## GENERAL NOTES

1.) THIS PROJECT IS IN CONFORMANCE WITH THE LATEST HOWARD COUNTY STANDARDS UNLESS

2.) THE SUBJECT PROPERTY IS ZONED R-ED PER THE 2-2-2004 COMPREHENSIZE ZONING PLAN AND THE "COMP LITE" ZONING AMENDMENTS EFFECTIVE 7-28-2006.

3.) COORDINATES BASED ON NAD '83, MARYLAND COORDINATE SYSTEM AS PROJECTED BY HOWARD COUNTY GEODETIC CONTROL STATIONS 31E6 AND 31E7. 4.) TRACT BOUNDARY IS BASED ON A FIELD RUN BOUNDARY SURVEY PERFORMED ON OR

ABOUT MARCH, 2000 BY CENTURY ENGINEERING, INC. AND VERIFIED BY BENCHMARK ENGINEERING, INC. IN OCTOBER, 2010.

5.) THE EXISTING TOPOGRAPHY SHOWN IS TAKEN FROM A FIELD RUN SURVEY BY BENCHMARK ENGINEERING, INC. IN OCTOBER 2010 AND FINAL PLAN F-11-034 APPROVED ON MARCH 30, 2011 WITH 2-FOOT CONTOUR INTERVALS

6.) A NOISE STUDY IS NOT REQUIRED FOR THIS PROJECT.

7.) AN APFO TRAFFIC STUDY IS NOT REQUIRED FOR THIS PROJECT AS IT IS LOCATED MORE THAN 1.5 MILES FROM THE NEAREST INTERSECTION OF TWO MAJOR COLLECTOR ROADWAYS. 8.) THIS PROPERTY IS LOCATED WITHIN THE METROPOLITAN DISTRICT.

9.) WATER IS PUBLIC. THE CONTRACT NUMBER IS 14-4290-D.

10.) SEWER IS PUBLIC. THE CONTRACT NUMBER IS 14-4290-D

11.) WATER AND SEWER SERVICE TO THESE LOTS WILL BE GRANTED UNDER THE PROVISIONS OF SECTION 18.122.B OF THE HOWARD COUNTY CODE. 12.) PUBLIC WATER AND SEWAGE ALLOCATIONS WILL BE GRANTED AT THE TIME OF ISSUANCE THE BUILDING PERMIT IF CAPACITY IS AVAILABLE AT THAT TIME.

13.) THERE IS NO WETLANDS, STREAMS, THEIR BUFFERS, 100-YEAR FLOODPLAIN OR STEEP SLOPES LOCATED ON THESE LOTS.

14.) TO THE BEST OF OUR KNOWLEDGE, THERE ARE NO CEMETERY LOCATIONS ON THESE LOTS. 15.) THERE ARE NO HISTORIC SITES/FEATURES LOCATED ON THESE LOTS.

16.) STORMWATER MANAGEMENT IS PROVIDED IN ACCORDANCE WITH THE 2000 MARYLAND STORMWATER DESIGN MANUAL. THIS PROJECT MEETS THE CRITERIA OUTLINED IN THE MDE GUIDELINES TO GRANT AN ADMINISTRATIVE WAIVER. THIS PLAN RECEIVED PRELIMINARY APPROVAL (SP-05-017) ON AUGUST 11, 2006 AND FINAL PLAN APPROVAL (F-11-034) ON MARCH 30, 2011. A GRADING PERMIT SHALL BE APPROVED PRIOR TO MAY 4, 2013. THIS PLAN IS ALSO SUBJECT TO THE EXPIRATION OF THIS WAIVER UNLESS STORMWATER PRACTICES ARE

STORMWATER MANAGEMENT FOR LOTS 1 thru 9 HAS BEEN PROVIDED BY A P-5 POCKET POND AND SHEETFLOW TO BUFFER CREDIT UNDER F-11-034. STORMWATER MANAGEMENT FOR LOTS 10 thru 14 IS PROVIDED ON-LOT BY RAINGARDENS AND NON-ROOFTOP DISCONNECTION. THE RAINGARDENS SHALL BE PRIVATELY OWNED AND PRIVATELY MAINTAINED.

17.) THIS PLAN HAS BEEN PREPARED IN ACCORDANCE WITH THE PROVISIONS OF SECTION 16.124 OF THE HOWARD COUNTY CODE AND THE HOWARD COUNTY LANDSCAPE MANUAL.

FINANCIAL SURETY FOR THE REQUIRED LANDSCAPING IS PART OF THE BUILDERS GRADING PERMIT APPLICATION IN THE AMOUNT OF \$1,050.00 FOR LOT 12.

FINANCIAL SURETY FOR THE REQUIRED LANDSCAPING IS PART OF THE BUILDERS GRADING PERMIT APPLICATION IN THE AMOUNT OF \$1,050.00 FOR LOT 14.

18.) FOREST CONSERVATION FOR THIS SITE WAS PREVIOUSLY PROVIDED UNDER SDP-05-017. 19.) 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 THE FLAG OR PIPESTEM LOT DRIVEWAY.

20.) DRIVEWAYS SHALL BE PROVIDED PRIOR TO RESIDENTIAL OCCUPANCY TO INSURE SAFE ACCESS FOR FIRE AND EMERGENCY VEHICLES PER THE FOLLOWING MINIMUM REQUIREMENTS:

a) WIDTH - 12' (16' SERVING MORE THAN ONE RESIDENCE). b) SURFACE - 6" OF COMPACT CRUSHER RUN BASE WITH TAR AND CHIP COATING (1-

b) GEOMETRY - MAXIMUM 15% GRADE, MAXIMUM 10% GRADE CHANGE AND MINIMUM 45'

TURNING RADIUS. d) STRUCTURES (CULVERTS/BRIDGES) - CAPABLE OF SUPPORTING 25 GROSS TONS

e) DRAINAGE ELEMENTS - CAPABLE OF SAFELY PASSING 100 YEAR FLOODPLAIN WITH NO MORE THAN 1 FOOT DEPTH OVER DRIVEWAY.

f) STRUCTURE CLEARANCES - MINIMUM 12 FEET. g) MAINTENANCE - SUFFICIENT TO INSURE ALL WEATHER USE.

