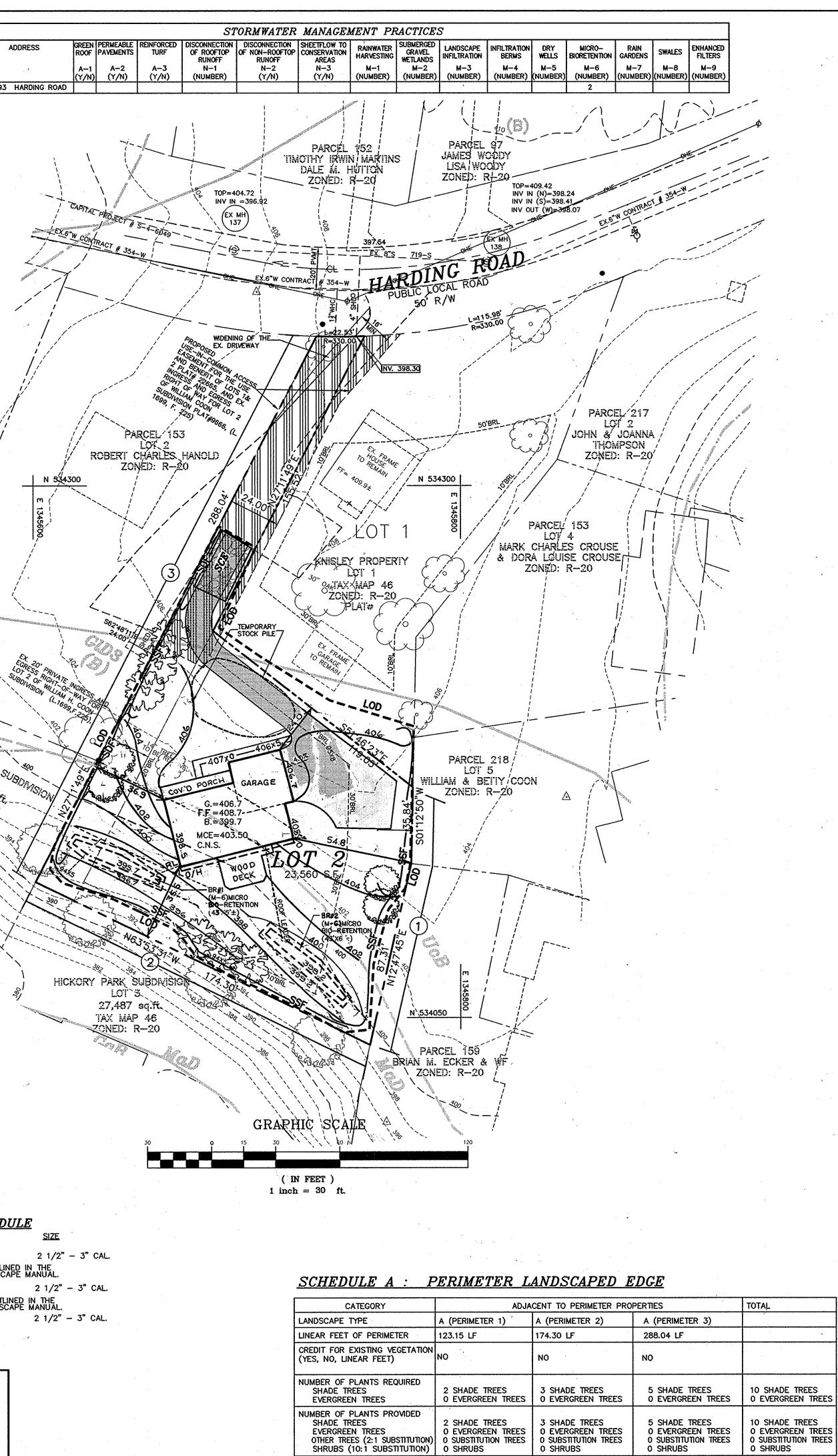
		- MANOR LOAM	M, 15-25% S	SLOPES BELTSVILLE COMPLE	EX, 0—5% SL	_OPES.			LOT #
									2 10693
: · · · ·		 PER1	MIT IN	VFORMATI	ION B	LOCK	•		
1	SUBDIVISION N KNISLEY PROP			SECTION/AREA:	N/A	PARCE LOT 2	EL: 388		
	PLAT NO.	BLOCK(S) 18	ZONING R-20	TAX MAP NO. 46	ELECTION	DISTRICT	CENSUS		
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	<u>ADDI</u>	RESS C	<u>'HART</u>		· .		·		
	LOT #		DRESS						
	2	10693 HAF	RDING ROAD			· .			
	INDE	X OF	DRAW	VINGS					
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· · · · · · · · · · · · · · · · · · ·		SITE DEVELO	OPMENT PLAN	N	-				
	2	SEDIMENT G	ONTROL NUT	TES AND DETAILS]				
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		SANITARY MH		• • •	[
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	WM	WATER METER			53				
	N	MINOR CONTOUR				NUTRATIVE STATE	· .		20 LOT 1
	Star STE S	MAJOR CONTOUR STABILIZED CONST ENTRANCE	TRUCTION				-	<u></u>	14-403 4 20No-445 ⁸ 2.6
		entrance proposed silt fen	NCE		4.004		54.67 [*]		7. A . 46 20
	6	IMITS OF DISTURBAN			42.00'	GARAGE	57 SQ. FT.	38.00	
• .	(3) _P	PERIMETER LANDSC/	APING		4	4.00	COVERED		
						<u>25.33'</u> 58	<u> </u>	34'	
		:					<u>)T 2</u>		
toria. Por cas	an An Anna Anna An Anna Anna					SCALE:	1"=30'		
<u>0</u>	WNER/	DEVELC	· · · · · · · · · · · · · · · · · · ·				n an		
		HARDING RO	AD						
		97-0296 OPERS CERT	TIFICATE						
ACCORDING	HAT ALL DEVELOPM TO THIS PLAN, ANI IN THE CONSTRUCTION E AT A DEPARTMEN	ND THAT ANY RESP ON PROJECT WILL H	PONSIBLE PERSO HAVE A CERTIFI	ONNEL FICATE OF					
TRAINING PR	ROGRAM FOR THE C THE PROJECT. I AL TURAL RESOURCE C	CONTROL OF SEDIM	MENT AND EROS ERIODIC ON-SITI	SION BEFORE					
Jum	2. Cha	Lle.		2-11-1	14				
JAME	of developer			DATE					
PRINTED NA	ame of developer <u>ENGI</u>	R INEER'S CER	TIFICATE	• • • •					
A PRACTICA	THAT THIS PLAN FO AL AND WORKABLE CONDITIONS AND THA NTS OF THE NATUR	PLAN BASED ON M	MY PERSONAL H	KNOWEDGE OF					
		1		2/10/14		IIIY SYMB		SCAPE REQUIREME BOTANICAL NAME	<u>'NT PLANTING SCHED</u> COMMON NAME
/	OF ENGINEER			DATE	5	E S		ACER RUBRUM 'RED SUNSET' OR EQUIVALENT AS OUTLINED IN HOWARD COUNTY LANDSCAPE M	RED SUNSET RED MAPLE I THE OR EQUIVALENT AS OUTLI IANUAL. HOWARD COUNTY LANDSC
	B HIKMAT P.E.				5	C	~~~ (QUERCUS RUBA 'RED OAK'	RED OAK
EROSION	VELOPMENT PLA AND SEDIMENT NSERVATION DIS	T CONTROL BY	D FOR SOIL	۶D.		TAL D TREES (1		OR EQUIVALENT AS OUTLINED HOWARD COUNTY LANDSCAPE TREES)	IN THE OR EQUIVALENT AS OUT MANUAL. HOWARD COUNTY LANDS
4	h LV	that	a	3/6	14		10 3000	IKELSJ	
HOW RD		ATION DISTRICT		DATE		UNTE OF M	ARY 10		
<u>CI</u>	r. J.		· ·	3.12.		COB C C C C	All The second	I HEREBY CERTIFY THA PREPARED OR APPROV	T THESE DOCUMENTS WERE
CHIEF, DEV	VELOPMENT ENG	INEERING DIVIS	ION JW	DATE 3-14-14	Se D		*	A DULY LICENSED PRO THE LAWS OF THE STA NO. 17942, EXP. DATE	FESSIONAL ENGINEER UNDER ATE OF MARYLAND, LICENSE 9/03/14.
		DEVELOPMENT		DATE	-	\circ n	10 . SIS		2/10/14



