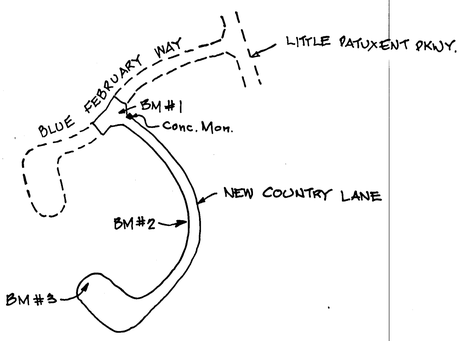


PLAN
No Scale

PLAN SUBJECT TO V.P.

~~BENCH MARK~~
~~B.M. Hickory #54 Elev. 365.538~~
~~R.R. Spike in Base of 30" Poplar~~
~~155' Left of ℄ Station 83+65~~
~~Little Patuxent Parkway~~

BENCH MARKS

B.M. #1 - Square cut in top of inlet slab 32' left of ℄ Sta. 7+96 Blue February Way
Elev. 380.56

B.M. #2 - Cross cut in front flange bolt of fire hydrant 17' right of ℄ Sta. 5+05 New Country Lane
Elev. 390.23

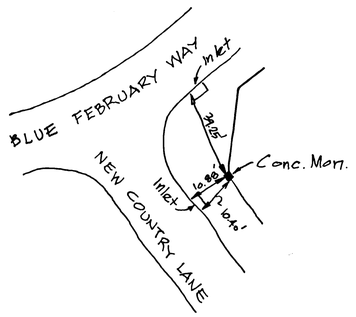
B.M. #3 - Box cut in front corner of inlet slab 14' left of ℄ Sta. 13+35 New Country Lane
Elev. 370.91

COLUMBIA

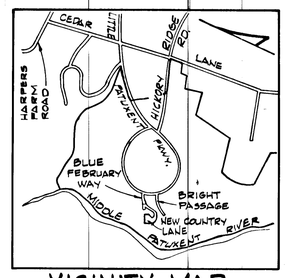
HOWARD COUNTY, MARYLAND
5TH ELECTION DISTRICT

ROAD CONSTRUCTION PLANS
VILLAGE OF HICKORY RIDGE
SECTION 3 AREA 6
LOTS I-1 THRU I-59

SHEET INDEX	
NO.	DESCRIPTION
1	TITLE SHEET
2	PLAN AND PROFILE-BLUE FEBRUARY WAY-STA 7+80 TO STA 9+85.00
3	PLAN AND PROFILE-NEW COUNTRY LANE
4	DRAINAGE AREA MAP
5	STANDARD DETAILS
6	STORM DRAIN PROFILES
7	SEDIMENT CONTROL PLAN
8	SEDIMENT CONTROL DETAILS



MONUMENT
RECOVERY SKETCH
No Scale



VICINITY MAP
Scale: 1" = 2,000'

DEPARTMENT OF PUBLIC WORKS
CHIEF, BUREAU OF ENGINEERING — DATE 6-29-84
OFFICE OF PLANNING AND ZONING
CHIEF, DIVISION OF LAND DEVELOPMENT AND ZONING ADMINISTRATION — DATE 6-26-84

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

Kenneth A. McCord P.E. # 1974

GENERAL NOTES:

1. All work shall be done in accordance with Howard County Standards, specifications and Details for Construction.
2. All utility companies must be notified 24 hours in advance of any construction.
3. Local street is designed for 30 mph speed and cul-de-sac street is designed for 25 mph speed.
4. All inlets shall be Howard County Standard unless otherwise shown. All "A" inlets shall be depressed.
5. Storm drain trenches within road rights-of-ways shall be backfilled and compacted in accordance with Howard County Standards, Specifications and Details for Construction.
6. Any damage to public rights-of-ways or paving will be corrected at the developers expense.
7. 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.
8. The Contractor shall test pit existing utilities where directed by the Engineer a minimum of two weeks in advance of any construction.
9. Contractor to notify the Howard County Dept. of Inspectors and Permits at least 3 days before starting work shown on these drawings. Telephone 992-2436.
10. Provide Street Lights at the following locations:
    a. 250-Watt pendant mounted fixture on a 25 foot bronze pole located at the western corner of Blue February Way and New Country Lane.
    b. 175-Watt post top fixture on a 12 foot bronze pole located at station 4+00± right and station 8+00± right, New Country Lane.
11. (2)-Street Trees (80 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 accomodate field conditions and builder's landscape program. Bond release is contingent upon Section 16.131 of the Howard County Subdivision and Land Development Regulations, as approved by the office of Planning and Zoning.

AS-BUILD SURVEY CERTIFIED BY
KENNETH A. McCORD REG-PE. NO. 1974
ON MARCH. 19, 1984

Rev. Date	Rev. No.	Revision Description
8/6/84	3	Revised Storm Drain M-3 to S-2
6/29/84	2	Added Street Tree Note 11
5/10/84	1	As Per DPW and SCS 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

