

GENERAL NOTES

- The land included in this plan is zoned: RSC
- The area covered in this submission is located on Soils Map No. 33 for Howard County, Maryland.
- The area covered in this submission is located on Tax Map 47, Parcel 478.
- Street trees, as required in Section 16.131 of the subdivision regulations are the responsibility of the developer.
- Each driveway shall be Howard County Std. See Detail Sheet 7 of 7
- All roadways are public
- Any damage to County-owned right-of-way shall be corrected at the developer's expense
- Property shown record on plat Lots 1-22 "Irish Manor" a subdivision of all of Parcel 478 on Tax Map 47 Howard County, Maryland
- Materials and construction shall be in accordance with Howard County Road construction code
- Site Analysis:
  - No. Lots shown = 21
  - Total area of lots = 3.42 acres
  - Disturbed Area = 3.30 acres
  - Impervious Area = 1.20 acres
  - Green Area = 2.20 acres

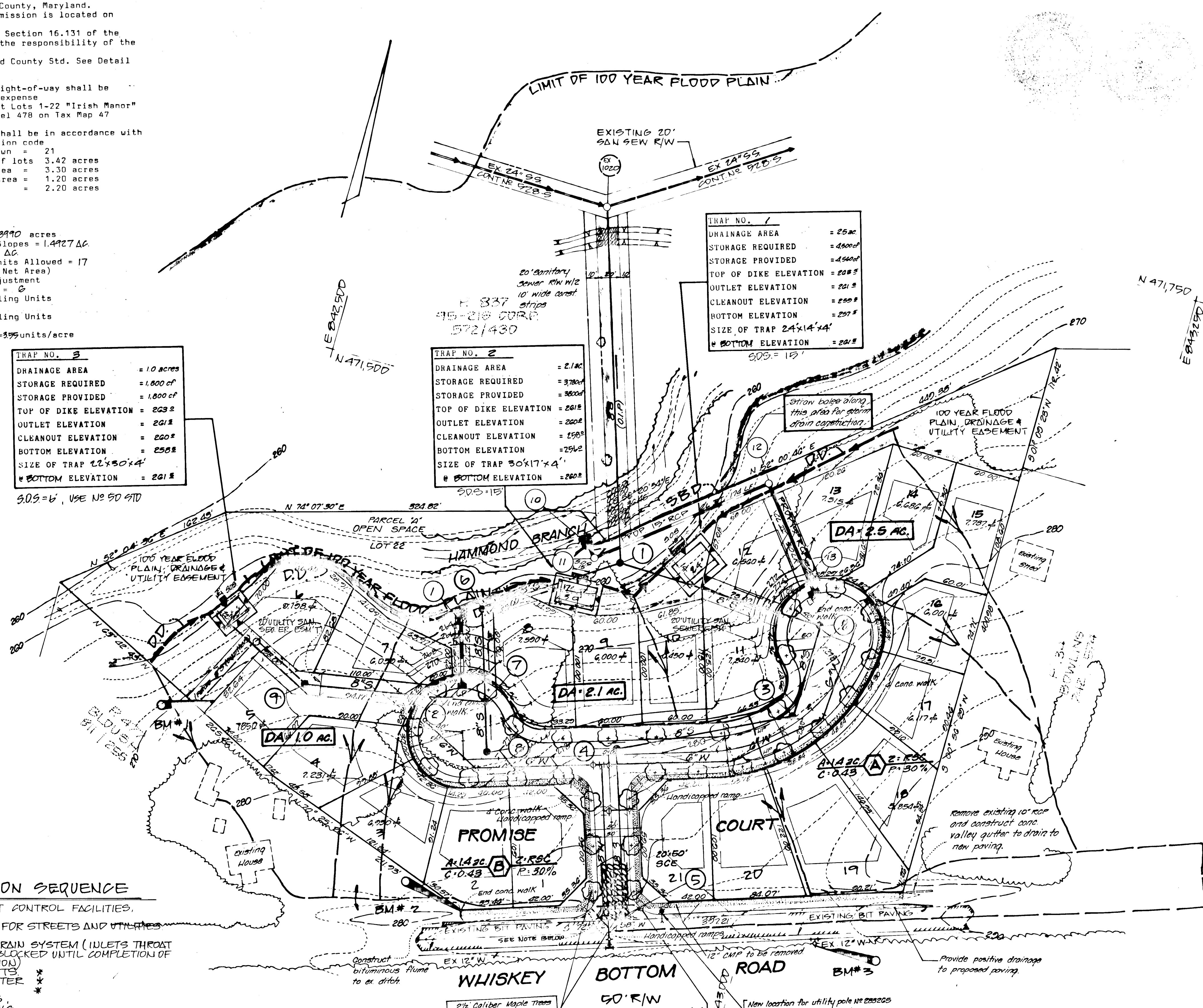
- Gross Area = 58990 acres
- Floodplain Steep Slopes = 1.4927 AC
- Net Area = 44085 AC
- No. of dwelling units Allowed = 17 (Based on Net Area)
- Floodplain lot adjustment Lot allowance = 6
- Total No. of dwelling units Allowed = 23
- Total no. of Dwelling Units Proposed = 21
- Density per acre = 395 units/acre

TRAP NO. 3	
DRAINAGE AREA	= 10 acres
STORAGE REQUIRED	= 1,800 cf
STORAGE PROVIDED	= 1,800 cf
TOP OF DIKE ELEVATION	= 263.5
OUTLET ELEVATION	= 260.5
CLEANOUT ELEVATION	= 260.5
BOTTOM ELEVATION	= 258.5
SIZE OF TRAP	22'x50'x4'
# BOTTOM ELEVATION	= 261.5

S.O.S. = 6, USE NO 90 STD

TRAP NO. 2	
DRAINAGE AREA	= 2.1 AC
STORAGE REQUIRED	= 378 cf
STORAGE PROVIDED	= 360 cf
TOP OF DIKE ELEVATION	= 261.5
OUTLET ELEVATION	= 260.5
CLEANOUT ELEVATION	= 259.5
BOTTOM ELEVATION	= 254.5
SIZE OF TRAP	30'x17'x4'
# BOTTOM ELEVATION	= 260.5

TRAP NO. 1	
DRAINAGE AREA	= 25 AC
STORAGE REQUIRED	= 4500 cf
STORAGE PROVIDED	= 4500 cf
TOP OF DIKE ELEVATION	= 263.5
OUTLET ELEVATION	= 261.5
CLEANOUT ELEVATION	= 259.5
BOTTOM ELEVATION	= 257.5
SIZE OF TRAP	24'x14'x4'
# BOTTOM ELEVATION	= 261.5



CONSTRUCTION SEQUENCE

- INSTALL SEDIMENT CONTROL FACILITIES.
- CLEAR SITE
- ROUGH GRADE SITE FOR STREETS AND UTILITIES
- INSTALL UTILITIES
- INSTALL STORM DRAIN SYSTEM (INLETS THROUGH OPENINGS TO BE BLOCKED UNTIL COMPLETION OF STREET CONSTRUCTION)
- FINE GRADE STREETS
- INSTALL CURB & GUTTER
- PAVE STREETS
- INSTALL SIDEWALKS
- INSTALL 20" R/W'S
- SEED AND MULCH AREAS OUTSIDE OF R/W'S
- HOUSE CONSTRUCTION (BY OTHERS)
- UPON APPROVAL OF SEDIMENT CONTROL INSPECTOR, REMOVE SEDIMENT CONTROL FACILITIES, SEED AND MULCH THESE AREAS.
- TEMPERATURE PERMITTING, SHOULD CONCRETE AND PAVING WORK NOT BE FINISHED BEFORE ONSET OF WINTER. ALL DISTURBED ARE TO BE MULCHED IN AN APPROVED FASHION AND MAINTAINED IN A NON EROSION MANNER UNTIL SPRING.

NOTE:  
INSTALL CMP UNDER S.C.E. TO MAINTAIN POSITIVE DRAINAGE ALONG WHISKEY BOTTOM ROAD DURING THIS CONSTRUCTION (Included in Item #1 of CONST. SEQ.)

SCALE: 1"=50'

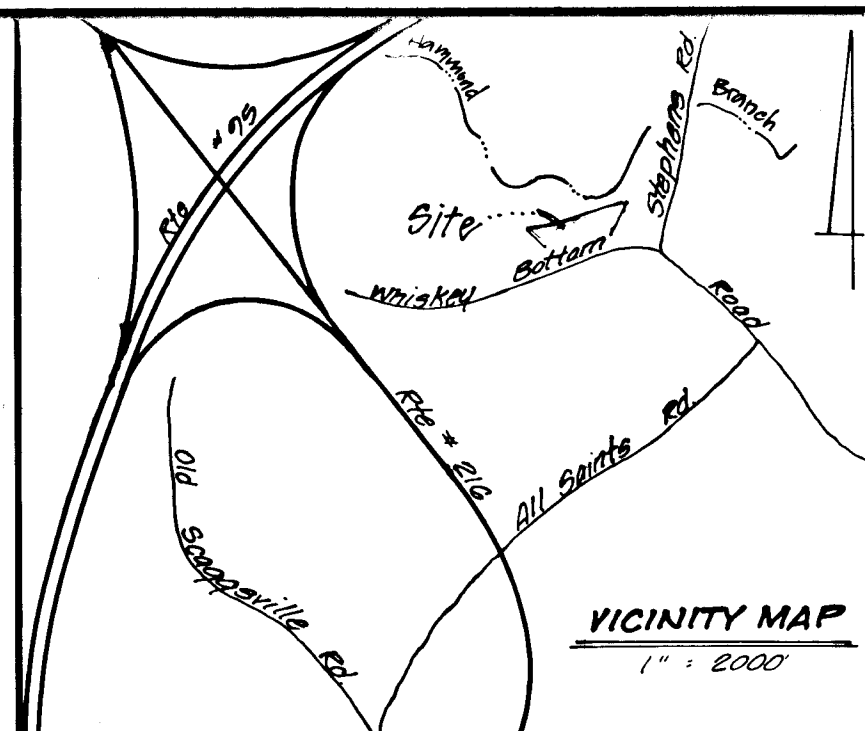
NOTE:  
THIS PLAN TO BE USED FOR CLEARING, GRADING & SED. CONTROLS

BENCH MARKS

- RAILROAD SPIKE IN 2" MAPLE TREE ELEVATION = 274.42
- CUT NAIL IN POLE ELEVATION = 280.15
- BONNET BOLT ON FIRE HYDRANT ELEVATION = 288.25

ADDRESS CHART

LOT NO	STREET	ADDRESS
1	PROMISE COURT	
2	"	
3	"	
4	"	
5	"	
6	"	
7	"	
8	"	
9	"	
10	"	
11	"	
12	"	
13	"	
14	"	
15	"	
16	"	
17	"	
18	"	
19	"	
20	"	
21	"	



I CERTIFY THAT THIS PLAN OF DEVELOPMENT & PLAN FOR EROSION & SEDIMENT CONTROL REPRESENTS A PRACTICAL & WORKABLE PLAN BASED ON MY PERSONAL KNOWLEDGE OF THE SITE CONDITIONS & THAT IT WAS PREPARED IN ACCORDANCE WITH THE REQUIREMENTS OF THE HOWARD SOIL CONSERVATION DISTRICT.  
DATE 7-9-84  
E.L. ROGERS Md. Reg. #12114

SURVEYOR'S CERTIFICATE  
I CERTIFY THAT THIS PLAN OF DEVELOPMENT & PLAN FOR EROSION & SEDIMENT CONTROL REPRESENTS A PRACTICAL & WORKABLE PLAN BASED ON MY PERSONAL KNOWLEDGE OF THE SITE CONDITIONS & THAT IT WAS PREPARED IN ACCORDANCE WITH THE REQUIREMENTS OF THE HOWARD SOIL CONSERVATION DISTRICT.  
DATE 7-9-84  
JEFFERSON D. LAURENCE P.L.S. # 5216

OWNER'S CERTIFICATE  
I CERTIFY THAT ALL DEVELOPMENT AND/OR CONSTRUCTION WILL BE DONE ACCORDING TO THIS PLAN OF DEVELOPMENT & THAT ANY RESPONSIBLE PERSONNEL INVOLVED IN THE CONSTRUCTION PROJECT WILL HAVE A CERTIFICATE OF ATTENDANCE AT A DEPARTMENT OF NATURAL RESOURCES APPROVED TRAINING PROGRAM FOR THE CONTROL OF SEDIMENT & EROSION BEFORE BEGINNING THE PROJECT.  
DATE 7-9-84  
OWNER

APPROVED: FOR PUBLIC WATER, PUBLIC SEWER & PUBLIC STORM DRAINAGE SYSTEMS & ROADS.  
HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS

DATE \_\_\_\_\_ DIRECTOR  
DATE 7-18-84  
CHIEF, BUREAU OF ENGINEERING

APPROVED: FOR PUBLIC WATER & PUBLIC SEWER SYSTEMS.  
HOWARD COUNTY HEALTH DEPARTMENT

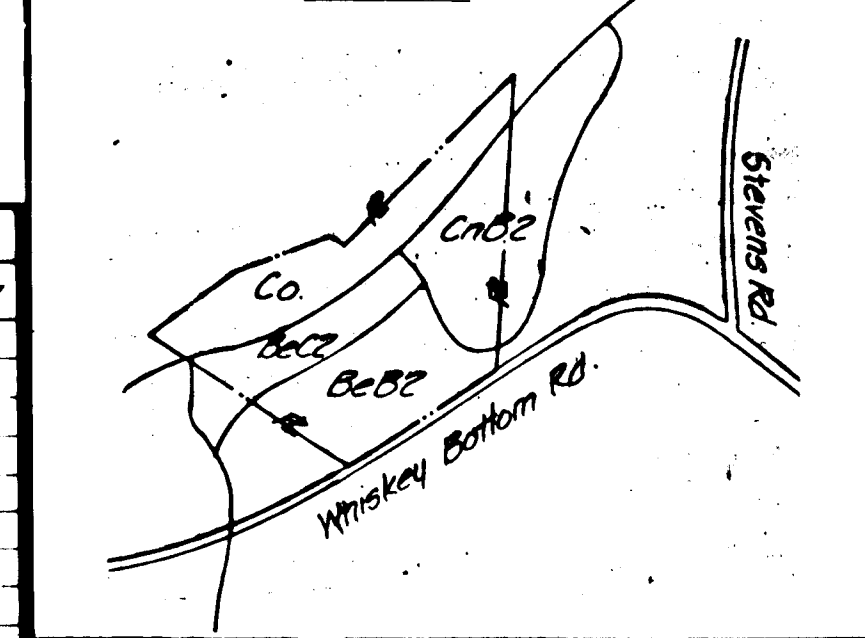
DATE \_\_\_\_\_ COUNTY HEALTH OFFICER

APPROVED: HOWARD COUNTY OFFICE OF PLANNING & ZONING ADMINISTRATION

DATE 7-11-84  
CHIEF, DIVISION OF LAND DEVELOPMENT AND ZONING ADMINISTRATION

REVIEWED FOR HOWARD SOIL CONSERVATION DISTRICT AND MEETS TECHNICAL REQUIREMENTS.  
DATE 7/11/84  
U.S. SOIL CONSERVATION SERVICE

