

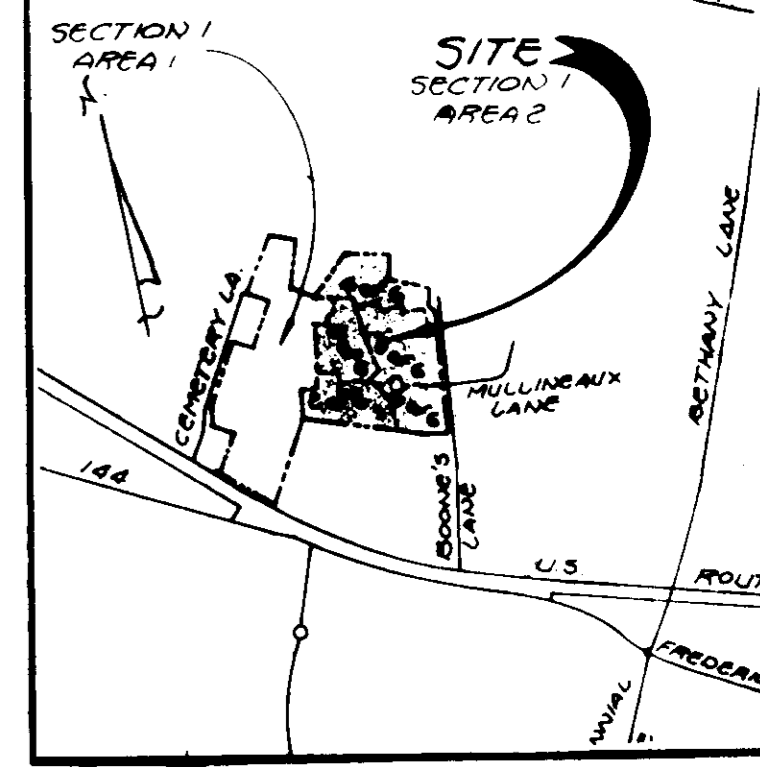
GENERAL NOTES

- 1) STORM WATER MANAGEMENT UNDER # 87-29
- 2) THE LAND INCLUDED IS ZONED R-20
- 3) COORDINATES SHOWN ARE EXTENSIONS MADE FROM THE MARYLAND STATE PLANE COORDINATE SYSTEM. BEARINGS REFER TO THE TRUE NORTH AND ARE BASED ON HOWARD COUNTY GEODETIC SURVEY
- 4) THE AREA COVERED IN THIS SUBMISSION IS LOCATED ON TAX MAP
- 5) THE TOTAL AREA ON THIS PLAN IS 240,000 SQ. FT. (5.50 AC.)
- 6) ALL ROADS ARE PUBLIC AND EXISTING
- 7) ANY DAMAGE TO COUNTY OWNED RIGHT-OF-WAYS SHALL BE CORRECTED AT THE DEVELOPERS EXPENSE
- 8) TOTAL NUMBER OF LOTS IN THIS SUBMISSION ARE 16
- 9) STREET TREES WILL BE PROVIDED IN ACCORDANCE WITH SECTION 16.131 OF THE HOWARD COUNTY SUBDIVISION REGULATIONS BY THE DEVELOPER
- 10) TAX NUMBER #17

