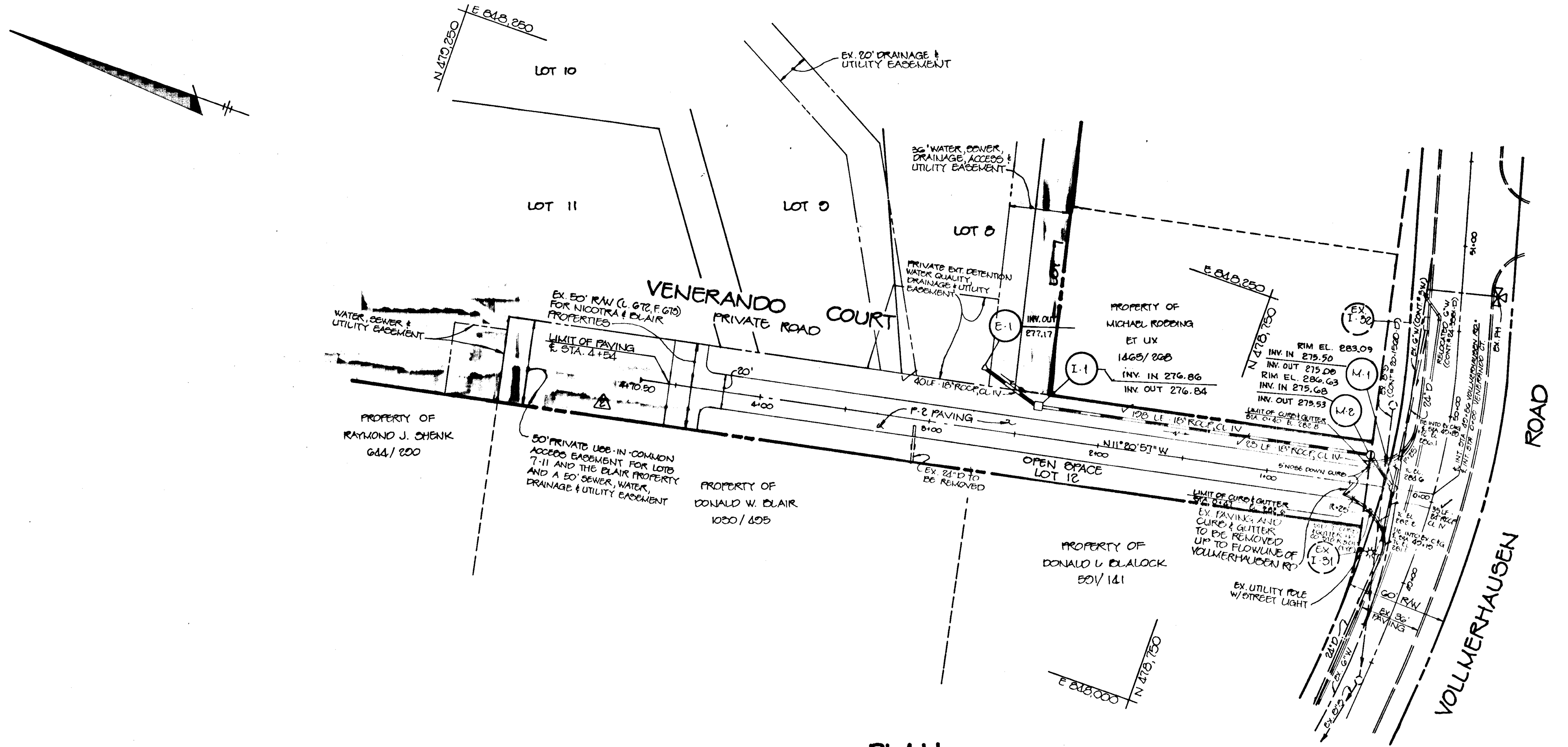


PLAN

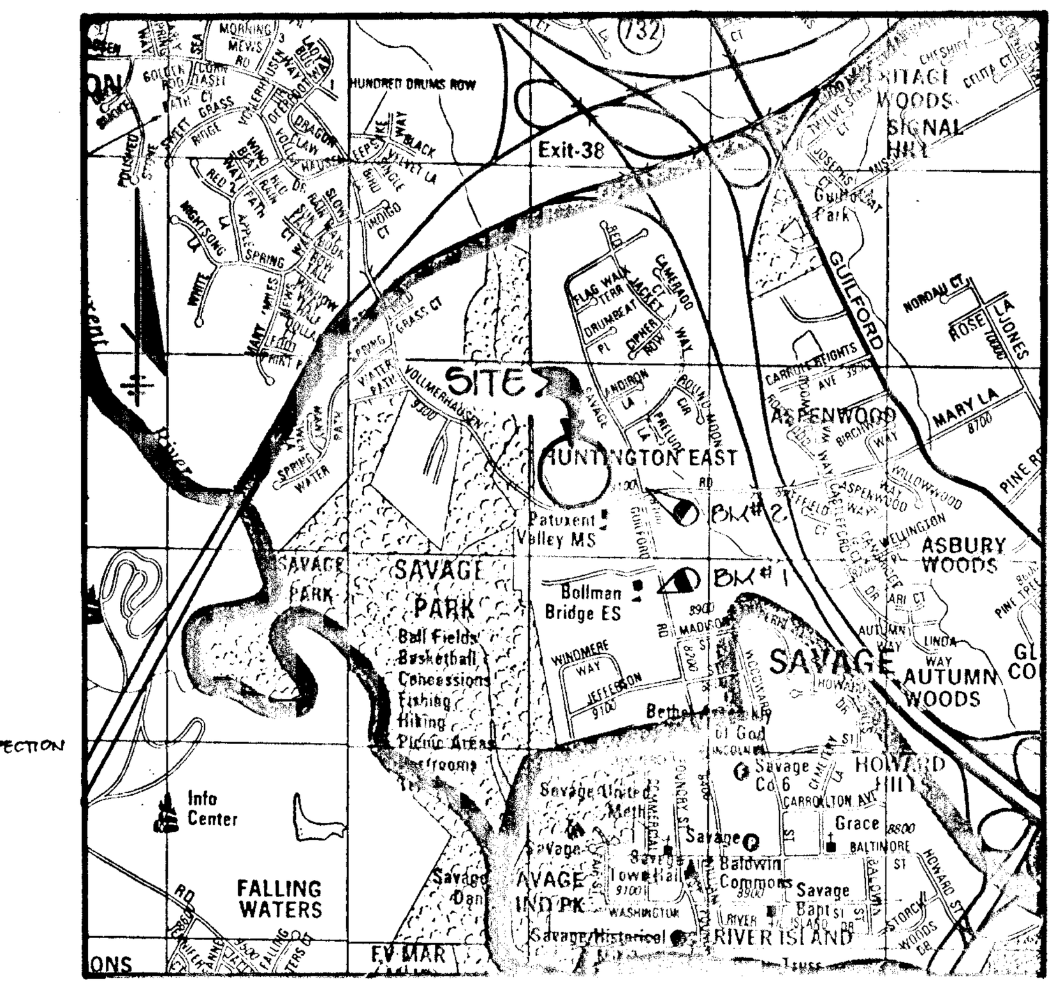
SCALE: 1"=50'

GENERAL NOTES

1. ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE LATEST STANDARDS AND SPECIFICATIONS OF HOWARD COUNTY PLUS MSHA STANDARDS AND SPECIFICATIONS, IF APPLICABLE.
2. APPROXIMATE LOCATION OF EXISTING UTILITIES ARE SHOWN. THE CONTRACTOR SHALL TAKE ALL NECCESSARY 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. EXISTING UTILITIES ARE SHOWN BASED ON THE BEST AVAILABLE INFORMATION.
3. THE CONTRACTOR SHALL TEST PIT EXISTING UTILITIES AT LEAST (5) DAYS BEFORE STARTING WORK SHOWN ON THESE DRAWINGS.
4. THE CONTRACTOR SHALL NOTIFY THE DEPARTMENT OF PUBLIC WORKS/BUREAU OF ENGINEERING/CONSTRUCTION INSPECTION DIVISION AT (410) 313-1880 AT LEAST FIVE (5) WORKING DAYS PRIOR TO THE START OF WORK.
5. THE CONTRACTOR SHALL NOTIFY "MISS UTILITY" AT 1-800-257-7777 AT LEAST 48 HOURS PRIOR TO ANY EXCAVATION WORK.

