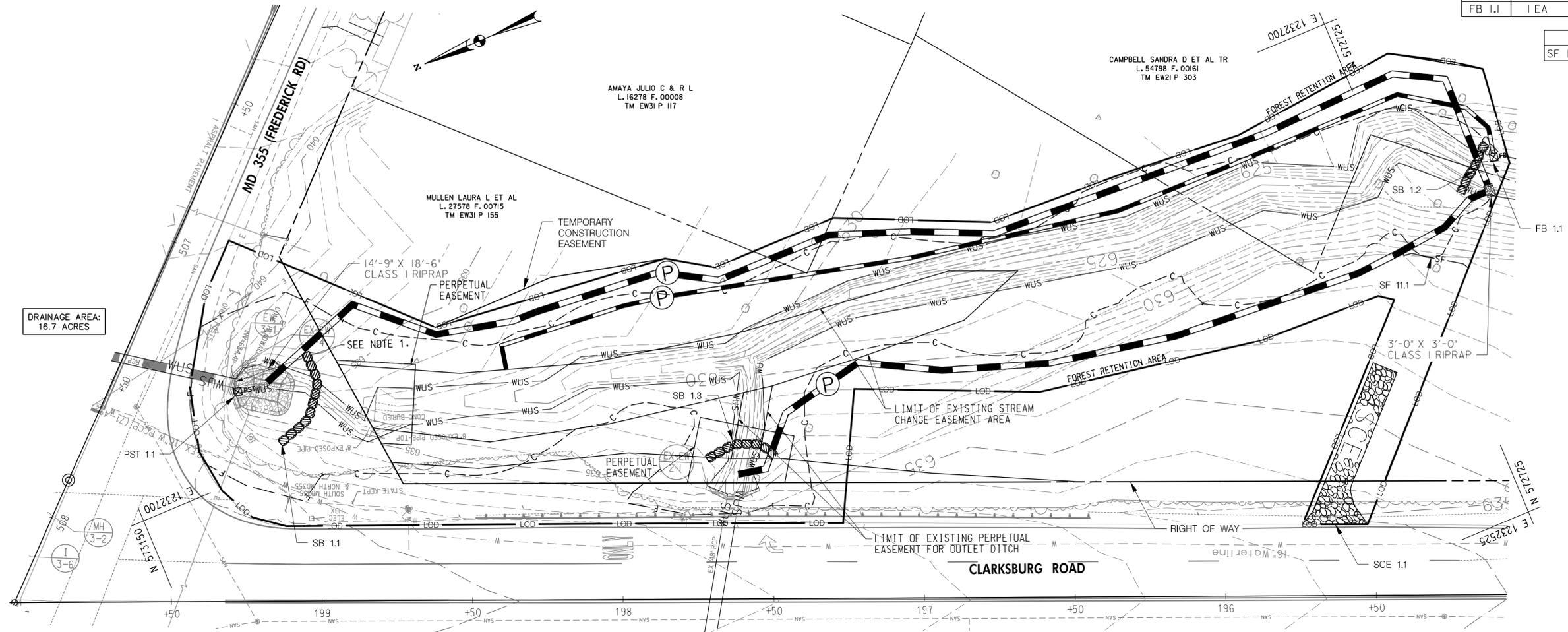
LICENSE NO: 38931 EXPIRATION DATE: 12-22-2023



**EROSION AND SEDIMENT CONTROL
 PLANS PHASE 1 SC- 10 OF 19
 MD 355 - CLARKSBURG
 SHARED USE PATH
 STA. 528+00 TO STA. 531+37**

FILTER BAG (FB)			PORTABLE SEDIMENT TANK (PST)		
ID NO.	QUANTITY	STATION	ID NO.	QUANTITY	STATION
FB 1.1	1 EA	STA. 195+12, RT	PST 1.1	1 EA	STA. 199+28, RT

SILT FENCE (SF)		
SF 11.1	22 LF	STA. 195+19 TO 195+40, LT



MGWC 1.2: PUMP-AROUND PRACTICE

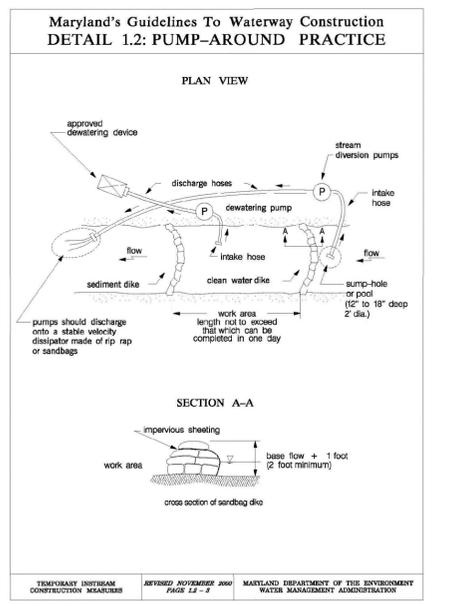
DESCRIPTION
 THE WORK SHOULD CONSIST OF INSTALLING A TEMPORARY PUMP AROUND AND SUPPORTING MEASURES TO DIVERT FLOW AROUND IN-STREAM CONSTRUCTION SITES.

IMPLEMENTATION SEQUENCE
 THIS IS CLASSIFIED AS A USE I-P WATERSHED, WHICH PROHIBITS ANY STREAM WORK DURING THE PERIOD OF MARCH 1ST THROUGH JUNE 15TH, INCLUSIVE DURING ANY YEAR. SEDIMENT CONTROL MEASURES, PUMP-AROUND PRACTICES, AND ASSOCIATED CHANNEL AND BANK CONSTRUCTION SHOULD BE COMPLETED IN THE FOLLOWING SEQUENCE (REFER TO DETAIL 1.2):

- CONSTRUCTION ACTIVITIES INCLUDING THE INSTALLATION OF EROSION AND SEDIMENT CONTROL MEASURES SHOULD NOT BEGIN UNTIL ALL NECESSARY EASEMENTS AND/OR RIGHT-OF-WAYS HAVE BEEN ACQUIRED. ALL EXISTING UTILITIES SHOULD BE MARKED IN THE FIELD PRIOR TO CONSTRUCTION. THE CONTRACTOR IS RESPONSIBLE FOR ANY DAMAGE TO EXISTING UTILITIES THAT MAY RESULT FROM CONSTRUCTION AND SHOULD REPAIR THE DAMAGE AT HIS/HER OWN EXPENSE TO THE COUNTY'S OR UTILITY COMPANY'S SATISFACTION.
- THE CONTRACTOR SHOULD NOTIFY THE MONTGOMERY COUNTY DEPARTMENT OF PERMITTING SERVICES INSPECTOR AT LEAST 5 DAYS BEFORE BEGINNING CONSTRUCTION. ADDITIONALLY, THE CONTRACTOR SHOULD INFORM THE PROVIDER OF LOCAL UTILITIES A MINIMUM OF 48 HOURS BEFORE STARTING CONSTRUCTION.
- A PRE-CONSTRUCTION MEETING MUST BE CONDUCTED ON-SITE WITH THE MONTGOMERY COUNTY DEPARTMENT OF PERMITTING SERVICES SEDIMENT CONTROL INSPECTOR, THE MNCPPC, PLANNING DEPARTMENT, PLANS ENFORCEMENT INSPECTOR, THE OWNERS REPRESENTATIVE, AND THE SITE ENGINEER TO REVIEW LIMITS OF DISTURBANCE, EROSION AND SEDIMENT CONTROL REQUIREMENTS, AND THE SEQUENCE OF CONSTRUCTION. THE CONTRACTOR SHOULD STAKE OUT ALL LIMITS OF DISTURBANCE PRIOR TO THE PRE-CONSTRUCTION MEETING SO THEY MAY BE REVIEWED. THE PARTICIPANTS WILL ALSO DESIGNATE THE CONTRACTOR'S STAGING AREAS AND FLAG ALL TREES WITHIN THE LIMIT OF DISTURBANCE WHICH WILL BE REMOVED FOR CONSTRUCTION ACCESS. TREES SHOULD NOT BE REMOVED WITHIN THE LIMIT OF DISTURBANCE WITHOUT APPROVAL FROM MNCPPC.

- CONSTRUCTION SHOULD NOT BEGIN UNTIL ALL SEDIMENT AND EROSION CONTROL MEASURES HAVE BEEN INSTALLED AND APPROVED BY THE ENGINEER AND THE DPS SEDIMENT CONTROL INSPECTOR. THE CONTRACTOR SHOULD STAY WITHIN THE LIMITS OF THE DISTURBANCE AS SHOWN ON THE PLANS AND MINIMIZE DISTURBANCE WITHIN THE WORK AREA WHENEVER POSSIBLE.
- UPON INSTALLATION OF ALL SEDIMENT CONTROL MEASURES AND APPROVAL BY THE DPS SEDIMENT CONTROL INSPECTOR, THE CONTRACTOR SHOULD BEGIN WORK AT THE UPSTREAM SECTION AND PROCEED DOWNSTREAM BEGINNING WITH THE ESTABLISHMENT OF STABILIZED CONSTRUCTION ENTRANCES. IN SOME CASES, WORK MAY BEGIN DOWNSTREAM IF APPROPRIATE. THE SEQUENCE OF CONSTRUCTION MUST BE FOLLOWED UNLESS THE CONTRACTOR GETS WRITTEN APPROVAL FOR DEVIATIONS FROM DPS. THE CONTRACTOR SHOULD ONLY BEGIN WORK IN AN AREA WHICH CAN BE COMPLETED BY THE END OF THE DAY INCLUDING GRADING ADJACENT TO THE CHANNEL. AT THE END OF EACH WORK DAY, THE WORK AREA MUST BE STABILIZED. WORK SHOULD NOT BE CONDUCTED IN THE CHANNEL DURING RAIN EVENTS.
- SANDBAG DIKES SHOULD BE SITUATED AT THE UPSTREAM AND DOWNSTREAM ENDS OF THE WORK AREA AS SHOWN ON THE PLANS, AND STREAM FLOW SHOULD BE PUMPED AROUND THE WORK AREA. THE PUMP SHOULD DISCHARGE ONTO A STABLE VELOCITY DISSIPATER MADE OF RIPRAP OR SANDBAGS.
- WATER FROM THE WORK AREA SHOULD BE PUMPED TO A SEDIMENT FILTERING MEASURE SUCH AS A DEWATERING BASIN, SEDIMENT BAG, OR OTHER APPROVED SOURCE. THE MEASURE SHOULD BE LOCATED SUCH THAT THE WATER DRAINS BACK INTO THE CHANNEL BELOW THE DOWNSTREAM SANDBAG DIKE.
- TRAVERSING A CHANNEL REACH WITH EQUIPMENT WITHIN THE WORK AREA WHERE NO WORK IS PROPOSED SHOULD BE AVOIDED. IF EQUIPMENT HAS TO TRAVERSE SUCH A REACH FOR ACCESS TO ANOTHER AREA, THEN TIMBER MATS OR SIMILAR MEASURES SHOULD BE USED TO MINIMIZE DISTURBANCE TO THE CHANNEL. TEMPORARY STREAM CROSSINGS SHOULD BE USED ONLY WHEN NECESSARY AND ONLY WHERE NOTED ON THE PLANS OR SPECIFIED. (SEE SECTION 4, STREAM CROSSINGS, MARYLAND GUIDELINES TO WATERWAY CONSTRUCTION).

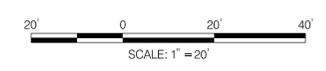
- ALL STREAM RESTORATION MEASURES SHOULD BE INSTALLED AS INDICATED BY THE PLANS AND ALL BANKS GRADED IN ACCORDANCE WITH THE GRADING PLANS AND TYPICAL CROSS-SECTIONS. ALL GRADING MUST BE STABILIZED AT THE END OF EACH DAY WITH SEED AND MULCH OR SEED AND MATTING AS SPECIFIED ON THE PLANS.
- IF DIKES AREA ARE USED: AFTER AN AREA IS COMPLETED AND STABILIZED, THE CLEAN WATER DIKE SHOULD BE REMOVED. AFTER THE FIRST SEDIMENT FLUSH, A NEW CLEAN WATER DIKE SHOULD BE ESTABLISHED UPSTREAM FROM THE OLD SEDIMENT DIKE. FINALLY, UPON ESTABLISHMENT OF A NEW SEDIMENT DIKE BELOW THE OLD ONE, THE OLD SEDIMENT DIKE SHOULD BE REMOVED.
- A PUMP AROUND MUST BE INSTALLED ON ANY TRIBUTARY OR STORM DRAIN OUTFALL WHICH CONTRIBUTES BASEFLOW TO THE WORK AREA. THIS SHOULD BE ACCOMPLISHED BY LOCATING A SANDBAG DIKE AT THE DOWNSTREAM END OF THE TRIBUTARY OR STORM DRAIN OUTFALL AND PUMPING THE STREAM FLOW AROUND THE WORK AREA. THIS WATER SHOULD DISCHARGE ONTO THE SAME VELOCITY DISSIPATER USED FOR THE MAIN STEM PUMP AROUND.
- IF A TRIBUTARY IS TO BE RESTORED, CONSTRUCTION SHOULD TAKE PLACE ON THE TRIBUTARY BEFORE WORK ON THE MAIN STEM REACHES THE TRIBUTARY CONFLUENCE. CONSTRUCTION IN THE TRIBUTARY, INCLUDING PUMP AROUND PRACTICES, SHOULD FOLLOW THE SAME SEQUENCE AS FOR THE MAIN STEM OF THE RIVER OR STREAM. WHEN CONSTRUCTION ON THE TRIBUTARY IS COMPLETED, WORK ON THE MAIN STEM SHOULD RESUME. WATER FROM THE TRIBUTARY SHOULD CONTINUE TO BE PUMPED AROUND THE WORK AREA IN THE MAIN STEM.
- THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING ACCESS TO AND MAINTAINING ALL EROSION AND SEDIMENT CONTROL DEVICES UNTIL THE SEDIMENT CONTROL INSPECTOR APPROVES THEIR REMOVAL.
- AFTER CONSTRUCTION, ALL DISTURBED AREAS SHOULD BE REGRADED AND REVEGETATED AS PER THE PLANTING PLAN.



- NOTES:
- STORM DRAIN TO BE CONSTRUCTED BY C.I.P. PROJECT 508000 BEFORE THIS PROJECT.
 - NO DISTURBED AREA SHALL BE LEFT UNSTABILIZED OVERNIGHT.
 - FOR FOREST CONSERVATION MEASURES, REFER TO LANDSCAPING PLANS.

STABILIZED CONSTRUCTION ENTRANCE (SCE)		
ID NO.	QUANTITY	STATION
SCE 1.1	1 EA	STA. 195+62, LT

SANDBAGS (SB)				
ID NO.	QUANTITY	STATION	HEIGHT	TOP ELEV.
SB 1.1	100 EA	STA. 199+20, RT	48"	638 FT
SB 1.2	70 EA	STA. 195+15, RT	48"	639 FT
SB 1.3	70 EA	STA. 197+60, RT	48"	633 FT



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

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 Chief, Division of Engineering Services _____ Date _____

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MERCADO CONSULTANTS, INC.

LEGEND

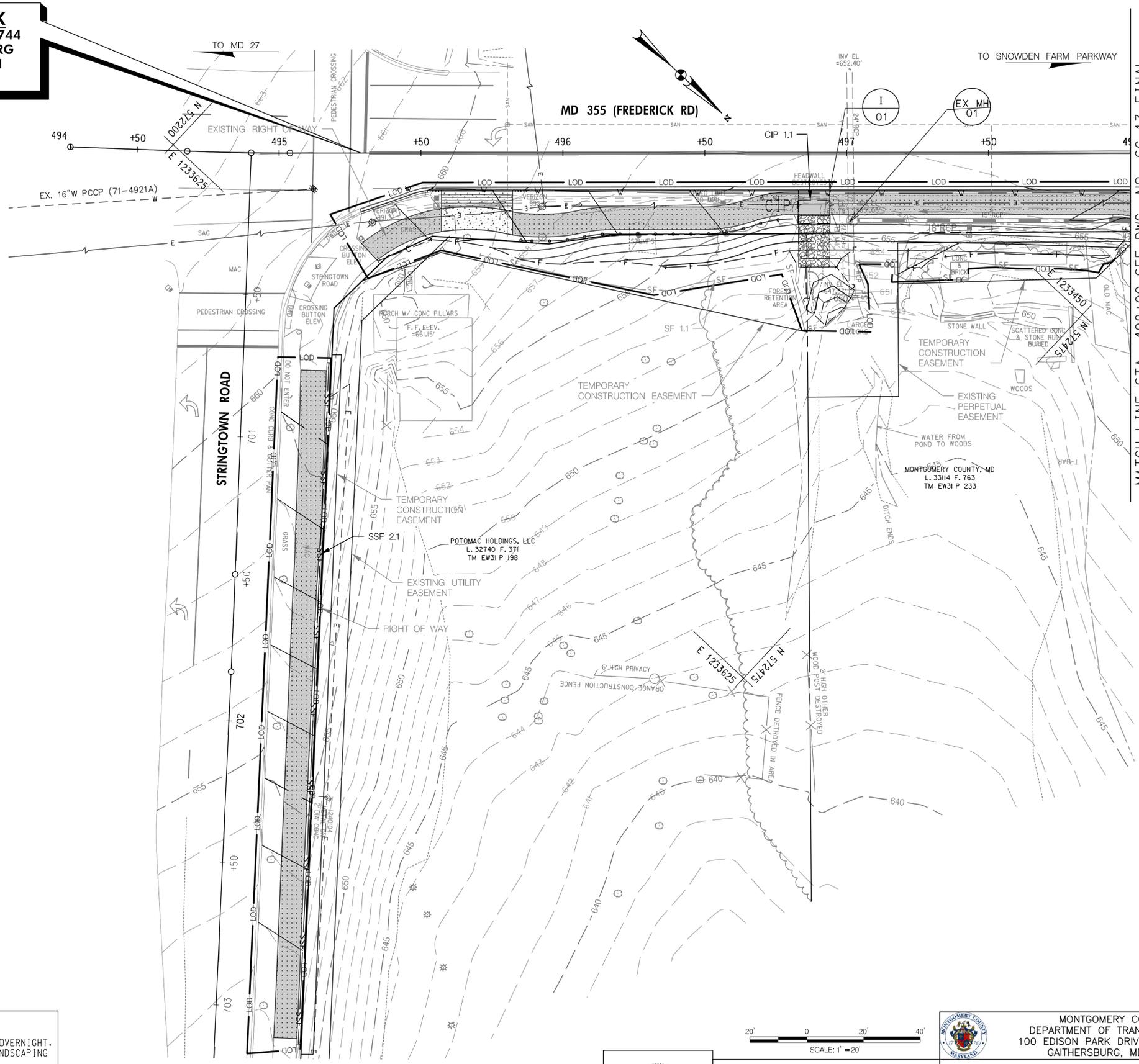
LIMIT OF DISTURBANCE	LOD	STABILIZED CONSTRUCTION ENTRANCE	SCE
FILTER BAG PHASE 1	FB	SANDBAGS PHASE 1	SB
PUMP PHASE 1	P	SILT FENCE PHASE 1	SF

EROSION AND SEDIMENT CONTROL PLANS PHASE 1 SC- 11 OF 19
MD 355 - CLARKSBURG
SHARED USE PATH
STA. 194+50 TO STA. 200+00

Project No.: C.I.P. PR. # 501744 SHEET 39 of 97
 09/2022

DPS FILE NO. SC0037 OF SC0047

LIMIT OF WORK
 C.I.P. PROJECT NO. 501744
 MD 355 - CLARKSBURG
 SHARED USE PATH
 STA. 495+29



MATCH LINE STA. 498+00 SEE DWG. NO. SC-13 FINAL

NOTES:
 1. NO DISTURBED AREA SHALL BE LEFT UNSTABILIZED OVERNIGHT.
 2. FOR FOREST CONSERVATION MEASURES, REFER TO LANDSCAPING PLANS.

INLET PROTECTION (IP)			
ID NO.	STATION	QUANTITY	DRAINAGE AREA (AC)
CIP 1.1	STA. 496+88, RT	1 EA	0.02

SUPER SILT FENCE (SSF)			
ID NO.	LENGTH (LF)	STATION	THREAT
SSF 2.1	240	STA. 495+07 TO 495+18, RT	



LEGEND

LIMIT OF DISTURBANCE	— LOD —	CURB INLET PROTECTION PHASE 2	☐ CIP
SILT FENCE PHASE 1	— SF —	SAME DAY STABILIZATION	⊞
SUPER SILT FENCE PHASE 2	— SSF —		

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: 38931 EXPIRATION DATE: 12-22-2023



DATUM: NAD 83/91 HORIZONTAL
 NAVD 88 VERTICAL

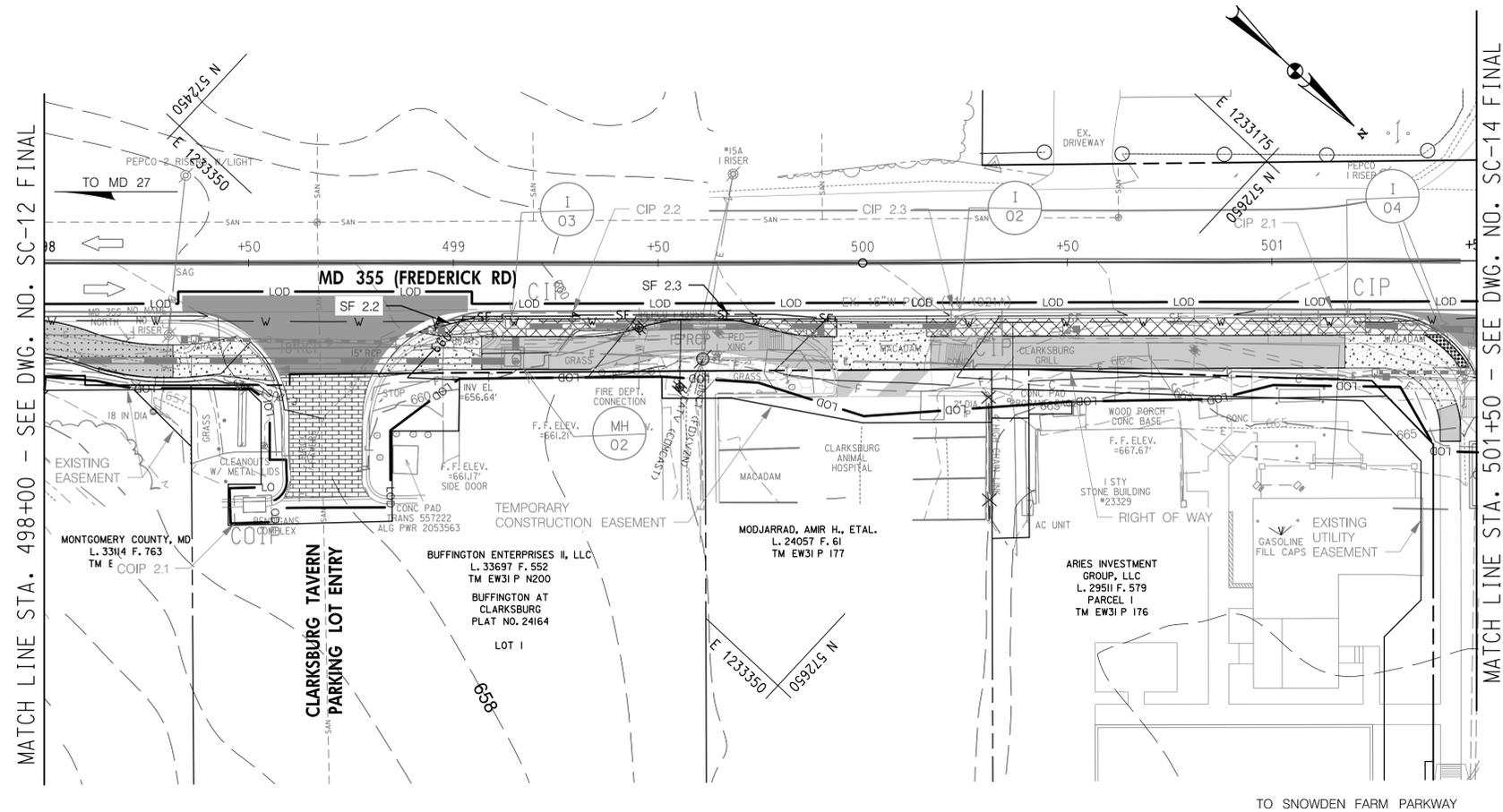
NO.	REVISION	DATE	BY

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

RECOMMENDED FOR APPROVAL
 FOR SIGNATURES SEE TITLE SHEET
 Chief, Design Section
 APPROVED
 FOR SIGNATURES SEE TITLE SHEET
 Chief, Division of Engineering Services

Designed by : MWM Drawn by : NL Checked by : MWM

**EROSION AND SEDIMENT CONTROL
 PLANS PHASE 2 SC- 12 OF 19
 MD 355 - CLARKSBURG
 SHARED USE PATH
 STA. 495+29 TO STA. 498+00**

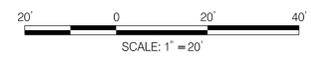


MATCH LINE STA. 498+00 - SEE DWG. NO. SC-12 FINAL

MATCH LINE STA. 501+50 - SEE DWG. NO. SC-14 FINAL

SILT FENCE (SF)			
SF 2.2	17	LF	STA. 498+95 TO 499+12, RT
SF 2.3	64	LF	STA. 499+29 TO 499+90, RT

NOTES:
 1. NO DISTURBED AREA SHALL BE LEFT UNSTABILIZED OVERNIGHT.
 2. FOR FOREST CONSERVATION MEASURES, REFER TO LANDSCAPING PLANS.



LEGEND

LIMIT OF DISTURBANCE	— LOD —	CURB INLET PROTECTION PHASE 1	□ CIP
SILT FENCE PHASE 1	— SF —	COMBINATION INLET PROTECTION PHASE 1	□ COIP
SILT FENCE PHASE 2	— SF —	SAME DAY STABILIZATION	□

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 NAVD 88 VERTICAL

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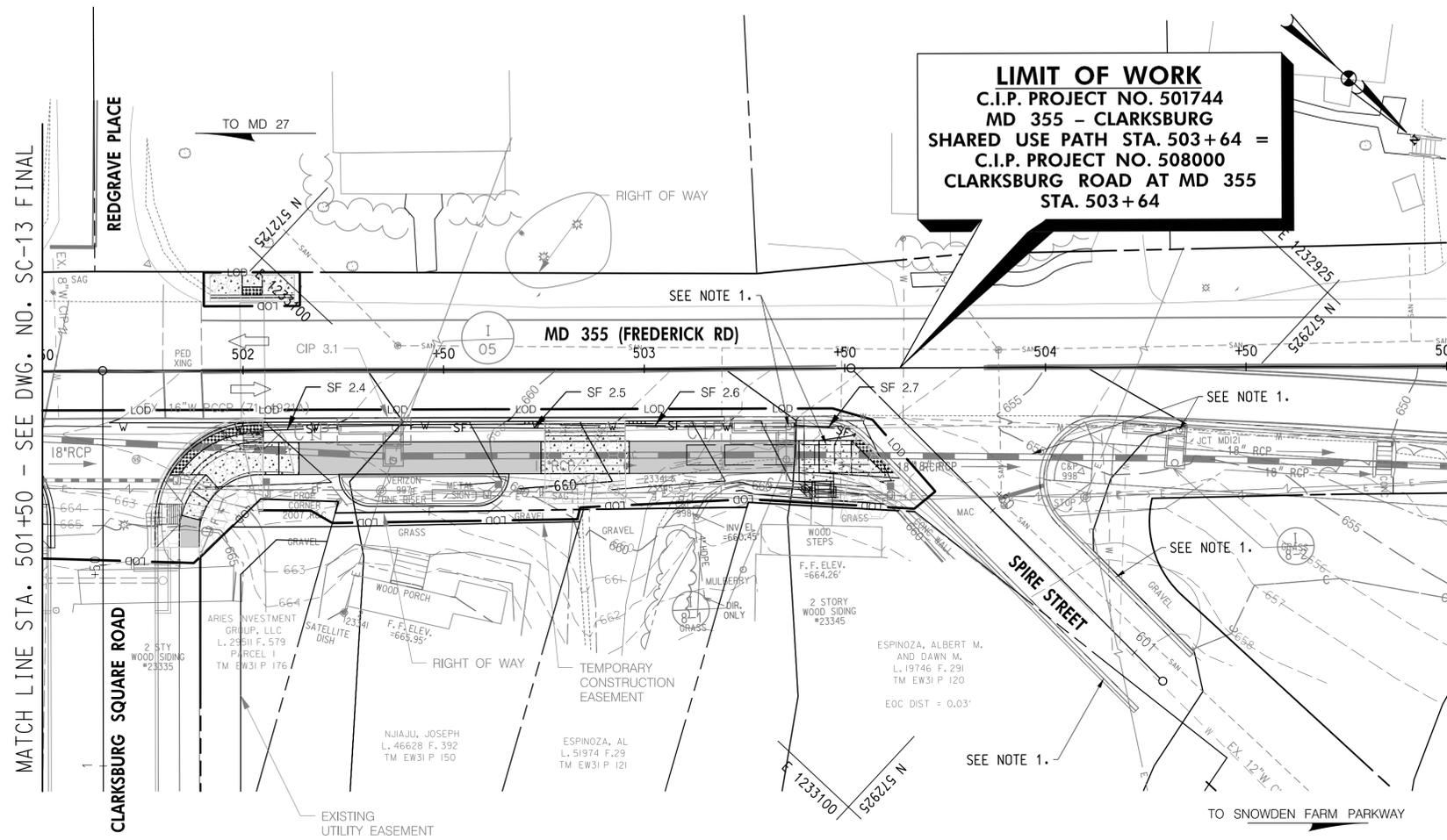
MONTGOMERY COUNTY
 DEPARTMENT OF TRANSPORTATION
 100 EDISON PARK DRIVE, 4TH FLOOR
 GAITHERSBURG, MD 20878

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Designed by : MWM Drawn by : NL Checked by : MWM

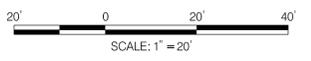
**EROSION AND SEDIMENT CONTROL
 PLANS PHASE 2 SC- 13 OF 19
 MD 355 - CLARKSBURG
 SHARED USE PATH
 STA. 498+00 TO STA. 501+50**



LIMIT OF WORK
 C.I.P. PROJECT NO. 501744
 MD 355 - CLARKSBURG
 SHARED USE PATH STA. 503+64 =
 C.I.P. PROJECT NO. 508000
 CLARKSBURG ROAD AT MD 355
 STA. 503+64

SILT FENCE (SF)			
SF 2.4	18	LF	STA. 502+05 TO 502+23, RT
SF 2.5	33	LF	STA. 502+42 TO 502+75, RT
SF 2.6	27	LF	STA. 502+95 TO 503+22, RT
SF 2.7	15	LF	STA. 503+32 TO 503+52, RT

- NOTES:**
- CURB & GUTTER, SHARED USE PATH, TEMPORARY CURB RAMP, INLETS AND STORM DRAIN TO BE CONSTRUCTED BY C.I.P. PROJECT 508000 BEFORE THIS PROJECT.
 - NO DISTURBED AREA SHALL BE LEFT UNSTABILIZED OVERNIGHT.
 - FOR FOREST CONSERVATION MEASURES, REFER TO LANDSCAPING PLANS.



LEGEND

LIMIT OF DISTURBANCE	— LOD —
SILT FENCE PHASE 2	— SF —
CURB INLET PROTECTION PHASE 1	□ CIP
SAME DAY STABILIZATION	▨

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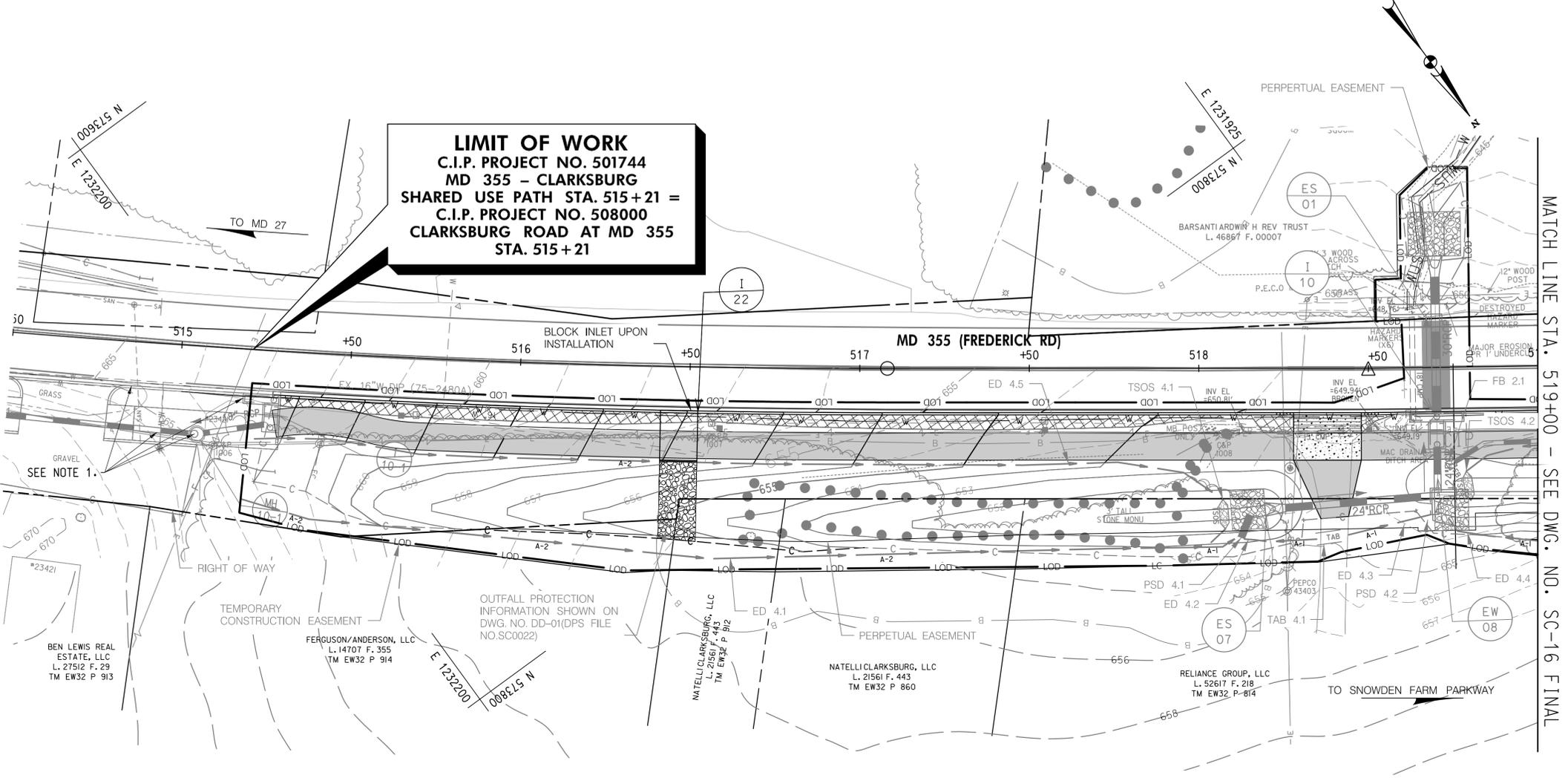
MONTGOMERY COUNTY
 DEPARTMENT OF TRANSPORTATION
 100 EDISON PARK DRIVE, 4TH FLOOR
 GAITHERSBURG, MD 20878

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 Chief, Division of Engineering Services

Designed by : MWM Drawn by : NL Checked by : MWM

**EROSION AND SEDIMENT CONTROL
 PLANS PHASE 2 SC- 14 OF 19
 MD 355 - CLARKSBURG
 SHARED USE PATH
 STA. 501+50 TO STA. 505+00**



LIMIT OF WORK
 C.I.P. PROJECT NO. 501744
 MD 355 - CLARKSBURG
 SHARED USE PATH STA. 515+21 =
 C.I.P. PROJECT NO. 508000
 CLARKSBURG ROAD AT MD 355
 STA. 515+21

MATCH LINE STA. 519+00 - SEE DWG. NO. SC-16 FINAL

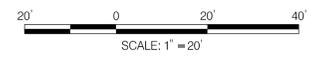
- NOTES:**
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 LICENSE NO.: 38931 EXPIRATION DATE: 12-22-2023



LEGEND

— LOD —	TEMPORARY ASPHALT BERM PHASE 1	TAB
— CIP —	TEMPORARY STONE OUTLET STRUCTURE PHASE 1	TSOS
— EARTH DIKE PHASE 1	— FILTER BAG PHASE 1	FB
— PIPE SLOPE DRAIN PHASE 1		



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

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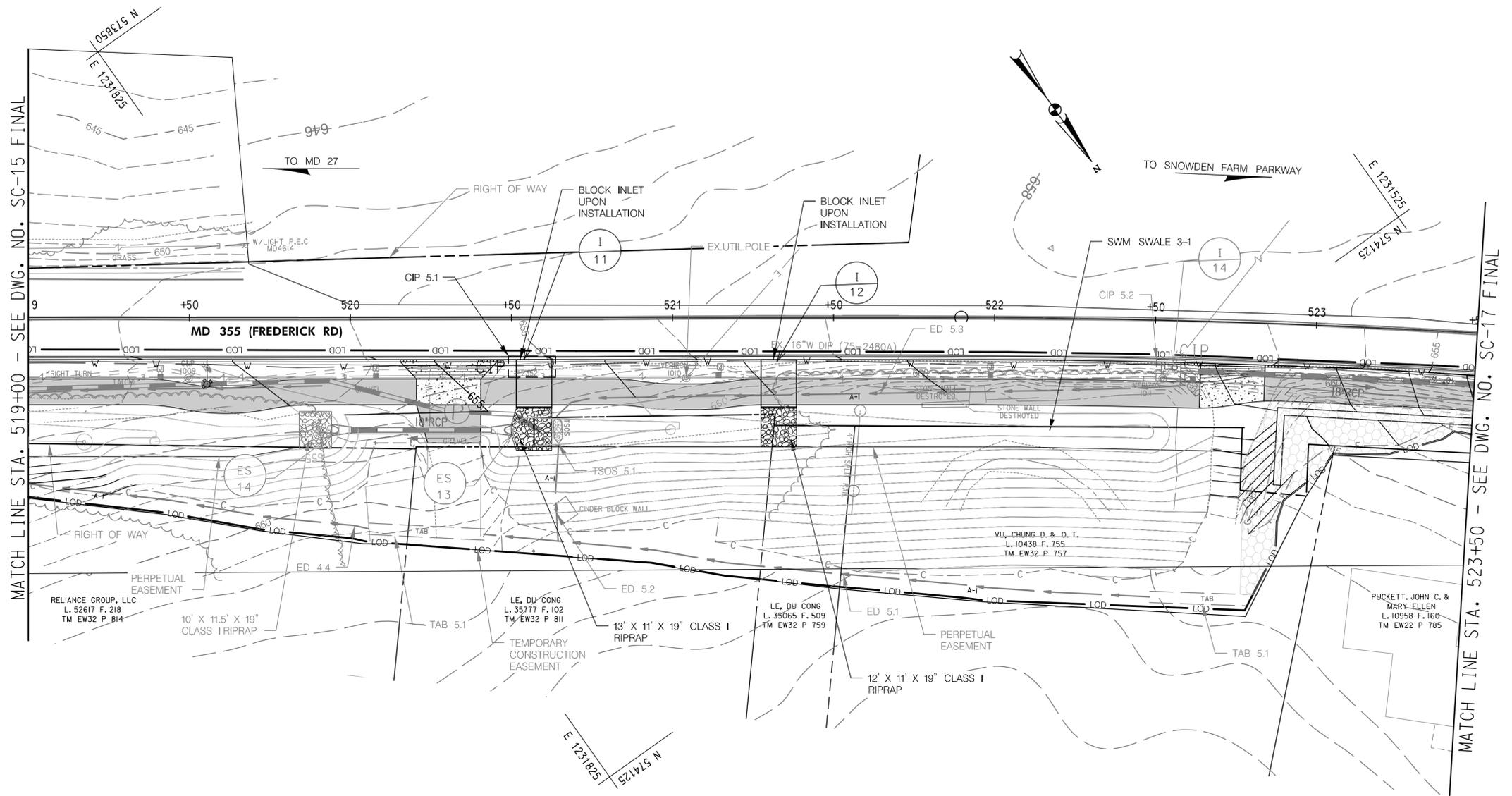
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**EROSION AND SEDIMENT CONTROL
 PLANS PHASE 2 SC- 15 OF 19
 MD 355 - CLARKSBURG
 SHARED USE PATH
 STA. 514+50 TO STA. 519+00**

Project No. : C.I.P. PR. # 501744 SHEET 43 of 97

09/2022

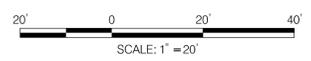


INLET PROTECTION (IP)			
ID NO.	STATION	QUANTITY	DRAINAGE AREA (AC)
CIP 5.1	STA. 520+52, RT	1 EA	0.34

NOTES:
 1. NO DISTURBED AREA SHALL BE LEFT UNSTABILIZED OVERNIGHT.
 2. FOR FOREST CONSERVATION MEASURES, REFER TO LANDSCAPING PLANS.



LEGEND			
LIMIT OF DISTURBANCE	TEMPORARY ASPHALT BERM PHASE 1	CURB INLET PROTECTION PHASE 1	CURB INLET PROTECTION PHASE 2
EARTH DIKE PHASE 1	SAME DAY STABILIZATION	CURB INLET PROTECTION PHASE 1	CURB INLET PROTECTION PHASE 2
CURB INLET PROTECTION PHASE 1	CURB INLET PROTECTION PHASE 2	CURB INLET PROTECTION PHASE 1	CURB INLET PROTECTION PHASE 2
TEMPORARY STONE OUTLET STRUCTURE PHASE 1	CURB INLET PROTECTION PHASE 2	CURB INLET PROTECTION PHASE 1	CURB INLET PROTECTION PHASE 2
CURB INLET PROTECTION PHASE 1	CURB INLET PROTECTION PHASE 2	CURB INLET PROTECTION PHASE 1	CURB INLET PROTECTION PHASE 2



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

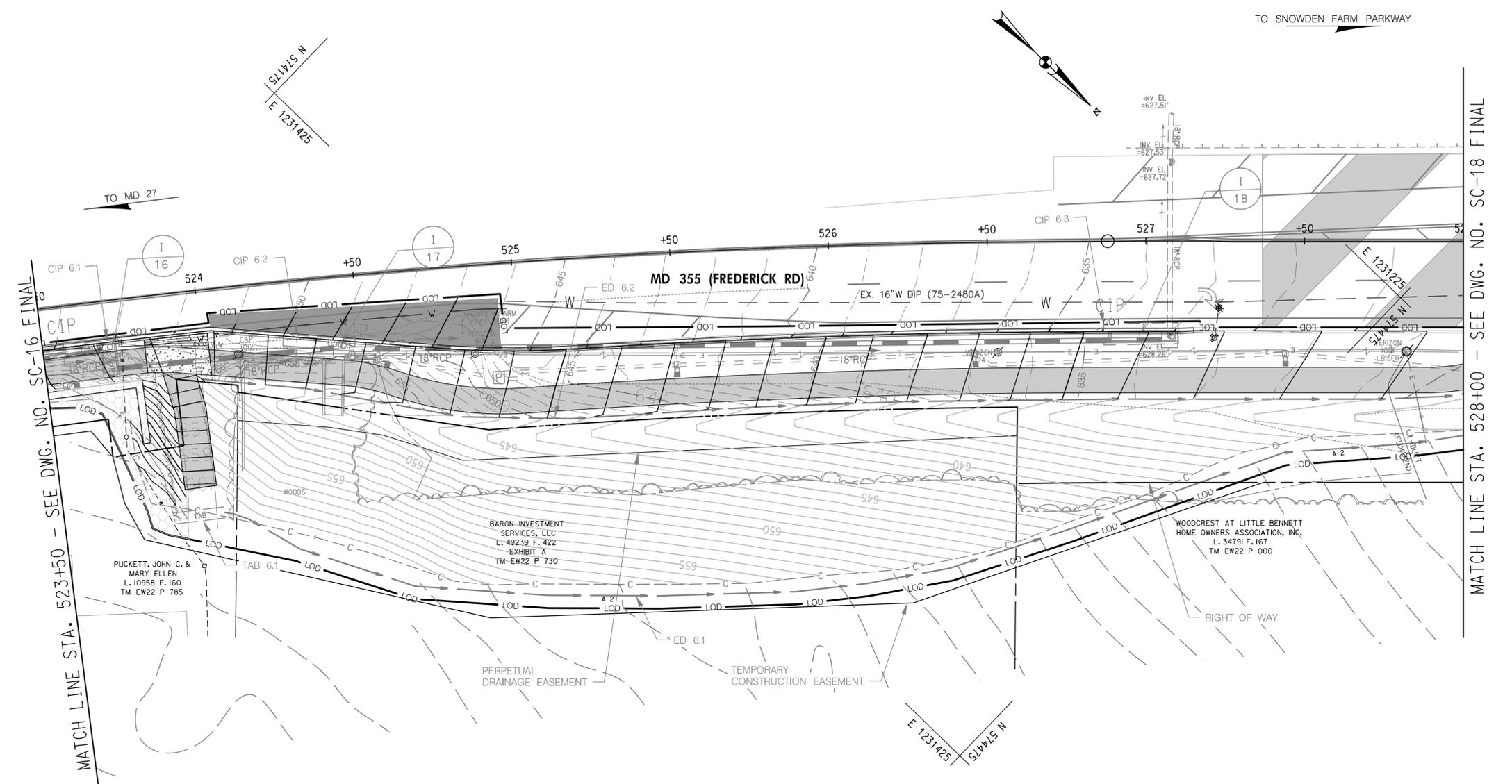
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 Chief, Division of Engineering Services

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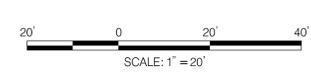
**EROSION AND SEDIMENT CONTROL
 PLANS PHASE 2 SC- 16 OF 19
 MD 355 - CLARKSBURG
 SHARED USE PATH
 STA. 519+00 TO STA. 523+50**



NOTES:
 1. NO DISTURBED AREA SHALL BE LEFT UNSTABILIZED OVERNIGHT.
 2. FOR FOREST CONSERVATION MEASURES, REFER TO LANDSCAPING PLANS.



LEGEND	
— LOD —	EARTH DIKE PHASE 1
— A-1 —	
— TAB —	TEMPORARY ASPHALT BERM PHASE 1
— CIP —	SAME DAY STABILIZATION
— PERPETUAL DRAINAGE EASEMENT —	
— TEMPORARY CONSTRUCTION EASEMENT —	



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

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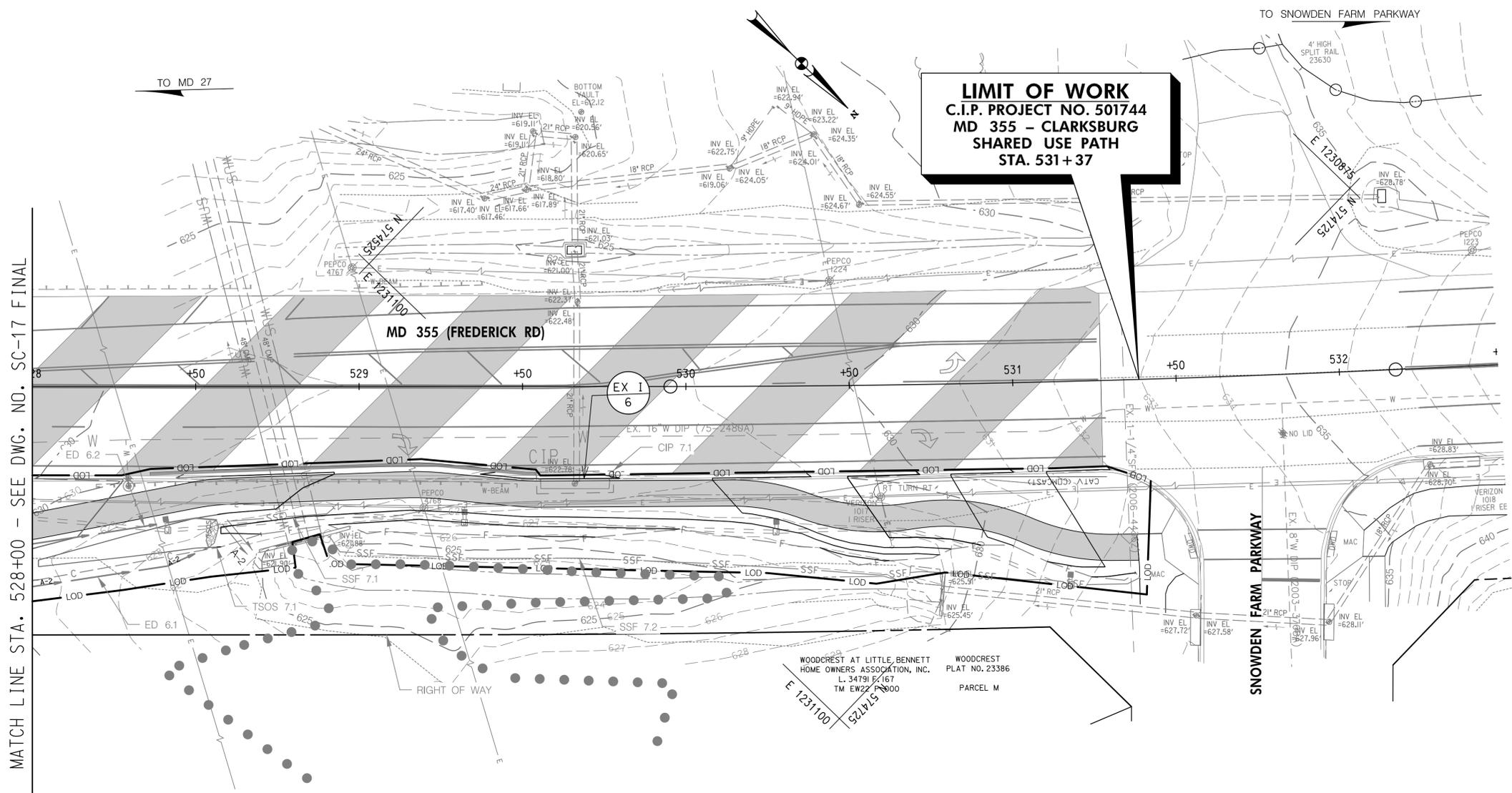
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 LICENSE NO: 38931 EXPIRATION DATE: 12-22-2023



**EROSION AND SEDIMENT CONTROL
 PLANS PHASE 2 SC-17 OF 19
 MD 355 - CLARKSBURG
 SHARED USE PATH
 STA. 523+50 TO STA. 528+00**

Project No. : C.I.P. PR. # 501744 SHEET 45 of 97

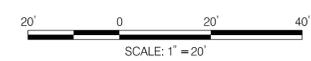


MATCH LINE STA. 528+00 - SEE DWG. NO. SC-17 FINAL

- NOTES:**
1. NO DISTURBED AREA SHALL BE LEFT UNSTABILIZED OVERNIGHT.
 2. FOR FOREST CONSERVATION MEASURES, REFER TO LANDSCAPING PLANS.



LEGEND	
— LOD —	TEMPORARY STONE OUTLET STRUCTURE PHASE 1
— SSF —	EARTH DIKE PHASE 1
□ CIP	TEMPORARY SWALE PHASE 1
○ TSOS	○ A-2
○ A-2	○ A-2



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

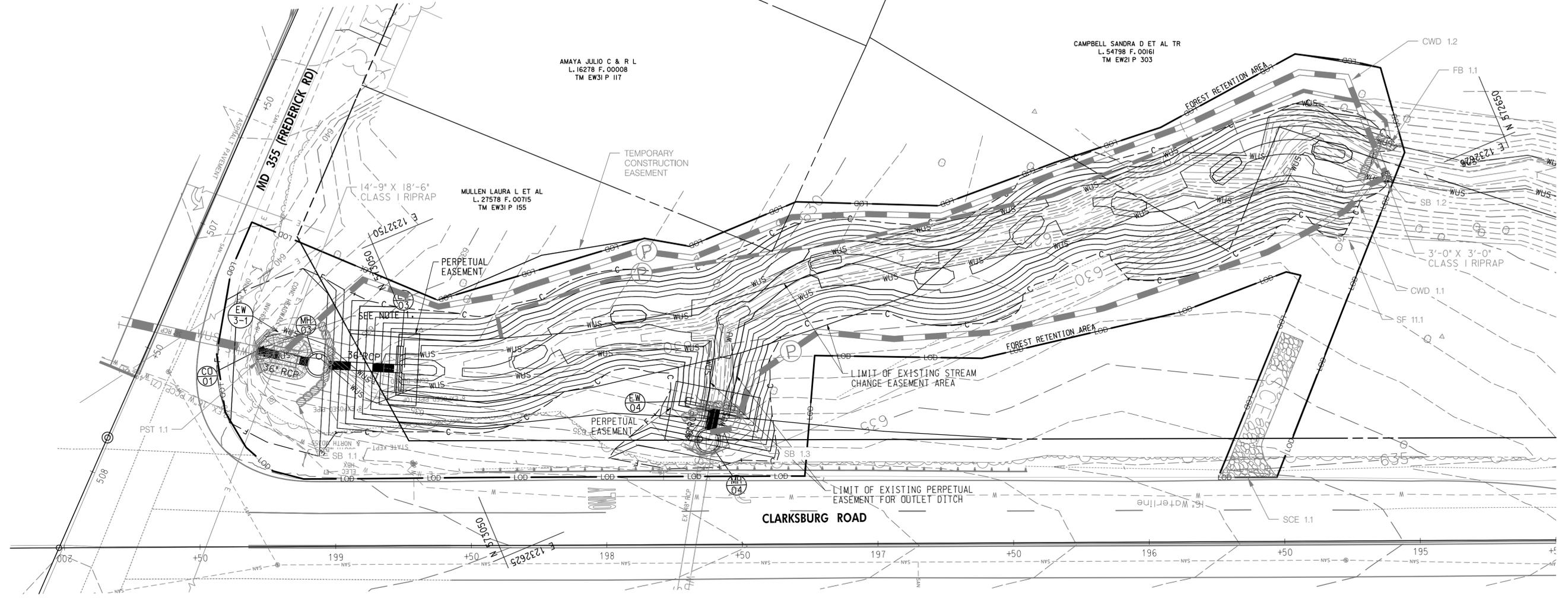
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 Chief, Design Section
 APPROVED
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 Chief, Division of Engineering Services

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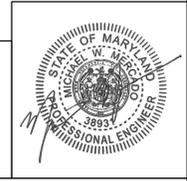


**EROSION AND SEDIMENT CONTROL
 PLANS PHASE 2 SC-18 OF 19
 MD 355 - CLARKSBURG
 SHARED USE PATH
 STA. 528+00 TO STA. 531+37**



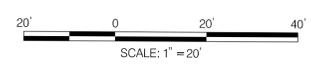
- NOTES:
1. STORM DRAIN TO BE CONSTRUCTED BY C.I.P. PROJECT 508000 BEFORE THIS PROJECT.
 2. NO DISTURBED AREA SHALL BE LEFT UNSTABILIZED OVERNIGHT.
 3. FOR FOREST CONSERVATION MEASURES, REFER TO LANDSCAPING PLANS.

