

CHARTLEY II

	42.00	
OPT. 4.00'x12.00' BASEMENT STAIRS	[11.00]	-2.00'x16.33' FIRST FLOOR OVERHANG
	15.67' (8.00,15.33'	OPT. 4.00'x15.63' ROOM EXTENSION
S OPT. BAY	86. 88. 89.	J OPT. 2.00'x5.00' FIREPLACE
2.00°x10.00°	21.00° GAR.	
6' X 10' OPT. 1		OPT. ELEV.

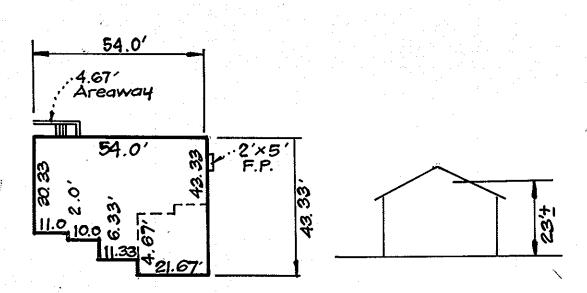
!	54.00		
	54.00'  OPT. 5.67'x2.33' FIREPLACE		O'X12' Sunfoom  PT. 2.00'x8.00'.  BAY WINDOW
WINDOW 2.00°x10.00°	3.17° + 21.00° &	19.63.	
2.00 XI0.00	12.67° 2.67 12.0°	GAR. 20.67	100 /w

	SHEET INDEX for LOT 12
Sheet No.	Description
1	SITE DEVELOPMENT PLAN
2, .	SEDIMENT & EROSION CONTROL PLAN
3 .	NEW RETAINS WALL SHIT FENCE
A:	STATISTANDE TOGON CONTRACTOR

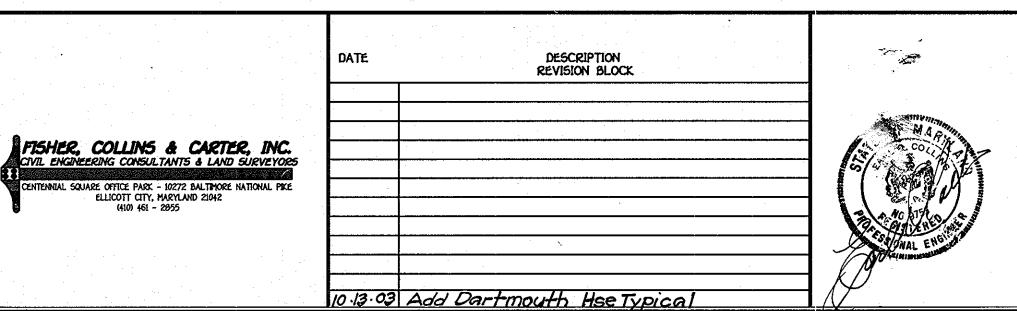
ADDRESS CHART		
LOT	STREET ADDRESS	
9	5925 STREAM VALLEY LANE	
10	5921 STREAM VALLEY LANE	
11	5917 STREAM VALLEY LANE	
12	5913 - STREAM VALLEY LANE	
13	5909 STREAM VALLEY LAND	

5YMBOL	DESCRIPTION
	EXISTING CONTOUR 2' INTERVAL
	EXISTING CONTOUR 10" INTERVAL
	PROPOSED CONTOUR 2' INTERVAL
	PROPOSED CONTOUR 10' INTERVAL
+ 624	SPOT ELEVATION .
-5F5F-	SILT FENCE
FF	FIRST FLOOR ELEVATION
BE	BASEMENT ELEVATION
60	PROPOSED WALKOUT
55F55F	SUPER SILT FENCE
-xx -	TREE PROTECTION
L.O.D.	LIMIT OF DISTURBANCE
	EXISTING SHADE TREES PER F-99-163 & F-02-010.
*	EXISTING PINE TREES PER F-99-163 & F-02-010.

LEGEND



DARTMOUTH



ENG	ineer's	CERTIF	ICATE	
"I certify that this plan for sediment plan based on my personal knowledge	of the site	conditions	and that	it was prepared in
accordance with the requirements of	the Howard	Soil Cons	ervation Di	
Silvery of Engineer	AGL D COLL	ING .		8.26.02

DEVELOPER'S CERTIFICATE /We certify that all development and construction will be done according to this plan for ediment 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 periodic on-site inspection by the Howard Soil Conservation District."

BRIAN BOY

OWNER/DEVELOPER CORNERSTONE HOLDINGS, .L.C.C. 9691 NORFOLK AVENUE LAUREL, MARYLAND 20723

SECTION/AREA LOT NO. SUBDIVISION 9 THRU 13 ROCKBURN VIEW BLOCK NO. ZONE TAX/ZONE ELEC. DIST. CENSUS TR. R-20 37 SEWER CODE

SITE DEVELOPMENT PLAN LOT 12

SINGLE FAMILY DETACHED

ROCKBURN VIEW SECTION TWO

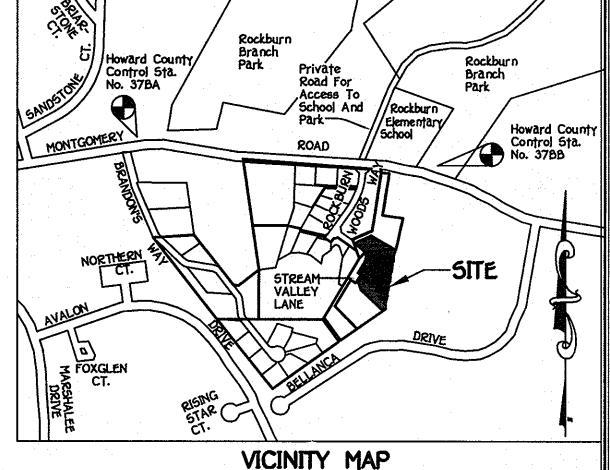
LOTS 9 THRU 13 PARCEL No.: 329 GRID 4 TAX MAP No.: 37 FIRST ELECTION DISTRICT HOWARD COUNTY, MARYAND 5CALE: 1"= 30' DATE: JANUARY, 2002

SHEET 1 OF 4

BENCH MARKS

37 BA. N.563705.610 E.1376343.172 ELE.394.786

37 BB. N.563663.415 E.1378040.471 ELE.373.822



GENERAL NOTES:

1. THE CONTRACTOR SHALL NOTIFY THE CONSTRUCTION INSPECTION DIVISION AT (410) 313-1880 AT LEAST (5) FIVE WORKING DAYS PRIOR TO THE START OF WORK.

