

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."

L. Earl Armiger
Signature of Developer/Builder
L. Earl Armiger
Date 9/23/81

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
G. Nelson Clark
Date 9-23-81

APPROVED: Department of Public Works
Walter H. ... 6-08-83 Date

Chief, Bureau of Engineering

APPROVED: Howard County Office of Planning & Zoning
William ... 6-28-83 Date

Chief, Division of Land Development & Zoning Administration

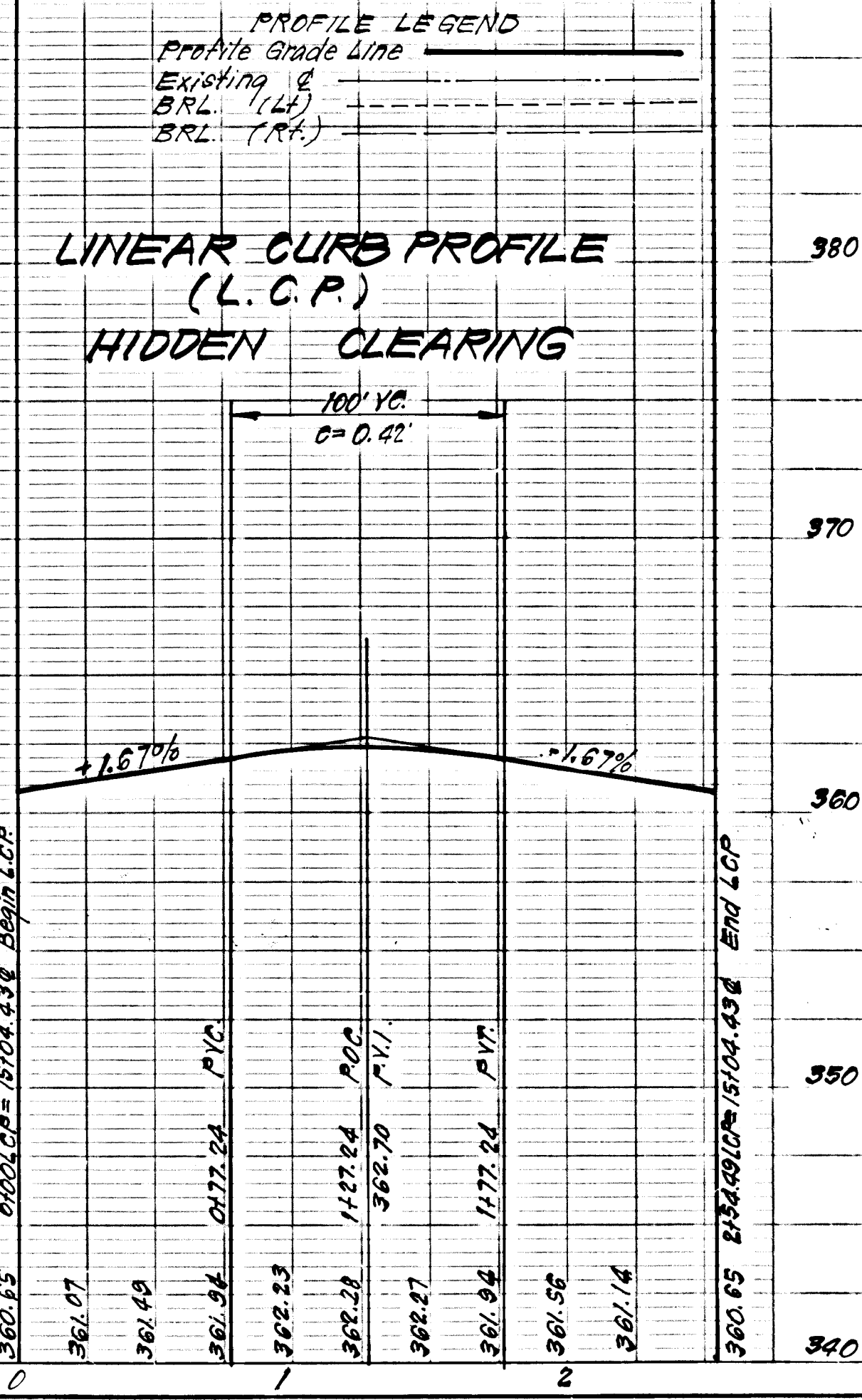
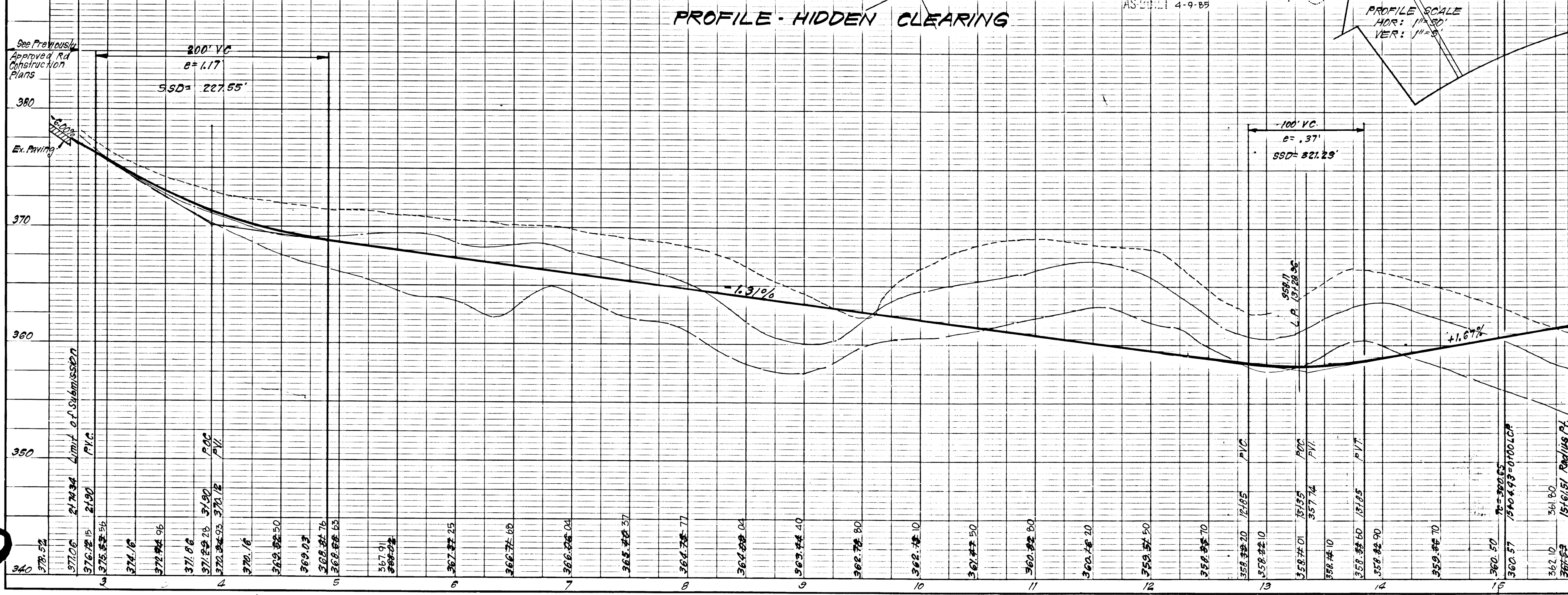
CLARK - FINEFROCK & SACKETT
ENGINEERS - PLANNERS SURVEYORS
11315 LOCKWOOD DRIVE • SILVER SPRING, MARYLAND 20904 • (301) 593-3400

DESIGNED	ROAD CONSTRUCTION PLANS HIDDEN CLEARING	SCALE	AS SHOWN
DRAWN	SEWELLS ORCHARD	DRAWING	1 OF 6
CHECKED	SECTION 2 AREA 1 6TH ELECTION DISTRICT HOWARD COUNTY, MARYLAND	JOB NO.	81-023
DATE	FOR: LIGHT POINT ASSOCIATES P.O. Box 819 Columbia, Maryland 21044	FILE NO.	81-023-D

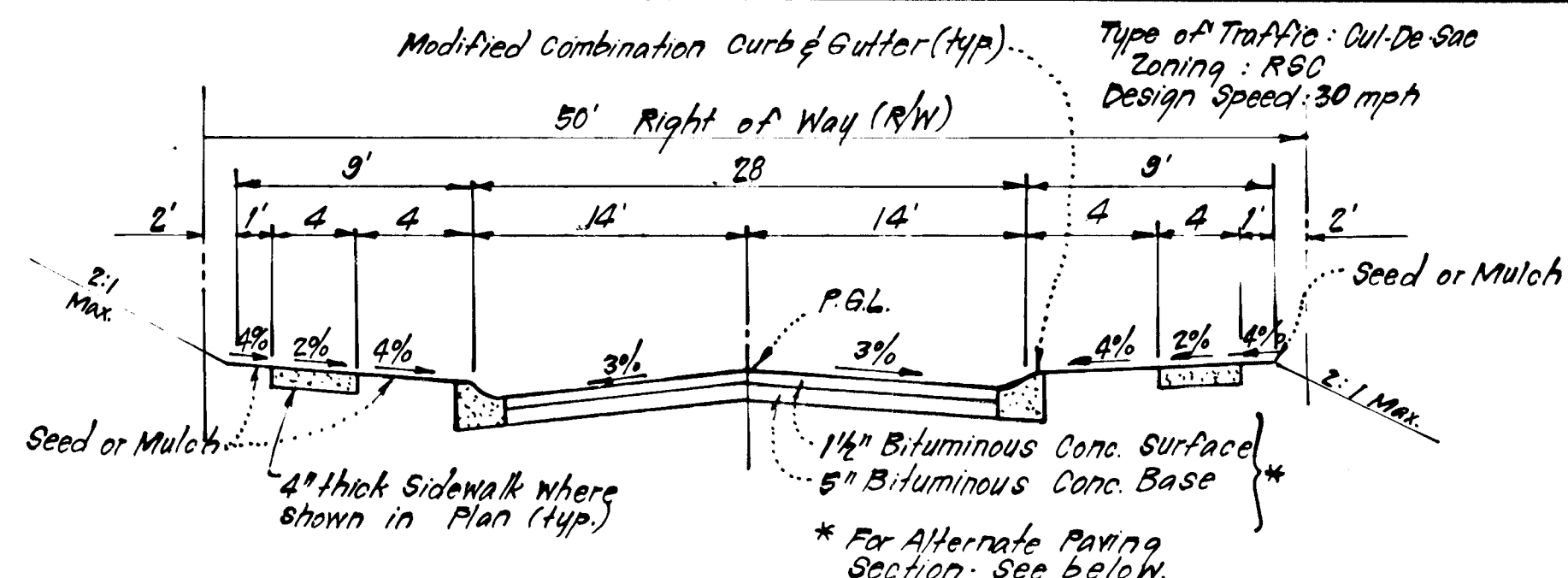
3-23-83

Reviewed for Howard S.C.D. Name and meets Technical Requirements
James M. ... 6/27/83 Date
Signature
U.S. Soil Conservation Service