5 SHADE TREES 0 EVERGREEN TREES 0 SUBSTITUTION TREES 0 SHRUBS

10 SHADE TREES 0 EVERGREEN TREES 0 SUBSTITUTION TREES 0 SHRUBS

-	216 29 29 29	date date FEB. 2014 engineering MMM approval RJH
F	HO.CO. 46EA BERTING CHERRITIA	06 // 12-037 12-037 Illustration MMM scale 1"=30'
	MURPH CO CT	
	HO.CO. 46EB	MATCH 1
	HARDING ROAD	Gio. ELEV. To
	ROCET	9 J F F
	<u>CENERAL NOTES:</u> Note: 1"=1500' ADC MAP: 39, E- SCALE: 1"=1500' ADC MAP: 39, E- SCALE: 1"=1500' ADC MAP: 39, E- SCALE: 1"=1500'	E GRD. AND MICRO MICRO descrip revisio
	2. <u>SITE ANALYSIS DATA:</u> LOCATION: TAX MAP : 46 PARCEL: 388 LOT 1 ELECTION DISTRICT : SIXTH ZONING:	REVISE AS-BUI
	ZONING: R-20 TOTAL AREA: 0.54 AC.± LIMIT OF DISTURBED AREA: 0.50 AC.± PROPOSED USE FOR SITE : RESIDENTIAL. TOTAL NUMBER OF UNITS : 1	
	TYPE OF PROPOSED UNIT : SFD DPZ FILE NOS: F-87-048, F-89-160, F-03-217, PLAT# 18682-3, ECP-13-052, F-13-098. DEED: L10457 F.289 3. ON-SITE TOPOGRAPHY SHOWN HEREON IS BASED ON A FIELD RUN SURVEY CONDUCTED BY	
	MILDENBERG, BOENDER AND ASSOCIATES ON OR ABOUT DECEMBER 2012. 4. HORIZONTAL AND VERTICAL DATUMS ARE RELATED TO THE MARYLAND STATE PLANE COORDINATE SYSTEM AS PROJECTED FROM HOWARD	LAND
	COUNTY CONTROL STATIONS NO. 46EA AND 46EB. STA. No. 46EA: N 536,185.423 E 1,338,091.710 ELEV. 415.10 STA. No. 46EB: N 534,750.221 E 1,337,742.800 ELEV. 413.24 5. NO WETLANDS, STREAM(S) OR THEIR BUFFERS, FOREST CONSERVATION EASEMENT, FLOODPLAIN, OR STEEP	MARYLAND
	 S. NO WEILANDS, STREAM(S) OR THEIR BOFFERS, FOREST CONSERVATION EASEMENT, FLOODFLAIN, OR STEEP SLOPES EXIST ON SITE AS CERTIFIED UNDER F-13-098. a. SUBJECT PROPERTY ZONED R-20 RESIDENTIAL PER THE 10/06/13 COMPREHENSIVE ZONING PLAN AND PER THE COMP LITE ZONING AMENDMENT EFFECTIVE 7/28/06. 	ΓY ounty,
¢	 b. IN ACCORDANCE WITH SECTION 128 OF THE HOWARD COUNTY ZONING REGULATIONS, BAY WINDOWS, CHIMNEYS OR EXTERIOR STAIRWAYS NOT MORE THAN 16 FEET IN WIDTH MAY PROJECT NOT MORE THAN 4 FEET INTO ANY SETBACKS. PORCHES OR DECKS, OPEN OR ENCLOSED MAY PROJECT NOT MORE THAN 10 FEET INTO THE FRONT OR REAR YARD SETBACK. 	
	c. NO GRADING, REMOVAL OF VEGETATIVE COVER OR TREES, OR PLACEMENT OF NEW PAVING OR STRUCTURES IS PERMITTED WITHIN THE LIMITS OF WETLANDS, STREAM(S), OR THEIR BUFFERS, FOREST CONSERVATION EASEMENT AREAS AND 100-YEAR FLOODPLAIN.	OPER 2 388, LOT 1 HOWARD NT PLAN
	d. DRIVEWAYS SHALL BE PROVIDED PRIOR TO ISSUANCE OF A USE AND OCCUPANCY PERMIT FOR ANY NEW DWELLINGS TO ENSURE SAFE ACCESS FOR FIRE AND EMERGENCY VEHICLES PER THE FOLLOWING MINIMUM REQUIREMENTS: WIDTH - 12 FEET (16 FEET SERVING MORE THAN ONE RESIDENCE). 	
	 SURFACE - 6 INCHES OF COMPACTED CRUSHER RUN BASE WITH TAR AND CHIP COATING (1-1/2 INCH MINIMUM). GEOMETRY - MAXIMUM 15% GRADE, MAXIMUM 10% GRADE CHANGE AND MINIMUM OF 45-FOOT TURNING RADIUS. 	PR ANI RCEL
	 STRUCTURES (CULVERT/BRIDGES) - CAPABLE OF SUPPORTING 25 GROSS TONS 9H25 LOADING; DRAINAGE ELEMENTS-CAPABLE OF SAFELY PASSING 100-YEAR FLOOD WITH NO MORE THAN 1 FOOT DEPTH OVER DRIVEWAY SURFACE. MAINTENANCE - SUFFICIENT TO ENSURE ALL WEATHER USE. 	EY PRO Lots 1 and 2 P: 46 parcel: 38 DEVELOPMENT
	7. SEWER HOUSE CONNECTION ELEVATIONS SHOWN ARE LOCATED AT THE PROPERTY LINE OR EASEMENT LINE. 8. THE CONTRACTOR SHALL NOTIFY THE FOLLOWING UTILITIES OR AGENCIES AT LEAST 48 HOURS PRIOR TO	
	EXCAVATION WORK BEING DONE. MISS UTILITY 800–257–7777 VERIZON TELEPHONE COMPANY (410) 725–9976 HOWARD COUNTY BUREAU OF UTILITIES (410) 313–4900 AT&T CABLE LOCATION DIVISION (410) 393–3533	ISL ISL SITE
	BALTIMORE GAS & ELECTRIC (410) 685–0123 STATE HIGHWAY ADMINISTRATION (410) 531–5533 9. THE CONTRACTOR SHALL NOTIFY THE DEPARTMENT OF PUBLIC WORKS/BUREAU OF ENGINEERING/CONSTRUCTION	≥ KNIS DISTRICT SIT
	INSPECTION DIVISION AT (410) 313-1880 AT LEAST FIVE (5) WORKING DAYS PRIOR OT THE START OF WORK. 10. PROPERTY IS LOCATED WITHIN THE METROPOLITAN DISTRICT. PUBLIC WATER AND SEWER WILL BE UTILIZED UNDER CONTRACT # 354-W AND 719-S.	
	11. FINANCIAL SURETY IN THE AMOUNT OF \$3,000.00 FOR THE REQUIRED LANDSCAPING WILL BE POSTED WITH THE GRADING PERMIT FOR LOT 2.	ELECTION
	12. THE OWNER, TENANT, AND/OR THEIR AGENTS SHALL BE RESPONSIBLE FOR MAINTENANCE OF THE REQUIRED LANDSCAPING, INCLUDING BOTH PLANT MATERIALS AND BERMS, FENCES, AND WALLS. ALL PLANT MATERIALS SHALL BE MAINTAINED IN GOOD GROWING CONDITION, AND WHEN NECESSARY, REPLACED WITH NEW MATERIALS TO ENSURE CONTINUED COMPLIANCE	6TH F
	WITH APPLICABLE REGULATIONS. ALL OTHER REQUIRED LANDSCAPING SHALL BE PERMANENTLY MAINTAINED IN GOOD CONDITION, AND WHEN NECESSARY, REPAIRED OR REPLACED.	n, cuñ
	 NO BURIAL GROUNDS OR CEMETERIES EXIST ON SITE. FOR FLAG OR PIPESTEM LOTS, REFUSE COLLECTION, SNOW REMOVAL AND ROAD MAINTENANCE ARE PROVIDED TO THE JUNCTION OF THE FLAG OR PIPESTEM LOT AND ROAD RIGHT-OF-WAY LINE AND NOT TO THE PIPESTEM LOT DRIVEWAY. 	
	15. STORMWATER MANAGEMENT IS PROVIDED VIA MICROBIORETENTION FACILITIES AND APPROVED UNDER F-13-09 16. FOREST CONSERVATION OBLIGATIONS FOR THIS RESUBDIVISION IS PROVIDED UNDER F-03-217.	
x	17. THE OPEN SPACE REQUIREMENT FOR THIS RESUBDIVISION IS MET BY A PAYMENT OF FEE-IN-LIEU IN THE AMOUNT OF \$1,500.00 UNDER F-13-098.	IN(
	 THIS SITE IS NOT LOCATED IN A HISTORIC DISTRICT. 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 	DC., 1 ors and 21075 Fax.
	WITH THE HOWARD COUNTY LANDSCAPE MANUAL. IN ADDITION, NO SUBSTITUTIONS OR RELOCATION OF REQUIRED PLANTINGS 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.	ASSOC Surveyors 1997-0298 Fax
	20. NO TRAFFIC STUDY IS REQUIRED FOR THIS PROJECT. 21. NO NOISE STUDY IS REQUIRED FOR THIS PROJECT.	BERG, R & . Planners ut. (410)
	 THE EXISTING SINGLE FAMILY DWELLING ON LOT 1 IS TO REMAIN AND IS CONSIDERED NON-CONFORMING WITH THE RECORDATION OF F-13-098. COMMUNITY MEETING FOR THIS PROJECT WAS HELD AT SAVAGE PUBLIC LIBRARY ON 	
	02/06/13 AT 6:00 PM. 24. A USE-IN-COMMON MAINTENANCE AGREEMENT WAS RECORDED (LIBER 15457, FOLIO 192-203) UNDER F-13-098.	[ILDEN OEND] Engineers oath Road, Sa
		MIL BOE Engin Engin (410) 99
) (1 of 2)

