SITE DATA

LOCATION: TAX MAP 41, GRID 6, PARCEL 220 DEED REFERENCE: L.3563 F.341

5TH ELECTION DISTRICT EXISTING ZONING: R-20

PER THE COMPREHENSIVE ZONING PLAN DATED 2/02/04. GROSS AREA OF PARCEL: 1.0031 AC. AREA OF RIGHT OF WAY: 0.00000 AC.

AREA OF FLOODPLAIN: N/A AREA OF STEEP SLOPES: N/A

NET AREA OF PROJECT: 1.0031 AC NUMBER OF RESIDENTIAL LOTS PROPOSED: 2 LOTS AREA OF PROPOSED RESIDENTIAL LOTS: 43,692 SF (1.00 AC) AREA OF SMALLEST BUILDABLE LOT PROPOSED: 21,845 SF
NUMBER OF PROPOSED OPEN SPACE LOTS: 0
NUMBER OF NON-BUILDABLE BULK PARCELS: 0

GENERAL NOTES

THE PROJECT BOUNDARY IS BASED ON A FIELD RUN BOUNDARY SURVEY PREPARED BY ROBERT H. VOGEL ENGINEERING, INC. IN FEBRUARY 2010

GRADING DATA

TOTAL DISTURBED AREA = 0.57 AC IMPERVIOUS COVER = 0.17 AC AREA TO BE STABILIZED = 0.40 AC

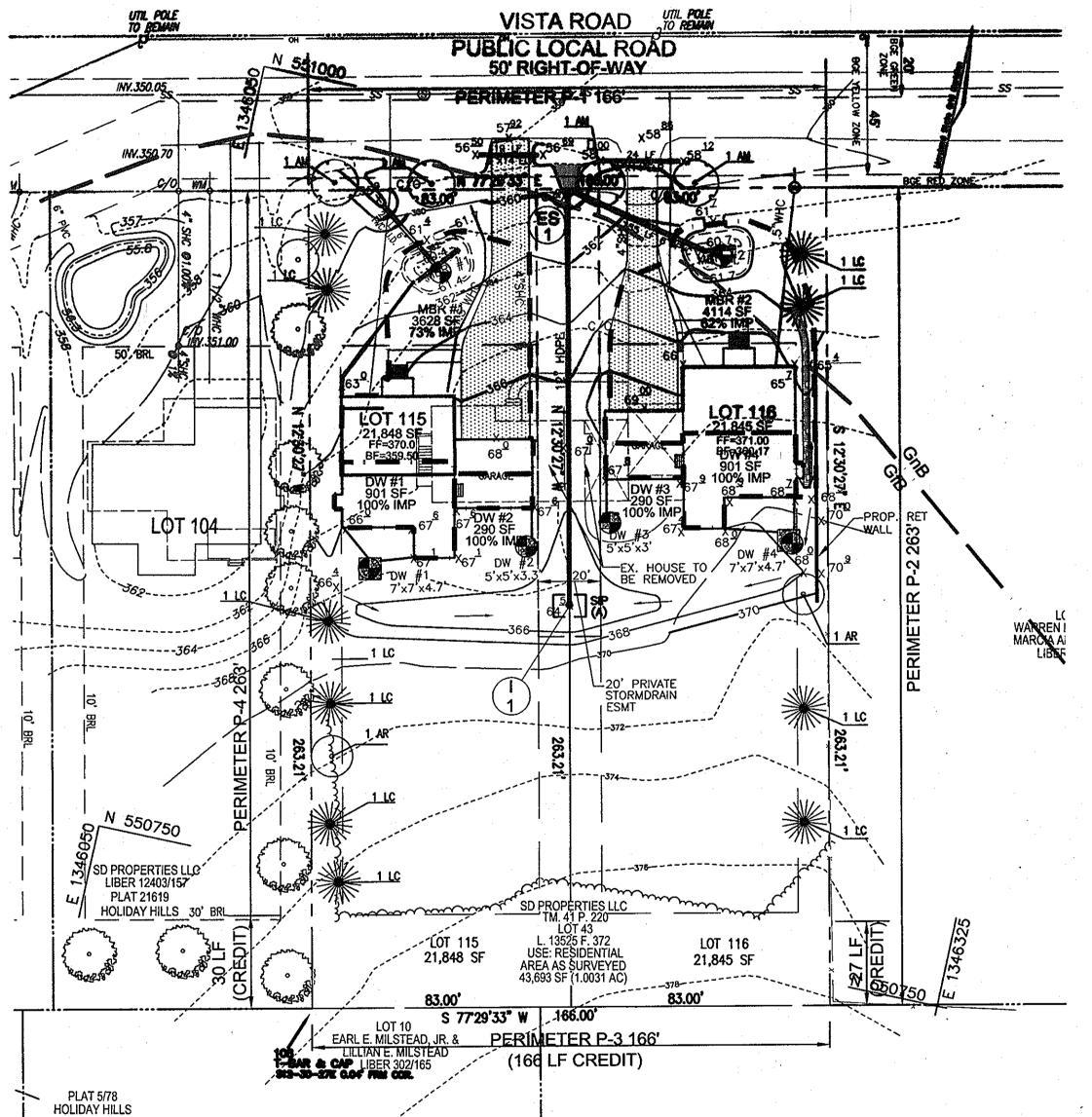
- THE TOPOGRAPHY SHOWN HEREON IS BASED ON FIELD RUN TOPOGRAPHY PERFORMED BY ROBERT H. VOGEL ENGINEERING, INC. IN
- PUBLIC WATER AVAILABLE THROUGH CONTRACT 34-1810-D AND PUBLIC SEWER AVAILABLE THROUGH CONTRACT 30-3123-D. WATER AND SEWER SERVICE WILL BE GRANTED UNDER THE PROVISIONS OF SECTION 18.122B OF THE HOWARD COUNTY CODE.
- THIS PROJECT IS EXEMPT FROM CPV STORM WATER MANAGEMENT
- SINCE THE SITE Pe IS LESS THAN 1 THIS SITE IS NOT LOCATED IN A HISTORIC DISTRICT.
- 6. NO STREAMS EXIST ON SITE
- 7. NO 100-YEAR FLOODPLAIN EXIST ON SITE.
- SUBJECT PROPERTY ZONED R-20 PER 2/02/04 COMPREHENSIVE ZONING ZONING PLAN AND AMENDED BY THE COMPREHENSIVE LITE AMENDMENT DATED 07/28/06.
- 9. THIS PLAN HAS BEEN PREPARED IN ACCORDANCE WITH THE PROVISIONS OF SECTION 16.124 OF THE HOWARD COUNTY CODE AND THE LANDSCAPE AND STREET TREES (\$6,010.00) WILL BE POSTED AS PART OF THE BUILDERS GRADING PERMIT UNDER THE SITE DEVELOPMENT PLAN.
- THIS PLAN IS SUBJECT TO THE AMENDED FIFTH EDITION OF THE SUBDIVISION AND LAND DEVELOPMENT REGULATIONS (COUNCIL BILL 45-2003). 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.
- "DRIVEWAY(S) SHALL BE PROVIDED PRIOR TO RESIDENTIAL OCCUPANCY TO INSURE SAFE ACCESS FOR FIRE AND EMERGENCY VEHICLES PER THE FOLLOWING MINIMUM REQUIREMENTS a) WIDTH- 12 FEET (16 FEET SERVING MORE THAN ONE RESIDENCE).
- c) GEOMETRY MAXIMUM 15% GRADE, MAXIMUM 10% CHANGE AND MINIMUM OF 45-FOOT DEPTH TURNING RADIUS.
- d) STRUCTURES (CULVERT/BRIDGES) CAPABLE OF SUPPORTING 25 GROSS TONS (H25 LOADING).
- e) DRAINAGE ELEMENTS—CAPABLE OF SAFELY PASSING 100—YEAR FLOOD WITH NO MORE THAN 1 FOOT DEPTH OVER DRIVEWAY SURFACE.
- f) STRUCTURE CLEARANCES-MINIMUM 12 FEET. g) MAINTENANCE - SUFFICIENT TO INSURE ALL WEATHER USE.
- 12. THE EXISTING DWELLING/STRUCTURE LOCATED ON THIS SITE ARE TO BE REMOVED PRIOR TO RECORDATION OF THIS PLAT.
- 13. THIS PROJECT COMPLIES WITH THE REQUIREMENTS OF SECTION 16.1200 OF THE HOWARD COUNTY CODE AND FOREST CONSERVATION ACT. TO FULFILL THE 0.20 ACRES OF AFFORESTATION REQUIREMENT, THE DEVELOPER WILL PAY A FEE-IN-LIEU IN THE AMOUNT OF \$6,534.00 PRIOR TO PLAT RECORDATION.
- STORM WATER MANAGEMENT ADDRESSED FOR SITE USING 2007 MARYLAND STORMWATER DESIGN MANUAL (CHAPTER 5).
- A. CHANNEL PROTECTION VOLUME (CPv) IS NOT REQUIRED (Pe FOR ENTIRE SITE IS UNDER 1.0")
- B. WATER QUALITY VOLUME (WQv) AND RECHARGE VOLUME (REV) TO BE PROVIDED BY (M-6) MICRO BIORETENTION FACILITIES, (M-5) DRYWELLS AND OPEN CHANNEL FLOW (WHEN IMPERVIOUS AREAS CAN NOT BE DIRECTED TO ONE OF THE MICRO BIORETENTION FACILITIES) AND (N-2) DISCONNECT OF NON-ROOFTOP RUNOFF
- SITE DEVELOPMENT PLAN APPROVAL BY THE DEPARTMENT OF PLANNING AND ZONING IS REQUIRED PRIOR TO BUILDING PERMITS BEING ISSUED FOR THE CONSTRUCTION OF RESIDENTIAL DWELLINGS ON THESE LOTS.
- THIS DEVELOPMENT IS DESIGNED TO BE IN ACCORDANCE WITH SECTION 16.127 RESIDENTIAL INFILL DEVELOPMENT OF SUBDIVISION AND LAND DEVELOPMENT REGULATIONS, THE DEVELOPER OF THIS PROJECT SHALL CREATE COMPATIBILITY WITH THE EXISTING NEIGHBORHOOD THROUGH THE USE OF ENHANCED PERIMETER LANDSCAPING, BERMS, FENCES, SIMILAR HOUSING UNIT TYPES AND THE DIRECTIONAL ORIENTATION OF THE
- NO CLEARING OF EXISTING VEGETATION IS PERMITTED WITHIN THE LANDSCAPE EDGE FOR WHICH CREDIT IS BEING TAKEN, HOWEVER, LANDSCAPE MAINTENANCE IS AUTHORIZED.
- SHOULD ANY TREE DESIGNATED FOR PRESERVATION, FOR WHICH CREDIT IS GIVEN, DIE PRIOR TO RELEASE OF BONDS, THE OWNER WILL BE REQUIRED TO REPLACE THE TREE WITH THE EQUIVALENT SPECIES OR WITH A TREE WHICH WILL OBTAIN THE SAME HEIGHT, SPREAD AND GROWTH CHARACTERISTICS. THE REPLACEMENT TREE MUST BE A MINIMUM OF 3 INCHES IN CALIPER AND INSTALLED A REQUIRED IN THE LANDSCAPE MANUAL.
- AT THE TIME OF INSTALLMENT, ALL SHRUBS AND OTHER PLANTINGS HEREWITH LISTED AND APPROVED FOR THIS SITE SHALL BE OF THE PROPER HEIGHT REQUIREMENTS IN ACCORDANCE WITH THE HOWARD COUNTY LANDSCAPE MANUAL. IN ADDITION, NO SUBSTITUTIONS OR RELOCATION OF REQUIRED PLANTING MAY BE MADE WITHOUT PRIOR REVIEW AND APPROVAL FROM THE DEPARTMENT OF PLANNING AND ZONING. ANY DEVIATION FROM THIS APPROVED LANDSCAPE PLAN MAY RESULT IN DENIAL OR DELAY IN THE RELEASE OF LANDSCAPE SURETY UNTIL SUCH TIME AS ALL REQUIRED MATERIALS ARE PLANTED AND/OR REVISIONS ARE MADE TO APPLICABLE PLANS AND CERTIFICATES.
- 20. REFERENCE WAIVER PETITION WP-13-187 APPROVED 07/19/2013
 - A. SECTION 16.134(b)(2) TO ALLOW A FEE-IN-LIEU OF SIDEWALK CONSTRUCTION (\$2368.00) B. SECTION 16.132(a)(2)(i)(a) TO ALLOW A FEE-IN-LIEU OF ROAD CONSTRUCTION (\$2324.00) C. SECTION 16.135(a) TO NOT PROVIDE STREET LIGHTING
- 21. A FOREST STAND DELINEATION WAS PERFORMED BY ECO-SCIENCE PROFESSIONALS, INC., DATED AUGUST 28, 2012 FOREST CONSERVATION REQUIREMENTS PER SECTION 16.1202 OF THE HOWARD COUNTY CODE AND THE FOREST CONSERVATION MANUAL SHALL BE COMPLIED WITH. NO FORESTED AREAS, WETLANDS, STREAMS OR THEIR ASSOCIATED BUFFERS ARE PRESENT ON THIS SITE.