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LEGEND

LIMIT OF DISTURBANCE	— LOD —	STABILIZED CONSTRUCTION ENTRANCE PHASE 1	
SANDBAGS PHASE 1		FILTER BAG PHASE 1	
PUMP PHASE 1	(P)	SILT FENCE PHASE 1	— SF —



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

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

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 Chief, Division of Engineering Services _____ Date _____
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**EROSION AND SEDIMENT CONTROL
 PLANS PHASE 2 SC-19 OF 19
 MD 355 - CLARKSBURG
 SHARED USE PATH
 STA. 194+50 TO STA. 200+00**

Project No. : C.I.P. PR. # 501744 SHEET 47 of 97

MAINTENANCE OF TRAFFIC NOTES:

1. THE TEMPORARY TRAFFIC CONTROL PLANS HAVE BEEN PREPARED IN ACCORDANCE WITH THE MARYLAND DEPARTMENT OF TRANSPORTATION STATE HIGHWAY ADMINISTRATION (MDOT SHA) BOOK OF STANDARDS FOR HIGHWAY AND INCIDENTAL STRUCTURES, THE LATEST EDITION OF THE MARYLAND MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MD-MUTCD), AND THE MDOT SHA DETAILS FOR TEMPORARY TRAFFIC CONTROL TYPICAL APPLICATIONS. THE SHADED AREAS ON THE MAINTENANCE OF TRAFFIC PLANS WILL REPRESENT THE AREA TO BE CONSTRUCTED.
2. THE CONTRACTOR SHALL BE RESPONSIBLE TO ENSURE THAT SAFETY OF THE PUBLIC AND THE WORK CREW IS MAINTAINED AT ALL TIMES THROUGHOUT THE TERM OF THE CONTRACT. THE MOTORIST SHALL BE GUIDED IN A CLEAR AND POSITIVE MANNER WHILE APPROACHING AND PASSING THROUGH CONSTRUCTION WORK AND EQUIPMENT AREAS.
3. THE CONTRACTOR SHALL INSTALL (PRIOR TO BEGINNING CONSTRUCTION) AND MAINTAIN (DURING CONSTRUCTION) ALL NECESSARY TRAFFIC CONTROL DEVICES DURING HOURS OF CONSTRUCTION AND AT ALL OTHER TIMES IN ACCORDANCE WITH THE METHODS OF TRAFFIC CONTROL SHOWN ON THESE DRAWINGS, THE SPECIFICATIONS, AND THE MD MUTCD. THE WORK HOURS ARE SUBJECT TO COMPLIANCE WITH MDOT SHA SPECIFICATIONS.
4. WORK WITHIN LANE CLOSURE FLAGGING OPERATIONS ALONG 2 LANE SECTIONS SHALL BE PERFORMED DURING DAY-TIME HOURS FROM 9 AM TO 5 PM. REFER TO THE CONTRACT SPECIAL PROVISIONS FOR ALL LANE CLOSURE RESTRICTIONS AND TIMES.
5. THE CONTRACTOR AND INSPECTORS SHALL NOT PARK VEHICLES OR WORK BEHIND DRUMS WITHIN THE TAPER OR BUFFER AREAS.
6. WORK SHALL BE PERFORMED ON A BLOCK-BY-BLOCK BASIS OR 1000 FOOT MAXIMUM SEGMENTS. THE MAINTENANCE OF TRAFFIC (MOT) PLANS ARE INTENDED TO CONVEY A TYPICAL MOT LAYOUT FOR EACH ROADWAY SECTION. ALL CHANNELIZATION DEVICES AND FLAGGERS SHALL BE RE-POSITIONED ACCORDINGLY AS CONSTRUCTION PROGRESSES.
7. CONTRACTOR SHALL MAINTAIN A MINIMUM OF 11' TRAVEL LANES. LOCATIONS OF INDIVIDUAL CHANNELIZING DRUMS AS SHOWN ON THE PLANS ARE APPROXIMATE AND ARE SHOWN ONLY TO CONVEY THEIR PLACEMENT RELATIVE TO WORK ZONES AND ACTIVE TRAFFIC LANES.
8. DRUMS MUST BE REMOVED IN THE TRAVEL LANE BY THE END OF EACH CONSTRUCTION WORK PERIOD.
9. STAGING OR STOCKPILING OF MATERIAL ON-SITE SHALL BE PROHIBITED.
10. ANY DAMAGE TO EXISTING STRUCTURES, SIGNS, POSTS OR HARDWARE AS A RESULT OF OPERATIONS DURING CONSTRUCTION SHALL BE REPAIRED AND/OR REPLACED AT NO ADDITIONAL COST TO THE STATE.
11. TEMPORARY SIGNS SHALL BE INSTALLED IN ACCORDANCE WITH MDOT SHA STD NO 104.01-17A, 104.01-17B, 104.01-17C AND MDOT SHA SPECIFICATIONS NOS 812.01 AND 812.04. ALL SIGNS THAT ARE NOT APPLICABLE DUE TO TEMPORARY TRAFFIC CONTROL CONDITIONS SHALL BE RELOCATED WHEN NECESSARY, COMPLETELY COVERED WITH AN OPAQUE MATERIAL, OR REMOVED WITH APPROVAL FROM THE ENGINEER. ALL APPLICABLE SIGNS SHALL BE MAINTAINED DURING CONSTRUCTION UNLESS OTHERWISE SPECIFIED BY THE ENGINEER OR AS NOTED IN THE CONTRACT DOCUMENTS. ALL SIGNS SHALL BE PROPERLY REDISPLAYED TO TRAFFIC AS SOON AS CONDITIONS WARRANT. ALL SIGN LOCATIONS MAY BE ADJUSTED TO FIT FIELD CONDITIONS AS APPROVED BY THE ENGINEER.
12. THE ENGINEER SHALL INSPECT THE MAINTENANCE OF TRAFFIC MATERIAL AND APPLICATION ON A ROUTINE BASIS. ALL DEFICIENCIES SHALL BE CORRECTED PROMPTLY UPON NOTICE BY THE ENGINEER.
13. ACCESS SHALL BE PROVIDED TO ALL EXISTING SIDE STREETS AND DRIVEWAYS AT ALL TIMES. A FLOATING FLAGGER SHALL BE USED AT IMPACTED ACCESS POINTS AS NEEDED UNLESS OTHERWISE APPROVED BY THE ENGINEER.
14. TRAFFIC SIGNALS SHALL BE MAINTAINED BY POLICE FORCES IF DAY-TIME FLAGGING OPERATIONS IMPACT THE OPERATIONS OF A SIGNAL.
15. ALL VEHICULAR AND PEDESTRIAN TEMPORARY TRAFFIC CONTROL ACTIVITIES SHALL ADHERE TO THE MARYLAND STATE HIGHWAY ADMINISTRATION'S (MSHA) BOOK OF STANDARDS FOR HIGHWAY, INCIDENTAL STRUCTURES AND TRAFFIC CONTROL APPLICATIONS.
16. CONSTRUCTION ACTIVITIES IMPACTING VEHICULAR TRAVEL ALONG MD 355 (FREDERICK ROAD) SHALL BE PERFORMED USING DAY-TIME STANDARD SHOULDER (AUXILIARY LANE) AND LANE CLOSURE FLAGGING OPERATIONS. REFER TO THE ALLOWABLE LANE CLOSURE SCHEDULE IN THE SPECIAL PROVISIONS FOR SPECIFIC ALLOWABLE WORKING DAYS AND TIMES.
17. EXISTING BUS STOP AND DRIVEWAY ACCESS SHALL BE MAINTAINED AT ALL TIMES. THE CONTRACTOR SHALL COORDINATE WITH MONTGOMERY COUNTY RIDE-ON TO DETERMINE POSSIBLE TEMPORARY PROVISIONS DURING CONSTRUCTION.
18. ACCESS TO EXISTING PEDESTRIAN FACILITIES SHALL BE MAINTAINED DURING CONSTRUCTION. ONLY ONE CORNER OF AN INTERSECTION AND ONE PEDESTRIAN CROSSING ACCESS MAY BE CLOSED AT A TIME, AND PERMANENT SIDEWALK CLOSURES SHOULD BE MINIMIZED.

SEQUENCE OF CONSTRUCTION

THE INTENTION OF THE SEQUENCE OF CONSTRUCTION IS FOR THE CONTRACTOR TO WORK SECTIONS AND AVOID CLOSING THE ROADWAY DOWN COMPLETELY. ONLY ONE OF THE ZONES INDICATED BELOW SHOULD BE UNDER CONSTRUCTION AT ANY GIVEN TIME, WITHOUT EXPRESS CONSENT OF THE ENGINEER AND THE COUNTY EROSION AND SEDIMENT CONTROL INSPECTOR'S APPROVAL. THERE ARE THREE (3) ANTICIPATED ZONES:

- ZONE 1 IS FROM STRINGTOWN ROAD TO SPIRE STREET
- ZONE 2 IS FROM STATION 515+21 TO STATION 522+50±
- ZONE 3 IS FROM STATION 522+50± TO SNOWDEN FARM PARKWAY

THE CONTRACTOR MAY REQUEST TO CONSTRUCT SMALLER SEGMENTS. THESE REQUESTS WILL REQUIRE APPROVAL FROM THE COUNTY PRIOR TO PROCEEDING.

SEQUENCE OF CONSTRUCTION FOR EACH ZONE TO PROCEED AS FOLLOWS:

PHASE 1

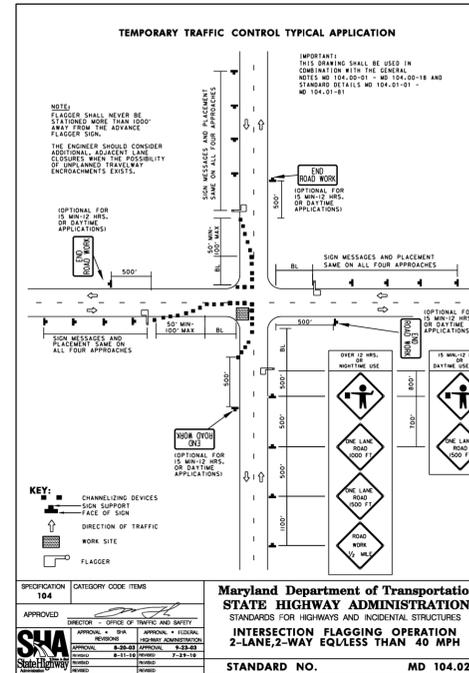
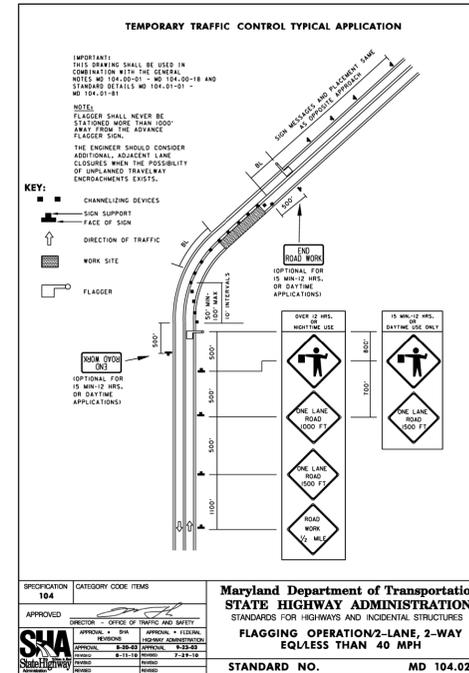
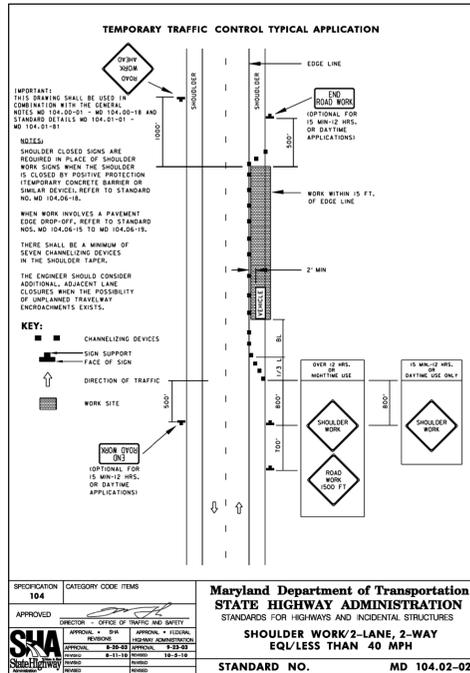
1. ESTABLISH THE LOD.
2. INSTALL SILT FENCE AND SUPER SILT FENCE AS SHOWN ON PLANS. INSTALL INLET PROTECTION.
3. INSTALL STORM DRAIN SYSTEM UNDER A 3-DAY NOAA DRY WEATHER FORECAST FROM DOWNSTREAM TO UPSTREAM AS SHOWN ON PLANS. BLOCK PIPE BETWEEN ES-13 AND ES-14. USE SAME DAY STABILIZATION (SDS) TO TREAT THE AREAS. AREAS OF SDS MUST BE STABILIZED AT THE END OF EACH WORK DAY. PLACE INLET PROTECTION DEVICES AS SHOWN ON PLANS ONCE STORM DRAIN SYSTEM IS ONLINE.
4. INSTALL EARTH DIKE, TEMPORARY ASPHALT BERMS, TEMPORARY STONE OUTLET STRUCTURE, PUMP AROUND DEVICE, FILTER BAG AND PIPE SLOPE DRAIN AS SHOWN ON PLANS.
5. PROVIDE INITIAL GRADING AS SHOWN ON PLANS.
6. INSTALL STABILIZED CONSTRUCTION ENTRANCE, SILT FENCE, SANDBAGS, PUMP AROUND DEVICE, PORTABLE SEDIMENT TANK, AND FILTER BAG AS SHOWN ON PLANS.

PHASE 2

1. ESTABLISH THE LOD.
2. INSTALL INLETS AS SHOWN ON PLANS. PLACE INLET PROTECTION AND BLOCK NECESSARY INLETS.
3. PERFORM STREAM RESTORATION CONSTRUCTION AS SHOWN ON PLANS.
4. CONSTRUCT SHARED USE PATH, RETAINING WALLS, AND PEDESTRIAN LIGHTING AS SHOWN ON PLANS. REMOVE PUMP AROUND DEVICE, NECESSARY EARTH DIKES, PRIOR TO INSTALLING PATHWAY, AND FINALIZE GRADING AS EACH UPSTREAM SECTION OF PATHWAY IS CONSTRUCTED.
5. WITH WRITTEN APPROVAL FROM THE REC, REMOVE THE REST OF EROSION AND SEDIMENT CONTROLS AND STABILIZE AREAS DISTURBED BY THEIR REMOVAL, AND UNBLOCK ALL REMAINING INLETS AND PIPES.

PROJECT WIDE SEQUENCE OF CONSTRUCTION ITEMS INCLUDE THE FOLLOWING:

1. THE CONTRACTOR MUST SUBMIT A DETAILED WORK PLAN WITH THE PROPOSED SEQUENCE OF CONSTRUCTION IN CONJUNCTION WITH THE PROJECT SCHEDULE. SUBMITTAL AND APPROVAL OF THIS PLAN WILL BE REQUIRED PRIOR TO THE START OF ANY WORK ON THE PROJECT. THE PLAN WILL NEED TO ADHERE TO ALL OF THE REQUIREMENTS, RESTRICTIONS, NOTES AND DETAILS INCORPORATED IN THE PLANS AND SPECIAL PROVISIONS INCLUDING A PHASED CONSTRUCTION.
2. PLACE ADVANCED PVMS 7 DAYS PRIOR TO CONSTRUCTION AND WILL REMAIN 7 DAYS AFTER CONSTRUCTION HAS BEGUN ALONG MD 355.
3. PRIOR TO STARTING ANY LAND DISTURBING ACTIVITIES, THE CONTRACTOR SHALL FIELD MARK THE LIMITS OF DISTURBANCE.
4. PRIOR TO BEGINNING WORK OR NEW CONSTRUCTION STAGE, THE CONTRACTOR SHALL REFER TO THE EROSION AND SEDIMENT CONTROL PLANS FOR THE REQUIRED EROSION AND SEDIMENT CONTROL MEASURES TO BE INSTALLED.
5. WORK SHALL BE PERFORMED WHILE MAINTAINING A SINGLE LANE OF TRAFFIC ON A BLOCK-BY-BLOCK BASIS OR 1000 FOOT MAXIMUM SEGMENTS.
6. UTILIZE DAY-TIME STANDARD SHOULDER CLOSURE (104.02-02) OR LANE CLOSURE FLAGGING OPERATIONS (MD 104.02-10 AND 104.02-14) FOR ALL CONSTRUCTION WORK.
7. ALL PROPOSED DRAINAGE SYSTEMS SHALL BE COMPLETED PRIOR TO MOVING TO THE NEXT WORK AREA.
8. THE FINAL STAGE OF CONSTRUCTION SHALL INCLUDE INSTALLING THE FINAL PAVEMENT SURFACE, SIGNING, PAVEMENT MARKINGS AND LANDSCAPING FOR THE ENTIRE LIMITS OF WORK.



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 MD NO-25173 EXP-06/21/2025



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
FOR SIGNATURES SEE TITLE SHEET
Chief, Design Section
Date

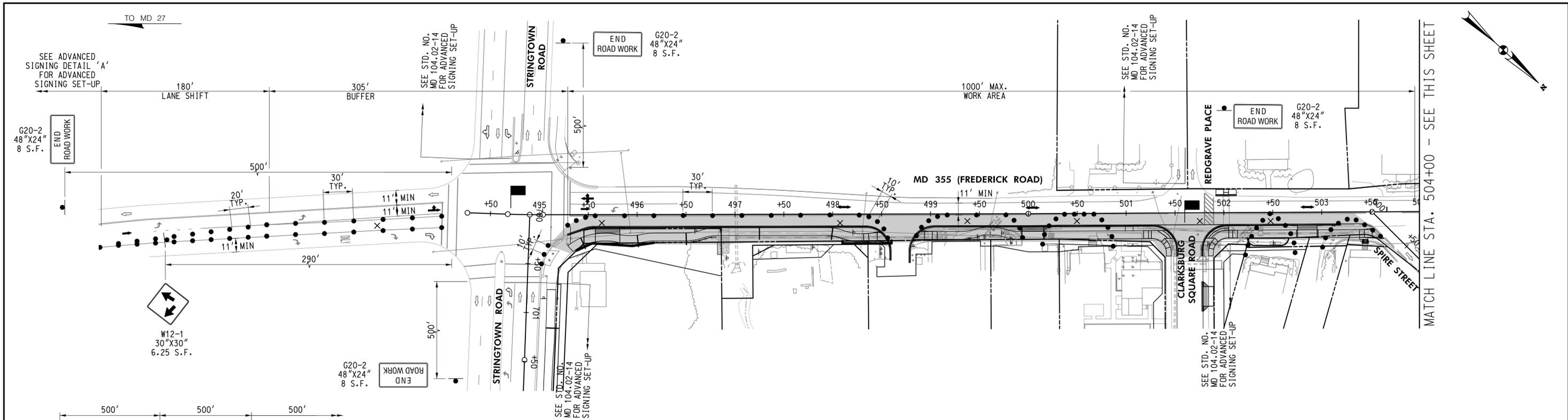
APPROVED
FOR SIGNATURES SEE TITLE SHEET
Chief, Division of Engineering Services
Date

Designed by : D.M.J. Drawn by : D.M.J. Checked by : J.L.R.

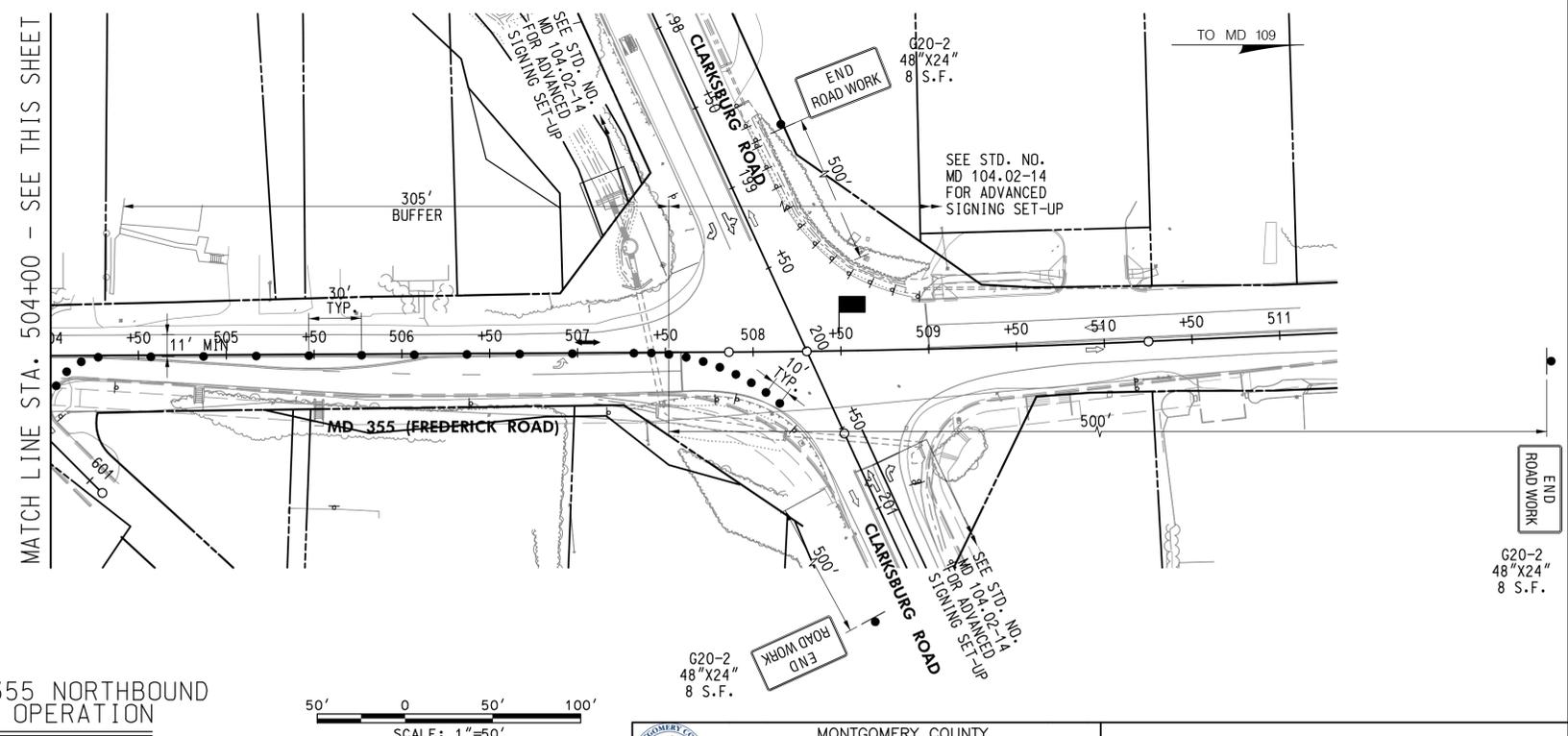
PLAN SHEET MT-01
MAINTENANCE OF TRAFFIC PLANS
MD 355 - CLARKSBURG
SHARED USE PATH
NOTES AND DETAILS

02/2025

Project No. : C.I.P. PR. # 501744 SHEET 48 of 97



ADVANCED SIGN DETAIL 'A'



TYPICAL MD 355 NORTHBOUND FLAGGING OPERATION

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

MOT LEGEND	
	CURRENT STAGE WORK AREA/ PROPOSED CONSTRUCTION
	TEMPORARY TRAFFIC FLOW ARROWS
	EXISTING TRAFFIC FLOW ARROW
	CLOSED LANE
	CHANNELIZING DEVICE
	TEMPORARY SIGN & SUPPORT
	FLAGGER

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 JOHN L. RECTANUS MD. NO-25173 EXP-06/21/2025



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 FOR SIGNATURES SEE TITLE SHEET
 Chief, Design Section _____ Date _____

APPROVED
 FOR SIGNATURES SEE TITLE SHEET
 Chief, Division of Engineering Services _____ Date _____

Designed by : D.M.J. Drawn by : D.M.J. Checked by : J.L.R.

PLAN SHEET MT-02
MAINTENANCE OF TRAFFIC
MD 355 - CLARKSBURG
SHARED USE PATH
TYPICAL PLAN

SCALE: 1" = 50' 02/2025

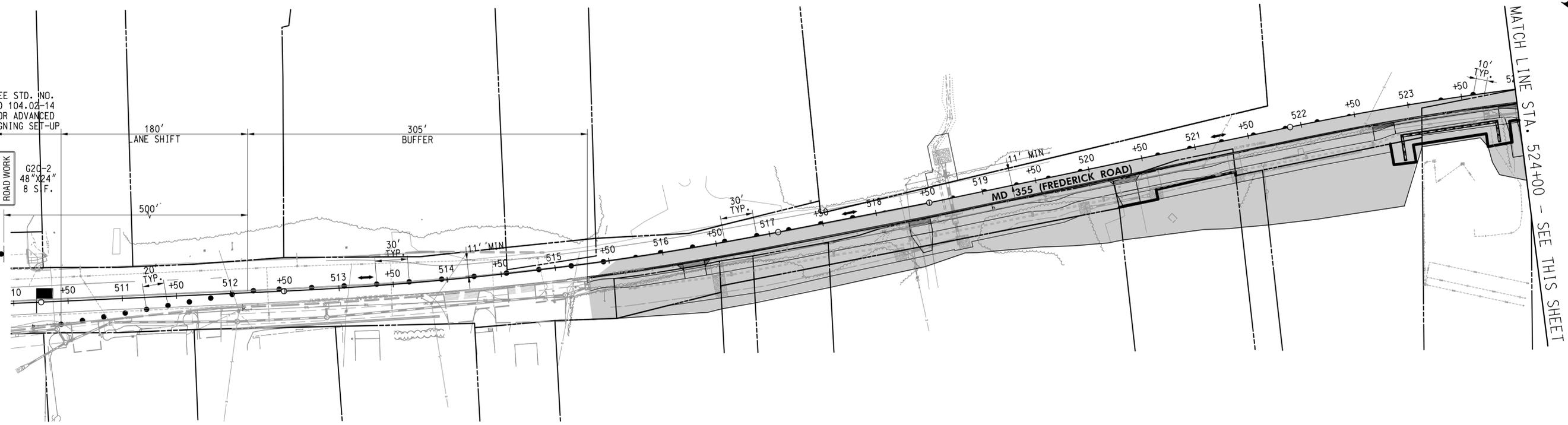
Project No. : C.I.P. PR. # 501744 SHEET 49 of 97

PLT025 6/12/2025
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SEE STD. NO. MD 104.02-14 FOR ADVANCED SIGNING SET-UP

END ROAD WORK
G20-2
48"X24"
8 S.F.

180' LANE SHIFT
305' BUFFER

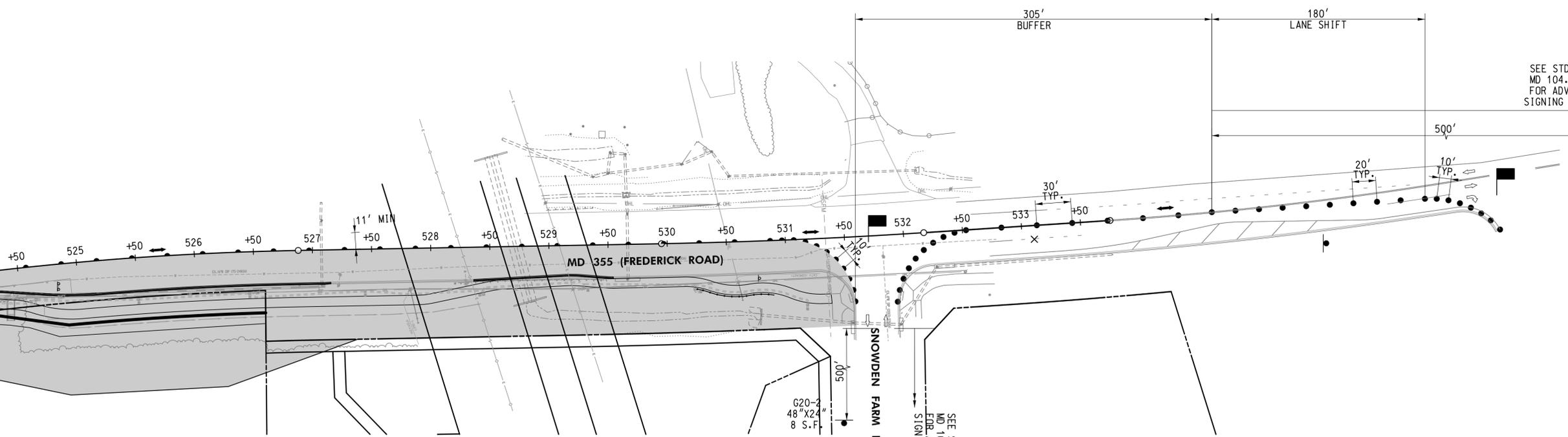


SEE STD. NO. MD 104.02-14 FOR ADVANCED SIGNING SET-UP

END ROAD WORK
G20-2
48"X24"
8 S.F.

305' BUFFER
180' LANE SHIFT

MATCH LINE STA. 524+00 - SEE THIS SHEET



TYPICAL MD 355 NORTHBOUND FLAGGING OPERATION



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

MOT LEGEND	
	CURRENT STAGE WORK AREA/ PROPOSED CONSTRUCTION
	TEMPORARY TRAFFIC FLOW ARROWS
	EXISTING TRAFFIC FLOW ARROW
	CLOSED LANE
	CHANNELIZING DEVICE
	TEMPORARY SIGN & SUPPORT
	FLAGGER

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

RECOMMENDED FOR APPROVAL
FOR SIGNATURES SEE TITLE SHEET
Chief, Design Section
Date

APPROVED
FOR SIGNATURES SEE TITLE SHEET
Chief, Division of Engineering Services
Date

Designed by : D.M.J. Drawn by : D.M.J. Checked by : J.L.R.

PLAN SHEET MT-03
MAINTENANCE OF TRAFFIC PLANS
MD 355 - CLARKSBURG
SHARED USE PATH
TYPICAL PLAN

SCALE: 1"= 50'

Project No. : C.I.P. PR. # 501744 SHEET 50 of 97

02/2025

SN-1 REV. DATE

CRITERIA

THE CONTRACTOR SHALL BE GOVERNED BY THE STANDARDS AND REQUIREMENTS OF THE FOLLOWING PUBLICATIONS, EXCEPT AS MODIFIED BY THE SPECIAL PROVISIONS OF THIS CONTRACT:

DESIGN

MDOT SHA - "MARYLAND MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES", 2011 EDITION AND SUBSEQUENT REVISIONS. (MDMUTCD)

A A S H T O - "HIGHWAY SAFETY DESIGN AND OPERATIONS GUIDE" -1997

A A S H T O - "STANDARD SPECIFICATIONS FOR STRUCTURAL SUPPORTS FOR HIGHWAY SIGNS LUMINAIRES AND TRAFFIC SIGNALS", 2001 EDITION (CATEGORY II FOR ALL OVERHEAD AND CANTILEVER SIGN STRUCTURES).

MATERIALS AND CONSTRUCTION

MDOT SHA - "STANDARD SPECIFICATIONS FOR CONSTRUCTION & MATERIALS", MOST CURRENT EDITION AND SUBSEQUENT REVISIONS AND SUPPLEMENTS.

MDOT SHA - "BOOK OF STANDARDS FOR HIGHWAY AND INCIDENTAL STRUCTURES", MOST CURRENT EDITION AND SUBSEQUENT REVISIONS AND SUPPLEMENTS.

DESIGN WIND

- 100 MPH - WOOD SUPPORTS
10 YEAR RECURRENCE INTERVAL
100 MPH - GROUND MOUNT SIGN STEEL SUPPORTS
10 YEAR RECURRENCE INTERVAL
100 MPH - OVERHEAD AND CANTILEVER STRUCTURES
50 YEAR RECURRENCE INTERVAL

DESIGN STRESS

SOIL BEARING PRESSURE - S = 3,000 P.S.F. (ASSUMED)
SEE MATERIAL & CONSTRUCTION ABOVE AND SPECIAL PROVISIONS FOR DESIGN STRESSES FOR STRUCTURAL STEEL, ALUMINUM, REINFORCING STEEL AND CONCRETE.

CHAMFER

ALL EXPOSED EDGES OF CONCRETE SHALL HAVE A 3/4" X 3/4" CHAMFER.

CLASSIFICATION OF SIGNS

- SIGNS ARE DIVIDED INTO TWO (2) GENERAL CATEGORIES.
1. GUIDE SIGNS
A) STRUCTURAL TYPES
OH - OVERHEAD
C - CANTILEVER
GM - GROUND MOUNT, BREAKAWAY OR NON-BREAKAWAY
BM - BRIDGE MOUNTED
2. STANDARD SIGNS (REGULATORY, WARNING, ETC.)
A) STRUCTURAL TYPES
WOOD SUPPORTS
SQUARE TUBE

IDENTIFICATION OF SIGNS AND PANELS

- GUIDE SIGNS
EACH GUIDE SIGN IS IDENTIFIED BY A SIGN NUMBER ON THE PLANS AND IN THE TABULATIONS. (GM-1, GM-2, GM-3, etc)
SIGNS ON STRUCTURES ARE IDENTIFIED WITH A NUMBER AND WHERE VARIATIONS OCCUR, A LOWER CASE LETTER. (OH-1a, OH-1b, OH-1c)
STANDARD SIGNS
STANDARD SIGNS ARE IDENTIFIED BY PANEL NUMBERS AND ARE CLASSIFIED AS FOLLOWS
R - REGULATORY
W - WARNING
M - ROUTE MARKERS AND ACCESSORIES
D - DESTINATION AND MILEAGE PANELS
S - SCHOOL
PANELS SHALL BE DESIGNATED TO AGREE WITH MARYLAND STANDARD SIGN BOOK. EACH STANDARD SIGN IS IDENTIFIED FIRST BY THE SHEET NUMBER, THEN BY THE NUMERICAL ORDER OF THE SIGN AS IT APPEARS ON THE PLAN. FOR EXAMPLE SHEET SN 2.1-101,102,103, ETC. SHEET SN 2.2-201,202,203,ETC.

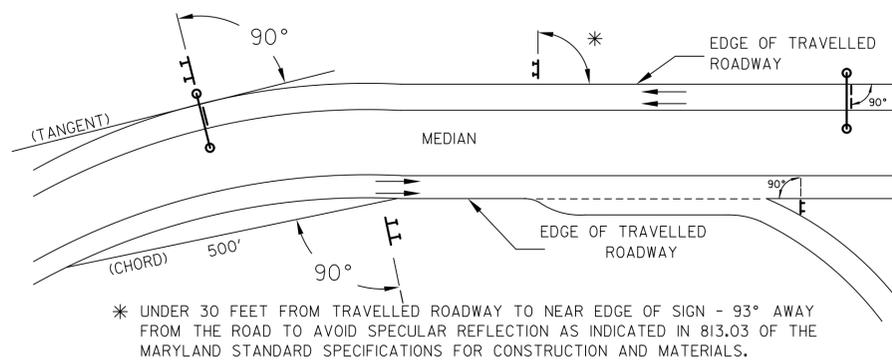
PANEL LAYOUT AND ALPHABETS

- 1. GUIDE SIGN PANEL LAYOUTS ARE BASED ON THE A.A.S.H.T.O. MANUALS NOTED ABOVE.
2. STANDARD SIGN PANEL LAYOUTS ARE BASED ON THE MDMUTCD WITH SPECIFICATIONS DETAILED IN THE MARYLAND STATE HIGHWAY ADMINISTRATION PUBLICATION, "STANDARD SIGN BOOK", AVAILABLE ONLINE AT http://apps.roads.maryland.gov/businesswithsha/bizstdsspecs/desmanualstdpub/publicationonline/oofs/internet_signbook.asp

REFLECTORIZATION

BACKGROUNDS, BORDERS, TEXTS AND ALL OTHER ELEMENTS OF SIGN PANELS SHALL BE REFLECTORIZED EXCEPT WHERE NOTED. REFER TO PROJECT REQUIREMENTS FOR MORE DETAIL.

ORIENTATION OF SIGN FACES



SIGN LOCATIONS

- 1. GUIDE SIGNS ARE LOCATED ON THE PLANS BY DIMENSION TO SURVEY STATIONS, OR WHEN NECESSARY, TO IDENTIFIABLE PHYSICAL FEATURES.
2. ALL CHANGES IN THE LOCATIONS OF SIGNS AS SHOWN ON THE PLAN SHALL HAVE THE PRIOR APPROVAL OF THE ENGINEER.

EXISTING UTILITIES

THE ENGINEER DOES NOT WARRANT OR GUARANTEE THE ACCURACY OR COMPLETENESS OF UTILITY INFORMATION SHOWN ON THE PLAN. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO LOCATE AND PROTECT ALL EXISTING FACILITIES WHICH MIGHT BE AFFECTED BY THIS WORK OR HIS OPERATION.

ROADSIDE SIGNS

- 1. VERTICAL ALIGNMENT
POSITION PANEL SO FACE IS PLUMB.
2. HORIZONTAL ALIGNMENT (SEE DIAGRAM ABOVE)
A) ON STRAIGHT ROADWAY SECTIONS, ANGLE OF SIGN FACE TO ROADWAY VARIES WITH DISTANCE FROM TRAVELLED ROADWAY TO NEAR EDGE OF SIGN - SEE DIAGRAM.
B) ON THE INSIDE OF HORIZONTAL CURVES, POSITION SIGN SO FACE OF PANEL MAKES AN ANGLE OF 90° WITH A CHORD BETWEEN A POINT ON NEAR EDGE OF PAVEMENT AT SIGN LOCATION AND A POINT ON EDGE OF PAVEMENT 500' IN ADVANCE OF SIGN.
C) ON THE OUTSIDE OF HORIZONTAL CURVES, POSITION SIGN SO FACE OF PANEL IS AT RIGHT ANGLES TO THE TANGENT OF THE CURVE AT THE SIGN LOCATION.
D) POSITIONING OF SIGNS AT GORES AND RAMP SEPARATIONS IS REFERRED TO THE NORMAL EDGE OF THE MAINLINE ROADWAY.

OVERHEAD SIGNS

- 1. VERTICAL ALIGNMENT
POSITION PANELS FOR ALL OVERHEAD STRUCTURES SO THAT PANEL FACE IS PLUMB.
2. OVERHEAD SIGN STRUCTURES SHALL NOT BE ERECTED WITHOUT ATTACHING LUMINAIRES, SUPPORTS, AND/OR SIGNS.
3. HORIZONTAL ALIGNMENT
A) POSITION ALL OVERHEAD SIGNS SO THAT THE FACE OF THE PANEL IS AT RIGHT ANGLES TO THE NORMAL EDGE OF ROADWAY, IF ON A STRAIGHT ROADWAY SECTION.
B) POSITION ALL OVERHEAD SIGNS SO THAT THE FACE OF THE PANEL IS AT RIGHT ANGLES TO THE TANGENT OF THE CURVE AT SIGN LOCATION, IF ON A HORIZONTAL CURVE.
C) POSITIONING OF SIGNS AT GORES AND RAMP SEPARATIONS IS REFERRED TO THE NORMAL EDGE OF THE MAINLINE ROADWAY.
4. VERTICAL CLEARANCE
A) OVERHEAD SIGNS SHALL HAVE A MINIMUM VERTICAL CLEARANCE OF 17'-9" FROM ROADWAY TO THE BOTTOM OF LIGHT FIXTURES. ALL LIGHT FIXTURES ARE TO BE AT THE SAME ELEVATION.
B) IF THE CONTRACTOR CANNOT OBTAIN 17'-9" (SEE 3A) CLEARANCE, HE IS TO CEASE WORK AND CONTACT THE PROJECT ENGINEER FOR FURTHER INSTRUCTIONS. THE PROJECT ENGINEER MAY CONTACT THE TRAFFIC ENGINEERING DESIGN DIVISION FOR ASSISTANCE.
C) ON ALL OVERHEAD SIGNS, THE MINIMUM CLEARANCE TO BOTTOM OF DESIGN SIGN: 20'-9".

PROJECT REQUIREMENTS

ALL NEW SIGNS ON THIS PROJECT SHALL BE FABRICATED FROM SHEETING WHICH MEETS ALL OF THE FOLLOWING REQUIREMENTS, UNLESS OTHERWISE SPECIFIED IN THE CONTRACT DOCUMENTS, OR AS DIRECTED BY THE ENGINEER:

- 1. SHEETING SHALL MEET THE REQUIREMENTS OF SECTIONS 813 AND 950.03 OF MDOT SHA'S STANDARD SPECIFICATIONS FOR CONSTRUCTION AND MATERIALS JULY 2024 EDITION AND SUBSEQUENT REVISIONS AND SUPPLEMENTS.
2. LISTED ON MDOT SHA OFFICE OF TRAFFIC AND SAFETY'S QUALIFIED PRODUCTS LIST (QPL).

PROJECT REQUIREMENTS CONT'D

- 3. THE FOLLOWING TYPES OF SHEETING SHALL BE USED FOR THE SPECIFIED SIGN CLASSIFICATIONS:
GENERAL NOTE: ALL COLORS SHALL BE RETROREFLECTIVE EXCEPT BLACK. BLACK TEXT, BORDERS, SYMBOLS OR ANY BLACK ELEMENTS OF ANY SIGN SHALL BE NON-REFLECTIVE. THIS APPLIES TO ALL MDOT SHA SIGNS AS SHOWN BELOW.
A) GUIDE, EXIT GORE, GENERAL INFORMATION, AND SERVICE SIGNS - FALL INTO TWO SUB CATEGORIES:
(I). GROUND MOUNTED:
ALL RETROREFLECTIVE SHEETING ELEMENTS OF THESE SIGNS SHALL MEET OR EXCEED THE REQUIREMENTS FOR ASTM TYPE IX (9).
(II). OVERHEAD STRUCTURE SIGNS AND OVERHEAD CANTILEVER SIGNS:
ALL RETROREFLECTIVE SHEETING ELEMENTS OF ALL OVERHEAD SIGNS SHALL MEET OR EXCEED THE REQUIREMENTS FOR ASTM TYPE XI(II). (THIS SECTION DOES NOT APPLY TO OVERHEAD SIGNALIZED INTERSECTION SIGNING; MAST ARM OR SPAN WIRE. FOLLOW THE REQUIREMENTS FOR THE RESPECTIVE SIGN CLASSIFICATION FOR SIGNAL SIGNING.)
B) WARNING SIGNS - RETROREFLECTIVE SHEETING FOR WARNING SIGNS (FLUORESCENT YELLOW AND FLUORESCENT ORANGE) SHALL MEET OR EXCEED THE REQUIREMENTS FOR ASTM TYPE IX (9). REGULATORY MESSAGES WITHIN WARNING SIGNS SHALL FOLLOW THE REQUIREMENTS FOR REGULATORY SIGNS.
C) SCHOOL SIGNS - RETROREFLECTIVE SHEETING FOR SCHOOL SIGNS (FLUORESCENT YELLOW AND FLUORESCENT YELLOW-GREEN) SHALL MEET OR EXCEED THE REQUIREMENTS FOR ASTM TYPE IX (9). REGULATORY MESSAGES WITHIN SCHOOL SIGNS SHALL FOLLOW THE REQUIREMENTS FOR REGULATORY SIGNS.
D) REGULATORY SIGNS - FALL INTO THREE SUBCATEGORIES:
(I). "RED" REGULATORY SIGNS; (SPECIFICALLY - STOP, YIELD, DO NOT ENTER AND WRONG WAY). ALL RETROREFLECTIVE SHEETING ELEMENTS OF THESE SIGNS SHALL MEET OR EXCEED THE REQUIREMENTS FOR ASTM TYPE IX (9).
(II). ALL R7 AND R8 SERIES PARKING RELATED SIGNS AND THEIR SUPPLEMENTAL PANELS, NO TRESPASSING SIGNS, AND SIGNS DIRECTED AT PEDESTRIANS AND BICYCLISTS ONLY. ALL RETROREFLECTIVE SHEETING ELEMENTS OF THESE SIGNS SHALL MEET THE REQUIREMENTS FOR ASTM TYPE IV (4).
(III). ALL OTHER REGULATORY SIGNS - ALL RETROREFLECTIVE SHEETING ELEMENTS OF THESE SIGNS SHALL MEET ASTM TYPE IV (4) INCLUDING RED ELEMENTS. WARNING MESSAGES WITHIN REGULATORY SIGNS SHALL FOLLOW THE REQUIREMENTS FOR WARNING SIGNS.
E) ROUTE MARKERS (INDEPENDENT USE AND GUIDE SIGN USE)
INDEPENDENT USE: ALL RETROREFLECTIVE SHEETING ELEMENTS OF THESE SIGNS SHALL MEET BUT NOT TO EXCEED THE REQUIREMENTS FOR ASTM TYPE IV (4).
GUIDE SIGN USE: WHEN INCORPORATED IN THE BODY OF A GUIDE SIGN, ALL RETROREFLECTIVE SHEETING ELEMENTS OF THESE SIGNS SHALL MEET THE SHEETING REQUIREMENTS OF THE GUIDE SIGNS FOR WHICH THEY ARE TO BE APPLIED; GROUND MOUNT ASTM TYPE IX (9) OR OVERHEAD ASTM TYPE XI(II).
F) LOGOS AND / OR GRAPHICS - WITHIN SIGNS SHALL FOLLOW THE REQUIREMENTS FOR THE RESPECTIVE SIGN CLASSIFICATION UNLESS OTHERWISE SPECIFIED IN THE CONTRACT DOCUMENTS, OR AS DIRECTED BY THE ENGINEER.
G) SPECIFIC SERVICE (LOGO) SIGNING - ALL COPY, DIVIDER BORDERS, LOGOS AND ARROWS SHALL BE DEMOUNTABLE ALUMINUM OVERLAYS, .032 MINIMUM TO .063 MAXIMUM. ALL RETROREFLECTIVE SHEETING ELEMENTS OF THESE SIGNS SHALL MEET OR EXCEED THE REQUIREMENTS FOR ASTM TYPE IX (9). DISTANCES ON DIRECTIONAL ARROWS WHEN SPECIFIED SHALL BE BLACK. THE OVERLAYS ARE TO BE APPLIED WITH .125 ALUMINUM POP RIVETS TO THE BODY OF THE MAIN SIGN.
H) CIVIL DEFENSE SIGNS AND OTHER SIGNS - NOT SPECIFICALLY FALLING INTO ONE OF THE CATEGORIES ABOVE, SHALL FOLLOW THE GUIDELINES FOR THE SIGN CLASSIFICATION THAT MOST CLOSELY MATCHES THE COLOR(S) OF THE PROPOSED SIGN.

4. THE FOLLOWING MINIMUM THICKNESS SHALL BE USED FOR THE APPROPRIATE WIDTH OF SHEET ALUMINUM BLANKS:

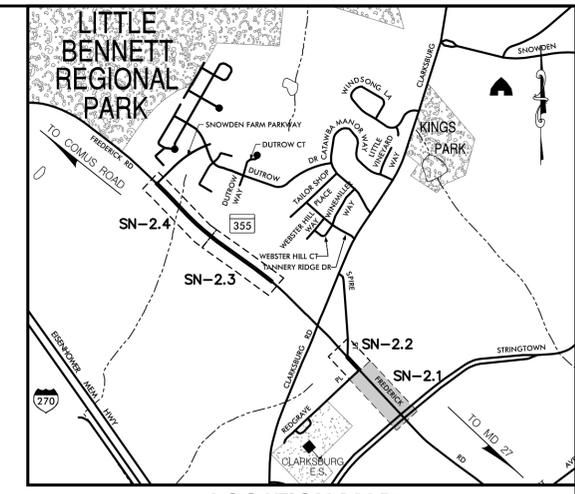
Table with 2 columns: LONGEST DIMENSION and MINIMUM THICKNESS. Rows include UP TO 12", GREATER THAN 12" TO 24", GREATER THAN 24" TO 36", GREATER THAN 36" TO 48", and OVER 48".



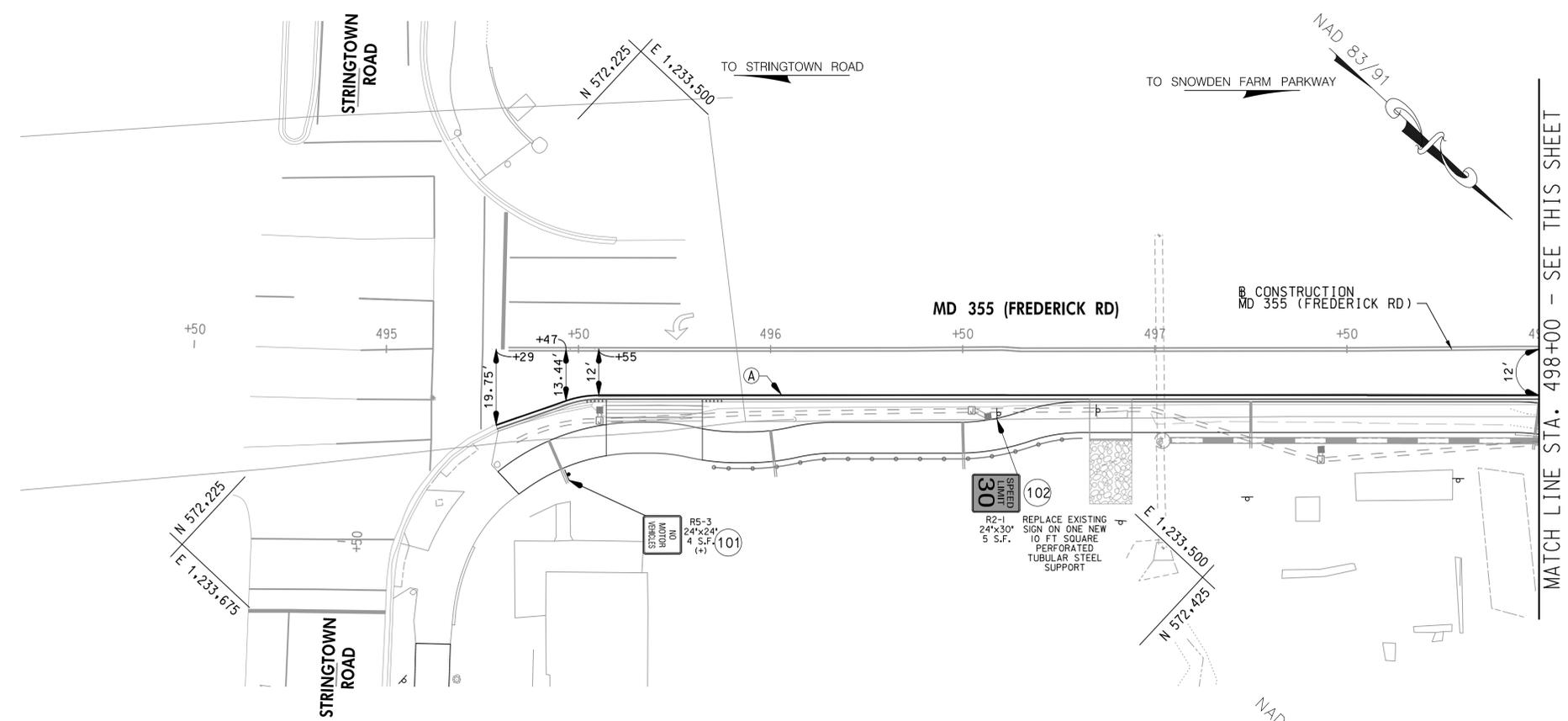
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Professional Engineer seal for John L. Rectanus, State of Maryland, License No. 25173, expires 06/21/2025. Includes project information: MONTGOMERY COUNTY DEPARTMENT OF TRANSPORTATION, 100 EDISON PARK DRIVE, 4TH FLOOR, GAITHERSBURG, MD 20878.

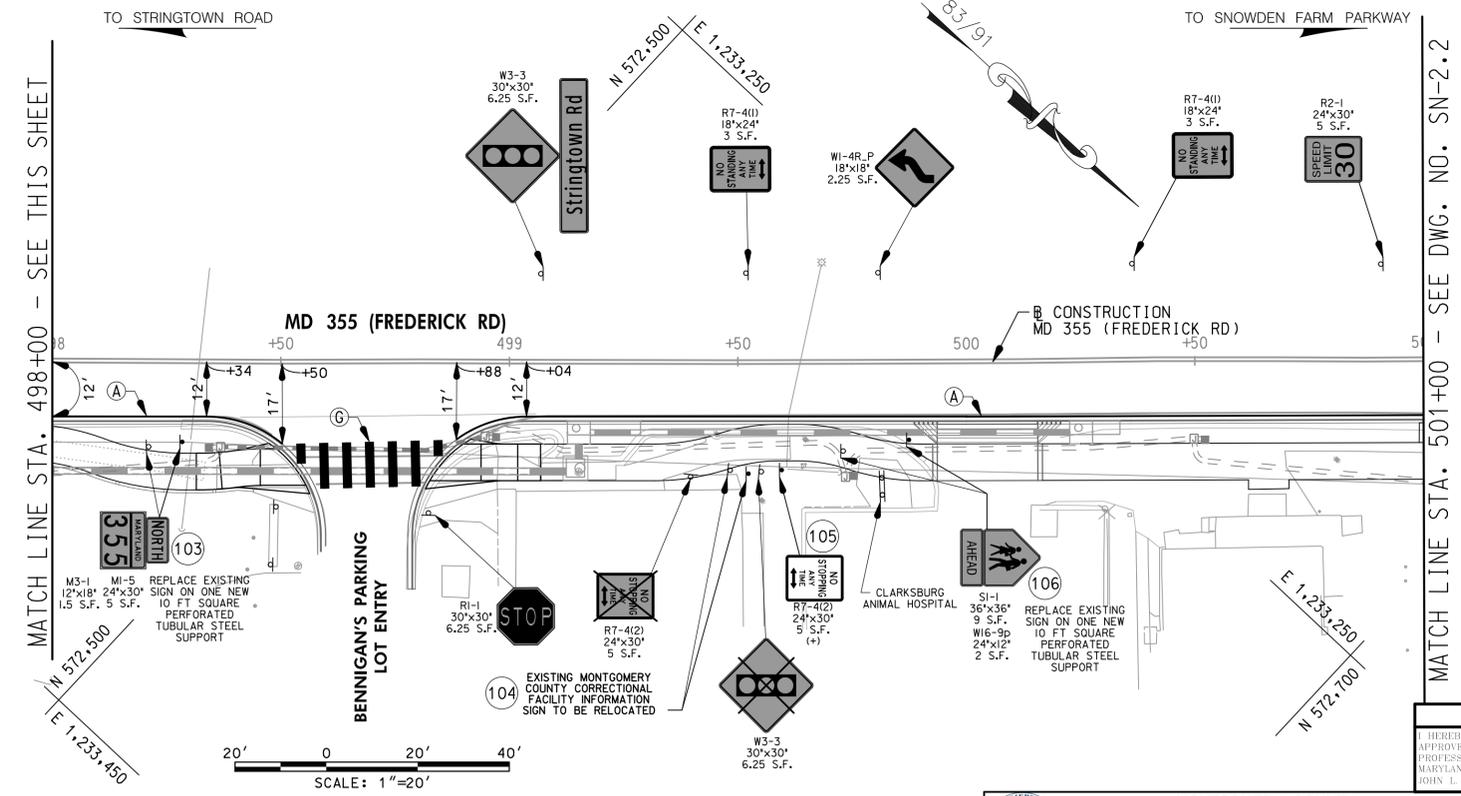
Project title block: PLAN SHEET SN-01 SIGNING & PAVEMENT MARKING PLANS MD 355 - CLARKSBURG SHARED USE PATH GENERAL NOTES. Includes scale: N.T.S., date: 02/2025, and project number: C.I.P. PR. # 501744 SHEET 51 of 97.



