

PLANT SCHEDULE				
KEY	PLANT NAME	SIZE	QUANT	REMARKS
G	Taxus P. lanceolata Washington's Green Ash	2 1/2 CAL MIN	26	8.5-8 HEAVY HEADS
M	Acer Rubrum "Red Sunser"	"	9	"
P	Quercus Palustris Pin Oak	"	10	"

CURB & GUTTER LEGEND
 Mod. Curb & Gutter
 Rev. Mod. Curb & Gutter

GENERAL NOTES

- All storm drain & paving shall be constructed in accordance with the latest edition and specifications of Howard County & MDSA.
- Types of storm drainage refer to the Standard Details of Ho. Co. & MDSA.
- Trench compaction for storm drains within road or street right-of-way limits shall be in accordance with "Ho. Co. Design Manual, Vol. III" (Class C Trench Bedding to be used for all storm drains, except where shown otherwise).
- 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, marking and signing to be done in accordance with the "Manual of Uniform Traffic Control Devices," 1984 Edition.
- Sag and Crest Vertical curves were designed in accordance with "Ho. Co. Design Manual," Vol. III.
- Provide concrete sidewalk ramps: Ho. Co. Std. Type A, R-4.01 where shown in plan.
- Design Speed: 30 mph.
- The contractor or developer shall contact the Construction Inspection/Survey Division 48 hrs. in advance of commencement of work. Ph. 772-7272.
- Street light to be 150 watt modern high pressure sodium vapor post top on 14' fiberglass pole. Street light to be located in accordance with Ho. Co. Design Manual, Vol. III.

CENTERLINE CURVE DATA						
PC to PT	RADIUS	DELTA	ARC	TANG.	CHORD	BEARING
PC 1115.39 to PT 1193.01	500.00'	106°53'38"	77.62'	38.85'	77.54'	S59°12'40"W
PC 14149.21 to PT 15184.62	315.00'	125°27'53"	140.00'	71.18'	138.85'	S67°29'47"W

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: *[Signature]* Date: 10/5/89

Reviewed for Name: *[Signature]* Date: 10/16/89
 and meets Technical Requirements
 U.S. Soil Conservation Service
 THIS DEVELOPMENT PLAN IS APPROVED FOR SOIL EROSION AND SEDIMENT CONTROL BY THE HOWARD SOIL CONSERVATION DISTRICT.
[Signature] Date: 10/16/89

File Ref. Nos: F-86-115; F-86-117; S-86-85; S-87-33, VP-88-10.

APPROVED: DEPARTMENT OF PUBLIC WORKS	Date
<i>[Signature]</i>	11/2/89
<i>[Signature]</i>	11/2/89
<i>[Signature]</i>	10/26/89
<i>[Signature]</i>	11/5/89

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: 10-5-89
 G. Nelson Clark

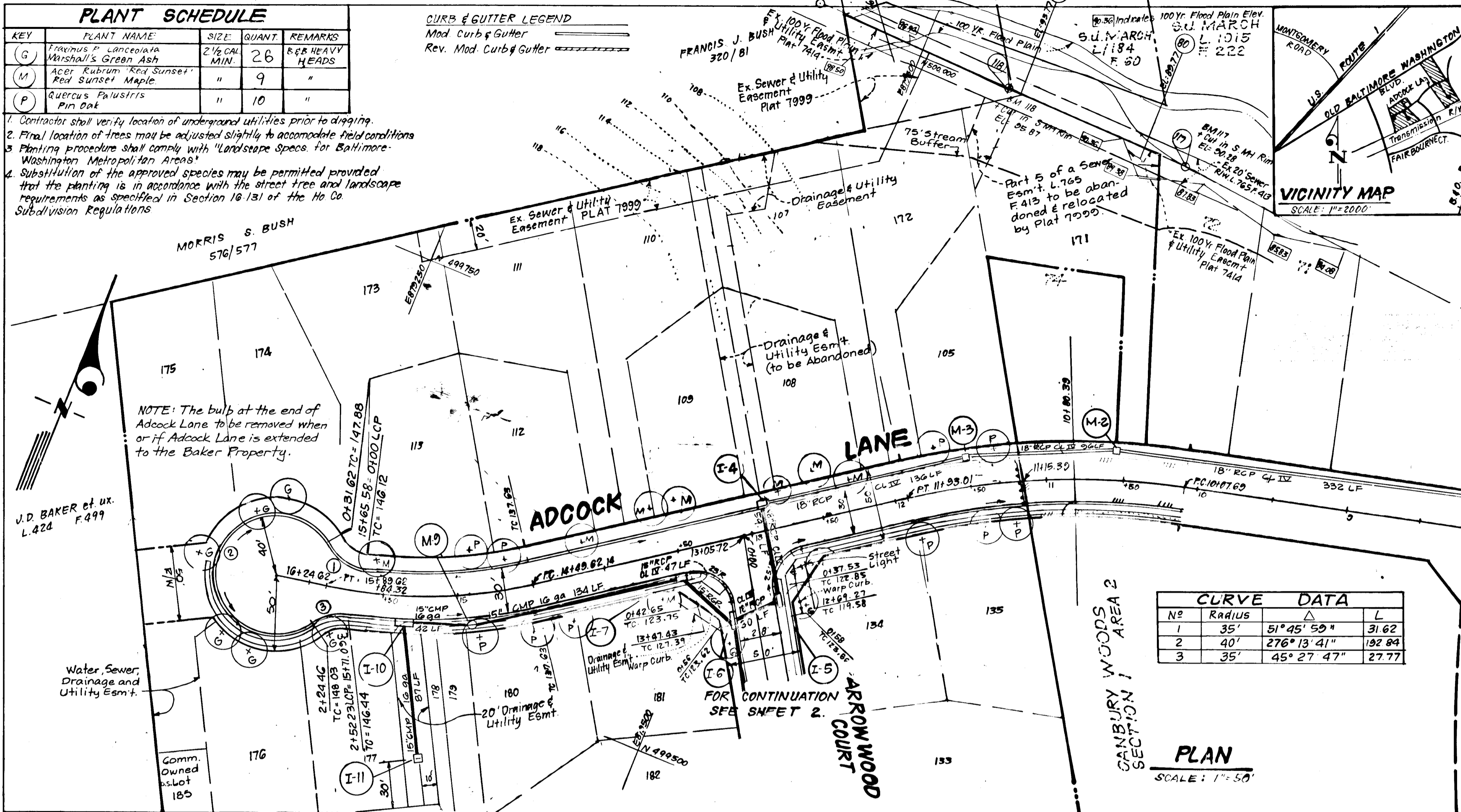
CLARK FINEFROCK & SACKETT, INC.
 ENGINEERS PLANNERS SURVEYORS
 7135 MINSTREL WAY COLUMBIA, MARYLAND 21045 (301) 381-7500

DESIGNED	SCALE
E.P.	As Shown
DRAWN	DRAWING
R.W.	10-F-5
CHECKED	JOB NO.
E.P.	85-085
DATE	FILE NO.
7-27-89	85-085-D

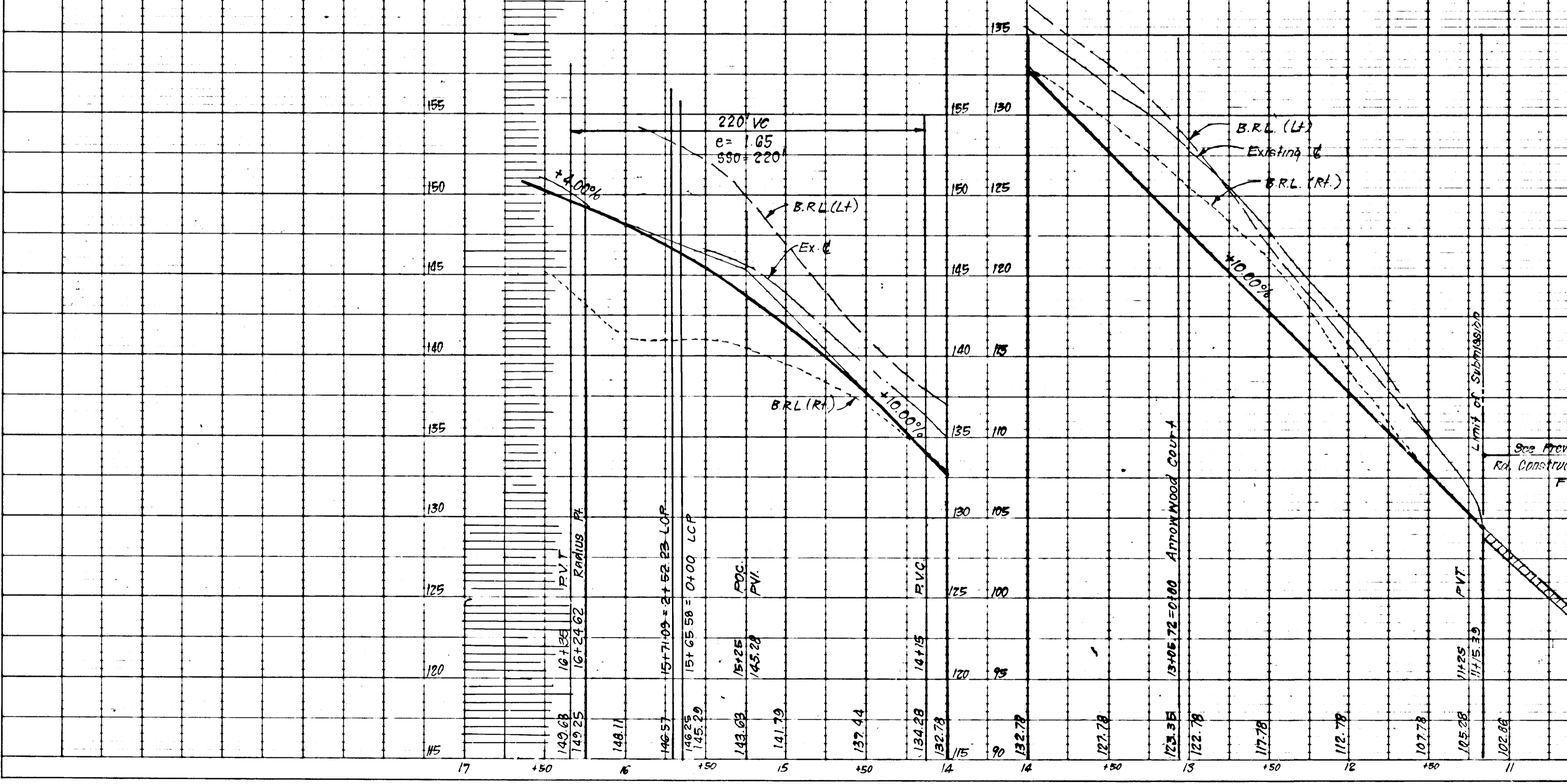
FOR: ELKBRIDGE LIMITED PARTNERSHIP
 3030 Red Branch Rd Suite 20
 Columbia Md 21045

