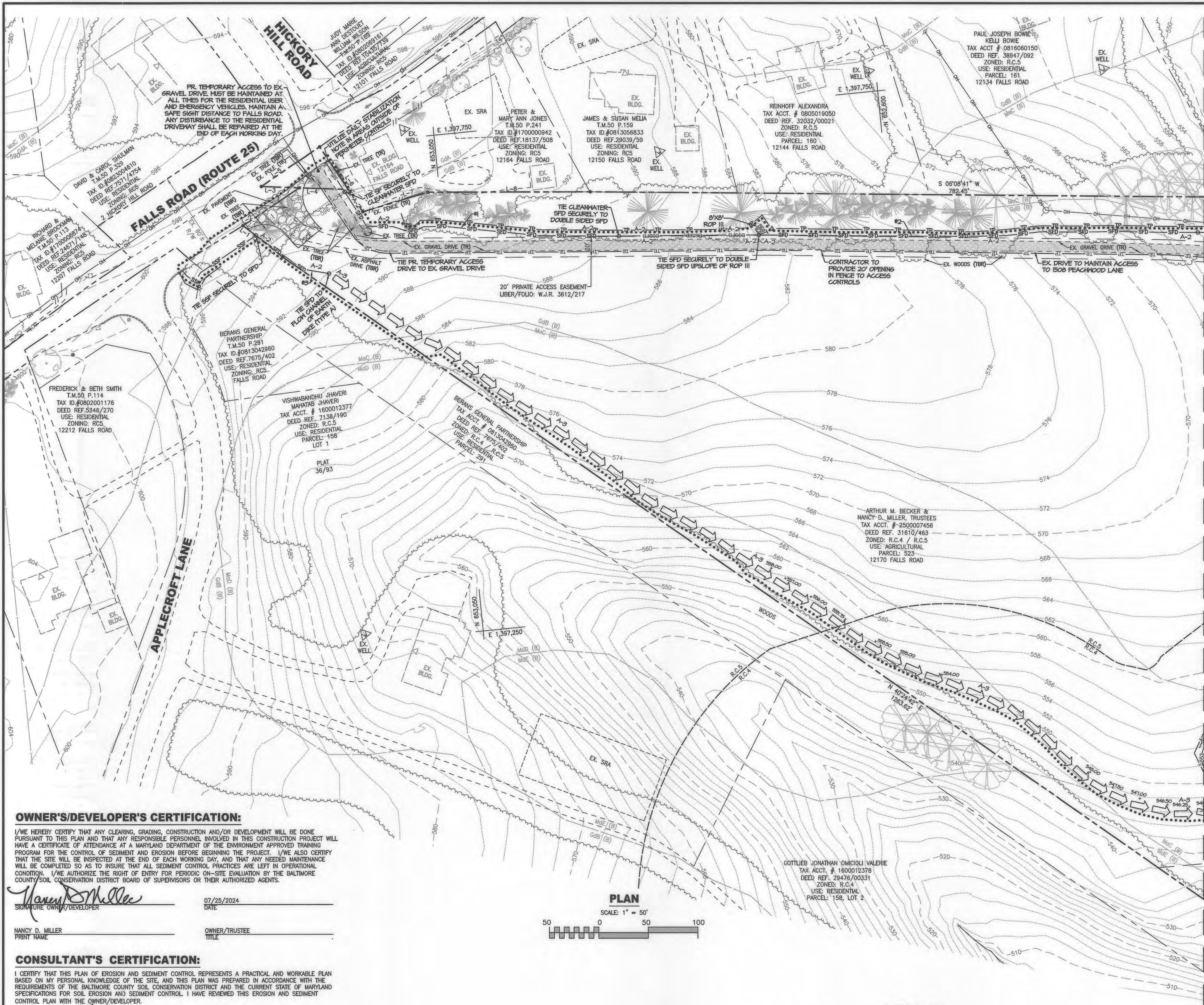




OWNER'S/DEVELOPER'S CERTIFICATION:

I/WE HEREBY CERTIFY THAT ANY CLEARING, GRADING, CONSTRUCTION AND/OR DEVELOPMENT WILL BE DONE PURSUANT TO THIS PLAN AND THAT ANY RESPONSIBLE PERSONNEL INVOLVED IN THIS CONSTRUCTION PROJECT WILL HAVE A CERTIFICATE OF ATTENDANCE AT A MARYLAND DEPARTMENT OF THE ENVIRONMENT APPROVED TRAINING PROGRAM FOR THE CONTROL OF SEDIMENT AND EROSION BEFORE BEGINNING THE PROJECT. I/WE ALSO CERTIFY THAT THE SITE WILL BE INSPECTED AT THE END OF EACH WORKING DAY, AND THAT ANY NEEDED MAINTENANCE WILL BE COMPLETED SO AS TO INSURE THAT ALL SEDIMENT CONTROL PRACTICES ARE LEFT IN OPERATIONAL CONDITION. I/WE AUTHORIZE THE RIGHT OF ENTRY FOR PERIODIC ON-SITE EVALUATION BY THE BALTIMORE COUNTY SOIL CONSERVATION DISTRICT BOARD OF SUPERVISORS OR THEIR AUTHORIZED AGENTS.

Nancy D. Miller
SIGNATURE OWNER/DEVELOPER

07/25/2024
DATE

NANCY D. MILLER
PRINT NAME

OWNER/TRUSTEE
TITLE

CONSULTANT'S CERTIFICATION:

I CERTIFY THAT THIS PLAN OF EROSION AND SEDIMENT CONTROL REPRESENTS A PRACTICAL AND WORKABLE PLAN BASED ON MY PERSONAL KNOWLEDGE OF THE SITE, AND THIS PLAN WAS PREPARED IN ACCORDANCE WITH THE REQUIREMENTS OF THE BALTIMORE COUNTY SOIL CONSERVATION DISTRICT AND THE CURRENT STATE OF MARYLAND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL. I HAVE REVIEWED THIS EROSION AND SEDIMENT CONTROL PLAN WITH THE OWNER/DEVELOPER.

J. Sharon
SIGNATURE

07/25/2024
DATE

JOSHUA T. SHARON
PRINT NAME

34479
MD LICENSE NUMBER

GENERAL NOTE

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LINE TABLE

LINE	BEARING AND DISTANCE
L-1	N 43°47'52" E 51.11'
L-2	S 27°59'55" E 68.47'
L-3	S 07°42'58" W 38.62'
L-4	S 7°41'58" W 49.02'
L-5	N 28°11'57" W 70.97'
L-6	S 61°46'59" W 78.40'
L-7	S 10°56'27" E 68.44'
L-8	S 05°33'04" W 163.84'

NOTE

THIS PLAN SET IS TO BE USED FOR SEDIMENT CONTROL ONLY.



PROTECT YOURSELF, GIVE THREE WORKING DAYS NOTICE
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ENGINEER

JOSHUA T. SHARON, P.E.
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TOWSON, MD 21286
PHONE: (410) 821-1690
EMAIL: JSHARON@MRA.ORG

OWNER

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PHONE: (410) 560-0061
EMAIL: CNMILLER@VERIZON.NET

DEVELOPER

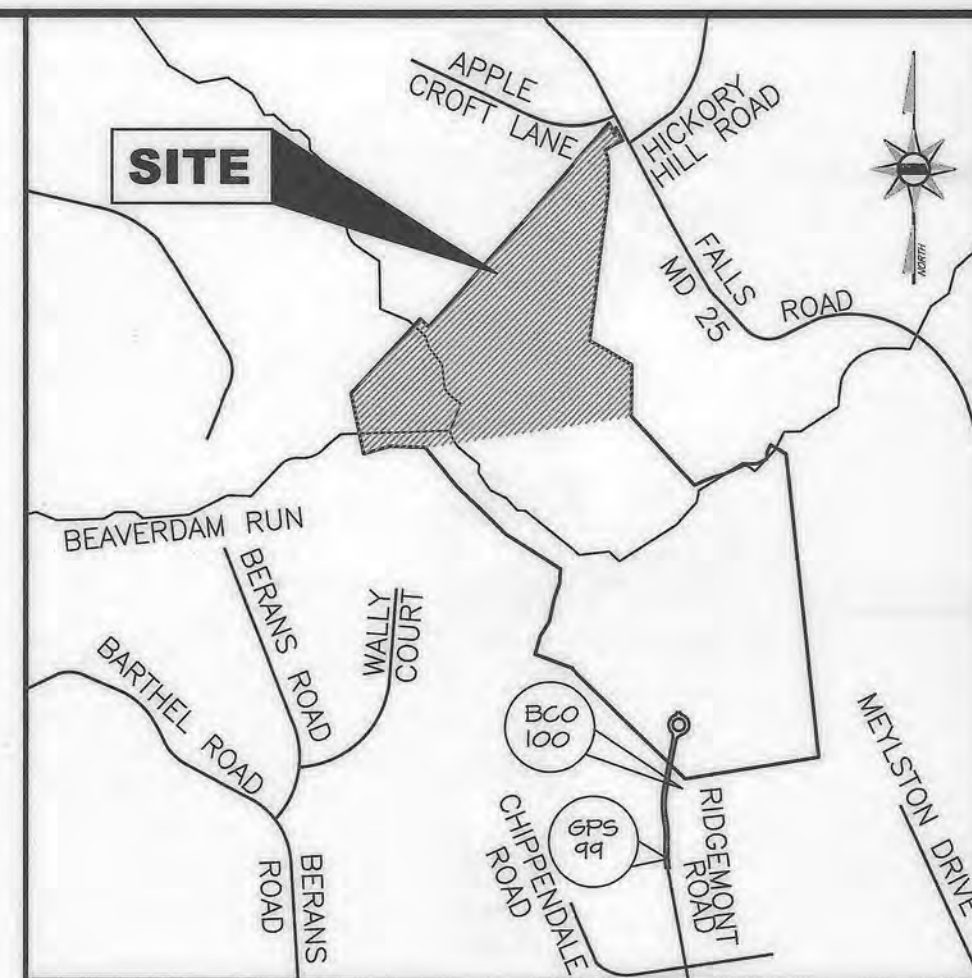
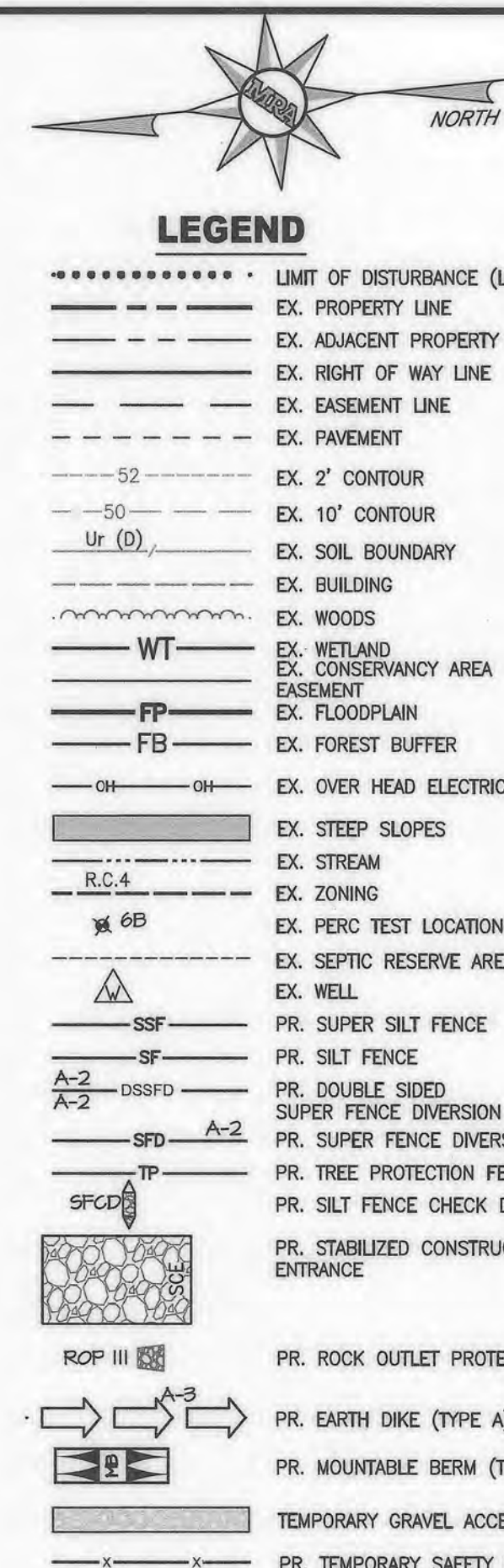
GAYLORD BROOKS REALTY CO.
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DATUM

DESIGN & DRAWING BASED ON
MARYLAND COORDINATE SYSTEM (MCS):
HORIZONTAL: NAD 83 (1997)
VERTICAL: NAVD 88

PROFESSIONAL CERTIFICATION

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VICINITY MAP

SCALE: 1" = 100'

BENCHMARK

GPS #99 N 649447.71
ELEV. 588.25 E 1398017.03
DESCRIPTION: PROP. CORNER REBAR W/ MRA CAP
BCO #100 N 646837.48
ELEV. 589.33 E 1398057.19
DESCRIPTION: REBAR W/ MRA CAP

SOILS CHART			
'K'	MAP UNIT SYMBOL	SOIL TYPE	HYDROLOGIC SOIL GROUP
0.24	GdB	GLENNELG LOAM, 3 TO 8 PERCENT SLOPES	B
0.28	McC	MANOR LOAM, 8 TO 15 PERCENT SLOPES	B
0.28	McE	MANOR-BRINKLOW COMPLEX, 25 TO 45 PERCENT SLOPES	B
0.24	GdA	GLENNELG LOAM, 0 TO 3 PERCENT SLOPES	B
0.28	McD	MANOR LOAM, 15 TO 25 PERCENT SLOPES	B

SHEET INDEX

NO.	DESCRIPTION
ESC-01	EXISTING CONDITIONS PLAN - 1
ESC-02	EXISTING CONDITIONS PLAN - 2
ESC-03	PROPOSED CONDITIONS PLAN - 1
ESC-04	PROPOSED CONDITIONS PLAN - 2
ESC-05	FINAL GRADING INSET
ESC-06	DETAILS - 1
ESC-07	DETAILS - 2
ESC-08	DETAILS - 3
ESC-09	DETAILS - 4
ESC-10	NOTES AND SEQUENCE OF CONSTRUCTION
ESC-11	NOTES AND SEEDING CHARTS

Baltimore County Soil Conservation District
APPROVED FOR SEDIMENT CONTROL **6-5-24**
Date

Jeffrey P. West 118-1745-24
DISTRICT OFFICIAL Plan No.

Technical Review for the District by:

Stuart Darby

This plan approval will expire three (3) years from the approval date

GRADING PERMIT # REN24-000089

SWM PERMIT # REN24-000090

LOD = 620,000 SF (14.23 AC.)