2. THE CONTRACTOR SHALL NOTIFY "MISS UTILITY" AT 1-800-257-7777 AT LEAST 48 HOURS PRIOR TO ANY EXCAVATION WORK.

3. THIS PROJECT IS SUBJECT TO HOWARD COUNTY FILES: 5-99-10, F-02-10, P-01-10 AND F-99-163.

4. TOPOGRAPHIC IS TAKEN FROM FINAL ROAD CONSTRUCTION, GRADING AND STORMWATER MANAGEMENT PLANS F-99-163, F-02-176 & F-03-16.

5. BOUNDARY SURVEY PERFORMED BY: FISHER COLLINS AND CARTER, INC. ON OR ABOUT MARCH 1989.

6. HORIZONTAL AND VERTICAL CONTROL DATUM IS BASED ON HOWARD COUNTY GEODETIC

CONTROL STATIONS:

HOWARD COUNTY MONUMENT 37BA N 171842.2001 (METERS)

E 419510.2379 (METER5)

HOWARD COUNTY MONUMENT 3788 N 171804.9525 (METERS)

E 420027.5757 (METERS) 7. ANY DAMAGE TO THE COUNTY'S RIGHT-OF-WAY SHALL BE CORRECTED AT THE DEVELOPER'S EXPENSE.

6. THIS PLAN IS FOR HOUSE SITING AND LOT GRADING ONLY. IMPROVEMENTS SHOWN WITHIN THE RIGHTS-OF-WAY OF THE SITE DEVELOPMENT PLAN ARE NOT USED FOR CONSTRUCTION. FOR CONSTRUCTION SEE APPROVED ROAD CONTRUCTION PLANS: F-02-18AND/OR APPROVED WATER AND SEWER PLANS CONTRACT No. 14-3987-AND F-99-163 FOR STORM WATER MANAGEMENT PLANS.

9. CONTRACTOR WILL CHECK SEWER HOUSE CONNECTION ELEVATION AT PROPERTY LINE PRIOR

TO CONSTRUCTION. 10. SITE ANALYSIS DATA:

A. TOTAL PROJECT AREA: 1.7526 AC.\*

B. AREA OF PLAN SUBMITTED: 1.7526 AC.+ C. TOTAL NUMBERS OF LOTS: 5

D. SUBJECT PROPERTY ZONED R-20 PER 10/10/93 COMPREHENSIVE ZONING PLAN E. PROPOSED USE FOR SITE AND STRUCTURES: SINGLE FAMILY DETACHED DWELLING UNIT

F. NO RECREATIONAL AREA IS REQUIRED AS THE TOTAL NO. OF LOTS IS LESS THAN 20 G. RECREATIONAL OPEN SPACE REQUIREMENTS ARE PROVIDED SEE F-02-10 1. IN ACCORDANCE WITH SECTION 128 (AXI) OF THE HOWARD COUNTY ZONING REGULATIONS PORCHES, FIREPLACES, CHIMNEYS, EXTERIOR STAIRWAYS, DECKS AND BAY WINDOWS NOT

MORE THAN 16 FEET IN WIDTH MAY PROJECT NOT MORE THAN 4 FEET INTO ANY SETBACK; PORCHES OR DECKS. OPEN OR ENCLOSED MAY PROJECT NOT MORE THAN 10' INTO THE FRONT OR REAR YARD SETBACK.

12. THE FOREST CONSERVATION OBLIGATION WAS PROVIDED UNDER DEVELOPERS AGREEMENT F-02-10.

13. ALL DOWNSPOUTS ARE TO DRAIN TO THE PUBLIC ROAD.

14. STORM WATER MANAGEMENT WILL BE PROVIDED BY EXISTING DETENTION POND LOCATED ON LOT 7 PRESENTLY OWNED BY THE HOMEOWNER'S ASSOCIATION. WATER QUALITY IS PROVIDED BY RETENTION AND SHALLOW MARSH PER F-99-163.

15. THE FOREST CONSERVATION OBLIGATIONS FOR THIS SITE HAVE BEEN PROVIDED IN ACCORDANCE WITH SECTION 16.1200 OF THE SUBDIVISION AND LAND DEVELOPMENT REGULATIONS. A FOREST CONSERVATION SURETY IN THE AMOUNT OF \$7,840.80 HAS BEEN POSTED UNDER THE FINAL SUBDIVISION PLAN FOR 0.36 ARES OF REFORESTATION AS PART OF THE DEVELOPER'S AGREEMENT (F-02-018) AND PAYMENT OF A FEE-IN-LIEU FOR \$2,613.60 HAS BEEN MADE TO THE HOWARD COUNTY FOREST CONSERVATION FUND FOR 0.120 ACRES OF AFFORESTATION OBLIGATION.

16. CONTRACTOR TO USE HOWARD COUNTY STANDARD DETAIL R6.01 RESIDENTIAL DRIVEWAY ENTRANCE.

17. DRIVEWAY(6) SHALL BE PROVIDED PRIOR TO RESIDENTIAL OCCUPANCY IN INSURE SAFE ACCESS FOR FIRE AND EMERGENCY VEHICLES PER THE FOLLOWING MINIMUM REQUIREMENTS:

a) WIDTH - 12 FEET (14 FEET SERVING MORE THAN ONE RESIDENCE).

b) SURFACE - 6 INCHES ON COMPACTED CRUSHER RUN BASE WITH TAR AND CHIP COATING. (1-1/2 " MIN). 

