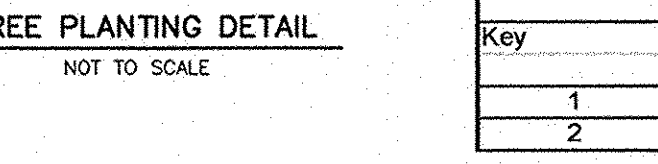
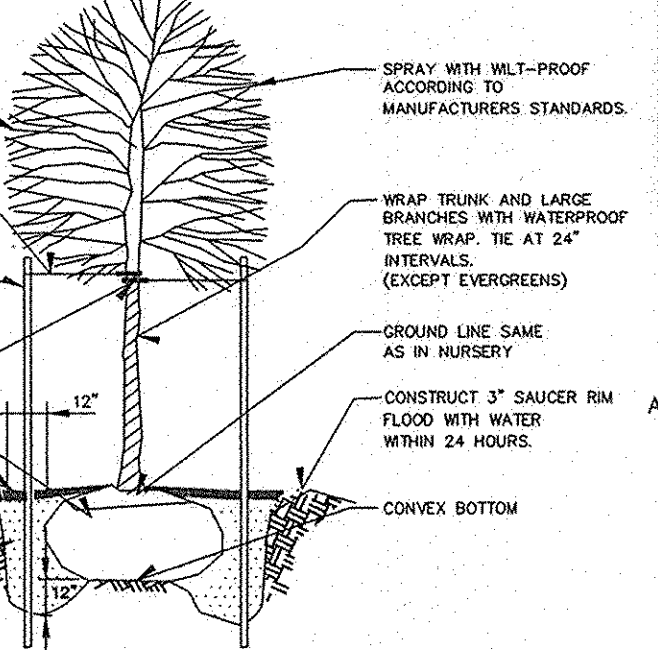
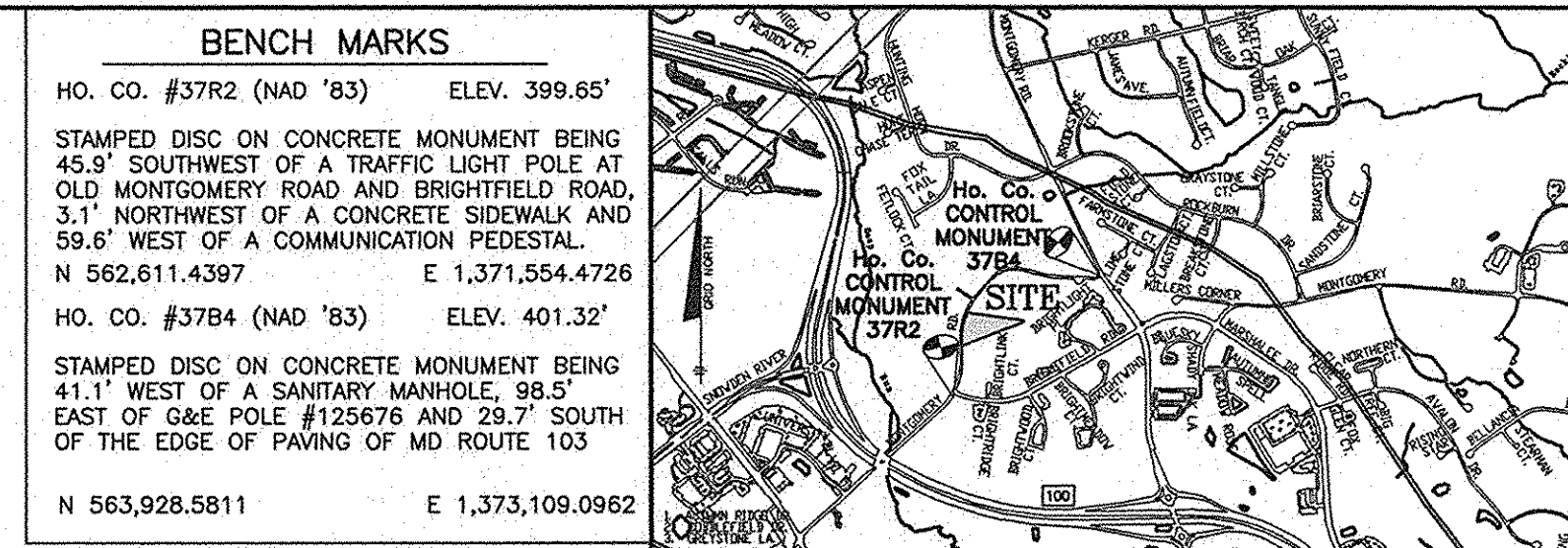
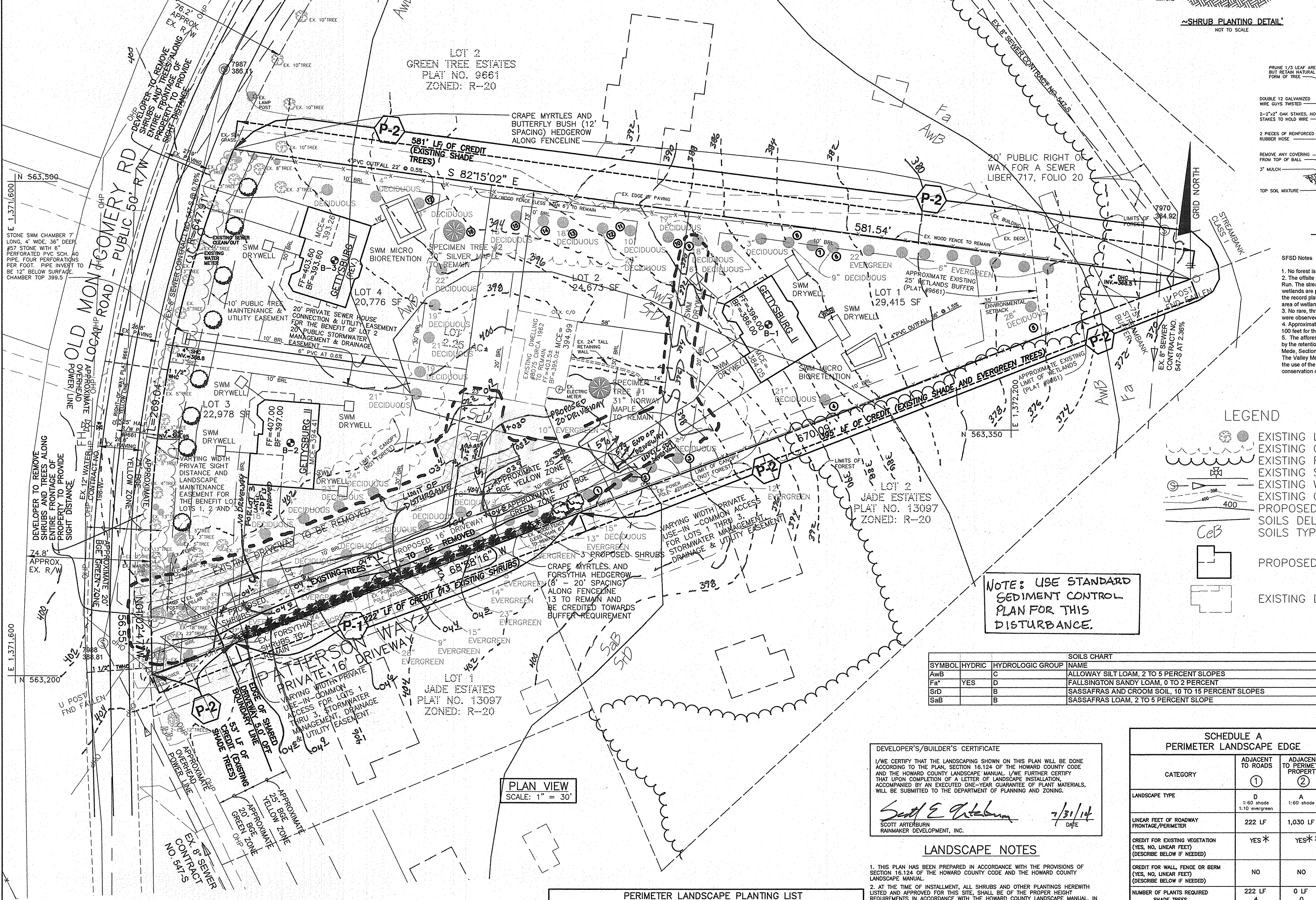


