

Note: Warm Paving (No Crown) Stem Winder Ct. Station 0+15 to 0+40.75. Provide positive drainage across intersection.

- 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. 2 (Case & Trench) Standard 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, parking and signing to be done in accordance with the "Manual of Uniform Traffic Control Devices," 1978 Edition, Ho. Co. Design Manual, Vol. 2.
  - Sign and Crest Vertical curves were designed in accordance with Ho. Co. Design Manual, Vol. 2.
  - Provide Curved Sidewalk Ramps, Ho. Co. Std. Type A, R-4.01 where shown in plan.
  - Design Speed: See table sheet 6 Zoning: RSC.
  - The contractor or developer shall contact the Construction Inspection/Survey Division 24 hrs. in advance of commencement of work. Ph. 772-7272.
  - Min. of 18" of cover shall be provided over storm drain pipes in all areas not signal graded by these plans.
  - Existing Poles shown as 1 on Plan are to be relocated.
  - Storm Water Management provided for by a Central Facility under F83-120.
  - Street lights to be provided where shown on plan. Street lights to be 18" Ht. Fiberglass Pole (Cay, Bronze or Black) 172 Watt Vapor Lamps Fixture, Placement Approx. 2'-10" Behind Curb. See Ho. Co. Design Manual Vol. 2.
  - Five days prior to beginning work, Contractor is to notify Froehling & Robertson Inc., at 447-6500, Attn. William Ochs.

**CUL-DE-SAC CURVE DATA - STEM WINDER CT.**

R	Δ	A	T	CHORD
388.00	03°34'05"	24.24	10.12	24.23
35.00	55°47'43"	34.08	18.53	32.75
40.00	28°08'34"	196.97	00	50.27
35.00	47°20'33"	28.91	15.32	28.10
412.00	04°34'27"	32.85	16.46	52.88

**CUL-DE-SAC CURVE DATA - HILLTOP LANE**

R	Δ	A	T	CHORD
73.24	1°56'55"	25.52	12.88	25.37
40.00	23°47'28"	183.22	00	50.27
35.00	73°44'25"	43.09	26.25	42.00

**PLANT SCHEDULE**

KEY	PLANT NAME	SIZE	QUANT	REMARKS
(D)	Quercus Rubra	2 1/2" CAL. MIN.	17	B&B HEAVY HEADS
(Y)	Quercus palustris	"	23	"
(K)	Acer Rubrum 'Red Sunset'	"	54	"
(G)	Acer Saccharum 'Green Mt'	"	58	"
(V)	Green Mountain Sugar Maple	"	42	"

**CENTERLINE CURVE DATA**

STATIONING	RADIUS	Δ	ARC	TAN	CHORD & BEARING
PC 100+00 TO PT 187+27	400.00	10°30'00"	87.27	43.81	87.09 S10°30'24"E
STEM WINDER CT. TO HILLTOP LANE	496.26	08°24'38"	72.84	36.49	72.77 S82°38'23"W
PC 100+00 TO PT 1956+60	104.00	56°52'23"	66.23	34.67	65.78 N70°43'06"W

**CURB & GUTTER LEGEND**

Modified Comb. Curb & Gutter  
 Std 7" Comb. Curb & Gutter  
 Rev. Modified Comb. Curb & Gutter

**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: 6-6-86

**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 of Engineer: *[Signature]* Date: 6-6-86

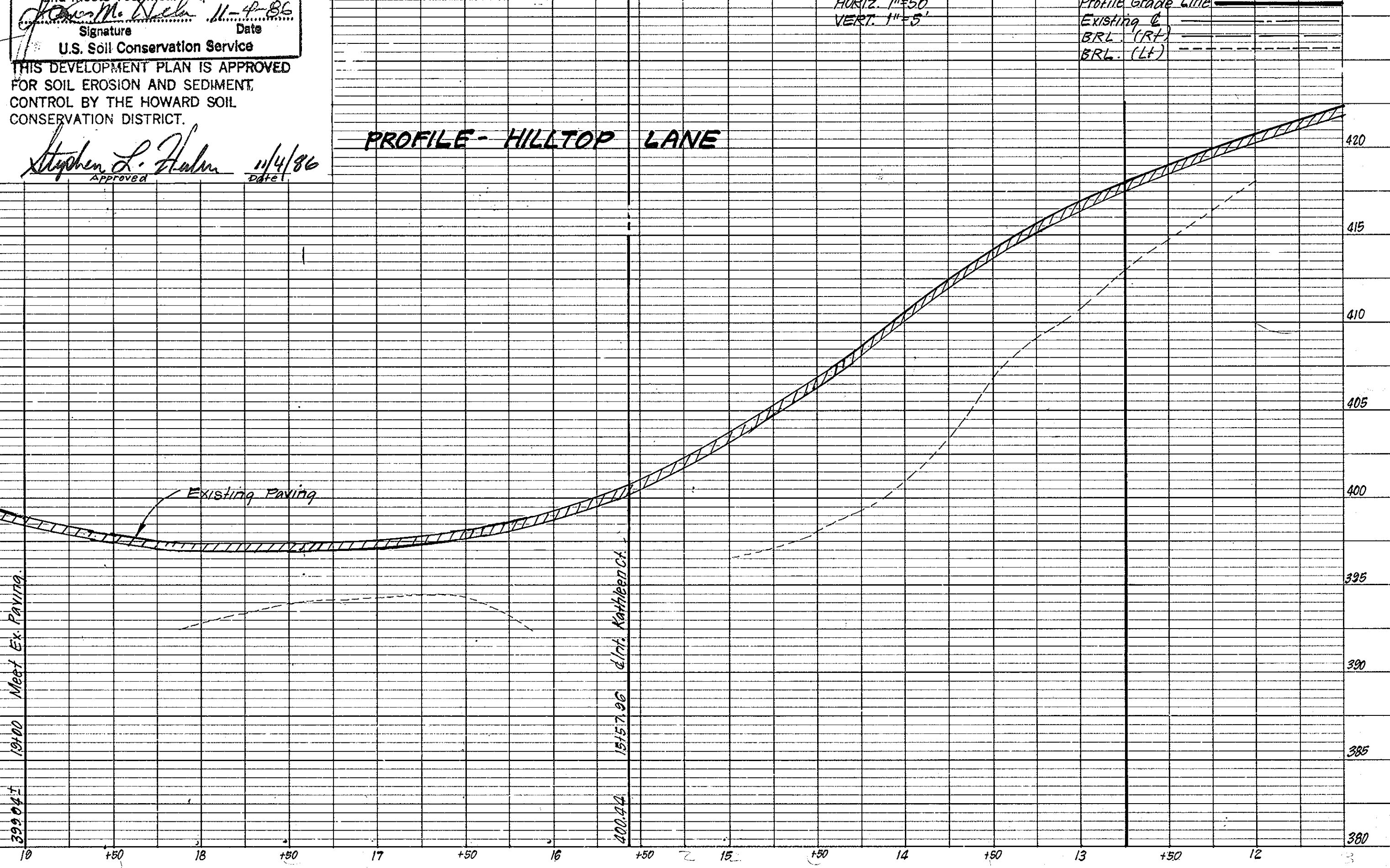
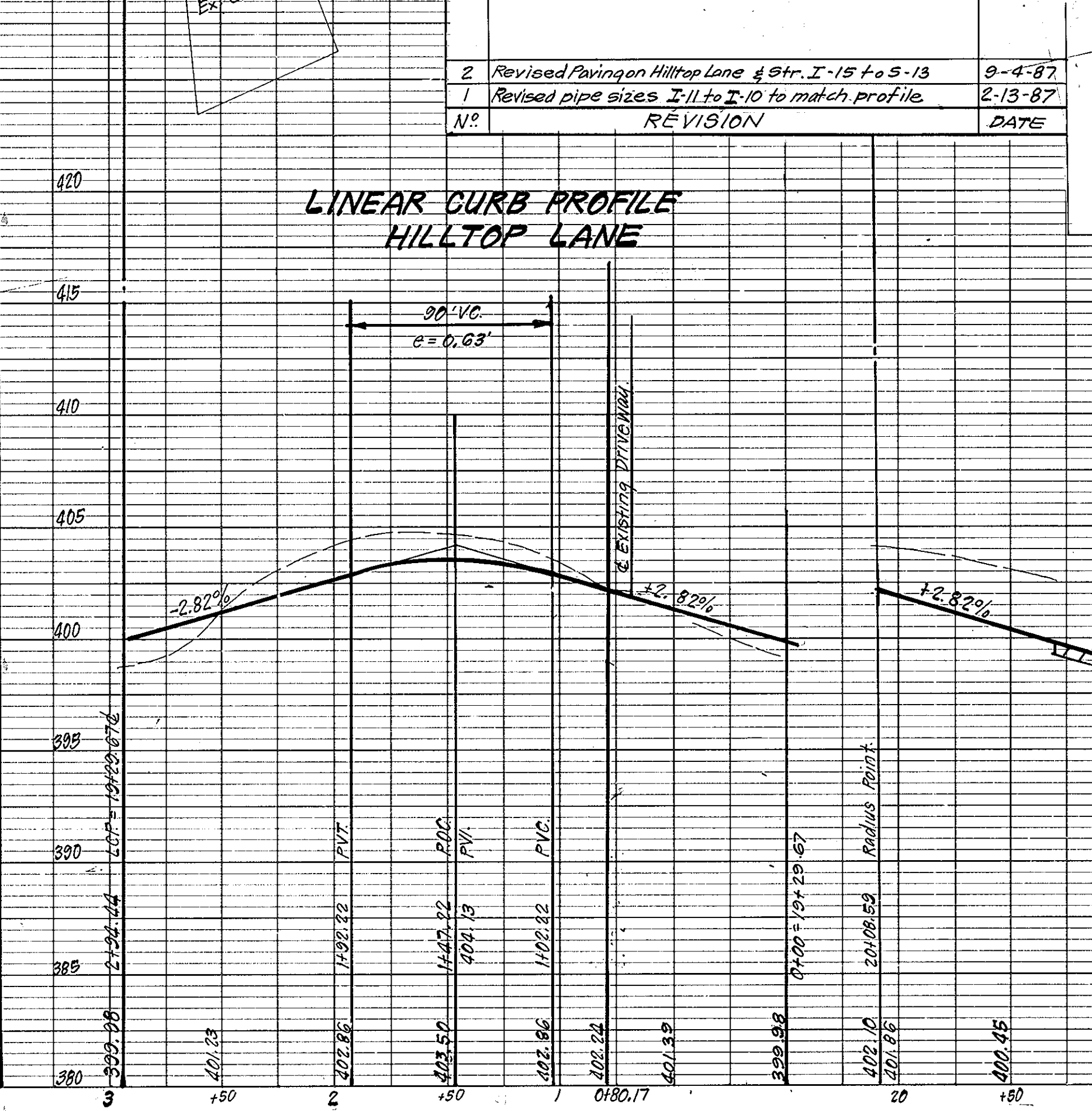
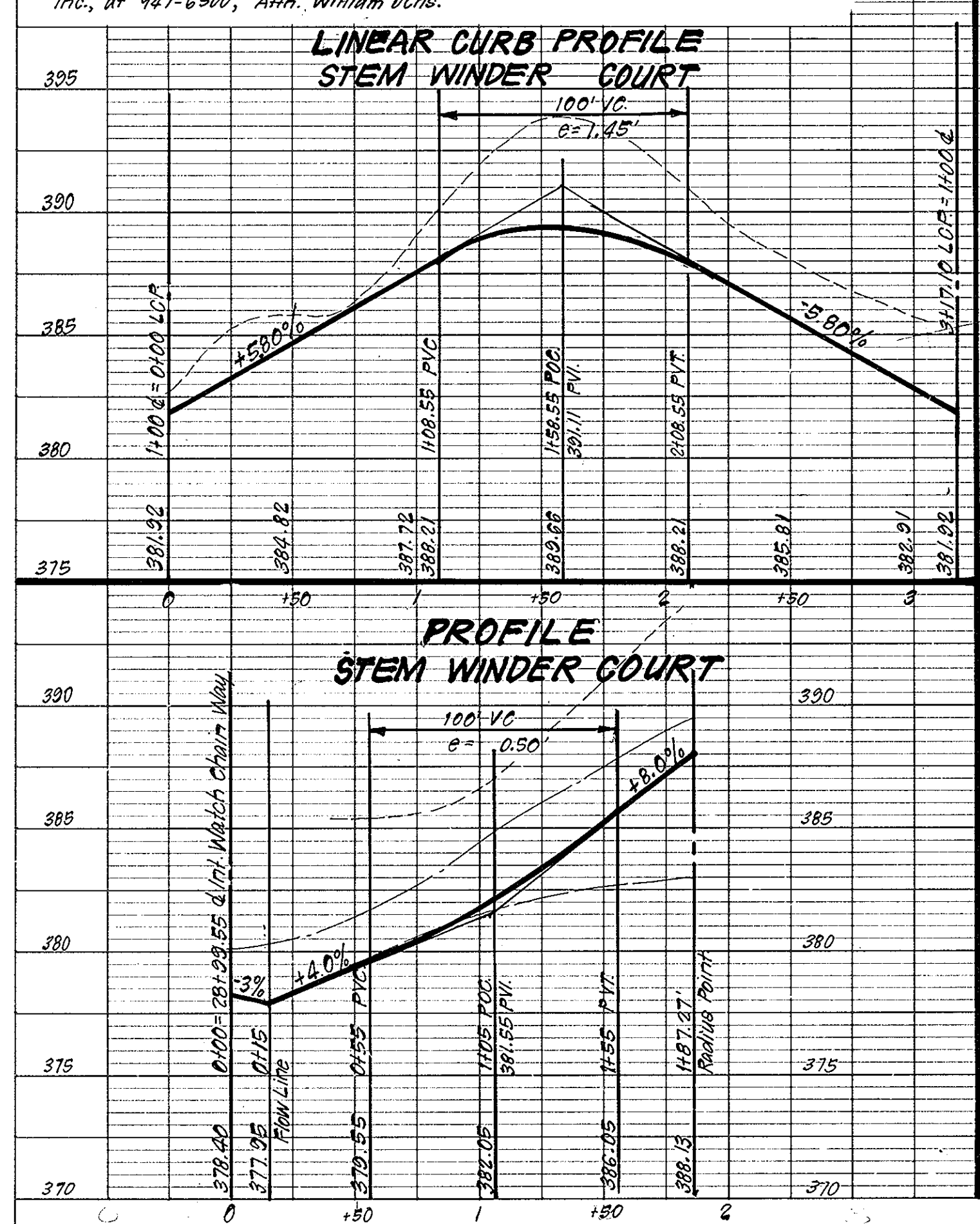
APPROVED: DEPARTMENT OF PUBLIC WORKS  
 Chief, Bureau of Engineering  
 APPROVED: HOWARD COUNTY OFFICE OF PLANNING & ZONING  
 Chief, Division of Land Development & Zoning Administration  
 Date: 11-4-86

**CLARK FINEFROCK & SACKETT**  
 ENGINEERS PLANNERS SURVEYORS  
 11315 LOCKWOOD DRIVE SILVER SPRING, MARYLAND 20904 (301)593-3400

DESIGNED: GLB  
 DRAWN: KIW  
 CHECKED: GLB  
 DATE: 6-6-86

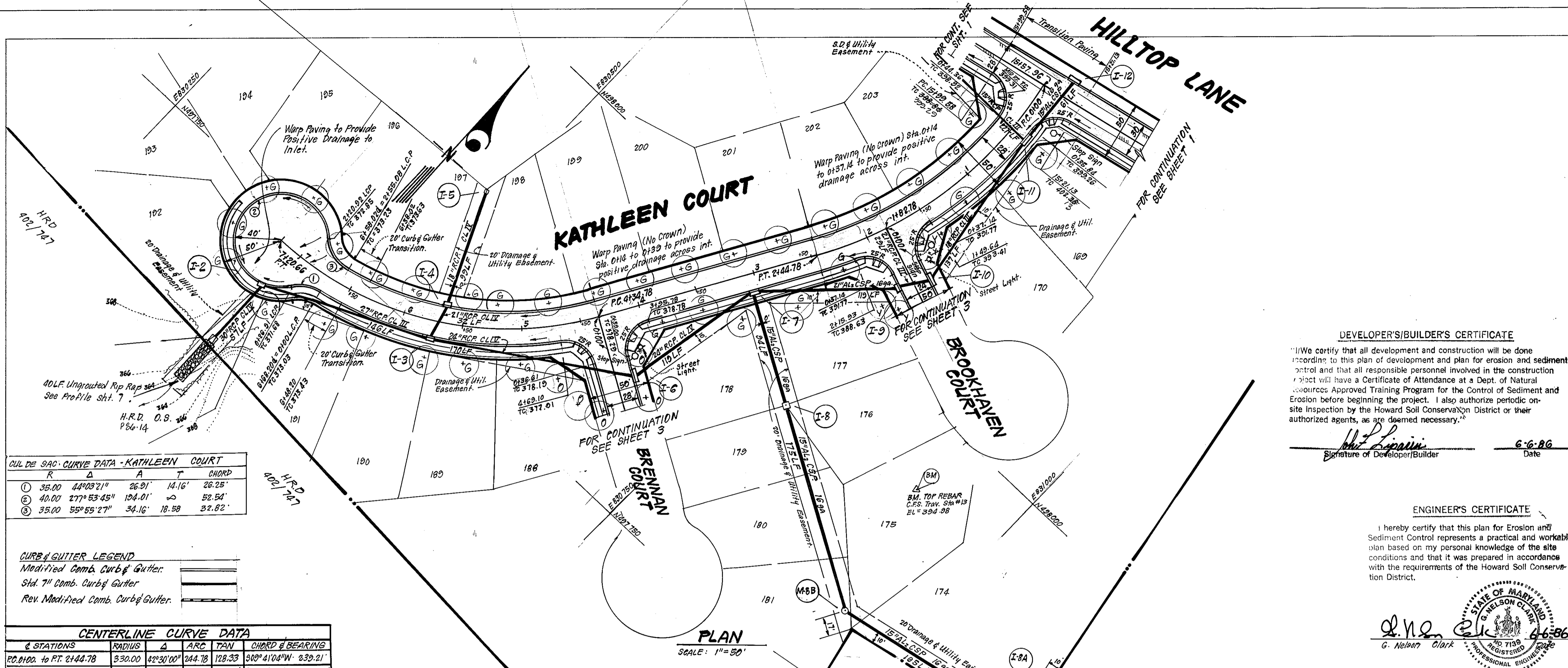
**ROAD CONSTRUCTION PLANS**  
**STEM WINDER CT. & HILLTOP LANE**  
**CEDAR ACRES**  
 SECTION III  
 5TH ELECTION DISTRICT  
 HOWARD COUNTY, MARYLAND  
 FOR: KINGS MEADE LIMITED PARTNERSHIP  
 2050 Red Branch Rd. #20  
 Columbia Md. 21045

SCALE: As Shown  
 DRAWING: 1 OF 11  
 JOB NO.: 85-065  
 FILE NO.: 85-065-D



# 86

No	REVISION	DATE
1	Revised pipe sizes I-11 to I-10 & I-10 to I-9	2-13-87



**CUL DE SAC CURVE DATA - KATHLEEN COURT**

R	Δ	A	T	CHORD
35.00	44°03'21"	26.91'	14.16'	26.25'
40.00	27°53'45"	194.01'	5	52.54'
35.00	55°55'27"	34.16'	18.58'	37.82'

**CURB & GUTTER LEGEND**  
 Modified Comb. Curb & Gutter  
 Std. 7" Comb. Curb & Gutter  
 Rev. Modified Comb. Curb & Gutter

**CENTERLINE CURVE DATA**

STATIONS	RADIUS	Δ	ARC	TAN	CHORD	BEARING
PC 0+100.00 to PT 2+144.78	330.00	92°30'00"	244.78	129.23	309°41'04"W	839.21'
PC 4+134.78 to PT 7+20.66	280.00	58°30'00"	285.88	152.81	56°01'04"W	273.63'

