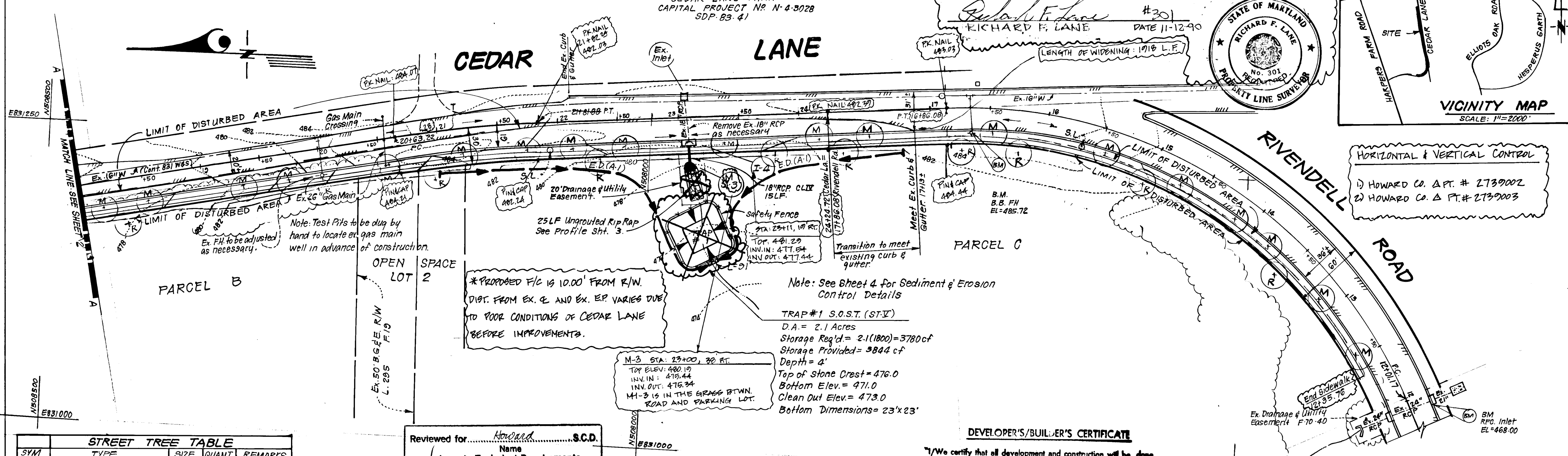


STATIONS	RADIUS	Δ	ARC	TAN	CHORD & BEARING
CEGAR LA. PC 0+00.00	1030.00	06°36'02"	118.66'	59.39'	118.53' S08°24'36"E
RIVENDELL RD. PT 1+18.88	400.00	63°27'29"	484.91'	277.27'	455.76' N29°37'11"W



SYM	TYPE	SIZE	QUANT	REMARKS
(M)	ACER RUBRUM Red Sunset	2 1/2" CAL.	37	86 B. Heavy Heads
(R)	QUERCUS RUBRA Northern Red Oak	" "	22	" "

1. Contractor shall verify location of underground utilities prior to digging. location of trees may be adjusted slightly to accommodate field conditions.  
 2. Street Trees: The location, type and number of trees shown on these plans are tentative and are used for bond purposes only. The final location and variety of trees may vary to accommodate field conditions and builders landscape program. Bond release is contingent upon Section 10.131 of the Howard County Subdivision Regulations, as approved by the Office of Planning and Zoning.

Reviewed for Howard S.C.D. and meets Technical Requirements 4/15/88  
 Signature [Signature] Date  
 U.S. Soil Conservation Service

THIS DEVELOPMENT PLAN IS APPROVED FOR SOIL EROSION AND SEDIMENT CONTROL BY THE HOWARD SOIL CONSERVATION DISTRICT.  
[Signature] 4/15/88  
 Approved Date

PLAN SCALE: 1"=50'

DEVELOPER'S/BUILDER'S CERTIFICATE  
 I/We certify that all development and construction will be done according to this plan of development and plan for erosion and sediment control and that all responsible personnel involved in the construction project will have a Certificate of Attendance at a Dept. of Natural Resources Approved Training Program for the Control of Sediment and Erosion before beginning the project. I also authorize periodic on-site inspection by the Howard Soil Conservation District or their authorized agents, as are deemed necessary.  
[Signature] 1-5-88  
 Signature of Developer/Builder Date

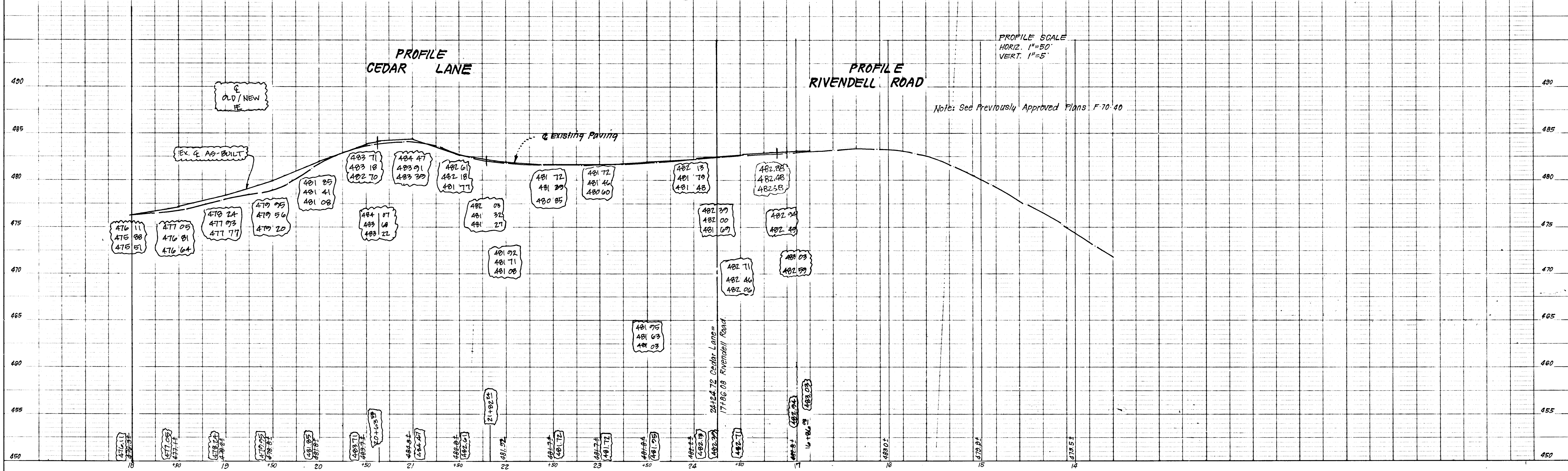
ENGINEER'S CERTIFICATE  
 I hereby certify that this plan for Erosion and Sediment Control represents a practical and workable plan based on my personal knowledge of the site conditions and that it was prepared in accordance with the requirements of the Howard Soil Conservation District.  
[Signature] 1-6-88  
 G. Nelson Clark Date

