

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 clean out 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 Std. Specs.
- III. PIPE CONDUITS:**
Corrugated Metal Pipe
A. **Materials:** The pipe and its appurtenances shall conform to the requirements of AASHTO specification M-36 with watertight coupling bands. The inside and outside of the pipe and appurtenances shall be completely coated with bituminous cement to a minimum thickness of 0.4 inches, measured at the crest of the corrugations.
B. **Laying Pipe:** The pipe shall be placed with inside circumferential laps pointing downstream and with longitudinal laps at the sides. The joining of sections of pipes shall be done in the manner so as to secure a watertight joint.
C. **Bedding:** The pipe shall be firmly and uniformly bedded throughout its entire length. Where rock or soft, spongy or other unstable soil is encountered all such material shall be removed and replaced with suitable earth compacted to provide adequate support.
D. **Backfilling** shall conform to structural backfill as shown above.
- IV. 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).
- V. 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 finish grading. 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 in accordance with the above mentioned Standards and Specifications.

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 _____ Date 6/19/78

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 6-19-78



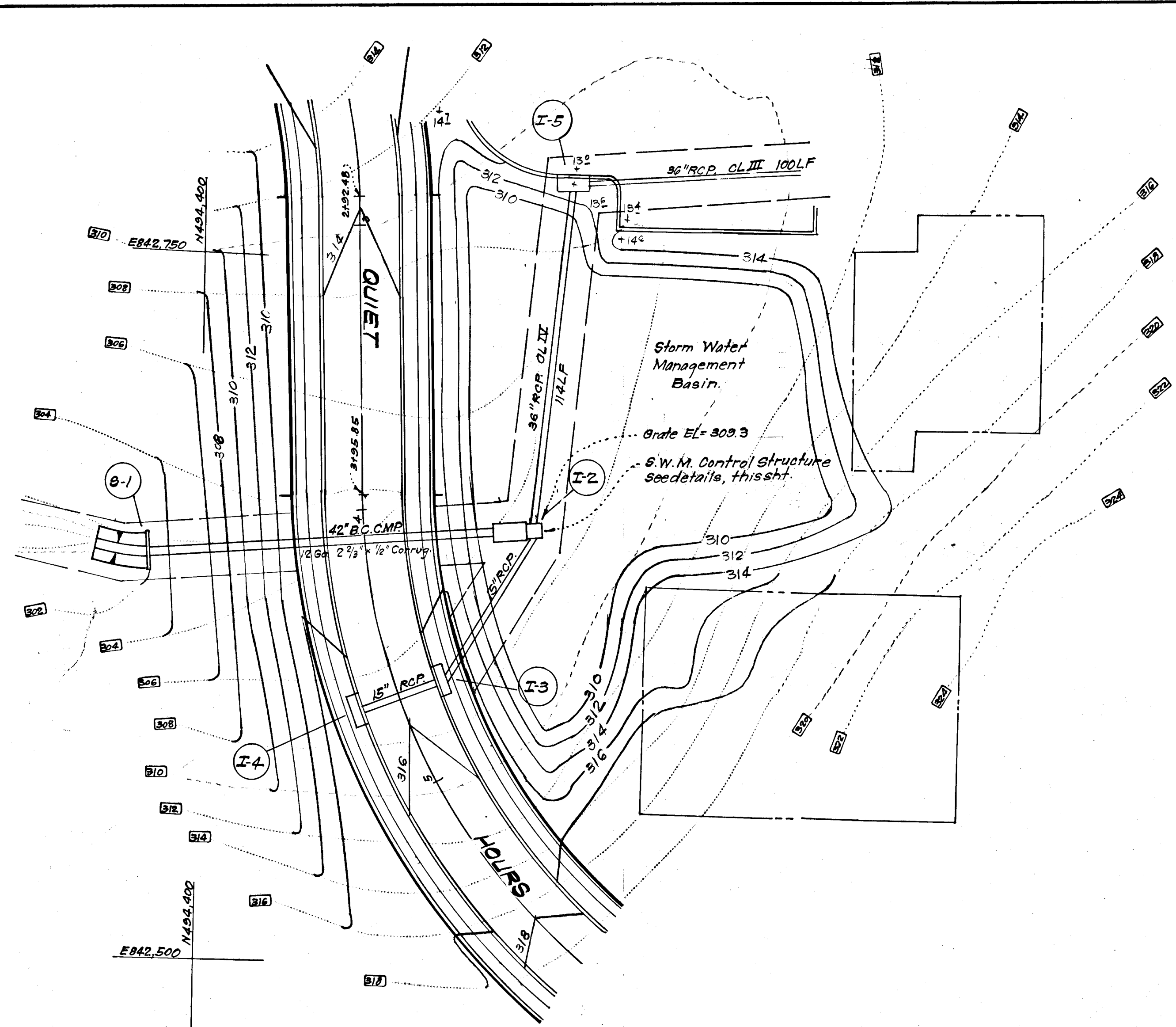
APPROVED: DEPARTMENT OF PUBLIC WORKS

Signature _____ Date 8-14-78
Chief, Bureau of Engineering

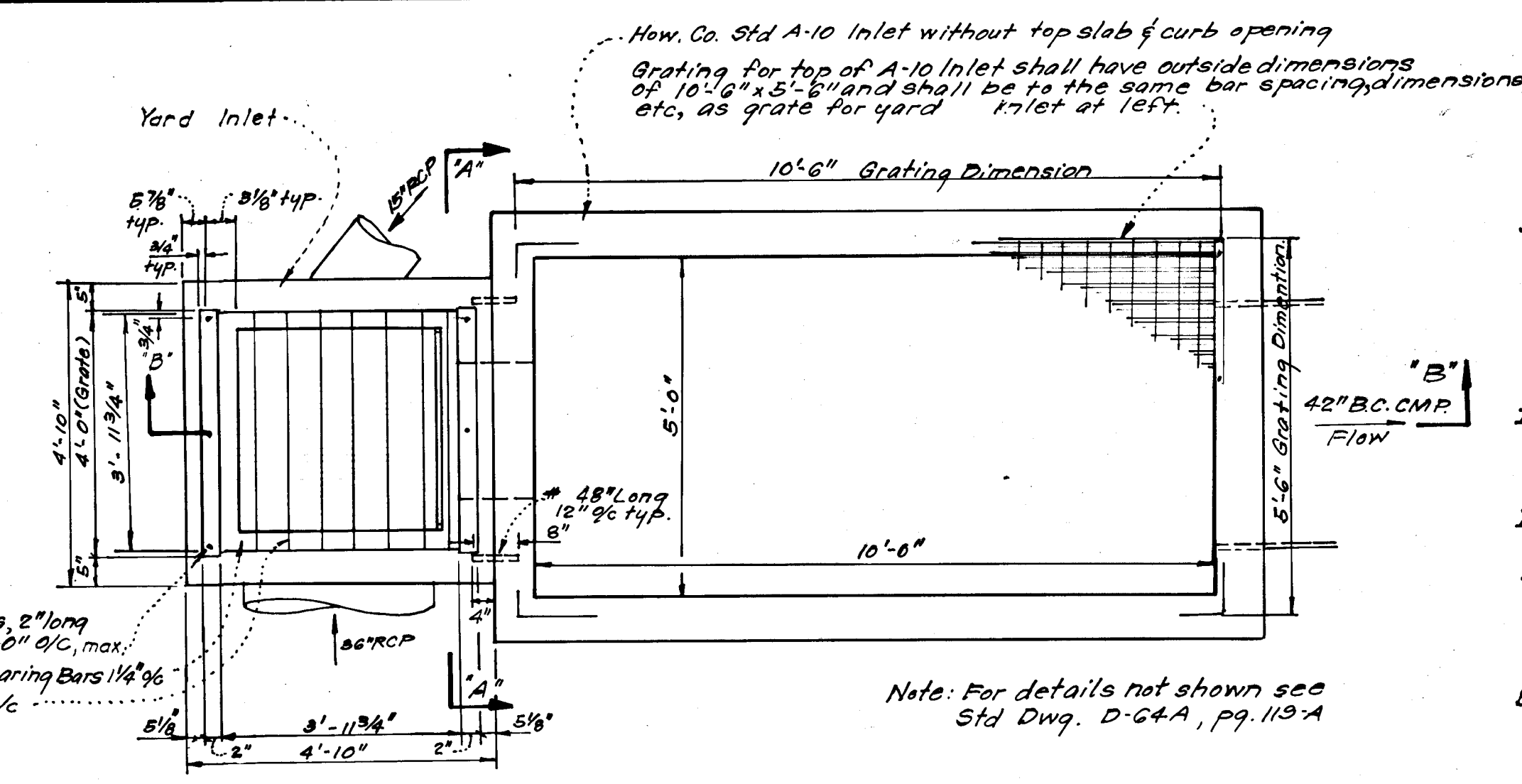
APPROVED: HOWARD COUNTY OFFICE OF PLANNING & ZONING
Signature _____ Date 8-10-78
Chief, Division of Land Development