BELL TELEPHONE SYSTEM	393-3649
LONG DISTANCE CABLE DIVISION	393-3553 OR 3554
BALTIMORE GAS AND ELECTRIC CO.	539-8000
HOWARD COUNTY BUREAU OF UTILITIES	313-4900
COLONIAL PIPELINE	795-1390

6. 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.
5. ALL INLETS SHALL BE CONSTRUCTED IN ACCORDANCE WITH HOWARD COUNTY STANDARDS.
6. ALL STREET CURB RETURNS SHALL HAVE 25' RADII UNLESS OTHERWISE NOTED.
7. STORM DRAIN TRENCHES WITHIN ROAD RIGHT OF WAY SHALL BE BACKFILLED AND COMPACTED IN ACCORDANCE WITH THE HOWARD COUNTY DESIGN MANUAL, VOLUME IV, i.e., STANDARD SPECIFICATIONS AND DETAILS FOR CONSTRUCTION, LATEST AMENDMENTS.
9. PIPE SHALL NOT BE INSTALLED BY THE CONTRACTOR UNTIL THE LENGTH CALLED FOR AT EACH STATION HAS BEEN APPROVED BY THE ENGINEER IN THE FIELD.
10. DESIGNED TRAFFIC SPEED IN ACCORDANCE WITH THE AMERICAN ASSOCIATION OF STATE HIGHWAY OFFICIAL STANDARD:
    ALL 50' RIGHT OF WAYS 25 M.P.H.
11. ALL ELEVATIONS SHOWN ARE BASED ON THE U.S.C. AND G.S. MEAN SEA LEVEL DATUM, 1929.
12. ALL FILL AREAS WITHIN ROADWAY AND UNDER STRUCTURES TO BE COMPACTED TO A MINIMUM OF 95% COMPACTION OF AASHTO T 180.
13. ALL PIPE ELEVATIONS SHOWN ARE INVERT ELEVATIONS.
14. PROFILES STATIONS SHALL BE ADJUSTED AS NECESSARY TO CONFORM TO PLAN DIMENSIONS.
15. SUBJECT PROPERTY ZONED R-20 PER 10-18-93 COMPREHENSIVE ZONING PLAN.
16. NO PIPE SHALL BE LAID UNTIL LINES OF EXCAVATION HAVE BEEN BROUGHT WITHIN 6" OF FINISHED GRADE.
17. ALL STORM DRAIN PIPE BEDDING SHALL BE CLASS 'C' AS SHOWN IN FIG. 11.4, VOLUME 1 OF HOWARD COUNTY DESIGN MANUAL UNLESS OTHERWISE NOTED.
18. SEE DEPARTMENT OF PLANNING AND ZONING FILE NO'S. F-90-101, S-91-10, WP-91-35, WP-93-54
19. LIGHT POLES, ARMS AND FIXTURES FOR STREET LIGHTS SHALL BE IN ACCORDANCE WITH HOWARD COUNTY DESIGN MANUAL, VOLUME III AND GUIDELINES FOR STREET LIGHTS IN RESIDENTIAL DEVELOPMENTS, JUNE 1993.
20. TOPOGRAPHY SHOWN HEREON IS BASED ON LAND SERVICES GROUP, INC. FIELD RUN TOPOGRAPHY DATED MAY, 1990.
21. PROPOSED LOTS TO BE SERVED BY PUBLIC WATER & SEWER UNDER CONTRACT NO. 24-3381. DRAINAGE AREA: LITTLE PATUXENT.
22. FEE-IN-LIEU OF STORMWATER MANAGEMENT WAS GRANTED ON 5-1-94.
23. WP-91-35 - A WAIVER OF SECTIONS 16.113(F)(7) AND 16.115(C)(4) TO ALLOW DIRECT DRIVEWAY ACCESS ONTO VOLLMERHAUSEN ROAD WAS APPROVED 11-1-90.
24. WP-93-54 - A WAIVER OF SECTIONS 16.113(F)(7) AND 16.115(C)(4) TO ALLOW DIRECT ACCESS ONTO A MAJOR COLLECTOR ROAD FOR 5 LOTS SHARING A USE-IN-COMMON PRIVATE ROAD AND SECTION 16.115(B)(5) TO ALLOW A PRIVATE ROAD TO EXCEED 800 FEET IN LENGTH TO APPROXIMATELY 700 FEET WAS APPROVED 12-31-92.
25. WETLANDS ARE NOT FOUND ON-SITE PER THE NATIONAL WETLANDS INVENTORY MAPS.
26. GEOTECHNICAL REPORT PERFORMED BY EARTH LABORATORIES, INC. JANUARY, 1993.



VICINITY MAP

SCALE: 1"=2000'

BENCH MARKS

BM#1
HO. CO. MON. # 2042003 ELEV. 291.824 N 477861.746, E 849210.276
0.2 MILES SOUTH OF VOLLMERHAUSEN RD. EAST EDGE CONC. WALK

BM#2
HO. CO. MON. # 2042004 ELEV. 288.845 N 478806.576, E 848960.018
INT. SAVAGE-GUILFORD RD & VOLLMERHAUSEN RD.

