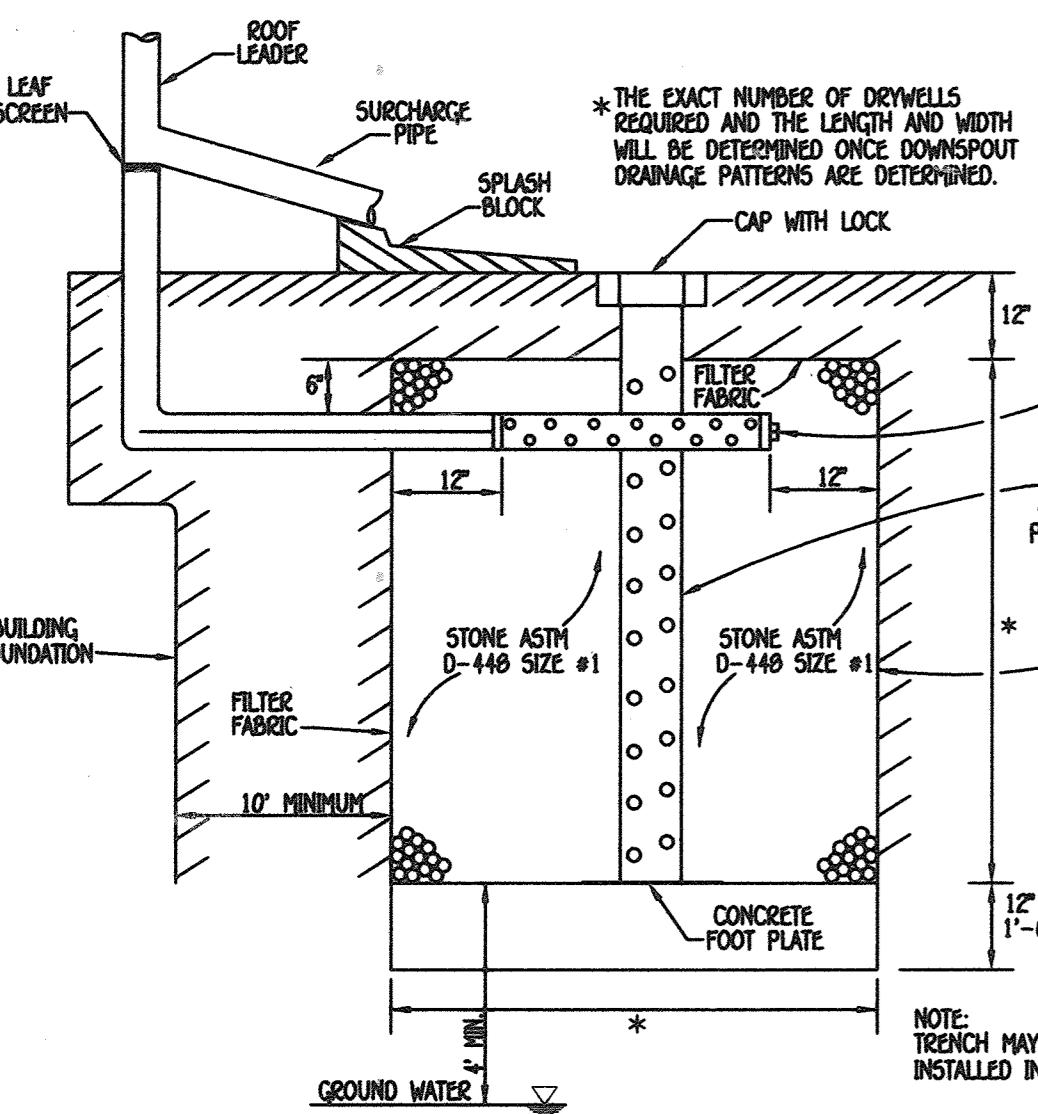


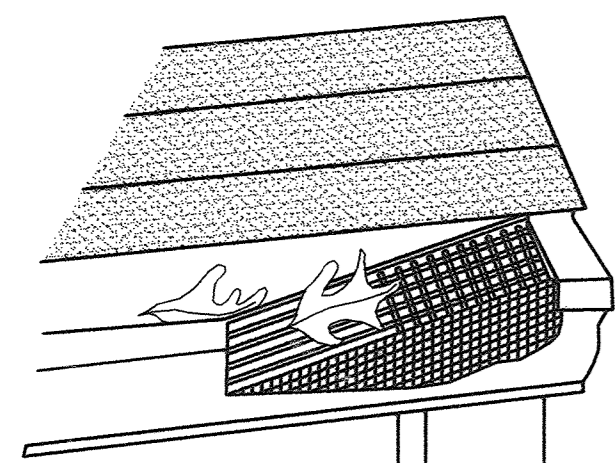
SHEET INDEX	
SHEET NUMBER	DESCRIPTION
1	TITLE SHEET
2	SITE DEVELOPMENT PLAN
3	SEDIMENT & EROSION CONTROL NOTES & DETAILS

STORMWATER MANAGEMENT SUMMARY			
AREA ID	ESDV REQUIRED CU.FT.	ESDV PROVIDED CU.FT.	REMARKS
SITE	1,006	1,304	DRYWELLS (M-5) & MICRO-BIORETENTION (M-6)
TOTAL	1,006	1,304	

GROSS AREA = 1.76 ACRES
 LOD = 1.06 ACRES (SITE)
 RCN = 60.0
 TARGET Pe = 1.13"



DRY WELL DETAIL (M-5)
NOT TO SCALE



GUTTER DRAIN FILTER DETAIL
NOT TO SCALE

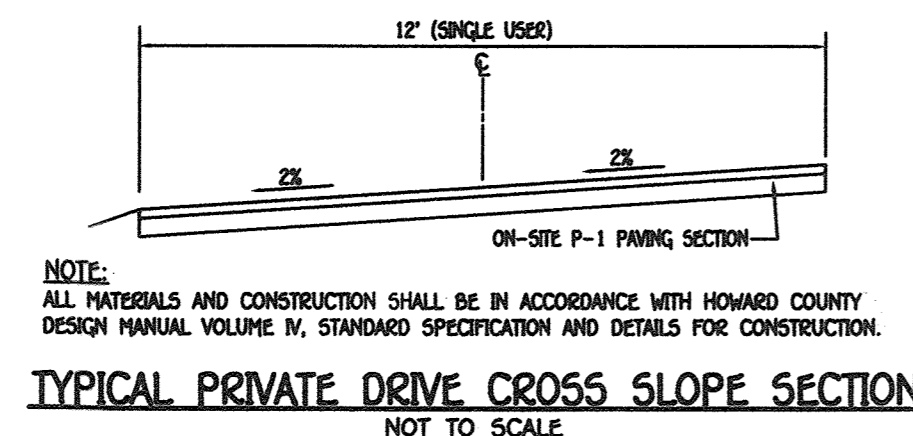
OPERATION & MAINTENANCE SCHEDULE FOR PRIVATELY OWNED AND MAINTAINED DRY WELLS (M-5)

- 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 LEVEL 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 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.

DEVELOPER
 B. JAMES GREENFIELD, MANAGING MEMBER
 IN CAPACITY AS TRUSTEE
 THE COLUMBIA BUILDERS GROUP, LLC
 6420 AUTUMN SKY WAY
 COLUMBIA, MARYLAND 21044
 443-324-4732

