

HISTORIC PRESERVATION COMMISSION

Marc Elrich
County Executive

Sandra I. Heiler Chairman

Date: January 15, 2021

MEMORANDUM

TO: Mitra Pedoeem

Department of Permitting Services

FROM: Michael Kyne

Historic Preservation Section

Maryland-National Capital Park & Planning Commission

SUBJECT: Historic Area Work Permit: Construction of shared-use path with associated hardscape,

lighting, grading, tree removals

The Montgomery County Historic Preservation Commission (HPC) has reviewed the attached application for a Historic Area Work Permit (HAWP). This application was **Approved** at the November 18, 2020 HPC meeting.

The HPC staff has reviewed and stamped the attached construction drawings.

THE BUILDING PERMIT FOR THIS PROJECT SHALL BE ISSUED CONDITIONAL UPON ADHERENCE TO THE ABOVE APPROVED HAWP CONDITIONS AND MAY REQUIRE APPROVAL BY DPS OR ANOTHER LOCAL OFFICE BEFORE WORK CAN BEGIN.

Applicant: MCDOT (Yasamin Esmaili, Agent)

Address: 23515 Frederick Road to 23200 Stringtown Road, Clarksburg

This HAWP approval is subject to the general condition that the applicant will obtain all other applicable Montgomery County or local government agency permits. After the issuance of these permits, the applicant must contact this Historic Preservation Office if any changes to the approved plan are made. Once work is complete the applicant will contact Michael Kyne at 301.563.3403 or michael.kyne@montgomeryplanning.org to schedule a follow-up site visit.





146,909

146,909

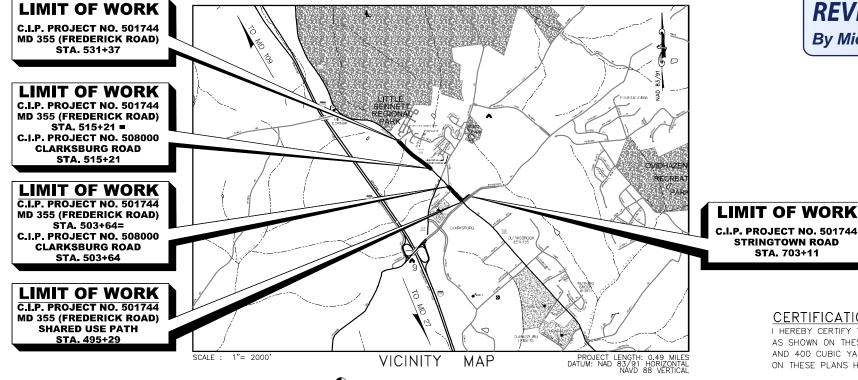
110

MONTGOMERY COUNTY TRANSPORTATION DIVISION OF TRANSPORTATION ENGINEERING CLARKSBURG SHARED

STA. 495+29 TO STA. 531+37

C. I. P. PROJECT NO. 501744

UPDATED 90% SUBMITTAL



PLAN LOCATION OF SOIL BORING

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.

DATE

TIMOTHY H. CUPPLES, P.E.
CHIEF, DIVISION OF TRANSPORTATION ENGINEERING

DESIGN CERTIFICATION

HEREBY CERTIFY THAT THIS PLAN HAS BEEN PREPARED IN ACCORDANCE WITH THE "2011 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL", MONTGOMERY COUNTY DEPARTMENT OF PERMITTING SERVICES EXECUTIVE OF AND TRANSPORTATION "DRAINAGE DESIGN" DATED NOVEMBER, 2013 (REV. JUNE 10,2014) REGULATIONS 5-90., 7-02AM AND 36-90, AND MONTGOMERY COUNTY DEPARTMENT

GLENN MARSCHKE, P.E. SENIOR ASSOCIATE, WALLACE MONTGOMERY

DHELF PROTECT THE BELICAUS AGE AND HABITAT PROM THE DIPACTS OF LAND DEVELOPMENT DILSE PLANS MUST BE STRUCTLY ADDITION TO OF THERE IS A PROBLEM, CALL LEO GALANKO AT 240-777-8242 AND THE MODES STAFF MEMBER WILL ASSIST YOU IN DEVELOPING A SOLUTION INDIONE STREAM IMPACTS OCCUR. RESOLUTION AREA THE RECEIVED A SPECIAL PROFESSION AREA WHEN YOU CALL "LET'S HORE TOGETHER TO KEEP IT CLEAN" ACKNOWLEDGED TIMOTHY H CUPPLES, P.E. OWNER-DEVELOPER

ATTENTION

THIS SUS-IS WITHIN THE ENVIRONMENTALLY BEASURED

CLARKSHURG SPECIAL PROTECTION AREA

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

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. 31487, EXPIRATION DATE: 03/18/2021

MARK J. BODMANN, P.E. DATE

REVIEWED

a. Corps of Engineers

MDE Dam Safety Protection Plan

NOTICE OF INTENT Post Construction)

MSHA ACCESS PERMIT

By Michael Kyne at 3:28 pm, Jan 15, 2021

APPROVED

RELATED REQUIRED PERMITS

IT IS THE RESPONSIBILITY OF PERMITTEE/OWNER OF THIS SITE TO OBTAIN ALL

REQUIRED PERMITS PRIOR TO ISSUANCE OF THE APPROVED SEDIMENT CONTROL PERMIT

WORK RESTRICTION

DATES

Montgomery County

Historic Preservation Commission

Sandral Keiler LIMIT OF WORK

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 7305 CUBIC YARDS OF EXCAVATION AND 400 CUBIC YARDS OF FILL AND THAT THE TOTAL AREA TO BE DISTURBED AS SHOWN ON THESE PLANS HAS BEEN DETERMINED TO BE XXXX SQUARE FEET.

DATE

STRINGTOWN ROAD

STA. 703+11

GLENN MARSCHKE, P.E. SENIOR ASSOCIATE, 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 WITHTHE 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

DATE

Designed by : J.D.W.

TIMOTHY H. CUPPLES, P.E. CHIEF, DIVISION OF TRANSPORTATION ENGINEERING

MD 355	APPROVAL	APPROVAL
T	DEPARTMENT OF TRANSPORTATION 100 EDISON PARK DRIVE, 4TH FLOOR GAITHERSBURG, MD 20878	
	MONTGOMERY COUNTY	

TITLE SHEET

355 - CLARKSBURG SHARED USE PATH

SCALE : NO SCALE

MONTGOMERY Engineers · Planners · Surveyors · Construction Managers

0150 York Road, Suite 200 Hunt Valley, Maryland 21030 410.494.9093 Tel / 410.667.0925 Fax www.WallaceMontgomery.com

100 EDISON PARK DR., 4TH FLOOR GAITHERSBURG, MD 20878

Drawn by : J.D.W. Checked by : S.R.R. Project No. : C.I.P. PR. # 501744 SHEET 01 of 88

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			THE
			CTD

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/BIZSTDSPECS/DESMANUALSTDPUB/PUBLICATIONSONLINE/OHD/BOOKSTD/INDEX/ASP.

THE FOLLOWING LIST OF STANDARDS SHALL BE USED WITHIN THIS PROJECT:

STD. NO.	
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 374.55	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 374.68	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 578.01	REPAIRING PAVEMENT OPENINGS FOR UTILITY TRENCHES
MD 580.03	NEW COMBINATION CURB AND GUTTER PLACEMENT ALONG EXISTING PAVEMENT
MD 580.08	DRIVEWAYS AND BIKE PATHS PAVEMENT SECTIONS
MD 620.02	STANDARD TYPES A & B CONCRETE CURB AND COMBINATION CONCRETE CURB & GUTTER
MD 620.03	DEPRESSED CURB FOR COMBINATION CURB AND GUTTER AND DEPRESSED CURB FOR SIDEWALK RAMPS
MD 630.02	STANDARD ENTRANCE CONSTRUCTION RESIDENTIAL & COMMERCIAL METHOD NO. 2
MD 635.01	MAILBOX PLACEMENT DETAILS
MD 655.11	SIDEWALK RAMPS PERPENDICULAR
MD 655.40	DETECTABLE WARNING SURFACES
MD 657.00	STANDARD STAIRWAYS
MC 811.01	METHODS OF GRADING SIDE SLOPES
SUP-FR(FN)-301	CHAIN LINK SAFETY FENCE-RETAINING WALLS AND BOX CULVERTS 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

UPDATED 90% SUBMITTAL

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

Drawn by : J.D.W. Checked by : S.R.R.

NOTE: ALL ITEMS ARE TO BE CONSTRUCTED IN ACCORDANCE WITH THE CURRENT VERSION

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

SCALE : NO SCALE

Project No.: C.I.P. PR, # 501744 SHEET 02 of 88

PLOTTED: 9/24/2020 FILE: M:\PRO\\214013.0010\Highways_Cadd_\pGN-I001_MD355.dgn

Designed by : J.D.W.

OF THE REFERENCED STANDARD AT THE TIME OF CONSTRUCTION.

GENERAL NOTES

- THE SPECIFICATIONS FOR THIS CONTRACT WILL BE THOSE OF THE MARYLAND STATE HIGHWAY ADMINISTRATION DATED JULY 2019, ALL ERRATA AND ADDENDA THERETO. THE MARYLAND STATE HIGHWAY ADMINISTRATION BOOK OF STANDARDS FOR HIGHWAY AND INCIDENTAL STRUCTURES, 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 REFORE PROCESSING WITH CONSTRUCTION. BEFORE PROCEEDING WITH CONSTRUCTION.
- CALL "MISS UTILITY" AT I-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 OF PROPERTY DAMAGED AS A RESULT OF THE CONTRACTOR'S NEGLIGENCE OR METHOD OF OPERATION, MUST BE MADE AT THE CONTRACTOR" EXPENSE WITHOUT ADDITIONAL COST TO MONTGOMERY COUNTY BEFORE PROCEEDING WITH CONSTRUCTION.
- 5. GRADING SHALL BE DONE IN SUCH A MANNER AS TO PROVIDE POSITIVE DRAINAGE IN BOTH TEMPORARY AND PERMANENT CONDITIONS.
- 6. DISTURBED AREAS ADJACENT TO ESTABLISHED LAWNS SHALL BE SODDED. OTHER DISTURBED AREAS SHALL BE SEEDED AND MULCHED.
- 7. CLEARING TO BE LIMITED TO THE "LIMIT OF DISTURBANCE" AS SHOWN ON THE PLANS.
- 8. 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 (30) 699-4420
- 9. ALL STORM DRAINS SHALL BE INSTALLED WITH CLASS "C" BEDDING UNLESS OTHERWISE NOTED.
- IO. ALL UTILITY POLES NOTED FOR RELOCATION SHALL BE PERFORMED BY OTHERS.
- CONSIDERATION BEFORE STARTING A JOB.
- 12. THE LOCATION OF RIGHT-OF-WAY AND EASEMENT LINES SHOWN ON THE PLANS ARE FOR INFORMATION AND GUIDANCE ONLY. NO CUARANTEE IS MADE AS TO THE ACCURACY OF SAID LOCATIONS, PLEASE REFER TO THE APPROPRIATE RIGHT-OF-WAY PLAT FILES NO. 776 TO 781.
- 13. CONCRETE DESIGN: SERVICE LOAD DESIGN METHOD.
- 14. REINFORCING STEEL DESIGN: (fs=24,000 PSI)
- IS. 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.
- 16. 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.
- 17. WHEN THE DROP OF THE MAIN LINE THROUGH A STRUCTURE IS GREATER THAN THAT WHICH CAN BE WHEN THE DROP OF THE MAIN LINE THROUGH A STRUCTURE IS GREATER THAN THAT WHICH CAN BE ACCOMMODATED BY A SHAPED CHANNEL WITH THE INVERT ON A 1.5 FOOT HORIZONTAL TO IFOOT VERTICAL SLOPE, THE BOTTOM OF THE STRUCTURE SHALL BE LINED WITH GRANITE BLOCKS AT LEAST 4 INCHES THICK. NO SHAPED CHANNEL WILL BE REQUIRED FOR THIS TYPE OF CONSTRUCTION, BUT THE BOTTOM OF THE STRUCTURE SHALL SLOPE AT LEAST \(\frac{1}{2} \) INCH PER FOOT TOWARD THE INVERT OF THE OUTLET PIPE.
- 18. FOR ADDITIONAL NOTES ON DRAINAGE STRUCTURES AND RETAINING WALLS SEE NOTES ELSEWHERE IN
- 19. WHERE CURB AND GUTTER ENDS ARE EXPOSED, PROVIDE A NOSE DOWN SECTION AT 3:I SLOPE,
- 20. DISTURBED AREAS TO BE PERMANENTLY GRASS SHALL RECEIVE 2" OF TOPSOIL.
- 21. 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 STORN DRAIN ITEMS.
- 22. SUBSURFACE INVESTIGATION RESULTS (TEST HOLES, SOIL BORINGS, ETC.) WILL BE MADE AVAILABLE TO THE CONTRACTOR.
- 23. 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 THEMS.
- 24. NOTIFY MR. TONY GOODMAN (703) 750-4708 OF WASHNGTON GAS, FOR STAND BY, 48 HOURS PRIOR TO ANY EXCAVATION IN THE VICINITY OF NATURAL GAS TRANSMISSION LINES.
- 25. ANY RELOCATION OF EXISTING NATURAL GAS TRANSMISSION LINES MAY ONLY BE ABLE TO BE PERFORMED DURING THE NON-HEATING SEASON, MAY THROUGH SEPTEMBER.

EXPLANATORY NOTES AND REFERENCES

 ${\underline{\tt SIGHT\ DISTANCES}}\colon$ 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.

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

WALLACE MONTGOMERY 10150 York Road, Suite 200 Hunt Valley, Maryland 21030 410.494.9093 Tel / 410.667.0925 Fax

CONVENTIONAL SIGNS



FIELD SURVEY NOTES

ABBREVIATIONS

ABUT	-	ABUTMENT	P/C	-	POINT OF CROWN
ACCT. NO.	-	ACCOUNT NUMBER	P.C.	-	POINT OF CURVATURE
APPROX.	-	APPROXIMATE	P.C.C.	-	POINT OF COMPOUND CURVATURE
ASPH	-	ASPHALT SURFACE	P/GE	-	PROFILE GRADE ELEVATION
BK.	-	BACK	P.G.L.	_	PROFILE GRADE LINE
₽.	-	BASELINE	P/GL	_	PROFILE GROUND LINE
BLVD	-	BOULEVARD	PIE	_	PUBLIC IMPROVEMENT EASEMENT
BRG.	-	BEARING, BORING	P.I.	_	POINT OF INTERSECTION
B.R.L.	-	BUILDING RESTRICTION LINE	PROP.	_	PROPOSED
CATV	-	CABLE TV	P.S.I.	_	POUNDS PER SQUARE INCH
Q.	-	CENTERLINE	P.S.F.	_	POUNDS PER SQUARE FOOT
CONC.	-	CONCRETE	P.O.B.	_	POINT OF BEGINNING
CMP	-	CORRUGATED METAL PIPE	P.O.E.	_	POINT OF ENDING
CORR.	-	CORRECTION (V.C.)	P/R		POINT OF ENDING
CSW	-	CONCRETE SIDEWALK	P.P.C.C.	-	
CSXT	-	CSX RAILROAD		-	PLAIN PORTLAND CEMENT CONCRETE
C.Y.	-	CUBIC YARDS	P.T.	-	POINT OF TANGENT
Dc	-	DEGREE OF CURVE	PUE	-	PUBLIC UTILITY EASEMENT
DELTA	-	CENTRAL ANGLE (CURVE DATA)	P.V.C.	-	POINT OF VERTICAL CURVE
DEV	-	DEVELOPMENT	P.V.I.	-	POINT OF VERTICAL INTERSECTION
DIA.	-	DIAMETER	P.V.R.C.	-	POINT OF VERTICAL REVERSE CURVE
DI	-	EXISTING DRAIN INLET	PVT.	-	PAVEMENT
E	-	EXTERNAL DISTANCE (CURVE DATA)	P.V.T.	-	POINT OF VERTICAL TANGENCY
EA.	-	EACH	R	-	RADIUS (CURVE DATA)
E.B.R.	-	EAST BOUND ROADWAY	R.C.P.	-	REINFORCED CONCRETE PIPE
ELEV.,EL	-	ELEVATION	RT.	-	RIGHT
EX., EXIST.	-	EXISTING	R/W	-	RIGHT OF WAY
EXP.	-	EXPANSION	S.B.R.	-	SOUTH BOUND ROADWAY
F.S.	-	FAR SIDE	SDWK.	_	SIDEWALK
F/0	-	FIBER OPTIC	SC	_	STORMCEPTOR
F.215	-	FOLIO .	SD	_	STORM DRAIN
HI	-	HIGH POINT	SF	_	SQUARE FEET
INV.	-	INVERT	SHA	_	STATE HIGHWAY ADMINISTRATION
L	-	LENGTH OF CURVE (CURVE DATA)	S.Y.	_	SQUARE YARDS
LBS	-	POUNDS	SPP	_	STRUCTURAL PLATE PIPE
L.F.	-	LINEAR FEET	STA.	_	STATION
L0	-	LOW POINT	STD.	_	STANDARD
LT.	-	LEFT	SSD	_	STOPPING SIGHT DISTANCE
L.5660	-	LIBER	SMH	_	SANITARY MANHOLE
MAX.	-	MAXIMUM	SWM	_	STORM WATER MANAGEMENT
MC	-	MONTGOMERY COUNTY	SW-I	_	STORM WATER MANAGEMENT BORING
MD	-	MARYLAND			
M.H., MH	-	MANHOLE	T	-	TANGENT (CURVE DATA)
MIN.	_	MINIMUM	TBD	-	TO BE DETERMINED
MOD.	-	MODIFIED	TC	-	TOP OF CURB
MSE	-	MECHANICAL STABILIZED EARTH	TRANS	-	TRANSFORMER
N.B.R.	-	NORTH BOUND ROADWAY	TRAV	-	TRAVERSE POINT
N.D.C.	-	NOSE DOWN CURB	TYP.	-	TYPICAL
NO.	-	NUMBER	ШG	-	UNDERGROUND
NORM.	-	NORMAL	UTIL.	-	UTILITY STRUCTURE
NRI	-	NATURAL RESOURCE INVENTORY	VC	-	VERTICAL CURVE
FSD	-	FOREST STAND DELINEATION	W	-	WATER LINE
N.S.	-	NEAR SIDE	W.B.R.	-	WEST BOUND ROADWAY
NTS	-	NOT TO SCALE	WP	_	WORKING POINT

١.	TOPOGRAPHIC R	FIELD SURVEYS	WERE PER	RFORMED E	BY WALLA	CE MONTGOMERY	DECEMBER
	19-21, 2016.	SUPPLEMENTAL	SURVEYS	WERE PER	RFORMED	JANUARY-MARCH	2017.

- GANNETT FLEMING TOPOGRAPHIC FIELD SURVEYS WERE PERFORMED BY MERCADO CONSULTANTS APRIL 2017.
- 3. 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.

IIDD	ATFD	an%	SHE	ΜΙΤΤΔΙ

DATUM: NAD 83/91 HORIZONTAL NAVD 88 VERTICAL Designed by : J.D.W.

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

Checked by : S.R.R.

RECOMMENDED FOR APPROVAL APPROVED

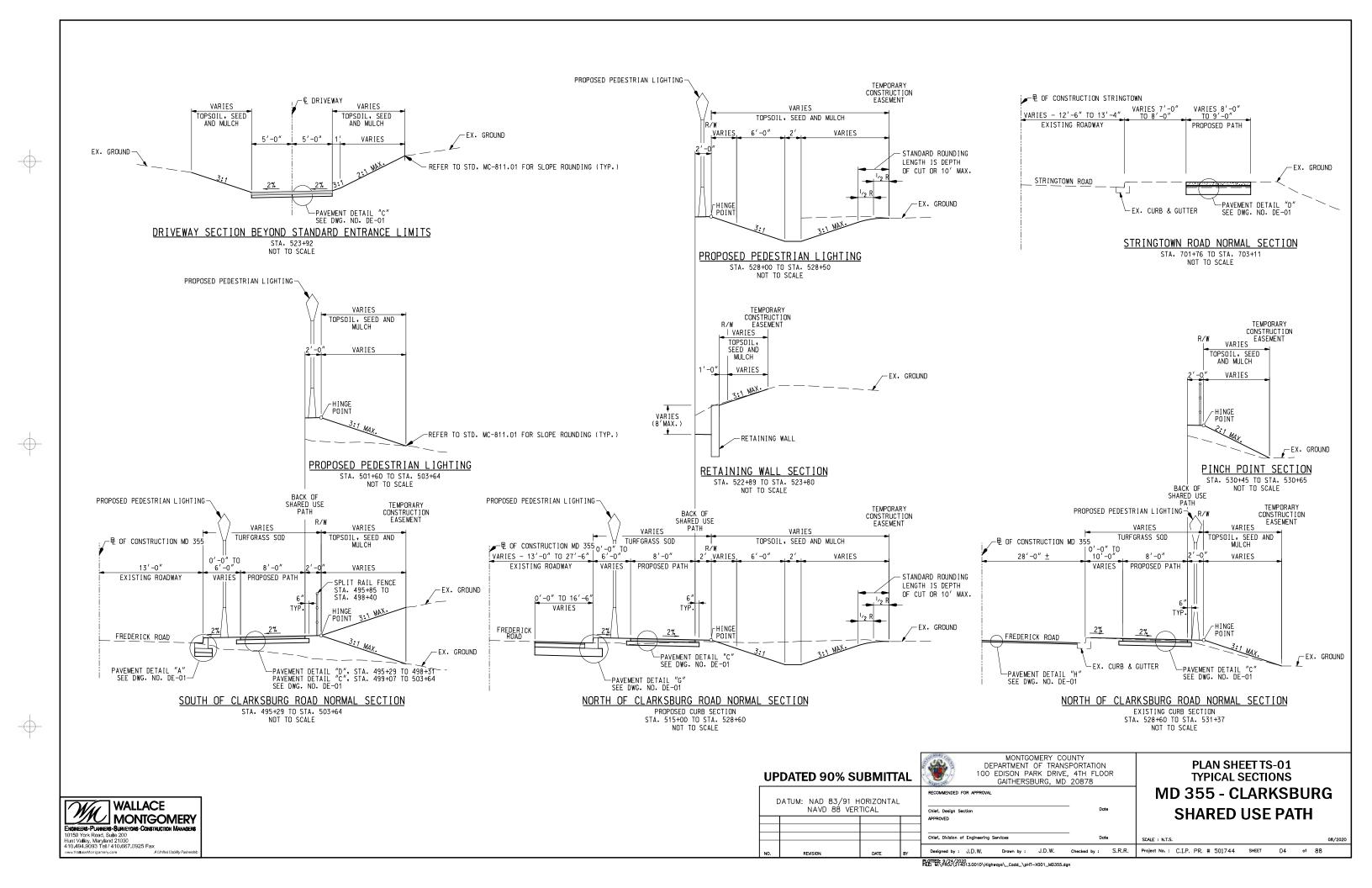
Drawn by: J.D.W.

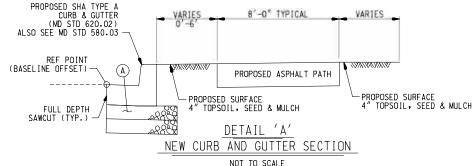
PLAN SHEET GN-01 GENERAL NOTES AND DEFINITIONS MD 355 - CLARKSBURG SHARED USE PATH

SCALE : NO SCALE

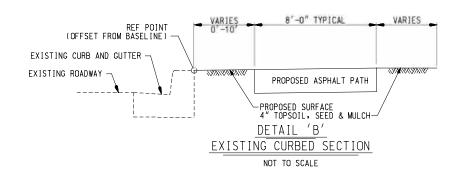
Project No. : C.I.P. PR, # 501744 SHEET 03 of 88

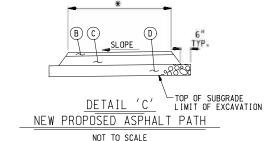
PLOTTED: 9/24/2020 FILE: M:\PROJ\214013.0010\Highways_Cadd_\pGN-N001_MD355.dgn



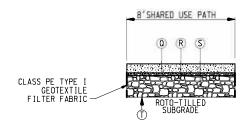


(a) 12" BASE COURSE USING GRADED AGGREGATE (2-6" LIFTS)



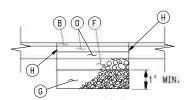


(B) 2.0" SUPERPAVE ASPHALT MIX 9.5mm SURFACE, PG 64S-22, L2 © 3.0" SUPERPAVE ASPHALT MIX 19.0mm BASE, PG 64S-22, L2 © 4.0" GRADED AGGREGATE BASE COURSE * 8'-0" FOR SHARED USE PATH, 10'-0" AND VARIES FOR DRIVEWAYS



DETAIL 'D' PERMEABLE PAVEMENT - SHARED USE PATH NOT TO SCALE

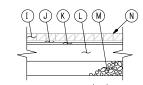
@ 5.0" PERVIOUS CONCRETE SIDEWALK R 1.5" AASHTO NO. 8 CHOKER STONE COURSE (Ŝ) 12.0" WASHED AASHTO NO. 2 AGGREGATE RESERVOIR ROTO-TILL SUBGRADE PRIOR TO INSTALLATION



DETAIL REPAIRING PAVEMENT OPENINGS FOR UTILITY TRENCHES NOT TO SCALE

® 2.0" SUPERPAVE ASPHALT MIX 9.5mm SURFACE, PG 64S-22, L2 ◎ 4.0" SUPERPAVE ASPHALT MIX 19.0mm BASE, PG 64S-22, L2 ⓒ 6.0" GRADED AGGREGATE BASE COURSE

⊕ FULL DEPTH SAWCUT (TYP.)



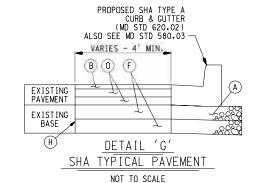
DETAIL BRICK DRIVEWAY FOR ENTRANCE AT STA. 498+69

NOT TO SCALE

⊕ 4"x8"x2"⁄4" MIN. BRICK PAVERS WITH HAND TIGHT JOINTS AND 3:1 SAND CEMENT SWEEP

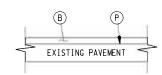
⊕ ADHESIVE COAT - NEOPRENE MODIFIED ASPHALT PRIMECOAT - LOW VISCOSITY LIQUID ASPHALT

⊕ 3.4" BITUMINOUS SETTING BED (ADJUST THICKNESS IF PAVER THICKNESS VARIES) POURED CONCRETE BASE, 3500 PSI, 6"x6"x2.1x2.1 WELDED WIRE CONTINUOUS WITHIN SLAB M 6.0" DENSE GRADED AGGREGATE BASE COURSE N FINISH GRADE OF PAVEMENT



(A) 12" BASE COURSE USING GRADED AGGREGATE (2-6" LIFTS) (INCIDENTAL TO C&G PAYMENT) B 2.0" SUPERPAVE ASPHALT MIX 9.5mm SURFACE, PG 64S-22, L2
4.0" SUPERPAVE ASPHALT MIX 19.0mm BASE, PG 64S-22, L2

F 6.0" GRADED AGGREGATE BASE COURSE H FULL DEPTH SAWCUT (TYP.)

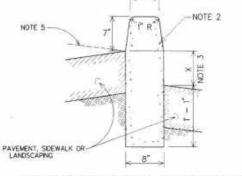


DETAIL 'H' SHA FINE MILLING AND OVERLAY

NOT TO SCALE (B) 2.0" SUPERPAVE ASPHALT MIX 9.5mm
(P) TOP OF EXISTING PAVEMENT AFTER 2.0" FINE MILLING

PERVIOUS CONCRETE SIDEWALK NOTES:

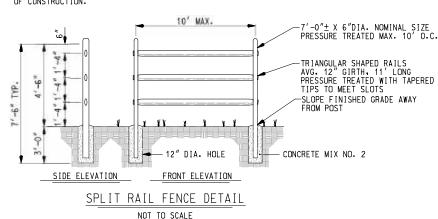
- REFER TO SECTION 902 OF MDOT SHA STANDARD SPECIFICATIONS. JULY 2019 OR LATEST VERSION, FOR PERVIOUS CONCRETE.
- SUBGRADE MUST BE LEVEL. ROTO-TILL SUBGRADE PRIOR TO INSTALLATION. INSTALL STEPS AS NEEDED TO MAINTAIN MINIMUM 6 INCHES OF AGGREGATE.
- CONSTRUCTION SPECIFICATIONS SHALL MEET MDE STORMWATER DESIGN MANUAL APPENDIX B-4.



- 1. CURB & GUTTER TO BE USED WHERE STORM WATER WILL COLLECT AT FACE OF CURB EXCEPT AS DIRECTED BY THE ENGINEER.
- 2. MIX #2 OR MIX #6 CONCRETE AS DIRECTED ON PLANS.
- SPECIAL DESKIN AS RETAINING WALL WHERE THIS DIMENSION EXCEEDS 18 NOHES. THIS BARRER IS FOR USE ONLY IN OFF-STREET AREAS WHERE VEHICLE SPEEDS ARE MINIMAL.

BARRIER CURB DETAIL NOT TO SCALE

- 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
- 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



S.R.R.

Checked by :

- CONTRACTOR SHALL INSTALL PERVIOUS CONCRETE SIDEWALK PER SPECIFICATIONS.

UPDATED 90% SUBMITTAL

DATUM: NAD 83/91 HORIZONTAL NAVD 88 VERTICAL

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

SCALE : NOT TO SCALE Project No. : C.I.P. PR. # 501744 SHEET 05 of 88

PLOTTED: 9/24/2020 FILE: M:\PROJ\214013.0010\Highways_Cadd_\pHD-D001_MD355.dgr

Drawn by : J.D.W.

RECOMMENDED FOR APPROVA

Chief, Design Section

Designed by : J.D.W.

DEPARTMENT OF TRANSPORTATION

100 EDISON PARK DRIVE, 4TH FLOOR

GAITHERSBURG, MD 20878



	EASTBOUND	EASTBOUND	EASTBOUND	
PLAN	BASELINE	ROADWAY BACK	ROADWAY BACK	REMARKS
SHEET	STATION	OF CURB OFFSET	OF CURB	
		01 00110 011021	ELEVATION	
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	

		FASTBOUND	EASTBOUND	
PLAN	BASELINE	ROADWAY BACK	ROADWAY BACK	REMARKS
SHEET	STATION	OF CURB OFFSET	OF CURB	
		01 00110 0111001	ELEVATION	
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	18.99' 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-03	501+50.00	29.98' RT.	663.83	
PS-03	501+51.27	37.92' RT.	664.01	
PS-03	501+51.28	44.03' RT.	664.12	
PS-03	501+78.61	44.07' RT.	664.43	
PS-03	501+78.61	38.00' RT.	664.09	
PS-03	501+85.74	20.79' RT.	662.66	MIDPOINT OF CURVE
PS-03	502+00.00	13.84' RT.	661.81	
PS-03	502+02.94	13.67' RT.	661.64	
PS-03	502+25.00	13.67' RT.	661.65	
PS-03	502+50.00	13.67' RT.	661.14	
PS-03	502+75.00	13.67' RT.	659.91	
PS-03	503+00.00	13.67' RT.	659.01	
PS-03	503+20.00	13.67' RT.	658.72	

		EASTBOUND	EASTBOUND	
PLAN	BASELINE	ROADWAY BACK	ROADWAY BACK	REMARKS
SHEET	STATION	OF CURB OFFSET	OF CURB	KEIVIANKS
		OF CORB OFF 3E1	ELEVATION	
PS-04	515+29.85	13.67' RT.	663.29	
PS-04	515+50.00	13.67' RT.	662.23	
PS-04	515+75.00	13.67' RT.	661.05	
PS-04	516+00.00	13.67' RT.	660.01	
PS-04	516+19.00	13.67' RT.	659.23	MIDPOINT OF CURVE
PS-04	516+25.00	13.67' RT.	658.99	
PS-04	516+50.00	13.67' RT.	657.97	
PS-04	516+75.00	13.67' RT.	657.09	
PS-04	517+00.00	13.67' RT.	656.21	
PS-04	517+08.15	13.67' RT.	656.01	
PS-04	517+25.00	13.67' RT.	655.49	
PS-04	517+50.00	13.67' RT.	654.77	
PS-04	517+75.00	13.67' RT.	654.23	
PS-04	518+00.00	13.67' RT.	653.82	
PS-04	518+25.00	13.67' RT.	653.52	
PS-04	518+50.00	13.67' RT.	653.34	
PS-04	518+69.97	13.67' RT.	653.22	LOW POINT
PS-04	518+75.00	13.67' RT.	653.23	
PS-04	519+00.00	13.67' RT.	653.33	

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	

			EASTBOUND	
PLAN	BASELINE	EASTBOUND	ROADWAY BACK	
SHEET	STATION	ROADWAY BACK	OF CURB	REMARKS
		OF CURB OFFSET	ELEVATION	
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.	650.69	
PS-06	524+50.00	21.83' RT.	649.13	
PS-06	524+74.96	25.86' RT.	647.53	
PS-06	524+96.16	28.34' RT.	646.19	MIDPOINT OF CURVE
PS-06	525+00.00	28.61' RT.	645.92	
PS-06	525+17.52	29.17' RT.	644.89	
PS-06	525+25.00	29.17' RT.	644.46	
PS-06	525+50.00	29.17' RT.	643.00	
PS-06	525+75.00	29.17' RT.	641.41	
PS-06	526+00.00	29.17' RT.	639.89	
PS-06	526+02.75	29.17' RT.	639.71	MIDPOINT OF CURVE
PS-06	526+25.00	29.17' RT.	638.32	
PS-06	526+50.00	29.17' RT.	636.82	
PS-06	526+75.00	29.17' RT.	635.32	
PS-06	526+87.99	29.17' RT.	634.55	
PS-06	527+00.00	29.17' RT.	634.03	
PS-06	527+10.04	29.17' RT.	633.61	
PS-06	527+15.04	28.84' RT.	633.41	MATCH EXISTING

PLAN	BASELINE	EASTBOUND ROADWAY BACK	EASTBOUND ROADWAY BACK	REMARKS
SHEET	STATION	OF CURB OFFSET	OF CURB	THE INDICATES
		OF CORB OFFSET	ELEVATION	
PS-07	528+36.00	28.87' RT.	629.82	MATCH EXISTING
PS-07	528+50.00	28.36' RT.	629.57	
PS-07	528+75.00	27.44' RT.	629.19	
PS-07	529+00.00	26.52' RT.	628.94	
PS-07	529+13.77	26.01' RT.	628.83	
PS-07	529+19.72	25.99' RT.	628.80	MIDPOINT OF CURVE
PS-07	529+25.00	26.31' RT.	628.77	
PS-07	529+25.67	26.37' RT.	628.76	
PS-07	529+48.00	28.53' RT.	628.56	
PS-07	529+50.00	28.69' RT.	628.55	MIDPOINT OF CURVE
PS-07	529+51.69	28.78' RT.	628.54	
PS-07	529+54.02	28.86' RT.	628.52	MATCH EXISTING

		EASTBOUND	EASTBOUND	
PLAN	BASELINE	ROADWAY BACK		REMARKS
SHEET	STATION	OF SHARED USE	OF SHARED USE	NEWANG
		PATH OFFSET	PATH ELEVATION	
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	

		EASTBOUND	EASTBOUND	
PLAN	BASELINE	ROADWAY BACK	ROADWAY BACK	DE4.44.DVG
SHEET	STATION	OF SHARED USE	OF SHARED USE	REMARKS
		PATH OFFSET	PATH ELEVATION	
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	
			•	•
PS-02	498+82.59	26.00' RT.	659.16	
PS-02	499+00.00	26.00' RT.	660.03	
PS-02	499+25.00	26.00' RT.	660.77	
PS-02	499+31.82	26.00' RT.	660.94	
PS-02	499+39.98	25.35' RT.	661.12	MIDPOINT OF CURVE
PS-02	499+47.93	23.44' RT.	661.28	
PS-02	499+50.00	22.83' RT.	661.32	
PS-02	499+53.44	22.11' RT.	661.38	MIDPOINT OF CURVE
PS-02	499+59.09	21.67' RT.	661.49	
PS-02	499+62.79	21.67' RT.	661.57	
PS-02	499+68.44	22.11' RT.	661.71	MIDPOINT OF CURVE
PS-02	499+73.95	23.44' RT.	661.86	
PS-02	499+75.00	23.77' RT.	661.88	
PS-02	499+81.90	25.35' RT.	662.05	MIDPOINT OF CURVE
PS-02	499+90.06	26.00' RT.	662.22	
PS-02	500+00.00	26.00' RT.	662.42	
PS-02	500+25.00	26.00' RT.	663.02	
PS-02	500+50.00	26.00' RT.	663.66	
PS-02	500+75.00	26.00' RT.	663.95	
PS-02	501+00.00	26.00' RT.	663.84	
PS-02	501+25.00	26.00' RT.	663.41	
PS-02	501+25.94	26.00' RT.	663.31	
PS-02	501+36.55	30.39' RT.	663.68	MIDPOINT OF CURVE
PS-02	501+40.94	41.00' RT.	664.13	
PS-02	501+40.94	44.00' RT.	664.20	
PS-02	501+39.17	26.00' RT.	663.10	
PS-02	501+48.09	26.00' RT.	662.96	

		EASTBOUND	EASTBOUND	
PLAN	BASELINE	ROADWAY BACK	ROADWAY BACK	REMARKS
SHEET	STATION	OF SHARED USE	OF SHARED USE	REIVIARES
		PATH OFFSET	PATH ELEVATION	
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	

