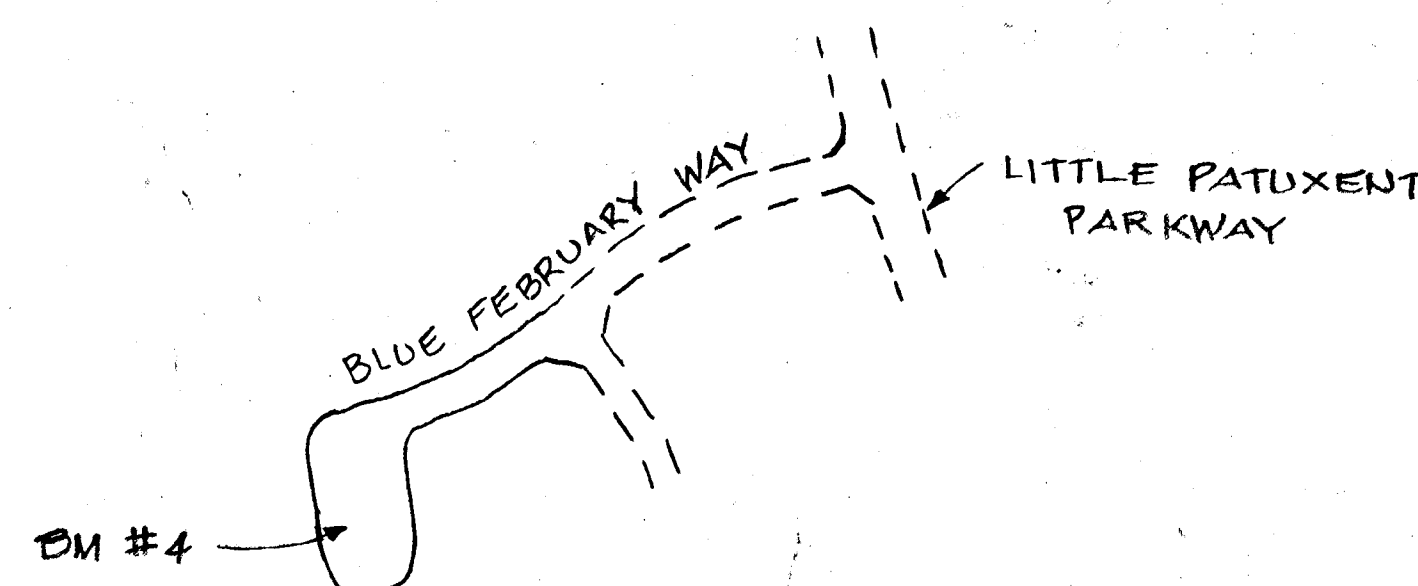


"As-Built" Elevations as of May 6, 1986

Kenneth A. McCord R.E. #1974

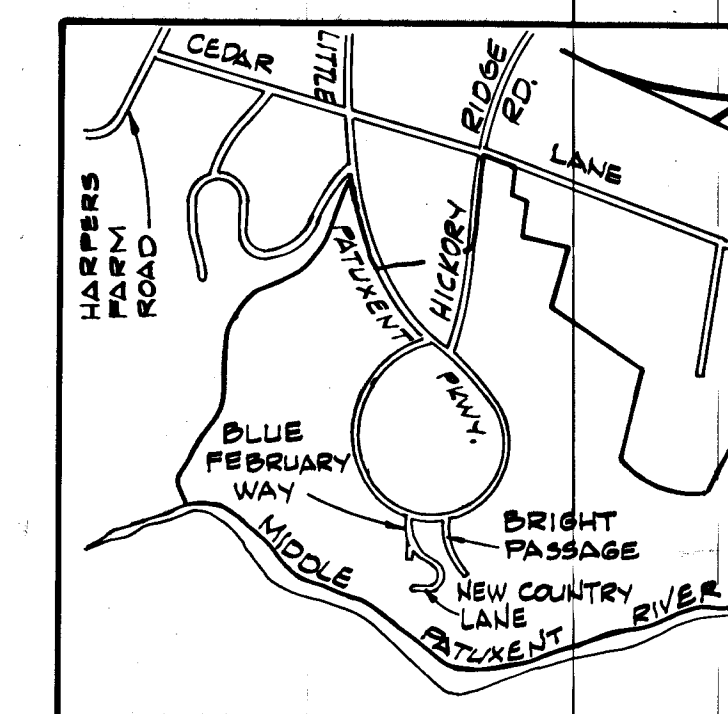


PLAN
 No Scale

COLUMBIA

HOWARD COUNTY, MARYLAND
 5TH ELECTION DISTRICT

ROAD CONSTRUCTION PLANS
 VILLAGE OF HICKORY RIDGE
 SECTION 3 AREA G
 LOTS I-110 THRU I-166



VICINITY MAP
 Scale: 1" = 2,000'

BENCH MARK
 B.M. Hickory # 54 Elev. 365.538
 R.R. Spike in Base of 30' Poplar
 155' Left of & Station 85+65
 Little Patuxent Parkway

BENCH MARK

BM #4 - Box cut in front corner of inlet slab
 14' right of & Sta. 13+23 Blue February
 Way - Elev. 351.99

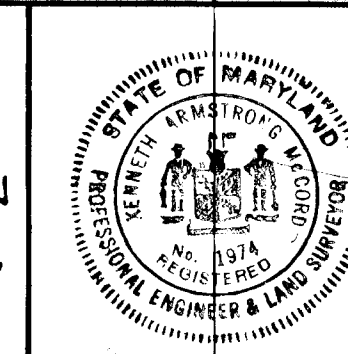
SHEET INDEX	
NO.	DESCRIPTION
1.	TITLE SHEET
2.	PLAN AND PROFILE BLUE FEBRUARY WAY 0+85.00 TO 17+28.62
3.	DRAINAGE AREA MAP AND STORM DRAIN PROFILE
4.	STANDARD DETAILS
5.	SEDIMENT CONTROL PLAN
6.	SEDIMENT CONTROL PLAN

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.
- Local street is designed for 30 mph speed and cul-de-sac street is designed for 30 mph speed.
- 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 for Construction.
- Any damage to public rights-of-ways or paving will be corrected at the developer's 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 292-2456.
- Street Trees (30 Total)
 The location, type and number of trees shown on this plan 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 16.131 of the Howard County Subdivision Regulations, as approved by the office of Planning and Zoning.

Rev. Date	Rev. No.	Revision Description
5/14/84	1	As Per D.P.W. and S.C.S. Comments

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



WHITMAN, REQUARDT AND ASSOCIATES ENGINEERS
 2315 ST. PAUL STREET
 BALTIMORE, MARYLAND 21218
 Kenneth A. McCord
 KENNETH A. MCCORD
 Registered Engineer
 No. 1974

5/6/86

AS BUILT

F-85-01

6/26/84

SHEET 1 OF 6

THE HOWARD RESEARCH AND DEVELOPMENT CORPORATION
LIBER 463, FOLIO 196

"As-Built" Elevations as of May 6, 1984

Kenneth A. McCord P.E. # 1974

STORM DRAIN STRUCTURE SCHEDULE

NO.	TYPE	TOP EL.	INV. IN	INV. OUT	LOCATION
I-8	A 5" Inlet (width 25) SD 4.01	361.46	357.02	355.81	Inlet 15.92' Right of Sta. 10+84
I-9	A 5" Inlet (width 25) SD 4.01	363.43	—	358.82	Inlet 15.92' Right of Sta. 10+90

* Inlet with deflectors

LEGEND

- Publicly Maintained Roadway
- Sidewalk
- Sidewalk (to be built under developers agreement)
- Street Trees (30')

NOTE:
PAVING WIDTH = 28'
LENGTH OF ROAD = 738'
0 SEWER MHS IN ROAD R/W

DEPARTMENT OF PUBLIC WORKS

9-21-84

CHIEF, BUREAU OF ENGINEERING

OFFICE OF PLANNING & ZONING

9-18-84

CHIEF, DIVISION OF LAND DEVELOPMENT AND ZONING ADMINISTRATION

NOTE: FOR EXISTING BLUE FEBRUARY WAY PLAN AND PROFILE SEE VILLAGE OF HICKORY RIDGE SECTION 3 AREA G (F84-52 & F84-140) CONSTRUCTION DRAWINGS.

DATE	REV. NO.	REVISION DESCRIPTION
8/11/84	1	As Per DPN and S.C.S. Comments

COLUMBIA
5th ELECTION DISTRICT
HOWARD COUNTY, MARYLAND

OWNER AND DEVELOPER
HOWARD RESEARCH AND DEVELOPMENT CORPORATION

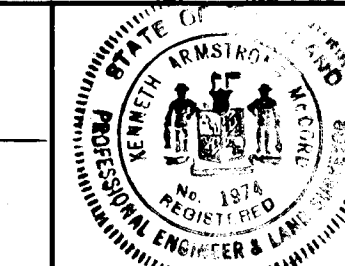
PROJECT AREA
VILLAGE OF HICKORY RIDGE
SECTION 3 AREA G
LOTS 110 THRU 166

PROJECT TITLE
PLAN AND PROFILE
BLUE FEBRUARY WAY
STA. 9+85.09 TO STA. 17+22.02

SCALE: AS SHOWN DATE:

WHITMAN, REQUARDT AND ASSOCIATES
ENGINEERS
BALTIMORE, MARYLAND 21218

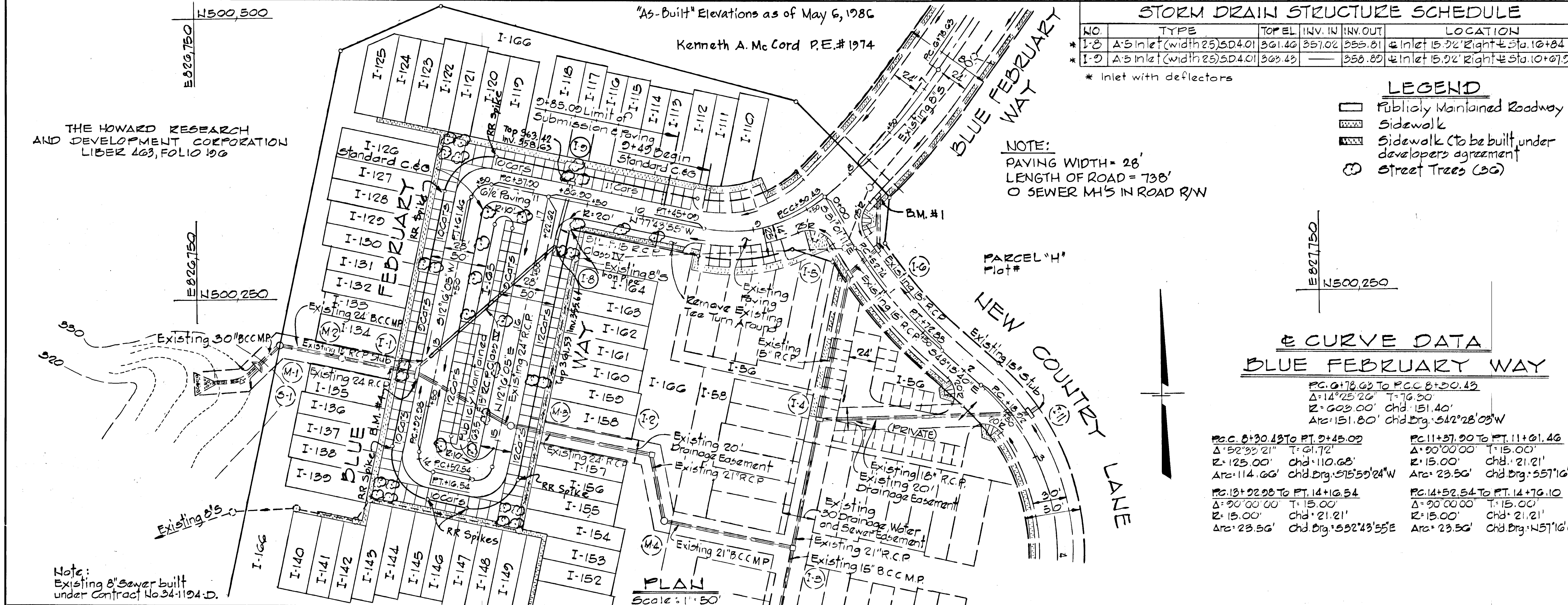
Kenneth A. McCord
Registered Engineer
No. 1974



AS-BUILT SURVEY CERTIFIED BY
KENNETH A. MCCORD REG. P.E. NO. 1974
ON MARCH 19, 1984

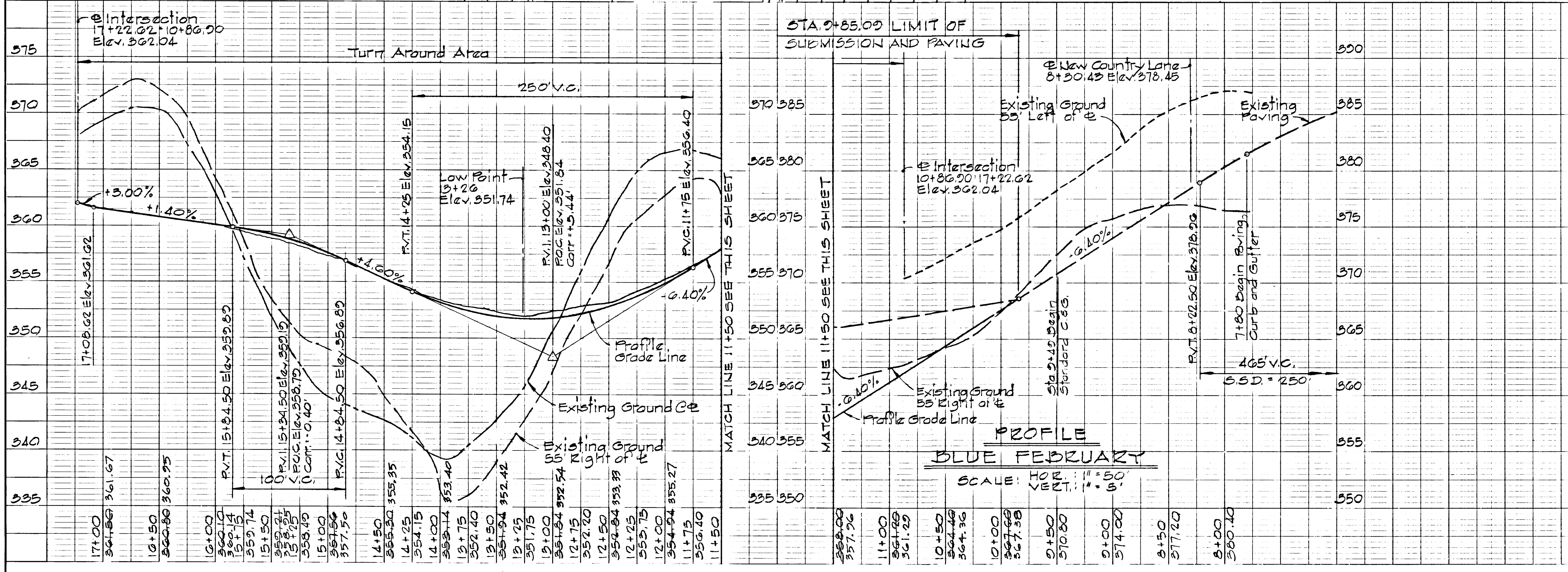
PLAN	DATE	BY

PROFILE	DATE	BY



E CURVE DATA
BLUE FEBRUARY WAY

PC: 9+78.02 TO PCC: 8+30.43 Δ: 14°25'20" T: 76.30 R: 623.00' chd: 151.40' Arc: 151.80' chd: 512°28'05"W	PC: 11+27.90 TO PT: 11+01.46 Δ: 20°00'00" T: 15.00' R: 15.00' chd: 21.21' Arc: 23.56' chd: 557°16'05"E
PC: 13+02.98 TO PT: 14+16.54 Δ: 20°00'00" T: 15.00' R: 15.00' chd: 21.21' Arc: 23.56' chd: 552°43'55"E	PC: 14+52.54 TO PT: 14+76.10 Δ: 20°00'00" T: 15.00' R: 15.00' chd: 21.21' Arc: 23.56' chd: 157°16'05"E



N500,500

N500,250

N500,000

N499,750

N499,500

E826,750

E827,000

E827,250

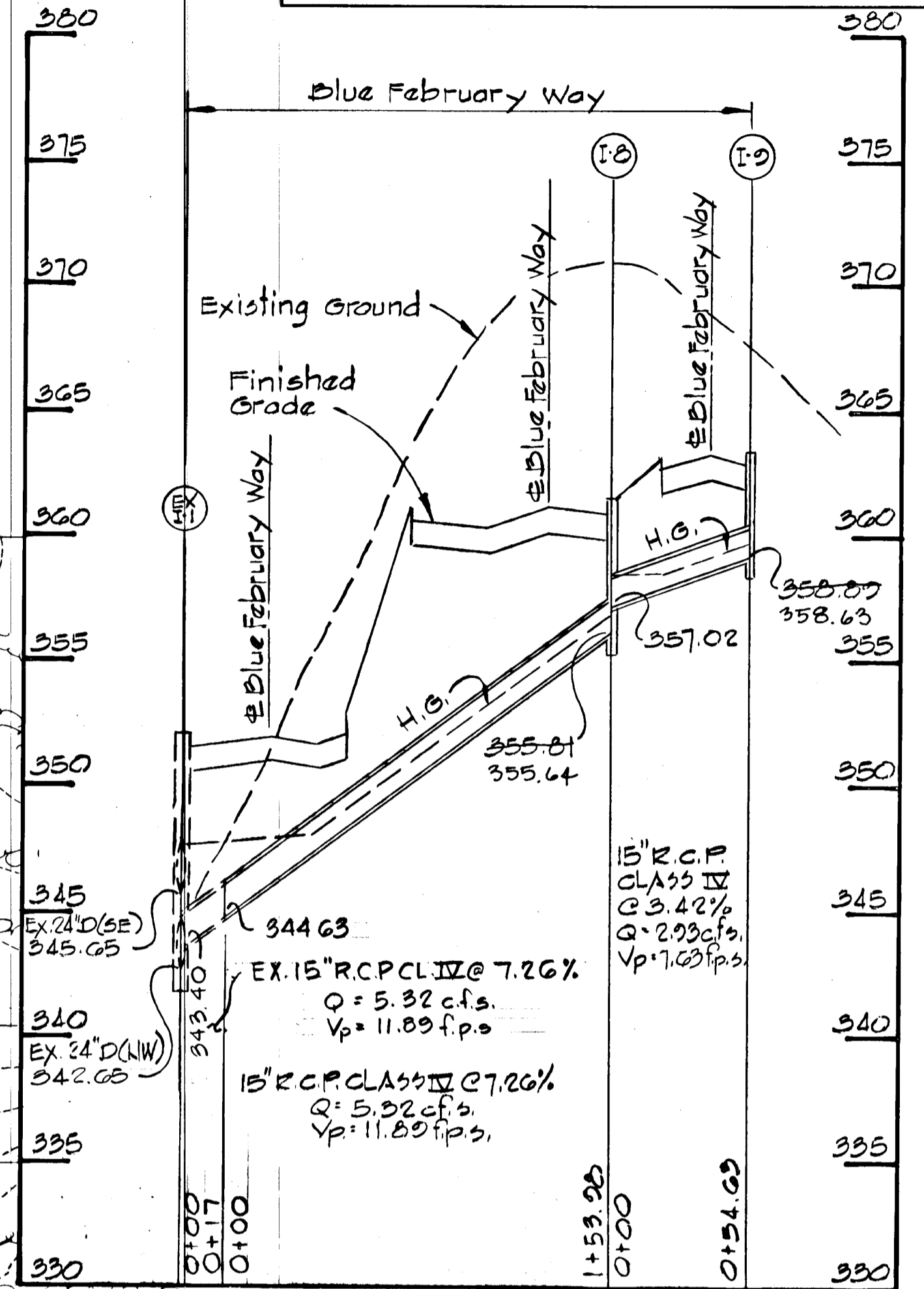
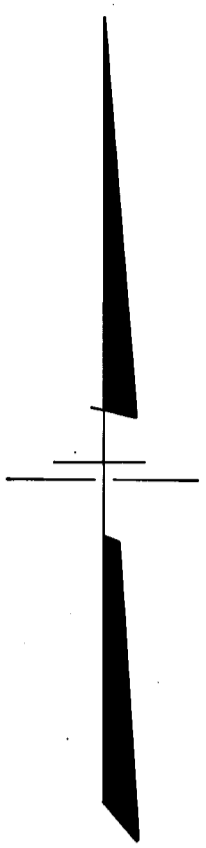
E827,500

