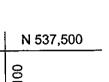
GENERAL NOTES

AT&T

THIS PROPERTY IS ZONED R-SC PER THE 02/02/04 COMPREHENSIVE ZONING PLAN AND THE "COMP
LITE" ZONING AMENDMENTS EFFECTIVE 07/28/06.
GROSS AREA OF PROPERTY = 1.883 AC.±
THIS PROPERTY IS IN THE METROPOLITAN DISTRICT.
PUBLIC WATER AND PUBLIC SEWER WILL BE USED WITHIN THIS SITE.

- THE CONTRACTOR SHALL NOTIFY THE FOLLOWING UTILITY COMPANIES OR AGENCIES AT LEAST FIVE (5) WORKING DAYS BEFORE STARTING WORK SHOWN ON THESE PLANS: 410.531.5533 STATE HIGHWAY ADMINISTRATION 410.850.4620 BGE(CONTRACTOR SERVICES) BGE(UNDERGROUND DAMAGE CONTROL) 410.787.9068 800.257.7777 MISS UTILITY COLONIAL PIPELINE COMPANY 410.795.1390 HOWARD COUNTY, DEPT. OF PUBLIC WORKS, BUREAU OF UTILITIES 410.313.4900 410.313.2640
- HOWARD COUNTY HEALTH DEPARTMENT 800.743.0033/410.224.9210 VERIZON
- PREVIOUS HOWARD COUNTY FILE NUMBERS: SP-06-023; WP-07-057; WP-08-045; F-08-137; F-09-030; CONTRACT #24-4387-D THE BOUNDARY SHOWN HEREON WAS PREPARED BY DEMARIO DESIGN CONSULTANTS, INC. IN MARCH,
- 2006, AND TAKEN FROM F-08-137. THE TOPOGRAPHY SHOWN HEREON IS TAKEN FROM ROAD CONSTRUCTION PLANS F-08-137.
- 9. THE CONTRACTOR SHALL NOTIFY MISS UTILITY AT 1-800-257-7777 AT LEAST 48 HOURS PRIOR TO ANY EXCAVATION WORK BEING DONE.
- 10. ANY DAMAGE TO PUBLIC RIGHT-OF WAYS, PAVING OR EXISTING UTILITIES WILL BE CORRECTED AT THE CONTRACTOR'S EXPENSE. 11. THE CONTRACTOR SHALL NOTIFY THE DEPARTMENT OF PUBLIC WORKS/BUREAU OF ENGINEERING CONSTRUCTION INSPECTION DIVISION AT (410) 313-1880 AT LEAST FIVE (5) WORKING DAYS PRIOR THE
- START OF WORK 12. THE LOTS SHOWN HEREON COMPLY WITH THE MINIMUM OWNERSHIP, WIDTH AND LOT AREA AS REQUIRED BY THE MARYLAND STATE DEPARTMENT OF THE ENVIRONMENT.
- 13. ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE LATEST STANDARDS AND SPECIFICATIONS
- OF HOWARD COUNTY IN ADDITION TO MSHA STANDARDS AND SPECIFICATIONS IF APPLICABLE. 14. THE PROJECT IS IN CONFORMANCE WITH THE CURRENT HOWARD COUNTY STANDARDS UNLESS WAIVERS HAVE BEEN APPROVED.
- 15. EXISTING UTILITIES ARE LOCATED BY THE USE OF ANY OR ALL OF THE FOLLOWING: ROAD CONSTRUCTION PLANS, FIELD SURVEYS, PUBLIC WATER AND SEWER PLANS AND OTHER AVAILABLE RECORD DRAWINGS. APPROXIMATE LOCATION OF THE EXISTING UTILITIES ARE SHOWN FOR THE CONTRACTORS INFORMATION. CONTRACTOR SHALL LOCATE EXISTING UTILITIES WELL IN ADVANCE OF CONSTRUCTION ACTIVITIES AND TAKE ALL NECESSARY PRECAUTIONS TO PROTECT THE EXISTING UTILITIES AND TO MAINTAIN UNINTERRUPTED SERVICE. ANY DAMAGE INCURRED DUE TO THE
- CONTRACTOR'S OPERATION SHALL BE REPAIRED IMMEDIATELY AT THE CONTRACTOR'S EXPENSE. 16. ALL HDPE PIPE SPECIFICATION AND INSTALLATION SHALL MEET AASHTO M-252 TYPE S, M-294 TYPE S AND ASTM D2321, RESPECTIVELY. 17. SOIL COMPACTION SPECIFICATIONS, REQUIREMENTS, METHODS AND MATERIALS ARE TO BE IN
- ACCORDANCE WITH THE RECOMMENDATIONS OF THE PROJECT GEOTECHNICAL ENGINEER. DRIVEWAY PAVING TO BE HOWARD COUNTY STANDARD P-1 PAVING SECTION (SEE DETAIL, THIS SHEET). GEOTECHNICAL ENGINEER TO CONFIRM ACCEPTABILITY OF PROPOSED PAVING SECTION, BASED ON SOIL TEST, PRIOR TO CONSTRUCTION. 18. ESTIMATES OF EARTHWORK QUANTITIES ARE PROVIDED SOLELY FOR THE PURPOSE OF CALCULATING
- NECESSARY FEES. 19. ALL TRAFFIC CONTROL DEVICES, MARKINGS AND SIGNING SHALL BE IN ACCORDANCE WITH THE
- LATEST EDITION OF THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD). 20. THE COORDINATES SHOWN HEREON ARE BASED UPON THE HOWARD COUNTY GEODETIC CONTROL WHICH IS BASED ON THE MARYLAND STATE PLANE COORDINATE SYSTEM. HOWARD COUNTY
- MONUMENTS 47EB AND 47DC WERE USED FOR THIS PROJECT. 21. 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. 22. DRIVEWAY(S) 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 REQUIREMENTS:
 - a) WIDTH 12 FEET (16 FEET SERVING MORE THAN ONE RESIDENCE); b) SURFACE - SIX (6") INCHES OF COMPACTED CRUSHER RUN BASE WITH TAR AND CHIP COATING (1-1/2" MINIMUM);
 - c) GEOMETRY MAXIMUM 15% GRADE, MAXIMUM 10% GRADE CHANGE AND 45-FOOT TURNING RADIUS:
 - d) STRUCTURES (CULVERTS/BRIDGES) CAPABLE OF SUPPORTING 25 GROSS TONS (H25-LOADING);
 - e) DRAINAGE ELÉMENTS CAPABLE OF SAFELY PASSING 100 YEAR FLOOD WITH NO MORE THAN 1 FOOT DEPTH OVER DRIVEWAY SURFACE: f) MAINTENANCE - SUFFICIENT TO ENSURE ALL WEATHER USE
- 23. DRIVEWAY ENTRANCES TO BE PER HOWARD COUNTY STANDARD DETAIL R-6.03 FOR LOTS 11, 12 AND 20 THRU 22 AND HOWARD COUNTY STANDARD DETAIL R-6.05 FOR LOTS 1 THRU 7. 24. SEWER HOUSE CONNECTION (SHC) TO BE AT 2.0% UNLESS OTHERWISE NOTED. CLEANOUTS ARE TO
- BE PROVIDED AT ALL BENDS. 25. THERE ARE NO WETLANDS, FLOODPLAINS, HISTORIC RESOURCES OR CEMETERIES WITHIN THE PROJECT BOUNDARY. OFF-SITE GRADING, REMOVAL OF VEGETATIVE COVER OR TREES, PAVING AND CONSTRUCTION IN THESE AREAS IS PROHIBITED UNLESS APPLICABLE WAIVERS HAVE BEEN APPROVED
- 26. A NOISE STUDY IS NOT REQUIRED FOR THIS PROJECT. 27. PERIMETER LANDSCAPING HAS BEEN PROVIDED UNDER F-08-137.
- 28. THE FOREST CONSERVATION OBLIGATION FOR THIS PROJECT HAS BEEN PROVIDED FOR UNDER
- 29. THE STORMWATER MANAGEMENT REQUIREMENTS FOR THIS PROJECT HAVE BEEN PROVIDED FOR UNDER F-08-137. 30. OPEN SPACE REQUIREMENTS HAVE BEEN PROVIDED FOR UNDER F-08-137.
- 31. STORMWATER MANAGEMENT IS PROVIDED IN ACCORDANCE WITH THE 2000 MDE MANUAL. IT WAS DETERMINED THAT THIS PROJECT MET THE CRITERIA FOR IMPLEMENTATION OF THE 2000 DESIGN CRITERIA AND GRANTED A WAIVER. PRELIMINARY PLAN (SP-06-023) WAS APPROVED ON APRIL 11, 2007. AND FINAL PLAN (F-08-137) WAS APPROVED ON OCTOBER 17, 2008. THIS PLAN IS SUBJECT TO THE EXPIRATION OF THIS WAIVER UNLESS ALL STORMWATER MANAGEMENT IS CONSTRUCTED BY MAY 4,

