

SUPPLEMENTAL PLAN LANDSCAPE, FOREST CONSERVATION, TOPOGRAPHIC AND SOILS

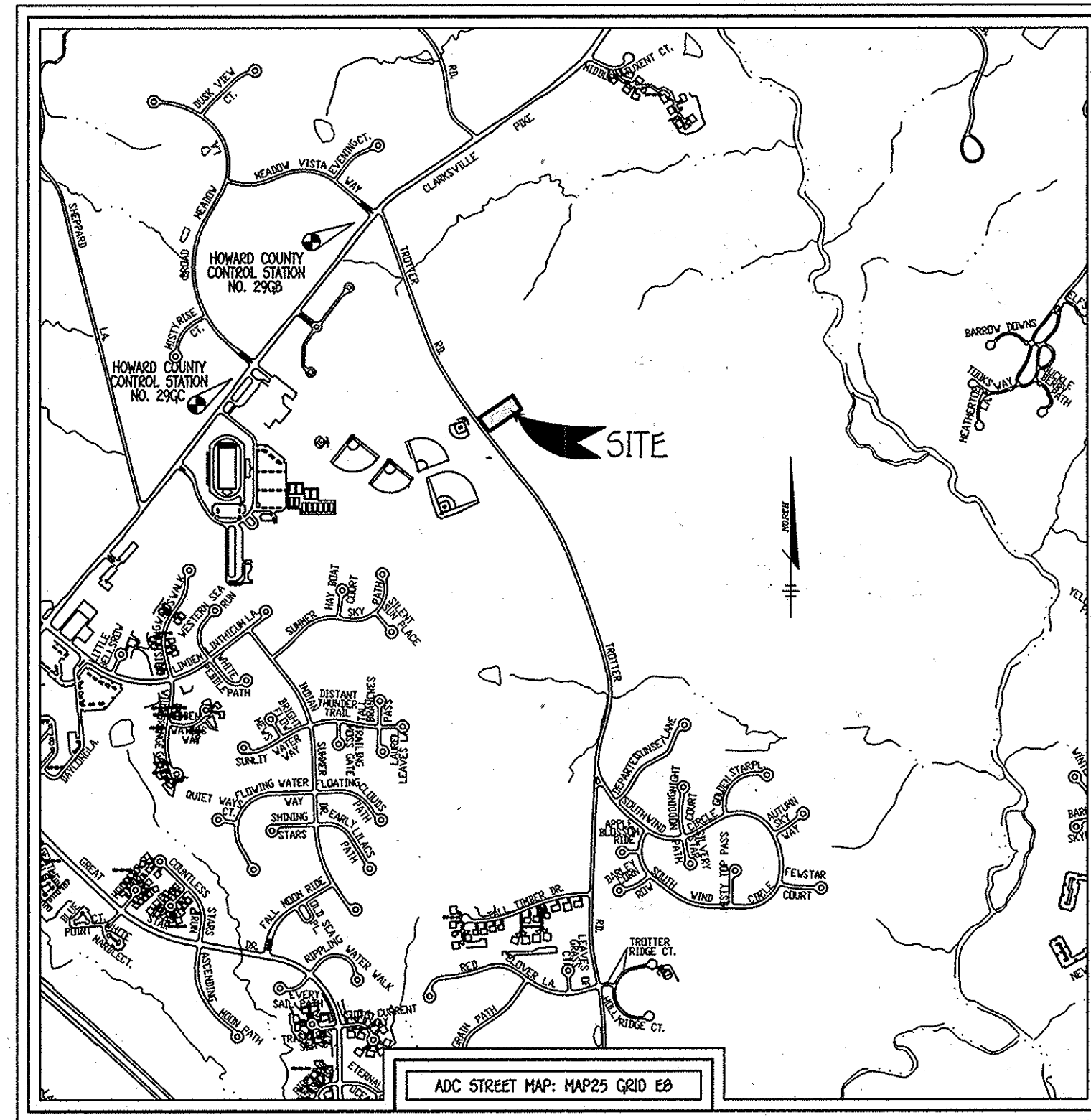
CRISWOOD MANOR, SECTION 4, LOTS 21 & 22

TAX MAP No. 29 GRID No. 20 PARCEL Nos. 88
FIFTH ELECTION DISTRICT HOWARD COUNTY, MARYLAND

LEGEND			
SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
	EXISTING 2' CONTOURS		PROPOSED CONTOUR
	EXISTING 10' CONTOURS		SPOT ELEVATION
	SOIL LINES AND TYPE		LIMITS OF DISTURBANCE
	EXISTING TREELINE		PROPOSED TREELINE
	15% TO 24.9% STEEP SLOPES		EXISTING & PROPOSED PAVING
	25% AND GREATER STEEP SLOPES		BORING (PERC) TEST HOLE
	100 YEAR PUBLIC FLOODPLAIN, DRAINAGE AND UTILITY EASEMENT		SILT FENCE
	WETLAND AREA		EROSION CONTROL MATTING
	25' WETLAND BUFFER		SUPER SILT FENCE
	STREAM BANK BUFFER		STABILIZES CONSTRUCTION ENTRANCE
	100 YEAR FLOODPLAIN LINE		DRAINAGE AREA DIVIDE
	SPECIMEN TREE		TREE PROTECTION

General Notes:

- Subject Property Zoned R-20 Per 10/06/13 Comprehensive Zoning Plan.
- Coordinates Based on NAD '83, Maryland Coordinate System As Projected By Howard County Geodetic Control Stations No. 35AA And No. 35BB.
- This Plan is Based on Field Run Monumented Boundary Survey Performed On Or About July, 2014 By Fisher, Collins And Carter, Inc. The Existing Topography Is Taken From A Field Run Topographic Survey With Maximum Two Foot Contour Intervals Prepared By Fisher, Collins And Carter, Inc. Dated July, 2014 And Supplemented With Howard County GIS Topography At 2' Contour Interval Interpolated For 2' Contour Interval.
- B.R.L. Denotes Building Restriction Line.
- Denotes Iron Pin Set Capped "F.C.C. 106".
- Denotes Iron Pipe Or Iron Bar Found.
- Denotes Angular Change In Bearing Of Boundary Or Rights-Of-Way.
- Denotes Concrete Monument Set With Aluminum Plate "F.C.C. 106".
- Denotes Concrete Monument Or Stone Found.
- All Areas Are More Or Less (±).
- For Flag Or Pipe Stem Lots, Refuse Collection, Snow Removal And Road Maintenance To Be Provided At The Junction Of Pipe/Flag Stem And The Road R/W And Not On The Flag/Pipe Stem Driveway.
- Driveways Shall Be Provided Prior To Issuance Of A Building Permit To Insure Safe Access For Fire And Emergency Vehicles Per The Following (Minimum) Requirements:
 - Width - 12 Feet (15 Feet Serving More Than One Residence);
 - Surface - Six (6") Inches Of Compacted Crusher Run Base With Tar And Chip Coating, (1 - 1/2" Minimum);
 - Geometry - Maximum 15% Grade, Maximum 10% Grade Change And 45-Foot Turning Radius;
 - Structures (Culverts/Bridges) - Capable Of Supporting 25 Gross Tons (H25-Loading);
 - Drainage Elements - Capable Of Safely Passing 100 Year Flood With No More Than 1 Foot Depth Over Surface;
 - Structure Clearances - Minimum 12 Feet;
 - Maintenance - Sufficient To Insure All Weather Use.
- Distances Shown Are Based On Surface Measurement And Not Reduced To NAD '83 Grid Measurement.
- Property Subject To Prior Department Of Planning And Zoning File No's: SDP-12-068, ECP-14-000 And P.B. 6, PG. 49.
- No Historic Structures Or Cornerstones Exist On The Subject Property.
- There Is An Existing Dwelling(s)/Structure(s) Located On Lot 21 To Remain. No New Buildings, Extensions Or Additions To The Existing Dwelling/Structure Are To Be Constructed At A Distance Less Than The Zoning Regulation Requirements.
- Although A Septic Easement Was Previously Set Aside, Septic Was Never Installed, Therefore No Abandonment Is Required. Existing Well Has Been Properly Abandoned. Documentation That The Private Well Has Been Properly Abandoned Is Required Prior To Plat Recordation.
- There Is No 100 Year Floodplain Located In This Subdivision.
- This Property Is Located Within The Metropolitan District And Will Be Served By Public Water And Sewer House Connections.
- Water Is Public. Sewer Is Public. Connections Will Be Made To Water & Sewer Mains Constructed Under Contract # 34-4805-D.
- Traffic Study Dated May, 2014, Prepared By Mars Group Was Approved On November 10, 2014.
- No Forest Exists On-Site Based On Letter Prepared By Fisher, Collins & Carter, Inc. Dated June 2014. The Forest Conservation Requirements Of Section 16.1200 Of The Howard County Code And Forest Conservation Act For This Subdivision Will Be Fulfilled By Providing A Fee-In-Lieu Payment Of \$29.64 Based On 0.22 Acres x \$135.00/Sq. Ft. For Lot 22.
- Public Water And Sewerage Allocations Will Be Granted At Time Of Issuance Of The Building Permit If Capacity Is Available At That Time.
- Approval Of A Site Development Plan Is Required For The Development Of All Residential Lots Within This Subdivision Prior To Issuance Of Any Grading Or Building Permits For New House Construction In Accordance With Section 16.155 Of The Subdivision And Land Development Regulations.
- A Letter Of Findings Dated October 24, 2011 For Wetland Delineation For This Subdivision Was Prepared By Klebasko Environmental, LLC. There Are No Wetlands Located On-Site.
- Open Space Requirements Are Provided By A Fee-In-Lieu Payment Of \$1,500.00.
- 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 Housing Unit Types And The Directional Orientation Of The Proposed Houses.
- This Plan Is In Compliance With The Amended Fifth Edition Of The Subdivision And Land Development Regulations Per Council Bill 32-2013. 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.
- Noise Study Is Not Required For This Subdivision Per Howard County Design Manual, Volume III, Section 5.2(f).
- A Community Meeting Was Conducted On April 1, 2014 For The Purpose Of The Developer To Provide Information To The Community Regarding The Proposed Residential Development And To Allow The Community To Ask Questions And To Make Comments Per Section 16.128(d) Of The Howard County Subdivision And Land Development Regulations.
- Landscaping For Lot 22 Is Provided In Accordance With Section 16.124 Of The Howard County Code And The Landscape Manual. A Landscape Survey In The Amount Of \$2,100 Based On 4 Shade Trees @ \$300/Shadow Tree & 6 Evergreens @ \$150/Evergreen Is To Be Bonded At The SDP Stage.
- 24' Private Use-In-Common Shared Driveway And Stormwater Management Easement And Maintenance Agreement For Lots 21 And 22 Shall Be Recorded Simultaneously With The Plat.
- Stormwater Management Will Be In Accordance With HDE Storm Drain Design Manual, Volumes I & III, Revised 2009. Use Of Five (5) M-5 Dry Wells, N-1 Disconnection Of Rooftop Runoff, And N-2 Disconnection Of Non-Rooftop Runoff Are Proposed For This Project. All SWM Practices Are To Be Privately Owned And Maintained By The Individual Property Owners.
- 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) 313-1880 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 Signaling 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.
- Street Light Placement And The Type Of Fixture And Pole Shall Be In Accordance With The Howard County Design Manual, Volume III (1993), If Applicable. A Minimum Spacing Of 20' Shall Be Maintained Between Any Streetlight And Any Tree.
- 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 Sleeve (12 Gauge) 3" Long. A Galvanized Steel Pole Cap Shall Be Mounted On Top Of Each Post.
- Existing Utilities Are Based On Available County Records.
- Road Improvements Associated With This Plan Include Curb And Gutter And Sidewalk Only. There Are Existing Trees Located Along Trotter Road And No Road Intersections Are Located In Close Proximity To The Property, Therefore Street Lights Are Not Proposed. Driveway Entrance To Be Constructed Per Howard County Standard Detail R-6.01.
- Existing House On Lot 21 Site In Front Of And Approximately 5 Feet Higher Vertically Than The Proposed House On Proposed Lot 22. A Scenic Roads Exhibit Has Not Been Provided Since It Will Showing Nothing More Than Can Be Seen From The Road As It Is Viewed Today.
- This Plan Is Subject To WP-15-090, Approved On January 30, 2015 To Waive Section 16.132(a)(2)(i) Requiring Construction Of Road Improvements On One Side Of A Local Road Fronting The Proposed Subdivision To Current Standards And Section 16.134(a) Requiring The Construction Of Sidewalks. Approval Is Subject To The Following Conditions:
 - The Developer Shall Provide A Fee-In-Lieu For The Required Road Improvements For The Street Lights, Sidewalks, And Paving Section For The Public Road Frontage Of The Subject Property Along Trotter Road. Payment Of The Fee-In-Lieu Shall Be Provided And Placed In An Appropriate Account Designated By The Development Engineering Division With The Processing Of F-14-125. (See DED Comments Dated 1/12/15)
 - Compliance With Comments Issued For The Final Plat, F-14-125.
 - See Attached Recommendation From The Public School System For A School Bus Waiting Area.