E827,250

E827,500

"As-Built" Elevations as of May 6, 1986
Kenneth A. McCord P.E. #1074

DEPARTMENT OF PUBLIC WORKS
As-Built & Profile 9-24-84
CHIEF, BUREAU OF ENGINEERING DATE
OFFICE OF PLANNING & ZONING
John W. Mordeman 9-18-81
CHIEF, DIVISION OF LAND DEVELOPMENT DATE
AND ZONING ADMINISTRATION



PROFILE
SCALE: HORZ: 1" = 50'
VERT: 1" = 5'

Note:
Type of bedding used for storm drain pipes shall be Class C shaped subgrade. If rock is encountered the trench invert should be overexcavated 6 inches and the overexcavation of trenches and the overexcavation of trenches refilled with granular material.

AS-BUILT SURVEY CERTIFIED BY
KENNETH A. MCCORD P.E. NO. 1074
ON MARCH 19, 1984

THE HOWARD RESEARCH
AND DEVELOPMENT CORPORATION
LIBER 463, FOLIO 106

DRAINAGE AREA MAP
SCALE 1" = 50'

REV DATE	REV NO	AS PER D.P.W. and S.C.S. COMMENTS	REVISION DESCRIPTION
8/14/84	1	As Per D.P.W. and S.C.S. Comments	

