MISS UTILITY

THE CONTRACTOR SHALL CALL "MISS UTILITY" AT 1-800-257-7777, 48 HOURS PRIOR TO THE START OF WORK. THE CONTRACTOR IS RESPONSIBLE FOR ENSURING THAT ALL UNDERGROUND UTILITIES IN THE AREA OF PROPOSED WORK ARE LOCATED PRIOR TO COMMENCING CONSTRUCTION WORK. THE CONTRACTOR IS RESPONSIBLE FOR COMPLIANCE WITH REQUIREMENTS OF CHAPTER 36A OF THE MONTGOMERY COUNTY CODE.

ALL UTILITIES SHOWN ON THE PLANS ARE PROVIDED FOR INFORMATION ONLY AND SHALL BE CONSIDERED APPROXIMATE. ANY UTILITIES OR OTHER UNDERGROUND FACILITIES DAMAGED DURING CONSTRUCTION SHALL BE REPAIRED/REPLACED AT THE CONTRACTOR'S SOLE EXPENSE.

MONTGOMERY COUNTY DEPARTMENT OF TRANSPORTATION

BURTONSVILLE ACCESS ROAD

SPENCERVILLE ROAD TO BURTONSVILLE ELEMENTARY SCHOOL ACCESS ROAD

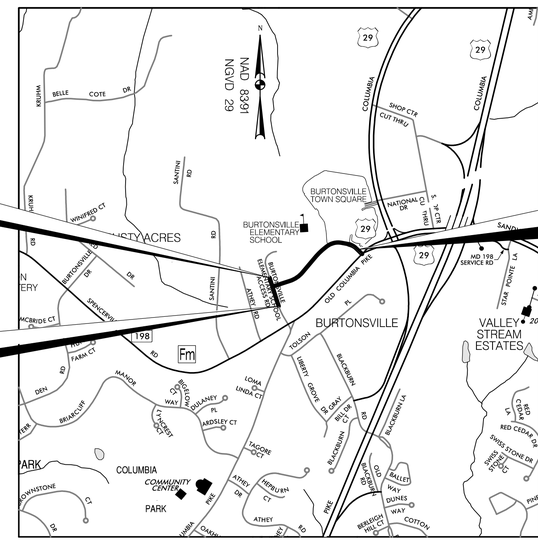
C.I.P. CONTRACT NO. 0500500

MONTGOMERY COUNTY DEPARTMENT OF PERMITTING SERVICES APPROVED FOR:		NOTE: MCDPS APPROVAL DOES NOT NEGATE THE NEED OF A MCDPS ACCESS PERMIT
STORMWATER MANAGEMENT REVIEWED DATE APPROVED DATE S.M.FILE NO.	SEDIMENT CONTROL TECHNICAL REQUIREMENTS: REVIEWED DATE APPROVED DATE	ADMINISTRATIVE REQUIREMENTS: REVIEWED DATE SEDIMENT CONTROL PERMIT NO. MCDPS APPROVAL OF THIS PLAN WILL EXPIRE ONE YEAR FROM THE DATE OF APPROVAL, IF THE PROJECT HAS NOT STARTED, UNLESS THE PERMIT HAS BEEN EXTENDED.

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

LIMIT OF WORK
BURTONSVILLE ELEMENTARY SCHOOL ACCESS ROAD
STA. 1000+12.89

LIMIT OF WORK
BURTONSVILLE ELEMENTARY SCHOOL ACCESS ROAD
STA. 1002+48.27



VICINITY MAP
SCALE: 1" = 1000'

LIMIT OF WORK
BURTONSVILLE ACCESS ROAD
STA. 114+00.70

INDEX OF SHEETS

SHEET NO.	DRAWING NO.	SHEET NAME
1	TI-01	TITLE SHEET
2	AB-01	GENERAL NOTES, ABREVIATIONS AND LEGEND
3	TS-01	TYPICAL SECTIONS
4	PD-01	PAVEMENT DETAILS
5	GS-01	GEOMETRY SHEET
6-8	PS-01 - PS-03	ROADWAY PLANS
9-11	PR-01 - PR-03	PROFILE PLANS
12-13	SW-01 - SW-02	STORMWATER MANAGEMENT PLAN & DESIGN DETAILS
14-17	NR-01 - NR-04	NRI / FSD & TREE SAVE PLANS
18-21	LD-01 - LD-04	LANDSCAPE PLANS
1-2		BURTONSVILLE ELEMENTARY SCHOOL ACCESS ROAD CROSS SECTIONS
1-12		BURTONSVILLE ACCESS ROAD CROSS SECTIONS

RELATED REQUIRED PERMITS

To be completed by the consultant and placed on the first sheet of the Sediment Control/Stormwater Management plan set for all projects

IT IS THE RESPONSIBLITY OF PERMITTEE/OWNER OF THIS SITE TO OBTAIN ALL REQUIRED PERMITS PRIOR TO ISSUANCE OF THE APPROVED SEDIMENT CONTROL PERMIT:

TYPE OF PERMIT	REQ'D	NOT REQ'D	PERMIT NO.	EXPIRATION DATE	WORK RESTRICTION DATES
MCDPS Floodplain district		X			
WATERWAYS/WETLAND(S) a. Corps of Engineers	X				
b. MDE	X				
c. MDE Water Quality Certification		X			
MDE Dam Safety		X			
Montgomery County/DNR Roadside Tree Care Blanket Permit	X				
Montgomery County Roadside Tree Protection Law Approval	X				
NPDES NOTICE OF INTENT	X				
OTHERS (Please List):					
WSSC	X				
Montgomery County Tree Canopy Construction Law Approval	X				
Historic Area Work Permit		X			

DESIGN DESIGNATION

ROADWAY	BURTONSVILLE ACCESS ROAD		BURTONSVILLE ELEMENTARY SCHOOL ACCESS ROAD	
ROADWAY LENGTH (MILES)	0.26		0.05	
CONTROLS YEARS	-	-	-	-
AVERAGE DAILY TRAFFIC (A.D.T.)	-	-	-	-
DESIGN HOURLY VOLUME (D.H.V.)	-	-	-	-
DIRECTIONAL DISTRIBUTION	-	-	-	-
% TRUCKS (A.D.T.)	-	-	-	-
% TRUCKS (D.H.V.)	-	-	-	-
FUNCTIONAL CLASSIFICATION	LOCAL		LOCAL	
CONTROL OF ACCESS	NONE		NONE	
INTENSITY OF DEVELOPMENT	URBAN		URBAN	
TERRAIN	ROLLING		ROLLING	
DESIGN SPEED (M.P.H.)	25 MPH		25 MPH	
ANTICIPATED POSTED SPEED (M.P.H.)	25 MPH		25 MPH	

35% DESIGN REVIEW
MAY 6, 2022
NOT FOR CONSTRUCTION

DWG. TI-01

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LICENSE NO.
EXPIRATION DATE:

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100 EDISON PARK DRIVE
GAITHERSBURG, MARYLAND

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

NO.	REVISION	DATE	BY

MONTGOMERY COUNTY
DEPARTMENT OF TRANSPORTATION
ROCKVILLE, MARYLAND

RECOMMENDED FOR APPROVAL
Chief, Transportation Planning and Design Section — Date
APPROVED
Chief, Division of Transportation Engineering — Date

DESIGNED BY KBJ DRAWN BY KBJ CHECKED BY TMB

MONTGOMERY COUNTY
DEPARTMENT OF TRANSPORTATION
DIVISION OF TRANSPORTATION ENGINEERING
BURTONSVILLE ACCESS ROAD
SPENCERVILLE ROAD TO
BURTONSVILLE ELEMENTARY SCHOOL ACCESS ROAD

SCALE AS SHOWN DATE MAY 6, 2022

DRAWING NO. OF SHEET NO. 1 OF 21

PLOTTED: 5/6/2022
FILE: \\wd.rkk.com\fs\Cloud\Projects\2020\20097_MCDOTtransp\Task 6 - Burtonsville Access Road\cadd\Plans\pGN-T001_BAR.dgn

GENERAL NOTES

1. RIGHT OF WAY LINES ARE SHOWN FOR ASSISTANCE IN INTERPRETING PLANS. THESE LINES DO NOT REPRESENT THE OFFICIAL PROPERTY ACQUISITION LINES. FOR OFFICIAL RIGHT OF WAY AND EASEMENT INFORMATION, SEE THE APPROPRIATE RIGHT OF WAY PLAT.

2. INFORMATION CONCERNING UNDERGROUND UTILITIES WAS OBTAINED FROM AVAILABLE RECORDS, BUT THE CONTRACTOR MUST DETERMINE THE EXACT LOCATION AND ELEVATIONS OF THE MAINS BY DIGGING TEST HOLES BY HAND AT ALL UTILITY CROSSINGS, WELL IN ADVANCE OF TRENCHING. IF CLEARANCE IS LESS THAN TWELVE (12) INCHES, THEN CONTACT THE MONTGOMERY COUNTY DOT PROJECT MANAGER AND THE APPROPRIATE UTILITY BEFORE PROCEEDING WITH CONSTRUCTION.

3. THE CONTRACTOR SHALL CALL "MISS UTILITY" AT LEAST 48 HOURS IN ADVANCE OF ANY EXCAVATION WORK AT 1–800–257–7777.

4. REPAIRS TO UTILITIES OR PROPERTY DAMAGED AS A RESULT OF THE CONTRACTOR'S NEGLIGENCE OR METHOD OF OPERATION MUST BE MADE AT THE CONTRACTOR'S EXPENSE BEFORE PROCEEDING WITH CONSTRUCTION.

5. THE EXACT LOCATION AND TYPE OF SEDIMENT CONTROL DEVICES WILL BE SUBJECT TO THE APPROVAL OF THE ENGINEER, WHO RESERVES THE RIGHT TO ORDER ADDITIONAL EROSION AND SEDIMENT CONTROL DEVICES..

6. CONSTRUCTION EQUIPMENT SHALL HAVE TREADS /TIRES CLEANED PRIOR TO LEAVING THE LOD. ALL MATERIAL REMOVAL /LOAD OUT SHALL BE LIFTED FROM THE LOD. ALL SEDIMENT SPILLED, DROPPED OR TRACKED ONTO THE ROAD MUST BE REMOVED IMMEDIATELY BY VACUUMING, SCRAPING OR SWEEPING

7. SAW CUTS WILL NOT BE MEASURED BUT WILL BE INCIDENTAL TO OTHER RELATED ITEMS AS SPECIFIED IN THE CONTRACT DOCUMENTS.

8. REFER TO THE CONTRACT DOCUMENTS FOR ROADWAY BORING, SOIL BORING AND INFILTRATION TESTING DATA SHEETS.

9. ALL WORK ON THIS PROJECT SHALL CONFORM TO THE 2008 MDSHA STANDARD SPECIFICATIONS FOR CONSTRUCTION AND MATERIALS, REVISIONS THEREOF OR ADDITIONS THERETO, THE SPECIAL PROVISIONS INCLUDED IN THE CONTRACT DOCUMENTS, AND THE LATEST VERSION OF THE MARYLAND MUTCD.

10. PAVEMENT RESURFACING SHALL BE COMPLETED WITHIN FOURTEEN (14) CALENDAR DAYS AFTER GRINDING. PAVEMENT GRINDING OPERATIONS SHALL NOT BEGIN UNLESS THERE IS A SUFFICIENT TIME TO RESURFACE THE ROADWAY BEFORE COLD WEATHER. SEE SP509 – GRINDING ASPHALT PAVEMENT.

11. EXISTING INFORMATION SHOWN IN THE PLANS IS BASED ON TOPOGRAPHIC SURVEY PERFORMED BY RK&K ON DECEMBER 1, 2021 WITH HORIZONTAL DATUM NAD 83-91 AND VERTICAL DATUM NGVD 29.

LEGEND

- CONCRETE SIDEWALK
- ASPHALT SHARED USE PATH
- FULL DEPTH ASPHALT PAVEMENT
- PAVEMENT GRINDING & RESURFACING
- PAVEMENT OR SIDEWALK REMOVAL
- 135 — BASELINE OF CONSTRUCTION
- CHAIN LINK FENCE
- C — CUT LINE
- F — FILL LINE
- LOD — LIMIT OF DISTURBANCE
- WOOD FENCE
- 15" RCP — STORM DRAIN
- ES 1 — DRAINAGE STRUCTURE IDENTIFICATION
- FIRE HYDRANT
- LIGHT POLE
- W-1 — ROADWAY BORING PLAN LOCATION
- UTILITY TEST HOLE LOCATION
- 4" G — EXISTING GAS MAIN
- EXISITING RIGHT OF WAY LINE
- SAN — EXISTING SEWER MAIN
- 15" RCP — EXISTING STORM DRAIN PIPE
- W — EXISTING WATER MAIN
- EXISTING INLET
- EXISTING LIGHT
- EXISTING SIGN
- SD — STORM DRAIN MANHOLE
- SS MH — SANITARY SEWER MANHOLE
- TMH — TELEPHONE MANHOLE
- W — WATER VALVE
- W.M. — WATER METER
- UTILITY POLE
- TREES
- TREE LINE
- WETLAND BOUNDARY
- WETLAND AREA

ABBREVIATIONS

A.A.S.H.T.O.	American Association of State Highway Transportation Officials
ABAND.	Abandoned
ADT.	Average Daily Traffic
AHD.	Ahead
APPROX.	Approximate
AUX.	Auxiliary
℄ or B/L	Baseline
BK	Back /Book
BIT.	Bituminous
B.C.	Bituminous Concrete
B.M.	Bench Mark
BOT.	Bottom
C.C.	Center of Curve
CAB.	Utility Cabinet
CATV	Cable Television
C.B.R.	California Bearing Ratio
℄	Centerline
CL.	Class
CLF	Chainlink Fence
CMP	Corrugated Metal Pipe
CMPA	Corrugated Metal Pipe Arch
C.O.	Cleanout
COMB.	Combination
CONC.	Concrete
CONSTR.	Construction
COR.	Corner
CORR.	Correction
DC	Degree of Curve
D.H.V.	Design Hourly Volume
D.I.	Drop Inlet
DIA.	Diameter
D.O.	Double Opening
DPS	Department of Permitting Services
E	East
E	Electric
E	External Distance
EA.	Each
EB	Eastbound
ELEV.	Elevation
E.R.C.C.P.	Elliptical Reinforced Cement Concrete Pipe
ES	End Section
EX. or EXIST.	Existing
FT.	Feet
F or FL	Flowline
F.B.D.	Flat Bottom Ditch
F.H.	Fire Hydrant
FWD.	Forward
G	Gas
G.V.	Gas Valve
H.B.	Handbox
H.D.P.E.	High Density Polyetheylene Pipe
HDWL.	Headwall
H.E.R.C.P.	Horizontal Ellipitical Reinforced Concrete Pipe
H.P.	High Point
IN	Inch
I.S.T.	Inlet Sediment Trap
INV.	Invert
J.B.	Junction Box
K	K Inlet
L	Length
L.F.	Linear Feet
L.L.	Liquid Limit
LOD	Limit of Disturbance
L.P.	Light Pole
LT.	Left
M–NCPPC	Maryland–National Capital Park and Planning Commission
MAC.	Macadam
M.C.	Moisture Content
MAX.	Maximum
M.D.D.	Maximum Dry Content
MOD.	Modified
MIN.	Minimum
N	North
NB	Northbound
N.E.	Northeast
N.P.	Non–Plastic
O.C.	On Center
OHE	Overhead Electric
O.M.	Optimum Moisture
PAV'T.	Pavement
P.C.	Point of Curvature
P.C.C.	Point of Compound Curvature
P/C	Point of Crown
ℙ	Plate
PED.	Utility Pedestal
P/GE	Profile Grade Elevation
PGL	Profile Grade Line
P/GL	Profile Ground Line
P/R	Point of Rotation
P.I.	Plasticity Index
P.I.	Point of Intersection
P.O.C.	Point On Curve
P.O.T.	Point On Tangent
PROP.	Proposed
P.R.C.	Point of Reverse Curve
PT.	Point
P.T.	Point of Tangency
P.V.C.	Point of Vertical Curve
PVC	Polyvinyl Chloride
PVI	Point of Vertical Intersection
PVRC.	Point of Vertical Reverse Curve
PVT	Point of Vertical Tangency
R	Radius
RELOC.	Relocated
R.F.	Rock Fragments
RT	Right
RW or R/W or R.O.W.	Right of Way
R.C.P.	Reinforced Cement Pipe
R.C.C.P.	Reinforced Cement Concrete Pipe
R.Q.D.	Rock Quality Desgnation
R.M.	Rootmat
S	South
SAN.	Sanitary Sewer
SB	Southbound
S.D.	Storm Drain
S.D.D.	Surface Drain Ditch
S.E.	Super Elevation
SF	Silt Fence
S.F.	Square Feet
SHLD.	Shoulder
SHT.	Sheet
S.P.P.	Structural Plate Pipe
S.P.T.	Standard Penetration Testing
SSD	Stopping Sight Distance
SSF	Super Silt Fence
STD.	Standard
STA.	Station
SO.	Single Opening
S.Y.	Square Yards
SWM	Stormwater Management
T	Tangent
T	Telephone
T.C.	Top of Cover
T.G.	Top of Grate
T or TL	Traverse Line
T.M.	Top of Manhole
TRAV.	Traverse
TS	Temporary Swale
T.S.	Top of Slab
T.S.	Topsoil
TYP.	Typical
U.D.	Under Drain
U.G.	Underground
U.P.	Utility Pole
U.S.D.A.	United States Department of Agriculture
VCL	Vertical Clearance
V.C.L.	Vertical Curve Length
W	Water
W	West
WB	Westbound
WB	Wetland Buffer
W.M.	Water Meter
W.S.	Wrapped Steel
W.S.S.C.	Washington Suburban Sanitation Commission
W.V.	Water Valve
X–SLOPE	Cross Slope

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100 EDISON PARK DRIVE
GAITHERSBURG, MARYLAND

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

NO.	REVISION	DATE	BY

MONTGOMERY COUNTY
DEPARTMENT OF TRANSPORTATION
ROCKVILLE, MARYLAND

RECOMMENDED FOR APPROVAL
Chief, Transportation Planning and Design Section — Date
APPROVED
Chief, Division of Transportation Engineering — Date

DESIGNED BY ____ DRAWN BY ____ CHECKED BY ____

MONTGOMERY COUNTY
DEPARTMENT OF TRANSPORTATION
DIVISION OF TRANSPORTATION ENGINEERING

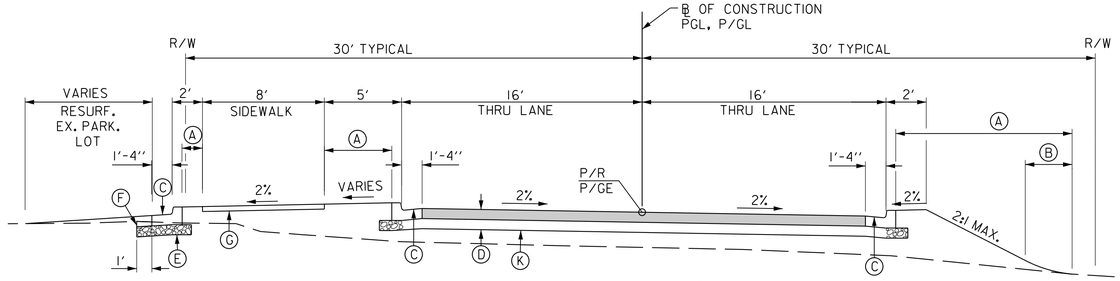
BURTONSVILLE ACCESS ROAD
SPENCERVILLE ROAD TO
BURTONSVILLE ELEMENTARY SCHOOL ACCESS ROAD

GENERAL NOTES, ABBREVIATIONS AND LEGEND

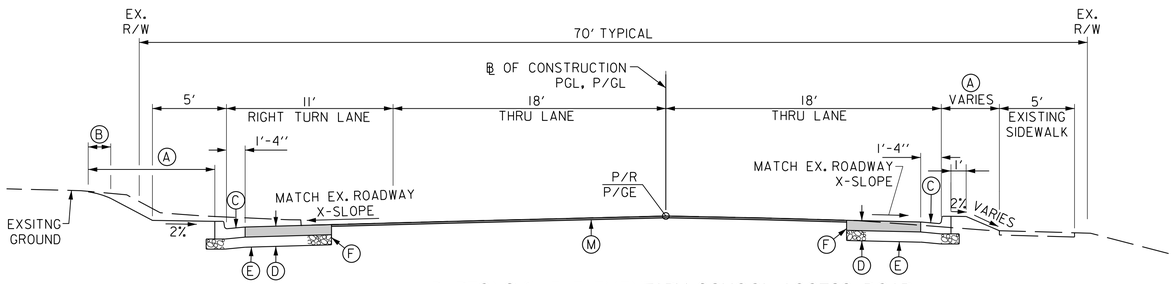
SCALE NONE DATE MAY 6, 2022

DRAWING NO. AB–01 OF 01 SHEET NO. 2 OF ___

PLOTTED: 5/6/2022
FILE: \\ad.rkk.com\fs\Cloud\Projects\2020\20097_MCDOT\Temp\Task 6 – Burtonsville Access Road\cadd\Plans\pAB-0001_BAR.dgn

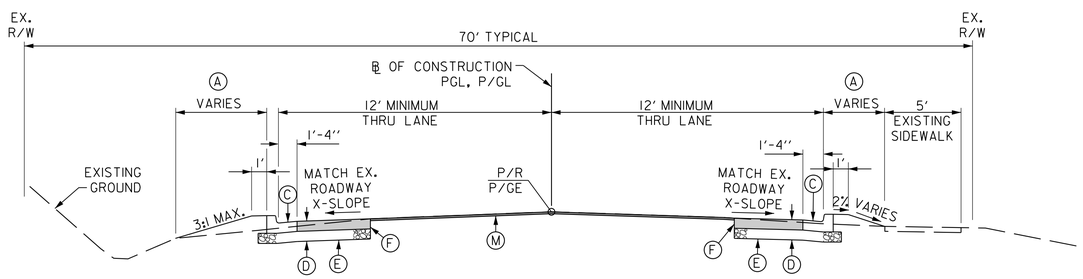


SERVICE ROAD RT. STA. 103+45



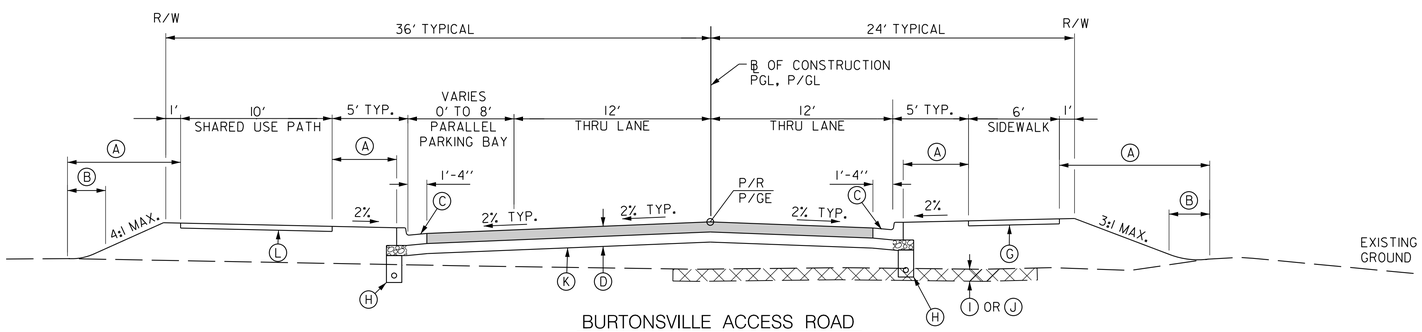
BURTONSVILLE ELEMENTARY SCHOOL ACCESS ROAD

STA. 1001+50 TO STA. 1002+48



BURTONSVILLE ELEMENTARY SCHOOL ACCESS ROAD

STA. 1000+12 TO STA. 1001+50

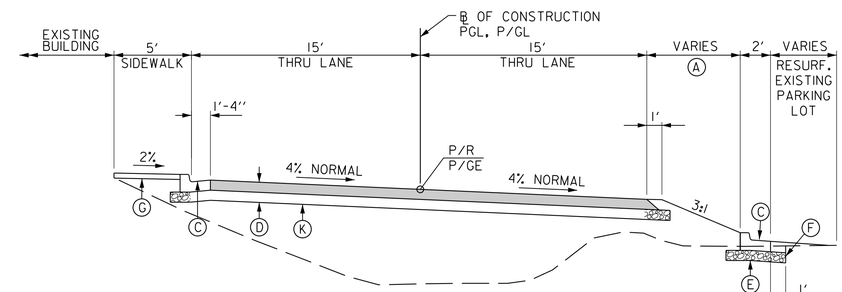


BURTONSVILLE ACCESS ROAD

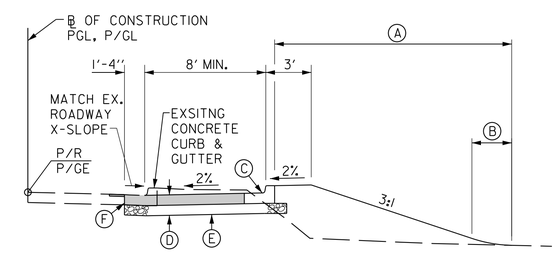
STA. 100+75 TO STA. 111+75

TYPICAL SECTION LEGEND

- (A) PLACE 4" TOPSOIL AND SOD EXCEPT WHERE DITCH LININGS ARE TO BE BIOFILTRATION SEED MIX, RIPRAP OR CONCRETE.
- (B) SLOPE ROUNDING (STD. NO. MC-811.01)
- (C) COMBINATION CONCRETE CURB & GUTTER - TYPE A (STD NO. MC-100.01)
- (D) FULL DEPTH PAVEMENT (SEE DETAIL SHEET NO. PD-01)
- (E) LIMIT OF CLASS I EXCAVATION
- (F) FULL DEPTH SAW CUT (SEE DETAIL ON SHEET NO. PD-01)
- (G) 5 INCH CONCRETE SIDEWALK (STD. NO. MC-111.01)
- (H) UNDERDRAIN - LOCATION AS NOTED ON PLANS (SHA STD. MD-387.11-01)
- (I) WHEN THE TOP OF PROPOSED SUBGRADE IS LESS THAN ONE FOOT ABOVE THE EXISTING PAVEMENT SURFACE, REMOVE THE EXISTING PAVEMENT AND BACKFILL WITH CRUSHER RUN CR-6.
- (J) WHEN THE TOP OF PROPOSED SUBGRADE IS GREATER THAN OR EQUAL TO ONE FOOT ABOVE THE EXISTING PAVEMENT SURFACE, REMOVE THE EXISTING PAVEMENT AND BACKFILL WITH COMMON BORROW.
- (K) TOP OF SUBGRADE
- (L) ASPHALT SHARED USE PATH (SHA STD. MD-580.08)
- (M) GRIND AND RESURFACE



