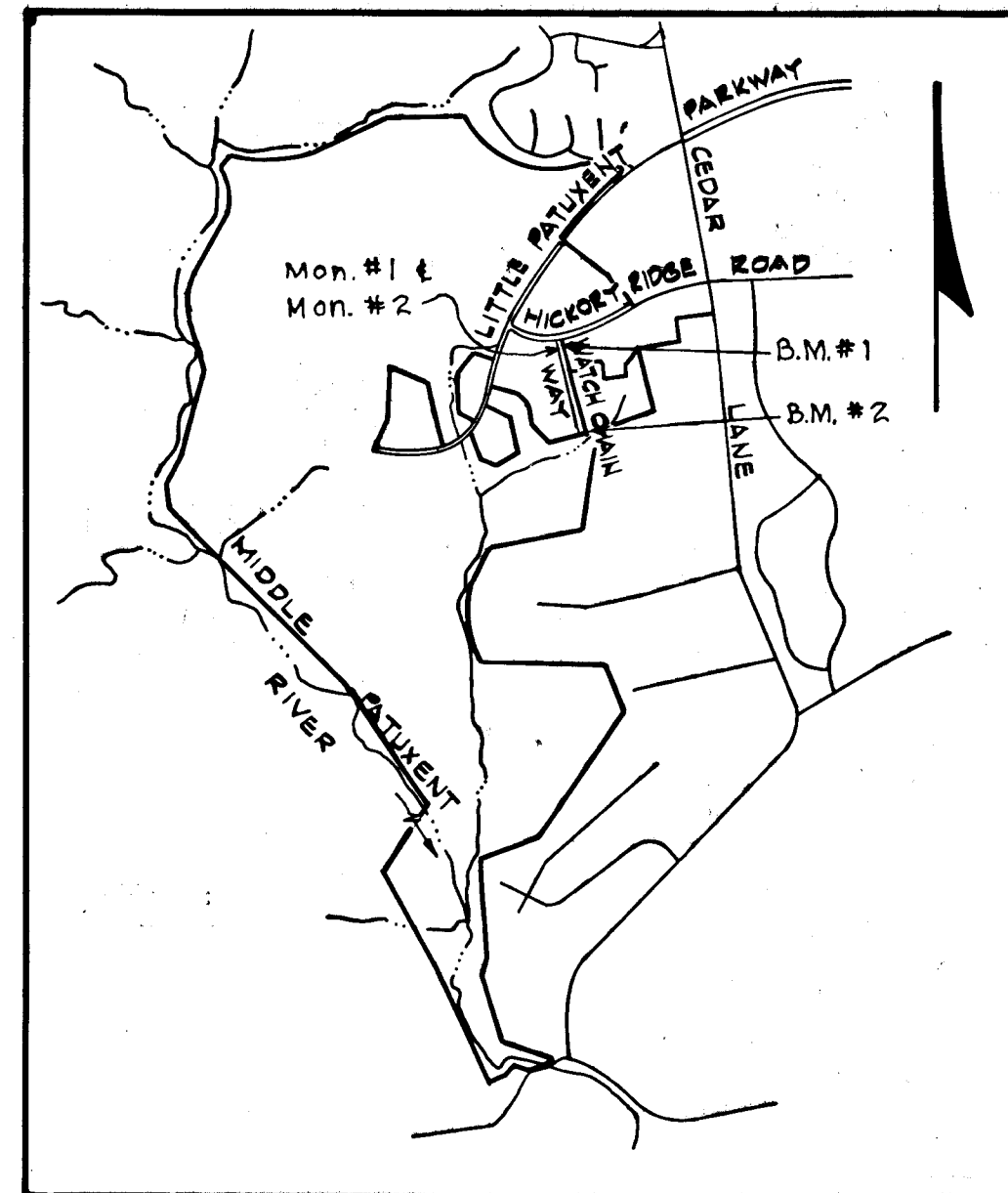


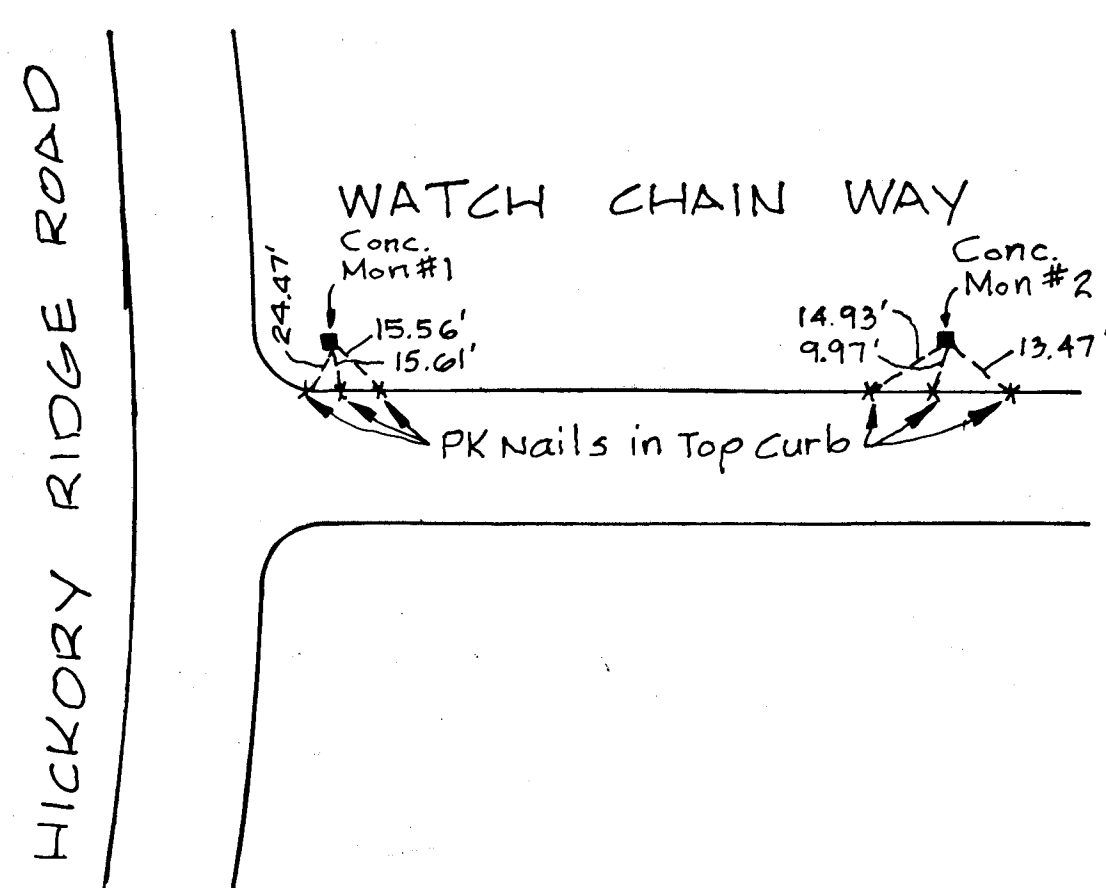
COLUMBIA

HOWARD COUNTY, MARYLAND
 5TH ELECTION DISTRICT

ROAD CONSTRUCTION PLANS VILLAGE OF HICKORY RIDGE SECTION 3 AREA 2



VICINITY MAP
 Scale: 1" = 2,000'



MONUMENT #1 AND MONUMENT #2
 RECOVERY SKETCH
 No Scale

SHEET INDEX	
NO.	DESCRIPTION
1.	TITLE SHEET
2.	PLAN AND PROFILE - WATCH CHAIN WAY
3.	ROADWAY DETAILS
4.	SEDIMENT CONTROL PLAN AND DETAILS

GENERAL NOTES

- All work shall be done in accordance with Howard County Standards, Specifications and Details for Construction.
- All utility companies must be notified 24 hours in advance of any construction.
- All inlets shall be Howard County Standard unless otherwise shown. All "A" inlets shall be depressed.
- Storm drain trenches within road rights-of-ways shall be backfilled and compacted in accordance with Howard County Standards, Specifications and Details of Construction.
- Any damage to public rights-of-ways or paving will be corrected at the developers expense.
- Approximate location of existing utilities are shown. The contractor shall take all necessary precautions to protect existing utilities and to maintain uninterrupted service. Any damage incurred due to contractor's operations shall be repaired immediately at the contractor's expense.
- The contractor shall test pit existing utilities where directed by the Engineer a minimum of two weeks in advance of any construction.
- Contractor to notify the Howard County Dept. of Inspectors and Permits at least 3 days before starting work shown on these drawings. Telephone 202-2436.
- Stormwater Management for this submission is being provided and shown under Village of Hickory Ridge, Section 3, Areal, F-83-120.
- Provide street lights at the following locations:
 - 250-Watt Mercury vapor lamp pendant mounted on a 30-foot galvanized steel pole located at the southern corner of Hickory Ridge Road and Watch Chain Way.
 - 250-Watt Mercury vapor lamp pendant mounted on a 25-foot galvanized pole located at station 5+00 left and station 8+80 left of Watch Chain Way.