LOCATION MAP
SCALE 1"=1000'



MATCH LINE STA. 498+00 - SEE THIS SHEET



MATCH LINE STA. 498+00 - SEE THIS SHEET

MATCH LINE STA. 501+00 - SEE DWG. NO. SN-2+2

LEGEND	
	(A) 5" SOLID WHITE THERMOPLASTIC PAVEMENT MARKINGS
	(B) 5" SOLID YELLOW THERMOPLASTIC PAVEMENT MARKINGS
	(C) 5" DASHED WHITE THERMOPLASTIC PAVEMENT MARKINGS (3' LINE, 9' SPACE)
	(D) 5" SOLID DOUBLE YELLOW THERMOPLASTIC PAVEMENT MARKINGS
	(E) 10" SOLID WHITE THERMOPLASTIC PAVEMENT MARKINGS
	(F) 12" SOLID WHITE THERMOPLASTIC PAVEMENT MARKINGS
	(G) 24 INCH WHITE THERMOPLASTIC PAVEMENT MARKINGS
	(H) THERMOPLASTIC PAVEMENT MARKING LEGENDS AND SYMBOLS
	(I) EXISTING PAVEMENT MARKINGS TO REMAIN
	(J) EXISTING PAVEMENT MARKINGS TO BE REMOVED
	+ INSTALL ON ONE SQUARE PERFORATED TUBULAR STEEL SUPPORT
	EXISTING SIGN & SUPPORT
	EXISTING SIGN & SUPPORT TO BE REMOVED
	LANE USE ARROW



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

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
FOR SIGNATURES SEE TITLE SHEET
Chief, Design Section _____ Date _____

APPROVED
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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.

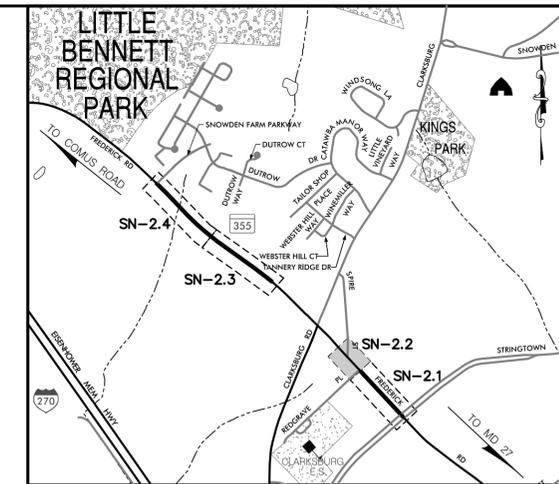
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JOHN L. RECTANUS MD NO-25173 EXP-06/21/2025

PLAN SHEET SN-2.1
SIGNING & PAVEMENT MARKING PLANS
MD 355 - CLARKSBURG
SHARED USE PATH
STA. 495+29 TO STA. 501+00
SCALE: 1"=20' 02/2025

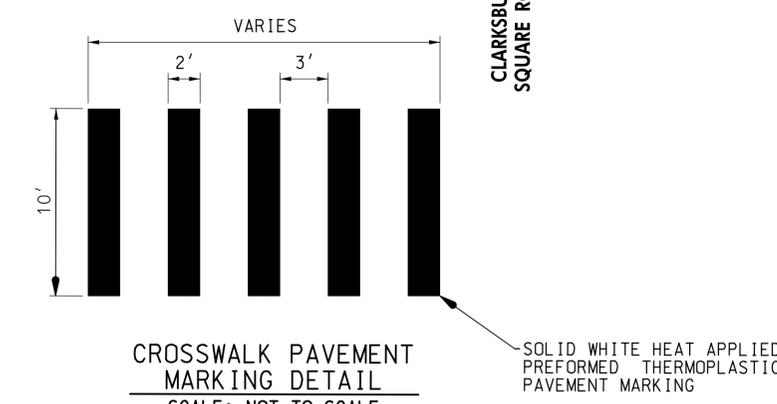
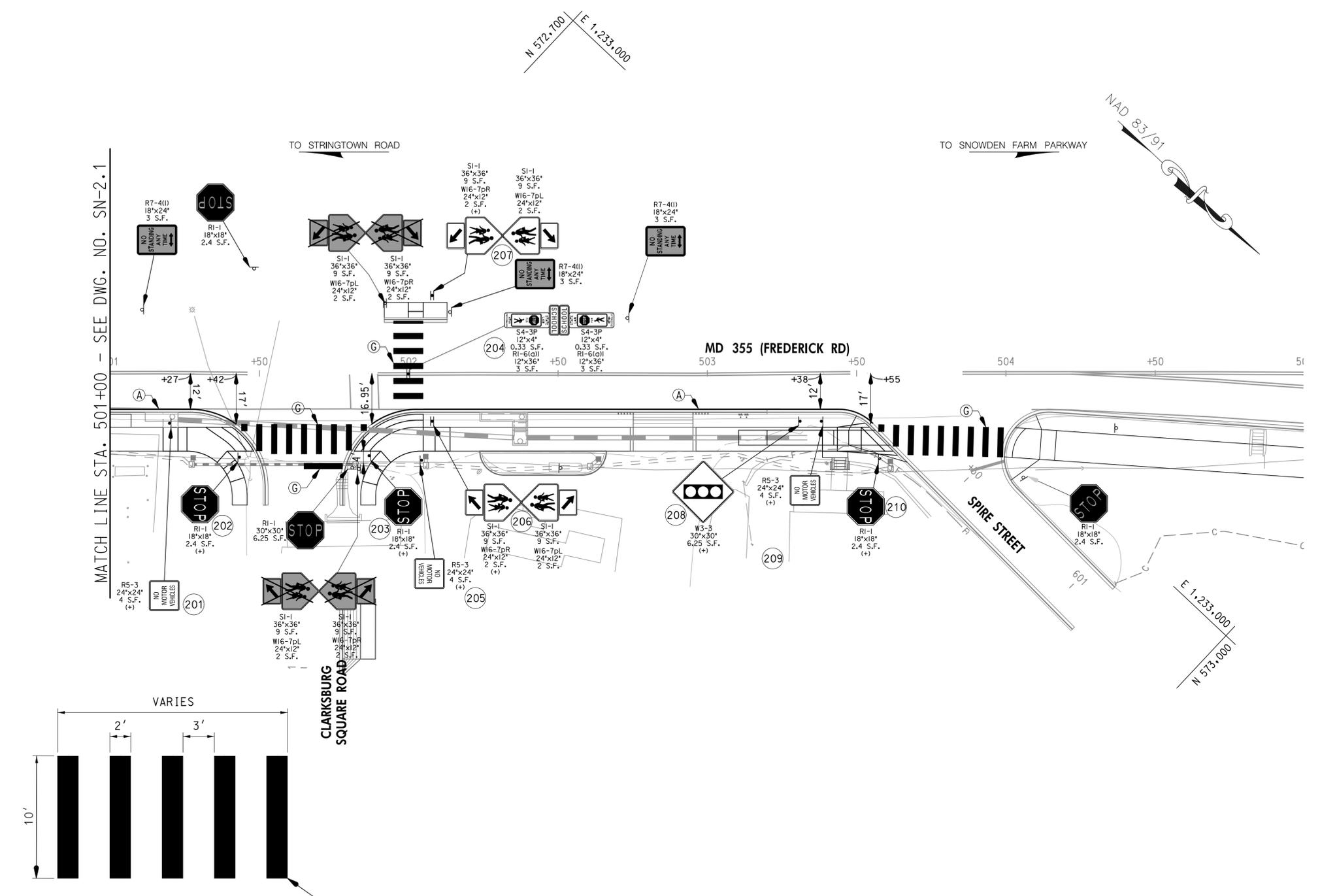
Project No. : C.I.P. PR. # 501744 SHEET 52 of 97



PLOTTED: 6/12/2025
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LOCATION MAP
SCALE 1"=1000'



LEGEND

	(A) 5' SOLID WHITE THERMOPLASTIC PAVEMENT MARKINGS
	(B) 5' SOLID YELLOW THERMOPLASTIC PAVEMENT MARKINGS
	(C) 5' DASHED WHITE THERMOPLASTIC PAVEMENT MARKINGS (3' LINE, 9' SPACE)
	(D) 5' SOLID DOUBLE YELLOW THERMOPLASTIC PAVEMENT MARKINGS
	(E) 10' SOLID WHITE THERMOPLASTIC PAVEMENT MARKINGS
	(F) 12' SOLID WHITE THERMOPLASTIC PAVEMENT MARKINGS
	(G) 24 INCH WHITE THERMOPLASTIC PAVEMENT MARKINGS
	(H) THERMOPLASTIC PAVEMENT MARKING LEGENDS AND SYMBOLS
	(I) EXISTING PAVEMENT MARKINGS TO REMAIN
	(J) EXISTING PAVEMENT MARKINGS TO BE REMOVED
	+ INSTALL ON ONE SQUARE PERFORATED TUBULAR STEEL SUPPORT



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DATUM: NAD 83/91 HORIZONTAL
NAVD 88 VERTICAL

NO.	REVISION	DATE	BY

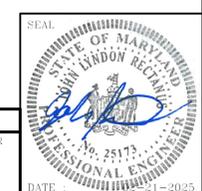
MONTGOMERY COUNTY
DEPARTMENT OF TRANSPORTATION
100 EDISON PARK DRIVE, 4TH FLOOR
GAITHERSBURG, MD 20878

RECOMMENDED FOR APPROVAL
FOR SIGNATURES SEE TITLE SHEET
Chief, Design Section
Date

APPROVED
FOR SIGNATURES SEE TITLE SHEET
Chief, Division of Engineering Services
Date

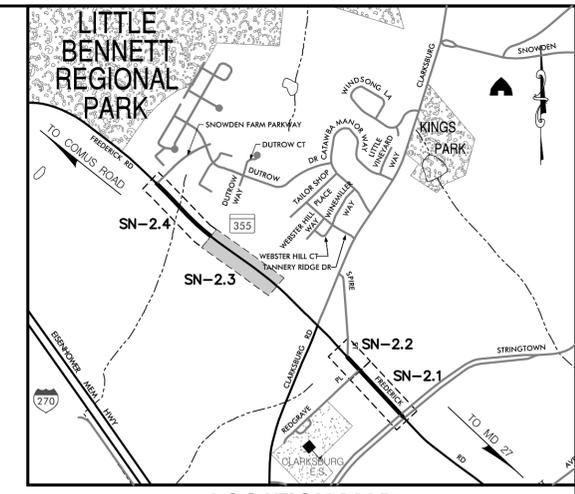
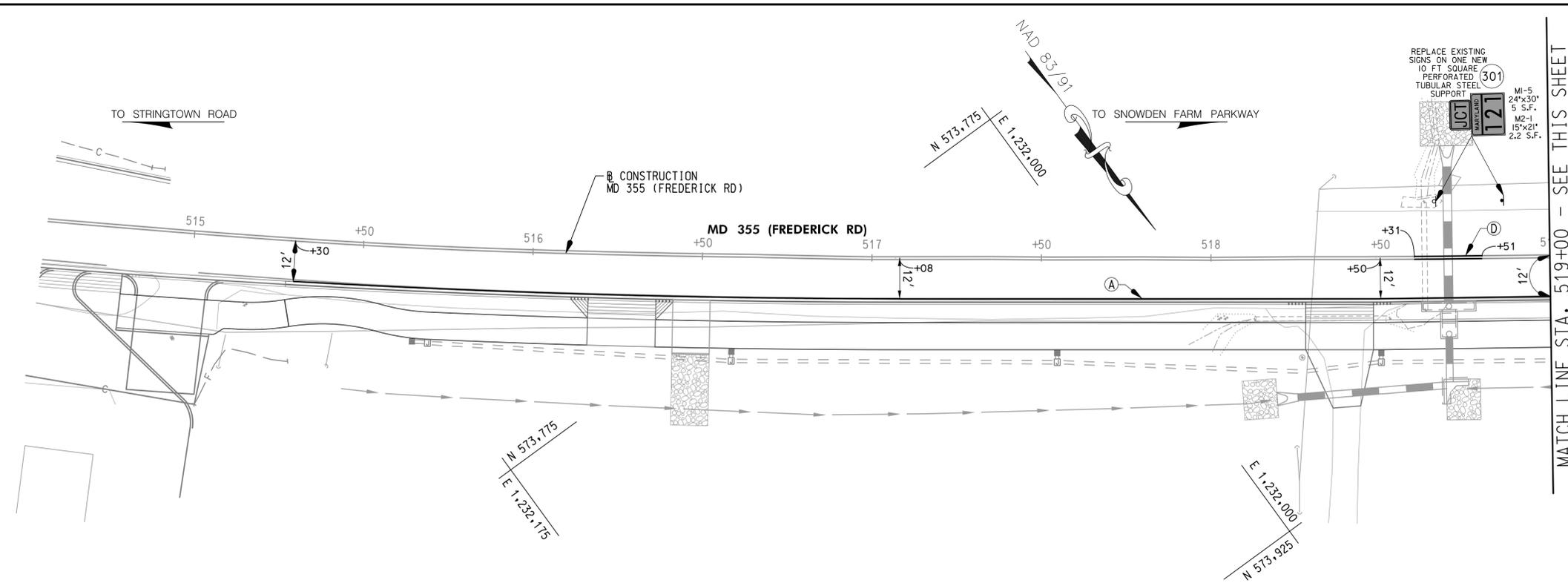
Designed by : D.M.J. Drawn by : D.M.J. Checked by : J.L.R.

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 MD NO-25173 EXP-06/21/2025
DATE: 02/2025

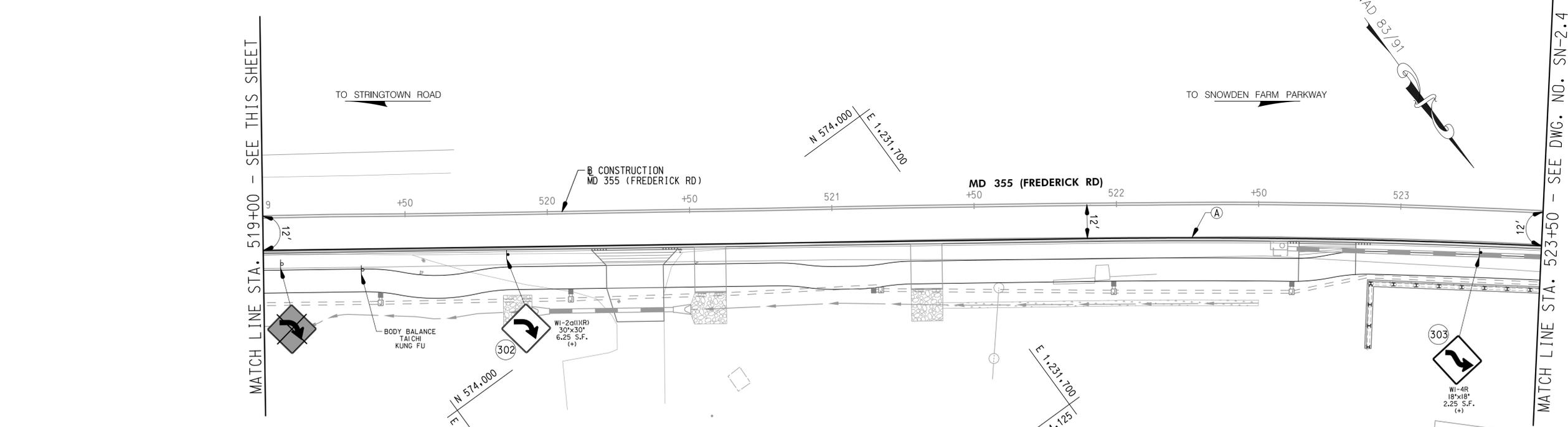


PLAN SHEET SN-2.2
SIGNING & PAVEMENT MARKING PLANS
MD 355 - CLARKSBURG
SHARED USE PATH
STA. 501+00 TO STA. 505+00
SCALE: 1"=20' 02/2025
Project No. : C.I.P. PR. # 501744 SHEET 53 of 97

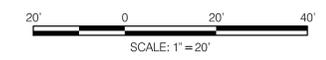
PLOTTED: 6/12/2025
FILE: H:\PROJECTS\14013.0010\Highways\Cadd_lpSN-2002_MD355.dgn



LOCATION MAP
SCALE 1"=1000'



LEGEND	
	PROPOSED SIGN & SUPPORT
	EXISTING SIGN & SUPPORT
	EXISTING SIGN & SUPPORT TO BE REMOVED
	LANE USE ARROW
(A)	5' SOLID WHITE THERMOPLASTIC PAVEMENT MARKINGS
(B)	5' SOLID YELLOW THERMOPLASTIC PAVEMENT MARKINGS
(C)	5' DASHED WHITE THERMOPLASTIC PAVEMENT MARKINGS (3' LINE, 9' SPACE)
(D)	5' SOLID DOUBLE YELLOW THERMOPLASTIC PAVEMENT MARKINGS
(E)	10' SOLID WHITE THERMOPLASTIC PAVEMENT MARKINGS
(F)	12' SOLID WHITE THERMOPLASTIC PAVEMENT MARKINGS
(G)	24 INCH WHITE THERMOPLASTIC PAVEMENT MARKINGS
(H)	THERMOPLASTIC PAVEMENT MARKING LEGENDS AND SYMBOLS
(I)	EXISTING PAVEMENT MARKINGS TO REMAIN
(J)	EXISTING PAVEMENT MARKINGS TO BE REMOVED
+	INSTALL ON ONE SQUARE PERFORATED TUBULAR STEEL SUPPORT



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 A Limited Liability Partnership

NO.	REVISION	DATE	BY

DATUM: NAD 83/91 HORIZONTAL
NAVD 88 VERTICAL

RECOMMENDED FOR APPROVAL
FOR SIGNATURES SEE TITLE SHEET
Chief, Design Section _____ Date _____

APPROVED
FOR SIGNATURES SEE TITLE SHEET
Chief, Division of Engineering Services _____ Date _____

Designed by : D.M.J. Drawn by : D.M.J. Checked by : J.L.R.

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

PLAN SHEET SN-2.3
SIGNING & PAVEMENT MARKING PLANS
MD 355 - CLARKSBURG
SHARED USE PATH
STA. 514+50 TO STA. 523+50
SCALE: 1"=20' 02/2025

Project No. : C.I.P. PR. # 501744 SHEET 54 of 97

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. REXTANUS MD NO-25173 EXP-06/21/2025 DATE: 02/21/2025

PLOTTED: 6/12/2025
FILE: \\C:\P\303\14013.0010\Highways\Cadd_lpSN-2003_MD355.dgn

MATCH LINE STA. 523+50 - SEE DWG. NO. SN-2.3

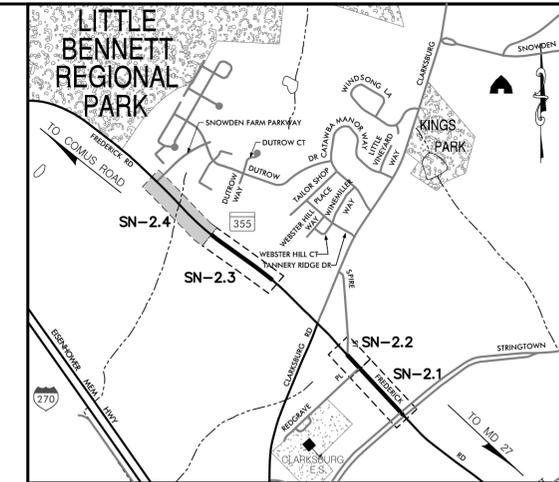
NAD 83/91 TO STRINGTOWN ROAD

MATCH LINE STA. 528+00 - SEE THIS SHEET

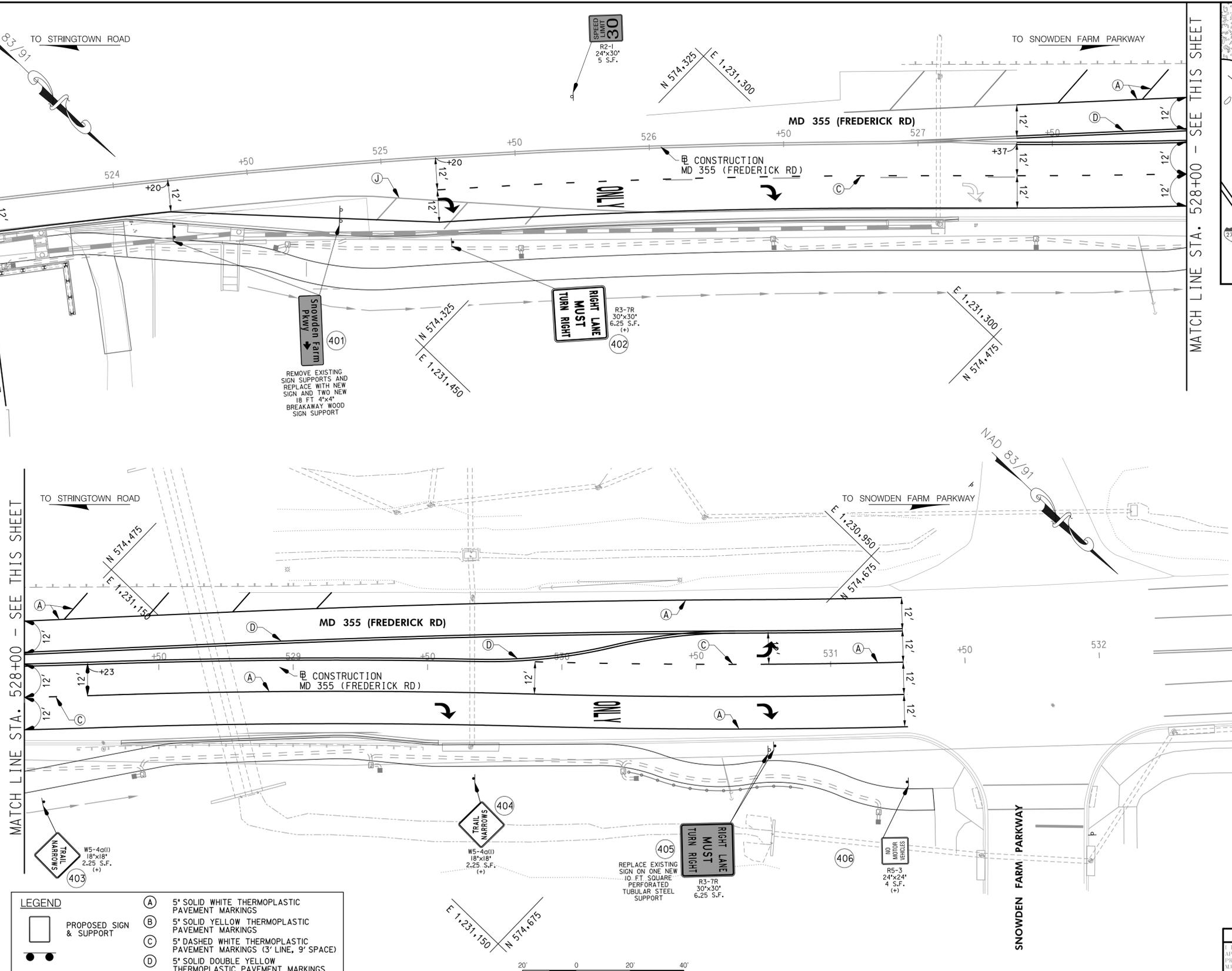
LEGEND

- | | |
|--|-------------------------------------------------------------------------|
| | (A) 5" SOLID WHITE THERMOPLASTIC PAVEMENT MARKINGS |
| | (B) 5" SOLID YELLOW THERMOPLASTIC PAVEMENT MARKINGS |
| | (C) 5" DASHED WHITE THERMOPLASTIC PAVEMENT MARKINGS (3' LINE, 9' SPACE) |
| | (D) 5" SOLID DOUBLE YELLOW THERMOPLASTIC PAVEMENT MARKINGS |
| | (E) 10" SOLID WHITE THERMOPLASTIC PAVEMENT MARKINGS |
| | (F) 12" SOLID WHITE THERMOPLASTIC PAVEMENT MARKINGS |
| | (G) 24 INCH WHITE THERMOPLASTIC PAVEMENT MARKINGS |
| | (H) THERMOPLASTIC PAVEMENT MARKING LEGENDS AND SYMBOLS |
| | (I) EXISTING PAVEMENT MARKINGS TO REMAIN |
| | (J) EXISTING PAVEMENT MARKINGS TO BE REMOVED |
| | + INSTALL ON ONE SQUARE PERFORATED TUBULAR STEEL SUPPORT |

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LOCATION MAP
SCALE 1"=1000'



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

DATUM: NAD 83/91 HORIZONTAL
NAVD 88 VERTICAL

NO.	REVISION	DATE	BY

RECOMMENDED FOR APPROVAL
 FOR SIGNATURES SEE TITLE SHEET
 Chief, Design Section
 Date
 APPROVED
 FOR SIGNATURES SEE TITLE SHEET
 Chief, Division of Engineering Services
 Date
 Designed by : D.M.J. Drawn by : D.M.J. Checked by : J.L.R.

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 JOHN L. RECTANUS MD NO-25173 EXP-06/21/2025
 DATE: 02/21/2025



PLAN SHEET SN-2.4
SIGNING & PAVEMENT MARKING PLANS
MD 355 - CLARKSBURG
SHARED USE PATH
STA. 523+50 TO STA. 532+50
 SCALE: 1"=20' 02/2025
 Project No. : C.I.P. PR. # 501744 SHEET 55 of 97

PLOTTED: 6/12/2025
 FILE: I:\Projects\14013.0010\Highways\Cadd\pSN-2004_MD355.dgn

SIGN NO.	REMARKS	CODE NUMBERS*												
		1	2	3	4	5	6	7	8	9	10	11	12	13
101	R5-3 (24"x24") 'NO MOTOR VEHICLES'	ONE SQ PERFORATED TUBULAR STEEL SUPPORT	4	1	1									
102	RELOCATE R2-1 (24"x30") 'SPEED LIMIT 30'	ONE SQ PERFORATED TUBULAR STEEL SUPPORT		1	1	5								
103	RELOCATE M3-1 (12"x18") 'NORTH', M1-5 (24"x30") 'MARYLAND 355'	ONE SQ PERFORATED TUBULAR STEEL SUPPORT		1	1	6.5								
104	RELOCATE MONTGOMERY COUNTY CORRECTIONAL FACILITY SIGN	ONE SQ PERFORATED TUBULAR STEEL SUPPORT		1	1	2								
105	R7-4(2) (24"x30") 'NO STOPPING ANY TIME'	ONE SQ PERFORATED TUBULAR STEEL SUPPORT	5	1	1									
106	RELOCATE W16-9 (24"x12") 'AHEAD', S1-1 (36"x36") SCHOOL	ONE SQ PERFORATED TUBULAR STEEL SUPPORT		1	1	5								
	REMOVE EXISTING SIGNS AND SUPPORTS						11.25							
	PAVEMENT MARKINGS							503			58			
201	R5-3 (24"x24") 'NO MOTOR VEHICLES'	ONE SQ PERFORATED TUBULAR STEEL SUPPORT	4	1	1									
202	R1-1 (18"x18") 'STOP'	ONE SQ PERFORATED TUBULAR STEEL SUPPORT	2.25	1	1									
203	R1-1 (18"x18") 'STOP'	ONE SQ PERFORATED TUBULAR STEEL SUPPORT	2.25	1	1									
204	S4-3P (12"x4") 'SCHOOL' (2), R1-6(a)1 (12"x36") IN-STREET PEDESTRIAN CROSSING (2)		6.67											
205	R5-3 (24"x24") 'NO MOTOR VEHICLES'	ONE SQ PERFORATED TUBULAR STEEL SUPPORT	4	1	1									
206	S1-1 (36"x36") SCHOOL (2), W16-7pR (24"x12") ARROW PLAQUE, W16-7pL (24"x12") ARROW PLAQUE	ONE SQ PERFORATED TUBULAR STEEL SUPPORT	22	1	1									
207	S1-1 (36"x36") SCHOOL (2), W16-7pR (24"x12") ARROW PLAQUE, W16-7pL (24"x12") ARROW PLAQUE	ONE SQ PERFORATED TUBULAR STEEL SUPPORT	22	1	1									
208	W3-3 (30"x30") SIGNAL AHEAD	ONE SQ PERFORATED TUBULAR STEEL SUPPORT	6.25	1	1									
209	R5-3 (24"x24") 'NO MOTOR VEHICLES'	ONE SQ PERFORATED TUBULAR STEEL SUPPORT	4	1	1									
210	R1-1 (18"x18") 'STOP'	ONE SQ PERFORATED TUBULAR STEEL SUPPORT	2.25	1	1									
	REMOVE EXISTING SIGNS AND SUPPORTS						44							
	PAVEMENT MARKINGS							212			215			
301	RELOCATE M2-1 (15"x21") 'JCT', M1-5 (24"x30"), 'MARYLAND 121'	ONE SQ PERFORATED TUBULAR STEEL SUPPORT		1	1	7.19								
302	W1-2a(1)(R) (30"x30") CURVE	ONE SQ PERFORATED TUBULAR STEEL SUPPORT	6.25	1	1									
303	W1-4R (18"x18") REVERSE CURVE	ONE SQ PERFORATED TUBULAR STEEL SUPPORT	2.25	1	1									
	REMOVE EXISTING SIGNS AND SUPPORTS						6.25							
	PAVEMENT MARKINGS							820	40					
401	RELOCATE EXISTING SIGN	TWO 4"x4" WOOD SUPPORT												36
402	R3-7R (30"x30") 'RIGHT LANE MUST TURN RIGHT'	ONE SQ PERFORATED TUBULAR STEEL SUPPORT	6.25	1	1									
403	W5-4a(1) (18"x18") 'TRAIL NARROWS'	ONE SQ PERFORATED TUBULAR STEEL SUPPORT	2.25	1	1									
404	W5-4a(1) (18"x18") 'TRAIL NARROWS'	ONE SQ PERFORATED TUBULAR STEEL SUPPORT	2.25	1	1									
405	R3-7R (30"x30") 'RIGHT LANE MUST TURN RIGHT'	ONE SQ PERFORATED TUBULAR STEEL SUPPORT	6.25	1	1									
406	R5-3 (24"x24") 'NO MOTOR VEHICLES'	ONE SQ PERFORATED TUBULAR STEEL SUPPORT	4	1	1									
	PAVEMENT MARKINGS							1722	1436			126		
	SUBTOTAL THIS SHEET		114.17	23	23	25.69	61.5	3590	1630			310	140	36

* CODE NUMBER DESCRIPTION & UNIT		
CODE NUMBERS	DESCRIPTION	UNIT
1	SHEET ALUMINUM SIGNS	SF
2	SQUARE PERFORATED TUBULAR STEEL SIGN POSTS	EA
3	SQUARE TUBULAR STEEL ANCHOR BASES	EA
4	RELOCATE EXISTING GROUND MOUNTED SIGNS	SF
5	REMOVE EXISTING GROUND MOUNTED SIGNS AND SUPPORTS	SF
6	5 INCH WHITE THERMOPLASTIC PAVEMENT MARKING LINES	LF
7	5 INCH YELLOW THERMOPLASTIC PAVEMENT MARKING LINES	LF
8	12 INCH WHITE PREFORMED THERMOPLASTIC PAVEMENT MARKING LINES	LF
9	16 INCH WHITE PREFORMED THERMOPLASTIC PAVEMENT MARKING LINES	LF
10	24 INCH WHITE PREFORMED THERMOPLASTIC PAVEMENT MARKING LINES	LF
11	WHITE PREFORMED THERMOPLASTIC PAVEMENT MARKING LEGENDS AND SYMBOLS	SF
12	BIKE LANE PREFORMED THERMOPLASTIC PAVEMENT MARKING WITH ARROW	SF
13	4"x4" WOOD SUPPORT	LF



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
 FOR SIGNATURES SEE TITLE SHEET
 Chief, Design Section _____ Date _____
 APPROVED
 FOR SIGNATURES SEE TITLE SHEET
 Chief, Division of Engineering Services _____ Date _____
 Designed by : D.M.J. Drawn by : D.M.J. Checked by : J.L.R.

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 JOHN L. RECTANUS MD NO-25173 EXP-06/21/2025 DATE: 02/2025

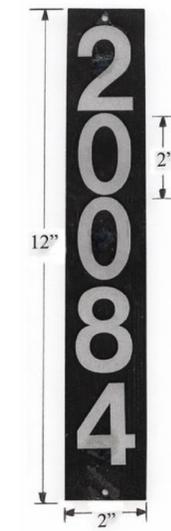


PLAN SHEET SN-11.1
SIGNING & PAVEMENT MARKING PLANS
MD 355 - CLARKSBURG
SHARED USE PATH
INDEX OF QUANTITIES
 SCALE: N.T.S. 02/2025
 Project No. : C.I.P. PR. # 501744 SHEET 56 of 97

POLE SCHEDULE

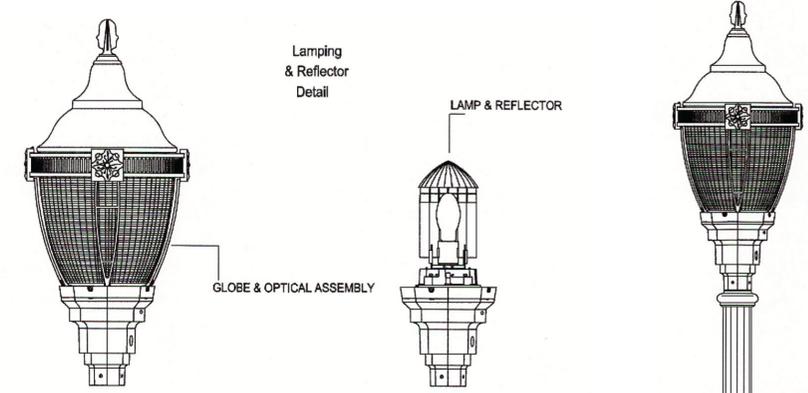
POLE NUMBER	TYPE OF POLE	POLE OFFSET FROM TRAVEL LANE **	STATION AND OFFSET	LUMINAIRE / WATTAGE	TYPE OF BASE	DRAWING NUMBER
22243	12' DECORATIVE POLE	6'	495+64, 17' RT	LED/53W	Breakaway	LT-02
22245	12' DECORATIVE POLE	5'	496+57, 16' RT	LED/53W	Breakaway	LT-02
22247	12' DECORATIVE POLE	14'	497+43, 26' RT	LED/53W	Breakaway	LT-02
22249	12' DECORATIVE POLE	5'	498+35, 16' RT	LED/53W	Breakaway	LT-03
22251	12' DECORATIVE POLE	6'	498+97, 17' RT	LED/53W	Breakaway	LT-03
22253	12' DECORATIVE POLE	6'	499+90, 17' RT	LED/53W	Breakaway	LT-03
22255	12' DECORATIVE POLE	6'	500+52, 17' RT	LED/53W	Breakaway	LT-03
22257	12' DECORATIVE POLE	16'	501+28, 28' RT	LED/53W	Breakaway	LT-03
22259	12' DECORATIVE POLE	16'	502+06, 28' RT	LED/53W	Breakaway	LT-04
22261	12' DECORATIVE POLE	17'	502+64, 29' RT	LED/53W	Breakaway	LT-04
22263	12' DECORATIVE POLE	18'	503+61, 29' RT	LED/53W	Breakaway	LT-04
22265	12' DECORATIVE POLE	6'	515+65, 17' RT	LED/53W	Breakaway	LT-05
22267	12' DECORATIVE POLE	6'	516+59, 18' RT	LED/53W	Breakaway	LT-05
22269	12' DECORATIVE POLE	7'	517+55, 18' RT	LED/53W	Breakaway	LT-05
22271	12' DECORATIVE POLE	6'	518+50, 18' RT	LED/53W	Breakaway	LT-05
22273	12' DECORATIVE POLE	7'	519+41, 19' RT	LED/53W	Breakaway	LT-06
22275	12' DECORATIVE POLE	7'	520+08, 18' RT	LED/53W	Breakaway	LT-06
22277	12' DECORATIVE POLE	7'	521+14, 18' RT	LED/53W	Breakaway	LT-06
22279	12' DECORATIVE POLE	7'	521+99, 18' RT	LED/53W	Breakaway	LT-06
22281	12' DECORATIVE POLE	7'	522+62, 18' RT	LED/53W	Breakaway	LT-06
22283	12' DECORATIVE POLE	7'	523+59, 18' RT	LED/53W	Breakaway	LT-07
22285	12' DECORATIVE POLE	6'	524+57, 28' RT	LED/53W	Breakaway	LT-07
22287	12' DECORATIVE POLE	8'	525+50, 36' RT	LED/53W	Breakaway	LT-07
22289	12' DECORATIVE POLE	8'	526+45, 35' RT	LED/53W	Breakaway	LT-07
22291	12' DECORATIVE POLE	10'	527+44, 36' RT	LED/53W	Breakaway	LT-07
22293	12' DECORATIVE POLE	17'	528+41, 44' RT	LED/53W	Breakaway	LT-08
22295	12' DECORATIVE POLE	16'	529+32, 43' RT	LED/53W	Breakaway	LT-08
22297	12' DECORATIVE POLE	15'	530+27' 42' RT	LED/53W	Breakaway	LT-08
22299	12' DECORATIVE POLE	33'	531+16, 59' RT	LED/53W	Breakaway	LT-08

** - POLE OFFSET MEASURED TO THE CENTER OF THE POLE



STREETLIGHT POST NUMBERING TAG

NOT TO SCALE

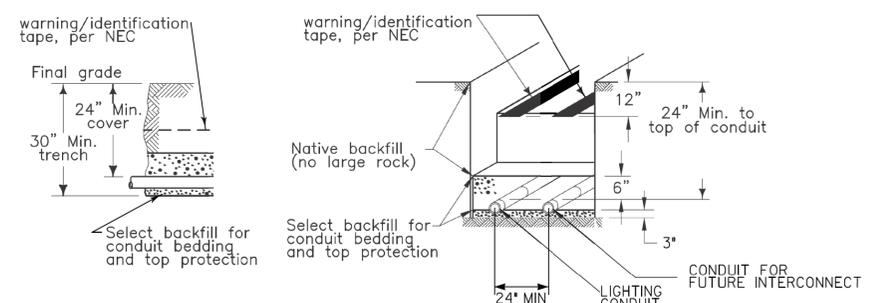


- GLOBE:
X TYPE V, ACRYLIC
FASTENERS:
X HEX HEAD BOLTS
- REFLECTOR:
X SMALL TOP W/ HSS SOCKET:
X MOGUL
- LAMP: 40WATT LED
VOLTAGE: 208V, 1Ø

- TYPICAL REQUIREMENTS
- HOUSING:
- ALL HARDWARE SHALL BE STAINLESS STEEL & CAPTIVE
 - OCTAGONAL STYLE FITTER IS CONSTRUCTED WITH 360 ALUMINUM ALLOY WITH BOTTOM HINGED DOOR FOR EASY ACCESS TO ELECTRICAL COMPONENTS
 - WIRING BLOCK TO ACCEPT #8 STRANDED OR SOLID WIRES
 - HEAVY CAST ALUMINUM POST FITTER UTILIZES 5/16-18 BLACK CADMIUM 4-STAINLESS STEEL SCREWS FOR MOUNT 3" O.D POST TENON.
 - GLOBE HOLDER HAS INTERNAL WATER TO PREVENT WATER INSIDE OF GLOBE & BALLAST COMPARTMENT
 - GLOBE IS HELD BY UTILIZING 5/16-18 BLACK CADMIUM 4-STAINLESS STEEL FASTENERS
 - FINISH IS POLYESTER THERMOSET POWDERCOAT.
- GLOBE & OPTICAL ASSEMBLY
- TYPE V WIDE BODY GLOBE IS CONSTRUCTED OF CLEAR INJECTION MOLDED U.V. STABILIZED ACRYLIC
- FINISH
- THERMOSTAT POLYESTER POWDERCOAT IS ELECTROSTATICALLY APPLIED AFTER FIVE STAGE CONVERSION CLEANING PROCESS AND BONDED BY HEAT FUSION THERMOSETTING.
 - LAB TESTED FOR FADE RESISTANCE AND WEATHERABILITY IN ACCORDANCE WITH ASTM B117.

TYPICAL LUMINAIRE AND ASSOCIATED REQUIREMENTS

NOT TO SCALE



TRENCH CONDUIT BEDDING AND TOP PROTECTION DETAIL

NOT TO SCALE

CATEGORY CODE NO.	DESCRIPTION	UNIT	QUANTITY
801003	CONCRETE FOR LIGHT FOUNDATION	CY	16
805118	3 INCH SCHEDULE 80 RIGID PVC CONDUIT - BORED	LF	120
805135	3 INCH SCHEDULE 80 RIGID PVC CONDUIT - TRENCHED	LF	2270
811001	FURNISH AND INSTALL ELECTRICAL HANDHOLE	EA	30
837001	GROUND ROD - 3/4 INCH DIAMETER X 10 FOOT LENGTH	EA	29

PAY ITEMS

- NOTE:
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR FURNISHING AND INSTALLING THE LIGHT POLE FOUNDATIONS, ELECTRICAL JUNCTION BOXES, CONDUIT AND GROUND RODS. POTOMAC EDISON SHALL BE RESPONSIBLE FOR FURNISHING AND INSTALLING THE SPECIFIED LIGHT POLES AND LUMINAIRES, WIRING, SPLICING AND POWER CONNECTIONS.

- TYPICAL REQUIREMENTS
- ALL HARDWARE SHALL BE STAINLESS STEEL & CAPTIVE
 - COLOR: COORDINATE POLE COLOR WITH ARCHITECT
 - NOTICE: THIS DRAWING IS FOR REFERENCE ONLY.
- PREFFERED DESIGN
- SUGGESTED MANUFACTURERS:
PHILLIPS HADCO
GLOBE & POLE BY SAME MANUFACTURER

TYPICAL LIGHT STANDARD

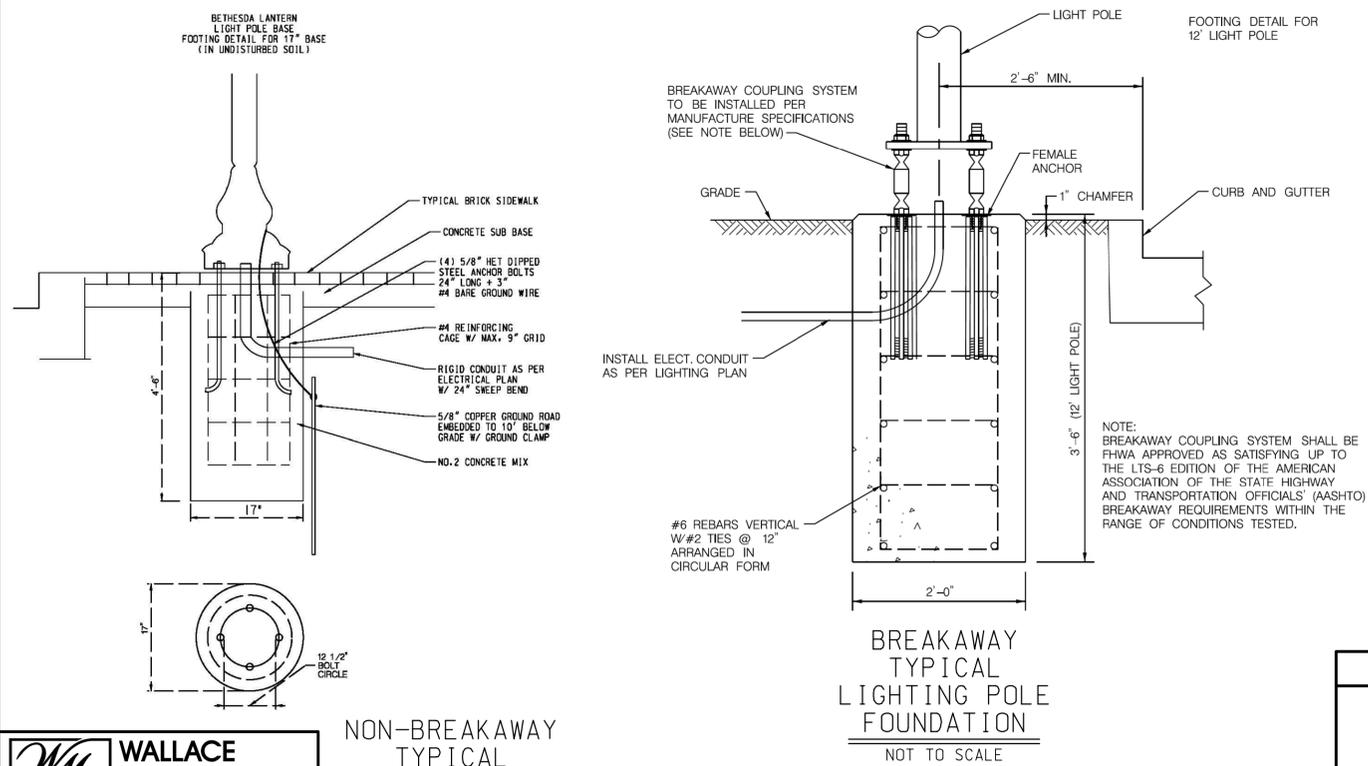
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JOHN L. RECTANUS MD NO-25173 EXP-06/21/2025

DATE: 02-21-2025



BREAKAWAY TYPICAL LIGHTING POLE FOUNDATION

NOT TO SCALE

WALLACE MONTGOMERY
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10150 York Road, Suite 200
Hunt Valley, Maryland 21030
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www.wallacemontgomery.com A Limited Liability Partnership

NON-BREAKAWAY TYPICAL LIGHTING POLE FOUNDATION

NOT TO SCALE

NO.	REVISION	DATE	BY

DATUM: NAD 83/91 HORIZONTAL
NAVD 88 VERTICAL

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

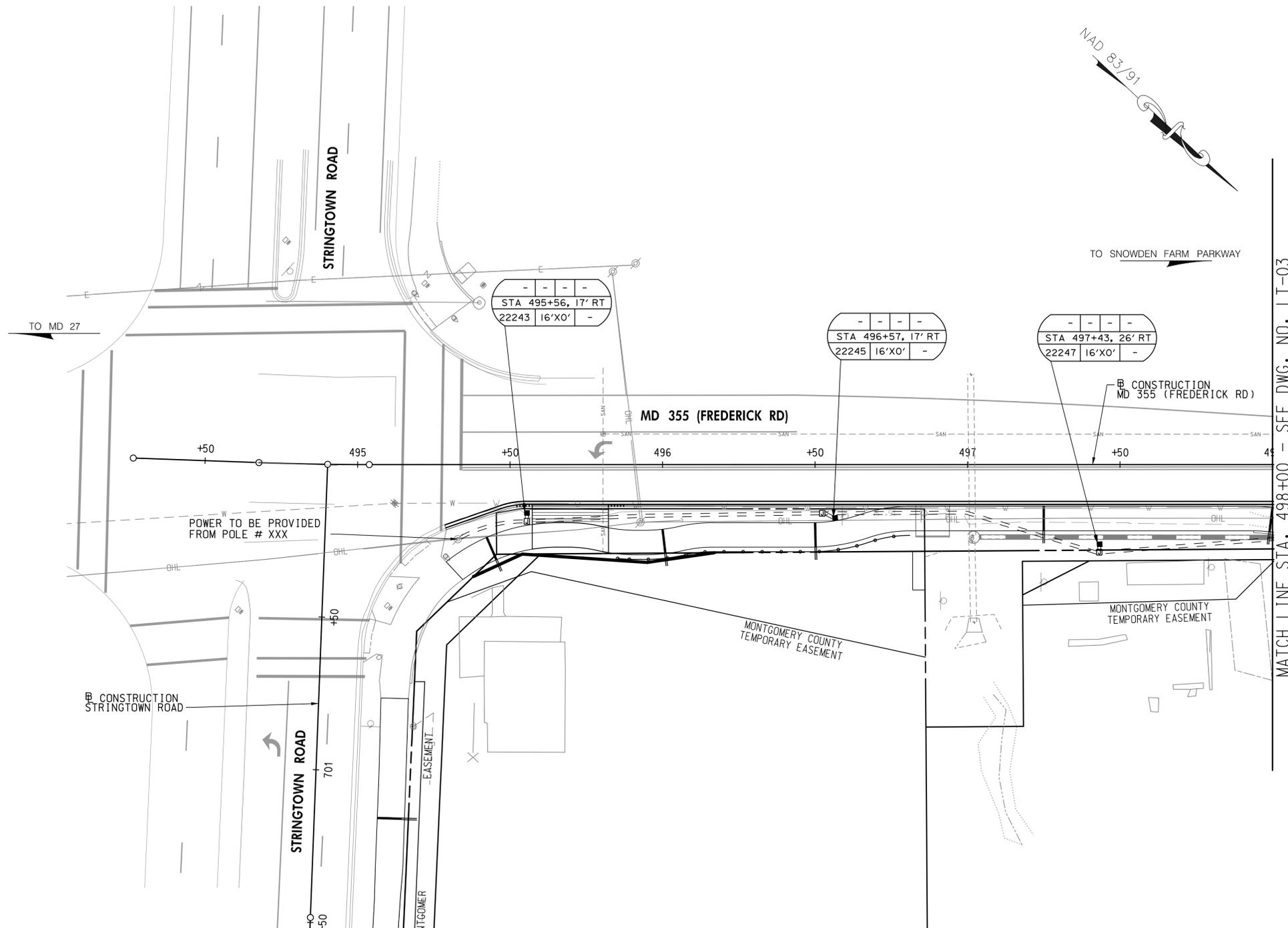
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Chief, Design Section Date

APPROVED
FOR SIGNATURES SEE TITLE SHEET
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 PLANS
MD 355 - CLARKSBURG
SHARED USE PATH
DETAILS AND SCHEDULES

Project No. : C.I.P. PR. # 501744 SHEET 57 of 97



NOTE:
 1. THE CONTRACTOR SHALL BE RESPONSIBLE FOR FURNISHING AND INSTALLING THE LIGHT POLE FOUNDATIONS, ELECTRICAL JUNCTION BOXES, CONDUIT AND GROUND RODS. POTOMAC EDISON SHALL BE RESPONSIBLE FOR FURNISHING AND INSTALLING THE SPECIFIED LIGHT POLES AND LUMINAIRES, WIRING, SPLICING AND POWER CONNECTIONS.

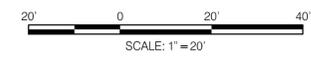
LEGEND

- PROPOSED 53 WATT LED POST TOP LUMINAIRE, POLE AND JUNCTION BOX (SEE DETAIL ON LT-01)
- 3 INCH SCHEDULE 80 PVC CONDUIT (TRENCHED)
- 3 INCH SCHEDULE 80 PVC CONDUIT (BORED)
- + GROUND ROD
- ELECTRICAL JUNCTION BOX (STD. NO. MD 811.02)

WALLACE MONTGOMERY
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SIGN & LIGHT POLE IDENTIFICATION TAG

STATION	LOCATION OF POLE
POL MH x AL	POLE HEIGHT AND MAST ARM LENGTH
	POLE OR SIGN IDENTIFICATION NUMBER



REVISIONS			
NO.	REVISION	DATE	BY

DATUM: NAD 83/91 HORIZONTAL
 NAVD 88 VERTICAL

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

RECOMMENDED FOR APPROVAL
 FOR SIGNATURES SEE TITLE SHEET
 Chief, Design Section _____ Date _____

APPROVED
 FOR SIGNATURES SEE TITLE SHEET
 Chief, Division of Engineering Services _____ Date _____

Designed by : D.M.J. Drawn by : D.M.J. Checked by : J.L.R.

