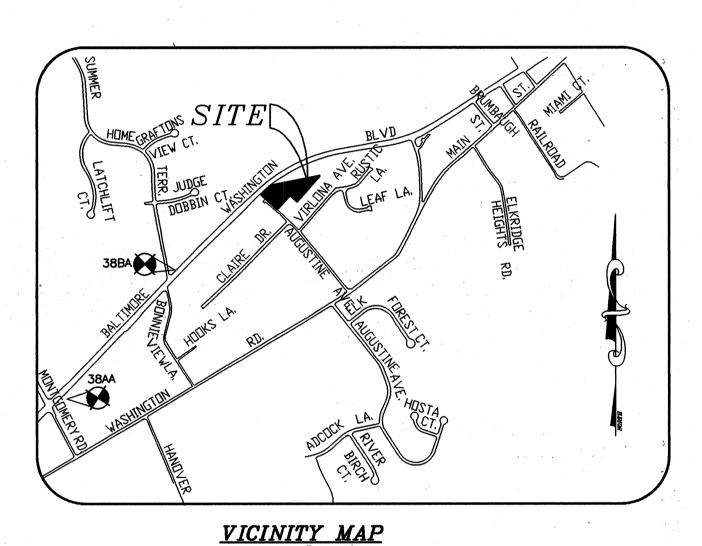
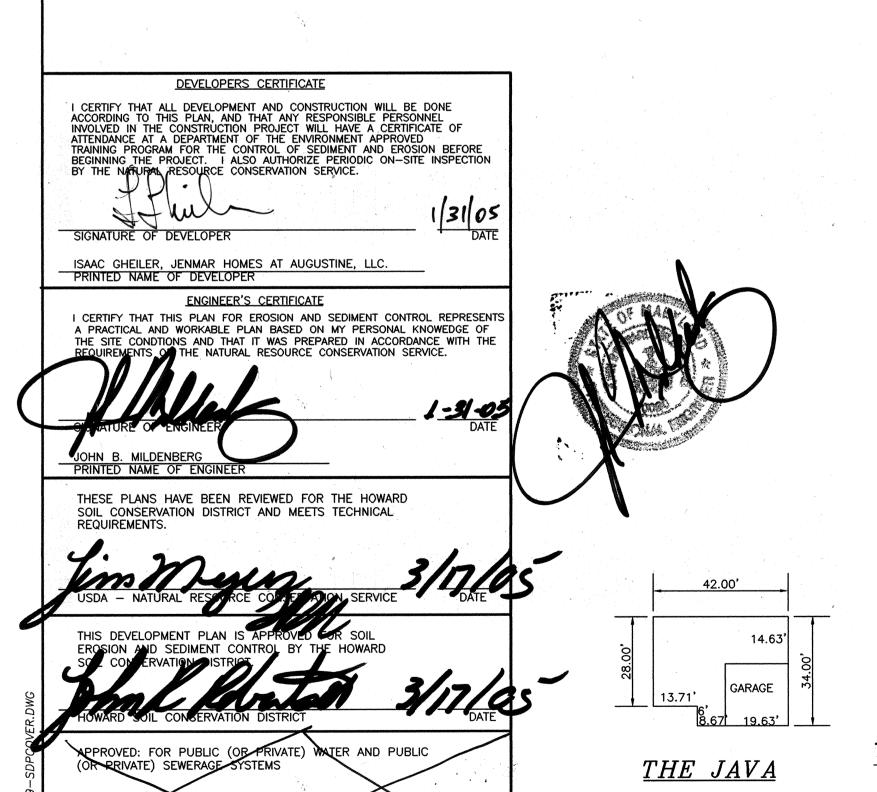
## SITE DEVELOPMENT PLAN SEDIMENT AND EROSION CONTROL DETAILS ALBRIGHT PROPERTY LOTS 1 THRU 4 & OPEN SPACE LOT 5

FIRST ELECTION DISTRICT HOWARD COUNTY, MARYLAND





FINISHED GRADE

OWARD COUNTY HEALTH DEPAREMENT

APPROVED: DEPARTMENT OF PLANNING AND ZONING

			en e		PE	RMIT	INFO	ORMATIC	ON CHA	1RT
	42.00'				SUBDIVISION NAM			SECTION/AREA	1	RCEL #
1	8' 20' 14'	<b>T</b>			PLAT # OR L/F 17241 L.4628, F.431	BLOCK #	ZONE	TAX MAP	ELEC. DIST.	,
8	14.63'					3	R-12	38	1ST	6056.02
28.0	8	3			WATER CODE	2A01		SEWER CODE	2023400	
	13.71' GARAGE &		en e		PROPOSED IMPR	OVEMENTS: SFD				
	9.50	<u> </u>			Ž					
					**					
THE.	<u> JAVA 2 – L</u>	<u>OT 3</u>								

MINIMUM LOT SIZE CHART

10.207 SQ. FT. 607 SQ. FT. 9,600 SQ. FT.

13,540 SQ, FT. 1,771 SQ, FT. 11,769 SQ, FT.