SUPPLEMENTAL STORM WATER MANAGEMENT, FOREST CONSERVATION & LANDSCAPE PLAN

F-13-082

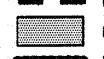
HOLIDAY HILLS LOTS 115 & 116

A RESUBDIVISION LOT 43 SECOND ADDITION TO HOLIDAY HILLS SUBDIVISION PLAT BOOK 7, FOLIO 41



SCALE: 1"=30"

<u> GEND</u>	 		 	
LOD	LIBALT	OE.	DISTLIBBA	NICE



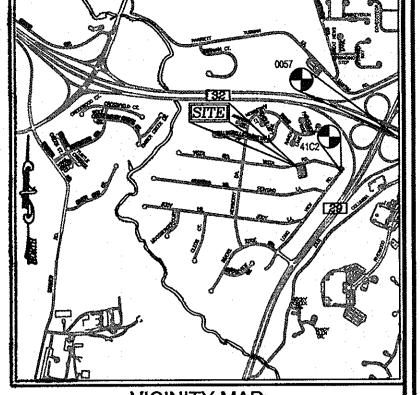
EX. DRIVEWAY TO BE REMOVED PROPOSED MICRO BIORETENTION



PROPOSED EROSION CONTROL MATTING

BENCHMARKS

HOWARD COUNTY BENCHMARK 41C2 N 551,616.4187 E 1,348,104.2341 HOWARD COUNTY BENCHMARK 0057 N 550,835.2139 E 1,347,017.6897



SCALE: 1"=2000' ADC MAP COORDINATES: 5052/H2

> P-1 P-2 P-3 P-4 N/A A A

> > YES (28 LF) YES (166 LF) YES (30 LF)

COORDINATE TABLE							
NUMBER	NORTHING	EASTING					
102	550963.9756	1346072.3252					
201	550707.0123	1346129.3282					
204	550999.9260	1346234.3856					
205	550742.9626	1346291.3886					

ſ								A 776		····			CATEGORY	A
			S	TREET	TRE	E CA	ALCUI	LATIC	N				PERIMETER NUMBER	
	RO	AD NA	ME		LINEAR	FEET	NO.	REQUIR	ED 1	40. F	PON	NDED	LANDSCAPE TYPE	
VI	ISTA R		<u> </u>		166'/			4			4	•	LF OF ROADWAY FRONTAGE / PERIMETER	
					7 70		OHE	31 11 E					NUMBER OF PLANTS REQUIRED	-
				STREE	1 1 1 1 1 1 1	<u> </u>	CHEL	JULE					SHADE TREES	- 1
	KEY	QUAN.		BOTAN	ICAL N	AME			SIZE			REM.	EVERGREEN TREES	
AM	0	4	ACER	MAPLE GINNALA	GROW		HT=20')	2 1/2	elymen I anni ar dy on sig Mari	of more of me and the part of the first of the	. В	& B	CREDIT FOR EXISTING VEGETATION (YES/N SHADE TREES ORNAMENTAL (2:1 SUB FOR SHADE) EVERGREEN TREES	(O)
			FC	REST	STAN	ID A	NALY	SIS T	ABL	E				
KEY	TYPE OF COMMUNITY	B. AREA	1. SOILS TYPES		C. FORMATION 3. WOODLAND SUITABILITY	4	1	D.	STAND C	E. HARACTE 2. AGE	RISTICS 3. GEN. COND.	F. FOREST AREA IN SEN. ENV	NUMBER OF PLANTS PROVIDED SHADE TREES ORNAMENTAL (2:1 SUB FOR SHADE) EVERGREEN TREES (2:1 SUB FOR SHADE)	DE)
	LAWN AN		GnB	COVER FOR SOILS TYPE MIXED UPLAND	INDEX	1	MAINTAIN	IED LAWN			~~~		*P-2 - SUBSTITUTION: 2 EVERGREEN **P-3- 166 LF REQUIRED - 166 LF ***P-4 - SUBSTITUTION: 2 EVERGREEN	CRE
L-1	OPEN FIE	1.00 A	GfB	HARDWOODS, MAINLY OAKS	1	1	MAPLE	& APPLE	12-27*	30±	FAIR	0.00 AC	T4 - 30B3HIOHON, 2 EVENGREEN	
F	FORE	ST ST	AND	TOTALS	}	···	1							<u> </u>
STAN	D L-1			1.00	ACRES								QUAN. BOTANIC	AL

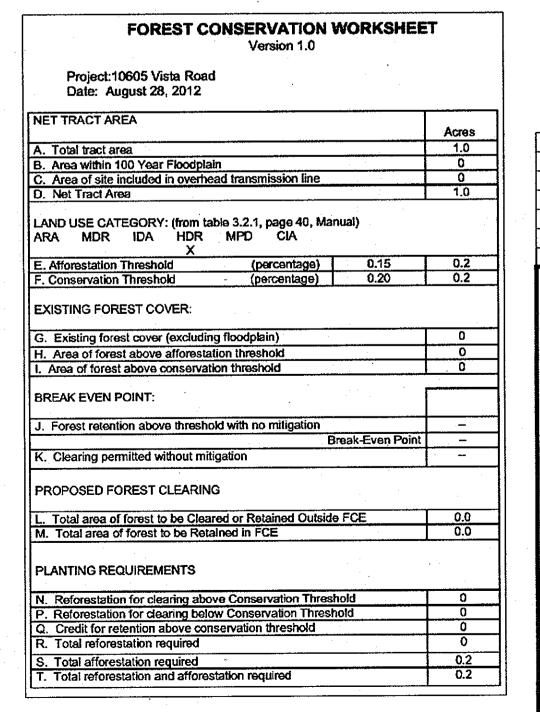
1.00 ACRES (ENTIRE SITE)

	S OILS LEGEND	
SYMBOL	NAME/DESCRIPTION	TYPE
GnB	GLENVILLE-BAILE SILT LOAM O TO 8 PERCENT SLOPES	С
GfB	GLADSTONE-URBAN LAND COMPLEX 0 TO 8 PERCENT SLOPES	В
	SCHEDULE 'A'- PERIMETER LANDSCAPE EDGE	
CATEGO	ADJACENT TO ADJACENT TO PERIMETER	TOTAL

F ROADWAY FRONTAGE / PERIMETER | 166 LF | 263 LF | 166 LF | 263 LF

SOILS LEGEND

	I EASUQUE	C14 11/0000	•						
4	NUMBER OF	PLANTS	PROVIDED	N/A					
ı	SHADE TO	REES			1	-	1	1	2
,			SUB FOR SHADE)		: -	-	-		
ı	EVERGRE	EN TREES	(2:1 SUB FOR SHADE)		4*	0**	6***		10
	**P-3-	166 LF	JTION: 2 EVERGREEN FOI REQUIRED — 166 LF CR JTION: 2 EVERGREEN FOI	EDIT = 0 TRE	EES PRO	VIDED			
		QUAN.	BOTANICAL			SIZE		R	EM.
	AR	2	ACER RUBRUM 'AL AUTUMN FLAME RE		ME' 2	1/2"-3	" CAL.	В	& B



