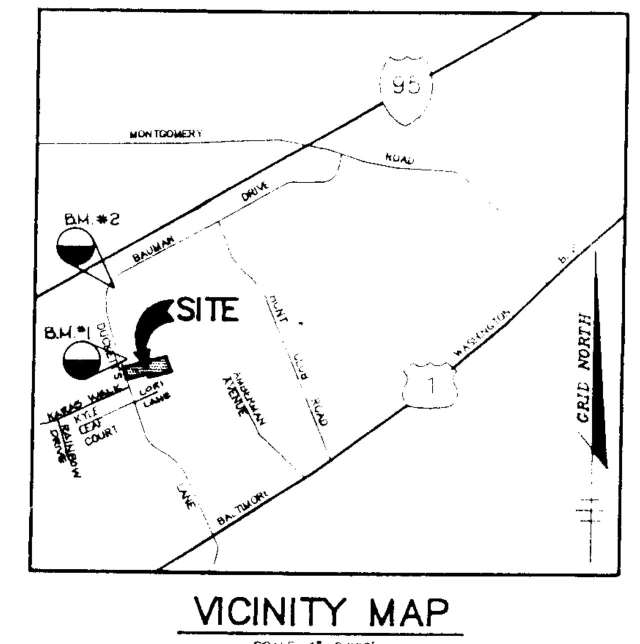


VICINITY MAP

SCALE: 1"=2,000'

BENCH MARKS

BM#1 ELEV 210.09
R.R. SPIKE SET IN G&E POLE 461768, APPROXIATELY 520' SOUTH OF BAUMAN DRIVE DUCKETTS LANE INTERSECTION.

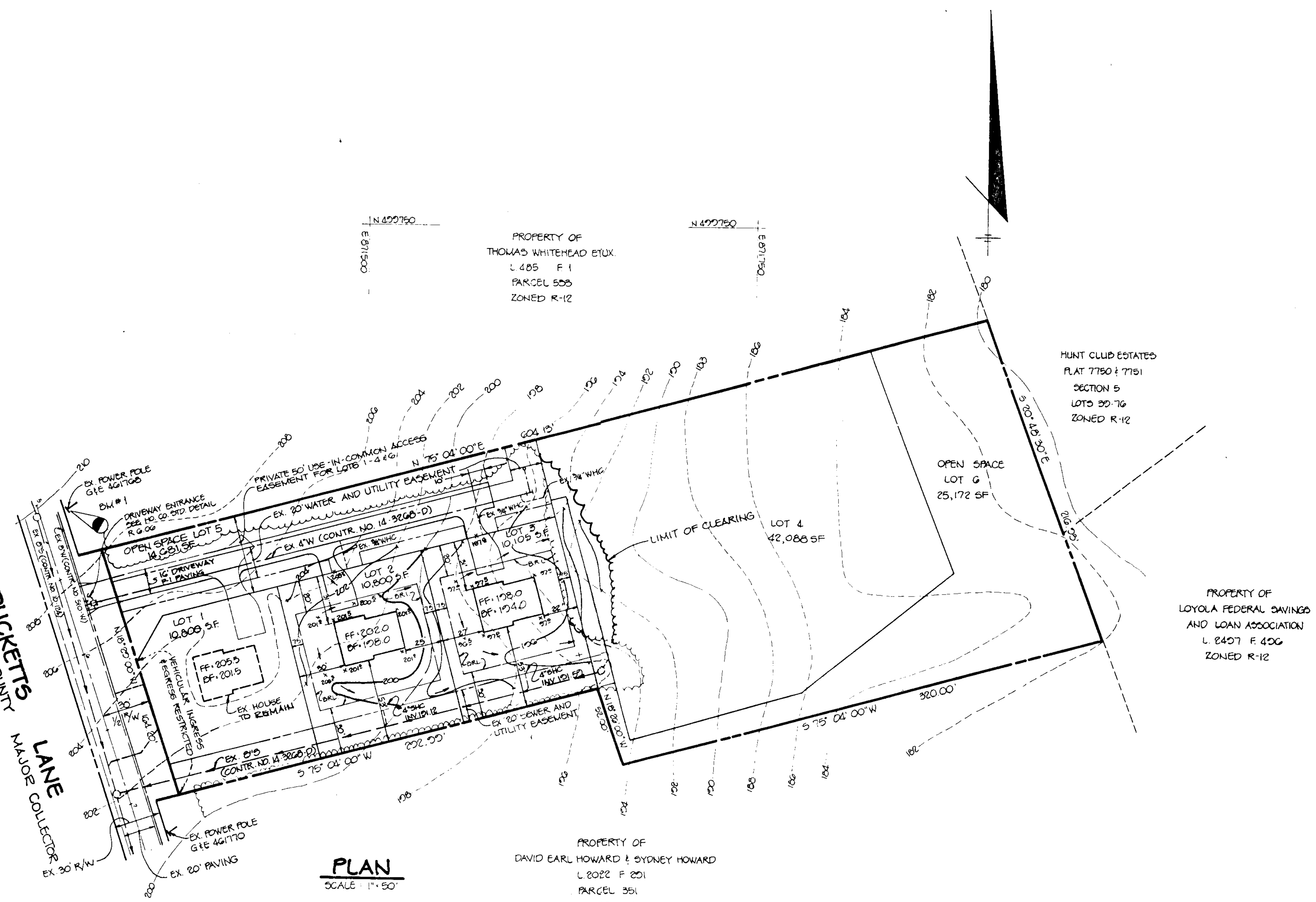
BM#2 ELEV. 207.10
R.R. SPIKE SET IN G&E POLE 457026 LOCATED AT THE INTERSECTION OF BAUMAN DRIVE AND DUCKETTS LANE.