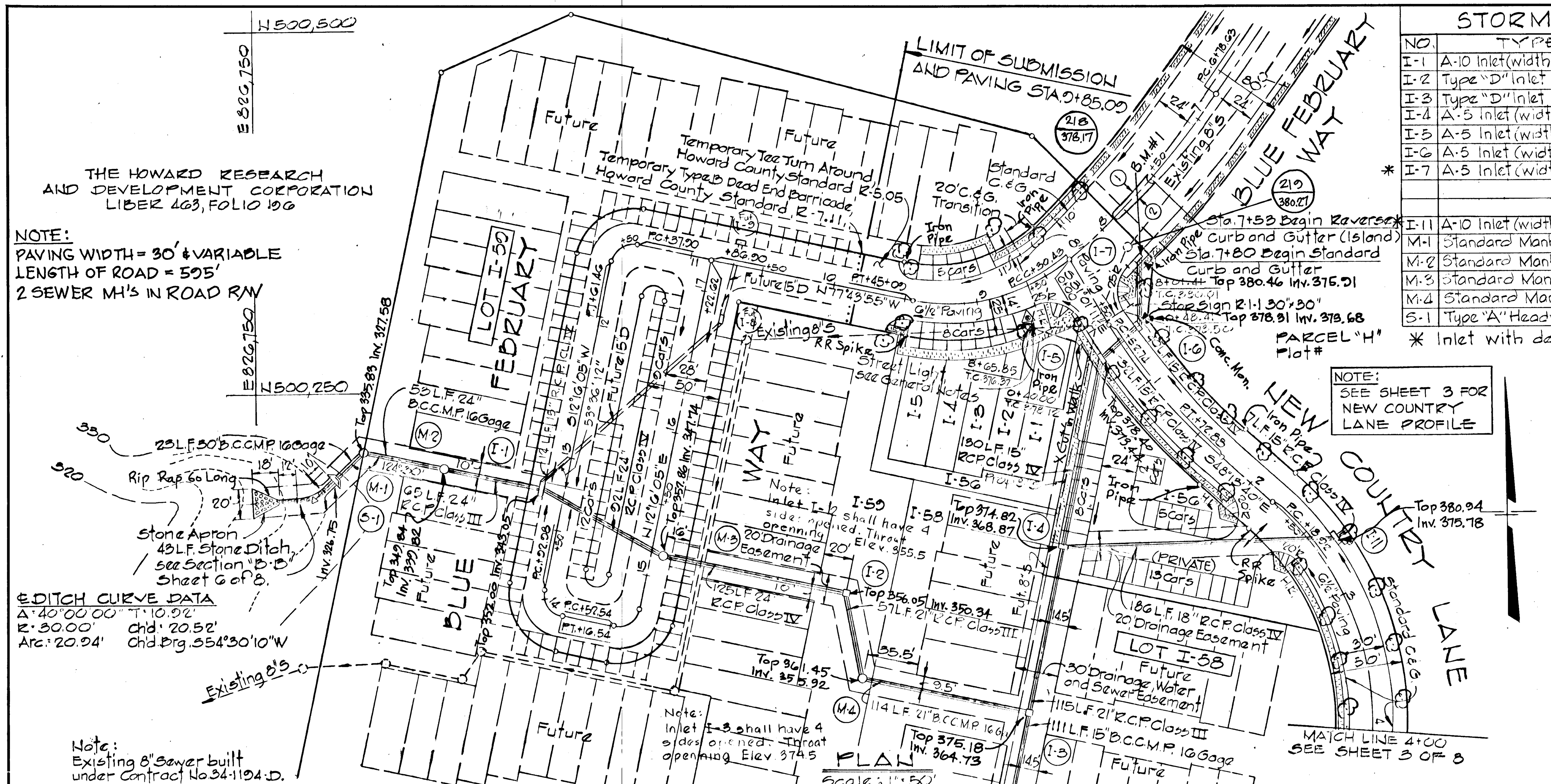
KENNETH A. McCORD
Registered Engineer
No. 1974

5/6/86 — F-84-140 — 3/10/84 — SHEET 1 OF 8

42

THE HOWARD RESEARCH
AND DEVELOPMENT CORPORATION
LIBER 463, FOLIO 196

NOTE:
PAVING WIDTH = 30' & VARIABLE
LENGTH OF ROAD = 595'
2 SEWER MH'S IN ROAD R/W



NOTE: SEE SHEET 3 FOR NEW COUNTRY LANE PROFILE

℄ DITCH CURVE DATA
Δ: 40°00'00" T: 10.92'
R: 30.00' Ch'd: 20.52'
Arc: 20.94' Ch'd Brg. S54°30'10"W

STORM DRAIN STRUCTURE SCHEDULE

NO.	TYPE	TOP EL.	INV. IN.	INV. OUT	LOCATION
I-1	A-10 Inlet (width 3.0') S.D.4.02	351.92	343.15	342.65	℄ Inlet 16.17' Right ℄ Sta. 13+23.80
I-2	Type "D" Inlet S.D. 4.11	356.33	350.91	350.66	See Plan & Profile
I-3	Type "D" Inlet S.D. 4.11	375.33	365.30	364.60	See Plan & Profile
I-4	A-5 Inlet (width 2.5') S.D.4.01	374.60	369.50	369.00	See Plan & Profile
I-5	A-5 Inlet (width 2.5') S.D.4.01	378.40	373.53	373.33	℄ Inlet 16.92' Rt. ℄ Sta. 0+67.59
I-6	A-5 Inlet (width 2.5') S.D.4.01	378.36	373.88	373.68	℄ Inlet 16.92' Lt. ℄ Sta. 0+60.24
I-7 *	A-5 Inlet (width 2.5') S.D.4.01	380.28	—	376.00	℄ Inlet 31.92' Lt. ℄ Sta. 7+96.00
I-11 *	A-10 Inlet (width 2.5') S.D.4.02	380.64	376.10	375.85	℄ Inlet 16.92' Lt. ℄ Sta. 2+65
M-1	Standard Manhole G5.05	335.90	328.75	327.80	See Plan & Profile
M-2	Standard Manhole G5.01	348.50	340.54	340.32	See Plan & Profile
M-3	Standard Manhole G5.01	357.90	348.10	347.95	℄ Manhole 9' Rt. ℄ Sta. 15+15.78
M-4	Standard Manhole G5.05	360.50	355.60	354.71	See Plan & Profile
S-1	Type "A" Headwall S.D.5.11	330.91	326.91	326.83	See Plan & Profile

* Inlet with deflectors

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

Kenneth A. McCord P.E. #1974

N500,250
E828,000

℄ CURVE DATA
BLUE FEBRUARY WAY

P.C. 6+78.63 To P.C.C. 8+30.43
Δ: 14°25'26" T: 76.30'
R: 603.00' Ch'd: 151.40'
Arc: 151.80' Ch'd Brg. S42°28'03"W

P.C.C. 8+30.43 To P.T. 9+45.09
Δ: 52°33'21" T: 61.72'
R: 125.00' Ch'd: 110.68'
Arc: 114.66' Ch'd Brg. S75°59'24"W