COLUMBIA
5TH ELECTION DISTRICT
HOWARD COUNTY, MARYLAND

OWNER AND DEVELOPER
HOWARD RESEARCH AND DEVELOPMENT CORPORATION

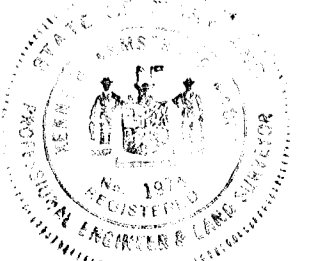
PROJECT AREA
VILLAGE OF HICKORY RIDGE
SECTION 3 AREA G
LOTS 110 THROUGH 126

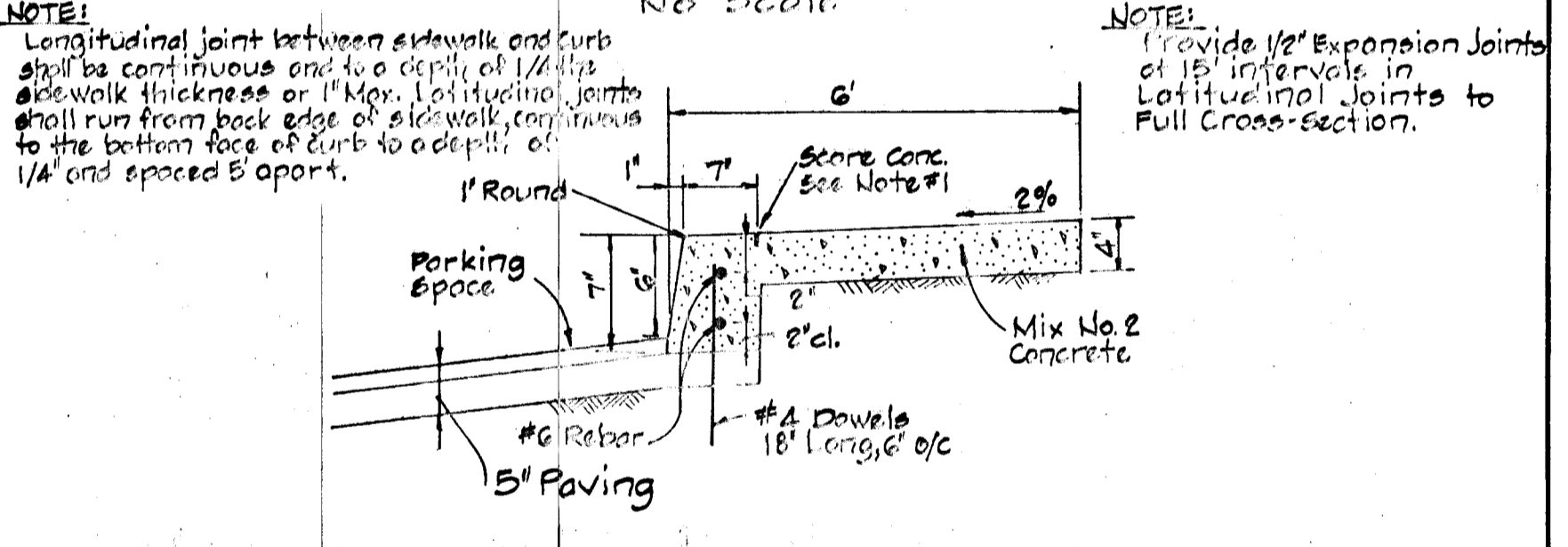
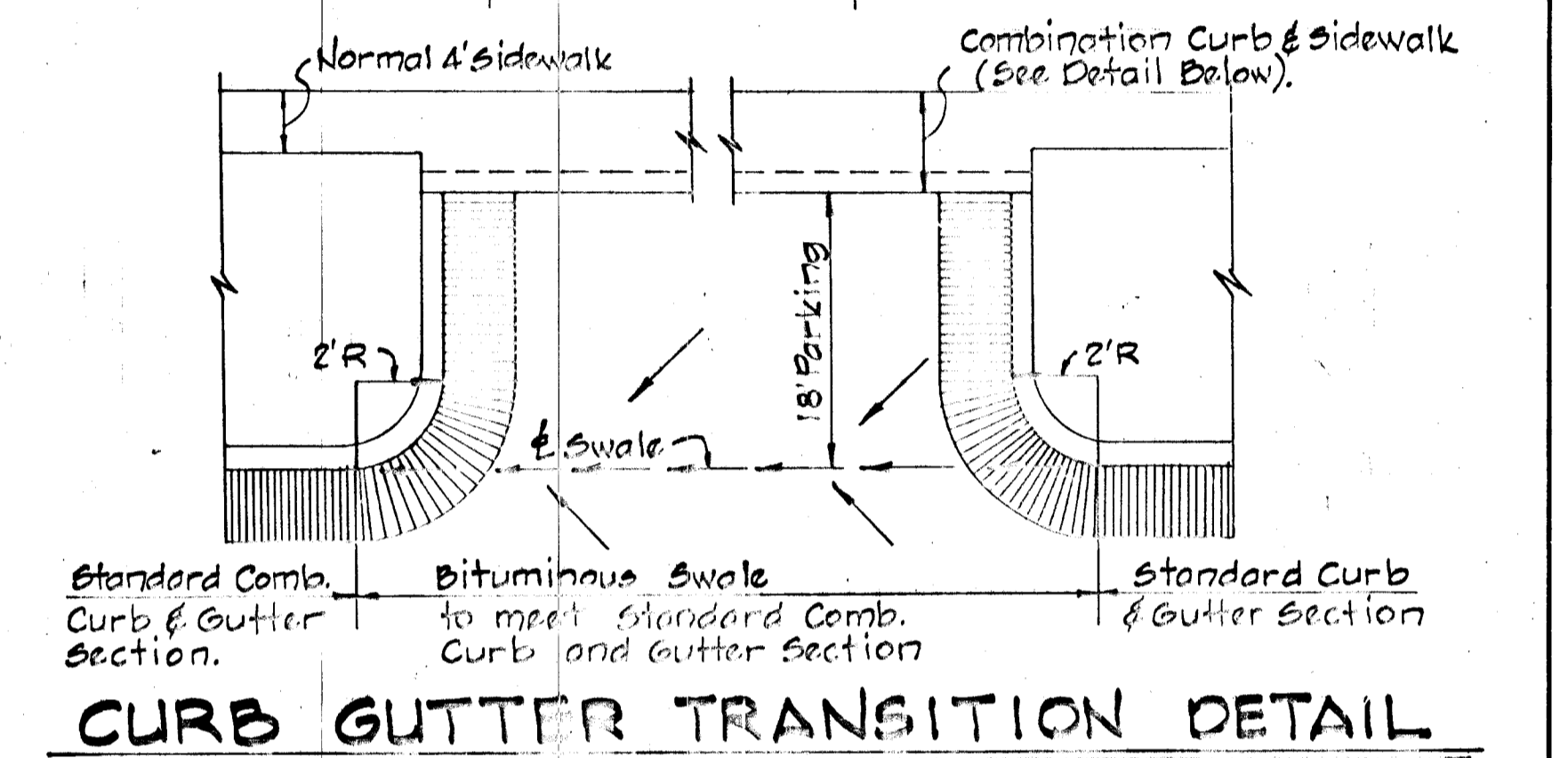
