





### STORM DRAIN STRUCTURE SCHEDULE

NO.	TYPE	TOPEL	INV. IN	INV. OUT	LOCATION
F-44	A-5 Inlet (width 30) S.D. 4.0	381.69	378.51	378.51	Inlet 32.17 Right of Sta. 1+72.50
F-45	A-5 Inlet (width 25) S.D. 4.0	381.69	376.04	376.04	Inlet 31.22 Left of Sta. 1+72.50
F-46	Type D Inlet S.D. 4.11	381.69	—	—	Inlet 31.22 Left of Sta. 1+72.50

- #### STREET TREE LEGEND:
- ① SHADE TREE: I.E. FRAXINUS L. MARSHALL SEEDLESS  
2 1/2" - 3" CAL. 12' - 14' HT. MIN. (47)
  - ② POWERING TREE: I.E. YOSHINO CHERRY  
8' - 10' HT. (10)

NOTE:  
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 BUILDER'S LANDSCAPE PROGRAM. BOND RELEASE IS CONTINGENT UPON SECTION 16.131 OF HOWARD COUNTY SUBDIVISION AND LAND DEVELOPMENT REGULATIONS, AS APPROVED BY THE OFFICE OF PLANNING & ZONING.

NOTE:  
PAVING WIDTH - 2-24' LANES  
LENGTH OF ROAD - 789'  
4 SEWER M.I.'S IN ROAD R/W

#### ⊕ CURVE DATA

P.C. 2+51.45 TO P.T. 5+78.03	P.C. 6+78.03 TO P.C. 8+90.43
Δ: 30°34'51" Tan: 167.59'	Δ: 14°25'26" Tan: 76.30'
R: 613.00' Chd: 329.31'	R: 603.00' Chd: 151.40'
ARC: 327.18' Chd. Brg: 550°32'46"W	ARC: 151.80' Chd. Brg: 542°28'03"W

#### ⊕ MEDIAN CURVE DATA

① Δ: 08°01'34" Tan: 41.88'	② Δ: 13°54'42" Tan: 55.39'
R: 597.00' Chd: 83.56'	R: 454.00' Chd: 109.06'
ARC: 83.63' Chd. Brg: 539°16'08"W	ARC: 110.23' Chd. Brg: 542°31'31"W

NOTE: CENTER POINT OF 2' RADIUS @ STA. 7+87.94 (Future)  
B.M. # 2 ELEV. 380.56

### PROFILE

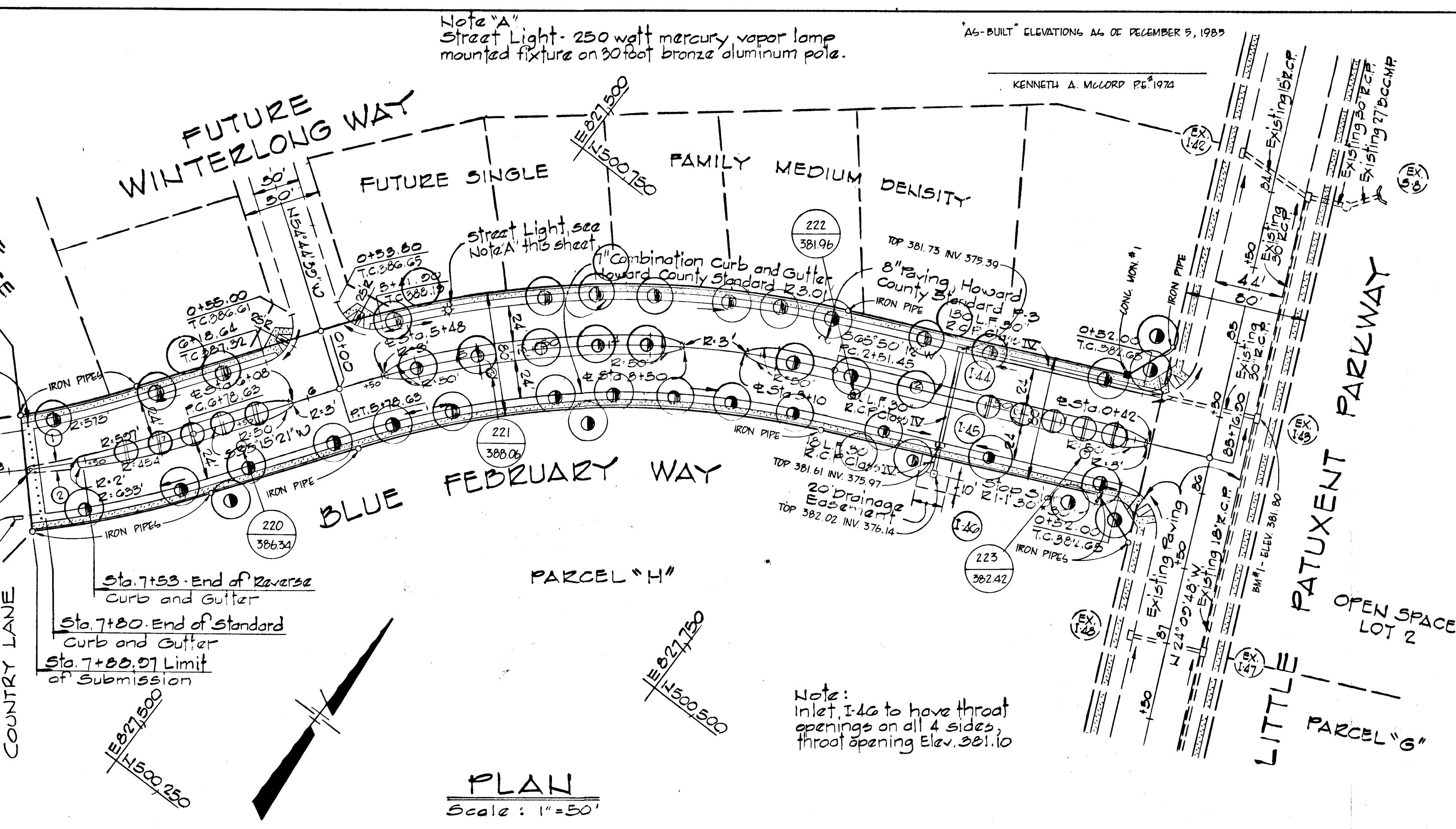
Scale: Hor: 1"=50' Vert: 1"=5'

BLUE FEBRUARY WAY

STA. 7+88.07 LIMIT OF SUBMISSION

Note "A"  
Street Light - 250 watt mercury vapor lamp mounted fixture on 30 foot bronze aluminum pole.

"AS-BUILT" ELEVATIONS AS OF DECEMBER 5, 1985



PLAN  
Scale: 1"=50'

DEPARTMENT OF PUBLIC WORKS  
 8/24/84  
 CHIEF, BUREAU OF ENGINEERING DATE  
 OFFICE OF PLANNING & ZONING  
 Kenneth A. McCord 2-22-84  
 CHIEF, DIVISION OF LAND DEVELOPMENT DATE  
 AND ZONING ADMINISTRATION

NOTE: FOR EXISTING LITTLE PATUXENT PARKWAY PLAN AND PROFILE, SEE CONSTRUCTION DRAWINGS FOR VILLAGE OF HICKORY RIDGE SECTION 3 AREA 5 (F-84-51)

REV. DATE	REV. NO.	REVISION DESCRIPTION
2/13/84	2	As per DPW and SCS Comments
10/14/83	1	As per DPW and SCS 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 0

PROJECT TITLE  
PLAN AND PROFILE  
BLUE FEBRUARY WAY  
STA. 0+00 TO STA. 7+88.07

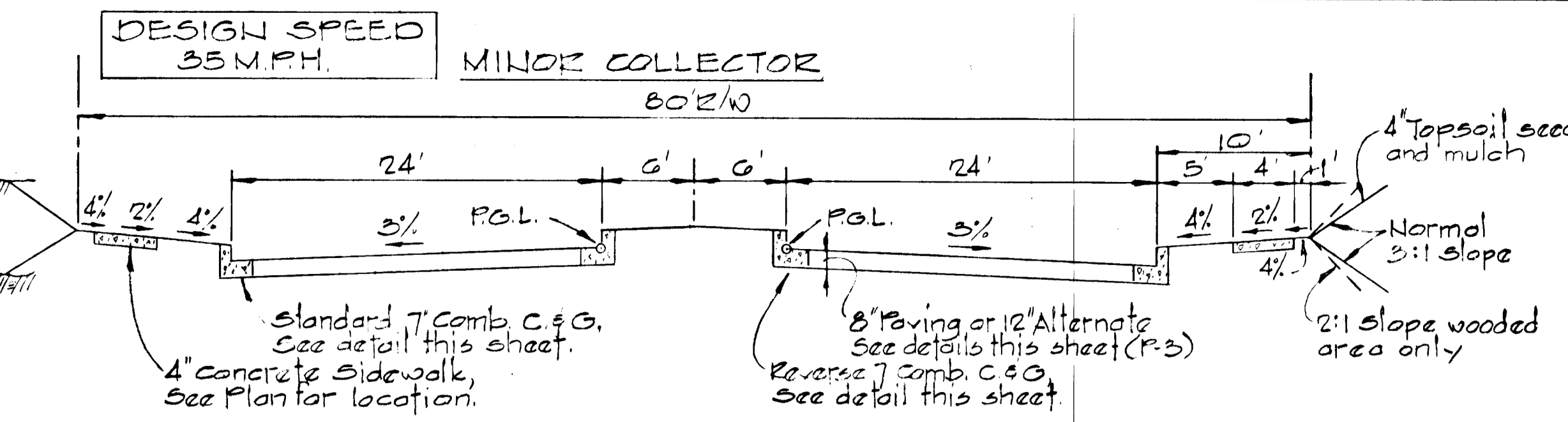
SCALE: AS SHOWN DATE:

WHITMAN, REQUARD AND ASSOCIATES  
ENGINEERS  
BALTIMORE, MARYLAND 21218

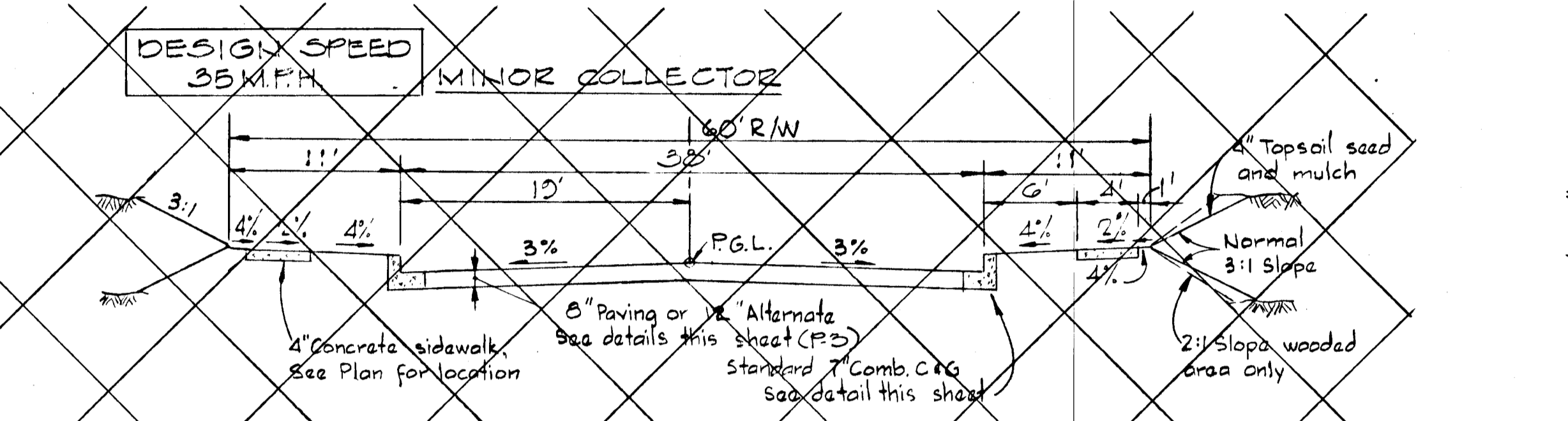
Kenneth A. McCord  
KENNETH A. MCCORD  
Registered Engineer  
No. 1072