PAI#: VIII-791

ESC 01 OF 11

C-01

MORRIS & RITCHIE ASSOCIATES, INC.
ENGINEERS, PLANNERS, SURVEYORS AND LANDSCAPE ARCHITECTS
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FAX (410) 821-1748
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DATE		REVISIONS		JOB NO.:	
07/23/2024		ELECTION DISTRICT 8		14745X08	
		BALTIMORE COUNTY, MARYLAND		SCALE: 1" = 50'	
				DATE: 07/25/2024	
				DRAWN BY: AA	
				DESIGN BY: AA	
				REVIEW BY: JTS	
				SHEET: 01 OF 38	

SEE MATCH LINE SHEET 01



LEGEND

.....	LIMIT OF DISTURBANCE (LOD)
---	EX. PROPERTY LINE
---	EX. ADJACENT PROPERTY LINE
---	EX. RIGHT OF WAY LINE
---	EX. EASEMENT LINE
---	EX. PAVEMENT
52	EX. 2' CONTOUR
10'	EX. 10' CONTOUR
Ur (D)	EX. SOIL BOUNDARY
---	EX. BUILDING
---	EX. WOODS
WT	EX. WETLAND
---	EX. CONSERVANCY AREA EASEMENT
FP	EX. FLOODPLAIN
FB	EX. FOREST BUFFER
OH	EX. OVER HEAD ELECTRIC
---	EX. STEEP SLOPES
---	EX. STREAM
R.C.4	EX. ZONING
6B	EX. PERC TEST LOCATION
---	EX. SEPTIC RESERVE AREA (SRA)
---	EX. WELL
SSSF	PR. SUPER SILT FENCE
SF	PR. SILT FENCE
A-2	PR. DOUBLE SIDED SUPER FENCE DIVERSION
SFD	PR. SUPER FENCE DIVERSION
TP	PR. TREE PROTECTION FENCE
---	PR. SILT FENCE CHECK DAM
---	PR. STABILIZED CONSTRUCTION ENTRANCE
ROP III	PR. ROCK OUTLET PROTECTION
BB	PR. EARTH DIKE (TYPE A)
---	PR. BAFFLE BOARD
---	PR. GABION INFLOW PROTECTION
---	PR. MOUNTABLE BERM (TYPE A)
---	PR. REMOVABLE PUMPING STATION
---	PR. FILTER BAG
51	PR. 1' CONTOUR
52	PR. 2' CONTOUR
50	PR. 10' CONTOUR
---	TEMPORARY GRAVEL ACCESS DRIVE
---	TEMPORARY ASPHALT BERM
---	TEMPORARY SAFETY FENCE (FOR TRAPS)

PLAN

SCALE: 1" = 50'



SEDIMENT TRAP 1 TYPE - ST 1		
DRAINAGE AREAS		
INITIAL	5.96	AC.
INTERIM	6.37	AC.
PROPOSED	6.37	AC.
STORAGE REQUIRED		
WET	11,466	C.F.
DRY	11,466	C.F.
TOTAL	22,932	C.F.
STORAGE PROVIDED		
WET	12,707	C.F.
DRY	11,861	C.F.
TOTAL	24,568	C.F.
ELEVATIONS		
EMBANKMENT	545.00	
WEIR CREST	544.00	
DRY STORAGE	544.00	
WET STORAGE	542.25	
CLEANOUT	541.00	
BOTTOM	540.00	
EX. GROUND	540.00	
CL. EMBANKMENT	545.00	
STORAGE DEPTH		
WET	540.00-542.25	
DRY	542.25-544.00	
MAX. EMBANK. HEIGHT	1.00 FT.	
BOTTOM DIM.	50'x98'	
SIDE SLOPE	2:1	
WEIR LENGTH	28 FT.	
TOP OF BAFFLE ELEVATION	543.25	
ELEV. AREA		
540	4,898	
542	6,117	
544	7,438	
545	8,136	
VOLUME		
540	0	
542	11,013	
544	24,568	
545	32,355	

SEDIMENT TRAP 2 TYPE - ST 1		
DRAINAGE AREAS		
INITIAL	5.76	AC.
INTERIM	5.32	AC.
PROPOSED	5.32	AC.
STORAGE REQUIRED		
WET	10,368	C.F.
DRY	10,368	C.F.
TOTAL	20,736	C.F.
STORAGE PROVIDED		
WET	10,623	C.F.
DRY	13,133	C.F.
TOTAL	23,756	C.F.
ELEVATIONS		
EMBANKMENT	519.00	
WEIR CREST	518.00	
DRY STORAGE	518.00	
WET STORAGE	516.00	
CLEANOUT	515.00	
BOTTOM	514.00	
EX. GROUND	514.00	
CL. EMBANKMENT	515.50	
STORAGE DEPTH		
WET	514.00-516.00	
DRY	516.00-518.00	
MAX. EMBANK. HEIGHT	3.50 FT.	
BOTTOM DIM.	48'x98'	
SIDE SLOPE	2:1	
WEIR LENGTH	24 FT.	
TOP OF BAFFLE ELEVATION	517.00	
ELEV. AREA		
514	4,700	
516	5,923	
518	7,210	
519	7,900	
VOLUME		
514	0	
516	10,623	
518	23,756	
519	31,311	

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Know what's below.
Call before you dig.

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ENGINEER

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PHONE: (410) 821-1690
EMAIL: JSHARON@MRACTA.COM

DATUM

DESIGN & DRAWING BASED ON
MARYLAND COORDINATE SYSTEM (MCS):
HORIZONTAL: NAD 83 (1981)
VERTICAL: NAVD 88

OWNER

ARTHUR BECKER & NANCY MILLER
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EMAIL: CMILLER@VERIZON.NET

DEVELOPER

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GRADING PERMIT # REN24-000089
SWM PERMIT # REN24-000090
LOD = 620,000 SF (14.23 AC.)
PAI#: VIII-791

ESC 02 OF 11

C-02

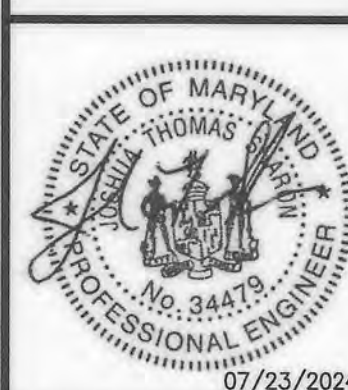
MORRIS & RITCHIE ASSOCIATES, INC.

ENGINEERS, PLANNERS, SURVEYORS AND LANDSCAPE ARCHITECTS
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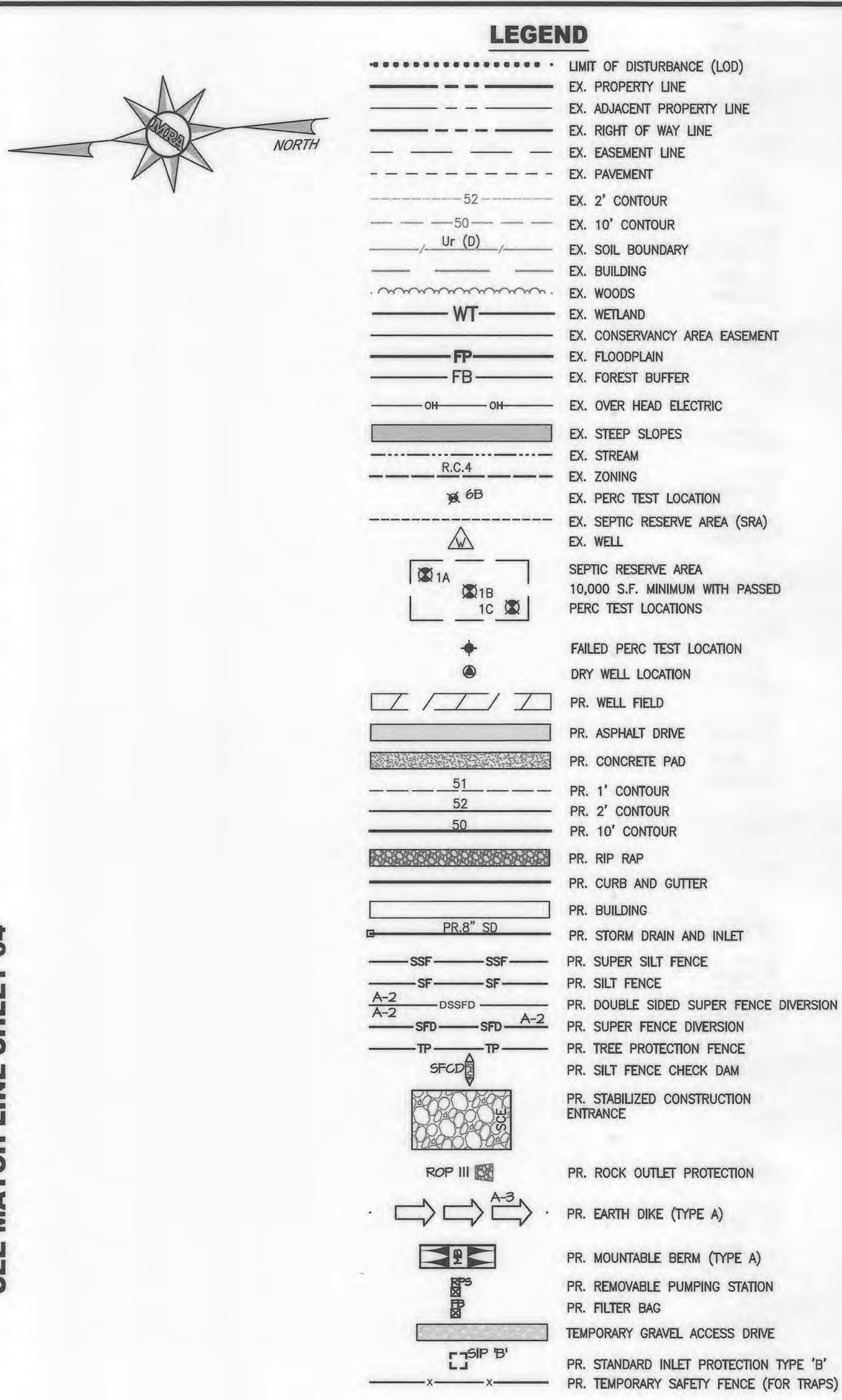
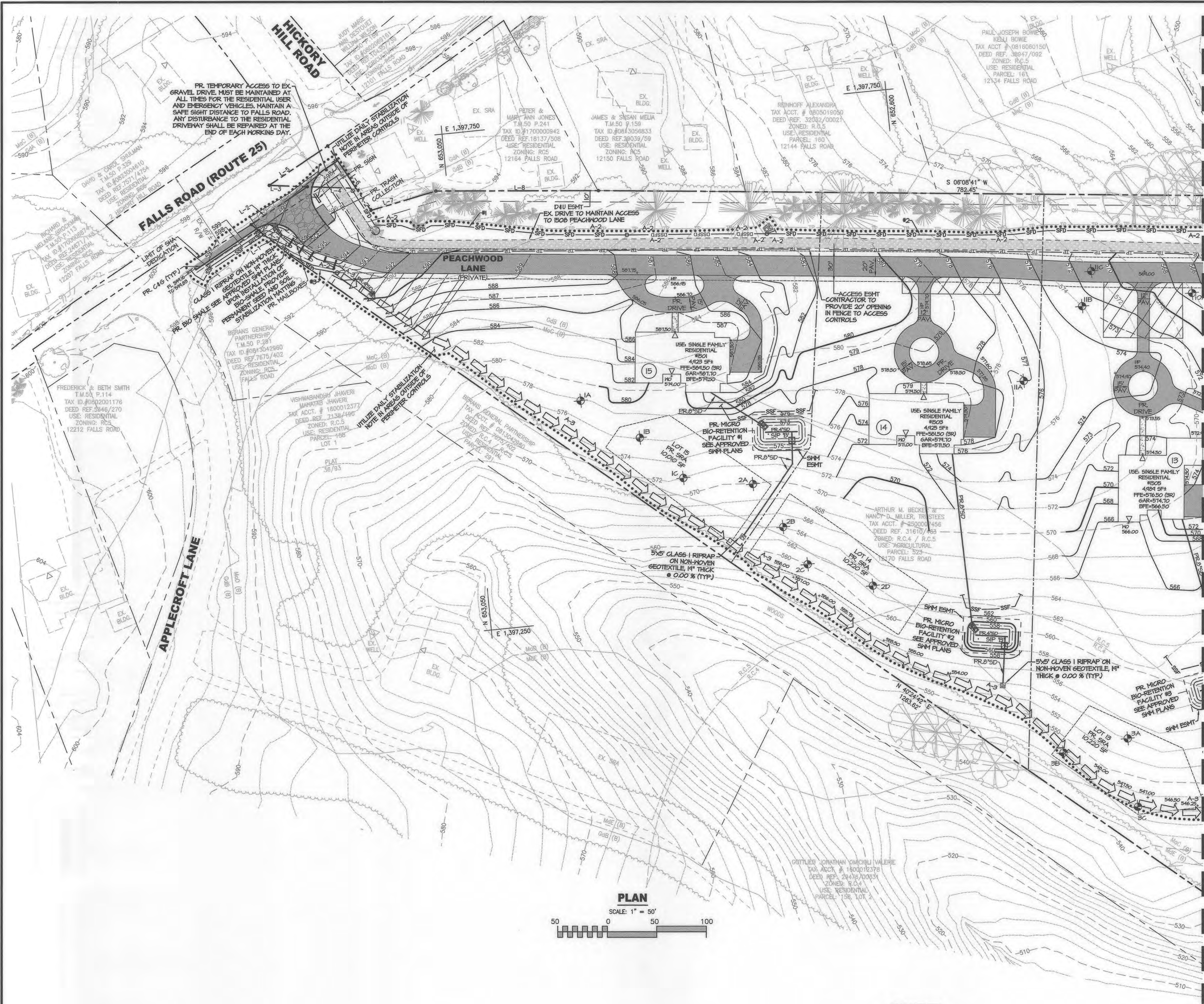
BECKER PROPERTY
PEACHWOOD LANE

EROSION AND SEDIMENT CONTROL
EXISTING CONDITIONS PLAN - 2

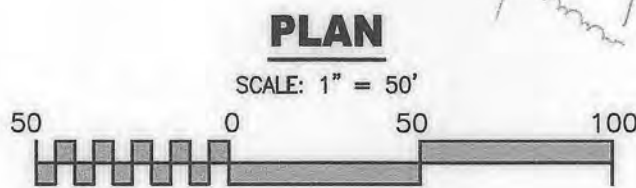


DATE	REVISIONS	JOB NO.:	14746X08
		SCALE:	1" = 50'
		DATE:	07/25/2024
		DRAWN BY:	AA
		DESIGN BY:	AA
		REVIEW BY:	JTS
		SHEET:	02 OF 38

ELECTION DISTRICT 8 BALTIMORE COUNTY, MARYLAND COUNCILMANIC DISTRICT 2



SEE MATCH LINE SHEET 04



LINE TABLE	
LINE	BEARING AND DISTANCE
L-1	N 43°47'52" E 51.52'
L-2	S 27°08'52" E 68.60'
L-3	S 07°06'00" W 38.99'
L-4	S 61°46'59" W 78.40'
L-5	S 28°48'05" E 71.52'
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DATUM
DESIGN & DRAWING BASED ON
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HORIZONTAL NAD 83 (1991)
VERTICAL NAVD 88

OWNER
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DEVELOPER
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14346 JARRETTVILLE PIKE, SUITE 102
PHOENIX, AZ 85018
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LOD = 620,000 SF (14.23 AC.)
PAI#: VIII-791

ESC 03 OF 11

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BECKER PROPERTY
PEACHWOOD LANE
EROSION AND SEDIMENT CONTROL
PROPOSED CONDITIONS PLAN - 1

DATE	REVISIONS	JOB NO.:	14746X08
		SCALE:	1" = 50'
		DATE:	07/25/2024
		DRAWN BY:	AA
		DESIGN BY:	AA
		REVIEW BY:	JTS
		SHEET:	03 OF 38

Baltimore County Soil Conservation District
APPROVED FOR SEDIMENT CONTROL
Jeffrey P. West
Date: 8-5-24

.....	LIMIT OF DISTURBANCE (LOD)
=====	EX. PROPERTY LINE
=====	EX. ADJACENT PROPERTY LINE
=====	EX. RIGHT OF WAY LINE
=====	EX. EASEMENT LINE
-----	EX. PAVEMENT
-----	EX. 2' CONTOUR
-----	EX. 10' CONTOUR
-----	EX. SOIL BOUNDARY
-----	EX. BUILDING
-----	EX. WOODS
-----	EX. WETLAND
-----	EX. CONSERVANCY AREA EASEMENT
-----	EX. FLOODPLAIN
-----	EX. FOREST BUFFER
OH-----OH	EX. OVER HEAD ELECTRIC
=====	EX. STEEP SLOPES
=====	EX. STREAM
-----	EX. ZONING
-----	EX. PERC TEST LOCATION
-----	EX. SEPTIC RESERVE AREA (SRA)
-----	EX. WELL
	SEPTIC RESERVE AREA
	10,000 S.F. MINIMUM WITH PASSED
	PERC TEST LOCATIONS
	FAILED PERC TEST LOCATION
	DRY WELL LOCATION
	PR. WELL FIELD
=====	PR. ASPHALT DRIVE
=====	PR. CONCRETE PAD
-----	PR. 1' CONTOUR
-----	PR. 2' CONTOUR
-----	PR. 10' CONTOUR
=====	PR. RIP RAP
=====	PR. CURB AND GUTTER
=====	PR. BUILDING
=====	PR. STORM DRAIN AND INLET
SSF-----SSF	PR. SUPER SILT FENCE
SF-----SF	PR. SILT FENCE
A-2-----DSGFO	PR. DOUBLE SIDED SUPER FENCE DIVERSION
SFD-----SFD	PR. SUPER FENCE DIVERSION
TP-----TP	PR. TREE PROTECTION FENCE
SFCO	PR. SILT FENCE CHECK DAM
	PR. STABILIZED CONSTRUCTION ENTRANCE
ROP III	PR. ROCK OUTLET PROTECTION
BD-----A-2	PR. EARTH DIKE (TYPE A)
	PR. BAFFLE BOARD
	PR. GABION INFLOW PROTECTION
	PR. MOUNTABLE BERM (TYPE A)
	PR. MODIFIED COMBINATION INLET PROTECTION
	PR. REMOVABLE PUMPING STATION
	PR. FILTER BAG
=====	TEMPORARY GRAVEL ACCESS DRIVE
	PR. STANDARD INLET PROTECTION TYPE 'B'
	PR. TEMPORARY ASPHALT BERM
x-----x	PR. TEMPORARY SAFETY FENCE (FOR TRAFFIC)