SERVICE ROAD RT. STA. 104+50



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Chief, Division of Transportation Engineering — Date

DESIGNED BY MCK DRAWN BY SJS CHECKED BY TMB

MONTGOMERY COUNTY
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DIVISION OF TRANSPORTATION ENGINEERING

BURTONSVILLE ACCESS ROAD

SPENCERVILLE ROAD TO
BURTONSVILLE ELEMENTARY SCHOOL ACCESS ROAD

TYPICAL SECTIONS

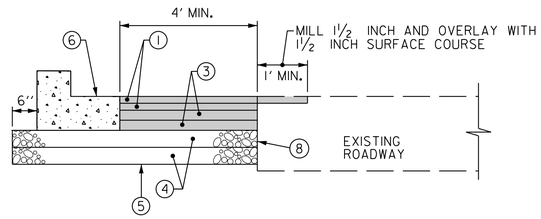
SCALE N.T.S. DATE MAY 6, 2022

DRAWING NO. TS-01 OF 01 SHEET NO. 3 OF 21

PLOTTED: 5/6/2022
FILE: \\ad.rkk.com\ds\Cities\Projects\2020\20097_MCDOTransp\Task 6 – Burtonsville Access Road\cadd\Plans\pTS-P001_BAR.dgn

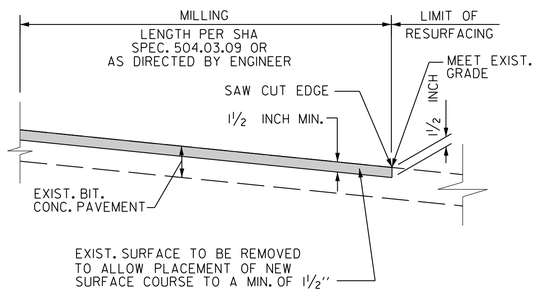
LEGEND

1. 1½ INCH HOT MIX ASPHALT SUPERPAVE SURFACE, 12.5 MM, PG 64-22, LEVEL-2
2. HOT MIX ASPHALT SUPERPAVE, 9.5 MM FOR WEDGE / LEVEL, PG 64-22, LEVEL-2
3. 2½ INCH HOT MIX ASPHALT SUPERPAVE BASE, 19.0 MM, PG 64-22, LEVEL-2
4. 4 INCH GRADED AGGREGATE BASE COURSE
5. TOP OF SUBGRADE AND LIMIT OF CLASS I EXCAVATION
6. COMBINATION CONCRETE CURB & GUTTER - TYPE A (STD NO. MC-100.01)
8. SAW CUT (SEE DETAIL THIS SHEET)
9. 4 INCH CONCRETE SIDEWALK (GRADED AGGREGATE BASE INCIDENTAL TO SIDEWALK PAY ITEM)
10. PLAIN PORTLAND CEMENT CONCRETE PAVEMENT - MIX NO. 3



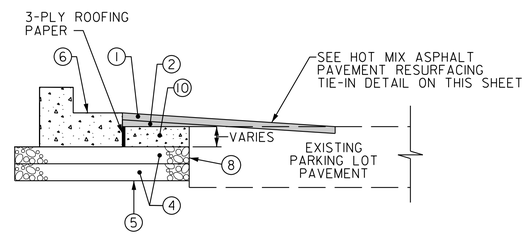
FULL DEPTH PAVEMENT DETAIL – CLOSED SECTION

NOT TO SCALE



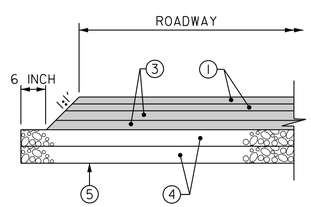
GRIDING AND RESURFACING DETAIL

NOT TO SCALE



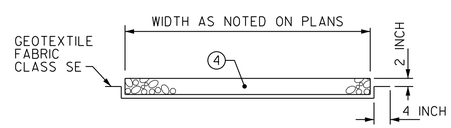
EXISTING PARKING LOT NEW CONCRETE CURB AND GUTTER DETAIL

NOT TO SCALE



FULL DEPTH PAVEMENT DETAIL – OPEN SECTION

NOT TO SCALE



NOTE: GEOTEXTILE FABRIC CLASS SE SHALL BE INCIDENTAL TO THE GRADED AGGREGATE BASE FOR GRAVEL ENTRANCE ITEM.

GRAVEL ENTRANCE DETAIL
(SWM POND ACCESS & GRAVEL DRIVEWAY LT. STA. 103+25)

NOT TO SCALE

DWG. PD-01

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

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

NO.	REVISION	DATE	BY

MONTGOMERY COUNTY
DEPARTMENT OF TRANSPORTATION
ROCKVILLE, MARYLAND

RECOMMENDED FOR APPROVAL

Chief, Transportation Planning and Design Section — Date

APPROVED

Chief, Division of Transportation Engineering — Date

DESIGNED BY MCK DRAWN BY SJS CHECKED BY TMB

MONTGOMERY COUNTY
DEPARTMENT OF TRANSPORTATION
DIVISION OF TRANSPORTATION ENGINEERING

BURTONSVILLE ACCESS ROAD

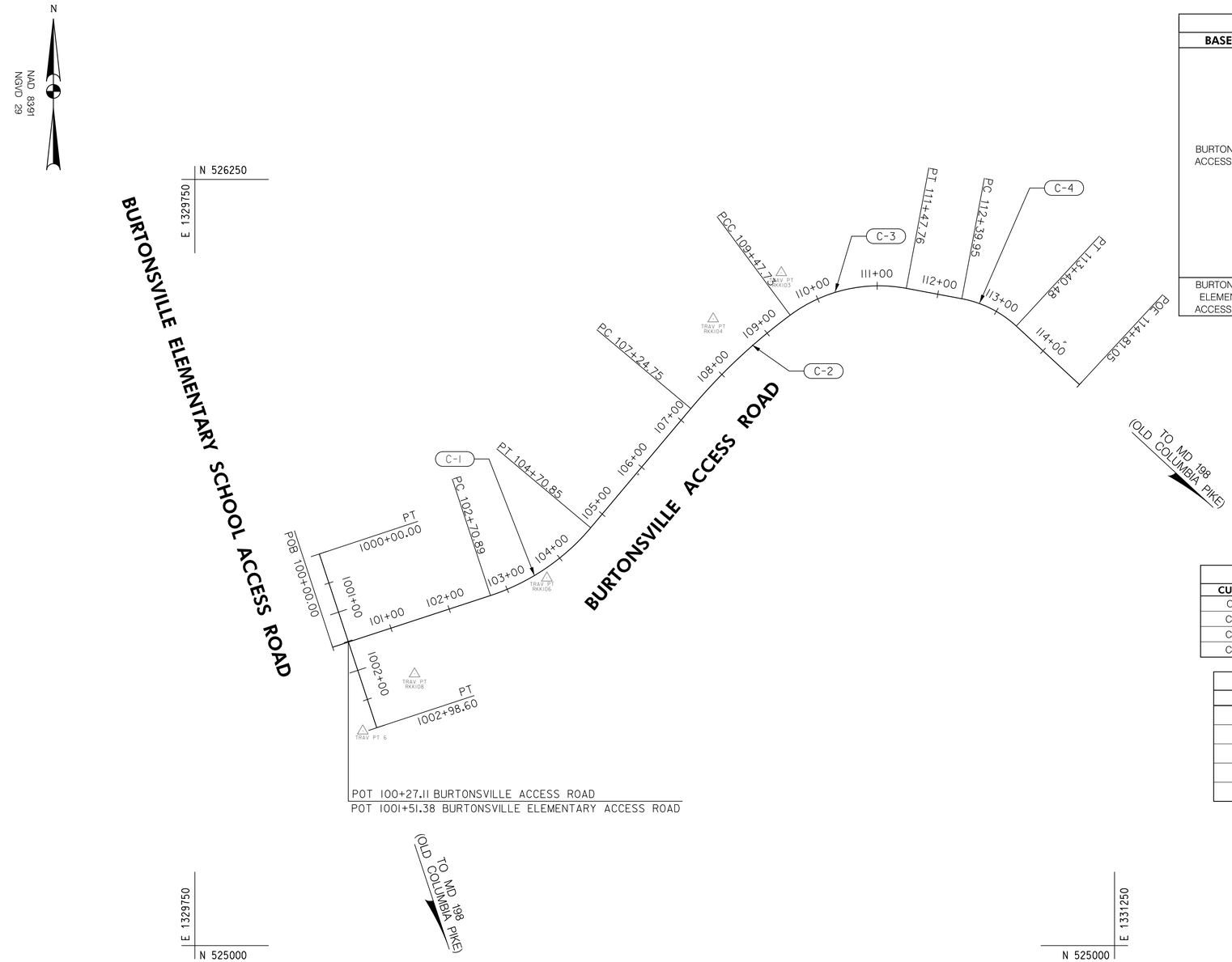
SPENCERVILLE ROAD TO
BURTONSVILLE ELEMENTARY SCHOOL ACCESS ROAD

PAVEMENT DETAILS

SCALE N.T.S DATE MAY 6, 2022

DRAWING NO. PD-01 OF 01 SHEET NO. 4 OF 21

PLOTTED: 5/6/2022
FILE: \\uat.rkk.com\fs\Cloud\Projects\2020\20097_MCDOT\proj\Task 6 - Burtonsville Access Road\cadd\Plans\p01-p001_BAR.dgn



BASELINE CONTROL COORDINATES

BASELINE	POINT NO.	STATION	NORTH	EAST	BEARING
BURTONSVILLE ACCESS ROAD	POB	100+00.00	525,486.7516	1,329,974.6714	N 71°51'00.00" E
	PC	102+70.89	525,571.1366	1,330,232.0867	
	PI	103+73.52	525,603.1070	1,330,329.6119	
	PT	104+70.85	525,681.6980	1,330,395.6174	N 40°01'32.00" E
	PC	107+24.75	525,876.1214	1,330,558.9058	
	PCC	109+47.73	526,028.6173	1,330,720.8922	
	PI	110+53.80	526,091.8130	1,330,806.0834	
	PT	111+47.76	526,072.3100	1,330,910.3469	S 79°24'17.82" E
	PC	112+39.95	526,055.3594	1,331,000.9646	
	PI	112+91.58	526,045.8660	1,331,051.7163	
	PT	113+40.48	526,010.8016	1,331,089.6154	S 47°13'29.62" E
	POE	114+81.05	525,915.3373	1,331,192.7974	
BURTONSVILLE ELEMENTARY ACCESS ROAD	PT	1000+00.00	525,638.9325	1,329,952.9208	S 18°17'33.23" E
	PT	1002+98.60	525,355.4183	1,330,046.6433	

CURVE DATA

CURVE	DELTA	Dc	RADIUS	TANGENT	LENGTH	EXTERNAL
C–1	31°49'28.00" LT.	15°54'55.78"	360.00	102.63'	199.96'	14.34'
C–2	13°24'21.65" RT.	6°00'43.74"	953.00	112.00'	222.98'	6.56'
C–3	47°09'48.53" RT.	23°34'42.64"	243.00	106.07'	200.03'	22.14'
C–4	32°10'48.20" RT.	32°00'31.74"	179.00	51.63'	100.54'	7.30'

TRAVERSE CONTROL

TRAV PT.	NORTHING	EASTING	ELEVATION	DESCRIPTION
6	525,350.1638	1,330,023.8409	479.62	REBAR & CAP
RKK103	526,098.0629	1,330,706.4649	487.82	REBAR & CAP
RKK104	526,022.5951	1,330,595.4332	486.59	REBAR & CAP
RKK106	525,599.7952	1,330,324.1285	481.22	MAG NAIL
RKK108	525,443.3125	1,330,108.2644	481.78	MAG NAIL

DWG. GS–01

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GAITHERSBURG, MARYLAND

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

NO.	REVISION	DATE	BY

MONTGOMERY COUNTY
DEPARTMENT OF TRANSPORTATION
ROCKVILLE, MARYLAND

RECOMMENDED FOR APPROVAL
Chief, Transportation Planning and Design Section — Date
APPROVED
Chief, Division of Transportation Engineering — Date

DESIGNED BY KBJ DRAWN BY KBJ CHECKED BY TMB

MONTGOMERY COUNTY
DEPARTMENT OF TRANSPORTATION
DIVISION OF TRANSPORTATION ENGINEERING

BURTONSVILLE ACCESS ROAD

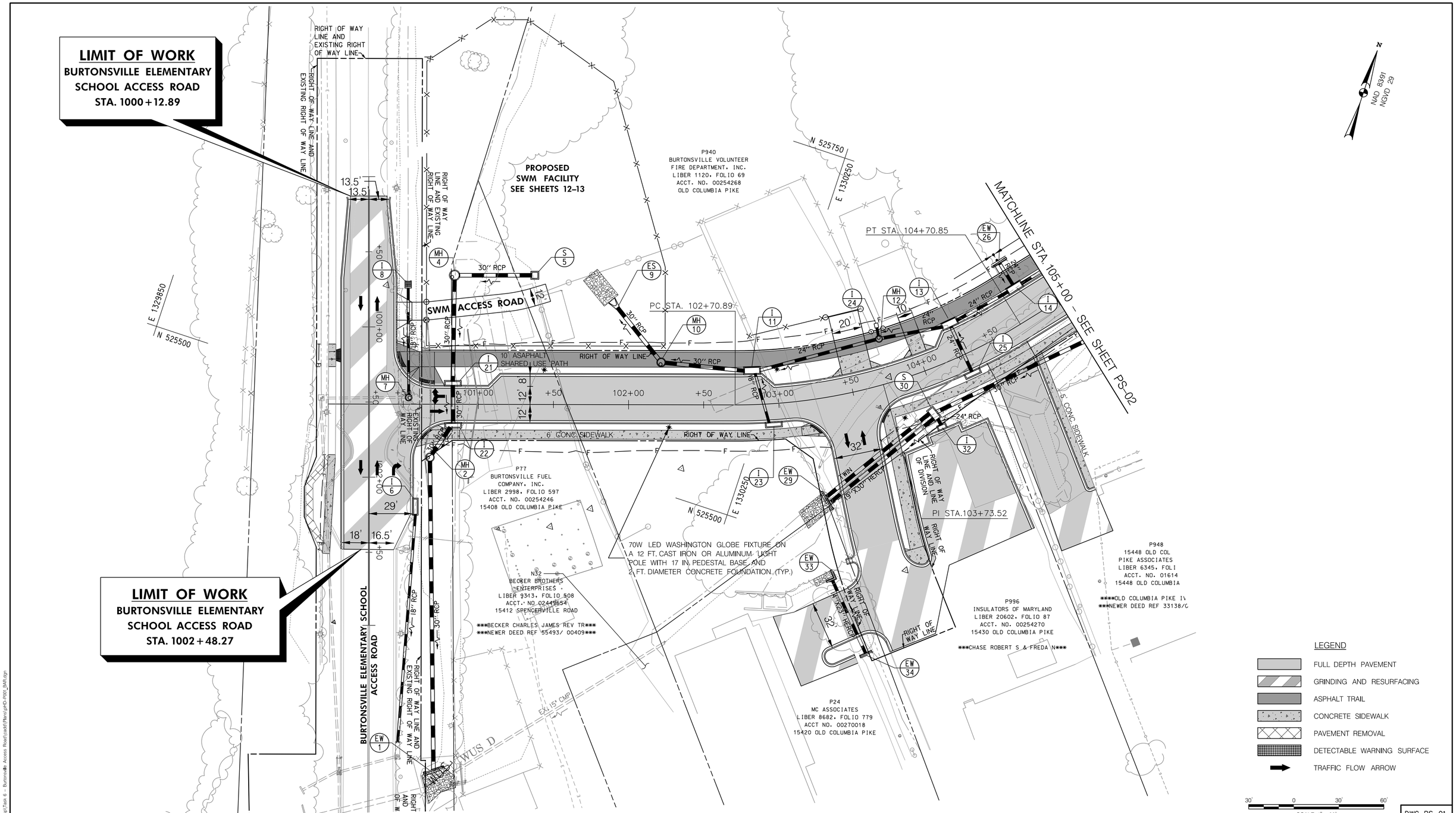
SPENCERVILLE ROAD TO
BURTONSVILLE ELEMENTARY SCHOOL ACCESS ROAD

GEOMETRY SHEET

SCALE 1"=100' DATE MAY 6, 2022

DRAWING NO. GS–01 OF 01 SHEET NO. 5 OF 21

PLOTTED: 5/6/2022
FILE: \\ad.rkk.com\fs\Cities\Projects\2020\20097_MCDOTransp\Task 6 – Burtonsville Access Road\cadd\Plans\pGS-P001_BAR.dgn



DWG. PS-01

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ROCKVILLE, MARYLAND

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Chief, Division of Transportation Engineering — Date

DESIGNED BY MCK DRAWN BY SJS CHECKED BY TMB

MONTGOMERY COUNTY
DEPARTMENT OF TRANSPORTATION
DIVISION OF TRANSPORTATION ENGINEERING

BURTONSVILLE ACCESS ROAD

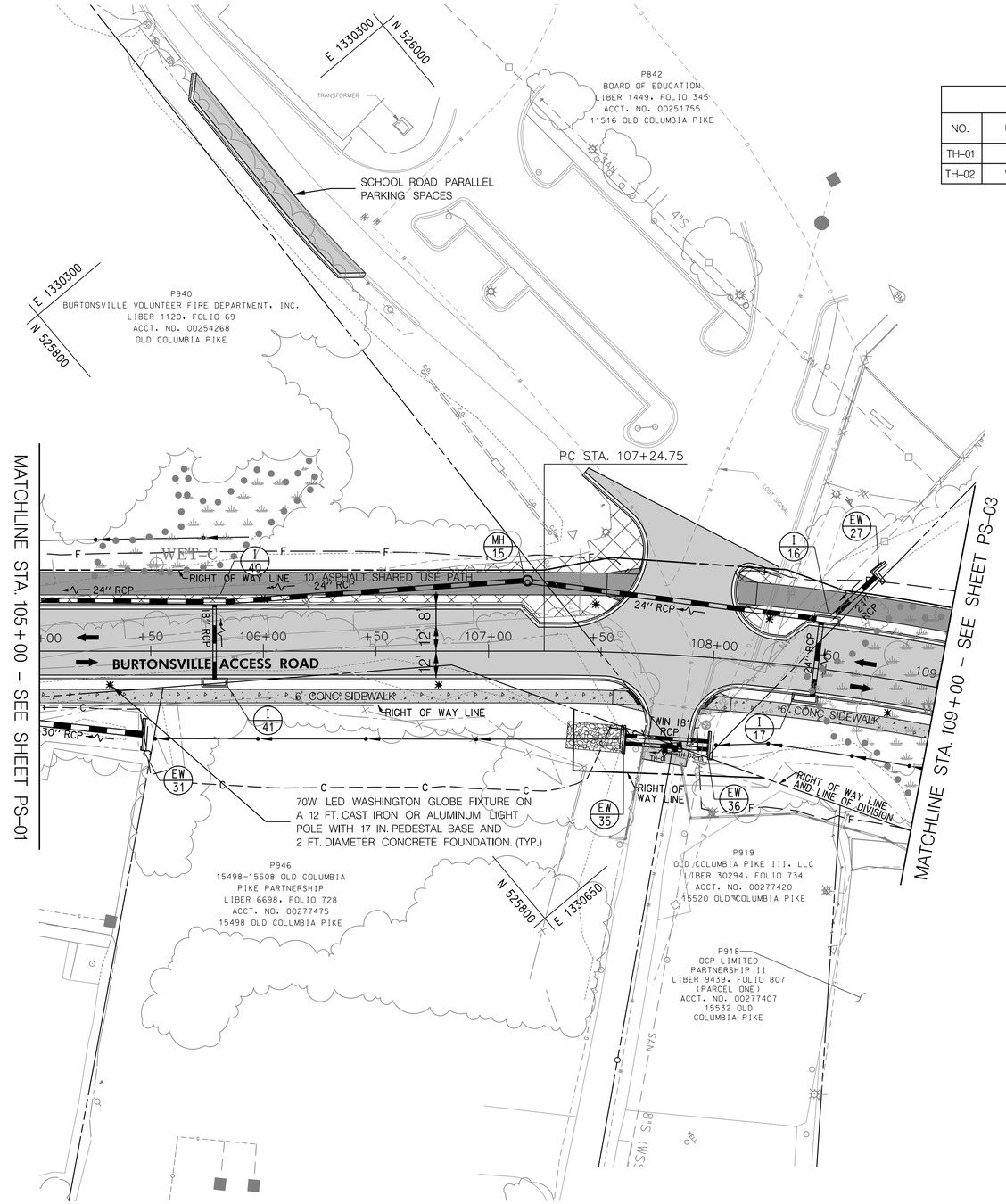
SPENCERVILLE ROAD TO
BURTONSVILLE ELEMENTARY ACCESS ROAD

ROADWAY PLAN

SCALE 1"=30' DATE MAY 6, 2022

DRAWING NO. PS-01 OF 03 SHEET NO. 6 OF 21

PLOTTED: 5/6/2022
FILE: \\ad.rkk.com\fs\Cloud\Projects\2020\20097_MCDOT\eng\Task 6 - Burtonsville Access Road\cadd\Plans\phHD-P001_BAR.dgn



PROPOSED TEST HOLE DATA					
NO.	UTILITY	NORTHING	EASTING	TOP UTILITY ELEVATION	SURFACE ELEVATION
TH-01	GAS	525,890.2254	1,330,626.9650	–	–
TH-02	WATER	525,893.9394	1,330,629.6029	–	–

NAD 8391
NGVD 29

LEGEND

- FULL DEPTH PAVEMENT
- GRINDING AND RESURFACING
- ASPHALT TRAIL
- CONCRETE SIDEWALK
- PAVEMENT REMOVAL
- DETECTABLE WARNING SURFACE
- TRAFFIC FLOW ARROW

30' 0 30' 60'
SCALE: 1" = 30'

DWG. PS-02

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MONTGOMERY COUNTY
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ROCKVILLE, MARYLAND

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Chief, Transportation Planning and Design Section — Date
APPROVED
Chief, Division of Transportation Engineering — Date

