

SHEET INDEX

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LITTLE PATUXENT RIDGE SECTION 3 ROADWAYS AND STORM DRAINS

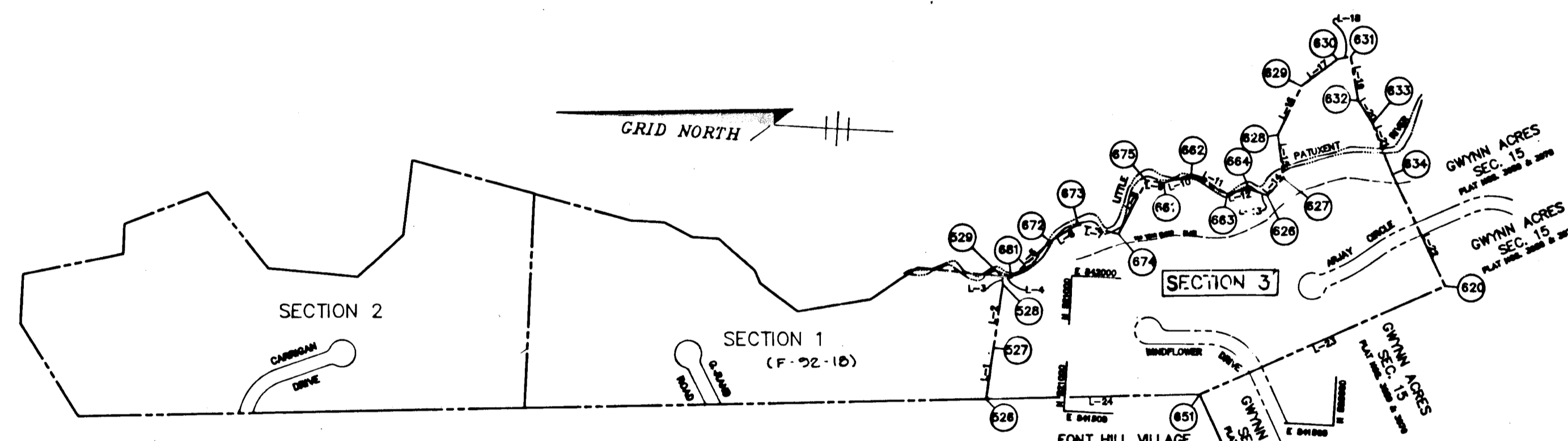
LOTS 25 - 52 2nd ELECTION DISTRICT HOWARD COUNTY, MARYLAND

GENERAL NOTES

1. ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE LATEST STANDARDS AND SPECIFICATIONS OF HOWARD COUNTY PUBLIC WORKS DEPARTMENT AND SPECIFICATIONS, IF APPLICABLE.
2. APPROPRIATE LOCATION OF EXISTING UTILITIES ARE SHOWN. 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. EXISTING UTILITIES ARE SHOWN BASED ON THE BEST AVAILABLE INFORMATION.
3. THE CONTRACTOR SHALL TEST FIT EXISTING UTILITIES AT LEAST (5) DAYS BEFORE STARTING WORK TOOLS ON THESE DRAINAGES.
4. THE CONTRACTOR SHALL NOTIFY THE DEPARTMENT OF PUBLIC WORKS/CONSTRUCTION INSPECTION DIVISION AT (410) 313-1880 AT LEAST FIVE (5) WORKING DAYS PRIOR TO THE START OF WORK.
5. THE CONTRACTOR SHALL NOTIFY "888 UTILITY" AT 1-800-287-7777 AT LEAST 48 HOURS PRIOR TO ANY EXCAVATION WORK.

BELL TELEPHONE SYSTEM	303-3648
LONG DISTANCE CABLE DIVISION	303-3653 OR 3084
BALTIMORE GAS AND ELECTRIC CO.	838-8000
HOWARD COUNTY BUREAU OF UTILITIES	313-4800
ORONAL PIPELINE	788-1390
6. TRAFFIC CONTROL DEVICES, MARKINGS, AND SIGNALS 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.
7. ALL LOCAL STREET BULETS SHALL BE CONSTRUCTED IN ACCORDANCE WITH HOWARD COUNTY STANDARDS & SPECIFICATIONS.
8. ALL STREET CURB RETURNS SHALL HAVE 2" RADIUS UNLESS OTHERWISE NOTED.
9. STORM DRAIN TRENCHES WITHIN ROAD RIGHT OF WAY SHALL BE BACKFILLED AND COMPACTED IN ACCORDANCE WITH THE HOWARD COUNTY DESIGN MANUAL, VOLUME IV, L.A. STANDARD SPECIFICATIONS AND DETAILS FOR CONSTRUCTION, LATEST APPROPRIATE EDITION.
10. 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.
11. DESIGNED TRAFFIC SPEED IN ACCORDANCE WITH THE AMERICAN ASSOCIATION OF STATE HIGHWAY OFFICIAL STANDARDS:

WINDFLOWER DRIVE	30 M.P.H.
ARJAY CIRCLE	30 M.P.H.
12. ALL ELEVATIONS SHOWN ARE BASED ON THE U.S.C. AND G.S. MEAN SEA LEVEL DATUM, 1929.
13. ALL FILL AREAS WITHIN ROADWAY AND UNDER STRUCTURES TO BE COMPACTED TO A MINIMUM OF 95% COMPACTION OF AIRDRIED 1 1/2".
14. ALL PIPE ELEVATIONS SHOWN ARE INVERT ELEVATIONS.
15. PROFILES STATIONS SHALL BE ADJUSTED AS NECESSARY TO CONFORM TO PLAN DIMENSIONS.
16. SUBJECT PROPERTY ZONED R-20 PER 10/14/93 COMPREHENSIVE ZONING PLAN.
17. NO PIPE SHALL BE LAP UNTIL LINES OF EXCAVATION HAVE BEEN BROUGHT WITHIN 4" OF FINISHED GRADE.
18. ALL STORM DRAIN PIPE RECORDS SHALL BE CLASS "C" AS SHOWN IN FIG. 11-4, VOLUME 1 OF HOWARD COUNTY DESIGN MANUAL UNLESS OTHERWISE NOTED.
19. LIGHT POLES, ARMS AND FIXTURES FOR STREET LIGHTS SHALL BE IN ACCORDANCE WITH HOWARD COUNTY DESIGN MANUAL, VOLUME II AND GUIDELINES FOR STREET LIGHTS IN URBAN DEVELOPMENTS, JUNE 1983.
20. EX. TOPOGRAPHY SHOWN HEREON WAS PERFORMED BY T&T SURVEYING, INC. AND REMER MUEGGE & ASSOCIATES, INC. ON JANUARY 1988 AND JANUARY 1988, RESPECTIVELY.
21. PUBLIC WATER AND SEWER SYSTEMS AS PER CONTRACT NO. 2707-D ARE TO BE UTILIZED FOR THIS SITE. SEWER SERVICE DRAINAGE AREA: LITTLE PATUXENT.
22. ALL STREET LIGHTS SHALL BE LOCATED BETWEEN 2'-0" AND 4'-0" BEHIND FACE OF CURB.
23. STREET LIGHT PLACEMENT AND TYPE OF FIXTURE AND POLE SELECTED SHALL BE IN ACCORDANCE WITH THE HOWARD COUNTY DESIGN MANUAL, VOL. II (1983) AND AS MODIFIED BY THE "GUIDELINES FOR STREET LIGHTS IN RESIDENTIAL DEVELOPMENTS (JUNE 1983)" WHICH INCLUDES GUIDELINES FOR LAYOUT AND LONG-TERM PLACEMENT. STREET TREES TO BE PLACED BY FROM STREET LIGHTS.
24. CONTRACTOR IS SOLELY RESPONSIBLE FOR CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCE, PROGRESSIVE, AND SAFETY PRECAUTIONS AND PROGRAMS.
25. THE PAVEMENT DETAILS SHOWN ON THESE PLANS REFLECT THE HOWARD COUNTY MINIMUM STANDARD PAVEMENT SECTIONS AND ARE NOT BASED ON SITE SPECIFIC CONDITIONS. PRIOR TO PAVING, THE FINAL PAVEMENT SECTIONS SHALL BE DETERMINED BY A QUALIFIED GEOTECHNICAL ENGINEER BASED ON IN-SITU TESTING OF THE FINISHED SUBGRADE. ANY PAVEMENT SECTION DETERMINED BY THE GEOTECHNICAL ENGINEER THAT IS LESS THAN THE HOWARD COUNTY MINIMUM STANDARD SHALL FIRST BE APPROVED BY THE HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS. THE TESTING AND GEOTECHNICAL ENGINEER SHALL BE FURNISHED BY THE OWNER.
26. CONTRACTOR SHALL PROVIDE A 20' TRANSITION WHEN CONNECTING MODIFIED CURB & GUTTER TO STANDARD CURB & GUTTER. SEE STANDARD DETAIL R-3.02.
27. CONTRACTOR SHALL REMOVE EXISTING CURB AND GUTTER TO NEAREST JOINT.
28. LIMIT OF WETLANDS INDICATED WAS DETERMINED BY ENVIRONMENTAL SYSTEMS ANALYSIS, INC. DATED MARCH 1990, AND APPROVED BY HOWARD COUNTY (11/82).
29. STORM WATER MANAGEMENT FOR THIS SITE IS PROVIDED UNDER F-82-18.
30. REFERENCE S-88-48, HP-81-51 REQUEST TO WAIVE SECTION 16.12B.1 THAT REQUIRES SIDEWALK CONSTRUCTION ALONG ONE SIDE OF PROPOSED LOCAL ROADS, APPROVED BY DEPT. OF PLANNING & ZONING IN A LETTER DATED DECEMBER 17, 1990.
31. FLOODPLAIN WAS DETERMINED USING A STUDY PERFORMED BY CENTURY ENGINEERING, INC. FOR HOWARD COUNTY, AND APPROVED UNDER P-90-34.
32. EXISTING UTILITIES WERE FIELD LOCATED BY REMER MUEGGE & ASSOCIATES, INC. JANUARY 1988.
33. GEOTECHNICAL REPORT COMPILED BY FROEHLING & ROBERTSON, INC. ON MAY 2, 1990 AND APPROVED BY HOWARD COUNTY OCTOBER 1991.



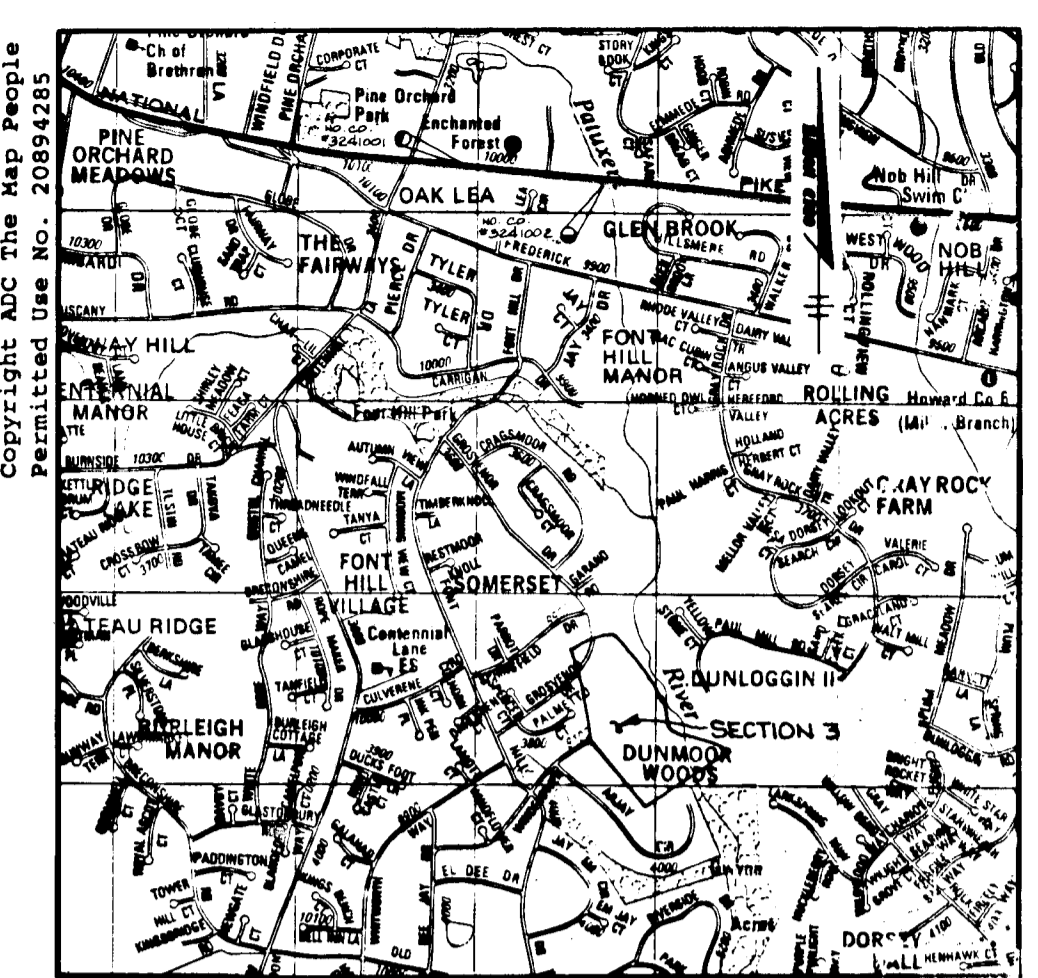
PLAN
SCALE: 1" = 400'

