GENERAL NOTES

- ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE LATEST STANDARDS AND SPECIFICATIONS OF HOWARD COUNTY, PLUS MSHA STANDARDS AND SPECIFICATIONS IF APPLICABLE, UNLESS WAIVER(S)
- 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
- THE CONTRACTOR SHALL NOTIFY "MISS UTILITY" AT 1-800-257-7777 AT LEAST 48 HOURS PRIOR TO
- TRAFFIC CONTROL DEVICES, MARKINGS AND SIGNING SHALL BE IN ACCORDANCE WITH THE MOST CURRENT EDITION OF THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD). ALL STREET AND REGULATORY SIGNS SHALL BE IN PLACE PRIOR TO THE PLACEMENT OF ANY ASPHALT.
- STREET LIGHTS PLACEMENT AND TYPE OF FIXTURE & SIGNING SHALL BE IN ACCORDANCE WITH THE HOWARD COUNTY DESIGN MANUAL, VOL. III (1993) AND AS MODIFIED BY "GUIDELINES FOR STREET LIGHTS IN RESIDENTIAL DEVELOPMENTS (JUNE, 1993)
- EXISTING TOPOGRAPHY SHOWN HEREON WAS FIELD RUN BY BENCHMARK ENGINEERING, INC. DATED MAY 2003. CONTOUR INTERVAL IS 2 FEET.
- THE COORDINATES SHOWN HEREON ARE BASED UPON THE HOWARD COUNTY GEODETIC CONTROL MONUMENTS 30CT2 & 30CT3, WHICH IS BASED ON THE MARYLAND STATE PLANE COORDINATE SYSTEM.
- THIS PROPERTY IS WITHIN THE METROPOLITAN DISTRICT. WATER AND SEWER SHALL BE PUBLIC, CONNECTING TO CONTRACTS 344-S AND 221-S FOR SEWER AND TO CONTRACT 137-W FOR WATER. DRAINAGE AREA IS WITHIN THE PATUXENT RIVER AREA WATERSHED.
- 9. STORMWATER MANAGEMENT SHALL BE PROVIDED FOR THIS PROJECT BASED ON GUIDELINES ESTABLISHED BY THE 2000 MARYLAND STORMWATER DESIGN MANUAL VOLUMES I & II. STORMWATER MANAGEMENT SHALL BE PROVIDED IN ACCORDANCE WITH F-04-102, F-04-103 AND F-04-104 BY USE OF ROOFTOP
- 10. EXISTING UTILITIES SHOWN WERE LOCATED BY APPROVED CONTRACT DRAWINGS AND FIELD LOCATIONS.
- 11. PERIMETER LANDSCAPING IN ACCORDANCE WITH SECTION 16.124 OF THE HOWARD COUNTY CODE AND LANDSCAPE MANUAL SHALL BE PROVIDED AS SHOWN ON THIS SITE PLAN. FINANCIAL SURETY WILL BE POSTED WITH THE BUILDERS' GRADING PERMIT.
 - A) SECTION 7 IN THE AMOUNT OF \$2,400 FOR 8 SHADE TREES. B) SECTION 8 IN THE AMOUNT OF \$1,800 FOR 6 SHADE TREES.
- C) SECTION 9 IN THE AMOUNT OF \$5,400 FOR 18 SHADE TREES. 12. TO THE BEST OF OUR KNOWLEDGE, THERE ARE NO CEMETERY LOCATIONS ON-SITE.
- 13. UNLESS NOTED AS "PRIVATE", ALL EASEMENTS ARE PUBLIC.
- 14. BRL INDICATES BUILDING RESTRICTION LINE.
- 15. DRIVEWAYS SHALL BE PROVIDED PRIOR TO ISSUANCE OF A USE AND OCCUPANCY PERMIT FOR ANY NEW DWELLINGS FOR FIRE AND EMERGENCY VEHICLES PER THE FOLLOWING MINIMUM REQUIREMENTS: A) WIDTH - 12' (14' SERVING MORE THAN ONE RESIDENCE). B) SURFACE -6 OF COMPACT CRUSHER RUN BASE WITH TAR AND CHIP COATING (1-1/2 MIN.) GEOMETRY - MAX. 15% GRADE, MAX. 10% GRADE CHANGE & MIN. 45' TURNING RADIUS. STRUCTURES(CULVERTS/BRIDGES) - CAPABLE OF SUPPORTING 25 GROSS TONS (H25 LOAD) DRAINAGE ELEMENTS — CAPABLE OF SAFELY PASSING 100 YEAR FLOOD WITH NO MORE THAN 1 FOOT DEPTH OVER DRIVEWAY SURFACE. F) STRUCTURE CLEARANCES - MINIMUM 12 FEET.
- MAINTENANCE SUFFICIENT TO INSURE ALL WEATHER USE.
- 16. THIS PLAN IS SUBJECT TO THE AMENDED 5th EDITION OF THE HOWARD COUNTY SUBDIVISION AND LAND DEVELOPMENT REGULATIONS PER COUNCIL BILL 45-203 AND THE HOWARD COUNTY ZONING REGULATIONS, AS AMENDED UNDER COUNCIL BILL 75-2003. 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.
- 17. SUBJECT PROPERTY IS ZONED R-20 PER 2-2-04 COMPREHENSIVE ZONING PLAN.
- 18. PREVIOUS APPLICABLE HOWARD COUNTY DPZ FILE REFERENCES FOR THIS PROJECT ARE F-04-102, F-04-103 AND F-04-104.
- 19. CONTRACTOR SHALL VERIFY ALL UTILITY LOCATIONS PRIOR TO ANY CONSTRUCTION ACTIVITY AND SHALL ADJUST ALL UTILITIES AND RIM ELEVATIONS AS NEEDED TO MATCH THIS PLAN.
- 20. THE EX. 18' PRIVATE INGRESS & EGRESS R/W WAS ABANDONED BY DEED L8647/F361 ON SEPT.21, 2004.
- 21. IN ACCORDANCE WITH SECTION 128 OF THE HOWARD COUNTY ZONING REGULATIONS, BAY WINDOWS, CHIMNEYS OR EXTERIOR STAIRWAYS MORE THAN 16 FEET IN WIDTH MAY NOT PROJECT MORE THAN 4 FEET INTO ANY SETBACKS. PORCHES OR DECKS, OPEN OR ENCLOSED, MAY NOT PROJECT MORE THAN 10 FEET INTO
- 22. DRIVEWAY APRON TO BE CONSTRUCTED PER THE HOWARD COUNTY STANDARD DETAIL R6.06.
- 23. NO CLEARING, GRADING OR CONSTRUCTION IS PERMITTED WITHIN THE REQUIRED WETLANDS, STREAM(S) OR THEIR BUFFERS AND FOREST CONSERVATION EASEMENT AREAS.
- THIS PROJECT COMPLIES WITH THE REQUIREMENTS OF SECTION 16.1200 OF THE HOWARD COUNTY CODE FOR FOREST CONSERVATION AS FOLLOWS SECTION 7 (F-04-104) BY PAYMENT OF A FEE IN LIEU IN THE AMOUNT OF \$15,246 FOR 30,492SF (0.7AC) SECTION 8 (F-04-102) NOTE#11 THIS SUBDIVISION IS EXEMPT FROM THE FOREST CONSERVATION REQUIREMENTS IN ACCORDANCE WITH SECTION 16.120(b)(I)(viii) OF THE HOWARD COUNTY CODE FOR A MINOR SUBDIVISION THAT CREATES ONE ADDITIONAL LOT WITH NO FURTHER SUBDIVISION POTENTIAL SECTION 9 (F-04-103) NOTE#11 BY PAYMENT OF A FEE IN LIEU IN THE AMOUNT OF \$21,780.
- 25. FOR FLAG OR PIPESTEM LOTS, REFUSE COLLECTION, SNOW REMOVAL AND ROAD MAINTENANCE ARE PROVIDED TO THE JUNCTION OF THE FLAG OR PIPESTEM AND ROAD RIGHT-OF-WAY LINE AND NOT TO THE PIPESTEM LOT
- 26. THIS DEVELOPMENT IS DESIGNED TO BE IN ACCORDANCE WITH THE RECENTLY ADOPTED RESIDENTIAL INFILL DEVELOPMENT REGULATIONS AS ALLOWED IN THE AMENDED FIFTH EDITION 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
- 27. THE RECORDED REAR BUILDING RESTRICTION LINE (BRL) FOR SECTION 9, LOT 4 COINCIDES WITH THE BOUNDARY OF THE 20' PUBLIC DRAINAGE UTILITY EASEMENT. THEREFORE, THE DISTANCE FROM THE REAR BUILDING RESTRICTION LINE TO THE REAR PROPERTY LINE OF LOT 4 WILL VARY IN DISTANCE, NOT TO BE LESS THAN 30 FEET PER ZONING REGULATIONS. SECTION 16.120.(b).(4).(v).b OF THE SUBDIVISION REGULATIONS PROHIBITS THE PLACEMENT OF RIP-RAP WITHIN THE BUILDING ENVELOPE.
- 27. THE RECORDED 35' SIDE BUILDING RESTRICTION LINE (BRL) FOR SECTION 8, LOT 2 COINCIDES WITH THE BOUNDARY OF THE 35' SETBACK FROM THE WETLAND BUFFER; THEREFORE, THE DISTANCE FROM THE SIDE BUILDING RESTRICTION LINE TO THE PROPERTY LINE OF LOT 2 WILL VARY IN DISTANCE, NOT TO BE LESS THAN 10 FEET PER THE ZONING REGULATIONS. SECTION 16.120.(b).(4).(iii).c OF THE SUBDIVISION REGULATIONS PROHIBITS THE BUILDING ENVELOPE TO BE NO CLOSER THAN 35 FEET FROM THE WETLAND BUFFER.

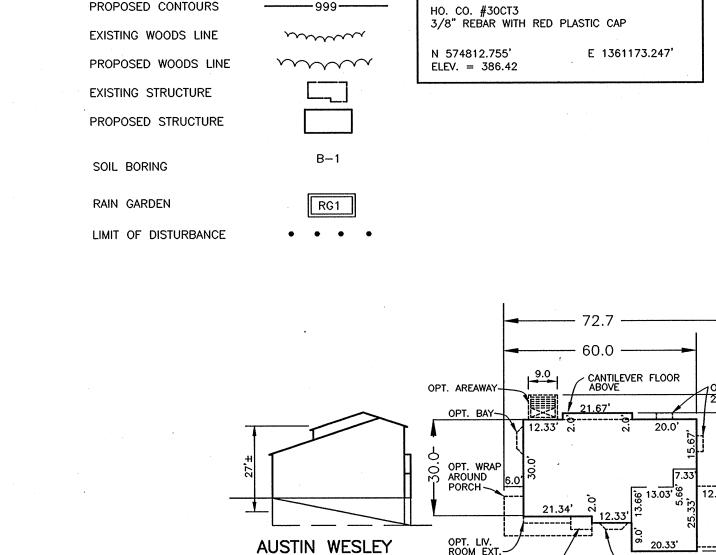
8/3/05 DATE

28. OPEN SPACE WAS PROVIDED BY PAYMENT OF A FEE IN LIEU OF OPEN SPACE IN THE AMOUNT OF \$1,500 FOR F-04-102, \$6,000 FOR F-04-103 AND \$3,000 FOR F-04-104.

SITE DEVELOPMENT PLAN COLUMBIA HILLS

SECTIONS 7-9 PARCEL 16 AND 39

2nd ELECTION DISTRICT HOWARD COUNTY, MARYLAND



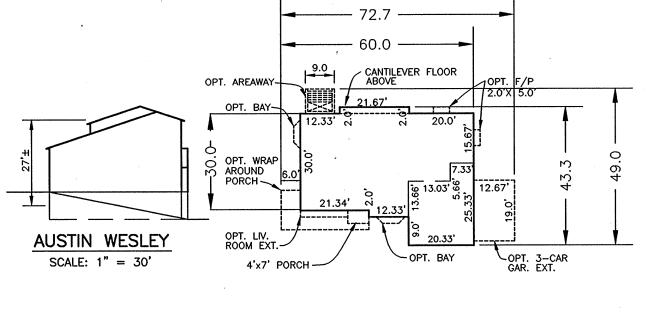
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LEGEND

SOILS CLASSIFICATION

SOILS DELINEATION

EXISTING CONTOURS



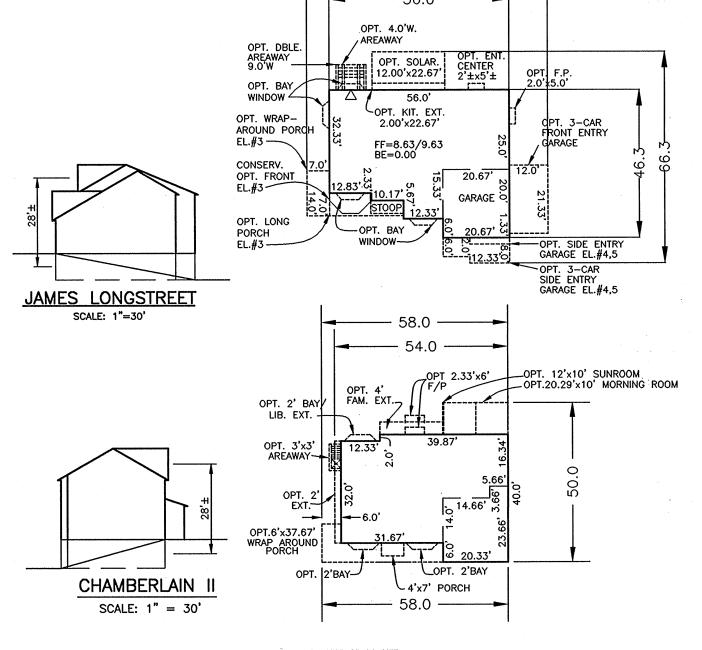
BENCH MARKS NAD'83 HORIZONTA

E 1361312.723'

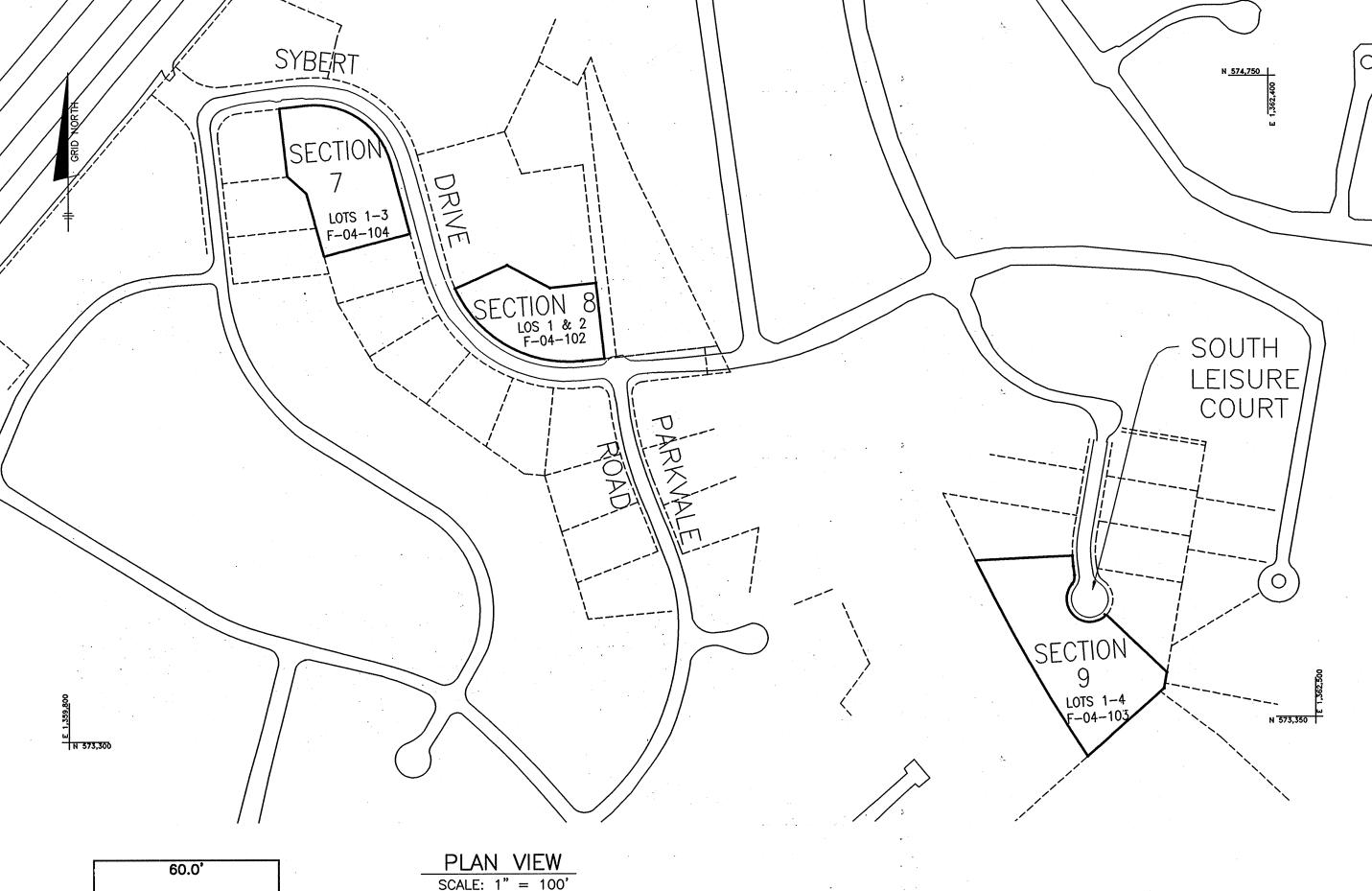
HO. CO. #30CT2 3/8" REBAR WITH RED PLASTIC CAP

N 574179.232'

ELEV. = 388.74



SCALE: 1" = 30'