PROFESSIONAL CERTIFICATION

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 JOHN L. RECTANUS MD NO. 25173 EXP-06/21/2025

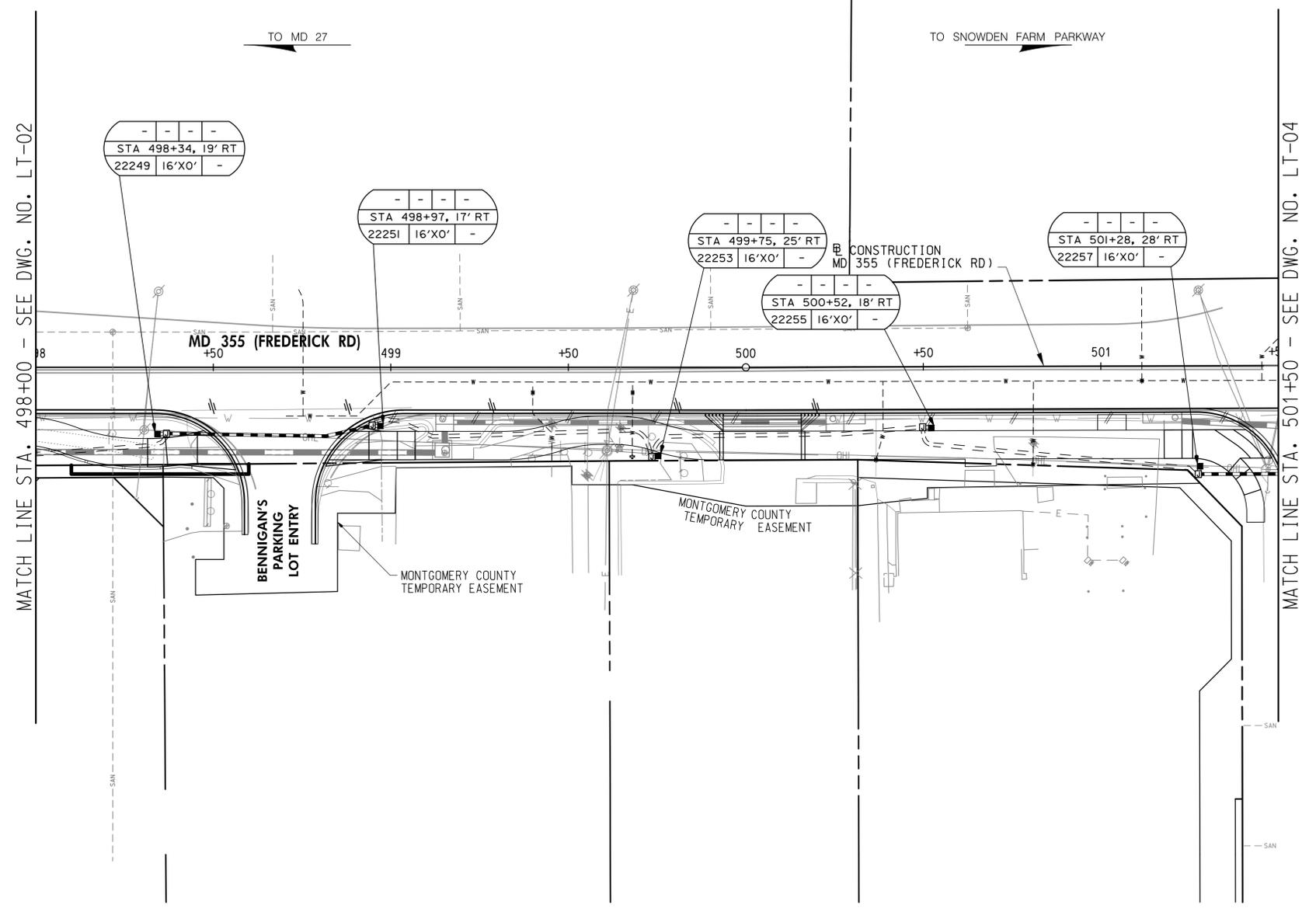
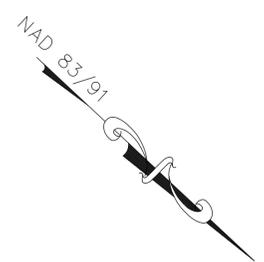
DATE: 02/2025



PLAN SHEET LT-02
LIGHTING PLANS
MD 355 - CLARKSBURG
SHARED USE PATH
STA. 495+29 TO STA. 498+00

SCALE: 1" = 20' 02/2025

Project No. : C.I.P. PR. # 501744 SHEET 58 of 97



NOTE:

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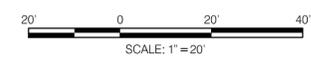
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- ELECTRICAL JUNCTION BOX (STD. NO. MD 811.02)

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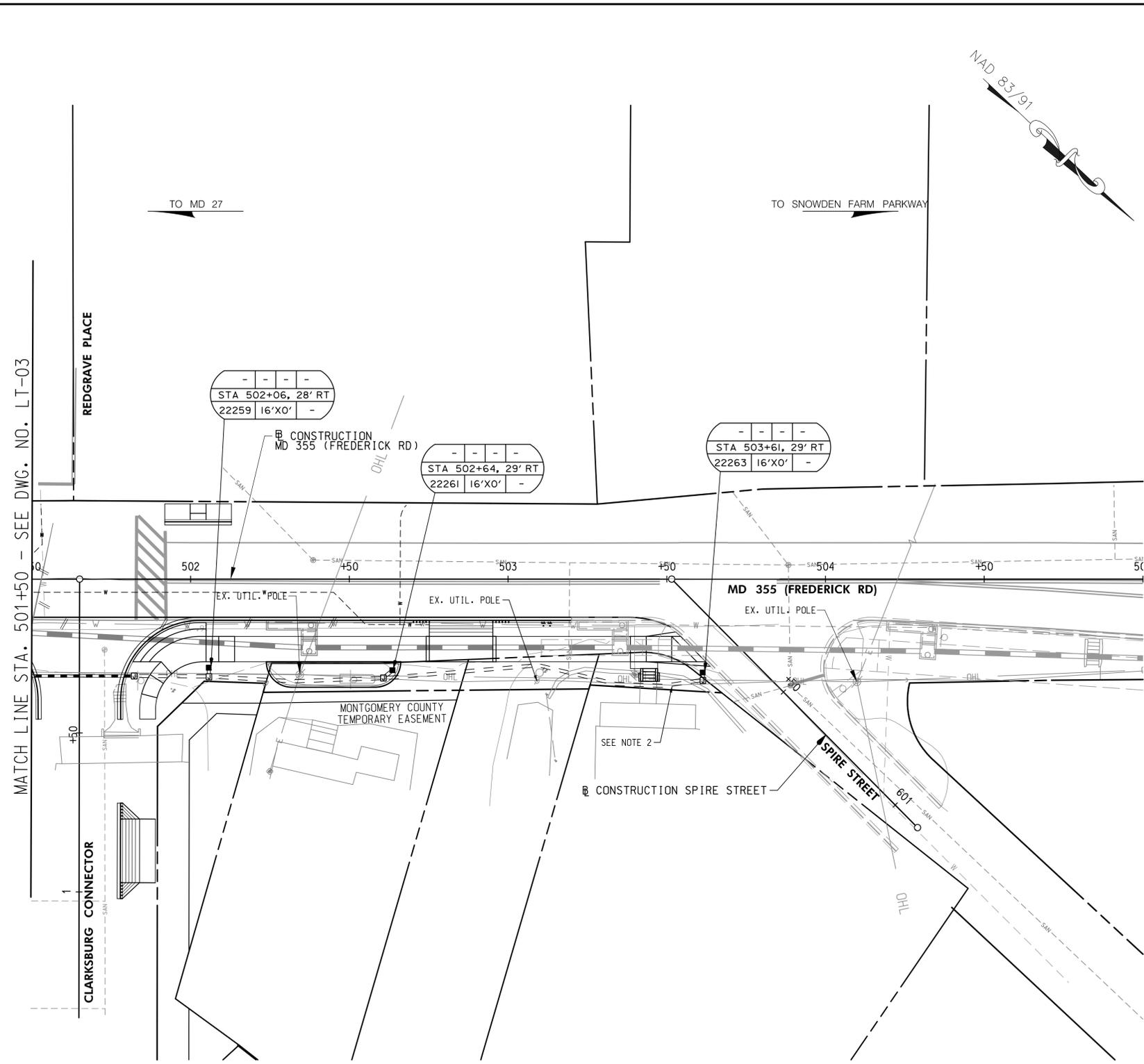
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PLAN SHEET LT-03
LIGHTING PLANS
MD 355 - CLARKSBURG
SHARED USE PATH
STA. 498+00 TO STA. 501+50

SCALE: 1" = 20' 02/2025

Project No. : C.I.P. PR. # 501744 SHEET 59 of 97



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2. INSTALLATION OF PROPOSED CONDUIT TO BE COMPLETED AFTER REMOVAL OF EXISTING SITE WALL AND PRIOR TO INSTALLATION OF PROPOSED SITE WALL. WHERE PROPOSED CONDUIT CROSSES PROPOSED SITE WALL, PROPOSED CONDUIT SHOULD BE INSTALLED AT A DEPTH BELOW PROPOSED SITE WALL FOUNDATION.

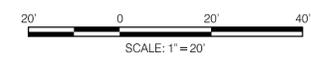
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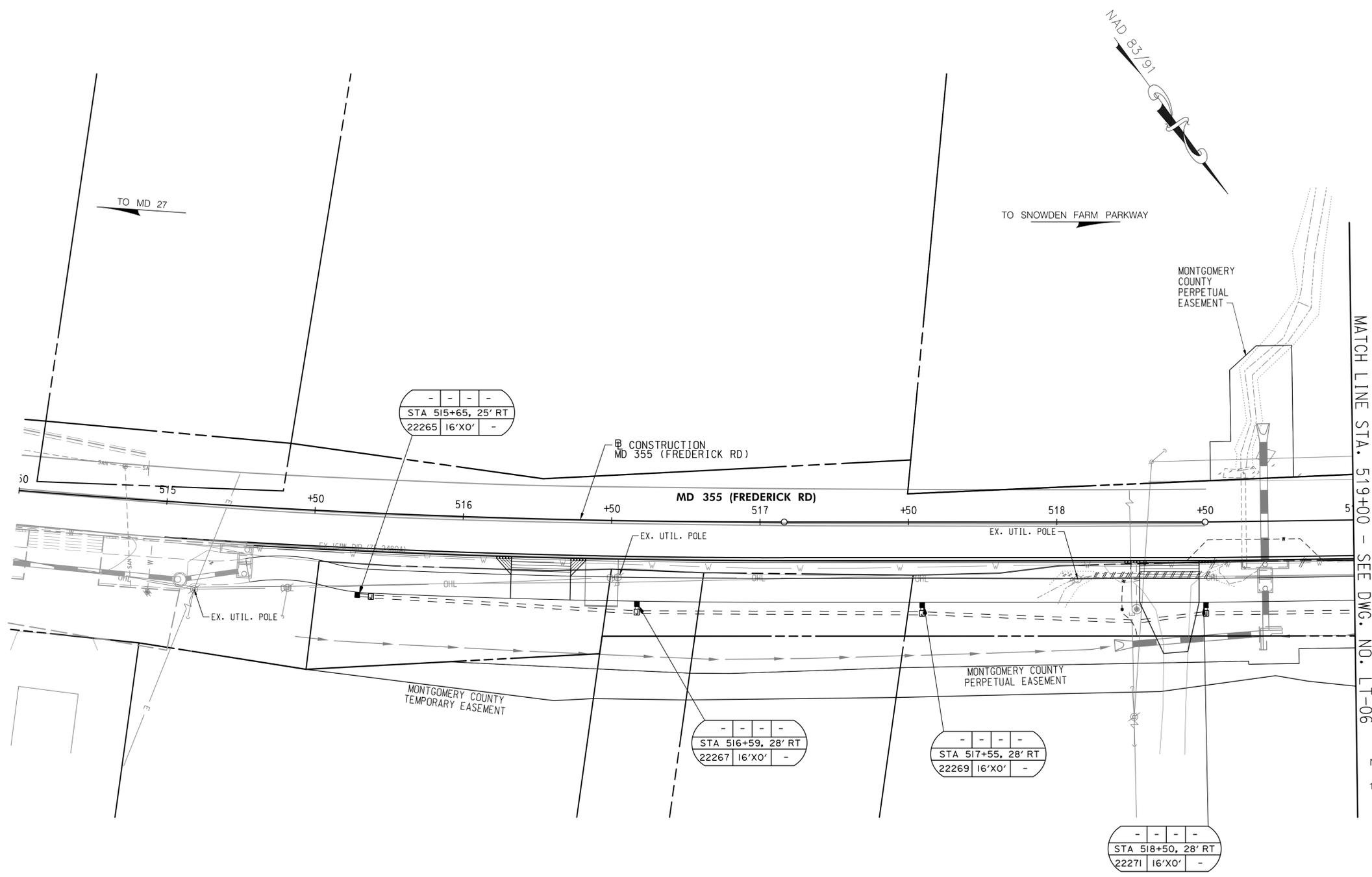
JOHN L. RECTANUS MD NO. 25173 EXP-06/21/2025



PLAN SHEET LT-04
LIGHTING PLANS
MD 355 - CLARKSBURG
SHARED USE PATH
STA. 501+50 TO STA. 505+50

SCALE: 1" = 20' 02/2025

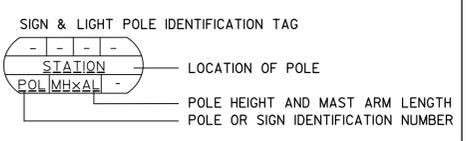
Project No. : C.I.P. PR. # 501744 SHEET 60 of 97



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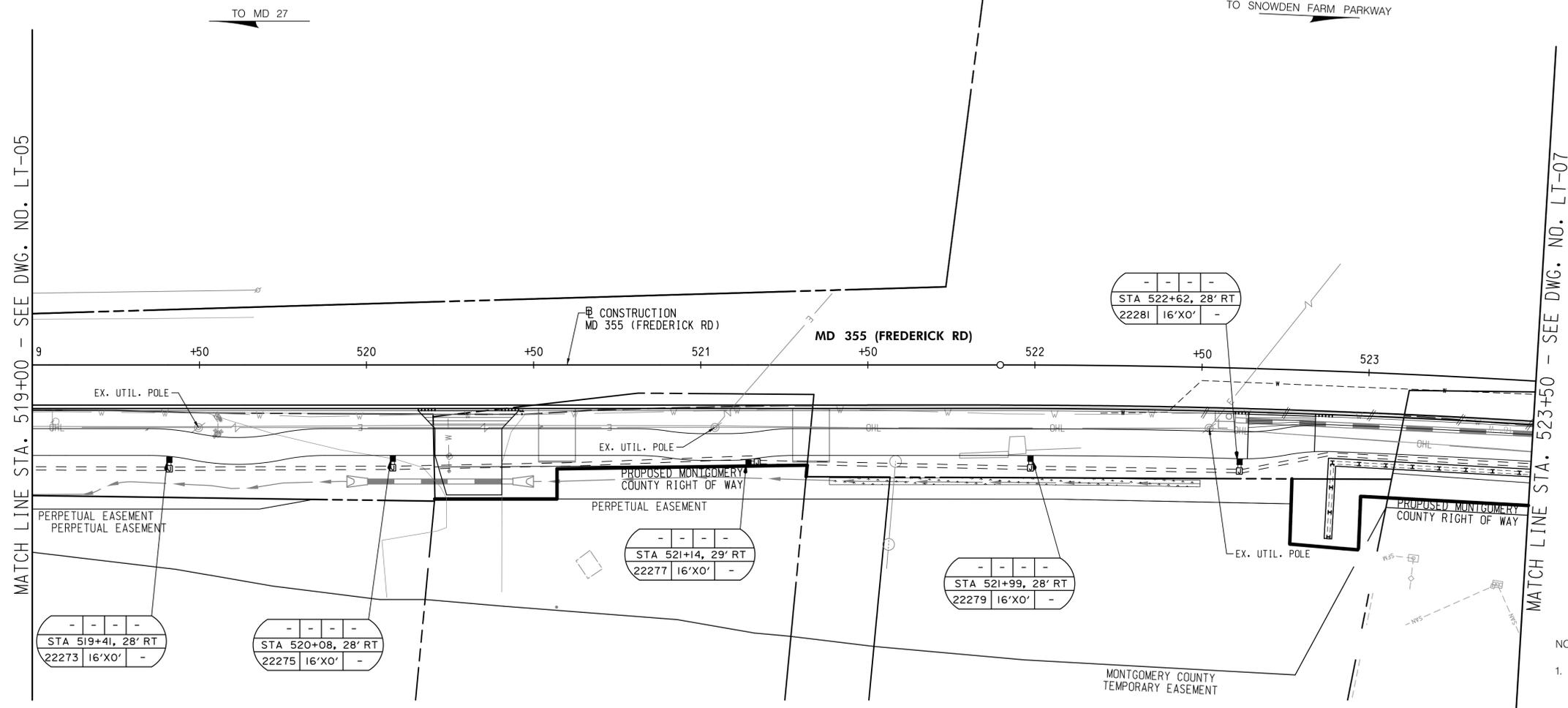
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**PLAN SHEET LT-05
LIGHTING PLANS
MD 355 - CLARKSBURG
SHARED USE PATH
STA. 514+50 TO STA. 519+00**

SCALE: 1" = 20' 02/2025

Project No. : C.I.P. PR. # 501744 SHEET 61 of 97



MATCH LINE STA. 519+00 - SEE DWG. NO. LT-05

MATCH LINE STA. 523+50 - SEE DWG. NO. LT-07

TO MD 27

TO SNOWDEN FARM PARKWAY

- NOTE:
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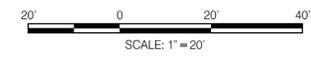
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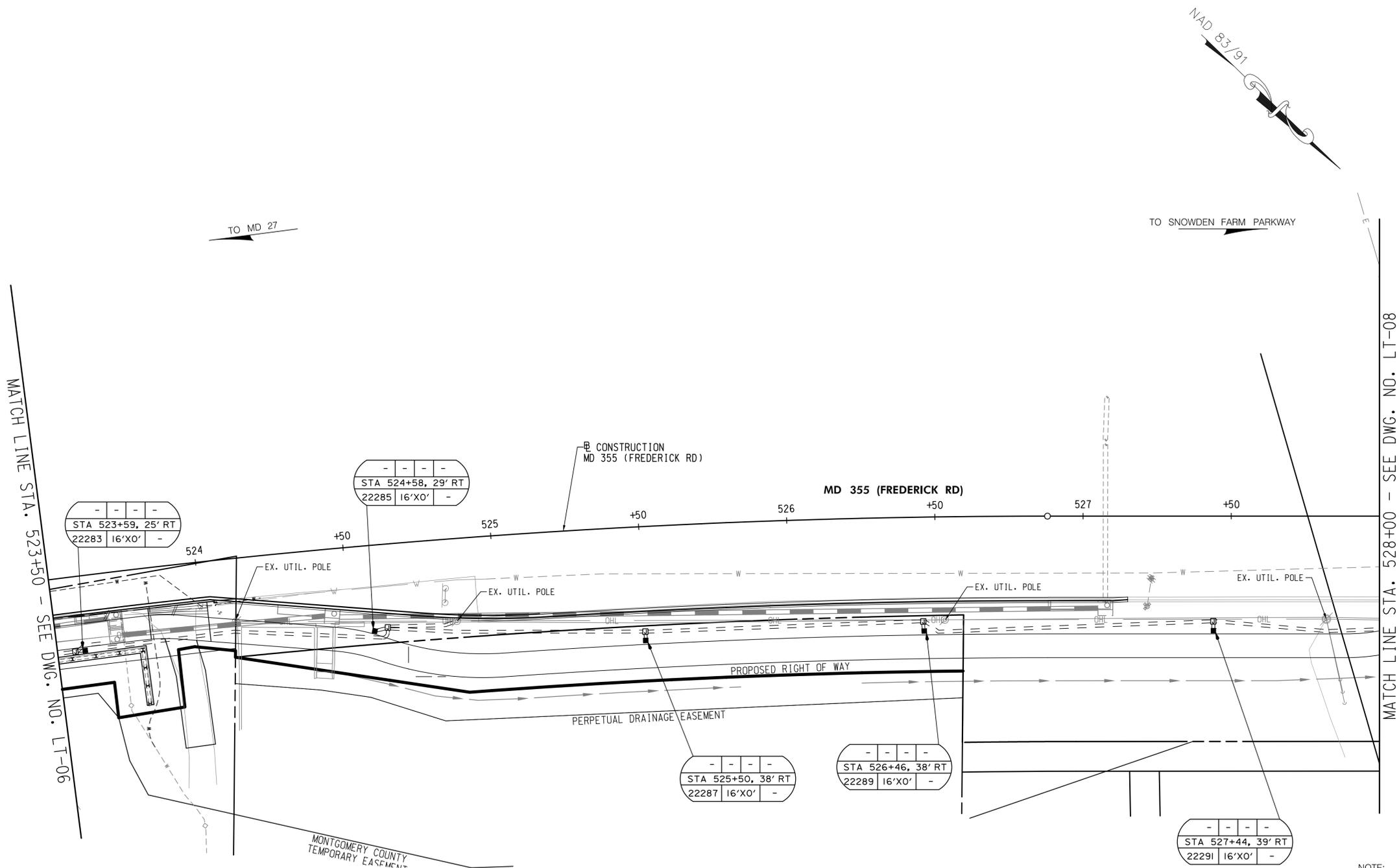
PLAN SHEET LT-06
LIGHTING PLANS
MD 355 - CLARKSBURG
SHARED USE PATH
STA. 519+00 TO STA. 523+50

SCALE: 1" = 20' 02/2025

Project No. : C.I.P. PR. # 501744 SHEET 62 of 97

MATCH LINE STA. 523+50 - SEE DWG. NO. LT-06

MATCH LINE STA. 528+00 - SEE DWG. NO. LT-08



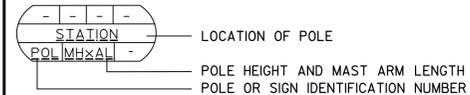
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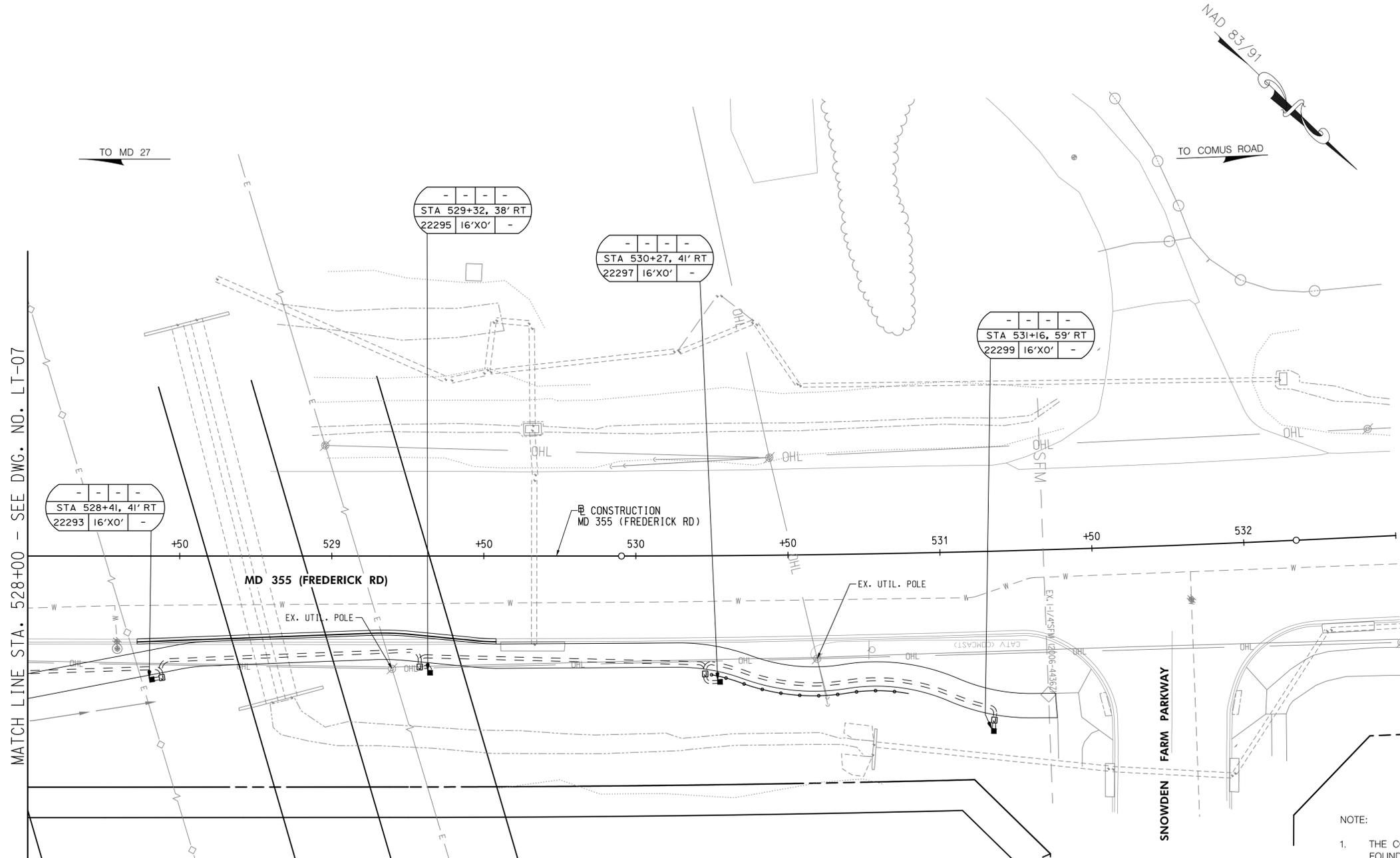
MONTGOMERY COUNTY
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PLAN SHEET LT-07
LIGHTING PLANS
MD 355 - CLARKSBURG
SHARED USE PATH
STA. 523+50 TO STA. 528+00
 SCALE: 1" = 20' 02/2025

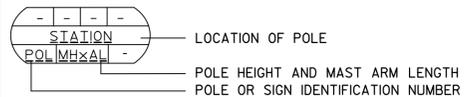


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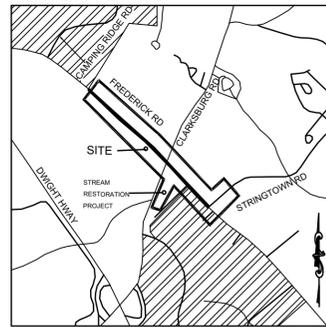
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**PLAN SHEET LT-08
 LIGHTING PLANS
 MD 355 - CLARKSBURG
 SHARED USE PATH
 STA. 528+00 TO STA. 531+37**

SCALE: 1" = 20' 02/2025
 Project No.: C.I.P. PR. # 501744 SHEET 64 of 97

CLARKSBURG SHARED USE PATH FINAL FOREST CONSERVATION PLAN - RESOLUTION PAGE



VICINITY MAP
1"=2000'



MCPB No. 20-078
Forest Conservation Plan No. MR2020018
Project Name: MD-355 Clarksburg Shared Use Path
Date of Hearing: July 30, 2020

AUG 17 2020

RESOLUTION

WHEREAS, under Montgomery County Code Chapter 22A, the Montgomery County Planning Board is authorized to review forest conservation plan applications; and

WHEREAS, on April 9, 2020, the Montgomery County Department of Transportation ("Applicant"), filed for approval of a forest conservation plan and a Mandatory Referral application for Construction of a shared use path along the east side of Frederick Road (MD 355) extending from Stringtown Road to Spire Street and then 467 feet north of Clarksburg Road (MD 121) to Snowden Farm Parkway, Clarksburg; 3.58 acres ("Subject Property"); CRT and E-200 Zones and Clarksburg East Environmental Overlay Zone; Clarksburg Master Plan & Hyattstown Special Study Area (1994) and 10 Mile Creek Area Limited Amendment Master Plan (2014) ("Master Plan") area; and

WHEREAS, Applicant's forest conservation plan application was designated Forest Conservation Plan No. MR2020018, MD-355 Clarksburg Shared Use Path ("Forest Conservation Plan" or "Application");¹ and

WHEREAS, following review and analysis of the Application by Planning Board Staff ("Staff") and other governmental agencies, Staff issued a memorandum to the Planning Board dated July 17, 2020 setting forth its analysis and recommendation for approval of the Application, subject to certain conditions ("Staff Report"); and

WHEREAS, on July 30, 2020, the Planning Board held a public hearing on the Application, and at the hearing the Planning Board heard testimony and received evidence submitted for the record on the Application; and

¹ Unless specifically indicated otherwise, the Board has reviewed the preliminary Forest Conservation Plan and all other conditions under which the Staff can approve the final Forest Conservation Plan without further Board action. Therefore, for purposes of this Resolution, whether or not indicated, the Board's action is with regard to the preliminary Forest Conservation Plan.

Approved as to
Legal Sufficiency by
MONTGOMERY COUNTY PLANNING BOARD
M-NCPPC Office of the General Counsel

MCPB No. 20-078
Forest Conservation Plan No. MR2020018
MD-355 Clarksburg Shared Use Path
Page 2

WHEREAS, at the hearing, the Planning Board voted to approve the Application subject to certain conditions, by the vote as certified below.

NOW, THEREFORE, BE IT RESOLVED that the Planning Board APPROVED Forest Conservation Plan No. MR2020018 on the Subject Property, subject to the following conditions:²

1. Applicant must submit a Final Forest Conservation Plan ("FFCP") to M-NCPPC Staff for review prior to issuance of a Sediment Control Permit.
2. The FFCP must be consistent with the final approved FFCP.
3. Prior to the initial planting acceptance inspection by the M-NCPPC Forest Conservation Inspection Staff, the Applicant must install permanent conservation easement signage along the perimeter of the conservation easements as shown on the FCP or as determined by the Forest Conservation Inspection Staff.
4. The Applicant must record a Category I Conservation Easement over all areas of forest planting as specified on the approved Forest Conservation Plan. The Category I Conservation Easement approved by the M-NCPPC Office of the General Counsel must be recorded in the Montgomery County Land Records by deed prior to the start of any demolition, clearing, or grading on the Subject Property. If the Applicant cannot provide a long-term protective agreement, they must provide the 0.48-acre planting requirement onsite as part of the SPA requirements and take the 0.48-acre forest conservation requirement to an offsite mitigation bank.
5. The Applicant must install the Afforestation/Reforestation plantings as shown on the approved FCP, within the first planting season following the release of the Sediment and Erosion Control Permit from the Montgomery County Department of Permitting Services for the Subject Property, or as directed by the M-NCPPC Forest Conservation Inspection Staff.
6. Within the first planting season following the release of the Sediment and Erosion Control Permit from the Montgomery County Department of Permitting Services for the Subject Property, the Applicant must install the variance tree mitigation plantings as shown on the FCP.
7. The Applicant must provide mitigation for the loss of trees per the approved variance in the form of Twenty-nine (29) native canopy trees with a minimum size of three (3) caliper inches. The trees must be clearly shown and labelled on the Final Forest Conservation Plan. The mitigation trees must be planted outside of any right-of-way, or utility easements, including stormwater management easements and not counted as part of the screening requirement under Division 6.5 of the Montgomery County Zoning Ordinance. The

² For the purpose of these conditions, the term "Applicant" shall also mean the developer, the owner, or any successor in interest to the terms of this approval.

MCPB No. 20-078
Forest Conservation Plan No. MR2020018
MD-355 Clarksburg Shared Use Path
Page 3

mitigation trees must be installed and accepted by M-NCPPC within one year of construction completion.

8. Prior to any demolition, clearing, grading or construction for this development Application, the Applicant must submit a five-year Maintenance and Management Agreement ("MMA") approved by the M-NCPPC Office of General Counsel. The MMA is required for all forest planting areas and landscape plantings credited toward meeting the requirements of the FCP.
9. Prior to any demolition, clearing, grading or construction for this development Application, the Applicant must record in the Land Records an M-NCPPC approved Certificate of Compliance to use an M-NCPPC approved off-site forest bank within the same watershed to satisfy the reforestation requirement for a total of 1.07 acres of mitigation credit. The offsite requirement may be met by purchasing from a mitigation bank elsewhere in the County, subject to Staff approval, if forest is unavailable for purchase within the same watershed.
10. The limits of disturbance shown on the final Sediment Control Plan must be consistent with the limits of disturbance shown on the Final Forest Conservation Plan.
11. The Applicant must comply with all tree protection and tree save measures shown on the approved Final Forest Conservation Plan. Tree save measures not specified on the Final Forest Conservation Plan may be required by the M-NCPPC forest conservation inspector.

BE IT FURTHER RESOLVED, that having given full consideration to the recommendations and findings of its Staff as presented at the hearing and as set forth in the Staff Report, which the Board hereby adopts and incorporates by reference (except as modified herein), and upon consideration of the entire record, the Planning Board FINDS, with the conditions of approval, that:

1. The Application satisfies all the applicable requirements of the Forest Conservation Law, Montgomery County Code, Chapter 22A and the protection of environmentally sensitive features.

A. Forest Conservation

The Board finds that as conditioned, the Forest Conservation Plan complies with the requirements of the Forest Conservation Law.

A Natural Resources Inventory and Forest Stand Delineation (NRI/FSI 420182000) was approved by Staff on February 8, 2019 and a Forest Conservation Plan for the Subject Property was submitted as part of the Mandatory Referral application. The Subject Property contains approximately 1.18 acres of forest. The Application proposes to remove approximately 1.18 acres of forest and retain no forest, which results in a forest planting requirement of 1.55 acres, which will be met as conditioned.

MCPB No. 20-078
Forest Conservation Plan No. MR2020018
MD-355 Clarksburg Shared Use Path
Page 4

B. Forest Conservation Variance

Section 22A-12(b)(3) of the Forest Conservation Law identifies certain individual trees as high priority for retention and protection ("Protected Trees"). Any impact to these Protected Trees, including removal or any disturbance within a Protected Tree's critical root zone ("CRZ"), requires a variance under Section 22A-12(b)(3) ("Variance"). Otherwise such resources must be left in an undisturbed condition.

This Application will require the removal or CRZ impact to 104 Protected Trees as identified in the Staff Report. In accordance with Section 22A-21(a), the Applicant has requested a Variance and the Board agreed that the Applicant would suffer unwarranted hardship by being denied reasonable and significant use of the Subject Property without the Variance.

The Board made the following findings necessary to grant the Variance:

1. Granting the Variance will not confer on the Applicant a special privilege that would be denied to other applicants.
Granting the variance will not confer a special privilege on the Applicant as the removal of the seventy-three trees is due to the location of the trees and necessary site design requirement. Therefore, Staff believes that the granting of this variance is not a special privilege that would be denied to other applicants.
2. The need for the Variance is not based on conditions or circumstances which are the result of the actions by the Applicant.
The requested variance is not based on conditions or circumstances which are the result of actions by the Applicant. The requested variance is based upon the existing site conditions and necessary design requirements of this project.
3. The need for the Variance is not based on a condition related to land or building use, either permitted or non-conforming, on a neighboring property.
The requested variance is a result of the existing conditions and not as a result of land or building use on a neighboring property.
4. Granting the Variance will not violate State water quality standards or cause measurable degradation in water quality.
The variance will not violate State water quality standards or cause measurable degradation in water quality. The Application proposes mitigation for the removal of these seventy-three trees by planting larger caliper trees on-site. Additionally, stormwater requirements

MCPB No. 20-078
Forest Conservation Plan No. MR2020018
MD-355 Clarksburg Shared Use Path
Page 5

to the maximum extent possible are being met through the stream restoration project, improving stream health and allowing for improved ecological benefits in the area. Therefore, The Planning Board concurs that the project will not violate State water quality standards or cause measurable degradation in water quality.

Mitigation for the Variance is at a rate that approximates the form and function of the Protected Tree removed. The Board approved replacement of the Protected Tree at a ratio of approximately one inch for every four inches removed. This results in a total mitigation of 85 inches of replanted trees. In this case, the Applicant proposes to plant 29 3" caliper overstory trees native to the Piedmont Region of Maryland on the Property outside of any rights-of-way and outside of any utility easements. Additionally, no mitigation is required for the thirty-one trees that are impacted, but retained.

BE IT FURTHER RESOLVED, that this Resolution constitutes the written opinion of the Planning Board in this matter, and the date of this Resolution is AUG 17 2020 (which is the date that this Resolution is mailed to all parties of record); and

BE IT FURTHER RESOLVED, that any party authorized by law to take an administrative appeal must initiate such an appeal within thirty days of the date of this Resolution, consistent with the procedural rules for the judicial review of administrative agency decisions in Circuit Court (Rule 7-203, Maryland Rules).

* * * * *

CERTIFICATION

This is to certify that the foregoing is a true and correct copy of a resolution adopted by the Montgomery County Planning Board of the Maryland-National Capital Park and Planning Commission on motion of Commissioner Verma, seconded by Vice Chair Fani-González, with Chair Anderson, Vice Chair Fani-González, and Commissioners Patterson and Verma voting in favor, and Commissioner Cicly temporarily absent at its regular meeting held on Thursday, July 30, 2020, in Silver Spring, Maryland.

[Signature]
Casey Anderson, Chair
Montgomery County Planning Board

DEVELOPER'S CERTIFICATE

The Undersigned agrees to execute all the features of the Approved Final Forest Conservation Plan No. MR2020018 including, financial bonding, forest planting, maintenance, and all other applicable agreements.

Developer's Name: MONTGOMERY COUNTY DEPARTMENT OF TRANSPORTATION
Printed Company Name:

Contact Person or Owner: YASAMIN ESMAILI - PROJECT MANAGER
Printed Name:
DEPT. OF TRANSPORTATION, DIVISION OF TRANSPORTATION
ENGINEERING - 100 EDISON PARK DRIVE, 4TH FLOOR,
GAITHERSBURG, MD 20878

Address: 245-777-7228
Yasamin.Esmaili@MontgomeryCountyMD.gov

Phone and Email:

Signature: *Yasamin Esmaili*

CERTIFICATION OF QUALIFIED PROFESSIONAL

I HEREBY CERTIFY THAT THE PLAN SHOWN HEREON HAS BEEN PREPARED IN ACCORDANCE WITH MARYLAND STATE, MNCPPC AND MONTGOMERY COUNTY FOREST CONSERVATION LAWS.

9.2.2022
DATE

[Signature]
MICHAEL A. NORTON
MDNR / COMAR 08.19.06.01
QUALIFIED PROFESSIONAL

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

RECOMMENDED FOR APPROVAL

Chief, Design Section
APPROVED _____ Date _____

Chief, Division of Engineering Services
APPROVED _____ Date _____

Designed by : B.P. Drawn by : B.P. Checked by : M.N.

PLAN SHEET L-1.1A
FINAL FOREST
CONSERVATION PLAN OVERALL
MD 355 - CLARKSBURG
SHARED USE PATH

09/2021

Project No. : C.I.P. PR. #501744 SHEET 65 of 97

WATER CLASS	I,P/IV,P	WATERSHED	LITTLE SENECA CREEK	FEMA FLOODPLAIN MAP PANEL #	24031C 0160D
TRIBUTARY	ROCK CREEK			ADC MAP PAGE	9
TAX MAP	EW341,EW121	200 SHEET	233NW13, 232NW13, 233NW14	GRID	B-3, C-3,4
SCALE	AS SHOWN	DATE	MARCH 2021	PROJ. NO.	15-138
				SHEET NO.	L-1.0

DATUM: NAD 83/91 HORIZONTAL NAVD 88 VERTICAL			
NO.	REVISION	DATE	BY

DRILL HOLES

DRILL HOLES

DRILL HOLES

MONTGOMERY PLANNING DEPARTMENT

Certified Plan - MR2020018

APPROVAL

10/28/22

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

The property owner is responsible for ensuring all tree protection measures are performed in accordance with the approved final forest conservation plan or tree save plan, and as modified in the field by a Planning Department Forest Conservation Inspector.

Pre-Construction

- 1. An on-site pre-construction meeting is required after the limits of disturbance have been staked and flagged and before any land disturbance.
2. The property owner must arrange for the meeting and following people should must participate at the pre-construction meeting: the property owner or their representative, construction superintendent, International Society of Arboriculture (ISA) certified arborist/Maryland Licensed Tree Expert (representing owner) that will implement the tree protection measures.

Page 1 of 3 February 2017

- 3. A Maryland Licensed Tree expert must perform, or directly supervise, the implementation of all stress reduction measures. Documentation of the process (including photographs) may be required by the Forest Conservation Inspector, and will be determined at the pre-construction meeting.
4. Temporary tree protection devices must be installed per the approved Forest Conservation Plan, Exemption Plan, or Tree Save Plan and prior to any land disturbance.

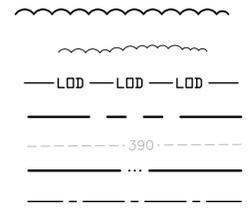
During Construction

- 7. Periodic inspections will be made by the Forest Conservation Inspector. Corrections and repairs to tree protection devices must be completed within the timeframe given by the Inspector.
8. The property owner must immediately notify the Forest Conservation Inspector of any damage to trees, forests, understory, ground cover, and any other undisturbed areas shown on the approved plan.

Post-Construction

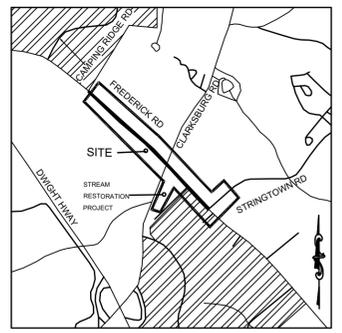
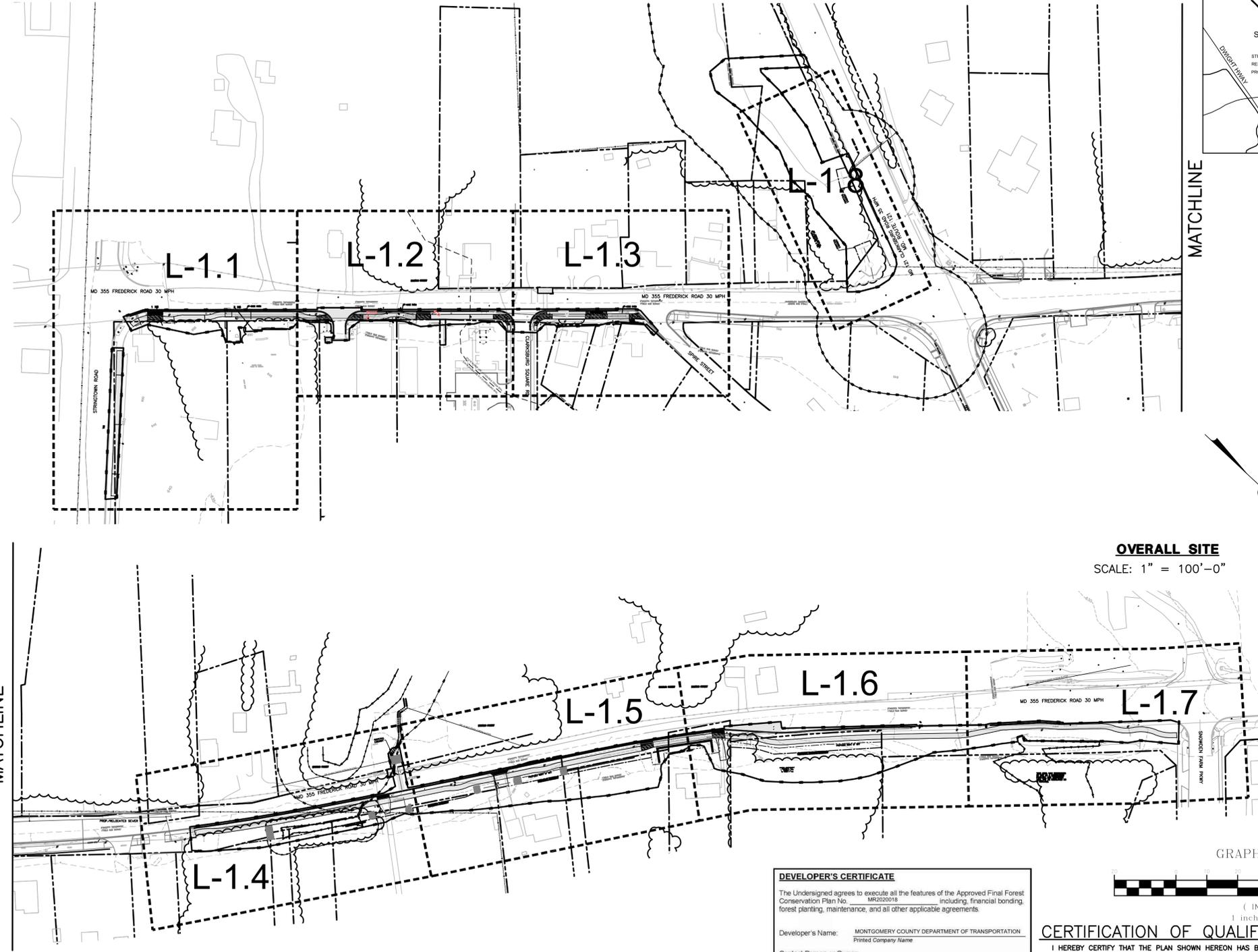
- 9. After construction is completed, but before tree protection devices have been removed, the property owner must request a final inspection with the Forest Conservation Inspector. At the final inspection, the Forest Conservation Inspector may require additional corrective measures, which may include: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

Page 2 of 3 February 2017



LEGEND

- FOREST TREELINE
SCRUB AREA/SCREENING TREES/NON-FOREST CANOPY
LIMITS OF DISTURBANCE
PROPERTY BOUNDARY
EX. CONTOUR
EXISTING STREAM
EXISTING EASEMENT
PROPOSED SHARED USE PATH
WETLANDS
125' STREAM BUFFER
HISTORIC DISTRICT



VICINITY MAP 1"=2000'

MATCHLINE

OVERALL SITE SCALE: 1" = 100'-0"

GRAPHIC SCALE



(IN FEET) 1 inch = 20 ft.

CERTIFICATION OF QUALIFIED PROFESSIONAL

I HEREBY CERTIFY THAT THE PLAN SHOWN HEREON HAS BEEN PREPARED IN ACCORDANCE WITH MARYLAND STATE, MNC&PC AND MONTGOMERY COUNTY FOREST CONSERVATION LAWS.

9.2.2022 DATE

MICHAEL A. NORTON MONTGOMERY COUNTY REGISTERED PROFESSIONAL QUALIFIED PROFESSIONAL

DEVELOPER'S CERTIFICATE

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Developer's Name: MONTGOMERY COUNTY DEPARTMENT OF TRANSPORTATION
Contact Person or Owner: YASAMIN ESMAILI - PROJECT MANAGER
Address: DEPT. OF TRANSPORTATION, DIVISION OF TRANSPORTATION ENGINEERING - 100 EDISON PARK DRIVE, 4TH FLOOR, GAITHERSBURG, MD 20878
Phone and Email: 240-777-7228, Yasamin.Esmaili@MontgomeryCountyMD.gov
Signature: Yasamin Esmaili

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

RECOMMENDED FOR APPROVAL

Chief, Design Section
APPROVED
Chief, Division of Engineering Services

Designed by : B.P. Drawn by : B.P. Checked by : M.N.

PLAN SHEET L-1.1A FINAL FOREST CONSERVATION PLAN OVERALL MD 355 - CLARKSBURG SHARED USE PATH

Project No. : C.I.P. PR. #501744 SHEET 66 of 97

NORTON LAND DESIGN LANDSCAPE ARCHITECTURE + ENVIRONMENTAL PLANNING 5146 DORSEY HALL DRIVE, 2ND FLOOR ELLICOTT CITY, MD 21042 BALT.443.542.9199 x101 DC 240.342.2329x101 WWW.NORTONLANDDESIGN.COM

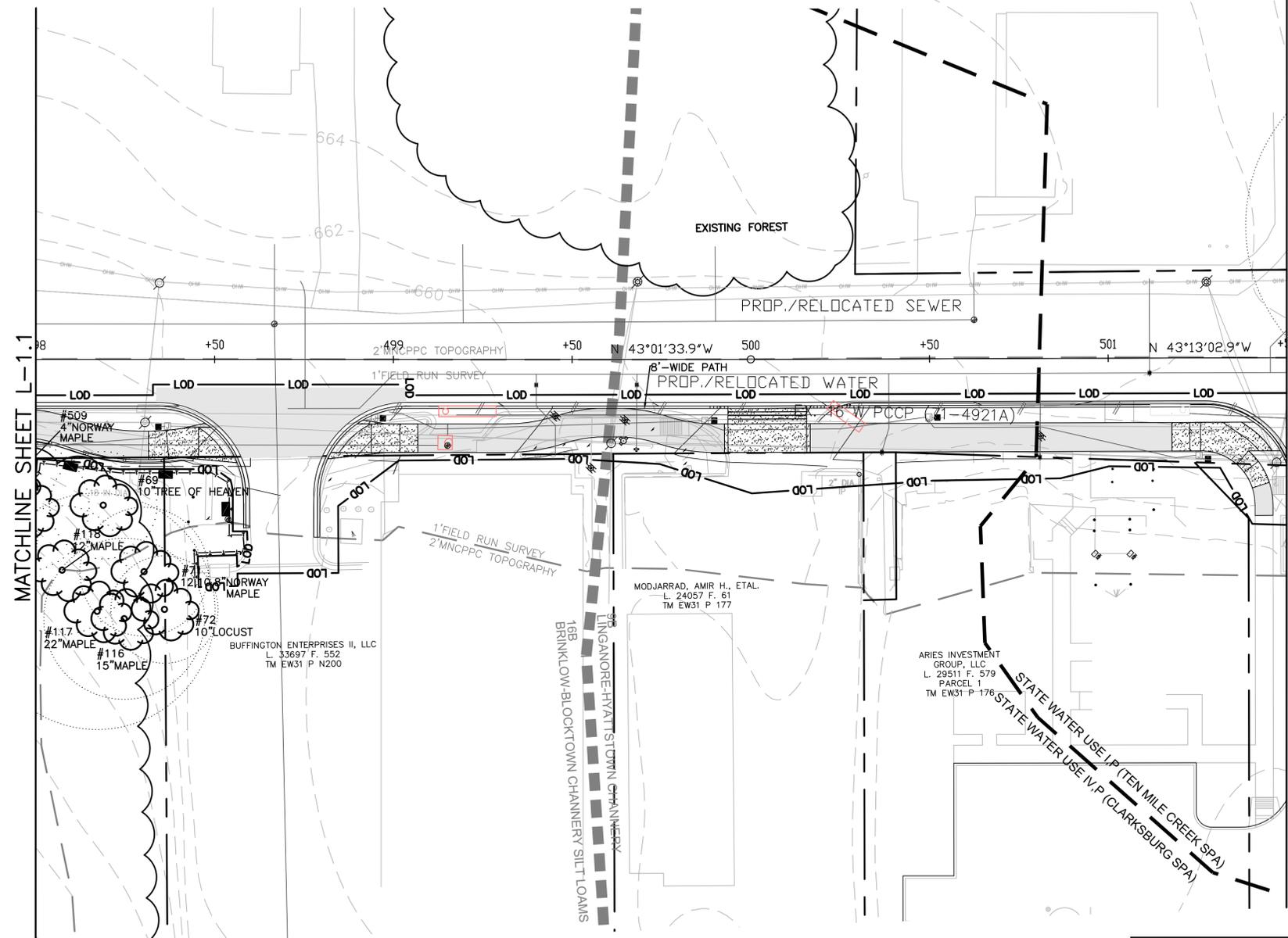
Table with 4 columns: WATER CLASS (I,P/IV,P), WATERSHED (LITTLE SENECA CREEK), FEMA FLOODPLAIN MAP PANEL # (24031C 0160D), TAX MAP (EW341,EW121), 200 SHEET (233NW13, 233NW14), ADC MAP PAGE (9), GRID (B-3, C-3,4), SCALE (AS SHOWN), DATE (MARCH 2021), PROJ. NO. (15-138), SHEET NO. (L-1.1A)

Table with 4 columns: NO., REVISION, DATE, BY. DATUM: NAD 83/91 HORIZONTAL NAVD 88 VERTICAL.

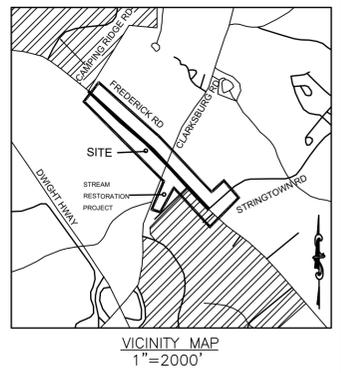
DRILL HOLES

DRILL HOLES

DRILL HOLES



MATCHLINE SHEET L-1.3

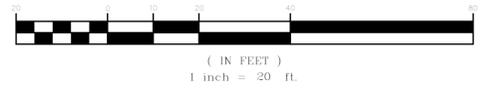


LEGEND

- EXISTING TREE >6" AND <24" DBH AND CRITICAL ROOT ZONE
- #1 14" RED OAK
- #2 26" RED OAK
- #3 32" RED OAK
- FOREST TREELINE
- SCRUB AREA/SCREENING TREES/NON-FOREST CANOPY
- LIMITS OF DISTURBANCE
- PROPOSED GRADE
- PROPERTY BOUNDARY
- PROPOSED RIGHT-OF-WAY
- EX. CONTOUR
- EXISTING STREAM
- EXISTING EASEMENT
- TREE TO BE REMOVED
- TREE PROTECTION FENCE (TEMPORARY)
- TEMPORARY COMBINED ROOT PRUNE TRENCH/TREE PROTECTION FENCE
- TEMPORARY TREE PROTECTION SIGNAGE (APPROX. 20' O.C.)
- FOREST CLEARING AREA
- PROPOSED SHARED USE PATH
- PROPOSED LIGHT POLES
- PROPOSED MITIGATION TREE

*NOTE: TREE CONSERVATION MEASURES, SUCH AS ROOT PRUNING, BRANCH PRUNING, TREE FERTILIZING, AND OTHER MEASURES PRESCRIBED BY THE PROJECT'S ARBORIST AT THE TIME OF THE LOD LAYOUT AND/OR INSTALLATION OF E&S MEASURES, MAY BE REQUIRED ALONG THE LINE OF CUT/FILL. DECISIONS ON TREE PROTECTION MEASURES MUST BE AGREED UPON BY A M-NCPPC FOREST CONSERVATION INSPECTOR BEFORE INSTALLATION.

GRAPHIC SCALE



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 Printed Company Name

Contact Person or Owner: YASAMIN ESMAILI - PROJECT MANAGER
 Printed Name
 DEPT. OF TRANSPORTATION, DIVISION OF TRANSPORTATION ENGINEERING - 100 EDISON PARK DRIVE, 4TH FLOOR, GAITHERSBURG, MD 20878

Address: 240-777-7228
 Phone and Email: Yasamin.Esmaili@MontgomeryCountyMD.gov

Signature: *Yasamin Esmaili*

CERTIFICATION OF QUALIFIED PROFESSIONAL

I HEREBY CERTIFY THAT THE PLAN SHOWN HEREON HAS BEEN PREPARED IN ACCORDANCE WITH MARYLAND STATE, MNC&PC AND MONTGOMERY COUNTY FOREST CONSERVATION LAWS.

9.2.2022
 DATE

Michael A. Norton
 MICHAEL A. NORTON
 MDNR / COMAR 08.19.06.01
 QUALIFIED PROFESSIONAL

NORTON LAND DESIGN
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WATER CLASS	I,P/IV,P	WATERSHED	LITTLE SENECA CREEK	FEMA FLOODPLAIN MAP PANEL #	24031C 0160D
TRIBUTARY	ROCK CREEK	ADC MAP PAGE	9	GRID	B-3, C-3,4
TAX MAP	EW341,EW121	ZONING	233NW13, 233NW14	PROJ. NO.	15-138
SCALE	AS SHOWN	DATE	MARCH 2021	SHEET NO.	L-1.2

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 : B.P. Drawn by : B.P. Checked by : M.N.

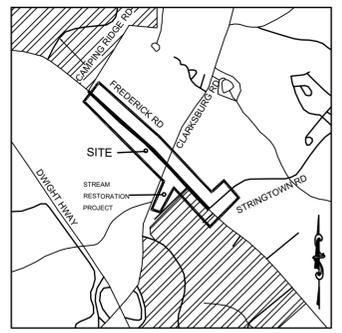
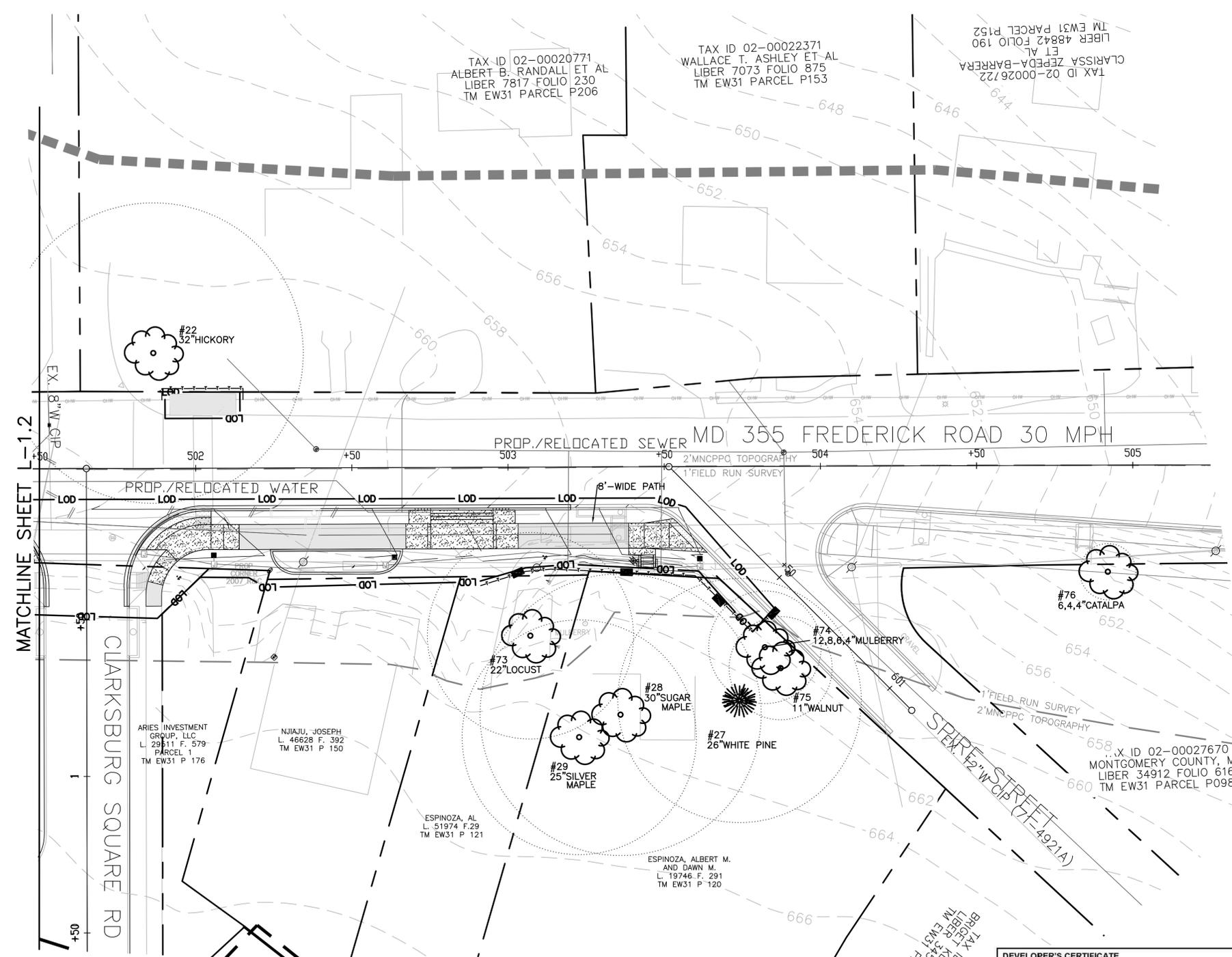
PLAN SHEET L-1.2
FINAL FOREST CONSERVATION PLAN
MD 355 - CLARKSBURG SHARED USE PATH

Project No. : C.I.P. PR. #501744 SHEET 68 of 97

DRILL HOLES

DRILL HOLES

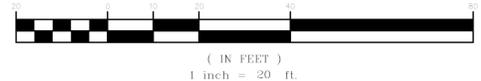
DRILL HOLES



- LEGEND**
- EXISTING TREE >6" AND <24" DBH AND CRITICAL ROOT ZONE
 - 14" RED OAK
 - #1 26" RED OAK EXISTING SIGNIFICANT TREE >24" AND <30" DBH WITH TAG NUMBER
 - #2 32" RED OAK EXISTING SPECIMEN TREE ≥30" DBH WITH TAG NUMBER
 - FOREST TREELINE
 - SCRUB AREA/SCREENING TREES/NON-FOREST CANOPY
 - LIMITS OF DISTURBANCE
 - 652 PROPOSED GRADE
 - PROPERTY BOUNDARY
 - PROPOSED RIGHT-OF-WAY
 - EX. CONTOUR
 - EXISTING STREAM
 - EXISTING EASEMENT
 - HISTORIC DISTRICT
 - TREE TO BE REMOVED
 - TREE PROTECTION FENCE (TEMPORARY)
 - TEMPORARY COMBINED ROOT PRUNE TRENCH/TREE PROTECTION FENCE
 - TEMPORARY TREE PROTECTION SIGNAGE (APPROX. 20' O.C.)
 - FOREST CLEARING AREA
 - PROPOSED SHARED USE PATH
 - PROPOSED LIGHT POLES
 - 16D BRINKLOW SOIL BOUNDARY
 - 2UB GLENELG
 - PROPOSED MITIGATION TREE

*NOTE: TREE CONSERVATION MEASURES, SUCH AS ROOT PRUNING, BRANCH PRUNING, TREE FERTILIZING, AND OTHER MEASURES PRESCRIBED BY THE PROJECT'S ARBORIST AT THE TIME OF THE LOD LAYOUT AND/OR INSTALLATION OF E&S MEASURES, MAY BE REQUIRED ALONG THE LINE OF CUT/FILL. DECISIONS ON TREE PROTECTION MEASURES MUST BE AGREED UPON BY A M-NCPPC FOREST CONSERVATION INSPECTOR BEFORE INSTALLATION.