THIS DEVELOPMENT PLAN IS APPROVED FOR SOIL EROSION AND SEDIMENT CONTROL BY THE HOWARD SOIL CONSERVATION DISTRICT
Wm. ... 6-27-83 Date
Approved

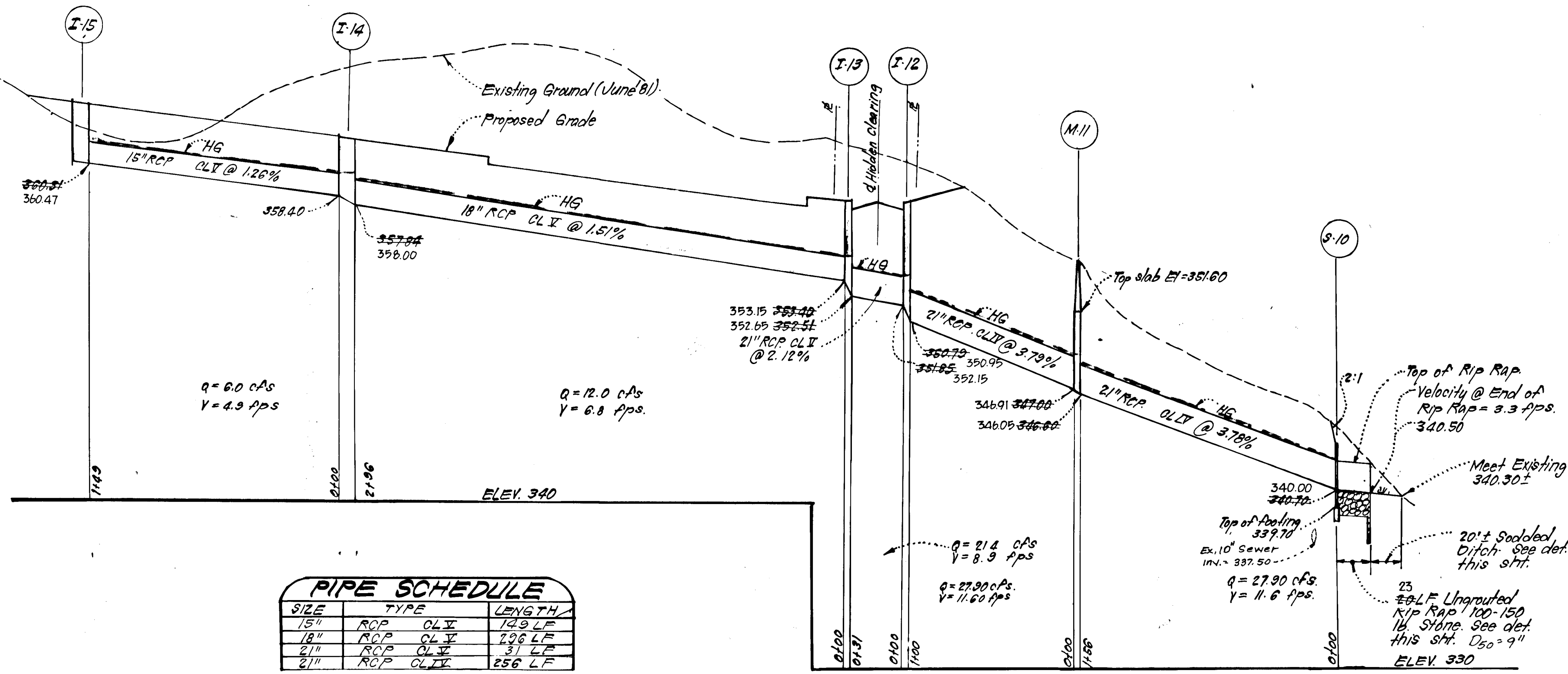


850



TYPICAL PAVING SECTION - PUBLIC ROADS

HIDDEN CLEARING Sta. 3136.71 to 15161.51
NO SCALE



PROFILE

SCALE: HOR. 1"=50'
VER. 1"=5'

PIPE SCHEDULE

SIZE	TYPE	LENGTH
15"	RCP CLV	143 LF
18"	RCP CLV	196 LF
21"	RCP CLV	31 LF
21"	RCP CLV	256 LF

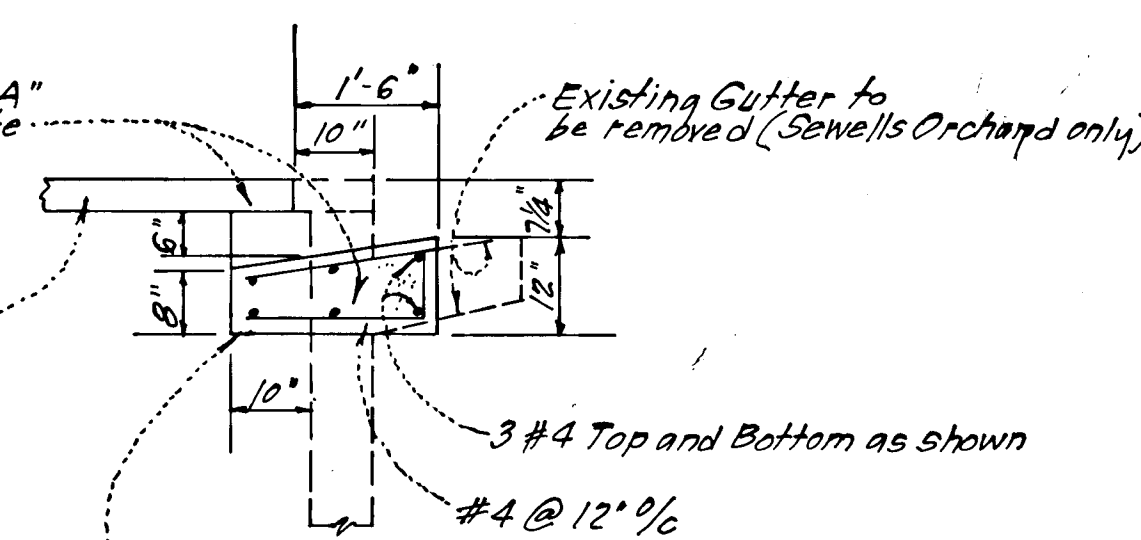
STRUCTURE SCHEDULE

No.	TYPE	INVT	INVT	TOP ELEVATION		REMARKS	LOCATION
				UPPER	LOWER		
S-10	C-Endwall	21" Dia	340.30	340.30		Ho. Co. Std. SD-5.21	See Plan
M-11	B-Manhole	48" Dia	347.00	346.00	354.60	Ho. Co. Std. SD-3.03	See Plan
I-12	A-10 Inlet	W=2'-6"	351.85	350.75	358.19	Ho. Co. Std. SD 4.02	6.5Hr. 131/6.62 14' Lt. & Rd.
I-13	A-10 Inlet	W=3'-6"	353.40	352.51	358.19	Ho. Co. Std. SD 4.02	6.5Hr. 131/6.62 14' Lt. & Rd.
I-14	A-10 Inlet	W=3'-0"	358.40	357.64	361.75	Ho. Co. Std. SD 4.02	Lower End, 10135, 14' Lt. & Rd.
I-15	A-10 Inlet	W=2'-6"	360.31	360.31	363.83	Ho. Co. Std. SD 4.02	Lower End 8+76, 14' Lt. & Rd.

* Increase H Dimension by 12" to allow for Rip Rap Paving. Use dimensions for 24" Dia.