GENERAL NOTES

1. ALL WATER LINES SHALL BE CONSTRUCTED A MINIMUM OF 42" COVER BELOW FINISHED GRADE.
2. ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE LATEST STANDARDS AND SPECIFICATIONS OF HOWARD COUNTY PLUS M.S.H.A. STANDARDS AND SPECIFICATIONS IF APPLICABLE.
3. APPROXIMATE LOCATION OF EXISTING UTILITIES ARE SHOWN FROM BEST AVAILABLE INFORMATION. THE CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO PROTECT THE EXISTING UTILITIES AND MAINTAIN UNINTERRUPTED SERVICE. ANY DAMAGE INCURRED DUE TO CONTRACTOR'S OPERATION SHALL BE REPAIRED IMMEDIATELY AT THE CONTRACTOR'S EXPENSE.
4. THE CONTRACTOR SHALL TEST PIT EXISTING UTILITIES AT LEAST (5) DAYS BEFORE STARTING WORK SHOWN ON THESE DRAWINGS TO VERIFY THEIR LOCATION AND ELEVATION. THE CONTRACTOR SHALL NOTIFY THE ENGINEER IMMEDIATELY IF LOCATION OF UTILITIES IS OTHER THAN SHOWN.
5. THE CONTRACTOR SHALL NOTIFY THE DEPARTMENT OF PUBLIC WORKS/BUREAU OF CONSTRUCTION INSPECTION AT (410) 313-1880 AT LEAST FIVE (5) WORKING DAYS PRIOR TO THE START OF WORK.
6. CONTRACTOR TO NOTIFY THE FOLLOWING UTILITIES OR AGENCIES AT LEAST FIVE DAYS BEFORE STARTING WORK SHOWN ON THESE DRAWINGS:

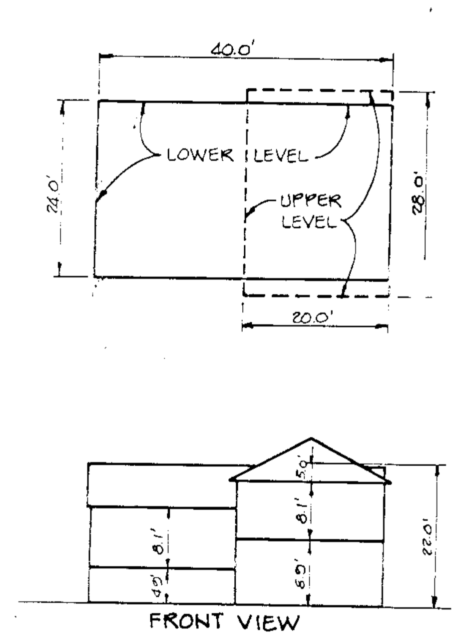
MISS UTILITY	1-800-257-7777
C&P TELEPHONE COMPANY	725-9976
HOWARD COUNTY BUREAU OF UTILITIES	313-4900
AT&T CABLE LOCATION DIVERSION	393-3553
BALTIMORE GAS & ELECTRIC COMPANY	685-0123
STATE HIGHWAY ADMINISTRATION	531-5533

7. TRAFFIC CONTROL DEVICES, MARKINGS AND SIGNING SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD). ALL STREET AND REGULATORY SIGNS SHALL BE IN PLACE PRIOR TO THE PLACEMENT OF ANY ASPHALT.
8. ALL INLETS SHALL BE CONSTRUCTED IN ACCORDANCE WITH HOWARD COUNTY STANDARDS.
9. ALL PIPE ELEVATIONS SHOWN ARE INVERT ELEVATIONS.
10. THE CONTRACTOR SHALL PROVIDE A JOINT IN ALL SEWER MAINS WITHIN 2'-0" OF EXTERIOR MANHOLE WALLS.
11. PROFILE STATIONS SHALL BE ADJUSTED AS NECESSARY TO CONFORM TO PLAN DIMENSIONS.
12. NO PIPE SHALL BE LAID UNTIL LINES OF EXCAVATION HAVE BEEN BROUGHT TO SUBGRADE.
13. TOPO TAKEN FROM FIELD RUN SURVEY DATED FEB, 1992 SUPPLIED BY THE DEVELOPER, CONTOURS SHOWN AT 2 FOOT INTERVAL.
14. UNLESS OTHERWISE NOTED ON PLAN, TREES ARE TO BE PRESERVED.
15. ALL STORM DRAIN PIPE BEDDING SHALL BE AS SHOWN IN DETAIL G2.01 (TRENCH IN ROCK OR TRENCH IN EARTH AS DETERMINED BY FIELD CONDITIONS) IN VOL. IV OF HOWARD COUNTY DESIGN MANUAL UNLESS OTHERWISE DIRECTED BY THE ENGINEER OR AS SHOWN ON THE DRAWINGS.
16. THE DEVELOPER IS RESPONSIBLE FOR THE ACQUISITION OF ALL EASEMENTS, RIGHTS AND/OR RIGHTS-OF-WAY 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 WORK ON ADJACENT PROPERTIES INCLUDED IN THIS PLAN.
17. FEE-IN-LIEU OF STORMWATER MANAGEMENT HAS BEEN APPLIED FOR. WATER QUALITY MANAGEMENT IS PROVIDED FOR EACH HOUSE BY VEGETATED BUFFERS AND OVERLAND FLOW.
18. WATER AND SEWER IS PROVIDED UNDER CONTRACT DRAWING 14-3268-D.
19. AS PER DEPARTMENT OF PUBLIC WORKS LETTER DATED APRIL 22, 1993, A WAIVER WAS GRANTED TO ALLOW LOTS 3&4 NOT TO BE SERVED BY GRAVITY SEWER.
20. A PUBLIC ROAD FOR VEHICULAR ACCESS FOR ALL LOTS AND ALL THE DRIVEWAY ENTRANCES WILL BE CONSTRUCTED AT THE DEVELOPERS EXPENSE WHEN THE SUBDIVISION OF LOT 4 (i.e., PHASE II) TAKES PLACE.