SEWER HOUSE CONNECTION INVERT ELEVATIONS AT PROPERTY LINE	
STATION	ELEVATION
MH 50 TO MH 51	417.00
MH 51 TO MH 52	417.00
MH 52 TO MH 53	416.00
MH 53 TO MH 54	401.07
MH 54 TO MH 55	403.00
MH 55 TO MH 56	402.97
MH 56 TO MH 57	401.16
MH 57 TO MH 58	401.70
MH 58 TO MH 59	401.70
MH 59 TO MH 60	404.70
MH 60 TO MH 61	404.06
MH 61 TO MH 62	407.00
MH 62 TO MH 63	407.00
MH 63 TO MH 64	407.00
MH 64 TO MH 65	407.00
MH 65 TO MH 66	407.00
MH 66 TO MH 67	407.00
MH 67 TO MH 68	407.00
MH 68 TO MH 69	407.00
MH 69 TO MH 70	407.00
MH 70 TO MH 71	407.00
MH 71 TO MH 72	407.00
MH 72 TO MH 73	407.00
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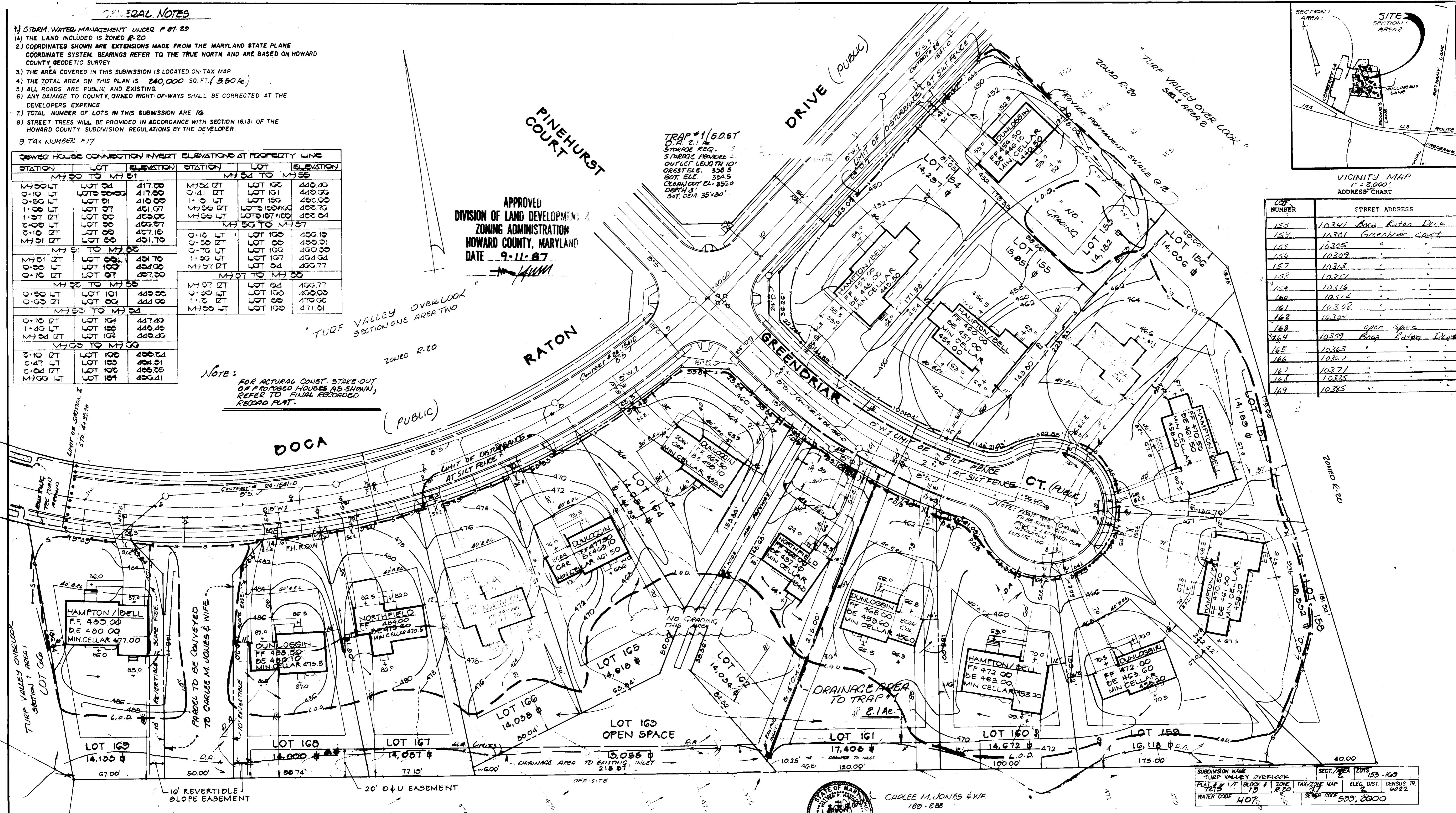
APPROVED
DIVISION OF LAND DEVELOPMENT & ZONING ADMINISTRATION
HOWARD COUNTY, MARYLAND
DATE 9-11-87

NOTE: FOR ACTUAL CONST. STAKE-OUT OF PROPOSED HOUSES AS SHOWN, REFER TO FINAL RECORDED RECORD PLAN.



