

- GENERAL NOTES:**
- All storm drain and paving shall be constructed in accordance with the latest details and specifications of Howard Co. and MD S&A.
 - Types of storm drain structures refer to the standard details of Howard County & Maryland State Highway Administration.
 - Trench compaction for storm drains within Road or street right of way limits shall be in accordance with Howard County Design Manual II.
 - Information concerning underground utilities was obtained from available records, but the contractor must determine the exact location and elevation 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 Uniform 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 AASHTO.
 - Provide concrete sidewalk ramps in curbs, where shown in plan See Ho. Co. Std. Type A, R 4.01.
 - Design Speed: 30 mph, 50' R/W; 35 mph, 60' R/W, Zoning RSA
 - Class C Trench bedding shall be used for all storm drainage construction unless otherwise noted. See Ho. Co. Std. SD 2.03.
 - See Previously Approved Plans for Asbury Woods, Sect. 1 Area 1 for Profile grade of Access Rd. F-83-110
 - This Project is to be coordinated with Asbury Woods Sect. 1 Area 1, F-83-110.

APPROVED: Department of Public Works

[Signature]
 Chief, Bureau of Engineering
 Date: 10-11-83

APPROVED: Howard County Office of Planning & Zoning

[Signature]
 Chief, Division of Land Development & Zoning Administration
 Date: 10/1/83



[Signature]
 8-10-83

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

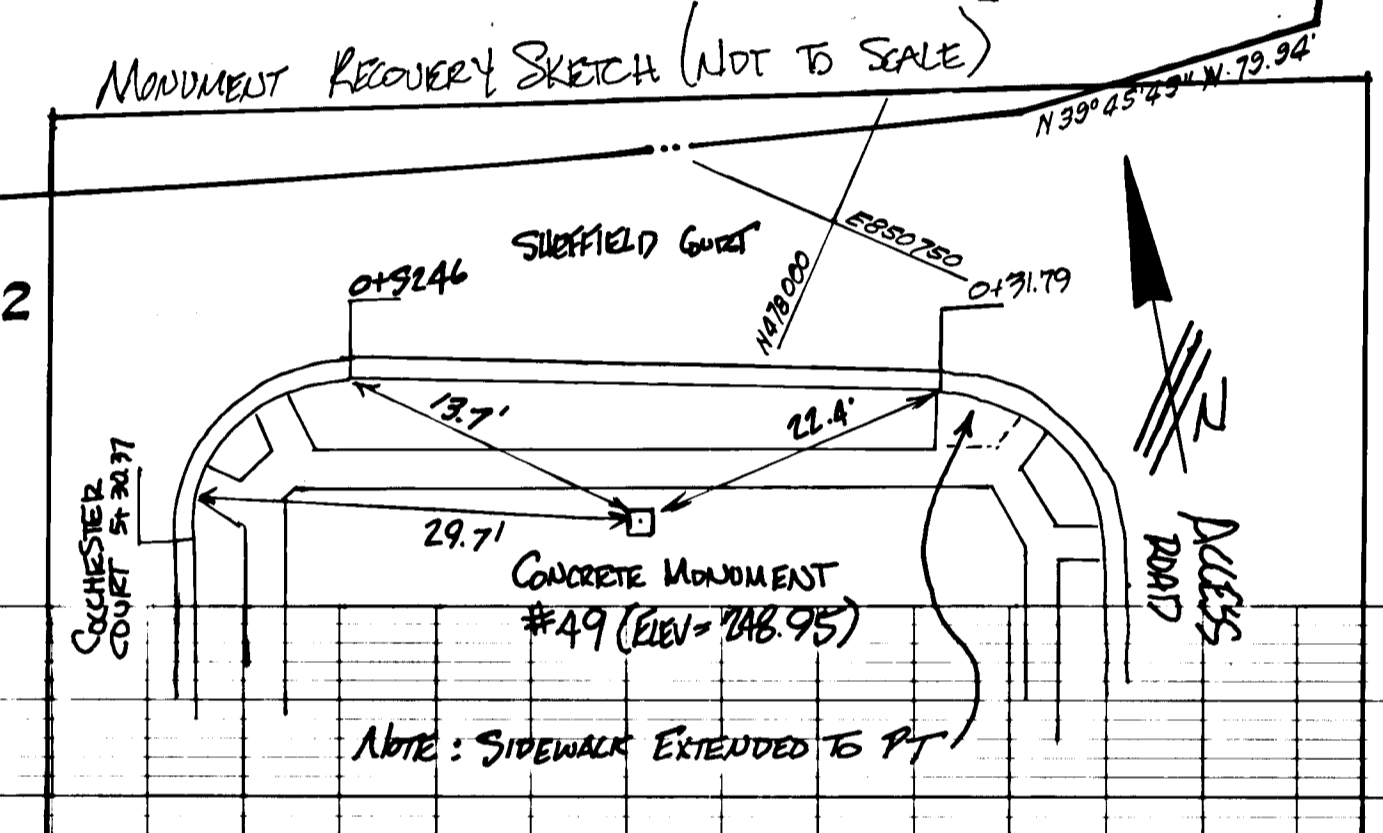
DESIGNED	VLS	SCALE	AS SHOWN
DRAWN	KIW	DRAWING	1 OF 4
CHECKED	VLS	JOB NO.	82-068
DATE	8-10-83	FILE NO.	82-068-D