GRAPHIC SCALE



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 Contact Person or Owner: YASAMIN ESMALI - PROJECT MANAGER
 Printed Name:
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 Address:
 Phone and Email: 240-777-7226 / Yasamin.Esmali@MontgomeryCountyMD.gov
 Signature: *Yasamin Esmali*

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9.2.2022
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Michael A. Norton
 MICHAEL A. NORTON
 MDNR / COMAR 08.19.06.01
 QUALIFIED PROFESSIONAL

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.P. Drawn by: B.P. Checked by: M.N.

PLAN SHEET L-1.3
FINAL FOREST CONSERVATION PLAN
MD 355 - CLARKSBURG SHARED USE PATH

Project No.: C.I.P. PR. #501744 SHEET 69 of 97

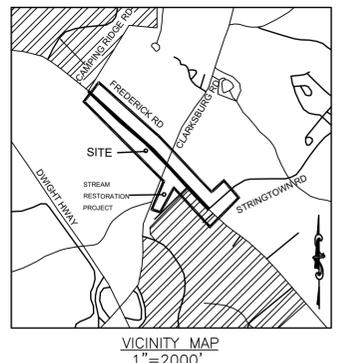
WATER CLASS I,P/IV,P	WATERSHED LITTLE SENECA CREEK	FEMA FLOODPLAIN MAP PANEL # 24031C 0160D
TRIBUTARY ROCK CREEK		
TAX MAP EW341,EW121	200 SHEET 232NW13, 233NW13	ADC MAP PAGE 9 GRID B-3, C-3,4
SCALE AS SHOWN	DATE MARCH 2021	PROJ. NO. 15-138
		SHEET NO. L-1.3

DATUM: NAD 83/91 HORIZONTAL NAVD 88 VERTICAL			
NO.	REVISION	DATE	BY

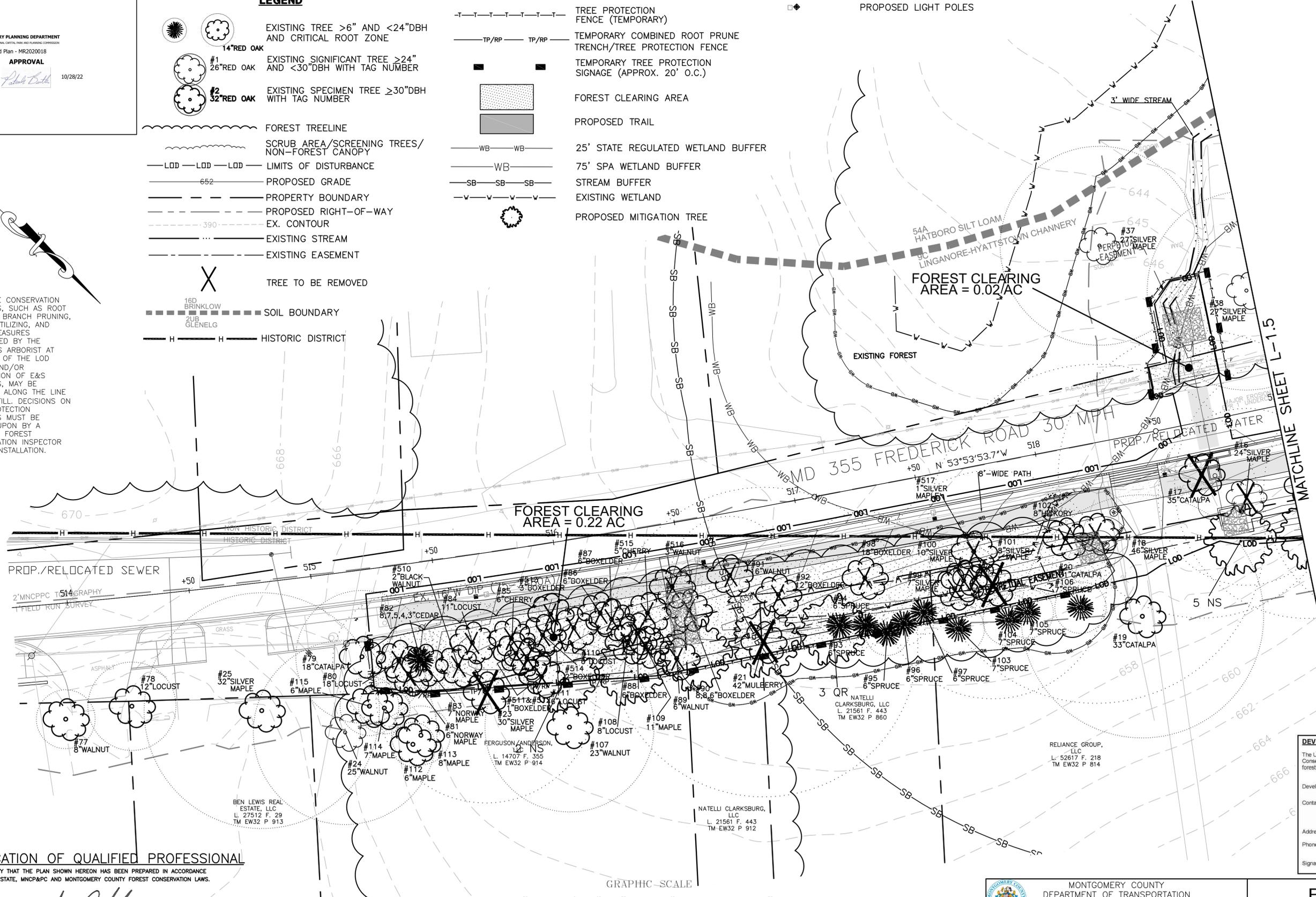
LEGEND

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- EX. CONTOUR
- EXISTING STREAM
- EXISTING EASEMENT
- TREE TO BE REMOVED
- SOIL BOUNDARY
- HISTORIC DISTRICT
- TP/TP TP/TP
- FOREST CLEARING AREA
- PROPOSED TRAIL
- 25' STATE REGULATED WETLAND BUFFER
- 75' SPA WETLAND BUFFER
- STREAM BUFFER
- EXISTING WETLAND
- PROPOSED MITIGATION TREE
- PROPOSED LIGHT POLES

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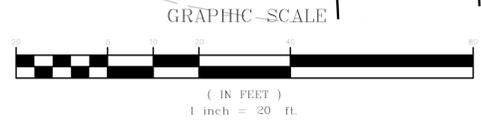
DRILL HOLES



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WATER CLASS	I,P/IV,P	WATERSHED	LITTLE SENECA CREEK	FEMA FLOODPLAIN MAP PANEL #	24031C 0160D
TRIBUTARY	ROCK CREEK	200 SHEET	233NW13 233NW12	ADC MAP PAGE	9 CRID. B-3, C-3,4
TAX MAP	EW341,EW121	SCALE	AS SHOWN	DATE	MARCH 2021
PROJ. NO.	15-138	SHEET NO.	L-1.4		

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	Date
Chief, Design Section	
APPROVED	
Chief, Division of Engineering Services	Date
Designed by :	B.P.
Drawn by :	B.P.
Checked by :	M.N.

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 Phone and Email: 240-777-7229 / Yasamin.Esmaili@MontgomeryCountyMD.gov
 Signature: *Yasamin Esmaili*

PLAN SHEET L-1.4
FINAL FOREST CONSERVATION PLAN
MD 355 - CLARKSBURG
SHARED USE PATH

DRILL HOLES

DRILL HOLES

DRILL HOLES

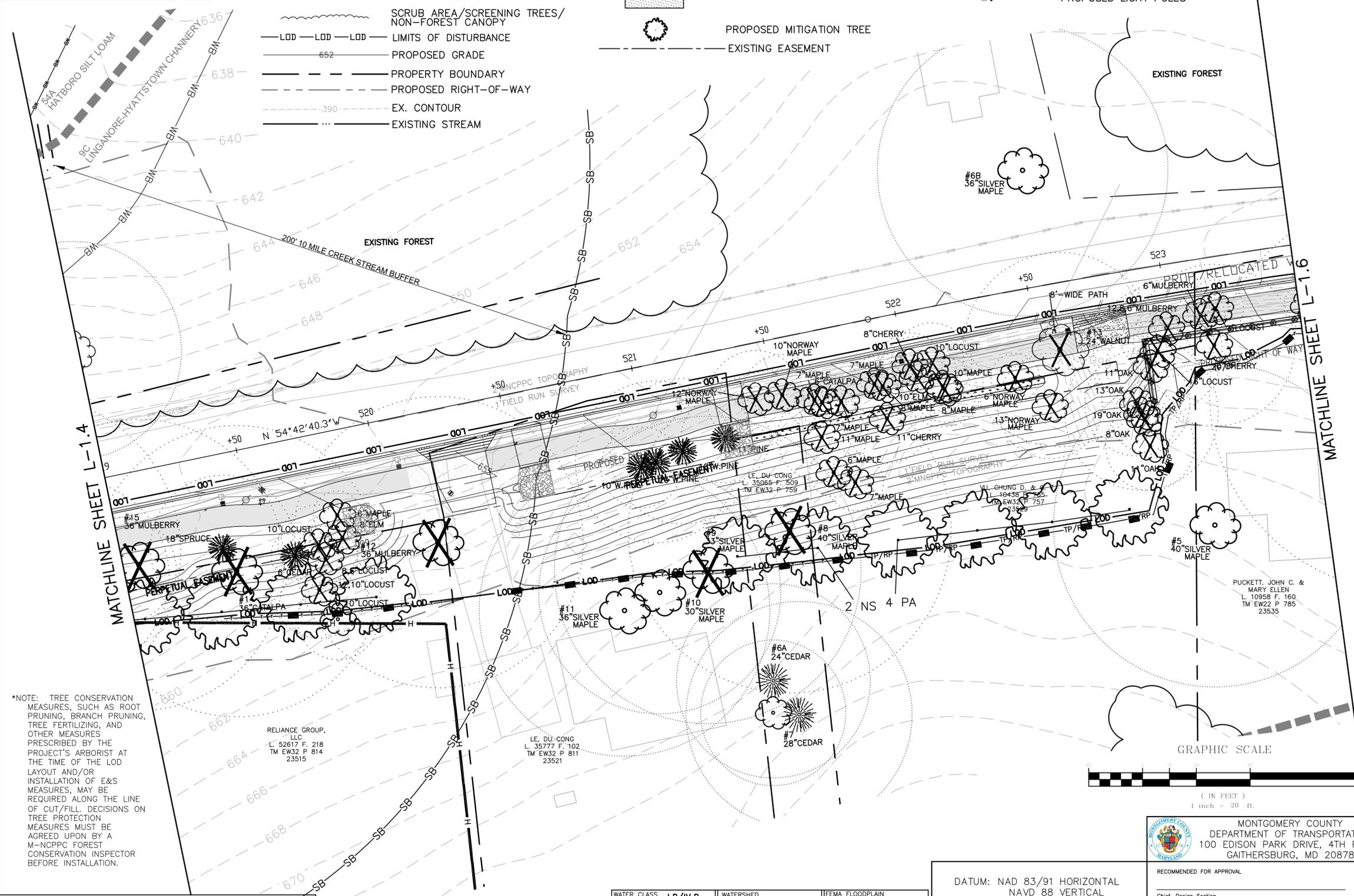
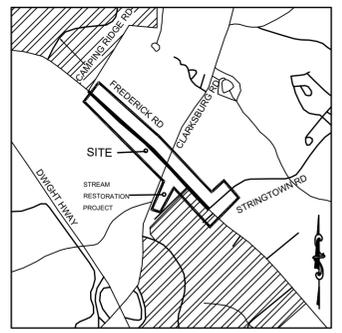
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- SCRUB AREA/SCREENING TREES/NON-FOREST CANOPY
- LOD LOD LOD LIMITS OF DISTURBANCE
- 652 PROPOSED GRADE
- PROPERTY BOUNDARY
- PROPOSED RIGHT-OF-WAY
- 390 EX. CONTOUR
- EXISTING STREAM

- TREE TO BE REMOVED
- TREE PROTECTION FENCE (TEMPORARY)
- TEMPORARY COMBINED ROOT PRUNE TRENCH/TREE PROTECTION FENCE
- TEMPORARY TREE PROTECTION SIGNAGE (APPROX. 20' O.C.)
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- PROPOSED SHARED USE PATH
- HISTORIC DISTRICT
- 25' STATE REGULATED WETLAND BUFFER
- 75' SPA WETLAND BUFFER
- STREAM BUFFER
- EXISTING WETLAND
- PROPOSED LIGHT POLES

- 16D BRINKLOW 2UB GLENELG SOIL BOUNDARY

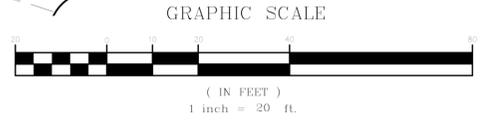


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RELIANCE GROUP, LLC
 L. 52617 F. 218
 TM EW32 P 814
 23515

LE. DU CONG
 L. 35777 F. 102
 TM EW32 P 811
 23521

PUCKETT, JOHN C. &
 MARY ELLEN
 L. 10958 F. 160
 TM EW22 P 785
 23535



DEVELOPER'S CERTIFICATE

The Undersigned agrees to execute all the features of the Approved Final Forest Conservation Plan No. MR2020018 including, financial bonding, forest planting, maintenance, and all other applicable agreements.

Developer's Name: MONTGOMERY COUNTY DEPARTMENT OF TRANSPORTATION
 Printed Company Name

Contact Person or Owner: YASAMIN ESMAILI - PROJECT MANAGER
 DEPT. OF TRANSPORTATION, DIVISION OF TRANSPORTATION ENGINEERING - 100 EDISON PARK DRIVE, 4TH FLOOR, GAITHERSBURG, MD 20878

Address: 240-777-7228
 Phone and Email: Yasamin.Esmaili@MontgomeryCountyMD.gov

Signature: *Yasamin Esmaili*

CERTIFICATION OF QUALIFIED PROFESSIONAL
 I HEREBY CERTIFY THAT THE PLAN SHOWN HEREON HAS BEEN PREPARED IN ACCORDANCE WITH MARYLAND STATE, MNC&PC AND MONTGOMERY COUNTY FOREST CONSERVATION LAWS.

9.2.2022
 DATE

M.A. Norton
 MICHAEL A. NORTON
 MDNR / COMAR 08.19.06.01
 QUALIFIED PROFESSIONAL

NORTON LAND DESIGN
 LANDSCAPE ARCHITECTURE + ENVIRONMENTAL PLANNING
 5146 DORSEY HALL DRIVE, 2ND FLOOR ELLICOTT CITY, MD 21042
 BALT.443.542.9199 x101 DC 240.342.2329x101 WWW.NORTONLANDDESIGN.COM

WATER CLASS I,P/IV,P	WATERSHED LITTLE SENECA CREEK	FEMA FLOODPLAIN MAP PANEL # 24031C 0160D
TRIBUTARY ROCK CREEK	2008 SHEET 232NW13 233NW13	ADC MAP PAGE 9 GRID B-3,4
TAX MAP EW341,EW121	SCALE AS SHOWN	DATE MARCH 2021
PROJ. NO. 15-138	SHEET NO. L-1.5	

DATUM: NAD 83/91 HORIZONTAL NAVD 88 VERTICAL	RECOMMENDED FOR APPROVAL
Chief, Design Section	Date
APPROVED	
Chief, Division of Engineering Services	Date
Designed by: B.P.	Drawn by: B.P.
Checked by: M.N.	

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

PLAN SHEET L-1.5
FINAL FOREST CONSERVATION PLAN
MD 355 - CLARKSBURG
SHARED USE PATH

DRILL HOLES

DRILL HOLES

DRILL HOLES

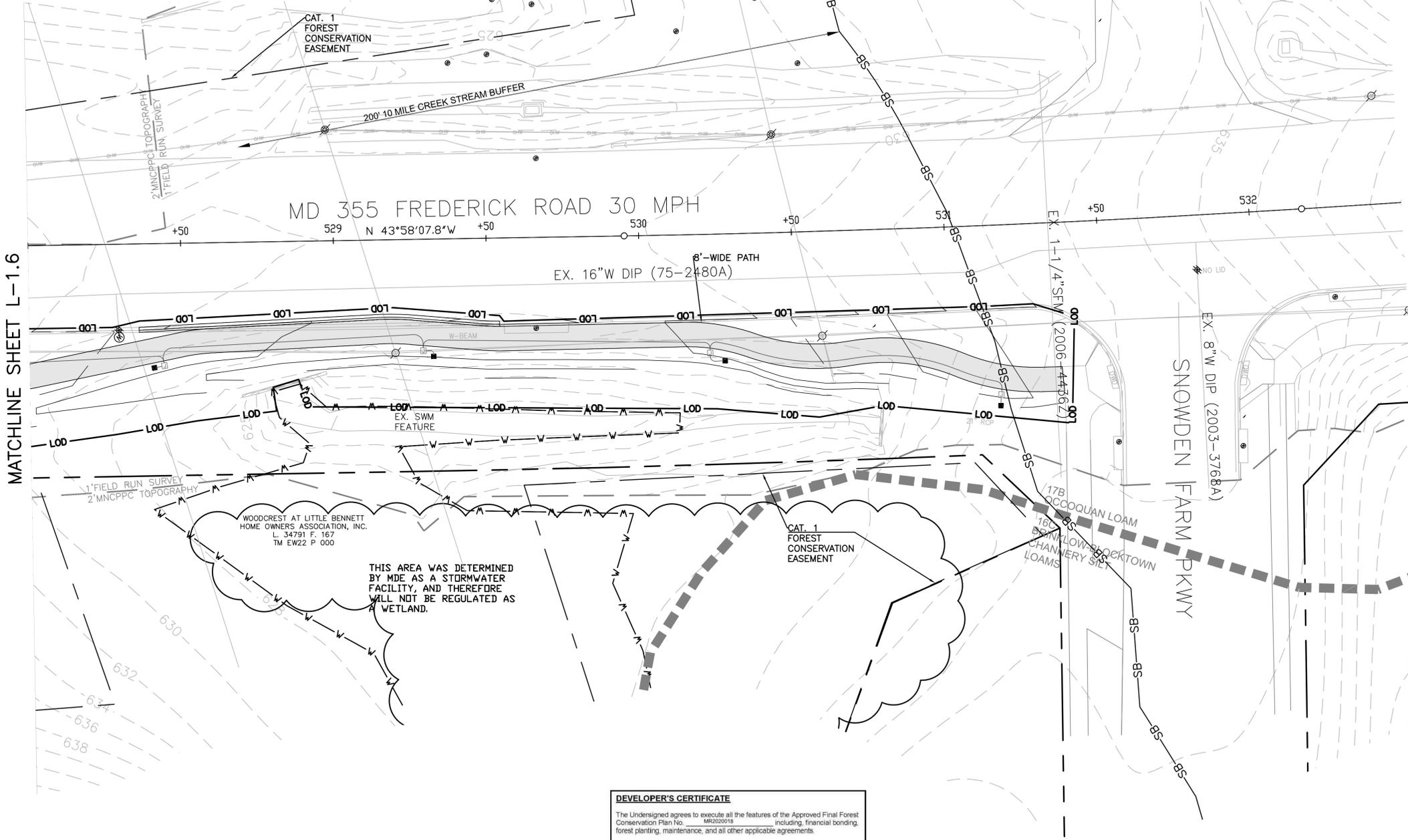
MONTGOMERY PLANNING DEPARTMENT

Certified Plan - MR2020018

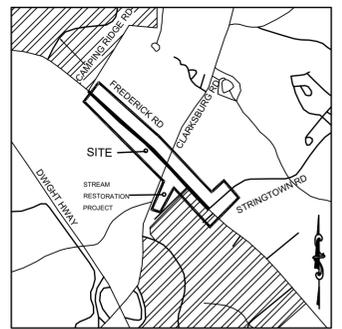
APPROVAL

10/28/22

*NOTE: TREE CONSERVATION MEASURES, SUCH AS ROOT PRUNING, BRANCH PRUNING, TREE FERTILIZING, AND OTHER MEASURES PRESCRIBED BY THE PROJECT'S ARBORIST AT THE TIME OF THE LAYOUT AND/OR INSTALLATION OF E&S MEASURES, MAY BE REQUIRED ALONG THE LINE OF CUT/FILL. DECISIONS ON TREE PROTECTION MEASURES MUST BE AGREED UPON BY A M-NCPPC FOREST CONSERVATION INSPECTOR BEFORE INSTALLATION.



MATCHLINE SHEET L-1.6



VICINITY MAP 1"=2000'

LEGEND

- EXISTING TREE >6" AND <24"DBH AND CRITICAL ROOT ZONE
#1 26"RED OAK EXISTING SIGNIFICANT TREE >24" AND <30"DBH WITH TAG NUMBER
#2 32"RED OAK EXISTING SPECIMEN TREE >=30"DBH WITH TAG NUMBER
FOREST TREELINE
SCRUB AREA/SCREENING TREES/NON-FOREST CANOPY
LIMITS OF DISTURBANCE
PROPOSED GRADE
PROPERTY BOUNDARY
PROPOSED RIGHT-OF-WAY
EX. CONTOUR
EXISTING STREAM
EXISTING EASEMENT
TREE TO BE REMOVED
TREE PROTECTION FENCE (TEMPORARY)
TEMPORARY COMBINED ROOT PRUNE TRENCH/TREE PROTECTION FENCE
TEMPORARY TREE PROTECTION SIGNAGE (APPROX. 20' O.C.)
FOREST CLEARING AREA
PROPOSED SHARED USE PATH
25' STATE REGULATED WETLAND BUFFER
75' SPA WETLAND BUFFER
STREAM BUFFER
EXISTING WETLAND
PROPOSED LIGHT POLES
SOIL BOUNDARY
PROPOSED MITIGATION TREE

CERTIFICATION OF QUALIFIED PROFESSIONAL

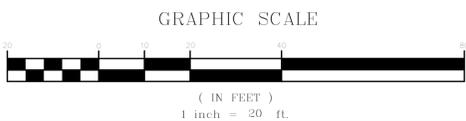
I HEREBY CERTIFY THAT THE PLAN SHOWN HEREON HAS BEEN PREPARED IN ACCORDANCE WITH MARYLAND STATE, MNC&PC AND MONTGOMERY COUNTY FOREST CONSERVATION LAWS.

9.2.2022

Signature of Michael A. Norton

MICHAEL A. NORTON MDNR / COMAR 08.19.06.01 QUALIFIED PROFESSIONAL

NORTON LAND DESIGN LANDSCAPE ARCHITECTURE + ENVIRONMENTAL PLANNING 5146 DORSEY HALL DRIVE, 2ND FLOOR ELLICOTT CITY, MD 21042



DEVELOPER'S CERTIFICATE The Undersigned agrees to execute all the features of the Approved Final Forest Conservation Plan No. MR2020018 including, financial bonding, forest planting, maintenance, and all other applicable agreements.

Table with columns: WATER CLASS, WATERSHED, FEMA FLOODPLAIN MAP PANEL #, TAX MAP, ADC MAP PAGE, SCALE, DATE, PROJ. NO., SHEET NO.

DATUM: NAD 83/91 HORIZONTAL NAVD 88 VERTICAL

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

PLAN SHEET L-1.7 FINAL FOREST CONSERVATION PLAN MD 355 - CLARKSBURG SHARED USE PATH

DRILL HOLES

DRILL HOLES

DRILL HOLES

MONTGOMERY PLANNING DEPARTMENT

THE MARYLAND NATIONAL CAPITAL PLAN AND PLANNING COMMISSION

Certified Plan - MR2020018

APPROVAL

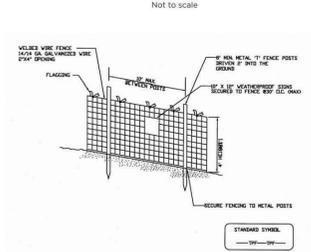
Labeth Butler

10/28/22

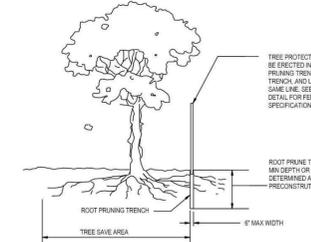
Significant/Specimen Tree Summary 24" +

Table with columns: Tree #, Scientific Name, Common Name, D.B.H. (Inches), Critical Root Zone (Sq Ft), Critical Root Zone Impacts, Percent of CRZ Impacted (SF), Tree Condition, Comments, Status, Variance. Lists 520 trees with detailed specifications.

Tree Protection Fence Detail

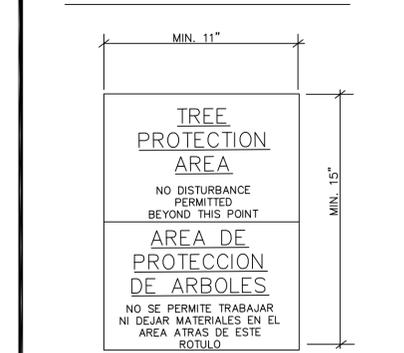


NOTES: 1. Practice may be combined with sediment control fencing. 2. Location and limits of fencing should be coordinated in field with arborist. 3. Boundaries of protection area should be staked prior to installing protective device. 4. Root damage should be avoided. 5. Protection signage is required.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



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

FOREST RETENTION AREA SIGNAGE

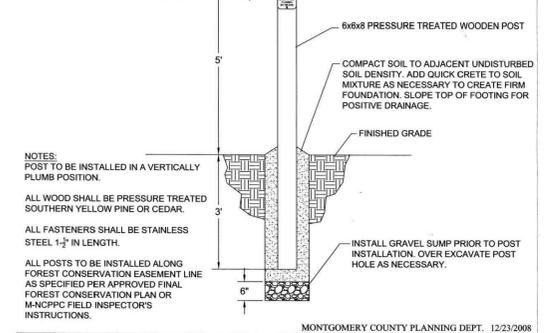


NOTE: SIGNAGE FOR FOREST RETENTION AREA TO BE PLACED 30' O.C. WHEN PLACED ON FENCE. 1. Attachment of signs to trees is prohibited. 2. Signs should be properly maintained. 3. Avoid injury to roots when placing posts for the signs.

SITE PLANTING & REFORESTATION GENERAL NOTES

- 1. DRAWINGS ARE FOR TREE CONSERVATION AND REFORESTATION PURPOSES ONLY. AS-BUILT CONDITIONS MAY VARY. THE CONTRACTOR SHALL VERIFY ALL EXISTING CONDITIONS AND UTILITY LOCATIONS SHOWN AND DESCRIBED ON THE DRAWINGS, AND SHALL INFORM NORTON LAND DESIGN, TEL NO. 240-342-2329 OF ANY DISCREPANCIES OR POTENTIAL PROBLEMS PRIOR TO COMMENCING WORK.
2. IN REFORESTATION AREAS ALL BRANCHED DECIDUOUS TREES SHALL BE PLANTED WITH RANDOM SPACING 20.9' ON CENTER. SHRUBS AND CONTAINER GROWN EVERGREENS NOT IN PLANTING BEDS SHALL BE PLANTED IN RANDOM SPACING 33.0' ON CENTER.
3. DO NOT PLANT TREES OR SHRUBS WITHIN 3'-0" OF THE CENTERLINE OF SWALES OR DITCHES.
4. "MISS UTILITY" (1-800-257-7777) MUST BE CONTACTED A MINIMUM OF 48 HOURS PRIOR TO PROCEEDING WITH ANY EXCAVATION FOR PLANT MATERIAL INSTALLATION.
5. NO PLANT MATERIAL SHALL BE PLANTED DIRECTLY IN FRONT OF ROADWAY SIGN SIGHT LINES.
6. PLANT MATERIALS AND PLANTING MEASURES SHALL CONFORM WITH THE "LANDSCAPE SPECIFICATION GUIDELINES FOR THE BALTIMORE-WASHINGTON METROPOLITAN AREAS", LATEST EDITION.
7. ALL PLANTS SHALL BE WATERED FOR A TWO YEAR PERIOD AS REQUIRED. THE CONTRACTOR SHALL PROVIDE SUFFICIENT MANPOWER AND EQUIPMENT TO COMPLETE THE WATERING AS REQUIRED.
8. THE FOLLOWING LIST OF PLANTS SHALL BE PLANTED ONLY DURING THE SPRING PLANTING SEASON: ACER RUBRUM AND QUERCUS SPP. (ALL OAK SPECIES).
9. ALL EXISTING TRASH AND IMPOVERISHED AREAS SHOWN ON THE PLAN TO BE REMOVED MUST BE REMOVED AND ANY DISTURBED SOIL MUST BE STABILIZED AND SEEDED. IT MAY BE NECESSARY TO SCARIFY AND/OR AERATE THE SOIL.
10. PLANTS SHALL BE INSPECTED BY THE CONTRACTOR AND ANY MATERIAL THAT IS EITHER DAMAGED OR WHICH HAS ROOT BALL COMPACTION, J-ROOTED OR KINKED ROOT SYSTEMS WILL BE REPLACED. NO PLANTS WILL BE STORED ON SITE. PLANTS WILL BE PLANTED IMMEDIATELY ONCE RECEIVED FROM THE NURSERY.
11. STOCK WILL BE PLANTED IN RANDOM ORDER TO REFLECT NATURAL GROWTH OF THE FOREST.
12. PLANTING FIELD SHOULD BE 2X ROOT BALL DIAMETER. NATIVE SOIL MATERIAL WILL BE USED TO BACKFILL PLANT SITE AND AREA WILL BE PACKED TO REMOVE AIR POCKETS. RAKE SOIL EVENLY OVER THE PLANTING FIELD AND COVER HOLE WITH THREE INCHES OF MULCH. WATER TO SETTLE SOIL AND PROVIDE MOISTURE AS NEEDED.
13. DEER PROTECTION MEASURES TO BE PROVIDED FOR ALL PLANTED TREES. SPECIFIC MEASURES TO BE DETERMINED AS PART OF THE PRE-PLANTING MEETING.

PERMANENT FOREST CONSERVATION EASEMENT SIGNAGE



NOTES: POST TO BE INSTALLED IN A VERTICALLY PLUMB POSITION. ALL WOOD SHALL BE PRESSURE TREATED SOUTHERN YELLOW PINE OR CEDAR. ALL FASTENERS SHALL BE STAINLESS STEEL 1/2" IN LENGTH. ALL POSTS TO BE INSTALLED ALONG FOREST CONSERVATION EASEMENT LINE AS SPECIFIED PER APPROVED FINAL FOREST CONSERVATION PLAN OR M-NCPPC FIELD INSPECTOR'S INSTRUCTIONS.

CERTIFICATION OF QUALIFIED PROFESSIONAL

I HEREBY CERTIFY THAT THE PLAN SHOWN HEREON HAS BEEN PREPARED IN ACCORDANCE WITH MARYLAND STATE, M-NCPPC AND MONTGOMERY COUNTY FOREST CONSERVATION LAWS.

9.2.2022 DATE

MICHAEL A. NORTON MDNR / COMAR 08.19.06.01 QUALIFIED PROFESSIONAL

PROPOSED LANDSCAPE PLANT SCHEDULE

Table with columns: KEY, BOTANICAL NAME, COMMON NAME, SIZE, FORM, SPACING, QUANTITY. Lists plants: NYSSA SYLVATICA (BLACKGUM), PLATANUS X ACERIFOLIA (LONDON PLANETREE), QUERCUS RUBRA (NORTHERN RED OAK).

DEVELOPER'S CERTIFICATE

The Undersigned agrees to execute all the features of the Approved Final Forest Conservation Plan No. MR2020018 including, financial bonding, forest planting, maintenance, and all other applicable agreements. Developer's Name: MONTGOMERY COUNTY DEPARTMENT OF TRANSPORTATION Printed Company Name. Contact Person or Owner: YASAMIN ESMAILI - PROJECT MANAGER. Address: 240-777-7226 Yasamin.Esmaili@MontgomeryCountyMD.gov. Signature: Yasamin Esmaili

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

Table with columns: NO., REVISION, DATE, BY. Contains revision information.

PLAN SHEET L-1.9 FINAL FOREST CONSERVATION PLAN NOTES MD 355 - CLARKSBURG SHARED USE PATH

Project No.: C.I.P. PR. #501744 SHEET 75 of 97

DRILL HOLES

DRILL HOLES

DRILL HOLES

ID	Species	Common Name	Count	DBH	Height	Health	Notes	Action	Priority
521	JUGLANS NIGRA	BLACK WALNUT	5	177	117	100%	GOOD	TO BE REMOVED	YES
522	JUGLANS NIGRA	BLACK WALNUT	1	7	7	100%	GOOD	TO BE REMOVED	YES
523	FRAXINUS SP.	A SH SP.	12	1018	1018	100%	GOOD	TO BE REMOVED	YES
524	ACER NEGUNDO	BOXELDER	10	707	707	100%	GOOD	TO BE REMOVED	YES
525	ACER NEGUNDO	BOXELDER	6	254	254	100%	GOOD	TO BE REMOVED	YES
526	PRUNUS SP.	CHERRY SP.	8	452	452	100%	GOOD	TO BE REMOVED	YES
527	ACER NEGUNDO	BOXELDER	8	452	452	100%	GOOD	TO BE REMOVED	YES
528	CARYA SP.	HICKORY SP.	4	113	113	100%	GOOD	TO BE REMOVED	YES
529	JUGLANS NIGRA	BLACK WALNUT	3	64	64	100%	GOOD	TO BE REMOVED	YES
530	CARYA SP.	HICKORY SP.	12	1018	1018	100%	GOOD	TO BE REMOVED	YES
531	CARYA SP.	HICKORY SP.	8	452	452	100%	GOOD	TO BE REMOVED	YES
532	ACER NEGUNDO	BOXELDER	11	855	855	100%	GOOD	TO BE REMOVED	YES
533	CARYA SP.	HICKORY SP.	6	254	254	100%	FAIR	THINNING	TO BE REMOVED YES
534	CARYA SP.	HICKORY SP.	4	113	113	100%	FAIR	THINNING	TO BE REMOVED YES
535	CARYA SP.	HICKORY SP.	5	177	177	100%	FAIR	THINNING	TO BE REMOVED YES
536	ACER NEGUNDO	BOXELDER	7	346	346	100%	GOOD	TO BE REMOVED	YES
537	CARYA SP.	HICKORY SP.	13	1195	1195	100%	FAIR	THINNING	TO BE REMOVED YES
538	CARYA SP.	HICKORY SP.	10	707	707	100%	FAIR	THINNING	TO BE REMOVED YES
539	CARYA SP.	HICKORY SP.	7	346	346	100%	FAIR	THINNING	TO BE REMOVED YES
540	CARYA SP.	HICKORY SP.	15	1590	463	29%	GOOD	SAVE AND PROTECT	YES
541	CARYA SP.	HICKORY SP.	4	113	113	100%	GOOD	TO BE REMOVED	YES
542	ACER NEGUNDO	BOXELDER	5	177	177	100%	GOOD	TO BE REMOVED	YES
543	ACER NEGUNDO	BOXELDER	3	64	64	100%	GOOD	TO BE REMOVED	YES
544	CARYA SP.	HICKORY SP.	2	28	0	0%	GOOD	SAVE AND PROTECT	NO
545	ACER NEGUNDO	BOXELDER	8	452	452	100%	GOOD	TO BE REMOVED	YES
546	ACER SACCHARINUM	SILVER MAPLE	20	2827	1052	37%	GOOD	TO BE REMOVED	YES
547	ACER SACCHARINUM	SILVER MAPLE	25	4418	4418	100%	GOOD	TO BE REMOVED	YES
548	ACER SACCHARINUM	SILVER MAPLE	7	346	346	100%	GOOD	TO BE REMOVED	YES
549	AILLANTHUS ALTISSIMA	TREE OF HEAVEN	3	64	64	100%	GOOD	TO BE REMOVED	YES
550	ACER NEGUNDO	BOXELDER	10	707	707	100%	GOOD	TO BE REMOVED	YES
551	ACER NEGUNDO	BOXELDER	3	64	64	100%	GOOD	TO BE REMOVED	YES
552	ACER NEGUNDO	BOXELDER	10	707	707	100%	GOOD	TO BE REMOVED	YES
553	ACER SACCHARINUM	SILVER MAPLE	12	1018	1018	100%	GOOD	TO BE REMOVED	YES
554	ACER NEGUNDO	BOXELDER	1	7	7	100%	GOOD	TO BE REMOVED	YES
555	CARYA SP.	HICKORY SP.	14	1385	1385	100%	FAIR	THINNING	TO BE REMOVED YES
556	CARYA SP.	HICKORY SP.	24	4072	4072	100%	FAIR	THINNING	TO BE REMOVED YES
557	ACER NEGUNDO	BOXELDER	4	113	113	100%	GOOD	TO BE REMOVED	YES
558	CARYA SP.	HICKORY SP.	18	2290	2290	100%	FAIR	THINNING	TO BE REMOVED YES
559	CARYA SP.	HICKORY SP.	14	1385	486	35%	FAIR	THINNING	TO BE REMOVED YES
560	ACER RUBRUM	RED MAPLE	5	177	21	12%	GOOD	SAVE AND PROTECT	YES
561	ACER SACCHARINUM	SILVER MAPLE	6	254	7	0%	GOOD	SAVE AND PROTECT	NO
562	CARYA SP.	HICKORY SP.	12	1018	55	5%	GOOD	SAVE AND PROTECT	YES
563	CARYA SP.	HICKORY SP.	18	2290	346	15%	POOR	VERY THN CANOPY	SAVE AND PROTECT NO
564	ACER NEGUNDO	BOXELDER	13	1195	1195	100%	GOOD	TO BE REMOVED	YES
565	ACER NEGUNDO	BOXELDER	24	4072	4072	100%	GOOD	TO BE REMOVED	YES
566	ACER SACCHARINUM	SILVER MAPLE	30	6362	3106	49%	GOOD	TO BE REMOVED	YES
567	CARYA SP.	HICKORY SP.	1	7	7	100%	GOOD	TO BE REMOVED	YES
568	POPULUS DELTOIDES	COTTONWOOD	2	28	28	100%	GOOD	TO BE REMOVED	YES
569	POPULUS DELTOIDES	COTTONWOOD	2	28	28	100%	GOOD	TO BE REMOVED	YES
570	ACER SACCHARINUM	SILVER MAPLE	30	6362	2079	33%	GOOD	TO BE REMOVED	YES
571	ACER NEGUNDO	BOXELDER	12	1018	1018	100%	GOOD	TO BE REMOVED	YES
572	FRAXINUS SP.	A SH SP.	20	2827	2827	100%	POOR	MAJOR DEADSPACE	TO BE REMOVED NO
573	FRAXINUS SP.	A SH SP.	14	1385	1385	100%	POOR	VERY THN CANOPY	TO BE REMOVED NO
574	ACER SACCHARINUM	SILVER MAPLE	2	28	28	100%	GOOD	TO BE REMOVED	YES
575	FRAXINUS SP.	A SH SP.	13	1195	1195	100%	POOR	VERY THN CANOPY	TO BE REMOVED NO
576	ACER NEGUNDO	BOXELDER	5	177	177	100%	GOOD	TO BE REMOVED	YES
577	ACER NEGUNDO	BOXELDER	7	346	346	100%	GOOD	TO BE REMOVED	YES
578	ACER NEGUNDO	BOXELDER	1	7	7	100%	GOOD	TO BE REMOVED	YES
579	CELTIS OCCIDENTALIS	HACKBERRY	1	7	7	100%	GOOD	TO BE REMOVED	YES
580	CARYA SP.	HICKORY SP.	2	28	28	100%	GOOD	TO BE REMOVED	YES
581	ACER NEGUNDO	BOXELDER	3	64	64	100%	GOOD	TO BE REMOVED	YES
582	ACER NEGUNDO	BOXELDER	2	28	28	100%	GOOD	TO BE REMOVED	YES
583	CERCIS CANADENSIS	REDBUD	2	28	28	100%	GOOD	TO BE REMOVED	YES
584	CARYA SP.	HICKORY SP.	10	707	707	100%	FAIR	THINNING	TO BE REMOVED YES
585	FRAXINUS SP.	A SH SP.	8	452	452	100%	POOR	VERY THN CANOPY	TO BE REMOVED NO
586	FRAXINUS SP.	A SH SP.	9	573	573	100%	FAIR	THINNING	TO BE REMOVED YES
587	CERCIS CANADENSIS	REDBUD	1	7	7	100%	GOOD	TO BE REMOVED	YES
588	CERCIS CANADENSIS	REDBUD	2	28	28	100%	GOOD	TO BE REMOVED	YES
589	ACER NEGUNDO	BOXELDER	2	28	28	100%	GOOD	TO BE REMOVED	YES
590	FRAXINUS SP.	A SH SP.	6	254	254	100%	POOR	VERY THN CANOPY	TO BE REMOVED NO
591	ACER NEGUNDO	BOXELDER	2	28	28	100%	GOOD	TO BE REMOVED	YES
592	CERCIS CANADENSIS	REDBUD	3	64	64	100%	GOOD	TO BE REMOVED	YES
593	CARYA SP.	HICKORY SP.	1	7	7	100%	GOOD	TO BE REMOVED	YES
594	CARYA SP.	HICKORY SP.	4	113	113	100%	GOOD	TO BE REMOVED	YES
595	ACER NEGUNDO	BOXELDER	2	28	28	100%	GOOD	TO BE REMOVED	YES
596	SKIPPED IN FIELD								
597	CARYA SP.	HICKORY SP.	6	254	254	100%	FAIR	THINNING	TO BE REMOVED YES
598	CARYA SP.	HICKORY SP.	16	1810	1810	100%	FAIR	THINNING	TO BE REMOVED YES
599	ACER NEGUNDO	BOXELDER	3	64	64	100%	GOOD	TO BE REMOVED	YES
600	CERCIS CANADENSIS	REDBUD	1	7	7	100%	GOOD	TO BE REMOVED	YES
601	CARYA SP.	HICKORY SP.	2	28	28	100%	FAIR	THINNING	TO BE REMOVED YES
602	CARYA SP.	HICKORY SP.	4	113	113	100%	FAIR	THINNING	TO BE REMOVED YES
603	FRAXINUS SP.	A SH SP.	5	177	177	100%	FAIR	THINNING	TO BE REMOVED YES
604	FRAXINUS SP.	A SH SP.	2	28	28	100%	FAIR	THINNING	TO BE REMOVED YES
605	AILLANTHUS ALTISSIMA	TREE OF HEAVEN	6	254	254	100%	FAIR	THINNING	TO BE REMOVED YES
606	AILLANTHUS ALTISSIMA	TREE OF HEAVEN	10	707	707	100%	GOOD	TO BE REMOVED	YES
607	AILLANTHUS ALTISSIMA	TREE OF HEAVEN	8	452	452	100%	GOOD	TO BE REMOVED	YES
608	AILLANTHUS ALTISSIMA	TREE OF HEAVEN	12	1018	1018	100%	GOOD	TO BE REMOVED	YES
609	AILLANTHUS ALTISSIMA	TREE OF HEAVEN	14	1385	1385	100%	GOOD	TO BE REMOVED	YES
610	AILLANTHUS ALTISSIMA	TREE OF HEAVEN	15	1590	1590	100%	GOOD	TO BE REMOVED	YES
611	AILLANTHUS ALTISSIMA	TREE OF HEAVEN	12	1018	1018	100%	GOOD	TO BE REMOVED	YES
612	PRUNUS SP.	CHERRY SP.	13	1195	1195	100%	GOOD	TO BE REMOVED	YES
613	ROBINIA PSEUDOACACIA	BLACK LOCUST	16	1810	1810	100%	GOOD	TO BE REMOVED	YES

* BOLD TYPE DENOTES SPECIMEN TREES	
Condition Scoring System	
No Apparent Problems	Excellent
Minor Problems	Good
Major Problems	Fair
Extreme Problems	Poor

AFFORESTATION PLANT MATERIALS									
AREA 1	TOTAL	BOTANICAL NAME	COMMON NAME	SIZE	UNIT/ROOT	SPACING	FORM		
0.46AC	0.46AC								
6	6	Acer rubrum	Red Maple	3" Caliper	B&B	Randomly 23.5' O.C.	Tree		
8	8	Amelanchier canadensis	Senteberry	36" Height	Cont.	Randomly 33' O.C.	Shrub		
6	6	Fagus grandifolia	American Beech	3" Caliper	B&B	Randomly 23.5' O.C.	Tree		
8	8	Hamamelis virginiana	Witch Hazel	36" Height	Cont.	Randomly 33' O.C.	Shrub		
5	5	Ilex opaca	American Holly	6-7" Height	B&B	Randomly 23.5' O.C.	Tree		
6	6	Liriodendron tulipifera	Yellow Poplar	3" Caliper	B&B	Randomly 23.5' O.C.	Tree		
6	6	Nyssa sylvatica	Black Gum	3" Caliper	B&B	Randomly 23.5' O.C.	Tree		
5	5	Carpinus caroliniana	Musclemwood	2" Caliper	B&B	Randomly 23.5' O.C.	Tree		
6	6	Platanus occidentalis	American Sycamore	3" Caliper	B&B	Randomly 23.5' O.C.	Tree		
6	6	Quercus rubra	Red Oak	3" Caliper	B&B	Randomly 23.5' O.C.	Tree		
8	8	Vaccinium corymbosum	Highbush Bluberry	18" Height	Cont.	Randomly 33' O.C.	Shrub		
46	46								
37 LBS	37 LBS		Slyva Field and Forest Mix or Earnst Native Upland Wildlife Forage and Cover Meadow Mix; or equivalent Companion Seed Mix of 50% Annual Rye Grass 25% Redtop Grass 25% sheep Fescue			80 LBS. PER ACRE	SEED		
16 LBS	16 LBS					8 LBS. PER 10,000 SF	SEED		

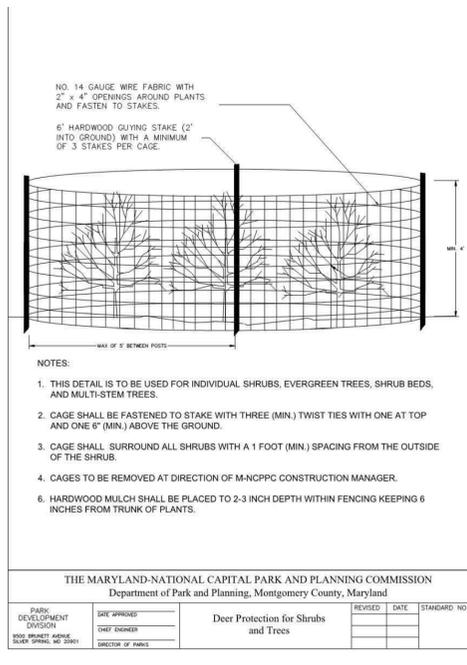
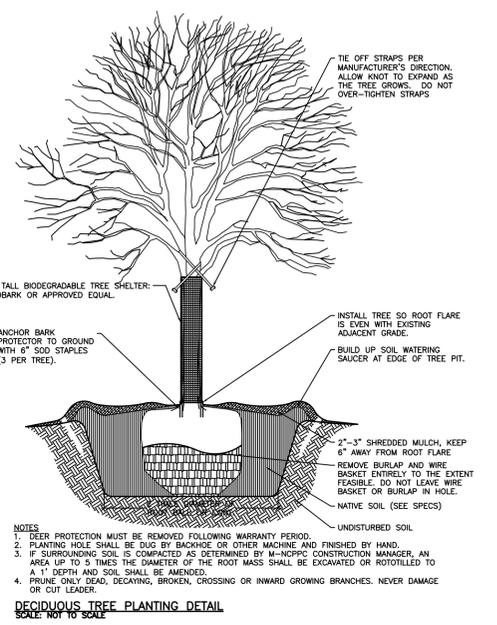
PLANTING SCHEDULE

TASKS	MONTHS											
	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC
TRANSPLANT OF 2" DBH OR GREATER	XXXXXX											XXXXXX
PLANTING SEEDINGS, WHIPS	XXXXXX											XXXXXX
MINIMUM MONITORING		*				*						*
FERTILIZER * (IF NEEDED)												
WATER **												
PRUNING												

KEY

- * ACTIVITIES DURING THESE MONTHS ARE DEPENDENT UPON GROUND CONDITIONS
- XXXXXX GREATLY RECOMMENDED
- XXXXXX RECOMMENDED WITH ADDITIONAL CARE
- XXXXXX RECOMMENDED
- * DEPENDENT UPON SITE CONDITIONS
- ** DEPENDENT UPON SITE CONDITIONS; WEEKLY WATERING IS GREATLY RECOMMENDED FROM MAY THROUGH OCTOBER UNLESS WEEKLY RAINFALL EQUALS 1"

NOTES:
 The planting and care of trees is most successful when coordinated with the local climatic conditions. This calendar summarizes some of the recommended time frames for basic reforestation and stress reduction activities.



DEVELOPER'S CERTIFICATE

The Undersigned agrees to execute all the features of the Approved Final Forest Conservation Plan No. MR2020018, including, financial bonding, forest planting, maintenance, and all other applicable agreements.

Developer's Name: MONTGOMERY COUNTY DEPARTMENT OF TRANSPORTATION
 Contact Person or Owner: YASAMIN ESMAILI - PROJECT MANAGER
 Address: DEPT. OF TRANSPORTATION, DIVISION OF TRANSPORTATION ENGINEERING - 100 EDISON PARK DRIVE, 4TH FLOOR, GAITHERSBURG, MD 20878
 Phone and Email: 240-777-1226 / Yasamin.Esmaili@MontgomeryCountyMD.gov

Signature: *Yasamin Esmaili*

CERTIFICATION OF QUALIFIED PROFESSIONAL

I HEREBY CERTIFY THAT THE PLAN SHOWN HEREON HAS BEEN PREPARED IN ACCORDANCE WITH MARYLAND STATE, MNC&P&C AND MONTGOMERY COUNTY FOREST CONSERVATION LAWS.

9.2.2022
 DATE

Michael A. Norton
 MICHAEL A. NORTON
 MONR 7 COMAR 08.19.06.01
 QUALIFIED PROFESSIONAL

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.P. Drawn by : B.P. Checked by : M.N.

PLAN SHEET L-1.10

FINAL FOREST CONSERVATION PLAN NOTES

MD 355 - CLARKSBURG SHARED USE PATH

Project No. : C.I.P. PR. #501744 SHEET 76 of 97

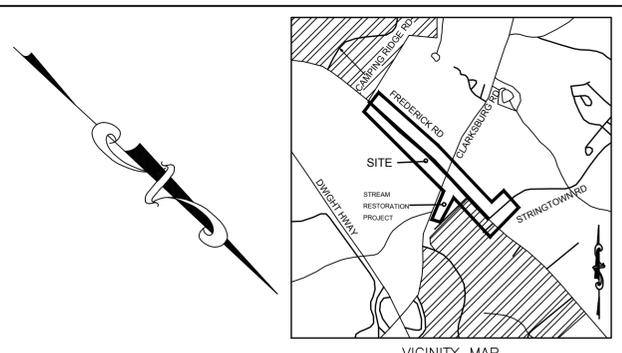
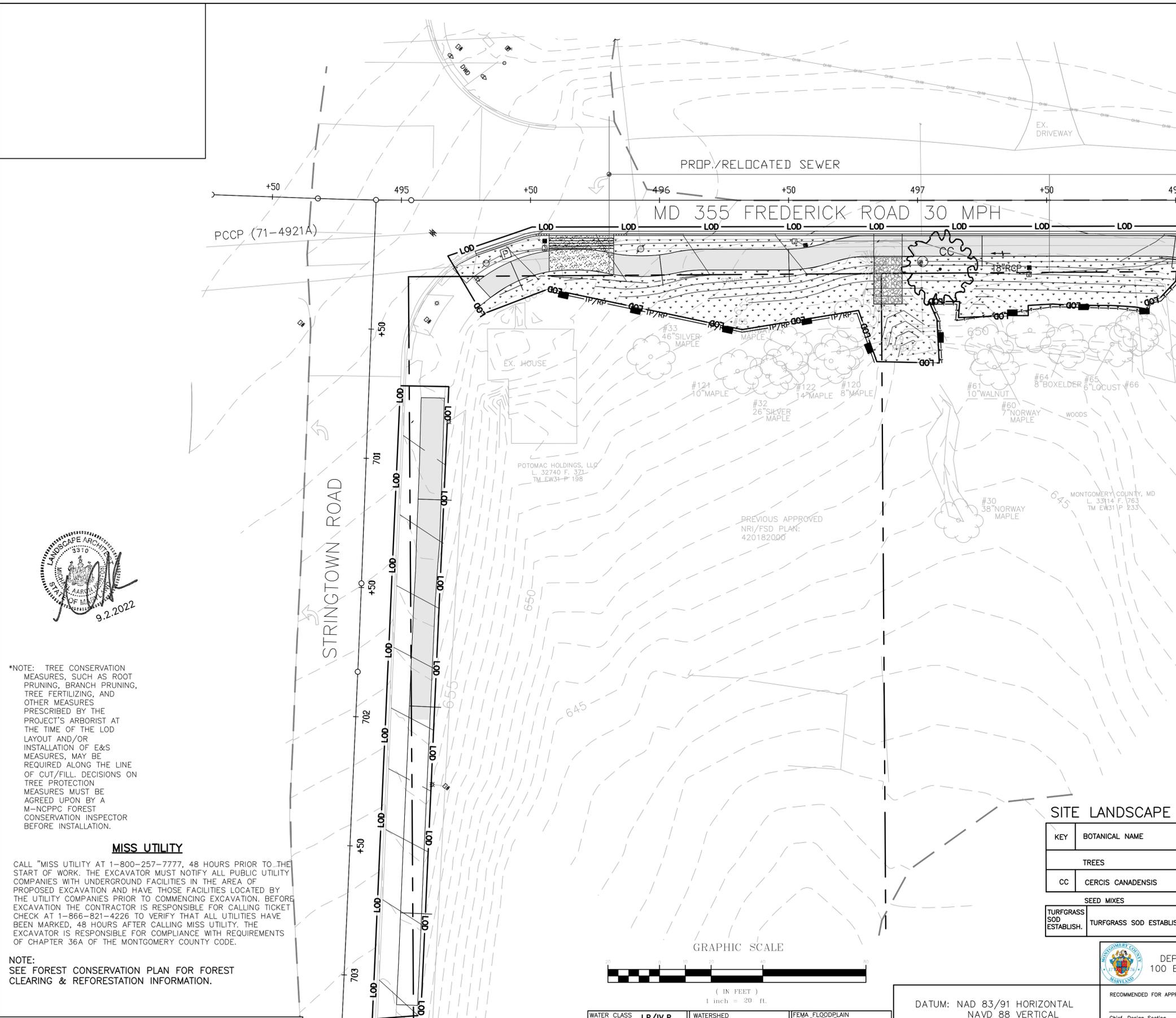
NO.	REVISION	DATE	BY

DATUM: NAD 83/91 HORIZONTAL
 NAVD 88 VERTICAL

DRILL HOLES

DRILL HOLES

DRILL HOLES



LEGEND

- 14" RED OAK EXISTING TREE
- PROPOSED CANOPY TREE
- LIMITS OF DISTURBANCE
- PROPOSED GRADE
- EXISTING PROPERTY BOUNDARY
- PROPOSED RIGHT-OF-WAY
- STORM DITCH W/ FLOWLINE
- EX. CONTOUR
- EXISTING STREAM
- EXISTING WETLAND BOUNDARY
- 25' WETLAND BOUNDARY
- 75' WETLAND BOUNDARY
- EXISTING EASEMENT
- PROPOSED SHARED USE PATH
- TURFGRASS SOD ESTABLISHMENT
- PROPOSED LIGHT POLES
- TREE PROTECTION FENCE (TEMPORARY)
- TEMPORARY COMBINED ROOT PRUNE TRENCH/TREE PROTECTION FENCE
- TEMPORARY TREE PROTECTION SIGNAGE (APPROX. 20' O.C.)