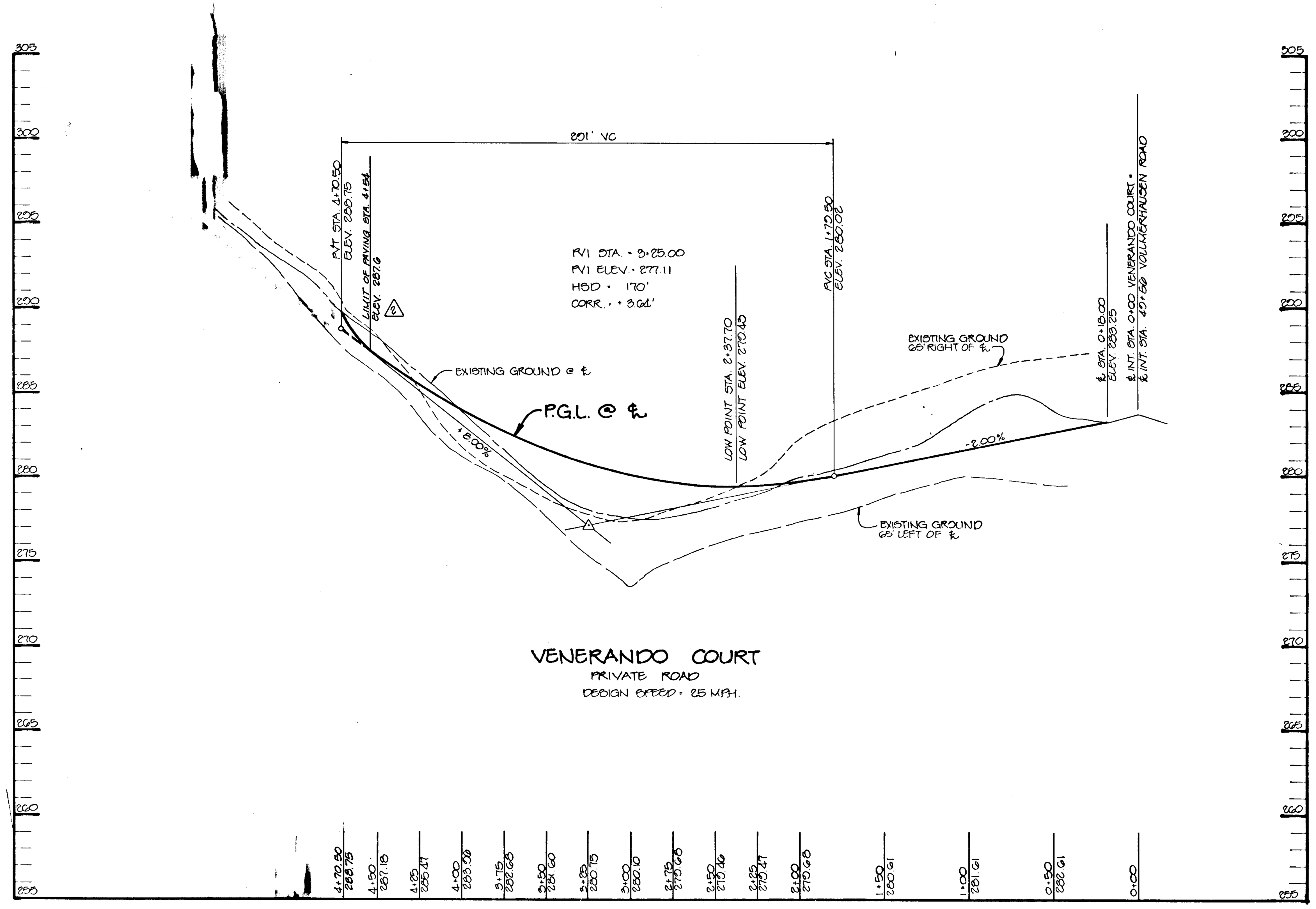
AS-BUILT CERTIFICATION

CHRISTOPHER J. REID #19949 1-22-99 DATE

OPERATION AND MAINTENANCE SCHEDULE OF HOME OWNERS ASSOCIATION OWNED AND MAINTAINED STORMWATER MANAGEMENT FACILITY EXTENDED DETENTION POND

HOME OWNERS ASSOCIATION'S MAINTENANCE RESPONSIBILITIES:

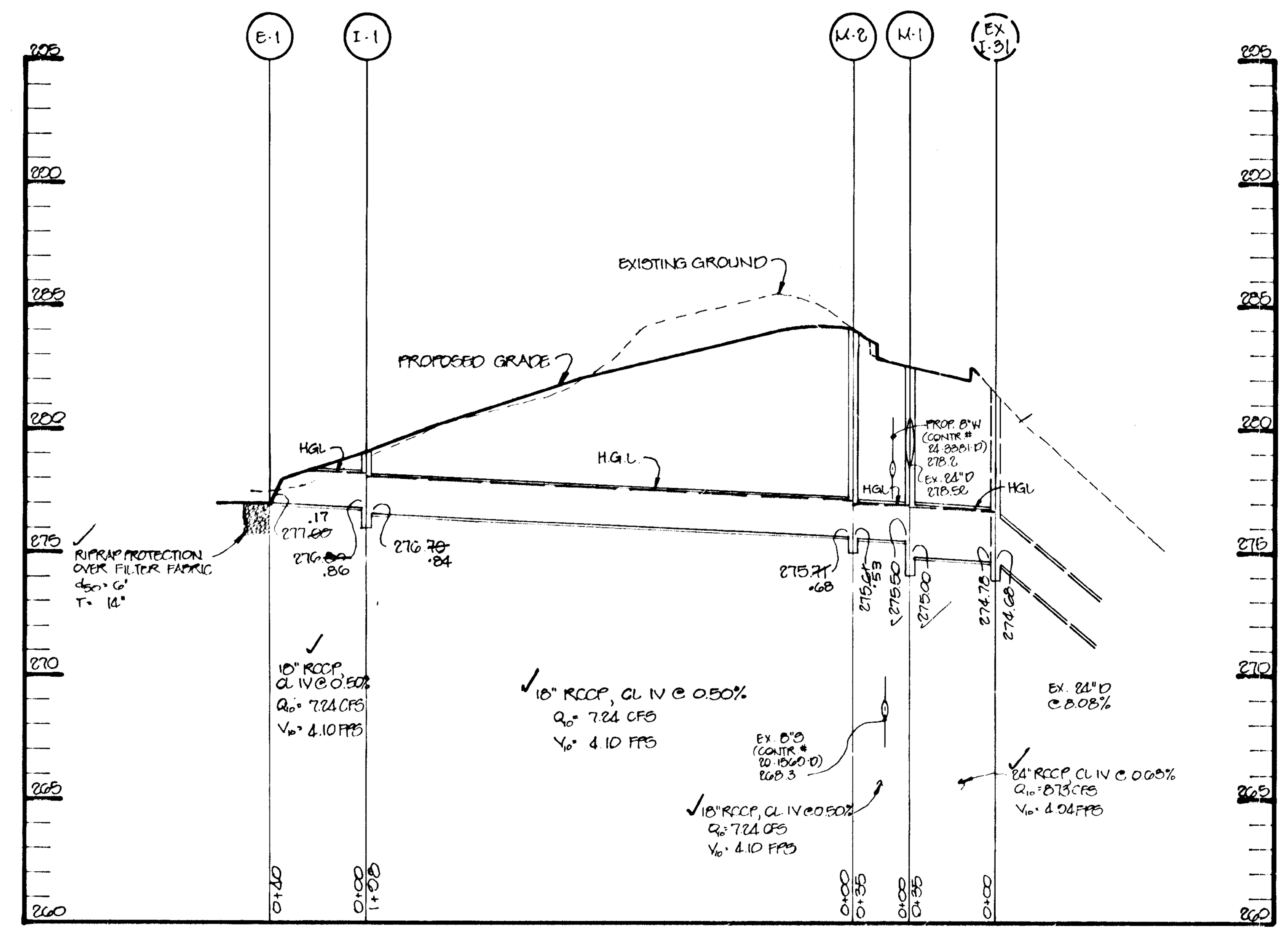
1. Top and side slopes of the embankment shall be mowed a minimum of two (2) times a year, once in June and once in September. Other side slopes, the bottom of the pond, and maintenance access should be mowed as needed.
2. Debris and litter next to the outlet structure shall be removed during regular mowing operations and as needed.
3. When deemed necessary for aesthetic reasons, sediment should be removed from the pond. Approval of the Department of Public Works is required.



VENERANDO COURT
PRIVATE ROAD
DESIGN SPEED = 25 MPH.

PROFILE

SCALE: HOR.: 1"=50' VERT.: 1"=5'



STORM DRAIN PROFILE

SCALE: HOR.: 1"=50' VERT.: 1"=5'

APPROVED : HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING.