DESIGNED BY MCK DRAWN BY SJS CHECKED BY TMB

MONTGOMERY COUNTY
DEPARTMENT OF TRANSPORTATION
DIVISION OF TRANSPORTATION ENGINEERING

BURTONSVILLE ACCESS ROAD

SPENCERVILLE ROAD TO
BURTONSVILLE ELEMENTARY ACCESS ROAD

ROADWAY PLAN

SCALE 1"=30' DATE MAY 6, 2022

DRAWING NO. PS-02 OF 03 SHEET NO. 7 OF 21

PLOTTED: 5/6/2022
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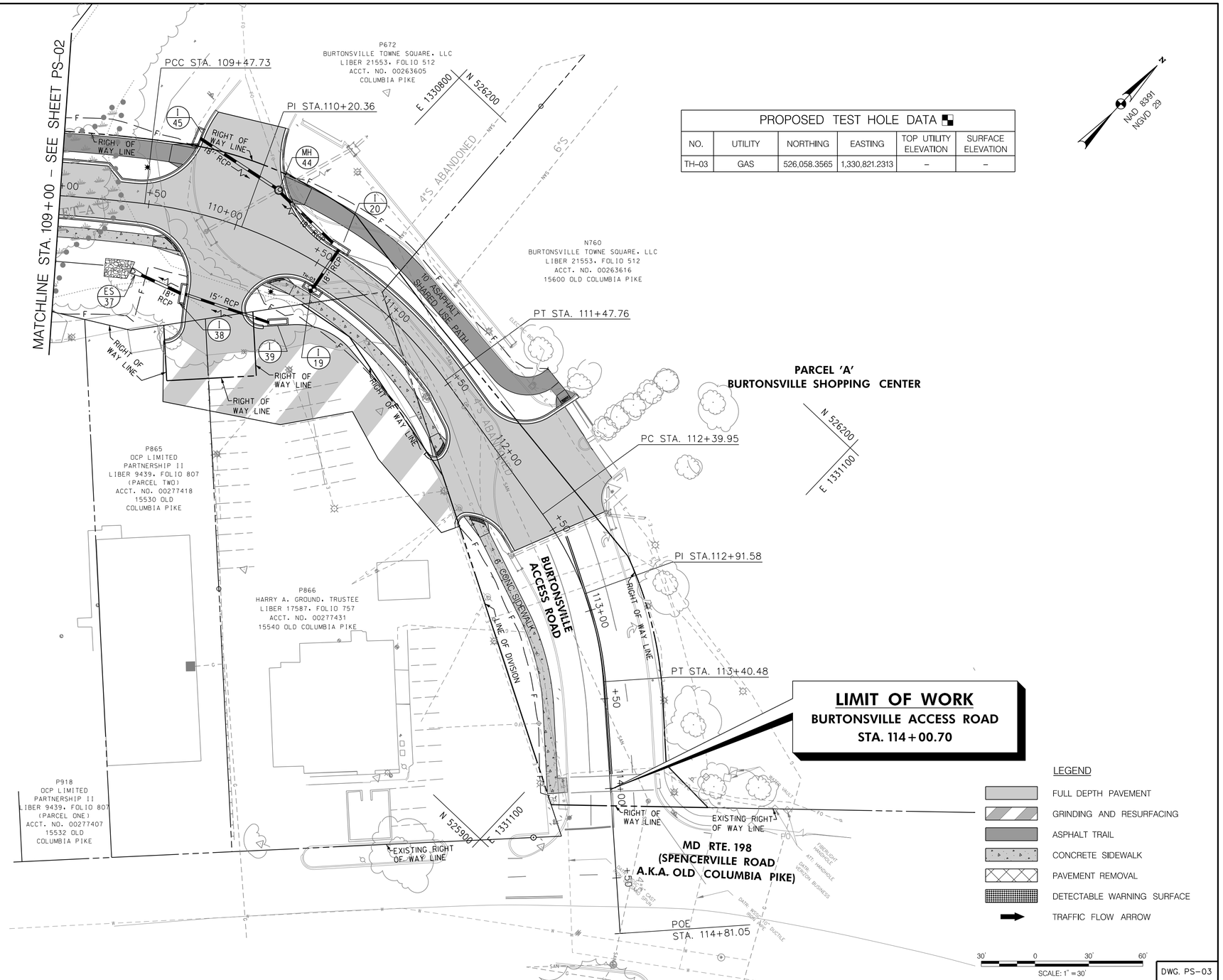

PROPOSED TEST HOLE DATA					
NO.	UTILITY	NORTHING	EASTING	TOP UTILITY ELEVATION	SURFACE ELEVATION
TH-03	GAS	526,058.3565	1,330,821.2313	–	–

DWG. PS-03

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DESIGN SECTION
240-777-7221

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DEPARTMENT OF TRANSPORTATION
ROCKVILLE, MARYLAND

RECOMMENDED FOR APPROVAL
Chief, Transportation Planning and Design Section — Date
APPROVED
Chief, Division of Transportation Engineering — Date

DESIGNED BY MCK DRAWN BY SJS CHECKED BY TMB

MONTGOMERY COUNTY
DEPARTMENT OF TRANSPORTATION
DIVISION OF TRANSPORTATION ENGINEERING

BURTONSVILLE ACCESS ROAD

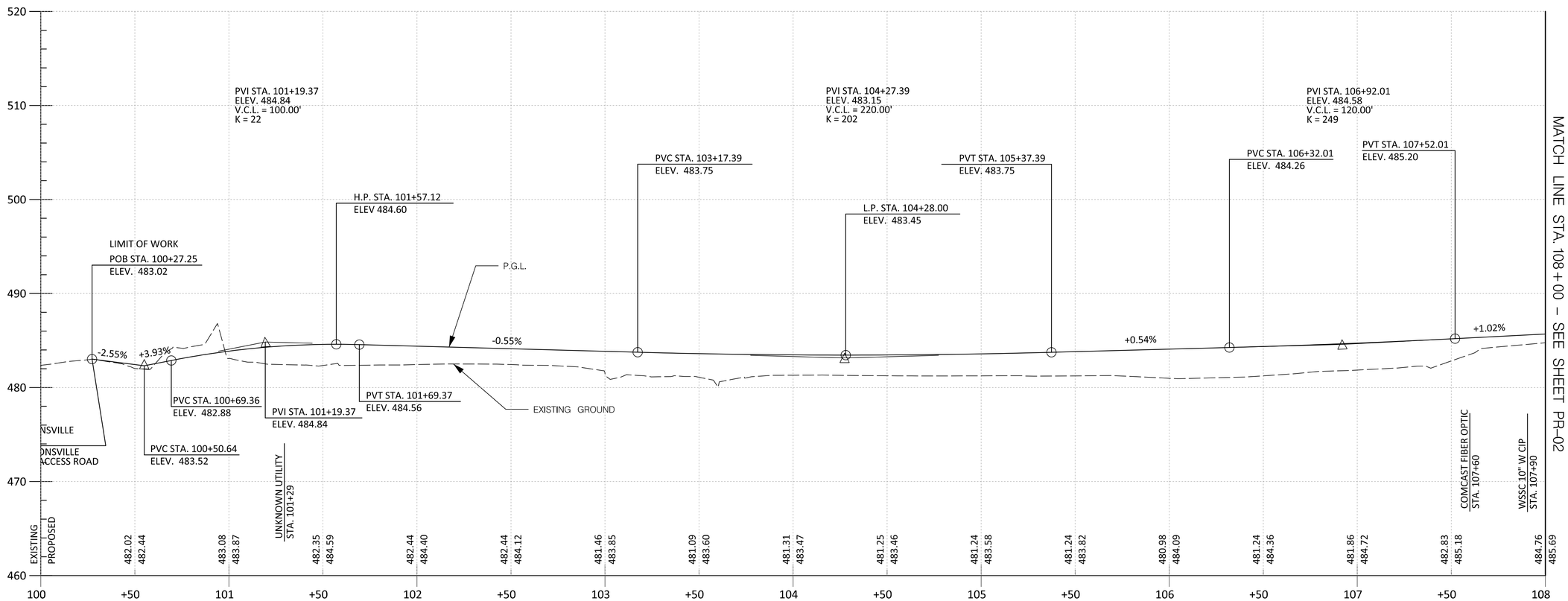
SPENCERVILLE ROAD TO
BURTONSVILLE ELEMENTARY ACCESS ROAD

ROADWAY PLAN

SCALE 1"=30' DATE MAY 6, 2022

DRAWING NO. PS-03 OF 03 SHEET NO. 8 OF 21

PLOTTED: 5/6/2022
FILE: \\sd.rkk.com\rk\Okun\Projects\2020\20097_MCDOTransp\Task 6 - Burtonsville Access Road\cadd\Plans\pHD-HD03_BAR.dgn



BURTONSVILLE ACCESS ROAD

STA. 100+00.00 TO STA. 108+00.00

30' 0 30' 60'

SCALE: 1"=30'

DWG. PR-01

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DESIGN SECTION
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MONTGOMERY COUNTY
DEPARTMENT OF TRANSPORTATION
ROCKVILLE, MARYLAND

RECOMMENDED FOR APPROVAL
Chief, Transportation Planning and Design Section — Date
APPROVED
Chief, Division of Transportation Engineering — Date

DESIGNED BY KBJ DRAWN BY KBJ CHECKED BY XXX

MONTGOMERY COUNTY
DEPARTMENT OF TRANSPORTATION
DIVISION OF TRANSPORTATION ENGINEERING

BURTONSVILLE ACCESS ROAD

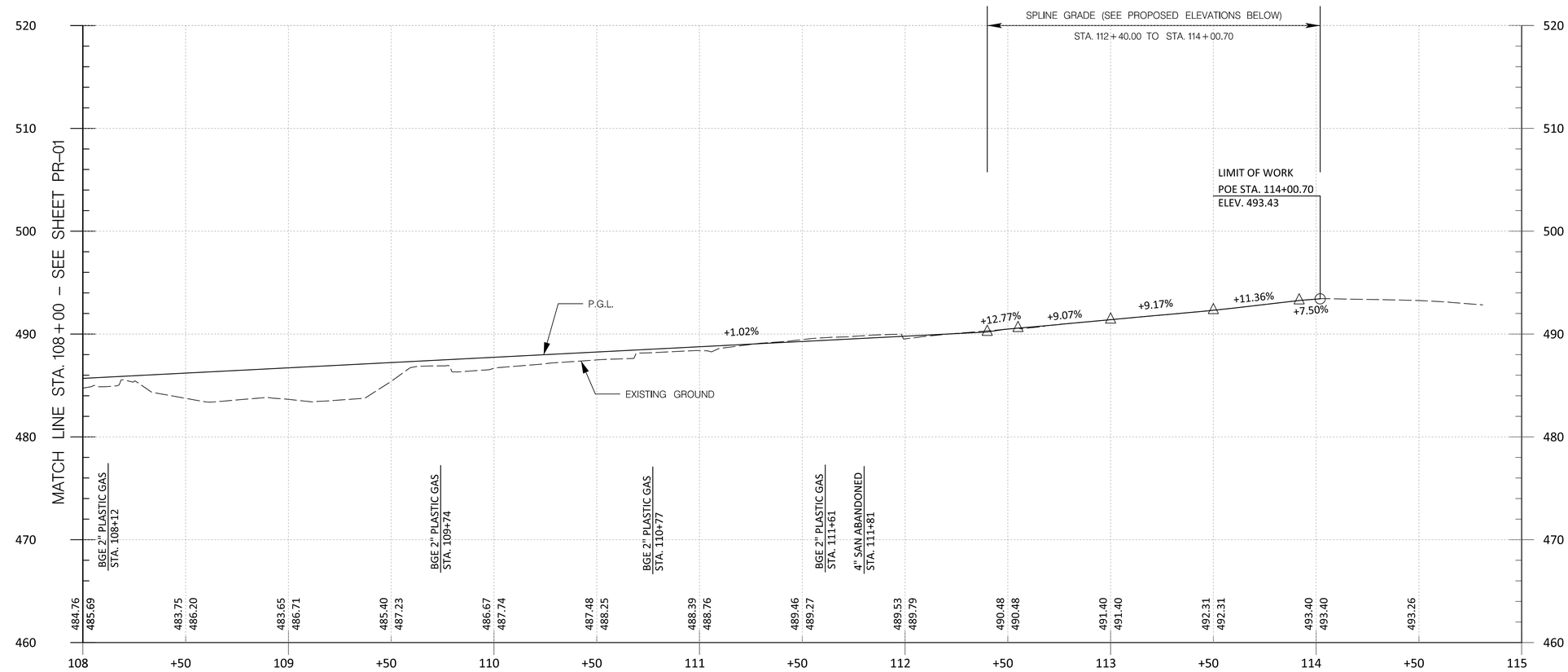
SPENCERVILLE ROAD TO
BUTONSVILLE ELEMENTARY ACCESS ROAD

ROADWAY PROFILES

HORIZONTAL: 1"=30'
SCALE VERTICAL: 1"=5'
DATE MAY 6, 2022

DRAWING NO. PR-01 OF 03
SHEET NO. 9 OF 21

PLOTTED: 5/6/2022
FILE: \\vst.rkk.com\ds\Cloud\Projects\2020\20097_MCDOT\Image\Task 6 – Burtonsville Access Road\cadd\Plans\pHP-0201_BAR.dgn



BURTONSVILLE ACCESS ROAD

STA. 108+00.00 TO STA. 114+01.94

30' 0 30' 60'
SCALE: 1"=30'

DWG. PR-02

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GAITHERSBURG, MARYLAND

CONTACT:
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240-777-7220
DESIGN SECTION
240-777-7221

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MONTGOMERY COUNTY
DEPARTMENT OF TRANSPORTATION
ROCKVILLE, MARYLAND

RECOMMENDED FOR APPROVAL
Chief, Transportation Planning and Design Section — Date
APPROVED
Chief, Division of Transportation Engineering — Date

DESIGNED BY KBJ DRAWN BY KBJ CHECKED BY XXX

MONTGOMERY COUNTY
DEPARTMENT OF TRANSPORTATION
DIVISION OF TRANSPORTATION ENGINEERING

BURTONSVILLE ACCESS ROAD

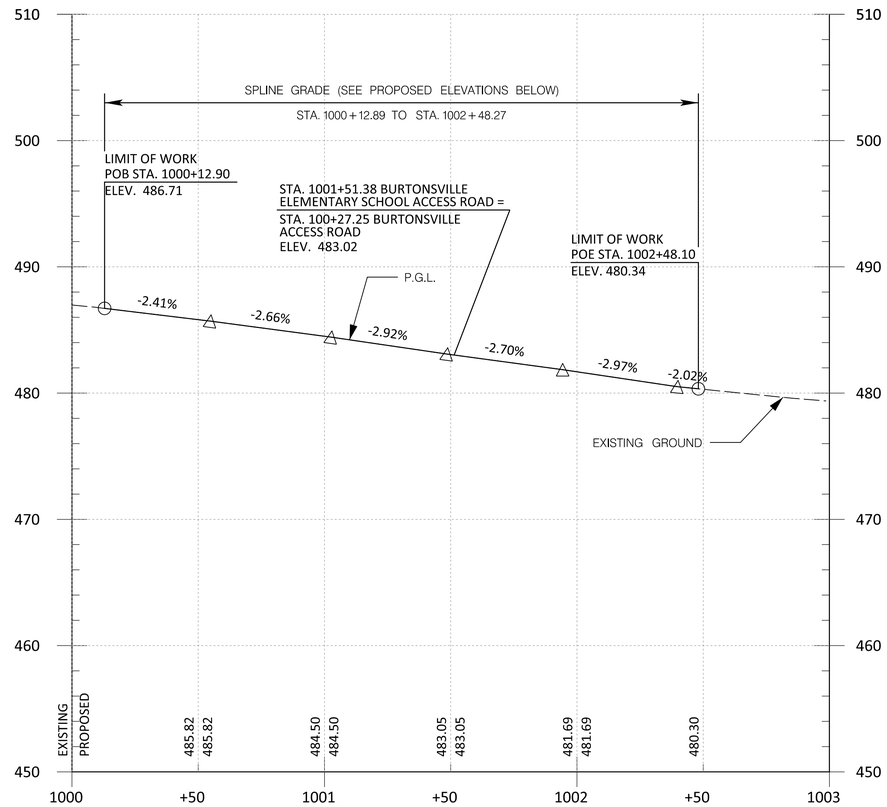
SPENCERVILLE ROAD TO
BUTONSVILLE ELEMENTARY ACCESS ROAD

ROADWAY PROFILE

HORIZONTAL: 1"=30'
SCALE VERTICAL: 1"=5'
DATE MAY 6, 2022

DRAWING NO. PR-02 OF 03
SHEET NO. 10 OF 21

PLOTTED: 5/6/2022
FILE: \\ad.rkk.com\fs\Cloud\Projects\2020\20097_MCDOT\wrep\Task 6 - Burtonsville Access Road\cadd\Plans\prHP-0002_BAR.dgn



BURTONSVILLE ELEMENTARY SCHOOL ACCESS ROAD

STA. 1000+00.00 TO STA. 1003+00.00

30' 0 30' 60'

SCALE: 1"=30'

DWG. PR-03

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DESIGN SECTION
240-777-7221

NO.	REVISION	DATE	BY

MONTGOMERY COUNTY
DEPARTMENT OF TRANSPORTATION
ROCKVILLE, MARYLAND

RECOMMENDED FOR APPROVAL

Chief, Transportation Planning and Design Section — Date

APPROVED

Chief, Division of Transportation Engineering — Date

DESIGNED BY KBJ DRAWN BY KBJ CHECKED BY XXX

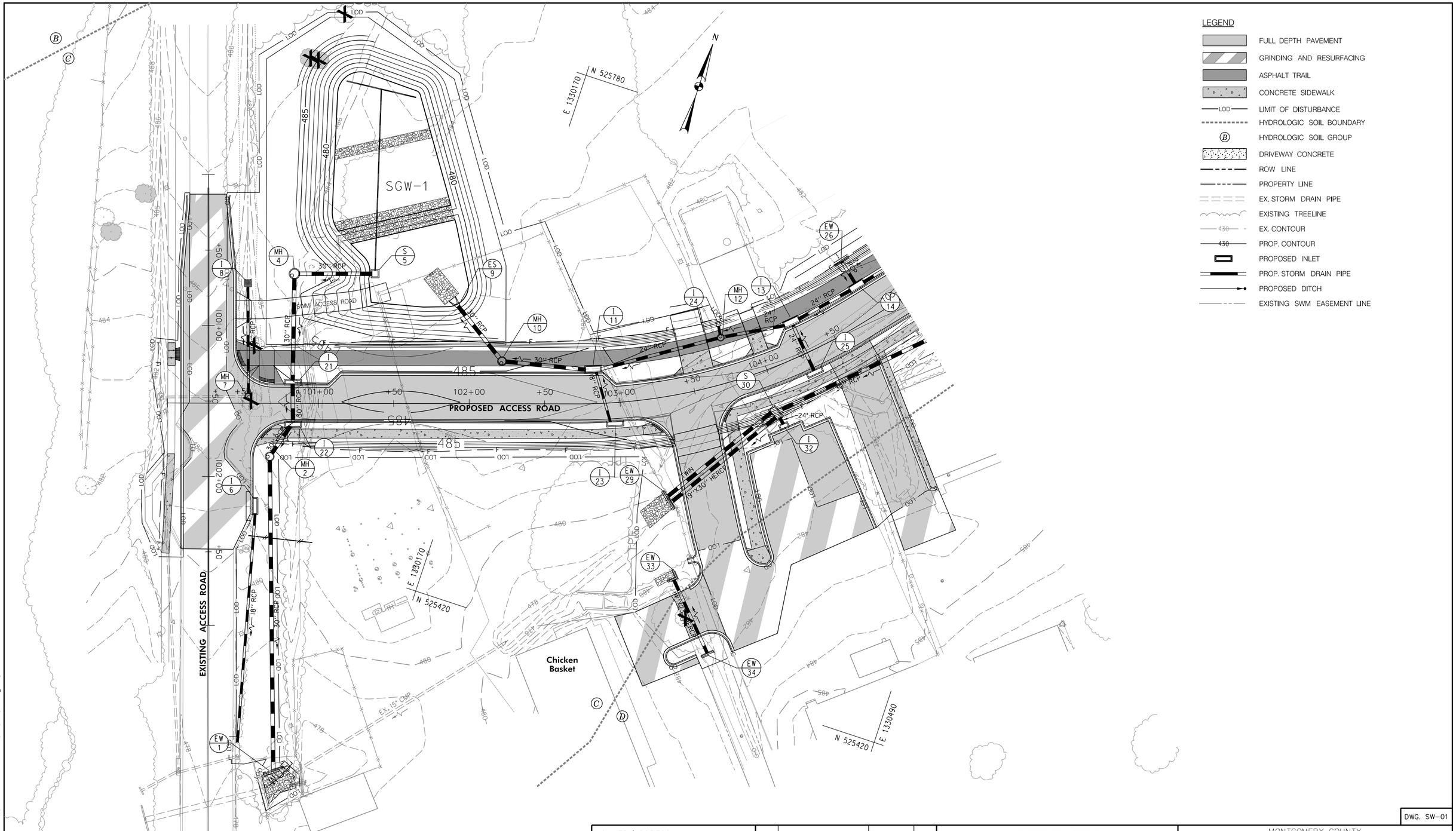
MONTGOMERY COUNTY
DEPARTMENT OF TRANSPORTATION
DIVISION OF TRANSPORTATION ENGINEERING

BURTONSVILLE ACCESS ROAD
SPENCERVILLE ROAD TO
BUTONSVILLE ELEMENTARY ACCESS ROAD
ROADWAY PROFILES

SCALE HORIZONTAL: 1"=30' VERTICAL: 1"=5'
DATE MAY 6, 2022

DRAWING NO. PR-03 OF 03
SHEET NO. 11 OF 21

PLOTTED: 5/6/2022
FILE: \\ad.rkk.com\fs\Cloud\Projects\2020\20097_MCDOTransp\Task 6 - Burtonsville Access Road\cadd\Plans\pr4P-0003_BAR.dgn



DWG. SW-01

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30' 0 30' 60'
SCALE: 1"=30'

OWNER/ADDRESS:
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MONTGOMERY COUNTY
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Chief, Transportation Planning and Design Section — Date

APPROVED

Chief, Division of Transportation Engineering — Date

DESIGNED BY ABD DRAWN BY DEA CHECKED BY MES

MONTGOMERY COUNTY
DEPARTMENT OF TRANSPORTATION
DIVISION OF TRANSPORTATION ENGINEERING

BURTONSVILLE ACCESS ROAD

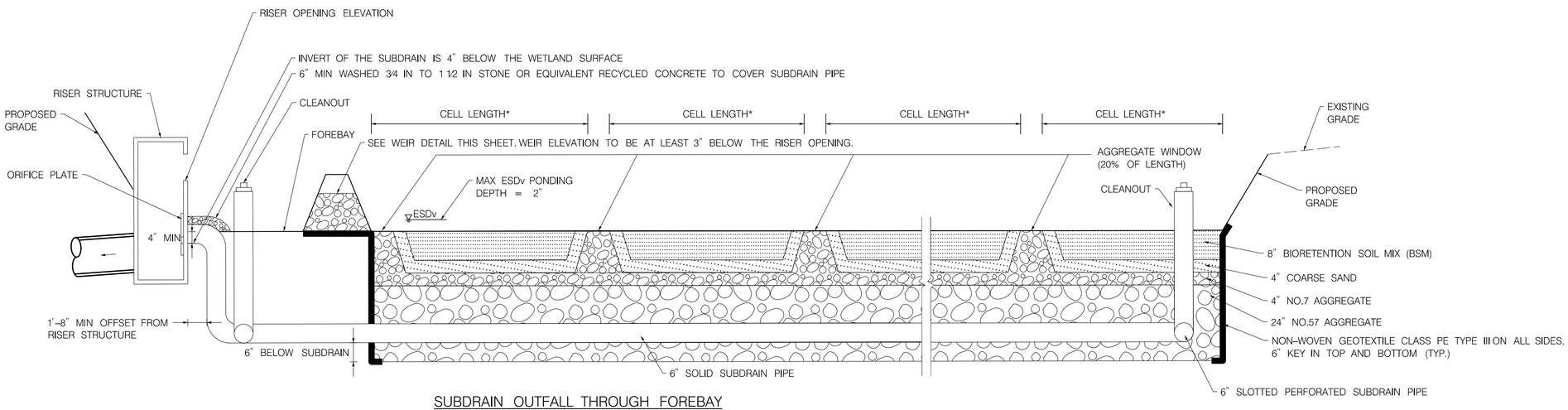
SPENCERVILLE ROAD TO
BURTONSVILLE ELEMENTARY ACCESS ROAD

STORMWATER MANAGEMENT PLAN

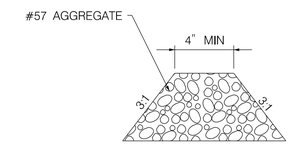
SCALE 1"=30' DATE MAY 6, 2022

DRAWING NO. SMSDR0003 SW-01 OF 01 SHEET NO. 12 OF 21

PLOTTED: 5/6/2022
FILE: \\ad.rkk.com\fs\Cltxd\Projects\2020\2009P_MCDOTransp\Task 6 - Burtonsville Access Road\cadd\Plans\pSW-0001_BAR.dgn



SUBDRAIN OUTFALL THROUGH FOREBAY



WEIR DETAIL

* THE MOST UPSTREAM CELL LENGTH IS THE CLEAR DISTANCE FROM THE DOWNSTREAM TOE OF WEIR TO THE SECOND GRAVEL WINDOW.

