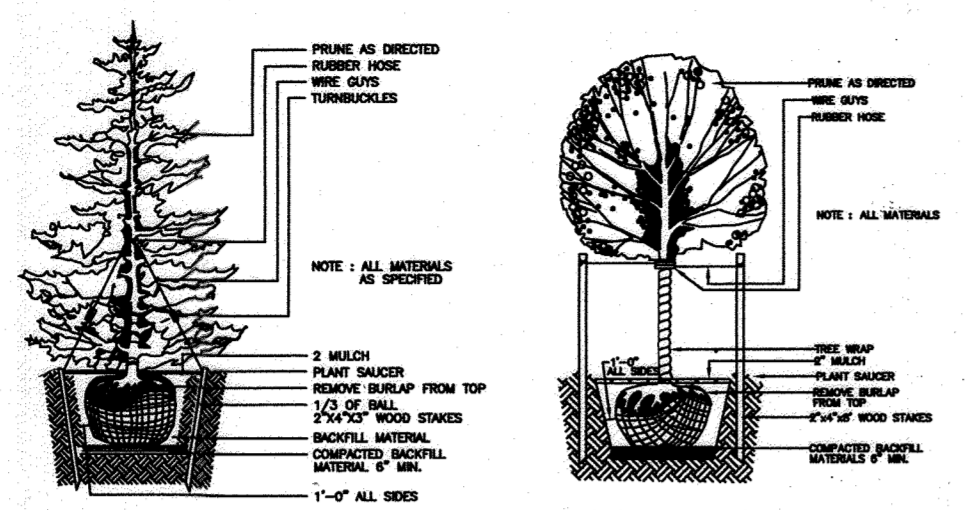


SHEET NO.	TITLE
1	SUPPLEMENTAL, GRADING AND SOILS MAP
2	SWM PLAN AND DETAILS
2	SEDIMENT CONTROL NOTES AND DETAILS

SYMBOL	RATING	NAME	K FACTOR	MAP #	COMMENTS
GhB	(B)	GLENELG URBAN LOAM, 6-8% SLOPES.	.37	20	
GhC	(C)	GLENVILLE-BAILE SILT LOAMS, 0-8% SLOPES.	.43	20	
MaC	(B)	MANOR LOAM, 8-15% SLOPES.	.32	20	

KEY	SPECIES	SIZE	CRZ	COMMENTS
ST A	RED MAPLE	34.5	51.75	FAIR HEAVY VINE COVER
ST B	NORWAY MAPLE	30.5	45.75	NOT NATIVE
ST C	SIVER MAPLE	34.0	51.0	GOOD CONDITION



FOREST CONSERVATION DATA

NET TRACT AREA:
 A. Total tract area: 3.6
 B. Area within 100 year floodplain: 0.0
 C. Area to remain in agricultural production: 0.0
 D. Net tract area: 3.6

LAND USE CATEGORY: (from table 3.2.1, page 40, Manual)
 Input the number "1" under the appropriate land use zoning, and limit to only one entry.

ARA MDR IDA HDR MPY CIA
 0 0 0 1 0 0

E. Afforestation Threshold: 15% x D = 0.5
 F. Conservation Threshold: 20% x D = 0.7

EXISTING FOREST COVER:
 G. Existing forest cover (excluding floodplain): 0.0
 H. Area of forest above afforestation threshold: 0.0
 I. Area of forest above conservation threshold: 0.0

BREAK EVEN POINT:
 J. Forest retention above threshold with no mitigation: 0.0
 K. Clearing permitted without mitigation: 0.0

PROPOSED FOREST CLEARING:
 L. Total area of forest to be cleared: 0.0
 M. Total area of forest to be retained: 0.0

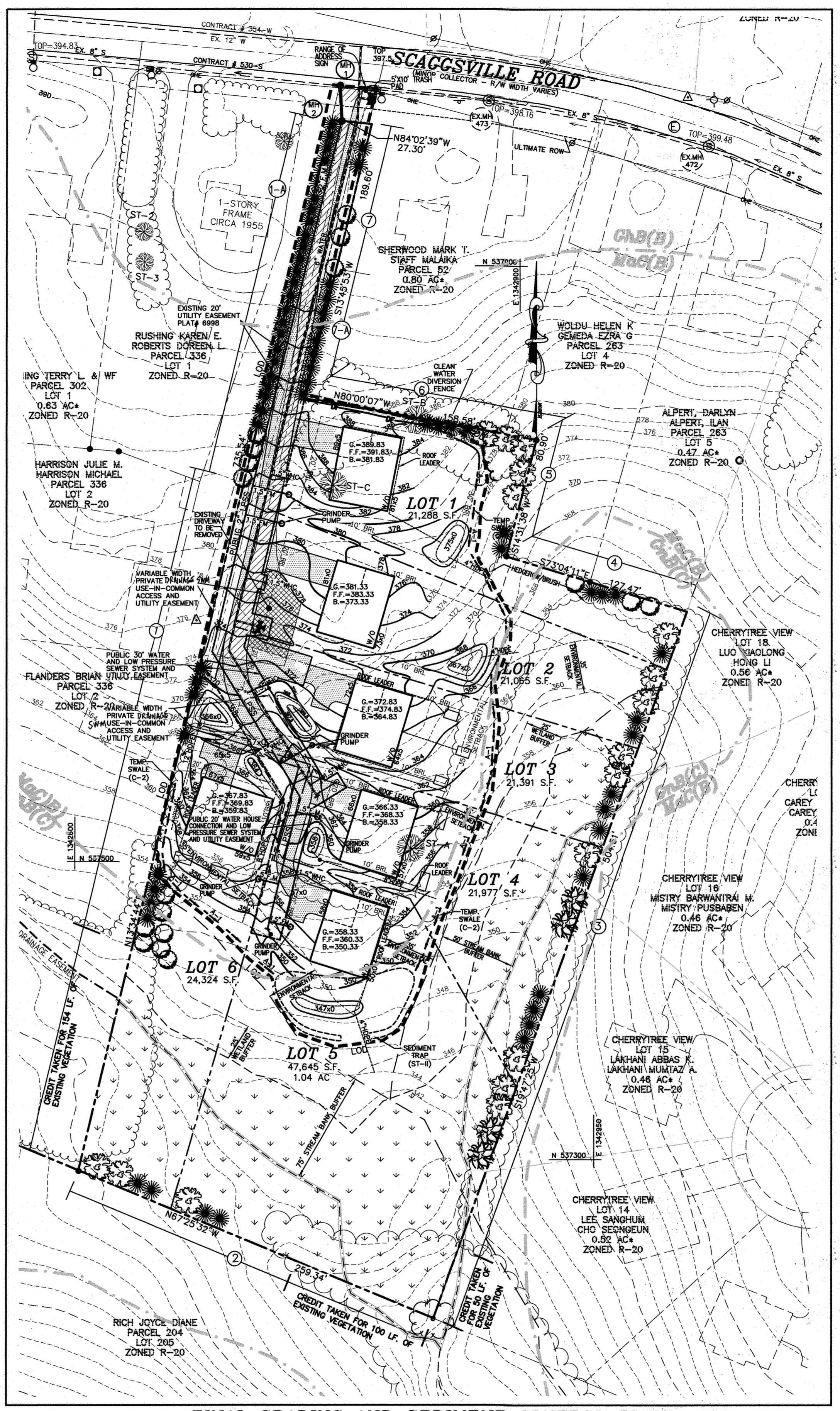
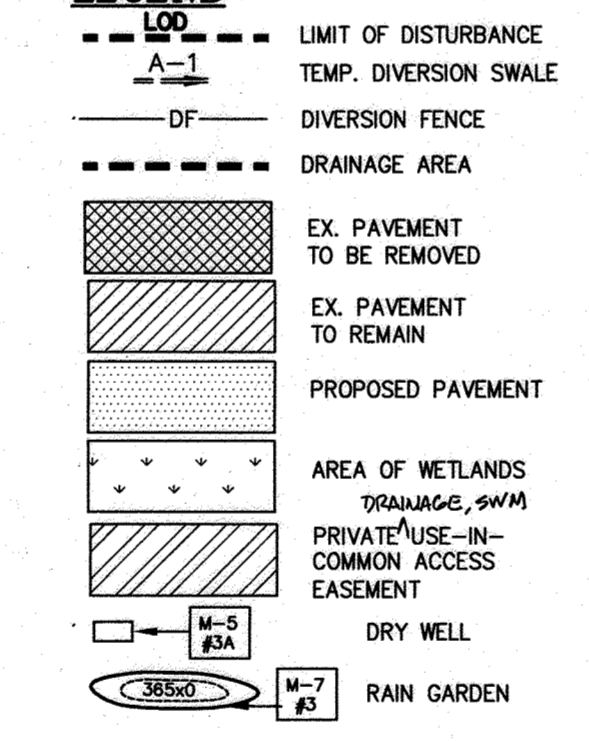
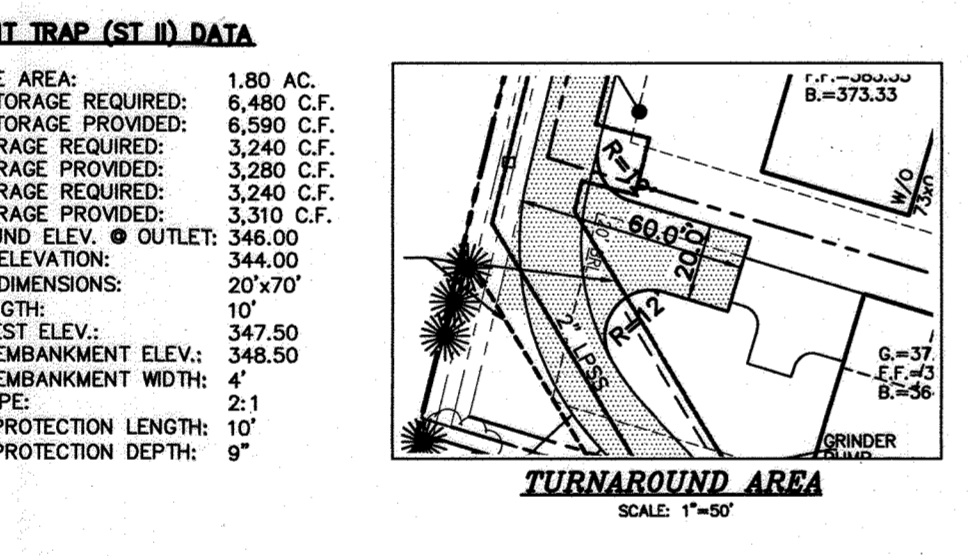
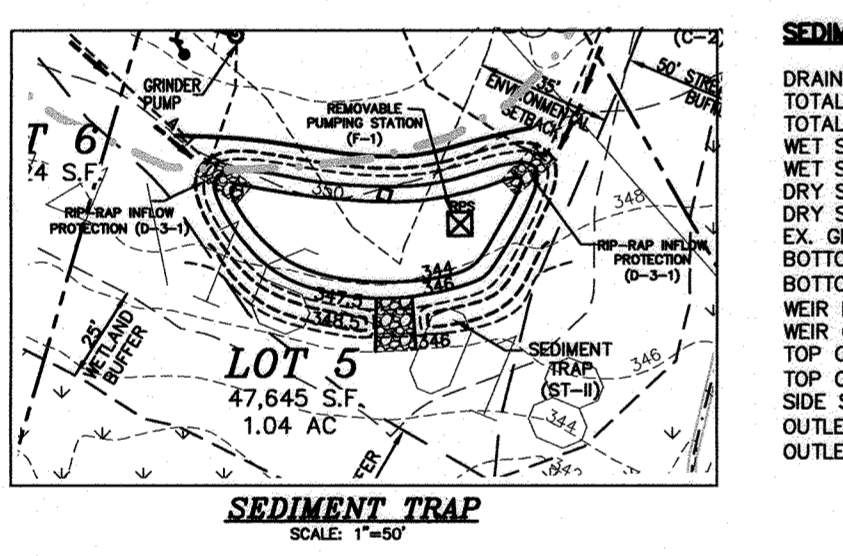
PLANTING REQUIREMENTS:
 N. Reforestation for clearing above conservation threshold: 0.0
 P. Reforestation for clearing below conservation threshold: 0.0
 Q. Credit for retention above conservation threshold: 0.0
 R. Total reforestation required: 0.0
 S. Total afforestation required: 0.5
 T. Total reforestation and afforestation required: 0.5