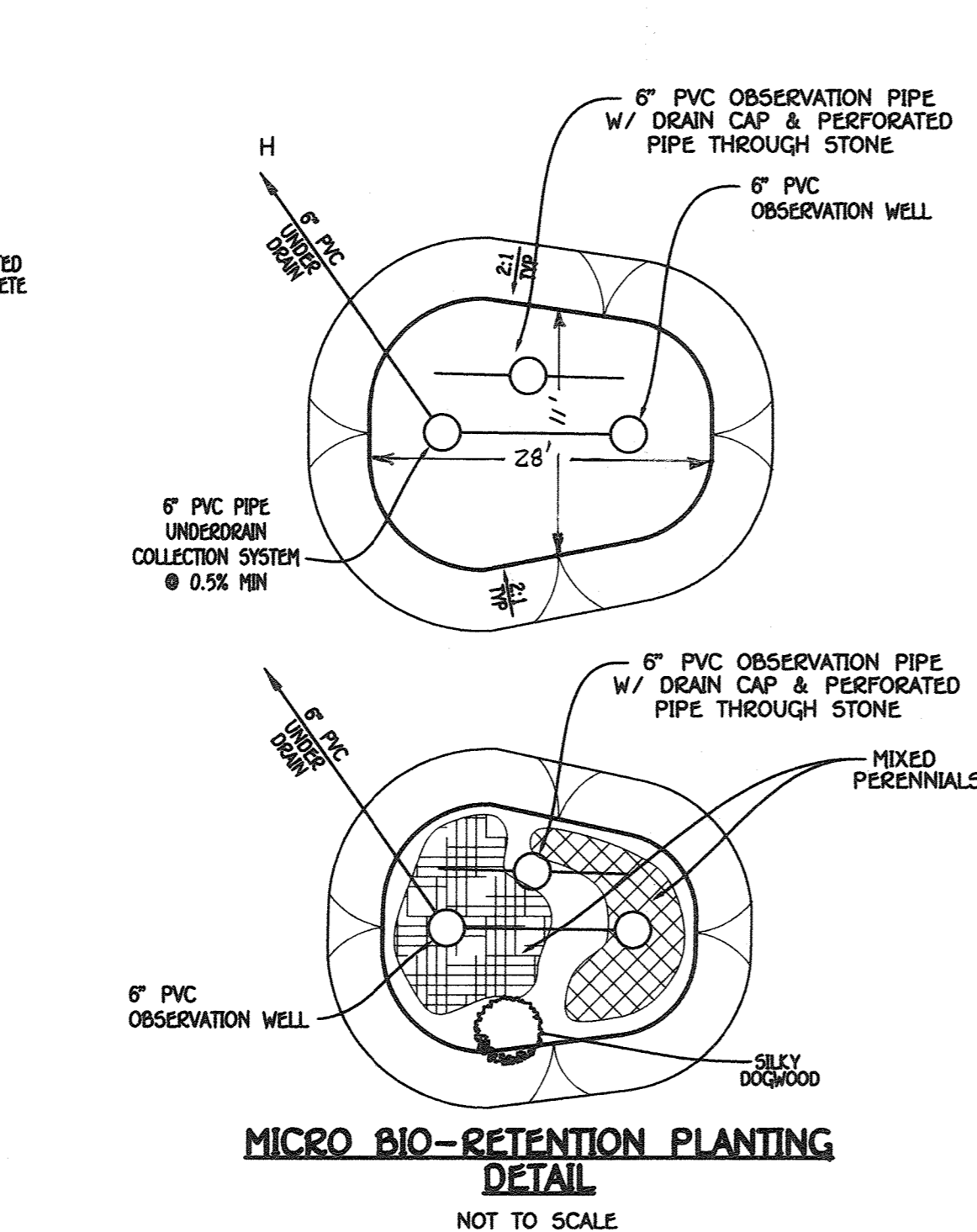
DRY WELL CHART					
DRYWELL ID.	AREA OF ROOF PER DOWN SPOUT	VOLUME REQUIRED	VOLUME PROVIDED	AREA OF TREATMENT	L W D
LOT 2 (RR LT)	473 SQ. FT.	43 C.F.	162 C.F.	100%+	9' x 9' x 5'
LOT 2 (RR RT)	505 SQ. FT.	53 C.F.	162 C.F.	100%+	9' x 9' x 5'

* AREA OF TREATMENT EXCEEDS THAT REQUIRED.



TYPICAL PRIVATE DRIVE CROSS SLOPE SECTION
NOT TO SCALE

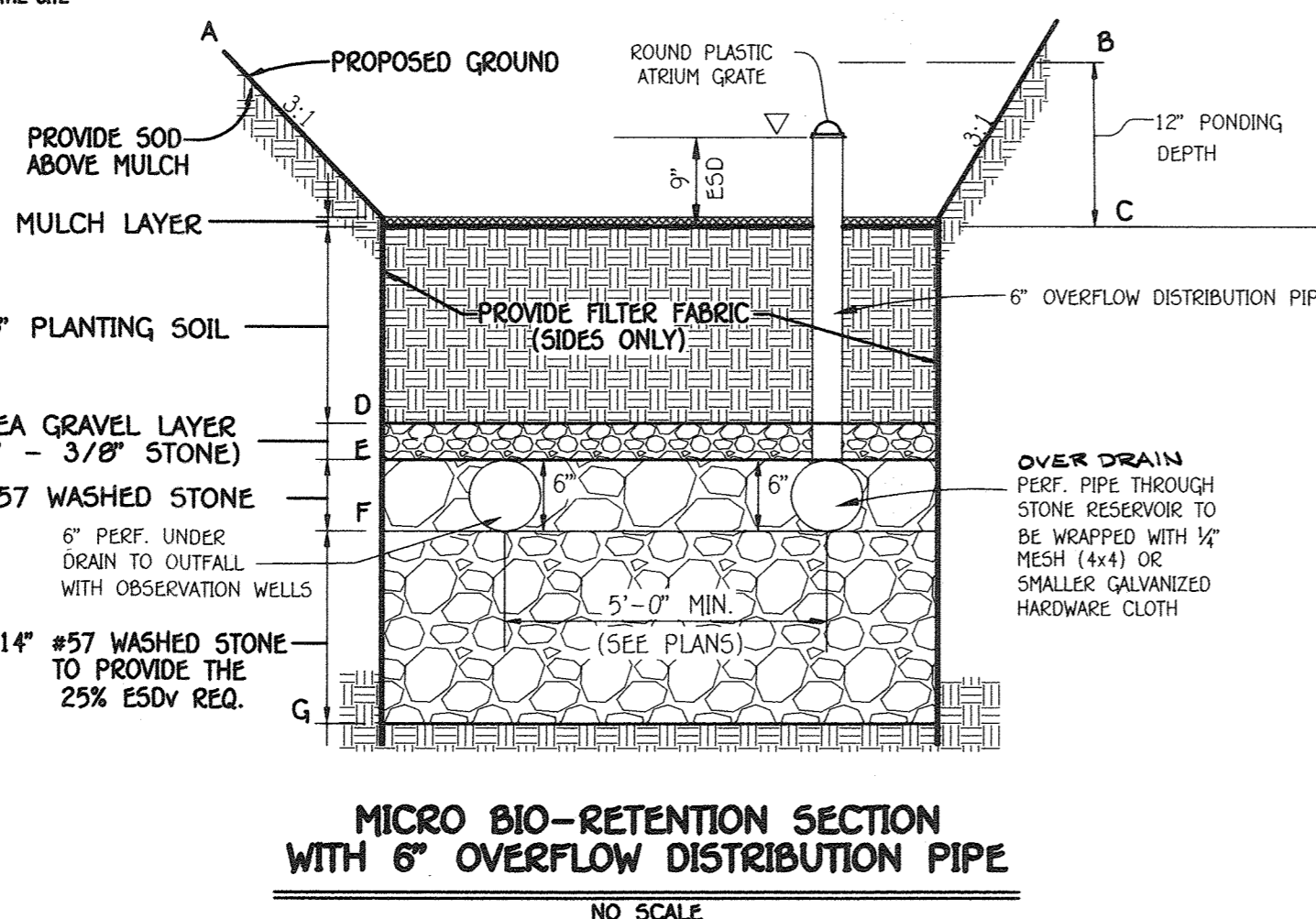
STORMWATER MANAGEMENT PRACTICES		
ADDRESS	DRYWELLS (NUMBER)	MICRO-BIORETENTION (NUMBER)
10844 HARDING ROAD	2	1
10840 HARDING ROAD	0	1