CURVE DATA			
No	Radius	Δ	L
1	35'	51°45'59"	31.62'
2	40'	276°13'41"	192.84'
3	35'	45°27'47"	27.77'

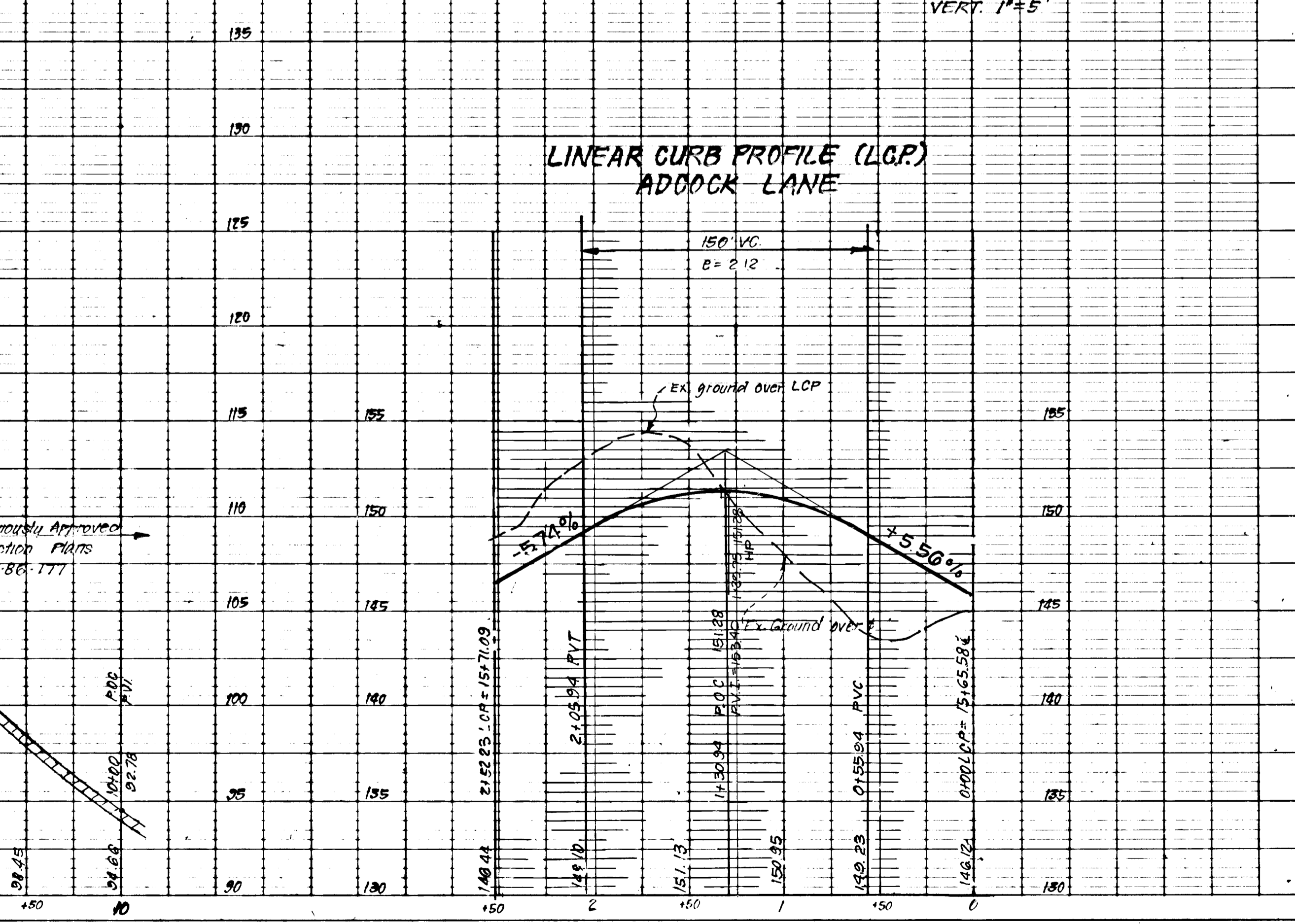
PLAN
 SCALE: 1"=50'



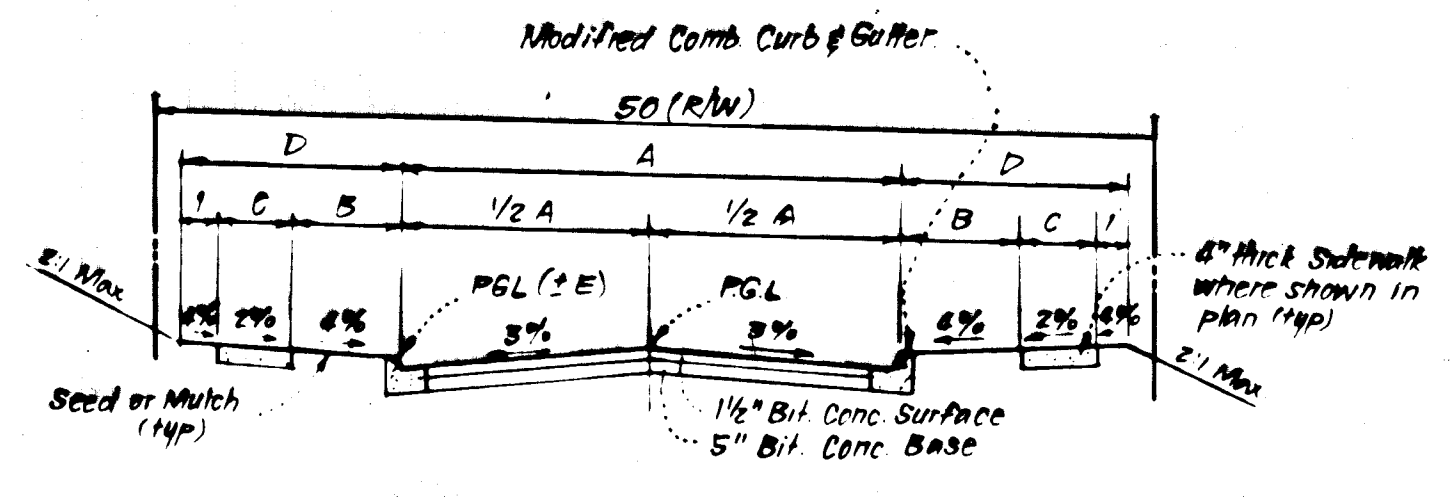
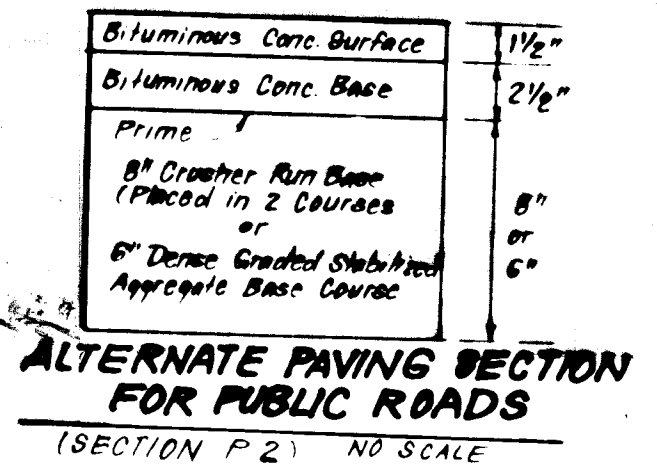
PROFILE - ADCOCK LANE