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

PLAN BASELINE STATION COADWAY BACK REMARKS PATH OFFSET PAT					
STATION			EASTBOUND	EASTBOUND	
STATION	PLAN	BASELINE	ROADWAY BACK	ROADWAY BACK	
PS-05 519+00.00 27.00°RT. 653.07 PS-05 519+25.00 27.00°RT. 653.29 PS-05 519+41.38 27.32°RT. 653.45 PS-05 519+41.38 27.32°RT. 653.45 PS-05 519+41.38 27.32°RT. 653.45 PS-05 519+41.39 28.27°RT. 653.49 PS-05 519+61.30 29.67°RT. 653.65 PS-05 519+61.30 29.67°RT. 653.65 PS-05 519+87.40 28.27°RT. 653.65 PS-05 519+87.40 27.00°RT. 654.00 PS-05 519+87.40 27.00°RT. 654.10 PS-05 519+87.40 27.00°RT. 654.10 PS-05 520+25.00 27.00°RT. 654.11 PS-05 520+50.00 27.00°RT. 655.18 PS-05 520+50.00 27.00°RT. 655.64 PS-05 520+80.82 27.00°RT. 655.89 PS-05 520+95.00 27.00°RT. 655.89 PS-05 520+95.00 27.00°RT. 655.89 PS-05 520+95.00 27.00°RT. 656.61 PS-05 520+95.00 28.50°RT. 656.39 PS-05 520+95.00 28.50°RT. 656.39 PS-05 521+00.00 28.50°RT. 656.39 PS-05 521+00.00 28.50°RT. 656.49 PS-05 521+12.73 28.32°RT. 656.49 PS-05 521+12.73 28.32°RT. 656.49 PS-05 521+25.00 27.00°RT. 657.34 PS-05 521+25.00 27.00°RT. 657.34 PS-05 521+25.00 27.00°RT. 657.34 PS-05 521+25.00 27.00°RT. 658.19 PS-05 522+25.00 27.00°RT. 658.19 PS-05 522+50.00 27.00°RT. 657.34 PS-05 522+50.00 27.00°RT. 658.19 PS-05 522+50.00 27.00°RT. 658.19 PS-05 522+50.00 27.00°RT. 658.19 PS-05 522+50.00 27.00°RT. 657.86 PS-05 522+50.00 27.00°RT. 658.19 PS-05 522+50.00 27.00°RT. 658.19 PS-05 522+50.00 27.00°RT. 658.19 PS-05 522+50.00 27.00°RT. 657.86 PS-05 522+50.00 27.00°RT. 657.86 PS-05 522+50.00 27.00°RT. 657.86 PS-05 522+50.00 27.00°RT. 657.86 PS-05 522+50.00 27.00°RT. 657.64 PS-05 522+50.00 27.00°RT. 657.64 PS-05 522+50.00 27.00°RT. 657.64 PS-05 522+50.00 24.00°RT. 657.79 PS-05 522+89.62 24.00°RT. 657.79 PS-05 522+89.62 24.00°RT. 657.79 PS-05 522+89.62 24.00°RT. 657.79 PS-05 523+50.00 24.00°RT. 657.79 PS-05 523+50.00 24.00°RT. 657.46 PS-05 523+50.00 24.00°RT. 657.79 PS-05 523+50.00 24.00°RT. 657.79 PS-05 523+50.00 24.00°RT. 657.74	SHEET	STATION	OF SHARED USE	OF SHARED USE	REMARKS
PS-05 519+25.00 27.00° RT. 653.29 HIDPOINT OF CURVE PS-05 519+35.10 27.00° RT. 653.39 MIDPOINT OF CURVE PS-05 519+47.59 28.27° RT. 653.49 MIDPOINT OF CURVE PS-05 519+50.00 28.72° RT. 653.65 MIDPOINT OF CURVE PS-05 519+61.30 29.67° RT. 653.65 MIDPOINT OF CURVE PS-05 519+75.00 28.27° RT. 654.00 MIDPOINT OF CURVE PS-05 519+87.49 27.00° RT. 654.10 MIDPOINT OF CURVE PS-05 520+00.00 27.00° RT. 654.10 MIDPOINT OF CURVE PS-05 520+50.00 27.00° RT. 655.18 MIDPOINT OF CURVE PS-05 520+50.00 27.00° RT. 655.18 MIDPOINT OF CURVE PS-05 520+50.00 27.00° RT. 655.78 MIDPOINT OF CURVE PS-05 520+50.00 27.00° RT. 655.84 MIDPOINT OF CURVE PS-05 520+50.00 27.20° RT. 655.89 MIDPOINT OF CURVE			PATH OFFSET	PATH ELEVATION	
PS-05 519-35.10 27.00'RT. 653.39 MIDPOINT OF CURVE 653.45 ps-05 519-41.38 27.32'RT. 653.45 ps-05 519-47.50 28.27'RT. 653.45 ps-05 519-50.00 28.27'RT. 653.65 ps-05 519-50.00 28.27'RT. 653.65 ps-05 519-75.00 28.27'RT. 653.65 ps-05 519-75.00 28.27'RT. 653.65 ps-05 519-87.50 29.67'RT. 653.65 midpPOINT OF CURVE 65.05 519-87.00 27.00'RT. 654.00 midpPOINT OF CURVE 65.05 519-87.00 27.00'RT. 654.00 ps-05 520-40.00 27.00'RT. 654.28 ps-05 520-40.00 27.00'RT. 654.28 ps-05 520-95.00 27.00'RT. 655.64 ps-05 520-85.00 27.00'RT. 655.64 ps-05 520-85.00 27.00'RT. 655.64 ps-05 520-85.00 27.00'RT. 655.78 ps-05 520-95.00 27.00'RT. 655.78 ps-05 520-95.00 27.20'RT. 656.10 ps-05 520-95.10 28.50'RT. 656.38 ps-05 520-95.11 22.7.8'RT. 656.10 ps-05 521-12.27 28.50'RT. 656.53 ps-05 521-12.27 28.50'RT. 656.53 ps-05 521-12.27 28.50'RT. 656.65 ps-05 521-12.27 28.50'RT. 656.61 ps-05 521-12.73 28.32'RT. 656.61 ps-05 521-12.74 27.78'RT. 656.61 ps-05 521-12.74 27.78'RT. 656.61 ps-05 521-12.74 27.78'RT. 656.61 ps-05 521-12.74 27.00'RT. 656.85 ps-05 521-12.50 27.00'RT. 656.85 ps-05 521-12.50 27.00'RT. 656.80 ps-05 521-12.50 27.00'RT. 656.85 ps-05 521-12.50 27.00'RT. 656.85 ps-05 521-12.50 27.00'RT. 656.85 ps-05 521-12.50 27.00'RT. 656.85 ps-05 521-12.50 27.00'RT. 657.77 ps-05 521-12.50 27.00'RT. 657.74 ps-05 521-12.50 27.00'RT. 658.13 ps-05 521-12.50 27.00'RT. 657.86 ps-05 521-12.50 27.00'RT. 657.64 ps-05 521-12.50 27.00'RT. 657.64 ps-05 521-12.50 27.00'RT. 657.64 ps-05 521-12.50 24.00'RT. 657.64 ps	PS-05	519+00.00	27.00' RT.	653.07	
PS-05 519-41.38 27.32' RT. 653.45 MIDPOINT OF CURVE PS-05 519-47.59 28.27' RT. 653.49 PS-05 519-61.30 29.67' RT. 653.65 MIDPOINT OF CURVE PS-05 519-61.30 29.67' RT. 653.65 MIDPOINT OF CURVE PS-05 519-87.49 27.00' RT. 654.10 PS-05 519-87.49 27.00' RT. 654.10 PS-05 520-90.00 27.00' RT. 654.10 PS-05 520-95.00 27.00' RT. 654.11 PS-05 520-95.00 27.00' RT. 655.18 PS-05 520-95.00 27.00' RT. 655.64 PS-05 520-95.00 27.00' RT. 655.64 PS-05 520-95.00 27.00' RT. 655.89 PS-05 520-95.00 27.00' RT. 655.89 PS-05 520-95.00 28.50' RT. 656.53 PS-05 520-95.80 28.20' RT. 656.53 PS-05 521-90.00 28.50' RT. 656.53 PS-05 521+90.00 28.50' RT. 656.53 PS-05 521+90.00 28.50' RT. 656.53 PS-05 521+12.73 28.32' RT. 656.49 PS-05 521+12.73 28.32' RT. 656.49 PS-05 521+12.74 27.78' RT. 656.64 PS-05 521+25.00 27.00' RT. 655.74 PS-05 521+25.00 27.00' RT. 656.74 PS-05 521+27.71 27.00' RT. 656.74 PS-05 521+27.71 27.00' RT. 656.80 PS-05 521+27.71 27.00' RT. 656.80 PS-05 521+27.71 27.00' RT. 656.81 PS-05 521+50.00 27.00' RT. 657.34 PS-05 521+50.00 27.00' RT. 657.34 PS-05 521+50.00 27.00' RT. 658.19 PS-05 522+50.00 27.00' RT. 657.86 PS-05 522+50.00 27.00' RT. 657.64 PS-05 522+89.62 24.00' RT. 657.79 PS-05 522+89.62 24.00' RT. 657.79 PS-05 523+50.00 24.00' RT. 657.64 PS-05 523+50.00 24.0	PS-05	519+25.00	27.00' RT.	653.29	
PS-05 519+47.59 28.27' RT. 653.49 PS-05 519+50.00 28.72' RT. 653.51 PS-05 519+81.21 27.32' RT. 653.65 MIDPOINT OF CURVE 65.00 PS-05 519+81.21 27.32' RT. 654.00 PS-05 520+80.00 27.00' RT. 654.00 PS-05 520+50.00 27.00' RT. 654.10 PS-05 520+50.00 27.00' RT. 655.18 PS-05 520+50.00 27.00' RT. 655.64 PS-05 520+50.00 27.00' RT. 655.64 PS-05 520+85.99 27.20' RT. 655.89 PS-05 520+95.00 28.32' RT. 656.10 PS-05 520+95.00 28.32' RT. 656.53 PS-05 520+95.00 28.32' RT. 656.53 PS-05 521+00.00 28.50' RT. 656.53 PS-05 521+00.52 28.50' RT. 656.53 PS-05 521+00.52 28.50' RT. 656.65 PS-05 521+17.41 27.78' RT. 656.61 PS-05 521+27.71 27.00' RT. 656.61 PS-05 521+25.00 27.00' RT. 656.80 PS-05 521+25.00 27.00' RT. 656.80 PS-05 521+25.00 27.00' RT. 657.74 PS-05 521+25.00 27.00' RT. 657.74 PS-05 521+50.00 27.00' RT. 657.74 PS-05 522+25.00 27.00' RT. 657.74 PS-05 522+25.00 27.00' RT. 658.19 PS-05 522+25.00 27.00' RT. 657.86 PS-05 522+25.00 27.00' RT. 657.63 PS-05 522+25.00 27.00' RT. 657.63 PS-05 522+25.00 27.00' RT. 657.63 PS-05 522+25.00 27.00' RT. 657.65 PS-0	PS-05	519+35.10	27.00' RT.	653.39	
PS-05 519+50.00 28.72' RT. 653.51 PS-05 519+61.30 29.67' RT. 653.65 PS-05 519+61.30 29.67' RT. 653.89 PS-05 519+87.40 29.67' RT. 653.89 PS-05 519+81.21 27.32' RT. 654.00 PS-05 519+80.49 27.00' RT. 654.10 PS-05 520+00.00 27.00' RT. 654.71 PS-05 520+50.00 27.00' RT. 655.18 PS-05 520+50.00 27.00' RT. 655.78 PS-05 520+80.82 27.00' RT. 655.78 PS-05 520+80.99 27.20' RT. 655.89 PS-05 520+95.81 28.32' RT. 656.38 PS-05 520+95.81 28.32' RT. 656.49 PS-05 521+00.52 28.50' RT. 656.49 PS-05 521+00.52 28.50' RT. 656.49 PS-05 521+12.73 28.32' RT. 656.49 PS-05 521+22.50 27.00' RT. 656.80 <td>PS-05</td> <td>519+41.38</td> <td>27.32' RT.</td> <td>653.45</td> <td>MIDPOINT OF CURVE</td>	PS-05	519+41.38	27.32' RT.	653.45	MIDPOINT OF CURVE
PS-05 519+61.30 29.67' RT. 653.65 MIDPOINT OF CURVE PS-05 519+75.00 28.77' RT. 653.89 PS-05 519+87.49 27.00' RT. 654.10 PS-05 519+87.49 27.00' RT. 654.10 PS-05 520+00.00 27.00' RT. 654.11 PS-05 520+50.00 27.00' RT. 654.11 PS-05 520+50.00 27.00' RT. 655.18 PS-05 520+75.00 27.00' RT. 655.18 PS-05 520+75.00 27.00' RT. 655.18 PS-05 520+95.00 27.00' RT. 655.89 PS-05 520+95.11 27.78' RT. 656.10 PS-05 520+95.11 28.32' RT. 656.39 PS-05 521+00.00 28.50' RT. 656.53 PS-05 521+00.00 28.50' RT. 656.53 PS-05 521+00.00 28.50' RT. 656.53 PS-05 521+12.73 28.32' RT. 656.49 PS-05 521+12.73 28.32' RT. 656.49 PS-05 521+12.73 28.32' RT. 656.49 PS-05 521+25.00 27.00' RT. 656.74 PS-05 521+25.00 27.00' RT. 656.74 PS-05 521+25.00 27.00' RT. 656.80 PS-05 521+25.00 27.00' RT. 656.80 PS-05 521+50.00 27.00' RT. 656.81 PS-05 521+50.00 27.00' RT. 657.34 PS-05 521+50.00 27.00' RT. 657.34 PS-05 521+50.00 27.00' RT. 658.19 PS-05 522+25.00 27.00' RT. 657.86 PS-05 522+50.00 27.00' RT. 657.64 PS-05 522+82.90 24.30' RT. 657.79 PS-05 522+89.62 24.00' RT. 657.79 PS-05 523+50.00 24.00' RT. 657.79 PS-05 523+50.00 24.00' RT. 657.46 PS-05 523+50.00 24.00' RT. 657.46 PS-05 523+50.00 24.00' RT. 657.79 PS-05 523+50.00 24.00' RT. 657.46 PS-05 523+50.00 24.00' RT. 657.79 PS-05 523+50.00 24.00' RT. 657.46 PS-05 523+50.00 24.00' RT. 657.46 PS-05 523+50.00 24.00' RT. 657.46 PS-05 523+50.00 24.00'	PS-05	519+47.59	28.27' RT.	653.49	
PS-05 519+75.00 28.27'RT. 653.89 PS-05 519+81.21 27.32'RT. 654.00 PS-05 519+87.49 27.00'RT. 654.00 PS-05 520+00.00 27.00'RT. 654.28 PS-05 520+00.00 27.00'RT. 654.71 PS-05 520+00.00 27.00'RT. 655.18 PS-05 520+00.00 27.00'RT. 655.64 PS-05 520+85.99 27.20'RT. 655.89 PS-05 520+91.12 27.78'RT. 655.89 PS-05 520+91.12 27.78'RT. 656.53 PS-05 520+90.00 28.50'RT. 656.53 PS-05 521+00.52 28.50'RT. 656.53 PS-05 521+00.52 28.50'RT. 656.61 PS-05 521+12.73 28.32'RT. 656.61 PS-05 521+12.73 28.32'RT. 656.61 PS-05 521+12.73 28.32'RT. 656.61 PS-05 521+12.74 27.78'RT. 656.61 PS-05 521+12.74 27.78'RT. 656.61 PS-05 521+12.74 27.78'RT. 656.61 PS-05 521+12.74 27.78'RT. 656.61 PS-05 521+12.74 27.0'RT. 656.80 PS-05 521+25.00 27.00'RT. 656.80 PS-05 521+25.00 27.00'RT. 657.34 PS-05 521+25.00 27.00'RT. 657.34 PS-05 521+75.00 27.00'RT. 657.34 PS-05 521+75.00 27.00'RT. 657.77 PS-05 521+25.00 27.00'RT. 658.19 PS-05 522+25.00 27.00'RT. 657.86 PS-05 522+25.00 27.00'RT. 657.64 PS-05 522+25.00 24.00'RT. 657.64 PS-05 522+25.00 24.00'RT. 657.64 PS-05 522+25.00 24.00'RT. 657.64 PS-05 522+25.00 24.00'RT. 657.79 PS-05 523+50.00 24.00'RT. 657.46 P	PS-05	519+50.00	28.72' RT.	653.51	
PS-05 519+81.21 27.32' RT. 654.00 MIDPOINT OF CURVE PS-05 519+87.49 27.00' RT. 654.10 RS-05 RS-000.00 27.00' RT. 654.21 RS-05 RS-05 S20+25.00 27.00' RT. 654.71 RS-05 S20+50.00 27.00' RT. 655.18 RS-05 S20+50.00 27.00' RT. 655.78 RS-05 S20+80.82 27.00' RT. 655.78 RS-05 S20+80.82 27.00' RT. 655.78 RS-05 S20+95.81 28.32' RT. 656.38 RS-05 S20+95.81 28.32' RT. 656.38 RS-05 S21+00.50 28.50' RT. 656.46 RS-05 S21+00.52 28.50' RT. 656.46 MIDPOINT OF CURVE PS-05 521+00.52 28.50' RT. 656.49 MIDPOINT OF CURVE RS-05 S21+12.73 28.32' RT. 656.49 MIDPOINT OF CURVE RS-05 S21+22.54 27.00' RT. 656.80 MIDPOINT OF CURVE RS-05 S21+22.50 27.00' RT. 656.80 AS-07 MIDPOINT OF CURVE RS-05 S21+27.71 27.00' RT. 656.80	PS-05	519+61.30	29.67' RT.	653.65	MIDPOINT OF CURVE
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PS-05 522+82.90 24.36° RT. 657.52 MIDPOINT OF CURVE PS-05 522+89.62 24.00° RT. 657.79 PS-05 523+90.00 24.00° RT. 657.46 657.46 PS-05 523+50.00 24.00° RT. 656.42					
PS-05 522+89.62 24.00° RT. 657.79 PS-05 523+00.00 24.00° RT. 657.46 PS-05 523+50.00 24.00° RT. 656.42					MIDDOINT OF CURVE
PS-05 523+00.00 24.00° RT. 657.46 PS-05 523+50.00 24.00° RT. 656.42					INITOPOLINT OF CURVE
PS-05 523+50.00 24.00' RT. 656.42					
15-03 523150,00 24,00 N1. 033,07					
	15405	323.30.00	24.00 KI.	033.07	

		EASTBOUND	EASTBOUND	
PLAN	BASELINE	ROADWAY BACK	ROADWAY BACK	REMARKS
SHEET	STATION	OF SHARED USE	OF SHARED USE	REMARKS
		PATH OFFSET	PATH ELEVATION	
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+43.44	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	

		EASTBOUND	EASTBOUND	
PLAN	BASELINE	ROADWAY BACK	ROADWAY BACK	REMARKS
SHEET	STATION	OF SHARED USE	OF SHARED USE	REIVIARNS
		PATH OFFSET	PATH ELEVATION	
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	528+55.15	36.35' RT.	629.33	MIDPOINT OF CURVE
PS-07	528+59.73	36.00' RT.	629.26	
PS-07	528+75.00	35.44' RT.	629.03	
PS-07	529+00.00	34.52' RT.	628.78	
PS-07	529+14.06	34.01' RT.	628.67	
PS-07	529+19.48	33.99' RT.	628.64	MIDPOINT OF CURVE
PS-07	529+25.00	34.34' RT.	628.61	
PS-07	529+47.66	36.54' RT.	628.41	
PS-07	529+50.00	36.73' RT.	628.39	
PS-07	529+51.16	36.79' RT.	628.38	MIDPOINT OF CURVE
PS-07	529+54.66	36.86' RT.	628.36	
PS-07	529+75.00	36.78' RT.	628.47	
PS-07	529+79.58	36.76' RT.	628.50	MIDPOINT OF CURVE
PS-07	530+00.00	36.70' RT.	628.68	
PS-07	530+13.37	36.56' RT.	628.96	
PS-07	530+24.21	37.46' RT.	629.18	MIDPOINT OF CURVE
PS-07	530+25.00	37.61' RT.	629.20	
PS-07	530+34.70	40.36' RT.	629.34	
PS-07	530+50.00	44.22' RT.	629.70	
PS-07	530+51.53	44.40' RT.	629.75	MIDPOINT OF CURVE
PS-07	530+68.81	44.05' RT.	630.27	
PS-07	530+75.00	43.47' RT.	630.49	
PS-07	530+85.65	44.01' RT.	630.86	MIDPOINT OF CURVE
PS-07	531+00.00	47.98' RT.	631.28	
PS-07	531+01.81	48.78' RT.	631.32	
PS-07	531+15.05	53.31' RT.	631.67	MIDPOINT OF CURVE
PS-07	531+25.00	54.83' RT.	631.98	
PS-07	531+28.92	55.01' RT.	632.12	
PS-07	531+37.02	55.17' RT.	633.61	

UPDATED 90% SUBMITTAL

DATUM: NAD 83/91 HORIZONTAL NAVD 88 VERTICAL

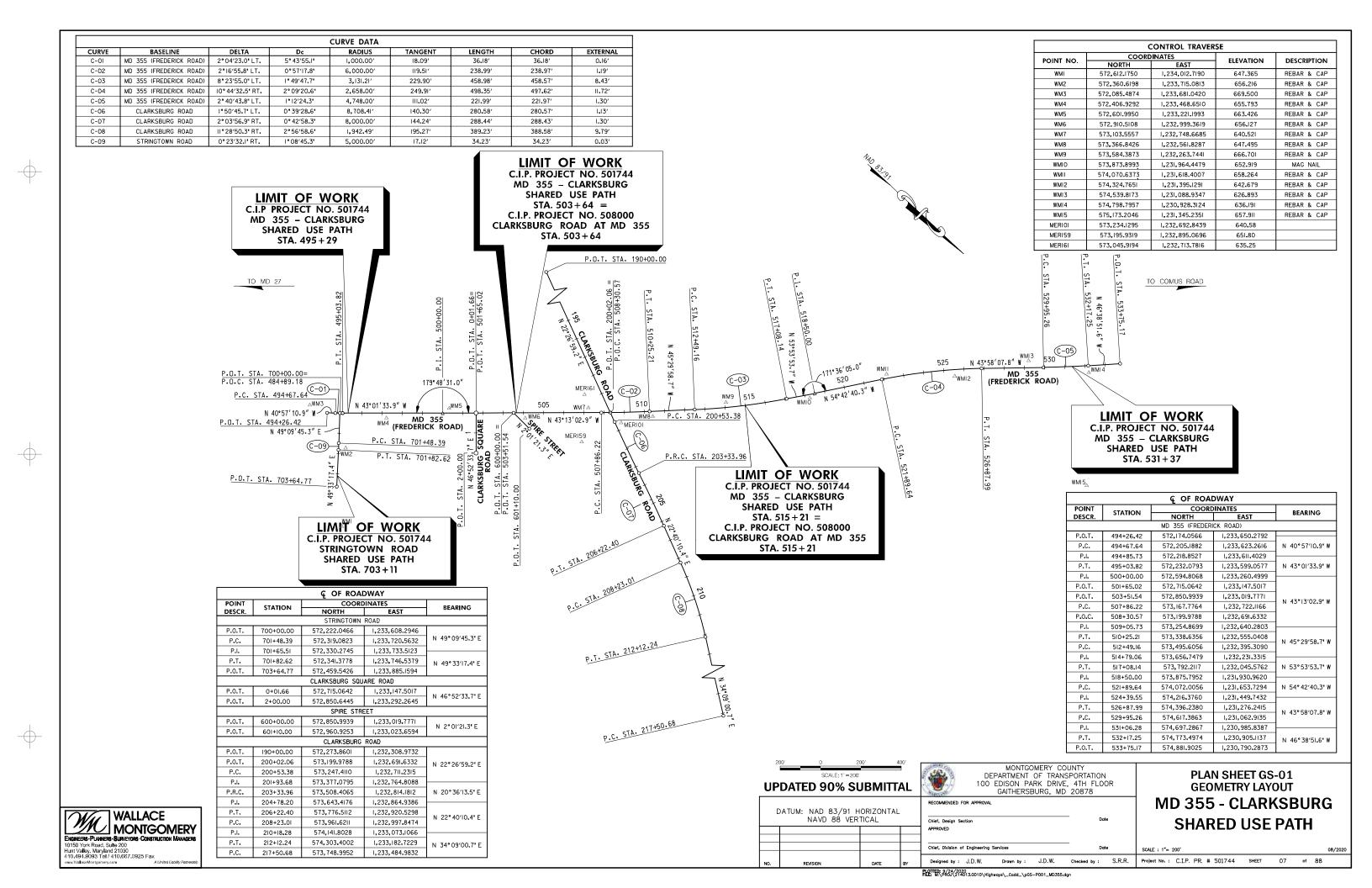
MONTGOMERY COUNTY DEPARTMENT OF TRANSPORTATION 100 EDISON PARK DRIVE, 4TH FLOOR GAITHERSBURG, MD 20878

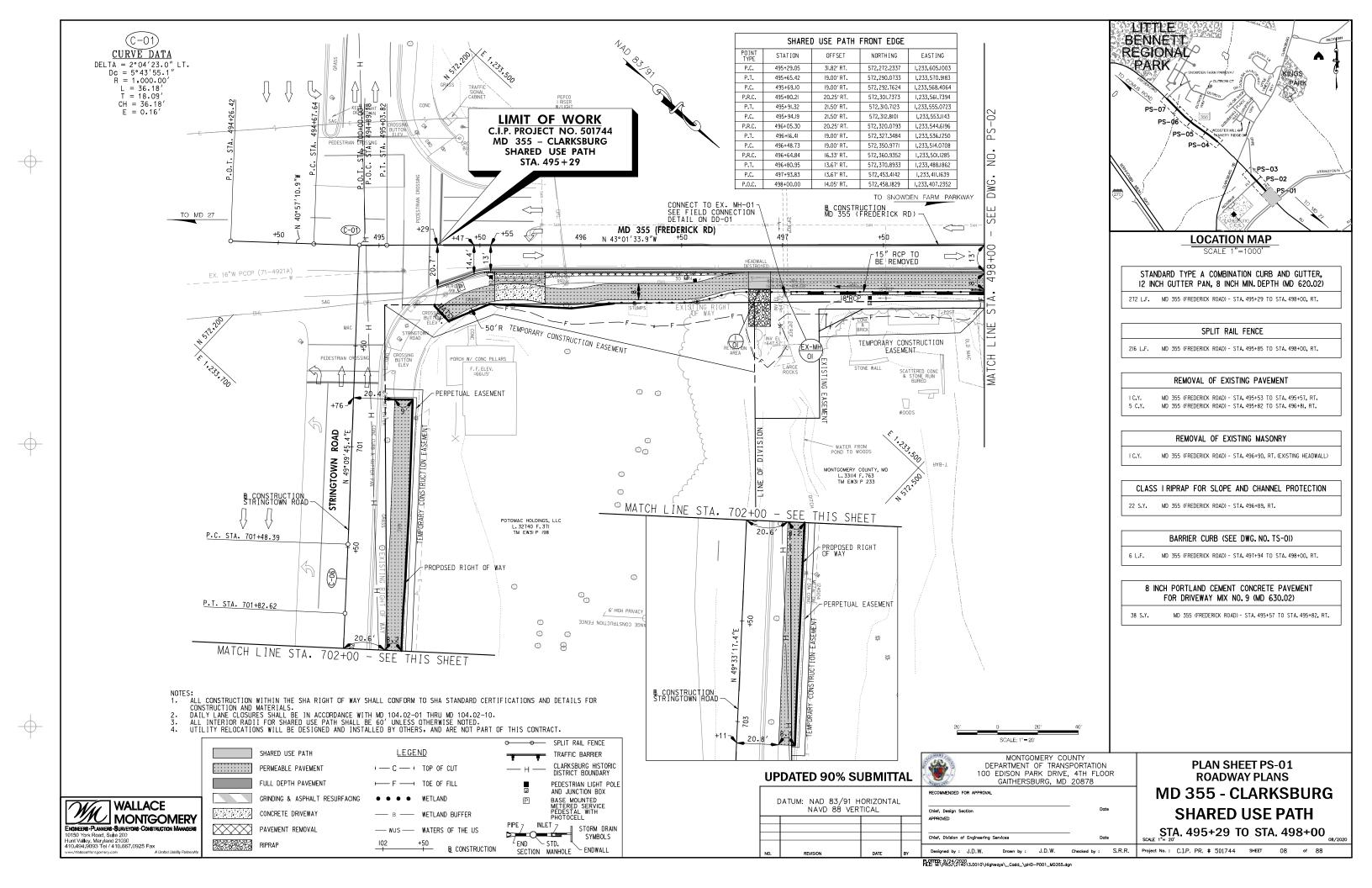
RECOMMENDED FOR APPROVAL Designed by : J.D.W. Drawn by : J.D.W. Checked by : S.R.R. Project No. : C.I.P. PR, # 501744 SHEET 06 of 88

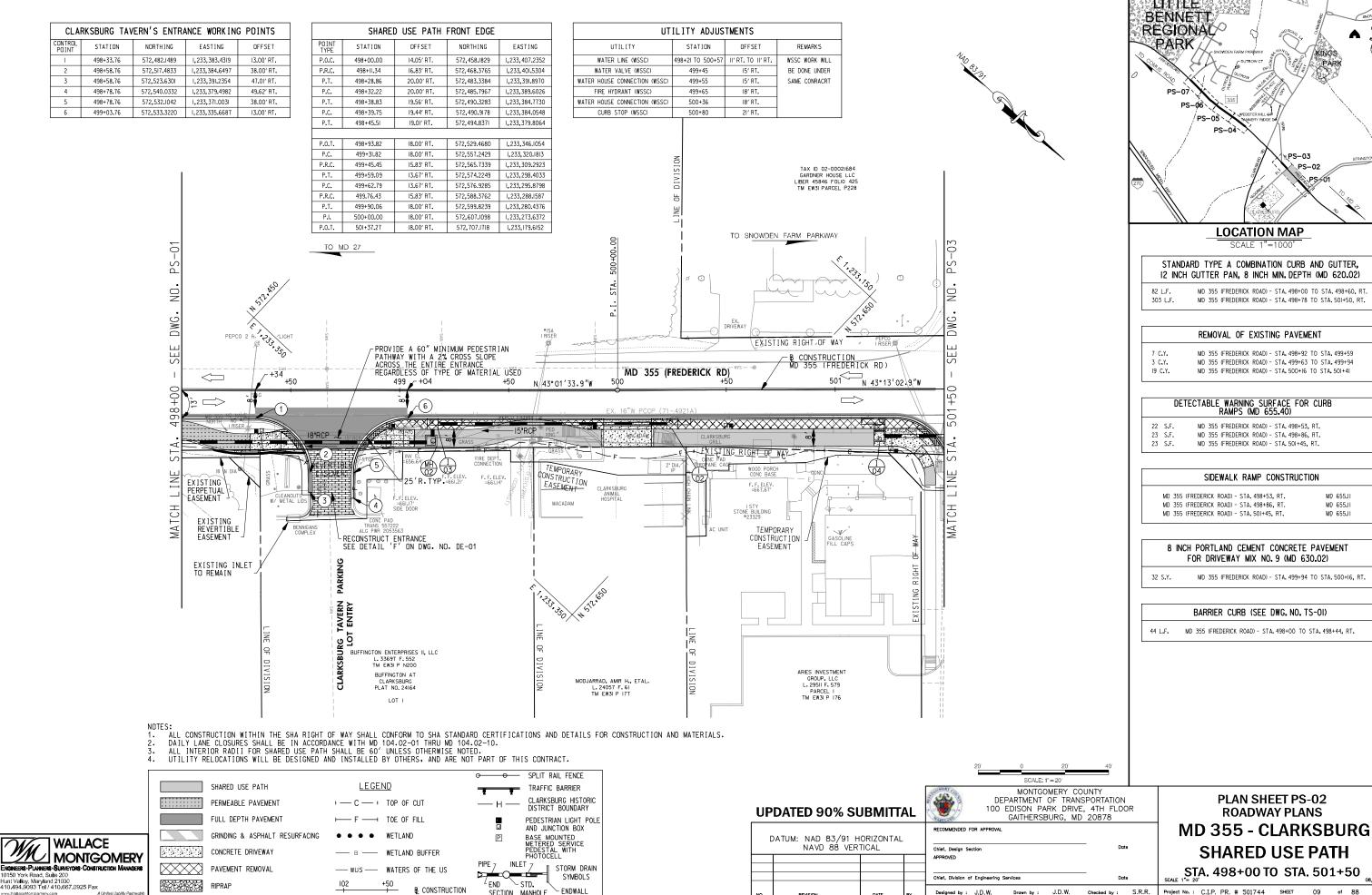
PLAN SHEET CR-01 **CURB ELEVATIONS AND OFFSETS** MD 355 - CLARKSBURG **SHARED USE PATH**

SCALE : N.T.S.









SECTION MANHOLE

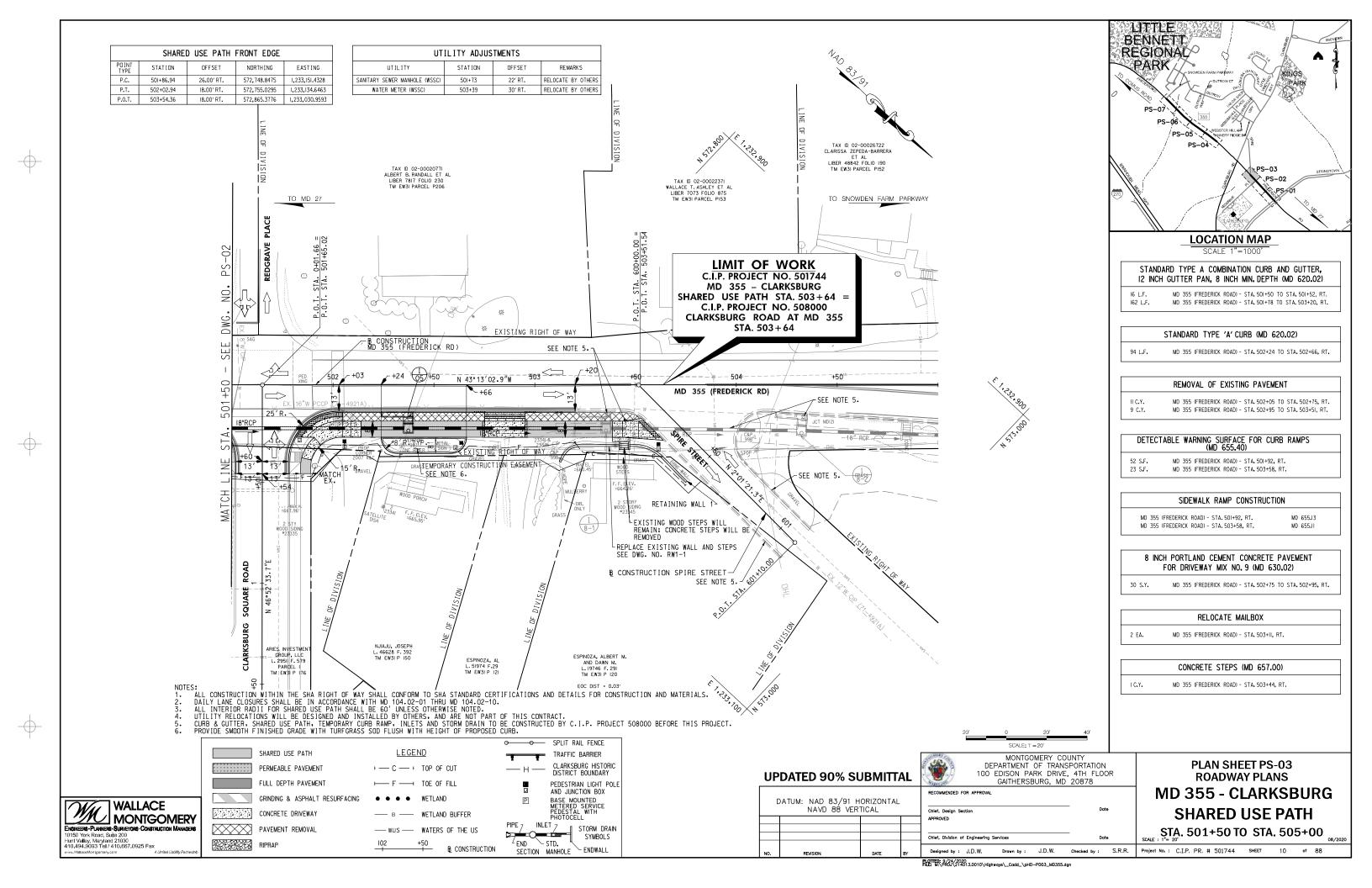
PLOTTED: 9/24/2020 FILE: M:\PRO\\214013.0010\Highways_Cadd_\pHD-P002_MD355.dgn

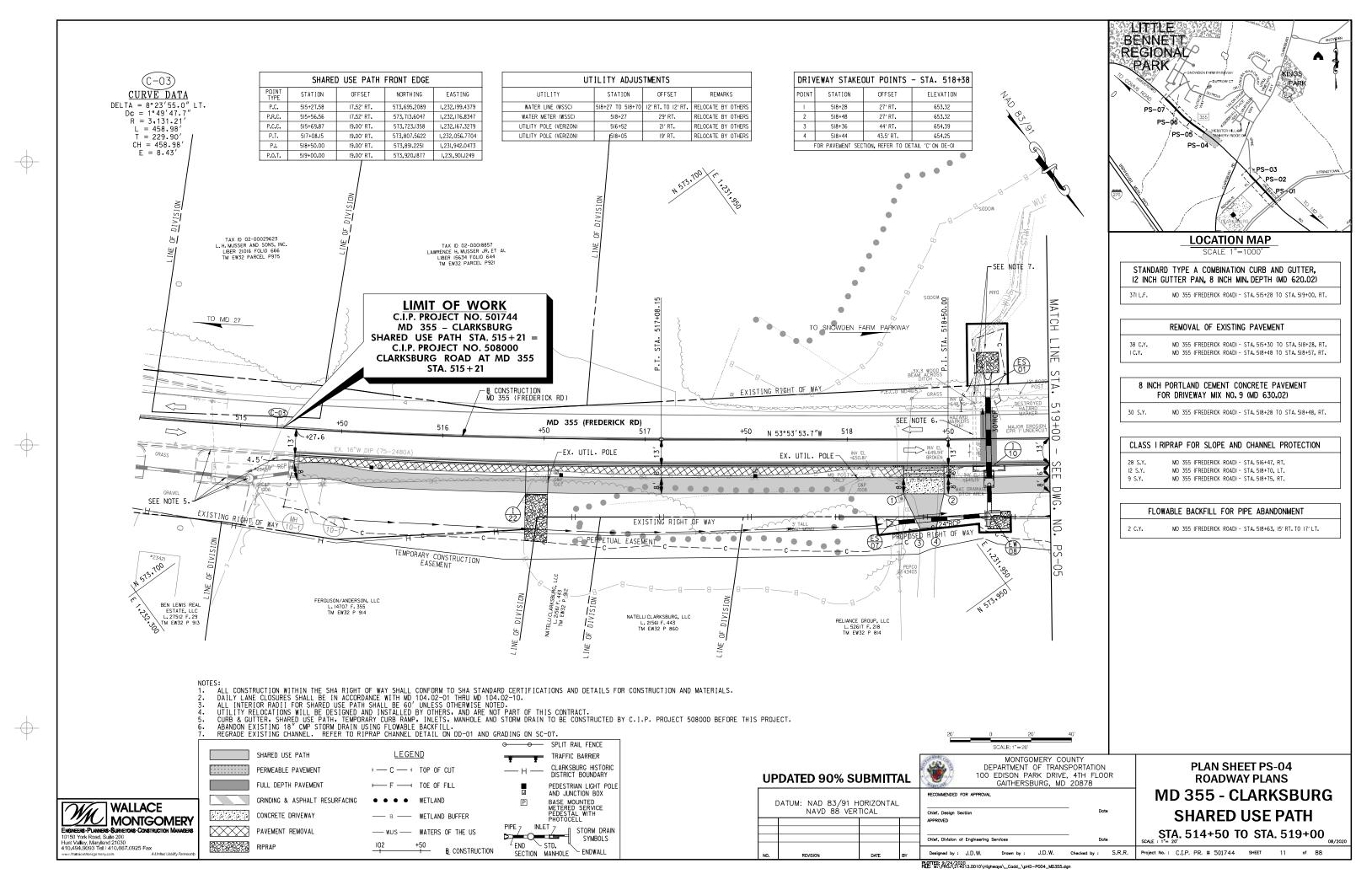
Designed by : J.D.W.

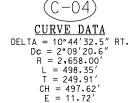
Project No.: C,I,P, PR, # 501744 SHEET 09 of 88

MD 655.II

MD 655.II







SHARED USE PATH FRONT EDGE						
POINT TYPE	STATION	OFFSET	NORTH ING	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+58.67	19.00' RT.	574,069,6236	1,231,689,9817		
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		

TO MD 27

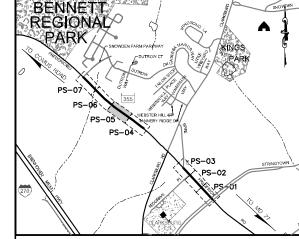
-EX. UTIL. POLE

W/LIGHT P.E.C

N 54°42′40.3″W 520

UTILITY ADJUSTMENTS					
UTILITY	STAT10N	OFFSET	REMARKS		
FIRE HYDRANT (WSSC)	519+55	21′ RT.	RELOCATE BY OTHERS		
WATER HOUSE CONNECTION (WSSC)	520+25	16' RT.	RELOCATE BY OTHERS		
WATER METER (WSSC)	520+25	27′ RT.	RELOCATE BY OTHERS		
			•		

DRI	VEWAY STAKE	OUT 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 SEC	TION, REFER TO DE	TAIL 'C' ON DE-OI



LOCATION MAP

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

MD 355 (FREDERICK ROAD) - STA. 519+00 TO STA. 523+50, RT.

REMOVAL OF EXISTING PAVEMENT

MD 355 (FREDERICK ROAD) - STA. 519+52 TO STA. 520+11, RT. 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)

MD 355 (FREDERICK ROAD) - STA.520+20 TO STA.520+40, RT. MD 355 (FREDERICK ROAD) - STA.522+64 TO STA.522+84, RT.

REMOVAL OF EXISTING MASONRY

MD 355 (FREDERICK ROAD) - STA. 521+90, RT. (STONE WALL)

RELOCATE MAILBOX

MD 355 (FREDERICK ROAD) - STA, 520+44, RT.

REMOVE 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

MD 355 (FREDERICK ROAD) - STA. 521+33, RT.

MD 355 (EREDERICK ROAD) - STA, 519+89, RT. MD 355 (FREDERICK ROAD) - STA, 520+57, RT. 16 S.Y.

EXISTING RIGHT OF WAY

 $\frac{1}{11}$ 50

- 型 CONSTRUCTION MD 355 (FREDERICK RD)

EX. UTIL. POLE-

521

PERPETUAL EASEMENT

+50

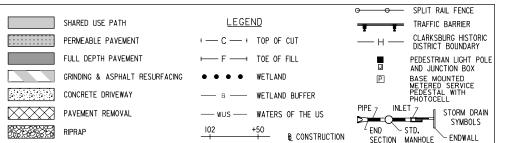
LE, DU CONG L. 35065 F. 509 TM EW32 P 759

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.

UTILITY RELOCATIONS WILL BE DESIGNED AND INSTALLED BY OTHERS, AND ARE NOT PART OF THIS CONTRACT.



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

DEPARTMENT OF TRANSPORTATION 100 EDISON PARK DRIVE, 4TH FLOOR **UPDATED 90% SUBMITTAL** GAITHERSBURG, MD 20878 RECOMMENDED FOR APPROVA DATUM: NAD 83/91 HORIZONTAL NAVD 88 VERTICAL

Designed by : J.D.W.

PLAN SHEET PS-05 ROADWAY PLANS MD 355 - CLARKSBURG **SHARED USE PATH** STA. 519+00 TO STA. 523+50

Checked by : S.R.R. Project No.: C.I.P. PR. # 501744 SHEET 12 of 88

PLOTTED: 9/24/2020 FILE: M:\PROJ\214013.0010\Highways_Codd_\pHD-P005_MD355.dgm

WALLACE MONTGOMERY MANAGERY ENSINEERS - PLANEERS - SURVEYORS - CONSTRUCTION MAN 10150 York Road, Suite 200 Hunt Valley, Maryland 21030 410,494,999 Tel / 410,667,0925 Fax www.Wallacehlonigomery.com

TEMPORARY CONSTRUCTION

EASEMENT

RELIANCE GROUP, LLC

L.52617 F.218 TM EW32 P 814

MD 355 (FREDERICK RD)

522

EX. UTIL. POLE-

DESTROYED EXISTING RIGHT OF WAY

VU. CHUNG D. & Q. T. L.10438 F.755 TM EW32 P 757

PROPOSED RIGHT OF

TEMPORARY CONSTRUCTION EASEMENT

PROPOSED RETAINING WALL 2

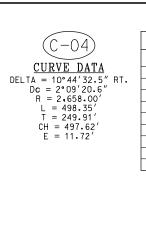
4

TO SNOWDEN FARM PARKWAY

523

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

Drawn by : J.D.W.



| WALLACE

RIPRAP

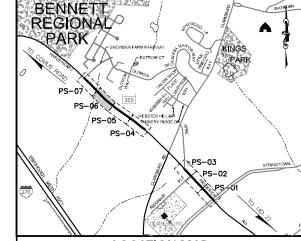
WALLACE MONTGOMERY

ENGINEERS - PLANNERS - SURVEYORS - CONSTRUCTION 10150 York Road, Suite 200 Hunt Valley, Maryland 21030 410.494.993 Tel / 410.667.0925 Fax www.WallaceMonagomery.com A Limited Live Construction of the Constru

	SHARE	D USE PATH	FRONT EDGE	
POINT TYPE	STATION	OFFSET	NORTH1NG	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.	574,264,1040	1,231,460,6110
P.C.C.	525+01.39	39.67′ RT.	574,296,070	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

UT	ILITY ADJUS	TMENTS	
UTILITY	STAT10N	OFFSET	REMARKS
WATER HOUSE CONNECTION (WSSC)	523+80	12' RT.	RELOCATE BY OTHERS
UTILITY POLE (VERIZON)	524+11	21' RT.	RELOCATE BY OTHERS
UTILITY POLE (VERIZON)	524+87	28' RT.	RELOCATE BY OTHERS
UNDERGROUND FIBER OPTIC (VZN)	527+76	45′ RT.	RELOCATE BY OTHERS

TN10	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



LOCATION MAP

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

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)

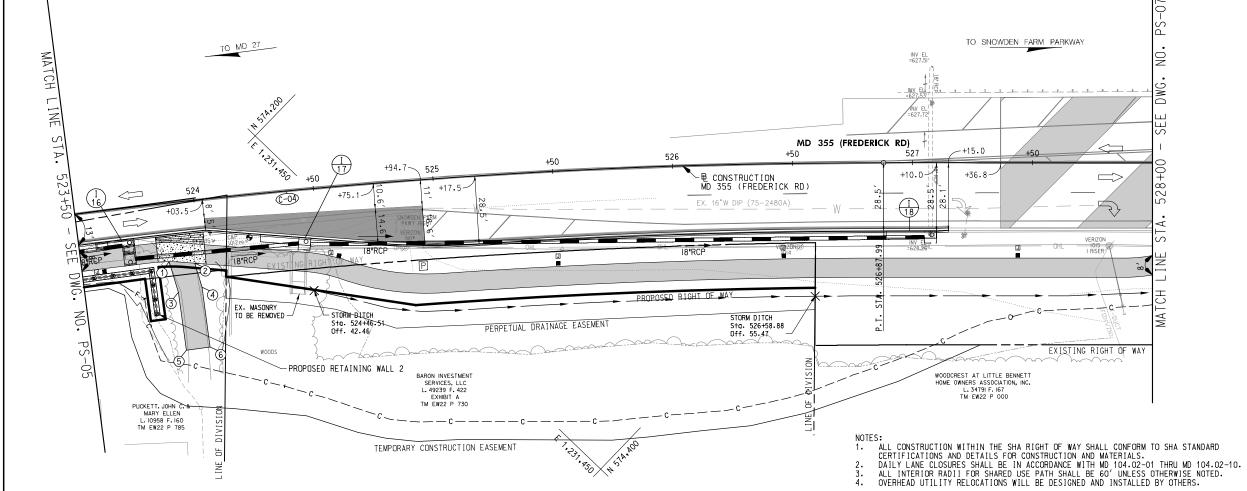
MD 355 (FREDERICK ROAD) - STA. 523+82 TO STA. 524+02, RT.