"AS-BUILT" SURVEY CERTIFIED BY KENNETH A. MCCORD REG.-P.E. NO. 1974 ON APRIL 24, 1983

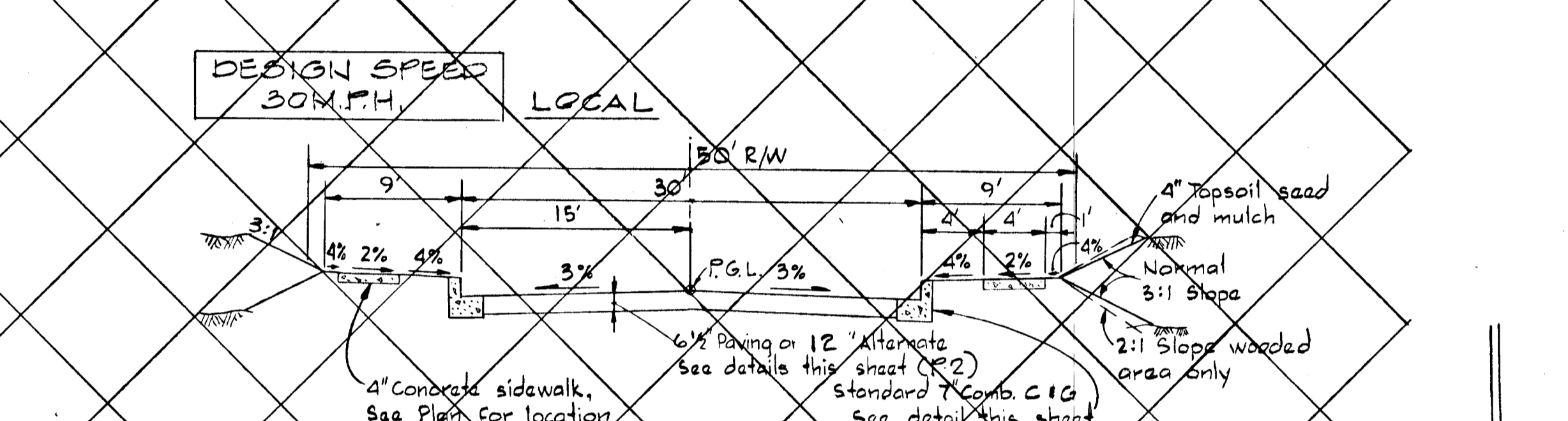




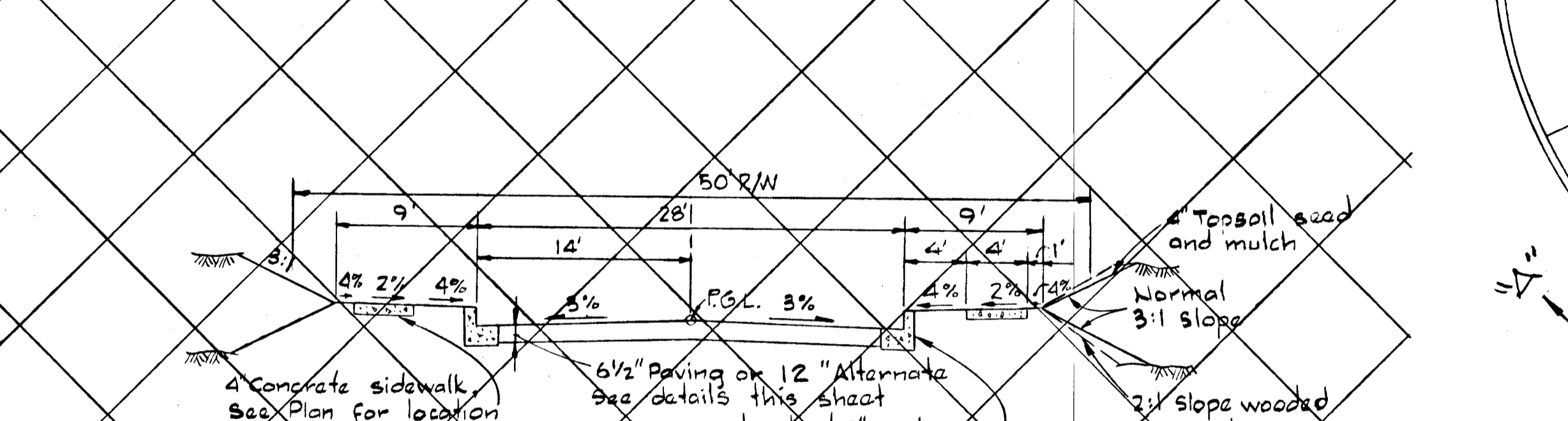
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 No Scale