MINIMUM OF 45 - FOOT TURNING RADIUS. d) STRUCTURES (CULVERT/BRIDGES) - CAPABLE OF SUPPORTING 25

GROSS TONS (H25 LOADING). e) DRAINAGE ELEMENTS - CAPABLE OF SAFELY PASSING 100-YEAR FLOOD WITH NO MORE THAN I FOOT DEPTH OVER DRIVEWAY SURFACE.

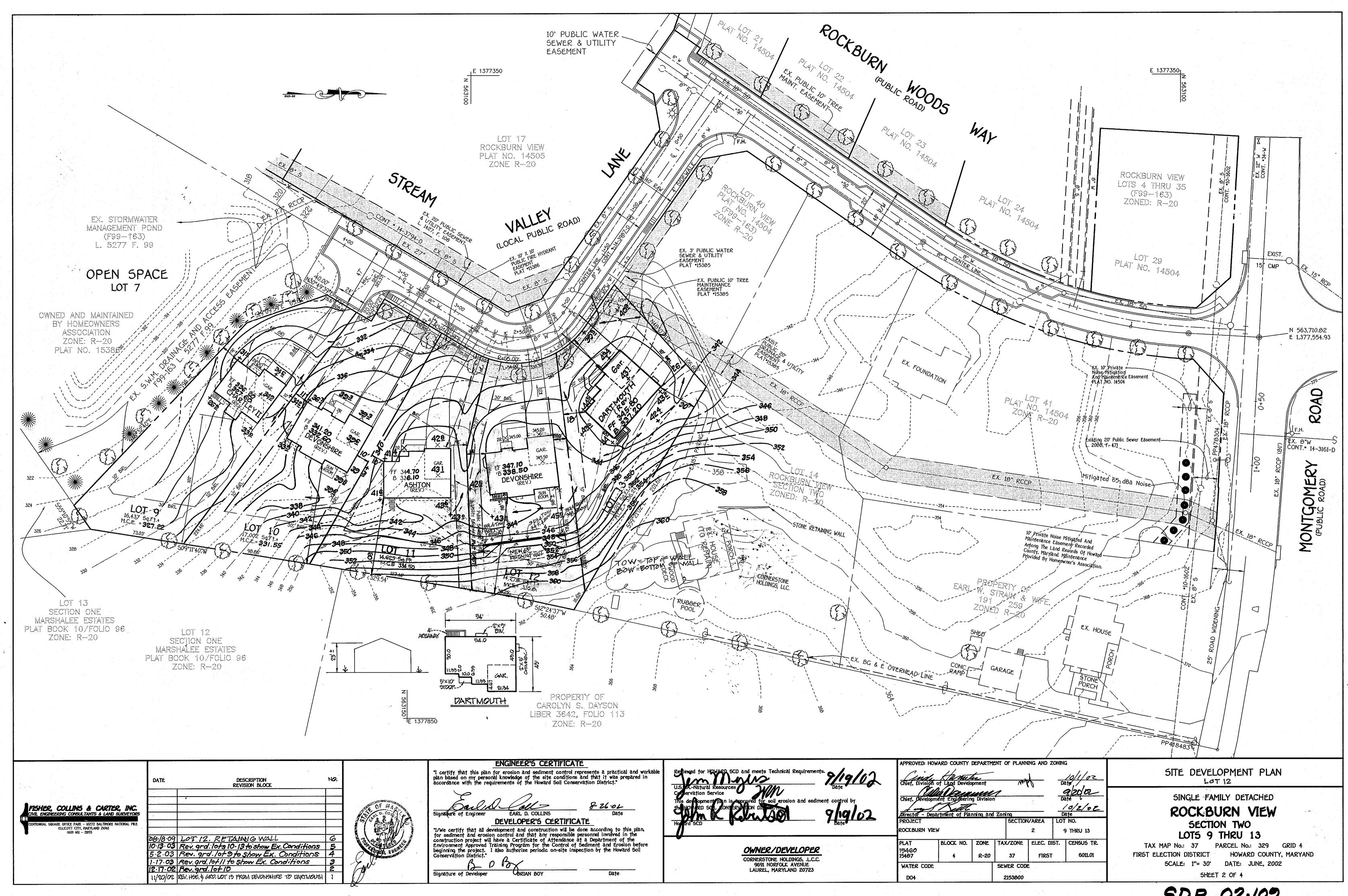
f) STRUCTURE CLEARANCES - MINIMUM 12 FEET. g) MAINTENANCE - SUFFICIENT TO INSURE ALL WEATHER USE.

18. THE LANDSCAPING OBLIGATIONS FOR THIS SITE HAVE BEEN PROVIDED IN ACCORDANCE WITH SECTION 16.124 OF HOWARD COUNTY CODE AND THE LANDSCAPE MANUAL. FINANCIAL SURETY FOR THE REQUIRED PERIMETER LANDSCAPING HAS BEEN POSTED AS PART OF THE DPW DEVELOPER'S AGREEMENT F-02-010 AND THE FINANCIAL SURETY FOR THE REQUIRED LANDSCAPING ALONG THE PERIMETER EDGE BETWEEN LOT 1 AND THE SWM FACILITY LOCATED ON OPEN SPACE LOT 7 HAS BEEN POSTED AS PART OF THE DPW DEVELOPER'S AGREEMENT

