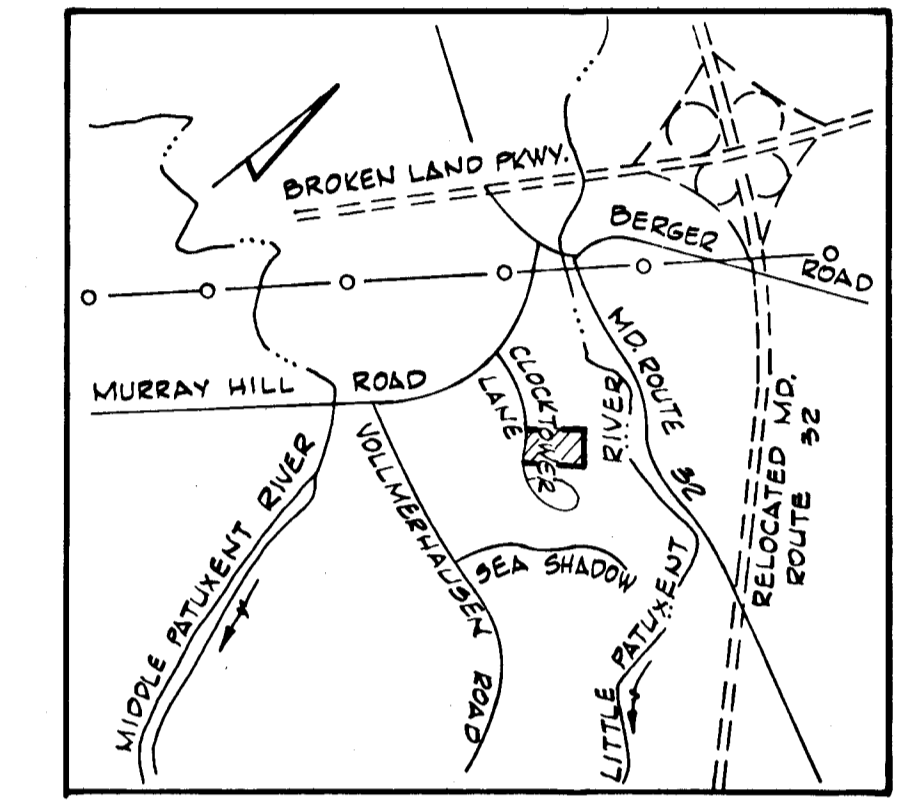


DEPARTMENT OF PUBLIC WORKS  
*William E. Riley* 7/30/82  
 CHIEF, BUREAU OF ENGINEERING  
 OFFICE OF PLANNING AND ZONING  
*John W. Muschman* 7-23-82  
 CHIEF, DIVISION OF LAND DEVELOPMENT AND ZONING ADMINISTRATION DATE

# COLUMBIA

HOWARD COUNTY, MARYLAND  
 6<sup>TH</sup> ELECTION DISTRICT

## ROAD CONSTRUCTION PLANS VILLAGE OF KINGS CONTRIVANCE SECTION 3 AREA 1 RESUBDIVISION OF A PORTION OF PARCEL "B-1" LOT B-115 TO LOT B-175



VICINITY MAP  
 Scale: 1" = 2,000'

### STORM WATER MANAGEMENT

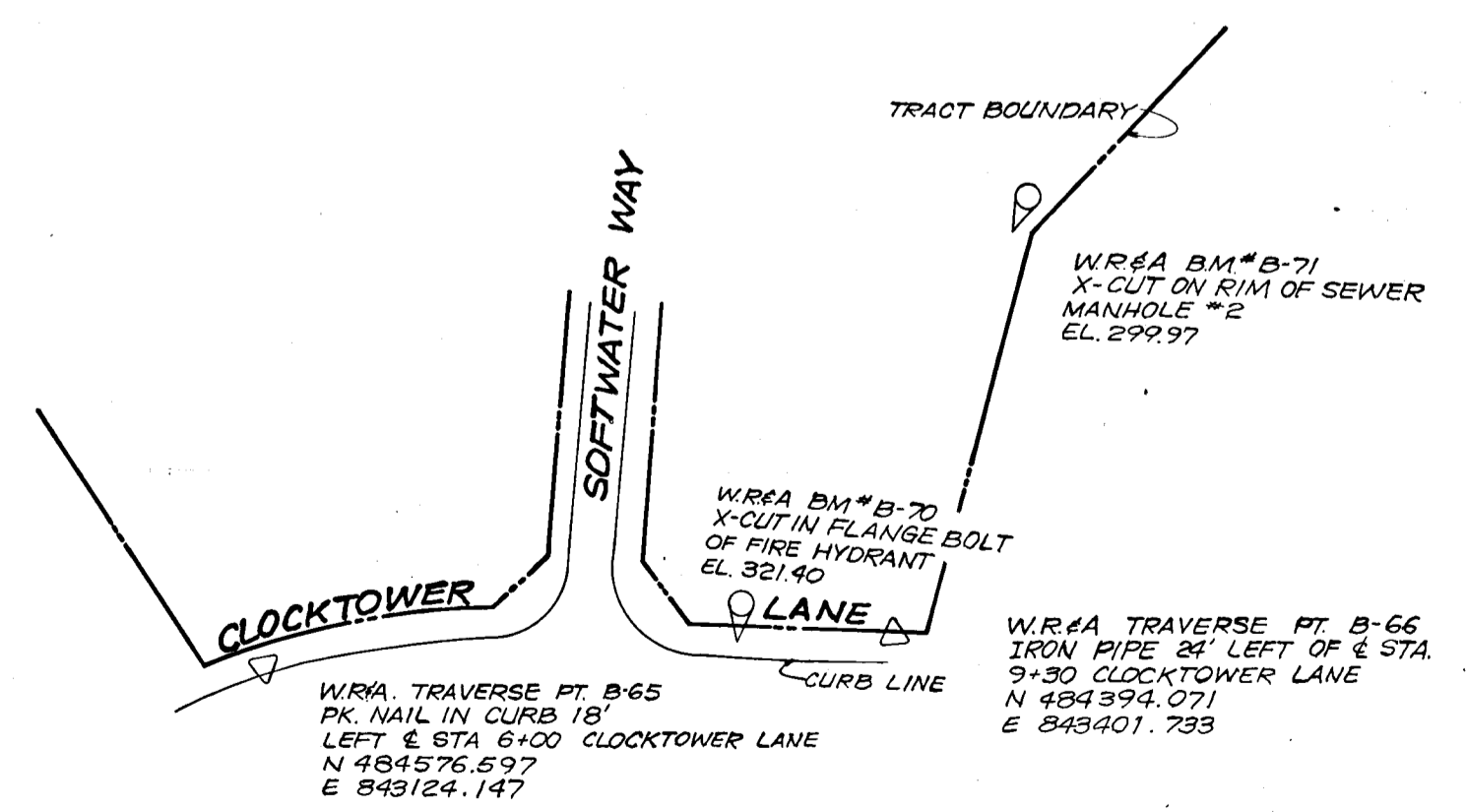
Storm Water Management Ponds #1, #3 and #4 have been designed together to provide the storage required for Parcel "B-1". See hydrologic and hydraulic computations on file in the Department of Public Works under F-79-44C. Also see Road Construction Drawings for the Village of Kings Contrivance Section 3 Area 1. Pond #1 is shown on Sheet 25 of 27 File F-79-203C, Ponds #3 and #4 are shown on Sheets 35 and 36 of 37 File F-79-44C respectively.

SHEET INDEX	
NO.	DESCRIPTION
1	TITLE SHEET
2	PLAN AND PROFILE - RAINLEAF COURT AND PRIVATE ROAD
3	DRAINAGE AREA MAP AND STORM DRAIN PROFILES
4	ROAD AND STORM DRAIN DETAILS
5	SEDIMENT CONTROL PLAN AND DETAILS
6	SEDIMENT CONTROL DETAILS AND NOTES

### GENERAL NOTES

- All work shall be done in accordance with Howard County Standards Specifications and Details for Construction.
- All utility companies must be notified 24 hours in advance of any construction.
- Secondary residential streets are designed for 30 mph traffic speed in accordance with AASHTO standards.
- All inlets shall be Howard County Standard unless otherwise shown. All "A" inlets shall be depressed.
- Storm drain trenches within road rights-of-ways shall be backfilled and compacted in accordance with Howard County Road Code.
- Any damage to public rights-of-ways or paving will be corrected at the developer's expense.
- Approximate location of existing utilities are shown. The contractor shall take all necessary precautions to protect existing utilities and to maintain uninterrupted service. Any damage incurred due to contractor's operations shall be repaired immediately at the Contractor's expense.
- The Contractor shall test pit existing utilities where directed by the Engineer a minimum of two weeks in advance of any construction.
- Contractor to notify the Howard County Dept. of Inspections and Permits at least 3 days before starting work shown on these drawings. Telephone 292-2436.

PLAN SUBJECT TO V.P. 82-08



BENCHMARKS AND REFERENCES  
 NO SCALE

AS-BUILT APRIL 21, 1983  
 AS-BUILT SURVEY CERTIFIED BY  
 KENNETH A. MCCORD, MD, PROFESSIONAL ENGINEER No. 1974

Rev Date	Rev No	Revision Description
7/15/82	1	As Per DPW Comments

DEVELOPER HOWARD HOMES BUILDING CO., INC.  P.O. BOX 802 COLUMBIA, MARYLAND		WHITMAN, REQUARDT & ASSOCIATES ENGINEERS 2315 ST. PAUL STREET BALTIMORE, MARYLAND 21218 <i>Kenneth A. McCord</i> Registered Engineer No. 1974
--	--	---

