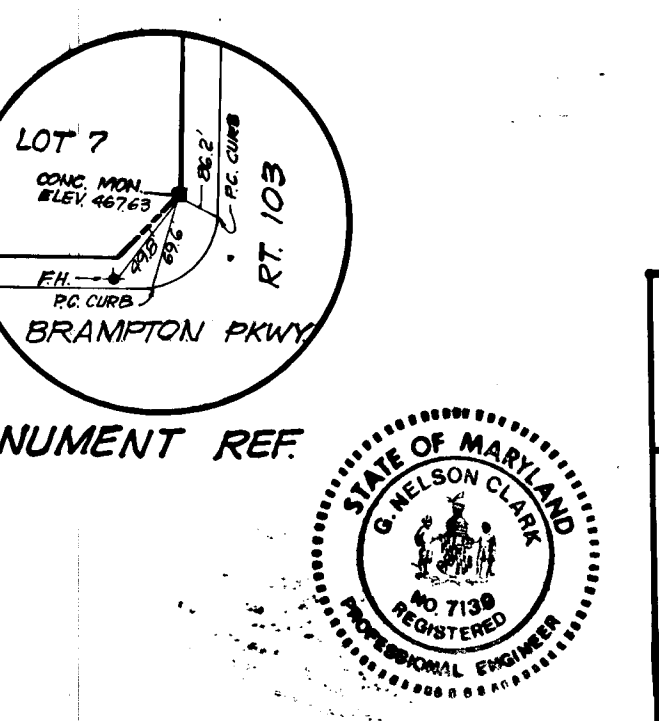


- GENERAL NOTES:**
- All Storm Drain & Paving shall be constructed in accordance with the latest details and specifications of How. Co. & M.D. S.H.A.
  - Types of Storm Drain Structures refer to the Standard Details of How. Co. & Maryland State Highway Administration.
  - Trench Compaction for Storm Drains within Road or Street Right of way limits shall be in accordance with the latest Howard Co. Road Code.
  - Information concerning underground utilities was obtained from available records, but the Contractor must determine the exact location and elev. of the 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 control services, parking, and signing to be done in accordance with the Manual of Traffic Control Devices, 1971 Edition.
  - Sag and Crest Vertical Curves were designed in accordance with "A Policy on Geometric Design of Rural Highways", 1965, by A.A. S.H.O.
  - Provide concrete Sidewalk Ramps in curbs, where shown in plan. See detail sht. 3.
  - Design Speed: 30R/W=25mph, 60R/W=30mph, 80R/W=40 mph.
  - Zoning: R-20



**DEVELOPER'S CERTIFICATE**

I certify that all development and/or construction will be done according to this plan of development and plan for Erosion and Sediment Control, and I also authorize periodic on-site inspection by the Howard Soil Conservation District or their authorized agents as are deemed necessary. Deviation from this plan will not be made unless authorized by the Howard Soil Conservation District.

*Signature: Sigilas Zubny*  
Date: \_\_\_\_\_

Reviewed for HOWARD COUNTY S.C.D.  
Name: \_\_\_\_\_  
and meets Technical Requirements  
of Howard County 2/5/80  
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: William J. Howe*  
Approved: \_\_\_\_\_ Date: 2-5-80

**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*  
G. Nelson Clark Date: 2-4-80

AS-BUILT SURVEY CERTIFIED BY  
G. NELSON CLARK, REG. PROFESSIONAL ENGINEER No. 7139 9-20-85

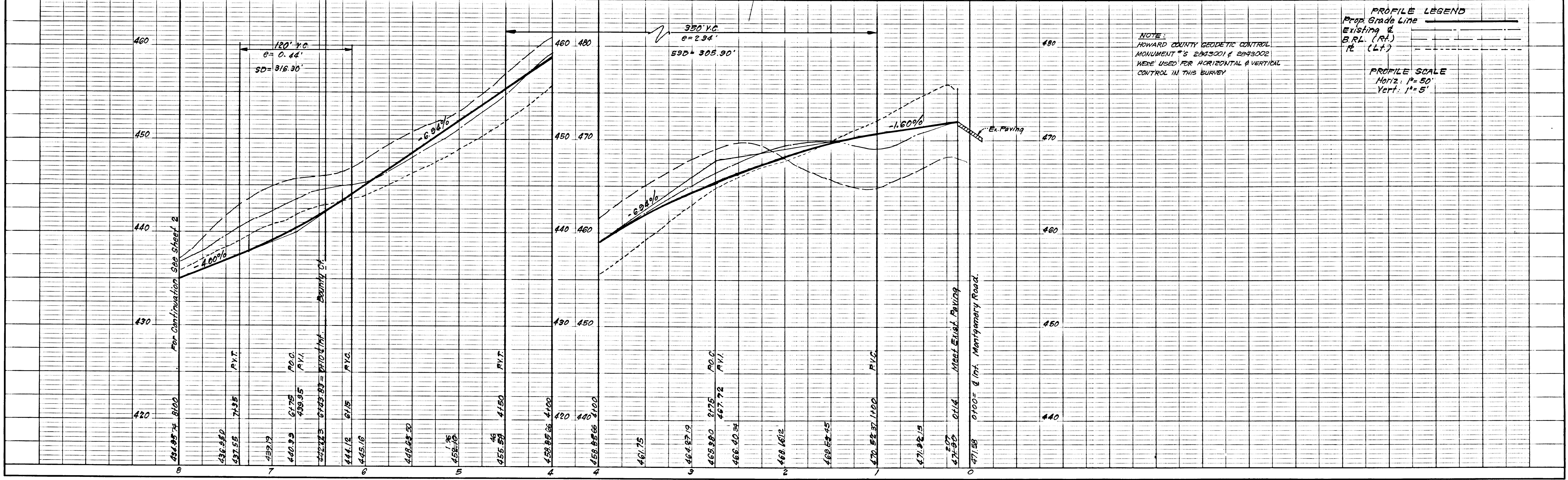
NO.	REVISION	DATE
1	Revised sidewalk location at Brampton Pkwy. as per Howard County comments of January 25, 1984.	1-31-84

APPROVED: Department of Public Works  
*Signature: G. Nelson Clark* 2-6-80 Date  
Chief, Bureau of Engineering

APPROVED: Howard County Office of Planning and Zoning  
*Signature: John Musselman* 2-5-80 Date  
Chief, Division of Land Development

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

DESIGNED W.R.M.C. J.L.S.	<b>ROAD CONSTRUCTION PLANS BRAMPTON PARKWAY BRAMPTON HILLS</b> SECTION 1 AREA 1 2ND ELECTION DISTRICT HOWARD COUNTY, MARYLAND FOR: CELTA CORPORATION 10325 Llyod Road Potomac, Md. 20854	SCALE AS SHOWN
DRAWN K.L.W.		DRAWING 10A 14
CHECKED J.L.S.		JOB NO. 77-920
DATE Feb, 1980		FILE NO. 77-920-D



NOTE:  
HOWARD COUNTY GEODETIC CONTROL MONUMENT #'S 2843001 & 2843002 WERE USED FOR HORIZONTAL & VERTICAL CONTROL IN THIS SURVEY

**PROFILE LEGEND**  
Prop. Grade Line  
Existing G.  
B.R.L. (Rt.)  
R (Lt.)

**PROFILE SCALE**  
Horiz. 1"=50'  
Vert. 1"=5'



**DEVELOPER'S CERTIFICATE**

I certify that all development and/or construction will be done according to this plan of development and plan for Erosion and Sediment Control, and I authorize periodic on-site inspection by the Howard Soil Conservation District or their authorized agents as are deemed necessary. Deviation from this plan will not be made unless authorized by the Howard Soil Conservation District.

Signature: *Robert W. Zichner* Date: 12-3-79

**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.



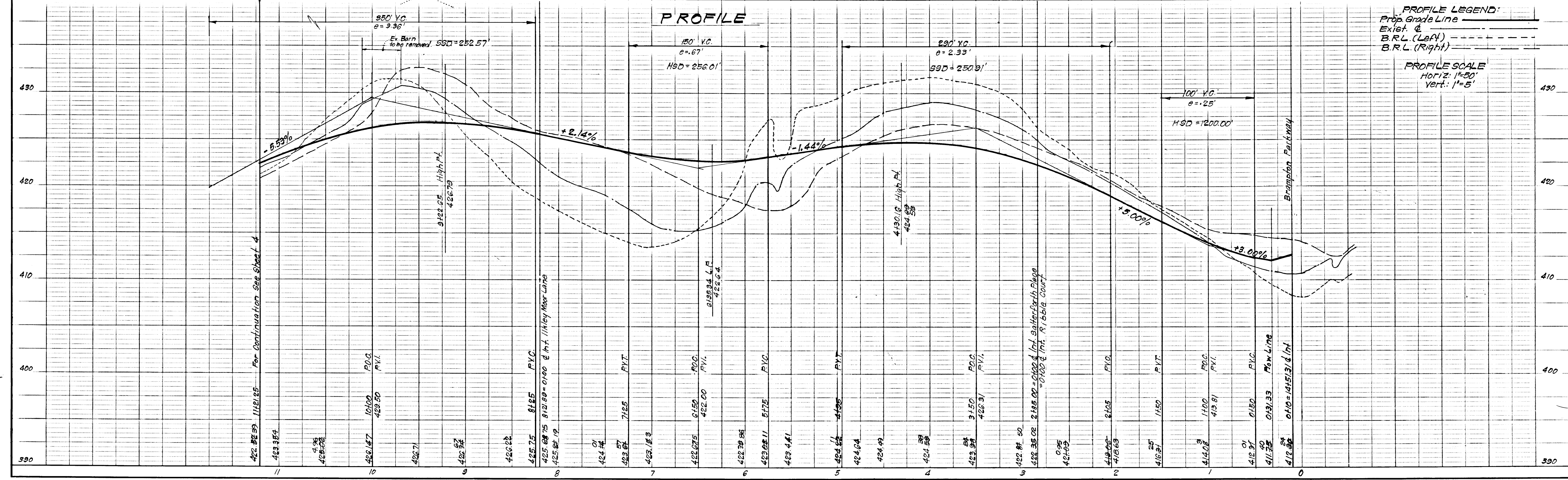
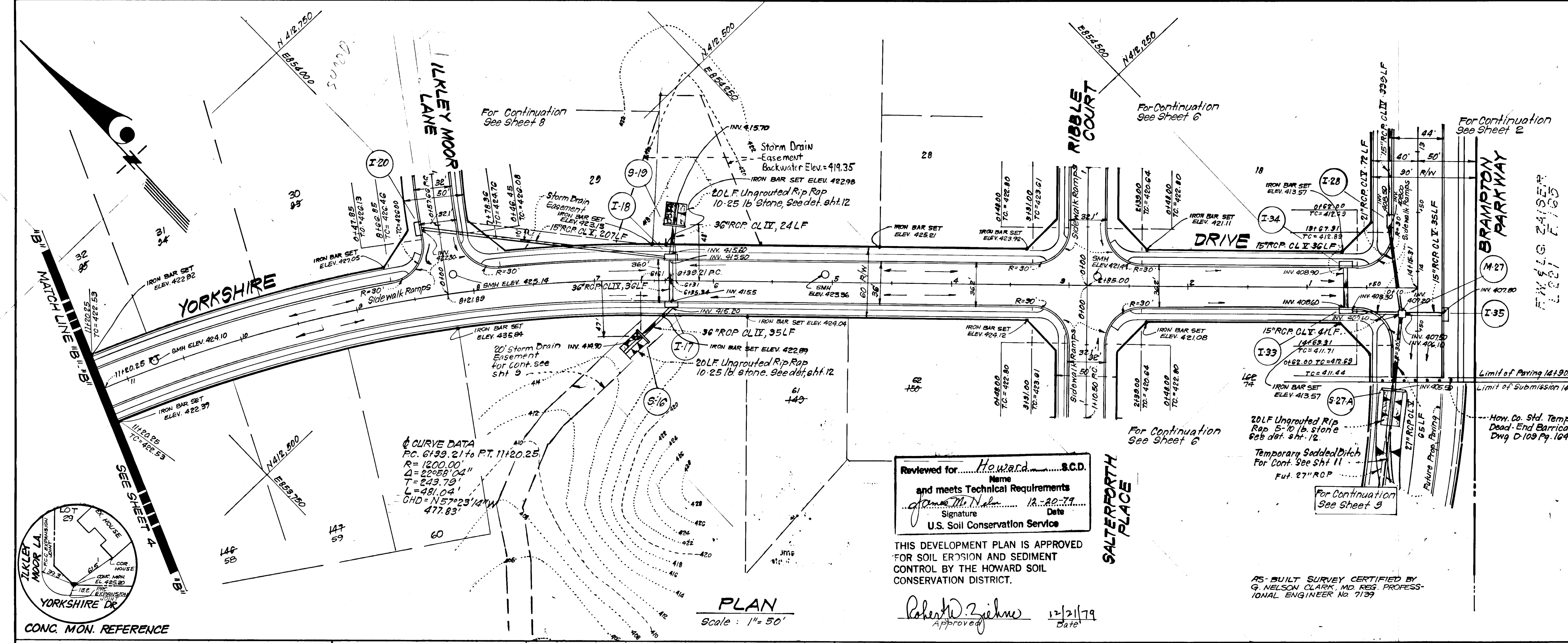
Signature: *G. Nelson Clark* Date: 12-3-79

APPROVED: Department of Public Works  
*W. O. Felt* 2-6-80  
 Chief, Bureau of Engineering Date

APPROVED: Howard County Office of Planning and Zoning  
*William M. ...* 2-5-80  
 Chief, Division of Land Development Date

**CLARK • FINEFROCK & SACKETT**  
 ENGINEERS • PLANNERS • SURVEYORS  
 11315 LOCKWOOD DRIVE • SILVER SPRING, MARYLAND 20908 • (301) 593-3400

DESIGNED J.L.S.	ROAD CONSTRUCTION PLANS YORKSHIRE DRIVE	AS SHOWN
DRAWN	<b>BRAMPTON HILLS</b>	DRAWING 3 of 14
K.I.W. CHECKED R.J.S.	SECTION 1 AREA 1 2nd ELECTION DISTRICT HOWARD COUNTY, MARYLAND	77 920
DATE Apr. 1979	FOR: CELTA CORPORATION 10323 Lloyd Road Potomac, Md. 20854	FILE NO. 77-920-D

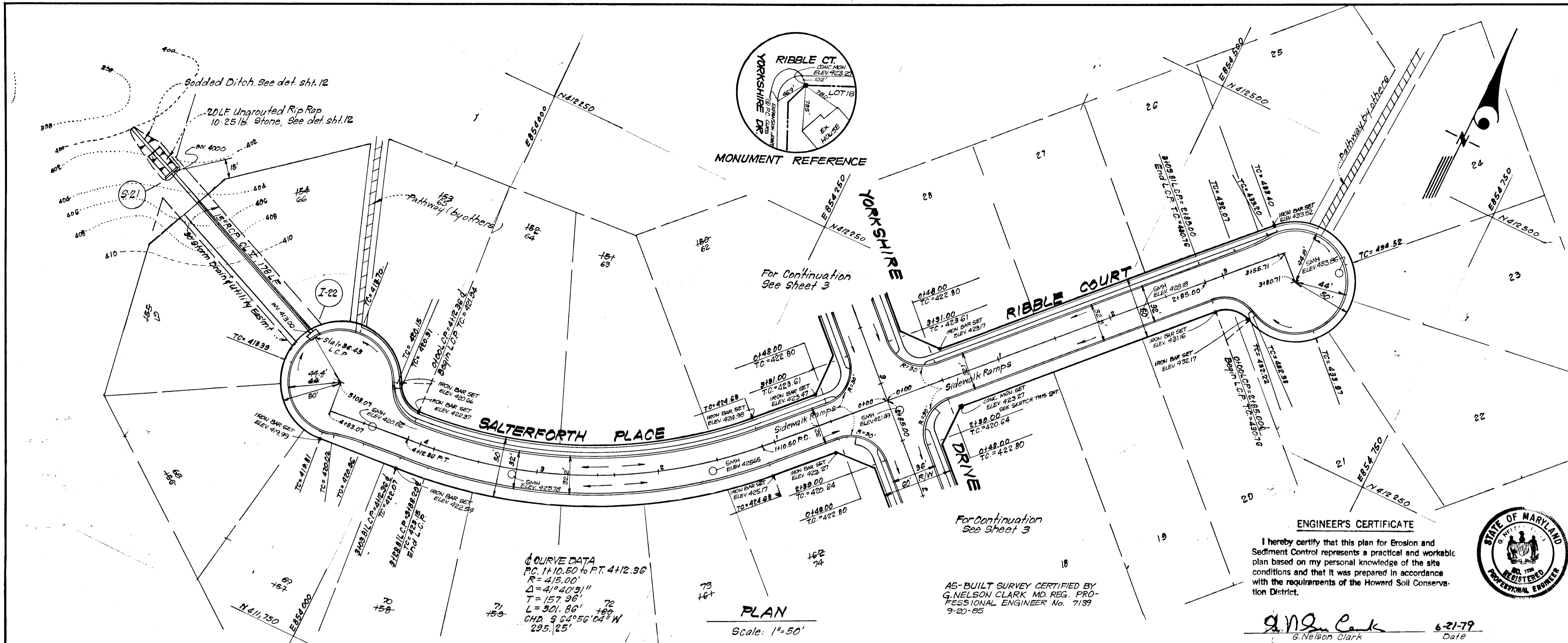


AS-BUILT 9-20-85

7-80-44







Reviewed for Howard S.C.D.  
Name  
and meets Technical Requirements  
Thomas M. Nelson 12-20-79  
Signature Date  
U.S. Soil Conservation Service  
FOR SOIL EROSION AND SEDIMENT CONTROL BY THE HOWARD SOIL CONSERVATION DISTRICT.

**DEVELOPER'S CERTIFICATE**  
I certify that all development and/or construction will be done according to this plan of development and plan for Erosion and Sediment Control, and I authorize periodic on-site inspection by the Howard Soil Conservation District or their authorized agents as are deemed necessary. Deviation from this plan will not be made unless authorized by the Howard Soil Conservation District.

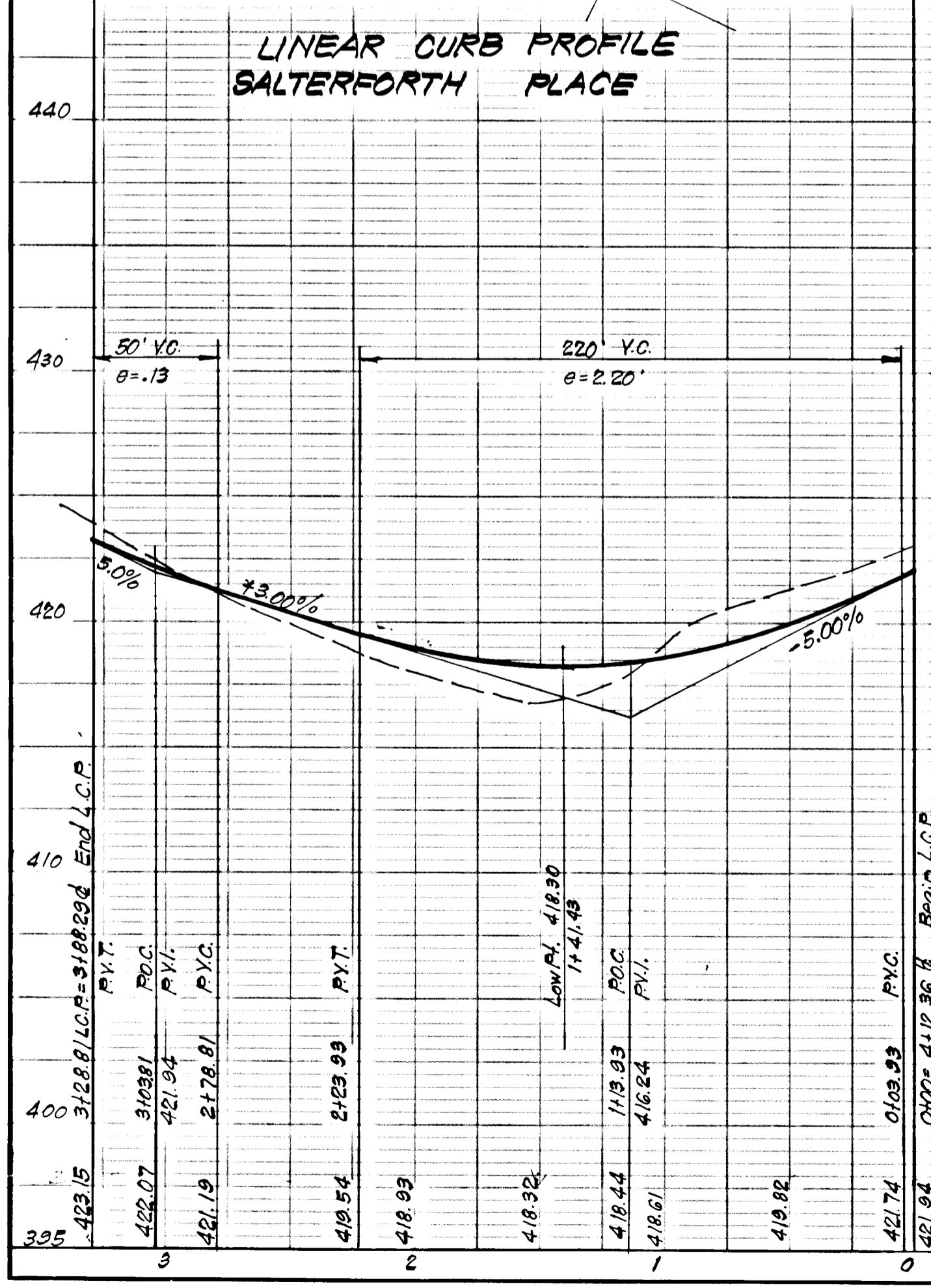
Robert W. Nelson 12/21/79  
Approved Date  
Thomas M. Nelson 12-3-79  
Signature Date

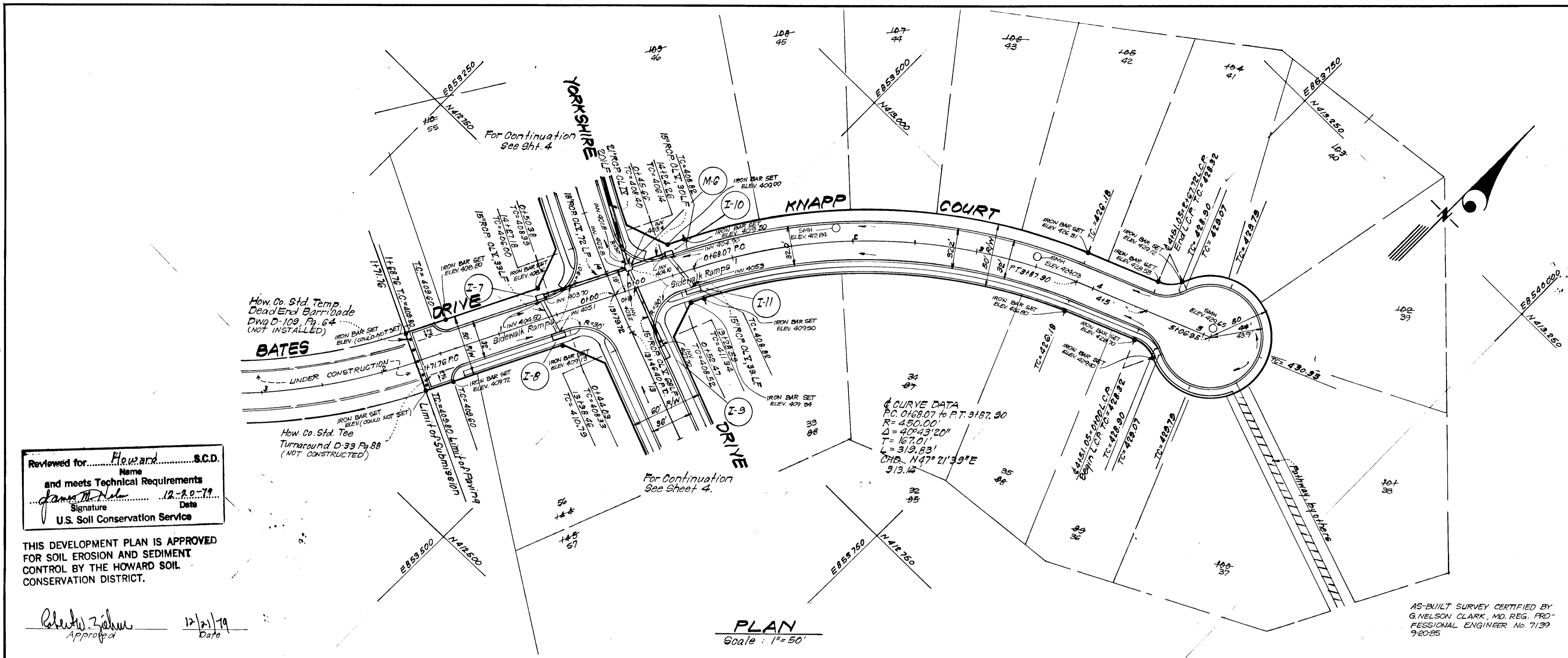
APPROVED: Department of Public Works  
W. J. F. Jones 2-6-80  
Chief, Bureau of Engineering Date  
APPROVED: Howard County Office of Planning and Zoning  
Frank W. Williams 2-5-80  
Chief, Division of Land Development Date

**CLARK • FINEFROCK & SACKETT**  
ENGINEERS • PLANNERS • SURVEYORS  
11315 LOCKWOOD DRIVE • SILVER SPRING, MARYLAND 20906 • (301) 593-3400

DESIGNED J.L.S.	ROAD CONSTRUCTION PLANS SALTERFORTH PLACE & RIBBLE COURT	SCALE As Shown
DRAWN K.I.W.	<b>BRAMPTON HILLS</b>	DRAWING 60A/14
CHECKED R.J.S.	SECTION 1 AREA 1 2nd ELECTION DISTRICT HOWARD COUNTY, MARYLAND	77-920
DATE Apr, 1979	FOR: CELTA CORPORATION 10325 Lloyd Road Potomac, Md. 20854	FILE NO. 77-920-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.  
G. Nelson Clark 6-21-79  
Date





**DEVELOPER'S CERTIFICATE**  
 I certify that all development and/or construction shall be done according to this plan of development and plan for Erosion and Sediment Control, and I authorize periodic on-site inspection by the Howard Soil Conservation District or their authorized agents as are deemed necessary. Deviation from this plan will not be made unless authorized by the Howard Soil Conservation District.