**LINEAR CURB PROFILE (L.C.P.)
 ADCOCK LANE**

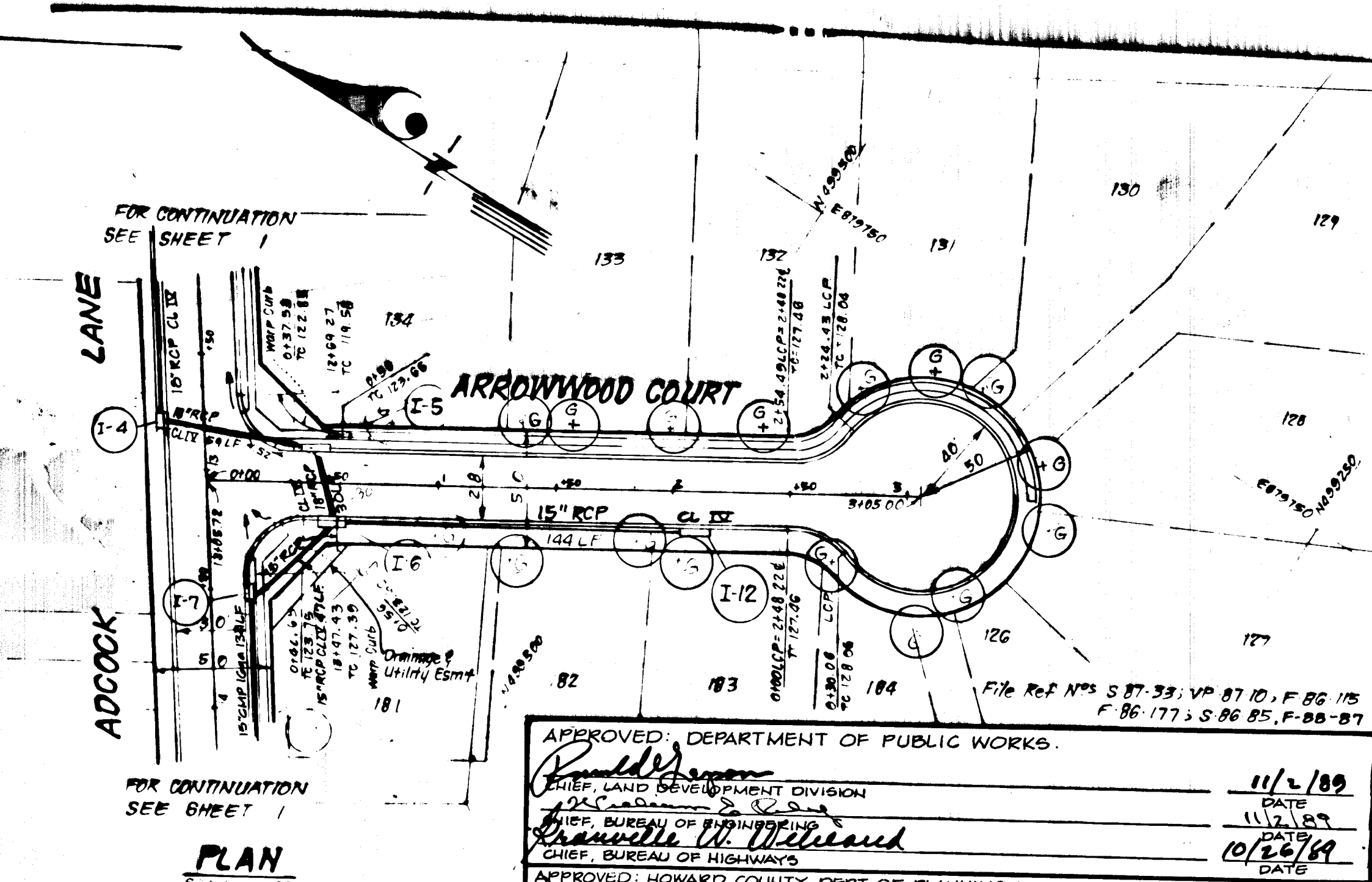
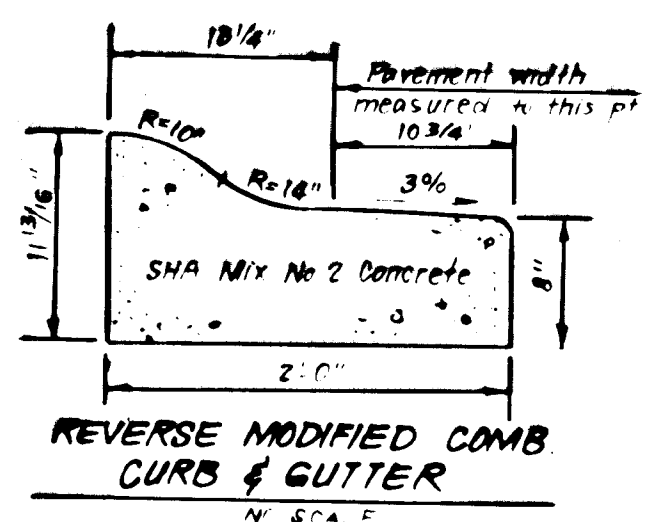
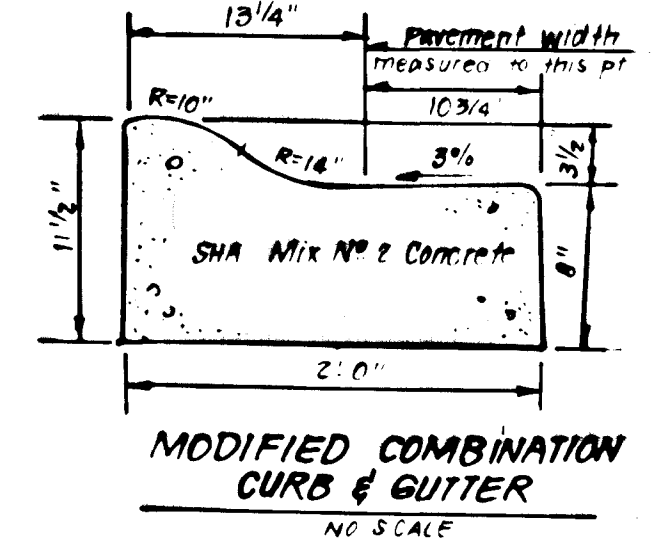


1228



* For Alternate Paving Section See det this sheet

STREET NAME & STATION	TYPE OF TRAFFIC	A	B	C	D	R/W	ZONING	DESIGN SPEED	E
Adcock LA 11+00.00 to 16+24.02	LOCAL	3'	4'	4'	9'	50'	R 12	30 mph	13
Arrowwood (1+00 to 3+00)	side Sac	2'	4'	4'	9'	50'	R 12	30 mph	13

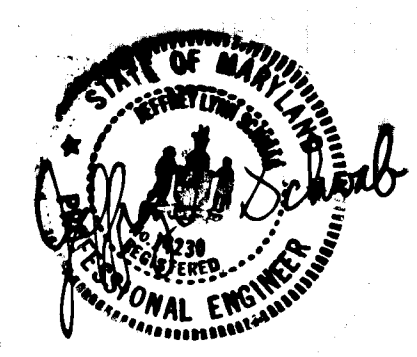


APPROVED: DEPARTMENT OF PUBLIC WORKS.
 Chief, Land Development Division: *[Signature]* 11/2/89 DATE
 Chief, Bureau of Engineering: *[Signature]* 11/2/89 DATE
 Chief, Bureau of Highways: *[Signature]* 10/26/89 DATE
 APPROVED: HOWARD COUNTY DEPT. OF PLANNING & ZONING
 Chief, Division of Community Planning and Land Development: *[Signature]* 11/2/89 DATE

CLARK FINEROCK & SACKETT, INC.
 ENGINEERS PLANNERS SURVEYORS
 7155 MINSTREL WAY • COLUMBIA, MD. 21045 • (301) 561-7500 - BALTO. • (301) 621-8100 - WASH.

DESIGNED EP	ROAD CONSTRUCTION PLANS ARROWWOOD COURT	SCALE AS SHOWN
DRAWN KIW	CANBURY WOODS	DRAWING 20F5
CHECKED EP	SECTION 2 AREA 1ST ELECTION DISTRICT HOWARD COUNTY, MARYLAND	JOB NO 85-085
DATE 7-27-89	ELKRIEGE LIMITED PARTNERSHIP 3030 Red Branch Road # 210 Columbia, Md. 21045	FILE NO 85-085-D

