PLANT SCHEDULE | Key | Qnty | Botanical Name Size / Root Common Name 2.5"-3" Caliper / B&B AR 2 Acer rubrum Red Maple SCHEDULE A - PERIMETER LANDSCAPE EDGE Adjacent to Perimeter Properties Roadways Type A Landscape Edge Type None required Linear Feet of Roadway Frontage / 563 Yes Credit for Existing Vegetation -Credit for Wall, Fence or Berm --Number of Plants Required 10 Shade Trees (1/60 LF) Evergreen Trees 10.5 **Number of Plants Provided** Shade Trees Evergreen Trees Other Trees Credit for Existing Vegetation

PAVING SECTION FOR DRIVEWAY

NOT TO SCALE

FIRST FLOOR BAY WINDOW OVERHANG

2' SECOND STORY . OVERHANG

ENGINEER'S CERTIFICATE

Conservation District.'

Signature of Engineer (print name below signature)

USD NATURAL RESOURCES CONSERVAÇÃO SERVICE

CARRIGAN HOMES

CARRIGAN HOMES "PATAPSCO"

ELEV. #2 7.79% TOTAL LOT COVERAGE

<u>PATAPSCO</u>

PORCH

I certify that this plan for sediment and erosion control represents a practial and workable plan based on my personal knowledge of the site conditions and

that it was perpared in accordance with the requirements of the Howard Soil

REVIEWED FOR HOWARD COUNTY SCD AND MEETS TECHNICAL REQUIREMENTS

THIS DEVELOPMENT PLAN IS APPROVED FOR SOIL ERSION AND SEDIMENT CONTROL BY HOWARD SOIL

DEPARTMENT OF PLANNING AND ZONING

2" TAR & CHIP

FIREPLACE

5/4/07

DATE

---- 6" CRUSHER RUN

		•	THE MOST CURRENT AAN	B) Af
		SPECIFICATIONS.		C) LII
. Y	íV/ La			D) Z(
\mathcal{N}_L	White,	2. CONTRACTOR S	SHALL VERIFY LOCATION OF ALL	E) PF
VEFF.	W/Z	UNDERGROUND U	TILITIES PRIOR TO DIGGING.	SI
77		7 50441 100470	OF BLANT WATERIAL MAY	F) TO
14			ON OF PLANT MATERIAL MAY O MEET FINAL FIELD	G) T(
1/1			ES SHALL NOT BE PLANTED IN	H) BI
	*		DRAINAGE SWALES.	I) IMF
1			•	J) OF
× -				K) Pf
2" DEPTH MULCH—	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	•		,,,,,
\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	WHITE FLA	ig Se guy wires	NOTES:	
SLOPE	EQUALLY SI	PACED AROUND TREE	STAKE ALL EVERGREEN TREES	LINDE
GRADE .	PREP	AREO TOPSOIL BACKFILL	GUY TREES 12' AND OVER AS	
			FOR DECIDUOUS TREES.	
			TREE SHALL BEAR SAME RELA	ATION T
			FINISHED GRADE AS IT BORE	TO
/ /-0" - \	1'-0"		PREVIOUS GRADE.	
2"x 4"x 2'-6" STAKE FLUSH WITH GROUND	TAMP TO PREVENT SETTLEMENT		NEVER CUT LEADERS. PRUNE ONLY TO REMOVE DAM	AAGED
TREE PLAN	TING DETAIL		OR BROKEN BRANCHES.	11/10/20

NOT TO SCALE

PLANTING NOTES:

KATHERINE & JOHN-KOLESAR

3728 SPRING MEADOW DRIVE >

DUNLOGGIN II, SECTION 6

LAT #14477

FLOODPLAIN?

DRAINAGE AND

Date

TILITY ÉASEMÉNT YR. PUBLIC

SITE ANALYSIS DATA CHART 1. ALL PLANT MATERIALS SHALL BE FULL AND A) TOTAL PROJECT AREA: 25988.70 SQ. FT. (0.59 AC.±) HEAVY, BE WELL FORMED AND SYMMETRICAL B) AREA OF PLAN SUBMISSION: 25988.70 SQ. FT. (0.59 AC. \pm) C) LIMIT OF DISTURBED AREA: 4987.50 SQ. FT. (0.11 AC.+) D) ZONING DESIGNATION: R-20 E) PROPOSED USE FOR SITE AND STRUCTURES: RESIDENTIAL SINGLE FAMILY DETACHED F) TOTAL # OF UNITS ALLOWED PER FINAL PLAT: 1 G) TOTAL NUMBER OF UNITS PROPOSED ON SUBMISSION: 1 H) BUILDING COVERAGE OF SITE: 2025.25 SQ. FT. (0.04 AC.+)=7.79% I) IMPERVIOUS COVERAGE OF SITE: 3125.26 SQ. FT. $(0.07 \text{ AC.} \pm)=12.02\%$ J) OFF STREET PARKING SPACES PROPOSED/REQUIRED = 2. K) PREVIOUS DPZ FILE REF F-05-009, WP-05-007 AND F-01-09. EN TREES UNDER 12' OVER AS SPECIFIED AME RELATION TO IT BORE TO

GENERAL NOTES CONT 30. THIS SDP IS SUBJECT TO WAIVER PETITION, WP-05-007 WHICH WAS A WAIVER TO SECTION 16.120(b)(4)(III)(b) OF THE SUBDIVISION REGULATIONS. THE WAIVER PETITION, DATED 01-25-05 INCLUDES THE FOLLOWING 3 CONDITIONS:

1. NO GRADING, REMOVAL OF VEGETATIVE COVER OR TREES, OR PLACEMENT OF NEW STRUCTURES IS PERMITTED WITHIN THE LIMITS OF WETLANDS, STREAM(S), OR THEIR BUFFERS, OR WITH IN THE 100-YEAR FLOODPLAIN. NO WAIVERS WILL BE GRANTED FOR IMPACTS TO THE FLOODPLAIN, STREAM OR THEIR BUFFERS.