VICINITY MAP
1" = 2000'
ADDRESS CHART

LOT NUMBER	STREET ADDRESS
153	10341 Boca Raton Drive
154	10301 Greenbrier Court
155	10305 " " "
156	10309 " " "
157	10313 " " "
158	10317 " " "
159	10316 " " "
160	10316 " " "
161	10308 " " "
162	10304 " " "
163	open space
164	10359 Boca Raton Drive
165	10363 " " "
166	10362 " " "
167	10371 " " "
168	10375 " " "
169	10385 " " "



APPROVED FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS HOWARD COUNTY HEALTH DEPARTMENT
DATE 9-28-87
APPROVED HOWARD COUNTY OFFICE OF PLANNING & ZONING
DATE 10-1-87
APPROVED FOR PUBLIC WATER AND PUBLIC SEWERAGE STORM DRAINAGE SYSTEMS AND PUBLIC ROADS HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
DATE 9-23-87

THIS DEVELOPMENT PLAN IS APPROVED FOR SOIL EROSION AND SEDIMENT CONTROL BY THE HOWARD SOIL CONSERVATION DISTRICT
DATE 9/22/87
REVIEWED FOR HOWARD S.C.D. AND MEETS TECHNICAL REQUIREMENTS
DATE 9-22-87

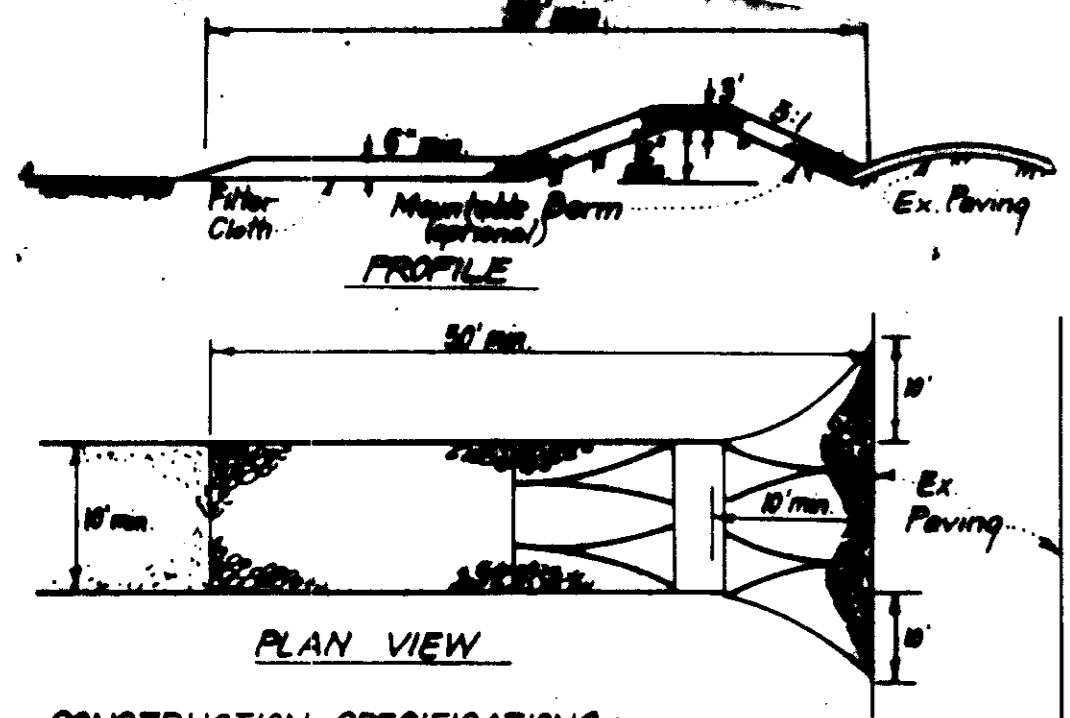
DEVELOPERS/BUILDER'S CERTIFICATE
I CERTIFY THAT ALL DEVELOPMENT AND CONSTRUCTION WILL BE DONE ACCORDING TO THIS PLAN OF DEVELOPMENT AND PLAN FOR EROSION AND SEDIMENT CONTROL AND THAT ALL RESPONSIBLE PERSONS INVOLVED IN THE CONSTRUCTION PROJECT WILL HAVE A CERTIFICATE OF ATTENDANCE AT A DEPT. OF NATURAL RESOURCES APPROVED TRAINING PROGRAM FOR THE CONTROL OF SEDIMENT AND EROSION CONTROL BEFORE BEGINNING THE PROJECT. I ALSO AUTHORIZE PERIODIC ON-SITE INSPECTION BY THE HOWARD SOIL CONSERVATION DISTRICT OF THEIR AUTHORIZED AGENTS AS DEEMED NECESSARY.
DATE 8/17/87

ENGINEER'S CERTIFICATE
I CERTIFY THAT THIS PLAN FOR EROSION AND SEDIMENT CONTROL REPRESENTS A PRACTICAL AND WORKABLE PLAN BASED ON MY PERSONAL KNOWLEDGE OF SITE CONDITIONS AND THAT IT WAS PREPARED IN ACCORDANCE WITH THE REQUIREMENTS OF THE HOWARD SOIL CONSERVATION DISTRICT.
DATE 8/24/87