#445

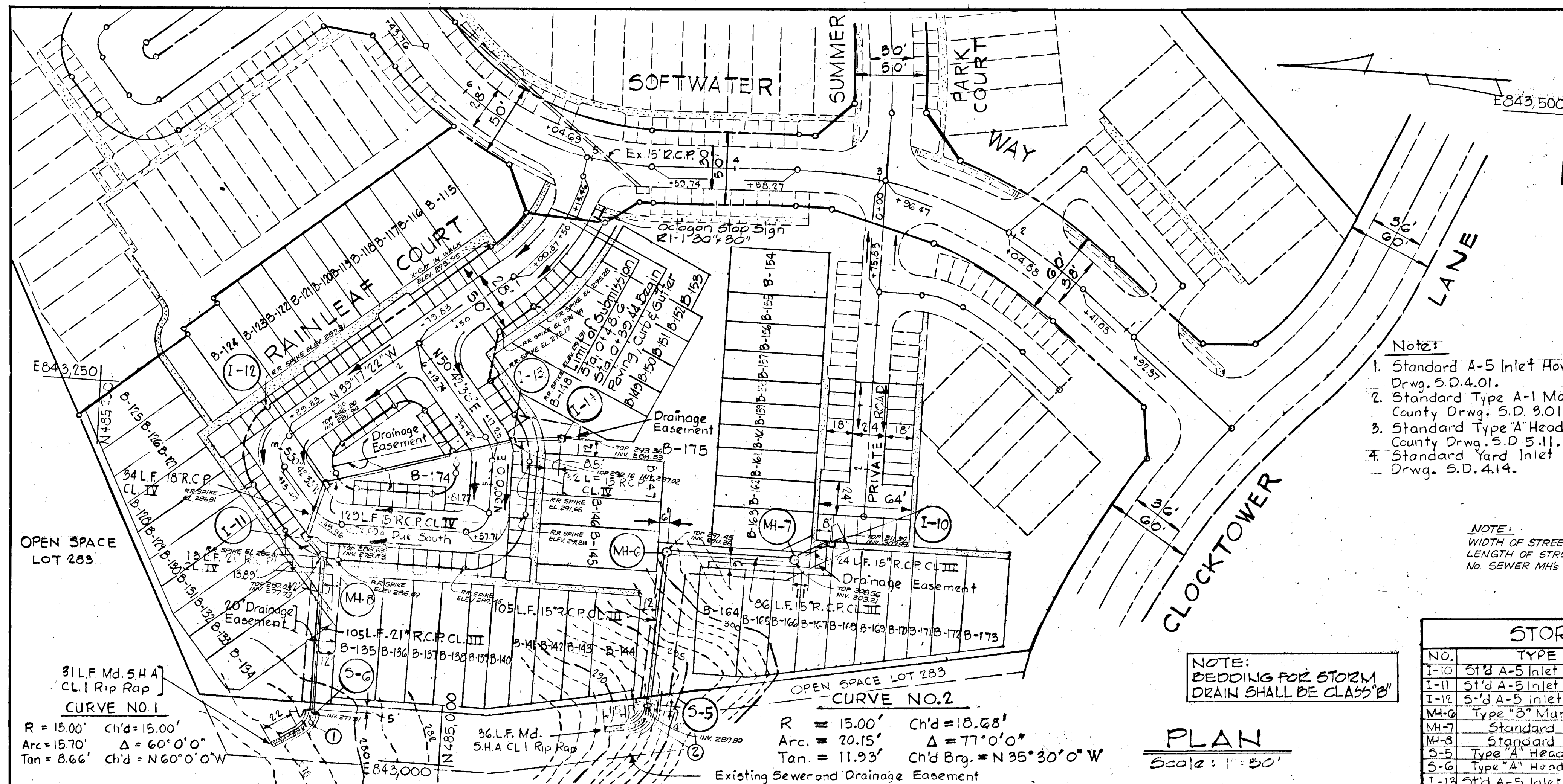


**± CURVE DATA**

PC. 0+13.46 TO PT. 1+00.37	Δ = 89°50'23" T = 45.90
	R = 125.00' Chd = 85.18
	L = 86.92' Chd Brg = N59°12'33"W
PC. 2+59.83 TO PT. 3+13.39	Δ = 90°00'00" T = 15.00'
	R = 15.00' Chd = 21.21'
	L = 23.56' Chd Brg = N84°17'22"E
PC. 3+49.96 TO PT. 3+72.09	Δ = 50°42'38" T = 11.85'
	R = 15.00' Chd = 21.41'
	L = 22.13' Chd Brg = S25°21'19"W
PC. 4+57.71 TO PT. 4+81.27	Δ = 90°00'00" T = 15.00'
	R = 15.00' Chd = 21.21'
	L = 23.56' Chd Brg = S45°0'0"E
PC. 5+17.28 TO PT. 5+34.42	Δ = 90°17'22" T = 8.92'
	R = 25.00' Chd = 16.81'
	L = 17.14' Chd Brg = N70°21'19"E

NOTE:  
 For Softwater Way and Summer Park Court profiles and storm drains, see Road Construction Drawings for Village of Kings Contrivance, Section 3 Area 1, F-82-53 and F-82-59 by Whitman Reardon and Associates.

7/15/82	1	As Per D.P.W. Comments
Rev. Date	Rev. No.	Revision Description
<b>COLUMBIA</b>		
6TH ELECTION DISTRICT HOWARD COUNTY, MARYLAND		
OWNER AND DEVELOPER HOWARD HOMES BUILDING CO., INC. P.O. BOX 802 COLUMBIA, MARYLAND		
PROJECT AREA VILLAGE OF KINGS CONTRIVANCE SECTION 3 AREA 1 LOTS B-115 THRU B-175 A RESUBDIVISION OF A PORTION OF PARCEL B-1		
PROJECT TITLE PLAN AND PROFILE RAINLEAF COURT & PRIVATE ROAD		
SCALE: AS SHOWN DATE		
WHITMAN, REARDON & ASSOCIATES ENGINEERS BALTIMORE, MARYLAND 21218		



PLAN  
 DATE: \_\_\_\_\_  
 BY: \_\_\_\_\_  
 CHECKED: \_\_\_\_\_  
 APPROVED: \_\_\_\_\_

PROFILE  
 DATE: \_\_\_\_\_  
 BY: \_\_\_\_\_  
 CHECKED: \_\_\_\_\_  
 APPROVED: \_\_\_\_\_

- NOTE:
- Standard A-5 Inlet Howard County Drwg. S.D. 4.01.
  - Standard Type A-1 Manhole, Howard County Drwg. S.D. 3.01.
  - Standard Type A' Headwall, Howard County Drwg. S.D. 5.11.
  - Standard Yard Inlet Howard County Drwg. S.D. 4.14.

NOTE:  
 WIDTH OF STREET - 28'  
 LENGTH OF STREET - 614'  
 NO SEWER MHs IN STREET R/W

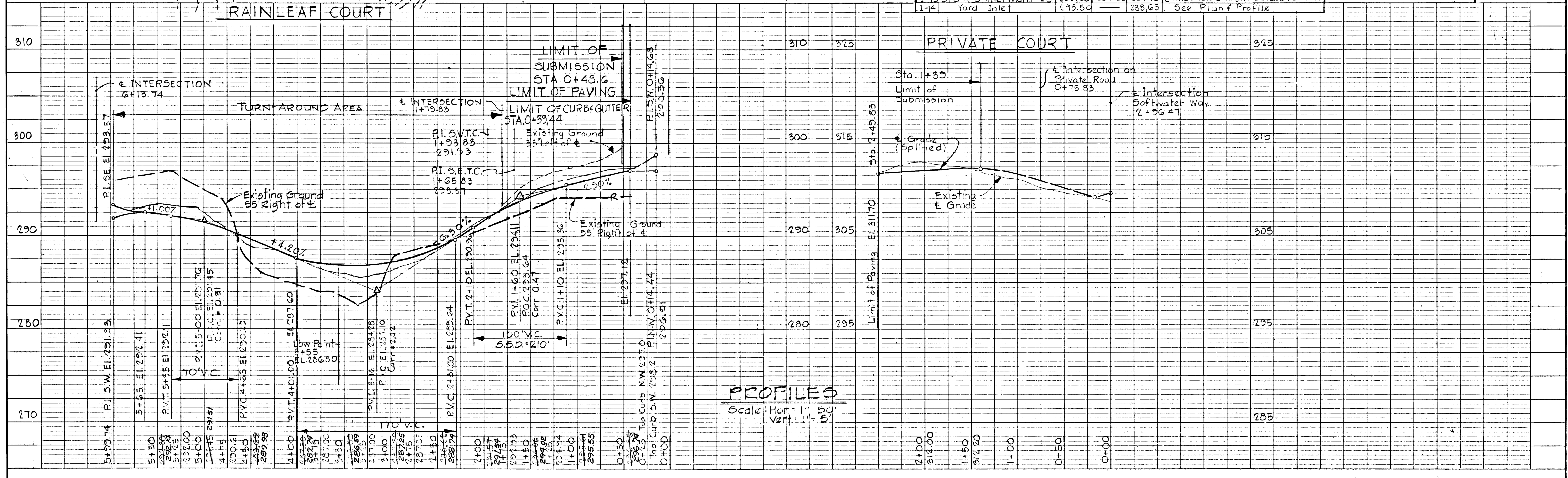
AS-BUILT APRIL 21, 1983  
 AS-BUILT SURVEY CERTIFIED BY  
 KENNETH A. MCCORD, MD. PRO-  
 FESSIONAL ENGINEER No. 1974

NOTE:  
 BEDDING FOR STORM DRAIN SHALL BE CLASS 'B'

PLAN  
 Scale: 1" = 50'