2. ON THE CORRESPONDING RESUBDIVISION PLAT (F-05-009), A 35' STRUCTURE SETBACK SETBACK SHALL BE DELINEATED FROM THE EDGE OF THE ENVIRONMENTAL FEATURES (FLOODPLAIN, STREAM BANK BUFFER, STEEP SLOPES, WETLANDS BUFFER). THE HOUSE TO BE CONSTRUCTED ON LOT 48 MUST BE SITUATED WITHIN THE BUILDING ENVELOPE ESTABLISHED BY THE ZONING REGULATIONS AND THIS ENVIRONMENTAL SETBACK.

3. A ROAD CONSTRUCTION DRAWING MUST BE SUBMITTED WITH THE FINAL PLAT SHOWING THE CONSTRUCTION DETAILS FOR THE EXTENSITION OF THE EXISTING PIPE WITHIN THE 20' DRAINAGE AND UTILITY EASEMENT. IF THIS PIPE IS NOT EXTENDED, THIS WAIVER SHALL BE RENDERED INVALID.

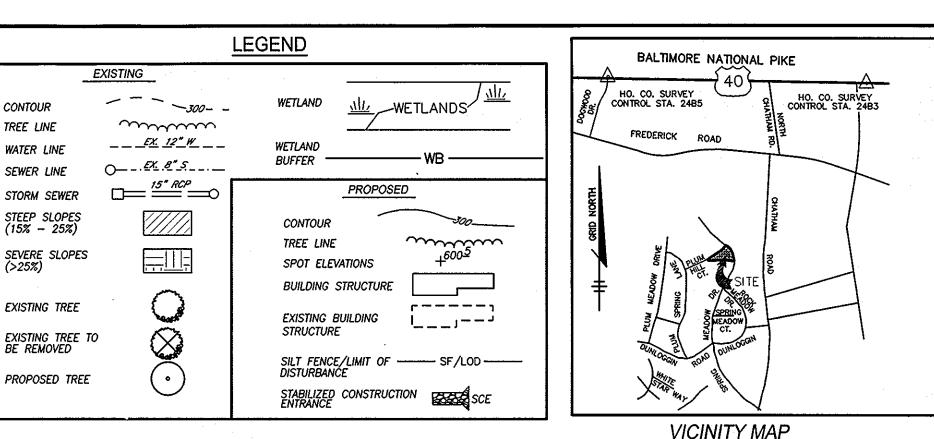
N 583,500;