REMOVAL OF EXISTING MASONRY

MD 355 (FREDERICK ROAD) - STA. 524+09 TO STA. 524+55, RT. (STONE WALL AND STEPS)

RELOCATE MAILBOX

MD 355 (FREDERICK ROAD) - STA, 524+03, RT,



SYMBOLS

SECTION MANHOLE

— SPLIT RAIL FENCE <u>LEGEND</u> SHARED USE PATH TRAFFIC BARRIER CLARKSBURG HISTORIC DISTRICT BOUNDARY PERMEABLE PAVEMENT · — C — · TOP OF CUT FULL DEPTH PAVEMENT PEDESTRIAN LIGHT POLE AND JUNCTION BOX GRINDING & ASPHALT RESURFACING BASE MOUNTED METERED SERVICE PEDESTAL WITH PHOTOCELL 9 9 9 9 CONCRETE DRIVEWAY WETLAND BUFFER PIPE 7 INLET 7 STORM DRAIN SYMBOLS PAVEMENT REMOVAL - WUS - WATERS OF THE US

+50

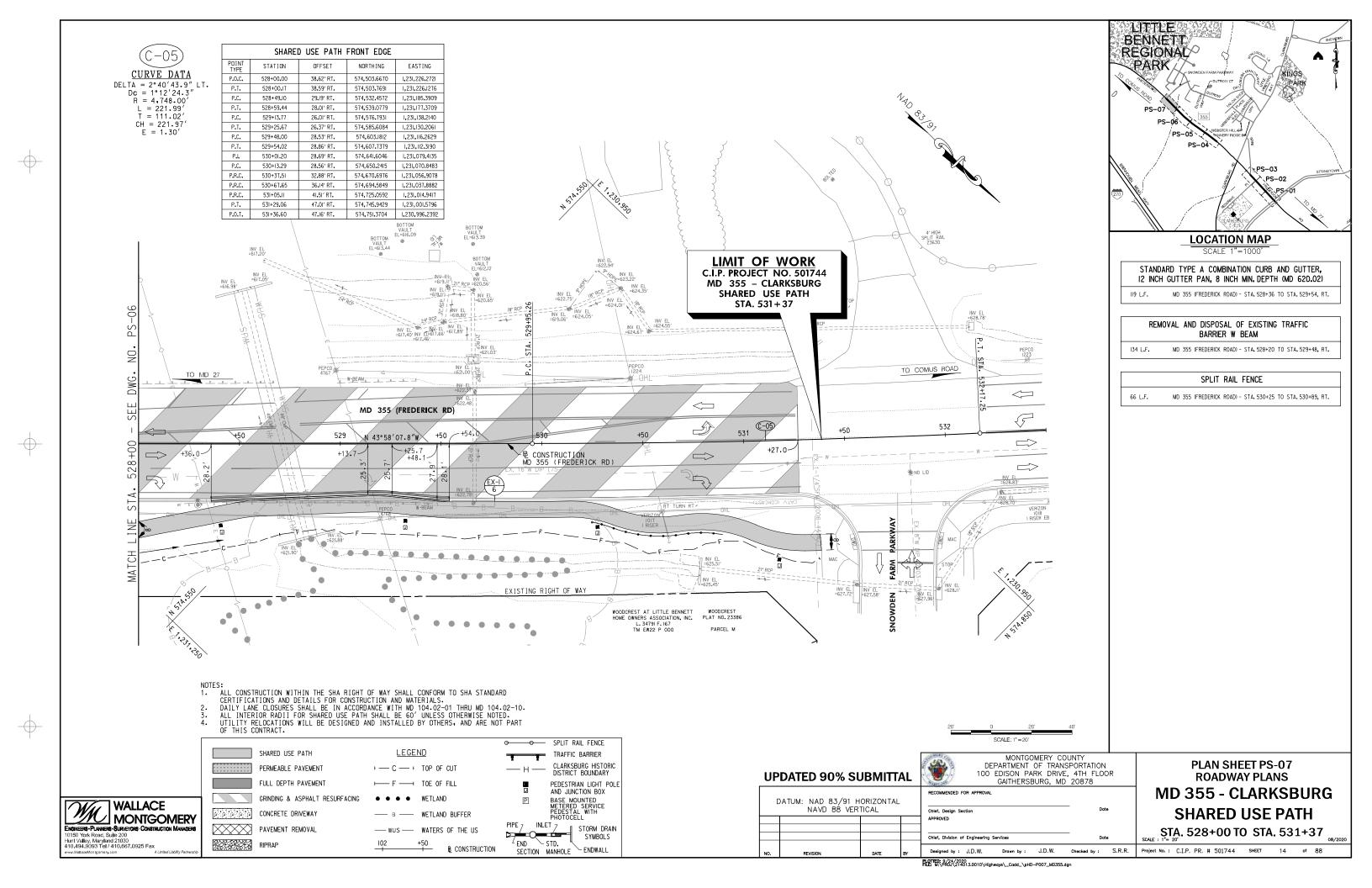
₿ CONSTRUCTION

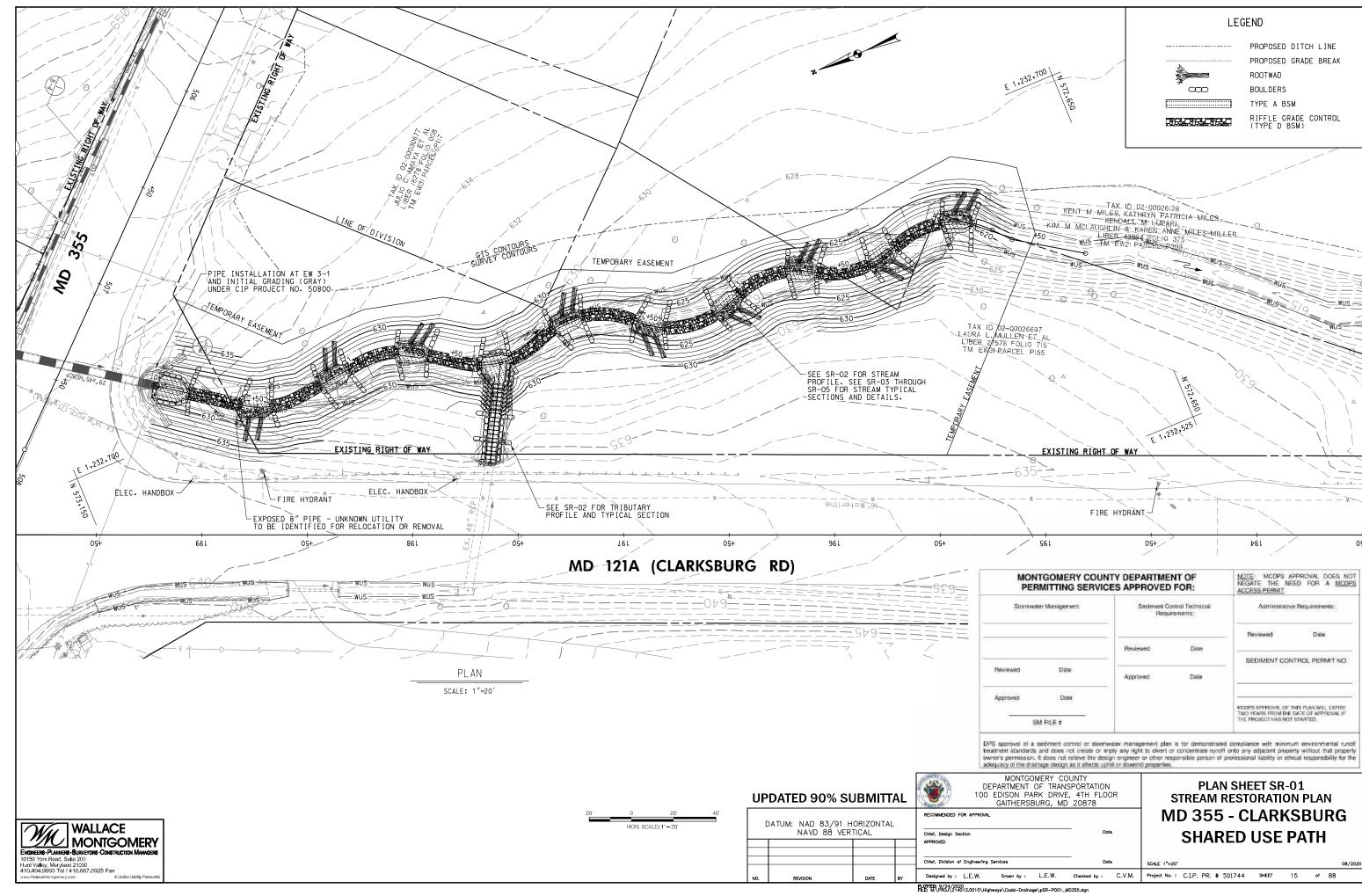
DEPARTMENT OF TRANSPORTATION
100 EDISON PARK DRIVE, 4TH FLOOR **UPDATED 90% SUBMITTAL** GAITHERSBURG, MD 20878 DATUM: NAD 83/91 HORIZONTAL NAVD 88 VERTICAL APPROVED Checked by : S.R.R. J.D.W.

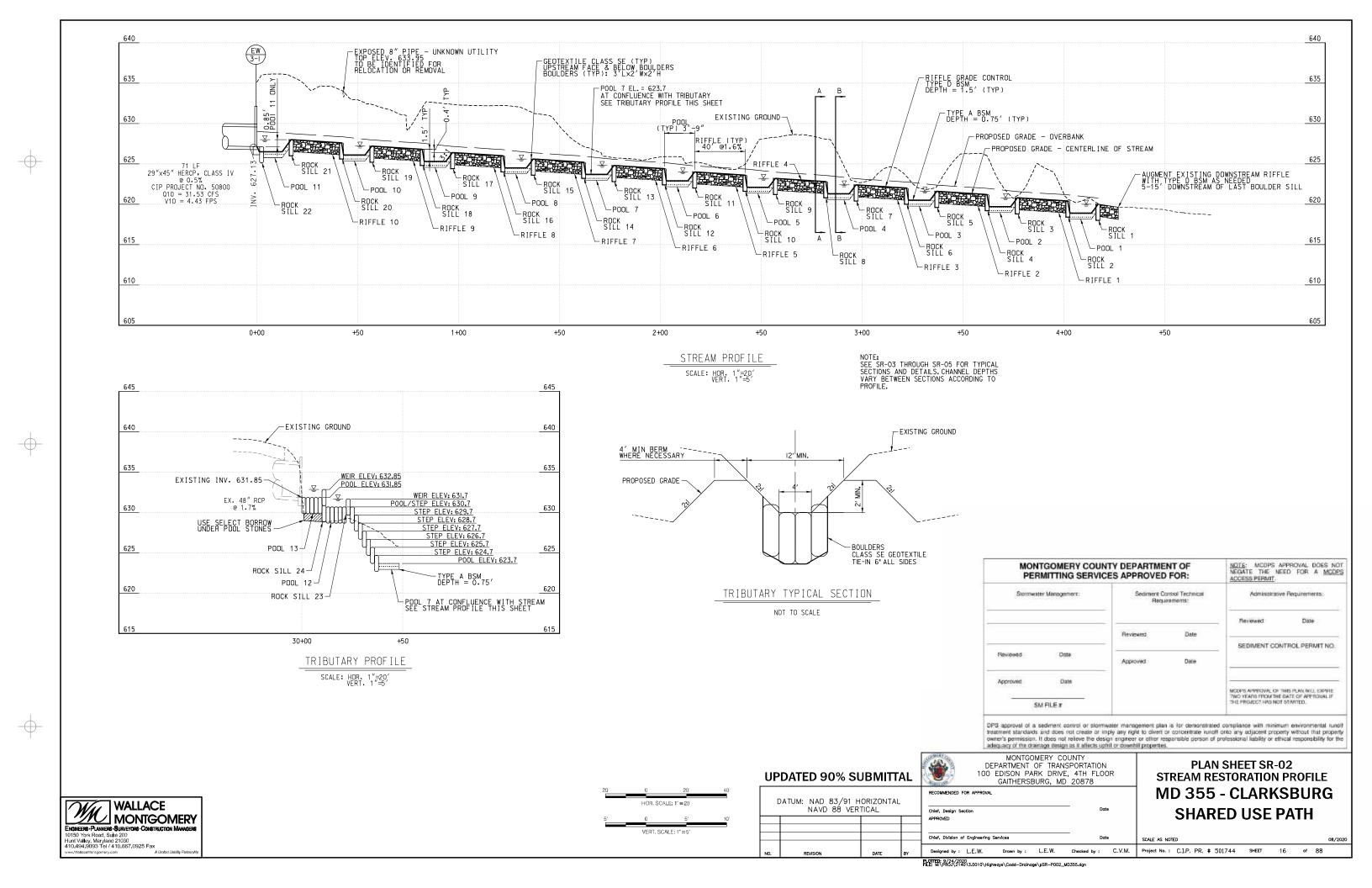
PLAN SHEET PS-06 ROADWAY PLANS MD 355 - CLARKSBURG **SHARED USE PATH** STA. 523+50 TO STA. 528+00 $_{08/2020}$

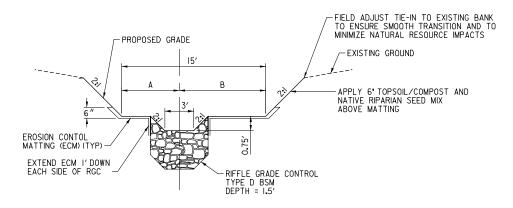
Project No.: C.I.P. PR. # 501744 SHEET 13 of 88

PLOTTED: 9/24/2020 FILE: W:\PROJ\214013.0010\Highways_Cadd_\pHD-P006_MD355.dgn









OVERBANK STAKEOUT TABLE

STATION	Α	В
0+00	9'	6′
0+70	6′	9′
1+35	9'	6′
1+90	6′	9′
2+40	9'	6′
2+90	6′	9′
3+35	9'	6′
3+70	6'	9'

NATIVE RIPARIAN SEED MIX

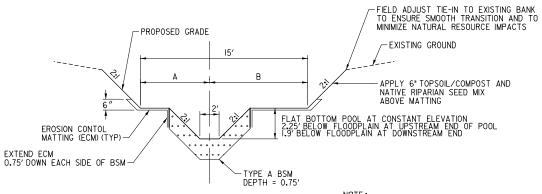
PERCENT	COMMON NAME	SCIENTIFIC NAME
25%	VIRGINIA WILD RYE	Elymus virginicus
10%	ANNUAL RYE	Lollium multiflorum
20%	RIVERBANK WILD RYE	Elymus riparius
15%	RED FESCUE	Festuca rubra L
10%	DEERTONGUE	Dischanthelium clandestinum
20%	BOTTLEBRUSH	Elymus hystrix

A-A RIFFLE TYPICAL SECTION NOT TO SCALE

B-B POOL TYPICAL SECTION NOT TO SCALE

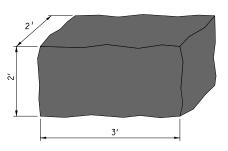
WALLACE MONTGOMERY

Engineers-Planners-Surverors-Construction & 10150 York Road, Suite 200 Hunt Valley, Maryland 21030 410.494.9093 Tel / 410.667.0925 Fax

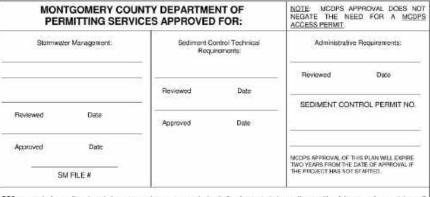


NOTE:

ADD ROOTWADS TO POOL AS SHOWN ON PLANS. PLACE ROOTWADS ON THE SIDE OF POOL WITH 3' FLOODPLAIN



TYPICAL BOULDER NOT TO SCALE



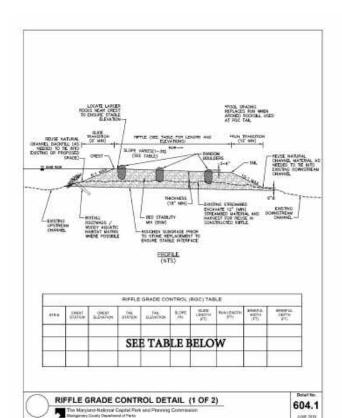
DPS approval of a sediment control or stormwater management plan is for demonstrated compliance with minimum environmental runoff presiment standards and does not create or imply any right to divert or concentrate runoff onto any adjacent property without that property owner's permission. It does not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

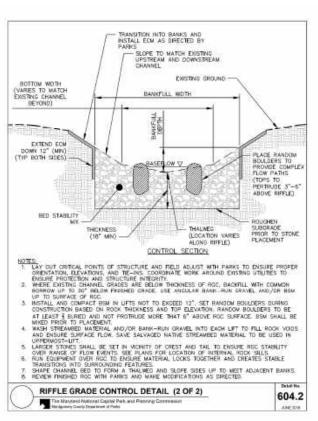
UPDATED 90% SUBMITTAL

RECOMMENDED FOR APPROVAL DATUM: NAD 83/91 HORIZONTAL NAVD 88 VERTICAL Chief, Design Section Chief, Division of Engineering Services Designed by : I.F.W.

MONTGOMERY COUNTY DEPARTMENT OF TRANSPORTATION 100 EDISON PARK DRIVE, 4TH FLOOR GAITHERSBURG, MD 20878	PLAN SHEET SR-03 STREAM RESTORATION TYP. SECTIONS
PPROVAL	MD 355 - CLARKSBURG
Date	SHARED USE PATH

SCALE N.T.S. 08/2020 Drown by : L.E.W. Checked by : C.V.M. Project No. : C.I.P. PR, # 501744 SHEET 17 of 88





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PROFILE VIEW (NTS)	
NOTES 1. ALL DIMENSIONS AND ELEVATIONS TO BE FILE ADJUSTED TO ENSURE STABLE HISTIN, LATING 2. SECUR SHALL BE INNECATED WITH RECTANDRIAN BLOCK SHAPE.	FIGHT MASSACE, AND THE RETTO BANKS.
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ROCK SILL DETAIL (2 OF 2)	Detail No.
The Maryland National Capital Park and Planning Commission	603.2

				RIFFL	E GRA	ADE CONTROL T	ABLE		
STR #	CREST STA.	CREST ELEV.	TAIL STA.	TAIL ELEV.	SLOPE %	GLIDE LENGTH	RUN LENGTH	BANKFULL WIDTH	BANKFULL DEPTH
RIFFLE 10	0+17.0	628.0	0+42.0	627.6	1.6	N/A - ROCK SILL 21	N/A - ROCK SILL 20	6′	0.75′
RIFFLE 9	0+57.0	627.2	0+82.0	626.8	1.6	N/A - ROCK SILL 19	N/A - ROCK SILL 18	6′	0.75′
RIFFLE 8	0+97.0	626.4	1+22.0	626.0	1.6	N/A - ROCK SILL 17	N/A - ROCK SILL 16	6′	0.75′
RIFFLE 7	1+37.0	625.6	1+62.0	625.2	1.6	N/A - ROCK SILL 15	N/A - ROCK SILL 14	6′	0.75'
RIFFLE 6	1+77.0	624.8	2+02.0	624.4	1.6	N/A - ROCK SILL 13	N/A - ROCK SILL 12	6′	0.75'
RIFFLE 5	2+17.0	624.0	2+42.0	623.6	1.6	N/A - ROCK SILL II	N/A - ROCK SILL IO	6′	0.75′
RIFFLE 4	2+57.0	623.2	2+82.0	622.8	1.6	N/A - ROCK SILL 9	N/A - ROCK SILL 8	6′	0.75′
RIFFLE 3	2+97.0	622.4	3+22.0	622.0	1.6	N/A - ROCK SILL 7	N/A - ROCK SILL 6	6′	0.75′
RIFFLE 2	3+37.0	621.6	3+62.0	621.2	1.6	N/A - ROCK SILL 5	N/A - ROCK SILL 4	6′	0.75'
RIFFLE I	3+77.0	620.8	4+02.0	620.4	1.6	N/A - ROCK SILL 3	N/A - ROCK SILL 2	6′	0.75'

Montgomery Parks Bed Stability Mix (BSM) Tables

Pergees: Bod Statisty Mbc (35M) to a miction of cands, gravely, coables, and code that are installed within stream changes to stability across of high street, provide channel diskings, will coase long-term statisty, with a first popular in taking, and if the popular installed and of the popular installed and the provide than a first popular. A this principle was represented to the type for a principle representation by the diskings and statistical statistical representations.

DOT Black on SHIELD	
	10%
Woodehan	20%
A2 Stens	10%
Surge Stone	10%
Total	1.00%

Motertal Size:	Percentage of ESM
DESCRIPTION DESCRIPTION	30%
Class 0	30%
Clear	30%
Class II	40%

Surge Stone	10%
Tortal	1.00%

Material Size:	Percentage of BSM	THE STREET STREET, STREET,
896/Native 5855	40%	
Woodchaps	10%	
Varge Stone	20%	
Chrs.0	30%	1

Material Site:	Percentage of Ridd
ING/Native SIM	40%
Surge Store	10%
Class 0	10%
Cassi	30%

- Teste: 10%

 Notes:

 1. Marine Scream Bed Maserial (SMO) denials be horsested groun to channel goaling for relies, expecially an apper 12° of 65M.

 2. Mil American and consist of clean particles interested as no expression, arguint, store dust, exc.;

 3. Materials have been denied place to be before any placement, included in 12° (may 15°), and would not be processed without 6.0 million, and would not be processed without 6.0 million and occasion in 12° (may 15°), and would not be processed without 6.0 million and occasion for the best-leve conditions.

 5. Placed 65M his shade by exempting the clean for information that no control standard denies that occasion for the standard or exempting the conditions.

 6. Placed 65M wheated by exempting the condition of the standard or exempting the processed with conditions of the standard or exempting the standard or exemptin

ROCK SILL TABLE									
STR	STA.	POINT "X"	Α	В	Х	Υ			
#	STA.	C/L OFFSET	ARCH HEIGHT	BANKFULL	ELEV.	ELEV.			
ROCK SILL 22	0+02.3	0'	1'	15′	630.5	631.25			
ROCK SILL 21	0+17.0	0'	1'	15′	628.0	628.75			
ROCK SILL 20	0+42.0	0'	1'	15′	627.6	628.35			
ROCK SILL 19	0+57.0	0'	1'	15'	627.2	627.95			
ROCK SILL 18	0+82.0	0'	1'	15'	626.8	627.55			
ROCK SILL 17	0+97.0	0'	1'	15'	626.4	627.15			
ROCK SILL 16	1+22.0	0'	1'	15′	626.0	626.75			
ROCK SILL 15	1+37.0	0'	1'	15′	625.6	626.35			
ROCK SILL 14	1+62.0	0'	1'	15'	625.2	625.95			
ROCK SILL 13	1+77.0	0′	1'	15′	624.8	625.55			
ROCK SILL 12	2+02.0	0'	1'	15'	624.4	625.15			
ROCK SILL II	2+17.0	0'	1'	15′	624.0	624.75			
ROCK SILL IO	2+42.0	0'	1'	15′	623.6	624.35			
ROCK SILL 9	2+57.0	0'	1'	15'	623.2	623.95			
ROCK SILL 8	2+82.0	0'	1'	15'	622.8	623,55			
ROCK SILL 7	2+97.0	0'	1'	15'	622.4	623,15			
ROCK SILL 6	3+22.0	0'	1'	15'	622.0	622.75			
ROCK SILL 5	3+37.0	0'	1'	15′	621.6	622.35			
ROCK SILL 4	3+62.0	0'	1'	15'	621.2	621.95			
ROCK SILL 3	3+77.0	0'	1'	15'	620.8	621.55			
ROCK SILL 2	4+02.0	0'	1'	15'	620.4	621.15			
ROCK SILL I	4+17.0	0'	1'	15'	620.0	620.75			
ROCK SILL 24	30+11.0	0'	0'	12'	632.82	633.85			
ROCK SILL 23	30+23.0	0'	0'	12'	631.7	632.7			

70.000		INTY DEPARTME		NOTE: MCDPS APPROVAL DOES NEGATE THE NEED FOR A M ACCESS PERMIT.			
Stamwater Maragement:			Sediment Control Technical Requirements:		e Requirements:		
				Reviewed	Date		
		Reviewed —	Date	SEDIMENT CON	TROL PERMIT NO.		
Reviewed	Date	Approved	Date				
Approved	Date			MCDPS APPROVAL OF T	HIS PLAN WILL EXPIRE		
SM FILE#				TWO YEARS FROM THE THE PROJECT HAS NOT	DATE OF APPROVAL IF		

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

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UPDATED 90% SUBMITTAL	

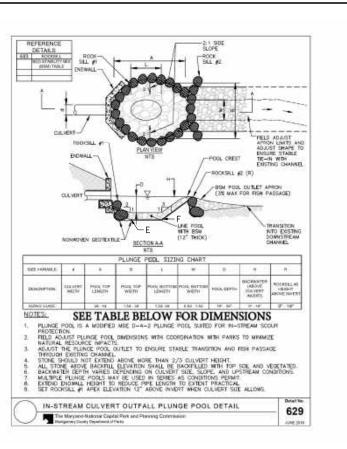


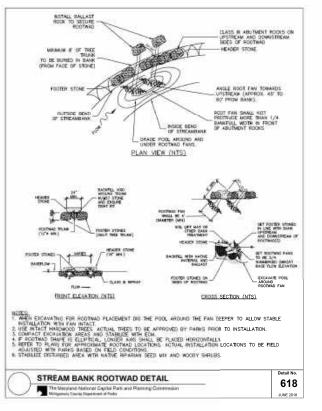
MONTGOMERY COUNTY DEPARTMENT OF TRANSPORTATION 100 EDISON PARK DRIVE, 4TH FLOOR GAITHERSBURG, MD 20878	PLAN SHEET SR-04 STREAM RESTORATION DETAILS
PPROVAL	MD 355 - CLARKSBURG
Date	SHARED USE PATH

SCALE N.T.S. 08/2020 Designed by: L.E.W. Drown by: L.E.W. Checked by: C.V.M. Project No.: C.I.P. PR, # 501744 SHET 18 of 88



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Montgomery Parks Construction Notes for Stream Restoration on Parkland

- A pre-construction maeting with the M-NCPPC (Parks) Construction Impactor, Urban Forester, Pair, Mariager, Engineer, Contractor, and applicant's Stream Residention Professional SRP) shall stock to extrave Aul understanding of the princip spair, design inner, and field conditions at the time of construction. (The applicant is responsible for coordination with MISE and other regulatory agencies as required by permits.) Contact lay Childs, Pairk Construction Manager, at 301-085-3574 to otherwise this meeting.
- Contractor shall be familiar with and implement MDE Waterway Construction Guidelines and MDE Best Management Practices for Working in Novitial Wetlands, Wetlands Buffers, Waterways, and 100-Year Floodylain throughout construction. All inchannel construction shall secur "in the dry" with appropriate gump-around practices.
- 3. The applicant shall arrigage a SRP, an individual familiar with sceam restoration environment, design heatures and warenew positivection techniques, to oversee in-stream contruction activities to ensure stable charmed contruction, including appropriate field objectivenests and natural resources protection. The applicant shall empower this person to direct Contractor's work as receded to essure design intent is achieved. The person shall controlled and all applications and accordance of structures with Parks as contructure progression.
- 4. Parks, in coordination with the SRP and contractor, may require minor adjustments to the layout/elevation of a-chean structures, its ambank stabilization, and grading during construction to minimal edistrationate to three/thee roots and to ensure functionality of completed construction. Note that the contractor shall take care to protect trunks/note designated to remain throughout construction.
- 5. Contractor shall keyout critical design points (contentine station, offsets, alevations, structures, etc.) along the stream charinel for review prior to structure installation. APP shall coordinate with Parks to adjust/confir statement to existin charinel statisticity and protein shall construct contractor shall be responsible for maintaining statement stating construction until final acceptance by Parks. Conductor shall maintain lacer level equipment deside to check grades as construction preparation.
- 6. Construction of extreme resements, including grade counter, base sub-liseason and habitar structures, shall be inspected by SRP 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 analysis of Excompation of completed structure is passing stability.
- construction equipment for compaction of completed structures to ensure stability.

 7. Access routes and staging areas shall be field adjusted with Parks to minimize impacts to natural resources. Equipment restrictions (e.g., < 80 sloaded ground pressure) may be required by Parks in sensitive areas. Access routes will be limited to 12' width, unless otherwise approved by Parks.
- Contractor shall coordinate all tree protection measures and tree removals with Parks prior to
 construction. Protection measures, such as hardwood mats, tree planking, root aeration
 matting, equipment restrictions, mulch roads, tree protection fending, etc. must be installed
 before equipment enters root areas.

Revised 06.01.18

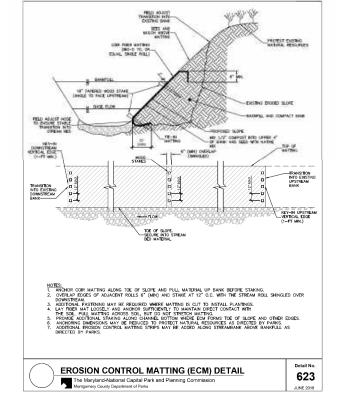
- Contractor shall coordinate with Sediment Control Inspector and Parks to utilize trenchines
 sediment controls but, compost socks, trenchines all fisnoss, etc.] and/or daily stabilization to
 secial cutting through mature their cost systems. Where trenching is required, cost group prior
 to excussion at the direction of Parks.
- 10. Tree trunk/not systems to remain that not be stamaged during placement of riprap, vegetated rock packs, riffle grade controls, rock sits, and other reventments. Exact extent/orientation of stone placement shall be educated in the field, and sock completed in a manner that minimizes impacts to servestrol and equitic natural resources.
- Contractor is reasonable 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.
- 1.1. In-stream areas where pump-around is removed at the end of the workey must be compared and stabilized daily. Disturbed areas above baseflow shall receive send must at the end at 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 ensure non-recisive conditions before vacating the site.
- Contractor is responsible for ensuring smooth transitions at upstream and downstream and downstream and downstream and downstream.
- 14. Upon completion of in-stream revetments and channel grading, the see to be rewrited by an directed by the SRP and Parks.
- All exposed stone (including stone toe, imbricated rock walls, rock packs, and above bankful
 depth shall be backfilled with topsoil/compost to within 2-inches of rock nurface and regelated
 with paths or packs are depth with paths.
- with native riparian seed and mulched.

 1. Voids should not be left in any completed in-stream structures. Structures mould be completed with BSM and/or stream bed mix to fill all voids. Constructed riffles and other grade control.
- revetments will not be accepted by Parks until surficial baseflow is unablaned.

 1. Applicant is responsible for completing fish rescues associated with all purposerums. Fish rescue teams should consist for properly training personnel, based on Maryama Barbage at Sovern Survey (MBSS) standards. A list of personnel certified in MBSS protocols can be found at http://www.dnr.maryland.gov/steams/MBSSRegistry.asp. Fish rescues require three (3) working days advanced notice to Parks.
- 18. 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
- 19. 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 lmits, or otherwise create fish passage restrictions at baseflow, as directed by SRP and Parks.

Revised 06.01.18

PLUNGE POOL TABLE									
STR #	E STA.	F STA.	POOL ELEV.	POOL BOTTOM LENGTH	POOL BOTTOM WIDTH	POOL DEPTH	BACKWATER ABOVE CULVERT		
POOL II	0+03.3	0+12.5	626.5	11.2'	2'	1.5′	0.87'		
POOL IO	0+43.0	0+53.7	626.1	10.7′	2'	1.1'	N/A		
P00L 9	0+83.0	0+93.7	625.3	10.7′	2'	1.1'	N/A		
P00L 8	1+23.0	1+33.7	624.5	10.7′	2'	1.1'	N/A		
P00L 7	1+63.0	1+73.7	623.7	10.7′	2'	1.1'	N/A		
P00L 6	2+03.0	2+13.7	622.9	10.7′	2'	1.1'	N/A		
P00L 5	2+43.0	2+53.7	622.1	10.7′	2'	1.1'	N/A		
P00L 4	2+83.0	2+93.7	621.3	10.7′	2'	1.1'	N/A		
P00L 3	3+23.0	3+33.7	620.5	10.7′	2'	1.1'	N/A		
P00L 2	3+63.0	3+73.7	619.7	10.7′	2'	1.1'	N/A		
POOL I	4+03.0	4+13.7	618.9	10.7′	2'	1.1′	N/A		
P00L 13	30+00	30+10.0	631.85	10.0	4'	1.0′	1.0		
P00L 12	30+12.0	30+22.0	630.7	10.0	4'	1.0′	N/A		



MONTGOMERY CO PERMITTING SER			NOTE: MCDPS APPROVAL DOES N NEGATE THE NEED FOR A MCD ACCESS PERMIT. Administrative Requirements:		
Stamwater Management:		antrol Technical Jeamants:			
			Fleviewed	Date	
	Reviewed	Date	and the second second second second	onesan en clear rajeneare.	
Reviewed Date			SEDIMENT CON	ITROL PERMIT NO.	
195 (B) (B) (C) (C) (B) (C) (C) (B) (C) (C) (C) (C) (C) (C) (C) (C) (C) (C	Approved	Date			
Approved Date			-		
12002000			TWO YEARS FROM THE THE PROJECT HAS NOT	DATE OF APPROVAL IF	
SM FILE#			THE PROJECT HAS NOT	STAPIEU.	

DPS approval of a sediment control or stormwater management plan is for demonstrated compliance with minimum environmental nuncil treatment standards and does not create or imply any right to diven or concentrate nuncil most any adjacent property dwirer's permission. It does not releave the design engineer or other responsible person of professional liability or ethical responsibility for the adequacy of the chainage design as it affects upfull or downthill properties.

MONTGOMERY COUNTY
DEPARTMENT OF TRANSPORTATION

PLAN SHEET SR-05

I //// INO	LACE NTGOMERY
Engineers · Planners · Surveyor 10150 York Road, Suite 200	RS-CONSTRUCTION MANAGERS
Hunt Valley, Maryland 21030 410.494.9093 Tel / 410.667.0	103E Env

UP	DATED 90% SU	JBMITT	AL		100 EDIS GAIT
	DATUM: NAD 83/91 H NAVD 88 VER	RECOMMENDED FO			
				APPROVED	
NO.	REVISION	DATE	BY	Chief, Division of Designed by :	L.E.W. Draw

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

| Date | SCALE N.T.S. | D8/202 | Checked by : C.V.M. | Project No. : C.I.P. PR. # 501744 | SHEET | 19 of 88

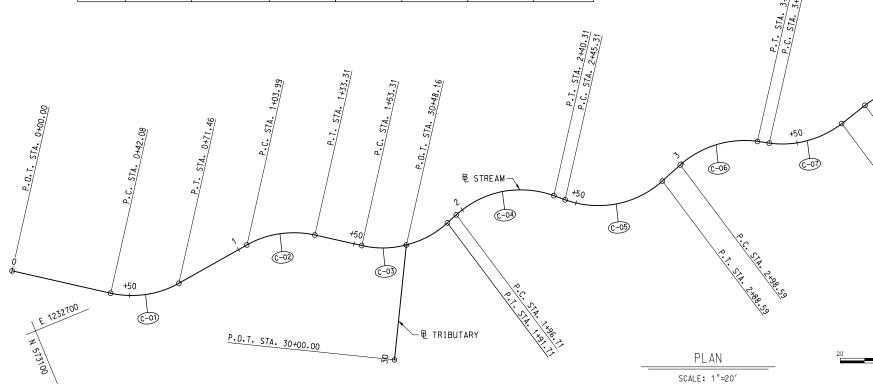
Drawn by : L.E.W.

100 EDISON PARK DRIVE, 4TH FLOOR

GAITHERSBURG, MD 20878



CURVE DATA – STREAM									
CURVE	RADIUS	DELTA	Dc	LENGTH	TANGENT	CHORD	EXTERNAL		
C-0I	40.00′	42°04′27.23" LT.	143°14′22.02"	29.37′	15.38′	28.72′	2.86′		
C-02	40.00′	42°00′01.36" RT.	143°14′22.02"	29.32′	15,35′	28.67′	2.85′		
C-03	40.00′	55°00′II.69" LT.	143°14′22.02"	38.40′	20.82'	36.94′	5.10'		
C-04	40.00′	62°27′00.87" RT.	143°14′22.02"	43.60′	24.25′	41.47′	6.78′		
C-05	40.00′	61°59′36.69' LT.	143°14′22.02"	43.28′	24.03'	41.20′	6.66′		
C-06	40.00′	49° 46′12.57' RT.	143°14′22.02"	34.75′	18,55′	33.66′	4.09′		
C-07	40.00′	46°00′23.16" LT.	143°14′22.02"	32.12'	16.98′	31.26′	3.46′		
C-08	40.00′	63° 40′58,02" RT.	143°14′22.02"	44.46′	24,84′	42,21'	7.09′		



	P. I. STA. 3433.33 P. C. STA. 3433.33	P. J. STA. 4427.19 P. J. STA. 4437.46	442.99
	15 to	C-08 +50	
-05)		S. T. S. T. S. T.	
_	PLAN SCALE: 1"=20'	0 20' 40' HOR, SCALE: 1" = 20'	E 123/
	§ OF CONSTRUCTION TRIB	UTARY	

₽ OF CONSTRUCTION STREAM									
POINT	STATION	COOR	DINATES	BEARING					
DESCR.	STATION	NORTH	EAST	BEARING					
P.O.B.	0+00,00	573,099.5030	1,232,726.8023						
P.C	0+42.08	573,065,1107	1,232,702,5517	S 35° II′I7.76" W					
P.I.	0+57,47	573,052.5376	1,232,693.6862						
P.T.	0+71.46	573,037,2643	1,232,695.5307	S 06°53′09.47" E					
P.C	1+03.99	573,004.9690	1,232,699.4309	2 06-22:03-41" E					
P.I.	1+19.34	572,989.7250	1,232,701.2718						
P.T.	I+33 . 3I	572,977.1648	1,232,692,4396	C 75906/5100HW					
P.C	1+53,31	572,960,8047	1,232,680.9354	S 35°06′51.90"W					
P.I.	1+74.13	572,943,7704	1,232,668.9571						
P.T.	1+91.71	572,924,1884	1,232,676.0414	S 19°53′19.79″E					
P.C	1+96.71	572,919.4866	1,232,677.7424	2 19 23 13 13 E					
P.I.	2+20.96	572,896,6841	1,232,685,9917						
P.T.	2+40.31	572,878,8236	1,232,669.5903	S 42°33′41.08" W					
P.C	2+45.31	572,875,1408	1,232,666.2084	3 42 33 41.08 W					
P.I.	2+69,34	572,857.4404	1,232,649,9541						
P.T.	2+88.59	572,834.7780	1,232,657.9491	S 19° 25′55.60" E					
P.C	2+98.59	572,825,3476	1,232,661.2760	2 19 52 22.60 E					
P.I.	3+17.14	572,807.8499	1,232,667.4489						
P.T.	3+33,33	572,791.8360	1,232,658.0769	C 709 20/IC 071 W					
P.C	3+38.33	572,787.5207	1,232,655.5514	S 30°20′16.97"W					
P.I.	3+55,31	572,772.8645	1,232,646,9740						
P.T.	3+70.45	572,756.5139	1,232,651.5602	S 150 40/05 101 5					
P.C	3+82.73	572,744.6858	1,232,654.8779	S 15° 40′06.19" E					
P.I.	4+07.58	572,720.7678	1,232,661.5867						
P.T.	4+27,19	572,704.1506	1,232,643,1220	S 48°00′51.83" W					
P.I.	4+37.46	572,697.2803	1,232,635.4880						
P.O.T.	4+72.99	572,667.5362	1,232,616.0664	S 33°08′34.07" W					

POINT	STATION	COOR	DINATES	BEARING	
DESCR.	STATION	NORTH	EAST		
P.O.T.	30+00.00	572,966.4217	1,232,631.6960	S 61° 37′46.28" E	
P.O.T.	30+48.16	572,943.5385	1,232,674.0699		

1,000,000,000	MITTING SERV		ED FOR A MCDPS			
Stormwas	Stormweer Management		Sediment Control Technical Requirements:		Administrative Requirements:	
				Reviewed	Date	
		Reviewed	Date		ALCONO DE AUCTOUR.	
Reviewed	Date	***************************************	- CHARLES	_ SEDIMENT CON	ITROL PERMIT NO.	
0.10100000000		Approved	Date	=	-	
Approved	Date			MODES APPSIONAL OF		
S	√ FILE #			TWO YEARS FROM THE THE PROJECT HAS NOT		
		-				

E 1232700 \ Z 57.7888

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 cover'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 uptill or downfull properties.

UPDATED 90% SUBMITTAL

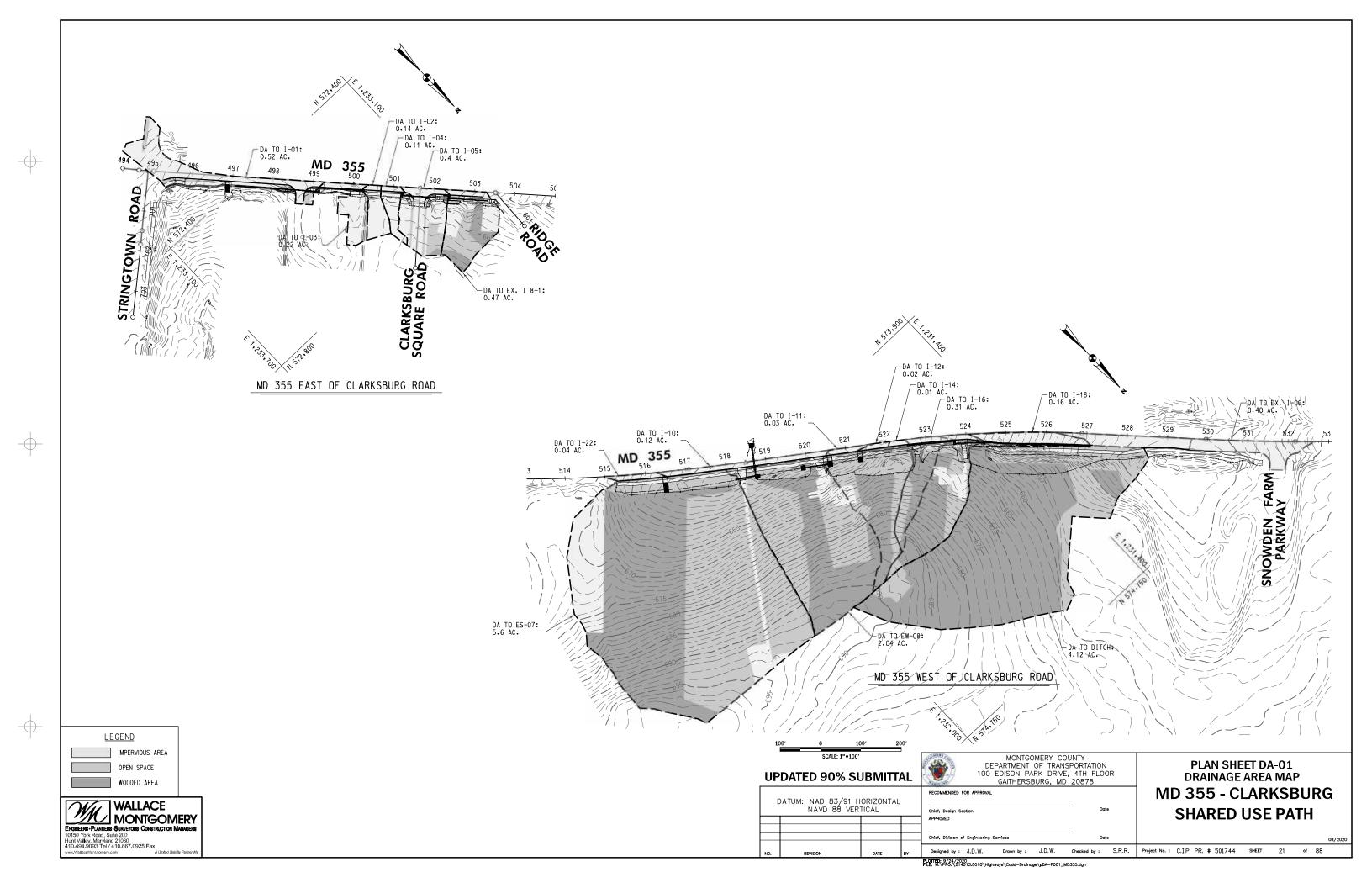
MONTGOMERY COUNTY
DEPARTMENT OF TRANSPORTATION
100 EDISON PARK DRIVE, 4TH FLOOR
GAITHERSBURG, MD 20878 DATUM: NAD 83/91 HORIZONTAL NAVD 88 VERTICAL Drawn by : L.E.W. Checked by : C.V.M. Designed by : L.E.W.