CHIEF, DIVISION OF LAND DEVELOPMENT AND RESEARCH	1/27/95 DATE

APPROVED : HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS.

CHIEF, LAND DEVELOPMENT DIVISION	1/24/95 DATE
CHIEF, BUREAU OF HIGHWAYS	1/19/95 DATE
CHIEF, BUREAU OF ENGINEERING	1/24/95 DATE

DATE	NO	REVISION
8-8-96	2	RELOCATED TEE TURNAROUND, REMOVED BARRICADE, REV. PROFILE
4-18-95	1	REV. LOT LINE BETWEEN LOTS 7 & 8 MADE ESM'T 36' WIDE

OWNER/DEVELOPER
ALFIO NICOTRA
3070 SAVAGE - GUILFORD ROAD
JESSUP, MARYLAND 20794

PROJECT: PROPERTY OF **ALFIO NICOTRA** LOTS 7-12

AREA: TAX MAP NO. 47 PARCEL 18
6TH ELECTION DISTRICT
HOWARD COUNTY, MARYLAND

TITLE: PLAN AND PROFILE OF VENERANDO COURT AND STORM DRAIN PROFILE

RIEMER MUEGGE & ASSOCIATES, INC.
Planners · Engineers · Surveyors
8818 Centre Park Drive · Suite 200 · Columbia, Maryland 21045
410-997-8900 FAX : 410-997-9282

12-2-94
DATE

JAYKANT D. PAREKH #15148

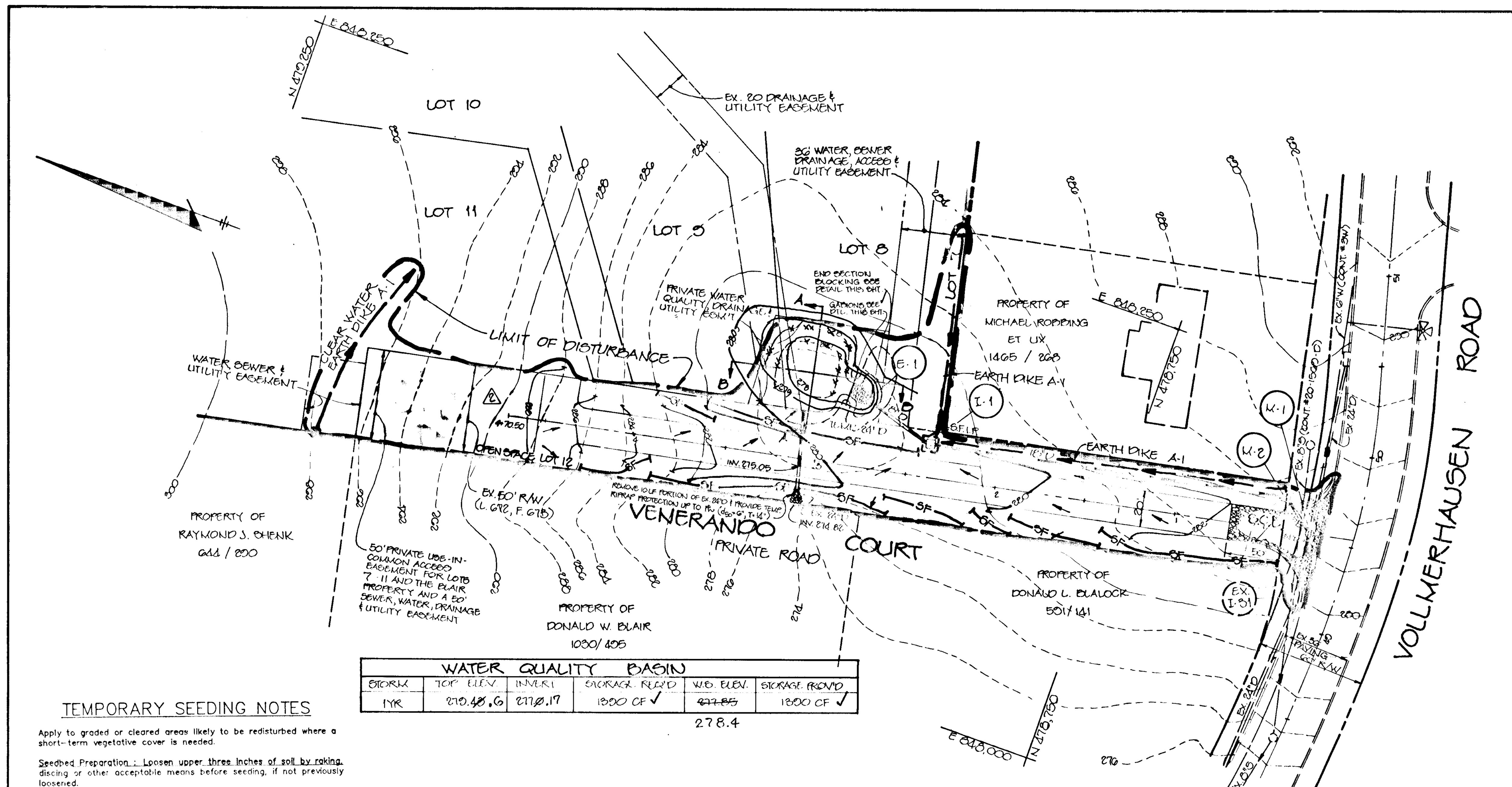
DESIGNED BY:	CJR
DRAWN BY:	MAD
PROJECT NO:	103200
DATE:	DECEMBER 2, 1994
SCALE:	AS SHOWN
DRAWING NO.	1 OF 2

AS-BUILT 1-22-99

F-93-130

1724

MARYLAND BLUEPRINT CO., INC. N37930



WATER QUALITY BASIN

STORM	TOP ELEV.	INVERT	STORAGE REQ'D	W.Q. ELEV.	STORAGE PROV'D
1YR	279.48.6	277.0.17	1500 CF ✓	~~277.85~~	1500 CF ✓
				278.4	

PLAN

SCALE: 1" = 50'

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. per 1000 sq.ft.).

Seeding : For periods March 1 thru April 30 and from August 15 thru November 15, seed with 2-1/2 bushels per acre of annual rye (3.2 lbs. per 1000 sq.ft.). For the period May 1 thru August 14, seed with 3 lbs. per acre of weeping lovegrass (0.07 lbs. per 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. per 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. per 1000 sq.ft.) of emulsified asphalt on flat areas. On slopes, 8 ft. or higher, use 347 gal. per acre (8 gal. per 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.

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. per 1000 sq.ft.) and 600 lbs. per acre 10-10-10 fertilizer (14 lbs. per 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. per 1000 sq.ft.).

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

Seeding : For the period March 1 thru April 30 and from August 1 thru October 15, seed with 60 lbs. per acre (1.4 lbs. per 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 (0.05 lbs. per 1000 sq.ft.) of weeping lovegrass. During the period October 16 thru February 28, protect site by one of the following options :

1) 2 tons per acre of well-anchored mulch straw and seed as soon as possible in the spring.

2) Use sod.

3) Seed with 60 lbs. per acre Kentucky 31 Tall Fescue and mulch with 2 tons per acre well anchored straw.

Mulching : Apply 1-1/2 to 2 tons per acre (70 to 90 lbs. per 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. per 1000 sq.ft.) of emulsified asphalt on flat areas. On slopes, 8 ft. or higher, use 347 gal. per acre (8 gal. per 1000 sq.ft.) for anchoring.