BENCH MARKS

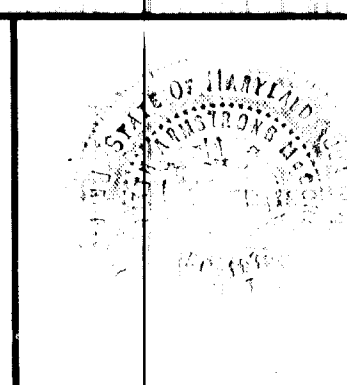
W.P.A. B.M. Hickory #10 - E.E. spike in trunk of 20' Oak 100' right of Sta. 2+10 Watch Chain Way Elev. 426.95
 W.P.A. B.M. Hickory #22 - E.E. spike in base of 20' Oak 20' left of Sta. 6+35 Watch Chain Way Elev. 445.13

BENCH MARKS

B.M. #1 - Square cut in top of inlet slab 30' Left of Sta. 0+67 Watch Chain Way - Elev. 420.28
 B.M. #2 - Square cut in top of curb 15' right of Sta. 11+25 Watch Chain Way Elev. 408.05

Rev. Date	Rev. No.	Revision Description
7-8-83	1	As per DPW and Sediment Control Comments

DEVELOPER
 THE HOWARD RESEARCH AND DEVELOPMENT CORPORATION
 10275 LITTLE PATUXENT PARKWAY
 COLUMBIA, MARYLAND 21044



WHITMAN, REARDT AND ASSOCIATES ENGINEERS
 2315 ST. PAUL STREET
 BALTIMORE, MARYLAND 21218
 Kenneth A. McCord
 Registered Engineer
 NO. 1974

#42

CURVE DATA

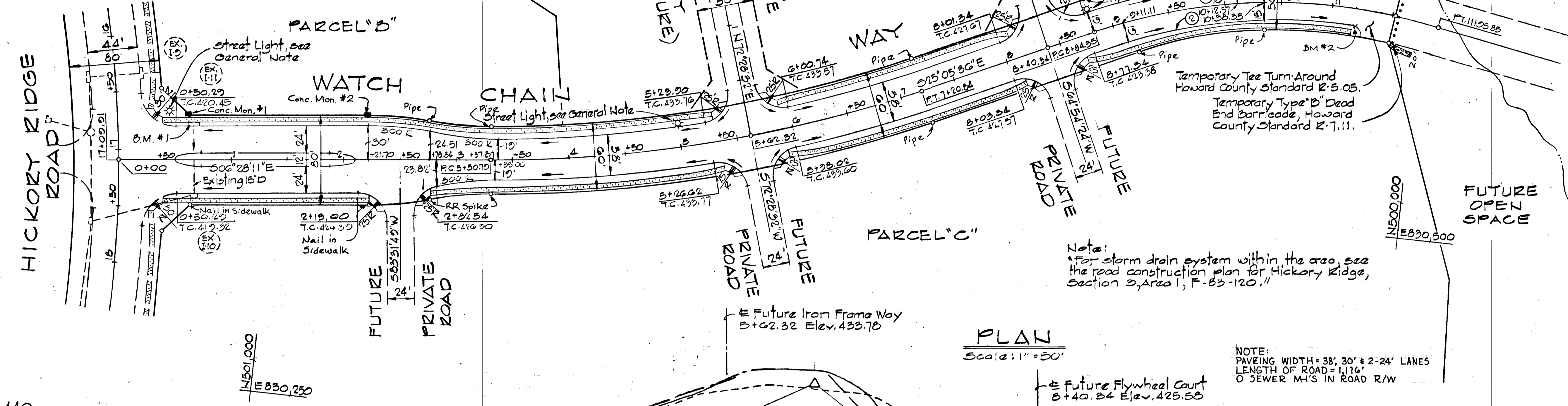
PC 3+30.70 TO INT. 5+02.92
 $\Delta: 11^{\circ}05'17''$ T: 116.12'
 $R: 1200.00'$ Ch: 231.17'
 Arc: 231.53' Ch.Brg: $S11^{\circ}50'49''E$

INT. 5+02.92 TO PT. 7+20.84
 $\Delta: 07^{\circ}31'02''$ T: 19.32'
 $R: 1200.00'$ Ch: 58.41'
 Arc: 168.52' Ch.Brg: $S21^{\circ}18'32''E$

PT. 7+20.84 TO PT. 11+56.05
 $\Delta: 35^{\circ}41'44''$ T: 160.99'
 $R: 300.00'$ Ch: 306.49'
 Arc: 311.50' Ch.Brg: $S07^{\circ}14'44''E$

① $\Delta: 17^{\circ}38'50''$ T: 67.37'
 $R: 434.00'$ Ch: 133.13'
 Arc: 133.67' Ch.Brg: $S16^{\circ}10'11''E$

② $\Delta: 17^{\circ}38'50''$ T: 62.09'
 $R: 400.00'$ Ch: 122.71'
 Arc: 123.20' Ch.Brg: $S16^{\circ}10'10''E$



PLAN
Scale: 1" = 50'

NOTE: PAVING WIDTH = 38', 30' & 2-24' LANES
 LENGTH OF ROAD = 1,116'
 0 SEWER M'S IN ROAD R/W

DEPARTMENT OF PUBLIC WORKS
 8-16-83
 CHIEF, BUREAU OF ENGINEERING
 OFFICE OF PLANNING & ZONING
 ACTING CHIEF, DIVISION OF LAND DEVELOPMENT DATA AND ZONING ADMINISTRATION

NOTE: FOR EXISTING HICKORY RIDGE ROAD PLAN, PROFILE AND STORM DRAINS, SEE CONSTRUCTION DRAWINGS FOR THE VILLAGE OF CLAY'S FOREST SECTION 3 AREA 1 (F-83-126).

REV. NO.	REVISION DESCRIPTION
7-8-83	As per DPN & Sediment Control Comments

COLUMBIA
 5th ELECTION DISTRICT
 HOWARD COUNTY, MARYLAND

OWNER AND DEVELOPER
 HOWARD RESEARCH AND DEVELOPMENT CORPORATION

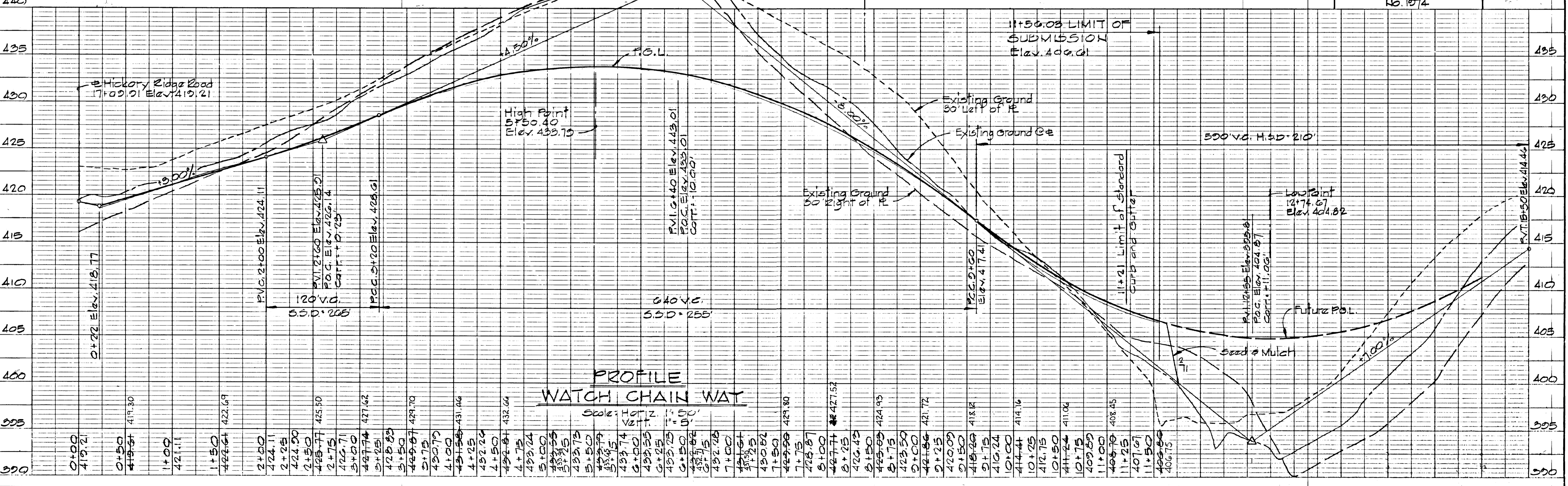
PROJECT AREA
 VILLAGE OF HICKORY RIDGE
 SECTION 3 AREA 2

PROJECT TITLE
 PLAN AND PROFILE
 WATCH CHAIN WAY
 STA. 0+00 TO STA. 11+56.05

SCALE: AS SHOWN DATE:

WHITMAN, REQUART AND ASSOCIATES
 ENGINEERS
 BALTIMORE, MARYLAND 21218

Kenneth A. McCord
 KENNETH A. MCCORD
 Registered Engineer
 No. 1974



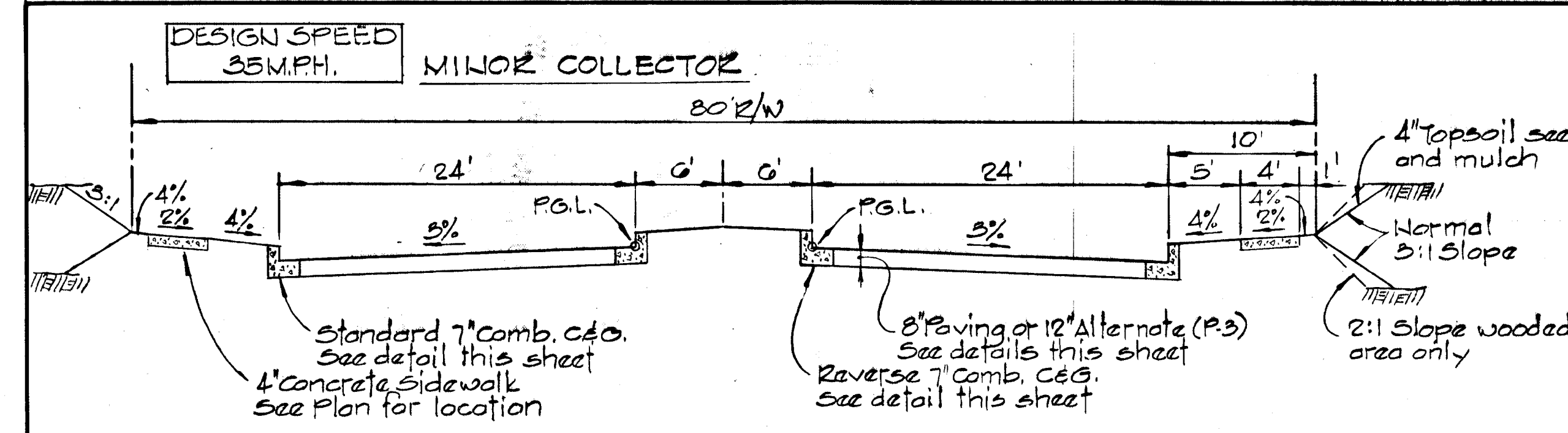
PROFILE
WATCH CHAIN WAY
Scale: 1" = 12'

PLAN

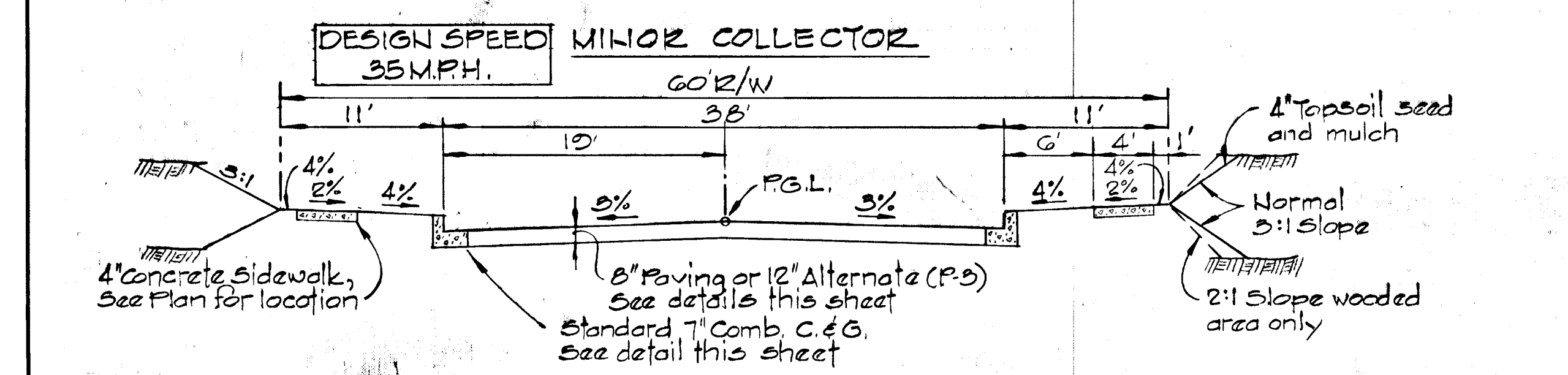
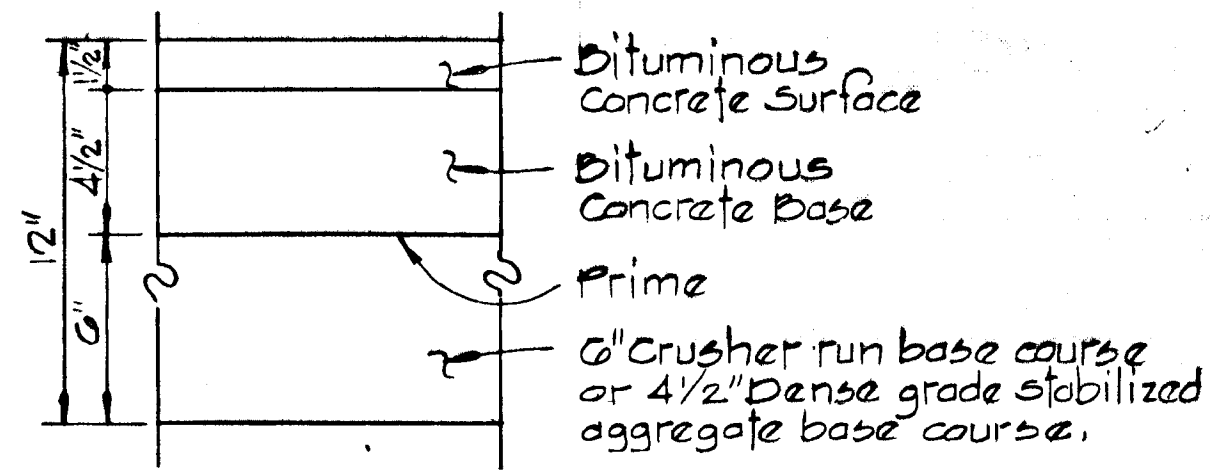
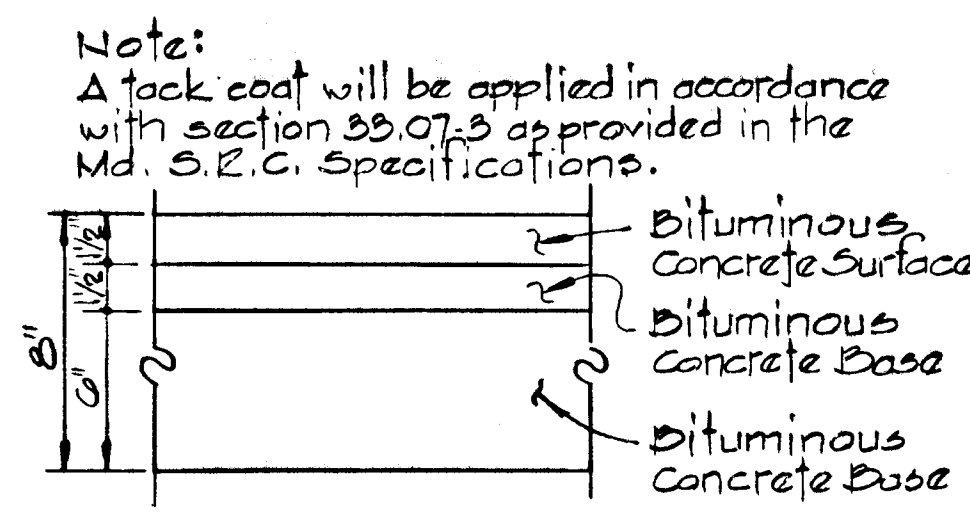
DATE	BY	REVISIONS
		NOTED
		ALIGNED CHECKED
		REVISIONS CHECKED