21.) WAIVER PETITION (WP-06-007) A REQUEST TO WAIVE SECTION 16.120(b)(4)(iv) AND 16.121(e), TO PERMIT STORMWATER MANAGEMENT ACCESS TO BE LOCATED ON RESIDENTIAL LOTS, THE PIPESTEM AREAS OF PROPOSED LOTS 5-9 AND TO PERMIT THE SWMF FOR OUR LADY OF PERPETUAL HELP CHURCH TO BE LOCATED WITHOUT FRONTAGE ON A PUBLIC ROAD WAS APPROVED ON SEPTEMBER 22, 2005 AND NOVEMBER 15, 2005, RESPECTIVELY, SUBJECT

1. OUR LADY OF PERPETUAL HELP CHURCH/ARCHDIOCESE OF BALTIMORE ROMAN CATHOLIC CHURCH SHALL BE A PARTY IN THE SHARED ACCESS EASEMENT AND MAINTENANCE AGREEMENT FOR THE SHARED DRIVEWAY FOR LOT 5-9 AND THE CHURCH'S SWMF, AND SHALL ONLY USE THE SHARED DRIVEWAY TO ACCESS THE SWMF FOR MAINTENANCE OR REPAIR PURPOSES.

SDP-11-034.

WORKING DAYS PRIOR TO THE START OF ANY WORK.

HOURS PRIOR TO ANY EXCAVATION WORK BEING DONE.

22.) 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 ANY WORK.

23.) THE CONTRACTOR SHALL NOTIFY "MISS UTILITY" AT 1-800-257-7777 AT LEAST 48 HOURS PRIOR TO ANY EXCAVATION WORK BEING DONE.

24.) THE DECISION AND ORDER FOR PB372 (SP-05-017) WAS SIGNED MAY 25, 2006 FOR 14 RESIDENTIAL LOTS IN AN R-ED DISTRICT. 25.) BOARD OF APPEALS REFERENCES: BA CASE 83-39E, BA CASE 90-24E AND BA CASE 01-51C. THE CONDITION OF 01-51C INDICATED THAT THE CONDITIONAL USE APPLIES ONLY TO

THE PROPOSED MULTI-PURPOSE BUILDING AND SITE IMPROVEMENTS. 26.) A PRIVATE RANGE OF ADDRESS SIGN ASSEMBLY FOR THE FLAG LOT DRIVEWAY IN THE CUL-DE-SAC SHALL BE FABRICATED AND INSTALLED BY HOWARD COUNTY BUREAU OF

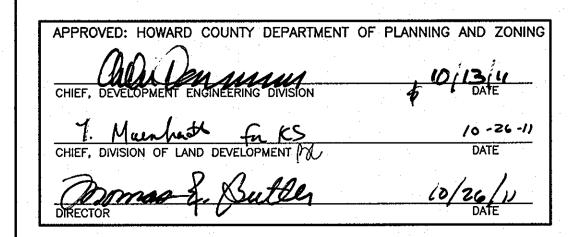
HIGHWAYS AT THE DEVELOPERS/OWNERS EXPENSE WHERE NEEDED. CONTACT HOWARD COUNTY TRAFFIC DIVISION AT 410-313-5752 FOR DETAILS AND COST ESTIMATES. 27.) UNINTERRUPTED ACCESS TO THE EXISTING DRIVE ALONG THE SOUTH SIDE OF LOT 1 MUST

BE AVAILABLE AT ALL TIMES DURING CONSTRUCTION OF HOUSE ON LOT 1. 28.) ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE LATEST STANDARDS AND SPECIFICATIONS OF HOWARD COUNTY PLUS MSHA STANDARDS AND SPECIFICATIONS IF

29.) EXISTING UTILITIES ARE BASED ON FIELD SURVEY LOCATION BY BENCHMARK ENGINEERING, INC., PER F-03-150, AND PER F-11-034.

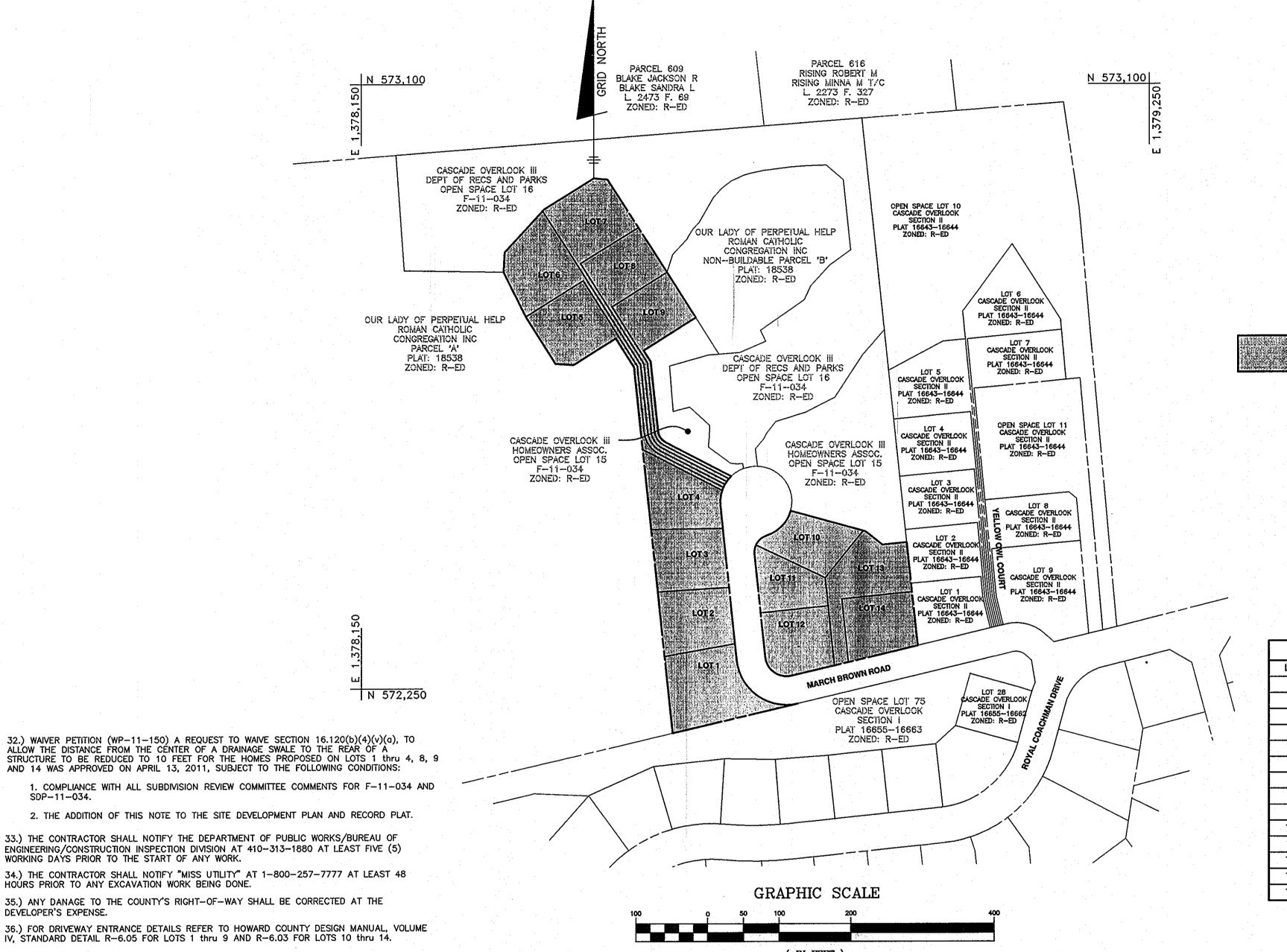
WINDOWS, CHIMNEYS OR EXTERIOR STAIRWAYS NOT MORE THAN 16 FEET IN WIDTH MAY PROJECT NOT MORE THAN 4 FEET INTO ANY SETBACKS. PORCHES OR DECKS, OPEN OR ENCLOSED MAY PROJECT NOT MORE THAN 10 FEET INTO THE FRONT OR REAR YARD SETBACK. 31.) THE SETBACK REQUIREMENT FOR THE REAR PORTIONS OF LOTS 1-6 AND LOT 9 IS THE STANDARD STRUCTURE SETBACK IN THE R-ED DISTRICT OF 25 FEET FROM THE REAR LOT LINE AS DETERMINED BY THE DEPARTMENT OF PLANNING AND ZONING ON MARCH 8, 2011.

