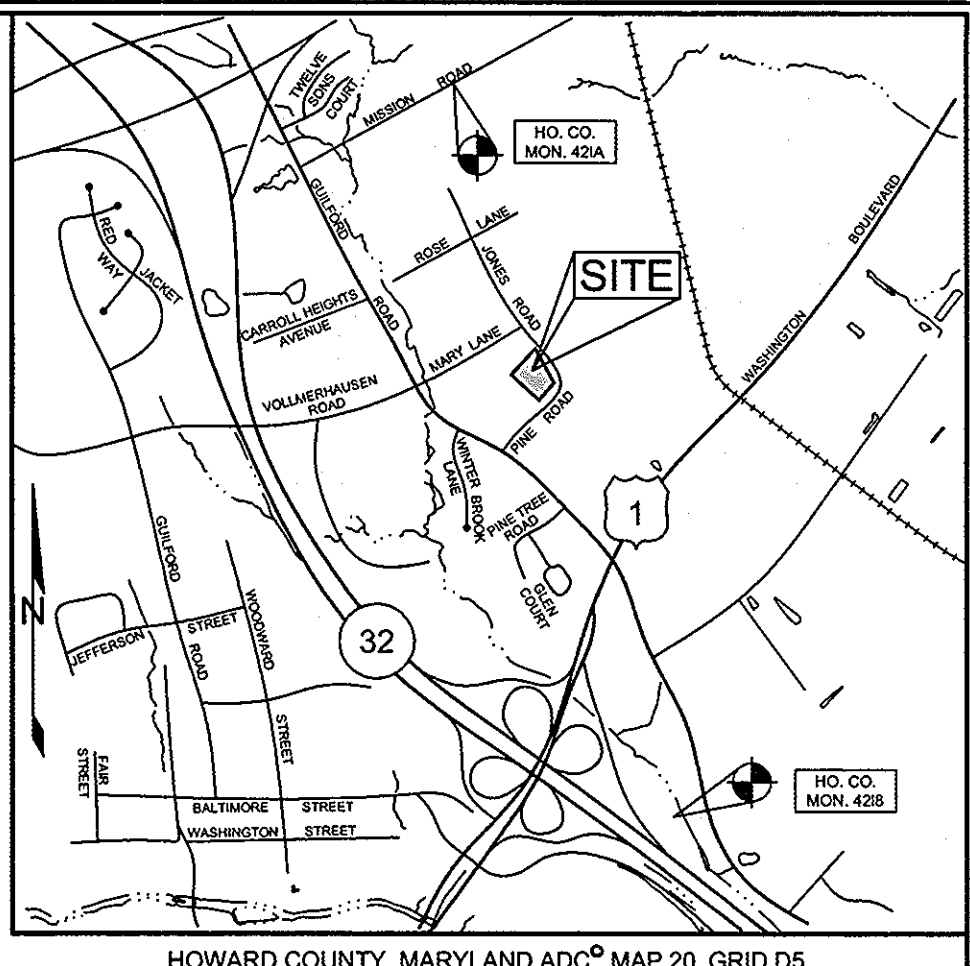
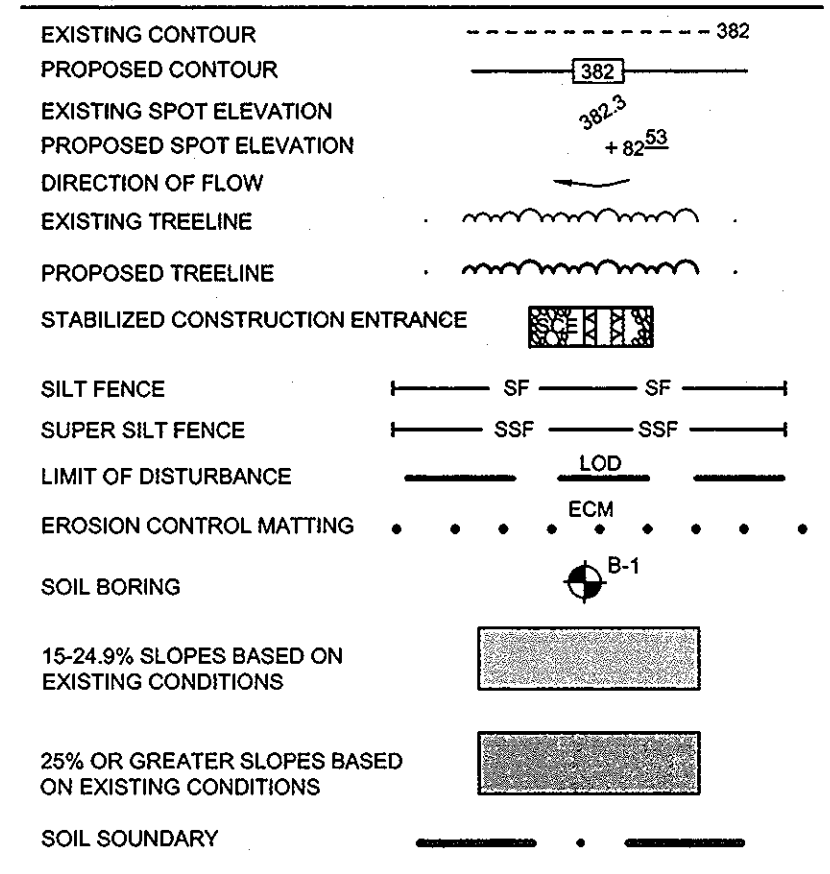


