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		ANNA BEL CRO FOR FULLY		date AUG 2012	engineering MMT	approval <b>RJH</b>
	. <sup>1</sup> 1	BELLS CT SILENT SUCH SUCH SUCH SUCH SUCH SUCH SUCH SUCH		project 10-011	illustration MMT	scale 1"=30'
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· .			W		PE, KEV.	·
,		VICINITY MAP ADC MAP: 5052-J-2		2	ANDSCA	description revisions
	1. 2.	<b>ENERAL NOTES:</b> ALL ASPECTS OF THE PROJECT ARE IN CONFORMANCE WITH THE LATEST HOWARD COUNTY STANDARDS. THE SUBJECT PROPERTY IS ZONED R-20 PER THE 02/02/04 COMPREHENSIVE ZONING PLAN AND "COMP LITE ZONING AMENDMENTS EFFECTIVE 7/28/06. SITE ANALYSIS DATA:			· 7	20 Jacober 2004
		TAX MAP : 41, PARCEL: 252 LOT: 106 ELECTION DISTRICT : FIFTH ZONING: R-20 DEED REFERENCE : L. 5299/F.482 <b>Plat# 22296</b> TOTAL TRACT AREA: 0.52 AC.±			- Relo	+ ]
	A	NUMBER OF PROPOSED UNITS : 1 PROPOSED USE: SINGLE FAMILY DETACHED DPZ FILES: F-11-056, ECP-11-001, WP-11-158. ON-SITE TOPOGRAPHY SHOWN HEREON IS BASED ON A FIELD RUN SURVEY		$\geq$		
		CONDUCTED BY MILDENBERG, BOENDER AND ASSOCIATES ON OR ABOUT JUNE 2010.			4	
	5.	HORIZONTAL AND VERTICAL DATUMS ARE RELATED TO THE MARYLAND NAD 83 (HORZ) AND NGVD29 (VERT) AS PROJECTED FROM HOWARD COUNTY CONTROL STATIONS NO. 0057 & 41CA. STA. No. 0057 N 550,835.214 ELEV. 398.924 E 1,347,017.69 STA. No. 41CA N 550,124.864 ELEV. 295.364			COUNTY	
× .		E 1,342,960.88 PUBLIC WATER AND SEWER WILL BE UTILIZED UNDER CONTRACT #S 34-3957 AND 24-4350.			<b>LRD</b>	
	8.	ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE LATEST STANDARDS AND SPECIFICATIONS OF HOWARD COUNTY PLUS MSHA STANDARDS AND SPECIFICATIONS IF APPLICABLE. THE CONTRACTOR SHALL NOTIFY THE DEPARTMENT OF PUBLIC WORKS/CONSTRUCTION INSPECTIONS AT (410) 313-1880 AT LEAST FIVE (5) WORKING DAYS PRIOR TO THE START OF WORK.		106	HOWARD	
4		THE CONTRACTOR SHALL NOTIFY THE FOLLOWING UTILITIES OR AGENCIES AT LEAST FIVE (5) DAYS PRIOR TO ANY EXCAVATION WORK: MISS UTILITY 1-800-257-7777	* * *	LOT	CK 5	AN
		VERIZON TELEPHONE COMPANY HOWARD COUNTY BUREAU OF UTILITIES AT&T CABLE LOCATION DIVISION BALTIMORE GAS & ELECTRIC STATE HIGHWAY ADMINISTRATION HOWARD COUNTY DEPT. OF PUBLIC WORKS/ CONSTRUCTION INSPECTION DIVISION	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	TION 4,	252, BLO(	PMENT PLA
<u>ب</u>		NO CEMETERIES EXIST ON SITE. THERE ARE NO HISTORIC STRUCTURES/FEATURES ON SITE. THIS SITE IS NOT ADJACENT		E E E	ARCEL	Md(
		TO A DESIGNATED SCENIC ROAD. NO STEEP SLOPES EXIST ON SITE. NO WETLANDS EXIST ON SITE PER F-11-056.		× Ω	PAR(	VELO
	14.	NO GRADING, REMOVAL OF VEGETATIVE COVER OR TREES, OR PLACEMENT OF NEW STRUCTURES IS PERMITTED WITHIN THE LIMITS OF THE STREAMS OR THEIR BUFFER. NO CLEARING OF EXISTING VEGETATION IS PERMITTED WITHIN THE LANDSCAPED EDGE FOR WHICH CREDIT IS BEING TAKEN; HOWEVER, LANDSCAPE MAINTENANCE IS AUTHORIZED.		STII	P 41,	DE
	16.			AY H	TAX MAP TRICT	SITE
ANE	17.	DRIVEWAYS SHALL BE PROVIDED PRIOR TO RESIDENTIAL OCCUPANCY TO ENSURE SAFE ACCESS FOR FIRE AND EMERGENCY VEHICLES PER THE FOLLOWING MINIMUM REQUIREMENTS: A) WIDTH - 12 FEET (16 FEET SERVING MORE THAN ONE RESIDENCE).		HOLID	DIS	
······································		<ul> <li>B) SURFACE - 6 INCHES OF COMPACTED CRUSHER RUN BASE WITH TAR AND CHIP COATING.</li> <li>C) GEOMETRY - MAXIMUM 15% GRADE, MAXIMUM 10% GRADE CHANGE AND MINIMUM OF 45-FOOT TURNING RADIUS.</li> <li>C) OTTUDET HERE (OUT FOR (OUT) CONTACT OF CURPORTING)</li> </ul>	Ŧ		ELECTION	
