GENERAL NOTES 1. ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE LATEST STANDARDS AND SPECIFICATIONS OF HOWARD COUNTY PLUS MDSHA STANDARDS AND SPECIFICATIONS, IF APPLICABLE. 2. THE CONTRACTOR SHALL NOTIFY "MISS UTILITY" AT 1-800-257-7777 AT LEAST 48 HOURS PRIOR TO ANY EXCAVATION 3. THE CONTRACTOR IS TO NOTIFY THE FOLLOWING UTILITIES OR AGENCIES AT LEAST FIVE DAYS BEFORE STARTING WORK ON THESE DRAWINGS: 1-800-257-7777 MISS UTILITY VERIZON TELEPHONE COMPANY: 1-800-743-0033 410-313-4900 BUREAU OF UTILITIES: 1-800-252-1133 AT&T CABLE LOCATION DIVISION: 410-637-8713 B.G.&E. CO. CONTRACTION SERVICES: B.G.&E. CO. (EMERGENCY): 410-685-0123 STATE HIGHWAY ADMINISTRATION 410-795-1390 COLONIAL PIPELINE CO: 1. LOCATION: ELKRIDGE, MD.; TAX MAP 38, BLOCK 3, PARCEL 437 SUBDIVISION: SOUTH POINT PHASE 1 & 2 DEED REFERENCE: L. 9010/F. 628 SECTION/AREA: 3 ELECTION DISTRICT: 1ST

DPZ REFERENCES: S-05-09, WP-05-131, P-10-01, F-10-054 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 TO START OF WORK. 5. ANY DAMAGE TO PUBLIC RIGHT-OF-WAYS, PAVING, OR EXISTING UTILITIES WILL BE CORRECTED AT THE CONTRACTOR'S EXPENSE. 7. EXISTING UTILITIES LOCATED FROM ROAD CONSTRUCTION PLANS, FIELD SURVEYS, PUBLIC WATER AND SEWER EXTENSION PLANS AND AVAILABLE RECORD DRAWINGS. APPROXIMATE LOCATION OF 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 CONTRACTOR'S OPERATION SHALL BE REPAIRED IMMEDIATELY AT THE CONTRACTOR'S EXPENSE. ESTIMATES OF EARTHWORK QUANTITIES ARE PROVIDED SOLELY FOR THE PURPOSE OF CALCULATING FEES. 9. SOIL COMPACTION SPECIFICATIONS, REQUIREMENTS, METHODS AND MATERIALS ARE TO BE IN ACCORDANCE WITH THE RECOMMENDATIONS OF THE PROJECT GEOTECHNICAL ENGINEER. GEOTECHNICAL ENGINEER TO CONFIRM ACCEPTABILITY

OF PROPOSED PAVING SECTION, BASED ON SOIL TEST PRIOR TO CONSTRUCTION. 10. THE TOPOGRAPHY SHOWN HEREON IS BASED ON A TOPOGRAPHICAL SURVEY PREPARED BY ROBERT H. VOGEL ENGINEERING, INC., DATED DECEMBER 2004. 11. PUBLIC WATER AND SEWER ARE AVAILABLE THROUGH CONTRACT NO. 14-4638-D 12. STORMWATER MANAGEMENT HAS BEEN PROVIDED UNDER F--10--054, WOV AND Rev ARE

PROVIDED BY 2 BIORETENTION FACILITIES AND 2 RAINGARDENS. THE BIORETENTION FACILITIES

ARE LOCATED ON HOA OPEN SPACE LOT 8 AND ARE TO BE PRIVATELY OWNED. 13. A PRIVATE RANGE OF ADDRESS SIGN ASSEMBLY SHALL BE FABRICATED AND INSTALLED BY HOWARD COUNTY BUREAU OF HIGHWAYS AT THE DEVELOPERS/OWNERS EXPENSE. CONTACT HOWARD COUNTY TRAFFIC DIVISION AT 410-313-5752 FOR

14. ANY EXISTING STREET TREES DAMAGED OR DESTROYED DURING CONSTRUCTION WILL BE REPLACED BY THE CONTRACTOR. 15. SIMPLE FOREST STAND DELINEATION PLAN PREPARED BY ECO-SCIENCE PROFESSIONALS. INC., DATED JANUARY 2005. FOREST CONSERVATION REQUIREMENTS ARE COMPLIED WITH PER SECTION 16.1202 OF THE HOWARD COUNTY CODE UNDER F-10-054. THE FOREST CONSERVATION OBLIGATIONS FOR THE REQUIRED 0.47 AC. HAVE BEEN PROVIDED BY ONSITE AFFORESTATION OF 0.47 AC. FINANCIAL SURETY

IN THE AMOUNT OF \$10,237.00 (20,473.20 SF x 0.50) HAS BEEN POSTED WITH THE DEVELOPER'S AGREEMENT UNDER F-10-054. 16. THIS PLAN IS SUBJECT TO THE AMENDED FIFTH EDITION OF THE SUBDIVISION AND LAND DEVELOPMENT REGULATIONS. DEVELOPMENT OR CONSTRUCTION OF THESE LOTS MUST COMPLY WITH SETBACK AND BUFFER REGULATIONS IN EFFECT AT THE TIME OF SUBMISSION OF THE SITE DEVELOPMENT PLAN, WAIVER PETITION APPLICATION OR

BUILDING/GRADING PERMIT APPLICATIONS. 17. BASED ON A FIELD INVESTIGATION BY ECO-SCIENCE PROFESSIONALS, INC. DATED JANUARY, 2005 THERE ARE NO WETLANDS OR STREAMS LOCATED ON-SITE.

18. NO 100-YR FLOODPLAIN IS LOCATED ON-SITE.

AREA OF PARCEL: 3.09 AC.

AREA OF PLAN SUBMISSION: 3.09 AC.

LIMIT OF DISTURBED AREA: 1.54 AC.

PRESENT ZONING: R-12
AREA OF PROPOSED RESIDENTIAL LOTS (SFD): 2.07 AC.

19. THE SUBJECT PROPERTY IS ZONED R-12 PER THE 02/02/04 COMPREHENSIVE ZONING PLAN AND THE COMP LITE ZONING REGULATION AMENDMENTS EFFECTIVE ON 07/28/06.

20. TWO GRAVE SITES EXIST ON NON-BUILDABLE PARCEL A CEMETERY PRESERVATION AREA. THE ACCOMMODATION OF THE ACCESS TO THE CEMETERY ON PARCEL A WAS APPROVED BY THE PLANNING BOARD ON SEPTEMBER 2, 2010 ASSOCIATED WITH F-10-054 & SDP-10-092. 21. FOR DRIVEWAY ENTRANCE DETAILS REFER TO THE HOWARD COUNTY DESIGN MANUAL, VOLUME IV, STANDARD DETAIL R-6.06.

22. THE COORDINATES SHOWN HEREON ARE BASED UPON THE HOWARD COUNTY GEODETIC CONTROL WHICH ARE BASED UPON THE MARYLAND STATE PLANE COORDINATE SYSTEM. HOWARD COUNTY MONUMENT NOS. 38AA AND 38BA WERE USED FOR THIS PROJECT.