P.C. 11+37.90 To P.T. 11+61.46
Δ: 90°00'00" T: 15.00'
R: 15.00' Ch'd: 21.21'
Arc: 23.56' Ch'd Brg. S57°16'05"W

P.C. 13+92.98 To P.T. 14+16.54
Δ: 90°00'00" T: 15.00'
R: 15.00' Ch'd: 21.21'
Arc: 23.56' Ch'd Brg. S32°43'55"E

P.C. 14+52.54 To P.T. 14+76.10
Δ: 90°00'00" T: 15.00'
R: 15.00' Ch'd: 21.21'
Arc: 23.56' Ch'd Brg. N57°16'05"E

MEDIAN CURVE DATA

(1)
Δ: 08°01'34" T: 41.88'
R: 597.00' Ch'd: 83.56'
Arc: 83.63' Ch'd Brg. S39°16'08"W

(2)
Δ: 13°54'42" T: 55.39'
R: 454.00' Ch'd: 109.96'
Arc: 110.23' Ch'd Brg. S42°31'31"W

DEPARTMENT OF PUBLIC WORKS
[signature] 6-29-84
CHIEF, BUREAU OF ENGINEERING DATE

OFFICE OF PLANNING & ZONING
[signature] 6-26-84
CHIEF, DIVISION OF LAND DEVELOPMENT AND ZONING ADMINISTRATION DATE

NOTE: FOR EXISTING BLUE FEBRUARY WAY PLAN AND PROFILE SEE VILLAGE OF HICKORY RIDGE SECTION 3 AREA 6 (F-84-52) CONST. DWGS.

REV. DATE	REV. NO.	REVISION DESCRIPTION
9/17/84	3	Revised S.D. Inverts M1, M2, I-1, M3 & M4
6/29/84	2	Added Street Trees
5/10/84	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 6
LOTS I-1 THRU I-59

PROJECT TITLE
PLAN AND PROFILE
BLUE FEBRUARY WAY
STA. 7+80 TO STA. 9+85.09

SCALE: AS SHOWN DATE:

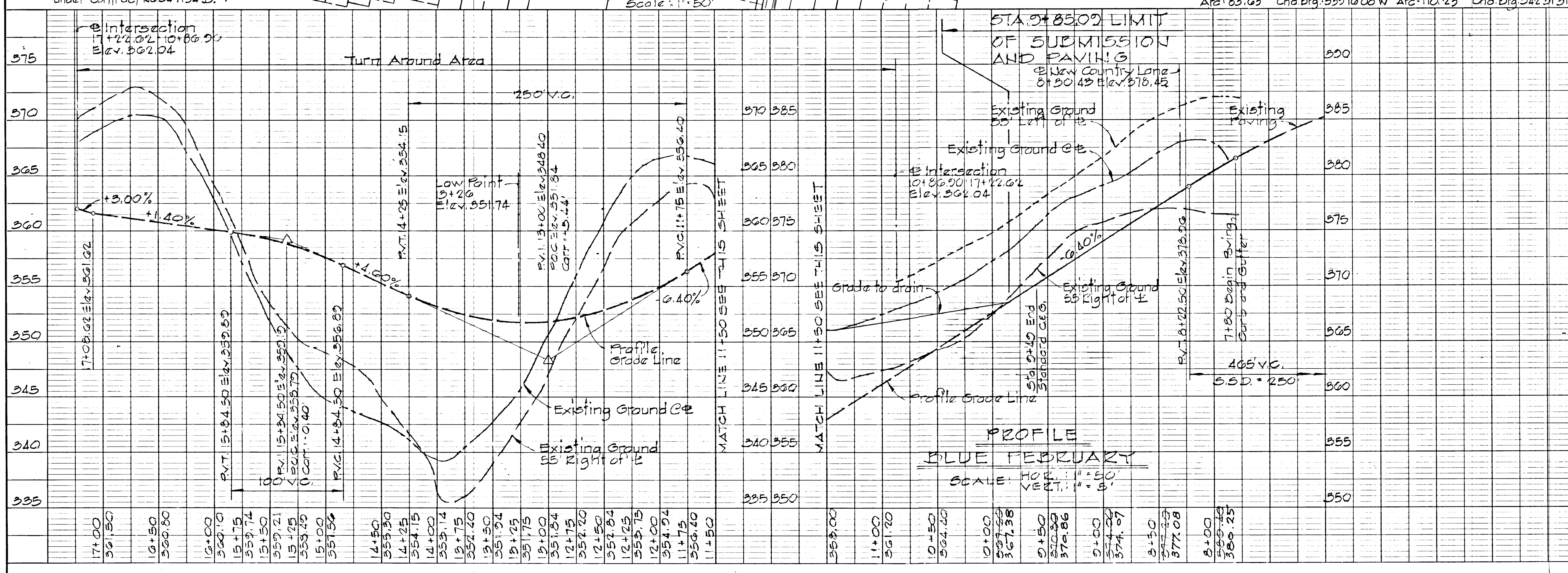
WHITMAN, REQUARDT AND ASSOCIATES
ENGINEERS
BALTIMORE, MARYLAND 21218

[signature]
KENNETH A. McCORD
Registered Engineer
No. 1974

LEGEND

- Publicly Maintained Roadway
- Sidewalk
- Sidewalk (to be built under Developers Agreement)
- Stop Sign R1-1 30"x30"
- Street Light
- H.R. Handicapped Ramp
- Street Trees (27)