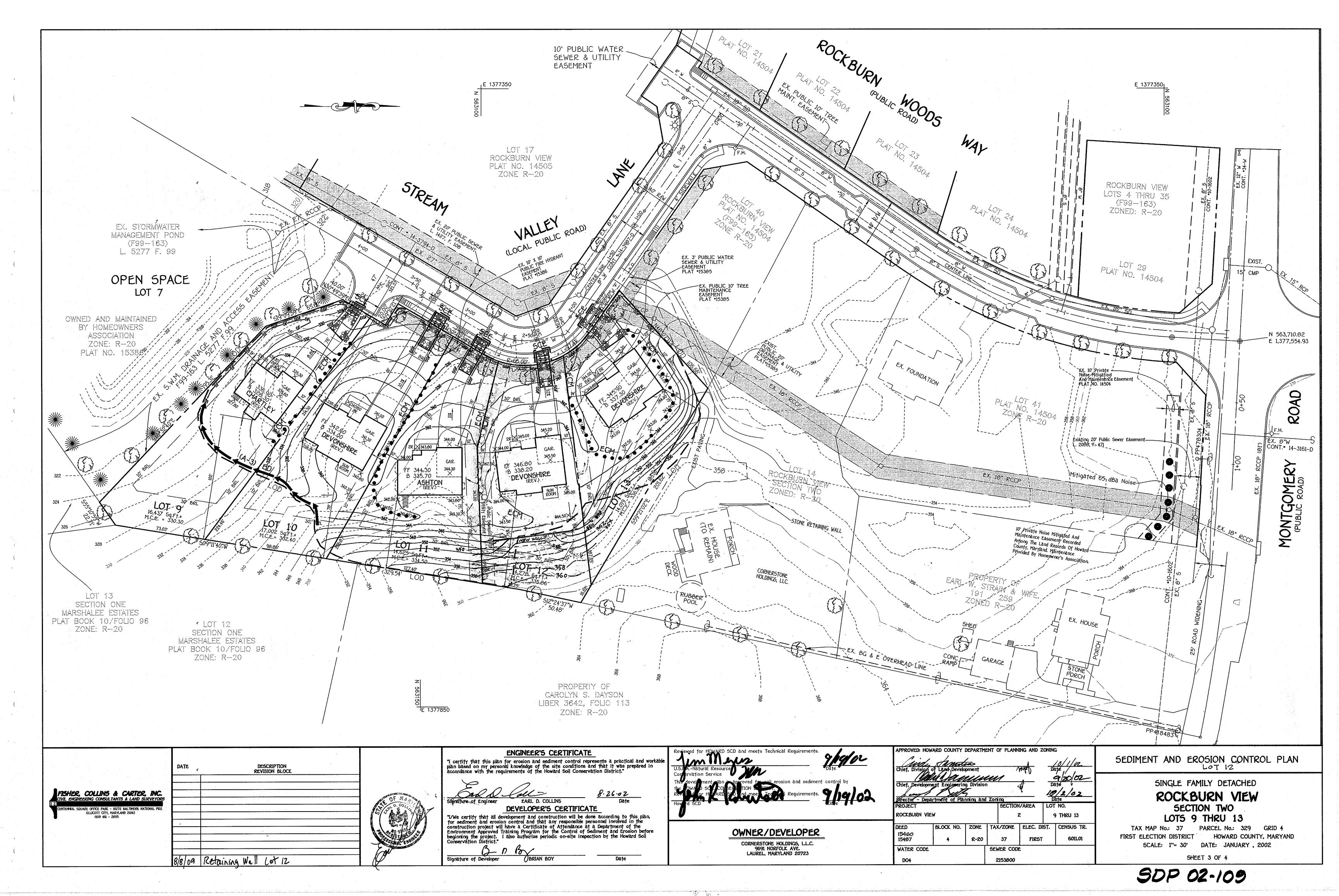
19. THIS PLAN IS SUBJECT TO THE FIFTH EDITION OF THE SUBDIVISION AND LAND DEVELOPMENT REGULATIONS AND ZONING REGULATIONS AS AMENDED UNDER COUNCIL BILL \*50-2001.

20. THE OWNER, TENANT, AND/OR THEIR AGENTS SHALL BE RESPONSIBLE FOR MAINTENANCE OF THE REQUIRED LANDSCAPING, PLANT MATERIALS, BERMS, FENCES AND WALLS. ALL PLANT MATERIALS SHALL BE MAINTAINED IN GOOD GROWING CONDITION, AND WHEN NECESSARY, REPLACED WITH NEW MATERIALS TO ENSURE CONTINUED COMPLIANCE WITH APPLICABLE REGULATIONS. ALL OTHER REQUIRED LANDSCAPING SHALL BE PERMANENTLY MAINTAINED IN GOOD CONDITION, AND WHEN NECESSARY, REPAIRED OR REPLACED.

21. THE OPEN SPACE REQUIREMENTS FOR THIS SUBDIVISION HAVE BEEN SATISFIED UNDER F-02-018.



SDP 02-109



# SILT FENCE NOT TO SCALE - WOVEN WIRE FENCE MIN. 14 1/2" GUAGE, MAX. 6" MESH SPACING) JOMAX. C. TO C POSTS, DRIVEN MII 16" INTO GROUND -HEIGHT OF FILTER STANDARD SYMBOL PERSPECTIVI: VIEW —— 5 —— 5-— WOVEN WIRE FENCE C1\_1/2" GA. MIN., MAX. 6" MESH SPACING) WITH FILTER CLOTH FLOW EMPED FILTER CLOTH MIN. 8" INTO GROUND CONSTRUCTION NOTES FOR FABRICATED SILT FENCE POSTS: STILL LITHER T OR U FENCE: WOVEN WIRE, 14. GA.

1. WOVEN WIRE FENCE TO BE FASTENED SECURELY TO FENCE POSTS WITH WIRE TIES OF STAPLES. 2. FILTER CLOTH TO BE FASTENED SECURELY TO WOVEN WIRE FENCE WITH TIES SPACED EVERY 6" MAX. MESH OPENING

PERMANENT SEEDING NOTES

SEEDBED PREPARATION:
LOOSEN UPPER THREE INCHES OF SOIL BY RAKING, DISCING
OR OTHER ACCEPTABLE MEANS BEFORE SEEDING.

SOIL AMENDMENTS:
APPLY TWO TONS PER ACRE DOLOMITIC LIMESTONE (92 LBS/
1,000 SQ.FT.) AND 600 LBS. PER ACRE 0-20-20 FERTILIZER
(14 LBS./1,000 SQ.FT.) BEFORE SEEDING HARROW OR DISC.
INTO UPPER THREE INCHES OF SOIL. AT TIME OF SEEDING,
APPLY 400 LBS. PER ACRE 30-0-0 UREAFORM FERTILIZER
(9 LBS./1,0)0 SQ.FT.) AND 500 LBS. PER ACRE (115 LBS./
1,000 SQ.FT.) OF 10-20-20 FERTILIZER.