LINE	BEARING	DISTANCE
1	S 85°31'17" E	189.64
2	N 84°50'38" W	241.92
3	S 80°50'33" W	25.19
4	S 02°39'08" W	32.87
5	S 46°30'09" W	198.00
6	S 34°30'51" E	20.45
7	S 08°58'05" W	155.10
8	S 88°20'04" E	224.40
9	S 04°29'08" W	86.00
10	N 20°50'51" E	103.85
11	N 42°29'07" E	151.80
12	S 16°00'52" E	82.50
13	S 18°50'09" W	74.25
14	N 78°29'08" E	89.10
15	N 84°50'38" W	160.88
16	S 67°30'53" E	199.00
17	S 39°30'52" E	165.00
18	S 15°10'58" E	49.92
19	S 76°42'51" W	163.05
20	S 64°10'05" W	106.54
21	S 63°07'12" W	203.42
22	S 81°33'17" W	461.17
23	S 27°00'54" E	893.13
24	S 24°23'24" E	793.72

NO.	NORTHING	EASTING
651	520501.632	841586.914
620	519516.823	842037.822
681	521224.731	841979.296
672	521088.473	842122.955
673	520889.224	842191.203
674	520836.474	842184.309
675	520745.254	842369.331
661	520679.456	842364.170
662	520581.784	842398.747
663	520443.638	842336.832
664	520364.338	842358.592
626	520293.327	842337.901
627	520239.104	842408.803
628	520183.734	842750.390
630	520068.442	842855.375
631	520018.281	842868.450
632	519980.790	842708.760
633	519922.279	842627.878
634	519836.450	842443.440
628	521293.053	841526.157
626	521250.531	841950.878
629	521207.357	84180.999

LIGHTING SCHEDULE

STREET	STATION	OFFSET	LIGHT TYPE
WINDFLOWER DR.	23+56	16' RIGHT	100 WATT Hg VAPOR TRADITIONAIRE
WINDFLOWER DR.	26+40	22.5 RIGHT	POST TOP FIXTURE MOUNTED ON A 14 FT. BLACK FIBERGLASS POLE. (ALL 3 LIGHTS.)
ARJAY CIRCLE	2+65	4' RIGHT	



VICINITY MAP
SCALE: 1" = 2000'

BENCHMARKS

- BM 1
HOWARD COUNTY MONUMENT No. 3241002
ELEV. 304.602
CONCRETE MONUMENT
- BM 2
HOWARD COUNTY MONUMENT No. 3241001
ELEV. 308.648
CONCRETE MONUMENT

AS BUILT CERTIFICATE

Christopher J. Reid 10/15/99
CHRISTOPHER J. REID #19949 DATE

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING

Chris Surman 9/29/95
CHIEF, DIVISION OF LAND DEVELOPMENT & RESEARCH JK

Mark Deussen 9/28/95
CHIEF, DEVELOPMENT ENGINEERING DIVISION

APPROVED: HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS

Richard M. Lander 7-26-95
CHIEF, BUREAU OF HIGHWAYS JS

DATE	NO.	REVISION

OWNERS / DEVELOPER: PAUL L. MILLER, P.O. BOX 307, 9058 CHEVROLET DRIVE, ELLICOTT CITY, MARYLAND 21043

PROJECT: LITTLE PATUXENT RIDGE SECTION 3

AREA: TAX MAP NO. 24 PARCELS 278, 2nd ELECTION DISTRICT, HOWARD COUNTY, MARYLAND

TITLE: TITLE SHEET

RIEMER MUEGGE & ASSOCIATES, INC.
Planners • Engineers • Surveyors
8819 Centre Park Drive • Suite 200 • Columbia, Md 21045
410-997-8900 FAX: 410-997-1112

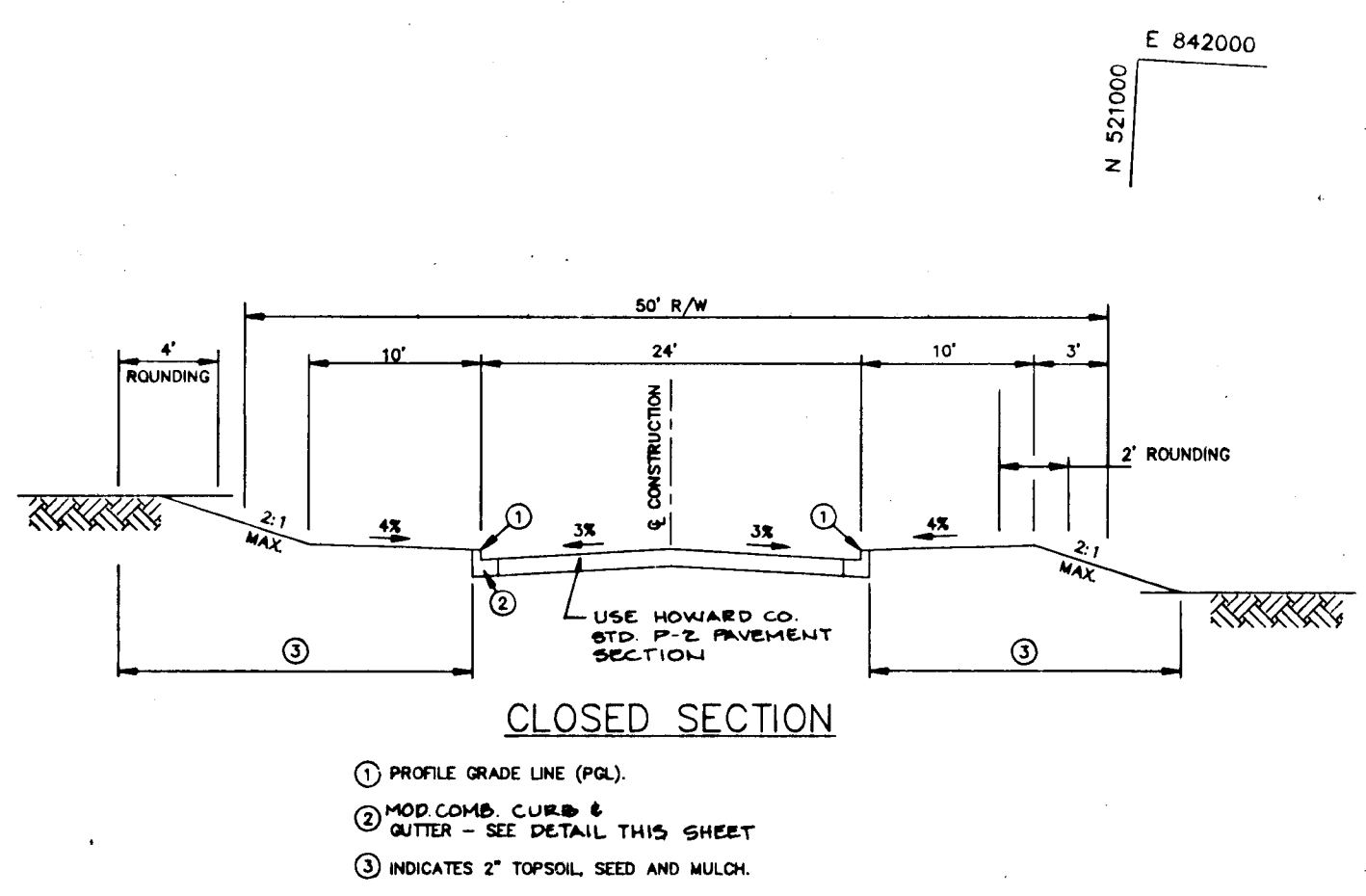
9-12-95 DATE

J. Farrell
PROFESSIONAL ENGINEER

DESIGNED BY: AAP
DRAWN BY: C
PROJECT: 95-111
DATE: SEPTEMBER 12, 1995
SCALE: AS SHOWN
DRAWING NO. 111 E

1643

PROPOSED STREET LIGHTS TO BE 100 WATT HPS VAPOR, TRADITIONAIRE POST TOP FIXTURE, MOUNTED ON A 14' BLACK FIBERGLASS POLE.



CUL-DE-SAC ROAD & TYPICAL SECTION LOCAL ROAD
NO SCALE

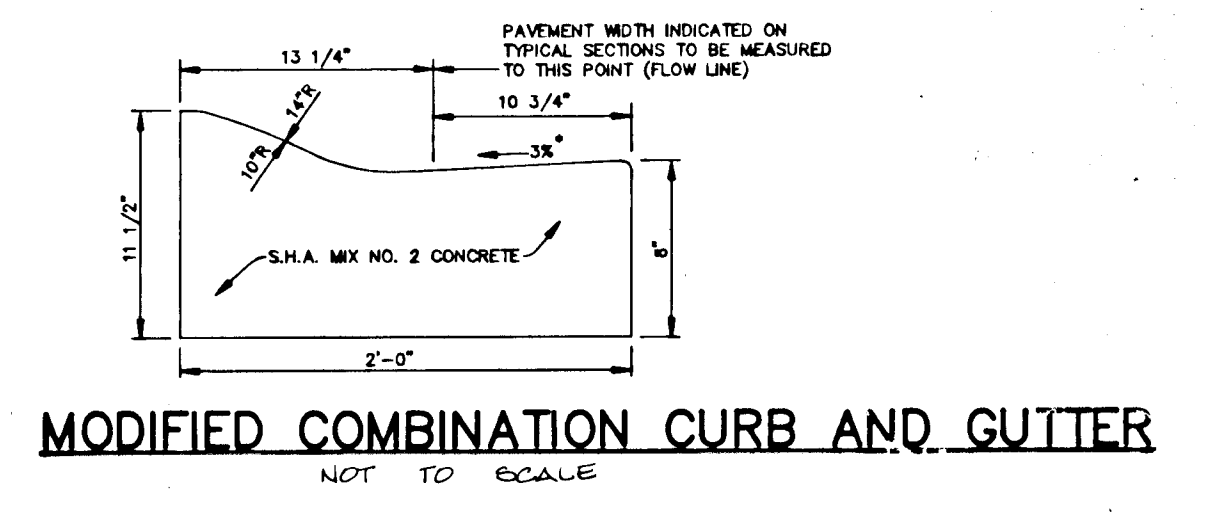
- ① PROFILE GRADE LINE (PGL)
- ② MOD. COMB. CURB & GUTTER - SEE DETAIL THIS SHEET
- ③ INDICATES 2" TOPSOIL, SEED AND MULCH.



CL CURVE DATA
FROM CL STA. 22+50.00 TO CL STA. 24+77.23

Δ = 60°23'
R = 200.00'
T = 127.48'
L = 227.23'
CHD = N 232°55'E 215.23'
D = 28°32'