GRADING PERMIT # REN24-000089
SWM PERMIT # REN24-000090
LOD = 620,000 SF (14.23 AC.)
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C-04

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EROSION AND SEDIMENT CONTROL
PROPOSED CONDITIONS PLAN - 2



DATE		REVISIONS	JOB NO.: 14746X08
			SCALE: 1" = 50'
			DATE: 07/25/2024
			DRAWN BY: AA
			DESIGN BY: AA
			REVIEW BY: JTS
			SHEET: 04 OF 38

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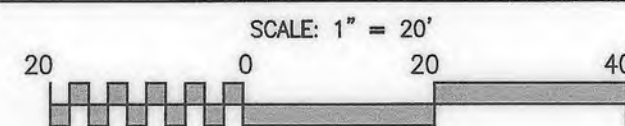
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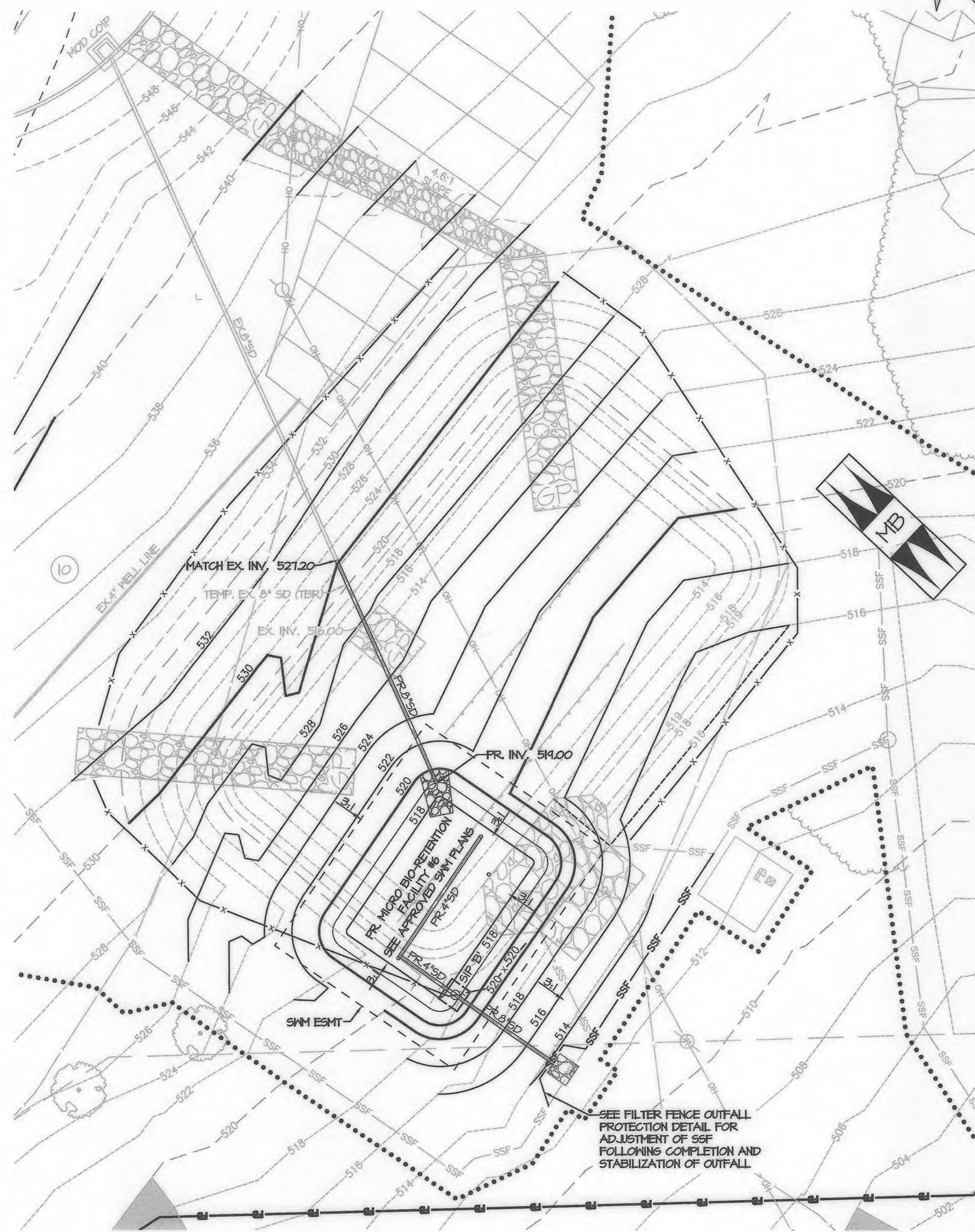


TRAP #1 FINAL GRADING INSET

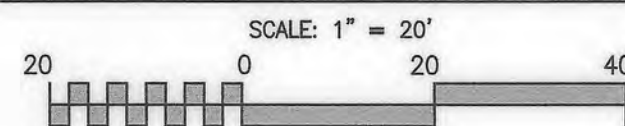


NOTE

SEE APPROVED STORMWATER MANAGEMENT PLANS FOR NOTES, DETAILS AND SPECIFICATIONS FOR THE MICRO BIO-RETENTION FACILITY INSTALLATIONS.



TRAP #2 FINAL GRADING INSET



GENERAL NOTE

THE CORRECTNESS OR COMPLETENESS OF EXISTING INFORMATION SHOWN ON THE DRAWINGS IS NOT WARRANTED OR GUARANTEED. THE CONTRACTOR SHALL VERIFY THE LOCATION OF UTILITIES AND UNDERGROUND FACILITIES, BY TEST PITS OR OTHER METHODS APPROVED BY THE OWNER'S REPRESENTATIVE, AS REQUIRED TO VERIFY EXACT LOCATIONS AND DEPTHS WITHIN THE LIMIT OF DISTURBANCE. ALL DISCREPANCIES BETWEEN INFORMATION SHOWN ON THE DRAWINGS AND THAT VERIFIED IN THE FIELD SHALL BE REPORTED TO THE OWNER'S REPRESENTATIVE PRIOR TO BEGINNING WORK.



Know what's below.
Call before you dig.

PROTECT YOURSELF, GIVE THREE WORKING DAYS NOTICE
THIS DRAWING DOES NOT INCLUDE NECESSARY COMPONENTS FOR CONSTRUCTION SAFETY. ALL CONSTRUCTION MUST BE DONE IN COMPLIANCE WITH THE OCCUPATIONAL SAFETY AND HEALTH ACT OF 1970 AND ALL RULES AND REGULATIONS THERE TO APPURTENANT.

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DESIGN & DRAWING BASED ON
MARYLAND COORDINATE SYSTEM (MCS):
HORIZONTAL: NAD 83 (1991)
VERTICAL: NAVD 88

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PROFESSIONAL CERTIFICATION

I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND, LICENSE NO. 34479, EXPIRATION DATE: 06/21/2026.

LEGEND

- LIMIT OF DISTURBANCE (LOD)
- EX. PROPERTY LINE
- EX. ADJACENT PROPERTY LINE
- EX. RIGHT OF WAY LINE
- EX. EASEMENT LINE
- EX. PAVEMENT
- EX. 2' CONTOUR
- EX. 10' CONTOUR
- Ur (D) --- EX. SOIL BOUNDARY
- EX. BUILDING
- EX. WOODS
- WT --- EX. WETLAND
- FP --- EX. FLOODPLAIN
- FB --- EX. FOREST BUFFER
- OH --- EX. OVER HEAD ELECTRIC
- EX. STEEP SLOPES
- R.C.4 --- EX. STREAM
- 6B --- EX. ZONING
- EX. PERC TEST LOCATION
- EX. SEPTIC RESERVE AREA (SRA)
- EX. WELL
- 1A --- SEPTIC RESERVE AREA
- 1B --- 10,000 S.F. MINIMUM WITH PASSED
- 1C --- PERC TEST LOCATIONS
- --- FAILED PERC TEST LOCATION
- --- DRY WELL LOCATION
- --- PR. WELL FIELD
- --- PR. ASPHALT DRIVE
- 52 --- PR. 2' CONTOUR
- 50 --- PR. 10' CONTOUR
- --- EX. STORM DRAIN
- --- PR. STORM DRAIN
- --- PR. RIP RAP
- SSF --- PR. SUPER SILT FENCE
- --- PR. STANDARD INLET PROTECTION TYPE 'B'

Baltimore County Soil Conservation District
APPROVED FOR SEDIMENT CONTROL
Jeffrey P. West 8-5-24
Date

GRADING PERMIT # REN24-000089
SWM PERMIT # REN24-000090
LOD = 620,000 SF (14.23 AC.)
PAI#: VIII-791

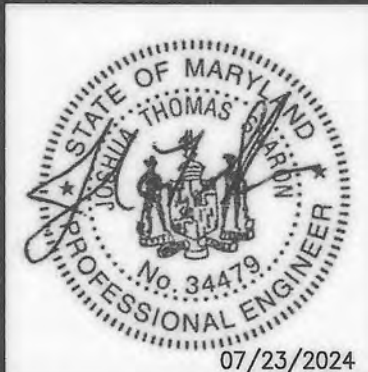
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BECKER PROPERTY

PEACHWOOD LANE
EROSION AND SEDIMENT CONTROL
FINAL GRADING INSET

DATE	REVISIONS	JOB NO.:	14745X08
		SCALE:	1" = 20'
		DATE:	07/25/2024
		DRAWN BY:	AA
		DESIGN BY:	AA
		REVIEW BY:	JTS
		SHEET:	05 OF 38

DETAIL B-1

STABILIZED CONSTRUCTION ENTRANCE

STANDARD SYMBOL

CONSTRUCTION SPECIFICATIONS

1. PLACE STABILIZED CONSTRUCTION ENTRANCE IN ACCORDANCE WITH THE APPROVED PLAN. VEHICLES MUST TRAVEL OVER THE ENTIRE LENGTH OF THE SCE. USE MINIMUM LENGTH OF 50 FEET (30 FEET FOR SINGLE RESIDENCE LOT). USE MINIMUM WIDTH OF 10 FEET. FLARE SCE 10 FEET MINIMUM AT THE EXISTING ROAD TO PROVIDE A TURNING RADIUS.

2. PIPE ALL SURFACE WATER FLOWING TO OR DIVERTED TOWARD THE SCE UNDER THE ENTRANCE, MAINTAINING POSITIVE DRAINAGE. PROTECT PIPE INSTALLED THROUGH THE SCE WITH A MOUNTABLE BERM WITH 5:1 SLOPES AND A MINIMUM OF 12 INCHES OF STONE OVER THE PIPE. PROVIDE PIPE AS SPECIFIED ON APPROVED PLAN. WHEN THE SCE IS LOCATED AT A HIGH SPOT AND HAS NO DRAINAGE TO CONVEY, A PIPE IS NOT NECESSARY. A MOUNTABLE BERM IS REQUIRED WHEN SCE IS NOT LOCATED AT A HIGH SPOT.

3. PREPARE SUBGRADE AND PLACE NONWOVEN GEOTEXTILE, AS SPECIFIED IN SECTION H-1 MATERIALS.

4. PLACE CRUSHED AGGREGATE (2 TO 3 INCHES IN SIZE) OR EQUIVALENT RECYCLED CONCRETE (WITHOUT REBAR) AT LEAST 6 INCHES DEEP OVER THE LENGTH AND WIDTH OF THE SCE.

5. MAINTAIN ENTRANCE IN A CONDITION THAT MINIMIZES TRACKING OF SEDIMENT. ADD STONE OR MAKE OTHER REPAIRS AS CONDITIONS DEMAND TO MAINTAIN CLEAN SURFACE, MOUNTABLE BERM, AND SPECIFIED DIMENSIONS. IMMEDIATELY REMOVE STONE AND/OR SEDIMENT SPILLED, DROPPED, OR TRACKED ONTO ADJACENT ROADWAY BY VACUUMING, SCRAPING, AND/OR SWEEPING. WASHING ROADWAY TO REMOVE MUD TRACKED ONTO PAVEMENT IS NOT ACCEPTABLE UNLESS WASH WATER IS DIRECTED TO AN APPROVED SEDIMENT CONTROL PRACTICE.

MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL

U.S. DEPARTMENT OF AGRICULTURE
NATURAL RESOURCES CONSERVATION SERVICE

2011

MARYLAND DEPARTMENT OF ENVIRONMENT
WATER MANAGEMENT ADMINISTRATION

STANDARD SYMBOL

DETAIL B-2

WASH RACK OPTION

STANDARD SYMBOL

CONSTRUCTION SPECIFICATIONS

1. USE A WASH RACK DESIGNED AND CONSTRUCTED/MANUFACTURED FOR THE ANTICIPATED TRAFFIC LOADS. CONCRETE, STEEL, OR OTHER MATERIALS ARE ACCEPTABLE. PRE-FABRICATED UNITS SUCH AS CATTLE GUARDS ARE ACCEPTABLE. USE MINIMUM DIMENSION OF 6 FEET x 10 FEET. ORIENT DIRECTION OF RIBS AS SHOWN ON THE DETAIL.

2. INSTALL PRIOR TO, ALONG SIDE OF, OR AS PART OF THE SCE.

3. DIRECT WASH WATER TO AN APPROVED SEDIMENT TRAPPING DEVICE.

4. KEEP AREA UNDER WASH RACK FREE OF ACCUMULATED SEDIMENT. IF DAMAGED, REPAIR OR REPLACE WASH RACK.

MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL

U.S. DEPARTMENT OF AGRICULTURE
NATURAL RESOURCES CONSERVATION SERVICE

2011

MARYLAND DEPARTMENT OF ENVIRONMENT
WATER MANAGEMENT ADMINISTRATION

STANDARD SYMBOL

DETAIL B-4-6-A

TEMPORARY SOIL STABILIZATION
MATting CHANNEL APPLICATION

STANDARD SYMBOL

CONSTRUCTION SPECIFICATIONS

1. USE MATTING THAT HAS A DESIGN VALUE FOR SHEAR STRESS EQUAL TO OR HIGHER THAN THE SHEAR STRESS DESIGNATED ON APPROVED PLANS.

2. USE TEMPORARY SOIL STABILIZATION MATTING MADE OF DEGRADABLE (LASTS 6 MONTHS MINIMUM) NATURAL OR MAN-MADE FIBERS (MOSTLY ORGANIC). MAT MUST HAVE UNIFORM THICKNESS AND DISTRIBUTION OF FIBERS THROUGHOUT AND BE SMOLDER RESISTANT. CHEMICALS USED IN THE MAT MUST BE NON-LEACHING AND NON-TOXIC TO VEGETATION AND SEED GERMINATION AND NON-HARMFUL TO THE SKIN. IF PRESENT, NETTING MUST BE EXTRUDED PLASTIC WITH A MAXIMUM MESH OPENING OF 2x2 INCHES AND SUFFICIENTLY BONDED OR SEWN ON 2 INCH CENTERS ALONG LONGITUDINAL AXIS OF THE MATERIAL TO PREVENT SEPARATION OF THE NET FROM THE PARENT MATERIAL.

3. SECURE MATTING USING STEEL STAPLES, WOOD STAKES, OR BIODEGRADABLE EQUIVALENT. STAPLES MUST BE "U" OR "T" SHAPED STEEL WIRE HAVING A MINIMUM GAUGE OF NO. 11 AND NO. 8 RESPECTIVELY. "U" SHAPED STAPLES MUST AVERAGE 1 TO 1 1/2 INCHES WIDE AND BE A MINIMUM OF 6 INCHES LONG. "T" SHAPED STAPLES MUST HAVE A MINIMUM 8 INCH MAIN LEG, A MINIMUM 1 INCH SECONDARY LEG, AND A MINIMUM 4 INCH HEAD. WOOD STAKES MUST BE ROUGH-SAWN HARDWOOD, 12 TO 24 INCHES IN LENGTH, 1x3 INCH IN CROSS SECTION, AND WEDGE SHAPED AT THE BOTTOM.

4. PERFORM FINAL GRADING, TOPSOIL APPLICATION, SEEDED PREPARATION, AND PERMANENT SEEDING IN ACCORDANCE WITH SPECIFICATIONS. PLACE MATTING WITHIN 48 HOURS OF COMPLETING SEEDING OPERATIONS UNLESS END OF WORKDAY STABILIZATION IS SPECIFIED ON THE APPROVED EROSION AND SEDIMENT CONTROL PLAN.