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

**DEVELOPER'S/BUILDER'S CERTIFICATE**  
 I 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]*  
 Signature of Developer/Builder  
 6-6-86  
 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]*  
 G. Nelson Clark  
 6-6-86  
 Date

Reviewed for...  
 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]*  
 Approved

**APPROVED: DEPARTMENT OF PUBLIC WORKS**  
*[Signature]*  
 Chief, Bureau of Engineering  
 11-10-86  
 Date

**APPROVED: HOWARD COUNTY OFFICE OF PLANNING & ZONING**  
*[Signature]*  
 Chief, Division of Land Development & Zoning Administration  
 11-4-86  
 Date

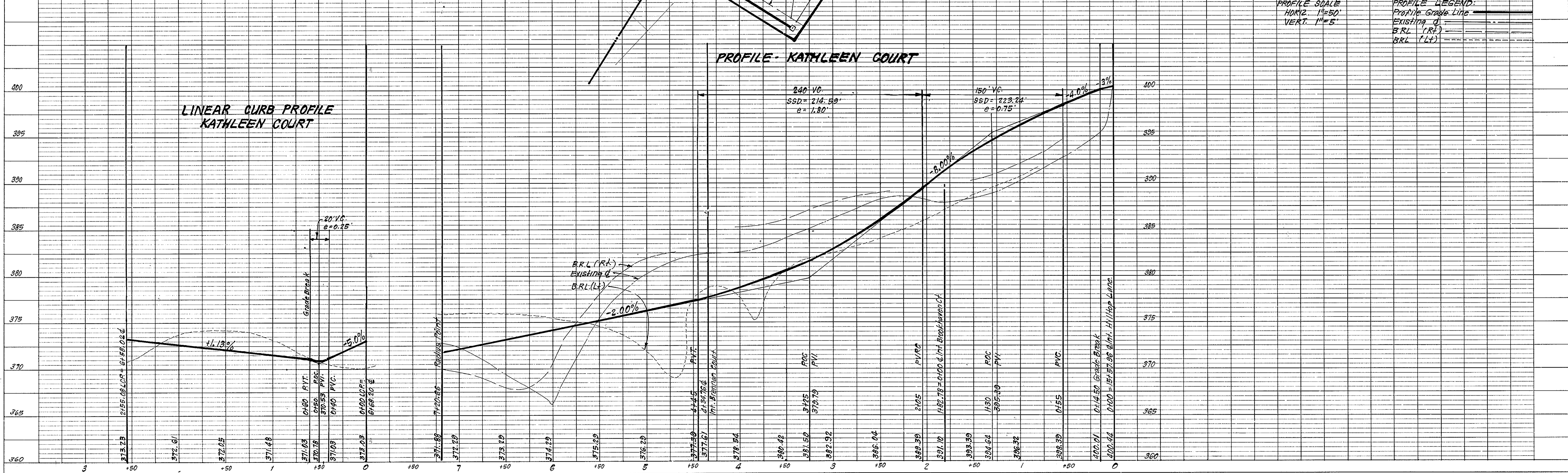
**CLARK · FINEFROCK & SACKETT**  
 ENGINEERS · PLANNERS · SURVEYORS  
 11315 LOCKWOOD DRIVE · SILVER SPRING, MARYLAND 20904 · (301)593-3400

**DESIGNED: ELB**  
**DRAWN: KIW**  
**CHECKED: GLB**  
**DATE: 6-6-86**

**ROAD CONSTRUCTION PLANS**  
**KATHLEEN COURT**  
**CEDAR ACRES**  
 SECTION IV  
 5TH ELECTION DISTRICT  
 HOWARD COUNTY, MARYLAND

**SCALE: As Shown**  
**DRAWING: 2 OF 11**  
**JOB NO.: 85-065**  
**FILE NO.: 85-065-D**

FOR: KING'S MEADE LIMITED PARTNERSHIP  
 3030 Red Branch Rd. # 210  
 Columbia, Md. 21045



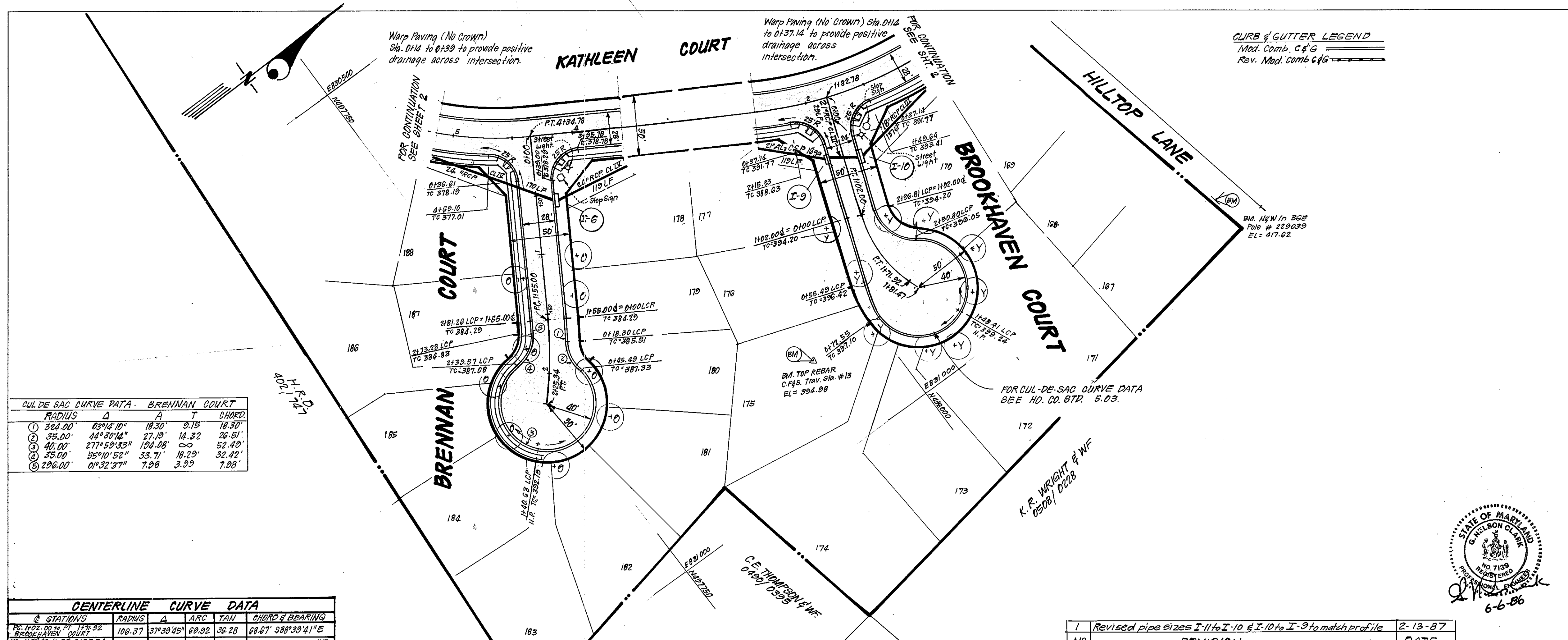
**LINEAR CURB PROFILE**  
**KATHLEEN COURT**

**PROFILE - KATHLEEN COURT**

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

**PROFILE LEGEND:**  
 Profile Grade Line  
 Existing G.  
 B.R.L. (RT)  
 B.R.L. (LT)

# 86



CUL-DE-SAC CURVE DATA - BRENNAN COURT

STATION	RADIUS	Δ	T	CHORD
1	324.00'	63°12'10"	18.30'	9.15'
2	35.00'	44°30'14"	27.19'	14.32'
3	40.00'	27°59'33"	124.08'	∞
4	35.00'	55°10'52"	33.71'	18.29'
5	296.00'	01°32'37"	7.98'	3.99'

CENTERLINE CURVE DATA

STATION	RADIUS	Δ	ARC	TAN	CHORD & BEARING
1	106.87'	37°30'45"	69.92'	36.28'	68.67' S88°30'41"E
2	310.00'	13°00'00"	70.34'	35.32'	70.13' S52°33'56"E

APPROVED: DEPARTMENT OF PUBLIC WORKS  
 Chief, Bureau of Engineering  
 APPROVED: HOWARD COUNTY OFFICE OF PLANNING & ZONING  
 Chief, Division of Land Development & Zoning Administration

**CLARK · FINEFROCK & SACKETT**  
 ENGINEERS · PLANNERS · SURVEYORS  
 11315 LOCKWOOD DRIVE • SILVER SPRING, MARYLAND 20904 • (301)593-3400

DESIGNED: **GLB**  
 DRAWN: **K/W**  
 CHECKED: **GLB**  
 DATE: **6-6-86**

**ROAD CONSTRUCTION PLANS**  
**BROOKHAVEN COURT AND BRENNAN COURT**

**SCALE: As Shown**

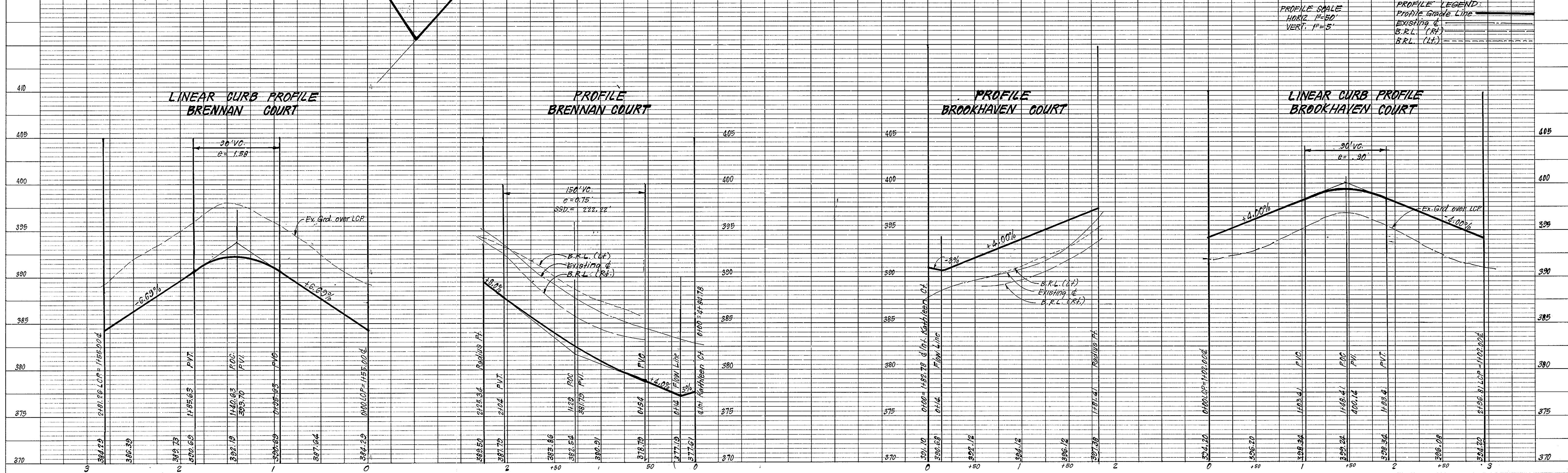
**CEDAR ACRES**  
 SECTION II  
 5TH ELECTION DISTRICT  
 HOWARD COUNTY, MARYLAND

FOR KINGS MEADE LIMITED PARTNERSHIP  
 3030 Red Branch Road # 210  
 Columbia, Md. 21045

FILE NO. **85-065-D**



NO.	REVISION	DATE
1	Revised pipe sizes I-11 to I-10 & I-10 to I-9 to match profile	2-13-87

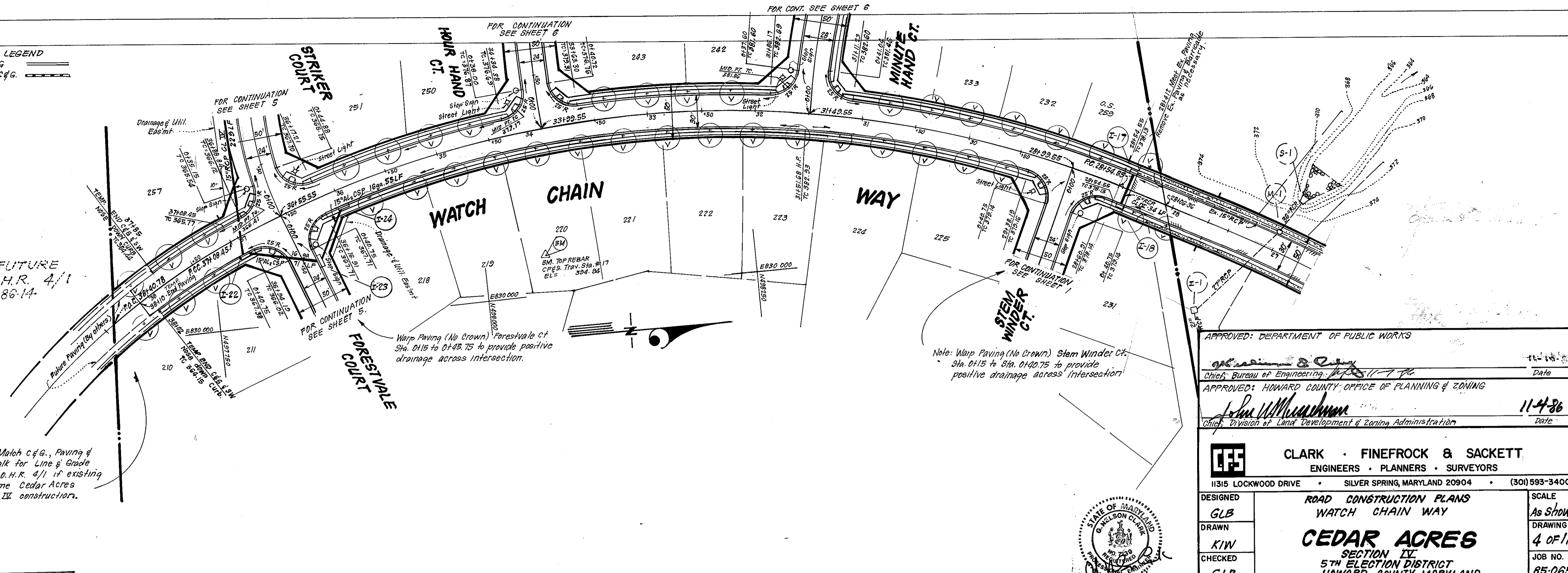


#86

CURB & GUTTER LEGEND  
 Mod. Comb. C&G  
 Rev. Mod. Comb. C&G

FUTURE  
 V.O.H.R. 4/1  
 P. 86-14

Note: Match c&g., Paving &  
 Sidewalk for Line & grade  
 for V.O.H.R. 4/1 if existing  
 at time Cedar Acres  
 Sect. IV construction.



APPROVED: DEPARTMENT OF PUBLIC WORKS  
 Chief, Bureau of Engineering: [Signature] Date: 11-4-86  
 APPROVED: HOWARD COUNTY OFFICE OF PLANNING & ZONING  
 Chief, Division of Land Development & Zoning Administration: [Signature] Date: 11-4-86

**CLARK · FINEFROCK & SACKETT**  
 ENGINEERS · PLANNERS · SURVEYORS  
 1315 LOCKWOOD DRIVE · SILVER SPRING, MARYLAND 20904 · (301) 593-3400

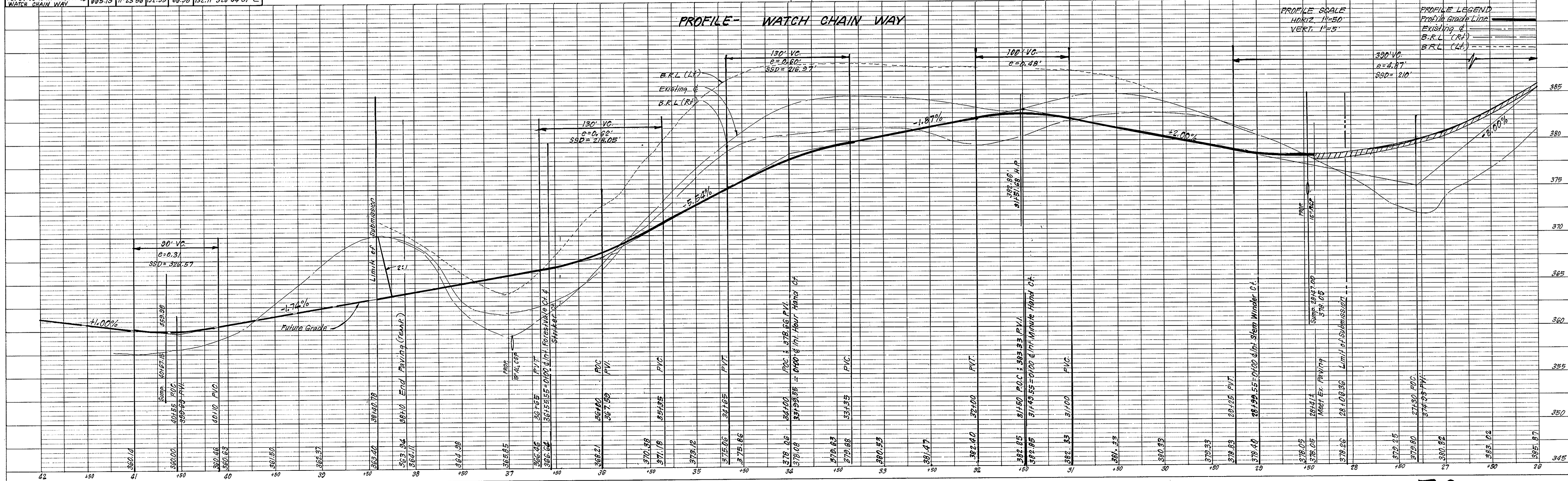
DESIGNED GLB	<b>ROAD CONSTRUCTION PLANS</b> WATCH CHAIN WAY <b>CEDAR ACRES</b> SECTION IV 5TH ELECTION DISTRICT HOWARD COUNTY, MARYLAND FOR: KINGS MEADE LIMITED PARTNERSHIP 3030 Red Branch Road #210 Columbia, Md. 21045	SCALE As Shown
DRAWN KIW		DRAWING 4 OF 11
CHECKED GLB		JOB NO. 85-065
DATE 6-6-86		FILE NO. 85-065-D

@ CURVE DATA				
STATIONS	RADIUS	Δ	ARC TAN.	CHORD & BEARING
PC 28154.55 POC 3708.45 WATCH CHAIN WAY	950.00	51°20'00"	853.90	458.23 825.45 S02°42'27"W
PC 31108.45 POC 38740.78 WATCH CHAIN WAY	605.13	11°23'56"	132.33	66.38 132.11 S20°44'31"E