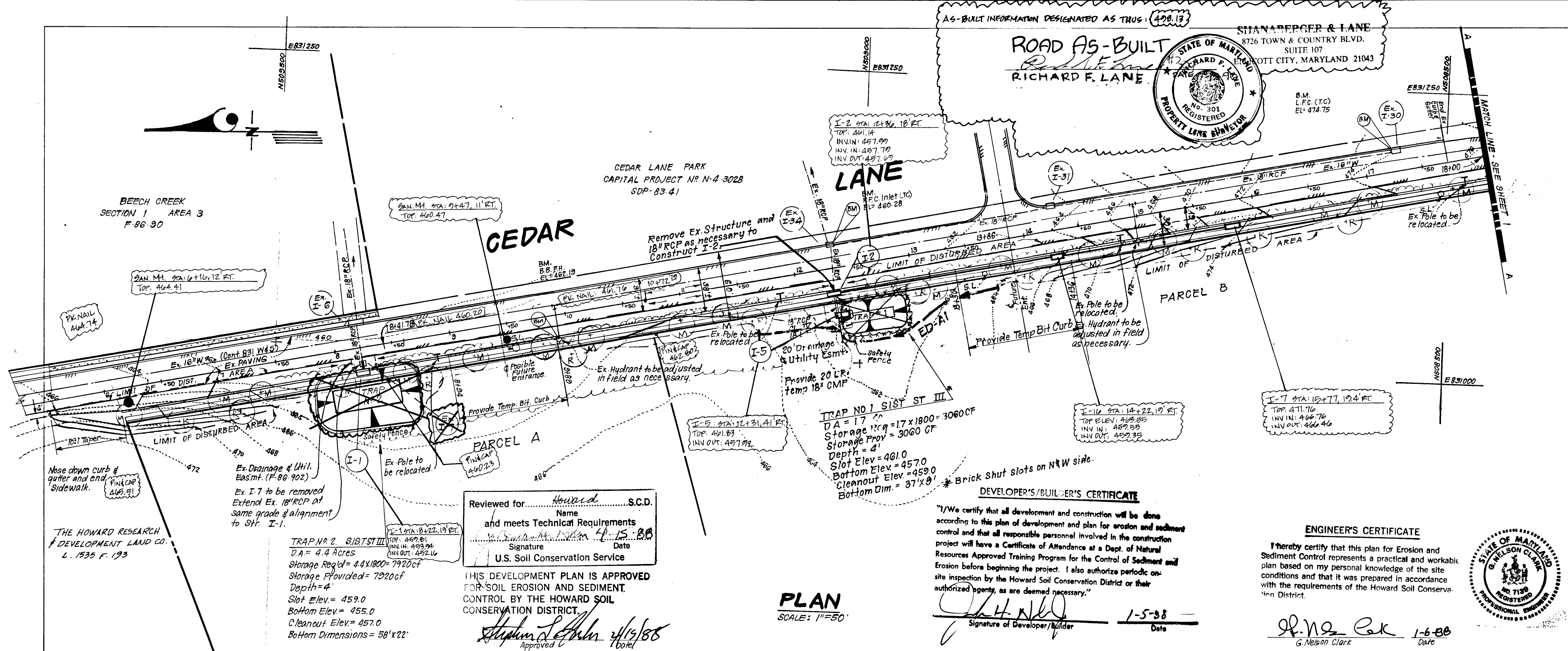


- ### GENERAL NOTES
- All storm drain paving shall be constructed in accordance with the latest edition and specifications of Howard County & MDSHA.
  - Types of storm drainage refer to the Standard Details of No. Co. & MDSHA.
  - Trench compaction for storm drains within road or street right of way limits shall be in accordance with "No. Co. Design Manual, Vol. II" Std. G-2.01.
  - Information concerning underground utilities was obtained from available records, but the contractor must determine the exact location and elevation of mains by digging test pits, by hand, at all utility crossings, well in advance of construction.
  - All utility companies shall be notified 24 hrs. in advance of construction.
  - All traffic services, parking and signing to be done in accordance with the "Manual of Uniform Traffic Control Devices," 1978 Edition.
  - Sag and Crest Vertical Curves were designed in accordance with "No. Co. Design Manual" Vol. III.
  - Provide Conc. Sidewalk Ramps No. Co. Std. Type A R.4.01 where shown.
  - Design Speed: 35 mph. Zoning: NT.
  - The contractor or developer shall contact the Construction Inspection/Survey Division 24 hrs. in advance of commencement of work Ph. 762-7272.
  - Based on a field investigation by Kilde Consultants Inc. in Dept. 1987, No Wetlands are impacted by this project.
- OSL = Street Light: 250 watt mercury vapor lamp pendant mounted fixtures on a 30 ft bronze aluminum pole.

APPROVED: HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS.  
[Signature] 4-22-88  
 Chief, Land Development Division Date  
[Signature] 4/22/88  
 Chief, Bureau of Highways Date  
[Signature] 4/22/88  
 Chief, Bureau of Engineering Date  
 APPROVED: HOWARD COUNTY OFFICE OF PLANNING & ZONING.  
[Signature] 4/22/88  
 Chief, Division of Community Planning & Land Development Date

<b>CLARK · FINEFROCK &amp; SACKETT, INC.</b> ENGINEERS · PLANNERS · SURVEYORS 7135 MINSTREL WAY COLUMBIA, MARYLAND 21045 301-391-7500 Bldg. 301.621-8100 Wash.		
DESIGNED	JLS	ROAD CONSTRUCTION PLANS CEDAR LANE & RIVENDELL ROAD <b>COLUMBIA</b> VILLAGE OF HARPERS CHOICE SECTION 7 AREA 2 5TH ELECTION DISTRICT HOWARD COUNTY, MARYLAND
DRAWN	KIW	SCALE As Shown
CHECKED	JLS	DRAWING 1064
DATE	12-11-87	JOB NO. 87-116
		FILE NO. 87-116-D





© S.L. - Street Light: 250-watt mercury vapor lamp pendant mounted fixtures on a 30 ft. bronze aluminum pole.