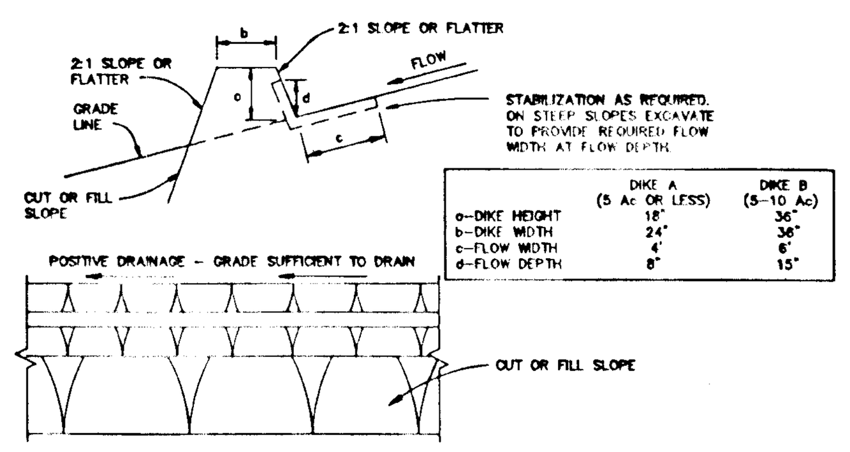
Maintenance : Inspect all seeded areas and make needed repairs, replacements and reseedings.

SEDIMENT CONTROL NOTES

1. A minimum of 48 hours notice must be given to the Howard County Dept. of Inspections and Permits 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 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL AND EROSION CONTROL, AND REVISIONS THERETO.
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 fenced and warning signs posted around the 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 1991 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	6.91	acres
Area Disturbed	0.76	acres
Area to be roofed or paved	0.26	acres
Area to be vegetatively stabilized	0.50	acres
Total Cut	500	cu.yds.
Total Fill	500	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 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 from 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.
13. On all sites with disturbed areas in excess of 2 ac., 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.
14. Trenches for the construction of utilities is limited to three pipe lengths or that which can be back-filled and stabilized within one working day, whichever is shorter.



	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.

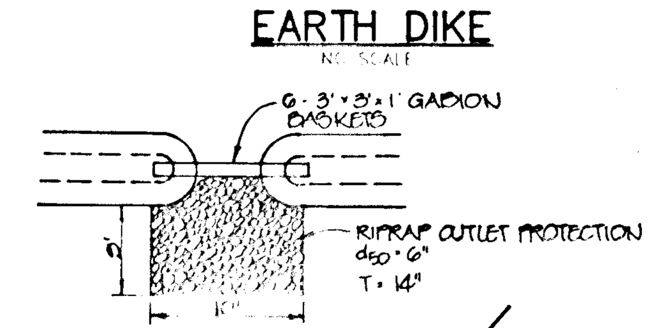
B. RIPRAP TO BE 4–8 INCHES IN A LAYER AT LEAST 8 INCHES THICKNESS AND PRESSED INTO THE SOIL.

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

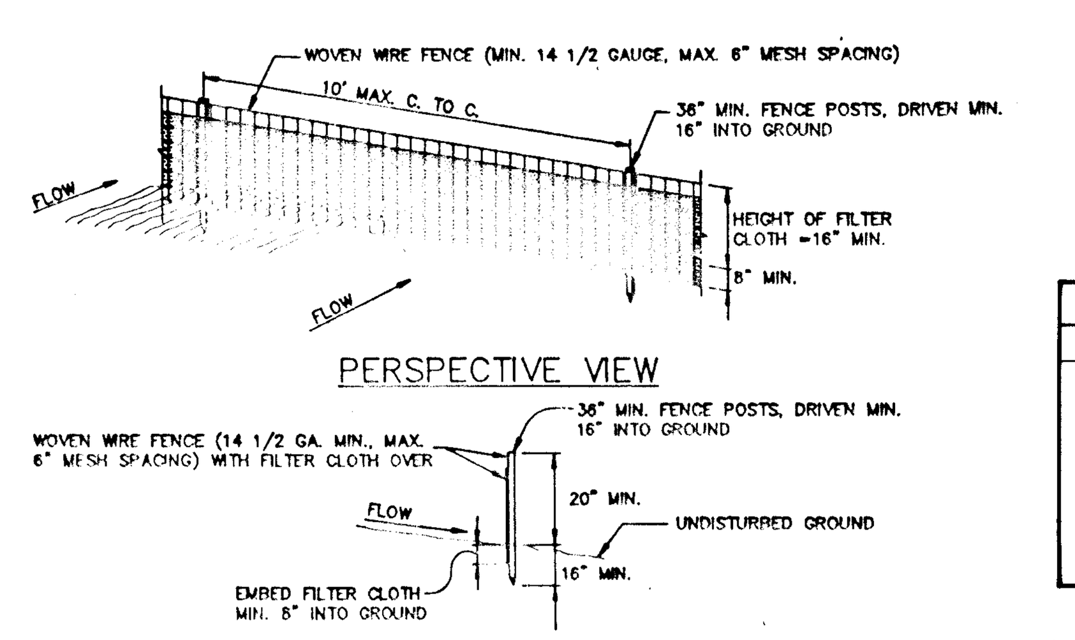
NO SCALE



FOREBAY OUTFALL ✓

NO SCALE

STRUCTURE SCHEDULE						
NO.	TYPE	LOCATION	INV. IN	INV. OUT	TOP ELEV.	REMARKS
I-1	'S' INLET	℄ STA. 2+38 18' RT.	~~276.80~~ .86	~~276.70~~ .84	279.0 ✓	HO. CO. STD. DETAIL SD 4.22
M-2	4'-0" DIA. MANHOLE	℄ STA. 0+40 18' RT.	~~276.71~~ .68	~~275.61~~ .53	~~284.0~~ 286.63	HO. CO. STD. DETAIL G 5.11
M-1	4'-0" DIA. MANHOLE	℄ STA. 0+24	275.50	275.00	283.~~18~~.09	HO. CO. STD. DETAIL G 5.11
E-1	18" CONC. END SECTION	℄ STA. 2+75 37' RT.	277.~~00~~ .17	—	—	HO. CO. STD. DETAIL SD 5.51



SECTION

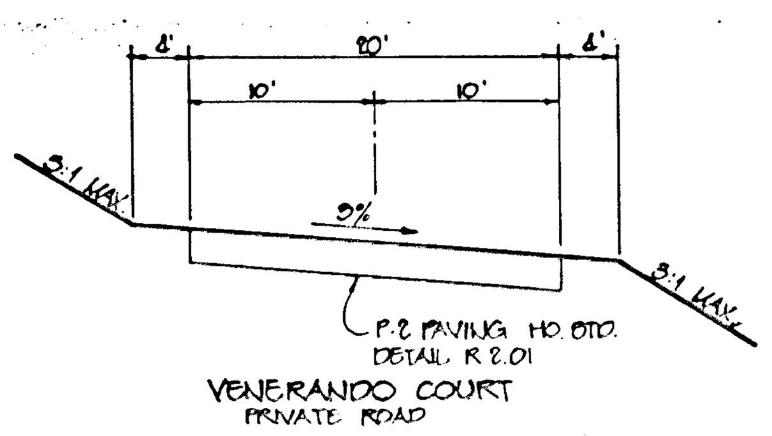
CONSTRUCTION NOTES FOR FABRICATED SILT FENCE

1. WOVEN WIRE FENCE TO BE FASTENED SECURELY TO FENCE POSTS WITH WIRE TIES AND STAPLES.
2. FILTER CLOTH TO BE FASTENED 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 (6") AND FOLDED.
4. MAINTENANCE SHALL BE PERFORMED AS NEEDED AND MATERIAL REMOVED WHEN "BULDES" 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.