S TRACT		<ul> <li>D) STRUCTURES (CULVERT/BRIDGES) - CAPABLE OF SUPPORTING 25 GROSS TONS (H25 LOADING).</li> <li>E) DRAINAGE ELEMENTS - CAPABLE OF SAFELY PASSING 100-YEAR FLOOD WITH NO MORE THAN 1 FOOT DEPTH OVER DRIVEWAY SURFACE.</li> <li>F) STRUCTURE CLEARANCES - MINIMUM 12 FEET</li> <li>G) MAINTENANCE - SUFFICIENT TO ENSURE ALL WEATHER USE.</li> </ul>			FIFTH E	
	18. 19.	DRIVEWAY ENTRANCE IS PER HOWARD COUNTY STANDARD DETAIL R-6.06. LANDSCAPING FOR LOT 106 IS PROVIDED IN ACCORDANCE WITH SECTION 16.124 OF HOWARD COUNTY CODE AND LANDSCAPE MANUAL. FINANCIAL			Fr	
	] <sub>20.</sub>	SURETY FOR THE REQUIRED LANDSCAPING (A SHADE TREES AND 24 EVERGREEN TREES) IN THE AMOUNT OF \$4,800.00 WILL BE PROVIDED AS PART OF THE BUILDERS GRADING PERMIT APPLICATION. SHOULD ANY TREE DESIGNATED FOR PRESERVATION, FOR WHICH LANDSCAPING CREDIT IS GIVEN, DIE PRIOR TO RELEASE OF BONDS, THE OWNER WILL BE REQUIRED TO REPLACE THE TREE WITH		>		
	21.	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 2 1/2 TO 3 INCHES IN CALIPER AND INSTALLED AS REQUIRED IN THE LANDSCAPE MANUAL. THE OWNER, TENANT, AND/OR THEIR AGENTS SHALL BE RESPONSIBLE FOR MAINTENANCE OF THE REQUIRED LANDSCAPING, INCLUDING BOTH PLANT MATERIALS AND BERMS, FENCES,			ic.	
		AND WALLS. ALL PLANT MATERIALS SHALL BE MAINTAINED IN GOOD GROWING CONDITION, AND WHEN NECESSARY, REPLACED WITH NEW MATERIALS TO ENSURE CONTINUED COMPLIANCE WITH APPLICABLE REGULATIONS. ALL OTHER REQUIRED LANDSCAPING SHALL BE PERMANENTLY MAINTAINED IN GOOD CONDITION, AND WHEN NECESSARY, REPAIRED OR REPLACED.			., IN	1075 Fax.
	22.	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	No. No.		Surveyors	Maryland 21 997-0298 F
		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.	2 2 2	<b>F</b> L		<u>é</u>
e provided Artment To be		STORMWATER MANAGEMENT IS PROVIDED BY THE USE OF MICRO-BIORETENTION FACILITY (M-6) IN ACCORDANCE WITH THE 2007 MARYLAND STORMWATER MANAGEMENT DESIGN MANUAL. STORMWATER MANAGEMENT FACILITY WILL BE PRIVATELY OWNED AND MAINTAINED. DECLARATION OF COVENANT WAS RECORDED WITH THE PLAT AS PART OF F-11-056 FOR THE MAINTENANCE OF THE BIORETENTION FACILITY.		BERG	Planners	e 15, Elkridg It. (4
ENTS VEMENTS.	24.	DURING THE INSTALLATION PROCESS OF PUBLIC WATER AND SEWER, LOT 50 MUST HAVE THE WELL AND SEPTIC PROPERLY ABANDONED/SEALED AND THE HOWARD COUNTY HEALTH DEPARTMENT WILL BE NOTIFIED. DOCUMENTATION OF PROPER ABANDONMENT OF THE SEPTIC SYSTEM WILL BE FORWARDED TO THE HOWARD COUNTY HEALTH DEPARTMENT.		LDENB	NDE.	ad, Suite 0296 Balt.
IE WAIVER		ANY DAMAGE TO THE COUNTY'S RIGHT-OF-WAY SHALL BE CORRECTED AT THE DEVELOPER'S EXPENSE. A WAIVER TO ALLOW GRAVITY SEWER SERVICE TO FIRST FLOOR ONLY WAS APPROVED BY DPW ON MARCH 1, 2011. BASEMENT SEWER SERVICE TO BE PROVIDED BY PRIVATE ON-SITE PUMP.		MILL	BOEND1 Engineers	Deerpath Road, (410) 997-0296
•	۰.	FOREST CONSERVATION OBLIGATIONS IN ACCORDANCE WITH SECTION 16.1200 OF THE HOWARD COUNTY CODE AND FOREST CONSERVATION ACT FOR THIS SUBDIVISION HAS BEEN FULFILLED BY PAYMENT OF A FEE-IN-LIEU OF 0.15 ACRES (6,534 SQ. FT.) OF AFFORESTATION IN THE AMOUNT OF \$4,900.50 TO THE FOREST CONSERVATION FUND UNDER F-11-056.				6800 Deer (41(
	28.	EXISTING WELL AND SEPTIC HAS BEEN ABANDONED UNDER F-11-056.	х. 19 			
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SDP-11-053