JOHN CANOLES

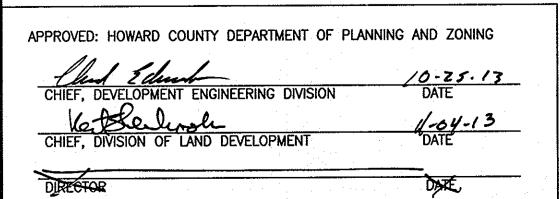
	OWNERS SD PROPERTIES 3138 ROGERS AVENUE ELLICOTT CITY, MARYLAND 21043 (410-203-2460)	
NO.	REVISION	DATE
FC	PPLEMENTAL STORM WATER MANAGEMED REST CONSERVATION & LANDSCAPE PLANTS F-13-082 HOLIDAY HILLS LOTS 115 & 116 A RESUBDIVISION OF LOT 43 OF HOLIDAY HILLS, PLAT BOOK 7 FOLIO 41 PARESTRONT HOWARD COUNTY,	AN ARCEL 220
	ROBERT H. VOG ENGINEERING, IN ENGINEERS • SURVEYORS • PLAN 8407 MAIN STREET ELLICOTT CITY, MD 21043 FAX: 410.461	VC. NERS
11.100	OF MARY DESIGN BY: JTD DRAWN BY: JER PROFESSIONAL CERTIFICATI HEREBY CERTRY THAT THESE PREPARED OR APPROVED BY MA AM A DULY LICENSED PROFESS UNDER THE LAWS OF THE STAT LICENSE NO. 16193 EXPIRATION	DOCUMENTS WERE E, AND THAT I KONAL ENGINEER E OF MARYLAND,

CHECKED BY:

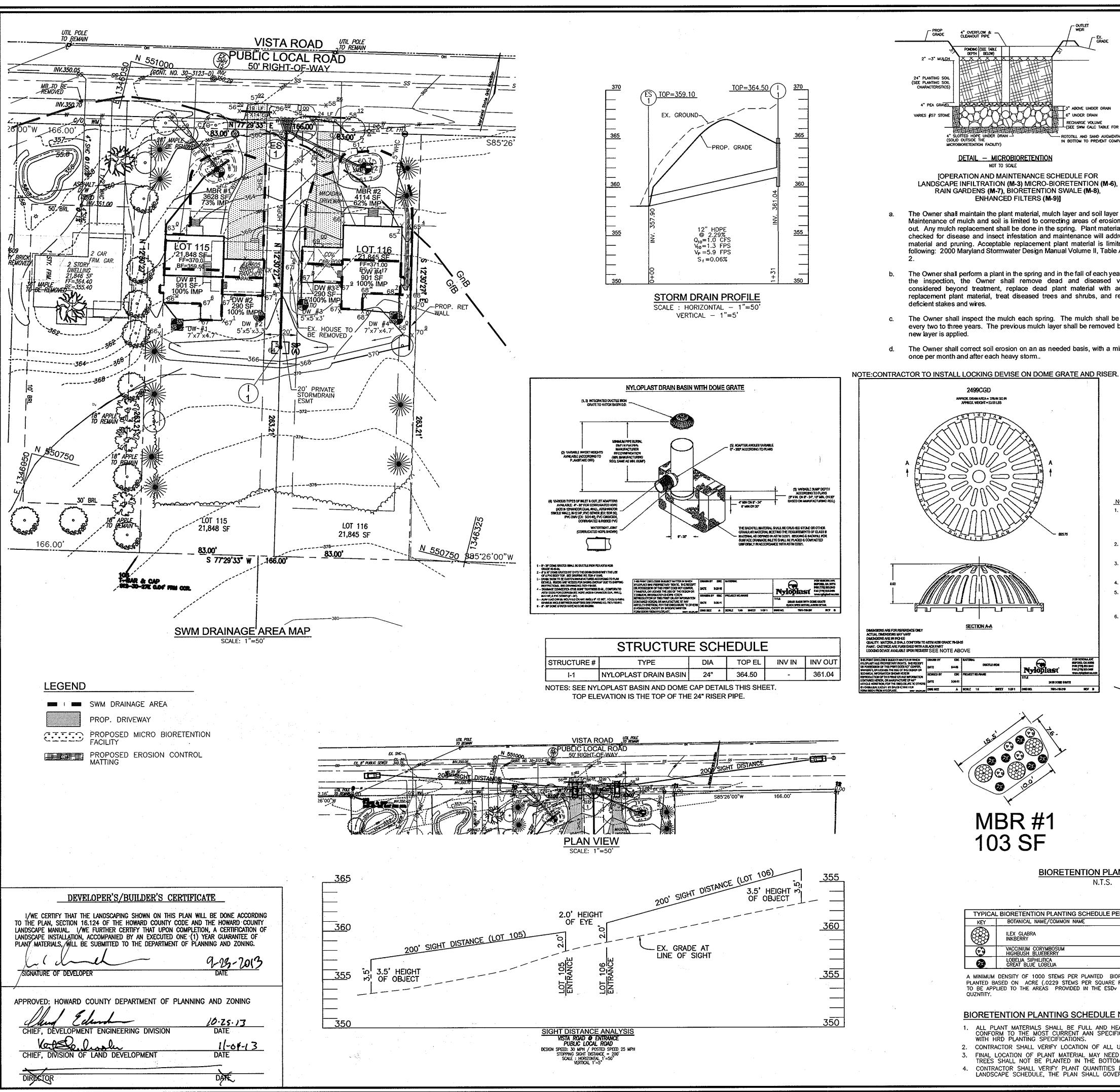
SCALE:

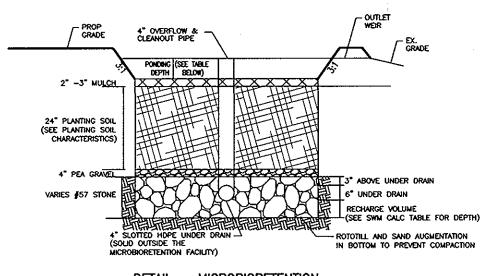
W.O. NO.:

DATE: <u>SEPTEMBER, 2013</u>



 $_{\circ}$ SHEET 3

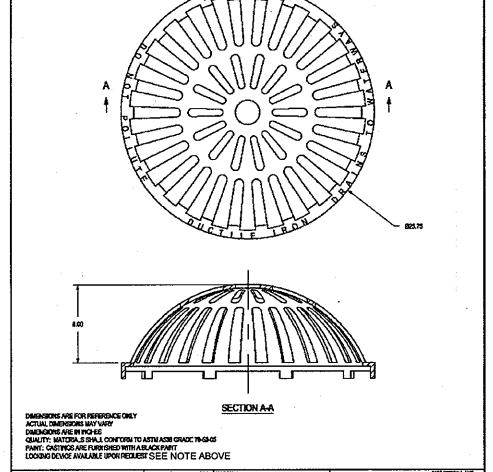




[OPERATION AND MAINTENANCE SCHEDULE FOR LANDSCAPE INFILTRATION (M-3) MICRO-BIORETENTION (M-6), RAIN GARDENS (M-7), BIORETENTION SWALE (M-8), ENHANCED FILTERS (M-9)]

- The Owner shall maintain the plant material, mulch layer and soil layer annually.
 Maintenance of mulch and soil is limited to correcting areas of erosion or wash out. Any mulch replacement shall be done in the spring. Plant material shall be checked for disease and insect infestation and maintenance will address dead material and pruning. Acceptable replacement plant material is limited to the following: 2000 Maryland Stormwater Design Manual Volume II, Table A.4.1 and
- b. The Owner shall perform a plant in the spring and in the fall of each year. During the inspection, the Owner shall remove dead and diseased vegetation considered beyond treatment, replace dead plant material with acceptable replacement plant material, treat diseased trees and shrubs, and replace all deficient stakes and wires.
- c. The Owner shall inspect the mulch each spring. The mulch shall be replaced every two to three years. The previous mulch layer shall be removed before the
- d. The Owner shall correct soil erosion on an as needed basis, with a minimum of once per month and after each heavy storm..

DETAIL - MICROBIORETENTION



CHAPE AND EXPORTED AND AND ROUTE THESE STREETS AND ROUTENT ASSESSMENT AND EXCEPTION AND EXCEPTION AND AND ASSESSMENT ASSE

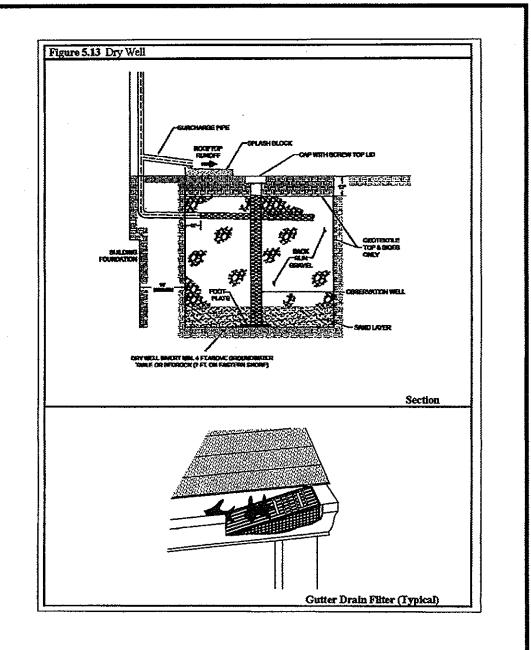
IT IS VERY IMPORTANT TO MINIMIZE COMPACTION OF BOTH THE BASE OF THE BIORETENTION AREA AND THE REGUIRED BAC HOES TO REMOVE ORIGINAL SOIL, IF BIORETENTION AREAS ARE EXCAVATED USING LOADER, THE CONTRACTOR SHOULD U EQUIPMENT, OR LIGHT EQUIPMENT WITH TURE TYPE TIRE. USE OF EQUIPMENT WITH MARROW TRACKS OR MARROW TIRES, RUBBER TIRES WITH LARGE LUCS, OR HIGH PRESSURE TIRES WITH LARGE LUCS. OR HIGH PRESSURE TIRES WITH LARGE LUCS. OR HIGH PRESSURE TIRES WITH CAUSE EXCESSIVE THE STIML CAUSE EXCESSIVE ON PACTION RESULTING BY REPLICED BIFILTRATION RATES AND IS NOT ACCEPTABLE COMPACTION WILL SIGNIFICANTLY CONTRIBUTE TO DESIGN FAILURE.