SUBMERGED GRAVEL WETLAND TYPICAL SECTION

NOT TO SCALE

DWG. SWD-01

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MONTGOMERY COUNTY
DEPARTMENT OF TRANSPORTATION
DIVISION OF TRANSPORTATION ENGINEERING

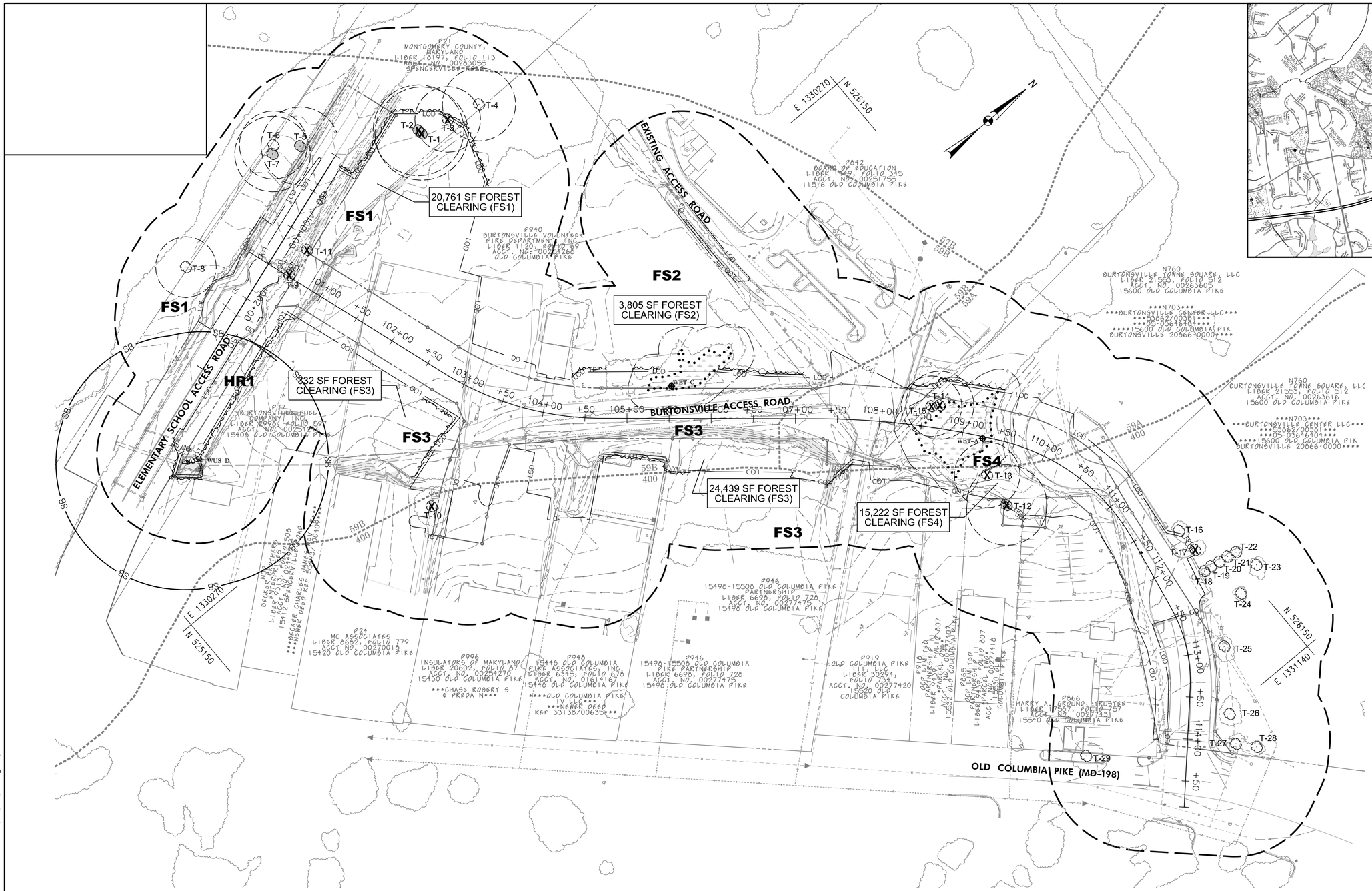
BURTONSVILLE ACCESS ROAD
SPENCERVILLE ROAD TO
BURTONSVILLE ELEMENTARY ACCESS ROAD

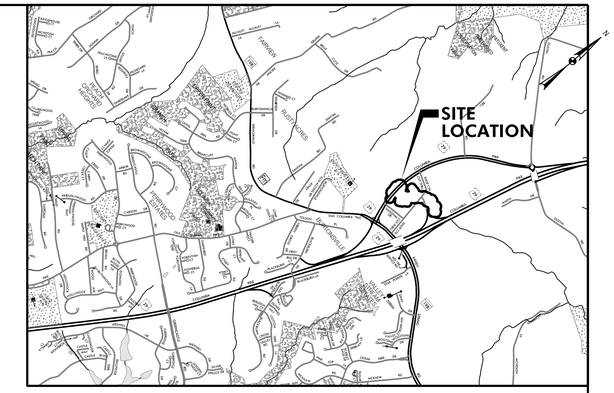
STORMWATER MANAGEMENT DETAILS

SCALE 1"=30' DATE MAY 6, 2022

DRAWING NO. SMSDR0004 SWD-01 OF 01 SHEET NO. 13 OF 21

PLOTTED: 5/6/2022
FILE: \\us.rkk.com\fs\Cloud\Projects\2020\20097_MCDOTransp\Task 6 - Burtonsville Access Road\cadd\Plans\SW-D09_BAR.dgn





VICINITY MAP
SCALE: 1" = 2000'

LEGEND

—480—	SURVEYED EX. CONTOURS
T-21	SIGNIFICANT TREE (24"–29" DBH) w/CRITICAL ROOT ZONE
T-20	SPECIMEN TREE (≥30" DBH) w/CRITICAL ROOT ZONE
T-19	INDIVIDUAL TREES
	TREE TO BE REMOVED
FS1	FOREST STAND
WET-D	WETLAND DATA POINT
—TPF—	TREE PROTECTION FENCE
	FOREST STAND BOUNDARY
	STUDY AREA BOUNDARY
59B 400	SOIL MAP UNIT BOUNDARY
—LOD—	LIMIT OF DISTURBANCE
	FOREST CANOPY
	TREE CANOPY
	PROPOSED TREELINE
	EXISTING RIGHT OF WAY LINE
	PROPERTY BOUNDARY
	WATERS OF THE U.S.
—SB—	150' STREAM BUFFER
—B—	25' WETLAND BOUNDARY
	WETLANDS
	> 25% SLOPES

Christina Simini 5-6-2022

Maryland DNR Qualified Professional Date
Name: Christina Simini
Address: 700 East Pratt St., Suite 500
Baltimore, MD 21202
Phone: 410-462-9386
csimini@rkk.com

NOTES:

1. SEE SHEETS NR-02 THROUGH NR-04 FOR TREE REMOVAL TABLE, PLANTING SCHEDULES, DETAILS, AND NOTES.
2. TREE PROTECTION FENCE IS SHOWN OUTSDE OF THE LOD FOR GRAPHICAL PURPOSES ONLY.
3. WHERE LOD INTERFERES WITH CRZ, ROOT PRUNE ALONG LOD OR EDGE OF EXCAVATION AS DIRECTED BY MARYLAND LICENSED TREE EXPERT.

60' 0 60' 120'
SCALE: 1" = 60'

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

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

NO.	REVISION	DATE	BY

MONTGOMERY COUNTY
DEPARTMENT OF TRANSPORTATION
ROCKVILLE, MARYLAND

RECOMMENDED FOR APPROVAL
Chief, Transportation Planning and Design Section — Date
APPROVED
Chief, Division of Transportation Engineering — Date

DESIGNED BY CAS DRAWN BY DEA CHECKED BY MH

MONTGOMERY COUNTY
DEPARTMENT OF TRANSPORTATION
DIVISION OF TRANSPORTATION ENGINEERING

BURTONSVILLE ACCESS ROAD

NRI / FSD & TREE SAVE PLAN

BASE MAP #220NE04 & 221NE04 TAX MAP #KS561 & KS562
SCALE 1"=60' DATE MAY 6, 2022

DWG. NR-01
SHEET NO. 14 OF 21

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PLOTTED: 5/6/2022
FILE: \\us.rkk.com\ds\Cloud\Projects\2020\20097_MCDOTransp\Task 6 – Burtonsville Access Road\cadd\Plans\xNR-0001_BAR.dgn

RESOURCE DATA TABLE	
FEATURE	ACREAGE
TOTAL FORESTED AREA	1.41 AC.
WETLANDS	0.14 AC.
FORESTED WETLANDS	0.05 AC.
100-YEAR FLOODPLAIN	0 AC.
FORESTED FLOODPLAIN AREA	0 AC.
STREAM BUFFER AREA	0.11 AC.
FORESTED STREAM BUFFER AREA	0 AC.

NOTE: ALL ACREAGE REFERS TO ACRES WITHIN LOD. FORESTED AREA DOES NOT INCLUDE FOREST IN WETLANDS.

TREE CONDITION ASESSMENT GUIDELINES:

EXCELLENT – healthy tree with exceptional growth form; no visible defects; well-formed crown; few minor dead branches acceptable; this tree condition is rare.

GOOD – healthy tree; very minor defects/decay acceptable with callous forming/complete; well-formed crown; minor lean and/or few minor/major dead branches acceptable; vines may be growing along trunk but not present within crown.

FAIR– health questionable/stress evident; structurally sound tree; defects present that do not affect structural integrity; moderate lean; minor/major dead branches may be present; crown not broken out but not necessarily well formed or even; vines may be growing along trunk and within crown.

Ex. *Fair tree could be experiencing insect damage or exhibit a growth form that makes it very susceptible to wind damage in an open setting.*

POOR – significant health problems; may be structurally unsound; may be dead or dying; may contain significant decay; may have broken or missing top/crown; may have heavy lean; vines may be significantly affecting tree health.

Note: These guidelines were developed in-house based on the professional judgment of our Certified Arborists and other senior environmental staff.

SOILS TABLE

Map Unit Symbol	Map Unit Name	K-Factor*	Hydric Rating**	Highly Erodible	Drainage Class	Serpentine Soil	Prime Agricultural
400	Urban land	-	0	No	-	No	No
59A	Belstville silt loam, 0 to 3 percent slopes	0.37	0	No	Moderately well drained	No	No
59B	Belstville silt loam, 3 to 8 percent slopes	0.49	0	No	Moderately well drained	No	No

*Erodibility Coefficient - Value assigned to soil types by NRCS. K > 0.35 are considered to be highly erodible soils outside of Montgomery County.

**Hydric Rating - Value is based on the percentage of hydric soils within the soil type. Non-hydric soils have a value of 0, predominatly non-hydric soils have a value between 0 and 33, partially hydric soils have a value between 33 and 66, predominantly hydric soils have a value between 66 and 99, and hydric soils have a value of 100.

TREE INVENTORY TABLE

Tree Number	Scientific Name	Common Name	DBH	Condition	Removed	Comment
T-1^	*Quercus palustris*	Pin oak	37	Fair	Yes	Broken branches and dieback in crown, large branch removed, and unbalanced crown.
T-2^	*Quercus coccinea*	Scarlet oak	36	Good	Yes	Minor broken branches in the lower canopy.
T-3*	*Nyssa sylvatica*	Black gum	26	Fair	Yes	Broken branches in the crown, thin crown.
T-4*	*Carya glabra*	Pignut hickory	29	Good	No	Twin trunks splits above DBH and some broken branches in crown.
T-5^	*Quercus velutina*	Black oak	31	Fair	No	Twin trunks splits above DBH, branch dieback and broken branches in crown, and thin crown.
T-6*	*Quercus coccinea*	Scarlet oak	27	Fair	No	Leaning, unbalanced crown, and interfering branches from adjacent trees.
T-7^	*Quercus coccinea*	Scarlet oak	30	Fair	No	Twin trunks 27" stem, irregular branching structure, and included bark.
T-8*	*Carya tomentosa*	Mockernut hickory	24	Good	No	Slightly unbalanced crown.
T-9	*Ailanthus altissima*	Tree of heaven	5	Fair	Yes	Trunk wound, cracked and rotting bark on trunk, branch dieback in crown, and thin crown.
T-10	*Quercus palustris*	Pin oak	20	Fair	Yes	Minor deadwood in the lower canopy, dead branches, and dieback in the crown.
T-11	*Pinus virginiana*	Virginia pine	6	Fair	Yes	Twin trunks, one additional 5 inch, unbalanced crown, needle dieback, and located on slope along road.
T-12^	*Acer saccharinum*	Silver maple	32	Fair	Yes	Triple trunk above dbh, water sprouts, trunk damage, and large branch removed in lower canopy.
T-13*	*Acer rubrum*	Red maple	26	Fair	Yes	Bend in leader, exposed roots, and vines into crown.
T-14*	*Acer rubrum*	Red maple	27	Fair	Yes	Twin trunks splits above DBH, dead branches in crown, included bark, and exposed roots.
T-15*	*Juniperus virginiana*	Eastern red cedar	24	Fair	Yes	Needle and branch dieback in crown, vines entering crown from adjacent shrubs.
T-16	*Gleditsia triacanthos*	Thornless honey locust	3	Good	No	Four stems, three additional, 2 inches each.
T-17	*Zelkova serrata*	Japanese zelkova	9	Fair	Yes	Peeling and rotting bark, old guy wire never removed and now growing into trunk.
T-18	*Lagerstroemia sp.*	Crape myrtle	3	Good	No	Twin trunks, one additional 2 inch stem, minor pruning wounds healed.
T-19	*Lagerstroemia sp.*	Crape myrtle	2	Good	No	Triple trunks, two additional 2 inch stems, minor pruning wounds healed.
T-20	*Lagerstroemia sp.*	Crape myrtle	3	Good	No	Triple trunks two additional 3 inch stems, minor pruning wounds healed.
T-21	*Lagerstroemia sp.*	Crape myrtle	3	Good	No	Triple trunks two additional 3 inch stems, minor pruning wounds healed.
T-22	*Lagerstroemia sp.*	Crape myrtle	3	Good	No	Triple trunks, one 3 inch and one 2 inch, minor pruning wounds healed.
T-23	*Zelkova serrata*	Japanese zelkova	7	Poor	No	10 inch trunk wound rotting, trunk damage, old guy wire never removed trunk growing around it.
T-24	*Zelkova serrata*	Japanese zelkova	7	Good	No	Minor included bark.
T-25	*Zelkova serrata*	Japanese zelkova	5	Fair	No	Bark damage and rotting trunk wounds observed, dead branches in crown.
T-26	*Zelkova serrata*	Japanese zelkova	7	Good	No	Minor included bark, old guy wire never removed trunk growing around it.
T-27	*Zelkova serrata*	Japanese zelkova	7	Good	No	Minor included bark, old guy wire never removed trunk growing around it.
T-28	*Zelkova serrata*	Japanese zelkova	6	Good	No	Minor included bark, old guy wire never removed trunk growing around it.
T-29	*Pyrus calleryana*	Bradford pear	14	Fair	No	Slight lean, trunk wounds partially healed and partially rotting, topped, and utility pruning.

NOTE: Significant trees denoted with *. Specimen trees denoted with ^.

FOREST STAND DELINEATION - Methods

The investigation methods employed for this forest stand delineation were based on the Montgomery County Code Chapter 22A using methodology described in the *Environmental Guidelines, Guidelines for Environmental Management of Development in Montgomery County* (Maryland-National Capitol Park and Planning Commission (M-NCPPC), 2000); and *Trees, Approved Technical Manual* ((MNCPPC), 1992). The *Trees, Approved Technical Manual* defines a forest as "a biological community dominated by trees and other woody plants covering a land area of 10,000 square feet or greater. Forest includes (1) areas that have at least 100 trees per acre with at least 50% of those having a two-inch or greater diameter at 4.5 feet above the ground and larger; and (2) forest areas that have been cut but not cleared. Forest does not include orchards."

Topographic maps, soil surveys, and digital aerial photographs were reviewed to identify on-site soils and probable forest stand boundaries prior to field investigations. Forest stands were delineated based on community type, successional stage, and overall forest condition. An inventory of all individual and roadside trees outside of forest stands at diameter at breast height (4.5 feet, DBH), significant trees (≥ 24 inches and < 30 inches DBH), and specimen trees (≥ 30 inches DBH or 75% of the size of the state champion), if applicable, was completed within the study area. Species, DBH, and condition were recorded for each of the inventoried trees. The condition of each tree was assessed by an ocular estimation of growth form, visible signs of decay, live crown ratio, and indications of disease or insect infestation. Each inventoried tree was numbered consecutively and flagged with blue flagging. Data obtained from the field reconnaissance were collected with an iPad, and trees were located using GPS followed by traditional survey.

FOREST STAND DELINEATION – Results

RK&K environmental scientists conducted a walkthrough forest stand delineation within the project study area in October 2021. The field investigation identified four forest stands, designated as FS1, FS2, FS3, and FS4; one hedgerow, designated as H1; and 29 individual, roadside, significant, or specimen trees within the project study area.

FS1: Late-successional White Oak Association Forest

Forest stand 1 (FS1) is a late-successional White Oak Association forest located on the southwest side of the project study area, north of the intersection of Spencerville Road and Old Columbia Pike. Canopy closure is approximately 90 percent and the stand contains inclusions of significant and specimen trees. Dominant canopy species in FS1 are within the 12 to 20 inch and 20 to 30 inch DBH size and include southern red oak (*Quercus falcata*), pin oak (*Quercus palustris*), blackgum (*Nyssa sylvatica*), and white oak (*Quercus alba*). The understory is dominated by blackgum, pignut hickory (*Carya glabra*), sweet cherry (*Prunus avium*), and American holly (*Ilex opaca*). The herbaceous layer is dominated by greenbrier (*Smilax rotundifolia*), Amur honeysuckle (*Lonicera maackii*), wintercreeper (*Euonymus fortunei*), and low-bush blueberry (*Vaccinium pallidum*). Downed woody debris is approximately 40 percent and invasive species cover is approximately 10 percent. Invasive species present include bush honeysuckle and wintercreeper. Overall, the forest stand is in good condition with a high retention value due to inclusion of significant and specimen trees and successional stage.

FS2: Mid-successional Silver Maple-American Elm Association Forest

Forest stand 2 (FS2) is a mid-successional Silver Maple-American Elm Association forest located south of and adjacent to Burtonsville Elementary School and surrounds Wetland C. Canopy closure is approximately 70 percent. Dominant canopy species in FS2 are within the 6 to 11 inch and 12 to 20 inch DBH size class and include red maple (*Acer rubrum*) and American elm (*UImus americana*). Dead green ash (*Fraxinus pennsylvanica*) was observed throughout the stand and inclusions of silver maple (*Acer saccharinum*) and eastern cottonwood (*Populus deltoides*) were observed. The understory is dominated by Amur honeysuckle, green ash, Bradford pear (*Pyrus calleryana*), common persimmon (*Diospyros virginiana*), willow species (*Salix* sp.), and poison ivy (*Toxicodendron radicans*). Dominant species in the herbaceous layer include multiflora rose (*Rosa multiflora*), Japanese stilt grass (*Microstegium vimineum*), deer-tongue grass (*Dichanthelium clandestinum*), and poison ivy. Downed woody debris is approximately 30 percent and invasive species cover is approximately 45 percent. Invasive species present include Bradford pear, Japanese stilt grass, and multiflora rose. Overall, the stand is in fair condition with a high retention value due to its location within nontidal wetland buffers.

FS3: Early-successional Red Maple Association Forest

Forest stand 3 (FS3) is an early-successional Red Maple Association forest located south of Wetlands B and C and surrounds several businesses. Canopy closure is approximately 40 percent. Dominant canopy species in FS3 are within the 6 to 11 inch DBH size class with inclusions of trees greater than 12 inches DBH and include red maple, willow species, eastern cottonwood, and black locust (*Robinia pseudoacacia*). The understory is dominated by Amur honeysuckle, willow species, silk tree (*Albizia julibrissin*), and green ash. Dominant species in the herbaceous layer include Virginia creeper (*Parthenocissus quinquefolia*), grape species (*Vitis* sp.), and Japanese honeysuckle (*Lonicera japonica*). Downed woody debris is approximately 35 percent and invasive species cover is approximately 75 percent. Invasive species present include silk tree and Japanese honeysuckle. Overall, the stand is in fair condition with a low retention value due to high invasive species cover, trash throughout the stand, and the absence of wetland features, waterway features, or significant/specimen trees.

FS4: Mid-successional Silver Maple-American Elm Association Forest

Forest stand 4 (FS4) is a mid-successional Silver Maple-American Elm Association Forest located between Burtonsville Elementary School and the Burtonsville Town Shopping Center and includes Wetland A. Three significant trees and dead ash trees in the center of the stand were observed within FS4. Canopy closure is approximately 40 percent. Dominant canopy species in FS4 are within the 6 to 11 inch and 12 to 20 inch DBH size class and include red maple and silver maple. The understory is dominated by green ash, common persimmon, multiflora rose, pin oak, grape species, and amur honeysuckle. Some willow species and eastern red cedar (*Juniperus virginiana*) were also observed in the understory. Dominant species in the herbaceous layer include Virginia creeper, greenbrier, poison ivy, Japanese stilt grass, English ivy (*Hedera helix*), aster species, and deer-tongue grass. Downed woody debris is approximately 80 percent and invasive species cover is approximately 50 percent. Invasive species present include Japanese stilt grass and English ivy. Overall, the stand is in fair condition with a high retention value due to its function as a buffer for a forested wetland and inclusion of several significant and one specimen tree.

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PLOTTED: 5/6/2022
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100 EDISON PARK DRIVE
GAITHERSBURG, MARYLAND

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NO.	REVISION	DATE	BY

MONTGOMERY COUNTY
DEPARTMENT OF TRANSPORTATION
ROCKVILLE, MARYLAND

RECOMMENDED FOR APPROVAL

Chief, Transportation Planning and Design Section — Date

APPROVED

Chief, Division of Transportation Engineering — Date

DESIGNED BY CAS DRAWN BY DEA CHECKED BY MH

MONTGOMERY COUNTY
DEPARTMENT OF TRANSPORTATION
DIVISION OF TRANSPORTATION ENGINEERING

BURTONSVILLE ACCESS ROAD

NRI / FSD NOTES AND TABLES

BASE MAP #220NE04 & 221NE04 TAX MAP #KS561 & KS562

SCALE DATE MAY 6, 2022

DWG. NR-02

SHEET NO. 15 OF 21

TREE SAVE NOTES:

1. TREE SAVE PLAN WAS PREPARED BY CHRISTINA SIMINI, QP, CA. FIELD DATA COLLECTED BY STACEY YOUNG, QP, AND ANITA ALEXANDER, QP, ON OCTOBER 11 AND 13, 2021.
2. SEE FOREST STAND DELINEATION RESULTS ON SHEET NR-02 FOR DESCRIPTION OF FOREST STANDS.
3. THE PROPOSED LIMITS OF DISTURBANCE ARE 183,462 SF, WHICH INCLUDES 63,557 SF OF FOREST REMOVAL. THE PROPOSED WORK ALSO INCLUDES THE REMOVAL OF 11 INDIVIDUAL TREES - FOUR SIGNIFICANT TREES, THREE SPECIMEN TREES, AND FOUR ROADSIDE TREES.
4. THREE SPECIMEN TREES (TOTAL DBH OF 105") WILL BE REMOVED AS A RESULT OF THE PROJECT. SPECIMEN TREE IMPACTS WILL BE MITIGATED ON-SITE WITH 1"OF REPLACEMENT FOR EVERY 4"OF CALIPER REMOVED.
5. FOREST IMPACTS OVER 20,000 SF WILL BE MITIGATED BY REFORESTATION AT A 1:1 RATIO.

FOREST STAND DESCRIPTION TABLE

CATEGORY	FS1	FS2	FS3	FS4
ACREAGE*	2.47	1	0.93	0.55
DOMINANT/CO-DOMINANT SPECIES	Southern red oak, pin oak, black gum, white oak	Red maple, American elm	Red maple, willow species, eastern cottonwood, black locust	Red maple and silver maple
SIZE CLASS	12-20" and 20-30"	6-11" and 12-20"	6-11"	6-11" and 12-20"
PERCENT CANOPY CLOSURE	90	70	40	40
NUMBER OF CANOPY LAYERS	3	3	3	3
% OF FOREST FLOOR COVERED BY HERBACEOUS PLANTS	25	80	85	90
% DOWNED WOODY MATERIAL	40	30	35	80
INVASIVE SPECIES	Bush honeysuckle and wintercreeper	Bradford pear, Japanese stilt grass, multiflora rose	Silk tree and Japanese honeysuckle	Japanese stilt grass and English ivy
CONDITION	Good	Fair	Fair	Fair
FUNCTION	High habitat value	Moderate habitat value	Low habitat value	Moderate habitat value
RETENTION POTENTIAL	High - inclusion of multiple significant and specimen trees	High - inclusion of wetland	Low - no wetlands or waterways, no significant/specimen trees, early successional stage	High - inclusion of wetland, multiple significant, and one specimen trees
TRANSPLANT AND REGENERATION POTENTIAL	Moderate	Moderate	Moderate	Moderate
FIELD OBSERVATIONS	Specimen and significant trees within forest stand, mature successional stage, low invasive cover, sparse herbaceous layer.	Emergent wetlands on edge of forest stand, inclusion of Bradford pear stand, may have previously had different hydrology.	Dead ash trees, sparse herbaceous layer, trash throughout, ditch running through stand, steep slopes	Forested wetland within center of forest stand, some significant and one specimen tree, dead green ash in center of forested wetland.