SDP- 14-022

STANDARDS AND SPECIFICATIONS FOR SOIL PREPARATION, TOPSOILING, AND SOIL AMENDMENTS	SEEDING AND MULCHING
<u>FINITION</u> E PROCESS OF PREPARING THE SOILS TO SUSTAIN ADEQUATE VEGETATIVE STABILIZATION. RPOSE	DEFINITION THE APPLICATION OF SEED AND MULCH TO ESTABLISH VEGETATIVE COVER. PURPOSE
PROVIDE A SUITABLE SOIL MEDIUM FOR VEGETATIVE GROWTH.	TO PROTECT DISTURBED SOILS FROM EROSION DURING AND AT THE END OF CONSTRUCTION. CONDITIONS WHERE PRACTICE APPLIES
E VEGETATIVE STABILIZATION IS TO BE ESTABLISHED. IRIA IL PREPARATION	TO THE SURFACE OF ALL PERIMETER CONTROLS, SLOPES, AND ANY DISTURBED AREA NOT UNDER ACTIVE CRITERIA A. SEEDING
PORARY STABILIZATION EEDBED PREPARATION CONSISTS OF LOOSENING SOIL TO A DEPTH OF 3 TO 5 INCHES BY MEANS OF UITABLE AGRICULTURAL OR CONSTRUCTION EQUIPMENT, SUCH AS DISC HARROWS OR CHISEL PLOWS OR	1. SPECIFICATIONS a. ALL SEED MUST MEET THE REQUIREMENTS OF THE MARYLAND STATE SEED LAW. ALL SEED MUST BE TO RE-TESTING BY A RECOGNIZED SEED LABORATORY. ALL SEED USED MUST HAVE BEEN TESTED W
PPERS MOUNTED ON CONSTRUCTION EQUIPMENT. AFTER THE SOIL IS LOOSENED, IT MUST NOT BE ROLLED DRAGGED SMOOTH BUT LEFT IN THE ROUGHENED CONDITION. SLOPES 3:1 OR FLATTER ARE TO BE ACKED WITH RIDGES RUNNING PARALLEL TO THE CONTOUR OF THE SLOPE.	MONTHS IMMEDIATELY PRECEDING THE DATE OF SOWING SUCH MATERIAL ON ANY PROJECT. REFER TO B.4 REGARDING THE QUALITY OF SEED. SEED TAGS MUST BE AVAILABLE UPON REQUEST TO THE INSI VERIFY TYPE OF SEED AND SEEDING RATE.
LY FERTILIZER AND LIME AS PRESCRIBED ON THE PLANS. DRPORATE LIME AND FERTILIZER INTO THE TOP 3 TO 5 INCHES OF SOIL BY DISKING OR OTHER ABLE MEANS.	 MULCH ALONE MAY BE APPLIED BETWEEN THE FALL AND SPRING SEEDING DATES ONLY IF THE GROU FROZEN. THE APPROPRIATE SEEDING MIXTURE MUST BE APPLIED WHEN THE GROUND THAWS. INOCULANTS: THE INOCULANT FOR TREATING LEGUME SEED IN THE SEED MIXTURES MUST BE A PURE
<u>VENT STABILIZATION</u> NIL TEST IS REQUIRED FOR ANY EARTH DISTURBANCE OF 5 ACRES OR MORE. THE MINIMUM SOIL DITIONS REQUIRED FOR PERMANENT VEGETATIVE ESTABLISHMENT ARE:	OF NITROGEN FIXING BACTERIA PREPARED SPECIFICALLY FOR THE SPECIES. INOCULANTS MUST NOT B LATER THAN THE DATE INDICATED ON THE CONTAINER. ADD FRESH INOCULANTS AS DIRECTED ON TH USE FOUR TIMES THE RECOMMENDED RATE WHEN HYDROSEEDING. NOTE: IT IS VERY IMPORTANT TO K
. PH BETWEEN 6.0 AND 7.0. UBLE SALTS LESS THAN 500 PARTS PER MILLION (PPM). L CONTAINS LESS THAN 40 PERCENT CLAY BUT ENOUGH FINE GRAINED MATERIAL (GREATER THAN 30	INOCULANT AS COOL AS POSSIBLE UNTIL USED. TEMPERATURES ABOVE 75 TO 80 DEGREES FAHRENH 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 CONTROL UNTIL SUFFICIENT TIME HAS ELAPSED (14 DAYS MIN.) TO PERM
CENT SILT PLUS CLAY) TO PROVIDE THE CAPACITY TO HOLD A MODERATE AMOUNT OF MOISTURE. AN EPTION: IF LOVEGRASS WILL BE PLANTED, THEN A SANDY SOIL (LESS THAN 30 PERCENT SILT PLUS Y) WOULD BE ACCEPTABLE.	DISSIPATION OF PHYTO-TOXIC MATERIALS. 2. APPLICATION
IL CONTAINS 1.5 PERCENT MINIMUM ORGANIC MATTER BY WEIGHT. IL CONTAINS SUFFICIENT PORE SPACE TO PERMIT ADEQUATE ROOT PENETRATION. LICATION OF AMENDMENTS OR TOPSOIL IS REQUIRED IF ON—SITE SOILS DO NOT MEET THE ABOVE DITIONS.	 DRY SEEDING: THIS INCLUDES USE OF CONVENTIONAL DROP OR BROADCAST SPREADERS. INCORPORATE SEED INTO THE SUBSOIL AT THE RATES PRESCRIBED ON TEMPORARY SEEDING TABLE PERMANENT SEEDING TABLE B.3, OR SITE-SPECIFIC SEEDING SUMMARIES.
ED AREAS MUST BE MAINTAINED IN A TRUE AND EVEN GRADE AS SPECIFIED ON THE APPROVED PLAN, SCARIFIED OR OTHERMISE LOOSENED TO A DEPTH OF 3 TO 5 INCHES. Y SOIL AMENDMENTS AS SPECIFIED ON THE APPROVED PLAN OR AS INDICATED BY THE RESULTS OF	II. APPLY SEED IN TWO DIRECTIONS, PERPENDICULAR TO EACH OTHER. APPLY HALF THE SEEDING RA EACH DIRECTION. ROLL THE SEEDED AREA WITH A WEIGHTED ROLLER TO PROVIDE GOOD SEED TO CONTACT.
TEST. DIL AMENDMENTS INTO THE TOP 3 TO 5 INCHES OF SOIL BY DISKING OR OTHER SUITABLE MEANS. LAWN AREAS TO SMOOTH THE SURFACE, REMOVE LARGE OBJECTS LIKE STONES AND BRANCHES, AND	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 A 1/4 INCH OF SOIL COVERING. SEEDBED MUST BE FIRM AFTER PLANTING.
Y THE AREA FOR SEED APPLICATION. LOOSEN SURFACE SOIL BY DRAGGING WITH A HEAVY CHAIN OR R EQUIPMENT TO ROUGHEN THE SURFACE WHERE SITE CONDITIONS WILL NOT PERMIT NORMAL SEEDBED ARATION, TRACK SLOPES 3:1 OR FLATTER WITH TRACKED EQUIPMENT LEAVING THE SOIL IN AN	II. ÁPPLY SEED IN TWO DIRECTIONS, PERPENDICULAR TO EACH OTHER. APPLY HALF THE SEEDING RA EACH DIRECTION. c. HYDROSEEDING: APPLY SEED UNIFORMLY WITH HYDROSEEDER (SLURRY INCLUDES SEED AND FERTILIZ
ULAR CONDITION WITH RIDGES RUNNING PARALLEL TO THE CONTOUR OF THE SLOPE. LEAVE THE TOP 3 INCHES OF SOIL LOOSE AND FRIABLE. SEEDBED LOOSENING MAY BE UNNECESSARY ON NEWLY RBED AREAS.	I. IF FERTILIZER IS BEING APPLIED AT THE TIME OF SEEDING, THE APPLICATION RATES SHOULD NOT THE FOLLOWING: NITROGEN, 100 POUNDS PER ACRE TOTAL OF SOLUBLE NITROGEN; P2 05 (PHOSPH
LING OIL IS PLACED OVER PREPARED SUBSOIL PRIOR TO ESTABLISHMENT OF PERMANENT VEGETATION. THE OSE IS TO PROVIDE A SUITABLE SOIL MEDIUM FOR VEGETATIVE GROWTH. SOILS OF CONCERN HAVE LOW	200 POUNDS PER ACRE; K20 (POTASSIUM), 200 POUNDS PER ACRE. II. LIME: USE ONLY GROUND AGRICULTURAL LIMESTONE (UP TO 3 TONS PER ACRE MAY BE APPLIED HYDROSEEDING). NORMALLY, NOT MORE THAN 2 TONS ARE APPLIED BY HYDROSEEDING & AT ANY (TIME, DO NOT USE BURNT OR HYDRATED LIME WHEN HYDROSEEDING.
TURE CONTENT, LOW NUTRIENT LEVELS, LOW PH, MATERIALS TOXIC TO PLANTS, AND/OR UNACCEPTABLE GRADATION. COL SALVAGED FROM AN EXISTING SITE MAY BE USED PROVIDED IT MEETS THE STANDARDS AS SET	TIME. DO NOT USE BURNT OR HYDRATED LIME WHEN HYDROSEEDING. III. MIX SEED AND FERTILIZER ON SITE AND SEED IMMEDIATELY AND WITHOUT INTERRUPTION. IV. WHEN HYDROSEEDING DO NOT INCORPORATE SEED INTO THE SOIL.