SEWER CONNECTION CHART LOT INV. AT R/W INV. AT R/W INV. AT HOUSE					
LOT	INV. AT R/W	INV. AT HOUSE			
1 341.54		341.84			
2 342.04		342.61			
3	341.56	341.87			
4	340.58	340.90			
5 340.02		340.37			
6 339.38 7 339.10		339.68			
		339.45			
11 342.08		342.40			
12	341.54	341.81			
20	343.28	343.89			
21	339.87	340.25			
22	340.64	341.00			

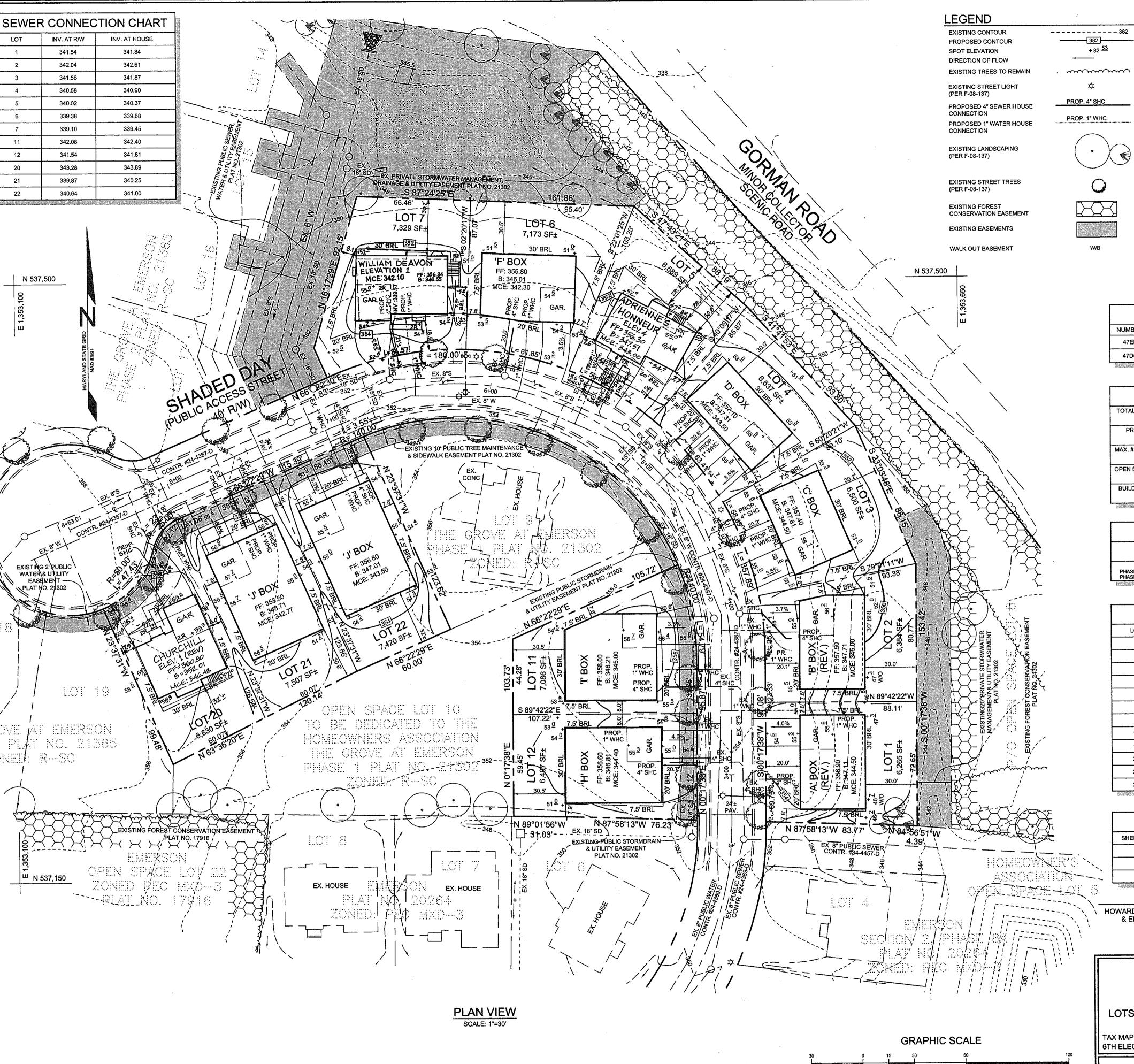


800.252.1133

EXISTING 2'PUBLIC WATER & UTILITY EASEMENT PLAT NO. 2130

REVISIONS

NO. 21365 R---SC ZONE



		DAVINO SECTIO	NIC							``
		PAVING SECTIC				.				Kontractor
SEC.	ROAD AND STREET	CALIFORNIA BEARING RATIO (CBR)	3 TO <5	5 TO <7	≥7	3 TO <5	5 TO <7	≥7		··/_/EX
NO.	CLASSIFICATION	PAVEMENT MATERIAL (INCHES)	MIN H	IMA WITH	I GAB		IMA WIT			\rightarrow
	PARKING BAYS:	HMA SUPERPAVE FINAL SURFACE 9.5 MM, PG 64-22, LEVEL 1 (ESAL)	1.5	1.5	1.5	1.5	1.5	1.5	1,353,1	
	RESIDENTIAL AND NON-RESIDENTIAL PARKING DRIVE AISLES:	HMA SUPERPAVE INTERMEDIATE SURFACE (NA)	N/A	N/A	N/A	N/A	N/A	N/A	ш <u>N 537,150</u>	ZONE
P-1	RESIDENTIAL AND NON-RESIDENTIAL WITH NO MORE THAN 2 HEAVY	HMA SUPERPAVE BASE 19.0 MM, PG 64-22 LEVEL 1 (ESAL)	2.0	2.0	2.0	3.5	3.0	2.5		
	TRUCKS PER DAY	GRADED AGGREGATE BASE (GAB)	8.5	7.0	5.0	4.0	4.0	4.0		
1. 2. 3. 4. 5. 6.	MORE INCLUDING GARBAGE T HMA SUPERPAVE LAVERS SH/ COMPACTED LIFT THICKNESS: 12.5 MM SURFACE (1.5" MIN TO MIN TO 2.0" MAX) GRADED AGGREGATE BASE (0 IN 6" MAX COMPACTED THICK/ THE INTERMEDIATE SURFACE WITHIN 2 WEEKS OF PLACEME REQUIRED PRIOR TO SUBSTAI BOND REDUCTION. IN LIEU OF PLACING THE INTE FOR COMMERCIAL / INDUSTRI COUNTY RIGHT-OF-WAY WHEI REQUIRED, THE THICKNESS CO LAYER CAN BE ADDED TO THE ASPHALT LAYER. THE CONSTRUCTION DRAWIN	ALL BE PLACED IN APPROPRIATE 19.0 MM BASE (2.0* MIN TO 4.0* MAX), 0.3.0* MAX), AND 9.5 MM SURFACE (1.0* GAB) TO BE PLACED AND COMPACTED NESS LAYERS. COURSE LAYER MUST BE PLACED INT OF BASE COURSE, AND IS NTIAL COMPLETION INSPECTION AND RMEDIATE SURFACE COURSE LAYER IAL ENTRANCE APRONS WITHIN THE RE AUXILIARY LANES ARE NOT DF THE INTERMEDIATE PAVEMENT E REQUIRED THICKNESS OF THE BASE IGS SHALL SHOW THE PAVING SECTIO RB VALUE FOR EACH ROADWAY.	, м,		FINA HMA INTE HMA GRA (GAE		ACE PAVE TE SURI PAVE BA GREGAT	SE		
APP CHI	ROVED: HOWARD COUNTY	DEPARTMENT OF PLANNING AND	/10			· · · ·		·····		
1	kat Slanhosh	12/0	ali	0		<u>3</u> Z	<u> </u>		LOT 7 TO WILLIAM DEAVON EL. 1 LOT 5 TO ADDIENNE'S HONNEUR EL.4	Nov. 29, 2012 FEB. 22,2012
СН	EF, DIVISION OF LAND DEVE	LOPMENT JATE DATE					<u> </u>		LOT 20 TO CHURCHILL ELEV. 1	FEB. 1, 2012
1	momon E	Butter 12/	9718)		NO.			DESCRIPTION	DATE
DIR	ECTOR	DATE								

(IN FEET)

1 INCH = 30 FEET

SITE HO. CO. MON. 47E8 HOWARD COUNTY, MARYLAND ADC[®] MAP 5053, GRID D8

> VICINITY MAP SCALE: 1"=2000'

		BEN	ICHMAR	KS
NUMBER	NORTHING	EASTING	ELEVATION	DESCRIPTION
47EB	536,212.7456	1,354,833.6403	354.296	23' SOUTH EAST OF G&E POLE #64982 59.3' SOUTH WEST OF G&E POLE #549367
47DC	536,615.0157	1,353,679.1226	343.249	15.2' WEST OF FH ALONG SKYLARK BLVD 200'± WEST OF THE INTER, AT GORMAN AND SKYLARK

SITE ANALYSIS DATA CHART				
TOTAL PROJECT AREA	AREA OF SUBMISSION	DISTURBED AREA	PRESENT ZONING	
1.883 AC±	1.883 AC.±	1.851 AC	R-SC	
PROPOSED USE	FLOOR SPACE PER USE	TOTAL UNITS ALLOWED	TOTAL UNITS PROPOSED	
SFD	N/A	12	12	
MAX. # EMPLY/TENANTS N/A			HC SPACES PROVIDED N/A	
OPEN SPACE REQUIRED	OPEN SPACE PROVIDED	REC. O.S. REQUIRED	REC. O.S. PROVIDED	
N/A	N/A	N/A	N/A	
BUILDING COVERAGE	FLOOR AREA RATIO		EFERENCES	
N/A	N/A		RAL NOTE #6	