5. UNROLL MATTING IN DIRECTION OF WATER FLOW, CENTERING THE FIRST ROLL ON THE CHANNEL CENTERLINE. WORK FROM CENTER OF CHANNEL OUTWARD WHEN PLACING ROLLS. LAY MAT SMOOTHLY AND FIRMLY ON THE SEEDED SURFACE. AVOID STRETCHING THE MATTING.

6. KEY-IN UPSTREAM END OF EACH MAT ROLL BY DIGGING A 6 INCH (MINIMUM) TRENCH AT THE UPSTREAM END OF THE MATTING, PLACING THE ROLL END IN THE TRENCH, STAPLING THE MAT IN PLACE, REPLACING THE EXCAVATED MATERIAL, AND TAMPING TO SECURE THE MAT END.

7. OVERLAP OR ABUT THE ROLL EDGES PER MANUFACTURER RECOMMENDATIONS. OVERLAP ROLL ENDS BY 6 INCHES (MINIMUM) WITH THE UPSTREAM MAT OVERLAPPING ON TOP OF THE NEXT DOWNSTREAM MAT.

8. STAPLE/STAKE MAT IN A STAGGERED PATTERN ON 4 FOOT (MAXIMUM) CENTERS THROUGHOUT AND 2 FOOT (MAXIMUM) CENTERS ALONG SEAMS, JOINTS, AND ROLL ENDS.

9. ESTABLISH AND MAINTAIN VEGETATION SO THAT REQUIREMENTS FOR ADEQUATE VEGETATIVE ESTABLISHMENT ARE CONTINUOUSLY MET IN ACCORDANCE WITH SECTION B-4 VEGETATIVE STABILIZATION.

MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL

U.S. DEPARTMENT OF AGRICULTURE
NATURAL RESOURCES CONSERVATION SERVICE

2011

MARYLAND DEPARTMENT OF ENVIRONMENT
WATER MANAGEMENT ADMINISTRATION

STANDARD SYMBOL

DETAIL B-4-6-B

TEMPORARY SOIL STABILIZATION
SLOPE APPLICATION

STANDARD SYMBOL

CONSTRUCTION SPECIFICATIONS

1. USE MATTING THAT HAS A DESIGN VALUE FOR SHEAR STRESS EQUAL TO OR HIGHER THAN THE SHEAR STRESS DESIGNATED ON APPROVED PLANS.

2. USE TEMPORARY SOIL STABILIZATION MATTING MADE OF DEGRADABLE (LASTS 6 MONTHS MINIMUM) NATURAL OR MAN-MADE FIBERS (MOSTLY ORGANIC). MAT MUST HAVE UNIFORM THICKNESS AND DISTRIBUTION OF FIBERS THROUGHOUT AND BE SMOLDER RESISTANT. CHEMICALS USED IN THE MAT MUST BE NON-LEACHING AND NON-TOXIC TO VEGETATION AND SEED GERMINATION AND NON-HARMFUL TO THE SKIN. IF PRESENT, NETTING MUST BE EXTRUDED PLASTIC WITH A MAXIMUM MESH OPENING OF 2x2 INCHES AND SUFFICIENTLY BONDED OR SEWN ON 2 INCH CENTERS ALONG LONGITUDINAL AXIS OF THE MATERIAL TO PREVENT SEPARATION OF THE NET FROM THE PARENT MATERIAL.

3. SECURE MATTING USING STEEL STAPLES, WOOD STAKES, OR BIODEGRADABLE EQUIVALENT. STAPLES MUST BE "U" OR "T" SHAPED STEEL WIRE HAVING A MINIMUM GAUGE OF NO. 11 AND NO. 8 RESPECTIVELY. "U" SHAPED STAPLES MUST AVERAGE 1 TO 1 1/2 INCHES WIDE AND BE A MINIMUM OF 6 INCHES LONG. "T" SHAPED STAPLES MUST HAVE A MINIMUM 8 INCH MAIN LEG, A MINIMUM 1 INCH SECONDARY LEG, AND A MINIMUM 4 INCH HEAD. WOOD STAKES MUST BE ROUGH-SAWN HARDWOOD, 12 TO 24 INCHES IN LENGTH, 1x3 INCH IN CROSS SECTION, AND WEDGE SHAPED AT THE BOTTOM.

4. PERFORM FINAL GRADING, TOPSOIL APPLICATION, SEEDED PREPARATION, AND PERMANENT SEEDING IN ACCORDANCE WITH SPECIFICATIONS. PLACE MATTING WITHIN 48 HOURS OF COMPLETING SEEDING OPERATIONS UNLESS END OF WORKDAY STABILIZATION IS SPECIFIED ON THE APPROVED EROSION AND SEDIMENT CONTROL PLAN.

5. UNROLL MATTING DOWNSLOPE. LAY MAT SMOOTHLY AND FIRMLY UPON THE SEEDED SURFACE. AVOID STRETCHING THE MATTING.

6. OVERLAP OR ABUT ROLL EDGES PER MANUFACTURER RECOMMENDATIONS. OVERLAP ROLL ENDS BY 6 INCHES (MINIMUM) WITH THE UPSLOPE MAT OVERLAPPING ON TOP OF THE DOWNSLOPE MAT.

7. KEY IN THE UPSLOPE END OF MAT 6 INCHES (MINIMUM) BY DIGGING A TRENCH, PLACING THE MATTING ROLL END IN THE TRENCH, STAPLING THE MAT IN PLACE, REPLACING THE EXCAVATED MATERIAL, AND TAMPING TO SECURE THE MAT END IN THE KEY.

8. STAPLE/STAKE MAT IN A STAGGERED PATTERN ON 4 FOOT (MAXIMUM) CENTERS THROUGHOUT AND 2 FOOT (MAXIMUM) CENTERS ALONG SEAMS, JOINTS, AND ROLL ENDS.

9. ESTABLISH AND MAINTAIN VEGETATION SO THAT REQUIREMENTS FOR ADEQUATE VEGETATIVE ESTABLISHMENT ARE CONTINUOUSLY MET IN ACCORDANCE WITH SECTION B-4 VEGETATIVE STABILIZATION.

MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL

U.S. DEPARTMENT OF AGRICULTURE
NATURAL RESOURCES CONSERVATION SERVICE

2011

MARYLAND DEPARTMENT OF ENVIRONMENT
WATER MANAGEMENT ADMINISTRATION

STANDARD SYMBOL

DETAIL C-1

EARTH DIKE

STANDARD SYMBOL

FLOW CHANNEL STABILIZATION

A-1 SEED WITH STRAW MULCH AND TACK. (NOT ALLOWED FOR CLEAR WATER DIVERSION.)

A-2/B-2 SEED WITH SOIL STABILIZATION MATTING OR LINE WITH SOD.

A-3/B-3 4 TO 7 INCH STONE OR EQUIVALENT RECYCLED CONCRETE PRESSED INTO SOIL A MINIMUM OF 7 INCHES AND FLUSH WITH GROUND.

CONSTRUCTION SPECIFICATIONS

1. REMOVE AND DISPOSE OF ALL TREES, BRUSH, STUMPS, OBSTRUCTIONS, AND OTHER OBJECTIONABLE MATERIAL SO AS NOT TO INTERFERE WITH PROPER FUNCTION OF EARTHDIKE.

2. EXCAVATE OR SHAPE EARTH DIKE TO LINE. GRADE, AND CROSS SECTION AS SPECIFIED. BANK PROJECTIONS OR OTHER IRREGULARITIES ARE NOT ALLOWED.

3. COMPACT FILL.

4. CONSTRUCT FLOW CHANNEL ON AN UNINTERRUPTED, CONTINUOUS GRADE, ADJUSTING THE LOCATION DUE TO FIELD CONDITIONS AS NECESSARY TO MAINTAIN POSITIVE DRAINAGE.

5. PROVIDE OUTLET PROTECTION AS REQUIRED ON APPROVED PLAN.

6. STABILIZE EARTH DIKE WITHIN THREE DAYS OF INSTALLATION. STABILIZE FLOW CHANNEL FOR CLEAR WATER DIVERSION WITHIN 24 HOURS OF INSTALLATION.

7. MAINTAIN LINE, GRADE, AND CROSS SECTION. REMOVE ACCUMULATED SEDIMENT AND DEBRIS, AND MAINTAIN POSITIVE DRAINAGE. KEEP EARTH DIKE AND POINT OF DISCHARGE FREE OF EROSION, AND CONTINUOUSLY MEET REQUIREMENTS FOR ADEQUATE VEGETATIVE ESTABLISHMENT IN ACCORDANCE WITH SECTION B-4 VEGETATIVE STABILIZATION.

8. UPON REMOVAL OF EARTH DIKE, GRADE AREA FLUSH WITH EXISTING GROUND. WITHIN 24 HOURS OF REMOVAL STABILIZE DISTURBED AREA WITH TOPSOIL, SEED, AND MULCH, OR AS SPECIFIED ON APPROVED PLAN.

MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL

U.S. DEPARTMENT OF AGRICULTURE
NATURAL RESOURCES CONSERVATION SERVICE

2011

MARYLAND DEPARTMENT OF ENVIRONMENT
WATER MANAGEMENT ADMINISTRATION

STANDARD SYMBOL

DETAIL C-5

TEMPORARY ASPHALT BERM

STANDARD SYMBOL

CONSTRUCTION SPECIFICATIONS

1. CONSTRUCT BERM ON AN UNINTERRUPTED, CONTINUOUS GRADE.

2. INSTALL BERM TO CONFORM TO CROSS SECTION DIMENSIONS OF A UNIFORM HEIGHT OF 8 INCHES MINIMUM AND APPROXIMATE WIDTH OF 3 1/2 FEET.

3. PROVIDE OUTLET PROTECTION AS REQUIRED ON PLAN.

4. COMPACT ASPHALT BERM.

5. REPAIR DAMAGED ASPHALT. REMOVE ACCUMULATED SEDIMENT AND DEBRIS. MAINTAIN POSITIVE DRAINAGE.

6. UPON REMOVAL OF ASPHALT BERM, RETURN TO ORIGINAL CONDITIONS OR AS SPECIFIED ON APPROVED PLAN.

MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL

U.S. DEPARTMENT OF AGRICULTURE
NATURAL RESOURCES CONSERVATION SERVICE

2011

MARYLAND DEPARTMENT OF ENVIRONMENT
WATER MANAGEMENT ADMINISTRATION

STANDARD SYMBOL

DETAIL C-8

MOUNTABLE BERM

STANDARD SYMBOL

CONSTRUCTION SPECIFICATIONS

1. USE MINIMUM WIDTH OF 10 FEET TO ALLOW FOR VEHICULAR PASSAGE.

2. PLACE NONWOVEN GEOTEXTILE, AS SPECIFIED IN SECTION H-1 MATERIALS, OVER THE EARTH MOUND PRIOR TO PLACING STONE.

3. PLACE 2 TO 3 INCH STONE OR EQUIVALENT RECYCLED CONCRETE AT LEAST 6 INCHES DEEP OVER THE LENGTH AND WIDTH OF THE MOUNTABLE BERM.

4. MAINTAIN LINE, GRADE, AND CROSS SECTION. ADD STONE OR MAKE OTHER REPAIRS AS CONDITIONS DEMAND TO MAINTAIN SPECIFIED DIMENSIONS. REMOVE ACCUMULATED SEDIMENT AND DEBRIS. MAINTAIN POSITIVE DRAINAGE.

MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL

U.S. DEPARTMENT OF AGRICULTURE
NATURAL RESOURCES CONSERVATION SERVICE

2011

MARYLAND DEPARTMENT OF ENVIRONMENT
WATER MANAGEMENT ADMINISTRATION

STANDARD SYMBOL

DETAIL C-9

SUPER FENCE DIVERSION

STANDARD SYMBOL

CONSTRUCTION SPECIFICATIONS

1. USE 42 INCH HIGH, 6 GAUGE OR HEAVIER CHAIN LINK FENCING (2 3/4 INCH MAXIMUM OPENING).

2. USE 2 3/4 INCH DIAMETER, GALVANIZED STEEL POSTS. THE POSTS SHALL BE SIX FEET IN LENGTH, SPACED NO FURTHER THAN TEN FEET APART. THE POSTS DO NOT NEED TO BE SET IN CONCRETE.

3. FASTEN CHAIN LINK FENCE SECURELY TO THE FENCE POSTS WITH WIRE TIES.

4. SECURE THE WOVEN COATED POLYETHYLENE FABRIC TO THE CHAIN LINK FENCE WITH TIES SPACED EVERY 24 INCHES AT TOP, 18 INCHES BELOW THE TOP AND BELOW GROUND.

5. EMBED THE WOVEN COATED POLYETHYLENE FABRIC A MINIMUM OF 8 INCHES INTO THE GROUND. LAY THE WOVEN COATED POLYETHYLENE FABRIC IN THE BOTTOM OF THE 24 INCH WIDE TRENCH AND PROVIDE THE DESIGNATED FLOW CHANNEL STABILIZATION.

6. WHEN TWO SECTIONS OF WOVEN COATED POLYETHYLENE FABRIC ADJOIN EACH OTHER, OVERLAP BY 6 INCHES AND FOLD WITH SEAM FACING DOWNSLOPE.

7. KEEP FLOW SURFACE ALONG DIVERSION FENCE AND POINT OF DISCHARGE FREE OF EROSION. REMOVE ACCUMULATED SEDIMENT AND DEBRIS, AND RE-ESTABLISH THE DESIGNATED VEGETATIVE STABILIZATION OR PROVIDE CLEAN STONE. MAINTAIN POSITIVE DRAINAGE. REPLACE WOVEN COATED POLYETHYLENE IF TORN, IF UNDERMINING OCCURS, REINSTALL FENCE.

MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL

U.S. DEPARTMENT OF AGRICULTURE
NATURAL RESOURCES CONSERVATION SERVICE

REVISED - 2020

MARYLAND DEPARTMENT OF ENVIRONMENT
WATER MANAGEMENT ADMINISTRATION

STANDARD SYMBOL

DETAIL D-3-2

GABION INFLOW PROTECTION

STANDARD SYMBOL

CONSTRUCTION SPECIFICATIONS

1. PROVIDE NONWOVEN GEOTEXTILE, AS SPECIFIED IN SECTION H-1 MATERIALS, UNDER THE BOTTOM AND ALONG SIDES OF ALL GABION BASKETS.

2. USE BASKETS MADE OF MINIMUM 1 1/2 GAUGE WIRE.

3. CONSTRUCT GABION INFLOW PROTECTION BY ARRANGING 9 X 3 X 1 FOOT GABION BASKETS TO FORM A TRAPEZOIDAL SECTION WITH A 3 FOOT BOTTOM WIDTH, 1 FOOT MINIMUM DEPTH, 3 FOOT SIDE WALLS, AND 2:1 OR FLATTER SIDE SLOPES. FILL GABION BASKETS WITH 4 TO 7 INCH STONE OR EQUIVALENT RECYCLED CONCRETE WITHOUT REBAR OR WEIR MESH.

4. INSTALL ENTRANCE AND EXIT SECTIONS AS SHOWN ON THE PROFILE.

5. INSTALL GABIONS IN ACCORDANCE WITH MANUFACTURER RECOMMENDATIONS.

6. BLEND GABIONS INTO EXISTING GROUND.

7. MAINTAIN LINE, GRADE, AND CROSS SECTION. REMOVE ACCUMULATED SEDIMENT AND DEBRIS. KEEP POINTS OF INFLOW AND OUTFLOW FREE OF EROSION.

MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL

U.S. DEPARTMENT OF AGRICULTURE
NATURAL RESOURCES CONSERVATION SERVICE

2011

MARYLAND DEPARTMENT OF ENVIRONMENT
WATER MANAGEMENT ADMINISTRATION

STANDARD SYMBOL

Baltimore County Soil Conservation District
APPROVED FOR SEDIMENT CONTROL

Date: 8-5-24

GRADING PERMIT # REN24-000089

SWM PERMIT # REN24-000090

LOD = 620,000 SF (14.23 AC.)