PERIMETER LANDSCAPE PLANTING SCHEDULE

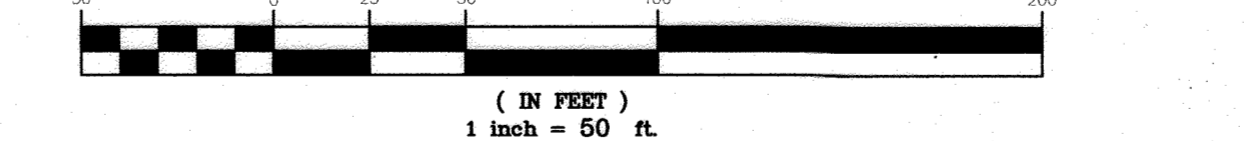
QUANTITY	SYMBOL	BOTANICAL NAME	COMMON NAME	SIZE
17	○	PRUNUS SARGENTI	SARGENT CHERRY	2 1/2" - 3" CAL.
17	○	ACER RUBRUM (AR)	RED MAPLE	2 1/2" - 3" CAL.
4	○	ACER RUBRUM (AR)	RED MAPLE	3" CAL. MINIMUM
68	○	THUJA OCCIDENTALIS 'ELEGANTISSIMA'	ELEGANTISSIMA ARBORVITAE	2" - 2 1/2" HGT.
TOTAL				
38			SHADE TREES, 68	EVERGREENS

SCHEDULE A : PERIMETER LANDSCAPE EDGE

CATEGORY	ADJACENT TO PERIMETER PROPERTIES	TOTAL
LANDSCAPE TYPE	D (PERIMETER 1-A) 250.0 LF E (PERIMETER 1-B) 485.54 LF F (PERIMETER 2) 250.34 LF G (PERIMETER 3) 504.51 LF H (PERIMETER 4) 127.47 LF I (PERIMETER 5) 80.90 LF J (PERIMETER 6) 158.58 LF K (PERIMETER 7-A) 90 LF L (PERIMETER 7) 99.6 LF	
CREDIT FOR EXISTING VEGETATION (YES, NO, LINEAR FEET)	NO YES, 154 LF OF EXISTING TREES YES, 100 LF OF EXISTING TREES YES, 50 LF OF EXISTING TREES NO NO NO NO NO	
CREDIT FOR WALL, FENCE, OR BERM (YES, NO, LINEAR FEET)	NO NO NO NO NO NO NO NO	
NUMBER OF PLANTS REQUIRED	4 SHADE TREES 4 EVERGREEN TREES 0 SHRUBS 7 SHADE TREES 4 EVERGREEN TREES 0 SHRUBS 3 SHADE TREES 11 EVERGREEN TREES 0 SHRUBS 9 SHADE TREES 11 EVERGREEN TREES 0 SHRUBS 3 SHADE TREES 11 EVERGREEN TREES 0 SHRUBS 2 SHADE TREES 2 EVERGREEN TREES 0 SHRUBS 3 SHADE TREES 9 EVERGREEN TREES 0 SHRUBS 1 SHADE TREE 9 EVERGREEN TREES 0 SHRUBS 2 SHADE TREES 2 EVERGREEN TREES 0 SHRUBS 34 SHADE TREES 64 EVERGREEN TREES 0 SHRUBS	
NUMBER OF PLANTS PROVIDED	4 SHADE TREES 25 EVERGREEN TREES 0 SUBSTITUTION TREES 0 SHRUBS (101 SUBSTITUTION) 7 SHADE TREES 8 EVERGREEN TREES 0 SUBSTITUTION TREES 0 SHRUBS 3 SHADE TREES 4 EVERGREEN TREES 0 SUBSTITUTION TREES 0 SHRUBS 13 SHADE TREES 11 EVERGREEN TREES 0 SUBSTITUTION TREES 0 SHRUBS 3 SHADE TREES 3 SUBSTITUTION TREES 0 SHRUBS 2 SHADE TREES 2 EVERGREEN TREES 0 SUBSTITUTION TREES 0 SHRUBS 1 SHADE TREE 9 EVERGREEN TREES 0 SUBSTITUTION TREES 0 SHRUBS 38 SHADE TREES 68 EVERGREEN TREES 0 SUBSTITUTION TREES 0 SHRUBS	

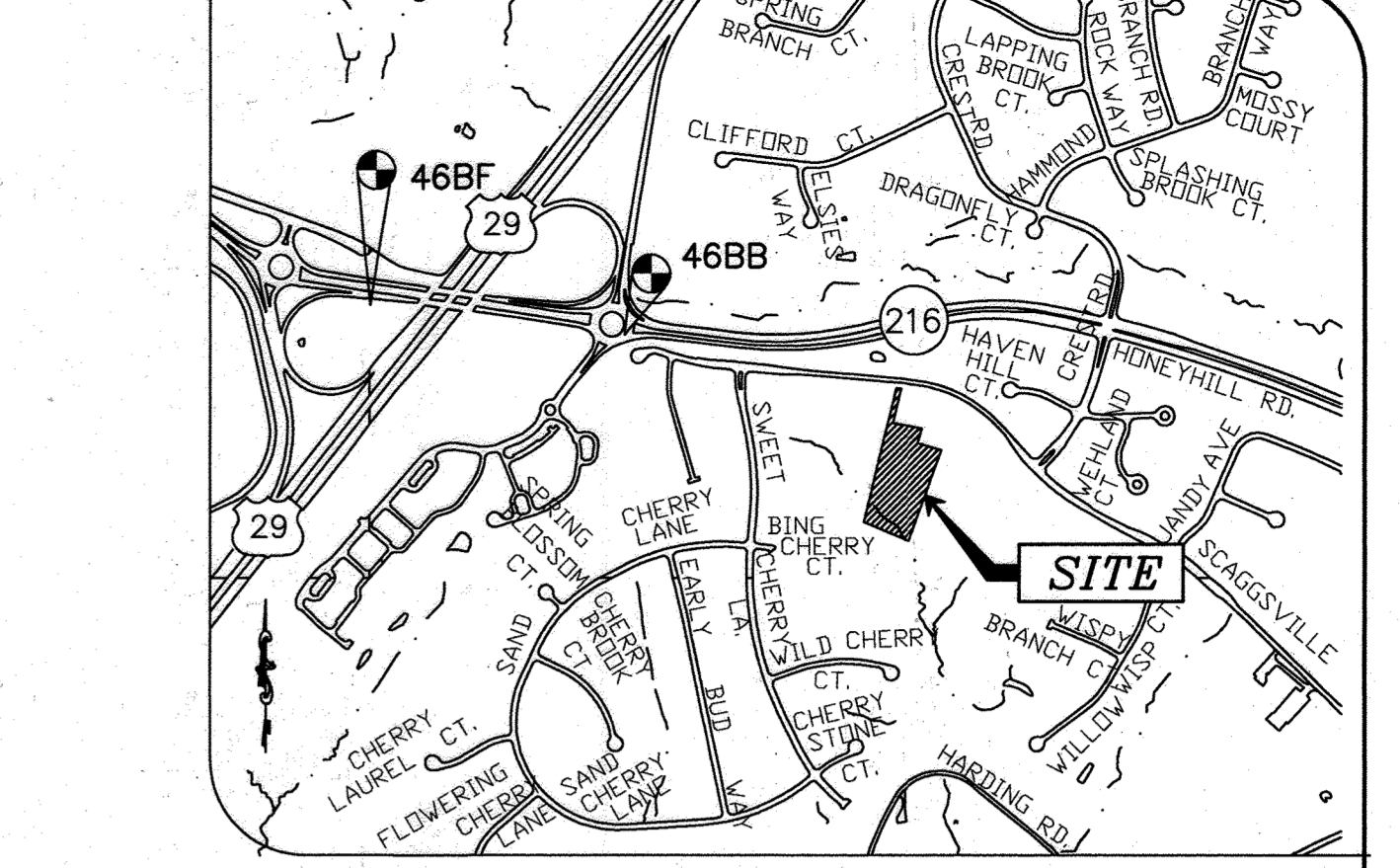


FINAL GRADING AND SEDIMENT CONTROL PLAN



32. THIS PLAN IS SUBJECT TO WP-19-038, SEEKING AN ALTERNATIVE COMPLIANCE TO SECTIONS 16.1205(a)(7) WHICH STATES THAT STATE CHAMPION TREES, TREES 75% OF THE DIAMETER OF STATE CHAMPION TREES AND TREES 30" IN DIAMETER OR LARGER SHALL BE LEFT IN AN UNDISTURBED CONDITION DURING CONSTRUCTION. THIS ALTERNATIVE COMPLIANCE WAS APPROVED ON NOVEMBER 28, 2018, SUBJECT TO THE FOLLOWING CONDITIONS:

1. THE ALTERNATIVE COMPLIANCE PETITION NUMBER (WP-19-038) AND ITS CONDITIONS OF APPROVAL MUST BE ADDED TO ALL SUBDIVISION PLANS AND FINAL PLAT, F-18-079.
2. THE DEVELOPER SHALL PLANT FOUR (4) 3" MINIMUM CALIBER NATIVE SHADE TREES IN ADDITION TO THE REQUIRED PERIMETER LANDSCAPING TO MITIGATE THE REMOVAL OF THE ADDITIONAL TREES ON THE FINAL PLAN. THESE TREES WILL BE BONDED WITH THE DEVELOPER'S AGREEMENT UNDER THE FINAL SUBDIVISION PLAN.
3. THE ALTERNATIVE COMPLIANCE APPROVAL APPLIES ONLY TO THE 2 SPECIMEN TREES TO BE REMOVED AS SHOWN ON THE ALTERNATIVE COMPLIANCE EXHIBIT. THE REMOVAL OF ANY OTHER SPECIMEN TREES ON THE PROPERTY IS NOT PERMITTED UNLESS IT CAN BE SUFFICIENTLY DEMONSTRATED BY THE APPLICANT TO BE JUSTIFIED.



VICINITY MAP

SCALE: 1"=1,000'
 ADC MAP-39, GRID-C3

GENERAL NOTES:

1. SUBJECT PROPERTY ZONED "R-20" PER THE OCTOBER 6, 2013 COMPREHENSIVE ZONING PLAN.
2. ALL ASPECTS OF THE PROJECT ARE IN CONFORMANCE WITH THE LATEST HOWARD COUNTY STANDARDS.
3. PROJECT BACKGROUND:
 ADDRESS: 10965 SCAGGSVILLE ROAD LAUREL, MD 20723
 LOCATION TAX MAP #: 46 PARCEL: 263 GRID: 5 LOTS: 6
 ELECTION DISTRICT: 6TH
 ZONING: R-20
 DPZ FILE NUMBERS: ECP-18-004, WP-19-038
4. AREA TABULATION:
 A. TOTAL TRACT AREA: 3.62 AC. ±
 B. NUMBER OF PROPOSED BUILDABLE LOTS: 6
 C. NUMBER OF OPEN SPACE LOTS: 0
 D. AREA OF THE ROAD DEDICATION: 0 AC. ±
 E. AREA OF BUILDABLE LOTS: 3.62 AC. ±
 F. TYPE OF PROPOSED UNIT: SFD
 G. NUMBER OF PARKING SPACES REQUIRED: 2.5 SPACES PER UNIT
 H. NUMBER OF PARKING SPACES PROVIDED: 4 SPACES (2 IN GARAGE+2 DRIVEWAY) PER UNIT.
5. EXISTING ON-SITE TOPOGRAPHY SHOWN HEREON IS BASED ON A FIELD RUN SURVEY WITH MAXIMUM TWO FOOT CONTOUR INTERVALS CONDUCTED BY MILDBENDER, BOENDER & ASSOCIATES ON OR ABOUT AUGUST 2017.
6. COORDINATES BASED ON NAD '83 MARYLAND COORDINATE SYSTEM AS PROJECTED BY HOWARD COUNTY GEODETIC CONTROL STATIONS NO. 46B AND 46BF.
 STA. No. 46BB N 538,306.5015 E 1,341,329.156 ELEV. 422.637
 STA. No. 46BF N 538,448.152 E 1,340,010.492 ELEV. 446.607
7. THE PROPOSED SUBDIVISION WILL CONSIST OF SINGLE FAMILY DETACHED DWELLINGS.
8. STEEP SLOPES GREATER THAN 25% AND OVER 20,000 SQ. FT. IN AREA DO NOT EXIST ON SITE.
9. DRIVEWAYS SHALL BE PROVIDED PRIOR TO RESIDENTIAL OCCUPANCY TO ENSURE SAFE ACCESS FOR FIRE AND EMERGENCY VEHICLES PER THE FOLLOWING MINIMUM REQUIREMENTS:
 A) WIDTH - 12 FEET (16 FEET SERVING MORE THAN ONE RESIDENCE).
 B) SURFACE - 6 INCHES OF COMPACTED CRUSHER RUN BASE WITH TAR AND CHIP COATING (1-1/2").
 C) GEOMETRY - MAX. 15% GRADE, MAX. 10% GRADE CHANGE AND MIN. OF 45 FOOT TURNING RADIUS.
 D) STRUCTURES (CULVERTS/BOXES) CAPABLE OF SUPPORTING 25 GROSS TONS (1255 LBS).
 E) DRAINAGE ELEMENTS - CAPABLE OF SAFELY PASSING 100 YEAR FLOOD PLAIN WITH NO MORE THAN 1 FOOT OF DEPTH OVER DRIVEWAY SURFACE.
 F) STRUCTURE CLEARANCES - MINIMUM 12 FEET.
 G) MAINTENANCE - SUFFICIENT TO ENSURE ALL WEATHER USE.
10. FOREST CONSERVATION OBLIGATIONS IN ACCORDANCE WITH SECTION 16.1200 OF THE HOWARD COUNTY CODE AND FOREST CONSERVATION ACT FOR THIS SUBDIVISION WILL BE FILLED BY A PAYMENT OF FEE-IN-LIEU FOR 0.50 ACRES IN THE AMOUNT OF \$ 16,350.00 TO BE POSTED WITH THIS PLAN.
11. LANDSCAPING FOR THIS SUBDIVISION IS PROVIDED IN ACCORDANCE WITH SECTION 16.124 OF THE HOWARD COUNTY CODE AND THE LANDSCAPE MANUAL. SURETY FOR THE REQUIRED 38 SHADE, 68 EVERGREEN TREES IN THE AMOUNT OF \$21,600 WILL BE PROVIDED WITH THE DEVELOPER'S AGREEMENT.
12. THE OWNER, TENANT, AND/OR THEIR AGENTS SHALL BE RESPONSIBLE FOR MAINTENANCE OF THE REQUIRED LANDSCAPING, INCLUDING BOTH PLANT MATERIALS AND BERMS, FENCES, AND WALLS. ALL PLANT MATERIALS SHALL BE MAINTAINED IN GOOD GROWING CONDITION, AND WHEN NECESSARY, REPLACED WITH NEW MATERIALS TO ENSURE CONTINUED COMPLIANCE WITH APPLICABLE REGULATIONS. ALL OTHER REQUIRED LANDSCAPING SHALL BE PERMANENTLY MAINTAINED IN GOOD CONDITION, AND WHEN NECESSARY, REPAIRED OR REPLACED.
13. AT THE TIME OF INSTALLMENT, ALL SHRUBS AND OTHER PLANTINGS HEREWIT LISTED AND APPROVED FOR THIS SITE SHALL BE OF THE PROPER HEIGHT REQUIREMENTS IN ACCORDANCE WITH THE HOWARD COUNTY LANDSCAPE MANUAL. IN ADDITION, NO SUBSTITUTION OR RELOCATION OF REQUIRED PLANTINGS MAY BE MADE WITHOUT PRIOR REVIEW AND APPROVAL FROM THE DEPARTMENT OF PLANNING AND ZONING. ANY DEVIATION FROM THIS APPROVED LANDSCAPE PLAN MAY RESULT IN DENIAL OR DELAY IN THE RELEASE OF LANDSCAPE SURETY UNTIL SUCH TIME AS ALL REQUIRED MATERIALS ARE PLANTED AND/OR REVISIONS ARE MADE TO APPLICABLE PLANS AND CERTIFICATES.
14. THERE ARE NO EXISTING DWELLING/STRUCTURE(S) LOCATED ON-SITE.
15. FOR FLAG OR PIPESTEM LOTS, REFUSE COLLECTION, SNOW REMOVAL AND ROAD MAINTENANCE ARE PROVIDED TO THE JUNCTION OF THE FLAG OR PIPESTEM LOT AND ROAD RIGHT-OF-WAY LINE AND NOT TO THE PIPESTEM LOT DRIVEWAY.
16. STORMWATER MANAGEMENT REQUIREMENTS WILL BE SATISFIED VIA RAINGARDENS AND DRY WELLS FACILITIES AND WILL BE PRIVATELY OWNED AND MAINTAINED.
17. THE OPEN SPACE REQUIREMENT FOR THIS SUBDIVISION IS MET BY A PAYMENT OF FEE-IN-LIEU IN THE AMOUNT OF \$7,500.00.
18. THIS SUBDIVISION IS IN THE METROPOLITAN DISTRICT. WATER AND SEWER ARE PUBLIC (CONTRACT # 354-W AND CONTRACT # 530-S).
19. THIS DEVELOPMENT IS DESIGNED TO BE IN ACCORDANCE WITH SECTION 16.127 RESIDENTIAL INFILL DEVELOPMENT OF SUBDIVISION AND LAND DEVELOPMENT REGULATIONS. THE DEVELOPER OF THIS PROJECT SHALL CREATE COMPATIBILITY WITH THE EXISTING NEIGHBORHOOD THROUGH THE USE OF ENHANCED PERIMETER LANDSCAPING, BERMS, FENCES, SIMILAR HOUSE TYPES AND THE DIRECTIONAL ORIENTATION OF THE PROPOSED HOUSES.
20. WETLANDS AND ITS BUFFER EXIST ON SITE AS CERTIFIED IN THE WETLAND AND FSD LETTER PREPARED BY ECO-SCIENCE PROFESSIONALS, INC. IN FEBRUARY 25, 2018.
21. THIS PLAN IS SUBJECT TO THE AMENDED FIFTH EDITION OF THE SUBDIVISION AND LAND DEVELOPMENT REGULATIONS (COUNCIL BILL 45-2003). THESE LOTS OR CONSTRUCTION OF THESE LOTS MUST COMPLY WITH SETBACK AND BUFFER REGULATIONS IN EFFECT AT THE TIME OF SUBMISSION OF THE SITE DEVELOPMENT PLAN, WAIVER PETITION OR BUILDING/GRADING PERMIT.
22. ALL LOTS/RESIDENTIAL UNITS IN THIS SUBDIVISION ARE SUBJECT TO THE MIHU FEE-IN-LIEU REQUIREMENT THAT IS TO BE CALCULATED AND PAID TO THE DEPARTMENT OF INSPECTIONS, LICENSES AND PERMITS AT THE TIME OF BUILDING PERMIT ISSUANCE BY THE PERMIT APPLICANT.
23. ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE LATEST STANDARDS AND SPECIFICATIONS OF HOWARD COUNTY PLUS MARYLAND STATE HIGHWAY ADMINISTRATION STANDARDS AND SPECIFICATIONS IF APPLICABLE.
24. THE CONTRACTOR SHALL NOTIFY THE DEPARTMENT OF PUBLIC WORKS/BUREAU OF ENGINEERING/CONSTRUCTION INSPECTION DIVISION AT (410)313-1880 AT LEAST FIVE (5) WORKING DAYS PRIOR TO THE START OF WORK.
25. THE CONTRACTOR SHALL NOTIFY "MISS UTILITY" AT 1-800-257-7777 AT LEAST 48 HOURS PRIOR TO ANY EXCAVATION WORK BEING DONE.
26. PER COUNCIL BILL CB1-2018 NO TRAFFIC STUDY IS REQUIRED FOR THIS PROJECT. NO INTERSECTIONS OF MAJOR COLLECTOR OR HIGHER CLASSIFICATION ROAD WITH A MAJOR COLLECTOR OR A HIGHER CLASSIFICATION ROAD IS WITH IN 1.5 MILES IN ALL DIRECTIONS FROM THE PROJECT ENTRANCE.
27. NO 100 YEAR FLOODPLAIN EXISTS ON THIS SITE. DRAINAGE AREA IS LESS THAN 30 ACRES.
28. ALL SIGN POSTS USED FOR TRAFFIC CONTROL SIGNS INSTALLED IN THE COUNTY RIGHT-OF-WAY SHALL BE MOUNTED ON A 2" GALVANIZED STEEL, PERFORATED, SQUARE TUBE POST (14 GAUGE) INSERTED INTO A 2-1/2" GALVANIZED STEEL, PERFORATED, SQUARE TUBE SLEEVE (12 GAUGE)-3" LONG. A GALVANIZED STEEL POLE CAP SHALL BE MOUNTED ON TOP OF EACH POST.
29. EXISTING UTILITIES ARE BASED ON AS-BUILT PLANS FOR WATER AND SEWER CONTRACTS AND ARE VERIFIED BY FIELD RUN SURVEY CONDUCTED BY MILDBENDER, BOENDER & ASSOC., INC.
30. A PRIVATE RANGE OF ADDRESS SIGN ASSEMBLY SHALL BE FABRICATED AND INSTALLED BY HOWARD COUNTY BUREAU OF HIGHWAYS AT THE DEVELOPERS/OWNERS EXPENSE. CONTACT HOWARD COUNTY TRAFFIC DIVISION AT 410-313-2430 FOR DETAILS AND COST ESTIMATES.
31. DISTURBANCE TO THE 35' ENVIRONMENTAL BUFFER IS CONSIDERED ESSENTIAL FOR THE STORMWATER MANAGEMENT COMPLIANCE BASED ON DEPARTMENT OF ENGINEERING DIVISION DECISION.

ENGINEER'S CERTIFICATION

I HEREBY CERTIFY THAT THIS PLAN HAS BEEN DESIGNED IN ACCORDANCE WITH CURRENT MARYLAND EROSION AND SEDIMENT CONTROL LAWS, REGULATIONS, AND STANDARDS, THAT IT REPRESENTS A PRACTICAL AND WORKABLE PLAN BASED ON MY PERSONAL KNOWLEDGE OF THE SITE, AND THAT IT WAS PREPARED IN ACCORDANCE WITH THE REQUIREMENTS OF THE HOWARD SOIL CONSERVATION DISTRICT.