P	ERMIT	INFOR	MATION	N CHART	-
SUBDIVIS THE GROVE			SECTION / AREA N/A		PARCEL # 5
PLAT PHASE 1: 21302 & 21303 PHASE 2: 21365 & 21366	GRID#	ZONING R-SC	TAX MAP # 47	ELECT. DIS. 6TH	CENSUS TRACT 6068.02

	ADDRESS CHART	
LOT	STREET ADDRESS	
1	9818 SHADED DAY	
2	9822 SHADED DAY	
3	9826 SHADED DAY	
4	9830 SHADED DAY	
5	9834 SHADED DAY	
6	9838 SHADED DAY	
7	9842 SHADED DAY	
11	9823 SHADED DAY	
12	9819 SHADED DAY	
20	9857 SHADED DAY	
21	9853 SHADED DAY	
22	9849 SHADED DAY	

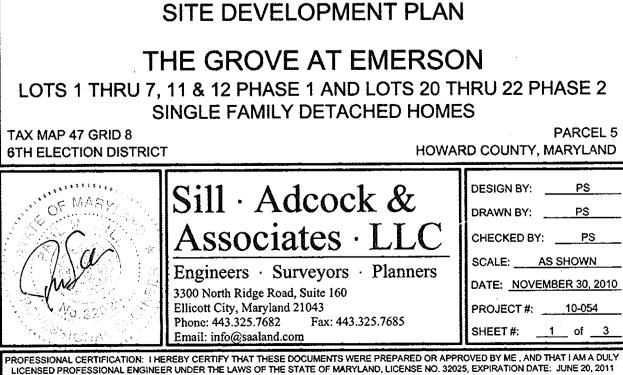
	SHEET INDEX
SHEET NO.	DESCRIPTION
1	SITE DEVELOPMENT PLAN
2	SEDIMENT AND EROSION CONTROL PLAN AND DETAILS
3	SEDIMENT AND EROSION CONTROL NOTES AND HOUSE MODEL TEMPLATES

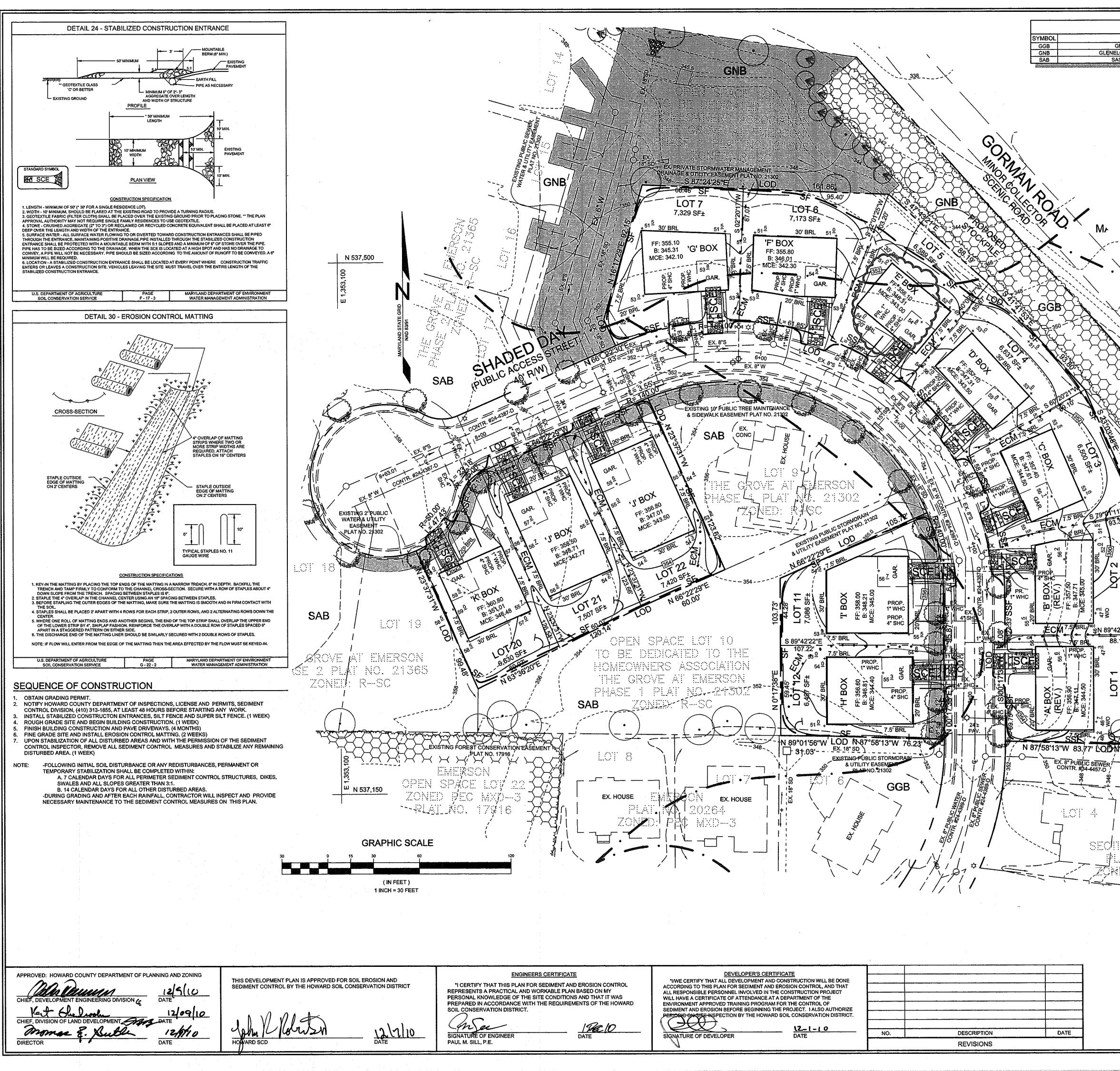
OWNER

HOWARD RESEARCH & DEVELOPMENT CORP & EMERSON LAND BUSINESS TRUST 10275 LITTLE PATUXENT PARKWAY COLUMBIA, MARYLAND 21044 410.992.6000