THIS PLAN IS APPROVED FOR SOIL EROSION & SEDIMENT CONTROL BY THE HOWARD SOIL CONSERVATION DISTRICT.  
DATE 7/11/84  
HOWARD SOIL CONSERVATION DISTRICT



SEWER CODE	602	SEWER CODE	73A0000
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Owner:  
NEWBURN DEVELOPMENT CORPORATION  
5570 STERRETT PLACE  
SUITE 201  
COLUMBIA, MD. 21044  
BALT. 277-3015 WASH. 576-5877

NO.	REVISIONS	DATE
1.	Revised 7-17-84 relocated light.	7-17-84

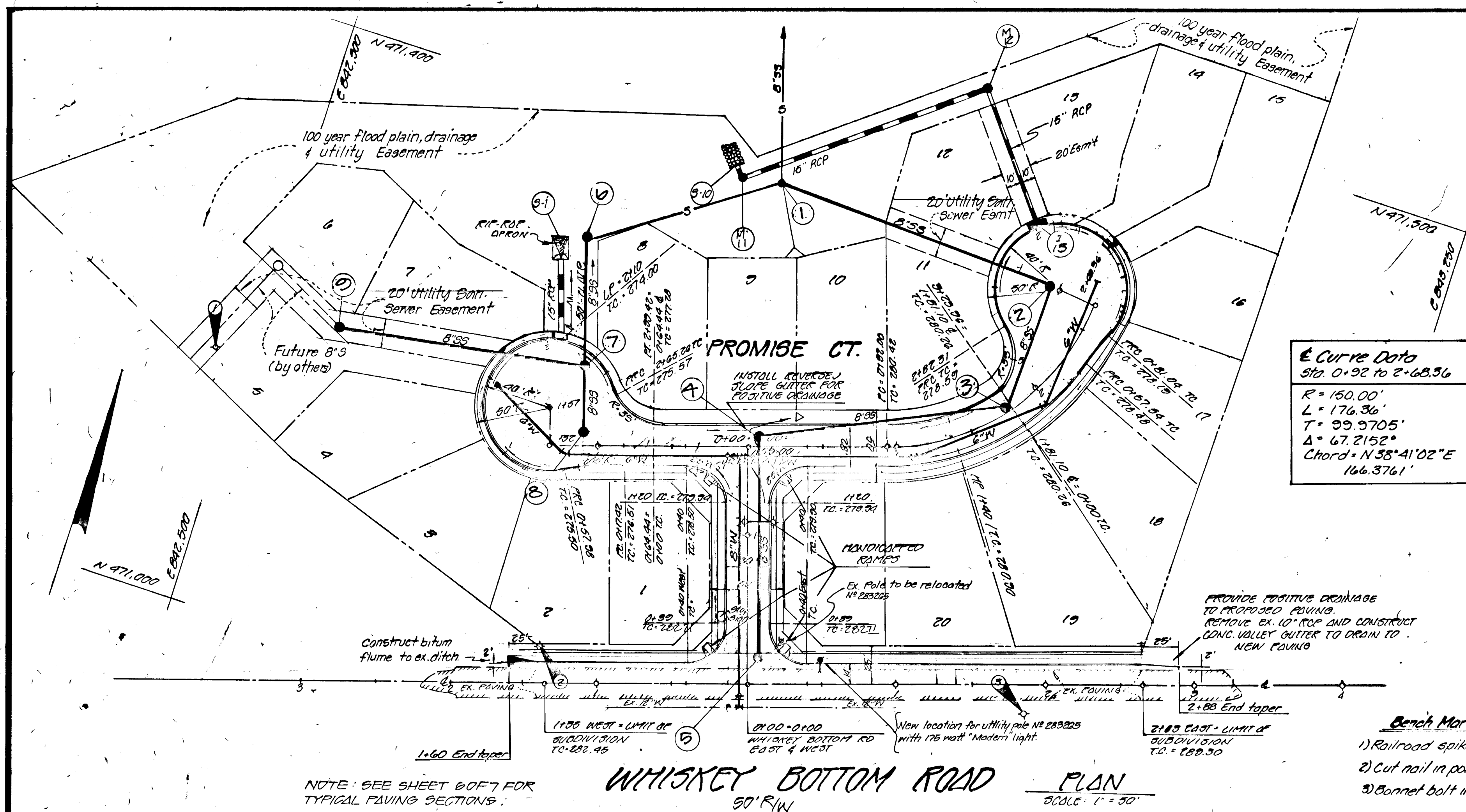


DEVELOPMENT CONSULTANTS GROUP, INC.

12408 ROUTE 108  
CLARKSVILLE, MD 21029  
301-596-9080 301-988-9830

SITE DEVELOPMENT AND SEDIMENT CONTROL PLAN  
"HAMMONDS PROMISE"  
Gulfport Election District  
Howard County, Maryland  
Tax Map 47 Parcel 478

DATE June 1984  
DRAWN Bill  
CHECKED Bill  
SCALE As shown  
Sheet 1 of 6  
PROJECT NO. 38-01



**Surveyor's Certificate**  
I certify that this plan of development & plan for erosion & sediment control represents a practical & workable plan based on my personal knowledge of the site conditions & that it was prepared in accordance with the requirements of the Howard Soil Conservation District.  
Date: 6/16/84  
Edward J. Lawrence  
Md. P.R.S.#5810

**OWNER'S CERTIFICATE**  
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 of a Department of Natural Resources Approved Training Program for the Control of Sediment and Erosion before beginning the project.  
Date: 2/24/1984  
Carol P. Caswell  
Owner

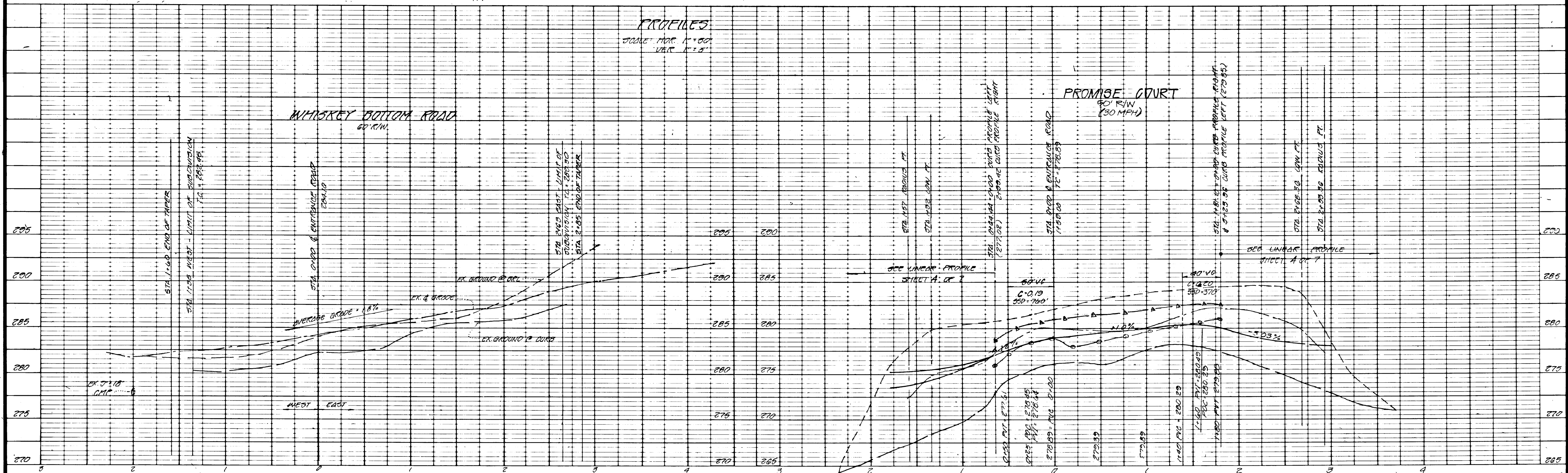
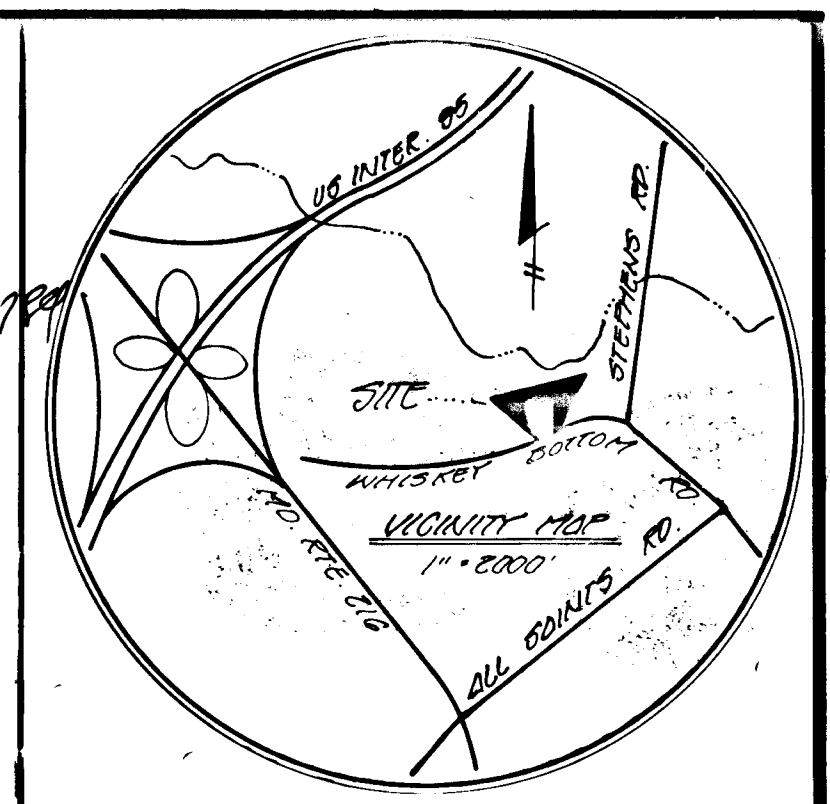
APPROVED FOR PUBLIC WATER, PUBLIC SEWER & PUBLIC STORM DRAINAGE SYSTEMS & ROADS.  
HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS  
DATE: 7-18-84  
Director: William E. Ray  
CHIEF, BUREAU OF ENGINEERING

APPROVED FOR PUBLIC WATER & PUBLIC SEWAGE SYSTEMS  
HOWARD COUNTY HEALTH DEPARTMENT  
DATE: 7-11-84  
County Health Officer: Stephen M. Hahn  
CHIEF, DIVISION OF LAND DEVELOPMENT AND ZONING ADMINISTRATION

APPROVED: HOWARD COUNTY OFFICE OF PLANNING & ZONING  
DATE: 7-11-84  
Signature: Stephen M. Hahn  
HOWARD COUNTY OFFICE OF PLANNING & ZONING

REVIEWED FOR HOWARD SOIL CONSERVATION DISTRICT AND MEETS TECHNICAL REQUIREMENTS.  
DATE: 7-11-84  
Signature: James M. Stiles  
U.S. SOIL CONSERVATION SERVICE

THIS PLAN IS APPROVED FOR SOIL EROSION & SEDIMENT CONTROL BY THE HOWARD SOIL CONSERVATION DISTRICT.  
DATE: 7/11/84  
Signature: Stephen M. Hahn  
HOWARD SOIL CONSERVATION DISTRICT



#1067  
Owner: NENORIN DEVELOPMENT CORPORATION  
9570 STERRETT PLACE  
SUITE 201  
COLUMBIA, MD 21044  
CALL: 947-5815 FAX: 596-3871

NO.	REVISIONS	DATE
1	Revised 7-12-84 relocated light	7-12-84

**DEVELOPMENT CONSULTANTS GROUP, INC.**  
12408 Maryland Route 108  
Clocksville, Maryland  
301-596-7080 21089

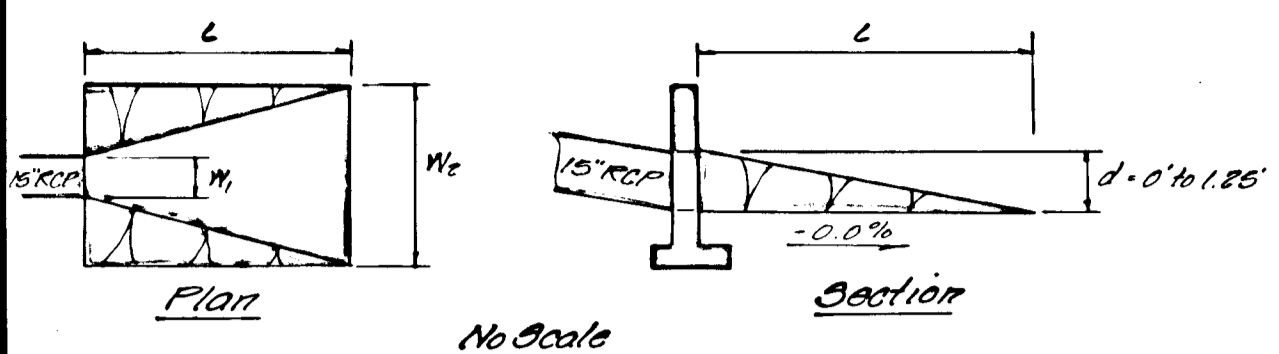
PLAN & PROFILE  
**HAMMONDS PROMISE**  
616 ELECTION DISTRICT  
HOWARD COUNTY, MARYLAND  
TAX MAP 47, PARCEL 479