FEDING

FOR THE PERIODS MARCH 1 THROUGH APRIL 30, AND AUGUST
1 THROUGH OCTOBER 15, SEED WITH 100 LBS. PER ACRE (2.3
LBS./1,000 SQ.FT.) OF KENTUCKY 31 TALL FESCUE, FOR THE
PERIOD MAY 1 THROUGH JULY 31, SEED WITH 60 LBS/ACRE
Q.4 LBS./1,000 SQ.FT.) KENTUCKY 31 TALL FESCUE AND
2 LBS. PES: ACRE (0.05 LBS./1,000 SQ.FT.) OF WEEPING
1 OF GOAGE: OLIPING THE PERIOD OF OCTOBER 16 THROUGH

MULCHING:

APPLY 1 T() 2 TONS PER ACRE (IO TO 90 LBS/1,000 SQ.FT.)

OF UNROTTED SMALL GRAIN STRAW INVEDIATELY AFTER SEEDING.
ANCHOR MULCH IMMEDIATELY AFTER APPLICATION USING 200

GALLONS FER ACRE (5 GAL/1,000 SQ.FT.) OF EMULSIFIED

ASPHALT ON FLAT ACRES. ON SLOPES & FEET OR HIGHER USE
348 GALLONS PER ACRE (8 GAL/1,000 SQ.FT.) FOR ANCHORING.

• FOR PUBLIC PONDS SUBSTITUTE CHEMUNG CROWNVETCH AT 15 LBS./ACKE AND KENTUCKY 31 TALL FESCUE AT 40 LBS/ACRE AS THE SEEDING REQUIRMENT. OPTIMUM SEEDING DATE FOR THIS MIXTURE IS MARCH 1 TO APRIL 30.

TEMPORARY 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, DISCING OR
OTHER ACCEPTABLE MEANS BEFORE SEEDING, IF NOT PREVIOUSLY

FOR THE PERIODS MARCH 1 THROUGH APRIL 30, AND AUGUST 15 THROUGH NOVEMBER 15, SEED WITH 1 BUSHEL PER ACRE OF ANNUAL FIYE (3.2 LBS./ACRE OF WEEPING LOVEGRASS COT LBS./ 1,000 SQ.FT. FOR THE PERIOD NOVEMBER 16 THRU FEBRUARY 28, PROTIECT SITE BY APPLYING 2 TONS PER ACRE OF WELL

MULCHING:

APPLY 1 TO 2 TONS PER ACRE (70 TO 90 LBS./1,000 SQ.FT.)

OF UNROTTED SMALL GRAIN STRAW IMMEDIATELY AFTER SEEDING.
ANCHORING TOOL OR 210 GALLONS PER ACRE (5 GALL,000 SQ.FT.)

OF EMULSIFIED ASPHALT ON FLAT ACRES ON SLOPES 8 FEET OR
HIGHER, USE 340 GALLONS PER ACRE (8 GAL./1,000 SQ.FT.) FOR

unchores straw mulch and seed as soon as possible in the

REFER TO THE 1988 MARYLAND STANDARDS AND SPECIFICATION FOR SOIL EROSION AND SEDIMENT CONTROL FOR RATE AND METHODS NOT

SOIL AMENDMENTS:
APPLY 800 LBS. PER ACRE 10-10-10 FERTILIZER (14 LBS./ 1,000 SQ.FT.)

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

LOVEGRASSI, DURING THE PERIOD OF OCTOBER 16 THROUGH
FEBRUARY 28. PROJECT SITE BY: OPTION (1) - TWO TONS PER
ACRE OF WELL ANCHORED STRAW MULCH AND SEED AS SOON AS
POSSIBLE IN THE SPRING; OPTION (2) - USE SOC: OPTION (3) SLED WITH 100 LBS./ACRE KENTUCKY 31 TALL FESCUE AND MULCH
WITH TWO TONS/ACRE WELL ANCHORED STRAW. ALL SLOPES SHOULD

ALL DISTURBED AREAS SHALL BE STABILIZED AS FOLLOWS:

FILTER CLOTH FILTER X, MIRAFI

100X, STABILINKA TI4 ON

ENVIROFENCE, OR APPROVED

OR APPROVED EQUAL.

24" AT TOP AND MID SECTION. 3. WHEN TWO SECTIONS OF FILTER CLOTH ADJOIN EACH OTHER THEY SHALL BE OVERLAPPED BY SIX INCHES AND FOLDED.

4. MAINTENANCE SHALL BE PERFORMED AS NEEDED PREFABRICATED UNIT: GEOFAB, AND MATERIAL REMOVED WHEN "BULGES" DEVELOP IN THE SILT FENCE.

STABILIZED CONSTRUCTION ENTRANCE - MOLINTARLE -- EXISTING PAVEMENT --- EARTH FILL \*\* GEOTEXTILE CLASS 'C' OZ BETTER MINIMUM 6" OF 2"-3" AGGREGATE OVER LENGTH AND WIDTH OF STRUCTURE PROFILE STANDARD SYMBOL - \* 50° MINIMUM SSS CESS PLAN VIEW Construction Specification Length - minimum of 50' (\*30' for single residence lot).

Width - 10 minimum, should be flared at the existing road to provide a turning

Geofextile 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 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.

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.

## SEDIMENT CONTROL NOTES

1) A MINIMUM OF 40 HOURS NOTICE MUST BE GIVEN TO THE HOWARD COUNTY

1) A MINIMUM OF 40 HOURS NOTICE MUST BE GIVEN TO THE HOWARD COUNTY DEPARTMENT OF INSPECTIONS, LISCENSES AND PERHITS, 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 IN CONFORMANCE WITH THE MOST CURRENT MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL AND RIVISIONS THERETO.