NOTE: SCARBOROUGH ESTATES IS A PROPOSED SUBDIVISION OF GREENTREE ESTATES LOT 1. GREENTREE ESTATES LOT 1 IS 2.25 AC. THE LOD ON THIS PLAN IS 19,400 SF (0.45 AC). THE LOD ON THIS SHEET IS FOR CONSTRUCTION OF THE SHARED DRIVEWAY, GRADING, AND REMOVAL OF THE EXISTING DRIVEWAY. AT THE TIME SCARBOROUGH PLAT IS RECORDED AN SDP WILL BE NECESSARY TO SHOW LOD AND CONTROLS.



Key	Species	Size (in. DBH)	CRZ (feet Radius)	Comments
1	Norway Maple	31		poor, broken main stem
2	Silver Maple	30		good

FOREST CONSERVATION WORKSHEET
Scarborough Estates

Computations by: JC BEI JOB No. 2604 Date: 1/13/2014

NET TRACT AREA:

A. Total tract area	2.30 ac.
B. Land Dedication acres (parks, county facility, etc.)	0.00 ac.
C. Area within underground transmissions lines but not Floodplain	0.00 ac.
D. Other deductions: (floodplain)	0.00 ac.
E. Net Tract Area	2.30 ac.

LAND USE CATEGORY:

Select category (R/L, R/M, Sub., C/O, Inst.) Sub.

G. Afforestation Threshold 15% x "F" = 0.30 ac.

H. Conservation threshold 20% x "F" = 0.50 ac.

EXISTING FOREST COVER:

I. Existing forest cover	0.00 ac.
J. Area of forest above afforestation threshold	0.00 ac.
K. Area of forest above conservation threshold	0.00 ac.

BREAK EVEN POINT:

L. Forest retention above threshold with no mitigation	0.00 ac.
M. Clearing permitted without mitigation	0.00 ac.
Break Even Point	0.36 ac.

PROPOSED FOREST CLEARING:

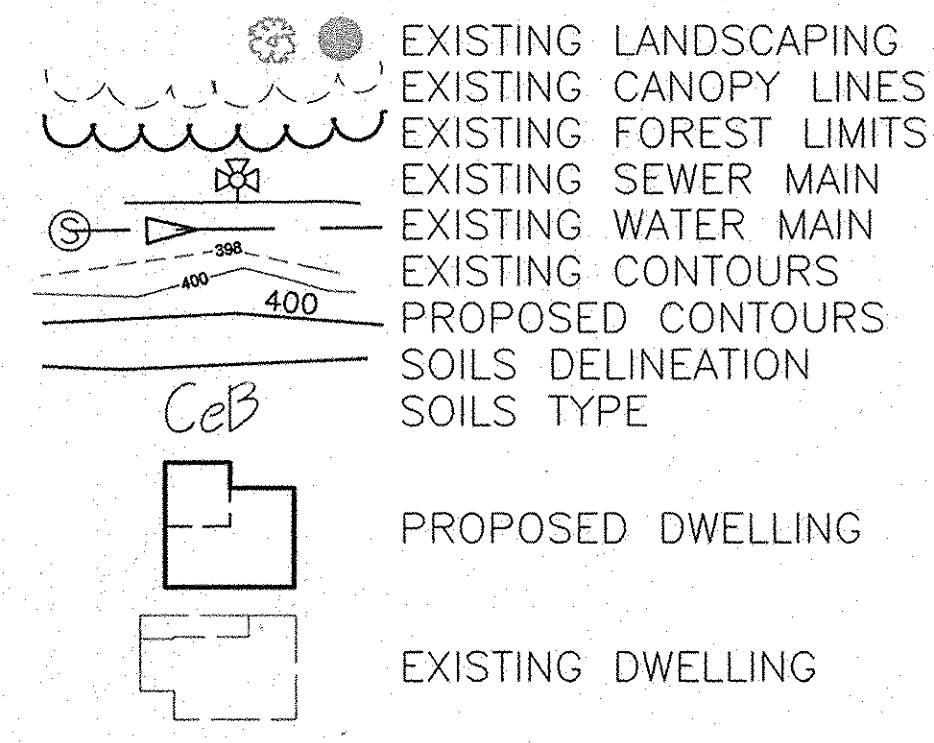
N. Total area of forest to be cleared	0.00 ac.
O. Total area of forest to be retained	0.00 ac.

PLANTING REQUIREMENTS:

P. Reforestation for clearing above conservation threshold	0.00 ac.
Q. Reforestation for clearing below conservation threshold	0.00 ac.
R. Credit for retention above conservation threshold	0.00 ac.
S. Total reforestation required	0.00 ac.
T. Total afforestation required	0.30 ac.
U. Credit for landscaping - may not exceed 20% of "S."	0.00 ac.
V. Total reforestation and afforestation required	0.30 ac.

The Forest Conservation Obligations for this project will be met by:
0.00 ac. of ex. forest retained within an on-site Forest Conservation Easement,
0.30 ac. of total reforestation and afforestation

LEGEND



NOTE: USE STANDARD SEDIMENT CONTROL PLAN FOR THIS DISTURBANCE.

SYMBOL	HYDRIC	HYDROLOGIC GROUP	NAME
AwB	C		ALLOWAY SILT LOAM, 2 TO 5 PERCENT SLOPES
Fa*	YES	D	FALLINGTON SANDY LOAM, 0 TO 2 PERCENT
SvD	B		SASSAFRAS AND CROOM SOIL, 10 TO 15 PERCENT SLOPES
SaB	B		SASSAFRAS LOAM, 2 TO 5 PERCENT SLOPE

DEVELOPER'S/BUILDER'S CERTIFICATE

I/WE CERTIFY THAT THE LANDSCAPING SHOWN ON THIS PLAN WILL BE DONE ACCORDING TO THE PLAN, SECTION 16.124 OF THE HOWARD COUNTY CODE AND THE HOWARD COUNTY LANDSCAPE MANUAL. I/WE FURTHER CERTIFY THAT UPON COMPLETION OF A LETTER OF LANDSCAPE INSTALLATION, ACCOMPANIED BY AN EXECUTED ONE-YEAR GUARANTEE OF PLANT MATERIALS, WILL BE SUBMITTED TO THE DEPARTMENT OF PLANNING AND ZONING.

Scott E. Arterburn 7/31/14
SCOTT ARTERBURN
RAINMAKER DEVELOPMENT, INC.