HOWARD	SOIL	CONSERVATION	DISTRICT

<u>PERMANENT SEEDING NOTES</u> APPLY TO GRADED OR CLEARED AREAS NOT SUBJECT TO IMMEDIATE FURTHER DISTURBANCE WHERE A PERMANENT LONG-LIVED VEGETATIVE COVER IS NEEDED.

EEDBED PREPARATION: LOOSEN UPPER THREE INCHES OF SOIL BY RAKING , DISKING OR OTHER ACCEPTABLE MEANS BEFORE SEEDING, IF NOT PREVIOUSLY LOOSENED. SOIL AMENDMENTS: IN LIEU OF SOIL TEST RECOMMENDATIONS, USE ONE OF THE FOLLOWING SCHEDULES:

- PREFERRED APPLY 2 TONS PER ACRES DOLOMITIC LIMESTONE (92 LBS/1000 SQ.FT.) AND 600 LBS. PER ACRE 10-10-10 FERTILIZER (14 LBS/1000 SQ.FT.) BEFORE SEEDING. ARROW OR DISK 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.).
- 2) 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 DISK INTO UPPER THREE INCHES OF SOIL.

SEEDING - FOR THE PERIODS MARCH 1 THRU MAY 15, AND AUGUST 1 THRU OCTOBER 15, SEED WITH 60 LBS. PER ACRE 1.4 LBS/1000 SQ.FT.) OF KENTUCKY 31 TALL FESCUE. FOR THE PERIOD MAY 1 THRU JUNE 15, SEED WITH 60 LBS. KENTUCKY 31 TALL FESCUE PER ACRE AND 2 LOBS. PER ACRE (.05 LBS./1000 SQ.FT.) OF WEEPING LOVEGRASS. DURING THE PERIOD OF OCTOBER 16 THRU 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./ACRE KENTUCKY 31 TALL FESCUE AND MULCH WITH 2 TONE/ACRE 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, 348 GALLONS PER ACRE (8 GAL/1000 SQ.FT.) FOR ANCHORING. MAINTENANCE - INSPECT ALL SEEDING AREAS AND MAKE NEEDED REPAIRS, REPLACEMENTS AND RESEEDINGS.

# <u>TEMPORARY SEEDING NOTES</u>

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

SOIL AMENDMENTS: APPLY 600 LBS. PER ACRE 10-10-10 FERTILIZER (14 LBS./1000 SQ.FT.)

SEEDING: FOR PERIODS MARCH 1 THRU MAY 15 AND FROM AUGUST 1 THRU NOVEMBER 15, SEED WITH 2-1/2 BUSHEL PER ACRE OF ANNUAL RYE (3.2 LBS./1000 SQ.FT.) FOR THE PERIOD MAY 1 THRU JULY 31, SEED WITH 3 LBS. PER ACRE OF WEEPING LOVEGRASS (.07 LBS./1000 SQ.FT.). FOR THE PERIOD NOVEMBER 16 THRU FEBRUARY ROTECT SITE BY APPLYING 2 TONS PER ACRE OF WELL ANCHÓRED STRAW MULCH AND SEED AS SOON AS POSSIBLE in the spring. Or use sod

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

REFER TO THE 1983 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL FOR ADDITIONAL RATES AND METHODS NOT COVERED.

<u>STANDARD SEDIMENT CONTROL NOTES</u> 1) A MINIMUM OF 48 HOURS NOTICE MUST BE GIVEN TO THE HOWARD COUNTY DEPARTMENT O INSPECTIONS, LICENSES AND PERMITS, SEDIMENT CONTROL DIVISION PRIOR TO THE START OF MAY CONSTRUCTION, (313-1855).

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 SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT 2) CONTROL". AND REVISIONS THERETO.

- FOLLOWING INITIAL SOIL DISTURBANCE OR REDISTURBANCE, PERMANENT OR TEMPORARY STABILIZATION SHALL BE COMPLETED WITHIN: A) 7 CALENDAR DAYS FOR ALL PERIMETER SEDIMENT CONTROL STRUCTURES, DIKES, PERIMETER SLOPES AND ALL SLOPES GREATER THAN 3:1, B) 14 DAYS AS TO ALL OTHER DISTURBED OR GRADED AREAS ON THE PROJECT SITE.
- 4) 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 1991 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL FOR PERMANENT SEEDING (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 ATION AND ESTABLISHMENT OF GRASSES.
- 6) 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) SIT	TE ANALYSIS: TOTAL AREA OF SITE:	0.52	ACRES
	AREA DISTURBED:	0.43	ACRES
	AREA TO BE ROOFED OR PAVED:	0.11	ACRES
	AREA TO BE VEGITATIVELY STABILIZED:	0.32	ACRES
· · · ·	TOTAL CUT:	300	CU. YDS.
	TOTAL FILL:	300	CU. YDS.
	TOTAL WASTE/BORROW AREA LOCATION: _	<u>N/A</u>	

THESE QUANTITIES ARE FOR PERMIT PURPOSES ONLY. CONTRACTOR IS REQUIRED TO PROVIDE HIS OWN QUANTITY MEASUREMENTS.

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

EDIMENT CONTROL INSPECTOR. 10) ON ALL SITES WITH DISTURBED AREAS IN EXCESS OF 2 ACRES, APPROVAL OF THE INSPECTION AGENCY SHALL BE REQUESTED UPON COMPLETION OF INSTALLATION OF PERIMETER EROSION AND SEDIMENT CONTROLS, BUT BEFORE PROCEEDING WITH ANY OTHER EARTH DISTURBANCE OR GRADING. OTHER BUILDING OR GRADING INSPECTION APPROVALS MAY NOT BE AUTHORIZED UNTIL THIS INITIAL APPROVAL BY THE 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.