23. DRIVEWAYS SHALL BE PROVIDED PRIOR TO ISSUANCE OF A USE AND OCCUPANCY PERMIT FOR ANY NEW DWELLINGS TO INSURE SAFE ACCESS FOR FIRE EMERGENCY VEHICLES PER THE FOLLOWING MINIMUM REQUIREMENTS: A. WIDTH - 12' (16' FOR SERVING MORE THAN ONE RESIDENCE) B. SURFACE - 6" OF COMPACTED CRUSHER RUN BASE WITH TAR AND CHIP COATING (1-1/2" MIN)

C. GEOMETRY — MAX 15% GRADE, MAX 10% GRADE CHANGE, AND MIN 45' TURNING RADIUS D. STRUCTURES (CULVERTS/BRIDGES) - CAPABLE OF SUPPORTING 25 GROSS TONS (H25 LOADING) . DRAINAGE ELEMENTS — CAPABLE OF SAFELY PASSING 100-YEAR FLOOD WITH NO MORE THAN I FOOT OF DEPTH OVER DRIVEWAY SURFACE

F. MAINTENANCE - SUFFICIENT TO ENSURE ALL WEATHER USE 24. 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 25. NO GRADING, REMOVAL OF VEGETATIVE COVER OR TREES, OR PLACEMENT AND PAVING OF NEW STRUCTURES IS

PERMITTED WITHIN THE LIMITS OF WETLANDS, WETLAND BUFFERS, STREAM, STREAM BUFFERS OR FOREST CONSERVATION

26. A NOISE STUDY IS NOT REQUIRED FOR THIS SITE.

27. ALL LANDSCAPING REQUIREMENTS AS SET FORTH IN SECTION 16.124 OF THE HOWARD COUNTY SUBDIVISION REGULATIONS AND THE LANDSCAPE MANUAL ARE BY COMPLIED WITH UNDER F-10-054. THIS PLAN HAS BEEN PREPARED IN ACCORDANCE WITH SECTION 16.124 OF THE HOWARD COUNTY CODE AND THE LANDSCAPE MANUAL. LANDSCAPE SURETY IN THE AMOUNT OF \$17,250.00 FOR THE REQUIRED 30 SHADE TREES, 53 EVERGREEN TREES AND 10 SHRUBS HAS BEEN PROVIDED WITH THE DEVELOPER'S AGREEMENT UNDER F-10-054.

28. A USE-IN-COMMON DRIVEWAY MAINTENANCE AGREEMENT FOR LOTS 1-7, LOT 9, NON-BUILDABLE PARCEL A CEMETERY PRESERVATION AREA, TM 38/PARCEL 889, AND STORMWATER MANAGEMENT ACCESS EASEMENT HAS BEEN RECORDED IN THE LAND RECORDS OF HOWARD COUNTY AND RECORDED CONCURRENTLY WITH THE PLAT.

29. SHC ELEVATIONS SHOWN ON SHEET 4.

30. ALL NECESSARY WATER METERS SHALL BE LOCATED WITHIN THE HOUSE.

31. THIS SITE IS LOCATED WITHIN THE BWI FOUR MILE HEIGHT RESTRICTION ZONE REQUIRING APPROVAL FROM THE MARYLAND AVIATION ADMINISTRATION FOR NEW HOUSE CONSTRUCTION AND FOR

32. THIS PROJECT IS PHASED BASED ON HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING LETTER DATED JULY (2009. PHASE I ALLOCATIONS ARE AVAILABLE FOR 6 UNITS FOR YEAR 2012, ONE ALLOCATION FOR PHASE II YEAR 2013.

33. THIS PROPERTY IS LOCATED WITHIN THE OLD WASHINGTON ROAD HISTORIC SURVEY DISTRICT, HO-803.

34. THIS SUBDIVISION PLAN WAS PRESENTED TO THE HISTORIC DISTRICT COMMISSION ON APRIL 7, 2005.

36. THIS PROPERTY IS SUBJECT TO WP-05-131 FOR A WAIVER FROM SECTION 16.120(b)(4)(iv) WHICH REQUIRES THAT RESIDENTIAL LOTS NOT BE ENCUMBERED BY ACCESS EASEMENTS STORMWATER MANAGEMENT FACILITIES OR OPEN SPACE, EXCEPT PER SECTION 16.121(e) OF THE SUBDIVISION REGULATIONS TO ALLOW SWM ACCESS FOR OPEN SPACE LOT 8 BY WAY OF THE PROPOSED USE—IN—COMMON DRIVEWAY EASEMENTS FOR LOTS 1-7, AND LOT 9.

THE 6/27/05 APPROVAL IS SUBJECT TO THE FOLLOWING CONDITIONS: 1. THE DEVELOPER SHALL INSTALL BOLLARD MARKERS OR SOME OTHER FORM OF SIGNS ALONG THE USE—IN—COMMON DRIVEWAY ACCESS EASEMENT FOR LOTS 1 THRU 7, 9, AND NON—BUILDABLE PARCEL A CEMETERY PRESERVATION AREA, AND PARCEL 889. 'ANY PROPERTY DAMAGE INCURRED BY THE INSPECTION OR MAINTENANCE OF THE OPEN SPACE LOT OR SWMF IS TO BE REPAIRED BY THE HOA.' 2. COMPLIANCE WITH COMMENTS DATED JUNE 23, 2005 FROM THE DEVELOPMENT

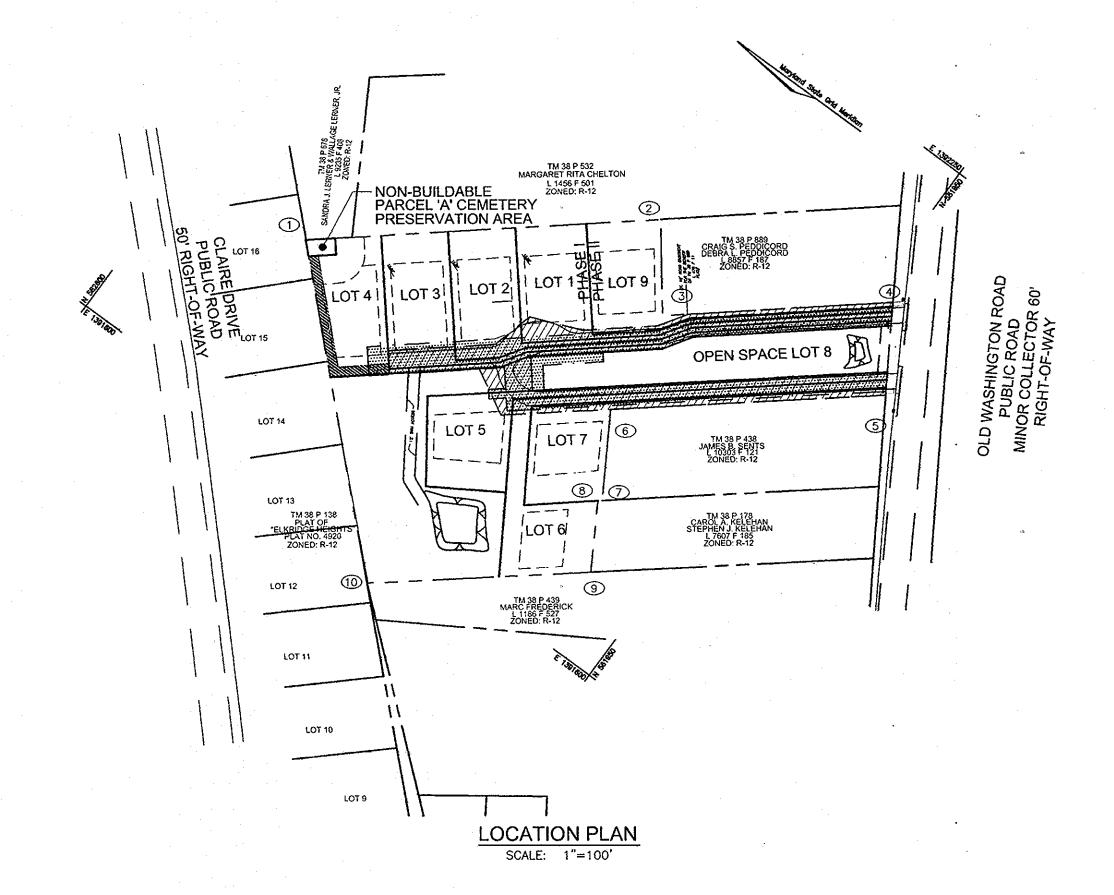
37. NO GRADING OR CONSTRUCTION SHALL BE PERMITTED WITHIN 30 FEET OF A CEMETERY BOUNDARY OR WITHIN

10 FEET OF INDIVIDUAL GRAVE SITES. 38. TRASH AND RECYCLING WILL BE PROVIDED AT OLD WASHINGTON ROAD WITHIN 5' OF THE COUNTY ROADWAY.