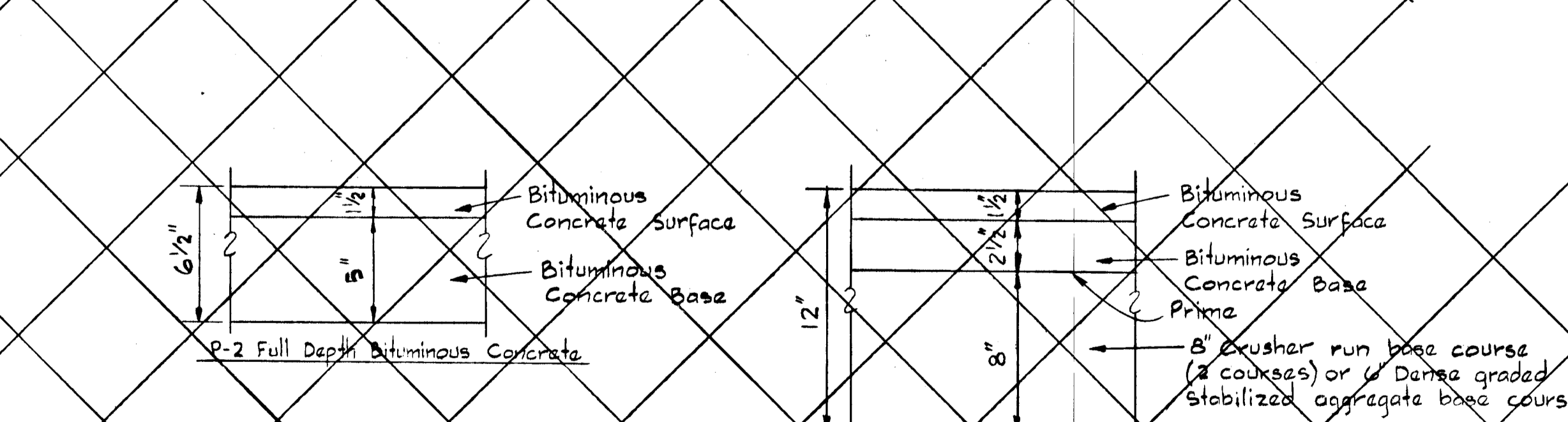
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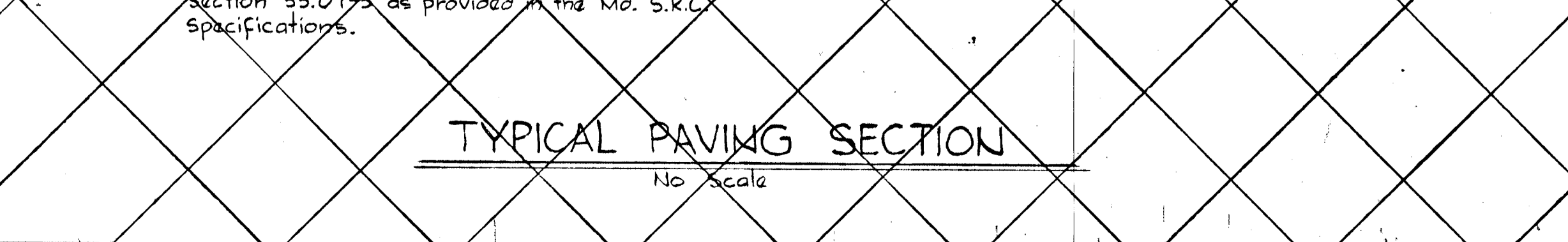
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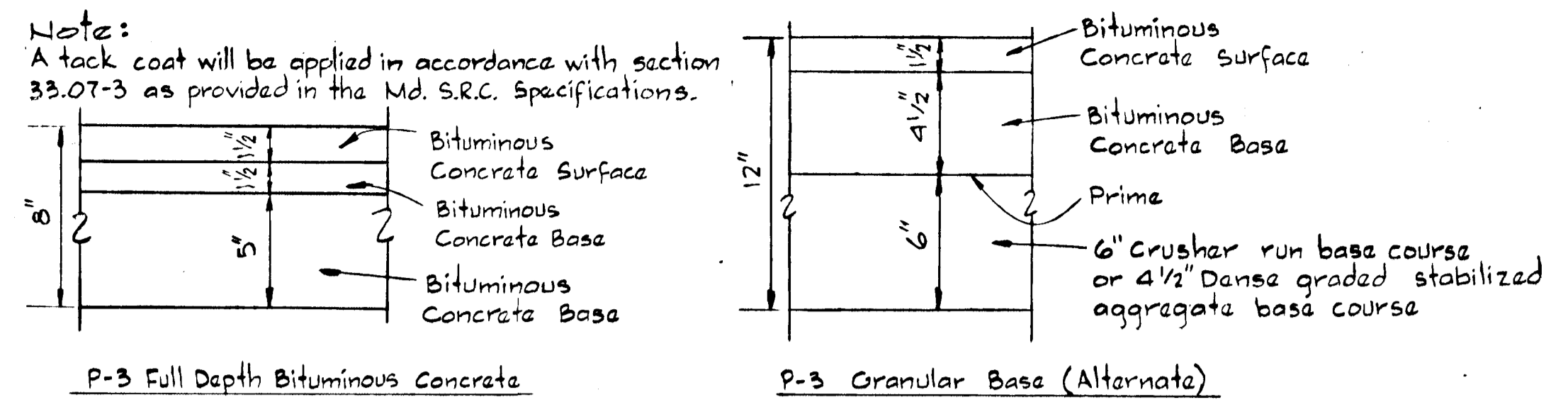
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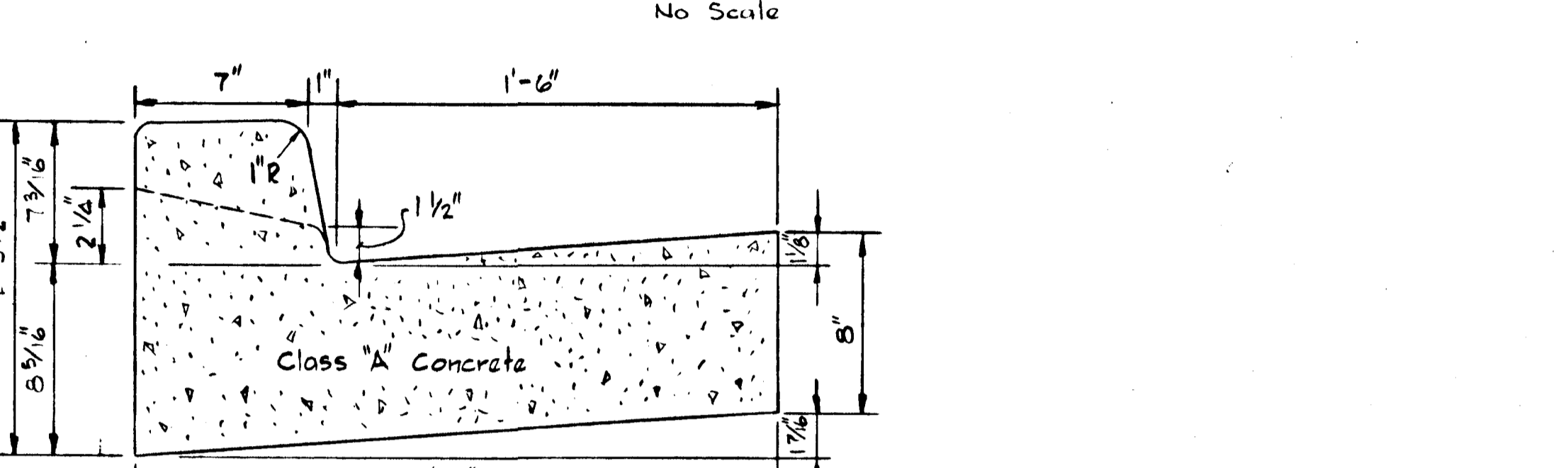
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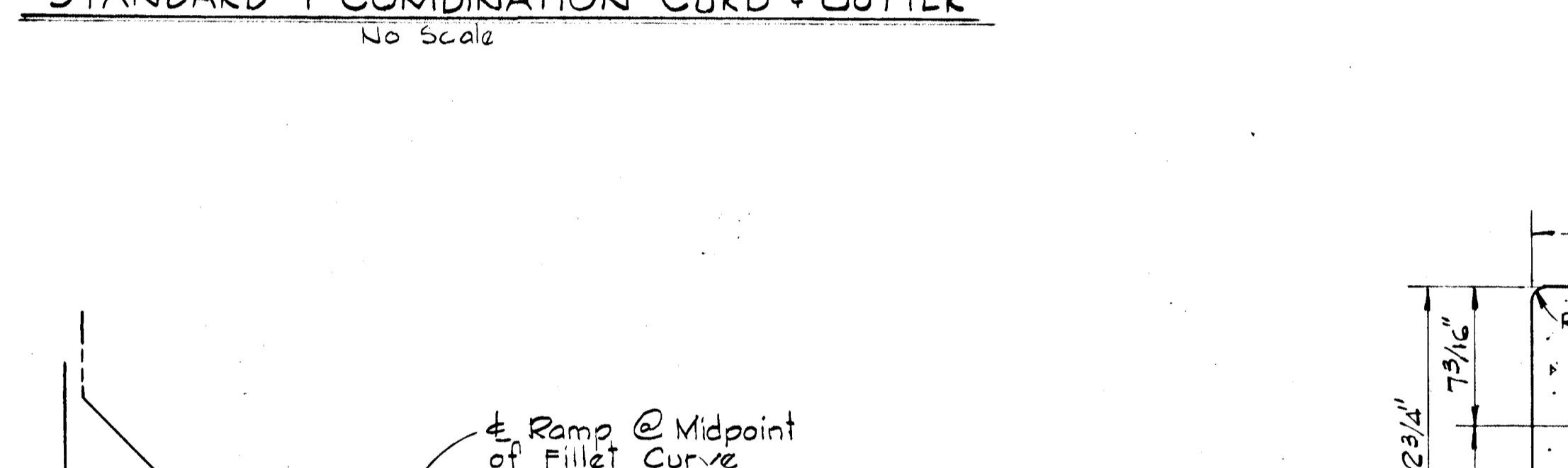
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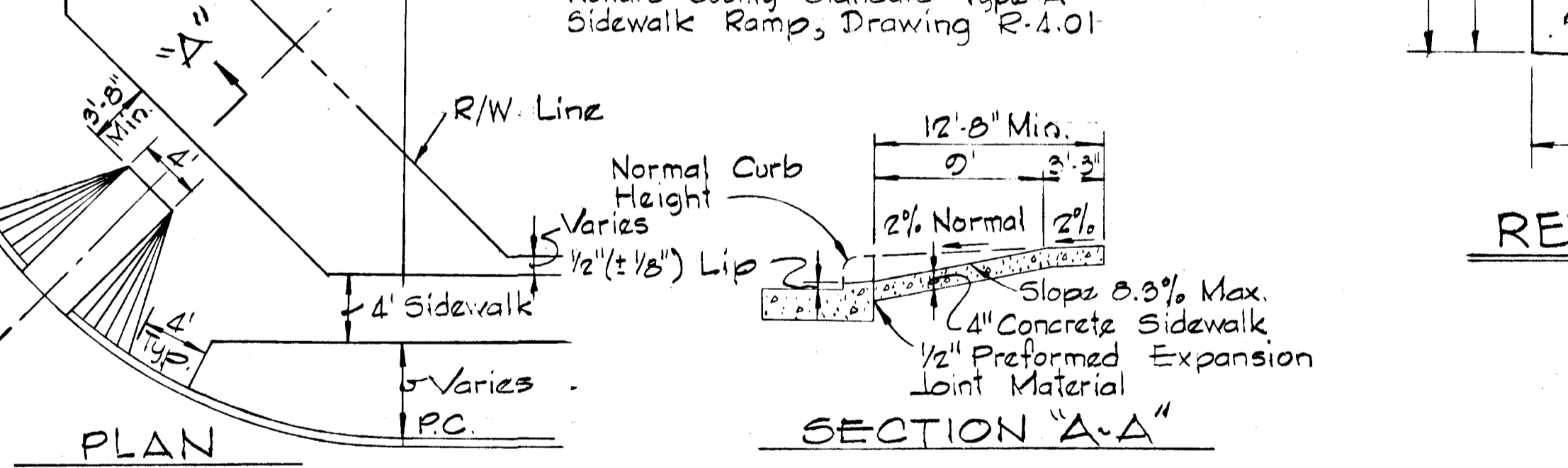
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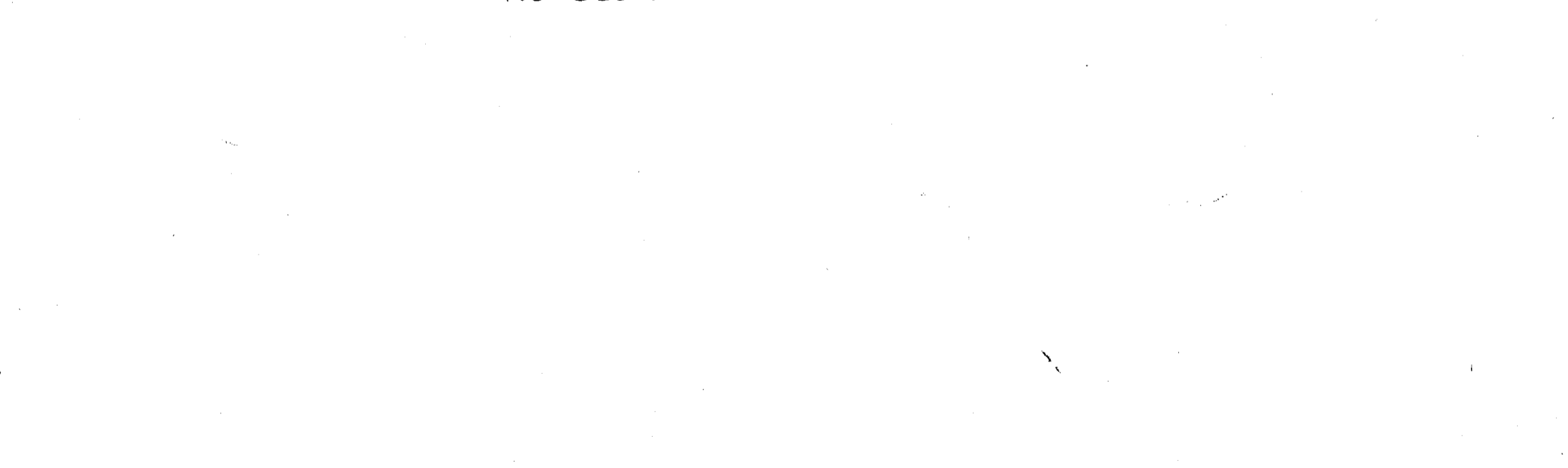
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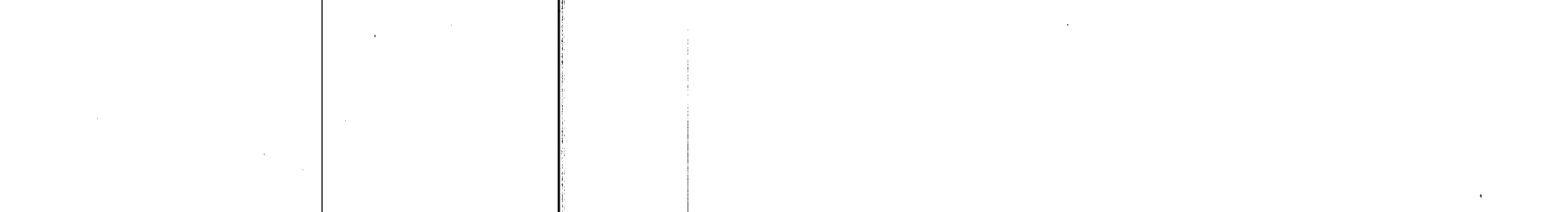
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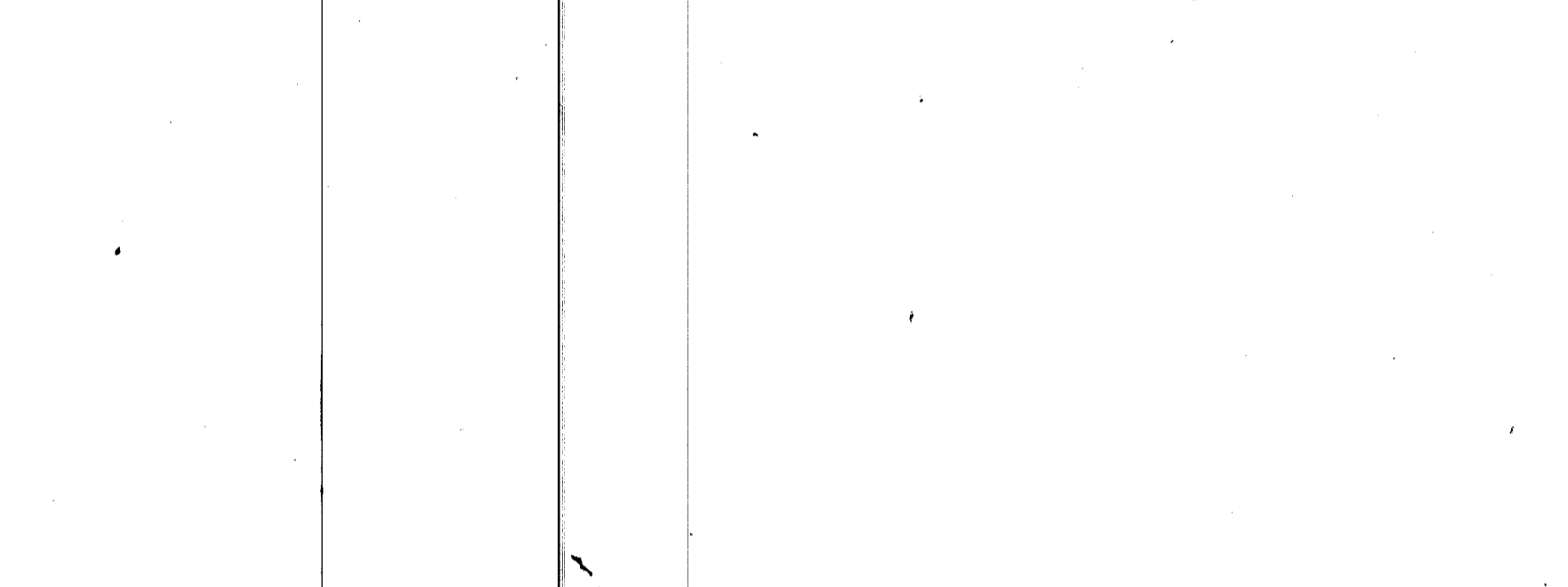
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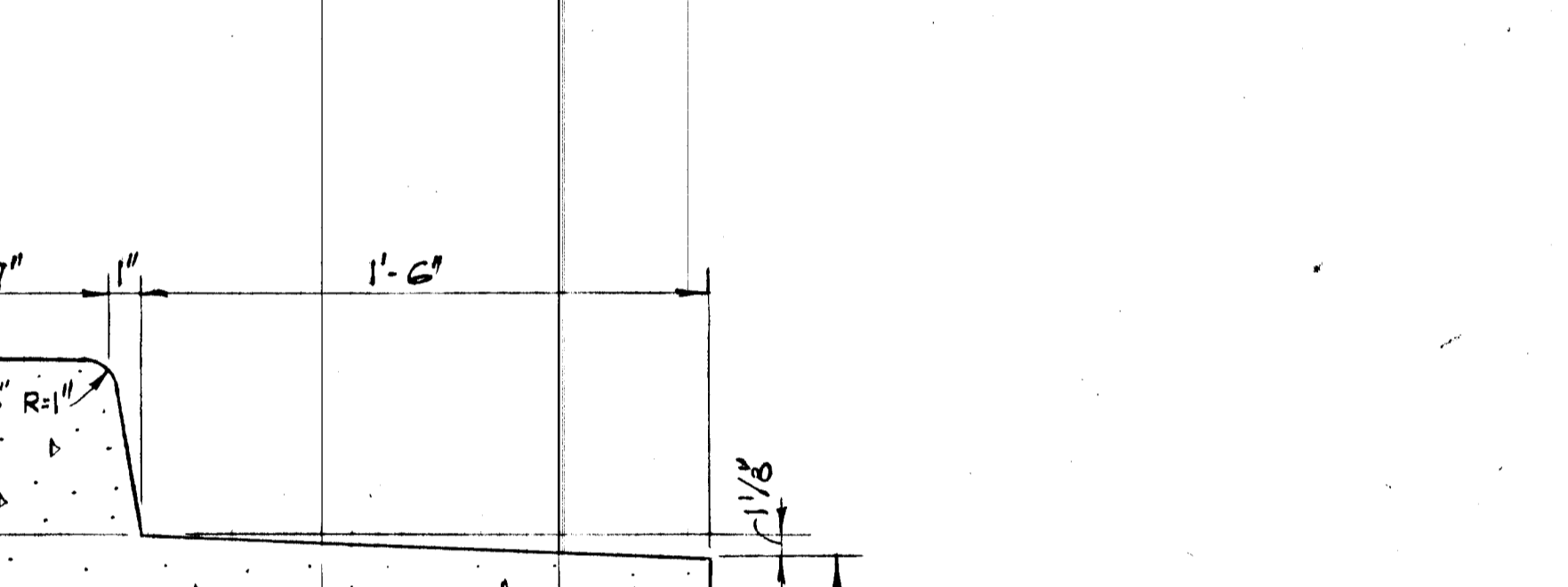
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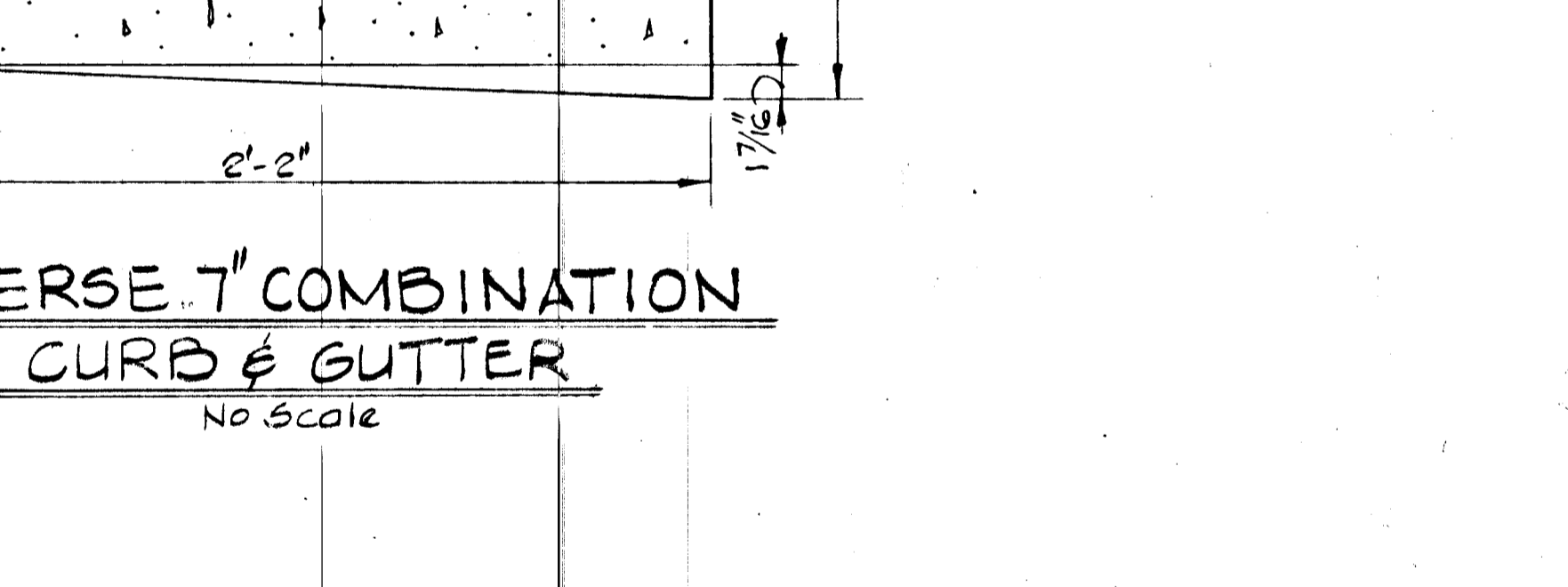
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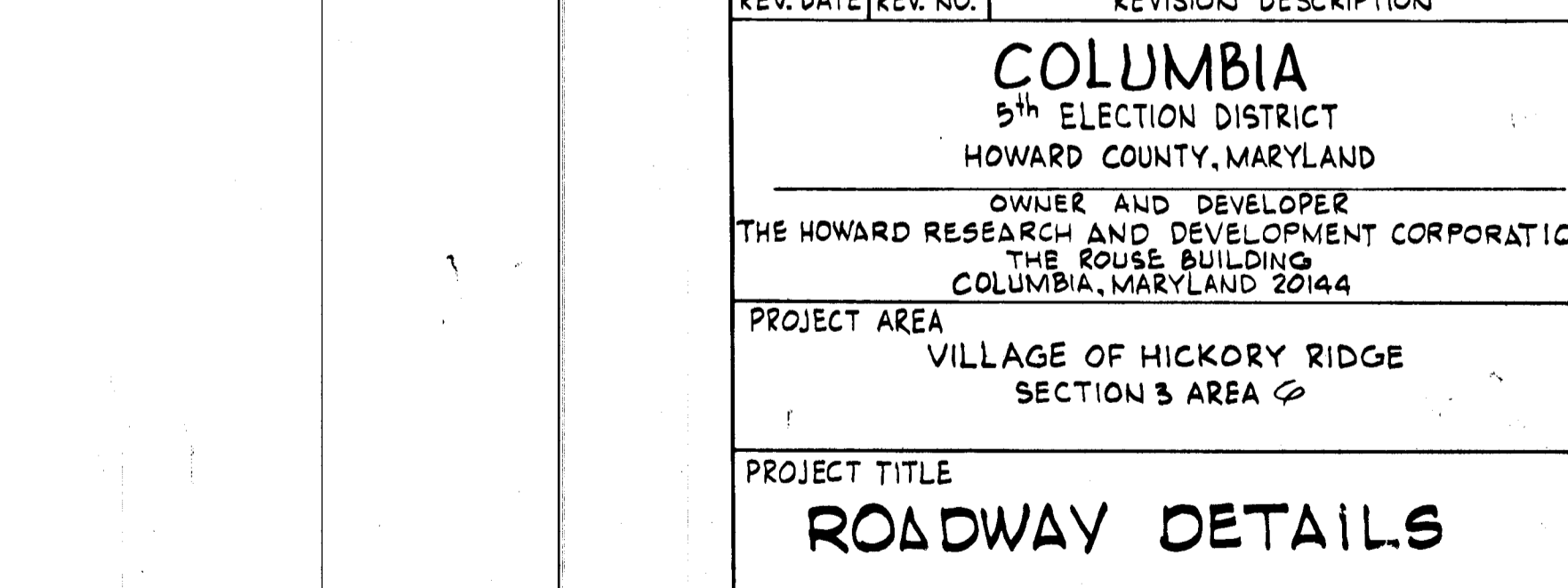
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REVERSE 7" COMBINATION CURB & GUTTER  
 No Scale