IN THESE SPECIFICATIONS. TYPICALLY, THE DEPTH OF TOPSOIL TO BE SALVAGED FOR A GIVEN SOIL CAN BE FOUND IN THE REPRESENTATIVE SOIL PROFILE SECTION IN THE SOIL SURVEY PUBLISHED BY -NRCS.	<u>B. MULCHING</u> 1. MULCH MATERIALS (IN ORDER OF PREFERENCE) a. STRAW CONSISTING OF THOROUGHLY THRESHED WHEAT, RYE, OAT, OR BARLEY AND REASONABLY BF
OILING IS LIMITED TO AREAS HAVING 2:1 OR FLATTER SLOPES WHERE: TEXTURE OF THE EXPOSED SUBSOIL/PARENT MATERIAL IS NOT ADEQUATE TO PRODUCE VEGETATIVE TH.	COLOR. STRAW IS TO BE FREE OF NOXIOUS WEED SEEDS AS SPECIFIED IN THE MARYLAND SEED LA MUSTY, MOLDY, CAKED, DECAYED, OR EXCESSIVELY DUSTY. NOTE: USE ONLY STERILE STRAW MULCH AREAS WHERE ONE SPECIES OF GRASS IS DESIRED.
IT. SOIL MATERIAL IS SO SHALLOW THAT THE ROOTING ZONE IS NOT DEEP ENOUGH TO SUPPORT PLANTS JRNISH CONTINUING SUPPLIES OF MOISTURE AND PLANT NUTRIENTS. DRIGINAL SOIL TO BE VEGETATED CONTAINS MATERIAL TOXIC TO PLANT GROWTH.	b. WOOD CELLULOSE FIBER MULCH (WCFM) CONSISTING OF SPECIALLY PREPARED WOOD CELLULOSE PROCESSED INTO A UNIFORM FIBROUS PHYSICAL STATE. I. WCFM IS TO BE DYED GREEN OR CONTAIN A GREEN DYE IN THE PACKAGE THAT WILL PROVIDE AND A MARKED AND A
OIL IS SO ACIDIC THAT TREATMENT WITH LIMESTONE IS NOT FEASIBLE. HAVING SLOPES STEEPER THAN 2:1 REQUIRE SPECIAL CONSIDERATION AND DESIGN.	APPROPRIATE COLOR TO FACILITATE VISUAL INSPECTION OF THE UNIFORMLY SPREAD SLURRY. II. WCFM, INCLUDING DYE, MUST CONTAIN NO GERMINATION OR GROWTH INHIBITING FACTORS. III. WCFM MATERIALS ARE TO BE MANUFACTURED AND PROCESSED IN SUCH A MANNER THAT THE W
OIL SPECIFICATIONS: SOIL TO BE USED AS TOPSOIL MUST MEET THE FOLLOWING CRITERIA: OIL MUST BE A LOAM, SANDY LOAM, CLAY LOAM, SILT LOAM, SANDY CLAY LOAM, OR LOAMY SAND. IR SOILS MAY BE USED IF RECOMMENDED BY AN AGRONOMIST OR SOIL SCIENTIST AND APPROVED BY	CELLULOSE FIBER MULCH WILL REMAIN IN UNIFORM SUSPENSION IN WATER UNDER AGITATION AND BLEND WITH SEED, FERTILIZER AND OTHER ADDITIVES TO FORM A HOMOGENEOUS SLURRY. THE MU MATERIAL MUST FORM A BLOTTER-LIKE GROUND COVER, ON APPLICATION, HAVING MOISTURE ABS
PPROPRIATE APPROVAL AUTHORITY. TOPSOIL MUST NOT BE A MIXTURE OF CONTRASTING TEXTURED WLS AND MUST CONTAIN LESS THAN 5 PERCENT BY VOLUME OF CINDERS, STONES, SLAG, COARSE IENTS, EL, STICKS, ROOTS, TRASH, OR OTHER MATERIALS LARGER THAN 1½ INCHES IN DIAMETER.	AND PERCOLATION PROPERTIES AND MUST COVER AND HOLD GRASS SEED IN CONTACT WITH THE WITHOUT INHIBITING THE GROWTH OF THE GRASS SEEDLINGS. IV. WCFM MATERIAL MUST NOT CONTAIN ELEMENTS OR COMPOUNDS AT CONCENTRATION LEVELS THA BE PHYTO-TOXIC.
DIL MUST BE FREE OF NOXIOUS PLANTS OR PLANT PARTS SUCH AS BERMUDA GRASS, QUACK S, JOHNSON GRASS, NUT SEDGE, POISON IVY, THISTLE, OR OTHERS AS SPECIFIED. JIL SUBSTITUTES OR AMENDMENTS, AS RECOMMENDED BY A QUALIFIED AGRONOMIST OR SOIL	V. WCFM MUST CONFORM TO THE FOLLOWING PHYSICAL REQUIREMENTS: FIBER LENGTH OF APPROXIMATELY 10 MILLIMETERS, DIAMETER APPROXIMATELY 1 MILLIMETER, PH RANGE OF 4.0 TO ASH CONTENT OF 1.6 PERCENT MAXIMUM AND WATER HOLDING CAPACITY OF 90 PERCENT MINIMU
ITIST AND APPROVED BY THE APPROPRIATE APPROVAL AUTHORITY, MAY BE USED IN LIEU OF NATURAL. OIL. DIL APPLICATION	2. APPLICATION a. APPLY MULCH TO ALL SEEDED AREAS IMMEDIATELY AFTER SEEDING.
IN AND SEDIMENT CONTROL PRACTICES MUST BE MAINTAINED WHEN APPLYING TOPSOIL. NMLY DISTRIBUTE TOPSOIL IN A 5 TO 8 INCH LAYER AND LIGHTLY COMPACT TO A MINIMUM NESS OF 4 INCHES. SPREADING IS TO BE PERFORMED IN SUCH A MANNER THAT SODDING OR	b. WHEN STRAW MULCH IS USED, SPREAD IT OVER ALL SEEDED AREAS AT THE RATE OF 2 TONS PE UNIFORM LOOSE DEPTH OF 1 TO 2 INCHES. APPLY MULCH TO ACHIEVE A UNIFORM DISTRIBUTION SO THAT THE SOIL SURFACE IS NOT EXPOSED. WHEN USING A MULCH ANCHORING TOOL, INCREAS
NG CAN PROCEED WITH A MINIMUM OF ADDITIONAL SOIL PREPARATION AND TILLAGE. ANY FULARITIES IN THE SURFACE RESULTING FROM TOPSOILING OR OTHER OPERATIONS MUST BE ECTED IN ORDER TO PREVENT THE FORMATION OF DEPRESSIONS OR WATER POCKETS.	APPLICATION RATE TO 2.5 TONS PER ACRE. c. WOOD CELLULOSE FIBER USED AS MULCH MUST BE APPLIED AT A NET DRY WEIGHT OF 1500 POU ACRE. MIX THE WOOD CELLULOSE FIBER WITH WATER TO ATTAIN A MIXTURE WITH A MAXIMUM OF
IL MUST NOT BE PLACED IF THE TOPSOIL OR SUBSOIL IS IN A FROZEN OR MUDDY CONDITION, WHEN UBSOIL IS EXCESSIVELY WET OR IN A CONDITION THAT MAY OTHERWISE BE DETRIMENTAL TO PROPER NG AND SEEDBED PREPARATION.	OF WOOD CELLULOSE FIBER PER 100 GALLONS OF WATER. 3. ANCHORING 9. PERFORM MULCH ANCHORING IMMEDIATELY FOLLOWING APPLICATION OF MULCH TO MINIMIZE LOSS
ENDMENTS (FERTILIZER AND LIME SPECIFICATIONS) ESTS MUST BE PERFORMED TO DETERMINE THE EXACT RATIOS AND APPLICATION RATES FOR BOTH IND FERTILIZER ON SITES HAVING DISTURBED AREAS OF 5 ACRES OR MORE. SOIL ANALYSIS MAY BE	OR WATER. THIS MAY BE DONE BY ONE OF THE FOLLOWING METHODS (LISTED BY PREFERENCE), UPON THE SIZE OF THE AREA AND EROSION HAZARD: I. A MULCH ANCHORING TOOL IS A TRACTOR DRAWN IMPLEMENT DESIGNED TO PUNCH AND ANCHOR
RMED BY A RECOGNIZED PRIVATE OR COMMERCIAL LABORATORY. SOIL SAMPLES TAKEN FOR EERING PURPOSES MAY ALSO BE USED FOR CHEMICAL ANALYSES. IZERS MUST BE UNIFORM IN COMPOSITION, FREE FLOWING AND SUITABLE FOR ACCURATE APPLICATION	INTO THE SOIL SURFACE A MINIMUM OF 2 INCHES. THIS PRACTICE IS MOST EFFECTIVE ON LARGE BUT IS LIMITED TO FLATTER SLOPES WHERE EQUIPMENT CAN OPERATE SAFELY. IF USED ON SLOP THIS PRACTICE SHOULD FOLLOW THE CONTOUR.