PROFILE

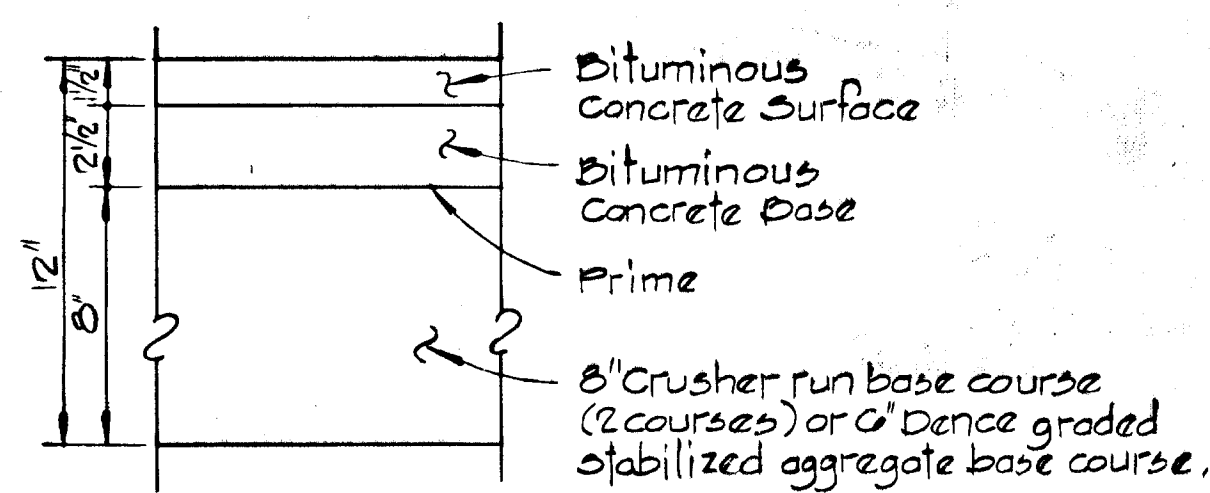
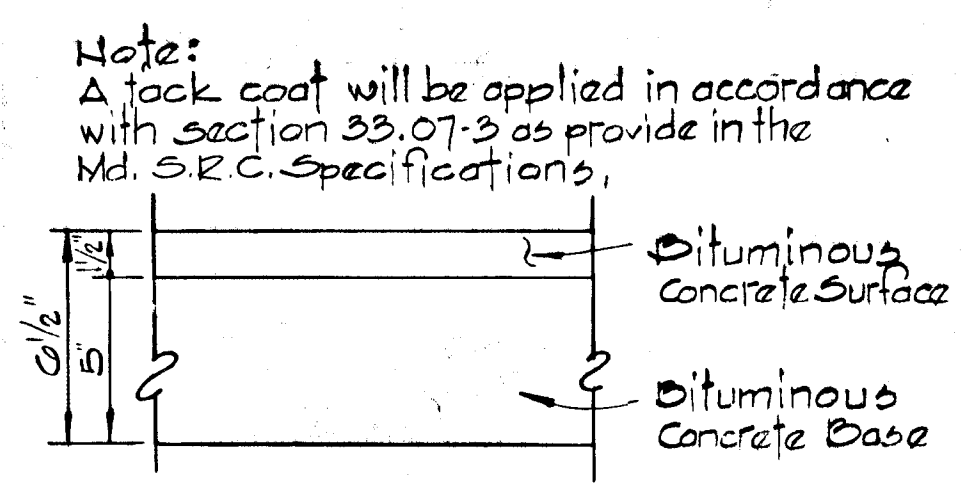
DATE	BY	REVISIONS
		NOTED
		GRADES CHECKED
		STRUCTURE NOTATIONS CHECKED



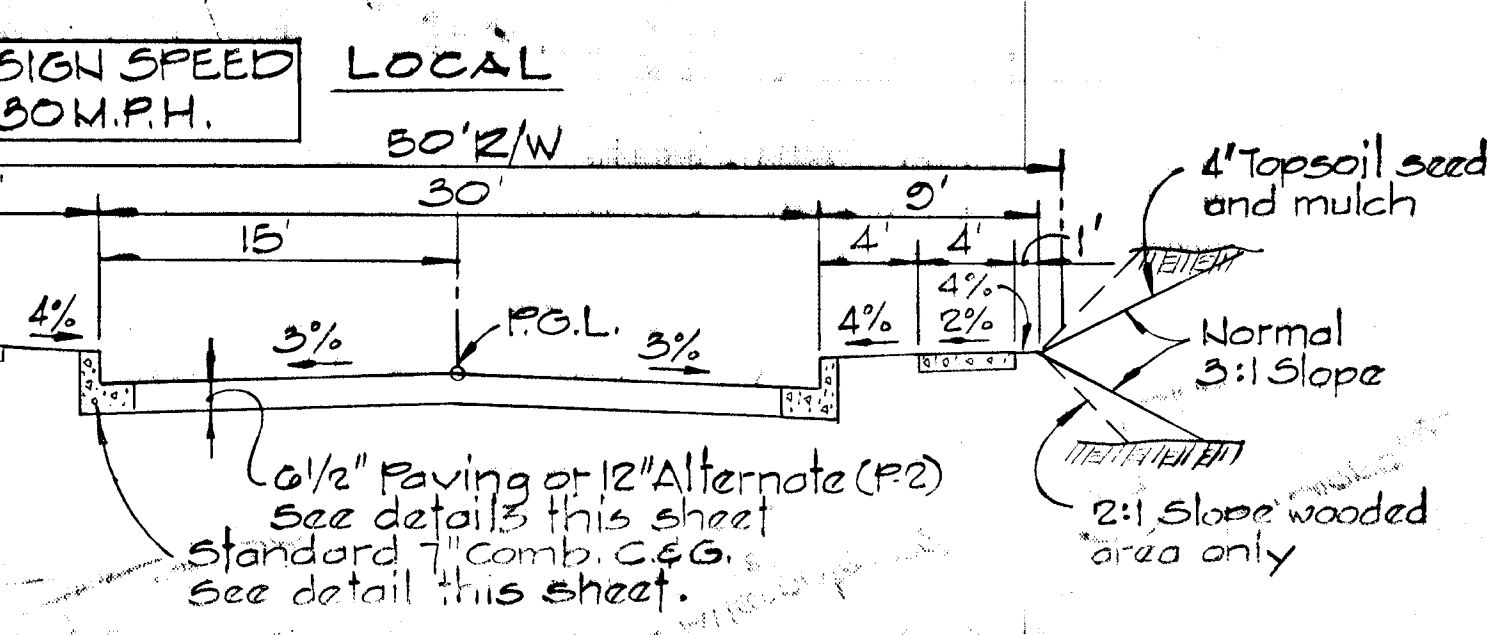
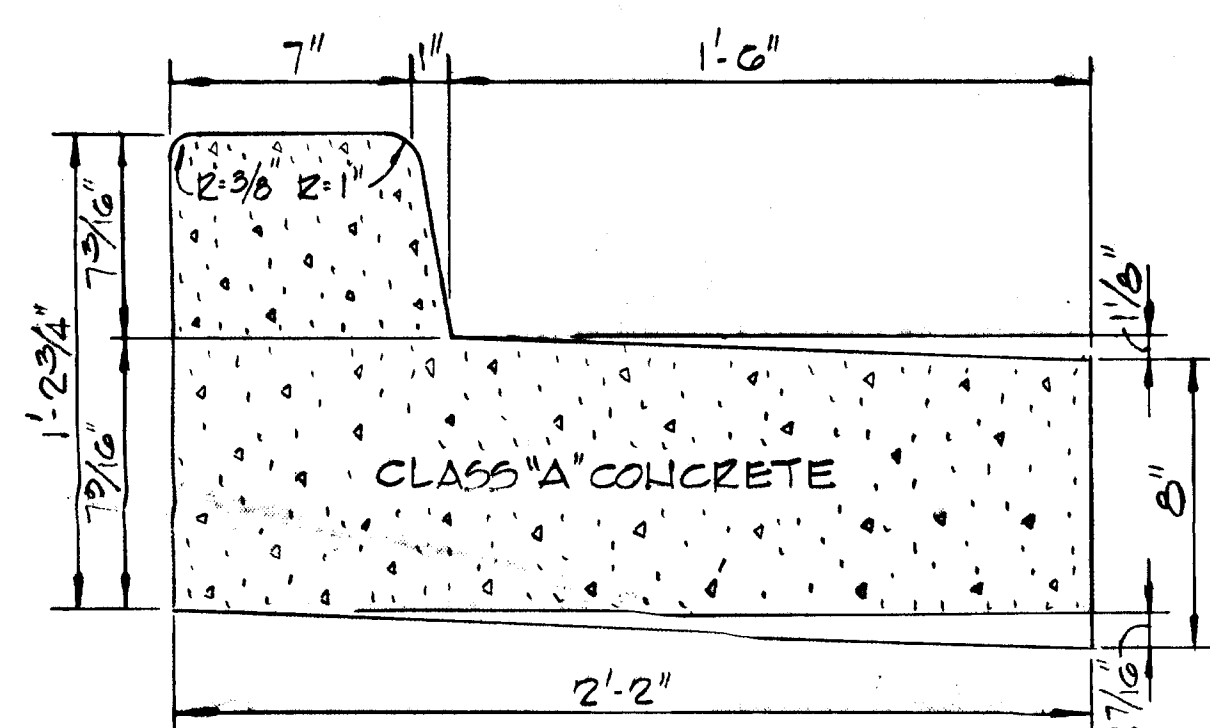
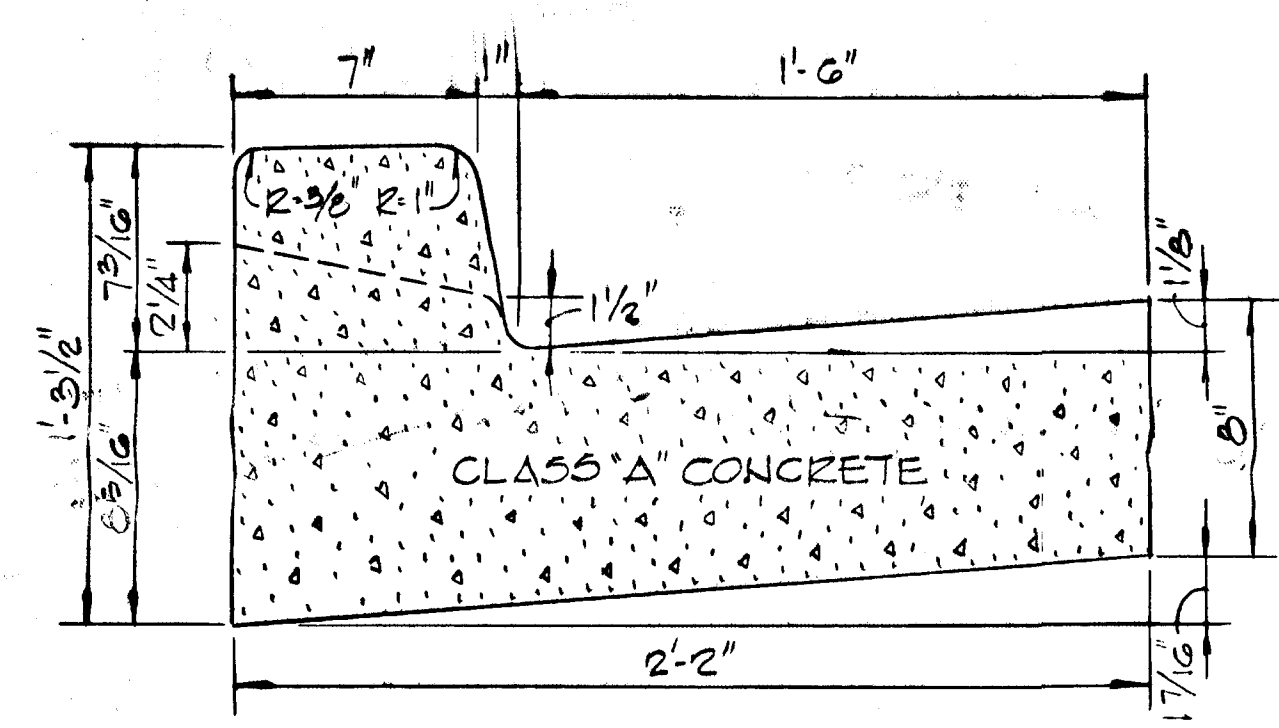
STA. 0+50 TO STA. 1+00