*Within tract area

NRI/FSD NOTES:

1. THE PROJECT STUDY AREA IS LOCATED ON THE BELOW PRIVATE PARCELS:
   a. TAX ID NO. 05-00251755, OWNED BY BOARD OF EDUCATION, 11516 OLD COLUMBIA PIKE, SILVER SPRING, MD, 6.81 AC;
   b. TAX ID NO. 05-03646404, OWNED BY BURTONSVILLE CENTER LLC, OLD COLUMBIA PIKE, BURTONSVILLE, MD, 26.25 AC;
   c. TAX ID NO. 05-00277431, OWNED BY ARBAIZA INVESTMENTS OF BURTONSVILLE, 15540 OLD COLUMBIA PIKE, BURTONSVILLE, MD, 1.05 AC;
   d. TAX ID NO.S 05-00277418 & 05-00277407, OWNED BY OCP LIMITED PARTNERSHIP 2, 15530 & 15532 OLD COLUMBIA PIKE, BURTONSVILLE, MD, 0.47 & 0.36 AC;
   e. TAX ID NO. 05-00277420, OWNED BY OLD COLUMBIA PIKE 3RD LLC, 15520 OLD COLUMBIA PIKE, BURTONSVILLE, MD, 0.74 AC;
   f. TAX ID NO. 05-00277475, OWNED BY 15498-15508 OCP PTNSHP, 15498 OLD COLUMBIA PIKE, BURTONSVILLE, MD, 1.93 AC;
   g. TAX ID NO.S 05-01614167 & 05-01614156, OWNED BY OLD COLUMBIA PIKE IV LLC, 15448 & 15440 OLD COLUMBIA PIKE, BURTONSVILLE, MD, 0.59 & 0.27 AC;
   h. TAX ID NO. 05-00254270, OWNED BY ROBERT S & FREDA N CHASE, 15430 OLD COLUMBIA PIKE, BURTONSVILLE, MD, 1.00 AC;
   i. TAX ID NO. 05-00270018, OWNED BY MC ASSOCIATES, 15420 OLD COLUMBIA PIKE, BURTONSVILLE, MD, 0.95 AC;
   j. TAX ID NO. 05-00254246, OWNED BY BURTONSVILLE FUEL COMPANY INC, 15408 OLD COLUMBIA PIKE, BURTONSVILLE, MD, 1.44 AC;
   k. TAX ID NO. 05-00249945, OWNED BY M-NCPPC, 15501 ATHEY RD, BURTONSVILLE, MD, 15.42 AC;
   l. TAX ID NO. 05-00254268, OWNED BY BURTONSVILLE VOLUNTEER FIRE DEPARTMENT, OLD COLUMBIA PIKE, BURTONSVILLE, MD, 3.78 AC;
   m. TAX ID NO. 05-00283055, OWNED BY MONTGOMERY COUNTY MARYLAND, SPENCERVILLE RD, BURTONSVILLE, MD, 3.06 AC;
   n. TAX ID NO. 05-02449554, OWNED BY JAMES CHARLES BECKER, REV TR, 15412 SPENCERVILLE CT, SPENCERVILLE, MD, 0.41 AC;
   o. AND STATE OF MARYLAND RIGHT-OF-WAY (NO TAX ID NO. OR PARCEL INFORMATION). THE TOTAL PROJECT STUDY AREA IS 16.40 ACRES. THE PROJECT LOD IS 4.19 ACRES.
2. PROPERTY BOUNDARIES WERE OBTAINED FROM PUBLICLY AVAILABLE MONTGOMERY COUNTY GIS DATA. SOILS DATA WERE OBTAINED FROM THE MONTGOMERY COUNTY SOIL SURVEY.
3. DIAMETERS OF INDIVIDUAL, SIGNIFICANT, OR SPECIMEN TREES WERE MEASURED AT DBH USING A FORESTRY DIAMETER TAPE. THE TREE INVENTORY IDENTIFIED 29 INDIVIDUAL TREES OUTSIDE OF FOREST STANDS, AND 7 SIGNIFICANT (24"-29" DBH) TREES AND 5 SPECIMEN TREES (>30" DBH) WITHIN FOREST STANDS IN THE PROJECT STUDY AREA. NO NATIONAL, STATE, OR COUNTY CHAMPION TREES OR TREES AT 75% OF THE CURRENT STATE CHAMPION WERE OBSERVED WITHIN THE PROJECT STUDY AREA.
4. NRI/FSD PLANS WERE PREPARED BY CHRISTINA SIMINI, QP, CA. FIELD DATA COLLECTED BY STACEY YOUNG, QP, AND ANITA ALEXANDER, QP, ON OCTOBER 11 AND 13, 2021.
5. A WETLAND AND WATERWAY DELINEATION WAS CONDUCTED WITHIN THE PROJECT STUDY AREA AND FEATURE BOUNDARIES WERE COLLECTED USING TRADITIONAL SURVEY AND GPS. ONE INTERMITTENT WATERWAY WAS IDENTIFIED AND ONE PALUSTRINE FORESTED WETLAND AND ONE PALUSTRINE EMERGENT WETLAND WAS IDENTIFIED WITHIN THE PROJECT STUDY AREA DURING FIELD INVESTIGATIONS.
6. 100-YEAR FLOODPLAIN DATA ARE FROM FEDERAL FEMA GIS DATA. PANEL NO.S 24031C0380D AND 24031C0385D (EFFECTIVE DATE 9/29/2006) – ZONE X ARE OF MINIMAL FLOOD HAZARD WITHIN THE PROJECT STUDY AREA. FEMA FLOODPLAIN MAPPING INDICATES THAT NO 100-YEAR FLOODPLAIN IS LOCATED WITHIN THE PROJECT STUDY AREA.
7. AREAS OF STEEP SLOPES (25% OR GREATER) OCCUR ALONG THE EDGE OF BURTONSVILLE ACCESS ROAD BETWEEN THE TWO AREAS OF FOREST STAND 1 AND WITHIN THE EASTERN PORTION OF FOREST STAND 1; ALONG THE NORTHERN EDGE OF FOREST STAND 2; THE CENTER LENGTH OF FOREST STAND 3; AND SMALL AREAS OF FOREST STAND 4.
8. AN RTE INFORMATION REQUEST LETTER WAS SUBMITTED TO DNR-WH ON NOVEMBER 17, 2021. A LETTER RESPONSE FROM DNR-WH DATED JANUARY 4, 2022, INDICATES THAT THERE ARE NO STATE RTE RECORDS WITHIN THE BOUNDARIES OF THE PROJECT STUDY AREA. THE MDNR-ERP ONLINE AQUATIC RESOURCES PRE-SCREENING TOOL DID NOT INDICATE THE PRESENCE OF ANY SENSITIVE SPECIES PROJECT REVIEW AREAS OR TROUT POPULATIONS WITHIN THE BURTONSVILLE ACCESS ROAD PROJECT STUDY AREA. THE MAJORITY OF THE PROJECT STUDY AREA IS WITHIN A TIER II CATCHMENT WITH ASSIMILATIVE CAPACITY. A USFWS IPAC ONLINE DATABASE SEARCH CONDUCTED ON OCTOBER 21, 2021, INDICATES THAT ONE FEDERAL THREATENED SPECIES, THE NORTHERN LONG-EARED BAT (NLEB) (*MYOTIS SEPTENTRIONALIS*) MAY OCCUR, AND NO CRITICAL HABITATS OCCUR WITHIN THE PROJECT STUDY AREA. SINCE THE BURTONSVILLE ACCESS ROAD PROJECT PROPOSES TO CLEAR LESS THAN 15 ACRES OF FOREST AND DOES NOT CONTAIN WATERWAYS, THE PROJECT WILL NOT HAVE AN ADVERSE EFFECT ON NLEB HABITAT.
9. NO RTE SPECIES WERE OBSERVED ON SITE.
10. A CULTURAL RESOURCE INFORMATION REQUEST SENT ON NOVEMBER 18, 2021. A RESPONSE RECEIVED FROM MONTGOMERY COUNTY PLANNING ON DECEMBER 15, 2021, INDICATED THAT NO HISTORIC AND CULTURAL RESOURCES WOULD BE AFFECTED WITHIN THE PROJECT STUDY AREA.
11. THE PROJECT AREA IS LOCATED WITHIN THE ANACOSTIA RIVER WATERSHED (MDE 8-DIGIT 02140205) AND THE ROCKY GORGE DAM WATERSHED (MDE 8-DIGIT 02131107), BOTH WITH THE DESIGNATED STREAM USE CLASS I-P, WATER CONTACT RECREATION, PROTECTION OF AQUATIC LIFE, AND PUBLIC WATER SUPPLY.
12. THE PROJECT IS LOCATED OUTSIDE OF SPECIAL PROTECTION AND PRIMARY MANAGEMENT AREAS.
13. FIELD SURVEY WAS CONDUCTED FOR THE MAJORITY OF THE PROJECT STUDY AREA AND SUPPLEMENTED WITH 2-FOOT GIS CONTOURS.
14. THE PURPOSE OF THE PROJECT IS TO EXTEND BURTONSVILLE ACCESS ROAD FROM THE INTERSECTION OF BURTONSVILLE TOWN SQUARE SHOPPING CENTER AT OLD COLUMBIA PIKE/MD-198 TO THE BURTONSVILLE ELEMENTARY SCHOOL ACCESS ROAD, LOCATED IN SILVER SPRING, MONTGOMERY COUNTY, MARYLAND. THE PROJECT INCLUDES THE CONSTRUCTION OF THE BURTONSVILLE ACCESS ROAD (DISTANCE OF APPROXIMATELY 1,300 LINEAR FEET), A 10-FOOT-WIDE SHARED USE PATH ON THE NORTH SIDE OF THE BURTONSVILLE ACCESS ROAD, MODIFICATIONS TO EXISTING DRIVEWAYS AND PARKING LOTS, AND ADJUSTMENTS TO EXISTING CURB LINES AND SIDEWALKS WHERE THE BURTONSVILLE ACCESS ROAD CONNECTS TO OLD COLUMBIA PIKE/MD-198 AND THE BURTONSVILLE ELEMENTARY SCHOOL ACCESS ROAD.
15. THIS PROJECT QUALIFIES FOR AN FCP EXEMPTION UNDER SECTIONS 22A-5(E) AND 22A-9. SEE TREE SAVE NOTES FOR DETAILS ON FOREST CLEARING AND TREE REMOVALS.

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GAITHERSBURG, MARYLAND

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

NO.	REVISION	DATE	BY

MONTGOMERY COUNTY
DEPARTMENT OF TRANSPORTATION
ROCKVILLE, MARYLAND

RECOMMENDED FOR APPROVAL

Chief, Transportation Planning and Design Section — Date

APPROVED

Chief, Division of Transportation Engineering — Date

DESIGNED BY CAS DRAWN BY DEA CHECKED BY MH

MONTGOMERY COUNTY
DEPARTMENT OF TRANSPORTATION
DIVISION OF TRANSPORTATION ENGINEERING

BURTONSVILLE ACCESS ROAD

NRI / FSD NOTES AND TABLES

BASE MAP #220NE04 & 221NE04 TAX MAP #KS561 & KS562

SCALE DATE MAY 6, 2022

DWG. NR-03

SHEET NO. 16 OF 21

INSPECTIONS

All field inspections must be requested by the applicant.

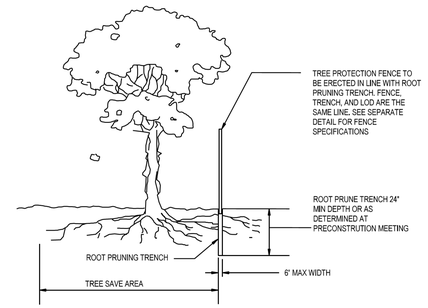
Field Inspections must be conducted as follows:

Plans without Planting Requirements

1. After the limits of disturbance have been staked and flagged, but before any clearing or grading begins.
2. After necessary stress reduction measures have been completed and protection measures have been installed, but before any clearing and grading begin and before release of the building permit.
3. After completion of all construction activities, but before removal of tree protection fencing, to determine the level of compliance with the provision of the forest conservation.

Additional Requirements for Plans with Planting Requirements

4. Before the start of any required reforestation and afforestation planting.
5. After the required reforestation and afforestation planting has been completed to verify that the planting is acceptable and prior to the start the maintenance period.
6. 2 years after reforestation and afforestation have been completed, to determine survival and assess necessary maintenance activities for the remaining duration of the maintenance and management period.
7. At the end of the maintenance period to determine the level of compliance with the provisions of the planting plan, and if appropriate, release of the performance bond.



NOTES:

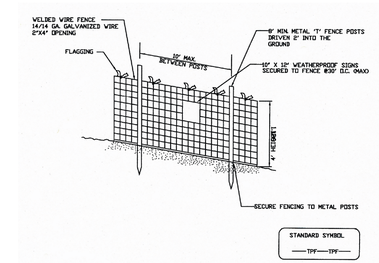
1. RETENTION AREAS WILL BE SET AS PART OF THE REVIEW PROCESS AND PRECONSTRUCTION MEETING.
2. BOUNDARIES OF RETENTION AREAS MUST BE STAKED AT THE PRECONSTRUCTION MEETING AND FLAGGED PRIOR TO TRENCHING.
3. EXACT LOCATION OF TRENCH SHALL BE DETERMINED IN THE FIELD IN COORDINATION WITH THE FOREST CONSERVATION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

ROOT PRUNING DETAIL

NTS

Tree Protection Fence Detail

Not to scale



NOTES

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

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

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

Pre-Construction

1. An on-site pre-construction meeting is required after the limits of disturbance have been staked and flagged and before any land disturbance.

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

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

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

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

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

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

During Construction

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

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

Post-Construction

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

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

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

DWG. NR-04

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GAITHERSBURG, MARYLAND

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

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MONTGOMERY COUNTY
DEPARTMENT OF TRANSPORTATION
ROCKVILLE, MARYLAND

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Chief, Division of Transportation Engineering — Date

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MONTGOMERY COUNTY
DEPARTMENT OF TRANSPORTATION
DIVISION OF TRANSPORTATION ENGINEERING

BURTONSVILLE ACCESS ROAD

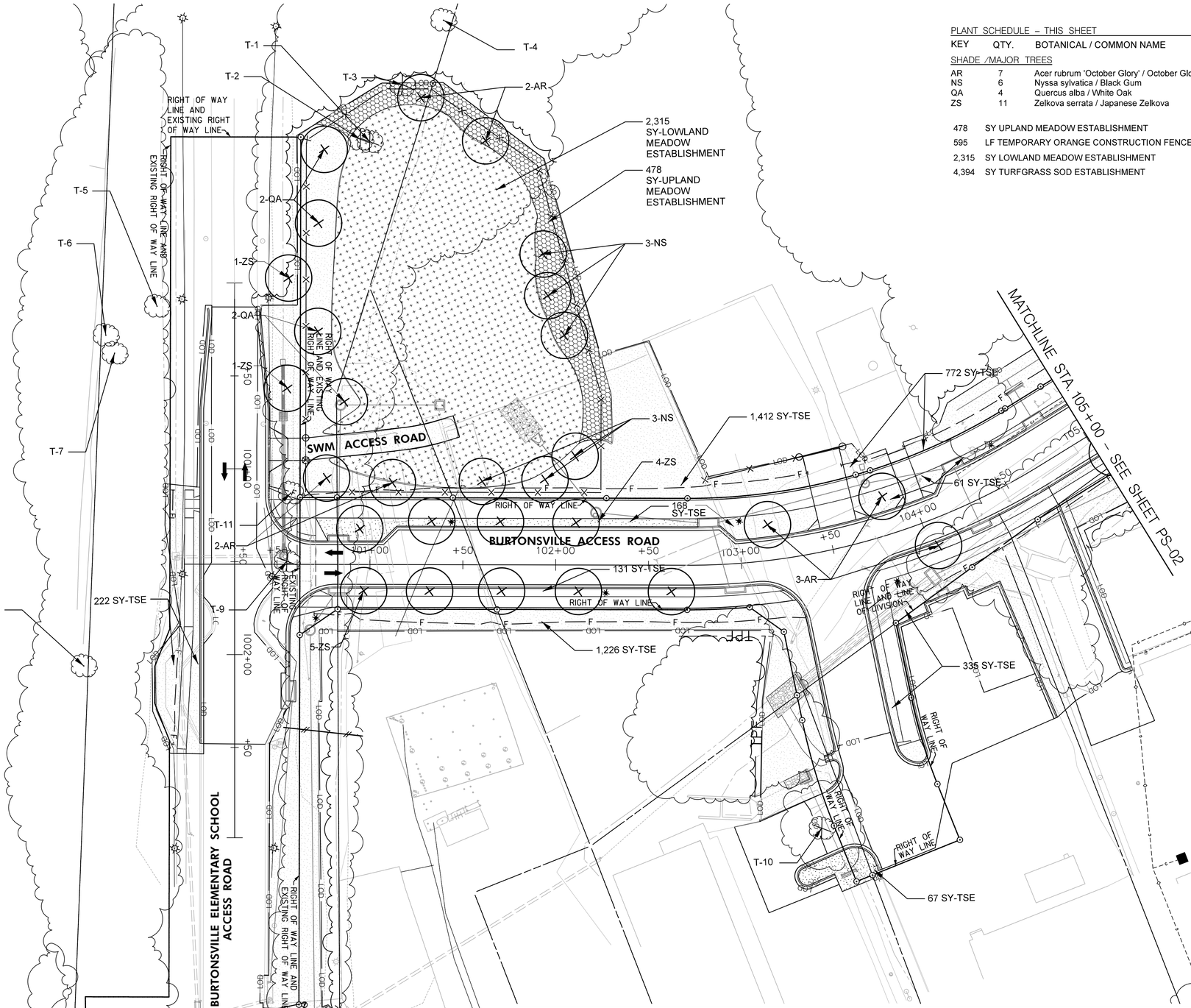
NRI / FSD TREE SAVE DETAILS

BASE MAP #220NE04 & 221NE04 TAX MAP #KS561 & KS562

SCALE DATE MAY 6, 2022

SHEET NO. 17 OF 21

PLOTTED: 5/6/2022
FILE: \\vat.rkk.com\fs\Cloud\Projects\2020\20097_MCDOT\Tasks\Task 6 – Burtonsville Access Road\cadd\Plans\sNR-0004_BAR.dgn



PLANT SCHEDULE – THIS SHEET

KEY	QTY.	BOTANICAL / COMMON NAME	SIZE	ROOT	COMMENTS
SHADE /MAJOR TREES					
AR	7	Acer rubrum 'October Glory' / October Glory Red Maple	2.5" cal.	B&B	Full Crown, Central Leader
NS	6	Nyssa sylvatica / Black Gum	2.5" cal.	B&B	Full Crown, Central Leader
QA	4	Quercus alba / White Oak	2.5" cal.	B&B	Full Crown, Central Leader
ZS	11	Zelkova serrata / Japanese Zelkova	2.5" cal.	B&B	Full Crown, Central Leader

478	SY UPLAND MEADOW ESTABLISHMENT
595	LF TEMPORARY ORANGE CONSTRUCTION FENCE (TOCF)
2,315	SY LOWLAND MEADOW ESTABLISHMENT
4,394	SY TURFGRASS SOD ESTABLISHMENT

LEGEND

- EXISTING TREE LINE
- PROPOSED TREE LINE
- EXISTING TREE TO REMAIN
- EXISTING TREE TO BE REMOVED
- EXISTING WETLAND
- B — WETLAND BUFFER
- TPF — TREE PROTECTION FENCE (TOCF)/ROOT PRUNING
- TURFGRASS ESTABLISHMENT
- LOWLAND MEADOW ESTABLISHMENT
- UPLAND MEADOW ESTABLISHMENT

T-01: 37" PIN OAK, POOR
T-02: 36" SCARLET OAK, GOOD
T-03: 26" BLACK GUM, FAIR
T-04: 29" PIGNUT HICKORY, GOOD
T-05: 31" BLACK OAK, FAIR
T-06: 27" SCARLET OAK, FAIR
T-07: 30" SCARLET OAK, FAIR
T-08: 24" MOCKERNUT HICKORY, GOOD
T-09: 5" TREE OF HEAVEN, GOOD
T-10: 20" PIN OAK, FAIR
T-11: 6" VIRGINIA PINE, FAIR

30' 0 30' 60'
SCALE: 1"=30'

DWG. LD-01

MAHAN RYKIEL
LANDSCAPE ARCHITECTURE
URBAN DESIGN & PLANNING

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

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DEPARTMENT OF TRANSPORTATION
ROCKVILLE, MARYLAND

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Chief, Transportation Planning and Design Section — Date
APPROVED
Chief, Division of Transportation Engineering — Date

DESIGNED BY MIF DRAWN BY KAA CHECKED BY MIF

MONTGOMERY COUNTY
DEPARTMENT OF TRANSPORTATION
DIVISION OF TRANSPORTATION ENGINEERING

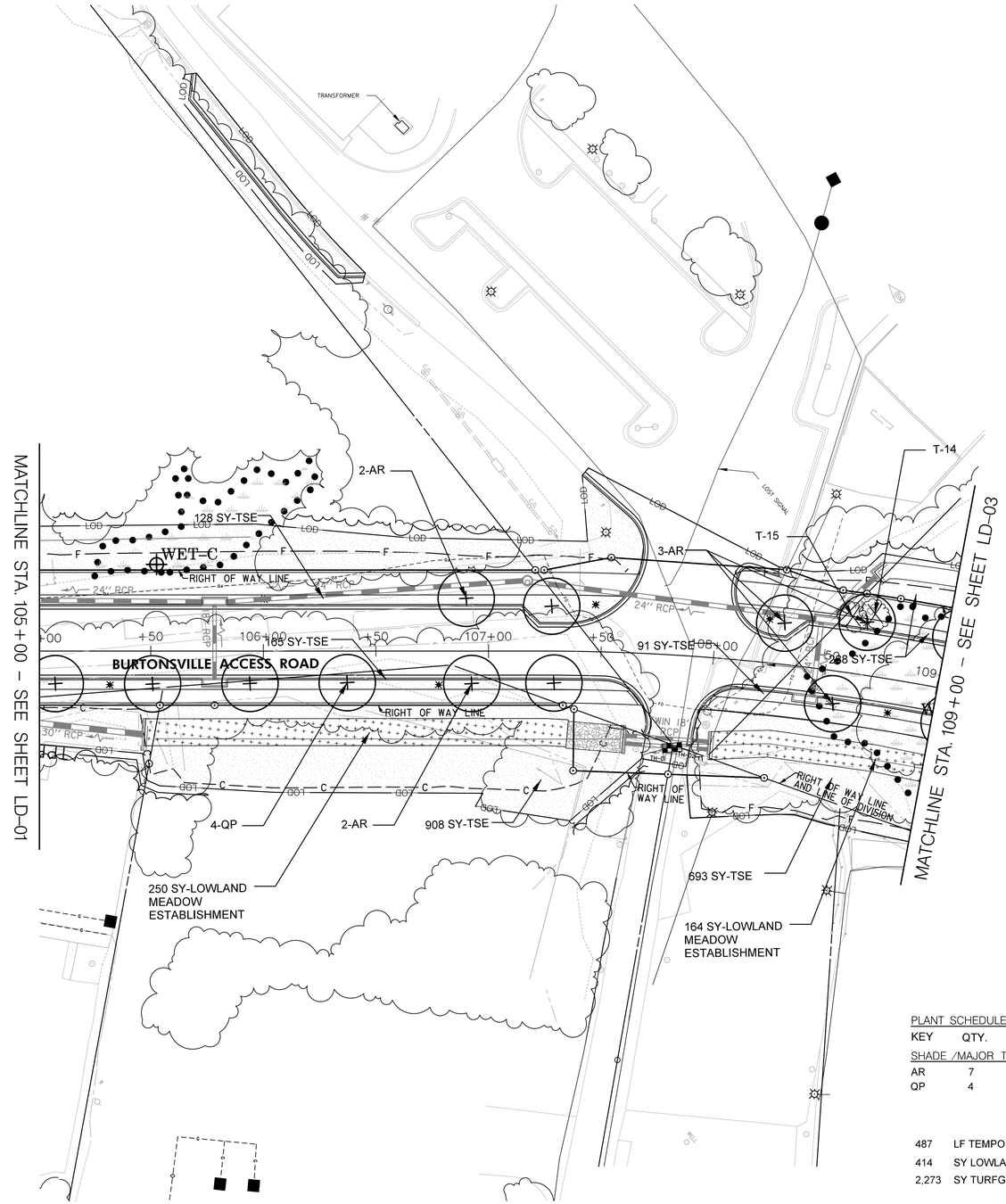
BURTONSVILLE ACCESS ROAD
SPENCERVILLE ROAD TO
BUTONSVILLE ELEMENTARY ACCESS ROAD

LANDSCAPE PLAN

SCALE 1"=30' DATE MAY 6, 2022

DRAWING NO. 01 OF 04 SHEET NO. 18 OF 21

PLOTTED: Friday, May 06, 2022 AT 02:31 PM
FILE: S:\22 Projects\22027 Burtonsville Access Road\MRA\02 35 percent\CAD\pLD-P001_BAR.dgn



T-14: 27" RED MAPLE, FAIR
T-15: 24" EASTERN RED CEDAR, FAIR

LEGEND

- EXISTING TREE LINE
- PROPOSED TREE LINE
- EXISTING TREE TO REMAIN
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- EXISTING WETLAND
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- TURFGRASS ESTABLISHMENT
- LOWLAND MEADOW ESTABLISHMENT
- UPLAND MEADOW ESTABLISHMENT

PLANT SCHEDULE – THIS SHEET

KEY	QTY.	BOTANICAL / COMMON NAME	SIZE	ROOT	COMMENTS
SHADE /MAJOR TREES					
AR	7	Acer rubrum 'October Glory' / October Glory Red Maple	2.5" cal.	B&B	Full Crown, Central Leader
QP	4	Quercus phellos 'Hightower' / Hightower Willow Oak	2.5" cal.	B&B	Full Crown, Central Leader

487	LF	TEMPORARY ORANGE CONSTRUCTION FENCE (TOCF)
414	SY	LOWLAND MEADOW ESTABLISHMENT
2,273	SY	TURFGRASS SOD ESTABLISHMENT