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

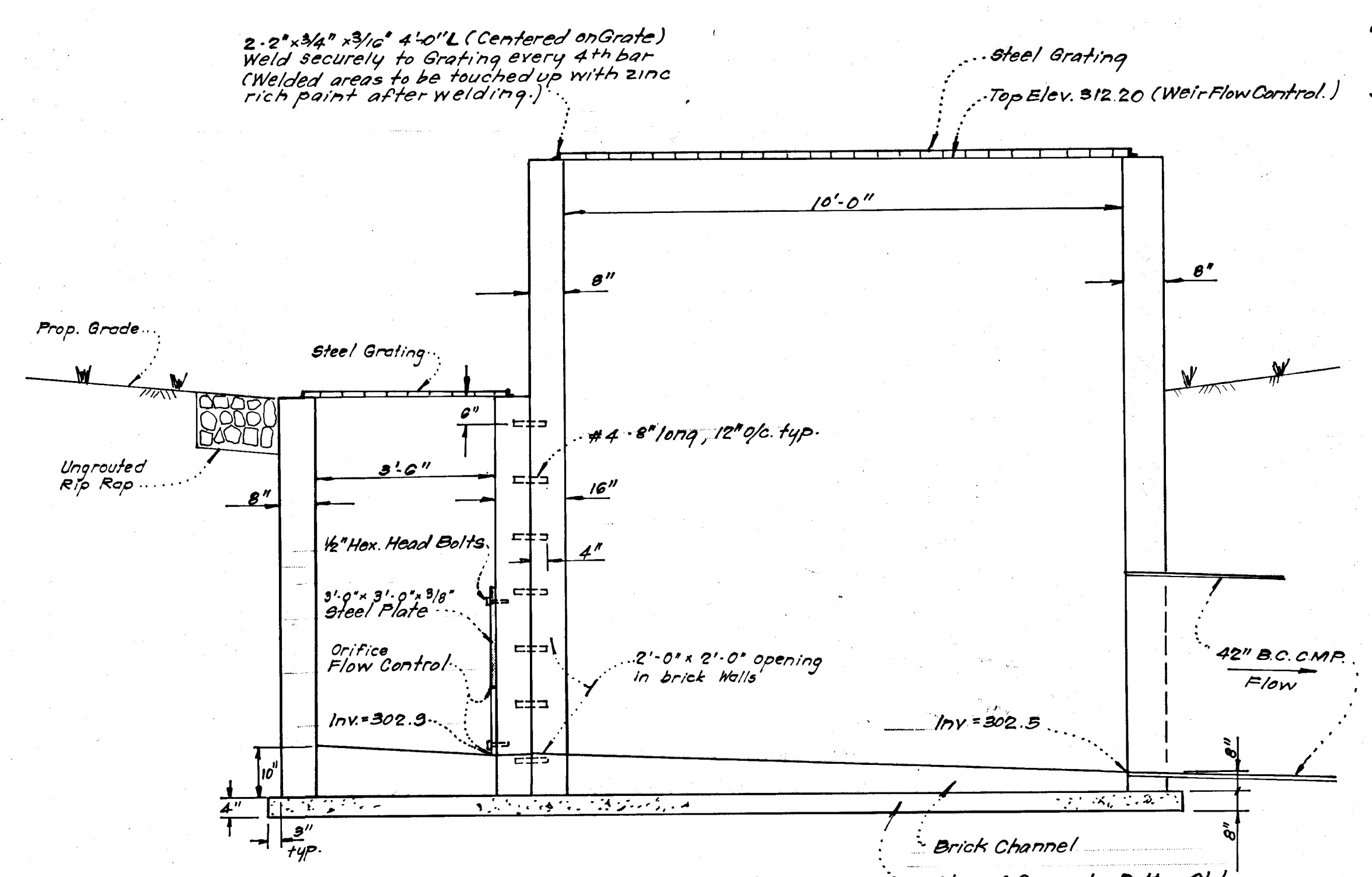
DESIGNED R.U.S.	ROAD CONSTRUCTION PLAN STORM WATER MANAGEMENT DETAILS	SCALE As Shown
DRAWN K.I.W.	COLUMBIA	DRAWING 7 of 7
CHECKED R.U.S.	VILLAGE OF OWEN BROWN SECTION 4 GHA ELECTION DISTRICT HOWARD COUNTY, MARYLAND	JOB NO.
DATE June, 1978	FOR: HOWARD RESEARCH & DEVELOPMENT CORP. The Rouse Company Building Columbia, Maryland 21044	FILE NO. 1231-D



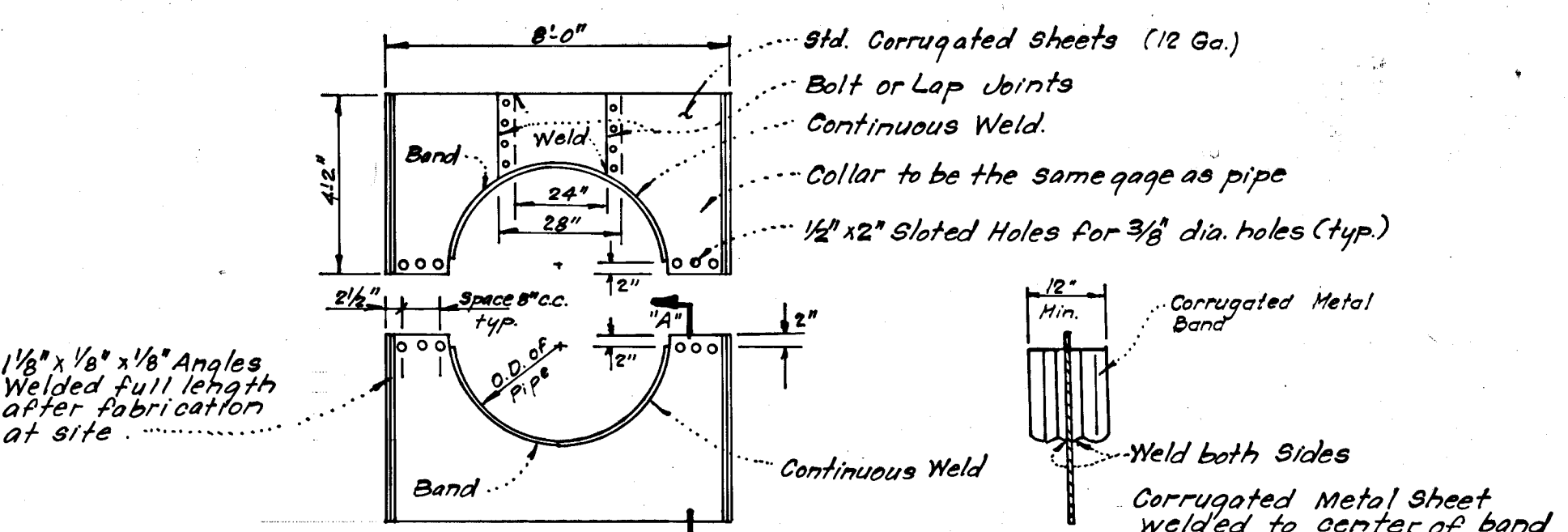
PLAN
Scale: 1"=30'



PLAN



SECTION "B"- "B"



ELEVATION **SECTION "A"- "A"**

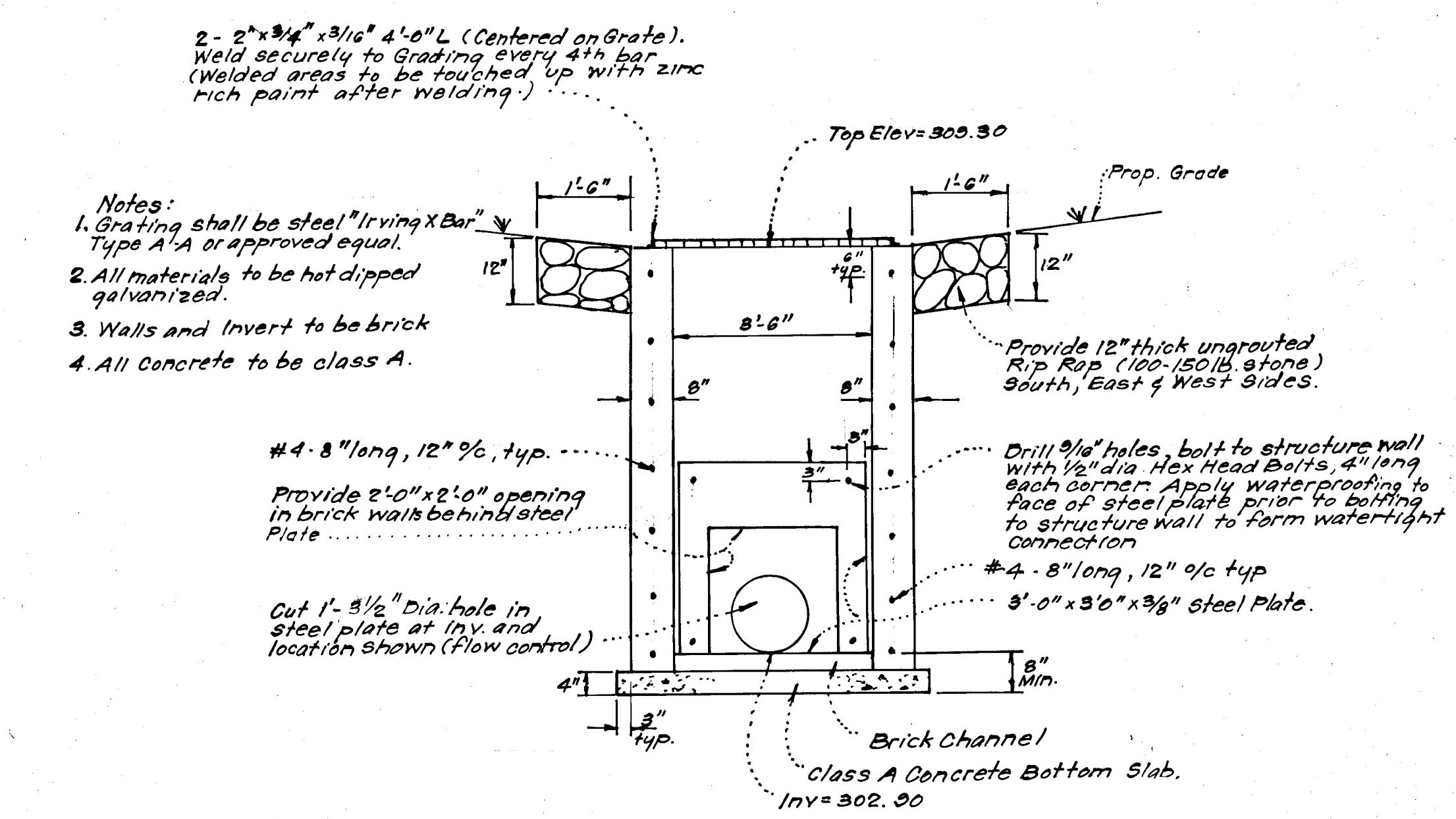
- Notes:**
- All materials to be in accordance with Construction and Construction Material Specifications.
 - When specified on the plans, coating of collars shall be in accordance with Construction and construction specifications.
 - Unassembled collars shall be marked by painting or tagging to identify matching sets.
 - The lap between the two half sections and between the pipe and connecting band shall be caulked with asphalt mastic at time of installation.
 - Each collar shall be furnished with 2-1/2" diameter rods with standard tank lugs for connecting collar to pipe.