ROAD CONSTRUCTION PLANS
 SHEFFIELD COURT & COLCHESTER CT.
 AND ACCESS ROAD

ASBUILT

SECTION 1, AREA 3
 6TH ELECTION DISTRICT
 HOWARD COUNTY, MARYLAND

FOR: Beach Creek Associates
 3807 Quaker Foot Lane
 Ellicott City, Md. 21043



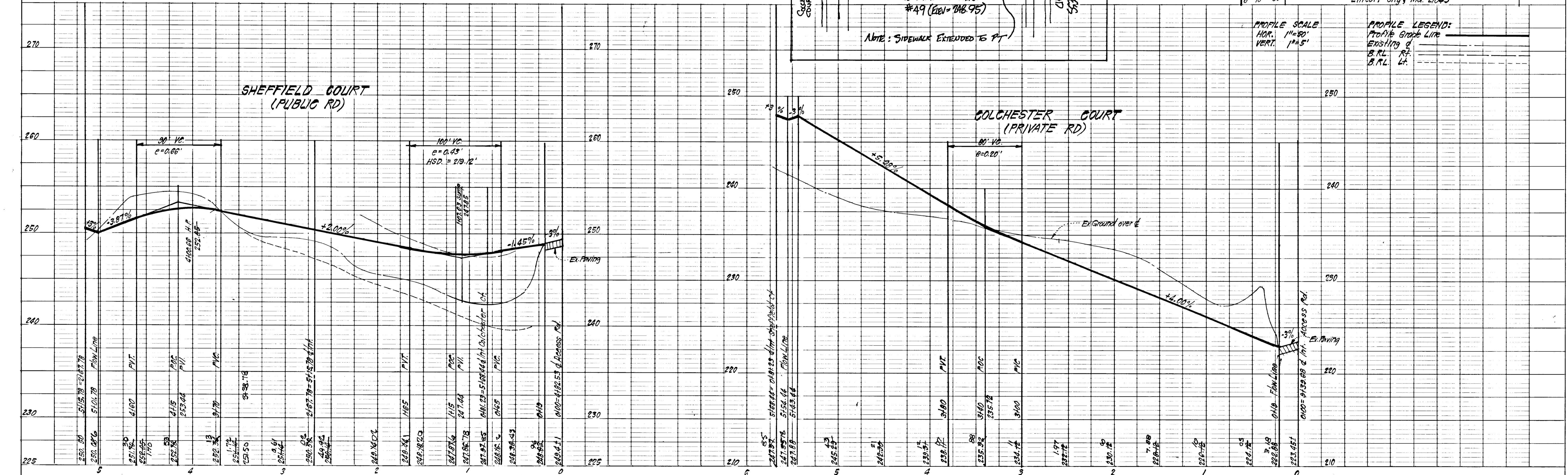
RELOCATED

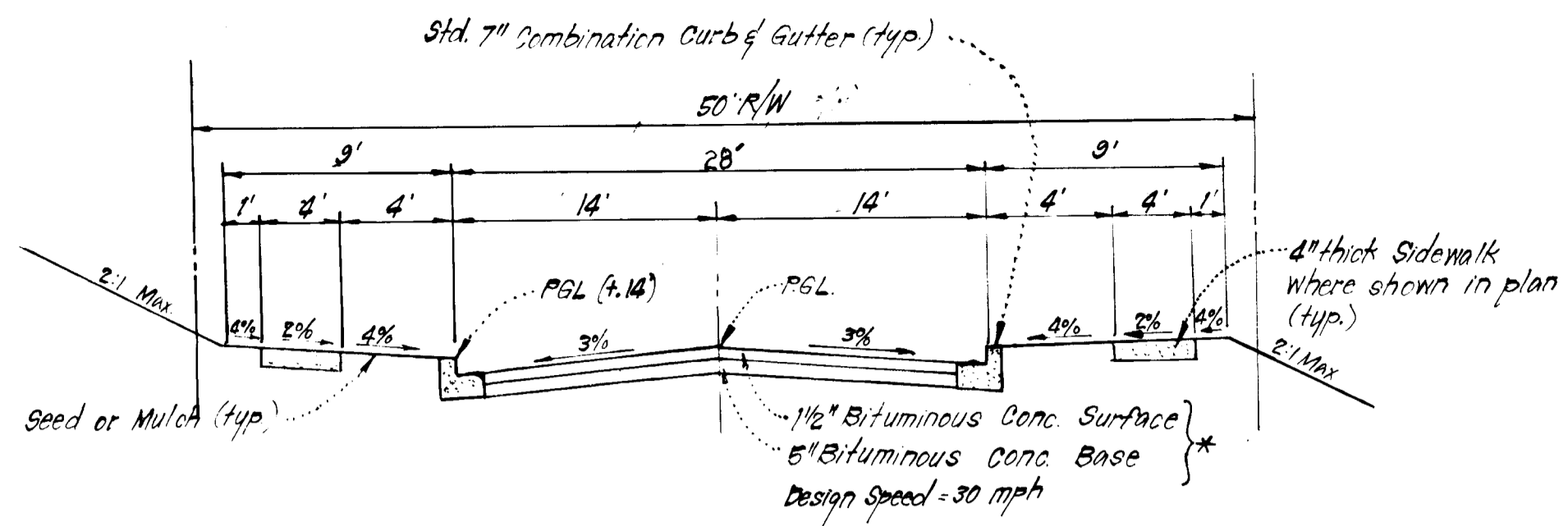
CURVE DATA
 PC: 0157.64 to PVI: 210.52
 R=1500.00
 Δ=58°50'23"
 L=152.86'
 T=76.51'
 CHD=152.81'

CURVE DATA
 PC: 210.52 to PT: 317.31
 R=1000.00
 Δ=108°18'30"
 L=164.79'
 T=82.59'
 CHD=84.80'

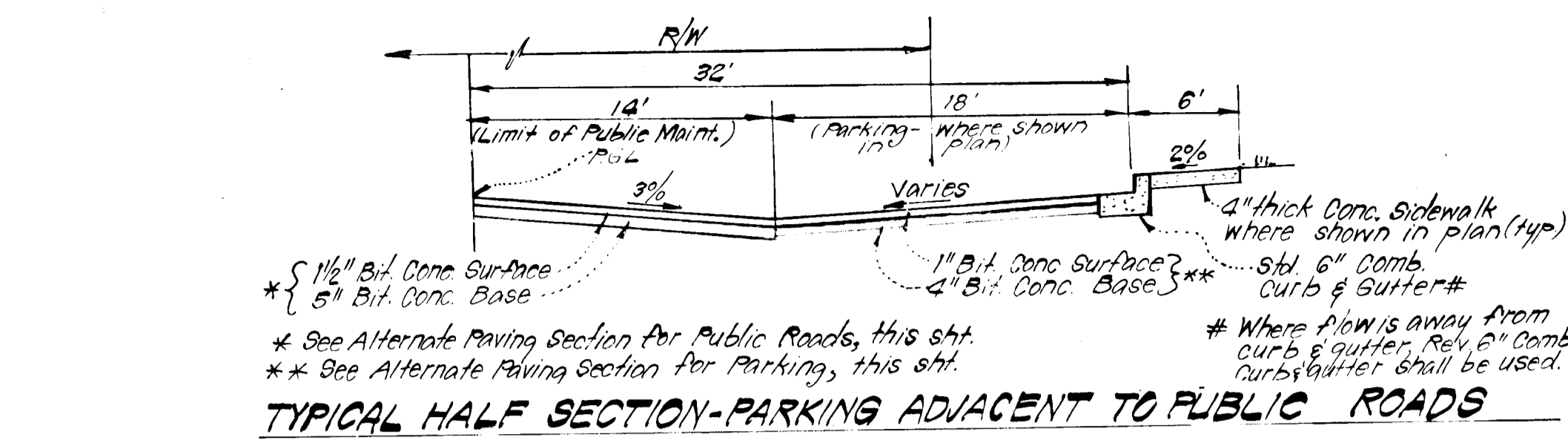
CURVE DATA
 PC: 4135.31 to PT: 5188.44
 R=170.00
 Δ=44°13'10"
 L=133.13'
 T=70.13'
 CHD=129.75'

PLAN
 SCALE: 1"=50'





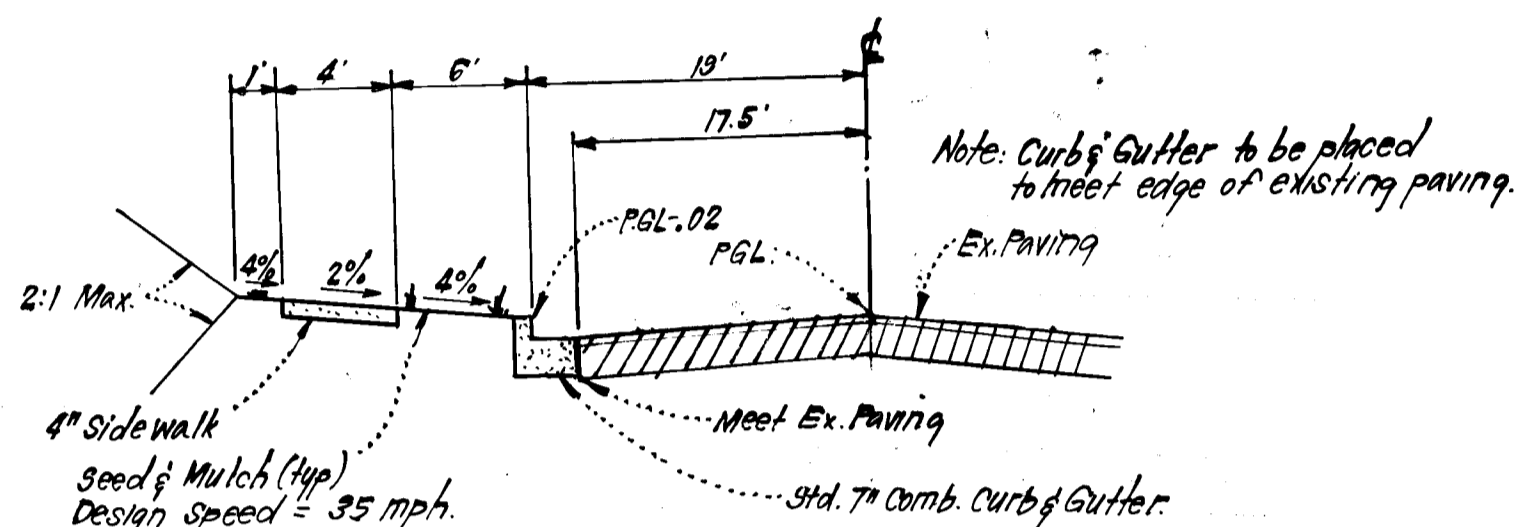
TYPICAL PAVING SECTION - PUBLIC ROADS (CUL-DE-SAC)
SHEFFIELD COURT STA. 0+00 TO 1+29.78
NO SCALE



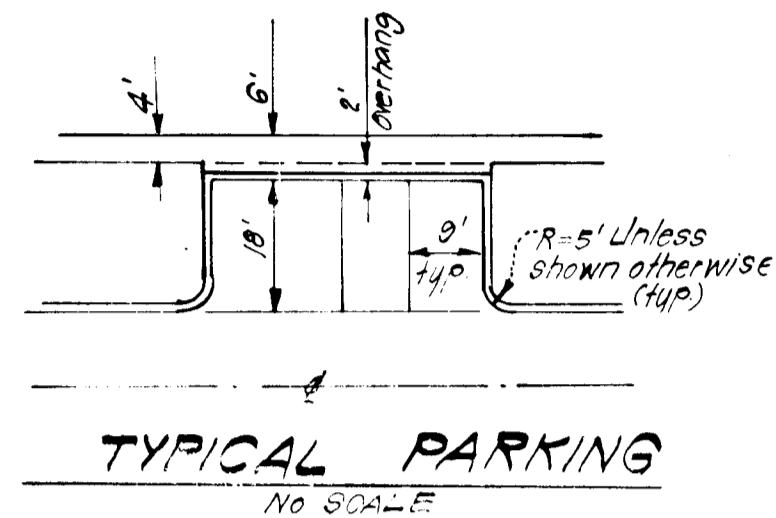
TYPICAL HALF SECTION - PARKING ADJACENT TO PUBLIC ROADS
SHEFFIELD CT. STA. 1+29.78 TO 5+15.78
NO SCALE