VICINITY MAP
SCALE: 1" = 1200'

BENCHMARK INFORMATION	
B.M.# 29GB - HOWARD COUNTY CONTROL STATION #13CA - HORIZONTAL - (NAD '83)	E 1,333,265.8543 ELEVATION = 455.965 - VERTICAL - (NAVD '88)
B.M.# 29GC - HOWARD COUNTY CONTROL STATION #071A - HORIZONTAL - (NAD '83)	N 565,530.8130 E 1,332,248.7022 ELEVATION = 490.718 - VERTICAL - (NAVD '88)

FOREST CONSERVATION WORKSHEET VERSION 1.0

BASIC SITE DATA:		0.56 AC			
A. TOTAL TRACT AREA.....		0.56 AC			
B. AREA WITHIN 100 YEAR FLOODPLAIN.....		0.56 AC			
C. NET TRACT AREA.....		0.56 AC			
LAND USE CATEGORY: (from table 3.2.1, page 40, Manual)					
AREA	MDR	IDA	HDR	MPD	CIA
INFORMATION FOR CALCULATIONS:					
D. AFFORESTATION THRESHOLD.....	0.15% x D =	0.08			
E. FOREST CONSERVATION THRESHOLD.....	0.20% x D =	0.11			
EXISTING FOREST COVER:					
F. EXISTING FOREST COVER WITHIN NET TRACT AREA.....		0.00			
G. AREA OF FOREST ABOVE CONSERVATION THRESHOLD.....		0.00			
BREAK EVEN POINT:					
H. FOREST RETENTION ABOVE THRESHOLD WITH NO MITIGATION.....		0.00			
I. CLEARING PERMITTED WITHOUT MITIGATION.....		0.00			
PROPOSED FOREST CLEARING:					
J. TOTAL AREA OF FOREST TO BE CLEARED.....		0.00			
K. TOTAL AREA OF FOREST TO BE RETAINED.....		0.00			
PLANTING REQUIREMENTS:					
L. REFORESTATION FOR CLEARING ABOVE CONSERVATION THRESHOLD.....		0.00			
M. REFORESTATION FOR CLEARING BELOW CONSERVATION THRESHOLD.....		0.00			
N. CREDIT FOR RETENTION ABOVE CONSERVATION THRESHOLD.....		0.00			
P. TOTAL REFORESTATION REQUIRED.....		0.00			
Q. TOTAL AFFORESTATION REQUIRED.....		0.08			
R. TOTAL REFORESTATION AND AFFORESTATION REQUIRED.....		0.08			
S. EXCESS FOREST CREDIT.....		0.00			

SITE ANALYSIS DATA CHART

A. TOTAL AREA OF THIS SUBMISSION IS 1.07 AC.±
B. LIMIT OF DISTURBED AREA = 0.56 AC.±
C. PRESENT ZONING DESIGNATION = R-20 (PER 10/06/2013 COMPREHENSIVE ZONING PLAN)
D. PROPOSED USE: RESIDENTIAL PREVIOUS HOWARD COUNTY FILES: PB6, PG 49; ECP-12-017; SDP-12-068; ECP-14-000
F. TOTAL AREA OF FLOODPLAIN LOCATED ON SITE = 0.00 AC
G. TOTAL AREA OF SLOPES IN EXCESS OF 15% = 0.00 AC
H. TOTAL AREA OF WETLANDS (INCLUDING BUFFER) = 0.00 AC
I. TOTAL AREA OF STREAM (INCLUDING BUFFER) = 0.00 AC
J. TOTAL AREA OF EXISTING FOREST = 0.00 AC
K. TOTAL AREA OF FOREST TO BE RETAINED = 0.00 AC
L. TOTAL GREEN OPEN AREA = 0.05 AC
M. TOTAL IMPERVIOUS AREA = 0.22 AC
N. TOTAL AREA OF ERODIBLE SOILS = 0.00 AC.±

TITLE SHEET CRISWOOD MANOR

SECTION 4, LOTS 21 & 22
TAX MAP #29 GRID NO. 20 PARCEL #88
FIFTH ELECTION DISTRICT HOWARD COUNTY, MARYLAND
ZONED: R-20
SCALE: AS SHOWN DATE: JANUARY, 2015
SHEET 1 OF 2

SHEET INDEX	
SHEET NO.	DESCRIPTION
1	TITLE SHEET
2	SUPPLEMENTAL PLAN

SOILS LEGEND				
SOIL	NAME	CLASS	K FACTOR	
GgB	Glenelg loam, 3 to 8 percent slopes	B	0.20	