30.) IN ACCORDANCE OF SECTION 128 OF THE HOWARD COUNTY ZONING REGULATIONS, BAY



# RESIDENTIAL SITE DEVELOPMENT PLAN CASCADE OVERLOOK, SECTION III

LOTS 1 thru 14

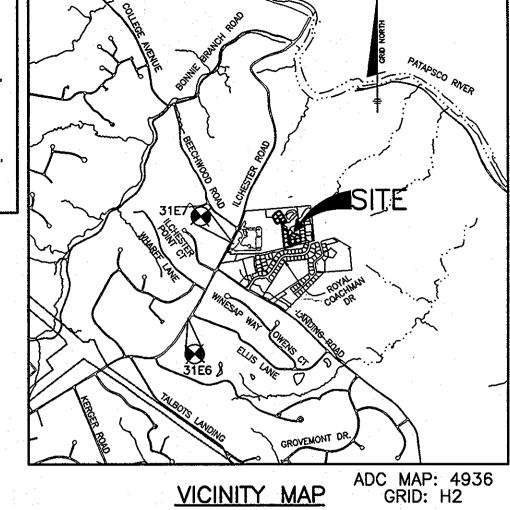


1 inch = 100 ft.

BENCH MARKS NAD'83 3/4" REBAR 0.5' BELOW SURFACE 5' SOUTHWEST OF ILCHESTER ROAD PAVING 500'± WEST OF WHARF LANE. N 570852.3717' E 1376700.6467' 3/4" REBAR 0.5' BELOW SURFACE 9' SOUTHEAST OF ILCHESTER ROAD PAVING 250'± WEST OF BEECHWOOD ROAD

N 572335.3503' E 1377504.0332'

ELEV. 364.78' HO. CO. BM#2745004 USED FOR VERTICAL CONTROL.



LEGEND

LIMIT OF SUBMISSION

ADDRESS CHART STREET ADDRESS 4915 MARCH BROWN ROAD MARCH BROWN ROAD 4919 4923 MARCH BROWN ROAD 4927 MARCH BROWN ROAD 4945 MARCH BROWN ROAD 4949 MARCH BROWN ROAD 4948 MARCH BROWN ROAD 4944 MARCH BROWN ROA! 4940 MARCH BROWN ROAD 4926 MARCH BROWN ROAD 4922 MARCH BROWN ROAL . 12 4918 MARCH BROWN ROAD 4914 MARCH BROWN ROAD 4910 MARCH BROWN ROAL