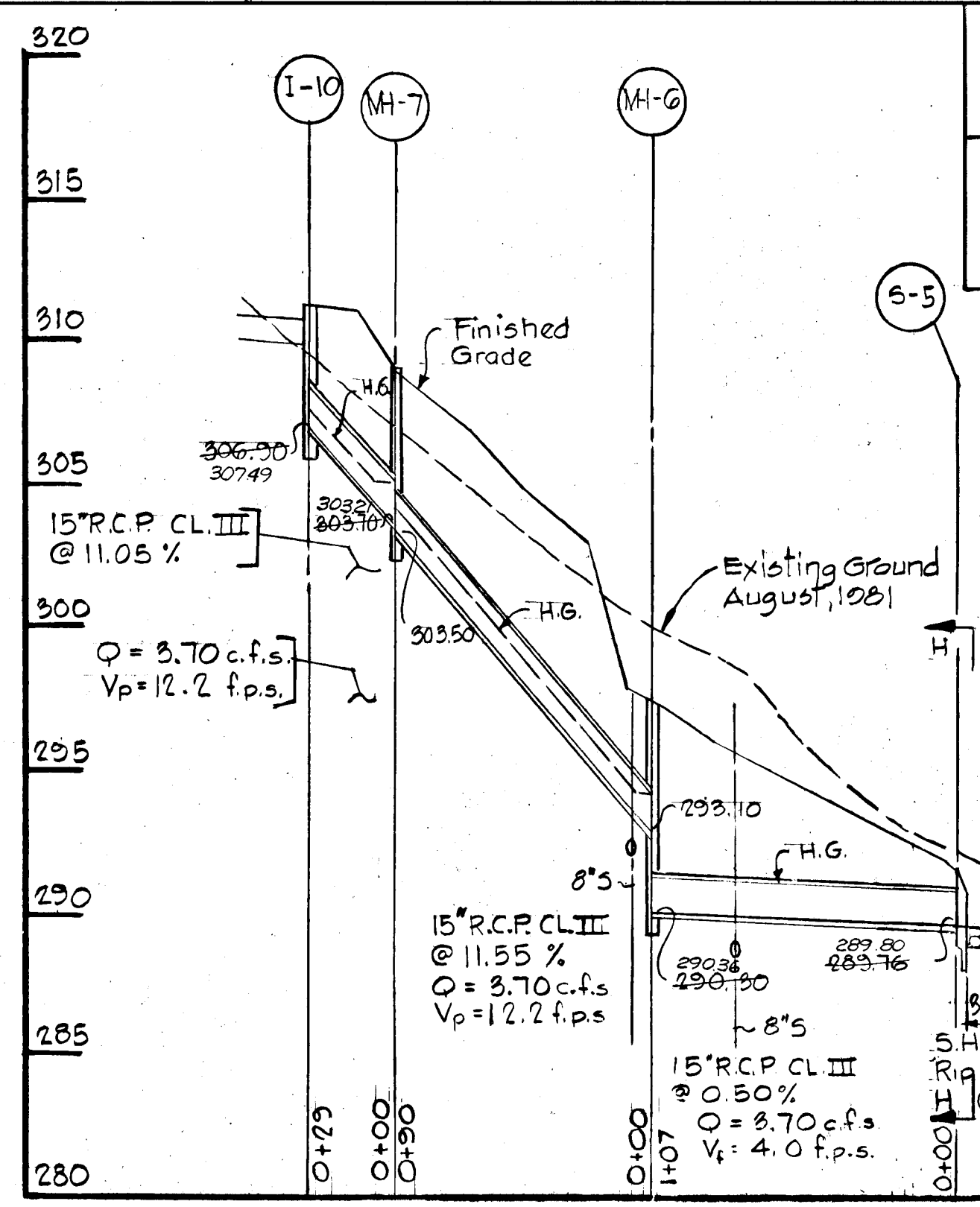
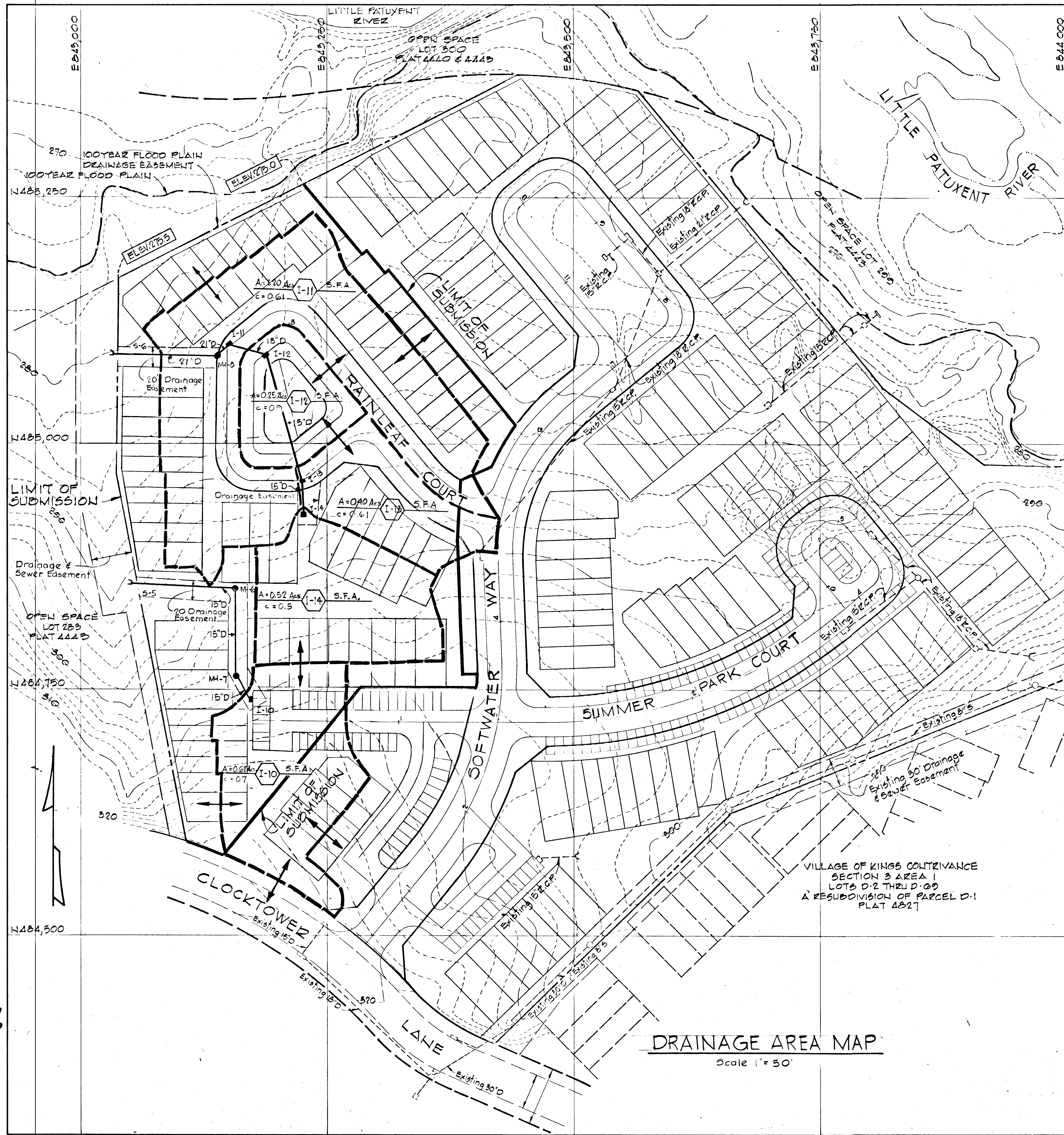
**STORM DRAIN STRUCTURE SCHEDULE**

NO.	TYPE	TOPELEV.	INV. IN.	INV. OUT.	LOCATION
I-10	Std A-5 Inlet width = 2.5'	211.50	210.30	210.30	See Plan & Profile
I-11	Std A-5 Inlet width = 2.5'	206.70	206.54	206.54	See Special Subout Detail
I-12	Std A-5 Inlet width = 2.5'	206.60	206.50	206.50	Inlet 15.32' Left & Sta. 3+42.06
MH-6	Type "B" Manhole	211.85	213.10	213.10	See Plan & Profile
MH-7	Standard Manhole	208.50	208.70	208.50	See Plan & Profile
MH-8	Standard Manhole	251.10	270.41	271.97	See Plan & Profile
S-5	Type "A" Headwall	231.20	283.84	283.84	See Plan & Profile
S-6	Type "A" Headwall	201.70	271.52	271.52	See Plan & Profile
I-13	Std A-5 Inlet width = 2.5'	292.25	287.36	287.16	Inlet 19.92' Right & Sta. 5+27.42
I-14	Yard Inlet	213.50	288.65	288.65	See Plan & Profile

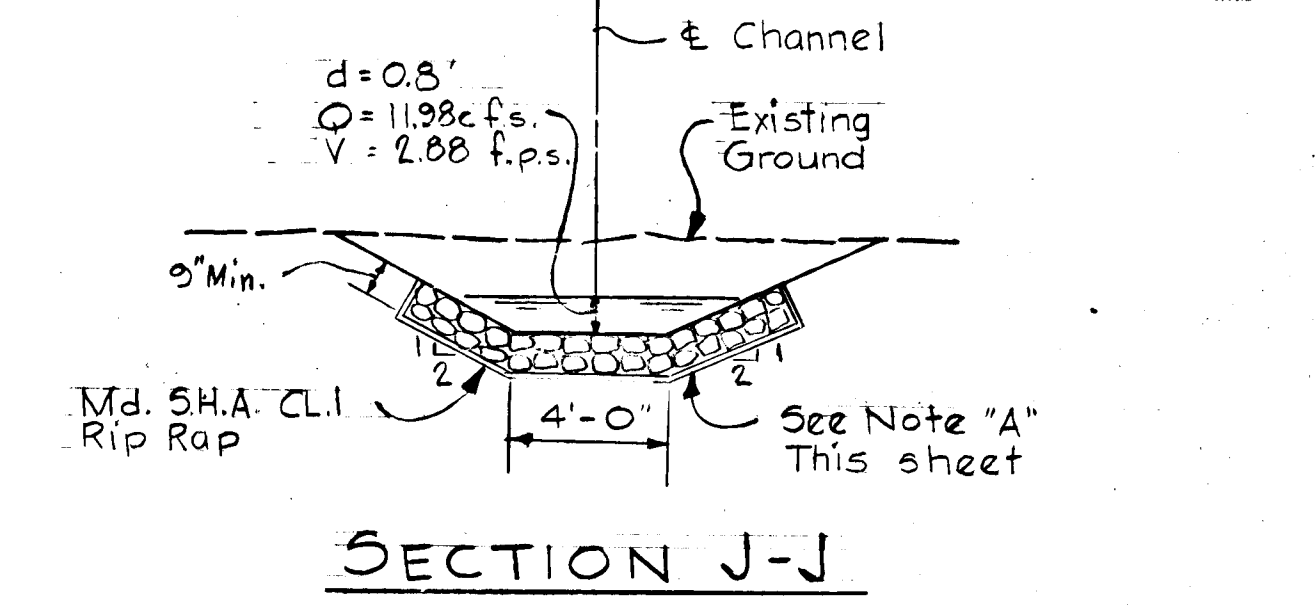
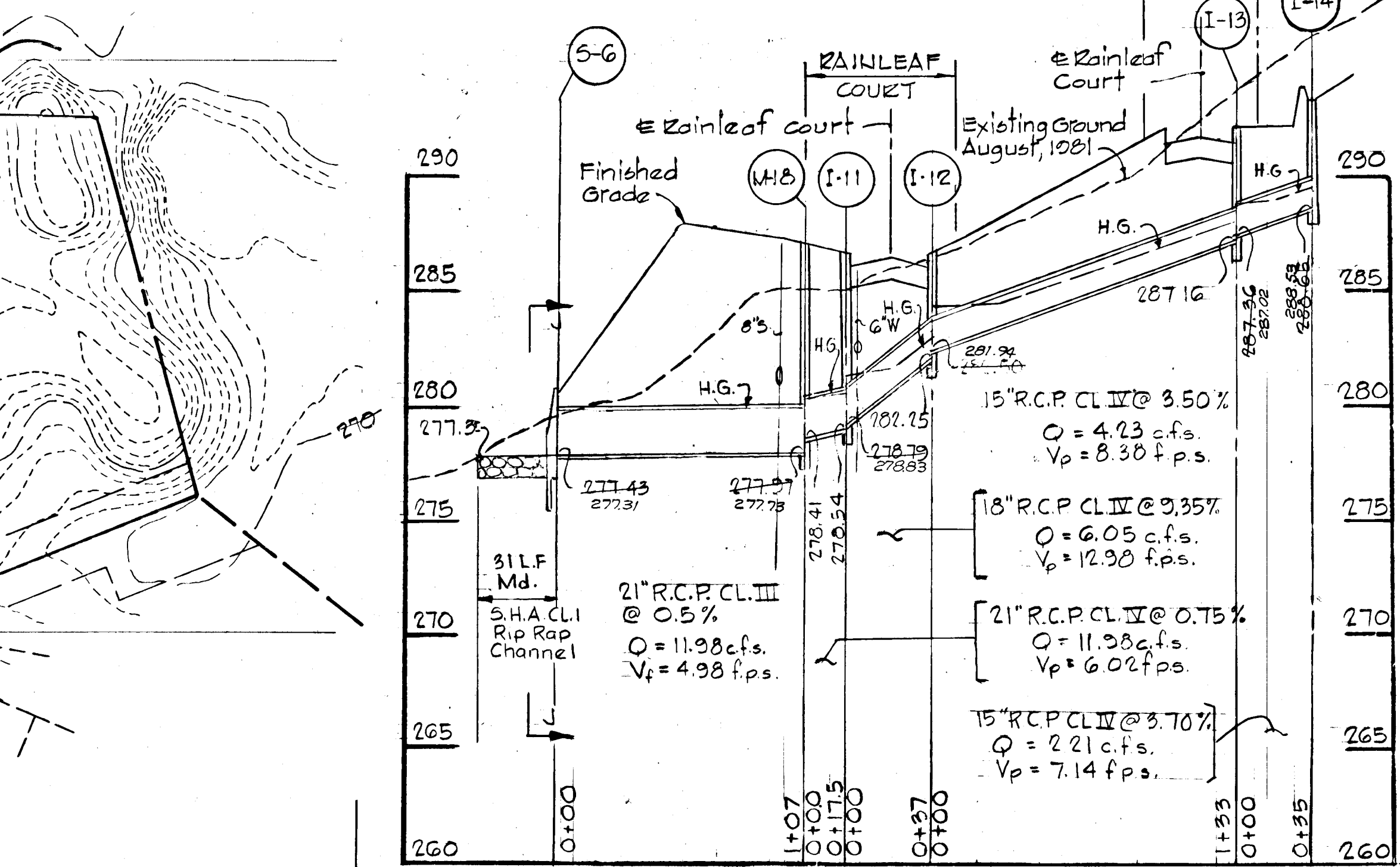
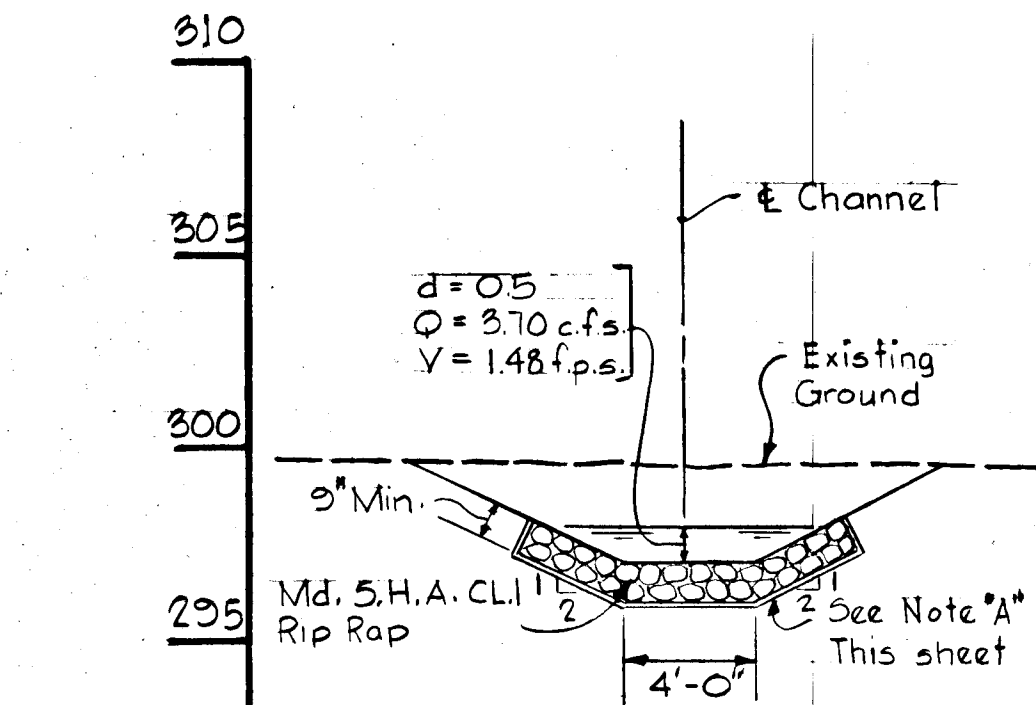