N 583,250

10 YEAR SWALE FLOW OVER DRIVEWAY = 0.38 CFS.

NO CULVERT IS NECESSARY

DRIVEWAY STD. R.6.06



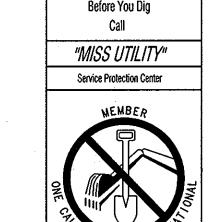
1" = 2000' ADC MAP COORD. 12-A-9

GENERAL NOTES

- 1. THE SUBJECT PROPERTY IS ZONED AS R-20 PER THE 2/2/04 COMPREHENSIVE ZONING PLAN AND THE "COMP LITE" ZONING REGULATION ADMENDMENTS EFFECTIVE 7/28/06.
- 2. 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.
- 3. NO GRADING, REMOVAL OF VEGETATIVE COVER OR TREES, PAVING AND NEW STRUCTURES SHALL BE PERMITTED WITHIN THE REQUIRED WETLANDS, STREAM(S) OR THEIR BUFFERS, FOREST CONSERVATION EASEMENT AREAS AND 100 YEAR FLOODPLAIN.
- 4. DRIVEWAYS SHALL BE PROVIDED PRIOR TO ISSUANCE OF A USE AND OCCUPANCY PERMIT FOR ANY NEW DWELLING TO ENSURE SAFE ACCESS FOR
- FIRE AND EMERGENCY VEHICLES PER THE FOLLOWING MINIMUM REQUIREMENTS: A) WIDTH - 12 FEET (16 FEET IF SERVING MORE THAN ONE RESIDENCE).
- B) SURFACE 6 INCHES OF COMPACTED CRUSHER RUN BASE WITH TAR & CHIP COATING (1-1/2" MINIMUM).
- C) GEOMETRY MAX. 15% GRADE, MAX. 10% GRADE CHANGE AND MIN, 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.
- 5. THIS SUBDIVISION IS SUBJECT TO SECTION 18.122B OF THE HOWARD COUNTY CODE, PUBLIC WATER AND PUBLIC SEWER SERVICE HAS BEEN PROVIDED UNDER CONTRACTS 125-S AND 442 W&S RESPECTIVELY.
- 6. PER SECTION 5.2.9 OF THE HOWARD COUNTY DESIGN MANUAL, VOLUME III ROADS AND BRIDGES, THIS RESUBDIVISION IS DOES NOT FALL WITHIN THE LOCATIONAL GUIDELINES TO REQUIRE A NOISE STUDY.
- 7. THE 100 YEAR FLOODPLAIN SHOWN ON THE PLAT WAS PREPARED BY RIEMER MUEGGE & ASSOCIATES, INC. ON OR ABOUT JUNE 2000. THE WETLANDS SHOWN ON THE PLAT WERE DELINEATED ON OR ABOUT MAY 2000.
- 8. THE COORDINATES SHOWN HEREON ARE BASED ON NAD 83, MARYLAND COORDINATE SYSTEM AS PROJECTED BY HOWARD COUNTY GEODETIC
- CONTROL STATIONS No. 24B5 (N 586956.227sft, E 1356570.80sft, ELEV. 390.253) AND 24CA (N 586506.180 sft, E 1361634.29, ELEV. 398.336). 9. THE PLAT IS BASED ON A FIELD RUN MONUMENTED BOUNDARY SURVEY PERFORMED ON OR ABOUT MAY 08, 2000 BY RIEMER MUEGGE AND
- ASSOCIATES, INC. TOPOGRAPHY AND SUPPLEMENTAL BOUNDARY VERIFICATION BY THE RBA GROUP, INC. ON JUNE 28, 2004.
- 10. FINANCIAL SURETY FOR THE REQUIRED LANDSCAPING IN THE AMOUNT OF \$600.00 FOR 2 SHADE TREES HAS BEEN POSTED WITH THE BUILDER'S GRADING PERMIT APPLICATION.
- 11. ALL UTILITIES ARE SHOWN EXISTING AND AVAILABLE FOR SERVICE.
- 12. ALL ROADWAYS SHOWN ARE PUBLIC AND EXISTING.
- 13. PUBLIC WATER AND SEWER IS AVAILABLE.
- 14. ALL UTILITIES AND EXISTING FEATURES ARE REFERENCED FROM APPROVED HOWARD COUNTY WATER MAIN PLAN WS-208-W AND WATER AND SEWER CONTRACT # 14-3503-D & 10-1214-D. LOCATION OF THESE FEATURES SHOWN HEREON ARE APPROXIMATE LOCATIONS FOR CONTRACTOR'S INFORMATION. THE CONTRACTOR SHALL LOCATE EXISTING FEATURES IN ADVANCE AND TAKE NECESSARY ACTIONS TO ENSURE THE PROTECTION AND PRESERVATION OF THESE FEATURES. ANY DAMAGE TO THESE FEATURES DURING THE CONSTRUCTION PROCESS WILL BE REPAIRED IMMEDIATELY AND WILL BE UNDER THE CONTRACTOR'S EXPENSE.
- 15. THE CONTRACTOR WILL NOTIFY "MISS UTILITY" AT 1-800-257-7777 AT LEAST 48 BUSINESS-WORKING HOURS IN ADVANCED PRIOR TO ANY CONSTRUCTION AND EXCAVATION.
- 16. THE CONTRACTOR WILL NOTIFY THE HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS/BUREAU OF ENGINEERING/CONSTRUCTION INSPECTION DIVISION AT (410) 313-1880 AT LEAST FIVE WORKING DAYS PRIOR TO PROCEEDING WITH ANY EXCAVATION WORK.
- 17. WETLANDS, A STREAM, AND THEIR BUFFERS ARE PRESENT ON THE SITE.
- 18. TRAFFIC CONTROL DEVICES, MARKINGS, AND SIGNAGE SHALL BE PLACED IN ACCORDANCE WITH THE LATEST ADDITION OF THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD). ALL STREET AND REGULATORY SIGNS SHALL BE PLACED PRIOR TO ANY PLACEMENT OF
- 19. A CERTIFIED LANDSCAPE PLAN IS ON-FILE WITH THE RECORDED PLAT # 18105 AND HAS BEEN PREPARED IN ACCORDANCE WITH SECTION 16.124 OF THE HOWARD COUNTY CODE AND LANDSCAPE MANUAL.
- 20. THIS PROJECT COMPLIES WITH THE REQUIREMENTS OF SECTION 16.1200 OF THE HOWARD COUNTY CODE FOR FOREST CONSERVATION BY A FEE-IN-LIEU PAYMENT OF \$2359.80 TO THE HOWARD COUNTY FOREST CONSERVATION FUND, PER F-05-009.
- 21. NO BURIAL GROUNDS OR CEMETERIES EXIST ON THIS SITE. 22. FOR DRIVEWAY ENTRANCE DETAILS, REFER TO HOWARD COUNTY DESIGN MANUAL VOLUME IV, DETAIL R.6.06.
- 23. THIS PLAN IS FOR HOUSE SITING AND LOT GRADING ONLY. IMPROVEMENTS SHOWN WITHIN THE RIGHT-OF-WAYS ON THIS SITE DEVELOPMENT
- PLAN ARE NOT TO BE USED FOR CONSTRUCTION. FOR CONSTRUCTION USE, SEE APPROVED FINAL PLANS F-05-009 & APPROVED WATER & SEWER CONTRACT PLANS.
- 26. SHC ELEVATION SHOWN IS LOCATED AT THE PROPERTY LINE.
- 27. SOIL BORINGS (SB-1) TESTS WERE PERFORMED BY MARSHALL ENGINEERING, INC. ON FEB. 2003

ADDRESS CHART

28. NO STORM WATER MANAGEMENT REQUIRED/PROVIDED PER CHAPTER 5 OF SWM MANUAL PAGE 5-1 DISTURBED AREA LESS THAN 5,000 SQ. FT. 29. THERE IS A 35-FOOT ENVIRONMENTAL SETBACK FROM THE EXISTING FLOODPLAIN, DRAINAGE AND UTILITY EASEMENT.