WHEEL CHAIR RAMP DETAIL  
 No Scale



TYPICAL PAVING SECTION  
 No Scale

REV. DATE	REV. NO.	REVISION DESCRIPTION
2/13/84	2	As Per DPW and S.C.S. Comments
10/14/83	1	As Per DPW and S.C.S. Comments

**COLUMBIA**  
 5th ELECTION DISTRICT  
 HOWARD COUNTY, MARYLAND

OWNER AND DEVELOPER  
 THE HOWARD RESEARCH AND DEVELOPMENT CORPORATION  
 THE ROUSE BUILDING  
 COLUMBIA, MARYLAND 21044

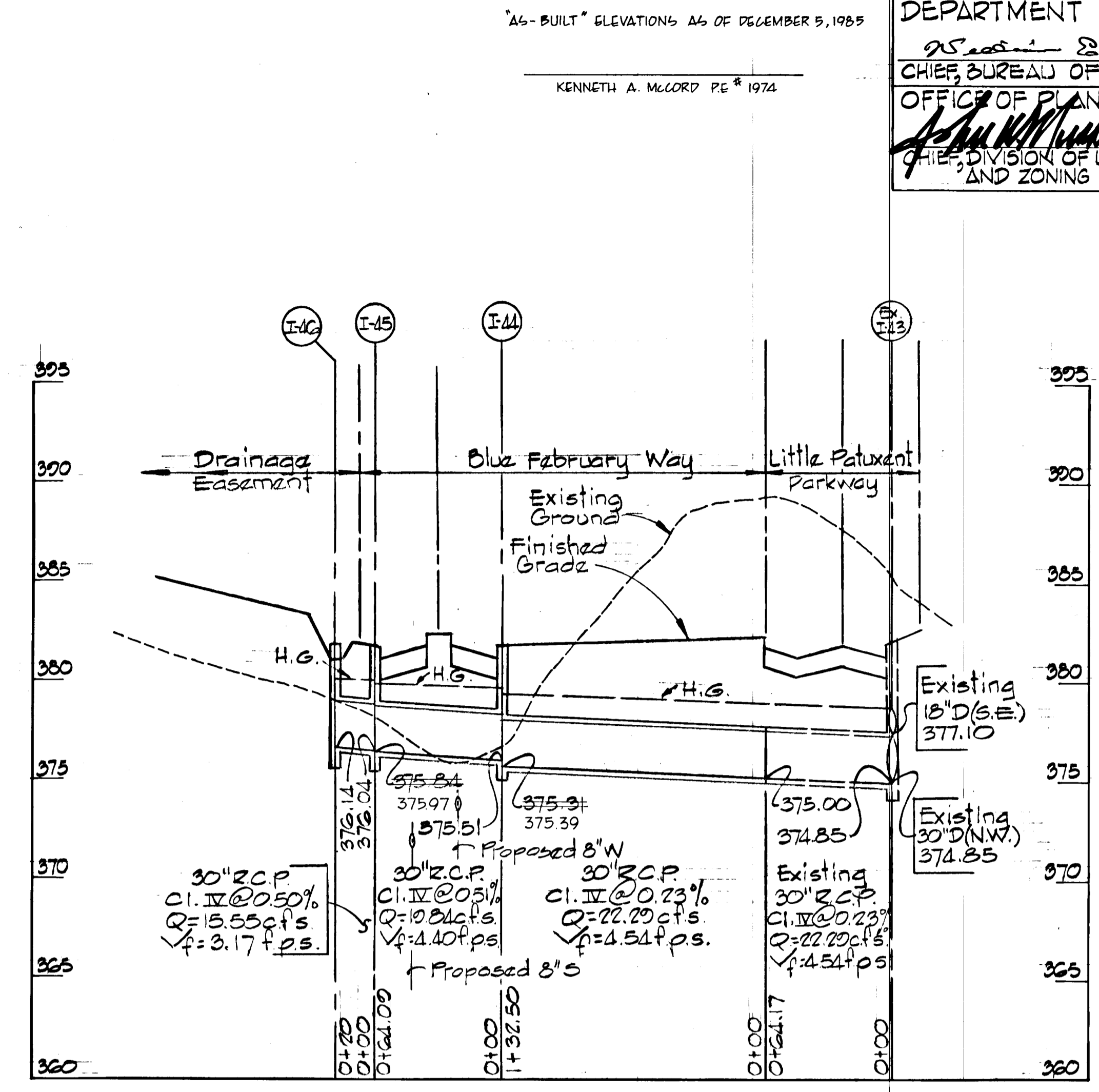
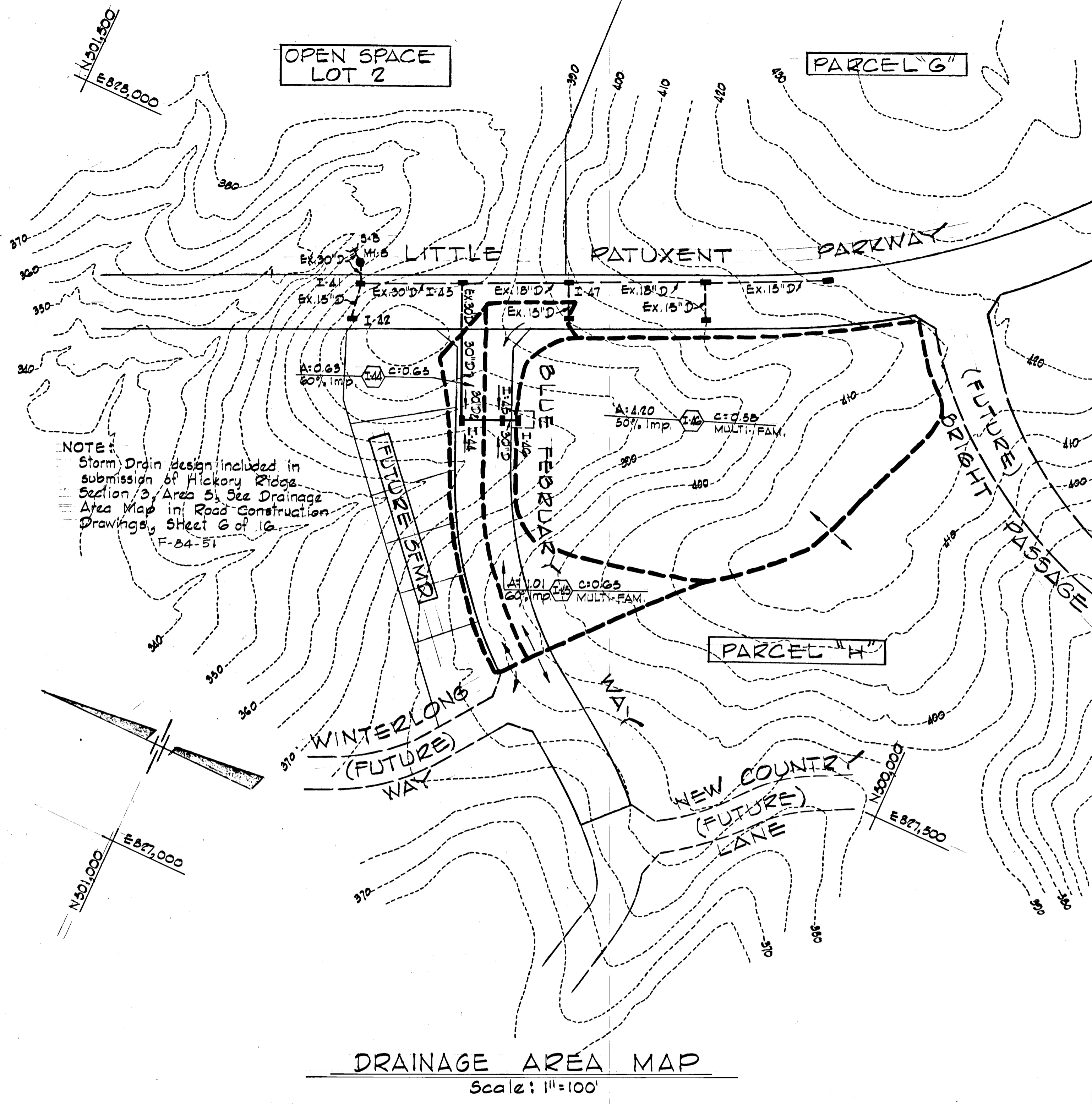
PROJECT AREA  
 VILLAGE OF HICKORY RIDGE  
 SECTION 3 AREA