HSE BOX 1 FRONT OF JAMES LONGSTREET

NO OPT. SOLARIUM ADDRESS CHART **AUSTIN WESLEY** STREET ADDRESS NO 3 CAR GARAGE OPTION 9141 SYBERT DRIVE CHAMBERLAIN II 9137 SYBERT DRIVE ALL OPTIONS 9133 SYBERT DRIVE HOUSE BOX SCALE: 1" = 30'SECTION 8

* - INDICATES HYDRIC SOILS

	ADDRESS CHART	
T No.	STREET ADDRESS	
. 1	9120 SYBERT DRIVE	
2 .	9118 SYBERT DRIVE	
	SECTION 9	

	SECTION 9					
ADDRESS CHART						
LOT No.	STREET ADDRESS					
1	4682 SOUTH LEISURE DRIVE					
2	4686 SOUTH LEISURE DRIVE					
3	4690 SOUTH LEISURE DRIVE					
4	4685 SOUTH LEISURE DRIVE					

		60.0' SIDE LOAD			1.) TOTAL PROJECT AREA:
•		S LONGSTREET CAR GARAGE OPTION			SECTION 7
		RAP AROUND PORCH PT. SOLARIUM		er f	2.) TOTAL NUMBER OF LOTS ALLOWED
		STIN WESLEY CAR GARAGE OPTION MBERLAIN II			SECTION 7
	***************************************	OPTIONS		•	4.) APPROXIMATE LIMIT OF DISTURBANCE:
	_H(DUSE BOX PALE: 1" = 30'			SECTION 7
		·			5.) AREA OF THIS PLAN SUBMISSION:
MI	NIM	JM LOT SIZ	E CHART SI	ECTION 9	SECTION 7
LOT	NO.	GROSS AREA	PIPESTEM AREA	MIN. LOT SIZE	SECTION 9
	3	21,296 S.F.	1,206 S.F.	20,090 S.F.	
		•			GENERAL SITE DATA
		COIL	CLECEND		1.) PRESENT ZONING: R-20

AREA TABULATION

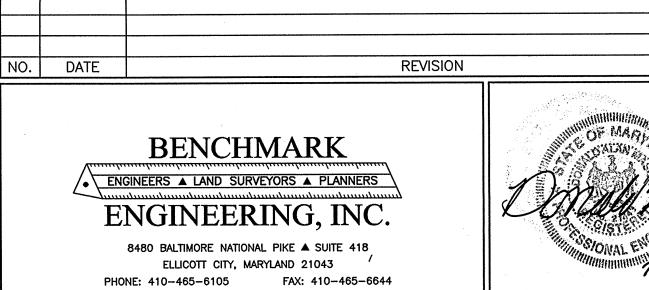
SITE DATA TABULATION

_		SOILS LEGEND		1.) PRESENT ZONING: R-20 2.) APPLICABLE DPZ FILE REFERENCES:
L	SOIL TYPE	MAPPING UNIT		SECTION 7— LIBER 8647, FOLIO 338, F-04-104 PLAT NO.17278
	В	CHESTER SILT LOAM, 3 TO 8 PERCENT SLOPES, MODERATELY ERODED		SECTION 8— LIBER 8647, FOLIO 338, F-04-102 PLAT NO.17276
	В	GLENELG LOAM, 8 TO 15 PERCENT SLOPES, MODERATELY ERODED		SECTION 9- LIBER 8647, FOLIO 338, F-04-103 PLAT NO.17277
	В	MANOR LOAM, 3 TO 8 PERCENT, SLOPES, MODERATELY ERODED		A. USE-IN COMMON EASEMENT FOR SECTION 9 LOTS 3 AND 4,
	В	MANOR LOAM, 8 TO 15 PERCENT SLOPES, MODERATELY ERODED		LIBER 9016, FOLIO 371 AND 372.
	В	MANOR LOAM, 8 TO 15 PERCENT SLOPES, SEVERELY ERODED		3.) PROPOSED USE OF SITE: SINGLE-FAMILY DETACHED
	В	MANOR LOAM, 15 TO 25 PERCENT SLOPES, SEVERELY ERODED		() PROPOSED WATER IO BURNIO
	B	CHESTER SILT LOAM, 3 TO 8 PERCENT SLOPES, MODERATELY ERODED	·	4.) PROPOSED WATER IS PUBLIC

PROPOSED SEWER IS PUBLIC

	SHEET INDEX
NO.	DESCRIPTION
1	TITLE SHEET
2	SITE DEVELOPMENT AND LANDSCAPE PLAN
3	SITE DEVELOPMENT AND LANDSCAPE PLAN
4	GRADING AND SEDIMENT CONTROL PLAN
5	GRADING AND SEDIMENT CONTROL PLAN
6	SEDIMENT AND EROSION CONTROL NOTES AND DETAILS

		PERMIT	T INFOR	MATION CH	-IART		9926 C ELLICOTT (YPRESSMEDE CITY, MARYLAN	DRIVE D 2104	43	_
¥	SUBDIVISION NAME:		ILLS	SECTION/AREA: N/A	PARCEL # P/O 16 & 39	LOT SECTION 7 LOTS 1-3 SECTION 8 LOTS 1 AND 2 SECTINO 9 LOTS 1-4	BUILDER: DORSI	: 410-465- EY FAMILY HO YPRESSMEDE	DMES		
•	PLAT No. 17276 17277 17278	GRID No.	ZONE R-20	TAX MAP	ELECTION DISTRICT 2nd	CENSUS TRACT 6023.02	ELLICOTT (CITY, MARYLAN : 410-465-	ND 2104	43	
	WATER CODE	F-09		SEWER CODE	565	55400	Design: DAM	Draft: EDD	Check:	DAM	



SCALE:

www.bei-civilengineering.com ONWER/DEVELOPER: DAWSON PROPERTY, LLC 9926 CYPRESSMEDE DRIVE ELLICOTT CITY, MARYLAND 21043 PHONE: 410-465-7200

COLUMBIA HILLS SECTION 7 LOTS 1-3, SECTION 8, LOTS 1 AND 2 SECTION 9, LOTS 1-4 TAX MAP 30 - GRID 5 PARCEL 16 & 39 2nd ELECTION DISTRICT HOWARD COUNTY, MARYLAND

AS SHOWN

SITE DEVELOPMENT PLAN PROJECT NO. 1795

SDP-05-076

DRAWING $\underline{1}$ OF $\underline{6}$

P:\1795 COLUMBIA HILLS SDP\dwa\8000v2.dwa, Title Block, 7/13/2005 8:09:42 AM. edd

DEVELOPER'S/BUILDER'S CERTIFICATE

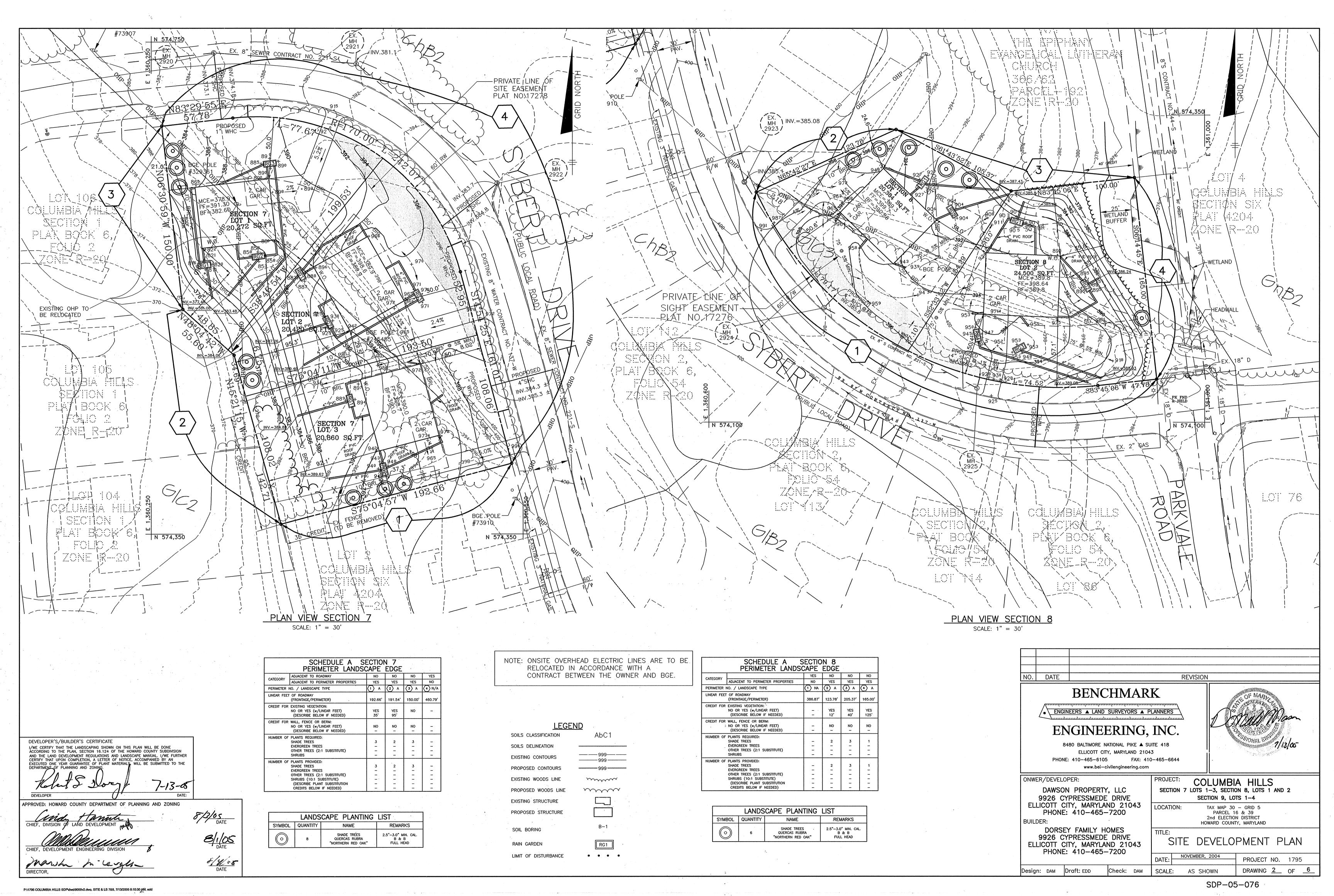
DEPARTMENT OF PLANNING AND ZONING.

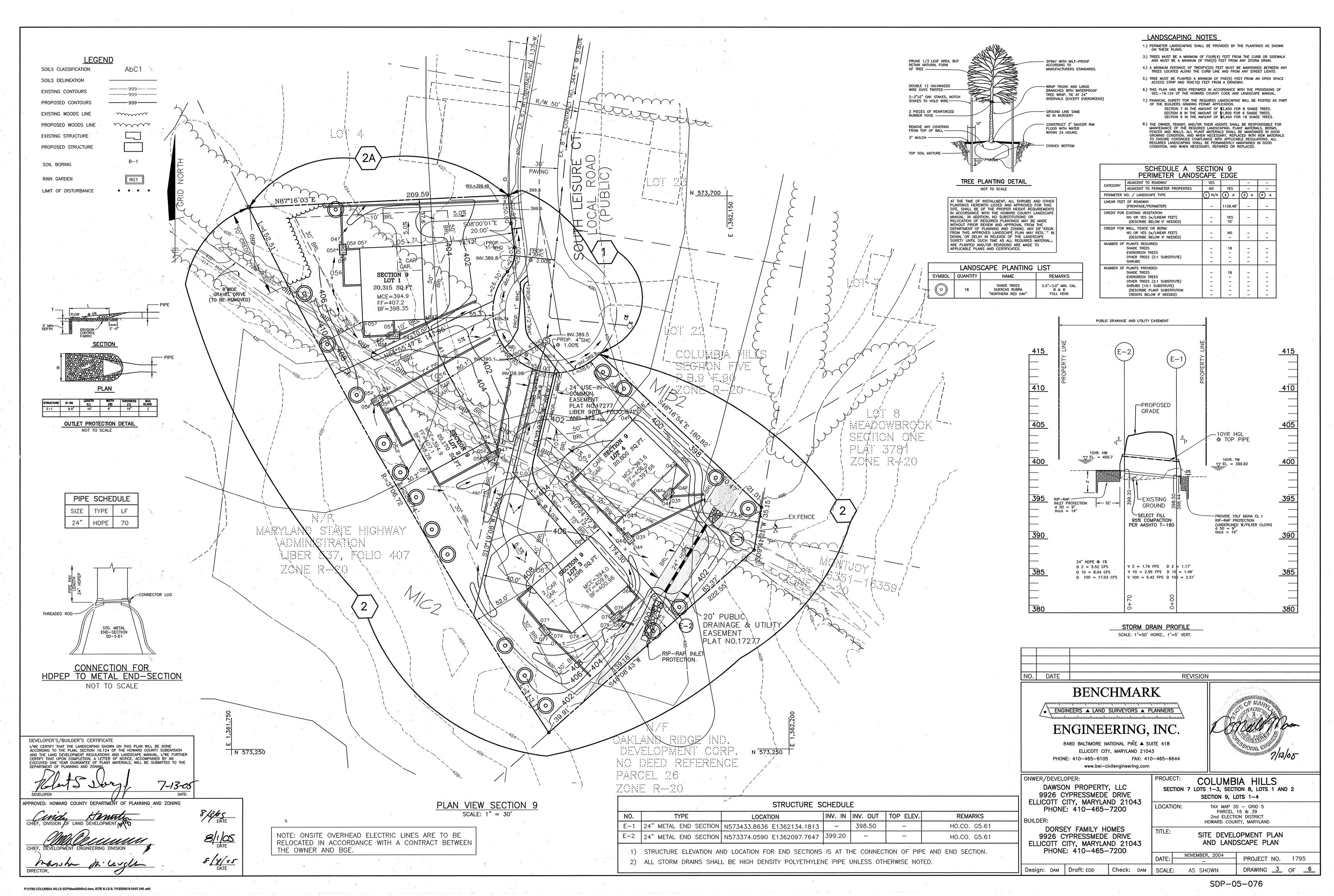
CHIEF, DIVISION OF LAND DEVELOPMENT

I/WE CERTIFY THAT THE LANDSCAPING SHOWN ON THIS PLAN WILL BE DONE ACCORDING TO THE PLAN, SECTION 16.124 OF THE HOWARD COUNTY SUBDIVISION

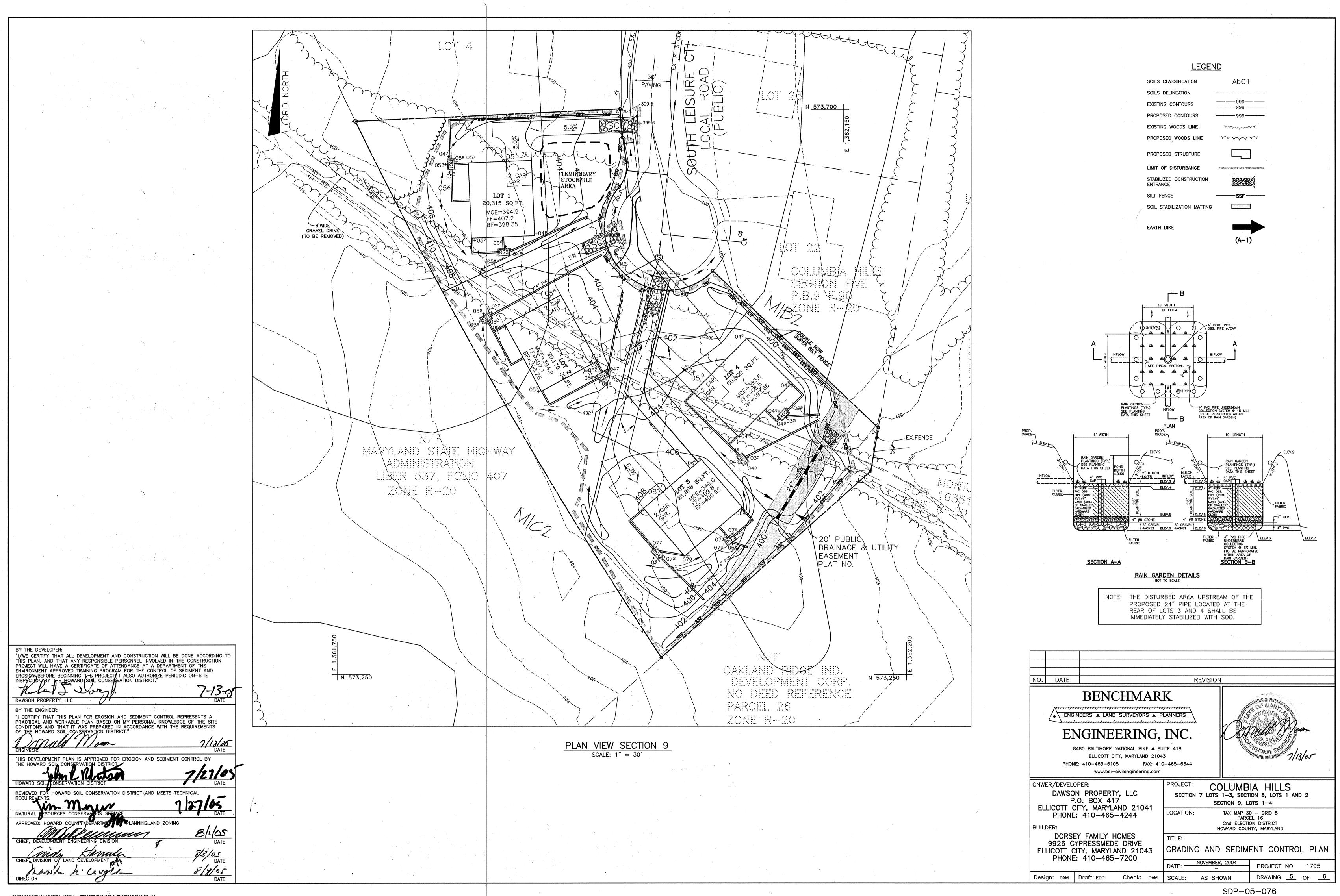
PPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING

AND THE LAND DEVELOPMENT REGULATIONS AND LANDSCAPE MANUAL. I/WE FURTHER CERTIFY THAT UPON COMPLETION, A LETTER OF NOTICE, ACCOMPANIED BY AN









P:\1795 COLUMBIA HILLS SDP\dwg\8023.dwg, SED&ERO PLAN(SEC-9), 7/13/2005 8:12:10 AM, edd

SEDIMENT CONTROL NOTES

A MINIMUM OF 48 HOURS NOTICE MUST BE GIVEN TO THE HOWARD COUNTY DEPARTMENT OF INSPECTIONS AND PERMITS SEDIMENT CONTROL DIVISION PRIOR

TO THE START OF ANY CONSTRUCTION. ALL VEGETATIVE AND STRUCTURAL PRACTICES ARE TO BE INSTALLED ACCORDING TO THE PROVISIONS OF THIS PLAN AND ARE TO BE IN CONFORMANCE WITH THE 1994 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL AND REVISIONS THERETO.