WHEN BACKFILING THE TOPSOL OVER THE SAND LAYER, FIRST PLACE 3 TO 4 NOI-ES OF TOPSOL OVER THE SAND, THEN ROTOTILL THE SANDITOPSOL TO CREATE A GRADATION ZONE, BACKFILL THE REMANDER OF THE TOPSOL TO FINAL GRADE.

FILING THE BIORETENTION FACILITY, PLACE SOIL IN LIFTS 12" TO 18". DO NOT USE HEAVY EQUIPMENT WITHIN THE BIORETE PINENT CAM SE USED AROUND THE PERBILETER OF THE BASIN TO SUPPLY SOILS AND SAND. GRADE BIORETENTION MATERIA

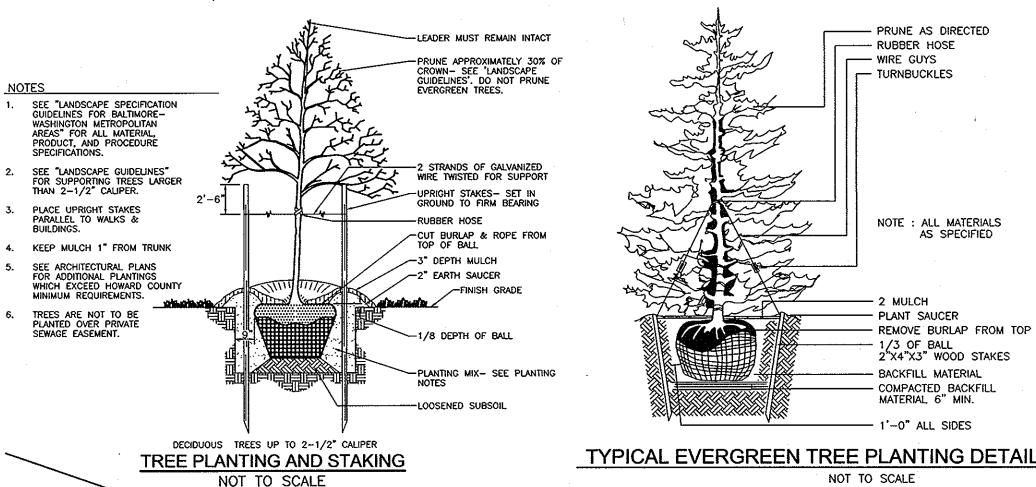
GRASSES AND LEGUALE SEED SHOULD BE OPILLED INTO THE SOIL TO A DEPTH OF AT LEAST ONE BICH, GRASS AND LEGUALE PLUCS SHALL BE PLANTED FOLLOWING THE HOMORYSS GROUND COVER PLATING SPECIFICATIONS.

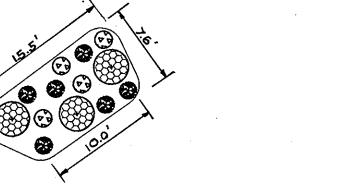
THE MAIN COLLECTOR PIPE FOR UNDERCRAIN SYSTEMS SHALL BE CONSTRUCTED AT A MINIARIN SLOPE OF 0.5%. OBSERVATION WELL AMDIOR CLEAN-OUT PIPES MIST BE PROVIDED (ONE MINIMAIN PER EVERY 1000 SCHAPE FEET OF SURFACE AREA).



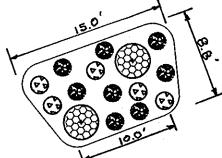
	STORMWATER MANAGEMENT CALCULATIONS										
-	DRAINAGE AREA	METHOD	VOL. REQ'D	VOL. PROV.	REv. REQ'D	REV STONE D	REv PROV.				
	MBR #1	M-6	157 CF	176 CF	54 CF	16"	55 CF				
	DW #1	M-5	71 CF	72 CF	18.5 CF	12"	19.1 CF				
	DW #2	M-5	23 CF	26 CF	6 CF	8"	6.4 CF				
	MBR #2	M-6	272 CF	294 CF	49.4 CF	6"	57 CF				
	DW #3	M-5	23 CF	26 CF	6 CF	8"	6.7 CF				
	DW #4	M-5	71 CF	72 CF	18.7 CF	12"	19.6 CF				
•	M-5 IS A DRY	WELL SE	E DETAIL THIS	S SHEET.							

M-6 IS A MICRO BIORETENTION FACILITY. SEE DETAIL THIS SHEET.









BIORETENTION PLANTING LAYOUT N.T.S.

TYPICAL	BIORETENTION PLANTING SCHEDULE PE	R 250 SF AREA		PER F	ACILIT
KEY	BOTANICAL NAME/COMMON NAME	SIZE	REMARKS	MBR 1	MBR
	ILEX GLABRA INKBERRY	3 GALLON	CONT	3	2
©	VACCINIUM CORYMBOSUM HIGHBUSH BLUEBERRY	3 GALLON	CONT	4	5
2	LOBELIA SIPHILITICA GREAT BLUE LOBELIA	3 GALLON	CONT	6	7

A MINIMUM DENSITY OF 1000 STEMS PER PLANTED BIORETENTION AREAS ARE TO BE PLANTED BASED ON ACRE (.0229 STEMS PER SQUARE FOOT). ABOVE PLANTING RATIOS ARE TO BE APPLIED TO THE AREAS PROVIDED IN THE ESDV SUMMARY. ROUND UP FOR

BIORETENTION PLANTING SCHEDULE NOTES:

- ALL PLANT MATERIALS SHALL BE FULL AND HEAVY, BE WELL FORMED AND SYMMETRICAL, CONFORM TO THE MOST CURRENT AAN SPECIFICATIONS AND BE INSTALLED IN ACCORDANCE WITH HRD PLANTING SPECIFICATIONS.
- 2. CONTRACTOR SHALL VERIFY LOCATION OF ALL UNDERGROUND UTILITIES PRIOR TO DIGGING. 3. FINAL LOCATION OF PLANT MATERIAL MAY NEED TO VARY TO MEET FINAL FIELD CONDITIONS. TREES SHALL NOT BE PLANTED IN THE BOTTOM OF DRAINAGE SWALES.

4. CONTRACTOR SHALL VERIFY PLANT QUANTITIES PRIOR TO BIDDING. IF PLAN DIFFERS FROM LANDSCAPE SCHEDULE, THE PLAN SHALL GOVERN.

SUPPLEMENTAL STORM WATER MANAGEMENT.

LOTS 115 & 116 A RESUBDIVISION OF LOT 43 OF HOLIDAY HILLS, PLAT BOOK 7 FOLIO 41 ECP-13-016 PARCEL 220 HOWARD COUNTY, MARYLAND TAX MAP 41, GRID 6 5TH ELECTION DISTRICT ROBERT H. VOGEL Engineering, Inc.

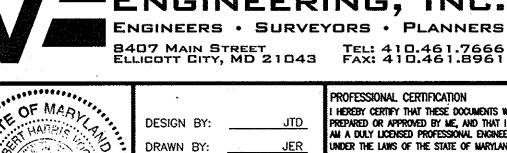
& LANDSCAPE DETAIL PLAN

F-13-082

HOLIDAY HILLS

OWNERS

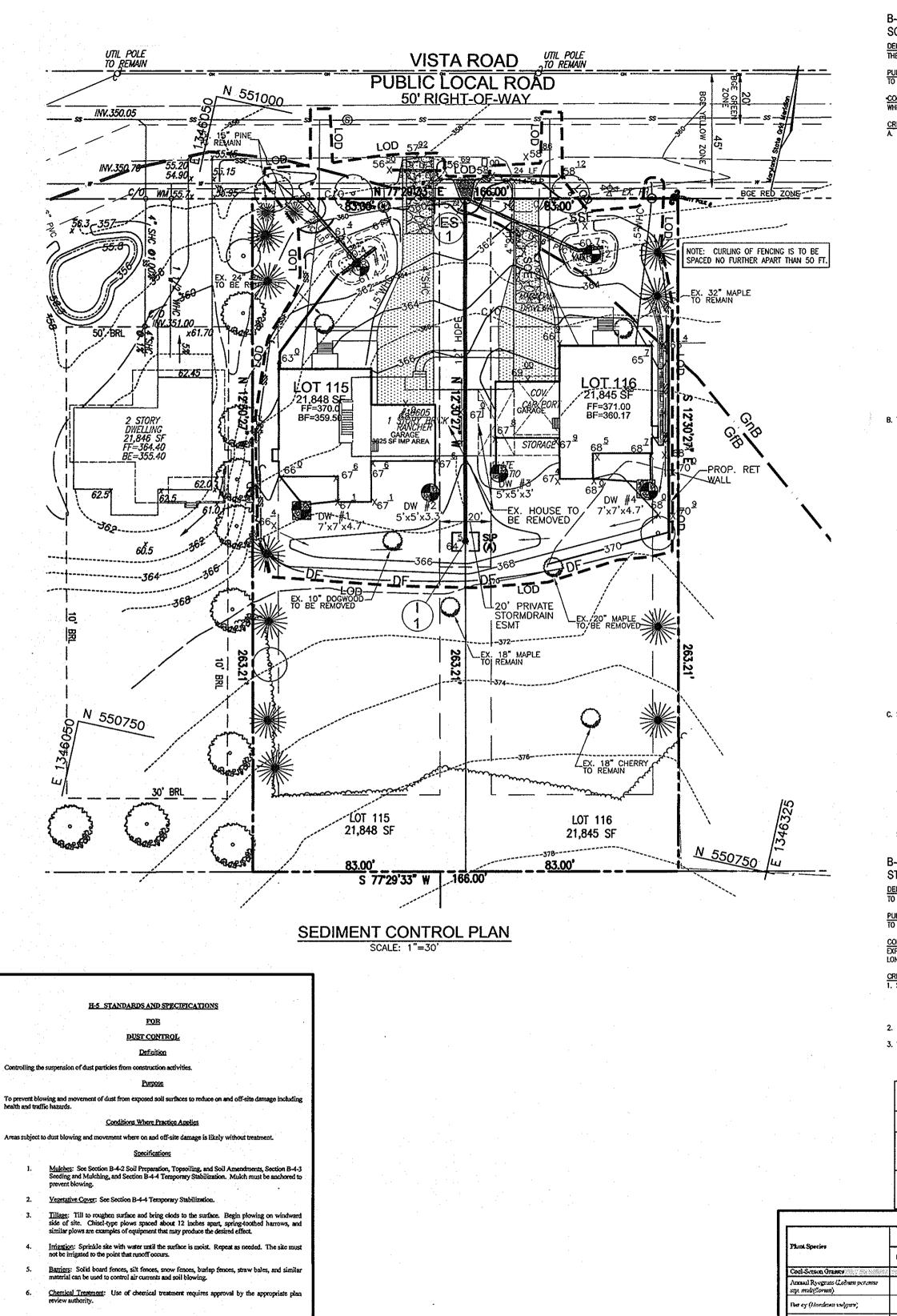
SD PROPERTIES 3138 ROGERS AVENUE ELLICOTT CITY, MARYLAND 21043 (410-203-2460)