LANDSCAPE NOTES

- THIS PLAN HAS BEEN PREPARED IN ACCORDANCE WITH THE PROVISIONS OF SECTION 16.124 OF THE HOWARD COUNTY CODE AND THE HOWARD COUNTY LANDSCAPE MANUAL.
- AT THE TIME OF INSTALLMENT, ALL SHRUBS AND OTHER PLANTINGS HEREWITH LISTED AND APPROVED FOR THIS SITE, SHALL BE OF THE PROPER HEIGHT REQUIREMENTS IN ACCORDANCE WITH THE HOWARD COUNTY LANDSCAPE MANUAL. IN ADDITION, NO SUBSTITUTIONS 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 RELEASE OF LANDSCAPE SURETY UNTIL SUCH TIME AS ALL REQUIRED MATERIALS ARE PLANTED AND/OR REVISIONS ARE MADE TO APPLICABLE PLANS AND CERTIFICATIONS.
- THE OWNER, TENANTS 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.
- FINANCIAL SURETY IN THE AMOUNT OF \$6,510.00 (\$800 FOR 2 SHADE TREES, \$3,300 FOR 22 EVERGREENS AND \$210 FOR 7 SHRUBS IN PERIMETER 1 AND FOR \$2,400 FOR THE 8 STREET TREES) FOR THE REQUIRED PERIMETER LANDSCAPING AND STREET TREE LANDSCAPING SHALL BE POSTED AS PART OF THE BUILDERS GRADING PERMIT IN ASSOCIATION WITH THE SITE DEVELOPMENT PLAN STAGE OF THIS PROJECT.
- WRITTEN APPROVAL FROM B&E FOR THE PROPOSED LANDSCAPING ALONG OLD MONTGOMERY ROAD WAS OBTAINED BY CORRESPONDENCE DATED FEBRUARY 11, 2014 AND APPROVED UNDER THESE PLANS.

SCHEDULE A PERIMETER LANDSCAPE EDGE

CATEGORY	ADJACENT TO ROADS		ADJACENT TO PERIMETER PROPERTY		TOTAL
	①	②	③	④	
LANDSCAPE TYPE	D 1:60 shade 1:10 evergreen	A 1:60 shade			
LINEAR FEET OF ROADWAY FRONTAGE/PERIMETER	222 LF	1,030 LF			
CREDIT FOR EXISTING VEGETATION (YES, NO, LINEAR FEET) (DESCRIBE BELOW IF NEEDED)	YES*	YES**			
CREDIT FOR WALL, FENCE OR BERM (YES, NO, LINEAR FEET) (DESCRIBE BELOW IF NEEDED)	NO	NO			
NUMBER OF PLANTS REQUIRED	222 LF	0 LF			
SHADE TREES	4	0			0
EVERGREEN TREES	22	0			0
OTHER TREES (≥1 SUBSTITUTE)	0	0			0
SHRUBS	0	0			0
NUMBER OF PLANTS PROVIDED			2	0	2
SHADE TREES			22	0	22
EVERGREEN TREES			0	0	0
SHRUBS (10:1 SUBSTITUTE)			7	0	7

CREDIT BASED ON RETENTION OF THE EXISTING LINE OF CRAPE MYRTLES, FORSYTHIA, BUTTERFLY BUSHES, SHADE TREES AND EVERGREEN TREES.

* PERIMETER 1 HAS 13 EXISTING FORSYTHIA SHRUBS THAT ARE CREDITED FOR THE PERIMETER REQUIREMENT.

** PERIMETER 2 CONTAINS 16 EXISTING SHADE TREES AND 2 EXISTING EVERGREEN TREES THAT ACCOUNT FOR THE PERIMETER REQUIREMENT. THE TREES ARE SHOWN WITH A CIRCLE AND A NUMBER DESIGNATING THEM A THE PERIMETER TREE.

APPROVED: HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
Alan Serrano 8.8.14
CHIEF, BUREAU OF HIGHWAYS

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING
Robert Schuler 8.20.14
CHIEF, DIVISION OF LAND DEVELOPMENT

Chris P. Chisholm 8.19.14
CHIEF, DEVELOPMENT ENGINEERING DIVISION

PUBLIC STREET TREE PLANTING LIST - OLD MONTGOMERY ROAD

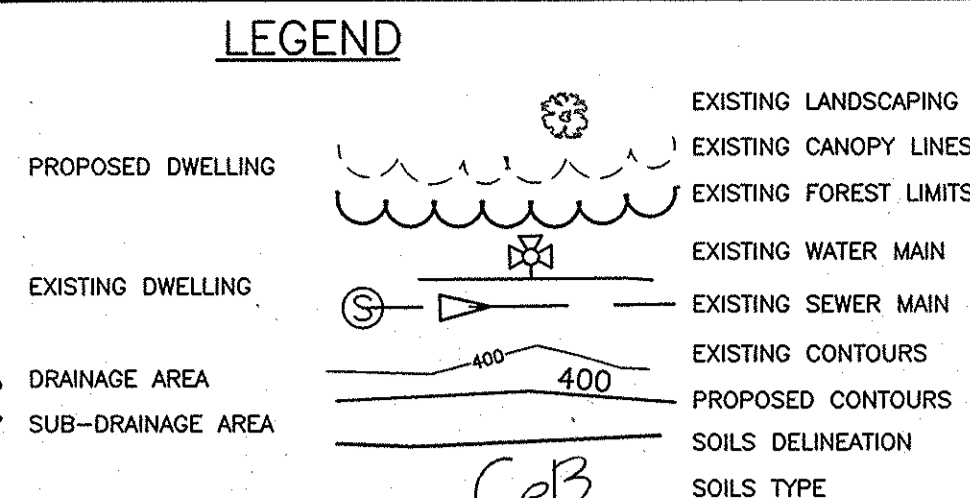
SYMBOL	QUANTITY	NAME	REMARKS
○	8	ACER SACCHARUM 'Green Mountain'	2 1/2" MIN. CAL B&E FULL HEAD STREET TREES TO BE PROVIDED BY THE DEVELOPER AT THE TIME GRADING PERMIT ISSUANCE
STREET TREE SCHEDULE			
ROAD NAME	PERIMETER TREES REQ.	TREES PROV.	
OLD MONTGOMERY ROAD	326	8	8
TOTALS		8	8