STRUCTURE SCHEDULE						
No.	TYPE	INV. IN	INV. OUT	TOP ELEVATION		REMARKS
				UPPER	LOWER	
* I-11	A-5 Inlet W/Deflec.	225.30	Ex. 220.50	225.21	224.97	Ho. Co. Sid. SD 4-01 W/2'-6" Inlet Sta. 0+96 Acc. Rd. 19' R.F.
* I-12	A-10 Inlet W/Deflec.	225.30	222.50	226.20	225.76	" SD 4-02 W/2'-6" Inlet Sta. 0+93 Colch. Ct. 12' R.F.
M-13	Brick Manhole	235.26	235.26	246.00	245.15	" G-5.02 5'-0" R.F. See Plan
I-12	A-10 Inlet	241.87	241.87	247.98	247.98	" SD 4-02 W/2'-6" Inlet Sta. H.B. 68 Shef. Ct. 14' R.F.
* I-17	A-10 Inlet	243.80	243.80	247.50	247.50	" SD 4-11 2'-6" R.F. See Plan
M-18	Shallow Manhole	258.00	248.97	257.30	250.17	" G-5.05 48" Sq. See Plan
M-19	Shallow Manhole	264.50	259.30	268.00	267.91	" G-5.05 48" Sq. See Plan

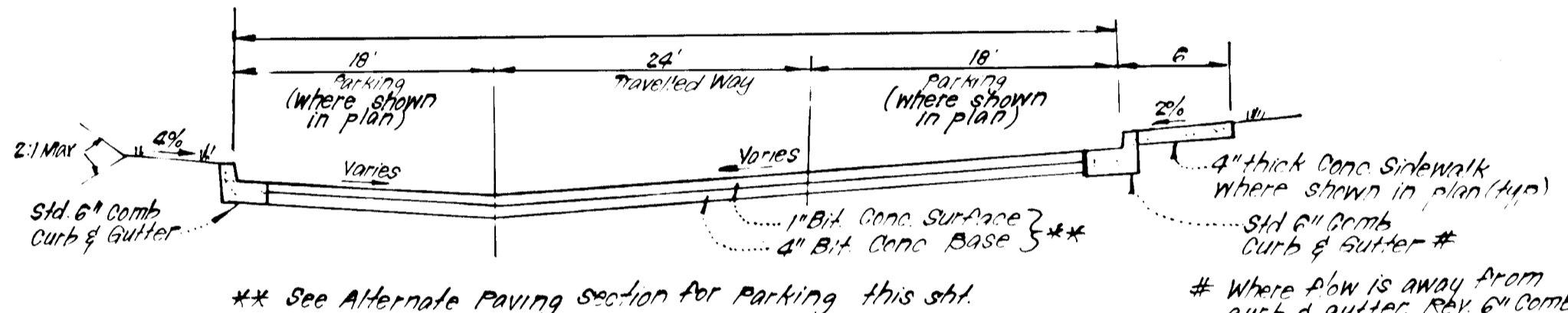
* See Ho. Co. Sid. SD 4-83 for Inlet Deflectors
 † All Inverts to be fully developed.
 # Provide slots in all sides.



TYPICAL HALF SECTION - ACCESS ROAD
(MINOR COLLECTOR)
NO SCALE



TYPICAL PARKING
NO SCALE



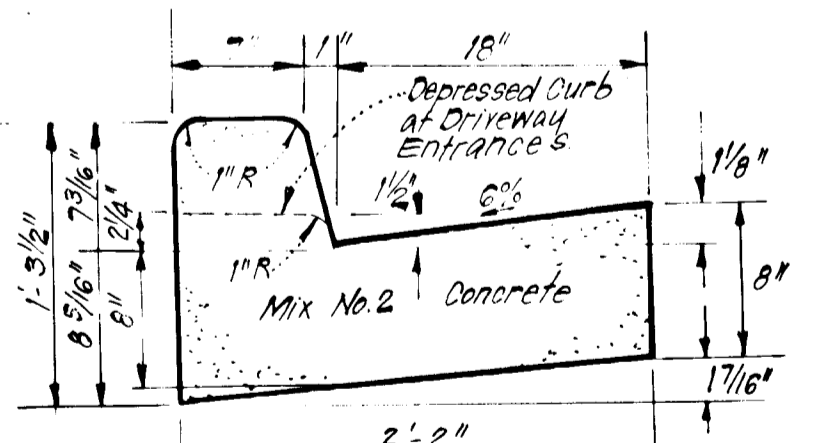
TYPICAL SECTION - PRIVATE DRIVE & PARKING
COLCHESTER COURT
NO SCALE

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

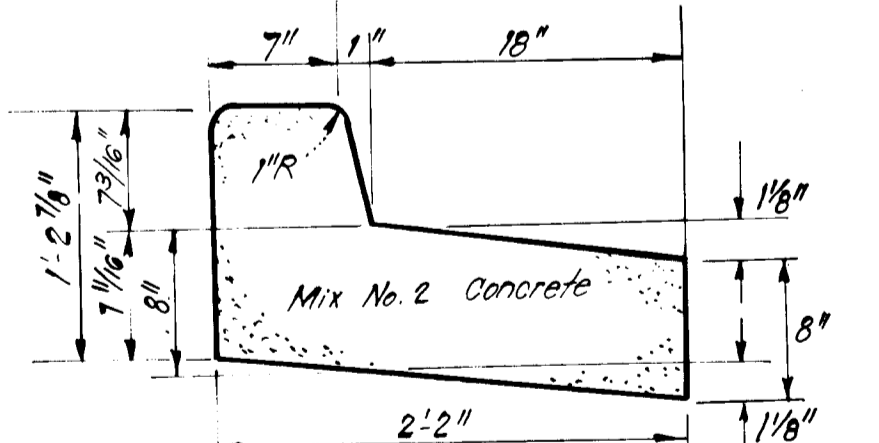
Bituminous Conc. Surface	1"
Bituminous Conc. Base	2"
Prime	1"
5" Crusher Run Base Course	5"
or	4"
4" Dense Graded Stabilized Aggregate Base Course	4"