*NOTE: TREE CONSERVATION MEASURES, SUCH AS ROOT PRUNING, BRANCH PRUNING, TREE FERTILIZING, AND OTHER MEASURES PRESCRIBED BY THE PROJECT'S ARBORIST AT THE TIME OF THE LOD LAYOUT AND/OR INSTALLATION OF E&S MEASURES, MAY BE REQUIRED ALONG THE LINE OF CUT/FILL. DECISIONS ON TREE PROTECTION MEASURES MUST BE AGREED UPON BY A M-NCPPC FOREST CONSERVATION INSPECTOR BEFORE INSTALLATION.

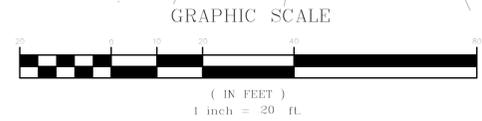
MISS UTILITY

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. BEFORE EXCAVATION THE CONTRACTOR IS RESPONSIBLE FOR CALLING TICKET CHECK AT 1-866-821-4226 TO VERIFY THAT ALL UTILITIES HAVE BEEN MARKED, 48 HOURS AFTER CALLING MISS UTILITY. THE EXCAVATOR IS RESPONSIBLE FOR COMPLIANCE WITH REQUIREMENTS OF CHAPTER 36A OF THE MONTGOMERY COUNTY CODE.

NOTE: SEE FOREST CONSERVATION PLAN FOR FOREST CLEARING & REFORESTATION INFORMATION.

SITE LANDSCAPE PLANT SCHEDULE

KEY	BOTANICAL NAME	COMMON NAME	SIZE	FORM	SPACING	QUANTITY	COMMENTS			
TREES										
CC	CERCIS CANADENSIS	EASTERN REDBUD	5-6' HT.	B&B	20' O.C.	1				
SEED MIXES										
TURFGRASS SOD ESTABLISH.	TURFGRASS SOD ESTABLISHMENT- TALL FESCUE/KENTUCKY BLUGRASS					TURFGRASS SOD ESTABLISH.	TURFGRASS SOD ESTABLISH.	SQUARE YARD	671	STABILIZATION



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BALT.443.542.9199 x101 DC 240.342.2329x101 WWW.NORTONLANDDESIGN.COM

WATER CLASS	I,P/W,P	WATERSHED	LITTLE SENECA CREEK	FEMA FLOODPLAIN MAP PANEL #	24031C 0160D
TRIBUTARY	ROCK CREEK			ADC MAP PAGE	9
TAX MAP	EW341,EW121	200 SHEET	233NW13,233NW14	GRID	B-3 C-3.4
SCALE	AS SHOWN	DATE	MARCH 2021	PROJ. NO.	15-138
				SHEET NO.	L-2.1

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 : B.P. Drawn by : B.P. Checked by : M.N.

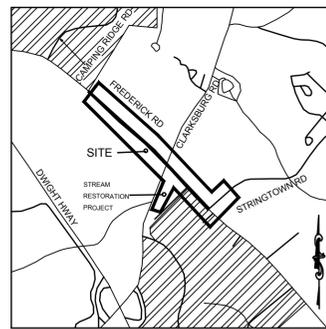
PLAN SHEET L-2.1
LANDSCAPE PLAN

MD 355 - CLARKSBURG
SHARED USE PATH

Project No. : C.I.P. PR. #501744 SHEET 77 of 97

SITE LANDSCAPE PLANT SCHEDULE

SEED MIXES		TURFGRASS SOD ESTABLISH.	TURFGRASS SOD ESTABLISH.	TURFGRASS SOD ESTABLISH.	SQUARE YARD	243	STABILIZATION
TURFGRASS SOD ESTABLISH.	TURFGRASS SOD ESTABLISHMENT- TALL FESCUE/KENTUCKY BLUEGRASS	TURFGRASS SOD ESTABLISH.	TURFGRASS SOD ESTABLISH.	TURFGRASS SOD ESTABLISH.	SQUARE YARD	243	STABILIZATION

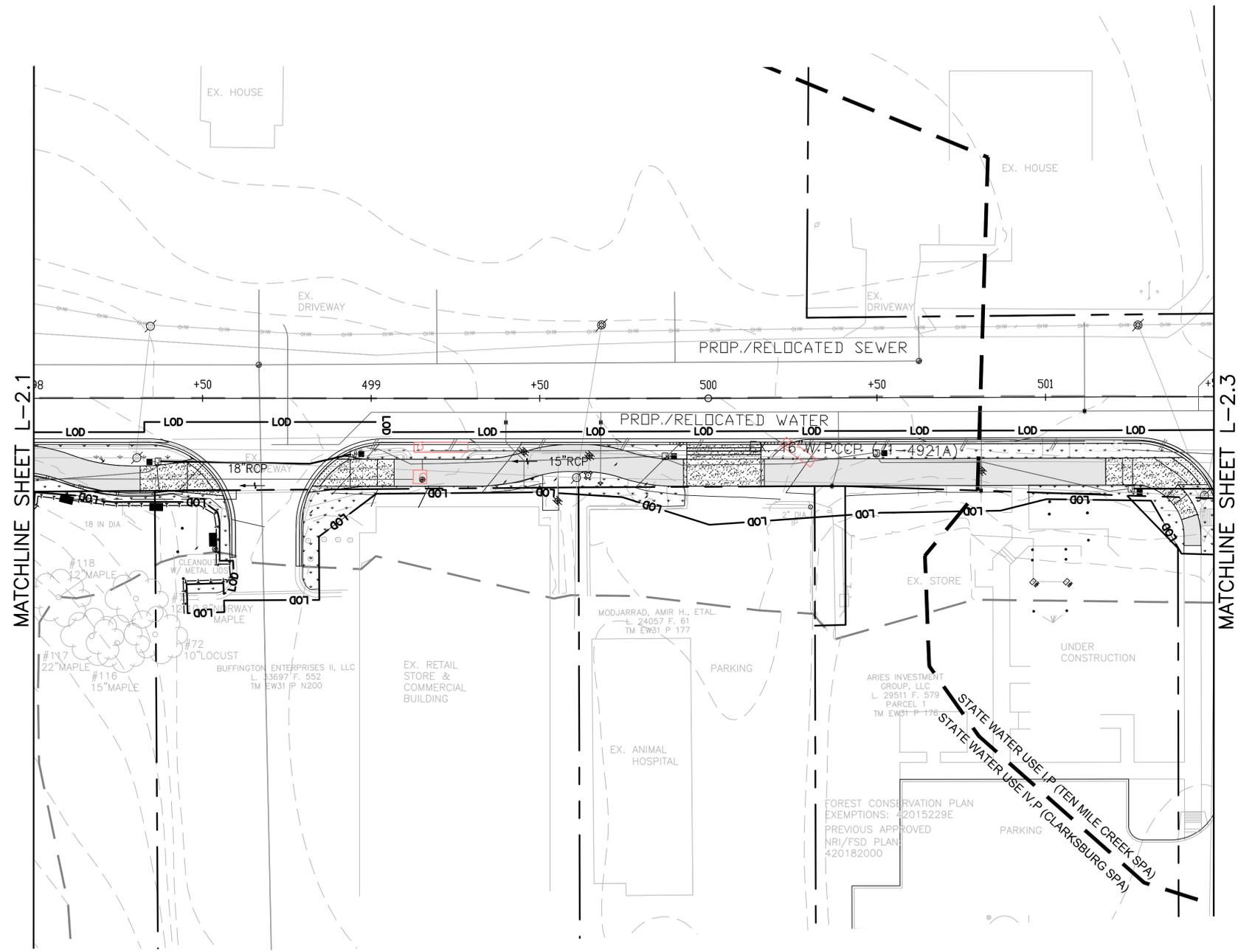


VICINITY MAP
1"=2000'

LEGEND

- 14" RED OAK EXISTING TREE
- PROPOSED CANOPY TREE
- LIMITS OF DISTURBANCE
- PROPOSED GRADE
- EXISTING PROPERTY BOUNDARY
- PROPOSED RIGHT-OF-WAY
- STORM DITCH W/ FLOWLINE
- EX. CONTOUR
- EXISTING STREAM
- EXISTING WETLAND BOUNDARY
- 25' WETLAND BOUNDARY
- 75' WETLAND BOUNDARY
- EXISTING EASEMENT
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- TURFGRASS SOD ESTABLISHMENT
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- TREE PROTECTION FENCE (TEMPORARY)
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- TEMPORARY TREE PROTECTION SIGNAGE (APPROX. 20' O.C.)

NOTE:
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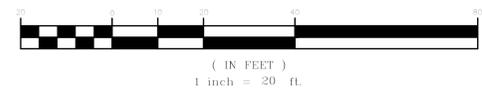
MATCHLINE SHEET L-2.1

MATCHLINE SHEET L-2.3

MISS UTILITY

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. BEFORE EXCAVATION THE CONTRACTOR IS RESPONSIBLE FOR CALLING TICKET CHECK AT 1-866-821-4226 TO VERIFY THAT ALL UTILITIES HAVE BEEN MARKED, 48 HOURS AFTER CALLING MISS UTILITY. THE EXCAVATOR IS RESPONSIBLE FOR COMPLIANCE WITH REQUIREMENTS OF CHAPTER 36A OF THE MONTGOMERY COUNTY CODE.

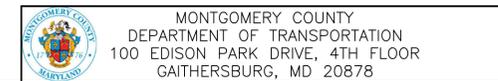
GRAPHIC SCALE



*NOTE: TREE CONSERVATION MEASURES, SUCH AS ROOT PRUNING, BRANCH PRUNING, TREE FERTILIZING, AND OTHER MEASURES PRESCRIBED BY THE PROJECT'S ARBORIST AT THE TIME OF THE LOD LAYOUT AND/OR INSTALLATION OF E&S MEASURES, MAY BE REQUIRED ALONG THE LINE OF CUT/FILL. DECISIONS ON TREE PROTECTION MEASURES MUST BE AGREED UPON BY A M-NCPPC FOREST CONSERVATION INSPECTOR BEFORE INSTALLATION.

WATER CLASS	I,P/IV,P	WATERSHED	LITTLE SENECA CREEK	FEMA FLOODPLAIN MAP PANEL #	24031C 0160D
TRIBUTARY	ROCK CREEK			ADC MAP PAGE	9
TAX MAP	EW341,EW121	200 SHEET	233NW13,233NW12	GRID	B-3, C-3,4
SCALE	AS SHOWN	DATE	MARCH 2021	PROJ. NO.	15-138
				SHEET NO.	L-2.2

DATUM: NAD 83/91 HORIZONTAL
NAVD 88 VERTICAL



RECOMMENDED FOR APPROVAL	
Chief, Design Section	Date
APPROVED	
Chief, Division of Engineering Services	Date
Designed by : B.P.	Drawn by : B.P.
Checked by : M.N.	

PLAN SHEET L-2.2
LANDSCAPE PLAN

MD 355 - CLARKSBURG
SHARED USE PATH

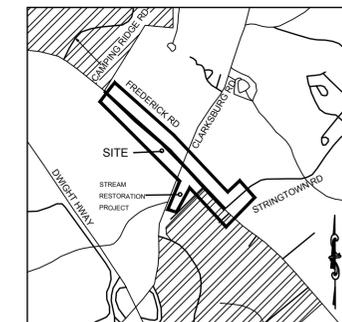


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BALT.443.542.9199 x101 DC 240.342.2329x101 WWW.NORTONLANDDESIGN.COM

DRILL HOLES

DRILL HOLES

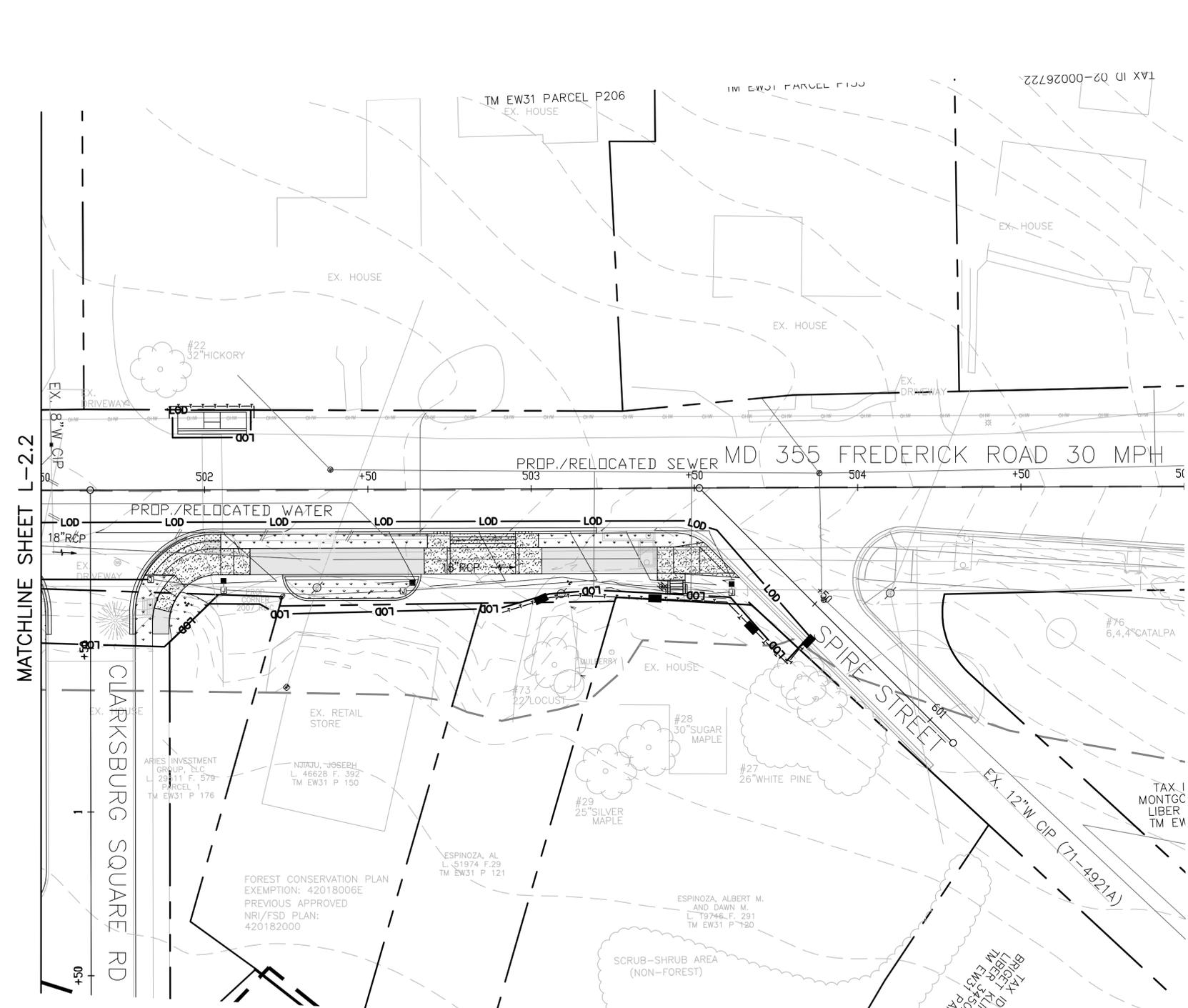
DRILL HOLES



LEGEND

- RED OAK
- PROPOSED CANOPY TREE
- LIMITS OF DISTURBANCE
- PROPOSED GRADE
- EXISTING PROPERTY BOUNDARY
- PROPOSED RIGHT-OF-WAY
- STORM DITCH W/ FLOWLINE
- EX. CONTOUR
- EXISTING STREAM
- EXISTING WETLAND BOUNDARY
- 25' WETLAND BOUNDARY
- 75' WETLAND BOUNDARY
- EXISTING EASEMENT
- PROPOSED SHARED USE PATH
- TURFGRASS SOD ESTABLISHMENT
- PROPOSED LIGHT POLES
- TREE PROTECTION FENCE (TEMPORARY)
- TEMPORARY COMBINED ROOT PRUNE TRENCH/TREE PROTECTION FENCE
- TEMPORARY TREE PROTECTION SIGNAGE (APPROX. 20' O.C.)

NOTE: SEE FOREST CONSERVATION PLAN FOR FOREST CLEARING & REFORESTATION INFORMATION.



SITE LANDSCAPE PLANT SCHEDULE

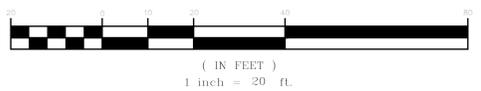
SEED MIXES					
TURFGRASS SOD ESTABLISH.	TURFGRASS SOD ESTABLISHMENT- TALL FESCUE/KENTUCKY BLUGRASS	TURFGRASS SOD ESTABLISH.	TURFGRASS SOD ESTABLISH.	SQUARE YARD	77
					STABILIZATION

MISS UTILITY

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GRAPHIC SCALE



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WATER CLASS	I,P/IV,P	WATERSHED	LITTLE SENECA CREEK	FEMA FLOODPLAIN MAP PANEL #	24031C 0160D
TRIBUTARY	ROCK CREEK			ADC MAP PAGE	9
TAX MAP	EW341,EW121	200 SHEET	233NW13,233NW12	GRID	B-3, C-3,4
SCALE	AS SHOWN	DATE	MARCH 2021	PROJ. NO.	15-138
				SHEET NO.	L-2.3

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

DATUM: NAD 83/91 HORIZONTAL NAVD 88 VERTICAL

RECOMMENDED FOR APPROVAL

Chief, Design Section _____ Date _____
 APPROVED

Chief, Division of Engineering Services _____ Date _____

Designed by : B.P. Drawn by : B.P. Checked by : M.N.

PLAN SHEET L-2.3
LANDSCAPE PLAN

MD 355 - CLARKSBURG
SHARED USE PATH

Project No. : C.I.P. PR. #501744 SHEET 79 of 97



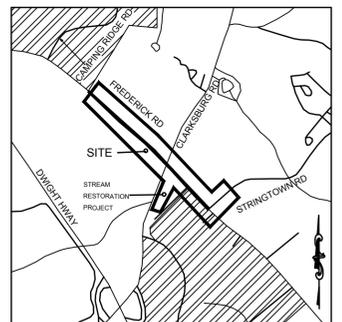
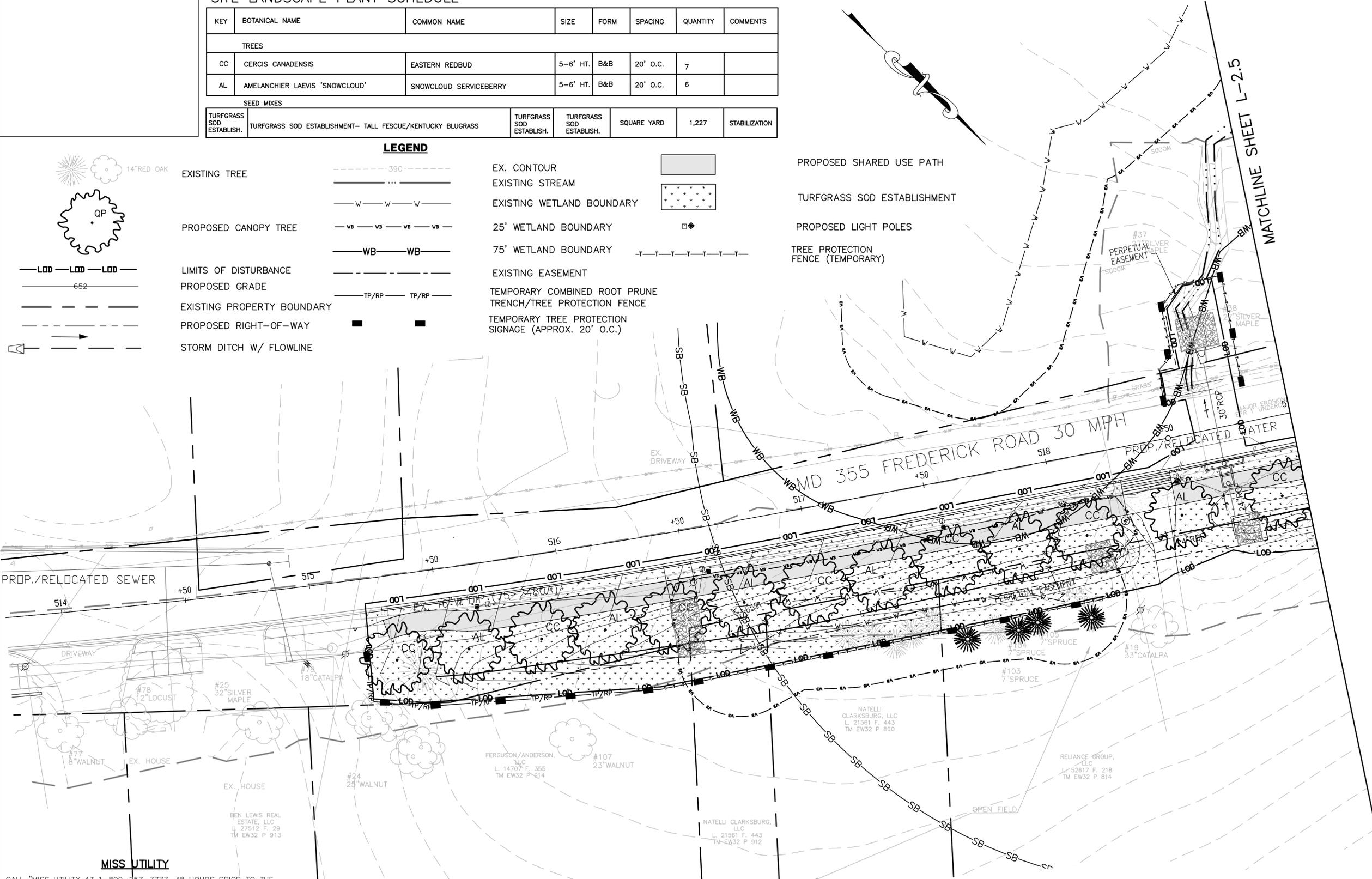
SITE LANDSCAPE PLANT SCHEDULE

KEY	BOTANICAL NAME	COMMON NAME	SIZE	FORM	SPACING	QUANTITY	COMMENTS
TREES							
CC	CERCIS CANADENSIS	EASTERN REDBUD	5-6' HT.	B&B	20' O.C.	7	
AL	AMELANCHIER LAEVIS 'SNOWCLOUD'	SNOWCLOUD SERVICEBERRY	5-6' HT.	B&B	20' O.C.	6	

SEED MIXES		TURFGRASS SOD ESTABLISH.	TURFGRASS SOD ESTABLISH.	TURFGRASS SOD ESTABLISH.	SQUARE YARD	QUANTITY	COMMENTS
		TURFGRASS SOD ESTABLISH.	TURFGRASS SOD ESTABLISH.	TURFGRASS SOD ESTABLISH.	TURFGRASS SOD ESTABLISH.	1,227	STABILIZATION

LEGEND

	EXISTING TREE		EX. CONTOUR
	PROPOSED CANOPY TREE		EXISTING STREAM
	LIMITS OF DISTURBANCE		EXISTING WETLAND BOUNDARY
	PROPOSED GRADE		25' WETLAND BOUNDARY
	EXISTING PROPERTY BOUNDARY		75' WETLAND BOUNDARY
	PROPOSED RIGHT-OF-WAY		EXISTING EASEMENT
	STORM DITCH W/ FLOWLINE		TEMPORARY COMBINED ROOT PRUNE TRENCH/TREE PROTECTION FENCE
			TEMPORARY TREE PROTECTION SIGNAGE (APPROX. 20' O.C.)

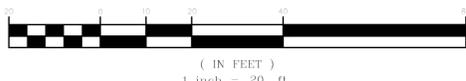


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FOREST CONSERVATION PLAN EXEMPTION: 4201R0066

GRAPHIC SCALE



NOTE: SEE FOREST CONSERVATION PLAN FOR FOREST CLEARING & REFORESTATION INFORMATION.

DATUM: NAD 83/91 HORIZONTAL
 NAVD 88 VERTICAL

WATER CLASS	I,P/IV,P	WATERSHED	LITTLE SENECA CREEK	FEMA FLOODPLAIN MAP PANEL #	24031C 0160D
TRIBUTARY	ROCK CREEK	ADC MAP PAGE	9	CRID	B-3, C-3,4
TAX MAP	EW341,EW121	2008 SHEET	232NW13, 233NW12		
SCALE	AS SHOWN	DATE	MARCH 2021	PROJ. NO.	15-138
				SHEET NO.	L-2.4

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			
Designed by :	B.P.	Drawn by :	B.P.
Checked by :	M.N.		

PLAN SHEET L-2.4
LANDSCAPE PLAN
MD 355 - CLARKSBURG
SHARED USE PATH

Project No. : C.I.P. PR. #501744 SHEET 80 of 97



DRILL HOLES

DRILL HOLES

DRILL HOLES

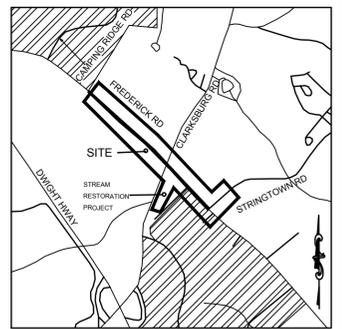
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 BALT.443.542.9199 X101 DC.240.342.2329x101 WWW.NORTONLANDDESIGN.COM

SITE LANDSCAPE PLANT SCHEDULE

KEY	BOTANICAL NAME	COMMON NAME	SIZE	FORM	SPACING	QUANTITY	COMMENTS
TREES							
CC	CERCIS CANADENSIS	EASTERN REDBUD	5-6' HT.	B&B	20' O.C.	3	
AL	AMELANCHIER LAEVIS 'SNOWCLOUD'	SNOWCLOUD SERVICEBERRY	5-6' HT.	B&B	20' O.C.	4	
SEED MIXES							
TURFGRASS SOD ESTABLISH.	TURFGRASS SOD ESTABLISHMENT- TALL FESCUE/KENTUCKY BLUGRASS		TURFGRASS SOD ESTABLISH.	TURFGRASS SOD ESTABLISH.	SQUARE YARD	2,174	STABILIZATION

MISS UTILITY

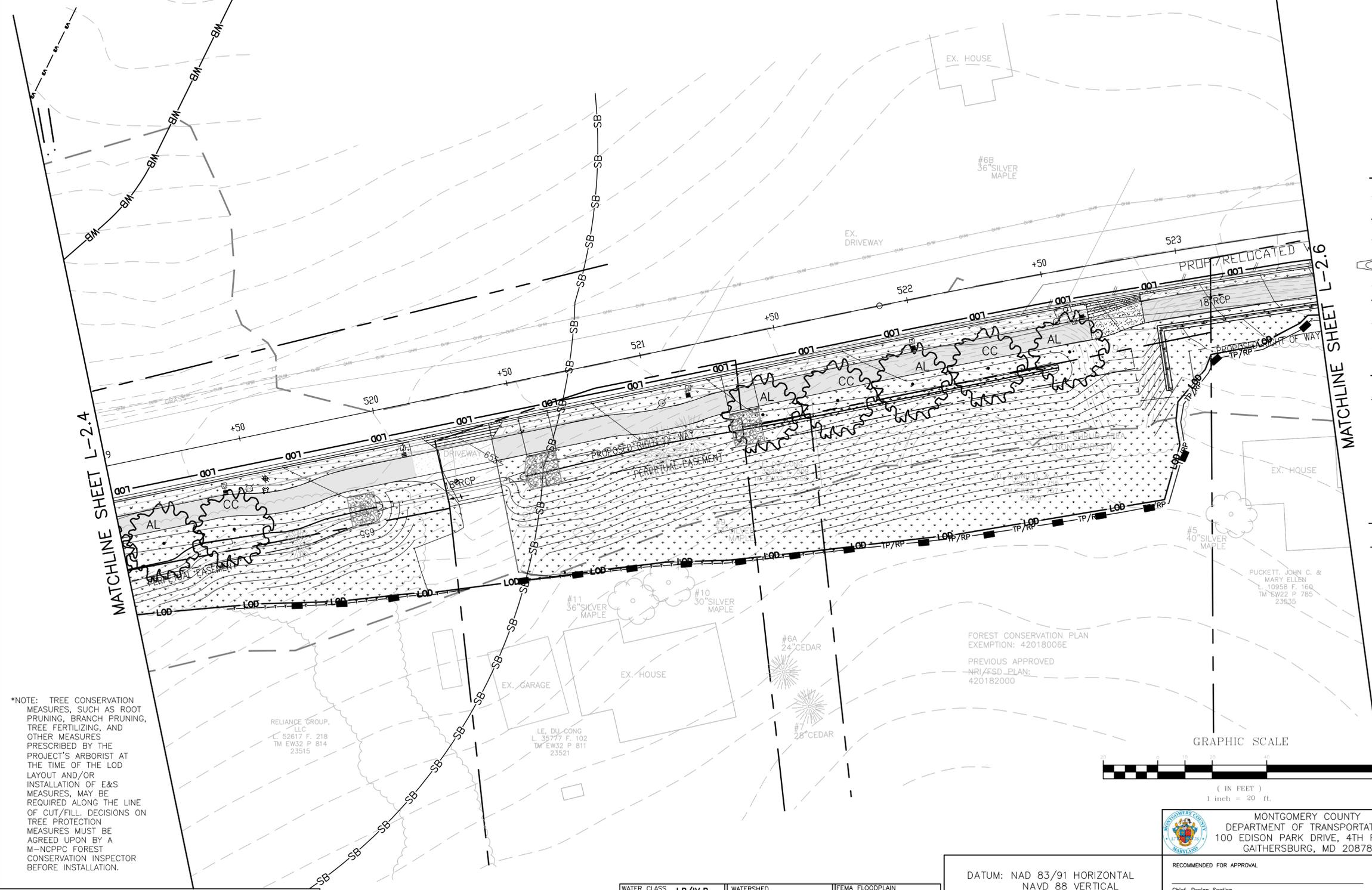
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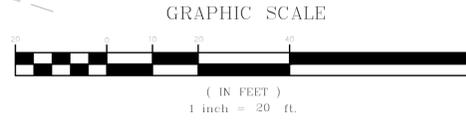
LEGEND

- 14" RED OAK EXISTING TREE
- PROPOSED CANOPY TREE
- LIMITS OF DISTURBANCE
- PROPOSED GRADE
- EXISTING PROPERTY BOUNDARY
- PROPOSED RIGHT-OF-WAY
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- EX. CONTOUR
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- TEMPORARY COMBINED ROOT PRUNE TRENCH/TREE PROTECTION FENCE
- TEMPORARY TREE PROTECTION SIGNAGE (APPROX. 20' O.C.)

NOTE: SEE FOREST CONSERVATION PLAN FOR FOREST CLEARING & REFORESTATION INFORMATION.



*NOTE: TREE CONSERVATION MEASURES, SUCH AS ROOT PRUNING, BRANCH PRUNING, TREE FERTILIZING, AND OTHER MEASURES PRESCRIBED BY THE PROJECT'S ARBORIST AT THE TIME OF THE LOD LAYOUT AND/OR INSTALLATION OF E&S MEASURES, MAY BE REQUIRED ALONG THE LINE OF CUT/FILL. DECISIONS ON TREE PROTECTION MEASURES MUST BE AGREED UPON BY A M-NCPPC FOREST CONSERVATION INSPECTOR BEFORE INSTALLATION.



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WATER CLASS	I,P/IV,P	WATERSHED	LITTLE SENECA CREEK	FEMA FLOODPLAIN MAP PANEL #	24031C 0160D
TRIBUTARY	ROCK CREEK	ADC MAP PAGE	9	CRID	B-3, C-3.4
TAX MAP	EW341,EW121	2008 SHEET	232NW13, 233NW13	PROJ. NO.	15-138
SCALE	AS SHOWN	DATE	MARCH 2021	SHEET NO.	L-2.5

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 : B.P. Drawn by : B.P. Checked by : M.N.

PLAN SHEET L-2.5
LANDSCAPE PLAN

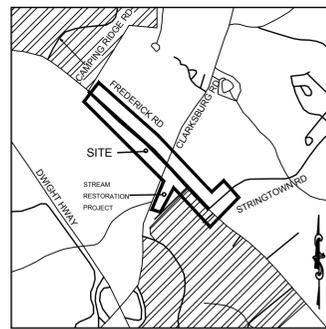
MD 355 - CLARKSBURG
SHARED USE PATH

Project No. : C.I.P. PR. #501744 SHEET 81 of 97



SITE LANDSCAPE PLANT SCHEDULE

KEY	BOTANICAL NAME	COMMON NAME	SIZE	FORM	SPACING	QUANTITY	COMMENTS
TREES							
CC	CERCIS CANADENSIS	EASTERN REDBUD	5-6' HT.	B&B	20' O.C.	3	
AL	AMELANCHIER LAEVIS 'SNOWCLOUD'	SNOWCLOUD SERVICEBERRY	5-6' HT.	B&B	20' O.C.	2	
SEED MIXES							
TURFGRASS SOD ESTABLISH.	TURFGRASS SOD ESTABLISHMENT- TALL FESCUE/KENTUCKY BLUEGRASS		TURFGRASS SOD ESTABLISH.	TURFGRASS SOD ESTABLISH.	SQUARE YARD	2,773	STABILIZATION



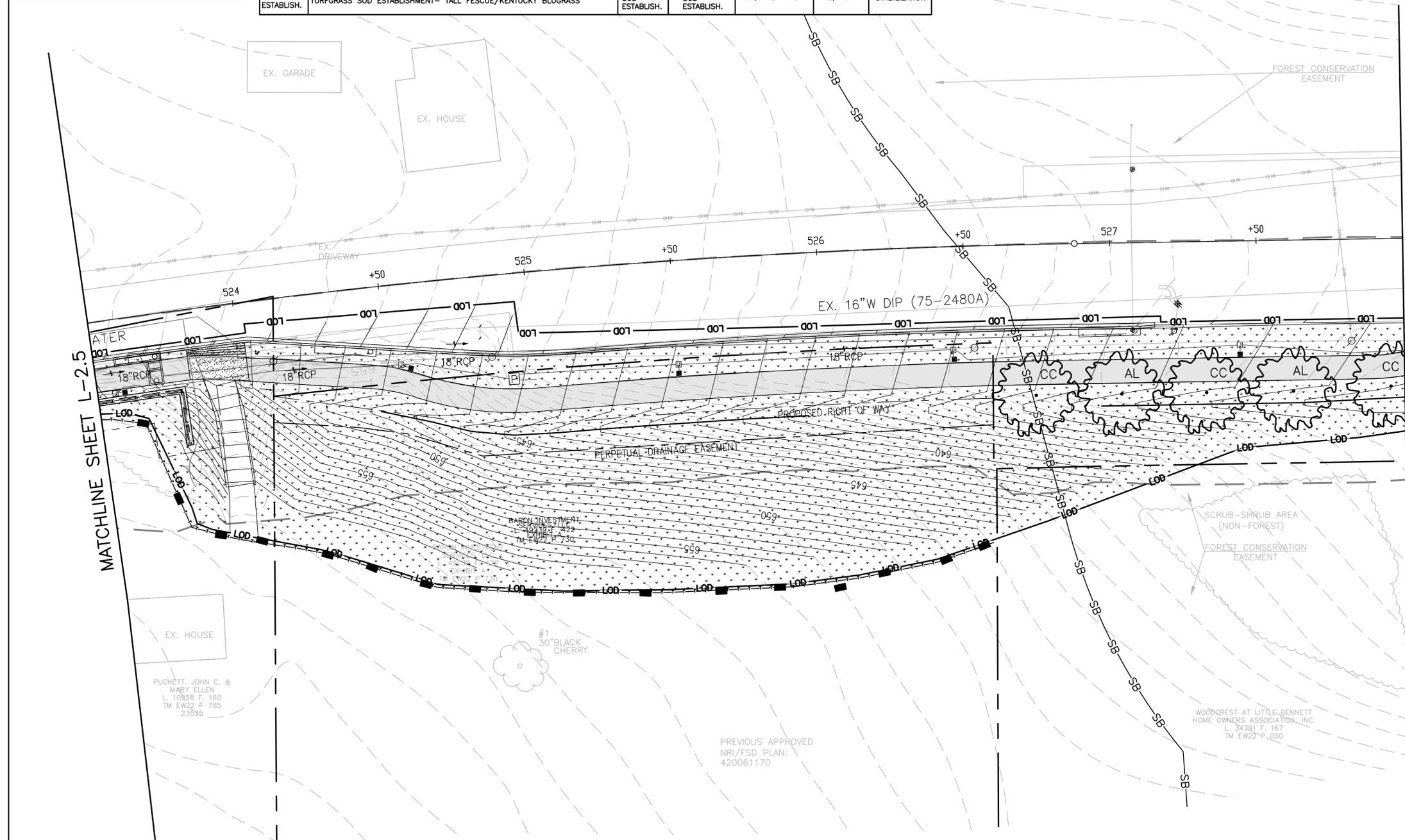
LEGEND

- RED OAK
- PROPOSED CANOPY TREE
- LIMITS OF DISTURBANCE
- PROPOSED GRADE
- EXISTING PROPERTY BOUNDARY
- PROPOSED RIGHT-OF-WAY
- STORM DITCH W/ FLOWLINE
- EX. CONTOUR
- EXISTING STREAM
- EXISTING WETLAND BOUNDARY
- 25' WETLAND BOUNDARY
- 75' WETLAND BOUNDARY
- EXISTING EASEMENT
- PROPOSED SHARED USE PATH
- TURFGRASS SOD ESTABLISHMENT
- PROPOSED LIGHT POLES
- TREE PROTECTION FENCE (TEMPORARY)
- TEMPORARY COMBINED ROOT PRUNE TRENCH/TREE PROTECTION FENCE
- TEMPORARY TREE PROTECTION SIGNAGE (APPROX. 20' O.C.)

NOTE:
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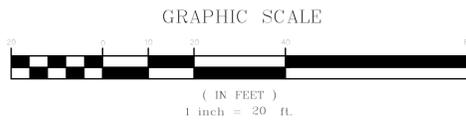
DRILL HOLES



MISS UTILITY
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. BEFORE EXCAVATION THE CONTRACTOR IS RESPONSIBLE FOR CALLING TICKET CHECK AT 1-866-821-4226 TO VERIFY THAT ALL UTILITIES HAVE BEEN MARKED, 48 HOURS AFTER CALLING MISS UTILITY. THE EXCAVATOR IS RESPONSIBLE FOR COMPLIANCE WITH REQUIREMENTS OF CHAPTER 36A OF THE MONTGOMERY COUNTY CODE.

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WATER CLASS	I,P/IV,P	WATERSHED	LITTLE SENECA CREEK	FEMA FLOODPLAIN MAP PANEL #	24031C 0160D
TRIBUTARY	ROCK CREEK			ADC MAP PAGE	9
TAX MAP	EW341,EW121	2008 SHEET	233NW13, 233NW12	GRID	B-3, C-3,4
SCALE	AS SHOWN	DATE	MARCH 2021	PROJ. NO.	15-138
				SHEET NO.	L-2.6

DATUM: NAD 83/91 HORIZONTAL
NAVD 88 VERTICAL

RECOMMENDED FOR APPROVAL

Chief, Design Section _____ Date _____
APPROVED

Chief, Division of Engineering Services _____ Date _____

Designed by : B.P. Drawn by : B.P. Checked by : M.N.

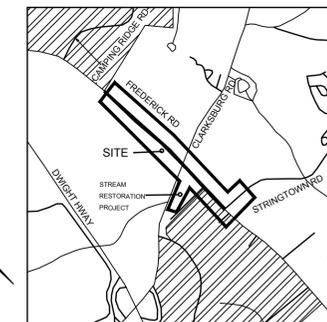
PLAN SHEET L-2.6
LANDSCAPE PLAN

MD 355 - CLARKSBURG
SHARED USE PATH

Project No. : C.I.P. PR. #501744 SHEET 82 of 97

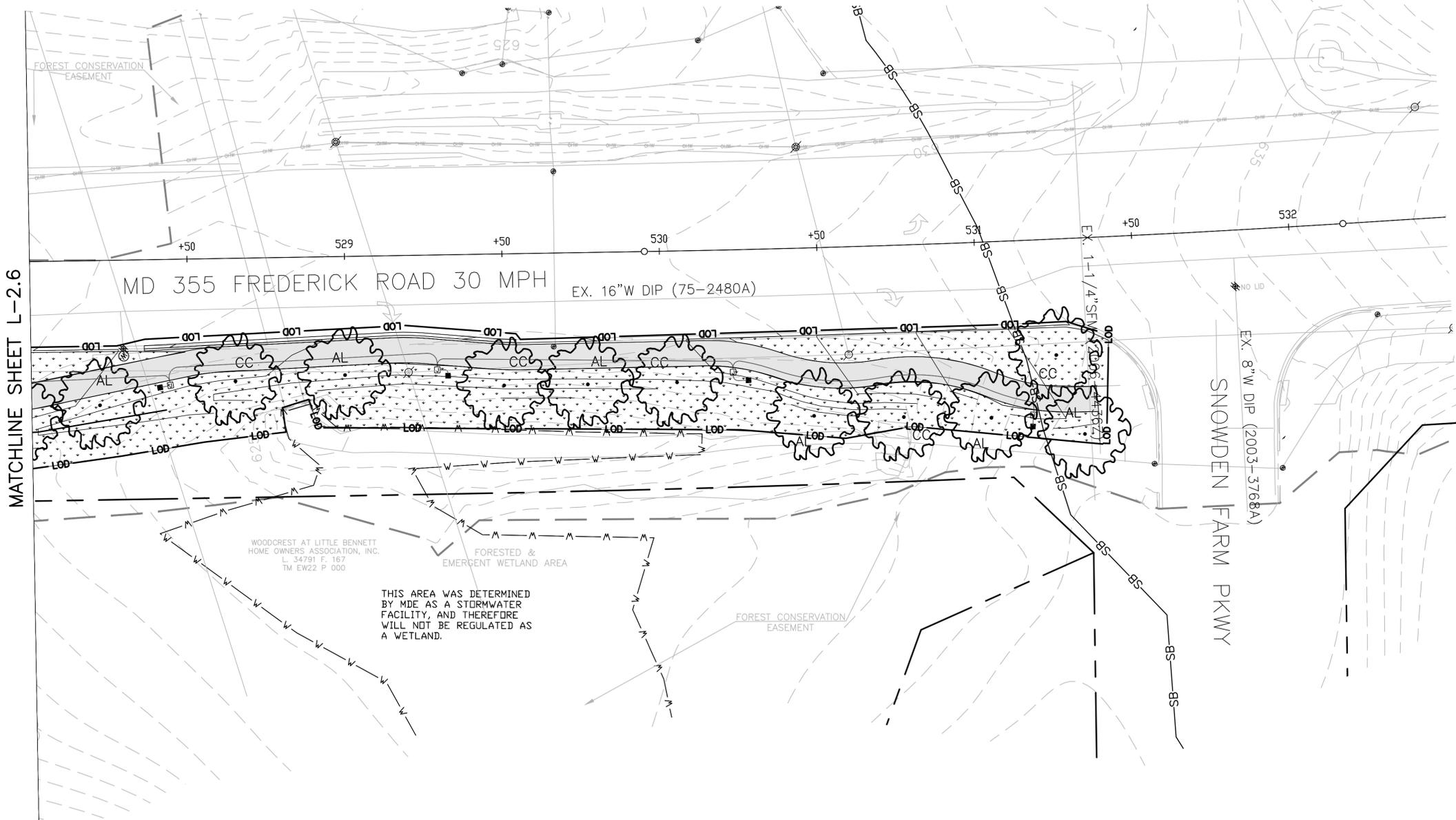
SITE LANDSCAPE PLANT SCHEDULE

KEY	BOTANICAL NAME	COMMON NAME	SIZE	FORM	SPACING	QUANTITY	COMMENTS
TREES							
CC	CERCIS CANADENSIS	EASTERN REDBUD	5-6' HT.	B&B	20' O.C.	5	
AL	AMELANCHIER LAEVIS 'SNOWCLOUD'	SNOWCLOUD SERVICEBERRY	5-6' HT.	B&B	20' O.C.	6	
SEED MIXES							
TURFGRASS SOD ESTABLISH.	TURFGRASS SOD ESTABLISHMENT- TALL FESCUE/KENTUCKY BLUGRASS		TURFGRASS SOD ESTABLISH.	TURFGRASS SOD ESTABLISH.	SQUARE YARD	1,286	STABILIZATION



LEGEND

- 14" RED OAK EXISTING TREE
- PROPOSED CANOPY TREE
- LIMITS OF DISTURBANCE
- PROPOSED GRADE
- EXISTING PROPERTY BOUNDARY
- PROPOSED RIGHT-OF-WAY
- STORM DITCH W/ FLOWLINE
- EX. CONTOUR
- EXISTING STREAM
- EXISTING WETLAND BOUNDARY
- 25' WETLAND BOUNDARY
- 75' WETLAND BOUNDARY
- EXISTING EASEMENT
- PROPOSED SHARED USE PATH
- TURFGRASS SOD ESTABLISHMENT
- PROPOSED LIGHT POLES
- TREE PROTECTION FENCE (TEMPORARY)
- TEMPORARY COMBINED ROOT PRUNE TRENCH/TREE PROTECTION FENCE
- TEMPORARY TREE PROTECTION SIGNAGE (APPROX. 20' O.C.)

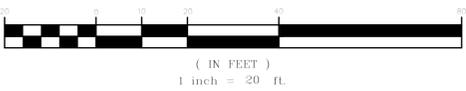


DRILL HOLES

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. BEFORE EXCAVATION THE CONTRACTOR IS RESPONSIBLE FOR CALLING TICKET CHECK AT 1-866-821-4226 TO VERIFY THAT ALL UTILITIES HAVE BEEN MARKED, 48 HOURS AFTER CALLING MISS UTILITY. THE EXCAVATOR IS RESPONSIBLE FOR COMPLIANCE WITH REQUIREMENTS OF CHAPTER 36A OF THE MONTGOMERY COUNTY CODE.

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GRAPHIC SCALE



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WATER CLASS	I,P/IV,P	WATERSHED	LITTLE SENECA CREEK	FEMA FLOODPLAIN MAP PANEL #	24031C 0160D
TRIBUTARY	ROCK CREEK			ADC MAP PAGE	9
TAX MAP	EW341,EW121	2008 SHEET	233NW13, 233NW12	GRID	B-3, C-3,4
SCALE	AS SHOWN	DATE	MARCH 2021	PROJ. NO.	15-138
				SHEET NO.	L-2.7

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 : B.P. Drawn by : B.P. Checked by : M.N.

PLAN SHEET L-2.7
LANDSCAPE PLAN

MD 355 - CLARKSBURG
SHARED USE PATH

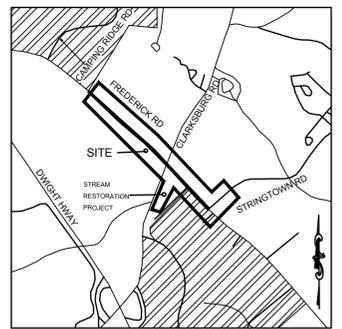
Project No. : C.I.P. PR. #501744 SHEET 83 of 97



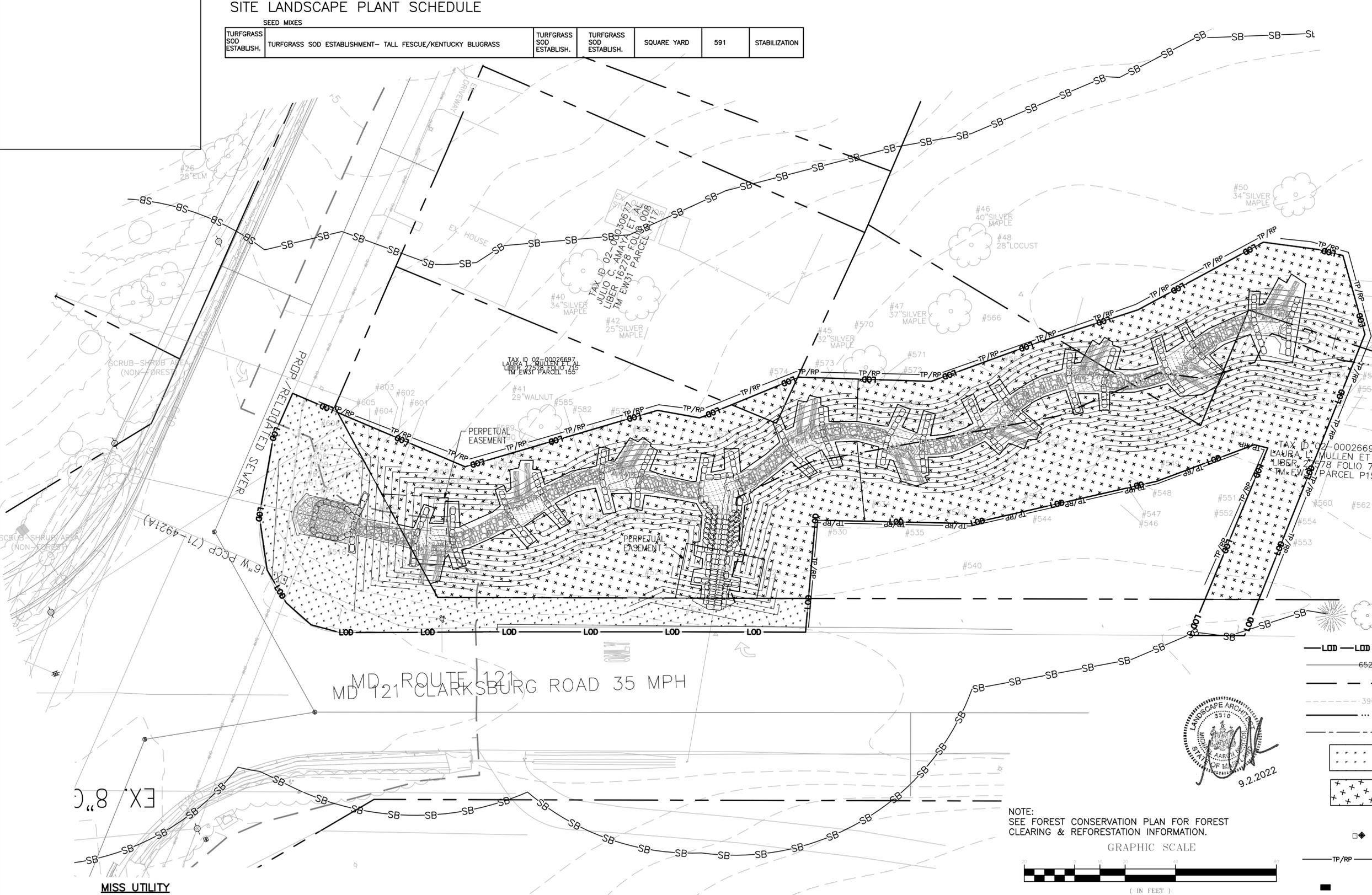
NOTE: SEE FOREST CONSERVATION PLAN FOR FOREST CLEARING & REFORESTATION INFORMATION.

SITE LANDSCAPE PLANT SCHEDULE

SEED MIXES		TURFGRASS SOD ESTABLISH.	TURFGRASS SOD ESTABLISH.	SQUARE YARD	591	STABILIZATION
TURFGRASS SOD ESTABLISH.	TURFGRASS SOD ESTABLISHMENT- TALL FESCUE/KENTUCKY BLUEGRASS	TURFGRASS SOD ESTABLISH.	TURFGRASS SOD ESTABLISH.			



DRILL HOLES



LEGEND

- 14\"/>
- LIMITS OF DISTURBANCE
- PROPOSED GRADE
- EXISTING PROPERTY BOUNDARY
- EX. CONTOUR
- EXISTING STREAM
- EXISTING EASEMENT
- TURFGRASS SOD ESTABLISHMENT
- REFORESTATION AREA
- PROPOSED LIGHT POLES
- TEMPORARY COMBINED ROOT PRUNE TRENCH/TREE PROTECTION FENCE
- TEMPORARY TREE PROTECTION SIGNAGE (APPROX. 20' O.C.)

NOTE: SEE FOREST CONSERVATION PLAN FOR FOREST CLEARING & REFORESTATION INFORMATION.

GRAPHIC SCALE



MISS UTILITY
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TRIBUTARY	ROCK CREEK			ADC MAP PAGE	9
TAX MAP	EW341,EW121	200 SHEET	232NW13, 233NW13	GRID	B-3, C-3,4
SCALE	AS SHOWN	DATE	MARCH 2021	PROJ. NO.	15-138
				SHEET NO.	L-2.8

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 : B.P. Drawn by : B.P. Checked by : M.N.

PLAN SHEET L-2.8
LANDSCAPE PLAN - MD 121

MD 355 - CLARKSBURG
SHARED USE PATH

Project No. : C.I.P. PR. #501744 SHEET 84 of 97

DRILL HOLES

DRILL HOLES

DRILL HOLES

7.1 SHA LANDSCAPE NOTES:
Landscape construction within rights of way of the Maryland State Highway Administration (SHA) and within SHA property, easement areas and lands to be conveyed to SHA shall conform to these Notes. For guidance regarding design modifications during construction, refer to SHA Landscape Design Guide, SHA Landscape Estimating Manual, and SHA Environmental Guide for Access and District Permit Applicants at <http://www.roads.maryland.gov/index.aspx?PageId=25>

7.2 SHA Standard Specifications:
Landscape construction shall conform to Sections 701 through 716, and landscape materials shall conform to Section 920 of the most recent revision of SHA Standard Specifications for Construction and Materials, including all revisions and supplements, and as specified in these notes. These requirements shall supersede all other specifications for work on SHA property. All SHA specifications for landscaping and landscape materials published in 2008 have been replaced. Current Specifications are at <http://www.roads.maryland.gov/Indexes.aspx?PageId=44>.