PLAN

SCALE: 1"=50'



TYPICAL HOUSE ELEVATION

NO SCALE

MINIMUM LOT SIZE CHART

LOT NO.	GROSS AREA	PIPESTEM AREA	REMAINING AREA	100 YR FLOODPLAIN	25% SLOPES	MIN. LOT SIZE
2	10800	0	10800	0	0	10800
3	10105	0	10105	0	0	10105

ADDRESS CHART

LOT NUMBER	STREET ADDRESS
2	6085 DUCKETTS LANE
3	6081 DUCKETTS LANE

SUBDIVISION NAME				SECT./AREA	LOT #	
GREEN'S PROPERTY				—	2-3	
PLAT #	BLOCK #	ZONING	TAX MAP NO.	ELECTION DIST.	CENSUS TRACT	
10858	12	R-12	37	FIRST	6012	
WATER CODE				SEWER CODE		
D 07				2152700		

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

Joyce M Boyd [illegible] 8/30/93
COUNTY HEALTH OFFICER — DATE

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING.

[illegible] 9/1/93
DIRECTOR — DATE

Gina Jurumany 9/1/93
CHIEF, DIVISION OF LAND DEVELOPMENT AND RESEARCH — DATE

APPROVED: STORM DRAINAGE SYSTEMS AND PUBLIC ROADS, PUBLIC WATER AND PUBLIC SEWERAGE.

[illegible] [illegible]
DIRECTOR — DATE

[illegible] 8/26/93
CHIEF, BUREAU OF ENGINEERING — DATE

DATE	NO.	REVISION

OWNER/DEVELOPER
BALTIMORE BELVEDERE INVESTORS, INC.
2028 FEATHERBED LANE
BALTIMORE, MARYLAND 21207

PROJECT: **GREEN'S ESTATES**
LOTS 2 AND 3

AREA TAX MAP NO 37 ZONED R-12 PARCEL 353
1ST ELECTION DISTRICT
HOWARD COUNTY, MARYLAND

TITLE: **SITE DEVELOPMENT PLAN**
LOTS 2 AND 3

RIEMER MUEGGE & ASSOCIATES, INC.
PLANNING, ENGINEERING AND SURVEYING
8818 Centre Park Drive Suite 200 Columbia, Md 21045
410-997-8900 FAX: 410-997-9282

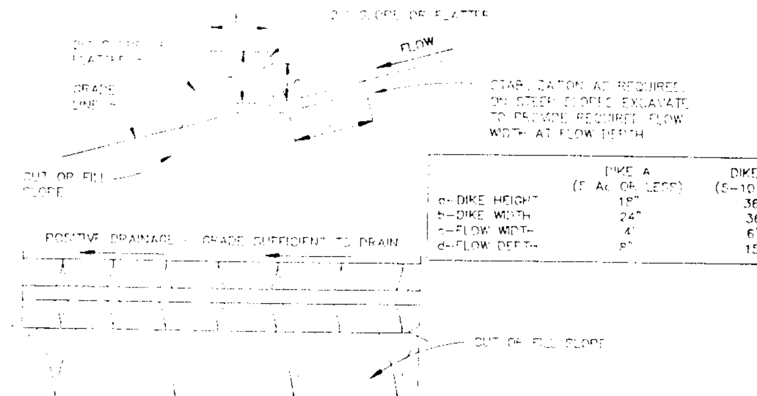
8.10.93
DATE

J. Parekh
JAYKANT D. PAREKH #15148

F-92-133 WP-92-217
DESIGNED BY: CJR
DRAWN BY: M.A.D.
PROJECT NO: 88500
DATE: AUGUST 12, 1993
SCALE: AS SHOWN
DRAWING NO. 1 OF 2

SDP-93-124

MARYLAND BLUEPRINT CO., INC.



	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 THE CHART BELOW.