3) FOLLOWING INITIAL SOIL DISTURBANCE OR RE-DISTURBANCE, PERMANENT OR TEMPORARY STABILIZATION SHALL BE COMPLETED WITHIN: a) 7 CALENDAR DAYS FOR ALL PERMETER SEDIMENT CONTROL STRUCTURES, DIKES, PERIMETER SLOPES AND ALL SLOPES STEEPER THAN 31, b) 14 DAYS AS TO ALL OTHER DISTURBED OR GRADED AREAS IN 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 1994 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL FOR PERMANENT SEEDING (SEC. 52), TEMPORARY STABILIZATION WITH MULCH ALONE CAN ONLY BE DONE WHEN RECOMMENDED SEEDING DATES DO NOT ALLOW FOR PROPER GERMINATION AND ESTABLISHMENT OF GRASSES.

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.

MAIN.

HEIR REMOVAL NO.

CONTROL INSPECTOR.

7) SITE ANALYSIS:

TOTAL AREA OF SITE

AREA DISTURBED

AREA TO BE ROOFED OR PAVED

AREA TO BE VEGETATIVELY STABILIZED

CUT 1.7526 ACRES 1.2430 ACRES 0.329 ACRES 0.9140 ACRES

TOTAL FILL.

CU. YDS:

OFFSITE WASTE/BORROW AREA LOCATION \*SEE NOTE BELOW

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

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

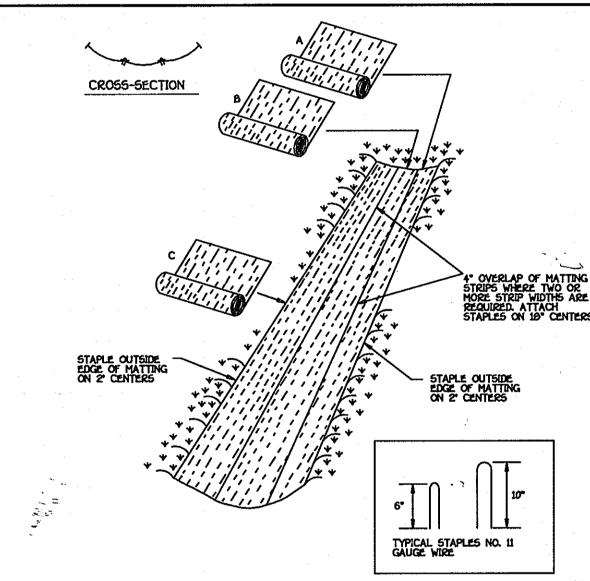
ON ALL SITES WITH DISTURBED AREAS IN EXCESS OF 2 ACRES,
APPROVAL OF THE INSPECTION AGENCY SHALL BE ZEQUESTED UPON
COMPLETION OF INSTALLATION OF PERIMETER EROSION AND SEDIMENT
CONTROLS, BUT BEFORE PROCEEDING WITH ANY OTHER EARTH
DISTURBANCE OR GRADING. OTHER BUILDING OR GRADING INSPECTION
APPROVALS MAY NOT BE AUTHORIZED UNTIL THIS INITIAL APPROVAL
BY THE INSPECTION AGENCY IS MADE.

10 TRENCHES FOR THE CONSTRUCTION OF UTILITIES IS ILMITED TO THREE PIPE.

1D TRENCHES FOR THE CONSTRUCTION OF UTILITIES IS ILIMITED TO THREE PIPE LENGHTS OR THAT WHICH SHALL BE BACK-FILLED AND STABILIZED WITHIN ONE WORKING DAY, WHICHEVER IS SHORTER. 12) THE TOTAL AMOUNT OF EARTH DIKE - N/A
13) THE TOTAL AMOUNT OF SILT FENCE - 335 LF
14) THE TOTAL AMOUNT OF SUPER SILT FENCE - 225 LF

\* IT IS THE RESPONSIBILTY OF THE CONTRACTOR TO IDENTIFY THE SPOIL/ BORROW SITE AND NOTIFY AND GAIN APPROVAL FROM THE SEDIMENT CONTROL INSPECTOR OF THE SITE AND IT'S GRADING PERMIT NUMBER: AT THE TIME OF CONSTRUCTION.

### 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 10" spacing

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.

## SEQUENCE OF CONSTRUCTION

1. CIBTAIN GRADING PERMIT, (I DAY)

4. CONSTRUCT UTILITIES, (WATER AND SEWER HOUSE CONNECTIONS) (2 WEEKS)

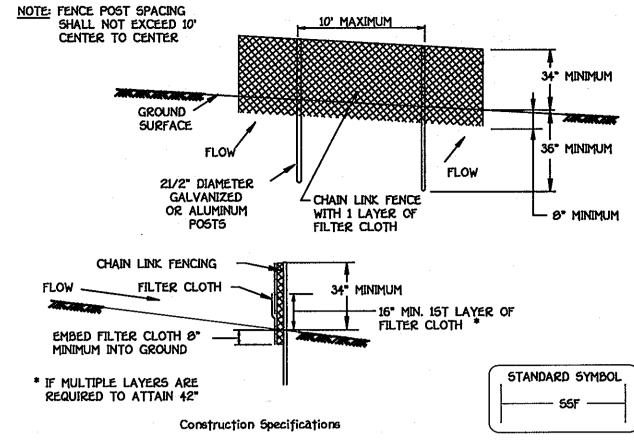
5. GRADE LOTS TO FINISHED GRADE. (2 WEEKS)

7. REMOVE SEDIMENT CONTROL DEVICES AS UPLAND AREAS ARE STABILIZED AND PERMISSION IS GRANTED BY E/S CONTROL INSPECTOR.

2. INSTALL SEDIMENT AND EROSION CONTROL DEVICES AS SHOWN ON PLAN. (3 DAYS)

3. CONSTRUCT HOMES AS SHOWN (6 MONTHS)

## SUPER SILT FENCE



1. Fencing shall be 42" in height and constructed in accordance with the latest Maryland State Highway Details for Chain Link Fencing. The specification for a 6' fence shall be used, substituting 42" fabric and 6' length

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

3. Filter cloth shall be fastened securely to the chain link fence with ties spaced every 24" at the top and mid section.

