Nº	REVISIONS	Date
1	Rev. house and grade lot 3	11·13·91
2	Rev. house and grade lot 11	2·14·92
3	Rev. hse. & grd. Lot 12, Add hse. typical	6·8·92
4	Rev. hse. & grd Lots 4 & 5 Add hse. typical	6·18·92
5	Rev. hse. & grd. lot 7 Add hse. typical	5·26·93

GENERAL NOTES

1. Subject property zoned R-20 as per 8·2·85 Comprehensive Zoning Plan
2. The coordinates shown hereon are based on The Maryland State Grid System and derived from the following Howard County Control Stations 23443003 and 23243002.
3. All roadways are public and existing.
4. Total area included in this submission 254,267 ⊄ or 5.8371 Ac.
5. Total number of lots: 13
6. Any damage to county owned right-of-ways shall be corrected at the Developer's expense
7. Maximum lot coverage is 30%
8. Reference plans S-89-36, P-90-05 and F 90-109.
9. The Contractor or Developer shall contact the Construction Inspection Division, 24 hours in advance of commencement of work at 792-2630.
10. The existing topography shown was field run by CLARK·FINFROCK & SACKETT, INC. on 9·29·88.
11. The Stormwater Management pond will be constructed under F90-109.
12. For driveway entrance details refer to Howard Co. Design Manual Volume IV Std. Details R-6.05 & R-6.03.
13. The purpose of the revised SDP is to revise the house types on Lots 6-10 & 13 only, from Rockland Ltd. Ptnrshp. to Trinity Bldrs. type units.

-LEGEND-

Contour Interval	2 Ft
Existing Contour	410
Proposed Contour	410
Spot Elevation	+10⁵
Direction of Drainage	→
Walk-Out Basement	WOB
Trees to be Saved	

THIS PLAN SUPERCEDES PREVIOUSLY APPROVED S.D.P.-90-144 SHEET 1 of 3. THE GRADING ON THIS SHEET SUPERCEDES THE GRADING ON SHEET 2 OF 3.

NET LOT SIZE TABULATION				
Lot #	Gross Area	Pipestem Area	Floodplain/Steep Slope	Net Area
9	19,281 ⊄	1604 ⊄	0	17,678 ⊄
10	22,823 ⊄	2004 ⊄	0	20,819 ⊄

NOTE: LOTS 6-10 & 13 ARE FOR: TRINITY BUILDERS, INC. 6212 Devon Drive Columbia, Md 21044

ADDRESS CHART

LOT Nº	STREET ADDRESS	LOT Nº	STREET ADDRESS
5	2820 BRIAN COURT	13	2805 BRIAN COURT
4	2816 " "	12	2809 "
3	2812 " "	11	2813 "
2	2808 " "	10	2817 "
1	2804 " "	9	2821 "
		8	2825 "
		7	2828 "
		6	2824 "

APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS. HOWARD COUNTY HEALTH DEPARTMENT

[illegible] — COUNTY HEALTH OFFICER — DATE 10-4-91

APPROVED: HOWARD COUNTY DEPT. OF PLANNING & ZONING

[illegible] — DIRECTOR — DATE 1/10/91

[illegible] — CHIEF DIVISION OF COMMUNITY PLANNING AND LAND DEVELOPMENT — DATE 10/8/91

APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE, STORM DRAINAGE SYSTEMS AND PUBLIC ROADS HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS

[illegible] — DIRECTOR — DATE 9-27-91

[illegible] — CHIEF BUREAU OF ENGINEERING — DATE 9-27-91

OWNER / DEVELOPER	Subdivision Name	Sect./Area	Lots
ROCKLAND LIMITED PARTNERSHIP 11207 McGEE WAY ELLICOTT CITY, MD 21043	ROCKLAND SQUARE		1 thru 13

Plat No.	Block No.	Zone	Tax Map No.	Elec. Dist.	Census Tr.
9557	12 & 18	R-20	17 & 18	2ND	6022

Water Code	Sewer Code
H02	1454200

CLARK • FINEFROCK & SACKETT, INC.
ENGINEERS • PLANNERS • SURVEYORS
7135 MINSTREL WAY • COLUMBIA, MD 21045 • (301) 381-7500 — BALTO • (301) 621-8100 — WASH