FLOW CHANNEL STABILIZATION

TYPE OF TREATMENT	CHANNEL GRADE	DIKE A	DIKE B
1	0.5-3.0%	SEED & STRAW MULCH	SEED & STRAW MULCH
2	3.1-5.0%	SEED & STRAW MULCH	SEED USING JUTE, OR EXCELSIOR; SOD; 2" STONE
3	5.1-8.0%	SEED WITH JUTE, OR SOD; 2" STONE	LINED RIPRAP 4-8"
4	8.1-20%	LINED RIPRAP 4-8"	ENGINEERED 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.

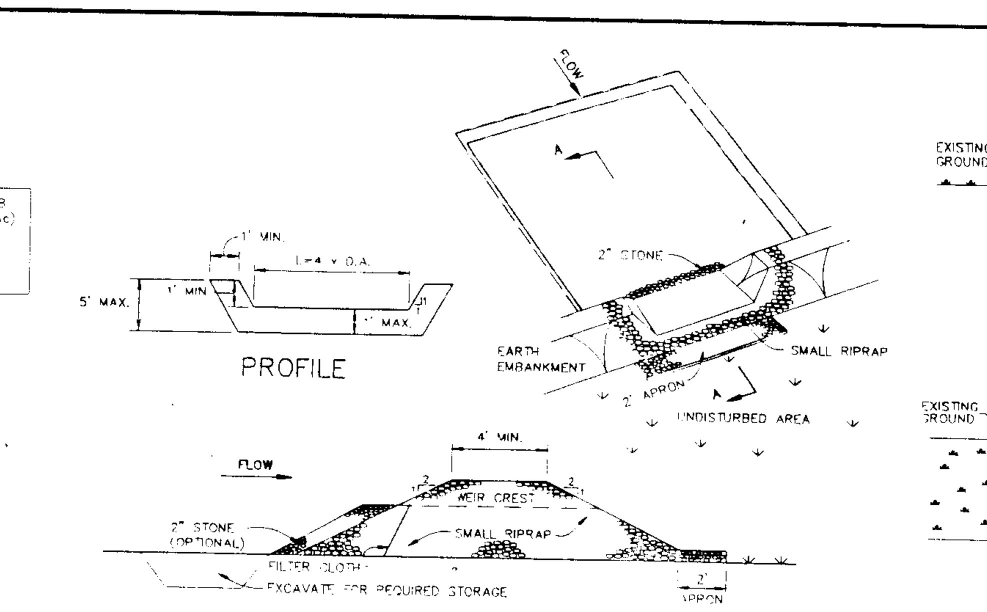
B. RIPRAP TO BE 4-8 INCHES IN A LAYER AT LEAST 8 INCHES THICKNESS AND PRESSED INTO THE SOIL.

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

NO SCALE



CROSS SECTION A–A

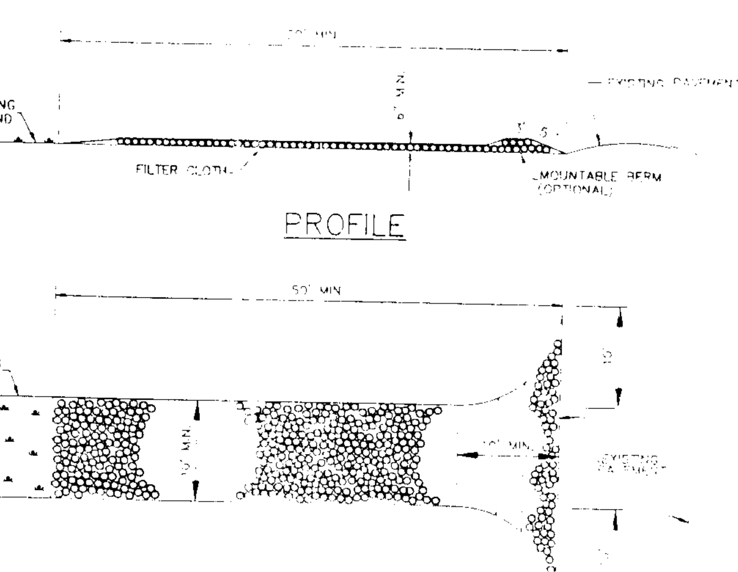
OPTION: A ONE FOOT LAYER OF 2" STONE MAY BE PLACED ON THE UPSTREAM SIDE OF THE RIPRAP IN PLACE OF THE EMBEDDED FILTER CLOTH.