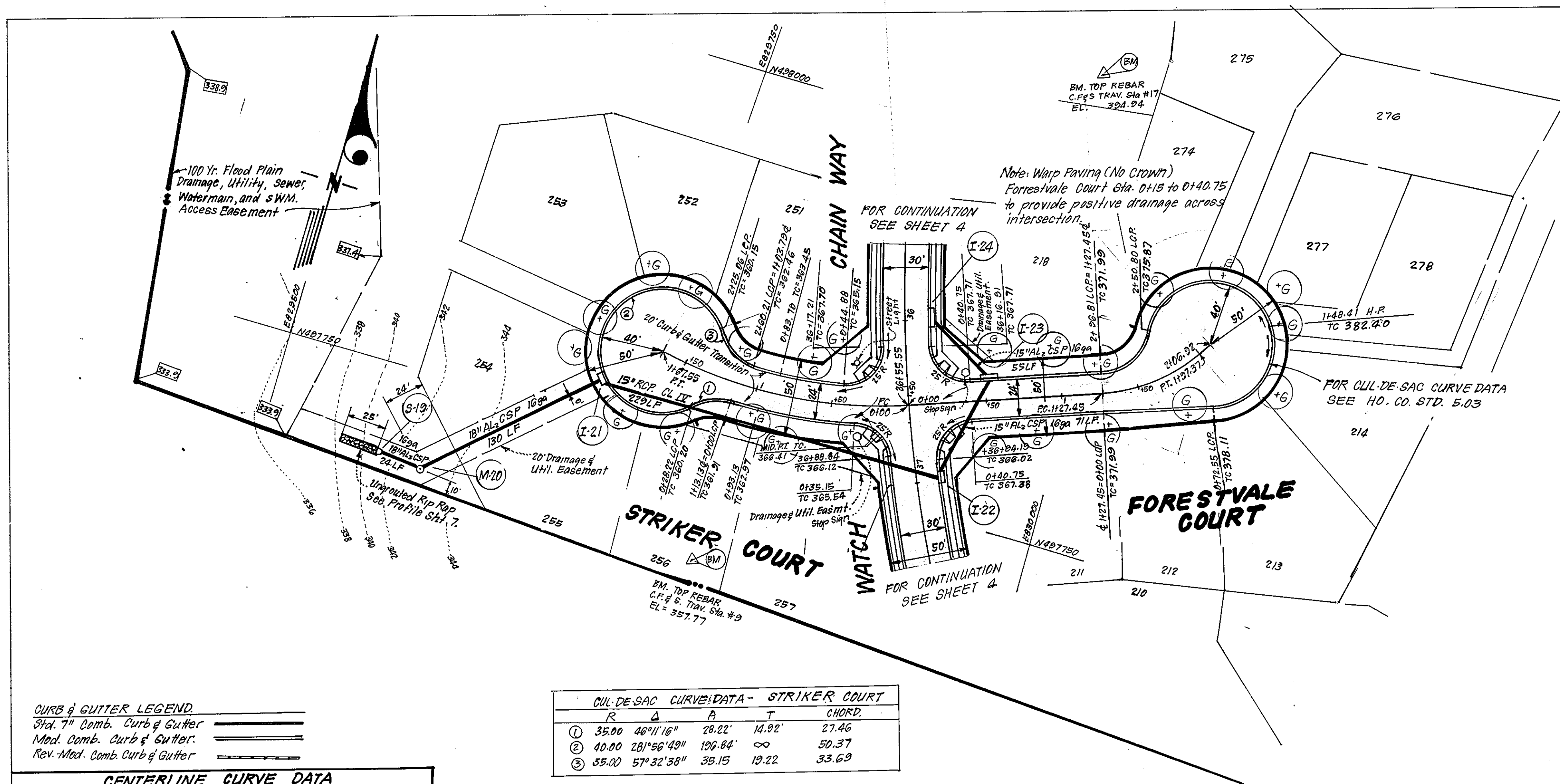
NO	REVISION	DATE
1	Revised pipe type I-22 to I-21 to match profile	2-13-87



PROFILE - WATCH CHAIN WAY



# 86



**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."

*John D. Dupani*  
Signature of Developer/Builder

6-6-86  
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.

*G. Nelson Clark*  
G. Nelson Clark

6-6-86  
Date

Reviewed for *Howard* S.S.D.  
Name  
and meets Technical Requirements  
*Stephen L. Fisher* 11-4-86  
Signature Date  
U.S. Soil Conservation Service

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

*Stephen L. Fisher* 11/4/86  
Approved Date

APPROVED: DEPARTMENT OF PUBLIC WORKS

*John W. Musickman*  
Chief, Bureau of Engineering 11-4-86  
Date

APPROVED: HOWARD COUNTY OFFICE OF PLANNING & ZONING

*John W. Musickman* 11-4-86  
Chief, Division of Land Development & Zoning Administration Date

**CLARK · FINEFROCK & SACKETT**  
ENGINEERS · PLANNERS · SURVEYORS

11315 LOCKWOOD DRIVE · SILVER SPRING, MARYLAND 20904 · (301) 593-3400

DESIGNED	ROAD CONSTRUCTION PLANS STRIKER COURT & FORESTVALE COURT	SCALE	As Shown
DRAWN	KIW	DRAWING	5 OF 11
CHECKED	GB	JOB NO.	85-065
DATE	6-6-86	FILE NO.	85-065-D

FOR: KINGS MEADE LIMITED PARTNERSHIP  
3030 Red Branch Road #210  
Columbia, Md. 21045

**CURB & GUTTER LEGEND**

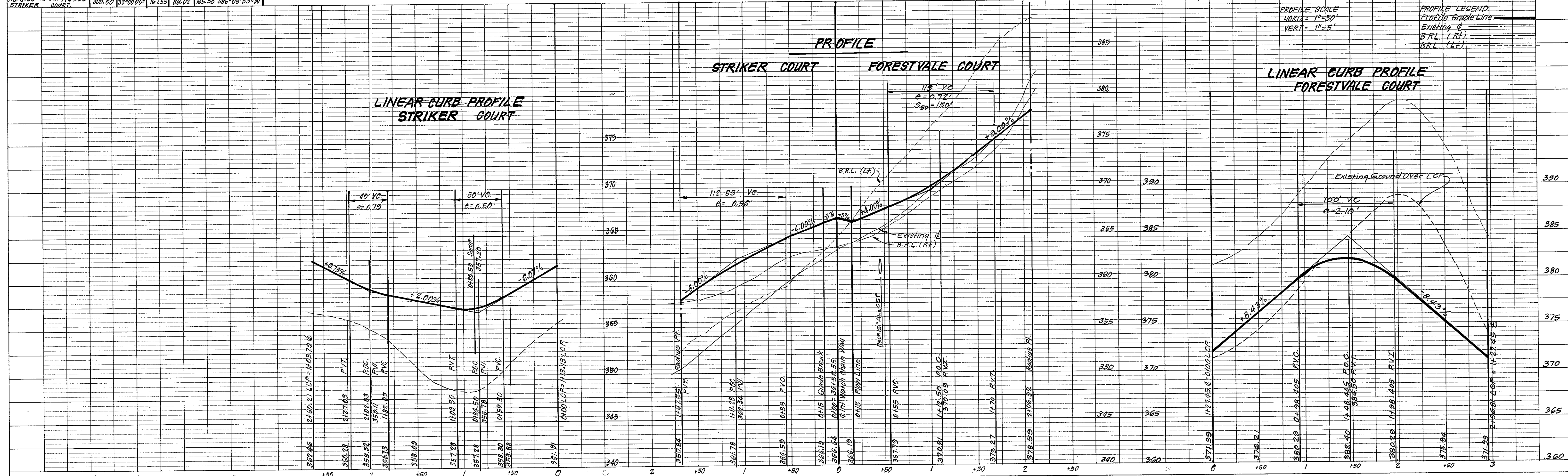
Shd. 7" Comb. Curb & Gutter  
Mod. Comb. Curb & Gutter  
Rev. Mod. Comb. Curb & Gutter

**CENTERLINE CURVE DATA**

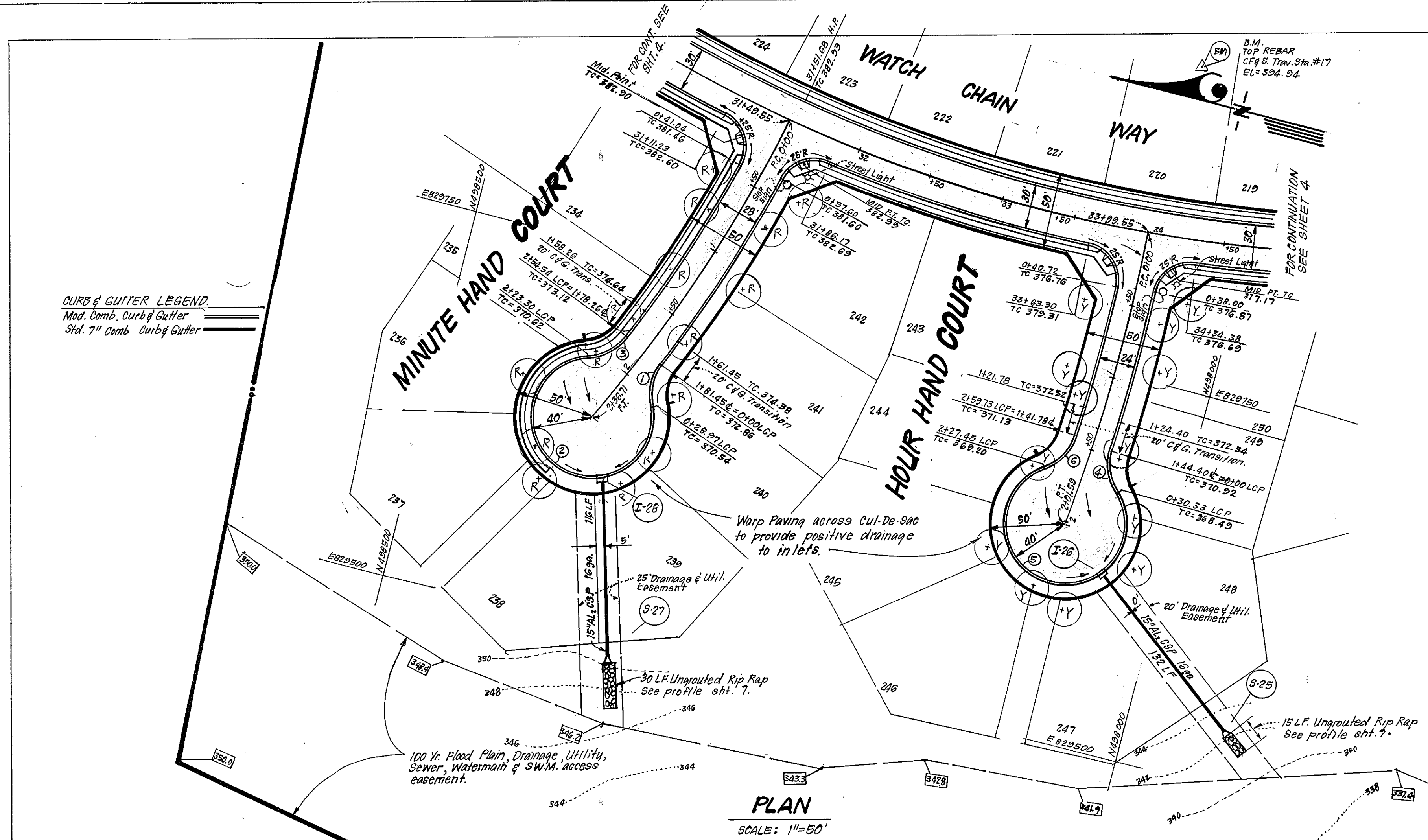
STATIONS	RADIUS	Δ	ARC	TAN	CHORD & BEARING
PC 127.45 to PT 197.37 FORESTVALE COURT	100.37	37°39'45"	69.92	36.28	68.67 N51°10'00"E
PC 0+00 to PT 1+67.55 STRIKER COURT	300.00	32°00'00"	167.55	86.02	165.38 S86°08'53"W

**CUL-DE-SAC CURVE DATA - STRIKER COURT**

R	Δ	A	T	CHORD
① 35.00	46°11'16"	28.22	14.92	27.46
② 40.00	28°56'49"	196.84	∞	50.37
③ 55.00	57°32'38"	35.15	19.22	33.69



# 86



**CUL-DE-SAC CURVE DATA - MINUTE HAND CT.**

R	Δ	A	T	CHORD
35.00	47°25'10"	28.97	15.37	28.15'
40.00	278°21'40"	154.33	∞	52.25'
35.00	81°08'52"	31.24	16.75'	30.22'

**CUL-DE-SAC CURVE DATA - HOUR HAND CT.**

R	Δ	A	T	CHORD
35.00	49°39'08"	30.33'	16.19'	29.39'
40.00	282°21'18"	107.12	∞	50.15'
35.00	52°50'45"	32.28	17.38'	31.15'

**CENTERLINE CURVE DATA**

STATIONS	RADIUS	Δ	ARC	TAN	CHORD & BEARING
PC 0+00 TO PT 1+38.71	875.00	15°30'00"	236.71	119.08	233.20 N71°35'04"W
PT 1+38.71 TO PVI 2+00.00	875.00	15°30'00"	236.71	119.08	233.20 N71°35'04"W
PVI 2+00.00 TO PC 2+61.29	875.00	15°30'00"	236.71	119.08	233.20 N71°35'04"W

**CURB & GUTTER LEGEND**  
Mod. Comb. Curb & Gutter  
Std. 7" Comb. Curb & Gutter

**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."

*John J. Lupinski*  
Signature of Developer/Builder

6-6-86  
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.

*G. Nelson Clark*  
G. Nelson Clark  
Professional Engineer  
6-6-86

Reviewed for *Howard* S.C.D.  
Name  
and meets Technical Requirements  
*Stephen L. Aulen*  
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: DEPARTMENT OF PUBLIC WORKS**

*John W. Muehlen*  
Chief, Bureau of Engineering  
11-4-86  
Date

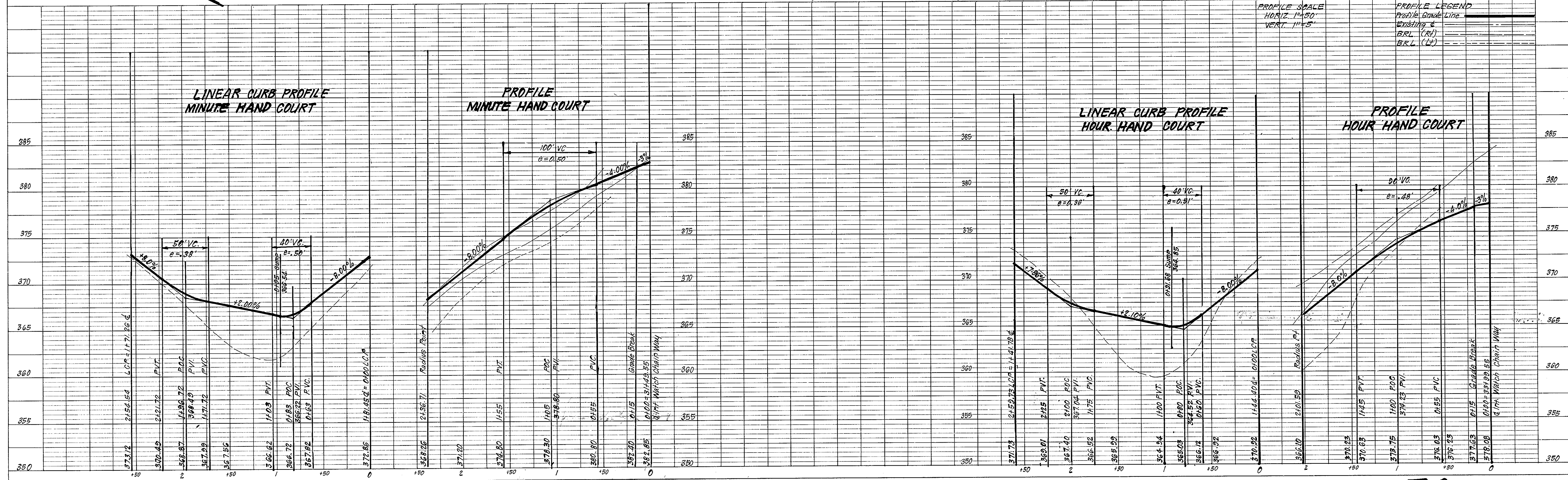
**APPROVED: HOWARD COUNTY OFFICE OF PLANNING & ZONING**

*John W. Muehlen*  
Chief, Division of Land Development & Zoning Administration  
11-4-86  
Date

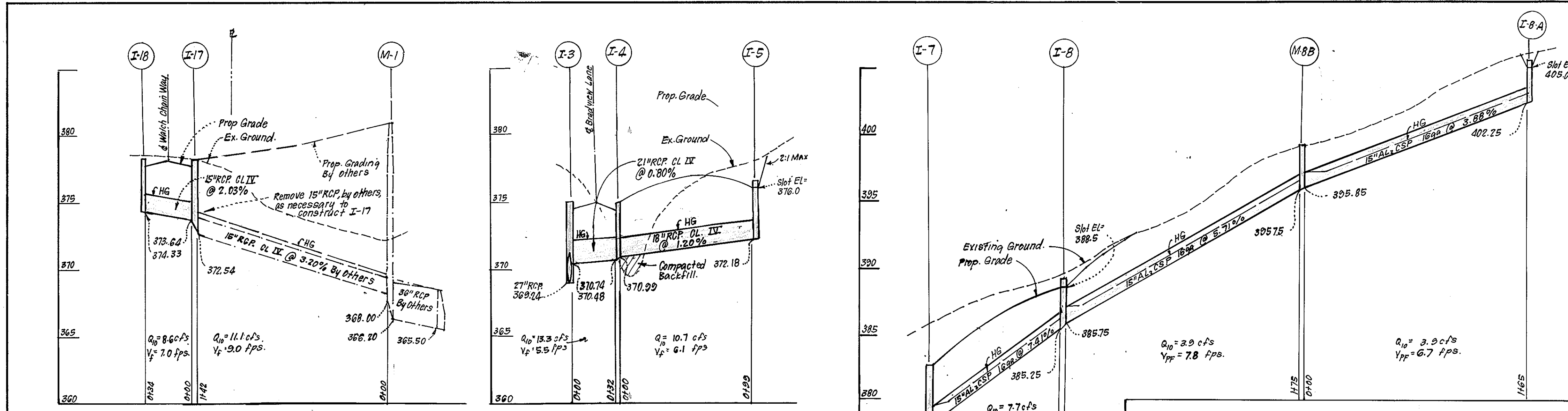
**CLARK · FINEFROCK & SACKETT**  
ENGINEERS · PLANNERS · SURVEYORS  
11315 LOCKWOOD DRIVE · SILVER SPRING, MARYLAND 20904 · (301) 593-3400

DESIGNED	ROAD CONSTRUCTION PLANS MINUTE HAND COURT & HOUR HAND COURT	SCALE	As shown
DRAWN	GLB	DRAWING	6 OF 11
CHECKED	KIW	JOB NO.	85-065
DATE	GLB	FILE NO.	85-065-D

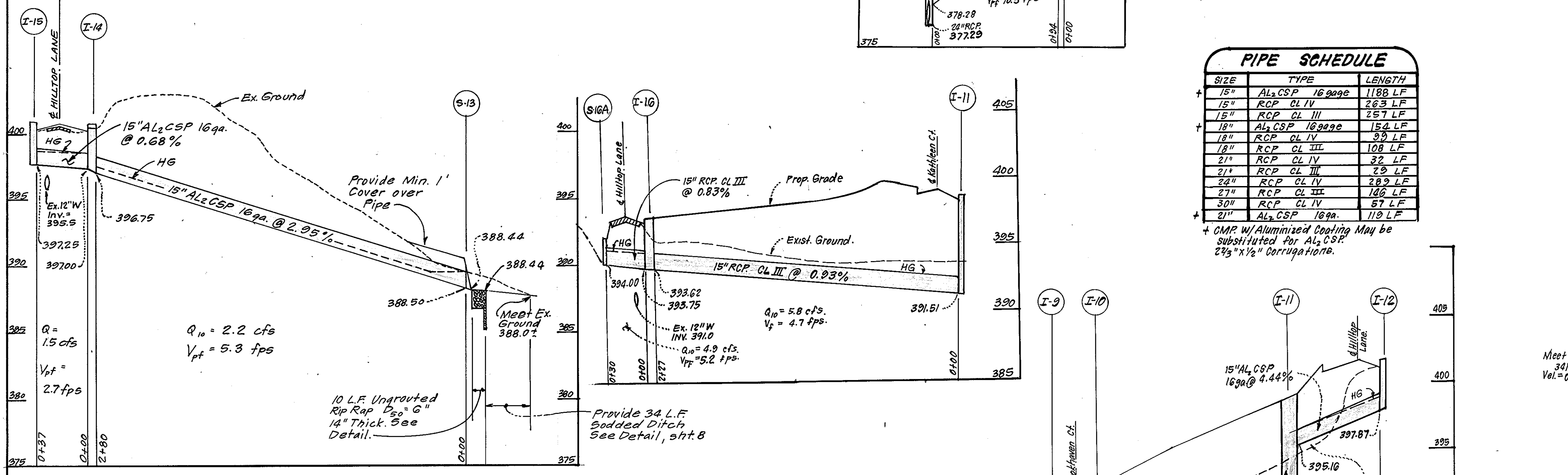
FOR: KINGS MEADE LIMITED PARTNERSHIP  
3030 Red Branch Rd. #210  
Columbia Md. 21045