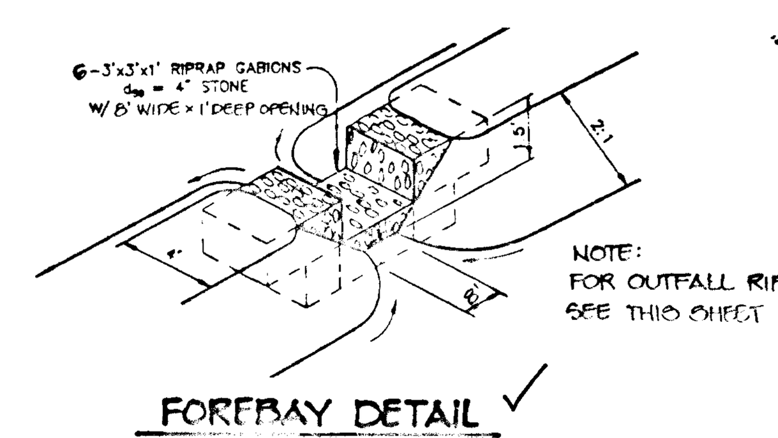
SILT FENCE DETAIL

NO SCALE



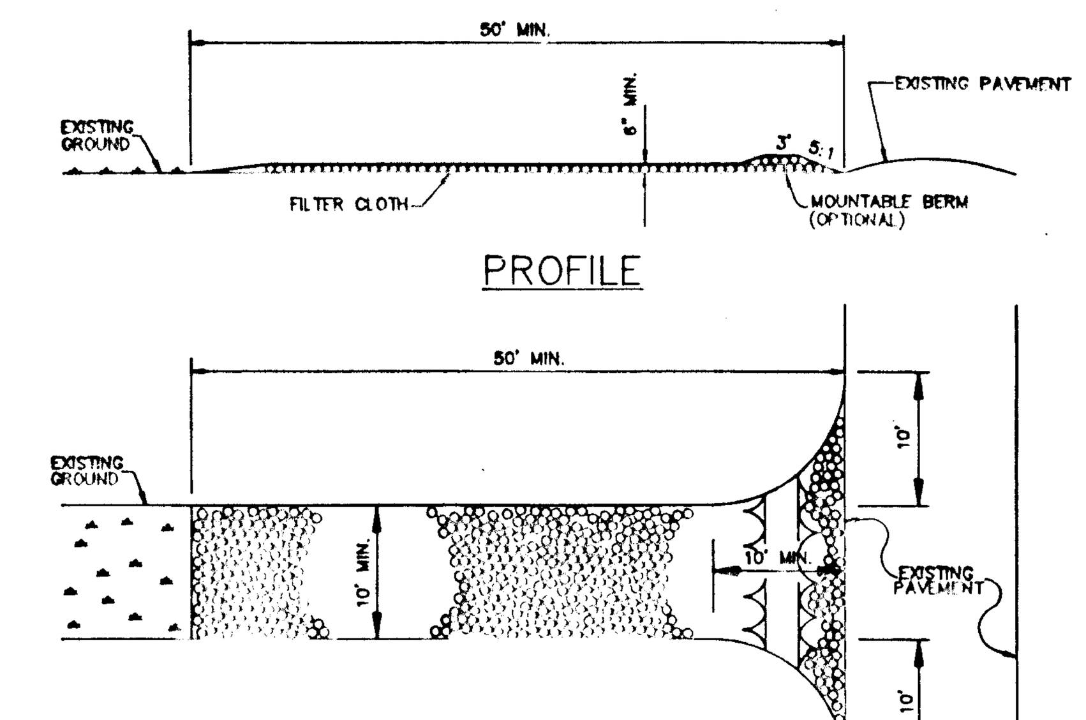
TYPICAL PAVING SECTION

NO SCALE



FOREBAY DETAIL ✓

NO SCALE



PLAN VIEW

CONSTRUCTION SPECIFICATIONS

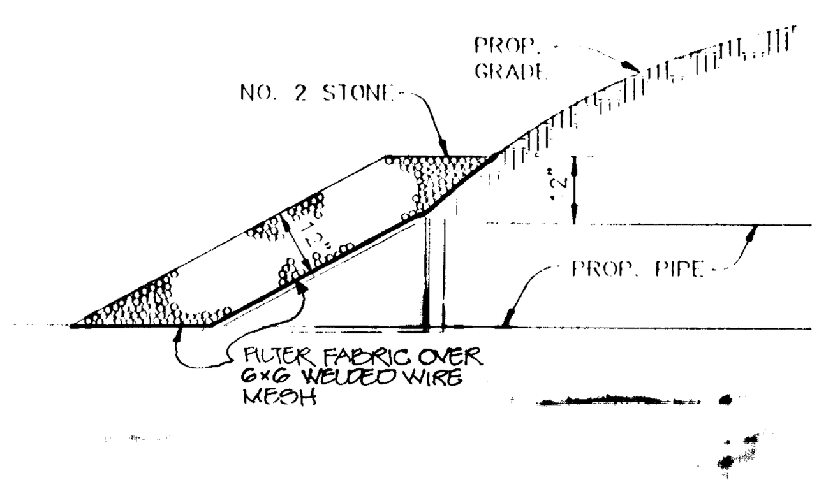
1. STONE SIZE – USE 2" STONE OR RECLAIMED OR RECYCLED CONCRETE EQUIVALENT.
2. LENGTH – AS REQUIRED, BUT NOT LESS THAN 50 FEET (EXCEPT ON A SINGLE RESIDENCE LOT WHERE A 30 FOOT MINIMUM WOULD APPLY).
3. THICKNESS – NOT LESS THAN SIX (6) INCHES.
4. WIDTH – TEN (10) FOOT MINIMUM, BUT NOT LESS THAN THE FULL 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 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 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