LAND DESIGN ASSOCIATES
718 HIGHWOOD DRIVE
BALTIMORE, MD 21212 301/323-0805

TURF VALLEY OVERLOOK, SECTION 1 AREA 2
LOTS 153-169 (16 lots)

SITE DEVELOPMENT & SEDIMENT CONTROL PLAN
SECOND ELECTION DISTRICT
HOWARD COUNTY, MARYLAND
SDP-87-250
Robert Awalt Builders, Inc - Owner
3051 Baltimore National Pike
Ellicott City, MD 21040
SCALE 1" = 30'
SHEET 1 OF 2
DATE 6/16/87

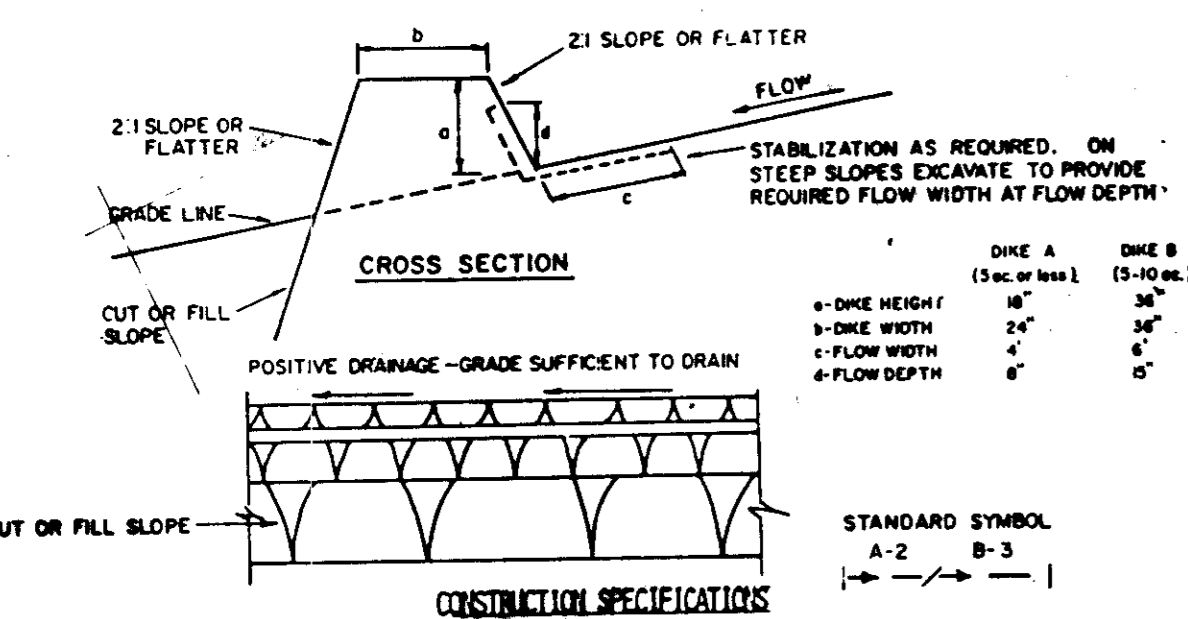


CONSTRUCTION SPECIFICATIONS:

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) feet 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 manhole shall be installed with 5" pipe.
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 by conditions changed and/or cleanup 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. Where 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