CORRUGATED METAL ANTI-SEEP COLLAR
No SCALE

Reviewed for... **HOWARD**... S.C.D.
Name
and meets Technical Requirements
Signature _____ Date 8-3-78
U.S. Soil Conservation Service

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

Signature _____ Date 8-3-78
Approved

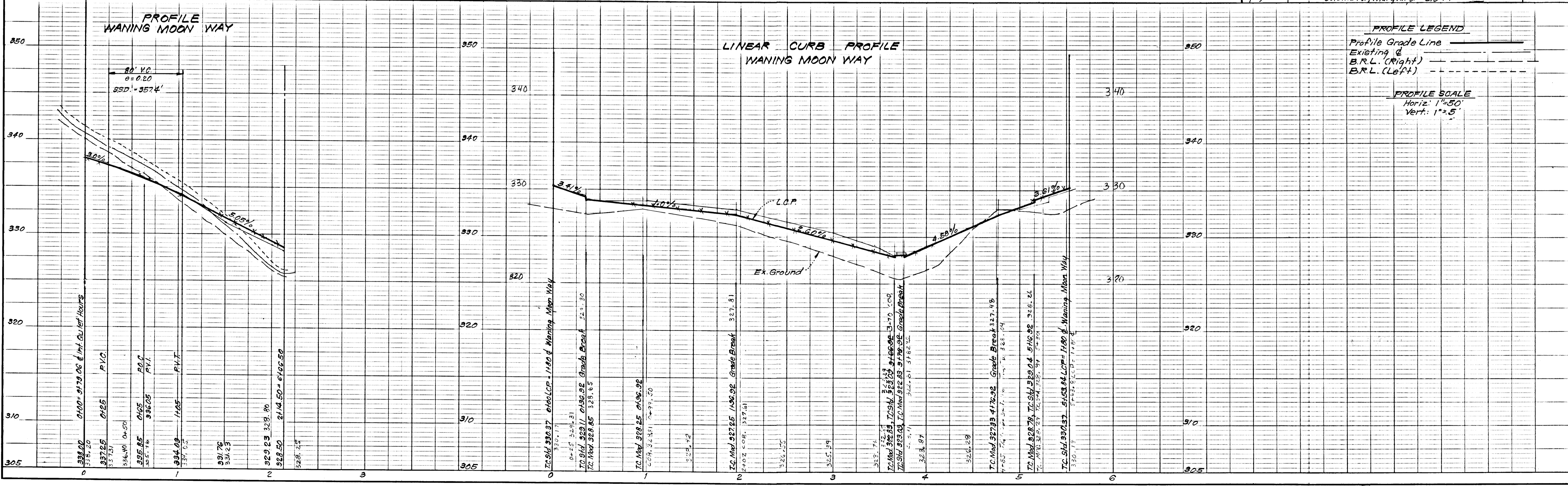
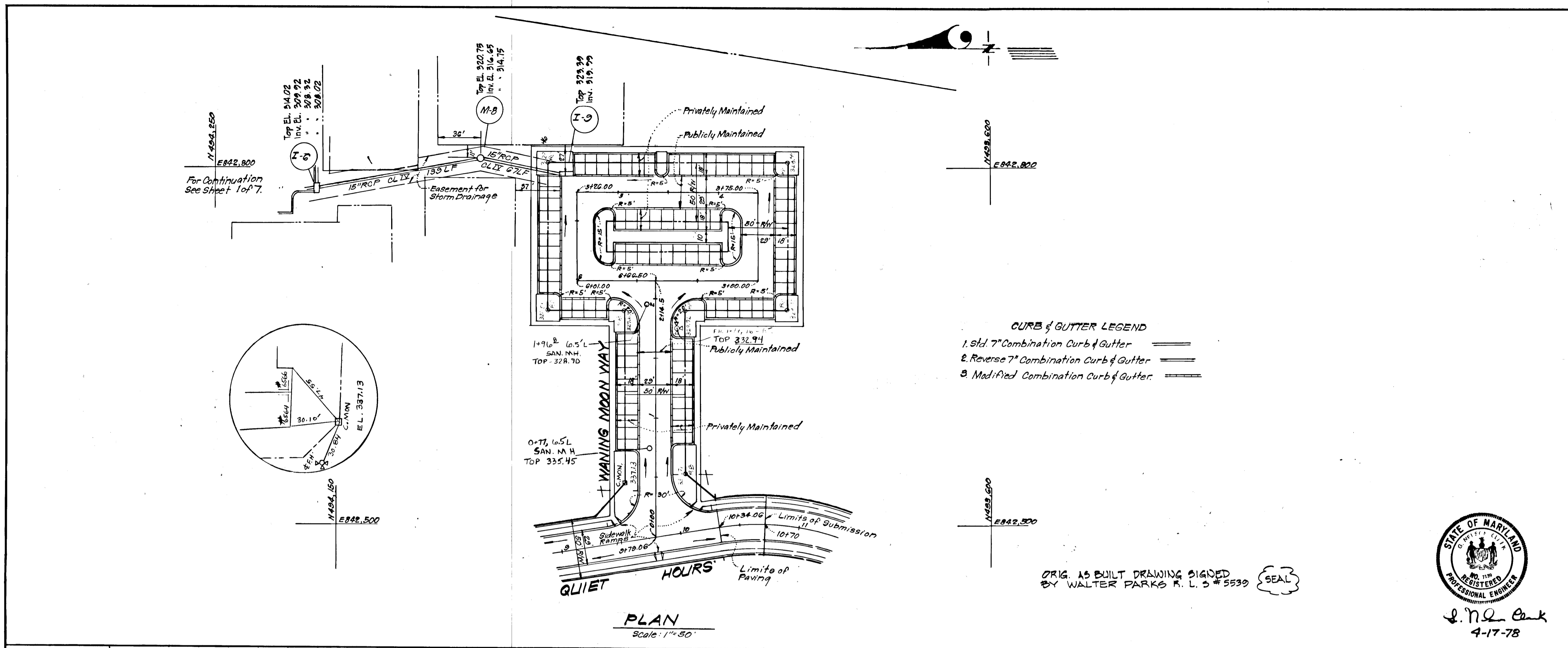


SECTION "A"- "A"