39. A SITE INSPECTION ON THE PROPERTY WAS COMPLETED ON APRIL 12, 2005 BY THE OWNER OF THE PROPERTY AND TO THE BEST OF THEIR KNOWLEDGE THERE IS NO EVIDENCE THAT THE WELL AND SEPTIC EXISTS. IT IS LIKELY THAT THEY WERE PROPERLY ABANDONED AND SEALED AND IF ENCOUNTERED DURING THE DEMOLITION PROCESS, THEY WILL BE PROPERLY ABANDONED/SEALED AND THE HOWARD COUNTY HEALTH DEPARTMENT

SITE DEVELOPMENT PLAN SOUTH POINT PHASE I & 2

LOTS 1-7, AND LOT 9 HOWARD COUNTY, MARYLAND



M	IINIMUM L	OT SIZE	CHART
LOT NO.	GROSS AREA	PIPE STEM AREA	MINIMUM LOT SIZE
1	10,394 ø	1,508 ø	8,886 ø
2	11,155 ø	1,863 ø	9,292 ø
3 .	11,864 ø	2,200 ø	9,664 ø
4	12,138 ø	2,530 ø	9,608 ø
5	11,741 ø	3,119 ø	8,622 ø
6	12,245 0	3,8400	89.09 \$
7	10,7850	2,296 ø	8489 0
9	9,959 ø	1,270 ø	8,689 ø

COORDINATE CHART				
NO.	NORTH	EAST		
1	562456.63	1391791.11		
2	562171.85	1392027.19		
3	562111.07	1391947.61		
4	561926.36	1392100.83		
5	5618875.13	1392018.34		
6	562096.54	1391836.75		
7	562047.39	1391754.87		
8	562050.75	1391752.13		
9	562012.62	1391687.47		
10	562193.07	1391540.27		
	t			

SITE DATA LOCATION: TAX MAP 38, BLOCK 3, PARCEL 437 EXISTING ZONING: R-12 GROSS AREA OF PARCEL: 3.09 AC. AREA OF PROPOSED RIGHT-OF-WAY: N/A AREA OF 100-YR FLOODPLAIN: N/A AREA OF STEEP SLOPES: N/A NET AREA OF PROJECT: 3.09 AC. PROPOSED USE: SINGLE FAMILY DETACHED NUMBER OF PROPOSED RESIDENTIAL LOTS: 8 (W/ AREA OF PROPOSED RESIDENTIAL LOTS: 2.07 AC.

AREA OF NON-BUILDABLE PARCEL: 0.01 AC. AREA OF SMALLEST BUILDABLE LOT PROPOSED (WITHOUT AREA OF PIPESTEM): 8,438 SQUARE FEET - LOT NUMBER OF PROPOSED OPEN SPACE LOTS: 1 (LOT 8) AREA OF OPEN SPACE REQUIRED: 0.93 AC. (3.0952 x 30%) AREA OF CREDITED OPEN SPACE PROVIDED: 0.945 AC. AREA OF NON-CREDITED OPEN SPACE: 0.07 AC. TOTAL AREA OF OPEN SPACE PROVIDED: 1.0125 AC. AREA DISTURBED: 1.54 AC.

COORDINATE CHART					
NO.	NORTH	EAST			
1	562456.63	1391791.11			
2	562171.85	1392027.19			
3	562111.07	1391947.61			
4	561926.36	1392100.83			
5	5618875.13	1392018.34			
6	562096.54	1391836.75			
7	562047.39	1391754.87			
8	562050.75	1391752.13			
9	562012.62	1391687.47			
4.4	500407.07	4704540.07			

CID2 EX. EROSION CONTROL MATTING PER (F-10-054) SUPER SILT FENCE PER (F-10-054) LIMIT OF DISTURBANCE PER (F-10-054)

EX. EARTHDIKE PER (F-10-054)

PER (F-10-054)

EX. TREES

LEGEND

PROPERTY LINE

EXISTING CONTOUR

PROPOSED CONTOUR

EXISTING TREELINE

PROPOSED TREELINE

EX. UTILITY POLE

(AFFORESTATION)

10' PRIVATE CEMETERY

ACCESS EASEMENT

EX. RAIN GARDEN

PER (F-10-054)