STORMWATER MANAGEMENT PRACTICES				
LOT No.	ADDRESS	DRY WELLS (M-5) (NUMBER)	GRASS SWALE (M-8) (NUMBER)	ROOFTOP DISCONNECTION (N-1) (NUMBER)
21	5517 TROTTER ROAD	2	0	2
22	5521 TROTTER ROAD	3	1	3

STORMWATER MANAGEMENT SUMMARY			
AREA ID.	ESDV REQUIRED CU.FT.	ESDV PROVIDED CU.FT.	REMARKS
SITE	778	786	DRY WELLS (M-5), GRASS SWALE (M-8), AND ROOFTOP DISCONNECTIONS (N-1)
TOTAL	778	786	

NOTE: SITE CONTAINS AN EXISTING HOUSE WHICH WAS BUILT UNDER SDP-12-068. SINCE SOME OF THE STORMWATER MANAGEMENT HAS BEEN REVISED UNDER THIS PLAN, ALL IMPROVEMENTS (EXISTING & PROPOSED) HAVE BEEN INCLUDED WITHIN THIS REPORT. THIS REPORT DOES NOT INCLUDE PREVIOUS ROOFTOP DISCONNECTIONS THAT ARE REMAINING ON-SITE. DRYWELLS HAVE BEEN OVERSIZED TO ACCOUNT FOR AREAS OF EXISTING DRIVEWAY PAVING WHICH TREATMENT IS NOT POSSIBLE TO BE PROVIDED DUE TO STEEPNESS OF DOWNHILL SLOPE FROM DRIVEWAY.

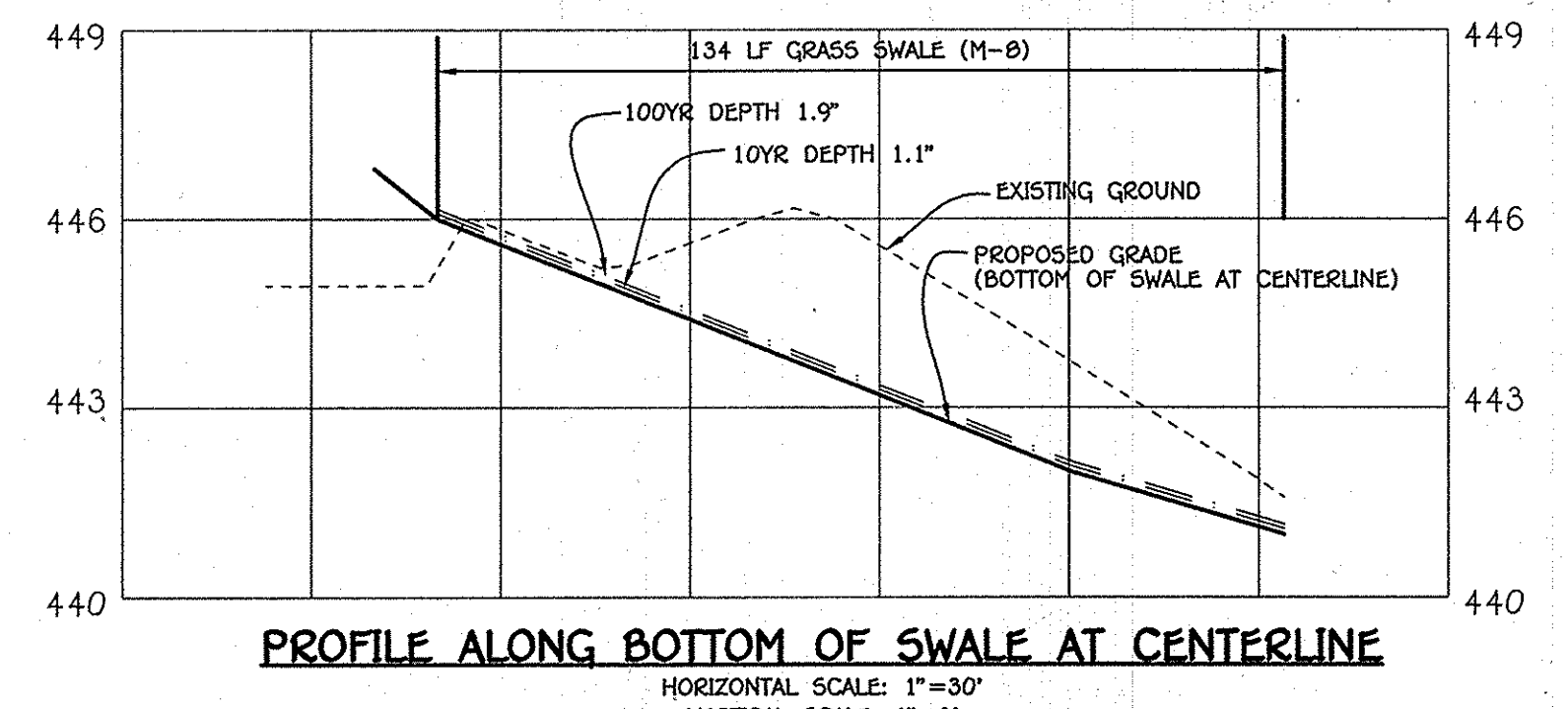
GROSS AREA = 1.07 ACRES
LOD = 0.56 ACRES
RCN = 55
TARGET Pe = 1.6"

OPERATION & MAINTENANCE SCHEDULE FOR PRIVATELY OWNED AND MAINTAINED OPEN CHANNEL SYSTEMS - GRASS SWALES, (M-8)

- THE OPEN CHANNEL SYSTEM SHALL BE INSPECTED ANNUALLY AND AFTER MAJOR STORMS. INSPECTIONS SHALL BE PERFORMED DURING WET WEATHER TO DETERMINE IF THE FACILITY IS FUNCTIONING PROPERLY.
- THE OPEN CHANNEL SHALL BE MAINTAINED TO A MINIMUM OF 6 INCHES DURING THE GROWING SEASON TO MAINTAIN A MINIMUM GRASS HEIGHT OF LESS THAN 6 INCHES.
- WEEDS AND LITTER SHALL BE REMOVED DURING REGULAR MAINTENANCE OPERATIONS AND AS REQUIRED.
- VISIBLE SIGNS OF EROSION IN THE OPEN CHANNEL SYSTEM SHALL BE REPAIRED AS SOON AS IT IS NOTICED.
- REMOVE SILT IN THE OPEN CHANNEL SYSTEM WHEN IT EXCEEDS 25% OF THE ORIGINAL. INSPECT CHECK DAMS TWICE A YEAR FOR STRUCTURAL INTEGRITY. RESTORE CHECK DAMS TO ORIGINAL CONDITION AS APPROPRIATE.