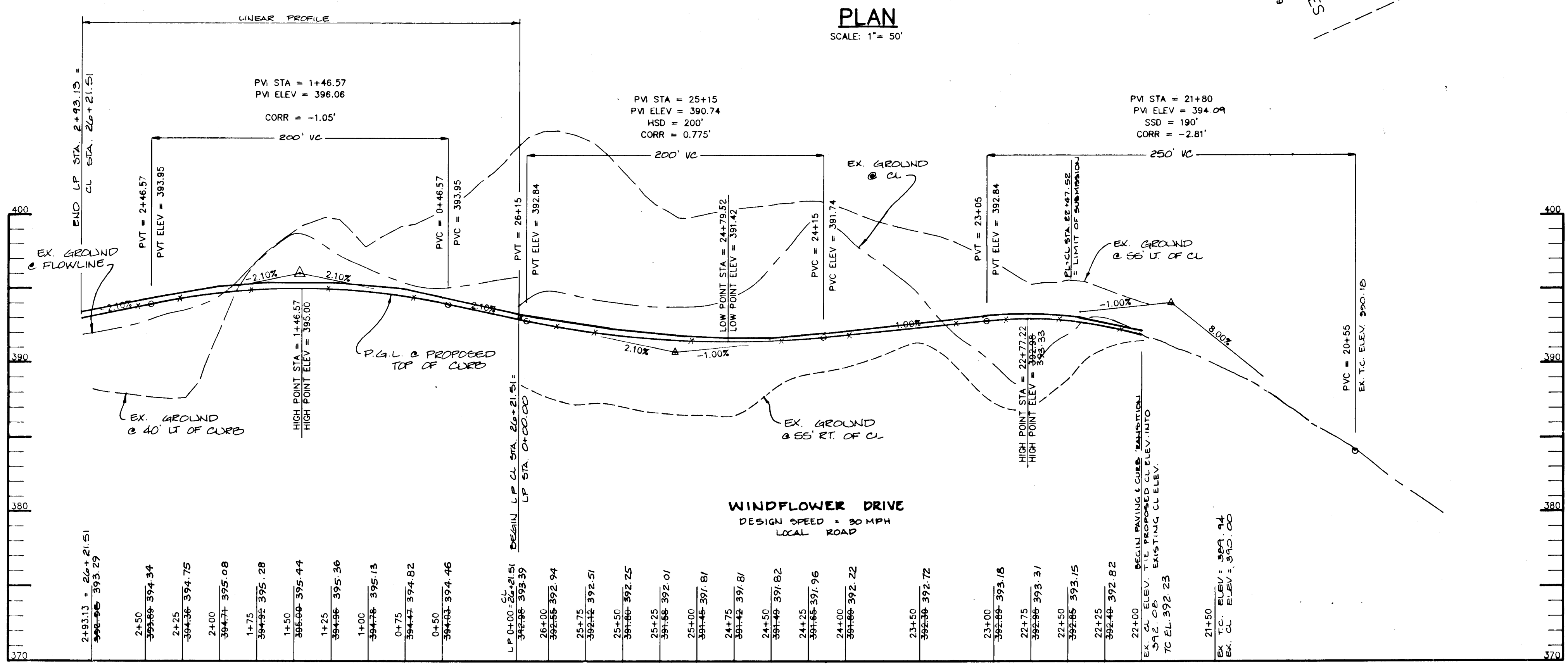
UNABLE TO SET DUE TO STONE WALL EX. DRIVEWAY



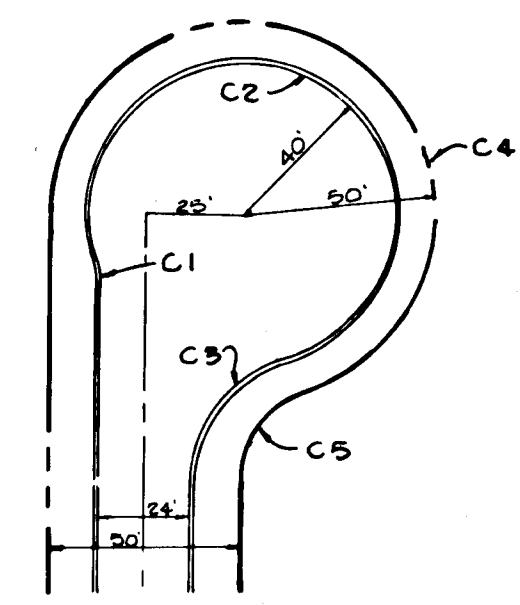
MODIFIED COMBINATION CURB AND GUTTER
NOT TO SCALE

NOTE: CONTRACTOR TO PROVIDE DEPRESSED CURB (STD DET R.3.03) AT EXISTING DRIVEWAYS FOR LOTS 49 & 50.

SEE PLANT SCHEDULE SHEET 3



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



WINDFLOWER DRIVE CUL-DE-SAC DETAIL
NOT TO SCALE

CURVE NO	RADIUS	TANGENT	LENGTH	Δ	CHD	B E D
C 1	95'	9.00'	9.00'	16°15'37"	N 11°15'08" W 7.95'	
C 2	40'	40.50'	50.00'	22°51'12.05"	S 64°44'40" E 56.70'	
C 3	95'	25.07'	41.01'	72°56'09"	S 33°25'00" W 44.56'	
C 4	50'	70.71'	81.05'	250°51'44"	S 57°43'25" E 81.05'	
C 5	15'	17.08'	28.07'	70°31'44"	S 92°10'35" W 30.77'	

AS-BUILT CERTIFICATE

DATE: 10-15-99

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING.

DATE: 9/29/95

APPROVED: HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS

DATE: 9-20-95

OWNER / DEVELOPER: PAUL L. MILLER, P.O. BOX 307, 9058 CHEVROLET DRIVE, ELLICOTT CITY, MARYLAND 21043

PROJECT: LITTLE PATUXENT RIDGE SECTION 3

AREA: TAX MAP NO. 24 PARCEL 228, 2nd ELECTION DISTRICT, HOWARD COUNTY, MARYLAND

TITLE: ROAD PLAN & PROFILE, WINDFLOWER DRIVE, CL STA 22+47.52 TO C: STA 27+13.9'

RIEMER MUEGGE & ASSOCIATES, INC., Planners • Engineers • Surveyors, 8818 Centre Park Drive • Suite 200 • Columbia, MD 2105, 410-997-8900 FAX: 410-997-9282

DATE: 12-12-95

DESIGNED BY: AAP

DRAWN BY: CM

PROJECT NO: 95H67311

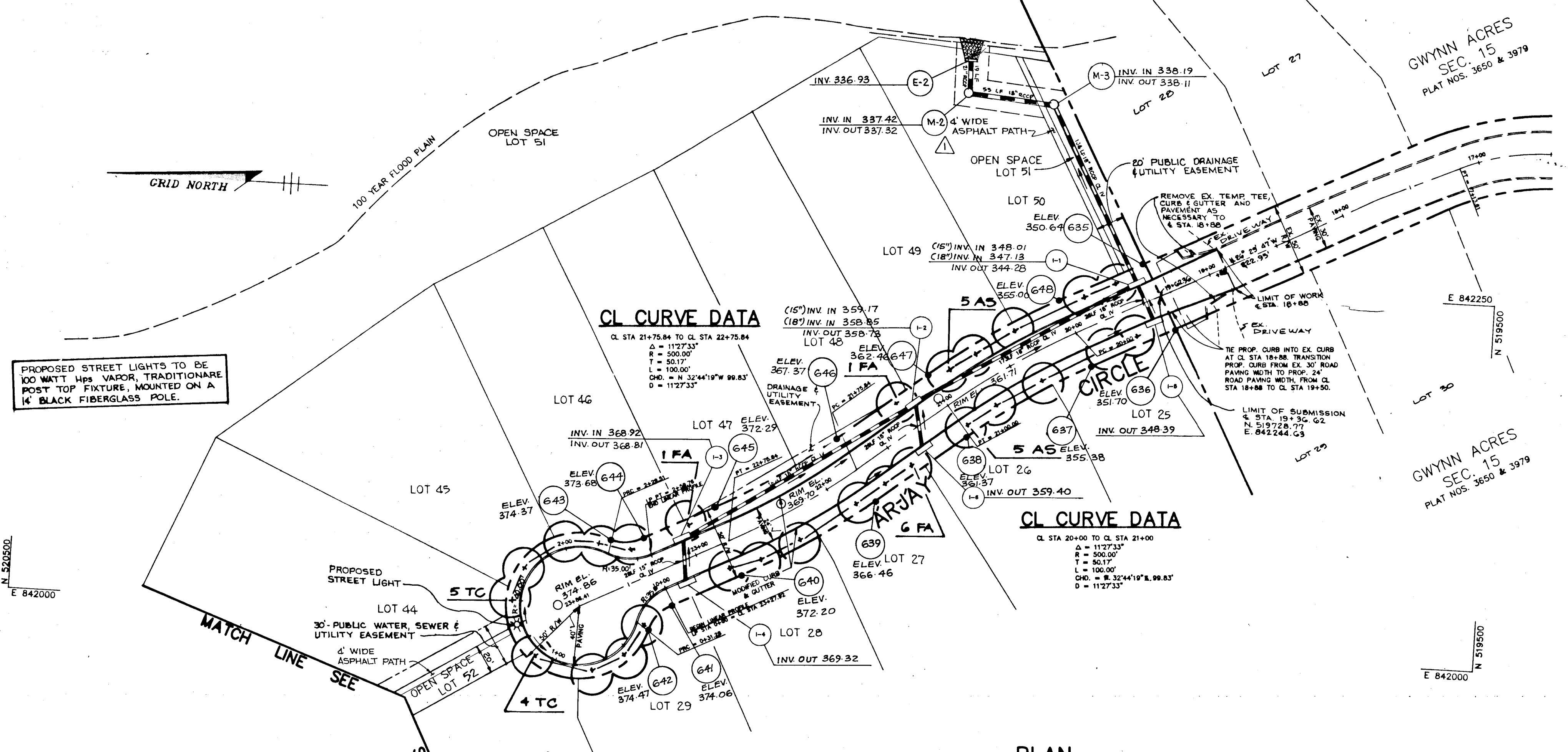
DATE: SEPTEMBER 12, 1999

SCALE: AS SHOWN

DRAWING NO. 2 OF 6

1643

1643

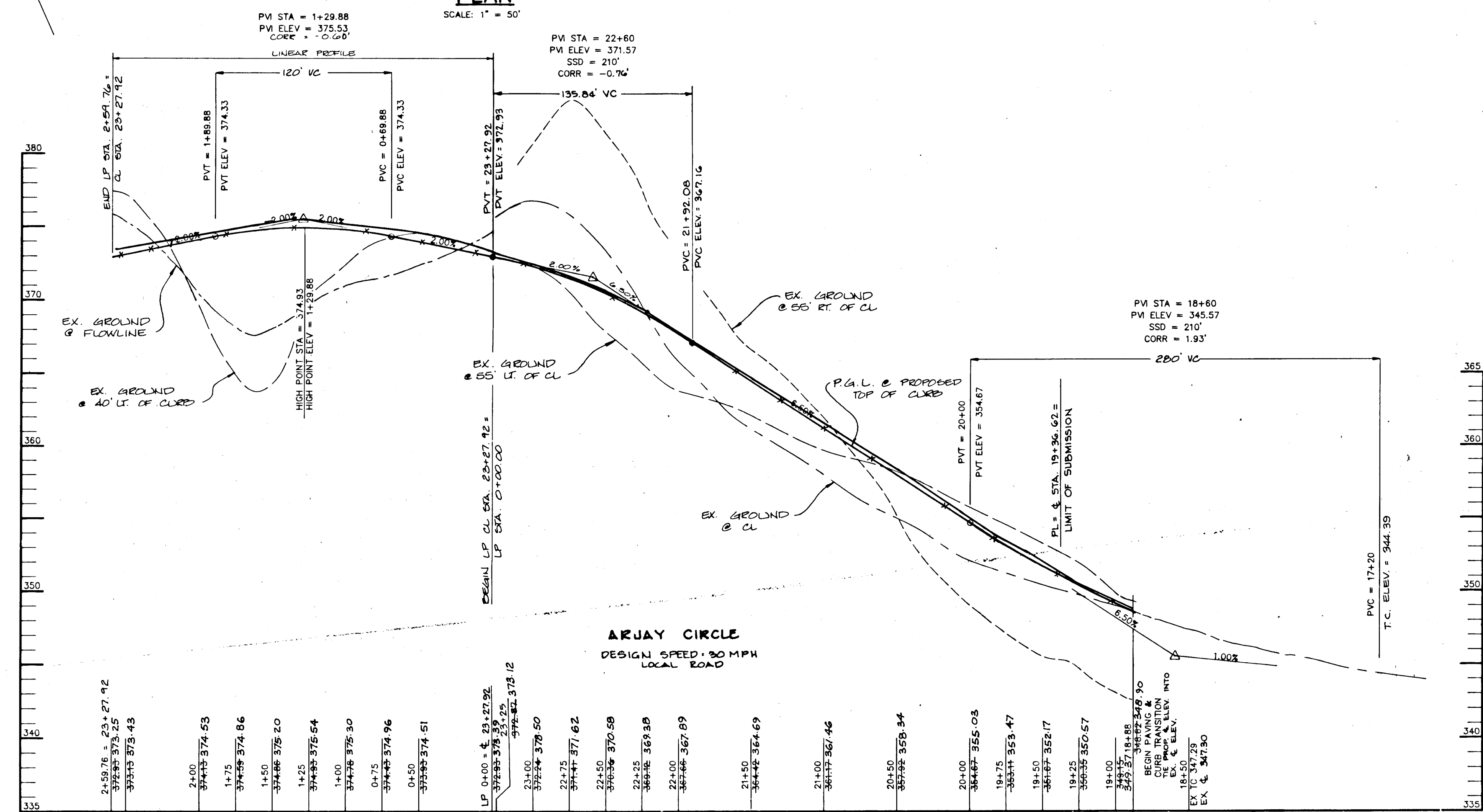


PLANT SCHEDULE (INCLUDES ALL SHEETS)

KEY	QTY	NAME	SIZE	REMARKS
AS	23	ACER SACCHARUM 'LEGACY' LEGACY SUGAR MAPLE	2 1/2"-3" CAL. 12'-14' HT.	B & B
FA	15	FRAXINUS AMERICANA 'AUTUMN PURPLE' AUTUMN PURPLE AMERICAN ASH	2 1/2"-3" CAL. 12'-14' HT.	B & B
TC	16	TILIA CORDATA 'GREENSPIRE' GREENSPIRE LITTLELEAF LINDEN	2 1/2"-3" CAL. 12'-14' HT.	B & B

NOTE:
* SEE HOWARD COUNTY STD. DETAIL R-5.01 FOR NORMAL CUL-DE-SAC W/O ISLAND DIMENSIONS.
* CONTRACTOR TO PROVIDE DEPRESSED CURB (STD. DET. R.308) AT EX. DRIVEWAYS FOR LOTS 25 & 29.

PLAN
SCALE: 1" = 50'



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

AS-BUILT CERTIFICATE

Christopher J. Reid 10.15.99
CHRISTOPHER J. REID #19949 DATE

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING.

Gina Summery 9/29/95
CHIEF, DIVISION OF LAND DEVELOPMENT & RESEARCH JR DATE

John D. ... 9/28/95
CHIEF, DEVELOPMENT ENGINEERING DIVISION DATE

APPROVED: HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS

Andrew M. ... 7-20-95
CHIEF, BUREAU OF HIGHWAYS HS DATE

1/16/96 Δ REVISION: REVISED STORMDRAIN OUTFALL @ LOT 50.