EDS CHECKED BY: DATE: SEPTEMBER, 2013 AS SHOWN SCALE: 12-29

PROFESSIONAL CERTIFICATION I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND, LICENSE NO. 16193 EXPIRATION DATE: 09-27-2014.

, SHEET <u>3</u>



APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING

THESE PLANS FOR SMALL POND CONSTRUCTION, SOIL EROSION AND

SEDIMENT CONTROL MEET THE REQUIREMENTS OF THE HOWARD SOIL

B-4-2 STANDARDS AND SPECIFICATIONS FOR SOIL PREPARATION, TOPSOILING AND

<u>DEFINITION</u>
THE PROCESS OF PREPARING THE SOILS TO SUSTAIN ADEQUATE VEGETATIVE STABILIZATION.

TO PROVIDE A SUITABLE SOIL MEDIUM FOR VEGETATIVE GROWTH.

CONDITIONS WHERE PRACTICE APPLIES WHERE VEGETATIVE STABILIZATION IS TO BE ESTABLISHED.

. TEMPORARY STABILIZATION A SEEDBED PREPARATION CONSISTS OF LOOSENING SOIL TO A DEPTH OF 3 TO 5 INCHES BY MEANS OF SUITABLE LEFT IN THE ROUGHENED CONDITION. SLOPES 3:1 OR FLATTER ARE TO BE TRACKED WITH RIDGES RUNNING PARALLEL TO THE CONTOUR OF THE SLOPE.

B. APPLY FERTILIZER AND LINE AS PRESCRIBED ON THE PLANS.

Plant Species	Seeding Rate 1'		Seeding Depth 3	Recommended Seeding Dates by Plant Hardiness Zone "					
	D/ac	#v1000 ft ¹	(inches)	Sh and Ga	6b	79 and 7b			
Cocl-Serva Greecy	5366666	etem bele	· 18 18 12 19 1	representations and the other terms.	SESSIPHILES FOR GA	DENOGRAPHICA CAST TO FOLKS			
Annual Ryograss (Lolnen perems sap. mali(lorum)	41)	10,	0.5	Mar 15 to Ney 31; Aug 1 to Sep 30	Mar I to May 15; Aug I to Oct 15	Feb 15 to Arr 30t Aug 15 to Nov 30			
Bar ey (Hardenn volgar)	96	מז	10	Mir 15 to May 31; Aug 1 to Sep 30	Mar I to May 15; Aug I to Oct 15	Feb 15 to Apr 30; Aug 15 to Nov 30			
Com ulvena smha)	72	17	10	Mar 15 to May 21; Aug 1 to Sep 30	Mar I to May 15: Aug I to Ooi 15	Fob 15 to Att 30; Aug 15 to Nov 30			
Wheat (Vincum sustivum)	120	28	10	Mar 15 to May 31; Aug 1 to Sep 30	Mar I to May 15; Aug T to Oct 15	Feb 15 to Art 30t Aug 15 to Nov 34			
Cercal Ryc (Secole oerests)	112	28	10	Mar 15 to May 31; Aug 1 to Oct 31	Maril to May 15, Aug 1 to Not 15	Feb 15 to Am 30, Aug 15 to Dec 15			
Werm-Scawn Greats	HAPPENTE		学 的现在字法			ening karang pala			
Formali Mil'et (Supria talice)	30	ú7	ù5	Jur I to Jul 31	May lote Jel 31	May I to Aug 14			
Post. Millot (Permiserum gloucum)	20	0.5	0.5	Jur. i to Jul 31	May 16 to Jul 31	May 1 to Aug 14			

Sooding rates is ted above me for temporary soodings, when planted above. When planted as a none compacifit permanent scott mixes, use 1.8 of the second grade is ded a lower for borlog, and cand wheat. For smaller-second practice frames frames properly in the control permanent scott may be used by second practice from the control permanent scott may be used to be used as a mixed copy, unless planting will occur a very lab to it. beyond the second getter for office temporary scotings. Cored by a board of copies properties that inhibit the germination said growth of the plant. This could be unused only code 1.10 of the rate installabove.

Consider the recommender name or or the warm-season emission 27 For strong soils, plant souls at twice the death listed above.

20 Hopkeling established are averages for each Zone and may require adjustment, to robbed conditions, aspecially need to be underlying of the 2001.

BY THE DEVELOPER: BY THE ENGINEER: "I/WE CERTIFY THAT ALL DEVELOPMENT AND/OR CONSTRUCTION WILL
BE DONE IN ACCORDANCE TO THESE PLANS, 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. I SHALL ENGAGE A REGISTERED
PROFESSIONAL ENGINEER TO SUPERVISE POND CONSTRUCTION AND
PROVIDE/THE HOWARD SOIL CONSERVATION DISTRICT WITH AN "AS-BUILT" "I HEREBY CERTIFY THAT THIS PLAN FOR POND-CONSTRUCTION EROSION AND SEDIMENT CONTROL REPRESENTS A PRACTICAL AN WORKABLE PLAN BASED ON MY PERSONAL KNOWLEDGE OF THE SITE CONDITIONS. THIS PLAN WAS PREPARED IN ACCORDANCE WITH THE REQUIREMENTS OF THE HOWARD SOIL CONSERVATION DISTRICT. 1- HAVE NOTIFIED THE DEVELOPER THAT HE/SHE MUSTICHAGE A REGISTRED PROFESSIONAL ENGINEER TO SUPERVISE POND CONSTRUCTION AND PROVIDE THE HOWARD SOIL—
CONSERVATION DISTRICT WITH AN "AS BUILT" PLAN OF THE
POND WITHIN 30 DAYS OF COMPLETION." SIGNATURE OF ENGINEER

B-4-3 STANDARDS AND SPECIFICATIONS FOR SEEDING AND MULCHING

 $\frac{\text{DEFINITION}}{\text{THE APPLICATION OF SEED AND MULCH TO ESTABLISH VEGETATIVE COVER.}$

<u>PURPOSE</u>
TO PROTECT DISTURBED SOILS FROM EROSION DURING AND AT THE END OF CONSTRUCTION.

<u>Conditions where practice applies</u> to the surface of all perimeter controls, slopes, and any disturbed area not under active grading.

C. INOCULANTS: THE INOCULANT FOR TREATING LEGUME SEED IN THE SEED MIXTURES MUST BE A PURE CULTURE OF NITROGEN FIXING BACTERIA PREPARED SPECIFICALLY FOR THE SPECIES. INOCULANTS MUST NOT BE USED LATER THAN THE DATE INDICATED ON THE CONTAINER, ADD FRESH INOCULANTS AS DIRECTED ON THE PACKAGE, USE FOUR TIMES THE RECOMMENDED RATE WHEN HYDROSEEDING, NOTE: IT IS VERY IMPORTANT TO KEEP INOCULANT AS COOL AS POSSIBLE UNTIL USED, TEMPERATURES ABOVE 75 to 80 degrees fahrenheit can weaken bacteria and make the inoculant less effective. D. SOD OR SEED MUST NOT BE PLACED ON SOIL WHICH HAS BEEN TREATED WITH SOIL STERILANTS OR CHEMICALS USED FOR WEED

A ALL SEED MUST MEET THE REQUIREMENTS OF THE MARYLAND STATE SEED LAW. ALL SEED MUST BE SUBJECT TO RE-TESTING BY

A. DRY SEEDING: THIS INCLUDES USE OF CONVENTIONAL DROP OR BROADCAST SPREADERS.

I. INCORPORATE SEED INTO THE SUBSOIL AT THE RATES PRESCRIBED ON TEMPORARY SEEDING TABLE 8.1, PERMANENT SEEDING TABLE 8.3, OR SITE—SPECIFIC SEEDING SUMMARIES.

II. APPLY SEED IN TWO DIRECTIONS, PERPENDICULAR TO EACH OTHER. APPLY HALF THE SEEDING RATE IN EACH DIRECTION.

ROLL THE SEEDED AREA WITH A WEIGHTED ROLLER TO PROVIDE GOOD SEED TO SOIL CONTACT.

B. DRILL OR CULTIPACKER SEEDING: MECHANIZED SEEDERS THAT APPLY AND COVER SEED WITH SOIL.

I. CULTIPACKING SEEDERS ARE REQUIRED TO BURY THE SEED IN SUCH A FASHION AS TO PROVIDE AT LEAST 1/4 INCH OF SOIL COVERING. SEEDBED MUST BE FIRM AFTER PLANTING.