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

1. MAINTENANCE OF AREAS RECEIVING DISCONNECTION RUNOFF IS CRUCIAL. NO DIFFERENCE THAN THAT REQUIRED FOR OTHER LAWN OR LANDSCAPED AREAS. THE AREAS RECEIVING RUNOFF SHOULD BE PROTECTED FROM FUTURE CONSTRUCTION OR DEVELOPMENT OF IMPROVEMENTS IN COMMERCIAL AREAS FOOT TRAFFIC SHOULD BE DEBARRED AS WELL.



PROFILE ALONG BOTTOM OF SWALE AT CENTERLINE
HORIZONTAL SCALE: 1"=30'
VERTICAL SCALE: 1"=3'

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

Material	Specification	Size	Notes
Plantings soil	see Appendix A, Table A.4	n/a	plantings are site-specific USDA soil types loamy sand or sandy loam; clay content <5%
Organic Content	loamy sand 60-85% compost 35-40% or sandy loam 30% coarse sand 30% compost 40%		
Mulch	shredded hardwood		aged 6 months, minimum
Pea gravel diaphragm	pea gravel ASTM-D-448	No. 8 or No. 9 (1/8" to 3/8")	
Curbin drain	ornamental stone, washed cobble	stone: 2" to 5"	
Geotextile		n/a	PE Type 1 nonwoven
Gravel (underdrains and infiltration berms)	ASTM M-43	No. 57 or No. Aggregates (3/8" to 3/4")	
Underdrain piping	F 750, Type PS 2B or ASTM M-219	4" to 6" rigid schedule 40 PVC or 60/35	slotted or perforated pipes; 3/8" perf. @ 6" on center, 4 holes per row; minimum of 2" of gravel over pipes; not necessary underneath 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 @ 28 days, normal weight. also-reinforced; reinforcing to meet ASTM-G15-60	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 sites or soil conditions requires design drawings sealed and approved by a professional structural engineer licensed in the State of Maryland - design to include meeting AC Code 308.0/9; vertical loading (D1-10 or H-20); allowable horizontal loading (based on soil pressures); and analysis of potential cracking
Sand	ASTM-N-6 or ASTM-C-33	0.075" to 0.04"	Sand substitutions such as Dabbase and Gytstone (ASTM) #10 are not acceptable. No calcium chlorinated or olefinic sand substitutions are acceptable. No "rock dust" can be used for sand.

OWNER/DEVELOPER
THOMAS V. SAMUEL & SISSY M. AMBLY
5517 TROTTER ROAD
CLARKSVILLE, MARYLAND 21029
301-552-0005

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING

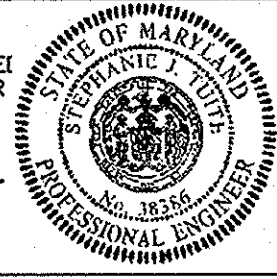
Chel Edwards
Chief, Division of Land Development
Date: 2-20-15

