

As BUILT SURVEY DATED 6-10-82 SIGNED & SEALED BY DONALD B. SACKETT - REG. NO. 6059

APPROVED: Department of Public Works

John E. Rose Chief, Bureau of Engineering 6-12-82 Date

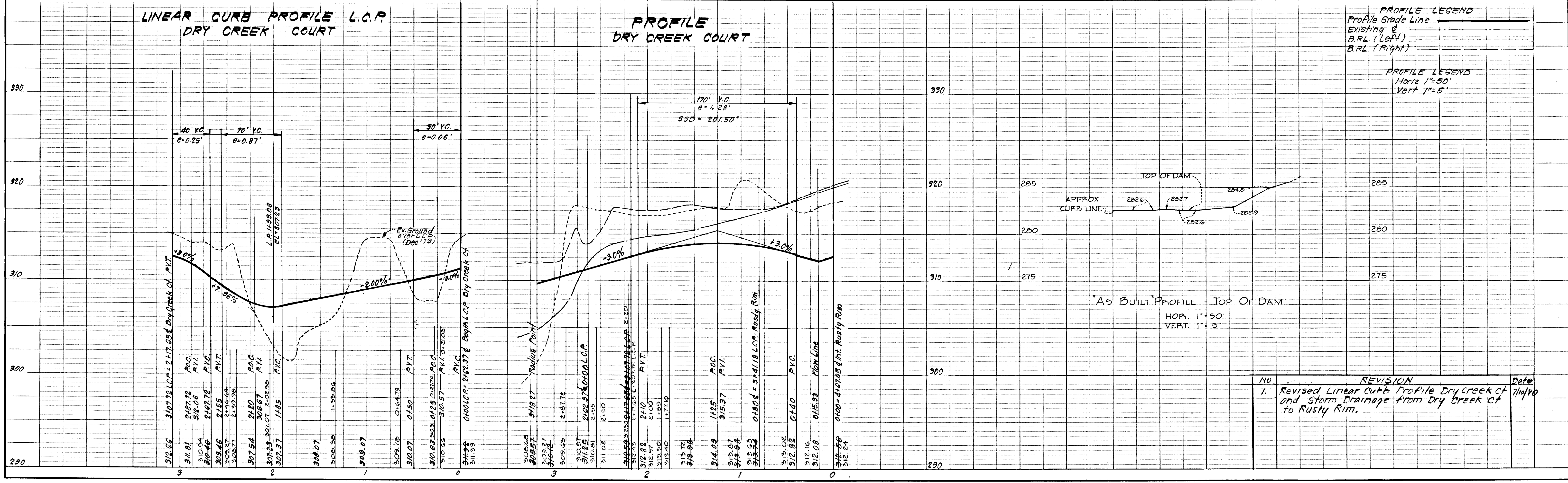
APPROVED: Howard County Office of Planning & Zoning

John W. Meacham Chief, Division of Land Development 6-11-82 Date

CLARK • FINE FROCK & SACKETT
ENGINEERS • PLANNERS • SURVEYORS

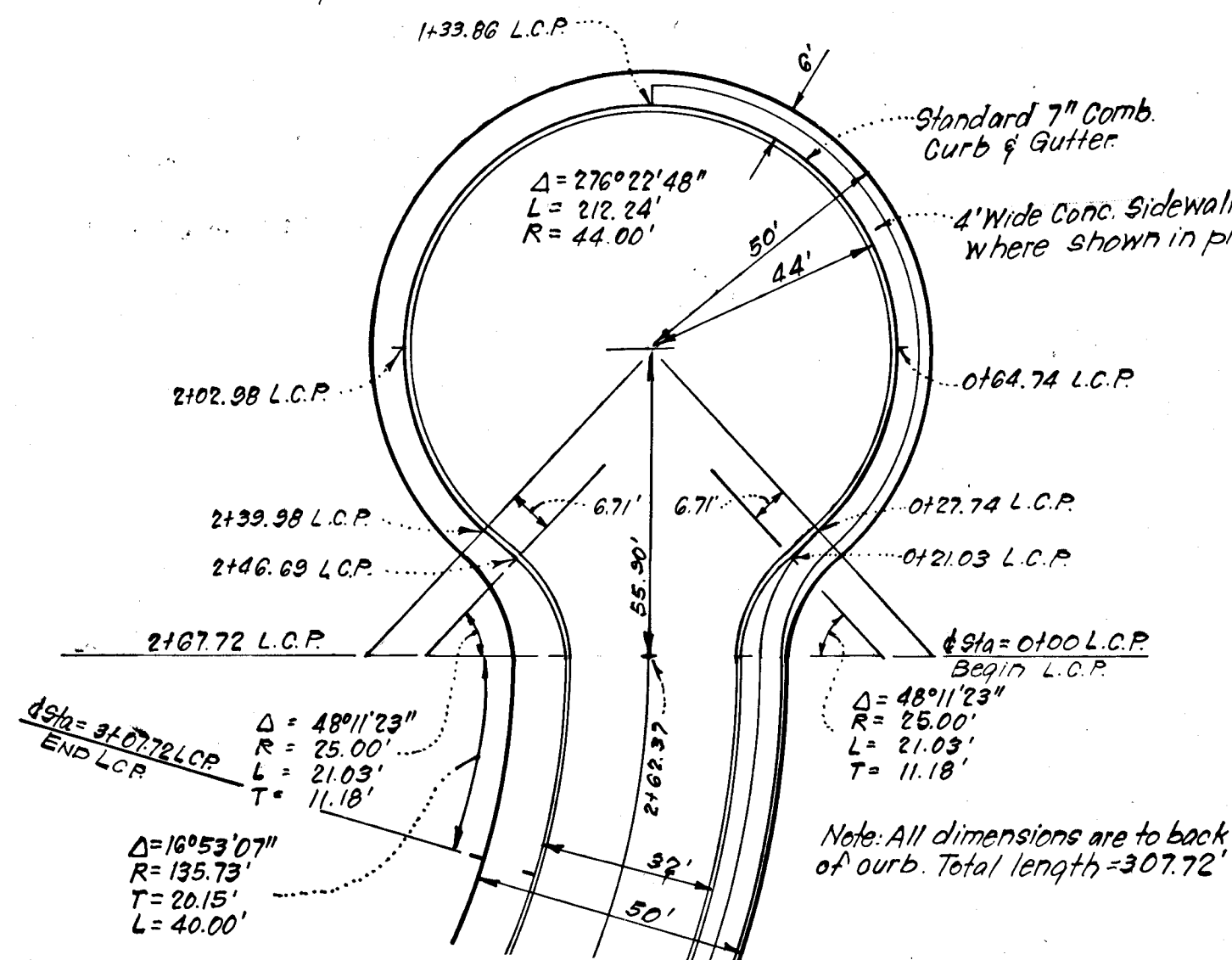
11315 LOCKWOOD DRIVE • SILVER SPRING, MARYLAND 20906 • (301)593-3400

DESIGNED J.L.S.	ROAD CONSTRUCTION PLANS DRY CREEK COURT	SCALE As Shown
DRAWN K.I.W.	ELLICOTT HILLS A RESUBDIVISION OF LOT 1 MARIE K. SMITH PROPERTY 2ND ELECTION DISTRICT	DRAWING 2 of 5
CHECKED J.L.S.	HOWARD COUNTY, MARYLAND	JOB NO. 73-042
DATE Dec., 1979	FOR: K. of P. Development 9% J.D. Evans Suite 105, 11065 Little Patuxent Pkwy. Columbia, Md. 21044	FILE NO. 73-042-D