*[Signature]* 12-31-79  
 (Signature) Date  
 Sigfus Zubkus

**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]* 6-21-79  
 G. Nelson Clark Date

**STATE OF MARYLAND**  
 REGISTERED PROFESSIONAL ENGINEER

Reviewed for: Howard S.C.D.  
 Name  
 and meets Technical Requirements  
*[Signature]* 12-22-79  
 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]* 12/21/79  
 Approved Date

APPROVED: Department of Public Works:

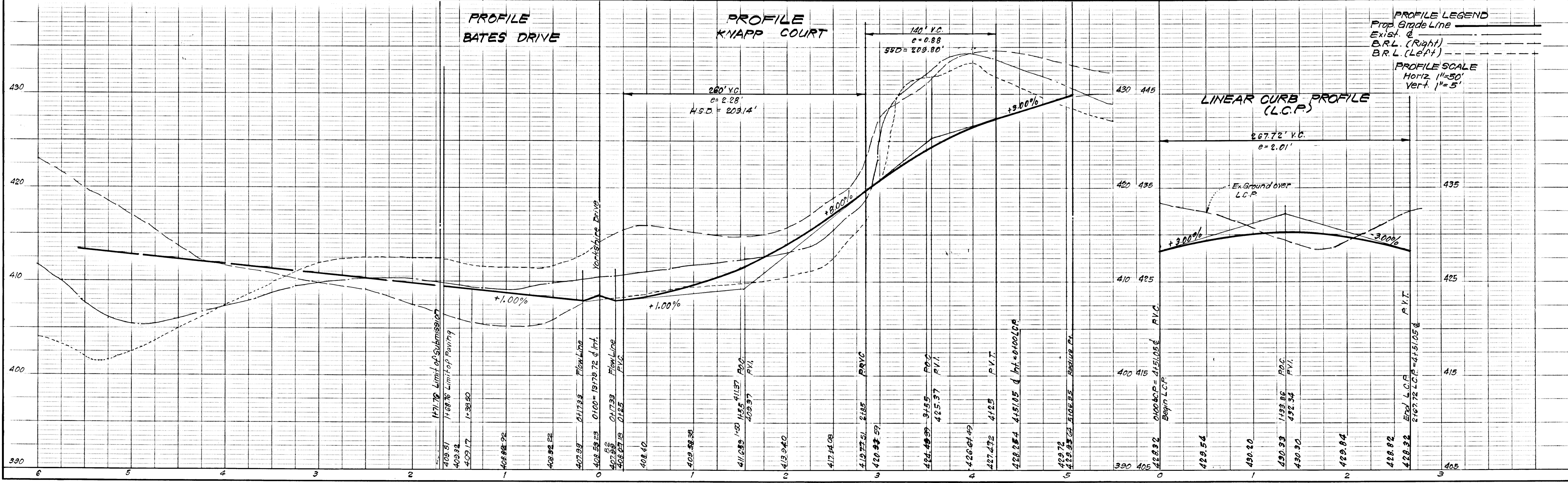
*[Signature]* 2-6-80  
 Chief, Bureau of Engineering Date

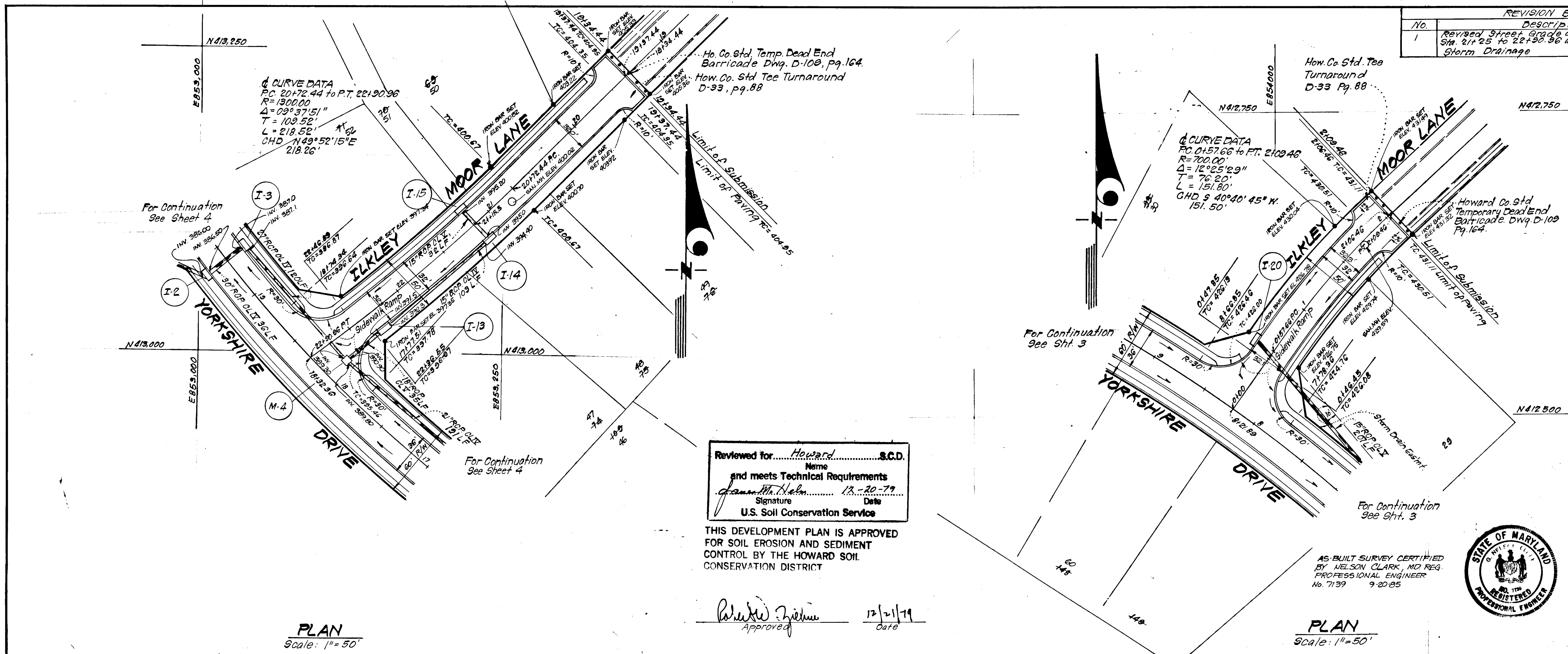
APPROVED: Howard County Office of Planning and Zoning

*[Signature]* 2-5-80  
 Chief, Division of Land Development Date

**CLARK • FINEFROCK & SACKETT**  
 ENGINEERS • PLANNERS • SURVEYORS  
 1315 LOCKWOOD DRIVE • SILVER SPRING, MARYLAND 20906 • (301) 593-3400

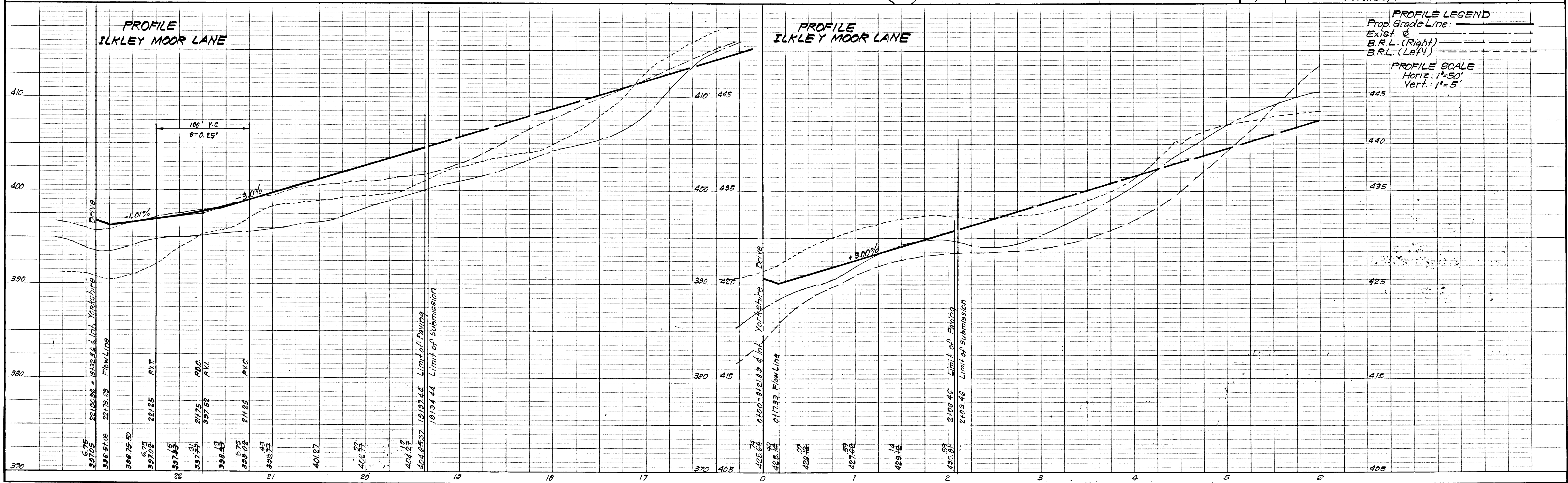
DESIGNED	JLS	ROAD CONSTRUCTION PLANS BATES DRIVE & KNAPP COURT	SCALE	AS SHOWN
DRAWN	K.I.W.	<b>BRAMPTON HILLS</b>	DRAWING	7 of 14
CHECKED	R.J.S.	SECTION 1 AREA 1 2nd ELECTION DISTRICT HOWARD COUNTY, MARYLAND		77-920
DATE	Apr, 1979	FOR: DELTA CORPORATION 10325 Lloyd Road Potomac, Md 20854	FILE NO.	77-920-D





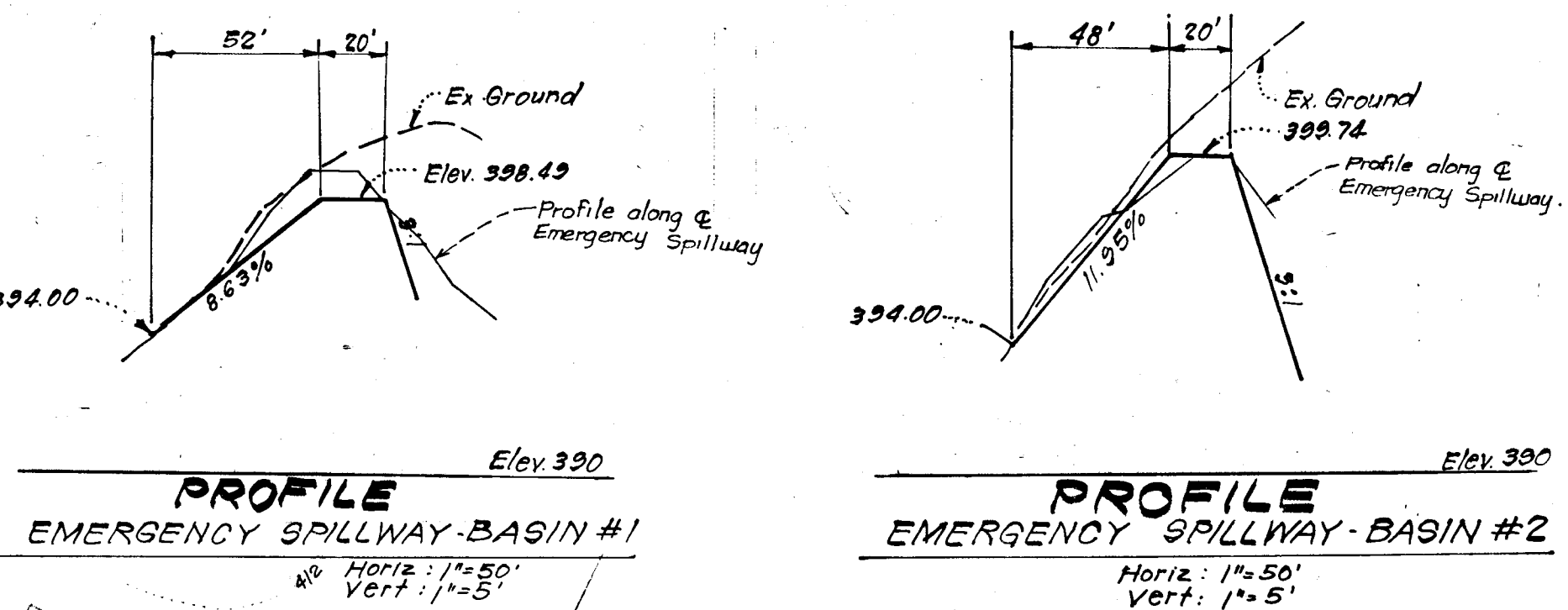
**PLAN**  
Scale: 1"=50'

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

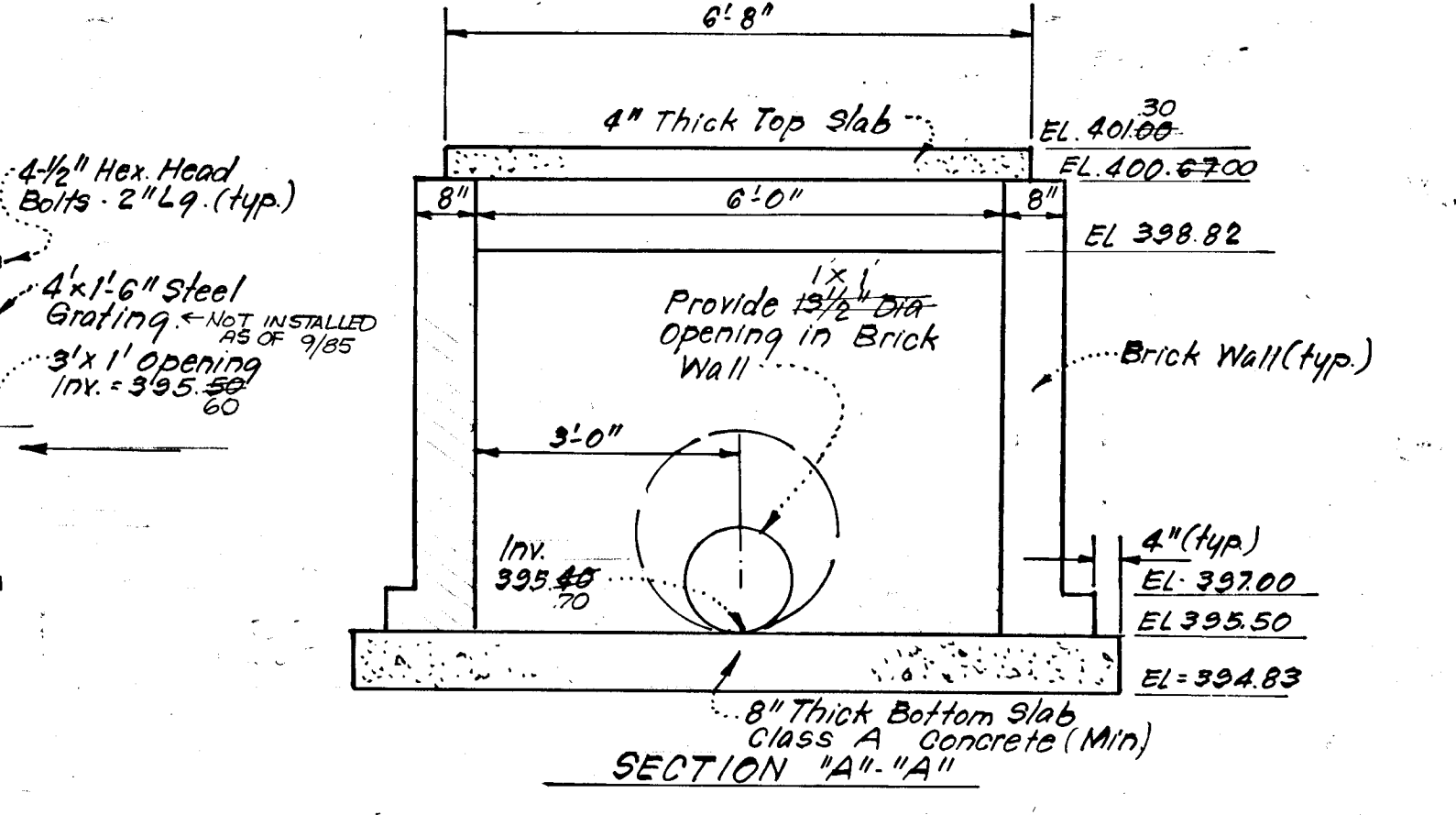
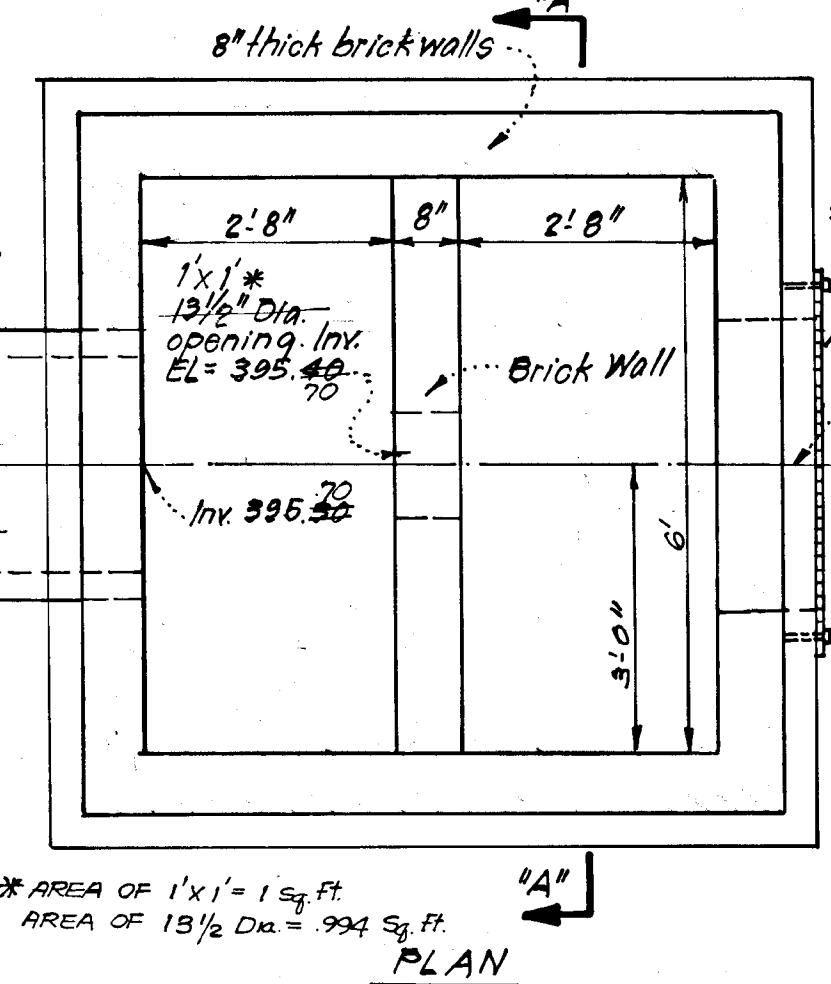