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

### ADDRESS CHART

AL	DILEGO CHARL
LOT #	ADDRESS
1	AUGUSTINE AVENUE 5765
2	AUGUSTINE AVENUE 576
3	AUGUSTINE AVENUE 5757
4	AUGUSTINE AVENUE 5745

### **GENERAL NOTES:**

- THE SUBJECT PROPERTY IS ZONED R-20 PER THE 02/02/04 COMPREHENSIVE ZONING PLAN. THIS SDP IS SUBJECT TO THE AMENDED 5TH EDITION OF THE SUBDIVISION AND LAND DEVELOPMENT REGULATIONS. 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. ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE LATEST STANDARDS AND SPECIFICATIONS OF HOWARD COUNTY, AND MSHA STANDARDS AND SPECIFICATIONS, IF APPLICABLE.
- THE CONTRACTOR SHALL NOTIFY THE DEPARTMENT OF PUBLIC WORKS/ CONSTRUCTION INSPECTION DIVISION AT (410)-313-1880 AT LEAST FIVE
- (5) WORKING DAYS PRIOR TO THE START OF WORK. 6. THE CONTRACTOR SHALL NOTIFY THE FOLLOWING UTILITIES OR AGENCIES AT LEAST FIVE (5) DAYS PRIOR TO ANY EXCAVATION WORK:

1-800-257-7777 VERIZON TELEPHONE COMPANY (410) 725-9976 HOWARD COUNTY BUREAU OF UTILITIES (410) 313-4900 AT&T CABLE LOCATION DIVISION (410) 393-3533 BALTIMORE GAS & ELECTRIC (410) 685-0123 STATE HIGHWAY ADMINISTRATION (410) 531-5533 HOWARD COUNTY DEPT. OF PUBLIC WORKS/

- CONSTRUCTION INSPECTION DIVISION (410) 313-1880 SITE ANALYSIS CHART: a. LOCATION : TAX MAP 38, PARCEL 141, FIRST ELECTION DISTRICT b. TOTAL PROJECT AREA: 2.21 AC.±
- c. LIMIT OF DISTURBED AREA: 1.55 AC. ± d. ZONING: R-12 e. PROPOSED USE FOR SITE: RESIDENTIAL f. TYPE OF PROPOSED UNIT: SFD
- g. NUMBER OF PROPOSED BUILDABLE LOTS: 4 . NUMBER OF PROPOSED OPEN SPACE LOTS : 1 . AREA OF PUBLIC RIGHT-OF-WAY : 0.48 AC. AREA OF OPEN SPACE REQUIRED : 0.44 A AREA OF OPEN SPACE PROVIDED : 0.48 A AREA OF BUILDABLE LOTS : 1.52 AC. ± . MINIMUM LOT AREA: 9,604 SQ.FT.
- k. DPZ FILE NOS. : F-03-163, WP-03-151 OPEN SPACE REQUIREMENTS HAVE BEEN SATISFIED UNDER F-03-163. OPEN SPACE LOT TO BE UTILIZED FOR FOREST CONSERVATION AREA.
- TOPOGRAPHY SHOWN HEREON IS BASED ON FIELD RUN TOPOGRAPHIC SURVEY CONDUCTED BY MILDENBERG BOENDER & ASSOCIATES ON OR ABOUT MARCH 2003.

  BOUNDARY SHOWN HEREON IS BASED ON A FIELD RUN & MONUMENTED SURVEY BY MILDENBERG, BOENDER & ASSOCIATES, INC. ON OR ABOUT MARCH 2003.
- ALL DRIVEWAY ENTRANCES FOR THIS PROJECT WILL BE CONSTRUCTED IN ACCORDANCE WITH STANDARD DETAIL R 6.06.
- 12. WATER IS PUBLIC, CONTRACT # 44-1100. SEWER IS PUBLIC, CONTRACT # 868-S
- 13. HORIZONTAL AND VERTICAL DATUMS ARE RELATED TO THE MARYLAND

NAD 83 (HORZ) AND NGVD29 (VERT) AS PROJECTED FROM HOWARD COUNTY CONTROL STATIONS NO. 38AA & 38BA (ALL UNITS IN FEET) N 561,158.784 ELEV. 220.778