ALTERNATE PAVING SECTION FOR PUBLIC ROADS
NO SCALE

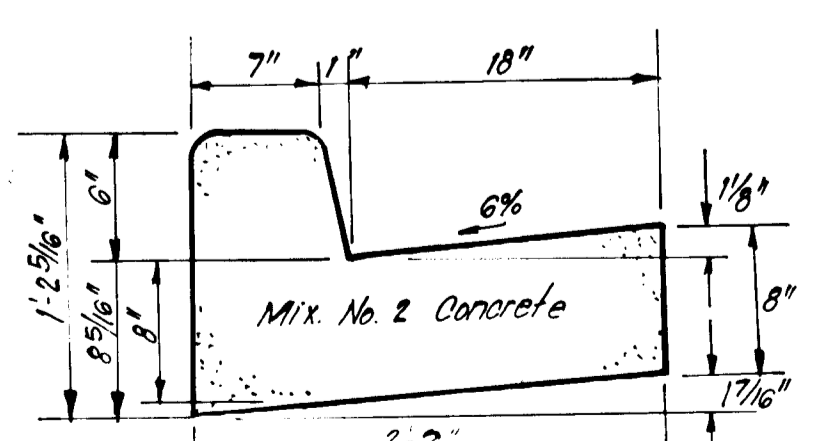
ALTERNATE PAVING SECTION FOR PARKING AREAS
NO SCALE



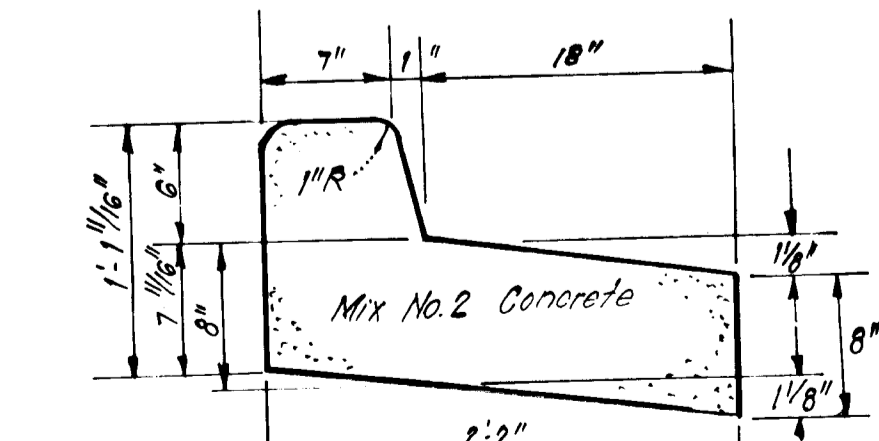
STANDARD 7" COMBINATION CURB & GUTTER
NO SCALE



REVERSE 7" COMBINATION CURB & GUTTER
NO SCALE



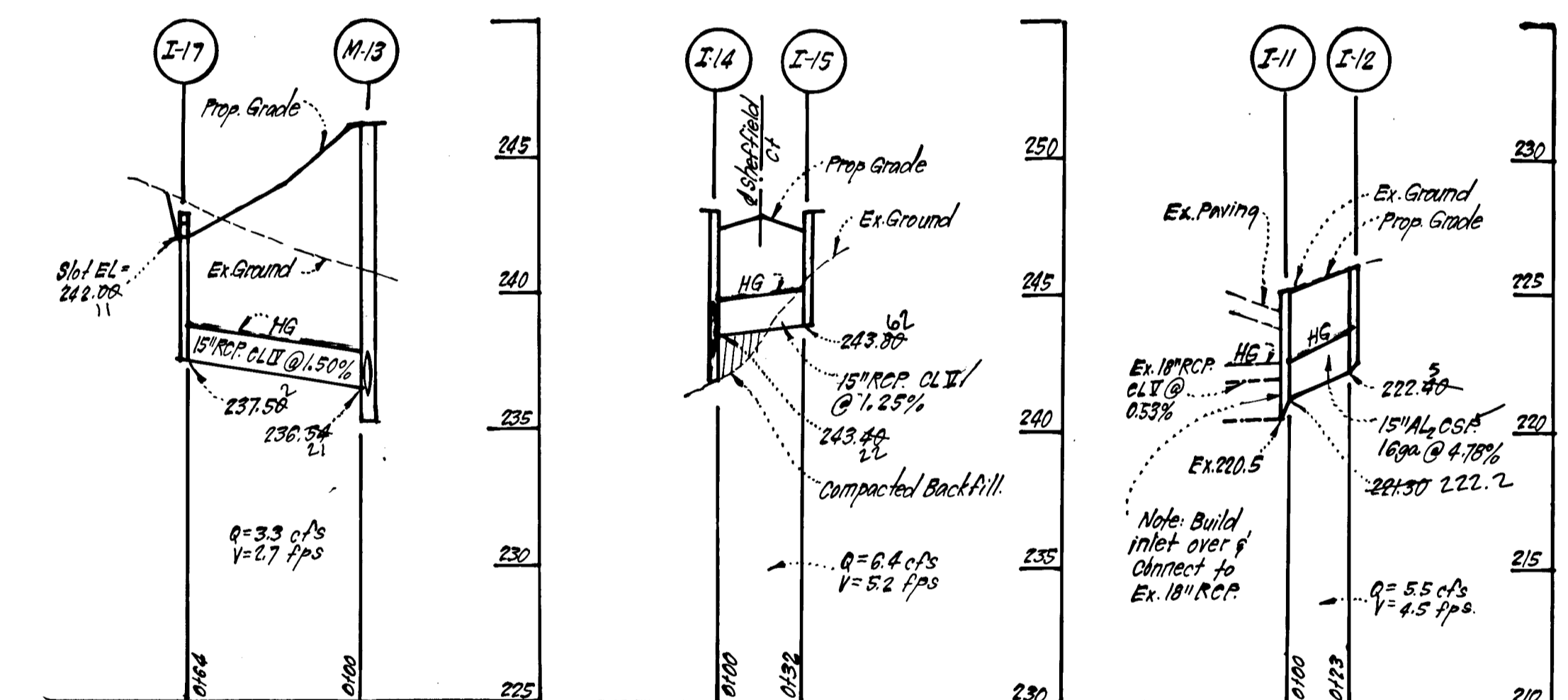
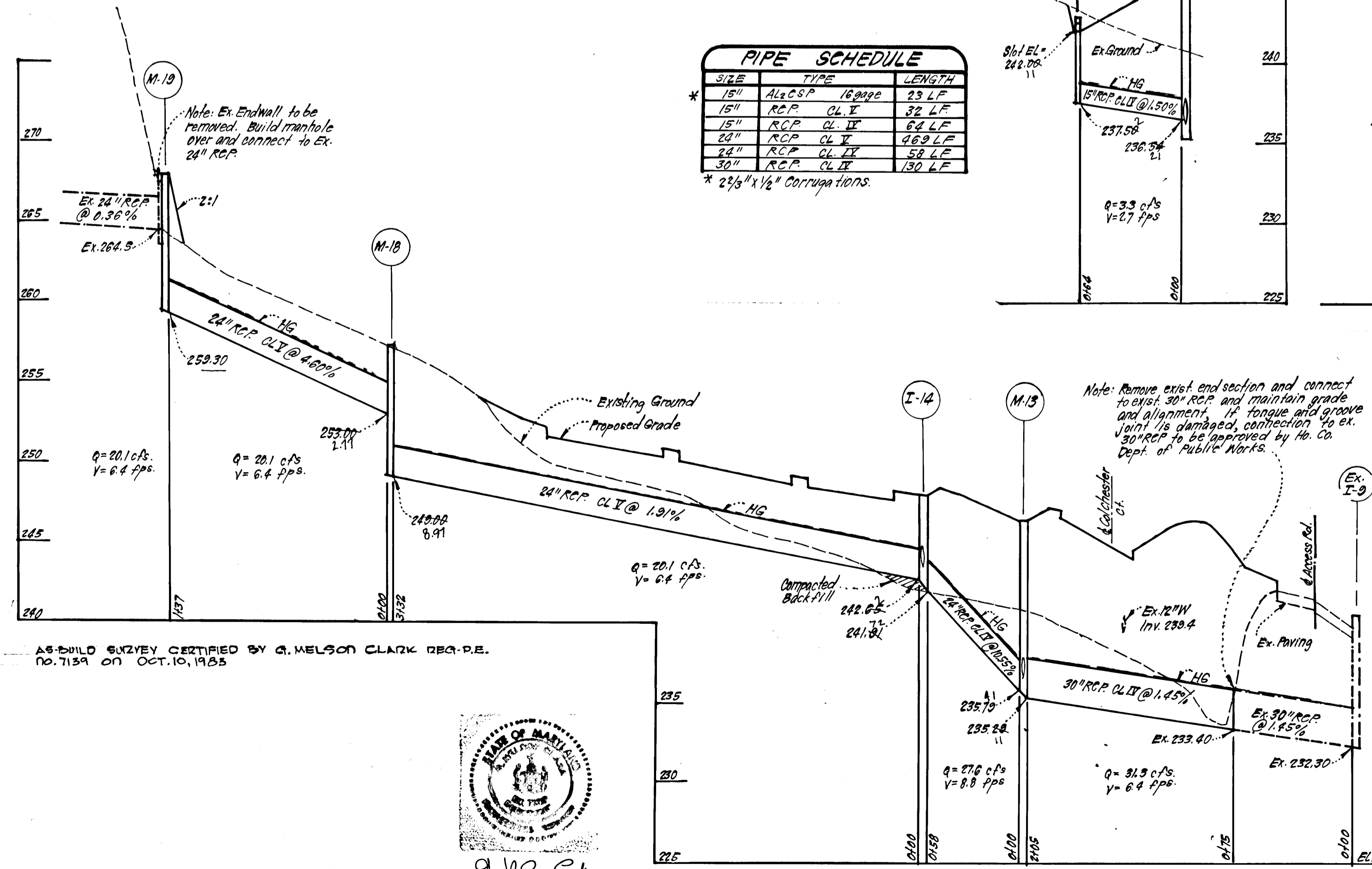
STANDARD 6" COMBINATION CURB & GUTTER
NO SCALE



REVERSE 6" COMBINATION CURB & GUTTER
NO SCALE

PIPE SCHEDULE		
SIZE	TYPE	LENGTH
15"	ALCSP 16 Gauge	23 LF
15"	RCP CL II	32 LF
15"	RCP CL IV	64 LF
24"	RCP CL IV	469 LF
24"	RCP CL IV	58 LF
30"	RCP CL IV	130 LF

* 2 1/2" x 1/2" Corrugations.