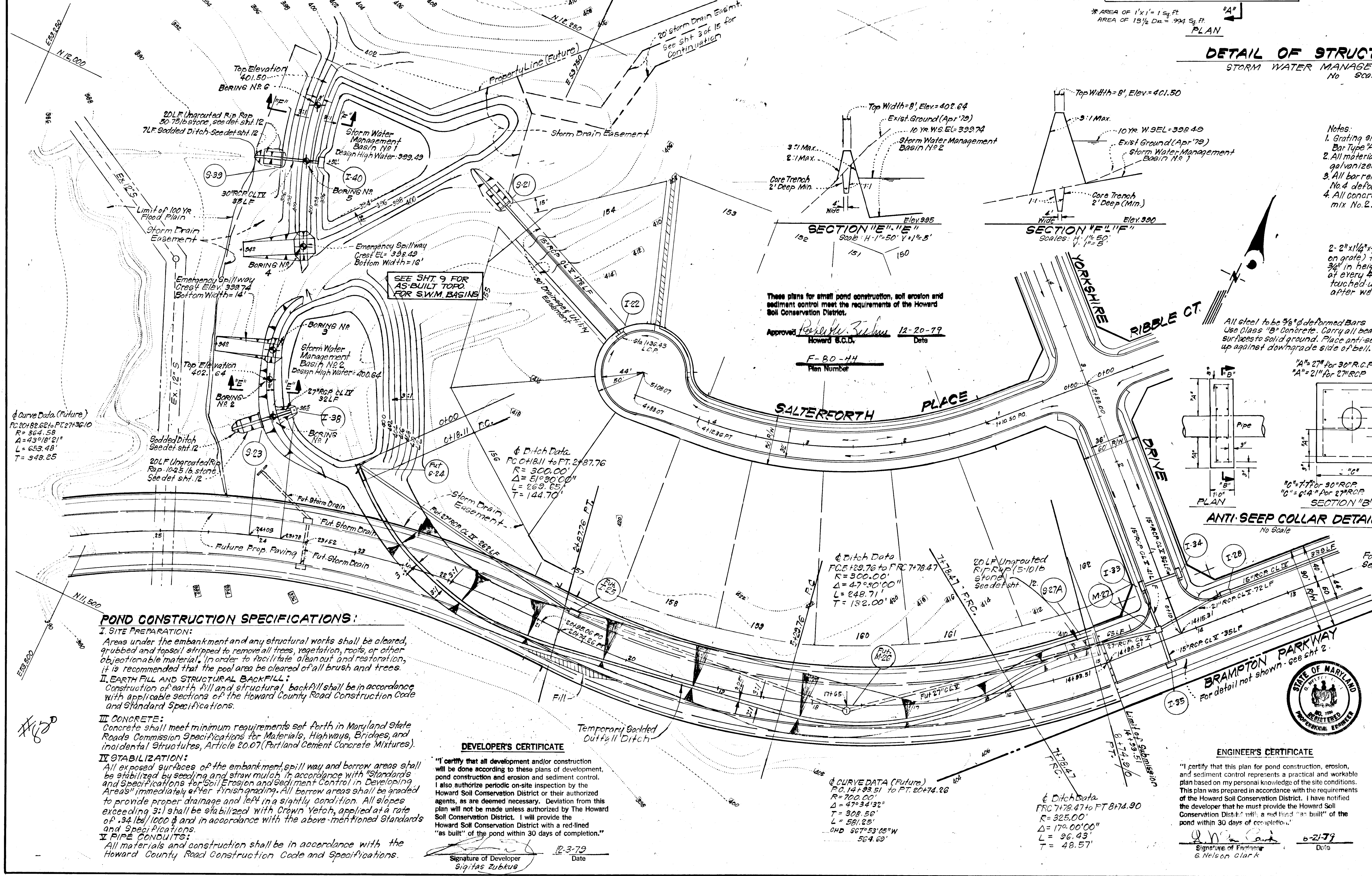
BORING No	LOCATION	DEPTH FROM T.O.	DESCRIPTION OF MATERIALS	UNIFIED CLASS
1	S.W.M. Basin #2 Principal Spillway	0' - 4'	Brown, Moist, Micaceous, Clayey SILT, Trace Sand, Trace Roots in sample 1.	ML-MH
		4' - 5'	Brown, Moist, Silty, Clayey SAND, Trace Gravel with rock fragments.	SM-SC
		5' - 6'	Light Green, Moist, Micaceous Silty SAND-Sandy SILT, Trace clay.	SM-ML
2	S.W.M. Basin #2	0' - 1.5'	Brown, Moist, Silty CLAY, Trace sand and roots.	CL-CH
		1.5' - 3.5'	Brown, Moist, Micaceous, clayey SILT, Trace sand and gravel.	ML
		3.5' - 5.0'	Brown, Moist, Silty, CLAY, with sand, trace gravel.	CL
3	S.W.M. Basin #2 Emergency Spillway	0' - 1.5'	Brown, Moist, Silty CLAY, trace roots.	CL-CH
		1.5' - 4.5'	Brown, Moist, Micaceous, clayey SILT, trace sand	ML
		4.5' - 5.5'	Tan, Moist, Silty, clayey SAND, trace gravel.	SM-SC
4	S.W.M. Basin #1 Emergency Spillway	0' - 1.5'	Brown, Moist, Clayey SAND, trace silt, gravel and roots.	SC
		1.5' - 3.5'	Brown, Moist, Micaceous, Sandy SILT, trace clay.	ML
		3.5' - 5.0'	Tan, Moist, Silty SAND-sandy SILT	SM-ML
5	S.W.M. Basin #1 Principal Spillway	0' - 2'	Brown, Moist to wet, Clayey SILT, trace sand and roots (Water on roots @ 1.5')	ML-MH
		2' - 3.5'	Brown, Moist to wet, Silty CLAY, trace sand.	CL-CH
		3.5' - 5.5'	Brown, Moist, clayey SILT, trace sand and gravel.	ML
6	S.W.M. Basin #1	0' - 1.5'	Brown, Moist, Clayey SILT, trace sand.	ML
		1.5' - 3.5'	Light Brown, Moist, Silty, clayey SAND, little gravel.	SM-SC
		3.5' - 6.0'	Light Brown, Moist, Micaceous Sandy SILT-Silty SAND, trace clay.	ML-SM



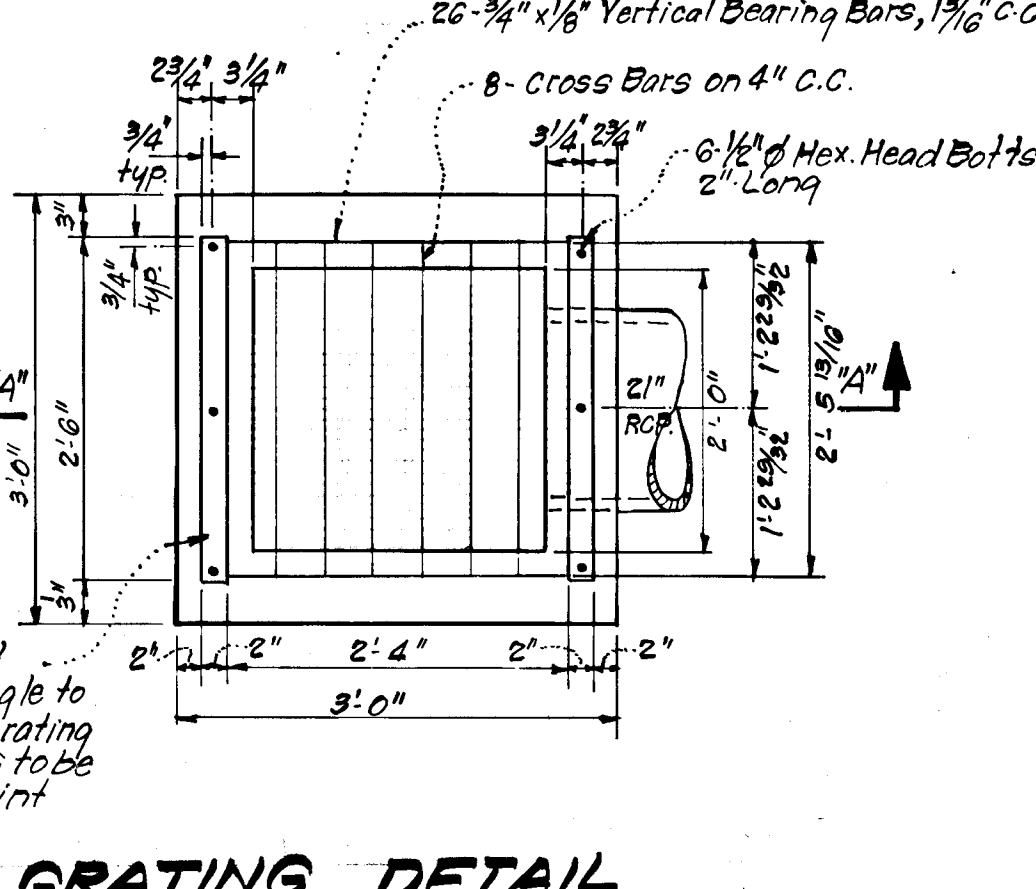
Notes For Top Slab Reinforcing See H.C. Std. Fig. 4.02  
 1. Brick Walls to be 8" thick to elevation 397.00 3/2" thick from there to bottom 8'0".  
 Grating Notes:  
 1. See grating det. sheet for bar spacing.  
 2. Provide 2" x 3/4" x 3/4" 1/2" L, Centered on grate. Weld securely to grating at every 4th bar.



**DETAIL OF STRUCTURE I-38**  
 STORM WATER MANAGEMENT BASIN NR 2  
 No Scale

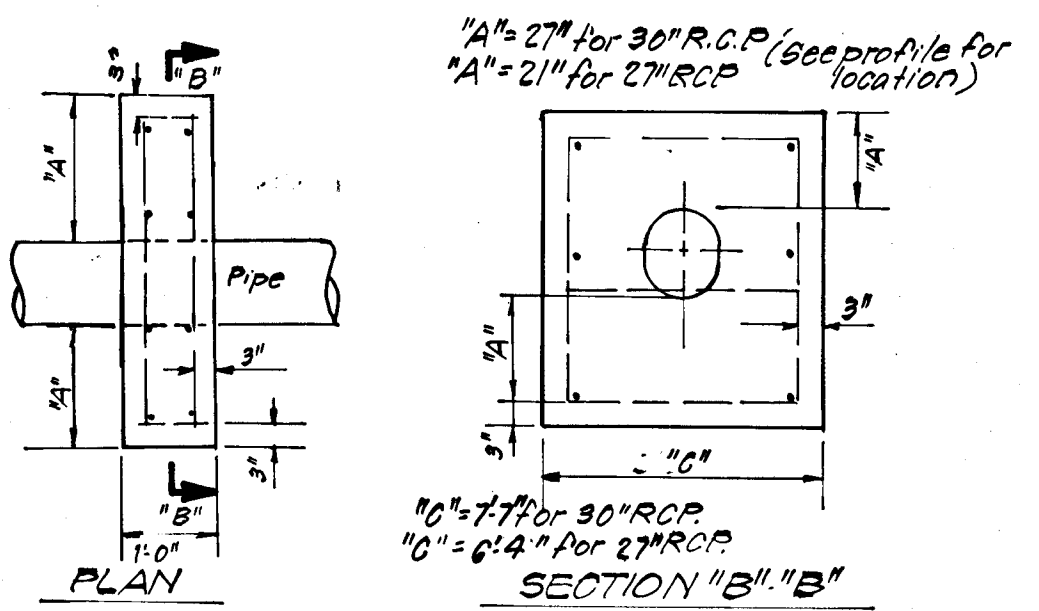


Notes:  
 1. Grating shall be steel "I" rivet x Bar Type "A" or approved equal.  
 2. All materials to be hot-dipped galvanized.  
 3. All bar reinforcement to be No. 4 deformed bars @ 4" o.c.  
 4. All concrete to be conc. mix No. 2.



**GRATING DETAIL**  
 No Scale

All steel to be 3/8" deformed bars Use Class "B" concrete. Carry all bearing surfaces to solid ground. Place anti-seep collar up against downgrade side of bell.



**ANTI-SEEP COLLAR DETAIL**  
 No Scale

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

Approved: *R. Ziebau* Date 12/21/79  
 Howard S.C.D.

AS-BUILT SURVEY CERTIFIED BY G. NELSON CLARK MD. REG. PROFESSIONAL ENGINEER No. 7139 9-20-85

These plans have been reviewed for the Howard Soil Conservation District and meet the technical requirements for small pond construction, soil erosion and sediment control.

Approved: *R. Ziebau* Date 12-20-79  
 U.S. Soil Conservation Service

**POND CONSTRUCTION SPECIFICATIONS:**

- I. SITE PREPARATION:**  
 Areas under the embankment and any structural works shall be cleared, grubbed and topsoil stripped to remove all trees, vegetation, roots, or other objectionable material. In order to facilitate abatement and restoration, it is recommended that the pool area be cleared of all brush and trees.
- II. EARTH FILL AND STRUCTURAL BACKFILL:**  
 Construction of earth fill and structural backfill shall be in accordance with applicable sections of the Howard County Road Construction Code and Standard Specifications.
- III. CONCRETE:**  
 Concrete shall meet minimum requirements set forth in Maryland State Roads Commission Specifications for Materials, Highways, Bridges, and incidental Structures, Article 20.07 (Portland Cement Concrete Mixtures).
- IV. STABILIZATION:**  
 All exposed surfaces of the embankment, spillway and borrow areas shall be stabilized by seeding and straw mulch in accordance with "Standards and Specifications for Soil Erosion and Sediment Control in Developing Areas" immediately after finishing. All borrow areas shall be graded to provide proper drainage and left in a slightly condition. All slopes exceeding 3:1 shall be stabilized with Crown Vetch, applied at a rate of .34 lbs/1000 sq ft and in accordance with the above-mentioned standards and specifications.
- V. PIPE CONDUITS:**  
 All materials and construction shall be in accordance with the Howard County Road Construction Code and Specifications.

**DEVELOPER'S CERTIFICATE**

"I certify that all development and/or construction will be done according to these plans of development, pond construction and erosion and sediment control. I also authorize periodic on-site inspection by the Howard Soil Conservation District or their authorized agents, as are deemed necessary. Deviation from this plan will not be made unless authorized by The Howard Soil Conservation District. I will provide the Howard Soil Conservation District with a red-lined "as built" of the pond within 30 days of completion."

Signature of Developer: *Sigita Zubkus*  
 Date: 12-3-79

**ENGINEER'S CERTIFICATE**

"I certify that this plan for pond construction, erosion, and sediment control represents a practical and workable plan based on my personal knowledge of the site conditions. This plan was prepared in accordance with the requirements of the Howard Soil Conservation District. I have notified the developer that he must provide the Howard Soil Conservation District with a red-lined "as built" of the pond within 30 days of completion."

Signature of Engineer: *G. Nelson Clark*  
 Date: 6-21-79

APPROVED: Department of Public Works  
*W. E. Hest* 7-6-80  
 Chief, Bureau of Engineering

APPROVED: Howard County Office of Planning & Zoning  
*John W. Marshall* 2-5-80  
 Chief, Division of Land Development

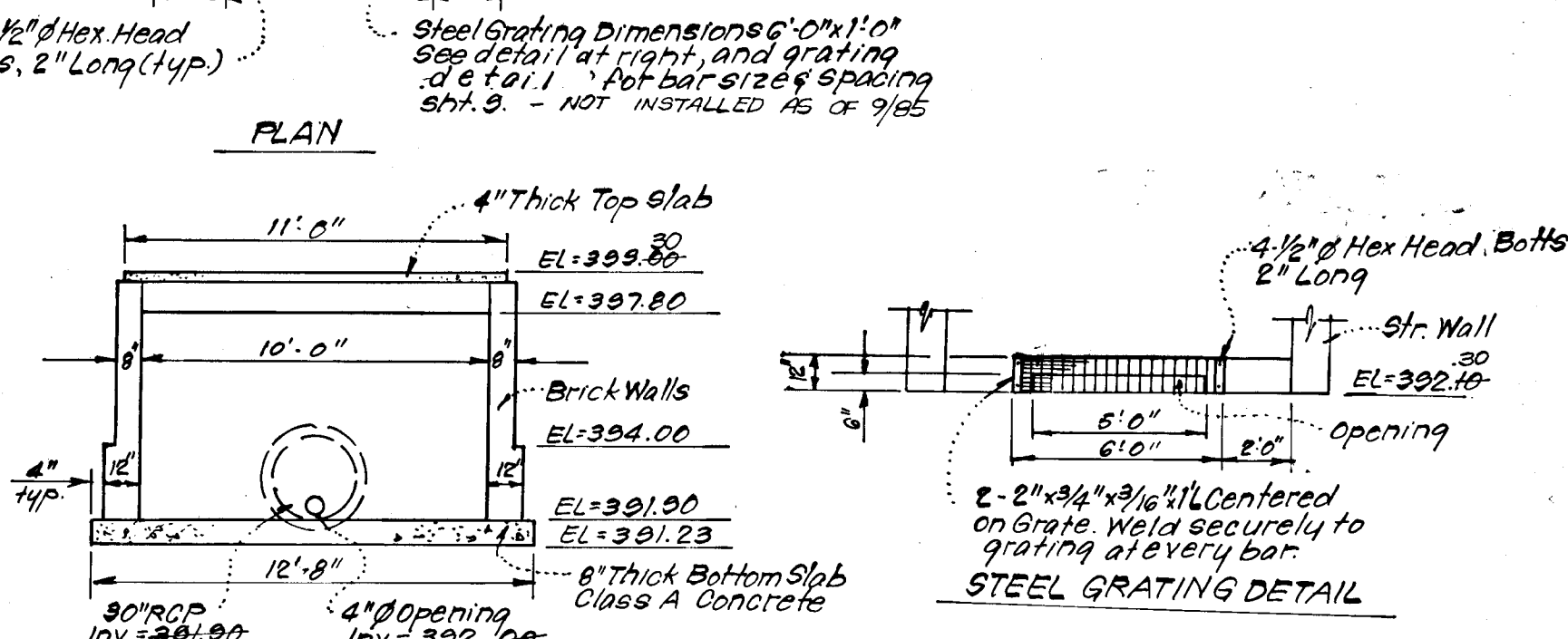
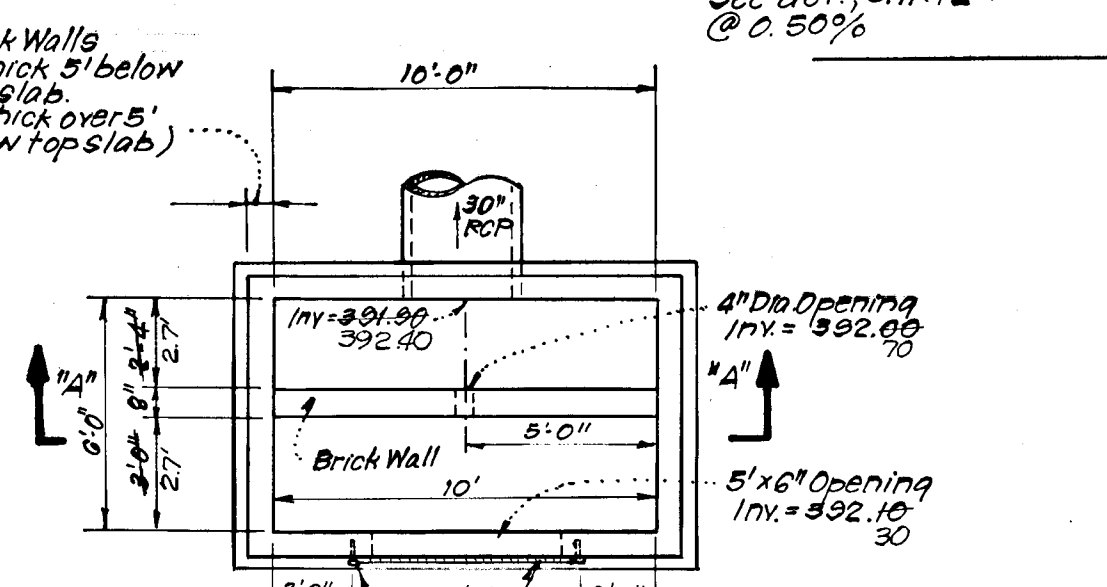
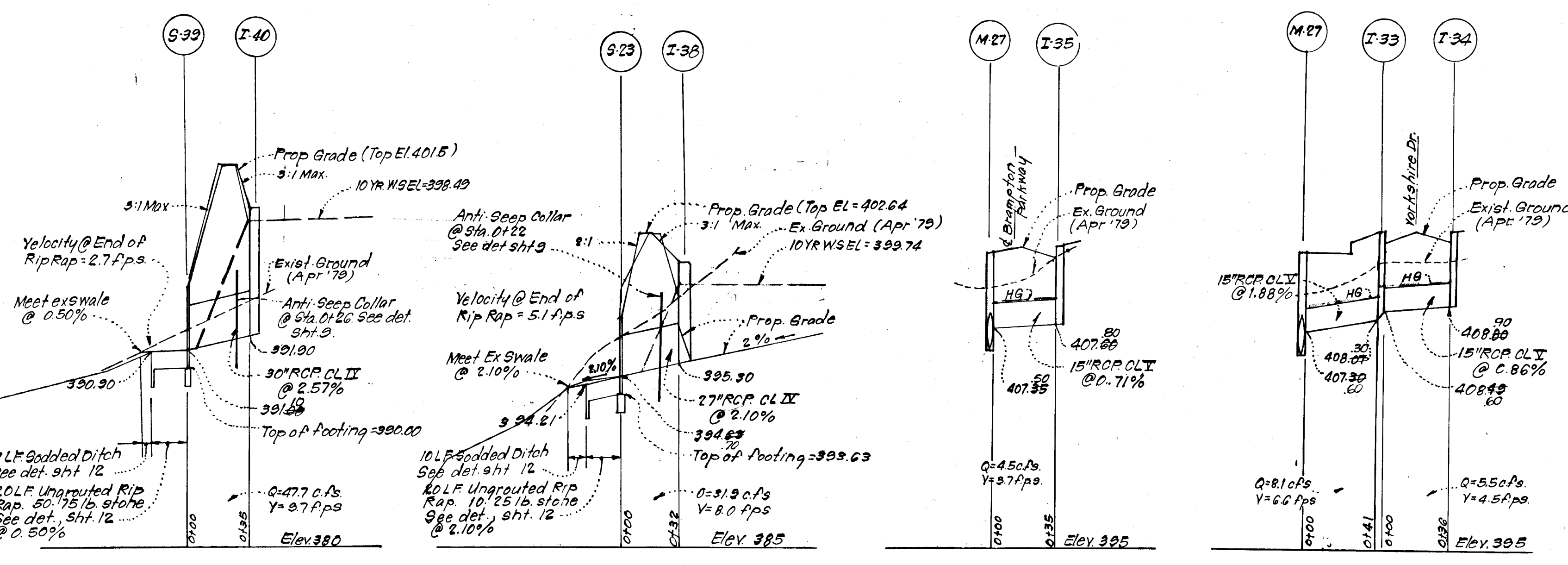
**CLARK • FINEFROCK & SACKETT**  
 ENGINEERS • PLANNERS • SURVEYORS  
 11315 LOCKWOOD DRIVE SILVER SPRING, MARYLAND 20904 (301) 593-3400

DESIGNED	U.L.S.	SCALE	1"=50'
DRAWN	K.I.W.	DRAWING	3 of 14
CHECKED	R.U.S.	JOB NO.	77-920
DATE	Apr, 1979	FILE NO.	77-920-D

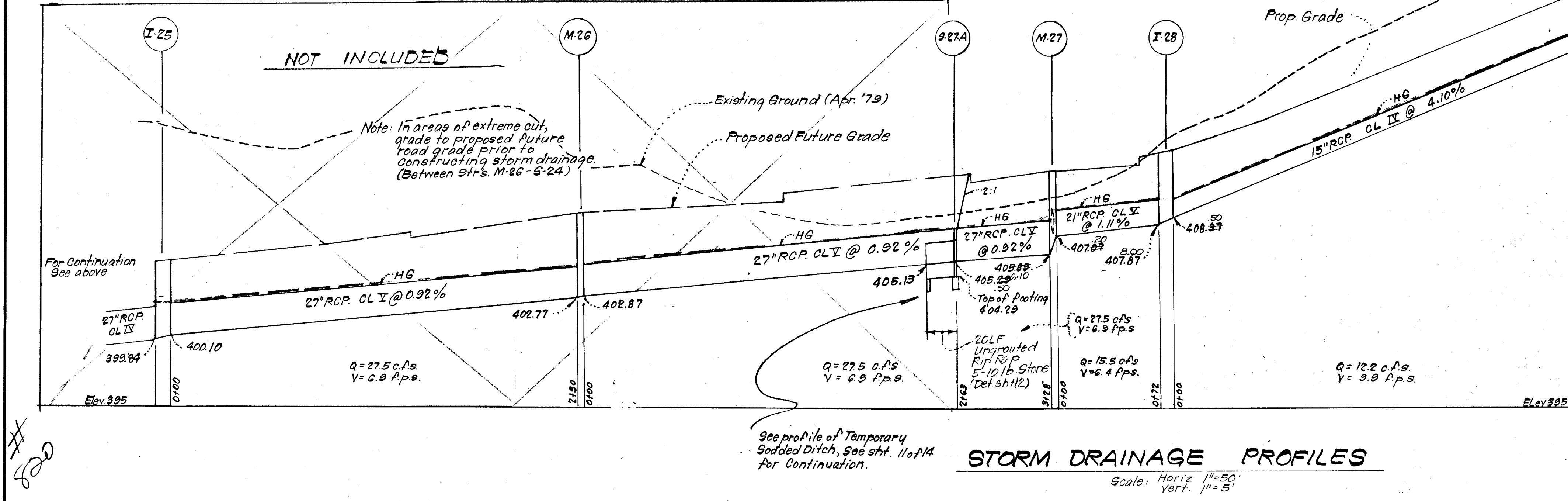
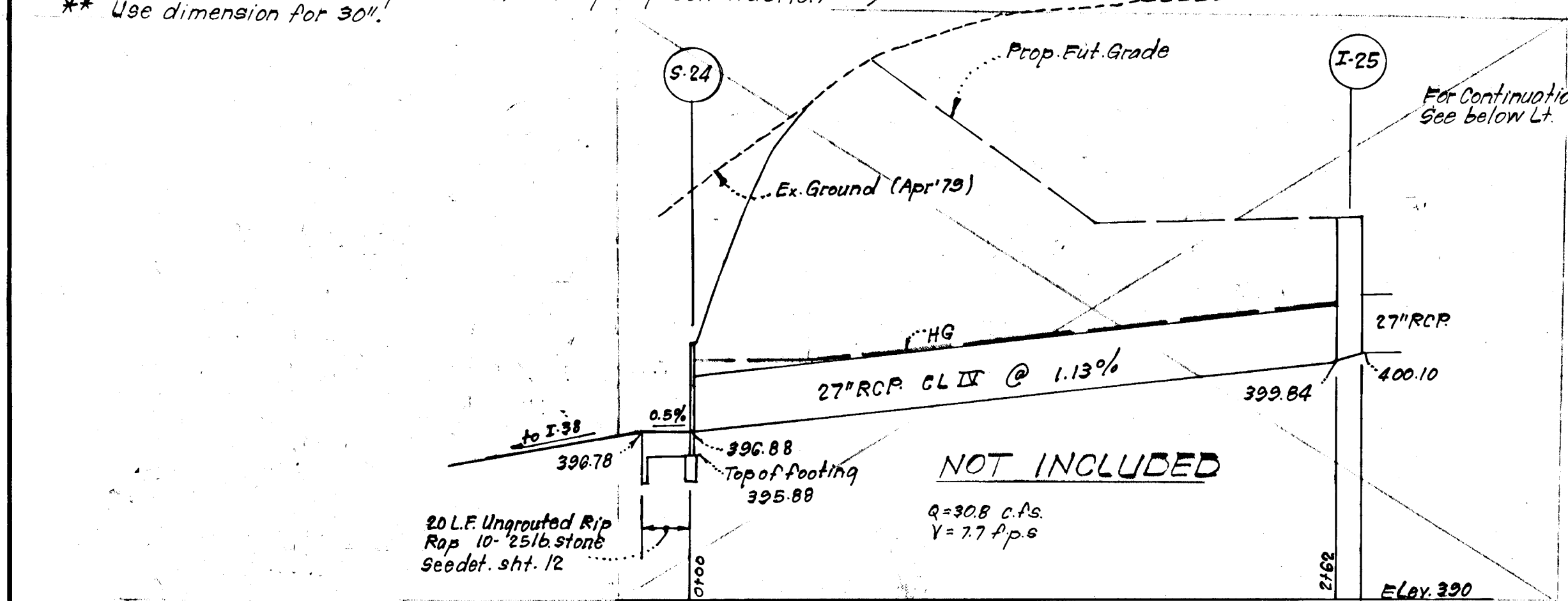
**ROAD CONSTRUCTION PLANS**  
**STORM WATER MANAGEMENT PLAN**  
**BRAMPTON HILLS**  
 SECTION 1 AREA 1  
 2ND ELECTION DISTRICT  
 HOWARD COUNTY, MARYLAND  
 FOR: CELTA CORPORATION  
 10325 Lloyd Road  
 Potomac, Md 20854