SUPER SILT FENCE

LIMIT OF DISTURBANCE

ENTRANCE

STABILIZED CONSTRUCTION

EROSION CONTROL MATTING

PUBLIC WATER, SEWER

AND LITHLITY FASEMENT

& DRAINAGE EASEMENT

VARIABLE WIDTH PRIVATE

FOREST CONSERVATION AREA

EX. FENCE

----202----

____(202)____

~~~~

m

----X-----X----

ADC MAP: 1

VICINITY MAP

SCALE 1"=2000'

BENCHMARKS

ELEV.= 220.084

ELEV.= 166.184

ADC MAP COORDINATE: 4937 E7

38AA- N. 561158.817, E. 1389726.33

38BA- N. 562553.314, E. 1390967.86

CONC. MON. W/ STAMPED DISC SET

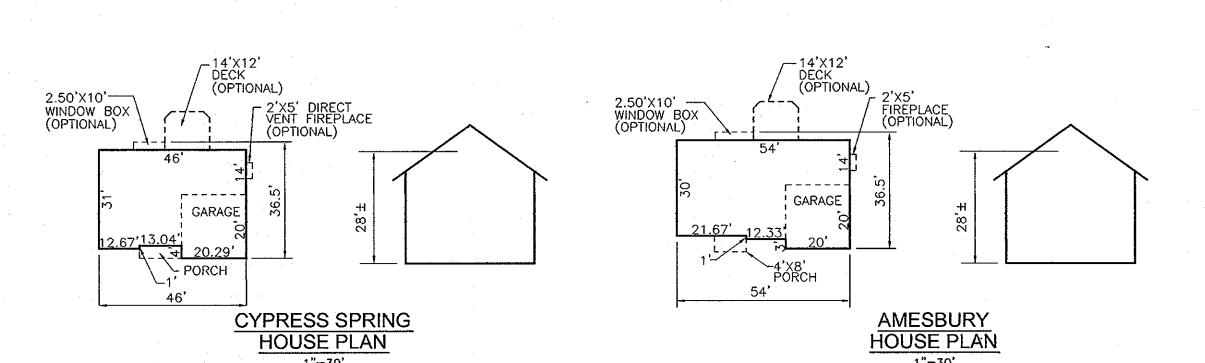
CONC. MON. W/ STAMPED DISC SET

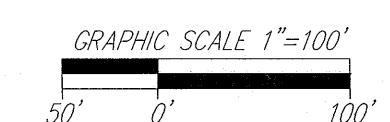
ALL EXISTING SEDIMENT AND EROSION CONTROL MEASURES, APPROVED UNDER F-10-054 ARE TO REMAIN.

| SHEET INDEX     |  |                                            |  |  |  |
|-----------------|--|--------------------------------------------|--|--|--|
| SHEET NO. TITLE |  |                                            |  |  |  |
| 1               |  | COVER SHEET                                |  |  |  |
| 2               |  | LAYOUT PLAN                                |  |  |  |
| 3               |  | GRADING, SEDIMENT AND EROSION CONTROL PLAN |  |  |  |
| 4               |  | SEDIMENT AND EROSION CONTROL DETAILS       |  |  |  |

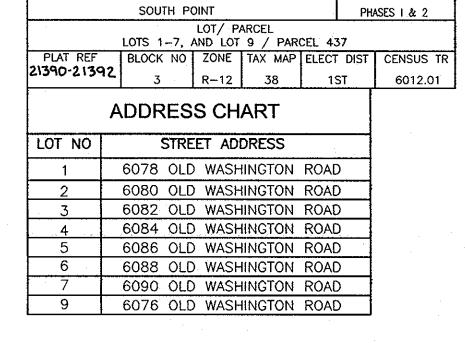
| APFO PHASING SCHEDULE |       |                                                                |                 |  |
|-----------------------|-------|----------------------------------------------------------------|-----------------|--|
| SUBDIVISION           | PHASE | NUMBER OF HOUSING UNITS/LOTS                                   | ALLOCATION YEAR |  |
| PHASE                 | 1     | 7 LOTS (6 GRANTED ALLOCATIONS +<br>1 CREDIT FOR EXISTING HOUSE | 2012            |  |
| PHASE                 | 2     | 1 LOT                                                          | 2013            |  |
| TOTAL                 |       | 8 LOTS                                                         |                 |  |

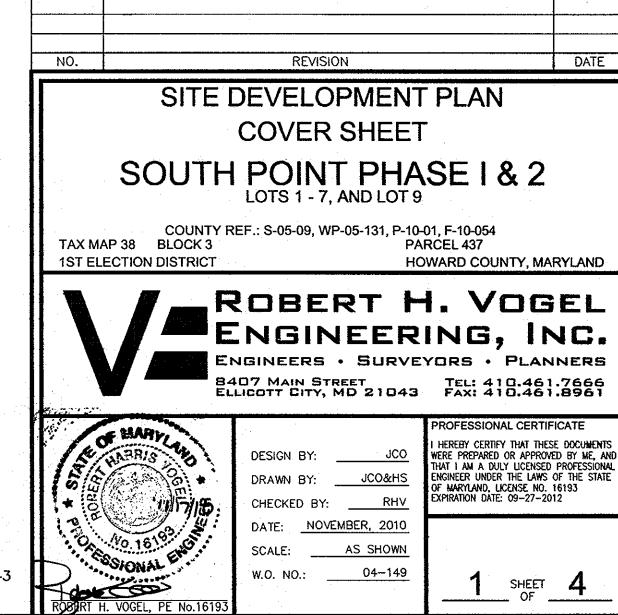
| Pl          | ERMIT      | INFOF   | RMATIC              | N CHAI                                | रा          |
|-------------|------------|---------|---------------------|---------------------------------------|-------------|
|             | SUBDIVISIO | N NAME  |                     | Р                                     | HASE/ AREA  |
|             | SOUTH      | POINT   |                     | P                                     | HASES 1 & 2 |
|             | LOTS 1-1   |         | PARCEL<br>T 9 / PAR | CEL 437                               |             |
| PLAT REF    | BLOCK N    | 10 ZONE | TAX MAP             | ELECT DIST                            | CENSUS TR   |
| 21390-21392 | 3          | R-12    | 38                  | 15T                                   | 6012.01     |
| LOT NO      | Sī         | REET AL | DRESS               | :                                     |             |
| LOT NO      | ST         | REET A  | DRESS               | · · · · · · · · · · · · · · · · · · · |             |
| 1           | 6078 0     | OLD WAS | HINGTON             | ROAD                                  | 1           |
| 2           |            |         | HINGTON             |                                       |             |
| 3           |            |         | HINGTON             |                                       |             |
| 4           | 6084 C     | LD WAS  | HINGTON             | ROAD                                  | 1           |
| 5           | 6086 C     | LD WAS  | HINGTON             | ROAD                                  | 1           |
| 6           | 6088 C     | LD WAS  | HINGTON             | ROAD                                  | 1           |
| 7           | 6090 C     | LD WAS  | HINGTON             | ROAD                                  | 1           |
| a           | 6076 0     | UD WAS  | HINICTON            | DOVD                                  | 1           |



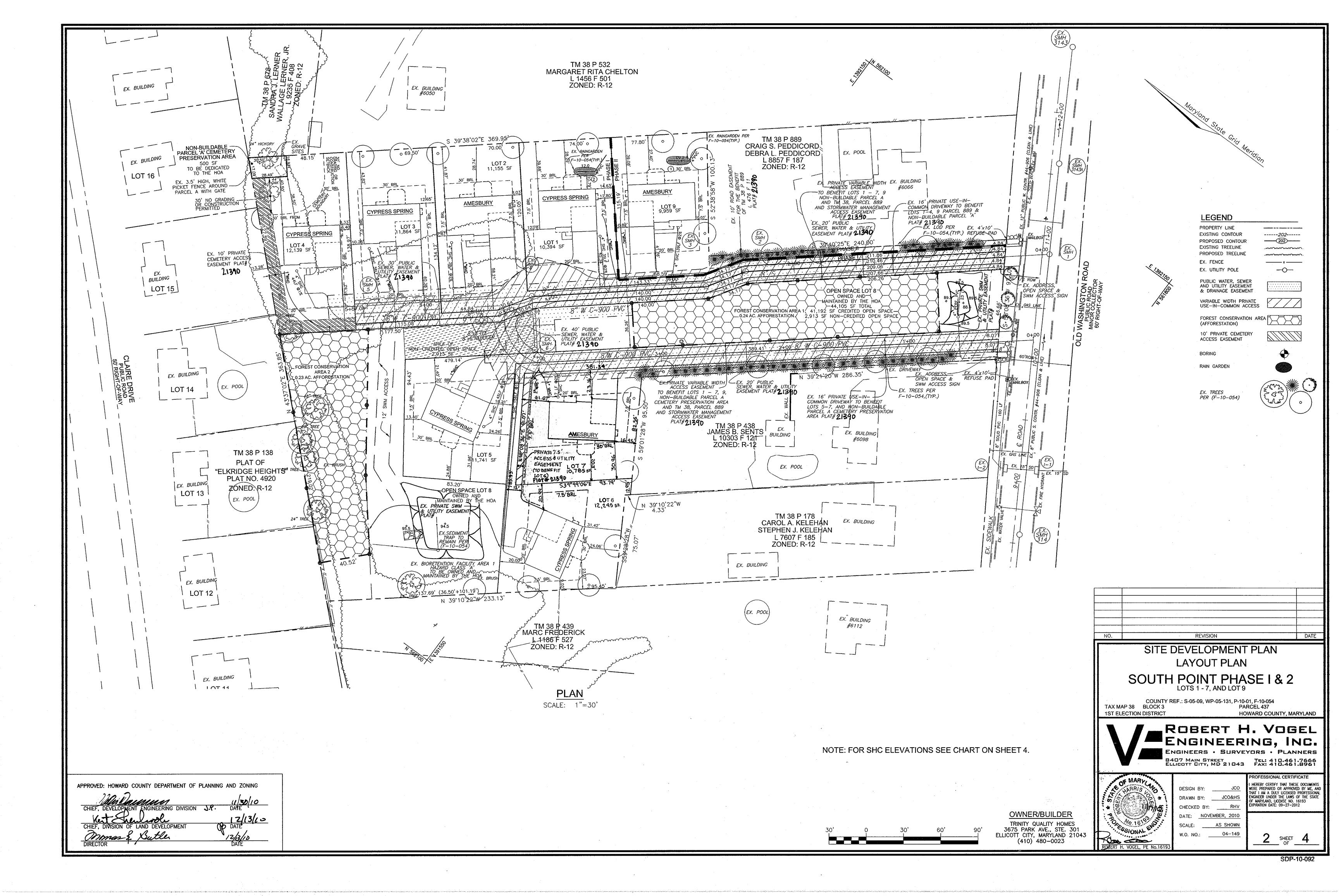


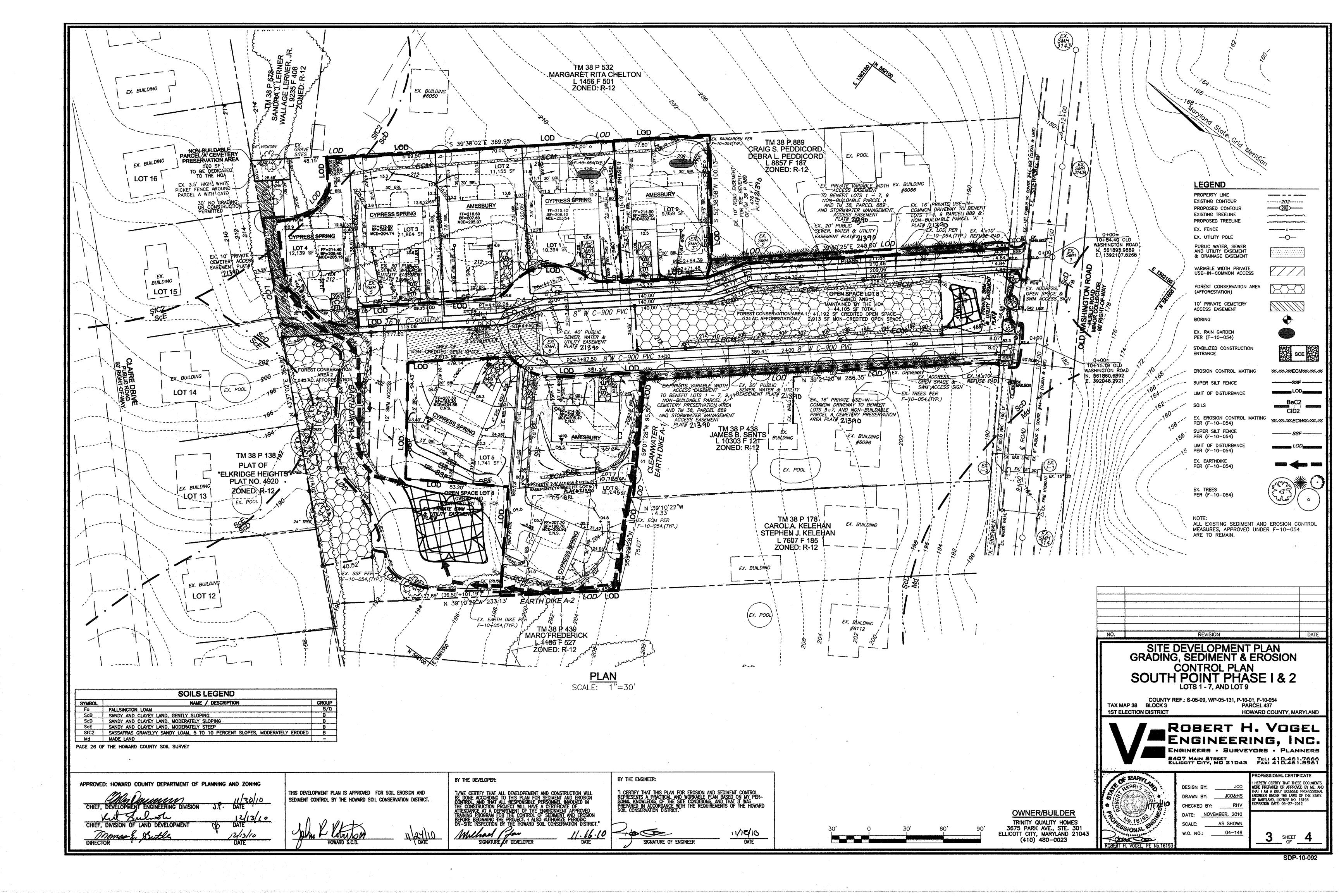
OWNER/BUILDER TRINITY QUALITY HOMES 3675 PARK AVE., STE. 301 ELLICOTT CITY, MARYLAND 21043 (410) 480-0023





APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING





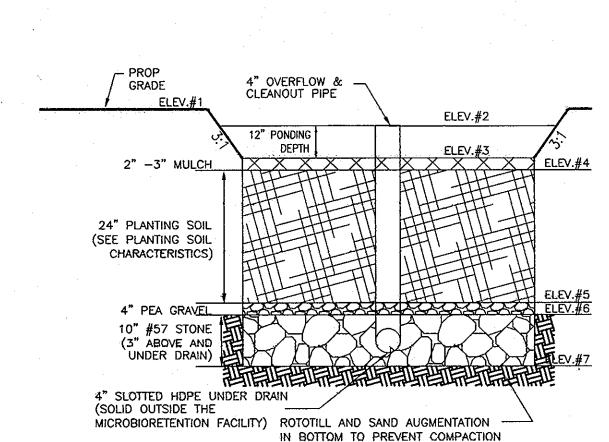