PROJECT TITLE  
**ROADWAY DETAILS**

SCALE: AS SHOWN DATE

WHITMAN, REQUARDT AND ASSOCIATES  
 ENGINEERS  
 2315 ST. PAUL STREET  
 BALTIMORE, MARYLAND 21218

*Kenneth A. McCord*  
 KENNETH A. McCORD  
 Registered Engineer  
 No. 1974



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

DATE: 2-22-84

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

REV/DATE	REVNO	REVISION DESCRIPTION
2/19/84	2	As Per DFW and S.C.S. Comments
10/12/83	1	As Per DFW and S.C.S. Comments

**COLUMBIA**  
 5<sup>th</sup> ELECTION DISTRICT  
 HOWARD COUNTY, MARYLAND

OWNER AND DEVELOPER  
 HOWARD RESEARCH AND DEVELOPMENT CORPORATION

PROJECT AREA  
 VILLAGE OF HICKORY RIDGE  
 SECTION 3 AREA 6

PROJECT TITLE  
**DRAINAGE AREA MAP**

SCALE: As Shown DATE:

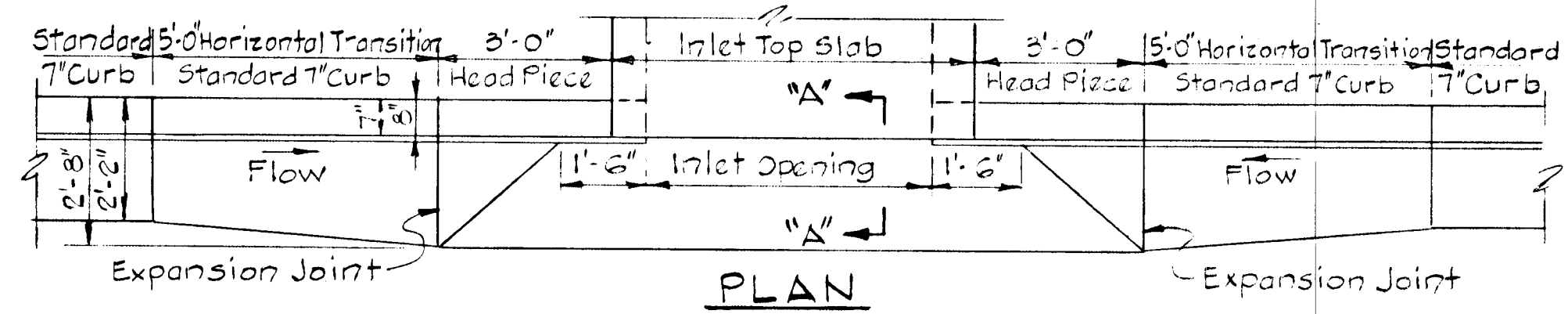
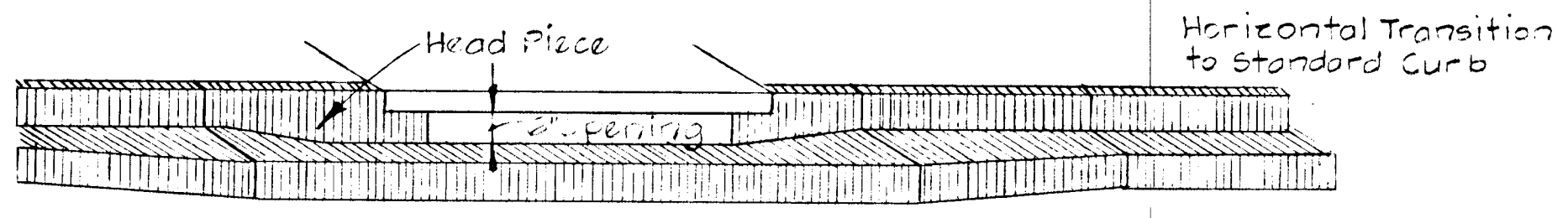
WHITMAN, REQUARDT AND ASSOCIATES  
 ENGINEERS  
 BALTIMORE, MARYLAND 21218

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

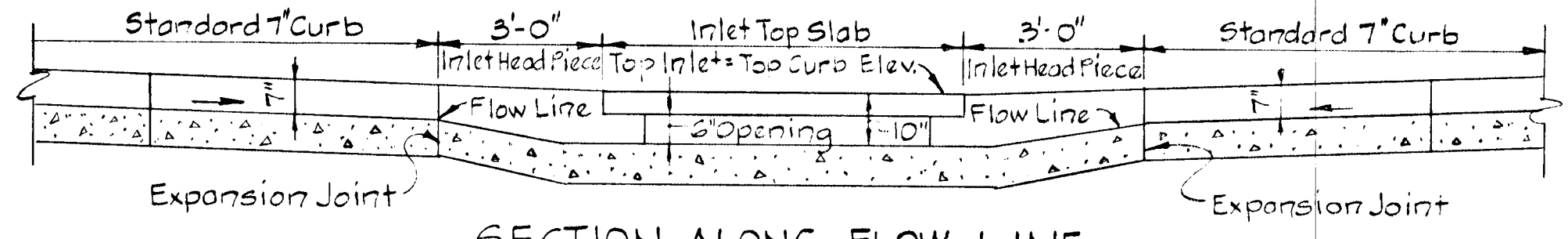
"AS-BUILT" ELEVATIONS AS OF DECEMBER 5, 1985  
 KENNETH A. MCCORD P.E. # 1974

"AS BUILT" SURVEY CERTIFIED BY  
 KENNETH A. MCCORD REG. P.E. NO. 1974 ON  
 APRIL 24, 1985

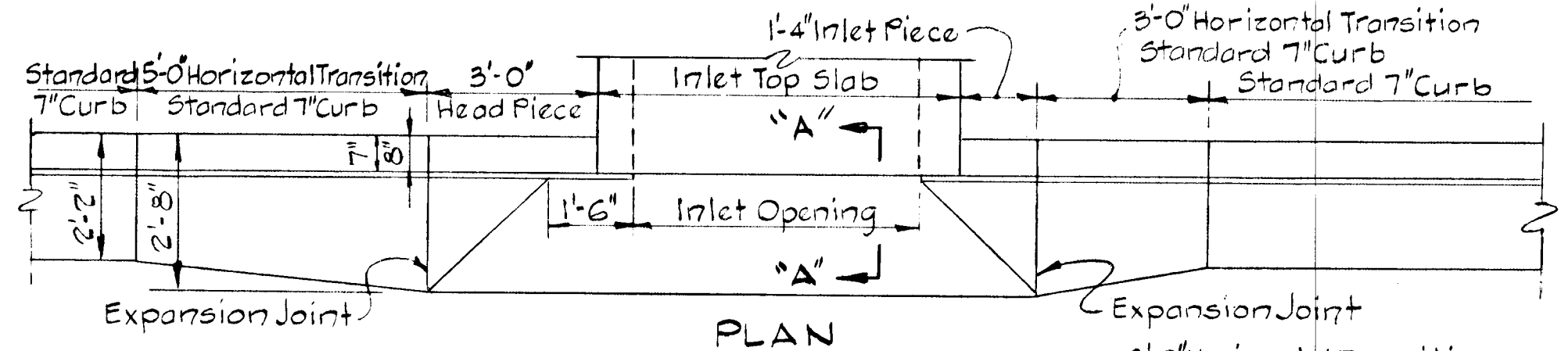




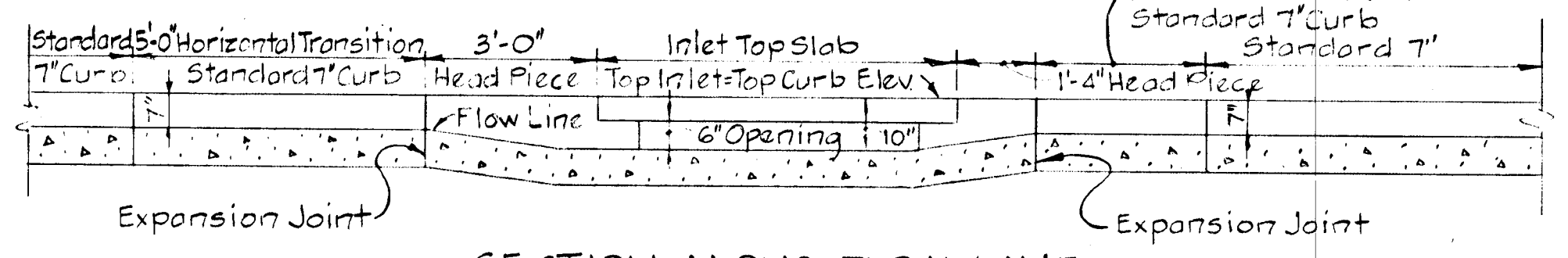
PLAN



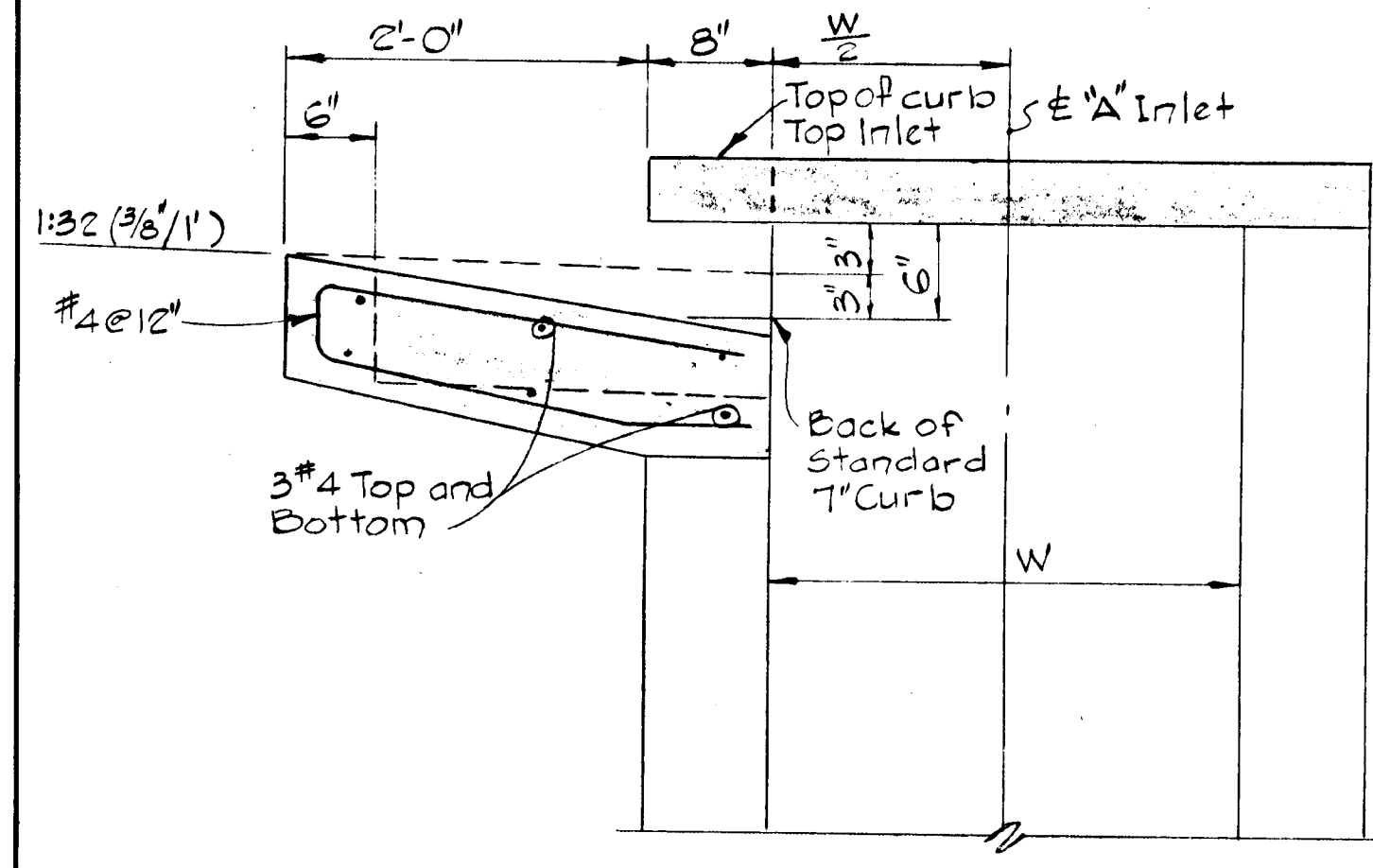
SECTION ALONG FLOW LINE  
 SUMPED "A" INLETS - STANDARD CURB



PLAN



SECTION ALONG FLOW LINE  
 "A" INLETS - STANDARD CURB



SECTION "A-A"  
 "A" INLET - STANDARD CURB

Note: For "A" Inlet dimensions and structural details, see standard Howard County Standards SD 4.01 & SD 4.02.