DETAILS OF STRUCTURE I-2
STORM WATER MANAGEMENT CONTROL STRUCTURE
No scale

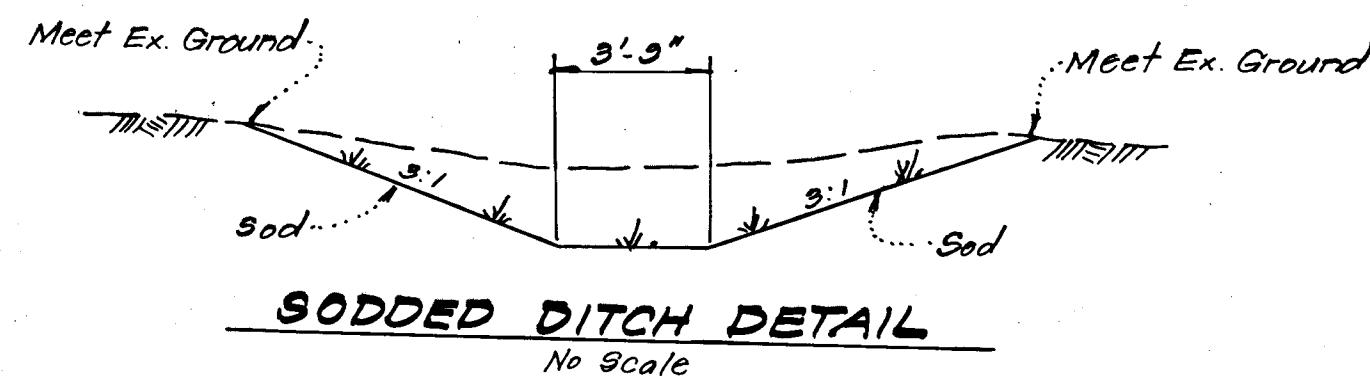
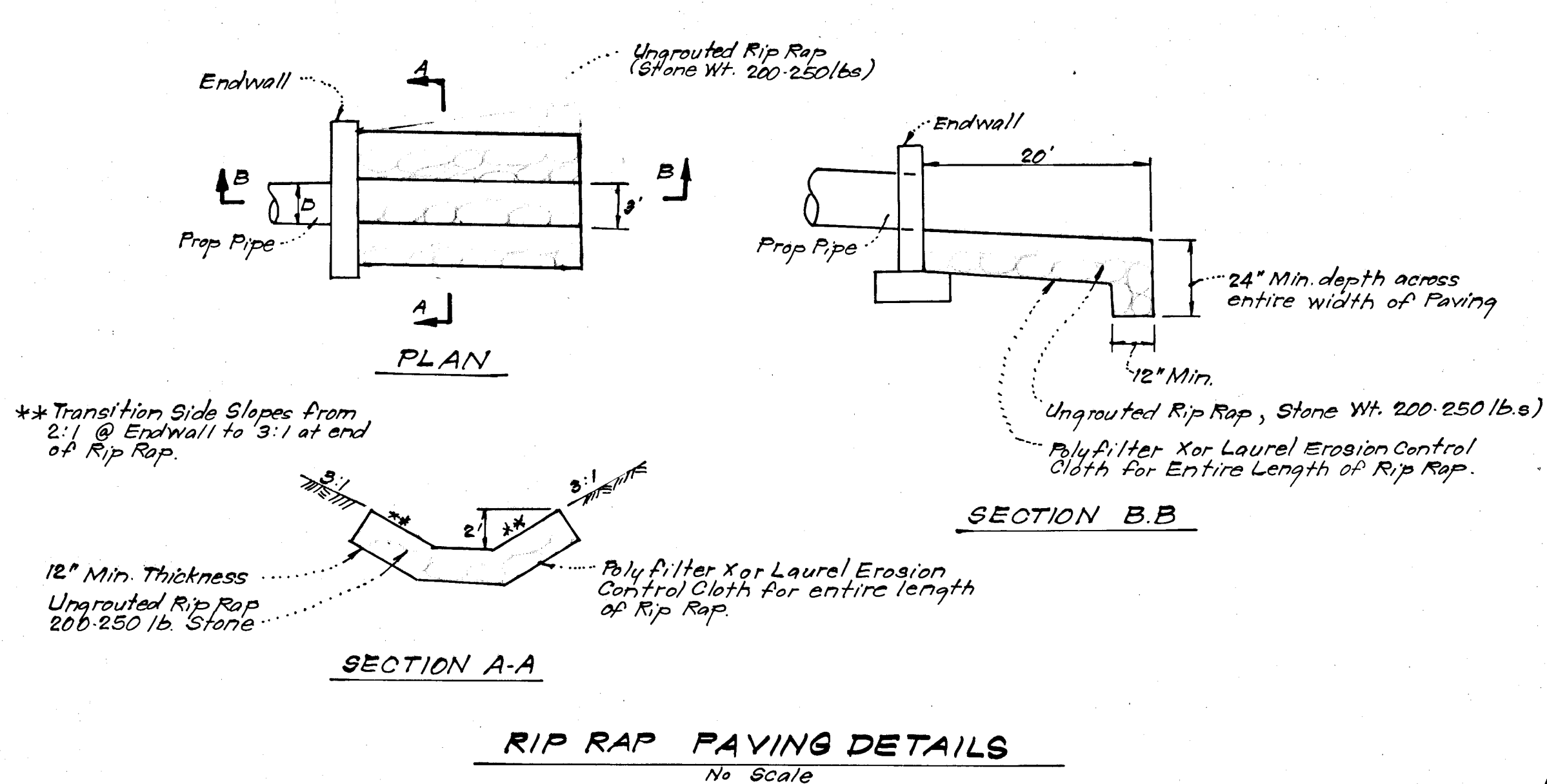
#61
Dec. 1, 91
Reamb. Parcel "B"

F-78-118



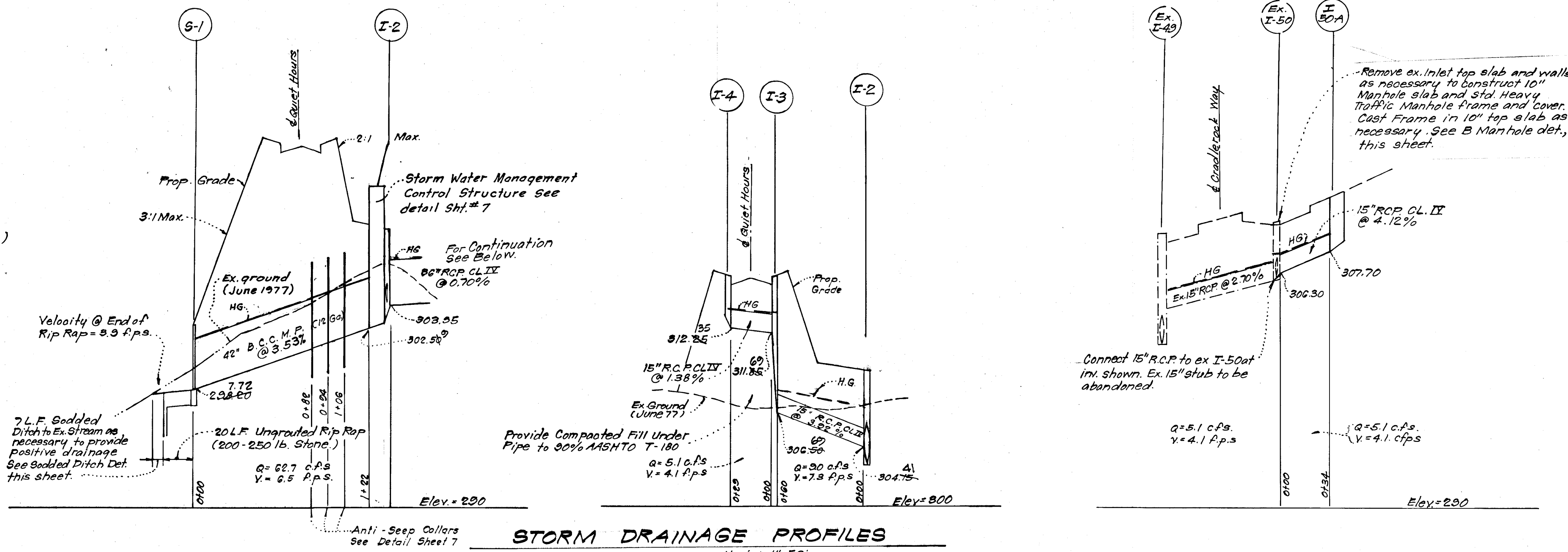
HCI
SEC. 1, AREA 1
K&S 44-70245
Realt. Parcel "B"

HERCULENE®
MADE IN U.S.A.



GENERAL SODDING NOTES

1. Apply 10-10-10 Fertilizer @ 1000# per acre (25#/1000#).
2. Apply Ground Agricultural Limestone @ 2000#/acre (50#/1000#).
3. Incorporate both Lime & Fertilizer into soil by discing. (Firm up after incorporation.)
4. Lay sod to a tight fit. Roll to insure contact with underlying soil. Water as necessary for 1st two weeks (in summer) to ensure establishment.