DEVELOPER

WILLIAMSBURG GROUP, LLC C/O ROBERT CORBETT 5485 HARPERS FARM ROAD, SUITE 200 COLUMBIA, MD 21044 410.997.8800

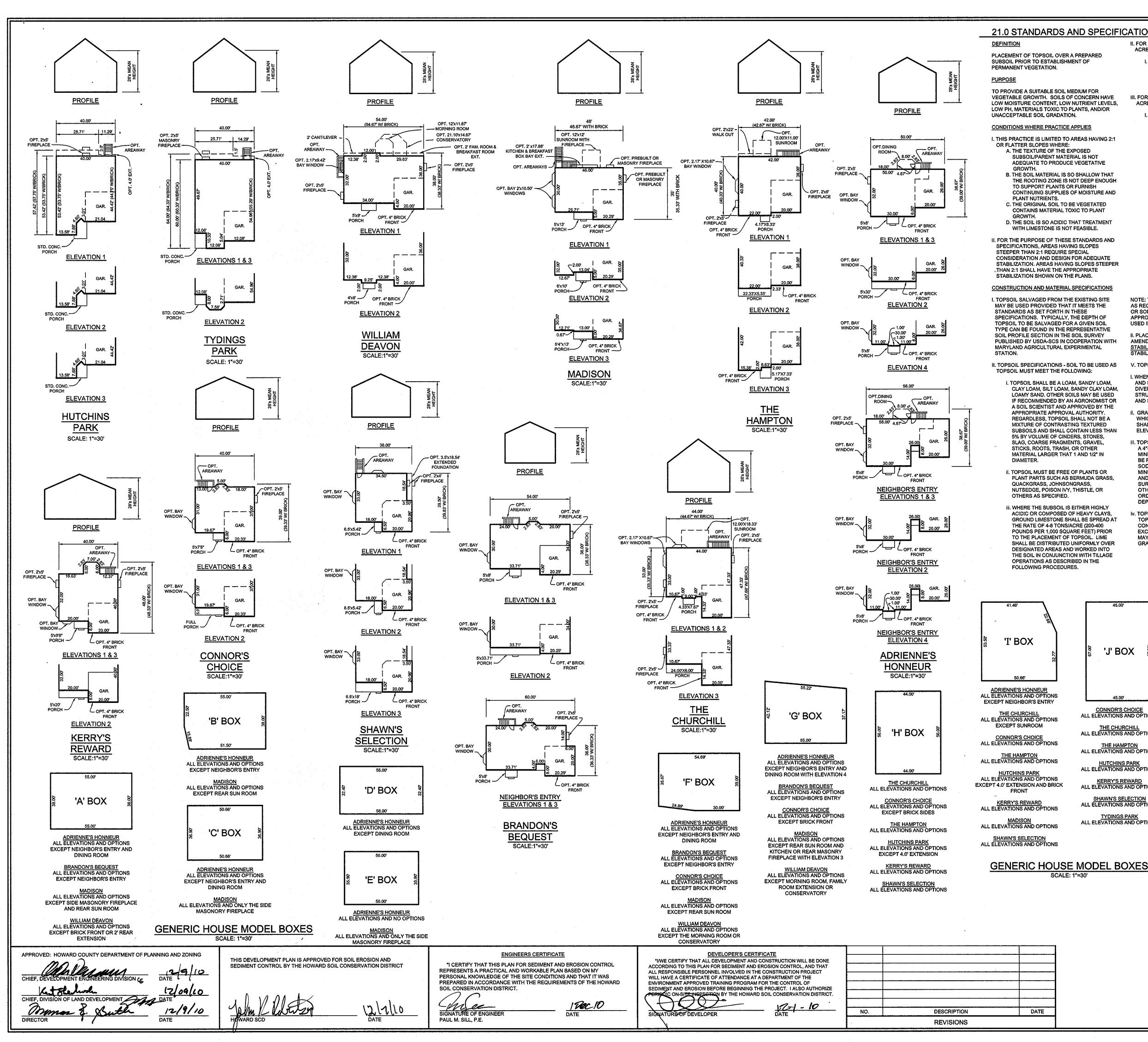




RTIFICATE MENT AND EROSION CONTROL BLE PLAN BASED ON MY ONDITIONS AND THAT IT WAS	DEVELOPER'S CERTIFICATE "IWE CERTIFY THAT ALL DEVELOPMENT AND CONSTRUCTION WILL BE DONE ACCORDING TO THIS PLAN FOR SEDIMENT AND EROSION CONTROL, AND THAT ALL RESPONSIBLE PERSONNEL INVOLVED IN THE CONSTRUCTION PROJECT WILL HAVE A CERTIFICATE OF ATTENDANCE AT A DEPARTMENT OF THE			
REQUIREMENTS OF THE HOWARD	ENVIRONMENT APPROVED TRAINING PROGRAM FOR THE CONTROL OF SEDIMENT AND EROSION BEFORE BEGINNING THE PROJECT. I ALSO AUTHORIZE PERIODIC CONSTRUCTION BY THE HOWARD SOIL CONSERVATION DISTRICT.			
DATE	SIGNATURE OF DEVELOPER <u>12-1-10</u> DATE	NO.	DESCRIPTION	DATE
DAIE	SIGNATORE OF DEVELOPER DATE		REVISIONS	