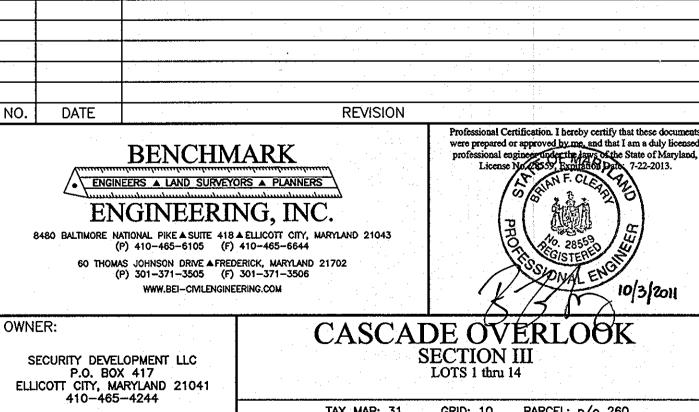
## SITE ANALYSIS DATA CHART

	i i
1.) TOTAL PROJECT AREA	_ 2.92 AC.
2.) AREA OF PLAN SUBMISSION	_ 2.92 AC.
3.) LIMIT OF DISTURBED AREA	_2.76 AC.
4.) PRESENT ZONING:	_R-ED
5.) PROPOSED USE OF SITE:	_RESIDENTIAL SFD HOMES
6.) TOTAL NUMBER OF UNITS ALLOWED AS SHOWN ON FINAL PLAT(S)	_14
7.) TOTAL NUMBER OF UNITS PROPOSED	_14
8.) NUMBER OF PARKING SPACES REQUIRED BY HO. CO. ZONING REGS AND/OR FDP CRITERIA	_ N/A
9.) NUMBER OF PARKING SPACES PROVIDED ONSITE (INCLUDES HANDICAPPED SPACES)	_ N/A
10.) OPEN SPACE ON-SITE	_PROVIDED UNDER F-11-034 _N/A
11.) AREA OF RECREATIONAL OPEN SPACE REQUIRED AREA OF RECREATIONAL OPEN SPACE PROVIDED	
12.) APPLICABLE DPZ FILE REFERENCES:	_SP-05-017, F-03-150, PB 372 F-11-034, WP-11-150
 13.) BUILDING COVERAGE OF SITE	_N/A _N/A
14.) FLOOR SPACE ON EACH LEVEL OF BLDG PER USE_	_N/A
15.) MAXIMUM NUMBER OF EMPLOYEES, TENANTS ON SITE PER USE	_N/A

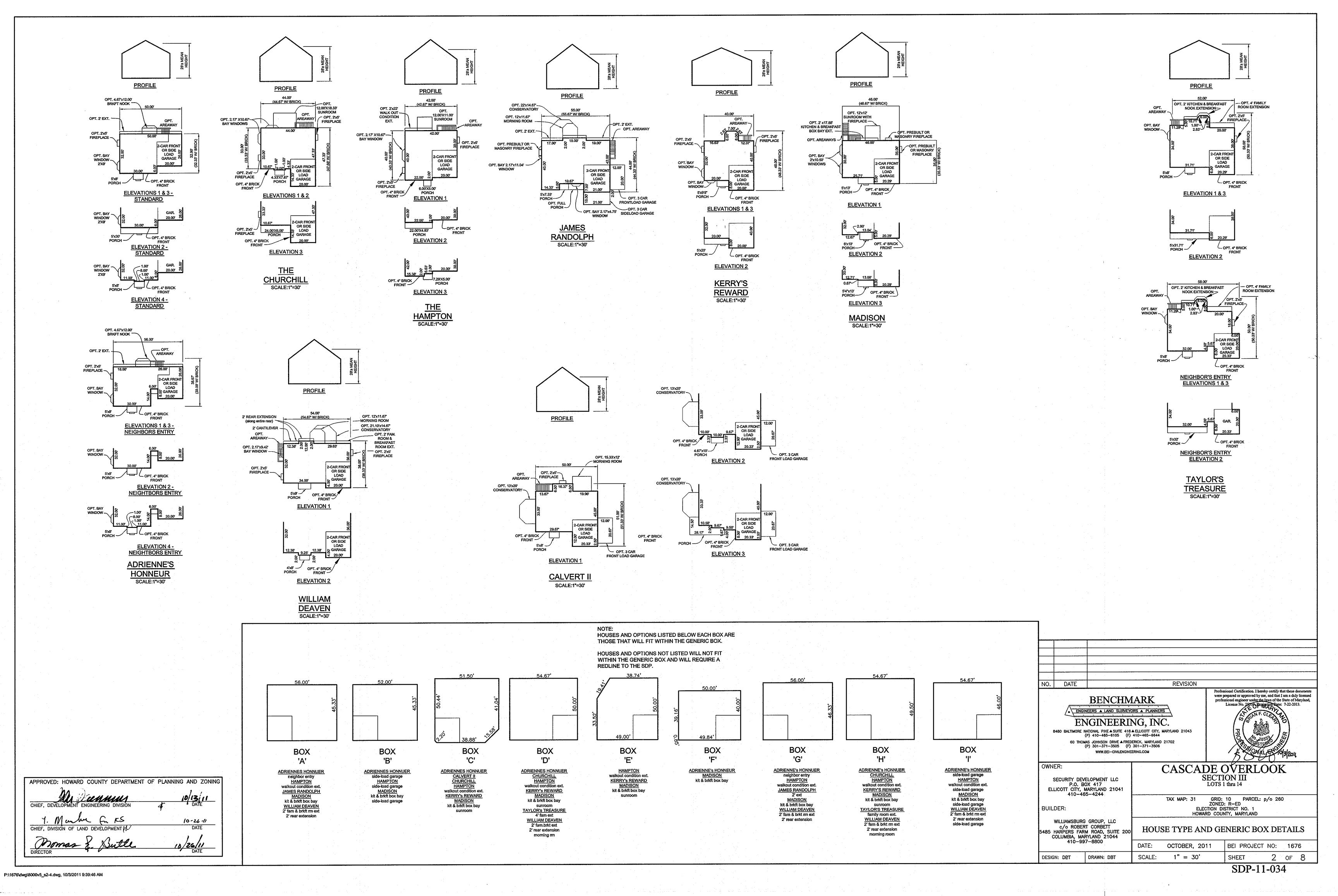
	SHEET INDEX
SHEET	TITLE
1	TITLE SHEET
2	HOUSE FOOTPRINTS
3	SITE DEVELOPMENT, GRADING AND LANDSCAPING PLAN
4	SITE DEVELOPMENT AND GRADING PLAN
5	GRADING, SEDIMENT & EROSION CONTROL PLAN
6	GRADING, SEDIMENT & EROSION CONTROL PLAN
7	SEDIMENT & EROSION CONTROL NOTES AND DETAILS
8	RAIN GARDEN DETAILS