MICRO BIO-RETENTION PLANTING DETAIL
NOT TO SCALE

STORMWATER MANAGEMENT NOTES

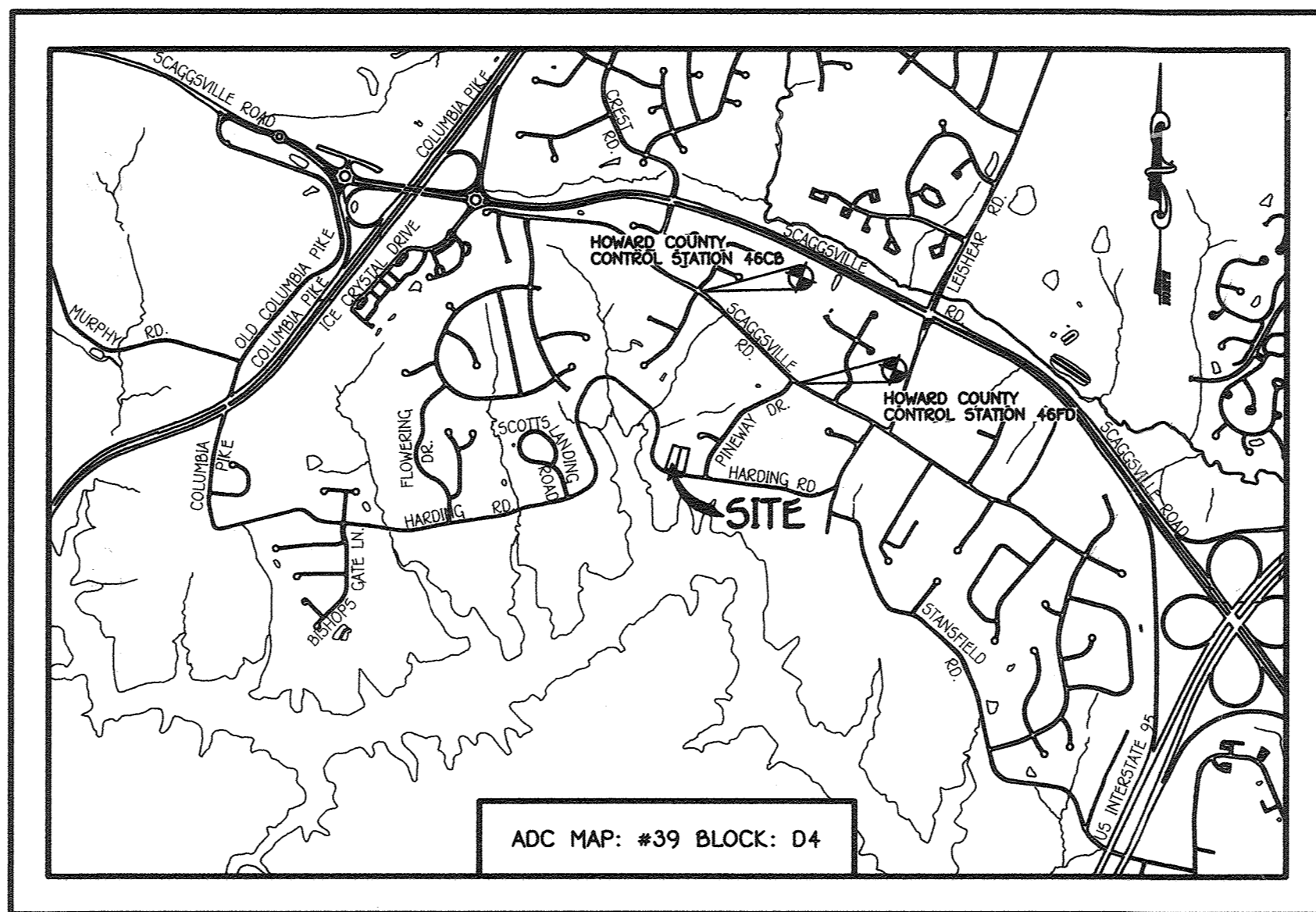
- STORMWATER MANAGEMENT IS PROVIDED IN ACCORDANCE WITH CHAPTER 5, "ENVIRONMENTAL SITE DESIGN" OF THE 2007 MARYLAND STORMWATER MANAGEMENT DESIGN MANUAL, EFFECTIVE MAY 4, 2010.
- MAXIMUM CONTRIBUTING ROOF TOP AREA TO EACH DOWNSPOUT SHALL BE 1,000 SQ. FT. OR LESS.
- DRYWELLS SHALL BE PROVIDED AT LOCATIONS WHERE THE LENGTH OF DISCONNECTION IS LESS THAN 75' AT 5%. THE SIZE AND CONSTRUCTION OF THE DRYWELL SHALL BE IN ACCORDANCE WITH THE DETAIL SHOWN ON THIS SHEET.
- FINAL GRADING IS SHOWN ON THE SITE DEVELOPMENT PLAN.



MICRO BIO-RETENTION SECTION WITH 6" OVERFLOW DISTRIBUTION PIPE
NO SCALE

SITE DEVELOPMENT PLAN PINE VALLEY, SECTION ONE LOTS 1 & 2

TAX MAP No.: 46, GRID No.: 11, PARCEL No.: 242
 SIXTH ELECTION DISTRICT, HOWARD COUNTY, MARYLAND



VICINITY MAP

SCALE: 1" = 2000'
 SCALE: 1" = 2000'

MICRO-BIORETENTION PLANT MATERIAL			
MICRO-BIO QUANTITY	MICRO-BIO 2 QUANTITY	NAME	MAXIMUM SPACING (FT.)
30	15	MIXED PERENNIALS	1.5 TO 3.0 FT.
1	1	DOGWOOD	PLANT AWAY FROM INFILTRATION

MICRO-BIORETENTIONS								
MICRO-BIO FILTER	A	B	C	D	E	F	G	H
#1	\$19.00	\$19.00	\$18.00	\$16.50	\$16.25	\$15.75	\$14.50	\$14.90
#2	\$19.00	\$19.00	\$16.00	\$14.00	\$13.50	\$13.00	\$11.75	\$11.50

NOTE: H FOR MICRO-BIO FILTER IS THE INVERT INTO THE PROPOSED YARD INLET.
 MICRO-BIO 1 - CO2 INV. 315.50/315.40, CO1 INV. 315.44/315.34

Table B.4. Materials Specifications for Micro-Bio-retention, Rain Gardens & Landscape Infiltration

Material	Specification	Size	Notes
Plantings	see Appendix A, Table A.4	n/a	plantings are site-specific
Planting soil (2" to 4" deep)	loamy sand 60-85% compost 20-40% or sandy loam 30% coarse sand 30% compost 40%		USDA soil type loamy sand or sandy loam; clay content <5%
Organic Content	Min. 10% by dry weight (ASTM D 2974)		
Mulch	shredded hardwood		aged 6 months, minimum
Peak gravel diaphragm	peak gravel: ASTM-D-440	No. 8 or No. 9 (1/8" to 3/8")	
Curtain drain	ornamental stone: washed cobble	stone: 2" to 5"	
Geotextile		n/a	PE Type 1 nonwoven
Gravel (underdrains and infiltration berms)	ASHTO M-43	No. 57 or No. Aggregate (3/8" to 3/4")	
Underdrain piping	F 750, Type PS 20 or ASHTO M-278	4" to 6" rigid schedule 40 PVC or 50825	Sloped or perforated pipe; 3/8" perf. @ 6" on center, 4 holes per row; minimum of 2" of gravel over pipes; not necessary underdrain pipes. Perforated pipe shall be wrapped with 1/4 inch galvanized hardware cloth
Poured in place concrete (if required)	MSHA Mix No. 3, f = 3500 psi at 28 days, normal weight, air-entrained, conforming to meet ASTM-615-60	n/a	on-site testing of poured-in-place concrete required: 28 day strength and slump test; all concrete design (cast-in-place or pre-cast) not using previously approved 50psi or local standards requires design drawings sealed and approved by a professional structural engineer licensed in the State of Maryland - design to include meeting AC Code 308.2.6, vertical loading (H-10 or H-20), allowable horizontal loading (based on soil pressures), and analysis of potential cracking
Sand	ASHTO-M-6 or ASTM-C-33	0.075" to 0.04"	Sand substitutions such as Diabase and Gneiss (ASHTO) #10 are not acceptable. No calcium chlorinated or dolomitic sand substitutions are acceptable. No "rock dust" can be used for sand.