PAI#: VIII-791

ESC 06 OF 11

C-06

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BECKER PROPERTY
PEACHWOOD LANE
EROSION AND SEDIMENT CONTROL
DETAILS - 1

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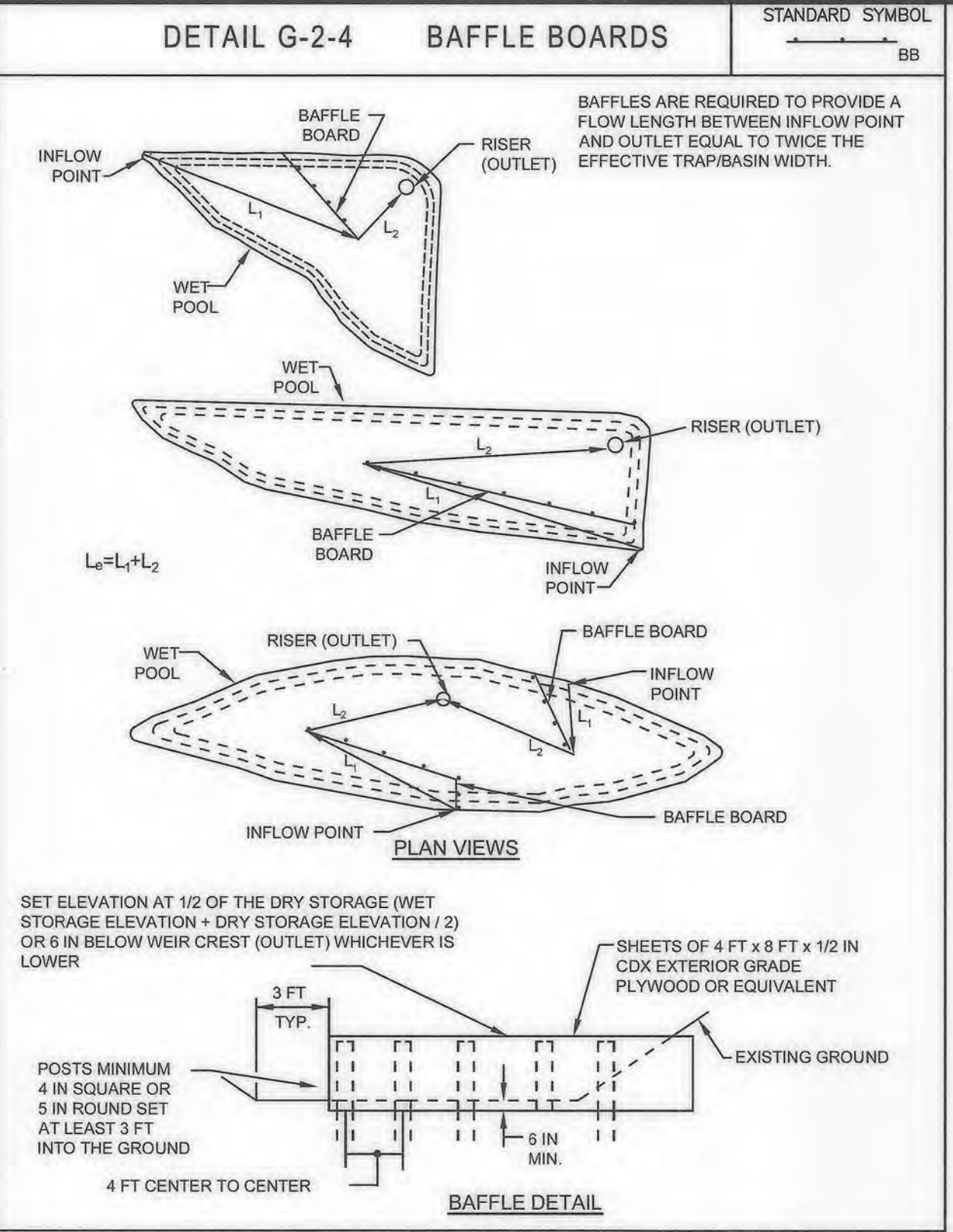
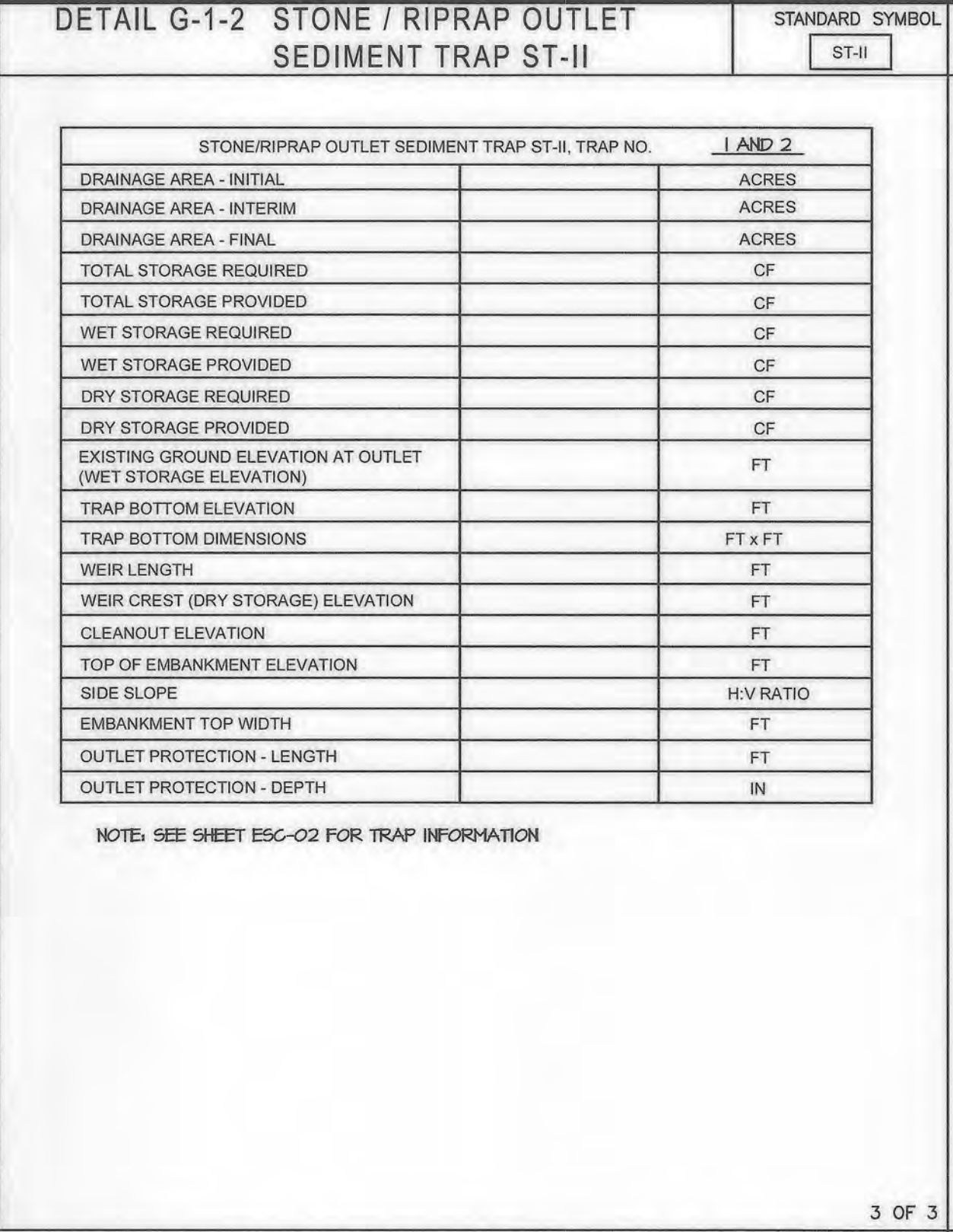
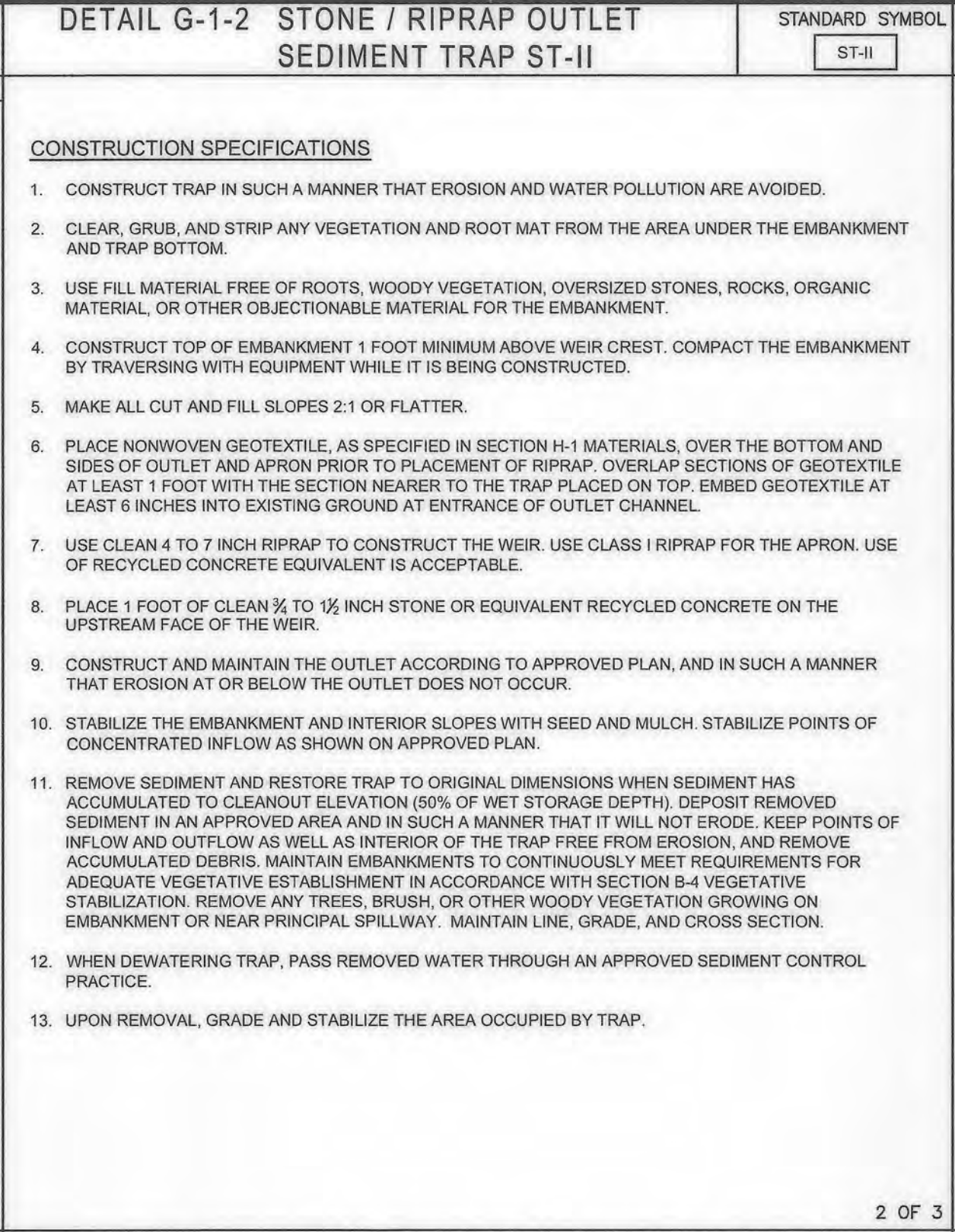
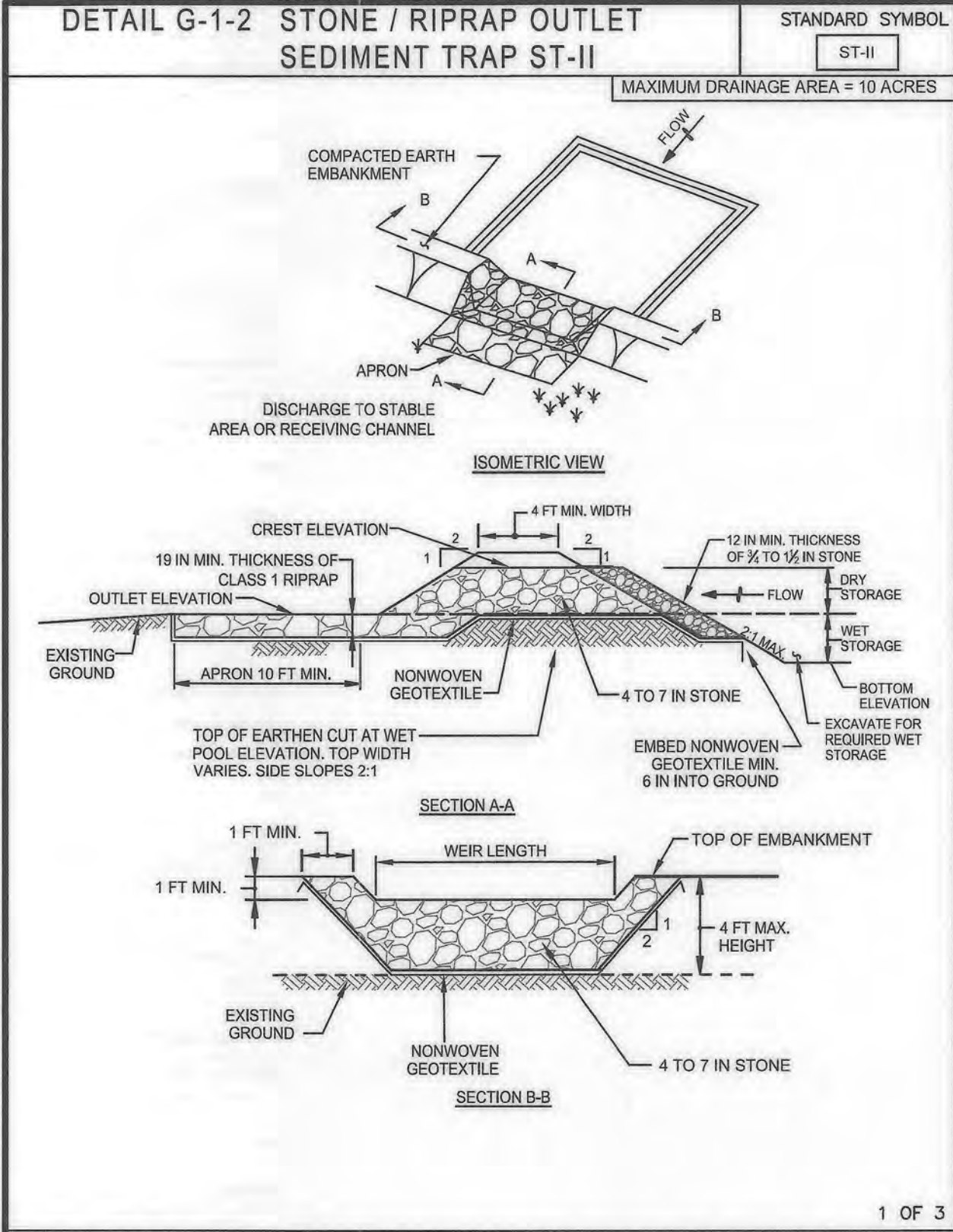
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MARYLAND COORDINATE SYSTEM (MCS):
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PROFESSIONAL CERTIFICATION

I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR
APPROVED BY ME, AND THAT I AM A DULY LICENSED
PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF
MARYLAND, LICENSE NO. 34479, EXPIRATION DATE: 06/21/2026.