INVOLVED IN THE CONSTRUCTION PROJECT WILL HAVE A CERTIFICATE OF ATTENDANCE AT A DEPARTMENT OF THE ENVIRONMENT AND EROSION BEFORE BEGINNIC THE PROJECT. I ALSO AUTHORIZE PERIODIC ON-SITE INSPECTION BY DEVINITAL RESOURCE CONSERVATION SERVICE. SIGNATURE BYVELOPER DATE SIGNATURE BYVELOPER I CERTIFY THAT THIS PLAN FOR EROSION AND SEDIMENT CONTROL REPRESENTS A PRACTICAL AND WORKABLE PLAN BASED ON MY PERSONAL KNOWEDGE OF THE SITE CONDITIONS AND THAT IT WAS PREPARED IN ACCORDANCE WITH THE REQUIREMENTS OF THE NATURAL RESOURCE CONSERVATION SERVICE. BY JEAN THE NAME OF ENGINEER THIS DEVELOPMENT PLAN IS APPROVED FOR SOIL EROSION AND SEDIMENT CONTROL BY THE HOWARD SOIL CONSERVATION DISTRICT. APPROVED: DEPARTMENT OF PLANNING AND ZONING MWARD SOIL CONSERVATION DISTRICT. APPROVED: DEPARTMENT OF PLANNING AND ZONING MUMARD SOIL CONSERVATION DISTRICT. APPROVED A AND AND AND AND AND AND AND AND AND	I CERTIFY THAT ALL DEVELOPMENT AND CONSTRUCTION WILL ACCORDING TO THIS PLAN, AND THAT ANY RESPONSIBLE PE	
BUILD SIGNATURE DVELOPER DATE	ATTENDANCE AT A DEPARTMENT OF THE ENVIRONMENT APP TRAINING PROGRAM FOR THE CONTROL OF SEDIMENT AND E BEGINNING THE PROJECT. I ALSO AUTHORIZE PERIODIC ON-	roved Rosion Before
Signa Brown         PRINTED NAME OF DEVELOPER         ENGINEER'S CERTIFICATE         I CERTIFY THAT THIS PLAN FOR EROSION AND SEDIMENT CONTROL REPRESENTS A PRACTICAL AND WORKABLE PLAN BASED ON MY PERSONAL KNOWEDGE OF THE SITE CONDITIONS AND THAT IT WAS PREPARED IN ACCORDANCE WITH THE REQUIREMENTS OF THE MATURAL RESOURCE CONSERVATION SERVICE.         B/3/12         SIGNATURE OF ENGINEER         R. JACOB HIKMAT         PRINTED NAME OF ENGINEER         THIS DEVELOPMENT PLAN IS APPROVED FOR SOIL EROSION AND SEDIMENT CONTROL BY THE HOWARD SOIL CONSERVATION DISTRICT.         JUDWARD SOIL CONSERVATION DISTRICT.         JUDWARD SOIL CONSERVATION DISTRICT         APPROVED:         DEPARTMENT OF PLANNING AND ZONING         MULTICE         CHIEF, DEVELOPMENT ENGINEERING DIVISION	49h	813/12
ENGINEER'S CERTIFICATE         I CERTIFY THAT THIS PLAN FOR EROSION AND SEDIMENT CONTROL REPRESENTS         A PRACTICAL AND WORKABLE PLAN BASED ON MY PERSONAL KNOWEDGE OF         THE STE CONDIONS AND THAT IT WAS PREPARED IN ACCORDANCE WITH THE         REQUIREMENTS OF THE NATURAL RESOURCE CONSERVATION SERVICE.         STONATURE OF ENGINEER         A PROVED FOR ENGINEER         ATE         R. JACOB HIKMAT         PRINTED NAME OF ENGINEER         THIS DEVELOPMENT PLAN IS APPROVED FOR SOIL         EROSION AND SEDIMENT CONTROL BY THE HOWARD         SOIL CONSERVATION DISTRICT.         JUWARD SOIL CONSERVATION DISTRICT         APPROVED: DEPARTMENT OF PLANNING AND ZONING         MULTION         MULTION         APPROVED: DEPARTMENT OF PLANNING AND ZONING         MULTION         MULTION         APPROVED: DEPARTMENT OF PLANNING AND ZONING         MULTION         MULTION         MULTION         MULTION         MULTION         MULTION         MULTION	SIGNATURE BEVELOPER	DATE
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I CERTIFY THAT THIS PLAN FOR EROSION AND SEDIMENT CONTROL REPRESENTS A PRACTICAL AND WORKABLE PLAN BASED ON MY PERSONAL KNOWEDGE OF THE SITE CONDITIONS AND THAT IT WAS PREPARED IN ACCORDANCE WITH THE REQUIREMENTS OF THE NATURAL RESOURCE CONSERVATION SERVICE. SIGNATURE OF ENGINEER R. JACOB HIKMAT PRINTED NAME OF ENGINEER THIS DEVELOPMENT PLAN IS APPROVED FOR SOIL EROSION AND SEDIMENT CONTROL BY THE HOWARD SOIL CONSERVATION DISTRICT. JUNEAU JUNEAU APPROVED: DEPARTMENT OF PLANNING AND ZONING CHIEF, DEVELOPMENT ENGINEERING DIVISION	ENGINEER'S CERTIFICATE	
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R. JACOB HIKMAT         PRINTED NAME OF ENGINEER         THIS DEVELOPMENT PLAN IS APPROVED FOR SOIL         EROSION AND SEDIMENT CONTROL BY THE HOWARD         SOIL CONSERVATION DISTRICT.         JUDWARD SOIL CONSERVATION DISTRICT         APPROVED: DEPARTMENT OF PLANNING AND ZONING         MULTION         CHIEF, DEVELOPMENT ENGINEERING DIVISION	10	8/3/12
PRINTED NAME OF ENGINEER         THIS DEVELOPMENT PLAN IS APPROVED FOR SOIL         EROSION AND SEDIMENT CONTROL BY THE HOWARD         SOIL CONSERVATION DISTRICT.         JUM         MOWARD SOIL CONSERVATION DISTRICT.         APPROVED:         DEPARTMENT OF PLANNING AND ZONING         MOWARD EXPLOYMENT ENGINEERING DIVISION	SIGNATURE OF ENGINEER	DATE
PRINTED NAME OF ENGINEER         THIS DEVELOPMENT PLAN IS APPROVED FOR SOIL         EROSION AND SEDIMENT CONTROL BY THE HOWARD         SOIL CONSERVATION DISTRICT.         JUM         MOWARD SOIL CONSERVATION DISTRICT.         APPROVED:         DEPARTMENT OF PLANNING AND ZONING         MOWARD EXPLOYMENT ENGINEERING DIVISION		
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APPROVED: DEPARTMENT OF PLANNING AND ZONING	EROSION AND SEDIMENT CONTROL BY THE HOW	
APPROVED: DEPARTMENT OF PLANNING AND ZONING	John R. Rabertan	3/12/13
CHIEF, DEVELOPMENT ENGINEERING DIVISION	MOWARD SOIL CONSERVATION DISTRICT	DATE
CHIEF, DEVELOPMENT ENGINEERING DIVISION	APPROVED: DEPARTMENT OF PLANNING AND ZO	NING
CHIEF, DEVELOPMENT ENGINEERING DIVISION	Maria Wernen	Rinks
un preservo	Vot < (10. A. ile	, 3/13/12
CHIEF DIVISION OF CAN DEPENDENT DATE	CHIEF DIVISION OF LAND DEMODMENT	DATE
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# STANDARD AND SPECIFICATIONS FOR TOPSOIL