SOILS LEGEND	LEGEND
NAME / DESCRIPTION GROUP	EXISTING CONTOUR
LENELG LOAM, 3 TO 8 PERCENT SLOPES B G-BAILE SILT LOAMS, 0 TO 8 PERCENT SLOPES C SSAFRAS LOAM, 2 TO 5 PERCENT SLOPES B	EXISTING SPOT ELEVATION
SSAFRAS LOAM, 2 TO 5 PERCENT SLOPES	PROPOSED SPOT ELEVATION + 82 ⁵³ DIRECTION OF FLOW
	EXISTING TREELINE
	LIGHT POLES
	SILT FENCE SF SF SF SF
	SUPER SILT FENCE
:	
	SOIL BOUNDARY CHARGE CARD CARD CARD CARD CARD CARD CARD CARD
	DETAIL 33 - SUPER SILT FENCE
	NOTE: FENCE POST SPACING SHALL NOT EXCEED 10'
N 537,500	SHALL NOT EXCEED 10' CENTER TO CENTER
20	GROUND
1,353,650	GROUND SURFACE FLOW
	21/2" DIAMETER GALVANIZED CHAIN LINK FENCE
	OR ALUMINUM WITH 1 LAYER OF 8" MINIMUM POSTS FILTER CLOTH
	CHAIN LINK FENCING
	HINIMUM INTO GROUND IF MULTIPLE LAYERS ARE
ALL I	REQUIRED TO ATTAIN 42°
	CONSTRUCTION SPECIFICATIONS 1. FENCING SHALL BE 42" IN HEIGHT AND CONSTRUCTED IN ACCORDANCE WITH THE LATEST MARYLAND STATE HIGHWAY DETAILS FOR CHAIN LINK FENCING. THE SPECIFICATION FOR A 6' FENCE SHALL BE USED.
	STATE HIGHWAY DETAILS FOR CHAIN LINK FENCING. THE SPECIFICATION FOR A 6' FENCE SHALL BE USED, SUBSTITUTING 42" FABRIC AND 6' LENGTH POSTS. 2. CHAIN LINK FENCE SHALL BE FASTENED SECURELY TO THE FENCE POSTS WITH WIRE THES. THE LOWER
$\rightarrow \rightarrow $	TENSION WIRE, BRACE AND TRUSS RODS, DRIVE ANCHORS AND POST CAPS ARE NOT REQUIRED EXCEPT ON THE ENDS OF THE FENCE.
$-\Delta - (-\Delta - \Delta_n)$	3. FILTER CLOTH SHALL BE FASTENED SECURELY TO THE CHAIN LINK FENCE WITH TIES SPACED EVERY 24" AT THE TOP AND MID SECTION.
\mathcal{X}	4. FILTER CLOTH SHALL BE EMBEDDED A MINIMUM OF 8" INTO THE GROUND. 5. WHEN TWO SECTIONS OF FILTER CLOTH ADJOIN EACH OTHER, THEY SHALL BE OVERLAPPED BY 6" AND FOLDED.
W AND CONTRACTOR	6. MAINTENANCE SHALL BE PERFORMED AS NEEDED AND SILT BUILDUPS REMOVED WHEN "BULGES" DEVELOP IN THE SILT FENCE, OR WHEN SILT REACHES 50% OF FENCE HEIGHT
$\sum_{i=1}^{n} \sum_{j=1}^{n} \frac{1}{i_j} + \sum_{i=1}^{n} \frac{1}$	7. FILTER CLOTH SHALL BE FASTENED SECURELY TO EACH FENCE POST WITH WRE TIES OR STAPLES AT TOP AND MID SECTION AND SHALL MEET THE FOLLOWING REQUIREMENTS FOR GEOTEXTILE CLASS F:
	TENSILE STRENGTH 50 LBS/IN (MIN.) TEST: MSMT 509 TENSILE MODULUS 20 LBS/IN (MIN.) TEST: MSMT 509 FLOW RATE 0.3 GAL/FT /MIN. (MAX.) TEST: MSMT 322
	FILTERING EFFICIENCY 75% (MIN.) TEST: MSMT 322
	U.S. DEPARTMENT OF AGRICULTURE PAGE MARYLAND DEPARTMENT OF ENVIRONMENT SOIL CONSERVATION SERVICE H - 26 - 3 WATER MANAGEMENT ADMINISTRATION
	DETAIL 22 - SILT FENCE
	18" MINIMUM HEIGHT OF GEOTEXTILE CLASS F
	B" MINIMUM DEPTH IN GROUND
	FLOW FLOW
	PERSPECTIVE VIEW 36" MINIMUM FENCE POST LENGTH
	FILTER CLOTH
	TOP VIEW MINIMUM OF 8" VERTICALLY INTO THE GROUND THE GROUND
	POSITS CROSS SECTION B CROSS SECTION
	STAPLE STAPLE
	STAPLE * JOINING TWO ADJACENT SILT FENCE SECTIONS
GGB	Construction Specifications
	 Fence posts shall be a minimum of 36" long, driven 16" minimum into the ground. Wood posts shall be 1 1/2" x 1 1/2" square (minimum) cut, or 1-3/4" diameter (minimum) round and shall be of sound quality hardwood. Steet posts will be standard T or U section weighing not less than 1 00 nound our linear foot.