PROFILES  
 Scale: Hor. 1" = 50'  
 Vert. 1" = 5'





DEPARTMENT OF PUBLIC WORKS  
*Arleen E. Ray* 7-30-82  
 CHIEF, BUREAU OF ENGINEERING  
 OFFICE OF PLANNING & ZONING  
*John W. Murrain* 7-28-82  
 CHIEF, DIVISION OF LAND DEVELOPMENT DATE  
 AND ZONING ADMINISTRATION



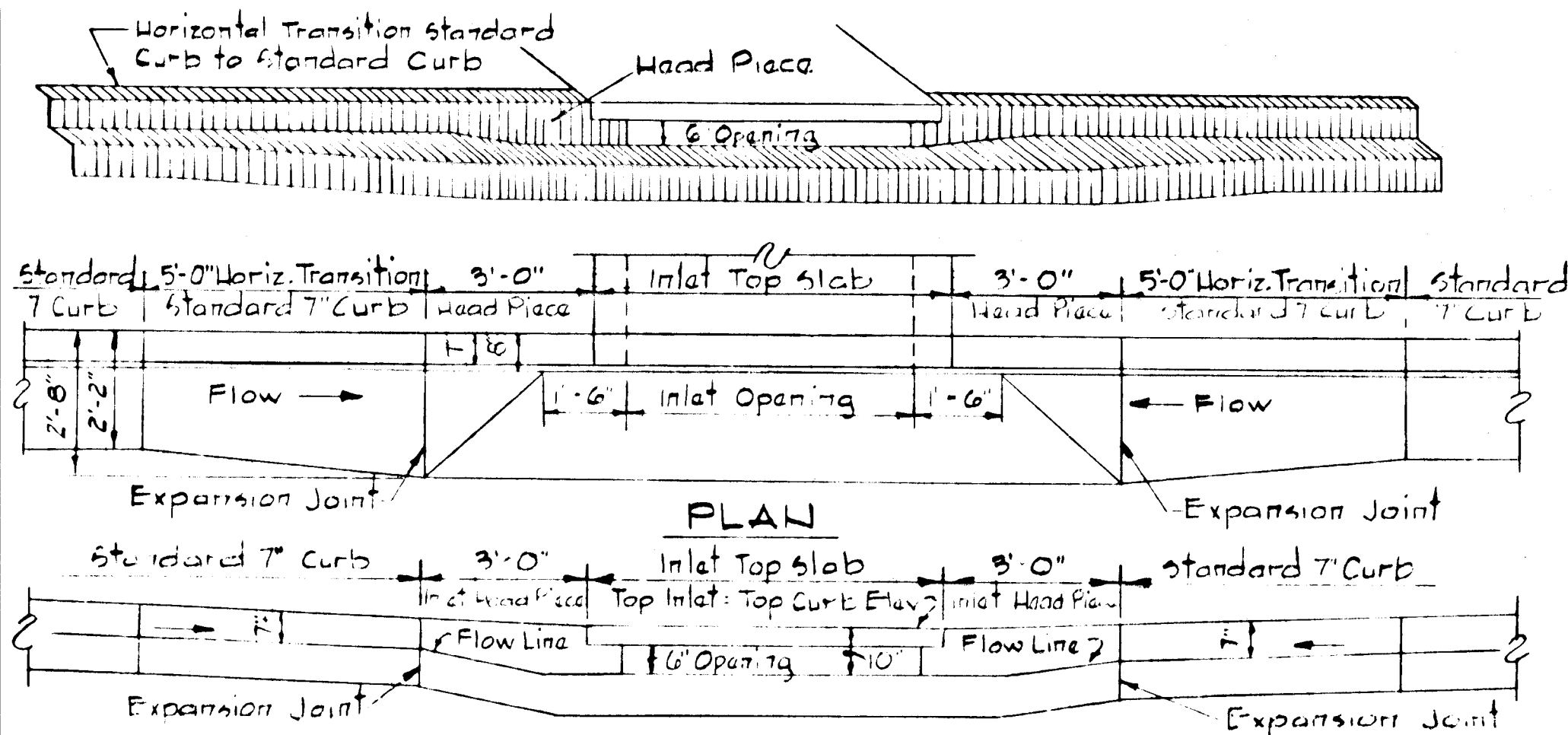
Note: A  
 Plastic Filter Cloth shall be bedded and smooth surfaced and anchored with steel pins before placement of Rip Rap

DRAINAGE AREA MAP  
 Scale 1" = 50'

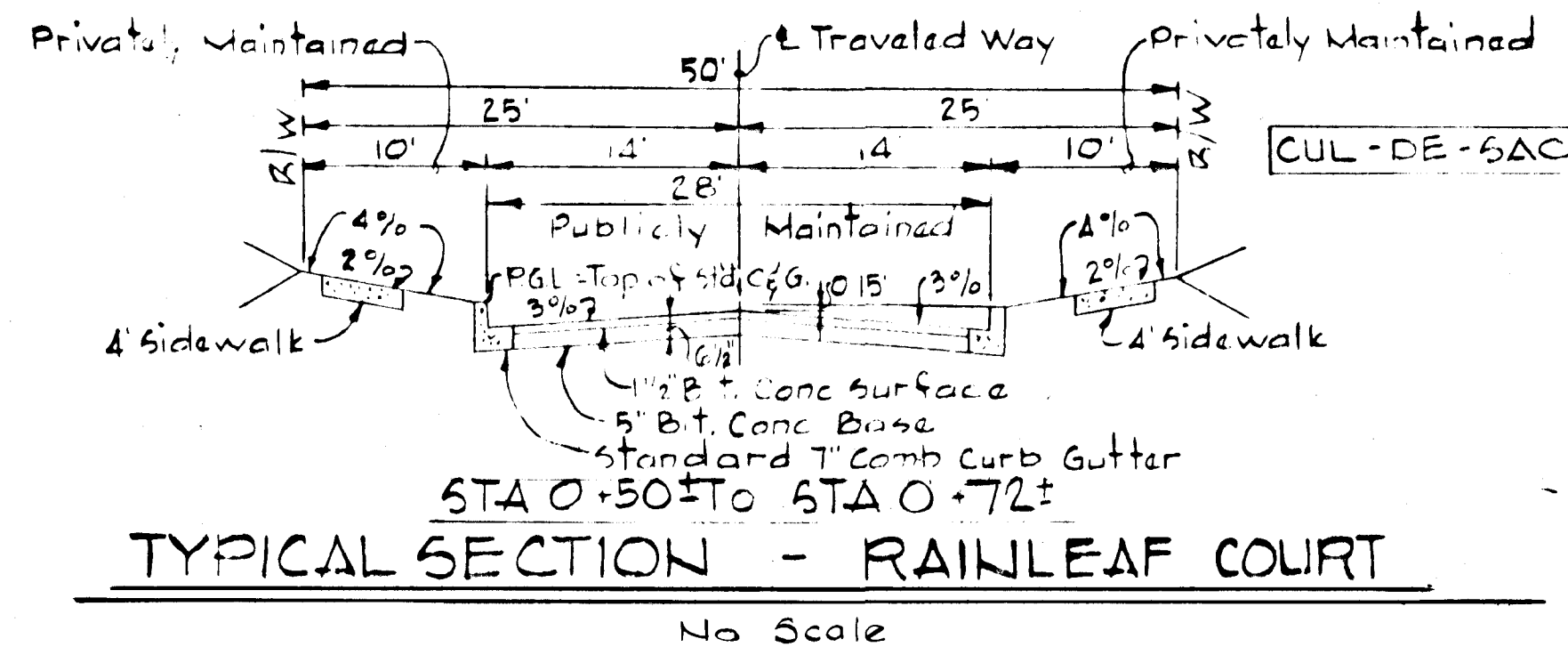
7/15/82	1	As Per D.P.W. Comments
Revision	Rev No	Revision Description
<b>COLUMBIA</b> 6TH ELECTION DISTRICT HOWARD COUNTY, MARYLAND OWNER AND DEVELOPER HOWARD HOMES BUILDING CO., INC. P.O. BOX 802, COLUMBIA, MARYLAND PROJECT AREA VILLAGE OF KINGS CONTINGENCE SECTION 3 AREA 1 LOTS B-15 THRU B-175 A RESUBDIVISION OF A PORTION OF PARCEL B-1 PROJECT TITLE DRAINAGE AREA MAP AND STORM DRAIN PROFILES SCALE: AS SHOWN DATE: WHITMAN, REQUARDT AND ASSOCIATES ENGINEERS 2315 ST. PAUL STREET BALTIMORE, MARYLAND 21218 <i>Kenneth A. McCord</i> KENNETH A. MCCORD Registered Engineer No. 1074		