DATE NO. REVISION

OWNER / DEVELOPER
PAUL L. MILLER
P.O. BOX 307
9058 CHEVROLET DRIVE
ELLCOTT CITY, MARYLAND 21043

PROJECT
LITTLE PATUXENT RIDGE SECTION 3

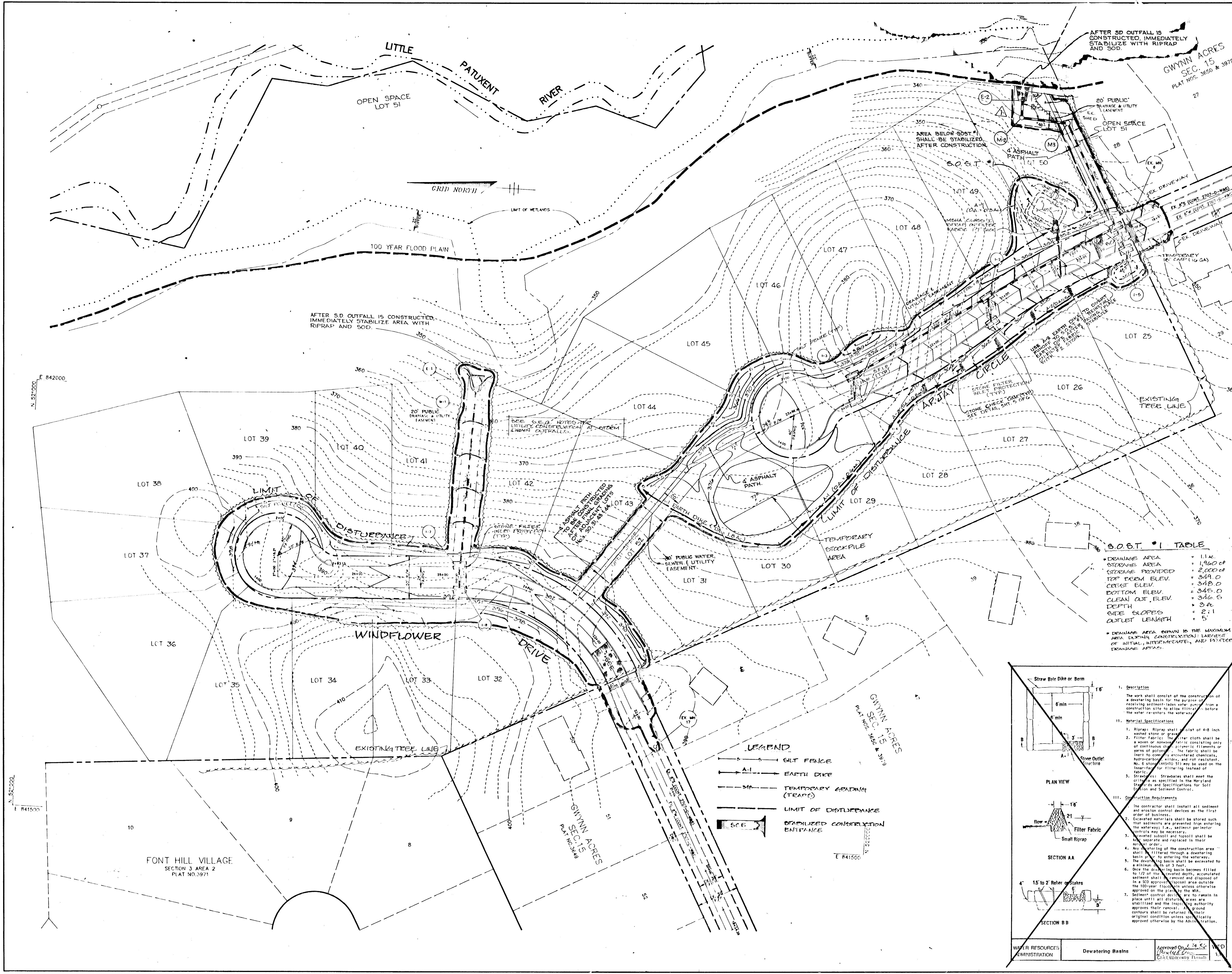
AREA
TAX MAP NO. 24 PARCEL 273
2nd ELECTION DISTRICT
HOWARD COUNTY, MARYLAND

TITLE
ROAD PLAN & PROFILE
ARJAY CIRCLE
CL STA 19+36.62 TO CL STA 23+6.41

RIEMER MUEGGE & ASSOCIATES, INC.
Planners • Engineers • Surveyors
8818 Centre Park Drive • Suite 200 • Columbia, MD 21047
410-997-8900 FAX: 410-997-9282

9.12.95 DATE
DESIGNED BY: AAP
DRAWN BY: C
PROJECT NO: 95-57-1
DATE: SEPTEMBER 12, 1995
SCALE: AS SHOWN
DRAWING NO: 3 OF 5

J. ...
JAYKANT D. PAREKH #1914P



NOTE: IF THE PROPOSED CONNECTION TO EXISTING ARJAY CIRCLE IS NOT USED FOR CONSTRUCTION TRAFFIC INGRESS/EGRESS, THEN A STABILIZED CONSTRUCTION ENTRANCE (SCE) IS NOT REQUIRED.

AS-BUILT CERTIFICATE
 10-15-99 DATE
 CHRISTOPHER J. REID # 19949

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.
 Paul L. Miller 9/7/95 DEVELOPER 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. Sarekh 9-12-95 ENGINEER DATE

THESE PLANS HAVE BEEN REVIEWED FOR THE HOWARD SOIL CONSERVATION DISTRICT AND MEET THE TECHNICAL REQUIREMENTS FOR SOIL EROSION AND SEDIMENT CONTROL.
 Patricia Englejohn 9/15/95 NATURAL RESOURCE CONSERVATION SERVICE DATE

THIS DEVELOPMENT PLAN IS APPROVED FOR SOIL EROSION AND SEDIMENT CONTROL BY THE HOWARD SOIL CONSERVATION DISTRICT.
 John R. Robertson 9/15/95 HOWARD SOIL CONSERVATION DISTRICT DATE

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING.
 Gina Swinney 9/29/95 CHIEF, DIVISION OF LAND DEVELOPMENT & RESEARCH DATE

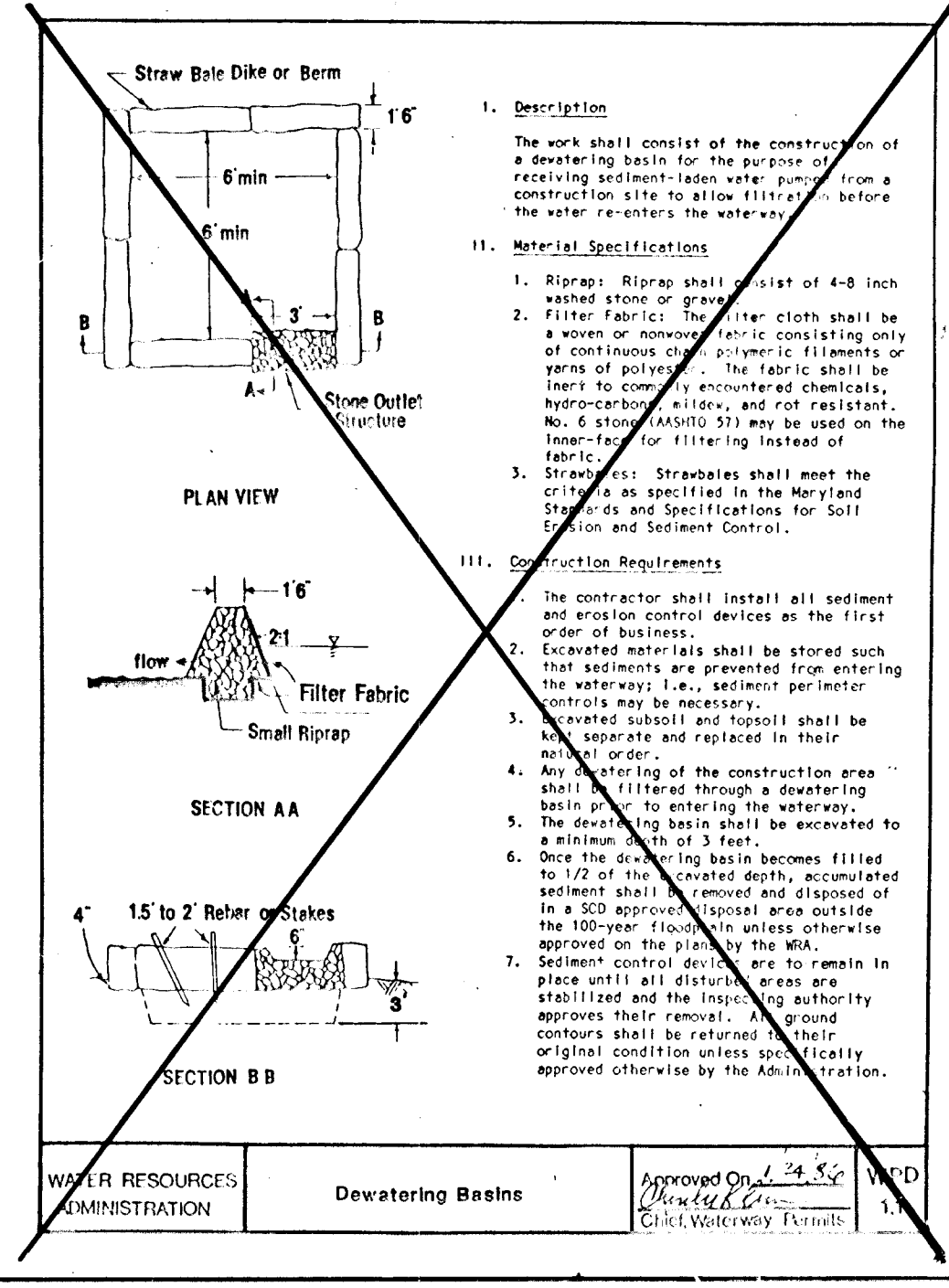
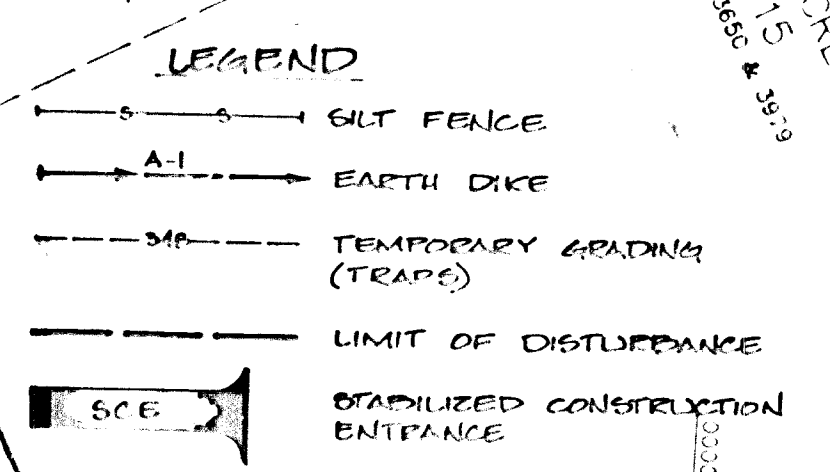
APPROVED: HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
 Chad Dammann 9/29/95 CHIEF, DEVELOPMENT ENGINEERING DIVISION DATE

APPROVED: HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
 Robert M. Dwyer 9-20-95 CHIEF, BUREAU OF HIGHWAYS DATE

S.O.B.T. # 1 TABLE

DEWATERING AREA	1146
STORAGE AREA	1960 CF
STORAGE PROVIDED	2200 CF
TOP FLOOR ELEV.	349.0
CREST ELEV.	348.0
BOTTOM ELEV.	345.0
CLEAN OUT ELEV.	346.5
DEPTH	3 ft
SIDE SLOPES	2:1
OUTLET LENGTH	5'

* DRAINAGE AREA ENHANCED TO THE MAXIMUM AREA CAPABLE OF COLLECTION; LAYOUT OF INITIAL, INTERMEDIATE, AND PROTECTED DRAINAGE AREAS.



1/16/96 REVISED STORMDRAIN OUTFALL @ LOT 50
 DATE NO. REVISION
 OWNER / DEVELOPER PAUL L. MILLER, P.O. BOX 307, 9058 CHEVROLET DRIVE, ELLICOTT CITY, MARYLAND 21043

PROJECT LITTLE PATUXENT RIDGE SECTION 3
 AREA TAX MAP NO. 24 PARCEL 228, 2nd ELECTION DISTRICT, HOWARD COUNTY, MARYLAND
 TITLE GRADING AND SEDIMENT CONTROL PLAN

RIEMER MUEGGE & ASSOCIATES, INC.
 Planners • Engineers • Surveyors
 8818 Centre Park Drive • Suite 200 • Columbia, MD 21045
 410-997-8800 FAX: 410-997-9282

9-12-95 DATE
 DESIGNED BY: AAP
 DRAWN BY: CM/RJC
 PROJECT NO: 95H67311
 DATE: SEPTEMBER 12, 1995
 SCALE: 1" = 50'
 DRAWING NO. 4 OF 6

1643

TEMPORARY SEEDING NOTES

Apply to graded or cleared areas likely to be redistributed where a short-term vegetative cover is needed.

Seedbed Preparation: Loosen upper three inches of soil by raking, disking 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, disking or other acceptable means before seeding. If not previously loosened.