## A MINIMUM OF 49 HOURS NOTICE MUST BE GIVEN TO THE HOWARD COUNTY DEPT. III. FOR SITES HAVING DISTURBED AREAS OVER 5 ACRES: OF INSPECTION, LICENSE AND PERMITS SEDIMENT CONTROL DIVISION PRIOR TO THE START OF ANY CONSTRUCTION (313-1855). RESULTS DICTATING FERTILIZER AND LIME AMENDMENTS REQUIRED ALL VEGETATION AND STRUCTURAL PRACTICES ARE TO BE INSTALLED ACCORDING TO THE TO BRING THE SOIL INTO COMPLIANCE WITH THE FOLLOWING: PROVISIONS OF THIS PLAN AND ARE TO BE IN CONFORMANCE WITH THE 1994 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL. 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 CREATER THAN 3:1, (B) 14 DAYS AS TO ALL OTHER DISTURBED OR GRADED AREAS ON THE ALL SEDIMENT TRAPS/BASINS SHOWN MUST BE FENCED AND WARNING SIGNS POSTED AROUND THEIR PERIMETER IN ACCORDANCE WITH VOL. 1, CHAPTER 7, HOWARD COUNTY 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 NOTE: TOPSOIL SUBSTITUTES OR AMENDMENTS, AS RECOMMENDED AND MULCHING (SEC. G). TEMPORARY STABILIZATION WITH MULCH ALONE SHALL BE DONE BY A QUALIFIED AGRONOMIST OR SOIL SCIENTIST AND APPROVED BY WHEN RECOMMENDED SEEDING DATES DO NOT ALLOW FOR PROPER GERMINATION AND THE APPROPRIATE APPROVAL AUTHORITY, MAY BE USED IN LIEU OF ESTABLISHMENT OF GRASSES. NATURAL TOPSOIL 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. II. PLACE TOPSOIL (IF REQUIRED) AND APPLY SOIL AMENDMENTS SPECIFIED IN 20.0 VEGETATIVE STABILIZATION—SECTION I-VEGETATIVE STABILIZATION METHODS AND MATERIALS. SITE ANALYSIS V. TOPSOIL APPLICATION SEDIMENT CONTROL PRACTICES SUCH AS DIVERSIONS, GRADE STABILIZATION STRUCTURES, EARTH DIKES, SLOPE SILT FENCE AND AREA TO BE ROOFED OR PAVE AREA TO BE VEGETATIVELY STABILIZE OFFSITE WASTE/BORROW AREA LOCATION BEEN PREVIOUSLY ESTABLISHED, SHALL BE MAINTAINED, ALBEIT 4" - 8" HIGHER IN ELEVATION. ANY SEDIMENT CONTROL PRACTICE WHICH IS DISTURBED BY GRADING ACTIVITY FOR PLACEMENT OF UTILITIES MUST BE REPAIRED ON THE SAME DAY OF DISTURBANCE. 8" LAYER AND LIGHTLY COMPACTED TO A MINIMUM THICKNESS OF 4". SPREADING SHALL BE PERFORMED IN SUCH A MANNER THAT SODDING ADDITIONAL SEDIMENT CONTROLS MUST BE PROVIDED, IF DEEMED NECESSARY BY OR SEEDING CAN PROCEED WITH A MINIMUM OF ADDITIONAL SOIL THE HOWARD COUNTY SEDIMENT CONTROL INSPECTOR. REPARATION AND TILLAGE. ANY IRREGULARITIES IN THE SURFACE RESULTING FROM TOPSOILING OR OTHER OPERATIONS SHALL BE ON ALL SITES WITH DISTURBED AREAS IN EXCESS OF 2 ACRES, APPROVAL OF CORRECTED IN ORDER TO PREVENT THE FORMATION OF DEPRESSIONS THE INSPECTION AGENCY SHALL BE REQUESTED UPON COMPLETION OF INSTALLATION OR WATER POCKETS. OF PERIMETER EROSION AND SEDIMENT CONTROLS, BUT BEFORE PROCEEDING WITH ANY OTHER EARTH DISTURBANCE OR GRADING. OTHER BUILDING OR GRADING SUBSOIL IS IN A FROZEN OR MUDDY CONDITION, WHEN THE SUBSOIL THE INSPECTION AGENCY IS MADE. IS EXCESSIVELY WET OR IN A CONDITION THAT MAY OTHERWISE BE DETRIMENTAL TO PROPER GRADING AND SEEDBED PREPARATION. 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. . TO BE DETERMINED BY CONTRACTOR, WITH PRE-APPROVAL OF THE SEDIMENT CONSTRUCTION AND MATERIAL SPECIFICATIONS TOPSOIL SALVAGED FROM THE EXISTING SITE MAY BE USED SPECIFICATIONS. TYPICALLY, THE DEPTH OF TOPSOIL TO BE 3. NO CONSTRUCTION ACTIVITY IS PERMITTED WITHIN THE SOIL SALVAGED FOR A GIVEN SOIL TYPE CAN BE FOUND IN THE REPRESENTATIVE SOIL PROFILE SECTION IN THE SOIL SURVEY 4. IF SOIL HAS BEEN COMPACTED OR GRADING HAS TAKEN PUBLISHED BY USDA-SCS IN COOPERATION WITH MARYLAND AGRICULTURAL EXPERIMENTAL STATION. II. TOPSOIL SPECIFICATIONS - SOIL TO BE USED AS TOPSOIL MUST MEET THE FOLLOWING: 5. ROOT PRUNING SHALL OCCUR PRIOR TO THE BEGINNING OF I. 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 A SOIL SCIENTIST AND APPROVED BY THE APPROPRIATE APPROVAL AUTHORITY. REGARDLESS, TOPSOIL SHALL NOT BE A MIXTURE OF CONTRASTING TEXTURED 7. PRIOR TO CONSTRUCTION, THE LIMITS OF DISTURBANCE SHALL BE MARKED AND THE DETERMINE WHICH TREES WILL NEED SUBSOILS AND SHALL CONTAIN LESS THAN 5% BY VOLUME O CINDERS, STONES, SLAG, COARSE FRAGMENTS, GRAVEL, STICKS, ROOTS, TRASH, OR OTHER MATERIALS LARGER THAT 1 AND 1/2" IN II. TOPSOIL MUST BE FREE OF PLANTS OR PLANT PARTS SUCH AS BERMUDA GRASS, QUACKGRASS, JOHNSONGRASS, NUTSEDGE, POISON IVY. THISTLE, OR OTHERS AS SPECIFIED. III. 