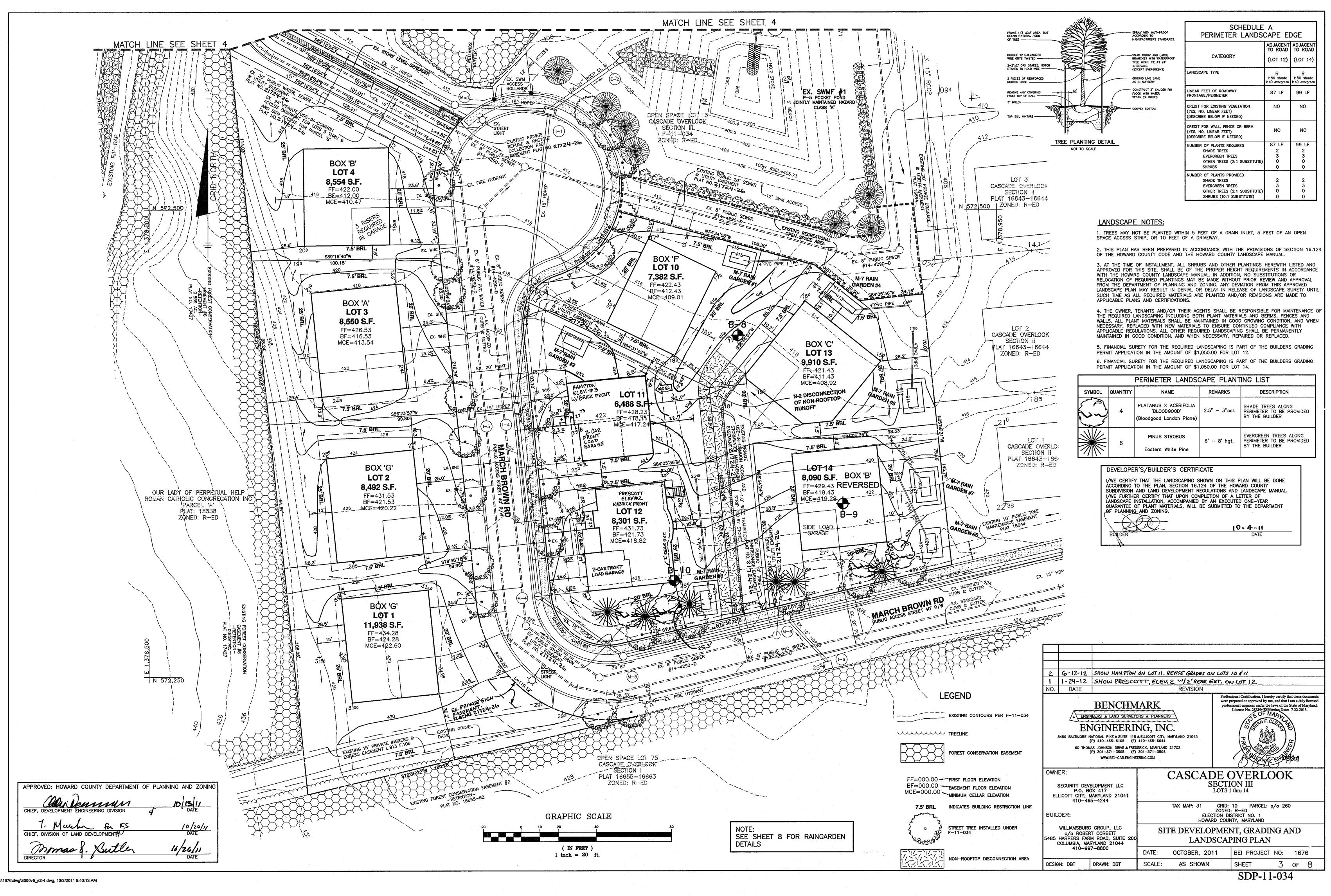
	STORMWATER MANAGEMENT PRACTICE CHART (SDP-11-034 Cascade Overlook, Section 3)															
LOT NUMBER	ADDRESS		PERMEABLE PAVEMENTS		DISCONNECTION OF ROOFTOP RUNOFF	DISCONNECTION OF NON-ROOFTOP RUNOFF	SHEETFLOW TO CONSERVATION AREAS	RAINWATER HARVESTING	SUBMERGED GRAVEL WETLANDS	LANSCAPE INFILTRATION	INFILTRATION BERMS	DRY WELLS	MICRO- BIORETENTION	RAIN GARDENS	SWALES	ENHANCED FILTERS
		A-1	A-2	A-3	N-1	N-2	N-3	M-1	M-2	M-3	M-4	M-5	M-6	M-7	M-8	M-9
		(Y/N)	(Y/N)	(Y/N)	(QUANTITY)	(Y/N)	(Y/N)	(QUANTITY)	(QUANTITY)	(QUANTITY)	(QUANTITY)	(QUANTITY)	(QUANTITY)	(QUANTITY)	(QUANTITY)	(QUANTITY)
10	4926 March Brown Road	N	N	N	N	N	N	N	N	N	N	N	N	Y	N	N
11	4922 March Brown Road	N	N	N	N	N	N	N	N	N	N.	N	N	Y	N	N
12	4918 March Brown Road	N	N	N	N	N	N	N	N	N	N	N	N	Y	N	N
13	4914 March Brown Road	N	N	N	N	Y	N	N	N	N	N	N	N	Y (2)	N	N
14	4910 March Brown Road	N	N	N	N	N	N	N	N	N	N	N	N	Y (2)	N	N