DESIGNER'S SIGNATURE: *Samir Alomer* DATE: 9/1/2023
 PRINTED NAME: Samir Alomer DATE: 26809
 MD REGISTRATION NO. (P.E.): MD0000000000

OWNER/DEVELOPER CERTIFICATION

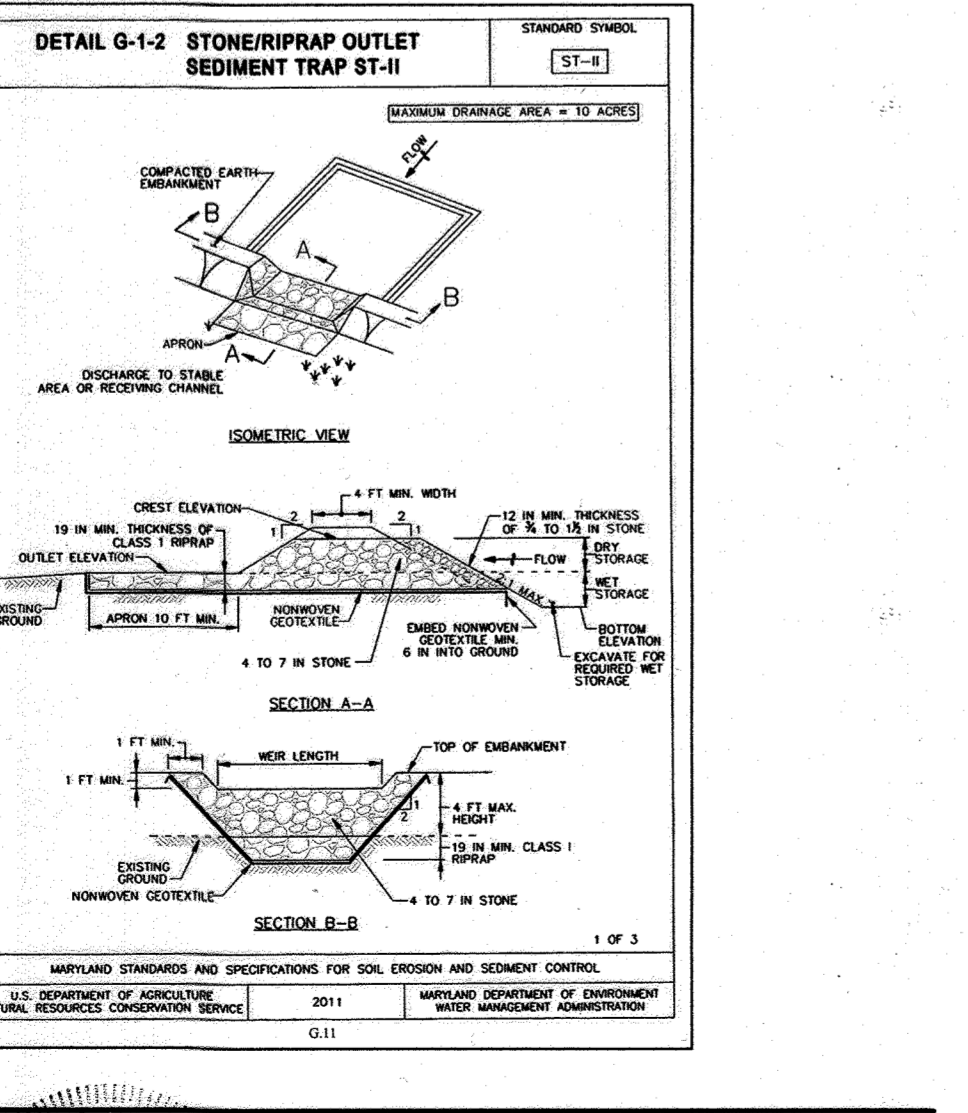
I/WE HEREBY CERTIFY THAT ANY CLEARING, GRADING, CONSTRUCTION, OR DEVELOPMENT WILL BE DONE PURSUANT TO THIS APPROVED EROSION AND SEDIMENT CONTROL PLAN, INCLUDING INSPECTING AND MAINTAINING CONTROLS, AND THAT THE RESPONSIBLE PERSONNEL INVOLVED IN THE CONSTRUCTION PROJECT WILL HAVE A CERTIFICATE OF TRAINING AT A MARYLAND DEPARTMENT OF THE ENVIRONMENT (MDE) APPROVED TRAINING PROGRAM FOR THE CONTROL ON EROSION AND SEDIMENT PRIOR TO BEGINNING THE PROJECT. I CERTIFY RIGHT-OF-ENTRY FOR PERIODIC ON-SITE EVALUATION BY HOWARD COUNTY, THE HOWARD SOIL CONSERVATION DISTRICT AND/OR MDE.

OWNER/DEVELOPER'S SIGNATURE: *Rafat LLC* DATE: 9/11/23
 PRINTED NAME & TITLE: RAFAAT LLC MEMBER

HOWARD SCD SIGNATURE BLOCK

THIS PLAN IS APPROVED FOR SOIL EROSION AND SEDIMENT CONTROL BY THE HOWARD SOIL CONSERVATION DISTRICT.

Alexandra Brantley DATE: 09/13/23
 HOWARD SOIL CONSERVATION DISTRICT



APPROVED: DEPARTMENT OF PLANNING AND ZONING

Chad Phelan DATE: 9/22/23
 CHIEF, DEVELOPMENT ENGINEERING DIVISION

Chad Phelan DATE: 10/2/23
 CHIEF, DIVISION OF LAND DEVELOPMENT

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. 26859, EXP. DATE 08/08/25

OWNER
 RAFAAT LLC
 5550 STERRETT PLACE, SUITE 103
 COLUMBIA, MD, 21044
 443-538-9547

DATE: 08/31/2023
 SAMIR A. ALOMER P.E.

MILDENBERG, BOENDER & ASSOC., INC.
 Engineers Planners Surveyors
 8318 FOREST STREET SUITE 300, ELLICOTT CITY, MD 21043
 (410) 997-0286 TEL. (410) 997-0288 FAX.

REVISED ISLA'S WOODS LOTS 1-6 TAX MAP 46 GRID 5 PARCEL 263 LOT 6 6TH ELECTION DISTRICT HOWARD COUNTY, MARYLAND SUPPLEMENTAL AND SOILS MAP

1 OF 3
 F-18-079

SWM SUMMARY TABLE

LOT	ESD REQUIRED	SWM PRACTICE	ESD PROVIDED
1	403 C.F.	RAIN GARDEN (M-7)	509 C.F.
2	432 C.F.	RAIN GARDEN (M-7)	485 C.F.
3	494 C.F.	RAIN GARDEN (M-7)	535 C.F.
4	446 C.F.	RAIN GARDEN (M-7), DRY WELLS (M-5)	470 C.F.
5	441 C.F.	RAIN GARDEN (M-7)	480 C.F.
6	424 C.F.	RAIN GARDEN (M-7), DRY WELLS (M-5)	443 C.F.
P/O UIC DRIVEWAY	189 C.F.	RAIN GARDEN (M-7)	376 C.F.
TOTAL	2,829 C.F.		3,298 C.F.

GEOTECHNICAL ENVIRONMENTAL TESTING CONSULTANTS, INC.
 PO. Box 2071
 Columbia, MD 21045-2071
 Phone: (410) 381-6330
 Fax: (410) 381-1064
 e-mail: rouni254@yahoo.com

September 19, 2017
 Mildenberg, Bomander & Associates, Inc.
 7350-B Grace Drive
 Columbia, Maryland 21044
 Attn: Ms. Maya M. Mildenberg
 Vice President
 Ref: Limited Subsurface Exploration
 Proposed Development
 Isla's Woods; Tax map 46, Parcel 263, Grid 5, Lot 6;
 10965 Scaggsville Road, Laurel, MD 20723
 Howard County, Maryland
 GE&T Project No. G-252

Dear Ms. Mildenberg:
 On September 7th, 2017, GE&T Consultants, Inc. utilized a 7822DT Geoprobe to bore seven (7) soil borings (B-1 through B-7) to depths of 5.0 ft to 13.0 ft below existing site grades at the locations shown on the attached Borings Location Map. The purpose of the study was to evaluate the presence/absence of bedrock and local groundwater at the locations shown, within the depths explored. The locations and depths of the borings were determined by others and the borings were staked-out in the field by others.

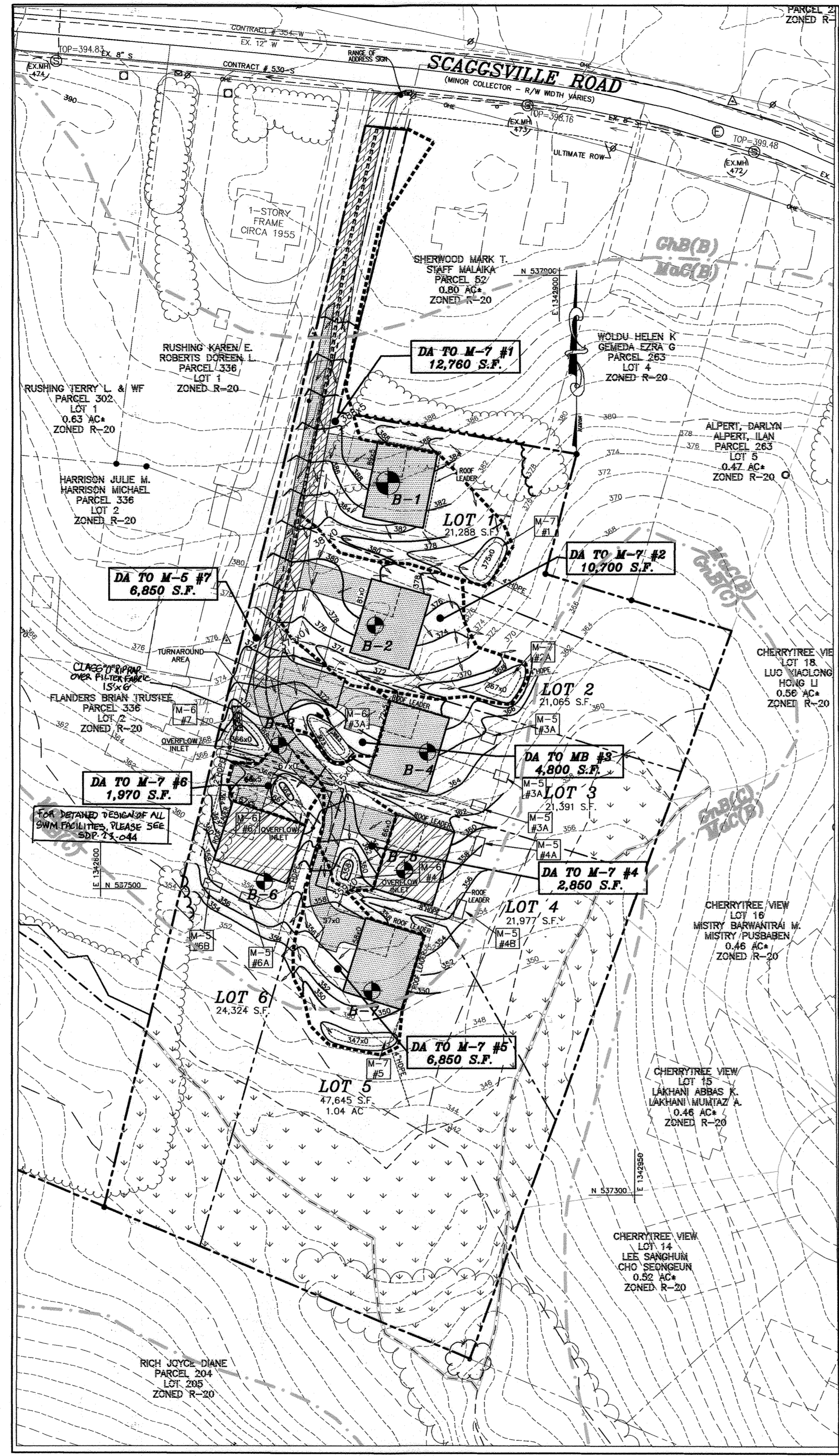
Our field observations are summarized in Table 1 below:

Boring No.	Depth to Groundwater (ft)	Depth to Anger Refusal (ft)	Boring Termination Depth (ft)	Remarks
B-1	N/A	N/A	11.0	
B-2	N/A	N/A	12.0	
B-3	N/A	N/A	10.0	
B-4	N/A	N/A	12.0	
B-5	N/A	N/A	13.0	
B-6	N/A	N/A	9.0	
B-7	8.0	N/A	11.0	

Note: All depths are below existing site grades.
 It should be noted that the actual level of groundwater and the amount and level of perched water should be anticipated to fluctuate through the year, depending on variations in precipitation, surface run-off, infiltration, site topography, drainage, and other factors not evident at the time of our exploration. GE&T can not be responsible for changes in groundwater conditions at the site due to seasonal variations and changes caused by other factors such as grading operations at the site.

GE&T appreciates the opportunity to provide this geotechnical engineering service to you. Should you have any questions regarding this letter report, or require additional services, please feel free to contact our office.

Sincerely,
 Mounir Abouzaid, PE
 GE&T Consultants, Inc.



FINAL SWM PLAN
 SCALE: 1"=50'
 GRAPHIC SCALE
 (IN FEET)
 1 inch = 50 ft.

