

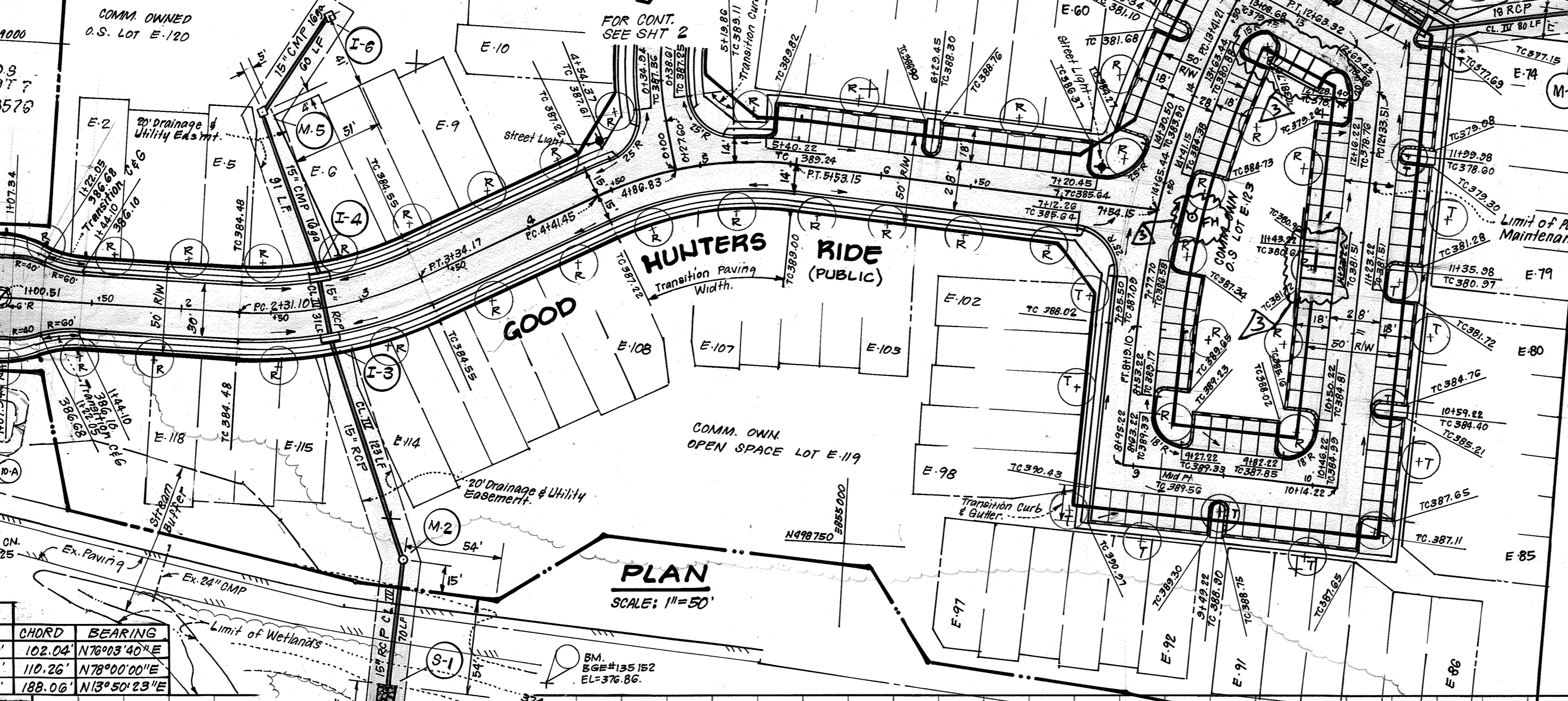
STREET TREE TABLE				
SYM	TYPE	SIZE	QUANT.	REMARKS
(R)	ACEF RUBRUM 'RED SUNSET'	2 1/2"	47	6 & 8 Heavy Heads
(R)	RED SUNSET MAPLE	"	"	"
(T)	TILIA CORDATA 'GREENSPIRE'	"	40	"
(T)	LITTLELEAF LINDEN	"	"	"

CURB & GUTTER LEGEND	
Modified C&G	Rev. 7" Sid C&G
Std. 7" C&G	Rev. 6" Sid. C&G
Rev. 6" Sid. C&G	Std. 6" C&G

STREET LIGHT LEGEND	
30" Steel Pole Pendant	250-400 Watt Hg or Sodium Equivalent
14" Fiberglass Pole	175 Watt Hg or Sodium Equivalent

1. The contractor shall verify location of underground utilities prior to digging. Location of trees may be adjusted slightly to meet field conditions.

2. The location, type & number of trees shown are tentative and are used for bond purposes only. The final location and variety of trees may vary to accommodate field conditions and builders landscape program. Bond release is contingent upon Section 10.12 of the Howard County Subdivision Regulations as approved by the Office of Planning and Zoning.



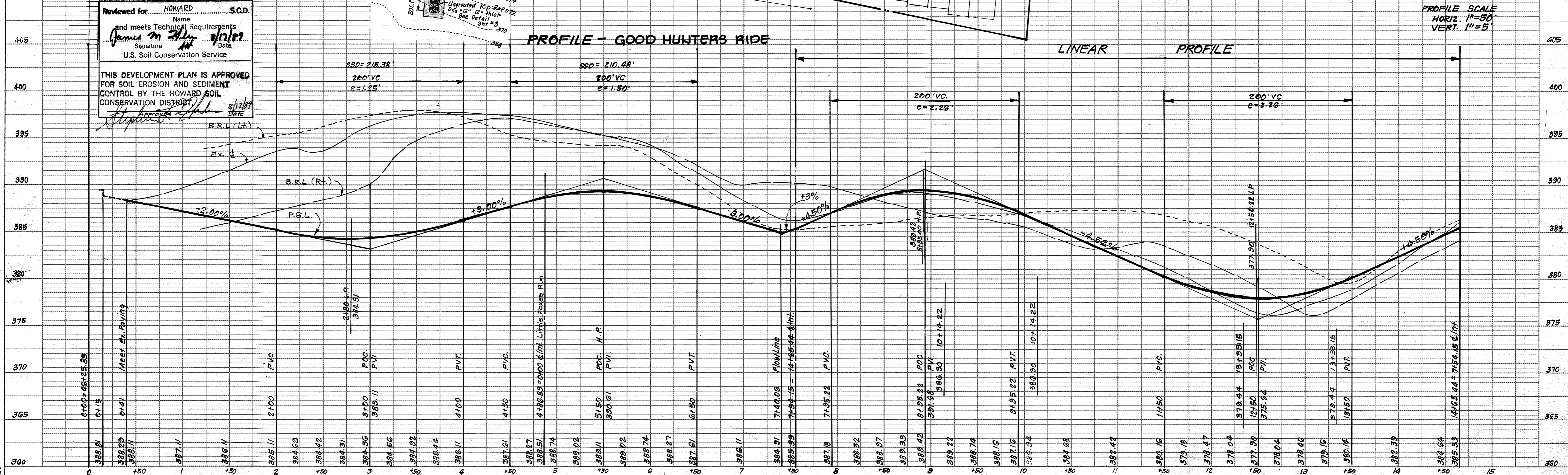
PLAN
SCALE: 1"=50'

Date	Revision	Description
5/11/23	3	NEW PARKING LAYOUT
5/11/20	2	Revised I-16 to A-5 Inlet

CENTERLINE CURVE DATA						
PC to PT	RADIUS	DELTA	ARC TAN	CHORD BEARING	CHORD	BEARING
PC 2431.10 to PT 3134.17	210.00	28°07'13"	103.07	52.60	102.04	N76°03'40"E
PC 4741.45 to PT 5153.15	200.00	32°00'00"	111.70	57.35	110.26	N78°00'00"E
PC 13141.21 to PT 8419.10	500.00	21°20'45"	185.18	95.74	185.06	N13°50'23"E

Reviewed for HOWARD COUNTY S.C.D. and meets Technical Requirements
 Signature: *[Signature]* Date: 8/17/89
 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: 8/17/89



GENERAL NOTES

- All work shall be done in accordance with Ho. Co. Design Manual, Vol. II Stds. and Specs. and Details for Construction, Part Appendices.
- Types of storm drainage refer to the standard details of Ho. Co. & MDSA.
- Trench composition for storm drains within road or street right-of-way limits shall be in accordance with "Ho. Co. Design Manual, Vol. II" Std. G.2.01.
- Information concerning underground utilities was obtained from available records, but the contractor must determine the exact location and elevation of 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 services, parking and signing to be done in accordance with the "Manual of Uniform Traffic Control Devices," 1984 Revised Edition.
- Sign and Cross Vertical Curves were designed in accordance with "Ho. Co. Design Manual," Vol. II.
- Provide Conc. Sidewalk Ramps: Ho. Co. Std. Type A R-4.01 where shown in plan.
- Design Speed: See Table Zoning: N.T. SP (Attached)
- The contractor or developer shall contact the Construction Inspection/Survey Division 24 hrs. in advance of commencement of work Ph. 792-7272.
- Stormwater management is provided for in previously approved Plan F-88-171. Plan subject to Water Quality Certification 87-0316.

Note: Warp paving from Sta. 12+33.51 to Sta. 13+33.15 in order to provide positive drainage to inlets I-9 & I-10.

DEVELOPER'S/BUILDER'S CERTIFICATE

I, *[Signature]*, 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 Resource Approved Training Program for the Control of Sediment and Erosion before beginning the project. I plan to 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: 5-15-89

APPROVED: HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS

[Signature] 8/23/89
 Chief, Land Development Division

[Signature] 8/22/89
 Chief, Bureau of Highways

[Signature] 8-24-89
 Chief, Bureau of Engineering

APPROVED: HOWARD COUNTY DEPT. OF PLANNING & ZONING

[Signature] 8/24/89
 Chief, Division of Community Planning & Land Development

CLARK • FINEPROCK & SACKETT, INC.
 ENGINEERS • PLANNERS • SURVEYORS
 7135 MINSTREL WAY • COLUMBIA, MD. 21045 • (301) 381-7500 - BALTO. • (301) 621-8100 - WASH.

DESIGNED: MCB
DRAWN: GS
CHECKED: MCB

ROAD CONSTRUCTION PLANS
GOOD HUNTERS RIDE
COLUMBIA
 VILLAGE OF LONGREACH
 SECTION 3 AREA 2
 6TH ELECTION DISTRICT
 HOWARD COUNTY, MARYLAND.

SCALE: As Shown
DRAWING: 1 OF 5
JOB NO.: 88-051
FILE NO.: 88-051-D

DATE: 7.19.89
 FOR: The Troutman Company
 Wilde Lake Village Green #300
 Columbia Md. 21044

OWNER: HOWARD RESEARCH & DEVEL. CO.
 10275 Little Patuxent Parkway
 Columbia Md. 21044