DESIGNED VLP	REVISED SITE DEVELOPMENT PLAN LOTS 1 thru 13	SCALE 1" = 30'
DRAWN BAL BAK	**ROCKLAND SQUARE**	DRAWING 1 of 3
CHECKED J.M.E.	2ND ELECTION DISTRICT HOWARD COUNTY, MARYLAND	JOB NO. 88-013
DATE SEPT. 1991	FOR: ROCKLAND LIMITED PARTNERSHIP 11207 McGee Way Ellicott City, Md 21043	FILE NO. 91-131 X

STATE OF MARYLAND DONALD B. SACKETT REGISTERED LAND SURVEYOR

SDP-90-144

DEVELOPER'S/BUILDER'S CERTIFICATE

"I/We certify that all development and construction will be done according to this plan of development and plan for erosion and sediment control and that all responsible personnel involved in the construction project will have a Certificate of Attendance at a Dept. of Natural Resources 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 or their authorized agents, as are deemed necessary."

Robert Goodin — 2/6/90
Signature of Developer/Builder — Date

VICINITY MAP
Scale: 1" = 2000'

LEGEND

Contour Interval	2 FT
Existing Contour	410
Proposed Contour	410
Spot Elevation	+10²
Direction of Drainage	
Walk out Basement	WOB
Ex Trees to be saved	
Silt Fence	S S S
Earth Dike	ED(A-1)
Stabilized Construction Entrance	
PROPOSED DRAINAGE DIVIDE TO TRAP	
EXISTING DRAINAGE DIVIDE TO TRAP	
LIMIT OF WETLANDS, DRAINAGE & UTILITY ESM'T.	

Reviewed for HOWARD S.C.D.
Name
and meets Technical Requirements
Signature — 8/27/90 Date
U.S. Soil Conservation Service

THIS DEVELOPMENT PLAN IS APPROVED FOR SOIL EROSION AND SEDIMENT CONTROL BY THE HOWARD SOIL CONSERVATION DISTRICT.

Approved — 8/27/90 Date

TRAP # 1 SOST (ST-V)

D.A. = 2.90 Ac. (Ex.) 1.6 Ac. (Prop.)
Storage Required = 2.9(1800) = 5220 CF
Storage Provided = 5440 CF
Depth = 4'
Top of Stone Crest = 428.5
Bottom of elev = 423.5
Clean out elev = 425.5
Bottom Dimensions = 76' x 13'
1:1 Side Slope in cut
L = 12'

APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS. HOWARD COUNTY HEALTH DEPARTMENT
COUNTY HEALTH OFFICER — 9-27-90 DATE

APPROVED: HOWARD COUNTY DEPT OF PLANNING & ZONING
DIRECTOR — 12/24/90 DATE
CHIEF DIVISION OF COMMUNITY PLANNING AND LAND DEVELOPMENT — 12/24/90 DATE

APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE, STORM DRAINAGE SYSTEMS AND PUBLIC ROADS HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
DIRECTOR — 9/24/90 DATE
CHIEF BUREAU OF ENGINEERING — 9/24/90 DATE

ENGINEER'S CERTIFICATE

I hereby 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.

Richard J.H. Stepp — 2/6/90 Date

Owner / Developer
ROCKLAND LIMITED PARTNERSHIP
11207 McGee Way
Ellicott City, MD 21043

CLARK • FINEFROCK & SACKETT, INC.
ENGINEERS • PLANNERS • SURVEYORS
7135 MINSTREL WAY • COLUMBIA, MD. 21045 • (301) 381-7500 - BALTO. • (301) 621-8100 - WASH.

DESIGNED KIWM	SEDIMENT AND EROSION CONTROL PLAN	SCALE 1" = 30'
DRAWN BAL BAK	LOTS 1 thru 13 ROCKLAND SQUARE	DRAWING 2 of 3
CHECKED KIWM	2ND ELECTION DISTRICT HOWARD COUNTY, MARYLAND	JOB NO 88-013
DATE JAN. 1990	FOR ROCKLAND LIMITED PARTNERSHIP 11207 McGee Way Ellicott City, MD 21043	FILE NO 88-013SE

SDP90-144

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 square 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 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 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 thre 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 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 1½ 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

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 loosened.