PROPRIATE EQUIPMENT. MANURE MAY BE SUBSTITUTED FOR FERTILIZER WITH PRIOR APPROVAL FROM THE PRIATE APPROVAL AUTHORITY. FERTILIZERS MUST ALL BE DELIVERED TO THE SITE FULLY LABELED RDING TO THE APPLICABLE LAWS AND MUST BEAR THE NAME, TRADE NAME OR TRADEMARK AND	 WOOD CELLULOSE FIBER MAY BE USED FOR ANCHORING STRAW. APPLY THE FIBER BINDER AT A WEIGHT OF 750 POUNDS PER ACRE. MIX THE WOOD CELLULOSE FIBER WITH WATER AT A MAXIMU 50 POUNDS OF WOOD CELLULOSE FIBER PER 100 GALLONS OF WATER. SYNTHETIC BINDERS SUCH AS ACRYLIC DLR (AGRO-TACK), DCA-70, PETROSET, TERRA TAX II, TI
RANTY OF THE PRODUCER. MATERIALS MUST BE GROUND LIMESTONE (HYDRATED OR BURNT LIME MAY BE SUBSTITUTED EXCEPT N HYDROSEEDING) WHICH CONTAINS AT LEAST 50 PERCENT TOTAL OXIDES (CALCIUM OXIDE PLUS	TACK AR OR OTHER APPROVED EQUAL MAY BE USED. FOLLOW APPLICATION RATES AS SPECIFIED MANUFACTURER. APPLICATION OF LIQUID BINDERS NEEDS TO BE HEAVIER AT THE EDGES WHERE CATCHES MULCH. SUCH AS IN VALLEYS AND ON CRESTS OF BANKS.
NESIUM OXIDE). LIMESTONE MUST BE GROUND TO SUCH FINENESS THAT AT LEAST 50 PERCENT WILL S THROUGH A #100 MESH SIEVE AND 98 TO 100 PERCENT WILL PASS THROUGH A #20 MESH SIEVE.	USE OF ASPHALT BINDERS IS STRICTLY PROHIBITED. IV. LIGHTWEIGHT PLASTIC NETTING MAY BE STAPLED OVER THE MULCH ACCORDING TO MANUFACTURE RECOMMENDATIONS. NETTING IS USUALLY AVAILABLE IN ROLLS 4 TO 15 FEET WDE AND 300 TO
E AND FERTILIZER ARE TO BE EVENLY DISTRIBUTED AND INCORPORATED INTO THE TOP 3 TO 5 INCHES OF BY DISKING OR OTHER SUITABLE MEANS. THE SUBSOIL IS EITHER HIGHLY ACIDIC OR COMPOSED OF HEAVY CLAYS, SPREAD GROUND LIMESTONE	FEET LONG.
THE RATE OF 4 TO 8 TONS/ACRE (200-400 POUNDS PER 1,000 SQUARE FEET) PRIOR TO THE CEMENT OF TOPSOIL.	STANDARD SEDIMENT CONTROL NOTES 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 START OF ANY
<u>OWNER/DEVELOPER</u> JAMES & KATHLEEN CHEAK	CONSTRUCTION, (313–1855). 2) ALL VEGETATIVE AND STRUCTURAL PRACTICES ARE TO BE INSTALLED ACCORDING TO THE PROVISIONS THIS PLAN AND ARE TO BE IN CONFORMANCE WITH THE MOST CURRENT "MARYLAND STANDARDS AND
10695 HARDING ROAD LAUREL, MARYLAND 20723	SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL", AND REVISIONS THERETO. 3) FOLLOWING INITIAL SOIL DISTURBANCE OR REDISTURBANCE, PERMANENT OR TEMPORARY STABILIZATION SHALL BE COMPLETED WITHIN:
410-997-0296 DEVELOPERS_CERTIFICATE	 A) 3 CALENDAR DAYS FOR ALL PERIMETER SEDIMENT CONTROL STRUCTURES, DIKES, PERIMETER SLIAND ALL SLOPES GREATER THAN 3:1, B) 7 DAYS AS TO ALL OTHER DISTURBED OR GRADED AREAS ON THE PROJECT SITE. A) ALL DISTURDED AREAS MUST BE STABILIZED WITHIN THE THE DEDIOD SPECIFIED ABOVE IN ACCORDANCE.
THAT ALL DEVELOPMENT AND CONSTRUCTION WILL BE DONE IG TO THIS PLAN, AND THAT ANY RESPONSIBLE PERSONNEL IN THE CONSTRUCTION PROJECT WILL HAVE A CERTIFICATE OF	4) ALL DISTURBED AREAS MUST BE STABILIZED WITHIN THE TIME PERIOD SPECIFIED ABOVE IN ACCORDAN WITH THE 2011 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTR FOR PERMANENT SEEDING (SEC.B-4-5), TEMPORARY SEEDING (SEC. B-4-4) AND MULCHING (SDC.B- TEMPORARY STABILIZATION WITH MULCH ALONE CAN ONLY BE DONE WHEN RECOMMENDED
ICE AT A DEPARTMENT OF THE ENVIRONMENT APPROVED PROGRAM FOR THE CONTROL OF SEDIMENT AND EROSION BEFORE THE PROJECT. I ALSO AUTHORIZE PERIODIC ON-SITE INSPECTION ATURAL RESOURCE CONSERVATION SERVICE.	SEEDING DATES DO NOT ALLOW FOR PROPER GERMINATION AND ESTABLISHMENT OF GRASSES. 5) 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 HOWAF
m 1 Ment la. 2-11-14	COUNTY SEDIMENT CONTROL INSPECTOR. 6) SITE ANALYSIS: TOTAL AREA OF SITE:
URE OF DEVELOPER DATE	AREA DISTURBED: 0.50 ACRES AREA TO BE ROOFED OR PAVED: 0.10 ACRES AREA TO BE VEGITATIVELY STABILIZED: 0.40 ACRES TOTAL CUT: 500 CU. YDS.
D NAME OF DEVELOPER ENGINEER'S CERTIFICATE	TOTAL FILL:
EINGINEER S CERTIFICATE Y THAT THIS PLAN FOR EROSION AND SEDIMENT CONTROL REPRESENTS TICAL AND WORKABLE PLAN BASED ON MY PERSONAL KNOWEDGE OF E CONDITIONS AND THAT IT WAS PREPARED IN ACCORDANCE WITH THE	OWN QUANTITIES MEASUREMENTS. 7) ANY SEDIMENT CONTROL PRACTICE WHICH IS DISTURBED BY GRADING ACTIVITY FOR PLACEMENT OF UTILITIES MUST BE REPAIRED ON THE SAME DAY OF DISTURBANCE.
MENTS OF THE NATURAL RESOURCE CONSERVATION SERVICE.	 8) ADDITIONAL SEDIMENT CONTROL MUST BE PROVIDED, IF DEEMED NECESSARY BY THE HOWARD COUNTY SEDIMENT CONTROL INSPECTOR. 9) ON ALL SITES WITH DISTURBED AREAS IN EXCESS OF 2 ACRES, APPROVAL OF THE INSPECTION AGEN(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 APPROVA BY THE INSPECTION AGENCY IS MADE.
COB HIKMAT P.E.	 TRENCHES FOR THE CONSTRUCTION OF UTILITIES IS LIMITED TO THREE PIPE LENGTHS OR THAT WHICH CHALL BE BACK FILLED AND STABILIZED BY THE END OF EACH WORKING DAY, WHICHEVER IS SHORTED ANY CHANGES OR REVISIONS TO THE SEQUENCE OF CONSTRUCTION MUST BE REVIEWED AND APPROVE
DEVELOPMENT PLAN IS APPROVED FOR SOIL ION AND SEDIMENT CONTROL BY THE HOWARD	BY THE PLAN APPROVAL AUTHORITY PRIOR TO PROCESSING WITH CONSTRUCTION. 12) A PROJECT IS TO BE SEQUENCED SO THAT GRADING ACTIVITIES BEGIN ON ONE GRADING UNIT (MAXIMI ACREAGE OF 20 AC. PER GRADING UNIT) AT A TIME. WORK MAY PROCEED TO A SUBSEQUENT GRADI UNIT WHEN AT LEAST 50 PERCENT OF THE DISTURBED AREA IN THE PRECEDING GRADING UNIT HAS E
TON AND SEDIMENT CONTROL BY THE HOWARD	STABILIZED AND APPROVED BY THE ENFORCEMENT AUTHORITY. UNLESS OTHERWISE SPECIFIED AND APPROVED BY THE APPROVAL AUTHORITIES, NO MORE THAN 30 ACRES CUMULATIVELY MAY BE DISTUL AT A GIVEN TIME.
ARD SOIL CONSERVATION DISTRICT	
VED: DEPARTMENT OF PLANNING AND ZONING	
DEVELOPMENT ENGINEERING DIVISION ALL DATE	HEREBY CERTIFY THAT THESE DOCUMENTS WERE REPARED OR APPROVED BY ME AND THAT I AM DULY LICENSED PROFESSIONAL ENGINEER UNDER IE LAWS OF THE STATE OF MARYLAND, LICENSE
	D. 17942, EXP. DATE 9/03/14.
anche hiergele s/1/14 BATE	R JACOB HIKMAT P.E. DATE