AS-BUILT APRIL 21, 1983  
 AS-BUILT SURVEY CERTIFIED BY  
 KENNETH A. MCCORD, MD PRO-  
 FESSIONAL ENGINEER No. 1974

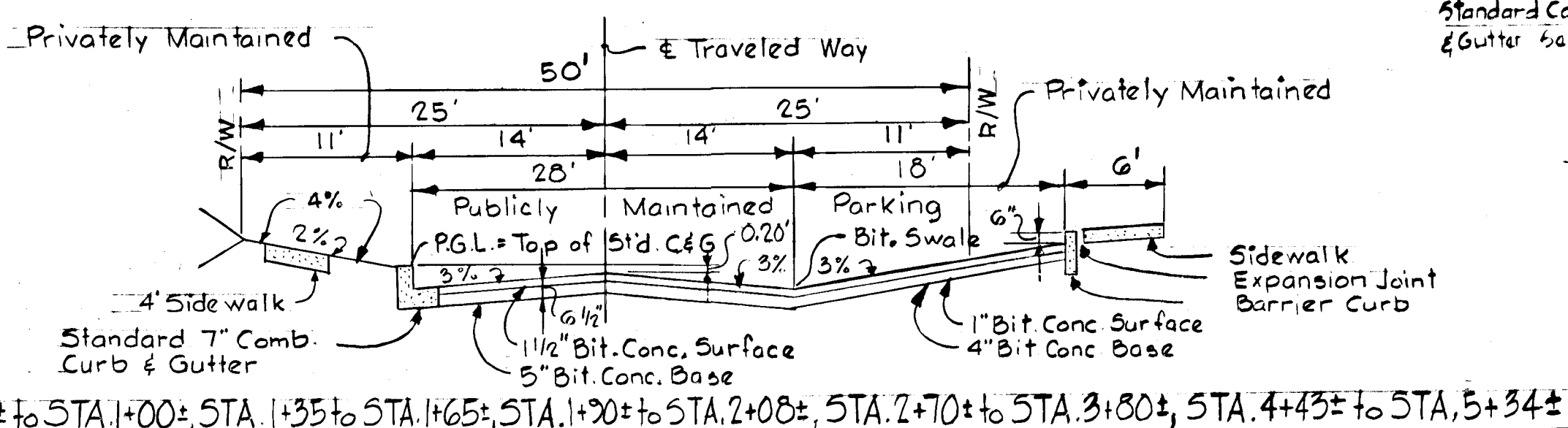




SECTION ALONG FLOW LINE  
SLUMPED "A" INLETS - STANDARD CURB



TYPICAL SECTION - RAINLEAF COURT



TYPICAL SECTION - RAINLEAF COURT

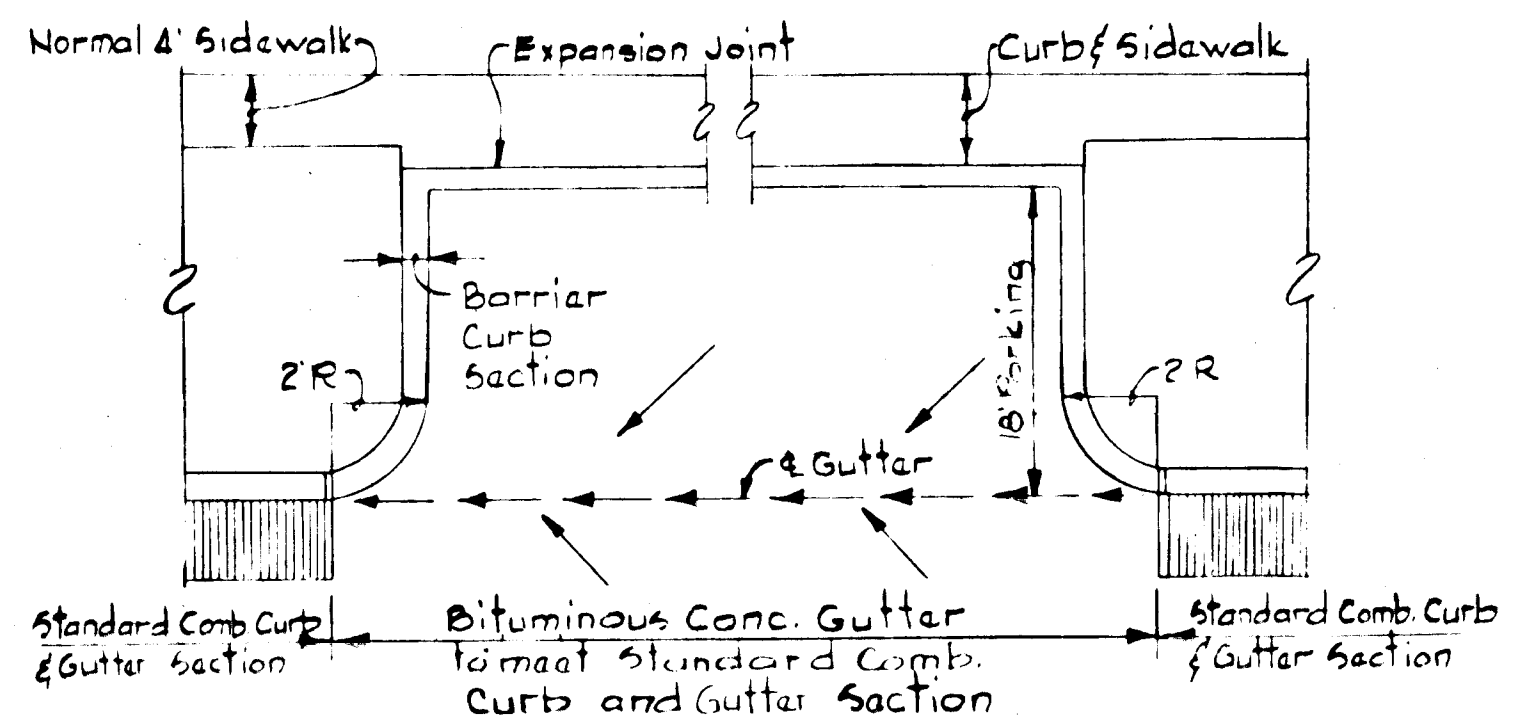
ROADWAY CONSTRUCTION NOTES:

- All materials and construction methods shall be in accordance with the Howard County Standard Specifications and Details for Construction.
- Standard T Comb and Modified Curb and Gutter shall be in accordance with County Standard Detail R-3.01.
- Paving (5") shall be in accordance with County Standard Detail R-2.01 (Paving Section P-1).
- Paving (6 1/2") shall be in accordance with County Standard Detail R-2.01 (Paving Section P-2).

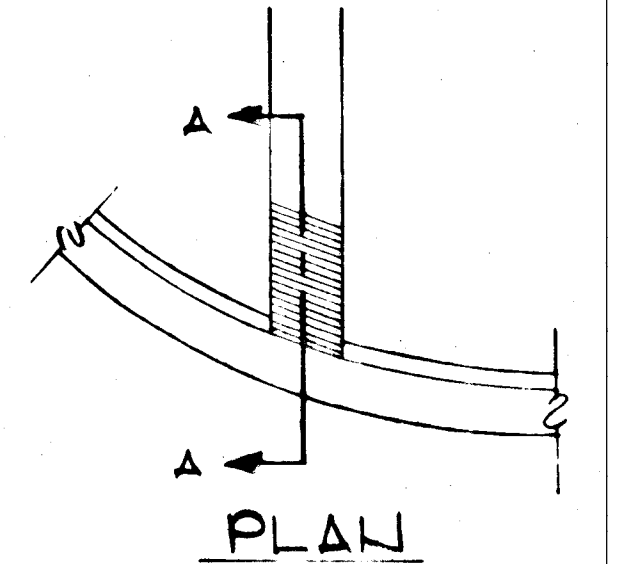
DEPARTMENT OF PUBLIC WORKS  
*K. C. Kelly* 7-30-82  
 CHIEF, BUREAU OF ENGINEERING  
 OFFICE OF PLANNING & ZONING  
*John W. Macdonald* 7-28-82  
 CHIEF, DIVISION OF LAND DEVELOPMENT  
 AND ZONING ADMINISTRATION

\*Granular Base Alternates may be substituted at the option of the Developer.

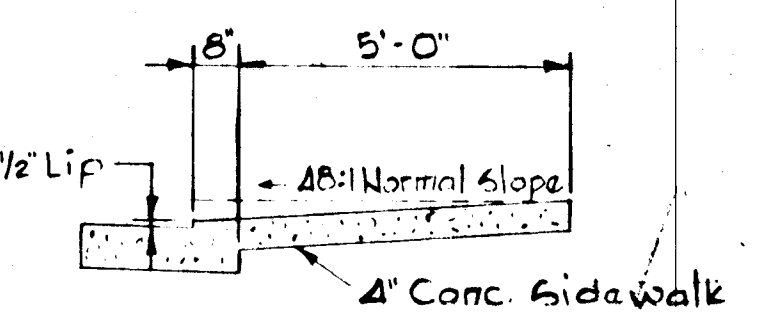
- Sidewalks shall be in accordance with County Standard Detail R-3.05.
- Base will be primed in accordance with Article 33.03 of the Howard County Standard Specifications.
- Tack Coat is required in accordance with the Howard County Standard Specifications.