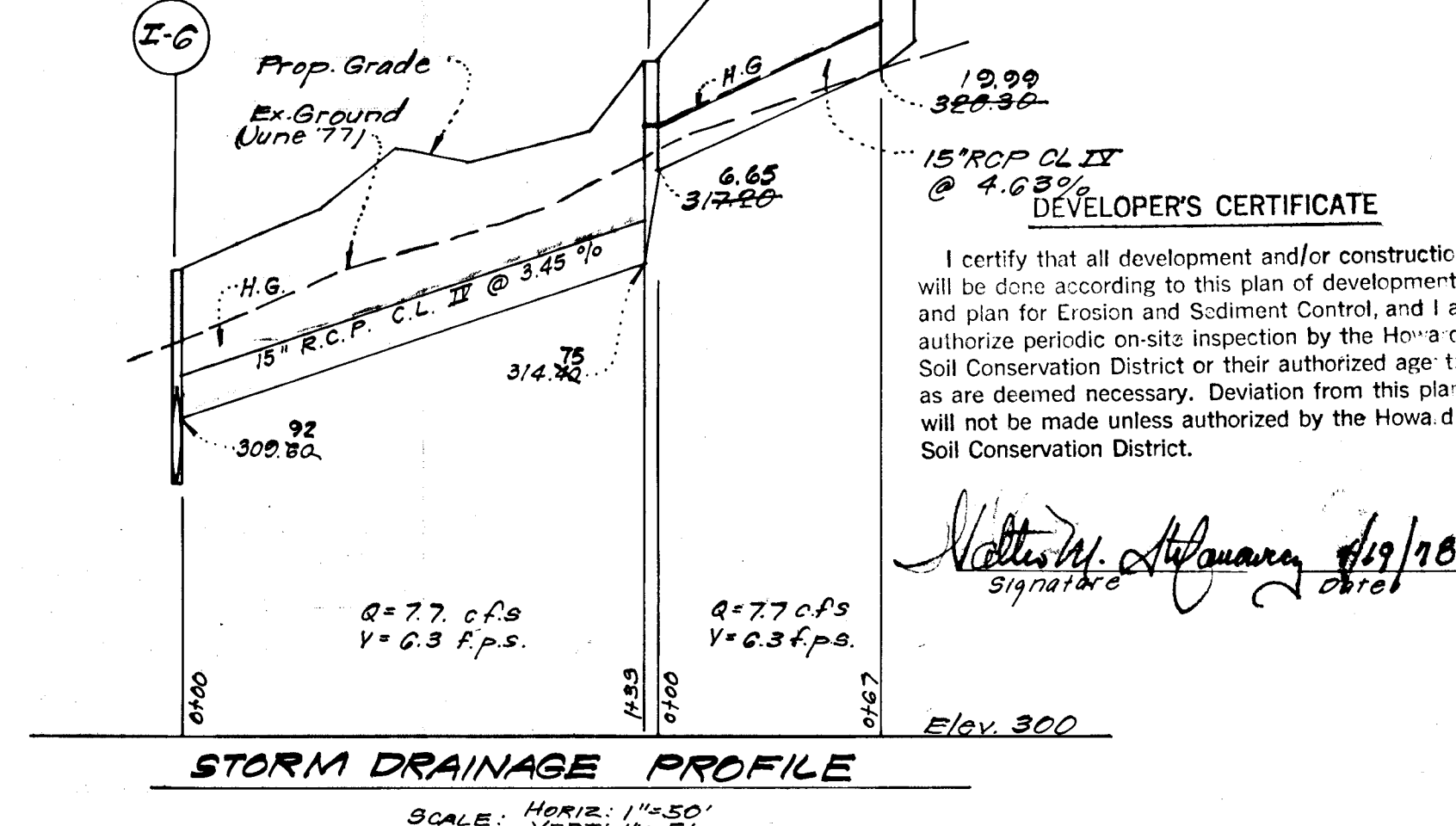
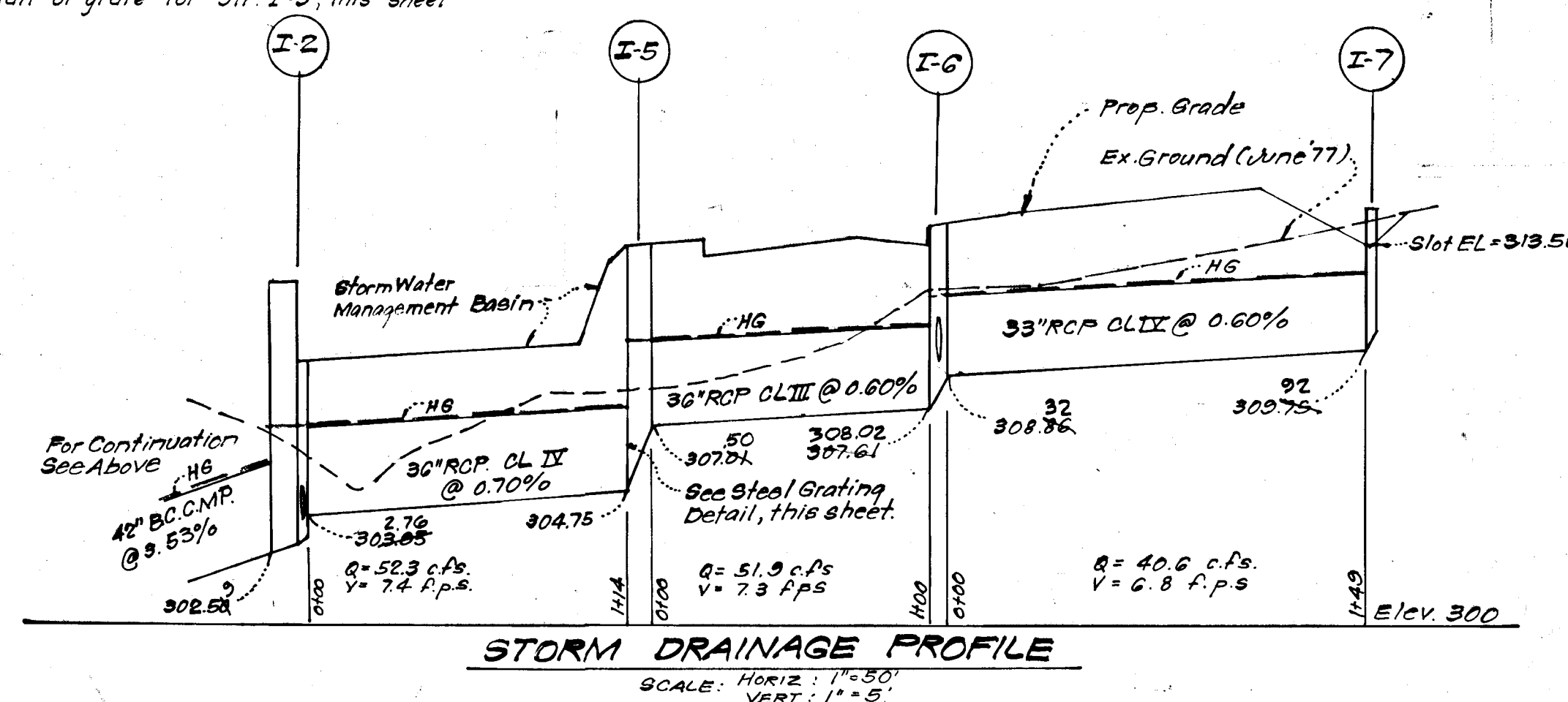
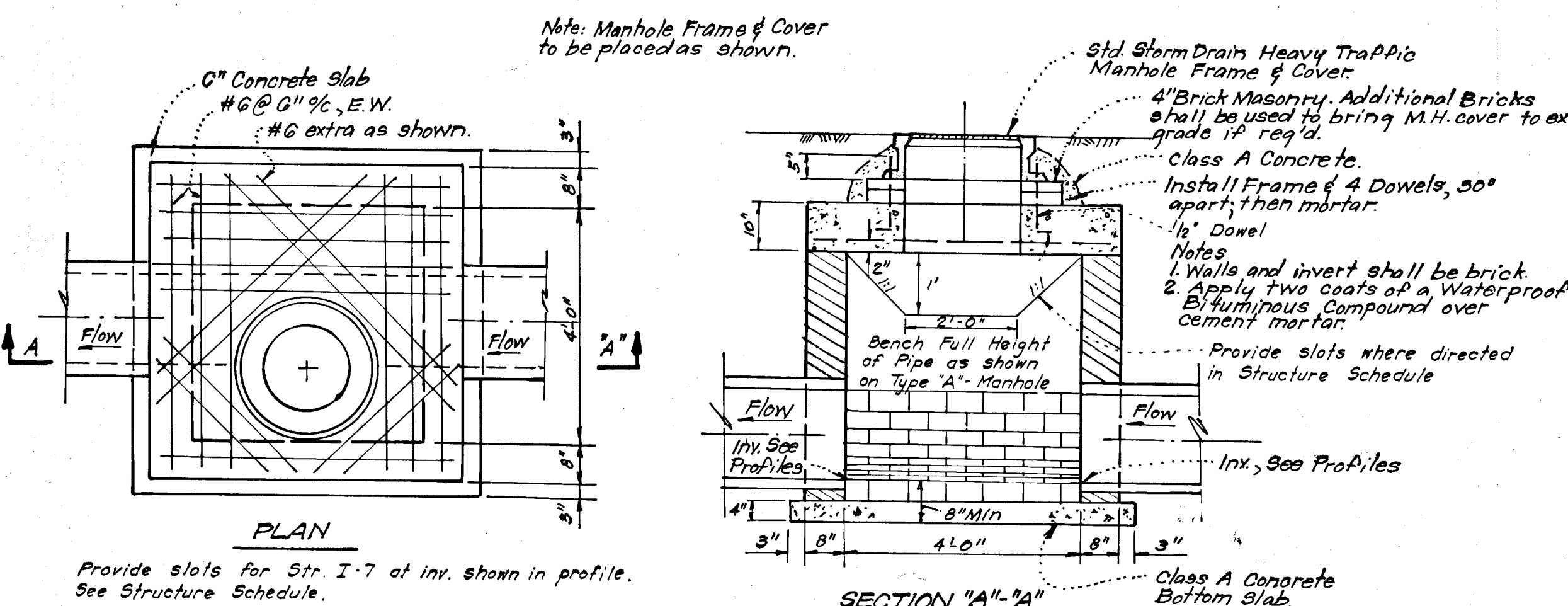
STRUCTURE SCHEDULE						
No.	TYPE	INV. IN.	INV. OUT.	TOP ELEVATION	REMARKS	LOCATION
				UPPER	LOWER	
I-50A	A-10 INLET	307.70	311.983	311.50	How. Co. Std. D-64 pg. 119 A W=2'6"	See Plan
S-1	"C" ENDWALL	298.20			How. Co. Std. D-52, pg. 107 Dia=48"	See Plan
I-2	SPECIAL STRUCTURE*	302.50	309.30	311.50	See det. sheet 7	See Plan
I-3	A-10 INLET	311.85	306.50	315.95	How. Co. Std. D-64 pg. 119 A W=2'6"	See Plan
I-4	A-10 INLET	312.85	315.95	315.78	How. Co. Std. D-64 pg. 119 A W=2'6"	See Plan
I-5	A-10 INLET #	307.80	314.75	313.80	How. Co. Std. D-64 pg. 119 A W=2'6"	See Plan
I-6	A-10 INLET	308.80	314.75	314.02	How. Co. Std. D-64 pg. 119 A W=2'6"	See Plan
I-7	B- Manhole **	312.85	312.85	5.10	See detail this sheet	See Plan
M-8	B- Manhole	317.80	314.40	320.65	See detail this sheet	See Plan
I-9	A-10 INLET	317.80	323.80	323.11	How. Co. Std. D-64 pg. 119 A W=2'6"	See Plan

PIPE SCHEDULE		
SIZE	TYPE	LENGTH
15"	RCP CL. IV	329 L.F.
36"	RCP CL. III	149 L.F.
36"	RCP CL. III	100 L.F.
42"	B.C.C.M.P. 12 Ga. 2 1/2" x 1/2" corrug.	122 L.F.
36"	RCP CL. IV	114 L.F.