GENERAL NOTES

- THIS PROPERTY IS ZONED R-12 PER THE 02/02/04 COMPREHENSIVE ZONING PLAN AND THE "COM-PLITE" ZONING AMENDMENTS EFFECTIVE 07/28/06.
- GROSS AREA OF PROPERTY = 2.76 AC ±
- PROPERTY IS IN THE METROPOLITAN DISTRICT.
- PUBLIC WATER AND PUBLIC SEWER WILL BE USED WITH THIS SITE.
- THE CONTRACTOR SHALL OBTAIN ALL NECESSARY UTILITIES FROM THE UTILITIES COMPANIES OR AGENCIES AT LEAST FIVE (5) WORKING DAYS BEFORE STARTING WORK SHOWN ON THESE PLANS.
 - STATE HIGHWAY ADMINISTRATION 410.531.5533
 - BGE(CONTRACTOR SERVICES) 410.890.4820
 - BGE(UNDERGROUND DAMAGE CONTROL) 410.787.9068
 - MISS UTILITY 800.257.7777
 - COLONIAL PIPELINE COMPANY 410.795.1390
 - HOWARD COUNTY, DEPT. OF PUBLIC WORKS, BUREAU OF UTILITIES 410.313.4900
 - HOWARD COUNTY HEALTH DEPARTMENT 410.313.2640
 - AT&T 800.252.1133
 - VERIZON 800.743.0033/410.224.9210
- THIS PLAN IS BASED ON A FIELD RUN MONUMENTED BOUNDARY SURVEY PERFORMED ON OR ABOUT MARCH 1998 BY SHANBERGER & LANE AND VERIFIED ON OR ABOUT OCTOBER, 2006 BY SILL, ADCOCK & ASSOCIATES, LLC.
- TOPOGRAPHY IS BASED ON A FIELD RUN TOPOGRAPHICAL SURVEY PERFORMED BY SILL, ADCOCK & ASSOCIATES, LLC, DATED NOVEMBER 2006.
- THE CONTRACTOR SHALL NOTIFY MISS UTILITY AT 1-800-257-7777 AT LEAST 48 HOURS PRIOR TO ANY EXCAVATION WORK BEING DONE.
- ANY DAMAGE TO PUBLIC RIGHT-OF-WAYS, PAVING OR EXISTING UTILITIES WILL BE CORRECTED AT THE CONTRACTOR'S EXPENSE.
- 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 THE START OF WORK.
- THE LOTS SHOWN HEREON COMPLY WITH THE MINIMUM OWNERSHIP, WIDTH AND LOT AREA AS REQUIRED BY THE MARYLAND STATE DEPARTMENT OF THE ENVIRONMENT.
- ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE LATEST STANDARDS AND SPECIFICATIONS OF HOWARD COUNTY IN ADDITION TO MSHA STANDARDS AND SPECIFICATIONS IF APPLICABLE.
- THE PROJECT IS IN CONFORMANCE WITH THE LATEST HOWARD COUNTY STANDARDS UNLESS WAIVERS HAVE BEEN APPROVED.
- 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 CONTRACTOR'S 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.
- SOIL COMPACTATION 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 ON SHEET 2). ROAD WIDENING TO BE HOWARD COUNTY STANDARD P-2 PAVING SECTION (SEE DETAIL ON SHEET 2). GEOTECHNICAL ENGINEER TO CONFIRM ACCEPTABILITY OF PROPOSED PAVING SECTION, BASED ON SOIL TEST, PRIOR TO CONSTRUCTION.
- 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 421A AND 421B WERE USED FOR THIS PROJECT.