APPROVED: HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS  
 Chief, Land Development Division  
 Chief, Bureau of Highways  
 Chief, Bureau of Engineering  
 APPROVED: HOWARD COUNTY OFFICE OF PLANNING & ZONING  
 Chief, Division of Community Planning and Land Development.

**CLARK · FINEFROCK & SACKETT, INC.**  
 ENGINEERS PLANNERS SURVEYORS  
 7135 MINSTREL WAY COLUMBIA, MARYLAND 21046 301-381-7500B311 301-621-8100 Wash.

DESIGNED	JLS	SCALE	As Shown
DRAWN	K/W.	DRAWING	2 OF 4
CHECKED	JLS	JOB NO.	87-116
DATE	12-11-87	FILE NO.	87-116-D

FOR: The Howard Research & Development Land Co.  
 10275 Little Patuxent Pkwy  
 Columbia, Md. 21044

Reviewed for Howard S.C.D. and meets Technical Requirements  
 Signature: [Signature] Date: 1-5-88  
 U.S. Soil Conservation Service

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

Signature: [Signature] Date: 1/5/88  
 Approved

**DEVELOPER'S/BUILDER'S CERTIFICATE**  
 I/We certify that all development and construction will be done according to the plan of development and plan for erosion and sediment control and that all responsible personnel involved in the construction project will have a Certificate of Attendance at a Dept. of Natural Resources Approved Training Program for the Control of Sediment and Erosion before beginning the project. I also authorize periodic on-site inspection by the Howard Soil Conservation District or their authorized agents, as are deemed necessary.

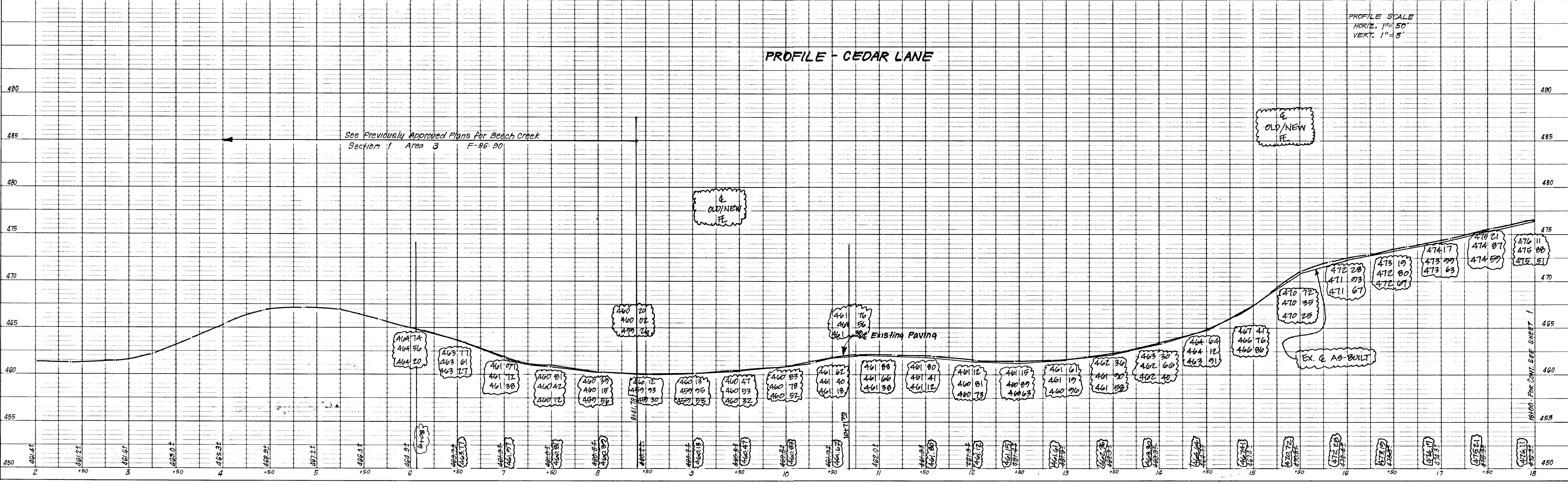
Signature of Developer/Builder: [Signature] Date: 1-5-88