FOLLOWING INITIAL SOIL DISTURBANCE OR REDISTURBANCE, PERMANENT OR TEMPORARY STABILIZATION SHALL BE COMPLETED WITHIN: A) 7 CALENDAR DAYS FOR ALL PERIMETER SEDIMENT CONTROL STRUCTURES, DIKES, PERIMETER SLOPES AND ALL SLOPES GREATER THAN 3:1, B) 14 DAYS AS TO ALL OTHER DISTURBED

ALL SEDIMENT TRAPS/BASINS SHOWN MUST BE FENCED AND WARNING SIGNS POSTED AROUND THEIR PERIMETER IN ACCORDANCE WITH VOL. 1, CHAPTER 12, OF THE HOWARD COUNTY DESIGN MANUAL, STORM DRAINAGE.

ALL DISTURBED AREAS MUST BE STABILIZED WITHIN THE TIME PERIOD SPECIFIED ABOVE IN ACCORDANCE WITH THE 1994 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL FOR PERMANENT SEEDINGS (SEC. 51) SOD (SEC. 54), TEMPORARY SEEDING (SEC. 50) AND MULCHING (SEC. 52).
TEMPORARY STABILIZATION WITH MULCH ALONE CAN ONLY BE DONE WHEN
RECOMMENDED SEEDING DATES DO NOT ALLOW FOR PROPER GERMINATION AND

ALL SEDIMENT CONTROL STRUCTURES ARE TO REMAIN IN PLACE AND ARE TO BE MAINTAINED IN OPERATIVE CONDITION UNTIL PERMISSION FOR THEIR REMOVAL HAS BEEN OBTAINED FROM THE HOWARD COUNTY SEDIMENT CONTROL INSPECTOR. SITE ANALYSIS:

.30 ACRES

1.03 ACRES ACRES
ACRES
ACRES

9679 CU. YDS. ON-SITE STOCKPILE

SECTION 7 TOTAL AREA OF SITE TOTAL AREA DISTURBED AREA TO BE ROOFED OR PAVED AREA TO BE VEGETATIVELY STABILIZED

SECTION 8 TOTAL AREA OF SITE
TOTAL AREA DISTURBED
AREA TO BE ROOFED OR PAVED
AREA TO BE VEGETATIVELY STABILIZED

SECTION 9 TOTAL AREA OF SITE TOTAL AREA DISTURBED AREA TO BE ROOFED OR PAVED
AREA TO BE VEGETATIVELY STABILIZED

OFFSITE HAUL

ANY SEDIMENT CONTROL PRACTICE WHICH IS DISTURBED BY GRADING ACTIVITY FOR PLACEMENT OF UTILITIES MUST BE REPAIRED ON THE SAME DAY OF DISTURBANCE ADDITIONAL SEDIMENT CONTROLS MUST BE PROVIDED, IF DEEMED NECESSARY BY

ON ALL SITES WITH DISTURBED AREAS IN EXCESS OF 2 ACRES, APPROVAL OF THE INSPECTION AGENCY SHALL BE REQUESTED UPON COMPLETION OF INSTALLATION OF PERIMETER EROSION AND SEDIMENT CONTROLS, BUT BEFORE PROCEEDING WITH ANY OTHER EARTH DISTURBANCE OR GRADING. OTHER BUILDING OR GRADING INSPECTION APPROVALS MAY NOT BE AUTHORIZED UNTIL THIS INITIAL APPROVAL BY THE INSPECTION AGENCY IS MADE.

TRENCHES FOR THE CONSTRUCTION OF UTILITIES ARE LIMITED TO THREE PIPE

LENGTHS OR THAT WHICH CAN BE BACK FILLED AND STABILIZED WITHIN ONE WORKING DAY, WHICHEVER IS SHORTER. - IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO IDENTIFY AN OFF-SITE FILL ARFA WITH AN APPROVED SEDIMENT & EROSION CONTROL PLAN.

TEMPORARY SEEDBED PREPARATION

APPLY TO GRADED OR CLEARED AREAS LIKELY TO BE REDISTURBED WHERE A SHORT-TERM VEGETATIVE COVER IS NEEDED. SEEDBED PREPARATION: LOOSEN UPPER THREE INCHES OF SOIL BY RAKING, DISCING OR OTHER ACCEPTABLE MEANS BEFORE SEEDING, IF NOT PREMOUSLY

SOIL AMENDMENTS: APPLY 600 LBS PER ACRE 10-10-10 FERTILIZER (14 LBS/1000 SQ FT). SEEDING: FOR PERIOD MARCH 1 THROUGH APRIL 30 AND FROM AUGUST 15 THROUGH NOVEMBER 15, SEED WITH 2-1/2 BUSHELS PER ACRE OF ANNUAL RYE (3.2 LBS/1000 SQ FT). FOR THE PERIOD MAY 1 THROUGH AUGUST 14, SEED WITH 3 LBS PER ACRE OF WEEPING LOVEGRASS (.07 LBS/1000 SQ FT). FOR THE PERIOD NOVEMBER 16 THROUGH FEBRUARY 28, PROTECT SITE BY APPLYING 2 TONS PER ACRE OF WELL ANCHORED STRAW MULCH AND SEED AS SOON AS POSSIBLE IN THE SPRING, OR USE SOD.

MULCHING: APPLY 1-1/2 TO 2 TONS PER ACRE (70 TO 90 LBS/1000 SQ FT) OF UNROTTED SMALL GRAIN STRAW IMMEDIATELY AFTER SEEDING. ANCHOR OF UNKOTTED SMALL GRAIN STRAW IMMEDIATELY AFTER SEEDING. ANCHOR MULCH IMMEDIATELY AFTER APPLICATION USING MULCH ANCHORING TOOL OR 218 GALLONS PER ACRE (5 GAL/1000 SQ FT) OF EMULSIFIED ASPHALT ON FLAT AREAS. ON SLOPES, 8 FT. OR HIGHER, USE 348 GALLONS PER ACRE (8 GAL/1000 SQ FT) FOR ANCHORING.

EROSION AND SEDIMENT CONTROL FOR RATE AND METHODS NOT COVERED.

PERMANENT SEEDBED PREPARATION SEEDBED PREPARATION: LOOSEN UPPER THREE INCHES OF SOIL BY RAKING, DISCING OR OTHER ACCEPTABLE MEANS BEFORE SEEDING, IF NOT PREMOUSLY

SOIL AMENDMENTS: IN LIEU OF SOIL TEST RECOMMENDATIONS, USE ON OF THE FOLLOWING SCHEDULES:

1. PREFERRED - APPLY 2 TONS PER ACRE DOLOMITIC LIMESTONE (9

LBS/1000 SQ FT) AND 600 LBS PER ACRE 10-10-10 FERTILIZER (14 LBS/1000 SQ FT) BEFORE SEEDING. HARROW OR DISC INTO UPPER THREE INCHES OF SOIL. AT TIME OF SEEDING, APPLY 400 BS PER ACRE 30-0-0- UREAFORM FERTILIZER (9 LBS/1000 SQ ACCEPTABLE - APPLY 2 TONS PER ACRE DOLOMITIC LIMESTONE (92 LBS/1000 SQ FT) AND 1000 LBS PER ACRE 10-10-10 FERTILIZER (23 LBS/1000 SQ FT) BEFORE SEEDING. HARROW OR DISC INTO UPPER THREE INCHES OF SOIL.

SEEDING: FOR THE PERIODS MARCH 1 THROUGH APRIL 30 AND AUGUST 1 THROUGH OCTOBER 15, SEED WITH 60 LBS PER ACRE (1.4 LBS/1000 SQ FT) OF KENTUCKY 31 TALL FESCUE PER ACRE AND 2 LBS PER ACRE (.05 LBS/1000 SQ FT) OF WEEPING LOVEGRASS. DURING THE PERIOD OF OCTOBER 16 THROUGH FEBRUARY 28, PROTECT SITE BY: OPTION (1) 2 TONS PER ACRE OF WELL ANCHORED STRAW MULCH AND SEED AS SOON AS POSSIBLE IN THE SPRING. OPTION (2) USE SOD. OPTION (3) SEED WITH 60 LBS PER ACRE OF KENTUCKY 31 TALL FESCUE AND MULCH WITH 2 TONS FOR ACRE OF WELL

MULCHING: APPLY 1-1/2 TO 2 TONS PER ACRE (70 TO 90 LBS/1000 SQ FT) MULCH IMMEDIATELY AFTER APPLICATION USING MULCH ANCHORING TOOL OR 218 GALLONS PER ACRE (5 GAL/1000 SQ FT) OF EMULSIFIED ASPHALT ON FLAT AREAS. ON SLOPES 8 FEET OR HIGHER, USE 348 GALLONS PER ACRE MAINTENANCE: INSPECT ALL SEEDED AREAS AND MAKE NEEDED REPAIRS,

REPLACEMENTS AND RESEEDINGS.

21.0 STANDARD AND SPECIFICATIONS FOR TOPSOII.

Placement of topsoil over a prepared subsoil prior to establishment of permanent vegetation. Purpose

To provide a suitable medium for vegetative growth. Soils of concern have low moisture content, low nutrient levels, low pH, materials toxic to plants, and/or unacceptable soil

Conditions Where Practice Applies

- This practice is limited to areas having 2:1 or flatter slopes where a. The texture of the exposed subsoil/parent material is not adequate to produce
- b. The soil material is so shallow that the rooting zone is not deep enough to support plants or furnish continuing supplies of moisture and plant nutrients.
- c. The original soil to be vegetated contains material toxic to plant growth. d. The soil is so acidic that treatment with limestone is not feasble. II. For the purpose of these Standards and Specifications, areas having slopes steeper than 2:1 require special consideration and design for adequate stabilization. Areas having slopes steeper than 2:1 shall have the appropriate stabilization shown on the plans.
- Topsoil salvaged from the existing site may be used provided that it meets the standards as set forth in these specifications. Typically, the depth of topsoil to be salvaged for a given soil type can be found in the representative soil profile section in the Soil Survey published by USDA—SCS in cooperation with Maryland Agricultural Experimental Station.

Construction and Material Specifications

- II. Topsoil Specifications Soil to be used as topsoil must meet the following:
- i. Topsoil shall be a loam, sandy loam, clay loam, silt loam, sandy clay loam, loamy sand. Other soils may be used if recommended by an agronomist or soil scientist and approved by the appropriate approval authority. Regardless, topsoil shall not be a mixture of contrasting textured subsoils and shall contain less than 5% by volume of cinders, stones, slag, coarse fragments, gravel, sticks, roots, trash, or other materials larger than 1 ½"
- ii. Topsoil must be free of plants or plant parts such as Bermuda grass, quack grass, Johnson
- iii.Where the subsoil is either highly acidic or composed of heavy clays, ground limestone shall be spread at the rate of 4—8 tons/acre (200—400 pounds per 1,000 square feet) prior to the placement of topsoil. Lime shall be distributed uniformly over designated areas and worked into the soil in conjunction with tillage operations as described in the
- III. For sites having disturbed areas under 5 acres:
- i. Place topsoil (if required) and apply soil amendments as specified in 20.0 Vegetative IV. For sites having disturbed areas over 5 acres:
- i. On soil meeting topsoil specifications, obtain test results dictating fertilizer and lime amendments required to bring the soil into compliance with the following:
- a. pH for topsoil shall be between 6.0 and 7.5. If the tested soil demonstrates a pH of less than 6.0, sufficient lime shall be prescribed to raise the pH to 6.5 or higher.
- b. Organic content of topsoil shall be not less than 1.5 percent by weight.
- c. Topsoil having soluble salt content greater than 500 parts per million shall not be used. d. No sod or seed shall be placed on soll which has been treated with soil sterilants or chemicals used for weed control until sufficient time has elapsed (14 days min.) to permit dissipation of phyto-toxic materials.
- Note: Topsoil substitutes or amendments, as recommended by a qualified agronomist or soil scientist nd approved by the appropriate approval authority, may be used in lieu of natural topsoil ii. Place topsoil (if required) and apply soil amendments as specified in 20.0 Vegetative
- i. When topsoiling, maintain needed erosion and sediment control practices such as diversion, Grade Stabilization Structures, Earth Dikes, Slope Silt Fence and Sediment Traps and Basins
- ii. Grades on the greas to be topsoiled, which have been previously established, shall be maintained
- iii.Topsoil shall be uniformly distributed in a 4" 8" layer and lightly compacted to a minimum thickness of 4". Spreading shall be performed in such a manner that sodding or seeding can proceed with a minimum of additional preparation and tillage. Any irregularities in the surface resulting from topsoiling or other operations shall be corrected in order to prevent the formation
- iv. Topsoil shall not be placed while the topsoil or subsoil is in a frozen or muddy condition, when the subsoil is excessively wet or in a condition that may otherwise be detrimental to proper grading and seedbed preparation. G-21-2
- VI. Alternative for Permanent Seeding Instead of applying the full arrounts of lime and commercial i. Composted Sludge Material for use as a soil conditioner for sites having disturbed areas over 5
- acres shall be tested to prescribed amendments and for sites having disturbed areas under 5 acres shall conform to the following requirements: a. Composted sludge shall be supplied by, or originate from, a person or persons that are permitted (at the time of acquisition of the compost) by the Maryland Department of the Environment under COMAR 26.04.06.
- b. Composted sludge shall contain at least 1 percent nitrogen, 1.5 percent phosphorus, and 0.2 percent potassium and have a pH of 7.0 to 8.0. If compost does not meet these requirements,
- the appropriate constituents must be added to meet the requirements prior to use. c. Composted sludge shall be applied at a rate of 1 ton/1,000 square feet. iv. Composted sludge shall be amended with a potassium fertilizer applied at the rate of 4 lb/1,000
- References: Guideline Specifications, Soil Preparation and Sodding. MD-VA, Pub. #1, Cooperative Extension Service, University of Maryland and Virginia Polytechnic Institutes. Revised 1973.

SEQUENCE OF CONSTRUCTION

- NOTIFY SEDIMENT CONTROL DIVISION 48 HOURS PRIOR TO START OF CONSTRUCTION -
- INSTALL SEDIMENT CONTROLS THAT ARE NOTED TO BE INSTALLED UNDER THIS SDP. DAY 9-12 EXCAVATE FOR FOUNDATION, ROUGH GRADE AND STABILIZE IN ACCORDANCE WITH TEMPORARY SEEDBED NOTES.
- DAY 13-20 CONSTRUCT UTILITIES. DAY 21-82 CONSTRUCT HOUSE, BACKFILL AND CONSTRUCT DRIVEWAY. DAY 83-87 FINAL GRADE AND STABILIZE IN ACCORDANCE WITH PERMANENT SEEDBED NOTES.
- DAY 88-91 WITH THE APPROVAL OF THE HOWARD COUNTY SEDIMENT CONTROL INSPECTOR REMOVE SEDIMENT CONTROL DEVICES AND STABILIZE ANY REMAINING DITURBET AREAS NOTE: 1. SEDIMENT CONTROL LOCATION AND IMPLEMENTATION SHOWN ON THESE PLANS IS SUBJECT TO REVISION IN THE FIELD AT THE DISCRETION OF THE SEDIMENT CONTROL INSPECTOR.
- THE DISTURBED AREA UPSTREAM OF THE PROPOSED 24" PIPE LOCATED AT THE REAR OF LOTS 3 AND 4 SHALL BE IMMEDIATELY STABILIZED WITH SOD.
- 4. THE DURATION OF EVENTS SHOWN IN THIS SEQUENCE ARE APPROXIMATE ONLY, THEY DO NOT REFLECT ACTUAL BUILDING TIMES AND WILL BE ADJUSTED DURING CONSTRUCTION BY THE BUILDER.

SECTION 7 - LOTS 1 THRU 3

RAINGARDEN

LOT 1	RG 1	RG 2	RG 3
ELEV. 1	382.00	385.80	389.00
ELEV. 2	381.50	385.30	388.50
ELEV. 3	381.00	384.80	388.00
ELEV. 4	380.83	384.63	387.83
ELEV. 5	378.16	381.96	385.16
ELEV. 6	377.66	381.46	384.66
ELEV. 7	377.46	381.08	383.48
OUTFALL PIPE	20' @ 1%	38' @ 1%	118' @ 1%

LOT 2	RG 1	RG 2	RG 3
ELEV. 1	388.80	393.00	397.10
ELEV. 2	388.30	392.50	396.60
ELEV. 3	387.80	392.00	396.10
ELEV. 4	387.63	391.83	395.93
ELEV. 5	384.96	389.16	393.26
ELEV. 6	384.46	388.66	392.76
ELEV. 7	384.06	387.26	389.46
OUTFALL PIPE	40' @ 1%	35' @ 4%	110' @ 3%

LOT 3	RG 1	RG 2
ELEV. 1	389.40	394.80
ELEV. 2	388.90	394.30
ELEV. 3	388.40	393.80
ELEV. 4	388.23	393.63
ELEV. 5	385.73	390.96
ELEV. 6	384.90	390.46
ELEV. 7	384.48	389.62
OUTFALL PIPE	42' @ 1%	42' @ 2%

RAIN GARDEN - PLANTING DATA

1. PLANTINGS WITHIN THE PONDING AREA OF THE RAIN GARDEN ARE TO BE OF A MEDIUM TO HIGH WATER TOLERANCE

CREEPING BUGLEWEED (AJUGA REPTANS) COMMON PERIWINKLE (VINCA MINOR) LILY-TURF (LIRIOPE, SP.)