Soil Amendments: In lieu of soil test recommendations, use one of the following schedules:

- 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.).
- 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:

- 2 tons per acre of well-anchored mulch straw and seed as soon as possible in the spring.
- Use sod.
- Seed with 60 lbs. per acre Kentucky 31 Tall Fescue and mulch with 2 tons per acre well anchored straw.

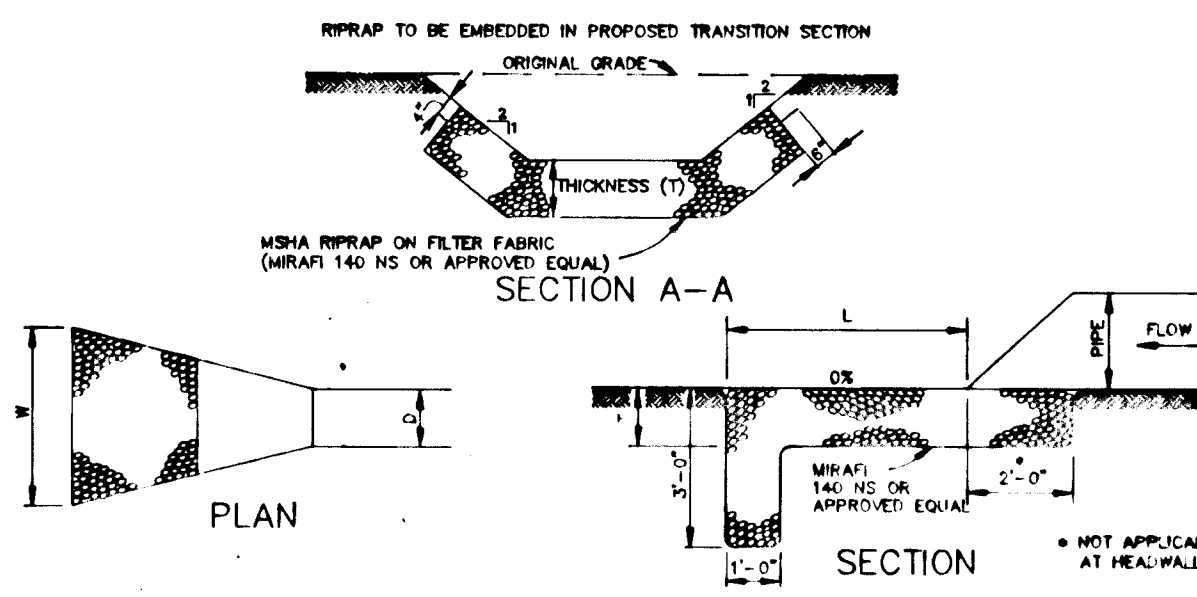
Mulching: Apply 1-1/2 to 2 tons per acre (70 to 90 lbs. per 1000 sq.ft.) of unrotted small grain straw immediately after seeding. Anchor mulch immediately after application using mulch anchoring tool or 218 gal. per acre (5 gal. per 1000 sq.ft.) of emulsified asphalt on flat areas. On slopes, 8 ft. or 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

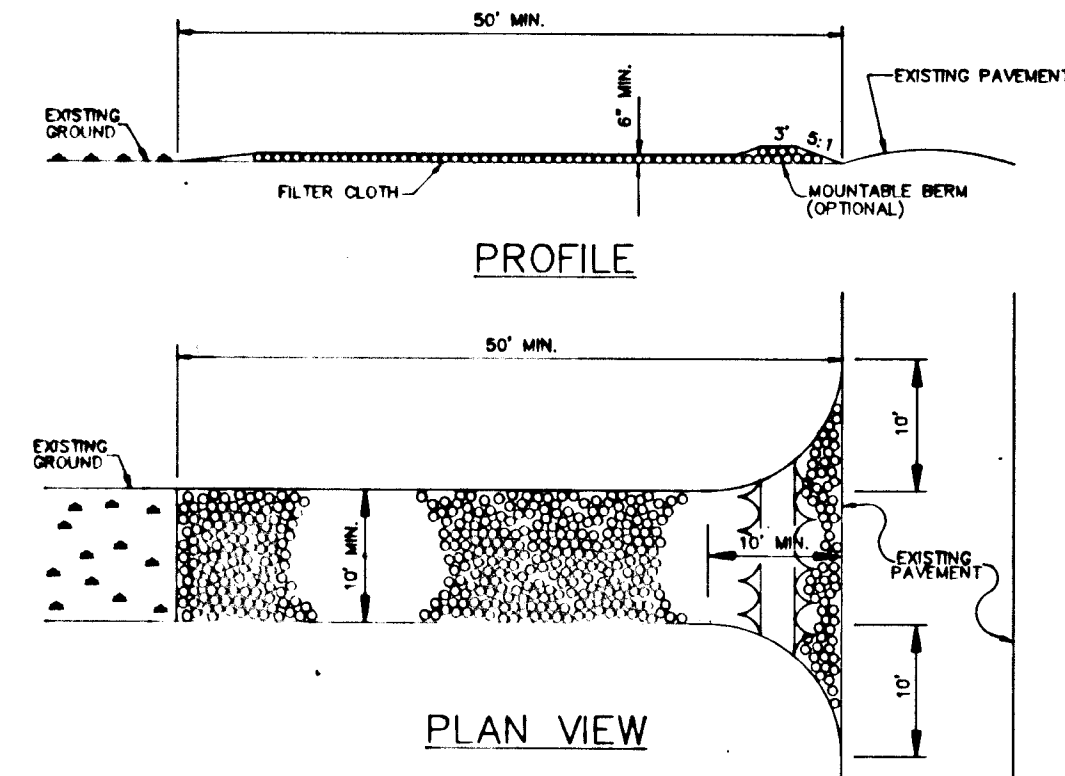
- A minimum of 24 hours notice must be given to the Howard County Office of Inspections and Permits prior to the start of any construction. (992-2437).
- All vegetative and structural practices are to be installed according to the provisions of this plan and are to be in conformance with the 1983 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL AND EROSION CONTROL.
- Following initial soil disturbance or re disturbance, 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.
- 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.
- 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.
- 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.
- Site Analysis:

Total Area of Site	25.3 acres
Area Disturbed	3.04 acres
Area to be roofed or paved	0.72 acres
Area to be vegetatively stabilized	2.32 acres
Total Cut	3802.5 cu. yds.
Total Fill	4902.1 cu. yds.
- Any sediment control practice which is disturbed by grading activity for placement of utilities must be repaired on the same day of disturbance.
- Additional sediment controls must be provided, if deemed necessary by the Howard County Department of Public Works Sediment Control Inspector.
- Site grading will begin only after all perimeter sediment control measures have been installed and are in a functioning condition.
- Sediment will be removed from traps when its depth reaches clean out elevation shown on the plans.
- 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.
- 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 approval by the inspection agency is made.



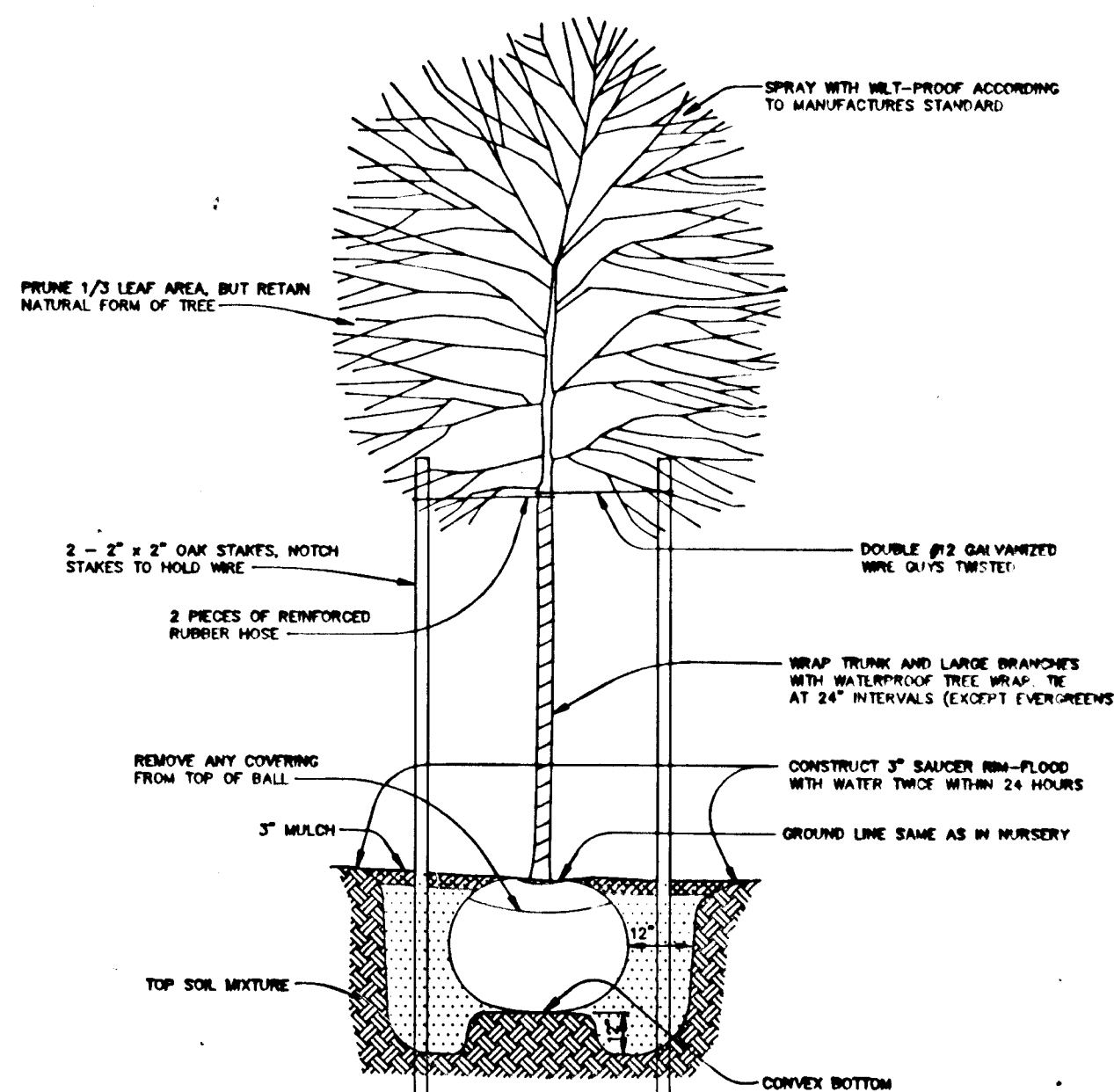
STRUCTURE	MEAN STONE DIA.	LENGTH (L)	WIDTH (W)	THICKNESS (T)	MSHA CLASS
E-1	9.5"	15'	16'	1'-7"	I
E-2	9.5"	15'	16'	1'-7"	I

RIPRAP OUTLET PROTECTION DETAIL
NO SCALE

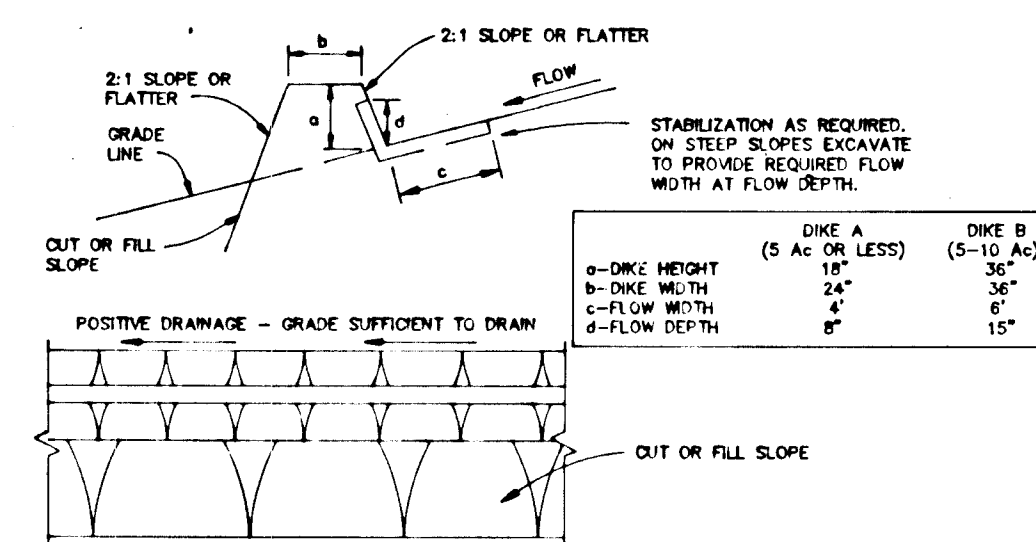


- CONSTRUCTION SPECIFICATIONS**
- STONE SIZE - USE 2" STONE OR RECLAIMED OR RECYCLED CONCRETE EQUIVALENT.
 - LENGTH - AS REQUIRED, BUT NOT LESS THAN 50 FEET (EXCEPT ON A SINGLE RESIDENCE LOT WHERE A 30 FOOT MINIMUM WOULD APPLY).
 - THICKNESS - NOT LESS THAN SIX (6) INCHES.
 - WIDTH - TEN (10) FEET MINIMUM, BUT NOT LESS THAN THE FULL WIDTH AT POINTS WHERE INGRESS AND EGRESS OCCURS.
 - 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.
 - SURFACE WATER - ALL SURFACE WATER FLOWING OR DIVERTED TOWARD CONSTRUCTION ENTRANCE SHALL BE PIPED ACROSS THE ENTRANCE. IF PIPING IS IMPRACTICAL, THE ENTRANCE SHALL BE STABILIZED.
 - 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 MESHES USED TO PROTECT PUBLIC RIGHTS-OF-WAY MUST BE REMOVED IMMEDIATELY. IT SHALL BE DONE ON AN AREA STABILIZED WITH STONE AND WHICH DRAINAGE INTO AN APPROVED SEDIMENT TRAPPING DEVICE.
 - PERIODIC INSPECTION AND NEEDED MAINTENANCE SHALL BE PROVIDED AFTER EACH RAIN.