11. APPLY SEED IN TWO DIRECTIONS, PERPENDICULAR TO EACH OTHER. APPLY HALF THE SEEDING RATE IN EACH DIRECTION. C. HYDROSEEDING: APPLY SEED UNIFORMLY WITH HYDROSEEDER (SLURRY INCLUDES SEED AND FERTILIZER).

1. IF FERTILIZER IS BEING APPLIED AT THE TIME OF SEEDING, THE APPLICATION RATES SHOULD NOT EXCEED THE FOLLOWING:

II. LIME: USE ONLY GROUND AGRICULTURAL LIMESTONE (UP TO 3 TONS PER ACRE MAY BE APPLIED BY HYDROSEEDING).
NORMALLY, NOT MORE THAN 2 TONS ARE APPLIED BY HYDROSEEDING AT ANY ONE TIME. DO NOT USE BURNT OR HYDRATED III. MIX SEED AND FERTILIZER ON SITE AND SEED IMMEDIATELY AND WITHOUT INTERRUPTION.

 MULCH MATERIALS (IN ORDER OF PREFERENCE)
 A. STRAW CONSISTING OF THOROUGHLY THRESHED WHEAT, LYE, OAT, OR BARLEY AND REASONABLY BRIGHT IN COLOR. STRAW IS TO BE FREE OF NOXIOUS WEED SEEDS AS SPECIFIED IN THE MARYLAND SEED LAW AND NOT MUSTY, MOLDY, CAKED, DECAYED, OR

8. WOOD CELLULOSE FIBER MULCH (WCFM) CONSISTING OF SPECIALLY PREPARED WOOD CELLULOSE PROCESSED INTO A UNIFORM FIBROUS PHYSICAL STATE.

1. WCFM IS TO BE DYED GREEN OR CONTAIN A GREEN DYE IN THE PACKAGE THAT WILL PROVIDE AN APPROPRIATE COLOR TO

OTHER ADDITIVES TO FORM A HOMOGENEOUS SLURRY. THE MULCH MATERIAL MUST FORM A BLOTTER-LIKE GROUND COVER, ON APPLICATION, HAVING MOISTURE ABSORPTION AND PERCOLATION PROPERTIES AND MUST COVER AND HOLD GRASS SEED

C. WOOD CELLULOSE FIBER USED AS MULCH MUST BE APPLIED AT A NET DRY WEIGHT OF 1500 POUNDS PER ACRE. MIX THE WOOD CELLULOSE FIBER WITH WATER TO ATTAIN A MIXTURE WITH A MAXIMUM OF 50 POUNDS OF WOOD CELLULOSE FIBER PER 100

BE DONE BY ONE OF THE FOLLOWING METHODS (LISTED BY PREFERENCE), DEPENDING UPON THE SIZE OF THE AREA AND I. A MULCH ANCHORING TOOL IS A TRACTOR DRAWN IMPLEMENT DESIGNED TO PUNCH AND ANCHOR MULCH INTO THE SOIL SURFACE A MINIMUM OF 2 INCHES. THIS PRACTICE IS MOST EFFECTIVE ON LARGE AREAS, BUT IS LIMITED TO FLATTER SLOPES WHERE EQUIPMENT CAN OPERATE SAFELY. IF USED ON SLOPING LAND, THIS PRACTICE SHOULD FOLLOW THE

II. WOOD CELLULOSE FIBER MAY BE USED FOR ANCHORING STRAW, APPLY THE FIBER BINDER AT A NET DRY WEIGHT OF 750 POUNDS PER ACRE. MIX THE WOOD CELLULOSE FIBER WITH WATER AT A MAXIMUM OF 50 POUNDS OF WOOD CELLULOSE FIBER WITH WATER AT A MAXIMUM OF 50 POUNDS OF WOOD CELLULOSE

NETTING IS USUALLY AVAILABLE IN ROLLS 4 TO 15 FEET WIDE AND 300 TO 3,000 FEET LONG

STAPLE/STAKE MAY IN A STACGERED PATTERN ON 4 FOOT (MAXIMUM) CENTERS THROUGHOUT AND 2 FOOT (MAXIMUM) CENTERS ALONG SEAMS, JOINTS, AND ROLL ENDS.

U.S. DEPARTMENT OF AGRICULTURE: 2011 WATER-MD DEPARTMENT OF ENARONMENT URN. RESOURCES CONSERVATION SERVICE 2011

10 FT MAX

USE 42 INCH HIGH, 9 GAUGE OR THICKER CHAIN LINK FENCING (2% INCH MAXIMUM OPERING).

." Fasten Chain Link Fence Securely to the Fence Posts with wire thes.

USE 2% INCH DIAMETER GALVANIZED STEEL POSTS OF 0.095 INCH WALL THRONGESS AND SIX FOO' LENGTH SPACED NO FURTHER THAN 10 FEET APART. THE POSTS DO NOT NEED TO BE SET IN

SECURE 10 MIL OR THICKER UV RESISTANT, IMPERMEABLE SHEETING TO CHAIN LINK FENCE WITH THE SPACED EVERY 24 INCHES AT TOP, MID SECTION, AND BELOW GROUND SURFACE.

EXTEND SHEETING A MARMAN OF 4 FEET ALONG FLOW SURFACE AND EASED END A MINIMUM OF 8 INCHES NITO PROVINCE, SOIL STABILIZATION MATTING MAY BE USED IN LIEU OF IMPERMEABLE SUPPLIES ALONG SOME SIDELINE.

. KEEP FLOW SURFACE ALONG DIVERSION FENCE AND POINT OF DISCHARGE FREE OF EROSION. RI ACCUMULATED SEDMENT AND DEBRIS. MANITAN POSITIVE DRAINAGE. REPLACE IMPERMEABLE SHEETING TOON, IF UNDERTHINN COCKTRS, ROBISTALL FENCE. MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL

U.S. DEPARTMENT OF ACRICULTURE 2011 WARRIAND DEPARTMENT OF ENVIRONMENT WATER MANAGEMENT ADMINISTRATION

. WHEN TWO SECTIONS OF SHEETING ADJOIN EACH OTHER, OVERLAP BY 6 INCHES AND FOLD WITH SEA

----- OF ------

MAXIMUM DRAINAGE AREA = 2 AC

UV RESISTANT IMPERMEABLE SHEETING ON BOTH SIDES OF FENC

ESTABLISH AND MAINTAIN VECETATION SO THAT REQUIREMENTS FOR ADEQUATE VEGETATIVE ESTABLISHMENT ARE CONTINUOUSLY MET BI ACCORDANCE WITH SECTION 6-4 VEGETATIVE STABLISHMENT

DETAIL C-9 DIVERSION FENCE

EXTEND IMPERMEABLE SHEETING— OR PROVIDE SOIL STABILIZATION MATTING 4 FT MIN. ALONG FLOW SURFACE

CROUND SURFACE

B-4-5 STANDARDS AND SPECIFICATIONS FOR PERMANENT STABILIZATION DEFINITION
TO STABILIZE DISTURBED SOILS WITH PERMANENT VEGETATION.

TO USE LONG-LIVED PERENNIAL GRASSES AND LEGUMES TO ESTABLISH PERMANENT GROUND COVER ON DISTURBED SOILS. CONDITIONS WHERE PRACTICE APPLIES

EXPOSED SOILS WHERE GROUND COVER IS NEEDED FOR 6 MONTHS OR MORE

<u>Criteria</u> A. SEED MIXTURES

A.SELECT ONE OR MORE OF THE SPECIES OR MIXTURES LISTED IN TABLE 8.3 FOR THE APPROPRIATE PLANT HARDINESS ZONE (FROM FIGURE 8.3) AND BASED ON THE SITE CONDITION OR PURPOSE FOUND ON TABLE 8.2. ENTER SELECTED MIXTURE(S), APPLICATION RATES, AND SEEDING DATES IN THE PERMANENT SEEDING SUMMARY. THE SUMMARY IS TO BE B. ADDITIONAL PLANTING SPECIFICATIONS FOR EXCEPTIONAL SITES SUCH AS SHORELINES, STREAM BANKS, OR DUNES OR FOR SPECIAL PURPOSES SUCH AS WILDLIFE OR AESTHETIC TREATMENT MAY BE FOUND IN USDA-NRCS TECHNICAL FIELD OFFICE GUIDE, SECTION 342 — CRITICAL AREA PLANTING.

C. FOR SITES HAVING DISTURBED AREA OVER 5 ACRES, USE AND SHOW THE RATES RECOMMENDED BY THE SOIL TESTING D. FOR AREAS RECEIVING LOW MAINTENANCE, APPLY UREA FORM FERTILIZER (46-0-0) AT 3-1/2 POUNDS PER 1000 SQUARE FEET (150 POUNDS PER ACRE) AT THE TIME OF SEEDING IN ADDITION TO THE SOIL AMENDMENTS SHOWN IN THE PERMANENT SEEDING SUMMARY 2. TURFGRASS MIXTURES
A. AREAS WHERE TURFGRASS MAY BE DESIRED INCLUDE LAWNS, PARKS, PLAYGROUNDS, AND COMMERCIAL SITES WHICH WILL

RECEIVE A MEDIUM TO HIGH LEVEL OF MAINTENANCE.

B. SELECT ONE OR MORE OF THE SPECIES OR MIXTURES LISTED BELOW BASED ON THE SITE CONDITIONS OR PURPOSE. ENTER SELECTED MIXTURE(S), APPLICATION RATES, AND SEEDING DATES IN THE PERMANENT SEEDING SUMMARY. THE SUMMARY IS TO BE PLACED ON THE PLAN. KENTUCKY BLUEGRASS: FULL SUN MIXTURE: FOR USE IN AREAS THAT RECEIVE INTENSIVE MANAGEMENT. IRRIGATION REQUIRED IN THE AREAS OF CENTRAL MARYLAND AND EASTERN SHORE. RECOMMENDED CERTIFIED KENTUCKY
BLUEGRASS CULTIVARS SEEDING RATE: 1.5 TO 2.0 POUNDS PER 1000 SQUARE FEET. CHOOSE A MINIMUM OF THREE KENTUCKY BLUEGRASS CULTIVARS WITH EACH RANGING FROM 10 TO 35PERCENT OF THE TOTAL MIXTURE BY WEIGH II. KENTUCKY BLUEGRASS/PERENNIAL RYE: FULL SUN MIXTURE: FOR USE IN FULL SUN AREAS WHERE RAPID ESTABLISHMENT IS NECESSARY AND WHEN TURF WILL RECEIVE MEDIUM TO INTENSIVE MANAGEMENT. CERTIFIED PERENNIAL RYEGRASS CULTIVARS/CERTIFIED KENTUCKY BLUEGRASS SEEDING RATE: 2 POUNDS MIXTURE PER 1000 SQUARE FEET. CHOOSE A MINIMUM OF THREE KENTUCKY BLUEGRASS CULTIVARS WITH EACH RANGING FROM 10 TO 35 PERCENT OF THE TOTAL MIXTURE BY WEIGHT.