	less than 1.00 pound per linear foot.\ 2. Geotextile shall be fastened securely to each fence post with wire ties or staples at top and mid-section and shall meet the following requirements for Geotextile Class F: Tensile Strength 50 lbs/in (min.) Test: MSMT 509
84 56'51"W 4.39'	Tenslle Modulus 20 lbs/in (min.) Test: MSMT 509 Flow Rate 0.3 gal ft /minute (max.) Test: MSMT 322
	Filtening Eggeciency 75% (min.) Test: MSMT 322 Where ends of geotextile fabric come together, they shall be overlapped, folded and stapled to prevent sediment bypass. Sit Fence shall be inspected after each rainfall event and maintained when bulges occur or when sediment accumulation reaches 50% of the fabric height.
HOMEOWNER'S	U.S. DEPARTMENT OF AGRICULTURE PAGE MARYLAND DEPARTMENT OF ENVIRONMENT
ASSOCIATION	SOIL CONSERVATION SERVICE E - 15 - 3 WATER MANAGEMENT ADMINISTRATION
	OWNER DEVELOPER
	OWARD RESEARCH & DEVELOPMENT CORP. WILLIAMSBURG GROUP, LLC & EMERSON LAND BUSINESS TRUST C/O ROBERT CORBETT
EMERGEN / / ////////////////////////////////	10275 LITTLE PATUXENT PARKWAY 5485 HARPERS FARM ROAD, SUITE 200 COLUMBIA, MARYLAND 21044 COLUMBIA, MD 21044
	410.992.6000 410.997.8800
	SEDIMENT AND EROSION CONTROL PLAN
	AND DETAILS
	A THE
	THE GROVE AT EMERSON LOTS 1 THRU 7, 11 & 12 PHASE 1 AND LOTS 20 THRU 22 PHASE
	THE GROVE AT EMERSON LOTS 1 THRU 7, 11 & 12 PHASE 1 AND LOTS 20 THRU 22 PHASE SINGLE FAMILY DETACHED HOMES
Т	THE GROVE AT EMERSON LOTS 1 THRU 7, 11 & 12 PHASE 1 AND LOTS 20 THRU 22 PHASE
Т	THE GROVE AT EMERSON LOTS 1 THRU 7, 11 & 12 PHASE 1 AND LOTS 20 THRU 22 PHASE SINGLE FAMILY DETACHED HOMES AX MAP 47 GRID 8 TH ELECTION DISTRICT PARCE
Т	THE GROVE AT EMERSON LOTS 1 THRU 7, 11 & 12 PHASE 1 AND LOTS 20 THRU 22 PHASE SINGLE FAMILY DETACHED HOMES AX MAP 47 GRID 8 PARCE
Т	THE GROVE AT EMERSON LOTS 1 THRU 7, 11 & 12 PHASE 1 AND LOTS 20 THRU 22 PHASE SINGLE FAMILY DETACHED HOMES PARCE MARY SINGL FAMILY DETACHED HOMES PARCE MARY SINGL FAMILY DETACHED HOMES PARCE MARY SINGL FAMILY DETACHED HOMES PARCE HOWARD COUNTY, MARYLA DESIGN BY: PS
Т	THE GROVE AT EMERSON LOTS 1 THRU 7, 11 & 12 PHASE 1 AND LOTS 20 THRU 22 PHASE SINGLE FAMILY DETACHED HOMES SINGLE FAMILY DETACHED HOMES AX MAP 47 GRID 8 PARCE MARY SINGLE FAMILY DETACHED HOMES PARCE MARY SINGLE FAMILY DETACHED HOMES PARCE MARY SINGLE FAMILY DETACHED HOMES PARCE MARY MARY SINGLE FAMILY DETACHED HOMES PARCE HOWARD COUNTY, MARYLA MARY MARY SINGLE SILLO DESIGN BY:PS MARY MARY MARY SINGLE SIGN BY:PS MARY MARY MARY MARY MARY MARY
Т	THE GROVE AT EMERSON LOTS 1 THRU 7, 11 & 12 PHASE 1 AND LOTS 20 THRU 22 PHASE SINGLE FAMILY DETACHED HOMES NARCE HOWARD COUNTY, MARYLA NARCE HOWARD COUNTY, MARYLA Sill · Adcock & LLC MASY DESIGN BY: PS PS CALE: 1*=30° SON WORTH Ridge Road, Suite 160
Т	THE GROVE AT EMERSON LOTS 1 THRU 7, 11 & 12 PHASE 1 AND LOTS 20 THRU 22 PHASE SINGLE FAMILY DETACHED HOMES NARCE HOWARD COUNTY, MARYLA AX MAP 47 GRID 8 COUNTY, MARYLA MARY Sill · Adcock & DESIGN BY:PS DESIGN BY:PS DESIGN BY:PS CHECKED BY:PS CHECKED BY:PS CHECKED BY:PS DATE: NOVEMPER 30