PERIMETER LANDSCAPE PLANTING LIST

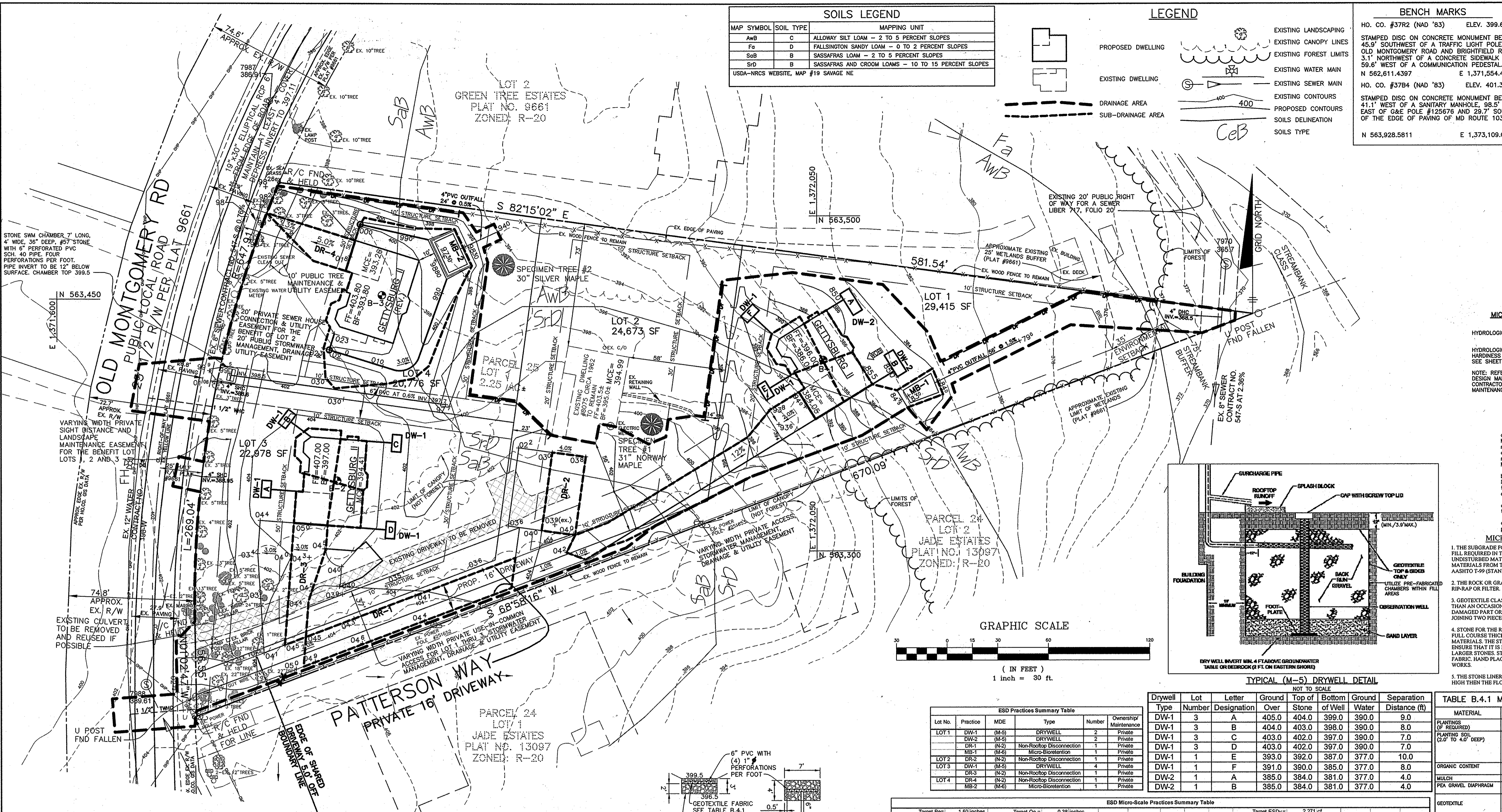
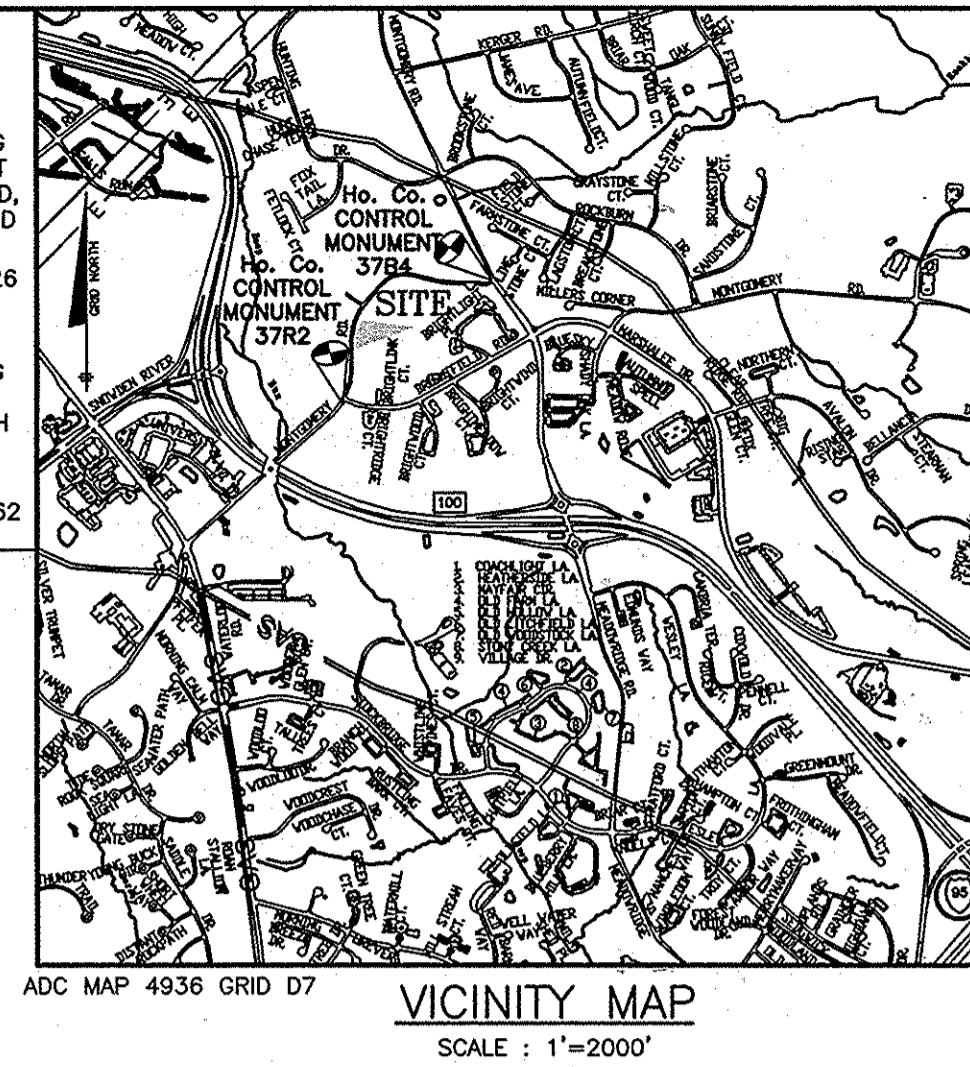
SYMBOL	QUANTITY	NAME	REMARKS	DESCRIPTION
*	7	FORSYTHIA INTERMEDIA 'SPECTABILIS' (showy border forsythia)	2' - 2.5' height	SHRUB PLANTING ALONG PERIMETER WHERE DRIVEWAY IS LESS THAN 10' TO BOUNDARY LINE TO BE PROVIDED BY THE BUILDER
○	2	LAGERSTROMIA INDICA (crape myrtle)	6' - 8' height	SHADE TREES PLANTING ALONG PERIMETER WHERE DRIVEWAY IS LESS THAN 10' TO BOUNDARY LINE TO BE PROVIDED BY THE BUILDER
●	22	THUJA OCCIDENTALIS 'SMARAGO' (emerald arborvitae)	2' - 2.5' height	EVERGREEN PLANTING ALONG PERIMETER WHERE DRIVEWAY IS LESS THAN 10' TO BOUNDARY LINE TO BE PROVIDED BY THE BUILDER

SOILS LEGEND		
MAP SYMBOL	SOIL TYPE	MAPPING UNIT
Awb	C	ALLOWAY SILT LOAM - 2 TO 5 PERCENT SLOPES
Fa	D	FALLSINGTON SANDY LOAM - 0 TO 2 PERCENT SLOPES
SaB	B	SASSAFRAS LOAM - 2 TO 5 PERCENT SLOPES
SrD	B	SASSAFRAS AND CROOM LOAMS - 10 TO 15 PERCENT SLOPES

USDA-NRCS WEBSITE, MAP #19 SAVAGE NE



BENCH MARKS	
HO. CO. #3782 (NAD '83)	ELEV. 399.65'
STAMPED DISC ON CONCRETE MONUMENT BEING 45.9' SOUTHWEST OF A TRAFFIC LIGHT POLE AT OLD MONTGOMERY ROAD AND BRIGHTFIELD ROAD, 3.1' NORTHWEST OF A CONCRETE SIDEWALK AND 59.6' WEST OF A COMMUNICATION PEDESTAL.	
N 562,611.4397	E 1,371,554.4726
HO. CO. #3784 (NAD '83)	ELEV. 401.32'
STAMPED DISC ON CONCRETE MONUMENT BEING 41.1' WEST OF A SANITARY MANHOLE 98.5' EAST OF G&E POLE #125676 AND 29.7' SOUTH OF THE EDGE OF PAVING OF MD ROUTE 103	
N 563,928.5811	E 1,373,109.0962



MICRO-BIORETENTION (M-6) PLANTING DATA

LANDSCAPE DATA

HYDROLOGIC ZONE 3 - REGULARLY INUNDATED (HIGH WATER)

HYDROLOGIC CONDITION - 0" TO 1"-0" DEEP HARDNESS - TEMPERATE ZONE 6b (-5" TO 0")

NOTE: REFER TO MDE 2000 MD STORMWATER DESIGN MANUAL VOLUMES 1 & 2 FOR LANDSCAPE CONTRACTOR RESPONSIBILITIES, PRACTICES AND MAINTENANCE DUTIES

1. PLANTINGS WITHIN THE POONDING AREA OF THE LS INFILTRATION ARE TO BE OF A MEDIUM TO HIGH WATER TOLERANCE (HIGH WATER)

SUGGESTED SPECIES: (AUGIA REPTANS) COMMON PERIWINKLE (VINCA MINOR) LANTANA (LANTANA SP.)