DATE: June 1984  
DRAWN: FAS  
CHECKED: ML3  
SCALE: AS SHOWN  
PROJECT NO.: 83-01

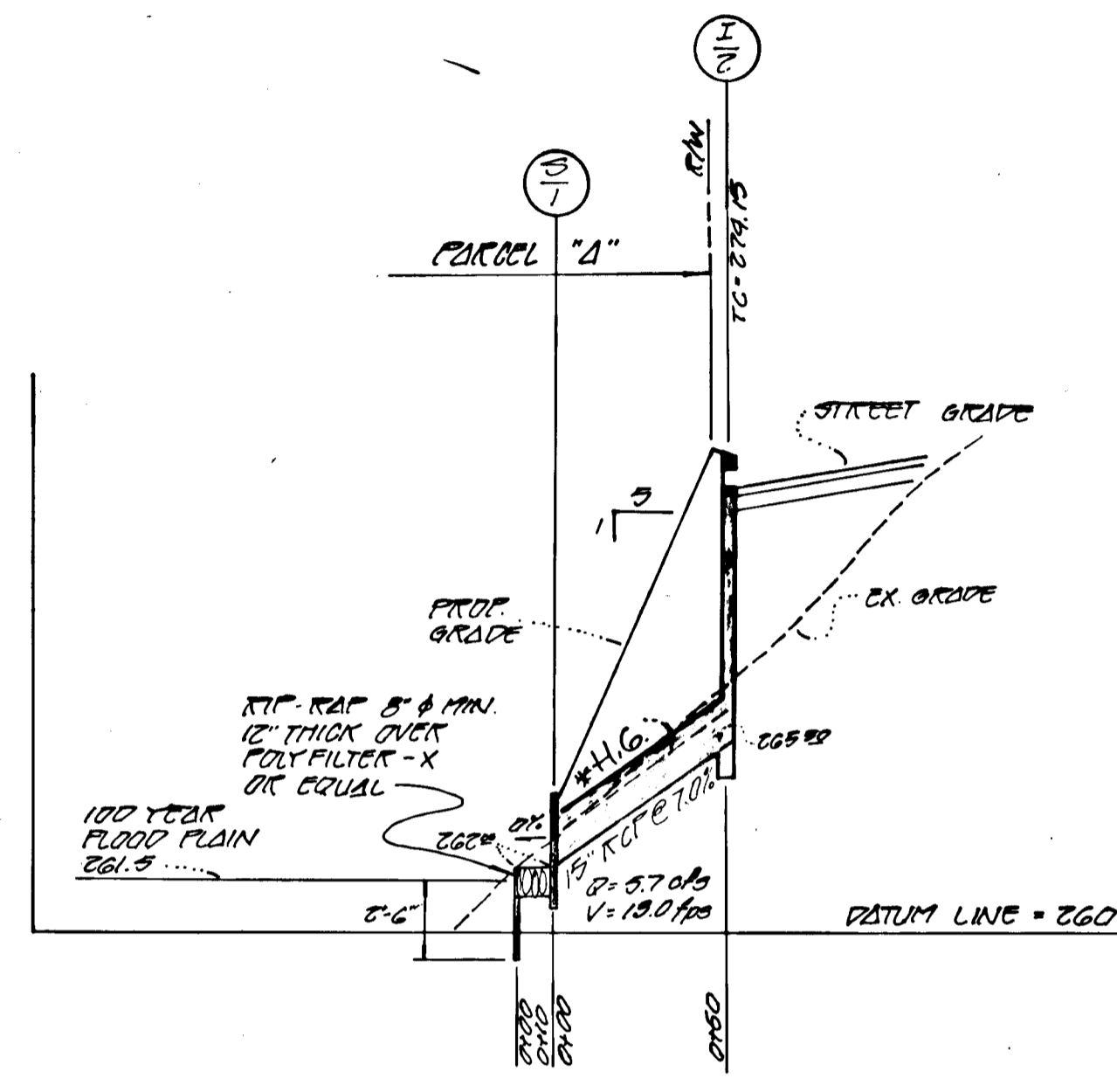
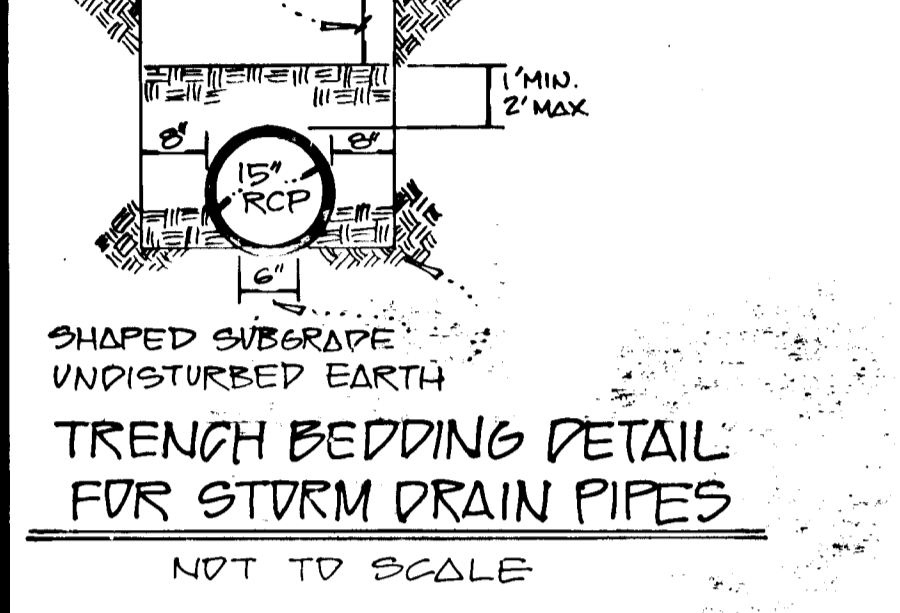
Sheet 2 of 6

F-84-34

**Riprap Outlet**  
 No. Co. 3' x 4' 30" - 0.12  
 @ 3-10  
 depth 1.25' to 0'  
 width 14.125' to 14.0'  
 length 1.10'



WELL COMPACTED BACKFILL  
 PLACED IN 2" LAYERS (12"  
 LAYERS OUTSIDE PUBLIC R/W)

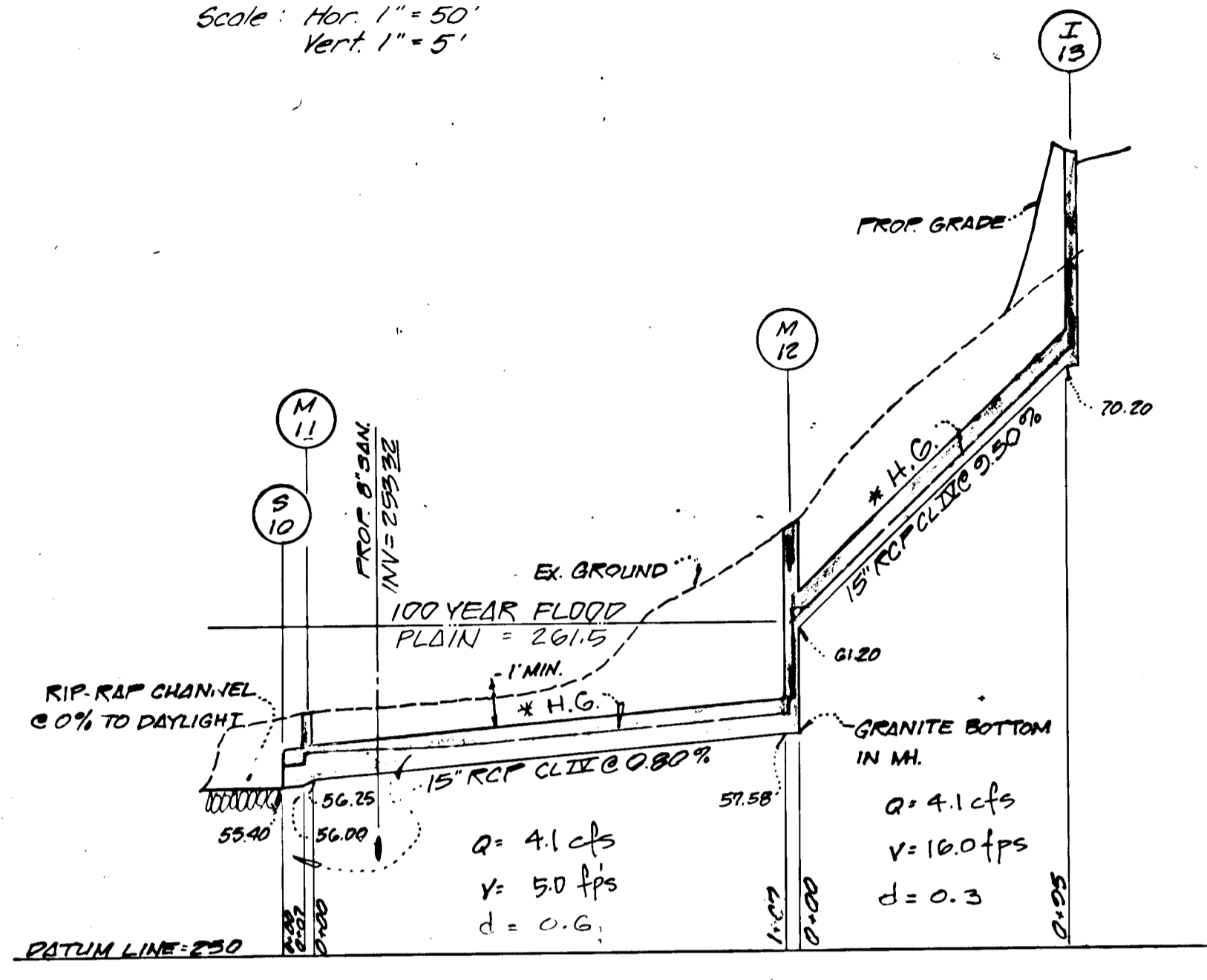


STRUCTURE SCHEDULE	
J-1)	No. Co. 3' x 4' "C" Endwall - Dia. = 15", Inv. = 262.00 30-5.21
I-2)	No. Co. 3' x 4' "A-5" Inlet - T.C. = 274.00, Inv. = 265.00 30-4.01 W = 2'-0"
M-14)	No. Co. 3' x 4' "B" M1 Top = 278", Inv. In = 273", Inv. Out = 275" 50-3.05
I-13)	No. Co. 3' x 4' "A-5" Inlet - T.C. = 277.00, Inv. = 274.00 30-4.01 W = 2'-0"
J-10)	No. Co. 3' x 4' "C" Endwall - Dia. = 15", Inv. = 260.00 30-2.81
M-12)	No. Co. 3' x 4' "B" M1 Top = 278", Inv. In = 273", Inv. Out = 275" 50-3.05

PIPE SCHEDULE	
15" RCP Class II 3' x 4' LF	

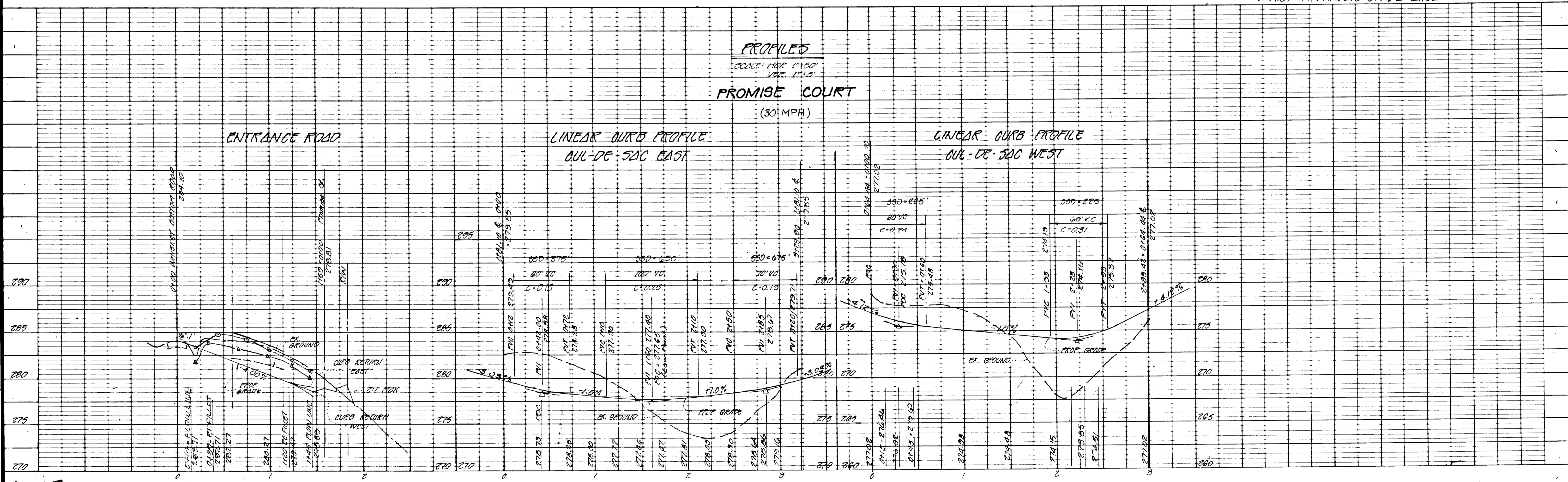
**Storm Drain Profiles**  
 Scale: Hor. 1" = 50'  
 Vert. 1" = 5'



**Surveyor/Engineer's Certificate**  
 I certify that this plan of development, a plan for erosion & sediment control represents a practical & workable plan based on my personal knowledge of the site conditions & that it was prepared in accordance with the requirements of the Howard Soil Conservation District.  
 Date: 7/11/84  
 Signature: [Signature]  
 U.S. SOIL CONSERVATION SERVICE  
 THIS PLAN IS APPROVED FOR SOIL EROSION & SEDIMENT CONTROL BY THE HOWARD SOIL CONSERVATION DISTRICT.  
 Date: 7/11/84  
 Signature: [Signature]  
 HOWARD SOIL CONSERVATION DISTRICT

**OWNER'S CERTIFICATE**  
 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 of a Department of Natural Resources Approved Training Program for the Control of Sediment and Erosion before beginning the project.  
 Date: 2/24/1984  
 Signature: [Signature]  
 Owner: [Name]

APPROVED: FOR PUBLIC WATER, PUBLIC SEWER & PUBLIC STORM DRAINAGE SYSTEMS & ROADS.  
 HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS  
 DATE: [Date]  
 Signature: [Signature]  
 DIRECTOR  
 APPROVED: FOR PUBLIC WATER & PUBLIC SEWAGE SYSTEMS  
 HOWARD COUNTY HEALTH DEPARTMENT  
 DATE: [Date]  
 Signature: [Signature]  
 COUNTY HEALTH OFFICER  
 APPROVED: HOWARD COUNTY OFFICE OF PLANNING & ZONING  
 DATE: [Date]  
 Signature: [Signature]  
 CHIEF, DIVISION OF LAND DEVELOPMENT AND ZONING ADMINISTRATION



#1067  
 Owner: [Name]  
 5570 STEWETT PLACE  
 SUITE 201  
 COLUMBIA, MD. 21044  
 BALT: 977-3815 WASH: 594-5877

NO.	REVISIONS	DATE

**DEVELOPMENT CONSULTANTS GROUP, INC.**  
 12408 MARYLAND ROUTE 108  
 CLARKSVILLE, MARYLAND  
 301-596-3080 21029

**PROFILES "HAMMONDS PROMISE"**  
 6th ELECTION DISTRICT  
 HOWARD COUNTY, MARYLAND  
 TAX MAP 47 PARCEL 479

DATE	SHEET
June 1984	3 of 6
DRAWN FAS	
CHECKED M.C.S.	
SCALE 1" = 50'	PROJECT NO. 88-01
DATE 6/1/84	

F-84-34

**Surveyor/Engineer's Certificate**  
 I certify that this plan of development & plan for erosion & sediment control represents a practical & workable plan based on my personal knowledge of the site conditions & that it was prepared in accordance with the requirements of the Maryland Soil Conservation District.