- IN ACCORDANCE WITH SECTION 128 OF THE HOWARD COUNTY ZONING REGULATIONS, BAY WINDOWS, CHIMNEYS OR EXTERIOR STAIRWAYS NOT MORE THAN 10 FEET IN WIDTH PROJECTING 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.
- 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 14% GRADE, MAXIMUM 10% GRADE CHANGE AND 45-FOOT TURNING RADIUS;
 - d) STRUCTURES (CULVERTS/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) MAINTENANCE - SUFFICIENT TO ENSURE ALL WEATHER USE
- DRIVEWAY ENTRANCE TO BE PER HOWARD COUNTY STANDARD DETAIL R-6.01.
- SEWER HOUSE CONNECTION (SHC) TO BE AT 2.0% UNLESS OTHERWISE NOTED. CLEANOUTS ARE TO BE PROVIDED AT ALL BENDS.
- A WETLAND DELINEATION WAS PERFORMED BY EXPLORATION RESEARCH, INC., DATED NOVEMBER 2006.
- THERE ARE NO WETLANDS, FLOODPLAINS, HISTORIC STRUCTURES OR CEMETERIES LOCATED ONSITE.
- A NOISE STUDY IS NOT REQUIRED FOR THIS PROJECT.
- A TRAFFIC STUDY IS NOT REQUIRED FOR THIS PROJECT.
- A SPEED STUDY WAS PERFORMED BY MARS GROUP, DATED NOVEMBER 2006.
- THIS PLAN HAS BEEN PREPARED IN ACCORDANCE WITH SECTION 16.124 OF HOWARD COUNTY CODE AND LANDSCAPE MANUAL. PERIMETER LANDSCAPE BUFFERS ARE NOT REQUIRED FOR LOTS WITHIN THE SAME SUBDIVISION. IN ACCORDANCE WITH THE ROUTE 1 MANUAL, EIGHT STREET TREES SHALL BE PROVIDED ALONG JONES ROAD FRONTAGE. SURETY IN THE AMOUNT OF \$2,400.00 SHALL BE POSTED WITH THE DEVELOPERS AGREEMENT FOR THIS FINAL PLAN (F-58-070).
- THIS PLAN COMPLIES WITH THE REQUIREMENTS OF SECTION 16.120 OF THE HOWARD COUNTY CODE FOR FOREST CONSERVATION BY A FEE-IN-LIEU OF 0.98 ACRES OF REFORESTATION IN THE AMOUNT OF \$32,017.00, PAID WITH THE DEVELOPERS AGREEMENT.
- THIS SITE IS EXEMPT FROM STORMWATER MANAGEMENT REQUIREMENTS FOR CHANNEL PROTECTION, STORMWATER MANAGEMENT REQUIREMENTS FOR WATER QUALITY AND RECHARGE FOR THIS SITE HAVE BEEN PROVIDED FOR BY THE FOLLOWING METHODS:
 - LOT 10 - EXEMPT
 - LOT 11 - PRIVATELY OWNED AND MAINTAINED BIOTRETION FACILITY (F-6) AND NON-ROOFTOP DISCONNECT
 - THE STORMWATER MANAGEMENT PRACTICES (BIOTRETION FACILITY) LOCATED ON LOT 11 ARE TO BE OWNED AND MAINTAINED BY THE PROPERTY OWNERS AND SURETY FOR THEM SHALL BE PAID WITH THE DEVELOPERS AGREEMENT.
 - ALL ROOF DRAINS SHALL DRAIN TO THE BIOTRETION FACILITY.
 - PUBLIC WATER AND SEWER EXTENSION TO BE CONSTRUCTED UNDER PUBLIC WATER AND SEWER PLANS CONTRACT NUMBER 24-4526-D.
 - MODERATE AND STEEP SLOPE DELINEATION SHOWN IS BASED ON THE CURRENT EXISTING CONDITIONS. THE EXISTING TOPOGRAPHY SHOWN ON LOT 12 AND PART OF LOT 11 IS BASED ON THE POST DEVELOPED CONDITIONS UNDER SDP-07-084.
 - ALL ROOF RUN-OFF FROM LOT 11 TO BE PIPED TO THE BIOTRETION FACILITY.