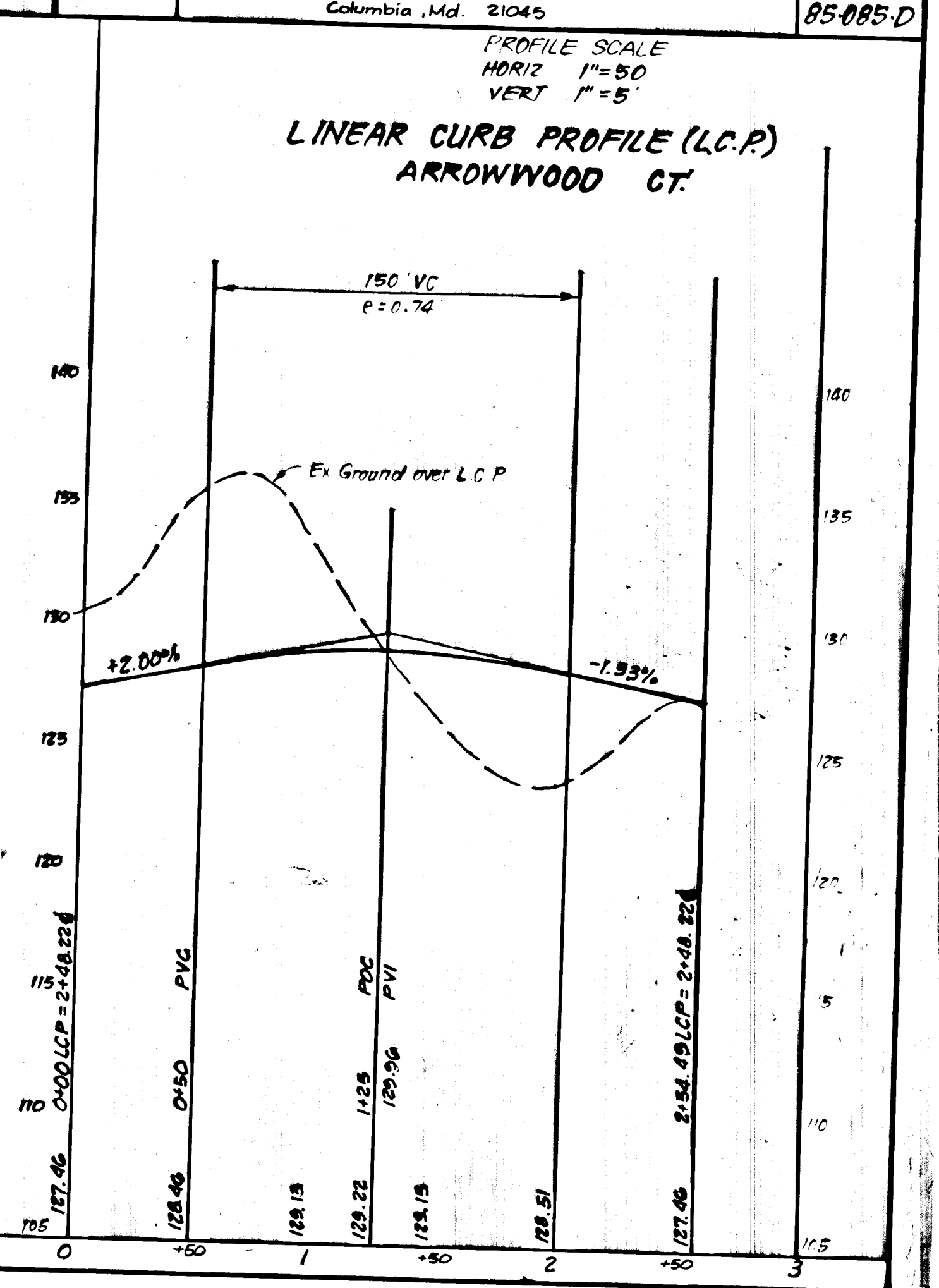
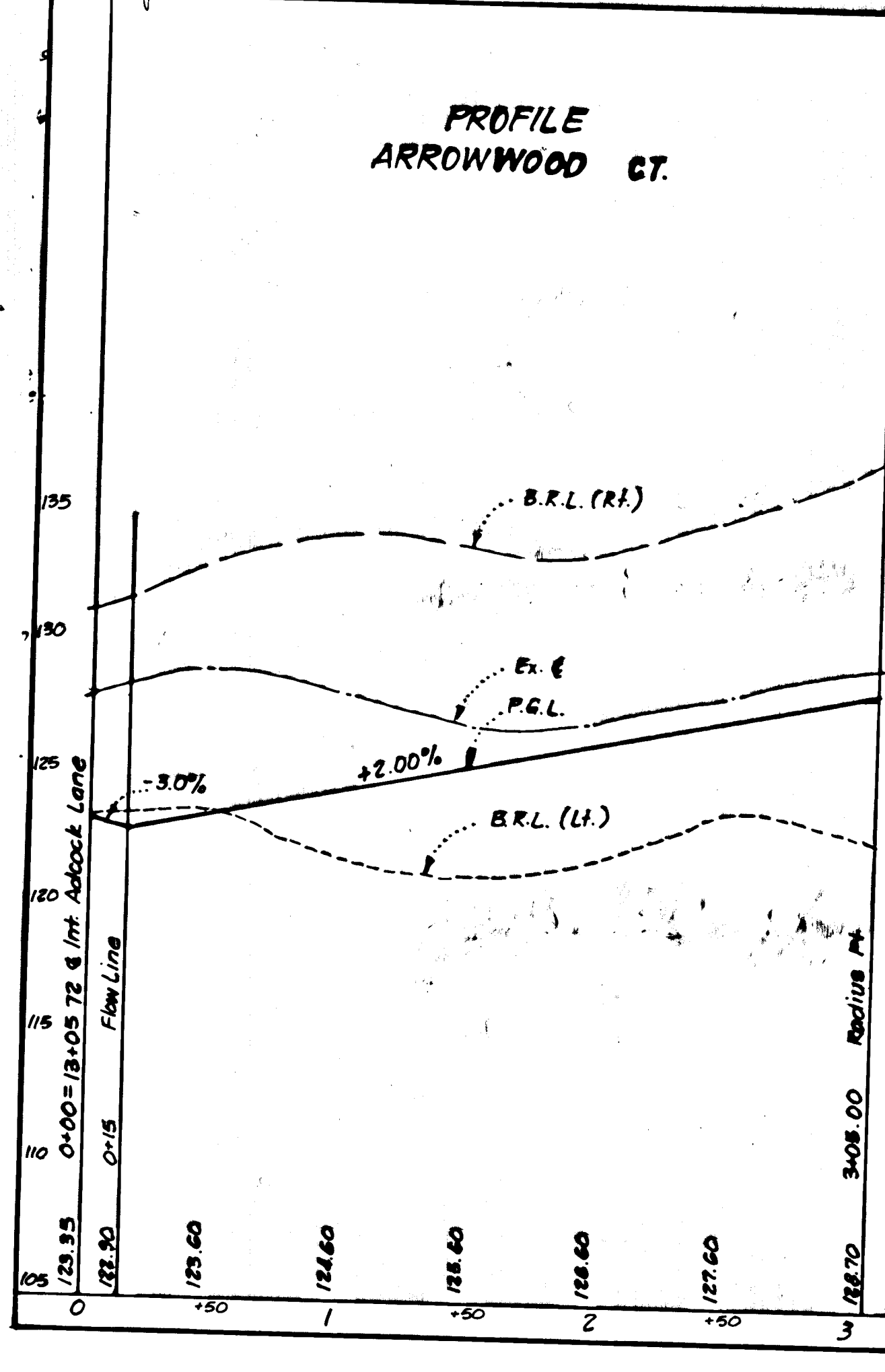
ENGINEER'S CERTIFICATE
 I hereby certify that this plan for Erosion and Sediment Control represents a practical and workable plan based on my personal knowledge of the site conditions and that it was prepared in accordance with the requirements of the Howard Soil Conservation District.
Jeffrey L. Schwab 9/15/89 Date
 Jeffrey L. Schwab

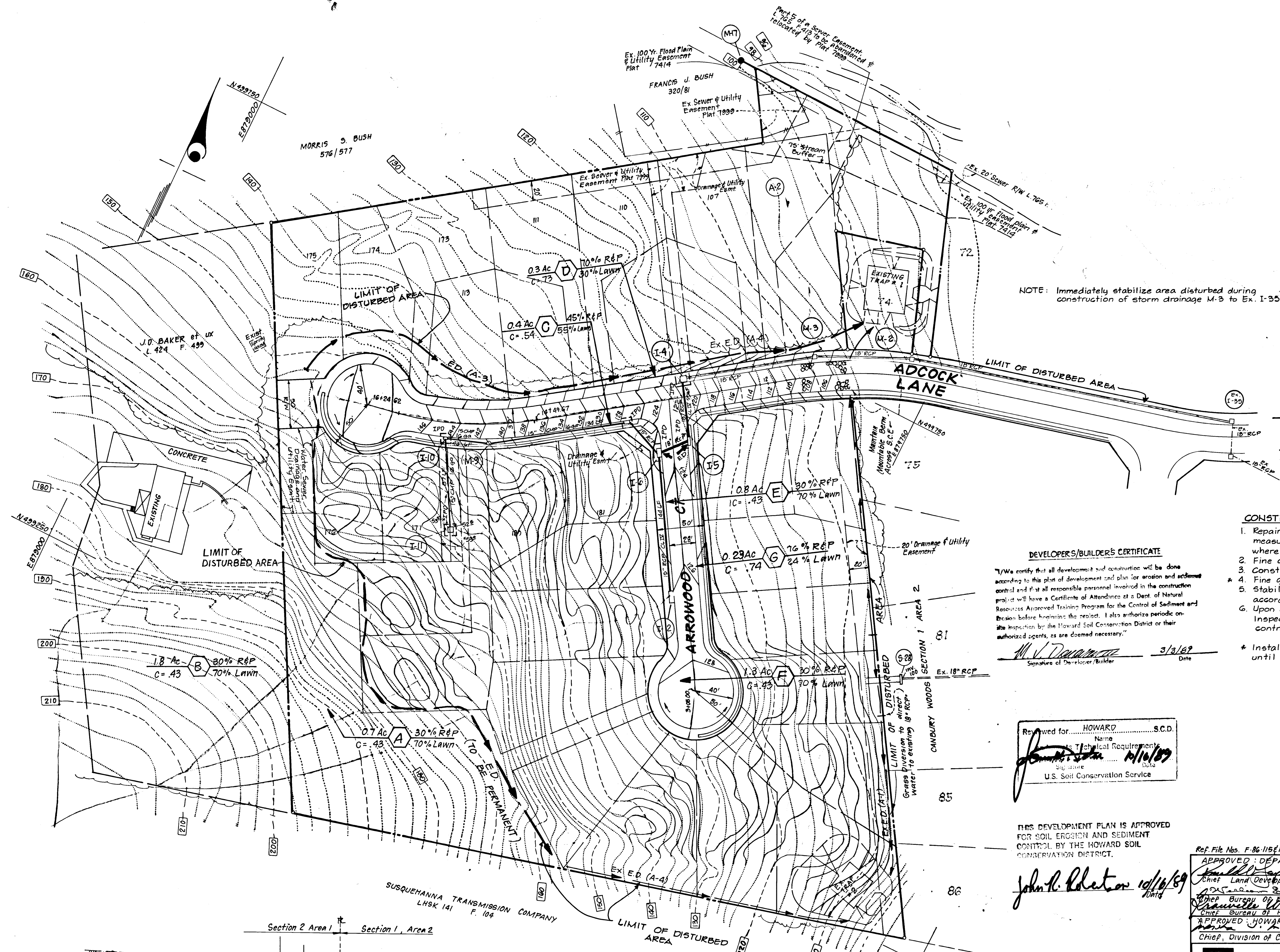
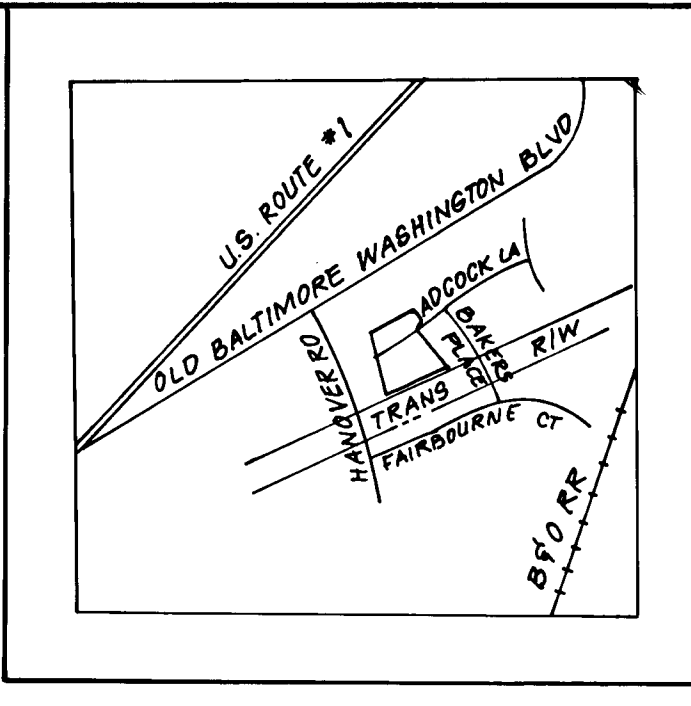


THIS DEVELOPMENT PLAN IS APPROVED FOR SOIL EROSION AND SEDIMENT CONTROL BY THE HOWARD SOIL CONSERVATION DISTRICT.
John P. Helton 10/16/89 Date
 APPROVED

Reviewed for HOWARD S.C.D.
 Name: *[Signature]*
 Signature: *[Signature]* Date: 10/16/89
 U.S. Soil Conservation Service

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.
M.V.D. [Signature] 10-2-87 Date
 Signature of Developer/Builder





NOTE: Immediately stabilize area disturbed during construction of storm drainage M-3 to Ex. I-35.