*Michael D. Hines*  
 Surveyor  
 No. P.L.S. #5812

**OWNER'S CERTIFICATE**  
 I/We certify that all development and construction will be done according to this plan and that any reasonable personnel involved in the construction project will have a Certificate of Attendance at a Department of Natural Resources Approved Training Program for the control of sediment and erosion before beginning the project.

*Carol M. Russell* 2/24/1984  
 Date

APPROVED: FOR PUBLIC WATER, PUBLIC SEWER & PUBLIC STORM DRAINAGE SYSTEMS & ROADS.  
 HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS

DATE: \_\_\_\_\_  
 DIRECTOR

DATE: *7-18-84*  
 CHIEF, BUREAU OF ENGINEERING

APPROVED: FOR PUBLIC WATER & PUBLIC SEWAGE SYSTEMS  
 HOWARD COUNTY HEALTH DEPARTMENT

DATE: \_\_\_\_\_  
 COUNTY HEALTH OFFICER

APPROVED: HOWARD COUNTY OFFICE OF PLANNING & ZONING

DATE: \_\_\_\_\_

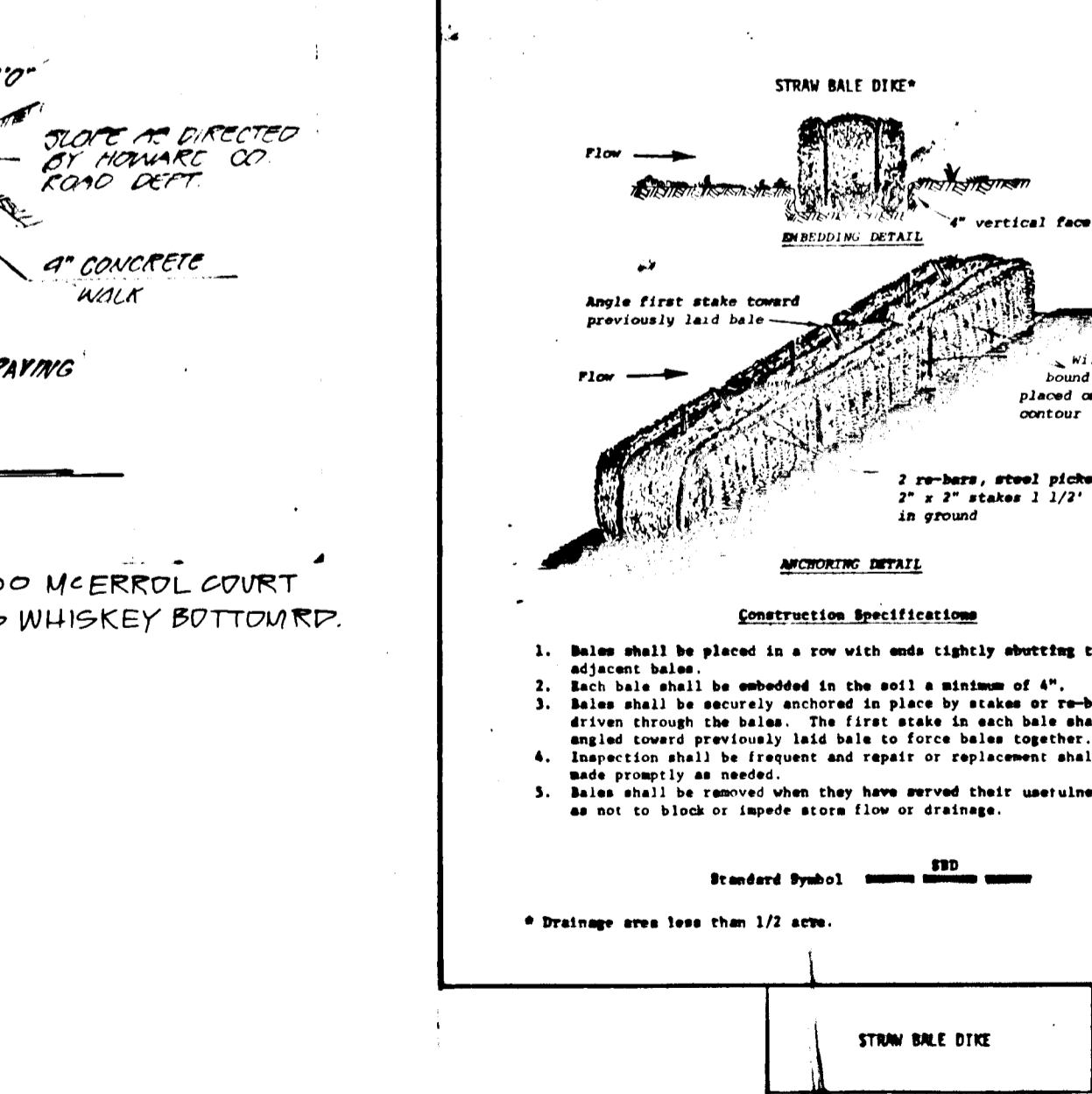
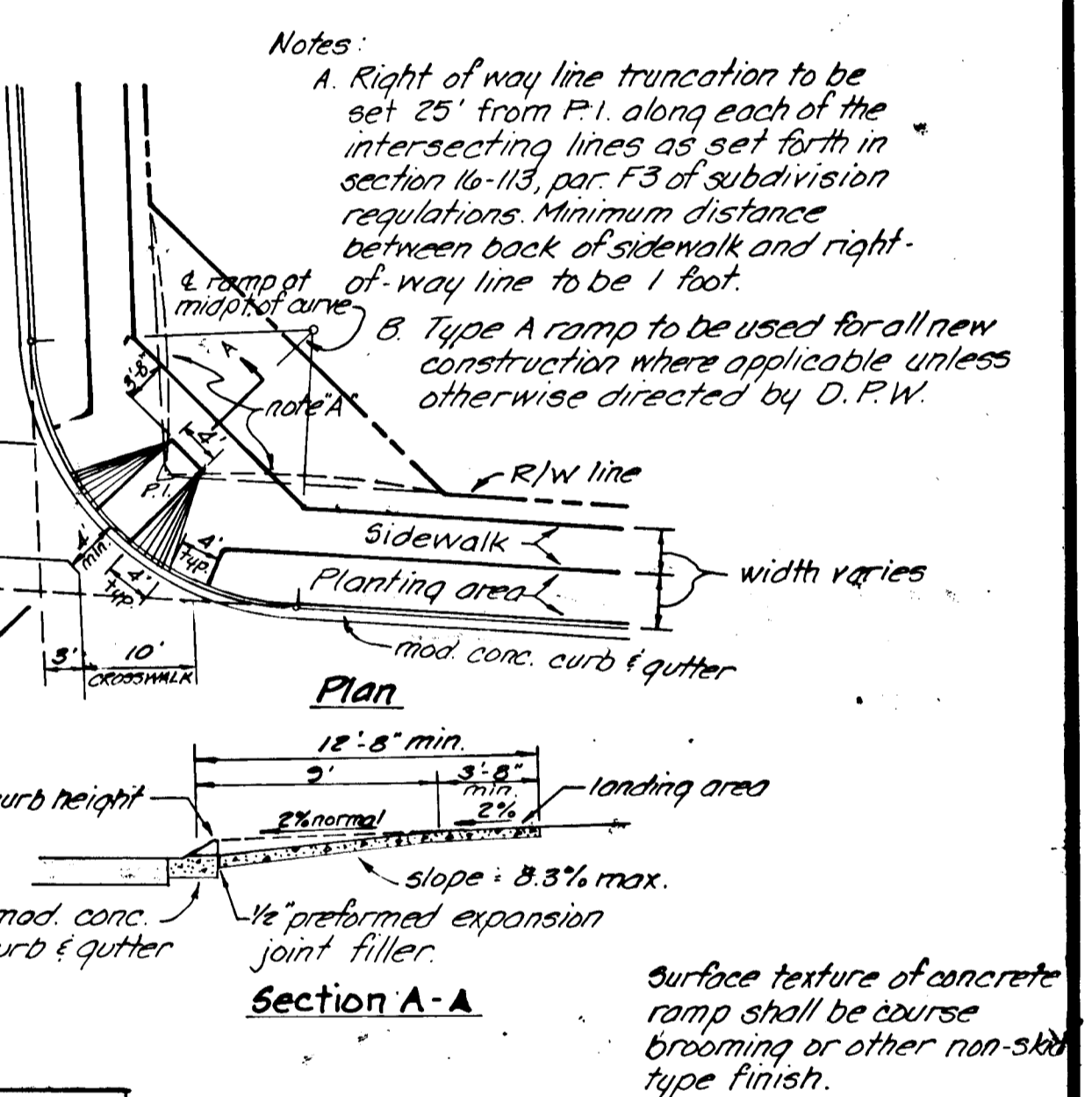
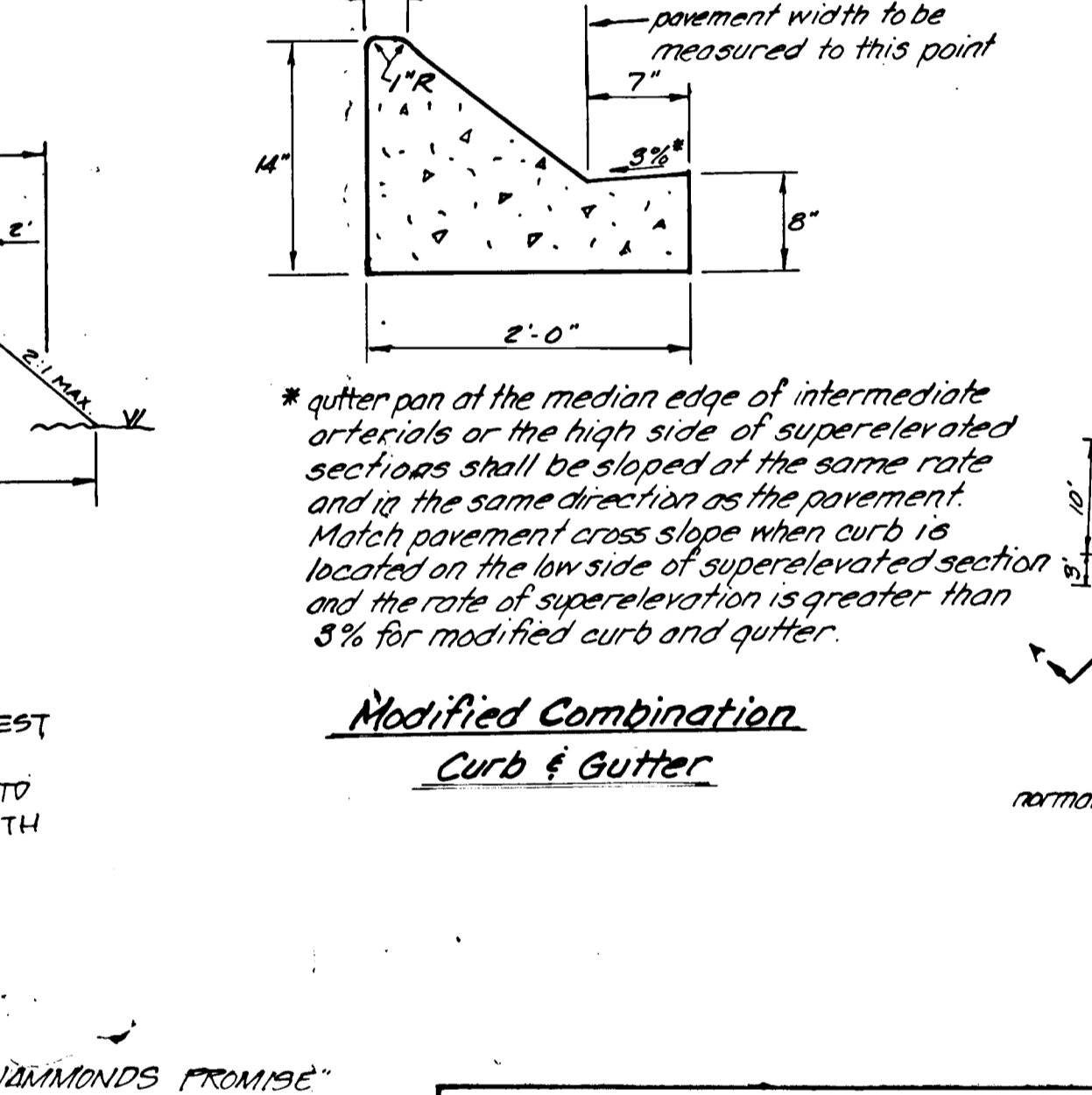
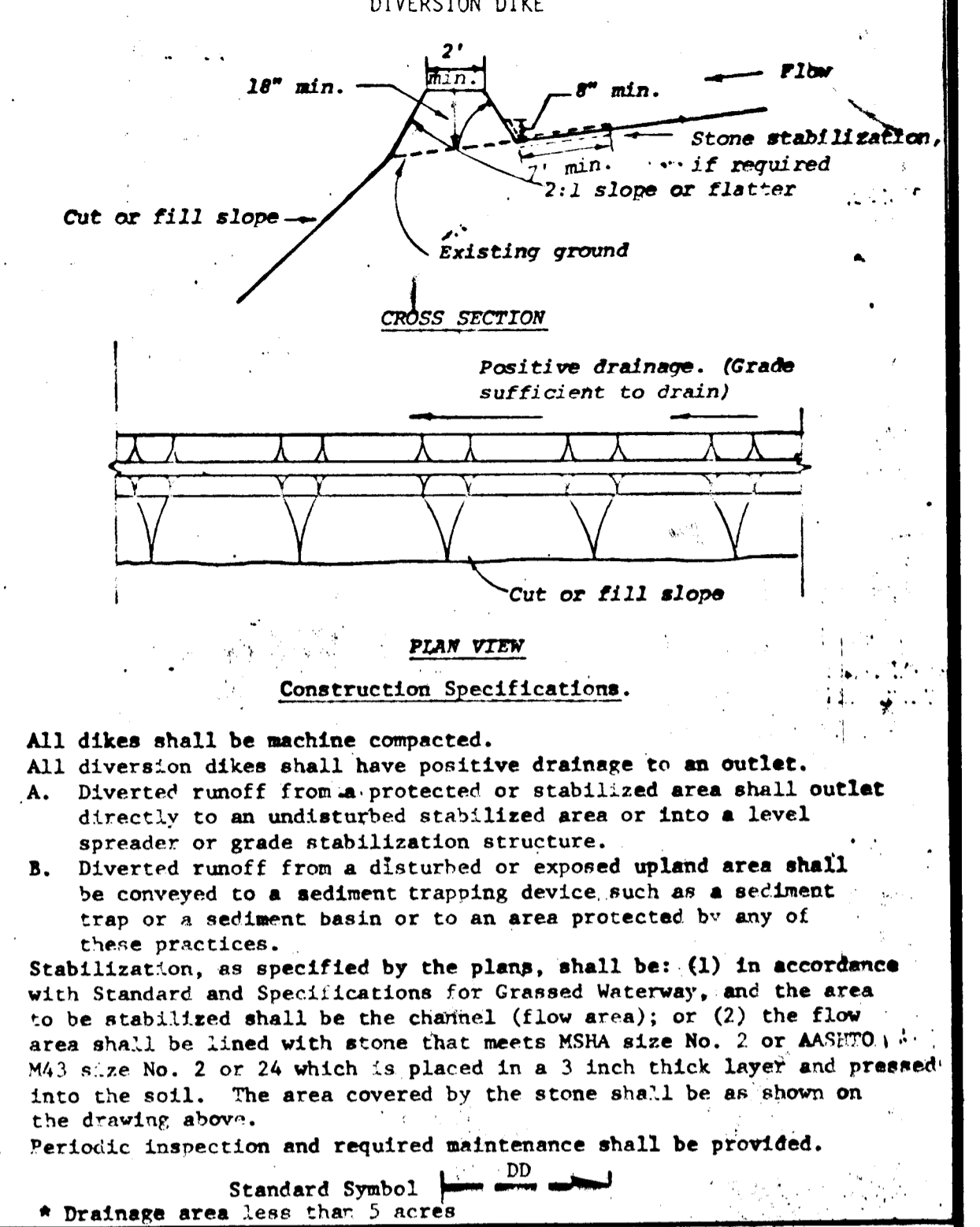
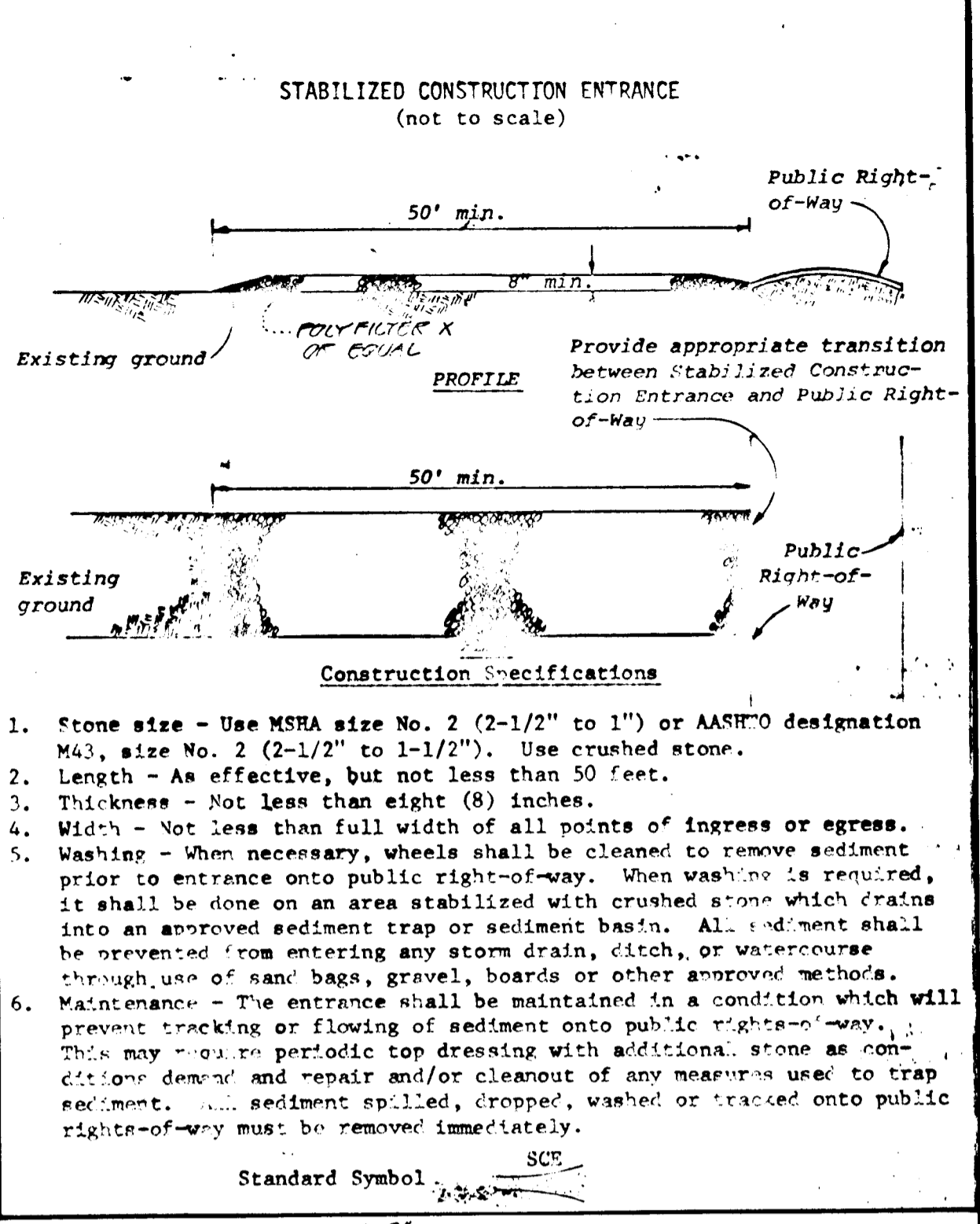
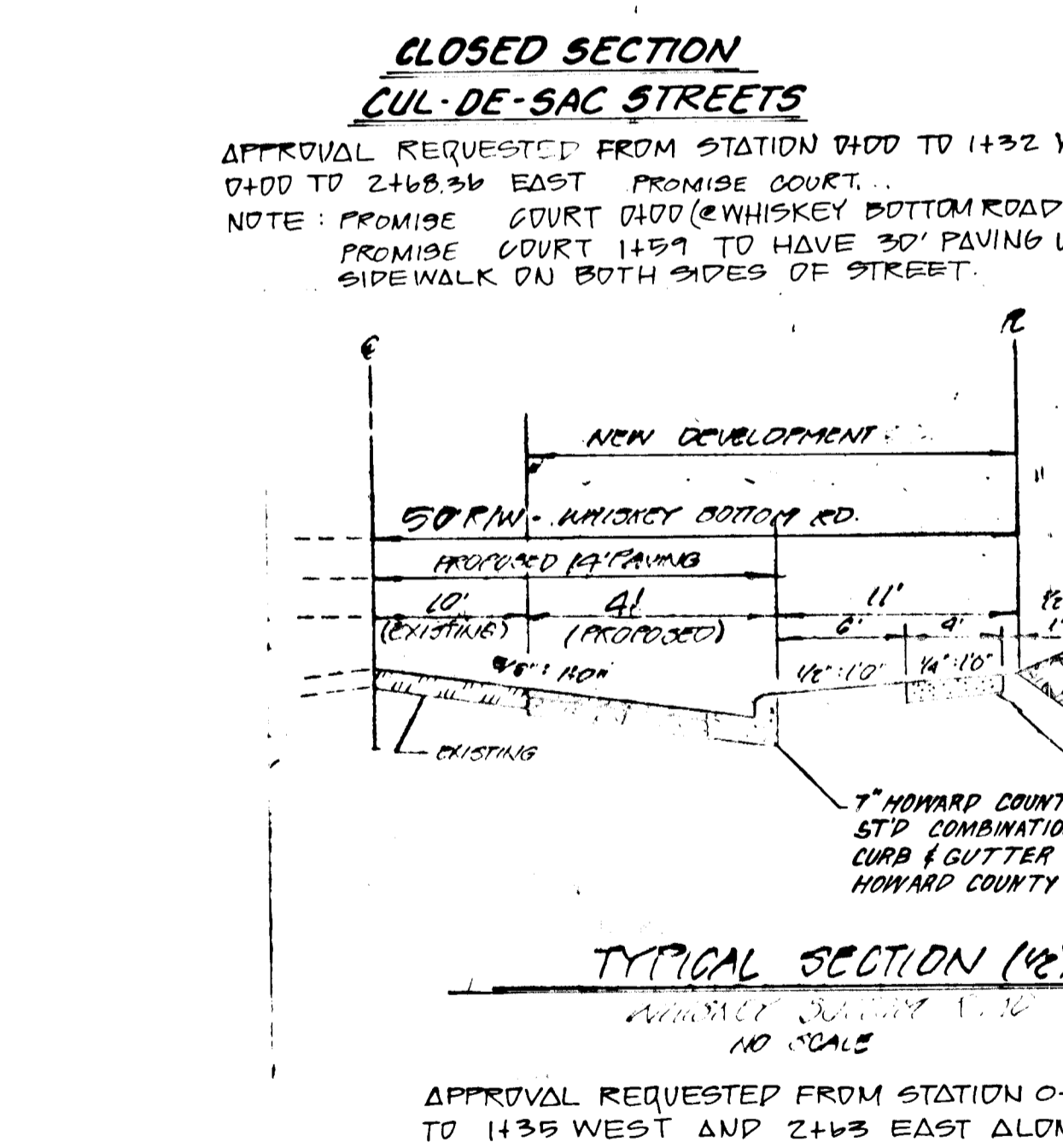
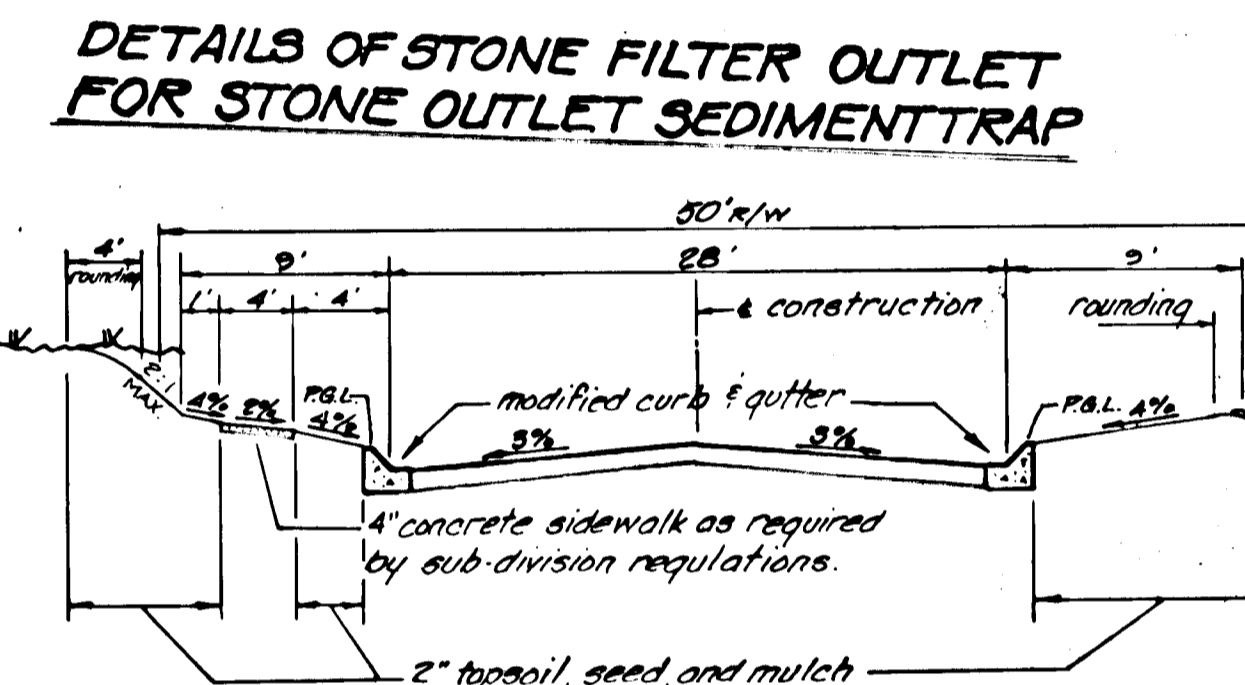
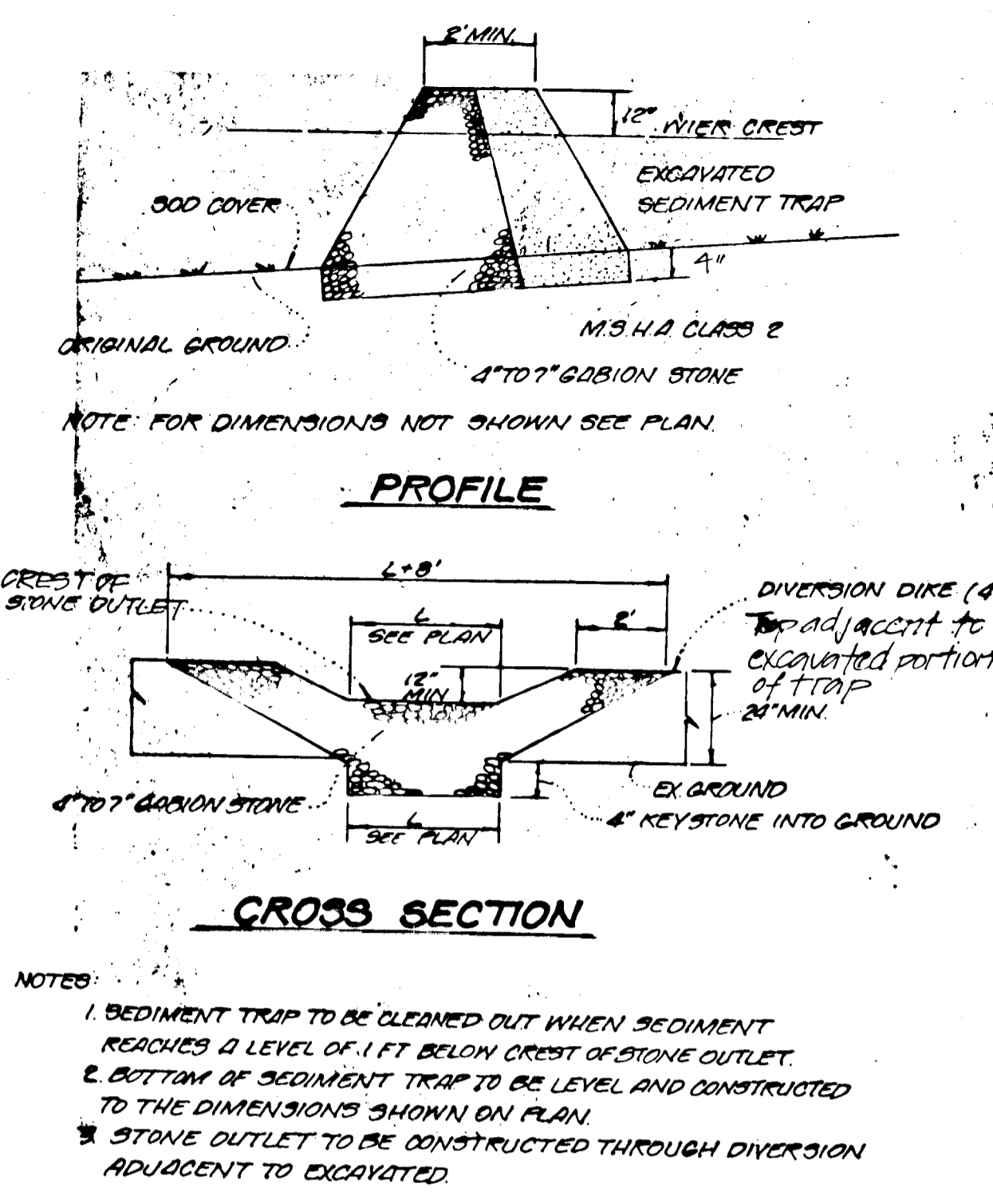
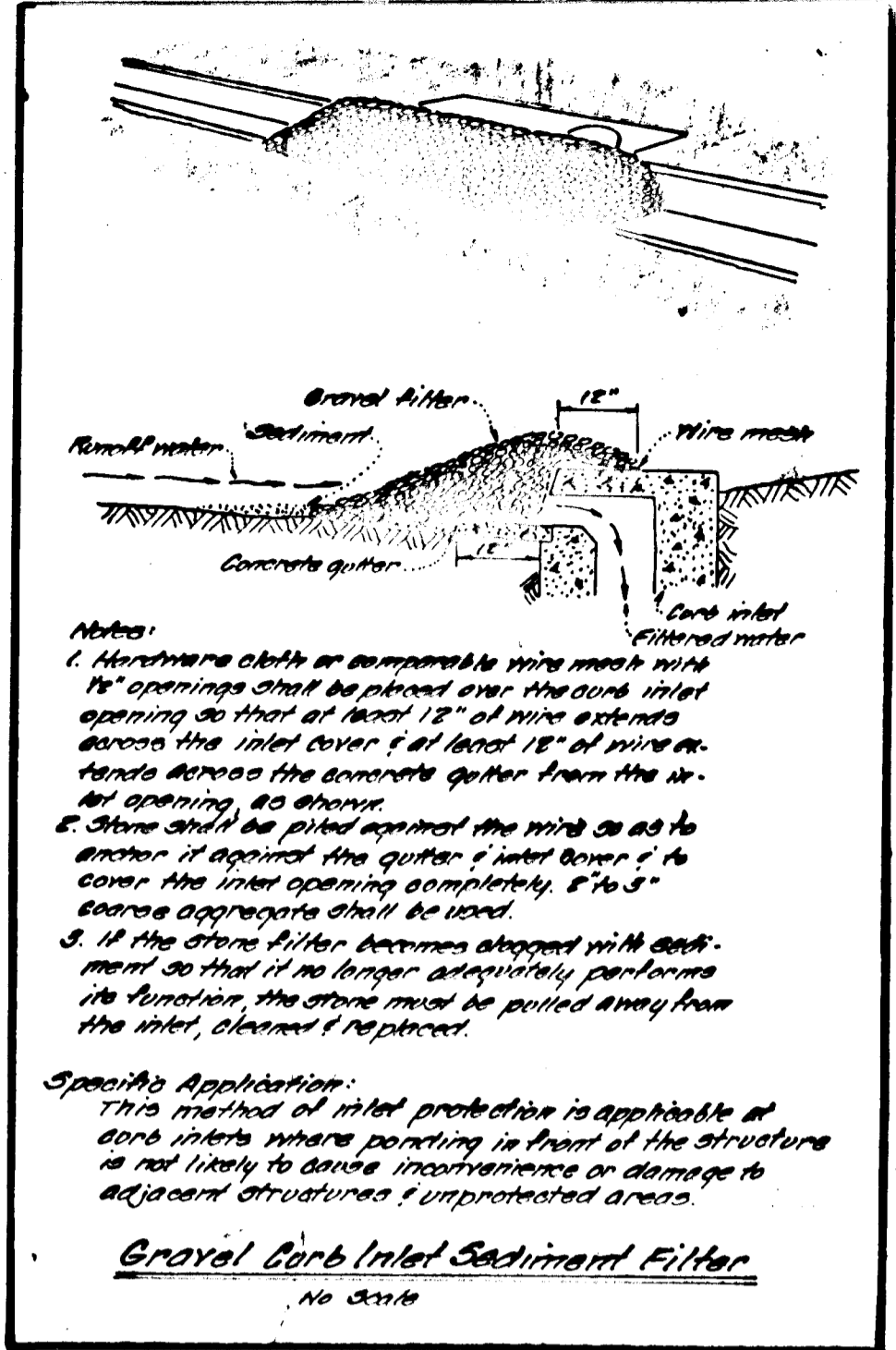
DATE: *7-11-84*  
 CHIEF, DIVISION OF LAND DEVELOPMENT AND ZONING ADMINISTRATION