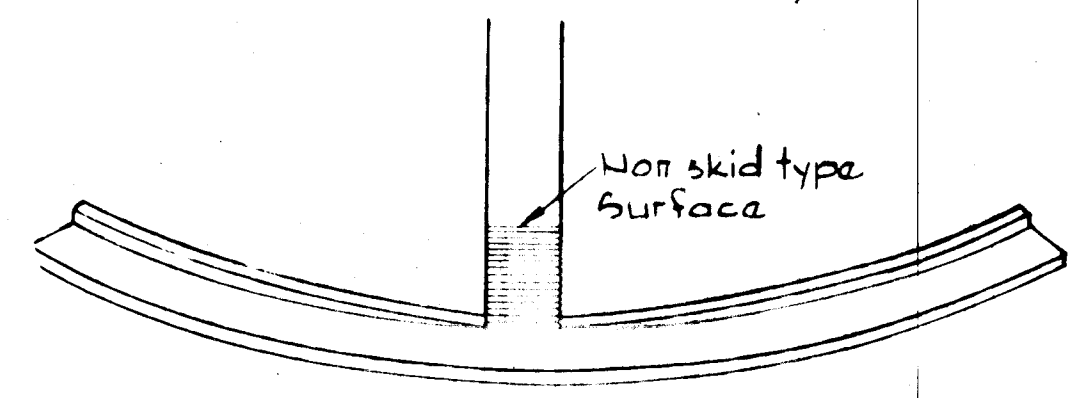
CURB GUTTER TRANSITION DETAIL



PLAN



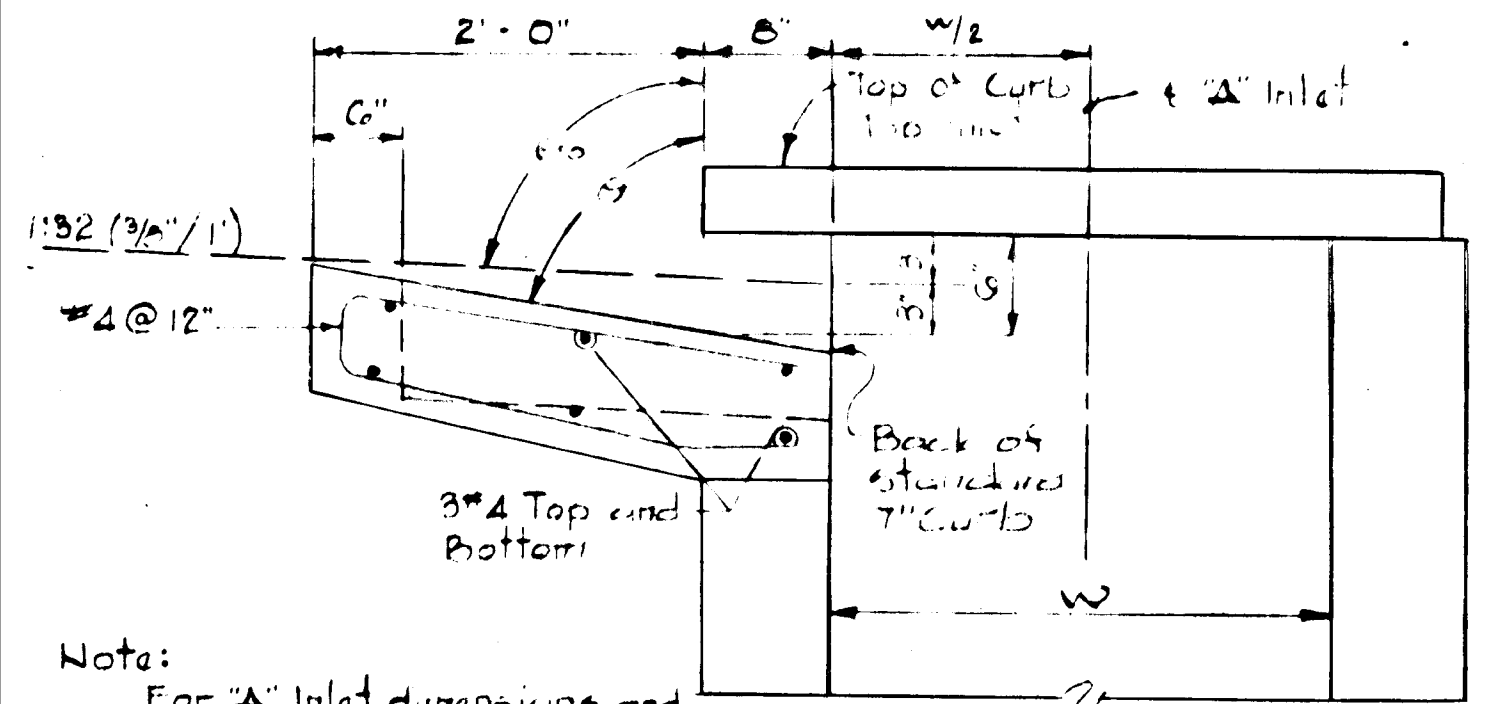
SECTION "A-A"



ISOMETRIC VIEW

SIDEWALK RAMP

No Scale



SECTION "A" INLET STANDARD CURB

Notes:  
 For "A" Inlet dimensions and structural details see Howard County Standard Details 6D-4.01 and 6D-4.02

7/15/84	1	As Per D.P.W. Comments
<b>COLUMBIA</b> 6th ELECTION DISTRICT HOWARD COUNTY, MARYLAND		
OWNER AND DEVELOPER <b>HOWARD HOMES BUILDING CO., INC.</b> P.O. BOX 802 COLUMBIA, MARYLAND		
PROJECT AREA <b>VILLAGE OF KINGS CONTRIVANCE</b> SECTION 3 AREA 1 LOTS 8-115 TO 175 A RE-SUBDIVISION OF A PORTION OF PARCEL "B-1"		
<b>STANDARD DETAILS</b>		
SCALE: AS SHOWN	DATE:	
WHITMAN, REQUARDT AND ASSOCIATES ENGINEERS 2315 ST. PAUL STREET BALTIMORE, MARYLAND 21202		
<i>Kenneth A. McCord</i> KENNETH A. MCCORD Registered Engineer No. 1974		



**DESIGN DATA**  
**SEDIMENT TRAP NO.5**  
 DRAINAGE AREA: 2.5 ACRES  
 DISTURBED AREA: 2.5 ACRES  
 VOLUME REQ'D: 67,251 GY  
 VOLUME AVAILABLE: 170 CY  
 DESIGN CAPACITY ELEV: 278.0  
 BOTTOM OF TRAP ELEV: 273.0  
 STONE OUTLET WIDTH: 6'x2.5'x15'

270 100 YEAR FLOOD PLAIN  
 DRAINAGE EASEMENT  
 100 YEAR FLOOD PLAIN

SILT FENCE  
 STONE FILTER  
 SEDIMENT TRAP NO.5  
 TOP BERM ELEV 279.0  
 SEDIMENT TRAP NO.6  
 TOP BERM ELEV 288.0  
 SEDIMENT TRAP NO.6  
 TOP BERM ELEV 288.0  
 SEDIMENT TRAP NO.6  
 TOP BERM ELEV 288.0

OPEN SPACE LOT 283  
 PLAT 444 B  
 OPEN SPACE LOT 283  
 PLAT 444 B  
 OPEN SPACE LOT 283  
 PLAT 444 B

OPEN SPACE LOT 283  
 PLAT 444 B  
 OPEN SPACE LOT 283  
 PLAT 444 B  
 OPEN SPACE LOT 283  
 PLAT 444 B

OPEN SPACE LOT 283  
 PLAT 444 B  
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 PLAT 444 B