LEGEND

1. Contour Interval	2 FT
2. Existing Contour	---
3. Proposed Contour	---
4. Existing Earth Dike	---
5. Proposed Storm Drainage	---

- CONSTRUCTION SEQUENCE**
1. Repair and Clean-out Ex. Sediment & Control measures and install additional measures where shown.
 2. Fine grade site.
 3. Construct Storm Drainage and Utilities
 - * 4. Fine grade and construct paving.
 5. Stabilize all disturbed areas onsite in accordance with Stds. & Specs.
 6. Upon approval of the Sediment Control Inspector, remove sediment and erosion control measures and stabilize.
- * Install Temp. Asphalt Berms to divert water to inlets until surface course pavement is added.

DEVELOPER'S/BUILDER'S CERTIFICATE

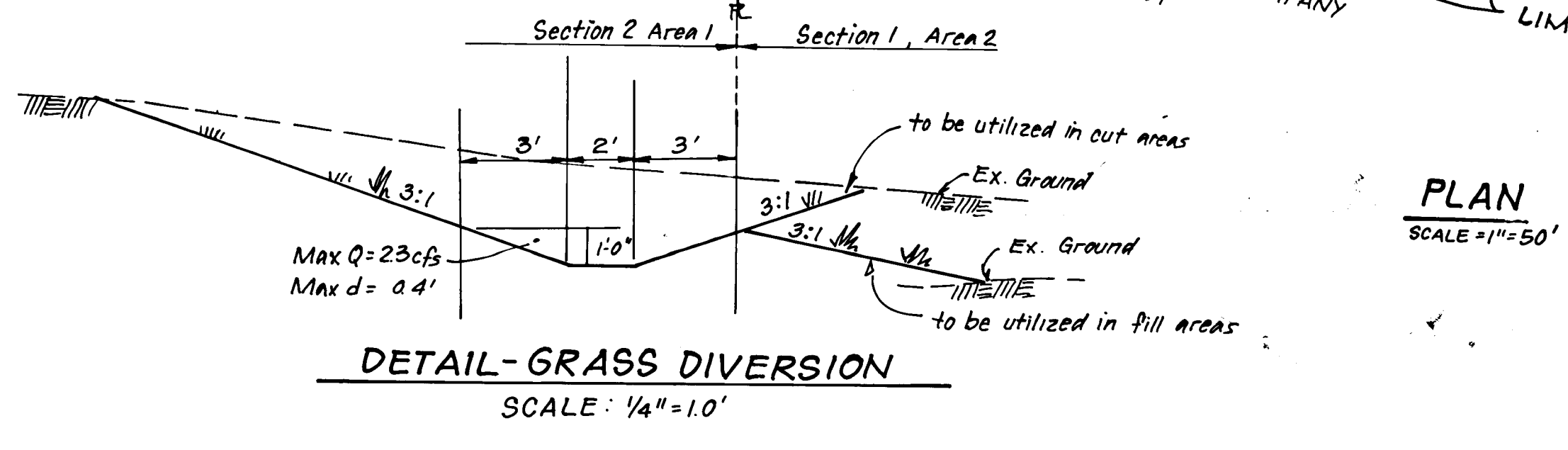
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M. J. Davanzo 3/3/89
Signature of Developer/Builder Date

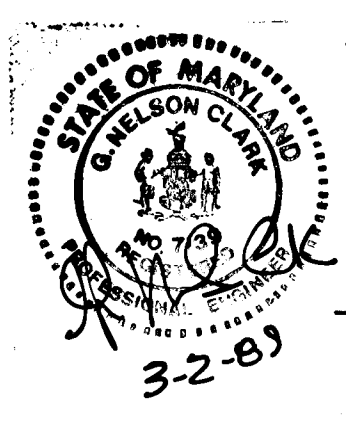
Reviewed for HOWARD S.C.D. Name: *John L. Redden* Date: *11/16/89*
Signature of Technical Representative Date
U.S. Soil Conservation Service

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

John L. Redden 11/16/89
Signature Date



PLAN
SCALE: 1"=50'



ENGINEER'S CERTIFICATE

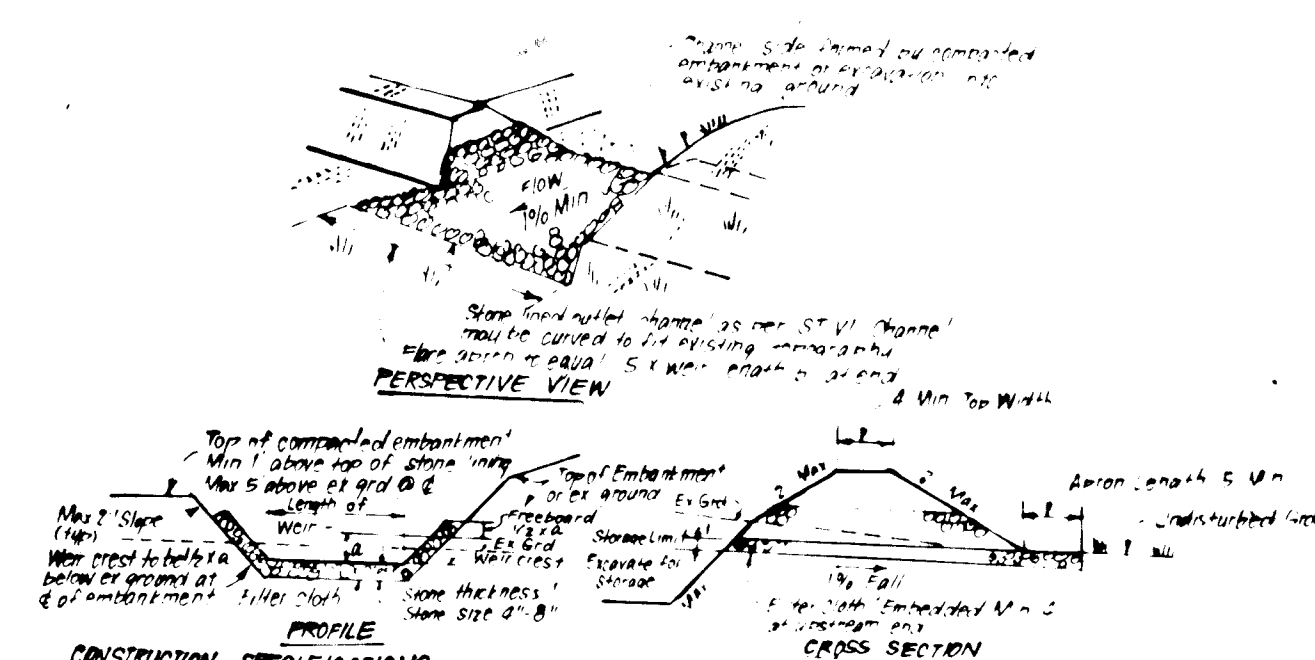
I hereby certify that this plan for Erosion and Sediment Control represents a practical and workable plan based on my personal knowledge of the site conditions and that it was prepared in accordance with the requirements of the Howard Soil Conservation District.

G. Nelson Clark 3-2-89
Signature Date

Ref. File Nos. F-86-115 & F-86-177, S-86-85, S-87-33, VP-88-10

APPROVED: DEPARTMENT OF PUBLIC WORKS	11/6/89
<i>James H. ...</i>	Date
Chief Land Development Division	
Other Bureau of Engineering	
Chief Bureau of Highways	10/25/89
APPROVED: HOWARD COUNTY DEPT. OF PLANNING & ZONING	11/2/89
Chief, Division of Community Planning and Land Development	Date

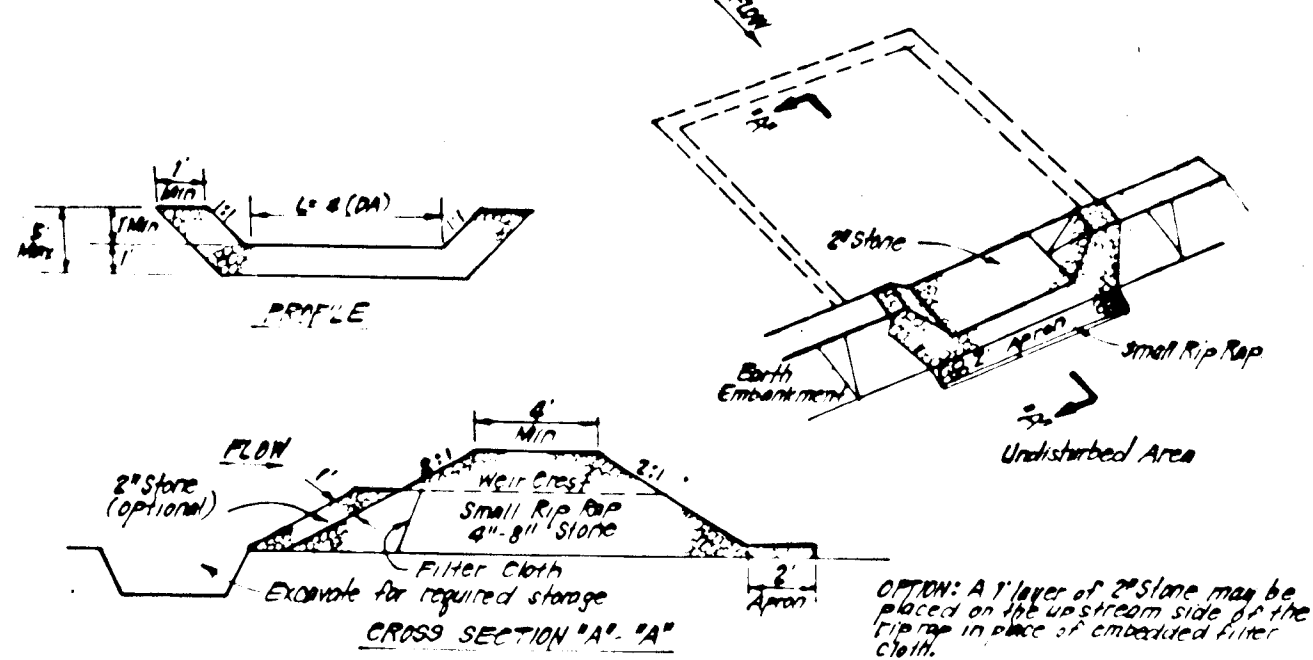
CLARK • FINEFROCK & SACKETT, INC. ENGINEERS • PLANNERS • SURVEYORS 7135 MINSTREL WAY • COLUMBIA, MD. 21045 • (301) 381-7200 - BALTO. • (301) 621-8100 - WASH.		
DESIGNED JLS	ROAD CONSTRUCTION PLANS SEDIMENT & EROSION CONTROL AND DRAINAGE AREA MAP	SCALE 1"=50'
DRAWN GS/PER	CANBURY WOODS	DRAWING 3 OF 5
CHECKED JLS	SECTION 2 AREA 1 187 ELECTION DISTRICT HOWARD COUNTY, MARYLAND	JOB NO. 85-085
DATE 8-14-89	For: ELKRIDGE LIMITED PARTNERSHIP 9030 Red Branch Rd. Suite 210 Columbia, Maryland 21045	FILE NO. 85-085-D