REVIEWED FOR HOWARD SOIL CONSERVATION DISTRICT AND MEETS TECHNICAL REQUIREMENTS.

DATE: *7-11-84*  
 SIGNATURE  
 U.S. SOIL CONSERVATION SERVICE

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

DATE: *7/11/84*  
 SIGNATURE  
 HOWARD SOIL CONSERVATION DISTRICT



#1067

Owner: NEWBURN DEVELOPMENT CORPORATION  
 9970 STERRETT PLACE  
 SUITE 201  
 COLUMBIA, MARYLAND 21044  
 846-3077

NO.	REVISIONS	DATE

**DEVELOPMENT CONSULTANTS GROUP, INC.**

DETAILS AND SPECIFICATIONS  
 "HAMMONDS PROMISE"

DATE: June, 1984  
 DRAWN: WTH  
 CHECKED: TCS  
 SCALE: AS SHOWN

Sheet 4 of 6  
 PROJECT NO. 38-01

F-84-34

STANDARD AND SPECIFICATIONS

FOR

CRITICAL AREA STABILIZATION  
(With Permanent Seedings)

Definition

Planting vegetation such as grasses and legumes on critical areas.

Purpose

To stabilize the soil; to reduce damages from sediment and runoff to down-stream areas; improve wildlife habitat; enhance natural beauty.

Conditions Where Practices Apply

Graded or cleared areas subject to erosion and where a permanent, long-lived vegetative cover is needed.

SPECIFICATIONS

Vegetation cannot be expected to provide an erosion control cover and prevent soil slippage on a soil that is not stable due to its texture, structure, water movement or excessive slope.

Minimum soil conditions needed for the establishment and maintenance of a long-lived vegetative cover:

- A. Enough fine-grained materials (over 30 percent silt plus clay) to provide the capacity to hold at least a moderate amount of available moisture. Noticeable exception would be planting lovegrass and sericea lespedeza which can be planted on a sandier soil.
- B. Sufficient pore space to permit adequate root penetration.
- C. The soil shall be free from any material harmful to plant growth.
- D. If these minimum conditions cannot be met, see specification, Topsoiling (57.01).

I. Site Preparation

- A. Install needed erosion control practices such as interceptor dikes, berms and spreaders, contour ripping, erosion stops, channel liners and sediment basins.
- B. Grade as needed and feasible to permit the use of conventional equipment for seedbed preparation, seeding, mulch application, anchoring and maintenance.

II. Seedbed Preparation

Flat areas and slopes up to 3 to 1 grade shall be loose and friable to a depth of at least 3 inches. The top layer of soil shall be loosened by raking, disking or other acceptable means before seeding.

Slopes steeper than 3 to 1 shall have the top 1-3 inches of soil loose and friable before seeding.

III. Soil Amendments

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, apply 2 tons dolomitic limestone and 400 pounds 0-20-20, or equivalent per acre before seeding. Harrow or disc lime and 0-20-20, or equivalent fertilizer uniformly into the soil to minimum depth of 3 inches on slopes flatter than 3 to 1. On slopes of greater than 3 to 1 grade, the lime and fertilizer shall be worked in as directed by the contracting officer. On sloping land, the final harrowing or disking operation should be on the contour wherever feasible. No attempt should be made to drag any disced area to make the soil surface very smooth after disking. At time of seeding, apply 400 pounds 38-0-0 ureaform fertilizer and 500 pounds 10-20-20, or equivalent fertilizer per acre. For mixtures containing perennial legumes, the 500 pounds of 10-20-20 may be omitted.

IV. Seeding

- A. Select a mixture from table 51-1.
- B. Apply seed uniformly with a cyclone seeder, drill, cultiracker 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 hydro-seeder method of application.

V. Mulchings

A. Materials and Amounts

- 1. Straw - Straw shall be unrotted small grain straw applied at the rate of 1-1/2 to 2 tons per acre, or 70 to 90 pounds per 1,000 sq. ft. Mulch materials shall be relatively free of all kinds of weeds and shall be free of prohibited noxious weeds which are: Canada thistle, Johnsongrass and quackgrass.  
Spread uniformly by hand or mechanically. For uniform distribution of hand spread mulch, divide area into approximately 1,000 sq. ft. section and place 70-90 lbs. of mulch in each section.
- 2. Wood-fiber or paper-fiber mulch at the rate of 1,500 pounds per acre or 35 pounds per 1,000 sq. ft. may be applied by hydro-seeding. Use is limited to < 3% and < 150' length of slope and during optimum seeding periods in spring and fall.
- 3. Mulch nettings such as jute or excelsior blanket may be used. Staple to surface in waterways and on steep slopes. Lighter materials of paper, plastic and cotton mulch nettings may be used where erosion hazard is not severe. If area is to be mowed, do not use metal staples.
- 4. Wood chips at the rate of approximately 6 tons per acre or 275 lbs. per 1,000 sq. ft. may be used when available and when feasible to use. Particularly well-suited for utility and road rights-of-way.

B. Mulch anchoring shall be accomplished immediately after mulch placement to minimize loss by wind or water. This may be done by one of the following methods, depending upon size of area, erosion hazard, and cost. On sloping land, practice No. 3 below, should be done on the contour wherever possible. Applies to all straw and to wood chips or more critical sites, except "tracking" should be done up and down the slope with 1-1/2 inch cleat marks running across the slope.

- 1. Peg and Twine - Drive 8 to 10-inch wooden pegs to within 2 to 3 inches of the soil surface every 4 feet in all directions. Stakes may be driven before or after applying mulch. Secure mulch to soil surface by stretching twine between pegs in a criss-cross within a square pattern. Secure twine around each peg with two or more round turns.
- 2. Mulch Nettings - Staple lightweight biodegradable paper, plastic or cotton nettings over the mulch according to manufacturer's recommendations. Netting is usually available in rolls 4 feet wide and up to 300 feet long.
- 3. Mulch Anchoring Tool - A tractor drawn implement designed to punch and anchor mulch into the surface 2 inches of soil. This practice affords maximum erosion control but is limited to flatter slopes where equipment can operate safely. Tracking - primarily used on 3:1 cut and fill slopes to cut the mulch into the soil with bulldozer cleats.
- 4. Liquid Mulch Binders

Applications of liquid binders should be heavier at edges where wind catches mulch, in valleys, and at crests of banks. Remainder of area should be uniform in appearance. Caution should be used with asphalt in residential and similar areas.

- a. Curbback asphalt - rapid curing (RC-70, RC-250, and RC-800) or medium curing (MC-250 or MC-800). Apply 5 gallons per 1,000 sq. ft. or 200 gallons per acre on flat areas, and on slopes less than 8 feet high. On slopes 8 feet or more high, use 8 gallons per 1,000 sq. ft. or 348 gallons per acre.
- b. Emulsified asphalt - (ES-1, CSS-1, CMS-2, MS-2, RS-1, RS-2, CRS-1, and CRS-2). Apply 5 gallons per 1,000 sq. ft. or 200 gallons per acre on flat areas and on slopes less than 8 feet high. On slopes 8 feet or more high, use 8 gallons per 1,000 sq. ft. or 348 gallons per acre.

All asphalt designations are from the Asphalt Institute Specifications.

- c. Synthetic binders - Synthetic binders such as Curasol, DCA-70, Petroset and Terra Tack may be used at rates recommended by the manufacturer to anchor mulch material.

Note: All names given above are registered trade names. This does not constitute a recommendation of these products to the exclusion of other products.

VI. Irrigation

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

VII. Maintenance

Maintenance is a vital factor in maintaining an adequate vegetative erosion control cover. See Table 51-2.