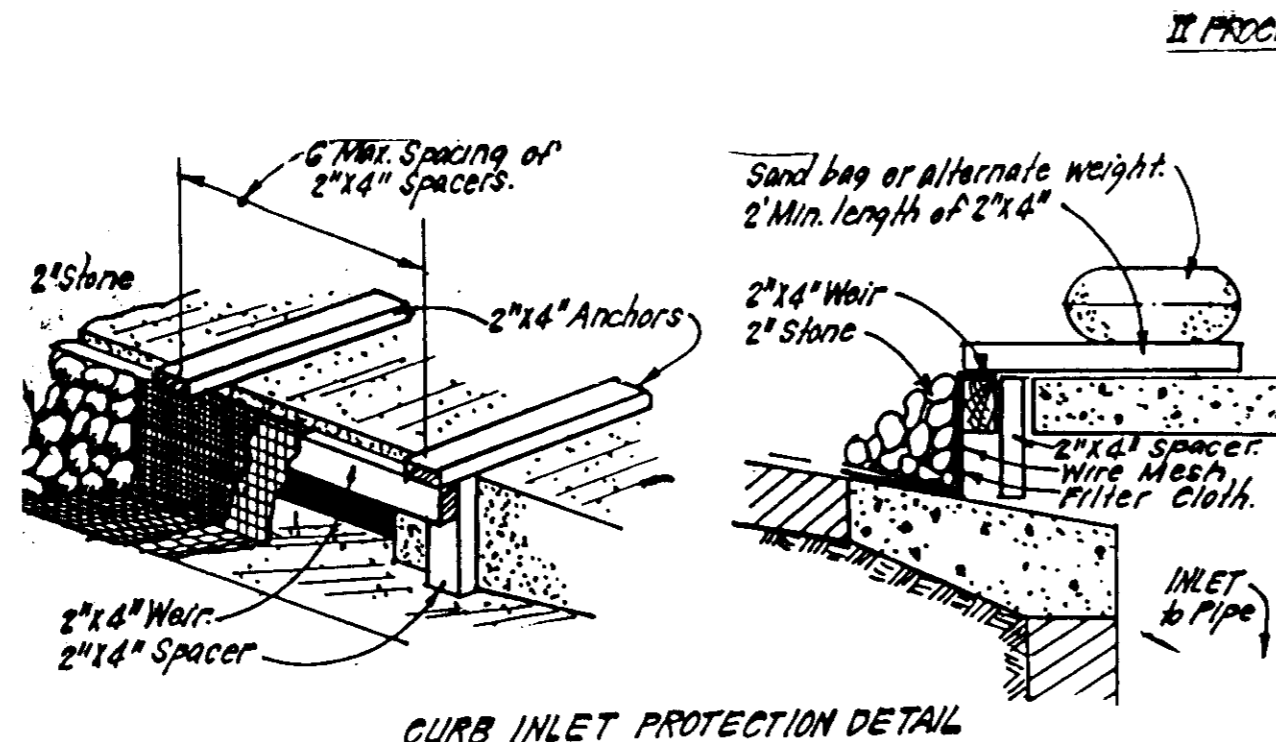


1. ALL DIKES SHALL BE COMPACTED BY EARTH-MOVING EQUIPMENT.
2. DIKES SHALL HAVE POSITIVE DRAINAGE TO AN OUTLET.
3. TOP WIDTH MAY BE WIDER AND SIDE SLOPES MAY BE FLATTER IF DESIRED TO FACILITATE CROSSING BY CONSTRUCTION TRAFFIC.
4. FIELD LOCATION SHOULD BE ADJUSTED AS NEEDED TO UTILIZE A STABILIZED SAFE 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 THE CHART BELOW.

TYPE OF TREATMENT	CHANNEL SLOPE	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 EXCESSIVE SOIL; 2" STONE
3	5.1-8.0%	SEED WITH JUTE, OR SOIL; 2" STONE	LINED RIP-RAP 4-8"
4	8.1-20%	LINED RIP-RAP 4-8"	ENGINEERING DESIGN

- A. Stone to be 2 inch stone, or recycled concrete equivalent, in a layer at least 3 inches in thickness and be pressed into the soil with construction equipment.
- B. RIP-RAP to be 4-8 inches in a layer at least 8 inches in thickness and pressed into the 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 EVENT.

EARTH DIKE (ED)



CURB INLET PROTECTION DETAIL

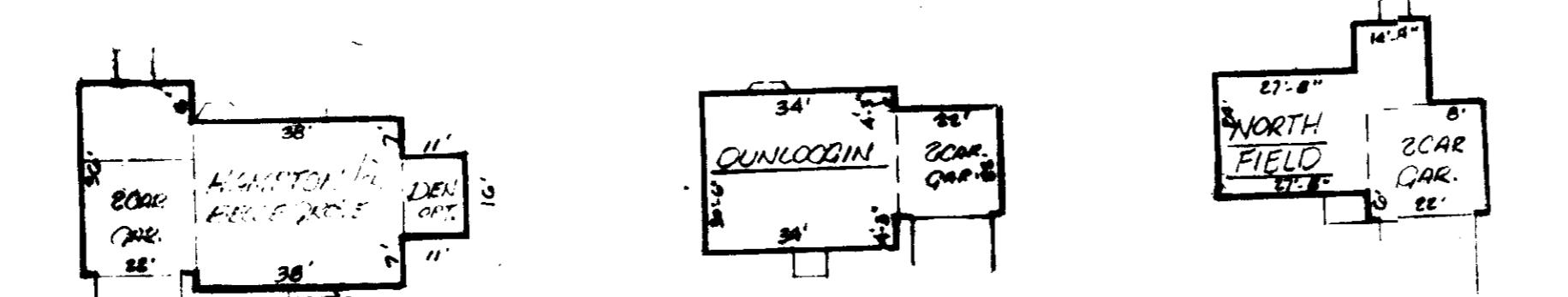
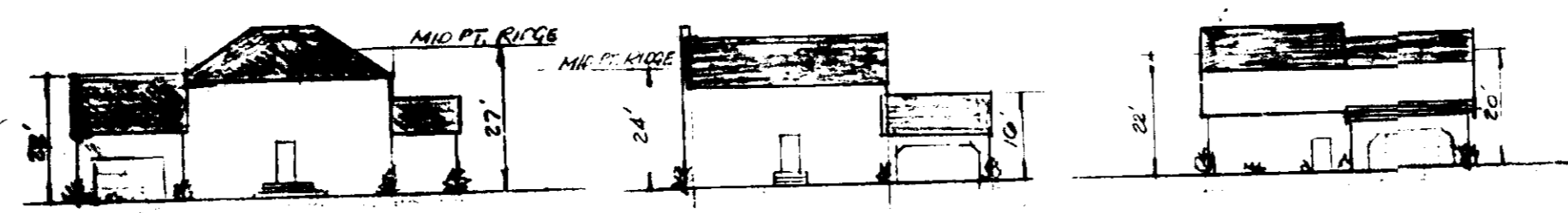
PROCEDURE: CURB INLET PROTECTION