E 1,389,726.391 N 562,553.278 ELEV. 166.944 E 1,390,967.927

- 14. THIS PROPOSED SUBDIVISION WILL CONSIST OF SINGLE FAMILY DETACHED DWELLINGS. 15. ALL EXISTING STRUCTURES ON PARCEL 141 TO BE REMOVED UNLESS OTHERWISE NOTED.
- 16. NO NATURAL STEEP SLOPES, WETLANDS, STREAMS, OR FLOODPLAINS EXIST ON-SITE
- COUNTY CODE AND THE LANDSCAPE MANUAL. FINANCIAL SURETY FOR THE REQUIRED LANDSCAPING ON LOT 1 (1 SHADE TREES) IN THE AMOUNT OF \$300.00, LOT 2 (2 SHADE TREES) IN THE AMOUNT OF \$600.00, LOT 3 (2 SHADE TREES) IN THE AMOUNT OF \$600.00, LOT 4 (6 SHADE TREES, 4 EVERGREENS) IN THE AMOUNT OF \$2,400.00, WILL BE POSTED AS PART OF THE GRADING PERMIT.
- 18. FOREST CONSERVATION EASEMENT(S) HAS BEEN ESTABLISHED TO FULFILL THE REQUIREMENTS OF SECTION 16.1200 OF HOWARD COUNTY CODE AND FOREST CONSERVATION ACT. NO CLEARING, GRADING, OF CONSTRUCTION IS PERMITTED WITHIN THE FOREST CONSERVATION EASEMENT, EXCEPT AS SHOWN ON AN APPROVED ROAD CONSTRUCTION DRAWING OR SITE DEVELOPMENT PLAN. HOWEVER, FOREST MANAGEMENT PRACTICES AS DEFINED IN THE DEED OF FOREST CONSERVATION
- 19. FOREST CONSERVATION OBLIGATIONS IN ACCORDANCE WITH SECTION 16.1200 OF THE HOWARD COUNTY CODE AND FOREST CONSERVATION ACT FOR THIS SUBDIVISION HAS BEEN FULFILLED UNDER F-03-163 BY RETENTION OF 0.45 ACRES (19,864 SQ. FT.). FOREST CONSERVATION SURETY IS NOT REQUIRED
- 20. NO CLEARING. GRADING OR CONSTRUCTION IS PERMITTED WITHIN THE REQUIRED WETLANDS, STREAMS OR THEIR BUFFERS AND FOREST CONSERVATION EASEMENT AREAS.
- BY THE HOWARD COUNTY DESIGN MANUAL, CHAPTER 5, REVISED FEBRUARY, 1992, AND CANNOT BE CONSIDERED TO EXACTLY LOCATE THE 65dBA NOISE EXPOSURE. THE 65dBA NOISE LINE WAS ESTABLISHED BY HOWARD COUNTY TO ALERT DEVELOPERS, BUILDERS AND FUTURE RESIDENTS THAT AREAS BEYOND THIS THRESHOLD MAY EXCEED GENERALLY ACCEPTED NOISE LEVELS ESTABLISHED BY THE U.S. DEPARTMENT OF HOUSING AND UBAN DEVELOPMENT.
- 22. SOILS DATA BASED ON HOWARD COUNTY SOIL SURVEY DATED JULY 1968, SHEET 20. 23. DRIVEWAYS SHALL BE PROVIDED PRIOR TO ISSUANCE OF A USE AND OCCUPANCY PERMIT TO ENSURE SAFE ACCESS FOR FIRE AND EMERGENCY VEHICLES PER THE FOLLOWING
  - A) WIDTH 12 FEET (14 FEET SERVING MORE THAN ONE RESIDENCE).
  - B) SURFACE 6 INCHES OF COMPACTED CRUSHER RUN BASE WITH TAR AND CHIP COATING.
  - C) GEOMETRY MAXIMUM 14% GRADE, MAXIMUM 10% GRADE CHANGE AND MINIMUM OF 45-FOOT 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 ENSURE ALL WEATHER USE.
- 24. STORMWATER MANAGEMENT IS PROVIDED UNDER F-03-163 VIA THE USE OF GRASS CHANNEL, ROOFTOP DISCONNECTION & SHEETFLOW TO BUFFER CREDITS IN ACCORDANCE WITH THE 2000 MARYLAND STORMWATER DESIGN MANUAL FOR A TOTAL WQv REDUCTION OF 0.05ac-ft AND Rev REDUCTION OF 0.07ac (AREA
- METHOD). 25. 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 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.

- 26. FOR FLAG OR PIPESTEM LOTS, REFUSE COLLECTION, SNOW REMOVAL AND ROAD MAINTENANCE ARE PROVIDED TO THE JUNCTION OF THE FLAG OR PIPESTEM AND ROAD RIGHT-OF-WAY LINE AND NOT ONTO THE PIPESTEM LOT DRIVEWAY.
- 27. UPON RESUBDIVISION OF LOT 4 OF THIS SUBDIVISION, ROAD FRONTAGE IMPROVEMENTS WILL BE REQUIRED TO PROVIDE ADEQUATE PAVEMENT WIDTH, CURB AND GUTTER IMPROVEMENTS, SIDEWALKS AND ADDITIONAL RIGHT-OF-WAY AND PAVEMENT IMPROVEMENTS FOR THE OTHER HALF OF THE TEE TURNAROUND FOR
- 28. WAIVER PETITION WP-03-151 APPROVED JULY 30, 2003, TO WAIVER SECTIONS 16.120(c)(2)(ii), 16.121(e)(1), AND 16.120(b)(4)(iv), WHICH REQUIRE 40-FT FRONTAGE FOR OPEN SPACE AND PROHIBIT ENCUMBERING RESIDENTIAL LOTS WITH OPEN SPACE ACCESS EASEMENTS. THE FOLLOWING ARE CONDITIONS OF APPROVAL: THE AREA WITHIN THE EASEMENT FOR PEDESTRIAN ACCESS TO LOT 5 SHALL NOT BE USED FOR STORMWATER MANAGEMENT CONVEYANCE OR STORMWATER MANAGEMENT. ON F-03-163, PROVIDE THE FOLLOWING: A. PROVIDE A 12-FOOT ACCESS EASEMENT FOR OPEN SPACE LOT 5 BETWEEN LOTS 3 AND 4 FROM THE USE-IN-COMMON DRIVEWAY EASEMENT TO THE BOUNDARY OF OPEN SPACE LOT 5. THIS EASEMENT SHALL PROVIDE FOR PEDESTRIAN AND

VEHICULAR ACCESS TO OPEN SPACE LOT 5. B. A SHARED ACCESS EASEMENT, SERVING LOTS 2-4 AND OPEN SPACE LOT 5 SHALL BE ESTABLISHED FOR USE BY THOSE LOTS. THIS EASEMENT SHALL BE A MINIMUM OF 34 FEET IN WIDTH AS PROPOSED ON THE WAIVER PETITION EXHIBIT AND SHOULD EXTEND ONTO LOTS 3 AND 4. CONCURRENTLY, WITH THE RECORDATION OF THE PLAT FOR THIS SUBDIVISION, A MAINTENANCE AGREEMENT WILL BE RECORDED. THE DEVELOPER WILL BE RESPONSIBLE FOR THE PREPARATION OF THIS DOCUMENT C. INCREASE THE SIDE SETBACKS ADJACENT TO THE ACCESS EASEMENT ON LOTS 3 AND 4 BY 10 FEET EACH, FROM 7.5 FEET TO 17.5 FEET FROM THE COMMON

D. PROVIDE A GRASSED ACCESS ON THE EASEMENT BETWEEN LOTS 3 AND 4, WITH THE ACCESS DEMARCATED BY BOLLARDS. 29. MAA GRANTED APPROVAL FOR SEEDING SPECIFICATIONS ON MARCH 25, 2005.