CONSTRUCTION SPECIFICATIONS:

- The site shall be cleared, grubbed and stripped of any vegetation and topsoil.
- The riprap outlet shall be constructed of 2' x 4' construction grade lumber.
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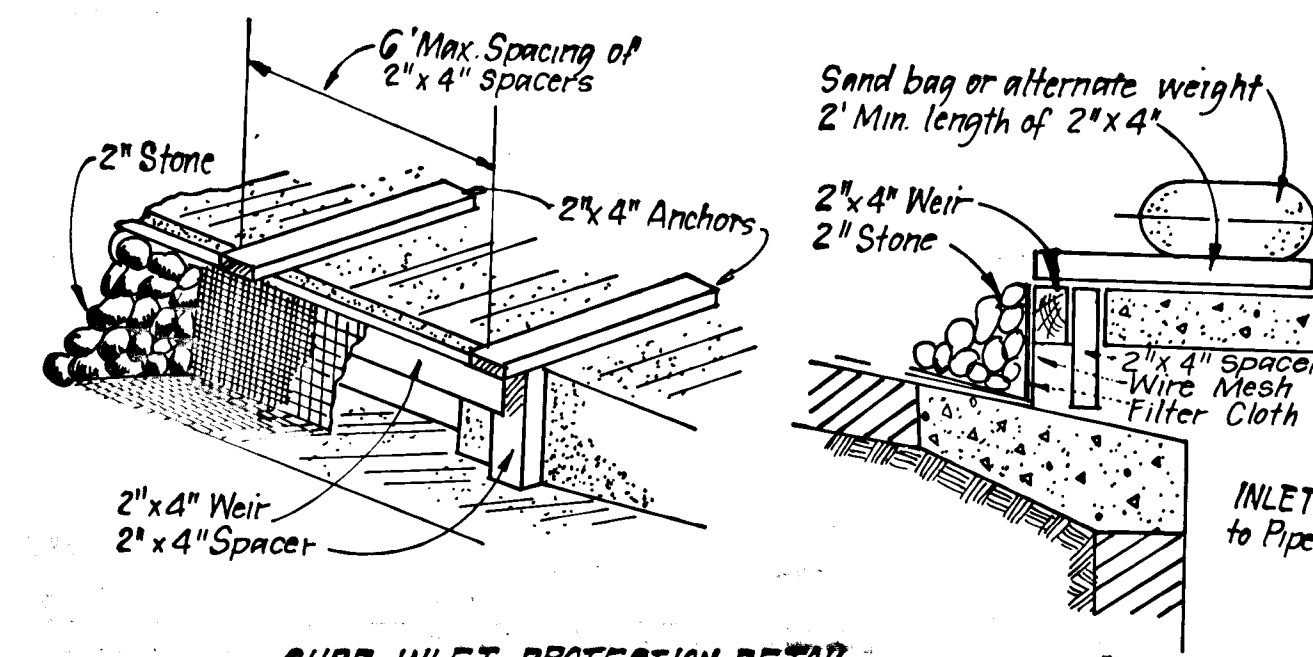
RIPRAP OUTLET SEDIMENT TRAP - ST. VI



CONSTRUCTION SPECIFICATIONS:

- The structure shall be constructed of 2' x 4' construction grade lumber.
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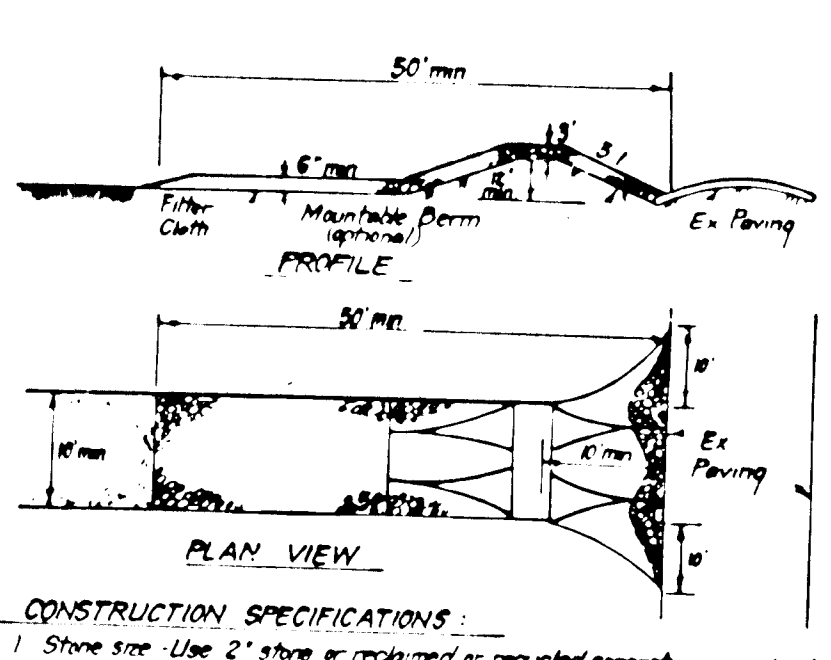
STONE OUTLET SEDIMENT TRAP (S.O.S.T.) ST.V



CONSTRUCTION SPECIFICATIONS:

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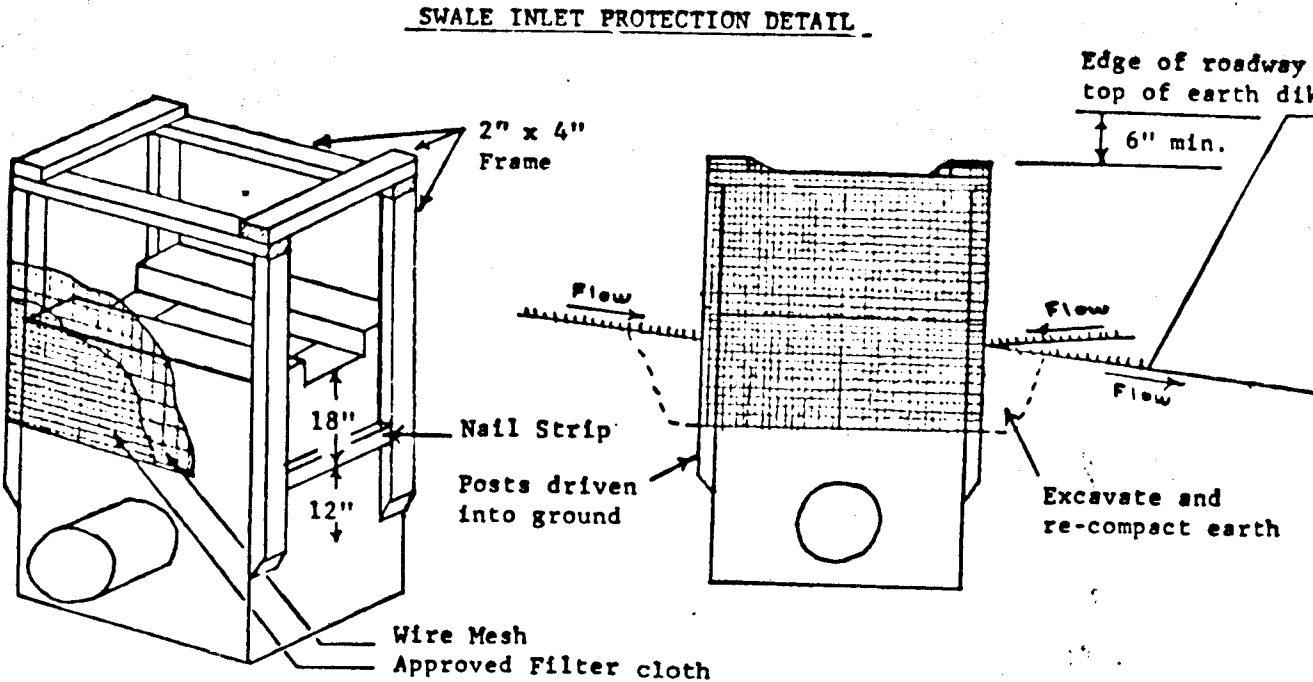
INLET PROTECTION DETAIL (I.P.D.)