SDP-11-008



21.0 STANDARDS AND SPECIFICATIONS FOR TOPSOILS

'J' BOX

CONNOR'S CHOICE ALL ELEVATIONS AND OPTIONS THE CHURCHILL ALL ELEVATIONS AND OPTIONS THE HAMPTON ALL ELEVATIONS AND OPTIONS HUTCHINS PARK ALL ELEVATIONS AND OPTIONS KERRY'S REWARD ALL ELEVATIONS AND OPTIONS SHAWN'S SELECTION ALL ELEVATIONS AND OPTIONS

TYDINGS PARK ALL ELEVATIONS AND OPTIONS

II. 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. III. FOR SITES HAVING DISTURBED AREAS OVER 5

ACRES: I. 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 TOPSOIL SHALL BE BETWEEN 6.0 AND 7.5. IF THE TESTED SOIL DEMONSTRATES A PH OF LESS THAN 6.0, SUFFICIENT LIME SHALL BE PRESCRIBED TO RAISE THE PH TO 6.5 OR HIGHER
- **B. ORGANIC CONTENT 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 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 TOPSOIL.

II. PLACE TOPSOIL (IF REQUIRED) AND APPLY SOIL AMENDMENTS A SPECIFIED IN 20.0 VEGETATIVE STABILIZATION - SECTION I - VEGETATIVE ABILIZATION METHODS AND MATERIALS.

- V. TOPSOIL APPLICATION
- I, 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.
- ii. GRADES ON THE AREAS TO BE TOPSOILED, WHICH HAVE BEEN PREVIOUSLY ESTABLISHED, SHALL BE MAINTAINED, ALBEIT 4"-8" HIGHER IN ELEVATION.
- III. TOPSOIL SHALL BE UNIFORMLY DISTRIBUTED IN A 4*-8" LAYER AND LIGHTLY COMPACTED TO A MINIMUM THICKNESS OF 4". SPREADING SHALL BE PERFORMED IN SUCH A MANNER THAT SODDING OR SEEDING CAN PROCEED WITH A MINIMUM OF ADDITIONAL SOIL PREPARATION AND TILLAGE. ANY IRREGULARITIES IN THE SURFACE RESULTING FROM TOPSOILING OF OTHER OPERATIONS SHALL BE CORRECTED IN ORDER TO PREVENT THE FORMATION OF DEPRESSIONS OR WATER POCKETS.
- IV. TOPSOIL SHALL NOT BE PLACED WHILE THE TOPSOIL OR SUBSOIL IS IN A FROZEN OR MUDDY CONDITION, WHEN THE SUBSOIL IS EXCESSIVELY WET OR IN A CONDITION THAT MAY OTHERWISE BE DETRIMENTAL TO PROPER GRADING AND SEEDBED PREPARATION

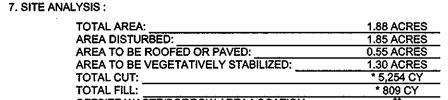
SEDIMENT CONTROL NOTES

HOWARD COUNTY SEDIMENT CONTROL INSPECTOR.