2. PLANTINGS ALONG THE PERIMETER (BENCH) AREA OF THE LS INFILTRATION ARE TO BE OF A LOW TO MEDIUM WATER TOLERANCE

SUGGESTED SPECIES: (PERENNIALS/ANNUALS) IRIS (IRIS VERSICOLOR) DAYLILY (HEMOCALLIS SP.) WHITE GLORY (ASTILE SP.)

OPERATION & MAINTENANCE SCHEDULE FOR (M-6) MICRO-BIORETENTION

a. The Owner shall maintain the plant material, mulch layer and soil layer annually. 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.

b. The Owner shall perform a plant in the spring and in the fall of each year. During the inspection, the Owner shall remove dead and diseased vegetation considered beyond treatment, replace dead plant material with acceptable replacement plant material, treat diseased trees and shrubs, and replace all deficient stakes and wires.

c. The Owner shall inspect the mulch each spring. The mulch shall be replaced every two to three years. The previous mulch layer shall be removed before the new layer is applied.

d. The Owner shall correct soil erosion on an as needed basis, with a minimum of once per month and after each heavy storm.

MICRO-BIORETENTION (M-6) CONSTRUCTION SPECIFICATIONS

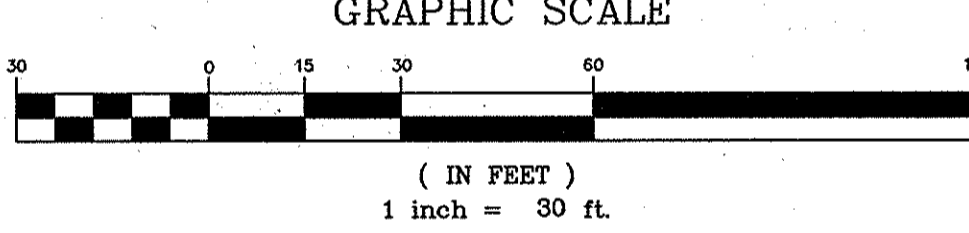
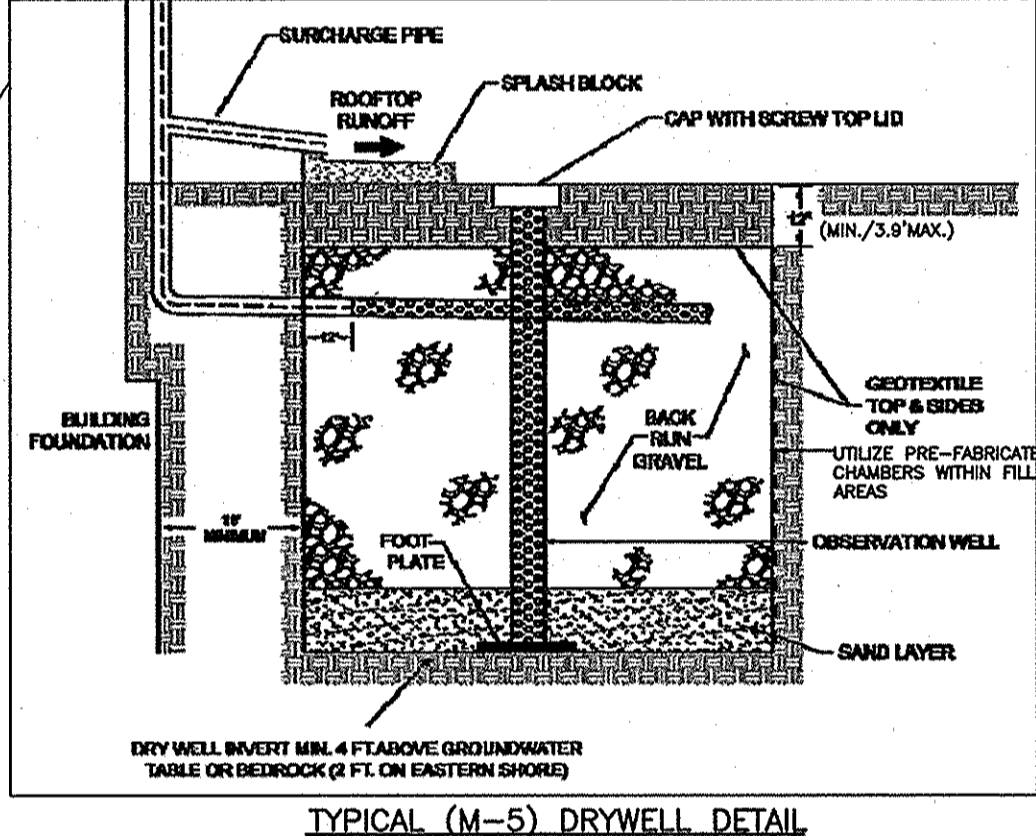
1. THE SUBGRADE FOR ALL BIORETENTION COMPONENTS SHALL BE PREPARED TO THE REQUIRED LIMITS AND GRADES ANY FILL REQUIRED IN THE SUBGRADE SHALL BE COMPACTED TO A DENSITY OF APPROXIMATELY THAT OF THE SURROUNDING UNDISTURBED MATERIAL. EMBANKMENTS SHALL BE PREPARED BY STRIPPING TOPSOIL AND ANY OTHER UNSUITABLE MATERIALS FROM THE AREAS, AND BE COMPACTED TO A MINIMUM OF 95% OF MAXIMUM DRY DENSITY REFERENCED TO ASTM D 1557 STANDARD PRACTICES.

2. THE ROCK OR GRAVEL SHALL CONFORM TO THE SPECIFIED GRADING LIMITS WHEN INSTALLED RESPECTIVELY IN THE RIP-RAP OR FILTER.

3. GEOTEXTILE CLASS C28 OR BETTER SHALL BE PROTECTED FROM PUNCHING, CUTTING OR TEARING ANY DAMAGE OTHER THAN AN OCCASIONAL SMALL HOLE SHALL BE REPAIRED BY PLACING ANOTHER PIECE OF GEOTEXTILE FABRIC OVER THE DAMAGED PART OR BY COMPLETELY REPLACING THE GEOTEXTILE FABRIC. ALL OVERLAPS WHETHER FOR REPAIRS OR FOR JOINING TWO PIECES OF GEOTEXTILE FABRIC SHALL BE A MINIMUM OF ONE FOOT.

4. STONE FOR THE RIP-RAP OR LEVEL SPREADERS MAY BE PLACED BY EQUIPMENT. THEY SHALL BE CONSTRUCTED TO THE FULL COURSE THICKNESS IN ONE OPERATION AND IN SUCH A MANNER AS TO AVOID DISPLACEMENT OF UNDERLYING MATERIALS. THE STONE FOR THE RIP-RAP OR LEVEL SPREADERS SHALL BE DELIVERED AND PLACED IN A MANNER THAT WILL ENSURE THAT IT IS RANDOMLY HOMOGENEOUS WITH THE SMALLER STONES AND SPALLS FILLING THE VOID BETWEEN THE LARGER STONES. STONE SHALL BE PLACED IN A MANNER TO PREVENT DAMAGE TO THE FILTER BLANKET OR GEOTEXTILE FABRIC. HAND PLACEMENT WILL BE REQUIRED TO THE EXTENT NECESSARY TO PREVENT DAMAGE TO THE PERMANENT WORKS.