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



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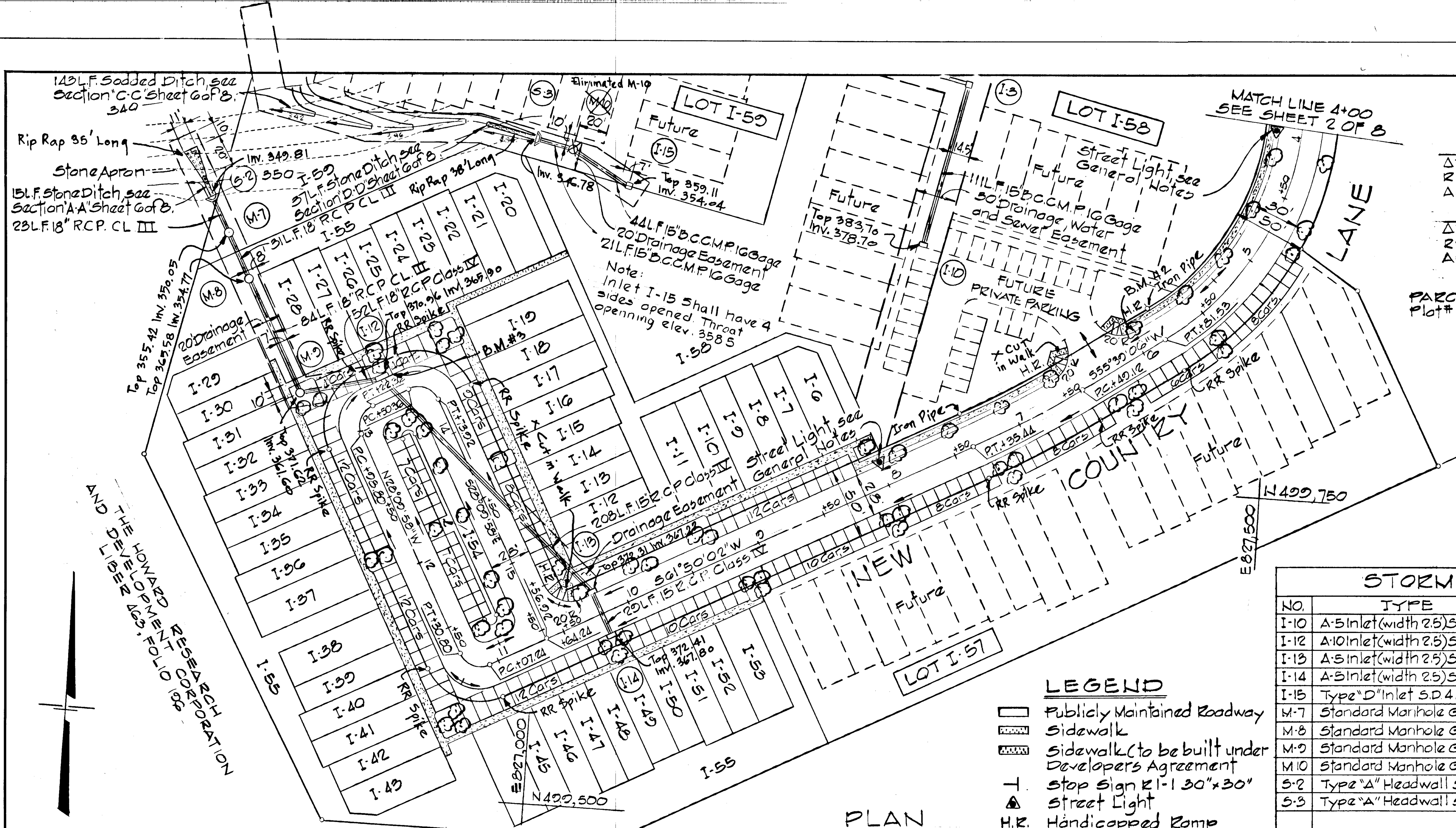
K+E PLATE 1, PLAN-PROFILE KEUFFEL & ESSER CO. 48 7024 Made in U.S.A.

AS BUILT 5/6/86

F-84-140 3/19/84



CURVE DATA
NEW COUNTRY LANE

P.C. 2+18.92 to P.T. 5+81.53
Δ = 103°52'46" Tan. = 255.43'
R = 200.00' Ch'd. = 314.94'
Arc = 362.61' Ch'd Brg. = S03°42'43"W

P.C. 6+49.12 to P.T. 7+35.44
Δ = 06°10'56" Tan. = 43.20'
R = 800.00' Ch'd. 86.28'
Arc = 86.32' Ch'd Brg. = S58°44'34"W

P.C. 11+07.24 to P.T. 11+30.80
Δ = 90°00'00" Tan = 15.00'
R = 15.00' Ch'd = 21.21'
Arc = 23.56' Ch'd. Brg = N73°09'58"W

P.C. 12+98.80 to P.T. 13+22.36
Δ = 90°00'00" Tan. = 15.00'
R = 15.00' Ch'd. = 21.21'
Arc = 23.56' Ch'd. Brg. = N16°50'02"E

P.C. 13+50.36 to P.T. 13+73.92
Δ = 90°00'00" Tan: 15.00'
R = 15.00' Ch'd = 21.21'
Arc = 23.56' Ch'd Brg: S73°09'58"E

P.C. 0+52.74 to P.T. 1+72.88
Δ = 17°12'29" Tan: 60.52'
R = 400.00' Ch'd: 119.68'
Arc = 120.14' Ch'd. Brg. S39°37'26"E

NOTE:
PAVING WIDTH = 28' & 30'
LENGTH OF ROAD = 1,157'
0 SEWER MH'S IN ROAD R/W

STORM DRAIN STRUCTURE SCHEDULE

NO.	TYPE	TOP EL.	INV. IN	INV. OUT	LOCATION
I-10	A-5 Inlet (width 2.5') S.D. 4.01	383.50	——	379.06	See Plan and Profile
I-12	A-10 Inlet (width 2.5') S.D. 4.02	370.96	365.75	364.47	℄ Inlet 15.92' Left ℄ Sta. 13+36.78
I-13	A-5 Inlet (width 2.5') S.D. 4.01	372.28	367.49	367.29	℄ Inlet 15.92' Right ℄ Sta. 10+20
I-14	A-5 Inlet (width 2.5') S.D. 4.01	372.22	——	367.65	℄ Inlet 15.92' Left ℄ Sta. 10+20
I-15	Type "D" Inlet S.D. 4.11	359.33	——	354.25	See Plan and Profile
M-7	Standard Manhole G5.05	355.30	350.48	350.01	See Plan and Profile
M-8	Standard Manhole G5.01	366.00	355.31	354.77	See Plan and Profile
M-9	Standard Manhole G5.01	371.50	361.88	361.41	See Plan and Profile
M-10	Standard Manhole G5.05	353.30	349.56	349.36	See Plan and Profile
S-2	Type "A" Headwall S.D. 5.11	352.70	349.70	349.68	See Plan and Profile
S-3	Type "A" Headwall S.D. 5.11	352.25	349.25	349.23	See Plan and Profile