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

SCALE 1"= 20' Project No. : C,I,P, PR, # 501744 SHEET 20 of 88

WALLACE MONTGOMERY
ENGRESS-PLANIERS SURVIVORS CONSTRUCTION MANAGERS
10150 York Road, Suite 200
Hunt Valley, Maryland 21030
410.494,9093 Tel / 410.667.0925 Fax

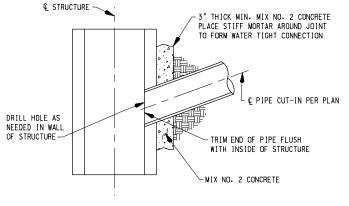
W-Viblace/Montgomery.com
A United Liability Partnership



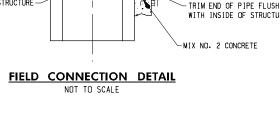
				STRUCTURE SCHEDULE				
PLAN NUMBER		ED CTATION OFF	OFFCET	OFFCFT TVDF		ATION	CTANDADD	VERTICAL
SHEET	NUMBER	STATION	OFFSET	TYPE	TOP	INV.	- STANDARD	DEPTH
PS-01	I-01	496+88.53	13.00' RT.	10' COG OPENING	657.27	N/A	MD 374.68	N/A
PS-02	I-02	500+25.07	13.00' RT.	STANDARD 10' COG INLET	662.79	656.62	MD 374.51	0.00
PS-02	I-03	499+15.20	13.00' RT.	STANDARD 15' COG INLET	660.41	654.10	MD 374.51	0.14
PS-02	I-04	501+20.27	13.00' RT.	MODIFIED 10' COG INLET *	663.40	657.40	SEE SHEET DD-02	0.00
PS-03	I-05	502+37.34	13.00' RT.	MODIFIED 15' COG INLET *	661.55	655.55	SEE SHEET DD-02	0.00
PS-04	I-22	516+47.01	13.00' RT.	10' COG OPENING	658.10	N/A	MD 374.68	N/A
PS-04	I-10	518+69.97	13.00' RT.	MODIFIED 15' COS INLET *	653.22	647.09	SEE SHEET DD-02	0.00
PS-05	I-11	520+57.00	13.00' RT.	10' COG OPENING	655.56	N/A	MD 374.68	N/A
PS-05	I-12	521+33.00	13.00' RT.	10' COG OPENING	657.22	N/A	MD 374.68	N/A
PS-05	I-14	522+55.72	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 SHEET 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	646.03	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
PS-04	EW-08	518+68.96 518+68.96 518+75.47	36.74' RT. 43.24' RT. 36.72' RT.	STANDARD TYPE H ENDWALL FOR 24 INCH PIPE	N/A	650.36	MD 362.01	N/A
PS-02	MH-02	499+14.47	23.22' RT.	48" SQUARE STANDARD SHALLOW MANHOLE	660.49	653.92	MD 383.00	1.15

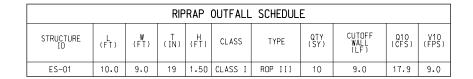
* NOTE: THE CONTRACTOR MUST SUBMIT	THE ASSOCIATED SHOP DRAWINGS (FOR RE	EVIEW AND APPROVAL) TO MR. FRANK	BROWN (FBROWN1@MDOT.MARYLAND.GOV)
OF MDOT SHA OHD-HIGHWAY HYDRAULICS	DIVISION.		

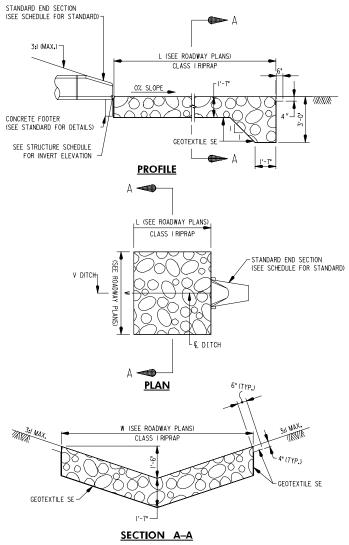
	PIPE SCHEDULE										
PLAN SHEET	STRUCTURE FROM	STRUCTURE TO	SIZE	UPSTREAM [NV.	DOWNSTREAM [NV.	TYPE	LENGTH	COMMENT			
PS-01 & 02	MH-02	EX. MH-01	18"	651.60	648.76	RCP CLASS IV	209'				
PS-02	I-02	I-03	15"	652.97	652.02	RCP CLASS IV	106′				
PS-02	I -03	MH-02	18"	651.77	651.70	RCP CLASS IV	4′				
PS-02 & 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	649.70	RCP CLASS IV	14'				
PS-04	1-10	ES-01	30"	647.09	646.03	RCP CLASS IV	47'				
PS-05	ES-13	ES-14	18"	653.75	652.75	RCP CLASS IV	44'				
PS-05 & 06	I –1 4	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′				



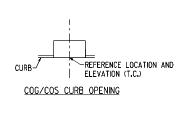


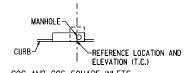




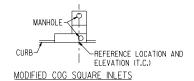


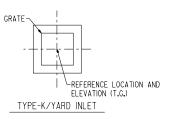
RIPRAP CHANNEL PROTECTION WITH **END SECTION**

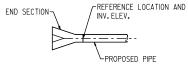




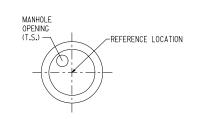
COG AND COS SQUARE INLETS



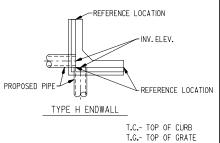




END SECTION



MANHOLES



T.S.- TOP OF STRUCTURE DRAINAGE STRUCTURE LOCATION REFERENCES

MONTGOMERY COUNTY
DEPARTMENT OF TRANSPORTATION
100 EDISON PARK DRIVE, 4TH FLOOR **UPDATED 90% SUBMITTAL** GAITHERSBURG, MD 20878 RECOMMENDED FOR APPROVAL DATUM: NAD 83/91 HORIZONTAL NAVD 88 VERTICAL

Designed by : J.D.W.

PLAN SHEET DD-01 DRAINAGE SCHEDULE & DETAILS MD 355 - CLARKSBURG **SHARED USE PATH**

SCALE : N.T.S. Project No. : C.I.P. PR. # 501744 SHEET 22 of 88

PLOTTED: 9/24/2020 FILE: M:\PROJ\214013.0010\Highways\Cadd-Drainage\pDD-S001_MD355.dgn

Drawn by : J.D.W.

S.R.R.

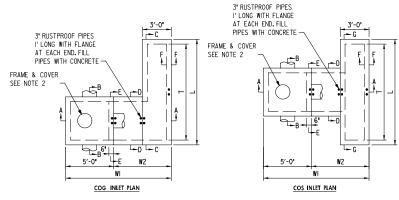
Checked by :

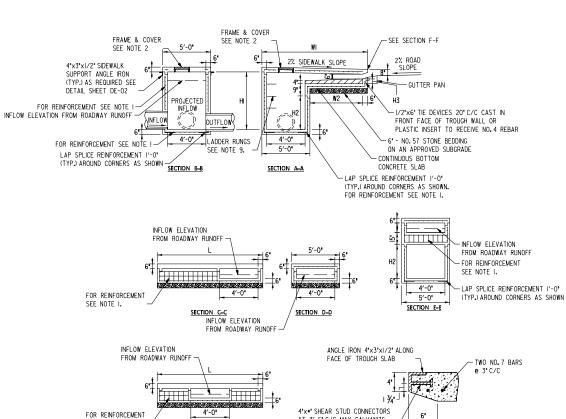
CONVEYANCE DITCH STAKEOUT										
PLAN SHEET	STATION	OFFSET	WIDTH	ELEVATION						
PS-04	515+45.58	42.73' RT.	2'	661.00						
PS-04	515+50.00	43.00' RT.	2'	660.33						
PS-04	515+75.00	43.81' RT.	2'	658.02						
PS-04	516+00.00	44.11' RT.	2'	656.86						
PS-04	516+25.00	44.70' RT.	2'	655.84						
PS-04	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'	651.00						
PS-04	518+00.00	43.47' RT.	2'	650.93						
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	38.80' RT.	2'	650.60					
PS-04 & 05	519+00.00	38.70' RT.	2'	650.74					
PS-05	519+25.00	35.38' RT.	2'	651.72					
PS-05	519+50.00	35.84' RT.	2'	652.22					
PS-05	519+75.00	35.23' RT.	2'	652.60					
PS-05	519+94.15	34.87' RT.	2'	652.75					

GRASS SWALE STAKEOUT											
PLAN SHEET	STATION	OFFSET	WIDTH	ELEVATION							
PS-05	520+50.00	34.76' RT.	2'	653.75							
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+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'	647.79					
PS-06	524+50.00	43.19' RT.	2'	647.57					
PS-06	524+75.00	51.70' RT.	2'	645.99					
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	55.04' 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	46.95' RT.	2'	628.36					



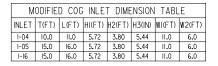


SEE NOTE I.

SECTION G-G

AT 3'-6" C/C MAX GALVANIZE

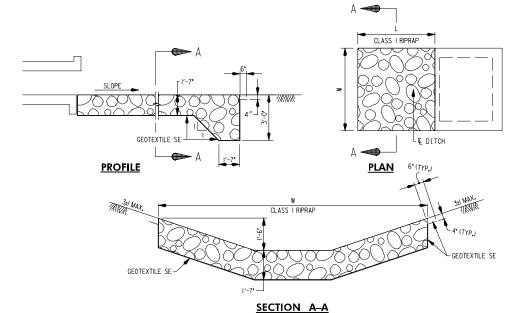
__/ <u>SECTION F-F</u> (THROUGH THE TOP SLAB ONLY)



	MODIFIE	D COS	INLE	T DIME	ENSION	TABL	.E
INLET	T(FT)	L(FT)	HI(FT)	H2(FT)	H3(IN)	WI(FT)	W2(F
1-10	15.0	16.0	5.72	3.80	5.44	11.0	6.0

<u>NOTES</u>

- 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
- 2. FOR MANHOLE FRAME AND COVER SEE MD 383.61.
- 3. CONCRETE SHALL BE MIX NO. 3.
- 4. 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.
- 7. 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
- 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.
- 9. 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.
- II. SEE STANDARD MD 374.65 FOR DEPRESSED GUTTER PAN.
- 12. 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.



RIPRAP CHANNEL PROTECTION WITH

END SECTION COG OPENING OUTFALL PROTECTION SCHEDULE QTY (SY) 010 (CFS) V10 (FPS) STRUCTURE (FT) CLASS SLOPE (IN) (FT) 3.14 I-01 11.0 19 N/A CLASS I 33% 23 N/A 2.75 I-11 13.0 11.0 19 1.02 CLASS I 25% 16 N/A 0.2 1.04 I-12 12.0 11.0 19 1.02 CLASS I 25% 18 N/A 0.1 0.91 24.0 11.0 19 1.02 CLASS I I-22 25% 30 N/A 0.2 1.19

UPDATED 90% SUBMITTAL DATUM: NAD 83/91 HORIZONTAL NAVD 88 VERTICAL

DEPARTMENT OF TRANSPORTATION

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

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

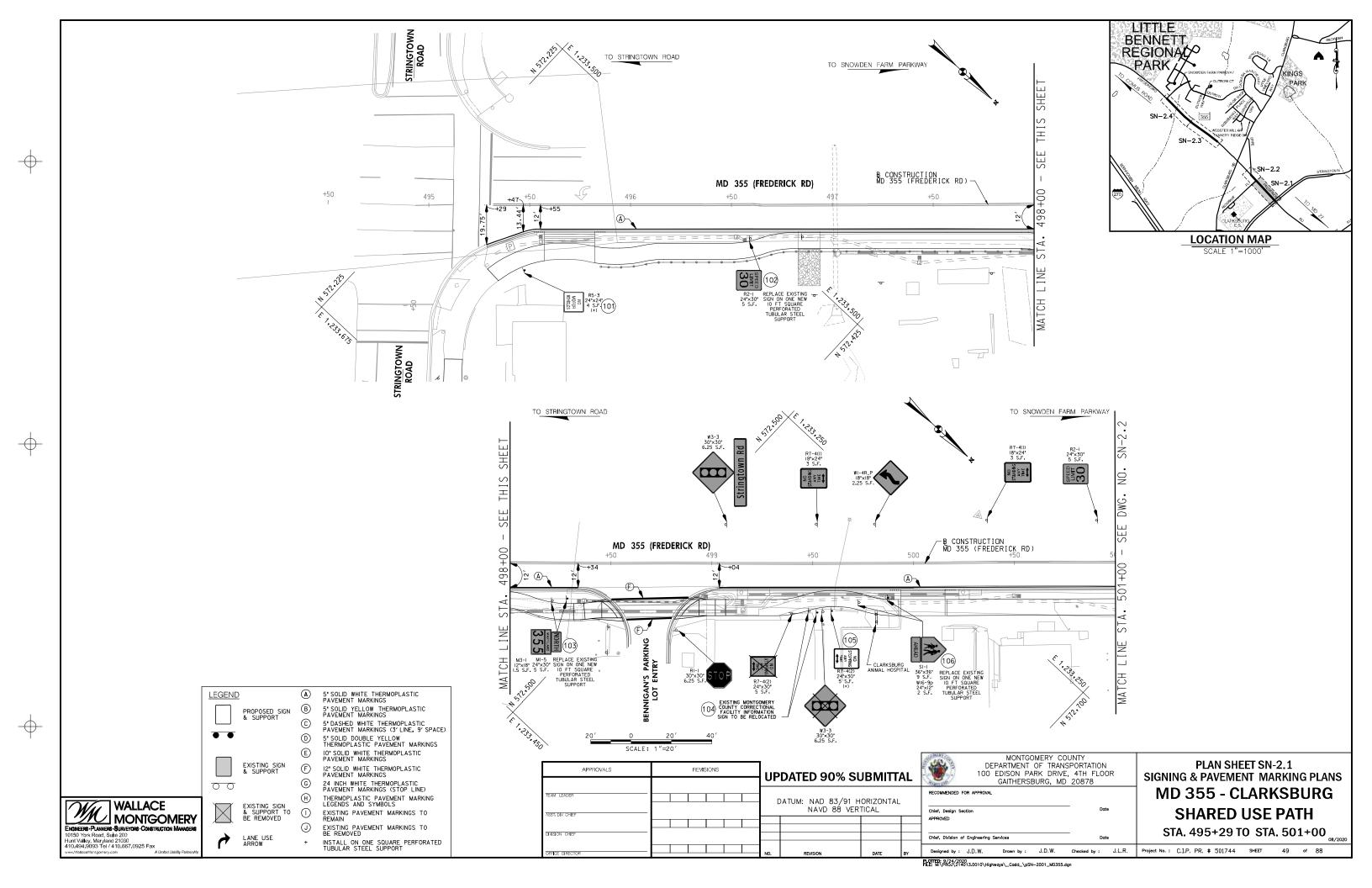
S.R.R. Project No.: C.I.P. PR, # 501744 SHEET 23 of 88

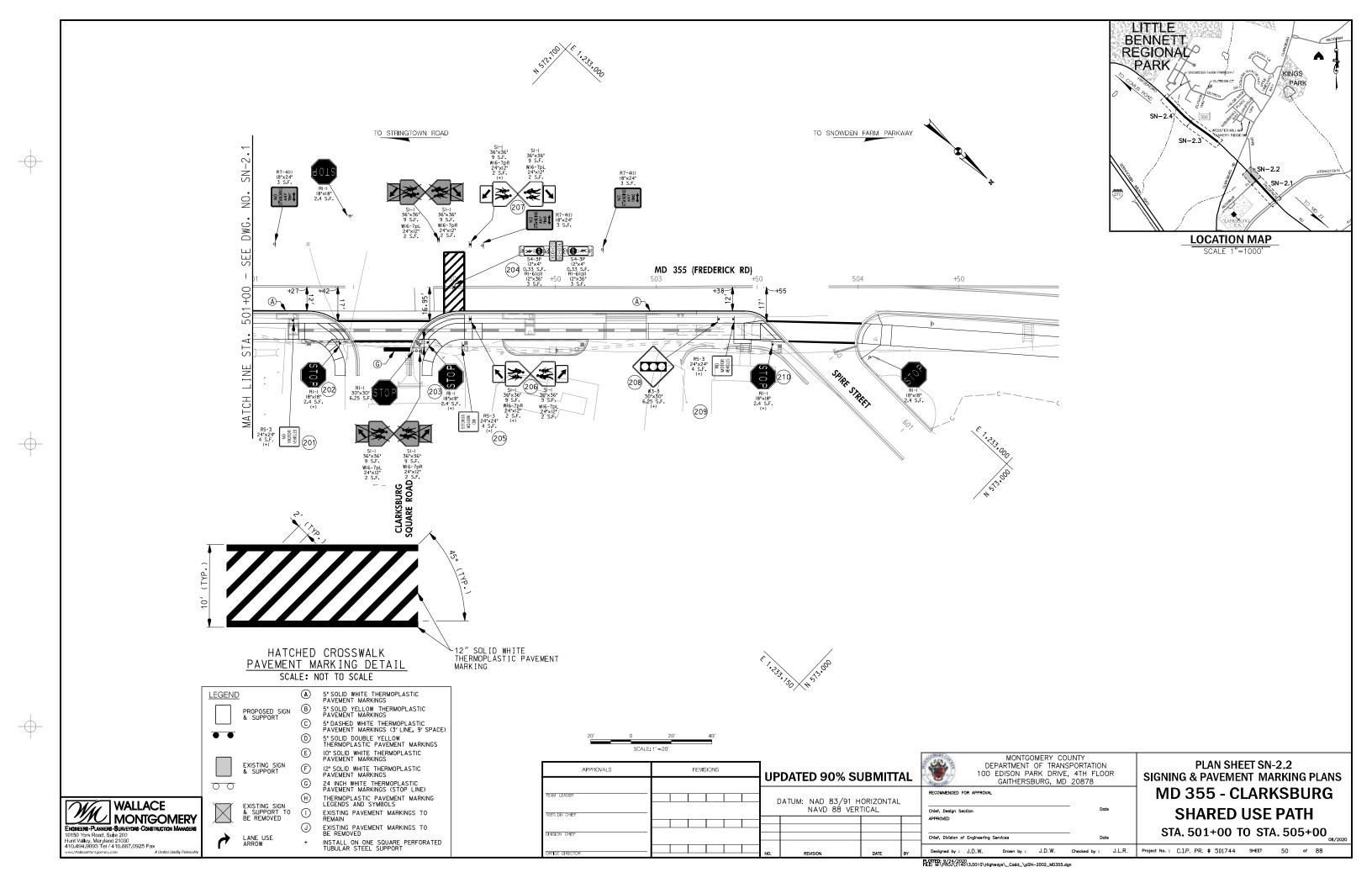
Drawn by : J.D.W. Designed by : J.D.W. Checked by : PLOTTED: 9/24/2020 FILE: M:\PROJ\214013.0010\Highways\Cadd-Drainage\pDD-S002_MD355.dgn

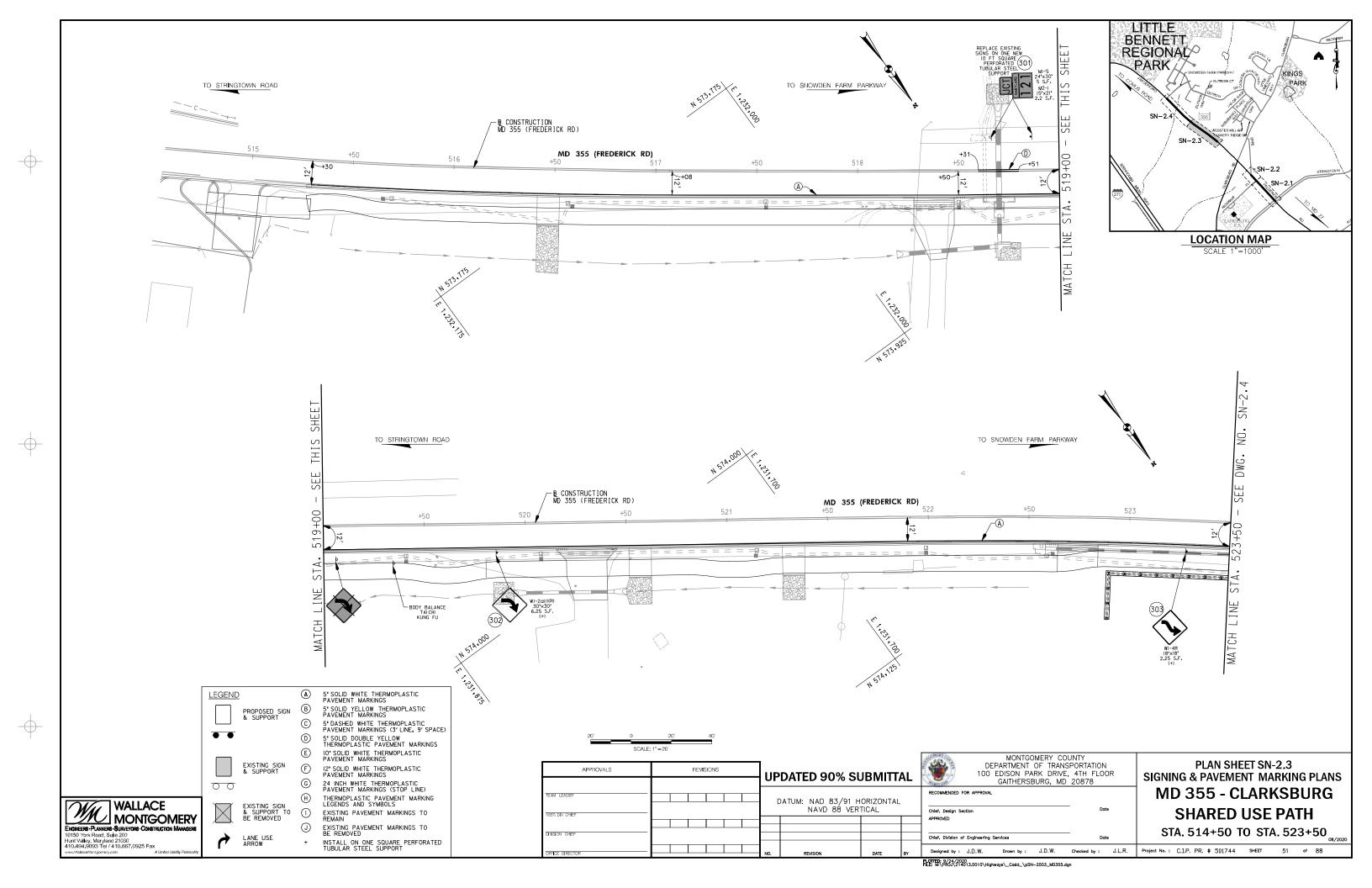
RECOMMENDED FOR APPROVA

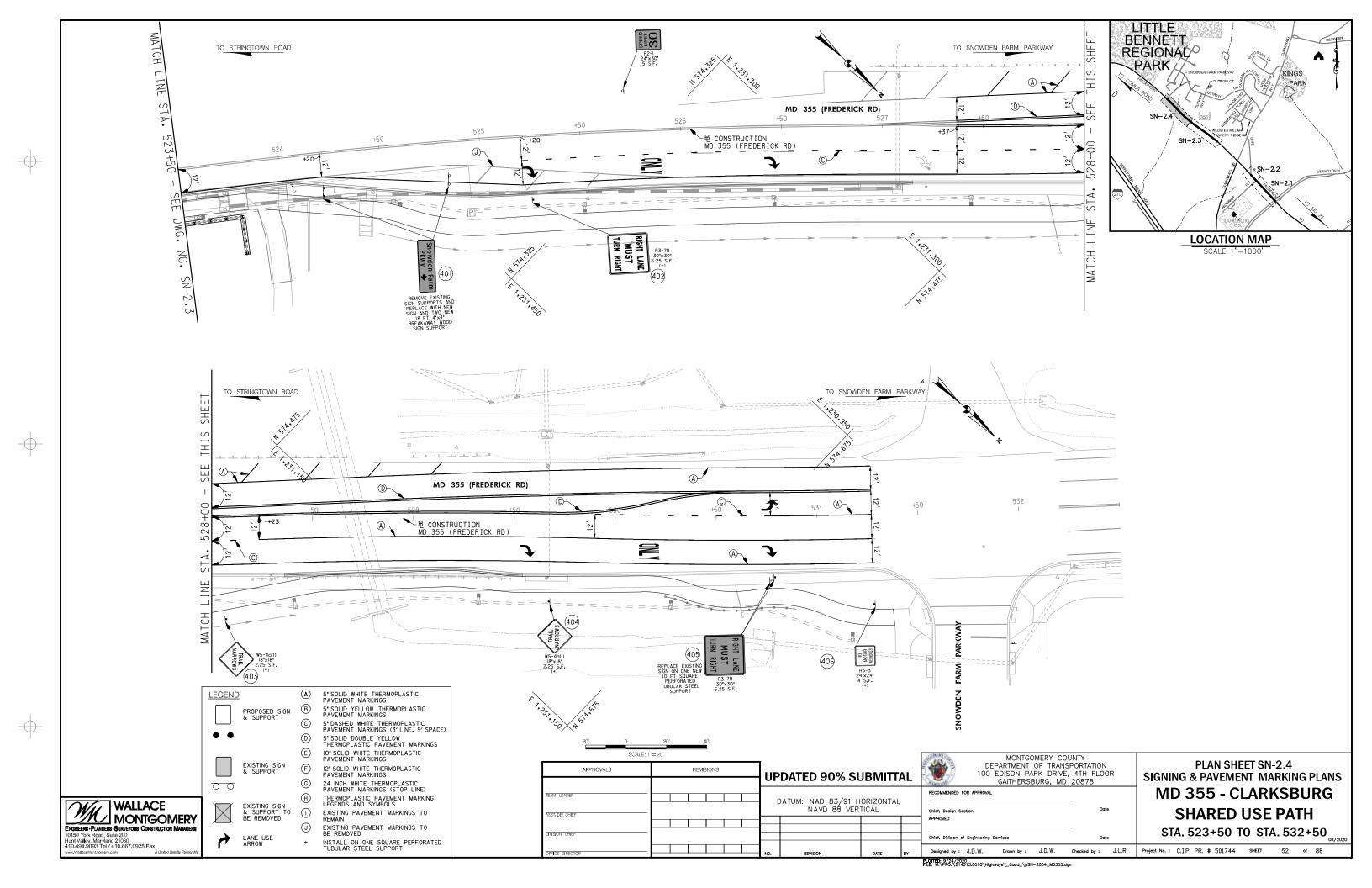
Chief, Design Section











SIGN	REMARKS	CODE NUMBERS*													
NO.	Terrato	1	2	3	4	5	6	7	8	9	10	11	12	13	
101	D11-1 (18"x24") 'BIKE ROUTE', R5-3 (24"x24") 'NO MOTOR VEHICLES'	ONE SQ PERFORATED TUBULAR STEEL SUPPORT	7	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								i	
104	RELOCATE MONTGOMERY COUNTY CORRECTIONAL FACILITY SIGN	ONE SQ PERFORATED TUBULAR STEEL SUPPORT		1	1	2								ĺ	
105	R7-4(2) (24"x30") 'NO STOPPING ANY TIME	ONE SQ PERFORATED TUBULAR STEEL SUPPORT	5	1	1										
	RELOCATE W16-9 (24"x12") 'AHEAD', S1-1 (36"x36") SCHOOL	ONE SQ PERFORATED TUBULAR STEEL SUPPORT		1	1	5									
	PAVEMENT MARKINGS							503		61		13			
														l	
201	D11-1 (18"x24") 'BIKE ROUTE', R5-3 (24"x24") 'NO MOTOR VEHICLES'	ONE SQ PERFORATED TUBULAR STEEL SUPPORT	7	1	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	D11-1 (18"x24") 'BIKE ROUTE', R5-3 (24"x24") 'NO MOTOR VEHICLES'	ONE SQ PERFORATED TUBULAR STEEL SUPPORT	7	1	1									l	
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	D11-1 (18"x24") 'BIKE ROUTE', R5-3 (24"x24") 'NO MOTOR VEHICLES'	ONE SQ PERFORATED TUBULAR STEEL SUPPORT	7	1	1									1	
	R1-1 (18'x18') 'STOP'	ONE SQ PERFORATED TUBULAR STEEL SUPPORT	2.25	1	1									ı	
	PAVEMENT MARKINGS							213		154				<u> </u>	
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										
	W1-4R (18"x18") REVERSE CURVE	ONE SQ PERFORATED TUBULAR STEEL SUPPORT	2.25	1	1										\vdash
	PAVEMENT MARKINGS							820	40						
														l	
401	RELOCATE EXISTING SIGN	TWO 4"x4" WOOD SUPPORT												1	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									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	D11-1 (18"x24") 'BIKE ROUTE', R5-3 (24"x24") 'NO MOTOR VEHICLES'	ONE SQ PERFORATED TUBULAR STEEL SUPPORT	7	1	1										
	PAVEMENT MARKING S							1384					126		
														<u> </u>	

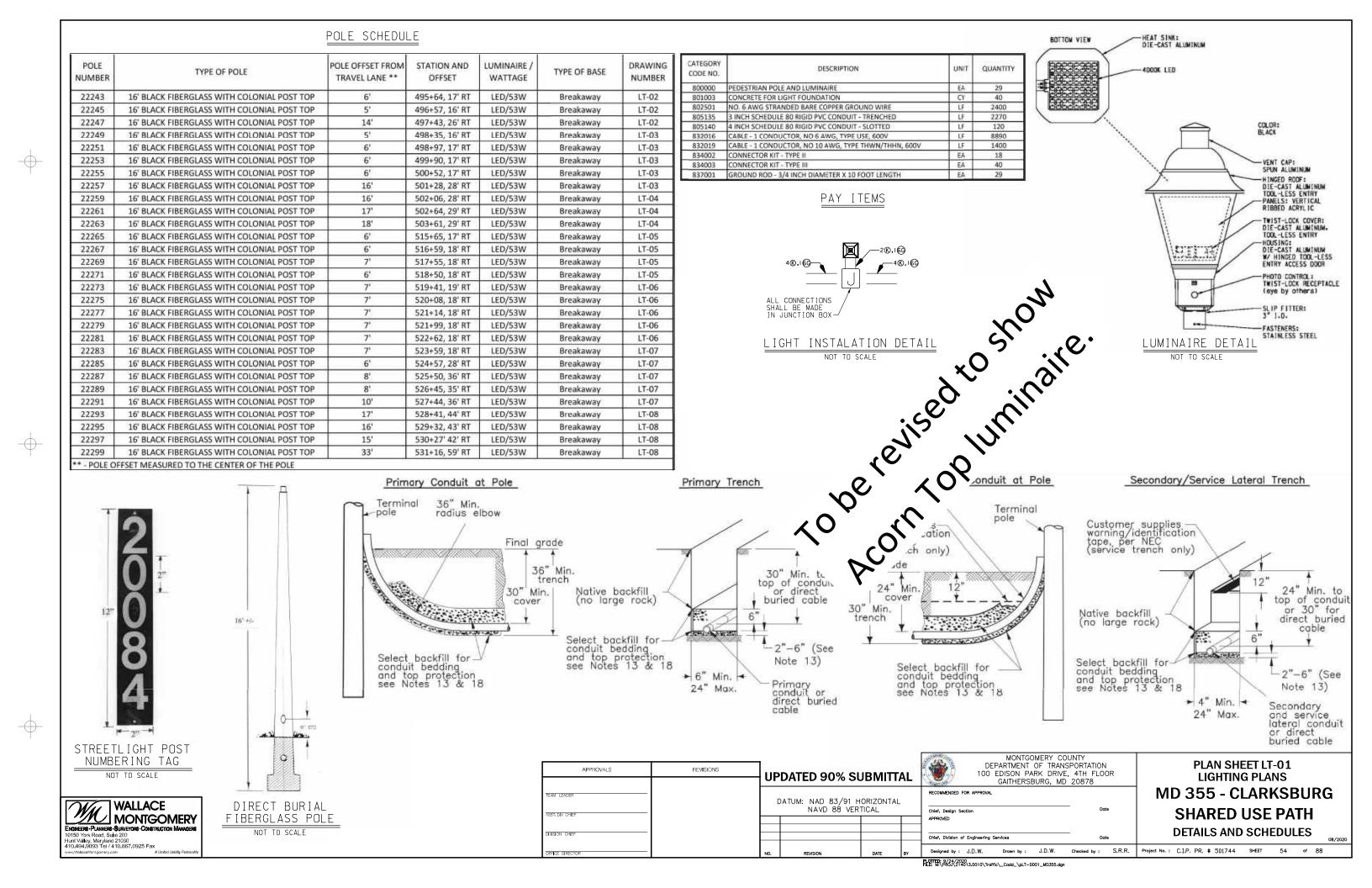
	* CODE NUMBER DESCRIPTION & UNIT									
CODE	NUMBERS	DESCRIPTION	UNIT							
	1	SHEET ALUMINUM SIGNS	SF							
	2	SQUARE PERFORATED TUBULAR STEEL SIGN POSTS	EA							
	3	SQUARE TUBULAR STEEL ANCHOR BASES	EA							
	4	RELOCATE EXISTING GROUND MOUNTED SIGNS	SF							
	5	REMOVE EXISTING GROUND MOUNTED 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							

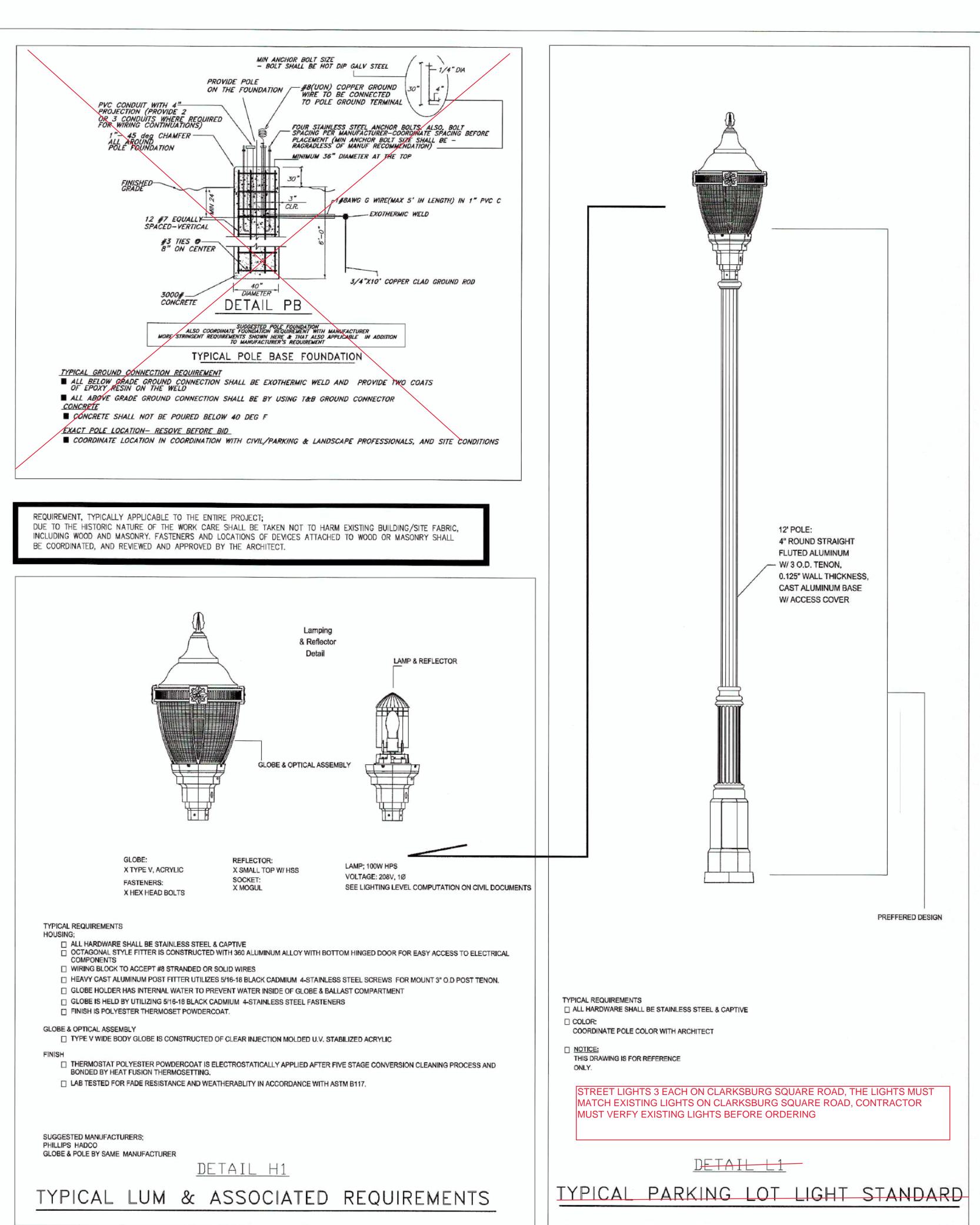
www.WallaceMontgomery.com	A Limited Liability Partnership

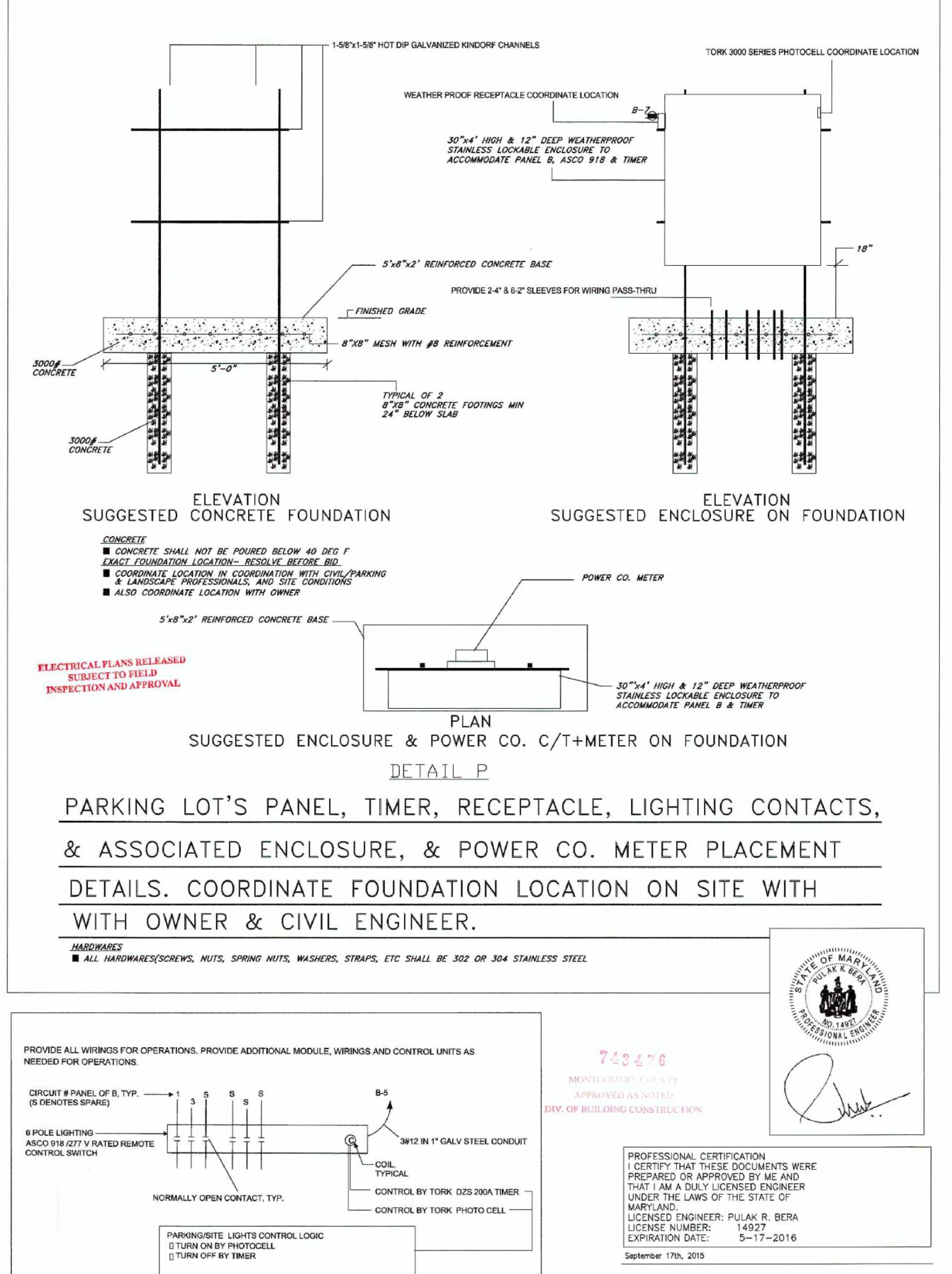
					way to	MONTGO	OMERY CO	UNTY									
REVISIONS	IJP	DATED 90% SU	JBMITT	ΔI		EDISON PA	RK DRIVE	SPORTATION E, 4TH FLOO		PLAN SHEET SN-11.1 SIGNING & PAVEMENT MARKING PLA							
					GAITHERSBURG, MD 20878 RECOMMENDED FOR APPROVAL					MD 355 - CLARKSBURG							
	DATUM: NAD 83/91 HORIZONTAL NAVD 88 VERTICAL				Chief, Design Section APPROVED			Date	В	SHARED USE PATH							
					Chief, Division of Engineering	Services					IND	EX OF (QUANT	ITIES			
	NO.	REVISION	DATE	BY	Designed by : J.D.W.	Drawn by :	J.D.W.	Checked by :	J.L.R.	Project No. :	C.I.P. PR.	# 501744	SHEET	53	of	88	

PLAN SHEET SN-11.1 SIGNING & PAVEMENT MARKING PLANS MD 355 - CLARKSBURG **SHARED USE PATH INDEX OF QUANTITIES**

PLOTTED: 9/24/2020 FILE: M:\PROJ\214013.0010\Highways_Cadd_\pSN-1101_MD355.dgn







LIGHTING CONTROL SCHEMATIC DIAGRAM FOR PARKING LIGHTS

1. PLACE THE LIGHTING REMOTE CONTROL SWITCHES CONVENIENTLY NEAR THE PANEL B.

SCHEMATIC DIAGRAM NOTES.