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 APPLY TO GRADED OR CLEARED AREAS NOT SUBJECT TO IMMEDIATE IN THE FOLLOWING PROCEDURES. FURTHER DISTURBANCE WHERE A PERMANENT LONG-LIVED VEGETATIVE COVER IS NEEDED. II. FOR SITES HAVING DISTURBED AREAS UNDER 5 ACRES: PLACE TOPSOIL (IF REQUIRED) AND APPLY SOIL SEEDBED PREPARATION: LOOSEN UPPER THREE INCHES OF SOIL BY RAKING, DISCING OR OTHER ACCEPTABLE MEANS BEFORE SEEDING, IF NOT PREVIOUSLY AMENDMENTS AS SPECIFIED IN 20.0 VEGETATIVE STABILIZATION SECTION 1 - VEGETATIVE STABILIZATION METHODS AND MATERIALS. DEFINITION SOIL AMENDMENTS: IN LIEU OF SOIL TEST RECOMMENDATIONS, USE ONE OF THE FOLLOWING SCHEDULES: PLACEMENT OF TOPSOIL OVER A PREPARED SUBSOIL PRIOR TO ESTABLISHMENT OF PERMANENT VEGETATION. **PURPOSE** TO PROVIDE A SUITABLE SOIL MEDIUM FOR VEGETABLE 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 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 (.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 WELL ANCHORED STRAW MULCH WITH 2 TONS/ACRE WELL ANCHORED 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 GROWTH. 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. KENTUCKY 31 TALL FESCUE AND MULCH WITH 2 TONS/ACRE WELL ANCHORED 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. 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. I. FOR THE PURPOSE OF THESE STANDARDS AND SPECIFICATIONS, MAINTENANCE: INSPECT ALL SEEDED AREAS AND MAKE NEEDED REPAIRS, AREAS HAVING SLOPES STEEPER THAN 2:1 REQUIRE SPECIAL CONSIDERATION AND DESIGN FOR ADEQUATE STABILIZATION. AREAS REPLACEMENTS AND RESEEDINGS. HAVING SLOPES STEEPER THAN 2:1 SHALL HAVE THE APPROPRIATE TEMPORARY SEEDING NOTES STABILIZATION SHOWN ON THE PLANS. SEEDBED PREPARATION: LOOSEN UPPER THREE INCHES OF SOIL BY RAKING, DISCING OR OTHER ACCEPTABLE MEANS BEFORE SEEDING, IF NOT PREVIOUSLY 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 (.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

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING

CHIEF, DEVELOPMENT ENGINEERING DIVISION

DIVISION OF LAND DEVELOPMENT

SEDIMENT CONTROL NOTES



DETAIL - MICROBIORETENTION/RAIN GARDEN NOT TO SCALE

| RAIN GARDEN PLANT LIST (F-10-054) |                           |                         |                  |  |  |
|-----------------------------------|---------------------------|-------------------------|------------------|--|--|
| QUANTITY                          | BOTANICAL NAME            | COMMON NAME             | SIZE             |  |  |
| 1                                 | PLATANUS X ACERIFOLIA(PA) | LONDON PLANE TREE       | 2 1/2"-3" Cal.   |  |  |
| 1                                 | ILEX GLABRA(IG)           | INK BERRY               | 2 '-3' HT.       |  |  |
| 6                                 | LOBELEA CARDINALIS(LC)    | CARDINAL FLOWER LOBELIA | 1 GAL. CONTAINER |  |  |
| 4                                 | DRYOPTERIS SP.(DS)        | WOOD FERN               | 1 GAL. CONTAINER |  |  |
| 3                                 | ASTER NOVAE-ANGLIAE(AN)   | NEW ENGLAND ASTER       | 1 GAL. CONTAINER |  |  |

## SEQUENCE OF CONSTRUCTION

1 ORTAIN GRADING PERMIT 2. NOTIFY HOWARD COUNTY BUREAU OF INSPECTIONS AND PERMITS (410-313-1880) AT LEAST 24 HOURS

BEFORE STARTING ANY WORK. 3. INSTALL SEDIMENT CONTROL MEASURES AS SHOWN ON PLAN AND IN ACCORDANCE WITH DETAILS.

4. INSPECT SEDIMENT CONTROL MEASURES FROM F-10-054 TO REMAIN PER SDP. REPAIR AS NEEDED. 5. AFTER OBTAINING PERMISSION FROM THE SEDIMENT CONTROL

INSPECTOR TO PROCEED, ROUGH GRADE SITE. 6. CONSTRUCT HOUSES. THE FIRST FLOOR ELEVATIONS CANNOT BE MORE THAN 1' HIGHER OR 0.2' LOWER THAN THE ELEVATIONS

SHOWN ON THIS PLAN. 7. UPON STABILIZATION OF ALL DISTURBED AREAS AND WITH THE APPROVAL OF THE SEDIMENT CONTROL INSPECTOR,

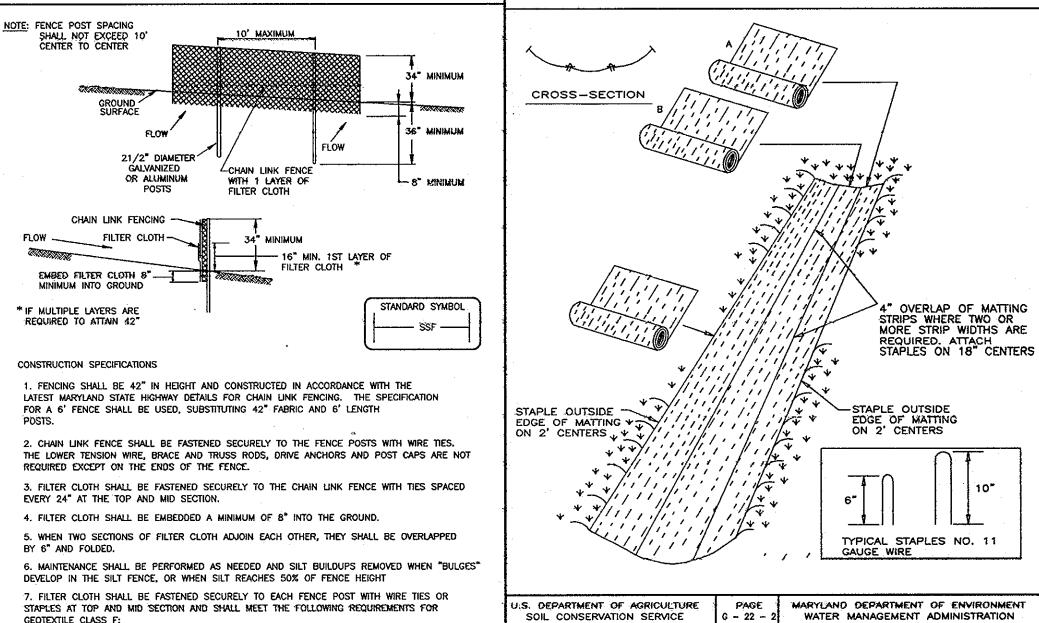
REMOVE ALL SEDIMENT CONTROL DEVICES.

DURING GRADING AND AFTER EACH RAINFALL, THE CONTRACTOR SHALL INSPECT AND PROVIDE THE NECESSARY MAINTENANCE ON THE SEDIMENT AND EROSION CONTROL MEASURES SHOWN

FOLLOWING INITIAL SOIL DISTURBANCE OR REDISTURBANCE PERMANENT OR TEMPORARY STABILIZATION SHALL BE COMPLIED

A, 7 CALENDAR DAYS FOR ALL PERIMETER SEDIMENT CONTROL STRUCTURES, DIKES, SWALES, DITCH PERIMETER SLOPES SLOPES AND ALL SLOPES GREATER THAN 3:1. B. 14 CALENDAR DAYS FOR ALL OTHER DISTURBED AREAS.

BY THE ENGINEER:



RAIN GARDEN ELEVATIONS LOT # RAIN GARDEN 1 2 3 4 5 6 7 4" INV 109.6 | 109.2 | 108.2 | 107.95 | 105.95 | 105.62 | 104.79 | 105.04 112.2 | 112.0 | 111.0 | 110.75 | 108.75 | 108.42 | 107.59 | 108.04 6.25'50 SF 1-PA-