LEGEND

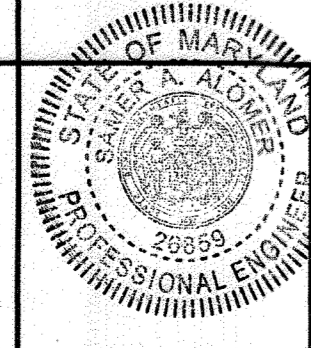
- AREA TREATED BY DRY WELLS (M-5)
- AREA TREATED BY RAIN GARDENS (M-7)
- AREA OF WETLANDS
- EX. PAVEMENT TO REMAIN
- EX. PAVEMENT TO BE REMOVED
- DRAINAGE AREA
- DRY WELL
- RAIN GARDEN
- SOIL BORING LOCATION

ENGINEER'S CERTIFICATION
 I HEREBY CERTIFY THAT THIS PLAN HAS BEEN DESIGNED IN ACCORDANCE WITH CURRENT MARYLAND EROSION AND SEDIMENT CONTROL LAWS, REGULATIONS, AND STANDARDS, THAT IT REPRESENTS A PRACTICAL AND WORKABLE PLAN BASED ON MY PERSONAL KNOWLEDGE OF THE SITE, AND THAT IT WAS PREPARED IN ACCORDANCE WITH THE REQUIREMENTS OF THE HOWARD SOIL CONSERVATION DISTRICT.
 DATE: 10.3.2023

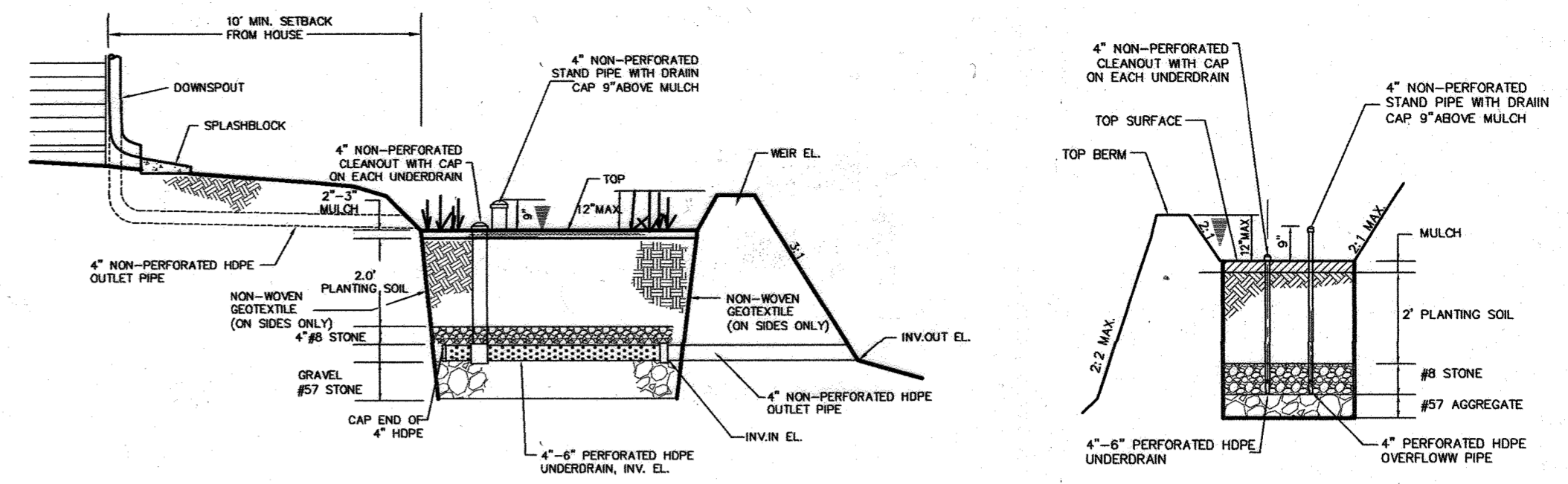
OWNER/DEVELOPER CERTIFICATION
 I/WE HEREBY CERTIFY THAT ANY CLEARING, GRADING, CONSTRUCTION, OR DEVELOPMENT WILL BE DONE PURSUANT TO THIS APPROVED EROSION AND SEDIMENT CONTROL PLAN, INCLUDING INSPECTING AND MAINTAINING CONTROLS, AND THAT THE RESPONSIBLE PERSONNEL INVOLVED IN THE CONSTRUCTION PROJECT WILL HAVE A CERTIFICATE OF TRAINING AT A MARYLAND DEPARTMENT OF THE ENVIRONMENT (MDE) APPROVED TRAINING PROGRAM FOR THE CONTROL OF EROSION AND SEDIMENT PRIOR TO BEGINNING THE PROJECT. I CERTIFY RIGHT OF ENTRY FOR PERIODIC ON-SITE EVALUATION BY HOWARD COUNTY, THE HOWARD SOIL CONSERVATION DISTRICT AND/OR MDE.
 DATE: 10/12/23

HOWARD SCD SIGNATURE BLOCK
 THIS PLAN IS APPROVED FOR SOIL EROSION AND SEDIMENT CONTROL BY THE HOWARD SOIL CONSERVATION DISTRICT.
 DATE: 10/19/23

APPROVED: DEPARTMENT OF PLANNING AND ZONING
 DATE: 10/26/23
CHEF/DEVELOPMENT ENGINEERING DIVISION
 DATE: 10/14/23
CHEF, DIVISION OF LAND DEVELOPMENT



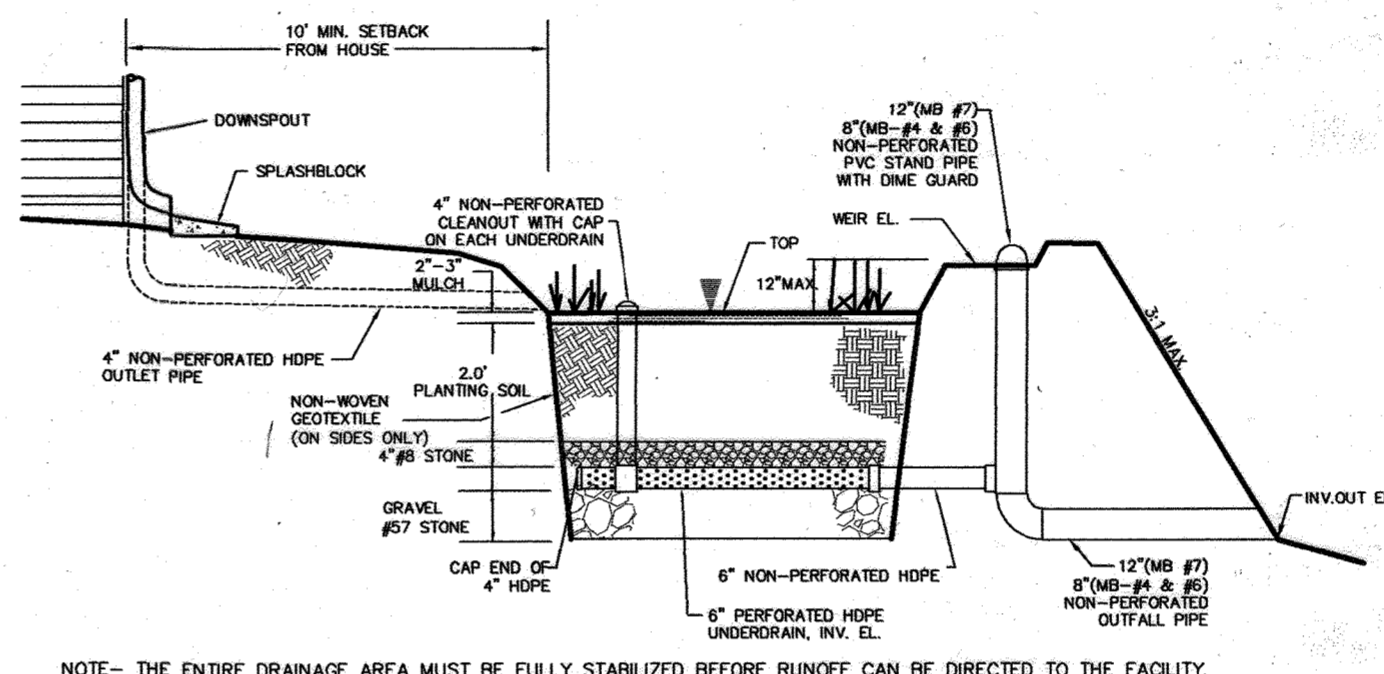
I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND, LICENSE NO. 20659, EXP DATE 08/08/25
 OWNER: RAFAT LLC
 5550 STERRETT PLACE, SUITE 103
 COLUMBIA, MD. 21044
 443-538-9547
 DATE: 09/26/2023



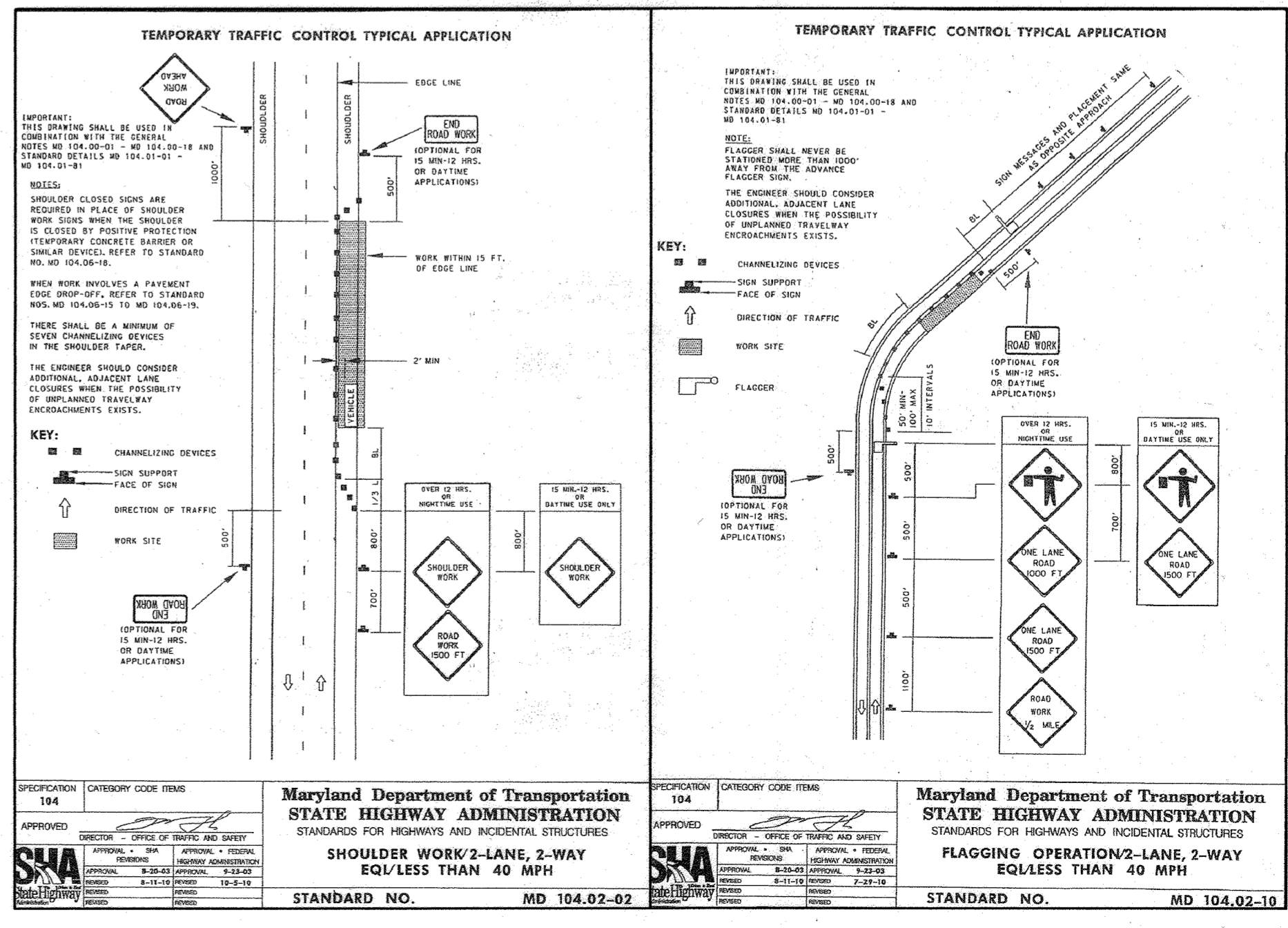
TYPICAL RAIN GARDEN PROFILE
 NOTE - THE ENTIRE DRAINAGE AREA MUST BE FULLY STABILIZED BEFORE RUNOFF CAN BE DIRECTED TO THE FACILITY.
TYP. RAIN GARDEN (M-7) DETAIL
 SCALE: 1"=50'