48 Hours

1	
"MISS UTILITY"	,
Service Protection Center	
HEMBER	
9	
ONE CHIL SYSTEMS INTERNET	
SYSTEMS INTERNA	
044 704 5055	
I CALL TOLL FREE I	

1-800-257-7777

LOT/PARCEL# | STREET ADDRESS Lot 48 / P. 1108 3746 Spring Meadow Drive PERMIT INFORMATION CHART Subdivision Name Lot/Parcel No. Lot 48 / P. 1108 Sect. 7 / Area 2 **DUNLOGGIN II** Tax Map No. Census Tract Book Plat # or L/F 10 602306 18105 R-20 24 2nd ELEC. DIST. Vater Code 1-F-08 5753204

Sheet Index		
Sheet Title	Sheet No.	
Site Development, Landscape, Sediment and Erosion Control Plan	1 of 2	
Drainage Area Map, Sediment and Erosion Control Details	2 of 2	

Developer's/Builders Certificate

FLOODPLAIN, DRAMAGE

PLAT #14477

-AND UTILITY EASEMENT

T OF CORRETION

LOT 23A

MICHAEL AND

LINDA DEUTCH

DUNLOGGIN II

SECTION No.

AREA 2 AT No. 10680

I/We certify that the landscaping shown on this plan will be done according to plan, section 16.124 of the Howard County Code and the Howard County Landscape Manual. I/We further certify that upon completion a Certification of Landscape Installation, accomplished by an executed one year quarantee of plant materials, will be submitted to the Department of Planning and Zoning

BY DATE DESCRIPTION **REVISIONS**

3750 SPRING MEADOW DRIV

DUNLOGGIN II, SECTION 7

LOT 49

\PLAT #18105





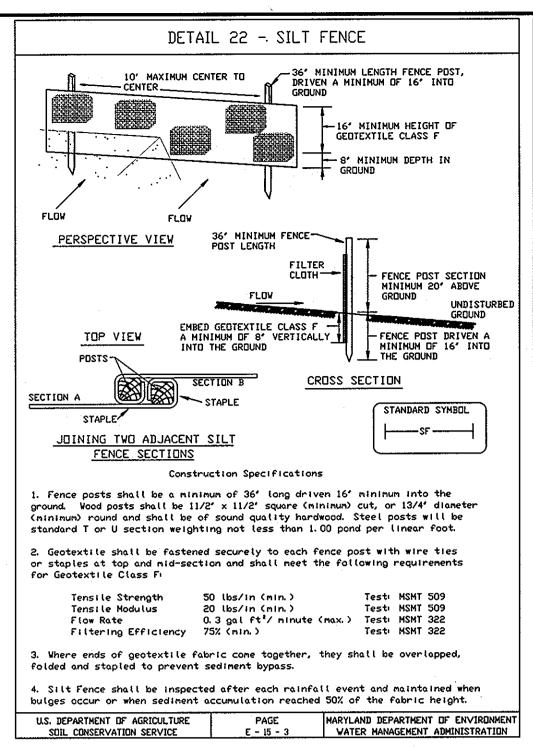
OWNER/DEVELOPER: CREIGTON E NORTHROP III 12345 WAKE FOREST ROAD (410) 531 - 0321

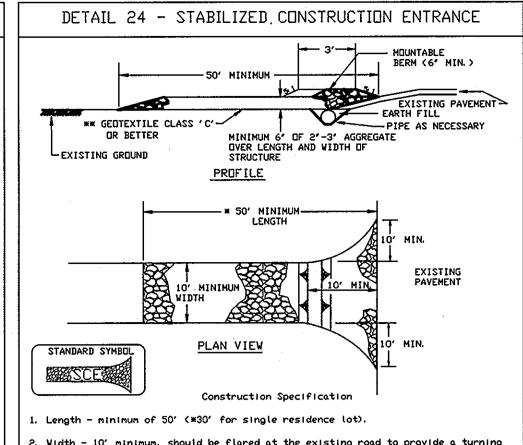
CLARKSVILLE, MD 21029 BUILDER: CARRIGAN HOMES, INC. 9812 CAITLINS COURT ELLICOTT CITY, MD 21042

(410) 465 - 7755

SCALE: DRAWN BY: DW/KG CHECKED BY: KH 04/23/07 м3904.00 JOB NO. 1 OF 2 SHEET NO.

SDP AND SEC PLAN **DUNLOGGIN II** SECTION 7, AREA 2, LOT 48 SINGLE FAMILY DETACHED Carrigan Homes TAX MAP 24 GRID 10 PARCEL 1108 ELECTION DISTRICT NO. 2 ZONE R-20 Howard County, Maryland





2. Vidth - 10' minimum, should be flared at the existing road to provide a turning

to placing stone. **The plan approval authority may not require single family

3. Geotextile fabric (filter cloth) shall be placed over the existing ground prior

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

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 mountable 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 construction entrance. MARYLAND DEPARTMENT OF ENVIRONMENT U.S. DEPARTMENT OF AGRICULTURE F - 17 - 3 SOIL CONSERVATION SERVICE WATER MANAGEMENT ADMINISTRATION