DEFINITION PLACEMENT OF TOPSOIL OVER A PREPARED SUBSOIL PRIOR TO ESTABLISHMENT OF PERMANENT VEGETATION

TO PROVIDE A SUITABLE SOIL MEDIUM FOR VEGETATIVE GROWTH. SOILS OF CONCERN HAVE LOW MOISTURE CONTENT, LOW NUTRIENT LEVELS, LOW pH, MATERIALS TOXIC TO PLANTS, AND/OR UNACCEPTABLE SOIL GRADATION.

### CONDITIONS WHERE PRACTICE APPLIES

- THIS PRACTICE IS LIMITED TO AREAS HAVING 2:1 OR FLATTER SLOPES WHERE:
- G. THE TEXTURE OF THE EXPOSED SUBSOIL/PARENT MATERIAL IS NOT ADEQUATE TO PRODUCE VEGETATIVE
- c. THE ORIGINAL SOIL TO BE VEGETATED CONTAINS MATERIAL TOXIC TO PLANT GROWTH
- d. THE SOIL IS SO ACIDIC THAT TREATMENT WITH LIMESTONE IS NOT FEASIBLE. FOR THE PURPOSE OF THESE STANDARDS AND SPECIFICATIONS, AREAS HAVING SLOPES STEEPER THAN 2:1 REQUIRE SPECIAL CONSIDERATION AND DESIGN FOR ADEQUATE STABILIZATION. AREAS HAVING SLOPES STEEPER THAN 2:1 SHALL HAVE THE APPROPRIATE STABILIZATION SHOWN ON THE PLANS.
- CONSTRUCTION AND MATERIAL SPECIFICATIONS TOPSOIL SALVAGED FROM THE EXISTING SITE MAY BE USED PROVIDED THAT IT MEETS THE STANDARDS AS SET
- USDA-SCS IN COOPERATION WITH MARYLAND AGRICULTURAL EXPERIMENTAL STATION. 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 CON-TRASTING TEXTURED SUBSOILS AND SHALL CONTAIN LESS THAN 5% BY VOLUME OF CINDERS, STONES, SLAG, COARSE FRAGMENTS, GRAVEL, STICKS, ROOTS, TRASH, OR OTHER MATERIALS LARGER THAN 1 1/2" IN
- 1. TOPSOIL MUST BE FREE OF PLANTS OR PLANT PARTS SUCH AS BERMUDA GRASS, QUACKGRASS, JOHNSON-SON GRASS, NUTSEDGE, POISON IVY, THISTLE, OR OTHERS AS SPECIFIED. iii. WHERE THE SUBSOIL IS EITHER HIGHLY ACIDIC OR COMPOSED OF HEAVY CLAYS, GROUND LIMESTONE SHALL

PROCEDURES. III. FOR SITES HAVING DISTURBED AREAS UNDER 5 ACRES: i. PLACE TOPSOIL (IF REQUIRED) AND APPLY SOIL AMENDMENTS AS SPECIFIED IN 20.0 VEGETATIVE

- STABILIZATION SECTION I VEGETATIVE STABILIZATION METHODS AND MATERIALS. FOR SITES HAVING DISTURBED AREAS OVER 5 ACRES:
- a. ph for topsoils shall be between 6.0 and 7.5. If the tested soil demonstrates a ph of
- b. ORGANIC CONTENT OF 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.
- 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 NATURAL

- ITOPSIBLACE TOPSOIL (IF REQUIRED) AND APPLY SOIL AMENDMENTS AS SPECIFIED IN <u>20.0 VEGETATIVE</u> <u>STABILIZATION</u> SECTION I VEGETATIVE STABILIZATION METHODS AND MATERIALS. V. TOPSOIL APPLLICATION
  - WHEN TOPSOILING, MAINTAIN NEEDED EROSION AND SEDIMENT CONTROL PRACTICES SUCH AS DIVERSIONS,
- 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" TO 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.
- THE SUBSOIL IS EXCESSIVELY WET OR IN A CONDITION THAT MAY OTHERWISE BE DETRIMENTAL TO PROPER GRADING AND SEEDBED PREPARATION.
- M. ALTERNATIVE FOR PERMANENT SEEDING INSTEAD OF APPLYING THE FULL AMOUNTS OF LIME AND COMMERCIAL FERTILIZER, COMPOSTED SLUDGE AND AMENDMENTS MAY BE APPLIED AS SPECIFIED BELOW:
- i. COMPOSTED SLUDGE MATERIAL FOR USE AS A SOIL CONDITIONER FOR SITES HAVING DISTURBED AREAS OVER 5 ACRES SHALL BE TESTED TO PRESCRIBE AMENDMENTS AND FOR SITES HAVING AREAS UNDER 5 ACRES SHALL CONFORM TO THE FOLLOWING REQUIREMENTS: O. COMPOSTED SLUDGE SHALL BE SUPPLIED BY, OR ORIGINATE FROM, A PERSON OR PERSONS WHO 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 LEASE 1 PERCENT NITROGEN, 1.5 PERCENT PHOSPHOURUS, AND 0.2 PERCENT POTASSIUM AND HAVE A Ph OF 7.0 TO 8.0. IF COMPOST DOES NOT MEET THESE REQUIREMENTS, THE APPROPRIATE CONSTITUENTS MUST BE ADDED TO MEET THE REQUIREMENTS PRIOR TO USE.
- C. COMPOSTED SLUDGE SHALL BE APPLIED AT A RATE OF 1 TON/1,000 SQUARE FEET.
- SQUARE FEET, AND 1/3 THE NORMAL LIME APPLICATION RATE.