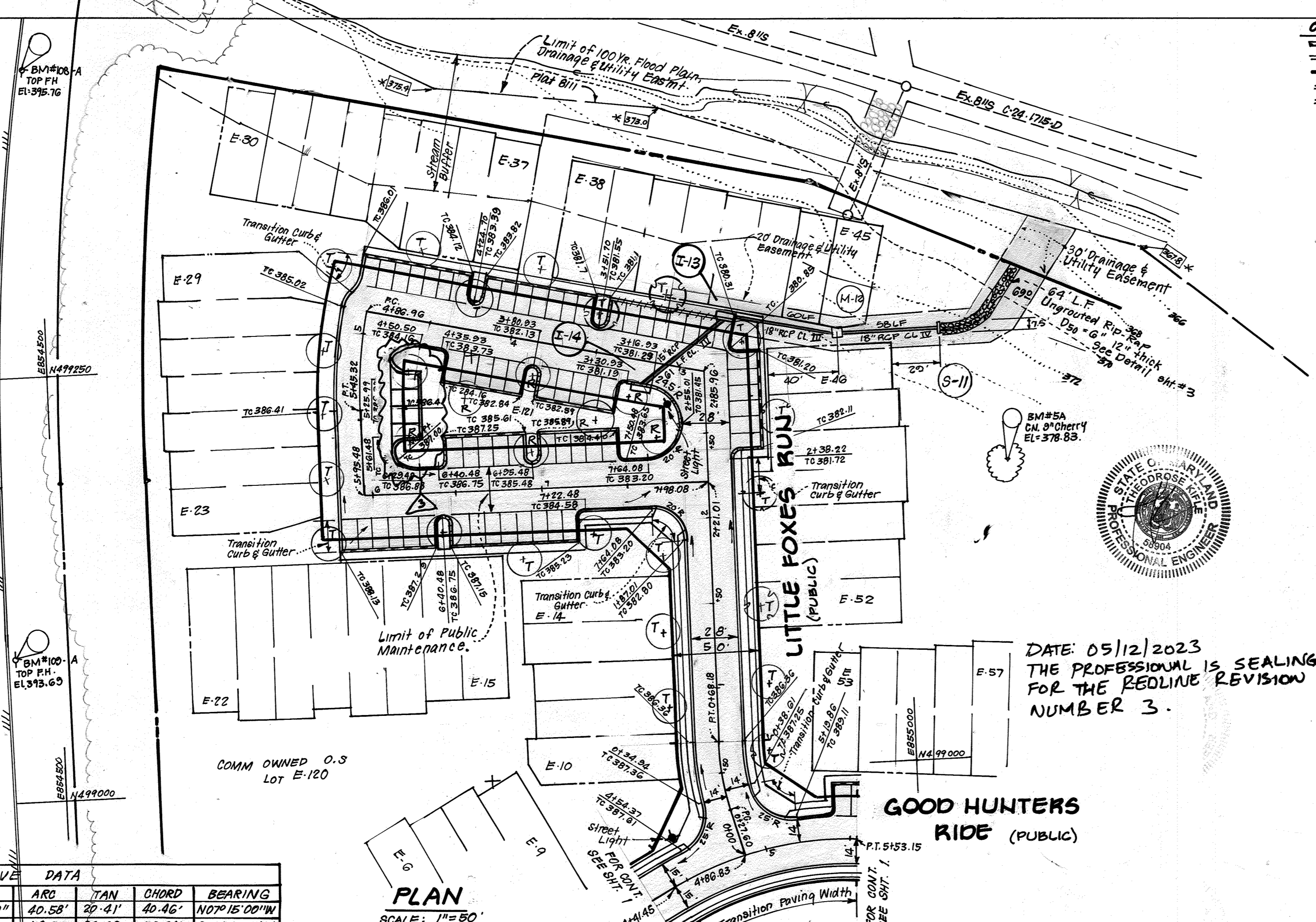
ENGINEER'S CERTIFICATE

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] 5-16-89
 E. Nelson Clark Date



SNOWDEN RIVER PARKWAY



CURB & GUTTER LEGEND

- Modified C&G
- Rev. 7" Std. C&G
- Std. 7" C&G
- Rev. 6" Std. C&G
- Std. 6" C&G

REVISIONS

1	Relocated Str. 5-11 & 12 AND REV. B/W	7-12-90
3	NEW PARKING ADDED (MIN. 9'x18'x10')	5-12-23

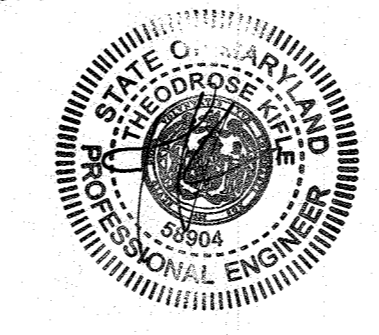
Reviewed for Howard S.C.D.
 Name
 and meets Technical Requirements
 Signature Jamm. M. Helms 8/12/87
 Date
 U.S. Soil Conservation Service

THIS DEVELOPMENT PLAN IS APPROVED FOR SOIL EROSION AND SEDIMENT CONTROL BY THE HOWARD SOIL CONSERVATION DISTRICT.
Stephen L. Smith 9/1/87
 Approved Date

DEVELOPER'S/BUILDERS 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 development and plan for erosion and sediment control 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."

John P. Troutman 5-15-89
 Signature of Developer/Builder Date

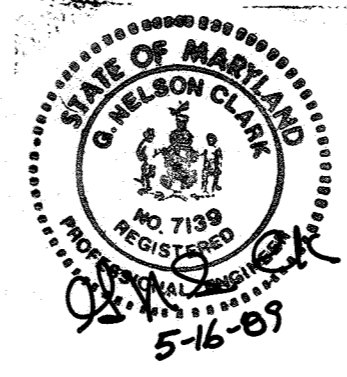


DATE: 05/12/2023
 THE PROFESSIONAL IS SEALING FOR THE REDLINE REVISION NUMBER 3.

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 5-16-89
 G. Nelson Clark Date



APPROVED: HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS.

Samuel J. Spurr 8/25/89
 Chief, Land Development Division Date

Lawrence W. Weiland 8/20/89
 Chief, Bureau of Highways Date

APPROVED: HOWARD COUNTY DEPT. OF PLANNING & ZONING.

Mark V. Langli 8/24/89
 Chief, Division of Community Planning & Land Development Date

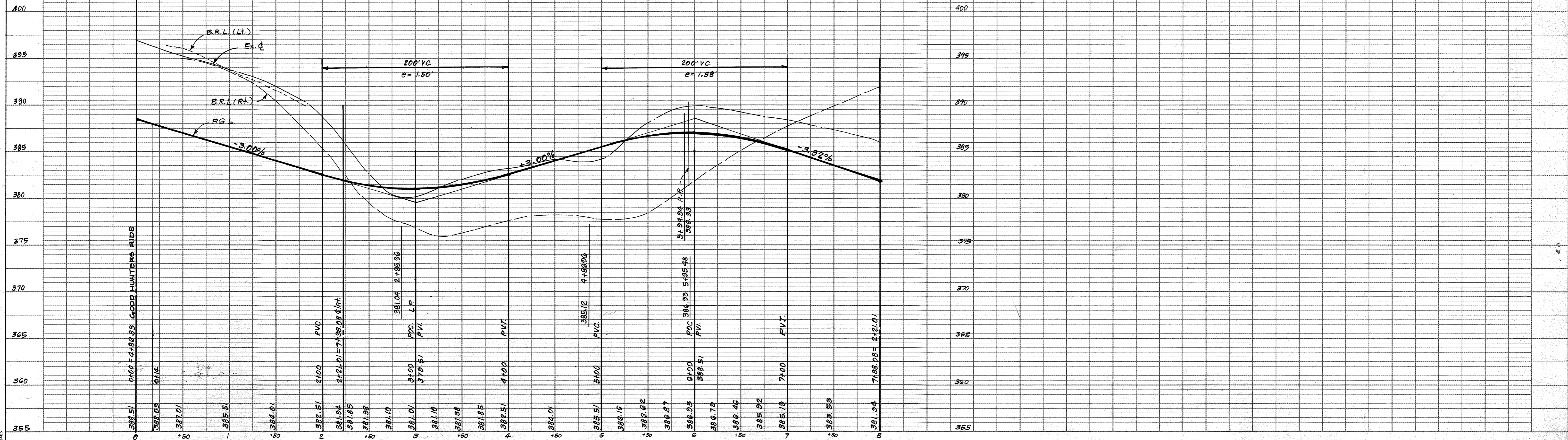
CLARK • FINEFROCK & SACKETT, INC.
 ENGINEERS • PLANNERS • SURVEYORS
 7135 MINSTREL WAY • COLUMBIA, MD. 21045 • (301) 381-7500 - BALTO. • (301) 621-8100 - WASH.

DESIGNED MCB	ROAD CONSTRUCTION PLANS FOX RUN COURT COLUMBIA VILLAGE OF LONGREACH SECTION 5 AREA 2 6TH ELECTION DISTRICT HOWARD COUNTY, MARYLAND	SCALE As Shown
DRAWN CS		DRAWING 2 OF 5
CHECKED MCB		JOB NO. 88-051
DATE 7-19-89		FILE NO. 88-051-D