**ENGINEER'S CERTIFICATE**  
 I hereby 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.

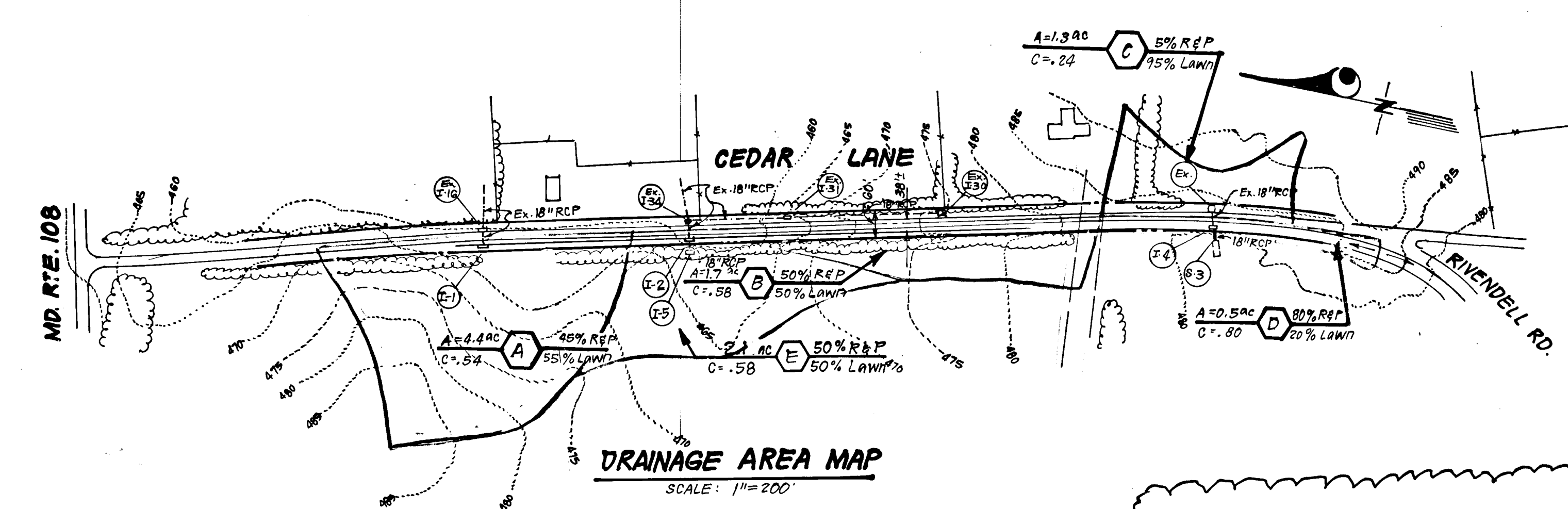
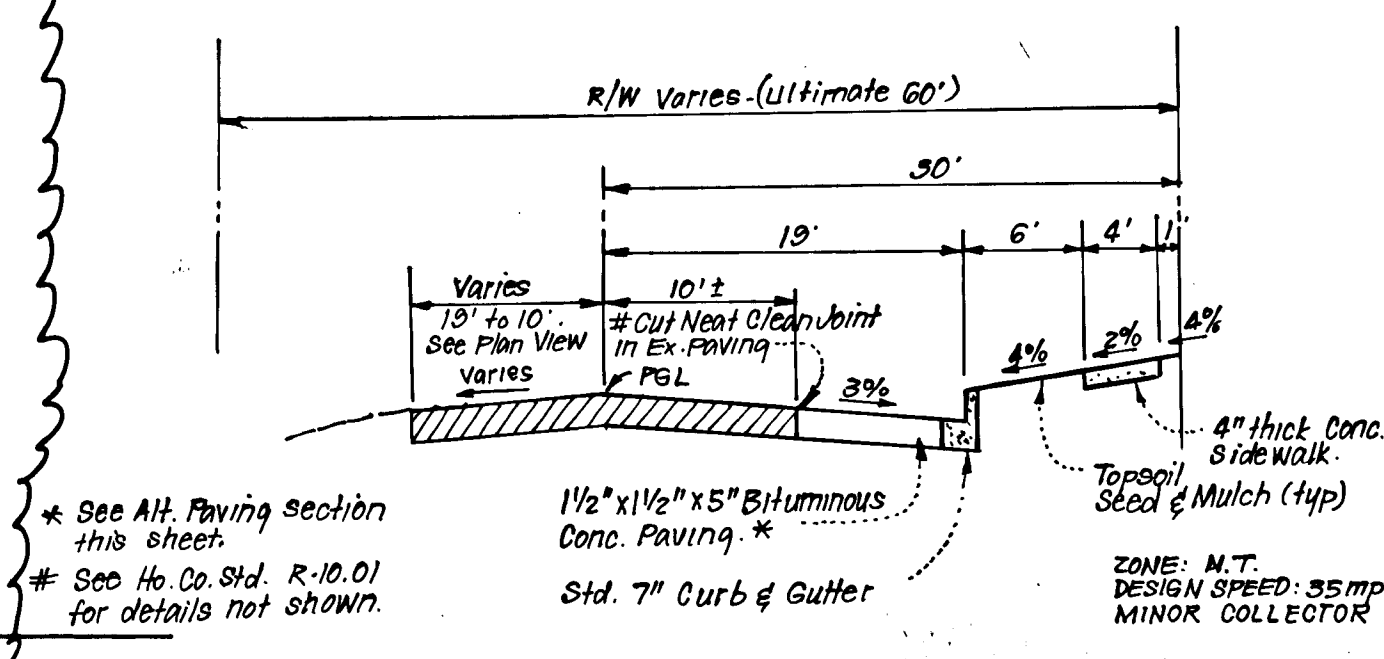
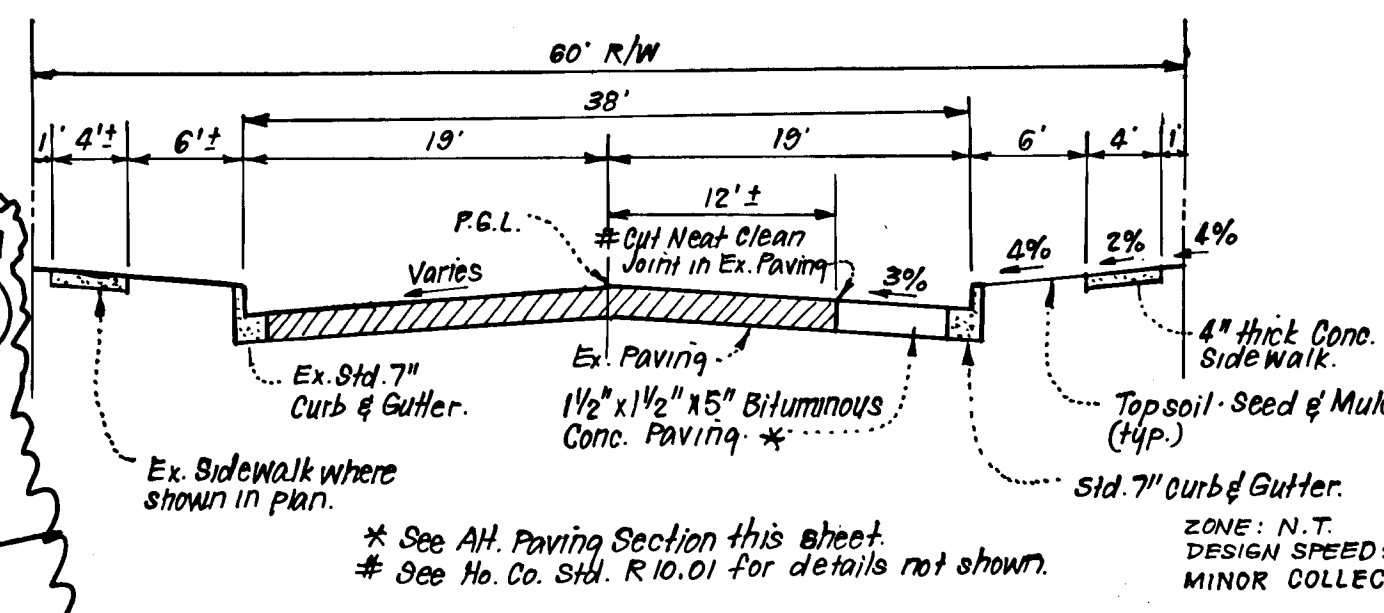
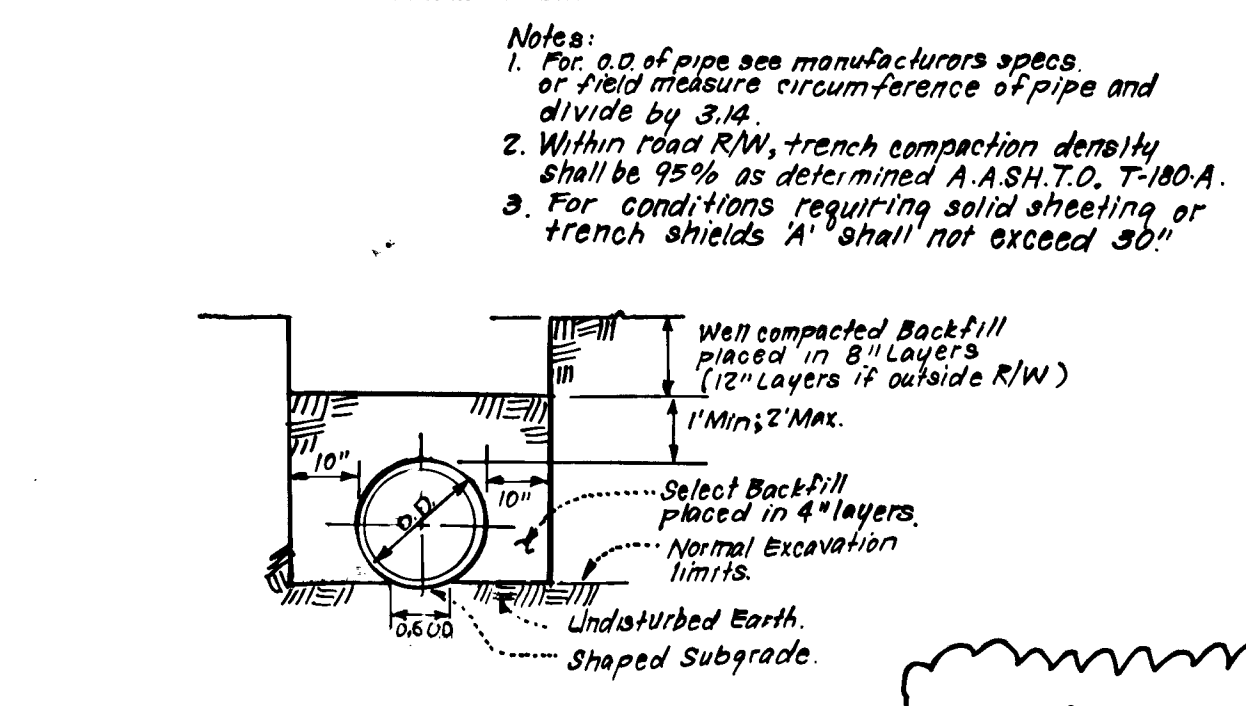