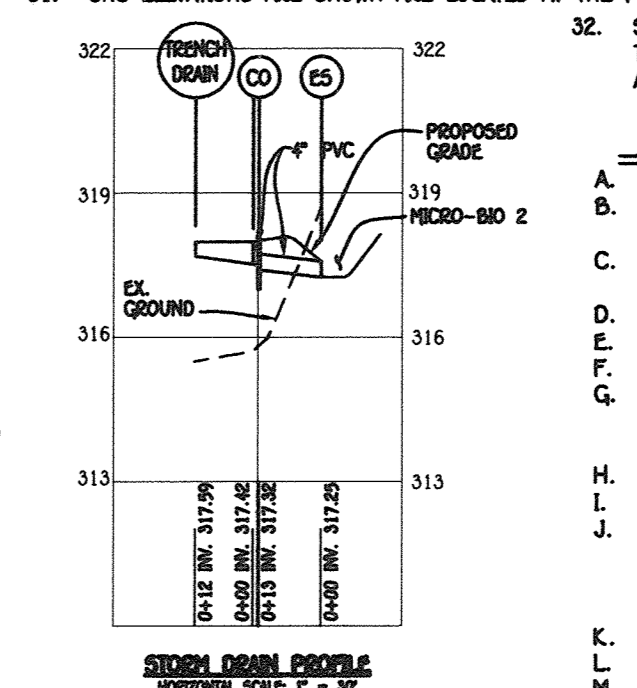
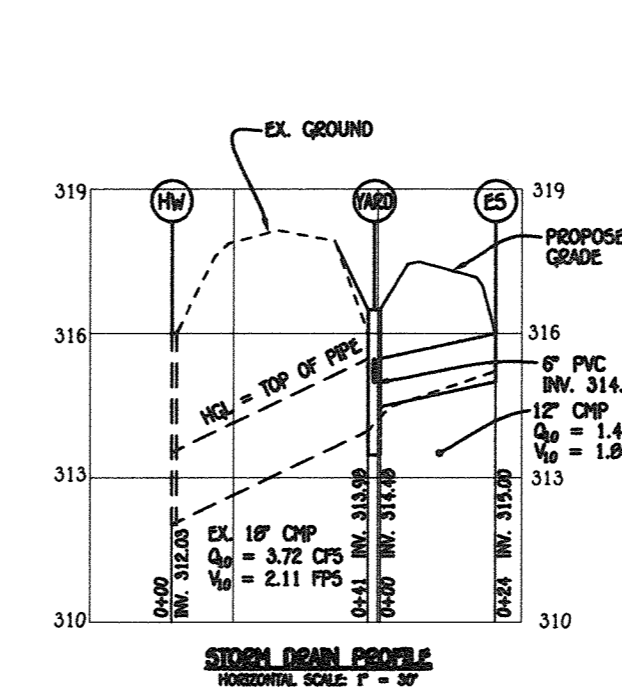
LEGEND			
SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
---	EXISTING CONTOUR 2' INTERVAL	---	PROPOSED CONTOUR 10' INTERVAL
---	EXISTING CONTOUR 10' INTERVAL	---	SPOT ELEVATION
X	EXISTING FENCE	---	PROPOSED PAVING
---	EXISTING STORM DRAIN LINE	---	EXISTING TREELINE
---	EXISTING WATER LINE	---	PROPOSED TREELINE
---	STEEP SLOPES 15%-24.9%	---	BUILDING RESTRICTION LINE
---	STEEP SLOPES 25% OR GREATER	---	LINE OF DISTURBANCE
---	PROPOSED CONTOUR 2' INTERVAL	---	SUPER SILT FENCE
---	5' SILENT	---	STABILIZED CONSTRUCTION ENTRANCE
---	PERMANENT SOIL STABILIZATION MATTING	---	DRAINAGE AREA DIVIDE
---	TEMPORARY CHECK DAM	---	

General Notes:

- BOUNDARY SHOWN HEREON IS BASED ON FIELD RUN MONUMENTED BOUNDARY SURVEY PERFORMED BY FISHER, COLLINS & CARTER, INC. DATED MARCH 2017. TOPOGRAPHY SHOWN HEREON IS BASED ON A TOPOGRAPHIC SURVEY PERFORMED BY FISHER, COLLINS & CARTER, INC. IN MARCH 2017 AND SUPPLEMENTED WITH HOWARD COUNTY GIS TOPOGRAPHY AT 5' CONTOUR INTERVAL INTERPOLATED FOR 2' CONTOUR INTERVAL.
- COORDINATES ARE BASED ON NAD 83 MARYLAND COORDINATES SYSTEM AS PROJECTED BY HOWARD COUNTY GEODETIC CONTROL STATIONS.
 46FD N 535,892.901 E 1,345,540.096 ELEV. 379.934
 46CB N 537,123.037 E 1,344,291.422 ELEV. 394.632
- STORMWATER MANAGEMENT IS IN ACCORDANCE WITH THE M.D.E. STORMWATER DESIGN MANUAL, VOLUMES I & II, REVISED 2009. NON-STRUCTURAL PRACTICES IN ACCORDANCE WITH CHAPTER 5 ARE BEING UTILIZED, TWO DRYWELLS (M-5) AND TWO MICRO-BIORETENTIONS (M-6) ARE PROPOSED. ALL DEVICES ARE TO BE PRIVATELY OWNED AND MAINTAINED.
- THIS PROPERTY IS LOCATED INSIDE THE METROPOLITAN DISTRICT. LOTS TO BE SERVED BY PUBLIC WATER AND SEWER.
- ANY DAMAGE TO THE COUNTY'S RIGHT-OF-WAY SHALL BE CORRECTED AT THE DEVELOPER'S EXPENSE.
- THE SUBJECT PROPERTY IS ZONED R-20 (PER DATE 10/06/2013 COMPREHENSIVE ZONING PLAN).
- STEEP SLOPES EXIST ON-SITE.
- WETLANDS, STREAM(S) AND/OR THEIR BUFFERS, AND FLOODPLAIN DO NOT EXIST ON-SITE. SEE ENVIRONMENTAL FINDINGS LETTER PREPARED BY ECO-SCIENCE PROFESSIONALS, INC. DATED APRIL, 2017.
- LANDSCAPING WILL NOT BE REQUIRED FOR THESE EXISTING LOTS SINCE THEY ARE EXISTING.
- LOT 1 IS EXEMPT FROM FOREST CONSERVATION REQUIREMENTS OF SECTION 16.1202(b)(1)(i) SINCE IT IS LESS THAN 40,000 SQ.FT. LOT 2 IS SUBJECT TO SECTION 16.1202(b)(2)(i)(a), A DECLARATION OF INTENT (DOI) FOR CLEARING LESS THAN 20,000 SQ.FT. OF FOREST.
- NO STRUCTURES EXIST ON THIS PROPERTY.
- PROPERTY LOCATED ON HOWARD COUNTY SOIL SURVEY #23.
- ALL AREAS ARE MORE OR LESS (±).
- DRIVEWAYS SHALL BE PROVIDED PRIOR TO ISSUANCE OF A USE AND OCCUPANCY PERMIT FOR ANY NEW DWELLINGS 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 - SIX (6) INCHES OF COMPACTED CRUSHER RUN BASE WITH TAR AND CHIP COATING, (1-1/2" MINIMUM);
 C. GEOMETRY - MAXIMUM 15% GRADE, MAXIMUM 10% GRADE CHANGE AND 45-FOOT TURNING RADIUS;
 D. STRUCTURES (CULVERTS/BRIDGES) - CAPABLE OF SUPPORTING 25 GROSS TONS (H25-LOADING);
 E. DRAINAGE ELEMENTS - CAPABLE OF SAFELY PASSING 100 YEAR FLOOD WITH NO MORE THAN 1 FOOT DEPTH OVER SURFACE;
 F. STRUCTURE CLEARANCE - MINIMUM 12 FEET;
 G. MAINTENANCE - SUFFICIENT TO ENSURE ALL WEATHER USE.
- NO HISTORIC STRUCTURES OR CEMETERIES EXIST ON THE SUBJECT PROPERTY BASED ON VISUAL OBSERVATION OR LISTED IN AVAILABLE HOWARD COUNTY CEMETERY INVENTORY MAP.
- SITE IS ADJACENT TO A SCENIC ROAD.
- THIS PLAN IS SUBJECT TO THE AMENDED FIFTH EDITION OF THE SUBDIVISION AND LAND DEVELOPMENT REGULATIONS. DEVELOPMENT OR CONSTRUCTION ON THESE LOTS MUST COMPLY WITH SETBACK AND BUFFER REGULATIONS IN EFFECT AT THE TIME OF SUBMISSION OF THE SITE DEVELOPMENT PLAN, WAIVER PETITION APPLICATION OR BUILDING/GRADING PERMIT.
- THERE ARE NO DISTURBANCES TO ENVIRONMENTAL FEATURES AS THERE ARE NO ENVIRONMENTAL FEATURES LOCATED ON THIS PROPERTY.
- A TRAFFIC STUDY IS NOT REQUIRED FOR THIS PROJECT.
- ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE LATEST STANDARDS AND SPECIFICATIONS OF HOWARD COUNTY PLUS MSHA STANDARDS AND SPECIFICATIONS IF APPLICABLE.
- THE CONTRACTOR SHALL NOTIFY THE DEPARTMENT OF PUBLIC WORKS/BUREAU OF ENGINEERING/CONSTRUCTION INSPECTION DIVISION AT (410) 313-1800 AT LEAST FIVE (5) WORKING DAYS PRIOR TO THE START OF WORK.
- THE CONTRACTOR SHALL NOTIFY "MISS UTILITY" AT 1-800-257-7777 AT LEAST 48 HOURS PRIOR TO ANY EXCAVATION WORK BEING DONE.
- TRAFFIC CONTROL DEVICES, MARKINGS AND SIGNING SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (MUTCD). ALL STREET AND REGULATORY SIGNS SHALL BE IN PLACE PRIOR TO THE PLACEMENT OF ANY ASPHALT.
- DRIVEWAY SHALL BE PROVIDED IN ACCORDANCE WITH HOWARD COUNTY STANDARD DETAIL R-6.06 IN THE VOL. IV DESIGN MANUAL.
- IN ACCORDANCE WITH SECTION 128.0 OF THE HOWARD COUNTY ZONING REGULATIONS, BAY WINDOWS, CHIMNEYS OR EXTERIOR STAIRWAYS NOT MORE THAN 16 FEET IN WIDTH MAY PROJECT NOT MORE THAN 4 FEET INTO ANY SETBACKS, PORCHES OR DECKS, OPEN OR ENCLOSED MAY PROJECT NOT MORE THAN 10 FEET INTO THE FRONT OR REAR YARD SETBACK.
- THE CONTRACTOR SHALL NOTIFY THE FOLLOWING UTILITY COMPANIES OR AGENCIES AT LEAST FIVE (5) WORKING DAYS BEFORE STARTING WORK SHOWN ON THESE PLANS:
 STATE HIGHWAY ADMINISTRATION 410.531.9533
 BGE(CONTRACTOR SERVICES) 410.890.4620
 BGE(UNDERGROUND DAMAGE CONTROL) 410.787.9060
 MISS UTILITY 1.800.257.7777
 COLONIAL PIPELINE COMPANY 410.795.1390
 HOWARD COUNTY, DEPT. OF PUBLIC WORKS, BUREAU OF UTILITIES 410.313.4900
 HOWARD COUNTY HEALTH DEPARTMENT 410.313.2640
 AT&T 1.800.252.1133
 VERIZON 1.800.743.0033/410.224.9210
- ANY DAMAGE TO PUBLIC RIGHT-OF-WAYS, PAVING OR EXISTING UTILITIES WILL BE CORRECTED AT THE CONTRACTOR'S EXPENSE.
- TRASH AND RECYCLABLES COLLECTION WILL BE AT HARDING ROAD WITHIN 5' OF THE COUNTY ROADWAY.
- PROPERTY SUBJECT TO PRIOR DEPARTMENT OF PLANNING AND ZONING FILE NO'S: ECP-17-051, Pg. 9, F. 32.
- EXISTING UTILITIES ARE BASED ON FIELD LOCATION BY FISHER, COLLINS & CARTER, INC. IN MARCH 2017 AND SUPPLEMENTED WITH AVAILABLE COUNTY DATA.
- SHC ELEVATIONS ARE SHOWN ARE LOCATED AT THE PROPERTY LINE. SEE SHC TABLE, SHEET 2.
- SURETY FOR THE LANDSCAPING IN THE TOTAL AMOUNT OF \$900.00 WILL BE POSTED AT THE TIME OF BUILDING PERMIT FOR LOT 1 IN THE AMOUNT OF \$720.00 AND FOR LOT 2 IN THE AMOUNT OF \$180.00.