- 2. PLANTINGS ALONG THE PERIMETER (BERM) AREA OF THE RAIN GARDEN ARE TO BE OF A LOW TO MEDIUM WATER TOLERANCE SUGGESTED SPECIES: (PERENNIALS/ANNUALS) IRIS (IRIS VERSICOLÒR) DAYLILY (HEMEROCALLIS SP.) WHITE GLORY (ASTIBLE SP.)
- 3. AVOID PLANTINGS WITH EXCESSIVE ROOT MASS IN POND AREA OF THE RAIN GARDEN NEAR OBS. PIPE AND UNDERDRAIN.

RAIN GARDEN - LANDSCAPE DATA

HYDROLOGIC ZONE 3 - REGULARLY INUNDATED SHORELINE FRINGE (HIGH MARSH) HYDROLOGIC CONDITION - 0" TO 1'-0" DEEP HARDINESS - TEMPERATE ZONE 6b (-5° TO 0°) SEE SHEET 2 FOR SEQUENCE OF CONSTRUCTION

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

_2~1'/'2~" Dia. GALVANIZED OR

2~1'/'2~" Dia. GALVANIZED OF

MARYLAND DEPARTMENT OF ENVIRONMENT
WATER MANAGEMENT ADMINISTRATION

DETAIL 33 - SUPER SILT FENCE

LAYER OF FILTER CLOTH OVER

PERSPECTIVE VIEW

CHAIN LINK FENCE

FILTER CLOTH ---

FLOW

EMBED FILTER CLOTH \$ -

MIN. 8" INTO GROUND

SHALL NOT EXCEED 10'

GROUND_ SURFACE

STANDARD SYMBOL

SECTION 9 - LOTS 1 THRU 4

RAINGARDEN ELEVATIONS

LOT 1	RG 1	RG 2
ELEV. 1	405.20	405.00
ELEV. 2	404.70	404.50
ELEV. 3	404.20	404.00
ELEV. 4	404.03	403.83
ELEV. 5	401.53	401.33
ELEV. 6	401.03	400.83
ELEV. 7	399.48	400.13
OUTFALL PIPE	155' @ 1%	70' @ 1%
ELEV. 3 ELEV. 4 ELEV. 5 ELEV. 6 ELEV. 7 OUTFALL	404.20 404.03 401.53 401.03 399.48	404.00 403.83 401.33 400.83 400.13

	LOT 3	RG1	RG 2
	ELEV. 1	407.70	407.00
	ELEV. 2	407.20	406.50
	ELEV. 3	406.70	406.00
,	ELEV. 4	406.53	405.83
	ELEV. 5	404.03	403.33
	ELEV. 6	403.53	402.83
٠.	ELEV. 7	402.83	402.71
•	OUTFALL PIPE	47' @ 1.5%	12' @ 1%

LOT 2	RG 1	RG 2
ELEV. 1	405.20	405.20
ELEV. 2	404.70	404.70
ELEV. 3	404.20	404.20
ELEV. 4	404.03	404.03
ELEV. 5	401.53	401.53
ELEV. 6	401.03	401.03
ELEV. 7	400.03	400.38
OUTFALL PIPE	100' @ 1%	65' @ 1%

וכ	KG 2	
.70	407.00	
.20	406.50	
.70	406.00	
.53	405.83	
.03	403.33	
.53	402.83	
.83	402.71	
1.5%	12' @ 1%	,
		•

PIPE	100 @ 170	00 @ 170
LOT 4	RG 1	RG 2
ELEV. 1	404.00	404.00
ELEV. 2	403.50	403.50
ELEV. 3	403.00	403.00
ELEV. 4	402.83	402.83
ELEV. 5	400.33	400.33
ELEV. 6	399.83	399.83
ELEV. 7	398.86	399.41
OUTFALL PIPE	65' @ 1.5%	28' @ 1.5%

OPERATION & MAINTENANCE SCHEDULE FOR RAIN GARDENS

1. ANNUAL MAINTENANCE OF PLANT MATERIAL AND MULCH LAYER IS REQUIRED. MAINTENANCE OF MULCH IS LIMITED TO CORRECTING AREAS OF EROSION OR WASH-OUT. ANY REPLACEMENT OF MULCH SHALL BE DONE IN THE SPRING. PLANT MATERIAL SHALL BE CHECKED FOR DISEASE & INSECT INFESTATION AND MAINTENANCE WILL ADDRESS DEAD MATERIAL & PRUNING.

2. SCHEDULE OF PLANT INSPECTION WILL BE TWICE A YEAR IN THE SPRING AND FALL. THIS INSPECTION WILL INCLUDE; REMOVAL OF DEAD & DISEASED VEGETATION CONSIDERED BEYOND TREATMENT; TREATMENT OF ALL DISEASED TREES & SHRUBS; AND REPLACEMENT OF ALL DEFICIENT STAKES & WIRES.

NEW LAYER ONCE EVERY 2 TO 3 YEARS. 4. SOIL EROSION TO BE ADDRESSED ON AN AS-NEEDED BASIS, WITH A MINIMUM OF ONCE PER MONTH AND AFTER HEAVY STORM EVENTS.

3. MULCH SHALL BE INSPECTED EACH SPRING. REMOVE THE PREVIOUS MULCH LAYER BEFORE APPLYING

MA	ATERIALS AND S	SPECIFICAT	IONS FOR RAIN GARDEN
MATERIAL	SPECIFICATION	SIZE	NOTES:
PLANTINGS	SEE APPENDIX A; TABLE A.4	N/A	PLANTINGS ARE SITE SPECIFIC
PLANTING SOIL (2.5' TO 4.0' DEEP)	SAND: 30-60% SILT: 30-55% CLAY: 0-25%	N/A	USDA SOIL TYPES: LOAMY SAND, SANDY LOAM OR LOAM
MULCH	SHREDDED HARDWOOD	N/A	AGED 6 MONTHS, MINIMUM
geotextile (Class "C")	APPARENT OPENING SIZE: (ASTM D-4751) GRAB TENSILE STRENGTH: (ASTM D-4632) PUNCTURE RESISTANCE: (ASTM D-4833)	N/A	FOR USE AS NECESSARY BENEATH UNDERDRAINS ONLY
UNDERDRAIN GRAVEL	AASHTO M-43	0.375" TO 0.750"	
UNDERDRAIN PIPING	F758, TYPE PS28 OR AASHTO M-278	4" TO 6" RIGID SCH.40 PVC, SDR35 OR HDPE	3/8" PERF. @ 6" O/C, 4 HOLES PER ROW; MINIMUM OF 3" OF GRAVEL OVER PIPES.

ALL SEDIMENT & EROSION CONTROL FEATURES ARE TO BE REPAIRED IMMEDIATELY IF DISRUPTED BY CONSTRUCTION ACTIVITY

SILT FENCE IS TO INSPECTED FREQUENTLY & CLEANED, REPAIRED AND/OR RE-INSTALLED IMMEDIATELY AS NECESSARY

SEDIMENT CONTROL LOCATION AND IMPLEMENTATION SHOWN ON THIS PLAN IS SUBJECT TO REVISIONS IN THE FIELD AT THE DISCRETION OF THE SEDIMENT CONTROL INSPECTOR

ALL SEDIMENT CONTROL FEATURES SHALL BE INSTALLED IN ACCORDANCE WITH STANDARD DETAILS SHOWN IN THE 1994 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL.

SUPER SILT FENCE

CONSTRUCTION SPECIFICATIONS

50 lbs/in (min.) 20 lbs/in (min.) 0.3 gal/ft /minute (max.)

Unlimited

200 feet

100 feet

100 feet

SUPER SILT FENCE DESIGN CRITERIA

Test: MSMT Test: MSMT

Unlimited

1,500 feet

1,000 feet

500 feet

U.S. DEPARTMENT OF AGRICULTURE PAGE MARYLAND DEPARTMENT OF ENVIRONMENT U.S. DEPARTMENT OF AGRICULTURE PAGE
SOIL CONSERVATION SERVICE F - 17 - 3

Filter cloth shall be embedded a minimum of 8" into the ground.

0 - 10:1

10:1 - 5:1

5:1 - 3:1

3:1 - 2:1

2:1 +

Flow Rate

0 - 10%

10 - 20%

33 - 50%

DETAIL 24 - STABILIZED CONSTRUCTION ENTRANCE Fencing shall be 42" in height and constructed in accordance with the latest Maryland State Highway Details for Chain Link Fencing. The specification for a 6' fence shall be used, substituting 42" fabric and 6' length posts. EARTH FILL PIPE AS NECESSAR MINIMUM 6° OF 2"-3" AGCREGATE OVER LENGTH AND WIDTH OF STRUCTURE. **GEOTEXTILE CLASS "C" OR BETTER Chain link fence shall be fastened securely to the fence posts with wire ties. The lower tension wire, brace and truss rods, drive anchors and post caps are not EXISTING GROUND PROFILE Filter cloth shall be fastened securely to the chain link fence with ties spaced every 24" at the top and mid section. *50' MINIMUM LENGTH PLAN VIEW Construction Specifications 1. Length - minimum of 50' (*30' for single residence lot). 2. Width— 10° minimum, should be flared at the existing road to provide a turning to placing stone. **The plan approval authority may not require single family Silt Fence Length residence to use geotextile.

4. Stone — crushed aggregate (2" to 3") or reclaimed or recycled concrete equivalent shall be placed at least 6" deep over the length and width of the 5. Surface Water - all surface water flowing to or diverted toward construction mounted berm with 5:1 slopes and a minimum of 6" of stone over the pipe. Pipe has to be sized according to the drainage. When the SCE is located at a high spot and has no drainage to convey a pipe will not be necessary. Pipe should be sized 6. Location - A stabilized construction entrance shall be located at every point where construction traffic enters or leaves a construction site. Vehicles leaving the site must travel over the entire length of the stabilized construction entrance

SWM SUMMARY TABLE GENERAL STORAGE REQUIREMENTS SECTION 7 F-04-104 Requirement Volume Required(ac-ft) Volume Provided(ac-ft) Water Quality Volume (WQv) 0.032 (1394 cf) 0.032 (1394 cf) WQv provided by raingarden & credits Recharge Volume (Rev) 0.008 (348 cf) 0.008 (348 cf) Rev provided by credits Channel Protection Volume (Cpv) Cpv release rate is < 2 cfs (0.77) N/A N/A Overbank Flood Protection Volume (Qp) Not required for this area N/A Extreme Flood Volume (Qf) Not required for this area

SWM SUMMARY TABLE					
GENERAL STORAGE REQUIREMENTS SECTION 8 F-04-102					
Requirement	Volume Required(ac-ft)	Volume Provided(ac-ft)	Notes		
Water Quality Volume (WQv)	0.0236 (1028 cf)	0.0236 (1028 cf)	WQv provided by credits and raingardens		
Recharge Volume (Rev)	0.0061 (266 cf)	0.0061 (266 cf)	Rev provided by credits		
Channel Protection Volume (Cpv)	N/A	N/A	Cpv release rate is < 2 cfs (0.97)		
Overbank Flood Protection Volume (Qp) N/A		N/A	Not required for this area		
Extreme Flood Volume (Qf)	N/A	N/A	Not required for this area		

SWM SUMMARY TABLE			
	GENERAL STORAGE REQUIREMENTS		
	SECTION 9	F-04-103	·
Requirement	Volume Required(ac-ft)	Volume Provided(ac-ft)	Notes
Water Quality Volume (WQv)	0.027 (1176 cf)	0.027 (1176 cf)	WQv provided by raingarden and credits
Recharge Volume (Rev)	0.007 (305cf)	0.007 (305cf)	Rev provided by credits
Channel Projection Volume (Gpv)	. N/A	N/A	Cpv release rate is < 2 cfs (0.33)
Overbank Flood Frotection Volume (Qp)	N/A	N/A	Not required for this area
Extreme Flood Volume (Qf)	N/A	N/A	Not required for this area

SECTION 8 - LOTS 1 AND 2

RAINGARDEN ELEVATIONS

LOT 1	RG 1	RG 2
ELEV. 1	392.70	392.00
ELEV. 2	392.20	391.50
ELEV. 3	391.70	391.00
ELEV. 4	391.53	390.83
ELEV. 5	388.53	387.83
ELEV. 6	388.03	387.33
ELEV. 7	387.43	386.93
OUTFALL PIPE	60' @ 1%	40' @ 1%

LOT 2	RG 1	RG 2	RG 3	RG 4
ELEV. 1	390.50	391.00	395.30	394.70
ELEV. 2	390.00	390.50	394.80	394.20
ELEV. 3	389.50	390.00	394.30	393.70
ELEV. 4	389.33	389.83	394.13	393.53
ELEV. 5	386,33	386.83	391.13	390.53
ELEV. 6	385.50	385.00	390.30	399.70
ELEV. 7	385.35	384.91	389.60	398.75
OUTFALL PIPE	15' @ 1%	9' @ 1%	70' @ 1%	95' @ 1%

REVISION NO. DATE

BENCHMARK ENGINEERS ▲ LAND SURVEYORS ▲ PLANNERS

ENGINEERING, INC. 8480 BALTIMORE NATIONAL PIKE A SUITE 418

Check: DAM

SCALE:

ELLICOTT CITY, MARYLAND 21043 FAX: 410-465-6644 PHONE: 410-465-6105 www.bei-civilengineering.com

DAWSON PROPERTY, LLC

P.O. BOX 417

PHONE: 410-465-4244

DORSEY FAMILY HOMES

9926 CYPRESSMEDE DRIVE

ELLICOTT CITY, MARYLAND 21043

PHONE: 410-465-7200

Design: DAM | Draft: EDD

ONWER/DEVELOPER:

COLUMBIA HILLS SECTION 7 LOTS 1-3, SECTION 8, LOTS 1 AND 2 SECTION 9, LOTS 1-4 ELLICOTT CITY, MARYLAND 21041

> HOWARD COUNTY, MARYLAND SEDIMENT AND EROSION CONTROL NOTES & DETAILS DATE: PROJECT NO. 1795

PARCEL 16

2nd ELECTION DISTRICT

SDP-05-076

DRAWING 6 OF 6

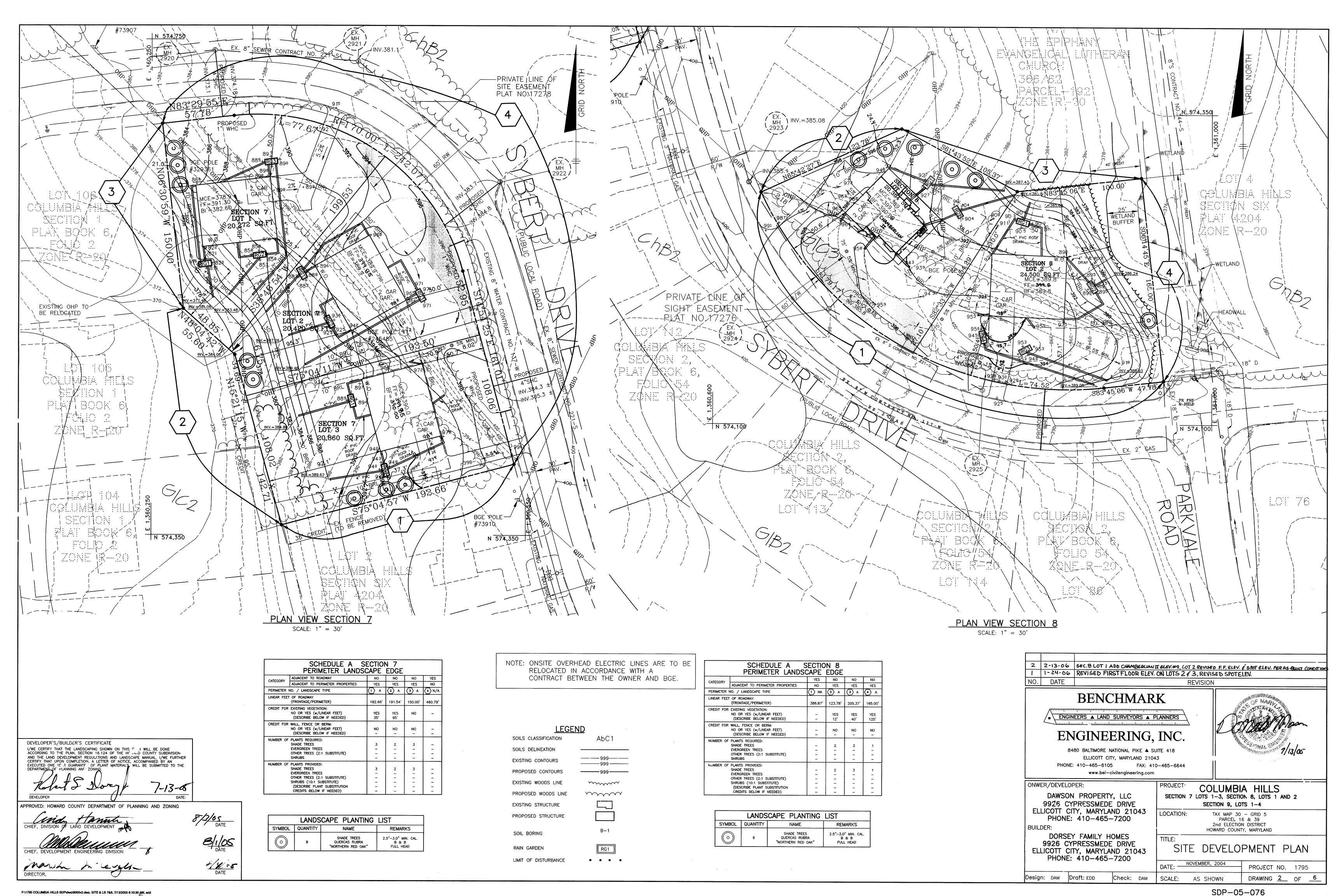
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THIS DEVELOPMENT PLAN IS APPROVED FOR EROSION AND SEDIMENT CONTROL BY REVIEWED FOR HOWARD SOIL CONSERVATION DISTRICT AND MEETS TECHNICAL 8/1/05

EROSION BEFORE BEGINNING THE PROJECT. ALSO AUTHORIZE PERIODIC ON-SITE INSPECTION BY THE HOWARD SOIL CONSERVATION DISTRICT." 7-13-05 BY THE ENGINEER: I CERTIFY THAT THIS PLAN FOR EROSION AND SEDIMENT CONTROL REPRISENTS A PRACTICAL AND WORKABLE PLAN BASED ON MY PERSONAL KNOWLEDGE OF THE SITE CONDITIONS AND THAT IT WAS PREPARED IN ACCORDANCE WITH THE REQUIREMENTS HOWARD SOIL CONSERVATION DISTRICT.