SHEET TITLE SITE LIGHT F

DR. HORACE WILLSON HOUSE 23329 FREDERICK ROAD CLARKSBURG, MARYLAND 20871
3RD TRY LC, OWNER

Bera Engineers, Inc.

13759 TRAVILAH ROAD

Phone: (301) 309-2350

ROCKVILLE, Maryland 20850

Sequence of Events for Property Owners Required to Comply With Forest Conservation and/or Tree-Save Plans

1. An on alle pre construction meeting is recorded in the limits of distintance have been staved and linguod, our binore any ordering an goaling linguit. The property have enshabling ask the Managameny locality Planning December in the rest stems of "Lethan construction to enable the entity the limits at distintance and day ask temporary from each time continuation." The goaling of the property of the continuation of the goaling of the property of the continuation. region colabia, construction superiorendest, de aucilies actoris ou Maralina, consection experi that will implement the tree procession measures, torest concervation inspector, and Department of Portraiting Services IDPS) sediment control inspector, about actional this period control inspector, about actional this period control inspector.

2. No distingion grading that begin before stress reduction measures have been implemented. If Appropriate measures may include but are not for the to-

- a. Boot printing b. Crown is duttern or prin c. Watering
- c. Felchard

Measures hall specified an the forest conceivation plan cray be required as determined by the lorest conservation inspector in

If A Marabose in an ordinary sport is an integral on a few absolution of a first school state of section all states reduction measure: | Decumentation of stress reduction measure; must be either observed by the forms conservation imprecise or next to the inspects at 8787 Socryya Alemin, Silver Spring 142 | 2040. | The room conservation imprecise with columns, the esset method to consecutive at each effect one measure or dumin the are construct on medical

4. Temporary tree protection devices shall be on as fed per the Parest Conservation Flags Tipe Save Plansand prior to any considerations. The procession of a superamonal control of the consideration of the considera

- a. Chair Telephone Bour Less Night.
- 5 Supplied through an executing between support poles joint than Africt right and high as oblight aggreg.
 5 14 gains. 2 and a 4 aid well-to ware lending supported by seed Than posts joint many 44 of light with high

9. To wap any processor devices that be maintained and invalid by the contractor to little duration of construction project, and for those are ded with compare coordinates for incontract and invalid in Receivable materials. As estimated that the contractor in the other contractor is the contractor of the contracto

is if cost introducing a spirit although allocating a regard by the figure to proceed on a producing a shake on the appropria

7, using turns production decides will be installed polithy Forest Conversation Plan/TimeSay. Plan and attacked details. A long term reconstructive and memorial region of the construction in a per Perlet to the plan drawing for long tree perfection on me the perfect of the plan drawing for long tree perfection of mesh per method. Our ing Construction

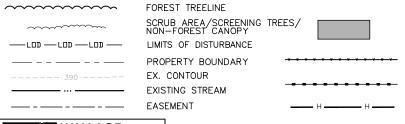
S. Poundo repetitives he has bened concernible image, he will be undersofted project. Core claims and report to illness protection devices, is determined by the forest conservation in special, must be made within the time house extension of lattice of the time report of

- 6. After contraction is completed, in a specific ratio 15. in occasion. Context we new concernmentally
 - in Removal and replin count of developed dying to exs some gold dead or declining limbs s skallamation

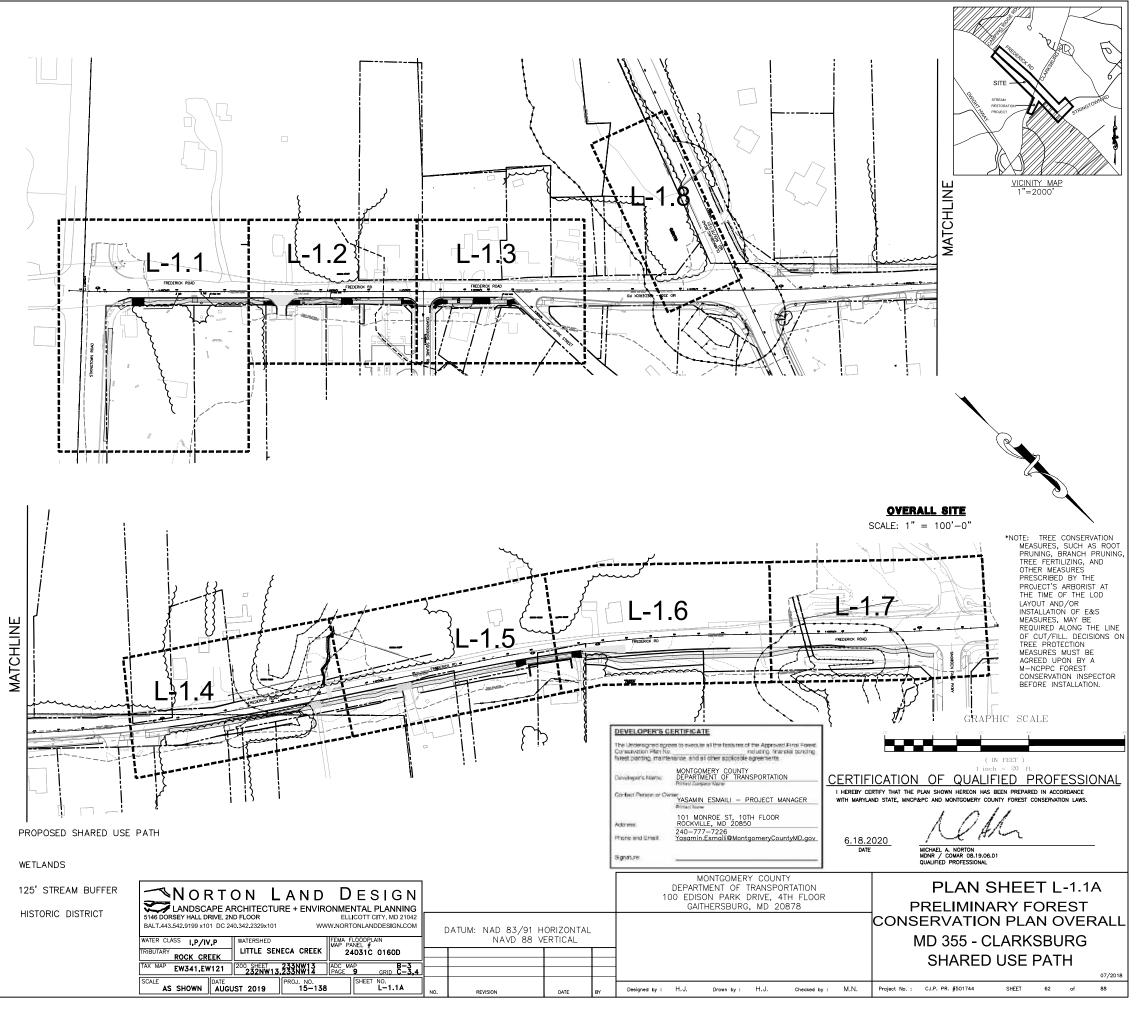
 - ethization
 Watering
 Worderspan
 - g. Clean up or cerent on a rea

10. After importion in it, amplitate of control our marks have before detration, all to accomply obstain to over shall be removed by left, after the loss of the protect or all ones that also operate for closure and administration must be exceptionated with both the Department of Permitting Services and the forest conservation imported. No additional prating southing to based may take place after the tirk protection lengths is removed.

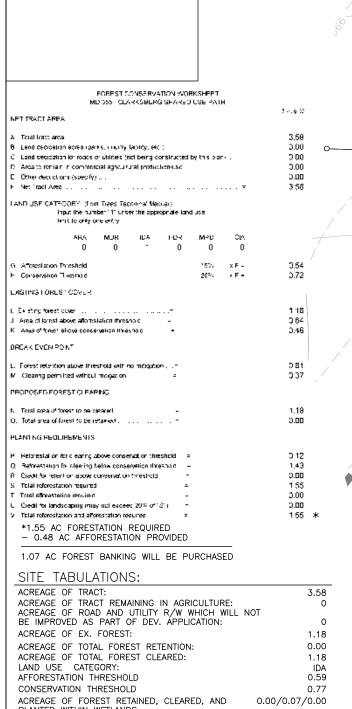
LEGEND



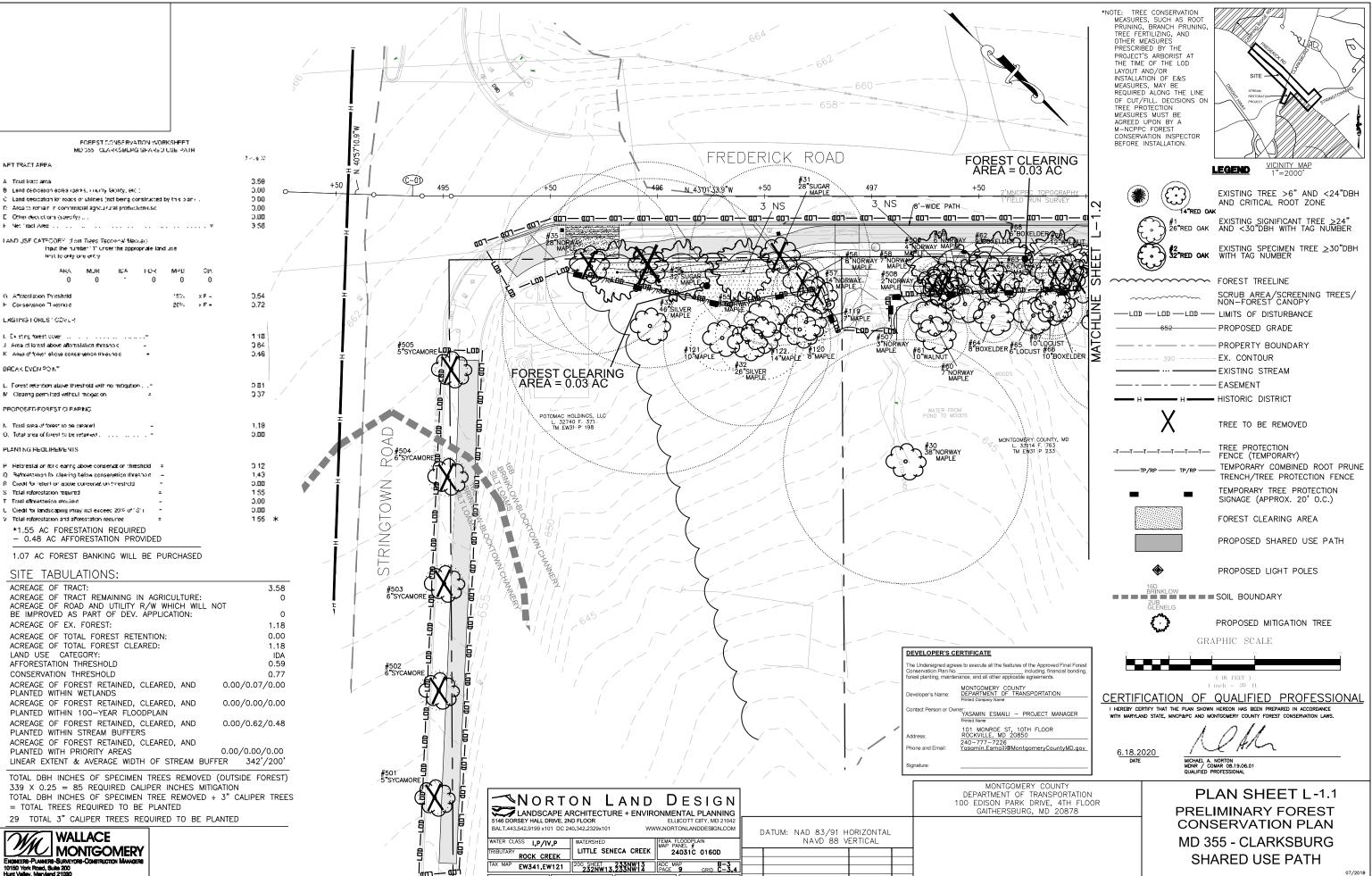












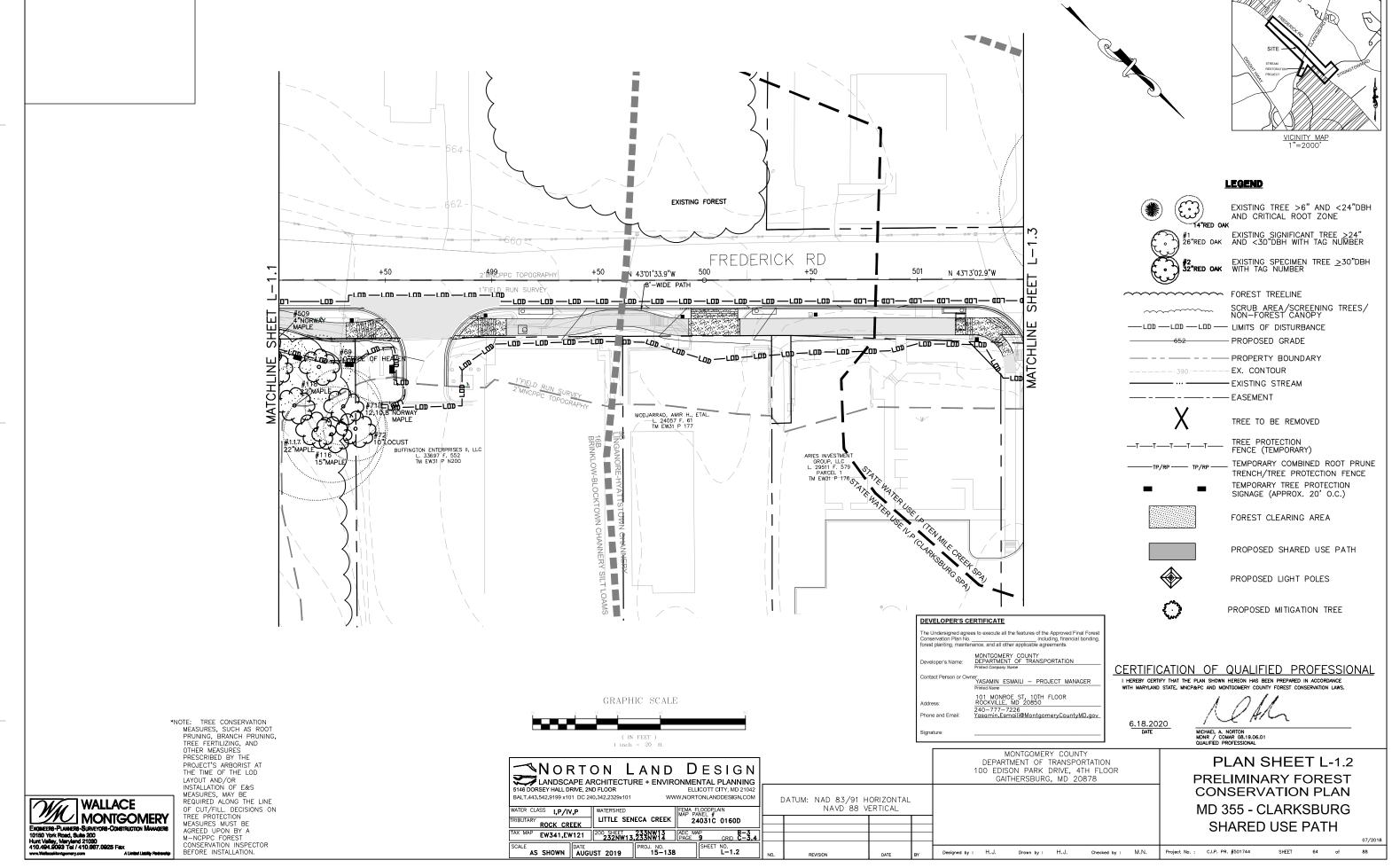
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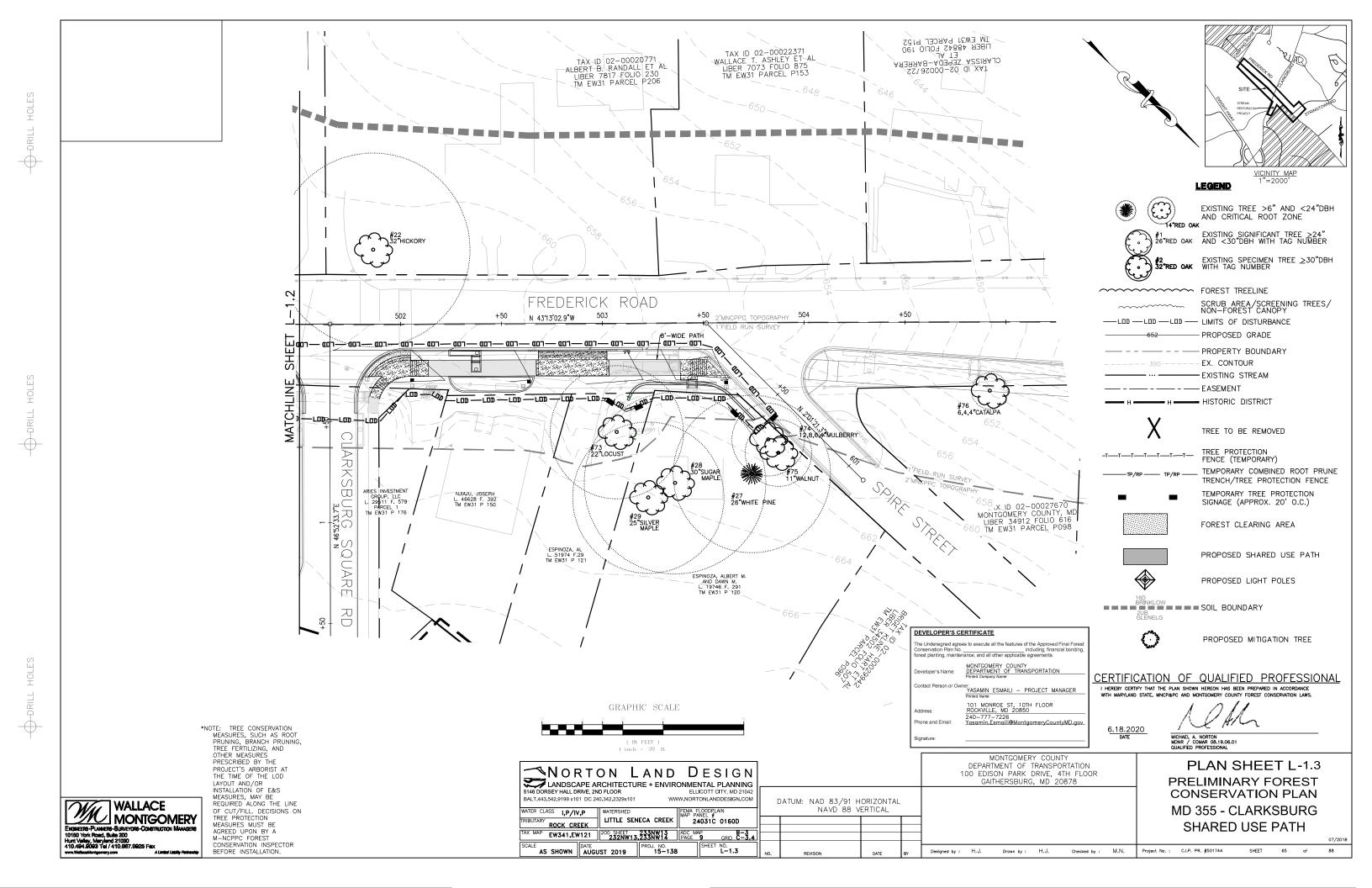
Project No.: C.I.P. PR. #501744

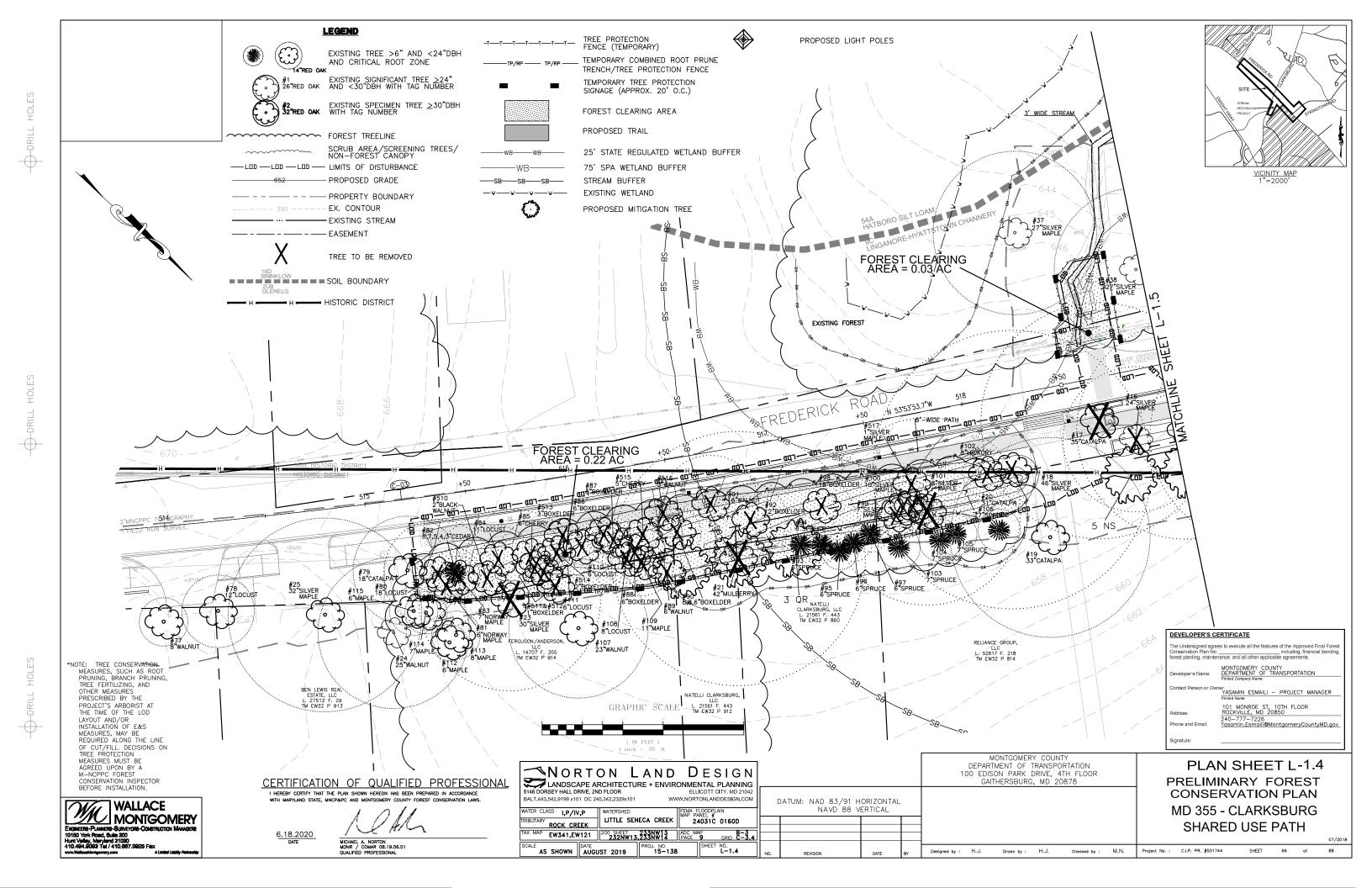
Drawn by: H.J.

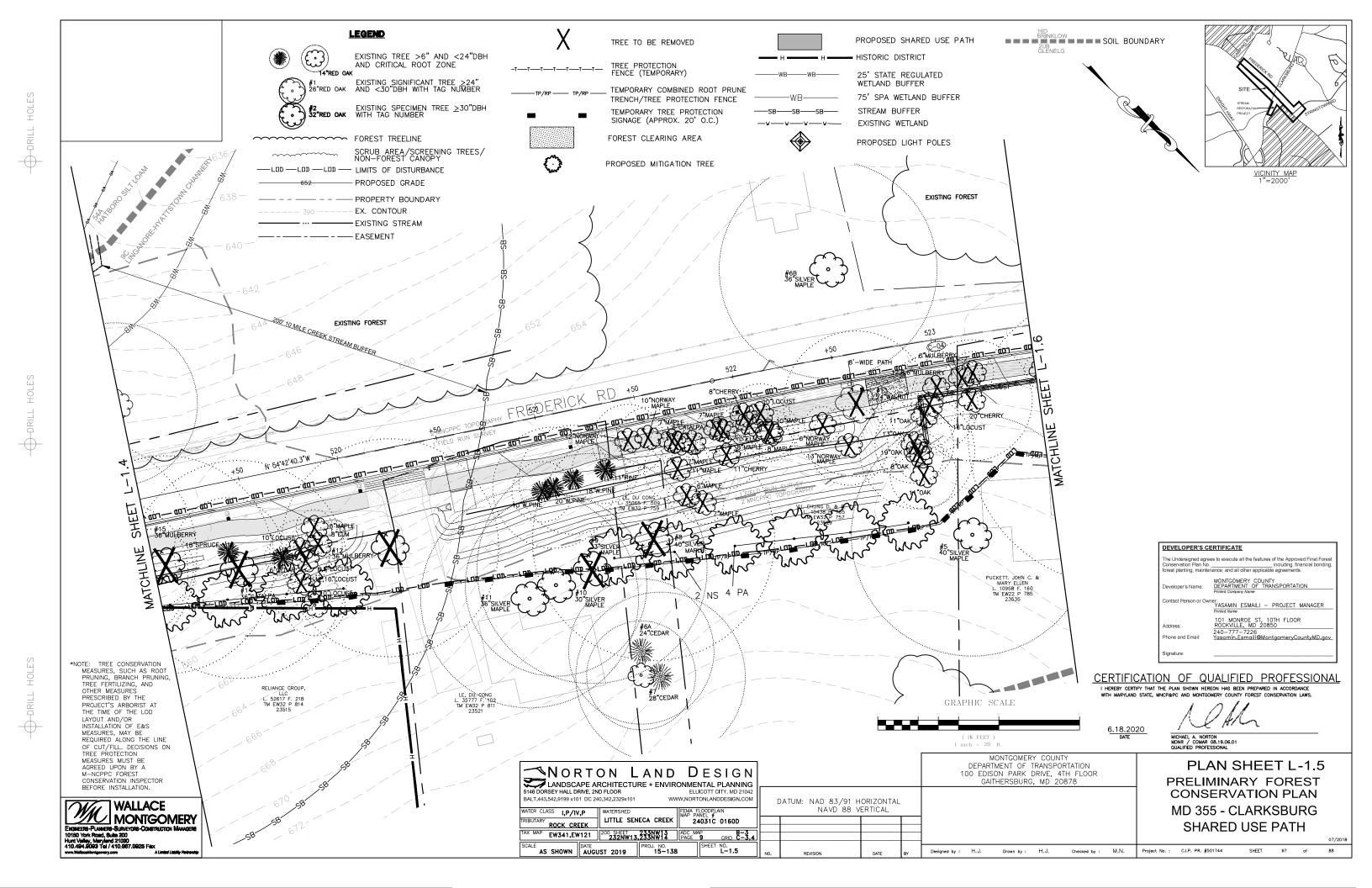
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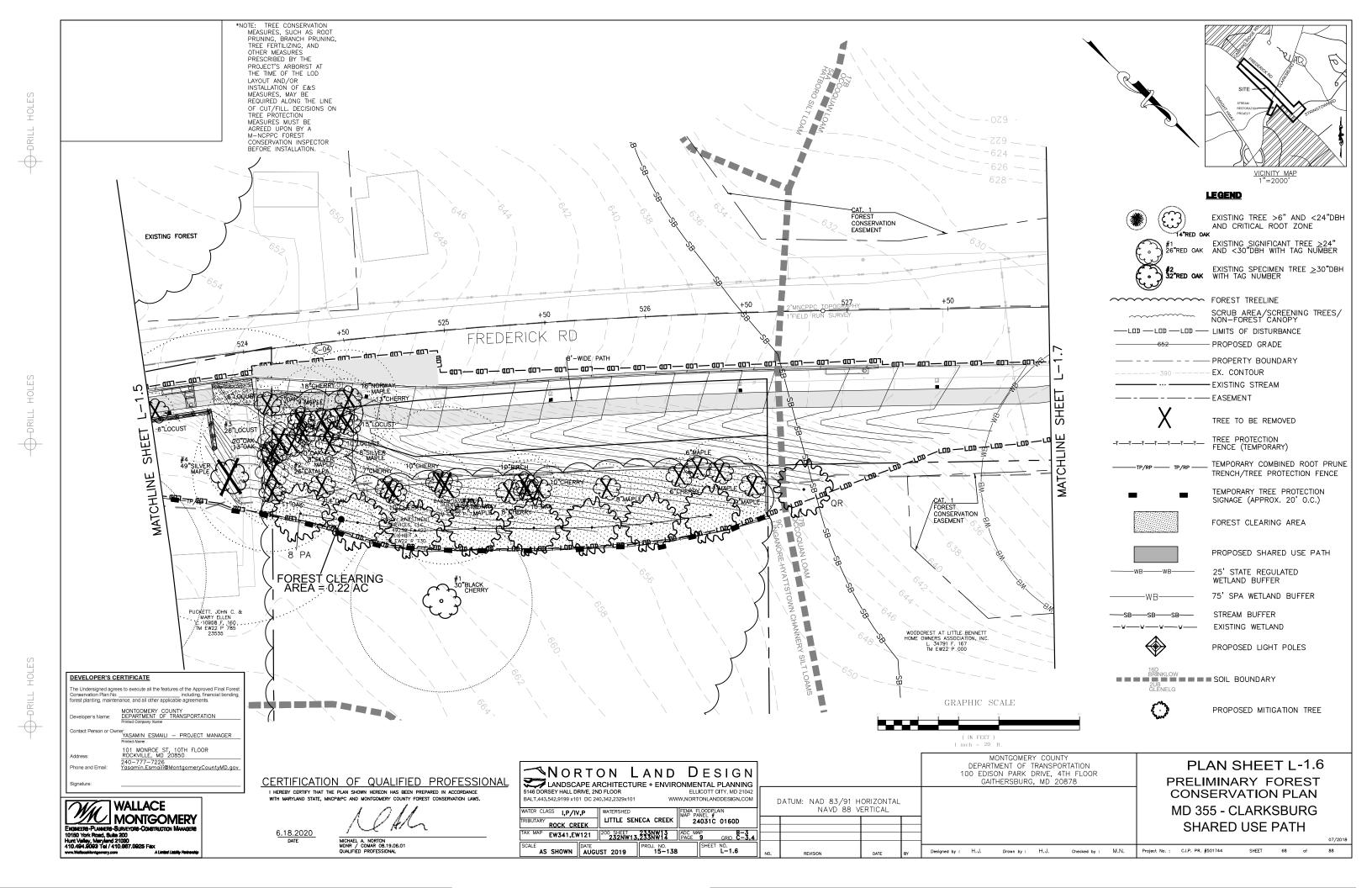
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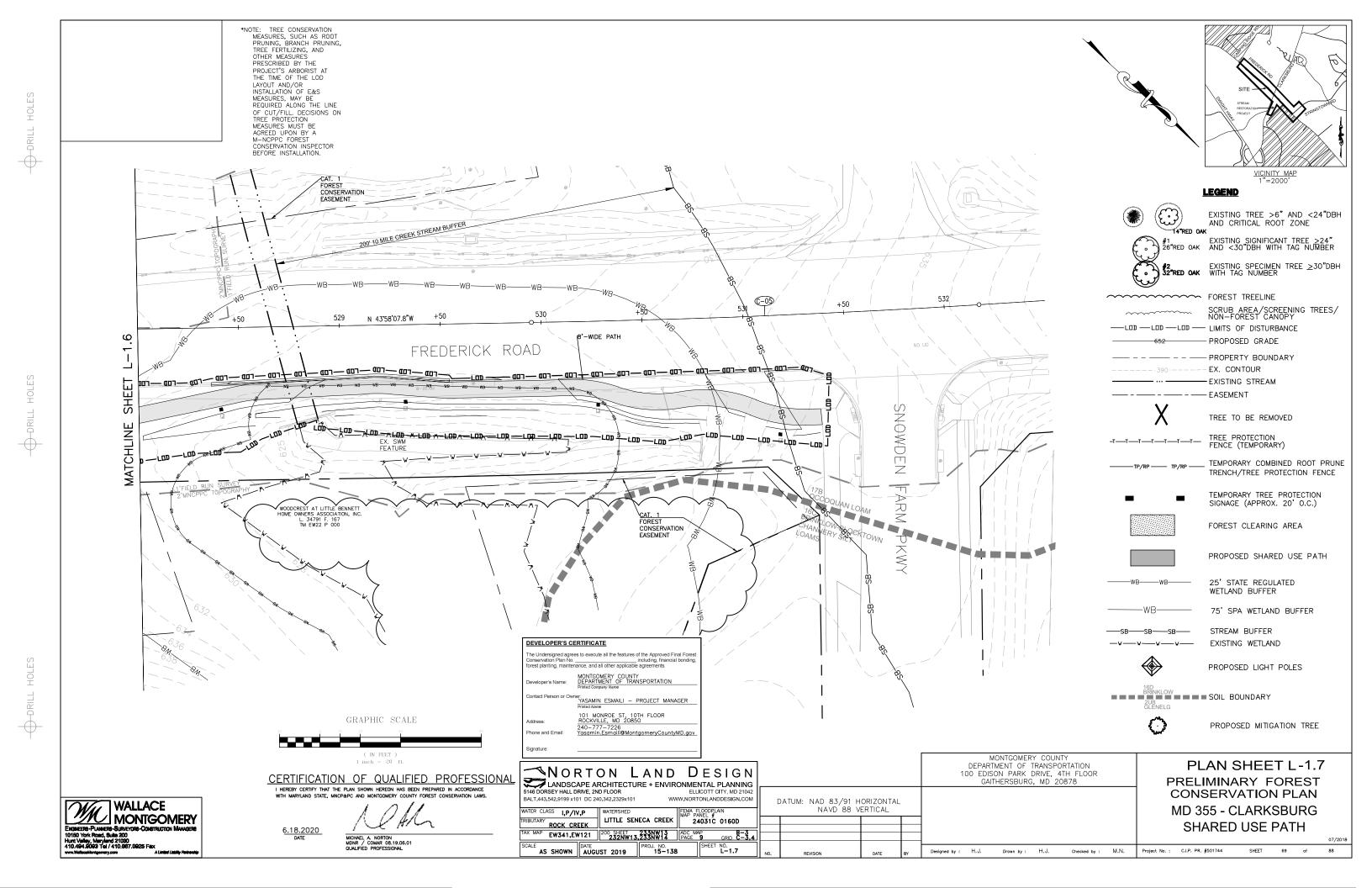


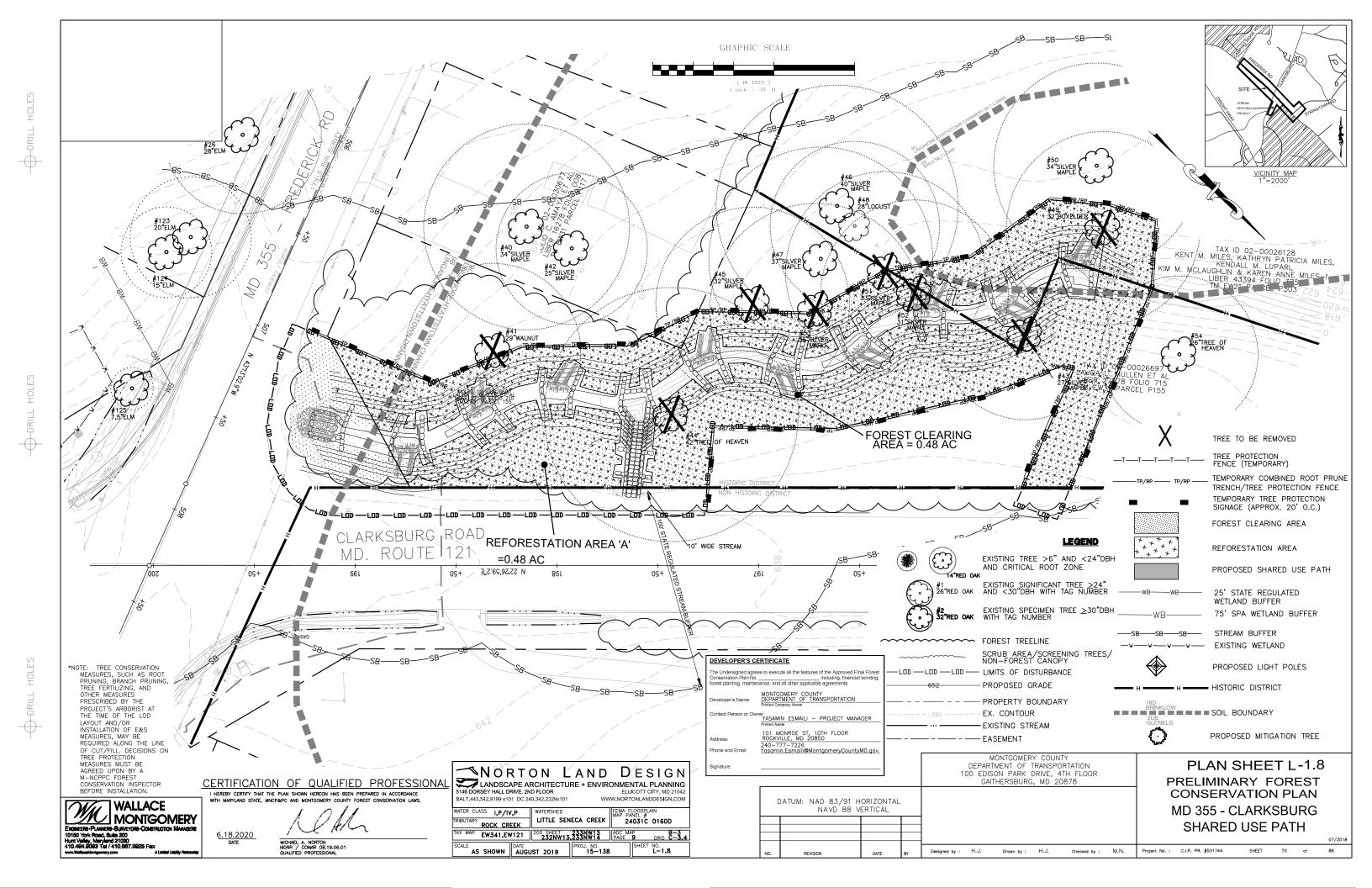








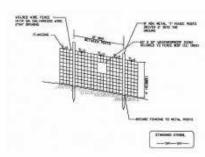




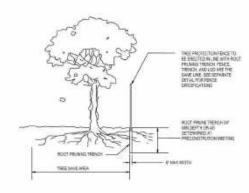
WALLACE
MONTGOMERY ENGREPS-PLANEERS-SURVEYORS-CONSTRUCTION MANAGERS 10160 York Road, Suite 200 410.494.9093 Tel / 410.897.0925 Fax
www.Welfacekkentgesmary.com A Linited Liability Planiseship