1. Attach a continuous piece of wire mesh (30" min. width by throat length plus 4") to the 2x4" weir (measuring throat length plus 2") as shown on std. drawings.
2. Place a 2x4" spaced filter cloth (50 lbs/acre) of the same dimensions as the wire mesh over the weir and securely attach to the 2x4" weir.
3. Securely nail the 2x4" weir to 3" long vertical spacers to be located between the weir and inlet face (max 6" apart).
4. Place the assembly against the inlet throat and nail (min. 2" lengths of 2x4" to the top of the weir at spacer locations. These 2x4" anchors shall extend across the inlet top and be held in place by sandbags or alternate weight.
5. The assembly shall be placed so that the end spacers are a min. 1" beyond both ends of throat opening.
6. From the wire mesh and filter cloth to the concrete gutter and against the face of curb on both sides of the inlet. Place clean 2" stone over the wire mesh and filter fabric in such a manner as to prevent water from entering the inlet under or around the filter cloth.
7. This type of protection must be inspected frequently and the filter cloth and stone replaced when clogged with sediment.
8. Assure that storm flow does not bypass inlet by installing temporary earth or asphalt dikes directing flow to inlet.

INLET PROTECTION DETAIL (I.P.D.)

TYPICAL HOUSES

SCALE 1"=30'



APPROVED
DIVISION OF LAND DEVELOPMENT
ZONING ADMINISTRATION
HOWARD COUNTY, MARYLAND
DATE 9-11-87

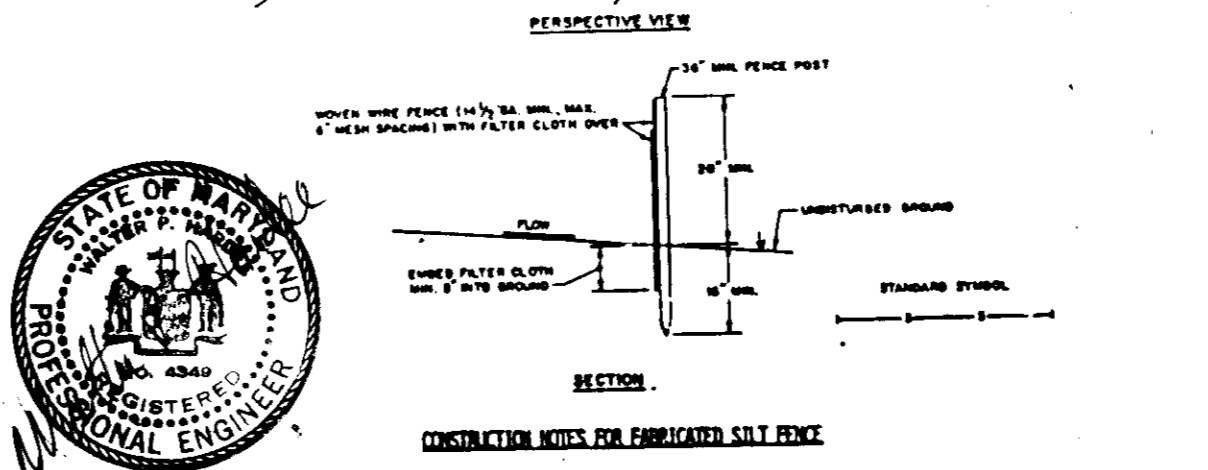
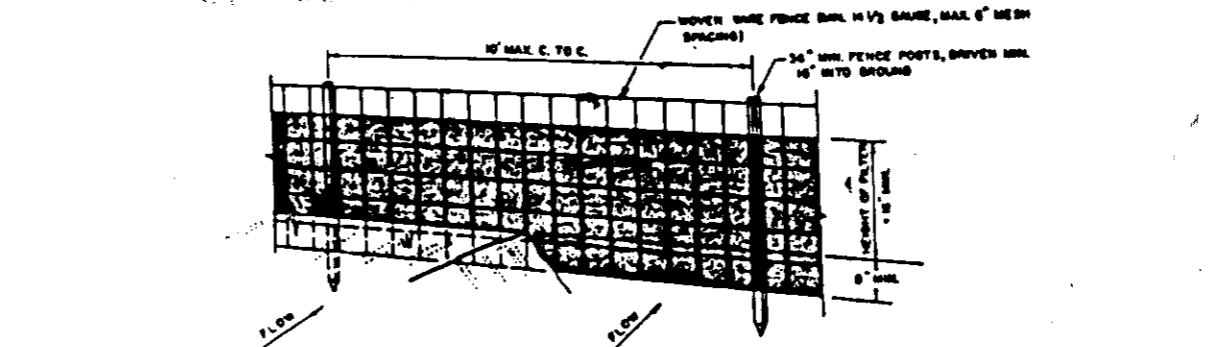
Walter J. Hulse
ENGINEER