CIFICATIONS FOR **MULCHING**

OPES, AND ANY DISTURBED AREA NOT UNDER ACTIVE GRADING.

HE MARYLAND STATE SEED LAW. ALL SEED MUST BE SUBJECT TORY. ALL SEED USED MUST HAVE BEEN TESTED WITHIN THE 6 SOWING SUCH MATERIAL ON ANY PROJECT. REFER TO TABLE GS MUST BE AVAILABLE UPON REQUEST TO THE INSPECTOR TO

ALL AND SPRING SEEDING DATES ONLY IF THE GROUND IS ST BE APPLIED WHEN THE GROUND THAWS. IME SEED IN THE SEED MIXTURES MUST BE A PURE CULTURE CALLY FOR THE SPECIES, INOCULANTS MUST NOT BE USED INER. ADD FRESH INOCULANTS AS DIRECTED ON THE PACKAGE. HYDROSEEDING. NOTE: IT IS VERY IMPORTANT TO KEEP EMPERATURES ABOVE 75 TO 80 DEGREES FAHRENHEIT CAN SS EFFECTIVE. ICH HAS BEEN TREATED WITH SOIL STERILANTS OR

EDERS THAT APPLY AND COVER SEED WITH SOIL Y THE SEED IN SUCH A FASHION AS TO PROVIDE AT LEAST E FIRM AFTER PLANTING AR TO EACH OTHER. APPLY HALF THE SEEDING RATE IN

DROSEEDER (SLURRY INCLUDES SEED AND FERTILIZER). OF SEEDING, THE APPLICATION RATES SHOULD NOT EXCEED ACRE TOTAL OF SOLUBLE NITROGEN; P2 05 (PHOSPHOROUS), 00 POUNDS PER ACRE.

HEAT, RYE, OAT, OR BARLEY AND REASONABLY BRIGHT IN SEEDS AS SPECIFIED IN THE MARYLAND SEED LAW AND NOT Y DUSTY. NOTE: USE ONLY STERILE STRAW MULCH IN

ING OF SPECIALLY PREPARED WOOD CELLULOSE REEN DYE IN THE PACKAGE THAT WILL PROVIDE AN SPECTION OF THE UNIFORMLY SPREAD SLURRY. MINATION OR GROWTH INHIBITING FACTORS. AND PROCESSED IN SUCH A MANNER THAT THE WOOD RM SUSPENSION IN WATER UNDER AGITATION AND WILL ITIVES TO FORM A HOMOGENEOUS SLURRY. THE MULCH D COVER, ON APPLICATION, HAVING MOISTURE ABSORPTION

TELY AFTER SEEDING. ALL SEEDED AREAS AT THE RATE OF 2 TONS PER ACRE TO A PLY MULCH TO ACHIEVE A UNIFORM DISTRIBUTION AND DEPTH WHEN USING A MULCH ANCHORING TOOL, INCREASE THE BE APPLIED AT A NET DRY WEIGHT OF 1500 POUNDS PER ATER TO ATTAIN A MIXTURE WITH A MAXIMUM OF 50 POUNDS OF WATER.

LOWING APPLICATION OF MULCH TO MINIMIZE LOSS BY WIND E FOLLOWING METHODS (LISTED BY PREFERENCE), DEPENDING AZARD: WN IMPLEMENT DESIGNED TO PUNCH AND ANCHOR MULCH HES. THIS PRACTICE IS MOST EFFECTIVE ON LARGE AREAS, UIPMENT CAN OPERATE SAFELY. IF USED ON SLOPING LAND. CHORING STRAW. APPLY THE FIBER BINDER AT A NET DRY

NOOD CELLULOSE FIBER WITH WATER AT A MAXIMUM OF 00 GALLONS OF WATER. SRO-TACK), DCA-70, PETROSET, TERRA TAX II, TERRA USED. FOLLOW APPLICATION RATES AS SPECIFIED BY THE RS NEEDS TO BE HEAVIER AT THE EDGES WHERE WIND N CRESTS OF BANKS.

STANDARDS AND SPECIFICATIONS FOR TEMPORARY STABILIZATION

DEFINITION TO STABILIZE DISTURBED SOIL WITH PERMANENT VEGETATION.

PURPOSE TO USE LONG-LIVED PERENIAL GRASSES AND LEGUMES TO ESTABLISCH PERMANENT GROUND COVER OF DISTURBAD

CONDITIONS WHERE PRACTICE APPLIES EXPOSED SOILS WHERE GROUND COVER IS NEEDED FOR 6 MONTHS OR MORE.