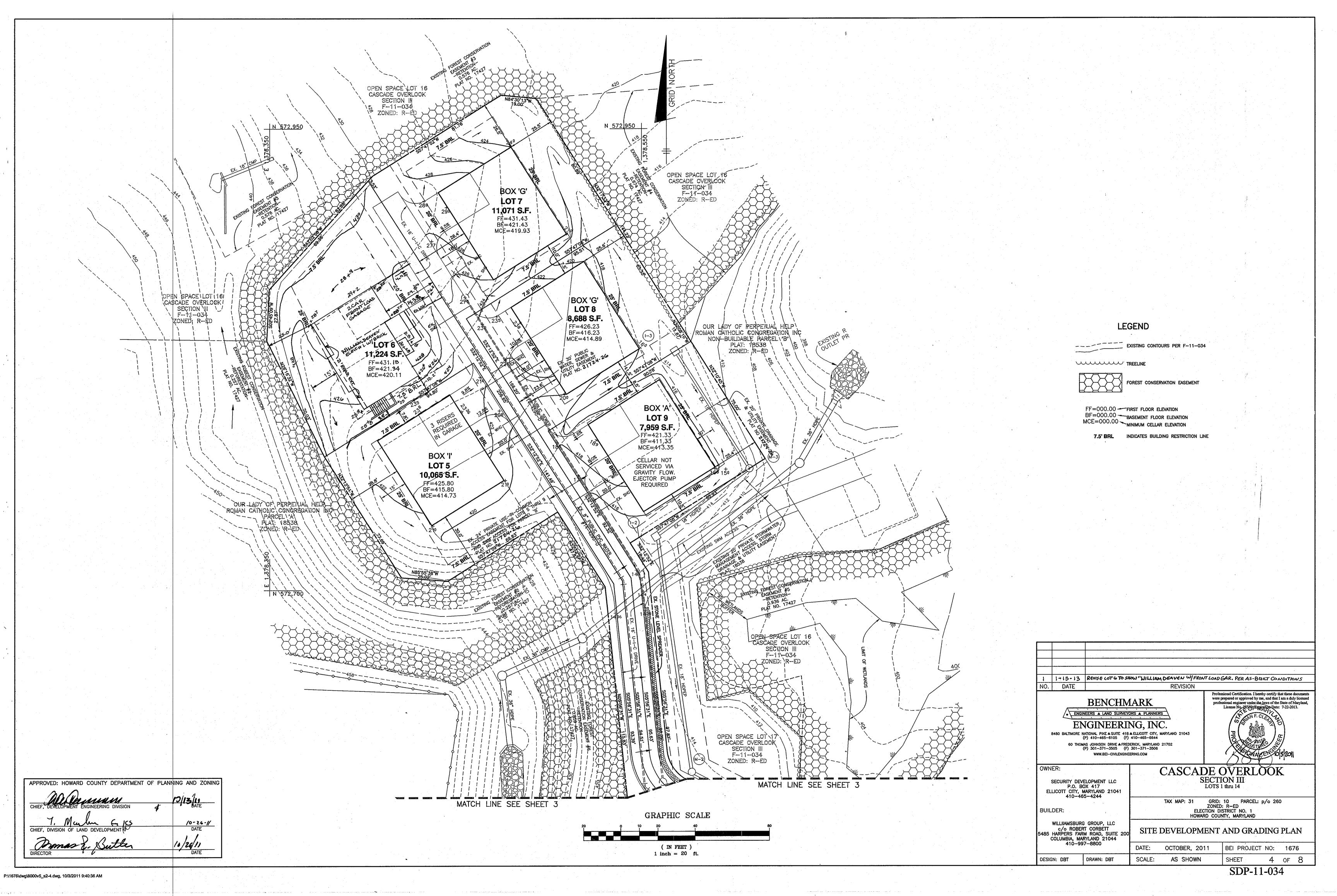
1			.:			110 100	J 1211	
	PERMI	BUILDER:						
SUBDIVISION NAME: CASCADE		.00K	SECTION/		LOT/PARCEL # p/o 260	WILLIAMSBURG GROUP, LLC c/o ROBERT CORBETT 5485 HARPERS FARM ROAD, SUITE COLUMBIA, MARYLAND 21044		
PLAT No. OR L/F			TAX MAP NO	ELECTION DISTRICT	CENSUS TRACT		9978800	
21724-26	10	R-ED	31	1	6011.11	DESIGN: DBT	DRAWN: DBT	