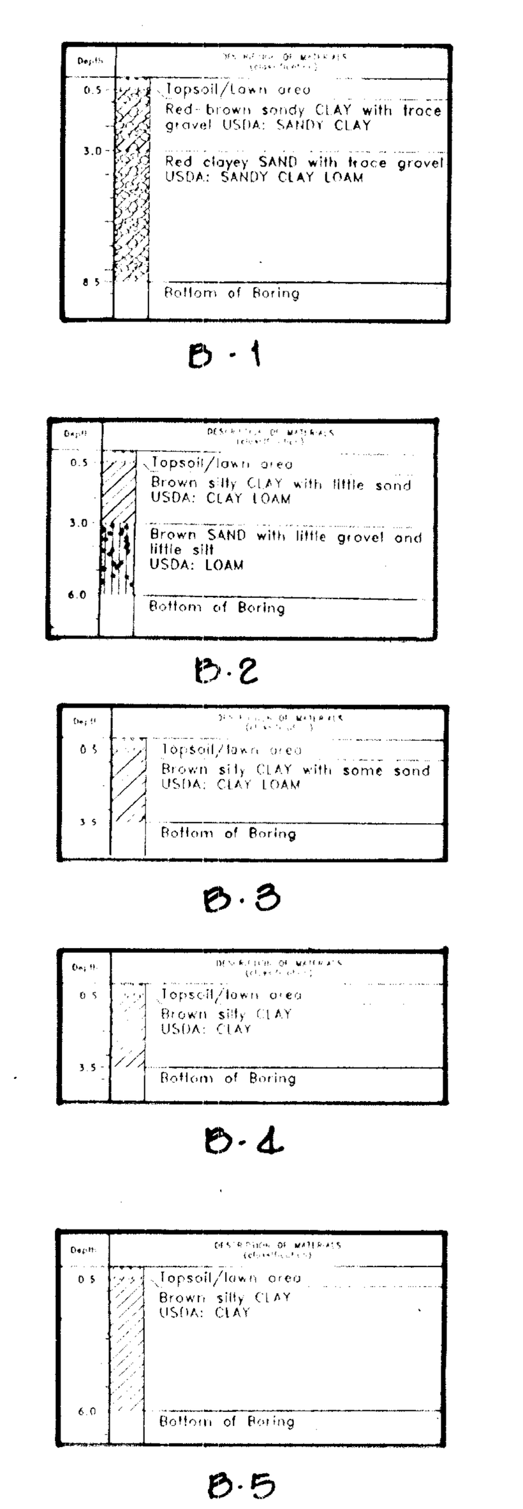
Sequence of Construction

1. Obtain a grading permit.
2. Install SCE, silt fence, earth dike and extend existing 24" pipe to limit of grading to convey clear water through work zone. Do not perform grading for water quality facility. (3 days)
3. Begin rough-grading for driveway and install storm drain from E-1 to Ex. I-31. Provide blocking at E-1 per detail. Remove Ex. 24" pipe and provide inlet protection at I-1.
4. When subgrade elevations are achieved, install water & sewer. Grade for water quality facility installing gabion wall and riprap.
5. Perform curb and gutter at entrance, paving, and stabilize remaining disturbed areas in accordance with the permanent seeding notes. (2 weeks)
6. Upon permission of the Howard County Department of Public Works sediment control inspection, remove all remaining sediment control devices and stabilize in accordance with the permanent seeding notes.



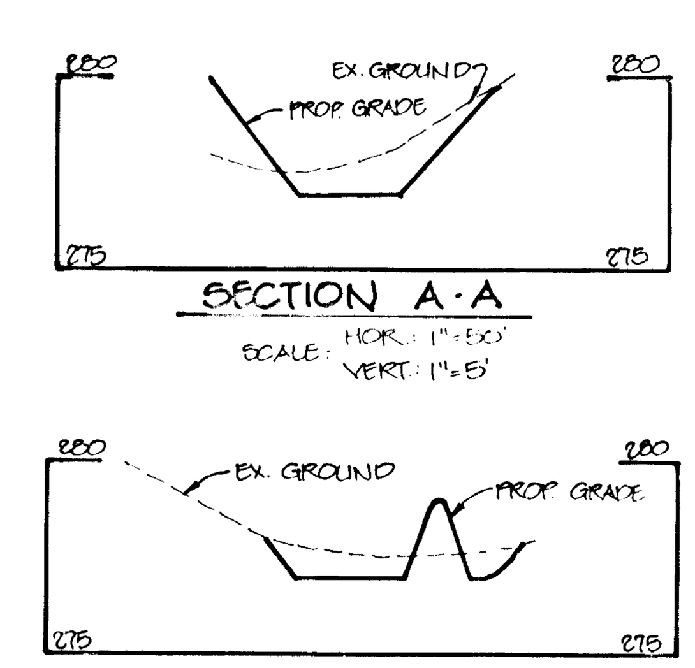
END SECTION BLOCKING DETAIL FOR E-1

NO SCALE



BORING LOGS

NO SCALE

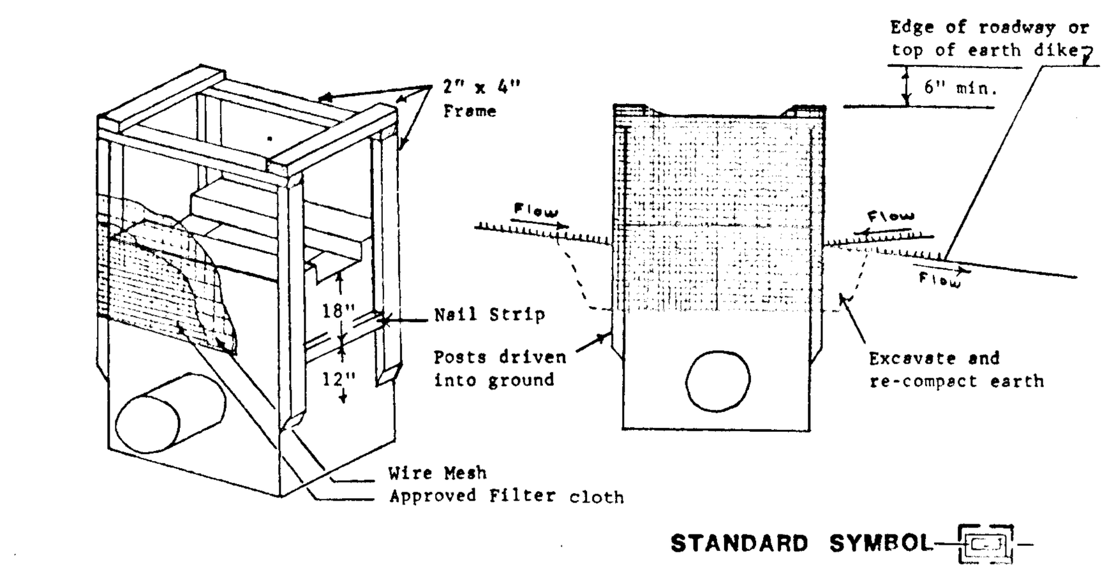


SECTION A-A

SCALE: HOR. 1"=50' VERT. 1"=5'

SECTION B-B

SCALE: HOR. 1"=50' VERT. 1"=5'



STANDARD SYMBOL

Construction Specifications

I. Materials

1. Wooden frame is to be constructed of 2" x 4" construction grade lumber.
2. Wire mesh must be of sufficient strength to support filter fabric, and stone for curb inlets, with water fully impounded against it.
3. Filter cloth must be of a type approved for this purpose; resistant to sunlight with sieve size, EOS, 40-85, to allow sufficient passage of water and removal of sediment.
4. Stone is to be 2" in size and clean, since fines would clog the cloth.
5. The assembly shall be placed so that the end spacers are a minimum 1' beyond both ends of the throat opening.
6. Form 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 into inlet.