CONSTRUCTION SPECIFICATIONS

1. AREA UNDER EMBANKMENT SHALL BE CLEARED, GRUBBED AND STRIPPED OF ANY VEGETATION AND ROOT MAT. THE POOL AREA SHALL BE CLEANED.
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 RIPRAP 4"-8" ALONG WITH A 1' THICKNESS OF 2" AGGREGATE PLACED ON THE UP-GRADE SIDE ON THE SMALL RIPRAP OR EMBEDDED FILTER CLOTH IN THE RIPRAP.
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 THAN 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

NO SCALE

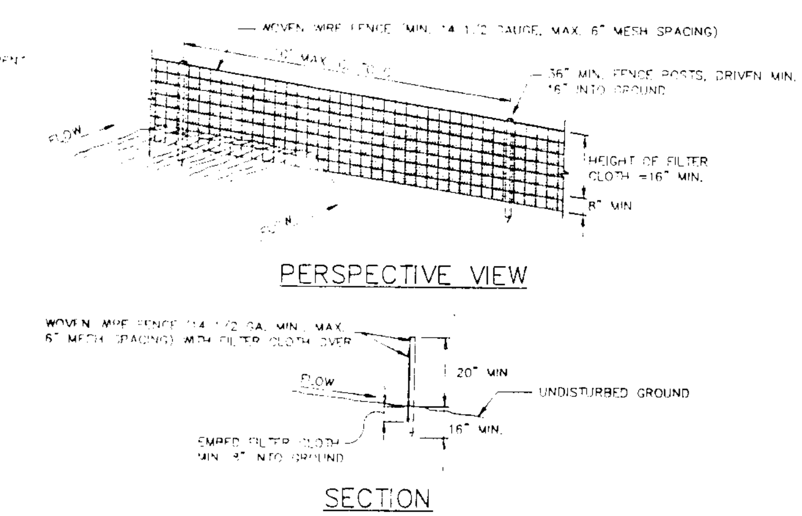


CONSTRUCTION SPECIFICATIONS

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 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 and egress occurs.
5. Filter Cloth – Will be placed over the entire area prior to placing of stone. Filter cloth will not be required on a single family residence lot.
6. Surface Water – All surface water flowing or diverted toward construction entrance 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

NO SCALE



CONSTRUCTION NOTES FOR FABRICATED SILT FENCE

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 two sections of filter cloth adjoin each other they shall be overlapped by six inches and folded.
4. Maintenance shall be performed as needed and material removed when "bulges" develop in the silt fence.

POSTS: Steel, either T or U type or 2" hardwood.
FENCE: Woven wire, 14 Ga. 6" max. mesh opening.
FILTER CLOTH: Filter X, Mirafi 100X, Stabilinka T140N or approved equal.
PREFABRICATED UNIT: Geofab, Envirofence or approved equal.

SILT FENCE DETAIL

NO SCALE

PERMANENT SEEDING

Seedbed Preparation: Flat areas and slopes up to 3:1 slope shall be loose and friable to a depth of at least 3 inches. The top layer of soil shall be loosened by raking, discing or other acceptable means before seeding. Slopes steeper than 3:1 shall have the top 1 to 3 inches of soil loose and friable before seeding.

Soil Amendments: Use one of the following schedules:

Lime and fertilize according to soil tests. Lime and fertilizer needs can be determined by a soil testing laboratory, such as the University of Maryland's Soil Testing Laboratory.

In lieu of soil test results, use one of the following schedules:

1) Preferred – Apply 2 tons per acre dolomitic limestone (92 LBS/1000 SF) and 600 LBS per acre 10-10-10 fertilizer (14 LBS/1000 SF) before seeding. Harrow or disc into upper three inches of soil. At time of seeding, apply 400 LBS per acre 38-0-0 ureaform fertilizer (9 LBS/1000 SF).

2) Acceptable – Apply 2 tons per acre dolomitic limestone (92 LBS/1000 SF) and 1000 LBS per acre 10-10-10 fertilizer (23 LBS/1000 SF) before seeding. Harrow or disc into upper three inches of soil.

On slopes steeper than 3:1 slope, the lime and fertilizer shall be worked the best way possible. On sloping land, the final harrowing or discing operation should be on the contour wherever feasible. No attempt should be made to drag any disced area to make the soil surface smooth after discing.

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 SF) 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 SF) of Weeping Lovegrass.

For the period 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 (1.4 LBS/1000 SF) Kentucky 31 Tall Fescue and mulch with 2 tons per acre well-anchored straw.

Apply seed uniformly with a cyclone seeder, drill, cultipacker seeder or hydroseeder (slurry includes seed and fertilizer) on a firm, moist seedbed. Maximum seeding depth should be 1/4 inch on clayey soils and 1/2 inch on sandy soils, when using other than hydroseeder method of application. Note: If hydroseeding is used and the seed and fertilizer is mixed, they shall be mixed on site and the seeding shall be immediate without interruption.

Mulching: See Mulching Specification.

Irrigation:

If soil moisture is deficient, supply new seedings with adequate water for plant growth until they are firmly established, if feasible. This is especially true when seedings are made late in the planting season, in abnormally dry or hot seasons, or on adverse sites.

Maintenance:

Irrigation – If soil moisture becomes deficient, irrigate to prevent loss of stand of protective vegetation, if feasible.
Repairs – Inspect all seeded areas for failures and make necessary repairs, replacements, and reseeding within the planting season, if possible.
1) If stand is inadequate for erosion control, overseed and fertilize using half of the rates originally applied.
2) If stand is over 60% damaged, reestablish following original lime, fertilizer, seedbed preparation, and seeding recommendations.

TEMPORARY SEEDING

Seedbed Preparation:

When the area to be seeded has been recently loosened to the extent that an adequate seedbed exists, no additional treatment is required. However, when the area to be seeded is packed, crusted, and hard, the top 3 inches of soil shall be loosened by discing, raking or other acceptable means before seeding.