### OWNER AND DEVELOPER

3403 OLD POST DRIVE BALTIMORE, MARYLAND 21208 410-730-0810

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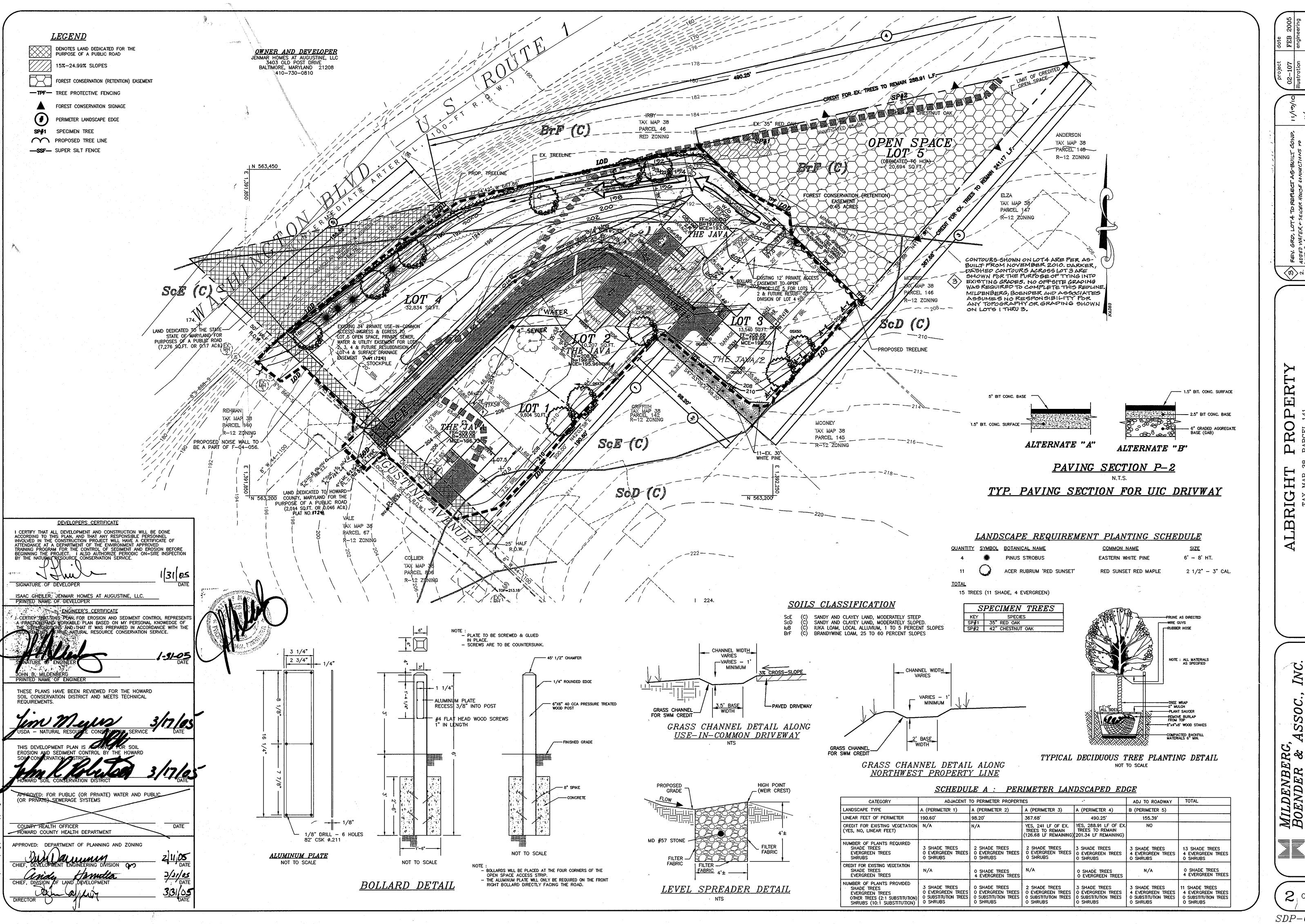
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SDP-05-05

### MARYLAND AVIATION ADMINISTRATION

### TEMPORARY/PERMANENT SEEDING NOTES

903-1.1 GENERAL. THIS ITEM PROVIDES SPECIFICATIONS FOR SEEDING OF AREAS AS DESIGNATED ON PLANS OR AS DIRECTED BY THE MAA ENGINEER. THE SPECIES, MIXTURES, AND METHODS OF APPLICATION PROVIDED IN THIS ITEM HAVE BEEN DESIGNED TO REDUCE THE ATTREACTIVENESS OF AIRPORT GROUNDS TO WILDLIFE. ONLEY MAA-APPROVED SPECIES, MIXTURES AND RATES OF APPLICATION PROVIDED IN THIS ITEM MAY BE USED TO ESTABLISH VEGETATIONS. ALL ACTIVITIES ASSOCIATED WITH SEEDING INCLUDING SOIL PREPARATION, SEED APPLICATION, FERTILIZATION, AND MAINTENANCE SHALL ALSO CONFORM TO THESE APPROVED STANDARDS.