REFERENCES: GUIDELINE SPECIFICATIONS, SOIL PREPARATION AND SODDING. MD-VA, PUB. #1, COOPERATIVE EXTENSION SERVICE, UNIVERSITY OF MARYLAND AND VIRGINIA POLYTECHNIC INSTITUTES. REVISED 1973.

<u>TEMPORARY DUST CONTROL MEASURES</u> 1. MULCHES - SEE STANDARDS FOR VEGETATIVE STABILIZATION WITH MULCHES ONLY. MULCH SHOULD BE CRIMPED OR TACKED TO PREVENT BLOWING.

2. VEGETATIVE COVER - SEE STANDARDS FOR TEMPORARY VEGETATIVE COVER. 3. TILLAGE - TO ROUGHTN 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 APCED ABOUT 12" APART, SPRING-TOOTHED HARROWS, AND SIMILAR PLOWS ARE EXAMPLES OF EQUIPMENT WHICH MAY PRODUCE THE DESIRED EFFECT

4. 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 SIMILAR MATERIAL CAN BE USED TO CONTROL AIR CURRENTS AND SOIL BLOWING. BARRIERS PLACED AT RIGHT ANGLES TO PREVAILING CURRENTS AT INTERVALT OF ABOUT 10 TIMES THEIR HEIGHT ARE EFFECTIVE IN CONTROLLING SOIL BLOWING.

6. CALCIUM CHLORIDE - APPLY AT RATES THAT WILL KEEP SURFACE MOIST. MAY NEED RETREATMENT.

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

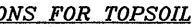
- A. THE OWNER SHALL MAINTAIN THE PLANT MATERIAL, MULCH LAYER AND SOIL LAYER ANNUALLY. MAINTENANCE OF MULCH AND SOIL IS LIMITED TO CORRECTING AREAS OF EROSION OR WASH OUT. ANY MULCH REPLACEMENT SHALL BE DONE IN THE SPRING. PLANT MATERIAL SHALL BE CHECKED FOR DISEASE AND INSECT INFESTATION AND MAINTENANCE 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
- 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
- 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 NEW LAYER IS APPLIED.
- D. THE OWNER SHALL CORRECT SOIL EROSION ON AN AS NEEDED BASIS, WITH A MINIMUM OF ONCE PER MONTH AND AFTER EACH HEAVY STORM ..

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. 17942, EXP DATE 9/3/12.

OF MARL

No 1790

S'S/ONAL



b. THE SOIL MATERIAL IS SO SHALLOW THAT THE ROOTING ZONE IS NOT DEEP ENOUGH TO SUPPORT PLANTS OR FURNISH CONTINUING SUPPLIES OF MOISTURE AND PLANT NUTRIENTS.

FORTH IN THESE SPECIFICATION. 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

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

ON SOIL MEETING TOPSOIL SPECIFICATIONS, OBTAIN TEST RESULTS DICTATING FERTILIZER AND LIME AMENDMENTS REQUIRED TO BRING THE SOIL INTO COMPLIANCE WITH THE FOLLOWING: LESS THAN 6.0, SUFFICIENT LIME SHALL BE PERSCRIBED TO RAISE THE pH TO 6.5 OR HIGHER.