Soil Amendments:

For temporary seedings, fertilizer shall be applied at the rate of 600 LBS per acre (15 LBS/1000 SF), using 10-10-10 or equivalent. Soils which are highly acid should be limed.

Seeding:

For periods March 1 thru April 30 and August 15 thru November 15. Seed with 2 1/2 BU per acre (3.2 LBS/1000 SF) of annual rye.

For the period May 1 thru August 14. Seed with 3 LBS per acre (.07 LBS/1000 SF) of Weeping Lovegrass.

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.

Apply seed uniformly with a cyclone seeder, drill, cultipacker seeder or hydroseeder (slurry includes seed and fertilizer).

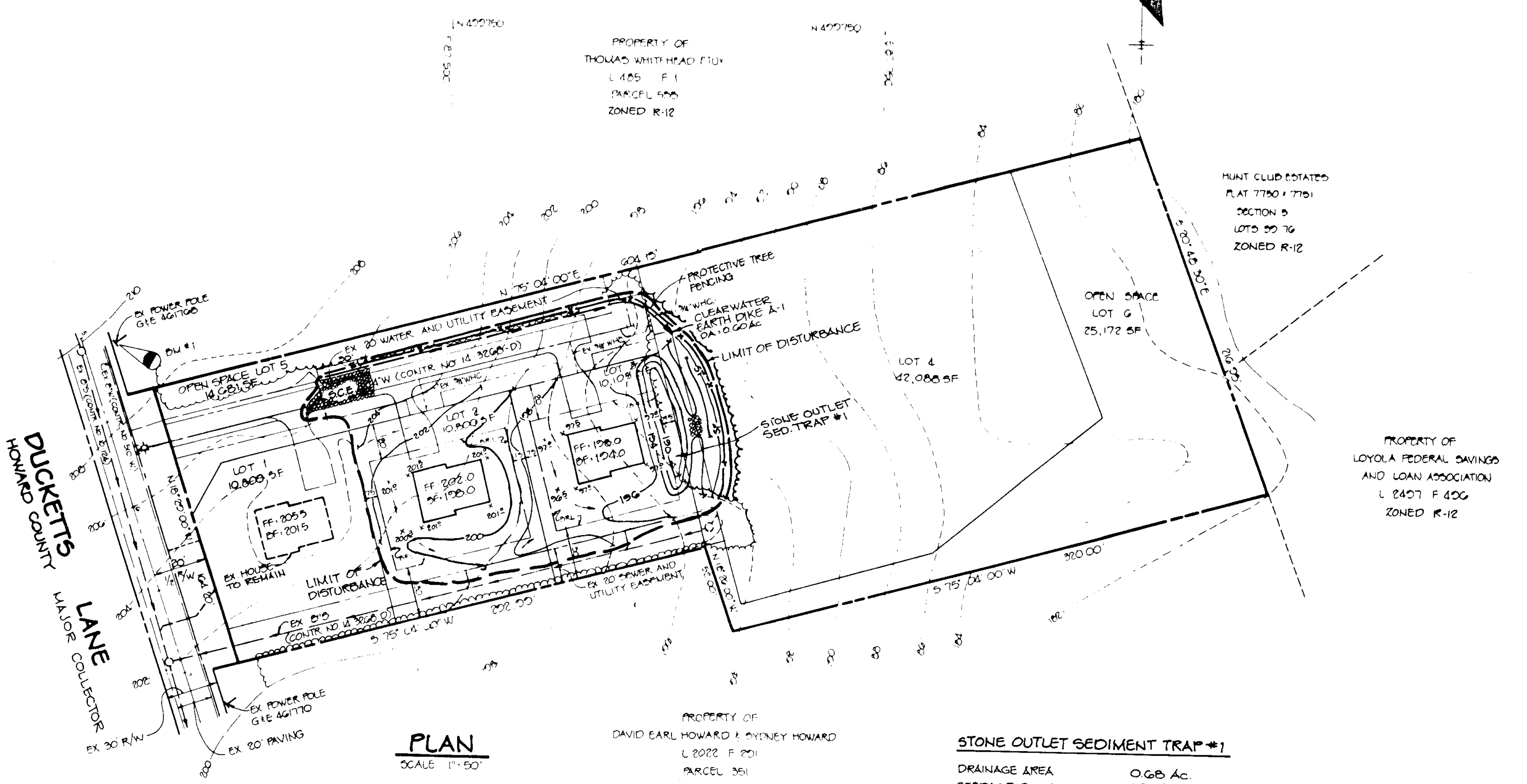
Mulching: See Mulching Specification.

SEDIMENT CONTROL NOTES

1. A minimum of 24 hours notice must be given to the Howard County Office of Inspections 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 AND EROSION 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 other disturbed or graded areas on the project site.
4. All sediment traps/basins shown must be 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 AND EROSION 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	2.61	acres
Area Disturbed	0.74	acres
Area to be roofed or paved	0.22	acres
Area to be vegetatively stabilized	0.52	acres
Total Cut	1030	cu.yds.
Total Fill	243	cu.yds.