Rev. Date	Rev. No.	Revision Description
2/19/84	2	As per DPW and S.C.S. Comments
10/12/83	1	As per DPW and S.C.S. Comments

COLUMBIA  
 5<sup>th</sup> ELECTION DISTRICT  
 HOWARD COUNTY, MARYLAND

OWNER AND DEVELOPER  
 HOWARD RESEARCH AND DEVELOPMENT CORPORATION

PROJECT AREA  
 VILLAGE OF HICKORY RIDGE  
 SECTION 3 AREA 6

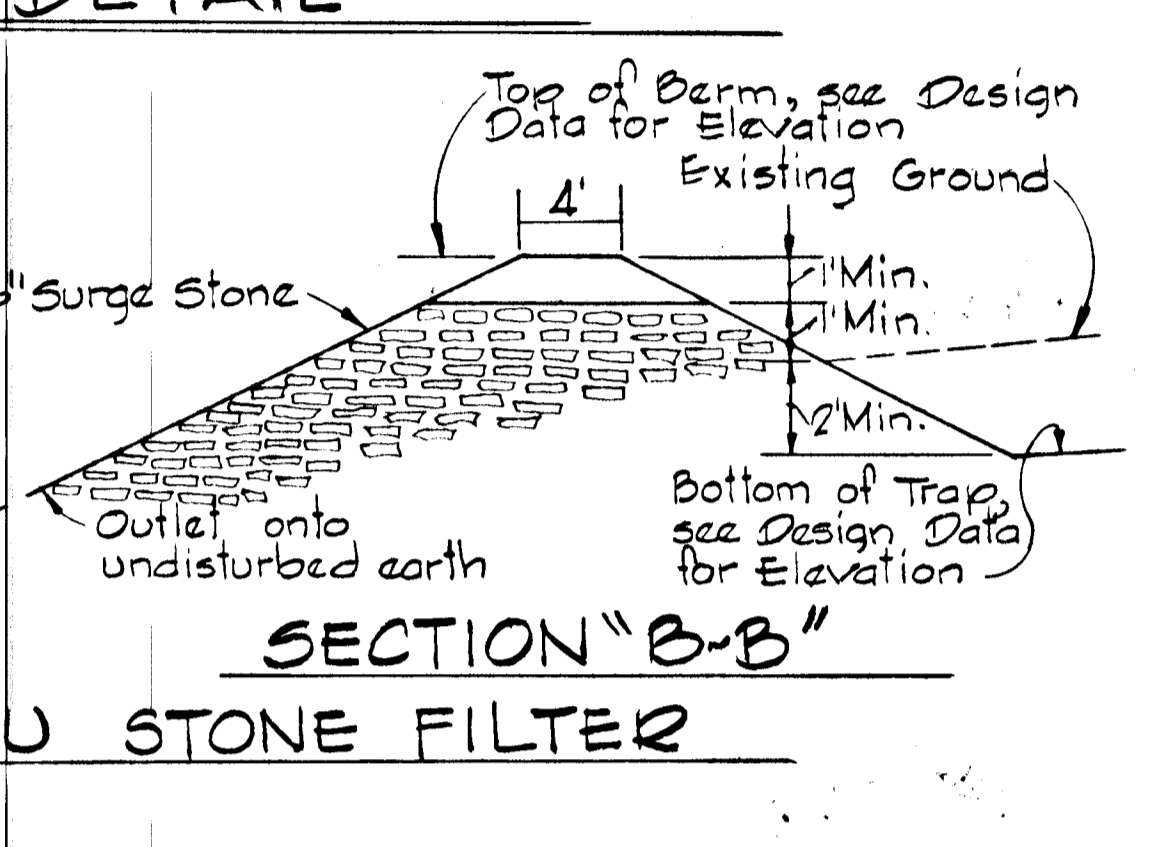
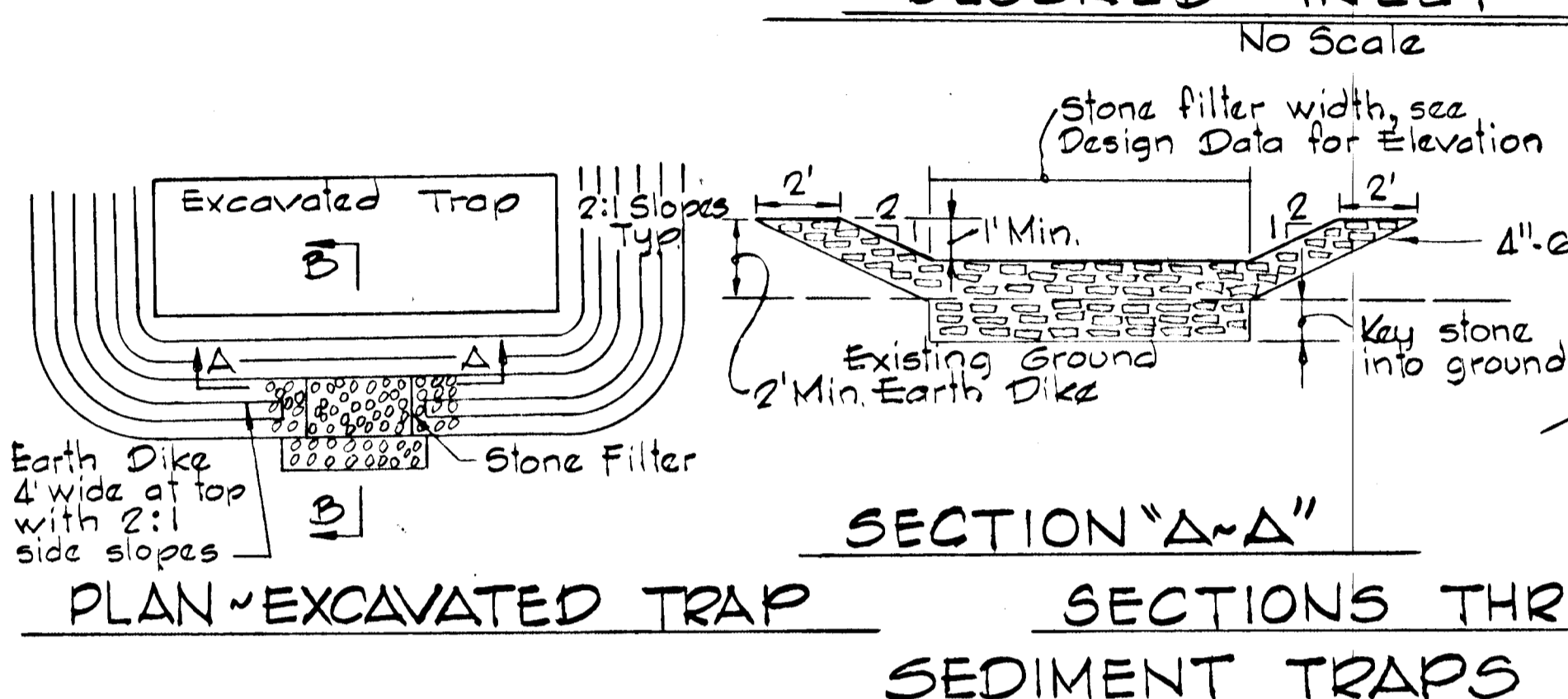
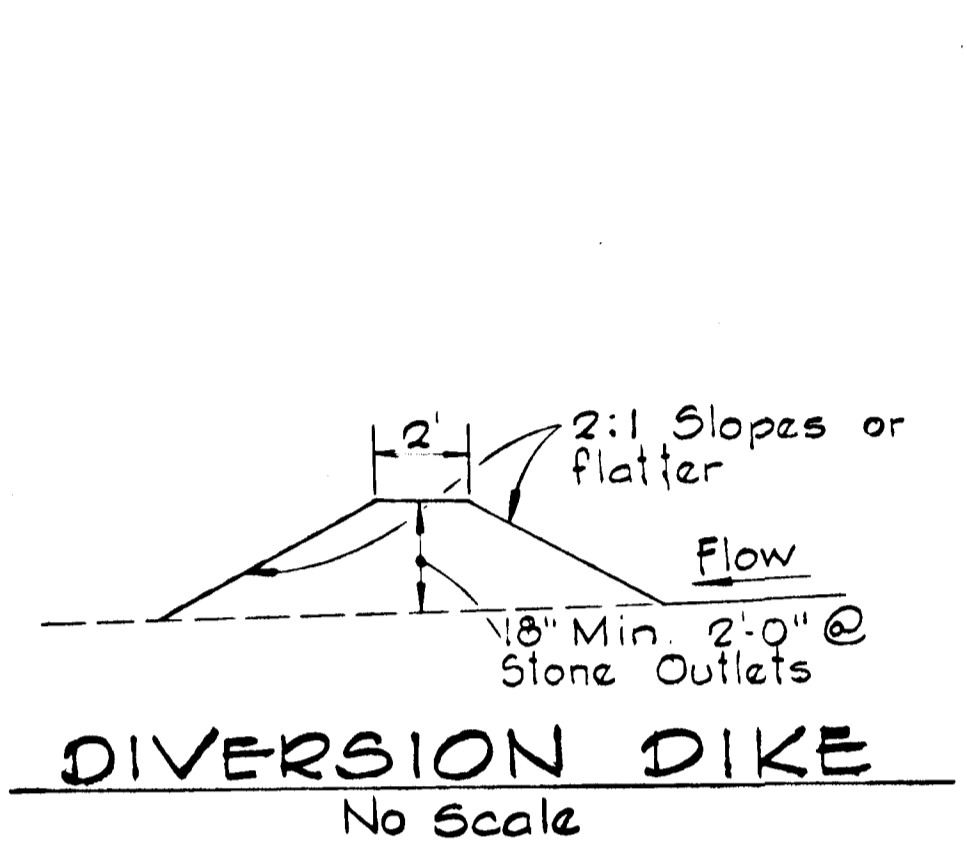
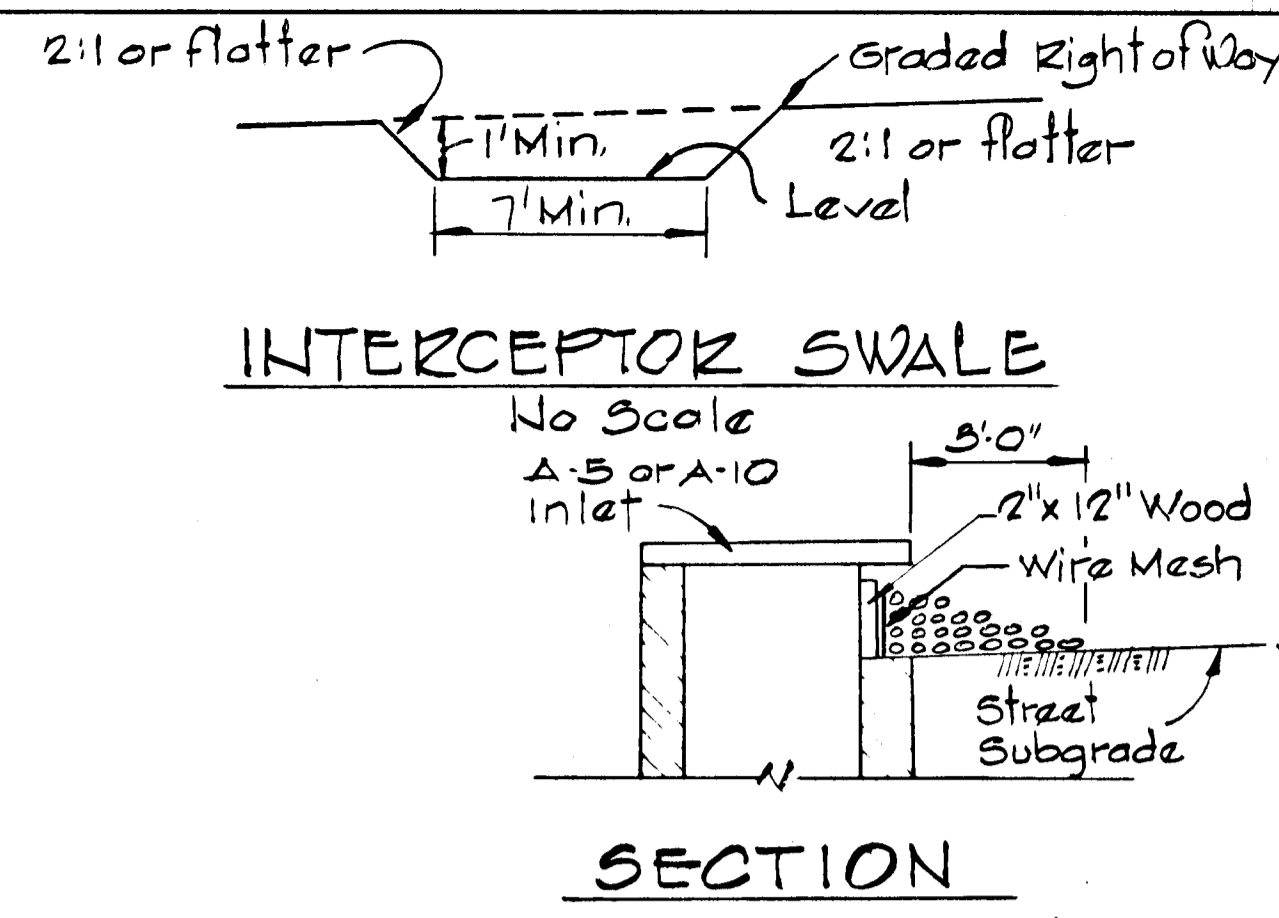
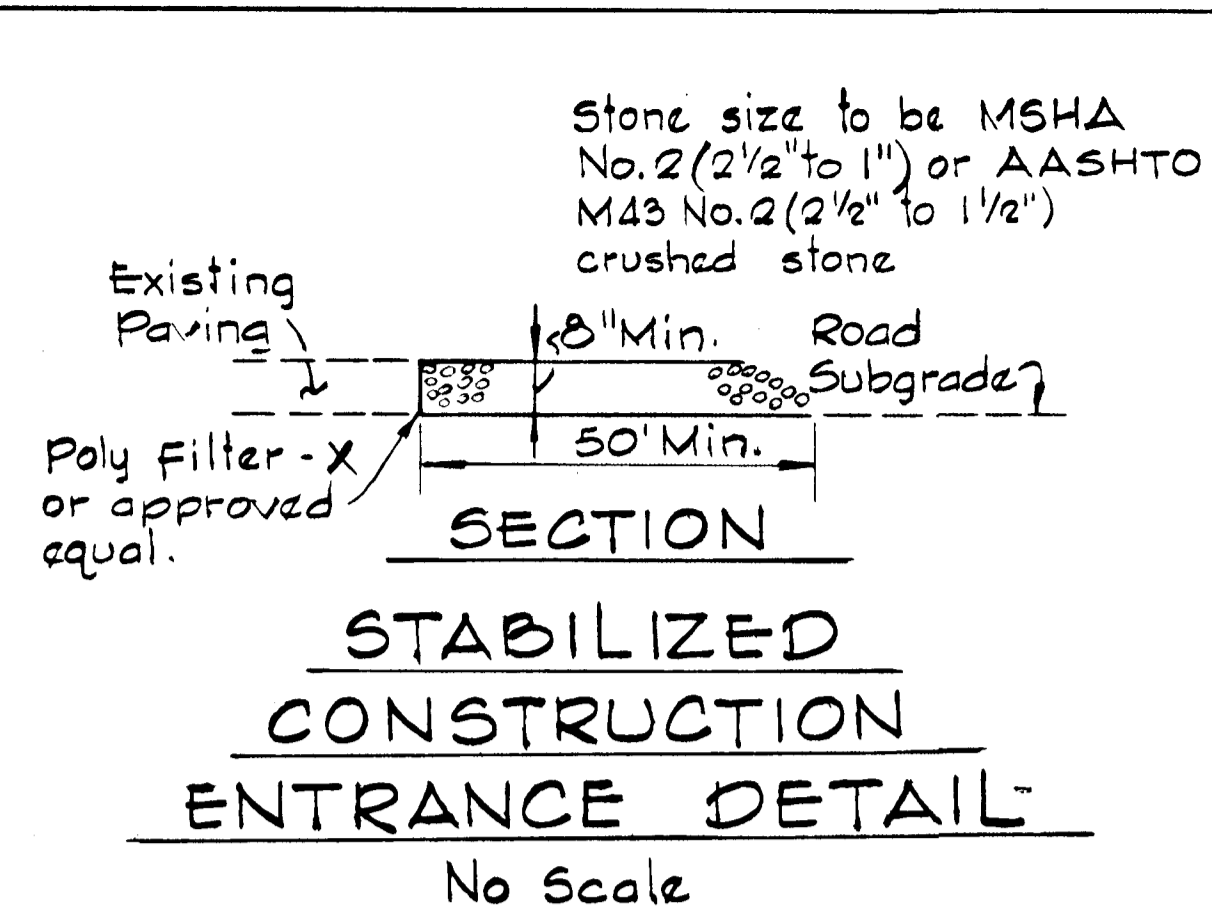
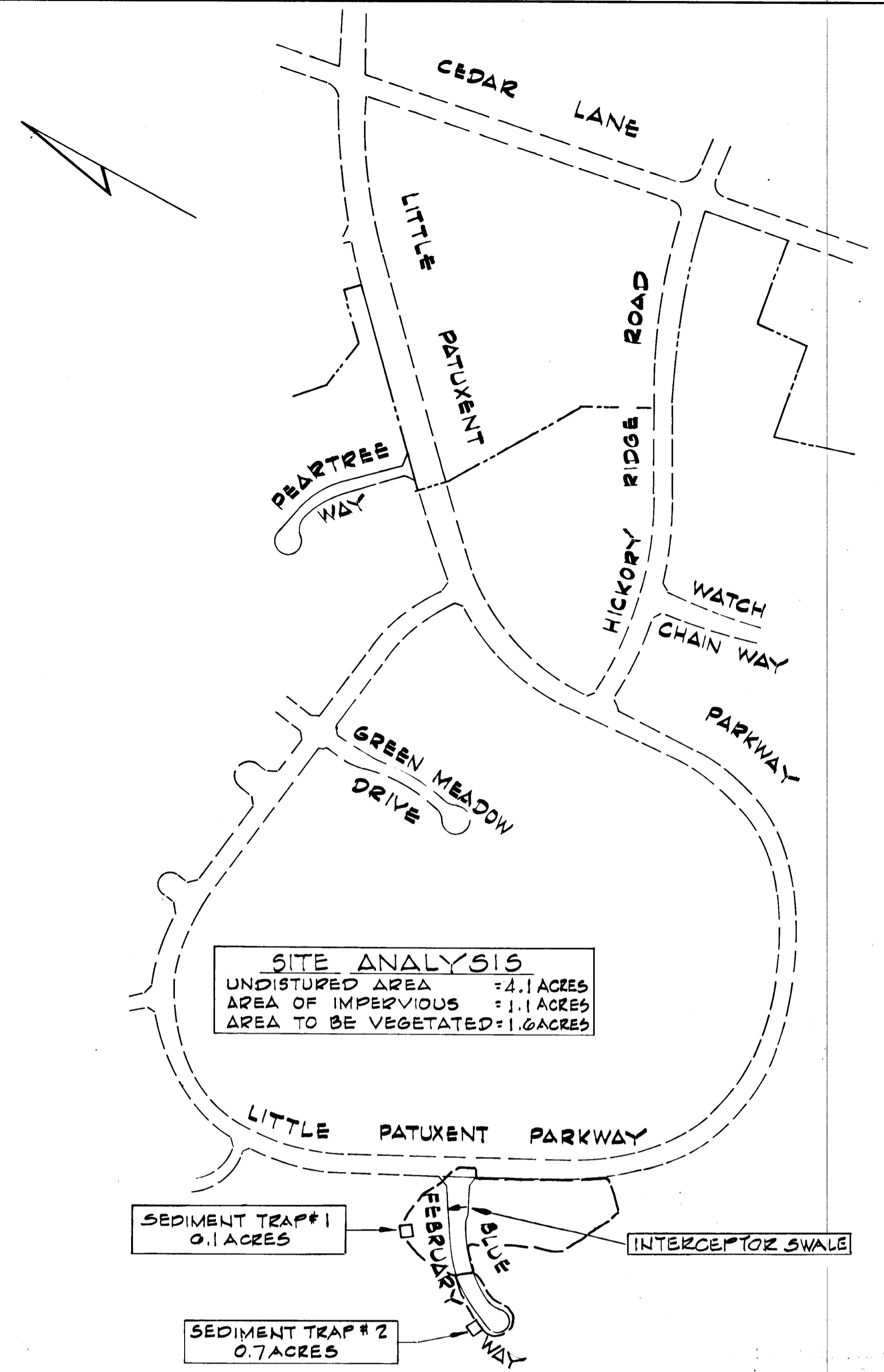
PROJECT TITLE  
 STORM DRAIN DETAILS