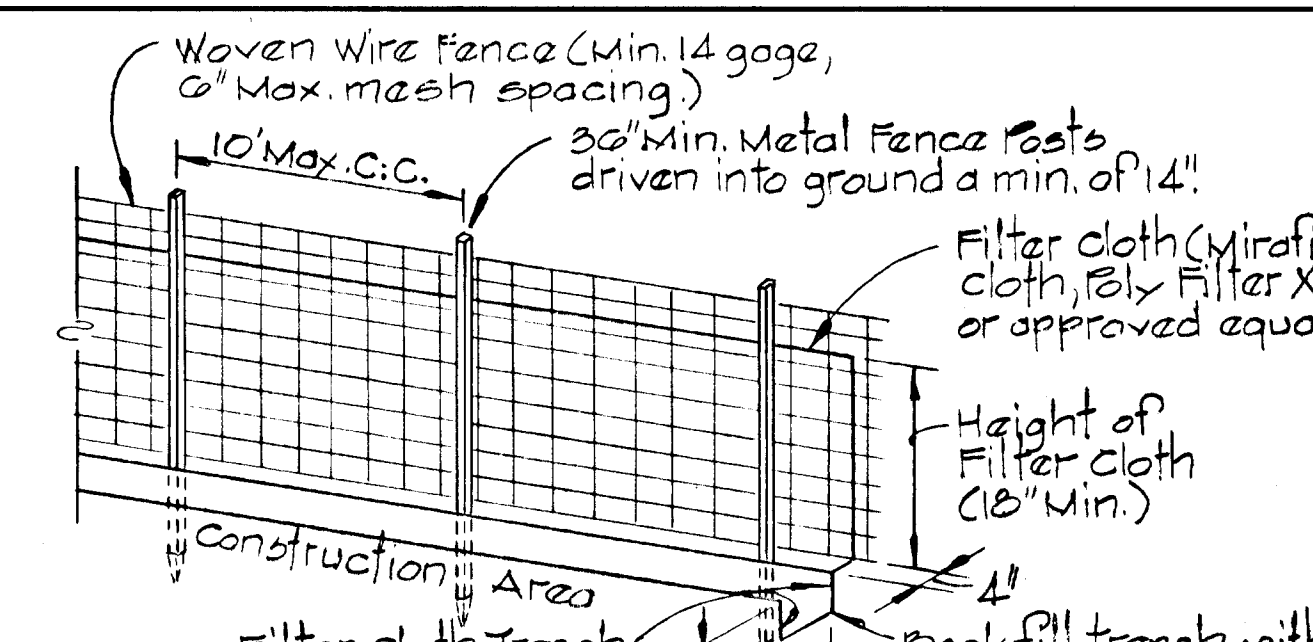
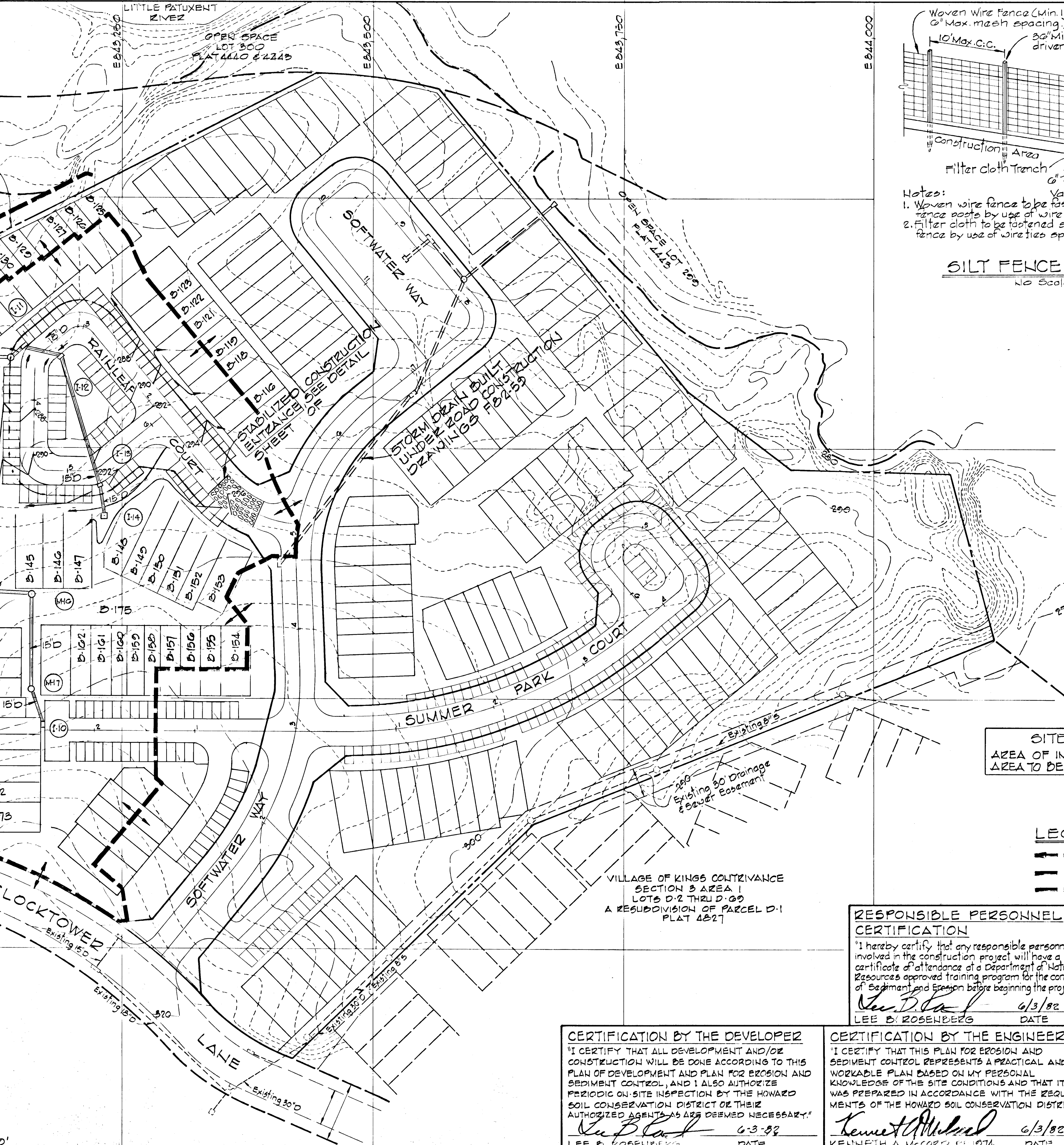
OPEN SPACE LOT 283  
 PLAT 444 B  
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 PLAT 444 B

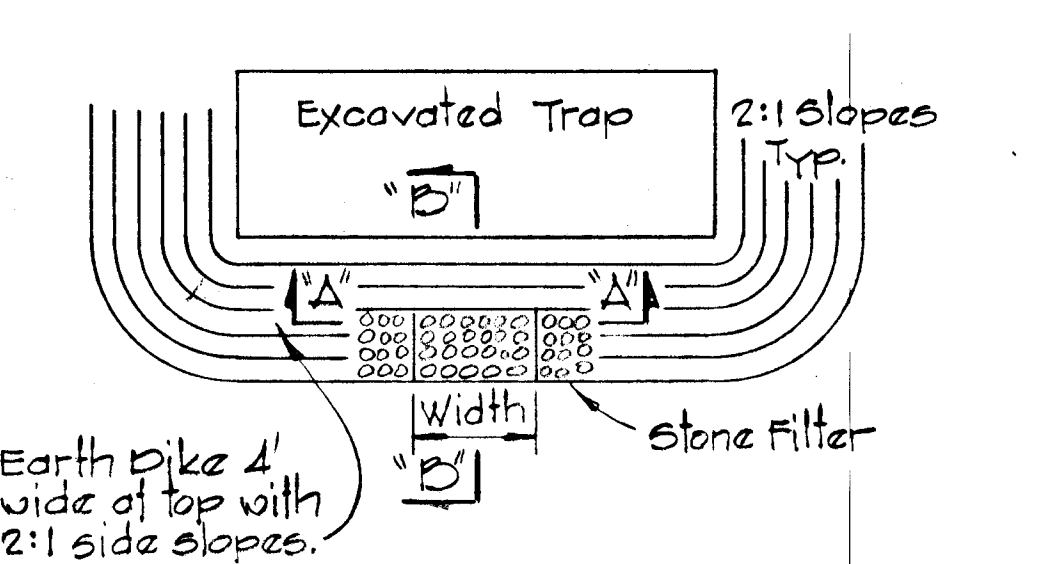
**DESIGN DATA**  
**SEDIMENT TRAP NO.6**  
 DRAINAGE AREA: 1.5 ACRES  
 DISTURBED AREA: 1.5 ACRES  
 VOLUME REQ'D: 67,153 ACRES  
 VOLUME AVAILABLE: 102 CY  
 DESIGN CAPACITY ELEV: 287.0  
 BOTTOM OF TRAP ELEV: 284.0  
 STONE OUTLET WIDTH: 6'x1.5'x10'



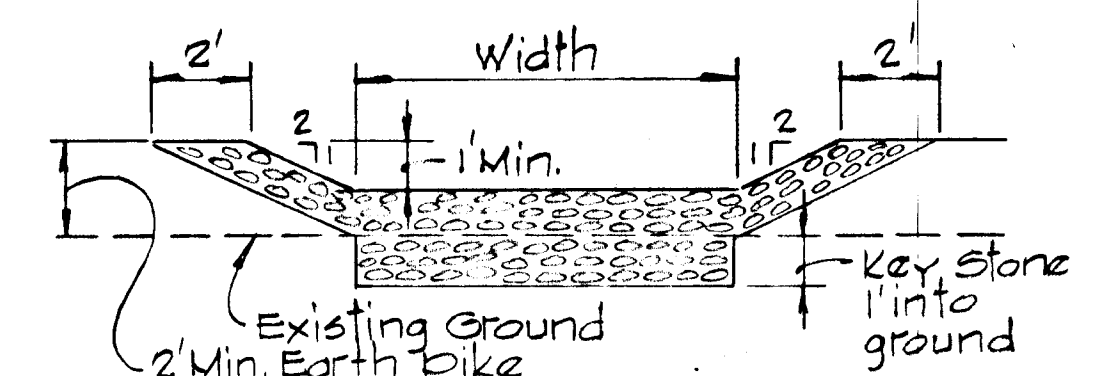
Notes:  
 1. Woven wire fence to be fastened securely to fence posts by use of wire ties.  
 2. Filter cloth to be fastened securely to woven wire fence by use of wire ties spaced every 24" x 24".

**SILT FENCE DETAIL**  
 No Scale

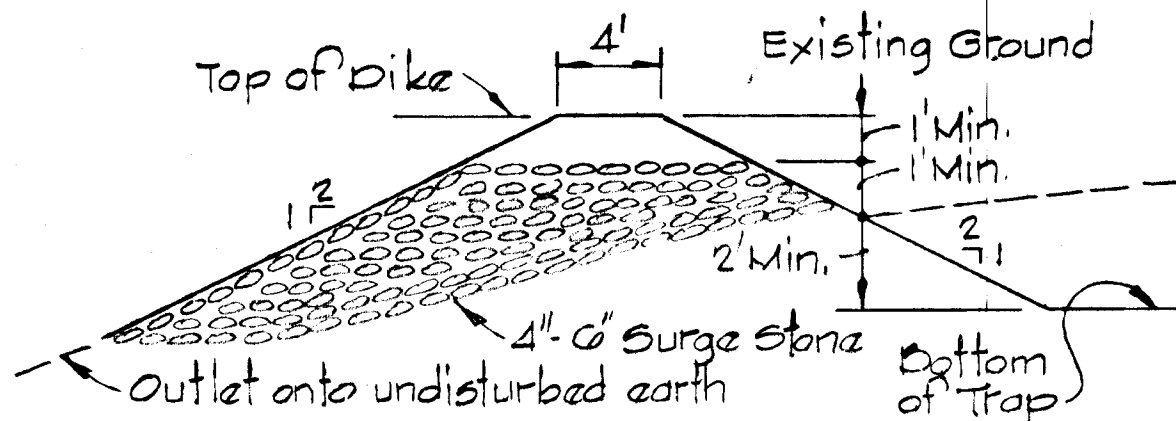
DEPARTMENT OF PUBLIC WORKS  
 GREEN & ROSE 7-30-82  
 CHIEF, BUREAU OF ENGINEERING  
 OFFICE OF PLANNING & ZONING  
 CHIEF, DIVISION OF LAND DEVELOPMENT AND ZONING ADMINISTRATION DATE 7-27-82



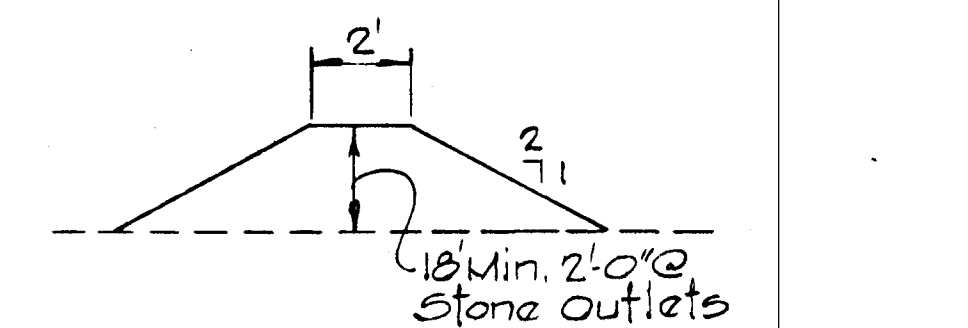
**TYPICAL PLAN - EXCAVATED TRAP**



**SECTION 'A-A'**



**SECTION 'B-B'**  
**TRAP AND STONE FILTER DETAIL**  
 No Scale



**DIVERSION DIKE**  
 No Scale

**SITE ANALYSIS**  
 AREA OF IMPERVIOUS: 1.8 ACRES  
 AREA TO BE VEGETATED: 2.2 ACRES

**LEGEND**  
 - - - DIVERSION DIKE  
 - - - SILT FENCE  
 - - - DRAINAGE AREA LINE

VILLAGE OF KINGS CONTRIVANCE  
 SECTION 3 AREA 1  
 LOTS D-2 THRU D-99  
 A RESUBDIVISION OF PARCEL D-1  
 PLAT 4827

**RESPONSIBLE PERSONNEL CERTIFICATION**  
 I hereby certify that any responsible personnel involved in the construction project will have a certificate of attendance of a Department of Natural Resources approved training program for the control of Sediment and Erosion before beginning the project.  
 Lee B. Rosenberg 6/3/82  
 LEE B. ROSENBERG DATE