Chel Edwards
Chief, Development Engineering Division
Date: 2-19-15

PROFESSIONAL CERTIFICATION

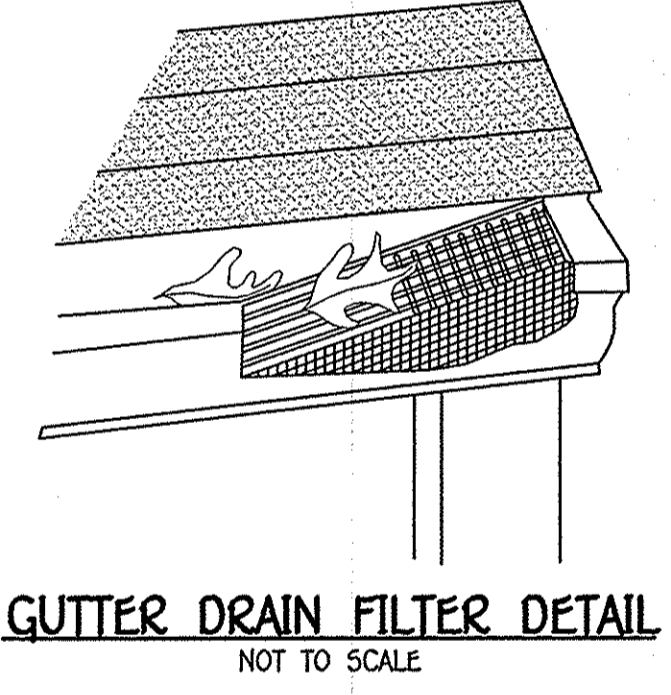
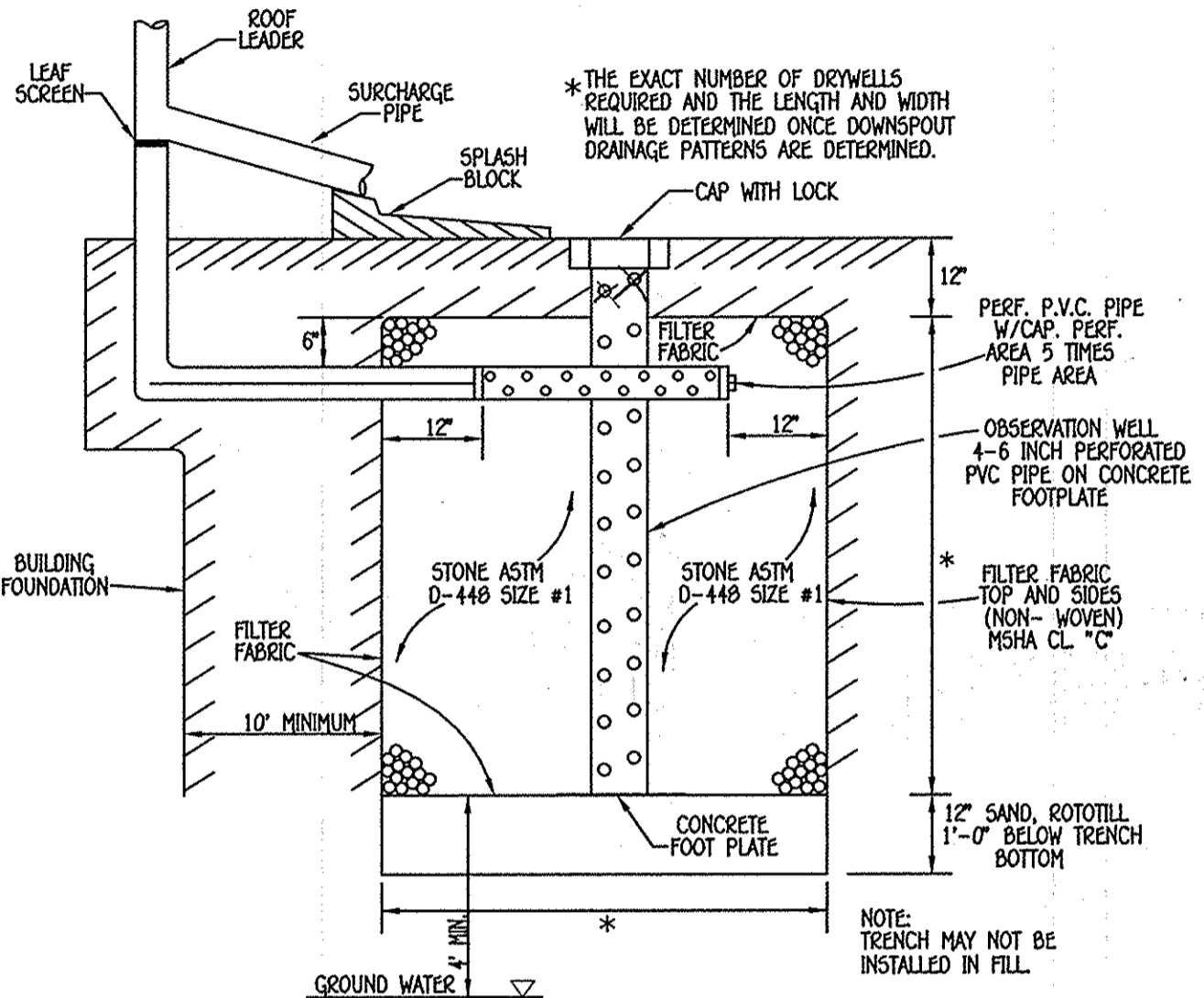
I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND, LICENSE NO. 38386, EXPIRATION DATE: 01/31/2016.

Stephanni Suter
Signature of Professional Engineer
Date: 2/2/15



FISHER, COLLINS & CARTER, INC.
CIVIL ENGINEERING CONSULTANTS & LAND SURVEYORS
CENTRAL SOURCE OFFICE PARK 10725 BALDORNE NATIONAL PIKE
ALLOTT CITY, MARYLAND 21042
(410) 461-2895

LEGEND			
SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
	EXISTING 2' CONTOURS		PROPOSED CONTOUR
	EXISTING 10' CONTOURS		SPOT ELEVATION
	SOILS LINES AND TYPE		LIMITS OF DISTURBANCE
	EXISTING TREELINE		PROPOSED TREELINE
	15% TO 24.9% STEEP SLOPES		EXISTING & PROPOSED PAVING
	25% AND GREATER STEEP SLOPES		BORING (PERC) TEST HOLE
	100 YEAR PUBLIC FLOODPLAIN, DRAINAGE AND UTILITY EASEMENT		SILT FENCE
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	100 YEAR FLOODPLAIN LINE		DRAINAGE AREA DIVIDE
	SPECIMEN TREE		TREE PROTECTION



- ### 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 THIS SITE DEVELOPMENT PLAN.

DRYWELL NO.	AREA OF ROOF PER DOWN SPOUT	VOLUME REQUIRED	VOLUME PROVIDED	AREA OF TREATMENT	L	D	W
21 (1)	783 SQ. FT.	100 C.F.	128 C.F.	100%*	8'	8'	5'
21 (2)	765 SQ. FT.	97 C.F.	128 C.F.	100%*	8'	8'	5'
22 (1)	812 SQ. FT.	103 C.F.	128 C.F.	100%*	8'	8'	5'
22 (2)	909 SQ. FT.	116 C.F.	128 C.F.	100%*	8'	8'	5'
22 (3)	698 SQ. FT.	23 C.F.	24 C.F.	100%*	5'	5'	4'

* AREA OF TREATMENT EXCEEDS THAT REQUIRED.

- ### 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 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 INSURE 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.

OWNER/DEVELOPER
 THOMAS V. SAMUEL & SISSY M. AMBLY
 5517 TROTTER ROAD
 CLARKSVILLE, MARYLAND 21029
 301-552-0005

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING

K. J. St. Louis
 Chief, Division of Land Development
 Date: 2-20-15

Ch. J. ...
 Chief, Development Engineering Division
 Date: 2-19-15

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. 38386, EXPIRATION DATE: 01/31/2016.