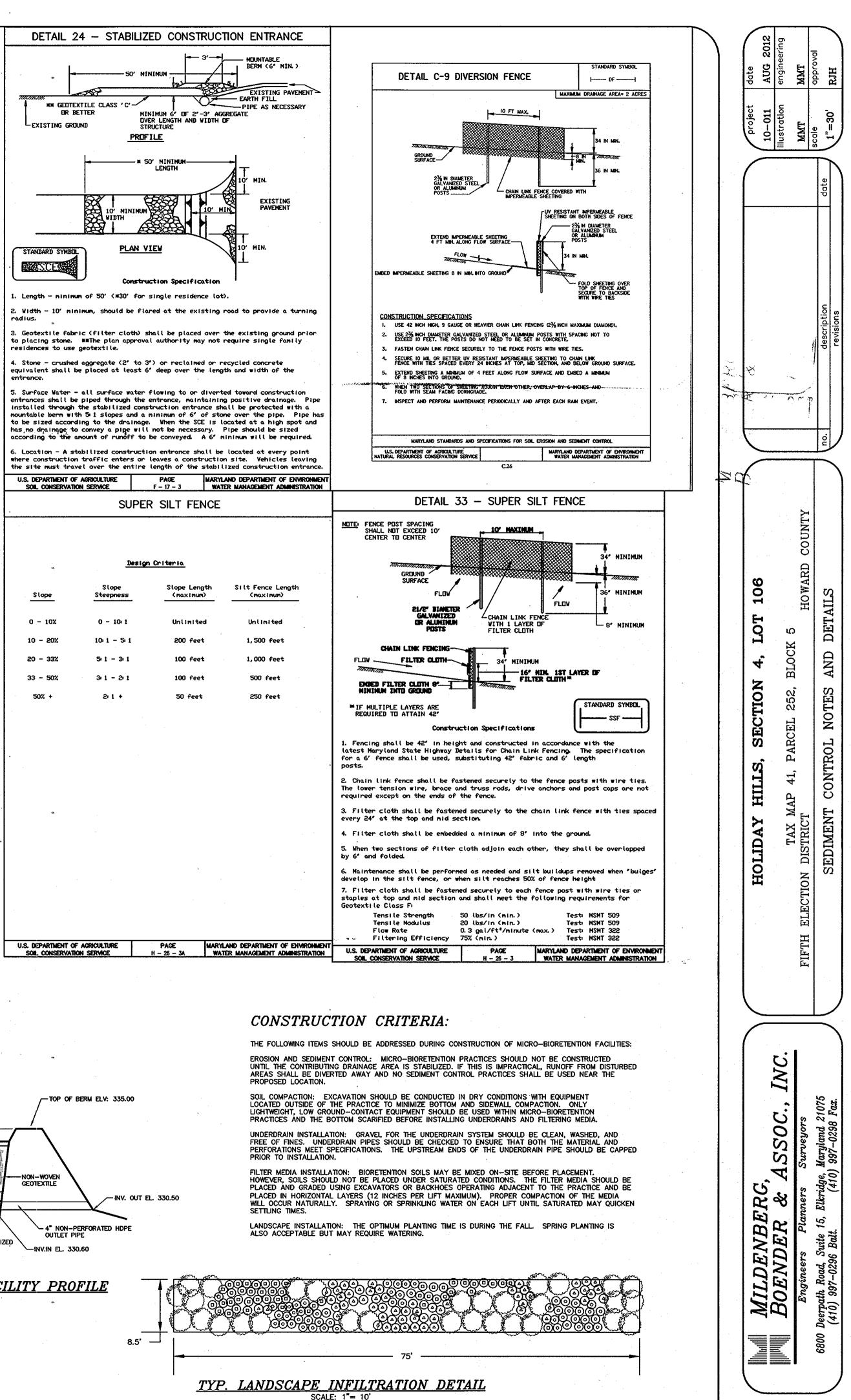
d. NO SOD OR SEED SHALL BE PLACED ON SOIL WHICH HAS BEEN TREATED WITH SOIL STERILANTS OR CHEMICALS USED FOR WEED CONTROL UNTIL SUFFICIENT TIME HAS ELAPSED (14 DAYS MIN.) TO PERMIT

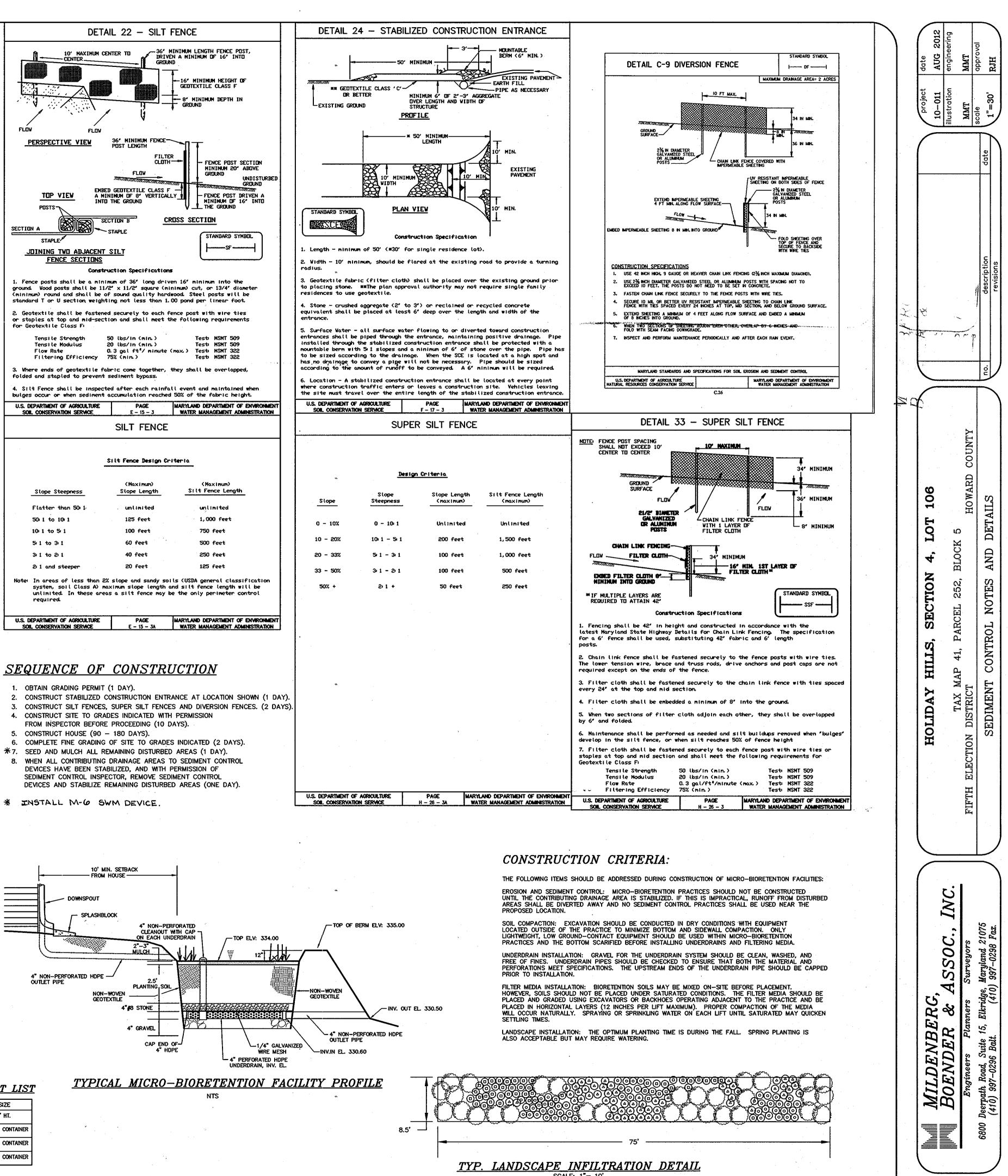
GRADE STABILIZATION STRUCTURES, EARTH DIKES, SLOPE SILT FENCE AND SEDIMENT TRAPS AND BASINS.