RAIN GARDEN/BIO-RETENTION SCHEDULE

FACILITY #	TOP EL.	TOP OF BERM	INV. IN	INV. OUT	DEPTH OF GRAVEL BELOW UNDERDRAIN	SIDE SLOPE	AREA AT UNDERDRAIN	UNDERDRAIN SIZE
(M-7) #1	375.00	376.00	372.08	371.50	12"	3:1	270 SF	4"
(M-7) #2	367.00	368.00	364.08	363.50	15"	3:1	220 SF	4"
(M-7) #3	362.00	363.00	359.08	358.5	15"	3:1	250 SF	4"
(M-7) #4	358.00	359.00	354.92	354.00	18"	3:1	200 SF	4"
(M-7) #5	347.00	348.00	344.08	343.50	24"	3:1	200 SF	4"
(M-6) #6	364.00	365.00	360.92	352.00	6"	3:1	90 SF	6"
(M-6) #7	366.00	366.75	362.92	357.00	6"	3:1	144 SF	6"



TYPICAL MICRO-BIORETENTION PROFILE
 NOTE - THE ENTIRE DRAINAGE AREA MUST BE FULLY STABILIZED BEFORE RUNOFF CAN BE DIRECTED TO THE FACILITY.
DRYWELL TYP. DETAIL
 NTS
 DRYWELL SIZE: DEPTH: 5', LENGTH: 12', WIDTH: 6'



APPROVED: Maryland Department of Transportation STATE HIGHWAY ADMINISTRATION
 STANDARD NO. MD 104.02-02
 Maryland Department of Transportation STATE HIGHWAY ADMINISTRATION
 STANDARD NO. MD 104.02-10

OPERATION AND MAINTENANCE SCHEDULE FOR RAIN GARDEN/MICRO-BIORETENTION (M-6) AND (M-7)

ANNUAL MAINTENANCE OF PLANT MATERIAL, MULCH LAYER AND SOIL LAYER IS REQUIRED. MAINTENANCE OF MULCH AND SOIL IS LIMITED TO CORRECTING AREAS OF EROSION OR WASH OUT. ANY MULCH REPLACEMENT SHALL BE DONE IN THE SPRING. PLANT MATERIAL SHALL BE CHECKED FOR DISEASE AND INSECT INFESTATION AND MAINTENANCE WILL ADDRESS DEAD MATERIAL AND PRUNING. ACCEPTABLE REPLACEMENT PLANT MATERIAL IS LIMITED TO THE FOLLOWING: 2000 MARYLAND STORMWATER DESIGN MANUAL VOLUME II, TABLE A.4.1 AND 2.
 SCHEDULE OF PLANT INSPECTION WILL BE TWICE A YEAR IN SPRING AND FALL. THIS INSPECTION WILL INCLUDE REMOVAL OF DEAD AND DISEASED VEGETATION CONSIDERED BROWN TREATMENT, TREATMENT OF ALL DISEASED TREES AND SHRUBS AND REPLACEMENT OF ALL DEFUNCT STAKES AND WIRES.
 MULCH SHALL BE INSPECTED EACH SPRING. REMOVE PREVIOUS MULCH LAYER BEFORE APPLYING NEW LAYER EVERY 2 TO 3 YEARS.
 SOIL EROSION TO BE ADDRESSED ON AN AS NEEDED BASIS, WITH A MINIMUM OF ONCE PER MONTH AND AFTER HEAVY STORM EVENTS.

OPERATION AND MAINTENANCE SCHEDULE FOR PRIVATELY OWNED AND MAINTAINED DRY WELLS (M-5)

- THE OWNER SHALL INSPECT THE MONITORING WELLS AND STRUCTURES ON A QUARTERLY BASIS AND AFTER EVERY HEAVY STORM EVENT.
- THE OWNER SHALL RECORD THE WATER LEVELS AND SEDIMENT BUILD UP IN THE MONITORING WELLS OVER A PERIOD OF SEVERAL DAYS TO ENSURE TRENCH DRAINAGE.
- THE OWNER SHALL MAINTAIN A LOG BOOK TO DETERMINE THE RATE AT WHICH THE FACILITY DRAINS.
- WHEN THE FACILITY BECOMES CLOGGED SO THAT IT DOES NOT DRAIN DOWN WITHIN A SEVENTY-TWO (72) HOUR TIME PERIOD, CORRECTIVE ACTION SHALL BE TAKEN.
- THE MAINTENANCE LOG BOOK SHALL BE AVAILABLE TO HOWARD COUNTY FOR INSPECTION TO ENSURE COMPLIANCE WITH OPERATION AND MAINTENANCE CRITERIA.
- ONCE THE PERFORMANCE CHARACTERISTICS OF THE INFILTRATION FACILITY HAVE BEEN VERIFIED, THE MONITORING SCHEDULE CAN BE REDUCED TO AN ANNUAL BASIS UNLESS THE PERFORMANCE DATA INDICATES THAT A MORE FREQUENT SCHEDULE IS REQUIRED.

date	SEP. 2023	engineering	MM	approval	SA
project	10-018	illustration	MM	scale	1"=50'

date	AUG 2023	description	REVISD SWM ON LOT 3
date		description	REVISED SWM ON LOT 3

REVISED
ISLA'S WOODS
 LOTS 1 - 6
 TAX MAP 46 GRID 5 PARCEL 263, LOT 6
 HOWARD COUNTY, MARYLAND
 6TH ELECTION DISTRICT
SWM PLAN AND DETAILS

MILDENBERG, BOENDER & ASSOC., INC.
 Engineers Planners Surveyors
 8816 FOREST STREET, SUITE 300, ELICOTT CITY MD. 21043
 (410) 997-0296 Tel. (410) 997-0298 Fax.

STANDARD SEDIMENT CONTROL NOTES

- 1. A PRE-CONSTRUCTION MEETING MUST OCCUR WITH THE HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS...
2. PRIOR TO THE START OF EARTH DISTURBANCE...
3. FOLLOWING INITIAL SOIL DISTURBANCE OR RE-DISTURBANCE...
4. ALL DISTURBED AREAS MUST BE STABILIZED WITHIN THE TIME PERIOD SPECIFIED ABOVE...

Table with 2 columns: Item, Value. Includes site analysis details like total area of site (3.62 acres), area to be seeded (0.28 acres), and total cut (300 cu. yds).

- 7. ANY SEDIMENT CONTROL PRACTICE WHICH IS DISTURBED BY GRADING ACTIVITY...
8. ADDITIONAL SEDIMENT CONTROL MUST BE PROVIDED, IF DEEMED NECESSARY...
9. TRENCHES FOR THE CONSTRUCTION OF UTILITIES IS LIMITED TO 30 FEET LENGTHS...

- 10. ANY MAJOR CHANGES OR REVISIONS TO THE PLAN OR SEQUENCE OF CONSTRUCTION...
11. DISTURBANCE SHALL NOT OCCUR OUTSIDE THE L.O.D. A PROJECT IS TO BE SEQUENCED...
12. WASH WATER FROM ANY EQUIPMENT, VEHICLES, WHEELS, PAVEMENT, AND OTHER SOURCES...
13. TPOPSIL SHALL BE STOCKPILED AND PRESERVED ON-SITE FOR REDISTRIBUTION...

(B-4-4) STANDARDS AND SPECIFICATIONS FOR TEMPORARY STABILIZATION

- DEFINITION: TO STABILIZE DISTURBED SOIL WITH VEGETATION FOR UP TO 6 MONTHS.
PURPOSE: TO USE FAST GROWING VEGETATION THAT PROVIDES COVER ON DISTURB SOIL.
CONDITIONS WHERE PRACTICE APPLIES: EXPOSED SOILS WHERE GROUND COVER IS NEEDED FOR A PERIOD OF 6 MONTHS OR LESS...

- 1. SELECT ONE OR MORE OF THE SPECIES OR SEED MIXTURES LISTED IN TABLE B.1...
2. FOR SITES HAVING SOIL TESTS PERFORMED, USE AND SHOW THE RECOMMENDED RATES...
3. WHEN STABILIZATION IS REQUIRED OUTSIDE OF A SEEDING SEASON, APPLY SEED AND MULCH...

STANDARD STABILIZATION NOTE

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 DIKES, SWALES, DITCHES, PERMETER SLOPES, AND ALL SLOPES STEEPER THAN 3 HORIZONTAL TO 1 VERTICAL...

ENGINEER'S CERTIFICATE: I CERTIFY THAT THIS PLAN FOR EROSION AND SEDIMENT CONTROL REPRESENTS A PRACTICAL AND WORKABLE PLAN BASED ON MY PERSONAL KNOWLEDGE OF THE SITE CONDITIONS...

DEVELOPER'S CERTIFICATE: I CERTIFY THAT ALL DEVELOPMENT AND CONSTRUCTION WILL BE DONE ACCORDING TO THIS PLAN, AND THAT ANY RESPONSIBLE PERSONNEL INVOLVED IN THE CONSTRUCTION...

OWNER/DEVELOPER: RAFAT LLC, 7350-B GRACE DRIVE, COLUMBIA, MD 21044, 410-997-0296

PERMANENT SEEDING SUMMARY: TABLE with columns for No., Species, Application Rate, Seeding Dates, Seeding Depth, and Lime Rate.

TEMPORARY SEEDING FOR SITE STABILIZATION: TABLE with columns for Plant Species, Seeding Rate, Seeding Depth, and Recommended Seeding Dates.

TEMPORARY SEEDING FOR SITE STABILIZATION (continued): TABLE with columns for Plant Species, Seeding Rate, Seeding Depth, and Recommended Seeding Dates.

OWNER: 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...

OWNER: RAFAT LLC, 5550 STERRETT PLACE, SUITE 103, COLUMBIA, MD 21044, 410-997-0296

(B-4-2) STANDARDS AND SPECIFICATIONS FOR SOIL PREPARATION, TOPSOILING, AND SOIL AMENDMENTS

- DEFINITION: THE PROCESS OF PREPARING THE SOILS TO SUSTAIN ADEQUATE VEGETATIVE STABILIZATION.
PURPOSE: TO PROVIDE A SUITABLE SOIL MEDIUM FOR VEGETATIVE GROWTH.
CONDITIONS WHERE PRACTICE APPLIES: WHERE VEGETATIVE STABILIZATION IS TO BE ESTABLISHED.
CRITERIA: A. SEEDING: 1. SEED MIXTURES: SELECT ONE OR MORE OF THE SPECIES OR SEED MIXTURES LISTED IN TABLE B.1...

- 2. PERMANENT STABILIZATION: A. SOIL TEST: IS REQUIRED FOR EVERY EARTH DISTURBANCE OF 5 ACRES OR MORE.
B. SOIL PREPARATION: 1. SEEDING PREPARATION CONSISTS OF LOOSENING SOIL TO A DEPTH OF 3 TO 5 INCHES BY MEANS OF SUITABLE AGRICULTURAL OR CONSTRUCTION EQUIPMENT...
C. SOIL AMENDMENTS: 1. SOIL TEST: IS REQUIRED FOR EVERY EARTH DISTURBANCE OF 5 ACRES OR MORE...

- 2. APPLICATION: A. SEEDING: 1. SEED MIXTURES: SELECT ONE OR MORE OF THE SPECIES OR SEED MIXTURES LISTED IN TABLE B.1...
B. MULCHING: 1. MULCH MATERIALS (IN ORDER OF PREFERENCE): STRAW CONSISTING OF THOROUGHLY THRESHED WHEAT, RYE, OAT, OR BARLEY...
C. ANCHORING: 1. PERFORM MULCH ANCHORING IMMEDIATELY FOLLOWING APPLICATION OF MULCH TO MINIMIZE LOSS BY WIND...