50 LBS/IN (MIN.)

20 LBS/IN (MIN.)

75% (MIN.)

0.3 GAL/FT /MINUTE (MAX.)

TENSILE STRENGTH

TENSILE MODULUS

U.S. DEPARTMENT OF AGRICULTURE

SOIL CONSERVATION SERVICE

FILTERING EFFICIENCY

TEST: MSMT 509

TEST: MSMT 509

WATER MANAGEMENT ADMINISTRATION

TEST: MSMT 322

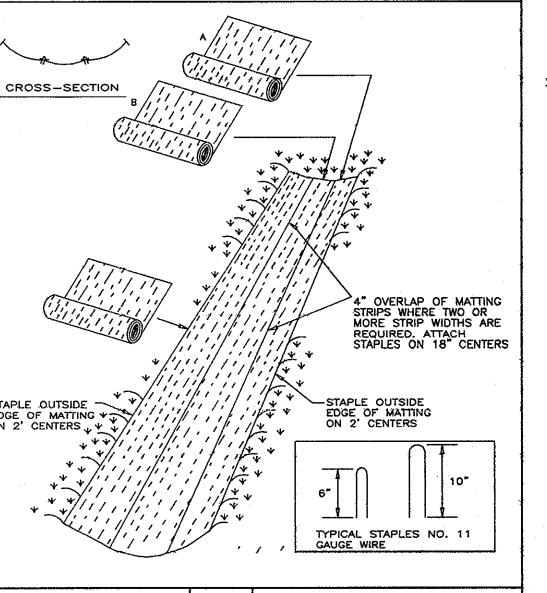
DETAIL 33 - SUPER SILT FENCE

RAIN GARDEN PLANTING DETAIL

**OPERATION AND MAINTENANCE** SCHEDULE FOR RAIN GARDEN AREAS ANNUAL MAINTENANCE OF PLANT MATERIAL, MULCH LAYER AND SOIL LAYER IS REQUIRED. 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 PRINNING.

 SCHEDULE OF PLANT INSPECTION WILL BE TWICE A YEAR IN SPRING AND FALL. THIS INSPECTION WILL INCLUDE REMOVAL OF DEAD AND DISEASED VEGETATION CONSIDERED BEYOND TREATMENT, REATMENT OF ALL DEFICIENT STAKES AND WIRES. 3. MULCH SHALL BE INSPECTED EACH SPRING. REMOVE PREVIOUS MULCH LAYER BEFORE APPLYING NEW LAYER ONCE EVERY 2 TO 3

4. SOIL EROSION TO BE ADDRESSED ON AN AS NEEDED WITH A MINIMUM OF ONCE PER MONTH AND AFTER HEAVY STORM EVENTS.



**DETAIL 30 - EROSION CONTROL MATTING** 

SOIL CONSERVATION SERVICE G - 22 - 2 WATER MANAGEMENT ADMINISTRATION EROSION CONTROL MATTING CONSTRUCTION SPECIFICATIONS

KEY-IN THE MATTING BY PLACING THE TOP ENDS OF THE MATTING IN A NARROW TRENCH, 6" IN DEPTH. BACKFILL THE TRENCH AND TAMP FIRMLY TO CONFORM TO THE CHANNEL CROSS-SECTION. SECURE WITH A ROW OF STAPLES ABOUT 4" DOWN SLOPE FROM THE TRENCH. SPACING BETWEEN STAPLES IS 6".

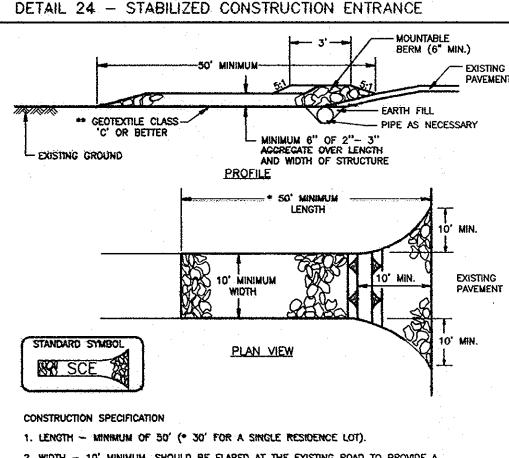
2. STAPLE THE 4" OVERLAP IN THE CHANNEL CENTER USING AN 18" SPACING BETWEEN STAPLES. 3. BEFORE STAPLING THE OUTER EDGES OF THE MATTING, MAKE SURE THE

MATTING IS SMOOTH AND IN FIRM CONTACT WITH THE SOIL. 4. STAPLES SHALL BE PLACED 2' APART WITH 4 ROWS FOR EACH STRIP, 2 OUTER ROWS, AND 2 ALTERNATING ROWS DOWN THE CENTER.

5. WHERE ONE ROLL OF MATTING ENDS AND ANOTHER BEGINS, THE END OF THE TOP STRIP SHALL OVERLAP THE UPPER END OF THE LOWER STRIP BY 4", SHIPLAP FASHION. REINFORCE THE OVERLAP WITH A DOUBLE ROW OF STAPLES SPACED 6" APART IN A STAGGERED PATTERN ON EITHER SIDE.

6. THE DISCHARGE END OF THE MATTING LINER SHOULD BE SIMILARLY SECURED WITH 2 DOUBLE ROWS OF STAPLES. NOTE: IF FLOW WILL ENTER FROM THE EDGE OF THE MATTING THEN THE AREA EFFECTED BY THE FLOW MUST BE KEYED-IN. U.S. DEPARTMENT OF AGRICULTURE PAGE MARYLAND DEPARTMENT OF ENVIRONMENT

SOIL CONSERVATION SERVICE | G - 22 - 2A | WATER MANAGEMENT ADMINISTRATION



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

3. GEOTEXTILE FABRIC (FILTER CLOTH) SHALL BE PLACED OVER THE EXISTING GROUND PRIOR TO PLACING STONE. \*\* THE PLAN APPROVAL AUTHORITY MAY NOT REQUIRE SINGLE FAMILY RESIDENCES TO USE GEOTEXTILE.

4. STONE - CRUSHED AGGREGATE (2" TO 3") OR RECLAIMED OR RECYCLED CONCRETE

5. SURFACE WATER - ALL SURFACE WATER FLOWING TO OR DIVERTED TOWARD CONSTRUCTION ENTRANCES SHALL BE PIPED THROUGH THE ENTRANCE, MAINTAINING POSITIVE DRAINAGE. PIPE INSTALLED THROUGH THE STABILIZED CONSTRUCTION ENTRANCE SHALL BE PROTECTED WITH A MOUNTAILE BERM WITH 5:1 SLOPES AND A MINIMUM OF 6" OF STONE OVER THE PIPE. PIPE HAS 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.

6. LOCATION — A STABILIZED CONSTRUCTION ENTRANCE SHALL BE LOCATED AT EVERY POINT WHERE CONSTRUCTION TRAFFIC ENTERS OR LEAVES A CONSTRUCTION SITE. VEHICLES LEAVING THE SITE MUST TRAVEL OVER THE ENTIRE LENGTH OF THE STABILIZED CONCONSTRUCTION ENTRANCE.

MARYLAND DEPARTMENT OF ENVIRONMEN WATER MANAGEMENT ADMINISTRATION U.S. DEPARTMENT OF AGRICULTURE

> SEWER CONNECTION TABULATION LOT # SLOPE ELEV. DIS. ELEV. DIS. ELEV. MAIN DIS. ELEV. MINIT M.C.E.

MATERIALS SPECIFICATIONS FOR BIO-RETENTION SPECIFICATION NOTES MATERIAL PLANTINGS PLANTINGS ARE SITE-SPECIFIC **SPECIFICATION** USDA SOIL TYPES LOAWY SAND, SANDY LOAM OR LOAM PLANTING SOIL SAND 35-60% (2.5' TO 4' DEEP) SILT 30-55% SHREDDED HARDWOOD ACED & MONTHS, MINIMUM PEA CRAVEL DIAPHRAGM AND PEA' GRAVEL: ASTM-D-448 PEA GRAVEL NO. 6 STONE: 2" TO 5" CURTAIN DRAIN ORNAMENTAL STONE: WASHED COBBLES CEOTEXTILE CLASS "C"-APPARENT OPENING FOR USE AS NECESSARY BENEATH UNDERDRAINS ONLY. SIZE (ASTM-D-4751), GRAB TENSILE STRENGTH (ASTM-D-4632) PUNCTURE RESISTACE (ASTM-D-4833) 0.375" TO 0.75" UNDERDRAIN GRAVEL AASHTO NI-43 4" TO 6" RIGID SCHEDULE 3/8" PERF. @ 6" O.C., 4 HOLES PER ROW: MIN. OF 3" OF F 758. TYPE PS 28 00R UNDERDRAIN