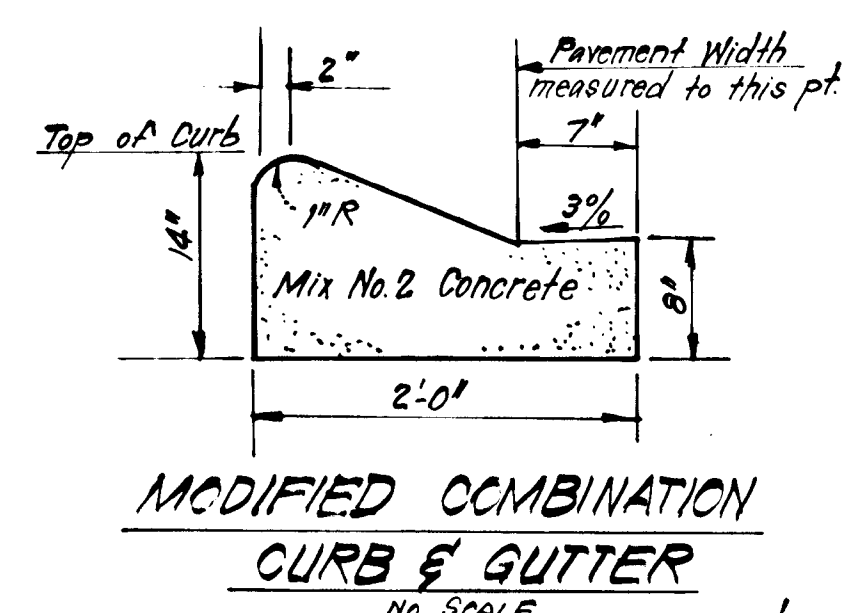
AS-BUILT

INV IN	INV OUT
340.00	340.00
346.91	346.05
352.15	350.95
353.15	352.65
358.40	358.00
360.31	360.47

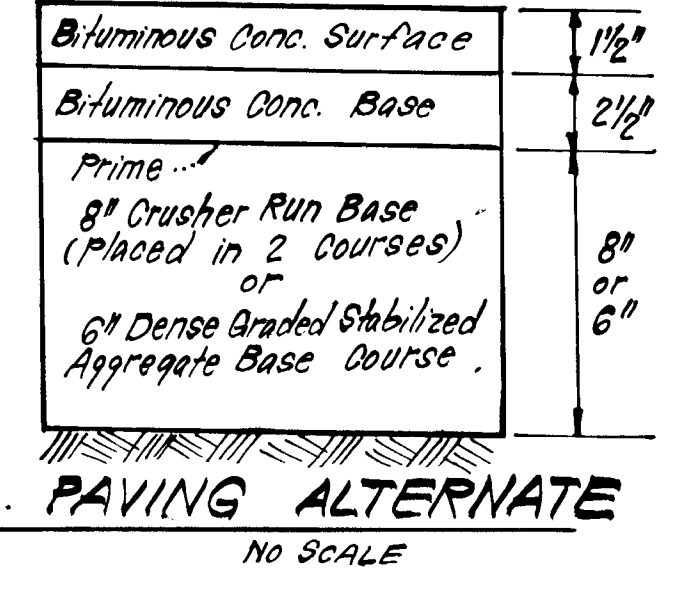


INLET MODIFICATION DETAIL

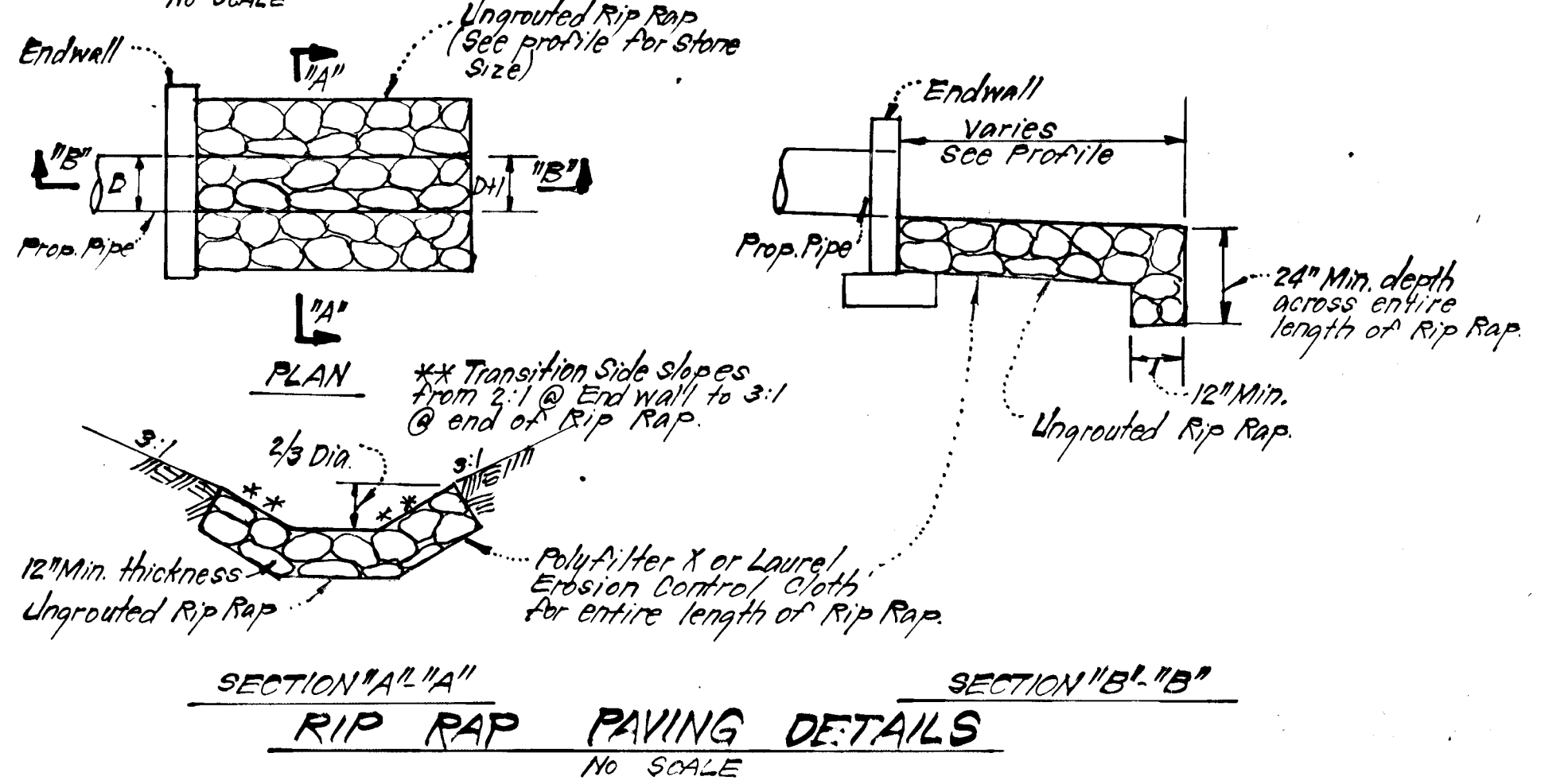
STRS I-12 THRU I-15
(No Scale)



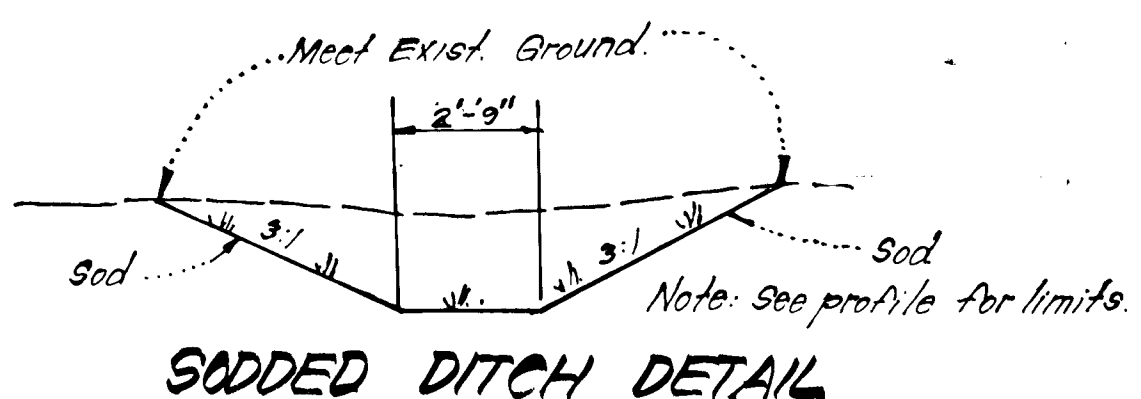
MODIFIED COMBINATION CURB & GUTTER



PAVING ALTERNATE



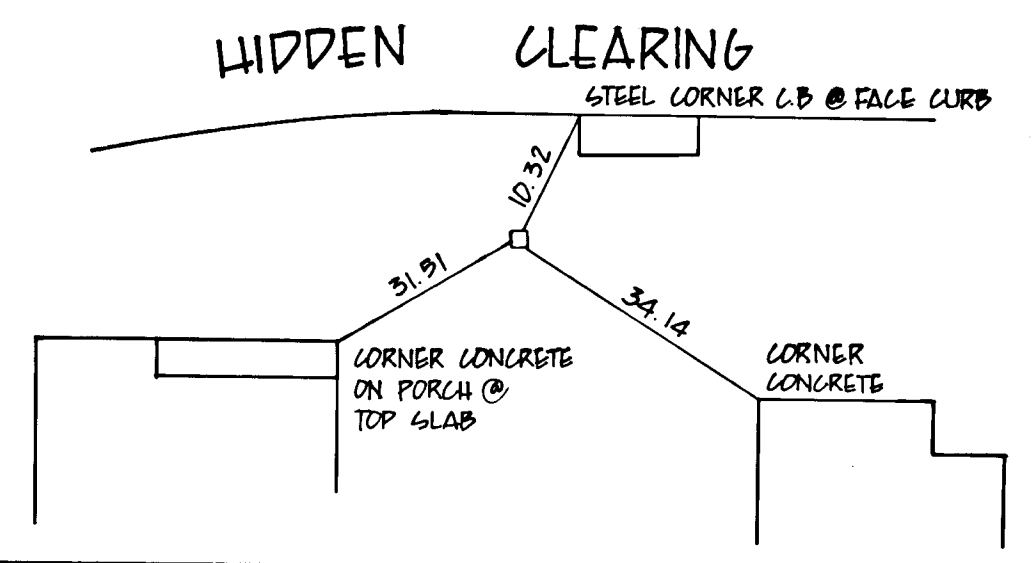
RIP RAP PAVING DETAILS



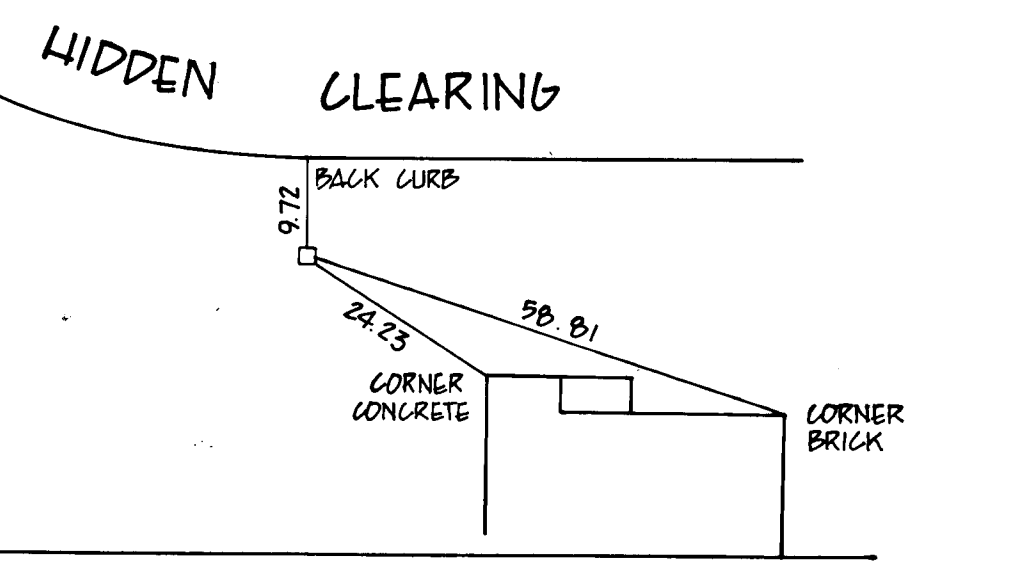
SODDED DITCH DETAIL

- GENERAL SODDING NOTES:**
1. Apply 10-10-10 Fertilizer @ 1000#/acre (25#/1000 sq ft)
 2. Apply Ground Agricultural Limestone @ 2000#/acre (50#/1000 sq ft)
 3. Incorporate both limestone and Fertilizer into soil by disking. Firm up after incorporation.
 4. Lay sod to a tight fit. Roll to insure contact with underlying soil. Water as necessary for first 2 weeks, in summer to ensure establishment.
 5. Sod to be used must be certified by the state of Maryland.

350



HIDDEN CLEARING



HIDDEN CLEARING

Reviewed for Howard S.C.D.
Name
and meets Technical Requirements
James M. Helmer 4/27/83
Signature
U.S. Soil Conservation Service

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

L. Earl Amiger 1/23/81
Signature of Developer/Builder Date

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."

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.