DWG. LD–02

30' 0 30' 60'
SCALE: 1"=30'

OWNER/ADDRESS:
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GAITHERSBURG, MARYLAND

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MONTGOMERY COUNTY
DEPARTMENT OF TRANSPORTATION
DIVISION OF TRANSPORTATION ENGINEERING

BURTONSVILLE ACCESS ROAD
SPENCERVILLE ROAD TO
BUTONSVILLE ELEMENTARY ACCESS ROAD

LANDSCAPE PLAN

SCALE 1"=30' DATE MAY 6, 2022

DRAWING NO. 02 OF 04 SHEET NO. 19 OF 21

MAHAN RYKIEL
LANDSCAPE ARCHITECTURE
URBAN DESIGN & PLANNING

PLOTTED: Friday, May 06, 2022 AT 02:18 PM
FILE: S:\22 Projects\22027 Burtonsville Access Road\MRA\02 35 percent\CAD\pLD-P002_BAR.dgn

PLANT SCHEDULE – THIS SHEET

KEY	QTY.	BOTANICAL / COMMON NAME	SIZE	ROOT	COMMENTS
SHADE /MAJOR TREES					
AR	3	Acer rubrum 'October Glory' / October Glory Red Maple	2.5" cal.	B&B	Full Crown, Central Leader
ZS	6	Zelkova serrata / Japanese Zelkova	2.5" cal.	B&B	Full Crown, Central Leader
742		SY TURFGRASS SOD ESTABLISHMENT			

T-12: 32" SUGAR MAPLE, FAIR
T-13: 26" RED MAPLE, FAIR
T-16: 3" THORNLESS HONEY LOCUST, GOOD
T-17: 9" JAPANESE ZELKOVA, FAIR
T-18: 3" CRAPE MYRTLE, GOOD
T-19: 2" CRAPE MYRTLE, GOOD
T-20: 3" CRAPE MYRTLE, GOOD
T-21: 3" CRAPE MYRTLE, GOOD
T-22: 3" CRAPE MYRTLE, GOOD
T-23: 7" JAPANESE ZELKOVA, POOR
T-24: 7" JAPANESE ZELKOVA, GOOD
T-25: 5" JAPANESE ZELKOVA, FAIR
T-26: 7" JAPANESE ZELKOVA, GOOD
T-27: 7" JAPANESE ZELKOVA, GOOD
T-28: 6" JAPANESE ZELKOVA, GOOD
T-29: 14" BRADFORD PEAR, FAIR

LEGEND

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- PROPOSED TREE LINE
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- EXISTING TREE TO BE REMOVED
- EXISTING WETLAND
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MAHAN RYKIEL
LANDSCAPE ARCHITECTURE
URBAN DESIGN & PLANNING

SCALE: 1"=30'

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GAITHERSBURG, MARYLAND

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ROCKVILLE, MARYLAND

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MONTGOMERY COUNTY
DEPARTMENT OF TRANSPORTATION
DIVISION OF TRANSPORTATION ENGINEERING

BURTONSVILLE ACCESS ROAD
SPENCERVILLE ROAD TO
BUTONSVILLE ELEMENTARY ACCESS ROAD

LANDSCAPE PLAN

SCALE 1"=30' DATE MAY 6, 2022

DRAWING NO. 03 OF 04 SHEET NO. 20 OF 21

DWG. LD-03

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TREE INVENTORY TABLE

Tree Number	Common Name	Scientific Name	DBH	Condition	Comment
T1†	Pin oak	*Quercus palustris*	37	Fair	Broken branches and dieback in crown, large branch removed, and unbalanced crown.
T2†	Scarlet oak	*Quercus coccinea*	36	Good	Minor broken branches in the lower canopy.
T3*	Black gum	*Nyssa sylvatica*	26	Fair	Broken branches in the crown, thin crown.
T4*	Pignut hickory	*Carya glabra*	29	Good	Twin trunks splits above DBH and some broken branches in crown.
T5†	Black oak	*Quercus velutina*	31	Fair	Twin trunks splits above DBH, branch dieback and broken branches in crown, and thin crown.
T6*	Scarlet oak	*Quercus coccinea*	27	Fair	Leaning, unbalanced crown, and interfering branches from adjacent trees.
T7†	Scarlet oak	*Quercus coccinea*	30	Fair	Twin trunks 27" stem, irregular branching structure, and included bark.
T8*	Mockernut hickory	*Carya tomentosa*	24	Good	Slightly unbalanced crown.
T9	Tree of heaven	*Ailanthus altissima*	5	Fair	Trunk wound, cracked and rotting bark on trunk, branch dieback in crown, and thin crown.
T10	Pin oak	*Quercus palustris*	20	Fair	Minor deadwood in the lower canopy, dead branches, and dieback in the crown.
T11	Virginia pine	*Pinus virginiana*	6	Fair	Twin trunks, one additional 5 inch, unbalanced crown, needle dieback, and located on slope along road.
T12†	Silver maple	*Acer saccharinum*	32	Fair	Triple trunk above dbh, water sprouts, trunk damage, and large branch removed in lower canopy.
T13*	Red maple	*Acer rubrum*	26	Fair	Bend in leader, exposed roots, and vines into crown.
T14*	Red maple	*Acer rubrum*	27	Fair	Twin trunks splits above DBH, dead branches in crown, included bark, and exposed roots.
T15*	Eastern red cedar	*Juniperus virginiana*	24	Fair	Needle and branch dieback in crown, vines entering crown from adjacent shrubs.
T16	Thornless honey locust	*Gleditsia triacanthos*	3	Good	Four stems, three additional, 2 inches each.
T17	Japanese zelkova	*Zelkova serrata*	9	Fair	Peeling and rotting bark, old guy wire never removed and now growing into trunk.
T18	Crape myrtle	*Lagerstroemia sp.*	3	Good	Twin trunks, one additional 2 inch stem, minor pruning wounds healed.
T19	Crape myrtle	*Lagerstroemia sp.*	2	Good	Triple trunks, two additional 2 inch stems, minor pruning wounds healed.
T20	Crape myrtle	*Lagerstroemia sp.*	3	Good	Triple trunks two additional 3 inch stems, minor pruning wounds healed.
T21	Crape myrtle	*Lagerstroemia sp.*	3	Good	Triple trunks two additional 3 inch stems, minor pruning wounds healed.
T22	Crape myrtle	*Lagerstroemia sp.*	3	Good	Triple trunks, one 3 inch and one 2 inch, minor pruning wounds healed.
T23	Japanese zelkova	*Zelkova serrata*	7	Poor	10 inch trunk wound rotting, trunk damage, old guy wire never removed trunk growing around it.
T24	Japanese zelkova	*Zelkova serrata*	7	Good	Minor included bark.
T25	Japanese zelkova	*Zelkova serrata*	5	Fair	Bark damage and rotting trunk wounds observed, dead branches in crown.
T26	Japanese zelkova	*Zelkova serrata*	7	Good	Minor included bark, old guy wire never removed trunk growing around it.
T27	Japanese zelkova	*Zelkova serrata*	7	Good	Minor included bark, old guy wire never removed trunk growing around it.
T28	Japanese zelkova	*Zelkova serrata*	6	Good	Minor included bark, old guy wire never removed trunk growing around it.
T29	Bradford pear	*Pyrus calleryana*	14	Fair	Slight lean, trunk wounds partially healed and partially rotting, topped, and utility pruning.

NOTE: Significant trees denoted with *. Specimen trees denoted with †.

MASTER PLANT SCHEDULE

KEY	QTY.	BOTANICAL / COMMON NAME	SIZE	ROOT	COMMENTS
SHADE / MAJOR TREES					
AR	17	Acer rubrum 'October Glory' / October Glory Red Maple	2.5" cal.	B&B	Full Crown, Central Leader
NS	6	Nyssa sylvatica / Black Gum	2.5" cal.	B&B	Full Crown, Central Leader
QA	4	Quercus alba / White Oak	2.5" cal.	B&B	Full Crown, Central Leader
QP	4	Quercus phellos 'Hightower' / Hightower Willow Oak	2.5" cal.	B&B	Full Crown, Central Leader
ZS	17	Zelkova serrata / Japanese Zelkova	2.5" cal.	B&B	Full Crown, Central Leader
478	SY UPLAND MEADOW ESTABLISHMENT				
359	TEMPORARY ORANGE CONSTRUCTION FENCE (TOCF) & ROOT PRUNING				
2,729	SY LOWLAND MEADOW ESTABLISHMENT				
7,409	SY TURFGRASS SOD ESTABLISHMENT (TSE)				

DWG. LD-04

MAHAN RYKIEL
LANDSCAPE ARCHITECTURE
URBAN DESIGN & PLANNING

30' 0 30' 60'
SCALE: 1"=30'

OWNER/ADDRESS:
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DEPARTMENT OF TRANSPORTATION
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GAITHERSBURG, MARYLAND

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BURTONSVILLE ACCESS ROAD
SPENCERVILLE ROAD TO
BUTONSVILLE ELEMENTARY ACCESS ROAD

LANDSCAPE PLAN

SCALE 1"=30' DATE MAY 6, 2022

DRAWING NO. 04 OF 04 SHEET NO. 21 OF 21

PLOTTED: Friday, May 06, 2022 AT 02:18 PM
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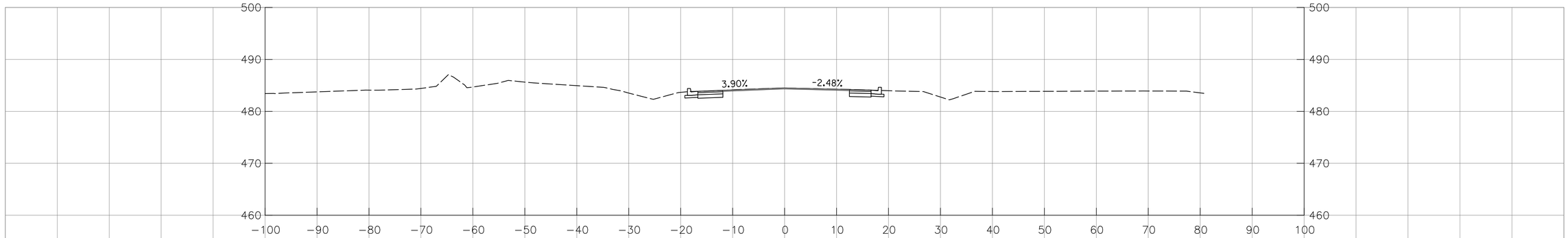

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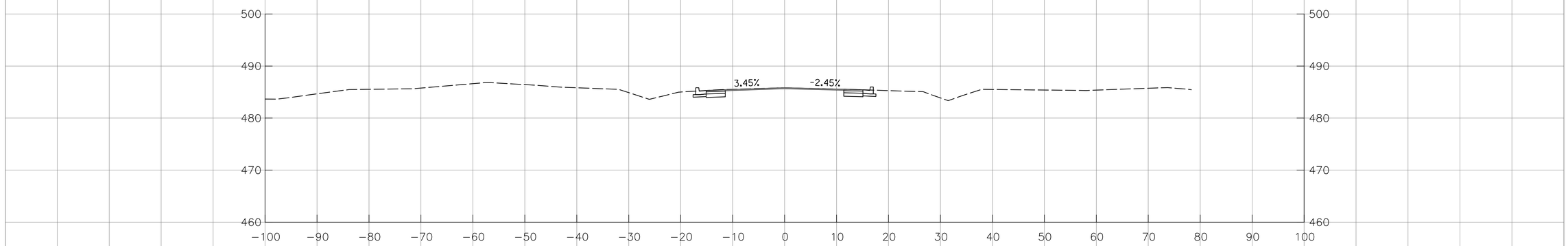

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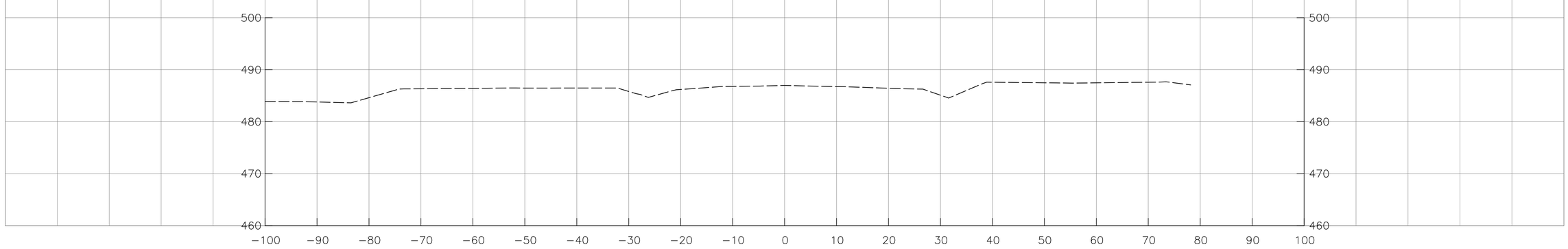

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MONTGOMERY COUNTY
DEPARTMENT OF TRANSPORTATION
DIVISION OF TRANSPORTATION ENGINEERING

BURTONSVILLE ELEMENTARY ACCESS ROAD

SPENCERVILLE ROAD TO
BURTONSVILLE ELEMENTARY ACCESS ROAD
CROSS SECTIONS

SCALE 1"=10' DATE MAY 2022

SHEET NO. 1 OF 2

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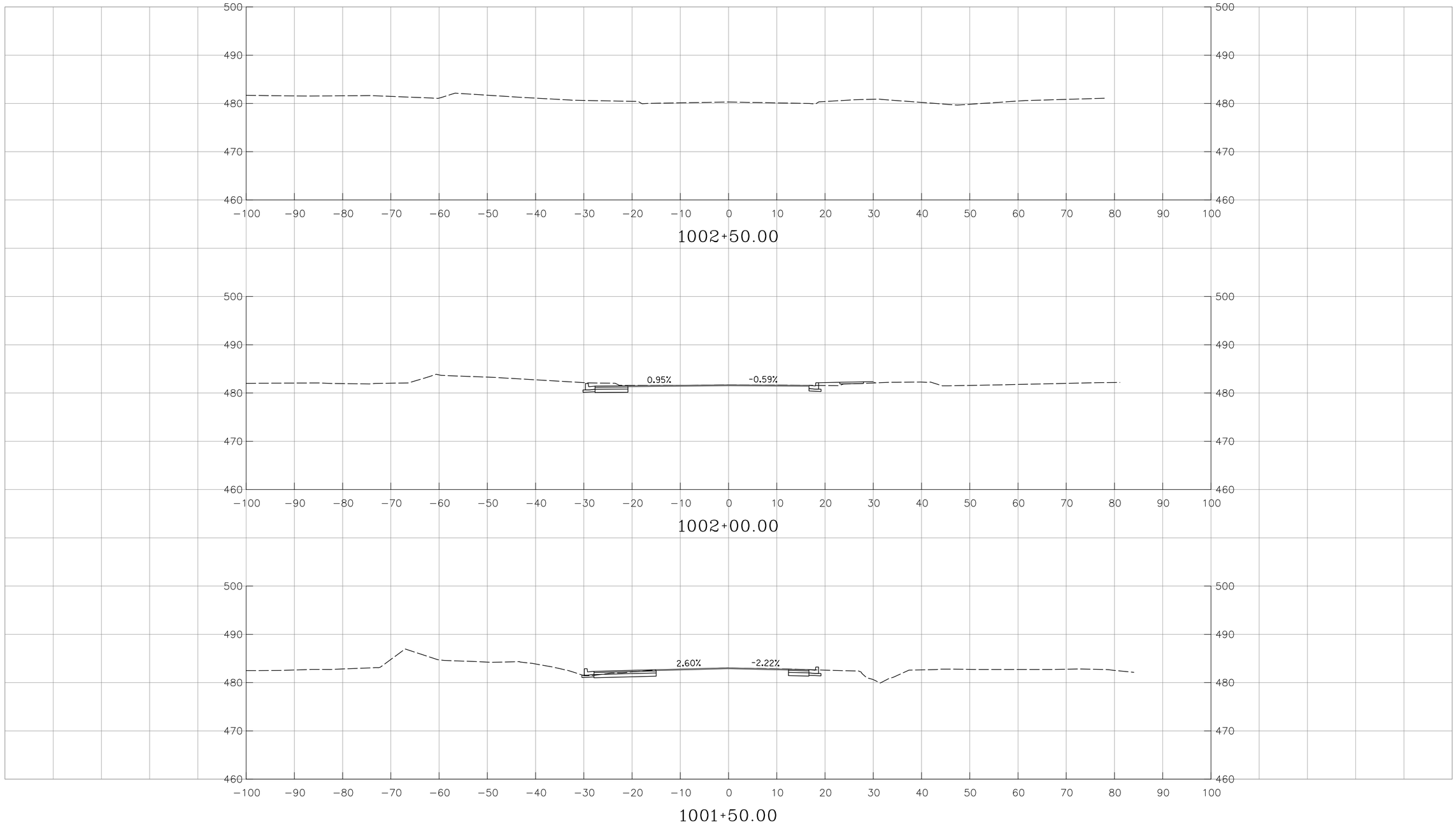

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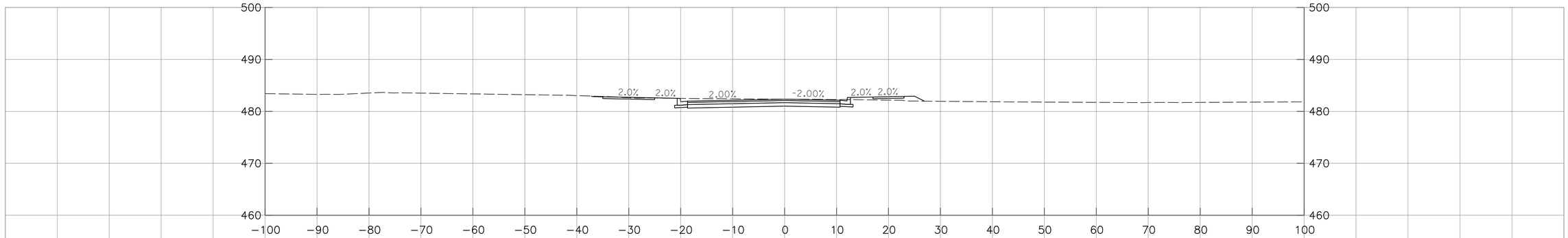

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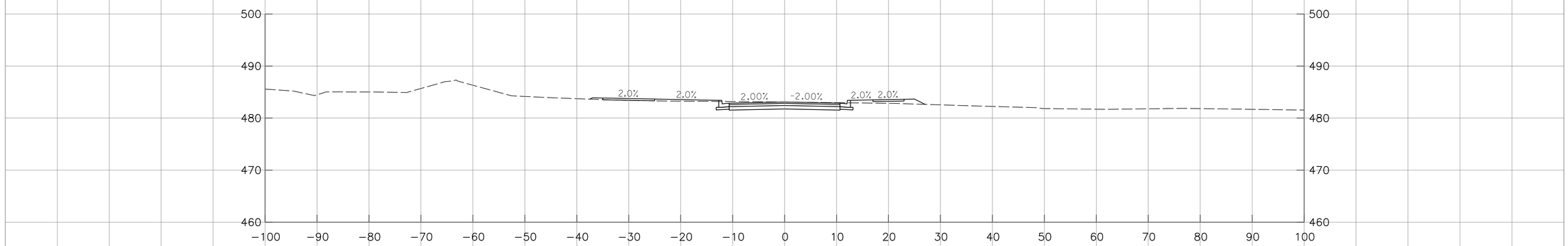

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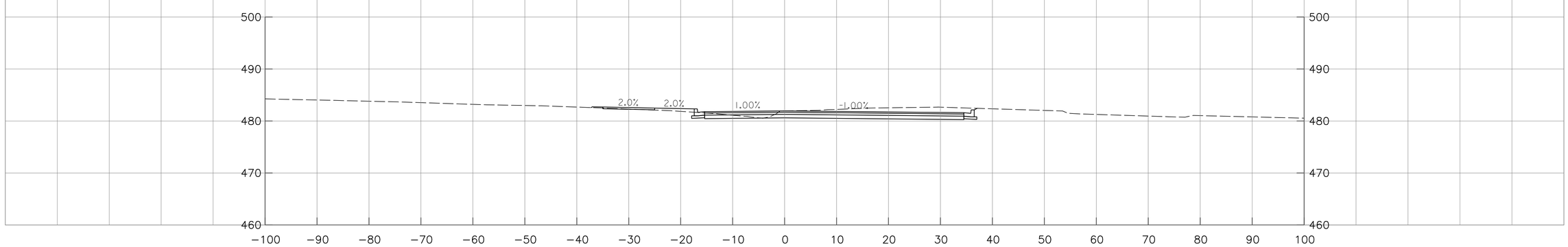

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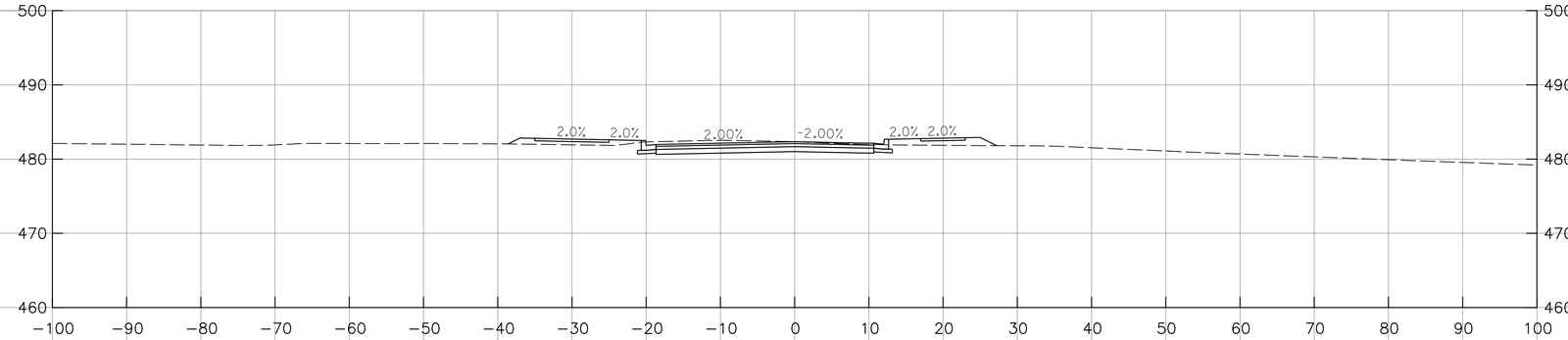

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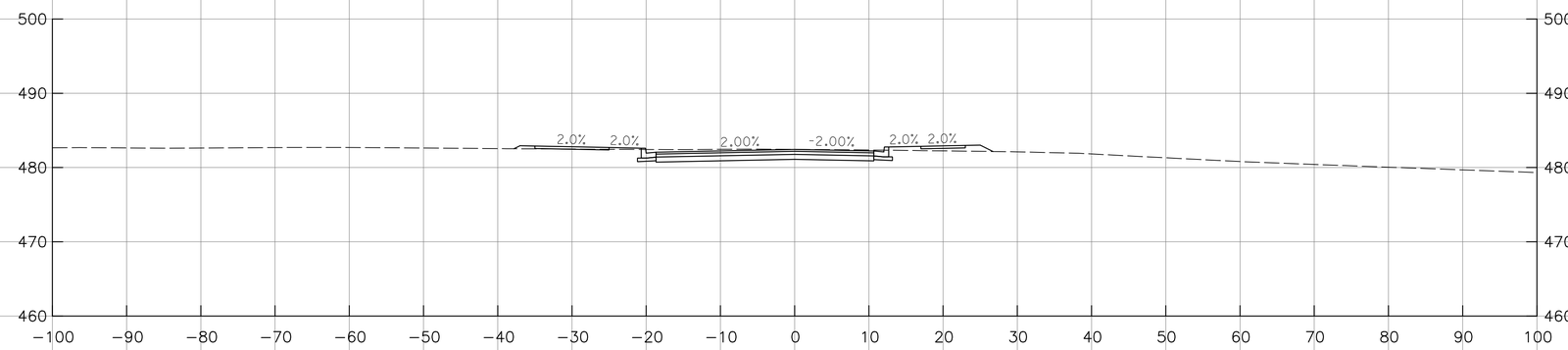

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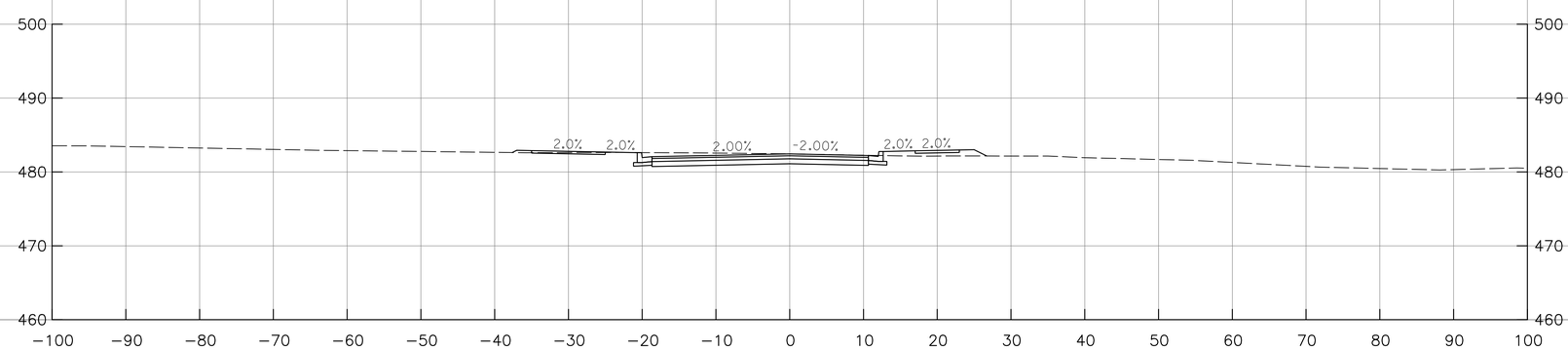