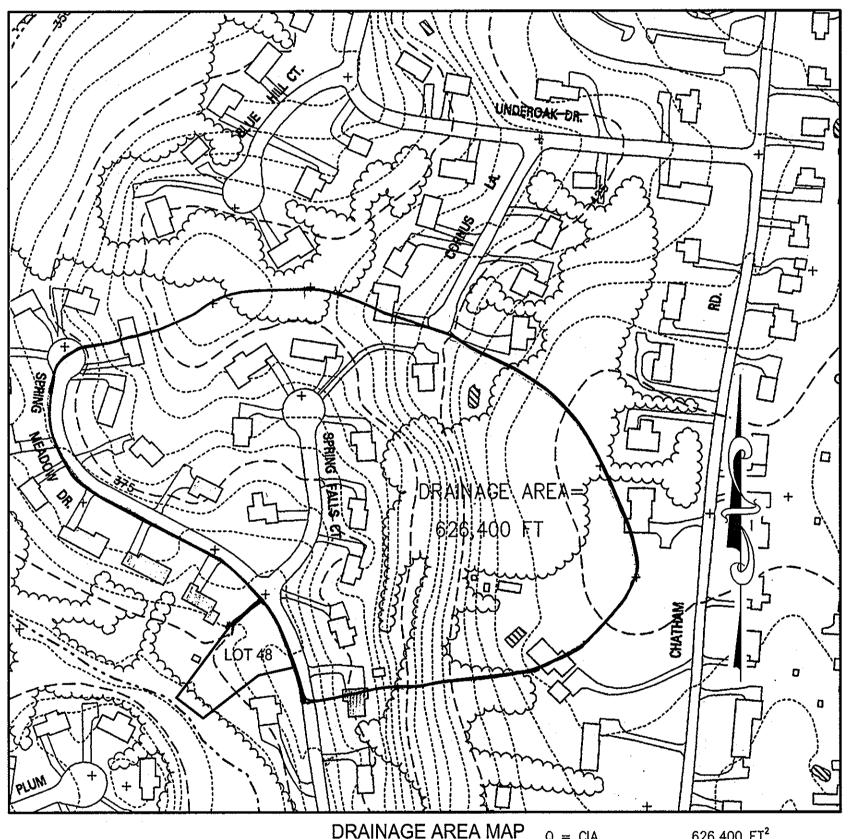
626,400 FT²

C = 0.30

I = 5.1 in /hr.

A = 14.38 Acres

 $Q_0 = 22.00 \text{ cfs}$



1'' = 200'

"I certify that this plan for sediment and erosion control represents a practial and workable plan based on my personal knowledge of the site conditions and that it was perpared in accordance with the requirements of the Howard Soil Conservation District." ture of Engineer (print name below signature)

ENGINEER'S CERTIFICATE

REVIEWED FOR HOWARD COUNTY SCD AND MEETS TECHNICAL REQUIREMENTS 5/4/07

THIS DEVELOPMENT PLAN IS APPROVED FOR SOIL ERSION AND SEDIMENT CONTROL BY HOWARD SOIL CONSERVATION DISTRIC 3/4/0

DATE DEPARTMENT OF PLANNING AND ZONING

/ DATE

21.0 STANDARD AND SPECIFICATIONS FOR TOPSOIL

PLACEMENT OF TOPSOIL OVER A PREPARED SUBSOIL PRIOR TO ESTABLISHMENT OF PERMANENT VEGETATION. <u>PURPOSE. TO PROVIDE A SUITABLE SOIL MEDIUM FOR VEGETATIVE GROWTH</u>

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. THE SOIL IS SO ACIDIC THAT TREATMENT WITH LIMESTONE IS NOT FEASIBLE.

II. FOR THE PURPOSE OF THESE STANDARDS AND SPECIFICATIONS. AREAS HAVING SLOPES STEEPER THAN 2:1 REQUIRE SPECIAL CONSIDERATION AND DESIGN FOR ADEQUATE STABILIZATION. AREAS HAVING SLOPES STEEPER THAN 2:1 SHALL HAVE THE APPROPRIATE STABILIZATION SHOWN ON THE PLANS.

CONSTRUCTION AND MATERIAL SPECIFICATIONS 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, SILT LOAM, SANDY CLAY LOAM, LOAMY SAND. OTHER SOILS MAY BE USED IF RECOMMENDED BY AN AGRONOMIST OR SOIL SCIENTIST AND APPROVED BY THE APPROPRIATE APPROVAL AUTHORITY. REGARDLESS, TOPSOIL SHALL NOT BE A MIXTURE OF CONTRASTING TEXTURED SUBSOILS AND SHALL CONTAIN LESS THAN 5% BY VOLUME OF CINDERS, STONES, SLAG, COARSE FRAGMENTS, GRAVEL, STICKS, ROOTS, TRASH, OR OTHER MATERIALS LARGER THAN 1 1/2" IN DIAMETER.

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. FOR SITES HAVING DISTURBED AREAS UNDER 5 ACRES:

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 IN THE FOLLOWING PROCEDURES.

I. PLACE TOPSOIL (IF REQUIRED) AND APPLY SOIL AMENDMENTS AS SPECIFIED IN %%U20.0 VEGETATIVE STABILIZATION%XU - SECTION I - VEGETATIVE STABILIZATION METHODS AND MATERIALS.

IV. 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 DEMONSTRATE A PH OF LESS THAN 6.0, SUFFICIENT LIME SHALL BE PRESCRIBED TO RAISE THE PH TO 6.5 OR

B. ORGANIC CONTENT OF TOPSOIL SHALL BE NOT LESS THAN 1.5 PERCENT BY WEIGHT.

C. TOPSOIL HAVING SOLUBLE SALT CONTENT GREATER THAN 500 PARTS PER MILLION SHALL NOT BE USED. D. NO SOD OR SEED SHALL BE PLACED ON SOIL WHICH HAS BEEN TREATED WITH SOIL STERILANTS OR CHEMICALS USED FOR WEED CONTROL UNTIL SUFFICIENT TIME HAS ELAPSED (14 DAYS MIN.) TO PERMIT DISSIPATION OF PHYTO-TOXIC MATERIALS.