AS-BUILT 4-9-85



No.	REVISION	DATE
1	Added Inlet Modification Detail.	10-28-83

APPROVED: Department of Public Works
Michael J. F. 6-28-83
Date
Office: Bureau of Engineering
APPROVED: Howard County Office of Planning and Zoning
John W. Walkman 6-28-83
Date
Chief, Division of Land Development & Zoning Administration

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

ROAD CONSTRUCTION PLANS PROFILES AND DETAILS
SEWELLS ORCHARD

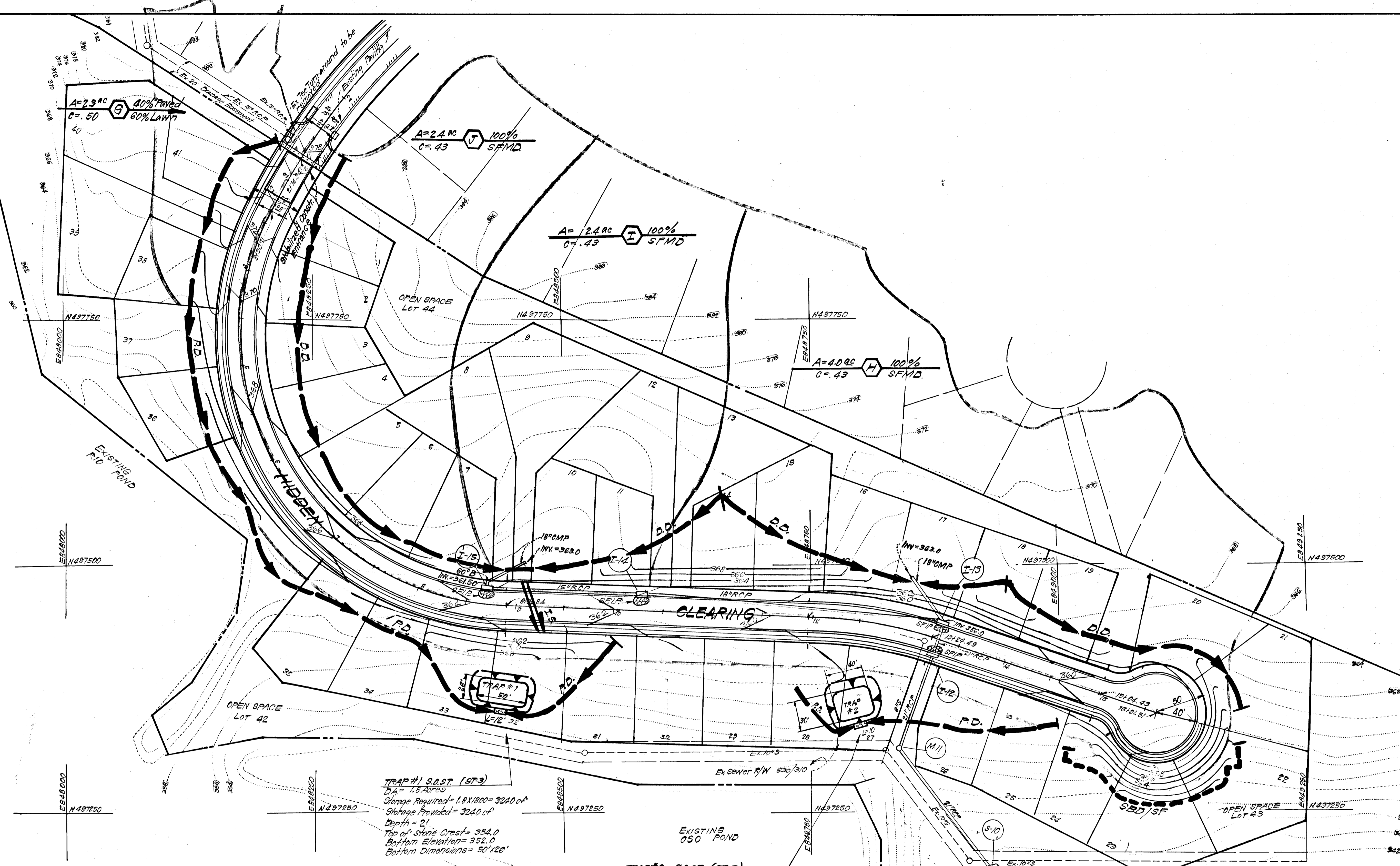
SECTION 2 AREA 1
6TH ELECTION DISTRICT
HOWARD COUNTY, MARYLAND

FOR: LIGHTPOINT ASSOCIATES
P.O. Box 319
Columbia, Maryland 21044

DESIGNED: D.A.B.
DRAWN: K.L.W.
CHECKED: D.A.B.
DATE: 3-29-83

SCALE: As Shown
DRAWING: 2 OF 6
JOB NO: 81-023
FILE NO: 81-023-D

Orchard
F-83-121



TRAP #1 S.O.ST. (ST-3)
 C.A. = 1.8 Acres
 Storage Required = 1.8 X 1800 = 3240 c.f.
 Storage Provided = 3240 c.f.
 Depth = 2'
 Top of Stone Crest = 354.0
 Bottom Elevation = 352.0
 Bottom Dimensions = 50' X 26'

TRAP #2 S.O.ST. (ST-3)
 C.A. = 1.6 Acres
 Storage Required = 1.6 X 1800 = 2880 c.f.
 Storage Provided = 2992 c.f.
 Depth = 2'
 Top of Stone Crest = 357.0
 Bottom Elevation = 355.0
 Bottom Dimensions = 40' X 30'

Reviewed for Howard S.C.D.
 Name
 and meets Technical Requirements
James M. Helmer 6/22/83
 Signature Date
 U.S. Soil Conservation Service

EROSION CONTROL PLAN IS APPROVED
 FOR SOIL EROSION AND SEDIMENT
 CONTROL BY THE HOWARD SOIL
 CONSERVATION DISTRICT.
Wm. J. Powell 6/22/83
 Approved Date

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
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 authorized agents, as are deemed necessary."
L. Earl Armiger 9/23/81
 Signature of Developer/Builder Date

ENGINEER'S CERTIFICATE
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 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 Conserva-
 tion District.
G. Nelson Clark 9-21-81
 Date



APPROVED: Department of Public Works
Michael F. H. 6-28-83
 Chief, Bureau of Engineering Date
 APPROVED: Howard County Office of Planning and Zoning
William W. ... 6-28-83
 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	SCALE
DAB	1" = 50'
DRAWN	DRAWING
K.I.W.	3.0" = 6'
CHECKED	JOB NO.
DAB	81-023
DATE	FILE NO.
3-29-83	81-023-4

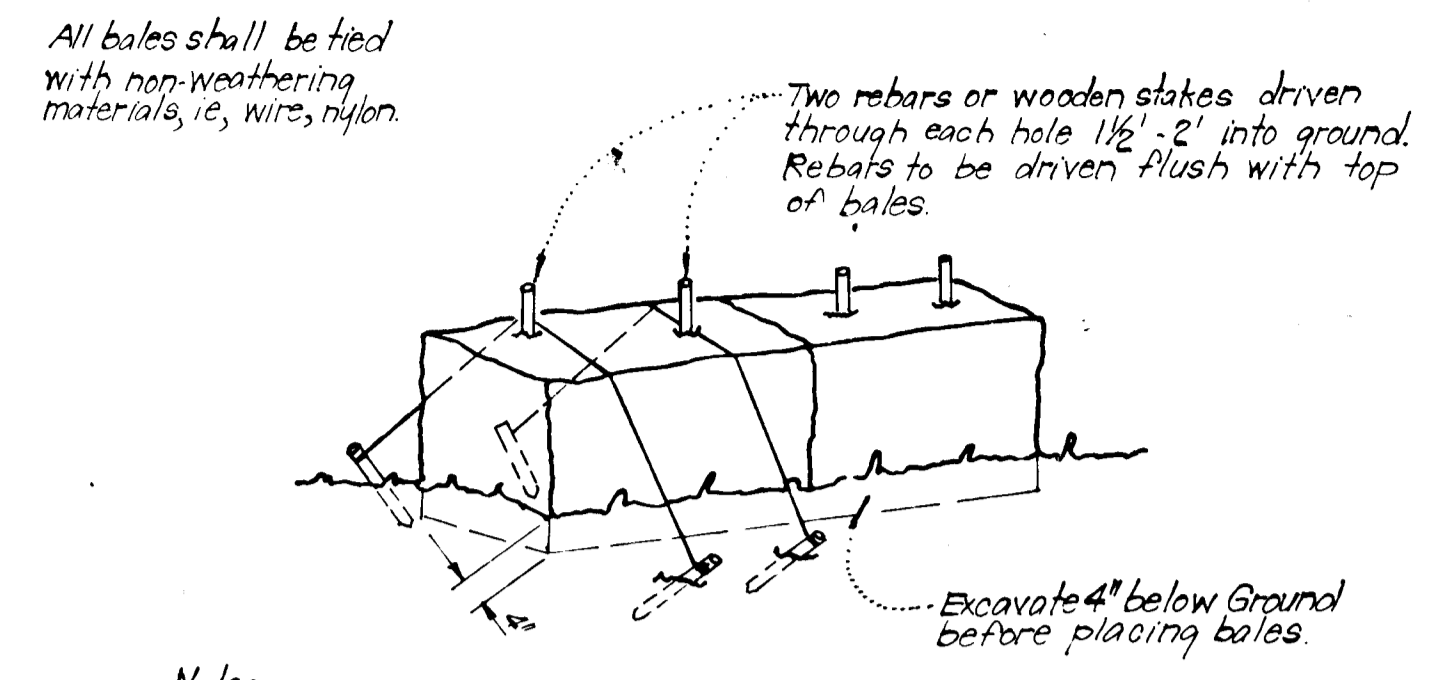
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F-83-121

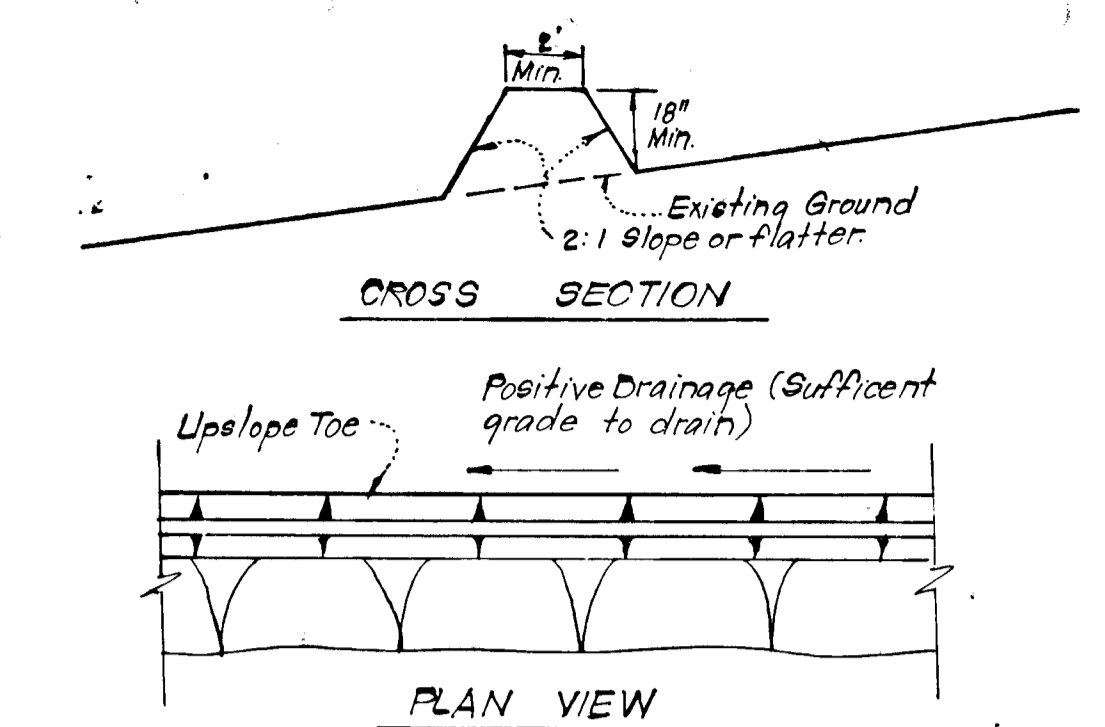
GENERAL NOTES

- 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 disturbed area to be stabilized in accordance with the following Specifications:
 - Seed - certified 85% germination applied at the rate of 5 lbs/1000 sq ft. Mixture - 40% Kentucky Blue, 20% Chewing Fescue, 20% Kentucky 31 and 20% annual rye.
 - Fertilizer - 10-10-10 applied at a rate of 25 lbs/1000 sq ft. Ground Agricultural Lime or Dolomitic Lime applied at a rate of 30 lbs/1000 sq ft.
 - Mulch - Weed free grain straw applied at a rate of 70-80 lbs/1000 sq ft. 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 cleanout 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.
- 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.
- SITE ANALYSIS:**