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 redistribution, 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 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: 5.50 Acres
Area Disturbed: 3.85 Acres
Area to be roofed or paved: 0.98 Acres
Area to be vegetatively stabilized: 1.67 Acres
Total Cut: 1,600 Cu. yds. (BALANCE ON-SITE)
Total Fill: 1,600 Cu. yds. (BALANCE ON-SITE)
Offsite waste/borrow area location: N/A
- 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 controls 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-Built" basis, at random, Single Lot Sediment Control as shown below shall be implemented. N/A
- 12) All pipes to be blocked at the end of each day (see detail below).
- 13) The total amount of stone/mulch/straw/silt fence equals 300 L.P.

CONSTRUCTION SEQUENCE

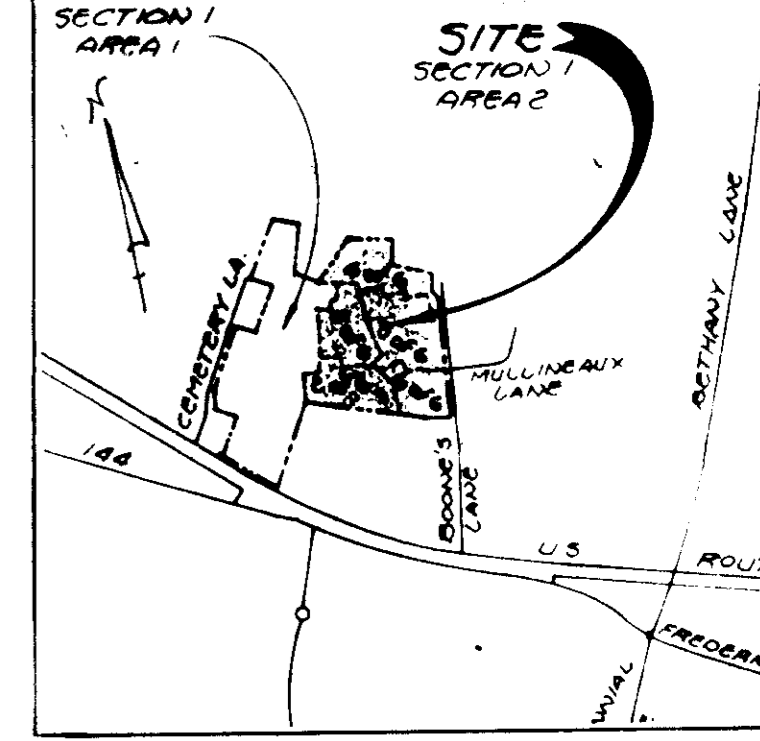
- A. Obtain Grading Permit and Install Sediment and Erosion Control Devices and Stabilize.
- B. Excavate for foundations and Rough Grade of Temporary Mobilize.
- C. Construct Structures, Sidewalks and Driveways.
- D. Final Grade and stabilize in accordance with Stds. & Specs.
- E. Upon approval of the sediment control inspector, remove sediment control devices and stabilize.