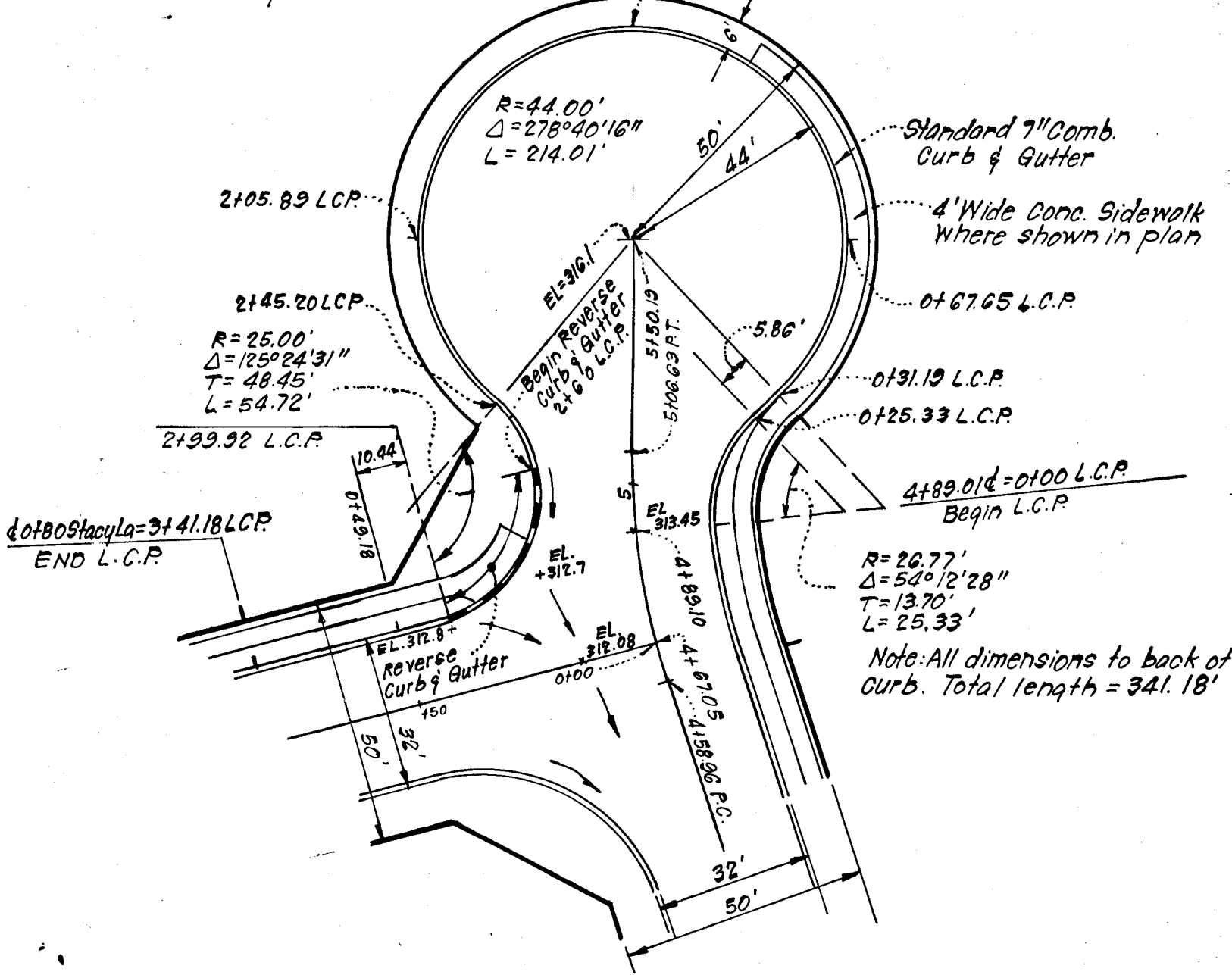
842

Note: For Top of Curb Elevations See Respective Profiles

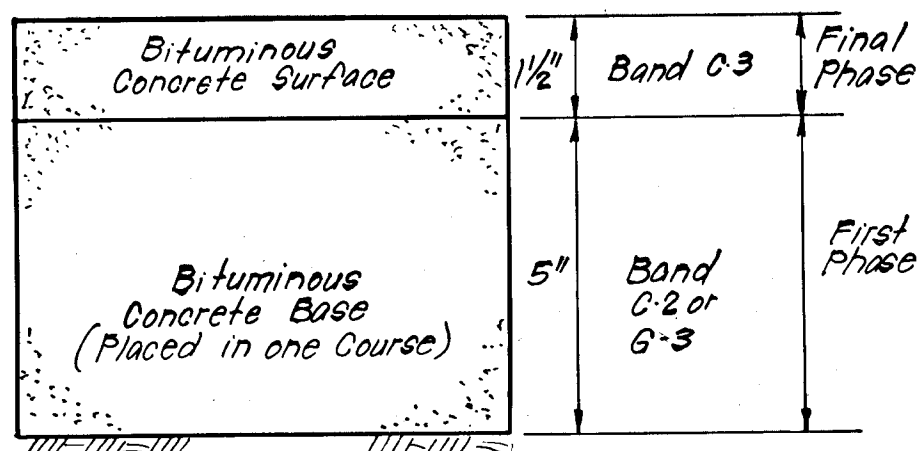


**CUL-DE-SAC DETAIL
DRY CREEK COURT**
Scale: 1"=30'

Note: For Top of Curb Elevations See Respective Profiles

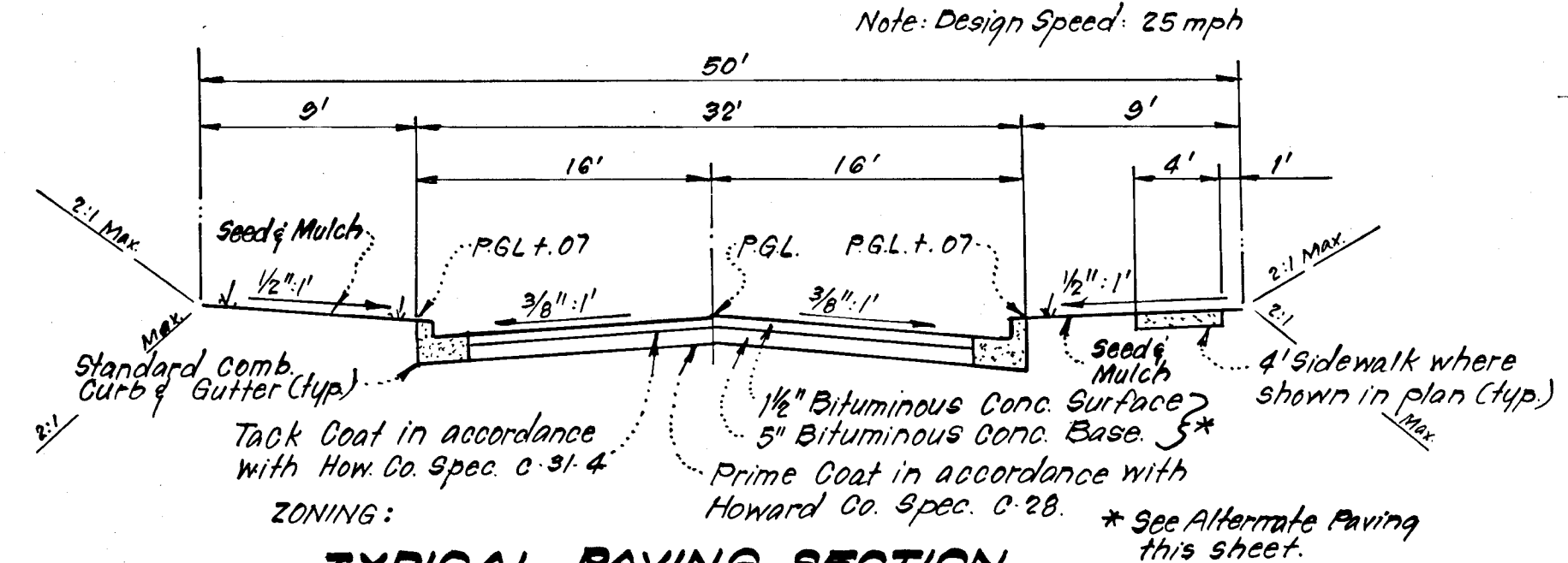


**CUL-DE-SAC DETAIL
RUSTY RIM**
Scale: 1"=30'

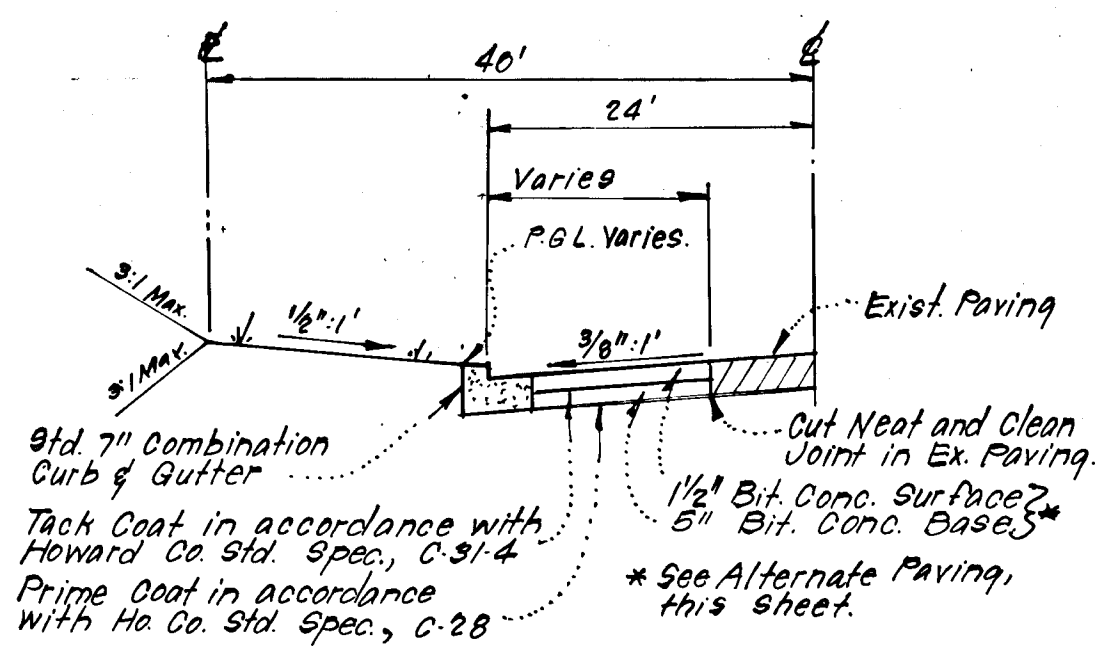


To be constructed in accordance with the Howard County Road Construction Code and Specifications. Note: Use this section or alternate section, this sheet.