# 86

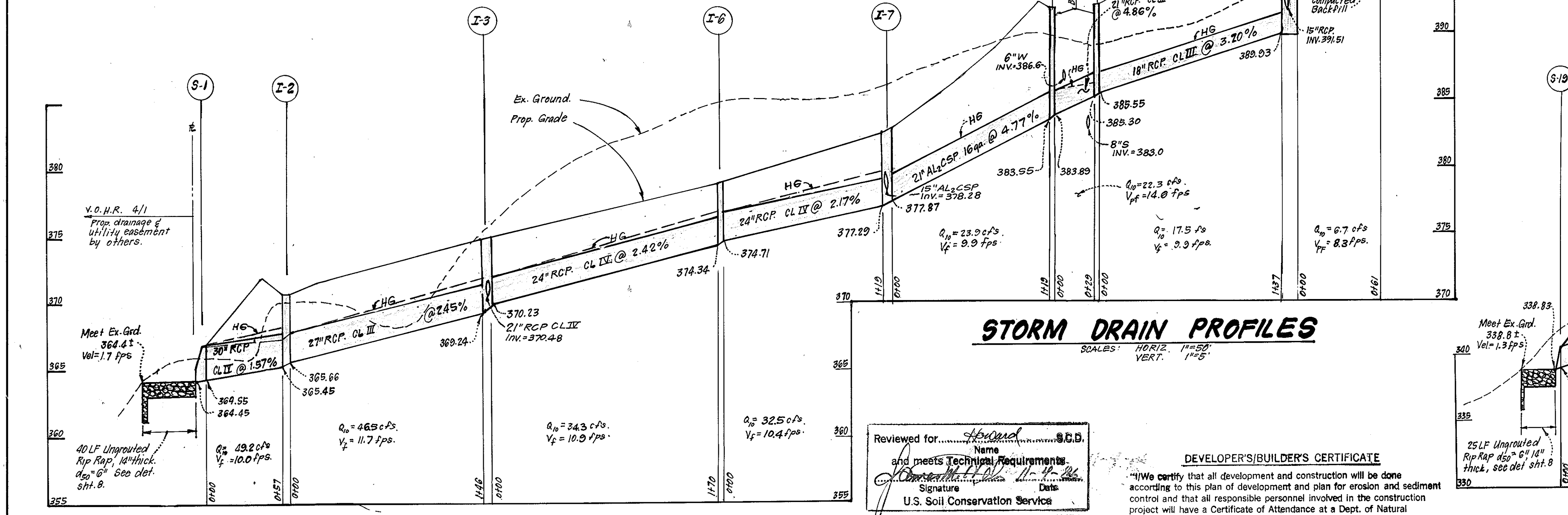
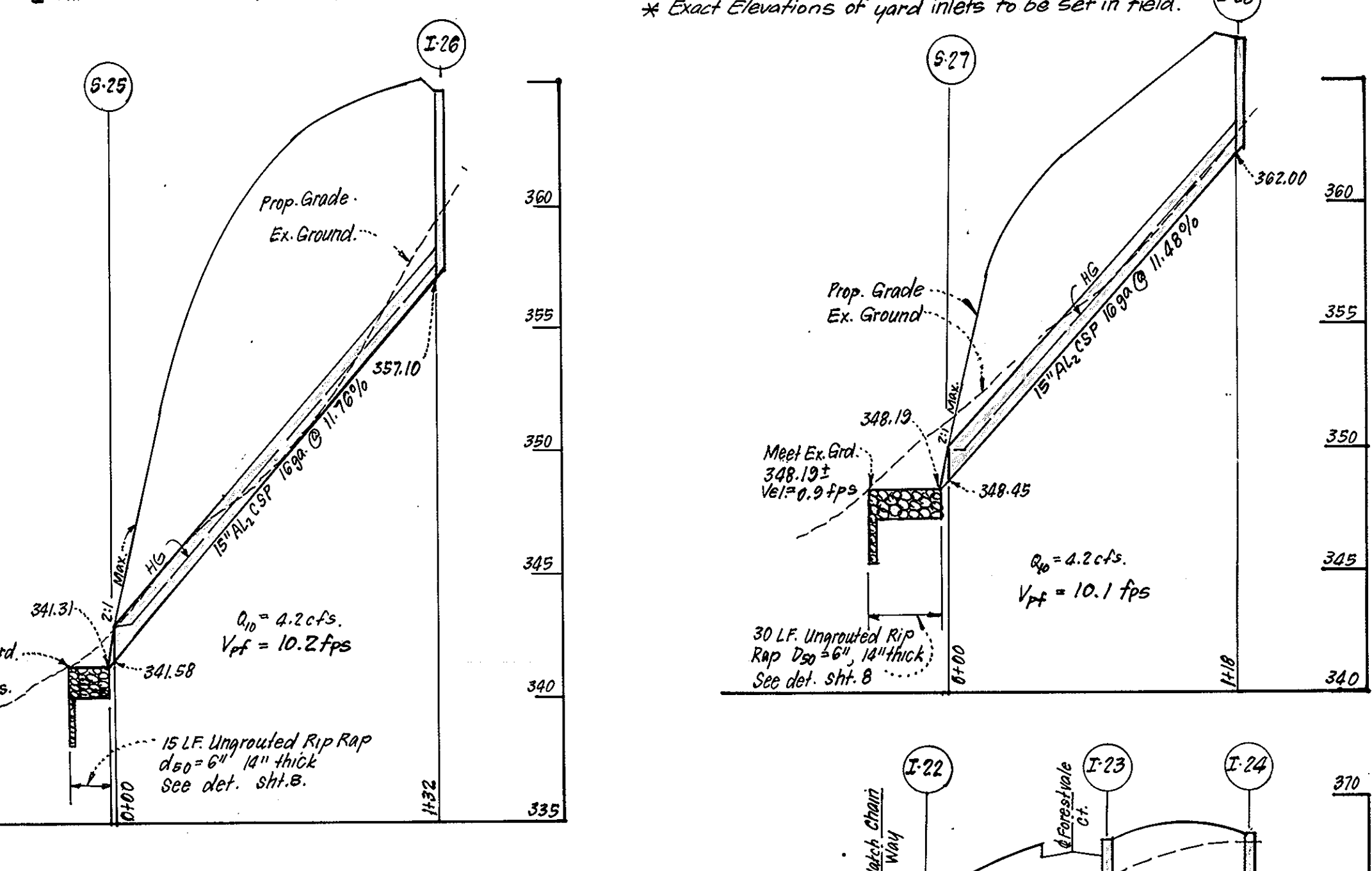


STRUCTURE SCHEDULE 4#									
No.	TYPE	INV. IN	INV. OUT	TOP ELEVATION		REMARKS	LOCATION	LOCATION	
				UPPER	LOWER			HO. CO. STD.	SD 5.52
1-1	Conc. End Section	364.55	364.25			HO. CO. STD. SD 5.52	See Plan		
1-2	A-5 Inlet	365.66	365.45		370.72	" " SD 4.01 W=4'0"	See Plan		
1-3	A-5 Inlet w/Deflectors	370.99	370.24	375.05	374.93	" " SD 4.01 W=4'0"	Inlet @ 5173 Kathleen Ct. 14.83' RA		
1-4	A-5 Inlet w/Deflectors	370.99	370.74	376.21	375.09	" " SD 4.01 W=2'6"	Inlet @ 5168 Kathleen Ct. 14.83' RA		
1-5	D Inlet - Slope in all Sides		372.10	376.52	376.05	" " SD 4.11 W=3'6"	See Plan		
1-6	A-10 Inlet	374.71	374.34	379.25	378.81	" " SD 4.02 W=2'6"	Inlet @ 0156 Brennan Ct. 14.83' RA		
1-7	A-5 Inlet w/Deflectors	377.18	377.29	382.91	382.58	" " SD 4.01 W=3'6"	Inlet @ 3105.86 Kathleen Ct. 14.83' RA		
1-8	D Inlet Slope in N, S & E	385.75	385.25	389.25	388.53	" " SD 4.11 W=3'6"	See Plan		
1-9	A-5 Inlet w/Deflectors	383.85	383.55	387.95	387.12	" " SD 4.01 W=2'6"	Inlet @ 0170.47 Brookhaven Ct. 12.83' RA		
1-10	A-10 Inlet w/Deflectors	385.85	385.30	389.78	389.25	" " SD 4.02 W=2'6"	Inlet @ 0154.12 Brookhaven Ct. 12.83' RA		
1-11	A-10 Inlet w/Deflectors	385.85	385.33	389.93	389.74	" " SD 4.02 W=2'6"	Inlet @ 0147.54 Kathleen Ct. 14.83' RA		
1-12	A-10 Inlet w/Deflectors	385.85	385.37	389.77	389.45	" " SD 4.02 W=2'6"	Inlet @ 15137 Hilltop La. 15.83' RA		
1-13	Metal End Section	388.50	388.44			" " SD 5.61 W=2'6"	See Plan		
1-14	A-5 Inlet	397.00	396.75	400.69	400.54	" " SD 4.01 W=3'6"	See Plan		
1-15	A-5 Inlet w/Deflectors		397.25	400.97	400.43	" " SD 4.01 W=2'6"	See Plan		
1-16	A-5 Inlet	393.75	393.62	397.50		" " SD 4.01 W=2'6"	Inlet @ 311766 Hilltop La. 14.83' RA		
1-17	A-5 Inlet	375.64	372.54	378.20		" " SD 4.01 W=2'6"	Inlet @ 28147.0 Watch Ch. Wy. 15.83' RA		
1-18	A-10 Inlet	375.64	374.33	378.20		" " SD 4.01 W=2'6"	Inlet @ 28147.0 Watch Ch. Wy. 15.83' RA		
1-19	Metal End Section	338.92	338.83			" " SD 5.61 W=2'6"	See Plan		
1-20	Shallow Brick Manhole	340.40	339.80	343.70		" " G-5.05	See Plan		
1-21	A-5 Inlet	352.00	351.45	357.20		" " SD 4.01 W=2'6"	See Plan		
1-22	A-5 Inlet w/Deflectors	358.00	358.46	365.99	365.85	" " SD 4.01 W=2'6"	Inlet @ 37105.62 Watch Ch. Wy. 15.83' RA		
1-23	A-10 Inlet w/Deflectors	361.99	361.39	368.12	367.68	" " SD 4.02 W=2'6"	Inlet @ 0152.25 Forestvale Ct. 12.83' RA		
1-24	A-10 Inlet w/Deflectors		362.67	368.57	368.17	" " SD 4.02 W=2'6"	Inlet @ 35199.41 Watch Ch. Wy. 15.83' RA		
1-25	Metal End Section	341.58	341.31			" " SD 5.61 W=2'6"	See Plan		
1-26	A-5 Inlet		357.10	362.85		" " SD 4.01 W=2'6"	See Plan		
1-27	Metal End Section	348.45	349.19			" " SD 5.61 W=2'6"	See Plan		
1-28	A-5 Inlet		362.00	366.50		" " SD 4.01 W=2'6"	See Plan		
1-29	D Inlet Slope in all Sides		402.25	405.52	381.405.02	" " SD 4.11 W=2'6"	See Plan		
1-30	Shallow Brick Manhole	335.85	335.75	339.00		" " G-5.05	See Plan		
1-31	Time C. Headwell	394.00		396.00		" " SD 5.21 W=2'6"	See Plan		



PIPE SCHEDULE		
SIZE	TYPE	LENGTH
15"	AL <sub>2</sub> CSP 16ga	1188 LF
15"	RCP CL IV	263 LF
15"	RCP CL III	757 LF
18"	AL <sub>2</sub> CSP 16ga	154 LF
18"	RCP CL IV	99 LF
21"	RCP CL III	108 LF
24"	RCP CL IV	32 LF
27"	RCP CL III	29 LF
30"	RCP CL IV	57 LF
21"	AL <sub>2</sub> CSP 16ga	119 LF

+ CMP w/Aluminized Coating May be substituted for AL<sub>2</sub>CSP 2 1/2" x 1/2" Corrugations.



### STORM DRAIN PROFILES

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

Reviewed for... *[Signature]* S.C.D.  
and meets Technical Requirements  
Signature: *[Signature]* Date: *[Date]*  
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."

Signature of Developer/Builder: *[Signature]* Date: *[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: *[Signature]* Date: *[Date]*

NO.	REVISIONS	DATE
3	Revised Profile S-13 to I-15	9-4-87
2	Revised profile, str. I-7 to I-10 and Structure Schedule	7-16-87
1	Revised partial flow velocities, H.G.'s (I-7 to S-1)	2-13-87
N/A		

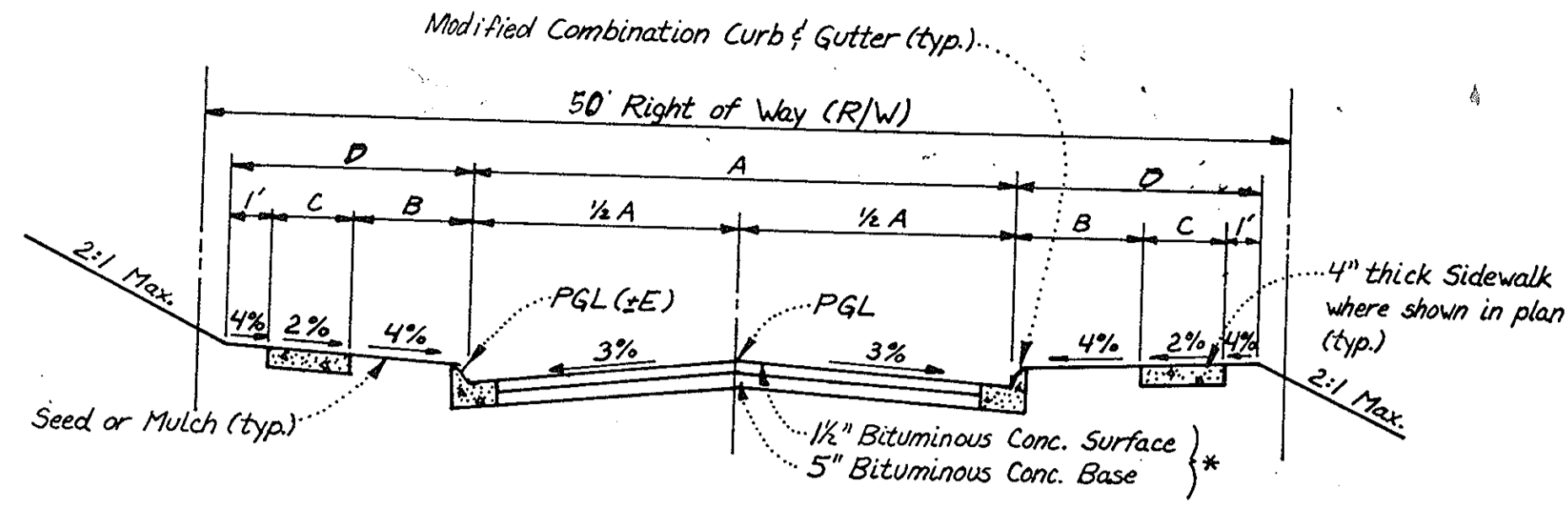
APPROVED: DEPARTMENT OF PUBLIC WORKS  
*[Signature]* Chief, Bureau of Engineering  
APPROVED: HOWARD COUNTY OFFICE OF PLANNING & ZONING  
*[Signature]* Chief, Division of Land Development & Zoning Administration

**CLARK • FINEPROCK & SACKETT**  
ENGINEERS • PLANNERS • SURVEYORS  
11315 LOCKWOOD DRIVE SILVER SPRING, MARYLAND 20904 (301) 593-3400

DESIGNED <b>GB</b>	<b>ROAD CONSTRUCTION PLAN STORM DRAIN PROFILES</b>	SCALE <b>As Shown</b>
DRAWN <b>KIW</b>		DRAWING <b>7 OF 11</b>
CHECKED <b>G.B.</b>		JOB NO. <b>85-065</b>
DATE		FILE NO. <b>85-065-D</b>

FOR: **KINGS MEADE LIMITED PARTNERSHIP**  
3030 Red Branch Rd. # 210  
Columbia, Md. 21045

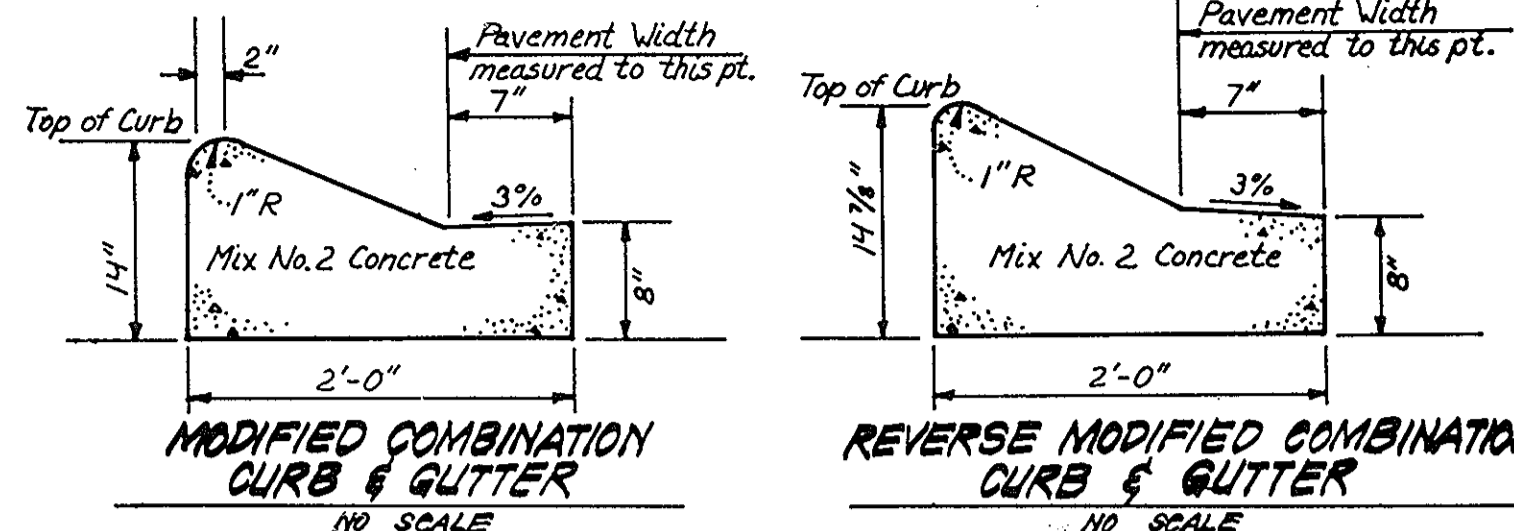
**F-86-213**



**TYPICAL PAVING SECTION - PUBLIC ROADS**

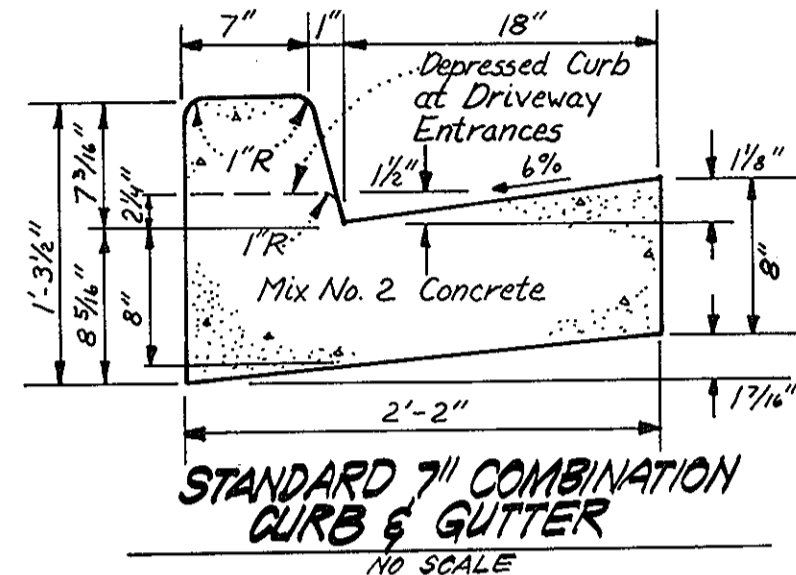
\*For Alternate Paving Section - See det. this sht.