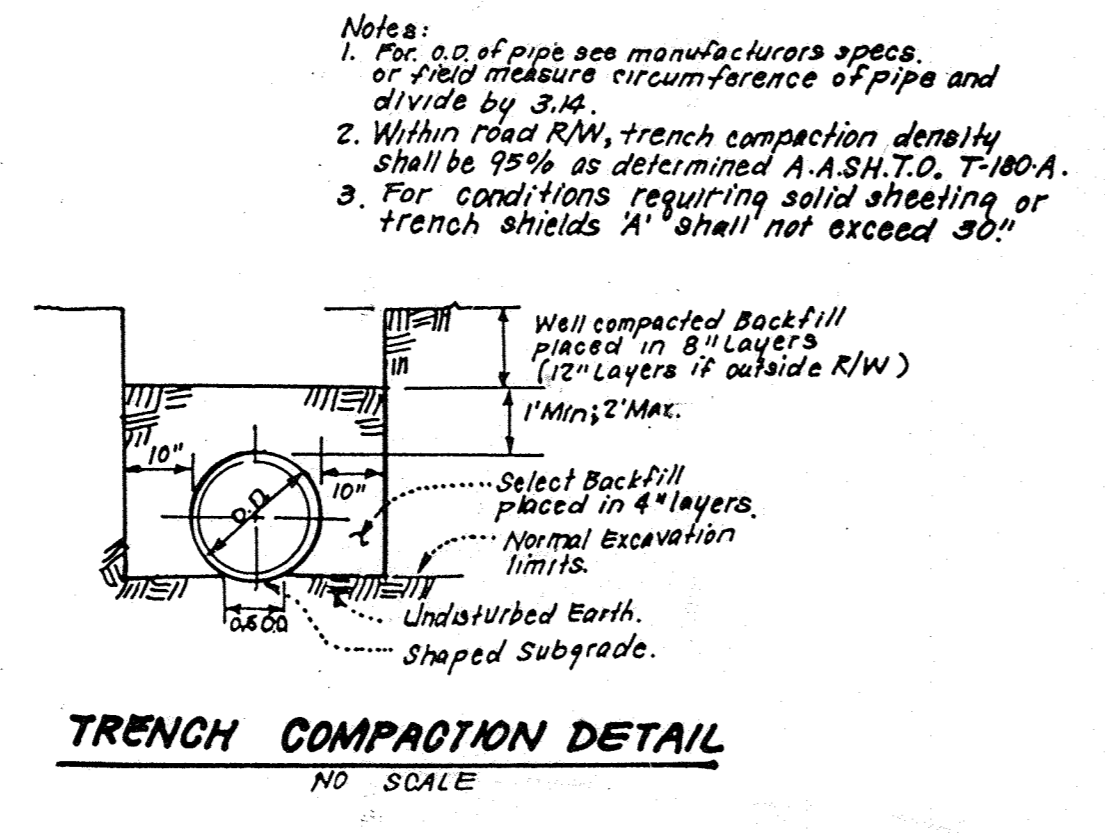
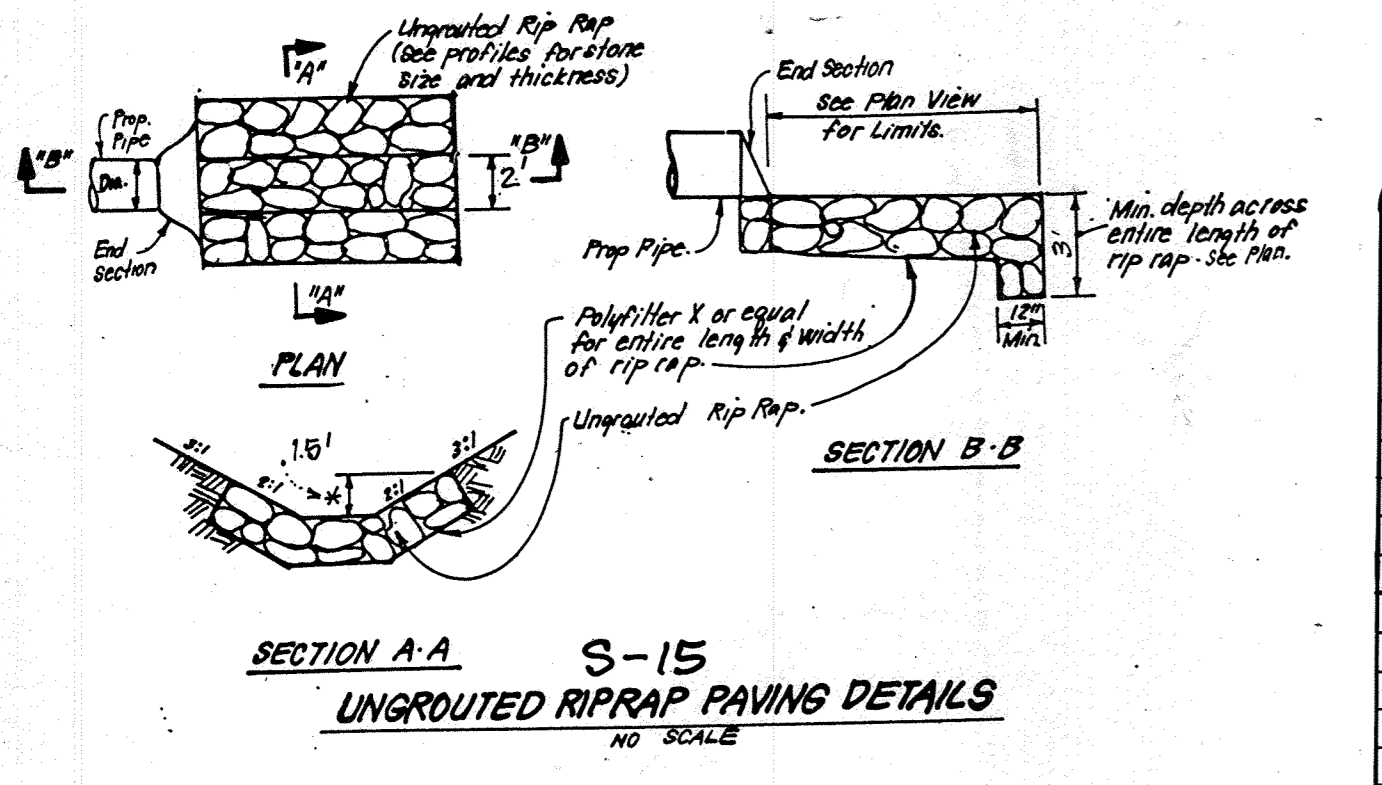
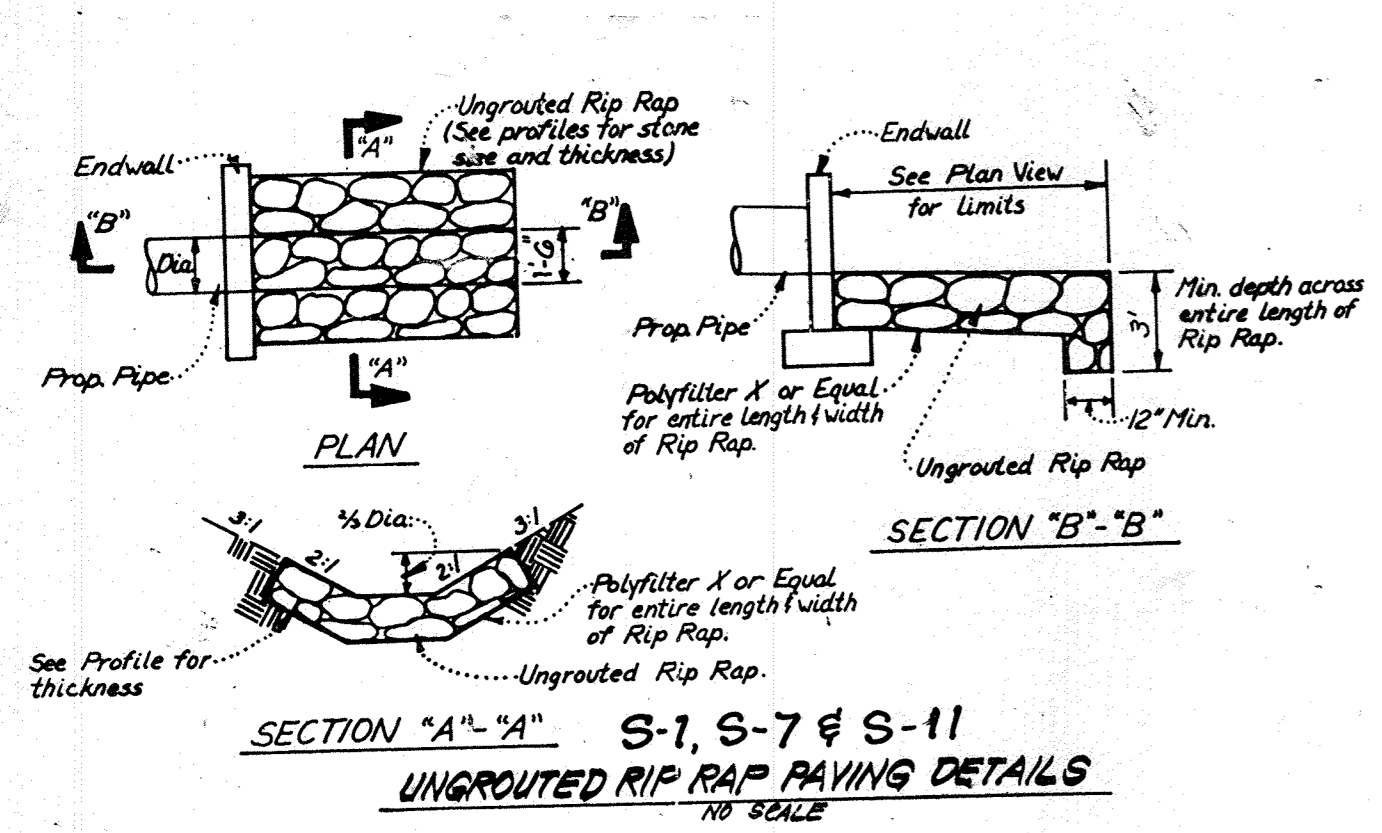
CENTERLINE CURVE DATA

PC to PT	RADIUS	DELTA	ARC	TAN	CHORD	BEARING
PC 0+27.80 to PT 0+88.18	150.00'	15°30'00"	40.58'	20'-41"	40.46'	N07°15'00"W
PC 4+86.96 to PT 5+45.32	270.00'	12°23'00"	52.36'	29'-29"	52.24'	S06°41'30"W

PROFILE - LITTLE FOXES RUN



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

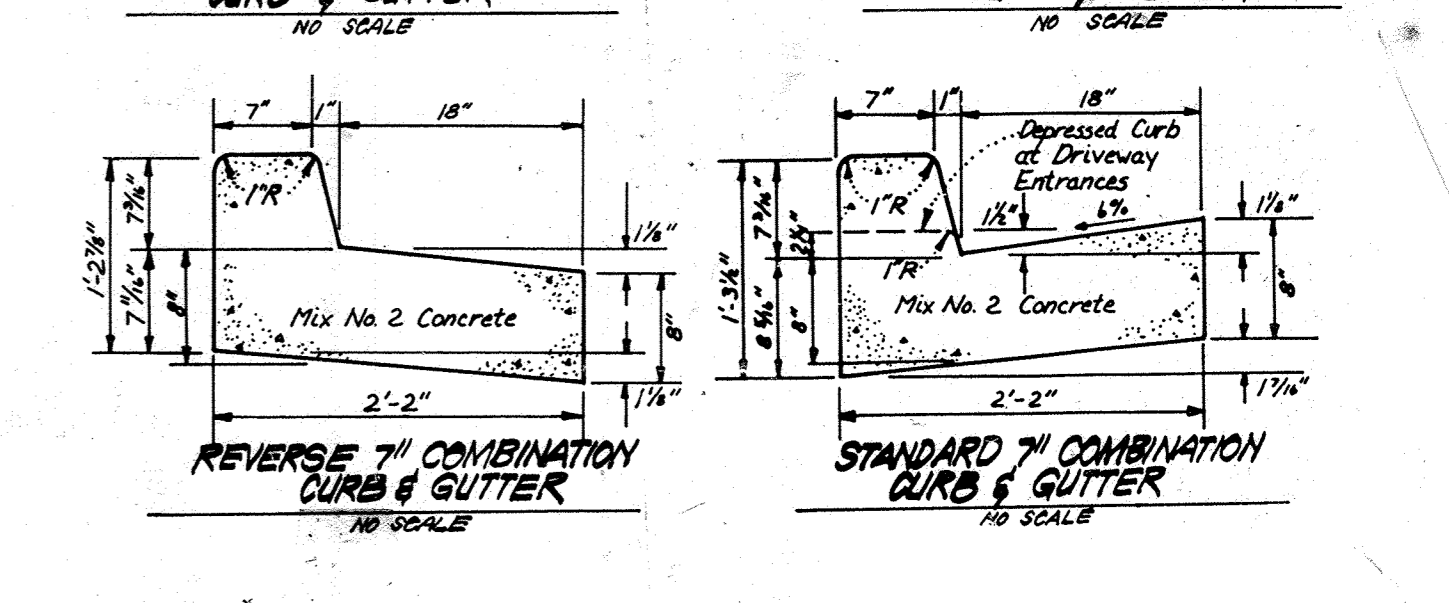
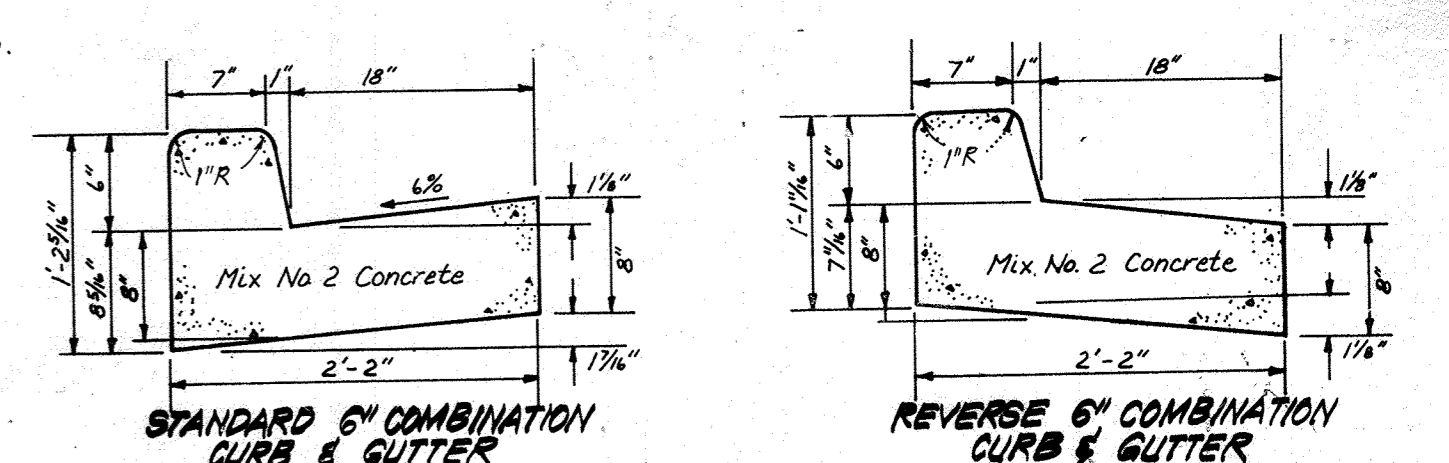
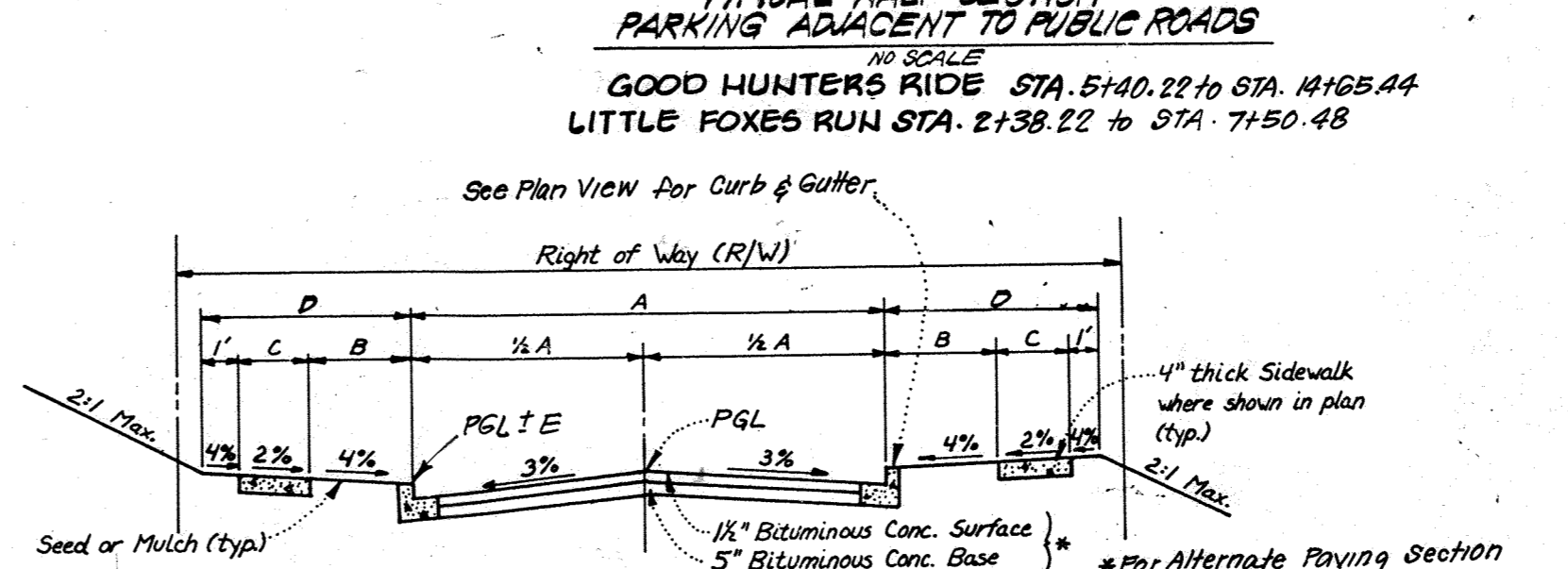
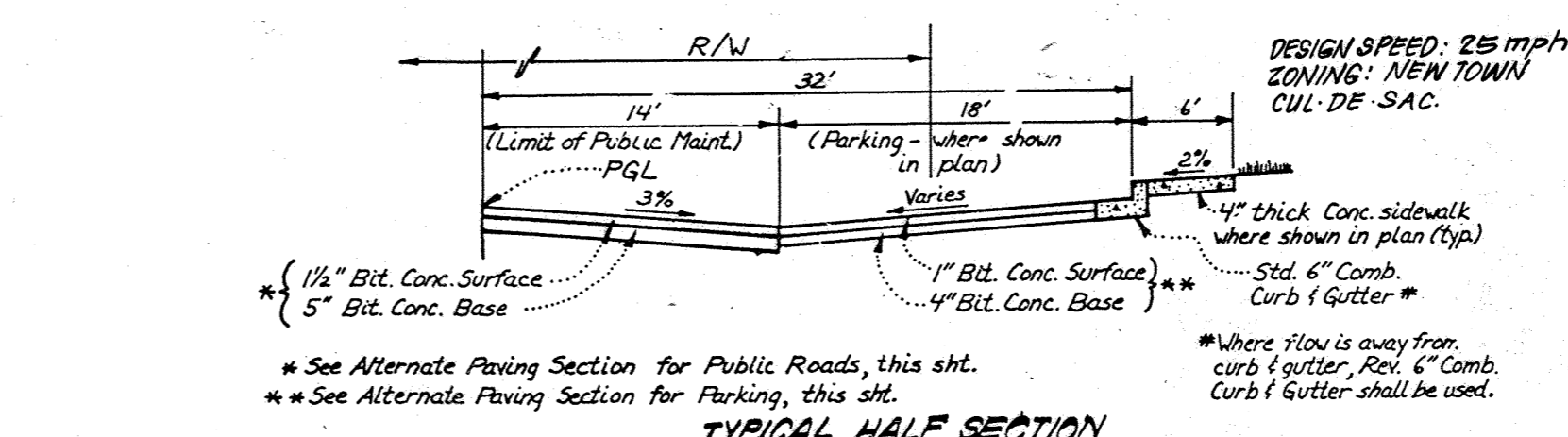