- (B-4-3) STANDARDS AND SPECIFICATION FOR STOCKPILE AREA
DEFINITION: TO PROVIDE A DESIGNATED LOCATION FOR THE TEMPORARY STORAGE OF SOIL THAT CONTROLS THE POTENTIAL FOR EROSION, SEDIMENTATION, AND CHANGES TO DRAINAGE PATTERNS.
PURPOSE: TO PROVIDE A DESIGNATED LOCATION FOR THE TEMPORARY STORAGE OF SOIL THAT CONTROLS THE POTENTIAL FOR EROSION, SEDIMENTATION, AND CHANGES TO DRAINAGE PATTERNS.
CONDITIONS WHERE PRACTICE APPLIES: STOCKPILE AREAS ARE UTILIZED WHEN IT IS NECESSARY TO SALVAGE AND STORE SOIL FOR LATER USE.

- 1. THE STOCKPILE LOCATION AND ALL RELATED SEDIMENT CONTROL PRACTICES MUST BE CLEARLY INDICATED ON THE EROSION AND SEDIMENT CONTROL PLAN.
2. THE FOOTPRINT OF STOCKPILE MUST BE SIZED TO ACCOMMODATE THE ANTICIPATED VOLUME OF MATERIAL AND BASED ON A SIDE SLOPE RATIO NO STEEPER THAN 2:1.
3. RUNOFF FROM THE STOCKPILE AREA MUST DRAIN TO A SUITABLE SEDIMENT CONTROL PRACTICE.

- 4. CLEAR WATER RUNOFF INTO THE STOCKPILE AREA MUST BE MINIMIZED BY USE OF A DIVERSION DEVISE SUCH AS AN EARTH DIKE, TEMPORARY SWALE OR DIVERSION FENCE.
5. CONCENTRATED FLOW IN A NON-EROSIVE MANNER.
6. WHERE RUNOFF CONCENTRATES ALONG THE TOE OF THE STOCKPILE FILL, AN APPROPRIATE EROSION/SEDIMENT CONTROL PRACTICE MUST BE USED TO INTERCEPT THE DISCHARGE.

- 7. STOCKPILE MUST BE STABILIZED IN ACCORDANCE WITH THE 3/7 DAY STABILIZATION REQUIREMENT AS WELL AS STANDARD B-4-4 INCREMENTAL STABILIZATION AND STANDARD B-4-4 TEMPORARY STABILIZATION.
8. IF THE STOCKPILE IS LOCATED ON AN IMPERVIOUS SURFACE, A LINER SHOULD BE PROVIDED BELOW THE STOCKPILE TO FACILITATE CLEANUP, STOCKPILES CONTAINING CONTAMINATED MATERIAL MUST COVERED WITH IMPERMEABLE SHEETING.

- MAINTENANCE: THE STOCKPILE AREA MUST CONTINUOUSLY MEET THE REQUIREMENTS FOR ADEQUATE VEGETATIVE ESTABLISHMENT IN ACCORDANCE WITH SECTION B-4 VEGETATIVE STABILIZATION.
SIDE SLOPES MUST BE MAINTAINED AT NO STEEPER THAN 3:1 RATIO TO THE STOCKPILE AREA.
SIDE SLOPES MUST BE MAINTAINED AT NO STEEPER THAN 3:1 RATIO TO THE STOCKPILE AREA.
SIDE SLOPES MUST BE MAINTAINED AT NO STEEPER THAN 3:1 RATIO TO THE STOCKPILE AREA.

OWNER: RAFAT LLC, 5550 STERRETT PLACE, SUITE 103, COLUMBIA, MD 21044, 410-997-0296

(B-4-3) STANDARDS AND SPECIFICATIONS FOR SEEDING AND MULCHING

- DEFINITION: THE APPLICATION OF SEED AND MULCH TO ESTABLISH VEGETATIVE COVER.
PURPOSE: TO PROTECT DISTURBED SOILS FROM EROSION DURING AND AT THE END OF CONSTRUCTION.
CONDITIONS WHERE PRACTICE APPLIES: TO THE SURFACE OF ALL PERIMETER CONTROLS, SLOPES, AND ANY DISTURBED AREA NOT UNDER ACTIVE GRADING.
CRITERIA: A. SEEDING: 1. SEED MIXTURES: SELECT ONE OR MORE OF THE SPECIES OR SEED MIXTURES LISTED IN TABLE B.3...

- 2. APPLICATION: A. SEEDING: 1. SEED MIXTURES: SELECT ONE OR MORE OF THE SPECIES OR SEED MIXTURES LISTED IN TABLE B.1...
B. MULCHING: 1. MULCH MATERIALS (IN ORDER OF PREFERENCE): STRAW CONSISTING OF THOROUGHLY THRESHED WHEAT, RYE, OAT, OR BARLEY...
C. ANCHORING: 1. PERFORM MULCH ANCHORING IMMEDIATELY FOLLOWING APPLICATION OF MULCH TO MINIMIZE LOSS BY WIND...

- 3. ANCHORING: 1. PERFORM MULCH ANCHORING IMMEDIATELY FOLLOWING APPLICATION OF MULCH TO MINIMIZE LOSS BY WIND...
2. WHEN STRAW MULCH IS USED, SPREAD IT OVER ALL SEEDED AREAS AT THE RATE OF 2 TONS PER ACRE TO A UNIFORM LOOSE DEPTH OF 1 TO 2 INCHES.

- 4. MULCHING: 1. MULCH MATERIALS (IN ORDER OF PREFERENCE): STRAW CONSISTING OF THOROUGHLY THRESHED WHEAT, RYE, OAT, OR BARLEY...
2. WOOD CELLULOSE FIBER MULCH (WCFM) CONSISTING OF SPECIALLY PREPARED WOOD CELLULOSE...
3. WCFM IS TO BE DYED GREEN OR CONTAIN A GREEN DYE IN THE PACKAGE THAT WILL PROVIDE AN APPROPRIATE COLOR TO FACILITATE VISUAL INSPECTION...

- 5. ANCHORING: 1. PERFORM MULCH ANCHORING IMMEDIATELY FOLLOWING APPLICATION OF MULCH TO MINIMIZE LOSS BY WIND...
2. WHEN STRAW MULCH IS USED, SPREAD IT OVER ALL SEEDED AREAS AT THE RATE OF 2 TONS PER ACRE TO A UNIFORM LOOSE DEPTH OF 1 TO 2 INCHES.

EROSION AND SEDIMENT CONTROL NOTES

- 1. ALL SEDIMENT CONTROL OPERATIONS ARE TO BE DONE IN ACCORDANCE WITH SECTION 219 OF THE HOWARD COUNTY VOLUME IV DESIGN MANUAL AND THE STANDARDS AND SPECIFICATIONS FOR SEDIMENT CONTROL IN DEVELOPING AREAS.
2. ALL EROSION AND SEDIMENT CONTROL DEVICES SHALL BE INSTALLED AS THE FIRST ORDER OF BUSINESS.
3. ALL EXCAVATED MATERIALS SHALL BE STOCKPILED ON THE UPGRADE SIDE OF THE MAIN TRENCH.

SEQUENCE OF CONSTRUCTION

- 1. OBTAIN GRADING PERMIT (1 DAY)
2. INSTALL PERIMETER CONTROLS: SUPER SILT FENCE AND DIVERSION FENCE AT LOCATION SHOWN AS SHOWN ON PLAN (1 DAY)
3. CONSTRUCT STABILIZED CONSTRUCTION ENTRANCE AT LOCATION SHOWN (1 DAY)
4. CONSTRUCT SEDIMENT TRAP AND TEMPORARY DIVERSION SWALES (5 DAYS)
5. GRADE SITE PER PLAN (5 DAYS)
6. CONSTRUCT WATER AND SEWER MAINS (14 DAYS)
7. CONSTRUCT DRIVEWAY (5 DAYS)
8. COMPLETE FINE GRADING OF SITE TO GRADES INDICATED (2 DAYS)
9. SEED AND MULCH ALL REMAINING DISTURBED AREAS (1 DAY PER)
10. KEEP SEDIMENT TRAP IN PLACE UNTIL AFTER COMPLETION OF ULTIMATE SUBDIVISION AND CONSTRUCTION OF THE HOUSE.

- 11. ALL CONTRIBUTING DRAINAGE AREAS TO SEDIMENT CONTROL DEVICES HAVE BEEN STABILIZED, AND WITH PERMISSION OF SEDIMENT CONTROL INSPECTOR, REMOVE TEMPORARY DIVERSION SWALE FROM THE WESTERN SIDE OF THE PROPERTY AND SEED AND MULCH REMAINING DISTURBED AREA. LEAVE IN PLACE ALL OTHER PERIMETER CONTROLS FOR THE CONSTRUCTION.

(B-4-5) STANDARDS AND SPECIFICATIONS FOR PERMANENT STABILIZATION

- DEFINITION: TO STABILIZE DISTURBED SOIL WITH PERMANENT VEGETATION.
PURPOSE: TO USE LONG-LIVED PERENNIAL GRASSES AND LEGUMES TO ESTABLISH PERMANENT GROUND COVER OF DISTURBED EXPOSED SOILS WHERE GROUND COVER IS NEEDED FOR 6 MONTHS OR MORE.
CRITERIA: A. SEED MIXTURES: 1. GENERAL USE: SELECT ONE OR MORE OF THE SPECIES OF MIXTURES LISTED IN TABLE B.3 FOR THE APPROPRIATE PLANT HARDNESS ZONE...

- 2. TURFGRASS MIXTURES: A. AREAS WHERE TURF GRASS MAY BE DESIRE INCLUDE LAWNS, PARKS, PLAYGROUNDS, AND COMMERCIAL SITES WHICH WILL RECEIVE A MEDIUM TO HIGH LEVEL OF MAINTENANCE.
B. SELECT ONE OR MORE OF THE SPECIES OF MIXTURES LISTED BELOW BASED ON THE SITE CONDITIONS OR PURPOSE. ENTER SELECTED MIXTURE(S), APPLICATION RATES, AND SEEDING DATES IN THE PERMANENT SEEDING SUMMARY.