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

II. PLACE TOPSOIL (IF REQUIRED) AND APPLY SOIL AMENDMENTS AS SPECIFIED IN %2020.0 VEGETATIVE STABILIZATION% - SECTION I - VEGETATIVE STABILIZATION 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 OR OTHER OPERATIONS SHALL BE CORRECTED IN ORDER TO PREVENT THE FORMATION OF DEPRESSIONS OR WATER POCKETS.

IV. TOPSOIL SHALL NOT BE PLACED WHILE THE TOPSOIL OR SUBSOIL IS IN A FROZEN OR MUDDY CONDITION, WHEN THE SUBSOIL IS EXCESSIVELY WET OR IN A CONDITION THAT MAY OTHERWISE BE DETRIMENTAL TO PROPER GRADING AND SEEDBED PREPARATION.

VI. ALTERNATIVE FOR PERMANENT SEEDING - INSTEAD OF APPLYING THE FULL AMOUNTS OF LIME AND COMMERCIAL FERTILIZER, COMPOSTED SLUDGE AND AMENDMENTS MAY BE APPLIED AS SPECIFIED BELOW:

I. COMPOSTED SLUDGE MATERIAL FOR USE AS A SOIL CONDITIONER FOR SITES HAVING DISTURBED AREAS OVER 5 ACRES SHALL BE TESTED TO PRESCRIBE AMENDMENTS AND FOR SITES HAVING DISTURBED AREAS UNDER 5 ACRES SHALL CONFORM TO THE FOLLOWING REQUIREMENTS:

A. COMPOSTED SLUDGE SHALL BE SUPPLIED BY, OR ORIGINATE FROM, A PERSON OR PERSONS THAT ARE PERMITTED (AT THE TIME OF ACQUISITION OF THE COMPOST) BY THE MARYLAND DEPARTMENT OF THE ENVIRONMENT UNDER COMAR 26.04.06.

B. COMPOSTED SLUDGE SHALL CONTAIN AT LEAST 1 PERCENT NITROGEN, 1.5 PERCENT PHOSPHORUS, AND 0.2 PERCENT POTASSIUM AND HAVE A PH OF 7.0 TO 8.0. IF COMPOST DOES NOT MEET THESE REQUIREMENTS. THE APPROPRIATE CONSTITUENTS MUST BE ADDED TO MEET THE REQUIREMENTS PRIOR TO USE.

C. COMPOSTED SLUDGE SHALL BE APPLIED AT A RATE OF 1 TON/1,000 SQUARE FEET.

II. COMPOSTED SLUDGE SHALL BE AMENDED WITH A POTASSIUM FERTILIZER APPLIED AT THE RATE OF 4 LB/1,000 SQUARE FEET, AND 1/3 THE NORMAL LIME APPLICATION RATE. REFERENCES: GUIDELINE SPECIFICATIONS, SOIL PREPARATION AND SODDING, MD-VA, PUB.#1, COOPERATIVE EXTENSION SERVICE, UNIVERSITY OF MARYLAND AND VIRGINIA POLYTECHNIC INSTITUTES. REVISED 1973.

SEQUENCE OF CONSTRUCTION

OBTAIN ALL NECESSARY PERMITS AND HAVE ALL ---- 4 WEEKS EXISTING UTILITIES MARKED IN THE FIELD. SCHEDULE AND ATTEND A PRE-CONSTRUCTION MEETING ---- 1 DAY WITH THE ASSIGNED COUNTY INSPECTOR AND RESOLVE ALL SITE RELATED ISSUES. 3. INSTALL STABILIZED CONSTRUCTION ENTRANCE AS ---- 3 DAYS SHOWN AND SUPER SILT FENCE AND OBTAIN INSPECTOR APPROVAL OF INSTALLATION BEFORE PROCEEDING. 4. CLEAR AND GRUB AREAS TO BE GRADED AND BEGIN ---- 2 WEEKS GRADING OPERATIONS. MAINTAIN ALL SEDIMENT CONTROL DEVICES AS NECESSARY. 5. AS ROUGH GRADING IS ACHIEVED, BEGIN UTILITY AND ---- 16 WEEKS BUILDING CONSTRUCTION. UPON COMPLETION OF WORK IN A GIVEN AREA, ---- 1 DAY STABILIZE AREA IMMEDIATELY. UPON COMPLETION OF BUILDING CONSTRUCTION AND ---- 1 DAY REMOVAL OF ALL HEAVY EQUIPMENT FROM SITE. INSTALL SURFACE COURSE PAVING

FOLLOWING SCHEDULES:

THE COUNTY INSPECTOR.

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

REMAINING AREAS. UPON COMPLETE STABILIZATION OF

ALL AREAS, INSTALL INFILTRATION TRENCH AND REMOVE

SEDIMENT CONTROL DEVICES ONLY UPON APPROVAL OF

UPON COMPLETION OF ALL WORK, STABILIZE ALL

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

SOIL AMENDMENTS: IN LIEU OF SOIL TESTS RECOMMENDATIONS. USE ONE OF THE

1. PREFERRED - APPLY 2 TONS PER ARCE 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 DISK INTO UPPER THREE INCHES OF SOIL AT THE TIME OF SEEDING APPLY 400 LB. PER ACRE 30-0-0 UREAFORM FERTILIZER (9 LBS/1000 SQ FT.)