Bituminous Conc. Surface	1/4"
Bituminous Conc. Base	2 1/4"
Prime	
8" Crusher Run Base (Placed in 2 Courses)	8" or 6"
or	
6" Dense Graded Stabilized Aggregate Base Course	

ALTERNATE PAVING SECTION FOR PUBLIC ROADS (SECTION P-2)

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

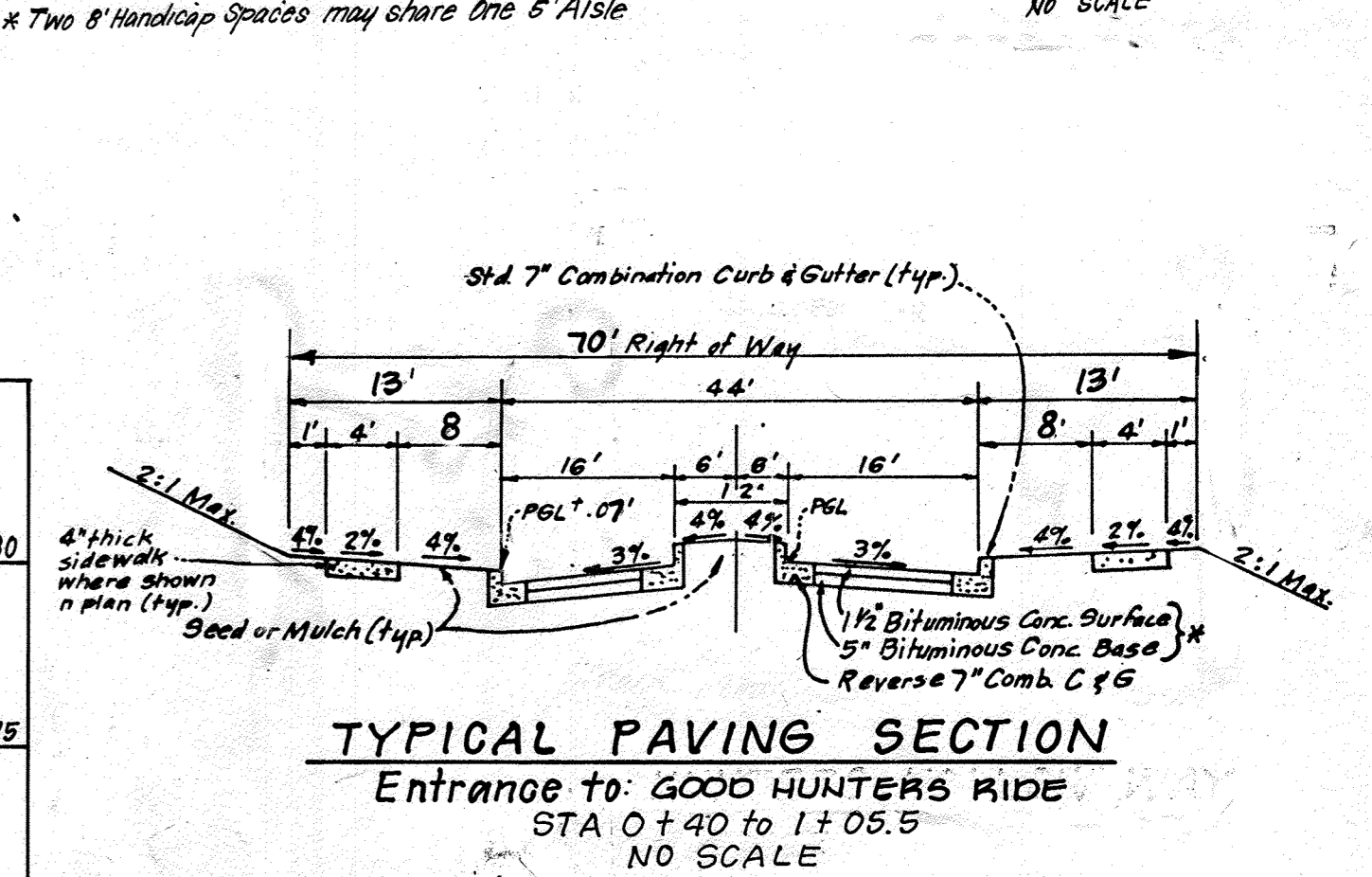
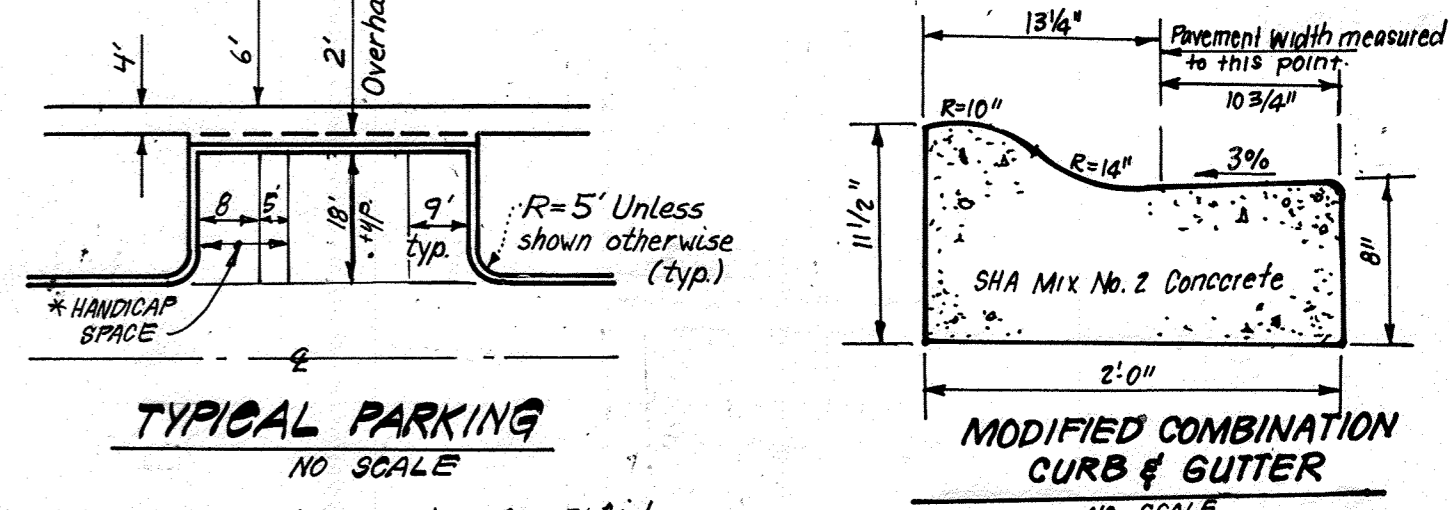
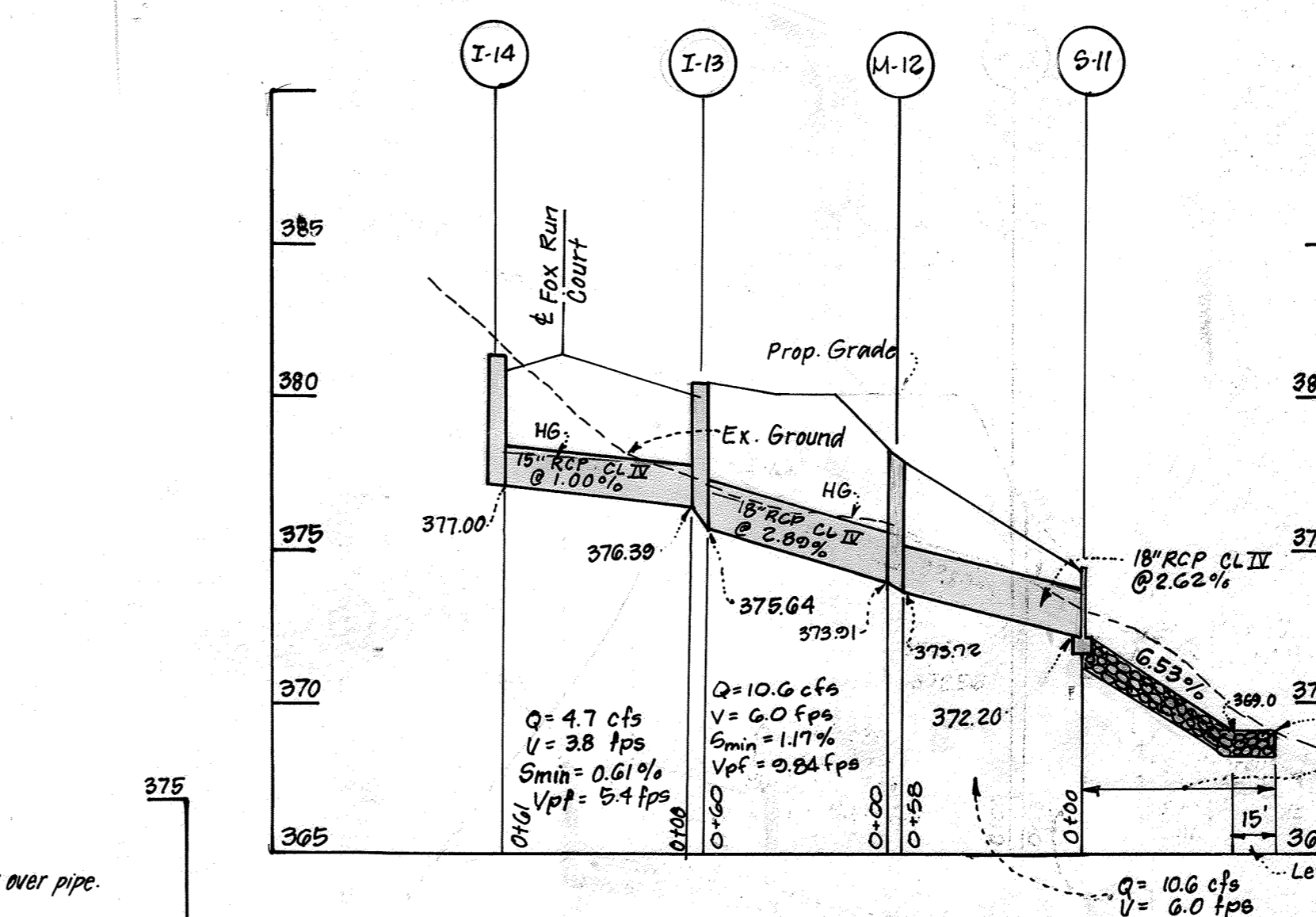
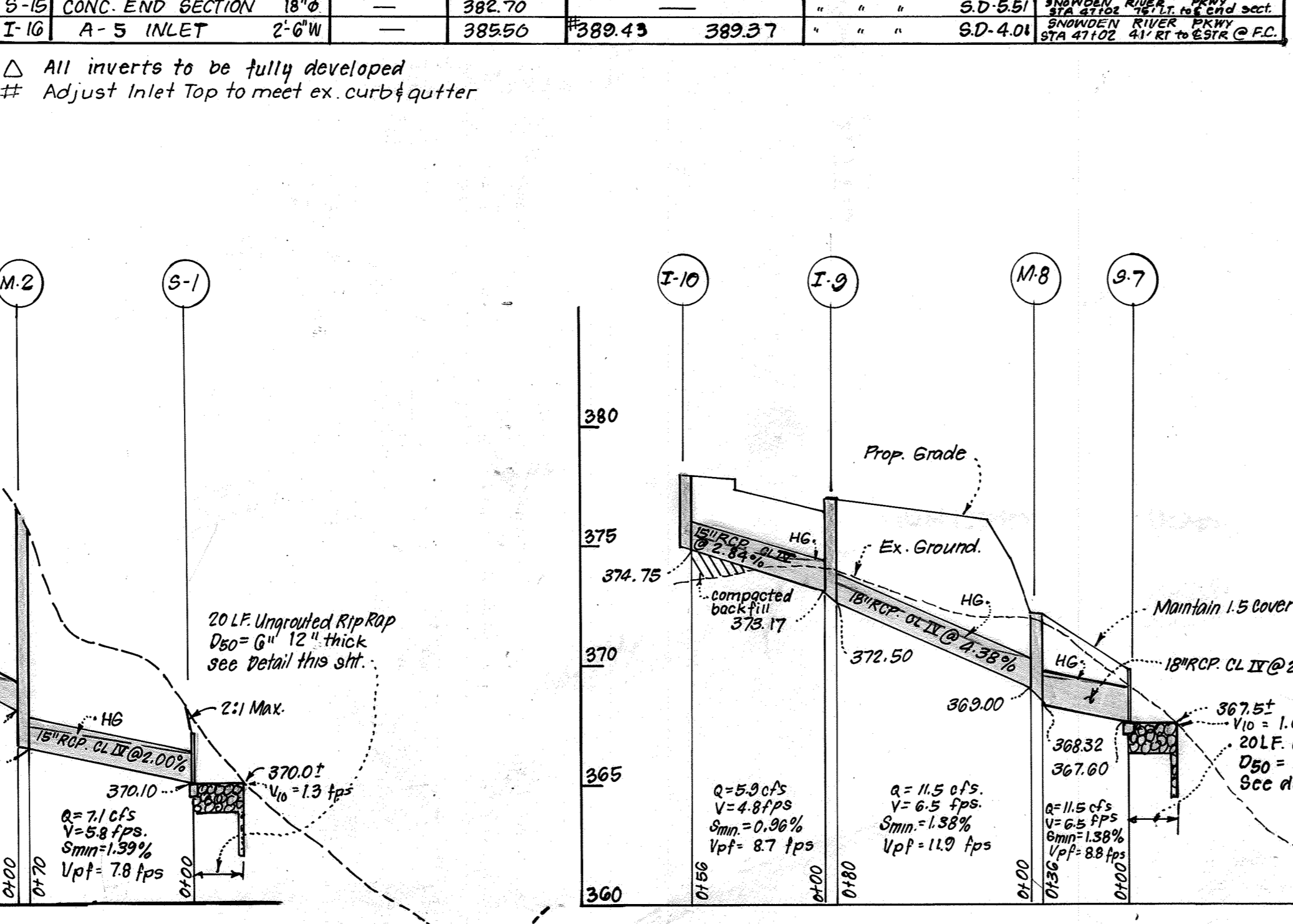
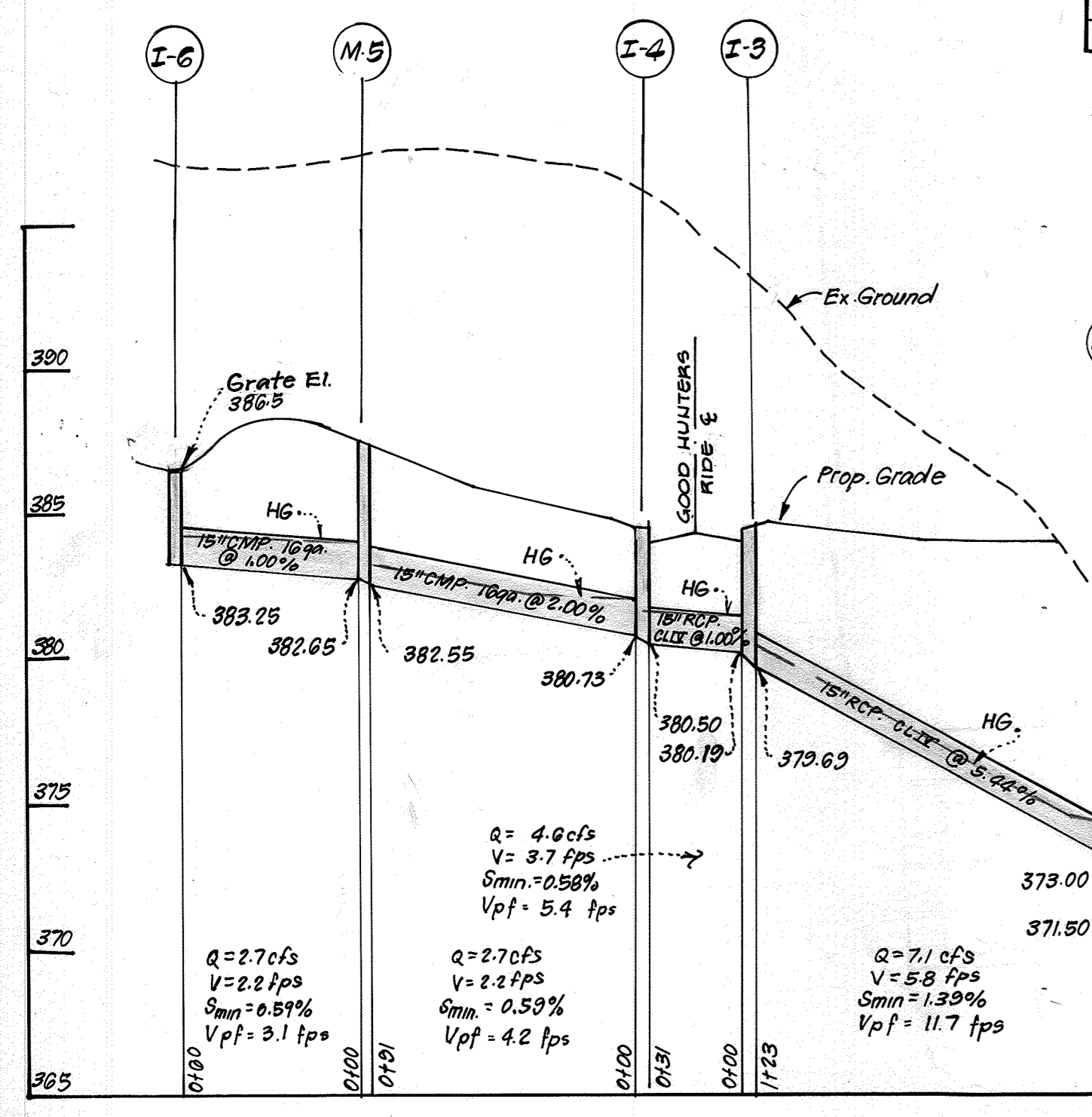
ALTERNATE PAVING SECTION FOR PARKING AREAS (SECTION P-1)



NO	TYPE	INV. IN	INV. OUT	TOP ELEVATION		REMARKS	LOCATION
				UPPER	LOWER		
G-1	TYPE "C" ENDWALL 15" #	370.10	---	372.10		Ho. Co. Std. 5D-5.21	See Plan
M-2	STD. MANHOLE 48" #	373.00	371.50	---	Ex. Ground	G-5.01	See Plan
I-3	A-10 INLET 2'-6" W	380.19	379.69	384.42		G-5.02	GOOD HUNTERS RIDGE STA 5140.22 TO 5140.48
I-4	A-10 INLET 2'-6" W	380.73	380.50	384.42		G-5.02	GOOD HUNTERS RIDGE STA 5140.22 TO 5140.48
M-5	SHALLOW MANHOLE 48" #	382.65	382.55	387.57		G-5.05	See Plan
I-6	YARD INLET	---	382.25	380.50		G-4.14	