Reviewed for... **HOWARD**... S.C.D. Name
and meets Technical Requirements
[Signature] Date
Signature
U.S. Soil Conservation Service

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

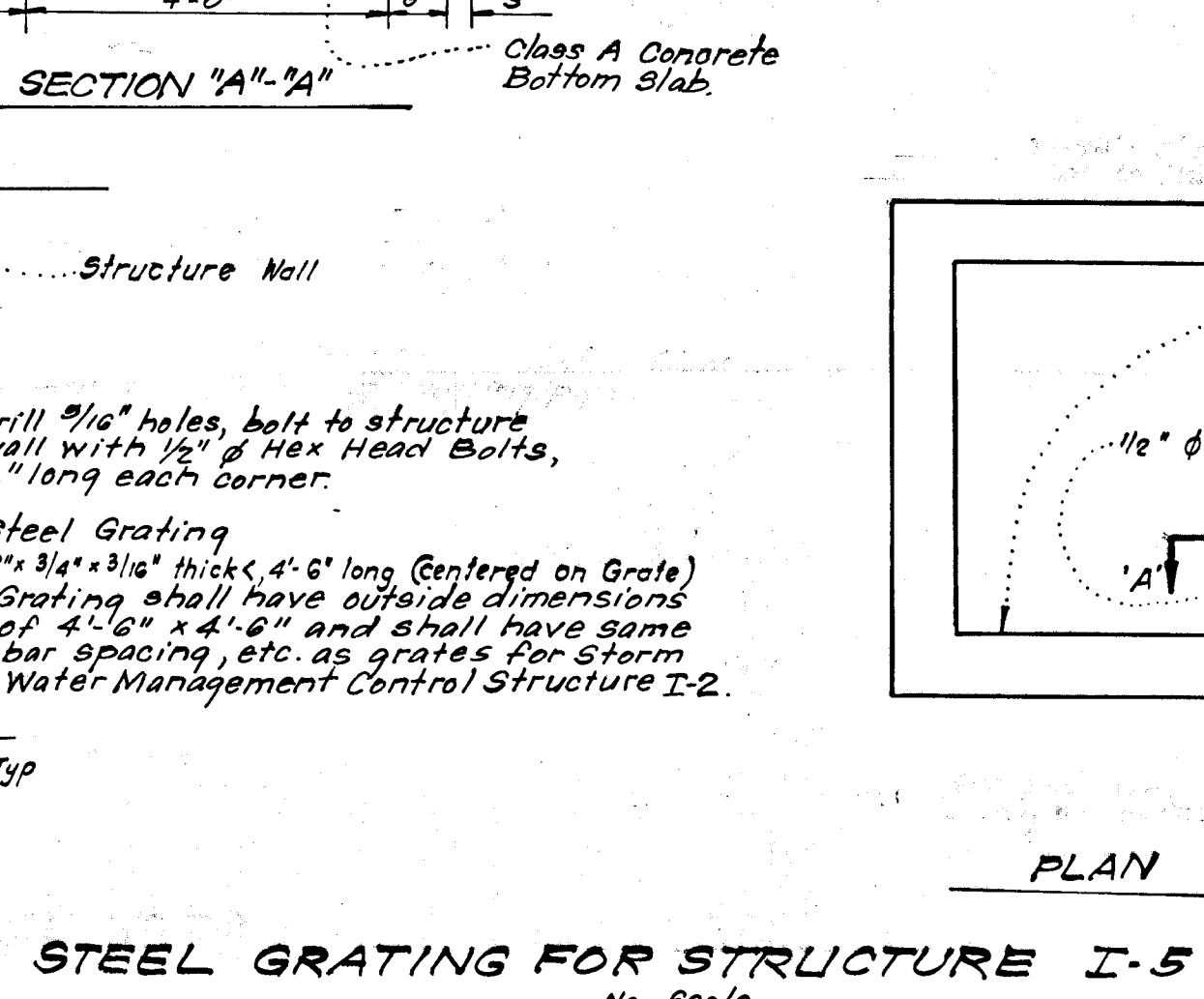
[Signature] Approved Date 8-2-78



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] Date 8/19/78



ORIGINAL AS-BUILT DWG. SIGNED BY WALTER PARK R.L.S. #5599 8-4-80.

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] Date 9-17-78
G. Nelson Clark



APPROVED: DEPARTMENT OF PUBLIC WORKS

[Signature] 8-14-78
CHIEF, BUREAU OF ENGINEERING DATE

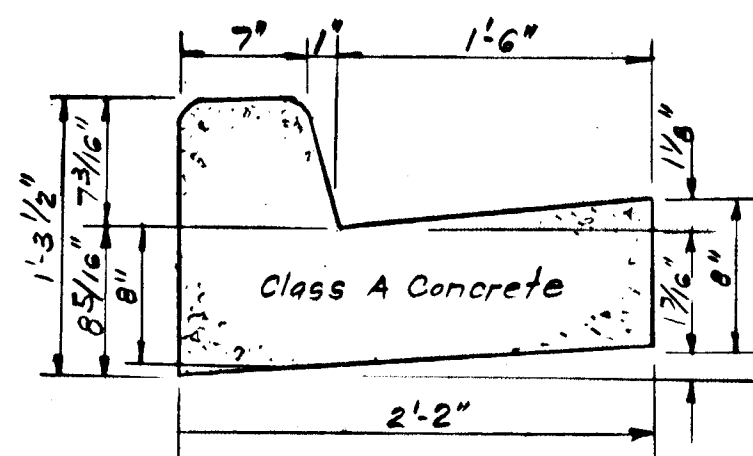
APPROVED: HOWARD COUNTY OFFICE OF PLANNING & ZONING

[Signature] 8-10-78
CHIEF, DIVISION OF LAND DEVELOPMENT DATE

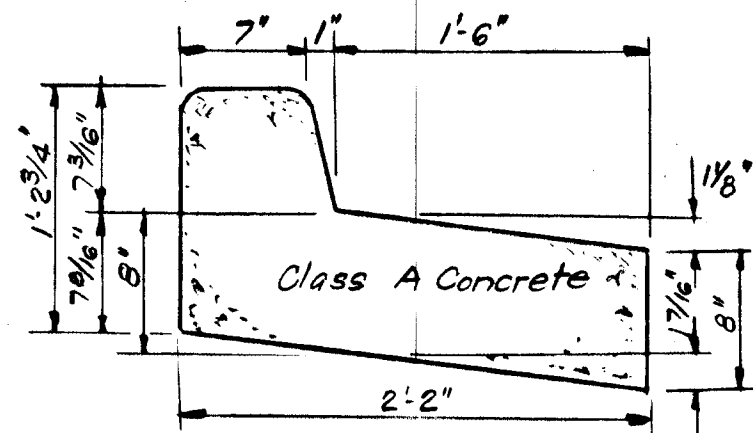
CLARK • FINEFROCK & SACKETT
ENGINEERS • PLANNERS • SURVEYORS
11315 LOCKWOOD DRIVE SILVER SPRING, MARYLAND 20904 (301) 593-3400

DESIGNED R.J.S.	ROAD CONSTRUCTION PLANS PROFILES AND DETAILS A RESUBDIVISION OF PARCEL "B"	SCALE As Shown
DRAWN K.I.W.	COLUMBIA VILLAGE OF OWEN BROWN SECTION 1, AREA 1 6th ELECTION DISTRICT	DRAWING 30 of 7
CHECKED R.J.S.	HOWARD COUNTY, MARYLAND	JOB NO.
DATE Apr, 1978	FOR: HOWARD RESEARCH & DEVELOPMENT CORP. The Rouse Company Building Columbia, Maryland 21024	FILE NO. 1231-D