1. WHEN WIRE FENCE IS TO BE INSTALLED SECURELY TO FENCE POSTS WITH WIRE TIES OR STAPLES.
2. FILTER FABRIC IS TO BE FASTENED SECURELY TO WOODEN FENCE WITH THIS METHOD.
3. MAKE THE SURFACE OF FILTER FABRIC OVERLAP BY 2" AT EACH END AND POLISHED.
4. MAINTENANCE SHALL BE PROVIDED AS REQUIRED BY THE HOWARD COUNTY DESIGN MANUAL, CHAPTER 12, DEVELOP IN THE SILE FENCE.

ENGINEERS CERTIFICATE
I CERTIFY THAT THIS PLAN FOR EROSION AND SEDIMENT CONTROL REPRESENTS A PRACTICAL AND WORKABLE PLAN BASED ON MY PERSONAL KNOWLEDGE OF SITE CONDITIONS AND THAT IT WAS PREPARED IN ACCORDANCE WITH THE REQUIREMENTS OF THE HOWARD SOIL CONSERVATION DISTRICT.
Walter J. Hulse
ENGINEER
DATE 8/24/87

DEVELOPERS/BUILDER'S CERTIFICATE
I AM 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 PERSONS 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 CONTROL BEFORE BEGINNING THE PROJECT. I ALSO AUTHORIZE PERIODIC ON-SITE INSPECTION BY THE HOWARD SOIL CONSERVATION DISTRICT OF THEIR AUTHORIZED AGENTS. AS DEEMED NECESSARY.
Robert Anhalt Builders, Inc.
SIGNATURE OF DEVELOPER/BUILDER
DATE 8/17/87



VICINITY MAP
SCALE 1"=1200'

GENERAL NOTES

- 1) STORM WATER MANAGEMENT SYSTEMS 87-29
- 2) THE LAND INCLUDED IS ZONED R-20
- 3) COORDINATES SHOWN ARE EXTENSIONS MADE FROM THE MARYLAND STATE PLANE COORDINATE SYSTEM BEARINGS REFER TO THE TRUE NORTH AND ARE BASED ON HOWARD COUNTY GEODETIC SURVEY
- 4) THE AREA COVERED IN THIS SUBMISSION IS LOCATED ON TAX MAP
- 5) THE TOTAL AREA ON THIS PLAN IS 240,000 SQ. FT. (5.50 AC.)
- 6) ALL ROADS ARE PUBLIC AND EXISTING
- 7) ANY DAMAGE TO COUNTY OWNED RIGHT-OF-WAYS SHALL BE CORRECTED AT THE DEVELOPERS EXPENSE
- 8) TOTAL NUMBER OF LOTS IN THIS SUBMISSION ARE 16
- 9) STREET TREES WILL BE PROVIDED IN ACCORDANCE WITH SECTION 18.131 OF THE HOWARD COUNTY SUBDIVISION REGULATIONS BY THE DEVELOPER.

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.

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 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 thru July 31, seed with 60 lbs Kentucky 31 Tall Fescue per acre and 2 lbs per acre (.05 lbs/1000 sq ft) of weeping lovegrass. During the period of October 16 thru February 28, protect site by: Option (1) 2 tons per acre 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 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 reseeding.

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.

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 24 bushels per acre of annual ryegrass (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 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 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.

LAND DESIGN ASSOCIATES
718 HIGHWOOD DRIVE
BALTIMORE, MD 21212 301/323-0805

REVISIONS

TURF VALLEY OVERLOOK, SECTION 1 AREA 2
LOTS 153 - 169 (16 LOTS)

SITE DEVELOPMENT & SEDIMENT CONTROL PLAN
SECOND ELECTION DISTRICT
HOWARD COUNTY, MARYLAND

Robert Anhalt Builders, Inc. - Owner
3051 Baltimore National Pike
Baltimore, MD. 21049

DESIGNED ELP
DRAWN DRG
CHECKED R.W.
SCALE 1"=30'
SHEET 2 OF 2
DATE 6/16/87

APPROVED FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS
HOWARD COUNTY HEALTH DEPARTMENT.
DATE 9-28-87

APPROVED HOWARD COUNTY OFFICE OF PLANNING & ZONING
DATE 10-1-87

APPROVED FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS AND PUBLIC ROADS
HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
DATE 9/24/87

REVIEWED FOR HOWARD S.C.D. AND
HEALTH DEPARTMENT REQUIREMENTS
DATE 9-22-87

THIS DEVELOPMENT PLAN IS APPROVED
FOR SOIL EROSION AND SEDIMENT CONTROL
BY THE HOWARD SOIL CONSERVATION DISTRICT
DATE 8/17/87