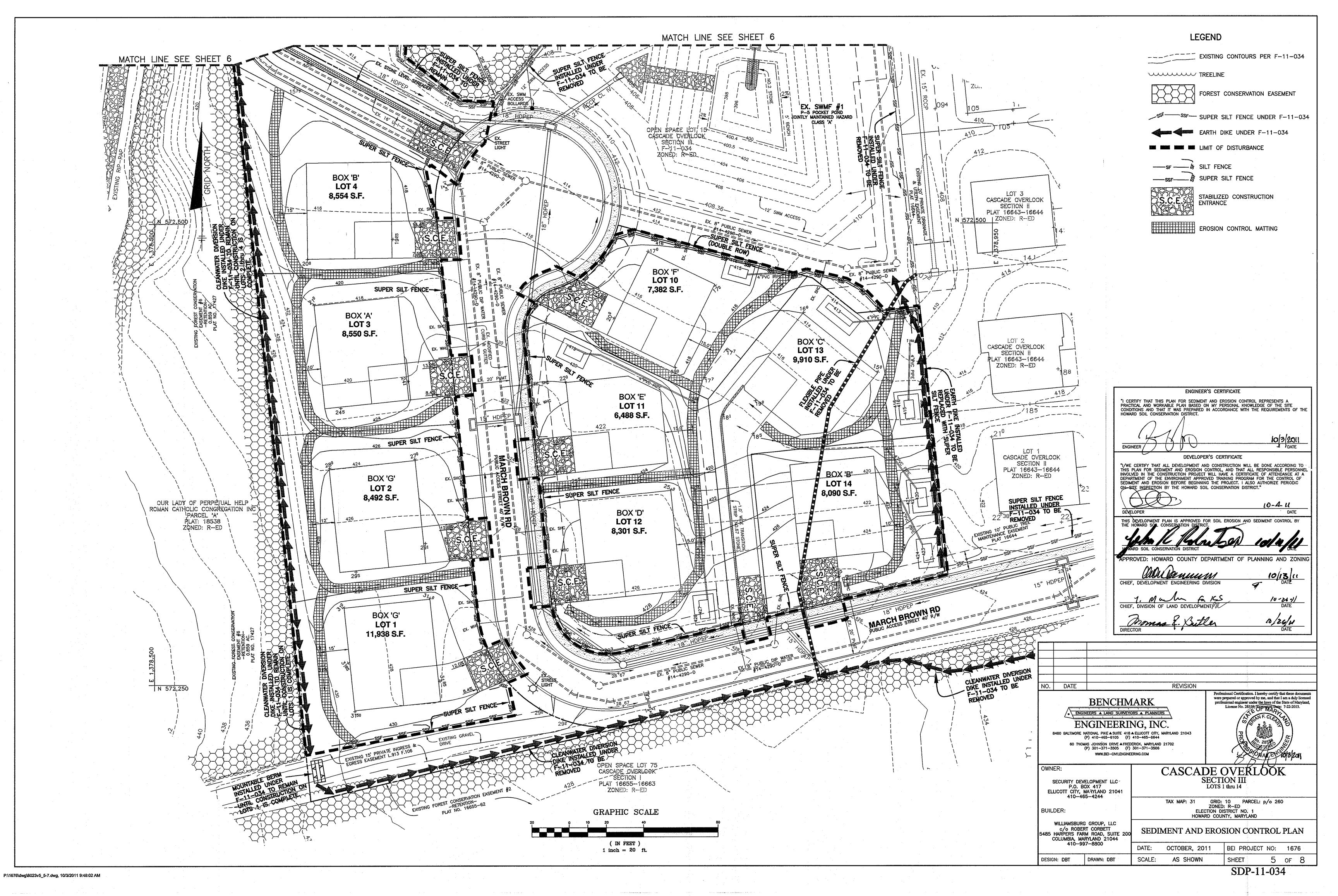


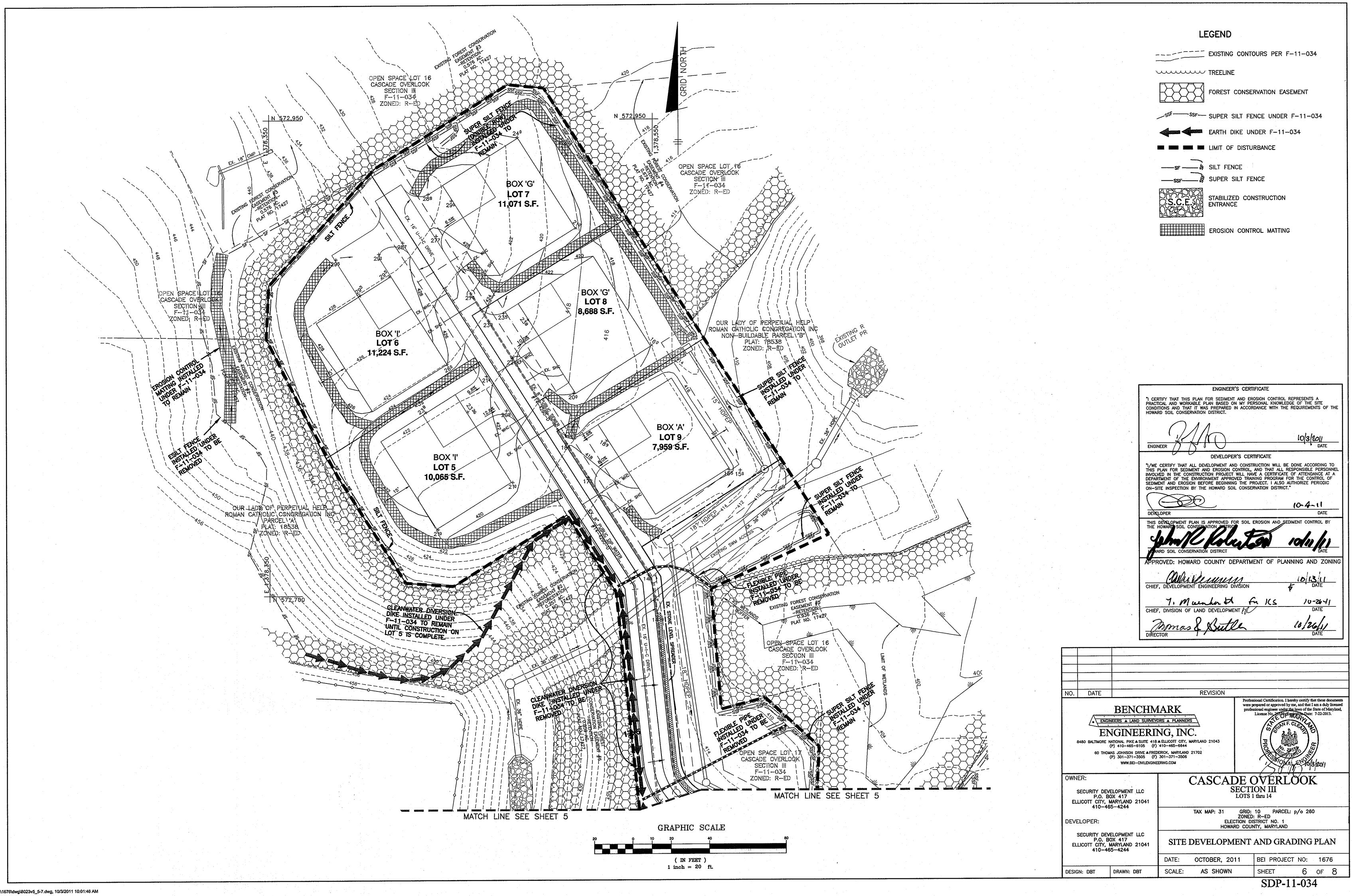
	CASCADE OVERLOOK SECTION III LOTS 1 thru 14								
	TAX MAP: 31 GRID: 10 PARCEL: p/o 260 ZONED: R-ED ELECTION DISTRICT NO. 1 HOWARD COUNTY, MARYLAND								
00	TITLE SHEET								
	DATE:	OCTOBER, 2011	BEI PROJECT NO: 1676						
	SCALE:	AS SHOWN	SHEET 1 OF 8						
			SDP-11-034						











#### SEDIMENT CONTROL NOTES

- A MINIMUM OF 24 HOURS NOTICE MUST BE GIVEN TO THE HOWARD COUNTY DEPARTMENT OF INSPECTION, LICENSES AND PERMITS, SEDIMENT CONTROL DIVISION PRIOR TO THE
- ALL VEGETATIVE AND STRUCTURAL PRACTICES ARE TO BE INSTALLED ACCORDING TO THE PROVISIONS OF THIS PLAN AND ARE TO BE IN CONFORMANCE WITH THE MOST CURRENT "MARYLAND STANDARDS AND SPECIFICATION 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
- 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 ESTABLISHMENT OF GRASSES.
- 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.