STRUCTURE SCHEDULE							
NO	TYPE	INV. IN	INV. OUT	TOP ELEVATION		REMARKS	LOCATION
				Upper	Lower		
* I-1	C-Endwall	385.06	385.06			How. Co. Std. Fig. 5.21 Dia=30"	See Plan
I-2	A-10 Inlet	382.66	382.16	396.20		Fig. 4.02 W=2'6"	Q Inlet 19136.36 1733' LT
I-3	A-10 Inlet	387.40	387.14	396.20		Fig. 4.02 W=2'6"	Q Inlet 19136.36 1733' RT
M-4	B- Manhole	389.06	389.40	396.67		Fig. 3.03 48" Sq.	Q Str. 181.09 20' RT
I-5	A-10 Inlet	389.06	389.86	400.77	400.49	Fig. 4.01 W=2'6"	Q Str. 181.09 1733' RT
M-6	B- Manhole	393.54	393.70	401.81	406.84	Fig. 3.03 48" Sq.	Q Str. 181.98 19' RT
I-7	A-5 Inlet	404.42	403.45	408.42	408.48	Fig. 4.01 W=2'6"	Q Inlet 0156.38 1533' RT
I-8	A-10 Inlet	404.86	408.36	408.47		Fig. 4.02 W=2'6"	Q Inlet 0152.53 1533' LT
I-9	A-10 Inlet	407.68	412.11	411.51		Fig. 4.01 W=2'6"	Q Inlet 13120.09 1733' RT
I-10	A-5 Inlet	404.94	403.98	408.81	408.45	Fig. 4.01 W=2'6"	Q Inlet 0151.66 1533' LT
I-11	A-10 Inlet	405.07	409.28	408.57		Fig. 4.02 W=2'6"	Q Inlet 0160.27 1533' RT
I-12	A-10 Inlet	396.50	400.77	400.49		Fig. 4.02 W=2'6"	Q Inlet 16110 1733' LT
I-13	A-10 Inlet	392.25	391.51	397.11	397.00	Fig. 4.02 W=2'6"	Q Inlet 22128.05 1533' RT
I-14	A-10 Inlet	395.11	394.43	400.55	400.22	Fig. 4.02 W=2'6"	Q Inlet 2115.50 1533' RT
I-15	A-10 Inlet	395.11	394.43	400.55	400.22	Fig. 4.02 W=2'6"	Q Inlet 2115.50 1533' LT
I-16	C-Endwall	414.87	414.87			Fig. 5.21 Dia=36"	Q Wall & Q C/I
I-17	A-10 Inlet	415.20	415.20	422.65	422.65	Fig. 4.02 W=2'6"	Q Inlet 0135.34 1733' LT
I-18	A-10 Inlet	415.20	415.20	422.65	422.65	Fig. 4.02 W=2'6"	Q Inlet 0135.34 1733' RT
I-19	C-Endwall	415.75	415.75			Fig. 5.21 Dia=36"	See Plan
I-20	A-10 Inlet w/Deflectors	422.54	422.54	426.55	426.22	Fig. 4.02 W=2'6"	Q Inlet 0156.35 1533' LT
I-21	C-Endwall	400.50	400.50			Fig. 5.21 Dia=15"	See Plan
I-22	A-10 Inlet	418.30	418.30			Fig. 4.02 W=2'6"	Q Inlet 13243 (L.C.P)
I-23	C-Endwall	394.63	394.63			Fig. 5.21 Dia=27"	Q Str. 23110 118' RT
I-24	C-Endwall	396.88	396.88			Fig. 5.21 Dia=27"	Q Str. 23110 87' RT
I-25	A-10 Inlet	400.10	399.84	405.71	405.60	How. Co. Std. Fig. 4.02 W=3'6"	Q Inlet 20168.76 2133' RT
M-26	B- Manhole	402.87	402.77	408.80		Fig. 3.03 48" Sq.	Q Str. 17105 5' LT
I-27	A-10 Inlet w/Deflectors	408.37	407.87	413.21	412.96	Fig. 4.02 W=2'6"	Q Inlet 13175.81 2133' RT
I-28	A-10 Inlet w/Deflectors	423.16	422.67	426.66	426.22	Fig. 4.02 W=2'6"	Q Inlet 10110 2133' RT
I-30	A-5 Inlet w/Deflectors	435.80	435.53	439.94	439.05	Fig. 4.01 W=2'6"	Q Inlet 0170.50 1533' RT
I-31	A-10 Inlet w/Deflectors	439.10	438.70	443.07	442.67	Fig. 4.02 W=2'6"	Q Inlet 0170.50 1533' LT
I-32	A-5 Inlet w/Deflectors	442.10	441.83	445.41	445.1	Fig. 4.01 W=2'6"	Q Inlet 0170.50 1733' RT
I-33	A-10 Inlet	408.49	408.07	413.17	412.79	Fig. 4.02 W=2'6"	Q Inlet 14135 2133' LT
I-34	A-10 Inlet w/Deflectors	408.80	413.17	412.79		Fig. 4.02 W=2'6"	Q Inlet 0170.50 1733' RT
I-35	A-10 Inlet	407.60	412.05	411.94		Fig. 4.02 W=2'6"	Q Inlet 14135 2133' LT
I-38	Special	395.30	395.30	401.00		See det. sht. 9	Q Inlet 23164 134' RT
I-39	C-Endwall	391.00	391.00			How. Co. Std. Fig. 5.21 Dia=30"	Q Inlet 23198 392' RT
I-40	Special	392.10	391.90	399.00		See det. this sht. (Mod. A-10 Inlet)	Q Inlet 23170 305' RT
I-41	Struct. Support Wall	405.22	405.22			How. Co. Const. Code Fig. 101, Dry 46"	See Plan

PIPE SCHEDULE			
SIZE	TYPE	CLASS	LENGTH
15"	R.C.P.	Class V	803 LF
15"	R.C.P.	Class IV	794 LF
18"	R.C.P.	Class V	107 LF
21"	R.C.P.	Class V	101 LF
21"	R.C.P.	Class IV	992 LF
36"	R.C.P.	Class IV	95 LF
27"	R.C.P.	Class V	65 LF
27"	R.C.P.	Class IV	152 LF
30"	R.C.P.	Class IV	146 LF



NOT INCLUDED



**DEVELOPER'S CERTIFICATE**

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Signature of Developer: 3/1/85 ZUBKUS Date: 12-3-79

**ENGINEER'S CERTIFICATE**

"I certify that this plan for pond construction, erosion, and sediment control represents a practical and workable plan based on my personal knowledge of the site conditions. This plan was prepared in accordance with the requirements of the Howard Soil Conservation District. I have notified the developer that he must provide the Howard Soil Conservation District with a red-lined "as built" of the pond within 30 days of completion."

Signature of Engineer: G. Nelson Clark Date: 6-21-79



REVISION BLOCK		Date
No. 1	Revised Pipe & Structure Schedule on Storm Drainage affected by revision of street grades	5/14/80

APPROVED: Department of Public Works

Signature: [Signature] Date: 2-6-80  
Chief, Bureau of Engineering

APPROVED: Howard County Office of Planning & Zoning

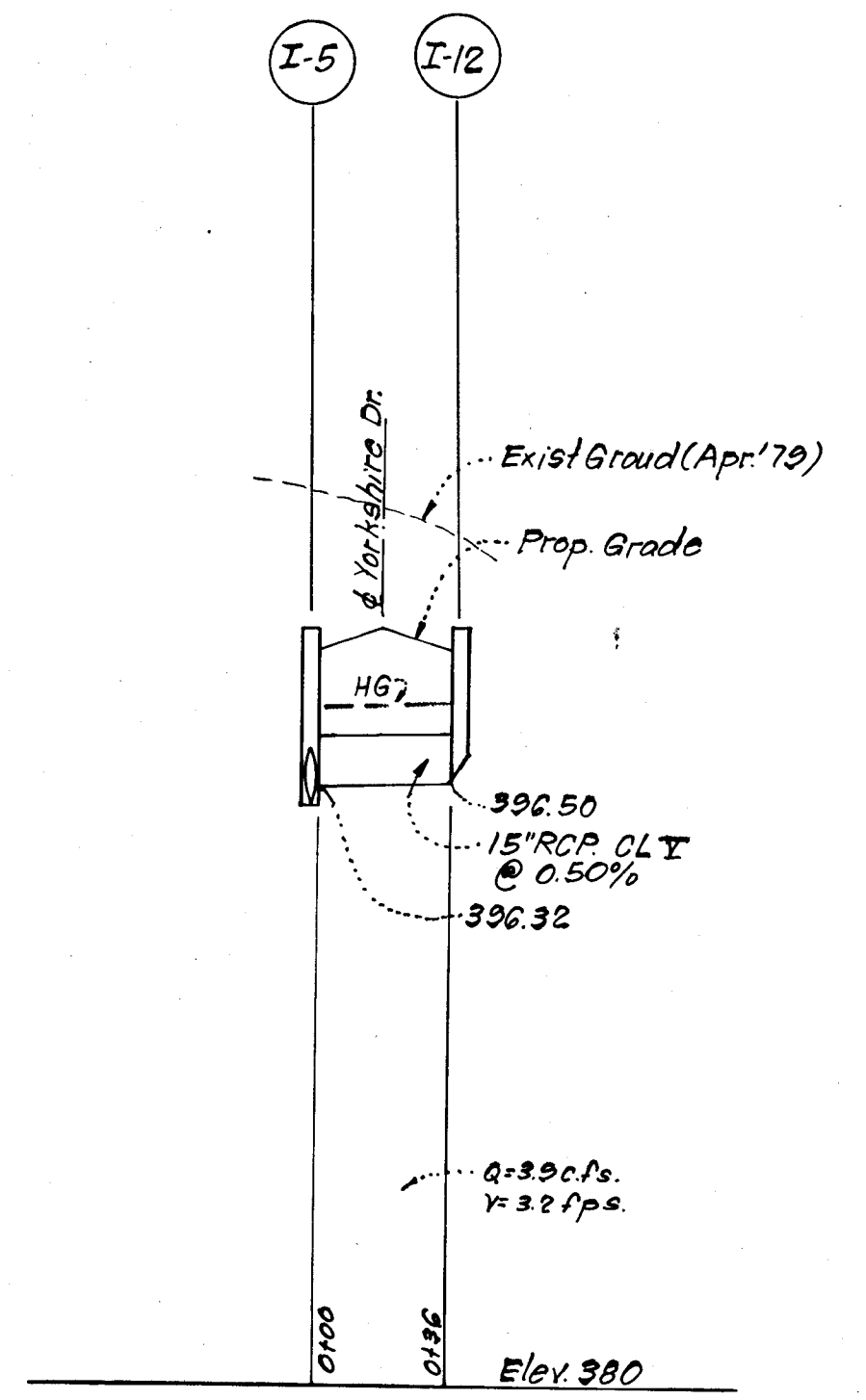
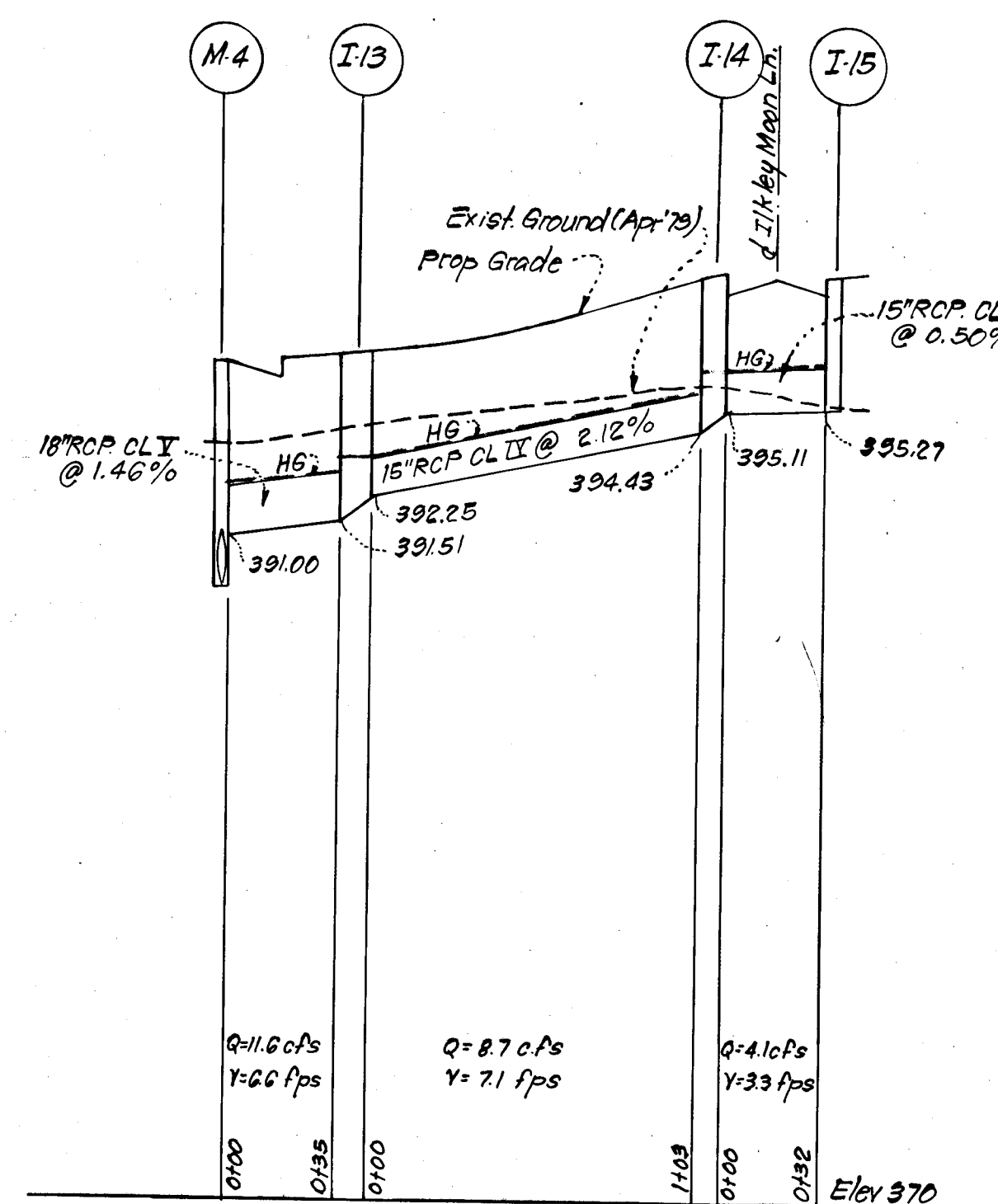
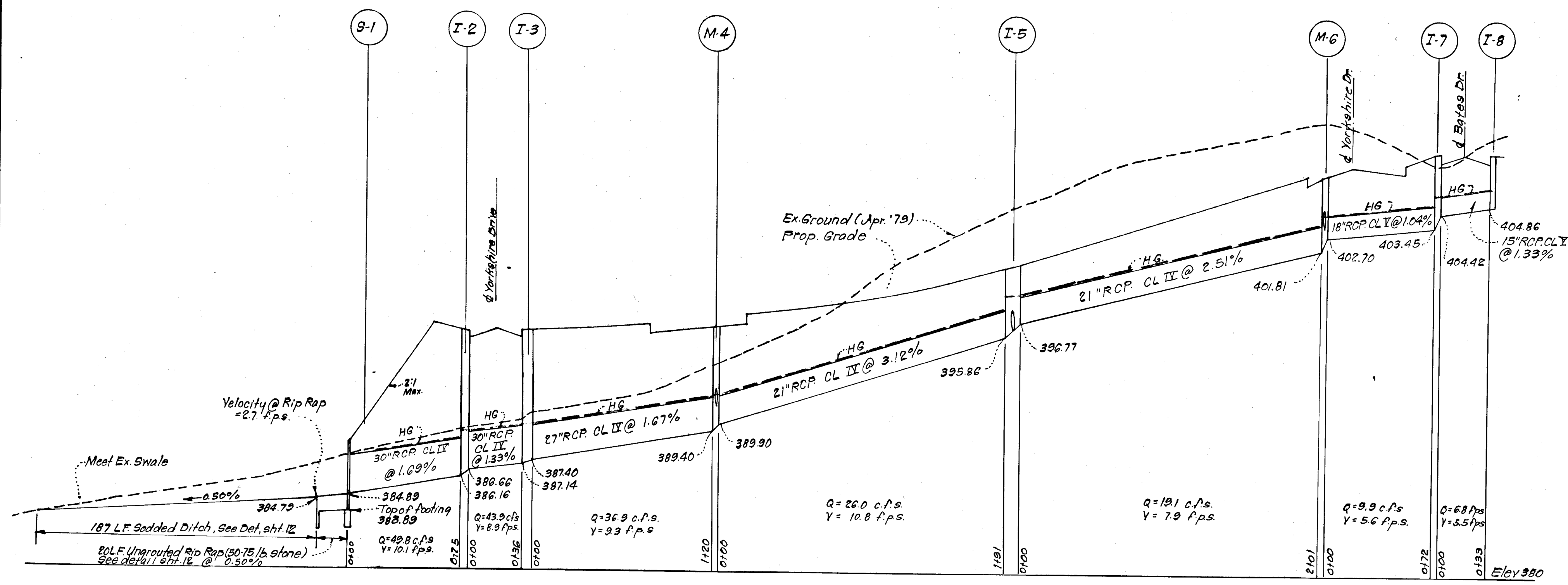
Signature: [Signature] Date: 2-5-80  
Chief, Division of Land Development

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

DESIGNED: J.L.S.	ROAD CONSTRUCTION PLANS	SCALE: As Shown
DRAWN: J.L.S.	STORM DRAINAGE PROFILES	DRAWING: 10 of 14
CHECKED: J.L.S.	<b>BRAMPTON HILLS</b>	JOB NO.: 77-920
DATE: Apr, 1979	SECTION 1 AREA 1 2ND ELECTION DISTRICT HOWARD COUNTY, MARYLAND	FILE NO.: 77-920-D

FOR: CELTA CORPORATION  
10525 Loyd Road  
Potomac, Md 20854

REVISION BLOCK		
No.	Description	Date
1.	Revised Storm Drainage Profiles on Storm Drainage affected by revision of street grades	5/14/80