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

AS-BUILT SURVEY CERTIFIED BY G. MELSON CLARK REG. P.E.
No. 7139 ON OCT. 10, 1983



G. M. CLARK
8-10-83

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

"AS-BUILT"

APPROVED: Department of Public Works
 Chief, Bureau of Engineering
 APPROVED: Howard County Office of Planning and Zoning
 Chief, Division of Land Development & Zoning Administration

10-17-83

CLARK · FINEFROCK & SACKETT
 ENGINEERS · PLANNERS · SURVEYORS
 11314 LOCKWOOD DRIVE · SILVER SPRING, MARYLAND 20904 · (301) 593-3400

DESIGNED	VLS	ROAD CONSTRUCTION PLANS	SCALE	As Shown
DRAWN	KIW	ASBURY WOODS	DRAWING	20F4
CHECKED	VLS	SECTION 1 AREA 3	JOB NO.	82-068
DATE	8-10-83	6TH ELECTION DISTRICT HOWARD COUNTY, MARYLAND	FILE NO.	82-068 L

FOR: Beach Creek Associates
 3967 Ducks Foot Lane
 Poolesville, Md. 21043

4/26/88 11:00 AM F-84-28

CONSTRUCTION SEQUENCE

1. Install SBD/GP and cleanup & repair existing sediment & erosion control measures, and construct S.O.S.
2. Construct storm drainage.
3. Construct utilities.
4. Stabilize all other disturbed areas onsite in accordance with state & specs.
5. Fine grade and construct paving, sidewalks, etc.
6. Remove sediment & erosion control measures after all areas draining to them have been stabilized.

A=0.290 100% RSA
C=53

A=2.400 35% RSP
C=46 65% LAWN

A=0.800 50% RSP
C=58 50% LAWN

A=2.300 10% RSP
C=28 90% LAWN

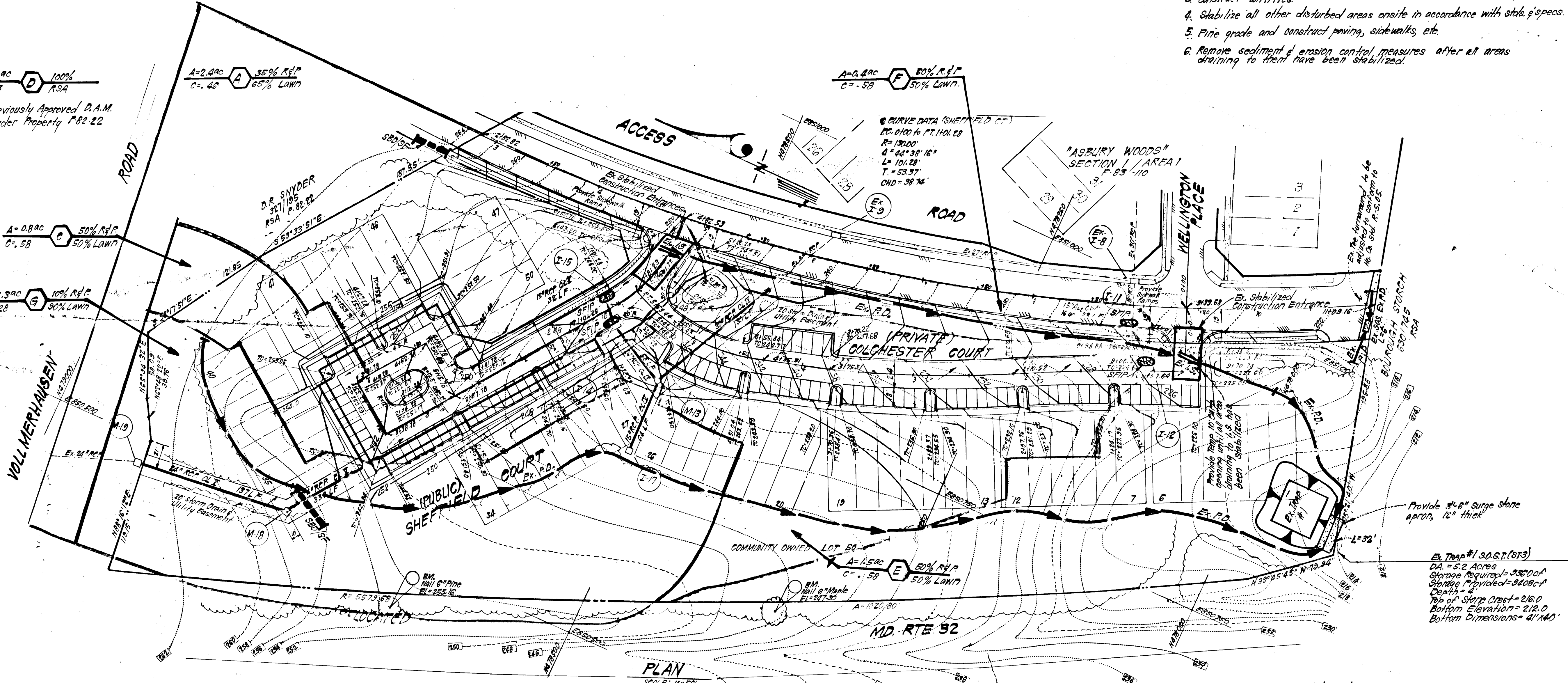
See Previously Approved D.A.M.
For Snyder Property P-82-22

A=0.800 50% RSP
C=58 50% LAWN

CURVE DATA (SHEET FIELD OF)
PC: 0+00.00 PT. 110+12.8
P=120.00'
Δ=44°38'16"
L=101.28'
T=53.37'
CHD=38.74'

"ASBURY WOODS"
SECTION 1 / AREA 1
F-83-110

- LEGEND:**
1. Contour Interval 2 FT.
 2. Existing Contour
 3. Proposed Contour
 4. Existing Perimeter Dike
 5. Existing Interceptor Swale
 6. Straw Bale Dike or Silt Fence
 7. Stone Filter Inlet Protection
 8. Perimeter Dike

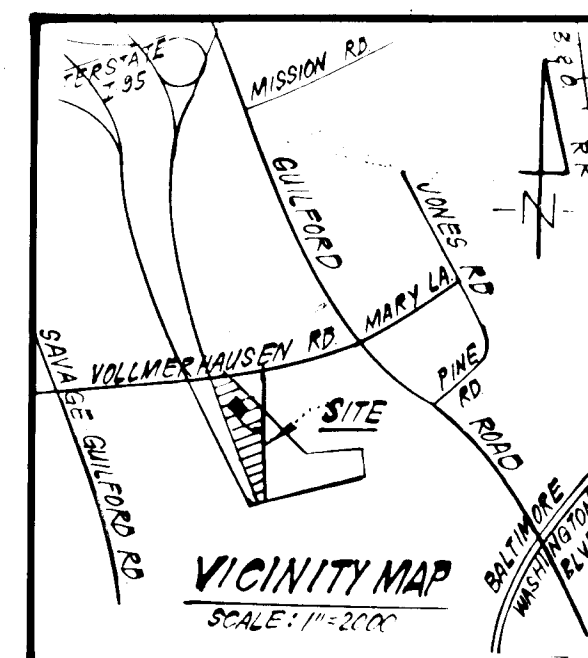


Provide 3'-6" surge stone apron, 12" thick

Ex. Trap #1 30 S.T. (GRS)
DA = 5.2 Acres
Storage Required = 1,000 cu ft
Storage Provided = 3,400 cu ft
Depth = 4'
Top of Stone Crest = 216.0
Bottom Elevation = 212.0
Bottom Dimensions = 41' x 40'

Note: Inlet I-17 to be blocked by brick & mortar.

Note: For existing sediment & erosion control measures shown, see previously approved rough grading plan P-83-48.



"IS BUILT"

Reviewed for... *Howard Co.* S.C.D.
Name
Requirements
Date
U.S. Soil Conservation Service

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

W. Nelson Clark 10-19-83
Approved Date

ENGINEER'S CERTIFICATE

I hereby certify that all development and construction will be done according to this plan of development and plan for erosion and sediment control and that all responsible personnel involved in the construction have a Certificate of Attendance at a Dept. of Natural Resources Approved Training Program for the Control of Sediment and Erosion before beginning the project. I also authorize periodic on-site inspection by the Howard Soil Conservation District or their authorized agents, as are deemed necessary.