PIPING 40 PVC OR SDR35 GRAVEL OVER PIPES: NOT NECESSARY UNDERNEATH PIPES aashto M-278 ON-SITE TESTING OF POURED-IN-PLACE CONCRETE REQUIRED: POURED IN PLACE CONCR MSHA MIX NO. 3: fc=3500 28 DAY STRENGTH AND SLUMP TEST; ALL CONCRETE DESIGN (CAST—IN—PLACE PSI @ 28 DAYS, NORMAL WEIGHT, (IF REQUIRED) or pre-cast) not using previously approved state or local AIR-ENTRAINED: REINFORCING TO STANDARDS REQUIRES DESIGN DRAWINGS SEALED AND APPROVED BY A MEET ASTM-615-60 Professional structural engineer licensed in the state of Maryland — design to include meeting aci code 350.r/69; vertical loading (H-10 OR H-20); ALLOWABLE HORIZONTAL LOADING (BASED ON SOIL PRESSURES): AND ANALYSIS OF POTENTIAL CRACKING sand substitutions such as diabase and graystone #10 are not AASHTO-M-6 OR ASTN-C-33 0.02" TO 0.04" SAND (1' DEEP) ACCEPTABLE. NO CALCIUM CARBONATED OR DOLONITIC SAND

SUBSTITUTIONS ARE ACCEPTABLE. NO "ROCK DUST" CAN BE USED FOR

REVISION DATE SITE DEVELOPMENT PLAN SEDIMENT AND EROSION **CONTROL DETAILS SOUTH POINT PHASE I & 2** LOTS 1 - 7, AND LOT 9

COUNTY REF.: S-05-09, WP-05-131, P-10-01, F-10-054 BLOCK 3 TAX MAP 38 PARCEL 437 **1ST ELECTION DISTRICT** HOWARD COUNTY, MARYLAND ROBERT H. VOGEL



ENGINEERING, INC. Engineers • Surveyors • Planners B407 MAIN BTREET Tel: 410.461.7666 ELLICOTT CITY, MD 21043 FAX: 410.461.8961

OF MARY. dece

ROBERT H. VOGEL, PE No.1619

DESIGN BY: JCO&HS DRAWN BY: CHECKED BY: DATE: NOVEMBER, 2010 SCALE: AS SHOWN

W.O. NO.:

WERE PREPARED OR APPROVED BY ME. AN THAT I AM A DULY LICENSED PROFESSIONA OF MARYLAND, LICENSE NO. 16193 EXPIRATION DATE: 09-27-2012

OWNER/BUILDER TRINITY QUALITY HOMES 3675 PARK AVE., STE. 301 ELLICOTT CITY, MARYLAND 21043 (410) 480-0023

04-149 SHEET

SIGNATURE OF DEVELOPER

21.0 STANDARDS AND SPECIFICATIONS FOR TOPSOIL

I. ON SOIL MEETING TOPSOIL SPECIFICATIONS, OBTAIN TEST

A. PH FOR TOPSOIL SHALL BE BETWEEN 6.0 AND 7.5. IF THE TESTED SOIL DEMONSTRATES A PH OF LESS THAN

PH TO 6.5 OR HIGHER.

1.5 PERCENT BY WEIGHT.

PHYTO-TOXIC MATERIALS.

, SUFFICIENT LIME SHALL BE PRESCRIBED TO RAISE

B. ORGANIC CONTENT OF TOPSOIL SHALL BE NOT LESS THAN

C. TOPSOIL HAVING SOLUBLE SALT CONTENT GREATER THAN

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

WHEN TOPSOILING, MAINTAIN NEEDED EROSION AND

GRADES ON THE AREAS TO BE TOPSOILED, WHICH HAVE

III. TOPSOIL SHALL BE UNIFORMLY DISTRIBUTED IN A 4" -

IV. TOPSOIL SHALL NOT BE PLACE WHILE THE TOPSOIL OR

SOIL PROTECTION ZONE NOTES

WHERE POSSIBLE, THE SOIL PROTECTION ZONE SHALL EXTEND

TO THE DRIP LINE OF SPECIMEN TREES. FOR OTHER GROUPS

PLACE IN THE VICINITY OF THE SOIL PROTECTION ZONE, ROOT PRUNING SHALL BE IMPLEMENTED PER ROOT PRUNING DETAIL,

WHERE THE SOIL PROTECTION ZONE MUST ENCROACH INSIDE THE CRITICAL ROOT ZONE OF A TREE, SOIL DISTURBANCE SHALL BE MITIGATED WITH VERTICAL MULCHING, OR RADIAL TRENCHING.

TREE MAINTENANCE AND REMOVAL SHALL BE UNDERTAKEN BY A QUALIFIED MD TREE EXPERT TO ENSURE DAMAGE TO

CHIPPED AND SPREAD AT THE EDGE OF THE SOIL PROTECTION ZONE TO A DEPTH OF 6 INCHES. THIS SHALL OCCUR OUTSIDE THE SOIL PROTECTION ZONE WHERE COMPACTION COULD IMPACT OTHERWISE UNPROTECTED CRITICAL ROOT ZONE.

PERMANENT SEEDING NOTES

1) 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

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

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

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

THIS DEVELOPMENT PLAN IS APPROVED FOR SOIL EROSION AND

SEDIMENT CONTROL BY THE HOWARD SOIL CONSERVATION DISTRICT.

30-0-0 UREAFORM FERTILIZER (9 LBS/1000 SQ.FT.)

THREE INCHES OF SOIL.

BRUSH AND LIMBS REMOVED FOR CONSTRUCTION SHALL B

OF TREES, THE ZONE SHALL BE THE DRIP LINE OF 40% OF THE HEIGHT OF THE TREE, WHICHEVER IS GREATER.

THE SOIL PROTECTION ZONE INCLUDE ALL AREAS CONTAINED

INSIDE THE LIMIT OF DISTURBANCE.

PREVENTATIVE TREATMENT OF REMOVAL.

SURROUNDING TREES IS MINIMIZED.

PROTECTION ZONE.

SHOWN ON THIS PLAN.

500 PARTS PER MILLION SHALL NOT BE USED.

Muhael Pfor

BY THE DEVELOPER:

"I CERTIFY THAT THIS PLAN FOR EROSION AND SEDIMENT CONTROL REPRESENTS A PRACTICAL AND WORKABLE PLAN BASED ON MY PERSONAL KNOWLEDGE OF THE SITE CONDITIONS, AND THAT IT WAS PREPARED IN ACCORDANCE WITH THE REQUIREMENTS OF THE HOWARD SOIL CONSERVATION DISTRICT." 11/17/10

SIGNATURE OF ENGINEER

(5 DAYS)

(1 DAY)

(2 WEEKS)

(6 MONTHS)

(2 DAYS)