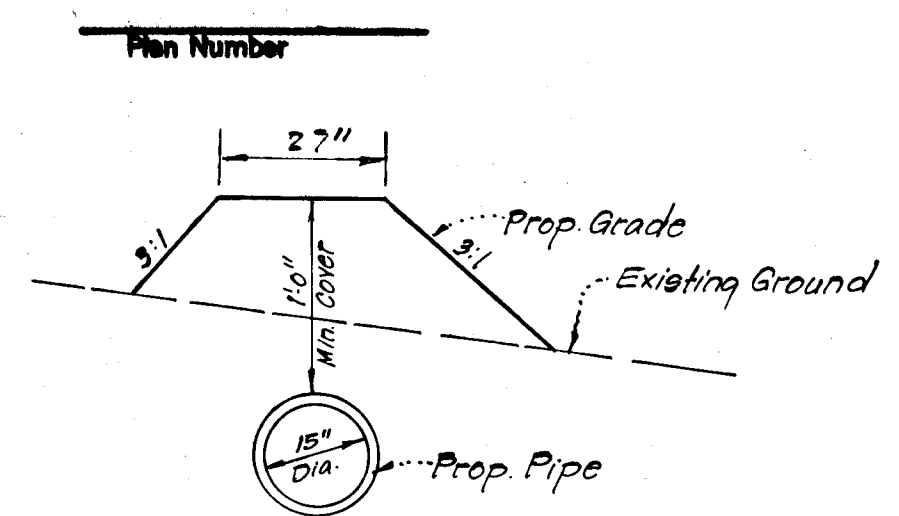
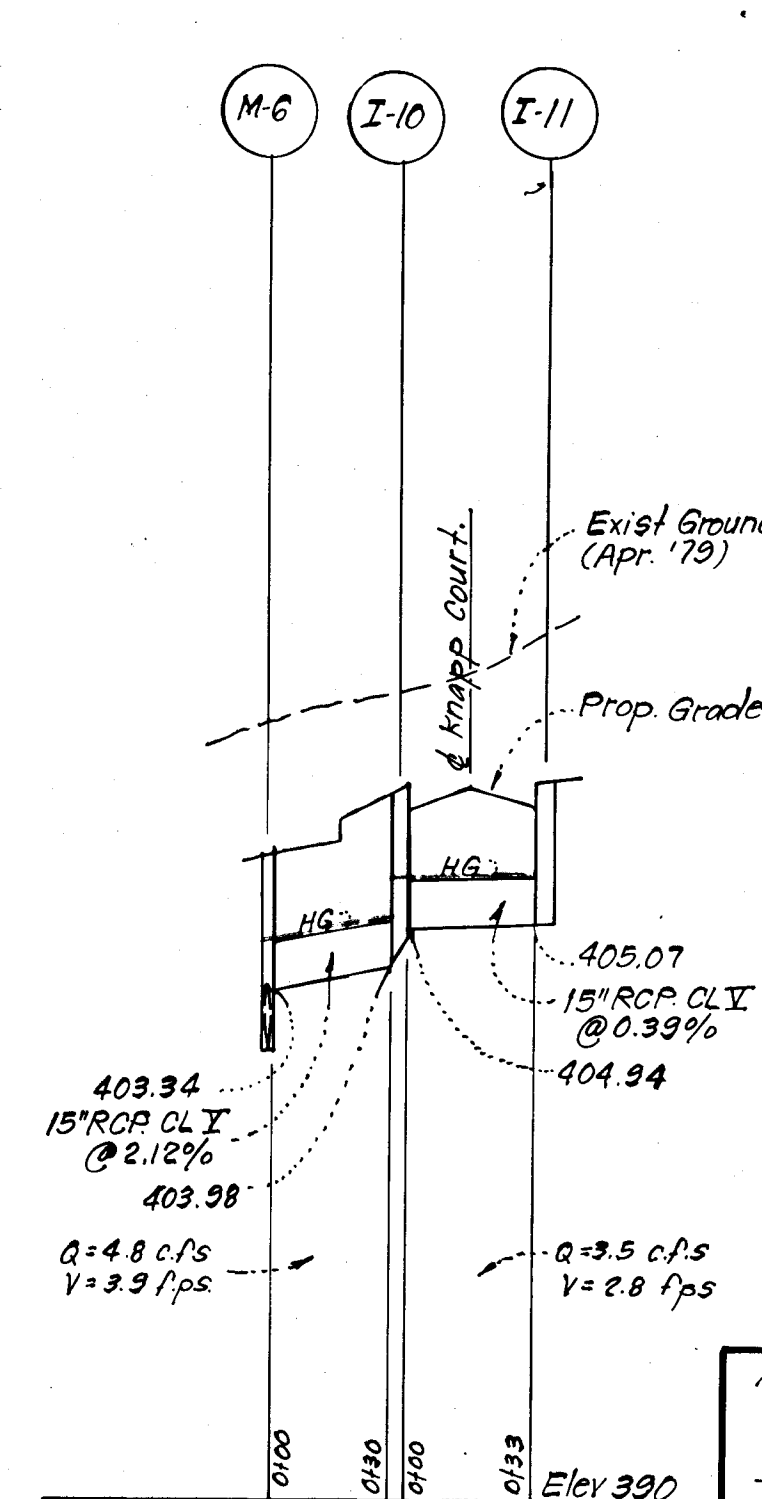
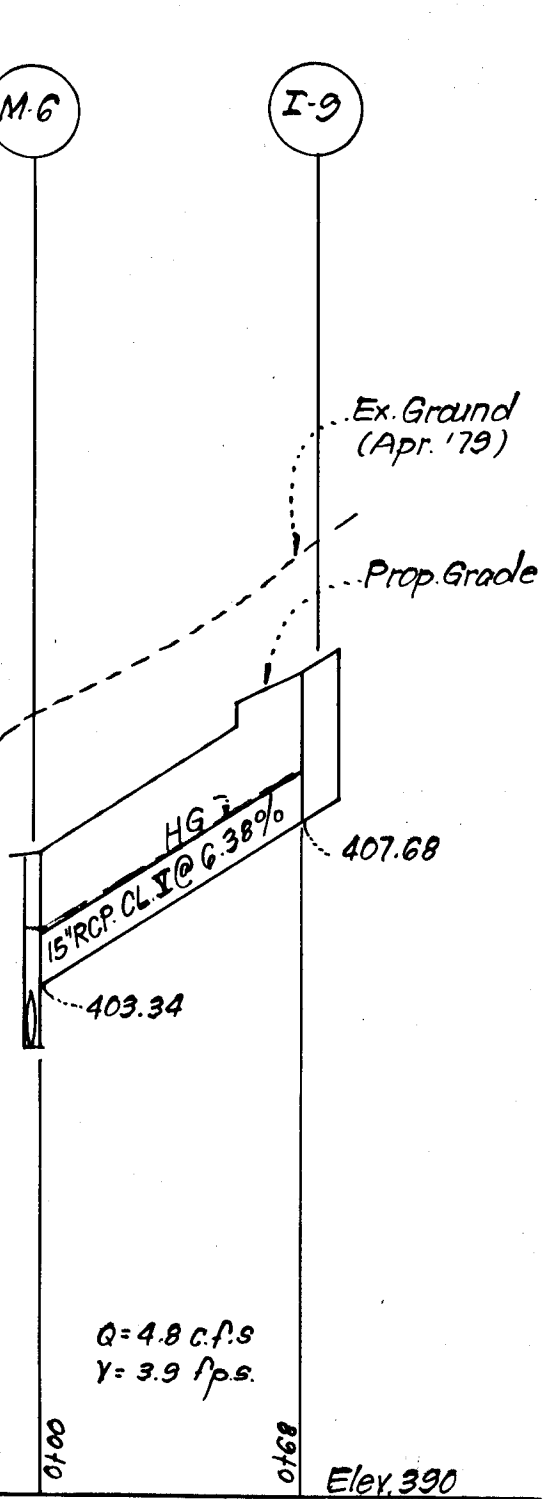
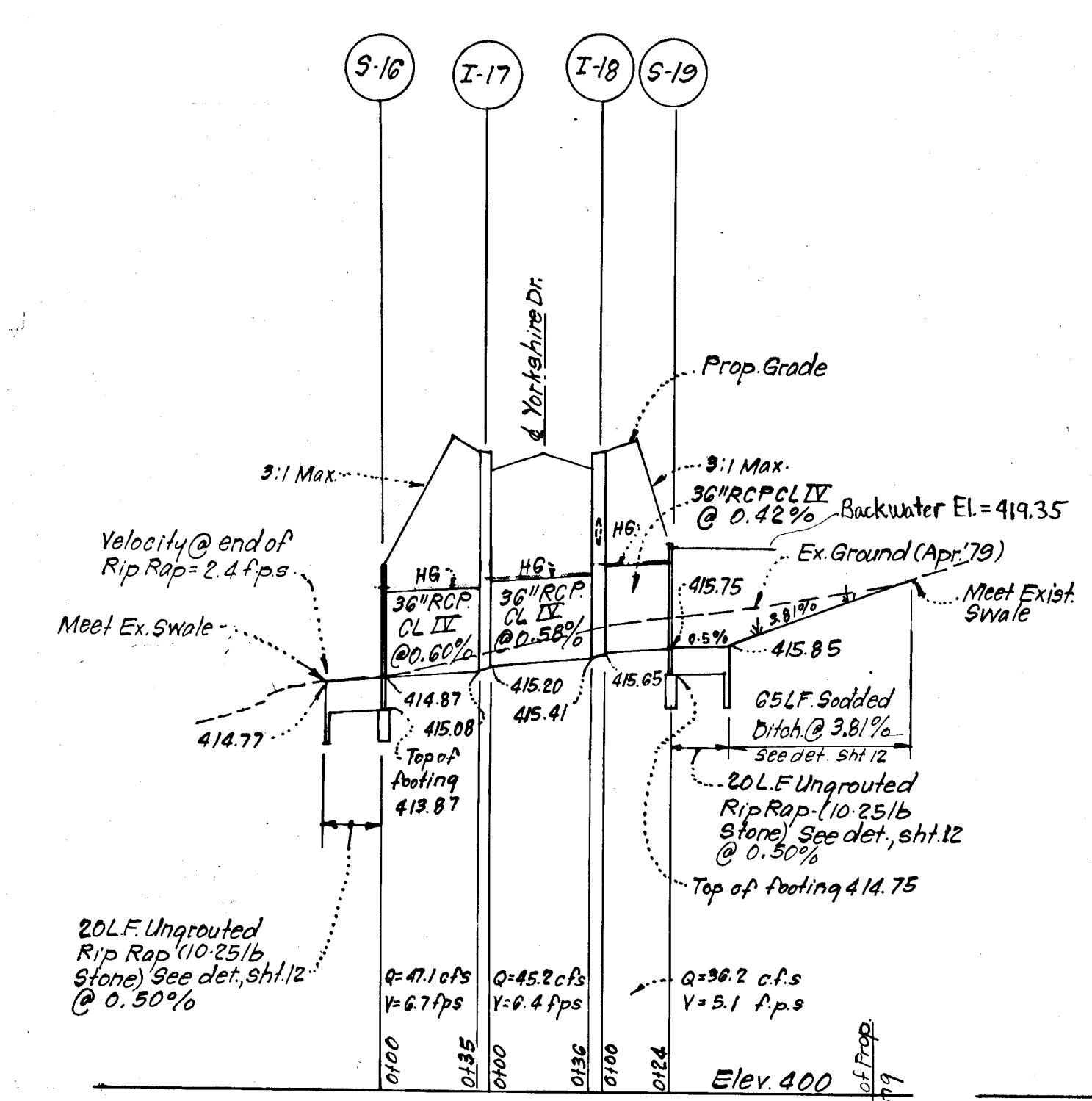
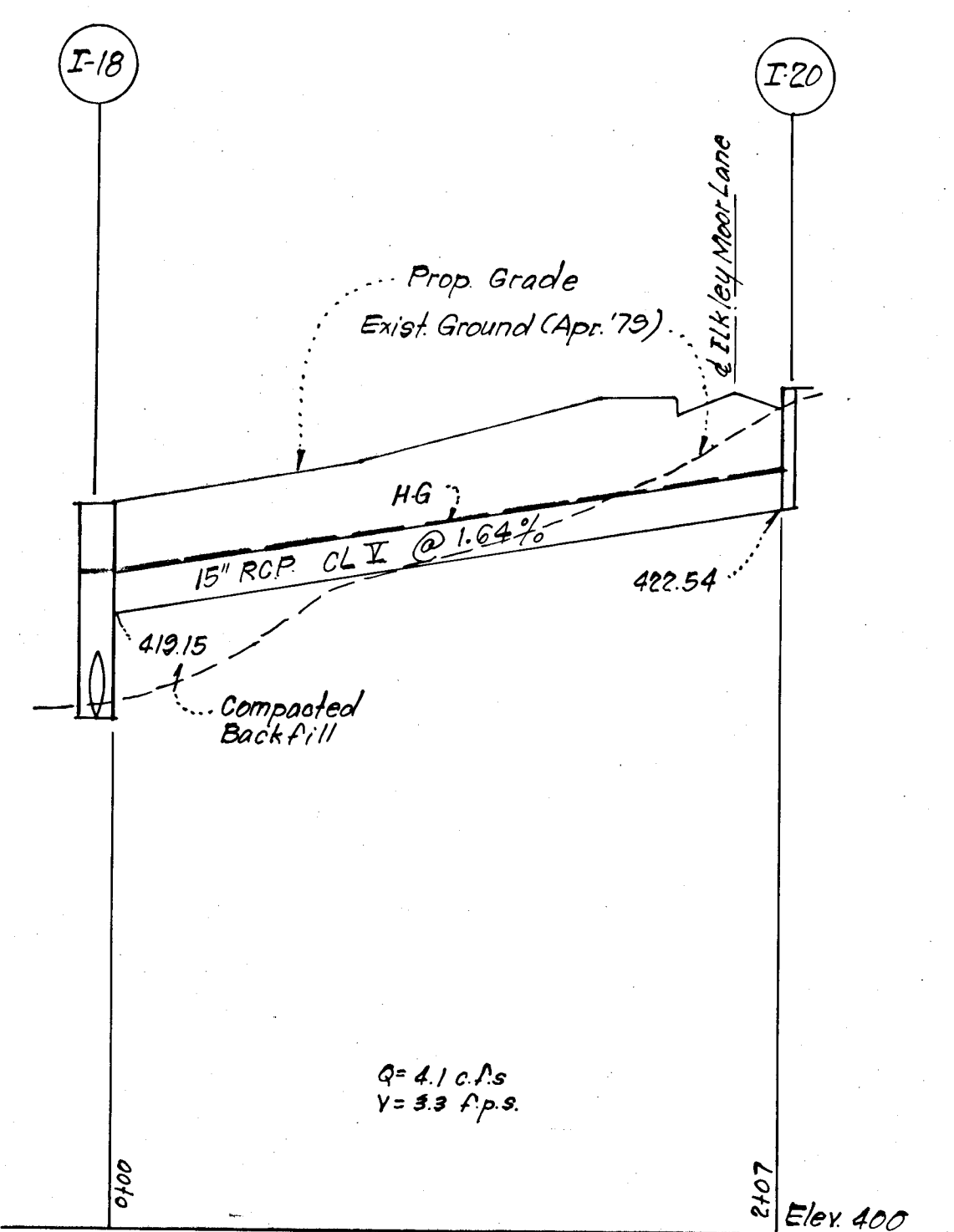
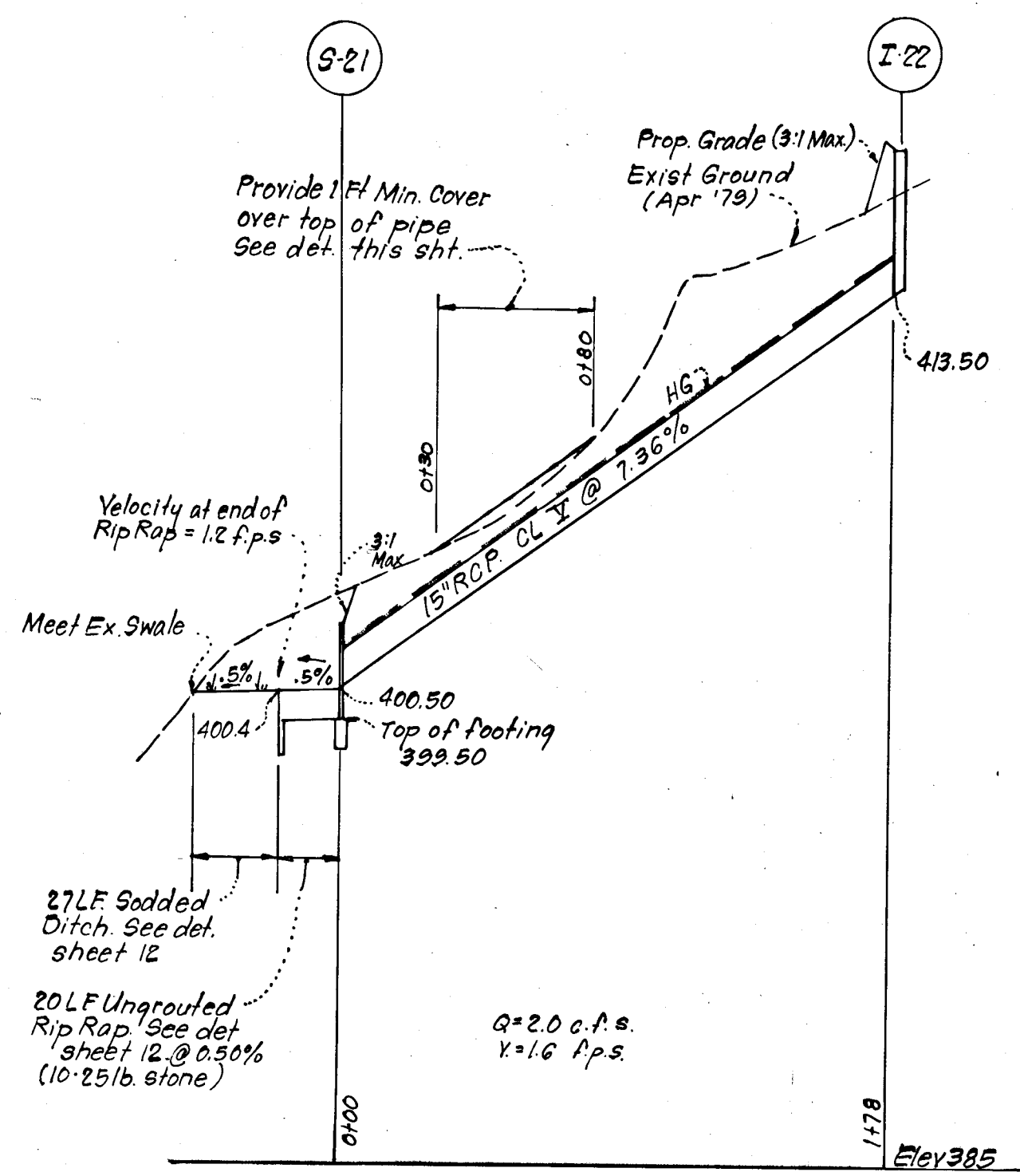


These plans have been reviewed for the Howard Soil Conservation District and meet the technical requirements for small pond construction, soil erosion and sediment control.

These plans for small pond construction, soil erosion and sediment control meet the requirements of the Howard Soil Conservation District.

U.S. Soil Conservation Service Date

Approved: *Robert J. Zaher* 12/21/79  
Howard S.C.D. Date



MIN. PIPE COVER DETAIL  
STR. S-21 to I-22 (0130-0180)  
No Scale

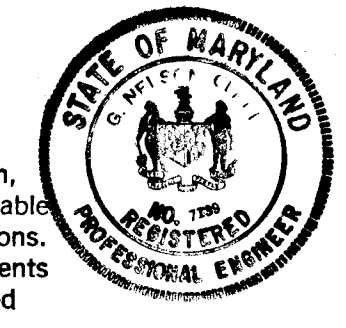
DEVELOPER'S CERTIFICATE

"I certify that all development and/or construction will be done according to these plans of development, pond construction and erosion and sediment control. I also authorize periodic on-site inspection by the Howard Soil Conservation District or their authorized agents, as are deemed necessary. Deviation from this plan will not be made unless authorized by The Howard Soil Conservation District. I will provide the Howard Soil Conservation District with a red-lined "as built" of the pond within 30 days of completion."

Signature of Developer: *Sigfus Zubkub*  
Date: 12-3-79

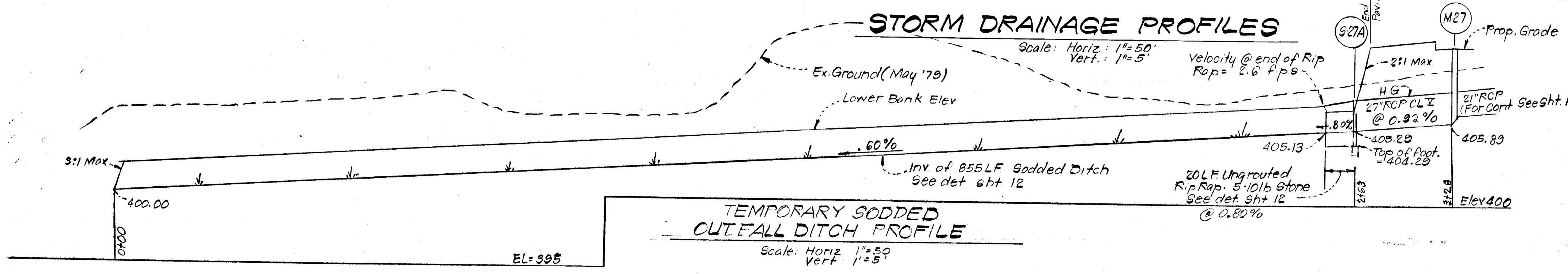
APPROVED: Department of Public Works  
*W. O. P. Albert* 2-6-80  
Chief, Bureau of Engineering Date

APPROVED: Howard County Office of Planning & Zoning  
*John M. ...* 2-5-80  
Chief, Division of Land Development Date



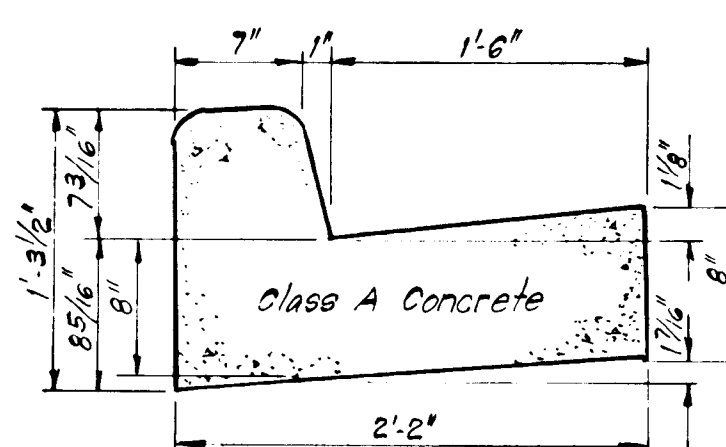
ENGINEER'S CERTIFICATE  
"I certify that this plan for pond construction, erosion, and sediment control represents a practical and workable plan based on my personal knowledge of the site conditions. This plan was prepared in accordance with the requirements of the Howard Soil Conservation District. I have notified the developer that he must provide the Howard Soil Conservation District with a red-lined "as built" of the pond within 30 days of completion."

Signature of Engineer: *G. Nelson Clark*  
Date: 6-21-79



CLARK • FINEROCK & SACKETT ENGINEERS • PLANNERS • SURVEYORS 11315 LOCKWOOD DRIVE • SILVER SPRING, MARYLAND 20904 (301) 583-3400		
DESIGNED J.L.S.	ROAD CONSTRUCTION PLANS STORM DRAINAGE PROFILES BRAMPTON HILLS	SCALE As Shown
DRAWN K.I.W.	SECTION 1 AREA 1 2ND ELECTION DISTRICT HOWARD COUNTY, MARYLAND	DRAWING 11 of 14
CHECKED R.J.S.	FOR: DELTA CORPORATION 10325 Loyd Rd. Potomac, Md 20854	JOB NO. 77-920
DATE Apr, 1979		FILE NO. 77-920-D

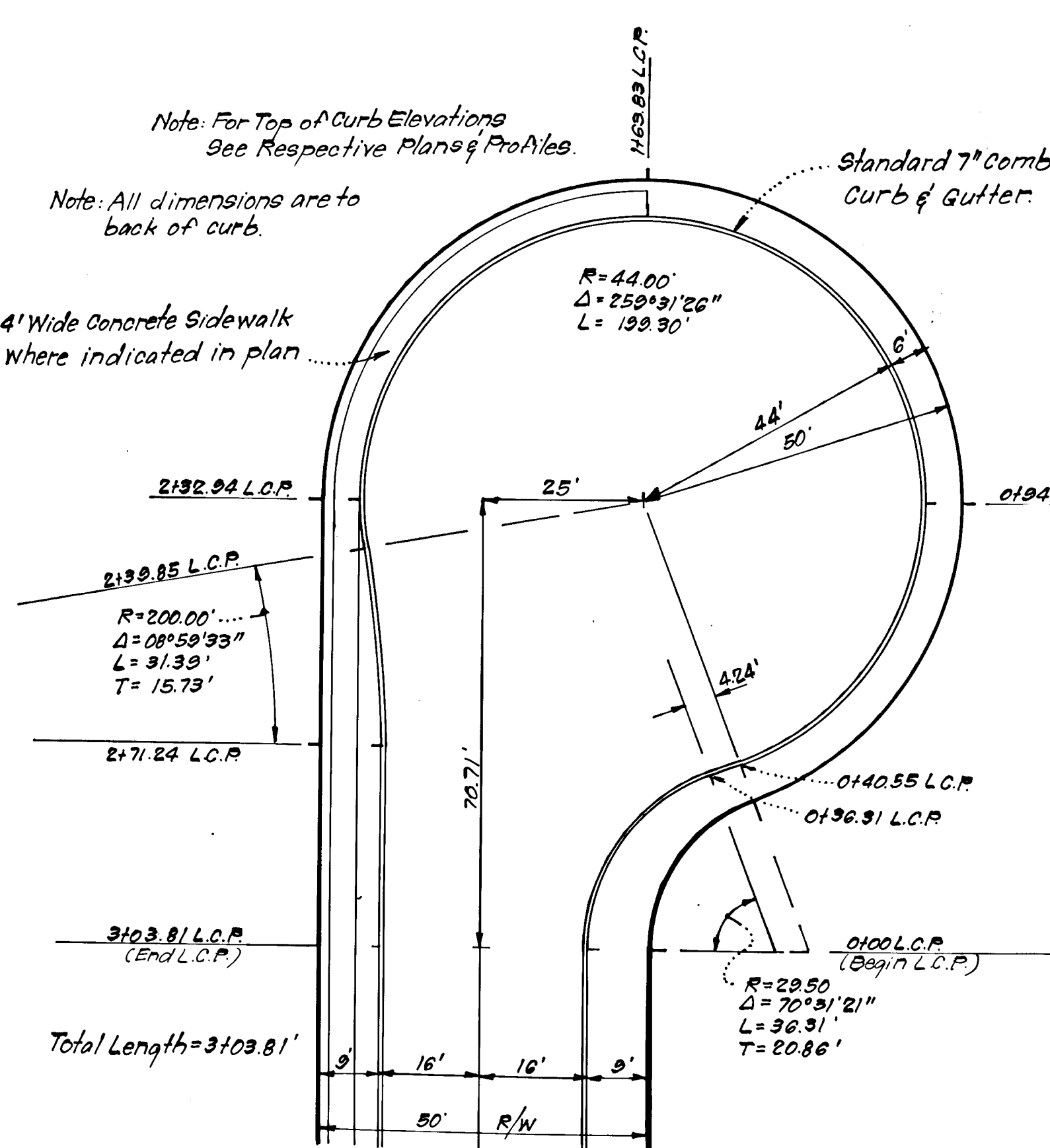
BITUMINOUS CONCRETE SURFACE	1"	Band C-3
BITUMINOUS CONCRETE BINDER	2 1/2"	Band C-2
CRUSHER RUN BASE	7"	