LEGEND

- Publicly Maintained Roadway
- Sidewalk
- Sidewalk (to be built under Developers Agreement)
- ⊣ Stop Sign R1-1 30"x30"
- ▲ Street Light
- H.R. Handicapped Ramp
- Street Trees (59)

PLAN
Scale: 1"=50'

PROFILE
NEW COUNTRY LANE

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

DEPARTMENT OF PUBLIC WORKS

[signature] 6-29-84
CHIEF, BUREAU OF ENGINEERING DATE

OFFICE OF PLANNING & ZONING

[signature] 6-26-84
CHIEF, DIVISION OF LAND DEVELOPMENT AND ZONING ADMINISTRATION DATE

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

Kenneth A. McCord P.E. # 1974

REV. DATE	REV. NO.	REVISION DESCRIPTION
9/17/84	4	Revised S.D. Inverts M-7, M-8, M-9
8/6/84	3	Revised Storm Drain from M-9 to S-2
6/27/84	2	Added Street Trees
5/10/84	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 6
LOTS I-1 THRU I-59

PROJECT TITLE
PLAN AND PROFILE
NEW COUNTRY LANE

SCALE: AS SHOWN DATE:

WHITMAN, REQUARDT AND ASSOCIATES
ENGINEERS
BALTIMORE, MARYLAND 21218

[signature]
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	
NOTE BOOK	SURVEYED
No.	PLOTTED
	ALIGNMENT CHECKED
	RT. OF WAY CHECKED

PROFILE	
NOTE BOOK	SURVEYED
No.	PLOTTED
	GRADES CHECKED
	B. M.'s NOTED
	STRUCTURE NOTATIONS CHECKED

42

K+E PLATE 1, PLAN-PROFILE KEUFFEL & ESSER CO.
48 7024 Made in U.S.A.

5/6/86 AS BUILT F-84-140 3/19/84 SHEET 3 OF 8

DEPARTMENT OF PUBLIC WORKS

CHIEF, BUREAU OF ENGINEERING — DATE 3-23-84

OFFICE OF PLANNING & ZONING

CHIEF, DIVISION OF LAND DEVELOPMENT AND ZONING ADMINISTRATION — DATE 6-26-84

N500,500 E826,750 E827,000 E827,250 E827,500

N500,000

N499,750

N499,500

E827,000 E827,250 E827,500 E827,750

FUTURE OPEN SPACE

FUTURE OPEN SPACE

PARCEL "H"

BLUE FEBRUARY LANE

NEW COUNTRY LANE

THE HOWARD RESEARCH AND DEVELOPMENT CORPORATION
LIBER 463, FOLIO 106

REVDATE	REV.NO.	REVISION DESCRIPTION
3/10/84	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 6
LOTS I-1 THRU I-50

PROJECT TITLE

DRAINAGE AREA MAP

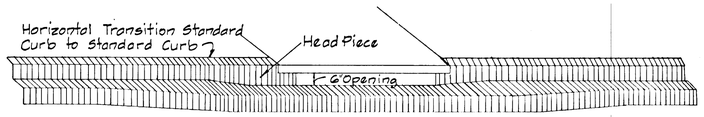
SCALE: 1" = 50' DATE:

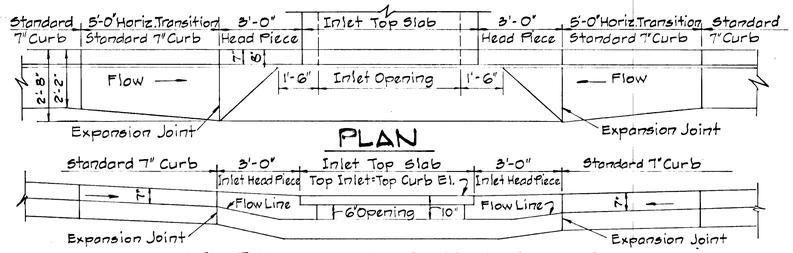
WHITMAN, REQUARDT AND ASSOCIATES
ENGINEERS
BALTIMORE, MARYLAND 21218

KENNETH A. McCORD
Registered Engineer
No. 10774

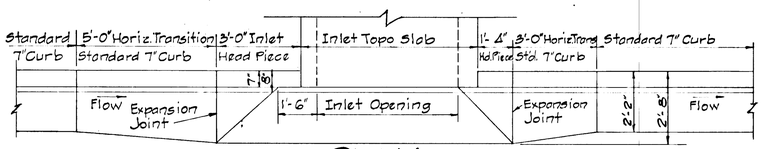
42

F-84-140 3/10/84 SHEET 4 OF 8

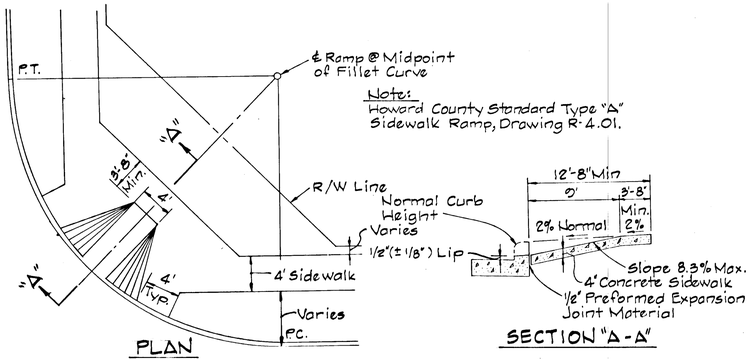




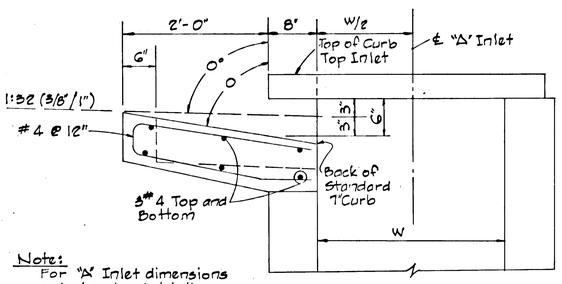
SECTION ALONG FLOW LINE
SUMPED "A" INLETS – STANDARD CURB



SECTION ALONG FLOW LINE
"A" INLETS – STANDARD CURB



WHEEL CHAIR RAMP DETAIL
No Scale



SECTION "A" INLET – STANDARD CURB
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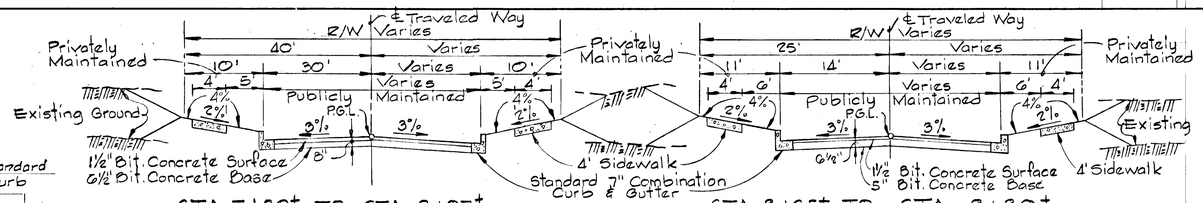

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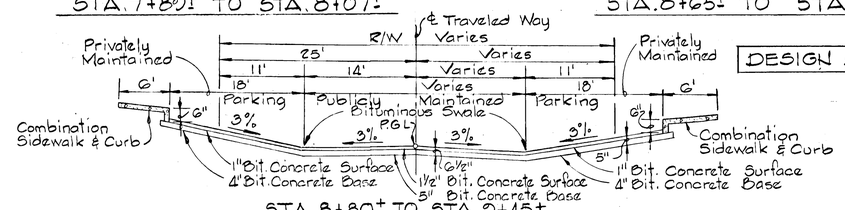
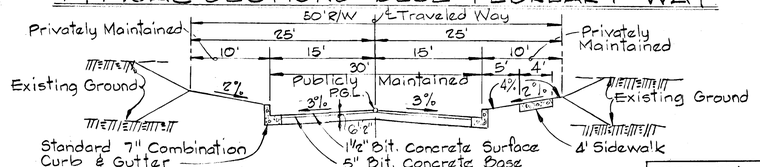


TYPICAL SECTIONS – BLUE FEBRUARY WAY



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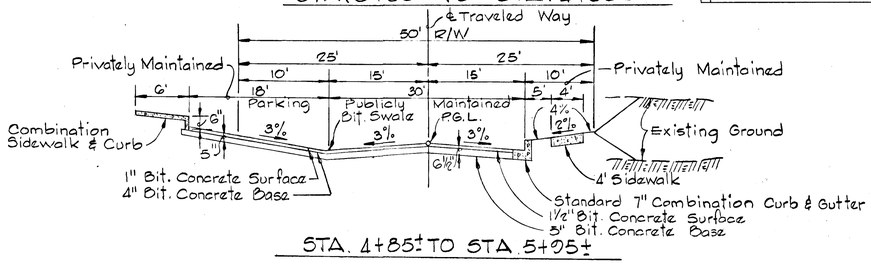
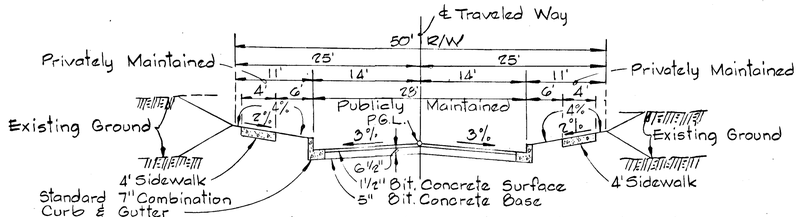
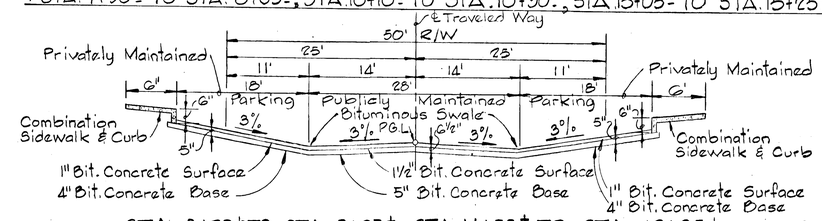
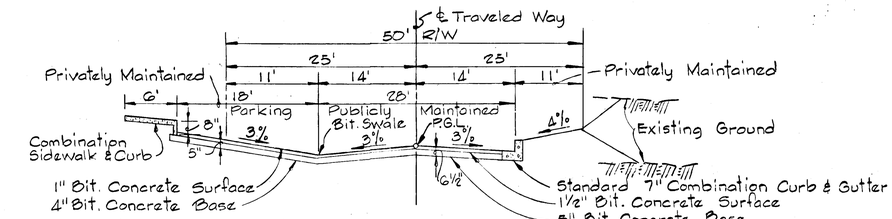
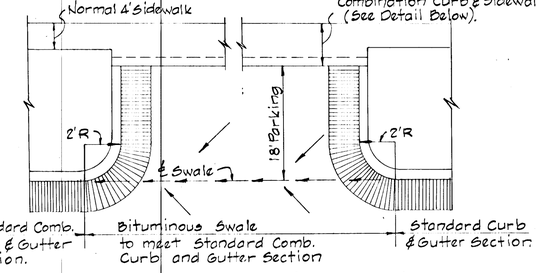