OPERATION AND MAINTENANCE SCHEDULE FOR MICRO-BIORETENTION AREAS (M-6)

- 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.
- The owner shall replace a plant in the spring and in the fall 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.
- 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.
- The owner shall correct soil erosion on an as needed basis, with a minimum of once per month and after each heavy storm.



SITE ANALYSIS DATA CHART	
A.	TOTAL AREA OF THIS SUBMISSION = 1.76 AC
B.	LIMIT OF DISTURBED AREA = 1.06 AC (SITE) (26,363 SQ.FT. LOT 1 & 19,087 SQ.FT. LOT 2)
C.	PRESENT ZONING DESIGNATION = R-20 (PER 10/06/2013 COMPREHENSIVE ZONING PLAN)
D.	PROPOSED USE: RESIDENTIAL
E.	PREVIOUS HOWARD COUNTY FILES: 24-4999-D; ECP-17-051; PB9, PG32
F.	TOTAL AREA OF FLOODPLAIN LOCATED ON-SITE = 0.00 AC
G.	TOTAL AREA OF STEEP SLOPES = 0.31 AC (MODERATED STEEP SLOPES: 15%-24.9% = 0.30 AC) (STEEP SLOPES: 25% OR GREATER = 0.01 AC)
H.	TOTAL AREA OF WETLANDS (INCLUDING BUFFERS) = 0 AC
I.	TOTAL AREA OF STREAM (INCLUDING BUFFERS) = 0 AC
J.	TOTAL AREA OF FOREST TO BE RETAINED = 0 AC (LOT 1 IS EXEMPT SINCE IT IS LESS THAN 40,000 SQ.FT. AND A DECLARATION OF INTENT FOR CLEARING OF LESS THAN 20,000 SQ.FT. OF FOREST WILL BE UTILIZED FOR LOT 2)
K.	TOTAL GREEN OPEN AREA = 1.55 AC
L.	TOTAL IMPERVIOUS AREA = 0.21 AC
M.	TOTAL AREA OF ERODIBLE SOILS = 0 AC

FISHER, COLLINS & CARTER, INC.
 CIVIL ENGINEERING CONSULTANTS & LAND SURVEYORS
 CENTRAL SERVICE OFFICE: 1072 WILSON NATIONAL PIKE
 ELKTON CITY, MARYLAND 21828
 (410) 461-2895

ENGINEER'S CERTIFICATE
 "I certify that this plan for sediment and erosion control represents a practical and workable plan based on my personal knowledge of the site conditions and that it was prepared in accordance with the requirements of the Howard Soil Conservation District."
 Signature of Engineer: *Stephan J. Tuite*
 Date: 1/31/18

DEVELOPER'S CERTIFICATE
 "I/We certify that all development and construction will be done according to this plan for sediment and erosion control, and that all responsible personnel involved in the construction project will have a Certificate of Attendance at a Department of the Environment Approved Training Program for the Control of Sediment and Erosion before beginning the project. I also authorize periodic on-site inspection by the Howard Soil Conservation District."
 Signature of Developer: *John R. Roberts*
 Date: 4/18/18

This development plan is approved for soil erosion and sediment control by the HOWARD SOIL CONSERVATION DISTRICT.
 Signature of Howard SCD: *John R. Roberts*
 Date: 4/18/18

APPROVED: DEPARTMENT OF PLANNING AND ZONING
 Signature: *Stephan J. Tuite*
 Date: 4-2-18
 Director - Department of Planning and Zoning
 Signature: *John R. Roberts*
 Date: 4-2-18
 Chief, Division of Land Development
 Signature: *John R. Roberts*
 Date: 3-27-18
 Chief, Development Engineering Division

"PROFESSIONAL CERTIFICATION, I HEREBY CERTIFY 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. 38386, EXPIRATION DATE: JANUARY 12, 2020."
 STATE OF MARYLAND
 PROFESSIONAL ENGINEER
 SIGNATURE: *Stephanie J. Tuite*
 DATE: 1/31/18