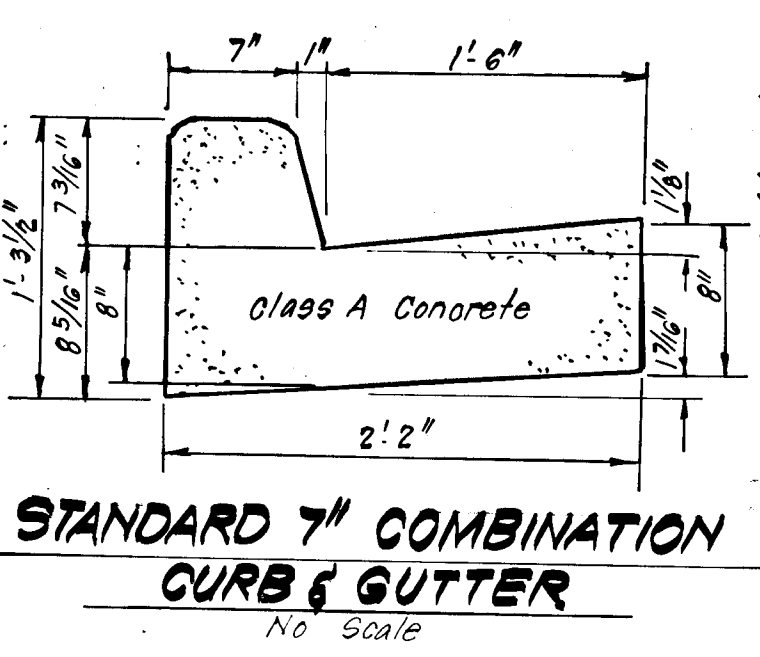
PAVING SECTION FOR PUBLIC ROADS AND ENTRANCES TO PUBLIC ROADS
No Scale



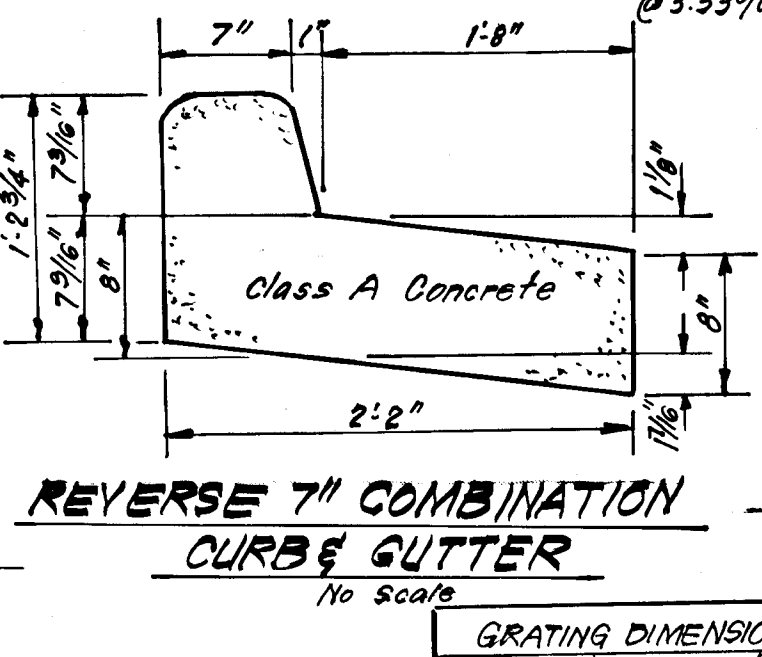
**TYPICAL PAVING SECTION
RUSTY RIM STA 0154.67-4+89.01
DRY CREEK CT. Sta 0149.18-2+17.65**
No Scale



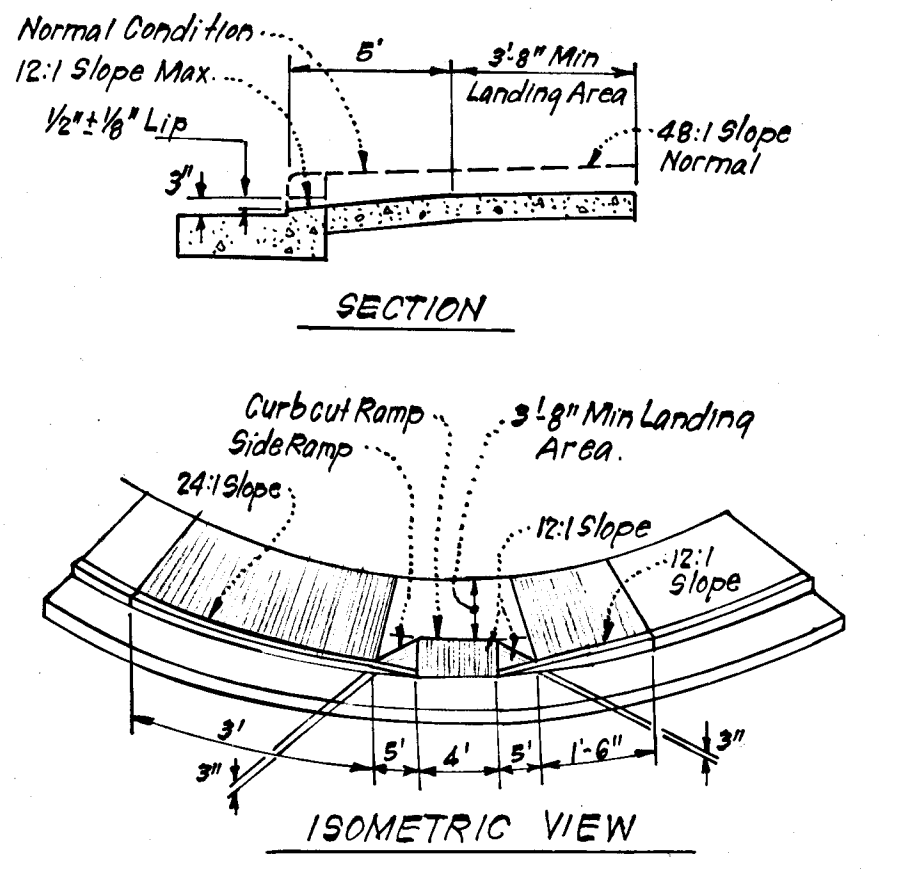
**TYPICAL HALF SECTION
ROGERS AVENUE**
STA 0142 to STA 2104
No Scale