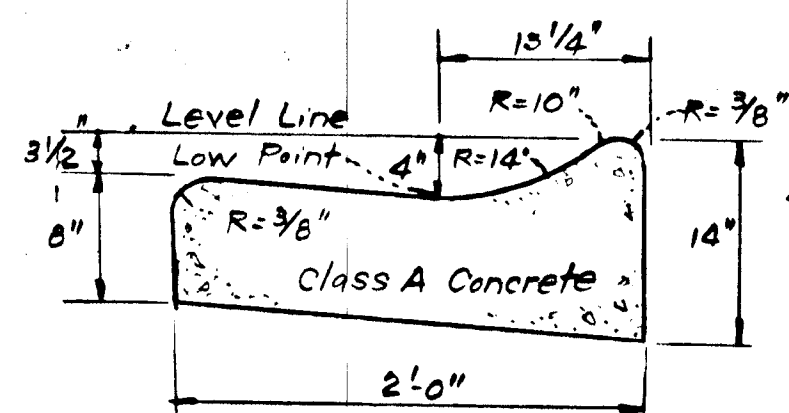
F-78-178



STANDARD 7" COMBINATION CURB & GUTTER
No Scale

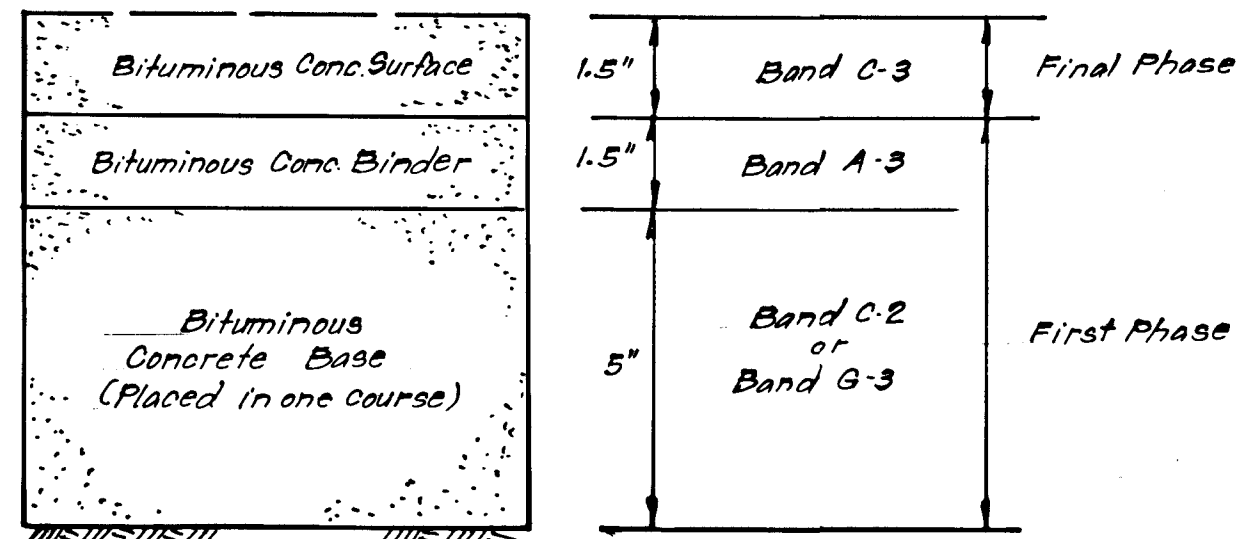


REVERSE 7" COMBINATION CURB & GUTTER
No Scale



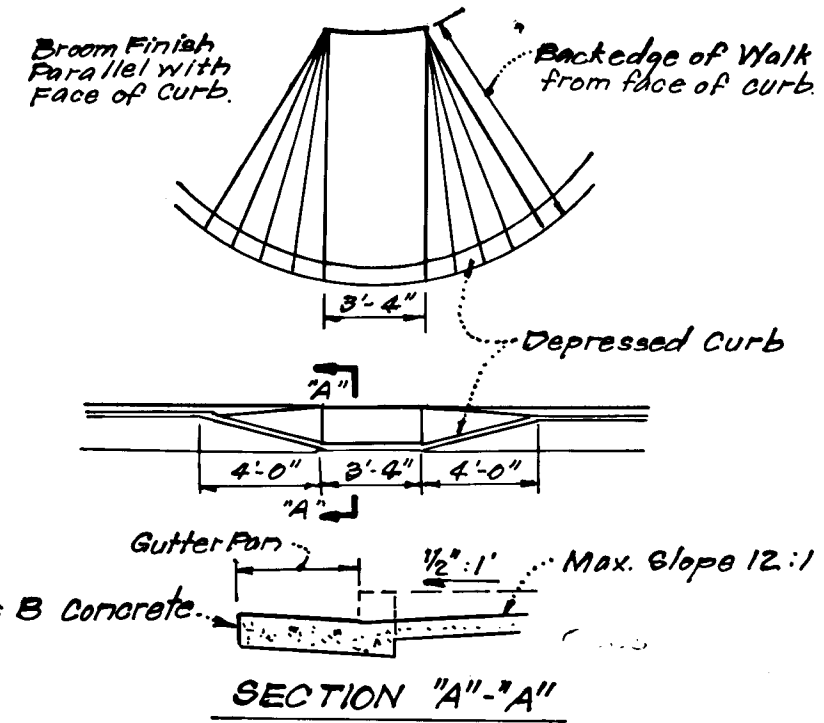
MODIFIED COMBINATION CURB & GUTTER
No Scale

Note: Various Curb & Gutter Sections to be used where shown in plan view. See legend sheet 2 of 7.

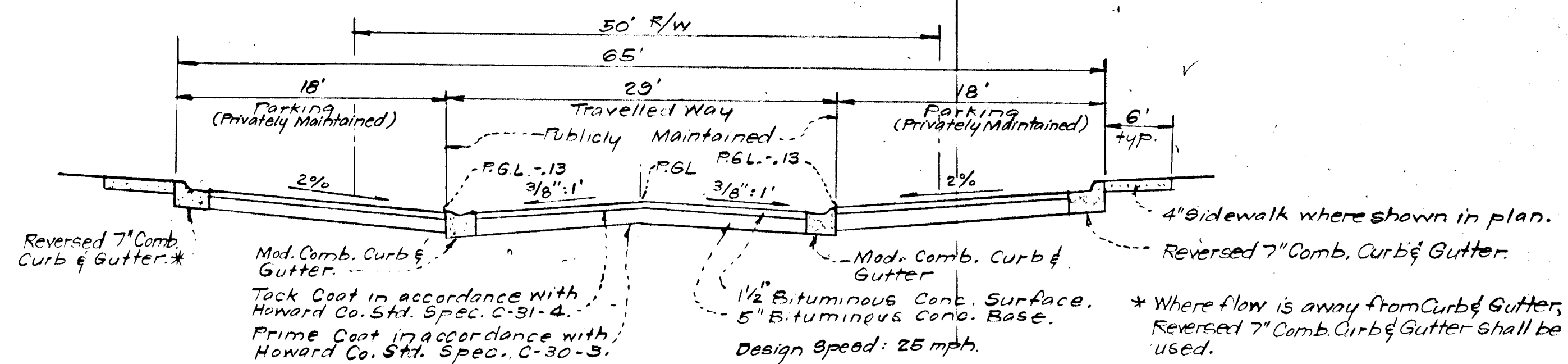


Clearing & Grading: Article C-1
Subgrade: Article C-2
Base Course: Article C-31, C-33
Binder Course: Article C-31
Surface Course: Article C-31

PAVING SECTION CRADLEROCK WAY
(SEE PLAN FOR LIMITS)
No Scale



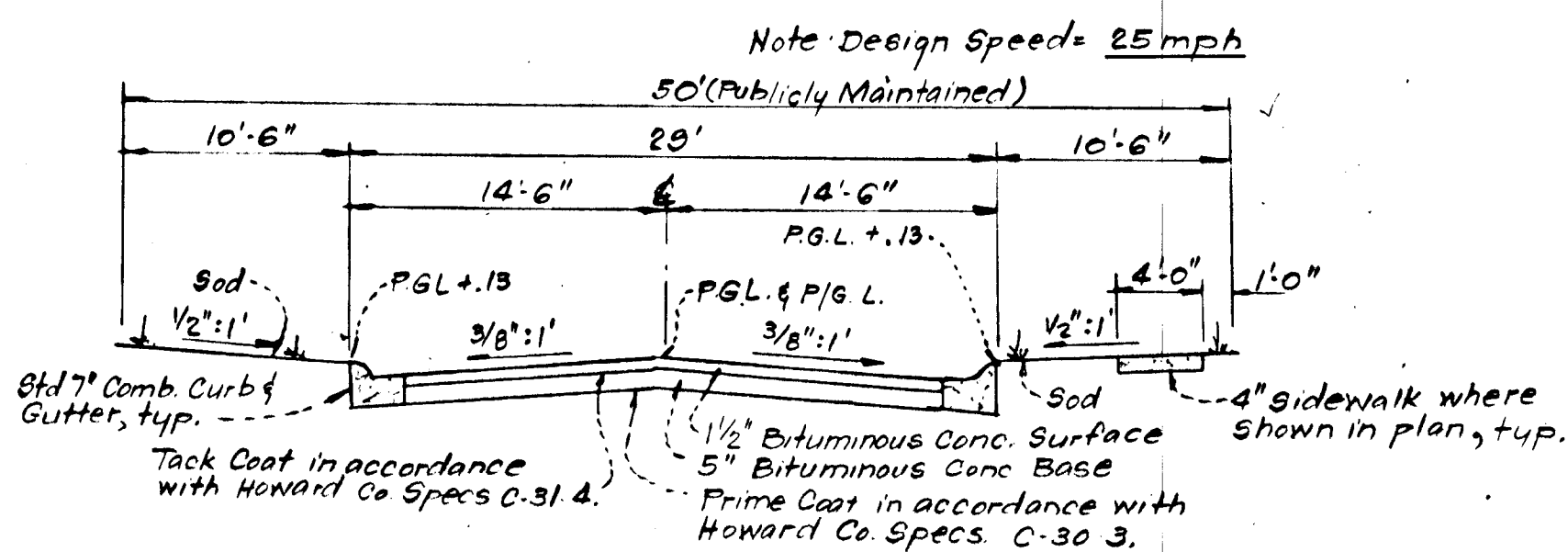
SIDEWALK RAMP DETAILS
No Scale



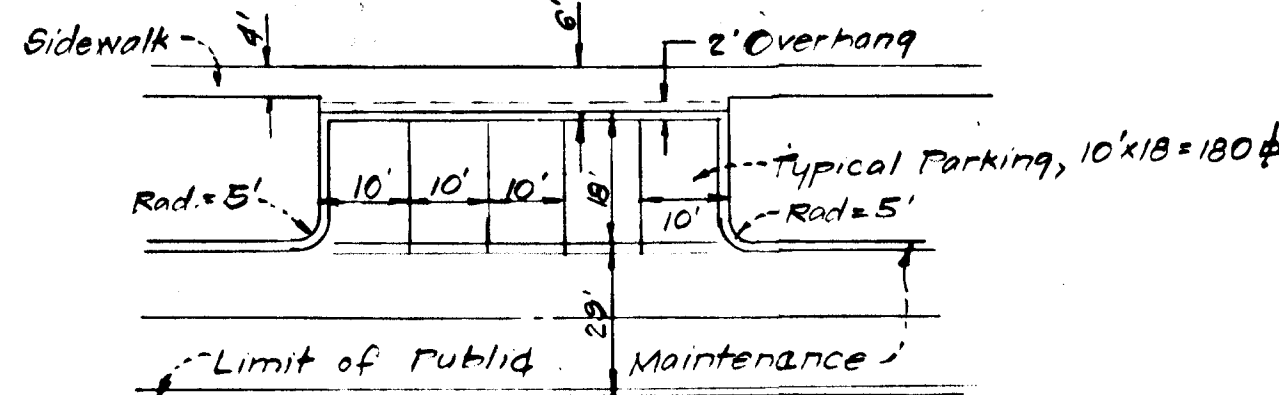
TYPICAL PAVING SECTION - WANING MOON WAY AND PRIVATE PARKING
(STA. 0+00 TO STA. 6+66.50)
No Scale

Note: See Plan View & Legend, sheet 2 of 6, for location of various curb & gutter sections.

Note: Parking to be provided where shown in plan.