STREET NAME & STATIONING	ROAD CLASSIFICATION	A	B	C	D	R/W	ZONING	DESIGN SPEED	E
KATHLEEN 0100 to 7120.66	CUL DE SAC	28'	4'	4'	9'	50'	RSC	30 mph	+ .10
BROOKHAVEN 0100 to 1481.47	"	28'	4'	4'	9'	50'	RSC	25 mph	+ .16
BRENNAN 0100 to 2125.34	"	28'	4'	4'	9'	50'	RSC	25 mph	+ .10
STRIKER 0100 to 1167.55	"	28'	4'	4'	9'	50'	RSC	25 mph	+ .16
FORESTVALE 0100 to 2106.92	"	28'	4'	4'	9'	50'	RSC	25 mph	+ .16
HOOR HAND 0100 to 2101.59	"	28'	4'	4'	9'	50'	RSC	25 mph	+ .16
MINUTE HAND 0100 to 2136.71	"	28'	4'	4'	9'	50'	RSC	25 mph	+ .10
SIEM WINDER 0100 to 1187.27	"	28'	4'	4'	9'	50'	RSC	25 mph	+ .16
WATCHCHAIN 28100.36 to 38140.78	LOCAL	30'	4'	4'	9'	50'	RSC	30 mph	+ .07

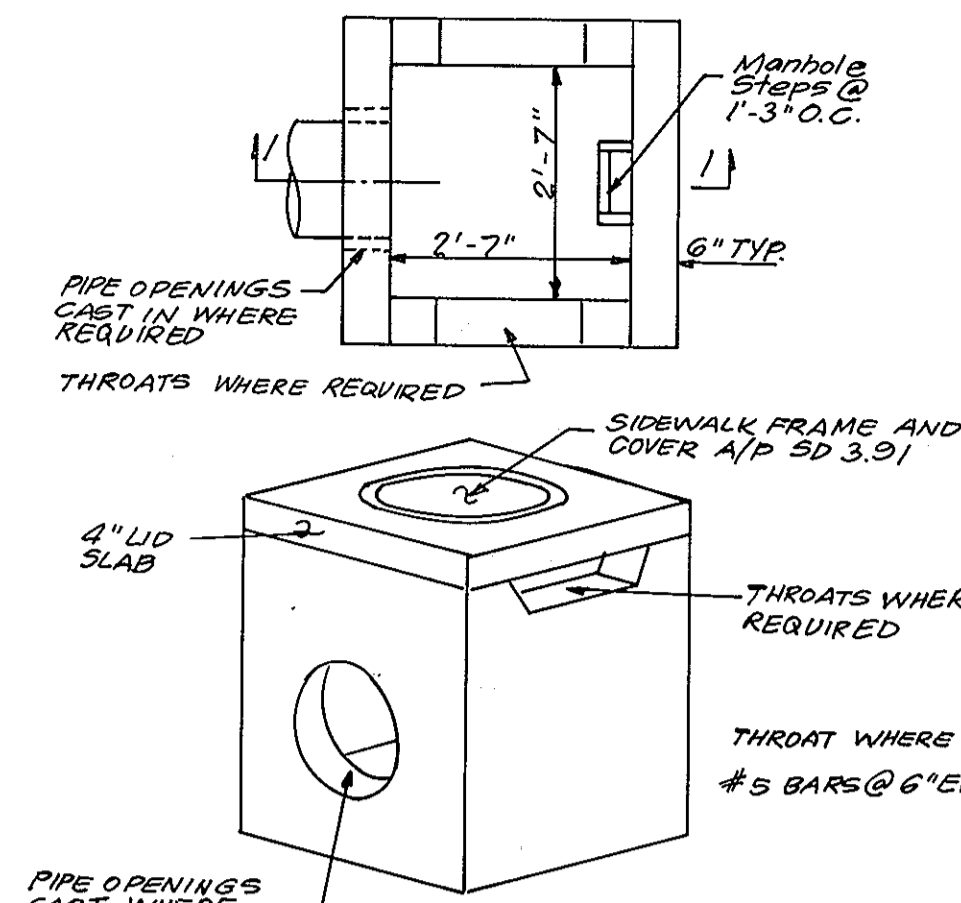


Bituminous Conc. Surface	1 1/2"
Bituminous Conc. Base	2 1/2"
Prime	
3" Crusher Run Base (Placed in 2 Courses) or 6" Dense Graded Stabilized Aggregate Base Course	8" or 6"

**ALTERNATE PAVING SECTION FOR PUBLIC ROADS**  
(SECTION P-2)

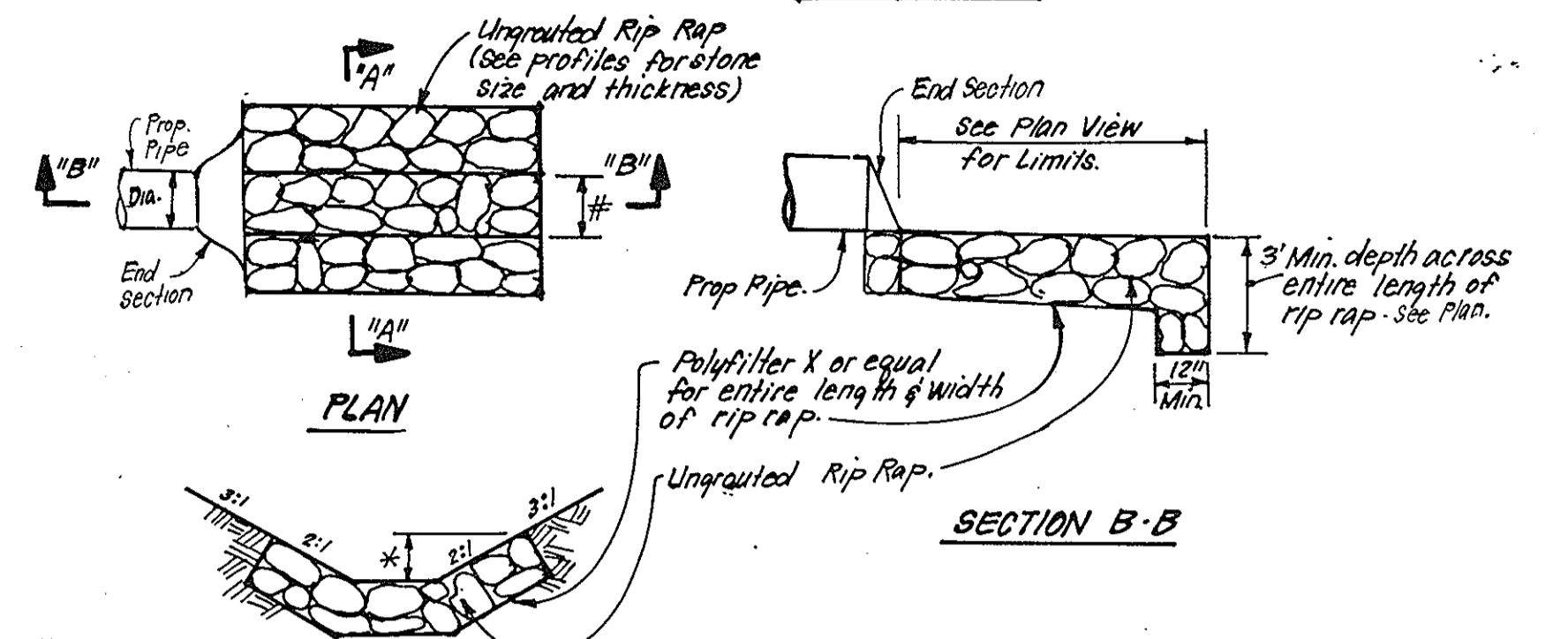


**PLAN - BELOW SLAB**  
TYPE "D" INLET  
REFERENCE SD 4.11

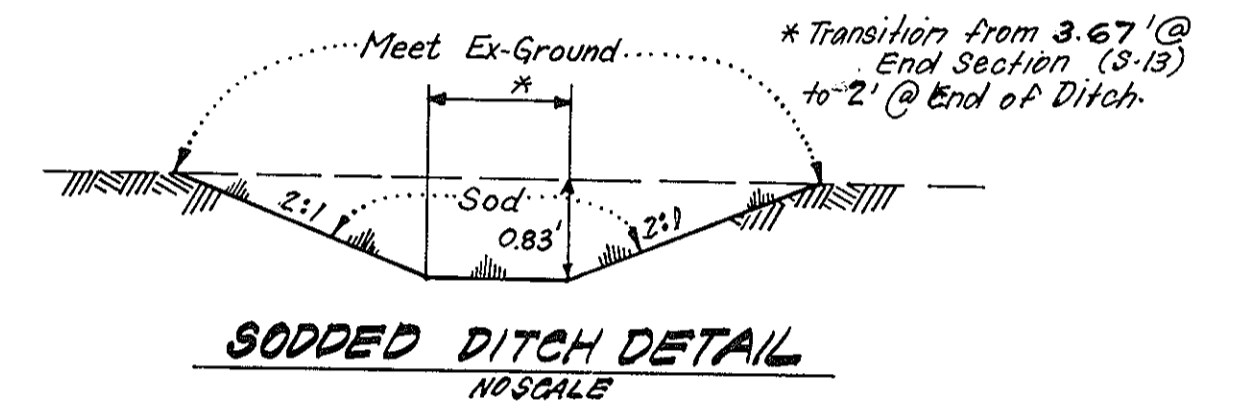


- NOTES**
- Concrete shall conform to the Maryland DOT SHA Standard Specs for const. and materials. 1982 mix. No. 6 except that type III cement & ASTM C 33 No. 8 course 999 shall be used.
  - Welded wire fabric shall conform to ASTM A 185. Lap splices shall be a min. of 12" transverse wire spaces. Wire ends shall be tack welded to produce a rigid unit.
  - Overall height of precast is adjustable to 6" increments. Final grade judgment shall be made by the contractor with brick and mortar.

**PRECAST STANDARD TYPE "D" INLET**



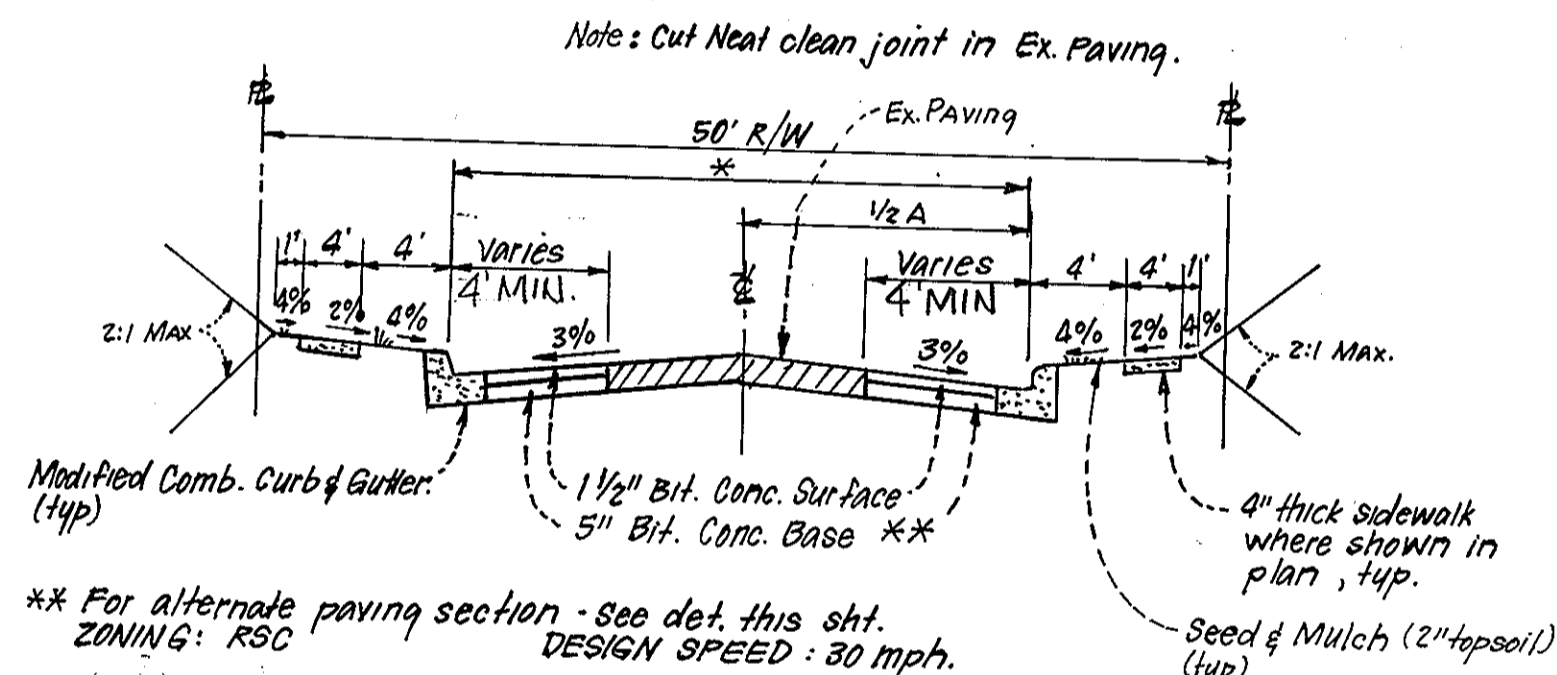
**UNGROUTED RIPRAP PAVING DETAILS**  
NO SCALE



**SODDED DITCH DETAIL**  
NO SCALE

**GENERAL SODDING NOTES:**

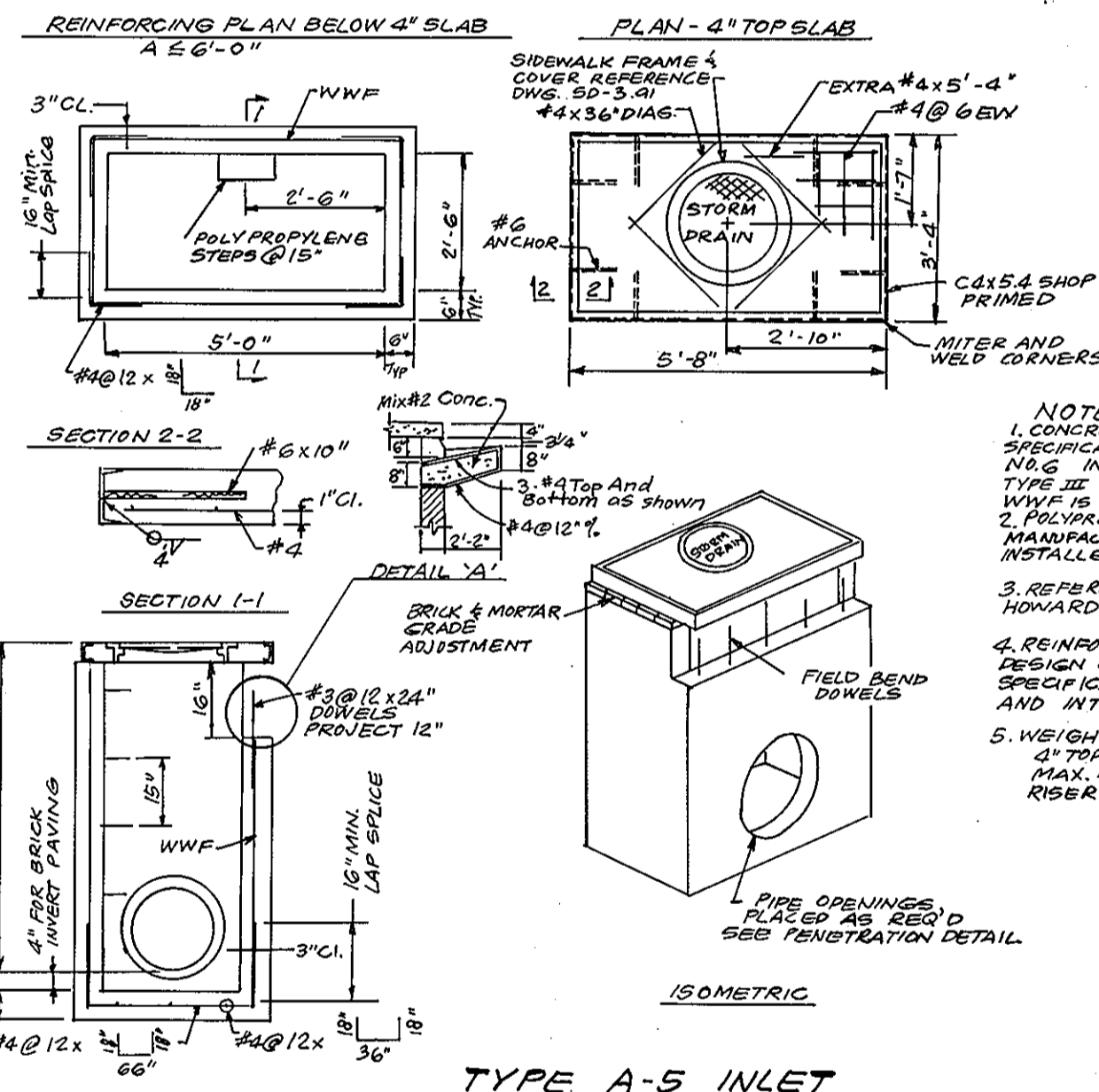
- Apply 10-10-10 Fertilizer @ 1000#/acre (25#/1000sf)
- Apply Ground Agricultural Limestone @ 2000#/acre (50#/1000sf)
- Incorporate both Lime and Fertilizer into soil by discing. Firm up after incorporation.
- Lay sod to a tight fit. Roll to insure contact with underlying soil. Water as necessary for 2 weeks, in summer, to ensure establishment.
- All sod to be used must be certified by the state of Maryland.
- Sod to be pegged and stapled.