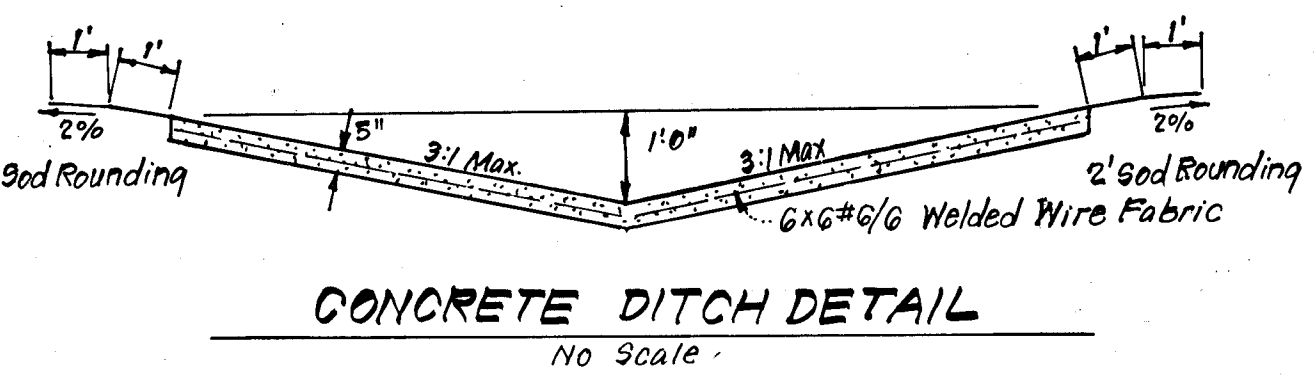
STANDARD 7\"/>



REVERSE 7\"/>



**SIDEWALK RAMP DETAIL
S.H.A. STD. MD 655.16**
No Scale

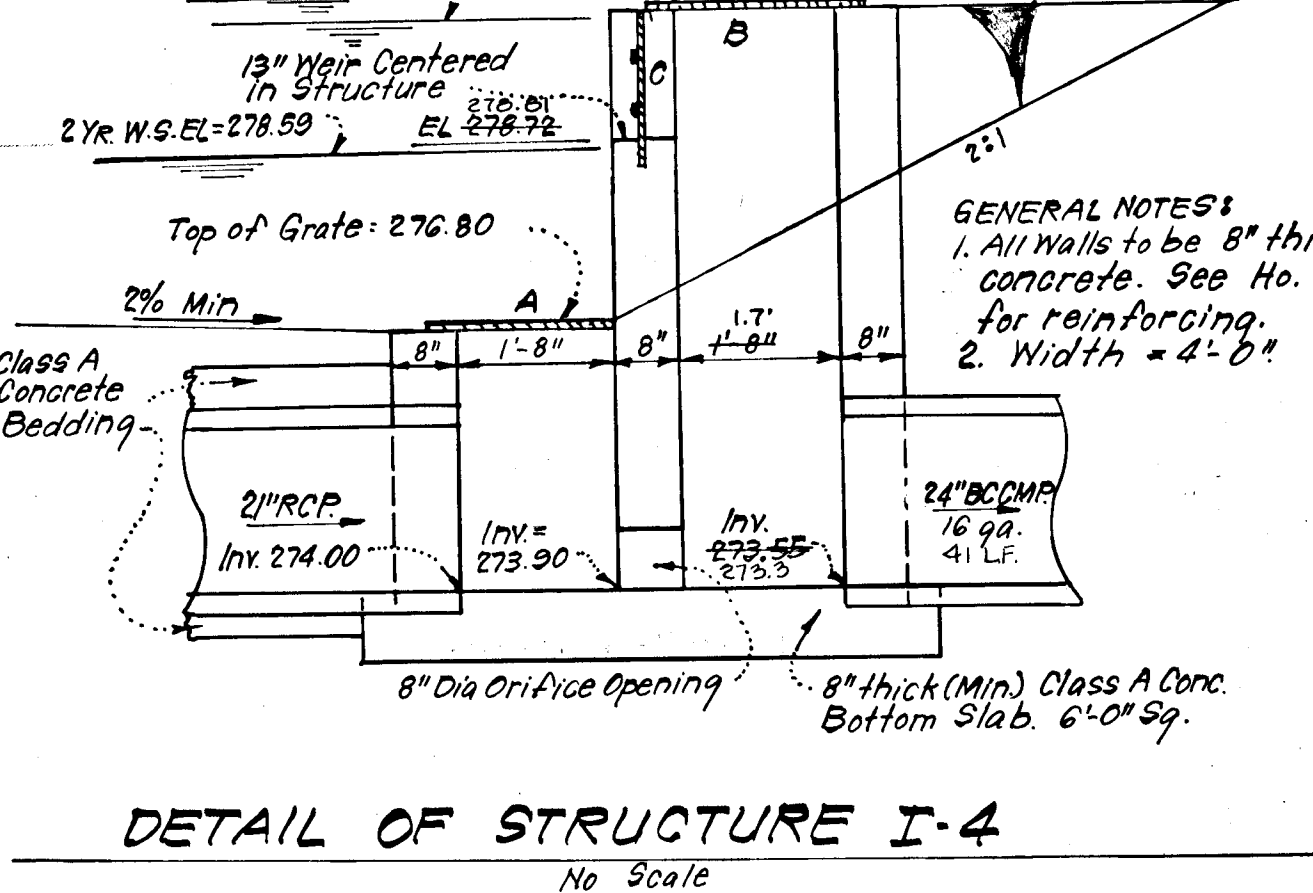


CONCRETE DITCH DETAIL
No Scale

GRATING DIMENSION TABLE

OPENING	LENGTH of Lx	Dimensions
A	2'-2"	2'-2" x 4'-8"
B	2'-4"	2'-4" x 4'-8"
C	See Note #3	

GRATING NOTES:
1. Grating shall be steel "Irving X Bar type A-A" or approved equal valent.
2. All materials to be hot dipped galvanized.
3. Grate C to be 2 Vertical Grate Bars 4" x 1/2" embedded 4" into str. wall and welded to L of grate B and 2 horizontal cross bars 4" x 1/2" embedded 4" into str. walls and welded to vertical bars.
4. For details not shown see S.H.A. Std. No. Md. 38 1.01.



DETAIL OF STRUCTURE I-4
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: *[Signature]* Date: 12-11-79

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: *[Signature]* Date: 12-11-79

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.

Signature: *[Signature]* Date: 6-10-80
U.S. Soil Conservation Service

STRUCTURE SCHEDULE

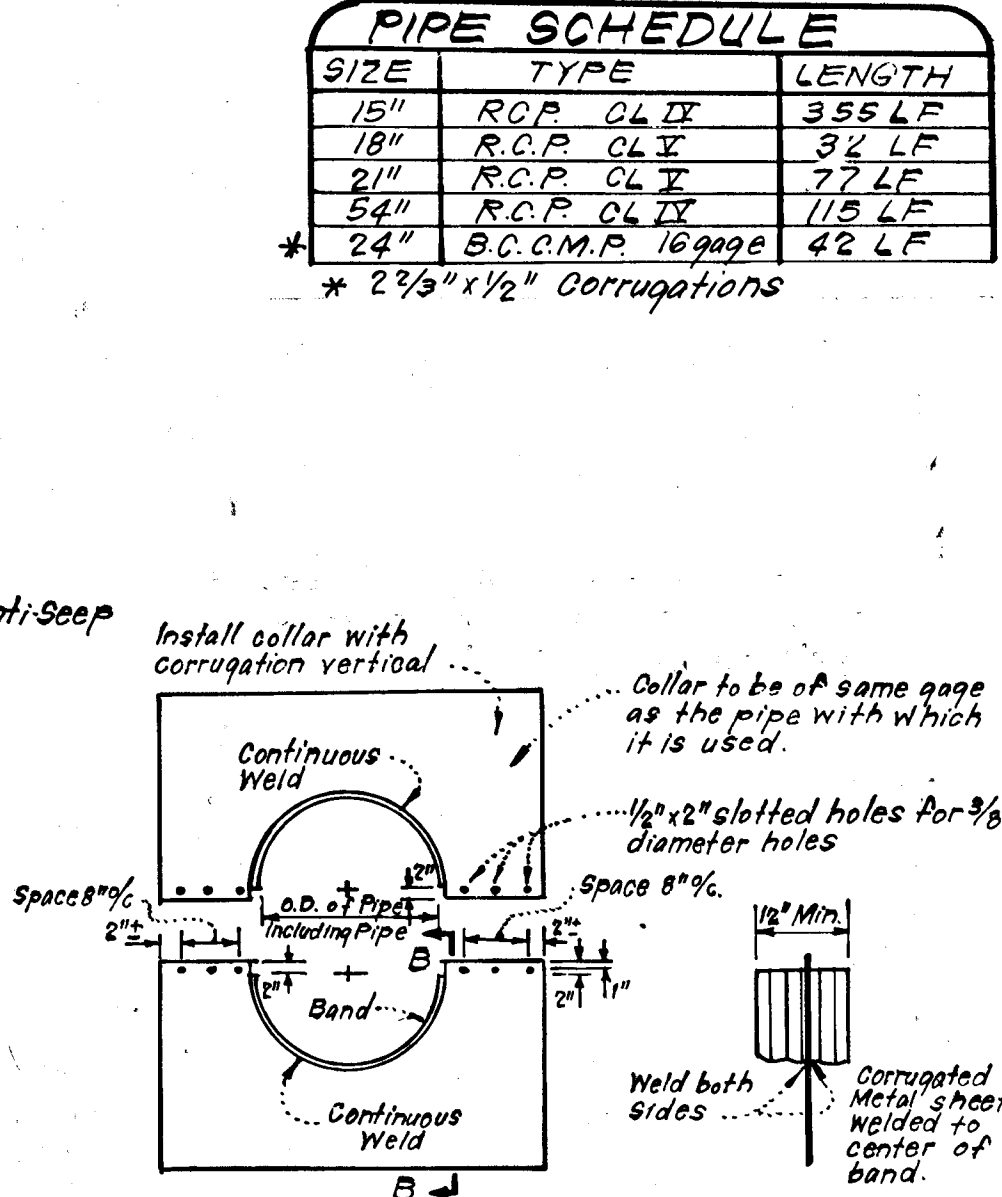
No.	TYPE	INV. IN	INV. OUT	TOP ELEVATION		REMARKS	LOCATION
				Upper	Lower		
M-2	C. Manhole	277.96	277.96	277.96	277.96	Ho. Co. Std. Fig. 3.04	101 Rogers Ave 30' Rt.
M-3	C. Manhole	271.88	271.88	280.47	280.47	Ho. Co. Std. Fig. 3.04	6' Sq. See Plan
I-4	Special	273.00	273.00	-	-	See detail this sheet	See Plan
I-5	K. Inlet	277.25	277.25	281.50	281.50	Ho. Co. Std. Fig. 4.12 4.13	W=3'-0" 1185 Rogers Ave 26' Rt.
I-6	A-5 Inlet w/ Deflectors	277.25	274.88	282.78	282.45	Ho. Co. Std. Fig. 4.01	W=2'-6" 1180 Rusty Rim 53' Rt.
I-7	A-10 Inlet w/ Deflectors	278.78	278.78	282.90	282.90	Ho. Co. Std. Fig. 4.02	W=2'-6" 1180 Rusty Rim 53' Lt.
M-8	B. Manhole	279.23	280.50	285.63	285.63	Ho. Co. Std. Fig. 3.03	48" Sq. 1125 Rusty Rim 22' Lt.
I-9	D. Inlet	282.4	282.4	300.60	300.60	Ho. Co. Std. Fig. 4.01	2'-6" Sq. See Plan
I-10	A-10 Inlet	282.4	303.55	307.30	307.19	Ho. Co. Std. Fig. 4.02	W=2'-6" 1180 Rusty Rim 22' Lt.