Soil Amendments: Apply 600 lbs per acre 10-10-10 fertilizer (14 lbs/1000 sq ft)

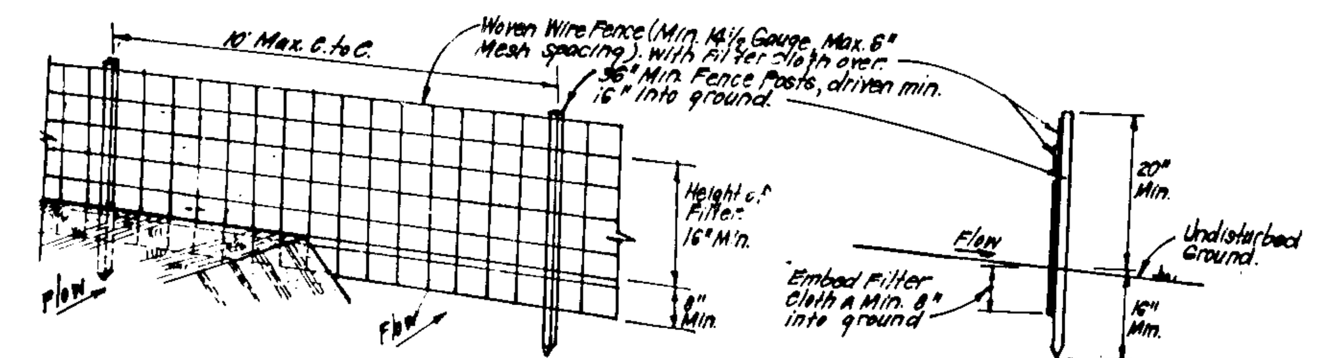
Seeding: For periods March 1 thru April 30 and from August 15 thru November 15, seed with 2½ bushel per acre of annual rye (3.2 lbs/1000 sq ft). For the period May 1 thru August 14, seed with 3 lbs per acre of weeping lovegrass (.07 lbs/1000 sq ft). For the period November 16 thru February 28, protect 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 1½ 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 gal per acre (5 gal/1000 sq ft) of emulsified asphalt on flat areas. On slopes, 8 ft or higher, use 348 gal 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 CONTROL NOTES

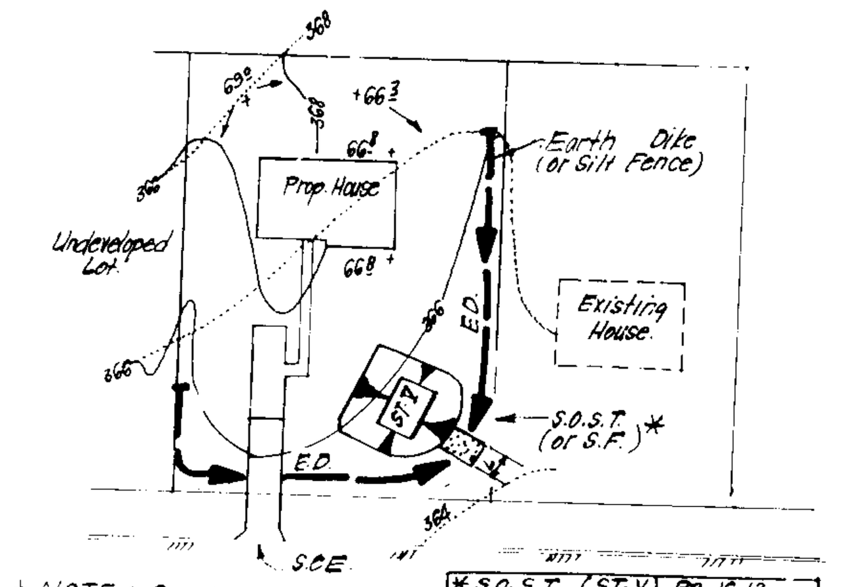
1) A minimum of 24 hours notice must be given to the Howard County Office of Inspection and Permits prior to the start of any construction. (992-2437)
2) All vegetative and structural practices are to be installed according to the provisions of this plan and are to be in conformance with the 1983 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL.
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, Chaper 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 1983 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL for permanent seedings (Sec. 51) sod (Sec. 54), temporary seeding (Sec. 50) and mulching (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.
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
7) Site Analysis:
   - Total Area of Site 5.837 Acres
   - Area Disturbed 3.69 Acres
   - Area to be roofed or paved 0.95 Acres
   - Area to be vegetatively stabilized 2.74 Acres
   - Total Cut 13,170 Cu. yds
   - Total Fill 10,779 Cu. yds
   - Offsite waste/borrow area location
8) Any sediment control practice which is disturbed by grading activity for placement of utilities must be repaired on the same day of disturbance.
9) Additional sediment control must be provided, if deemed necessary by the Howard County DPW 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) If houses are to be constructed on an "As-Sold" basis, at random, Single Lot Sediment Control as shown below shall be implemented.
12) All pipes to be blocked at the end of each day (see detail below). N/A
13) The total amount of straw bale dike/silt fence equals 720 L.F.