STABILIZED CONSTRUCTION ENTRANCE
NO SCALE



TREE PLANTING DETAIL
NO SCALE



- CONSTRUCTION SPECIFICATIONS**
- ALL DIKES SHALL BE COMPACTED BY EARTH-MOVING EQUIPMENT.
 - ALL DIKES SHALL HAVE POSITIVE DRAINAGE TO AN OUTLET.
 - TOP WIDTH MAY BE WIDER AND SLOPES MAY BE FLATTER IF DESIRED TO FACILITATE CROSSING BY CONSTRUCTION TRAFFIC.
 - FIELD LOCATION SHOULD BE ADJUSTED AS NEEDED TO UTILIZE A STABILIZED SAFE OUTLET.
 - EARTH DIKES SHALL HAVE AN OUTLET THAT FUNCTIONS WITH A MINIMUM OF EROSION. RIGIDITY 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.
 - 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

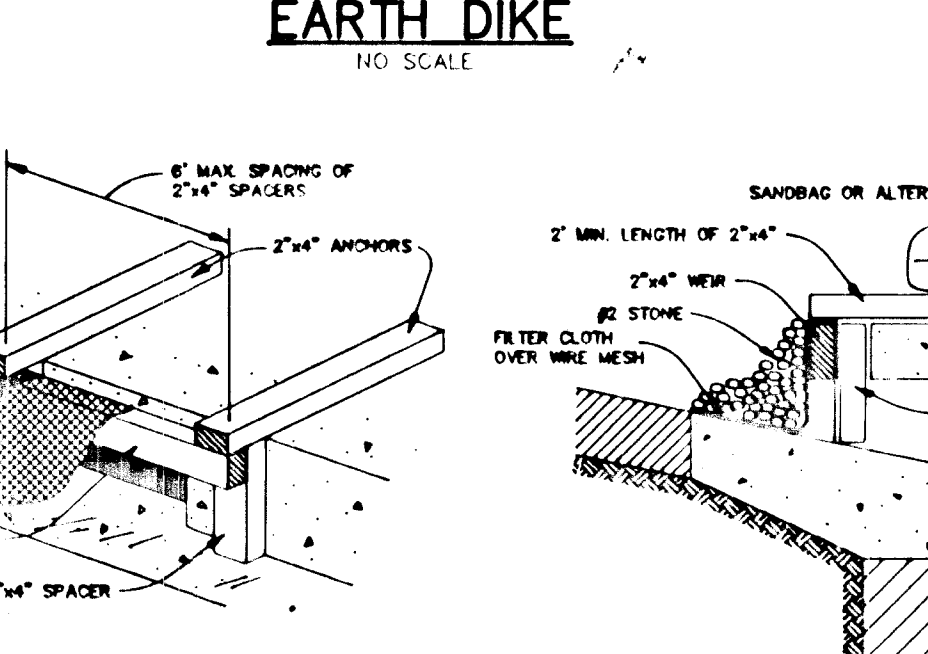
TYPE OF TREATMENT	CHANNEL GRADE	DIKE A	DIKE B
1	0.5-2.0%	SEED & STRAW MULCH	SEED & STRAW MULCH
2	3.1-5.0%	SEED & STRAW MULCH	SEED USING AJTL OR EXCESSIVE/500.2" STONE
3	5.1-8.0%	SEED WITH AJTL OR 500.2" STONE	LINED RIPRAP 4-8"
4	8.1-20%	LINED RIPRAP 4-8"	ENGINEERED DESIGN

NOTE: 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.

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

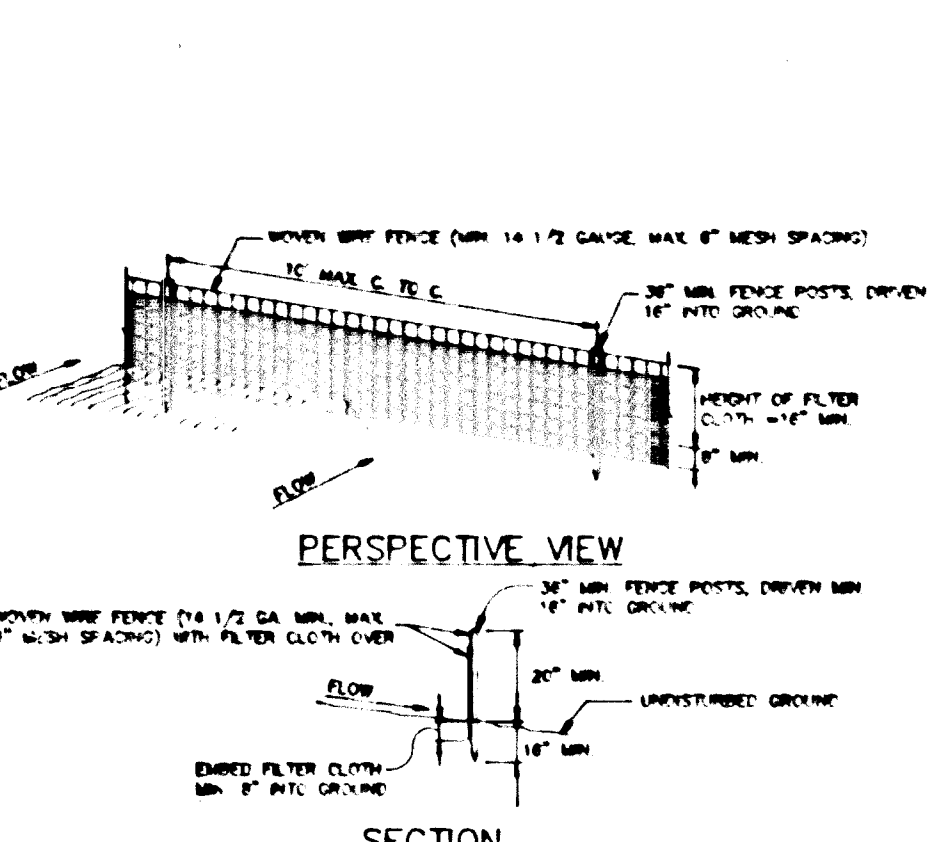
NOTE: APPROVED EQUIVALENTS CAN BE SUBSTITUTED FOR ANY OF THE ABOVE MATERIALS.

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



- CONSTRUCTION SPECIFICATIONS**
- WOODEN FRAME IS TO BE CONSTRUCTED OF 2" X 4" CONSTRUCTION GRADE LUMBER AND BE REINFORCED WITH 2" X 4" BRACES.
 - WIRE MESH MUST BE OF SUFFICIENT STRENGTH TO SUPPORT FILTER FABRIC AND STONE, WITH WATER FULLY IMPOUNDED AGAINST IT.
 - FILTER CLOTH MUST BE OF A TYPE APPROVED FOR THIS PURPOSE, RESISTANT TO SUNLIGHT WITH A SEWE SIZE EGS 40-60, TO ALLOW SUFFICIENT PASSAGE OF WATER AND REMOVAL OF SEDIMENT.
 - STONE IS TO BE 2" IN SIZE AND CLEAN, SINCE FINES WOULD CLOG THE CLOTH.
 - PROCEDURE FOR CLOSURE PROTECTION:
 - ATTACH A CONTINUOUS PIECE OF WIRE MESH (20" MIN. WITH HORIZONTAL LENGTH PLUS 4") TO THE 2" X 4" WIRE (LEADING FROM LENGTH PLUS 2") AS SHOWN ON THE STAIRCASE DRAWING.
 - PLACE A PIECE OF APPROVED FILTER CLOTH (4" MIN. BEYOND) OF THE SAME DIMENSIONS AS THE WIRE MESH OVER THE WIRE MESH AND SECURE ATTACH TO THE 2" X 4" WIRE.
 - SECURELY NAIL THE 2" X 4" WIRE TO 8" LONG VERTICAL SPACERS TO BE LOCATED BETWEEN THE WIRE AND INLET FACE (MAX 6' APART).
 - PLACE THE ASSEMBLY AGAINST THE INLET THROAT AND NAIL (MINIMUM 2" LENGTHS OF 2" X 4" TO THE TOP OF THE WIRE AT SPACER LOCATIONS). THESE 2" X 4" ANCHORS SHALL EXTEND ACROSS THE INLET TO AN 8" BEHOLD IN PLACE BY SANDBAGS OR ALTERNATE METHOD.
 - THE ASSEMBLY SHALL BE PLACED SO THAT THE END SPACERS ARE A MINIMUM 18" BEYOND BOTH ENDS OF THE THROAT OPENING.
 - FORM THE WIRE MESH AND FILTER CLOTH TO THE CONCRETE GUTTER AND AGAINST THE FACE OF THE CURB ON BOTH SIDES OF THE INLET. PLACE CLEAN 2" STONE OVER THE WIRE MESH AND FILTER FABRIC BY SUCH A MANNER AS TO PREVENT WATER FROM ENTERING THE INLET UNDER OR AROUND THE FILTER FABRIC.
 - THIS TYPE OF PROTECTION MUST BE INSPECTED FREQUENTLY AND THE FILTER CLOTH AND STONE RE-SET WHEN CLOGGED WITH SEDIMENT.
 - ASSURE THAT STONE FLOW DOES NOT BYPASS INLET BY INSTALLING TEMPORARY EARTH OR ASPHALT DUES DIRECTING FLOW INTO INLET.

STONE FILTER INLET PROTECTION
NO SCALE



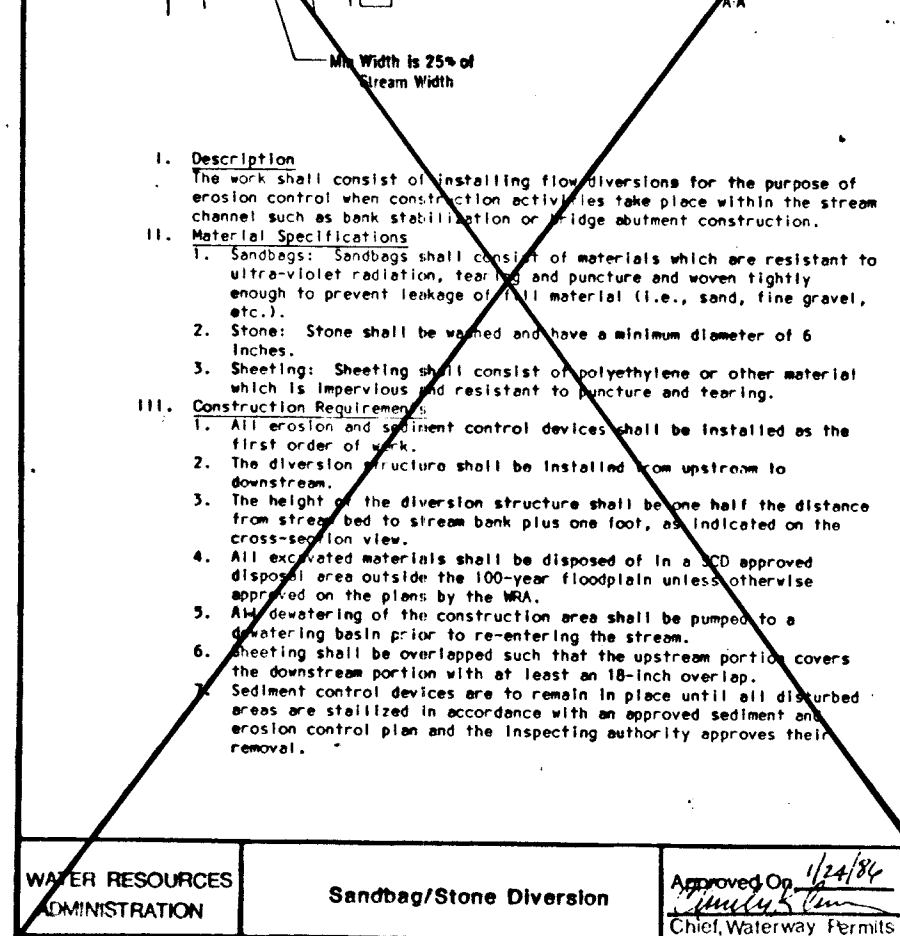
- CONSTRUCTION NOTES FOR FABRICATED SILT FENCE**
- WOODEN FRAME IS TO BE FASTENED TO FENCE POSTS WITH NAILS AND STAPLES.
 - FILTER CLOTH IS TO BE FASTENED TO WIRE MESH WITH NAILS SPACED EVERY 24" AT TOP AND BOTTOM.
 - WHEN THE SECTIONS OF FILTER CLOTH ADJOIN EACH OTHER THEY SHALL BE OVERLAPPED BY 30" MINIMUM (12" MIN. FOR TOP).
 - 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. 7" MAX. MESH OPENING.
FILTER CLOTH: FILTER 2, WIPAP LOGS, STAINLESS STEEL OR APPROVED EQUAL.
PREPARED UNIT: GEOPAN ENHANCEMENT, OR APPROVED EQUAL.