STA. 3+30 TO STA. 5+11

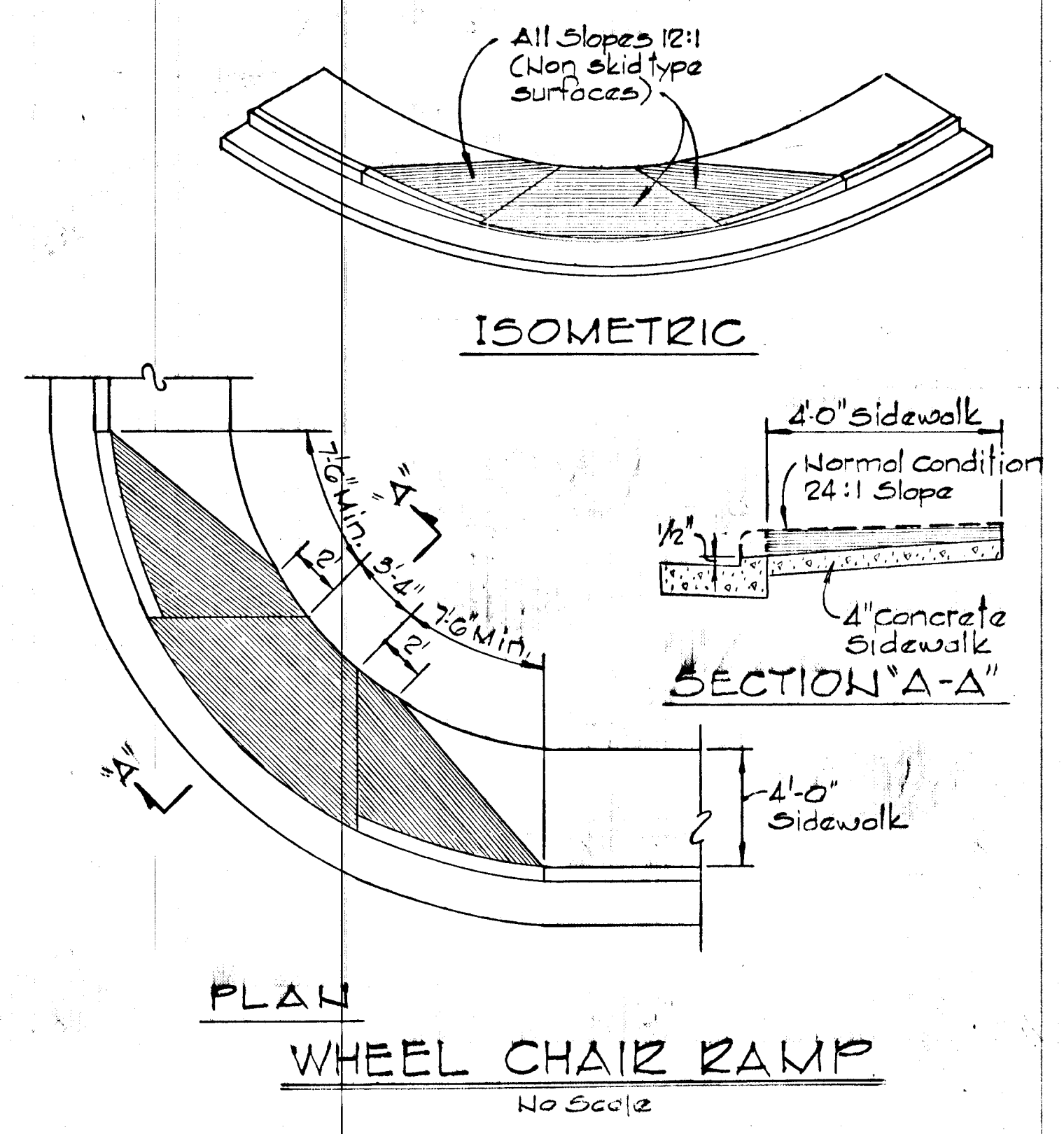


TYPICAL PAVING SECTIONS
 No Scale



STA. 10+38.35 TO STA. 11+20

TYPICAL SECTIONS WATCH CHAIN WAY
 No Scale



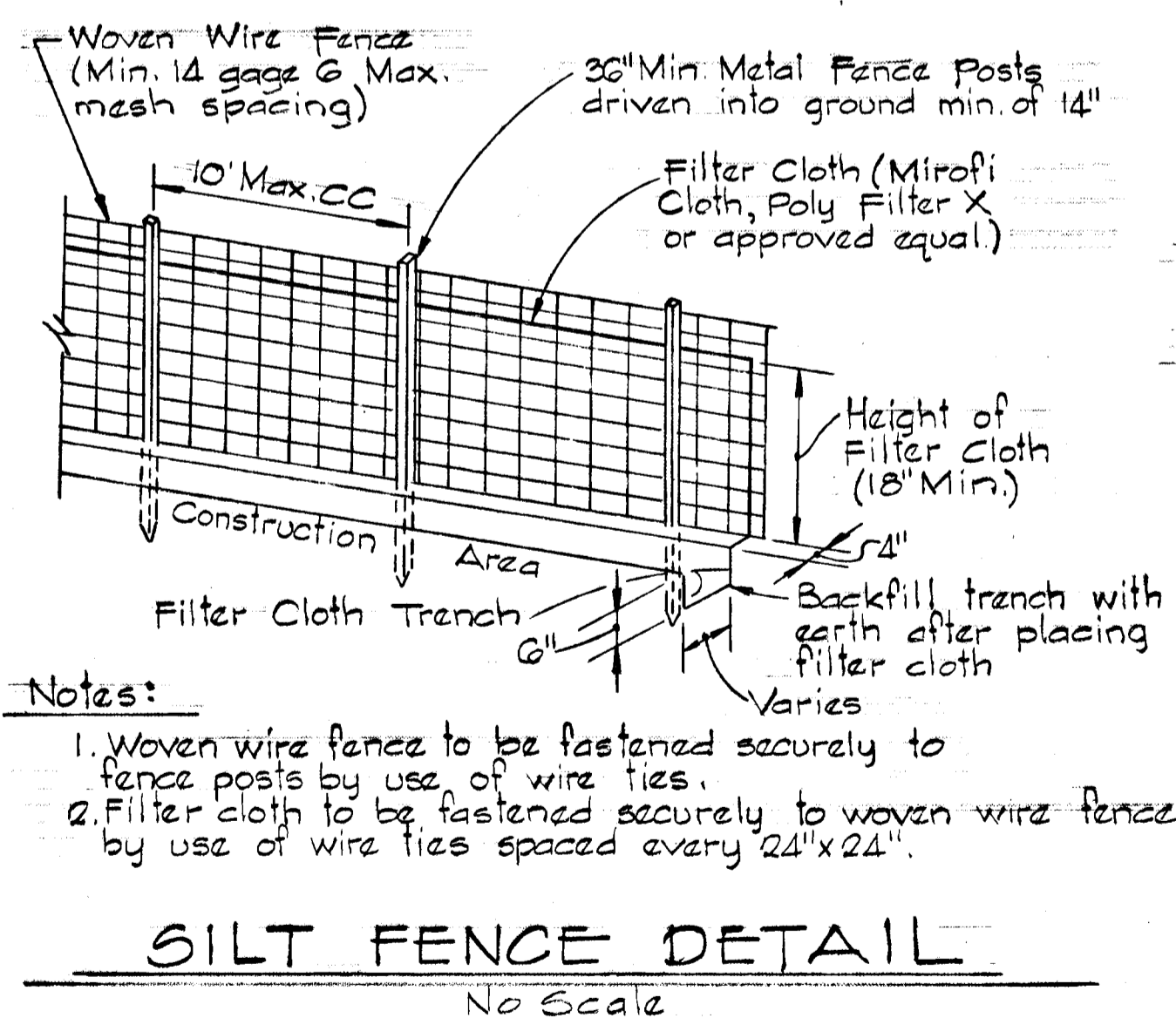
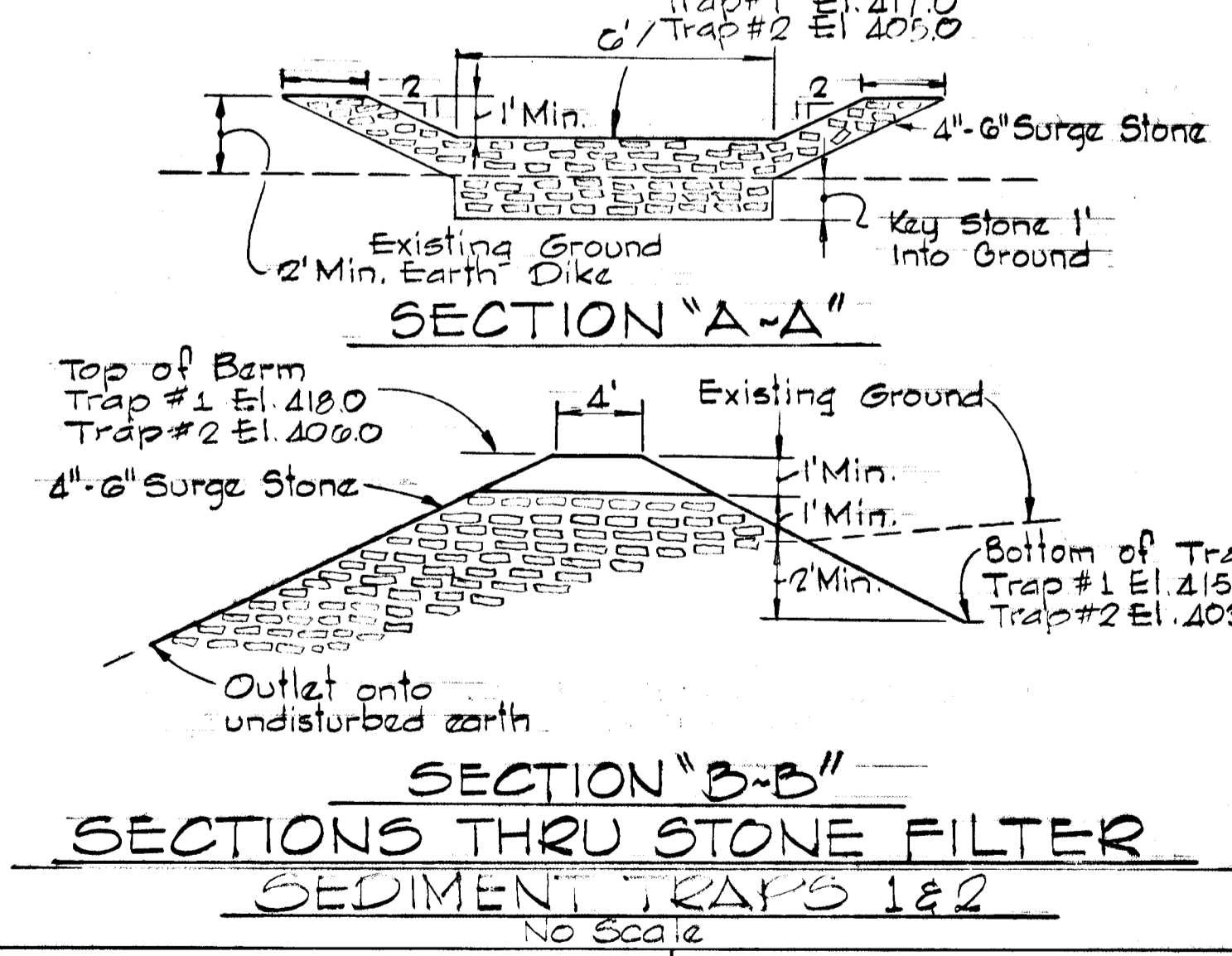
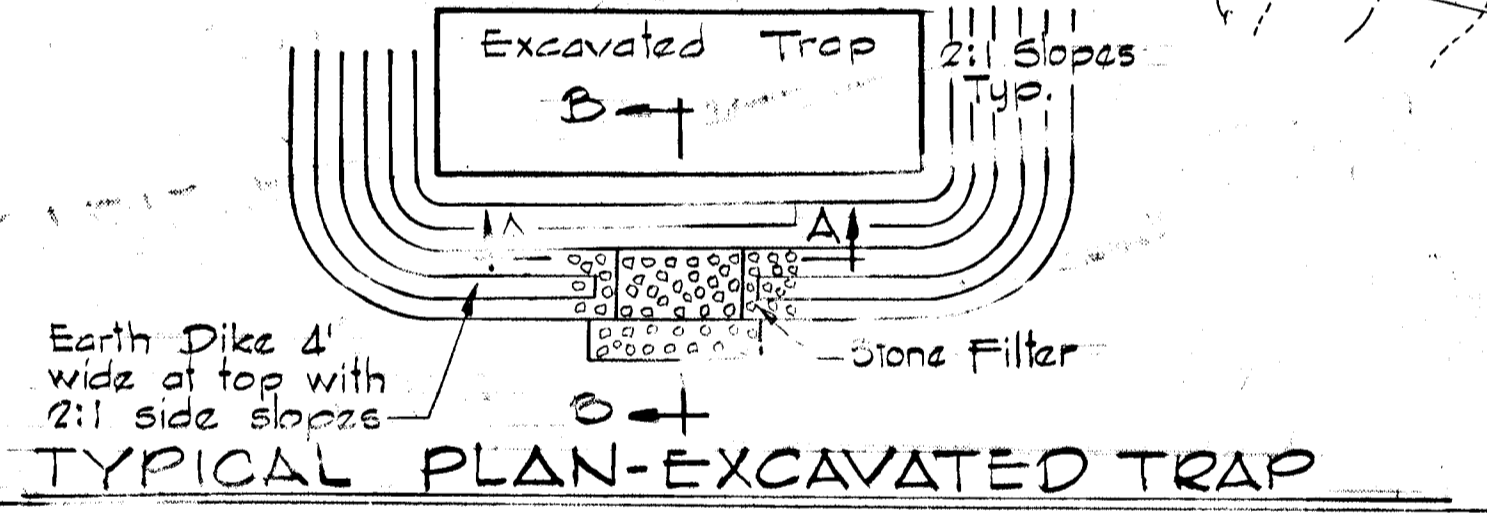