II. Procedure

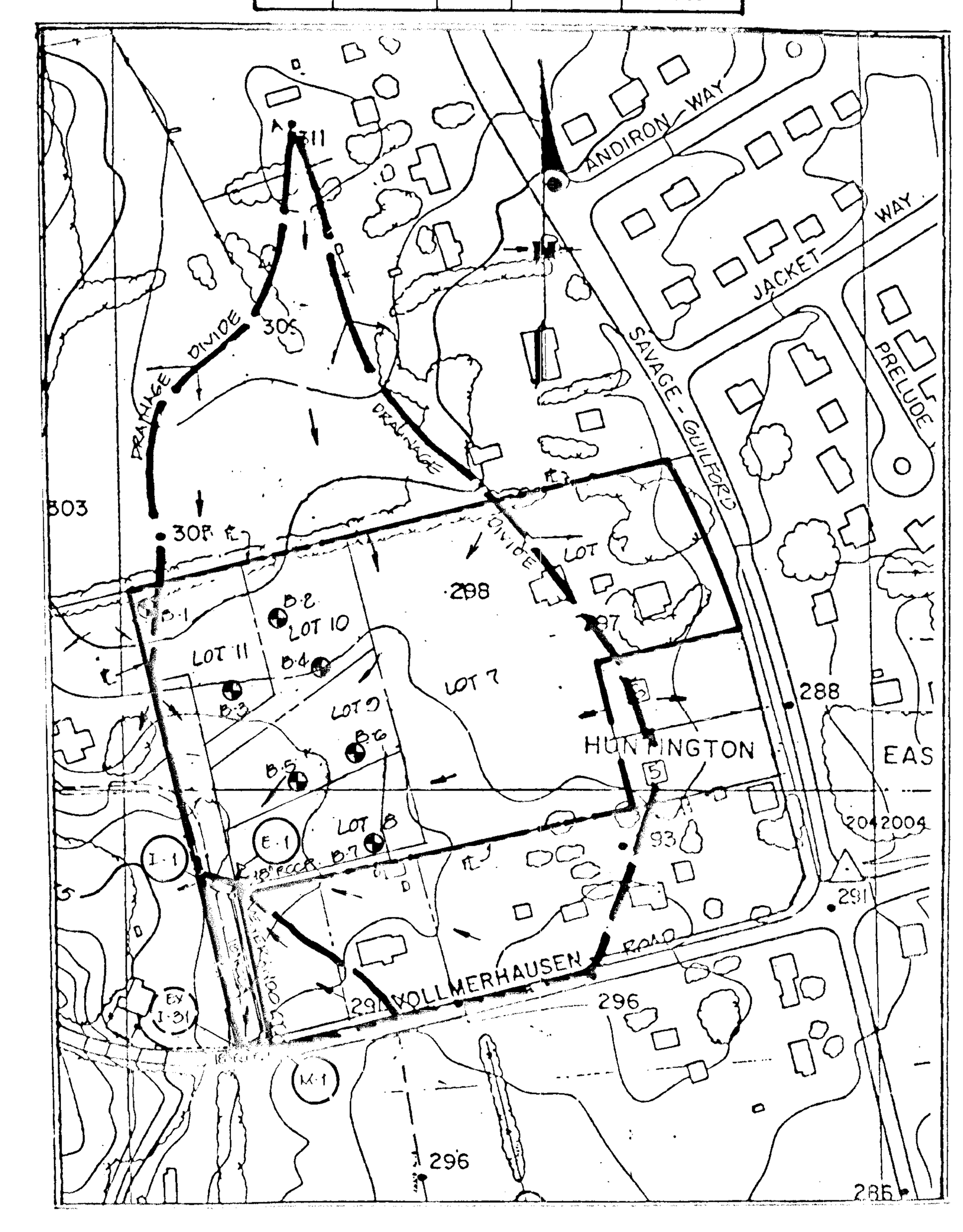
A. A swale, ditchline or yard inlet protection.

1. Excavate completely around inlet to a depth of 18" below notch elevation.
2. Drive 2 x 4 post 1' into ground at four corners of inlet. Place nail strips between posts on ends of inlet. Assemble top portion of 2 x 4 frame using overlap joint shown. Top of frame (weir) must be 6" below edge of roadway adjacent to inlet.
3. Stretch wire mesh tightly around frame and fasten securely. Ends must meet at post.
4. Stretch filter cloth tightly over wire mesh, the cloth must extend from top of frame to 18" below inlet notch elev. Fasten securely to frame. Ends must meet at post, be overlapped and folded, then fastened down.
5. Backfill around inlet in compacted 6" layers until layer of earth is even with notch elevation on ends and top elevation on sides.
6. If the inlet is not in a low point, construct a compacted earth dike in the ditchline below it. The top of this dike is to be at least 6" higher than the top of frame (weir).
7. This structure must be inspected frequently and the filter fabric replaced when clogged.

STONE FILTER INLET PROTECTION

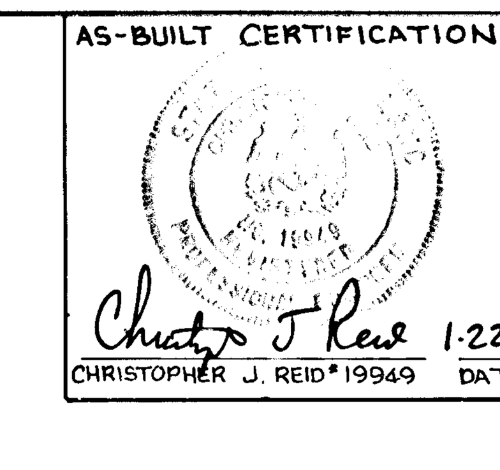
NO SCALE

DRAINAGE DATA				
NO.	AREA	'C'	% IMP	ZONING
E-1	10.0 Ac.	0.41	1	R-20
I-1	0.70 Ac.	0.41	16	R-20



DRAINAGE AREA MAP

SCALE: 1"=200'



AS-BUILT CERTIFICATION

CHRISTOPHER J. REID #19949 1.22.99
DATE

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 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 INSPECTIONS BY THE HOWARD SOIL CONSERVATION DISTRICT.

DEVELOPER 12/2/94 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 12.2.94 DATE

THESE PLANS HAVE BEEN REVIEWED FOR THE HOWARD SOIL CONSERVATION DISTRICT AND MEET THE TECHNICAL REQUIREMENTS FOR SOIL EROSION AND SEDIMENT CONTROL.

Patricia Engler /GS.
U.S. SOIL CONSERVATION SERVICE 1/11/95 DATE

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

HOWARD SOIL CONSERVATION DISTRICT 1/11/95 DATE

APPROVED : HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING.

CHIEF, DIVISION OF LAND DEVELOPMENT AND RESEARCH 1/27/95 DATE

APPROVED : HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS.

CHIEF, LAND DEVELOPMENT DIVISION 1/24/95 DATE

Howard S. Shirk for
CHIEF, BUREAU OF HIGHWAYS 1/19/95 DATE

CHIEF, BUREAU OF ENGINEERING 1/24/95 DATE

DATE	NO.	REVISION
8-8-96	2	RELOCATED TEE TURNAROUND REV. GRADING
4-18-95	1	REV. LOT LINE BETWEEN LOTS 7 & 8 MADE ESM'T 36' WIDE

OWNER/DEVELOPER

ALFIO NICOTRA
3070 SAVAGE-GUILFORD ROAD
JESSUP, MARYLAND 20794

PROJECT: PROPERTY OF **ALFIO NICOTRA** LOTS 7-12

AREA: TAX MAP NO. 47 PARCEL 16
6TH ELECTION DISTRICT
HOWARD COUNTY, MARYLAND

TITLE: GRADING & SEDIMENT CONTROL PLAN, DRAINAGE AREA MAP & DETAIL SHEET

RIEMER MUEGGE & ASSOCIATES, INC.
Planners · Engineers · Surveyors
8818 Centre Park Drive · Suite 200 · Columbia, Maryland 21045
410-997-8900 FAX : 410-997-9282

12.2.94
DATE

J. Parekh
JAYKANT D. PAREKH #10148

DESIGNED BY:	CJR
DRAWN BY:	MAD
PROJECT NO:	103800
DATE:	DECEMBER 2, 1994
SCALE:	AS SHOWN
DRAWING NO.	2 OF 2

AS-BUILT 1·22·99

F-95-189

1724