903-2.1 SEED. ALL SEED SHALL COMPLY WITH THE MARYLAND SEED LAW (AGRICULTURAL ARTICLE OF THE ANNOTATED CODE OF MARYLAND). ONLY MAA-APPROVED SPECIES, MIXTURES, AND RATES OF APPLICATION PROVIDED IN THIS ITEM MAY BE USED TO ESTABLISH VEGETATION. SEED WILL BE SAMPLED AND TESTED BY AN INSPECTOR FROM THE TURF AND SEED SECTIONS, MARYLAND DEPARTMENT OF AGRICULTURE(MDA), ANNAPOLIS, MARYLAND. ALL LAWN AND TURF SEED MIXTURES SHALL BE FREE FROM THE FOLLOWING STATE-LISTED RESTRICTED NOXIOUS WEEDS:

CORN COCKLE (AGROSTEMMA GITHAGO), BENTGRASS (AGROSTIS SPP.), REDTOP (AGROSTIS GIGANTEA) WILD ONION (ALLIUM CANADENSE), WILD GARLIC (ALLIUM VINEALE), BINDWEED (CALSTEGIA SPP.). DODDER (CUSCUTA SPP.) BERMUDA GRASS (CYNODON DACTYLON), ORCHARDGRASS (DACTYLIS GLOMERATA) TALL FESCUE (FESTUCA ARUNDINACEA), MEADOW FESCUE (FESTUCA PRATENSIS), VELVETGRASS (HOLCUS LANATUS), ANNUAL BLUEGRASS (POA ANNUA), ROUGH BLUEGRASS (POA TRIVIALIS), TIMOTHY (PHLEUM PRATENSE), AND JOHNSON GRASS (SORGUM HALEPENSE).

RESTRICTED NOXIOUS-WEED SEED MAY NOT EXCEED 0.5 PERCENT BY WEIGHT OF ANY SEED MIXTURE. IN ADDITION, ALL SEEDS SOLD IN MAYRLAND SHALL BE FREE FROM THE FOLLOWING PROHIBITED NOXIOUS WEEDS: BALLOON VINE (CARDIOSPERMUM HALICACABUM), QUACKGRASS (ELYTRIGIA REPENS), SICKLEPOD (SENNA OBTUSIFOLIA), SORGHUM (SORGHUM SPP.), CANADA THISTLE (CIRSIUM ARVENSE), PLUMELESS THISTLE (CARDUUS SPP.-INCLUDES MUSK THISTLE AND CURLED THISTLE), AND SERRATED TUSSOCK(NASSELLA TRICHOTOMA).

903-2.1.1 APPROVED SPECIES. THE FOLLOWING TABLE CONTAINS SPECIES THAT ARE APPROVED BY MAA FOR USE IN SEED MIXTURES. PURITY REQUIREMENTS AND GERMINATOIN REQUIREMENTS ARE ALSO PROVIDED.

	APPROVED PLAN MAA SEED M		
	PURITY <sup>a</sup> NOT LESS THAN %	MINIMUM % GERMINATION b	PURE LIVE SEED FACTOR
CERTIFIED TURF-TYPE TALL FESCUE (FESTUCA ARUNDINACEA)	98	90	1.13
CERTIFIED KENTUCKY BLUEGRASS (POA PRATENSIS)	90	80	1.39
HARD FESCUE (FESTUCA LONGIFOLIA)	98	90	1.13
CHEWINGS RED FESCUE (FESTUCA RUBRA COMMUTATA)	98	90	1.13
ANNUAL RYEGRASS (LOLIUM MULTIFLORUM)	95	85	1.24
PERENNIAL RYEGRASS (LOLIUM PERENNE)	90	80	1.39
FOWL MEADOW GRASS (POA PALUSTRIS)	90	80	1.39
LITTLE BLUESTEM (ANDORPOGON SCOPARIUS)	62	94	1.71

THE PERCENTAGE WEIGHT OF PURE SEED PRESENT SHALL BE FREE OF ANY AGRICULTURE SEEDS, INERT MATTER, AND OTHER SEEDS DISTINGUISHABLE BY THEIR APPEARANCE. b THE PERCENTAGE OF GERMINATION SHALL BE ACTUAL SPROUTS AND SHALL NOT INCLUDE HARD SEEDS UNLESS SPECIFICALLY PERMITTED BY THE MAA ENGINEER.

**DEVELOPERS CERTIFICATE** 

ISAAC GHEILER, JENMAR HOMES AT AUGUSTINE, LLC

THESE PLANS HAVE BEEN REVIEWED FOR THE HOWARD

APPROVED: FOR PUBLIC (OR PRIVATE) WATER AND PUBLIC

(OR PRIVATE) SEWERAGE SYSTEMS

HOWARD COUNTY HEALTH DEPARTMENT

APPROVED: DEPARTMENT OF PLANNING AND ZONING

COUNTY HEALTH OFFICER

SOIL CONSERVATION DISTRICT AND MEETS TECHNICAL

PRINTED NAME OF DEVELOPER

REQUIREMENTS.

I CERTIFY THAT ALL DEVELOPMENT AND CONSTRUCTION WILL BE DONE ACCORDING TO THIS PLAN, AND THAT ANY RESPONSIBLE PERSONNEL INVOLVED IN THE CONSTRUCTION PROJECT WILL HAVE A CERTIFICATE OF ATTENDANCE AT A DEPARTMENT OF THE ENVIRONMENT APPROVED TRAINING PROGRAM FOR THE CONTROL OF SEDIMENT AND EROSION BEFORE BEGINNING THE PROJECT. I ALSO AUTHORIZE PERIODIC ON—SITE INSPECTION BY THE PAURAL RESOURCE CONSERVATION SERVICE.