 - TRASH AND RECYCLABLES WILL BE COLLECTED AT JONES ROAD AND PINE ROAD WITHIN 5' OF THE COUNTRY ROADWAY.
 - PREVIOUS DPZ REFERENCE: P. B. 3 P. 51, SDP 07-064, WP-08-075.
 - THIS PLAN IS SUBJECT TO WAIVER PETITION, WP-08-075 AND WAS APPROVED ON MARCH 27, 2008 TO WAIVE SECTIONS 16.135(b) AND 16.135(c) OF THE HOWARD COUNTY CODE AND FOR AN EXTENSION OF TIME BY WHICH TO SUBMIT THE SITE DEVELOPMENT PLAN ORIGINALS FOR SIGNATURE PROCESSING; 16.132(a)(2)(i)(ii) REQUIRING ROAD IMPROVEMENTS ALONG THE FULL LENGTH OF THE PROPERTY; 16.135(a) REQUIRING SUBMISSION OF ROAD CONSTRUCTION PLANS AND 16.135(a) REQUIRING STREET LIGHTS, SUBJECT TO THE FOLLOWING CONDITIONS:
 - REACTIVATION OF THE SITE DEVELOPMENT PLAN IS APPROVED AND A SIX MONTH EXTENSION OF TIME BY WHICH TO SUBMIT THE SITE DEVELOPMENT PLAN ORIGINALS FOR SDP 07-064, IS GRANTED FROM THE EXPIRY DATE OF JANUARY 15, 2008. THE NEW DUE DATE TO SUBMIT THE SITE DEVELOPMENT PLAN ORIGINALS IS ON OR BEFORE JULY 15, 2008.
 - ADD A NOTE TO THE SITE DEVELOPMENT PLAN ORIGINALS REFERENCING THIS WAIVER, CONDITIONS OF APPROVAL AND DATE.
 - ROAD IMPROVEMENTS ALONG THE FULL LENGTH OF THE SUBJECT PROPERTY WILL NOT BE REQUIRED UNDER F-08-70. THE DEVELOPER SHALL, HOWEVER, PROVIDE A SIDEWALK BEGINNING FROM THE WESTERN PROPERTY LINE OF LOT 12 ALONG JONES ROAD AND EXTEND TO THE EXISTING DRIVEWAY LOCATED ON LOT 10. CONSTRUCTION OF SIDEWALKS ALONG JONES AND PINE ROADS UPON ANY FUTURE RESUBDIVISION OF LOT 10 IS NOT PRECLUDED BY THIS WAIVER APPROVAL.
 - THE SIDEWALK SHALL BE SHOWN ON SDP 07-064 ALONG THE FRONTAGE OF LOT 4 (FUTURE LOT 12). ROAD CONSTRUCTION DRAWINGS WILL NOT BE REQUIRED. THE SIDEWALK AND ROAD WIDENING OF JONES ROAD SHALL BE SHOWN ON THE SUPPLEMENTAL LANDSCAPE FOREST CONSERVATION PLAN FOR F-08-70 AND SHALL BE SUBMITTED AS MYLARS FOR SIGNATURE PROCESSING. THE TITLE OF THIS SHEET SHALL BE EXPANDED TO MAKE REFERENCE TO ROAD IMPROVEMENTS. AT THE TIME OF ITS SUBMISSION, THE APPLICANT SHALL PAY THE DIFFERENCE BETWEEN THE COST OF THE REVIEW FEE FOR A ROAD CONSTRUCTION PLAN AND A SUPPLEMENTAL PLAN.
 - THE EXISTING HOUSE ON LOT 10 WILL BE SERVED BY THE PROPOSED PUBLIC WATER MAIN. THE EXISTING WELL WILL BE CONVERTED TO A NON-POTABLE WATER SOURCE FOR IRRIGATION. THE EXISTING WELL CONNECTION TO THE HOUSE SHALL BE RE-PLUMBED SO THAT THERE IS NO POSSIBILITY OF CROSS CONTAMINATION WITH THE NEW PUBLIC WATER CONNECTION. ALL WORK SHALL BE DONE BY A LICENSED WELL DRILLER AND MUST MEET HOWARD COUNTY HEALTH DEPARTMENT STANDARDS.