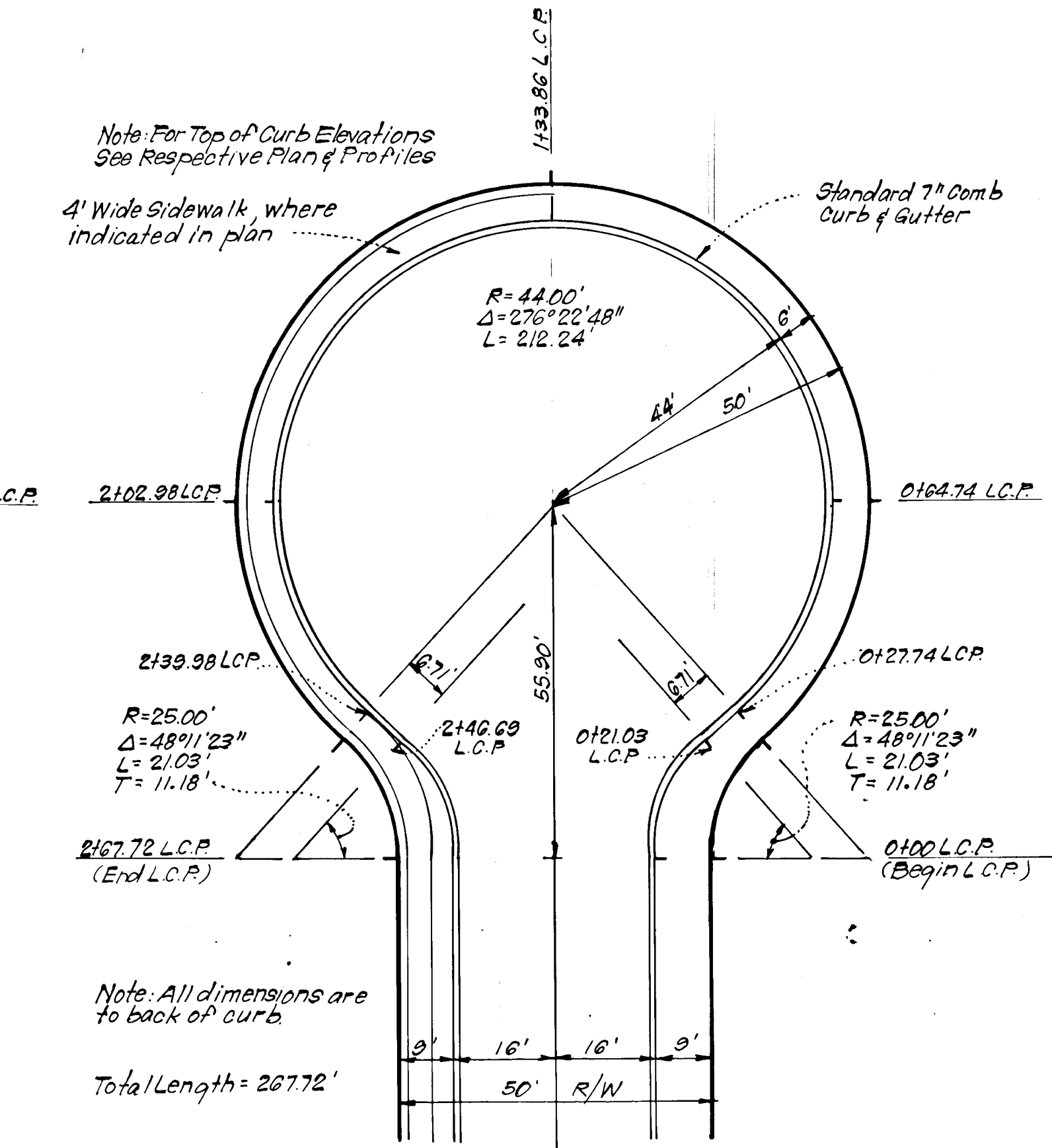
**STANDARD 7" COMBINATION CURB & GUTTER**  
No Scale

**ALTERNATE PAVING SECTION**  
ALL PUBLIC STREETS

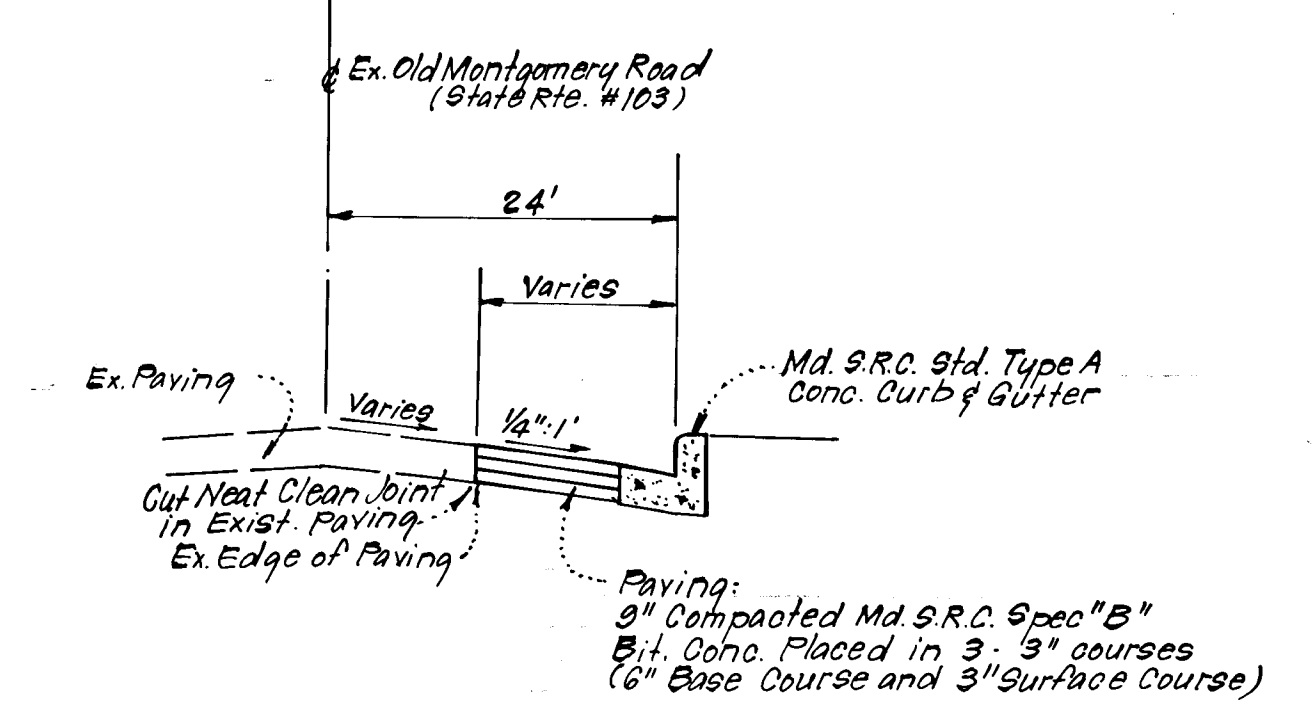
- Cleaning and Grading: Article 0-1
- Subgrade: Article 0-2
- Base Course: Article 0-25
- Binder Course: Article 0-31 or 0-33
- Surface Course: Article 0-31



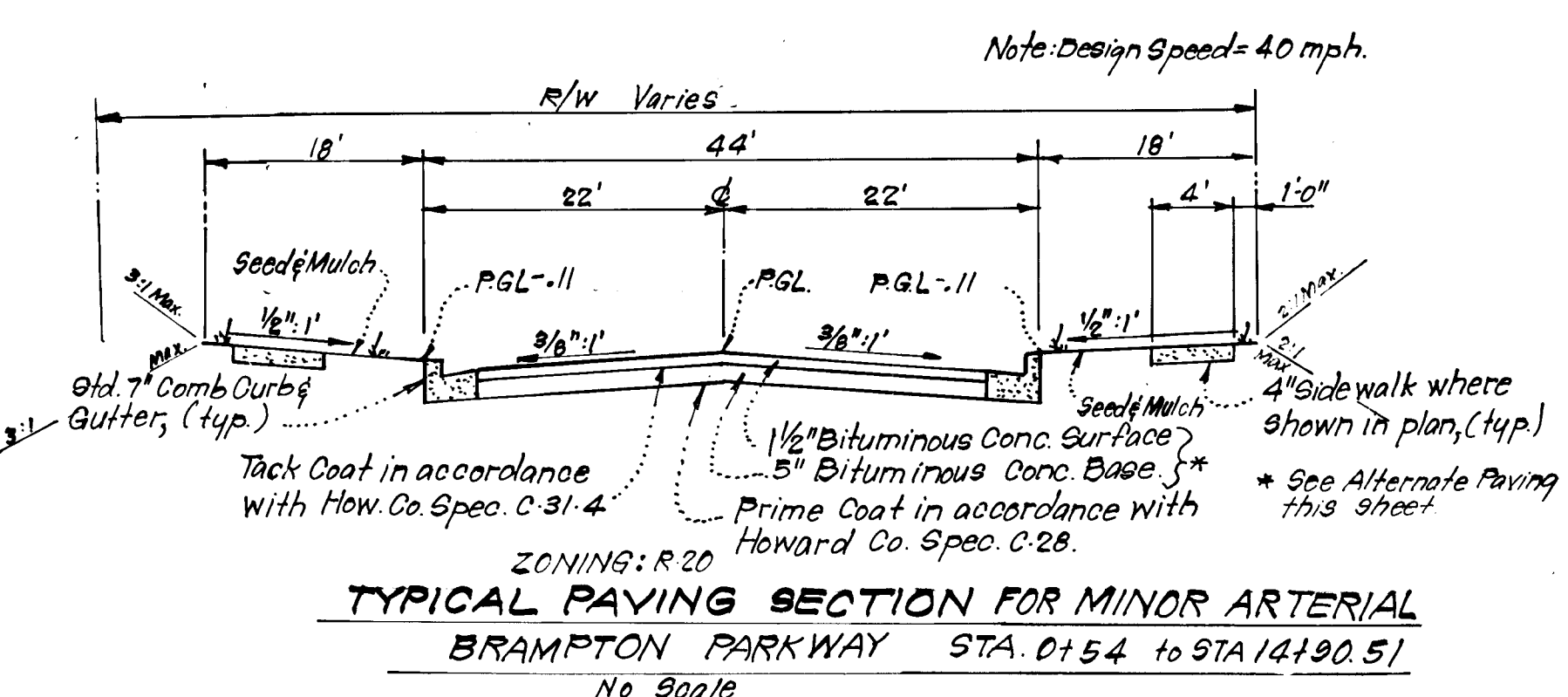
**CUL-DE-SAC DETAIL RIBBLE COURT**  
Scale: 1"=20'



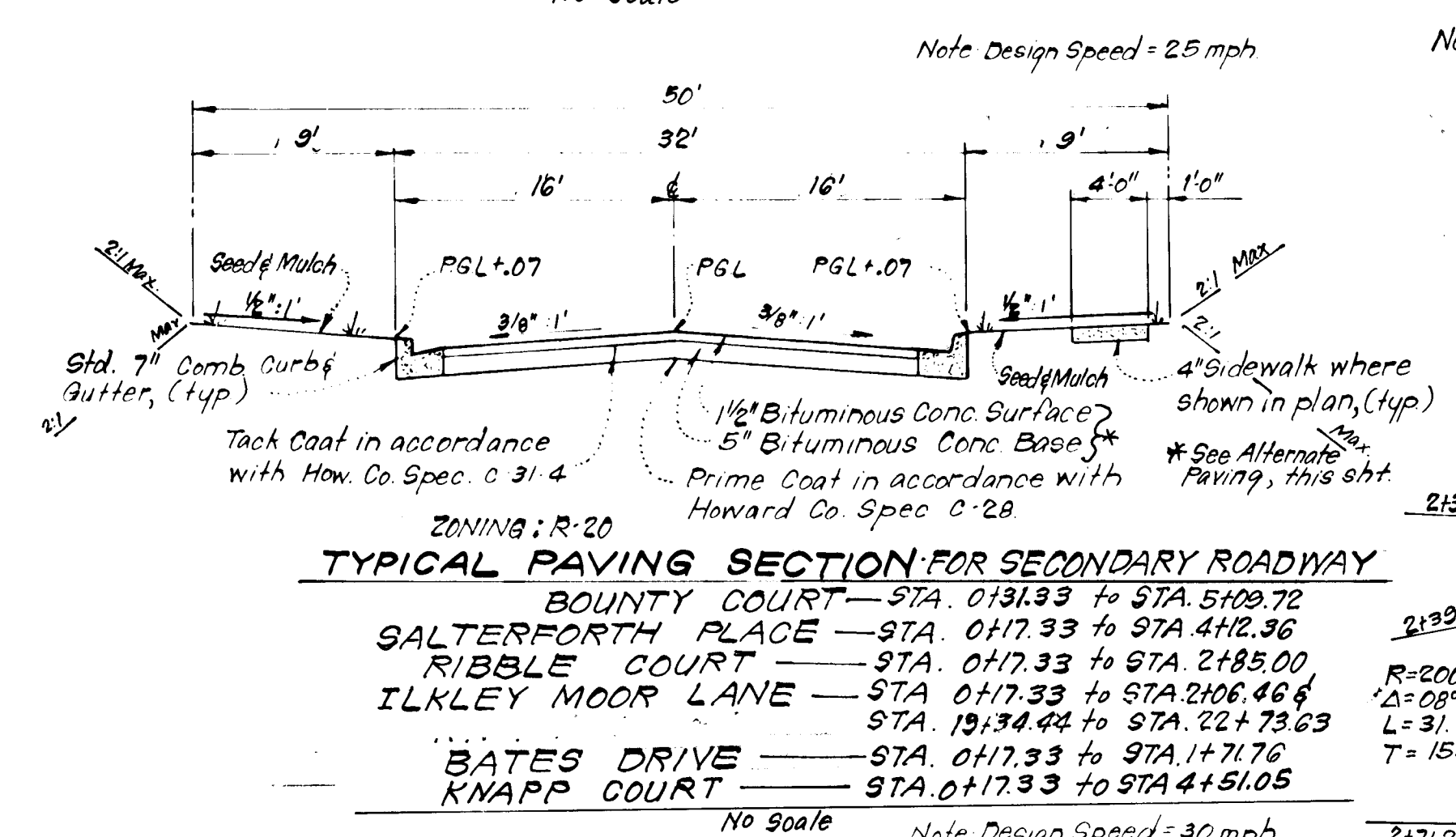
**CUL-DE-SAC DETAIL BOUNTY COURT KNAPP COURT**  
Scale: 1"=20'



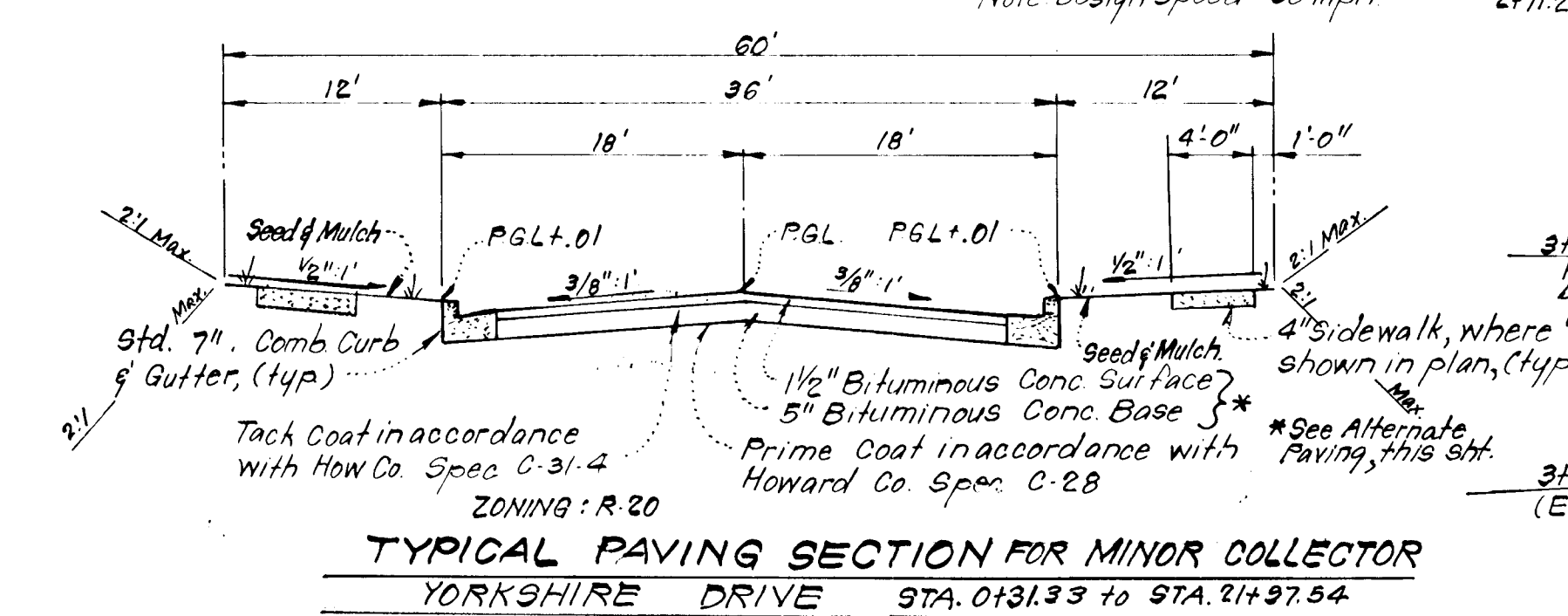
**TYPICAL PAVING SECTION MONTGOMERY ROAD**  
No Scale



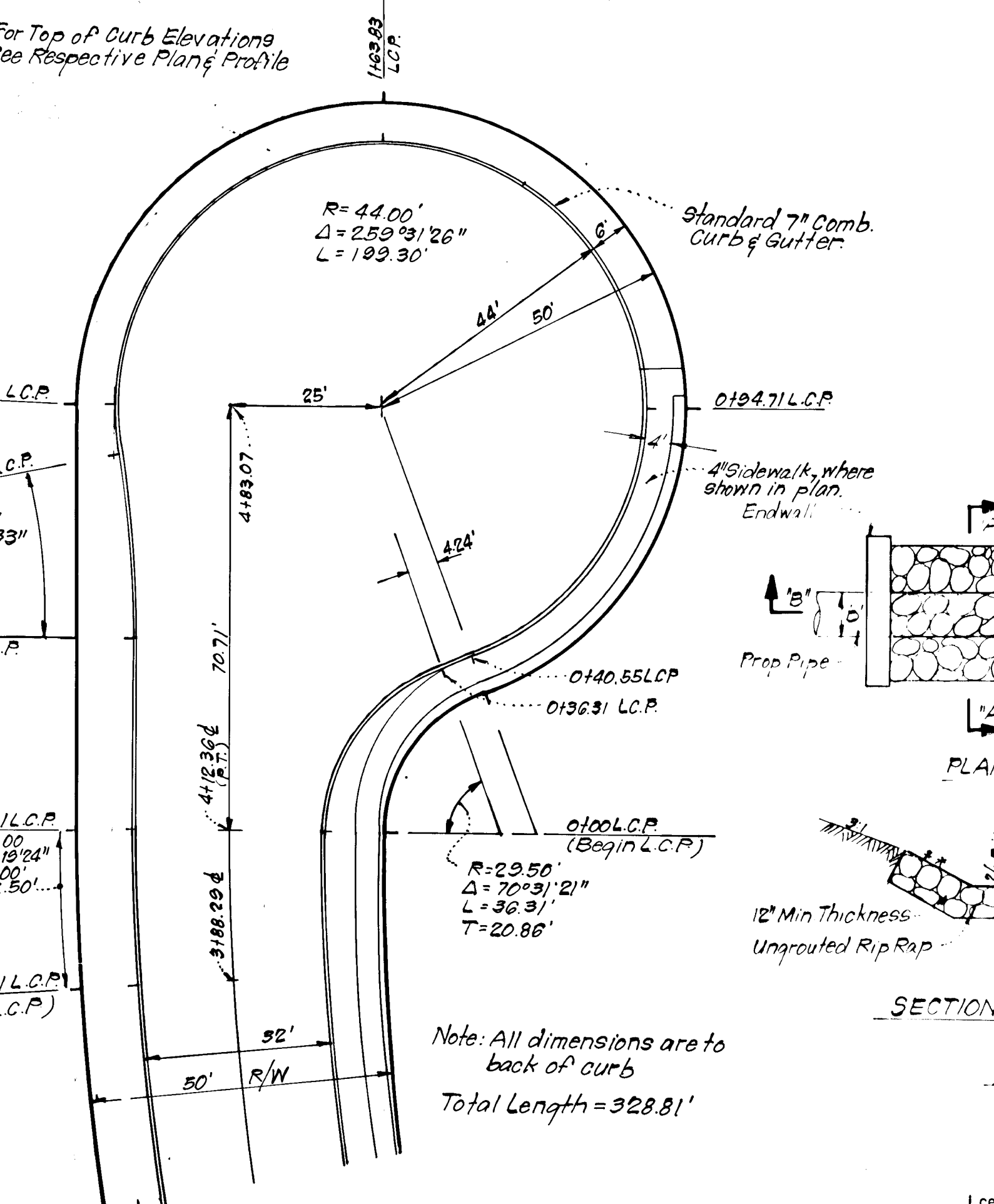
**TYPICAL PAVING SECTION FOR MINOR ARTERIAL BRAMPTON PARKWAY**  
No Scale



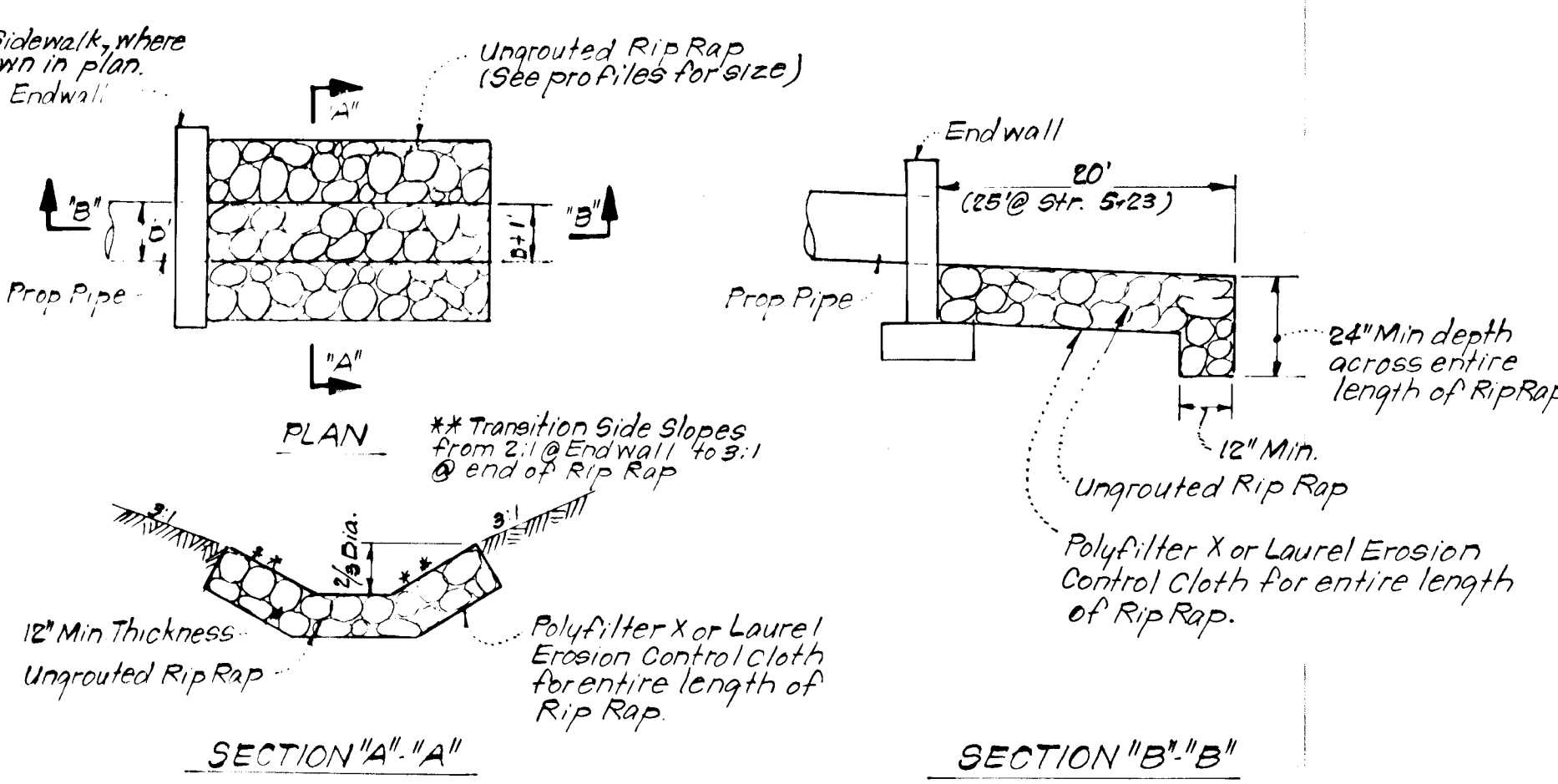
**TYPICAL PAVING SECTION FOR SECONDARY ROADWAY**  
No Scale