2. ACCEPTABLE - APPLY 2 TONS PER ACRE DOLOMETRIC LIMESTONE (2 LBS/1000 SQ. FT.) BEFORE SEEDING. HARROW OR DISC INTO UPPER THREE INCHES OF SOIL.

---- 1 WEEK

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/100 SQ. FT.) OF WEEPING LOVEGRASS . DURING THE PERIOD OF OCTOBER 16 THRU FEBRUARY 28, PROTECT SITE BY: OPTION (1) 2 TONS PER ACRE OF WELL ANCHORED STRAW MULCH AND SEED AS SOON AS POSSIBLE IN THE SPRING. OPTION (2) USE SOD. OPTION (3) SEED WITH 60 LBS/ACRE KENTUCKY 31 TALL FESCUE AND MULCH WITH 2 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 GRAN 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.

FEMPORARY SEEDING NOTES

APPLY TO GRADED OR CLEARED AREAS LIKELY TO BE REDISTURBED WHERE A SHORT-TERM VEGETATIVE COVER IS NEEDED.

SEEDBED PREPARATION: LOOSEN UPPER THREE INCHES OF SOIL BY RAKING, DISKING 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 THE PERIODS MARCH 1 THRU APRIL 30, AND 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 OF MAY 1 THRU AUGUST 14, SEED WITH 3 LBS PER ACRE OF WEEPING LOVEGRASS (.07 LBS/1000 SQ. FT.) FOR THE PERIOD OF NOVEMBER 16 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 GRAN 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 1983 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL FOR RATE AND METHODS NOT COVERED.

SEDIMENT AND EROSION CONTROL NOTES

- 1. A MINIMUM OF 48 HOURS NOTICE MUST BE GIVEN TO THE HOWARD COUNTY DEPARTMENT OF INSPECTIONS, LICENSES AND PERMITS, SEDIMENT CONTROL DIVISION PRIOR TO THE START OF ANY CONSTRUCTION (313-1855).
- 2. ALL VEGETATIVE AND STRUCTURAL PRACTICES ARE TO BE INSTALLED ACCORDING TO THE PROVISIONS OF THIS PLAN AND ARE TO BE INCONFORMANCE WITH THE MOST CURRENT "MD STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL". AND REVISIONS HERETO.
- 3. FOLLOWING THE INITIAL SOIL DISTURBANCE OR REDISTURBANCE, PERMANENT OR TEMPORARY STABILIZATION SHALL BE COMPLETE WITHIN: A) SEVEN (7) CALENDAR DAYS FOR ALL PERIMETER SEDIMENT CONTROL STRUCTURES, DIKES, PERIMETER SLOPES AND ALL SLOPES GREATER THAN 3:1, B) 14 DAYS AS TO ALL OTHER DISTURBED OR GRADED AREAS ON THE PROJECT SITE.
- 4. ALL SEDIMENT TRAPS/BASINS SHOWN MUST BE FENCED AND WARNING SIGNS POSTED AROUND THEIR PERIMETER IN ACCORDANCE WITH VOL. 1, CHAPTER 12, OF THE HOWARD COUNTY DESIGN MANUAL, STORM DRAINAGE.
- 5. ALL DISTURBED AREAS MUST BE STABILIZED WITHIN THE TIME PERIOD SPECIFIED ABOVE IN ACCORDANCE WITH THE MOST CURRENT MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL AND SEDIMENT CONTROL FOR PERMANENT SEEDINGS (SEC. 51), SOD (SEC. 54), TEMPORARY SEEDING (SEC. 50), AND MULCHING (SEC. 52). TEMPORARY STAB ILIZATION WITH MULCH ALONE CAN ONLY BE DONE WHEN RECOMMENDED SEEDING DATES DO NOT ALLOW FOR PROPER GERMINATION AND ESTABLISHMENT OF GRASSES
- ALL SEDIMENT CONTROL STRUCTURES ARE TO REMAIN IN PLACE AND ARE TO BE MAINTAINED IN OPERATIVE CONDITION UNTILL PERMISSION FOR THEIR REMOVAL HAS BEEN OBTAINED FROM THE HOWARD COUNTY SEDIMENT CONTROL INSPECTOR.

7. SITE ANALYSIS:

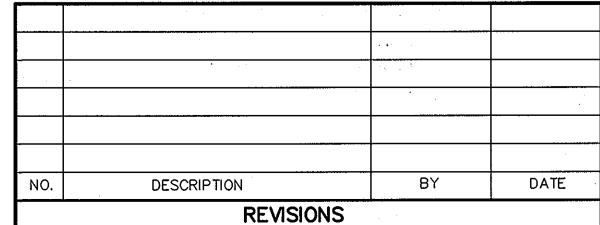
OTAL AREA OF THE SITE:	0.59 ACRES
REA DISTRUBED:	0.11 ACRES
REA TO BE ROOFED OR PAVED:	0.07 ACRES
REA TO BE VEGETATIVELY STABILIZED:	0.04 ACRES
OTAL CUT:	150 CU. YDS.
OTAL FILL:	N/A CU. YDS.
FFSITE WASTE/BORROW AREA LOCATION: APPROVED	HOWARD COUNTY SITE
OTAL AMOUNT OF SILT FENCE:	312 LF
OTAL AMOUNT OF SUPER SILT FENCE:	N/A LF
OTAL AMOUNT OF SUPER DIVERSION FENCE:	N/A LF
OTAL AMOUNT OF EARTH DIKE:	N/A LF