7.3 Erosion and Sediment Control Manager (ESCM):
Soil disturbance such as grading, excavation, soil placement or other activities that involve soil disturbance shall be supervised by an ESCM Manager with a valid "SHA Yellow Card" in conformance with SHA Standard Specifications and any applicable Erosion and Sediment Control Permit.

7.4 SHA Standard Details for Trees, Shrubs and Planting Beds:
The installation of trees, shrubs, planting beds and other landscape construction related to Section 710 of the SHA Standard Specifications shall conform to the "SHA Book of Standards for Highway & Incidental Structures - Category 7" at <http://apps.roads.maryland.gov/BusinessWithSHA/bizStdsSpecs/desManualStdPub/publicationsonline/ohd/bookstd/tocc/at7.asp>.

7.5 Temporary Stabilization:
Shall be installed in conformance with Section 704 to ensure that areas of soil disturbance are protected from wind, rainfall and flowing water until permanent stabilization is installed:
1. Temporary Mulch, either as temporary straw mulch or temporary matting mulch, shall be installed at the end of each working day to provide "same day stabilization" unless other approved stabilization is installed.
2. Temporary straw mulch shall be installed on areas and slopes flatter than 4:1; temporary matting mulch shall be applied on slopes 4:1 and steeper, and to areas within channels.
3. Temporary Seed shall be installed in lieu of Temporary Mulch when soil redisturbance is expected more than 30 days after soil disturbance. The required application rate shall be 100 lbs per acre of 37-0-0 (SCU) fertilizer.

7.6 Roadway Pavement Removal:
Areas of roadway pavement removal shall be excavated to remove pavements, aggregate base, and compacted soil to a minimum depth of 10 inches below the pavement surface, or as necessary to remove all materials unsuitable for landscaping. The excavated areas shall be restored with subsoil and topsoil as part of Soil Restoration.

7.7 Excavation and Debris Removal:
Debris related to the demolition of sidewalks, driveways, curbs, trees, stumps, roots, fencing, pipes, and other materials that may interfere with landscape installation or future maintenance shall be excavated as necessary for their complete removal and disposal.

7.8 Soil Restoration:
Areas of pavement removal, excavation or drilling in landscaped areas shall remove excavated debris and restore the subgrade with approved subsoil and topsoil placed in conformance with Section 701 of the SHA Standard Specifications.
1. A layer of approved topsoil of at least a 4-inch depth shall be placed on all disturbed areas flatter than 2:1 and in all channels prior to seeding, sodding or other landscaping, unless otherwise specified.
2. A layer of approved topsoil of at least a 2-inch depth shall be placed on all disturbed areas 2:1 and steeper prior to seeding, sodding or other landscaping, unless otherwise specified.
3. Bioretention Soil Mix (BSM) and other materials installed in conjunction with SPI 316 - Stormwater Filtration Facilities and SHA stormwater details shall be installed in conformance with SHA Landscape Notes and landscape plans. Plant materials and mulch shall be installed in BSM in conformance with stormwater details, Section 710 or other SHA Specifications.

7.9 Turfgrass Sod Establishment:
Shall be performed in all disturbed areas, or within the areas indicated in the plans, in conformance with Section 708 of the SHA Standard Specifications. The required application rate of 20-16-12 fertilizer shall be 200 lbs per acre, and no fertilizer shall be applied from November 15 to March 1.

7.11 Soil Stabilization Matting:
Shall be installed in conformance with Section 709 of the SHA Standard Specifications, in conjunction with Turfgrass Establishment per Section 705 or Meadow Establishment per Section 707 as follows:
1. Areas Flatter than 6:1. Type A or Type E matting may be installed in lieu of straw mulch and hydromulch binder in conjunction with Turfgrass Establishment.
2. Areas Steeper than 6:1 and Flatter than 4:1. Type A or Type E matting shall be installed in lieu of straw mulch and hydromulch binder in conjunction with Turfgrass Establishment, unless delineated and noted otherwise.
3. Channels, Stormwater Management Facilities, and Slopes 4:1 and Steeper Type A Soil Stabilization Matting shall be installed in lieu of straw mulch and hydromulch binder in conjunction with Turfgrass Establishment, unless delineated and noted otherwise.

7.13 Tree Preservation Areas:
Temporary Orange Construction Fence (TOCF) shall be installed in locations delineated on the plans as Tree Preservation Areas (TPA) in conformance with Section 120 of the SHA Standard Specification to protect existing trees and other vegetation during construction. Areas within TOCF shall be protected from all prohibited and restricted activities, per Section 120.

7.14 Roadside Tree Permit:
Tree removal, tree installation, tree root and branch pruning, and other regulated impacts to trees in the SHA right of way shall conform to the requirements of the Roadside Tree Permit (RTP) issued by the Maryland Department of Natural Resources, or the approved Forest Conservation Plan (FCP) of the local authority.
1. A copy of the RTP or FCP shall be submitted to the SHA Office of Environmental Design before work is performed, and a copy of the RTP or FCP shall be reproduced in the plans or be in possession of the applicant at the project site when the permitted work is performed.
2. A Maryland Licensed Tree Expert shall perform the specified tree operations in conformance with the SHA Standard Specifications and ANSI A300 Standards for Tree Care Operations.

7.15 Trees and Other Plant Material Installation:
Trees, shrubs, perennials, annuals, bulbs, landscape beds, bark mulch and similar materials shall be installed in conformance with Section 710 and 711 of the SHA Standard Specifications. Tree and shrubs shall be pruned at the time of installation to ensure sidewalk clearance for pedestrians is maintained to a height of 8 feet. No tree or shrub shall be installed within 3 feet of curbs, sidewalks, or pavement edges

7.21 Tree Branch Pruning:
Shall be performed or directly supervised by a Maryland Licensed Tree Expert in conformance with ANSI A300 standards per Section 712 as necessary for any of the following: To install Temporary Orange Construction Fence (TOCF) along delineations on plans; to perform Tree Root Pruning along delineations on plans; to provide 8-foot clearance above sidewalk pavements and 16-foot clearance above roadway pavements; to repair tree wounds; and to perform other recommended cleaning, thinning, reducing, and pruning necessary to accommodate utilities. All debris shall be removed from SHA property

7.22 Tree Root Pruning:
Shall be performed along the line shown on the plans in conformance with Section 715. Tree Root Pruning shall be completed before beginning excavation or construction adjacent to trees to be preserved.

7.23 Tree Fertilizing:
Shall be performed in conformance with Operation 3 - Broadcast Fertilizing per Section 716. 20-16-12 fertilizer shall be applied to the soil surface under the dripline of trees at the rate of 200 lbs. per acre.

7.25 Future Maintenance:
Additional maintenance that may be required after hardscape, street furniture or plant materials are installed and accepted by SHA such as replacement, watering, weeding, mulching or pest control may be provided by the applicant when a permit for the proposed work is issued by the SHA District Office.

MISS UTILITY

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TRIBUTARY	ROCK CREEK			ADC MAP PAGE	9 CRID B-3.4
TAX MAP	EW341,EW121	2008 SHEET	232NW13,233NW13		
SCALE	AS SHOWN	DATE	MARCH 2021	PROJ. NO.	15-138
				SHEET NO.	LS-2.9



MASTER SITE LANDSCAPE PLANT SCHEDULE

KEY	BOTANICAL NAME	COMMON NAME	SIZE	FORM	SPACING	QUANTITY	COMMENTS			
TREES										
CC	CERCIS CANADENSIS	EASTERN REDBUD	5-6' HT.	B&B	20' O.C.	19				
AL	AMELANCHIER LAEVIS 'SNOWCLOUD'	SNOWCLOUD SERVICEBERRY	5-6' HT.	B&B	20' O.C.	18				
SEED MIXES										
TURFGRASS SOD ESTABLISH.	TURFGRASS SOD ESTABLISHMENT- TALL FESCUE/KENTUCKY BLUGRASS					TURFGRASS SOD ESTABLISH.	TURFGRASS SOD ESTABLISH.	SQUARE YARD	9,042	STABILIZATION

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

PLAN SHEET L-2.9
LANDSCAPE - NOTES
MD 355 - CLARKSBURG
SHARED USE PATH

DATUM: NAD 83/91 HORIZONTAL
NAVD 88 VERTICAL

NO.	REVISION	DATE	BY

RECOMMENDED FOR APPROVAL
Chief, Design Section
APPROVED _____ Date _____
Chief, Division of Engineering Services
APPROVED _____ Date _____
Designed by : B.P. Drawn by : B.P. Checked by : M.N.

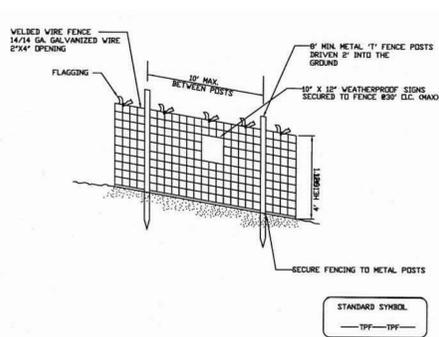
DRILL HOLES

DRILL HOLES

DRILL HOLES

Tree Protection Fence Detail

Not to scale

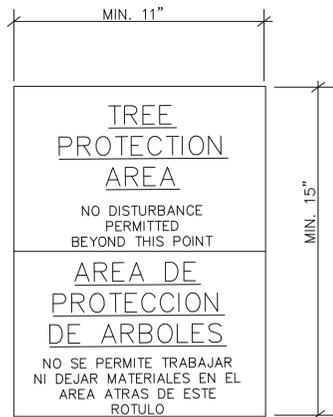


NOTES

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

Montgomery County Planning Department • M-NCPPC
MontgomeryPlanning.org

FOREST RETENTION AREA SIGNAGE



NOTE:

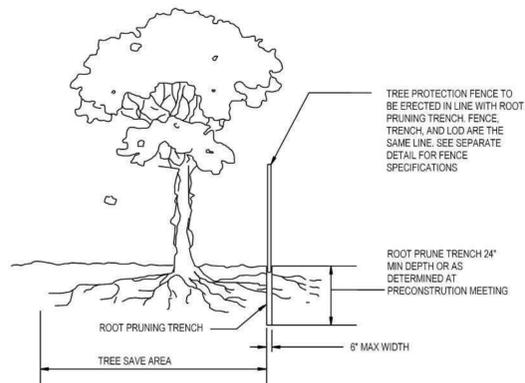
- SIGNAGE FOR FOREST RETENTION AREA TO BE PLACED 30" O.C. WHEN PLACED ON FENCE
- Attachment of signs to trees is prohibited.
 - Signs should be properly maintained.
 - Avoid injury to roots when placing posts for the signs.

MISS UTILITY

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. BEFORE EXCAVATION THE CONTRACTOR IS RESPONSIBLE FOR CALLING TICKET CHECK AT 1-866-821-4226 TO VERIFY THAT ALL UTILITIES HAVE BEEN MARKED, 48 HOURS AFTER CALLING MISS UTILITY. THE EXCAVATOR IS RESPONSIBLE FOR COMPLIANCE WITH REQUIREMENTS OF CHAPTER 36A OF THE MONTGOMERY COUNTY CODE.

NORTON LAND DESIGN
LANDSCAPE ARCHITECTURE + ENVIRONMENTAL PLANNING
5146 DORSEY HALL DRIVE, 2ND FLOOR ELLICOTT CITY, MD 21042
BALT.443.542.9199 x101 DC.240.342.2329x101 WWW.NORTONLANDDESIGN.COM

*NOTE: TREE CONSERVATION MEASURES, SUCH AS ROOT PRUNING, BRANCH PRUNING, TREE FERTILIZING, AND OTHER MEASURES PRESCRIBED BY THE PROJECT'S ARBORIST AT THE TIME OF THE LOD LAYOUT AND/OR INSTALLATION OF E&S MEASURES, MAY BE REQUIRED ALONG THE LINE OF CUT/FILL. DECISIONS ON TREE PROTECTION MEASURES MUST BE AGREED UPON BY A M-NCPPC FOREST CONSERVATION INSPECTOR BEFORE INSTALLATION.

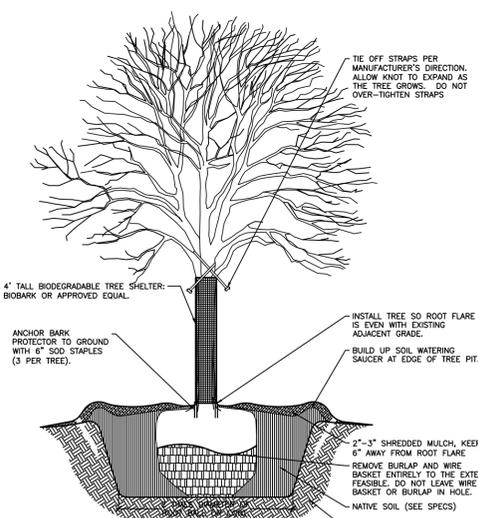


NOTES:

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

ROOT PRUNING DETAIL

NTS



NOTES

- DEER PROTECTION MUST BE REMOVED FOLLOWING WARRANTY PERIOD.
- PLANTING HOLE SHALL BE DIG BY BACKHOE OR OTHER MACHINE AND FINISHED BY HAND.
- IF SURROUNDING SOIL IS COMPACTED AS DETERMINED BY M-NCPPC CONSTRUCTION MANAGER, AN AREA UP TO 5 TIMES THE DIAMETER OF THE ROOT MASS SHALL BE EXCAVATED OR ROTOTILLED TO A 1' DEPTH AND SOIL SHALL BE AMENDED.
- PRUNE ONLY DEAD, DECAYING, BROKEN, CROSSING OR INWARD GROWING BRANCHES. NEVER DAMAGE OR CUT LEADER.

DECIDUOUS TREE PLANTING DETAIL

SCALE: NOT TO SCALE



WATER CLASS I,P/IV,P	WATERSHED LITTLE SENECA CREEK	FEMA FLOODPLAIN MAP PANEL # 24031C 0160D
TRIBUTARY ROCK CREEK		
TAX MAP EW341,EW121	2008 SHEET 232NW13, 233NW13	ADC MAP PAGE 9 GRID B-3,4
SCALE AS SHOWN	DATE MARCH 2021	PROJ. NO. 15-138
		SHEET NO. LS-2.10

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 : B.P.	Drawn by : B.P.
Checked by : M.N.	

PLAN SHEET L-2.10 LANDSCAPE - DETAILS

MD 355 - CLARKSBURG SHARED USE PATH

Project No. : C.I.P. PR. #501744 SHEET 86 of 97

GRADING TABLE

SUMMARY OF EARTHWORK

ROADWAY	EXCAVATION																				EMBANKMENT					
	STATIONS		CLASS 2		CLASS 1		EROSION & SEDIMENT		EMBANKMENT																	
	FROM	TO	CUT FROM XSECTS	TOPSOIL CUT	TOPSOIL FILL	ROOTMAT CUT	ROOTMAT FILL	TOTAL	SUITABLE FOR EMBANK.	LOSS DUE TO HANDLING	AVAIL FOR EMBANK.	TOTAL FROM XSECS	SHRINK/SWELL FACTOR (%)	AVAIL FOR EMBANK.	ORIGINAL EXCAVATION	CLEAN-OUT EXCAVATION	FILL FROM XSECT	TOT. REQ. BEFORE DENSIFICATION	CAPPING	BORROW	SELECT BORROW FROM XSECT	TOT. REQ. AFTER DENSIFICATION				
STAGE 1	PS-01																									
	494+26	498+00	46	3	110	0	0	156	43	9	34	0	0.85	0	0	0	217	326	0	0	0	0				
	700+75	703+10	112	0	0	0	0	112	112	22	90	0	0.85	0	0	0	6	6	0	0	0	0				
	PS-02																									
	498+00	501+50	87	0	49	0	0	136	87	17	70	0	0.85	0	0	0	63	111	0	0	0	0				
	PS-03																									
501+50	505+00	48	0	0	0	0	48	48	10	38	0	0.85	0	0	0	41	41	0	0	0	0					
STAGE 1 - TOTAL			293	3	159	0	0	452	290	58	232	0		0	0	0	327	484	0	0	0	0				

EXCAVATION

TOTAL CLASS 1 EXCAVATION	6,819	C.Y.
TOTAL CLASS 2 EXCAVATION	452	C.Y.
TOTAL CLASS 5 EXCAVATION	1,380	C.Y.
TOTAL EXCAVATION AVAILABLE FOR EMBANKMENT	6,216	C.Y.
TOTAL EROSION & SEDIMENT CONTROL EXCAVATION	0	C.Y.

EMBANKMENT

TOTAL COMMON BORROW REQUIRED	1,291	C.Y.
TOTAL CAPPING BORROW REQUIRED	0	C.Y.
TOTAL SELECT BORROW REQUIRED	0	C.Y.
WASTE	5,177	C.Y.
COMMON BORROW REQUIRED	252	C.Y.
BORROW DENSIFIED (20%)	50	C.Y.
TOTAL COMMON BORROW REQUIRED	302	C.Y.

PROPOSAL QUANTITIES

CLASS 1 EXCAVATION	6,900	C.Y.
CLASS 1-A EXCAVATION	690	C.Y.
CLASS 2 EXCAVATION	460	C.Y.
CLASS 5 EXCAVATION	1,400	C.Y.
COMMON BORROW	400	C.Y.
GEOSYNTHETIC STABILIZED SUBGRADE USING GRADED AGGREGATE BASE	690	C.Y.
CAPPING BORROW	0	C.Y.
SELECT BORROW	0	C.Y.

ROADWAY	EXCAVATION																				EMBANKMENT					
	STATIONS		CLASS 1		CLASS 2		EROSION & SEDIMENT		EMBANKMENT																	
	FROM	TO	CUT FROM XSECTS	TOPSOIL CUT	TOPSOIL FILL	ROOTMAT CUT	ROOTMAT FILL	TOTAL	SUITABLE FOR EMBANK.	SHRINK/SWELL FACTOR (%)	AVAIL FOR EMBANK.	TOTAL FROM XSECS	LOSS DUE TO HANDLING	AVAIL FOR EMBANK.	ORIGINAL EXCAVATION	CLEAN-OUT EXCAVATION	FILL FROM XSECT	TOT. REQ. BEFORE DENSIFICATION	CAPPING	BORROW	SELECT BORROW FROM XSECT	TOT. REQ. AFTER DENSIFICATION				
STAGE 2	PS-04																									
	514+50	519+00	229	0	0	85	142	371	144	0.85	123	0	0	0	0	0	146	289	0	0	0	0				
	PS-05																									
	519+00	523+50	2,618	0	0	333	45	2,663	2,284	0.85	1,942	0	0	0	0	0	25	70	0	0	0	0				
	PS-06																									
	523+50	528+00	3,588	364	70	40	7	3,665	3,183	0.85	2,706	0	0	0	0	0	20	98	0	0	0	0				
PS-07																										
528+00	532+50	48	0	72	0	0	120	47	0.85	40	0	0	0	0	0	73	145	0	0	0	0					
STAGE 2 - TOTAL			6,483	364	142	458	194	6,819	5,658		4,811	0	0	0	0	0	264	602	0	0	0	0				

ROADWAY	EXCAVATION																				EMBANKMENT					
	STATIONS		CLASS 1		CLASS 5		EROSION & SEDIMENT		EMBANKMENT																	
	FROM	TO	CUT FROM XSECTS	TOPSOIL CUT	TOPSOIL FILL	ROOTMAT CUT	ROOTMAT FILL	TOTAL	SUITABLE FOR EMBANK.	SHRINK/SWELL FACTOR (%)	AVAIL FOR EMBANK.	TOTAL FROM XSECS	LOSS DUE TO HANDLING	AVAIL FOR EMBANK.	ORIGINAL EXCAVATION	CLEAN-OUT EXCAVATION	FILL FROM XSECT	TOT. REQ. BEFORE DENSIFICATION	CAPPING	BORROW	SELECT BORROW FROM XSECT	TOT. REQ. AFTER DENSIFICATION				
STREAM RESTORATION	SR-01																									
	199+20	196+80	0	0	0	0	0	0	0	0.85	0	1,380	207	1,173	0	0	205	205	0	0	0	0				
TOTAL			0	0	0	0	0	0	0	0.85	0	1,380	207	1,173	0	0	205	205	0	0	0	0				

STREAM RESTORATION

EXCAVATION

TOTAL CLASS 1 EXCAVATION	0	C.Y.
TOTAL CLASS 2 EXCAVATION	0	C.Y.
TOTAL CLASS 5 EXCAVATION	1,380	C.Y.
TOTAL EXCAVATION AVAILABLE FOR EMBANKMENT	1,173	C.Y.
TOTAL EROSION & SEDIMENT CONTROL EXCAVATION	0	C.Y.

EMBANKMENT

TOTAL COMMON BORROW REQUIRED	205	C.Y.
TOTAL CAPPING BORROW REQUIRED	0	C.Y.
TOTAL SELECT BORROW REQUIRED	0	C.Y.
WASTE	4,209	C.Y.
COMMON BORROW REQUIRED	0	C.Y.
BORROW DENSIFIED (20%)	0	C.Y.
TOTAL COMMON BORROW REQUIRED	0	C.Y.

STAGE 1 SHARED USE PATH CONSTRUCTION

EXCAVATION

TOTAL CLASS 1 EXCAVATION	0	C.Y.
TOTAL CLASS 2 EXCAVATION	452	C.Y.
TOTAL EXCAVATION AVAILABLE FOR EMBANKMENT	232	C.Y.
TOTAL EROSION & SEDIMENT CONTROL EXCAVATION	0	C.Y.

EMBANKMENT

TOTAL COMMON BORROW REQUIRED	484	C.Y.
TOTAL CAPPING BORROW REQUIRED	0	C.Y.
TOTAL SELECT BORROW REQUIRED	0	C.Y.
WASTE	0	C.Y.
COMMON BORROW REQUIRED	252	C.Y.
BORROW DENSIFIED (20%)	50	C.Y.
TOTAL COMMON BORROW REQUIRED	302	C.Y.

STAGE 2 SHARED USE PATH CONSTRUCTION

EXCAVATION

TOTAL CLASS 1 EXCAVATION	6,819	C.Y.
TOTAL CLASS 2 EXCAVATION	0	C.Y.
TOTAL EXCAVATION AVAILABLE FOR EMBANKMENT	4,811	C.Y.
TOTAL EROSION & SEDIMENT CONTROL EXCAVATION	0	C.Y.

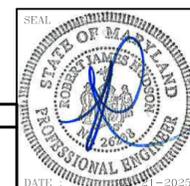
EMBANKMENT

TOTAL COMMON BORROW REQUIRED	602	C.Y.
TOTAL CAPPING BORROW REQUIRED	0	C.Y.
TOTAL SELECT BORROW REQUIRED	0	C.Y.
WASTE	4,209	C.Y.
COMMON BORROW REQUIRED	0	C.Y.
BORROW DENSIFIED (20%)	0	C.Y.
TOTAL COMMON BORROW REQUIRED	0	C.Y.



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.
ROBERT J. HUDSON MD No-26238 EXP-08/17/2025



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

FOR SIGNATURES SEE TITLE SHEET

Chief, Design Section

Date

APPROVED

FOR SIGNATURES SEE TITLE SHEET

Chief, Division of Engineering Services

Date

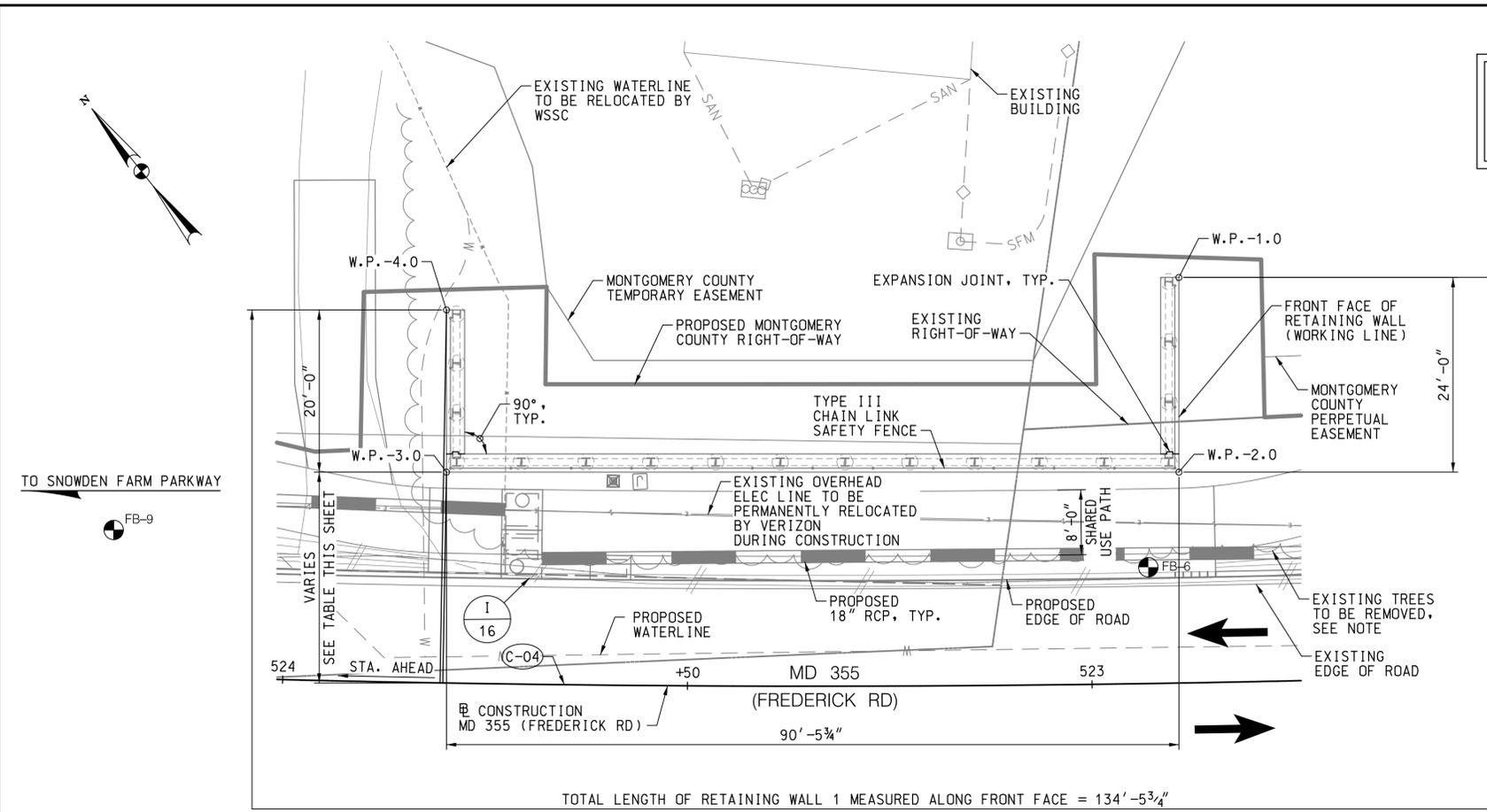
Designed by : N.D.K. Drawn by : S.A.T. Checked by : S.H.D.

PLAN SHEET GR-01
GRADING TABLE & SUMMARY OF EARTHWORK
MD 355 - CLARKSBURG
SHARED USE PATH

SCALE: N.T.S.

02/2025

Project No. : C.I.P. PR. # 501744 SHEET 87 of 97

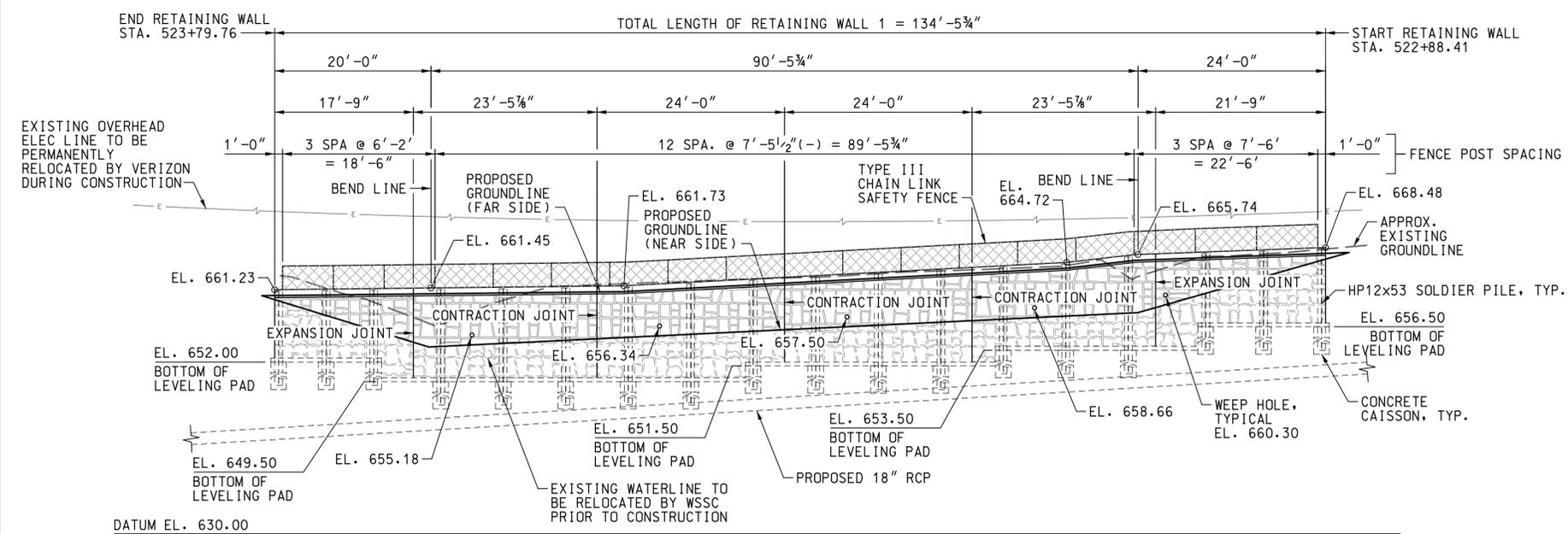


GENERAL NOTES:

- SPECIFICATIONS:** MDOT SHA STANDARD SPECIFICATIONS FOR CONSTRUCTION AND MATERIALS, DATED JULY 2024.
- DESIGN:** AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS, DATED 2020.
- CONCRETE:** CONCRETE COMPRESSIVE STRENGTH FOR DESIGN SHALL BE:
 $f'c = 3000$ PSI FOR ELEMENTS USING MIX NO. 3
 $f'c = 3000$ PSI FOR ELEMENTS USING MIX NO. 4
 $f'c = 4000$ PSI FOR ELEMENTS USING MIX NO. 6
- CONCRETE FACING SHALL BE MIX NO. 3 (3500 PSI).
 CONCRETE CAISSONS SHALL BE MIX NO. 4 (3500 PSI).
 PRECAST CONCRETE LAGGING SHALL BE MIX NO. 6 (4500 PSI).
- REINFORCING STEEL:** REINFORCING STEEL SHALL CONFORM TO ASTM 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 AS NOTED WITH AN EP IN THE PLANS.
- MINIMUM CLEAR COVER FOR REINFORCING STEEL SHALL BE 2" FOR REINFORCED CONCRETE OR 1 1/2" FOR PRECAST CONCRETE, UNLESS OTHERWISE NOTED.
- FOR TIES AND STIRRUPS, STANDARD ACI BENDING TOLERANCES ARE MODIFIED TO PLUS (+) ZERO INCHES, MINUS (-) NORMAL ACI BENDING TOLERANCES.
- STRUCTURAL STEEL:** NEW STRUCTURAL STEEL SHALL CONFORM TO A709, GRADE 50. INCLUDING THE ADDITIONAL REQUIREMENTS FOR CHARPY V-NOTCH TESTING OF M270, FOR PRIMARY LOAD CARRYING MEMBERS. REFER TO SECTION 909.01.
- ALL HARDWARE SHALL BE GALVANIZED FOLLOWING ASTM A123.

PLAN
SCALE: 1" = 10'

WORKING POINT DATA				
MARK	STATION	OFFSET	NORTHING	EASTING
W.P.-1.0	522+88.41	49.99' RT.	574,170.2520	1,231,604.5600
W.P.-2.0	522+88.83	25.99' RT.	574,151.4458	1,231,589.6494
W.P.-3.0	523+80.21	25.99' RT.	574,207.6598	1,231,518.7486
W.P.-4.0	523+80.56	45.98' RT.	574,223.3517	1,231,531.1741



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 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.
 DAVID A. LABELLA MD NO-22185 EXP-12/06/2026

STATE OF MARYLAND
 PROFESSIONAL ENGINEER
 DAVID A. LABELLA
 No. 22185
 REGISTERED PROFESSIONAL ENGINEER
 DATE: 02/21/2025

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

RECOMMENDED FOR APPROVAL
 FOR SIGNATURES SEE TITLE SHEET
 Chief, Design Section
 APPROVED
 FOR SIGNATURES SEE TITLE SHEET
 Chief, Division of Engineering Services

DATUM: NAD 83/91 HORIZONTAL
 NAVD 88 VERTICAL

Designed by: P.F.E. Drawn by: P.F.E. Checked by: M.E.D.

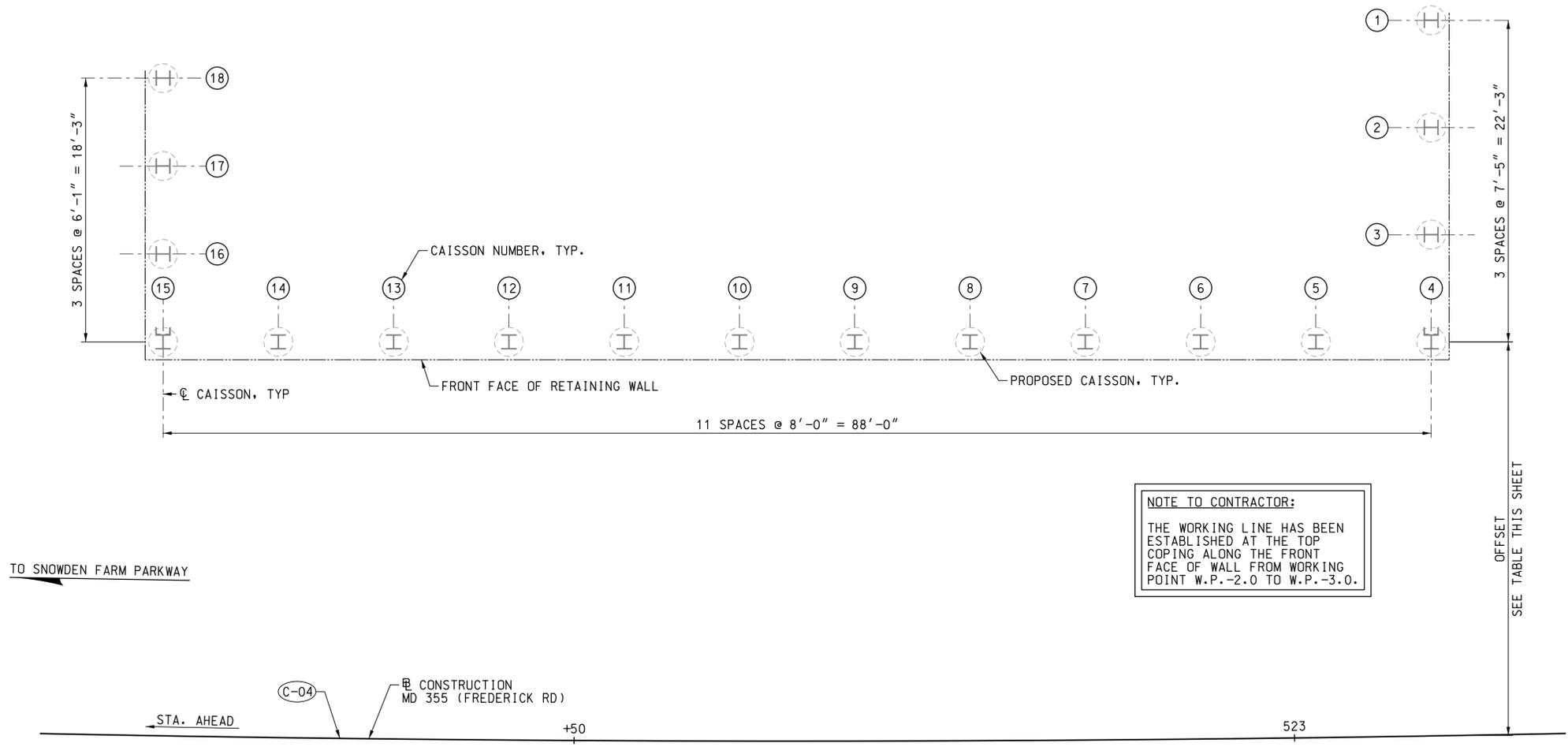
PLAN SHEET RW1-1
STRUCTURE NO. 150497R02
GENERAL PLAN AND ELEVATION
MD 355 - CLARKSBURG
SHARED USE PATH

SCALE: AS NOTED 02/2025

Project No.: C.I.P. PR. # 501744 SHEET 88 of 97

NOTE:
 ORIENTATION OF THIS VIEW DOES NOT MATCH THE ORIENTATION OF THE HIGHWAY PLANS.

CAISSON SCHEDULE					
CAISSON NUMBER	STATION	OFFSET	WALL SECTION	TOP OF CAISSON ELEV.	BOTTOM OF CAISSON ELEV.
1	522+89.69	49.50 RT.	HP12x53	656.50	644.50
2	522+89.81	42.09 RT.	HP12x53	656.50	644.50
3	522+89.94	34.67 RT.	HP12x53	656.50	644.50
4	522+90.06	27.25 RT.	HP12x53	653.50	641.50
5	522+98.15	27.37 RT.	HP12x53	653.50	641.50
6	523+06.23	27.47 RT.	HP12x53	653.50	641.50
7	523+14.31	27.54 RT.	HP12x53	651.50	639.50
8	523+22.40	27.59 RT.	HP12x53	651.50	639.50
9	523+30.48	27.62 RT.	HP12x53	651.50	639.50
10	523+38.56	27.62 RT.	HP12x53	651.50	639.50
11	523+46.65	27.59 RT.	HP12x53	649.50	637.50
12	523+54.73	27.54 RT.	HP12x53	649.50	637.50
13	523+62.82	27.47 RT.	HP12x53	649.50	637.50
14	523+70.90	27.37 RT.	HP12x53	649.50	637.50
15	523+78.98	27.25 RT.	HP12x53	649.50	637.50
16	523+79.11	33.33 RT.	HP12x53	652.00	640.00
17	523+79.24	39.42 RT.	HP12x53	652.00	640.00
18	523+79.38	45.50 RT.	HP12x53	652.00	640.00



NOTE TO CONTRACTOR:
 THE WORKING LINE HAS BEEN ESTABLISHED AT THE TOP COPING ALONG THE FRONT FACE OF WALL FROM WORKING POINT W.P.-2.0 TO W.P.-3.0.

- CAISSON INSTALLATION NOTES:**
- EXCAVATED SHAFTS FOR CAISSONS BY AUGURING TO THE MINIMUM ELEVATION SPECIFIED IN THE TABLE ON THIS SHEET. IF SUBSURFACE MATERIAL CANNOT BE DRILLED USING HOLLOW STEM AUGURS, THEN CORE DRILLING PROCEDURES WILL BE REQUIRED.
 - INSTALL STEEL CASINGS AS EXCAVATION PROCEEDS. CASINGS SHALL BE FULL LENGTH AND WATER TIGHT AND SHALL BE SUFFICIENT TO WITHSTAND ALL STRESSES AND MAINTAIN THE SHAFT WALLS.
 - WITHDRAW CASINGS AS CONCRETE IS PLACED.
 - PERFORM DRILLING AND PLACEMENT OF CONCRETE FOR CAISSONS IN A STAGGERED PATTERN SUCH THAT THE ADJACENT CAISSONS ARE NOT OPEN SIMULTANEOUSLY.
 - DRILLED SHAFT TOLERANCES SHALL BE IN ACCORDANCE WITH SECTION 412 OF MDOT SHA STANDARD SPECIFICATIONS.

GEOMETRIC AND FOOTING LAYOUT
 SCALE: 1" = 5'

C-04
CURVE DATA
 DELTA = 10° 44' 32.5" RT.
 Dc = 2° 09' 20.6"
 R = 2,658.00'
 L = 498.35'
 T = 249.91'
 CH = 497.62'
 E = 11.72'

NOTE:
 FOR GENERAL PLAN AND ELEVATION, SEE DRAWING RW1-1

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 DAVID A. LABELLA MD NO-22185 EXP-12/06/2026



NO.	REVISION	DATE	BY

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

RECOMMENDED FOR APPROVAL
 FOR SIGNATURES SEE TITLE SHEET
 Chief, Design Section _____ Date _____
APPROVED
 FOR SIGNATURES SEE TITLE SHEET
 Chief, Division of Engineering Services _____ Date _____

Designed by : P.F.E. Drawn by : P.F.E. Checked by : M.E.D.

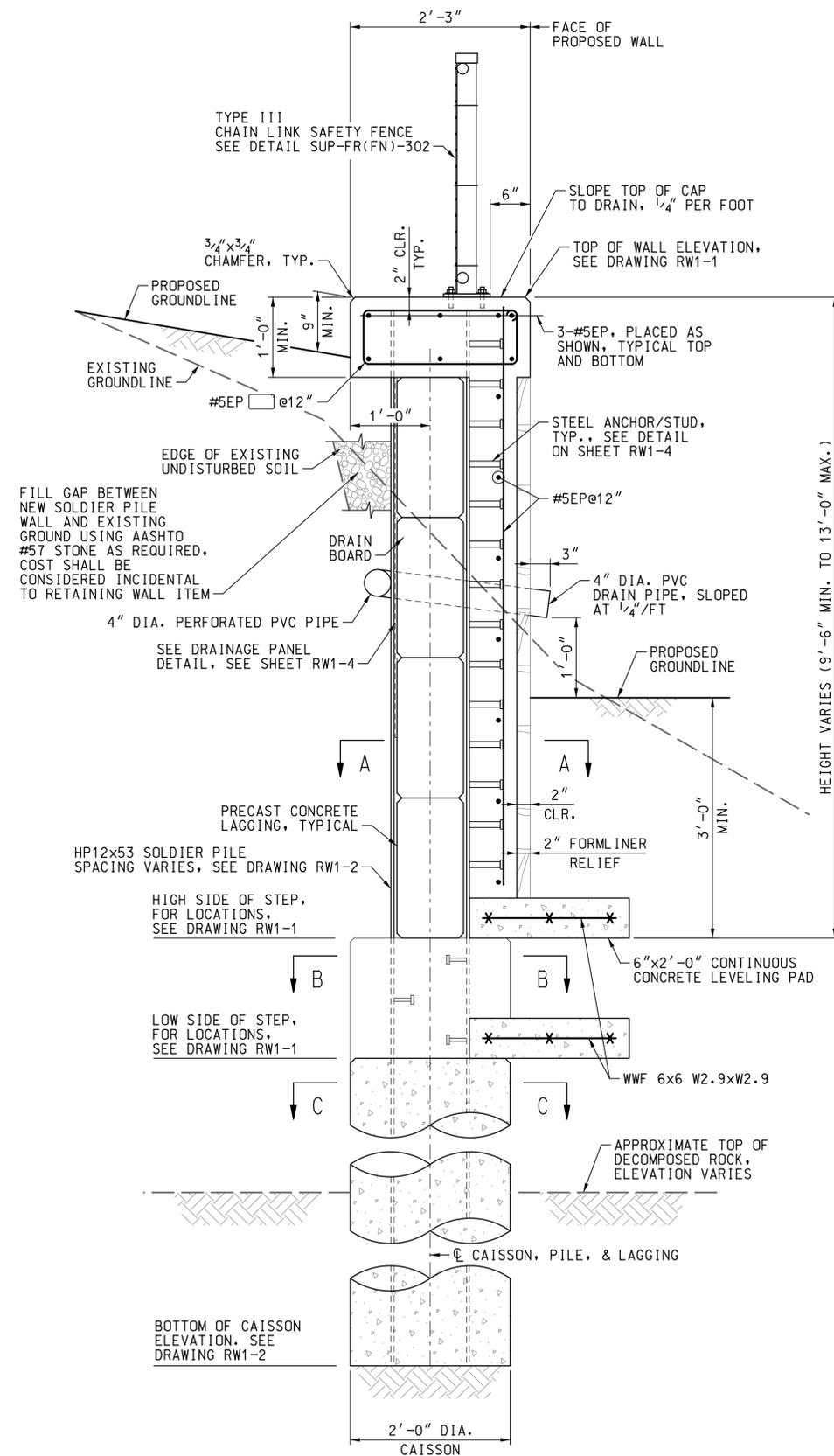
PLAN SHEET RW1-2
STRUCTURE NO. 150497R02
GEOMETRIC AND FOOTING LAYOUT
MD 355 - CLARKSBURG
SHARED USE PATH

SCALE: AS NOTED 02/2025
 Project No. : C.I.P. PR. # 501744 SHEET 89 of 97

STRUCTURE INVENTORY NO. 150497R02

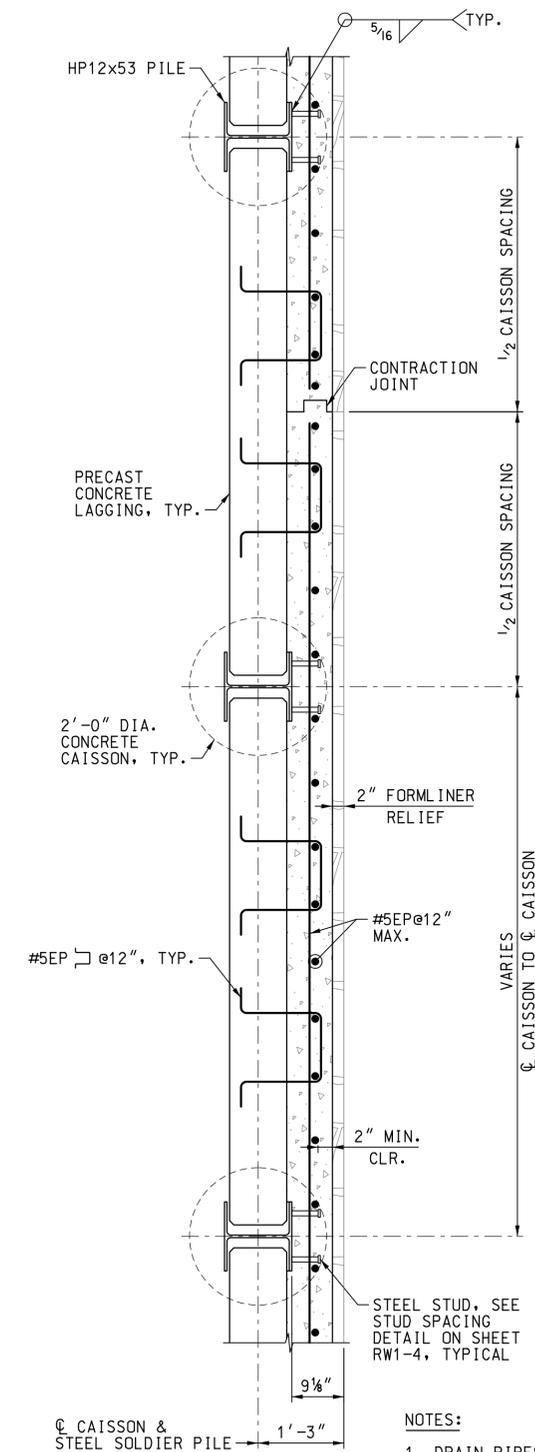
SURVEY BOOK NO.

PLOTTED: 6/12/2025
 FILE: M:\PROJ\214013.0010\Structures\Cadd\pBR-GL01_M355.dgn



SOLDIER PILE RETAINING WALL TYPICAL SECTION

SCALE: 1" = 1'-0"



SECTION A-A

SCALE: 3/4" = 1'-0"

NOTES:

1. DRAIN PIPES NOT SHOWN FOR CLARITY. ALL REINFORCING IN FASCIA SHALL BE PLACED TO MISS DRAIN PIPES.
2. FOR PRECAST LAGGING DETAILS, SEE SHEET RW1-5.

WALLACE MONTGOMERY
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 DAVID A. LABELLA MD NO-22185 EXP-12/06/2026



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	
FOR SIGNATURES SEE TITLE SHEET	Date
Chief, Design Section	
APPROVED	
FOR SIGNATURES SEE TITLE SHEET	Date
Chief, Division of Engineering Services	
Designed by : P.F.E.	Drawn by : P.F.E.
Checked by : M.E.D.	

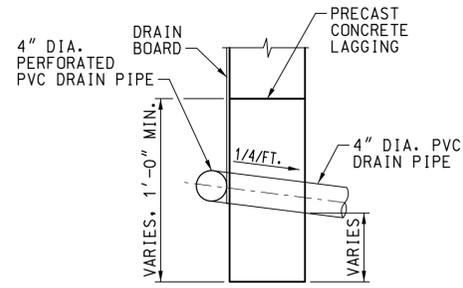
PLAN SHEET RW1-3
 STRUCTURE NO. 150497R02
 TYPICAL SECTION
MD 355 - CLARKSBURG
SHARED USE PATH

SCALE: AS NOTED
 Project No. : C.I.P. PR. # 501744 SHEET 90 of 97

STRUCTURE INVENTORY NO. 150497R02

SURVEY BOOK NO.

PLOTTED: 6/18/2025
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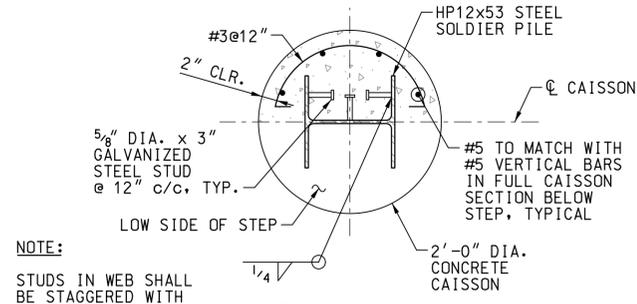


DRAINAGE PANEL DETAIL

SCALE: 1" = 1'-0"

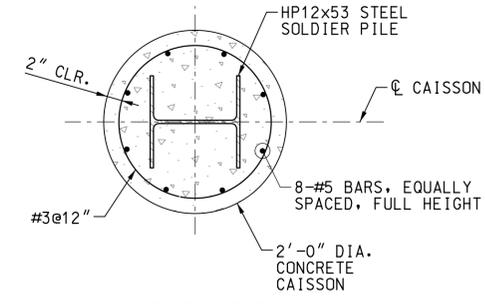
NOTE:

DETAILS FOR ATTACHING DRAIN BOARD TO PVC DRAIN SHALL BE PREPARED BY CONTRACTOR AND SUBMITTED FOR APPROVAL.



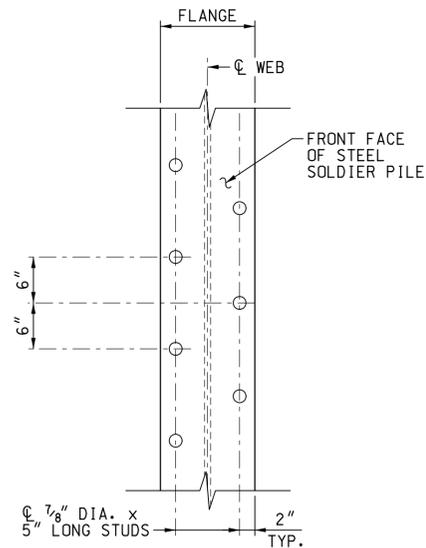
**SECTION B-B
CAISSON STEP REINFORCEMENT**

SCALE: 1" = 1'-0"



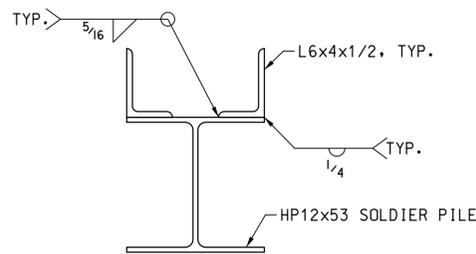
**SECTION C-C
CAISSON REINFORCEMENT DETAIL**

SCALE: 1" = 1'-0"



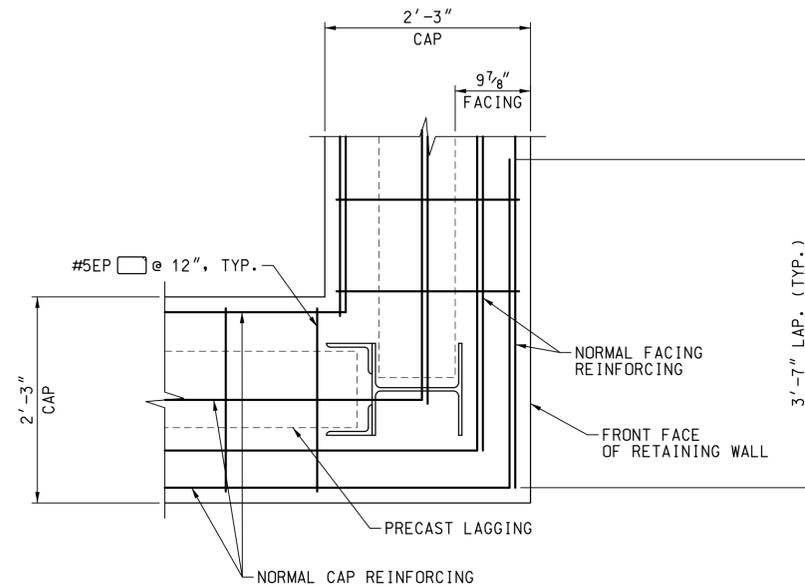
STUD SPACING DETAIL

SCALE: 1" = 1'-0"



LAGGING CONNECTION DETAIL

SCALE: 1 1/2" = 1'-0"



**PLAN
WALL CORNER REINFORCING DETAIL**

SCALE: 1" = 1'-0"

RETAINING WALL SEQUENCE OF CONSTRUCTION:

1. AUGUR HOLES FOR PROPOSED CAISSONS. SEE CAISSON INSTALLATION NOTES ON SHEET RW1-2.
2. INSTALL STEEL SOLDIER PILES AND PLACE CONCRETE IN CAISSON TO THE SPECIFIED ELEVATION.
3. INSTALL PRECAST LAGGING AND BACKFILL BEHIND WALL.
4. POUR REMAINDER OF CONCRETE FACING AND CAP FOR THE WALL.
5. INSTALL NEW CHAIN LINK FENCE ON TOP OF RETAINING WALL.