I/WE CERTIFY THAT ALL DEVELOPMENT AND CONSTRUCTION WILL BE DONE ACCORDING THIS PLAN, AND THAT ANY 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



GENERAL NOTES

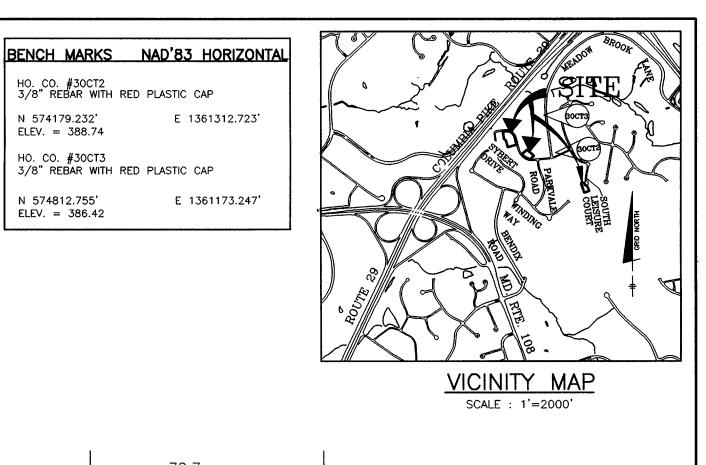
- ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE LATEST STANDARDS AND SPECIFICATIONS OF HOWARD COUNTY, PLUS MSHA STANDARDS AND SPECIFICATIONS IF APPLICABLE, UNLESS WAIVER(S)
- 2. THE CONTRACTOR SHALL NOTIFY THE DEPARTMENT OF PUBLIC WORKS/BUREAU OF ENGINEERING/ CONSTRUCTION INSPECTION DIVISION AT (410)313-1880 AT LEAST FIVE(5) WORKING DAYS PRIOR
- 3. THE CONTRACTOR SHALL NOTIFY "MISS UTILITY" AT 1-800-257-7777 AT LEAST 48 HOURS PRIOR TO
- 4. TRAFFIC CONTROL DEVICES, MARKINGS AND SIGNING SHALL BE IN ACCORDANCE WITH THE MOST CURRENT EDITION OF THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD). ALL STREET AND REGULATORY SIGNS SHALL BE IN PLACE PRIOR TO THE PLACEMENT OF ANY ASPHALT.
- STREET LIGHTS PLACEMENT AND TYPE OF FIXTURE & SIGNING SHALL BE IN ACCORDANCE WITH THE HOWARD COUNTY DESIGN MANUAL, VOL. III (1993) AND AS MODIFIED BY "GUIDELINES FOR STREET LIGHTS IN RESIDENTIAL DEVELOPMENTS (JUNE, 1993)"
- 6. EXISTING TOPOGRAPHY SHOWN HEREON WAS FIELD RUN BY BENCHMARK ENGINEERING, INC. DATED MAY 2003. CONTOUR INTERVAL IS 2 FEET.
- 7. THE COORDINATES SHOWN HEREON ARE BASED UPON THE HOWARD COUNTY GEODETIC CONTROL MONUMENTS 30CT2 & 30CT3, WHICH IS BASED ON THE MARYLAND STATE PLANE COORDINATE SYSTEM.
- THIS PROPERTY IS WITHIN THE METROPOLITAN DISTRICT. WATER AND SEWER SHALL BE PUBLIC, CONNECTING TO CONTRACTS 344-S AND 221-S FOR SEWER AND TO CONTRACT 137-W FOR WATER. DRAINAGE AREA IS WITHIN THE FATUXENT RIVER AREA WATERSHED.
- 9. STORMWATER MANAGEMENT SHALL BE PROVIDED FOR THIS PROJECT BASED ON GUIDELINES ESTABLISHED BY THE 2000 MARYLAND STORMWATER DESIGN MANUAL VOLUMES ! & II. STORMWATER MANAGEMENT SHALL BE PROVIDED IN ACCORDANCE WITH F-04-102, F-04-103 AND F-04-104 BY USE OF ROOFTOP
- 10. EXISTING UTILITIES SHOWN WERE LOCATED BY APPROVED CONTRACT DRAWINGS AND FIELD LOCATIONS.
- 11. PERIMETER LANDSCAPING IN ACCORDANCE WITH SECTION 16.124 OF THE HOWARD COUNTY CODE AND LANDSCAPE MANUAL SHALL BE PRCVIDED AS SHOWN ON THIS SITE PLAN. FINANCIAL SURETY WILL BE POSTED WITH THE BUILDERS' GRADING PERMIT.
 - A) SECTION 7 IN THE AMOUNT OF \$2,400 FOR 8 SHADE TREES. B) SECTION 8 IN THE AMOUNT OF \$1 800 FOR 6 SHADE TREES. C) SECTION 9 IN THE AMOUNT OF \$5,467 FOR 18 SHADE TREES
- 12. TO THE BEST OF OUR KNOWLEDGE, THERE ARE NO CEMETERY LOCATIONS ON-SITE.
- 13. UNLESS NOTED AS "PRIVATE", ALL EASEMENTS ARE PUBLIC.
- 14. BRL INDICATES BUILDING RESTRICTION LINE.
- 15. DRIVEWAYS SHALL BE PROVIDED PRIOR TO ISCUANCE OF A USE AND OCCUPANCY PERMIT FOR ANY NEW DWELLINGS FOR FIRE AND EMERGENCY VETTICLES PER THE FOLLOWING MINIMUM REQUIREMENTS: A) WIDTH - 12' (14' SERVING MORE THAN ONE RESIDENCE). SURFACE - 6" OF COMPACT CRUSHER RUN BASE WITH TAR AND CHIP COATING (1-1/2" MIN.) GEOMETRY - MAX. 15% GRADE, MAX. 10% GRADE CHANGE & MIN. 45' TURNING RADIUS.

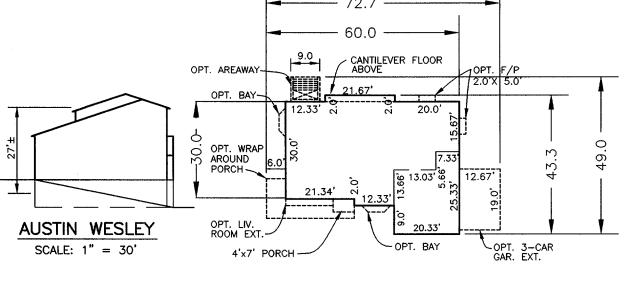
 STRUCTURES(CULVERTS/BRIDGES) - CAPABLE OF SUPPORTING 25 GROSS TONS (H25 LOAD)
- DRAINAGE ELEMENTS CAPABLE OF SAFELY PASSING 100 YEAR FLOOD WITH NO MORE THAN 1 FOOT DEPTH OVER DRIVEWAY SURFACE. F) STRUCTURE CLEARANCES - MINIMUM 12 FEET. S) MAINTENANCE - SUFFICIENT TO INSURE ALL WEATHER USE
- 16. THIS PLAN IS SUBJECT TO THE AMENDED 5th EDITION OF THE HOWARD COUNTY SUBDIVISION AND LAND DEVELOPMENT REGULATIONS PER COUNCIL BILL 45-203 AND THE HOWARD COUNTY ZONING REGULATIONS, AS AMENDED UNDER COUNCIL BILL 75-2003. 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.
- 17. SUBJECT PROPERTY IS ZONED R-20 PER 2-2-04 COMPREHENSIVE ZONING PLAN.
- 18. PREVIOUS APPLICABLE HOWARD COUNTY DPZ FILE REFERENCES FOR THIS PROJECT ARE F-04-102, F-04-103
- 19. CONTRACTOR SHALL VERIFY ALL UTILITY LOCATIONS PRIOR TO ANY CONSTRUCTION ACTIVITY AND SHALL ADJUST ALL UTILITIES AND RIM ELEVATIONS AS NEEDED TO MATCH THIS PLAN.
- 20. THE EX. 18' PRIVATE INGRESS & EGRESS R/W WAS ABANDONED BY DEED L8647/F361
- 21. IN ACCORDANCE WITH SECTION 128 OF THE HOWARD COUNTY ZONING REGULATIONS, BAY WINDOWS, CHIMNEYS OR EXTERIOR STAIRWAYS MORE THAN 16 FEET IN WIDTH MAY NOT PROJECT MORE THAN 4 FEET INTO ANY SETBACKS. PORCHES OR DECKS, OPEN OR ENCLOSED, MAY NOT PROJECT MORE THAN 10 FEET INTO THE FRONT OR REAR YARD SETBACK.
- 22. DRIVEWAY APRON TO BE CONSTRUCTED PER THE HOWARD COUNTY STANDARD DETAIL R6.06.
- 23. NO CLEARING, GRADING OR CONSTRUCTION IS PERMITTED WITHIN THE REQUIRED WETLANDS, STREAM(S) OR THEIR BUFFERS AND FOREST CONSERVATION EASEMENT AREAS.
- 24. THIS PROJECT COMPLIES WITH THE REQUIREMENTS OF SECTION 16.1200 OF THE HOWARD COUNTY CODE FOR FOREST CONSERVATION AS FOLLOWS SECTION 7 (F-04-104) BY PAYMENT OF A FEE IN LIEU IN THE AMOUNT OF \$15,246 FOR 30,492SF (0.7AC) SECTION 8 (F-04-102) NOTE#11 THIS SUBDIVISION IS EXEMPT FROM THE FOREST CONSERVATION REQUIREMENTS IN ACCORDANCE WITH SECTION 16.120(b)(I)(viii) OF THE HOWARD COUNTY CODE FOR A MINOR SUBDIVISION THAT CREATES ONE ADDITIONAL LOT WITH NO FURTHER SUBDIVISION POTENTIAL SECTION 9 (F-04-103) NOTE#11 BY PAYMENT OF A FEE IN LIEU IN THE AMOUNT OF \$21.780
- 25. FOR FLAG OR PIPESTEM LOTS, REFUSE COLLECTION, SNOW REMOVAL AND ROAD MAINTENANCE ARE PROVIDED TO THE JUNCTION OF THE FLAG OR PIPESTEM AND ROAD RIGHT-OF-WAY LINE AND NOT TO THE PIPESTEM LOT
- 26. THIS DEVELOPMENT IS DESIGNED TO BE IN ACCORDANCE WITH THE RECENTLY ADOPTED RESIDENTIAL INFILL DEVELOPMENT REGULATIONS AS ALLOWED IN THE AMENDED FIFTH EDITION 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 HOUSED.
- 27. THE RECORDED REAR BUILDING RESTRICTION LINE (BRL) FOR SECTION 9, LOT 4 COINCIDES WITH THE BOUNDARY OF THE 20' PUBLIC DRAINAGE UTILITY EASEMENT. THEREFORE, THE DISTANCE FROM THE REAR BUILDING RESTRICTION LINE TO THE REAR PROPERTY LINE OF LOT 4 WILL VARY IN DISTANCE, NOT TO BE LESS THAN 30 FEET PER ZONING REGULATIONS. SECTION 16.120.(b).(4).(v).b OF THE SUBDIVISION REGULATIONS PROHIBITS THE PLACEMENT OF RIP-RAP WITHIN THE BUILDING ENVELOPE.
- 27. THE RECORDED 35' SIDE BUILDING RESTRICTION LINE (BRL) FOR SECTION 8, LOT 2 COINCIDES WITH THE BOUNDARY OF THE 35' SETBACK FROM THE WETLAND BUFFER; THEREFORE, THE DISTANCE FROM THE SIDE BUILDING RESTRICTION LINE TO THE PROPERTY LINE OF LOT 2 WILL VARY IN DISTANCE, NOT TO BE LESS THAN 10 FEET PER THE ZONING REGULATIONS. SECTION 16.120.(b).(4).(iii).c OF THE SUBDIVISION REGULATIONS PROHIBITS THE BUILDING ENVELOPE TO BE NO CLOSER THAN 35 FEET FROM THE WETLAND BUFFER.
- 28. OPEN SPACE WAS PROVIDED BY PAYMENT OF A FEE IN LIEU OF OPEN SPACE IN THE AMOUNT OF \$1,500 FOR F-04-102, \$6,000 FOR F-04-103 AND \$3,000 FOR F-04-104.

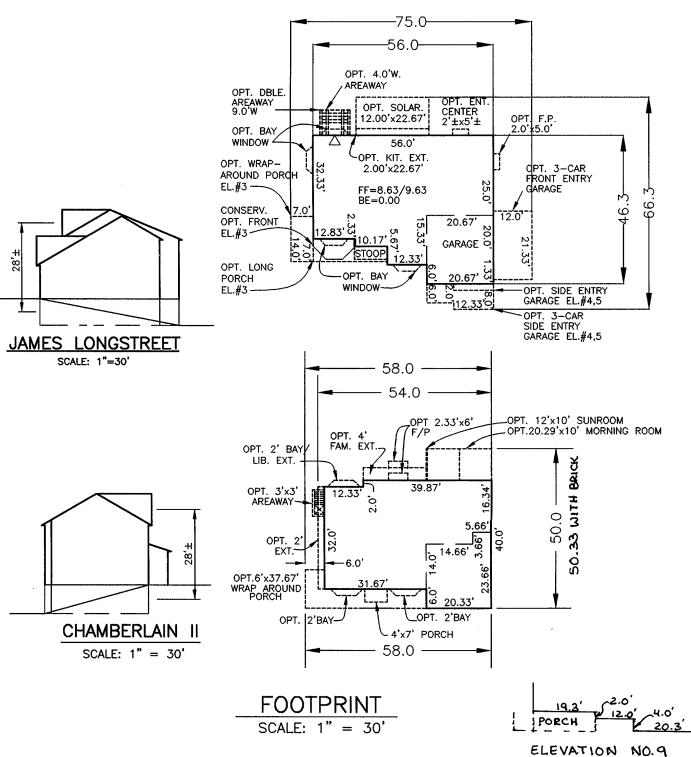
SITE DEVELOPMENT PLAN COLUMBIA HILLS SECTIONS 7-9 PARCEL 16 AND 39

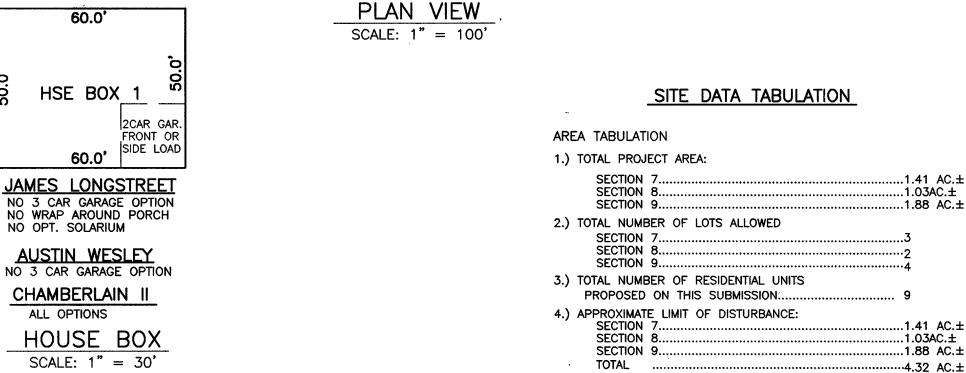
2nd ELECTION DISTRICT HOWARD COUNTY, MARYLAND











5.) AREA OF THIS PLAN SUBMISSION:

GENERAL SITE DATA

1.) PRESENT ZONING: R-20

2.) APPLICABLE DPZ FILE REFERENCES:

4.) PROPOSED WATER IS PUBLIC

PROPOSED SEWER IS PUBLIC

LIBER 9016, FOLIO 371 AND 372.

3.) PROPOSED USE OF SITE: SINGLE-FAMILY DETACHED

SECTION 1 SECTION 8

SECTION 9

.1.41 AC.±

..1.03AC.±

..1.88 AC.±

. 4.32 AC.±

SECTION 7- LIBER 8647, FOLIO 338, F-04-104 PLAT NO,17278

SECTION 8- LIBER 8647, FOLIO 338, F-04-102 PLAT NO.17276 SECTION 9- LIBER 8647, FOLIO 338, F-04-103 PLAT NO.17277

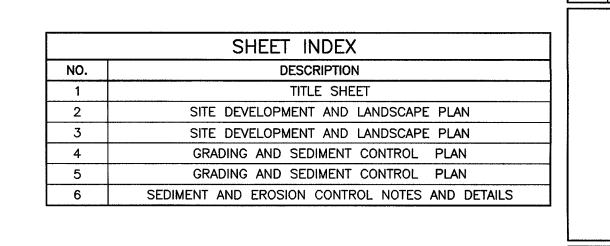
A. USE-IN COMMON EASEMENT FOR SECTION 9 LOTS 3 AND 4,

			SOIL	LS LEGEND	
MAP	SYMBOL	SOIL TYPE		MAPPING UNI	T
	ChB2	В	CHESTER SILT LOAM, 3	TO 8 PERCENT SLOPES, MOD	ERATELY ERODED
	GIC2	В	GLENELG LOAM, 8 TO 15	PERCENT SLOPES, MODERA	TELY ERODED
	MIB2	В	MANOR LOAM, 3 TO 8 P	ERCENT SLOPES, MODERATEL	Y ERODED
	MIC2	В	MANOR LOAM, 8 TO 15	PERCENT SLOPES, MODERATE	LY ERODED
	MIC3	В	MANOR LOAM, 8 TO 15	PERCENT SLOPES, SEVERELY	ERODED
	MID3	В	MANOR LOAM, 15 TO 25	PERCENT SLOPES, SEVEREL	Y ERODED
	ChB2	В	CHESTER SILT LOAM, 3	TO 8 PERCENT SLOPES, MOD	ERATELY ERODED

- INDICATES HYDRIC SOILS

MINIMUM LOT SIZE CHART SECTION 9

LOT NO. | GROSS AREA | PIPESTEM AREA | MIN. LOT SIZE



PERMIT INFORMATION CHART

ZONE

R-20

SECTION/AREA: | PARCEL #

TAX MAP

30

& 39

2nd

SUBDIVISION NAME:

WATER CODE

GRID No.