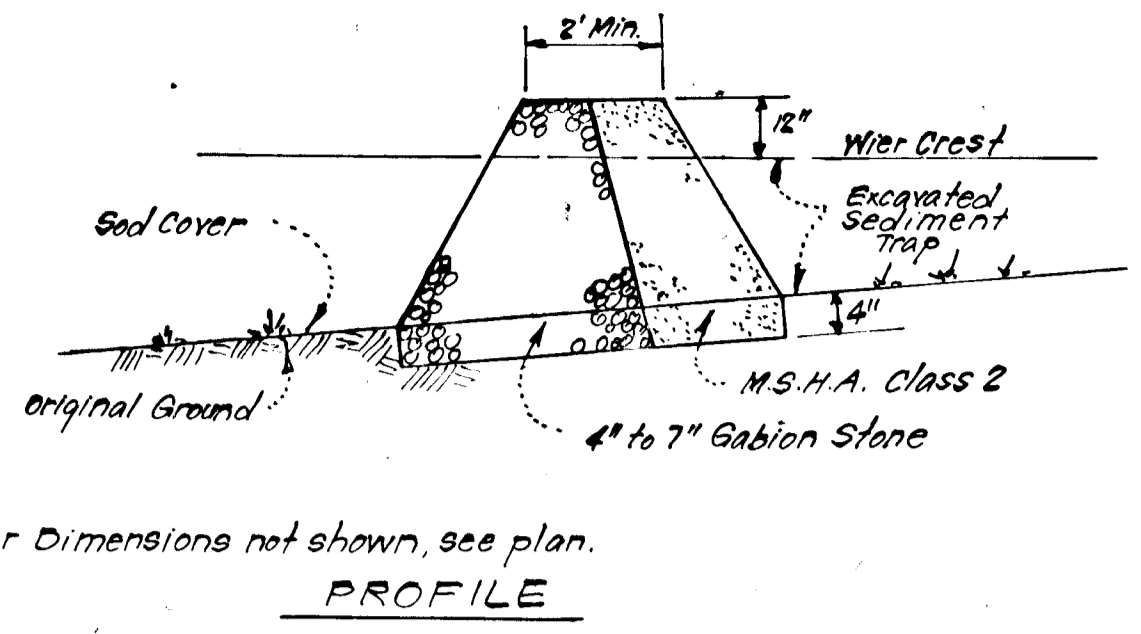
A. Total Area:	3.4 Acres
B. Area to be Paved:	1.1 Acres
C. Area to be Seeded:	1.9 Acres
D. Area Undisturbed:	.4 Acres
- CONSTRUCTION SEQUENCE**
 - Install Stabilized Construction Entrance where shown in plan.
 - Excavate Ditch at str. 5-10 and install S.O.S.
 - Install all Perimeter Dikes, Sediment Traps 1 & 2 and Straw Bale Dike/Silt fence
 - Install Storm Drainage, 9-10 to I-15 and temporary pipes.
 - Rough grade roadways, install S.F.P.'s
 - Construct Curb & Gutter, Paving and Sidewalk.
 - Final Grade and Stabilize in accordance with note #6.
- All pipes to be blocked at the end of each day, see detail this sheet.



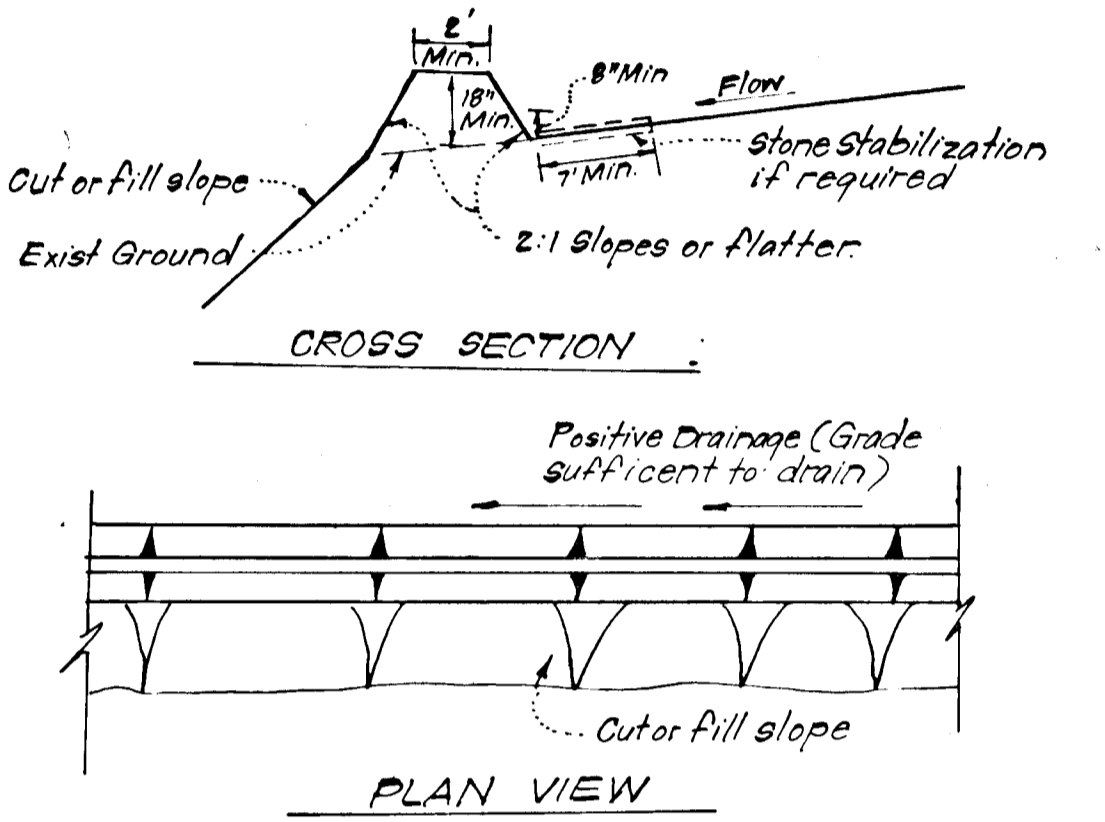
TYPICAL STRAW BALE DIKE DETAIL (S.B.D.)
No Scale