+ Top Elev = Invert of Conc. Ditch at Inlet
* Provide Slots in E.W. Sides, Top elev = Slot elev.
** Manhole to be centered on existing 43" 60" CMP
Note: All inverts to be fully developed.
* Provide Inlet Deflectors, Ho. Co. Std. Fig. 4.83.

PIPE SCHEDULE

SIZE	TYPE	LENGTH
15"	R.C.P. CL II	355 LF
18"	R.C.P. CL II	31 LF
21"	R.C.P. CL II	7 LF
54"	R.C.P. CL II	115 LF
24"	B.C.C.M.P. 16 gage	42 LF

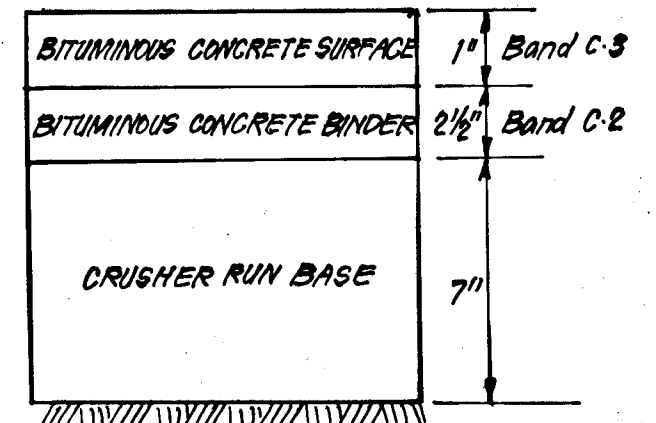
* 2 3/8" x 1/2" Corrugations



ANTI-SEEP COLLAR DETAIL
No Scale

NOTES FOR COLLAR:
1. All materials to be in accordance with construction and construction material specifications.
2. When specified on plans, coating of collars shall be in accordance with construction and construction material specifications.
3. Unassembled collars shall be marked by painting or tagging to identify matching pairs.
4. The lap between the two half sections and between the pipe and connecting band shall be caulked with asphalt mastic at time of installation.
5. Each collar shall be furnished with two 1/2" dia rods with standard tank lugs for connecting collars to pipe.

PROFILES
SCALE: Horiz: 1"=50'
Vert: 1"=5'



**ALTERNATE PAVING SECTION
ALL PUBLIC STREETS**

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

Approved: *[Signature]* Date: 6-10-80
Howard S.C.D.

F80-86
Plan Number

APPROVED: Department of Public Works

[Signature] Date: 6-12-80
Chief, Bureau of Engineering

APPROVED: Howard County Office of Planning & Zoning

[Signature] Date: 6-11-80
Chief, Division of Land Development

CLARK • FINEFROCK & SACKETT
ENGINEERS • PLANNERS • SURVEYORS

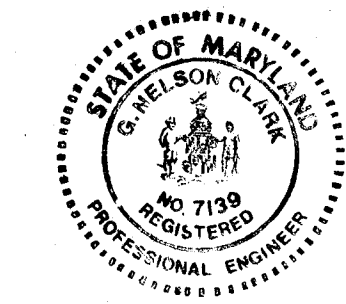
11315 LOCKWOOD DRIVE SILVER SPRING, MARYLAND 20904 (301) 593-3400

DESIGNED: JLS
DRAWN: JLS
CHECKED: JLS
DATE: Dec, 1979

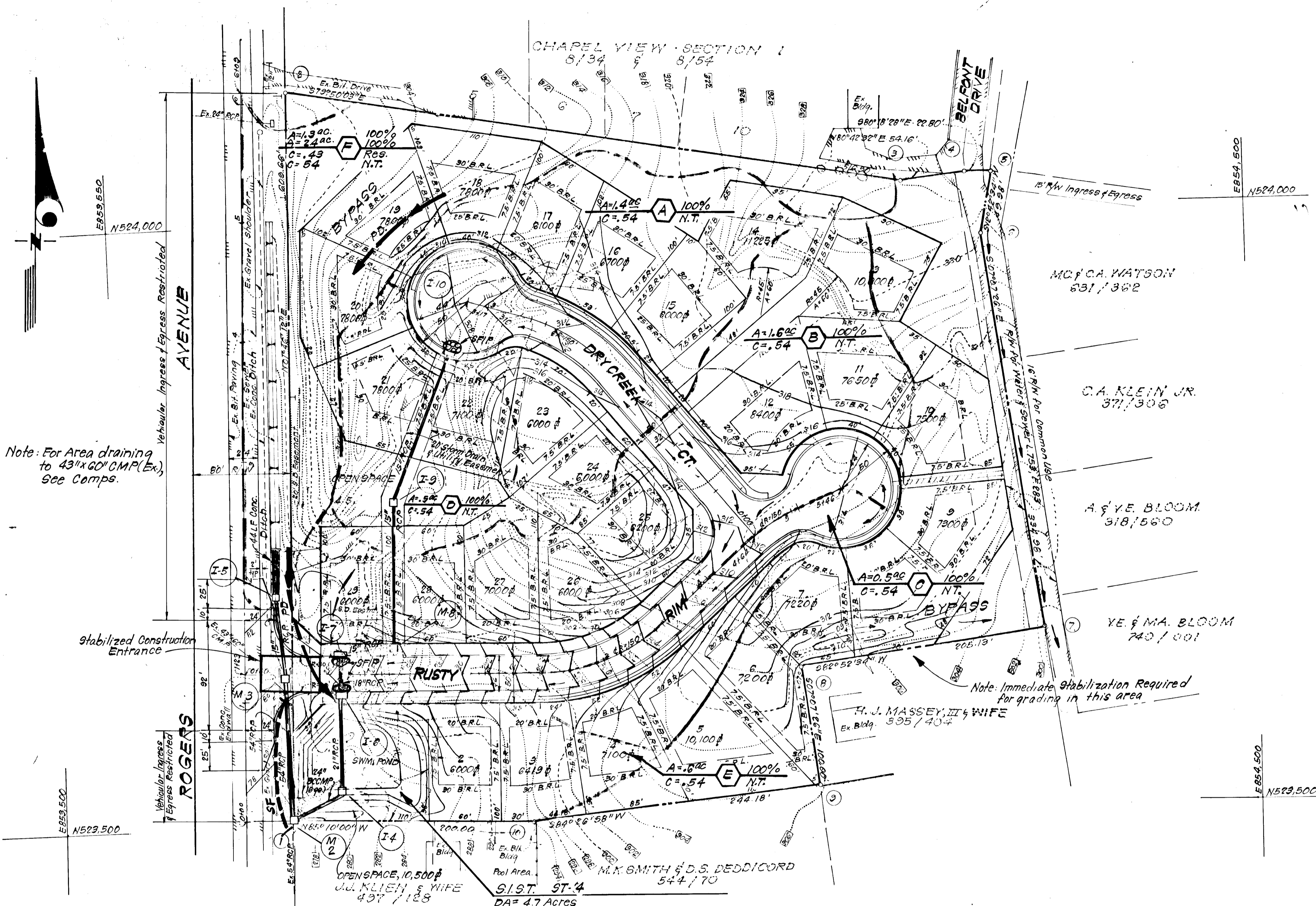
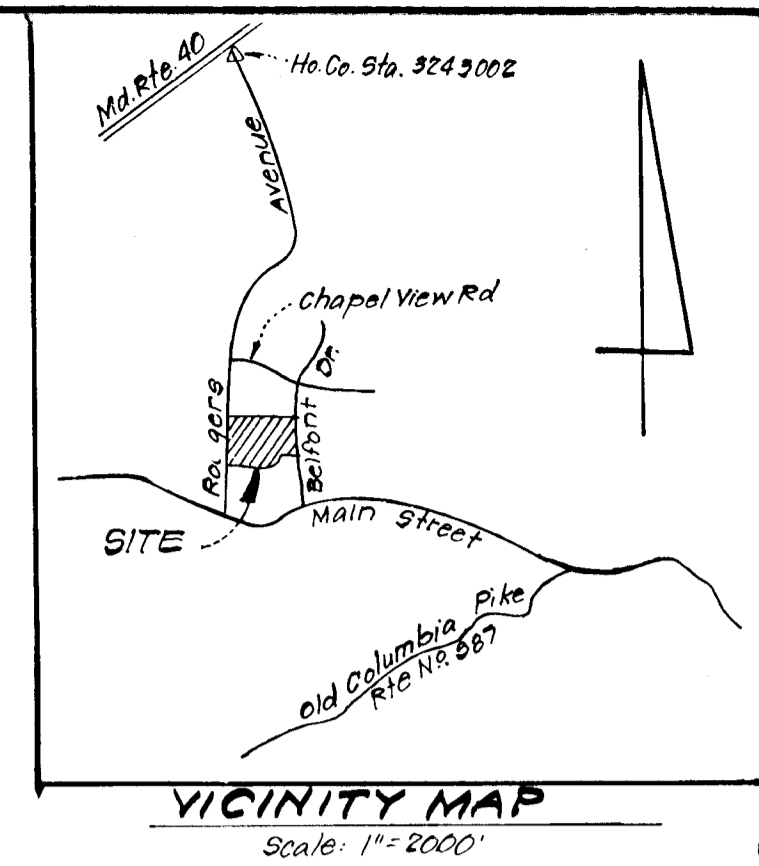
**ROAD CONSTRUCTION PLANS
PROFILES AND DETAILS
ELLCOTT HILLS**

SCALE: As Shown
DRAWING: 30x5
JOB NO.: 79-042
JOB NO.: 79-042
FILE NO.: 79-042-D

FOR: K of P Development of J D Evans
Suite 105, 11065 Little Patuxent Pkwy.
Columbia, Md 21044



Note: For OFFsite Area draining to I-5, See Comps.