PERCENT OF THE TOTAL MIXTURE BY WEIGHT.

III. TALL FESCUE/KENTUCKY BLUEGRASS: FULL SUN MIXTURE: FOR USE IN DROUGHT PRONE AREAS AND/OR FOR AREAS RECEIVING LOW TO MEDIUM MANAGEMENT IN FULL SUN TO MEDIUM SHADE, RECOMMENDED MIXTURE INCLUDES; CERTIFIED TALL FESCUE CULTIVARS 95 TO 100 PERCENT, CERTIFIED KENTUCKY BLUEGRASS CULTIVARS 0 TO 5 PERCENT. SEEDING RATE: 5 TO 8 POUNDS PER 1000 SQUARE FEET. ONE OR MORE CULTIVARS MAY BE BLENDED. IV. KENTUCKY BLUEGRASS/FINE FESCUE: SHADE MIXTURE: FOR USE IN AREAS WITH SHADE IN BLUEGRASS LAWNS. FOR ESTABLISHMENT IN HIGH QUALITY, INTENSIVELY MANAGED TURF AREA. MIXTURE INCLUDES; CERTIFIED KENTUCKY BLUEGRASS CULTIVARS 30 TO 40 PERCENT AND CERTIFIED FINE FESCUE AND 60 TO 70 PERCENT. SEEDING RATE: 11/2

TO 3 POUNDS PER 1000 SQUARE FEET. NOTES: SELECT TURFGRASS VARIETIES FROM THOSE LISTED IN THE MOST CURRENT UNIVERSITY OF MARYLAND PUBLICATION, AGRONOMY MEMO #77, "TURFGRASS CULTIVAR RECOMMENDATIONS FOR MARYLAND".

CHOOSE CERTIFIED MATERIAL CERTIFIED MATERIAL IS THE BEST GUARANTEE OF CULTIVAR PURITY. THE

CERTIFICATION PROGRAM OF THE MARYLAND DEPARTMENT OF AGRICULTURE, TURF AND SEED SECTION, PROVIDES

A RELIABLE MEANS OF CONSUMER PROTECTION AND ASSURES A PURE GENETIC LINE.

C. IDEAL TIMES OF SEEDING FOR TURF GRASS MIXTURES

WESTEM MD: MARCH 15 TO JUNE 1, AUGUST 1 TO OCTOBER 1 (HARDINESS ZONES: 5B. 6A) ENTRAL MD: MARCH 1 TO MAY 15, AUGUST 15 TO OCTOBER 15 (HARDINESS ZONE: 6B) SOUTHERN MD. EASTERN SHORE: MARCH 1 TO MAY 15, AUGUST 15 TO OCTOBER 15 (HARDINESS ZONES: 7A, 7B)

D. TILL AREAS TO RECEIVE SEED BY DISKING OR OTHER APPROVED METHODS TO A DEPTH OF 2 TO 4 INCHES, LEVEL AND RAKE THE AREAS TO PREPARE A PROPER SEEDBED. REMOVE STONES AND DEBRIS OVER 1½ INCHES IN DIAMETER. THE RESULTING SEEDBED MUST BE IN SUCH CONDITION THAT FUTURE MOWING OF GRASSES WILL POSE NO DIFFICULTY.

E. IF SOIL MOISTURE IS DEFICIENT, SUPPLY NEW SEEDINGS WITH ADEQUATE WATER FOR PLANT GROWTH (1/2 TO 1 INCH EVERY 3 TO 4 DAYS DEPENDING ON SOIL TEXTURE) UNTIL THEY ARE FIRMLY ESTABLISHED. THIS IS ESPECIALLY TRUE WHEN SEEDINGS ARE MADE LATE IN THE PLANTING SEASON, IN ABNORMALLY DRY OR HOT SEASONS, OR ON ADVERSE PERMANENT SEEDING SUMMARY

		ONE (FROM FIGURE E (FROM TABLE B.:			LIME RATE			
Ю	SPECIES	APPLICATION RATE (LB/AC)	SEEDING Dates	SEEDING Depths	N	P ₂ O ₅	K ₂ 0	
1	COOL SEASON TAIL FESCUE & KENTUCKY BLUEGRASS OR EOWAL	T.F. 60 LB / AC K.B. 40 LB / AC	MAR 1 TO MAY 15 AUG 15 TO OCT 15	1/4-1/2 IN.	(1 LB PER	(2 LB PER	90 LB/AC (2 LB PER 1000 SF)	

8. SOD: TO PROMDE QUICK COVER ON DISTURBED AREAS (2:1 GRADE OR FLATTER).
1. GENERAL SPECIFICATIONS

A. CLASS OF TURFGRASS SOD MUST BE MARYLAND STATE CERTIFIED. SOD LABELS MUST BE MADE AVAILABLE TO THE JOB FOREMAN AND INSPECTOR. B. SOD MUST BE MACHINE CUT AT A UNIFORM SOIL THICKNESS OF 3/4 INCH, PLUS OR MINUS 1/4 INCH, AT THE TIME OF CUTTING, MEASUREMENT FOR THICKNESS MUST EXCLUDE TOP GROWTH AND THATCH, BROKEN PADS AND TOM OR UNEVEN

ENDS WILL NOT BE ACCEPTABLE.
C. STANDARD SIZE SECTIONS OF SOD MUST BE STRONG ENOUGH TO SUPPORT THEIR OWN WEIGHT AND RETAIN THEIR SIZE AND SHAPE WHEN SUSPENDED VERTICALLY WITH A FIRM GRASP ON THE UPPER 10 PERCENT OF THE SECTION. D. SOD MUST NOT BE HARVESTED OR TRANSPLANTED WHEN MOISTURE CONTENT (EXCESSIVELY DRY OR WET) MAY ADVERSELY AFFECT ITS SURVIVAL.

E. SOD MUST BE HARVESTED, DELIVERED, AND INSTALLED WITHIN A PERIOD OF 36 HOURS. SOD NOT TRANSPLANTED WITHIN

HIS PERIOD MUST BE APPROVED BY AN AGRONOMIST OR SOIL SCIENTIST PRIOR TO ITS INSTALLATION. A DURING PERIODS OF EXCESSIVELY HIGH TEMPERATURE OR IN AREAS HAVING DRY SUBSOIL, LIGHTLY IRRIGATE THE SUBSOIL IMMEDIATELY PRIOR TO LAYING THE SOD,
B. LAY THE FIRST ROW OF SOD IN A STRAIGHT LINE WITH SUBSEQUENT ROWS PLACED PARALLEL TO IT AND TIGHTLY

WEDGED AGAINST EACH OTHER. STAGGER LATERAL JOINTS TO PROMOTE MORE UNIFORM GROWTH AND STRENGTH. ENSURE THAT SOD IS NOT STRETCHED OR OVERLAPPED AND THAT ALL JOINTS ARE BUTTED TIGHT IN ORDER TO PREVENT VOIDS WHICH WOULD CAUSE AIR DRYING OF THE ROOTS.
WHEREVER POSSIBLE, LAY SOD WITH THE LONG EDGES PARALLEL TO THE CONTOUR AND WITH STAGGERING JOINTS. ROLL AND TAMP, PEG OR OTHERWISE SECURE THE SOD TO PREVENT SUPPAGE ON SLOPES. ENSURE SOLID CONTACT EXISTS BETWEEN SOD ROOTS AND THE UNDERLYING SOIL SURFACE WATER THE SOD IMMEDIATELY FOLLOWING ROLLING AND TAMPING UNTIL THE UNDERSIDE OF THE NEW SOD PAD AND SOIL SURFACE BELOW THE SOD ARE THOROUGHLY WET. COMPLETE THE OPERATIONS OF LAYING, TAMPING AND IRRIGATING FOR

SOO MAINTENANCE A. IN THE ABSENCE OF ADEQUATE RAINFALL, WATER DAILY DURING THE FIRST WEEK OR AS OFTEN AND SUFFICIENTLY AS B. AFTER THE FIRST WEEK, SOD WATERING IS REQUIRED AS NECESSARY TO MAINTAIN ADEQUATE MOISTURE CONTENT. C. DO NOT MOW UNTIL THE SOO IS FIRMLY ROOTED, NO MORE THAN 1/3 OF THE GRASS LEAF MUST BE REMOVED BY THE INITIAL CUTTING OR SUBSEQUENT CUTTINGS. MAINTAIN A GRASS HEIGHT OF AT LEAST 3 INCHES UNLESS OTHERWISE

LEGEND

TYPE A MAXIMUM DRAMAGE AREA - X ACRE TYPE 8 MAXIMUM DRAMAGE AREA - 1 ACRE

SECTION FOR TYPE A AND B

U.S. DEPARTMENT OF AGRICULTURE NATURAL RESOURCES CONSERVATION SERVICE 2011 MARYLAND DEPARTMENT OF ENVIRONMENT ADMINISTRATION

DETAIL 24 - STABILIZED CONSTRUCTION ENTRANCE

1. LENGTH - MINIMUM OF 50' (* 30' FOR A SINGLE RESIDENCE LOT).

2. WIDTH - 10' MINIMUM, SHOULD BE FLARED AT THE EXISTING ROAD TO PROVIDE A TURNING RADUS

CEOTECTILE FABRIC (FILTER CLOTH) SHALL BE PLACED OVER THE EQISTING GROUND PRIOR TO PLACING STORE. → THE PLAN APPROVIAL AUTHORITY MAY NOT REQUIRE SINGLE FAMELY RESIDENCES TO USE GEOTECTILE.