5. THE STONE LINER SHALL BE PLACED SO THAT IT LIES WITHIN THE EXISTING GRADIENT. IF THE STONE IS PLACED TOO HIGH THEN THE FLOW WILL BE FORCED OUT OF THE CHANNEL AND SCOUR ADJACENT TO THE STONE WILL OCCUR.



ESD Practices Summary Table									
Lot No.	Practice	MDE	Type	Number	Ownership/ Maintenance	Target Per	1.50 inches	Target Per	0.39 inches
LOT 1	DW-1	(M-5)	DRYWELL	2	Private				
	DW-2	(M-5)	DRYWELL	2	Private				
	DR-1	(M-5)	Non-Rooftop Disconnection	1	Private				
	MB-1	(M-6)	Micro-Bioretenion	1	Private				
LOT 2	DR-2	(N-2)	Non-Rooftop Disconnection	1	Private				
LOT 3	DW-1	(M-5)	DRYWELL	4	Private				
	DR-3	(N-2)	Non-Rooftop Disconnection	1	Private				
LOT 4	DR-4	(N-2)	Non-Rooftop Disconnection	1	Private				
	MB-2	(M-6)	Micro-Bioretenion	1	Private				
Totals						25.45	13.59	0.80	0.32

ESD Micro-Scale Practices Summary Table										
Drainage Area	Practice	MDE	Type	No. used	Total DA to Practice	Total DA to Total Imp.	Imp. Treated by Practice	% of Treatment	Target ESD=1.50	2.271 of ESD=1.50
LOT 1	DW-1	(M-5)	DRYWELL	2	1,088	1,088	544	544	1,088	1,088
	DW-2	(M-5)	DRYWELL	2	1,088	1,088	544	544	1,088	1,088
	DR-1	(M-5)	Non-Rooftop Disconnection	1	4,250	2,125	0.75	4,250	2,125	2,115
LOT 2	DR-2	(N-2)	Non-Rooftop Disconnection	1	4,835	2,290	0.70	4,835	2,290	2,290
	DR-3	(N-2)	Non-Rooftop Disconnection	1	1,888	944	0.75	1,888	944	944
LOT 3	DW-1	(M-5)	DRYWELL	4	2,178	2,178	544	544	2,178	2,178
	DR-3	(N-2)	Non-Rooftop Disconnection	1	2,390	1,084	0.69	2,390	1,084	1,084
	DR-4	(N-2)	Non-Rooftop Disconnection	1	1,400	700	0.75	1,400	700	700
LOT 4	DR-4	(N-2)	Non-Rooftop Disconnection	1	6,320	2,174	0.54	6,320	2,174	2,174
	MB-2	(M-6)	Micro-Bioretenion	1	6,320	2,174	0.54	6,320	2,174	2,174
Totals						25.45	13.59	0.80	13.59	13.59

TABLE B.4.1 MATERIALS AND SPECIFICATIONS FOR (M-6) MICRO-BIORETENTION			
MATERIAL	SPECIFICATION	SIZE	NOTES
PLANTINGS (IF REQUIRED)	SEE APPENDIX A: TABLE A.4.1 AND 2	N/A	PLANTINGS ARE SITE SPECIFIC
LOAMY SAND (2.0" TO 4.0" DEEP)	LOAMY SAND (60-65%) & COMPOST (35-40%)	N/A	USDA SOIL TYPES: LOAMY SAND; SANDY LOAM; CLAY CONTENT < 35%
ORGANIC CONTENT	MIN. 10% BY DRY WEIGHT (ASTM D2974)	N/A	
MULCH	SHREDDED HARDWOOD	N/A	AGED 6 MONTHS, MINIMUM
PEA GRAVEL DIAPHRAGM	PEA GRAVEL (ASTM D-448)	#5 OR #8 (3/8" TO 3/4")	PE TYPE 1 - NONWOVEN
GEOTEXTILE	AASHTO M-43	#57 OR #6 (3/8" TO 3/4")	#8 STONE
GRAVEL (UNDERDRAIN & BENCH)	ASTM M-278	4" TO 6" RIGID RIPPED MINOR GRAVEL OVER PIPES, NOT NEARBY UNDERDRAIN PIPES	SLOTTED OR PERFORATED: 3/8" PERFS OR 6" O/C; 4 HOLES PER RIP-RAP; 1/4" CALIBER HARDNESS CLIN
UNDERDRAIN PIPING	F785, TYPE F252 OR ASTM M-278	4" TO 6" RIGID RIPPED MINOR PVC OR SD-3	SLOTTED OR PERFORATED: 3/8" PERFS OR 6" O/C; 4 HOLES PER RIP-RAP; 1/4" CALIBER HARDNESS CLIN
POURED-IN-PLACE CONCRETE (IF REQUIRED)	MSHA MIX NO. 3, 17-3000 PSI, 28 DAYS, NORMAL WEIGHT, AIR ENTRAINMENT, REINFORCING TO MEET ASTM (615-99)	N/A	ON-SITE TESTING OF POURED-IN-PLACE CONCRETE: 28 DAY STRENGTH TEST AND SLUMP TEST; COMPRESSION TEST (STATE OR LOCAL STANDARDS REQUIRED); DESIGN DRAWINGS (CAST AND APPROVED BY A PROFESSIONAL STRUCTURAL ENGINEER); LEASING IN THE STATE OF MARYLAND - DESIGN TO INCLUDE TESTING AND ANALYSIS OF FORTION CONCATIONS; ALLOWABLE HORIZONTAL LOADING (BASED ON SOIL PRESSURES); SAND SUBSTITUTIONS SUCH AS DUNES AND GRANITES (ASTM) ARE ALLOWABLE IF THEY MEET ALL REQUIREMENTS OF ASTM D-448; NO ROCK DUST CAN BE USED FOR SAND
SAND (1.0" DEEP)	AASHTO M-6 OR ASTM C-33	0.02" TO 0.04"	

MICRO-BIORETENTION (M-6) DESIGN TABLES

Micro-Bioretenion	MB-1 (M-6)	MB-2 (M-6)	
Elevation 1	394.50	Elevation 1	399.90
Elevation 2	394.00	Elevation 2	398.30
Elevation 3	393.00	Elevation 3	397.30
Elevation 4	392.83	Elevation 4	397.13
Elevation 5	390.83	Elevation 5	395.13
Elevation 6	380.50	Elevation 6	394.80
Elevation 7	379.52	Elevation 7	394.22
Elevation 8	379.24	Elevation 8	394.14

OPERATION AND MAINTENANCE SCHEDULE FOR PRIVATELY OWNED AND MAINTAINED DISCONNECTION OF ROOFTOP RUNOFF (N-1)

a. Maintenance of areas receiving disconnected runoff is generally no different than that required for other lawn or landscaped areas. The Owner shall ensure the areas receiving runoff are protected from future compaction or development of impervious area. In commercial areas, foot traffic should be discouraged as well.

b. The Owner shall inspect the monitoring wells and structures on a quarterly basis and after every heavy storm event.

c. The Owner shall record the water levels and sediment build up in the monitoring wells over a period of several days to insure trench drainage.

d. The Owner shall maintain a log book to determine the rate at which the facility drains.

e. 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.

f. The maintenance log book shall be available to Howard County for inspection to insure compliance with operation and maintenance criteria.

g. 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.

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

a. The Owner shall inspect the monitoring wells and structures on a quarterly basis and after every heavy storm event.