CERTIFY THAT THE PLAN FOR EROSION AND SEDIMENT CONTROL REPRESENT PRACTICAL AND WORKABLE PLAN BASED ON MY PERSONAL KNOWEDGE OF 

903-2.1.3 MIXTURES AND APPLICATION RATES. ONLY SEED MIXTURES AND APPLICATION RATES DESCRIBED IN THIS ITEM MAY BE USED UNLESS OTHERWISE APPROVED BY THE MAA ENGINEER. SEED MIXTURES SHALL MEET CRITERIA DETAILED IN PARAGRAPH 903-2.1.2. SEED MIXTURES HAVE BEEN FORMULATED TO MINIMIZE THE ATTRACTIVENESS OF AREAS TO WILDLIFE OF COMMON LANDSCAPE SCENARIOS. THE APPROPRIATE SEED MIXTURE FOR APPLICATION WILL BE DESIGNATED BASED ON ENVIRONMENTAL CONDITIONS AND MAY VARY FROM SITE TO SITE. ALL PLANTING RATES LISTED ARE IN POUNDS OF PURE LIVE SEED (PLS) PER ACRE.

SEED MIXTURES, APPLICATION SCENARIOS, AND RATES FOR PERMANENT COOL-SEASON GRASSES ARE AS FOLLOWS:

- a. SEED MIXTURE NO.1 RELATIVELY FLAT AREAS (GRADE LESS THAN 4:1) SUBJECT TO NORMAL CONDITIONS AND REGULAR MOWING (APPLICATION RATE = 234 LBS PLS/ACRE);
- b. SEED MIXTURE NO.2 SLOPED AREAS (GRADE GREATER THAN 4:1) NOT SUBJECT TO REGULAR MOWING (APPLICATION RATE = 115 LBS PLS/ACRE); AND
- c. SEED MIXTURE NO.3 WETLANDS AND THEIR ASSOCIATED BUFFER ZONES (APPLICATION RATE = 131 LBS PLS/ACRE).

SEED MIXTURE NO.1: RELATIVELY FLAT AREAS REGULARLY MOWED AND EXPOSED TO NORMAL CONDITIONS (APPLICATION RATE = 234 LBS PLS/ACRE)

LUJ	SEED	RATE OF APPLICATION (LBS OF PLS/ACRE)
	85% CERTIFIED TURF-TYPE TALL FESCUE 10% CERTIFIED KENTUCKY BLUEGRASS 5% PERNNIAL RYEGRASS	192 25 14
	SUPPLEMENTAL SEED	
	ANNUAL RYEGRASS	25

SEED MIXTURE NO.2: SLOPED AREAS NOT SUBJECT TO REGULAR MOWING (APPLICATION RATE = 115 LBS PLS/ACRE)

SEED	RATE OF APPLICATION (LBS OF PLS/ACRE)
75% HARD FESCUE 20% CHEWINGS FESCUE 5% KENTUCKY BLUEGRASS	85 25 7
SUPPLEMENTAL SEED	
	7

SEED MIXTURE NO.3: WETLAND AREAS AND THEIR ASSOCIATED BUFFER ZONES (APPLICATION RATE = 131 LBS PLS/ACRE)

DETAIL 33 - SUPER SILT FENCE

Fencing shall be 42" in height and constructed in accordance with the atest Maryland State Highway Details for Chain Link Fencing. The specification

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

3. Filter cloth shall be fastened securely to the chain link fence with ties spaced

5. When two sections of filter cloth adjoin each other, they shall be overlapped

7. Filter cloth shall be fastened securely to each fence post with wire ties or

20 (bs/in (min.)

Flow Rate 0.3 gal/ft\*/minute (max.) Test MSMT 322
Filtering Efficiency 75% (min.) Test MSMT 322

Mointenance shoul be performed as needed and silt buildups removed when "bulges

for a 6' fence shall be used, substituting 42' fabric and 6' length

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

develop in the silt fence, or when silt reaches 50% of fence height

OV \_\_\_\_ FILTER CLOTH\_\_\_

every 24° at the top and mid section.

Tensile Modulus Flow Rate

Geotextile Class F:

6 MININUM

DETAIL 24 - STABILIZED CONSTRUCTION ENTRANCE

PROFILE

Length - minimum of 50' (#30' for single residence lot

. Width - 10' minimum, should be flored at the existing road to provide a turnin

Geotextile fabric (filter cloth) shall be placed over the existing ground pri

to placing stone. \*\*\*The plan approval authority may not require single family residences to use geotextile.

5. Surface Vater - all surface water flowing to or diverted toward construction entrances shall be piped through the entrance, naintaining positive drainage. Pipe installed through the stabilized construction entrance shall be protected with a

nountable bern with 5:1 slopes and a minimum of 6' of stone over the pipe. Pipe he to be sized according to the drainage. When the SCE is located at a high spot and has no drainage to convey a pipe will not be necessary. Pipe should be sized according to the amount of runoff to be conveyed. A 6' minimum will be required.