Stephan J. ...
 Signature of Professional Engineer
 DATE: 2/2/15

HOWARD COUNTY, MARYLAND
 TAX MAP #35 PARCEL 512
 ZONED: NEW TOWN

SCHEDULE A - PERIMETER LANDSCAPE EDGE

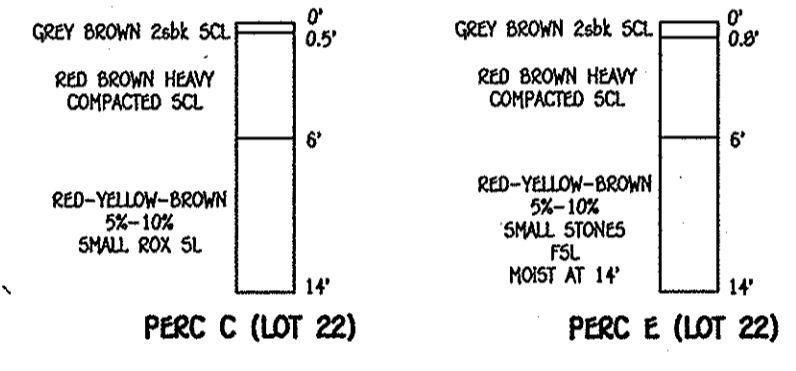
PERIMETER	P-1	P-2	P-3	TOTAL
CATEGORY	ADJACENT TO PERIMETER PROPERTIES	ADJACENT TO PERIMETER PROPERTIES	ADJACENT TO PERIMETER PROPERTIES	
LANDSCAPE TYPE	A	A	A	
LINEAR FEET OF PERIMETER	155 LF	135 LF	332 LF	
CREDIT FOR EXISTING VEGETATION	22 LF OF EXISTING TREES 133 LF REMAINING	135 LF OF EXISTING TREES 0 LF REMAINING	30 LF OF EXISTING TREES 302 LF REMAINING	
NUMBER OF PLANTS REQUIRED	2 (133/60 = 2.2 OR 2)	0	5 (302/60 = 5.0 OR 5)	7
CREDIT FOR EXISTING VEGETATION	0	0	0	0
NUMBER OF PLANTS PROVIDED	2	0	2	5
SHRUBS	0	0	0	0
EVERGREENS/SUBSTITUTION TREES(2:1)	0	0	0	0
SHRUBS	0	0	0	0
EVERGREENS/SUBSTITUTION TREES(2:1)	0	0	0	0
SHRUBS	0	0	0	0

LANDSCAPING PLANT LIST

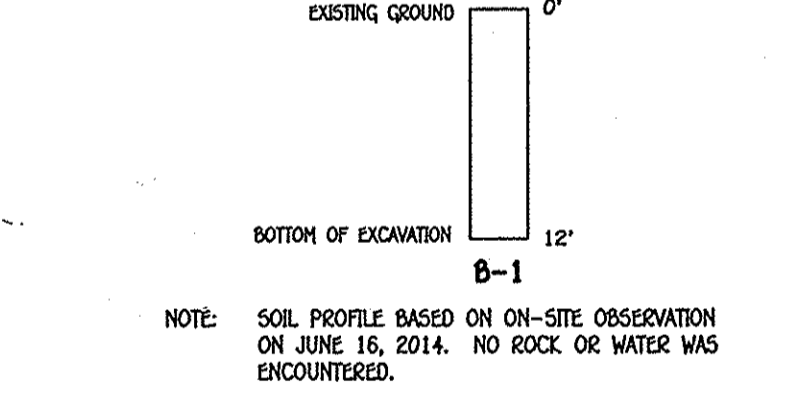
QTY.	KEY	NAME	SIZE
4		ACER RUBRUM 'RED SUNSET' (RED SUNSET RED MAPLE)	2.5"-3" GAL FULL CROWN, BAB
6		THUJA PLICATA (GIANT ARBOVITAE 'GREEN GIANT')	5"-8" HE. CONT./BAB

TOTAL: 4 SHADE TREES & 6 EVERGREENS

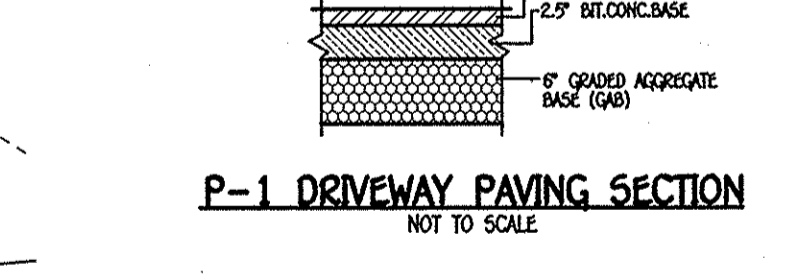
- NOTE:**
- DRYWELL 2 IS LOCATED APPROXIMATELY 58 FEET FROM B-1. SHOULD ROCK / WATER BE ENCOUNTERED DURING INSTALLATION, THE ENGINEER OF RECORD SHALL BE CONTACTED FOR A REDESIGN OF THE DRYWELL.
 - THIS DRAWING MAY NOT BE USED TO OBTAIN PERMIT FOR CONSTRUCTION OF THE HOUSE OR DRIVEWAY.
 - THE STANDARD SEDIMENT AND EROSION CONTROL PLAN MAY NOT BE USED FOR THE HOUSE CONSTRUCTION.



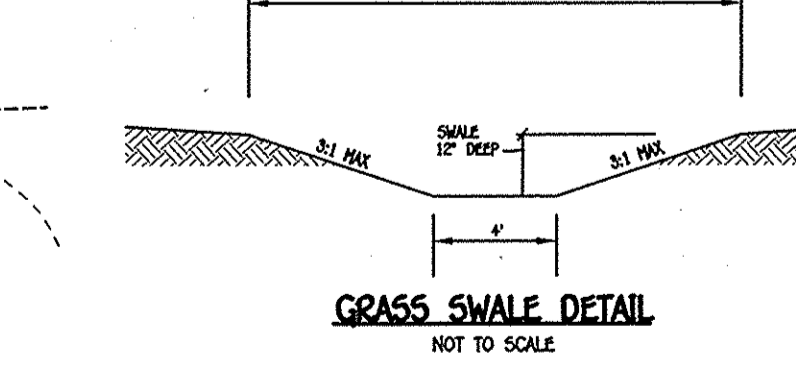
NOTE: SOIL PROFILES TAKEN FROM PERC TEST RESULTS ISSUED BY HOWARD COUNTY HEALTH DEPARTMENT DATED JULY 26, 2011.