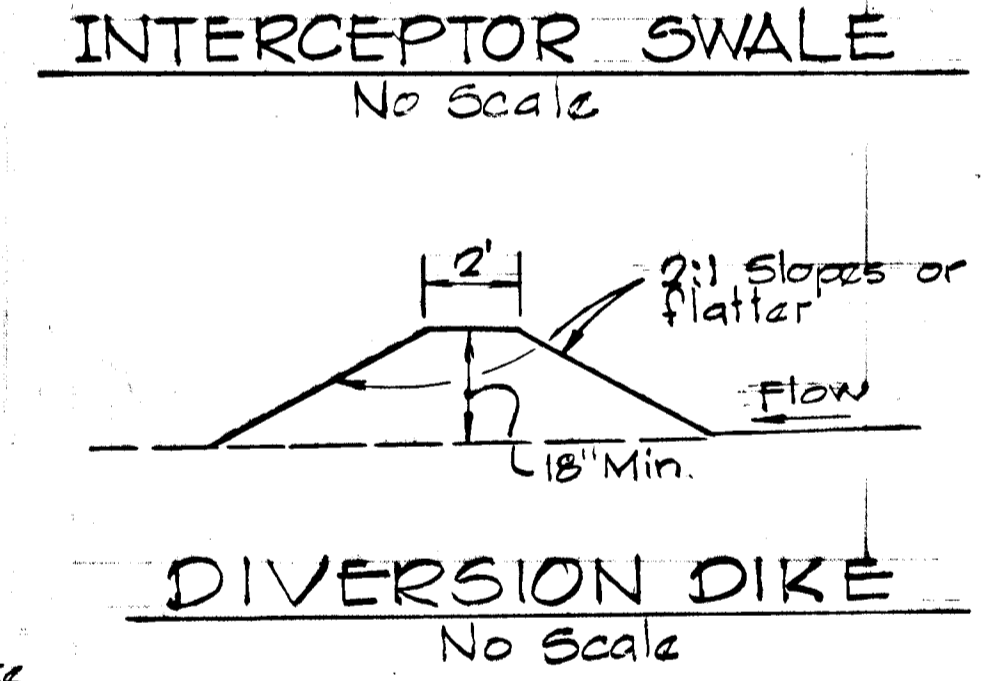
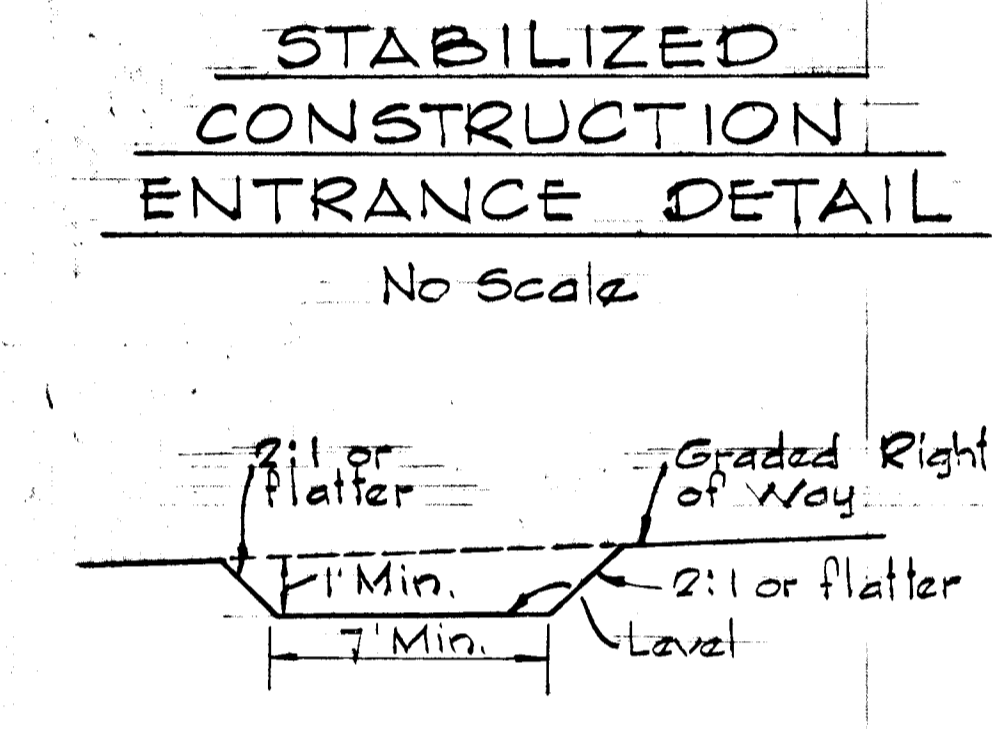
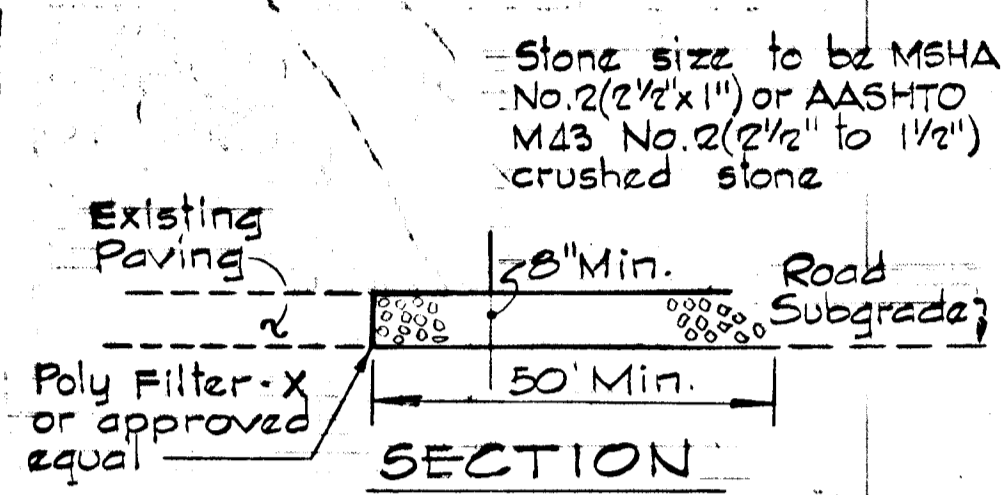
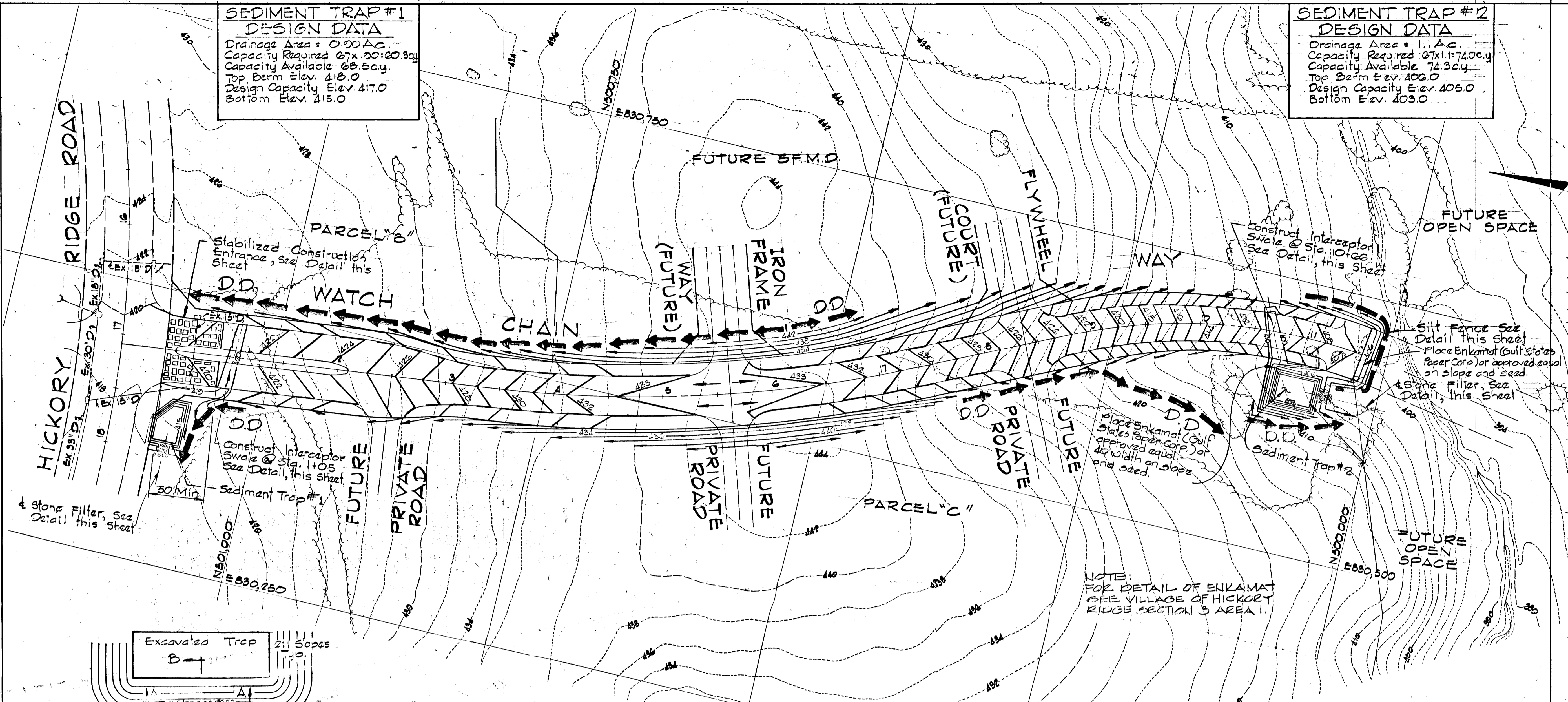
REV. DATE	REV. NO.	REVISION DESCRIPTION
7-8-83	1	As Per D.P.W. & Sediment Control Comments
COLUMBIA 5th ELECTION DISTRICT HOWARD COUNTY, MARYLAND		
OWNER AND DEVELOPER HOWARD RESEARCH AND DEVELOPMENT CORPORATION		
PROJECT AREA VILLAGE OF HICKORY RIDGE SECTION 3 AREA 2		
PROJECT TITLE ROADWAY DETAILS		
SCALE: AS SHOWN		DATE:
WHITMAN, REQUART AND ASSOCIATES ENGINEERS BALTIMORE, MARYLAND 21215		
Kenneth A. McCord KENNETH A. MCCORD Registered Engineer No. 1074		