CONSTRUCTION SPECIFICATIONS:

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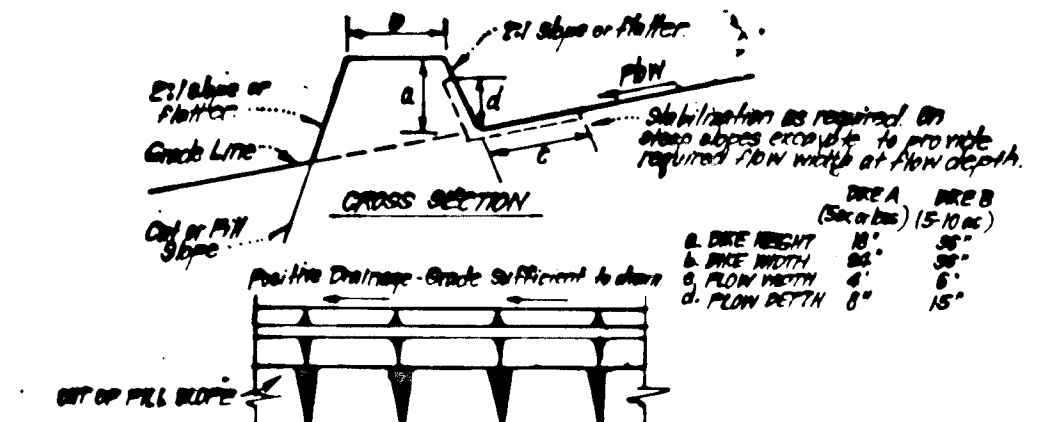
STABILIZED CONSTRUCTION ENTRANCE (SCE)



STANDARD SYMBOL

CONSTRUCTION SPECIFICATIONS:

- The structure shall be constructed of 2' x 4' construction grade lumber.
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CONSTRUCTION SPECIFICATIONS:

- The dike shall be constructed of 2' x 4' construction grade lumber.
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EARTH DIKE DETAIL (E.D.)

TYPE OF PROTECTION	CHANNEL	DIKE A	DIKE B
1	0.5 - 0.75'	2' x 4' Lumber	2' x 4' Lumber
2	0.75 - 1.0'	2' x 4' Lumber	2' x 4' Lumber
3	1.0 - 1.5'	2' x 4' Lumber	2' x 4' Lumber

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.

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

- Preferred - Apply 2 tons per acre dolomitic limestone (92 lbs/1000 sq ft) and 600 lbs per acre 10-10-10 fertilizer (14 lbs/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/1000 sq ft).
- Acceptable - Apply 2 tons per acre dolomitic limestone (92 lbs/1000 sq ft) and 1000 lbs per acre 10-10-10 fertilizer (23 lbs/1000 sq ft) before seeding. Harrow or disc into upper three inches of soil.

Seeding - For the periods March 1 thru April 30, and August 1 thru October 15, seed with 60 lbs per acre (1.4 lbs/1000 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 (.05 lbs/1000 sq ft) of weeping lovegrass. During the period of October 16 thru February 28, protect site by: Option (1) 2 tons per acre of well anchored straw mulch and seed as soon as possible in the spring. Option (2) Use seed. Option (3) Seed with 60 lbs/acre Kentucky 31 Tall Fescue and mulch with 2 tons/acre well anchored straw.

Mulching - Apply 14 to 2 tons per acre (70 to 90 lbs/1000 sq ft) of untreated small grain straw immediately after seeding. Anchor mulch immediately after application using mulch anchoring tool or 218 gallons per acre (5 gal/1000 sq ft) of emulsified asphalt on flat areas. On slopes 8 feet or higher, use 348 gallons per acre (8 gal/1000 sq ft) for anchoring.

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

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, disking or other acceptable means before seeding.

Soil Amendments: Apply 600 lbs per acre 10-10-10 fertilizer (14 lbs/1000 sq ft).

Seeding - For periods March 1 thru April 30 and from August 15 thru November 15, seed with 24 bushel per acre of annual ryegrass (3.2 lbs/1000 sq ft). For the period May 1 thru August 14, seed with 3 lbs per acre of weeping lovegrass (.07 lbs/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 seed.

Mulching - Apply 14 to 2 tons per acre (70 to 90 lbs/1000 sq ft) of untreated small grain straw immediately after seeding. Anchor mulch immediately after application using mulch anchoring tool or 218 gal per acre (5 gal/1000 sq ft) of emulsified asphalt on flat areas. On slopes 8 ft or higher, use 348 gal per acre (8 gal/1000 sq ft) for anchoring.

Refer to the 1983 HARTLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL for rate and methods not covered.

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

Approved: *John F. Robinson* 10/16/89

Reviewed for: HOWARD COUNTY S.C.D. meets Title 11-11-10/16/89 U.S. Soil Conservation Service

DEVELOPERS/BUILDERS 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 certify periodic on-site inspections by the Howard Soil Conservation District or their authorized agents will be made as necessary.

Approved: *M.V. D... 3/3/89*

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 2-B County Erosion District.

Approved: *G. Nelson Clark* 3-2-89 Date

File Ref No: F-86 115; F-86 177; S-86 85; S-87 33; VP 88 10

APPROVED: DEPARTMENT OF PUBLIC WORKS.

Paul H. ... 11/2/89 Date
Thomas W. ... 10/22/89 Date

APPROVED: HOWARD COUNTY DEPT. OF PLANNING AND ZONING.

Paul H. ... 11/2/89 Date

Chief, Division of Community Planning and Land Development

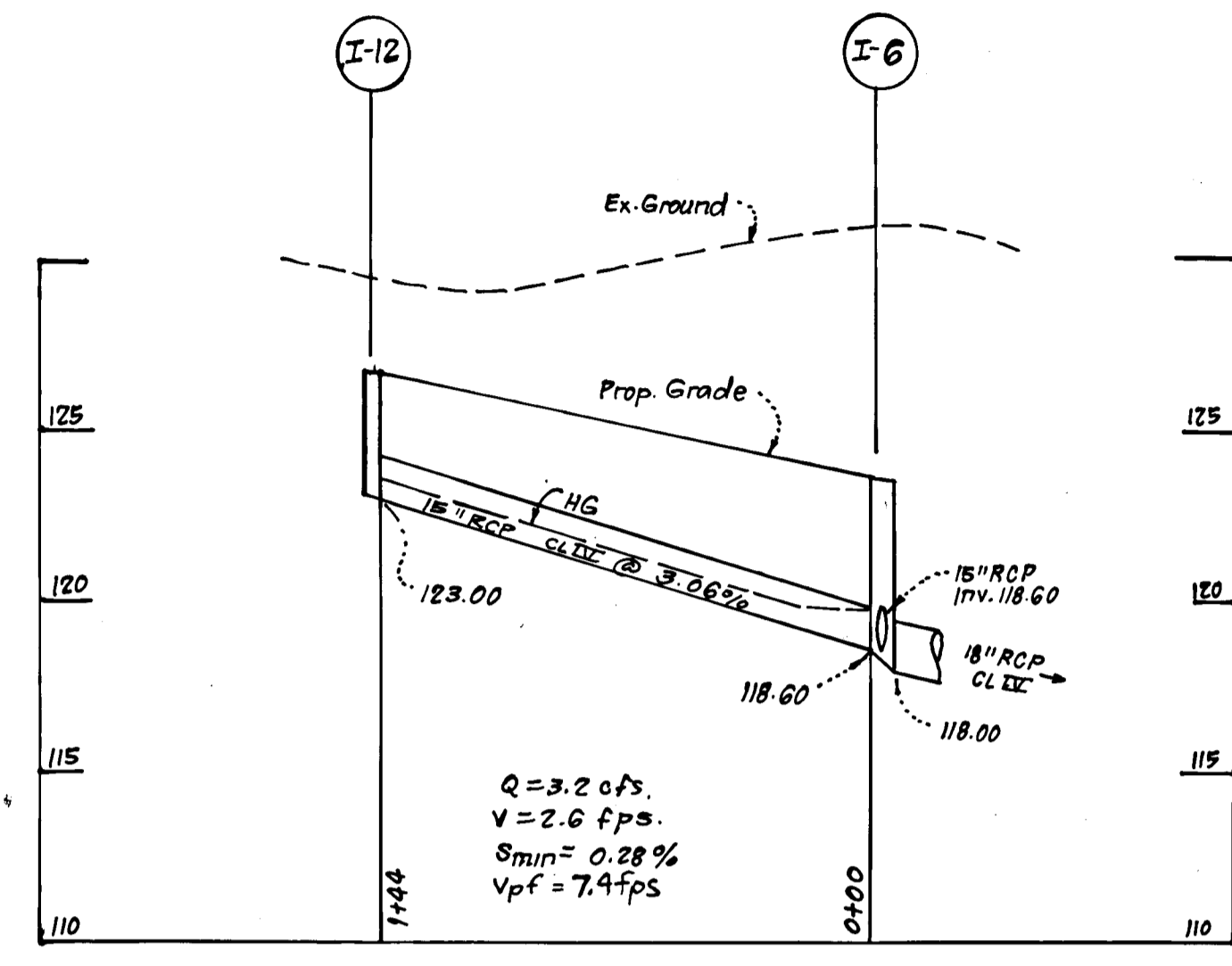
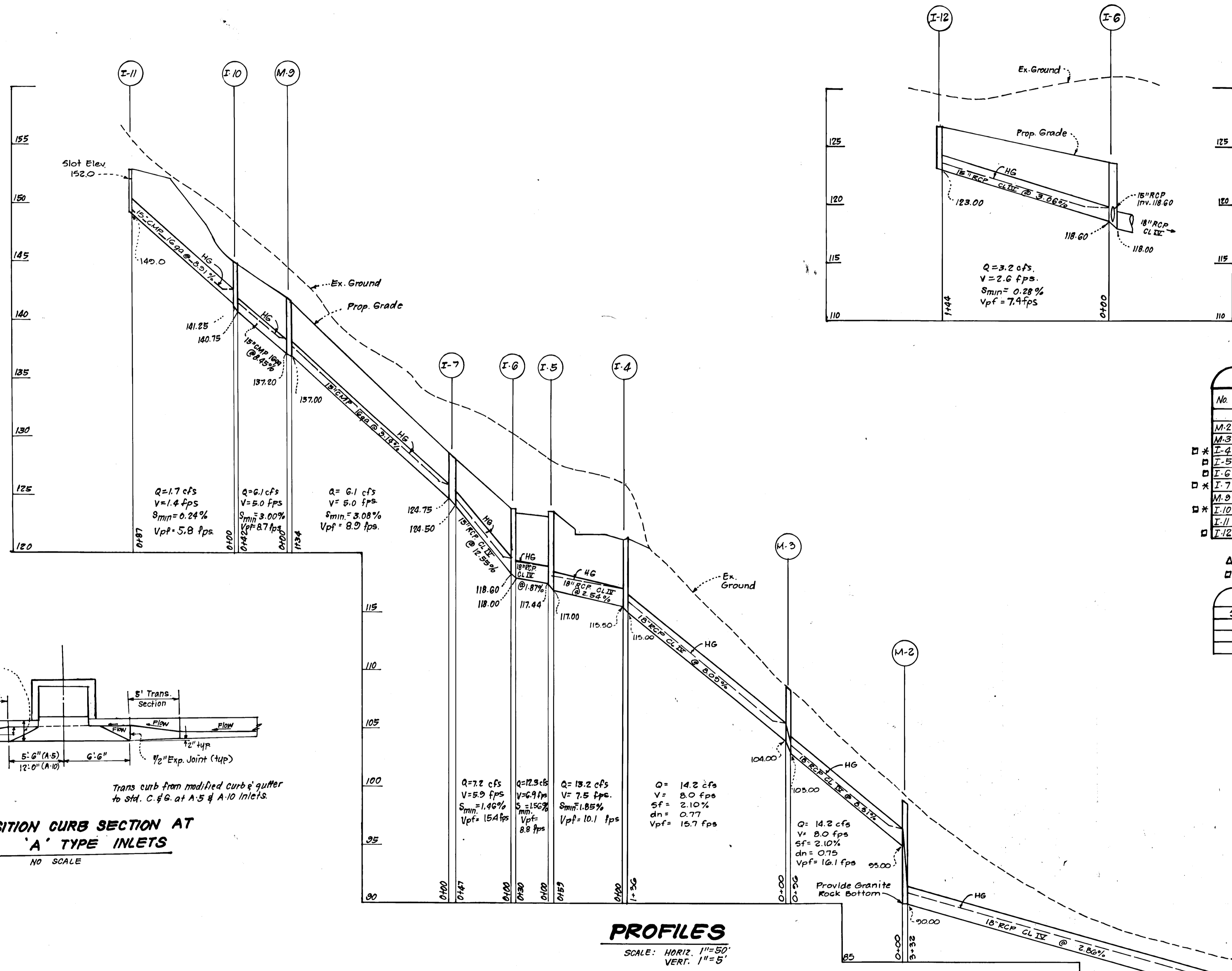
CLARK • FINEFROCK & SACKETT, INC.
 ENGINEERS • PLANNERS • SURVEYORS