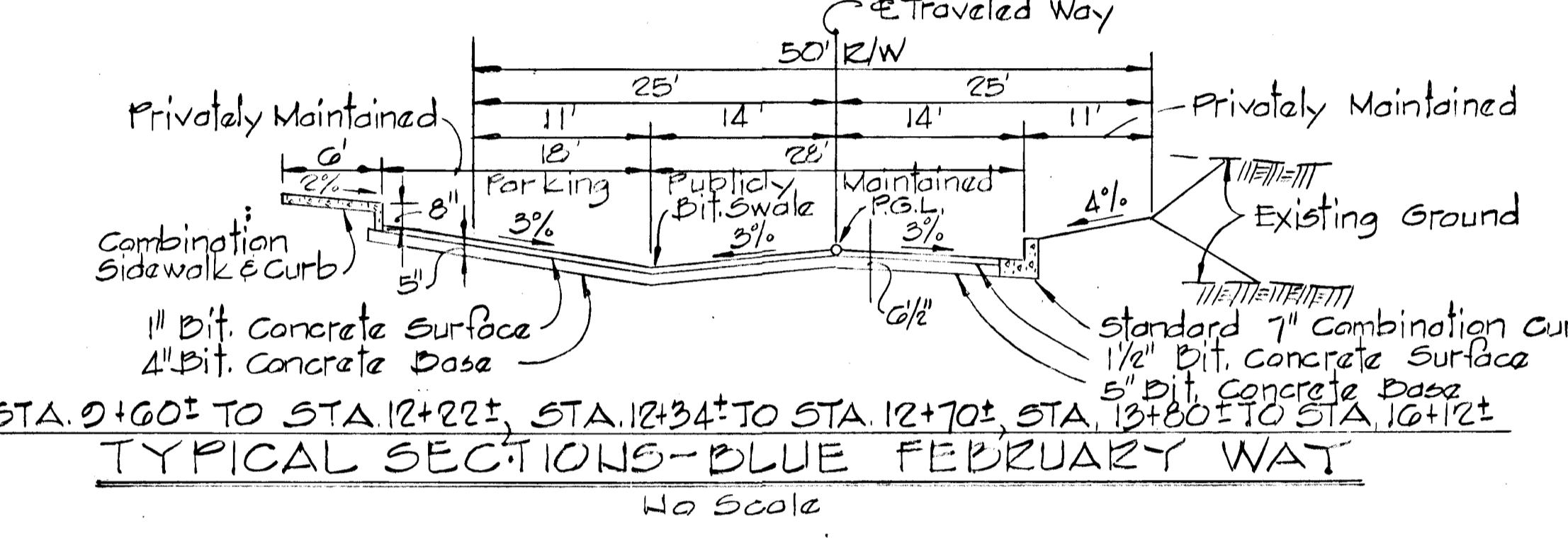
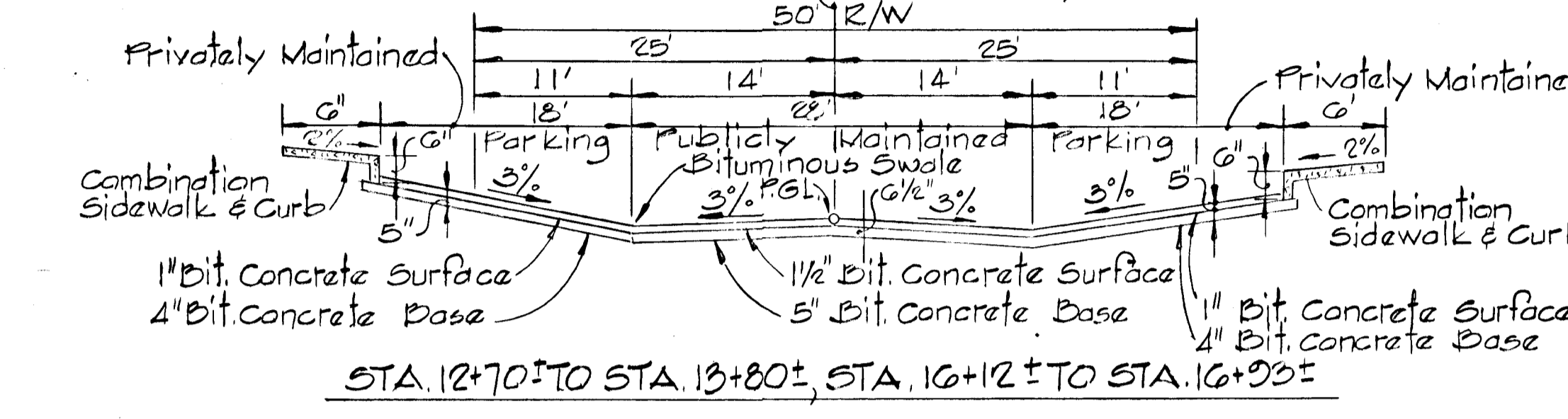
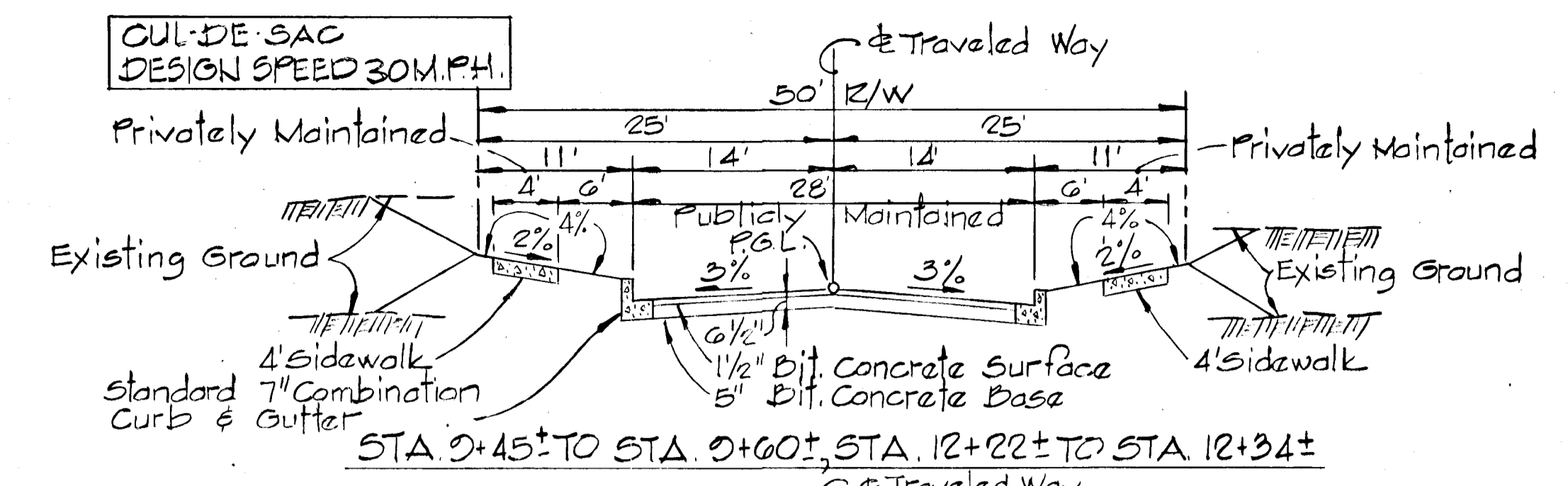
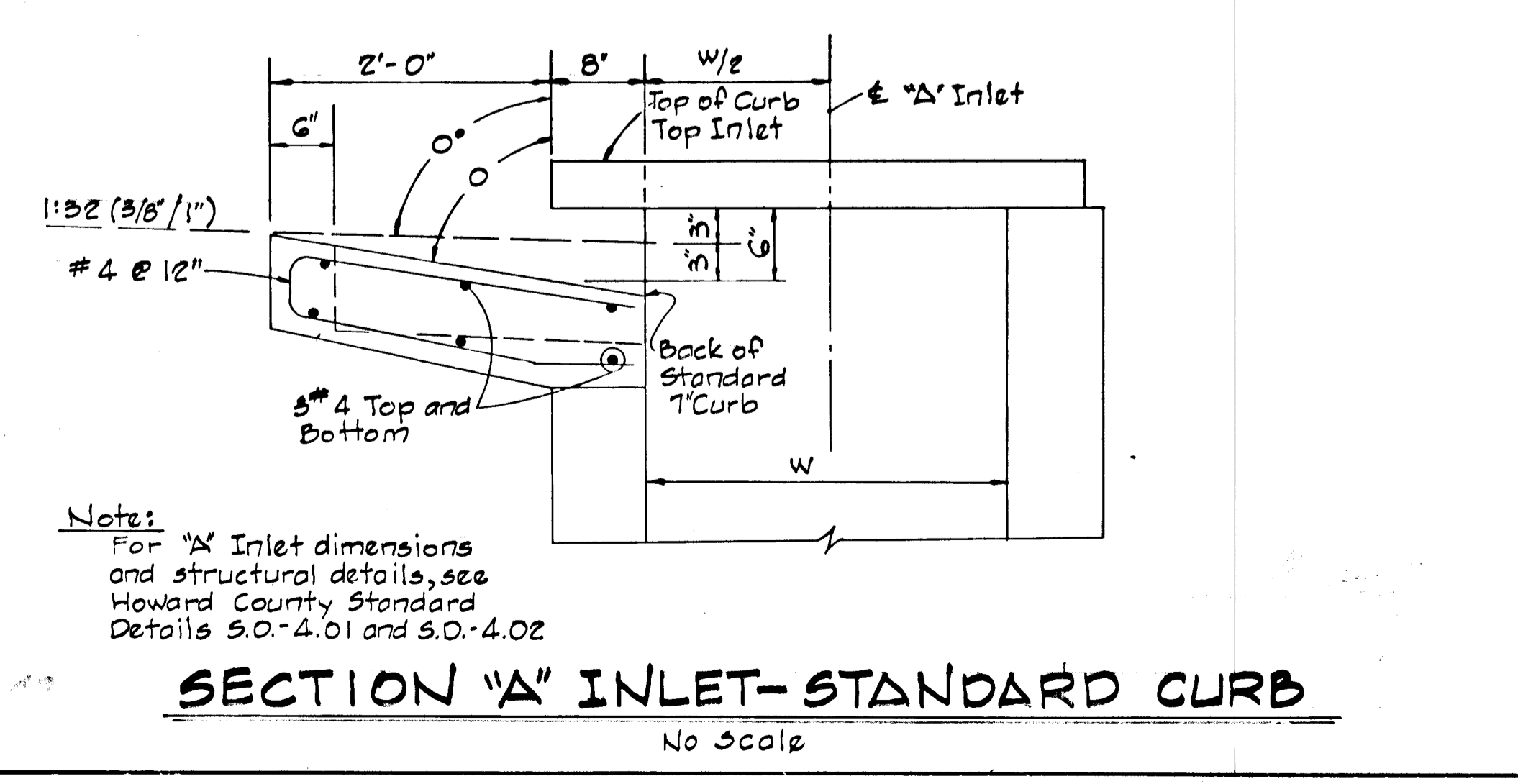
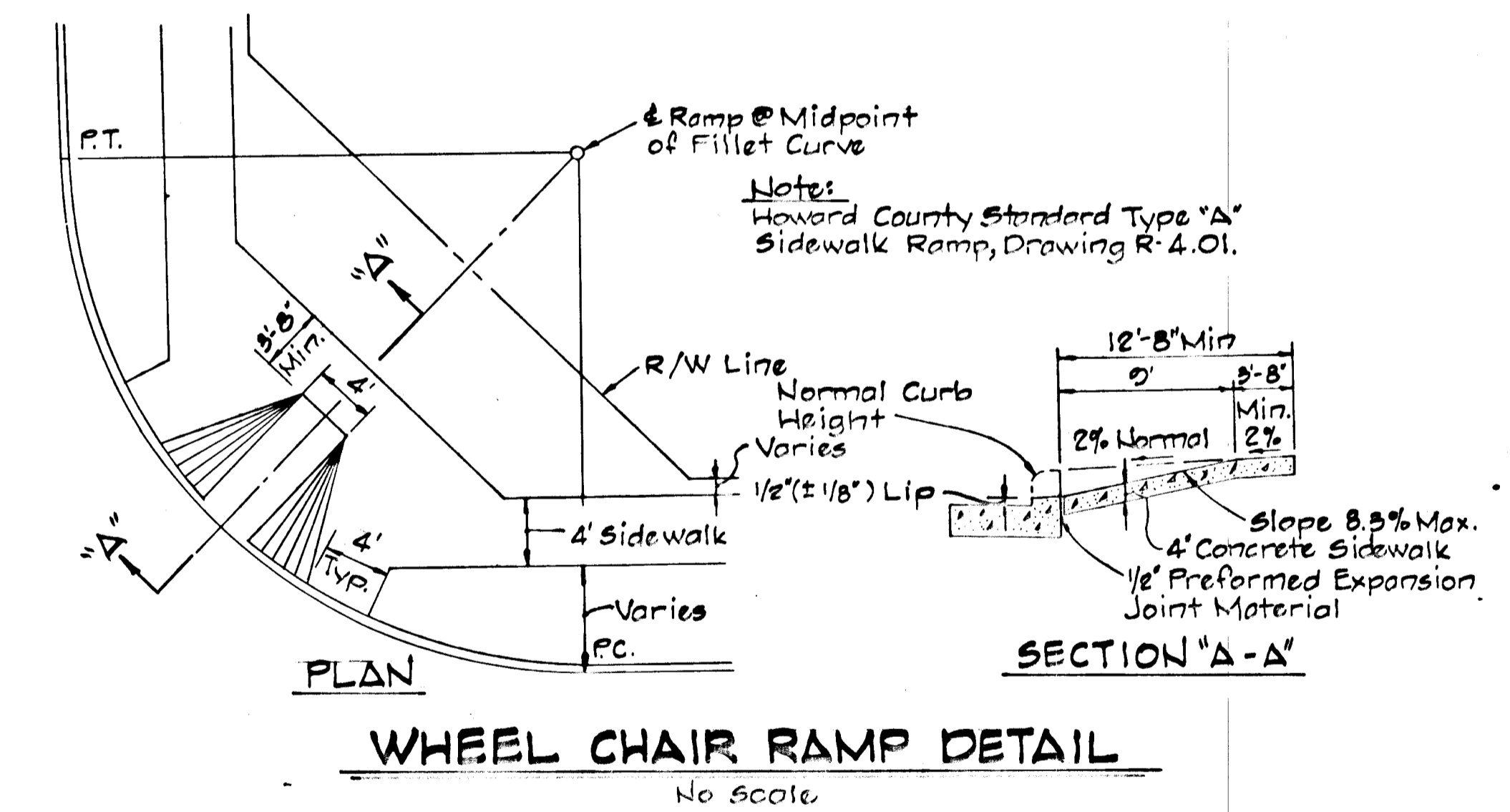
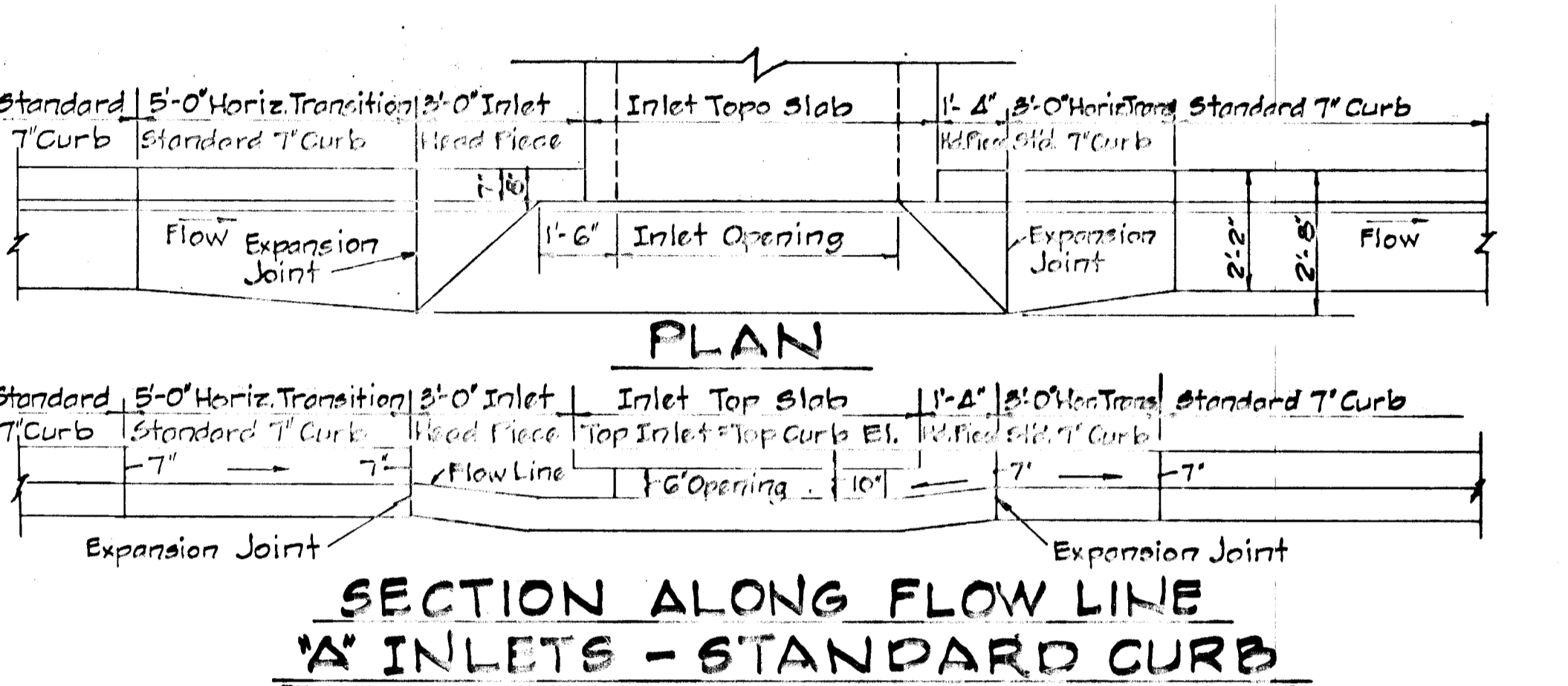
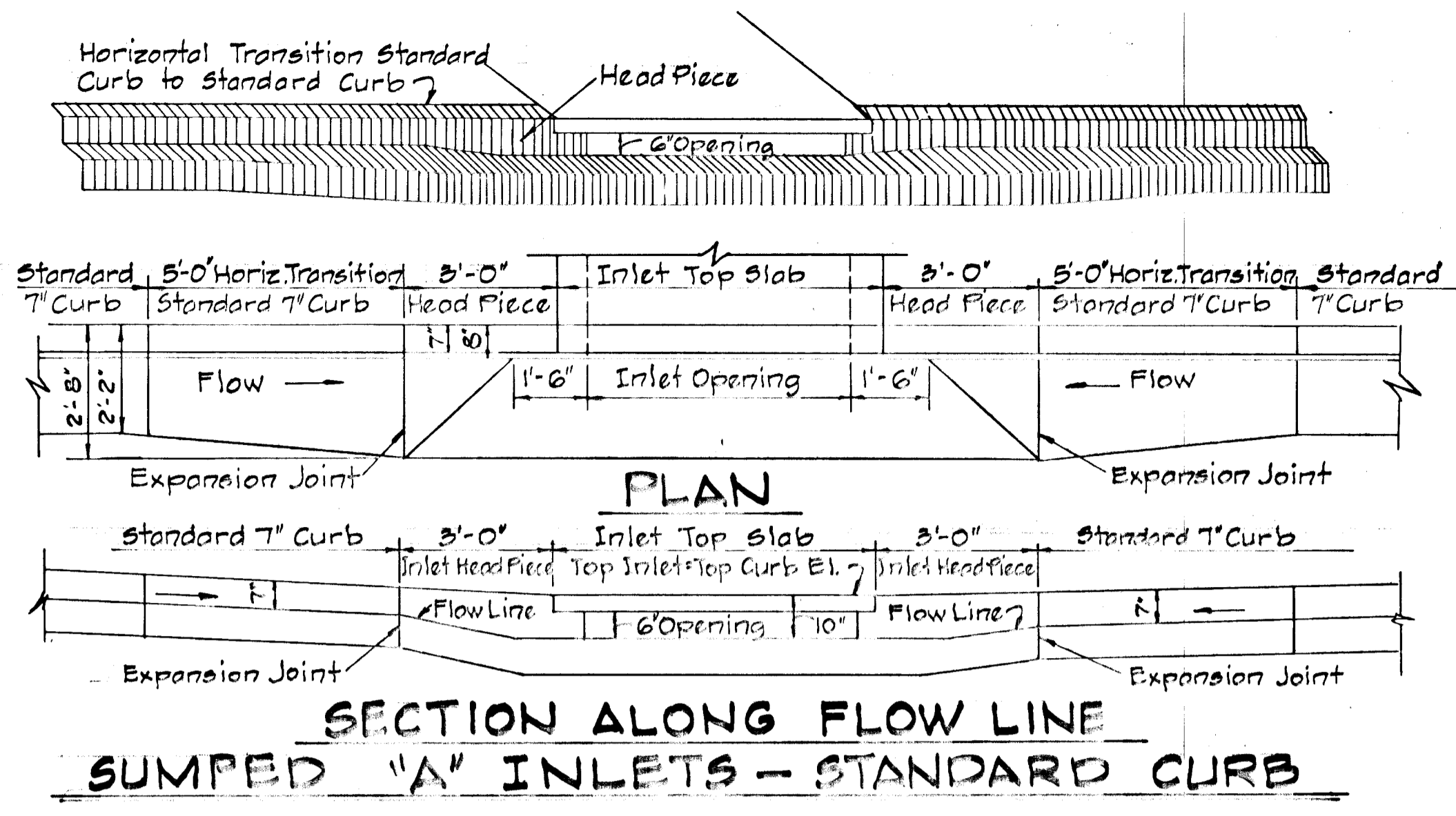
PROJECT TITLE
DRAINAGE AREA MAP
& STORM DRAIN PROFILE