N/A LF

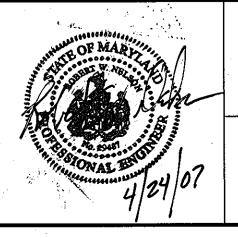
8. ANY SEDIMENT CONTROL PRACTICE WHICH IS DISTURBED BY GRADING ACTIVITY FOR PLACEMENT OF UTILITIES MUST BE REPAIRED ON THE SAME DAY OF DISTURBANCE

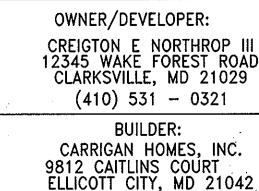
OTAL AMOUNT OF EROSION CONTROL MATTING

- ADDITIONAL SEDIMENT CONTROLS MUST BE PROVIDED IF DEEMED NECESSARY BY THE HOWARD COUNTY DEPT. OF PUBLIC WORKS SEDIMENT CONTROL INSPECTOR.
- 10. ON ALL SITES, 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 BEOFRE PROCEEDING WITH ANY OTHER EARTH DISTURBANCE OR GRADING. OTHER BUILDING OR GRADING INSPECTION APPROVALS MAY NOT BE AUTHORIZED UNTIL THIS INITIAL APPROVAL BY THE INSPECTION AGENCY IS MADE.
- TRENCHES FOR THE CONSTRUCTION OF UTILITIES IS LIMITED TO THREE PIPE LENGTHS OR THAT WHICH CAN BE BACKFILLED AND STABILIZED WITHIN ONE WORKING DAY, WHICHEVER IS SHORTER.
- 12. WITH THE APPROVAL OF THE SEDIMENT CONTROL INSPECTOR, MINOR FIELD ADJUSTMENTS CAN AND WILL BE MADE TO INSURE THE CONTROL OF ANY SEDIMENT. CHANGES IN THE SEDIMENT CONTROL PRACTICES REQUIRE PRIOR APPROVAL OF THE SEDIMENT CONTROL INSPECTOR AND THE HOWARD COUNTY SOIL CONSERVATION DISTRICT.
- 13. ANY CHANGE TO THE GRADING PROPOSED ON THIS PLAN REQUIRES RE-SUBMISSION TO HOWARD COUNTY SOIL CONSERVATION DISTRICT FOR APPROVAL.
- 14. ANY VARIATION FROM THE SEQUENCE OF OPERATIONS STATED ON T HIS PLAN REQUIRES THE APPROVAL OF THE SEDIMENT CONTROL INSPECTOR AND THE HOWARD COUNTY SOIL CONSERVATION DISTRICT PRIOR TO THE INITIATION OF THE CHANGE.
- 15. AT THE END OF EACH WORK DAY ALL SEDIMENT CONTROL PRACTICE WILL BE INSPECTED AND LEFT IN THE OPERATIONAL
- 16. ALL SEDIMENT AND EROSION CONTROL SHALL BE IN ACCORDANCE WITH THE AGREEMENT MADE BETWEEN COLUMBIA ASSOCIATION AND HSCD AND AS AMENDED 8/1/90.
- 17. THE DEVELOPER IS RESPONSIBLE FOR THE ACQUISITION OF ALL EASEMENTS, RIGHTS. AND/OR RIGHTS-OF-WAYS THAT MAY BE REQUIRED FOR THE SEDIMENT AND EROSION CONTROL PRACTICES. STORMWATER MANAGEMENT PRACTICES AND THE DISCHARGE OF STORMWATER ONTO OR ACROSS ADJACENT OR DOWNSTREAM PROPERTIES INCLUDED IN THIS PLAN. HE IS ALSO RESPONSIBLE FOR THE ACQUISITION OF ALL EASEMENTS, RIGHTS AND/OR RIGHTS-OF-WAYS THAT MAY BE REQUIRED FOR GRADING AND/OR WORK ON ADJACENT PROPERTIES INCLUDED IN THIS PLAN.
- 18. THE SEDIMENT CONTROL APPROVALS ON THIS PLAN EXTEND ONLY TO AREAS AND PRACTICES IDENTIFIED AS PROPOSED WORK AND SHALL APPLY AS IF SHOWN ON ALL PLANS.
- 19. THE APPROVAL OF THE PLAN FOR SEDIMENT AND EROSION CONTROL DOES NOT RELIEVE THE COUNTY REQUIREMENTS PERTAINING TO ENVIRONMENTAL ISSUES. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO IDENTIFY THE SPOIL/BORROW SITE AND NOTIFY AND GAIN APPROVAL FROM TEH SEDIMENT CONTROL INSPECTOR OF THE SITE AND IT'S GRADING NUMBER AT THE TIME FO CONSTRUCTION.









(410) 465 - 7755

SCALE: DRAWN BY: DW/KG CHECKED BY: KH DATE: 04/23/07

SHEET NO.

GRAPHIC SCALE 1"=30" M3904.00 JOB NO.

2 OF 2

SEC NOTES AND DETAILS **DUNLOGGIN I**

SECTION 7, AREA 2, LOT 48 SINGLE FAMILY DETACHED PLANS PREPARED FOR: Carrigan Homes

TAX MAP 24 GRID 10 PARCEL 1108 ELECTION DISTRICT NO. 2 ZONE R-20

Howard County, Maryland