4. Filter cloth shall be embedded a minimum of 6" into the ground.

5. When two sections of filter cloth adjoin each other, they shall be overlapped by 6" and folded.

6. Maintenance shall be performed as needed and silt buildups removed when "bulges" develop in the silt fence, or when silt reaches 50% of fence height

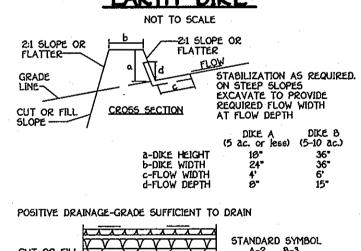
7. Filter cloth shall be fastened securely to each fence post with wire ties or staples at top and mid section and shall meet the following requirements for Geotextile Class F:

Tensile Strength Tensile Modulus Flow Rate Filtering Efficiency

50 lbs/in (min.) 20 lbs/in (min.) 75% (min.)

Test: MSMT 509 Test: MSMT 509 0.3 gal/ft /minute (max.) Test: MSMT 322 Test: MSMT 322

## EARTH DIKE



STANDARD SYMBOL A-2 B-3 CONSTRUCTION SPECIFICATIONS DIKES SHALL BE COMPACTED BY EARTH-MOVING EQUIPMENT.

 ALL DIKES SHALL BE COMPACTED BY EARTH-MOVING EQUIPMENT.
 ALL DIKES SHALL HAVE POSITIVE DRAINAGE TO AN OUTLET.
 TOP WIDTH MAY BE WIDER AND SIDE SLOPES MAY BE FLATTER II DESIRED TO FACILITATE CROSSING BY CONSTRUCTION TRAFFIC.
 FIELD LOCATION SHOULD BE ADJUSTED AS NEEDED TO UTILIZE A 4. FIELD LOCATION SHOULD BE ADJUSTED AS NEEDED TO UTILIZE A STABILIZED SAFE OUTLET.
5. EARTH DIKES SHALL HAVE AN OUTLET THAT FUNCTIONS WITH A MINIMUM OF EROSION. RUNOFF SHALL BE CONVEYED TO A SEDIMENT BASIN WHERE EITHER THE DIKE CHANNEL OR THE DRAINAGE AREA ABOVE THE DIKE ARE NOT ADEQUATELY STABILIZED.
6. STABILIZATION SHALL BE: (A) IN ACCORDANCE WITH STANDARD SPECIFICATIONS FOR SEED AND STRAW MULCH OR STRAW MULCH IF NOT IN SEEDING SEASON, (B) FLOW CHANNEL AS PER THE CHART BELOW.

### FLOW CHANNEL STABILIZATION

TREATMENT	GRADE	DIKE_A	DIKE B	
1	.5-3.0%	SEED AND STRAW MULCH	SEED AND STRAW MULCH	
2	3.1-5.0%	SEED AND STRAW MULCH	SEED USING JUTE, OR EXCELSIOR; SOD; 2° STONE	
3	5.1-0.0%	SEED WITH JUTE, OR SOD; 2" STONE	LINED RIP-RAP 4"-0"	
4	0.1-20x	LINED RIP-RAP 4"-8"	ENGINEERING DESIGN	
A. STONE TO BE 2 INCH STONE, OR RECYCLED CONCRETE EQUIVALENT, IN A LAYER				

B. RIP-RAP TO BE 4-8 INCHES IN A LAYER AT LEAST 8 INCHES THICKNESS AND C. APPROVED EQUIVALENTS CAN BE SUBSTITUTED FOR ANY OF THE ABOVE MATERIALS.

AT LEAST 3 INCHES IN THICKNESS AND BE PRESSED INTO THE SOIL WITH

7. PERIODIC INSPECTION AND REQUIRED MAINTENANCE MUST BE PROVIDED AFTER EACH RAIN EVENT.

### STANDARDS AND SPECIFICATIONS FOR VEGETATIVE STABILIZATION

Using vegetation as cover for barren soil to protect it from forces that cause erosion.

Vegetative stabilization specifications are used to promote the establishment of vegetation on exposed soil. When soil is stabilized with vegetation, the soil is less likely to erode and more likely to allow infiltration of rainfall, thereby reducing sediment loads and run-off to downstream areas, and improving wildlife habitat and visual resources.

CONDITIONS WHERE PRACTICE APPLIES

This practice shall be used on denuded areas as specified on the plans and may be used on highly erodible or critically eroding areas. This specification is divided into Temporary Seeding, to quickly establish vegetative cover for short duration Olup to one year), and Permanent Seeding, for long term vegetative cover. Examples of applicable areas for Temporary Seeding are temporary Soil Stockpiles, cleared areas being left idle between construction phases, earth dikes, etc. and for Permanent Seeding are lawns, dams, cut and fill slopes and other areas at final grade, former stockpile and staging areas, etc.

EFFECTS ON WATER QUALITY AND QUANTITY

Planting vegetation in disturbed areas will have an effect on the water budget, especially on volumes and rates of runoff, infiltration evaporation, transpiration, percolation, and groundwater recharge. Vegetation, over time, will increase organic matter content and improve the water holding capacity of the soil and subsequent plant growth.

Vegetation will help reduce the movement of sediment, nutrients, and other chemicals carried by runoff to receiving waters. Plants will also help protect groundwater supplies by assimilating those substances present within the root zone. Sediment control devices must remain in place during grading, seedbed preparation, seeding, mulching and vegetative establishment to prevent large quantities of sediment and associated chemicals and nutrients from washing into surface waters.

SECTION 1 - VEGETATIVE STABILIZATION METHODS AND MATERIALS

A. Site Preparation

i. Install erosion and sediment control structures (either temporary or permanent) such as diversions, grade stabilization structures, berms, waterways, or sediment control basins.

ii. Perform all grading operations at right angles to the slope. Final grading and shaping is not usually necessary for temporary seeding.

iii. Schedule required soil tests to determine soil amendment composition and application rates for sites having disturbed area over 5 acres.