CONSTRUCTION SPECIFICATIONS:
1. Woven wire fence to be fastened securely to fence posts with wire ties or staples.
2. Filter Cloth to be fastened securely to woven wire fence with ties spaced every 24" at top and mid section.
3. When 2 sections of filter cloth adjoin each other they shall be overlapped by 6" and folded.
4. Maintenance shall be performed as needed and material removed when "bulges" develop in Silt Fence.

POSTS: Steel either T or U Type or 2" Hardwood.
FENCE: Woven Wire, 14½ Gage 6" Max. Mesh Opening.
FILTER CLOTH: FilterX, Mirafi 100X, Stablinka, T140N or Approv. equal.
PREFABRICATED UNIT: Geofab, Envirofence, or Approv. equal.

SILT FENCE DETAIL (S)
NO SCALE

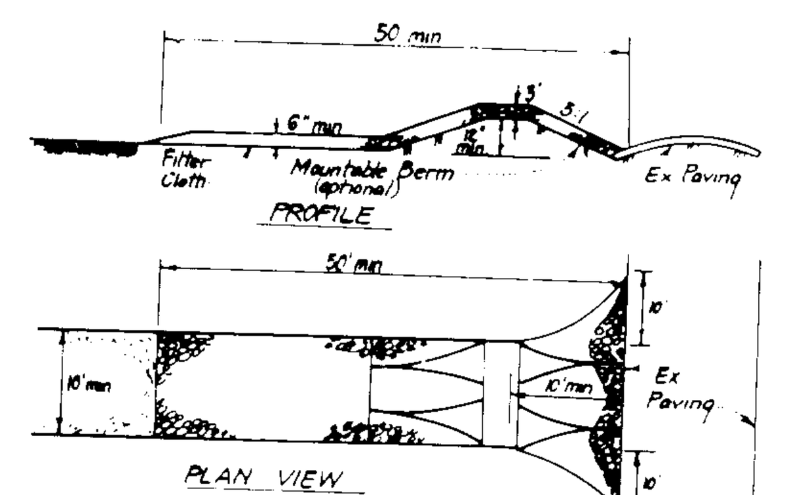


+ NOTE: Scale of detail can not be utilized if any two lots sharing common property lines are to be disturbed at the same time or on any lots showing a sediment trap.

* S.O.S.T. (ST-V) Pg. 16.12			
LOT SIZE	1/4 Ac	1/2 Ac	1 Ac
L	2'	3'	6'
Depth	2'	2'	2'
+ Bot. Length	11'	26'	26'
+ Bot. Width	11'	11'	26'
Bot. Area	121 ☐	286 ☐	676 ☐

+ can be adjusted in field, but bottom area must be as given or greater

SINGLE LOT SEDIMENT CONTROL PLAN
NO SCALE



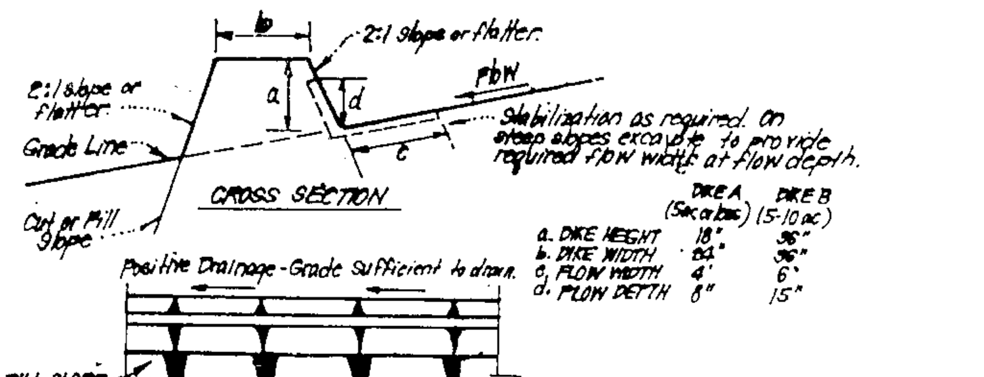
CONSTRUCTION SPECIFICATIONS:
1. Stone size - Use 2" stone, or reclaimed or recycled concrete equivalent.
2. Length - As required, but not less than 50 feet (except on a single residence lot where a 30 foot minimum length would apply.
3. Thickness - Not less than six (6) inches.
4. Width - Ten (10) foot minimum, but not less than the full width at points where ingress or egress occurs.
5. Filter Cloth - Will be placed over the entire area prior to placing of stone. Filter will not be required on a single family residence lot.
6. Surface Water - All surface water flowing or diverted toward construction entrances shall be piped across the entrance. If piping is impractical, a mountable berm with 5:1 slopes will be permitted.
7. Maintenance - The entrance shall be maintained in a condition which will prevent tracking or flowing of sediment onto public rights-of-way. This may require periodic top dressing with additional stone as conditions demand and repair and/or cleanout of any measures used to trap sediment. All sediment spilled, dropped, washed or tracked onto public rights-of-way must be removed immediately.
8. Washing - Wheels shall be cleaned to remove sediment prior to entrance onto public rights-of-way. When washing is required, it shall be done on an area stabilized with stone and which drains into an approved sediment trapping device.
9. Periodic inspection and needed maintenance shall be provided after each rain.