Note: For Area draining to 43'x60' CMP (Ex), See Comps.

- LEGEND:**
- 1 Contour Interval 2 Ft.
 - 2 Existing Contour
 - 3 Prop Contour
 - 4 Prop Storm Drain
 - 5 Exist. Storm Drain
 - 6 Perimeter Dike
 - 7 Silt Fence
 - 8 Stone Filter Inlet Protection
 - 9 Stabilized Construction Entrance

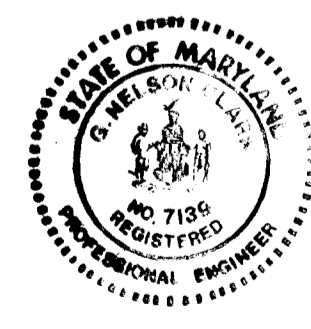
DA = 4.7 Acres
 Storage Required: 4.7 x 1800 = 8460 cft
 Storage Provided: See Storm Water Management Comps.
 See Blocking detail sht 5 for all other information.

These plans for small pond construction, soil erosion and sediment control meet the requirements of the Howard Soil Conservation District.
 Approved: Robert W. Ziehm 6-10-80
 Howard S.C.D. District Engineer

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: Don J. Beck 6-10-80
 U.S. Soil Conservation Service

DEVELOPER'S CERTIFICATE
 "I certify that all development and/or construction will be done according to these plans of development, and that construction and erosion and sediment control. I will 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."
J. L. Ciano 12-17-79
 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."
John C. Cat 12-6-77
 Signature of Engineer Date



REVISION		Date
1	Revised Storm Drainage from I-10 to I-7	7/4/80

APPROVED: Department of Public Works
William E. Rao 6-12-80
 Chief, Bureau of Engineering Date

APPROVED: Howard County, Office of Planning and Zoning
John W. Mumman 6-11-80
 Chief, Division of Land Development Date

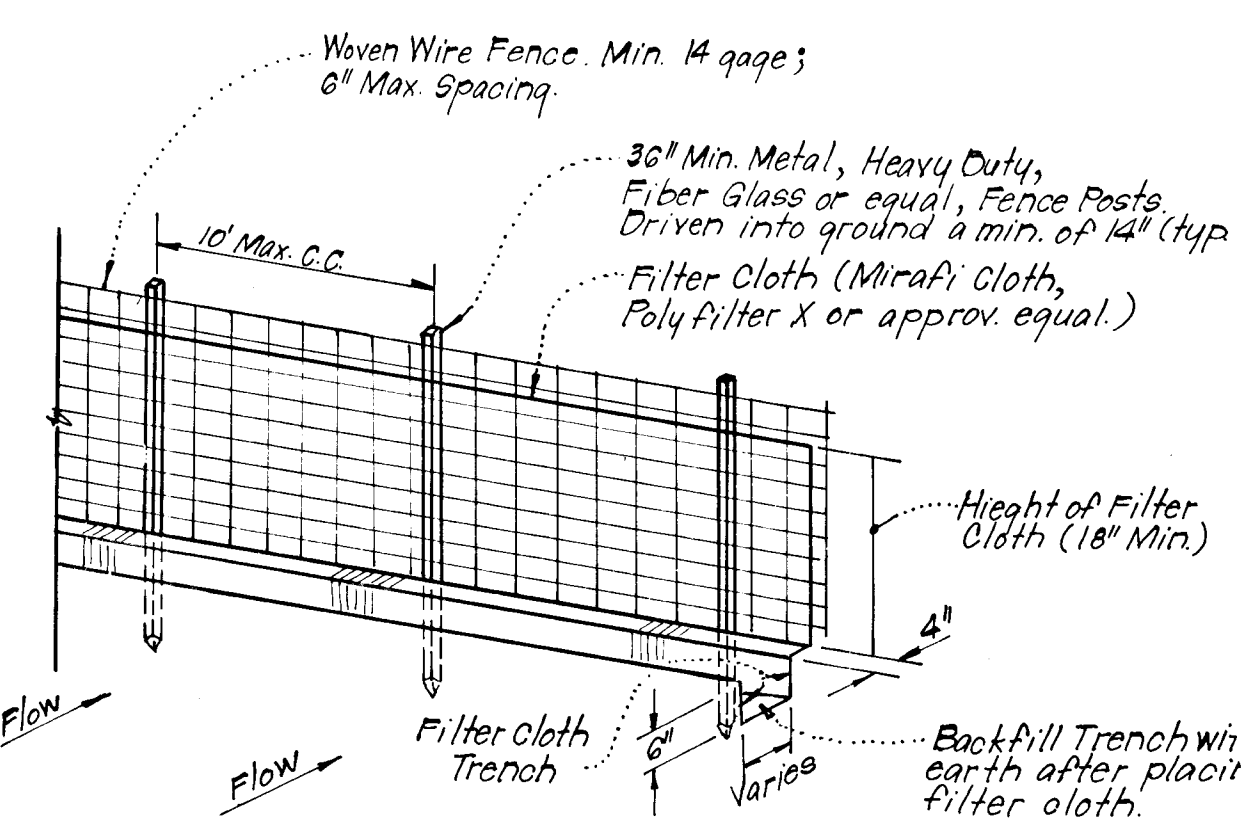
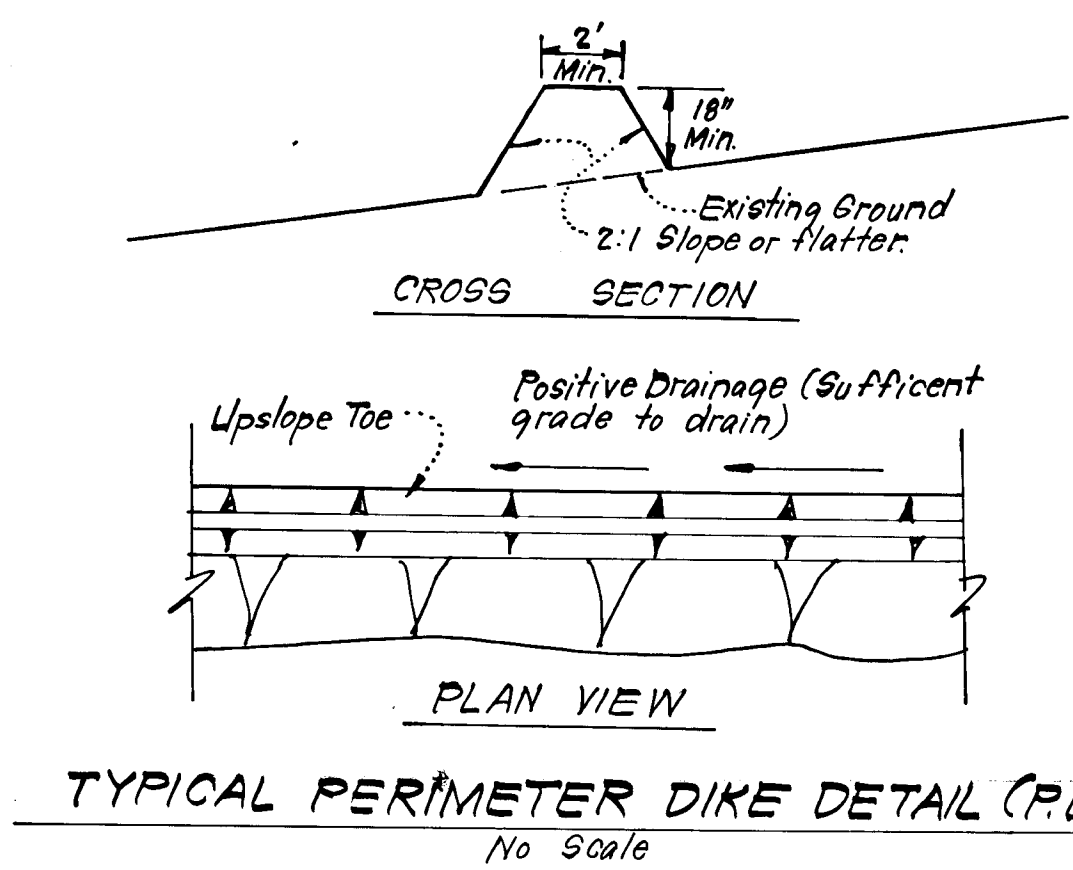
CLARK • FINEFROCK & SACKETT
 ENGINEERS • PLANNERS • SURVEYORS
 11315 LOCKWOOD DRIVE SILVER SPRING, MARYLAND 20904 (301) 593-3400