G-7	TYPE "C" ENDWALL 18" #	367.60	---	369.85		G-5.21	
M-8	SHALLOW MANHOLE 48" #	369.00	368.32	372.00		G-5.05	
I-9	A-10 INLET 2'-6" W	373.17	372.50	377.03	376.70	G-5.02	
I-10	A-10 INLET 2'-6" W	---	374.75	378.17	377.95	G-5.02	
G-11	TYPE "C" ENDWALL 18" #	372.20	---	374.45		G-5.21	
M-12	SHALLOW MANHOLE 48" #	373.51	373.72	378.20		G-5.05	
I-13	A-10 INLET 2'-6" W	376.39	375.64	380.45	380.31	G-5.02	
I-14	A-10 INLET 2'-6" W	---	377.00	381.20	381.19	G-5.02	See Plan
B-15	CONC. END SECTION 18" #	---	382.70	---		G-5.51	
I-16	A-5 INLET 2'-6" W	385.50	---	389.43	389.37	G-4.01	

NAME & STATION	A	B	C	D	E	ZONING	DESIGN SPEED	CLASSIFICATION
Good Hunters Ride Sta. 5140.22 to 5140.48	30'	4'	4'	3'	11'	N.T.	30 mph	LOCAL
Good Hunters Ride Sta. 5140.22 to 5140.48	28'	4'	4'	3'	14'	N.T.	25 mph	CUL-DE-SAC
Little Foxes Run Sta. 2138.22 to 2138.48	28'	4'	4'	3'	14'	N.T.	25 mph	CUL-DE-SAC

SIZE	TYPE	LENGTH
15"	CMF 1699	191 LF
15"	RCP CL. III	341 LF
18"	RCP CL. III	344 LF



Reviewed for HOWARD S.C.D. and meets Technical Requirements of U.S. Soil Conservation Service