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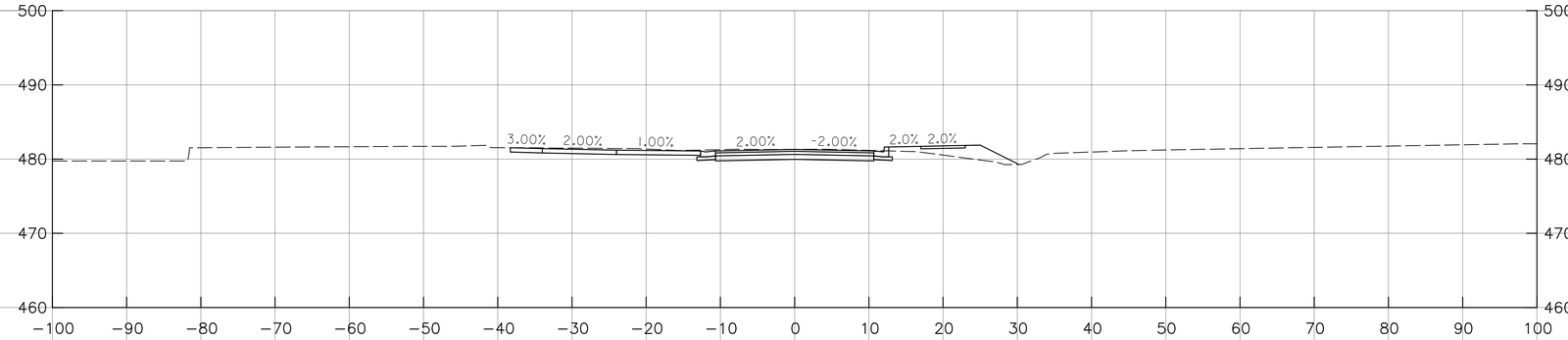

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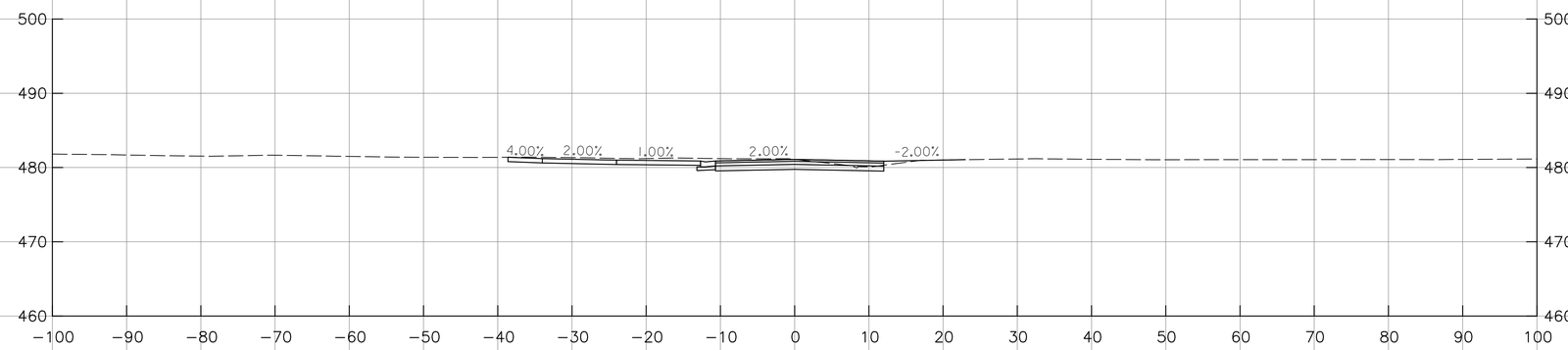

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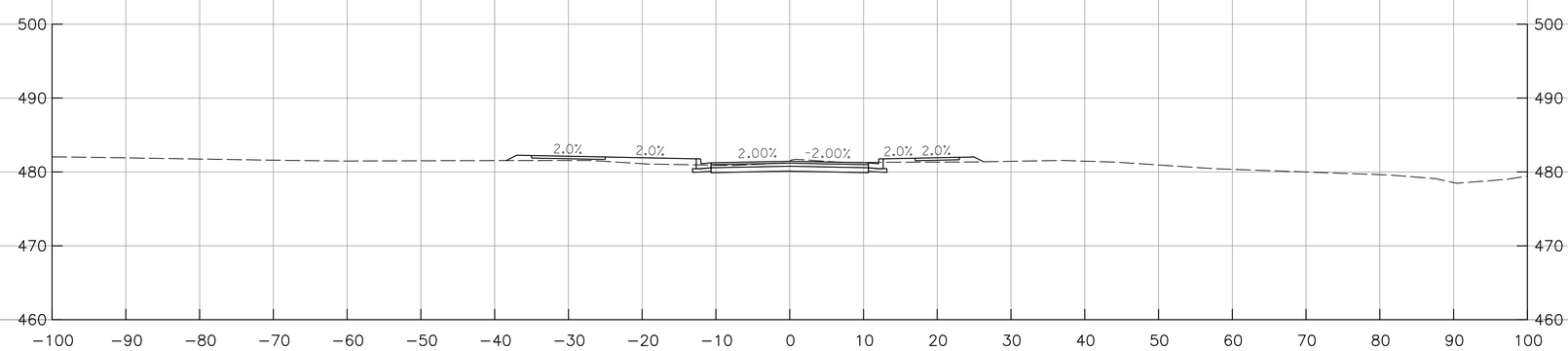

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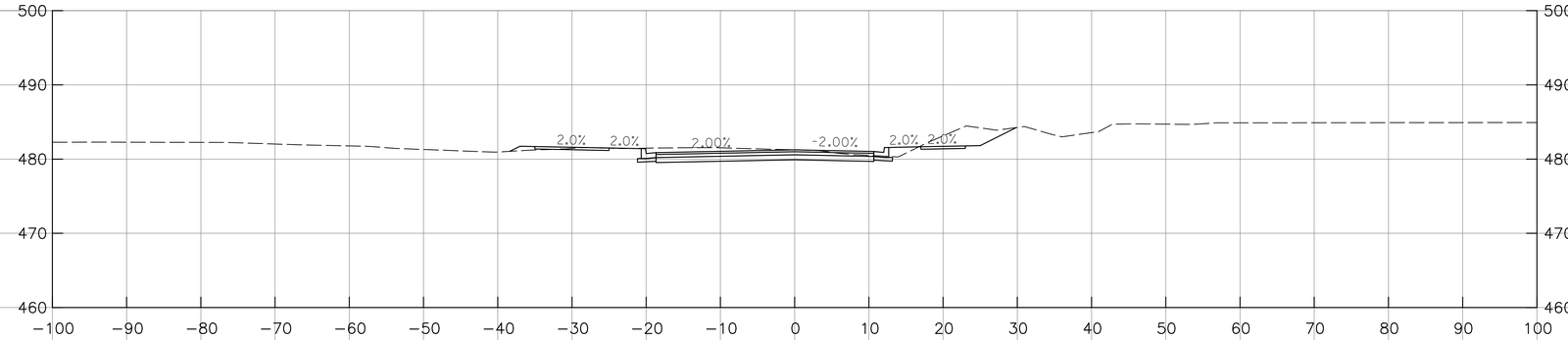

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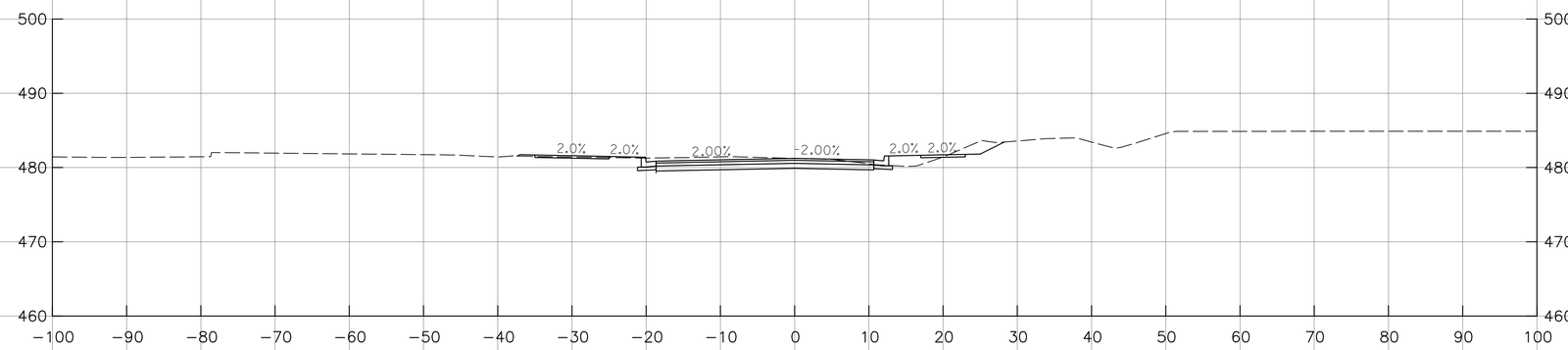

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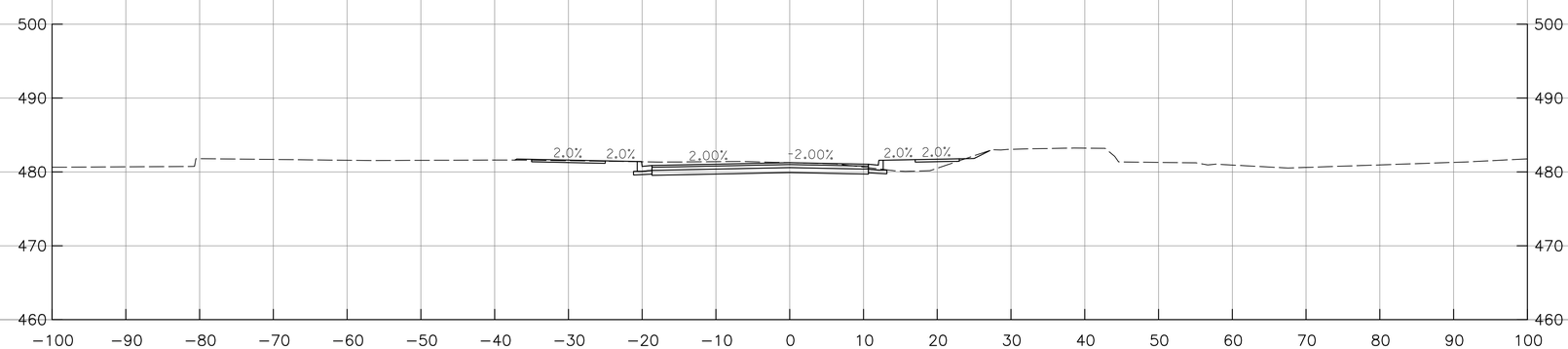

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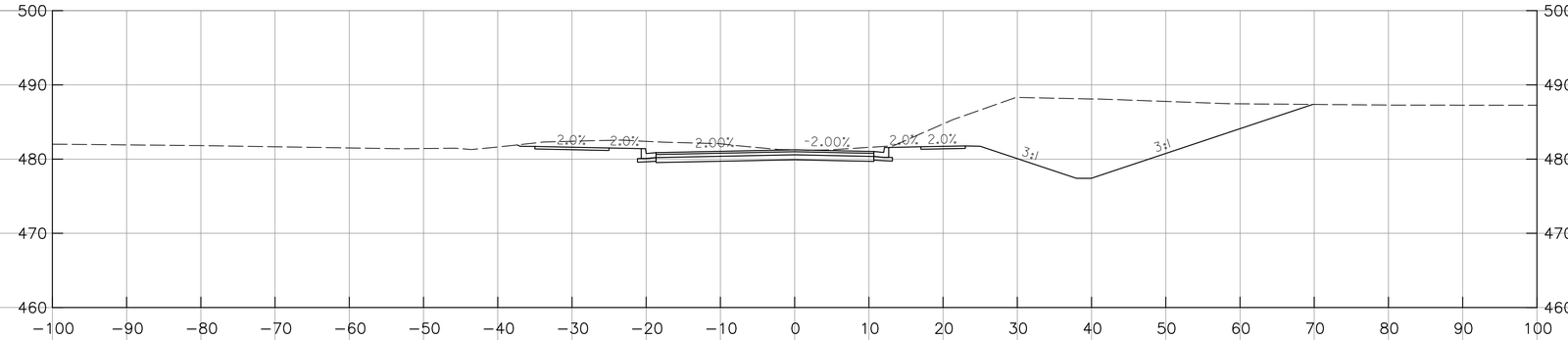

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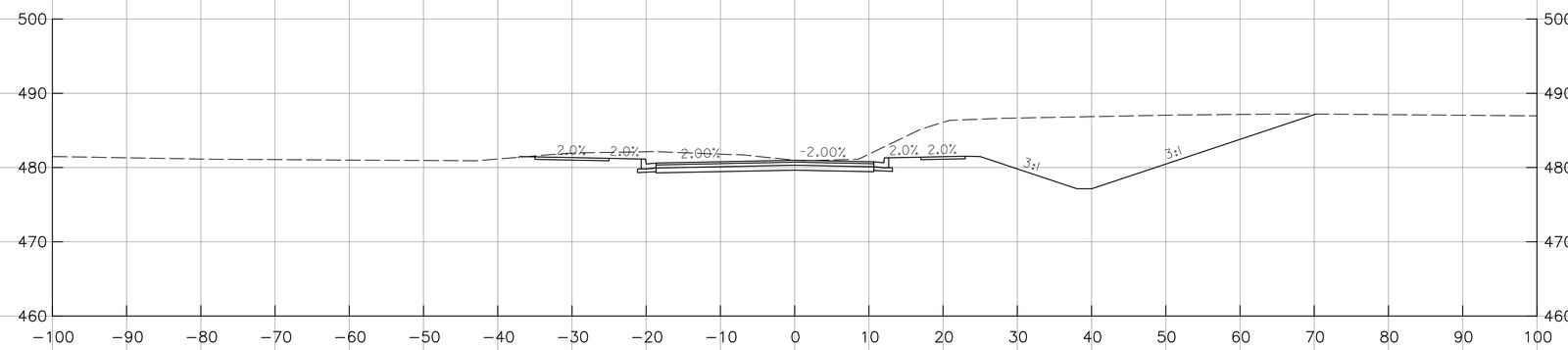

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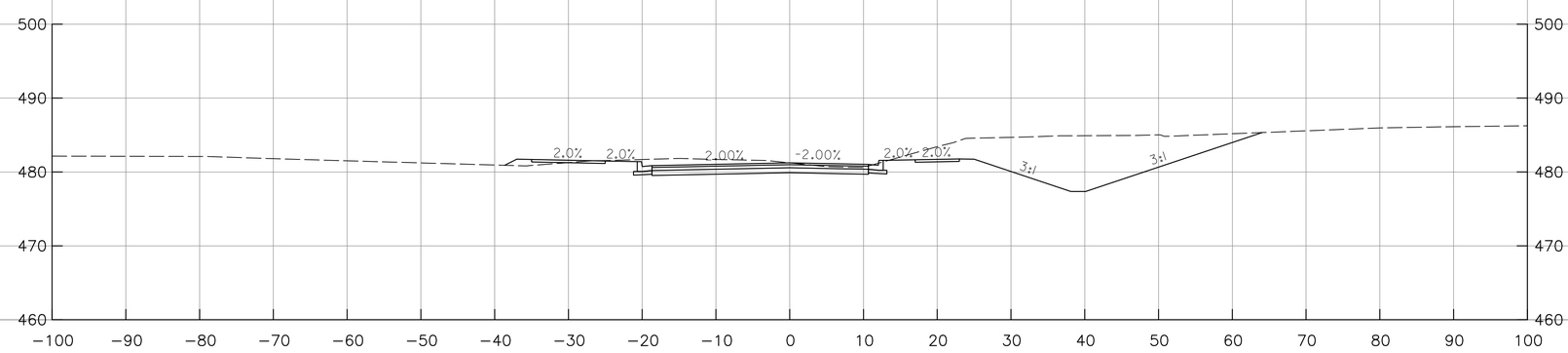

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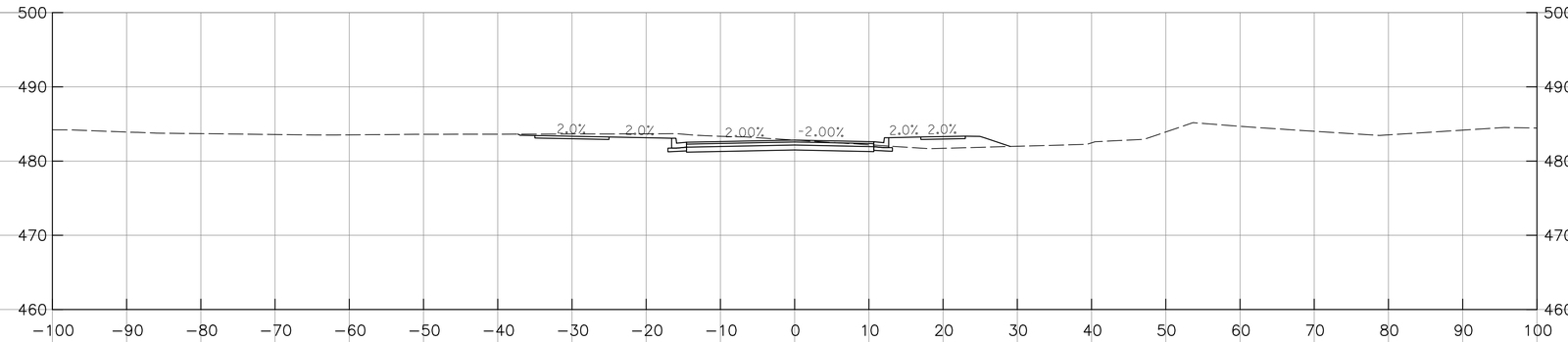

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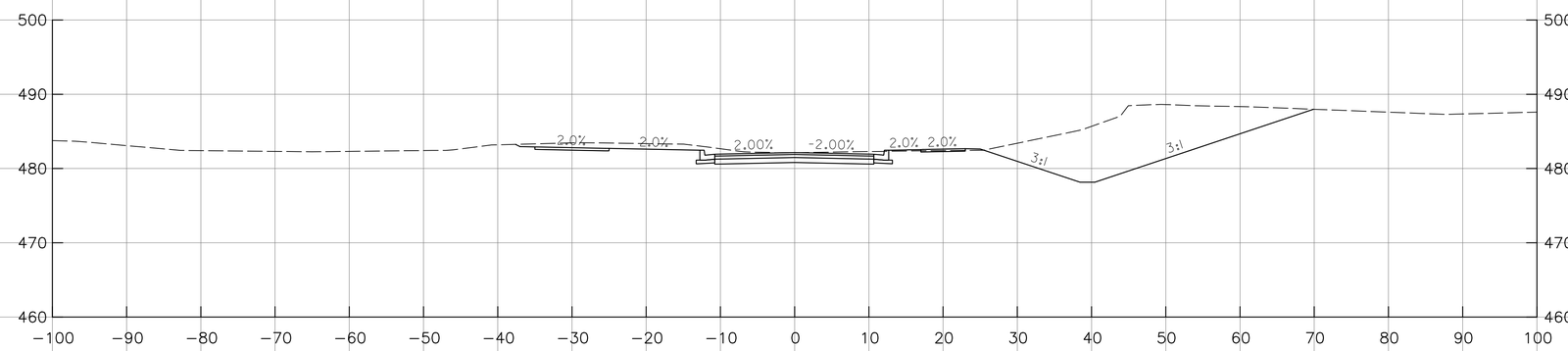

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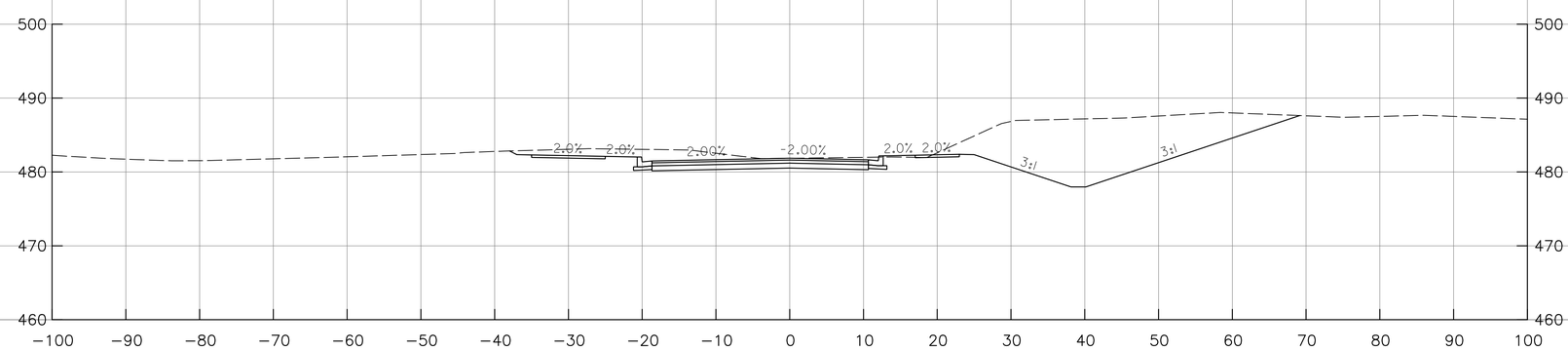

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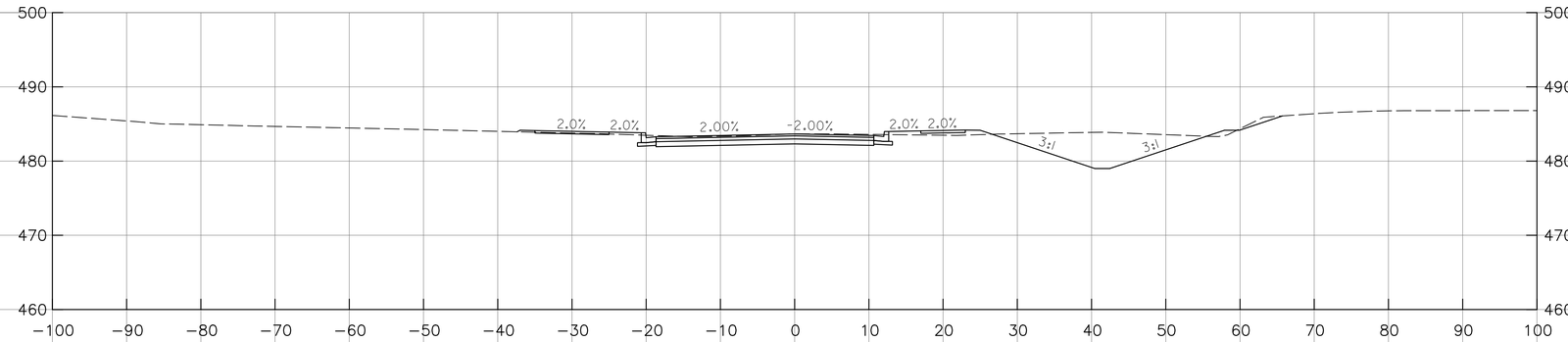

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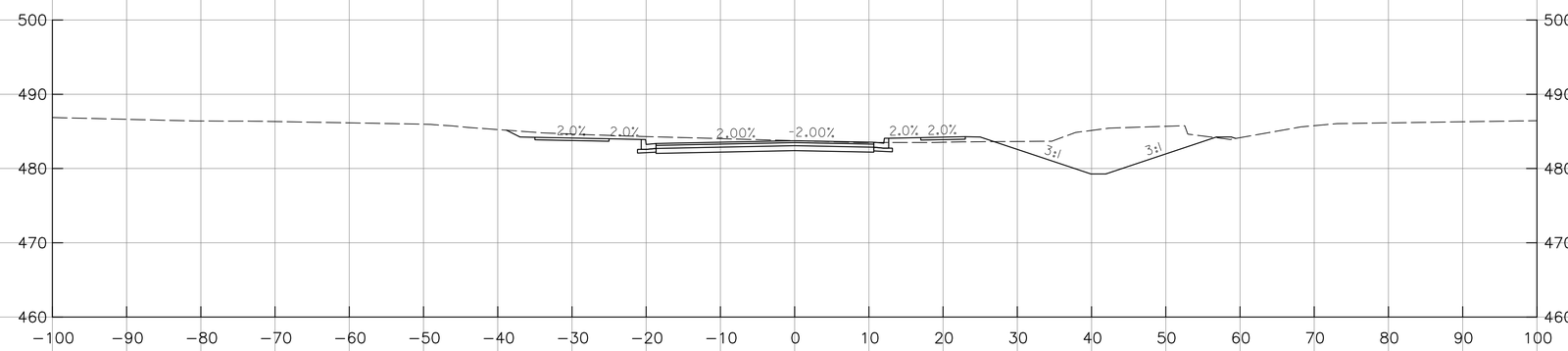