SOIL CHART		
SYMBOL	NAME / DESCRIPTION	GROUP
AgC2	AURA GRAVELLY LOAM, 5 TO 10 PERCENT SLOPES, MODERATELY ERODED	B
BeC2	BELTSVILLE SILT LOAM, 5 TO 10 PERCENT SLOPES, MODERATELY ERODED	B
CID2	CHILLUM GRAVELLY LOAM, 10 TO 15 PERCENT SLOPES, MODERATELY ERODED	C
Gp	GRAVEL PITTS AND QUARRIES	C
SsE	SASSAFRAS SOILS, 15 TO 40 PERCENT SLOPES	B

LEGEND



BENCHMARKS				
NUMBER	NORTHING	EASTING	ELEVATION	DESCRIPTION
421A	543,390.4135	1,384,912.6627	312.00'	74.3' NORTH OF BG&E POLE
421B	542,107.8895	1,362,386.0376	301.49'	283' WEST OF EXIT SIGN 72' NORTH OF EDGE OF MACADAM

FOREST CONSERVATION WORKSHEET					
NET TRACT AREA					
A	TOTAL TRACT AREA			2.76 AC	
B	DEDUCTIONS			0.00 AC	
C	NET TRACT AREA			2.76 AC	
LAND USE CATEGORY					
ARA	MDR	IDA	HDR	MPD	CIA
0	0	0	1	0	0
D	AFFORESTATION THRESHOLD (NET TRACT AREA x 15%)				0.41 AC
E	CONSERVATION THRESHOLD (NET TRACT AREA x 20%)				0.55 AC
EXISTING FOREST COVER					
F	EXISTING FOREST COVER WITHIN THE NET TRACT AREA				0.49 AC
G	AREA OF FOREST ABOVE CONSERVATION THRESHOLD				0.00 AC
BREAK EVEN POINT					
H	BREAK EVEN POINT				0.49 AC
I	FOREST CLEARING PERMITTED WITHOUT MITIGATION				0.00 AC
PROPOSED FOREST CLEARING					
J	TOTAL AREA OF FOREST TO BE CLEARED				0.49 AC
K	TOTAL AREA OF FOREST TO BE RETAINED				0.00 AC
PLANTING REQUIREMENTS					
L	REFORESTATION FOR CLEARING ABOVE THE CONSERVATION THRESHOLD				0.00 AC
M	REFORESTATION FOR CLEARING BELOW THE CONSERVATION THRESHOLD				0.98 AC
N	CREDIT FOR RETENTION ABOVE THE CONSERVATION THRESHOLD				0.00 AC
P	TOTAL REFORESTATION REQUIRED				0.98 AC
Q	TOTAL AFFORESTATION REQUIRED				0.00 AC
R	TOTAL PLANTING REQUIRED				0.98 AC

SHEET INDEX	
SHEET NO.	DESCRIPTION
1	FINAL ROAD CONSTRUCTION PLAN/FOREST CONSERVATION AND LANDSCAPE PLAN
2	BIOTRETION AND ROAD DETAILS