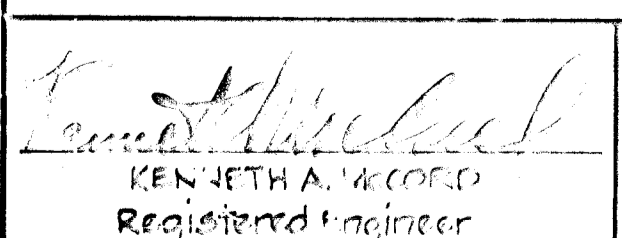
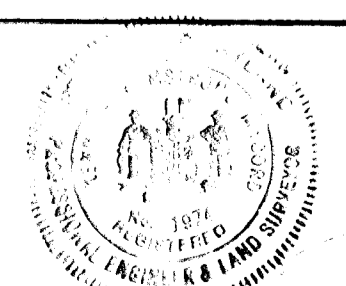
SCALE: AS SHOWN DATE:

WHITMAN, REQUARDT AND ASSOCIATES
ENGINEERS
BALTIMORE, MARYLAND 21215

Kenneth A. McCord
KENNETH A. MCCORD
Registered Engineer
No. 1074

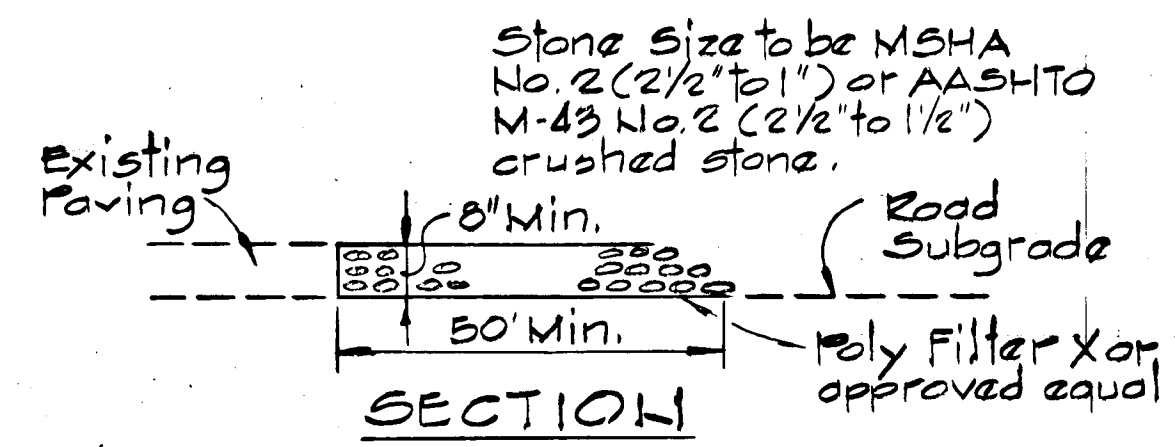




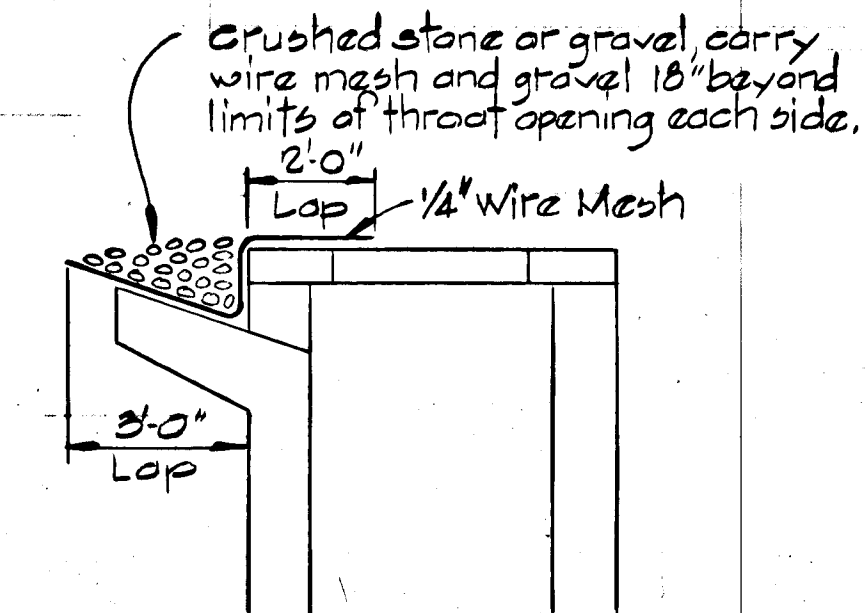
DATE	BY	AS PER DRW AND S.C.C. COMMENTS
REVISION NO.	REVISION DESCRIPTION	
COLUMBIA		
5TH ELECTION DISTRICT		
HOWARD COUNTY, MARYLAND		
OWNER AND DEVELOPER		
HOWARD RESEARCH AND DEVELOPMENT CORPORATION		
PROJECT AREA		
VILLAGE OF HICKORY RIDGE		
SECTION B AREA G		
LOTS I-10 THRU I-100		
PROJECT TITLE		
STANDARD DETAILS		
SCALE: AS SHOWN		DATE: _____
WHITMAN, PEQUARDT & ASSOCIATES ENGINEERS BALTIMORE, MARYLAND 21218		
 KENNETH A. COLD Registered Engineer No. 1074		

SEDIMENT TRAP #1
DESIGN DATA
 DRAINAGE AREA: 11.9 ACRES
 VOLUME REQUIRED: 1.0 x 67 = 127 CY
 TOP DECK ELEV.: 352.0
 DESIGN CAPACITY ELEV.: 351.0
 BOTTOM TRAP ELEV.: 349.5
 STONE OUTLET WIDTH: 8'

DEPARTMENT OF PUBLIC WORKS
 William S. P. O'Connell 9-21-84
 CHIEF, BUREAU OF ENGINEERING DATE
 OFFICE OF PLANNING & ZONING
 Arthur M. Murchman 9-18-84
 CHIEF, DIVISION OF LAND DEVELOPMENT DATE
 AND ZONING ADMINISTRATION



STABILIZED CONSTRUCTION ENTRANCE DETAIL
 No Scale



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% Redtop

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 crown vetch at the rate of 20 lbs/acre or 0.4 gals/1000² and Kentucky 31 Tall Fescue at the rate of 40 lbs/acre or 1 lb/1000².

SEDIMENT CONTROL NOTES

1. See sequence of construction on this sheet.
2. The sediment control measures shall be constructed as shown 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 on 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 Ryegrass (40 lbs/acre)
5. Mulch with straw at the rate of 50 lbs/1000² or 1 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.