TOPSOIL SHALL NOT BE PLACED WHILE THE TOPSOIL OR SUBSOIL IS IN A FROZEN OR MUDDY CONDITION, WHEN

COMPOSTED SLUDGE SHALL BE AMENDED WITH A POTASSIUM FERTILLIZER APPLIED AT THE RATE OF 4 LB/1,000

	. 22 — SILT FE	ENCE	D	ETAIL 24	- STABILIZ	ED CONS
		NIMUM LENGTH FENCE POST, A MINIMUM DF 16' INTO 			TLE CLASS 'C'	INIMUM
TOP VIEW A MININ POSTS	V 36' MININUM FENCE DOST LENGTH FILTER CLOTH FLOW GEOTEXTILE CLASS F - NUM DF 8' VERTICALLY HE GROUND	FENCE POST DRIVEN A MININUM DF 16" INTO		ARD SYMBOL		50' MINIMUM LENGTH
STAPLE STAPLE JUINING TWO ADJACENT SI FENCE SECTIONS Construct 1. Fence posts shall be a minimum	APLE ILT tion Specifications m of 36' long driven		1. Lengt 2. Vidth radius. 3. Geote	- 10' minii * xtile fabric	Constr of 50' (#30' for num, should be fi c (filter cloth) ##The plan approv	ared at the ex shall be place
Tensile Modulus 20 Flow Rate 0.3	sound quality hardwo g not less than 1.00 securely to each fen n and shall meet the lbs/in (min.) lbs/in (min.)	od. Steel posts will be ) pond per linear foot, ce post with wire ties	4. Stone equivale entrance 5. Surfa entrance installe mountable to be si	es to use g - crushed o ht shall be ce Water - o s shall be d through ti e berm with zed accordin		3°) on reclaim 6' deep over t flowing to or entrance, mai struction entr minimum of 6' e. When the S
3. Where ends of geotextile fabri folded and stapled to prevent set 4. Silt Fence shall be inspected bulges occur or when sediment acc U.S. DEPARTMENT OF AGRICULTURE SOIL CONSERVATION SERVICE	diment bypass. after each rainfall cumulation reached 5	event and maintained when	6, Locat where co the site NT U.S. DEF	- Ion – A stai nstruction f	SERVICE	Ion entrance s leaves a cons length of the PAGE F - 17 - 3
	SILT FENCE				SUPE	R SILT FE
	it Fence Design Crit	ento				
511				**	Desig	<u>n Criteria</u>
Slope Steepness Flatter than 50: 1/	(Maximum) Slope Length unlimited	(Maximum) Silt Fence Length unlimited		»	Desig Slope Steepness	Slope Le (maxim
Slope Steepness	(Maximum) Slope Length	(Maximum) Silt Fence Length	0 -	» ppe 10% • 20% • 33%	Slope	Stope Le
Slope Steepness Flatter than 50: 1 50: 1 to 10: 1 10: 1 to 5: 1 5: 1 to 3: 1 3: 1 to 2: 1 2: 1 and steeper Note: In areas of less than 2% s system, soil Class A> maxim	(Maximum) <u>Slope Length</u> unlimited 125 feet 100 feet 60 feet 40 feet 20 feet slope and sandy soils	(Maximum) Silt Fence Length unlimited 1,000 feet 750 feet 500 feet	0 - 10 - 20 - 33 -	10%	Stope Steepness 0 - 10:1 10:1 - 5:1	Slope Le (maxim Unlimi 200 fe 100 fe
Slope Steepness Flatter than 50: 1 50: 1 to 10: 1 10: 1 to 5: 1 5: 1 to 3: 1 3: 1 to 2: 1 2: 1 and steeper Note: In areas of less than 2% s system, soil Class A) maximum limited. In these areas	(Maximum) <u>Slope Length</u> unlimited 125 feet 100 feet 60 feet 40 feet 20 feet slope and sandy soils mum slope length and a silt fence may be <u>PAGE</u> E - 15 - 3A	(Maximum) Silt Fence Length unlimited 1,000 feet 750 feet 250 feet 125 feet s (USDA general classification d silt fence length will be the only perimeter control	0 - 10 - 20 - 33 - 50	10% 20% 33% 50%	Slope Steepness 0 - 10:1 10:1 - 5:1 5:1 - 3:1 3:1 - 2:1	Slope Le (maxim Unlimi 200 fe





LANDSCAPE INFILTRATION PLANT LIST

QUANTITY SYMBOL BOTANICAL NAME COMMON NAME SIZE ILEX GLABRA INK BERRY 30 2' - 3' HT. 0

GREAT BLUE |1 GAL. CONTAINER ۲ Lobeu/ 60 SIPHILITICA OBELIA ONOCLEA SENSITIVE 50 0 1 GAL. CONTAINER ENSIBILIS ISTER NEW ENGLAND 1 GAL. CONTAINER . 🔘 ASTER 50

TOTAL: 160 PERENNIALS, 30 SHRUB NOTE: APPROVED ALTERNATIVE PLANTS MAY BE USED

OF 2

*SDP-11-053*