REVIEWED FOR HOWARD SCD.  
 AND MEETS TECHNICAL REQUIREMENTS  
 Kenneth A. McCord 7-27-82  
 KENNETH A. MCCORD DATE  
 U.S. SOIL CONSERVATION SERVICE

**CERTIFICATION BY THE DEVELOPER**  
 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.  
 Lee B. Rosenberg 6-3-82  
 LEE B. ROSENBERG DATE

**CERTIFICATION BY THE ENGINEER**  
 I 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.  
 Kenneth A. McCord 6/3/82  
 KENNETH A. MCCORD DATE

THIS DEVELOPMENT PLAN IS APPROVED FOR SOIL EROSION AND SEDIMENT CONTROL BY THE HOWARD SOIL CONSERVATION DISTRICT.  
 APPROVED Kenneth A. McCord 7-27-82  
 HOWARD SCD DATE

1	7/15/82	Relocated Traps 5 and 6 As per H.R.D. Request
Rev. Date	Rev. No.	Revision Description
<b>COLUMBIA</b> 6TH ELECTION DISTRICT HOWARD COUNTY, MARYLAND		
OWNER AND DEVELOPER HOWARD HOMES BUILDING CO. INC. P.O. BOX 802 COLUMBIA, MARYLAND		
PROJECT AREA VILLAGE OF KINGS CONTRIVANCE SECTION 3 AREA 1 LOTS D-115 THRU D-175 A RESUBDIVISION OF A PORTION OF PARCEL D-1		
PROJECT TITLE SEDIMENT CONTROL PLAN AND DETAILS		
SCALE: AS SHOWN DATE:		
WHITMAN, REQUARDT AND ASSOCIATES ENGINEERS 2315 ST. PAUL STREET BALTIMORE, MARYLAND 21218		
Kenneth A. McCord KENNETH A. MCCORD Registered Engineer No. 1074		



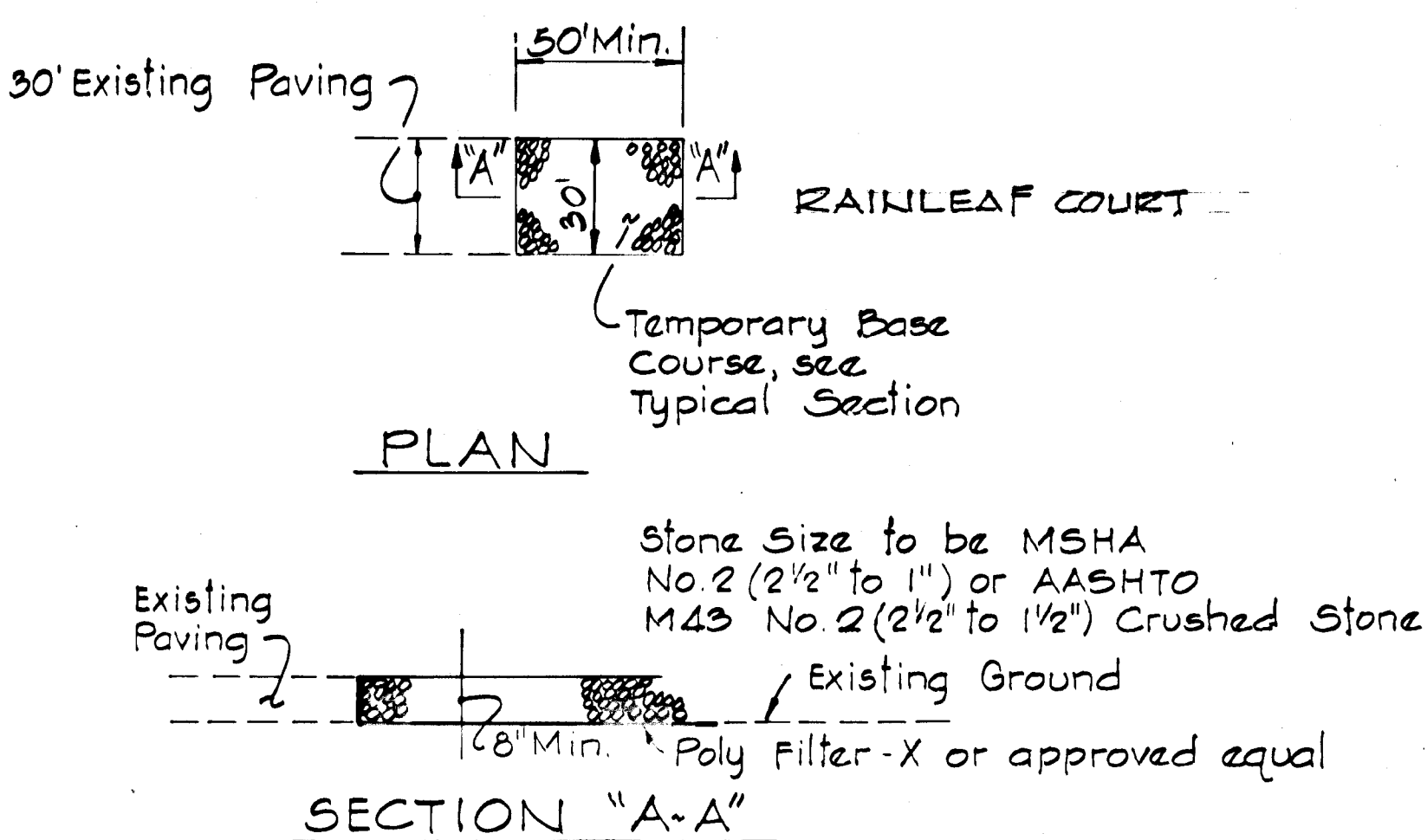
**SEDIMENT CONTROL NOTES**

- See "Sequence of Construction" this sheet.
- The Sediment Control measures shall be constructed as shown on these drawings.
- All diversion dikes shall be seeded as specified in notes 4 and 5. All other surfaces to be permanently seeded. See Specifications this sheet.
- The diversion dikes shall be hydroseeded as follows:
  - Ground Limestone (50#/1000#)
  - Fertilizer 10-10-10 (25#/1000#)
  - Seed Italian Rye Grass (40#/Acre)
- Mulch with straw at the rate of 30#/1000# or one ton/acre. Anchor with asphalt at the rate of 480 gallons/acre.

**PERMANENT SEEDING**

Lime - 2 tons/acre agricultural ground limestone.  
 Fertilizer - 1000#/acre (10-10-10)  
 Seeding - 100#/acre of the following:  
 20% Kentucky Blue Grass, 20% Marion Blue Grass, 55% Creeping Red Fescue, 5% Redtop  
 Mulch Required - Mulch area with straw at 75#/1000# or 1.5 tons/acre. Anchor with asphalt at the rate of 480 gallons/acre. Stabilization of slopes steeper than 3:1 shall be planted with crownvetch at 15#/acre or 0.34#/1000# and Kentucky 31 Tall Fescue at 40#/acre or 1#/1000#.

SEE VP-82-08



**STABILIZED CONSTRUCTION ENTRANCE DETAIL**  
No Scale

**CERTIFICATION BY THE DEVELOPER**

"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."

Lee B. Rosenberg 6/3/82  
LEE B. ROSENBERG DATE

**CERTIFICATION BY THE ENGINEER**

"I 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."

Kenneth A. McCord 6/3/82  
KENNETH A. MCCORD REG. 1974 DATE

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

APPROVED: [Signature] 7-27-82  
HOWARD S.C.D. DATE

REVIEWED FOR HOWARD S.C.D. AND MEETS TECHNICAL REQUIREMENTS

[Signature] 7-27-82  
U.S. SOIL CONSERVATION SERVICE DATE

**RESPONSIBLE PERSONNEL CERTIFICATION**

"I hereby certify that any responsible personnel involved in the construction project will have a certificate of attendance at a Department of Natural Resources approved training program for the control of sediment and erosion before beginning the project."

Lee B. Rosenberg 6/3/82  
LEE B. ROSENBERG DATE

**SEQUENCE OF CONSTRUCTION**

- Obtain grading permit.
- Construct "Stabilized Construction Entrance" on Rainleaf Court.
- Construct diversion dikes, silt fence and sediment traps B and G.
- Stabilize diversion dikes and sediment trap embankment with temporary seeding, see specifications.
- Clear, grub, strip and rough grade limits of construction.
- Construct storm drain systems, utilities, housing, curb and gutter and streets.
- Final grade and construct sidewalks, etc.
- Stabilize all disturbed areas with permanent seeding, see specifications.
- After grass is established in the contributing drainage areas flush storm drain systems and remove diversion dikes, silt fence and sediment traps B and G. Stabilize Trap Removal Area with permanent seeding, see specifications.

DEPARTMENT OF PUBLIC WORKS  
 William E. Reilly 7-30-82  
 CHIEF, BUREAU OF ENGINEERING DATE  
 OFFICE OF PLANNING AND ZONING  
 [Signature] 7-28-82  
 CHIEF, DIVISION OF LAND DEVELOPMENT AND ZONING ADMINISTRATION DATE

Rev. Date	Rev. No.	Revision Description
7/15/82	1	Relocated Traps B and G As per H.R.D. Request
<b>COLUMBIA</b> 6TH ELECTION DISTRICT HOWARD COUNTY, MARYLAND OWNER AND DEVELOPER HOWARD HOMES BUILDING CO., INC. P.O. BOX 802 COLUMBIA, MARYLAND		
PROJECT AREA VILLAGE OF KINGS CONTRIVANCE SECTION 3 AREA 1 LOTS D-115 THRU D-175 A RESUBDIVISION OF A PORTION OF PARCEL D-1		
PROJECT TITLE SEDIMENT CONTROL DETAILS		
SCALE: AS SHOWN DATE:		
WHITMAN, REQUARDT AND ASSOCIATES ENGINEERS 2315 ST. PAUL STREET BALTIMORE, MARYLAND 21218		
[Signature] KENNETH A. MCCORD Registered Engineer No. 1074		