Signature: *John M. H. [unclear]* Date: 8/17/89

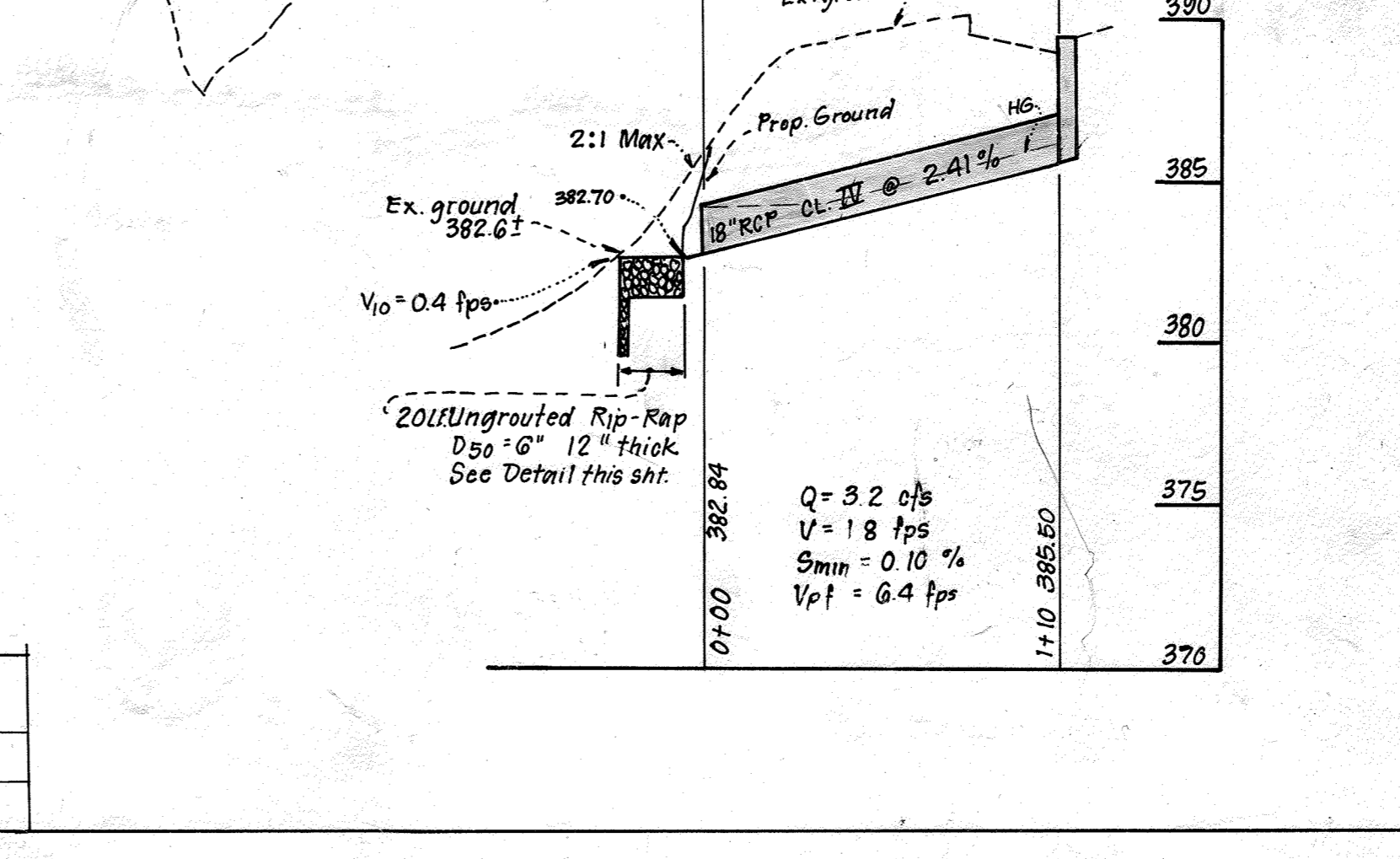
Signature: *Stephen L. [unclear]* Date: 8/17/89

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

DEVELOPERS/BUILDERS 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 Resource 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: *John M. H. [unclear]* Date: 5-15-89



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: *G. Nelson Clark* Date: 5-16-89

APPROVED: HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS.

Signature: *Donald [unclear]* Date: 8/25/89

Signature: *Donald [unclear]* Date: 8/22/89

Signature: *James [unclear]* Date: 8-24-89

Signature: *Frank [unclear]* Date: 8/22/89

APPROVED: HOWARD COUNTY DEPT. OF PLANNING & ZONING.

Signature: *Frank [unclear]* Date: 8/22/89

CLARK • FINEROCK & SACKETT, INC.

ENGINEERS • PLANNERS • SURVEYORS

7135 MINSTREL WAY • COLUMBIA, MD. 21045 • (301) 381-7500 - BALTO. • (301) 621-8100 - WASH.

DESIGNED: MCB

DRAWN: GS

CHECKED: KIW

DATE: 7-19-89

ROAD CONSTRUCTION PLANS

GOOD HUNTERS RIDGE

COLUMBIA

VILLAGE OF LONGREACH

SECTION 3 AREA 2

6TH ELECTION DISTRICT

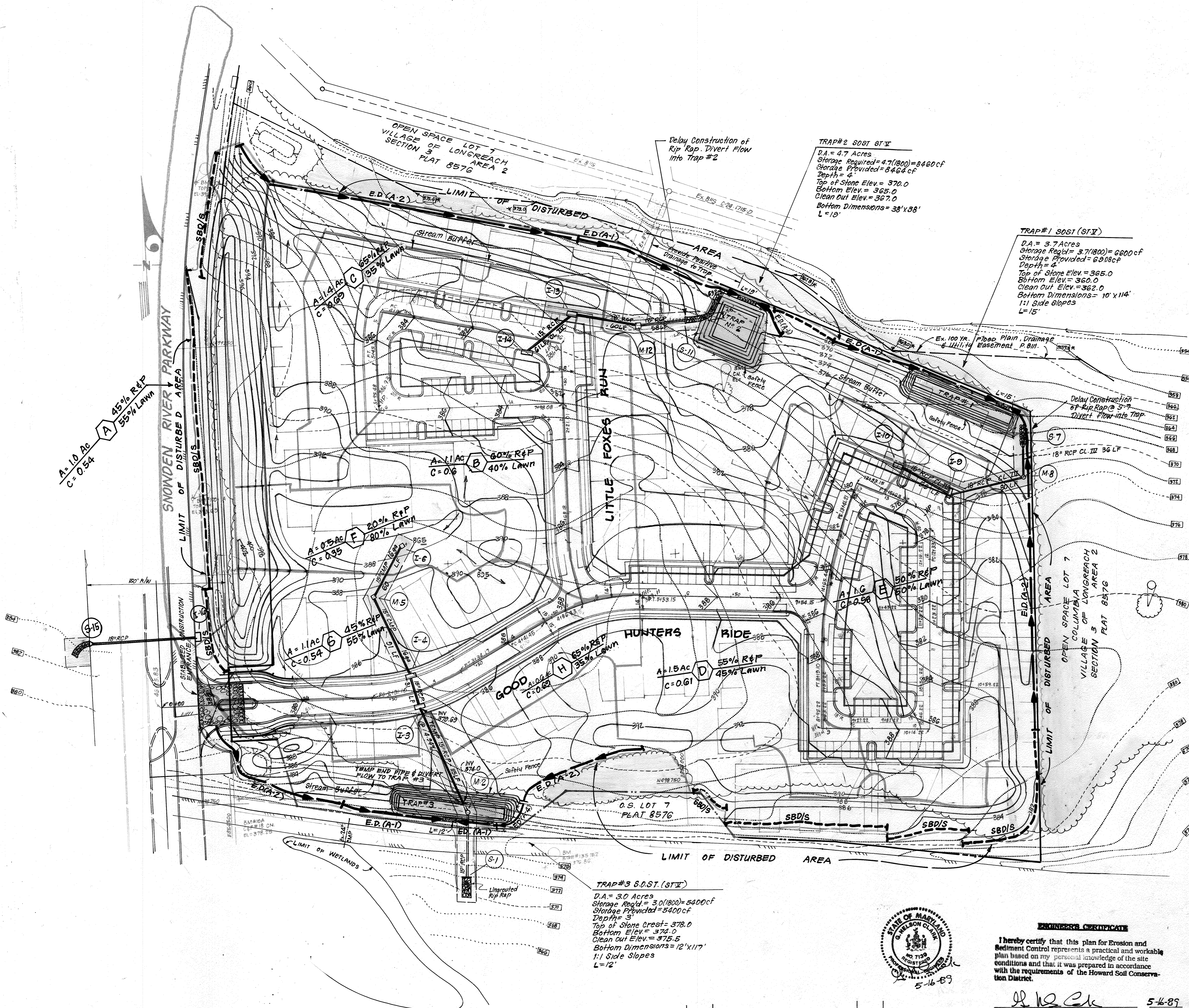
HOWARD COUNTY, MARYLAND.

SCALE: AS SHOWN

DRAWING: 3 OF 5

JOB NO.: 88-051

FILE NO.: 88-051-D



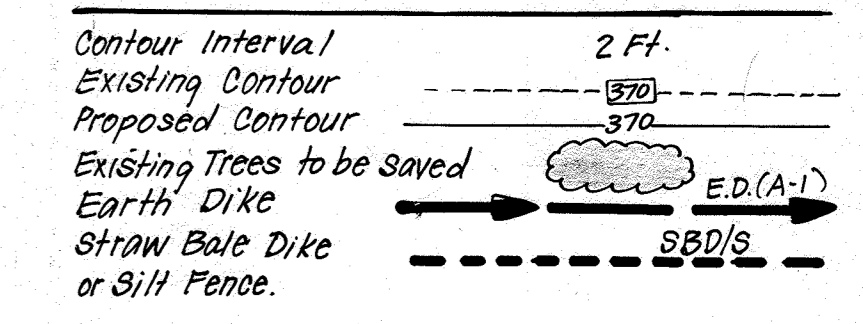
Delay Construction of Rip Rap. Divert Flow into Trap #2

TRAP#2 S.O.S.T. (STX)
 D.A. = 4.7 Acres
 Storage Req'd = 4,7(180) = 8460 cf
 Storage Provided = 8464 cf
 Depth = 4'
 Top of Stone Elev. = 370.0
 Bottom Elev. = 365.0
 Clean Out Elev. = 367.0
 Bottom Dimensions = 38' x 38'
 L = 10'

TRAP#1 S.O.S.T. (STX)
 D.A. = 3.7 Acres
 Storage Req'd = 3.7(180) = 6600 cf
 Storage Provided = 6208 cf
 Depth = 4'
 Top of Stone Elev. = 365.0
 Bottom Elev. = 360.0
 Clean Out Elev. = 362.0
 Bottom Dimensions = 10' x 114'
 1:1 Side Slopes
 L = 15'

TRAP#3 S.O.S.T. (STX)
 D.A. = 3.0 Acres
 Storage Req'd = 3.0(180) = 5400 cf
 Storage Provided = 5400 cf
 Depth = 3'
 Top of Stone Crest = 378.0
 Bottom Elev. = 374.0
 Clean Out Elev. = 375.5
 Bottom Dimensions = 12' x 117'
 1:1 Side Slopes
 L = 12'

LEGEND :



DEVELOPER'S/BUILDER'S CERTIFICATE

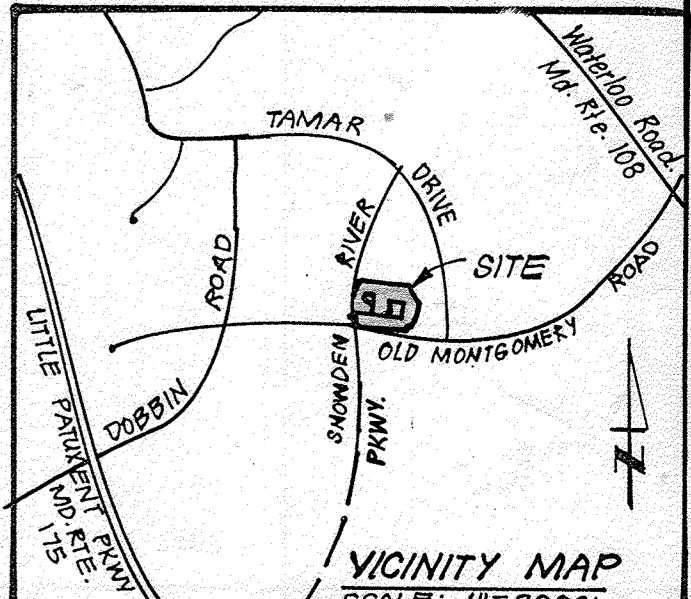
"I/We certify that all development and construction will be done according to this plan of development and plan for erosion and sediment control and that all responsible personnel involved in the construction project will have a Certificate of Attendance at a Dept. of Natural Resources Approved Training 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."