DATE	REVISIONS	JOB NO.:
		14746X08
		SCALE: N/A
		DATE: 07/25/2024
		DRAWN BY: AA
		DESIGN BY: AA
		REVIEW BY: JTS
		SHEET: 06 OF 38



MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL

U.S. DEPARTMENT OF AGRICULTURE NATURAL RESOURCES CONSERVATION SERVICE	MODIFIED FOR USE IN BALTIMORE COUNTY	MARYLAND DEPARTMENT OF ENVIRONMENT WATER MANAGEMENT ADMINISTRATION
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MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL

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

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

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H-1 STANDARDS AND SPECIFICATIONS FOR MATERIALS

Table H.1: Geotextile Fabrics

PROPERTY	TEST METHOD	WOVEN SUT FILM GEOTEXTILE				MONOFLAMENT GEOTEXTILE		NONWOVEN GEOTEXTILE	
		MD	CD	MD	CD	MD	CD	MD	CD
GRAB TENSILE STRENGTH	ASTM D-4632	200 lb	200 lb	370 lb	250 lb	200 lb	200 lb	200 lb	200 lb
GRAB TENSILE ELONGATION	ASTM D-4632	15%	10%	15%	15%	50%	50%	50%	50%
TRAPEZOIDAL TEAR STRENGTH	ASTM D-4533	75 lb	75 lb	100 lb	80 lb	80 lb	80 lb	80 lb	80 lb
PUNCTURE STRENGTH	ASTM D-6241	450 lb		900 lb		450 lb			
APPARENT OPENING SIZE ²	ASTM D-4751	US SIEVE 30 (0.59 mm)		US SIEVE 70 (0.21 mm)		US SIEVE 70 (0.21 mm)			
PERMITTIVITY	ASTM D-4491	0.05 SEC ⁻¹		0.28 SEC ⁻¹		1.1 SEC ⁻¹			
ULTRAVIOLET RESISTANCE RETAINED AT 500 HOURS	ASTM D-4355	70% STRENGTH		70% STRENGTH		70% STRENGTH			

1. ALL NUMERIC VALUES EXCEPT APPARENT OPENING SIZE (AOS) REPRESENT MINIMUM AVERAGE ROLL VALUES (MARV). MARV IS CALCULATED AS THE TYPICAL MINUS TWO STANDARD DEVIATIONS. MD IS MACHINE DIRECTION; CD IS CROSS DIRECTION.
2. VALUES FOR AOS REPRESENT THE AVERAGE MAXIMUM OPENING
- GEOTEXTILES MUST BE EVALUATED BY THE NATIONAL TRANSPORTATION PRODUCT EVALUATION PROGRAM (NTPPE) AND CONFORM TO THE VALUES IN TABLE H.1.
- THE GEOTEXTILE MUST BE INERT TO COMMONLY ENCOUNTERED CHEMICALS AND HYDROCARBONS AND MUST BE ROT AND MILDEW RESISTANT. THE GEOTEXTILE MUST BE MANUFACTURED FROM FIBERS CONSISTING OF LONG CHAIN SYNTHETIC POLYMERS AND COMPOSED OF A MINIMUM OF 95 PERCENT BY WEIGHT OF POLYOLEFINS OR POLYESTERS, AND FORMED INTO A STABLE NETWORK SO THE FILAMENTS OR YARNS RETAIN THEIR DIMENSIONAL STABILITY RELATIVE TO EACH OTHER, INCLUDING SELVAGES.
- WHEN MORE THAN ONE SECTION OF GEOTEXTILE IS NECESSARY, OVERLAP THE SECTIONS BY AT LEAST ONE FOOT. THE GEOTEXTILE MUST BE PULLED TAUT OVER THE APPLIED SURFACE. EQUIPMENT MUST NOT RUN OVER THE EXPOSED FABRIC. WHEN PLACING RIPRAP ON GEOTEXTILE, DO NOT EXCEED A ONE FOOT DROP HEIGHT.

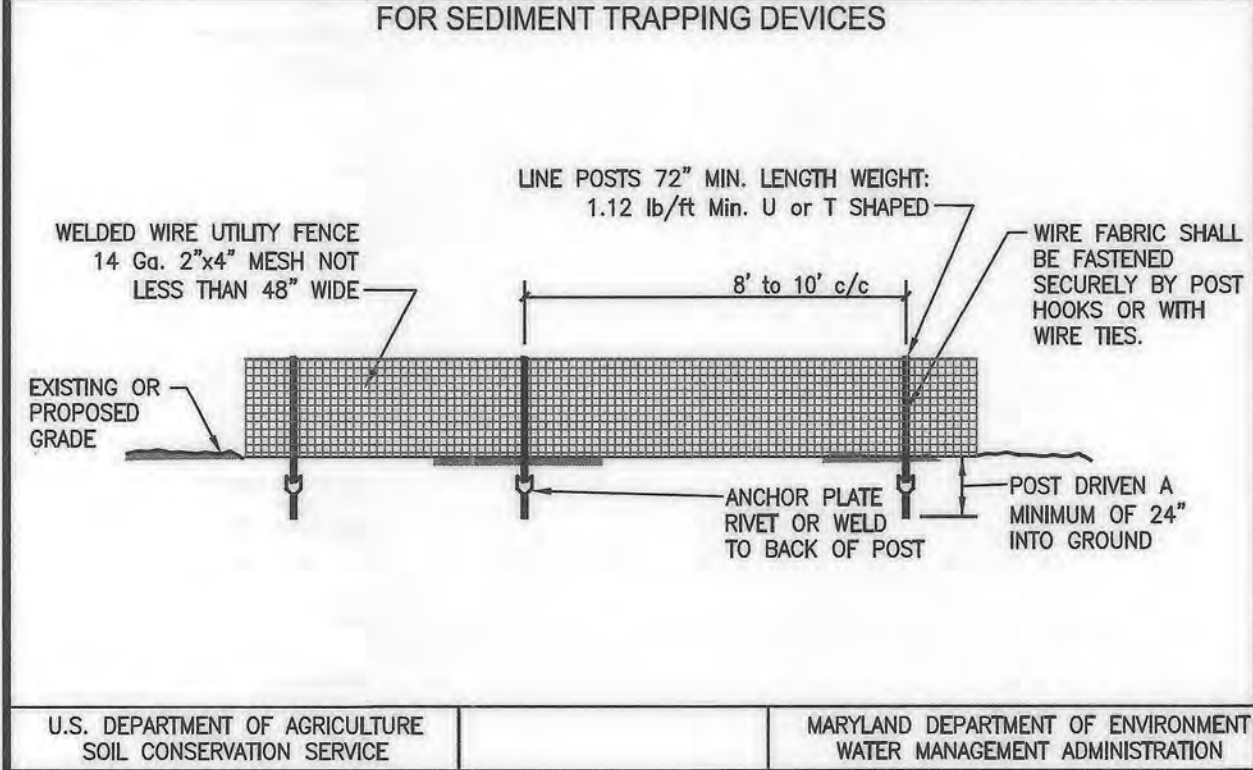
MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL

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

U.S. DEPARTMENT OF AGRICULTURE NATURAL RESOURCES CONSERVATION SERVICE		MARYLAND DEPARTMENT OF ENVIRONMENT WATER MANAGEMENT ADMINISTRATION
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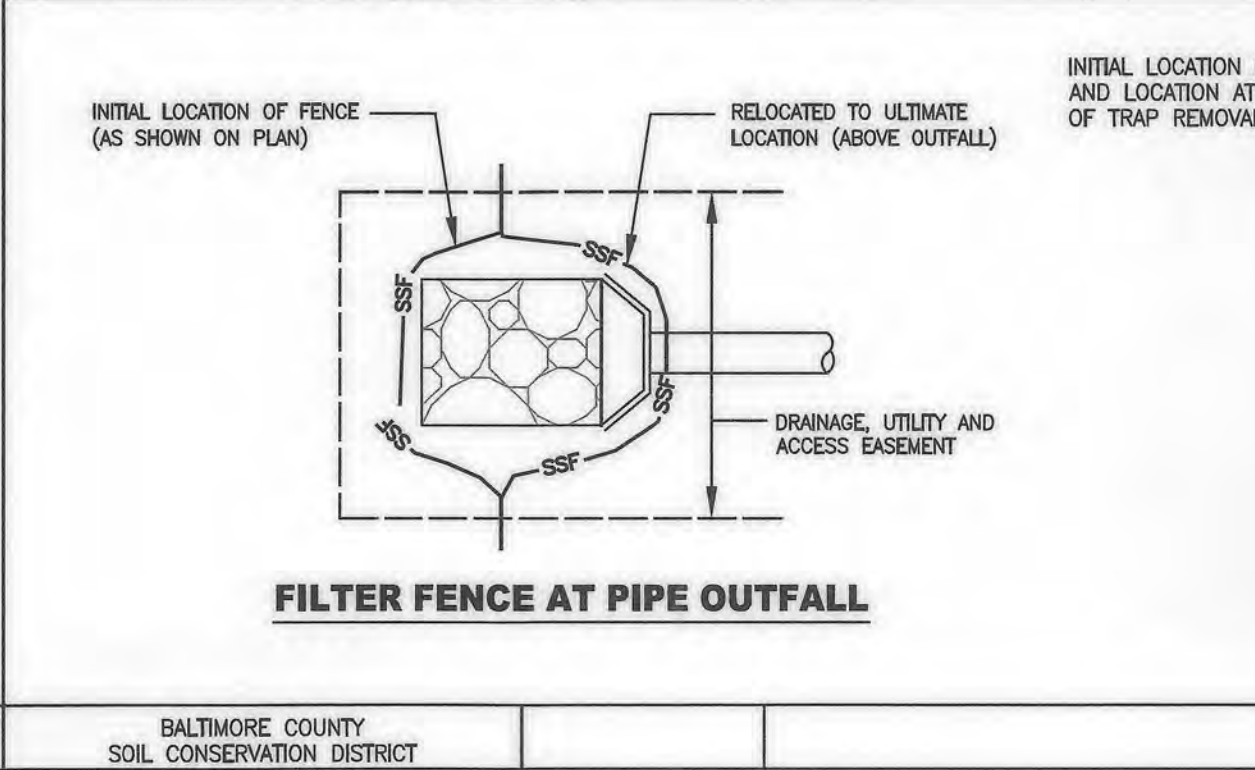
DETAIL - TEMPORARY SAFETY FENCE FOR SEDIMENT TRAPPING DEVICES



MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL

U.S. DEPARTMENT OF AGRICULTURE NATURAL RESOURCES CONSERVATION SERVICE	2011	MARYLAND DEPARTMENT OF ENVIRONMENT WATER MANAGEMENT ADMINISTRATION
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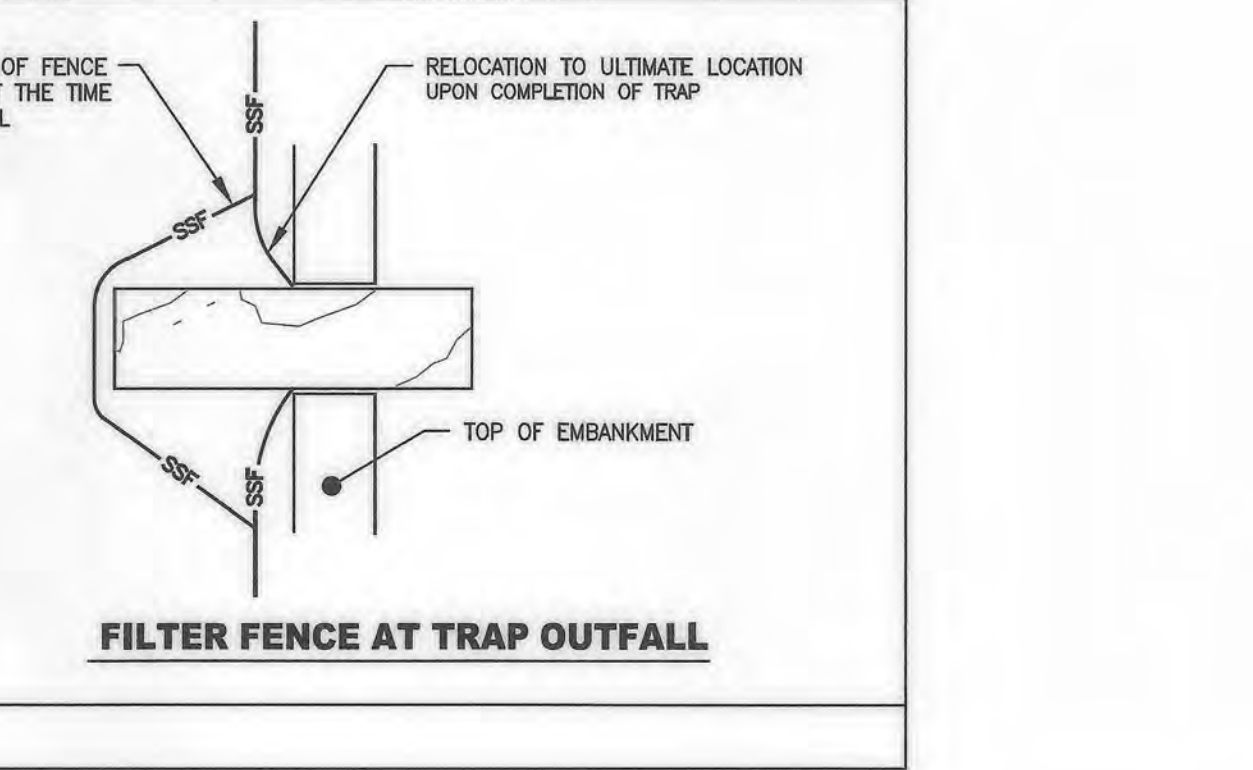
DETAIL - FILTER FENCE OUTFALL PROTECTION



MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL

U.S. DEPARTMENT OF AGRICULTURE NATURAL RESOURCES CONSERVATION SERVICE	2011	MARYLAND DEPARTMENT OF ENVIRONMENT WATER MANAGEMENT ADMINISTRATION
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DETAIL H-6 ONSITE CONCRETE WASHOUT STRUCTURE



MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL

U.S. DEPARTMENT OF AGRICULTURE NATURAL RESOURCES CONSERVATION SERVICE	2011	MARYLAND DEPARTMENT OF ENVIRONMENT WATER MANAGEMENT ADMINISTRATION
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DETAIL H-6 ONSITE CONCRETE WASHOUT STRUCTURE



Table H.2: Stone Size

TYPE	SIZE RANGE	d ₅₀	d ₁₀₀	AASHTO	MIDSIZE WEIGHT ³
NUMBER 57 ¹	3/8 to 1 1/2 inch	1/2 in	1 1/2 in	M-43	N/A
NUMBER 1	2 to 3 inch	2 1/2 in	3 in	M-43	N/A
RIPRAP ² (CLASS 0)	4 to 7 inch	5 1/2 in	7 in	N/A	N/A
CLASS I	N/A	9 1/2 in	15 in	N/A	40 lb
CLASS II	N/A	16 in	24 in	N/A	200 lb
CLASS III	N/A	23 in	34 in	N/A	600 lb

¹ This classification is to be used on the upstream face of stone outlets and check dams.

² This classification is to be used for gabions.

³ Optimum gradation is 50 percent of the stone being above and 50 percent below the midsize.

Stone must be composed of a well graded mixture of stone sized so that fifty (50) percent of the pieces by weight are larger than the size determined by using the charts. A well graded mixture, as used herein, is defined as a mixture composed primarily of larger stone sizes but with a sufficient mixture of other sizes to fill the smaller voids between the stones. The diameter of the largest stone in such a mixture must not exceed the respective d₁₀₀ selected from Table H.2. The d₅₀ refers to the median diameter of the stone. This is the size for which 50 percent, by weight, will be smaller and 50 percent will be larger.

Note: Recycled concrete equivalent may be substituted for all stone classifications for temporary control measures only. Concrete broken into the sizes meeting the appropriate classification, containing no steel reinforcement, and having a minimum density of 150 pounds per cubic foot may be used as an equivalent.

H.2



GRADING PERMIT # REN24-000089
SWM PERMIT # REN24-000090
LOD = 620,000 SF (14.23 AC.)
PAI#: VIII-791

ESC 09 OF 11

C-09

MORRIS & RITCHIE ASSOCIATES, INC.
ENGINEERS, PLANNERS, SURVEYORS AND LANDSCAPE ARCHITECTS
1220-B EAST JOPPA ROAD, SUITE 400K
TOWSON, MARYLAND 21286
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FAX (410) 821-1748
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BECKER PROPERTY
PEACHWOOD LANE
EROSION AND SEDIMENT CONTROL
DETAILS - 4

07/23/2024

DATE	REVISIONS	JOB NO.:
		14746X08
		SCALE: N/A
		DATE: 07/25/2024
		DRAWN BY: AA
		DESIGN BY: AA
		REVIEW BY: JTS
		SHEET: 09 OF 38

ELECTION DISTRICT 8 BALTIMORE COUNTY, MARYLAND COUNCILMANIC DISTRICT 2

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DATUM
DESIGN & DRAWING BASED ON
MARYLAND COORDINATE SYSTEM (MCS):
HORIZONTAL NAD 83 (1991)
VERTICAL NAVD 88

PROFESSIONAL CERTIFICATION
I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND, LICENSE NO. 34479, EXPIRATION DATE: 06/21/2026.

FOREST BUFFER AND FOREST CONSERVATION FENCE NOTE

BLAZE ORANGE SAFETY FENCE SHALL BE INSTALLED AT THE LIMIT OF DISTURBANCE (LOD) WHERE THE LOD IS 50 FEET OR LESS FROM ANY FOREST BUFFER, FOREST RETENTION AREA OR FOREST CONSERVATION EASEMENT. THE ACCURACY OF THIS FENCE LOCATION SHALL BE APPROVED BY BALTIMORE COUNTY DEPARTMENT OF ENVIRONMENTAL PROTECTION AND SUSTAINABILITY AT THE TIME OF THE PRECONSTRUCTION MEETING.