	Species	- Montes	and the state of	Summery 24" +	Same and the	Tou-	Commission	Emmur	Morro
s f Species Scientific Hares	Species Common Name	(inches)	Zone (Sq.Pt)	Gritical Root Jane Impacts		Tree Condition	Comments	SCHUK	Varience
PRIMES SENOTINA CATALEN SENOTINA	BACKCHBO	36	1012	33/	tra	SOR	VML BOXESHACIES SPLIT @ 7	SAVE AND PROTECT	ms.
ROBBIA PRELEGIAZACIA RCSH SACCHARREN	ELADALIA BLADKLDOJST 18 VFR MARK E	A	6776 6776 16007	6776 16872	190% 190% 190%	FOCR FOCR (AS	VINE CONCRED. SEAD SERVICINES VINE CONCRED. SEAD SERVICINES VINE CONCRED.	TO DEPENDATE TO DE REMOVED TO DE REMOVED	NA. NS.
ACTR SACHSANNESS	SEVER MARCE CITAR SP	40 24	1016	3300	29%	6000	100 100 100 I	SAVE AND PROTECT SAVE AND PROTECT	MS BA
ACTE MICHARINA MORSOS IP	OF A SER WITH E	8	9161		0% 17%	FAR	purar	SAVE AND PROTECT	80 31A
ACRESACCIONNOM	SELVER MAPLE	W T)	11218		180% 180%	F000 0000	WHE CONCRED DEADDRANCIES SPLIF & S	TO DE REMITATES TO DE REMOVES	WES .
ACTRISACCINARION	SELVER MAPLE SELVER MAPLE	30	1012 1111	200	10%	G000		SAVE AND PROTECT	VES.
MORUS SP. LICELAND NISPA	MILE REPORT OF STATE	36			1975	POOR	TROME DEMOLOGY BALLOCHELING CHYV	TO BE REMOVED	DES DES
CATELON SPECIOSA MORES SP.	CATALINA MIX BEGIN SP.	*	9121	9161	180%	POOR.	HE LANDERSPLITTING 2 PROPED LEAGER, VINES	TO BE REMOVED.	YES
CATALPA SPECKSA	ENTAGEN ENTAGEN	24 25	4977	4577	1995	POOR.	TRUM CHANGED, PROMOTI CHICES, CENCURRATED VINE CONTROL PROMOTICS CHICAGO	TO BE REMOVED	NS NS
CATALPA SPECIOSA	SEVERMANUS CATALINA	新 刀	14957 7656	1997 299	190%	PEOR FAR	MARK LEADER PROMEST, IMARY PROMESS CHAV	TO BE REMOVED.	WS.
CATALPA SPECIOSA MONTA SP.	CATALINA MALIESPEY SP.	H C	6793 12468	12408	180%	IAN IAN	SPLIT & 3°, 30° LEALING, A2° LEALING	TO BE REMOVED.	WES.
CARRA SP. ACTR SACCYMARION	INCHOSTY SP.	35	1590	18	57%. 189%.	SOOD FOOR	CHECKTE THERE CARRAGED, YERE, BROYER ERRANCHES	TO SE REMOVED	VES.
AKILARE-RESPA.	BLACK WATER	25	9419 (238	4	0% (%	FAR	WIGGLE LEADER PROMED TO: U.F. ONW	SAME AND PROTECT MAYE AND PROTECT	WS.
PREES STROKES	MATERIAL TOPE	H N	1542 6778	235	25	G000 F68	OHE VIBES, INCOME SERVICIES	SAVE AND PROTECT	MO.
ACER SACCHARINI ACER SACCHARININ	SEVERBURY:	20		0.0	0%	6000 6000	WUISE I	SAME AND PROTECT	100
ACRESACCIONES	BORWY MAPLE BUGARBAPLE	38			1994	POOR.	SPLITTING #1, DROMENSHOWNCHES, VINES, LITTLE GROWTH VINEARWAY	TO BE REMOVED	WES
ACRESACCIONISM	SELVER MAPELE	*	14897	9054 3054	17% 34%	POLIS	STATES OF COMMENT OF STATES AND ASSESSED ASSESSED OF STATES AND ASSESSED	SAVE AND PROTECT	WS.
ACREMICENTARY ACREMIANAMENT	SUGAH MAPLE HORWAY MAPLE	28	7838 ID42	7236 3040	1905	FARE	DESCRIPTION OF THE STREET	TO BE REMOVED.	WES
ACER RATA/CORES ACER SACOMARREM	SERVINY WATE SEVERWATE	35	979 950	ATTR SEE	780% 2%	0000.	SEGER F	TO REPORT OF STREET	NA.
VOID VOID VOID VOID VOID VOID VOID VOID	NOD NOTE AND A STATE OF THE STA	YOR	YOU	AURI	VOD:	9:00 0:00	AND SITE BY ILI.	SAST ASSUMOTEST VOID	YOR
ACTH SACCHURUM AGLARS WASA	SEMERBORLE REACKWALLEUT	и 8	9945		17% 17%	GOOD POOR	716	TO BE REMOVED	NES.
ACER SACCIONISM ACER SACCIONISM	DEVENMALE SEVER MARKE	25 26	4416 8542	1 104i	190%	poqu	1000	TO BE BRIDGINGS	No NS
ARABITRES ALTERIDA. BCIRI SACCINARINI	THE OF HEAVILE SEVER BRAILE	10 70	15469 7330	13969	190% 68%	9009 6000	MITSING GAIR, VINE	TO BE REMOVED.	WS
ACRESACCHARION	SELVER MARKE	T .	9677	929 3029	25 20	G000	SALL B. C. H. M.	SAVE AND PROTECT SAVE AND PROTECT	DES
ACEMINOUNDO	BORLINS				1975	G000 G000		TO BE MEMORIES	YES.
NUMBER OF STREET	SEVER MARLE	M D	rese	1736 7638	1875	6000 6000	PUT & T. IF.	TO BE SENSORED	YES
ACTR SACCINARIUM ACTR SACCINARIUM	SEVERBORE	75	6793 9699		1905	G000 P008	ALCOHOL (MAR.	TO BE REMOVED	W.S.
SECRETARION SECURITION	TREE OF HOWERS HORSON MANUE	M	4176 462	20	12% #%	G000 G000		SAVE AND PROTECT	VES VES
ACHI SACHWAREN	MORWAY MAPSE	14	(38)	(4)	1974	6000		FOREREMONE)	VES
ACRESACHMENTAL ACRESACHMENTAL	HORWAY MAPLE HORWAY MAPLE	1	24		12%	G000		SAME AND PROTECT	783
ANGLERS MIGRA	BLACKWALIBIT	Time .	767	3	(M) (M)	G000		SAME AND PROTECT	100
ACBINEGADO ACBINEGADO	ROME OF R	k .	254	254	1975	G000		TO BE REMOVED.	YES YES
ACERNEGONIXO REMINA PREDICACACIA.	BLOCKLOCHET BLOCKLOCHET	1		8	0%	G000		SAVE AND PROTECT	NO NO
ROBBA FROXICACIA	BLACKLOCUST	16	167	139	27% 17%	G000		SAVE AND PROTECT	WES.
ACHTHEGREO BRANTHIS ALTERNA	THEE OF HERVEN	16	ray	221	190% 27%	G000		MAY AND PROTECT	YES
ACCESACIONARIA	HLACKWALINT HOWAY MAPES	ti.		9	1905	G000		NAVE AND PROTECT	N3.
ROBBRA PSEUDOACACIA BOXBBA PSEUDOACACIA	BLACKLOCULT BLACKLOCULT	20	3421	res	25%	G000		SAVE AND PROTECT	(NS
ANGLEAS WEAR	MILACRIMITOR	11	805	5	15	G000 G000		SAME AND PROTECT SAME AND PROTECT	WS
ARCLANS MORA	DEACHWALRUT	9	402	9	0% 0%	G000		SAVE AND PROTECT SAVE AND PROTECT	360
CATALPA SPECKISA	ELACKLOCIST CATACHA	10	/10/00 /J.790	(NC)	165 145	0000		SAVE AND PROTECT	903 903
ACER SACHWAREAU	MORWAY MAPLE	tat.	2290		1905	G000		FORE REMOVED	VES
ARRESTS OF ACCIONISM	MERWAY MAPER	7	341		180%	G000		TO BE REMINED	WES
PRINTS SP.	DIACKLOCULT CHIEFE ST.	8	264	04	1975	G000		TO BE REMOVED	VES.
ACERTIFICATION ACERTIFICATION	BONEL DESI	6	254 258	24 24	180%	G000 G000		TO BE REMOVED	YES
ACTIONSONIOS JOSEANS WORK	BUNCH MATHOL BUNCH MATHOL	1	214	294	1905. 1905.	G006		TO BE REMOVED	YES.
ACEMINESIANO AGLANIS INGRA	BUACK WALHAIT	16	1616	010	18%	G000		TO BE REMOVED	WES.
PICEA SP:	SPRECE	d I	1018 254	254	1905	G000		TO BE REMOVED TO BE REMOVED	VES.
PRIZA SP. PRIZA SP.	SPECE		2M	264		G000		TO BE REMOVED.	ms.
PICEA SP.	SPACE		254	254	180% 180%	G000 G000		TO BE REMOVED	VES
ACTRIBUTION ACTRIBUTION	SEVER BEINZ	7	2290 346	2290 546	180% 180%	G000		TO BE REMOVED	YES YES
ACER SACCHUMEN	SA VER MARLE	9	462	492	1975	G000		TO BE REMOVED.	795
CARDA SP. PRODA SP. PROPA SP.	PROTECTION SP.			61		G000		TO BE REMOVED SULVE AND PROTECT	Wis.
PICES SP.	SPINCE	r.	341.	26	19%	G000		SAVE AND PROTECT SAVE MAD PROTECT	VES.
ACLASSINA	SPRESS BLACKWALRIF	20	30%	607	12% US-	G000		SAVE AND PROTECT SAVE AND PROTECT	TES.
ROMA PSHIGACACA ACRESP ROMA PSHIGACACA	MAPLE SP	11	#12 #15	492 855	180%	6000		TO BE REMOVED	YES
ROBBUL PSEUDOLGACIA	BLOCLOCUST BLOCLOCUST	1		254	190%	G000		TO BE REMOVED	ms ms
ACTR SF. ACTR MF. ACTR SF.	MAPLE SP. MAPLE SP.		63		on.	6000 6000		SAVE AND PROTECT UNIVE AND PROTECT	(80)
ACBITIE.	MAPLE SP.	•	264		N	G000 G000		SAVE AND PROTECT SAVE AND PROTECT	WES.
ACBISE.	WAPLE SP.	rs-	3691	9	10% 10%	G000		SAVE AND PROTECT	HO
ACTR SF. ACER MF.	MAPLE SP.	7	346	0	05 06	GOOD		SAVE AND PROTECT SAVE AND PROTECT	100
ACER SE	MAPLE SP.	70	707	9	0% 0%	6000 6000		SAVE AND PROTECT	(B) (B)
ACHESP. IN MID SP. IN MID SP.	MARIE SP.	20	2827	9.7	05	G000 G000		SAVE AND PROTECT SAVE AND PROTECT	W.S.
OCHOS QI.	ri, w	r r	344	9	on .	G000 G000		SAME AND PROTECT SAME AND PROTECT	(R)
PLATANUS OCCUBERTALIS PLATANUS OCCUBERTALIS	SYCARIORE SYCARIORE	4	254	214	085 605	G000		TO BE REMOVED	WS.
PLATANES OCCURRITALIS PLATANES OCCURRITALIS	SWARIORE SWARIORE		354 354	294	1974	6000 6000		TO BE REMOVED.	WES.
PLATWISS OCCUPRITALIS ACREPILATION DES	SYCAMORE BOSWAY BAPLE	4	111	107	190%	G000		TO BE REMOVED.	YES
ACERPLATAMORES	HORMEY MAPLE	2	TR.	75	180%	6000 6000		TO BE REMOVED.	YES.
ACHIPLATOWORK ACHIPLATOWORK	REDEKNALHAT	ý	26		1975	G000 G000		TO BE REMOVED	YES
6CB18G8900	SCHELIEN SCHELIEN		1	ř.	180% 180%	G000		TO BE REMOVED	YES
	BOBB DEE	187	H:			SOCE		TO BE REMOVED	(YES
ACHINESINO ACHINESINO	BORELIES	2	*	2	120%	5000		TO BE BEMOVED	763
ACERTROSONOO .		2	617	977 94	180% 180% 180% 180%	G000 G000 G000		TO BE REMOVED TO BE REMOVED TO BE REMOVED	WES WES

Tree Protection Fence Detail



- Practice may be combined with sediment control bending. Location and limits of fencing should be coordinated in field with arbanat. Bloomdaries of protestion area should be stailed arrier to Installing protective device. Back damage should be avoided Protection signage is required. Fencing shall be maintened throughout coordinating.



- 1. RETENDION AREAS WILL BE SET AS PART OF THE REVIEW PROCESS AND PRECONSTRUCTION
- 2. BOUNCARIES OF RETENTION AREAS MUST BE STAKED AT THE PRECONSTRUCTION MEETING.
- AND FLAGGED PROR TO TRENCHING.

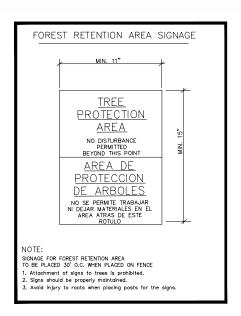
 3 EXACT LOCATION OF TRENCH SHALL BE DETERMINED IN THE FIELD IN COORDINATION WITH
- THE POREST CONSERVATION (FC) INFECTIOR.

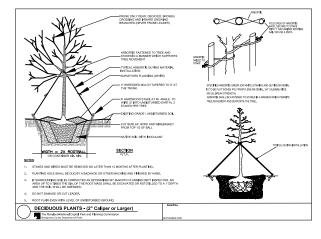
 4 TRENCH SHOULD BE INMEDIATELY BACKFILLED WITH EXCAVATED SOIL OR OTHER ORGANIC.
- SOIL AS SPECIFIED PER PLAN OR BY THE FOUNSPECTOR.

 IL POOTS SHALL BE CLEANLY OUT USING MERATORY KNIFE OR OTHER ACCEPTABLE.

ALL PRUNING MUST BE EXECUTED WITH LOD SHOWN ON PLANS OR AS AUTHORIZED IN WRITING BY THE PC INSPECTOR.

ROOT PRUNING DETAIL





CERTIFICATION OF QUALIFIED PROFESSIONAL

6.18.2020 DATE

PROPOSED LANDSCAPE PLANT SCHEDULE

		KEY	BOTANICAL NAME	COMMON NAME		SIZE	FORM	SPACING	QUANTITY
			TREES						
Conservation Plan No.	to execute all the features of the Approved Final Forest including, financial bonding,	NS	NYSSA SYLVATICA	BLACKGUM		2" CAL.	B&B	SHOWN	13
forest planting, maintenance, and all other applicable agreements. MONTGOMERY COUNTY Developer's Name: DEPARTMENT OF TRANSPORTATION Printed Company Mane		PA	PLATANUS X ACERIFOLIA	LONDON PLANET	REE	2" CAL.	B&B	SHOWN	12
Contact Person or Owner		QR	QUERCUS RUBRA	NORTHERN RED	OAK	2" CAL	B&B	SHOWN	4
Address: E	101 MONROE ST, 10TH FLOOR ROCKVILLE, MD 20850 40-777-7226 asamin.Esmaili@MontgomeryCountyMD.gov		MONTGOMERY COUNTY	N	DI	ΔΝ	SHE	=T _	1 9

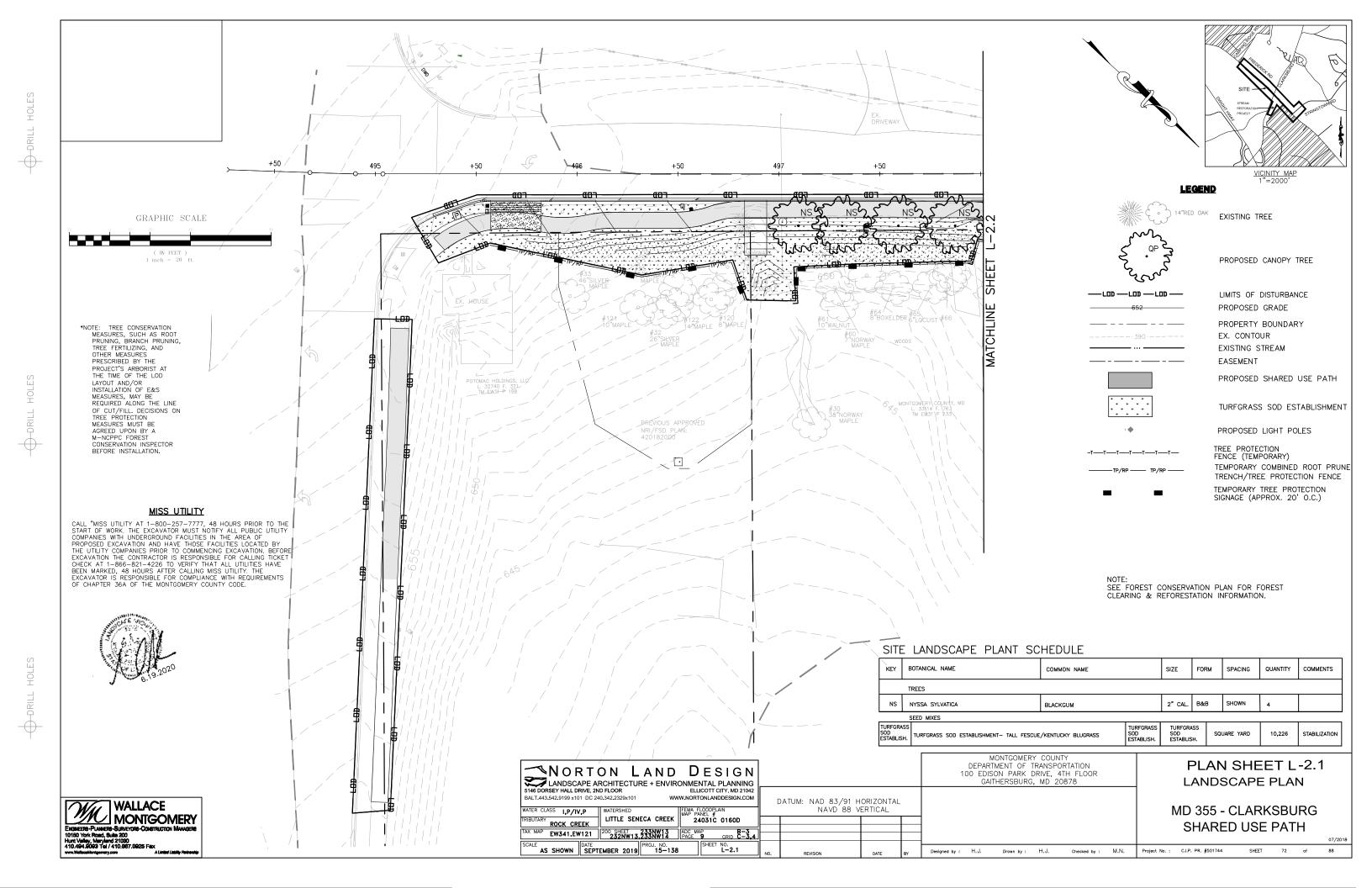
MONTGOMERY COUNTY
DEPARTMENT OF TRANSPORTATION
100 EDISON PARK DRIVE, 4TH FLOOR GAITHERSBURG, MD 20878

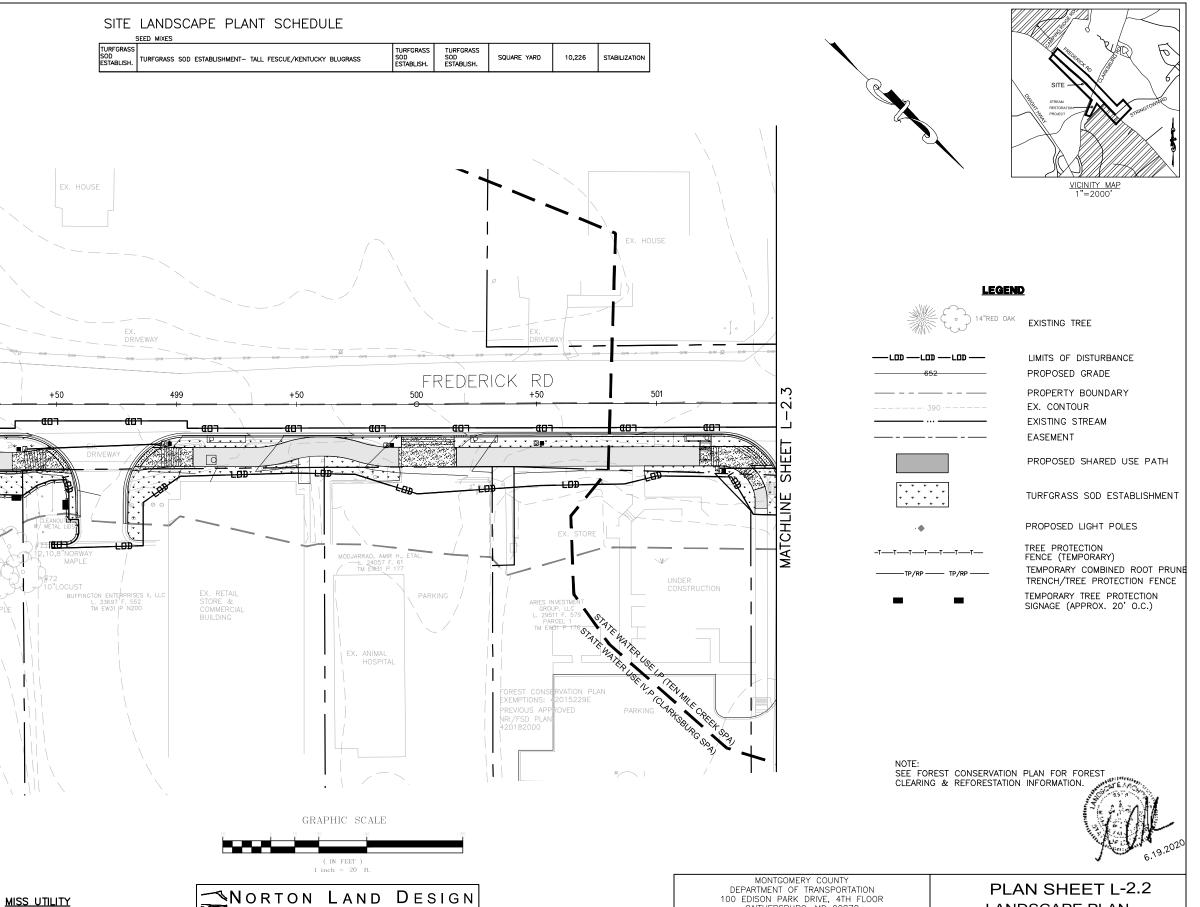
Designed by : H.J.

DATUM: NAD 83/91 HORIZONTAL NAVD 88 VERTICAL

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

Checked by : M.N. Project No. : C.I.P. PR. #501744 SHEET 71 of Drawn by: H.J.





*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.



MATCHLIN

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 CALLLING 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.

LANDSCAPE ARCHITECTURE + ENVIRONMENTAL PLANNING
5146 DORSEY HALL DRIVE, 2ND FLOOR
ELLICOTT CITY, MD 21042 WATER CLASS I,P/IV,P LITTLE SENECA CREEK 24031C 0160D ROCK CREEK TAX MAP EW341,EW121 200 SHEET 233NW13 ADC MAP PAGE 9

L-2.2

AS SHOWN SEPTEMBER 2019 PROJ. NO.

DATUM: NAD 83/91 HORIZONTAL NAVD 88 VERTICAL Designed by : H.J.

GAITHERSBURG, MD 20878 LANDSCAPE PLAN

Checked by : M.N.

Drawn by: H.J.

Project No.: C.I.P. PR. #501744

MD 355 - CLARKSBURG SHARED USE PATH

73 of



*NOTE: TREE CONSERVATION
MEASURES, SUCH AS ROOT
PRUNING, BRANCH PRUNING,
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CONSERVATION INSPECTOR

BEFORE INSTALLATION.

SITE LANDSCAPE PLANT SCHEDULE

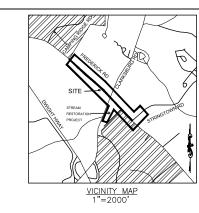
	SEED	MIXES	
RASS			

	SEED MIXES				
TURFGRASS SOD ESTABLISH.	TURFGRASS SOD ESTABLISHMENT - TALL FESCUE/KENTLICKY BLUGRASS	TURFGRASS SOD ESTABLISH.	TURFGRASS SOD ESTABLISH.	SQUARE YARD	

2 Ö +50 504 +50 503 +50 502 SHEET MATCHLINE TAX

TM EW31 PARCEL P206

IM ENVI FARULL FIDO



LEGEND

14"RED OAK

EXISTING TREE

-LOD ---LOD ----LOD ·

ŚST8S00d-SÓ OI XAİ

LIMITS OF DISTURBANCE PROPOSED GRADE

PROPERTY BOUNDARY EX. CONTOUR EXISTING STREAM

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.)

SEE FOREST CONSERVATION PLAN FOR FOREST CLEARING & REFORESTATION INFORMATION.

GRAPHIC SCALE

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 CALLLING 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 240.342.2329x10 WATER CLASS I,P/IV,P LITTLE SENECA CREEK AP PANEL # 24031C 0160D ROCK CREEK TAX MAP EW341,EW121 200 SHEET 233NW13 ADC MAP PAGE 9 AS SHOWN SEPTEMBER 2019 PROJ. NO. L-2.3 DATUM: NAD 83/91 HORIZONTAL NAVD 88 VERTICAL

DEPARTMENT OF TRANSPORTATION
100 EDISON PARK DRIVE, 4TH FLOOR PLAN SHEET L-2.3 LANDSCAPE PLAN GAITHERSBURG, MD 20878

MD 355 - CLARKSBURG

SHEET

SHARED USE PATH

74 of



+50

STABILIZATION

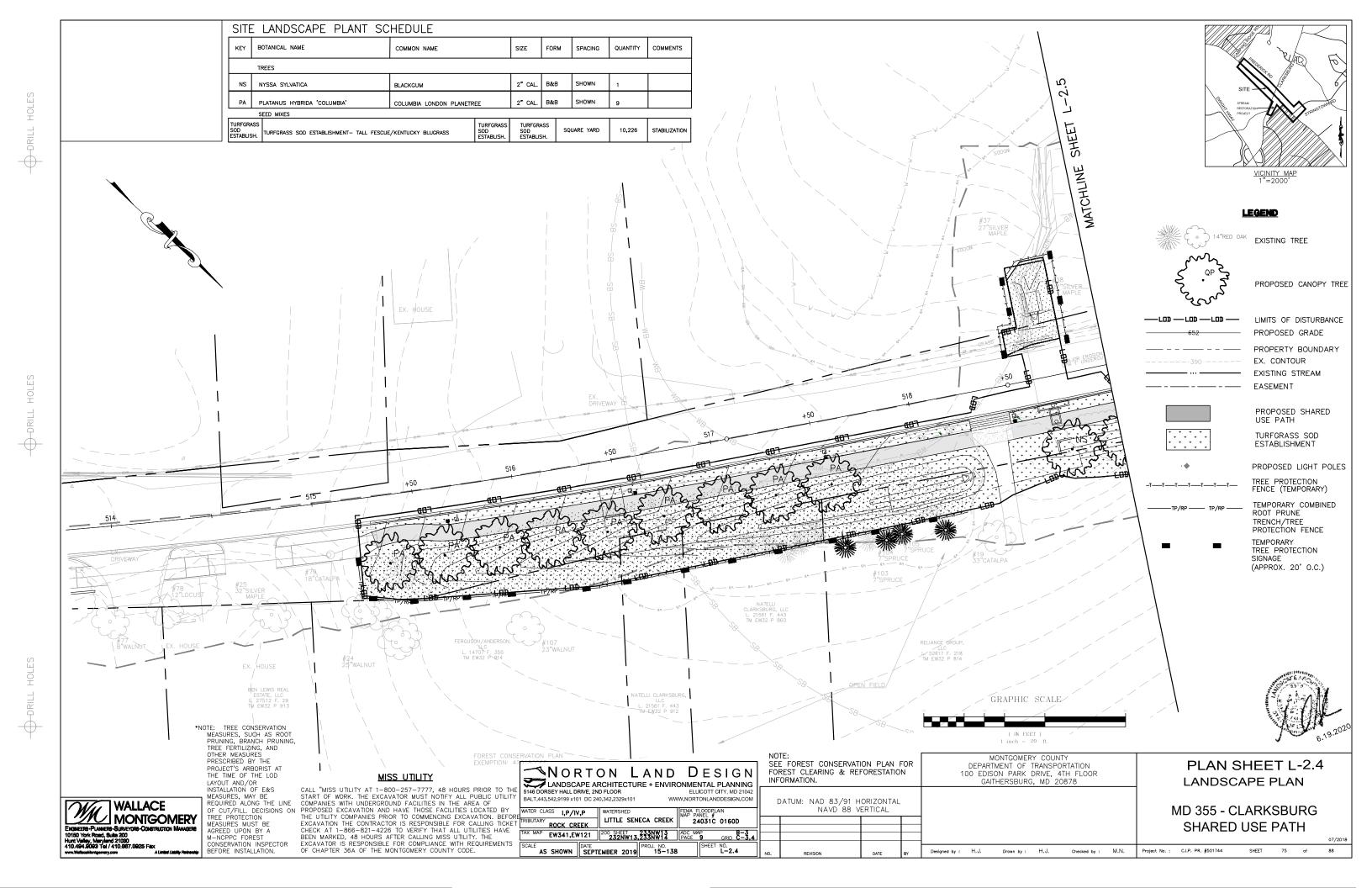
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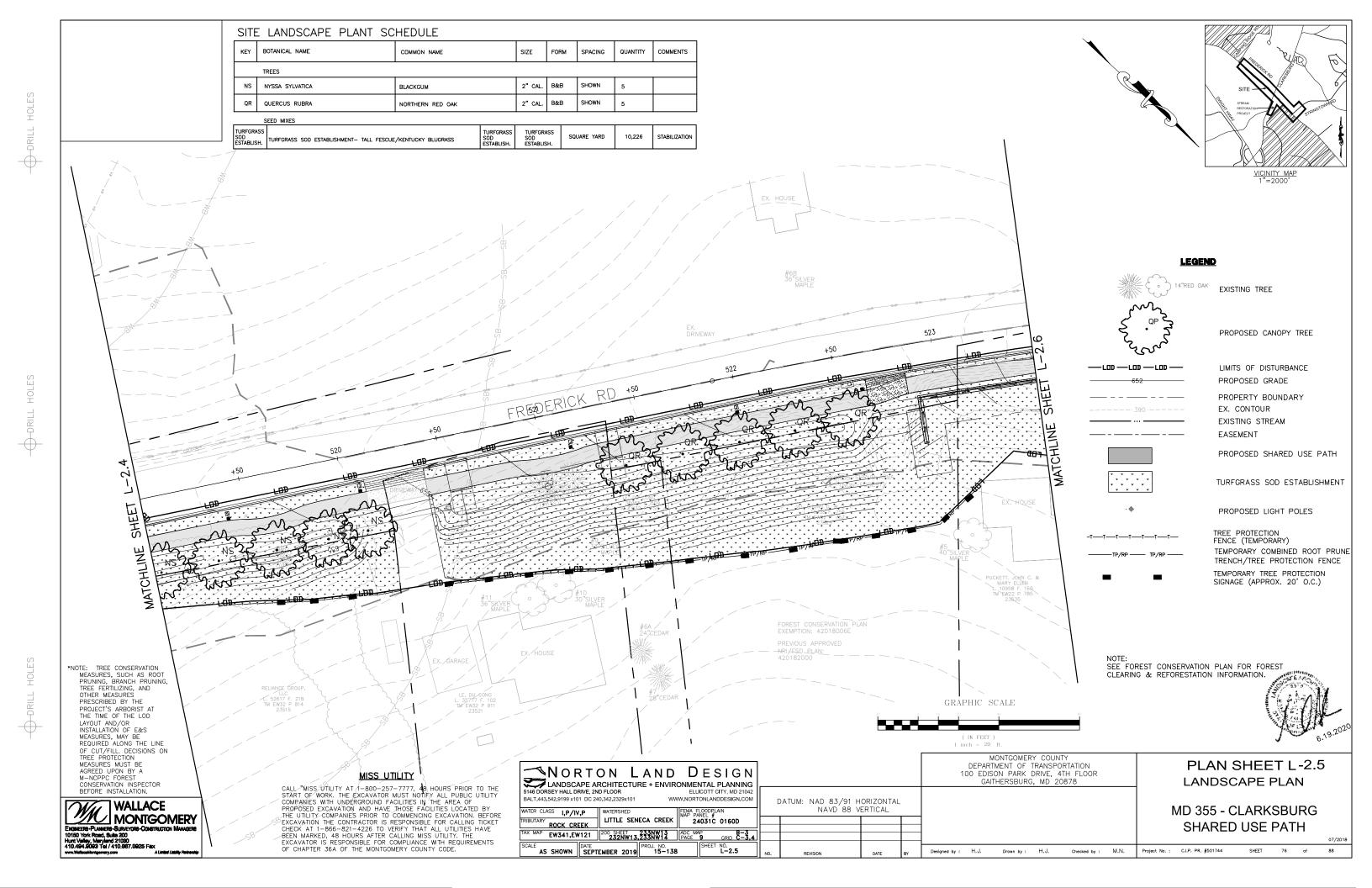
Drawn by: H.J.

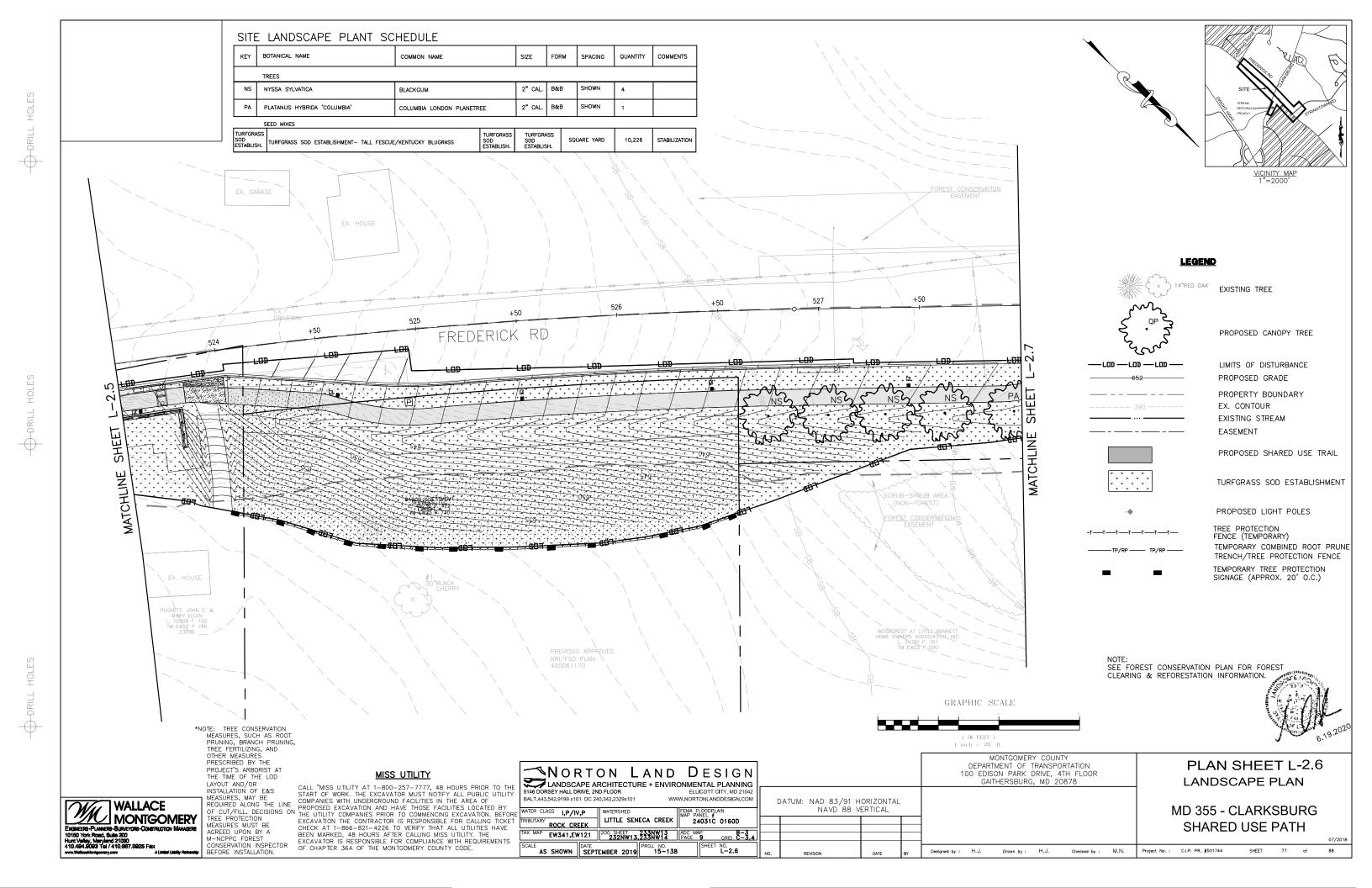
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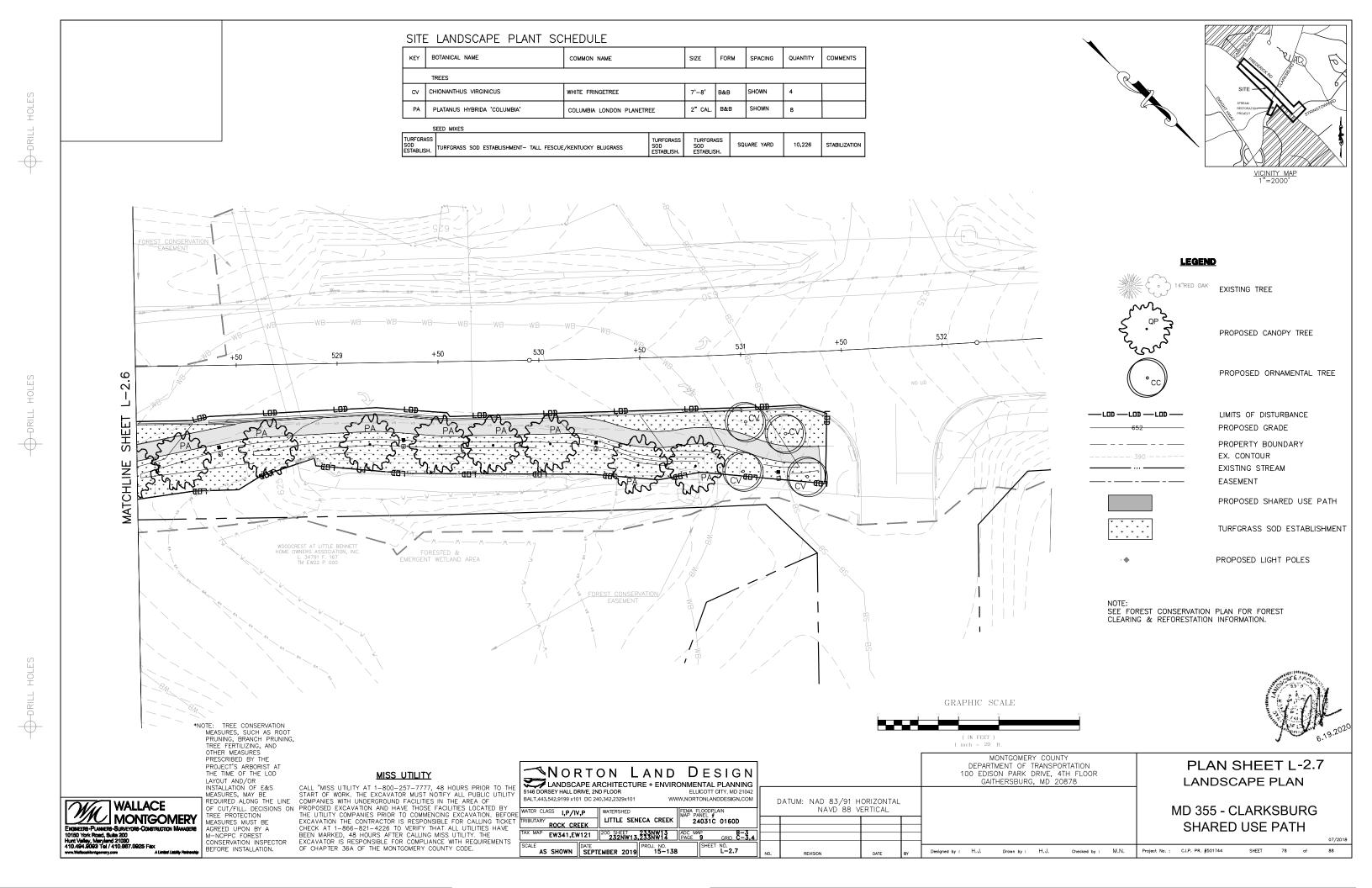
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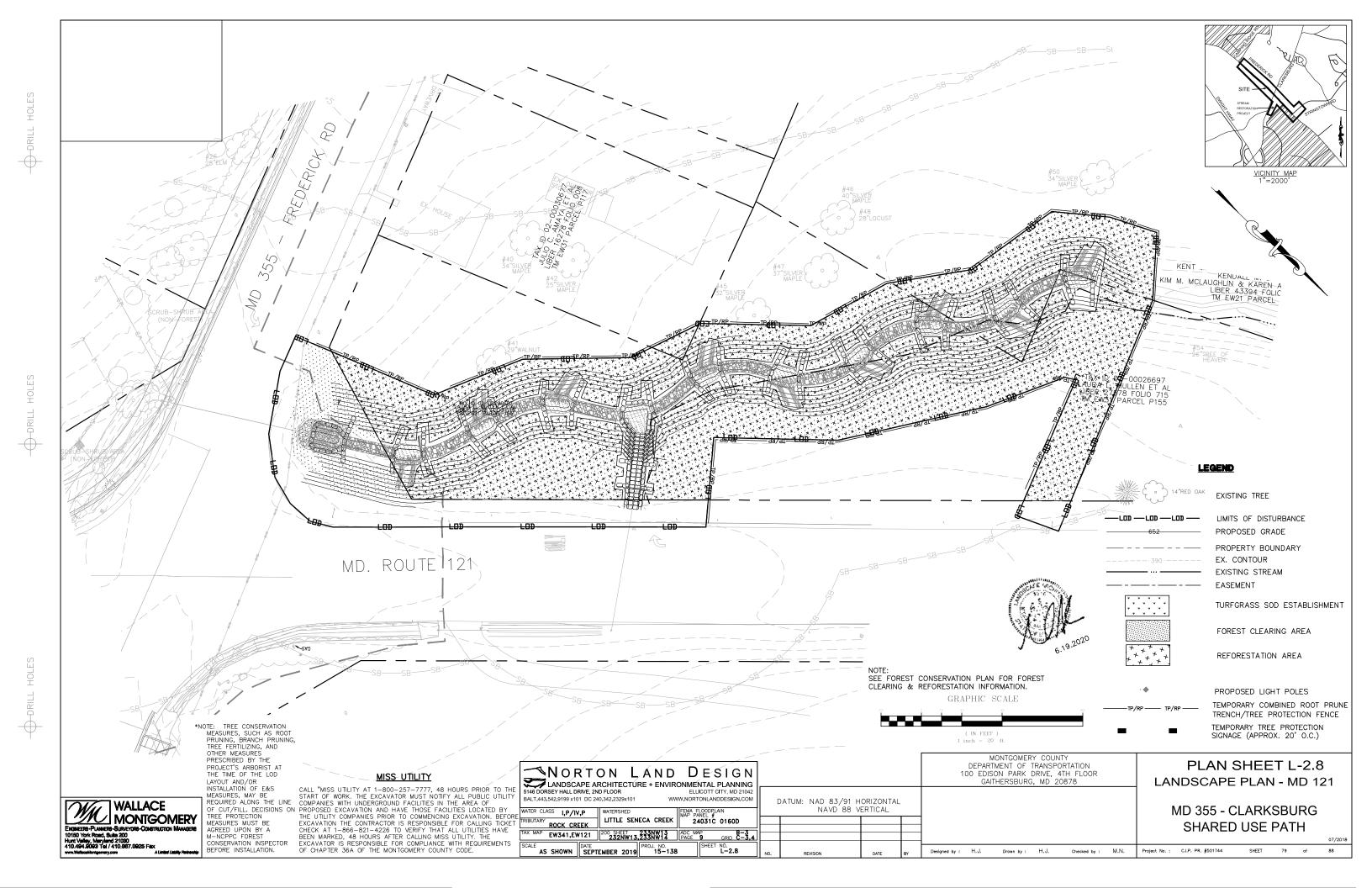
Project No. : C.I.P. PR. #501744













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

7.3 Erosion and Sediment Control Manager (ESCM):

7.3 ErOsian and activations could be 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

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

soil disturbance are protected from wind, rainfall and howing 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:

... roadway Favetitient 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.

Debris related to the demoliation 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:

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.

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

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.

MISS UTILITY

EXCAVATOR IS RESPONSIBLE FOR COMPLIANCE WITH REQUIREMENTS OF CHAPTER 36A OF THE MONTGOMERY COUNTY CODE.

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 atherwise.

3. Channels, Stormwader 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:

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

authorty.

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

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 poverments and 16-foot clearance above addway
povements; 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.

SITE LANDSCAPE PLANT SCHEDULE

KEY	BOTANICAL NAME	COMMON NAME	SIZE	FORM	SPACING	QUANTITY	COMMENTS			
	TREES									
cv	CHIONANTHUS VIRGINICUS	WHITE FRINGETREE	7'-8'	B&B	SHOWN	4				
NS	NYSSA SYLVATICA	BLACKGUM	2" CAL.	B&B	SHOWN	18				
PA	PLATANUS HYBRIDA 'COLUMBIA'	COLUMBIA LONDON PLANETREE	2" CAL.	B&B	SHOWN	18				
QR	QUERCUS RUBRA	NORTHERN RED OAK	2" CAL.	B&B	SHOWN	5				

TURFGRASS TURFGRASS TURFGRASS SQUARE YARD 10,226 STABILIZATION FGRASS SOD ESTABLISHMENT- TALL FESCUE/KENTUCKY BLUGRASS SOD ESTABLISH. SOD ESTABLISH.