CRITERIA A. SEED MIXTURES

- 1. GENERAL USE A. SELECT ONE OR MORE OF THE SPIECES OF MIXTURES LISTED IN TABLE B.3 FOR THE APPROPRIATE PLANT HARDINESS ZONE (FROM FIGURE B.3) AND BASED IN THE SITE CONDITION OR PURPOSE FOUND ON TABLE B.2. ENTER SELECTED MIXTURE(S), APPLICATION RATES, AND SEEDING DATES IN THE PERMANENT SEEDING SUMMARY ADDITIONAL PLANTING SPECIFICATIONS FOR EXCEPTIONAL SITES SUCH AS XHORELINES, STREAM BANKS, OR
 - DINES OR FOR SPECIAL PURPOSES SUCH AS WILDLIFE OR AESTHETIC TREATMENT MAY BE FOUND IN USDA-NRCS TECHNICAL FIELD GUIDE, SECTION 342-CRITICAL AREA PLANTING. FOR SITES HAVING DISTURBAD AREA OVER 5 ACRES, USE AND SHOW RATES RECOMMENDED BY THE SOIL
- TESTING AGENCY. D. FOR AREAS RECEIVING LOW MAINTENANCE, APPLY UREA FROM FERTILIZED (40-0-01) AT 3 1/2 POUNDS PER 1000 S.F. (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 DESIRE INCLUDE LAWNS, PARKS, PLAYGROUNDS, AND COMMERCIAL SITES WHICH WILL RECEIVE A MEDIUM TO HIGH LEVEL OF MAINTENANCE.
- SELECT ONE OR MORE OF THE SPECIES OF MIXTURES LISTED BELOW BASED ON THE SITE CONDITIONS OR PURPOSE. ENTER SELECTED MIXTURE(S), APPLOCATION RATES, AND SEEDING DATES IN THE PERMANENT SEEDING SUMMARY.
- KENTUCKY BLUEGRASS: FULL SUN MIXTURE: FOR USE IN AREAS THAT RECEIVE INTENSIVE MANAGEMENT. IRRIGATION REQUIRED IN THE AREAS OF CENTRAL MARYLAND AND EASRERN SHORE. RECOMMENDED CERTIFIED KENTUCKY BLUEGRASS SEEDING RETA: 1.5 TO 2.0 POUNDS PER 1000 S.F. CHOOSE A MINIMUM OF THREE KENTUCKY BLUEGRASS CULTIVARS WITH EACH RANGING FROM 10 TO 35 PERCENT OF THE TOTAL MIXTURE BY WEIGHT.
- KENTUCKY BLUEGRASS/PERENIAL RYE: FULL SUN MIXTURE: FOR USE IN FULL SUN AREAS WHERE RAPID ESTABLISHMENT'IS NECESSARY ABD WHEN TURF WILL RECEIVE MEDIUM TO INTENSUVE MANAGEMENT. CERTIFIED PERENIAL RYEGRASS CULTIVARS/CERTIFIED KENTUCKY BLUEGRASS SEEDINGRATE: 2 POUNDS MIXTURE PER 1000 S.F. SHOOSE A MINIMUM OF THREE KENTUCKYBLUEGRASS CULTIVARS EITH EACH RANGING FROM 10 TO 35 PERCENT OF THE TOTAL
- MIXTURE BY WEIGHT. III. TALL FESCUE/KENTUCKY BLUEGRASS: FULL MIXTURE: FOR USE IN DROUGHT AREAS AND/OR FOR AREAS RECEIVING LOW TO MEDIUM MANAGEENT IN FULL SUN TO MEDIUM SHADE. RECOMMENDED MIXTURE INCLUDES: CERTIFIED TALL FESCUE CULTIVARS 65 TO 100 PERCENT, CERTIFIED KENTUCKY BLUEGRASS CULTIVARS 0 TO 5 PERCENT. SEEDING RATE: 5 TO 8 PERCENT PER 1000 S.F. ONE OR MORE CULTIVARS MAY BE BLENDED.
- KENTUCKY BLUEGRASS/FINE FESCUE: SHADE MIXTURE: FOR USE IN AREAS WITH SHADE IN BLUEGRASS LAWNS. FOR ESTABLISHMENT IN HIGH QUALITY, INTENSIVELY MANAGED TIRF AREA. MIXTURE INCLUDES; CERTIFIED KENTUCKY BLUEGRASS CULTIVARS 30 TO 40 PERCANT AND CERTIFIES FINE FESCUE AND 60 TO 70 PERCENT. SEEDING RATES 1 1/2 TO 3 POUNDS PER 1000 S.F. IDEAL TIMES OF SEEDING FOR TURF GRASS MIXTURE
- WESTERN MD: MARCH 15 TO JUNE 1, AUGUST 1 TO OCTOBER 1 (HARDINESS ZONES: 5B,6A) CENTRAL 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
- ZONE: 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 STONE AND DEBRIS OVER 1.5 INCHES IN DIAMETER. THE RESULTING SEEDBED MUST BE IN SUCH CONDITION THAT FUTURE MOWING OF
- GRASS WILL POSE NO DIFFICULTY. E. IF SOIL MOISTURE IS DEFICIENT, SUPPLY NEW SEEDINGS WITH ADEQUATE WATER FOR PLANT GROWTH 0.5 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 SEASON, OR ON ADVERSE SITES.

PERMANENT SEEDING SUMMARY								
		ZONE (FROM F TURE (FROM T	IGURE B.3): 65 ABLE B.3): 8	<i>.</i> #	F	ERTILIZER RATE (10-20-20)		
NO.	SPECIES	APPLICATION RATE (LB/AC)	SEEDING DATES	SEEDING DEPTHS	N	P ₂ O ₅	K2O	ume rate
1	TALL FESCUE	100	MARCH 1-MAY 15 AUG 15-OCT 15	1/4"-1/2"	45 LBS. PER ACRE (1 LB./1000 SF)	90 LBS. PER ACRE (2 LB./1000 SF)	90 LBS. PER ACRE (2 LB./1000 SF)	2 TONS / ACRE (90 LBS / 1000 SF)

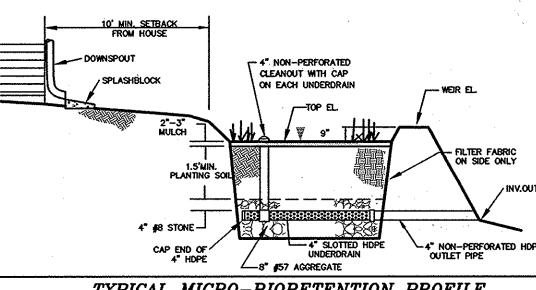
CONTROL MAY BE USED.

TEMP	ORAR	Y SI	EEDIN	G FOR SITE ST	TABILIZATION		
PLANT SPECIES	SEEDING RATE		SEEDING	RECOMMENDED SEEDING DATED BY PLANT HARDINESS ZONE			
	LB/AC	LB/ 1000SF	(INCHES)	5B AND 6A	68	7A AND 7B	
COOL SEASON GRASSES		••••					
ANNUAL RYEGRASS (LOLIUM PERENNE SSP. MULTIFLORUM)	40	1.0	0.5	MAR 15 TO MAY 31; AUG 1 TO SEP 30	MAR 1 TO MAY 15; AUG 1 TO OCT 15	FEB.15 TO APR 30; AUG 15 TO NOV 30	
BARLEY (HORDEUM VULGARE)	96	2.2	0.5	MAR 15 TO MAY 31; AUG 1 TO SEP 30	MAR 1 TO MAY 15; AUG 1 TO OCT 15	FEB.15 TO APR 30; AUG 15 TO NOV 30	
OATS (AVENA SATIVA)	72	1.7	0.5	MAR 15 TO MAY 31; AUG 1 TO SEP 30	MAR 1 TO MAY 15; AUG 1 TO OCT 15	FEB.15 TO APR 30; AUG 15 TO NOV 30	
WHEAT (TRITICUM AESTIVUM)	120	2.8	0.5	MAR 15 TO MAY 31; AUG 1 TO SEP 30	MAR 1 TO MAY 15; AUG 1 TO OCT 15	FEB.15 TO APR 30; AUG 15 TO NOV 30	
CEREAL RYE (SECALE ITALICA)	112	2.8	0.5	MAR 15 TO MAY 31; AUG 1 TO OCT 31	MAR 1 TO MAY 15; AUG 1 TO OCT 15	FEB.15 TO APR 30; AUG 15 TO DEC 15	
warm season grasses	•••••••••••••••••••••••••••••••••••••••		·		······		
FOXTAIL MILLET (SETARIA ITALICA)	30	0.7	0.5	JUN 1 TO JUL 31	MAY 16 TO JUL 31	MAY 1 TO AUG 14	
PEARL MILLET (PENNISETUM GLAUCUM)	20	0.5	0.5	JUN 1 TO JUL 31	MAY 16 TO JUL 31	MAY 1 TO AUG 14	