FOREST PROTECTION PLAN AND ALTERNATIVE ANALYSIS NOTES

- ANY FOREST CONSERVATION EASEMENT (FCE) AND FOREST BUFFER EASEMENT SHOWN HEREON IS SUBJECT TO PROTECTIVE COVENANTS WHICH MAY BE FOUND IN THE LAND RECORDS OF BALTIMORE COUNTY AND WHICH RESTRICT THE DISTURBANCE AND USE OF THESE AREAS.
- THERE SHALL BE NO CLEARING, GRADING, CONSTRUCTION OR DISTURBANCE OF VEGETATION IN THE FOREST CONSERVATION EASEMENT AND FOREST BUFFER EASEMENT, EXCEPT AS PERMITTED BY BALTIMORE COUNTY DEPARTMENT OF ENVIRONMENTAL PROTECTION AND SUSTAINABILITY (DEPS).
- NO STOCKPILES, PARKING AREAS, EQUIPMENT CLEANING AREAS, ETC. SHALL OCCUR WITHIN AREAS DESIGNATED AS FOREST CONSERVATION EASEMENTS OR AS FOREST BUFFER EASEMENTS.

STEEP SLOPE CONSTRUCTION

TO DISPEL SLIDING WHEN WORK IS IN PROXIMITY TO STEEP SLOPES THE CONTRACTOR SHALL GRADE BENCHES AS NEEDED.

STANDARD NONDISTURBANCE NOTE

THERE SHALL BE NO CLEARING, GRADING, CONSTRUCTION OR DISTURBANCE OF VEGETATION IN THE FOREST BUFFER EASEMENT/RESERVATION OR OTHER FOREST RETENTION AREAS, EXCEPT AS PERMITTED BY THE BALTIMORE COUNTY DEPARTMENT OF ENVIRONMENTAL PROTECTION AND SUSTAINABILITY.

GRADING NOTE

THE PROPOSED GRADING SHOWN ON THIS PLAN MEETS THE REQUIREMENTS SET FORTH BY THE BALTIMORE COUNTY DEPARTMENT OF ENVIRONMENTAL PROTECTION AND SUSTAINABILITY AND COMPLIES WITH ARTICLE 33, TITLE 5 OF THE BALTIMORE COUNTY CODE. HOWEVER, DUE TO THE BUILDING TYPES AND LAYOUT, SOME FIELD ADJUSTMENTS MAY BE REQUIRED. ALL CHANGES MUST COMPLY WITH THE ABOVE MENTIONED REQUIREMENTS.

DAILY STABILIZATION NOTE

THIS NOTE SHOULD BE USED FOR MINIMAL AREAS WITHIN THE LIMITS OF DISTURBANCE THAT DO NOT DRAIN TO A SEDIMENT CONTROL MEASURE AND/OR WHERE THE INSTALLATION OF CONTROLS IS NOT FEASIBLE. (ROAD WIDENING, SIDEWALK INSTALLATION, WELL LINE INSTALLATION ETC.). THE CONTRACTOR SHALL ONLY DISTURB THAT AREA WHICH CAN BE COMPLETED AND STABILIZED BY THE END OF EACH WORKING DAY. STABILIZATION SHALL BE AS FOLLOWS:

- FOR AREAS TO BE PAVED, THE APPLICATION OF STONE BASE.
- FOR AREAS TO BE VEGETATIVELY STABILIZED:
 - PERMANENT SEED AND SOIL STABILIZATION MATTING OR SOD FOR ALL STEEP SLOPES, CHANNELS, OR SWALES.
 - PERMANENT SEED AND MULCH FOR ALL OTHER AREAS. ANY AREAS WHICH CANNOT BE STABILIZED BY THE END OF EACH WORKING DAY MUST HAVE SILT FENCE INSTALLED ON THE DOWNSLOPE SIDE.

SUPER SILT FENCE MAINTENANCE NOTE

CONTRACTOR SHALL INSPECT THE SUPER SILT FENCE (SSF) AFTER EACH STORM EVENT AND PERFORM MAINTENANCE. MAINTENANCE SHALL CONSIST OF, BUT NOT LIMITED TO, REMOVAL OF ANY ACCUMULATED SEDIMENT ALONG AND/OR ABOVE THE FENCE LOCATION WHICH WILL RESTRICT ITS FUNCTION. IN ADDITION, ANY PORTION OF SSF DAMAGED SHALL BE REPAIRED AND/OR REPLACED IN ACCORDANCE WITH THE STANDARDS AND SPECIFICATIONS. IN THE EVENT THAT THE SSF IS TEMPORARILY REMOVED FOR CONTRACTOR TO CONDUCT WORK; SUCH AS, FOR RETAINING WALL CONSTRUCTION, THE SSF SHALL BE REPAIRED AND/OR REPLACED BY THE END OF THE WORK DAY OR PRIOR TO A STORM EVENT, WHICHEVER COMES FIRST.

STABILIZED CONSTRUCTION ENTRANCE NOTE

- MAINTENANCE – THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC RIGHT-OF-WAY. THIS MAY REQUIRE PERIODIC TOP DRESSING WITH ADDITIONAL STONE AS CONDITIONS DEMAND AND REPAIR AND/OR CLEANOUT OF ANY MEASURES USED TO TRAP SEDIMENT. ALL SEDIMENT SKILLED, DROPPED, WASHED OR TRACKED ONTO THE PUBLIC RIGHT-OF-WAY MUST BE REMOVED IMMEDIATELY BY VACUUMING, SCRAPING AND/OR SWEEPING. WASHING THE ROADWAY TO REMOVE SEDIMENT TRACKED ONTO PAVEMENT IS NOT ACCEPTABLE.
- PERIODIC INSPECTION AND NEEDED MAINTENANCE SHALL BE PROVIDED AFTER EACH RAIN.

INLET PROTECTION NOTE

THE CONTRACTOR IS REQUIRED TO INSTALL INLET PROTECTION ON ALL STORM DRAIN INLETS WITH THE EXCEPTION OF THE FOLLOWING:

- ANY INLET OUT-FALLING DIRECTLY INTO A SEDIMENT TRAPPING DEVICE.
- INLETS ON PRIVATE OR PUBLIC PAVED ROADWAYS OPEN TO THE PUBLIC. ALL INLET PROTECTION WILL BE INSTALLED AS DIRECTED BY THE INSPECTOR IN ACCORDANCE WITH THE "2011 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL, PAGE E.23 (OR AS MAY BE AMENDED). THE REMOVAL OF ANY INLET PROTECTION DEVICES WILL REQUIRE APPROVAL FROM THE INSPECTOR.
- STORM DRAIN SHALL BE FLUSHED PRIOR TO TRAPPING DEVICE REMOVAL.

TEMPORARY STOCKPILE NOTES

TEMPORARY STOCKPILES SHALL BE:

- LOCATED WITHIN THE LIMIT OF DISTURBANCE (LOD).
- DRAIN TO A FUNCTIONING SEDIMENT CONTROL DEVICE.
- POSITIONED TO NOT IMPEDE UPON, OR IMPAIR THE FUNCTION OF SAID DEVICE.
- POSITIONED TO NOT ALTER DRAINAGE DIVIDES.

EROSION AND SEDIMENT CONTROL NOTES

- REFER TO "2011 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL" FOR STANDARD DETAILS AND DETAILED SPECIFICATIONS OF EACH PRACTICE SPECIFIED HEREIN.
- WITH THE APPROVAL OF THE SEDIMENT CONTROL INSPECTOR, MINOR FIELD ADJUSTMENTS CAN AND WILL BE MADE TO INSURE THE CONTROL OF ANY SEDIMENT. CHANGES IN SEDIMENT CONTROL PRACTICES REQUIRE PRIOR APPROVAL OF THE SEDIMENT CONTROL INSPECTOR AND THE BALTIMORE COUNTY SOIL CONSERVATION DISTRICT.
- AT THE END OF EACH WORKING DAY, ALL SEDIMENT CONTROL PRACTICES WILL BE INSPECTED AND LEFT IN OPERATIONAL CONDITION.
- FOLLOWING INITIAL SOIL DISTURBANCE OR RE-DISTURBANCE, PERMANENT OR TEMPORARY STABILIZATION MUST BE COMPLETED WITHIN:
 - A. THREE (3) CALENDAR DAYS AS TO THE SURFACE OF ALL PERIMETER CONTROL, DIKES SWALES, DITCHES, PERIMETER SLOPES, AND ALL SLOPES STEEPER THAN THREE HORIZONTAL TO ONE VERTICAL (3:1), AND
 - B. SEVEN (7) CALENDAR DAYS AS TO ALL OTHER DISTURBED OR GRADED AREAS ON THE PROJECT SITE NOT UNDER ACTIVE GRADING.
- ANY CHANGE TO THE GRADING PROPOSED ON THIS PLAN REQUIRES RE-SUBMISSION TO BALTIMORE COUNTY SOIL CONSERVATION DISTRICT FOR APPROVAL.
- DUST CONTROL WILL BE PROVIDED FOR ALL DISTURBED AREAS. REFER TO "2011 MARYLAND STANDARDS AND SPECIFICATIONS FOR EROSION AND SEDIMENT CONTROL", pg. H.22, FOR ACCEPTABLE METHODS AND SPECIFICATIONS FOR DUST CONTROL.
- ANY VARIATIONS FROM THE SEQUENCE OF OPERATIONS STATED ON THIS PLAN REQUIRES THE APPROVAL OF THE SEDIMENT CONTROL INSPECTOR AND THE BALTIMORE COUNTY SOIL CONSERVATION DISTRICT PRIOR TO THE INITIATION OF THE CHANGE.
- EXCESS OUT OR BORROW MATERIAL SHALL GO TO, OR COME FROM, RESPECTIVELY, A SITE WITH AN OPEN GRADING PERMIT AND APPROVED SEDIMENT CONTROL PLAN.
- THE FOLLOWING ITEM MAY BE USED AS APPLICABLE: REFER TO "MARYLAND'S GUIDELINES TO WATERWAY CONSTRUCTION" BY THE WATER MANAGEMENT ADMINISTRATION OF THE MARYLAND DEPARTMENT OF THE ENVIRONMENT, REVISED NOVEMBER 2000, FOR STANDARD DETAILS AND DETAILED SPECIFICATIONS OF EACH PRACTICE SPECIFIED HEREIN FOR WATERWAY CONSTRUCTION.
- PUMPING SEDIMENT-LADEN WATER INTO WATERS OF THE STATE IS STRICTLY PROHIBITED. ANY PORTABLE DEWATERING DEVICE MUST BE LOCATED WITHIN THE LIMIT OF DISTURBANCE.
- UPON STABILIZATION OF THE BASE PAVEMENT AND AT THE DIRECTION OF THE SEDIMENT CONTROL INSPECTOR, RELOCATE THE STABILIZED CONSTRUCTION ENTRANCE(S) AND INSTALL ADDITIONAL CONTROL MEASURES (STABILIZED CONSTRUCTION ENTRANCES, SILT FENCES, SUPER SILT FENCES) AS NEEDED TO CONTROL SEDIMENT RUNOFF FROM DISTURBED AREAS. THE ADDITIONAL CONTROLS MUST NOT ALTER DRAINAGE PATTERNS.

SEDIMENT CONTROL TRAFFIC NOTE

ANY TRAVEL LANE CLOSED BEFORE 9:00AM OR AFTER 3:30 PM MUST BE APPROVED BY BALTIMORE COUNTY BUREAU OF TRAFFIC ENGINEERING AND TRANSPORTATION PLANNING AT (410)-887-3554.

UTILITY NOTE

- CONTRACTOR SHOULD OPEN ONLY THAT SECTION OF TRENCH THAT CAN BE BACKFILLED AND STABILIZED EACH DAY. IF TRENCH MUST REMAIN OPEN LONGER THAN ONE DAY, SILT FENCE SHALL BE PLACED BELOW (DOWNSLOPE OF) THE TRENCH.
- PLACE ALL EXCAVATED MATERIAL ON THE UPHILL SIDE OF THE TRENCH.
- ANY SEDIMENT CONTROLS DISTURBED BY UTILITY CONSTRUCTION SHALL BE REPAIRED IMMEDIATELY.

MAINTENANCE NOTE

CONTRACTOR SHALL INSPECT AND MAINTAIN ALL SEDIMENT CONTROL MEASURES AND DEVICES AFTER EVERY STORM EVENT. MAINTENANCE SHALL INCLUDE, BUT NOT BE LIMITED TO THE REMOVAL OF ALL ACCUMULATED SEDIMENT. GEOTEXTILE FABRIC SHALL BE REPLACED AS NEEDED TO ENSURE PROPER FUNCTION.

SLOPE STABILIZATION

THE CONTRACTOR SHALL VEGETATIVELY STABILIZE STEEP SLOPES, CHANNELS, OR SWALES BY MEANS OF PERMANENT SEED AND SOIL STABILIZATION MATTING OR SOD. THIS MUST BE COMPLIED WITH EVEN IF DISTURBED AREA IS CONTAINED WITHIN EROSION AND SEDIMENT CONTROL MEASURES.

TRUCK WASHING NOTE

WHEELS MUST BE CLEANED TO REMOVE SEDIMENT PRIOR TO ENTRANCE ONTO PUBLIC RIGHT-OF-WAY. WHEN WASHING IS REQUIRED, IT SHALL BE DONE ON AN AREA STABILIZED WITH STONE AND WHICH DRAINS INTO AN APPROVED SEDIMENT TRAPPING DEVICE.

FENCING NOTE

IF REQUIRED BY THE SEDIMENT CONTROL INSPECTOR, FENCING SHALL BE INSTALLED TO PREVENT ACCESS TO THE SITE BY CHILDREN.

TRAP/BASIN FLOW DIVERSION NOTE

TO PREVENT SLOPE EROSION, WITHIN SEDIMENT TRAPPING DEVICES, ADEQUATELY SIZED AND STABILIZED FLOW DIVERSION MEASURES (I.E. EARTH DIKE, TEMPORARY SWALE, PERIMETER DIKE/SWALE, SUPER FENCE DIVERSION, ETC) SHALL BE INSTALLED AT THE UPSLOPE EXTENT OF TRAP, AND BASIN STORAGE AREAS TO DIVERT ALL FLOWS TO APPROPRIATE INFLOW PROTECTION DEVICES. THESE MEASURES WILL BE LOCATED BY THE CONTRACTOR AND THEREFORE NOT SHOWN ON THE PLAN VIEW.

INLET DIVERSION NOTE

TO PREVENT BYPASS OF INLETS, PROVIDE DIVERSION MEASURES (EARTH BERM, STONE BERM OR TEMPORARY ASPHALT BERM) TO DIRECT FLOWS TO INLETS.

NOTE: ALL REQUIRED STATE, FEDERAL, AND LOCAL PERMITS MUST BE OBTAINED PRIOR TO PRECONSTRUCTION MEETING.