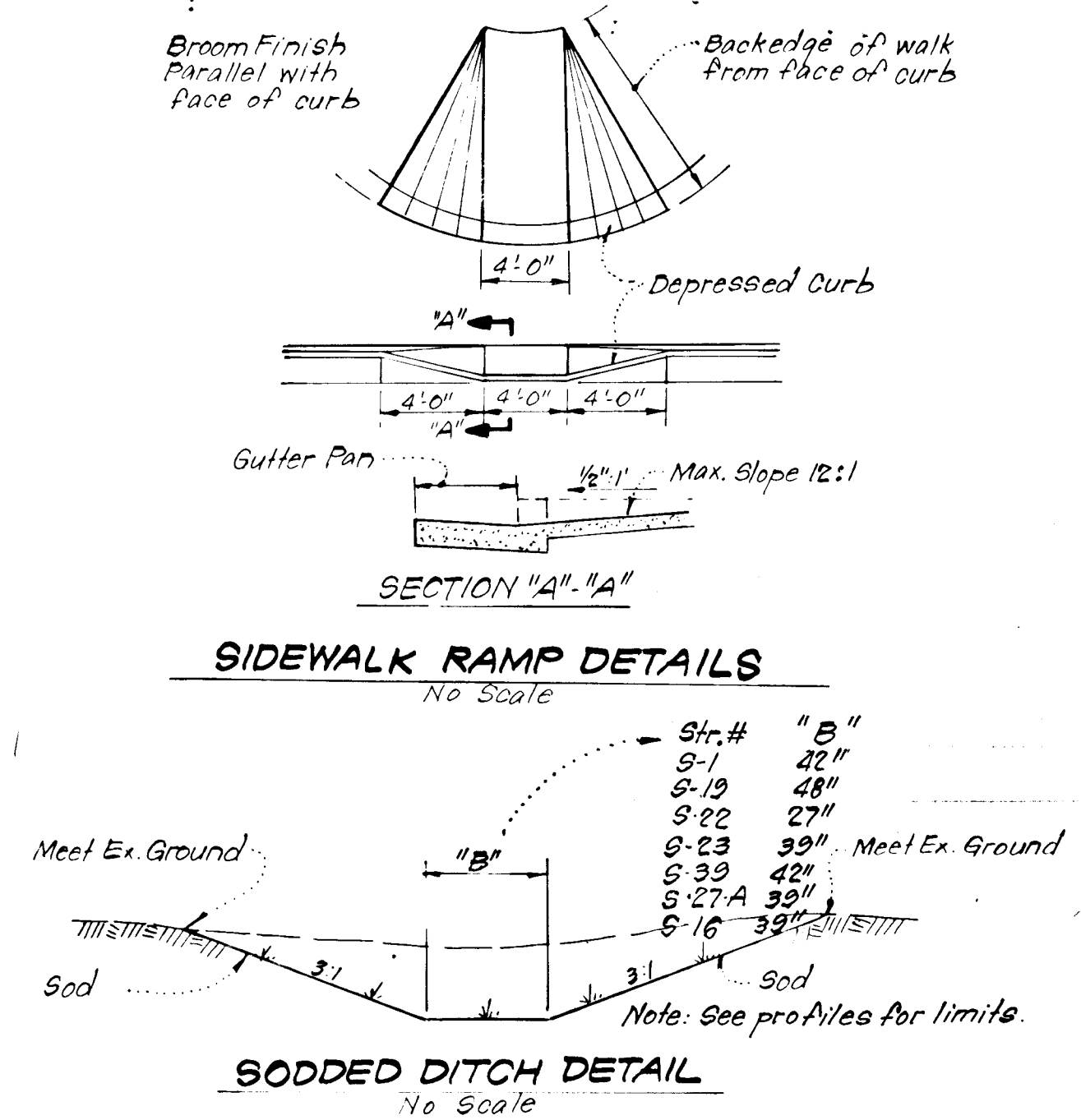
**TYPICAL PAVING SECTION FOR MINOR COLLECTOR YORKSHIRE DRIVE**  
No Scale



**CUL-DE-SAC DETAIL SALTERFORTH PLACE**  
Scale: 1"=20'



**RIP RAP PAVING DETAILS**  
No Scale



**SIDEWALK RAMP DETAILS**  
No Scale

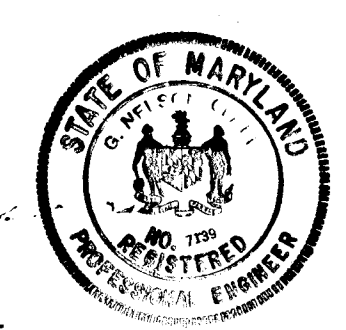
**SODDED DITCH DETAIL**  
No Scale

- GENERAL SODDING NOTES:**
- Apply 10-10-10 Fertilizer @ 1000#/acre (25#/1000 SF)
  - Apply Ground Agricultural Limestone @ 200#/acre (50#/1000 SF)
  - 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 1st 2 weeks, in summer, to ensure establishment.
  - All sod to be used must be certified by the state of Maryland.

No.	REVISION BLOCK Description	Date
1	Revised Typical Paving Sections by replacing Sod with Seed & Mulch and added Alternate Paving Section for each	5/14/80

APPROVED: Department of Public Works  
*W. O. Falbert*  
Chief, Bureau of Engineering  
Date: 2-6-80

APPROVED: Howard County Office of Planning and Zoning  
*John M. ...*  
Chief, Division of Land Development  
Date: 2-5-80



**DEVELOPER'S CERTIFICATE**  
I certify that all development and/or construction will be done according to this plan of development and plan for Erosion and Sediment Control, and I also authorize periodic on-site inspection by the Howard Soil Conservation District or their authorized agents as are deemed necessary. Deviation from this plan will not be made unless authorized by the Howard Soil Conservation District.

**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.

Reviewed for S.C.D. and meets Technical Requirements  
*[Signature]*  
Signature Date: 12/31/79  
U.S. Soil Conservation Service

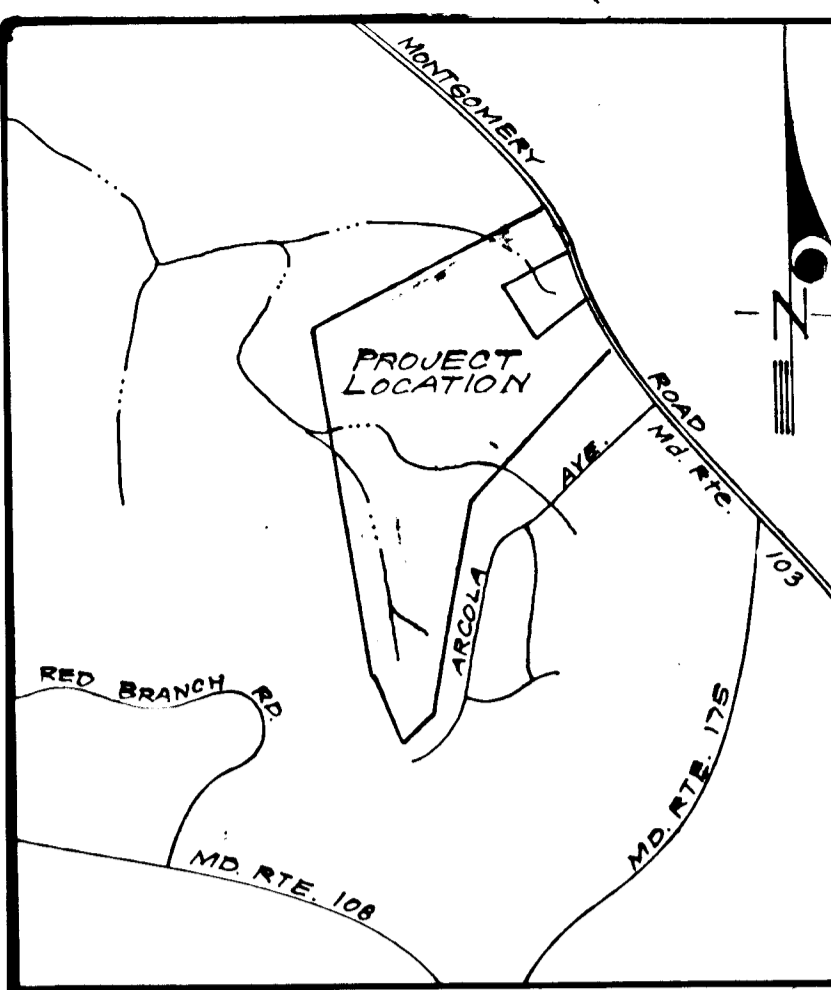
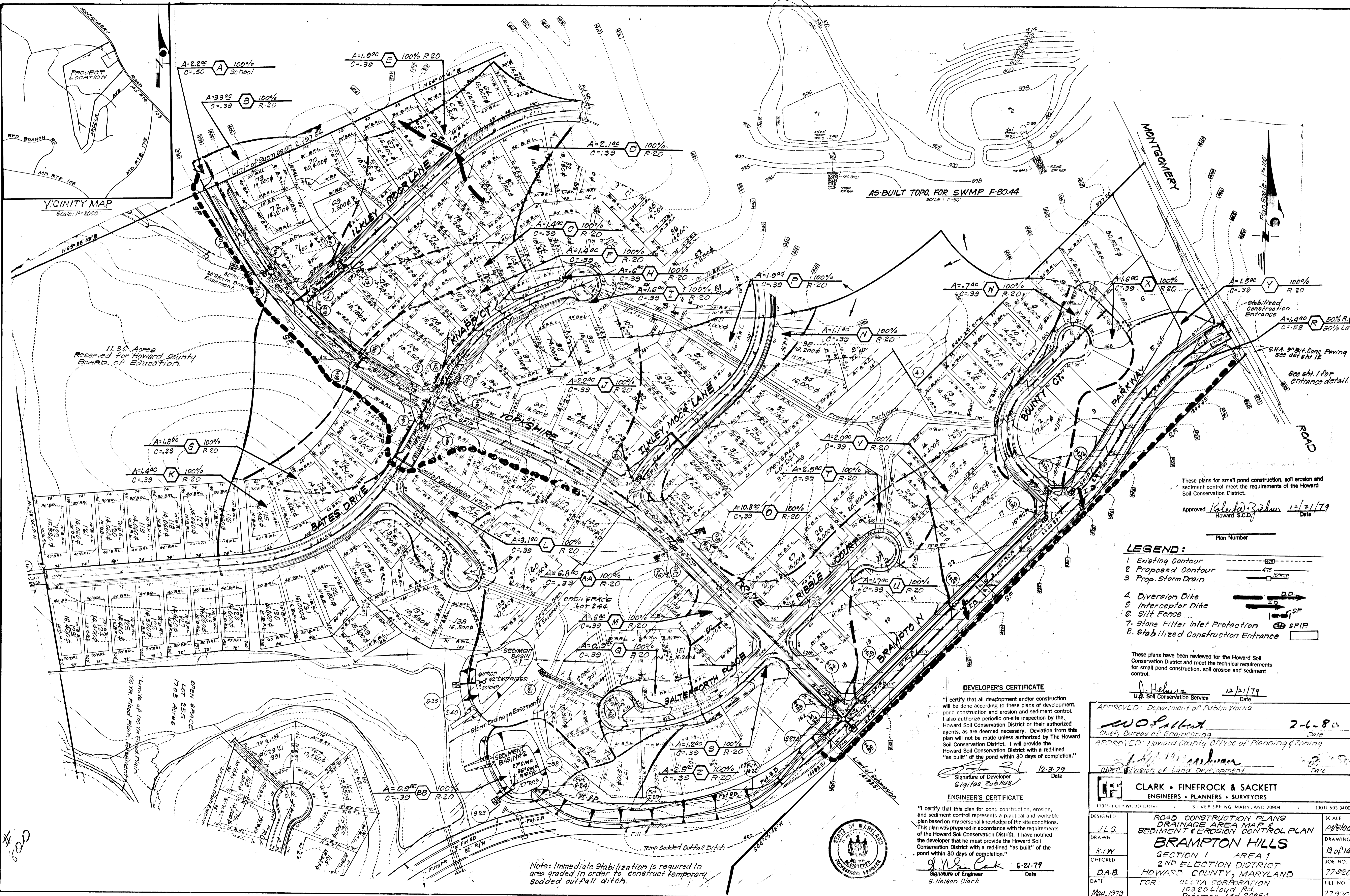
THIS DEVELOPMENT PLAN IS APPROVED FOR SOIL EROSION AND SEDIMENT CONTROL BY THE HOWARD SOIL CONSERVATION DISTRICT.

*[Signature]*  
Approved Date: 12/21/79

*[Signature]*  
Signature Date: 12-3-79  
Sigras Zubkus

*[Signature]*  
Signature Date: 6-21-77  
G. Nelson Clark

DESIGNED	J.L.G.	SCALE	As Shown
DRAWN	K.I.W.	DRAWING	120214
CHECKED	R.J.S.	JOB NO.	
DATE	FOR: CELTA CORPORATION 10325 Lloyd Rd. Potomac, Md 20854	FILE NO.	77-920-D
APR 1979			



11.36 Acres Reserved for Howard County Board of Education.

These plans for small pond construction, soil erosion and sediment control meet the requirements of the Howard Soil Conservation District.  
 Approved: *Robert Ziehm* 12/21/79  
 Howard S.C.D. Date

- LEGEND:**
- 1. Existing Contour
  - 2. Proposed Contour
  - 3. Prop. Storm Drain
  - 4. Diversion Dike
  - 5. Interceptor Dike
  - 6. Silt Fence
  - 7. Stone Filter Inlet Protection
  - 8. Stabilized Construction Entrance

These plans have been reviewed for the Howard Soil Conservation District and meet the technical requirements for small pond construction, soil erosion and sediment control.

**DEVELOPER'S CERTIFICATE**

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Signature of Developer: *Signas Zubrig* Date: 12-3-79

**ENGINEER'S CERTIFICATE**

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Signature of Engineer: *G. Nelson Clark* Date: 6-21-79

Note: Immediate stabilization is required in area graded in order to construct temporary sodded outfall ditch.

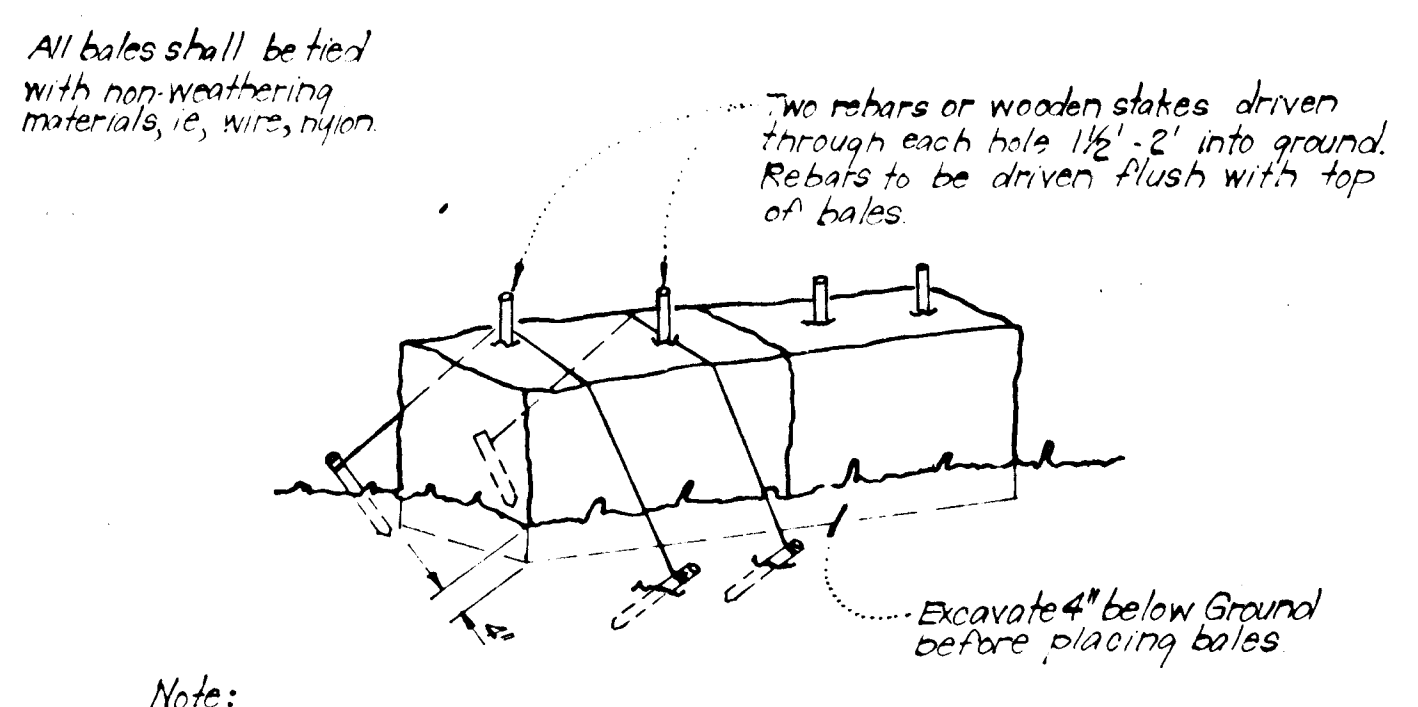


APPROVED: Department of Public Works		U.S. Soil Conservation Service	12/21/79
Signature: <i>W.O. Palka</i>		Chief, Bureau of Engineering	2-6-80
APPROVED: Howard County Office of Planning & Zoning		Signature: <i>Robert Ziehm</i>	Date
Signature: <i>G. Nelson Clark</i>		Chief, Division of Land Development	Date
<b>CLARK • FINEPROCK &amp; SACKETT</b>			
ENGINEERS • PLANNERS • SURVEYORS			
11315 LUXWOOD DRIVE SILVER SPRING, MARYLAND 20904 (301) 593-3400			
DESIGNED	J.L.S.	ROAD CONSTRUCTION PLANS	SCALE
DRAWN	K.I.W.	DRAINAGE AREA MAP & SEDIMENT & EROSION CONTROL PLAN	AS SHOWN
CHECKED	D.A.B.	BRAMPTON HILLS SECTION 1 AREA 1	13 of 14
DATE	May, 1979	2ND ELECTION DISTRICT HOWARD COUNTY, MARYLAND	JUN 90
		FOR: C/LTA CORPORATION 10325 Lloyd Rd. Potomac, Md 20854	77920
			77920 D

**GENERAL NOTES**

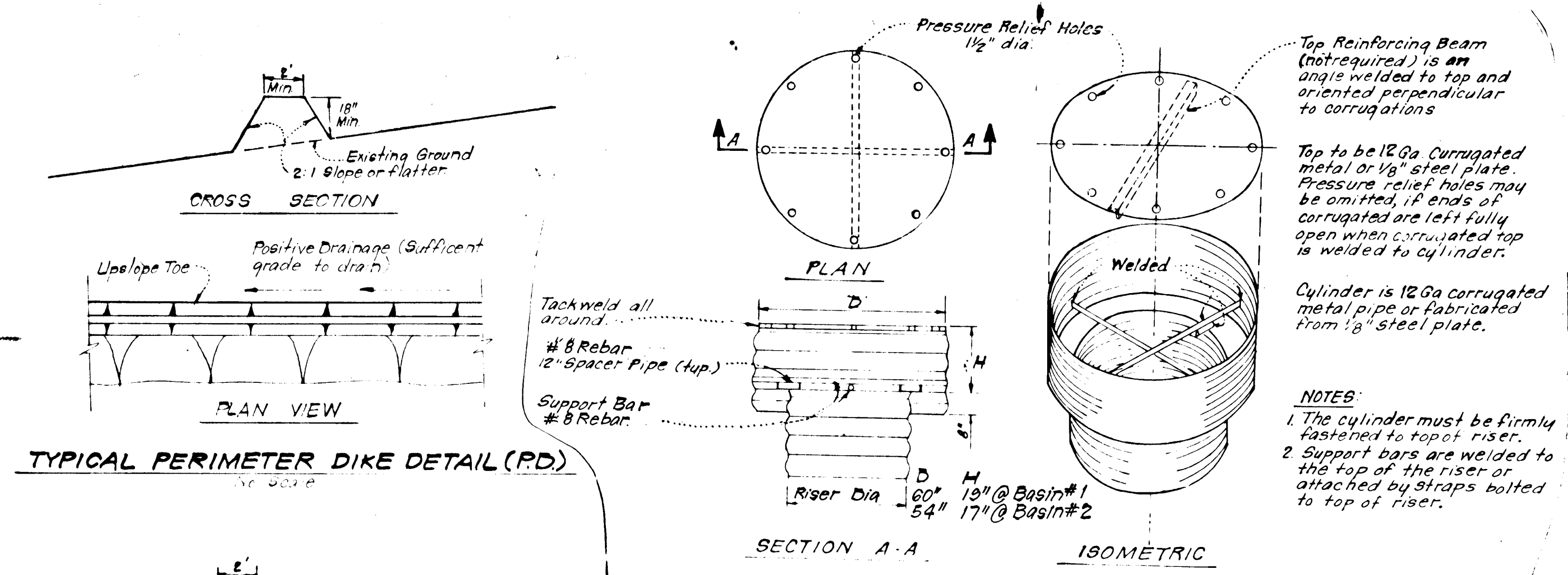
- Grading Permits shall be obtained prior to installation of Sediment Control & Grading.
- All Sediment and Erosion Control Measures will be installed and stabilized according to this plan prior to any other grading, clearing or disturbance of the existing surface of the site. See note #6 for stabilization except that the seed mixture will be annual type applied at a rate of 1.4 lbs/1000 s.f.
- Notify the Bureau of Inspections and Permits at least 24 hrs before starting any work.
- All Sediment Control Practices to conform to the "Standards and Specifications for Soil Erosion and Sediment Control in Developing Areas" and shall be adjusted to meet actual field conditions.
- Stabilization of Disturbed ground to be done as soon after construction as possible.
- All grading shall be treated in accordance with the following Specifications:
  - Seed - certified 85% germination applied at the rate of 3 lbs/1000 s.f. Mixture - 40% Kentucky Blue, 20% Chewy Fescue, 20% Kentucky 31 and 20% annual rye.
  - Fertilizer - 10-10-10 applied at a rate of 23 lbs/1000 s.f. Ground Agricultural Lime or Dolomitic Lime applied at a rate of 46 lbs/1000 s.f.
  - Mulch - Weed free grain straw applied at a rate of 46 lbs/1000 s.f. Mulch shall be secured to the ground by any approved method i.e. asphalt tacks, chemical binder, etc.
  - All Seed used shall be Maryland State Certified.
- All Structural Sediment Control Measures are to remain in place until permission for their removal has been obtained from the Bureau of Inspections and Permits.
- On-Site Inspection and Maintenance of all Sediment Control Measures including clean out of Sediment Traps and dikes, and proper establishment of all plants & vegetation measures will be the responsibility of the developer or his representative on the site, on a continuing day to day basis.
- It will be the developers responsibility to provide additional Sediment & Erosion Control Devices to protect stabilized areas during construction.
- The Contractor shall keep all public roads free of sediment deposits left from traffic leaving construction site.
- Stabilized Construction Entrances shall be placed at all construction entrances.
- SITE ANALYSIS:**