#42

**SEDIMENT TRAP #1
DESIGN DATA**
 Drainage Area = 0.90 AC.
 Capacity Required 67x 50x 60.3 cu.
 Capacity Available 68.5 cu.
 Top Berm Elev. 418.0
 Design Capacity Elev. 417.0
 Bottom Elev. 415.0

**SEDIMENT TRAP #2
DESIGN DATA**
 Drainage Area = 1.1 AC.
 Capacity Required 67x 11.7400 y.
 Capacity Available 74.3 cu.
 Top Berm Elev. 406.0
 Design Capacity Elev. 405.0
 Bottom Elev. 403.0

DEPARTMENT OF PUBLIC WORKS
 CHIEF, BUREAU OF ENGINEERING
 OFFICE OF PLANNING & ZONING
 CHIEF, DIVISION OF LAND DEVELOPMENT AND ZONING ADMINISTRATION



SITE ANALYSIS
 TOTAL AREA = 2.0 ACRES
 AREA OF IMPERVIOUS = 1.2 ACRES
 AREA TO BE VEGETATED = 0.8 ACRES

PERMANENT SEEDING NOTES
 LIME: - 2 tons/acre agricultural ground limestone.
 FERTILIZER - 1000 lbs/acre (10-10-10)
 SEEDING - 100 lbs/acre of the following:
 20% Kentucky Blue Grass, 20% Merion Blue Grass, 55% Creeping Red Fescue, 5% Red Top.
 Mulch Required - Mulch area with straw at the rate of 75 lbs/1000² or 1.5 tons/acre. Anchor with asphalt at the rate of 480 gallons/acre. Stabilization of slopes steeper than 3:1 shall be planted with crownvetch at 15 lbs/acre or 0.34 lbs/1000² and Kentucky 31 Tall Fescue at 40 lbs/acre or 1 lb/1000².

SEQUENCE OF CONSTRUCTION
 1. Obtain Grading Permit.
 2. Construct construction entrance on Watch Chain Way.
 3. Clear and grub limits of construction.
 4. Construct sediment traps #1 and #2, diversion dikes and silt fence.
 5. Stabilize diversion dikes with temporary seeding, see specifications.
 6. Strip and rough grade limits of construction. Construct interceptor swale.
 7. Construct all utilities.
 8. Fine grade roads, construct curb and gutter, sidewalks and seed disturbed areas.
 9. Pave Road.
 10. Remove all sediment control facilities after grass is established in the contributing drainage areas. Stabilize Sediment Trap Removal Area; see Permanent Seeding Notes.

SEDIMENT CONTROL NOTES
 1. See "Sequence of Construction" this sheet.
 2. The sediment control measures shall be construction on these drawings.
 3. All temporary sediment control devices shall be seeded as specified in Notes 4 and 5. All other surfaces to be permanently seeded. See specifications this sheet.
 4. The temporary sediment control devices shall be hydroseeded as follows:
 a. Ground Limestone (50 lbs/1000²)
 b. Fertilizer 10-10-10 (25 lbs/1000²)
 c. Seed Italian Rye Grass (40 lbs/acre)
 5. Mulch with straw at the rate of 50 lbs/1000² or one ton/acre. Anchor with asphalt at the rate of 480 gallons/acre.
 6. Prior to starting any work the contractor shall notify Howard County Sediment Control Division at least 24 hours in advance of beginning.

Rev. No.	Rev. Date	Revision Description
1	7-8-83	As Per DPW & Sediment Control Comments

COLUMBIA 5th ELECTION DISTRICT
 HOWARD COUNTY, MARYLAND
 OWNER AND DEVELOPER
 HOWARD RESEARCH AND DEVELOPMENT CORPORATION
 PROJECT AREA
 VILLAGE OF HICKORY RIDGE SECTION 3 AREA 2
 PROJECT TITLE
 SEDIMENT CONTROL

This development plan is approved for soil erosion and sediment control by the Howard Soil Conservation District.
 Approved: *[Signature]* 8-17-83
 Howard S.C.D. Date

Reviewed for Howard S.C.D. And meets technical requirements.
[Signature] Date 8-17-83
 U.S. Soil Conservation Service

CERTIFICATION BY THE ENGINEER
 "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] 5/13/83
 KENNETH A. MCCORD PE No. 1074 Date

CERTIFICATION BY THE DEVELOPER
 "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] 5/13/83
 WALTER WOODFORD Date

RESPONSIBLE PERSONNEL CERTIFICATION
 "I hereby certify that any responsible personnel involved in the construction project will have a certificate of attendance at a Department of Natural Resources approved training program for the control of sediment and erosion before beginning the project."
[Signature] 5/13/83
 WALTER WOODFORD Date

SCALE: As Shown DATE: 5/10/83
 WHITMAN, REARDT AND ASSOCIATES ENGINEERS
 2315 ST. PAUL STREET BALTIMORE, MARYLAND 21218
[Signature]
 KENNETH A. MCCORD Registered Engineer No. 1074