E. Hallinger 8-10-83
Signature Date

ENGINEERS 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 8-10-83
Signature Date

APPROVED: Department of Public Works

W. Nelson Clark 10-19-83
Chief, Bureau of Engineering Date

APPROVED: Howard County Office of Planning & Zoning

W. Nelson Clark 10-19-83
Chief, Division of Land Development & Zoning Administration Date

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

DESIGNED	WLS	SCALE	As Shown
DRAWN	KTW	DRAWING	3044
CHECKED	JLS	JOB NO.	82-068
DATE	8-10-83	FILE NO.	82-068-D

ROAD CONSTRUCTION PLANS
SEDIMENT & EROSION CONTROL PLAN & DRAINAGE AREA MAP
ASBURY WOODS
SECTION 1, AREA 3
6TH ELECTION DISTRICT
HOWARD COUNTY, MARYLAND
FOR: Beach Creek Associates
3267 Quicks Foot Lane
Ellicott City, Md 21043

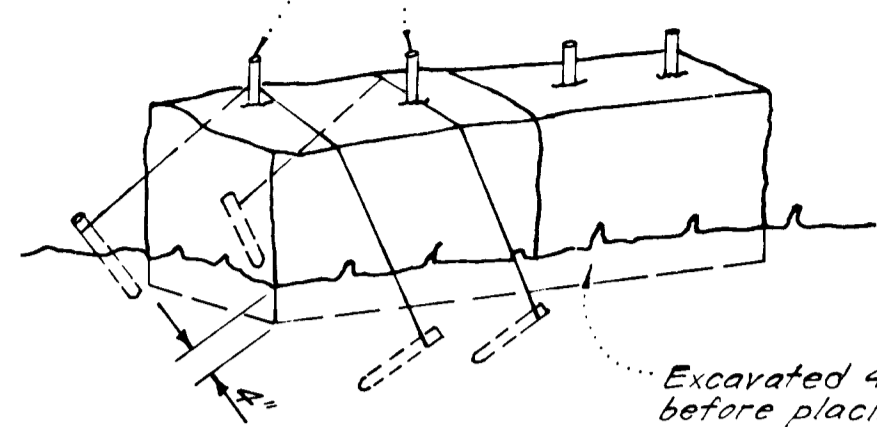


GENERAL NOTES

- 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 surfade of the site. See note #6 for stabilization except that the seed mixture will be annual rye applied at a rate of 14 lbs/1000 sf.
- 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 disturbed area to be stabilized in accordance with the following Specifications:
 - Seed - certified 85% germination applied at the rate of 3lbs/1000 sf. Mixture - 40% Kentucky Blue, 20% chewing Fescue, 20% Kentucky 31 and 20% annual rye.
 - Fertilizer - 10-10-10 applied at a rate of 23 lbs/1000 sf. Ground Agricultural Lime or Dolomitic Lime applied at a rate of 90 lbs/1000 sf.
 - Mulch - Weed free grain straw applied at a rate of 70-90 lbs/1000 sf. Mulch shall be secured to the ground by any approved method i.e.; asphalt tacks, chemical binder etc.
 - 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 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.
- Approval of this plan is conditional upon the approval of Sediment Control Plan for the off-site waste or borrow area prior to the import of any borrow or export of waste to or from this site.
- All pipes to be blocked at the end of each day. See detail this sheet.
- Total Amount of Straw Bales or Silt Fence shown = 70 L.F.
- SITE ANALYSIS:
 - Total Area: 6.9585 Acres
 - Area to be Roofed: 0.0000 Acres
 - Area to be Paved: 1.1000 Acres
 - Area to be Seeded: 3.4585 Acres
 - Area Undisturbed: 2.4000 Acres

All bales shall be tied with non-weathering materials, i.e. wire, nylon.

Two rebars or wooden stakes driven through each hole 1 1/2"-2" into ground. Rebars to be driven flush with top of bales.



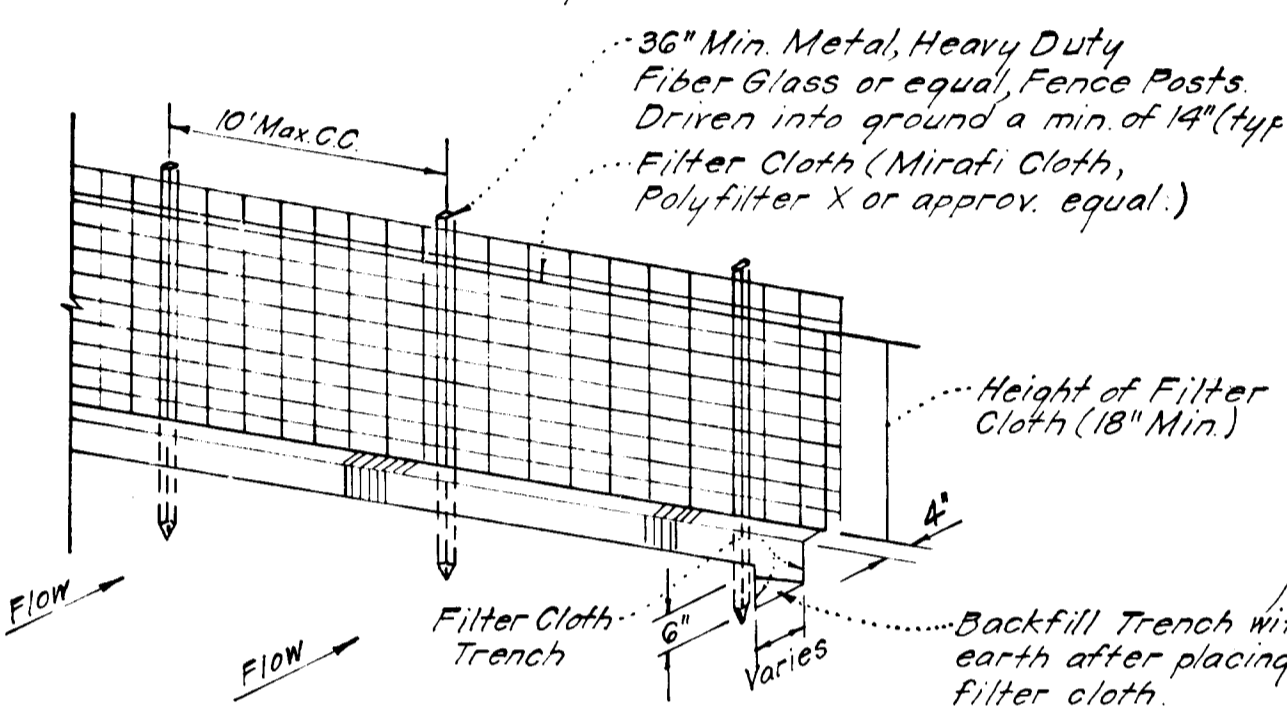
Notes:

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

STRAW BALE DIKE DETAIL (S.B.D.)

No SCALE

Woven wire fence - Min 14 gage; 6" Max spacing



3/8" Min. Metal, Heavy Duty Fiber Glass or equal, Fence Posts Driven into ground a min of 14" (typ). Filter Cloth (Mirafi Cloth, Polyfilter X or approx. equal.)

Height of Filter Cloth (18" Min)

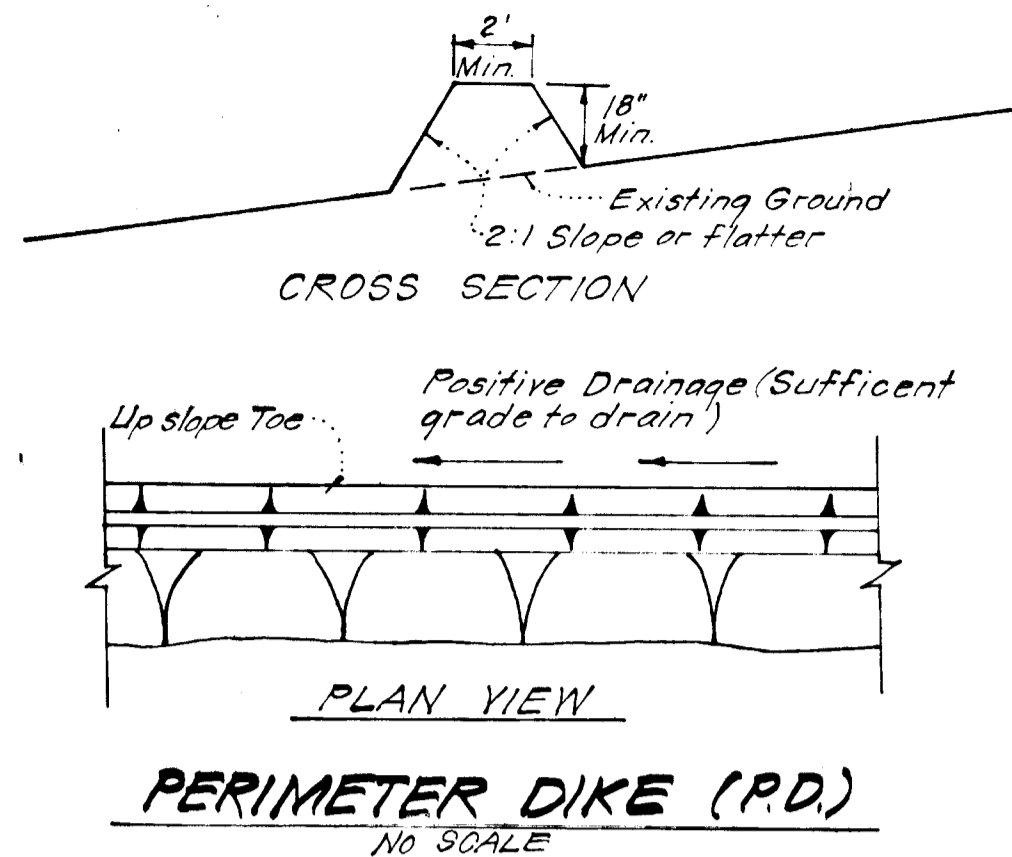
Backfill Trench with earth after placing filter cloth.