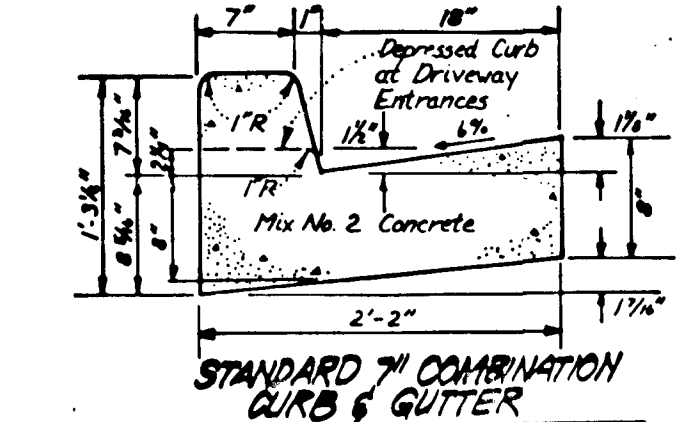
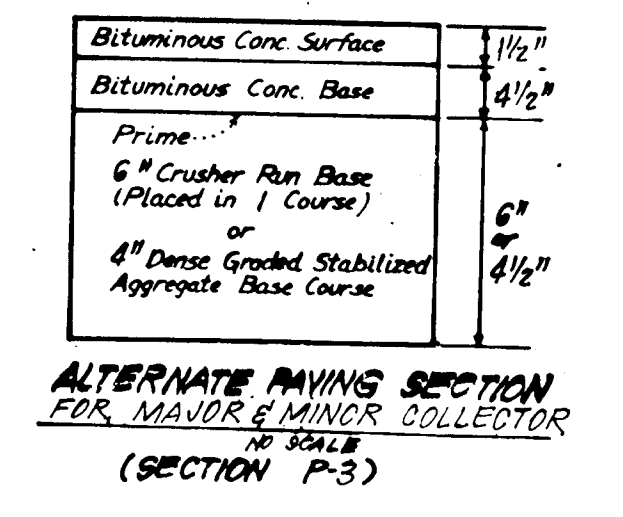
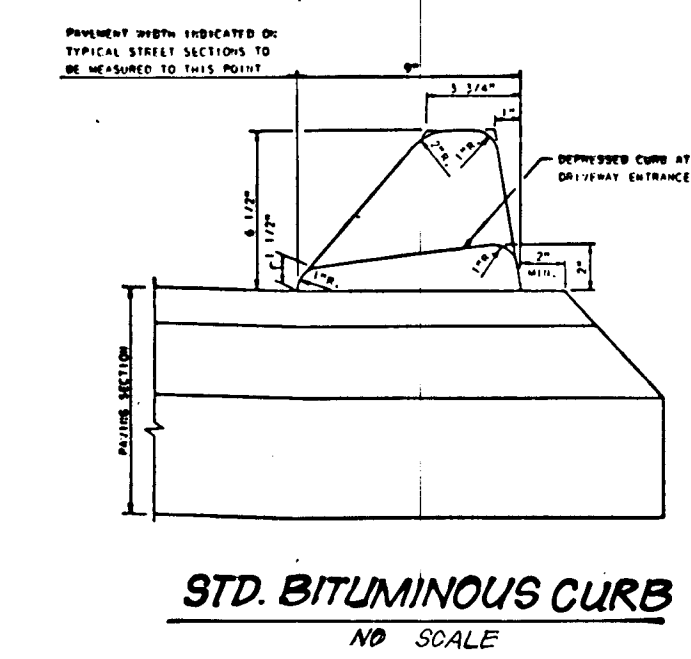
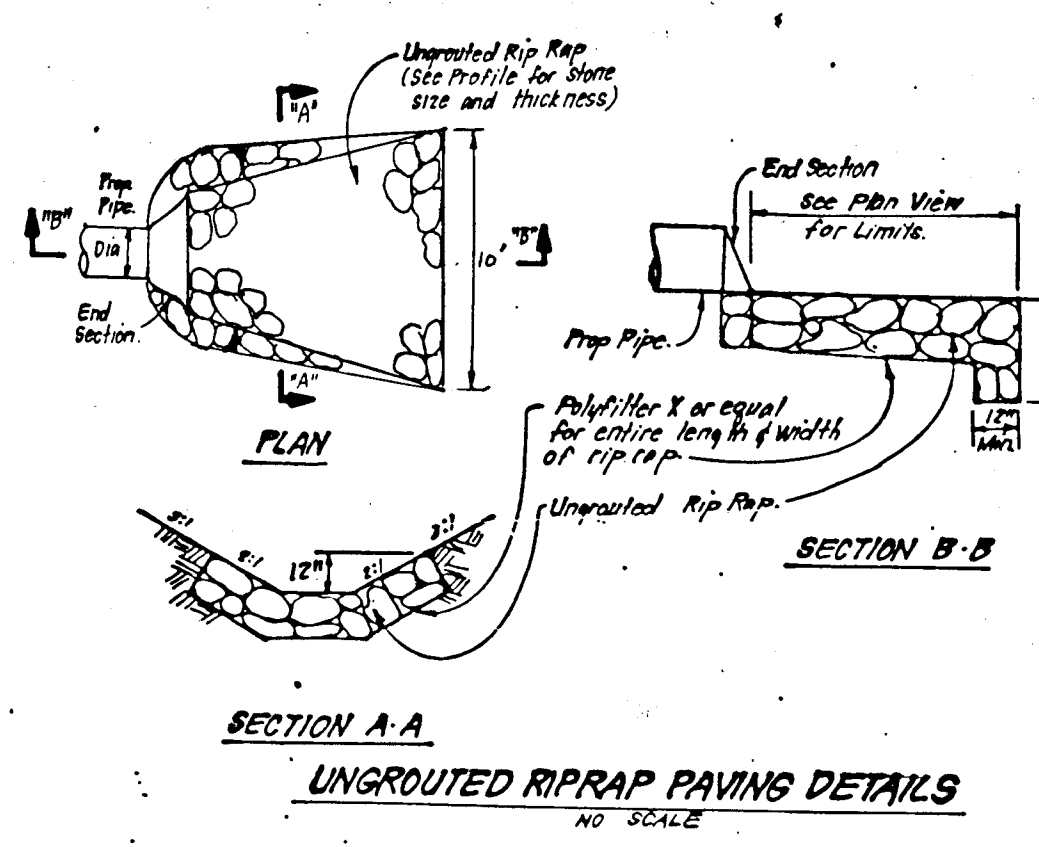
Signature: [Signature] Date: 1-6-88  
 G. Nelson Clark