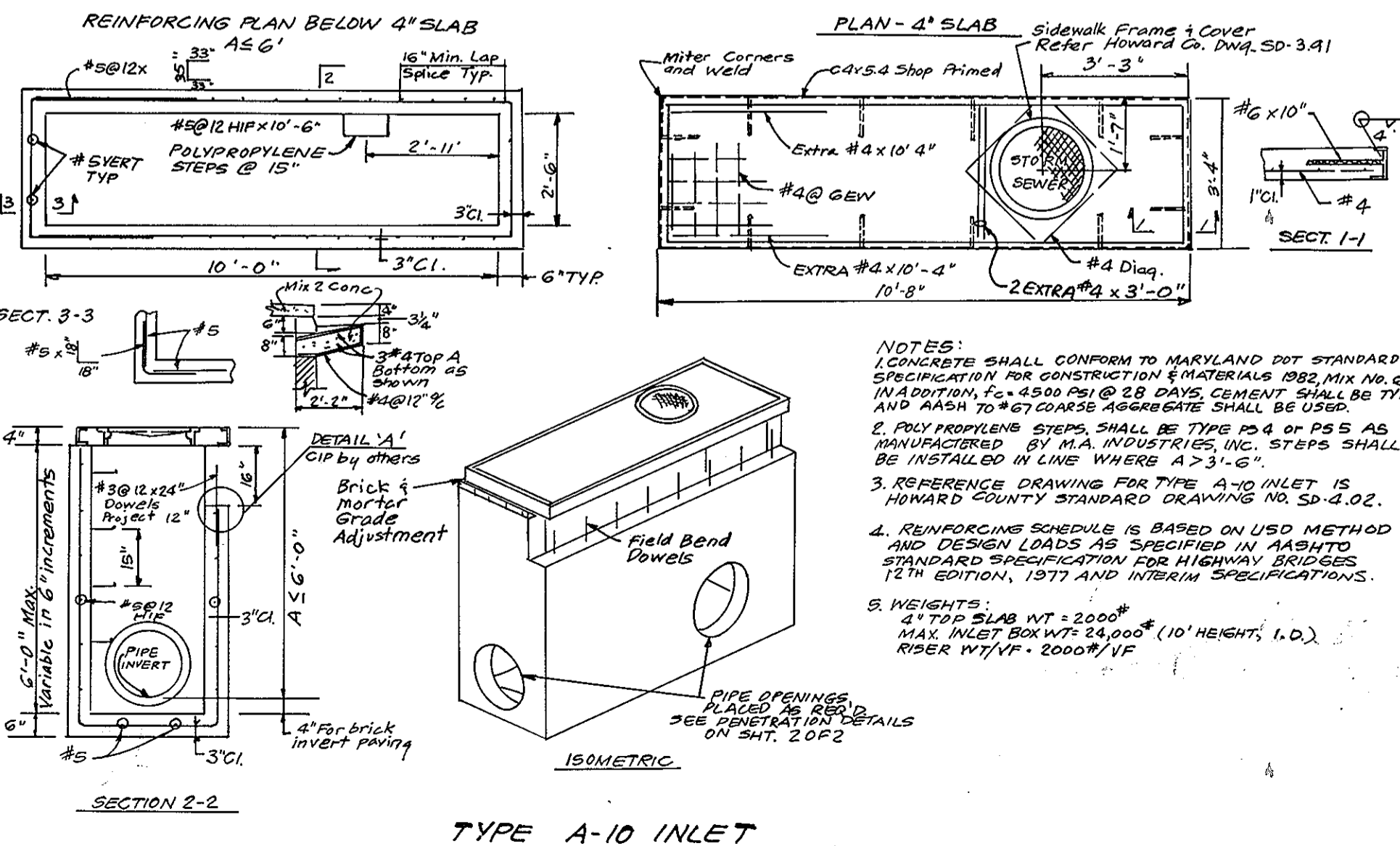
**TYPICAL SECTION - HILLTOP LANE**

STATION	TYPE OF TRAFFIC	* A	1/2 A
12+90 to 15+21.13	LOCAL	30'	
15+99.58 to 16+27	CUL-DE-SAC	28'	
11+37.04 to 12+90	LOCAL		15'
16+27 to 17+78.50	CUL-DE-SAC		14'

NOTE: ALL WIDENING SHALL BE CONSTRUCTED IN ACCORDANCE WITH DETAIL R 10.01



**TYPE A-5 INLET**



**TYPE A-10 INLET**

- NOTES:**
- CONCRETE SHALL CONFORM TO MARYLAND DOT STANDARD SPECIFICATION FOR CONSTRUCTION & MATERIALS 1982, MIX NO. 6. IN ADDITION, F<sub>c</sub> = 4500 PSI @ 28 DAYS. CEMENT SHALL BE TYPE III, AND SAND TO #67 COARSE AGGREGATE SHALL BE USED.
  - POLYPROPYLENE STEPS SHALL BE TYPE PS 4 OR PS 5 AS MANUFACTURED BY M.A. INDUSTRIES, INC. STEPS SHALL BE INSTALLED IN LINE WHERE A > 3'-6".
  - REFERENCE DRAWING FOR TYPE A-10 INLET IS HOWARD COUNTY STANDARD DRAWING NO. SD-4.02.
  - REINFORCING SCHEDULE IS BASED ON USD METHOD AND DESIGN LOADS AS SPECIFIED IN AASHTO STANDARD SPECIFICATION FOR HIGHWAY BRIDGES, 12TH EDITION, 1977 AND INTERIM SPECIFICATIONS.
  - WEIGHTS:  
4" TOP SLAB WT = 2000#  
MAX. INLET BOX WT = 2400# (10' HEIGHT, I.D.)  
RISER WT/VF = 2000#/VF

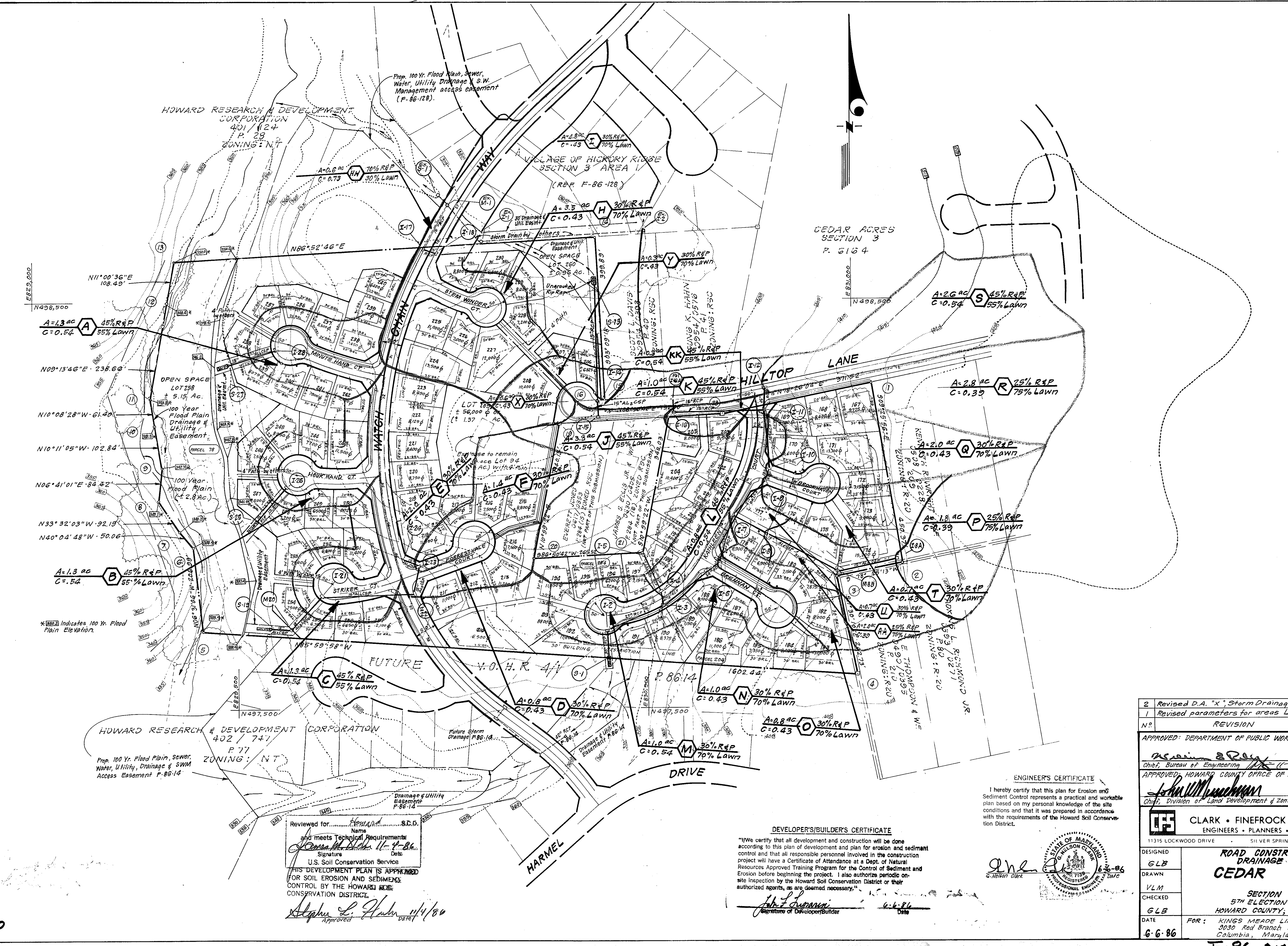
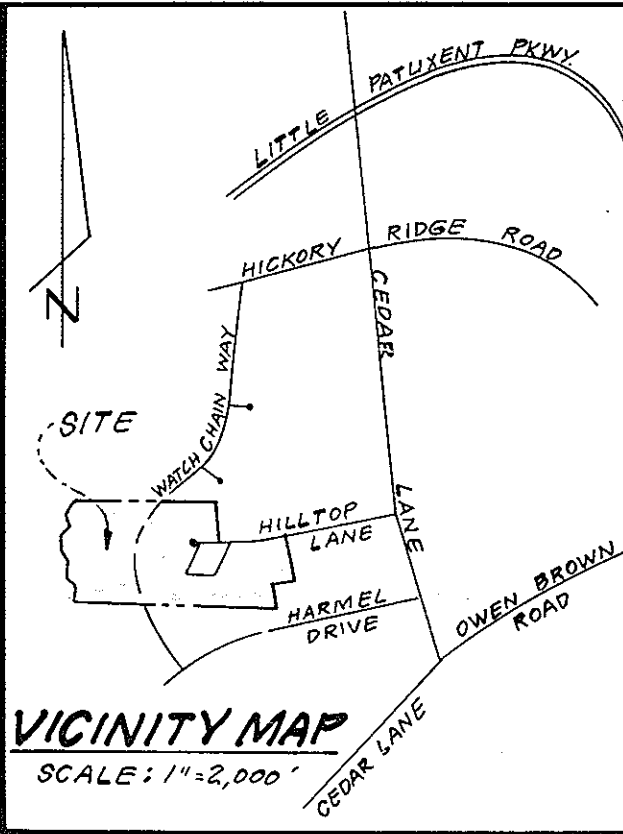
Reviewed for...  
Name  
and meets Technical Requirements  
Signature  
U.S. Soil Conservation Service  
THIS DEVELOPMENT PLAN IS APPROVED FOR SOIL EROSION AND SEDIMENT CONTROL BY THE HOWARD COUNTY CONSERVATION DISTRICT.  
Approved Date

**DEVELOPER'S/BUILDERS 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

**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 of Engineer Date

1	Added Precast Inlet Details	5-12-87
NO	REVISION	DATE
APPROVED: DEPARTMENT OF PUBLIC WORKS.		
Signature of Engineer		11-10-86
APPROVED: HOWARD COUNTY OFFICE OF PLANNING & ZONING		
Signature of Planner		11-4-86
Chief, Division of Land Development & Zoning Administration		
<b>CLARK FINEFROCK &amp; SACKETT</b> ENGINEERS PLANNERS SURVEYORS 11315 LOCKWOOD DRIVE SILVER SPRING, MARYLAND 20904 (301)593-3400		
DESIGNED	GLB	SCALE As SHOWN
DRAWN	KIW	DRAWING 8 OF 11
CHECKED	GLB	JOB NO. 85-065
DATE	2-6-86	FILE NO. 85-065-D





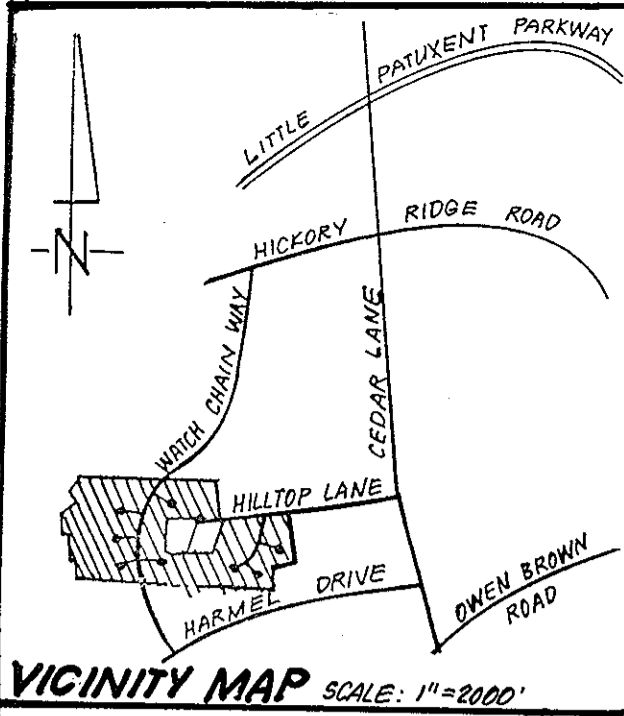
Reviewed for... *[Signature]* S.C.D.  
 and meets Technical Requirements  
*[Signature]* 11-4-86  
 Signature Date  
 U.S. Soil Conservation Service  
 THIS DEVELOPMENT PLAN IS APPROVED  
 FOR SOIL EROSION AND SEDIMENT  
 CONTROL BY THE HOWARD SOIL  
 CONSERVATION DISTRICT.  
*[Signature]* 11/4/86  
 Approval 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]* 11-4-86  
 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]* 11-4-86  
 Date  
 STATE OF MARYLAND  
 PROFESSIONAL ENGINEER  
 6-6-86

2	Revised D.A. "X" Storm Drainage 513 to I-15	9-4-87
1	Revised parameters for areas L, U, A & M	2-13-87
Nº	REVISION	DATE
APPROVED: DEPARTMENT OF PUBLIC WORKS		
<i>[Signature]</i>		11-10-86
Chief, Bureau of Engineering		Date
APPROVED: HOWARD COUNTY OFFICE OF PLANNING & ZONING		
<i>[Signature]</i>		11-4-86
Chief, Division of Land Development & Zoning Administration		Date
<b>CLARK • FINEFROCK &amp; SACKETT</b> ENGINEERS • PLANNERS • SURVEYORS 11315 LOCKWOOD DRIVE SILVER SPRING MARYLAND 20904 (301) 593-1400		
DESIGNED	<b>ROAD CONSTRUCTION PLANS          DRAINAGE AREA MAP          CEDAR ACRES</b>  SECTION II 5TH ELECTION DISTRICT HOWARD COUNTY, MARYLAND FOR: KINGS MEADE LIMITED PARTNERSHIP 3030 Red Branch Rd. #210 Columbia, Maryland 21045	SCALE
GLB		1" = 100'
DRAWN		DRAWING
VLM		9 OF 11
CHECKED		JOB NO.
GLB	85-065	
DATE	FILE NO.	
6-6-86	85-065-D	

F-86-213



**LEGEND:**

- Existing Contour
- Proposed Contour
- Prop. Storm Drain
- Straw Bale Dike or Silt Fence
- Earth Dike
- Inlet Protection
- Stabilized Construction Entrance

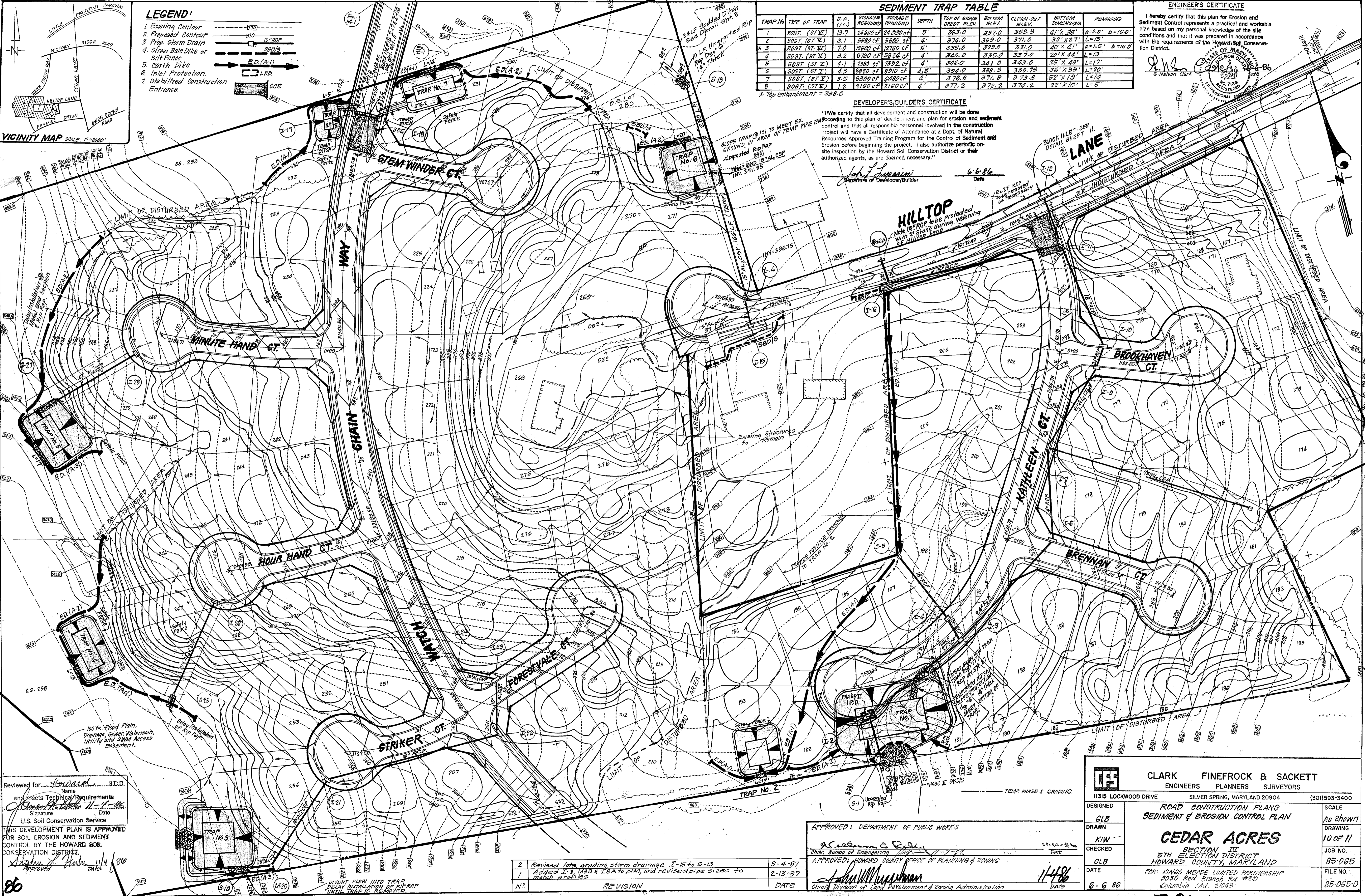
VICINITY MAP SCALE: 1"=200'

TRAP No.	TYPE OF TRAP	D.A. (Ac.)	STORAGE REQUIRED	STORAGE PROVIDED	DEPTH	TOP OF STONE ORST. ELEV.	BOTTOM ELEV.	CLEAN-OUT ELEV.	BOTTOM DIMENSIONS	REMARKS
1	ROST (ST.V)	3.7	2460 cf	24,000 cf	5'	363.0	287.0	359.5	41' X 88'	a=2.0' b=16.0'
2	SOST (ST.V)	3.1	3580 cf	5600 cf	4'	374.0	369.0	371.0	32' X 27'	L=13'
3	ROST (ST.V)	7.0	12200 cf	12160 cf	5'	335.0	329.0	331.0	40' X 41'	a=1.5' b=16.0'
4	SOST (ST.V)	3.2	5780 cf	5824 cf	4'	340.0	335.0	337.0	20' X 44'	L=13'
5	SOST (ST.V)	4.1	7380 cf	7392 cf	4'	346.0	341.0	343.0	25' X 48'	L=17'
6	SOST (ST.V)	4.9	8820 cf	8910 cf	4.5'	394.0	388.5	390.75	36' X 35'	L=20'
7	SOST (ST.V)	3.5	6300 cf	6480 cf	4'	376.8	371.8	373.8	52' X 19'	L=14'
8	SOST (ST.V)	1.2	2160 cf	2160 cf	4'	377.2	372.2	374.2	22' X 10'	L=5'