べNorton Land Design

DATUM: NAD 83/91 HORIZONTAL NAVD 88 VERTICAL

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

07/2018

CALL "MISS UTILITY AT 1-800-257-7777, 48 HOURS PRIOR TO THE CALL MISS UTILITY AT 1-800-25/-////, 48 HOURS PRIOR TO THE START OF WORK. THE EXCAVATOR MUST NOTHY 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 EVENUATOR IS RESPONSIBLE FOR COMPUTATION OF WITH THE PERLIPPEMENTS. 5146 DORSEY HALL DRIVE, 2ND FLOOR WATER CLASS I,P/IV,P

LANDSCAPE ARCHITECTURE + ENVIRONMENTAL PLANNING BALT 443.542.9199 x101 DC 240.342.2329x101 WWW.NORTONLANDDESIGN.COI LITTLE SENECA CREEK MAP PANEL # 24031C 0160D ROCK CREEK MAP EW341,EW121 200 SHEET 233NW13 PAGE 9 AS SHOWN SEPTEMBER 2019 15-138 LS-2.9

Checked by : M.N. Project No. : C.I.P. PR. #501744 Designed by : H.J. Drawn by: H.J.

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OF CUT/FILL. DECISIONS ON TREE PROTECTION MEASURES MUST BE AGREED UPON BY A M-NCPPC FOREST CONSERVATION INSPECTOR BEFORE INSTALLATION.

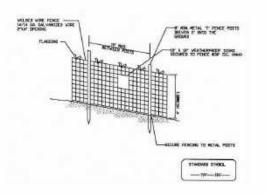
MEASURES, SUCH AS ROOT

*NOTE: TREE CONSERVATION
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OTHER MEASURES
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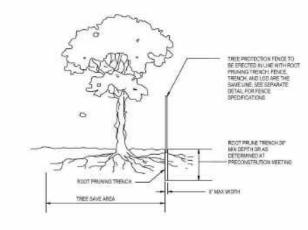


Tree Protection Fence Detail



- 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

Montgomery County Flamning Department . MIM-NCPPC

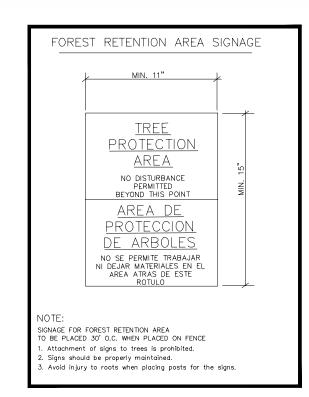


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- 5, ROOTS SHALL BE CLEANLY CUT USING VIBRATORY KNIFE OR OTHER ACCEPTABLE EQUIPMENT
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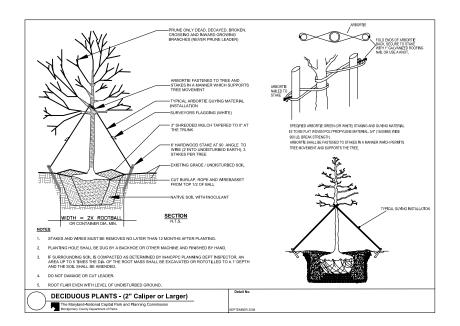
ROOT PRUNING DETAIL

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DATUM: NAD 83/91 HORIZONTAL NAVD 88 VERTICAL

PLAN SHEET L-2.10 LANDSCAPE - DETAILS

MD 355 - CLARKSBURG

SHARED USE PATH

SHEET 81 of

LANDSCAPE ARCHITECTURE + ENVIRONMENTAL PLANNING
5146 DORSEY HALL DRIVE, 2ND FLOOR
ELLICOTT CITY, MD 21042 BALT 443 542 9199 x101 DC 240 342 2329x101 WATER CLASS I,P/IV,P LITTLE SENECA CREEK ROCK CREEK

AS SHOWN SEPTEMBER 2019 PROJ. NO.

24031C 0160D TAX MAP EW341,EW121 200 SHEET 233NW13 ADC MAP PAGE 9

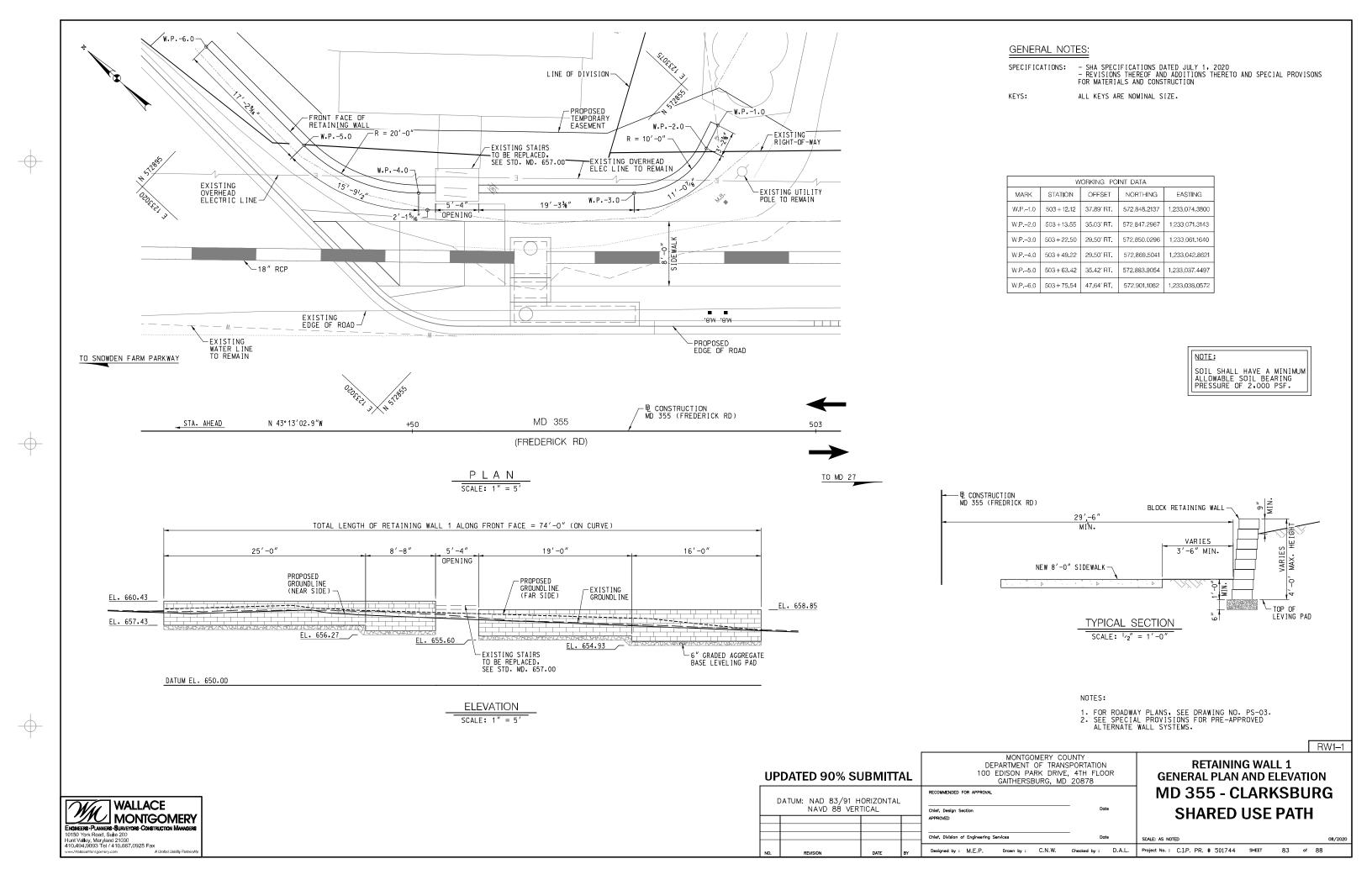
LS-2.10

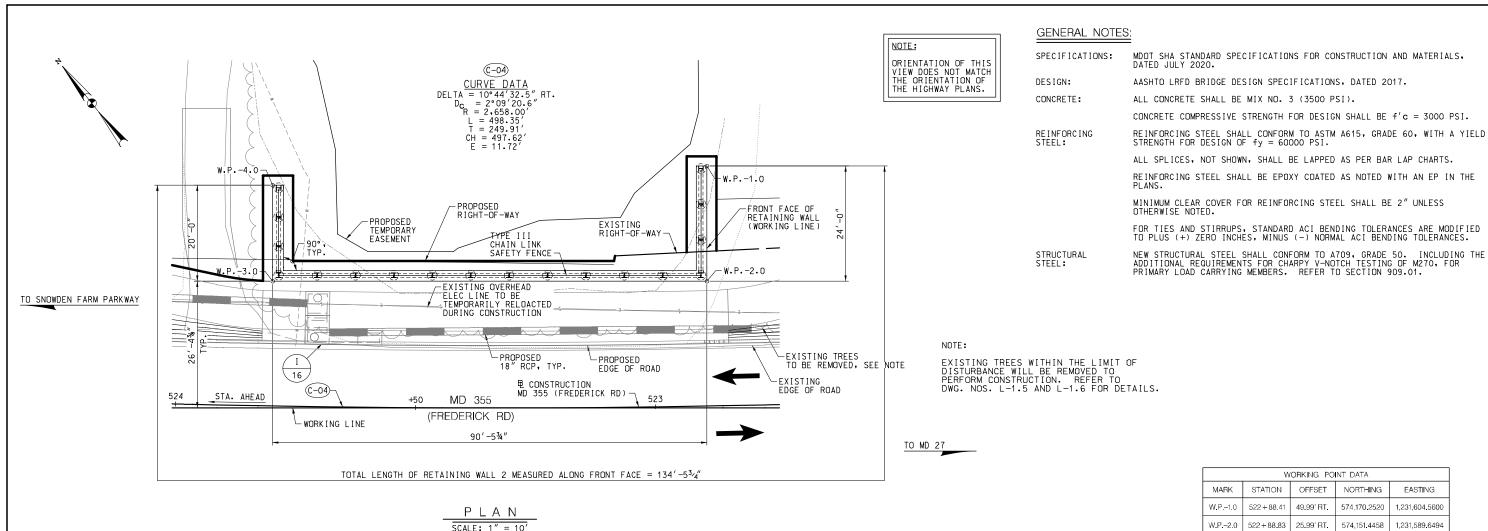
Checked by : M.N. Designed by : H.J. Drawn by: H.J.

DEPARTMENT OF TRANSPORTATION
100 EDISON PARK DRIVE, 4TH FLOOR

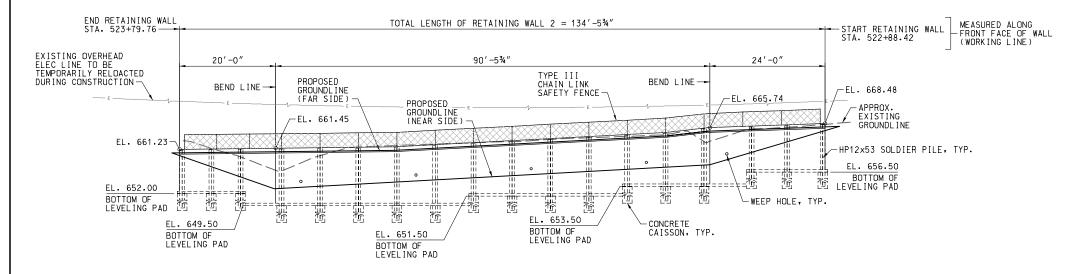
GAITHERSBURG, MD 20878

Project No. : C.I.P. PR. #501744





WORKING POINT DATA							
MARK	STATION	OFFSET	NORTHING	EASTING			
W.P1.0	522 + 88.41	49.99' RT.	574,170,2520	1,231,604.5600			
W.P2.0	522+88.83	25.99' RT.	574,151.4458	1,231,589.6494			
W.P3.0	523 + 80.21	25.99' RT.	574,207.6598	1,231,518.7486			
W.P4.0	523 + 80.56	45.98' RT.	574,223.3517	1,231,531.1741			



NOTES:

- FOR GEOMETRIC AND FOOTING LAYOUT, SEE DRAWING RW2-2.
- 2. FOR RETAINING WALL TYPICAL SECTION, SEE DRAWING RW2-3.

DATUM EL. 630.00

WALLACE MONTGOMERY MANAGERY Engineers - Planners - Surveyors - Construction 10150 York Road, Suite 200 Hunt Valley, Maryland 21030 410.494.9093 Tel / 410.667.0925 Fax

ELEVATION **UPDATED 90% SUBMITTAL** SCALE: 1" = 10'
(DEVELOPED ALONG FRONT FACE OF WALL)

DATUM: NAD 83/91 HORIZONTAL NAVD 88 VERTICAL APPROVED Designed by : M.F.P.

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

RECOMMENDED FOR APPROVA

C.N.W.

Checked by :

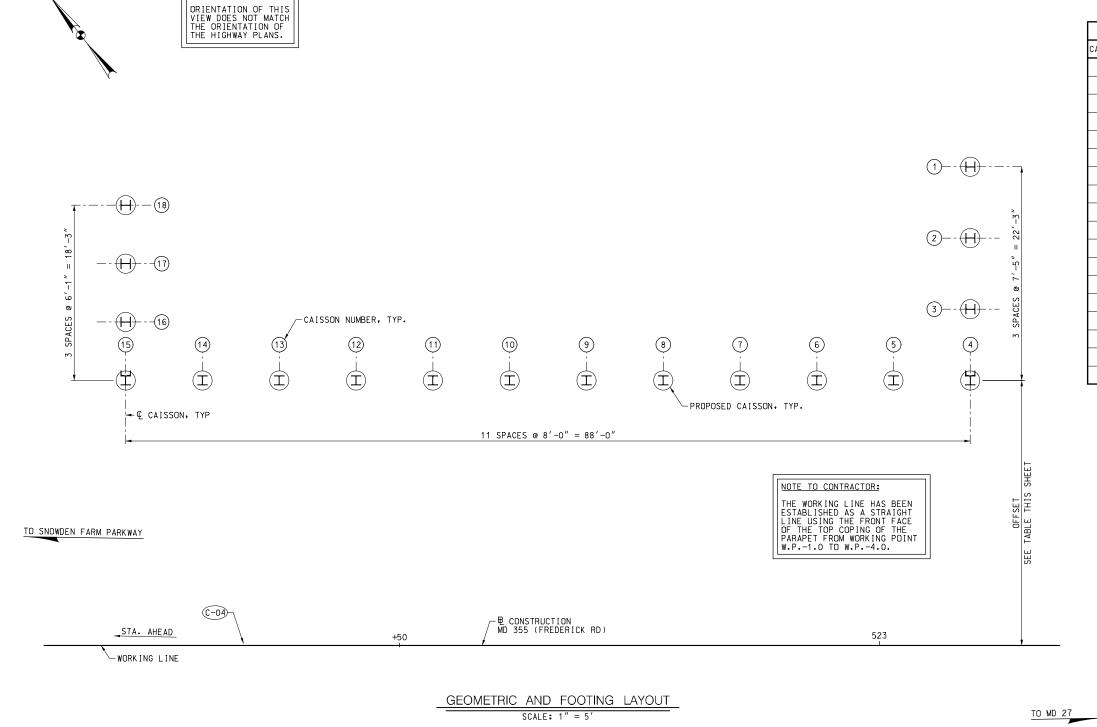
D.A.L.

RETAINING WALL 2 GENERAL PLAN AND ELEVATION MD 355 - CLARKSBURG SHARED USE PATH

RW2-1

SCALE: AS NOTED

Project No. : C,I,P, PR, # 501744 SHEET 84 of 88



CAISSON SCHEDULE CAISSON NUMBER STATION OFFSET WALL SECTION 49.50 RT. HP12x53 656.50 644.50 42.09 RT. 522+89.81 HP12x53 656.50 644.50 3 522+89.94 34.67 RT. HP12x53 656.50 644.50 27.25 RT. HP12x53 641.50 4 522+90.06 653.50 522+98.15 27.37 RT. HP12×53 653.50 641.50 523+06.23 27.47 RT. HP12x53 653.50 641.50 523+14.31 27.54 RT. HP12×53 651.50 639.50 523+22.40 27.59 RT. HP12x53 651.50 639.50 523+30.48 27.62 RT. HP12x53 651.50 639.50 10 523+38.56 27.62 RT. HP12x53 651.50 639.50 27.59 RT. 11 523+46.65 HP12x53 649.50 637,50 523+54.73 27.54 RT. HP12x53 649.50 637.50 12 13 523+62.82 27.47 RT. HP12×53 649.50 637.50 523+70.90 27.37 RT. HP12x53 649.50 637.50 15 523+78.98 27.25 RT. HP12×53 649.50 637.50 16 523+79.11 33.33 RT. HP12x53 652.00 640.00 17 523+79.24 39.42 RT. HP12x53 652.00 640.00 523+79.38 45.50 RT. HP12x53 652.00 640.00 18

CAISSON INSTALLATION NOTES:

- 1. EXCAVATED SHAFTS FOR CAISSONS BY AUGURING TO A MINIMUM EMBEDMENT OF 12'-0", WITH A MINIMUM ROCK SOCKET OF 5'-0". SEE SECTION ON SHEET RW1-3. ROCK SHALL BE DEFINED AS MATERIAL THAT CAN NOT BE DRILLED WITH A CMF 75 DRILL RIG (OR EQUIVALENT) AND HOLLOW STEM AUGERS. WHEN ROCK IS ENCOUNTERED, CORE-DRILLING PROCEDURES WILL
- 2. 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.
- 3. WITHDRAW CASINGS PREGRESSIVELY AS CONCRETE IS PLACED.
- 4. HOLES FOR SUCCESSIVE DRILLED SHAFTS SHALL NOT BE EXCAVATED UNTIL ADJACENT SHAFTS ARE FILLED WITH CONCRTE AND ALLOWED TO SET.
- 5. DRILLED SHAFT TOLERANCES SHALL BE IN ACCORDANCE WITH SECTION 412.

NOTE:

FOR GENERAL PLAN AND ELEVATION, SEE DRAWING RW2-1

RW2-2

(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:

UPDATED 90% SUBMITTAL

RECOMMENDED FOR APPROVAL DATUM: NAD 83/91 HORIZONTAL NAVD 88 VERTICAL Drawn by : C.N.W. Checked by : Designed by : M.F.P.

RETAINING WALL 2 GEOMETRIC AND FOOTING LAYOUT MD 355 - CLARKSBURG **SHARED USE PATH**

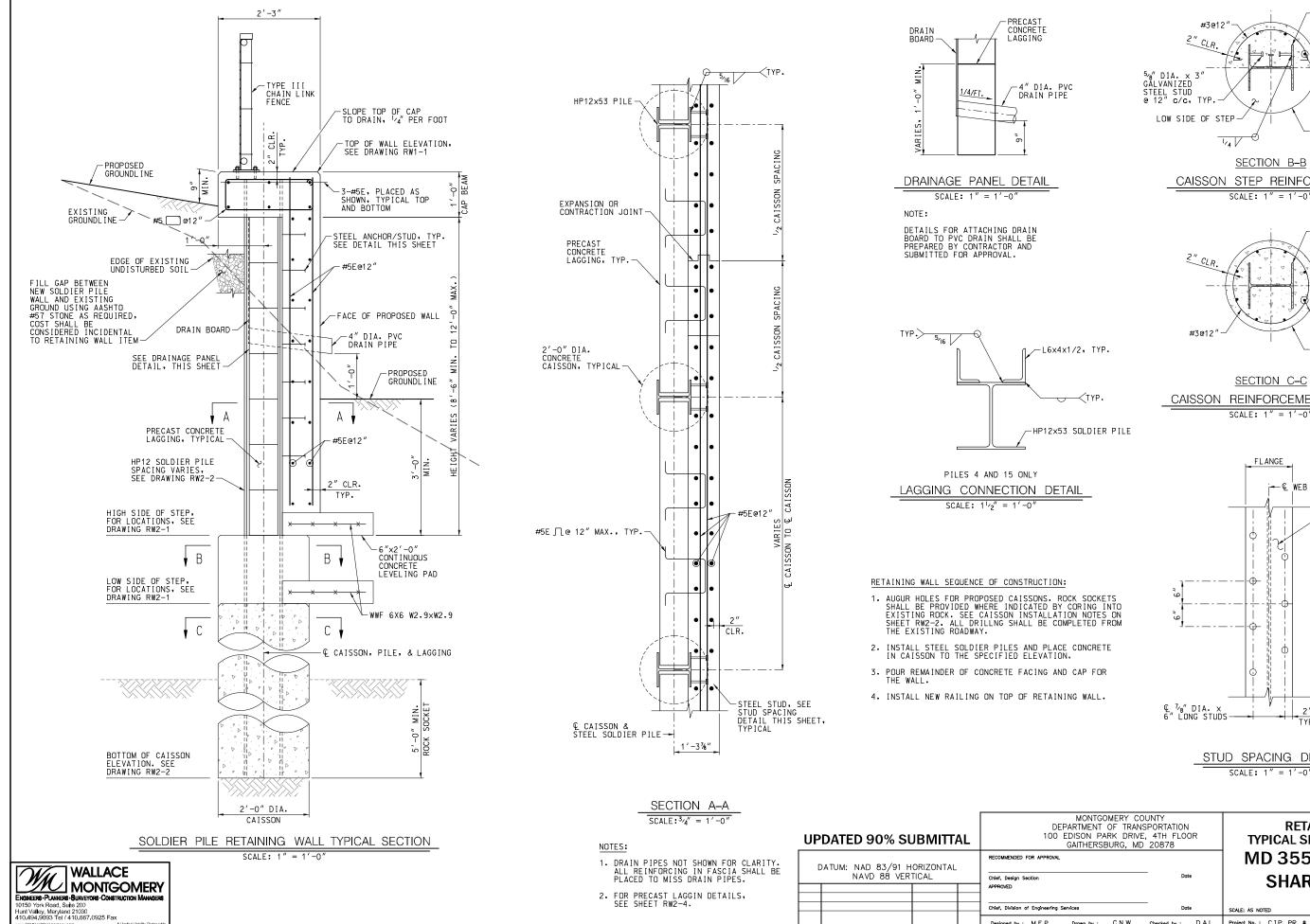
SCALE: AS NOTED D.A.L.

Project No. : C,I,P, PR, # 501744 SHEET 85 of 88

WALLACE MONTGOMERY MANAGER Engineers - Planners - Surveyors - Construction 10150 York Road, Suite 200 Hunt Valley, Meryland 21030 410.494.9093 Tel / 410.667.0925 Fax www.WallacedMontgomery.com

DEPARTMENT OF TRANSPORTATION

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

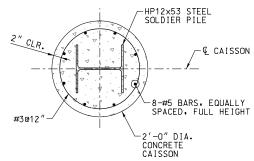


-HP12x53 STEEL SOLDIER PILE -€ CAISSON -#5 TO MATCH WITH #5 VERTICAL BARS IN FULL CAISSON SECTION BELOW STEP, TYPICAL -2'-0" DIA. CONCRETE

SECTION B-B

CAISSON STEP REINFORCEMENT

SCALE: 1" = 1'-0"



CAISSON REINFORCEMENT DETAIL

FLANGE FRONT FACE OF STEEL SOLDIER PILE

STUD SPACING DETAIL

C.N.W. Checked by : D.A.L.

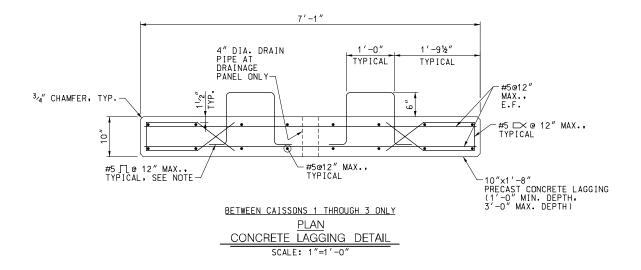
Designed by : M.F.P.

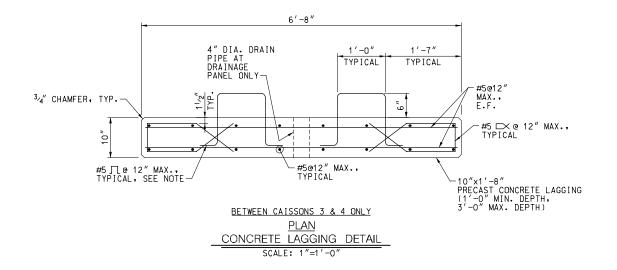
RETAINING WALL 2 TYPICAL SECTION AND DETAILS MD 355 - CLARKSBURG SHARED USE PATH

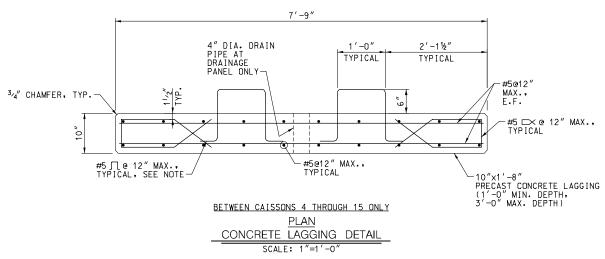
RW2-3

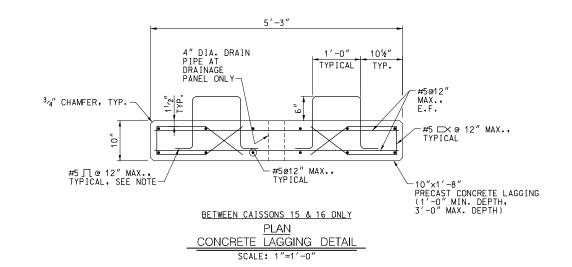
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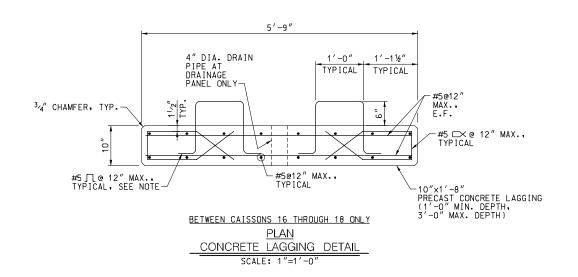
Project No.: C.I.P. PR. # 501744 SHEET 86 of 88











NOTE:

STIRRUPS SHALL NOT BE USED IN LAGGING AT CONTRACTION AND EXPANSION JOINT LOCATIONS.

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

PARCOMMENDED FOR APPROVAL

RECOMMENDED FOR APPROVAL

Chief, Division of Engineering Services

Date

MONTGOMERY COUNTY
DEPARTMENT OF TRANSPORTATION
RETAINING WALL 2
PRECAST LAGGING DETAILS
MD 355 - CLARKSBURG
SHARED USE PATH

Chief, Division of Engineering Services

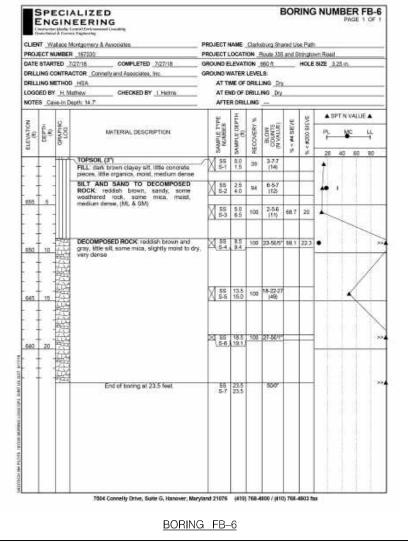
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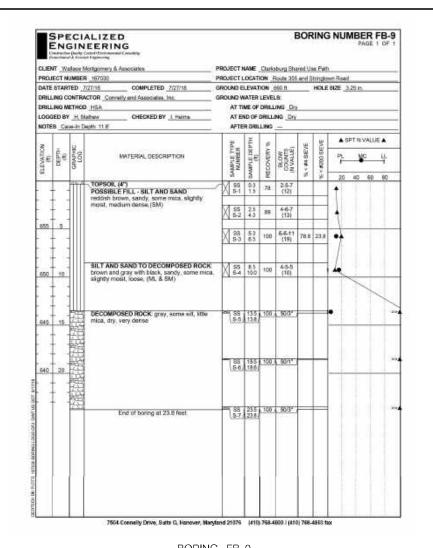
Date

Designed by: M.E.P. Drown by: C.N.W. Checked by: D.A.L. Project No.: C.I.P. PR. # 501744 SHEET 87 of 88

RW2-4

WALLACE MONTGOMERY
ENGREDS-PLANNERS-BURVEYORS-CONSTRUCTION MANAGERS
10150 York Road, Suide 200
Hunt Valley, Maryland 21030
410,494,9093 Tel / 410,667,0925 Fax
www.vklaulochorigomery.com

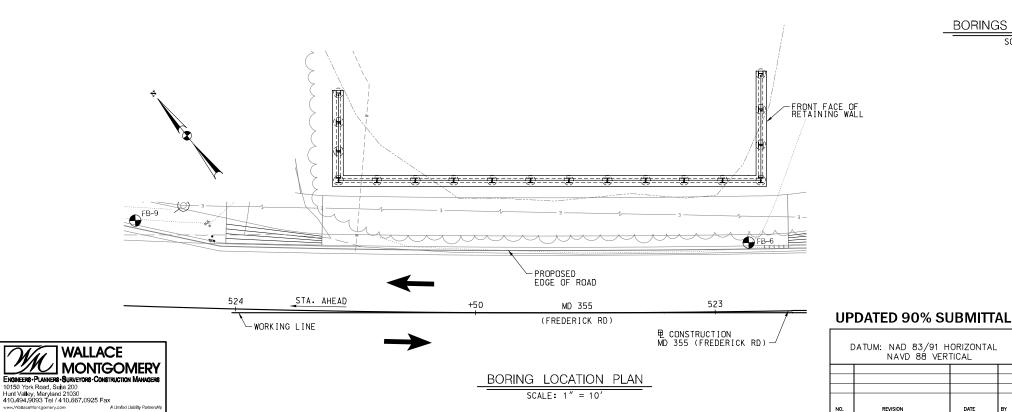




DATUM EL. 620.00

BORING FB-9

DATUM EL. 620.00



BORINGS AND DRIVE TESTS SCALE: 1" = 5'

Designed by : M.F.P.

BORING LOCATION DATA								
BORING NUMBER	STATION	OFFSET	NORTHING	EASTING	DEPTH (FT)			
FB-6	522+92.83	14.33′ RT.	574,144.6029	1,231,579.4088	25.00			
FB-9	524+21.47	17.84' RT.	574,227.6146	1,231,482,1133	25.00			

MITTAL

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

Date

Chief. Division of Engineering Services

Date

SCALE: AS NOTED

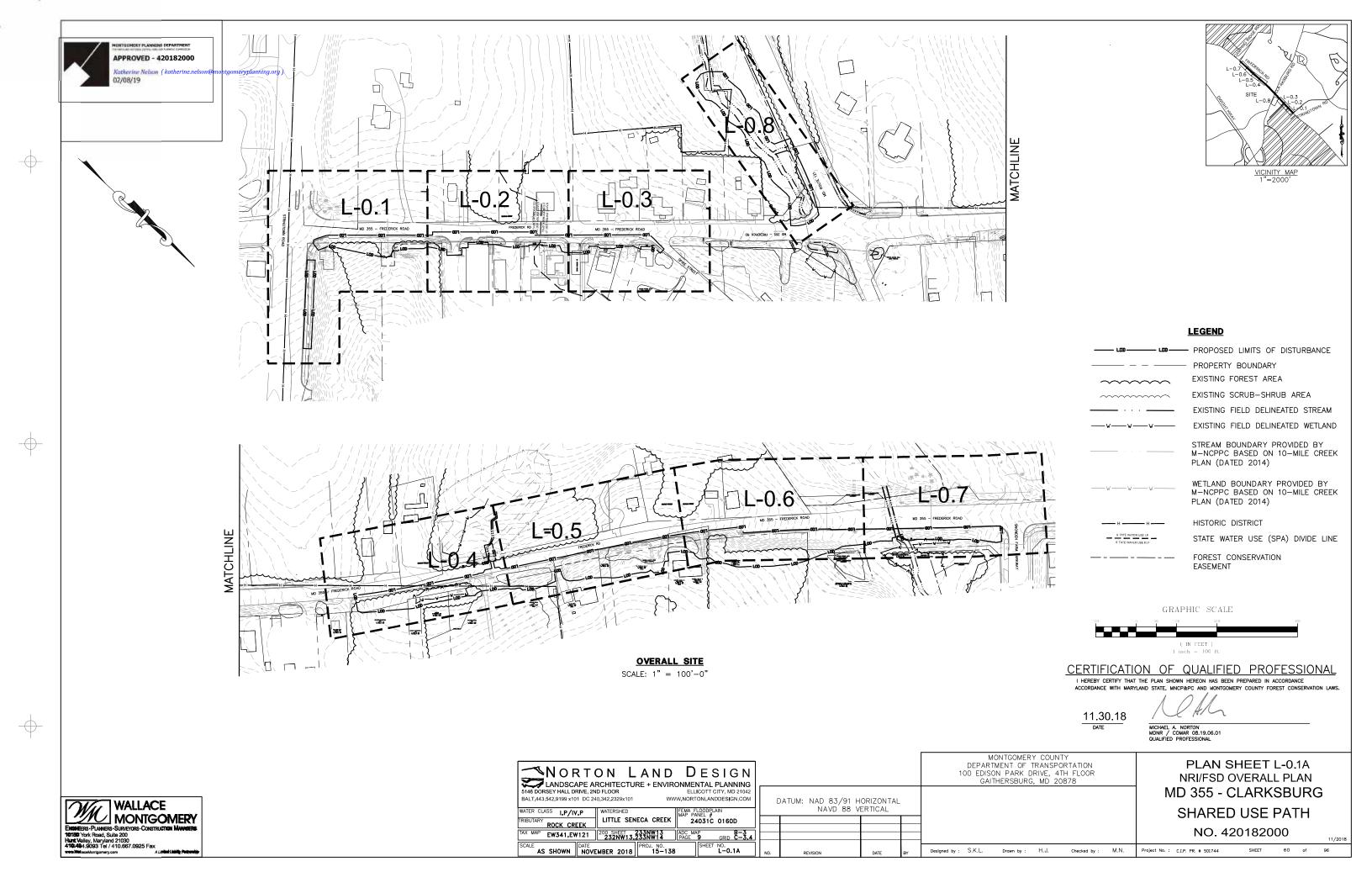
REW2—5

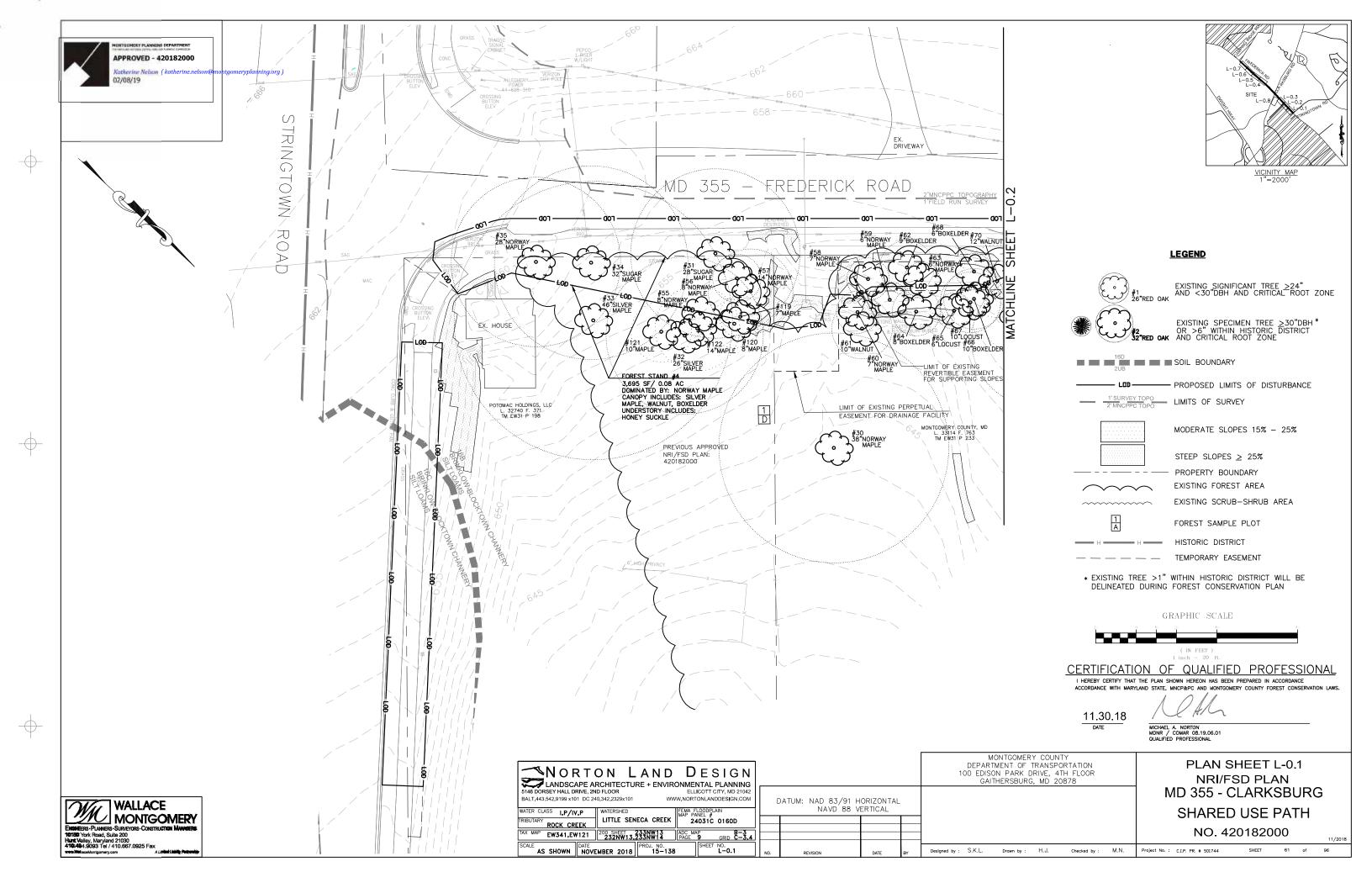
BORING LOCATION PLAN
MD 355 - CLARKSBURG
SHARED USE PATH

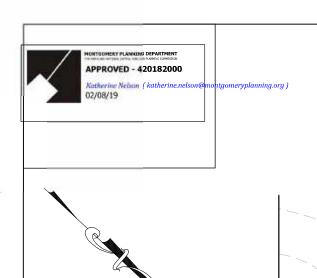
08/2020

Drawn by : C.N.W. Checked by : D.A.L.

Project No. : C.I.P. PR, # 501744 SHEET 88 of 88

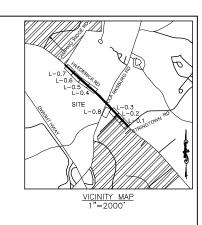






EX HOUSE

DRIVEWAY



LEGEND

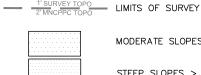
EXISTING SIGNIFICANT TREE >24" AND <30"DBH AND CRITICAL ROOT ZONE



EXISTING SPECIMEN TREE >30"DBH *
OR >6" WITHIN HISTORIC DISTRICT
32"RED OAK AND CRITICAL ROOT ZONE



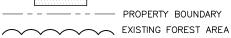
- PROPOSED LIMITS OF DISTURBANCE

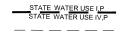


MODERATE SLOPES 15% - 25%



STEEP SLOPES ≥ 25%





STATE WATER USE (SPA) DIVIDE LINE

TEMPORARY EASEMENT

* EXISTING TREE >1" WITHIN HISTORIC DISTRICT WILL BE DELINEATED DURING FOREST CONSERVATION PLAN

CERTIFICATION OF QUALIFIED PROFESSIONAL

I HEREBY CERTIFY THAT THE PLAN SHOWN HEREON HAS BEEN PREPARED IN ACCORDANCE

11.30.18

Checked by :

M.N.

MONTGOMERY COUNTY
DEPARTMENT OF TRANSPORTATION

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

H.J.

Designed by : S.K.L.

MICHAEL A. NORTON MDNR / COMAR 08.19.06.01 QUALIFIED PROFESSIONAL

Project No. : C.I.P. PR. # 501744

NORTON LAND DESIGN
LANDSCAPE ARCHITECTURE + ENVIRONMENTAL PLANNING
ELLICOTT CITY, ND 21042 WWW.NORTONLANDDESIGN.COM WATER CLASS I,P/IV,P FEMA FLOODPLAIN MAP PANEL # 24031C 0160D LITTLE SENECA CREEK RIBUTARY ROCK CREEK TAX MAP EW341,EW121 200 SHEET 233NW13 PAGE S B-3 GRID C-3,4

L-0.2

AS SHOWN NOVEMBER 2018 PROJ. NO. 15-138

GRAPHIC SCALE

(IN FEET) 1 inch = 20 ft.