**PLAN**  
 SCALE: 1"=50'

**PROFILE - CEDAR LANE**



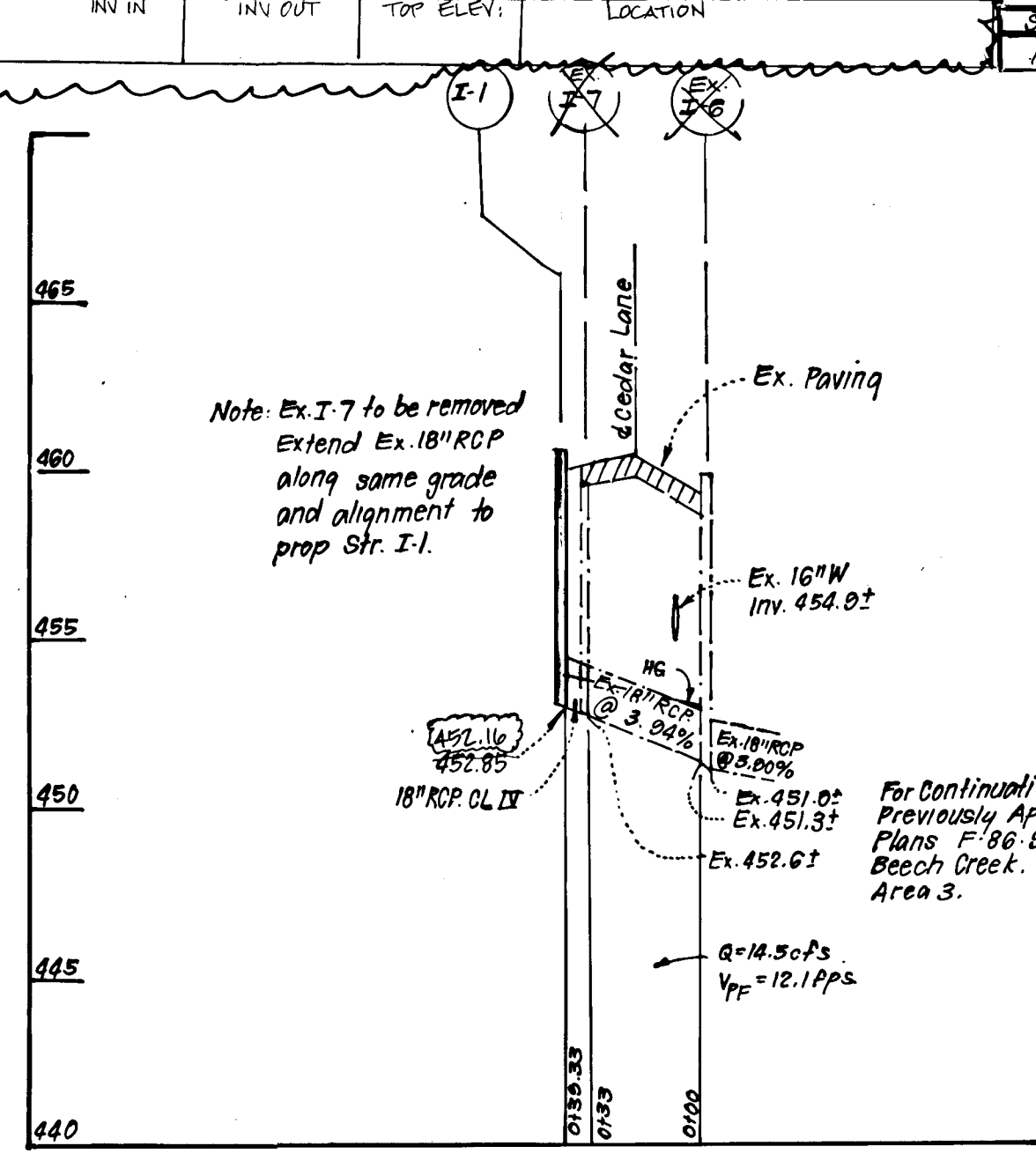