\* Top embankment = 338.0

**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  
 6-6-86  
 State of Maryland Professional Engineer No. 7139

**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."  
 John J. Lynam  
 Signature of Developer/Builder  
 6-6-86  
 Date



Reviewed for Howard S.C.D. Name and meets Technical Requirements of Howard S.C.D. 11-1-86  
 Signature  
 U.S. Soil Conservation Service  
 THIS DEVELOPMENT PLAN IS APPROVED FOR SOIL EROSION AND SEDIMENT CONTROL BY THE HOWARD SOIL CONSERVATION DISTRICT.  
 Approved 11/4/86 Date

No.	REVISION	DATE
2	Revised lots grading storm drainage I-15 to S-13	9-4-87
1	Added I-8, I-16 & I-18A to plan, and revised pipe sizes to match profiles	2-13-87

APPROVED: DEPARTMENT OF PUBLIC WORKS  
 Chief, Bureau of Engineering  
 APPROVED: HOWARD COUNTY OFFICE OF PLANNING & ZONING  
 Chief, Division of Land Development & Zoning Administration  
 11-4-86  
 Date

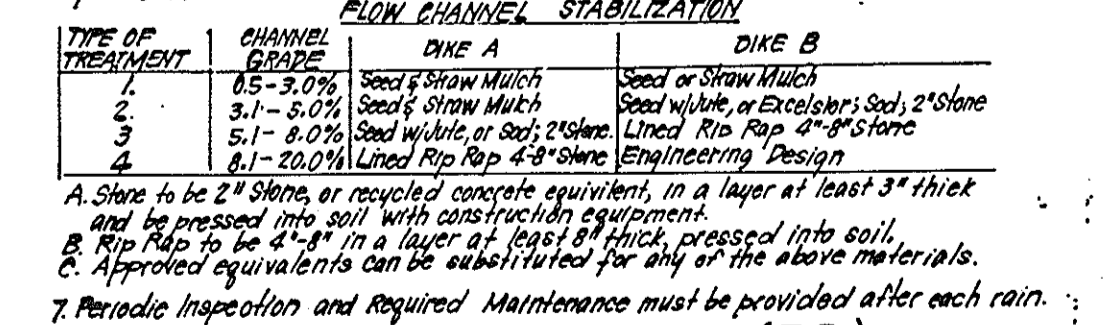
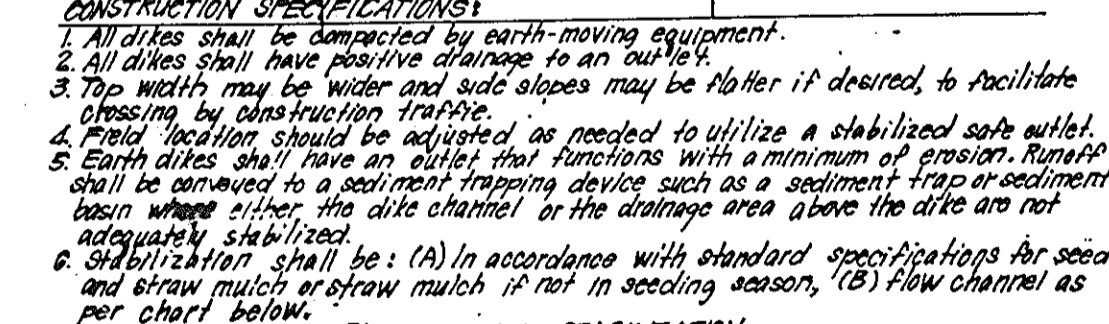
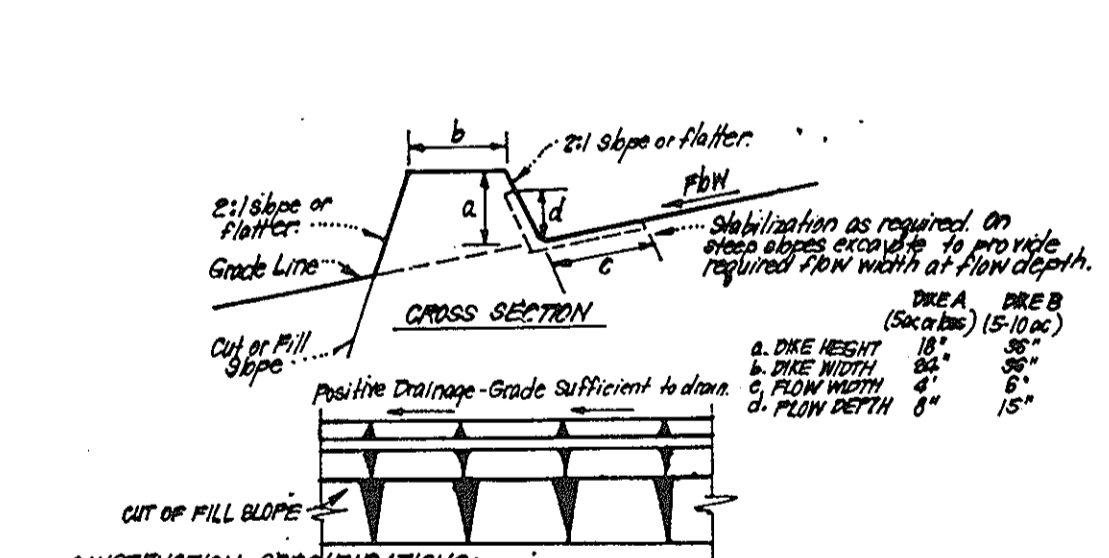
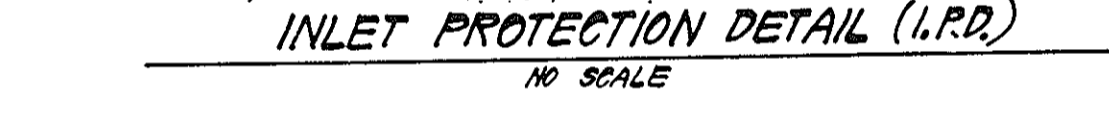
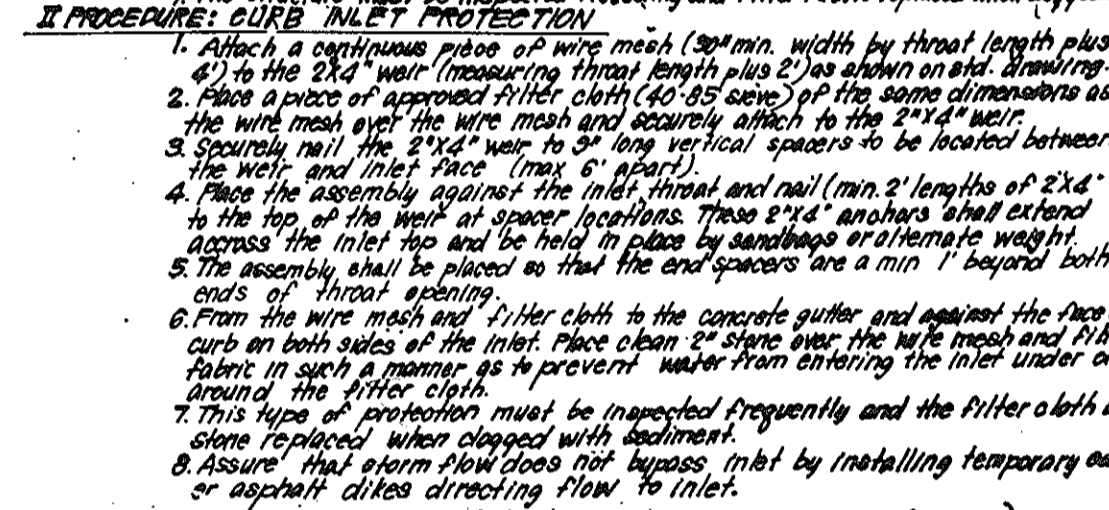
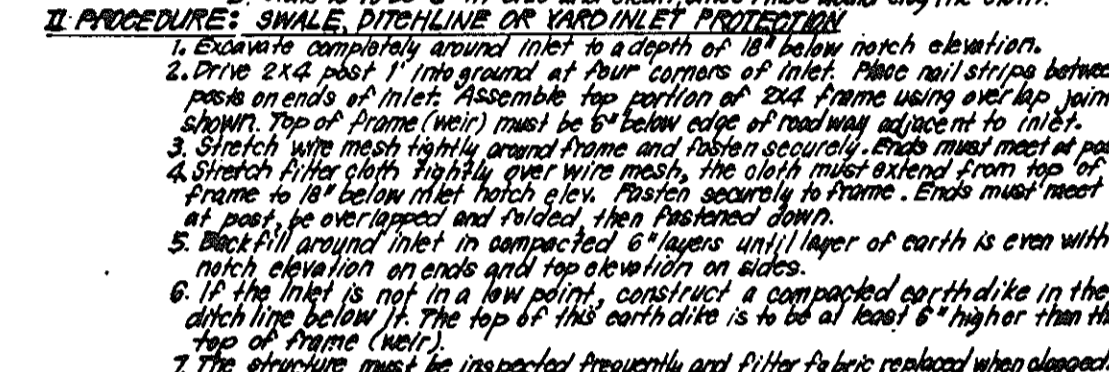
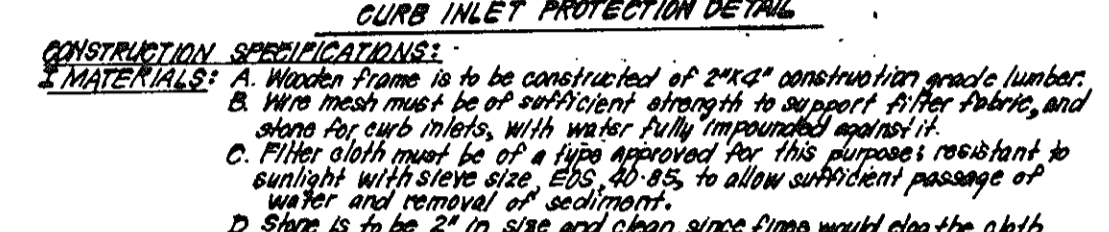
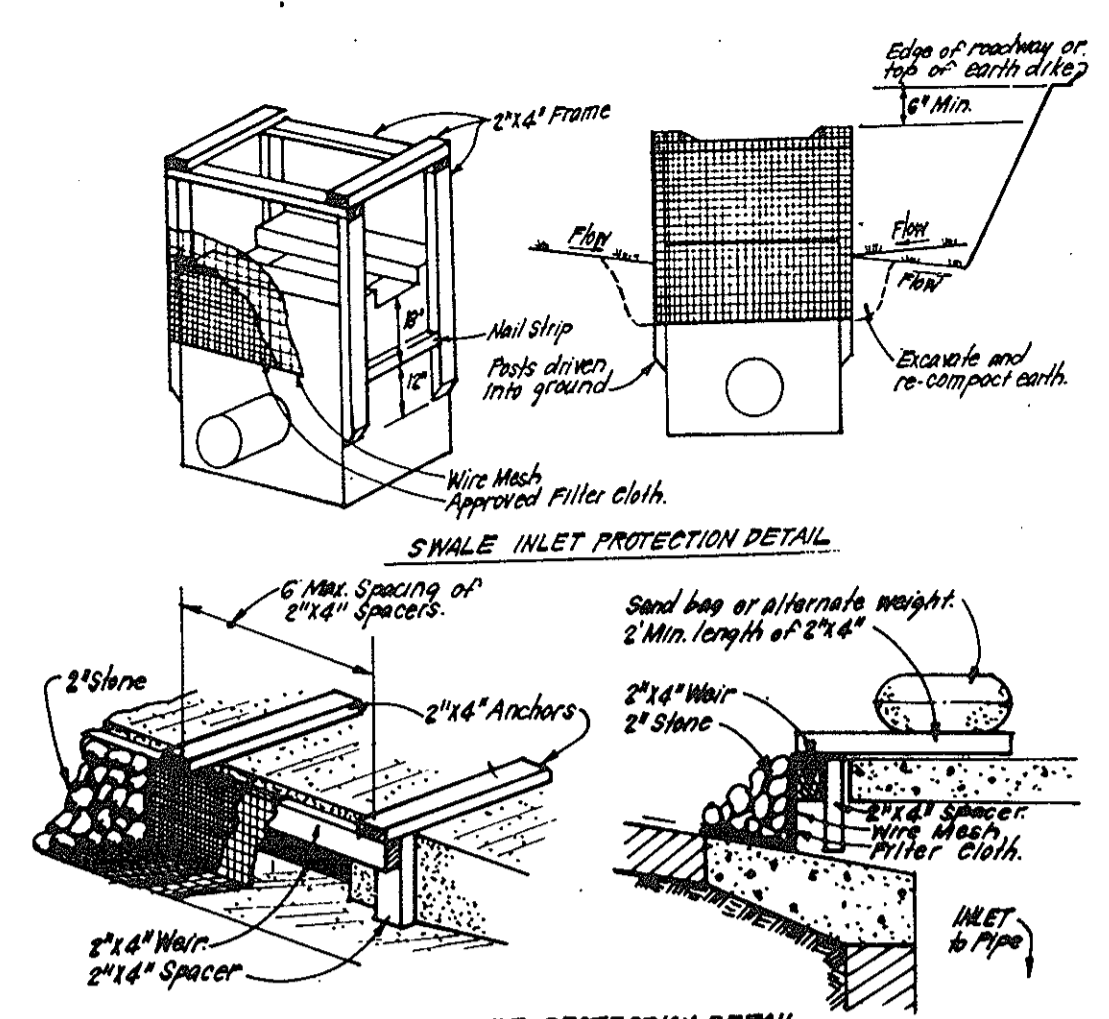
**CLARK FINEFROCK & SACKETT**  
 ENGINEERS PLANNERS SURVEYORS  
 11315 LOCKWOOD DRIVE SILVER SPRING, MARYLAND 20904 (301)593-3400

DESIGNED: GLB  
 DRAWN: KIW  
 CHECKED: GLB  
 DATE: 6-6-86

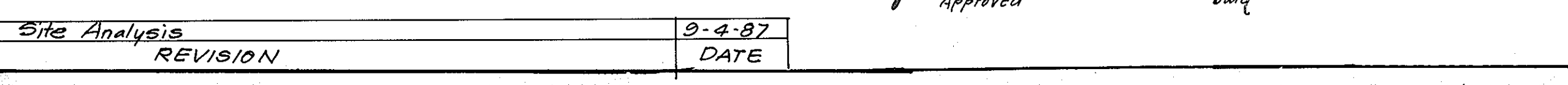
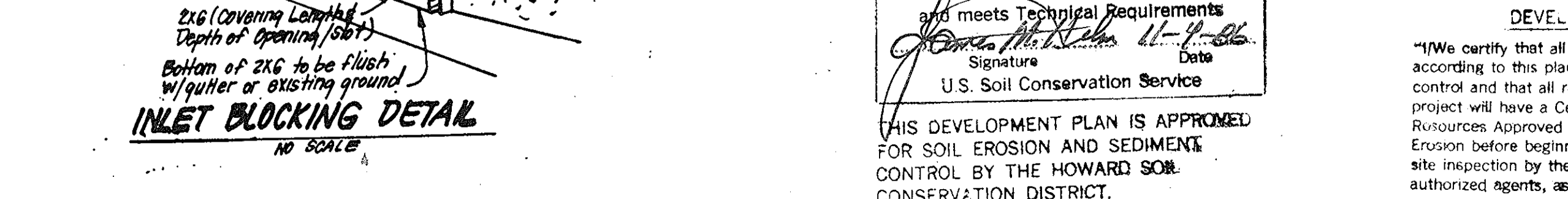
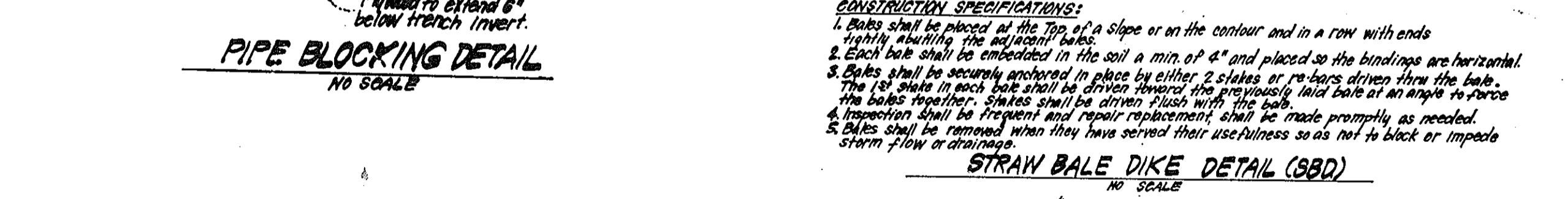
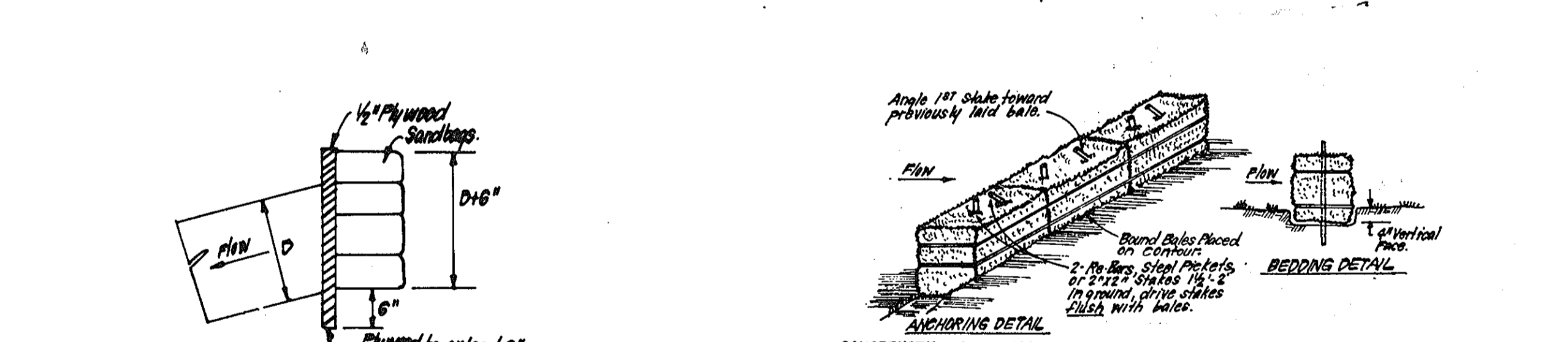
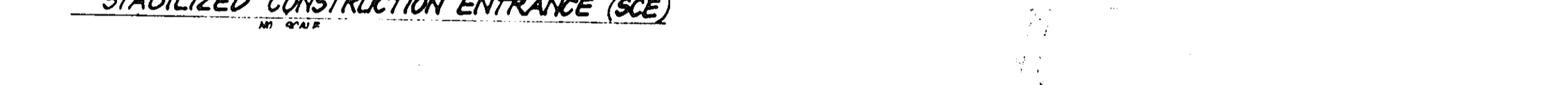
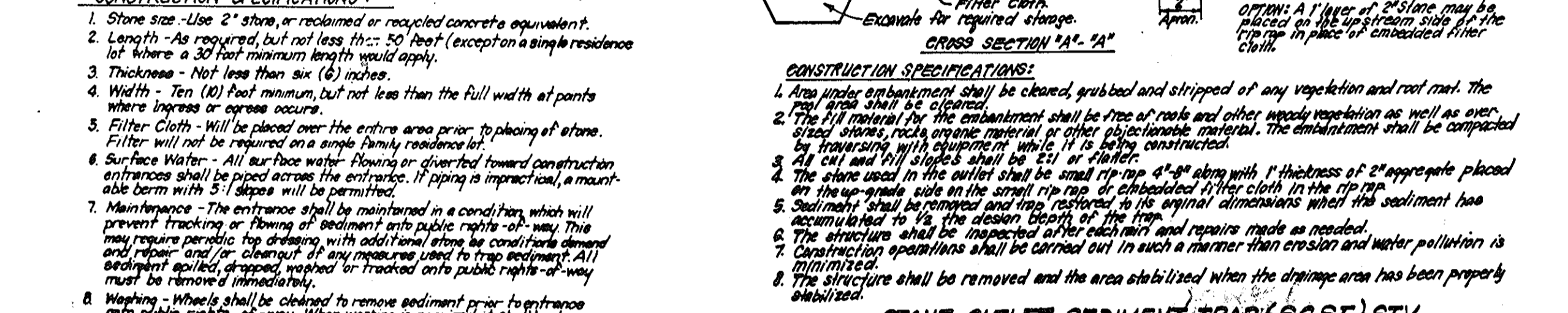
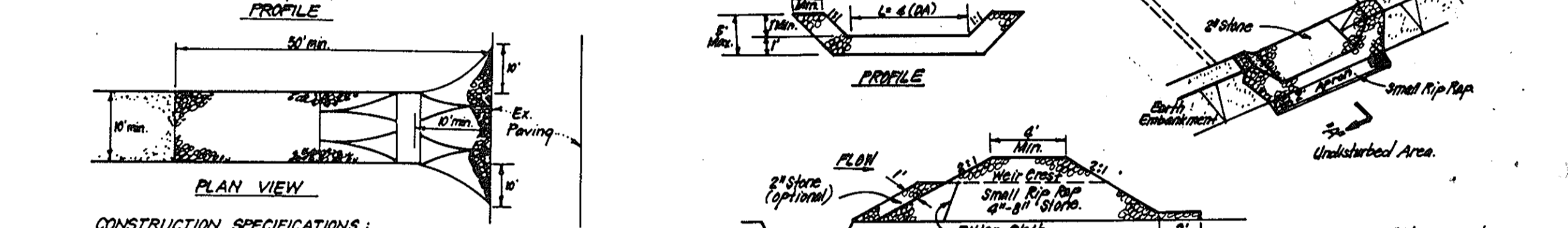
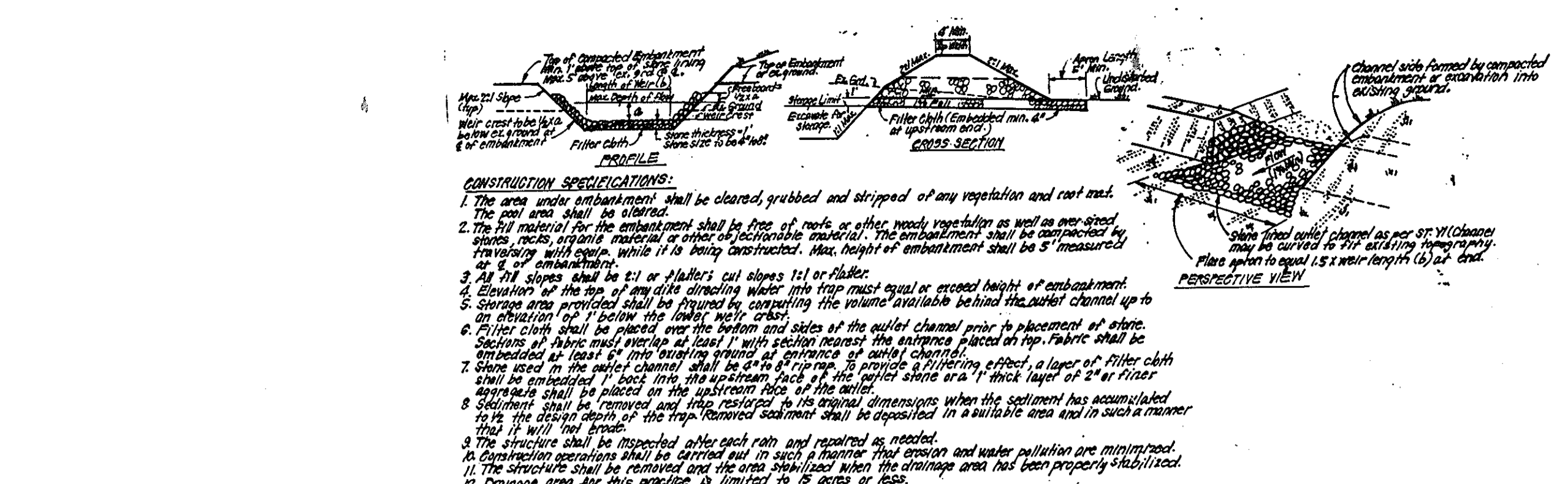
**ROAD CONSTRUCTION PLANS**  
**SEDIMENT & EROSION CONTROL PLAN**