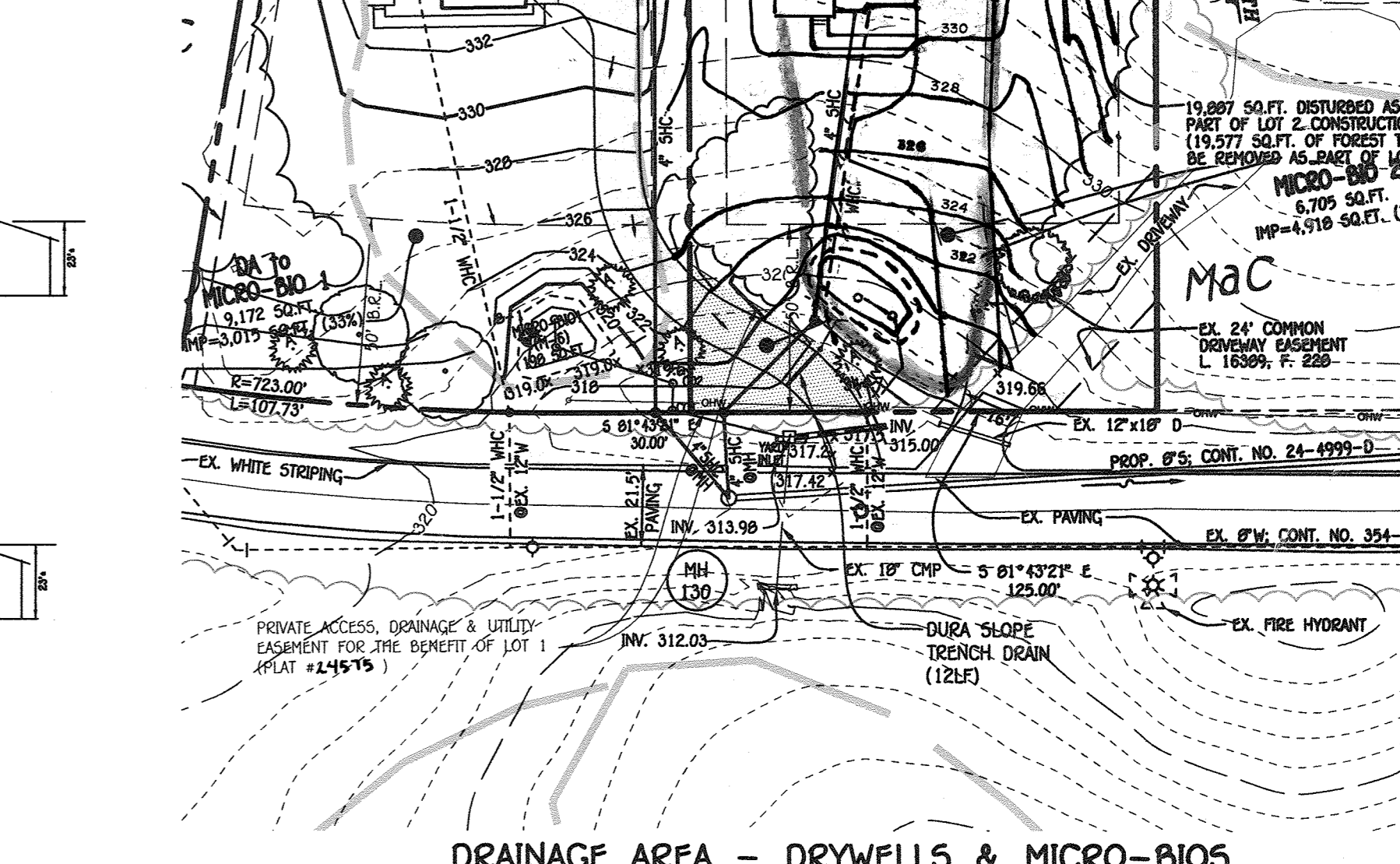
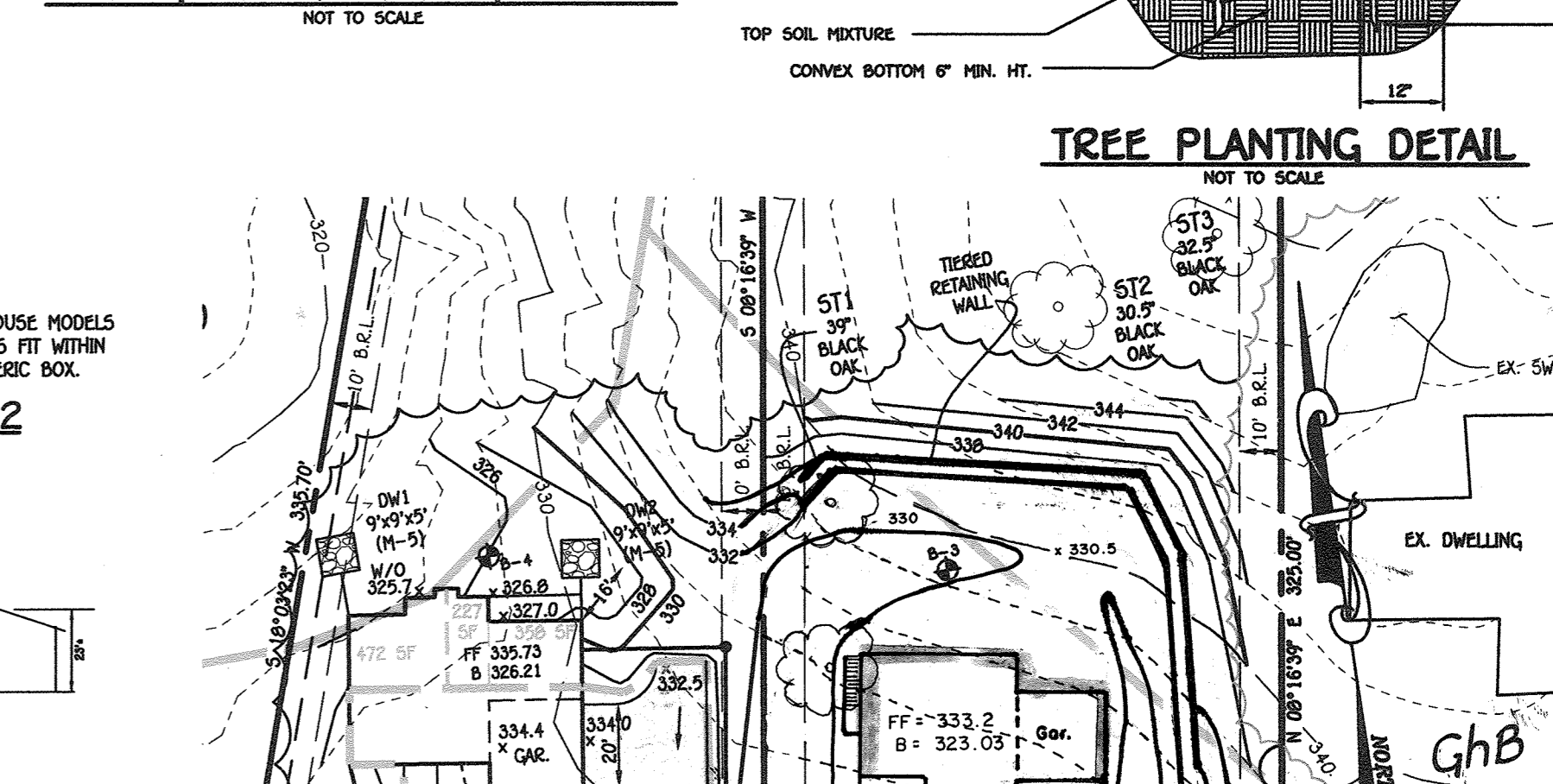
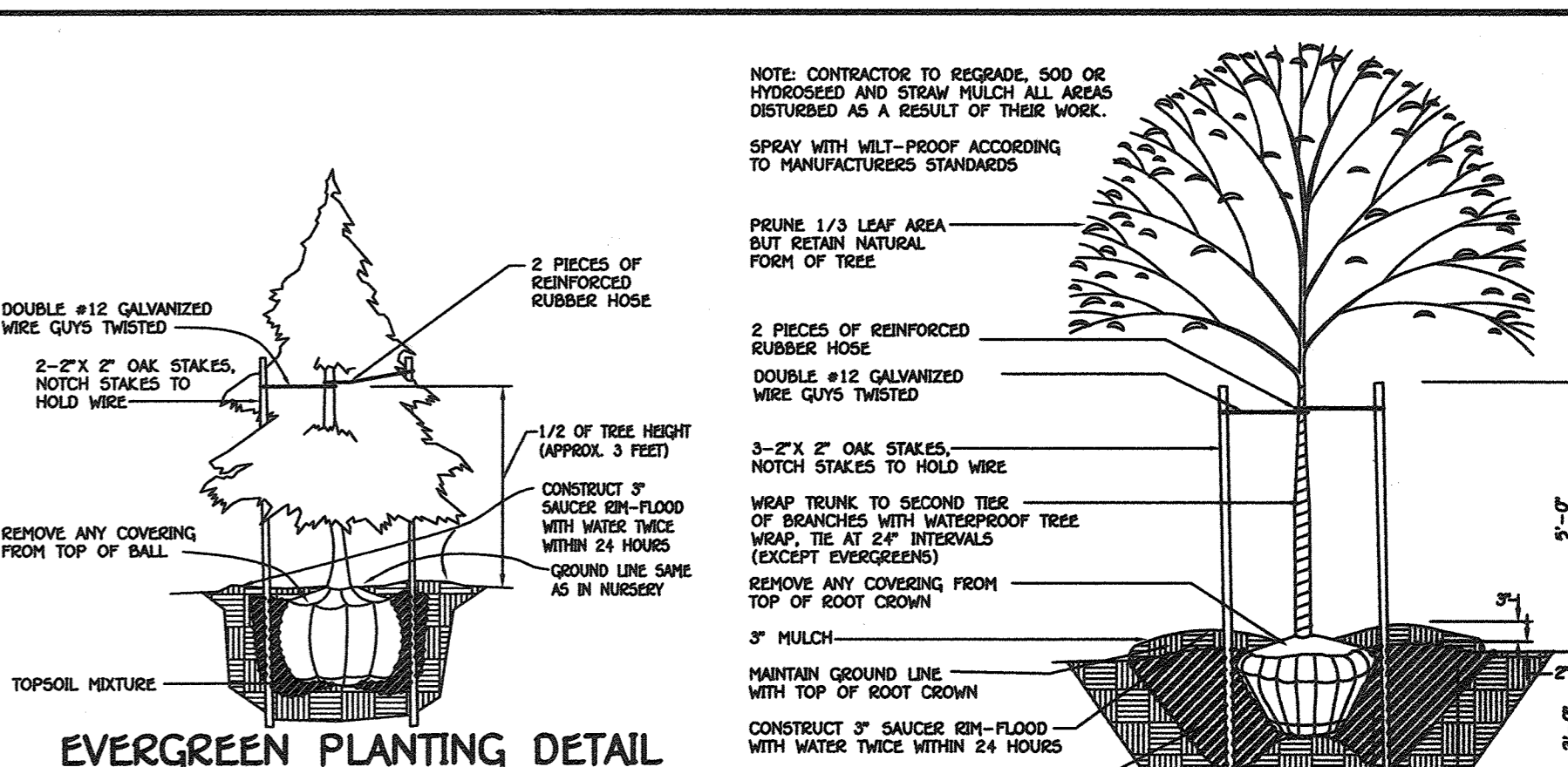
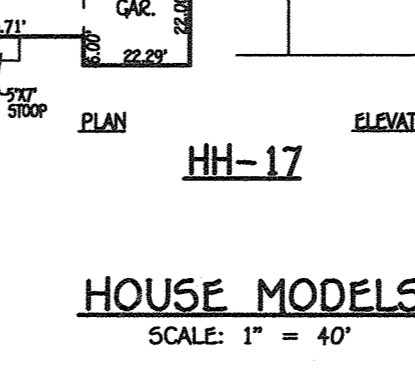
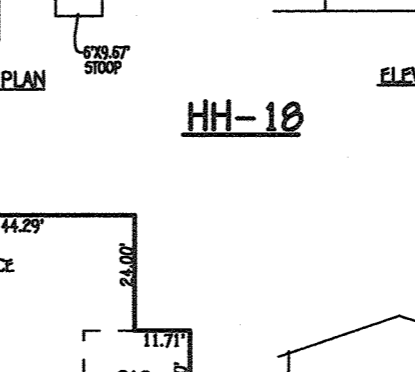
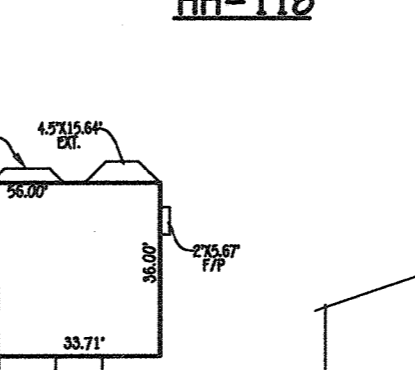