SILT FENCE DETAIL
NO SCALE

- (SEQUENCE OF CONSTRUCTION (LITTLE PATUXENT RIDGE - SECTION 3))
- OBTAIN A GRADING PERMIT AND OTHER NECESSARY PERMITS PRIOR TO BEGINNING CONSTRUCTION. ALL WORK SHALL CONFORM TO THE 1983 MD STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL.
 - CLEAR AND GRUB FOR AND INSTALL PERIMETER CONTROLS - STABILIZED CONSTRUCTION ENTRANCE, SILT FENCE AND EARTH DIKES. INSTALL TEMPORARY CHECK DAMS IN BACK OF ARMY CIRCLE EARTH DIKE. CHECK DAMS SHALL BE REPAIRED IMMEDIATELY IF DISTURBED BY GRADING OPERATIONS. (2 WEEKS)
 - INSTALL AND CORRECT STRUCTURES E-1, E-2, E-3, E-4, E-5, E-6, E-7. INSTALL TEMPORARY 18" CHP AT 1-5 TO DIVERT CLEAN WATER AROUND CONSTRUCTION AREA. INSTALL STONE FILTER PROTECTION ON INLETS AND IMMEDIATELY STABILIZE AREA WITH SOIL AT TEMPORARY 18" PIPE ENTRANCE AND BELOW S.O.S.T. 1 OUTFALL. (3 WEEKS)
 - INSTALL S.O.S.T. 1 AFTER DOWNSTREAM AREA (AT STORM DRAIN OUTFALL) HAS BEEN STABILIZED WITH SOIL. (1 WEEK)
 - CLEAR AND GRUB SITE AND BEGIN GRADING. (4 WEEKS)
 - AS ROAD SUBGRADE ARE ESTABLISHED, INSTALL PERMANENT STORM DRAINS, WATER AND SEWER, AND OTHER UTILITIES. INSTALL STONE FILTER PROTECTION ON INLETS AS THESE ARE COMPLETE. (4 WEEKS)
 - INSTALL CURB & GUTTER AND PAVE ROADWAYS. (2 WEEKS)
 - STABILIZE DISTURBED AREAS WITH PERMANENT SEEDING. (1 WEEK)
 - THOROUGHLY CLEAN AND FLOOD STORM DRAIN SYSTEM.
 - UPON APPROVAL OF THE HOWARD COUNTY SEDIMENT CONTROL INSPECTOR, REMOVE SEDIMENT CONTROL CONTROLS AND TEMPORARY 18" CHP. STABILIZE AREAS DISTURBED BY THIS PROCESS WITH PERMANENT SEEDING. (2 WEEKS)
 - INSTALL STREET LIGHTS, LANDSCAPING, AND STONE. (2 WEEKS)

UTILITY CONSTRUCTION NOTES FOR STORM DRAIN OUTFALLS

- CONTRACTOR WILL OPEN ONLY THAT LENGTH OF TRENCH THAT CAN BE BACKFILLED AND STABILIZED EACH DAY. IF TRENCH MUST REMAIN OPEN LONGER THAN ONE (1) DAY, SILT FENCE SHALL BE PLACED DOWNLENGTH OF THE TRENCH.
- PLACE ALL EXCAVATED MATERIAL ON UPDRILL SIDE OF TRENCH.
- ANY SEDIMENT CONTROLS DISTURBED BY UTILITY CONSTRUCTION ARE TO BE REPAIRED IMMEDIATELY.



UTILITY CONSTRUCTION NOTES FOR STORM DRAIN OUTFALLS

AS-BUILT CERTIFICATE

DATE: 9/15/95

DEVELOPER: Paul L. Miller

ENGINEER: J. Saubh

DATE: 9/12/95

DATE: 9/15/95

DATE: 9/15/95

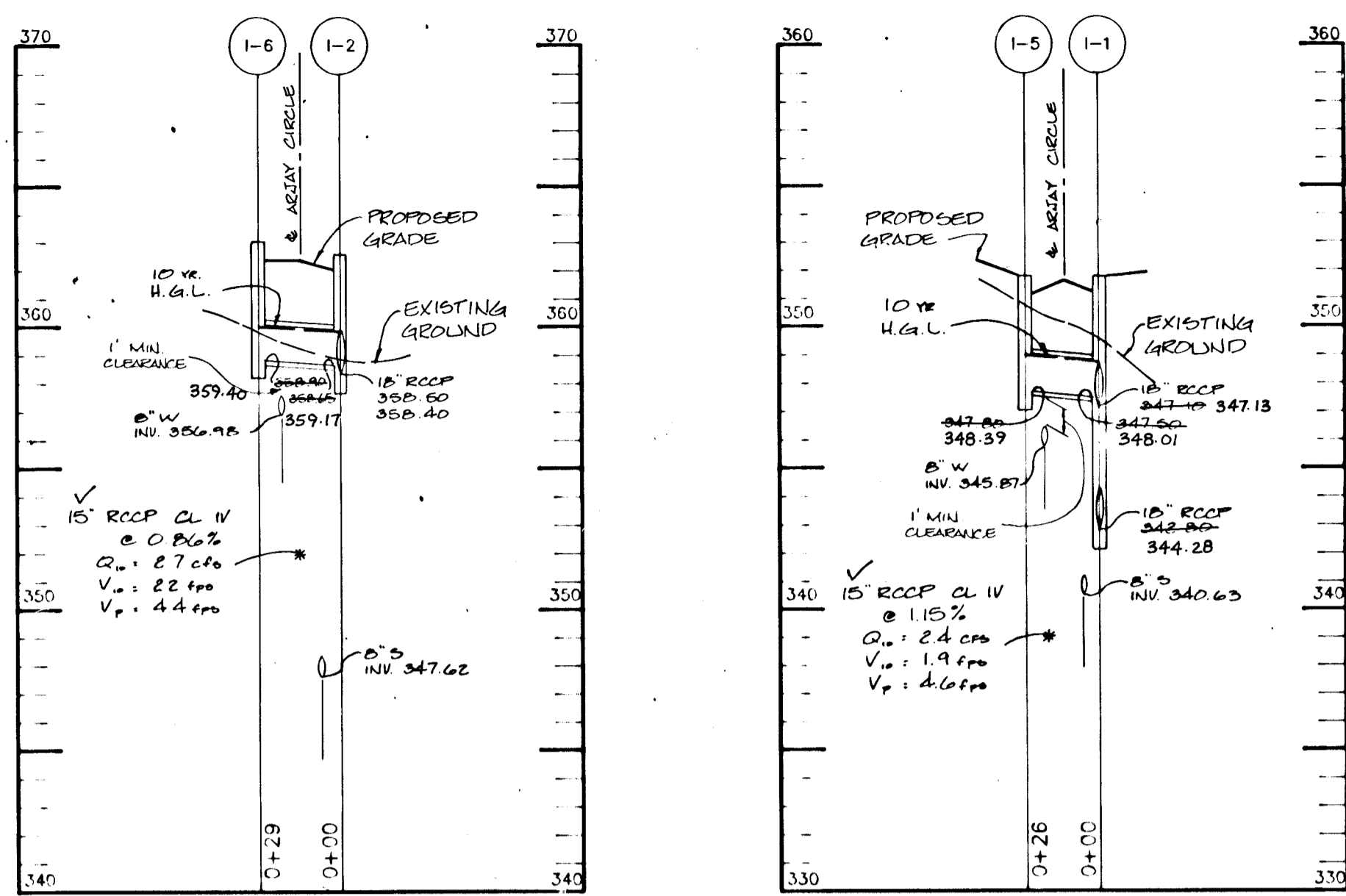
APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING. DATE: 9/29/95

APPROVED: HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS. DATE: 9/29/95

APPROVED: BUREAU OF HIGHWAYS. DATE: 9-20-95

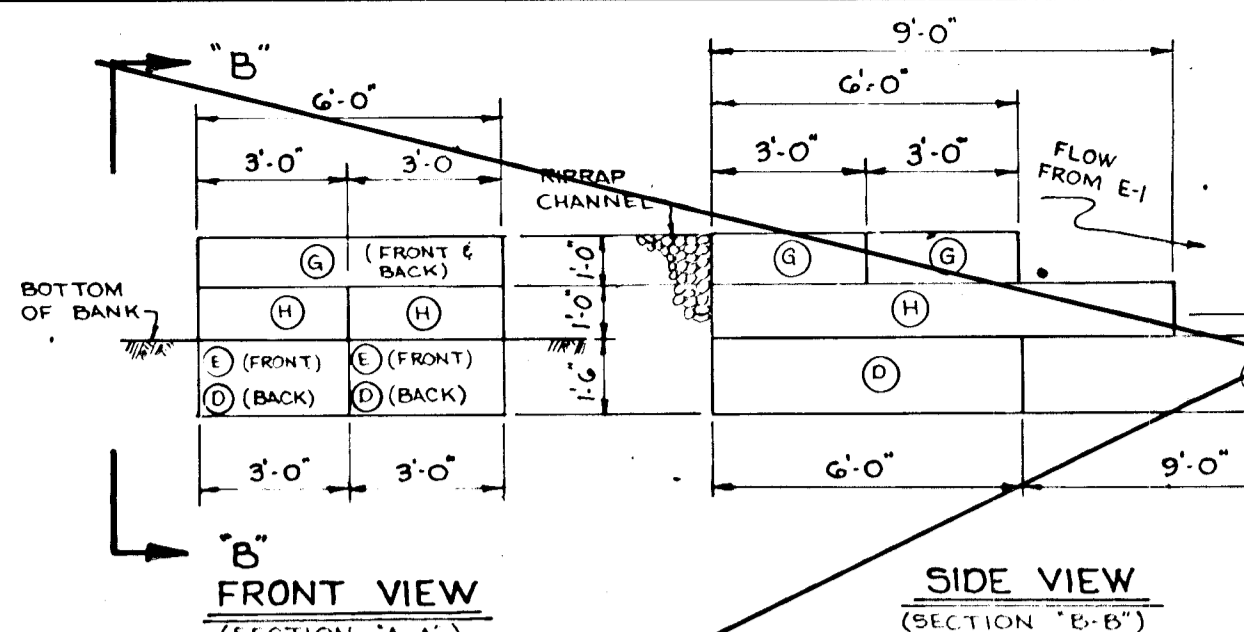
DATE NO.	REVISION
OWNER / DEVELOPER	PAUL L. MILLER
PROJECT	LITTLE PATUXENT RIDGE SECTION 3
AREA	TAX MAP NO. 24 PARCEL 228 2nd ELECTION DISTRICT HOWARD COUNTY, MARYLAND
TITLE	GRADING AND SEDIMENT CONTROL NOTES AND DETAILS
DESIGNED BY:	AAP
DRAWN BY:	CM
PROJECT NO.:	95H67311
DATE:	SEPTEMBER 12, 1995
SCALE:	AS SHOWN
DRAWING NO.:	5 OF 6

1643



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

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



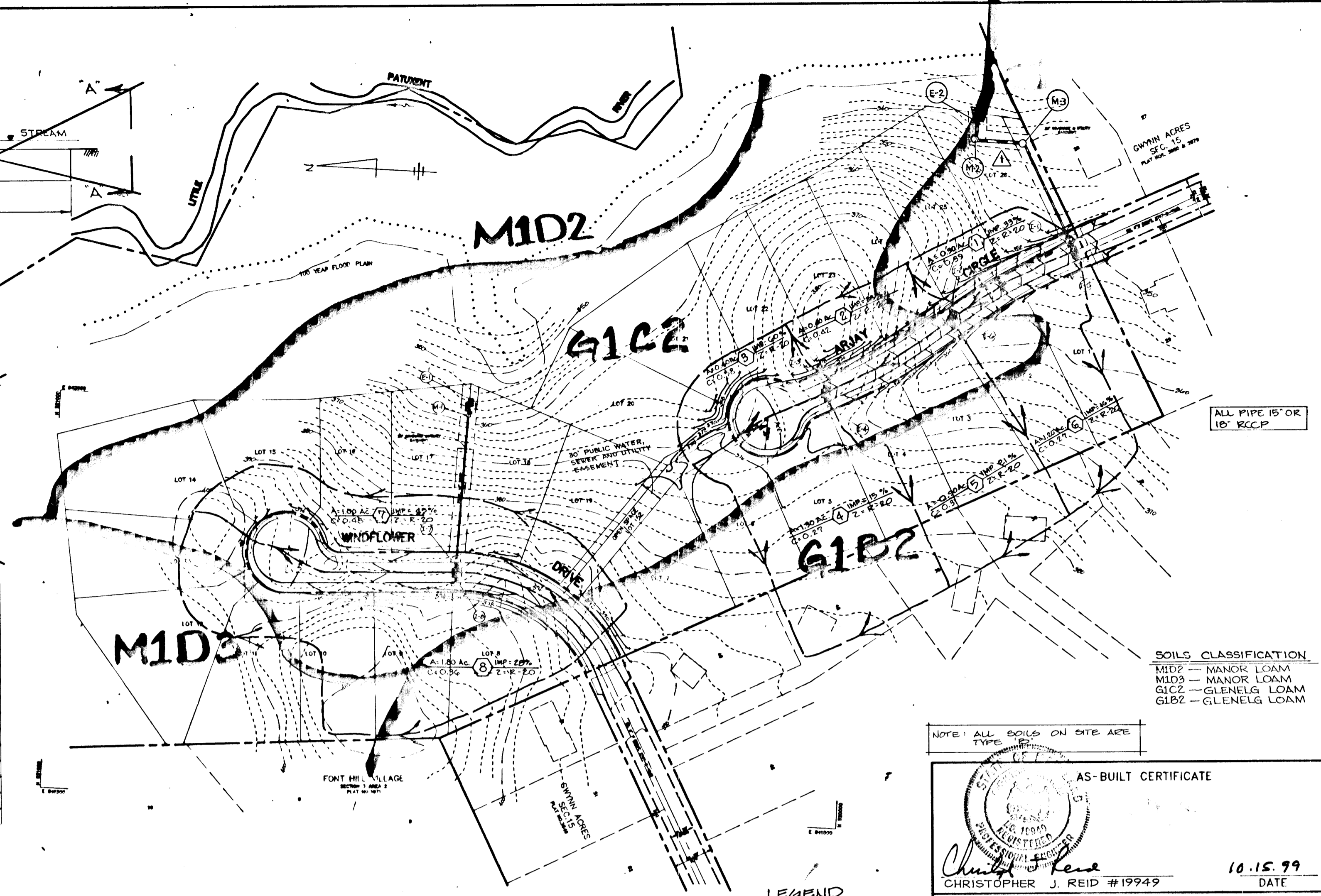
GABION DETAIL
N.T.S.