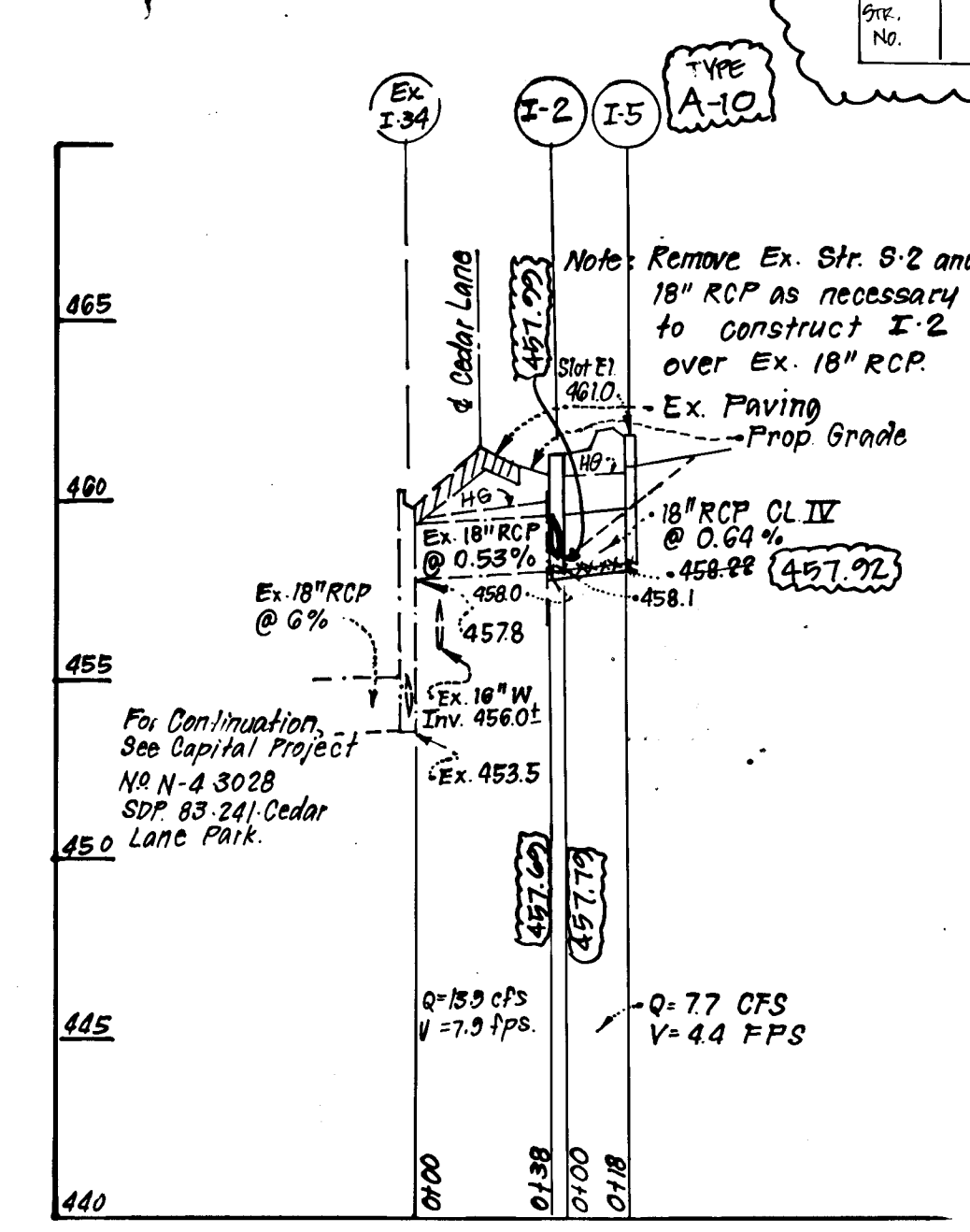
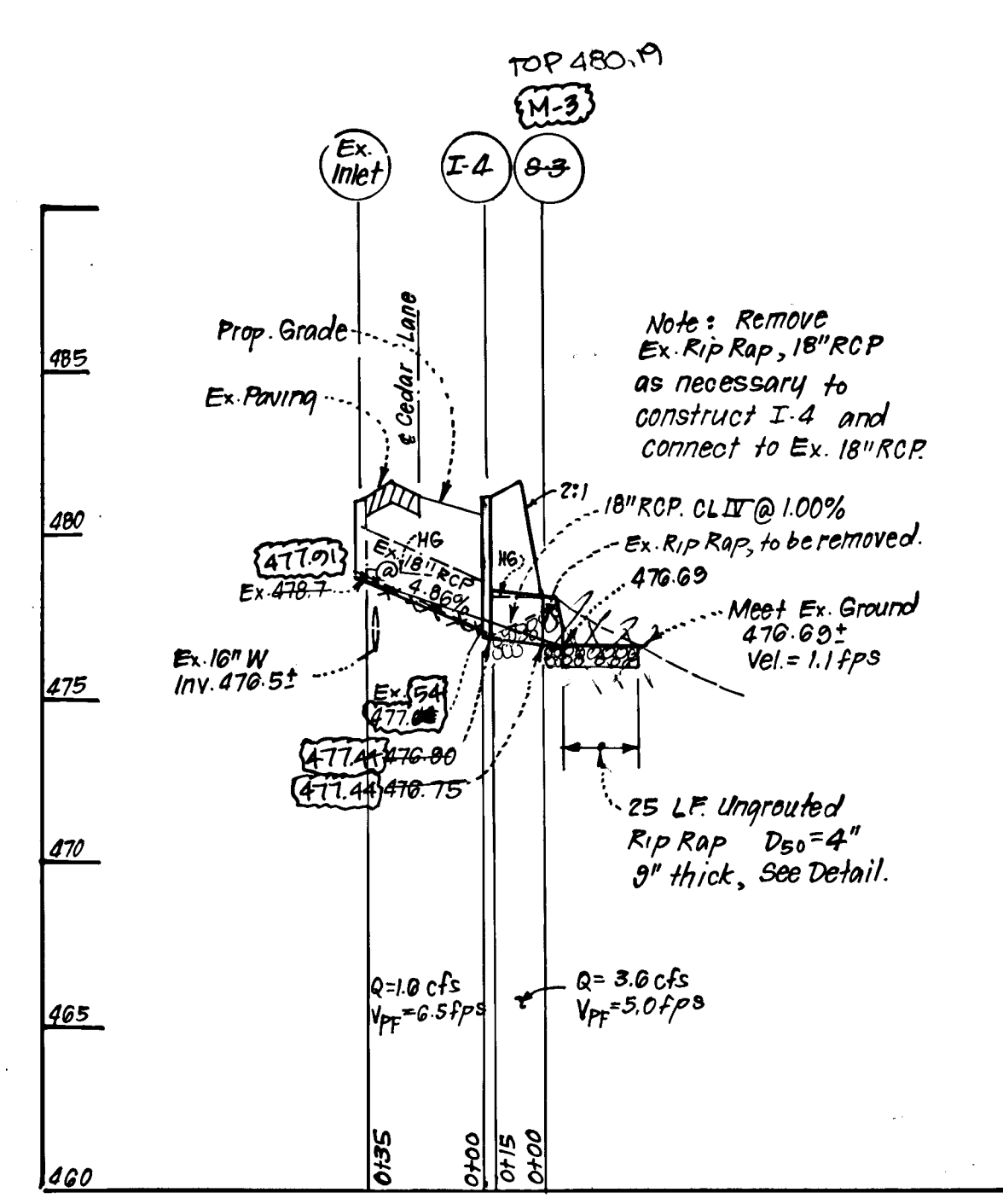
PROFILE SCALE  
 HORIZ. 1"=50'  
 VERT. 1"=5'