## 7. SITE ANALYSIS:

TOTAL AREA OF SITE	2.92	ACRES			
AREA DISTURBED	3.13	ACRES			
AREA TO BE ROOFED OR PAVED	1.07	ACRES			
AREA TO BE VEGETATIVELY STABILIZED	2.06	ACRES			
TOTAL CUT	0	CY			
	0	CY			
TOTAL FILL OFFSITE WASTE AREA LOCATION	A SITE WITH AN				
or one more men cooming.	ACTIVE GRADING PERMIT				
		•			

- 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 CONTROL MUST BE PROVIDED, IF DEEMED NECESSARY BY THE HOWARD COUNTY SEDIMENT CONTROL INSPECTOR.
- 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 IS LIMITED TO THREE PIPE LENGTHS OR THAT WHICH CAN BE BACK FILLED AND STABILIZED WITHIN ONE WORKING DAY, WHICHEVER IS SHORTER.

## TEMPORARY SEEDBED PREPARATIONS

## APPLY TO GRADED OR CLEARED AREAS LIKELY TO BE REDISTURBED WHERE A SHORT-TERM

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

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 FT. OR HIGHER, USE 348 GALLONS PER ACRE (8 GAL/1000 SQ FT) FOR ANCHORING

REFER TO THE 1994 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL FOR RATE AND METHODS NOT COVERED.

## PERMANENT SEEDBED PREPARATIONS

AS POSSIBLE IN THE SPRING, OR USE SOD.

## SEEDBED PREPARATION: LOOSEN UPPER THREE INCHES OF SOIL BY RAKING, DISCING OR

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

- 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 UPPER THREE INCHES OF SOIL. AT TIME OF SEEDING, APPLY 400 LBS PER ACRE 30-0-0- UREAFORM FERTILIZER (9 LBS/1000 SQ FT).
- 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 PER ACRE OF WELL ANCHORED STRAW.

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 GÁLLONS PER ACRE (8 GAL/1000 SQ FT) FOR ANCHORING.

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

### TOPSOIL SPECIFICATIONS

- Topsoil salvaged from the existing site may be used provided that it meets that 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.
- II. Topsoil Specifications Soil to be used as topsoil must meet the following: 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 texture subsoils and shall contain tess than 5% by volume of cinders, stones, slag, coarse fragments, gravel, sticks, roots, trash, or other materials larger than 1-1/2" in diameter.
- Topsoil must be free of plants or plant parts such as Bermuda grass, quack grass, Johnson grass, nutsedge, polson 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 topsoil. Lime shall be distributed uniformly over designated areas and worked into the soil in conjunction with tillage operations as described in the following procedures.
- 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:

- On soil meeting Topsoil specifications, obtain test results dictating fertilizer and lime amendments required to bring the soil into compliance with the following
- 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 or topsoil shall be not less than 1.5 percent by weight.
- 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 permit dissipation of phyto-toxic materials.

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

Place topsoil (if required) and apply soil amendments as specified in 20.0 Vegetative Stabilization — Section I — Vegetative Stabilization Methods and Materials.

## V. Topsoil Application

- When topsciling, maintain needed erosion and sediment control practices such as diversions, 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, albeit 4" 8" higher in elevation.
- 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 soil preparation and tillage. Any irregularities in the surface resulting from topsoiling or other operations shall be corrected in order to prevent the formation of depressions or water pockets.
- 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.
- VI. Alternative for Permanent Seeding Instead of applying the full amounts of time and commercial fertilizer, composted sludge and amendments may be applied as specified
- Composted Sludge Material for use as a soil conditioner for sites having distributed areas over 5 acres shall be tested to prescribe amendments and for sites having disturbed areas under 5 acres shall conform to the following requirements:
- 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. It 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 square feet, and 1/3 the normal lime application rate. References: Guidelines Specifications, Soll Preparation and Sodding. MD-VA, Pub. #1, Cooperative Extension Service, University of Maryland and Virginia Polytechnic Institutes, Revised 1973.

## 30.0 DUST CONTROL

## Controlling dust blowing and movement on construction sites and roads.

To prevent blowing and movement of dust from exposed soil surfaces, reduce on and off-site

# Conditions Where Practice Applies This practice is applicable to areas subject to dust blowing and movement where on and off-site damage is likely without treatment.

Temporary Methods

1. Mulches - See standards for vegetative stabilization with mulches only. Mulch should be crimped or tracked to prevent blowing.

- 2. Vegetative Cover See standards for temporary vegetative cover.
- 3. Tillage To roughen surface and bring clods to the surface. This is an emergency measure which should be used before soil blowing starts. Begin plowing on windward side of site. Chisel—type plows spaced about 12° apart, spring—toothed harrows, and similiar plows are examples of equipment which may produce the desired effect.
- Irrigation This is generally done as an emergency treatment. Site is sprinkled with water until the surface is moist. Repeat as needed. At no time should the site be irrigated to the point that runoff begins to flow.
- 5. Barriers -- Solid board fences, silt fences, snow fences, burlap fences, straw bales, and similiar material can be used to control air currents and soil blowing. Barriers placed at right angles to prevailing currents at intervals of about 10 times their height are effective in controlling soll blowing.
- 6. Calcium Chloride Apply at rates that will keep surface moist. May need retreatment.
- Permanent Methods

  1. Permanent Vegetation See standards for permanent vegetative cover, and permanent stabilization with sod. Existing trees or large shrubs may afford valuable protection if left in place.
- 2. Topsoiling Covering with less erosive soil materials. See standards for topsoiling. 3. Stone - Cover surface with crushed stone or coarse gravel.
- Agriculture Handbook 346. Wind Erosion Forces in the United States and Their Use in Predicting Soil Loss.
- 2. Agriculture Information Bulletin 354. How to Control Wind Erosion, USDA-ARS.

## SEQUENCE OF CONSTRUCTION

NOTIFY SEDIMENT CONTROL DIVISION 48 HOURS PRIOR TO START OF WORK

- 1. Obtain grading permit. (day 1)
- 2. Install silt fences and super silt fences and remove any devices installed under F-11-034 that are designated as "to be removed" under this SDP. (day 2-6)
- \*3. Install stabilized construction entrance. (day 7)
- \*4. Excavate for foundation, rough grade and stabilize in accordance with the temporary seedbed notes (day 8-10)
- \*5. Construct house, backfill and construct driveway. (day 11-80)
- 6. Final grade and stabilize in accordance with the permanent seedbed notes. Flush storm drain system (day 81-85)
- 7. Upon approval from the Howard County sediment control inspector, remove sediment control devices and stabilize any remaining disturbed areas (day 86-89)
- \* indicates single house construction