SOILS CLASSIFICATION

SOILS DELINEATION

EXISTING CONTOURS

PROPOSED CONTOURS

EXISTING WOODS LINE

EXISTING STRUCTURE

SOIL BORING

PROPOSED STRUCTURE

LIMIT OF DISTURBANCE

PROPOSED WOODS LINE

-----999 ——

999----

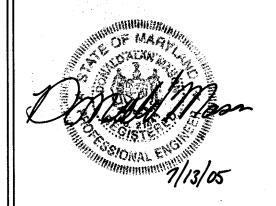
 \sim

-		9926 C ELLICOTT C	N PROPER YPRESSME CITY, MARYI E: 410-46
3	LOT SECTION 7 LOTS 1-3 SECTION 8 LOTS 1 AND 2 SECTINO 9 LOTS 1-4	BUILDER: DORSE	EY FAMILY YPRESSME
	CENSUS TRACT 6023.02	ELLICOTT C	
55	55400	Design: DAM	Draft: EDD

DATE REVISION **BENCHMARK** ENGINEERS A LAND SURVEYORS A PLANNERS

2-13-06 ADD ELEVATION NO. 9 TO FOOTPRINT FOR CHAMBERLAIN IL

ENGINEERING, INC. 8480 BALTIMORE NATIONAL PIKE A SUITE 418 ELLICOTT CITY, MARYLAND 21043 PHONE: 410-465-6105 FAX: 410-465-6644



www.bei-civilengineering.com ONWER/DEVELOPER: COLUMBIA HILLS DAWSON PROPERTY, LLC SECTION 7 LOTS 1-3, SECTION 8, LOTS 1 AND 2 CYPRESSMEDE DRIVE CITY, MARYLAND 21043 LOCATION: NE: 410-465-7200 SEY FAMILY HOMES

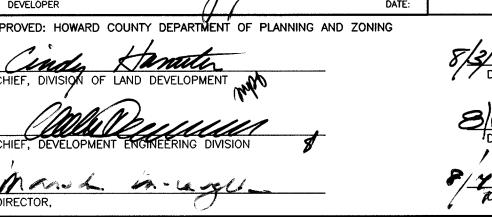
Check: DAM

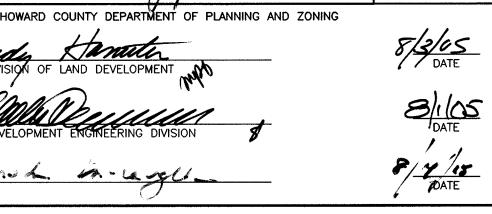
SCALE:

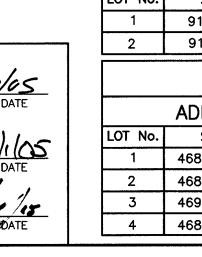
CYPRESSMEDE DRIVE CITY, MARYLAND 21043 NE: 410-465-7200

SECTION 9, LOTS 1-4 TAX MAP 30 - GRID 5 PARCEL 16 & 39 2nd ELECTION DISTRICT HOWARD COUNTY, MARYLAND SITE DEVELOPMENT PLAN NOVEMBER, 2004 PROJECT NO. 1795

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 SUBDIVISION
AND THE LAND DEVELOPMENT REGULATIONS AND LANDSCAPE MANUAL. I/WE FURTHER
CERTIFY THAT UPON COMPLETION, A LETTER OF NOTICE, ACCOMPANIED BY AN EXECUTED ONE YEAR GUARANTEE OF PLANT MATERIALS, WILL BE SUBMITTED TO THE
DEPARTMENT OF PLANNING AND ZONING.
7-13-05
DEVELOPER // DATE:
APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING
1. 14
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1







LOT No.	ADDRESS CHART STREET ADDRESS	
1	9120 SYBERT DRIVE	
2	9118 SYBERT DRIVE	
SECTION 9		
ADDRESS CHART		
LOT No.	STREET ADDRESS	
1	4682 SOUTH LEISURE DRIVE	
2	4686 SOUTH LEISURE DRIVE	
3	4690 SOUTH LEISURE DRIVE	
4	4685 SOUTH LEISURE DRIVE	

SECTION 7

ADDRESS CHART

STREET ADDRESS

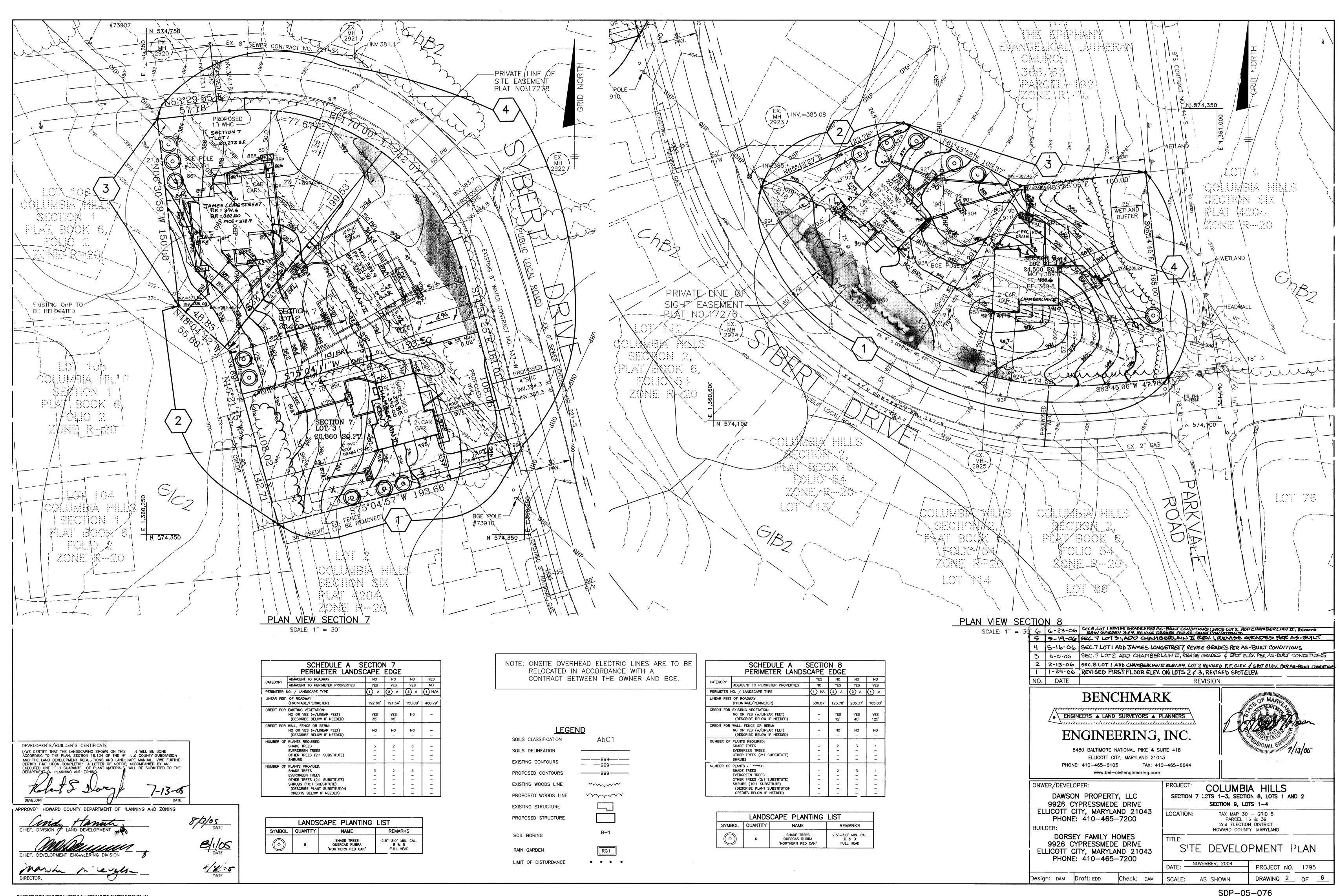
9141 SYBERT DRIVE

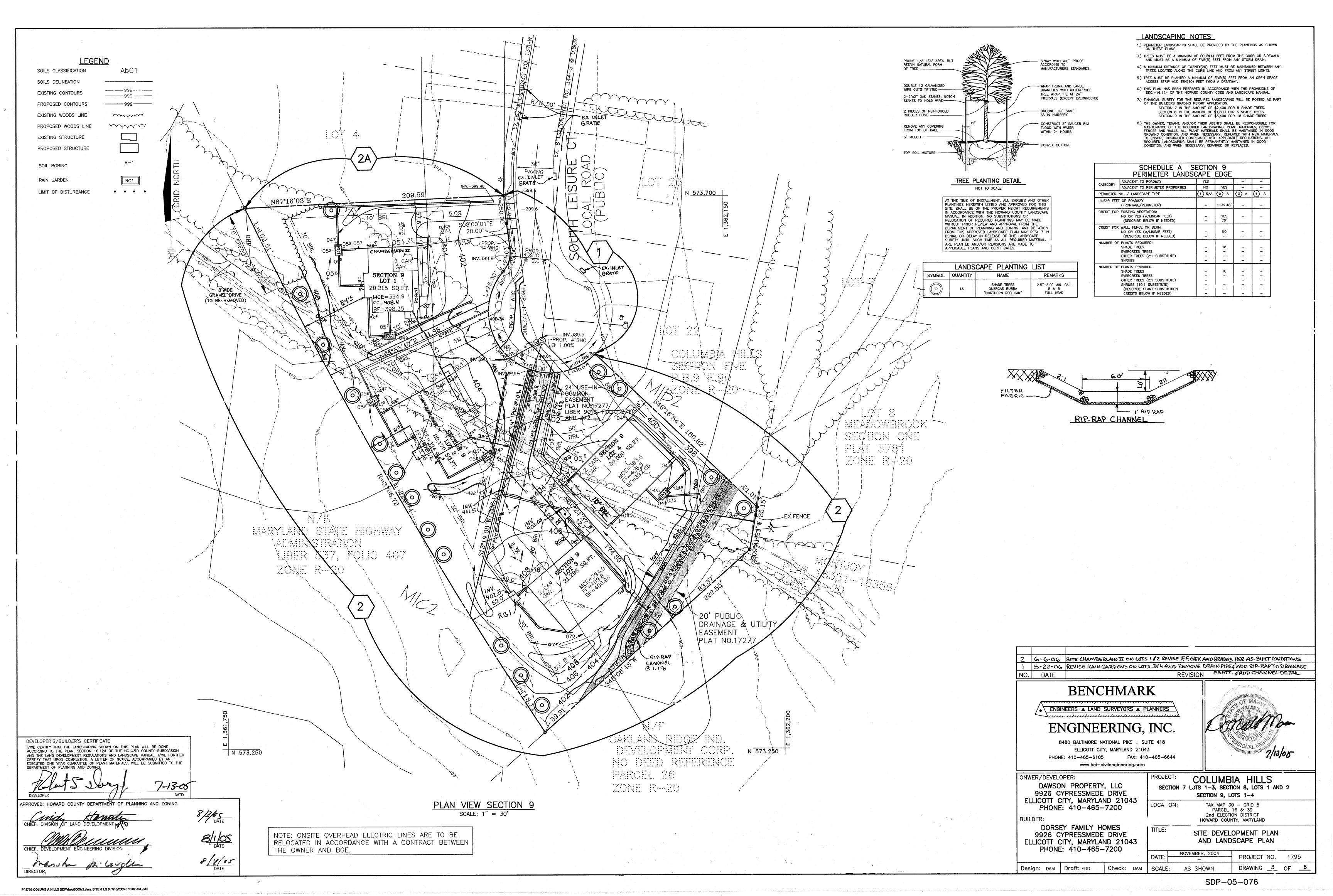
9137 SYBERT DRIVE

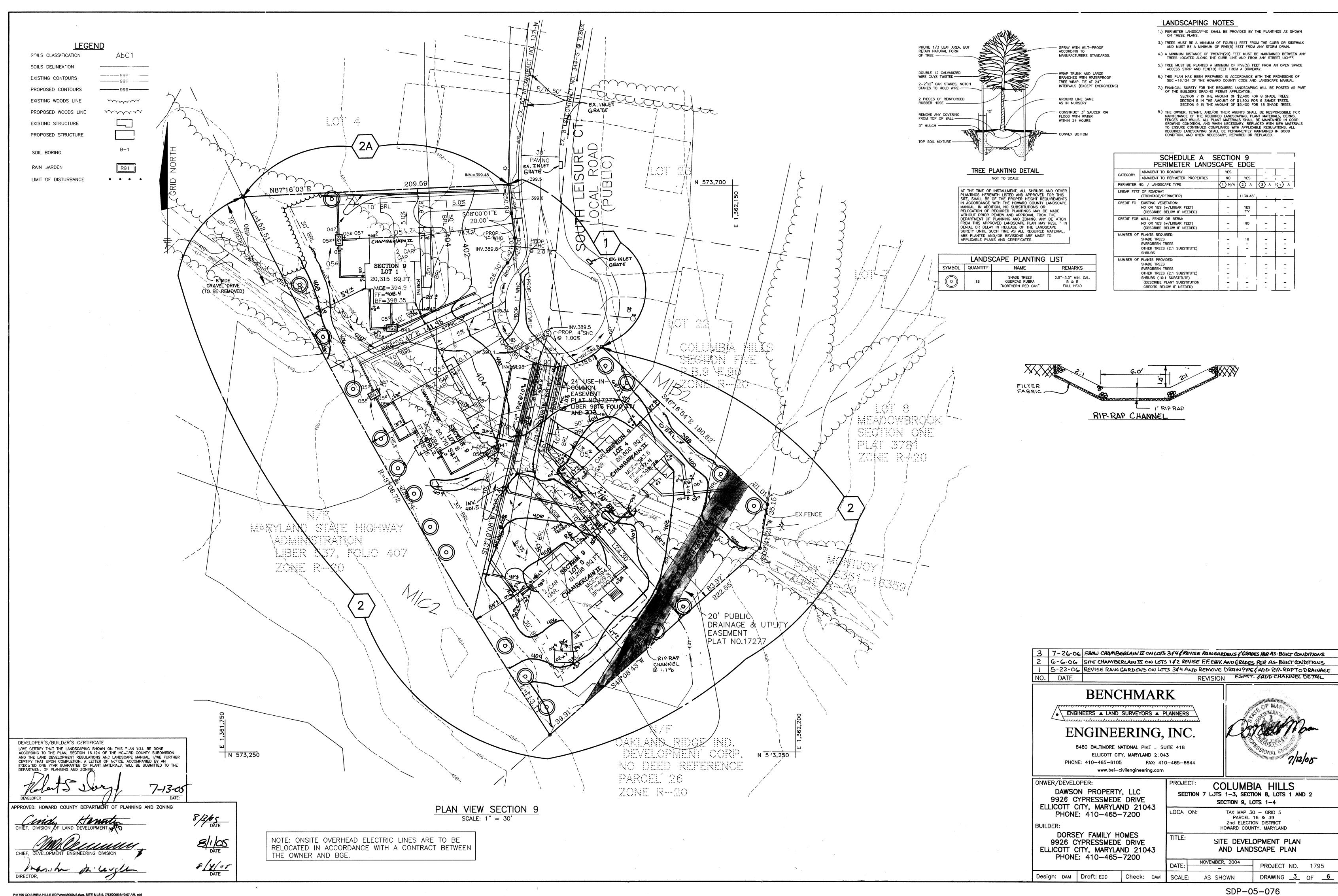
9133 SYBERT DRIVE

SECTION 8

DRAWING 1 OF 6







SEDIMENT CONTROL NOTES

- A MINIMUM OF 48 HOURS NOTICE MUST BE GIVEN TO THE HOWARD COUNTY TO THE START OF ANY CONSTRUCTION.
- ALL VEGETATIVE AND STRUCTURAL PRACTICES ARE TO BE INSTALLED ACCORDING TO THE PROVISIONS OF THIS PLAN AND ARE TO BE IN CONFORMANCE WITH THE 1994 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT
- FOLLOWING INITIAL SOIL DISTURBANCE OR REDISTURBANCE, PERMANENT OR TEMPORARY STABILIZATION SHALL BE COMPLETED WITHIN: A) 7 CALENDAR DAYS FOR ALL PERIMETER SEDIMENT CONTROL STRUCTURES, DIKES, PERIMETER SLOPES AND ALL SLOPES GREATER THAN 3:1, B) 14 DAYS AS TO ALL OTHER DISTURBED OR GRADED AREAS ON THE PROJECT SITE.
- ALL SEDIMENT TRAPS/BASINS SHOWN MUST BE FENCED AND WARNING SIGNS POSTED AROUND THEIR PERIMETER IN ACCORDANCE WITH VOL. 1, CHAPTER 12, OF THE HOWARD COUNTY DESIGN MANUAL, STORM DRAINAGE
- ALL DISTURBED AREAS MUST BE STABILIZED WITHIN THE TIME PERIOD SPECIFIED ABOVE IN ACCORDANCE WITH THE 1994 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL FOR PERMANENT SEEDINGS (SEC. 51) SOD (SEC. 54), TEMPORARY SEEDING (SEC. 50) AND MULCHING (SEC. 52). TEMPORARY STABILIZATION WITH MULCH ALONE CAN ONLY BE DONE WHEN RECOMMENDED SEEDING DATES DO NOT ALLOW FOR PROPER GERMINATION AND
- ALL SEDIMENT CONTROL STRUCTURES ARE TO REMAIN IN PLACE AND ARE TO BE MAINTAINED IN OPERATIVE CONDITION UNTIL PERMISSION FOR THEIR REMOVAL HAS BEEN OBTAINED FROM THE HOWARD COUNTY SEDIMENT CONTROL INSPECTOR. SITE ANALYSIS:

SECTION 7	
TOTAL AREA OF SITE	_1.41 ACRES
TOTAL AREA DISTURBED AREA TO BE ROOFED OR PAVED	_1.29 ACRES .30 ACRES
AREA TO BE VEGETATIVELY STABILIZED	.99 ACRES
TOTAL CUT	2200 CU. YDS.
TOTAL FILL	5154 CU. YDS. *ON-SITE STOCKPILE
OFFSITE HAUL	ON-SITE STOCKPILE
SECTION 8	
TOTAL AREA OF SITE	_1.03 ACRES
TOTAL AREA DISTURBED	93 ACRES
AREA TO BE ROOFED OR PAVED AREA TO BE VEGETATIVELY STABILIZED	<u>19</u> ACRES 74 ACRES
TOTAL CUT	1451 Cu. YDS.
TOTAL FILL	3150 CU. YDS.
OFFSITE HAUL	*ON-SITE STOCKPILE
SECTION 9	

- TOTAL AREA OF SITE TOTAL AREA DISTURBED AREA TO BE ROOFED OR PAVED AREA TO BE VEGETATIVELY STABILIZED
- ANY SEDIMENT CONTROL PRACTICE WHICH IS DISTURBED BY GRADING ACTIVITY FOR PLACEMENT OF UTILITIES MUST BE REPAIRED ON THE SAME DAY OF DISTURBANCE. ADDITIONAL SEDIMENT CONTROLS MUST BE PROVIDED, IF DEEN'TO NECESSARY BY THE HOWARD COUNTY SEDIMENT CONTROL INSPECTOR.
- 10. ON ALL SITES WITH DISTURBED AREAS IN EXCESS OF 2 ACRES, APPROVAL OF THE INSPECTION AGENCY SHALL BE REQUESTED UPON COMPLETION OF INSTALLATION OF PERIMETER EROSION AND SEDIMENT CONTROLS, BUT BEFORE PROCEEDING WITH ANY OTHER EARTH DISTURBANCE OR GRADING, OTHER BUILDING OR GRADING INSPECTION APPROVALS MAY NOT BE AUTHORIZED UNTIL THIS INITIAL APPROVAL BY THE
- TRENCHES FOR THE CONSTRUCTION OF UTILITIES ARE LIMITED TO THREE PIPE LENGTHS OR THAT WHICH CAN BE BACK FILLED AND STABILIZED WITHIN ONE * — IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO IDENTIFY AN OFF-SITE FILL AREA WITH AN APPROVED SEDIMENT & EROSION CONTROL PLAN.
- TEMPORARY SEEDBED PREPARATION
- SHORT-TERM VEGETATIVE COVER IS NEEDED SEEDBED PREPARATION: LOOSEN UPPER THREE INCHES OF SOIL BY RAKING, DISCING OR OTH F ACCEPTABLE MEANS BEFORE SEEDING, IF NOT PREVIOUSLY
- SOIL AMENDMENTS: APPLY 600 LBS PER ACRE 10-10-10 FERTILIZER (14
- SEEDING: FOR PERIOD MARCH 1 THROUGH APRIL 30 AND FROM AUGUST 15 THROUGH NOVEMBER 15, SEED WITH 2-1/2 BUSHELS PER ACRE OF ANNUAL RYE (3.2 LBS/1000 SQ FT). FOR THE PERIOD MAY 1 THROUGH AUGUST 14, SEED WITH 3 LBS PER ACRE OF WEEPING LOVEGRASS (.07 LBS/1000 SQ FT). FOR THE PERIOD NOVEMBER 16 THROUGH FEBRUARY 28, PROTECT SITE BY
- OF UNROTTED SMALL GRAIN STRAW IMMEDIATELY AFTER SEEDING. ANCHOR MULCH IMMEDIATELY AFTER APPLICATION USING MULCH ANCHORING TOOL OR 218 GALLONS PER ACRE (5 GAL/1000 SQ FT) OF EMULSIFIED ASPHALT ON FLAT AREAS. ON SLOPES, 8 FT. OR HIGHER, USE 348 GALLONS PER ACRE
- EROSION AND SEDIMENT CONTROL FOR RATE AND METHODS NOT COVERED.
- PERMANENT SEEDBED PREPARATION
- AMENDMENTS: IN LIEU OF SOIL TEST RECOMMENDATIONS, USE ON OF
- LBS PER ACRE 30-0-0- UREAFORM FERTILIZER (9 LBS/1000 SQ ACCEPTABLE - APPLY 2 TONS PER ACRE DOLOMITIC LIMESTONE
- DING: FOR THE PERIODS MARCH 1 THROUGH APRIL 30 AND AUGUS THROUGH OCTOBER 15, SEED WITH 60 LBS PER ACRE (1.4 LBS/1000 SQ FT) OF KENTUCKY 31 TALL FESCUE PER ACRE AND 2 LBS PER ACRE (.05 LBS/1000 SQ FT) OF WEEPING LOVEGRASS. DURING THE PERIOD OF OCTOBER 16 THROUGH FEBRUARY 28, PROTECT SITE BY: OPTION (1) 2 TONS PER ACRE OF WELL ANCHORED STRAW MULCH AND SEED AS SOON AS POSSIBLE IN THE SPRING. OPTION (2) USE SOD. OPTION (3) SEED WITH 60 LBS PER ACRE OF KENTUCKY 31 TALL FESCUE AND MULCH WITH 2 TONS PER ACRE OF WELL
- MULCHING: APPLY 1-1/2 TO 2 TONS PER ACRE (70 TO 90 LBS/1000 SQ FT) OF UNROTTED SMALL GRAIN STRAW IMMEDIATELY AFTER SEEDING. ANCHOR MULCH IMMEDIATELY AFTER APPLICATION USING MULCH ANCHORING TOOL OR 218 GALLONS PER ACRE (5 GAL/1000 SQ FT) OF EMULSIFIED ASPHALT ON FLAT AREAS. ON SLOPES 8 FEET OR HIGHER, USE 348 GALLONS PER ACRE (8 GAL/1000 SQ FT) FOR ANCHORING.

21.0 STANDARD AND SPECIFICATIONS FOR TOPSOIL

Placement of topsoil over a prepared subsoil prior to establishment of permanent vegetation. Purpose

To provide a suitable medium for vegetative growth. Soils of concern have low moisture content, low nutrient levels, low pH, materials toxic to plants, and/or unacceptable soi

Conditions Where Practice Applies

- This practice is limited to areas having 2:1 or flatter slopes where: a. The texture of the exposed subsoil/parent material is not adequate to produce
- The soil material is so shallow that the rooting zone is not deep enough to support plants or furnish continuing supplies of moisture and plant nutrients.
- d. The soil is so acidic that treatment with limestone is not feasible. II. For the purpose of these Standards and Specifications, areas having slopes steeper than 2:1 require special consideration and design for adequate stabilization. Areas having slopes steeper than 2:1 shall have the appropriate stabilization shown on the plans.

c. The original soil to be vegetated contains material toxic to plant growth.

- Topsoil salvaged from the existing site may be used provided that it meets the standards as set forth in these specifications. Typically, the depth of topsoil to be salvaged for a given soil type can be found in the representative soil profile section in the Soil Survey
- II. Topsoil Specifications Soil to be used as topsoil must meet the following i. Topsoil shall be a loam, sandy loam, clay loam, silt loam, sandy clay loam, loamy sand.
- Other soils may be used if recommended by an agronomist or soil scientist and approved by the appropriate approval authority. Regardless, topsoil shall not be a mixture of contrasting textured subsoils and shall contain less than 5% by volume of cinders, stones, slag, coarse fragments, gravel, sticks, roots, trash, or other materials larger than 1 12"
- ii. Topsoll must be free of plants or plant parts such as Bermuda grass, quack grass, Johnson grass, nutsedge, poison ivy, thistle, or others as specified.
- iii.Where the subsoil is either highly acidic or composed of heavy clays, ground limestone shall be spread at the rate of 4-8 tons/acre (200-400 pounds per 1,000 square feet) prior to the placement of topsoli. Lime shall be distributed uniformly over designated areas and worked into the soil in conjunction with tillage operations as described in the
- III. For sites having disturbed areas under 5 acres:
- Place topsoil (if required) and apply soil amendments as specified in 20.0 Vegetative Stabilization Section I Vegetative Stabilization Methods and Materials.
- IV. For sites having disturbed areas over 5 acres:
- i. On soil meeting topsoil specifications, obtain test results dictating fertilizer and lime amendments required to bring the soil into compliance with the following:
- a, pH for topsoil shall be between 6.0 and 7.5. If the tested soil demonstrates a pH of less than 6.0, sufficient lime shall be prescribed to raise the pH to 6.5 or higher.
- b. Organic content of topsoil shall be not less than 1.5 percent by weight.
- c. Topsoil having soluble salt content greater than 500 parts per million shall not be used. d. No sod or seed shall be placed on soil which has been treated with soil sterilants or chemicals used for weed control until sufficient time has elapsed (14 days min.) to
- Note: Topsoil substitutes or amendments, as recommended by a qualified agronomist or soil scientist and approved by the appropriate approval authority, may be used in lieu of natural topsoil ii. Place topsoil (if required) and apply soil amendments as specified in 20.0 Vegetative
- When topsoiling, maintain needed erosion and sediment control practices such as diversion, Grade Stabilization Structures, Earth Dikes, Slope Silt Fence and Sediment Traps and Basins. ii. Grades on the areas to be topsoiled, which have been previously established, shall be maintained,
- iii.Topsoil shall be uniformly distributed in a 4" 8" layer and lightly compacted to a minimum thickness of 4". Spreading shall be performed in such a manner that sodding or seeding can proceed with a minimum of additional preparation and tillage. Any irregularities in the surface resulting from topsoiling or other operations shall be corrected in order to prevent the formation
- iv. Topsoli shall not be placed while the topsoil or subsoil is in a frozen or muddy condition, when the subsoil is excessively wet or in a condition that may otherwise be detrimental to proper grading and seedbed preparation. G-21-2
- Alternative for Permanent Seeding Instead of applying the full amounts of lime and commercial fertilizer, composted studge and amendments may be applied as specified below: i. Composted Sludge Material for use as a soil conditioner for sites having disturbed areas over 5
- acres shall be tested to prescribed amendments and for sites having disturbed areas under 5 acres shall conform to the following requirements: a. Composted sludge shall be supplied by, or originate from, a person or persons that are
- b. Composted sludge shall contain at least 1 percent nitrogen, 1.5 percent phosphorus, and 0.2 the appropriate constituents must be added to meet the requirements prior to use
- c. Composted sludge shall be applied at a rate of 1 ton/1,000 square feet.
- square feet, and 1/3 the normal lime application rate. References: Guideline Specifications, Soil Preparation and Sodding. MD-VA, Pub. #1, Cooperative Extension Service, University of Maryland and Virginia Polytechnic Institutes. Revised 1973.

- SEQUENCE OF CONSTRUCTION
- DAY 2-8 INSTALL SEDIMENT CONTROLS THAT ARE NOTED TO BE INSTALLED UNDER THIS SDP. DAY 9-12 EXCAVATE FOR FOUNDATION, ROUGH GRADE AND STABILIZE IN ACCORDANCE WITH TEMPORARY SEEDBED NOTES.
- DAY 21-82 CONSTRUCT HOUSE, BACKFILL AND CONSTRUCT DRIVEWAY. DAY 83-87 FINAL GRADE AND STABILIZE IN ACCORDANCE WITH PERMANENT SEEDBED NOTES.
- DAY 88-91 WITH THE APPROVAL OF THE HOWARD COUNTY SEDIMENT CONTROL INSPECTOR, REMOVE SEDIMENT CONTROL DEVICES AND STABILIZE ANY REMAINING DITURBED AREAS.

NOTE: 1. SEDIMENT CONTROL LOCATION AND IMPLEMENTATION SHOWN ON THESE PLANS IS SUBJECT TO REVISION IN THE FIELD AT THE DISCRETION OF THE SEDIMENT CONTROL INSPECTOR.

- 2. EROSION CONTROL MATTING SHALL BE PLACED IN SWALES WHERE DEEMED NECESSARY UNTIL VEGETATION IS ESTABLISHED OR SOLID SOD SHOULD
- THE DISTURBED AREA UPSTREAM OF THE PROPOSED 24" PIPE LOCATED AT THE REAR OF LOTS 3 AND 4 SHALL BE IMMEDIATELY STABILIZED WITH SOD.
- 4. THE DURATION OF EVENTS SHOWN IN THIS SEQUENCE ARE APPROXIMATE ONLY, THEY DO NOT REFLECT ACTUAL BUILDING TIMES AND WILL BE ADJUSTED DURING CONSTRUCTION BY THE BUILDER.

SECTION 7 - LOTS 1 THRU 3

RAINGARDEN

LOT 1	RG 1	RG 2	RG 3
ELEV. 1	382.00	385.80	389.00
ELEV. 2	381.50	385.30	388.50
ELEV. 3	381.00	384.80	388.00
ELEV. 4	380.83	384.63	387.83
ELEV. 5	378.16	381.96	385.16
ELEV. 6	377.66	381.46	384.66
ELEV. 7	377.46	381.08	383.48
OUTFALL PIPE	20' @ 1%	38' @ 1%	118' @ 1%
LOT 2	RG 1	RG 2	RG 3
ELEV. 1	388.80	393.00	397.10

	<u>L</u>		
LOT 2	RG 1	RG 2	RG 3
ELEV. 1	388.80	393.00	397.10
ELEV. 2	388.30	392.50	396.60
ELEV. 3	387.80	392.00	396.10
ELEV. 4	387.63	391.83	395.93
ELEV. 5	384.96	389.16	393.26
ELEV. 6	384.46	388.66	392.76
ELEV. 7	384.06	387.26	389.46
OUTFALL PIPE	40' @ 1%	35' @ 4%	110' @ 3%

LOT 3	RG 1	RG 2
ELEV. 1	389.40	394.80
ELEV. 2	388.90	394.30
ELEV. 3	388.40	393.80
ELEV. 4	388.23	393.63
ELEV. 5	385.73	390.96
ELEV. 6	384.90	390.46
ELEV. 7	384.48	389.62
OUTFALL PIPE	42' @ 1%	42' @ 2%

RAIN GARDEN - PLANTING DATA

- 1. PLANTINGS WITHIN THE PONDING AREA OF THE RAIN GARDEN ARE TO BE OF A MEDIUM TO HIGH WATER TOLERANCE SUGGESTED SPECIES: CREEPING BUGLEWEED (AJUGA REPTANS)
- COMMON PERIWINKLE (VINCA MINOR) LILY-TURF (LIRIOPE, SP.) 2. PLANTINGS ALONG THE PERIMETER (BERM)
- AREA OF THE RAIN GARDEN ARE TO BE OF A LOW TO MEDIUM WATER TOLERANCE SUGGESTED SPECILS: (PERENNIALS/ANNUALS) IRIS (IRIS VERSICOLÓR) DAYLILY (HEMEROCALLIS SP.) WHITE GLORY (ASTIBLE SP.)
- 3. AVOID PLANTINGS WITH EXCESSIVE ROOT MASS IN POND AREA OF THE RAIN GARDEN NEAR OBS. PIPE AND UNDERDRAIN.