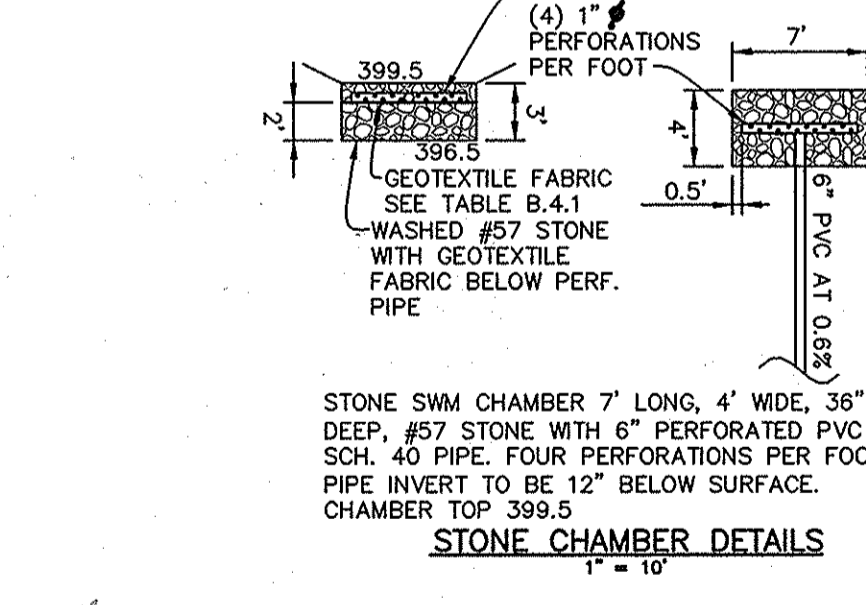
b. The Owner shall record the water levels and sediment build up in the monitoring wells over a period of several days to insure trench drainage.

c. The Owner shall maintain a log book to determine the rate at which the facility drains.

d. 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.

e. The maintenance log book shall be available to Howard County for inspection to insure compliance with operation and maintenance criteria.

f. 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.



APPROVED: HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS

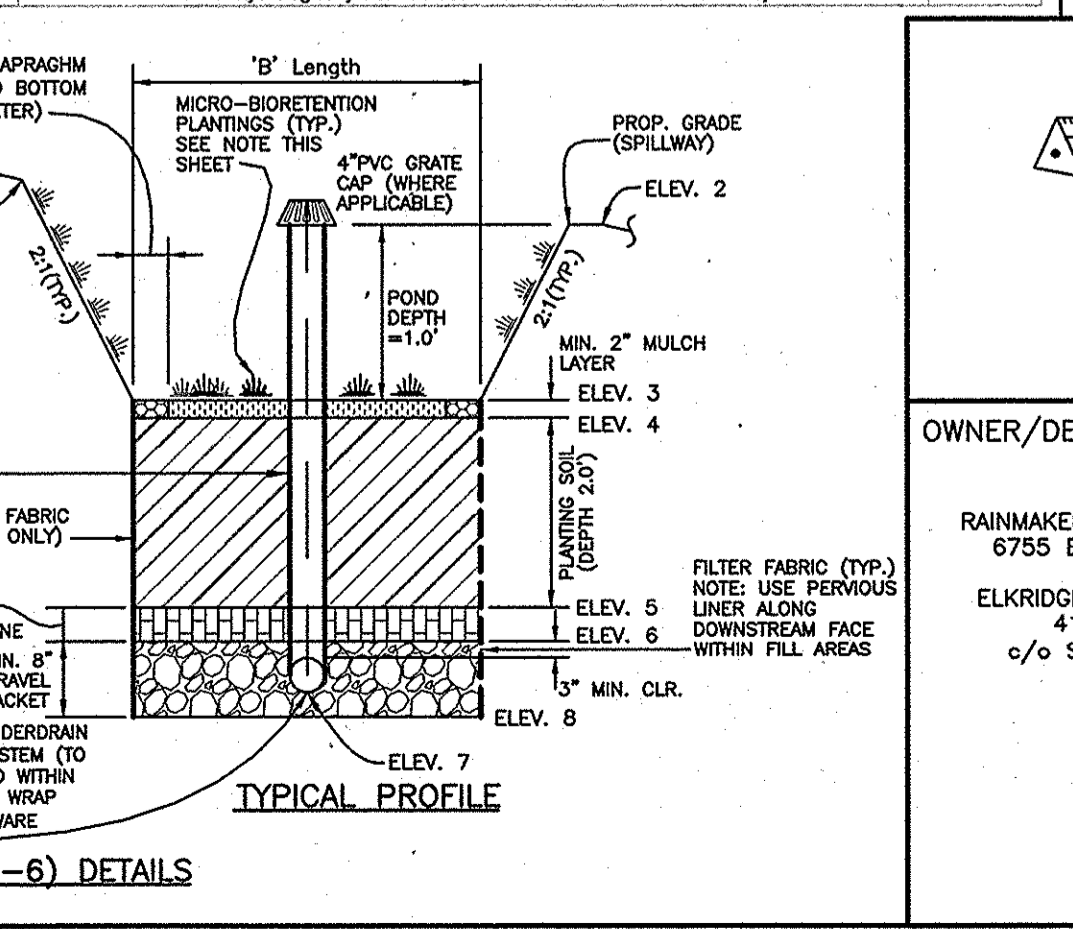
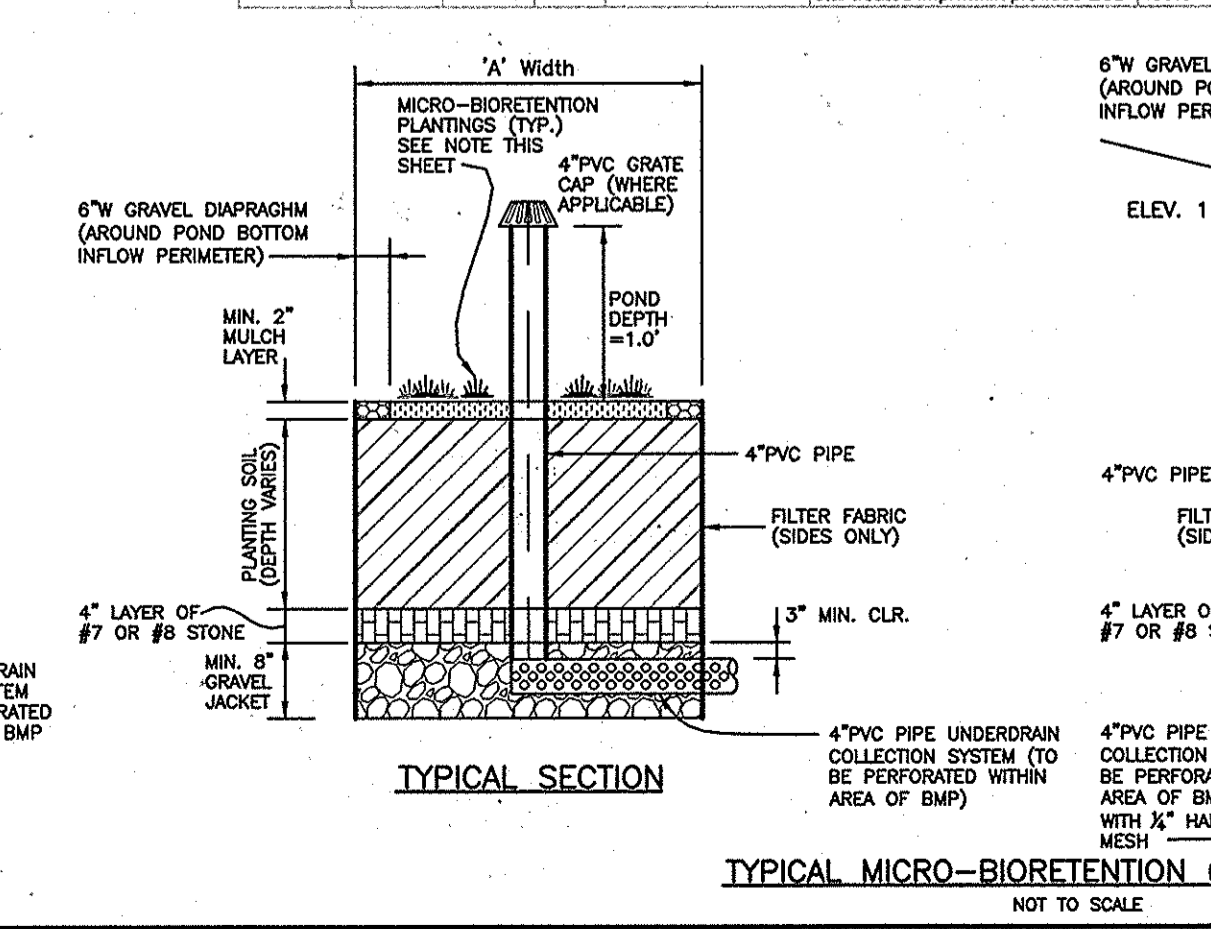
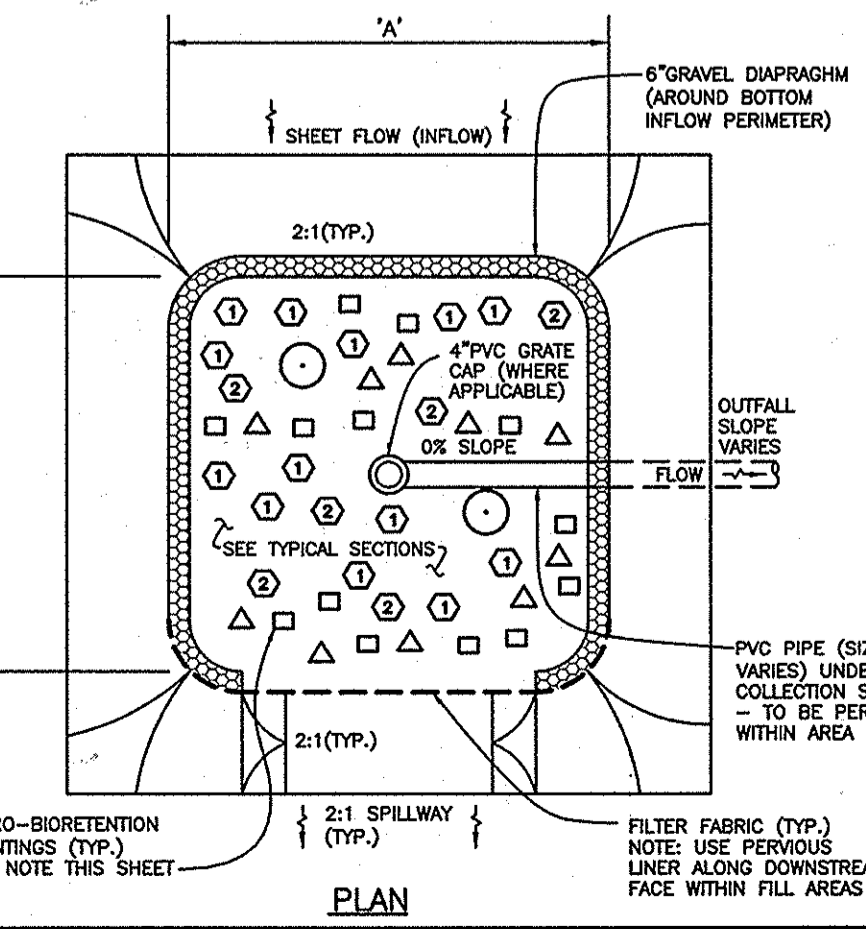
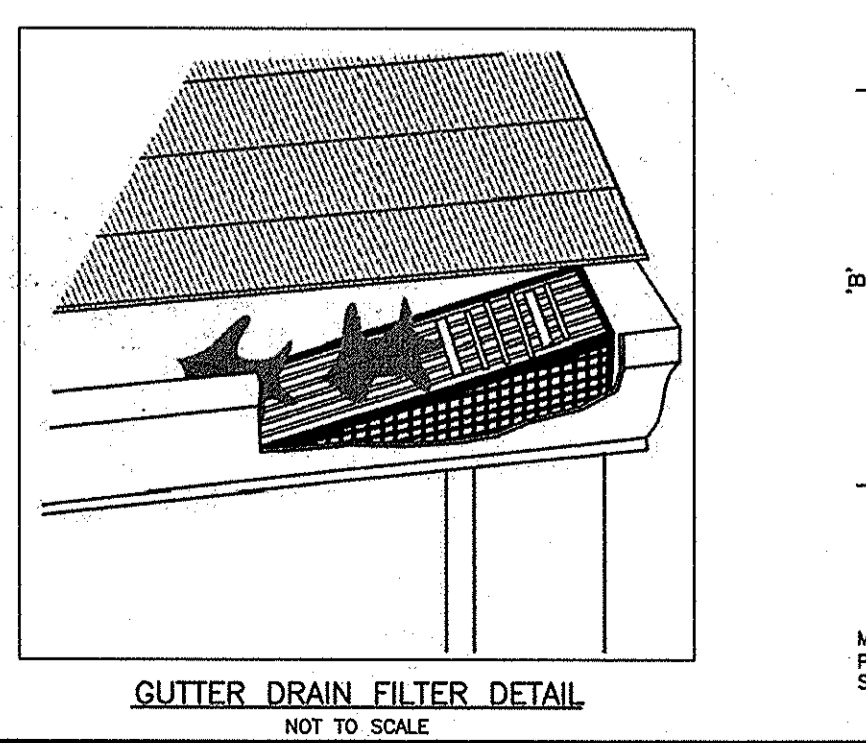
Holger Seixas 8-8-14
CHIEF, BUREAU OF HIGHWAYS