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

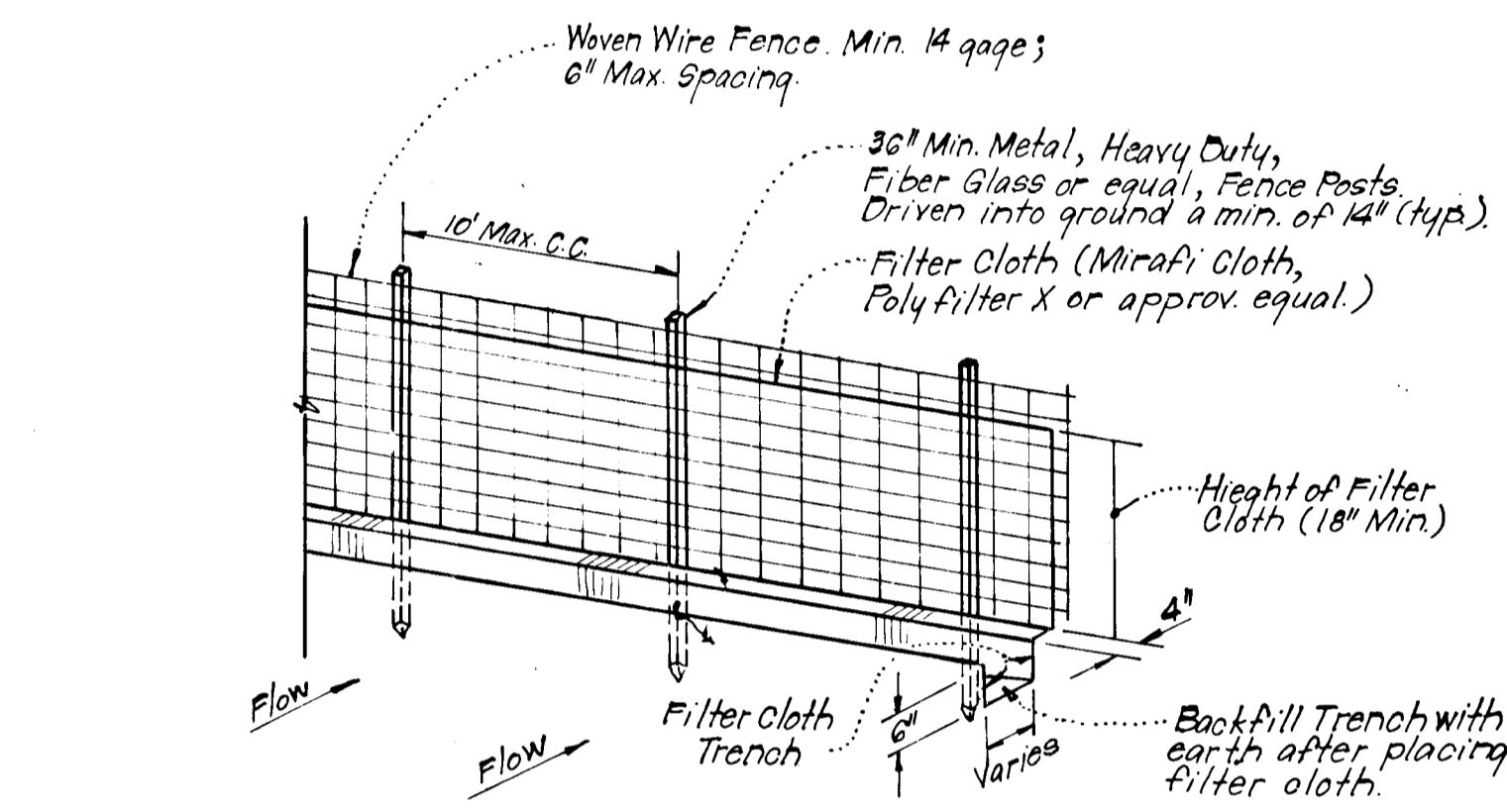


DETAILS OF STONE FILTER OUTLET (FOR STONE OUTLET SEDIMENT TRAP)
No Scale

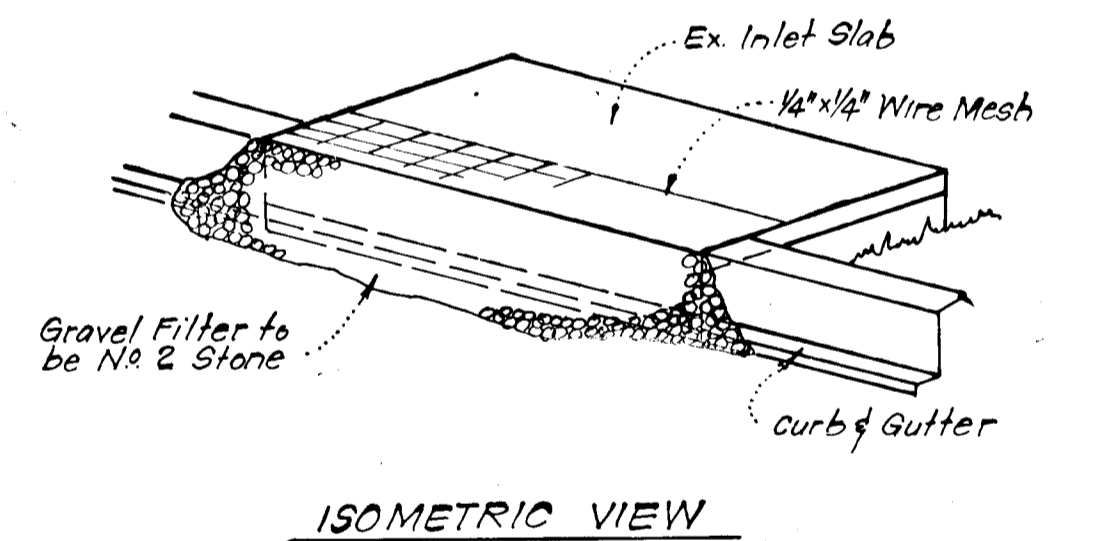


TYPICAL DIVERSION DIKE DETAIL (D.D.)
No Scale

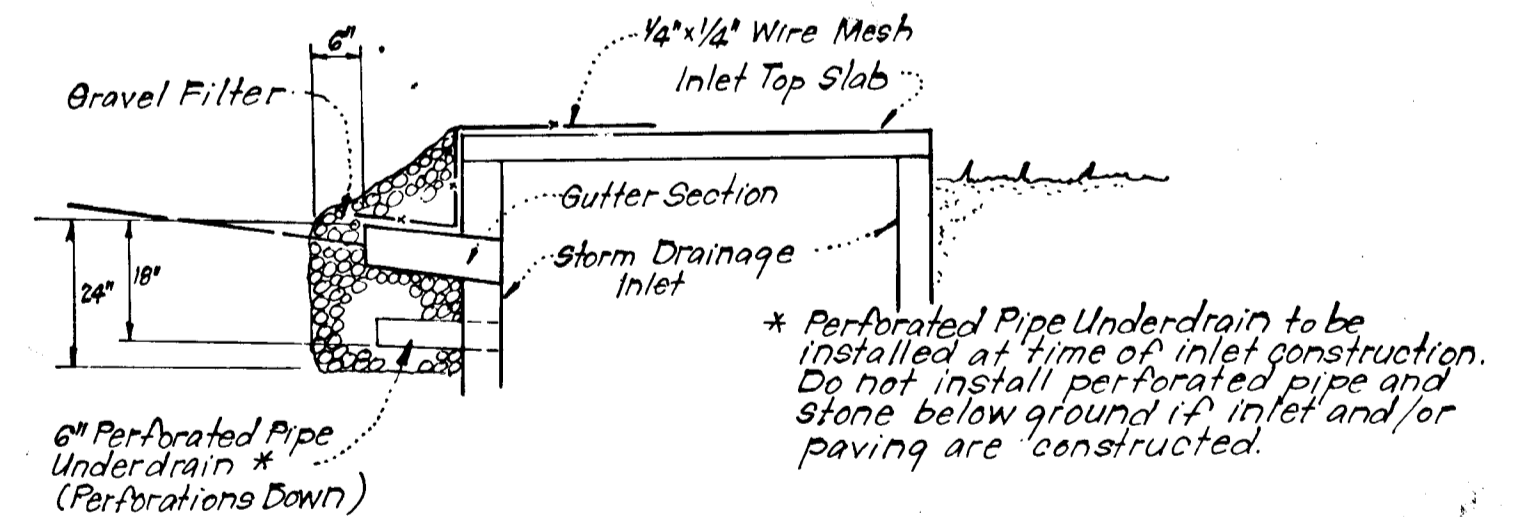
- Notes:
- Sediment Trap to be cleaned out when sediment reaches a level of 1 ft below crest of stone outlet.
 - Bottom of Sediment Trap to be level and constructed to the dimensions shown on plan.
 - Stone Outlet to be constructed through diversion dike adjacent to excavated portion of sediment trap.



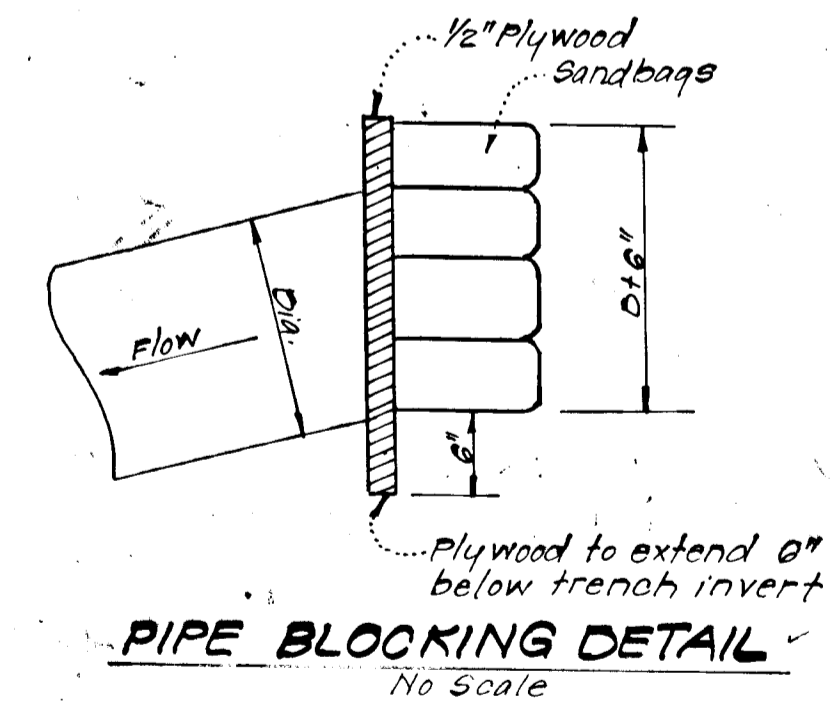
TYPICAL SILT FENCE DETAIL (S.F.)
No Scale



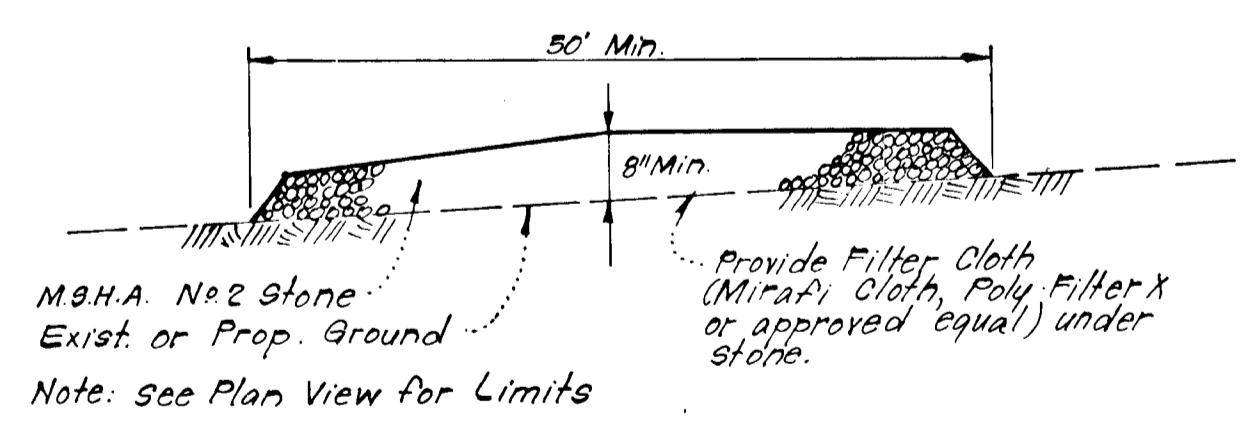
ISOMETRIC VIEW



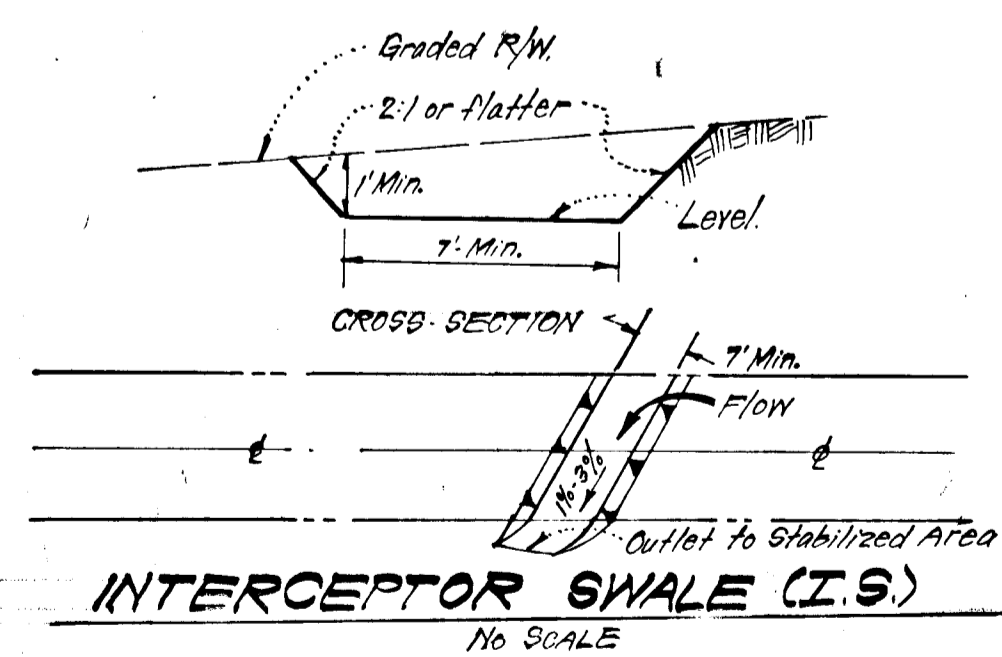
STONE FILTER INLET PROTECTION (S.F.I.P.)
No Scale



PIPE BLOCKING DETAIL
No Scale



STABILIZED CONSTRUCTION ENTRANCE
No Scale

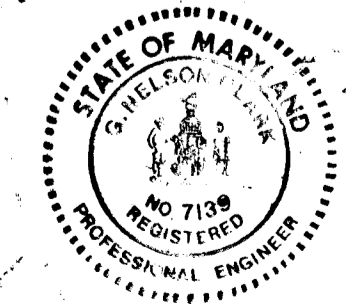


INTERCEPTOR SWALE (I.S.)
No Scale

Reviewed for Howard S.C.D. Name
and meets Technical Requirements
James M. Nelson 6/27/83 Signature Date
U.S. Soil Conservation Service
THIS DEVELOPMENT PLAN IS APPROVED FOR SOIL EROSION AND SEDIMENT CONTROL BY THE HOWARD SOIL CONSERVATION DISTRICT.
Am T. Rowe 6/27/83 Approved Date