SEQUENCE OF CONSTRUCTION

1. Install Stabilized Construction Entrance on Blue February Way.
2. Construct Sediment Trap #1 behind existing stone outlet structure.
3. Construct storm drain system from existing I-1 to I-D. Place stone filters at Inlets I-B and I-D.
4. Construct utilities, housing, curb and gutter and streets for lots I-110 thru I-125 and I-150 thru I-164.
5. Fine grade and construct sidewalks for lots I-110 thru I-125 and I-150 thru I-164.
6. Stabilize disturbed areas with permanent seeding, see specifications on this sheet.
7. Remove diversion dike and sediment trap #1 behind lots I-110 to I-125 and diversion dike behind New Country Lane. By permission of the D.P.W. Sediment Control Inspector.

- SPECIAL NOTES:**
1. All perimeter controls and slopes 3:1 or steeper must be stabilized within 7 days of initial disturbance with temporary seed and mulch per standards and specifications. All other graded areas on the project site must receive permanent or temporary stabilization within 14 days.
 2. All sediment traps and basins, must be fenced and warning signs posted around their perimeter in accordance with Volume 1, Chapter 12 of the Howard County Design Manual, Storm Drainage.

2/11/84	2	As Per S.C.S. Comments
3/14/84	1	As Per D.P.W. and S.C.S. Comments
REV DATE	REV NO.	REVISION DESCRIPTION

COLUMBIA
 5th ELECTION DISTRICT
 HOWARD COUNTY, MARYLAND

OWNER AND DEVELOPER
 HOWARD RESEARCH AND DEVELOPMENT CORPORATION

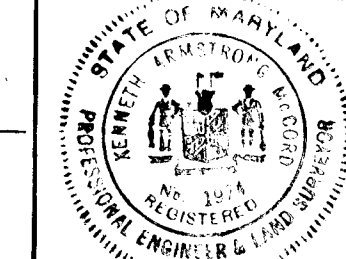
PROJECT AREA
 VILLAGE OF HICKORY RIDGE
 SECTION 3 AREA G
 PROJECT TITLE
 LOTS 110 THRU 166

SEDIMENT CONTROL PLAN
 LOTS 110 THRU 125 & LOTS 150 THRU 164

SCALE: AS SHOWN DATE:

WHITMAN, REARDT AND ASSOCIATES
 ENGINEERS
 BALTIMORE, MARYLAND 21215

Kenneth A. McCord
 Registered Engineer
 No. 1074



SEDIMENT CONTROL PLAN
 LOTS 110 THRU 125 & LOTS 150 THRU 164
 Scale: 1" = 50'

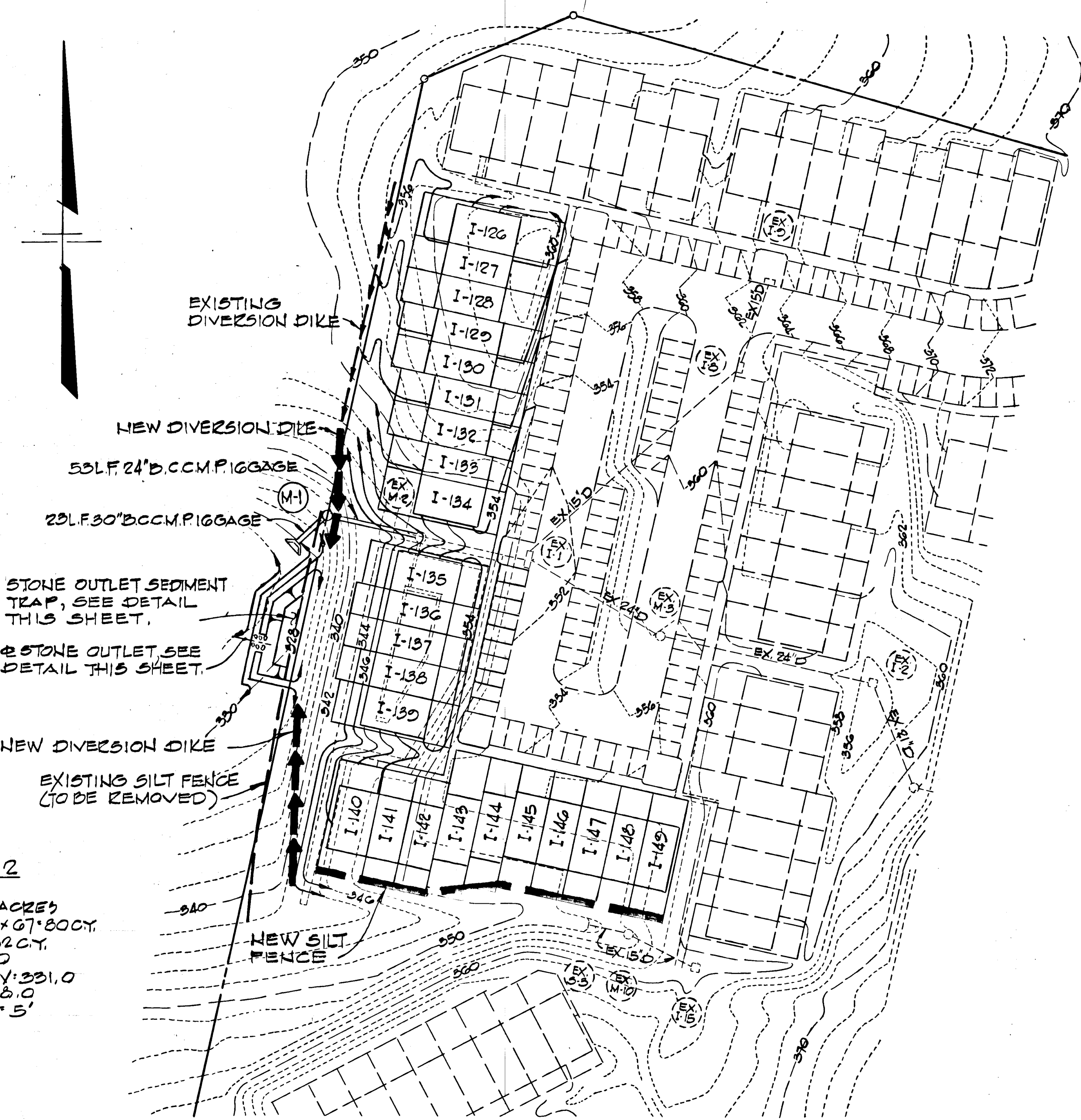
CERTIFICATION BY THE DEVELOPER
 "I/WE CERTIFY THAT ALL DEVELOPMENT AND CONSTRUCTION WILL BE DONE ACCORDING TO THIS PLAN, AND THAT ANY RESPONSIBLE PERSONNEL INVOLVED IN THE CONSTRUCTION PROJECT WILL HAVE A CERTIFICATE OF ATTENDANCE AT A DEPARTMENT OF NATURAL RESOURCES APPROVED TRAINING PROGRAM FOR THE CONTROL OF SEDIMENT AND EROSION BEFORE BEGINNING THE PROJECT."
 Walter E. Woodford 5-23-84
 DATE

CERTIFICATION BY THE ENGINEER
 "I 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."
 Kenneth A. McCord 5-23-84
 DATE

REVIEWED FOR HOWARD S.C.D. AND MEETS TECHNICAL REQUIREMENTS
 James M. Nelson 9-18-84
 U.S. SOIL CONSERVATION SERVICE DATE

THIS DEVELOPMENT PLAN IS APPROVED FOR SOIL EROSION AND SEDIMENT CONTROL BY THE HOWARD SOIL CONSERVATION DISTRICT.
 APPROVED: Stephen L. Adams 9/18/84
 HOWARD S.C.S. DISTRICT

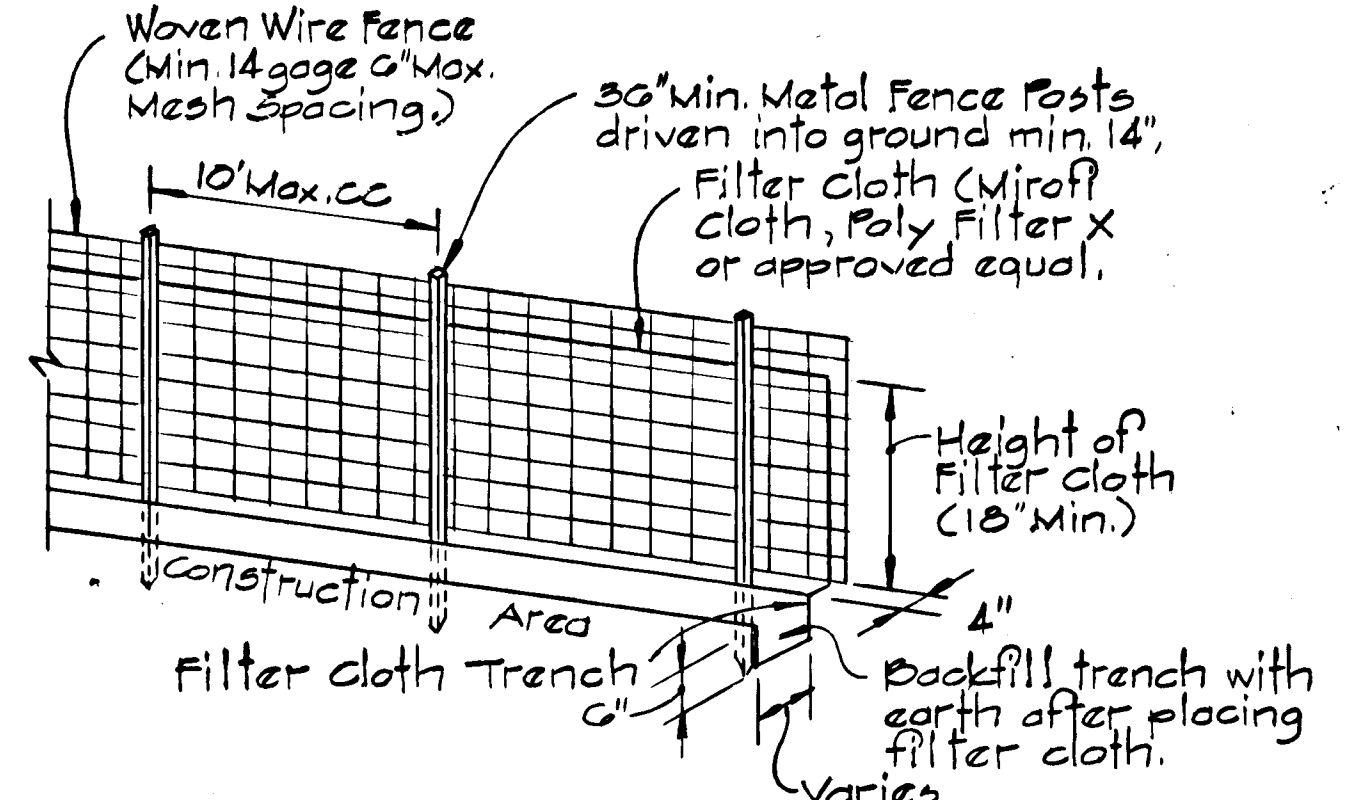
#42



SEDIMENT CONTROL PLAN
 LOTS 126 THRU 149
 Scale: 1" = 50'