STABILIZED CONSTRUCTION ENTRANCE (SCE)
NO SCALE

CONSTRUCTION SEQUENCE:

		No. of Days
A.	Obtain Grading Permit and Install Sediment and Erosion Control Devices and Stabilize.	7
* B.	Excavate for foundations and Rough Grade & Temporarily Stabilize.	30
C.	Construct Structures, Sidewalks and Driveways.	120
D.	Final Grade and stabilize in accordance with Stds. & Specs.	30
E.	Upon approval of the sediment control inspector, remove sediment and erosion controls and stabilize.	7

* Delay construction of house on lot 6 until Trap # 1 is removed.



	DIKE A (5 ac or less)	DIKE B (5-10 ac)
a. DIKE HEIGHT	18"	36"
b. DIKE WIDTH	24"	36"
c. FLOW WIDTH	4'	6'
d. FLOW DEPTH	8"	15"

CONSTRUCTION SPECIFICATIONS:
1. All dikes shall be compacted by earth-moving equipment.
2. All dikes shall have positive drainage to an outlet.
3. Top width may be wider and side slopes may be flatter if desired, to facilitate crossing by construction traffic.
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 trapping device such as a sediment trap or 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 chart below.

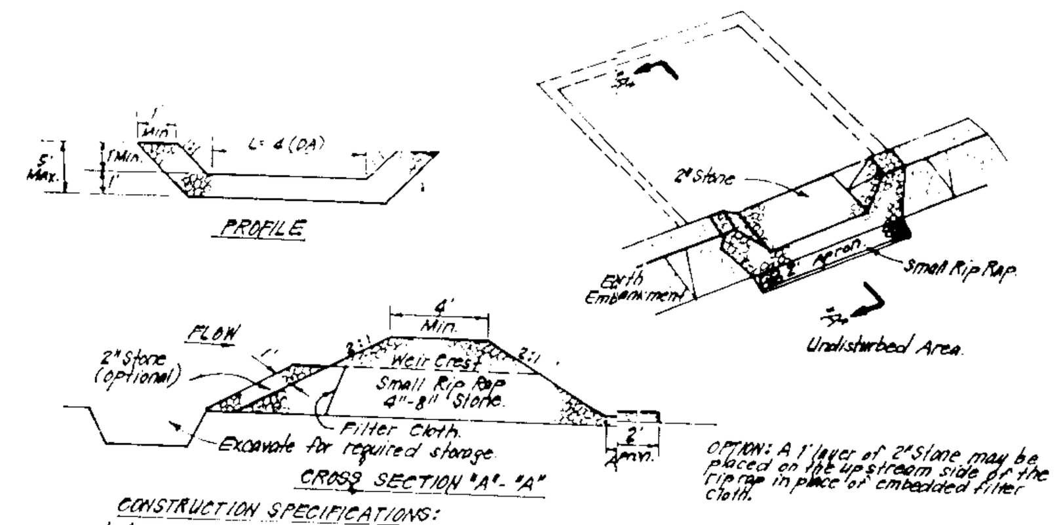
FLOW CHANNEL STABILIZATION

TYPE OF TREATMENT	CHANNEL GRADE	DIKE A	DIKE B
1.	0.5-3.0%	Seed & Straw Mulch	Seed or Straw Mulch
2.	3.1-5.0%	Seed & Straw Mulch	Seed w/Jute, or Excelsior; Sod; 2" Stone
3.	5.1-8.0%	Seed w/Jute, or Sod; 2" Stone	Lined Rip Rap 4"-8" Stone
4.	8.1-20.0%	Lined Rip Rap 4-8" Stone	Engineering Design