DESIGNED <u>J.L.S.</u>	ROAD CONSTRUCTION PLANS DRAINAGE AREA MAP AND SEDIMENT & EROSION CONTROL PLAN ELLICOTT HILLS A RESUBDIVISION OF LOT 1, MARIE K. SMITH PROPERTY 2ND ELECTION DISTRICT HOWARD COUNTY, MARYLAND FOR: K&P Development Co. J.D. Evans Suite 105 11065 Little Parkent. Pkwy. Columbia, Md. 21044	SCALE 1"=50'
DRAWN <u>K.I.W.</u>		DRAWING 40P 5
CHECKED <u>J.L.S.</u>		JOB NO. 79-042
DATE Dec, 1979		FILE NO. 79-042 D

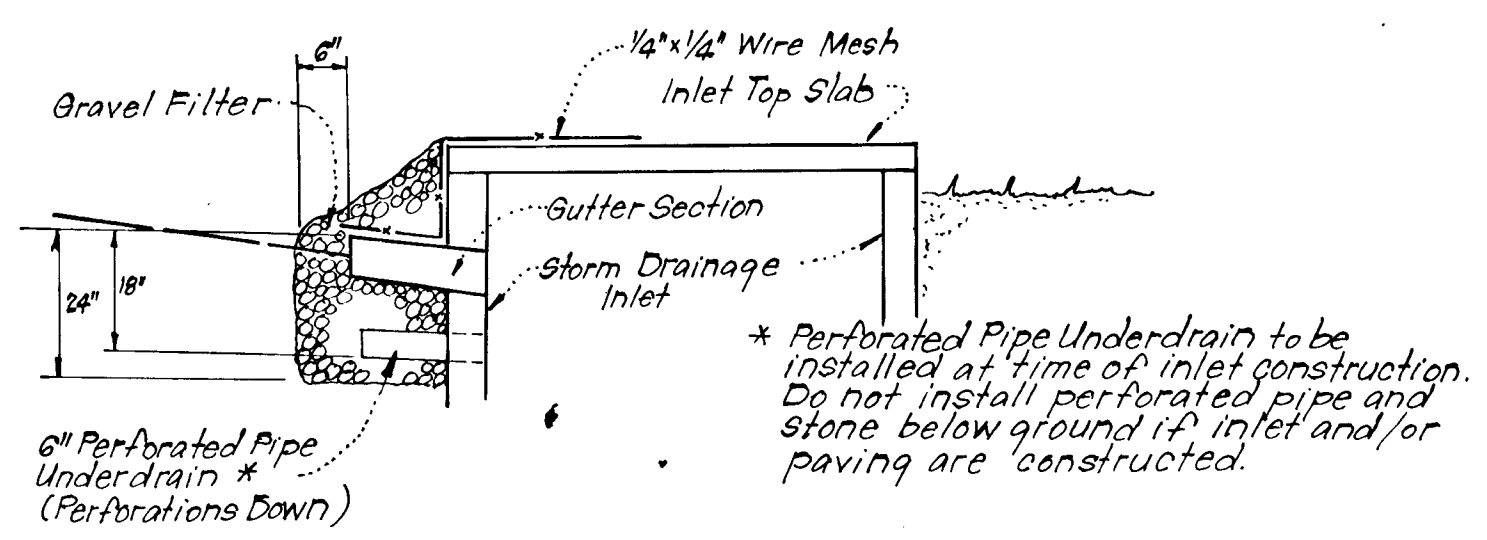
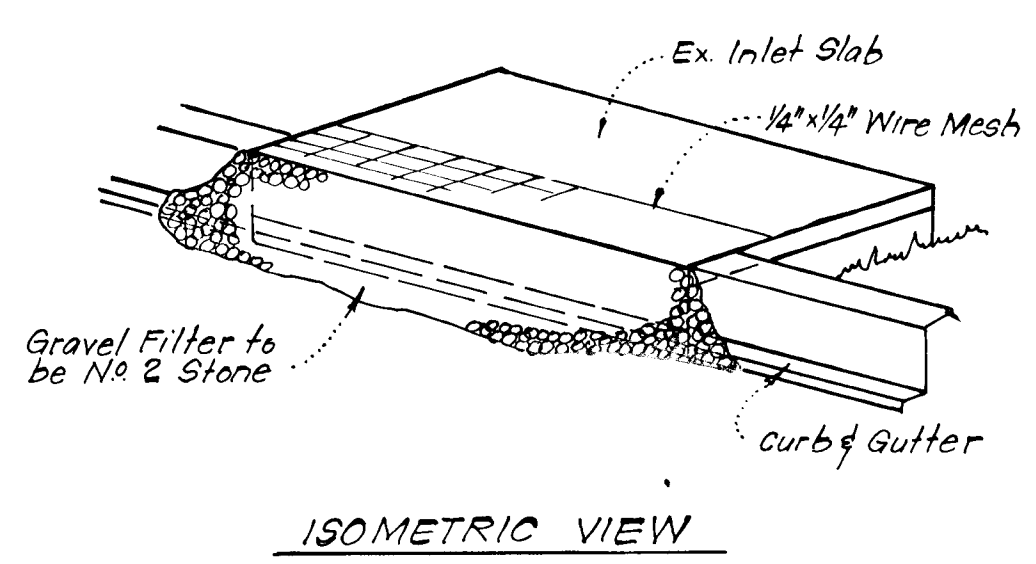
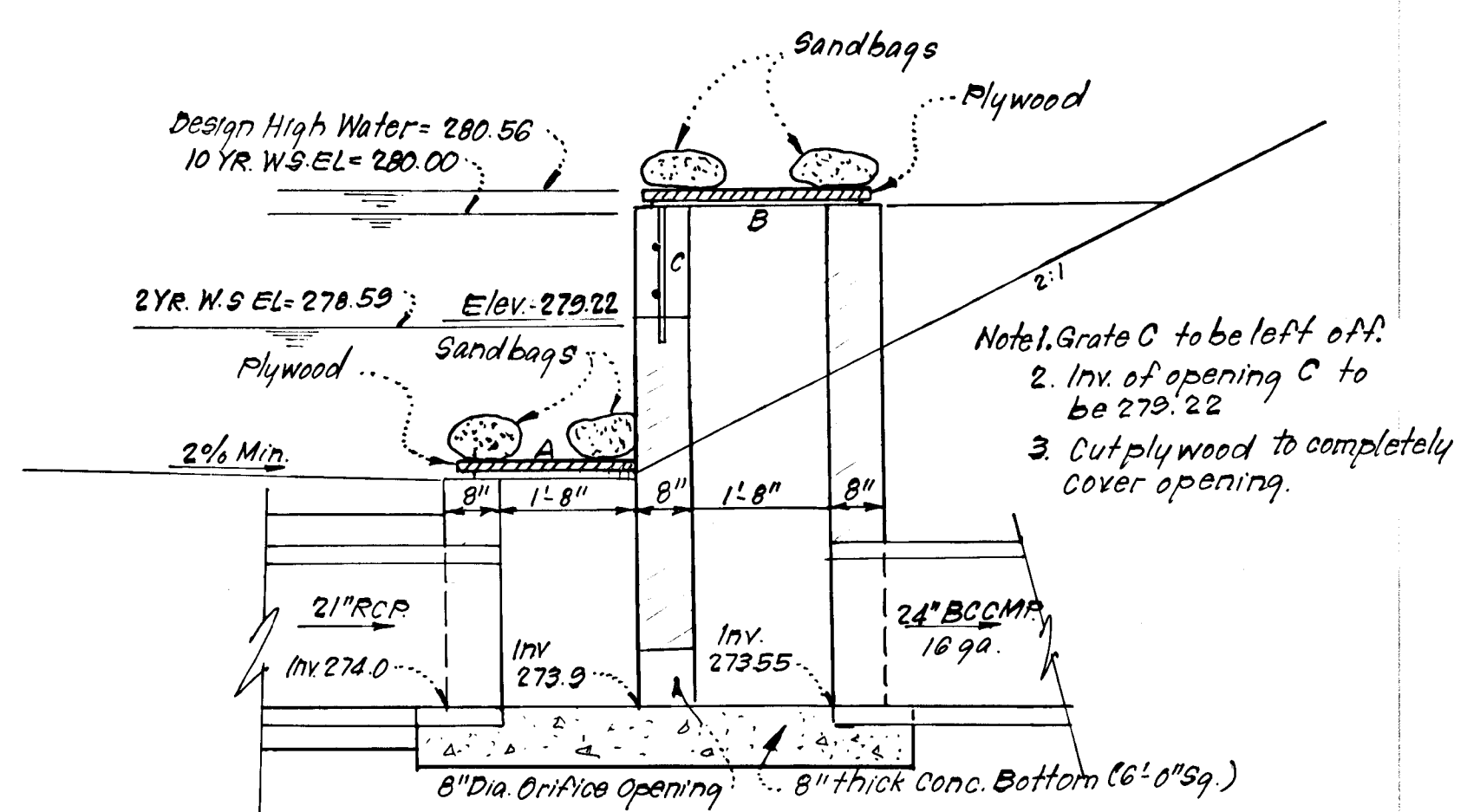
GENERAL NOTES