John W. Troutman
 Signature of Developer/Builder
 5-15-89
 Date

Reviewed for... HOWARD S.C.D.
 and meets Technical Requirements
James M. H. [Signature]
 Signature Date
 U.S. Soil Conservation Service

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

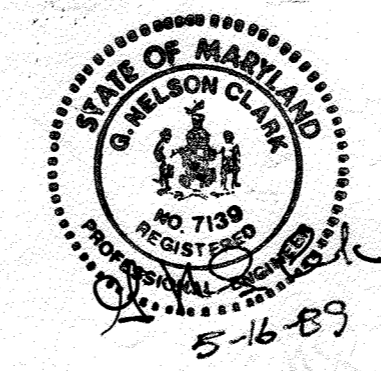
Stephen [Signature]
 Approved Date 8/2/89



APPROVED: HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS.
Paul [Signature] 8/23/89
 Chief, Land Development Division
Lawrence W. Cleveland 8/22/89
 Chief, Bureau of Highways
William B. [Signature] 8-24-89
 Chief, Bureau of Engineering

APPROVED: HOWARD COUNTY DEPT. OF PLANNING & ZONING.
Janice S. [Signature] 8/22/89
 Chief, Division of Community Planning & Land Development

CLARK • FINEFROCK & SACKETT, INC.
 ENGINEERS • PLANNERS • SURVEYORS
 7135 MINSTREL WAY • COLUMBIA, MD. 21045 • (301) 381-7500 - BALTO. • (301) 621-8100 - WASH.

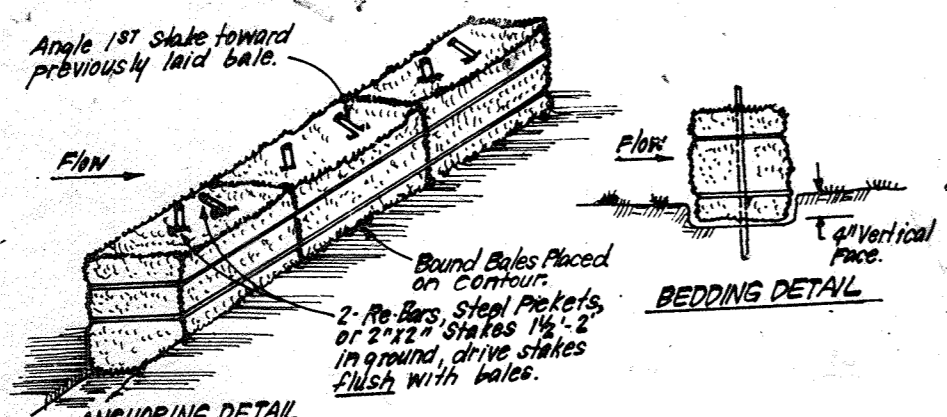


ENGINEER'S CERTIFICATE
 I hereby certify that this plan for Erosion and Sediment Control represents a practical and workable plan based on my personal knowledge of the site conditions and that it was prepared in accordance with the requirements of the Howard Soil Conservation District.

G. Nelson Clark
 G. Nelson Clark
 5-16-89
 Date

DESIGNED GLB	ROAD CONSTRUCTION PLANS SEDIMENT & EROSION CONTROL PLAN AND DRAINAGE AREA MAP. COLUMBIA VILLAGE OF LONGREACH SECTION 3 AREA 2 6TH ELECTION DISTRICT HOWARD COUNTY, MARYLAND.	SCALE As Shown	
DRAWN G.S.		DRAWING 40F5	
CHECKED MCB		JOB NO. 88-051	
DATE 7-19-89		FOR: The Troutman Company Wide Lake Village Green # 300 Columbia, Md. 21044	OWNER: HOWARD RESEARCH & DEVELOPMENT COMPANY 10275 Little Patuxent Pkwy. Columbia, Md. 21044
			FILE NO. 88-051-D

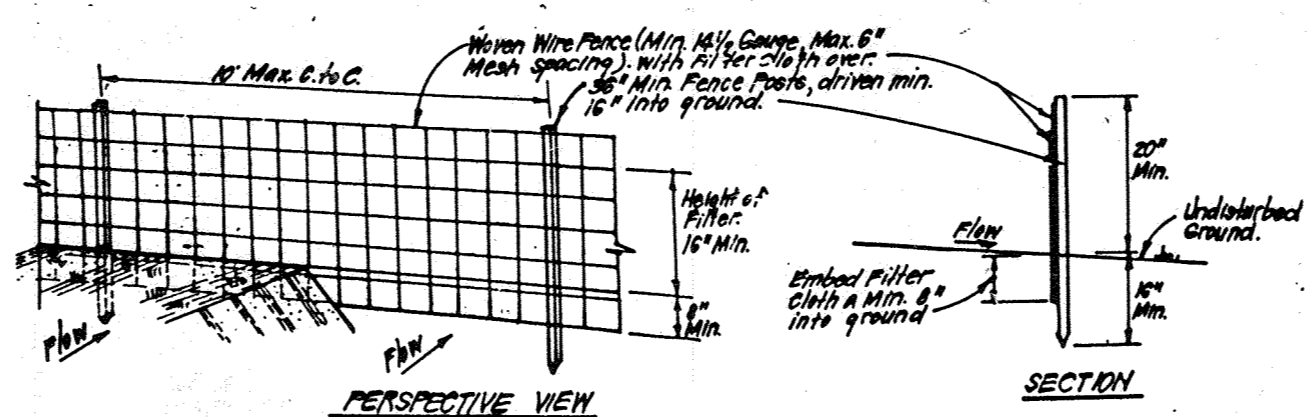
1 Relocated Str. All #1412 & Rev. R/W 7-12-90
 REVISION



CONSTRUCTION SPECIFICATIONS:

- Bales shall be placed at the top of a slope or on the contour and in a row with ends tightly meeting the adjacent bales.
- Each bale shall be embedded in the soil a min. of 4" and placed so the binding are horizontal.
- Bales shall be securely anchored in place by either 2 stakes or re-bars driven thru the bale. The 1/2" stake in each bale shall be driven toward the previously laid bale at an angle to force the bales together. Stakes shall be driven flush with the bale.
- Inspection shall be frequent and repair replacement shall be made promptly as needed.
- Bales shall be removed when they have served their usefulness so as not to block or impede storm flow or drainage.

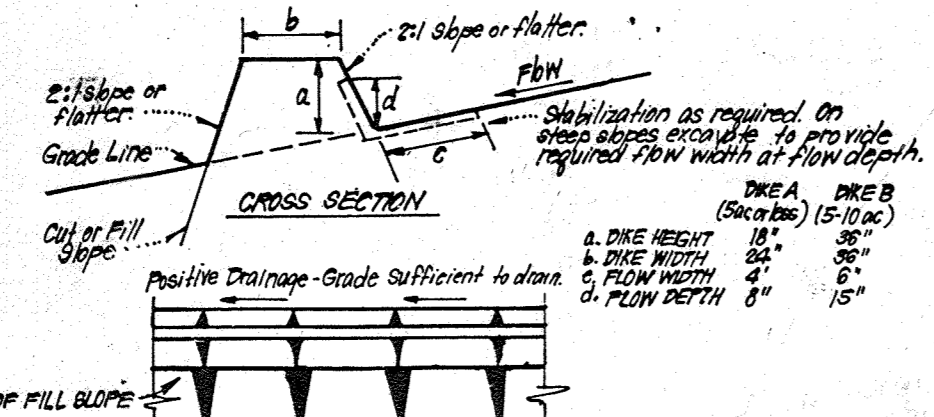
STRAW BALE DIKE DETAIL (SBD)
NO SCALE



CONSTRUCTION SPECIFICATIONS:

- When wire fence is to be fastened securely to fence posts with wire ties or staples.
- Filter Cloth to be fastened securely to woven wire fence with ties spaced every 24" at 1/4" and 3/4" sections.
- When 2 sections of filter cloth adjoin each other they shall be overlapped by 6" and "zip"ed.
- Maintenance shall be performed as needed and material removed when "pockets" develop in Silt Fence.

SILT FENCE DETAIL (S)
NO SCALE



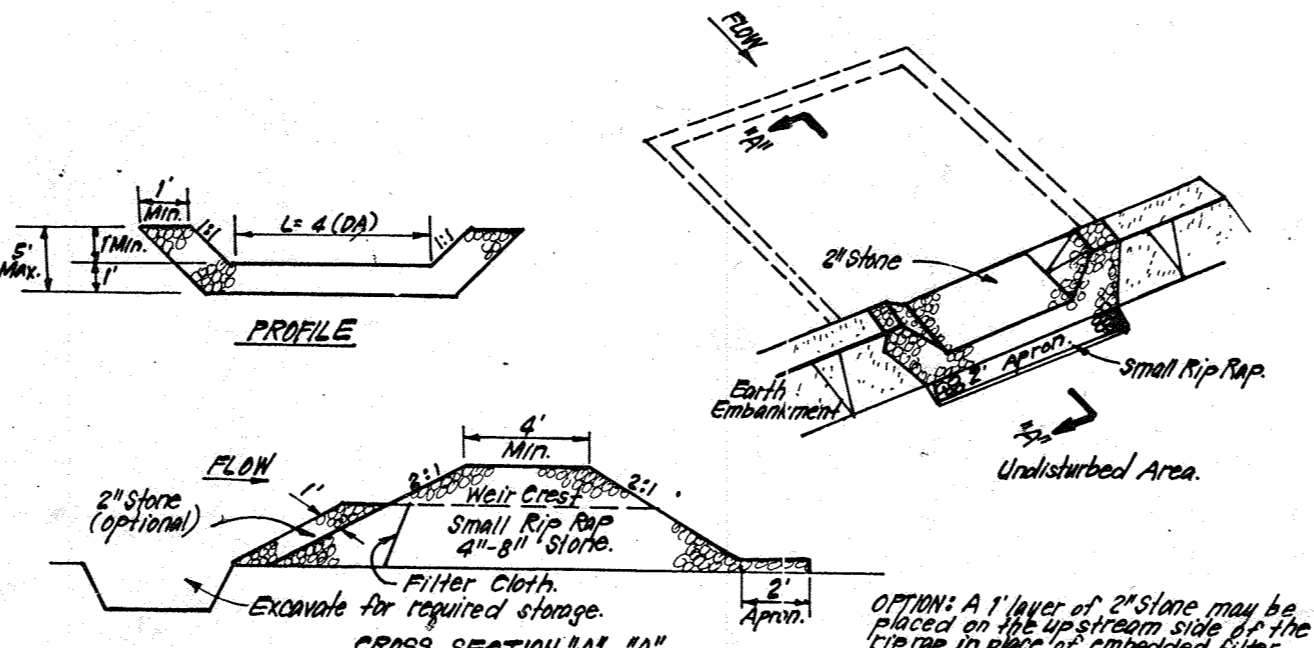
CONSTRUCTION SPECIFICATIONS:

- All dikes shall be compacted by earth-moving equipment.
- All dikes shall have positive drainage to an outlet.
- Top width may be wider and side slopes may be flatter if desired, to facilitate crossing by construction traffic.
- Outlet location should be adjusted as needed to utilize a stabilized soil outlet.
- Earth dikes shall have an outlet that functions with a minimum of erosion. Runoff shall be conveyed to a sediment trapping device such as a sediment trap or sediment basin where filter, flow channel or the drainage area above the dike are not adequately stabilized.
- Stabilization shall be: (A) in accordance with standard specifications for seed and straw mulch or straw mulch if not in seeding season, (B) flow channel as per chart below.

TYPE OF TREATMENT	CHANNEL GRADE	DIKE A	DIKE B
1	0.5 - 3.0%	Seed & Straw Mulch	Seed or Straw Mulch
2	3.1 - 6.0%	Seed & Straw Mulch	Seed & Straw Mulch or Excelsior Seed, 2" Stone
3	6.1 - 8.0%	Seed & Straw Mulch	Lined Rip Rap, 4" Stone
4	8.1 - 20.0%	Lined Rip Rap, 4" Stone	Engineering Design

A. Stone to be 2" Stone, or recycled concrete equivalent, in a layer at least 3" thick may be pressed into soil with construction equipment.
B. Rip Rap to be 4"-1" in a layer at least 8" thick, pressed into soil.
C. Approved equivalents can be substituted for any of the above materials.
7. Periodic inspection and Required Maintenance must be provided after each rain.