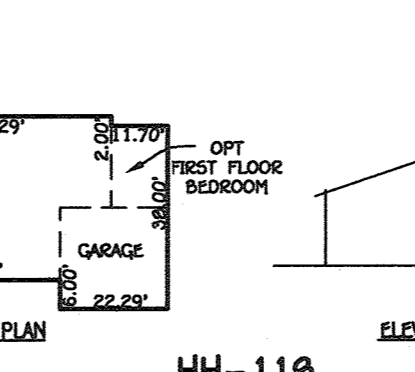
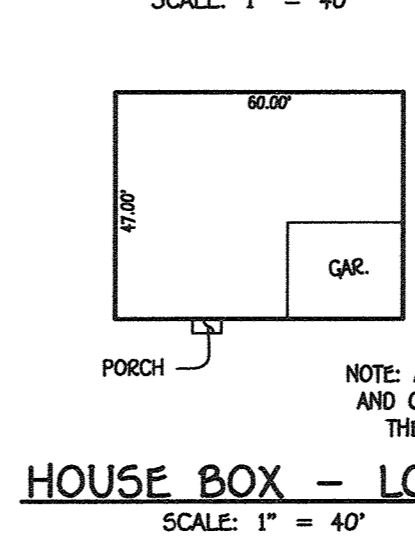
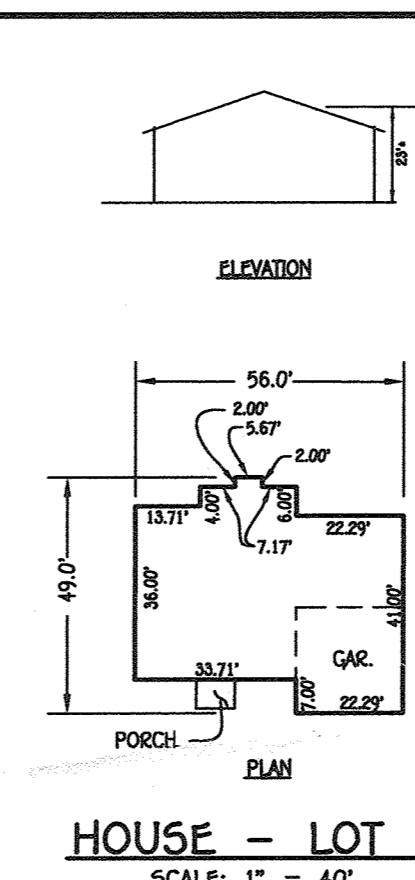
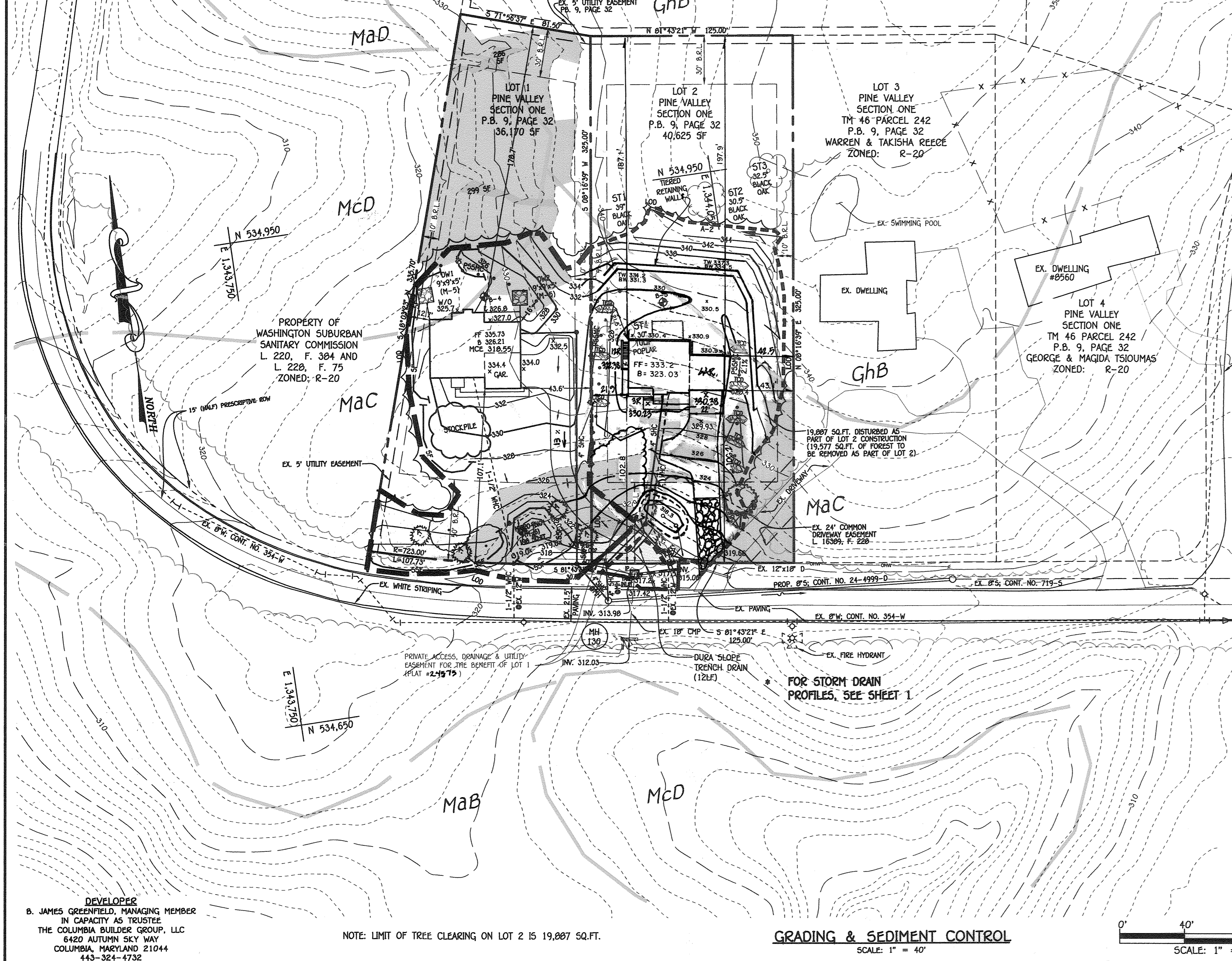
Address Chart	
Parcel No.	Lot No.
242	1
242	2