RAIN GARDEN - LANDSCAPE DATA

HYDROLOGIC ZONE 3 - REGULARLY INUNDATED SHORELINE FRINGE (HIGH MARSH) HYDROLOGIC CONDITION - 0" TO 1'-0" DEEP HARDINESS - TEMPERATE ZONE 66 (-5° TO 0°)

SEE SHEET 2 FOR SEQUENCE OF CONSTRUCTION NOTE: REFER TO MDE 2000 MD STORMWATER DESIGN MANUAL VOLUMES 1 & 2 FOR LANDSCAPE CONTRACTOR RESPONSIBILITIES, PRACTICES AND

16" MIN

8" MIN .--

DETAIL 33 - SUPER SILT FENCE

_ CHAIN LINK FENCE WITH ONE LAYER OF FILTER CLOTH OVER

FLOW

PERSPECTIVE VIEW

16" MIN. 1st LAYER

FLOW

FILTER CLOTH

EMBED FILTER CLOTH

STANDARD SYMBOL

SECTION 9 - LOTS 1 THRU 4

RAINGARDEN ELEVATIONS

LOT 1	RG 1	RG 2
ELEV. 1	405.20	405.00
ELEV. 2	404.70	404.50
ELEV. 3	404.20	404.00
ELEV. 4	404.03	403.83
ELEV. 5	401.53	401.33
ELEV. 6	401.03	400.83
ELEV. 7	399.48	400.13
OUTFALL PIPE	155' @ 1%	70' @ 1%
* PIPE INVE	RT SET AT 4	01.5
LOT 3	RG 1	RG2
ELEV. 1	406.5	406.0
ELEV. 2	406.5	406.0
ELEV. 3	406.0	405.53
ELEV. 4	405.83	405.36
ELEV. 5	403.33	402.86
ELEV. 6	402.5	402.03
ELEV. 7	400.5	461.5
OUTFALL PIPE	200'@ 1.0%	53 @ 1%

LOT 2	RG 1	RG 2
ELEV. 1	405.20	405.20
ELEV. 2	404.70	404.70
ELEV. 3	404.20	404.20
ELEV. 4	404.03	404.03
ELEV. 5	401.53	401.53
ELEV. 6	401.03	401.03
ELEV. 7	400.03	400.38
OUTFALL PIPE	100' @ 1%	65' @ 1%
LOTA	DO 4	DO 0

LOT 4	RG 1	RG2
ELEV. 1	405.7	404.00
ELEV. 2	405.7	403.50
ELEV. 3	405.2	403.00
ELEV. 4	405.03	402.83
ELEV. 5	402.53	400.33
ELEV. 6	401.38	399.83
ELEV. 7	400.5	399.41
OUTFALL PIPE	88 '@ 1.0 %	28' @ 1.5%

OPERATION & MAINTENANCE SCHEDULE FOR RAIN GARDENS

1. ANNUAL MAINTENANCE OF PLANT MATERIAL AND MULCH LAYER IS REQUIRED. MAINTENANCE OF MULCH IS LIMITED TO CORRECTING AREAS OF EROSION OR WASH-OUT. ANY REPLACEMENT OF MULCH SHALL BE DONE IN THE SPRING. PLANT MATERIAL SHALL BE CHECKED FOR DISEASE & INSECT INFESTATION AND MAINTENANCE WILL ADDRESS DEAD MATERIAL & PRUNING

2. SCHEDULE OF PLANT INSPECTION WILL BE TWICE A YEAR IN THE SPRING AND FALL. THIS INSPECTION WILL INCLUDE; REMOVAL OF DEAD & DISEASED VEGETATION CONSIDERED BEYOND TREATMENT: TREATMENT OF ALL DISEASED TREES & SHRUBS; AND REPLACEMENT OF ALL DEFICIENT STAKES & WIRES. 3. MULCH SHAL. BE INSPECTED EACH SPRING. REMOVE THE PREVIOUS MULCH LAYER BEFORE APPLYING

NEW LAYER ONCE EVERY 2 TO 3 YEARS. 4. SOIL EROSION TO BE ADDRESSED ON AN AS-NEEDED BASIS, WITH A MINIMUM OF ONCE PER MONTH AND AFTER HEAVY STORM EVENTS.

•	MATERIALS AND SPECIFICATIONS FOR PAIN GARDEN					
MATERIAL	SPECIFICATION	SIZE	NOTES:			
PLANTINGS	SEE APPENDIX A; TABLE A.4	N/A	PLANTINGS ARE SITE SPECIFIC			
PLANTING SOIL (2.5' TO 4.0' DEEP)	SAND: 30-60% SILT: 30-55% CLAY: 0-25%	N/A	USDA SOIL TYPES: LOAMY SAND, SANDY LOAM OR LOAM			
MULCH	SHREDDED HARDWOOD	N/A	AGED 6 MONTHS, MINIMUM			
GEOTEXTILE (CLASS "C")	APPARENT OPENING SIZE: (ASTM D-4751) GRAB TENSILE STRENGTH: (ASTM D-4632) PUNCTURE RESISTANCE: (ASTM D-4833)	N/A	FOR USE AS NECESSARY BENEATH UNDERDRAINS ONLY			
UNDERDRAIN GRAVEL	AASHTO M-43	0.375" TO 0.750"				
UNDERDRAIN PIPING	F758, TYPE PS28 OR AASHTO M-278	4" TO 6" RIGID SCH.40 PVC, SDR35 OR HDPE	3/8" PERF. @ 6" J/C, 4 HOLES PER ROW; MINIMUM OF 3" OF GRAVEL OVER PIPES.			

ALL SEDIMENT & EROSION CONTROL FEATURES ARE TO BE REPAIRED IMMEDIATELY IF DISRUPTED BY CONSTRUCTION ACTIVITY

SILT FENCE IS TO INSPECTED FREQUENTLY & CLEANED, REPAIRED AND/OR RE-INSTALLED IMMEDIATELY AS NECESSARY

SEDIMENT CONTROL LOCATION AND IMPLEMENTATION SHOWN ON THIS PLAN IS SUBJECT TO REVISIONS IN THE FIELD AT THE DISCRETION OF THE SEDIMENT CONTROL INSPECTOR

ALL SEDIMENT CONTROL FEATURES SHALL BE INSTALLED IN ACCORDANCE WITH STANDARD DETAILS SHOWN IN THE 1994 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL.

SUPER SILT FENCE

CONSTRUCTION SPECIFICATIONS

Fencing shall be 42" in height and constructed in accordance with the latest Maryland State Highway Details for Chain Link Fencing. The specification for a 6' fence shall be used, substituting 42" fabric and 6' length posts.

. Chain link fence shall be fastened securely to the fence posts with wire ties. The lower tension wire, brace and truss rods, drive anchors and post caps are not required except on the ends of the fence.

Filter cloth shall be fastened securely to the chain link fence with ties spaced every 24" at the top and mid section.

0 lbs/in (min.) 0 lbs/in (min.) .3 gal/ft/minute (max.)

Unlimited

200 feet

100 feet

Silt Fence Lengtl

1,500 feet

1,000 feet

500 feet

MARYLAND DEPARTMENT OF ENVIRONMENT
WATER MANAGEMENT ADMINISTRATION

SUPER SILT FENCE DESIGN CRITERIA

Filter cloth shall be embedded a minimum of 8" into the ground.

0 - 10:1

10:1 - 5:1

5:1 - 3:1

3:1 - 2:1

2:1 +

0 - 10%

10 - 20%

20 - 33%

33 - 50%

50% +

MARYLAND DEPARTMENT OF ENVIRONMENT U.S. DEPARTMENT OF AGRICULTURE WATER MANAGEMENT ADMINISTRATION SOIL CONSERVATION SERVICE

DETAIL 24 - STABILIZED CONSTRUCTION ENTRANCE **GEOTEXTILE CLASS "C" PROFILE PLAN VIEW

1. Length - minimum of 50' (*30' for single residence lot). 2. Width- 10' minimum, should be flared at the existing road to provide a turning

3. Geotextile fabric (filter cioth) shall be placed over the existing ground prior to placing stone. **The plan upproval authority may not require single family 4. Stone — crushed aggregate (2" to 3") or reclaimed or recycled concrete equivalent shall be placed at least 6" deep over the length and width of the 5. Surface Water - all surface water flowing to or diverted toward construction installed through the stabilized construction entrance shall be protected with a

mounted berm with 5:1 slopes and a minimum of 6" of stone over the pipe. Pipe ha to be sized according to the drainage. When the SCE is located at a high spot and has no drainage to convey a pipe will not be necessary. Pipe should be sized according to the amount of runoff to be conveyed. A 6" minimum will be required. 6. Location - A stabilized construction entrance shall be it cated at every point where construction traffic enters or leaves a construction site. Vehicles leaving the site must travel over the entire length of the stabilized construction entrance.

	SWM SUMMAF	RY TABLE	
	GENERAL STORAGE	REQUIREMENTS	
	SECTION 7	F-04-104	
Requirement	Volume Required(ac-ft)	Volume Provided(ac-ft)	Notes
Water Quality Volume (WQv)	0.032 (1394 cf)	0.032 (1394 cf)	WQv provided by raingarden & credits
Recharge Volume (Rev)	0.008 (348 cf)	0.008 (348 cf)	Rev provided by credits
Channel Protection Volume (Cpv)	N/A	N/A	Cpv release rate is < 2 cfs (0.77)
Overbank Flood Protection Volume (Qp)	N/A	N/A	Not required for this area
Extreme Flood Volume (Qf)	N/A	N/A	Not required for this area

SWM SUMMARY TABLE GENERAL STORAGE REQUIREMENTS					
	SECTION 8	F-04-102			
Requirement -	Volume Required(ac-ft)	Volume Provided(ac-ft)	Notes		
Water Quality Volume (WQv)	0.0236 (1028 cf)	0.0236 (1028 cf)	WQv provided by credits and raingardens		
Recharge Volume (Rev)	0.0061 (266 cf)	0.0061 (266 cf)	Rev provided by credits		
Channel Protection Volume (Cpv)	N/A	N/A	Cpv release rate is < 2 cfs (0.97)		
Overbank Flood Protection Volume (Qp)	N/A	N/A	Not required for this area		
Extreme Flood Volume (Qf)	N/A	N/A	Not required for this area		
CWW CLIMMARY TARLE					

SWM SUMMARY TABLE					
GENERAL STORAGE REQUIREMENTS					
	SECTION 9	F-04-103			
Requirement	Volume Required(ac-ft)	Volume Provided(ac-ft)	Notes		
Water Quality Volume (WQv)	0.027 (1176 cf)	0.027 (1176 cf)	WQv provided by raingarden and credits		
Recharge Volume (Rev)	0.007 (305cf)	0.007 (305ef)	Rev provided by credits		
Channel F 'ection Volume (Cpv)	N/A	N/A	Cpv release rate is < 2 cfs (0.33)		
Overbank Flood * otection Volume (Qp)	N/A	N/A	Not required for this area		
Extreme Flood Volume (Qf)	N/A	N/A	Not required for this area		

SECTION 8 - LOTS 1 AND 2

RAINGARDEN ELEVATIONS

LOT 1 、	RG 1	RG 2
ELEV. 1	392.70	392.00
ELEV. 2	392.20	391.50
ELEV. 3	391.70	391.00
ELEV. 4	391.53	390.83
ELEV. 5	388.53	387.83
ELEV. 6	388.03	387.33
ELEV. 7	387.43	386.93
OUTFALL PIPE	60' @ 1%	40' @ 1%

LOT 2	RG 1	RG 2	RG 3	RG 4
ELEV. 1	390.50	391.00	395.30	394.70
FLEV. 2	390.00	390.50	394.80	394.20
ELEV. 3	389.50	390.00	394.30	393.70
ELEV. 4	389.33	389.83	394.13	393.53
ELEV. 5	386.33	386.83	391.13	390.53
ELEV. 6	385.50	385.00	390.30	399.70
ELEV. 7	385.35	384.91	389.60	398.75
OUTFALL PIPE	15' @ 1%	9' @ 1%	70' @ 1%	95' @ 1%

5-22-06 REVISE ELEV. ON RAINGARDENS ON LOTS 3 & 4 NO. DATE

BENCHMARK

ENGINEERS A LAND SURVEYORS A PLANNERS

ENGINEERING, INC.

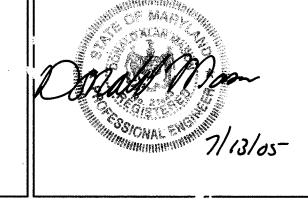
8480 BALTIMORE NATIONAL PIKE ▲ SUITE 418 ELLICOTT Cir', MARYLAND 21043 PHONE: 410-465-6105 FAX: 410-465-6644 www.bei-civilengineering.com

ONWER/DEVELOPER:

ELLICOTT CITY, MARYLAND 21043

PHONE: 410-465-7200

Draft: EDD



COLUMBIA HILLS DAWSON PROPERTY, LLC ECTION 7 LOTS 1-3, SECTION 8, LOTS 1 AND 2 P.O. BOX 417 SECHON 9, LOTS 1-4 ELLICOTT CITY, MARYLAND 21041 TAX MAP 30 - GRID 5 PHONE: 410-465-4244 PARCEL 16 2nd ELECTION DISTRICT HOWARD COUNTY, MARYLAND DORSEY FAMILY HOMES 9926 CYPRESSMEDE DRIVE

Check: DAM

SEDIMENT AND EROSION CONTROL NOTES & DETAILS PROJECT NO. 1795

DRAWING $\underline{6}$ OF $\underline{6}$ SCALE: AS SHOWN SDP-05-076

P:\1795 COLUMBIA HILLS SDP\dwq\8023.dwq, SED & ERO DETAILS, 7/13/2005 8:12:27 AM. edd

"I/WE CERTIFY THAT ALL DEVELOPMENT AND CONSTRUCTION WILL BE DONE ACCORDING TO THIS PLAN, AND THAT ANY 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. ALSO AUTHORIZE PERIODIC ON-SITE INSPECTION BY THE HOWARD SOIL CONSER ATION DISTRICT." 7-13-08 The same DAWSON PROPERTY, LLC 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 AND THAT IT WAS PREPARED IN ACCORDANCE WITH THE REQUIREMENTS OF THE HOWARD SOIL CONSERVATION DISTRICT.

THIS DEVELOPMENT PLAN IS APPROVED FOR EROSION AND SEDIMENT CONTROL BY

REVIEWED FOR HOWARD SOIL CONSERVATION DISTRICT AND MEETS TECHNICAL

8/1/05

DATE

APPLY TO GRADED OR CLEARED AREAS LIKELY TO BE REDISTURBED WHERE A

APPLYING 2 TONS PER ACRE OF WELL ANCHORED STRAW MULCH AND SEED AS SOON AS POSSIBLE IN THE SPRING, OR USE SOD. MULCHING: APPLY 1-1/2 TO 2 TONS PER ACRE (70 TO 90 LBS/1000 SQ FT)

(8 GAL/1000 SQ FT) FOR ANCHORING. REFER TO THE 1994 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL

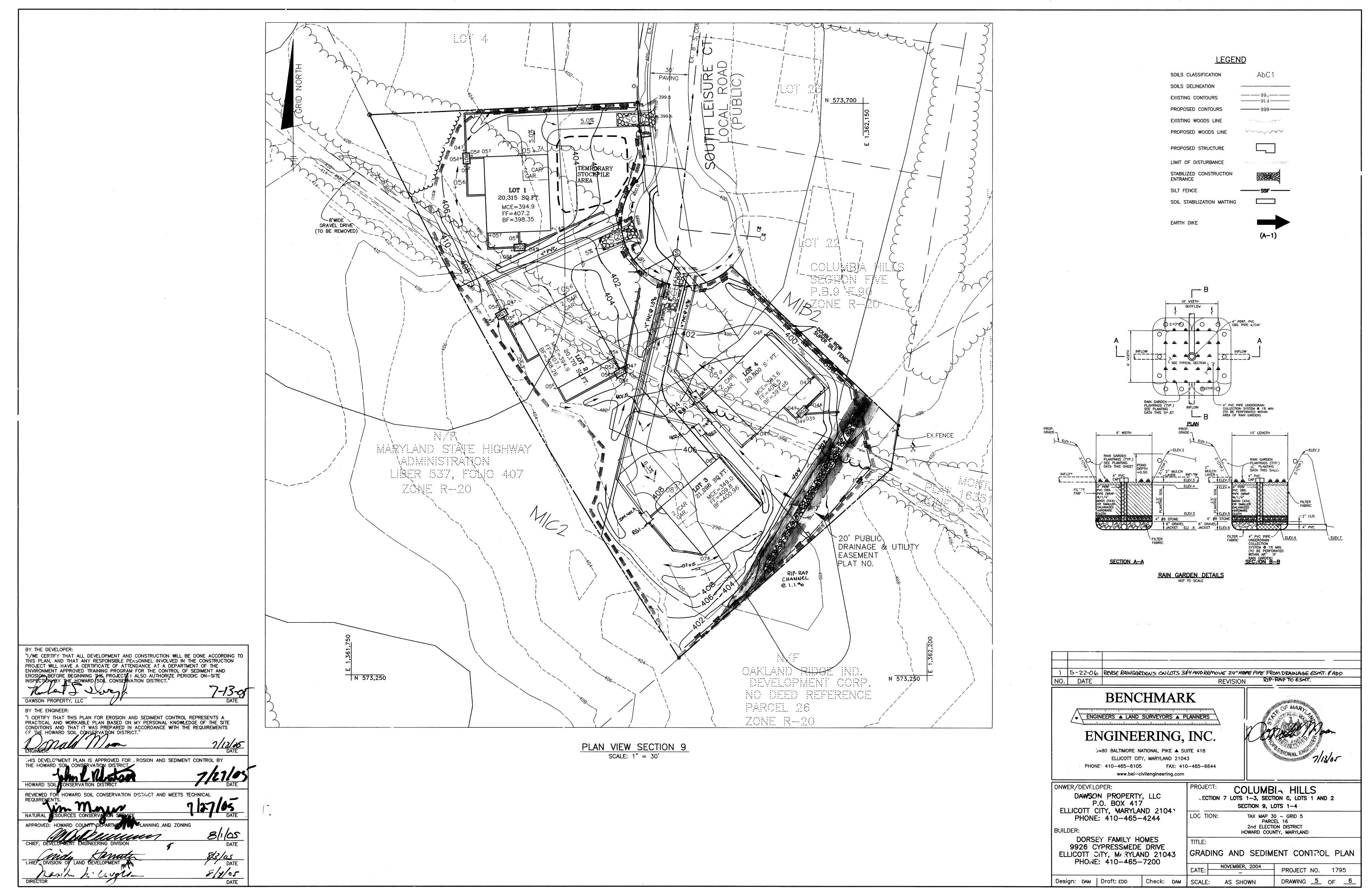
SEEDBED PREPARATION: LOOSEN UPPER THREE INCHES OF SOIL BY RAKING, DISCING OR OTHER ACCEPTABLE MEANS BEFORE SEEDING, IF NOT PREVIOUSLY

THE FOLLOWING SCHEDULES: PREFERRED - APPLY 2 TONS PER ACRE DOLOMITIC LIMESTONE (92 LBS/1000 SQ FT) AND 600 LBS PER ACRE 10-10-10 FERTILIZER (14 LBS/1000 SQ FT) BEFORE SEEDING. HARROW OR DISC INTO

(92 LBS/1000 SQ FT) AND 1000 LBS PER ACRE 10-10-10
FERTILIZER (23 LBS/1000 SQ FT) BEFORE SEEDING. HARROW OR DISC INTO UPPER THREE INCHES OF SOIL.

MAINTENANCE: INSPECT ALL SEEDED AREAS AND MAKE NEEDED REPAIRS, REPLACEMENTS AND RESEEDINGS.

REQUIREMEN'



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