ADDRESS CHART	
LOT	STREET ADDRESS
10	8660 PINE ROAD
11	8024 JONES ROAD
12	8020 JONES ROAD

OWNER/DEVELOPER
 FORSTER W. HARMON
 MARGARET T. HARMON
 8660 PINE ROAD
 JESSUP, MARYLAND 20794
 301.776.9412

FINAL ROAD CONSTRUCTION PLAN, FOREST CONSERVATION AND LANDSCAPE PLAN NORDAU SUBDIVISION
 LOTS 10, 11 AND 12, SECTION E-1
 A RESUBDIVISION OF LOTS 3 AND 4, SECTION E-1
 SINGLE FAMILY DETACHED DWELLINGS
 P.B. 3, P. 51
 TAX MAP 47, GRID 6
 6TH ELECTION DISTRICT
 PARCEL 49
 HOWARD COUNTY, MARYLAND

Sill · Adcock & Associates · LLC
 Engineers · Surveyors · Planners
 3300 North Ridge Road, Suite 160
 Ellicott City, Maryland 21043
 Phone: 443.325.7682 Fax: 443.325.7685
 Email: info@silladcock.com

DESIGN BY: JT
 DRAWN BY: JT
 CHECKED BY: PS
 SCALE: AS SHOWN
 DATE: SEPT. 12, 2008
 PROJECT #: 08-050
 SHEET #: 1 of 2

PROFESSIONAL CERTIFICATION: I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND, LICENSE NO. 32023, EXPIRATION DATE: JUNE 06, 2009

APPROVED: HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
 WITHIN 2 MONTHS 9-30-08
 CHIEF, BUREAU OF HIGHWAYS

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING
 CHIEF, DEVELOPMENT ENGINEERING DIVISION
 CHIEF, DIVISION OF LAND DEVELOPMENT

THIS DEVELOPMENT PLAN IS APPROVED FOR SOIL EROSION AND SEDIMENT CONTROL BY THE HOWARD COUNTY CONSERVATION DISTRICT
 JOHN R. ROBERTSON 12/2/08
 HOWARD SCD

ENGINEER'S CERTIFICATE
 I CERTIFY THAT THIS PLAN FOR SEDIMENT AND EROSION 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 COUNTY CONSERVATION DISTRICT.
 PAUL M. SILL, P.E. 9-11-08

DEVELOPER'S CERTIFICATE
 I 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 ENVIRONMENT APPROVED TRAINING PROGRAM FOR THE CONTROL OF SEDIMENT AND EROSION BEFORE BEGINNING THE PROJECT. I ALSO AUTHORIZE PERFORM ON-SITE INSPECTION BY THE HOWARD COUNTY CONSERVATION DISTRICT.
 FORSTER W. HARMON 9-11-08

DEVELOPER'S BUILDER'S CERTIFICATE
 I CERTIFY THAT THE LANDSCAPING SHOWN ON THIS PLAN WILL BE DONE ACCORDING TO THE PLAN, SECTION 16.124 OF THE HOWARD COUNTY CODE AND THE HOWARD COUNTY LANDSCAPE MANUAL. I FURTHER CERTIFY THAT UPON COMPLETION, A LETTER OF LANDSCAPE INSTALLATION, ACCOMPANIED BY AN EXECUTED ONE(1) YEAR GUARANTEE OF PLANT MATERIALS, WILL BE SUBMITTED TO THE DEPARTMENT OF PLANNING AND ZONING.
 FORSTER W. HARMON 9-11-08

LANDSCAPE SCHEDULE
 KEY QUANTITY BOTANICAL NAME SIZE NOTE
 8 ACER RUBRUM 2 1/2"-3" CAL. 8 & 5
 OCTOBER GLORY RED MAPLE
 Per Route 1 Manual

CURVE TABLE						
CURVE	RADIUS	ARC LENGTH	DELTA	TANGENT	CHORD BEARING	CHORD LENGTH
C1	40.00'	49.84'	71°23'50"	28.74'	N08°43'04"E	46.68'

LANDSCAPE SCHEDULE				
KEY	QUANTITY	BOTANICAL NAME	SIZE	NOTE
○	8	ACER RUBRUM OCTOBER GLORY RED MAPLE	2 1/2"-3" CAL.	8 & 5

PLAN VIEW
 SCALE: 1"=30'

21.0 STANDARDS AND SPECIFICATIONS FOR TOPSOILS

DEFINITION

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

- I. 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.
 - 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.