DATUM: NAD 83/91 HORIZONTAL NAVD 88 VERTICAL

EX. HOUSE

PLAN SHEET L-0.2 NRI/FSD PLAN

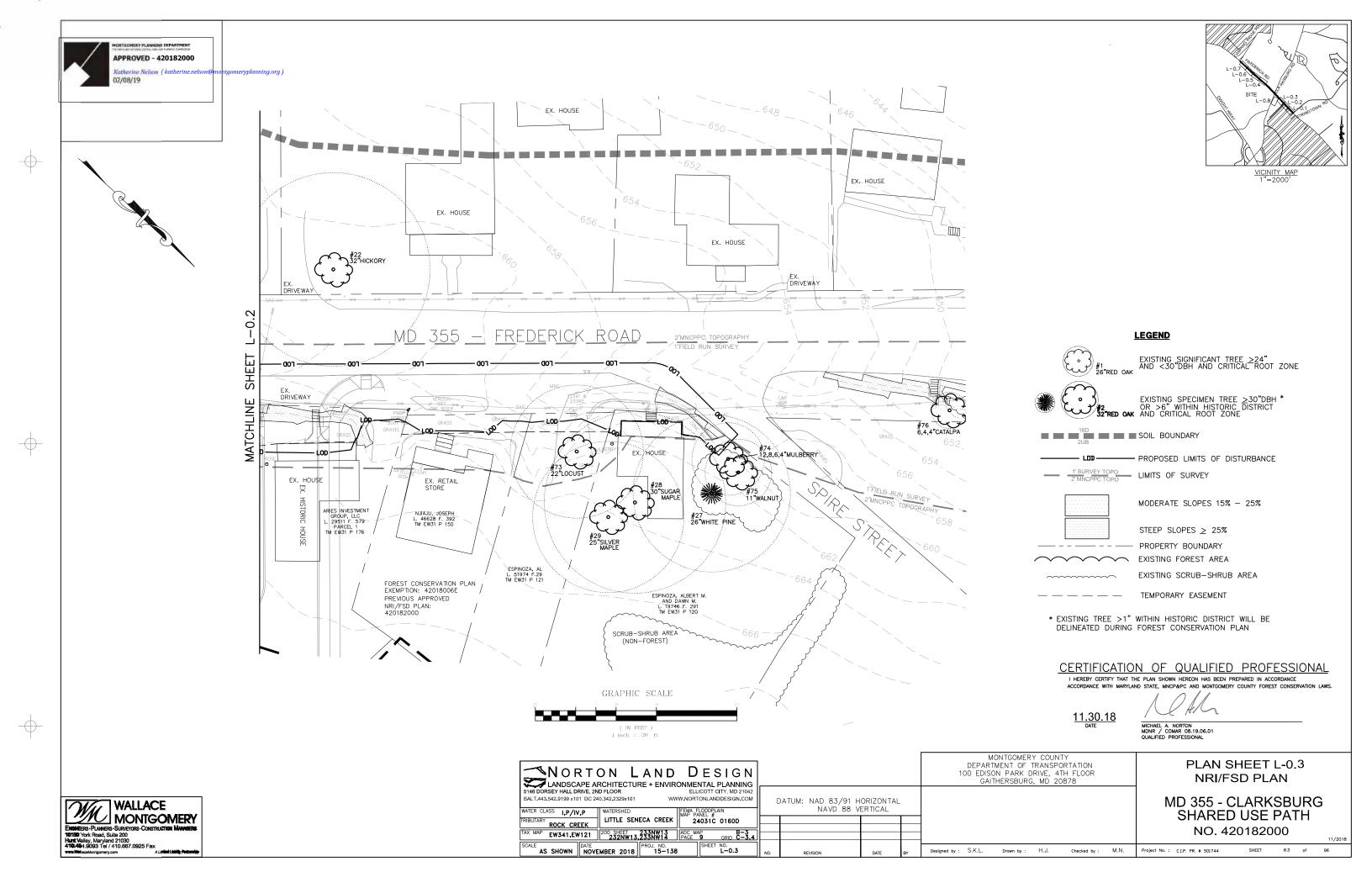
MD 355 - CLARKSBURG SHARED USE PATH

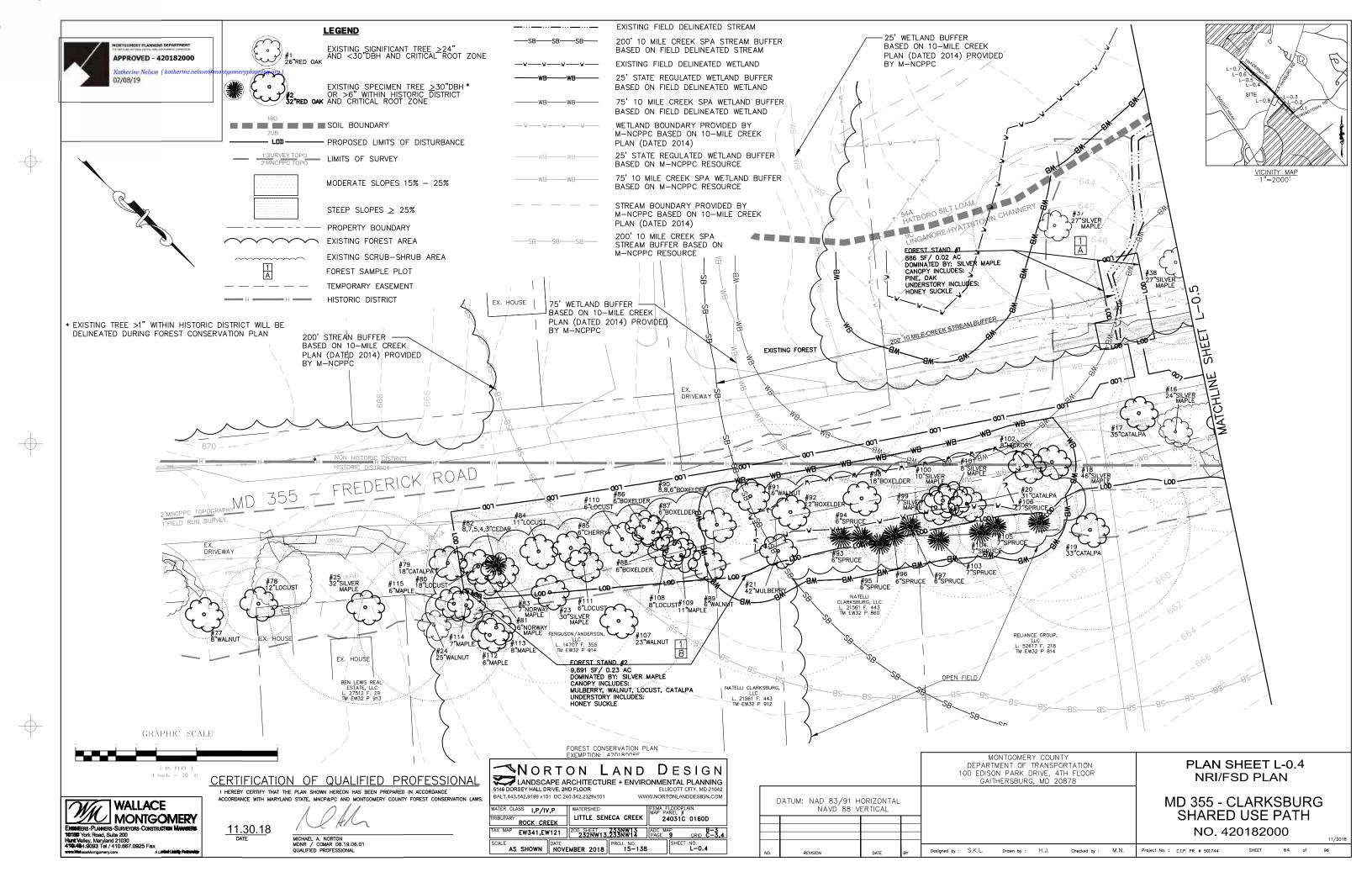
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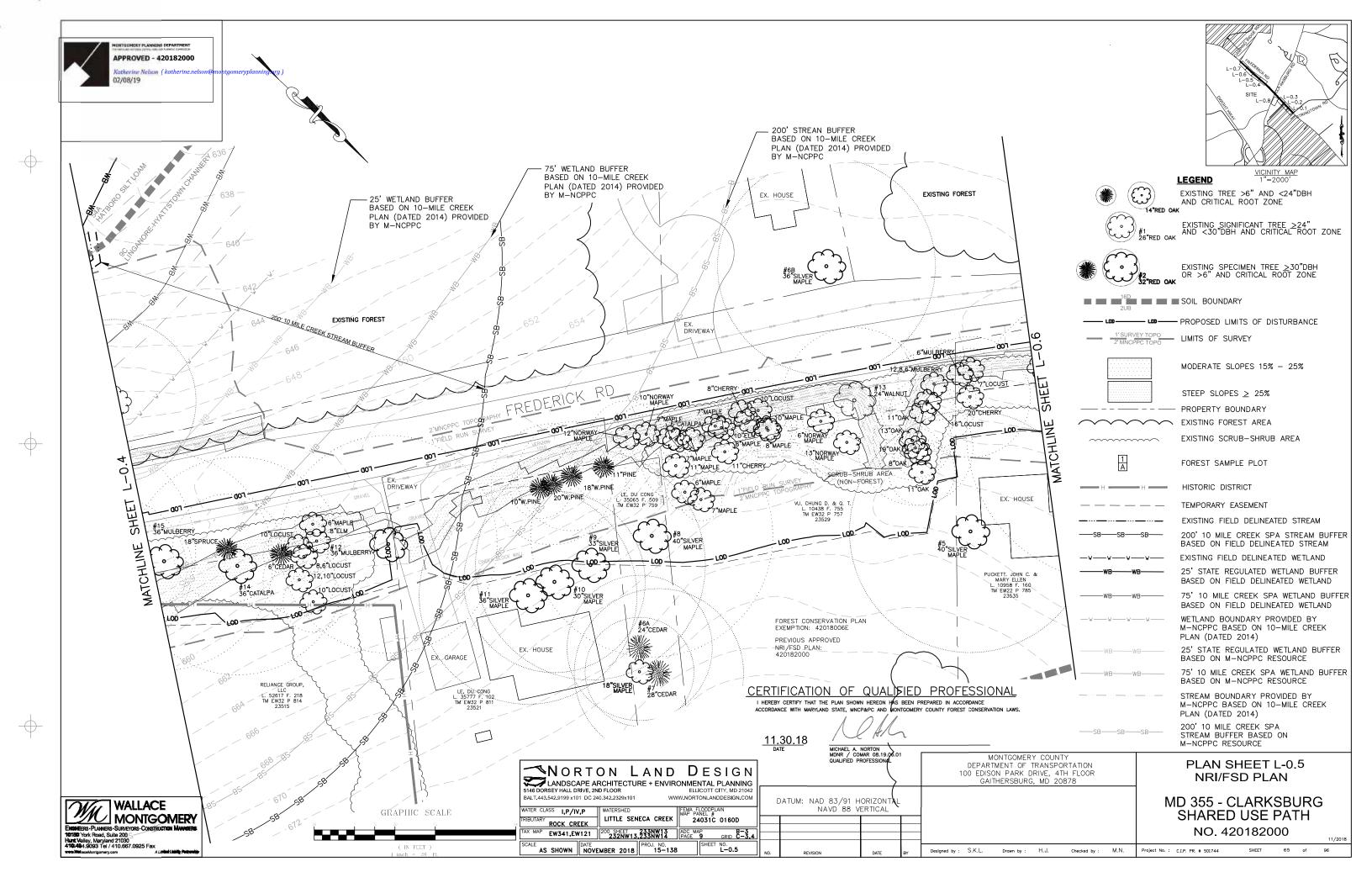


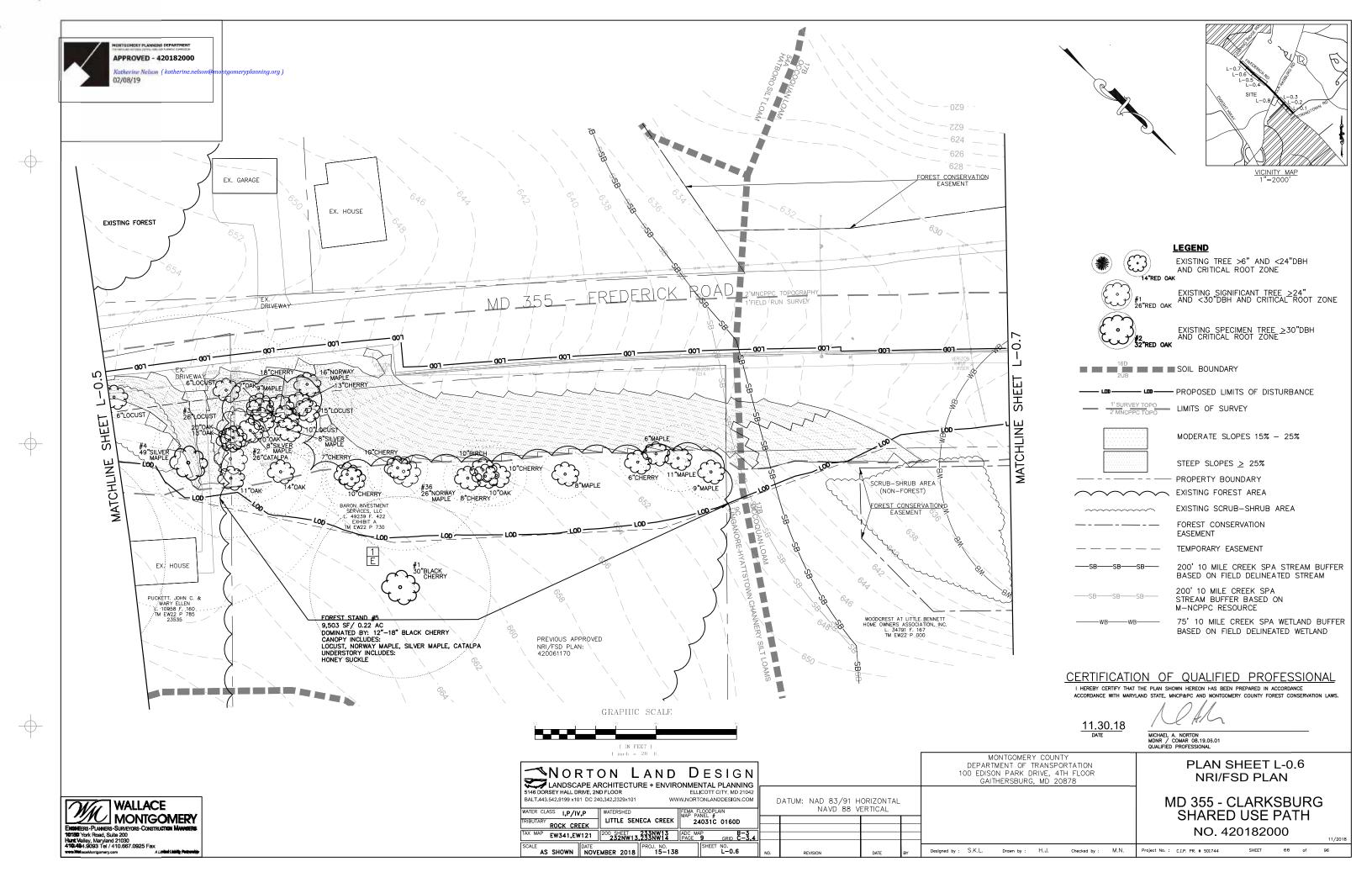
FREDERICK RD EX. DRIVEWAY_M EX. DRIVEWAY MATCHLINE MODJARRAD, AMIR H., ETAL. L. 24057 F. 61 TM EW31 P 177 UNDER ARIES INVESTMENT
GROUP, LLC
L 2951, LLC
PARCEL
I M EWSI P 176
THE CONSTRUCTION EX. RETAIL STORE & COMMERCIAL BUFFINGTON ENTERPRISES II, LLC L. 33697 F. 552 TM EW31 P N200 PARKING FOREST CONSERVATION PLAN EXEMPTIONS: 42015229E PREVIOUS APPROVED PARKING NRI/FSD PLAN: 420182000

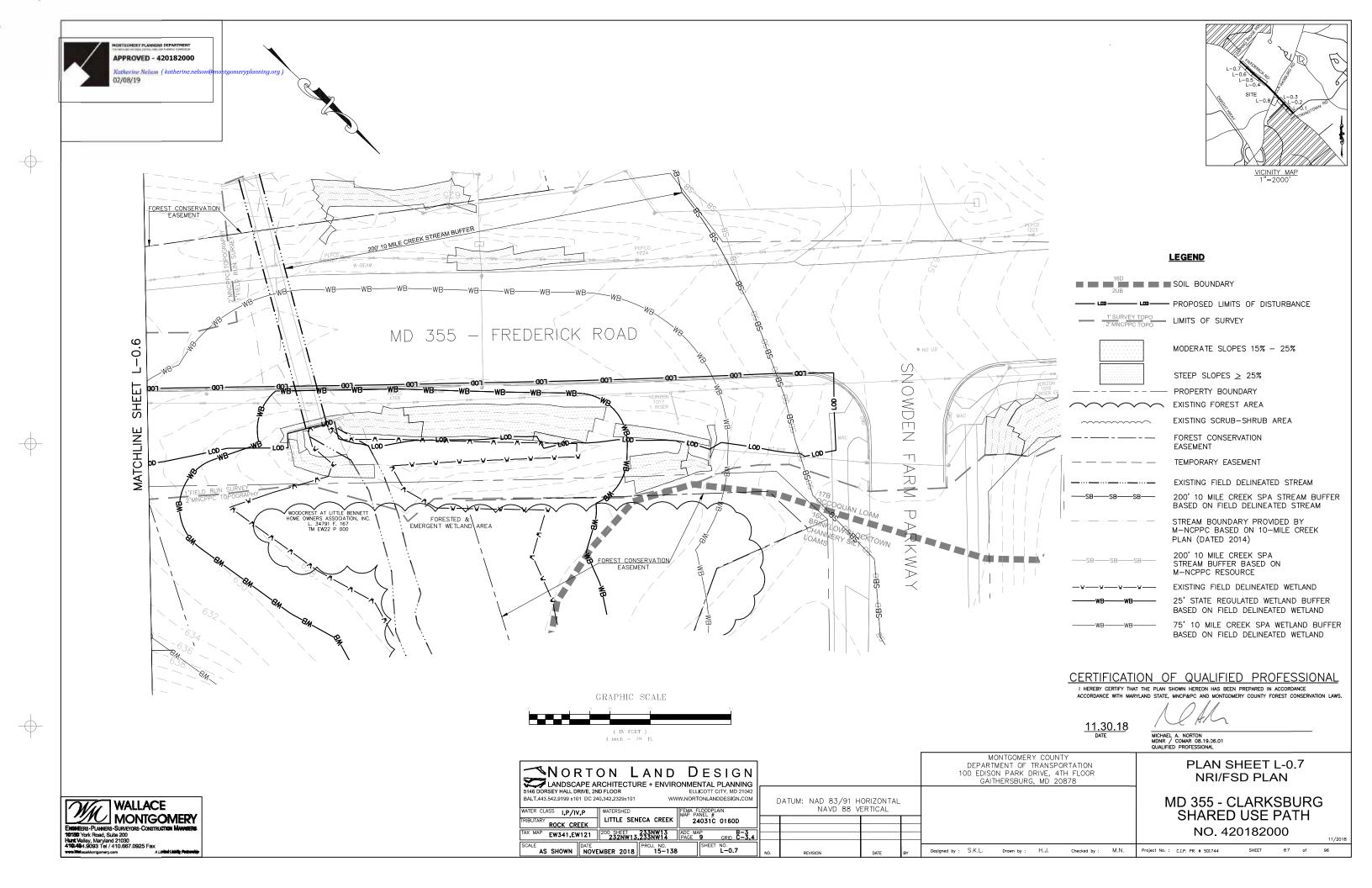
EXISTING FOREST

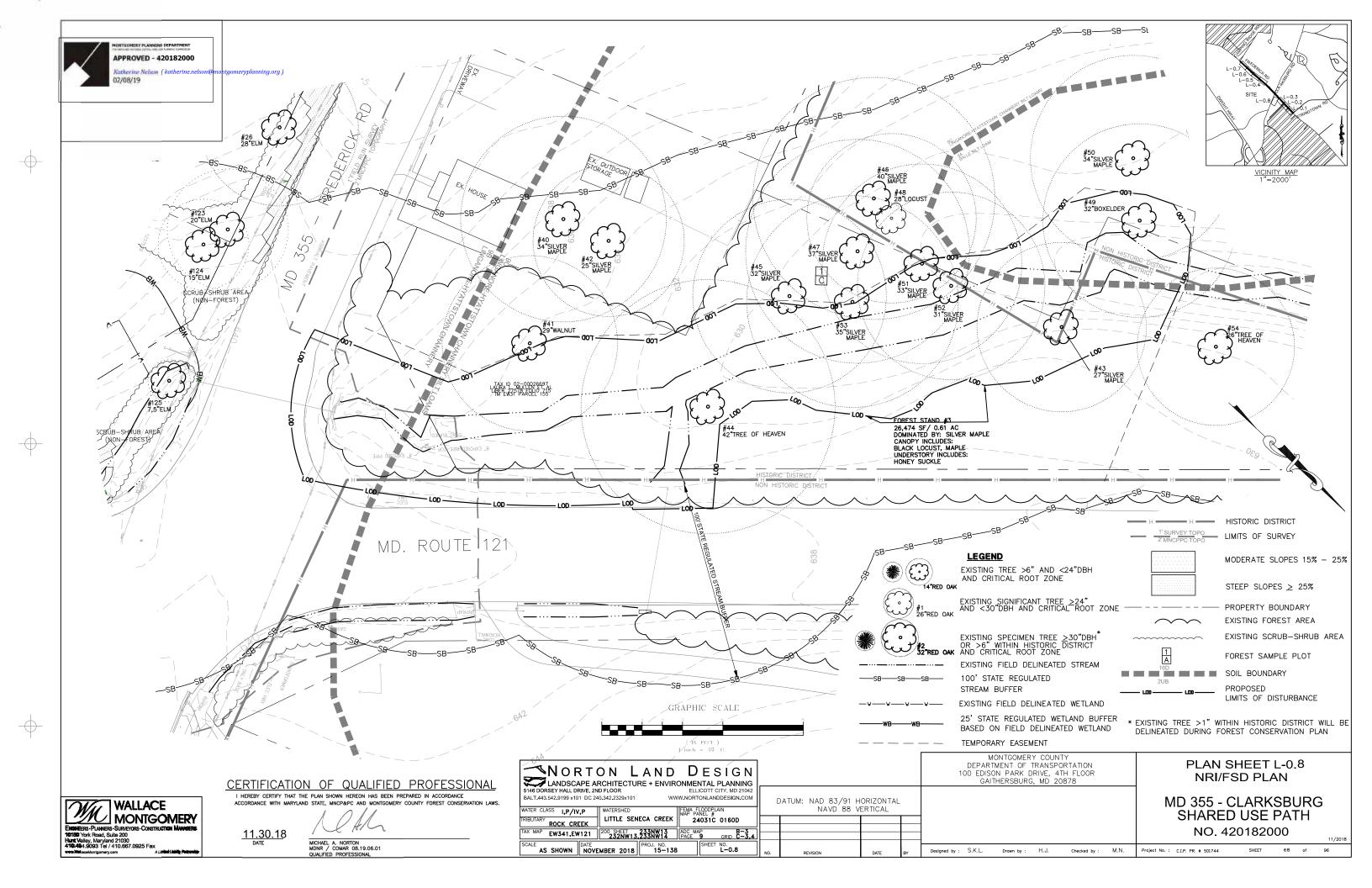














Tine Species	24" Significant & 30" Specim Species	DB.H	mary witin 100' of Critical Root Zone		Inventory in Right-of-way Comments
# (Scientific Name) 1 PRUNUS SEROTRA	(Common Name) BLACK CHERRY	(inches) 30,17,14	(SF) 6362	Condition	VINE SROKEN BRANCHES: SPLIT (\$2)
I DATALIW SPECOSA I ROSMA PSEUDWIGAGE	GATALINA IN ACKLOCUST	26	4770 4770	POOR	VINE COVERED, DEAD BRANCHES VINE COVERED, DEAD BRANCHES
4 ACER SACCHARINUM	SILVER NAPLE	40	16972	FAIR	VINE COVERED
かった原動を開発され	SALVER MAPLE DASTERN RED CEDAR	24 24	11310 2072	FAIR	
48 ACER SACCHARINUM 7 JUNETUG V ROMANA	BILVER MAPLE EASTERN RED CEDAR	36 28	9161 5542	GOOD GOOD	SKJI @ 3'
8 ACER SACCHARINUM 9 ACER SACCHARINUM	SILVER MAPLE SILVER MAPLE	40 31	11310 7690	P00R 9000	VINE COVERED, DEAD BRANCHES SPLIT (E. Y
18 ACER SACCHARINUM 11 ACER SACCHARINUM	SILVER MAPLE	30	6362	9000	
12 MORUS SF.	MULBERRY NF.	м	9101	POCR	TRIME CAHAGED
15 JUGLANS NICHA 14 GATALPA SPECIOSA	BLACK WALNUT CATALPA	36	4072 8101	FAIR	NA_JOR PRUNING, CHY/ 18" LEADER SPLITS @ 2"
15 MORUS EP. 16 ACER SACCHARSUM	MULBERRY SP.	24	0181 4073	POOR	PRINCIPLE CADER, VINES TRUNK DAMAGED, BROKEN LEADER DEAD SRAVID-ES
17 CATALFA SPECIOSA	CATALPA	36	8659 14957	POOR	VINE COVERED, PRUNING, OHW MAJOR PRUNING, OHW
19 GATALPA SPECIOSA	CATALPA CATALPA	33	7600	FAIR	MAIN LEADER PRUNED, HEAVY PRUNING CHIN
26 CATALPA SPECIOSA 21 MORUS SP.	CATALPA MILERRY SP.	20 60	12469	FAIR	SPLIT @ 5,30" LEADER, 42" LEADER
22 CARYA SP. 21 ACER SACCHARINUM	HICKORY SP. SILVER MAPLE	32 38	1539	GOOD POOR	TRUSK CAMAGED, VINE, STOKEN BRANCHES
24 JUGLANS HIGHA	BLADK WALNUT	25	441B 7238	FAIR.	VINES MIDDLE LEADER PRUNED NE' UP, OHW
25 ACER SACCHARINUM 28 ULMUS SIR	SILVER MAPLE ILM	28	6642	9000	OHW
27 PHUS STROBUS 29 ACER BACCHARINAM	VINITE PRE BUGAR MAPLE	30	417H 6062	64R 9000	VINES BROKEN BRANCHES SPLITS @ ST
29 ACER SACCHARNUM 30 ACER PLATAHORES	BEVER MARLE NORWAY MARLE	15	4418	9000 POOR	OFLITS @ IF, BROHEN BRANCHES, VINES, LITTLE GROWTH
21 ACER BACCHARIM	SUSAR MAPLE	28	8842	POOR	WEGHV
33 ACER SACCHARINUM	SILVER MAPLE	46	4778 14067	FAR	COVERED IN VINES, BROKEN BRANCHES
34 ACER SACCHARINIM 33 ACER PLATANOCES	SUGAR MAPLE NCRNA V MAPLE	32	7238 6642	ROOR	DROKEN BRANCHES, OHW, VINES.
36 AGER PLATAHODES 37 AGER BACCHARRUM	NORWAY NARLE SEVERIMALE	26	4770 6163	PAPS:	SPLF @ V. 14", 12" SPLF @ V. 8", 17"
38 ACCRESACIONARMUM	SLVERIMPLE	27	5153	9000	YEE, SPLIT & F, 12" 12"
49 ACER SACCHARINAM	VOID SILVER MAPLE	VOID.	V OID 8171	9000 9000	Vab
41 AIOLANS NIGRA 43 AOST SACIONARIUM	BLACK WALRUT SEVER IMPLE	29 28	SB4E AATE	9009 9000	VNE
43 ACER SACCHARMUM	BLVERMALE	17	5153 12469	POOR POOR	AMERICAN PART VIOLE
45 ACER SACCHARISM	TREE OF HEAVEN SILVER MAPLE	32	7238	9000	MISSING BARK VINE
47 ACER BACCHARISUM 47 ACER BACCHARISUM	SILVER WAPLE	37	11310	9000 9000	SPLIT
48 ROBINA PSELEDIACACIA 48 ACER NEGUNDO	BLACK LOCUST BOXELOSE	28 32	5542 7238	9000 9000	
SE ACERSACCHA/SHAM	SILVER MAPLE	34	8171	9000	\$PLIT @ 17, 17",18"
57 ACER SACCHARMUM	SILVER MAPLE SILVER MAPLE	31	7660 8793	9000 G000	- 10 to 10 t
53 ACER SACCHARINUM 54 ALANTHUS ALTISSIMA	TREE OF HEAVEN	35	8650 6778	P00R 9000	MISSING RAPIC
55 ACER SACCHARMUM 56 ACER SACHHARMUM	NORWAY MAPLE HORWAY MAPLE	1	462 452	9000	
17 ACER SACHHARNUM	HORWAY MAPLE	14	1385	G000	
59 ACER SACHMANUM 59 ACER SACHMANUM	HORWIX Y MAPLE HORWIX Y MAPLE	6	254 254	9000	
66 ACER SACHHARINUM 61 JUGLANS NIGRA	NORWAY MAPLE BLACK WALNUT	99	346 267	9000	
63 ACERNIGUNDO 63 ACERNIGUNDO	BOXELDER BOXELDER	5	573 254	9000 9000	
64 ACER NEOUNDO 63 ROBINA PSEUDOACACIA	BOXELDER BLACK LOCUST		450 254	9000 9000	
41 ACER NEGUNEXO 47 ROBINA PSEUDOKCACIA	BOXELDER BLACK LOCUST	10	767	9300 9300	
44 ACER NEGUNDO 43 ALLANTHUS ALTISSIMA	BOXELDER TREE OF HEAVEN	111	254 707	9000	
79 JUGLANS NIGRA 71 ACER BACHMARINUM	BLACK WALKUT	17	1018	9000	
72 ROBINA PSELEGRACIA	BLACK LOCURT	19.10,8	707	POOR 9000	
73 ROBINA PREMIDACACIA 74 MORUS SP.	BLACK LOCUST MULBERRY SP.	12,64.4	1018	9000	
75 JUGLANS NIGHL 76 CATALPA SPECIOSA	BLACK WALNUT CATALPA	6.6.4	666 254	9000	
77 JUOLANS NIGRA	BLACK WALNUT	1	460	9000	
78 CATALPA SPECIOSA	BLACK LOCUST CATALFA	12	(01) 2290	9000	
## ROBINA PSEUDOACACIA #1 ACER SACHHARNUM	BLACK LOCUST MOTHRAY MAPLE	11	2290 254	9000	4
62 JUNIPERUS VIRGINANA 63 ACER SACCHARINAM	6ASTERN RED CEDAR NORWAY MAPLE	875A3	462 348	9000 9000	
64 ROBINA PSELECUCAÇÃO 65 PROBLES SERCITIVA	BLACK LOCUST BLACK CHERRY	11.	865 254	9000 9000	
## ACERNEGUNDO #7 ACERNEGUNDO	BOXELORS BOXELORS		264 264	9000	+
AT ACER NEGLADO	BOXEL DER		254 254	9000	
99 ACER MEGUNDO	BLACK WALHUT BOXELORE	8,0,6	460	9000 9000	
91 JUCK AND HIGHA R2 ACER NEGUNDO	BLACK WALNUT BOXELDER	11	1018	9000	
H) PICEA ABIES H PICEA ABIES	NORWAY SPRUCE NORWAY SPRUCE	4	254	G000	
95 PICEA ARES	NORWAY SPRUCE NORWAY SPRUCE		254 254	9000	
97 PICEN ARIES	MORVILAY SPRIJCE	8	364	9900	
## ACER NEGUNDO ## ACER SACCHARINIM	BOXELOGR SILVER MAPLE	7	2260 346	9000 9000	
190 ACER SACCHARIMIM 191 ACER SACCHARIMIM	SILVER MAPLE SILVER MAPLE	51	767 453	9000	
163 CARYA SP.	HICKORY SP.	1	452	9000	
183 PICEA ABIES 184 PICEA ABIES	NORVILLY SPRUCE NORVILLY SPRUCE	7	346	9000	
185 PICEA AGES 186 PICEA AGES	NORWAY SPRUCE NORWAY SPRUCE	-	346	9300	
167 JUGLANS NIGRA 168 ROBINA PSEEDGACACIA	BLACK WALKUT BLACK LOCUST	21	3738	9000	
109 ACERSP	MAPLE DP.	11	666	9000	
110 ROBINA PREMOACACIA 111 ROBINA PSEMBOACACIA	BLCK LOCUST	8	254	9000 9000	
112 ACERSP. 113 ACERSP.	MAPLE SP. MAPLE SP.		354 457	9000 9000	
114 ACERSP.	MAPLE SP.	7	346 254	9900	
115 ACERSA. 116 ACERSA.	MAPLESP. MAPLESP.	11	1500	9000	
117 ACERSP. 118 ACERSP.	MAPLESP.	12	1018	9000	
118 ACERSP. 120 ACERSP.	MAPLE GP MAPLE SP	7	366 463	G000	
121 ACERSE	MAPLESP	10	707	6000	
122 ACER SP. 123 ULMUS SP.	ELN SP.	20	1385	9000	
124 ULWUS SP. 125 ULWUS SP.	ELM SP.	7.5	1686 346	9000 9000	
BOLD TYPE DENOTES SPECIFICAL			157	1000	

SITE NARRATIVE AND FOREST SUMMARY

GENERAL INFORMATION

This is a 2.82-acre site. The subject property is located along the right of way on Clarksburg Rd. The property to the North is mostly the existing residential area. The subject study area are to be considered Ten Mile Creek & Clarksburg Special Protect. Area (SPA).

ENVIRONMENTAL FEATURES

180 YEAR FLOOD PLAIN

The FEMA flood map Community-Panel # 24031C 0160D indicates there is no

BOILS

The Sof Survey of Montgamery County, Maryland describes the soil types that ere present on the property as follows. The general soil association for this part of the county is Urban Land-Wheaton-Gleneig.

out type the Liganized regression with entering an interest and a service of the second of the secon

Soil type 9C - Linganore-Hyattatown channery sill loams, 8-15% slopes. These well drained, strongly sloping soils are on broad hispanore and six slopes. The Linganore coll generally is slightly loter on the landscape than the Hyattatown soil. Slopes generally are smooth, but a few are described by small drainageways. The potential productively for tree on these soils in enderately high. The depth to bedrook and the slope are the main limitations on sites for dwellings, especially those with

16B - Brinklow-Blocktown channery silt loams, 3 to 8 percent slopes, These sols The administration of the state moderately high. The hazard of weelthrow is severe on the Blocktown soil. The depth to bedrock are the main limitations on dwellings with basements and septic fields.

Teg. - Brinklow-Blocktown channery silt loams, 8 to 15 percent slopes. These are sold that are well defined and shoregly sloping on broad indigetops and side slopes. The main management concerns are the moderate hearand of reasons and the usy law available water capacity in the Blocktown soil. Excessive erosion decreases the rooting depth and further lowers coll productivity. The potential productivity for these on this soil is moderately high. The bazard of windthiow is severe on the Blocktown soil. The depth to bedrook are the main limitations on dwellings with basements and septic fields.

7. THERE ARE STREAMS AND STREAM BUFFERS WITHIN 100°C.

7. THERE ARE STREAMS AND STREAM BUFFERS WITHIN 100°C. 16C - Brinklow-Blocktown channery silt loams, 8 to 15 percent slopes. These are

178 - Occoquan loam - 3 to 8 percent slopes. This soil is well drained and is on ridgetops and side slopes. The permeability of the site is moderate. The potential productivity for trees on this soil is moderate.

There were wellands and welland buffers observed within 100° of the LOD during the field investigation. Wellands and 25° state regulated buffers were provided by Wellace Mortigomery & associates. Also 75° expand buffers were applied due to special probablism area regulation (Ten Mile Charle).

STREAMS AND DRAINAGEWAYS

There were streams observed crists and within 100" of the LDD. The site is within the LDIB Senece Creat. Ten Mile Creak Watershed, Use I-RIV.P. The stream have was abused from Wallace Micropency & Associates. The 100" buffers were applied to stream lines within the Indoors desired. The 200" buffers were applied to stream lines within the Indoors desired. The 200" buffers were applied to steam lines not within historic district, due in special procedurion sear regulation (Ten Mile Creek).

TOPOGRAPHY AND STEEP SLOPES

The site generally slopes to the North to South from the center:

CRITICAL HABITATS

The MONR have been notified of the project area and description. There appears to be THE MINOPPO HISTORIC PROPERTIES INTERACTIVE MAP no critical widdlife habitats from the field inspection. Copies of their correspondence will be provided when received.

SOILS

SOIL TABLE

This study area is located within the Clarkstwyg Historic. The Historic District boundary tres shown are sourced from Wallace Montgomery & Associates.

POREST STAND INFORMATION

INTRODUCTION

The forest stand plot samples were done in a random method as outlined an Natural Resource Inventory & Forest Stand

Morton Land Design completed a Natural Resource Inventory & Forest Stand

Delineation for the project known as MD 365 Frederick Road Shared Use Path Isoaled

in Claricours, Montgoney Caunty, MD in April 2018. The delineation was conducted using the publishines set forth in the MDNR State Forest Conservation Technical Manual:

demonstration for the project known as MD 365 Frederick Road Shared Use Path Isoaled on case (1) project size was 1/10 perc. Each individual stand has a reliminary of one (1) prestage plots. In the case of some forest stand stand and MNCPPC Those, Approved Technical Manual.

The size contains a forest stand with total of 1.10 acres of forest onsite. There are significant/bapecimen trees located within the forest stands. A last of the significant/specimen trees in the study area along with the usual health is within this report. The individual forest areas are summarized before.

Forest Stand 1 (896 sq.ft. / 0.02 ac) is an uptand hardwood area. The stand is dominated by 87-25° silver maple. The camppy also includes red oak and pine trees. The undertoxyy consists of honey sucisis. There appears to be a large amount of invasive plant cover throughout the forest. The forest appears to be heathy and in good condition. The Priority for this stand is 2. Moderate Retention.

Forest Stand 2 (0.891 to it if 0.23 at;) is an upland herowood area. The stand is dominated by 301 sidver maple. The canopy includes catalya, mulberry, and wainut trees. The understory consists of honey suckle. The priority for this stand is 1. High Retantion because of the presence of the specimen boxes.

Forest Stand 3 (26 474 sq.fti0 61 ac) is an upland hardwood area. The stand is county is Urigan Land-Wheapton-Glanely and the County of Urigan Land-Wheapton-Glanely self-to-ground and the County of Urigan Land-Wheapton-Glanely self-to-ground and the County of Urigan Land-Wheapton-Glanely self-to-ground and the County of Urigan Land-Wheapton County of Uriga

GENERAL NRI/FSD NOTES

- THIS PROPERTY IS WITHIN RIGHT OF WAY.
 THE TOTAL TRACT AREA IS 232 ACRES.
 BITE FIELD WORK WAS PERFORMED IN April, 2018 BY MICHAEL NORTON.

- 6. THERE ARE WETLANDS AND WETLAND BUFFERS WITHIN 100' OF THE L.O.O.
- THE WETLANDS AND SUFFER LINES WERE SOURCED FROM WALLACE MONTGORERY & ASSOCIATES.

 THERE ARE STREAMS AND STREAM BUFFERS WITHIN 100 OF THE LOD.
- THE STREAM LINE WAS SOURCED FROM WALLACE MONTGOMERY & THERE IS NO FLOODPLAIN ASSOCIATED WITH THE PROPERTY ACCORDING TO
- THEBE BY AD FLOODPLAIN ASSOCIATED WITH THE PROPERTY ACCORDING TO
 THE FEMA CHILDE FIRSTE MAP BY BOARD TO 1500.
 I TOPCGRAPHY AND BOUNDARY SURNEY WAS PROVIDED BY WALLACE
 MONTGOURNY & ASSOCIATES, IN APRIL 2018. ADDITIONAL 2' TOPGGRAPHY
 DERIVED FROM MINEPPC, MONTGOMERY COUNTY TOPOGRAPHIC MAP SHEET
 2010/1913-2354W114. \$232W114.
 THEBE ARE NO PRIME ACRICULTURAL SOLIS ON THE PROPERTY (SEE SOIL
 TABLE).
- 11. ALL TREES 26' AND GREATER WITHIN THE STUDY AREA ARE SURVEY LOCATED
- ALC MEASURED WITH A CORRETTERS DIAMETER TAPE MEASURE
 12. ALL TREES 24' AND GREATER OUTSIDE OF STUDY AREA ARE NOT LOCATED.
 ALL MANMADE STRUCTURES OFFSITE ARE LOCATED BY AVAILABLE ARRAI.
- PHOTOGRAPHS AND/OR OCCULAR ESTIMATE. 13. ALL TREES UNDER 24" ONSITE ARE MEASURED BY OCCULAR ESTIMATE ONLY. 4 NO RARE, THREATENED OR ENGANGERED SPECIES WERE OBSERVED ON OR
- TA NO MARE, IMPAREMENT OR EMPAREMENTATION CORRESPONDENCE OF OFFSITE AT THE TIME OF THE PRELIDIVESTIGATION, CORRESPONDENCE FROM MARY LAND DIR AND US RISH AND WILDLIFE SERVICE WILL BE PROVIDED WHEN RECEIVED.

 15 NO TREES OCCURY WITHIN THE STUDY AREA WHICH ARE RECOGNIZED AS CURRENT STATE CHAMPION TREES.

THE SUBJECT PROPERTY IS LISTED AS CLARKSBURG HISTORIC SITES AS FOUND IN

NRI/FSD TABULATION TABLE

ACREAGE OF TRACT:	2.82*
ACREAGE OF EX. FOREST:	1.16*
ACREAGE OF EXISTING WETLANDS	0.07*
ACREAGE OF FORESTED WETLANDS	0.07*
ACREAGE OF WETLAND BUFFERS	0.25*
ACREAGE OF STREAM BUFFERS	1.46*
ACREAGE OF FORESTED STREAM BUFFER	0.63*
ACREAGE OF 100 YEAR FLOODPLAIN	0.00
LINEAR EXTENT OF STREAMS	342'*
AVEFAGE WIDTH OF STREAM BUFFER	200'

*REPRESENTATIVE OF ONLY THE AREA WITHIN LOD & AND UTILIZING EXISTING FIELD DELINEATED RESOURCE BOUNDARY PROVIDED BY WALLACE MONTGOMERY ONLY.

CERTIFICATION OF QUALIFIED PROFESSIONAL

HEREBY CERTIFY THAT THE PLAN SHOWN HEREON HAS BEEN PREPARED IN ACCORDANCE ACCORDANCE WITH MARYLAND STATE. MNCP&PC AND MONTGOMERY COUNTY FOREST CONSERVATION LA

ALC

EW341,EW121 200 SHEET 233NW13 ADC MAP PAGE 9

AS SHOWN NOVEMBER 2018 15-138

11.30.18

MDNR / COMAR 08.19.06.01

CONTAINS CONTAINS ERODIBLE HYDRIC AGRICULTURAL 15-25% SLOPES > 25% SLOPES SUBCLASS SYMBOL

9B LINGANORE-HYATTSTOWN CHANNERY SILT LOAMS 3-8% SLOPES NO NO YES N/A NO 9C LINGANORE-HYATTSTOWN CHANNERY SILT LOAMS 8-15% SLOPES NO: YES YES N/A NO YES 16B BRINKLOW-BLOCKTOWN CHANNERY SILT LOAMS 18-15% SLOPES YES NO N/A NO NO

16C BRINKLOW-BLOCKTOWN CHANNERY SILT LOAMS 8-15% SLOPES YES NO NO N/A N/A 17B OCCOQUAN LOAM 3-8% SLOPES NO YES NO NO N/A

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

NO

NO

PLAN SHEET L-0.9 NRI/FSD SITE NARRATIVE & **FOREST SUMMARY** MD 355 - CLARKSBURG SHARED USE PATH

べNorton Land Design LANDSCAPE ARCHITECTURE + ENVIRONMENTAL PLANNING

LITTLE SENECA CREEK 24031C 0160D

NO. 420182000

WALLACE MONTGOMERY MONTGOMERY Hunt Valley, Maryland 21030 410.494.9093 Tel / 410.667.0925 Fax

TREES #109-125 WERE PROVIDED BY OTHERS.
SPECIES AND SIZE WILL BE CONFIRMED AT FCP SUBMITTAL.

DATUM: NAD 83/91 HORIZONTAL NAVD 88 VERTICAL

Designed by : S.K.L. Checked by : M.N. Drawn by : H.J.

Project No. : C.I.P. PR. # 501744

146 DORSEY HALL DRIVE 2ND FLOOR

ROCK CREEK

TER CLASS I,P/IV,P

BALT.443.542.9199 x101 DC 240.342.2329x101