**CEDAR ACRES**  
 SECTION II  
 5TH ELECTION DISTRICT  
 HOWARD COUNTY, MARYLAND  
 FOR: KINGS MEADE LIMITED PARTNERSHIP  
 2030 Red Branch Rd. #210  
 Columbia, Md. 21045

SCALE: As Shown  
 DRAWING: 10 OF 11  
 JOB NO.: 85-065  
 FILE NO.: 85-065-D



NO.	REVISION	DATE
1	Revised Site Analysis	9-4-87



NO.	REVISION	DATE
1	Revised Site Analysis	9-4-87

**PERMANENT SEEDING NOTES**

Apply to graded or cleared areas not subject to immediate further disturbance where a permanent long-lived vegetative cover is needed.

**Seedbed Preparation:** Loosen upper three inches of soil by raking, discing or other acceptable means before seeding.

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

- 1) Preferred - Apply 2 tons per acre dolomitic limestone (92 lbs/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).
- 2) 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 sod. Option (3) Seed with 60 lbs/acre Kentucky 31 Tall Fescue and mulch with 2 tons/acre well anchored straw.

**Mulching -** Apply 1 1/2 to 2 tons per acre (70 to 90 lbs/1000 sq ft) of unrotted 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 reseeding.

**TEMPORARY SEEDING NOTES**

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

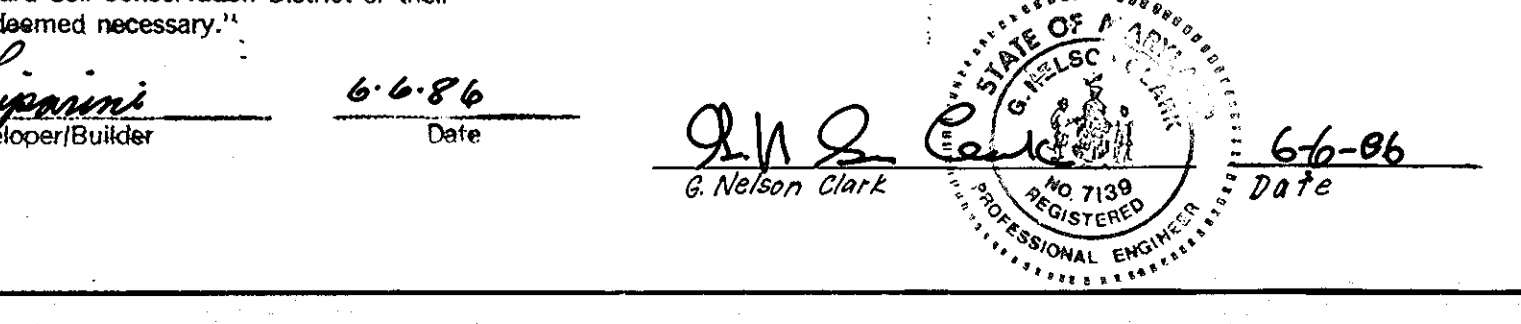
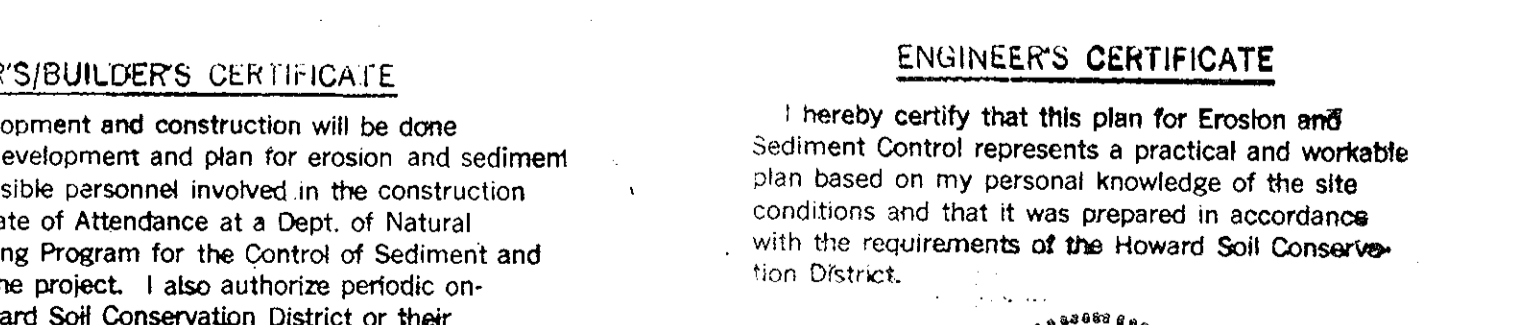
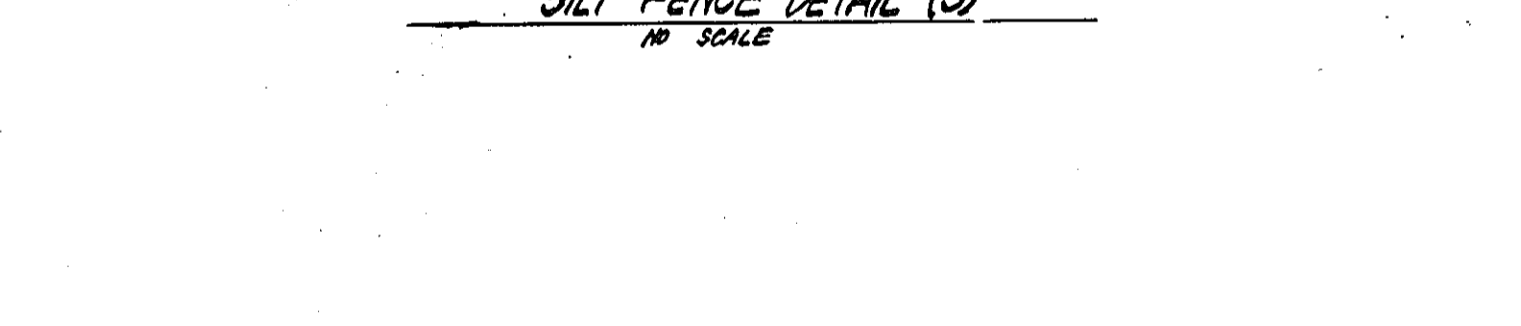
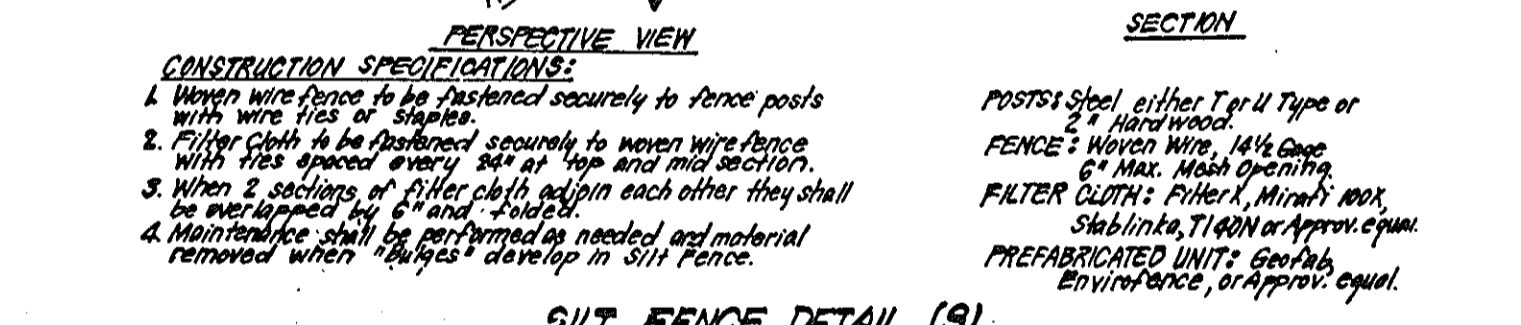
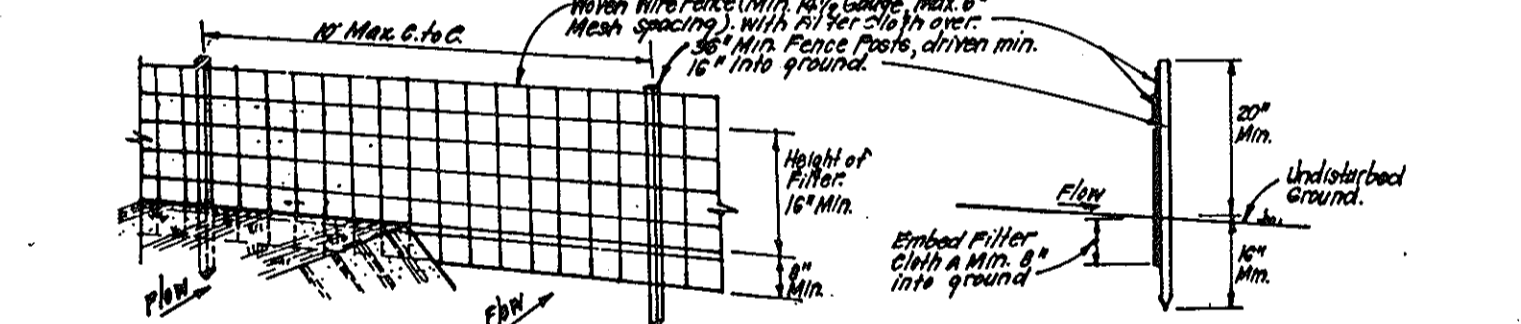
**Seedbed Preparation:** Loosen upper three inches of soil by raking, discing or other acceptable means before seeding.

**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 sod.

**Mulching:** Apply 1 1/2 to 2 tons per acre (70 to 90 lbs/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/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 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL for rate and methods not covered.



NO.	REVISION	DATE
1	Revised Site Analysis	9-4-87

**SEDIMENT CONTROL NOTES**

1) A minimum of 24 hours notice must be given to the Howard County Office of Inspection and Permits prior to the start of any construction. (992-2437)

2) All vegetative and structural practices are to be installed according to the provisions of this plan and are to be in conformance with the 1983 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL.

3) Following initial soil disturbance or redisturbance, permanent or temporary stabilization shall be completed within: a) 7 calendar days for all perimeter sediment control structures, dikes, perimeter slopes and all slopes greater than 3:1, b) 14 days as to all other disturbed or graded areas on the project site.

4) All sediment traps/basins shown must be fenced and warning signs posted around their perimeter in accordance with Vol. 1, Chapter 12, of the HOWARD COUNTY DESIGN MANUAL, Storm Drainage.

5) All disturbed areas must be stabilized within the time period specified above in accordance with the 1983 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL for permanent seedings (Sec. 51) sod (Sec. 54), temporary seeding (Sec. 50) and mulching (Sec. 52). Temporary stabilization with mulch alone can only be done when recommended seeding dates do not allow for proper germination and establishment of grasses.

6) All sediment control structures are to remain in place and are to be maintained in operative condition until permission for their removal has been obtained from the Howard County Sediment Control Inspector

7) Site Analysis:

Item	Value
Total Area of Site	3,933 Acres
Area Disturbed	2,324 Acres
Area to be roofed or paved	2,584 Acres
Area to be vegetatively stabilized	10,655 Acres
Total Cut	Cu. yds
Total Fill	Cu. yds
Offsite waste/borrow area location	N/A

8) Any sediment control practice which is disturbed by grading activity for placement of utilities must be repaired on the same day of disturbance.

9) Additional sediment control must be provided, if deemed necessary by the Howard County DFW sediment control inspector.

10) 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 initial approval by the inspection agency is made.

11) If houses are to be constructed on an "As-Built" basis, at random, Single Lot Sediment Control as shown below shall be implemented. N/A

12) All pipes to be blocked at the end of each day (see detail below). N/A

13) The total amount of straw bale dikes/silt fence equals 255 L.F.

**CONSTRUCTION SEQUENCE**

**PHASE I**

Item	Nr. OF DAYS
1. Obtain Grading Permit.	2
2. Clear and Grub for installation of Sediment Controls.	3
3. Install Traps 1-8; EDs & SCEs.	10
4. Rough Grade Site & Temporarily Stabilize.	30
5. Install Storm Drainage: Delay construction of Rip Rap No. 1. Temporarily end 2" RCP from 2-3 to Trap No. 5-13. Temporarily end 15" A/C S.C. from I-22 to Trap No. 5 Temporarily end 15" ASP from I-14 to Trap No. 6. Block I-2, I-7, I-8. Install temp. diversion ditches to Traps 7&8.	60
6. Construct Paving and Sidewalks. Delay walk construction in area of diversion ditches.	60
7. Stabilize all disturbed areas on-site.	7
8. Flush storm drain system.	1
9. Upon approval of Sediment Control Inspector, remove Phase I sediment control measures and stabilize.	10

**PHASE II**

Item	Nr. OF DAYS
1. Install Phase II Sediment Controls as shown.	2
2. Rough Grade remainder of Kathleen Ct. & Temp. Stabilize.	10
3. Construct remaining storm drainage: A. I-3 to S-1. Install Phase II I.P.D. on I-2. B. M-14 to S-13.	20
C. S-27	
D. Remaining rip rap outfalls	
4. Construct remaining paving and side walks	
5. Fine grade & stabilize remaining areas on site.	20
6. Upon approval of sediment control inspector, remove Phase II sediment controls and stabilize.	10

\* Area near trap No. 1 to be rough graded to Phase I Temp. Grades as shown on Plan.

APPROVED: DEPARTMENT OF PUBLIC WORKS

Chief, Bureau of Engineering

APPROVED: HOWARD COUNTY OFFICE OF PLANNING & ZONING

Chief, Division of Land Development & Zoning Administration

CLARK FINEFROCK & SACKETT  
ENGINEERS PLANNERS SURVEYORS

1135 LOCKWOOD DRIVE SILVER SPRING, MARYLAND 20904 (301)593-3400

DESIGNED: GLB  
DRAWN: KIW  
CHECKED: GLB  
DATE: 6-6-86

SCALE: As Shown  
DRAWING: 11 OF 11  
JOB NO.: 85-065  
FILE NO.: 85-065-D

SECTION II  
8TH ELECTION DISTRICT  
HOWARD COUNTY, MARYLAND  
FOR: KINGS MEADE LIMITED PARTNERSHIP  
2030 Red Branch Rd. #210  
Columbia Md. 21045

6-6-86

F-86-213

Reviewed for \_\_\_\_\_ S.C.D.  
and meets Technical Requirements  
Signature: \_\_\_\_\_  
U.S. Soil Conservation Service

DEVELOPER'S/BUILDERS 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: \_\_\_\_\_  
Date: 6-6-86

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: 6-6-86

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

Signature: \_\_\_\_\_  
Date: 11/4/86

Signature: \_\_\_\_\_  
Date: 6-6-86

Signature: \_\_\_\_\_  
Date: 6-6-86