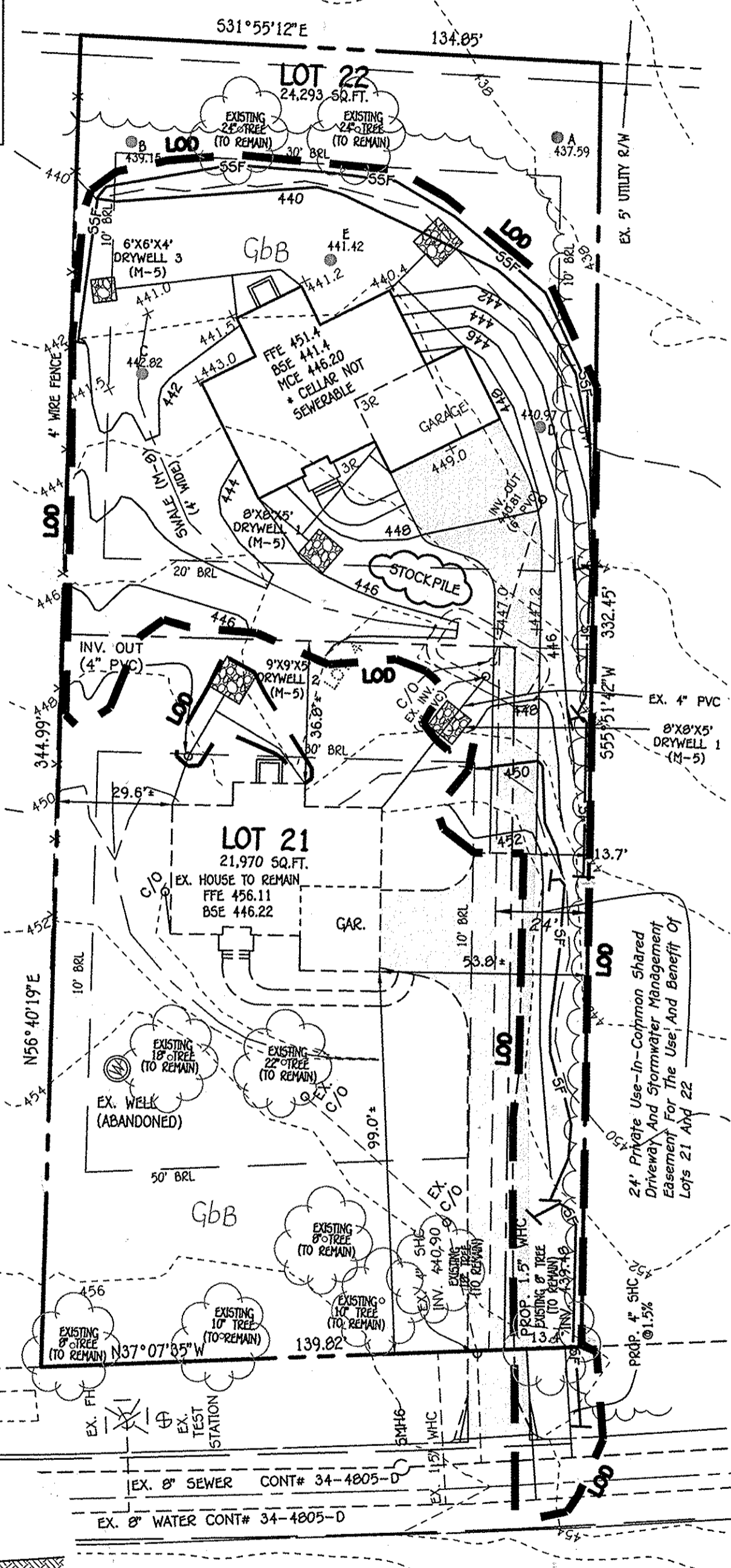
NOTE: SOIL PROFILE BASED ON ON-SITE OBSERVATION ON JUNE 15, 2014. NO ROCK OR WATER WAS ENCOUNTERED.



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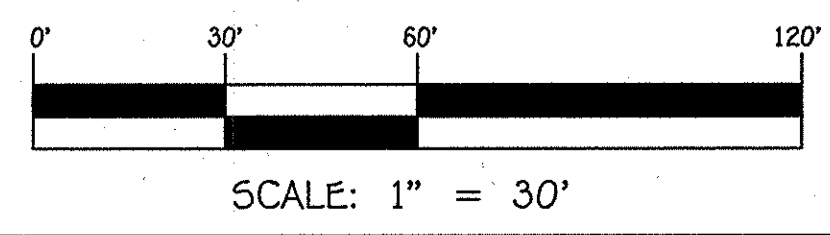


NOTE: SOIL PROFILE BASED ON ON-SITE OBSERVATION ON JUNE 15, 2014. NO ROCK OR WATER WAS ENCOUNTERED.



SEDIMENT & EROSION CONTROL PLAN
 SCALE: 1" = 30'

SUPPLEMENTAL PLAN
 LANDSCAPE, FOREST CONSERVATION, TOPOGRAPHIC AND SOILS
CRISWOOD MANOR
 SECTION 4, LOTS 21 & 22
 TAX MAP #29 GRID NO. 20 PARCEL #08
 FIFTH ELECTION DISTRICT HOWARD COUNTY, MARYLAND
 ZONED: R-20
 SCALE: AS SHOWN DATE: JANUARY, 2015
 SHEET 2 OF 2



EX-201111058.dwg/RECORD PLATS/11058 Support Plan-CRISWOOD MANOR-LOT 4 no. rd imp.dwg, 2/2/2015 4:50:07 PM, 1:1