SCALE: As Shown DATE:

WHITMAN, REQUARDT AND ASSOCIATES  
 ENGINEERS  
 2315 ST. PAUL STREET  
 BALTIMORE, MARYLAND 21218

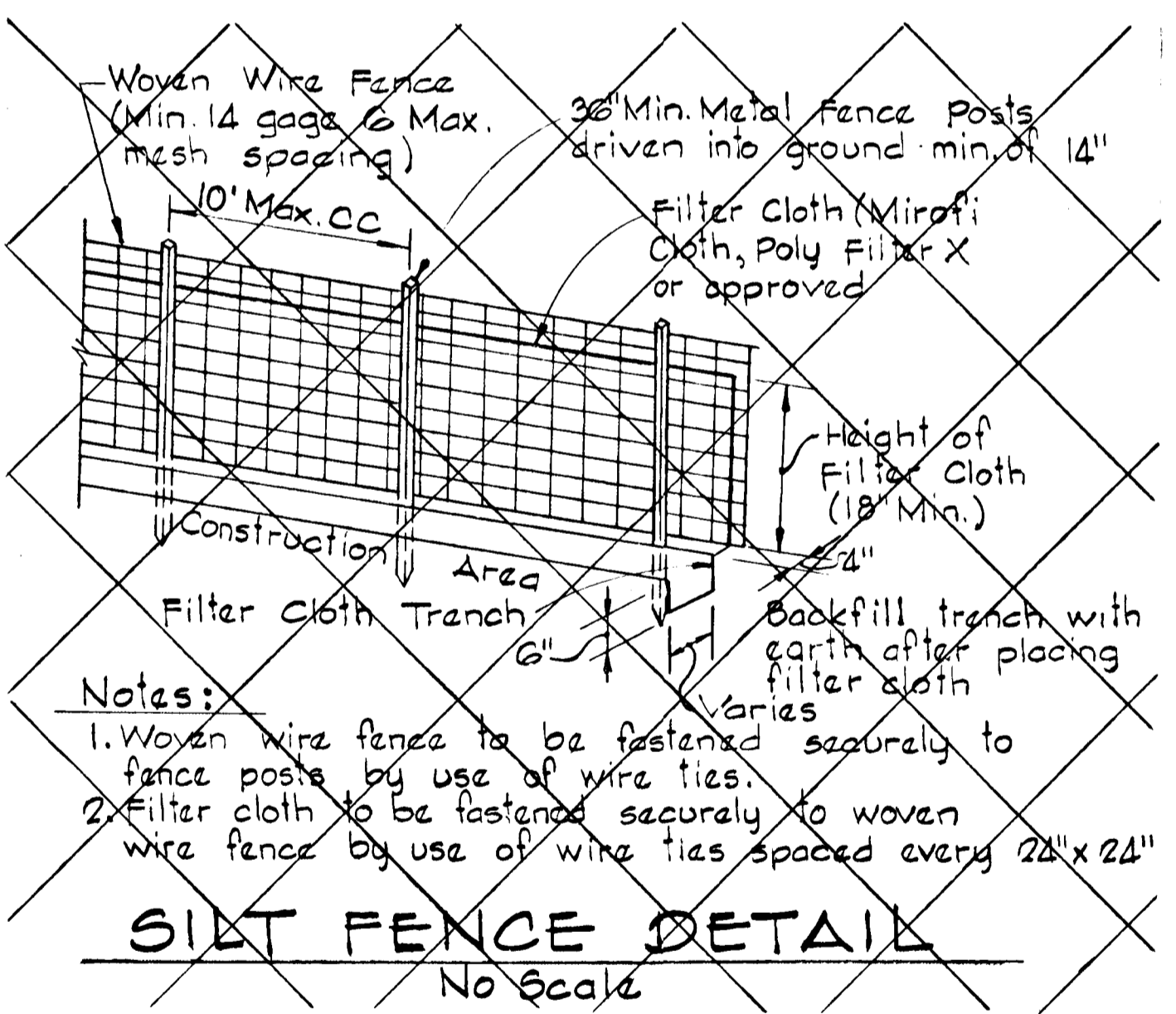
*Kenneth A. McCord*  
 KENNETH A. MCCORD  
 Registered Engineer  
 No. 1974