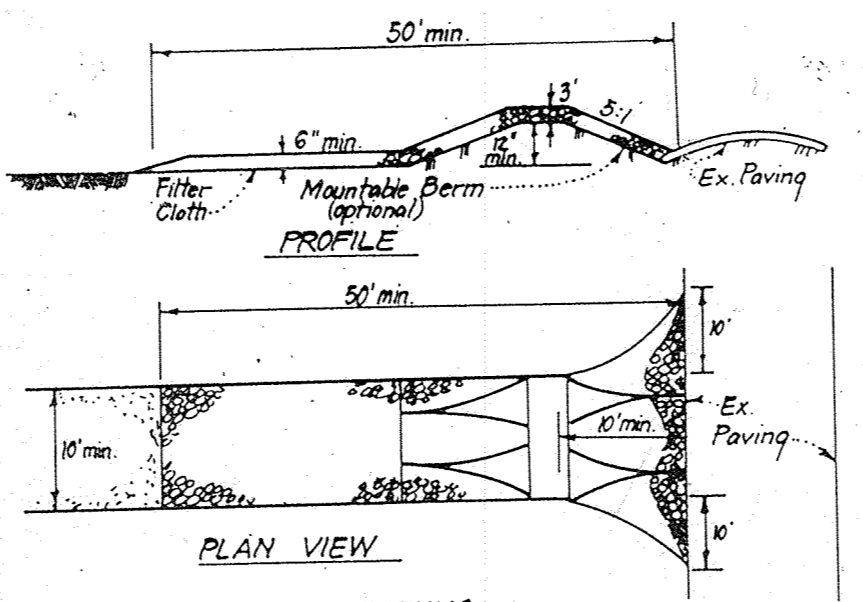
EARTH DIKE DETAIL (E.D.)
NO SCALE



CONSTRUCTION SPECIFICATIONS:

- Area under embankment shall be cleared, grubbed and stripped of any vegetation and root mat. The top soil shall be preserved.
- The fill material for the embankment shall be free of roots and other woody vegetation as well as oversized stones, rocks, organic material or other objectionable material. The embankment shall be compacted by tamping with equipment or wheel. It is to be well constructed.
- All cut and fill slopes shall be 2:1 or flatter.
- The stone used in the outlet shall be small rip rap 4"-8" along with 1" thickness of 2" aggregate placed on the up-slope side of the small rip rap to eliminate rip rap cloth in the rip rap.
- Sediment shall be removed and trap restored to the original condition when the sediment has accumulated to 1/2 the design depth of the trap.
- The structure shall be inspected after each rain and repairs made as needed.
- Construction operations shall be carried out in such a manner that erosion and water pollution is minimized.
- The structure shall be removed and the area stabilized when the drainage area has been properly stabilized.

STONE OUTLET SEDIMENT TRAP (S.O.S.T.) STV
NO SCALE



CONSTRUCTION SPECIFICATIONS:

- Stone size - Use 2" stone, or reclaimed or recycled concrete equivalent.
- Length - As required, but not less than 50 feet (exception on a single residence lot where a 30 foot minimum length would apply).
- Thickness - Not less than six (6) inches.
- Width - Ten (10) feet minimum, but not less than the full width at points where ingress or egress occurs.
- Filter Cloth - Will be placed over the entire area prior to placing of stone. Filter will not be required on a single family residence lot.
- Surface Water - All surface water flowing or diverted toward construction entrances shall be piped across the entrance. If piping is impractical, a mountable berm with 3:1 slopes will be permitted.
- Maintenance - The entrance shall be maintained in a condition, which will prevent tracking or flowing of sediment onto public rights-of-way. This may require periodic top dressing with additional stone as conditions demand and repair and/or cleanup of any measures used to trap sediment. All sediment spilled, dropped, washed or tracked onto public rights-of-way must be removed immediately.
- Washing - Wheel's shall be cleaned to remove sediment prior to entrance onto public rights-of-way. When washing is required, it shall be done on an area stabilized with stone and which drains into an approved sediment trapping device.
- Periodic inspection and needed maintenance shall be provided after each rain.

STABILIZED CONSTRUCTION ENTRANCE (SCE)
NO SCALE

SEDIMENT CONTROL NOTES

- A minimum of 24 hours notice must be given to the Howard County Office of Inspection and Permits prior to the start of any construction. (892-2437)
 - All vegetative and structural practices are to be installed according to the provisions of this plan and are to be in conformance with the 1983 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL.
 - Following initial soil disturbance or redistribution, permanent or temporary stabilization shall be completed within a 7 calendar days for all perimeter sediment control structures, dikes, perimeter slopes and all slopes greater than 3:1, b) 14 days as to all other disturbed or graded areas on the project site.
 - All sediment traps/basins shown must be fenced and warning signs posted around their perimeter in accordance with Vol. 1, Chapter 12, of the HOWARD COUNTY DESIGN MANUAL, Storm Drainage.
 - All disturbed areas must be stabilized within the time period specified above in accordance with the 1983 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL for permanent seedings (Sec. 51) and (Sec. 54), temporary seedings (Sec. 50) and mulching (Sec. 52). Temporary stabilization with mulch alone can only be done when recommended seeding dates do not allow for proper germination and establishment of grasses.
 - All sediment control structures are to remain in place and are to be maintained in operative condition until permission for their removal has been obtained from the Howard County Sediment Control Inspector.
- 7) Site Analysis:**
- | | |
|------------------------------------|---------------|
| Total Area of Site | 11.7 Acres |
| Area Disturbed | 11.6 Acres |
| Area to be roofed or paved | 1.9 Acres |
| Area to be vegetatively stabilized | 9.7 Acres |
| Total Cut | 48322 Cu. yds |
| Total Fill | 35277 Cu. yds |
| Offsite waste/borrow area location | N/A |
- Any sediment control practice which is disturbed by grading activity for placement of utilities must be repaired on the same day of disturbance.
 - Additional sediment control must be provided, if deemed necessary by the Howard County DPM sediment control inspector.
 - On all sites with disturbed areas in excess of 2 acres, approval of the inspection agency shall be requested upon completion of installation of perimeter erosion and sediment controls, but before proceeding with any other earth disturbance or grading. Other building or grading inspection approvals may not be authorized until this initial approval by the inspection agency is made.
 - If houses are to be constructed on an "As-Built" basis, at random, Single lot Sediment Control as shown below shall be implemented. N/A
 - All pipes to be blocked at the end of each day (see detail below).
 - The total amount of straw bale dikes/silt fence equals 1090 L.F.

PERMANENT SEEDING NOTES

Apply to graded or cleared areas not subject to immediate further disturbance where a permanent long-lived vegetative cover is needed.

Seedbed Preparation: Loosen upper three inches of soil by raking, discing or other acceptable means before seeding, if not previously indicated.

Soil Amendments: In lieu of soil test recommendations, use one of the following seedlings:

- Preferred - Apply 2 tons per acre domestic limestone (92 lbs/1000 sq ft) and 600 lbs per acre 10-10-10 fertilizer (14 lbs/1000 sq ft) before seeding. Harrow or disc into upper three inches of soil. At time of seeding, apply 400 lbs per acre 30-0-0 ureaform fertilizer (9 lbs/1000 sq ft).
- Acceptable - Apply 2 tons per acre domestic limestone (92 lbs/1000 sq ft) and 1000 lbs per acre 10-10-10 fertilizer (23 lbs/1000 sq ft) before seeding. Harrow or disc into upper three inches of soil.

Seeding - For the periods March 1 thru April 30, and August 1 thru October 15, seed with 60 lbs per acre (1.4 lbs/1000 sq ft) of Kentucky 31 Tall Fescue. For the period May 1 thru July 31, seed with 60 lbs Kentucky 31 Tall Fescue per acre and 2 lbs per acre (.05 lbs/1000 sq ft) of weeping lovegrass. During the period of October 16 thru February 28, protect site by: Option (1) 2 tons per acre of well anchored straw mulch and seed as soon as possible in the spring. Option (2) Use sod. Option (3) Seed with 60 lbs/acre Kentucky 31 Tall Fescue and mulch with 2 tons/acre well anchored straw.

Mulching - Apply 1 1/2 to 2 tons per acre (70 to 90 lbs/1000 sq ft) of unrotted small grain straw immediately after seeding. Anchor mulch immediately after application using mulch anchoring tool or 218 gal per acre (5 gal/1000 sq ft) of emulsified asphalt on flat areas. On slopes 8 feet or higher, use 348 gal per acre (8 gal/1000 sq ft) for anchoring.

Maintenance - Inspect all seeded areas and make needed repairs, replacements and reseedings.

TEMPORARY SEEDING NOTES

Apply to graded or cleared areas likely to be redisturbed where a short-term vegetative cover is needed.

Seedbed Preparation: Loosen upper three inches of soil by raking, discing or other acceptable means before seeding, if not previously indicated.

Soil Amendments: Apply 600 lbs per acre 10-10-10 fertilizer (14 lbs/1000 sq ft)

Seeding - For periods March 1 thru April 30 and from August 1 thru November 15, seed with 2 1/2 bushels per acre of annual rye (3.2 lbs/1000 sq ft). For the period May 1 thru August 14, seed with 3 lbs per acre of weeping lovegrass (.07 lbs/1000 sq ft). For the period November 16 thru February 28, protect site by applying 2 tons per acre of well anchored straw mulch and seed as soon as possible in the spring, or use sod.

Mulching - Apply 1 1/2 to 2 tons per acre (70 to 90 lbs/1000 sq ft) of unrotted small grain straw immediately after seeding. Anchor mulch immediately after application using mulch anchoring tool or 218 gal per acre (5 gal/1000 sq ft) of emulsified asphalt on flat areas. On slopes 8 ft or higher, use 348 gal per acre (8 gal/1000 sq ft) for anchoring.

Refer to the 1983 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL for rate and methods not covered.

CONSTRUCTION SEQUENCE:

	NO. OF DAYS
1. Obtain grading permit.	2
2. Clear & grub for installation of sediment controls.	5
3. Install sediment erosion controls.	7
4. Clear & rough grade site & temporarily stabilize.	30
5. Install utilities, storm drains & paving.	120
6. Fine grade and stabilize site.	30
7. Upon approval of the sediment control inspector, remove sediment controls and stabilize, and construct remaining storm drain.	5

* Temporarily divert storm drainage to Traps as shown in plan. Construct Storm Drainage S-1 to M-2 after Trap #3 has been removed.

Reviewed for.....HOWARD.....S.C.D.
Name
and meets Technical Requirements
Signature *M. Fisher* 8-17-89 Date
Signature *[Signature]* Date
U.S. Soil Conservation Service

DEVELOPER/BUILDER 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 *John S. Troutman* Date 5-15-89

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 of Engineer *B. Nelson Clark* Date 5-16-89

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

Signature *[Signature]* Date 8/17/89
APPROVED

APPROVED: HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS.

Signature *Samuel Lepson* Date 8/23/89
Chief, Land Development Division

Signature *Barville W. Wallace* Date 8/22/89
Chief, Bureau of Highways

Signature *[Signature]* Date 8-24-89
Chief, Bureau of Engineering

APPROVED: HOWARD COUNTY DEPT. OF PLANNING & ZONING.

Signature *[Signature]* Date 8/25/89
Chief, Division of Community Planning & Land Development

CLARK • FINEFROCK & SACKETT, INC.
ENGINEERS • PLANNERS • SURVEYORS
7135 MINSTREL WAY • COLUMBIA, MD. 21045 • (301) 381-7500 - BALTO. • (301) 621-8100 - WASH.

DESIGNED	GLB	ROAD CONSTRUCTION PLANS	SCALE
DRAWN	GS	SEDIMENT & EROSION CONTROL DETAILS	As Shown
CHECKED	K/W	COLUMBIA	DRAWING
	GLB	VILLAGE OF LONGREACH	5 OF 5
		SECTION 3 AREA 2	JOB NO.
		6TH ELECTION DISTRICT	88-051
		HOWARD COUNTY, MARYLAND.	FILE NO.
DATE	5-12-89	OWNER: HOWARD RESEARCH & DEVELOPMENT COMPANY Wild Lake Village Green #300 Columbia, Md. 21044	88-051-D