5. Soil Amendments (Fertilizer and Lime Specifications)

i. Soil tests must be performed to determine the exact ratios and application rates for both lime and fertilizer on sites having disturbed areas over 5 acres. Soil analysis may be performed by the University of Maryland or a recognized commercial laboratory. Soil samples taken for engineering purposes may also be used for chemical analyses.

ii. Fertilizers shall be uniform in composition, free flowing and suitable for accurate application by

ii. Fertilizers shall be uniform in composition, free flowing and suitable for accurate application by approved equipment. Manure may be substituted for fertilizer with prior approval from the appropriate approval authority. Fertilizers shall all be delivered to the site fully labeled according to the applicable state fertilizer laws and shall bear the name, trade name or trademark and warrantee of the producer.

iii. Lime materials shall be ground limestone drydrated or burnt lime may be substituted which contains at least 50% total oxides (calcium oxide plus magnesium oxide). Limestone shall be ground to such fineness that at least 50% will pass through a \*100 mesh sieve and 90-100% will pass through a \*20

mesh sieve Incorporate lime and fertilizer into the top 3-5° of soil by disking or other suitable means

iv. Incorporate lime and fertilizer into the top 3-5" of soil by disking or other suitable means.

C. Seedbed Preparation

i. Temporary Seeding

a. Seedbed preparation shall consist of loosening soil to a depth of 3" to 5" by means of suitable agricultural or construction equipment, such as disc harrows or chisel plows or rippers mounted on construction equipment. After the soil is loosened it should not be rolled or dragged smooth, but left in the roughened condition. Sloped areas (greater than 3.0) should be tracked leaving the surface in an irregular condition with ridges running parallel to the contour of the slope.

b. Apply fertilizer and lime as prescribed on the plans.

c. in corporate lime and fertilizer into the top 3-5" of soil by disking or other suitable means.

ii. Permanent Seeding

a. Minimum soil conditions required for permanent vegetative establishment:

1. Soil pit shall be bestween 6.0 and 7.0.

2. Soluble salts shall be less than 500 parts per million (ppm).

3. The soil shall contain less than 40% clay, but enough fine grained material 0.30% slit plus clay) to provide the capacity to hold a moderate amount of moisture. An exception is if lovegrass or serecia lespedezas is to be planted, then a sandy soil (.30% slit plus clay) would be acceptable.

4. Soil shall contain 1.5% minimum organic matter by weight.

5. Soil must contain sufficient pore space to permit adequate root penetration.

6. If these conditions cannot be met by soils on site, adding topsoil is required in accordance with Section 21 Standard and specification for Topsoil.

b. Areas previously graded in conformance with the drawings shall be maintained in a true and even grade, then scarified or otherwise loosened to a depth of 3-5" to permit bonding of the topsoil to the surface area and to create horizontal erosion check slots to prevent topsoil to the surface area and to create horizontal erosion check slots to prevent topsoil to the surface area and to create horizontal erosion check slots to prevent topsoil from sliding

to the surface area and to create horizontal erosion check stots to prevent topical from sliding down a slope.

Apply soil amendments as per soil test or as included on the plans.

Mix soil amendments into the top 3-5" of topical by disking or other suitable means. Lawn areas should be raked to smooth the surface, remove large objects like stones and branches, and ready the area for seed and application. Where site conditions will not permit normal seedbed preparation, loosen surface soil by dragging with a heavy chain or other equipment to roughen the surface. Steep slopes (steeper than 3d) should be tracked by a dozer leaving the soil in an irregular condition with ridges running parallel to the contour of the slope. The top 1-3" of soil should be loose and friable. Seedbed loosening may not be necessary on perfy disturbed areas.

top 1-3' or soil should be loose and fritable. Seededed loosening may not be necessary on newly disturbed dreas.

All seed faccifications

I will seed must meet the requirements of the Haryland State feed Law. All seed shall be subject to the referring for a recognized seed abbraghory. All seed used shall have been tested within the 5 months in the seed togs are the shall be subject to the face of the seed togs are the shall be the shall be the seed togs are the shall be the used later than the date included by the specifical for the species. Including shall not be used later than the date included by the species and the species and make the including times of the shall be a pure culture of the shall be a shall be a special to the shall be done immediately and without interprition. Be made on the shall be shall

of water.

iii. Application of liquid binders should be heavier at the edges where wind catches mulch, such as in valleys and creet of banks. The remainder of area should be appear uniform after binder application. Synthetic binders - such as Acrylic DLR (Agro-Tack), DCA-70 Petroset, Terra Tax II, Terra Tack AR or other approved equal may be used at rates recommended by the manufacturer to anchor mulch.

iv. Lightweight plastic netting may be stapled over the mulch according to manufacturer's recommendations. Netting is usually available in rolls 4' to 15' feet wide and 300 to 3,000 feet long.



DESCRIPTION REVISION BLOCK

engineer's certificate 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 Soil Conservation District." 8.26.02 Date EARL D. COLLINS DEVELOPER'S CERTIFICATE "I/We 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

authorize periodic on-site inspection by the Howard Soil Conservation District."

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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

7 OWNER/DEVELOPER

CORNERSTONE HOLDINGS, .L.C.C.

9691 NORFOLK AVENUE

LAUREL, MARYLAND 20723

10/2/02 precipit - Department of Planning and Zoning LOT NO. SUBDIVISION SECTION/AREA ROCKBURN VIEW 1 THRU. LAT NO. BLOCK NO. ZONE TAX/ZONE ELEC. DIST. CENSUS TR. 37 WATER CODE SEWER CODE

APPROVED: DEPARTMENT OF PLANNING AND ZONING

SEDIMENT AND EROSION CONTROL DETAILS LOT VZ

> SINGLE FAMILY DETACHED ROCKBURN VIEW

SECTION TWO LOTS 9 THRU 13

TAX MAP No.: 37 PARCEL No.: 329 GRID: 4 FIRST ELECTION DISTRICT HOWARD COUNTY, MARYAND SCALE: AS SHOWN DATE: JUNE, 2002 SHEET 4 OF 4

SDP 02-109