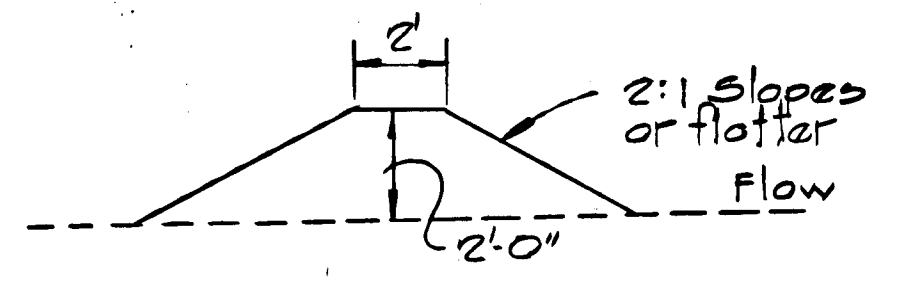
SEDIMENT TRAP #2
 DESIGN DATA
 DRAINAGE AREA: 1.2 ACRES
 VOLUME REQUIRED: 12 X 67,800 CY
 VOLUME AVAILABLE: 82 CY
 TOP BERM ELEV: 332.0
 DESIGN CAPACITY ELEV: 331.0
 BOTTOM TRAP ELEV: 328.0
 STONE OUTLET WIDTH: 5'

SPECIAL NOTES:
 1. All perimeter controls and slopes 3:1 or steeper must be stabilized within 7 days of initial disturbance with temporary seed and mulch per standards and specifications. All other graded areas on the project site must receive permanent or temporary stabilization within 14 days.
 2. All sediment traps and basins must be fenced and warning signs posted around their perimeter in accordance with Volume 1, Chapter 12 of the Howard County Design Manual, Storm Drainage.

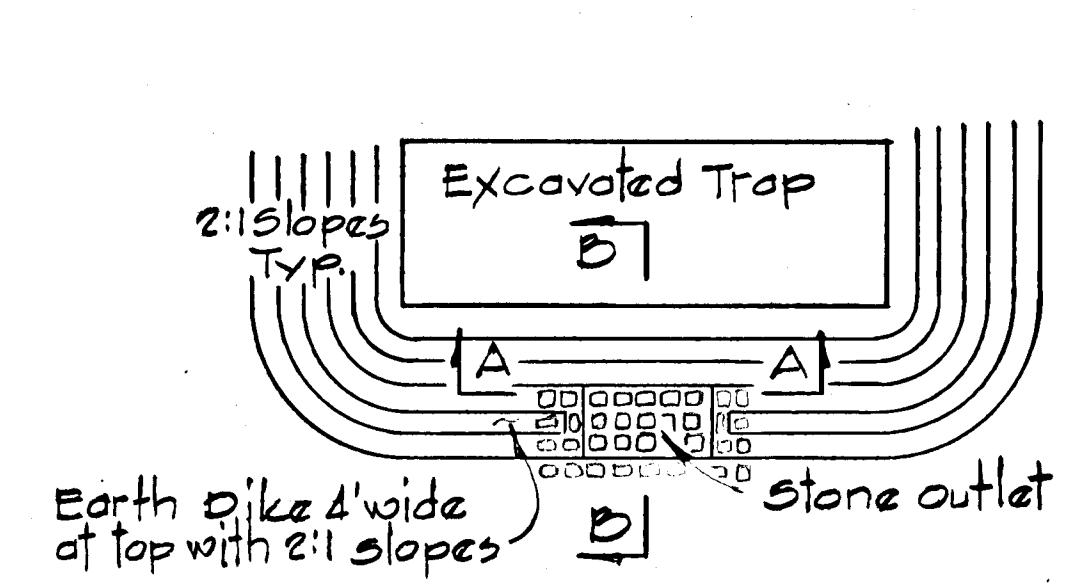


NOTES:
 1. Woven wire fence to be fastened securely to fence posts by use of wire ties.
 2. Filter cloth to be fastened securely to woven wire fence by use of wire ties spaced every 24".

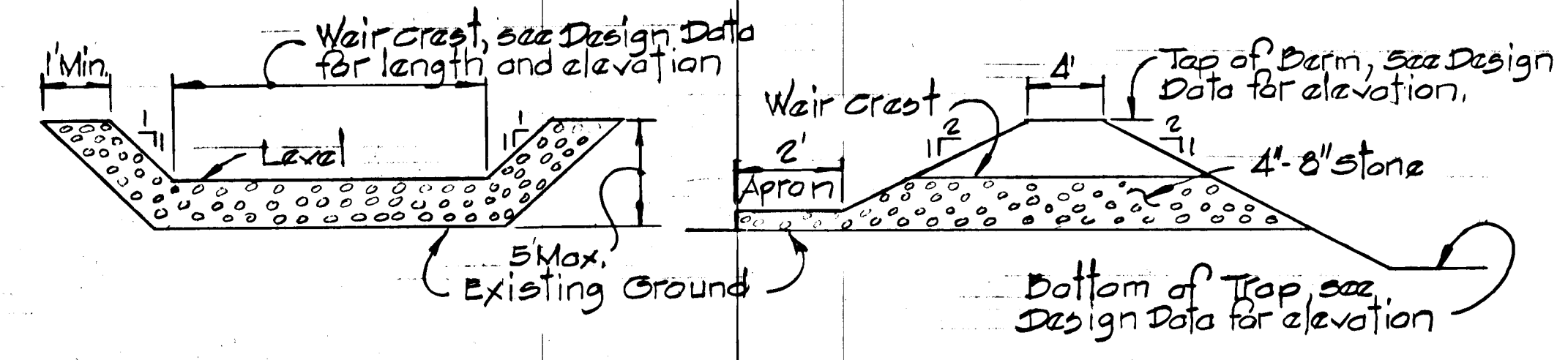
SILT FENCE DETAIL
 No Scale



DIVERSION DIKE
 No Scale



PLAN-EXCAVATED TRAP



SECTION A-A

SECTION B-B

SECTIONS THRU STONE OUTLET

STONE OUTLET SEDIMENT TRAP
 No Scale

SEQUENCE OF CONSTRUCTION
 1. After grass is established in the contributing drainage area (Lots I-126 thru I-125 and I-150 thru I-149) construct storm drain system from 3-1 to existing M-2. By permission of the D.P.W. Sediment Control Inspector.
 2. Construct sediment trap #2, diversion dikes and silt fence.
 3. Stabilize diversion dikes with temporary seeding, see specifications, sheet 5 of 6.
 4. Dewater if necessary and remove sediment from sediment basin. Clean basin bottom and remove principal spillway and temporary 24" C.M.F. Backfill spillway trench and basin to building subgrade with suitable material in eight inch lifts and compact to 90% of maximum density (AASHTO-T100).
 5. Construct utilities and housing for lots I-126 thru I-149.
 6. Fine grade and construct sidewalks for lots I-126 thru I-149.
 7. Remove diversion dikes, silt fence and sediment trap, By permission of the D.P.W. Sediment Control Inspector.

NOTE:
 SEE SHEET 5 FOR PERMANENT SEEDING AND SEDIMENT CONTROL NOTES.

REVIEWED FOR HOWARD SCD AND MEETS TECHNICAL REQUIREMENTS
 [Signature] 9-18-84
 U.S. SOIL CONSERVATION SERVICE DATE

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

CERTIFICATION BY THE ENGINEER
 "I 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] 5-23-84
 KENNETH A. MCCORD DATE

CERTIFICATION BY THE DEVELOPER
 "I/WE CERTIFY THAT ALL DEVELOPMENT AND CONSTRUCTION WILL BE DONE ACCORDING TO THIS PLAN, AND 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] 5-23-84
 WALTER E. WOODFORD DATE

0/1/84	2	As Per S.C.S. Comments
0/1/84	1	As Per D.P.W. and SCS Comments
REV DATE	REV. NO.	REVISION DESCRIPTION

COLUMBIA
 5th ELECTION DISTRICT
 HOWARD COUNTY, MARYLAND
 OWNER AND DEVELOPER
 HOWARD RESEARCH AND DEVELOPMENT CORPORATION
 PROJECT AREA
 VILLAGE OF HICKORY RIDGE
 SECTION 3 AREA G
 LOTS 110 THRU 160
 PROJECT TITLE
 SEDIMENT CONTROL PLAN
 LOTS 126 THRU 149

SCALE: AS SHOWN DATE:
 WHITMAN, REQUARDT AND ASSOCIATES ENGINEERS
 BALTIMORE, MARYLAND 21218
 [Signature] 5-23-84
 KENNETH A. MCCORD
 Registered Engineer
 No. 1074