STORE - CRUSHED AGGREGATE (2" TO 3") OR RECLAMED OR RECYCLED CONCRETE

'CEOTEXTILE CLASS-'C' OR BETTER

SCE &

LIMIT OF DISTURBANCE

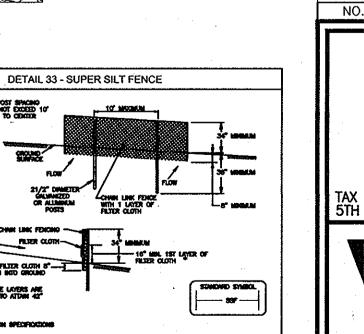
PROPOSED PAVEMENT PROPOSED MICRO BIORETENTION FACILITY

PROPOSED EROSION CONTROL

----SSF---- SUPER SILT FENCE

——DF—— CLEAN WATER DIVERSION FENCE

STABILIZED CONSTRUCTION ENTRANCE



1. FENCING SHILL, BE, 42° IN HEIGHT AND CONSTRUCTED IN ACCORDANCE WITH THE LATEST IMPRILAND SEXUE HIGHBIT DEDILS FOR CHAIN LINK FENCING. THE SPECIFICATION FOR A 6° FENCE SHALL BE USED, SUBSTITUTING 42° FABRIC AND 6° LENGTH

* IF MULTIPLE LAYERS ARE RECULIED TO ATTAIN 42"

3. Filter cloth shall be fastened securely to the chain link feace with ties spaced enery 24° at the top and mid section.

4. FILTER CLOTH SHALL BE EMBEDDED A MINIMUM OF 6" INTO THE GROUND. 6. WHEN TWO SECTIONS OF PILTER CLOTH ADJOIN EACH OTHER, THEY SHALL SE OVERLAPPED BY 8" AND FOLDED. 4. MANTENNICE SHILL BE PERFORMED AS NEEDED AND SILT BUILDUPS REMOVED WHEN "SULGES" DEVELOP IN THE SILT PENCE, OR WHEN SILT REVOKES BOX OF FENCE HEART 7. FILTER CLOTH SHALL BE FRETEHED SECURELY TO EACH FERIOL POST WITH THE CRESCAST TOP AND MED SECTION AND SHALL MEET THE FOLLOWING REQUIREMENTS FOR REPORTED LOSS θ :

SEDIMENT CONTROL PLAN, NOTES & DETAILS F-13-082 **HOLIDAY HILLS** LOTS 115 & 116 A RESUBDIVISION OF LOT 43 OF HOLIDAY HILLS, PLAT BOOK 7 FOLIO 41 ECP-13-016 TAX MAP 41, GRID 6 5TH ELECTION DISTRICT HOWARD COUNTY, MARYLAND ROBERT H. VOGEL

REVISION

HOWARD SOIL CONSERVATION DISTRICT

STANDARD SEDIMENT CONTROL NOTES

START OF ANY CONSTRUCTION, (313-1855).

AND REVISIONS THERETO.

SITE ANALYSIS:

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

ALL VEGETATIVE AND STRUCTURAL PRACTICES ARE TO BE INSTALLED ACCORDING TO THE

FOLLOWING INITIAL SOIL DISTURBANCE OR REDISTURBANCE, PERMANENT OR FEMPORARY STABILIZATION SHALL BE COMPLETED WITHIN: A) 3 CALENDAR DAYS FOR ALL PERIMETER

THAN 3:1, B) 7 DAYS AS TO ALL OTHER DISTURBED OR GRADED AREAS ON THE

SEDIMENT CONTROL STRUCTURES, DIKES, PERIMETER SLOPES AND ALL SLOPES GREATER

ALL DISTURBED AREAS MUST BE STABILIZED WITHIN THE TIME PERIOD SPECIFIED ABOVE IN ACCORDANCE WITH THE 2011 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL

EROSION AND SEDIMENT CONTROL FOR PERMANENT SEEDING (SEC. B-4-5). TEMPORARY

SEEDING (SEC. B-4-4) AND MULCHING (SEC B-4-3). TEMPORARY STABILIZATION WITH MULCH ALONE CAN ONLY BE DONE WHEN RECOMMENDED SEEDING DATES DO NOT

MAINTAINED IN OPERATIVE CONDITION UNTIL PERMISSION FOR THEIR REMOVAY, HAS BEEN

OFFSITE WASTE/BORROW AREA LOCATION ____N/A___

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

ON ALL SITES WITH DISTURBED AREAS IN EXCESS OF 2 ACRES. APPROVAL OF THE

INSPECTION AGENCY SHALL BE REQUESTED UPON COMPLETION OF INSTALLATION OF

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,

PROCEED TO A SUBSEQUENT GRADING UNIT WHEN AT LEAST 50 PERCENT OF THE

APPROVED BY THE ENFORCEMENT AUTHORITY. UNLESS OTHERWISE SPECIFIED AND

ESTIMATE ONLY; CONTRACTOR SHALL VERIFY QUANTITIES TO HIS OWN SATISFACTION.
TO BE DETERMINED BY CONTRACTOR, WITH PRE-APPROVAL OF THE SEDIMENT CONTROL.

INSPECTOR, WITH AN APPROVED AND ACTIVE GRADING PERMIT

CONSTRUCTION. 410-313-2455 (2 DAYS)

GRUB SITE.

7. BEGIN SITE GRADING AND UTILITY CONSTRUCTION.

COURSE. (2 DAYS)
10. INSTALL ALL PAVING SURFACE COURSE. (1 DAY)

AND DEBRIS FROM ENTIRE PARCEL. (2 DAYS)

2. NOTIFY HOWARD COUNTY AT LEAST 48 HOURS PRIOR TO START OF

3. CONDUCT A PRE-CONSTRUCTION MEETING WITH THE SEDIMENT

5. INSTALL SUPER SILT FENCE AND DIVERSION FENCE AS INDICATED ON PLAN (3 DAYS)

6. WITH APPROVAL OF SEDIMENT CONTROL INSPECTOR, CLEAR AND

9. WITH INSPECTOR'S APPROVAL, INSTALL ON-SITE PAVING BASE

12. INSTALL SITE LANDSCAPING, MICRO BIORETENTION FACILITIES AND DRYWELLS. (1 WEEK)

DRYWELLS. (1 WEEK)

13. REMOVE ALL SEDIMENT CONTROL MEASURES AFTER RECEIVING APPROVAL FROM THE SEDIMENT CONTROL INSPECTOR. (2 DAYS)

DURING GRADING AND AFTER EACH RAINFALL, CONTRACTOR WILL INSPECT AND PROVIDE

NECESSARY MAINTENANCE TO THE SEDIMENT CONTROL MEASURES ON THIS PLAN. . FOLLOWING INITIAL SOIL DISTURBANCES OR RE-DISTURBANCE, PERMANENT OR TEMPORARY

A. THREE (3) CALENDAR DAYS AS TO THE SURFACE OF ALL PERIMETER DIKES. SWALES.

B. SEVEN (7) CALENDAR DAYS TO ALL OTHER DISTURBED OR GRADED AREAS ON THE

DITCHES, PERIMETER SLOPES, AND ALL SLOPES STEEPER THAN 3 HORIZONTAL TO 1

11. FINE GRADE AND STABILIZE ALL AREAS OF PARCEL INCLUDING ANY

EXPOSED EARTH AREAS OUTSIDE THE LOD. REMOVE ALL TRASH JUNK

CONTROL INSPECTOR PRIOR TO ANY LAND DISTURBANCE. (1 DAY) 4. INSTALL STABILIZED CONSTRUCTION ENTRANCE WITH MOUNTABLE BERM. (2 DAYS)

SEQUENCE OF CONSTRUCTION

8. BEGIN BUILDING CONSTRUCTION.

STABILIZATION SHALL BE COMPLETED WITHIN:

PROJECT SITE NOT UNDER ACTIVE GRADING.

SD PROPERTIES

3138 ROGERS AVENUE

VERTICAL (3:1); AND

APPROVED BY THE APPROVAL AUTHORITY, NO MORE THAN 30 ACRES CUMULATIVELY MAY BE DISTURBED ATA GIVEN TIME.

DISTURBED AREA IN THE PRECEDING GRADING UNIT HAS BEEN STABILIZED AND

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

A PROJECT IS TO BE SEQUENCED SO THAT GRADING ACTIVITIES BEGIN ON ONE GRADING UNIT (MAXIMUM ACREAGE OF 20 ACRES PER GRADING UNIT) AT A TIME. WORK MAY

AREA TO BE ROOFED OR PAVED

AREA TO BE VEGETATIVELY STABILIZED

TOTAL CUT

TOTAL FILL

ACRES

300

CU. YDS.*

CU. YDS.*

1.00 ACRES 0.57 ACRES 0.17 ACRES

(12 WEEKS)

ALL SEDIMENT CONTROL STRUCTURES ARE TO REMAIN IN PLACE AND ARE TO BE

ALLOW FOR PROPER GERMINATION AND ESTABLISHMENT OF GRASSES.

OBTAINED FROM THE HOWARD COUNTY SEDIMENT CONTROL INSPECTOR.

TOTAL AREA OF SITE

area disturbed

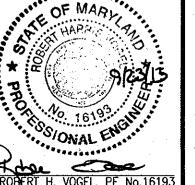
HOWARD COUNTY SEDIMENT CONTROL INSPECTOR.

WHICHEVER IS SHORTER.

PROVISIONS OF THIS PLAN AND ARE TO BE IN CONFORMANCE WITH THE MOST CURRENT

"MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL",





<u>JER</u> UNDER THE LAWS OF THE STATE OF MARYLAND EDS CHECKED BY:

3 SHEET 3

PROFESSIONAL CERTIFICATION

LICENSE NO. 16193 EXPIRATION DATE:

HEREBY CERTIFY THAT THESE DOCUMENTS WE

PREPARED OR APPROVED BY HE, AND THAT I

F-13-082

DATE