- A. Irrigation - If soil moisture becomes deficient, irrigate to prevent loss of stand of protective vegetation, if feasible.
- B. Repairs - Inspect all seed areas for failures and make necessary repairs, replacements, and reseedings 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.

TABLE 51-1  
Permanent Seedings and Seeding Dates

Mix. No.	SEEDING MIXTURES (Use Certified Seed if available)	SEEDING RATE		OPTIMUM SEEDING DATES (e)								
		Lbs./1,000	Sq. Ft.	COASTAL PLAIN		PIEDMONT		MOUNTAINS				
		AGE	PK.	2/1-4/30	6/1-8/15	8/15-10/31	1/1-4/30	5/1-7/31	8/1-10/15	1/5-5/11	6/1-7/31	8/1-9/30
1.	'Kentucky 31' Tall Fescue *	60	1.38	X	X	X	X	X	X	X	X	X
2.	'Kentucky 31' Tall Fescue * Weeping lovegrass (a)	60	1.38	X	X	X	X	X	X	X	X	X
3.	'Kentucky 31' Tall Fescue * 'Korean' lespedeza (b) inoculated	20	1.15	X	X	X	X	X	X	X	X	X
4.	'Kentucky 31' Tall Fescue * Sericea lespedeza (b) inoculated	40	.92	X	X	X	X	X	X	X	X	X
5.	'Kentucky 31' Tall Fescue * Birdsfoot trefoil, inoculated	40	.92	X	X	X	X	X	X	X	X	X
6.	Crownvetch, inoculated Redtop	15	.34	X	X	X	X	X	X	X	X	X
7.	Crownvetch, inoculated 'Kentucky 31' Tall Fescue *	15	.46	X	X	X	X	X	X	X	X	X

#1067

Surveyor/Engineer's Certificate

I certify that this plan of development is in the opinion a settlement control represents a practical & workable plan based on my personal knowledge of the site conditions & information prepared in accordance with the requirements of the Howard Soil Conservation District

2-10-84

STATE OF MARYLAND  
DEPARTMENT OF LAND SURVEYING  
M. D. LAWRENCE  
M.D. # P.L.S. # 5910

ENGINEER'S CERTIFICATE

I do 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 Natural Resources Approved Training Program for the Control of Sediment and Erosion before beginning the project

Carol M. Caswell 2/24/1984

APPROVED: FOR PUBLIC WATER, PUBLIC-SEWER & PUBLIC STORM DRAINAGE SYSTEMS & ROADS.  
HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS

DATE \_\_\_\_\_ DIRECTOR

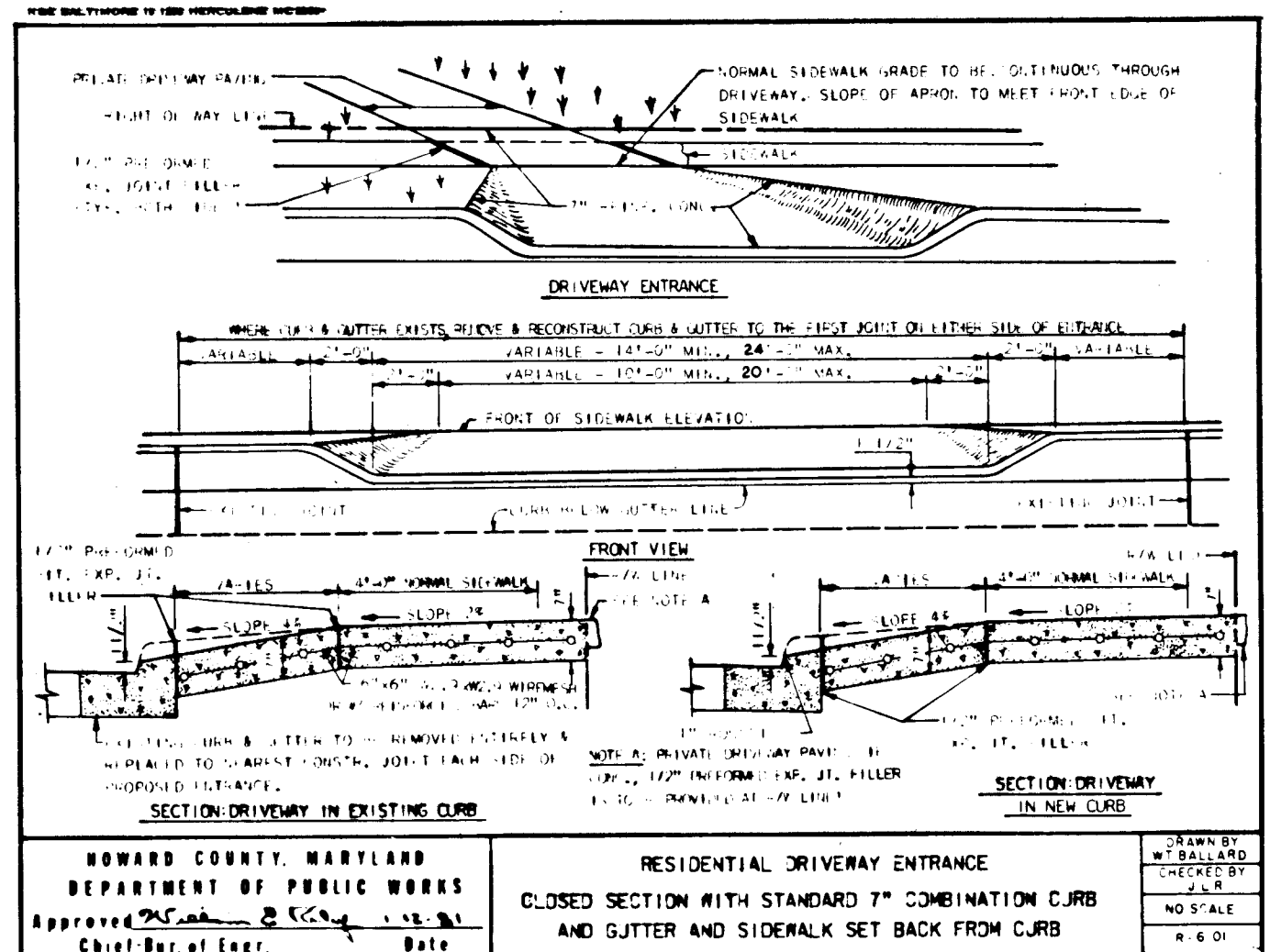
DATE 7-18-84 W. S. R. R. R.  
CHIEF, BUREAU OF ENGINEERING

APPROVED: FOR PUBLIC WATER & PUBLIC SEWAGE SYSTEMS  
HOWARD COUNTY HEALTH DEPARTMENT

DATE \_\_\_\_\_ COUNTY HEALTH OFFICER

APPROVED: HOWARD COUNTY OFFICE OF PLANNING & ZONING

DATE 7-11-84 W. S. R. R. R.  
CHIEF, DIVISION OF LAND DEVELOPMENT AND ZONING ADMINISTRATION



REVIEWED FOR HOWARD SOIL CONSERVATION DISTRICT AND MEETS MECHANICAL REQUIREMENTS.

DATE 7-11-84 W. S. R. R. R.  
SIGNATURE  
U.S. SOIL CONSERVATION SERVICE

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

DATE 7/1/84 W. S. R. R. R.  
SIGNATURE  
HOWARD SOIL CONSERVATION DISTRICT

F-84-34

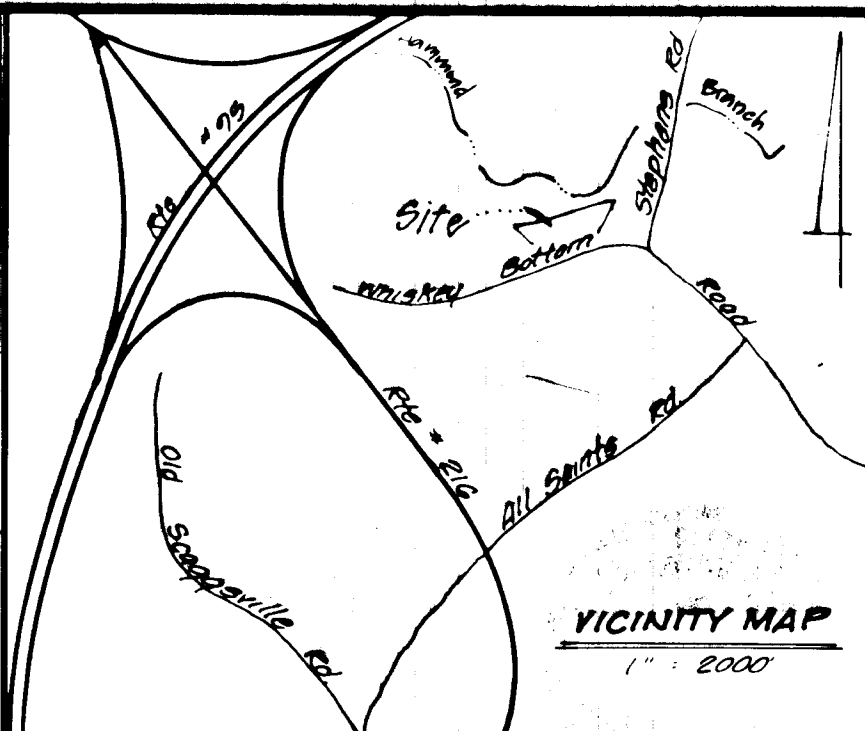
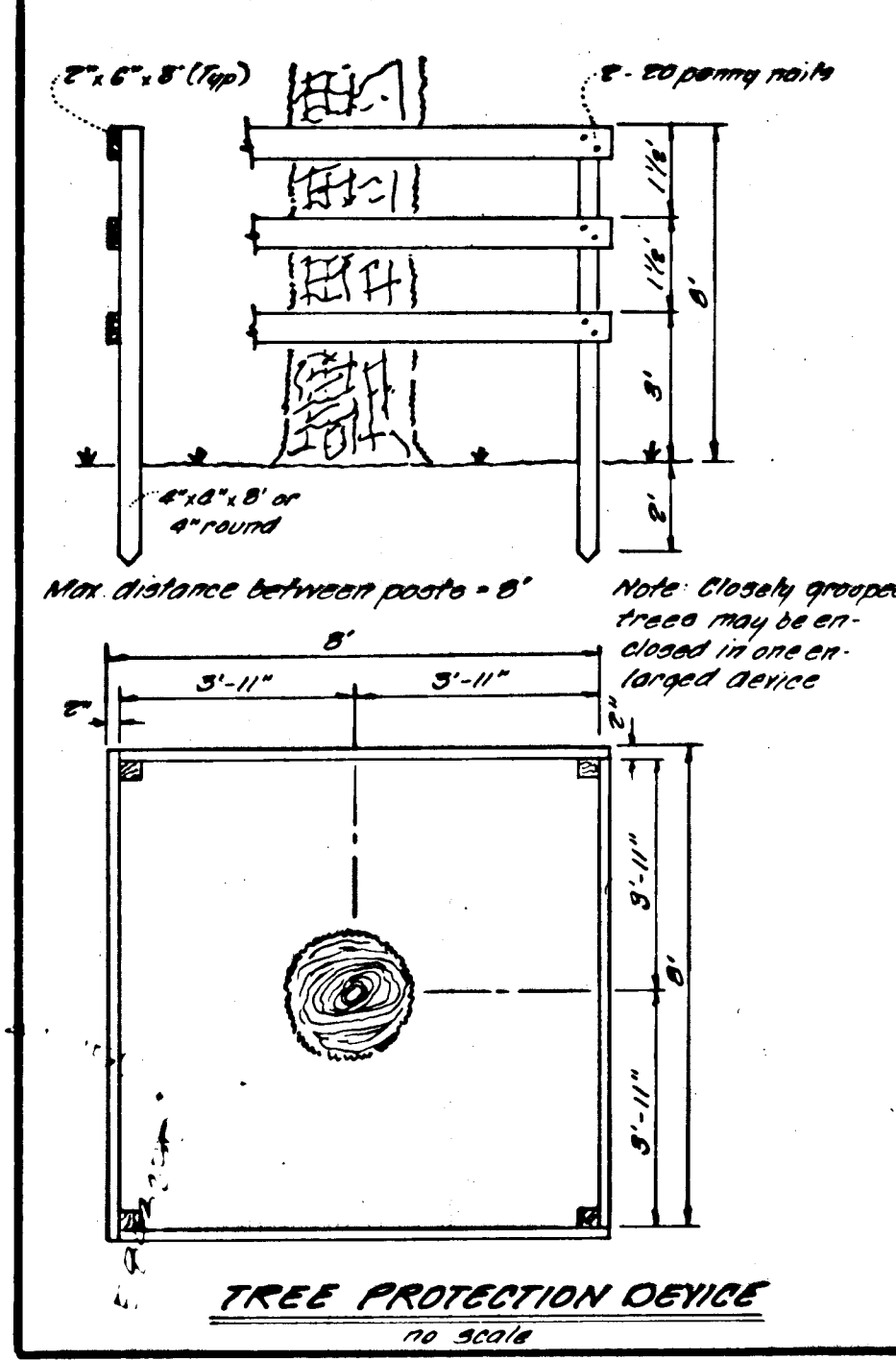
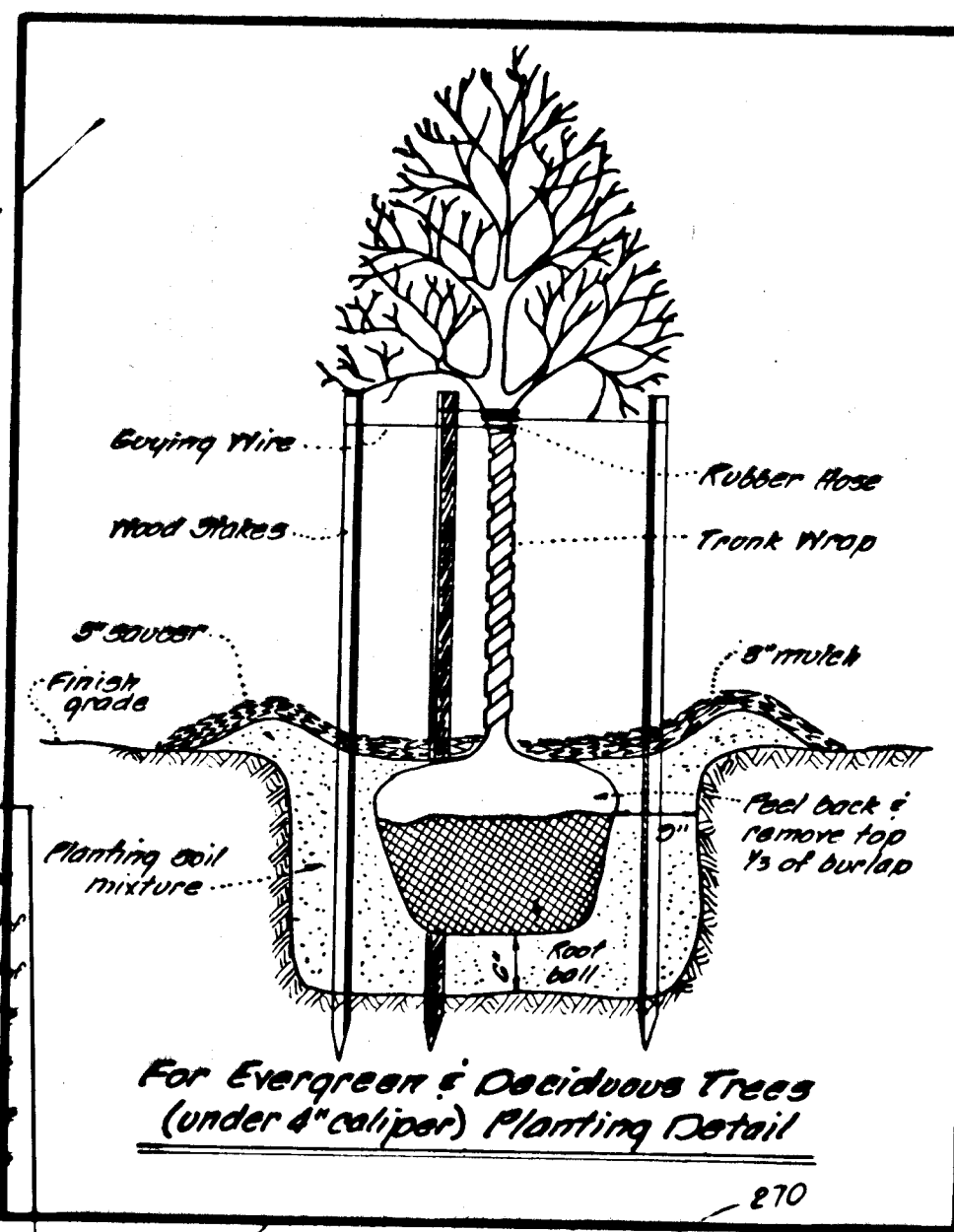
- The land included in this plan is zoned R5C.
- The area covered in this submission is located on Soils Map No. 33 for Howard County, Maryland.
- The area covered in this submission is located on Tax Map 47, Parcel 47H.
- Street lines, as required in Section 16.131 of the subdivision regulations are the responsibility of the developer.
- Each driveway shall be Howard County Std. See Detail Sheet 2 of 2.
- All roadways are public.
- Any damage to County-owned right-of-way shall be corrected at the developer's expense.
- Property shown record on plat Lots 1-22 "Irish Manor" a subdivision of all of Parcel 47H on Tax Map 47 Howard County, Maryland.
- Materials and construction shall be in accordance with Howard County Board construction code.
- Site Analysis:
  - Total area of lots: 3.42 acres
  - Disturbed Area: 3.30 acres
  - Impervious Area: 1.20 acres
  - Green Area: 2.20 acres