STRUCTURE SCHEDULE Δ							
STR. No.	TYPE	INV. IN	INV. OUT	TOP ELEVATION		REMARKS	LOCATION
				UPPER	LOWER		
I-1	A-10 Inlet	452.83	452.83	460.5	457.0	Ho. Co. Sid. SD 4.02 W-2'6"	Str. Sta. 8+22 Cedar La. 19' RT.
I-2	A-10 Inlet	458.1	458.1	457.0	461.2	Ho. Co. Sid. SD 4.02 W-2'6"	Str. Sta. 12+38 Cedar La. 38' RT.
I-3	Gene End Section	476.75	476.75	476.24	480.10	Ho. Co. Sid. SD 5.51 W-18'8"	Str. Sta. 23+08 Cedar La. 38' RT.
I-4	A-10 Inlet	477.0	477.0	476.43	481.20	Ho. Co. Sid. SD 4.02 W-2'6"	Str. Sta. 23+08 Cedar La. 19' RT.
I-5	θ Inlet A-10 Inlet	-	-	458.22	461.83	Ho. Co. Sid. SD 4.02 W-2'6"	Str. Sta. 12+31 Cedar La. 41' RT.

PIPE SCHEDULE			
STR. No.	TYPE	INV. IN	INV. OUT
I-6	A-5	459.95	459.95
I-7	A-5	466.46	466.46



**STORM DRAIN PROFILES**  
SCALE: HORIZ: 1"=50'  
VERT: 1"=5'

Reviewed for Howard S.C.D. Name and meets Technical Requirements Signature Date U.S. Soil Conservation Service

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

DEVELOPER'S/BUILDER'S CERTIFICATE I/We certify that all development and construction will be done according to this plan of development and plan for erosion and sediment control and that all responsible personnel involved in the construction project will have a Certificate of Attendance at a Dept. of Natural Resources Approved Training Program for the Control of Sediment and Erosion before beginning the project. I also authorize periodic on-site inspection by the Howard Soil Conservation District or their authorized agents, as are deemed necessary. Signature of Developer/Builder Date

ROAD AS-BUILT RICHARD F. LANE DATE 11-17-90 SHANABERGER & LANE 8726 TOWN & COUNTRY BLVD. SUITE 107 ELLICOTT CITY, MARYLAND 21043

ENGINEER'S CERTIFICATE I hereby 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. Signature Date

APPROVED: HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS. Chief, Land Development Division. Chief, Bureau of Highways. Chief, Bureau of Engineering. APPROVED: HOWARD COUNTY OFFICE OF PLANNING & ZONING. Chief, Division of Community Planning & Land Development.

CLARK · FINEFROCK & SACKETT, INC. ENGINEERS · PLANNERS · SURVEYORS. 7135 MINTREL WAY COLUMBIA, MARYLAND 21045 301-381-7500 Bldg. 301-621-8100 Wash. ROAD CONSTRUCTION PLANS STORM DRAIN & PAVING DETAILS SCALE As shown DRAWING 30F4 CHECKED KIW DRAWING 30F4 DATE 12-11-87 FOR: The Howard Research & Development Land Company 10275 Little Patuxent Pkwy Columbia, Md. 21044 FILE NO. 87-116-D