A. Stone to be 2" Stone, or recycled concrete equivalent, in a layer at least 3" thick and be pressed into soil with construction equipment.
B. Rip Rap to be 4"-8" in a layer at least 8" thick, pressed into soil.
C. Approved equivalents can be substituted for any of the above materials.

7. Periodic inspection and required maintenance must be provided after each rain.

EARTH DIKE DETAIL (E.D.)
NO SCALE



CONSTRUCTION SPECIFICATIONS:
1. Area under embankment shall be cleared, grubbed and stripped of any vegetation and root mat. The pool area shall be cleared.
2. The fill material for the embankment shall be free of roots and other woody vegetation as well as over sized stones, rocks organic material or other objectionable material. The embankment shall be compacted by traversing with equipment while it is being constructed.
3. All cut and fill slopes shall be 2:1 or flatter.
4. The stone used in the outlet shall be small rip-rap 4"-8" along with 1' thickness of 2" aggregate placed on the up-grade side on the small rip rap or embedded filter cloth in the rip rap.
5. Sediment shall be removed and trap restored to its original dimensions when the sediment has accumulated to 1/2 the design depth of the trap.
6. The structure shall be inspected after each rain and repairs made as needed.
7. Construction operations shall be carried out in such a manner that erosion and water pollution is minimized.
8. The structure shall be removed and the area stabilized when the drainage area has been properly stabilized.

STONE OUTLET SEDIMENT TRAP (S.O.S.T.) ST-V
NO SCALE

APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS, HOWARD COUNTY HEALTH DEPARTMENT

[signature] 9-27-90
COUNTY HEALTH OFFICER — DATE

APPROVED: HOWARD COUNTY DEPT. OF PLANNING & ZONING

[signature] 12/24/90
DIRECTOR — DATE

[signature] 12/24/90
CHIEF DIVISION OF COMMUNITY PLANNING AND LAND DEVELOPMENT — DATE

APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE, STORM DRAINAGE SYSTEMS AND PUBLIC ROADS HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS

[signature] 9/24/90
DIRECTOR — DATE

[signature] acting 9/21/90
CHIEF BUREAU OF ENGINEERING — DATE

DEVELOPER'S/BUILDER'S CERTIFICATE

"I/We certify that all development and construction will be done according to this plan of development and plan for erosion and sediment control and that all responsible personnel involved in the construction project will have a Certificate of Attendance at a Dept. of Natural Resources 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 or their authorized agents, as are deemed necessary."

[signature] Robert Goodier — 2/6/90
Signature of Developer/Builder — Date

Reviewed for HOWARD S.C.D.
Name
and meets Technical Requirements
[signature] 8/27/90
Signature — Date
U.S. Soil Conservation Service

THIS DEVELOPMENT PLAN IS APPROVED FOR SOIL EROSION AND SEDIMENT CONTROL BY THE HOWARD SOIL CONSERVATION DISTRICT.

[signature] 8/27/90
Approved — Date

STATE OF MARYLAND — RICHARD J. H. STEPP — No. 10562 — REGISTERED PROFESSIONAL ENGINEER

ENGINEER'S CERTIFICATE

I hereby 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.

[signature] 2/6/90
Richard J.H. Stepp — Date

Owner / Developer
ROCKLAND LIMITED PARTNERSHIP
11207 McGee Way
Ellicott City, MD 21043

CLARK • FINEFROCK & SACKETT, INC.
ENGINEERS • PLANNERS • SURVEYORS
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DESIGNED KIWM	SEDIMENT AND EROSION CONTROL PLAN	SCALE 1" = 30'
DRAWN BAL BAK	LOTS 1 thru 13 ROCKLAND SQUARE	DRAWING 3 of 3
CHECKED KIWM	2ND ELECTION DISTRICT HOWARD COUNTY, MARYLAND	JOB NO. 88-013
DATE FEB. 1990	FOR: ROCKLAND LIMITED PARTNERSHIP 11207 McGee Way Ellicott City, Md. 21043	FILE NO. 88-013SE

SDP 90-144