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".

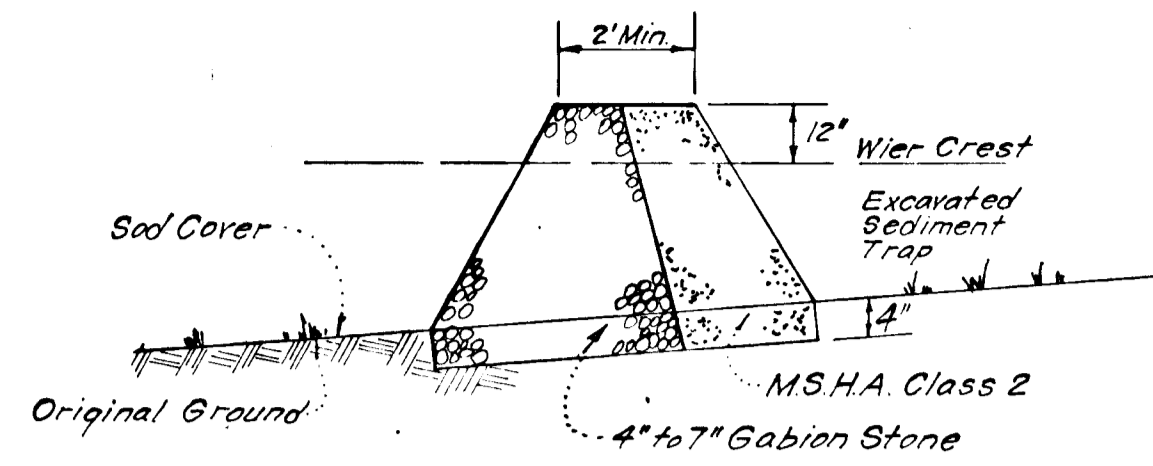
SILT FENCE DETAIL (S.F.)

No SCALE



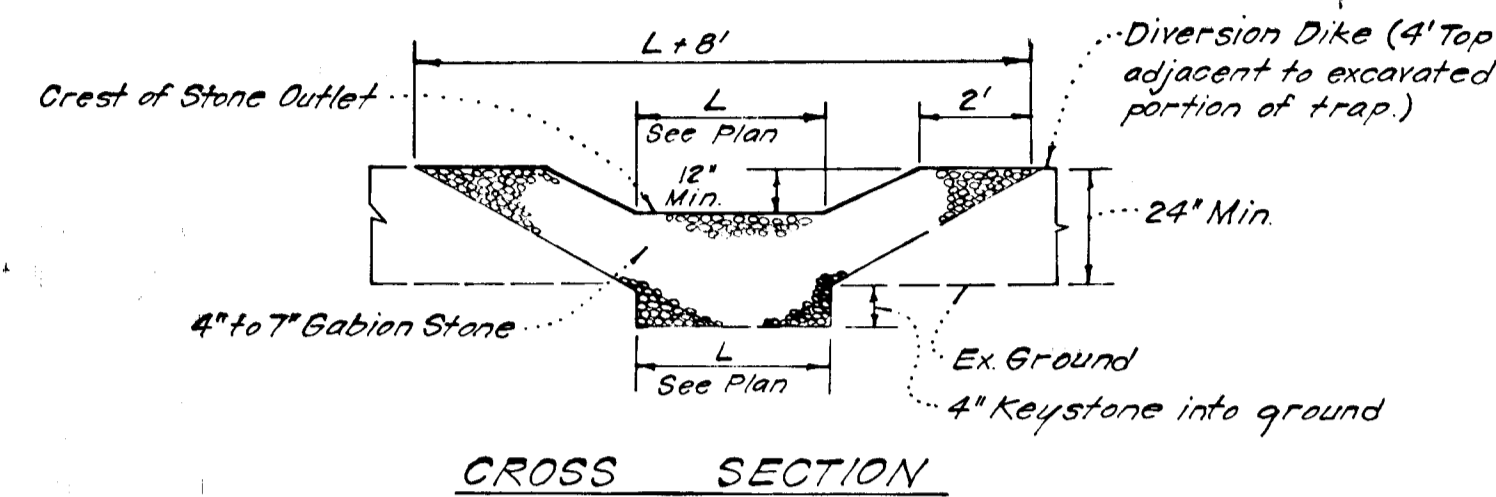
PERIMETER DIKE (P.D.)

No SCALE



Note: For Dimensions not shown see plan.

PROFILE



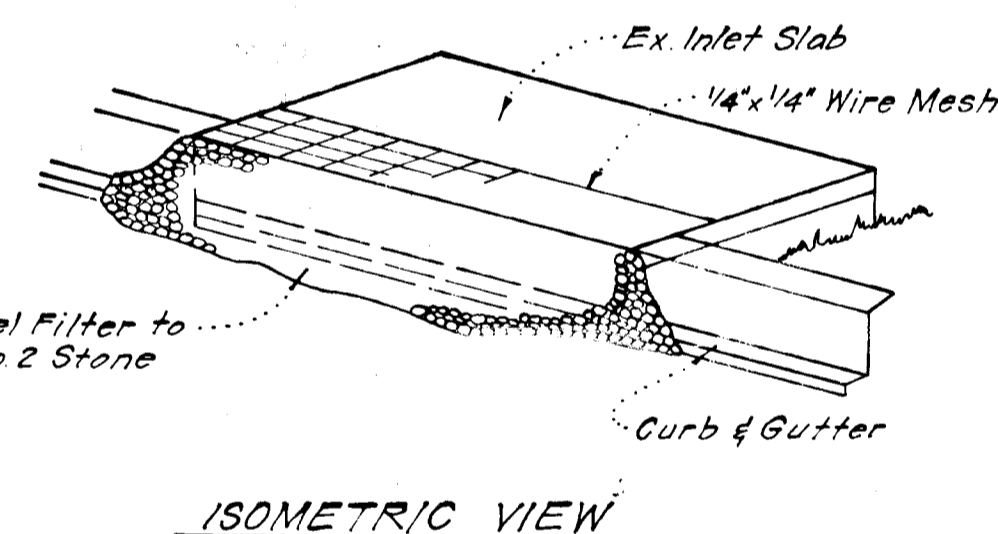
CROSS SECTION

Notes:

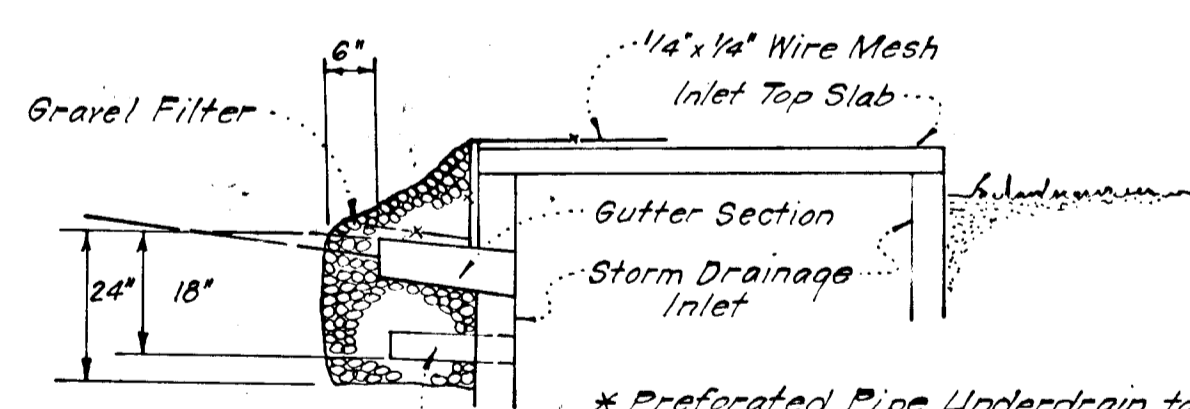
- Sediment Trap to be cleaned out when sediment reaches a level of 1ft below crest of stone outlet.
- Bottom of Sediment Trap to be level and constructed to the dimensions shown on plan.
- Stone Outlet to be constructed through diversion dike adjacent to excavated.