1. A MINIMUM OF 48 HOURS NOTICE MUST BE GIVEN TO THE HOWARD COUNTY DEPARTMENT OF INSPECTION, LICENSE AND PERMITS SEDIMENT CONTROL DIVISION PRIOR TO THE START OF ANY CONSTRUCTION (410-313-1855). 2. ALL VEGETATION AND STRUCTURAL PRACTICES ARE TO BE INSTALLED ACCORDING TO THE PROVISIONS OF THIS PLAN AND ARE TO BE IN CONFORMANCE WITH THE 1994 MARYLAND

STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL; AND REVISIONS 3. 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 7, HOWARD COUNTY DESIGN MANUAL, STORM DRAINAGE 5. ALL DISTURBED AREAS MUST BE STABILIZED WITHIN THE TIME PERIOD SPECIFIED ABOVE IN ACCORDANCE WITH THE 1994 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL FOR PERMANENT SEEDING, SOD, TEMPORARY SEEDING, AND MULCHING SEC. G). TEMPORARY STABILIZATION WITH MULCH ALONE SHALL 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



OFFSITE WASTE/BORROW AREA LOCATION 8. ANY SEDIMENT CONTROL PRACTICE WHICH IS DISTURBED BY GRADING ACTIVITY FOR PLACEMENT OF UTILITIES MUST BE REPAIRED ON THE SAME DAY OF DISTURBANCE. 9. ADDITIONAL SEDIMENT CONTROLS 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 SHALL BE BACK-FILLED AND STABILIZED WITHIN ONE WORKING DAY, WHICHEVER IS SHORTER.

* EARTHWORK QUANTITIES ARE SOLELY FOR THE PURPOSE OF CALCULATING FEES. CONTRACTOR TO VERIFY ALL QUANTITIES PRIOR TO THE START OF CONSTRUCTION. ** TO BE DETERMINED BY CONTRACTOR, WITH PRE-APPROVAL OF THE SEDIMENT CONTROL INSPECTOR WITH AN APPROVED AND ACTIVE GRADING PERMIT.

PERMANENT SEEDING NOTES

APPLY TO GRADED OR CLEARED AREAS NOT SUBJECT TO IMMEDIATE FURTHER DISTURBANCE WHERE A PERMANENT LONG-LIVED VEGETATIVE COVER IS NEEDED.

SEEDBED PREPARATION: LOOSEN UPPER THREE INCHES OF SOIL BY RAKING, DISCING 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 ACRE DOLOMITIC LIMESTONE (92 LBS/100 SQ.FT.) AND 600 LBS PER ACRE 10-10-10 FERTILIZER (14 LBS/1000 SQ.FT.) BEFORE SEEDING, HARROW OR DISC INTO UPPER THREE INCHES OF SOIL. AT THE 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 DOLOMATIC LIMESTONE (92 LBS/1000 SQ.FT.) AND APPLY 1000 LBS PER ACRE 10-10-10 FERTILIZER (23 LBS/1000 SQ.FT.) BEFORE SEEDING. HARROW OR DISC. INTO UPPER THREE INCHES OF SOIL.

SEEDING: FOR THE PERIODS MARCH 1 THRU APRIL 30, 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 JULY 31 SEED WITH 60 LBS KENTUCKY 31 TALL FESCUE PER ACRE AND 2 LBS PER ACRE (0.05 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 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 TONS/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, USE 348 GALLONS PER ACRE (8 GAL/1000 SQ.FT.) FOR ANCHORING.

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

TEMPORARY SEEDING NOTES

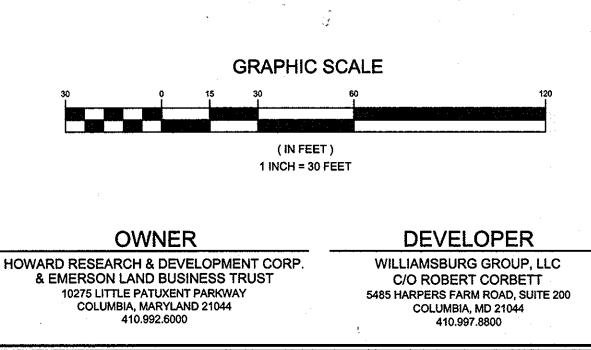
SEEDBED PREPARATION: LOOSEN UPPER THREE INCHES OF SOIL BY RAKING, DISCING OR OTHER ACCEPTABLE MEANS BEFORE SEEDING, IF NOT PREVIOUSLY LOOSENED.

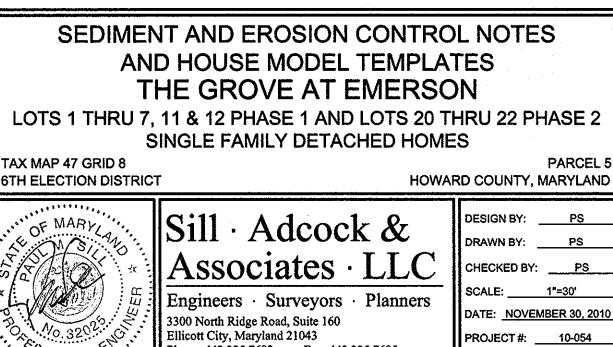
SOIL AMENDMENTS: APPLY 600 LBS PER ACRE 10-10-10 FERTILIZER (14 LBS/1000 SQ.FT).

SEEDING: FOR PERIODS MARCH 1 THRU APRIL 30 AND FROM AUGUST 15 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 AUGUST 14, SEED WITH 3 LBS PER ACRE OF WEEPING LOVEGRASS (0.07 LBS/1000 SQ.FT.). FOR THE PERIOD NOVEMBER 1 THRU FEBRUARY 28, PROTECT SITE BY APPLYING 2 TONS PER ACRE OF WELL ANCHORED 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 SMALL GRAIN STRAW IMMEDIATELY AFTER SEEDING. ANCHOR MULCH IMMEDIATELY AFTER APPLICATION USING MULCH ANCHORING TOOL OR 218 GALLONS PER ACRE (5 GAL/1000 SQ.FT.) OF EMULSIFIED ASPHALT ON FLAT AREAS. ON SLOPES 8 FEET OR HIGHER, USE 348 GALLONS PER ACRE (8 GAL/1000 SQ.FT.) FOR ANCHORING.

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





Phone: 443.325.7682 Fax: 443.325.7685

ROFESSIONAL CERTIFICATION: I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY

LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND, LICENSE NO. 32025, EXPIRATION DATE: JUNE 20, 2011

mail: info@saaland.com

SHEET #: 3 of 3

'K' BOX 45.00 CONNOR'S CHOICE ALL ELEVATIONS AND OPTIONS THE HAMPTON ALL ELEVATIONS AND OPTIONS EXCEPT SUNROOM SHAWN'S SELECTION ALL ELEVATIONS AND OPTIONS