SEQUENCE OF CONSTRUCTION

1. OBTAIN GRADING PERMIT (1 DAY)

- 2. CONSTRUCT STABILIZED CONSTRUCTION ENTRANCE AT LOCATION SHOWN (1 DAY)
- 3. PERFORM CLEARING AND GRUBBING NECESSARY FOR THE INSTALLATION OF DIVERSION FENCE AND SUPER SILT FENCE (2 DAYS)
- 4. PERFORM CLEARING AND GRUBBING WITHIN INSTALLED PERIMETER CONTROLS
- 5. GRADE SITE PER PLAN (5 DAYS)
- 6. CONSTRUCT WATER AND SEWER HOUSE CONNECTIONS (5 DAYS) 7. CONSTRUCT HOUSE (90 - 180 DAYS)
- 8. COMPLETE FINE GRADING OF SITE TO GRADES INDICATED (2 DAYS)
- 9. SEED AND MULCH ALL REMAINING DISTURBED AREAS (1 DAY PER)
- 10. WHEN ALL CONTRIBUTING DRAINAGE AREAS TO SEDIMENT CONTROL DEV
- STABILIZED, AND WITH PERMISSION OF SEDIMENT CONTROL INSPECTOR, CONTROL DEVICES AND STABILIZE REMAINING DISTURBED AREAS (1 DAY)



TYPICAL MICRO-BIORETENTION PROFILE

 No.
 SIZE WEIR
 SIZE TOP
 TOP EL.
 WEIR EL.
 INV. IN
 INV. OUT

 1
 422
 S.F.
 202 S.F.
 395.7
 396.7
 3942
 393.0
 2 456 S.F. 220 S.F. 398.2 399.2 395.7 395.5 PLANT LIST

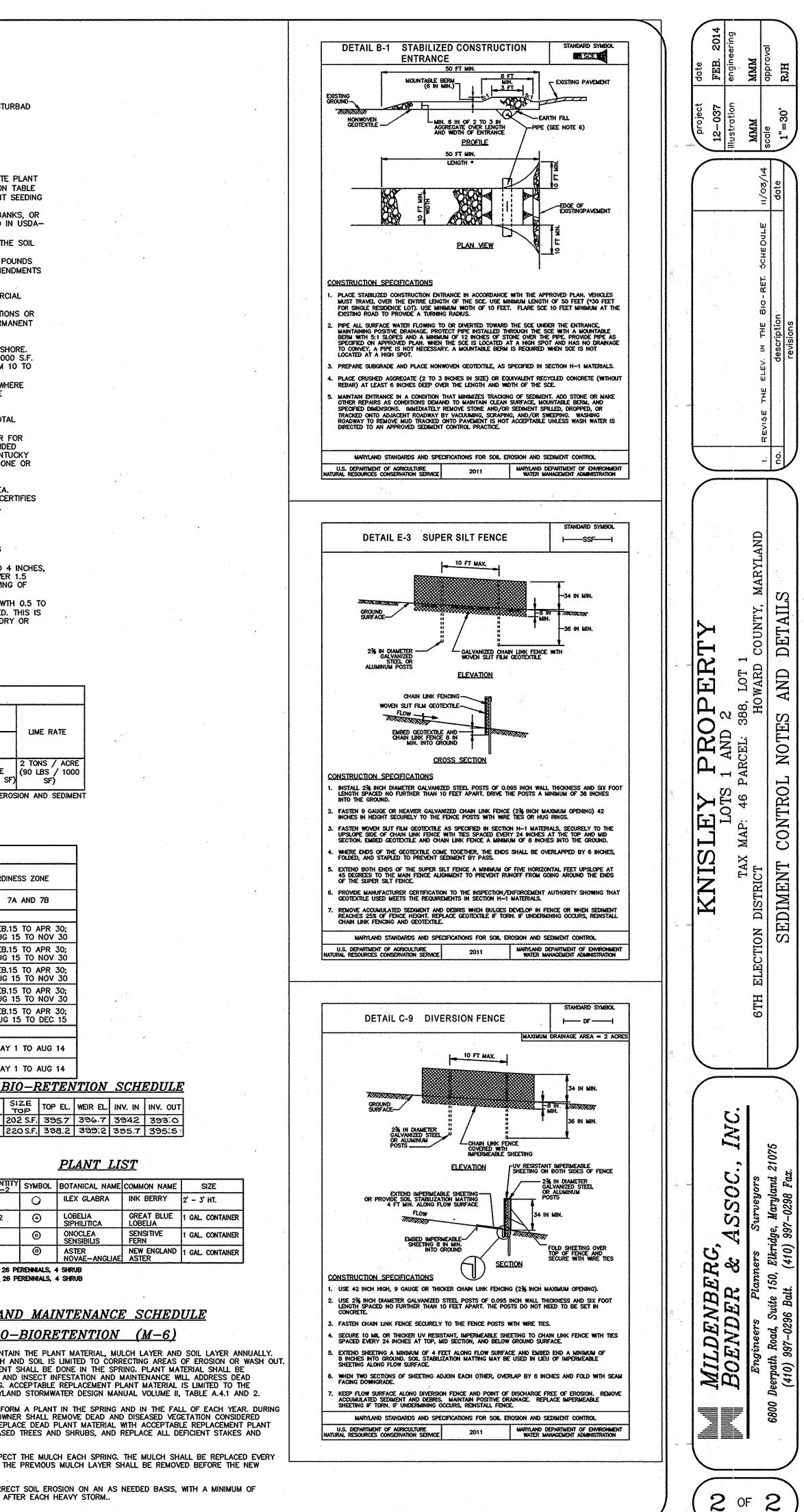
	QUANTITY BR-1	QUANTITY BR-2	SYMBOL	BOTANICAL I			
	4	4	0	ILEX GLABR			
1	12	12	۲	LOBELIA SIPHILITICA			
	8	8	0	ONOCLEA SENSIBILIS			
	6	6	0	ASTER NOVAE-AN			
<u>TOTAL (BR-1):</u> 26 PERENNIALS, 4 SHRUB <u>TOTAL (BR-2):</u> 26 PERENNIALS, 4 SHRUB							

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

- THE OWNER SHALL MAINTAIN THE PLANT MATERIAL, MULCH LAYER AND SOIL LAYER ANNUALLY. MAINTENANCE OF MULCH AND SOIL IS LIMITED TO CORRECTING AREAS OF EROSION OR WASH OUT. ANY MULCH REPLACEMENT SHALL BE DONE IN THE SPRING. PLANT MATERIAL SHALL BE CHECKED FOR DISEASE AND INSECT INFESTATION AND MAINTENANCE WILL ADDRESS DEAD MATERIAL AND PRUNING. ACCEPTABLE REPLACEMENT PLANT MATERIAL IS LIMITED TO THE FOLLOWING: 2000 MARYLAND STORMWATER DESIGN MANUAL VOLUME II, TABLE A.4.1 AND 2.
- THE OWNER SHALL 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
- THE OWNER SHALL INSPECT THE MULCH EACH SPRING. THE MULCH SHALL BE REPLACED EVERY TWO TO THREE YEARS. THE PREVIOUS MULCH LAYER SHALL BE REMOVED BEFORE THE NEW LAYER IS APPLIED.
- THE OWNER SHALL CORRECT SOIL EROSION ON AN AS NEEDED BASIS, WITH A MINIMUM OF ONCE PER MONTH AND AFTER EACH HEAVY STORM ...

		QUANTITY BR-2	SYMBOL.	8
×	4	4	0	
	12	12	۲	Γ
	8	8	0	
HAVE BEEN Æ SEDIMENT	6	6	0	Γ

	BR-1	BR-2	SYMBOL.	BOTA
· · · ·	4	4	0	ILE>
	12	12	۲	LOE
	8	8	0	ON SEN
EVICES HAVE BEEN , REMOVE SEDIMENT	6	6	0	AST NO



SDP-14-022

NAME COMMON NAME SIZE RA INK BERRY GREAT BLUE 1 GAL CONTAINER LOBELIA SENSITIVE IGLIAE ASTER 1 GAL. CONTAINER