II. FOR THE PURPOSE OF THESE STANDARDS AND SPECIFICATIONS, AREAS WITH 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

I. TOPSOIL SALVAGED FROM THE EXISTING SITE MAY BE USED PROVIDED THAT IT MEETS THE STANDARDS AS SET FORTH IN THESE SPECIFICATIONS. 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.

II. TOPSOIL SPECIFICATIONS - SOIL TO BE USED AS TOPSOIL MUST MEET THE FOLLOWING:

- 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 SUBSOILS AND SHALL CONTAIN LESS THAN 5% BY VOLUME OF CINDERS, STONES, SLAG, COARSE FRAGMENTS, GRAVEL, STICKS, ROOTS, TRASH, OR OTHER MATERIAL LARGER THAN 1 AND 1/2" IN DIAMETER.
- I. TOPSOIL MUST BE FREE OF PLANTS OR PLANT PARTS SUCH AS BERMUDA GRASS, QUACKGRASS, JOHNSONGRASS, NUTSEDGE, POISON IVY, THISTLE, OR OTHERS AS SPECIFIED.
- II. 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.

III. 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 DETERMINED TO PROPER GRADING AND SEEDING PREPARATION.

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 DETERMINED TO PROPER GRADING AND SEEDING PREPARATION.

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

- 1) PREFERRED - APPLY 2 TONS PER ACRE DOLOMITIC LIMESTONE (92 LBS/1000 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 DOLOMITIC LIMESTONE (92 LBS/1000 SQ.FT.) AND 1000 LBS PER ACRE 10-10-10 FERTILIZER (23 LBS/1000 SQ.FT.) BEFORE SEEDING. HARROW OR DISC INTO UPPER THREE INCHES OF SOIL.

SEEDING: FOR 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 PER ACRE (1.4 LBS/1000 SQ.FT.) OF KENTUCKY 31 TALL FESCUE PER ACRE AND 2 LBS PER ACRE (0.06 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 RESEEDINGS.

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 1/2 BUSHEL PER ACRE OF ANNUAL RYE (3.2 LBS/1000 SQ.FT.) FOR THE PERIOD MAY 1 THRU AUGUST 14, SEED WITH 1/2 BUSHEL 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.

SEDIMENT CONTROL NOTES

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 THERETO.
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. C). 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 BE MAINTAINED 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:
 - A. TOTAL AREA: 2.75 ACRES
 - B. AREA DISTURBED: 0.38 ACRES
 - C. AREA TO BE ROOFED OR PAVED: 0.10 ACRES
 - D. AREA TO BE VEGETATIVELY STABILIZED: 0.28 ACRES
 - E. TOTAL CUT: 63 CY
 - F. TOTAL FILL: 2,924 CY
 - G. OFF-SITE WASTE/BORROW AREA LOCATION:

8. ANY SEDIMENT CONTROL PRACTICE WHICH IS DISTURBED BY GRADING ACTIVITY FOR PLACEMENT OF UTILITIES SHALL 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.

12. EARTHWORK QUANTITIES ARE SOLELY FOR THE PURPOSE OF CALCULATING FEES. CONTRACTOR TO VERIFY ALL QUANTITIES PRIOR TO THE START OF CONSTRUCTION.

13. TO BE DETERMINED BY CONTRACTOR, WITH PRE-APPROVAL OF THE SEDIMENT CONTROL INSPECTOR WITH AN APPROVED AND ACTIVE GRADING PERMIT.

14. 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.

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16. EARTHWORK QUANTITIES ARE SOLELY FOR THE PURPOSE OF CALCULATING FEES. CONTRACTOR TO VERIFY ALL QUANTITIES PRIOR TO THE START OF CONSTRUCTION.

17. TO BE DETERMINED BY CONTRACTOR, WITH PRE-APPROVAL OF THE SEDIMENT CONTROL INSPECTOR WITH AN APPROVED AND ACTIVE GRADING PERMIT.