1. 58190
2. 44063 AC
3. 44063 AC
4. 44063 AC
5. 44063 AC
6. 44063 AC
7. 44063 AC
8. 44063 AC
9. 44063 AC
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18. 44063 AC
19. 44063 AC
20. 44063 AC
21. 44063 AC
22. 44063 AC

TRAP NO. 3	
DRAINAGE AREA	= 10 acres
STORAGE REQUIRED	= 1,800 cf
STORAGE PROVIDED	= 1,800 cf
TOP OF DIKE ELEVATION	= 263.8
OUTLET ELEVATION	= 261.8
CLEANOUT ELEVATION	= 260.8
BOTTOM ELEVATION	= 258.8
SIZE OF TRAP	22x50x4
BOTTOM ELEVATION	= 261.8

TRAP NO. 2	
DRAINAGE AREA	= 2.1 ac
STORAGE REQUIRED	= 378 cf
STORAGE PROVIDED	= 380 cf
TOP OF DIKE ELEVATION	= 261.8
OUTLET ELEVATION	= 260.8
CLEANOUT ELEVATION	= 258.8
BOTTOM ELEVATION	= 256.8
SIZE OF TRAP	30x17x4
BOTTOM ELEVATION	= 260.8

TRAP NO. 1	
DRAINAGE AREA	= 25 ac
STORAGE REQUIRED	= 4,500 cf
STORAGE PROVIDED	= 4,500 cf
TOP OF DIKE ELEVATION	= 268.8
OUTLET ELEVATION	= 266.8
CLEANOUT ELEVATION	= 264.8
BOTTOM ELEVATION	= 262.8
SIZE OF TRAP	24x14x4
BOTTOM ELEVATION	= 268.8



I CERTIFY THAT THIS PLAN OF DEVELOPMENT FOR EROSION & SEDIMENT CONTROL IS PRACTICAL & WORKABLE PLAN BASED ON KNOWLEDGE OF THE SITE CONDITIONS PREPARED IN ACCORDANCE WITH THE HOWARD SOIL CONSERVATION DISTRICT PROFESSIONAL ENGINEER

DATE: 7-9-84  
 SIGNATURE: [Signature]  
 TITLE: PROFESSIONAL ENGINEER

I CERTIFY THAT THIS PLAN OF DEVELOPMENT FOR EROSION & SEDIMENT CONTROL IS PRACTICAL & WORKABLE PLAN BASED ON KNOWLEDGE OF THE SITE CONDITIONS PREPARED IN ACCORDANCE WITH THE HOWARD SOIL CONSERVATION DISTRICT

DATE: 7-9-84  
 SIGNATURE: [Signature]  
 TITLE: SURVEYOR'S CERTIFICATE

I CERTIFY THAT ALL DEVELOPMENT AND/OR CONSTRUCTION WILL BE DONE ACCORDING TO THIS PLAN OF DEVELOPMENT & THAT ANY RESPONSIBLE PERSONNEL INVOLVED IN THE CONSTRUCTION PROJECT WILL HAVE A CERTIFICATE OF ATTENDANCE AT A DEPARTMENT OF NATURAL RESOURCES APPROVED TRAINING PROGRAM FOR THE CONTROL OF SEDIMENT & EROSION BEFORE BEGINNING THE PROJECT.

DATE: 7-9-84  
 SIGNATURE: [Signature]  
 TITLE: OWNER

APPROVED FOR PUBLIC WATER, PUBLIC SEWER & PUBLIC STORM DRAINAGE SYSTEMS & ROADS:  
 HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS

DATE: 7-18-84  
 SIGNATURE: [Signature]  
 TITLE: CHIEF, BUREAU OF ENGINEERING

APPROVED FOR PUBLIC WATER & PUBLIC SEWER SYSTEMS:  
 HOWARD COUNTY HEALTH DEPARTMENT

DATE: 7-11-84  
 SIGNATURE: [Signature]  
 TITLE: COUNTY HEALTH OFFICER

APPROVED FOR HOWARD SOIL CONSERVATION DISTRICT:  
 HOWARD COUNTY DEPARTMENT OF PLANNING & ZONING

DATE: 7-11-84  
 SIGNATURE: [Signature]  
 TITLE: COUNTY PLANNING & ZONING OFFICER

APPROVED FOR HOWARD SOIL CONSERVATION DISTRICT:  
 HOWARD COUNTY DEPARTMENT OF PLANNING & ZONING

DATE: 7-11-84  
 SIGNATURE: [Signature]  
 TITLE: COUNTY PLANNING & ZONING OFFICER

LOT NO	STREET ADDRESS
1	
2	
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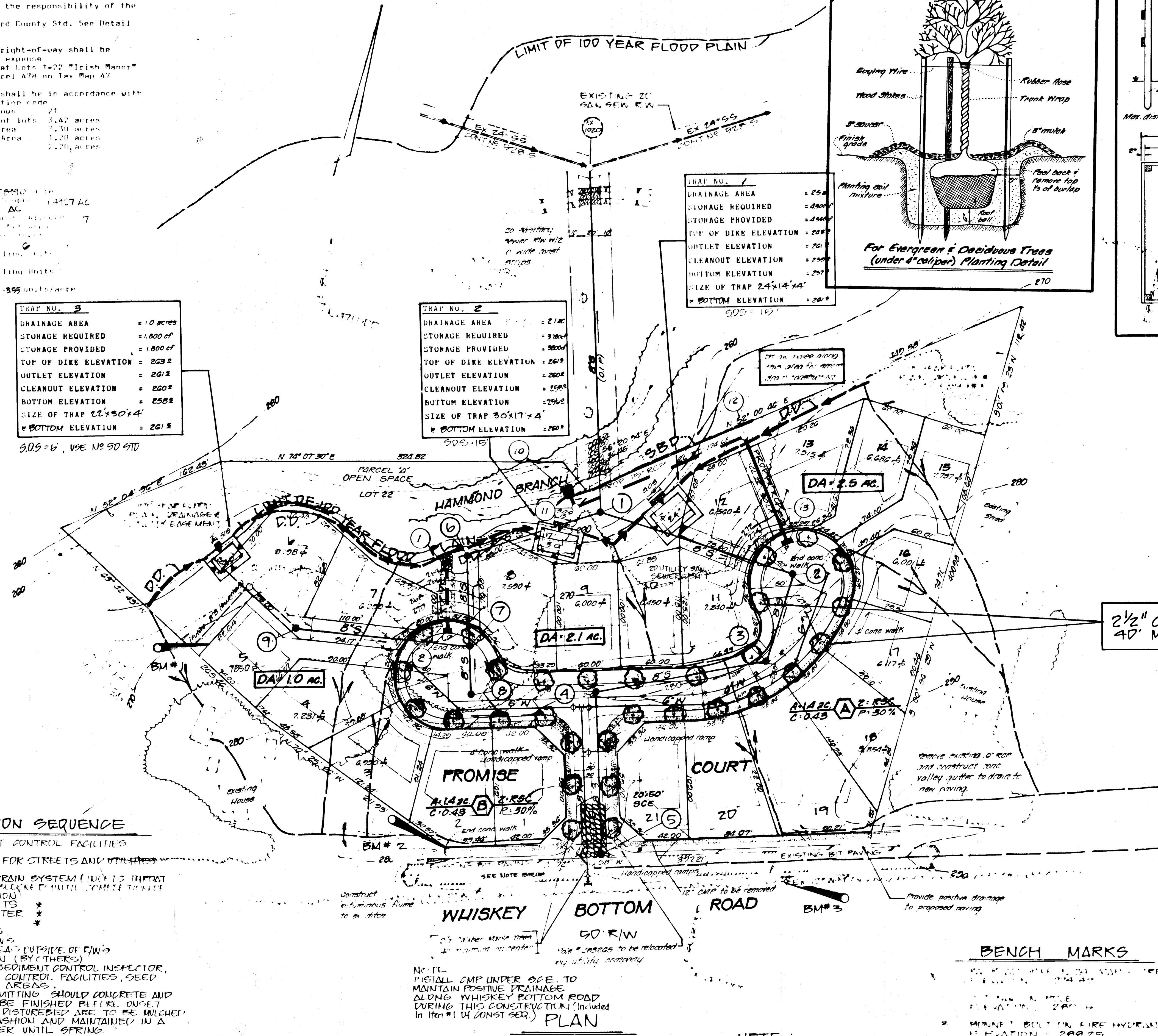
OWNER: NEWBURN DEVELOPMENT CORPORATION  
 5570 STERRETT PLACE  
 SUITE 201  
 COLUMBIA, MD 21044  
 BALT 797-9410 WASH 576-5877

DEVELOPMENT CONSULTANTS GROUP, INC.

LANDSCAPE PLAN  
 HAMMONDS PROMISE  
 200404  
 HOWARD COUNTY, MARYLAND  
 TAX MAP 47 PARCEL 47H

DATE: June 1984  
 DRAWN: Bill  
 CHECKED: Bill  
 SCALE: As shown

Sheet 6 of 6  
 PROJECT NO. 58-01



**CONSTRUCTION SEQUENCE**

1. INSTALL SEDIMENT CONTROL FACILITIES
  2. CLEAR SITE
  3. ROUGH GRADE SITE FOR STREETS AND UTILITIES
  4. INSTALL UTILITIES
  5. INSTALL STORM DRAIN SYSTEM (IN ITS THROAT OPENINGS TO BE PLACED UNTIL COMPLETION OF STREET CONSTRUCTION)
  6. FINE GRADE STREETS
  7. INSTALL CURB & GUTTER
  8. PAVE STREETS
  9. INSTALL SIDEWALKS
  10. INSTALL "20" IN R/W'S
  11. SEED AND MULCH AREAS OUTSIDE OF F/W'S
  12. HOUSE CONSTRUCTION (BY OTHERS)
  13. UPON APPROVAL OF SEDIMENT CONTROL INSPECTOR, REMOVE SEDIMENT CONTROL FACILITIES, SEED AND MULCH THESE AREAS.
- \* TEMPERATURE PERMITTING SHOULD CONCRETE AND PAVING WORK NOT BE FINISHED BEFORE ONSET OF WINTER. ALL DISTURBED AREAS TO BE MULCHED IN AN APPROVED FASHION AND MAINTAINED IN A NON EROSION MANNER UNTIL SPRING.

NOTE: INSTALL CMP UNDER SCE TO MAINTAIN POSITIVE DRAINAGE ALONG WHISKEY BOTTOM ROAD DURING THIS CONSTRUCTION (Included in Item #1 of CONST. SER.)

SCALE: 1" = 50'

NOTE: THIS PLAN TO BE USED FOR CLEARING, GRADING & SED CONTROLS.

#F1067

Owner: NEWBURN DEVELOPMENT CORPORATION  
 5570 STERRETT PLACE  
 SUITE 201  
 COLUMBIA, MD 21044  
 BALT 797-9410 WASH 576-5877

DEVELOPMENT CONSULTANTS GROUP, INC.

LANDSCAPE PLAN  
 HAMMONDS PROMISE  
 200404  
 HOWARD COUNTY, MARYLAND  
 TAX MAP 47 PARCEL 47H

DATE: June 1984  
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Sheet 6 of 6  
 PROJECT NO. 58-01