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 Department of Public Works Sediment Control Inspector.
10. Site grading will begin only after all perimeter sediment control measures have been installed and are in a functioning condition.
11. Sediment will be removed form traps when its depth reaches clean out elevation shown on the plans.
12. Cut and fill quantities provided under site analysis do not represent bid quantities. These quantities do not distinguish between topsoil, structural fill or embankment material, nor do they reflect consideration of undercutting or removal of unsuitable material. The contractor shall familiarize himself with site conditions which may affect the work.

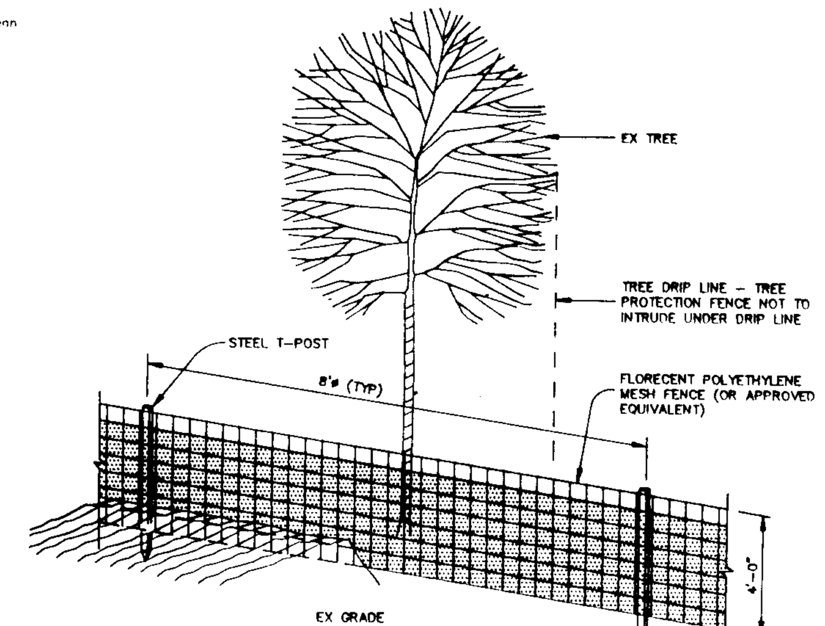


PLAN

SCALE 1"=50'

STONE OUTLET SEDIMENT TRAP #1

DRAINAGE AREA	0.68 Ac.
STORAGE REQUIRED	1224 C.F.
STORAGE PROVIDED	1400 C.F.
CREST ELEVATION	193.0
CLEANOUT ELEVATION	191.5
BOTTOM ELEVATION	190.0
CREST WIDTH	6'
DEPTH	3.0'



PROTECTIVE TREE FENCING ELEVATION DETAIL

NO SCALE

TREE PRESERVATION PROCEDURES

1. THE EDGE OF WOODS TO BE PROTECTED WILL BE MARKED IN THE FIELD PER THE APPROVED SITE DEVELOPMENT PLAN PRIOR TO THE START OF CONSTRUCTION ACTIVITY.
2. PROTECTIVE FENCING SHALL BE INSTALLED AT THE DRIP LINE OF THE EDGE OF WOODS. ALL AREAS WITHIN PROTECTIVE FENCES ARE TO BE CONSIDERED OFF LIMITS FOR ANY CONSTRUCTION ACTIVITITY.
3. PROTECTIVE FENCING WILL BE THE RESPONSIBILITY OF THE GENERAL CONTRACTOR. THE GENERAL CONTRACTOR WILL AFFIX SIGNS TO THE FENCING INDICATING THAT THESE AREAS ARE TREE PRESERVATION AREAS. THE GENERAL CONTRACTOR SHALL TAKE UTMOST CARE TO PROTECT TREE ROOT SYSTEMS DURING THE CONSTRUCTION CYCLE. TREE ROOT SYSTEMS SHALL BE PROTECTED FROM SMOTHERING, FLOODING, EXCESSIVE WETTING FROM DE-WATERING OPERATIONS, OFF-SITE RUN OFF, SPILLAGE, AND DRAINAGE OF SOLUTIONS CONTAINING MATERIALS HAZARDOUS TO TREE ROOTS.
4. REMOVAL OF TOPSOIL OR ROOT MAT WITHIN THE TREE PRESERVATION AREA SHALL BE PROHIBITED. THE GENERAL CONTRACTOR SHALL BE PROHIBITED FROM PARKING ANY CONSTRUCTION EQUIPMENT, OR FROM STORING ANY BUILDING SUPPLIES OR EARTH STOCKPILES WITHIN THE TREE PRESERVATION AREAS.
5. FOOT TRAFFIC, AS WELL AS VEHICULAR TRAFFIC, IN THE TREE PRESERVATION AREAS SHALL BE KEPT TO A MINIMUM. THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR ANY TREE DAMAGED OR DESTROYED WITHIN THE TREE PRESERVATION AREAS, WHETHER CAUSED BY THE CONTRACTOR, HIS AGENTS, EMPLOYEES, SUB-CONTRACTORS, OR LICENSES.
6. CONSTRUCTION ACTIVITIES EXPRESSLY RESTRICTED WITHIN THE TREE PRESERVATION AREAS: PLACING BACKFILL IN PROTECTED AREAS, FELLING TREES INTO PROTECTED AREAS, DRIVING CONSTRUCTION EQUIPMENT INTO OR THROUGH PROTECTED AREAS, BURNING IN OR IN CLOSE PROXIMITY TO PROTECTED AREAS, STACKING OR STORING SUPPLIES IN PROTECTED AREAS, CONDUCTING TRENCHING OPERATIONS IN PROTECTED AREAS, GRADING BEYOND THE LIMITS OF DISTURBANCE.
7. THE GENERAL CONTRACTOR SHALL PROVIDE A WASH OUT AREA FOR CONCRETE TRUCKS ON SITE, WHICH WILL NOT DRAIN TOWARDS A PROTECTED AREA.
8. ALL TREES WHICH ARE NOT TO BE PRESERVED WITHIN FIFTY FEET OF ANY TREE PRESERVATION AREAS ARE TO BE REMOVED IN A MANNER THAT WILL NOT DAMAGE THOSE TREES THAT ARE DESIGNATED FOR PRESERVATION. IT IS HIGHLY RECOMMENDED THAT TREE STUMPS WITHIN THIS FIFTY FOOT AREA BE GROUND OUT WITH A STUMP GRINDING MACHINE TO MINIMIZE DAMAGE.