A Total Area	21.222	Acres
B Area to be Roofed	0	Acres
C Area to be Paved	5.139	Acres
D Area to be Seeded	16.083	Acres
E Area Undisturbed	0	Acres
- CONSTRUCTION SEQUENCE:**
  - Install Stabilized Construction Entrance.
  - Construct Sediment Basin #1 and #2
  - Install Silt Fence along South Boundary of Property
  - Construct Temporary Saddled Ditch and Stabilize
  - Install Silt Fence along Yorkshire Drive & Diversion Dike as shown on plan.
  - Rough Grade all Roadways
  - Construct Storm Drainage and Install S.F.I.P.'s
  - Final Grade all Roadways
  - Construct Roads and stabilize unpaved areas in accordance with Note #6
  - After all disturbed areas have been stabilized Modify Str # I-40 & Str # I-38 to conform with S.W.M. Plans. (See details sht. # 14)



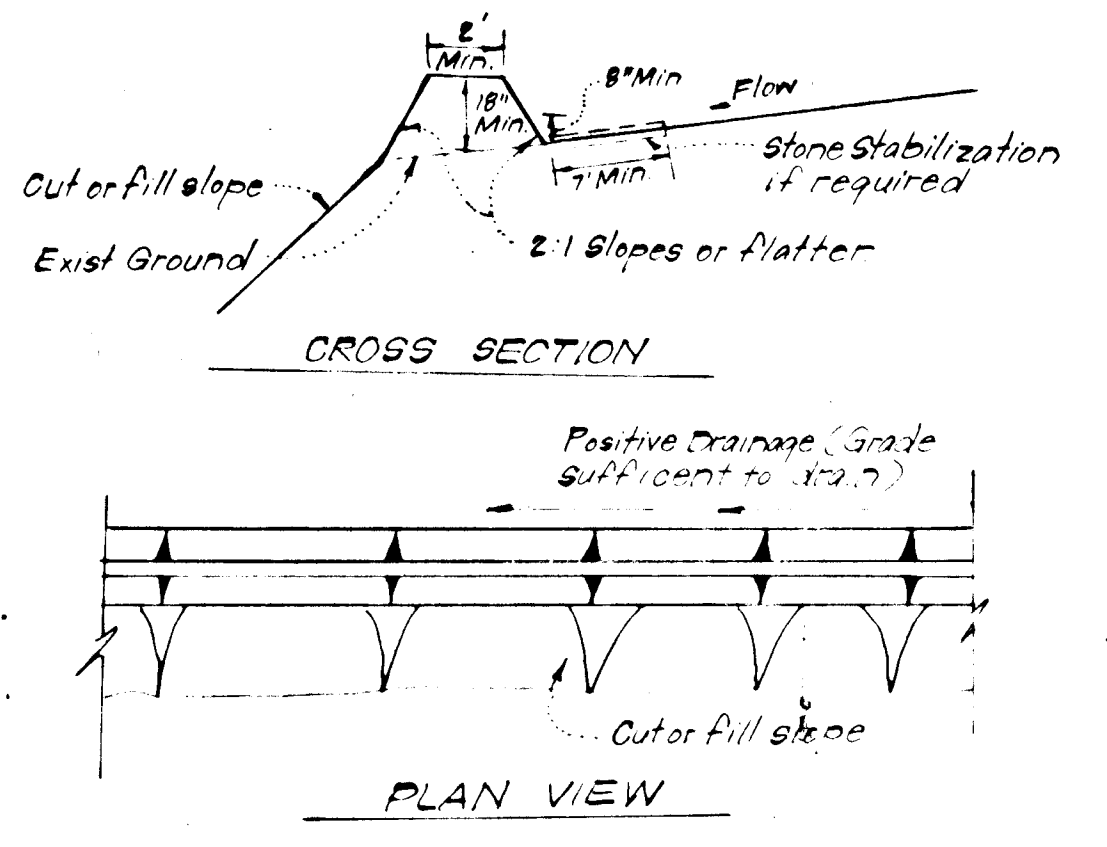
Note:  
1. In lieu of the use of rebar each straw bale may be fastened to ground with pegs (4 per bale and wire or nylon as shown above).

**TYPICAL STRAW BALE DIKE DETAIL (S.B.D.)**  
No Scale

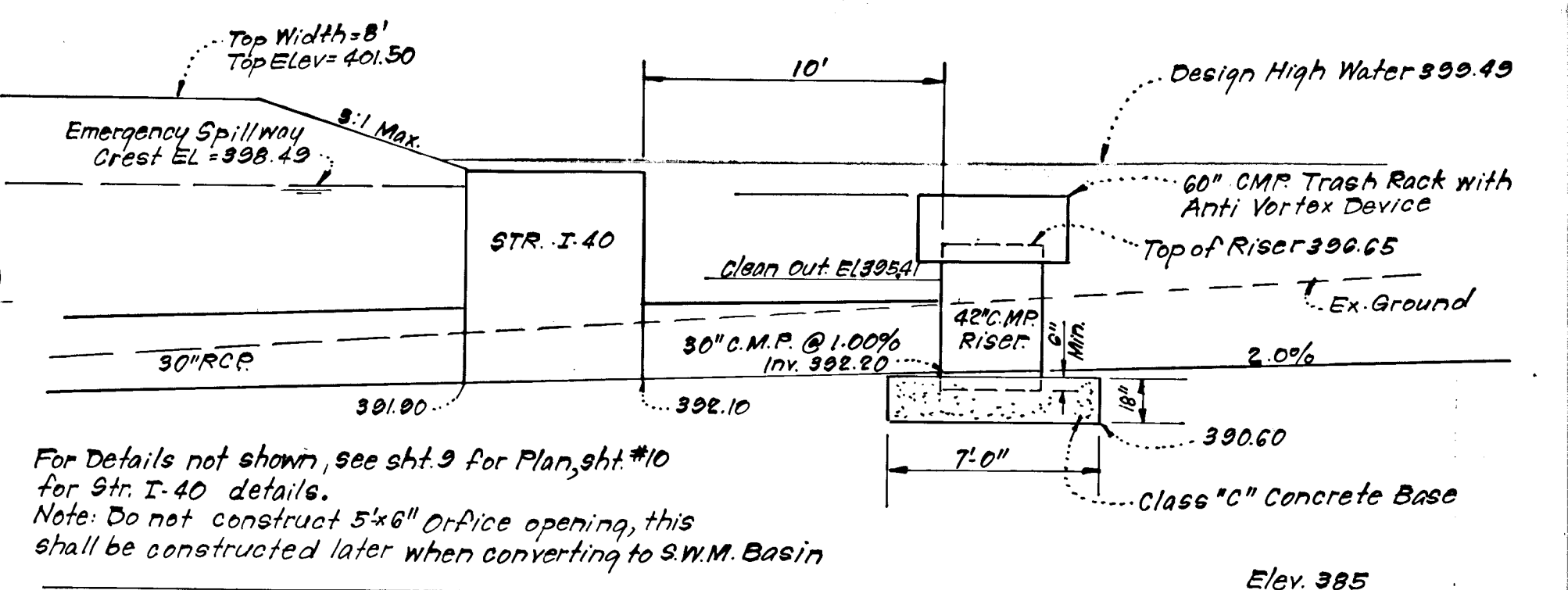


**TYPICAL PERIMETER DIKE DETAIL (P.D.)**  
No Scale

**CONCENTRIC TRASH RACK AND ANTI-VORTEX DEVICE**  
No Scale

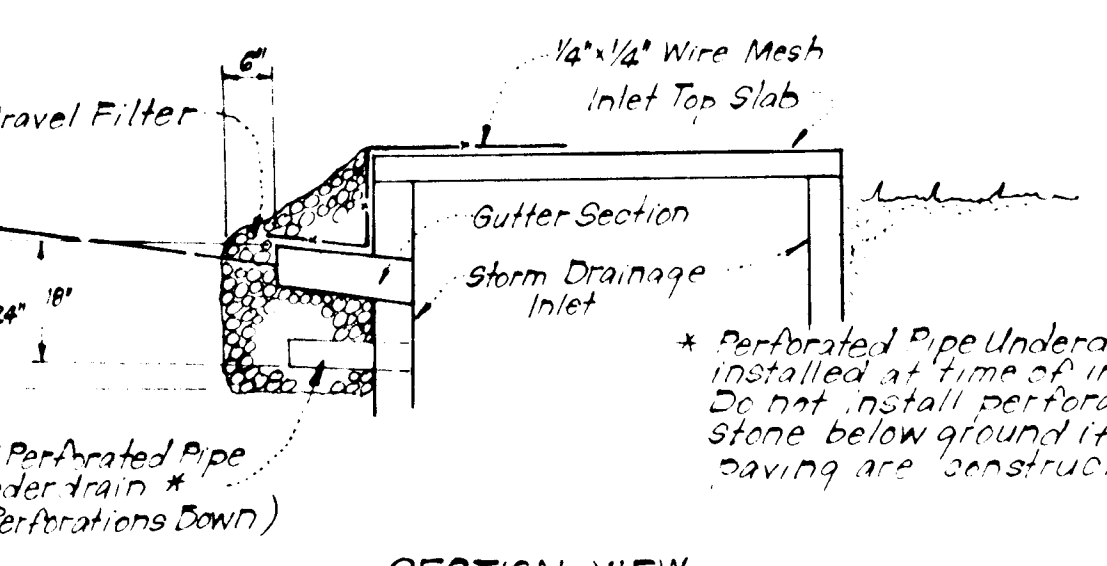
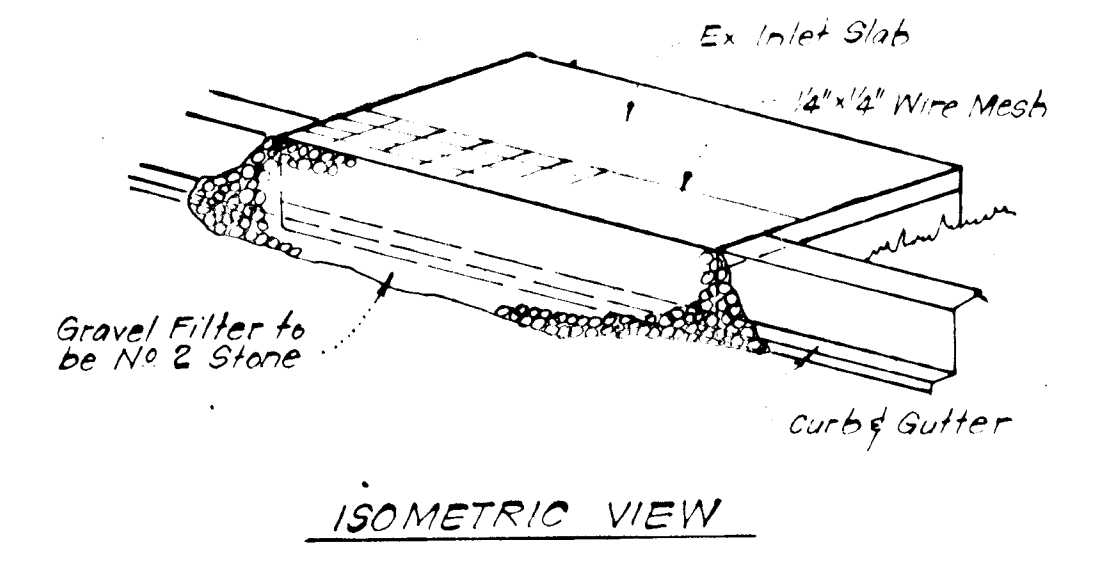


**TYPICAL DIVERSION DIKE DETAIL (D.D.)**  
No Scale

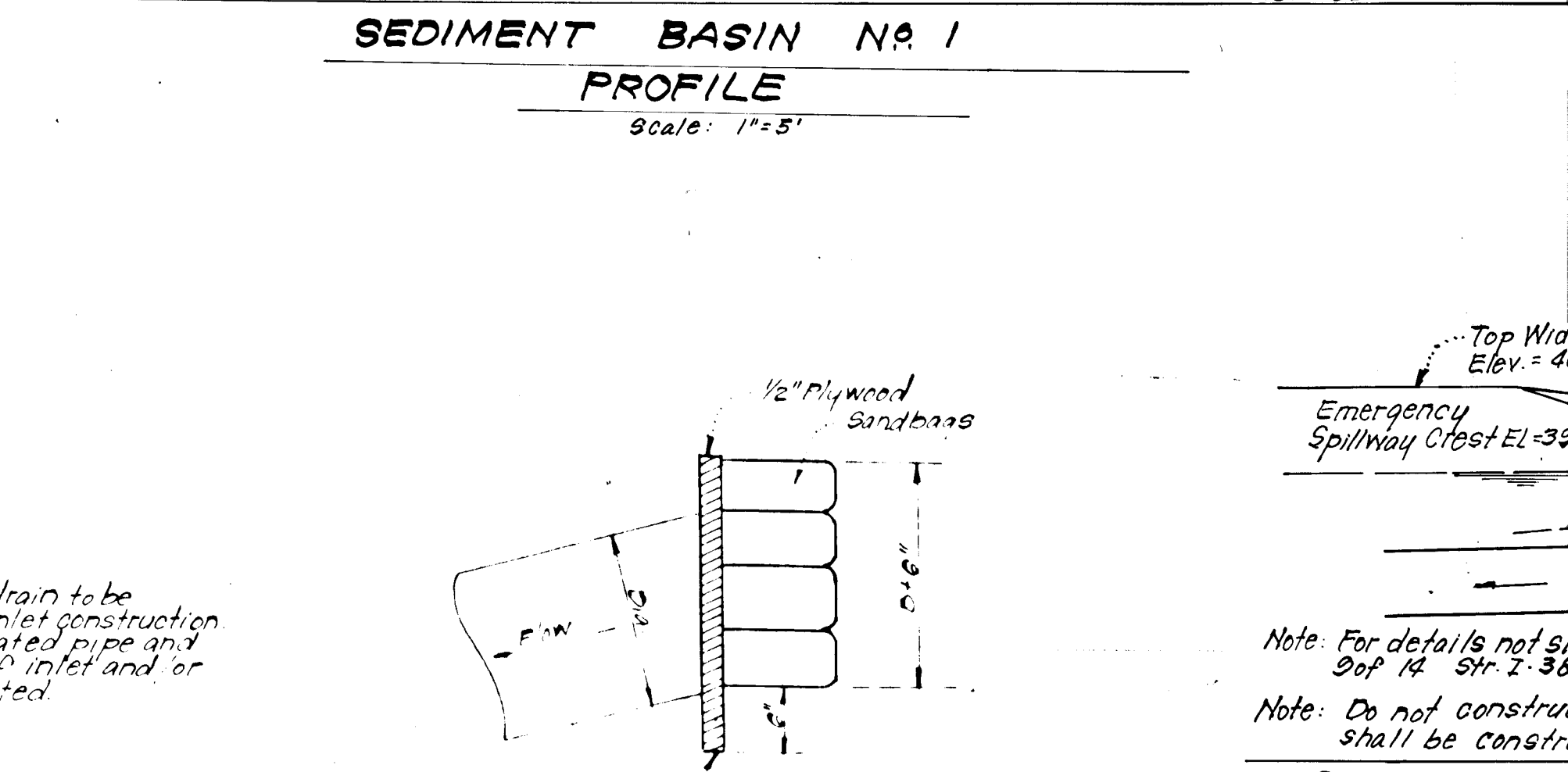


For Details not shown, see sht. 9 for Plan, sht. #10 for Str. I-40 details.  
Note: Do not construct 5'x6\"/>

**SEDIMENT BASIN NO. 1**  
PROFILE  
Scale: 1"=5'

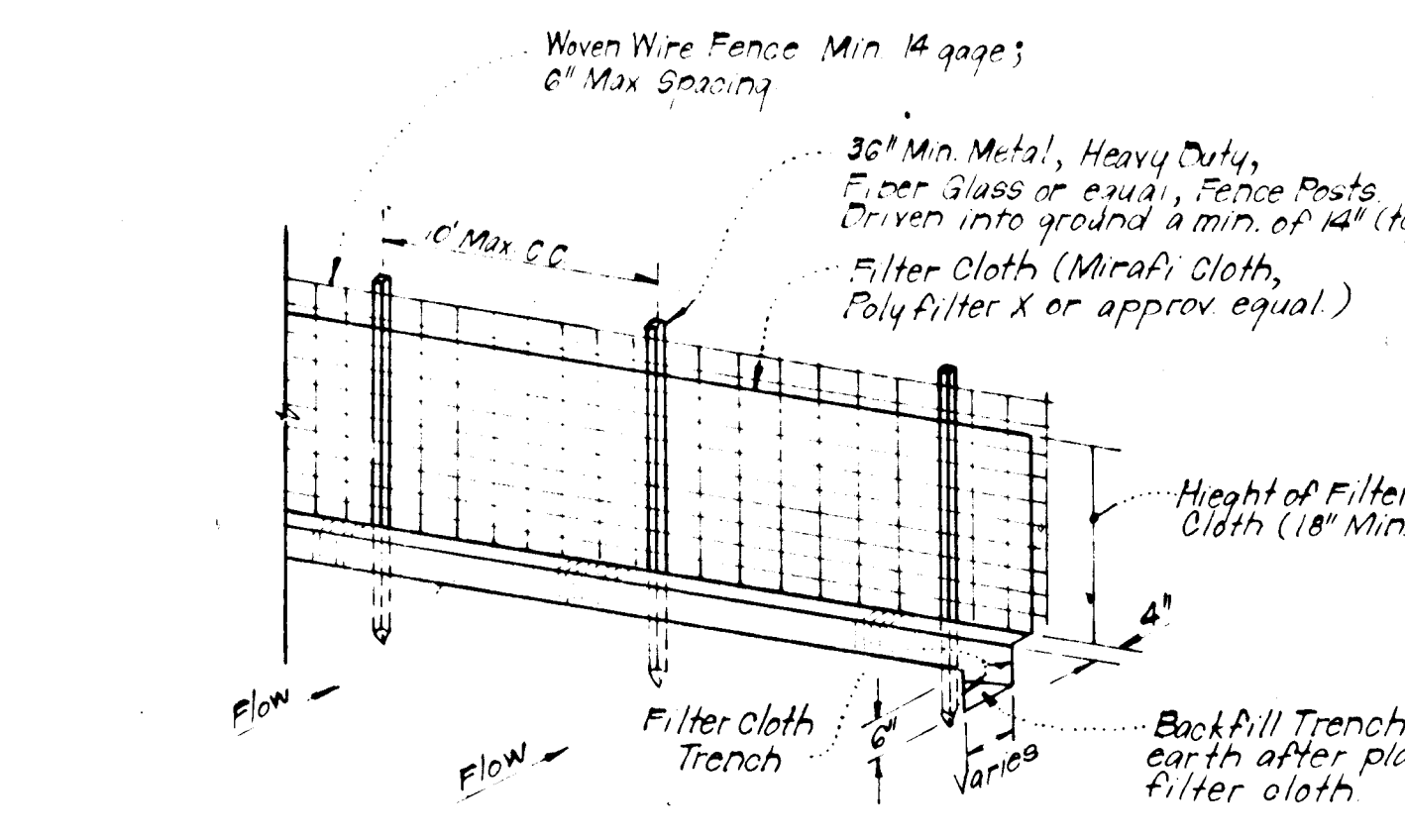


**STONE FILTER INLET PROTECTION (S.F.I.P.)**  
No Scale



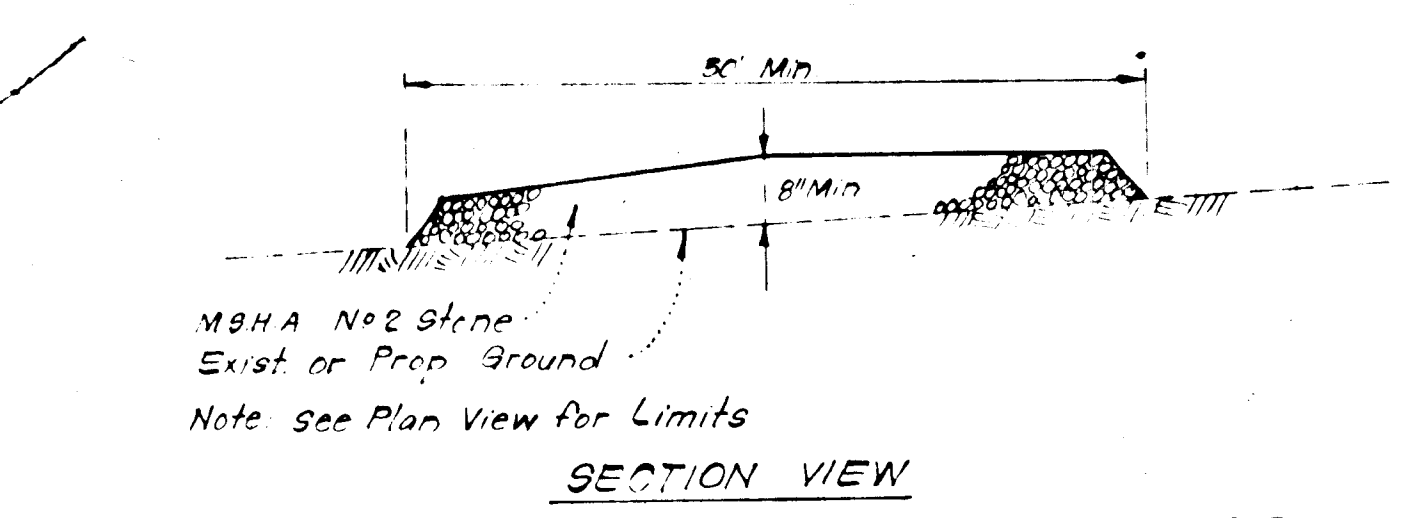
Note: For details not shown see sht. 9 of 14 Str. I-38  
Note: Do not construct 3'x1\"/>

**SEDIMENT BASIN NO. 2**  
PROFILE  
Scale: 1"=5'



Notes:  
1. Woven Wire Fence to be fastened securely to fence posts by use of wire ties.  
2. Filter Cloth to be fastened securely to Woven Wire by use of wire ties spaced every 24\"/>

**TYPICAL SILT FENCE DETAIL (S.F.)**  
No Scale



**STABILIZED CONSTRUCTION ENTRANCE**  
No Scale

650

These plans for small pond construction, soil erosion and sediment control meet the requirements of the Howard Soil Conservation District.  
Approved: Richard Zebkus 12/21/79  
Howard S.C.D. Date

These plans have been reviewed for the Howard Soil Conservation District and meet the technical requirements for small pond construction, soil erosion and sediment control.  
Janet M. Nelson 12-20-79  
U.S. Soil Conservation Service Date

**DEVELOPER'S CERTIFICATE**  
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Richard Zebkus 12-3-79  
Signature of Developer Date

**ENGINEER'S CERTIFICATE**  
"I certify that this plan for pond construction, erosion, and sediment control represents a practical and workable plan based on my personal knowledge of the site conditions. This plan was prepared in accordance with the requirements of the Howard Soil Conservation District. I have notified the developer that he must provide the Howard Soil Conservation District with a red-lined 'as built' of the pond within 30 days of completion."  
Janet M. Nelson 12-21-79  
Signature of Engineer Date



APPROVED: Department of Public Works  
W. O. Pickett 2-6-80  
Chief, Bureau of Engineering Date

APPROVED: Howard County Office of Planning & Zoning  
John M. Johnson 2-5-80  
Chief, Planning & Zoning Date

**CLARK • FINEPROCK & SACKETT**  
ENGINEERS • PLANNERS • SURVEYORS  
1115 LEE KIRKWOOD DRIVE • VERMILION, MARYLAND 20784

DESIGNED	J.L.S.	SCALE	As Shown
DRAWN	K.I.W.	DRAWING	14 of 14
CHECKED	D.A.B.	JOB NO.	77-920
DATE	May, 1979	FILE NO.	77-920-D

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

**BRAMPTON HILLS**  
SECTION 1 AREA 1  
2ND ELECTION DISTRICT  
HOWARD COUNTY, MARYLAND

FOR: DELTA CORPORATION  
10325 Lloyd Road  
Potomac, Md 20854