Location - A stabilized construction entrance shall be located at every poi

the site must travel over the entire length of the stabilized construction entranc

4. Stone - crushed aggregate (2" to 3") or reclaimed or recycled concrete equivalent shall be placed at least 6" deep over the length and width of the

MINIMUM 6' OF 2'-3' AGGREGATE
OVER LENGTH AND VIDTH OF
STRUCTURE

PIPE AS NECESSARY

\*\* GEOTEXTILE CLASS 'C'-

SEED		OF APPLICA OF PLS/ACE
60% FOWL MEADOW GRASS 30% CHEWINGS FESCUE 10% PERENNIAL RYEGRASS		83 34 14
SUPPLEMENTAL SEED		
REDTOP		3

### HOWARD SOIL CONSERVATION DISTRICT 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 NAY CONSTRUCTION, (313-1855).
- 2) 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 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.
- 5) 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 GERMINATION 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)	SITE ANALYSIS: TOTAL AREA OF SITE:	2.21	ACRES
	AREA DISTURBED:	1.73	ACRES
	AREA TO BE ROOFED OR PAVED:	0.29	ACRES
	AREA TO BE VEGITATIVELY STABILIZED:	1.44	ACRES
	TOTAL CUT:	2,000	CU. YDS.
	TOTAL FILL:	2,000	CU. YDS.
	TOTAL WASTE/BORROW AREA LOCATION:	N/A	

THESE QUANTITIES ARE FOR PERMIT PURPOSES ONLY. CONTRACTOR IS REQUIRED TO PROVIDE HIS OWN QUANTITIES 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 SEDIMENT CONTROL INSPECTOR.
- 10) ON ALL SITES WITH DISTURBED AREAS IN EXCESS OF 2 ACRES, APPROVAL OF THE INSPECTION AGENCY SHALL BE REQUESTED UPON COMPLETION OF INSTALLATION OF PERIMETER EROSION AND SEDIMENT CONTROLS, BUT BEFORE PROCEEDING WITH ANY OTHER EARTH DISTURBANCE OR GRADING. OTHER BUILDING OR GRADING INSPECTION APPROVALS MAY NOT BE AUTHORIZED UNTIL THIS INITIAL APPROVAL BY THE INSPECTION AGENCY IS MADE.
- 11) 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.

### STANDARD AND SPECIFICATIONS FOR TOPSOIL

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.

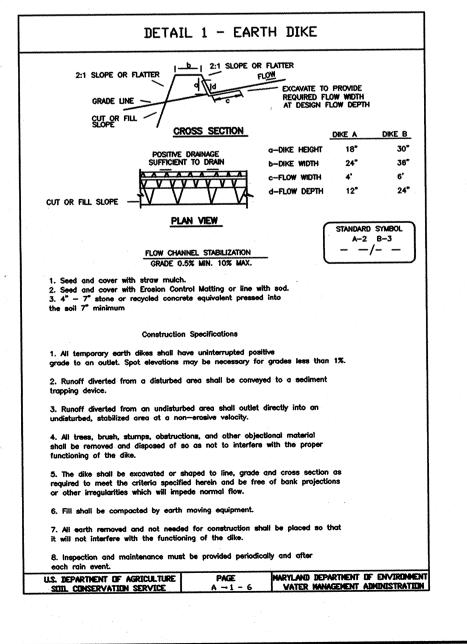
### CONDITIONS WHERE PRACTICE APPLIES

- THIS PRACTICE IS LIMITED TO AREAS HAVING 2:1 OR FLATTER SLOPES WHERE:
- a. THE TEXTURE OF THE EXPOSED SUBSOIL/PARENT MATERIAL IS NOT ADEQUATE TO PRODUCE VEGETATIVE
- b. THE SOIL MATERIAL IS SO SHALLOW THAT THE ROOTING ZONE IS NOT DEEP ENOUGH TO SUPPORT PLANTS
- OR FURNISH CONTINUING SUPPLIES OF MOISTURE AND PLANT NUTRIENTS.
- c. THE ORIGINAL SOIL TO BE VEGETATED CONTAINS MATERIAL TOXIC TO PLANT GROWTH
- d. THE SOIL IS SO ACIDIC THAT TREATMENT WITH LIMESTONE IS NOT 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 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 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
- 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.
- WHERE THE SUBSOIL IS EITHER HIGHLY ACIDIC OR COMPOSED OF HEAVY CLAYS, GROUND LIMESTONE SHALL BE SPREAD AT THE RATE OF 4-8 TONS/ACRE (200-400 POUNDS PER 1,000 SQUARE FEET) PRIOR TO THE PLACEMENT OF TOPSOIL. LIME SHALL BE DISTRIBUTED UNIFORMLY OVER DESIGNATED AREAS AND WORKED INTO THE SOIL IN CONJUNCTION WITH TILLAGE OPERATIONS AS DESCRIBED IN THE FOLLOWING PROCEDURES.

# SUPER SILT FENCE Design Criteria Silt Fence Length 0 - 10:1 500 feet



- III. FOR SITES HAVING DISTURBED AREAS UNDER 5 ACRES:
- PLACE TOPSOIL (IF REQUIRED) AND APPLY SOIL AMENDMENTS AS SPECIFIED IN 20.0 VEGETATIVE STABILIZATION - SECTION i - VEGETATIVE STABILIZATION METHODS AND MATERIALS.
- IV. FOR SITES HAVING DISTURBED AREAS OVER 5 ACRES:
  - ON SOIL MEETING TOPSOIL SPECIFICATIONS, OBTAIN TEST RESULTS DICTATING FERTILIZER AND LIME AMENDMENTS REQUIRED TO BRING THE SOIL INTO COMPLIANCE WITH THE FOLLOWING:
  - a. ph for topsoils shall be between 6.0 and 7.5. If the tested soil demonstrates a ph of LESS THAN 6.0, SUFFICIENT LIME SHALL BE PERSCRIBED TO RAISE THE pH TO 6.5 OR HIGHER.
  - b. ORGANIC CONTENT OF TOPSOIL SHALL BE NOT LESS THAN 1.5 PERCENT BY WEIGHT.
  - c. TOPSOIL HAVING SOLUBLE SALT CONTENT GREATER THAN 500 PARTS PER MILLION SHALL NOT BE USED. d. NO SOD OR SEED SHALL BE PLACED ON SOIL WHICH HAS BEEN TREATED WITH SOIL STERILANTS OR CHEMICALS USED FOR WEED CONTROL UNTIL SUFFICIENT TIME HAS ELAPSED (14 DAYS MIN.) TO PERMIT DISSIPATION OF PHYTO-TOXIC MATERIALS.