SEQUENCE OF CONSTRUCTION

1. OBTAIN A GRADING PERMIT.
2. INSTALL PROTECTIVE TREE FENCING. (1 DAY)
3. INSTALL S.C.E., SILT FENCE AND CLEARWATER EARTH DIKE. (1 DAY)
4. INSTALL STONE OUTLET SEDIMENT TRAP. (1 DAY)
5. PERFORM GRADING AND BEGIN BUILDING CONSTRUCTION. (3 DAYS)
6. STABILIZE ALL DISTURBED AREA IN ACCORDANCE WITH THE TEMPORARY SEEDING NOTES. (1 DAY)
7. COMPLETE ALL CONSTRUCTION INCLUDING UTILITIES
8. UPON THE APPROVAL OF THE HOWARD COUNTY DPW SEDIMENT CONTROL INSPECTOR REMOVE ALL SEDIMENT CONTROLS AND STABILIZE ALL DISTURBED AREAS IN ACCORDANCE WITH THE PERMANENT SEEDING NOTES.

BY THE DEVELOPER:

"I/WE CERTIFY THAT ALL DEVELOPMENT AND CONSTRUCTION WILL BE DONE ACCORDING TO THIS PLAN, AND THAT ANY RESPONSIBLE PERSONNEL INVOLVED IN THE CONSTRUCTION PROJECT WILL HAVE A CERTIFICATE OF ATTENDANCE AT THE MARYLAND DEPARTMENT OF THE ENVIRONMENT APPROVED TRAINING PROGRAM FOR THE CONTROL OF SEDIMENT AND EROSION BEFORE BEGINNING THE PROJECT. I ALSO AUTHORIZE PERIODIC ON-SITE INSPECTIONS BY THE HOWARD SOIL CONSERVATION DISTRICT."

[signature] DEVELOPER — 8-10-93 DATE

BY THE ENGINEER:

"I 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."

J. Parekh ENGINEER — 8-10-93 DATE

REVIEWED FOR Howard S.C.D. (NAME) AND MEETS TECHNICAL REQUIREMENTS

James M. Helm U.S. SOIL CONSERVATION SERVICE — 8/18/93 DATE

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

John R. Robertson HOWARD S.C.D. — 8/18/93 DATE

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

Joyce M Boyd... COUNTY HEALTH OFFICER — 8/30/93 DATE

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING.

[signature] DIRECTOR — 9/1/93 DATE

Gina Irvinmanji CHIEF, DIVISION OF LAND DEVELOPMENT AND RESEARCH — 9/1/93 DATE

APPROVED: STORM DRAINAGE SYSTEMS AND PUBLIC ROADS, PUBLIC WATER AND PUBLIC SEWERAGE.

[signature] DIRECTOR — 8.26.93 DATE

[signature] CHIEF, BUREAU OF ENGINEERING — 8/26/93 DATE

DATE	NO	REVISION

OWNER/DEVELOPER
BALTIMORE BELVEDERE INVESTORS, INC
2028 FEATHERBED LANE
BALTIMORE, MARYLAND 21207

PROJECT: GREEN'S ESTATES
LOTS 2 AND 3

AREA: TAX MAP NO. 37 — ZONED R-12 — PARCEL 553
1ST ELECTION DISTRICT
HOWARD COUNTY, MARYLAND

TITLE: GRADING & SEDIMENT CONTROL PLAN
LOTS 2 AND 3

RIEMER MUEGGE & ASSOCIATES, INC.
PLANNING, ENGINEERING AND SURVEYING
8818 Centre Park Drive Suite 200 Columbia, Md 21045
410-997-8900 FAX : 410-997-9282

8.10.93 DATE

JAYKANT D. PAREKH #10148

F-92-133 WP-92-217

DESIGNED BY: CJR
DRAWN BY: DAM
PROJECT NO: 88500
DATE: AUGUST 12, 1993
SCALE: AS SHOWN
DRAWING NO. 2 OF 2

SDP-93-124

MARYLAND BLUEPRINT CO. INC.