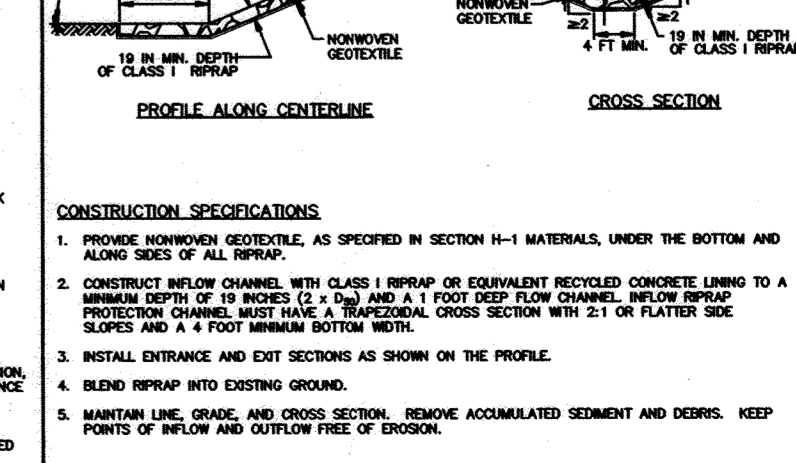
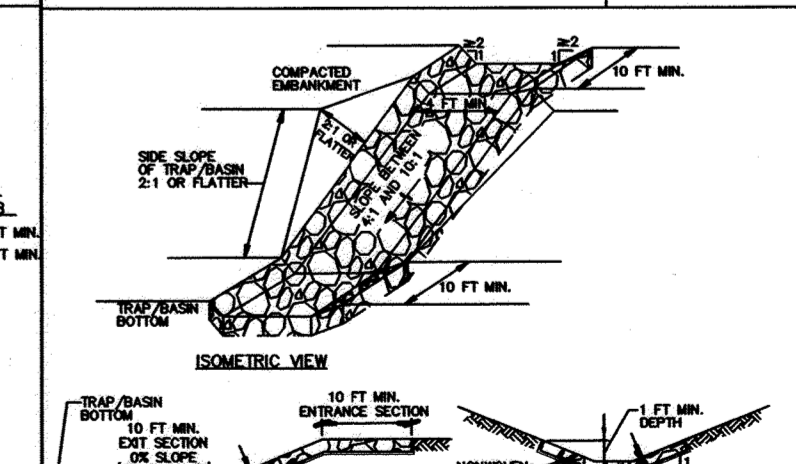
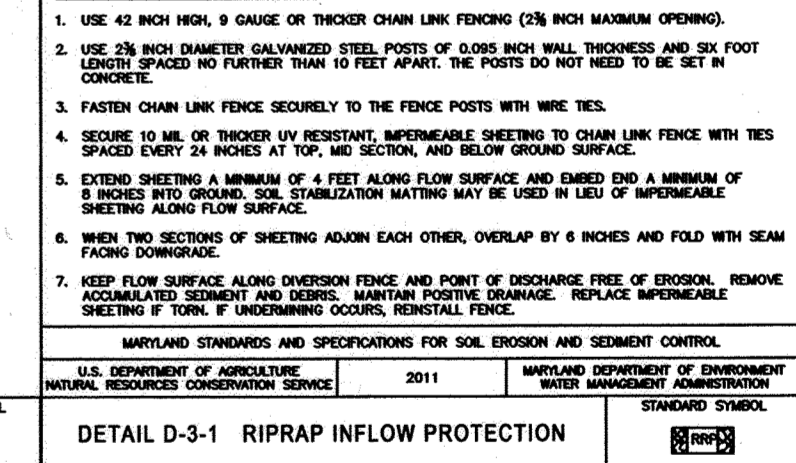
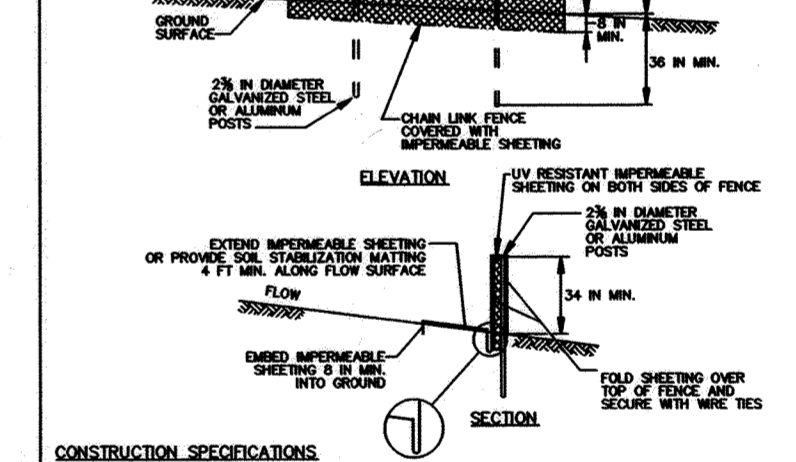
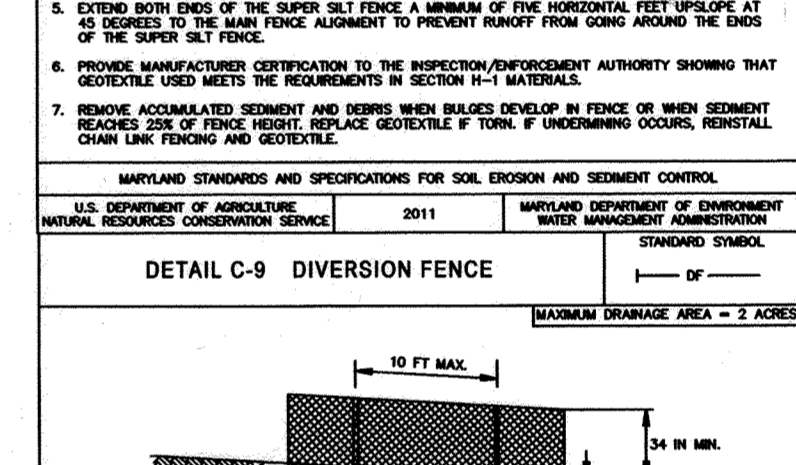
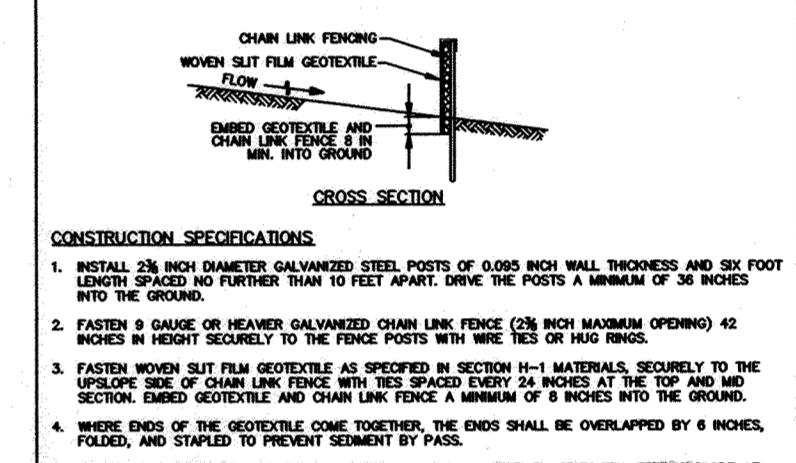
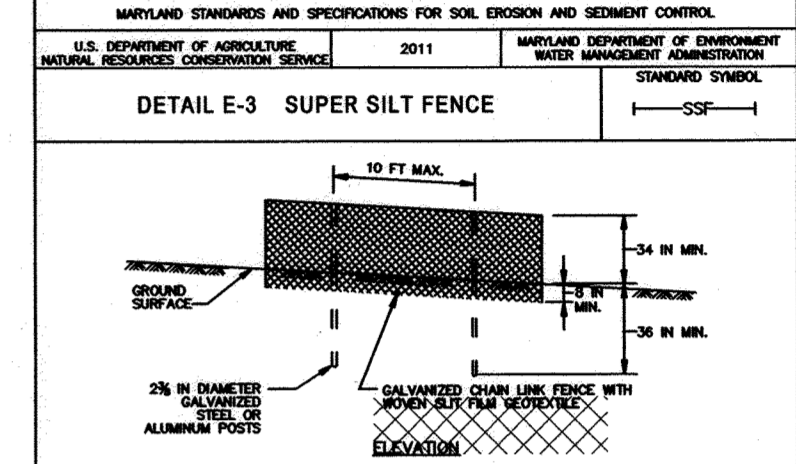
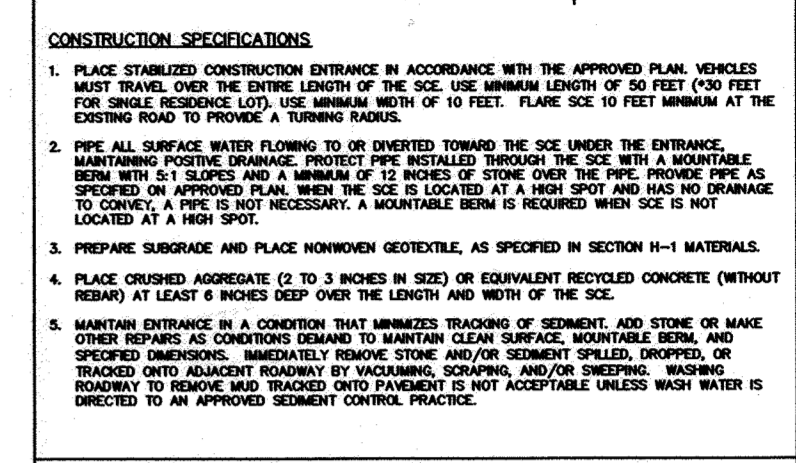
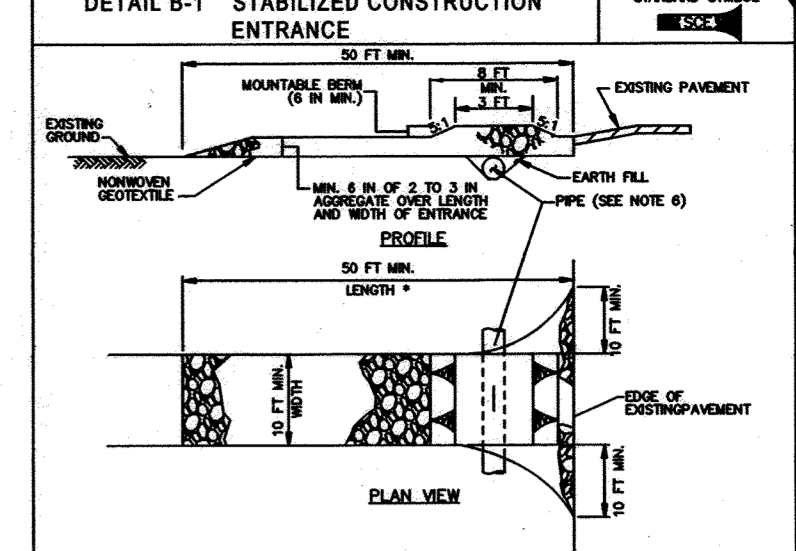
- 3. KENTUCKY BLUEGRASS/PERENNIAL RYE: FULL SUN MIXTURE: FOR USE IN FULL SUN AREAS WHERE RAPID ESTABLISHMENT IS NECESSARY AND WHEN TURF WILL RECEIVE MEDIUM TO INTENSIVE MANAGEMENT.
4. KENTUCKY BLUEGRASS/FINE FESCUE: SHADE MIXTURE: FOR USE IN AREAS WITH SHADE IN BROADLEAF LAINNS.

- 5. IDEAL TIMES OF SEEDING FOR TURF GRASS MIXTURES: WESTERN MD, MARCH 15 TO JUNE 1, AUGUST 1 TO OCTOBER 1 (HARDNESS ZONES: 5B,6A)
SOUTHERN MD, EASTERN SHORE, MARCH 1 TO MAY 15, AUGUST 15 TO OCTOBER 15 (HARDNESS ZONE: 7A, 7B)
TILL AREAS TO RECEIVE SEED BY DISKING OR OTHER APPROVED METHODS TO A DEPTH OF 2 TO 4 INCHES, LEVEL AND RAKE THE AREAS TO PREPARE A PROPER SEEDBED. REMOVE STONE AND DEBRIS OVER 1.5 INCHES IN DIAMETER.

- 6. IF SOIL MOISTURE IS DEFICIENT, SUPPLY NEAR SEEDINGS WITH ADEQUATE WATER FOR PLANT GROWTH 0.5 TO 1 INCH EVERY 3 TO 4 DAYS DEPENDING ON SOIL TEXTURE UNTIL THEY ARE FIRMLY ESTABLISHED. THIS IS ESPECIALLY TRUE WHEN SEEDINGS ARE MADE LATE IN THE PLANTING SEASON, IN ABNORMALLY DRY OR HOT SEASON, OR ON ADVERSE SITES.

TABLE B.4.7 MATERIALS SPECIFICATIONS FOR MICRO-BIORTENTATION, RAIN GARDENS & LANDSCAPE INFILTRATION

Table with columns: Material, Specification, Size, Notes. Lists materials like Plantings, Organic Compost, Mulch, Geotextile, and Sand with their respective specifications and notes.



CONSTRUCTION SPECIFICATIONS: 1. PLACE STABILIZED CONSTRUCTION ENTRANCE IN ACCORDANCE WITH THE APPROVED PLAN VEHICLES WHICH WILL RECEIVE A MEDIUM TO HIGH LEVEL OF MAINTENANCE.

Project: 16-018, Date: JAN. 2023, Scale: MAM, MAM, MAM, SA-A

Project: 16-018, Date: JAN. 2023, Scale: MAM, MAM, MAM, SA-A

Project: 16-018, Date: JAN. 2023, Scale: MAM, MAM, MAM, SA-A

Project: 16-018, Date: JAN. 2023, Scale: MAM, MAM, MAM, SA-A

Project: 16-018, Date: JAN. 2023, Scale: MAM, MAM, MAM, SA-A

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