AS-BUILD SURVEY CERTIFIED BY KENNETH A. MCCORD  
 REG.-P.E. No. 1974 on APRIL 24, 1985

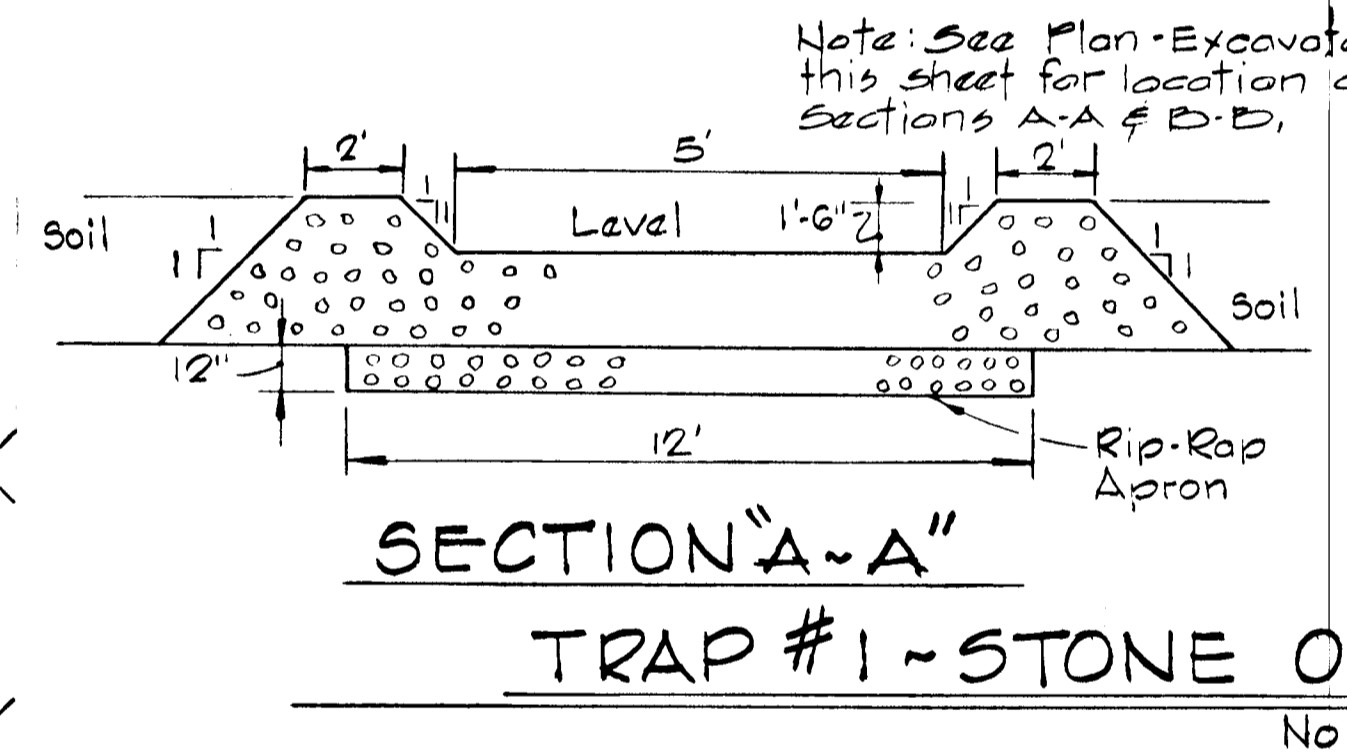


**DRAINAGE AREA MAP**  
 Scale: 1" = 400'

- SEQUENCE OF CONSTRUCTION**
1. Obtain Grading Permit.
  2. Construct stabilized construction entrance on Blue February Way.
  3. Clear and grub limit of construction.
  4. Construct sediment traps and diversion dike.
  5. Stabilize diversion dikes with temporary seeding, see specifications.
  6. Strip and rough grade limits of construction.
  7. Construct all utilities.
  8. Fine grade roads, construct curb and gutter, sidewalks, and seed disturbed areas.
  9. Pave roads.
  10. Remove all sediment control facilities after grass is established in the contributing drainage areas. Stabilize sediment trap removal area, see Permanent Seeding Notes.



- 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% Marion Blue Grass, 55% Creeping Red Fescue, 5% Redtop
- Mulch Required - Mulch area with straw at the rate of 75 lbs/1000 sq ft 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 the rate of 15 lbs/acre or 0.34 lbs./1000 sq ft and Kentucky 31 Tall Fescue at the rate of 40 lbs/acre or 1 lb./1000 sq ft.



- SEDIMENT CONTROL NOTES**
1. See "Sequence of Construction" 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 this sheet.
  4. The temporary sediment control devices shall be hydroseeded, as follows:
    - a. Ground Limestone (50 lbs./1000 sq ft)
    - b. Fertilizer-10-10-10 (25 lbs./1000 sq ft)
    - c. Seed - Italian Ryegrass (40 lbs/acre)
  5. Mulch with straw at the rate of 50 lbs./1000 sq ft 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.

Reviewed for HOWARD S.C.D.  
 And meets technical requirements  
 Date: 2-22-84  
 U.S. SOIL CONSERVATION DISTRICT

This development plan is approved for soil erosion and sediment control by the Howard Soil Conservation District.  
 Approved: [Signature]  
 HOWARD S.C.D. Date: 2-22-84

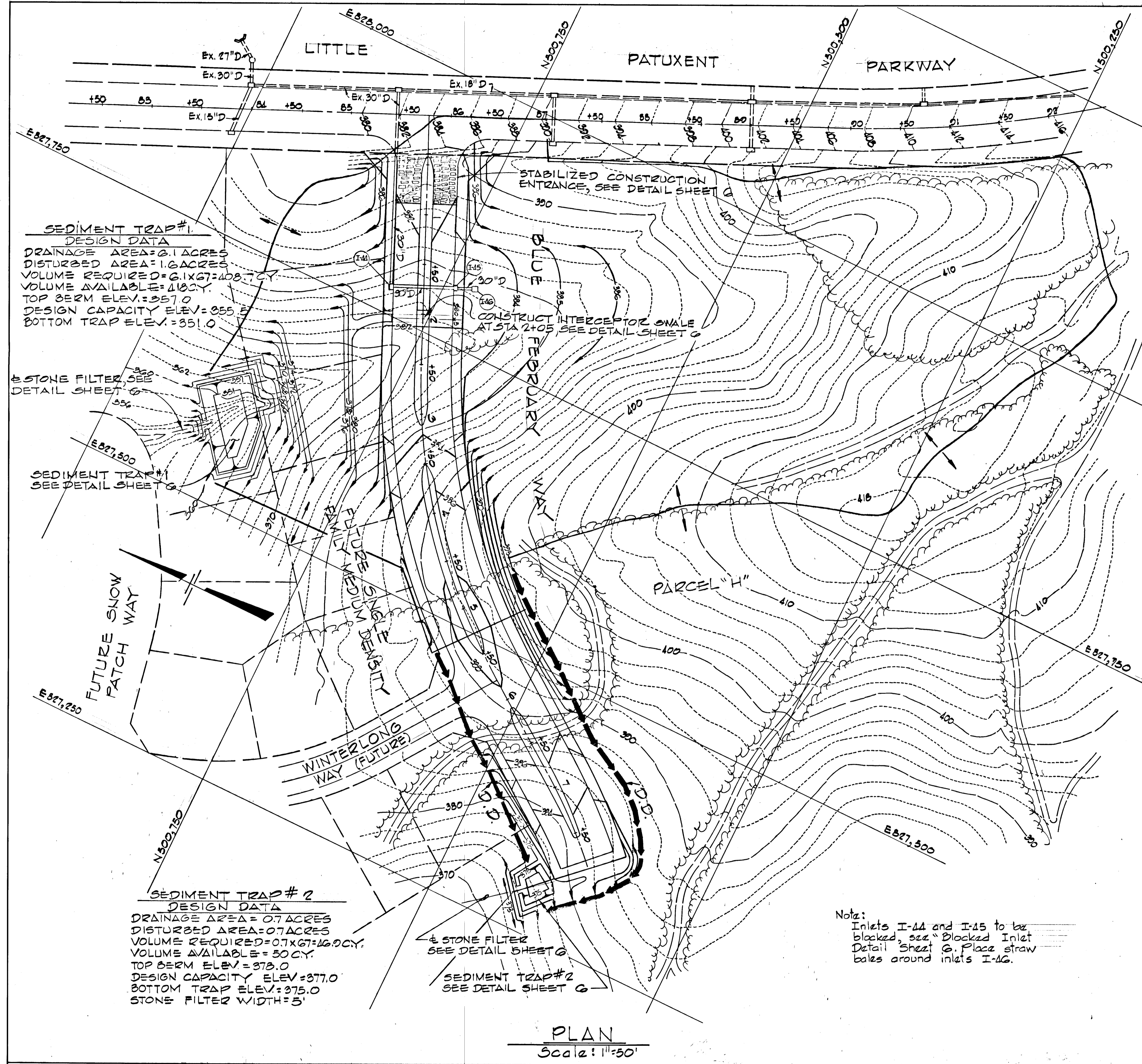
**CERTIFICATION BY THE ENGINEER**  
 "I certify that this plan for erosion and sediment control represents a practical and workable plan based on my personal knowledge of the site conditions and that it was prepared in accordance with the requirements of the Howard Soil Conservation District."  
 Kenneth A. McCord PE 1074  
 Date: 7-23-83

**CERTIFICATION BY THE DEVELOPER**  
 "I certify that all development and/or construction will be done according to these plans of development and erosion and sediment control and that all 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. I also authorize periodic on-site inspection by the Howard Soil Conservation District or their authorize agents, as are deemed necessary."  
 Walter E. Woodford  
 Date: 8-1-83

**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."  
 Kenneth A. McCord  
 Registered Engineer  
 No. 1074  
 Date: 8-1-83

SCALE: AS SHOWN DATE:  
 WHITMAN, REQUARDT AND ASSOCIATES ENGINEERS  
 2315 ST. PAUL STREET BALTIMORE, MARYLAND 21218  
 Kenneth A. McCord  
 Registered Engineer  
 No. 1074





REVIEWED FOR HOWARD S.C.D.

AND MEETS TECHNICAL REQUIREMENTS

*John W. Murchman* 1-22-84  
 DATE

U.S. SOIL CONSERVATION SERVICE

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

APPROVED *John W. Murchman*  
 HOWARD S.C.D. DATE

**CERTIFICATION BY THE DEVELOPER**

"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 DEPARTMENT 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."

*Walter E. Woodford* 8-1-83  
 WALTER E. WOODFORD 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* 1-29-83  
 KENNETH A. MCCORD PE 1074 DATE

REV DATE	REV NO.	REVISION DESCRIPTION
2/13/84	2	As Per DFW and SCS Comments
10/12/83	1	As Per DFW and SCS Comments

COLUMBIA  
 5<sup>th</sup> 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  
 SEDIMENT CONTROL PLAN

SCALE: 1"=50' DATE:

WHITMAN, REQUARDT AND ASSOCIATES  
 ENGINEERS  
 BALTIMORE, MARYLAND 21218

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

AS-BUILD SURVEY CERTIFIED BY KENNETH A. MCCORD  
 REG-RE. No. 1974 ON APRIL 24, 1983