WALLACE MONTGOMERY
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10150 York Road, Suite 200
Hunt Valley, Maryland 21030
410.494.9093 Tel / 410.667.0925 Fax
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I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND.
DAVID A. LABELLA MD NO-22185 EXP-12/06/2026

SEAL
STATE OF MARYLAND
DAVID A. LABELLA
REGISTERED PROFESSIONAL ENGINEER
No. 22185
EXPIRES 12/06/2026
DATE: 02/21/2025

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
FOR SIGNATURES SEE TITLE SHEET
Chief, Design Section
Date

APPROVED
FOR SIGNATURES SEE TITLE SHEET
Chief, Division of Engineering Services
Date

Designed by: **R.E.P.** Drawn by: **E.R.W.** Checked by: **D.E.D.**

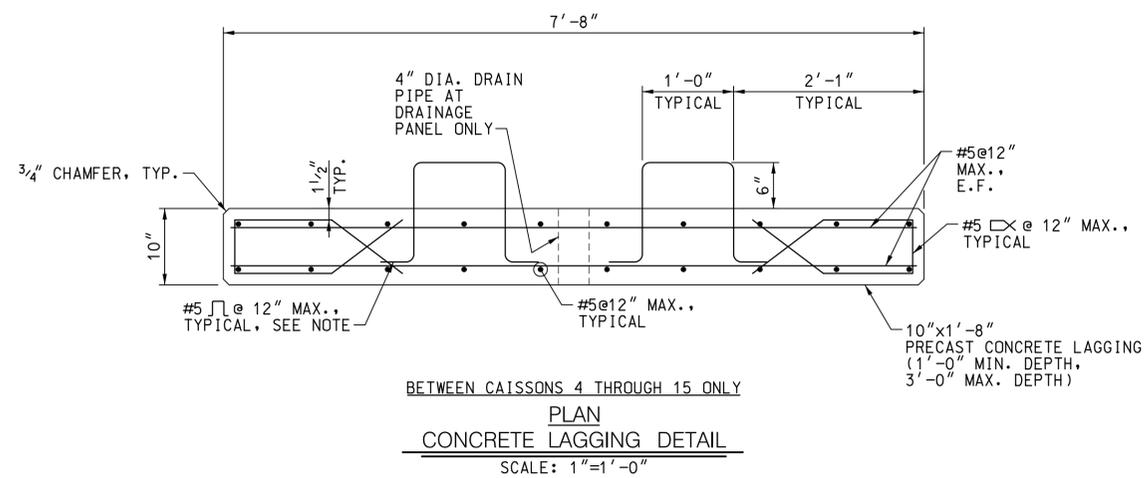
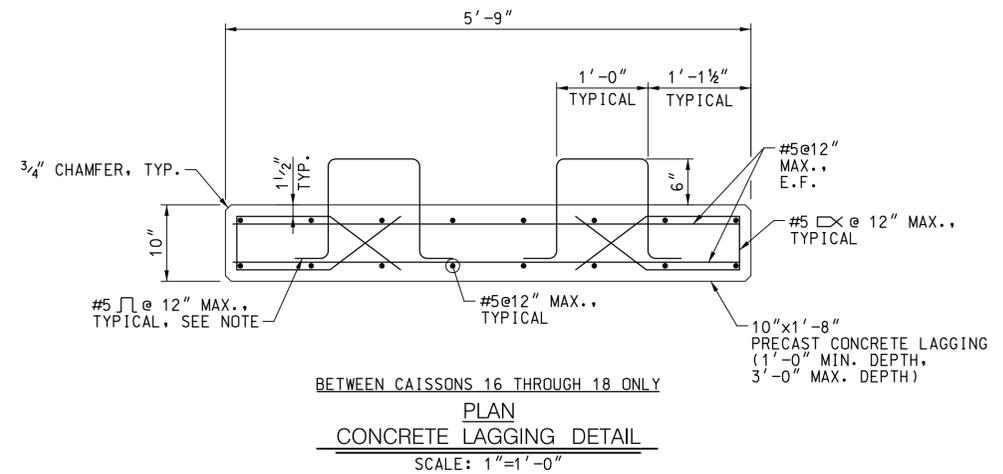
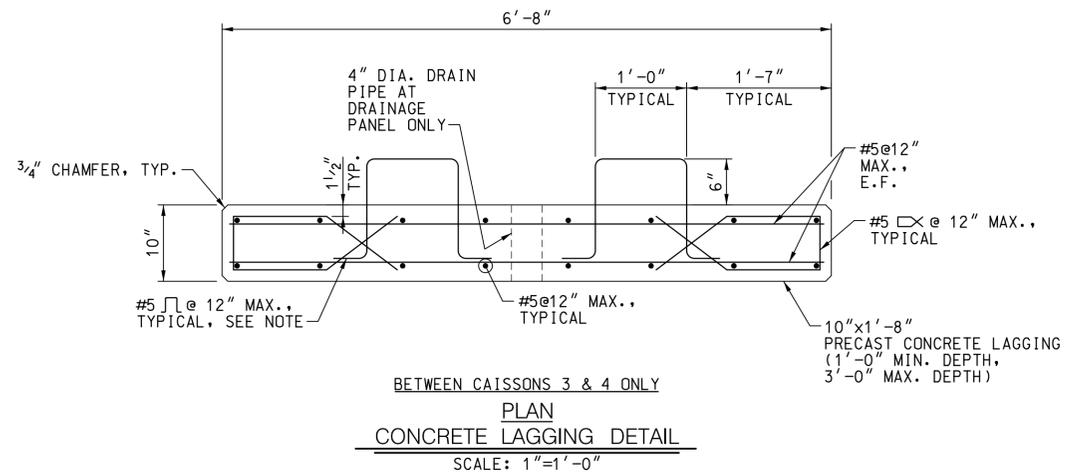
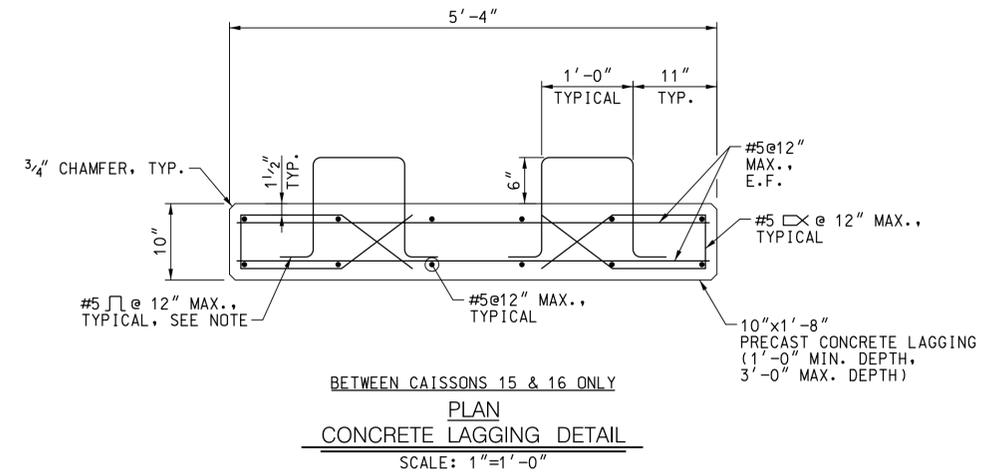
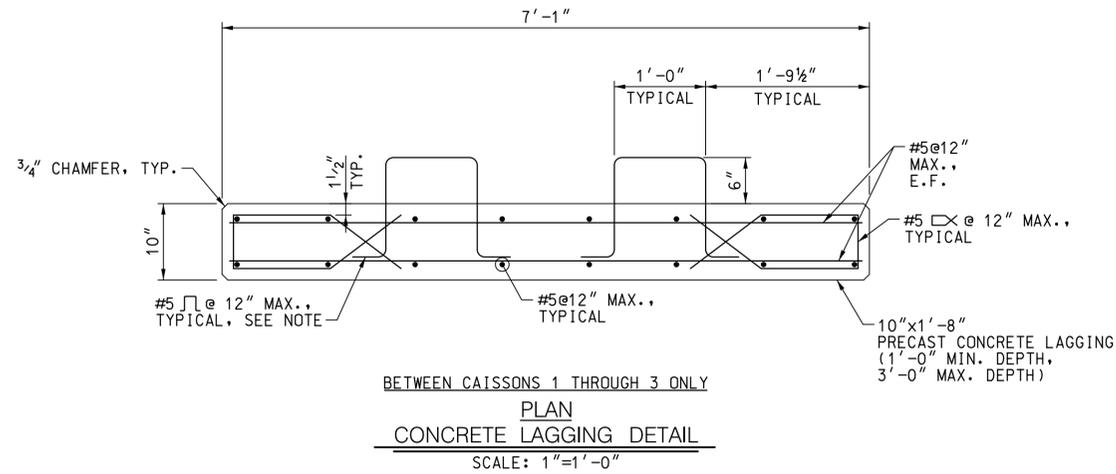
**PLAN SHEET RW1-4
STRUCTURE NO. 150497R02
DETAILS
MD 355 - CLARKSBURG
SHARED USE PATH**

Project No.: C.I.P. PR. # 501744 SHEET 91 of 97

STRUCTURE
INVENTORY NO. 150497R02

SURVEY
BOOK NO.

PLOTTED: 6/12/2025
FILE: M:\PROJ\214013.0010\Structures\Cadd\pBR-DE02_M355.dgn



NOTE:

1. STIRRUPS SHALL NOT BE USED IN LAGGING AT CONTRACTION AND EXPANSION JOINT LOCATIONS.
2. FABRICATOR SHALL PROVIDE LIFTING DEVICES FOR EACH LAGGING PANEL. LIFTING DEVICES SHALL NOT BE LOCATED AT DRAIN HOLES. TYPE AND SIZE SHALL BE APPROVED BY THE ENGINEER.
3. ALL REINFORCING STEEL IN PRECAST LAGGING SHALL BE EPOXY COATED.

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 DAVID A. LABELLA MD NO-22185 EXP-12/06/2026



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

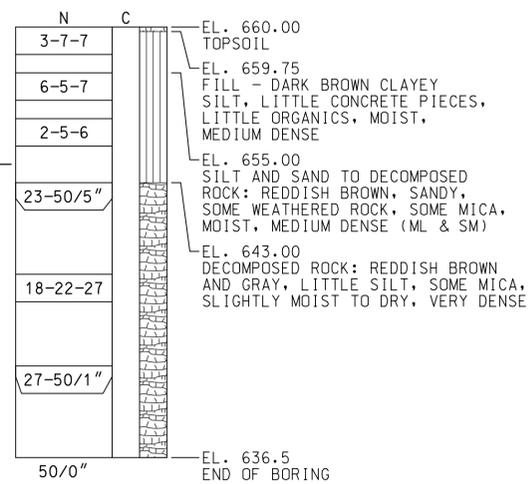
RECOMMENDED FOR APPROVAL
 FOR SIGNATURES SEE TITLE SHEET
 Chief, Design Section _____ Date _____
 APPROVED
 FOR SIGNATURES SEE TITLE SHEET
 Chief, Division of Engineering Services _____ Date _____

Designed by : P.F.E. Drawn by : P.F.E. Checked by : M.E.D.

PLAN SHEET RW1-5
 STRUCTURE NO. 150497R02
 LAGGING DETAILS
MD 355 - CLARKSBURG
 SHARED USE PATH

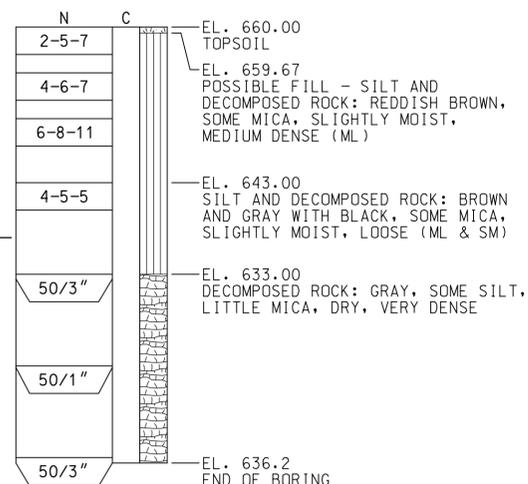
Project No. : C.I.P. PR. # 501744 SHEET 92 of 97

BORING FB-6
STA. 522+92.83 - 14.33' RT.



BOTTOM OF CAISSON EL. VARIES
SEE CAISSON SCHEDULE ON SHEET RW1-2

BORING FB-9
STA. 524+21.47 - 17.84' RT.

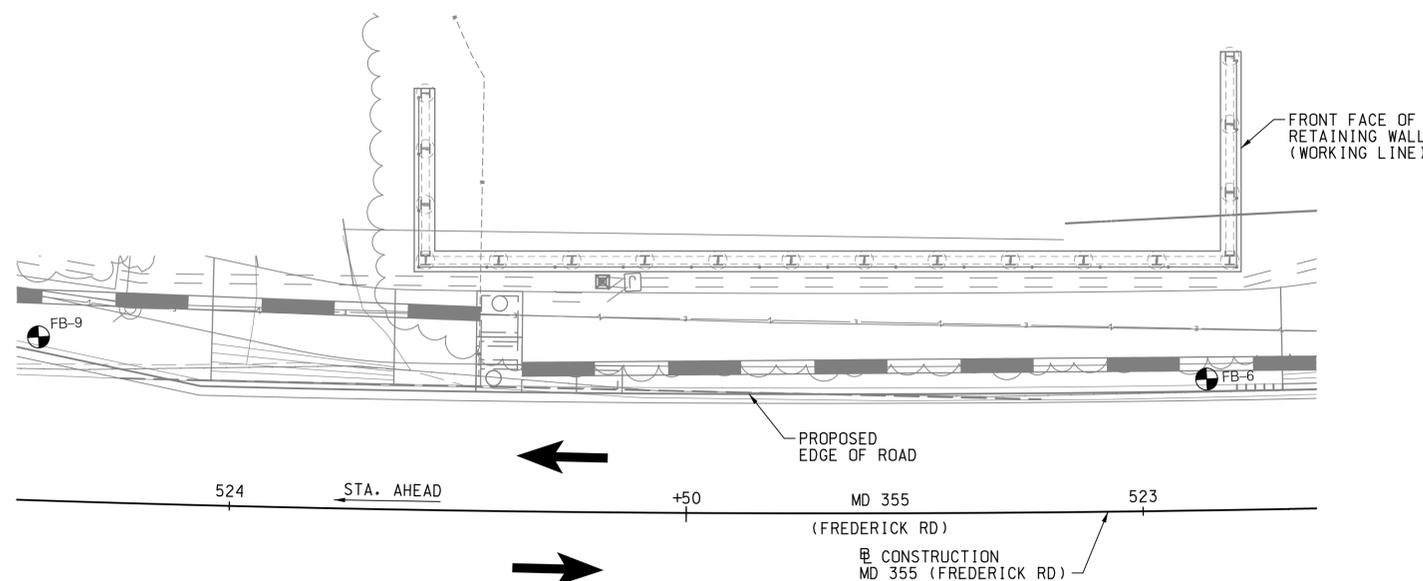


BOTTOM OF CAISSON EL. VARIES
SEE CAISSON SCHEDULE ON SHEET RW1-2

DATUM EL. 630.00

BORINGS AND DRIVE TESTS

SCALE: 1" = 5'



BORING LOCATION PLAN

SCALE: 1" = 10'

NOTES:

1. THE CORING, BORINGS AND DRIVE TESTS WERE TAKEN BY CONNELLY AND ASSOCIATES, INC. ON 7/27/2018.
2. THE BORING LOG SOIL SYMBOLS REFLECT ONLY THE MAJOR SOIL CONSTITUENT. FOR MORE COMPLETE SOIL CHARACTERISTICS REFER TO THE SOIL DESCRIPTIVE TEXT.
3. THE FIELD BORING LOGS RECORD SAMPLE SPOON RECOVERY. THE LOGS ARE AVAILABLE UPON REQUEST. THE MATERIAL RECOVERED FROM THE SITE INVESTIGATION IS AVAILABLE FOR REVIEW. CONTACT THE FIELD EXPLORATIONS DIVISION AT 1-866-926-8501.
4. N = BLOWS ON A 2 INCH ID SPLIT-BARREL SAMPLING SPOON BY 140 LB. DRIVE-WEIGHT FALLING 30 INCHES INDICATING SUCCESSIVE 6 INCH INCREMENTS OF PENETRATION IN LIEU OF BLOWS PER FOOT. PENETRATIONS LESS THAN 6 INCHES ARE INDICATED BY BLOWS OVER THE NEAREST INCH.
5. C = DEPTH OF HOLLOW-STEM CONTINUOUS FLIGHT AUGERS WITH 3.25 INCH ID.
6. BORINGS AND SAMPLINGS CONFORM AASHTO DESIGNATIONS T-207 AND T-307.
7. THE SOIL HAS BEEN CLASSIFIED VISUALLY BY THE DRILLER.
8. BORING LOCATION

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DATUM: NAD 83/91 HORIZONTAL
NAVD 88 VERTICAL



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

RECOMMENDED FOR APPROVAL

FOR SIGNATURES SEE TITLE SHEET

APPROVED

FOR SIGNATURES SEE TITLE SHEET

Chief, Division of Engineering Services

Date

Date

PLAN SHEET RW1-6
STRUCTURE NO. 150497R02
BORING LOCATION PLAN
MD 355 - CLARKSBURG
SHARED USE PATH

SCALE: AS NOTED

02/2025

GENERAL NOTES

Specifications: Latest SHA Specifications and Special Provisions for materials and construction. Latest AASHTO Standard Specifications for Highway Bridges for design.

Materials: Posts and rails shall conform to ASTM F-1083, Schedule 80. Fabric shall be 6 gauge, 2" PVC coated mesh conforming to 914.01.

All posts, braces, fittings and hardware shall be PVC coated. Coating shall conform to 914.03 except that nuts, bolts and washers shall also be PVC coated and touched up after installation.

All plates shall be steel conforming to ASTM A 709 Grade 36.

Anchor studs or anchor bolts shall conform to ASTM A 276, Type 430 or Type 304 stainless steel annealed, hot-finished, ultimate strength 70 000 psi min., 20% min. elongation. Threads may be rolled or cut.

Epoxy grout for anchor studs in cored holes shall conform to 902.11 (d).

PVC color for all elements of fence shall be black unless otherwise noted.

Construction: All longitudinal rails shall be parallel to top of wall.

All posts shall be set normal to top of wall for roadway grades 6% or less. For grades over 6% posts shall be set plumb.

The chain link fence shall be true to line, taut, tight fit to top of wall 1/2" maximum gap and shall comply with the best practice for fence construction of this type.

Post and rails shall be permanently positioned before fabric is placed.

For post spacing see pertinent structure sheets.

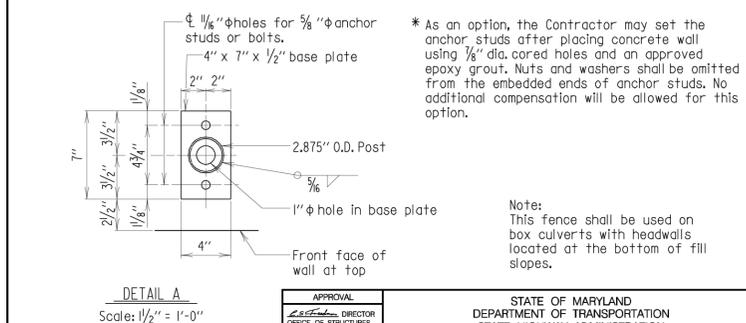
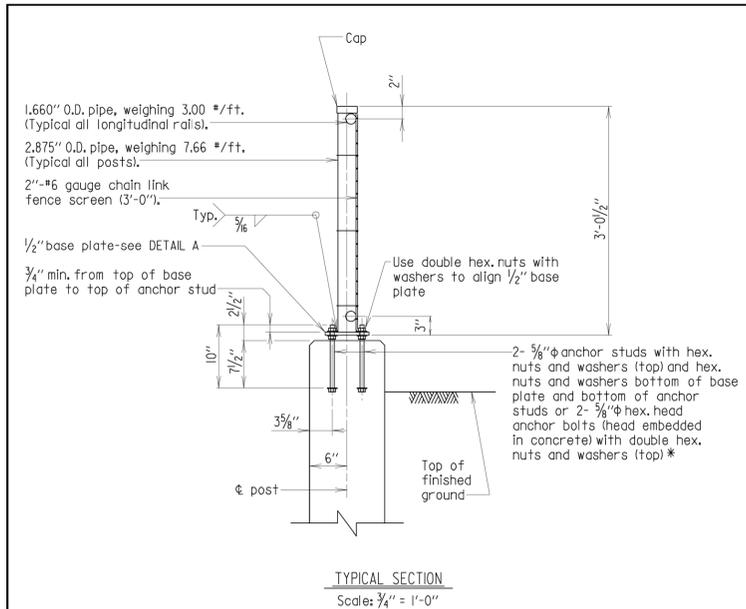
Precoated longitudinal rails, if cut, shall have the cut end coated with PVC touch up material supplied by the manufacturer prior to erection.

If Contractor elects to place anchor studs after placing concrete wall, newly placed rebar shall be located so that coring does not damage same, all holes shall be cored (not drilled) and the diameter of the cored holes for the anchor studs shall be 5/8".

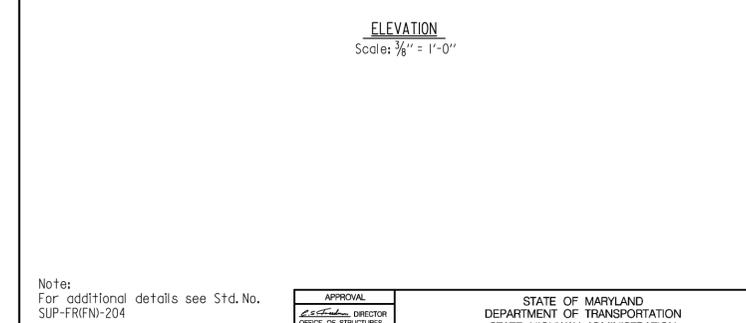
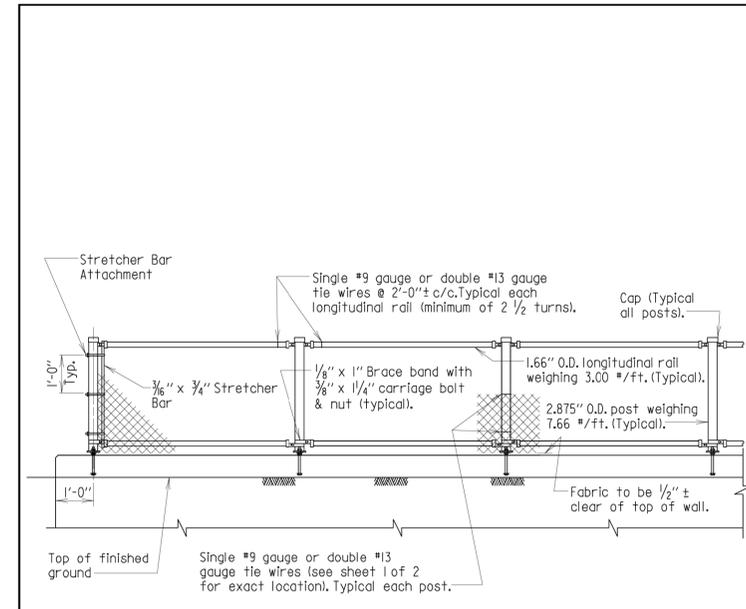
Measurement and Payment: The furnishing, fabricating, erecting, etc., of all new chain link fence on the retaining wall or culvert headwalls and wing walls, complete in place, will not be measured for payment but all costs thereof shall be included in the Contract lump sum prices for the pertinent Retaining Wall or Box Culvert items.

Any defects uncovered by the inspection of welds on base plates and poles shall be repaired or replaced by new members at no additional cost to the Administration.

APPROVAL <i>[Signature]</i> DIRECTOR OFFICE OF STRUCTURES DATE: 07/24/2003	STATE OF MARYLAND DEPARTMENT OF TRANSPORTATION STATE HIGHWAY ADMINISTRATION OFFICE OF STRUCTURES CHAIN LINK SAFETY FENCE RETAINING WALLS AND BOX CULVERTS GENERAL NOTES
VERSION 1.0	DETAIL NO. SUP-FR(FN)-301 SHEET <u>1</u> OF <u>1</u>



APPROVAL <i>[Signature]</i> DIRECTOR OFFICE OF STRUCTURES DATE: 01/14/2004	STATE OF MARYLAND DEPARTMENT OF TRANSPORTATION STATE HIGHWAY ADMINISTRATION OFFICE OF STRUCTURES TYPE III CHAIN LINK SAFETY FENCE RETAINING WALLS AND BOX CULVERTS
VERSION 1.0	DETAIL NO. SUP-FR(FN)-302 SHEET <u>1</u> OF <u>2</u>



APPROVAL <i>[Signature]</i> DIRECTOR OFFICE OF STRUCTURES DATE: 01/14/2004	STATE OF MARYLAND DEPARTMENT OF TRANSPORTATION STATE HIGHWAY ADMINISTRATION OFFICE OF STRUCTURES TYPE III CHAIN LINK SAFETY FENCE RETAINING WALLS AND BOX CULVERTS
VERSION 1.0	DETAIL NO. SUP-FR(FN)-302 SHEET <u>2</u> OF <u>2</u>

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DAVID A. LABELLA MD NO-22185 EXP-12/06/2026



DATUM: NAD 83/91 HORIZONTAL NAVD 88 VERTICAL			
NO.	REVISION	DATE	BY

MONTGOMERY COUNTY
DEPARTMENT OF TRANSPORTATION
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GAITHERSBURG, MD 20878

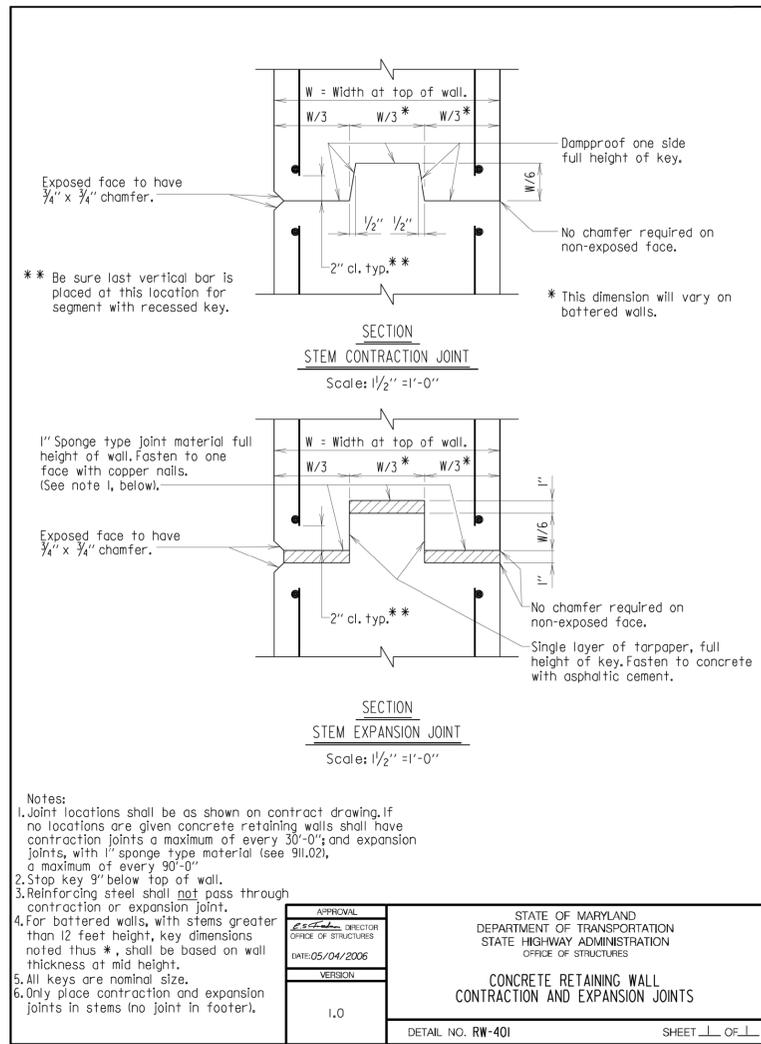
RECOMMENDED FOR APPROVAL
FOR SIGNATURES SEE TITLE SHEET
Chief, Design Section
Date

APPROVED
FOR SIGNATURES SEE TITLE SHEET
Chief, Division of Engineering Services
Date

Designed by : P.F.E. Drawn by : P.F.E. Checked by : M.E.D.

PLAN SHEET RW1-7
FENCE DETAILS
STRUCTURE NO. 150497R02
**MD 355 - CLARKSBURG
SHARED USE PATH**

Project No. : C.I.P. PR. # 501744 SHEET 94 of 97



APPROVAL
DATE: 05/04/2006
VERSION: 1.0

STATE OF MARYLAND
DEPARTMENT OF TRANSPORTATION
STATE HIGHWAY ADMINISTRATION
OFFICE OF STRUCTURES

CONCRETE RETAINING WALL
CONTRACTION AND EXPANSION JOINTS

DETAIL NO. RW-401 SHEET 1 OF 1

LOCATION CATEGORY A									
BAR SIZE	CENTER TO CENTER SPACING								
	3"	4"	5"	≥ 6"					
#4	2'-5"	3'-1"	2'-5"	2'-10"	2'-5"	2'-10"	2'-5"	2'-10"	2'-10"
#5	3'-1"	4'-0"	3'-0"	3'-10"	3'-0"	3'-7"	3'-0"	3'-7"	3'-7"
#6	4'-5"	5'-9"	3'-7"	4'-8"	3'-7"	4'-8"	3'-7"	4'-8"	4'-8"
#7	6'-0"	7'-10"	4'-6"	5'-11"	4'-2"	5'-5"	4'-2"	5'-5"	5'-5"
#8	7'-10"	10'-3"	5'-11"	7'-8"	4'-9"	6'-2"	4'-9"	6'-2"	6'-2"
#9	10'-0"	13'-0"	7'-6"	9'-9"	6'-0"	7'-10"	5'-10"	7'-8"	7'-8"
#10	-	-	9'-6"	12'-5"	7'-7"	9'-11"	7'-2"	9'-5"	9'-5"
#11	-	-	11'-8"	15'-3"	9'-4"	12'-3"	8'-8"	11'-4"	11'-4"

Location Category A - Bars in horizontal layers in top of pour with 12" or more of concrete below them such as in: footings, pier caps, etc.

LOCATION CATEGORY B									
BAR SIZE	CENTER TO CENTER SPACING								
	3"	4"	5"	≥ 6"					
#4	1'-10"	2'-9"	1'-10"	2'-2"	1'-10"	2'-2"	1'-10"	2'-2"	2'-2"
#5	2'-5"	3'-7"	2'-4"	3'-5"	2'-4"	2'-9"	2'-4"	2'-9"	2'-9"
#6	3'-5"	5'-1"	2'-9"	4'-1"	2'-9"	4'-1"	2'-9"	4'-1"	4'-1"
#7	4'-8"	6'-11"	3'-6"	5'-3"	3'-2"	4'-9"	3'-2"	4'-9"	4'-9"
#8	6'-1"	9'-1"	4'-7"	6'-10"	3'-8"	5'-5"	3'-8"	5'-5"	5'-5"
#9	7'-8"	11'-6"	5'-9"	8'-8"	4'-8"	6'-11"	4'-6"	6'-9"	6'-9"
#10	-	-	7'-4"	10'-11"	5'-10"	8'-9"	5'-7"	8'-4"	8'-4"
#11	-	-	9'-0"	13'-6"	7'-2"	10'-9"	6'-8"	10'-0"	10'-0"

Location Category B - All bars not in Location Category A.

□ = Non-epoxy coated ■ = Epoxy coated

- Note:
- When bar lap is not specified on the Plans, the above dimensions shall be used.
 - These bar laps do not apply when bar is in lightweight concrete. Greater lengths are required for this material.
 - These bar laps only apply where the General Notes indicate Reinforcing Steel Design, $f_y = 60$ ksi, and Concrete Design, $f'_c = 3000$ psi.
 - These bar laps assume cover of 2". Greater lap lengths will be required for cover less than 2".
 - These bar laps are Class B splices based on the development lengths in Det. No. REBAR-DL-101. Class B splices are 1.3 times the development length.
 - Class A splices may be used when (a) the area of reinforcement provided is at least twice that required by analysis over the entire length of the lap splice and (b) one-half or less of the total reinforcement is spliced within the required lap splice length. Class A splices are 1.0 times the development length.

APPROVAL
DATE: 03/21/2017
VERSION: 1.0

STATE OF MARYLAND
DEPARTMENT OF TRANSPORTATION
STATE HIGHWAY ADMINISTRATION
OFFICE OF STRUCTURES

BAR LAP DIMENSIONS FOR
GRADE 60 REINFORCING STEEL
IN MIX NO. 3 (3500 P.S.I.) CONCRETE

DETAIL NO. REBAR-BL-101 SHEET 1 OF 1

LOCATION CATEGORY A									
BAR SIZE	CENTER TO CENTER SPACING								
	3"	4"	5"	≥ 6"					
#4	1'-10"	2'-5"	1'-10"	2'-2"	1'-10"	2'-2"	1'-10"	2'-2"	2'-2"
#5	2'-5"	3'-1"	2'-4"	3'-0"	2'-4"	2'-9"	2'-4"	2'-9"	2'-9"
#6	3'-5"	4'-5"	2'-9"	3'-7"	2'-9"	3'-7"	2'-9"	3'-7"	3'-7"
#7	4'-8"	6'-1"	3'-6"	4'-7"	3'-2"	4'-2"	3'-2"	4'-2"	4'-2"
#8	6'-1"	7'-11"	4'-7"	5'-11"	3'-8"	4'-9"	3'-8"	4'-9"	4'-9"
#9	7'-8"	10'-0"	5'-9"	7'-6"	4'-8"	6'-0"	4'-6"	5'-11"	5'-11"
#10	-	-	7'-4"	9'-6"	5'-10"	7'-8"	5'-7"	7'-3"	7'-3"
#11	-	-	9'-0"	11'-9"	7'-2"	9'-5"	6'-8"	8'-8"	8'-8"

Location Category A - Bars in horizontal layers in top of pour with 12" or more of concrete below them such as in: footings, pier caps, etc.

LOCATION CATEGORY B									
BAR SIZE	CENTER TO CENTER SPACING								
	3"	4"	5"	≥ 6"					
#4	1'-5"	2'-1"	1'-5"	1'-8"	1'-5"	1'-8"	1'-5"	1'-8"	1'-8"
#5	1'-10"	2'-9"	1'-9"	2'-8"	1'-9"	2'-11"	1'-9"	2'-11"	2'-11"
#6	2'-8"	3'-11"	2'-1"	3'-2"	2'-1"	3'-2"	2'-1"	3'-2"	3'-2"
#7	3'-7"	5'-4"	2'-8"	4'-0"	2'-6"	3'-8"	2'-6"	3'-8"	3'-8"
#8	4'-8"	7'-0"	3'-6"	5'-3"	2'-10"	4'-2"	2'-10"	4'-2"	4'-2"
#9	5'-11"	8'-10"	4'-5"	6'-8"	3'-7"	5'-4"	3'-6"	5'-2"	5'-2"
#10	-	-	5'-8"	8'-5"	4'-6"	6'-9"	4'-3"	6'-5"	6'-5"
#11	-	-	6'-11"	10'-4"	5'-7"	8'-4"	5'-2"	7'-8"	7'-8"

Location Category B - All bars not in Location Category A.

□ = Non-epoxy coated ■ = Epoxy coated

- Note:
- When development length is not specified on the Plans, the above dimensions shall be used.
 - These development lengths do not apply when bar is in lightweight concrete. Greater lengths are required for this material.
 - These development lengths only apply where the General Notes indicate Reinforcing Steel Design, $f_y = 60$ ksi, and Concrete Design, $f'_c = 3000$ psi.
 - These development lengths assume cover of 2". Greater development lengths will be required for cover less than 2".
 - The Excess Reinforcement Factor was assumed to be 1.0 when calculating these dimensions.
 - A_{tr} was assumed to be 0 when calculating the Reinforcement Confinement Factor.
 - If depth of member does not allow bar development length indicated in Location Categories A and B; then hooks shall be added to all bars not conforming, as per D, E, and F per Det. No. REBAR-DL-201.

APPROVAL
DATE: 03/21/2017
VERSION: 1.0

STATE OF MARYLAND
DEPARTMENT OF TRANSPORTATION
STATE HIGHWAY ADMINISTRATION
OFFICE OF STRUCTURES

DEVELOPMENT LENGTH DIMENSIONS FOR
GRADE 60 REINFORCING STEEL
IN MIX NO. 3 (3500 P.S.I.) CONCRETE

DETAIL NO. REBAR-DL-101 SHEET 1 OF 1

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SEAL
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No. 22185
DATE: 02/21/2025

NO.	REVISION	DATE	BY

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

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Chief, Design Section
Date

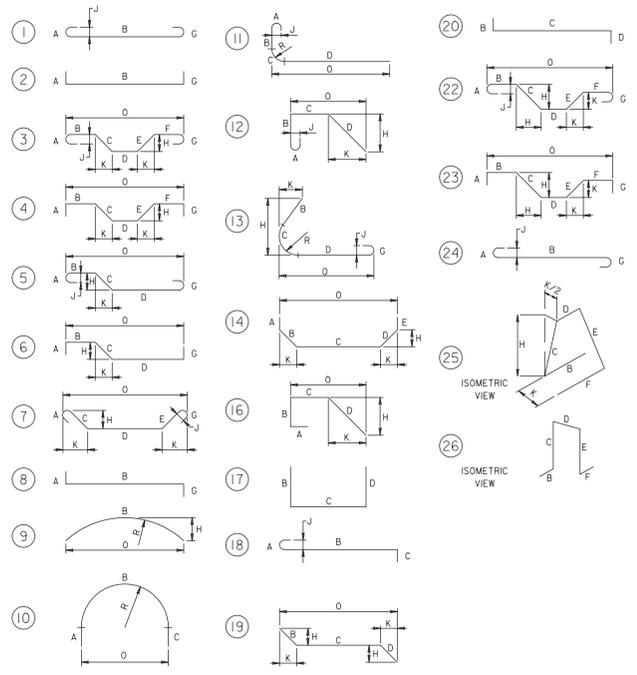
APPROVED
FOR SIGNATURES SEE TITLE SHEET
Chief, Division of Engineering Services
Date

Designed by : P.F.E. Drawn by : P.F.E. Checked by : M.E.D.

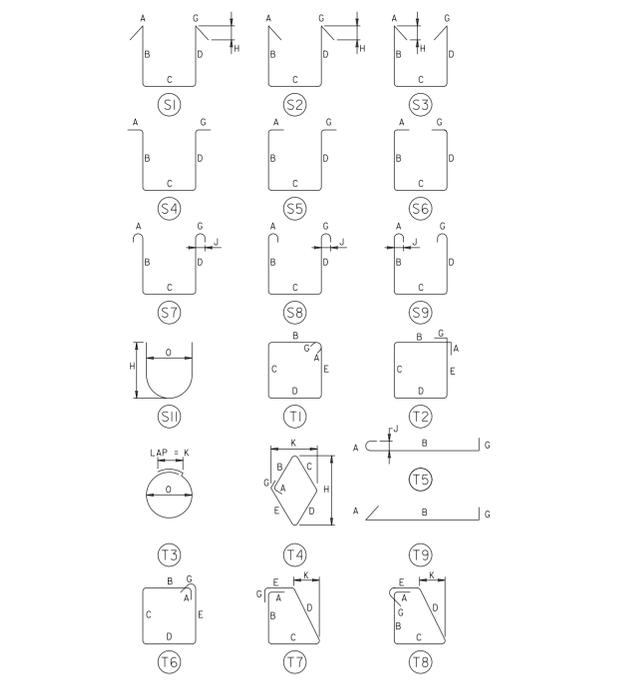
PLAN SHEET RW1-8
DETAILS
STRUCTURE NO. 150497R02
MD 355 - CLARKSBURG
SHARED USE PATH

Project No. : C.I.P. PR. # 501744 SHEET 95 of 97

ACI TYPICAL BAR BENDS



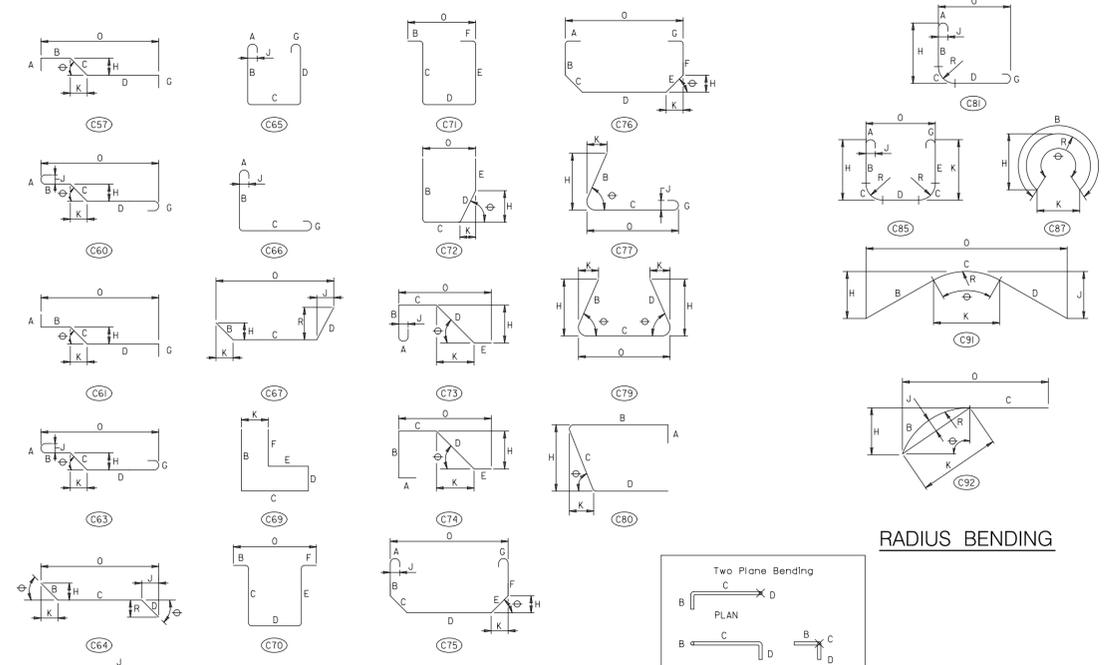
STANDARD PIN BENDING



NOTE TO FABRICATOR
 BENDING TOLERANCE NOTE
 TIES AND STIRRUPS SHALL BE BENT WITH A PLUS ZERO INCH (+0) MINUS (-) NORMAL ACI BENDING TOLERANCES

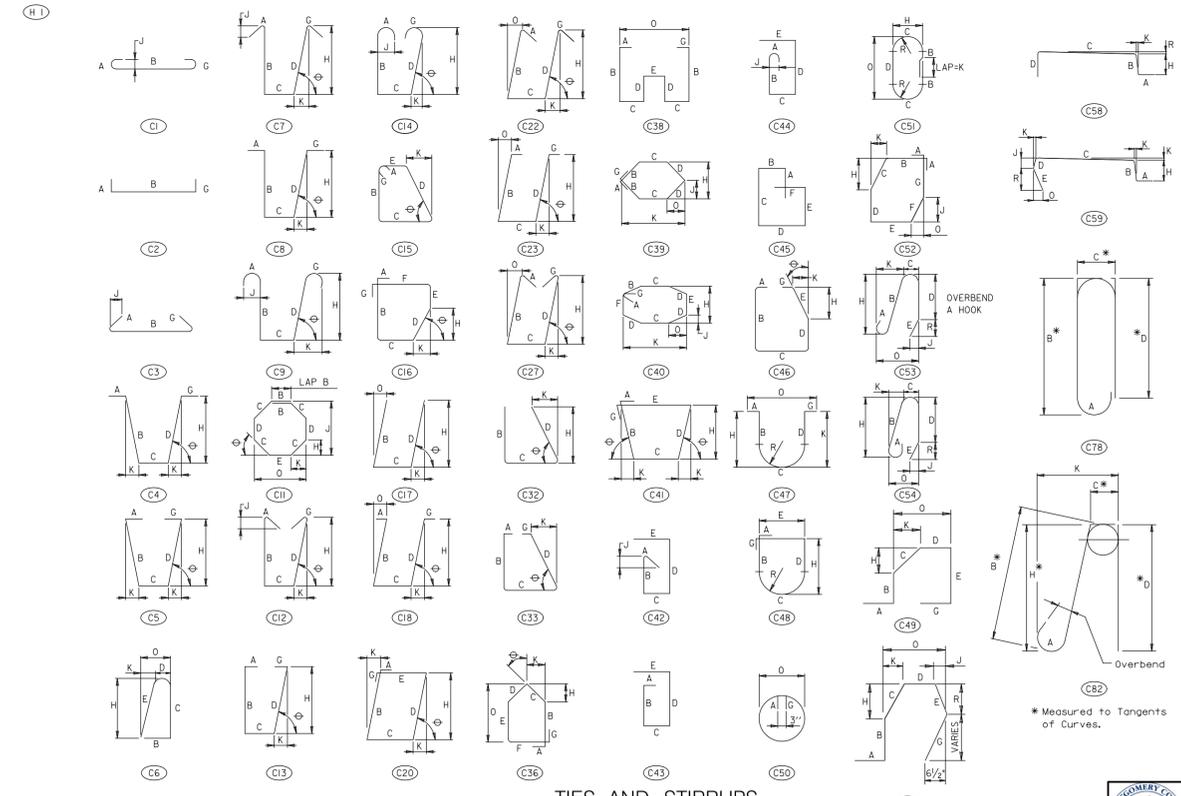
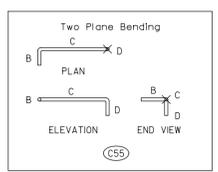
TIES AND STIRRUPS

SHA TYPICAL BAR BENDS



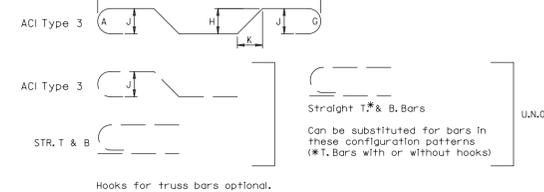
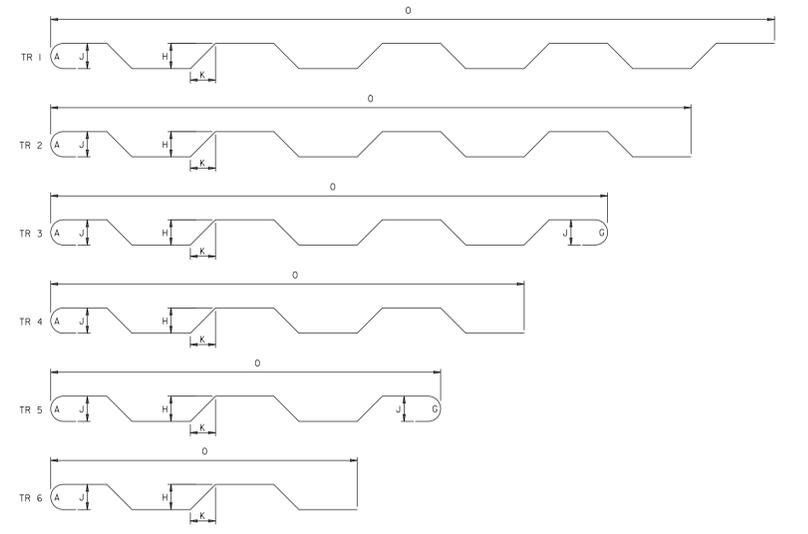
STANDARD PIN BENDING

RADIUS BENDING



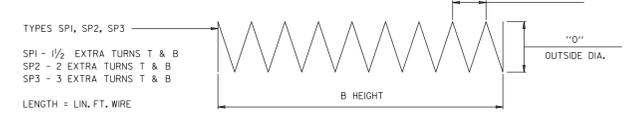
NOTE TO FABRICATOR
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TIES AND STIRRUPS

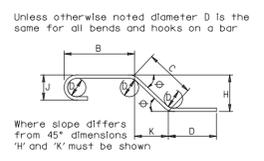


Hooks for truss bars optional.

TRUSS BAR CONFIGURATION



SPIRAL



Notes:
 1. All dimensions are out to out of bar or to tangent points for 135° and 180° hooks.
 2. 'J' dimensions on 180° hooks to be shown only where necessary to restrict hook size. Otherwise standard hooks are to be used.
 3. Where 'J' is not shown, 'J' will be kept equal to or less than 'H' on truss bars. Where 'J' can exceed 'H' it should be shown.
 4. 'H' dimension on stirrups to be shown where necessary to fit within concrete.
 5. Where bars are to be bent more accurately than standard bending tolerances, bending dimensions which require closer fabrication should have limits indicated.

GENERAL NOTES

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 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.
 DAVID A. LABELLA MD NO-22185 EXP-12/06/2026

SEAL
 STATE OF MARYLAND
 DAVID A. LABELLA
 REGISTERED PROFESSIONAL ENGINEER
 No. 22185
 DATE: 02/21/2025

DATUM: NAD 83/91 HORIZONTAL NAVD 88 VERTICAL	REVISION	DATE	BY

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

RECOMMENDED FOR APPROVAL
 FOR SIGNATURES SEE TITLE SHEET
 Chief, Design Section
 Date

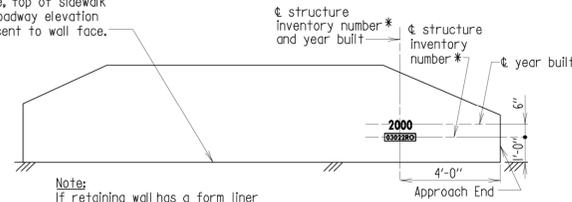
APPROVED
 FOR SIGNATURES SEE TITLE SHEET
 Chief, Division of Engineering Services
 Date

Designed by: **R.E.P.** Drawn by: **E.R.W.** Checked by: **D.E.D.**

PLAN SHEET RW1-9
REINFORCING DETAILS
STRUCTURE NO. 150497R02
MD 355 - CLARKSBURG
SHARED USE PATH

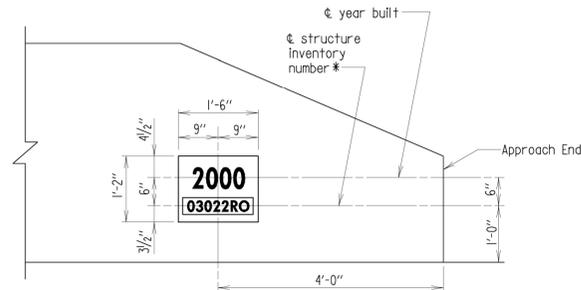
Project No.: C.I.P. PR. # 501744 SHEET 96 of 97

Finished groundline, top of sidewalk and/or finished roadway elevation whichever is adjacent to wall face.



Note:
If retaining wall has a form liner finish, a 14" x 18" smooth block shall be formed for placement of the numbers. See Detail A below for dimensions. See Plans for location of block.

RETAINING WALLS



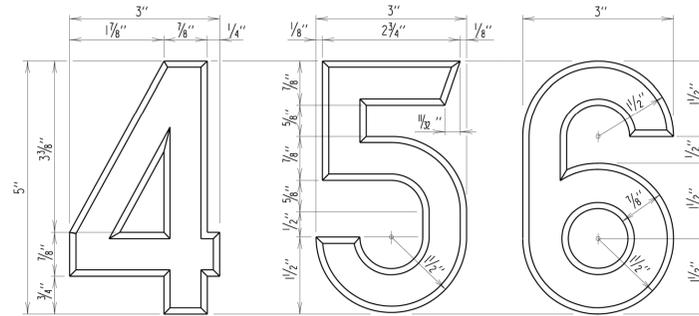
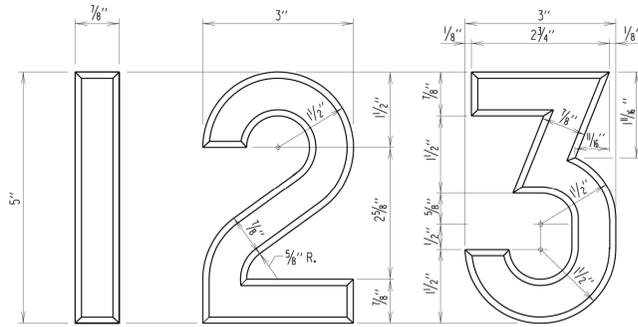
DETAIL A

- Notes:**
- For existing structures, where a year built is shown on the structure and structure is to be rehabilitated, the marking should read 1942-2000 (old year first - new year).
 - For existing structures with no year built contact the Office of Structures for old year.
 - For Year Built Numerals refer to Standard No. SI-201.
 - For retaining walls that are not visible from the approach roadway, refer to Standard No. SI-102.

*Block numbers 3" high on a painted white background, (5" x 17").

APPROVAL DIRECTOR OFFICE OF STRUCTURES DATE: 10/17/2013	STATE OF MARYLAND DEPARTMENT OF TRANSPORTATION STATE HIGHWAY ADMINISTRATION OFFICE OF STRUCTURES
VERSION 1.0	LOCATION OF YEAR BUILT MARKING AND STRUCTURE INVENTORY NUMBER ON RETAINING WALLS
	DETAIL NO. SI-104 SHEET <u>1</u> OF <u>1</u>

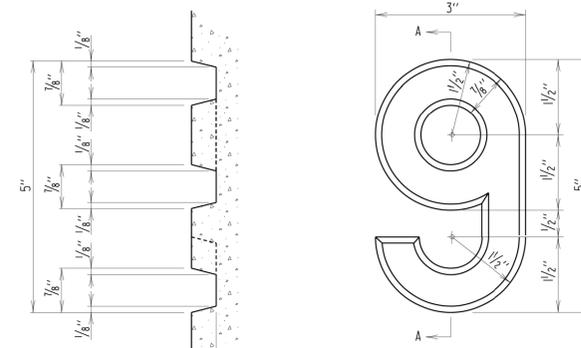
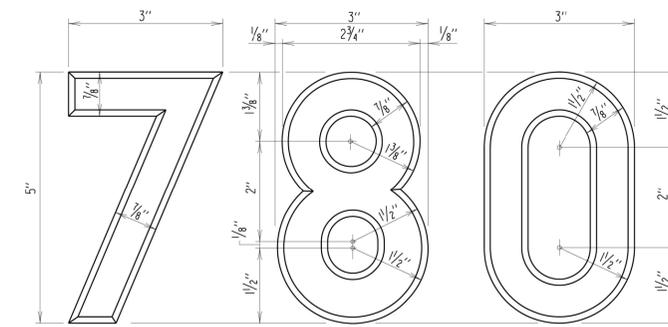
STRUCTURE INVENTORY



- Notes:**
- Year built numerals to be indented into concrete (unpainted) - as indicated on Detail Nos. SI-101, SI-103 and SI-104.

APPROVAL DIRECTOR OFFICE OF STRUCTURES DATE: 11/15/2019	STATE OF MARYLAND DEPARTMENT OF TRANSPORTATION STATE HIGHWAY ADMINISTRATION OFFICE OF STRUCTURES
VERSION 1.01	NUMERALS FOR YEAR BUILT MARKING ON STRUCTURES
	DETAIL NO. SI-201 SHEET <u>1</u> OF <u>2</u>

STRUCTURE INVENTORY



SECTION A-A

APPROVAL DIRECTOR OFFICE OF STRUCTURES DATE: 11/15/2019	STATE OF MARYLAND DEPARTMENT OF TRANSPORTATION STATE HIGHWAY ADMINISTRATION OFFICE OF STRUCTURES
VERSION 1.01	NUMERALS FOR YEAR BUILT MARKING ON STRUCTURES
	DETAIL NO. SI-201 SHEET <u>2</u> OF <u>2</u>

STRUCTURE INVENTORY

WALLACE MONTGOMERY
ENGINEERS-PLANNERS-SURVEYORS-CONSTRUCTION MANAGERS
10150 York Road, Suite 200
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Chief, Division of Engineering Services
Date

Designed by : P.F.E. Drawn by : P.F.E. Checked by : M.E.D.

**PLAN SHEET RW1-10
INVENTORY DETAILS
STRUCTURE NO. 150497R02
MD 355 - CLARKSBURG
SHARED USE PATH**

Project No. : C.I.P. PR. # 501744 SHEET 97 of 97

STRUCTURE INVENTORY NO. 150497R02

SURVEY BOOK NO.

PLOTTED: 6/12/2025
FILE: M:\PROJ\214013.0010\Structures\Cadd\pBR-SD04_M355.dgn