DEVELOPER'S/BUILDER'S CERTIFICATE
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J. Gallimore 8/23/81 Signature of Developer/Builder Date
L. Earl Armiger

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 9-21-81 Date



APPROVED: Department of Public Works
[Signature] 6-28-83 Date
Chief, Bureau of Engineering
APPROVED: Howard County Office of Planning and Zoning
[Signature] 6-28-83 Date
Chief, Division of Land Development & Zoning Administration

CLARK • FINEFROCK & SACKETT ENGINEERS • PLANNERS • SURVEYORS 11315 LOCKWOOD DRIVE SILVER SPRING, MARYLAND 20904 (301) 593-3400	
DESIGNED D.A.B.	SCALE As Shown
DRAWN K.I.W.	DRAWING 4 of 6
CHECKED D.A.B.	JOB NO. 81-023
DATE 8-28-83	FILE NO. 81-023-D
FOR: SEWELLS ORCHARD SECTION 2 - AREA 1 6TH ELECTION DISTRICT HOWARD COUNTY, MARYLAND LIGHTPOINT ASSOCIATES P.O. BOX 919 Columbia, Maryland 21044	

No	NORTH	EAST
1	498 047.76	848 037.62
2	497 706.18	848 423.07
3	497 103.56	849 976.42
4	496 664.54	849 876.72
5	496 634.84	849 873.02
6	496 116.86	847 907.02
7	498 062.00	847 894.00
8	497 695.00	847 978.00
9	497 528.00	848 183.00
10	497 454.00	848 172.00
11	497 382.00	848 172.00
12	497 350.00	848 086.99
13	497 310.00	848 703.99
14	497 326.00	848 197.99
15	497 082.99	848 842.99
16	497 051.99	848 812.99
17	496 880.26	848 551.99
18	496 890.26	848 549.42
19	496 870.70	848 342.42
20	496 843.79	848 264.40
21	496 803.82	848 083.62
22	496 605.00	847 990.72
23	496 500.00	848 290.00
24	496 335.00	848 590.00
25	496 205.00	848 890.00
26	496 978.00	848 846.00
27	496 400.00	848 850.00
28	496 535.00	849 288.00
29	496 640.00	849 288.00
30	496 818.00	849 542.00
31	496 818.00	849 662.00
32	496 600.72	849 648.53
33	496 709.15	848 042.95
34	496 706.41	848 230.92
35	497 325.00	848 349.99
36	497 278.00	848 573.99
37	497 278.00	848 794.99
38	497 224.00	848 819.99
39	497 158.00	848 819.99
40	497 103.99	848 807.99

EASEMENT FOR WALKWAY
EGRESS TO BALTIMORE ST. STATION
SUBSTATION AB. 18 F. 12

BALTIMORE ST. EASEMENT
PARCEL F. 12

550' P.W. SUBSTATION
L. 14.2

TRANSMISSION CO. OF MARYLAND
F. 13.6

SEWELLS ORCHARDS

SEWELLS ORCHARDS

SEWELLS ORCHARDS

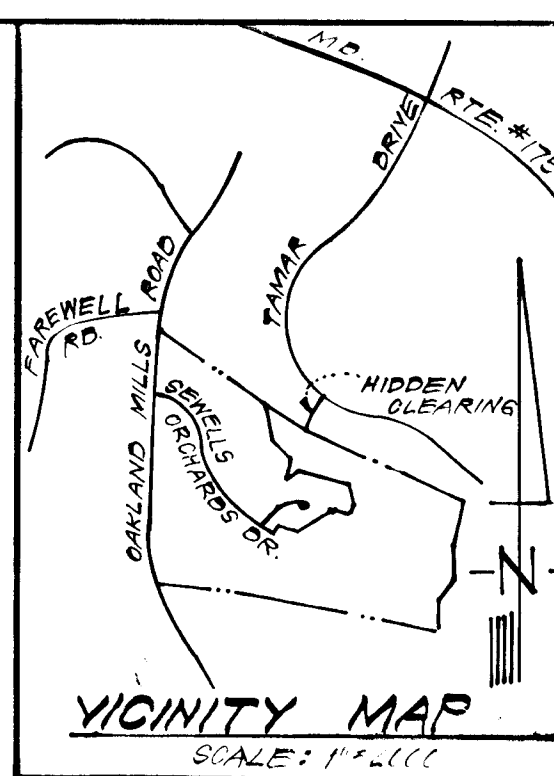
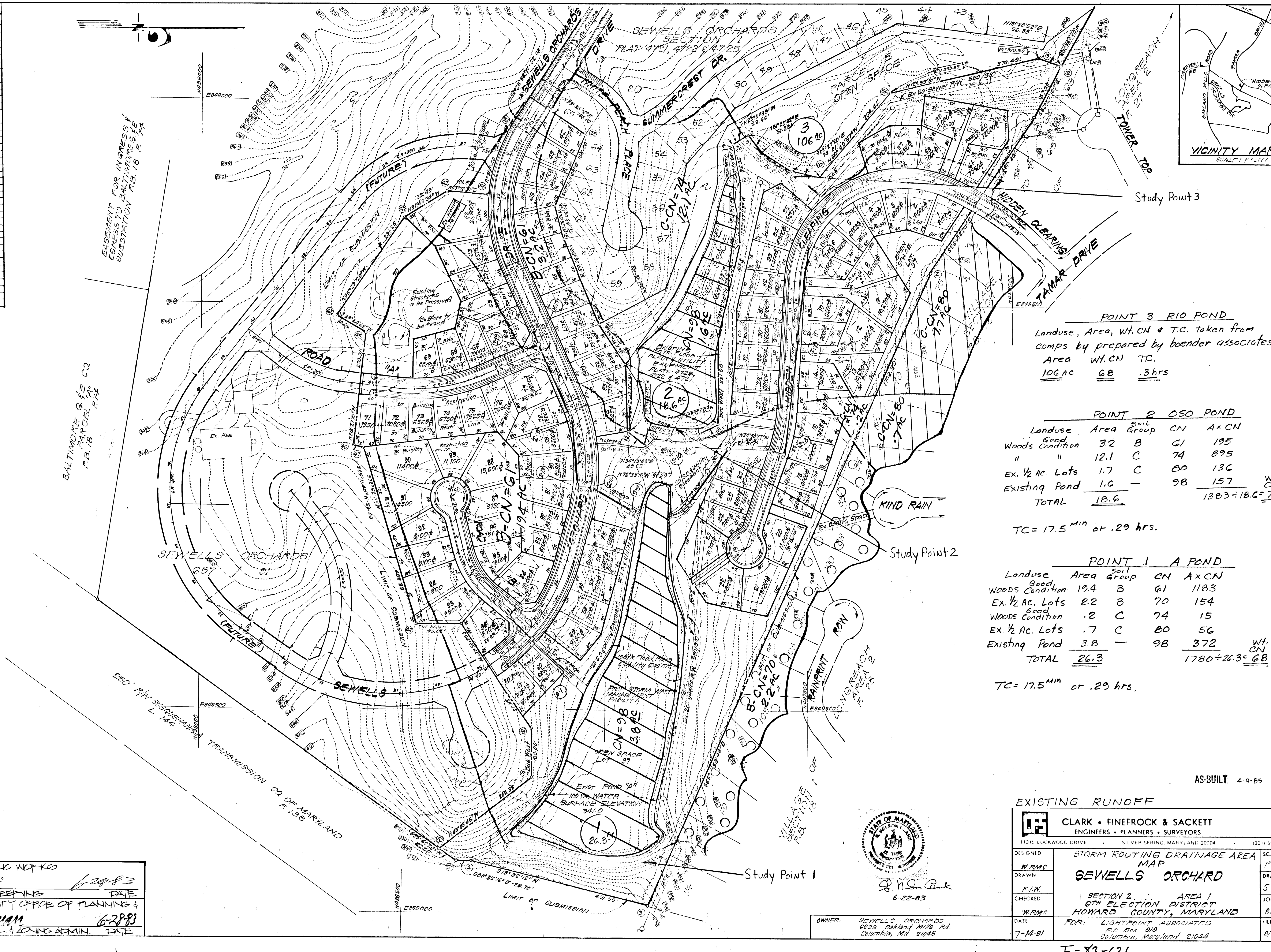
SEWELLS ORCHARDS

SEWELLS ORCHARDS

SEWELLS ORCHARDS

SEWELLS ORCHARDS

SEWELLS ORCHARDS



POINT 3 RIO POND

Landuse, Area, Wt. CN & TC. taken from Comps by prepared by boender associates

Area	Wt. CN	TC.
106 AC	68	.3 hrs

POINT 2 OSO POND

Landuse	Area	Soil Group	CN	A x CN
Woods Good Condition	32	B	61	195
" "	12.1	C	74	895
Ex. 1/2 AC. Lots	1.7	C	80	136
Existing Pond	1.0	-	98	157
TOTAL	18.6			1303 = 18.6 x 74

TC = 17.5 MIN or .29 hrs.

POINT 1 A POND

Landuse	Area	Soil Group	CN	A x CN
WOODS Good Condition	19.4	B	61	1183
Ex. 1/2 AC. Lots	2.2	B	70	154
WOODS Good Condition	.2	C	74	15
Ex. 1/2 AC. Lots	.7	C	80	56
Existing Pond	3.8	-	98	372
TOTAL	26.3			1780 = 26.3 x 68

TC = 17.5 MIN or .29 hrs.

APPROVED: DEPT. OF PUBLIC WORKS
 APPROVED: CHIEF DIV. OF ENGINEERING
 APPROVED: HONORARY COUNTY OFFICE OF PLANNING & ZONING
 APPROVED: CHIEF DIV. OF LAND LEVEL & ZONING ADMIN.