PROJECT	SECTION/AREA	PARCEL
PINE VALLEY, SECTION ONE, LOTS 1 & 2	SECTION ONE	242

PLAT NOS.	BLOCK NO.	ZONE	TAX MAP	ELEC. DIST.	CENSUS TR.
PB. 9, F. 32	11	R-20	46	SIXTH	606805

TITLE SHEET
 ZONED R-20
 TAX MAP No.: 46 GRID No.: 11 PARCEL No.: 242
 SIXTH ELECTION DISTRICT HOWARD COUNTY, MARYLAND
 SCALE: AS SHOWN DATE: JANUARY, 2018
 SHEET 1 OF 3
 SDP-17-048

SYMBOL	DESCRIPTION
342	EXISTING CONTOUR 2' INTERVAL
340	EXISTING CONTOUR 10' INTERVAL
X	EXISTING FENCE
- - -	EXISTING STORM DRAIN LINE
- - -	EXISTING WATER LINE
STEEP SLOPES 15%-24.9%	STEEP SLOPES 15%-24.9%
STEEP SLOPES 25% OR GREATER	STEEP SLOPES 25% OR GREATER
342	PROPOSED CONTOUR 2' INTERVAL
340	PROPOSED CONTOUR 10' INTERVAL
x 329.14	SPOT ELEVATION
- - -	PROPOSED PAVING
- - -	EXISTING TRESILINE
- - -	PROPOSED TRESILINE
B.R.L.	BUILDING RESTRICTION LINE
- - -	LIMIT OF DISTURBANCE
55'	SUPER SILT FENCE
SF	SILT FENCE
SC	STABILIZED CONSTRUCTION ENTRANCE
- - -	DRAINAGE AREA DIVIDE
- - -	PERMANENT SOIL STABILIZATION MATTING
- - -	EARTH DIKE
A-2	TEMPORARY CHECK DAM



LOT	ELEVATION AT MAIN	ELEVATION AT ROW	SLOPE OF SHC	ELEVATION AT CLEANOUT	SLOPE OF SHC	ELEVATION AT HOUSE	MCE
1	311.79	312.35	5%	322.30	2%	323.00	318.55
2	311.79	312.35	5%	314.77	5%	318.27	318.57

SOIL	NAME	CLASS	K FACTOR
GhB	Glenside-Urban Land Complex, 0 to 8 percent slopes	B	0.20
MaC	Manor loam, 8 to 15 percent slopes	B	0.24
McD	Manor loam, 8 to 15 percent slopes, very rocky	B	0.24

Soil Map Number: 23

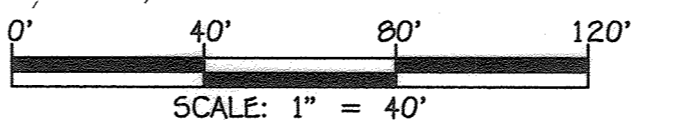
NUMBER	TREE SIZE & TYPE	CONDITION
ST1	3" BLACK OAK	FAIR
ST2	30" BLACK OAK	GOOD
ST3	32" BLACK OAK	GOOD
ST4	30" TULIP POPLAR	GOOD

QTY.	KEY	NAME	SIZE
1	○	CORNUS FLORIDA (FLOWERING DOGWOOD)	1" - 1.5" CALIPER FULL CROWN, B&B
2	○	PRUNUS SARGENTII (SARGENT CHEBERRY)	2.5" - 3" CALIPER FULL CROWN, B&B
5	○	ILEX 'NELLIE R. STEVENS' (NELLIE R. STEVENS HOLLY)	5"-6" HT. B&B

TOTAL: 2 SHADE TREES, 1 ORNAMENTAL TREE, & 5 EVERGREEN TREES

NOTE: STORM DRAIN TIE-IN FROM CLEANOUT TO YARD INLET TO BE PRIVATELY OWNED AND MAINTAINED WITHIN THE COUNTY RIGHT OF WAY.

GRADING & SEDIMENT CONTROL
SCALE: 1" = 40'



DEVELOPER
B. JAMES GREENFIELD, MANAGING MEMBER
IN CAPACITY AS TRUSTEE
THE COLUMBIA BUILDER GROUP, LLC
6420 AUTUMN SKY WAY
COLUMBIA, MARYLAND 21044
443-324-4732

ENGINEER'S CERTIFICATE
"I certify that this plan for sediment and erosion control represents a practical and workable plan based on my personal knowledge of the site conditions and that it was prepared in accordance with the requirements of the Howard Soil Conservation District."
Signature of Engineer: *Stephan J. Tuttle* 1/31/18
Date: 1/31/18

DEVELOPER'S CERTIFICATE
"I/We certify that all development and construction will be done according to this plan for sediment and erosion control, and that all responsible personnel involved in the construction project will have a Certificate of Attendance at a Department of the Environment Approved Training Program for the Control of Sediment and Erosion before beginning the project. I also authorize periodic on-site inspection by the Howard Soil Conservation District."
Signature of Developer: *R. J. Fisher* 1/31/18
Date: 1/31/18

This development plan is approved for soil erosion and sediment control by the HOWARD SOIL CONSERVATION DISTRICT.
Signature of Howard SCD: *John R. Kretzer* 1/18/18
Date: 1/18/18

APPROVED: DEPARTMENT OF PLANNING AND ZONING
Director - Department of Planning and Zoning: *Walter J. J...* 4-2-18
Date: 4-2-18
Chief, Division of Land Development: *...* 3-27-18
Date: 3-27-18
Chief, Development Engineering Division: *...*

"PROFESSIONAL CERTIFICATION. I HEREBY CERTIFY 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. 38386, EXPIRATION DATE: JANUARY 12, 2020."
Signature: *Stephanie J. Tuttle* 1/31/18
Date: 1/31/18
Professional Engineer

Parcel No.	Lot No.	Street Address
242	1	10844 HARDING ROAD, LAUREL, MD 20723
242	2	10840 HARDING ROAD, LAUREL, MD 20723

PROJECT	SECTION/AREA	PARCEL
PINE VALLEY, SECTION ONE, LOTS 1 & 2	SECTION ONE	242

PLAT NOS.	BLOCK NO.	ZONE	TAX MAP	ELEC. DIST.	CENSUS TR.
PB. 9, F. 32	11	R-20	46	SIXTH	606805

SITE DEVELOPMENT PLAN
PINE VALLEY, SECTION ONE LOTS 1 & 2
ZONED R-20
TAX MAP No.: 46 GRID No.: 11 PARCEL No.: 242
SIXTH ELECTION DISTRICT HOWARD COUNTY, MARYLAND
SCALE: AS SHOWN DATE: JANUARY, 2018
SHEET 2 OF 3