- 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 rye applied at a rate of 1.4 lbs/1000 sq ft.
- 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:
 - A. Seed- certified 85% germination applied at the rate of 3/lbs/1000s.f. Mixture - 40% Kentucky Blue, 20% chewing Fescue, 20% Kentucky 31 and 20% annual rye.
 - B. Fertilizer - 10-10-10 applied at a rate of 23 lbs/1000 sq ft. Ground Agricultural Lime or Dolomitic Lime applied at a rate of 46 lbs/1000s.f.
 - C. Mulch - Weed free grain straw applied at a rate of 46 lbs/1000 sq ft. Mulch shall be secured to the ground by any approved method i.e.; asphalt tacks, chemical binder, etc.
 - D. All Sod 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 planned vegetative 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 developer's 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.
- At the end of each working day the upstream end of all storm drains shall be blocked/sealed this side.
- SITE ANALYSIS:
 - Total Area: 3.069 Acres
 - Total Area to be paved: 0.909 Acres
 - Total Area to be seeded: 2.160 Acres
 - Total Area Undisturbed: 0
- CONSTRUCTION SEQUENCE:
 - Construct Storm Drainage I-5 thru M-2.
 - Install Silt Fence along Rogers Ave.
 - Install Stabilized Construction Entrance.
 - Construct S.W.M. Pond and Storm Drainage I-4 to M-2.
 - Install Perimeter Dikes
 - Rough Grade and Excavate for Roadways.
 - Construct remaining storm drainage and install S.F.I.P.'s and S.F.'s to block inlets.
 - Fine Grade and Construct Roadways.
 - Stabilize all unpaved areas in accordance with note #6.
 - After all areas have been stabilized remove S&E Control and Modify Str. I-4 in accordance with S.W.M. Plans (See sheet 3).

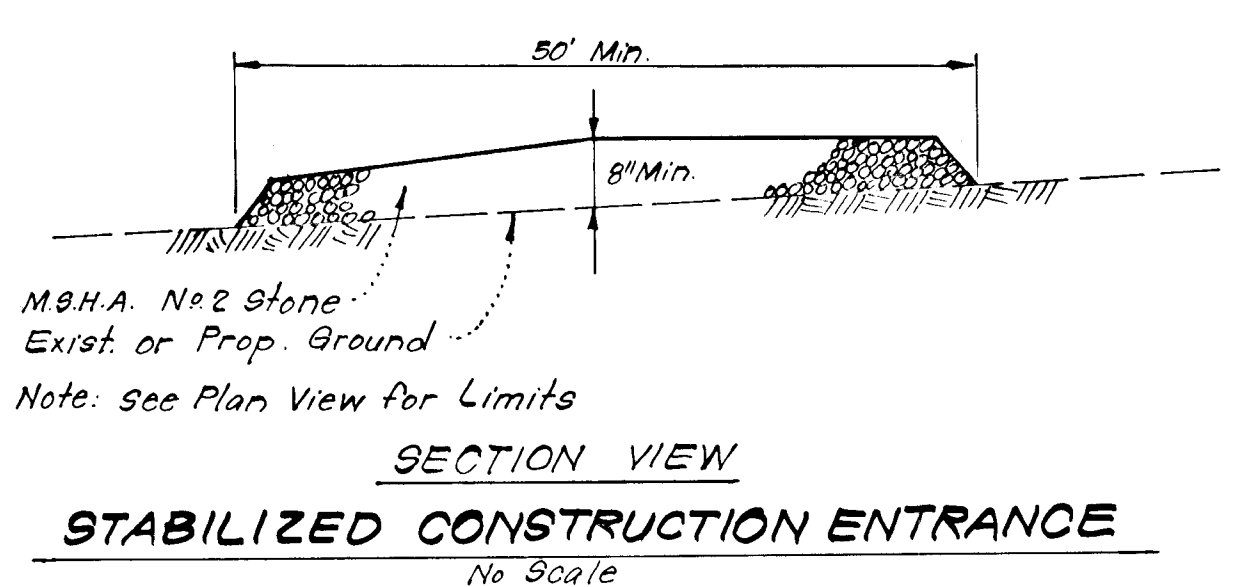
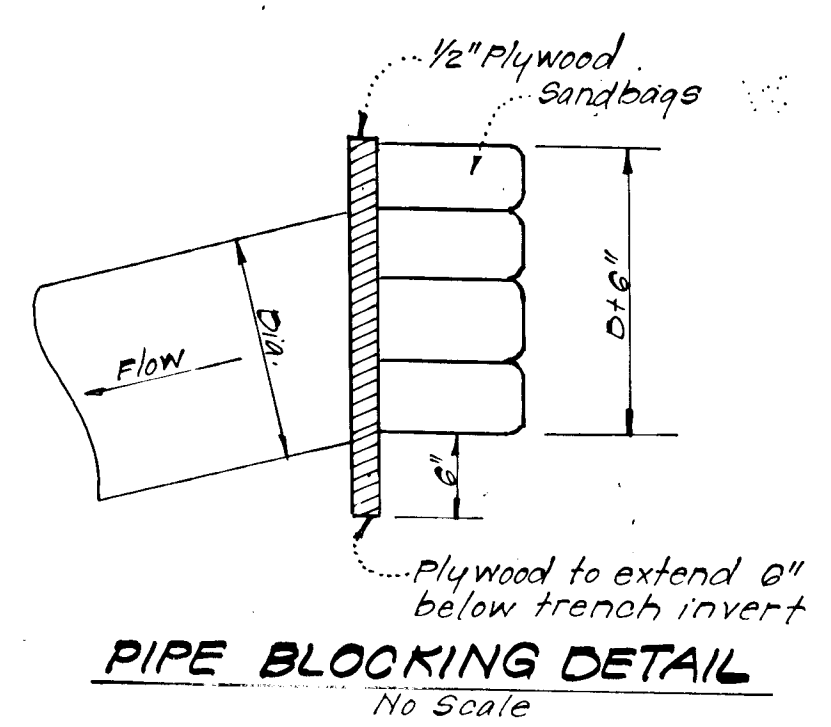
Note: Sediment Trap to be dewatered by pumping.
 2. All sediment to be removed from trap shall be placed in a protected area in such a manner that it will not erode.



- Notes:
- Woven Wire Fence to be fastened securely to fence posts by use of wire ties.
 - Filter Cloth to be fastened securely to Woven Wire, by use of wire ties spaced every 24"x24"



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



STABILIZED CONSTRUCTION ENTRANCE
 No Scale

DEVELOPER'S CERTIFICATE

"I certify that all development and/or construction will be in accordance with these plans of development, construction and erosion and sediment control. I will conduct a thorough 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."

Approved: Robert J. Ziehm 6-10-80 Date
 Howard S.C.D.

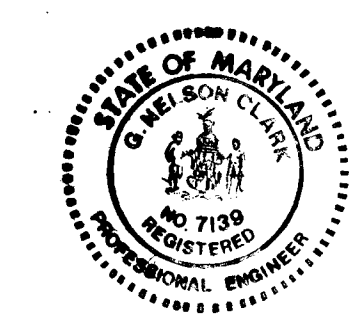
Approved: Doug J. Redner 6-10-80 Date
 U.S. Soil Conservation Service

Signature of Developer: J. W. Evans 12-17-79 Date

ENGINEER'S CERTIFICATE

"I certify that this plan for pond construction, erosion, and sediment control represents a practical and workable solution 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: J. N. Cook 12-17-79 Date



APPROVED: Department of Public Works		
<u>William E. Ray</u> Chief, Bureau of Engineering		6-12-80 Date
APPROVED: Howard County Office of Planning and Zoning		
<u>Shawn M. Marshall</u> Chief, Division of Land Development		6-11-80 Date
CLARK • FINEFROCK & SACKETT ENGINEERS • PLANNERS • SURVEYORS		
11315 LOCKWOOD DRIVE SILVER SPRING MARYLAND 20904 (301) 593-3400		
DESIGNED J.L.S.	ROAD CONSTRUCTION PLANS SEDIMENT & EROSION CONTROL PLAN	SCALE As Shown
DRAWN K.I.W.	ELLCOTT HILLS A RESUBDIVISION OF LOT 1 MARIE K. SMITH PROPERTY 2ND ELECTION DISTRICT HOWARD COUNTY, MARYLAND	DRAWING 5 of 5
CHECKED J.L.S.		JOB NO. 79-042
DATE Dec, 1979	FOR: K of P. Development % J.D. EVANS Suite 105, 11065 Little Patuxent PKWY Columbia, Md 21044	FILE NO. 79-042-D