TYPICAL PAVING SECTION QUIET HOURS (STA. 0+55 THRU 10+34.06)
No Scale



TYPICAL PARKING ADJACENT TO PUBLIC ROADS
No Scale

G-21-78
4-28-78

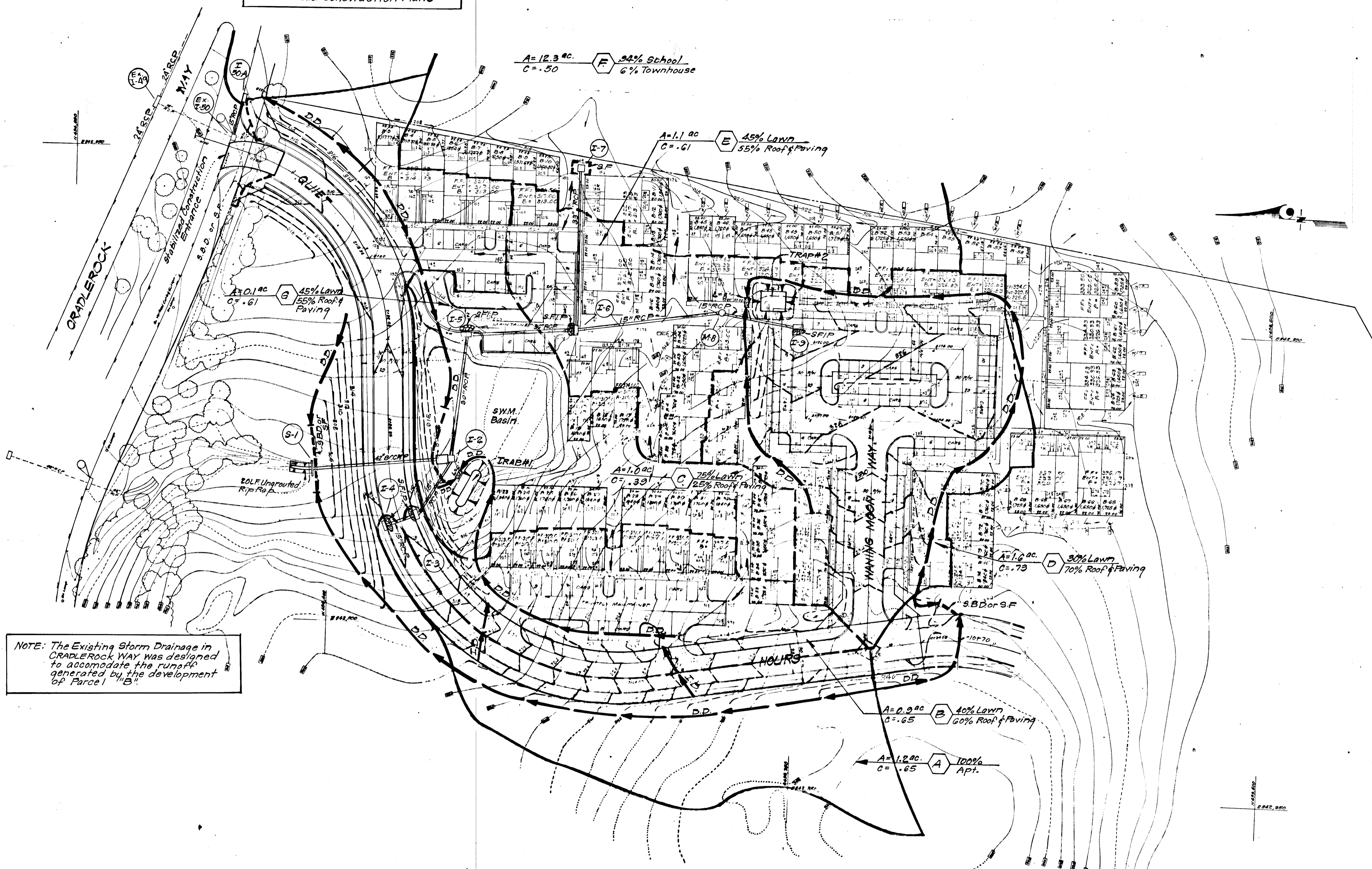
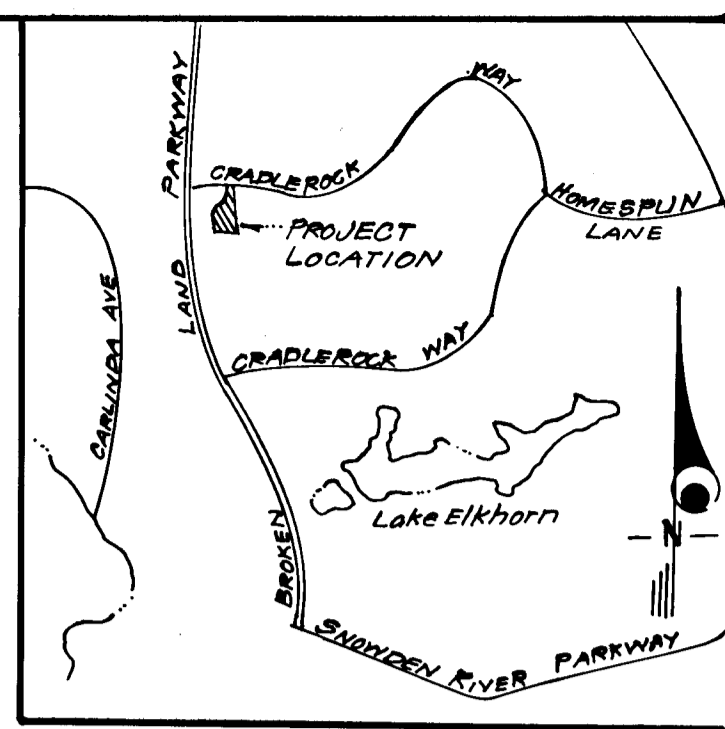
APPROVED: DEPARTMENT OF PUBLIC WORKS		8-14-78	
<i>W. O. Albert</i> CHIEF, BUREAU OF ENGINEERING		DATE	
APPROVED: HOWARD COUNTY OFFICE OF PLANNING & ZONING		8-10-78	
<i>John W. Madsen</i> CHIEF, Division of Land Development		DATE	
11315 LOCKWOOD DRIVE SILVER SPRING, MARYLAND 20904 (301) 593 3400			
DESIGNED	R.J.S.	ROAD CONSTRUCTION PLANS PAVING DETAILS A RESUBDIVISION OF PARCEL "B"	SCALE As Shown
DRAWN	K.I.W.	COLUMBIA	DRAWING 4 of 7
CHECKED	R.J.S.	VILLAGE OF OWEN BROWN SECTION 1 AREA 1 6th ELECTION DISTRICT HOWARD COUNTY, MARYLAND	JOB NO.
DATE	Apr, 1978	FOR: HOWARD RESEARCH & DEVELOPMENT CORP The Rouse Company Building Columbia, Maryland 21024	FILE NO. 1231-D



K.I.W.
447-78

#61
Sec. 1, A1 - Reamb. Parcel "B"

NOTE: See Drainage Area Map by Whitman Regardt & Associates, dated 5-30-72, for Village of Owen Brown S-1, A-1, Road Construction Plans



NOTE: The Existing Storm Drainage in CRADLEROCK WAY was designed to accommodate the runoff generated by the development of Parcel "B".

LEGEND

- 1. Contour Interval 2 Ft.
- 2. Existing Contour
- 3. Prop. Contour (for Road Construction)
- 4. Prop. Contour (for ultimate drainage area map)
- 5. Prop. Storm Drain
- 6. Diversion Dike
- 7. Straw Bale Dike or Silt Fence
- 8. Stone Filter Inlet Protection
- 9. Stabilized Construction Entrance

Reviewed for... HOWARD... S.C.D.
Name
and meets Technical Requirements
P. Wagner Regardt 8-3-78
Signature Date
U.S. Soil Conservation Service

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

DEVELOPER'S CERTIFICATE

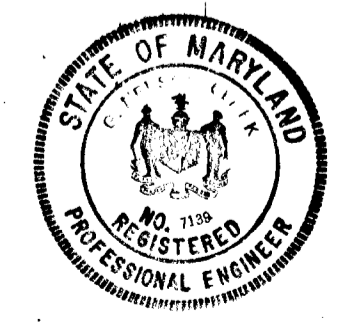
I certify that all development and/or construction will be done according to this plan of development and plan for Erosion and Sediment Control, and I authorize periodic on-site inspection by the Howard Soil Conservation District or their authorized agents as are deemed necessary. Deviation from this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

Walter M. Stefanowicz 4/12/78
Signature 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 4-17-78
Signature Date



APPROVED: DEPARTMENT OF PUBLIC WORKS		7-21-78 8-14-78	
<u>W.D. Sackett</u> CHIEF, BUREAU OF ENGINEERING		DATE	
APPROVED: HOWARD COUNTY OFFICE OF PLANNING & ZONING		7-21-78 8-10-78	
<u>W. M. Mearns</u> CHIEF, DIVISION OF LAND DEVELOPMENT		DATE	
CFE CLARK FINEFROCK & SACKETT ENGINEERS PLANNERS SURVEYORS			
11315 LOCKWOOD DRIVE		SILVER SPRING, MARYLAND 20904 (301) 993 3400	
DESIGNED R.U.S.	ROAD CONSTRUCTION PLAN SEDIMENT & EROSION CONTROL PLAN AND DRAINAGE AREA MAP A RESUBDIVISION OF PARCEL "B"		SCALE 1"=50'
DRAWN K.I.W.	COLUMBIA		DRAWING 50/7
CHECKED R.U.S.	VILLAGE OF OWEN BROWN SECTION AREA 1 6th ELECTION DISTRICT HOWARD COUNTY, MARYLAND		
DATE Apr, 1978	FOR: HOWARD RESEARCH & DEVELOPMENT CORP. The Rouse Company Building Columbia, Maryland, 21044		FILE NO. 1231-D

#61
Blank of Parcel #B