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING

Ket Schwab 8-20-14
CHIEF, DIVISION OF LAND DEVELOPMENT

Chad Edwards 8-19-14
CHIEF, DEVELOPMENT ENGINEERING DIVISION

MICRO-BIORETENTION (M-6) PLANTING TABLES	
MB-1 (M-6)	MB-2 (M-6)
Micro-Bioretenion	Micro-Bioretenion
Quantity	Quantity
VINCA MINOR (Common Periwinkle)	VINCA MINOR (Common Periwinkle)
18	27
AJUSTA REPTANS (Creeping Bushwax)	AJUSTA REPTANS (Creeping Bushwax)
16	24
IRIS VERSICOLOR (Iris)	IRIS VERSICOLOR (Iris)
9	13
HEMOCALLIS SP (Daylily)	HEMOCALLIS SP (Daylily)
5	8
ACER RUBRUM (Red Sweet Red Maple)	ACER RUBRUM (Red Sweet Red Maple)
1	1



BENCHMARK ENGINEERING, INC.

6460 BULTON NATIONAL PIKE A SUITE 315
ELLDOTT CITY, MARYLAND 21043
PHONE: 410-465-6105 FAX: 410-465-6844
WWW.BEI-ENGINEERING.COM

PROFESSIONAL CERTIFICATION: I hereby certify that these documents were prepared or approved by me, and that I am a duly licensed professional engineer in the State of Maryland, License No. 17214, dated 6-30-2015.

OWNER/DEVELOPER: SCARBOROUGH ESTATES
LOTS 1 THRU 4
8075 OLD MONTGOMERY ROAD

TAX MAP: 37 GRID, 02 PARCEL: 25
ZONED: R-20
ELECTION DISTRICT NO. 1
HOWARD COUNTY, MARYLAND

DATE: JULY, 2014
SCALE: AS SHOWN

BEI PROJECT NO. 2604
SHEET 2 OF 2