DETAILS OF STONE FILTER OUTLET FOR STONE OUTLET SEDIMENT TRAP

No SCALE



ISOMETRIC VIEW

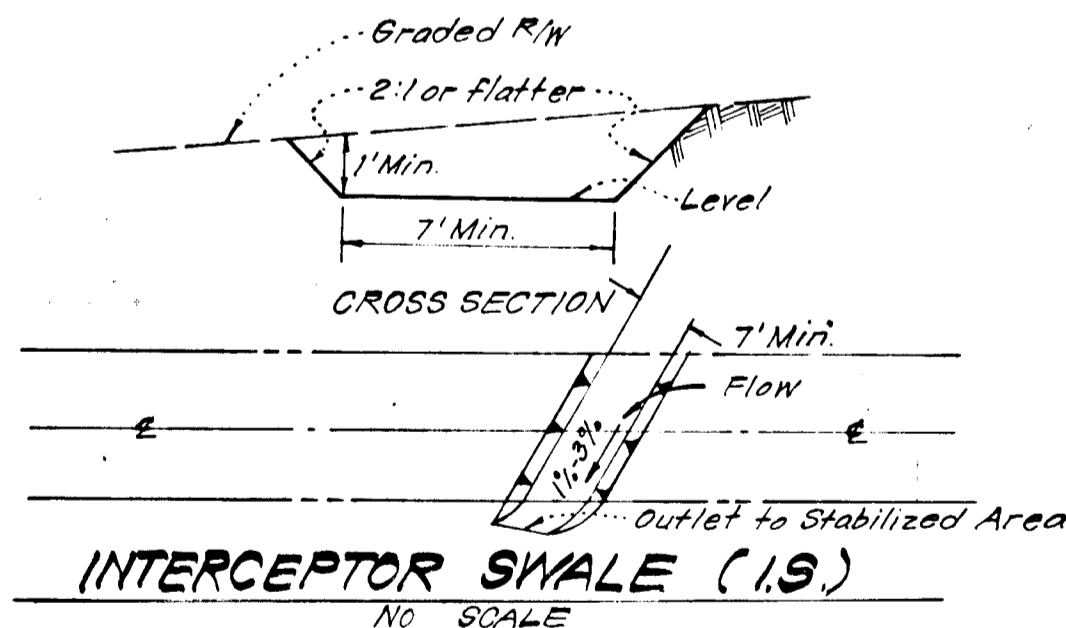


* Prefabricated Pipe Underdrain to be installed at time of inlet construction. Do not install prefabricated pipe and stone below ground if inlet and/or paving are constructed.

SECTION VIEW

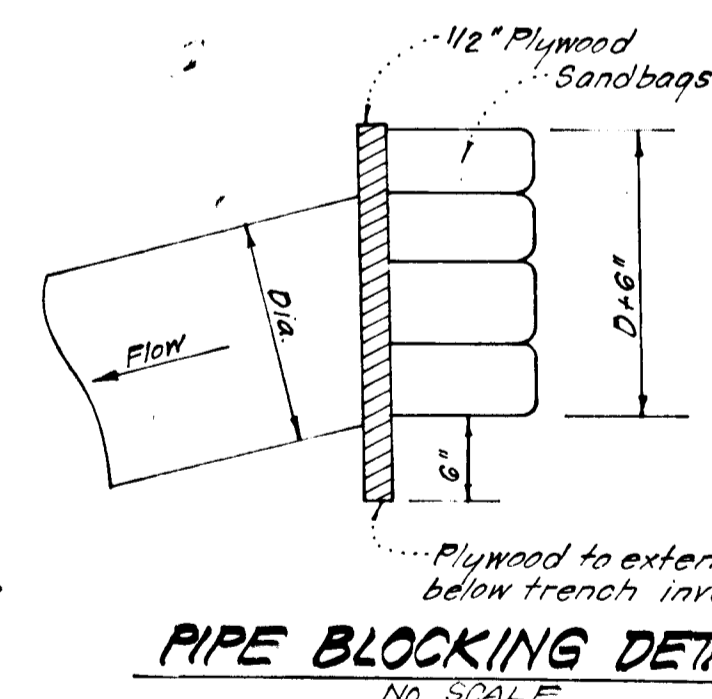
STONE FILTER INLET PROTECTION (S.F.I.P.)

No SCALE



INTERCEPTOR SCALE (I.S.)

No SCALE

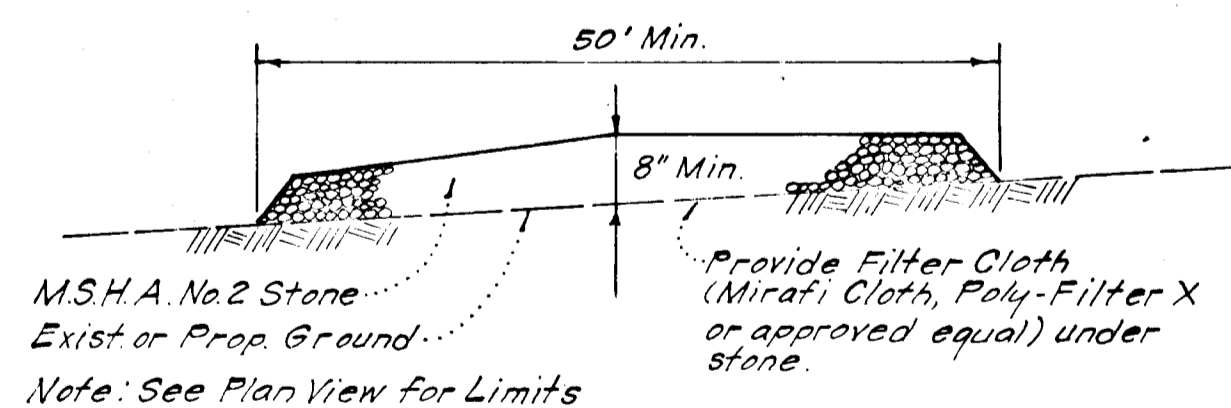


PIPE BLOCKING DETAIL

No SCALE

AS BUILT SURVEY CERTIFIED BY E. NELSON CLARK
1254 P.E. NO. 7154 OF OCT. 10, 1985

"AS-BUILT"



Provide Filter Cloth (Mirafi Cloth, Poly-Filter X or approved equal) under stone.

SECTION VIEW

STABILIZED CONSTRUCTION ENTRANCE

No SCALE

Reviewed for: HOWARD S.C.D.
Name
and meets Technical Requirements
Signature: [Signature] Date: 10-19-83
U.S. Soil Conservation Service
THIS DEVELOPMENT PLAN IS APPROVED FOR SOIL EROSION AND SEDIMENT CONTROL BY THE HOWARD SOIL CONSERVATION DISTRICT
Signature: [Signature] Date: 10-19-83
Approval

DEVELOPER'S/BUILDER'S CERTIFICATE
"I/We certify that all development and construction will be done according to this plan of development and plan for erosion and sediment control and that all responsible personnel involved in the construction project will have a Certificate of Attendance at a Dept. of Natural Resources Approved Training Program for the Control of Sediment and Erosion before beginning the project. I also authorize periodic on-site inspection by the Howard Soil Conservation District or their authorized agents, as are deemed necessary."
Signature of Developer/Builder: [Signature] Date: 8-10-83

ENGINEER'S CERTIFICATE
I hereby certify that this plan for Erosion and Sediment Control represents a practical and workable plan based on my personal knowledge of the site conditions and that it was prepared in accordance with the requirements of the Howard Soil Conservation District.
Signature: [Signature] Date: 8-10-83
E. Nelson Clark

APPROVED: Department of Public Works
Signature: [Signature] Date: 10-21-83
Chief, Bureau of Engineering
APPROVED: [Signature] Date: 10-19-83
Division of Land Development & Zoning Administration

CLARK • FINEFROCK & SACKETT
ENGINEERS • PLANNERS • SURVEYORS
11315 LOCKWOOD DRIVE
BETHESDA, MARYLAND 20814

DESIGNED VLS	ROAD CONSTRUCTION PLANS SEDIMENT & EROSION CONTROL PLAN	SCALE As Shown
DRAWN KIW	ASBURY WOODS	DRAWING 404
CHECKED VLS	SECTION 1 AREA 3 6TH ELECTION DISTRICT HOWARD COUNTY, MARYLAND	JOB NO. 82-069
DATE 8-10-83	FOR: Beach Creek Associates 3967 Dicks Foot Lane Ellicott City, Md. 21043	DATE 82-069-D



4/20/83

F-84-28