NOTE: GABIONS TO BE PLACED ON GEOTEXTILE (MIRAFI 600X) OR APPROVED EQUAL.

LETTER CODE	LENGTH	WIDTH	HEIGHT	No. CELLS	CAPACITY Y.O.	COLOR CODE
D	6'	3'	1'-6"	1.0		RED
E	9'	3'	1'-6"	3	1.5	GREEN
G	6'	3'	1'-0"	2	0.66	BLUE/RED
H	9'	3'	1'-0"	3	1.0	BLUE/YELLOW

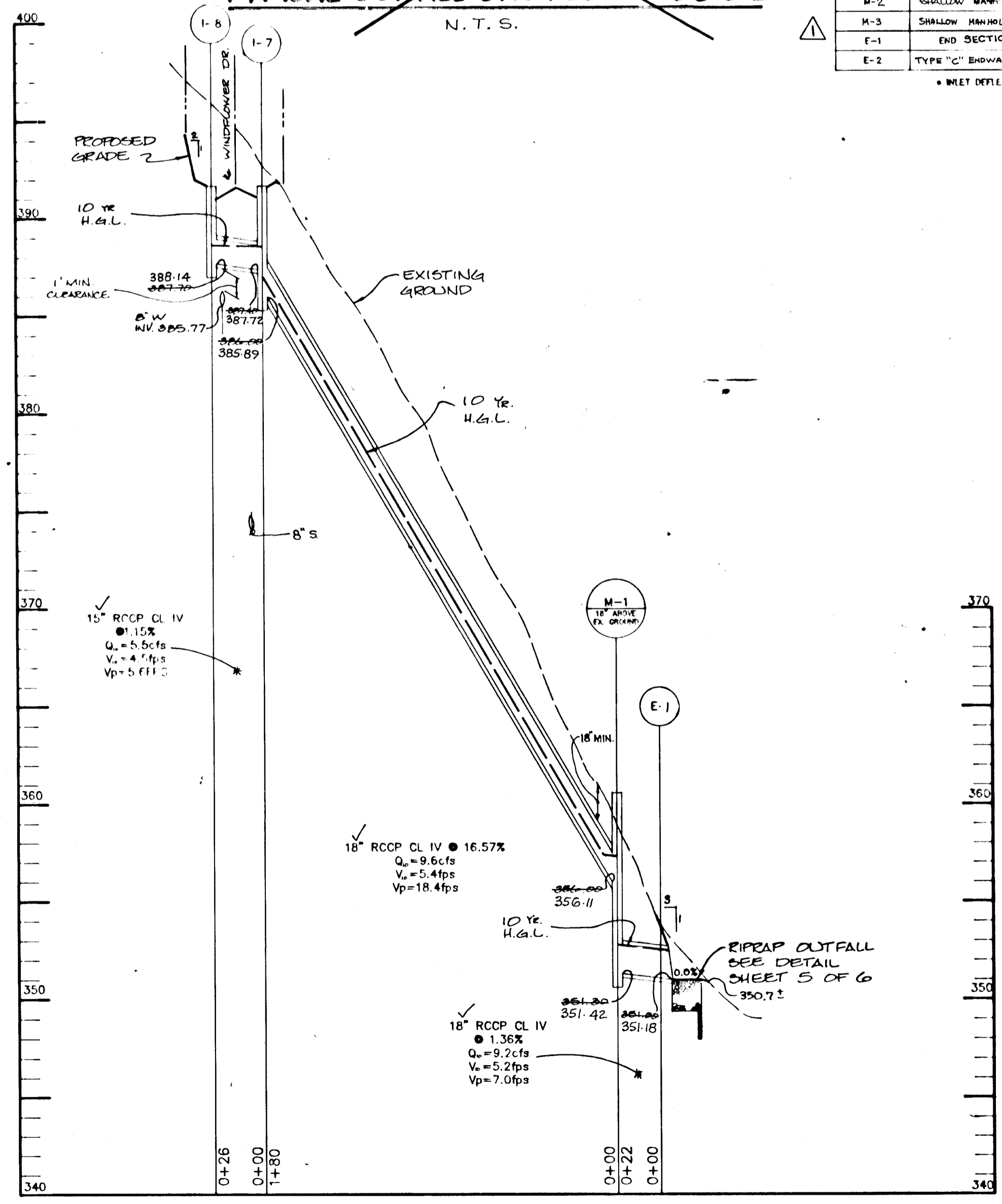
NUMBER	TYPE	LOCATION	INV. IN	INV. OUT	YR OF SERVS	REMARKS
I-1	A-10	ARJAY DRIVE STA 19+44.00	347.18	348.24	7	HO. CO. STD. DTL. ST. 4.02
I-2	A-10	ARJAY DRIVE STA 21+18.00	348.04	349.10	7	HO. CO. STD. DTL. ST. 4.02
I-3	A-10	ARJAY DRIVE STA 23+44.00	349.80	350.86	7	HO. CO. STD. DTL. ST. 4.02
I-4	A-10	ARJAY DRIVE STA 25+18.00	349.80	350.86	7	HO. CO. STD. DTL. ST. 4.02
I-5	A-10	ARJAY DRIVE STA 27+44.00	349.80	350.86	7	HO. CO. STD. DTL. ST. 4.02
I-6	A-10	ARJAY DRIVE STA 29+18.00	349.80	350.86	7	HO. CO. STD. DTL. ST. 4.02
I-7	A-10	ARJAY DRIVE STA 31+44.00	349.80	350.86	7	HO. CO. STD. DTL. ST. 4.02
I-8	A-10	ARJAY DRIVE STA 34+00.00	349.80	350.86	7	HO. CO. STD. DTL. ST. 4.02
M-1	SHALLOW MANHOLE	N 20+86.54	356.00	360.00		HO. CO. STD. DTL. G 5.12
M-2	SHALLOW MANHOLE	N 21+86.54	356.00	360.00		HO. CO. STD. DTL. G 5.12
M-3	SHALLOW MANHOLE	N 22+86.54	356.00	360.00		HO. CO. STD. DTL. G 5.12
E-1	END SECTION	N 23+86.54	356.00	360.00		HO. CO. STD. DTL. SD
E-2	TYPE "C" ENDWALL	N 24+86.54	356.00	360.00		HO. CO. STD. DTL. SD 5.21

* MEET DEFLECTORS TO BE USED HO. CO. STD. DTL. ST. 4.03

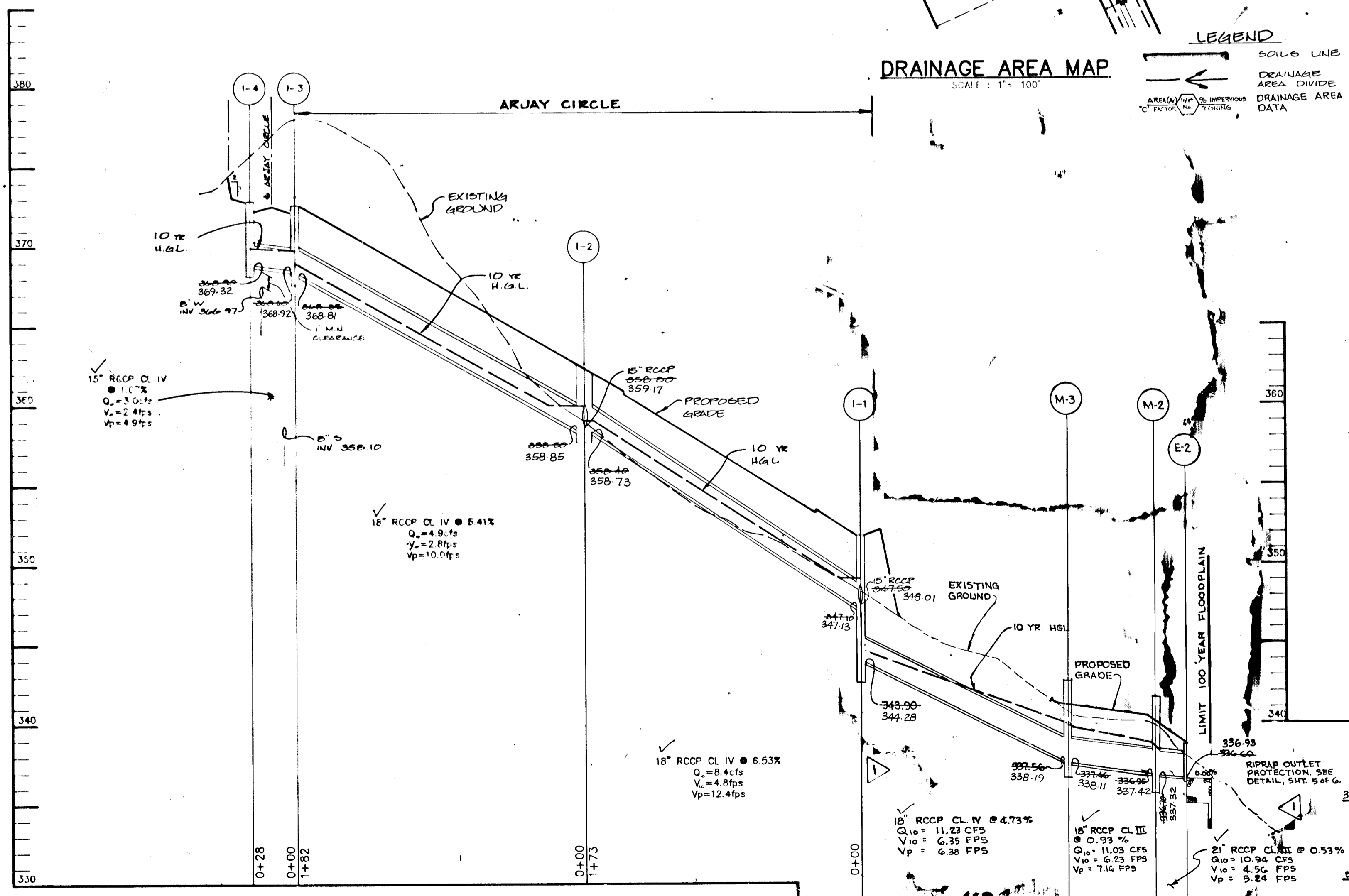


DRAINAGE AREA MAP
SCALE: 1"=100'

LEGEND
 SOLID LINE: DRAINAGE AREA DIVIDE
 DASHED LINE: DRAINAGE AREA DATA
 ARROW: DRAINAGE AREA DATA



TYPICAL OUTFALL DITCH SECTION @ E-2
N.T.S.



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

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

AS-BUILT CERTIFICATE

10.15.99 DATE

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING.

APPROVED: HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS

APPROVED: HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS

CHIEF, BUREAU OF HIGHWAYS

REVISIONS:

DATE	NO.	REVISION
1/10/96	1	REVISED SO OUTFALL @ LOT 50; STRUCTURE SCHEDULE ITEMS I-1, M3, M2 & E2; PROFILE FROM I-1 TO E2

OWNER / DEVELOPER: PAUL L. MILLER, P.O. BOX 307, 9058 CHEVROLET DRIVE, ELLICOTT CITY, MARYLAND 21043

PROJECT: LITTLE PATUXENT RIDGE SECTION 3

AREA: TAX MAP NO. 24 PARCEL 228, 2nd ELECTION DISTRICT, HOWARD COUNTY, MARYLAND

TITLE: STORMDRAIN PROFILE AND DRAINAGE AREA MAP

RIEMER MUEGGE & ASSOCIATES, INC.
Planners • Engineers • Surveyors
8818 Centre Park Drive • Suite 200 • Columbia, MD 21045
410-997-8800 FAX: 410-997-0282

9-12-95 DATE

DESIGNED BY: AAP
DRAWN BY: CM/RJC
PROJECT NO: 95H67311
DATE: SEPTEMBER, 12, 1995
SCALE: AS SHOWN
DRAWING NO. 6 OF 6

1643