SEQUENCE OF CONSTRUCTION

- NOTIFY BALTIMORE COUNTY DEPARTMENT OF PERMITS, APPROVALS AND INSPECTIONS, SEDIMENT CONTROL, (PAI, SC) (410-887-3226) AT LEAST 48 HOURS PRIOR TO BEGINNING WORK. ESTABLISH A PRE-CONSTRUCTION MEETING DATE. NOTIFY THE ENGINEER IN CHARGE (410-821-1680) AT LEAST 5 DAYS PRIOR TO COMMENCING CONSTRUCTION.
- IF APPLICABLE, IMPLEMENT THE FOREST PROTECTION MEASURES DETAILED ON THE APPROVED FOREST CONSERVATION PLAN. ANY DISTURBED AREA OF THE FOREST BUFFER EASEMENT AND FOREST CONSERVATION EASEMENT MUST BE RESTORED IN ACCORDANCE WITH THE APPROVED FOREST CONSERVATION PLAN AS SOON AS PRACTICAL. ORANGE HIGH VISIBILITY FENCE SHALL BE MANUALLY INSTALLED ALONG THE LIMIT OF DISTURBANCE WHEREVER THE LIMIT OF DISTURBANCE IS WITHIN 50 FEET OF THE FOREST BUFFER EASEMENT OR FOREST CONSERVATION EASEMENT. THIS SHALL BE COMPLETED BY AND INSPECTED AT THE PRE-CONSTRUCTION MEETING.
- AFTER THE PRE-CONSTRUCTION MEETING AND WITH THE APPROVAL OF BALTIMORE COUNTY DEPARTMENT OF PERMITS, APPROVALS AND INSPECTIONS, SEDIMENT CONTROL AND THE SEDIMENT CONTROL INSPECTOR, CLEAR AND GRUB AS NECESSARY FOR AND PERFORM INSTALLATION OF THE FOLLOWING SEDIMENT CONTROL MEASURES AND DEVICES (AS SHOWN ON ESC SHEET 01 AND 02 OF 11):
 - TEMPORARY ACCESS TO EXISTING GRAVEL DRIVE TO PROVIDE ACCESS TO 1508 PEACHWOOD LANE (E.K.A. 12168 FALLS ROAD) AT ALL TIMES FOR THE RESIDENTIAL USER AND EMERGENCY VEHICLES. MAINTAIN A SAFE SIGHT DISTANCE TO FALLS ROAD. ANY DISTURBANCE TO THE RESIDENTIAL DRIVEWAY SHALL BE REPAIRED AT THE END OF EACH WORKING DAY.
 - TEMPORARY ASPHALT BERM (SEE DETAIL & SIFC, 3A ABOVE)
 - ORANGE HIGH VISIBILITY FENCE ALONG TEMPORARY ACCESS AND EXISTING GRAVEL DRIVE WITH 20' OPENING
 - STABILIZED CONSTRUCTION ENTRANCE
 - SUPER SILT FENCE BELOW SEDIMENT TRAPS #1 & #2
 - SUPER SILT FENCE
 - SILT FENCE
 - SUPER FENCE DIVERSION #1
 - DOUBLE SIDED SUPER FENCE DIVERSION FOR CLEAN WATER DIVERSION AND ASSOCIATED ROCK OUTLET PROTECTION
- NOTIFY BALTIMORE COUNTY DEPARTMENT OF PERMITS, APPROVALS, AND INSPECTIONS, SEDIMENT CONTROL, (PAI, SC) UPON COMPLETION OF SAID INSTALLATION.
- WITH PERMISSION OF THE SEDIMENT CONTROL INSPECTOR, CONSTRUCT SEDIMENT CONTROL TRAPS #1 AND #2:
 - EXCAVATE TO BOTTOMS OF TRAPS #1 AND #2 AND CONSTRUCT EMBANKMENT AREAS INCLUDING STONE WEIRS.
 - INSTALL GABION INFLOW PROTECTIONS AND BAFFLES AS SHOWN ON ESC SHEET 02 OF 11.
 - ONCE TRAP #2 OUTLET IS FUNCTIONAL, INSTALL SUPER FENCE DIVERSION #2 CONVEYING TO TRAP #2 AS SHOWN ON ESC SHEET 01 AND 02 OF 11.
 - COMPLETE GRADING IN THE REMAINDER OF THE SEDIMENT TRAPS SHAPING THE POOL AREA TO DESIGN CONFIGURATIONS EXCESS MATERIAL SHALL BE PLACED UPSLOPE OF THE TRAP, WHERE IT WILL DRAIN TO THE TRAP POOL AREA, OR HAUL TO A SITE WITH AN OPEN GRADING PERMIT AND AN APPROVED EROSION AND SEDIMENT CONTROL PLAN.
 - INSTALL REMOVABLE PUMPING STATION (RPS) IN THE POOL AREAS AS SHOWN ON ESC SHEET 02 OF 11. INSTALL FILTER BAGS. RPS TO BE USED FOR MAINTENANCE PURPOSES SUCH AS TRAP CLEAN OUT, AND AT THE TIME OF TRAP REMOVAL.
 - INSTALL EARTH DIKES (TYPE A) AND MOUNTABLE BERMS AS SHOWN ON ESC SHEET 01 AND 02 OF 11. INSTALL SUPER FENCE DIVERSION #3.
 - STABILIZE ALL DISTURBED AREAS PER SEEDING SPECIFICATIONS OUTLINED ON ESC SHEET 11 OF 11.
 - ADJUST SUPER SILT FENCE AT TRAP OUTLETS PER FILTER FENCE OUTFALL PROTECTION DETAIL.
- NOTIFY BALTIMORE COUNTY DEPARTMENT OF PERMITS, APPROVALS, AND INSPECTIONS, SEDIMENT CONTROL, (PAI, SC) UPON COMPLETION OF SAID INSTALLATION.
- WITH THE APPROVAL OF BALTIMORE COUNTY DEPARTMENT OF PERMITS, APPROVALS AND INSPECTIONS, SEDIMENT CONTROL AND THE SEDIMENT CONTROL INSPECTOR, CLEAR, GRUB AND MASS GRADE THE REMAINDER OF SITE BEGIN DEMOLITION OF EXISTING FEATURES AS SHOWN ON ESC SHEET 01 AND 02 OF 11. CONTRACTOR SHALL INSPECT AND MAINTAIN ALL SEDIMENT CONTROL DEVICES AS CALLED FOR IN THE "MAINTENANCE NOTE" ON ESC SHEET 10 OF 11. (ALL CHANNELS AND SLOPES 3:1 OR GREATER WILL REQUIRE PERMANENT SEED WITH TEMPORARY SOIL STABILIZATION MATTING.)
- GRADE SWM BIO-SWALE AND MICRO BIO-RETENTION FACILITIES #1, #2, #3, #4 AND #5 PER THE APPROVED SWM PLANS. AS SUBGRADES ARE REACHED, INSTALL STORM DRAINS AND SWM OUTFALLS AS SHOWN ON ESC SHEET 03 AND 04 OF 11. INSTALL TEMPORARY STORM DRAINS TO TRAPS #1 AND #2 WITH WATER TIGHT SEAL USING NON-SHRINK EPOXY CEMENT (SEE DETAIL ON ESC SHEET 10 OF 11) INSTALL SSF ABOVE MICRO BIO-RETENTION FACILITIES AND SIP, TYPE B INLET PROTECTIONS AS SHOWN ON ESC SHEET 03 AND 04 OF 11. INSTALL 1-1 WITH PROPOSED OUTLET TO GABION PROTECTION WITHIN TRAP #2. INSTALL MOD COIP UPON INSTALLATION OF 1-1 AS SHOWN ON ESC SHEET 04 OF 11.
- NOTE: DO NOT INSTALL FILTER MEDIA OR UNDERDRAINS UNTIL SWM FACILITIES ARE MADE ACTIVE. USE PORTABLE SEDIMENT TANKS (PST) AS NEEDED OR DIRECTED BY THE INSPECTOR. PST ARE TO BE USED TO DEWATER FACILITY AREAS AFTER EACH STORM EVENT.
- INSTALL NEW ROAD (PEACHWOOD LANE) AND DRIVEWAY STONE SUBBASE, BASE COURSE PAVEMENT AND CURB & GUTTER. A SUBSTANTIAL AREA OF STONE SUBBASE SHALL BE INSTALLED TO THE SATISFACTION OF THE S.C. INSPECTOR TO ALLOW FOR PARKING, STAGING, & ACCESS PRIOR TO BUILDING CONSTRUCTION. INSTALL GABION INFLOW PROTECTION, RIPRAP AND 3' CURB CUT (ADJACENT TO 1-1) TO DIRECT FLOW TO TRAP #2 AS SHOWN ON ESC SHEET 04 OF 11. DELAY DRIVEWAY SPUR CONSTRUCTION TO 1508 PEACHWOOD LANE.
- HOUSE CONSTRUCTION, SRA INSTALLATION AND UTILITY CONNECTIONS TO RUN CONCURRENTLY AT THIS TIME.
- FINE GRADE AND VEGETATIVELY STABILIZE ALL DISTURBED AREAS NOT TO BE PAVED. ALL PROPOSED STEEP SLOPES, 3:1 OR GREATER, SHALL BE STABILIZED WITH PERMANENT SEED AND SOIL STABILIZATION MATTING.
- UPON COMPLETION AND STABILIZATION OF CONTRIBUTING DRAINAGE AREAS AND WITH THE APPROVAL OF THE S.C. INSPECTOR, INSTALL FILTER MEDIA, UNDERDRAINS AND MAKE SWM FACILITIES ACTIVE. CONVERT OUTLET RIPRAP PADS TO PLUNGE POOLS (SEE APPROVED SWM PLANS).
- COMPLETE SURFACE COURSE OF PAVING OPERATIONS.
- UPON COMPLETION OF THE PROPOSED ROAD AND WITH THE PERMISSION OF THE SEDIMENT CONTROL INSPECTOR, WITHIN ONE WORK DAY, INSTALL DRIVEWAY STONE SUBBASE, BASE COURSE PAVEMENT AND COMPLETE SURFACE COURSE PAVING OPERATIONS TO THE EXISTING DRIVEWAY OF 1508 PEACHWOOD LANE TO PROPOSED ROAD AS SHOWN ON ESC SHEET 04 OF 11. REMOVE TEMPORARY ACCESS DRIVE, CLEAR AND GRUB EXISTING GRAVEL DRIVE, AND ORANGE BLAZE FENCE ALONG THE ACCESS TO 1508 PEACHWOOD LANE. RESIDENT OF 1508 PEACHWOOD LANE MUST BE NOTIFIED 24 HOURS PRIOR TO COMMENCING THIS TRANSITION.
- UPON COMPLETION AND STABILIZATION OF SITE WITH ESTABLISHED VEGETATION AND WITH PERMISSION OF THE SEDIMENT CONTROL INSPECTOR REMOVE ALL SEDIMENT CONTROL MEASURES WITH THE EXCEPTION OF EARTH DIKES, SFD #2 CONVEYING TO TRAP #2, TAB, AND SSF BELOW TRAPS #1 AND #2 AND STABILIZE THOSE AREAS DISTURBED BY THIS PROCESS.
- REMOVE TRAP #1 AND #2 AS FOLLOWS:
 - WITH A 3-DAY DRY WEATHER FORECAST, REMOVE SUPER FENCE DIVERSIONS AND TAB DRAINING TO TRAPS #1 AND #2. REMOVE EARTH DIKES DRAINING TO TRAP #1 AND #2 AND SFD #2.
 - ONCE REMOVED, FLUSH STORM DRAINS AND DEWATER TRAPS USING THE REMOVABLE PUMPING STATION AND FILTER BAGS. REMOVE SEDIMENT (INCLUDING SOFT SUB BASE SOIL) FROM THE TRAP AND DISPOSE OF AT A SITE WITH AN APPROVED SEDIMENT CONTROL PLAN AND AN OPEN GRADING PERMIT.
 - REMOVE TEMPORARY STORM DRAINS, TRAP BAFFLE BOARDS, GP, AND RPS/RB'S.
 - ADJUST SSF BELOW TRAP #1 AS SHOWN ON ESC SHEET 06 OF 11 (INSETS).
- GRADE SWM MICRO BIO-RETENTION FACILITY #6 PER THE APPROVED SWM PLANS. AS SUBGRADES ARE REACHED, REMOVE TEMPORARY STORM DRAINS AT FACILITIES #3 AND #6 AND INSTALL STORM DRAIN AND SWM OUTFALLS AS SHOWN ON ESC SHEET 05 OF 11 & THE APPROVED SWM PLANS. PROPER COORDINATION IS TO BE MAINTAINED BETWEEN REMOVAL OF TRAPS AND CONNECTING PIPE WITH STORMWATER FACILITY INSTALLATION TO ALLOW FOR SWITCHING THE PROPOSED STORM DRAIN TO PERMANENT CONNECTION TO PREVENT SEDIMENT FROM LEAVING THE SITE VIA THE STORM DRAIN. ADJUST SSF AT MICRO BIO-RETENTION OUTLET #6 PER FILTER FENCE OUTFALL PROTECTION DETAIL.
- NOTE: DO NOT INSTALL FILTER MEDIA OR UNDERDRAINS UNTIL SWM FACILITIES ARE MADE ACTIVE. USE PORTABLE SEDIMENT TANKS (PST) AS NEEDED OR DIRECTED BY THE INSPECTOR. PST ARE TO BE USED TO DEWATER FACILITY AREAS AFTER EACH STORM EVENT.
- BEGIN FILLING IN TRAPS #1 AND #2 PER FINAL GRADING INSETS AS SHOWN ON ESC SHEET 05 OF 11. ALL PROPOSED SLOPES 3:1 OR GREATER, SHALL BE STABILIZED WITH PERMANENT SEED AND SOIL STABILIZATION MATTING.
- UPON COMPLETION AND STABILIZATION OF CONTRIBUTING DRAINAGE AREAS AND WITH THE APPROVAL OF THE SEDIMENT CONTROL INSPECTOR, INSTALL FILTER MEDIA, UNDERDRAINS AND MAKE SWM FACILITIES #3 AND #6 ACTIVE.
- UPON COMPLETION AND STABILIZATION OF SITE WITH ESTABLISHED VEGETATION AND WITH PERMISSION OF THE SEDIMENT CONTROL INSPECTOR REMOVE ANY REMAINING SEDIMENT CONTROL MEASURES AND STABILIZE THOSE AREAS DISTURBED BY THIS PROCESS.
- INSTALL LANDSCAPING.
- AS-BUILT SURVEY AND STUDY TO BE COMPLETED AND SUBMITTED TO BALTIMORE COUNTY DEPARTMENT OF ENVIRONMENTAL PROTECTION AND SUSTAINABILITY (DEPS) WITHIN 30 DAYS OF THE COMPLETION OF FACILITIES CONVERSION.

DISSIMILAR PIPE COUPLERS

Technical information

SPECIFICATIONS

- Securing Straps:
- 4"- 24" pipe: 409 stainless steel
 - 30"- 60" pipe: High Tensile Polyester Webbing (1" min width)

All typical properties are based on ASTM C877-09 and ASTM D3212 test methods.

PERFORMANCE

In a laboratory setting, the coupler has been third party tested to prevent infiltration into the joint when the joint is subjected to 30 feet head pressure (13 psi) per ASTM C877-09, as well as hold 22" mercury (74KPA) internal vacuum with no leakage detected per ASTM D3212.

Since character of installation can neither be predicted nor controlled by MarMac, we make no claim on the hydrostatic performance of this product in field applications.

STORAGE

DP Couplers should be stored carefully in their original packaging, out of direct sunlight and protected from the elements. Materials should be kept away from direct heat, sparks and open flame. For optimum results, store in a tepid (60°-80°F) environment prior to installation.

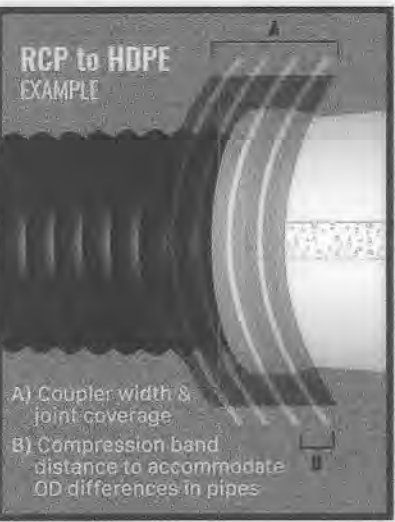
INSTALLATION

The coupler shall be placed around the pipe, mastic side to the pipe, spanning the joint (see illustration). The protective release film shall be removed and the coupler applied with the overlap at the top of the pipe. The straps shall be secured (outside straps first) on the larger outside diameter pipe (when applicable) with the proper tools. Then the straps on the outside of the smaller outside diameter pipe shall be secured. The inside straps shall be tightened last. The closing flap shall cover the exposed strap work area, completing the joint.

TYPICAL PROPERTIES

	MIN	MAX
Rubberized Mastic		
Ash-inert matter	8 %	15 %
Volatiles	0.1 %	2.0 %
Softening temp	175 °F	
Specific gravity	0.95	1.05
Penetration	60 dmm	90 dmm
Flow	10 mm	10 mm
Polyethylene Backing		
Tensile strength	4000 psi	
Elongation at break	100 %	
Tear resistance	1500 psi	
Water absorption		0.01 %
Reinforcing Mesh Element		
Tensile strength		
Warp	75 lb/in	
Fill	75 lb/in	
Elongation at break		
Warp	20 %	
Fill	20 %	

CAUTION: Prior to use, please read the Manufacturer Warranty & Disclaimer found at marmac.com/cp/disclaimer.



Quality Matters.

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v1.0 0322

DISSIMILAR PIPE COUPLERS

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DATUM

DESIGN & DRAWING BASED ON
MARYLAND COORDINATE SYSTEM (MCS):
HORIZONTAL NAVD 83 (1991)
VERTICAL NAVD 88

PROFESSIONAL CERTIFICATION

I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND, LICENSE NO. 34479, EXPIRATION DATE: 06/21/2026.



07/23/2024

DATE	REVISIONS	ELECTION DISTRICT 8	BALTIMORE COUNTY, MARYLAND	COUNCILMANIC DISTRICT 2	JOB NO.:
					14746X08
					SCALE: N/A
					DATE: 07/25/2024
					DRAWN BY: AA
					DESIGN BY: AA
					REVIEW BY: JTS
					SHEET: 10 OF 38

Baltimore County Soil Conservation District
APPROVED FOR SEDIMENT CONTROL
Jeffrey P. West 8-5-24
Date

GRADING PERMIT # REN24-000089
SWM PERMIT # REN24-000090
LOD = 620,000 SF (14.23 AC.)
PAI#: VIII-791

ESC 10 OF 11

C-10



MORRIS & RITCHIE ASSOCIATES, INC.

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BECKER PROPERTY

PEACHWOOD LANE

EROSION AND SEDIMENT CONTROL
NOTES AND SEQUENCE OF CONSTRUCTION