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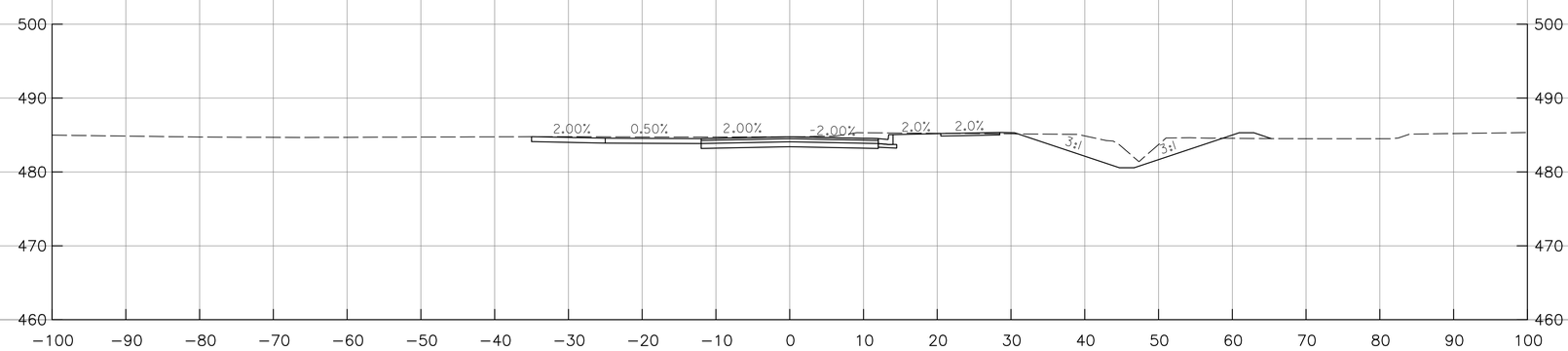

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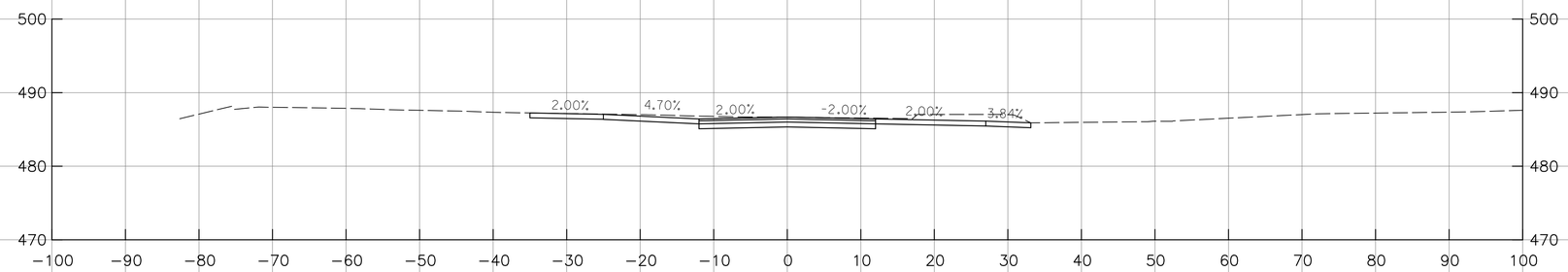

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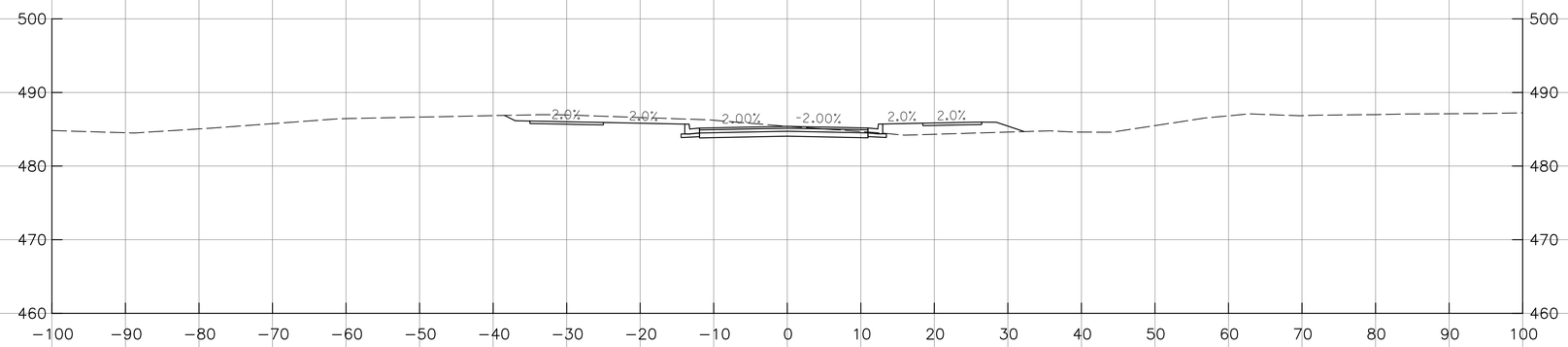

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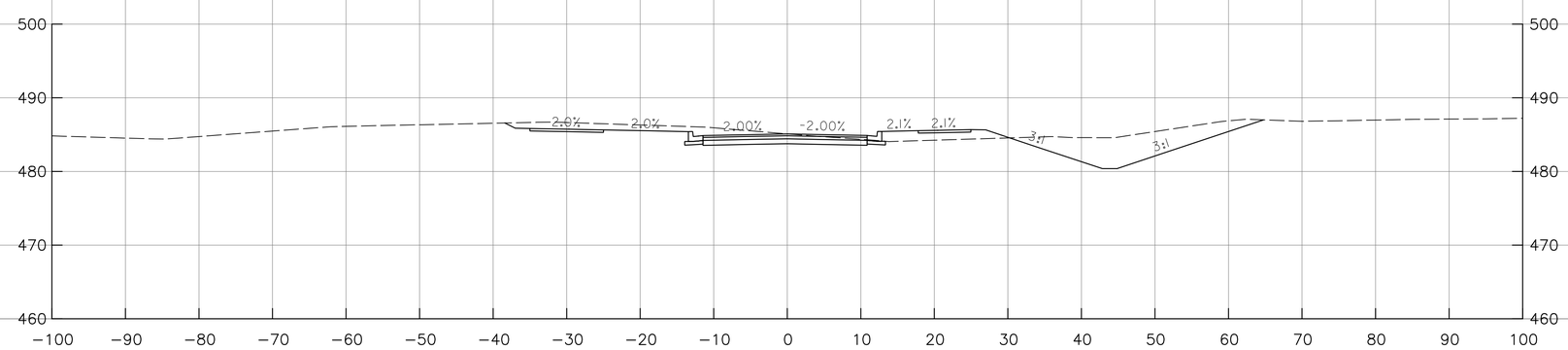

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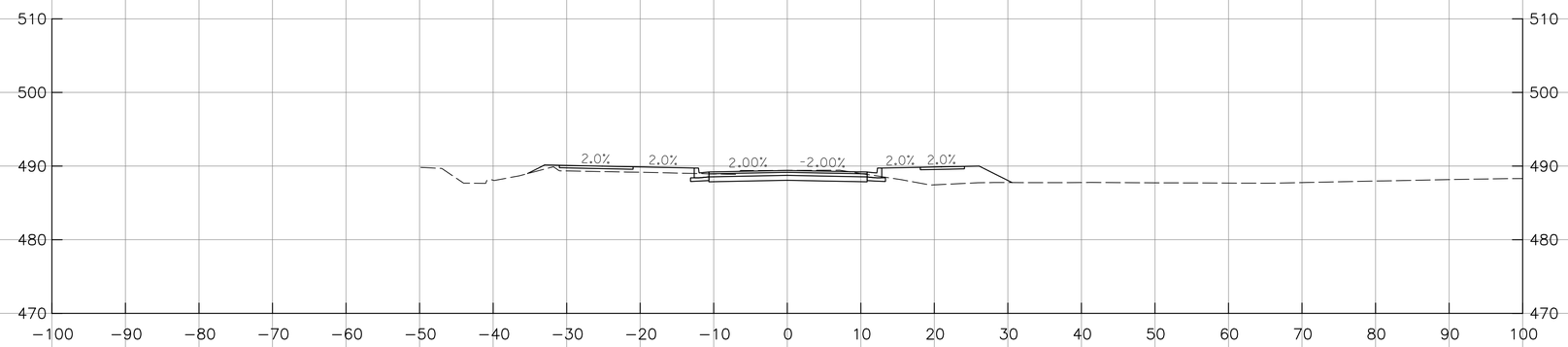

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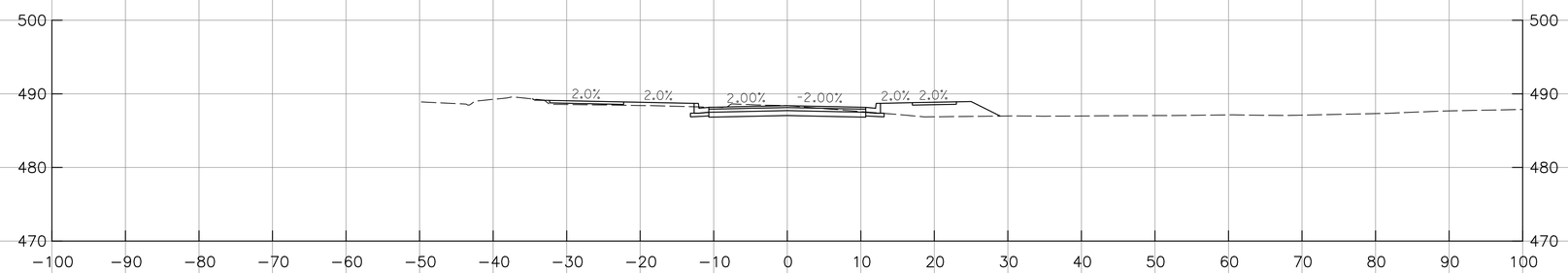

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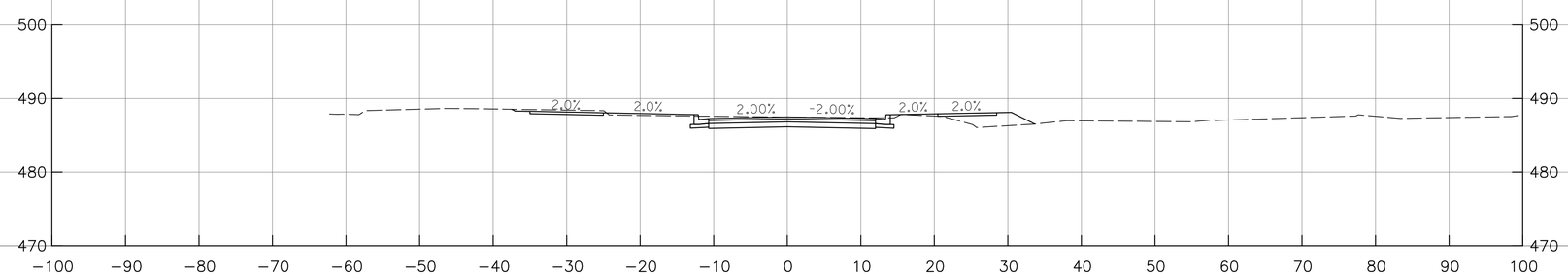

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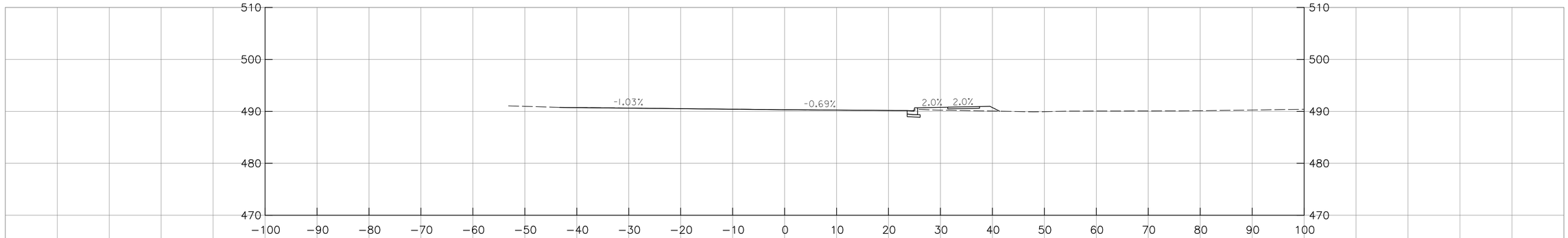

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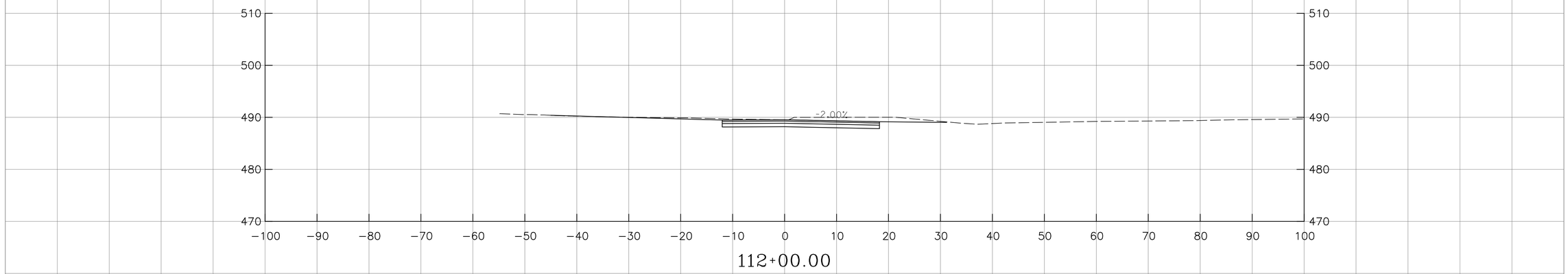

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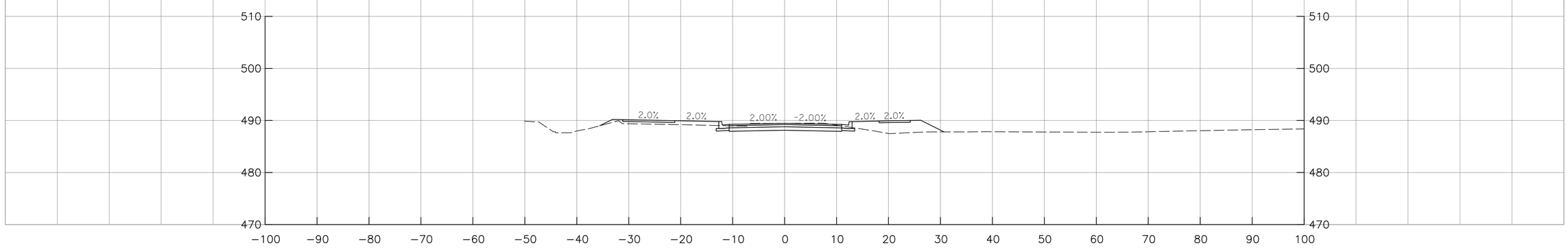

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DESIGN SECTION
240-777-7221

NO.	REVISION	DATE	BY

MONTGOMERY COUNTY
DEPARTMENT OF TRANSPORTATION
ROCKVILLE, MARYLAND

RECOMMENDED FOR APPROVAL

Chief, Transportation Planning and Design Section — Date

APPROVED

Chief, Division of Transportation Engineering — Date

DESIGNED BY RLW DRAWN BY KBJ CHECKED BY TMB

MONTGOMERY COUNTY
DEPARTMENT OF TRANSPORTATION
DIVISION OF TRANSPORTATION ENGINEERING

BURTONSVILLE ACCESS ROAD

SPENCERVILLE ROAD TO
BURTONSVILLE ELEMENTARY ACCESS ROAD
CROSS SECTIONS

SCALE 1"=10' DATE MAY 2022

SHEET NO. 10 OF 12

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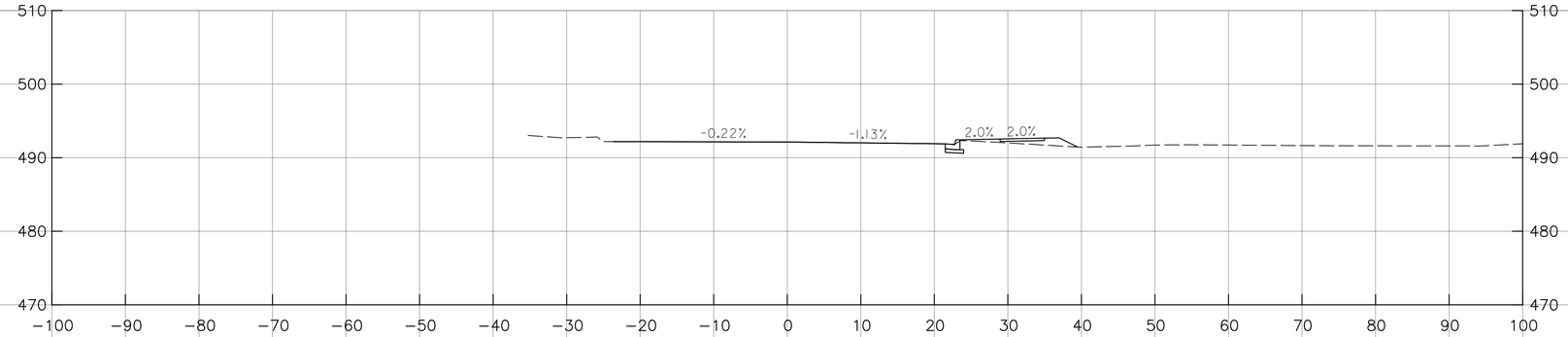

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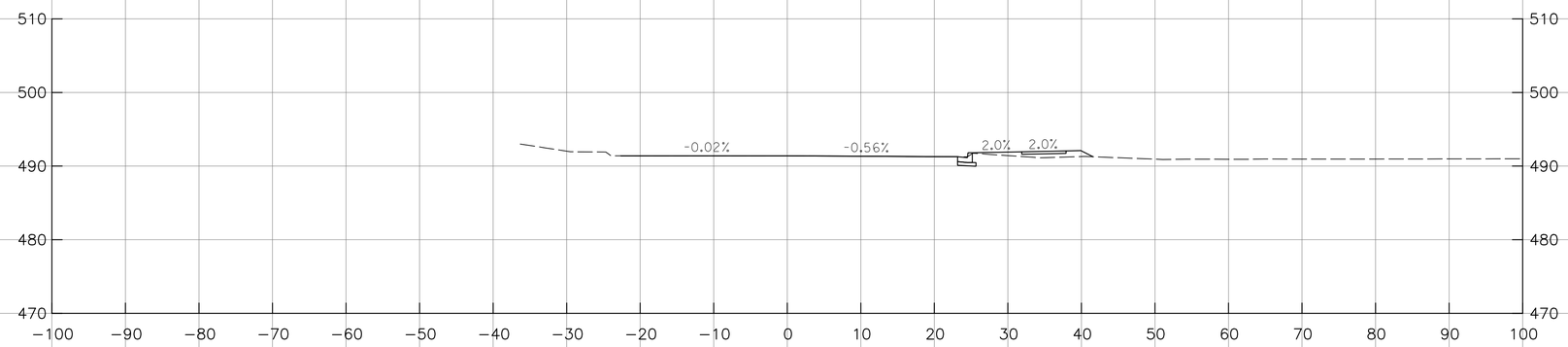

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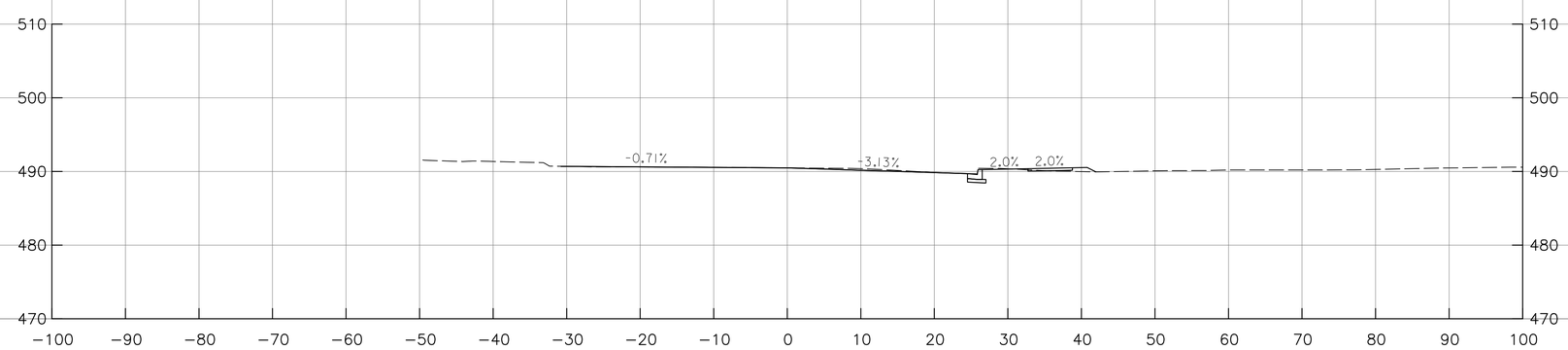

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SCALE 1"=10' DATE MAY 2022

SHEET NO. 11 OF 12

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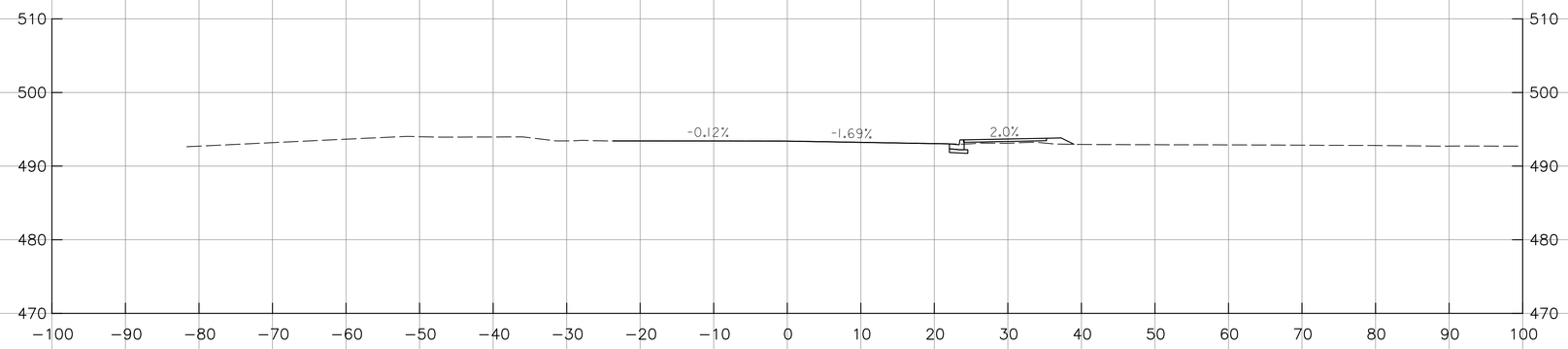

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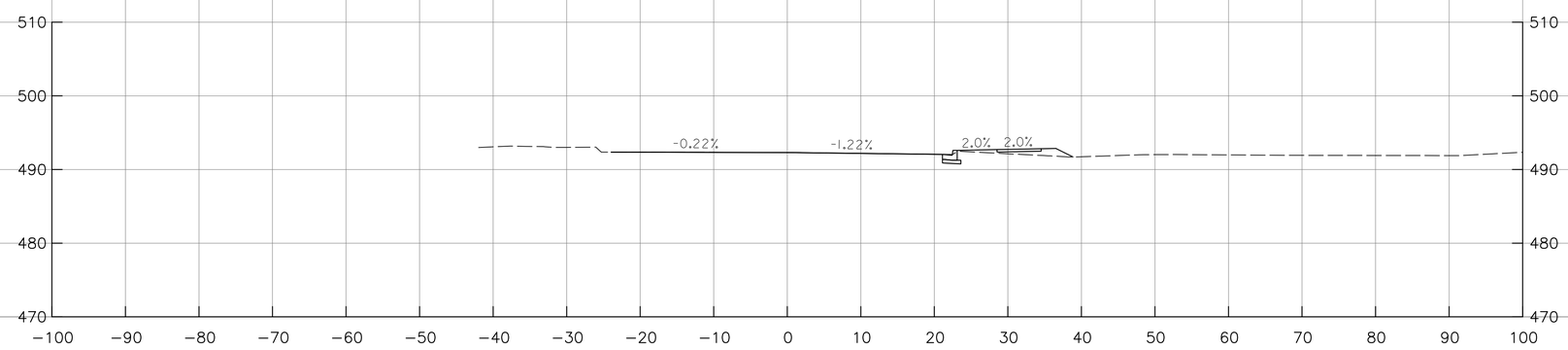

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SHEET NO. 12 OF 12

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