7135 MINISTREL WAY • COLUMBIA, MD. 21046

DESIGNED	ROAD CONSTRUCTION PLANS SEDIMENT & EROSION CONTROL AND	SCALE
E.P.		1"=50'
DRAWN		DRAWING
K.W.		4 of 5
CHECKED		JOB NO.
E.P.		85-085
DATE	10/27-89	FILE NO.
		85-085-D

SECTION 2 AREA 1
 1ST EROSION DISTRICT
 HOWARD COUNTY, MARYLAND
 9030 Red Branch Rd Suite 210
 Columbia, Md 21045

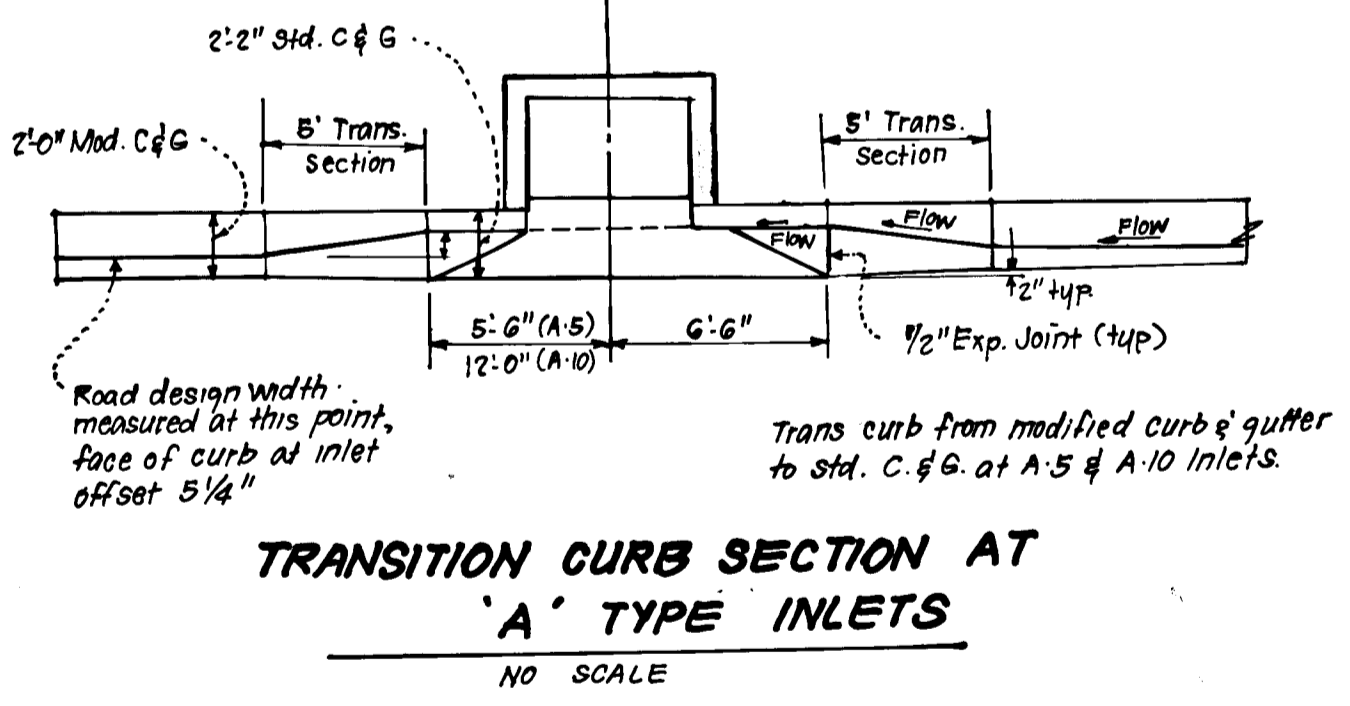
F-89-170



STRUCTURE SCHEDULE Δ							
No.	TYPE	INV. IN	INV. OUT	TOP ELEVATION		REMARKS	LOCATION
				UPPER	LOWER		
M-2	Standard Manhole	99.00	90.00		Ex. Grade	Ho. Co. Std. G 5.01	4' Rd. E 10+57 20' RT
M-3	Shallow Manhole	104.00	103.00		Ex. Grade	G 5.05	4' Sq. E 11+47 20' RT
I-4	A-5 Inlet w/Vertec	115.50	115.00	121.65	121.05	SD 4.01	W=2'-6" Low End 18+84 15.44' RT
I-5	A-10 Inlet	117.44	117.00	123.50	123.02	SD 4.02	W=2'-6" Low End 0+40.53 14.44' LT
I-6	A-10 Inlet	118.60	118.00	123.72	123.58	SD 4.02	W=2'-6" Low End 0+49.65 14.44' RT
I-7	A-5 Inlet w/DeFlec.	124.75	124.50	128.29	127.62	SD 4.01	W=2'-6" Low End 13+50.43 15.44' RT
M-8	Shallow Manhole	137.20	137.00		141.12	G 5.05	4' Sq. @ MH 14+92 20' LT
I-10	A-10 Inlet w/DeFlec.	141.25	140.75	145.26	144.62	SD 4.02	W=2'-6" Low End 15+36 14.44' LT
I-11	D Inlet	-	149.00		152.85	SD 4.11	Sec Plan
I-12	A-10 Inlet	-	123.00		126.57	SD 4.02	W=2'-6" Low End 17+00 14.44' RT

Δ All inverts to be fully developed, except str. M-2.
 □ See No. Co. Std. R-3.06 this str.

PIPE SCHEDULE		
Size	Type	Length
15"	RCP CL IV	191 LF
18"	RCP CL IV	453 LF
15"	CMP 16.9a	269 LF



PROFILES
 SCALE: HORIZ. 1"=50'
 VERT. 1"=5'

Required for Howard Co. S.C.D.
 Name: *John R. Robertson*
 Signature: *John R. Robertson* 10/16/89
 U.S. Soil Conservation Service
 THIS DEVELOPMENT PLAN IS APPROVED FOR SOIL EROSION AND SEDIMENT CONTROL BY THE HOWARD SOIL CONSERVATION DISTRICT.

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: *W.V. Dawson*
 Date: 3/3/89

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: *Jeffrey Schwab*
 Date: 8/15/89



APPROVED: DEPARTMENT OF PUBLIC WORKS
 Chief, Land Development Division
 Date: 11/2/89

APPROVED: HOWARD COUNTY DEPT. OF PLANNING & ZONING
 Chief, Division of Community Planning and Land Development
 Date: 10/26/89

CLARK • FINEFROCK & SACKETT, INC.
 ENGINEERS • PLANNERS • SURVEYORS
 7135 MINSTREL WAY • COLUMBIA, MD. 21045 • (301) 381-7200 - BALTO. • (301) 621-8100 - WASH.

DESIGNED: MCB
 DRAWN: PER KIW
 CHECKED: MCB.
 DATE: 8-15-89

**ROAD CONSTRUCTION PLANS
 STORM DRAIN PROFILES**

CANBURY WOODS
 SECTION 2 AREA 1
 1ST ELECTION DISTRICT
 HOWARD COUNTY, MARYLAND

FOR ELK RIDGE LIMITED PARTNERSHIP
 3030 Red Branch Rd., Suite 210
 Columbia Md. 21045

SCALE: As Shown
 DRAWING: 5 of 5
 JOB NO.: 85-085
 FILE NO.: 85-085-D