NOTE: TOPSOIL SUBSTITUTES OR AMENDMENTS, AS RECOMMENDED BY A QUALIFIED AGRONOMIST OR SOIL SCIENTIST AND APPROVED BY THE APPROPRIATE APPROVAL AUTHORITY, MAY BE USED IN LIEU OF NATURAL

ii. PLACE TOPSOIL (IF REQUIRED) AND APPLY SOIL AMENDMENTS AS SPECIFIED IN 20.0 VEGETATIVE

STABILIZATION - SECTION I - VEGETATIVE STABILIZATION METHODS AND MATERIALS.

- V. TOPSOIL APPLLICATION
- WHEN TOPSOILING, MAINTAIN NEEDED EROSION AND SEDIMENT CONTROL PRACTICES SUCH AS DIVERSIONS GRADE STABILIZATION STRUCTURES, EARTH DIKES, SLOPE SILT FENCE AND SEDIMENT TRAPS AND BASINS.
- 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.
- iv. TOPSOIL SHALL NOT BE PLACED WHILE THE TOPSOIL OR SUBSOIL IS IN A FROZEN OR MUDDY CONDITION, WHE THE SUBSOIL IS EXCESSIVELY WET OR IN A CONDITION THAT MAY OTHERWISE BE DETRIMENTAL TO PROPER GRADING AND SEEDBED PREPARATION.
- VI. ALTERNATIVE FOR PERMANENT SEEDING INSTEAD OF APPLYING THE FULL AMOUNTS OF LIME AND COMMERCIAL FERTILIZER, COMPOSTED SLUDGE AND AMENDMENTS MAY BE APPLIED AS SPECIFIED BELOW:
- 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:
- a. 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 PERCENT POTASSIUM AND HAVE A Ph OF 7.0 TO 8.0. IF COMPOST DOES NOT MEET THESE REQUIREMENT THE APPROPRIATE CONSTITUENTS MUST BE ADDED TO MEET THE REQUIREMENTS PRIOR TO USE.
- c. COMPOSTED SLUDGE SHALL BE APPLIED AT A RATE OF 1 TON/1,000 SQUARE FEET.
- iv. COMPOSTED SLUDGE SHALL BE AMENDED WITH A POTASSIUM FERTILLIZER APPLIED AT THE RATE OF 4 LB/1,000 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.

### EROSION AND SEDIMENT CONTROL NOTES

- 1. ALL SEDIMENT CONTROL OPERATIONS ARE TO BE DONE IN ACCORDANCE WITH SECTION 219 OF THE HOWARD COUNTY VOLUME IV DESIGN MANUAL AND THE STANDARDS AND SPECIFICATIONS FOR SEDIMENT CONTROL IN DEVELOPING AREAS.
- 2. ALL EROSION AND SEDIMENT CONTROL DEVICES SHALL BE INSTALLED AS THE FIRST ORDER OF
- 3. ALL EXCAVATED MATERIALS SHALL BE STOCKPILED ON THE UPGRADE SIDE OF THE MAIN TRENCH.
- 4. EXCAVATION AND BACKFILL SHALL BE LIMITED TO THAT WHICH CAN BE STABILIZED WITHIN ONE WORKING DAY
- IMMEDIATELY FOLLOWING BACKFILL OF THE SEWER TRENCH, ALL DISTURBED AREAS ARE TO BE STABILIZED IN ACCORDANCE WITH THE PERMANENT STABILIZATION AND SEEDING NOTES SHOWN
- 6. THROUGHOUT THE PROJECT, THE CONTRACTOR SHALL REGULARLY INSPECT ALL SEDIMENT CONTROL DEVICES AND PROVIDE ALL NECESSARY MAINTENANCE TO INSURE THAT ALL DEVICES ARE IN OPERATIVE CONDITION.
- 7. ALL SEDIMENT CONTROL FACILITIES SHALL REMAIN IN PLACE UNTIL PERMISSION FOR THEIR REMOVAL HAS BEEN OBTAINED FROM THE HOWARD COUNTY SEDIMENT CONTROL INSPECTOR.

### SEQUENCE OF CONSTRUCTION

- 1. OBTAIN GRADING PERMIT. (1 DAY)
- 2. CONSTRUCT STABILIZED CONSTRUCTION ENTRANCE AT LOCATION SHOWN. (1 DAY)
- 3. CONSTRUCT SUPER SILT FENCES AND DIVERSION DIKES. (2 DAYS)
- 4. CHECK SUPER SILT FENCES AND REPAIR AS NECESSARY. (2 DAYS)
- 5. COMPLETE CONSTRUCTION AS SHOWN. (60 DAYS)
- 6. COMPLETE FINE GRADING OF SITE TO GRADES INDICATED. (5 DAYS) 7. SEED AND MULCH ALL REMAINING DISTURBED AREAS. (2 DAYS)
- UPON STABILIZATION OF THE SITE AND WITH THE APPROVAL OF THE SEDIMENT CONTROL INSPECTOR, REMOVE SEDIMENT CONTROL DEVICES AND STABILIZE REMAINING DISTURBED AREAS.

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