18. ANY SEDIMENT CONTROL PRACTICE WHICH IS DISTURBED BY GRADING ACTIVITY FOR PLACEMENT OF UTILITIES SHALL BE REPAIRED ON THE SAME DAY OF DISTURBANCE.

19. ADDITIONAL SEDIMENT CONTROLS MUST BE PROVIDED, IF DEEMED NECESSARY BY THE HOWARD COUNTY SEDIMENT CONTROL INSPECTOR.

20. 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.

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22. EARTHWORK QUANTITIES ARE SOLELY FOR THE PURPOSE OF CALCULATING FEES. CONTRACTOR TO VERIFY ALL QUANTITIES PRIOR TO THE START OF CONSTRUCTION.

23. TO BE DETERMINED BY CONTRACTOR, WITH PRE-APPROVAL OF THE SEDIMENT CONTROL INSPECTOR WITH AN APPROVED AND ACTIVE GRADING PERMIT.

24. 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.

25. 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.

26. EARTHWORK QUANTITIES ARE SOLELY FOR THE PURPOSE OF CALCULATING FEES. CONTRACTOR TO VERIFY ALL QUANTITIES PRIOR TO THE START OF CONSTRUCTION.

27. TO BE DETERMINED BY CONTRACTOR, WITH PRE-APPROVAL OF THE SEDIMENT CONTROL INSPECTOR WITH AN APPROVED AND ACTIVE GRADING PERMIT.

28. ANY SEDIMENT CONTROL PRACTICE WHICH IS DISTURBED BY GRADING ACTIVITY FOR PLACEMENT OF UTILITIES SHALL BE REPAIRED ON THE SAME DAY OF DISTURBANCE.

29. ADDITIONAL SEDIMENT CONTROLS MUST BE PROVIDED, IF DEEMED NECESSARY BY THE HOWARD COUNTY SEDIMENT CONTROL INSPECTOR.

30. 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.

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32. EARTHWORK QUANTITIES ARE SOLELY FOR THE PURPOSE OF CALCULATING FEES. CONTRACTOR TO VERIFY ALL QUANTITIES PRIOR TO THE START OF CONSTRUCTION.

33. TO BE DETERMINED BY CONTRACTOR, WITH PRE-APPROVAL OF THE SEDIMENT CONTROL INSPECTOR WITH AN APPROVED AND ACTIVE GRADING PERMIT.

SEQUENCE OF CONSTRUCTION

1. OBTAIN GRADING PERMIT.
2. NOTIFY HOWARD COUNTY DEPARTMENT OF INSPECTIONS, LICENSE AND PERMITS AT (410) 313-1880 AT LEAST 24 HOURS BEFORE STARTING ANY WORK.
3. INSTALL STABILIZED CONSTRUCTION ENTRANCE, SILT FENCE, AND SUPER SILT FENCE. (3 DAYS)
4. ROUGH GRADE SITE AND BEGIN BUILDING CONSTRUCTION. (1 WEEK)
5. FINISH BUILDING CONSTRUCTION AND PAVE DRIVEWAY. (4 MONTHS)
6. FINE GRADE SITE AND INSTALL EROSION CONTROL MATTING. (1 WEEK)
7. UPON STABILIZATION OF ALL DISTURBED AREAS AND WITH THE PERMISSION OF THE SEDIMENT CONTROL INSPECTOR, REMOVE ALL SEDIMENT CONTROL MEASURES AND STABILIZE ANY REMAINING DISTURBED AREA. (1 WEEK)

NOTE: -FOLLOWING INITIAL SOIL DISTURBANCE OR ANY REDISTURBANCES, PERMANENT OR TEMPORARY STABILIZATION SHALL BE COMPLETED WITHIN:

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

 -DURING GRADING AND AFTER EACH RAINFALL, CONTRACTOR WILL INSPECT AND PROVIDE NECESSARY MAINTENANCE TO THE SEDIMENT CONTROL MEASURES ON THIS PLAN.

NOTE: -FOLLOWING INITIAL SOIL DISTURBANCE OR ANY REDISTURBANCES, PERMANENT OR TEMPORARY STABILIZATION SHALL BE COMPLETED WITHIN:

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