6-22-83

OWNER: SEWELLS ORCHARDS
 6033 CAMLAND MILLS RD.
 COLUMBIA, MD 21045

EXISTING RUNOFF

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

DESIGNED: W.R.M.C. STORM ROUTING DRAINAGE AREA MAP
 DRAWN: S.E.W. SEWELLS ORCHARD
 CHECKED: K.I.W. SECTION 2, AREA 1
 W.R.M.C. 6TH ELECTION DISTRICT
 DATE: 7-14-81 FOR: LIGHTPOINT ASSOCIATES
 P.O. Box 919
 Columbia, Maryland 21044

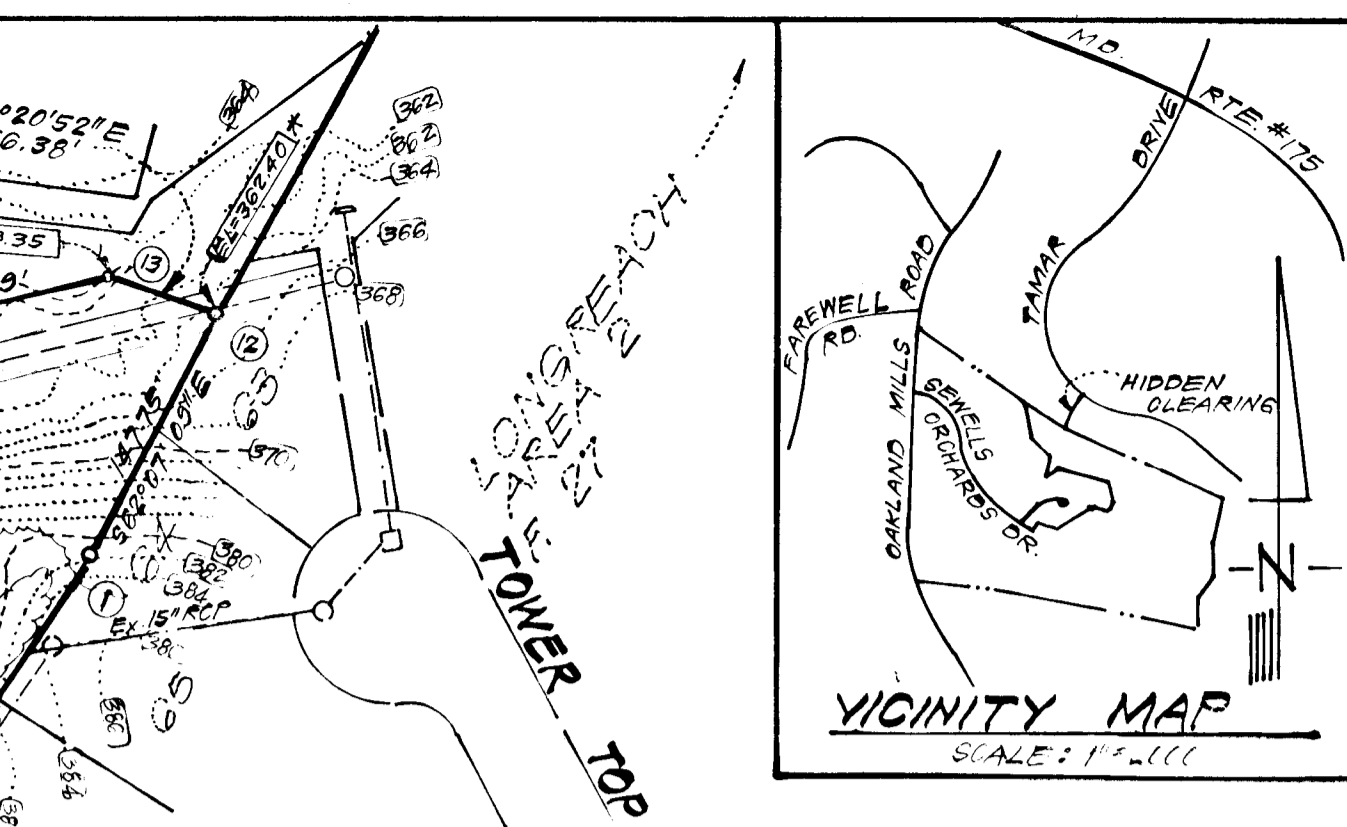
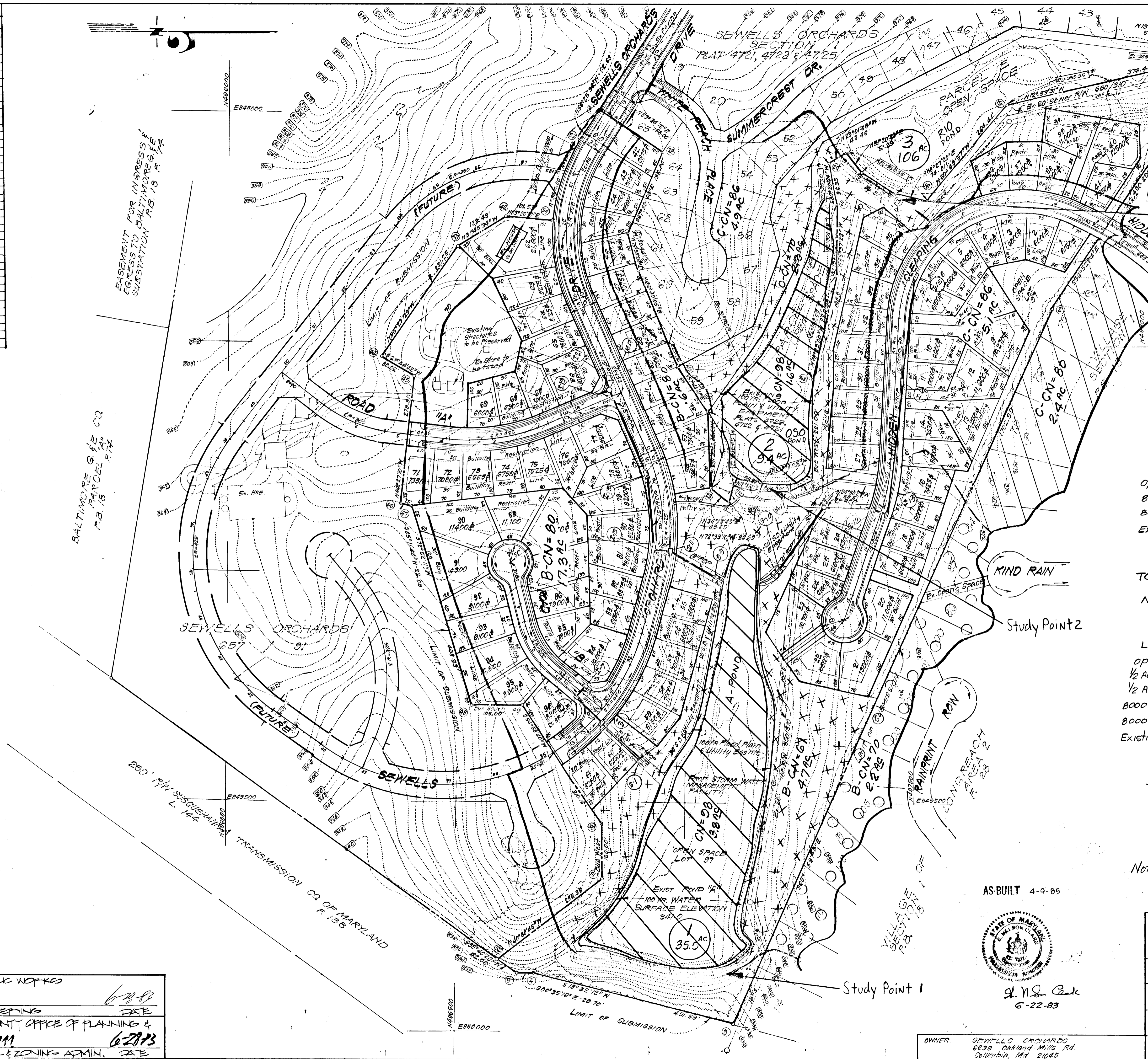
SCALE: 1"=100'
 DRAWING: 5 of 6
 JOB NO.: 81-023
 FILE NO.: 81-023-DA

AS-BUILT 4-9-85

F-83-121

COORDINATE TABLE		
No	NORTH	EAST
1	498 047.76	848 037.62
2	497 796.18	848 423.07
3	497 103.58	849 076.42
4	496 664.54	849 872.72
5	496 334.84	849 873.02
6	496 116.86	847 907.02
7	496 062.00	847 894.00
8	497 635.00	847 978.00
9	497 528.00	848 183.00
10	497 454.00	848 172.00
11	497 382.00	848 127.00
12	497 360.00	848 086.39
13	497 310.00	848 103.99
14	497 326.00	848 137.99
15	497 032.99	848 842.99
16	497 051.99	848 814.99
17	497 044.99	848 651.99
18	496 980.26	848 549.42
19	496 890.26	848 342.42
20	496 870.70	848 264.40
21	496 843.79	848 083.62
22	496 803.82	847 906.72
23	496 605.00	848 225.00
24	496 500.00	848 130.00
25	496 335.00	848 530.00
26	496 205.00	848 570.00
27	496 378.00	848 848.00
28	496 400.00	848 850.00
29	496 535.00	849 288.00
30	496 640.00	849 298.00
31	496 818.00	849 542.00
32	496 818.00	849 662.00
33	496 600.72	849 848.53
34	496 769.15	848 042.95
35	496 706.41	848 230.92
36	497 325.00	848 349.99
37	497 278.00	848 573.99
38	497 278.00	848 754.93
39	497 224.00	848 819.99
40	497 158.00	848 819.99
41	497 103.99	848 807.99

APPROVED & DEPT. OF PUBLIC WORKS
 DATE 6-28-83
 CHIEF ENGINEER
 DATE 6-28-83
 CHIEF DIVISION OF LAND DEVELOPMENT & ZONING ADMIN. DATE



Study Point 3
 POINT 3 RIO POND
 Landuse, Area, WT CN & TC Taken from Comps prepared by boender associates
 Area WT CN TC
 106 ac 75 .3hrs
 Note: Stage Storage Discharge taken from Comps. by boender associates

POINT 2 OSO POND

Land Use	Area	Soil Group	CN	A x CN	WT CN
Open Space	2.3	C	74	170	
8000 S.F. LOTS	.6	B	80	48	
8000 S.F. LOTS	4.9	C	86	421	
Existing Pond	1.6	—	98	157	
TOTAL	2.4			796	796 ÷ 9.4 = 85

TC = $17.5 - \frac{55}{8} = 10.7 \text{ min} \approx .18 \text{ hrs}$
 Note: Stage Storage Discharge taken from Comps by boender associates

POINT 1 A-POND

Land Use	Area	Soil Group	CN	A x CN	WT CN
open Space	4.7	B	61	287	
1/2 AC. Lots	2.2	B	70	154	
1/2 AC. Lots	2.4	C	80	192	
8000 S.F. Lots	17.3	B	80	1384	
8000 S.F. Lots	5.1	C	86	439	
Existing Pond	3.8	—	98	372	
TOTAL	35.5			2828	2828 ÷ 35.5 = 80

TC = Lawn @ 5% = 1.2 sec. 180' / 1.2 = 190 sec.
 Gutter @ 1% = 2.0 sec. 500' / 20 = 250 sec.
 Pipe Flow from S.D. Comps 120 sec.
 Total 560 ÷ 60 = 9.3 min
 or .16 hrs
 Note: Stage Storage Discharge taken from Comps by S.C.D.
 ULTIMATE RUNOFF



AS-BUILT 4-9-85



J. N. Cook
 6-22-83

OWNER: SEWELLS ORCHARDS
 6233 Oakland Mills Rd.
 Columbia, Md 21045

CLARK • FINEROCK & SACKETT ENGINEERS • PLANNERS • SURVEYORS 11315 LICKWOOD DRIVE SILVER SPRING, MARYLAND 20904 (301) 593 3400			
DESIGNED	STORM ROUTING DRAINAGE AREA MAP	SCALE	1"=100'
DRAWN	SEWELLS ORCHARD	DRAWING	6-28-83
CHECKED	SECTION 2 AREA 1 6TH ELECTION DISTRICT	JOB NO.	81-023
DATE	FOR: LIGHTPOINT ASSOCIATES P.O. Box 919 Columbia, Maryland 21044	FILE NO.	81-023 DA