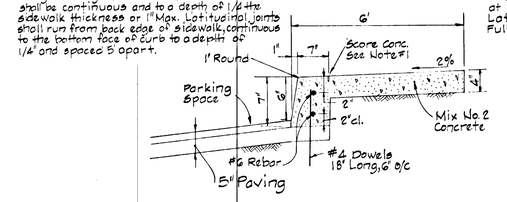




TYPICAL SECTIONS – NEW COUNTRY LANE
No Scale



CURB GUTTER TRANSITION DETAIL
No Scale



MONOLITHIC CURB & SIDEWALK
PRIVATE PARKING AREA
No Scale

ROADWAY CONSTRUCTION NOTES

1. All materials and construction methods shall be in accordance with the Howard County Standard Specifications and Details for Construction.
2. Standard 7" Comb. Curb and Gutter shall be in accordance with County Standard Detail R-3.01.
* 3. Paving (5") shall be in accordance with County Detail R-2.01 (Paving Section P-1).
* 4. Paving (6½") shall be in accordance with County Standard Detail R-2.01 (Paving Section P-2).
5. Sidewalks shall be in accordance with County Standard Detail R-3.05.
6. Base will be primed in accordance with Article 33.04 of the Howard County Standard Specifications.
7. Tack coat is required in accordance with the Howard County Standard Specifications.
* 8. Paving (8") shall be in accordance with County Standard Detail R-2.01 (Paving Section P-3).
* 9. Granular Base Alternates may be substituted at the option of the Developer.

DEPARTMENT OF PUBLIC WORKS
CHIEF, BUREAU OF ENGINEERING — DATE 6-29-84
OFFICE OF PLANNING AND ZONING
CHIEF, DIVISION OF LAND DEVELOPMENT AND ZONING ADMINISTRATION — DATE 6/28/84

Rev. Date	Rev. No.	Revision Description
5/10/84	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 6
LOTS I-1 THRU I-59

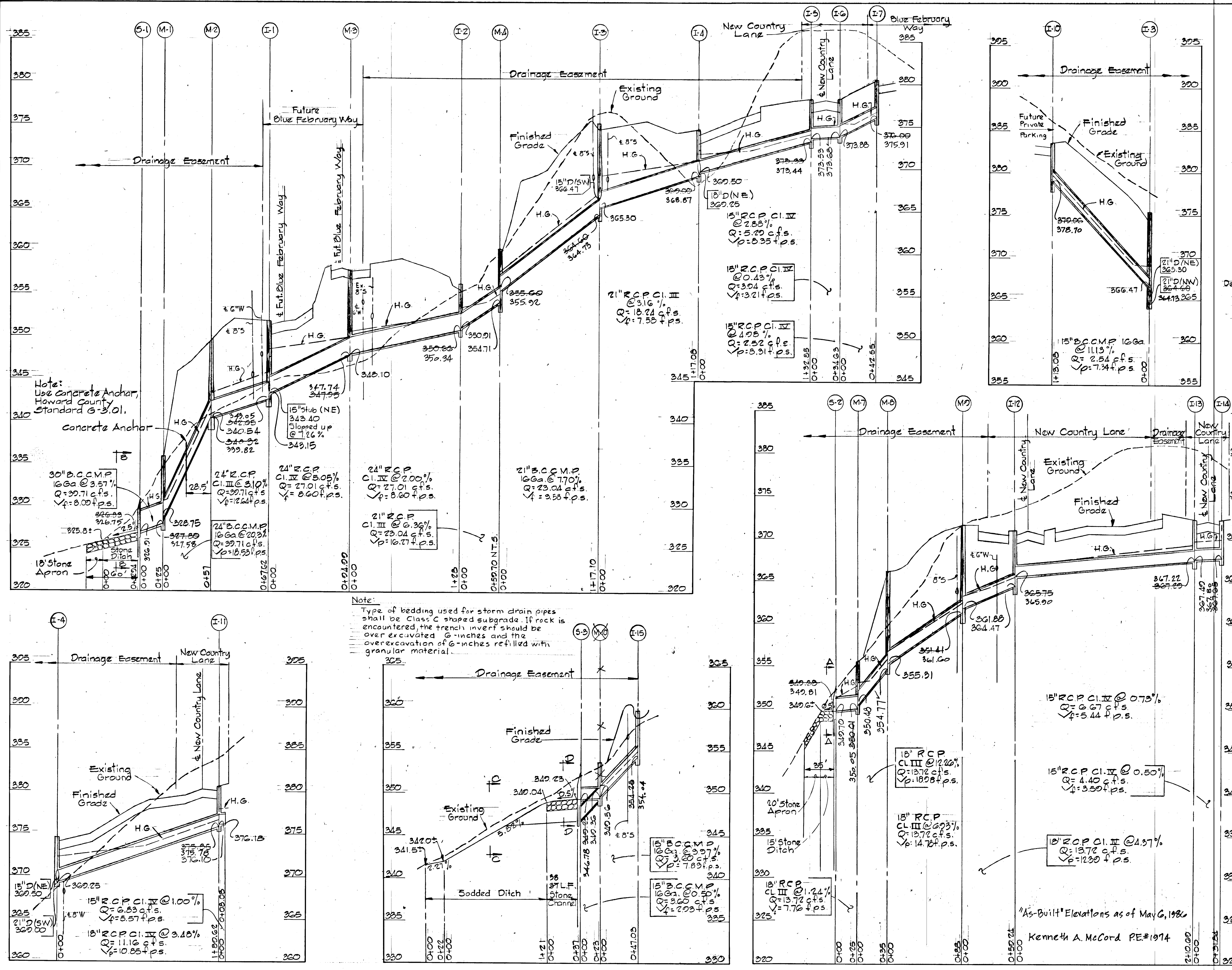
PROJECT TITLE
STANDARD DETAILS

SCALE: AS SHOWN — DATE:

WHITMAN, REQUARDT & ASSOCIATES
ENGINEERS
BALTIMORE, MARYLAND 21218

KENNETH A. McCORD
Registered Engineer
No. 10742

F-84-740 — 3/19/84 — SHEET 5 OF 8

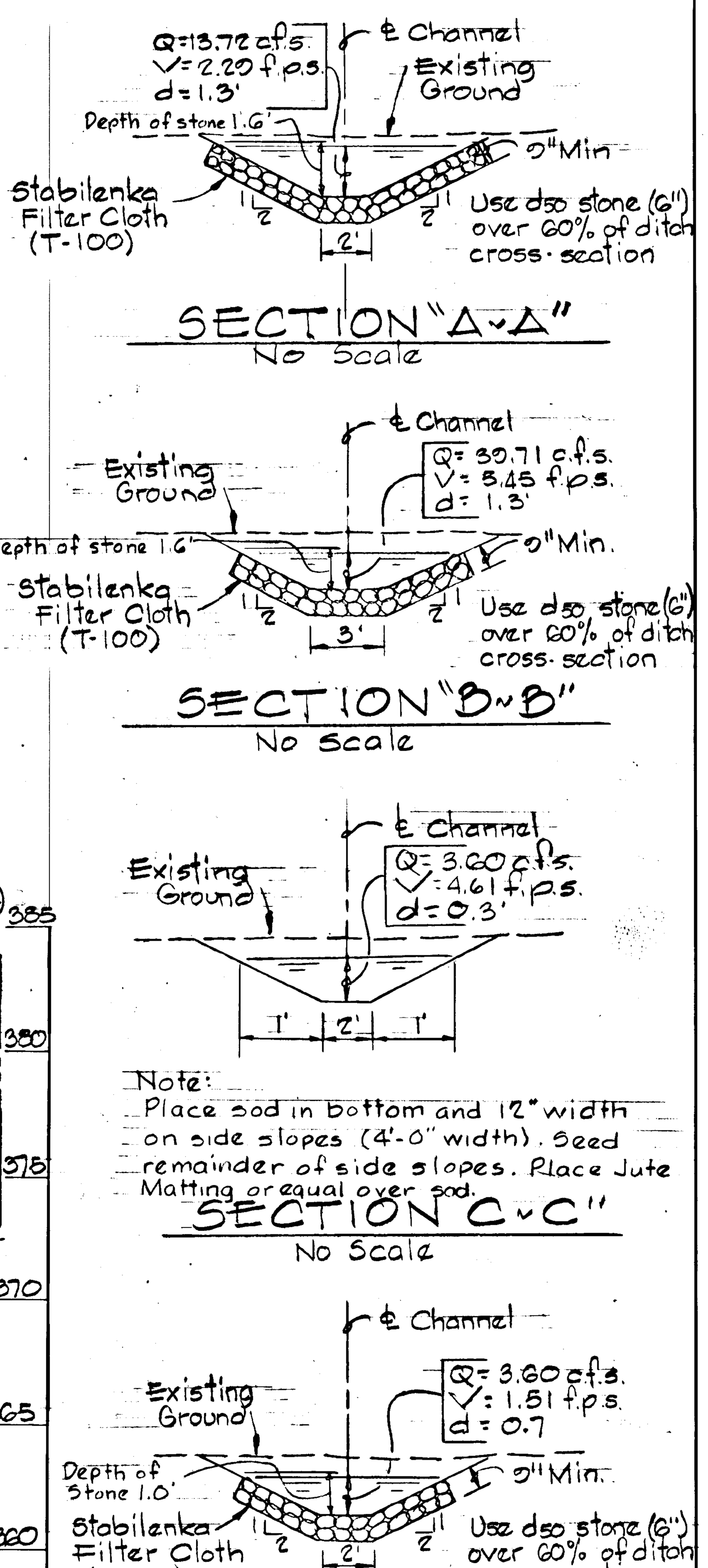


DEPARTMENT OF PUBLIC WORKS

CHIEF, BUREAU OF ENGINEERING — DATE 6-29-84

OFFICE OF PLANNING & ZONING

CHIEF, DIVISION OF LAND DEVELOPMENT AND ZONING ADMINISTRATION — DATE 6/26/84



AS-BUILD SURVEY CERTIFIED BY KENNETH A. McCORD REG. P.E. NO 1974 ON MARCH 18, 1987

Rev.Date	Rev.No.	Revision Description
9/17/84	4	Revised S.D. between M1-M3, M4-I3, M7-I12
8/29/84	3	Added Concrete Anchor between M1 & M2
8/6/84	2	Revised Storm Drain from M-9 to S-2
5/10/84	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 6
LOTS I-1 THRU I-50

PROJECT TITLE
STORM DRAIN PROFILES

SCALE: As Shown DATE:

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

KENNETH A. McCORD
Registered Engineer
No. 1974

42

5/6/86 AS-BUILT F-84-140 3/19/84 SHEET 6 OF 8

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/1000 ф 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 20 lbs/acre or 0.46 lbs./1000 ф and Kentucky 31 Tall Fescue at the rate of 40 lbs/acre or 1 lb./1000 ф.

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 ф)
   b. Fertilizer - 10-10-10 (25 lbs/1000 ф)
   c. Seed - Italian Rye Grass (40 lbs/acre)
5. Mulch with straw at the rate of 50 lbs/1000 ф 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.

SEQUENCE OF CONSTRUCTION

1. Obtain Grading Permit.
2. Install stabilized Construction Entrance on Blue February Way.
3. Construct Sediment Basin Embankment and Principal Spillway. See initial sediment basin construction details on Sheet 8 of 8. Construct Diversion Dikes, Silt Fences and Stone Outlet Structures.
4. Stabilize Diversion Dikes with temporary seeding, see specifications this sheet.
5. Clear and grub entire site.
6. Strip entire site. Rough grade entire site except the three proposed buildings in and adjacent to the Sediment Basin. Stockpile suitable excavation material in building areas adjacent to Sediment Basin, see Plan. During site grading the contractor shall maintain positive drainage into Sediment Basin. When storm drain is constructed (see temporary drain into basin) runoff will be directed to the basin via the storm drain.
7. Construct temporary 24" C.M.P. and storm drain systems M-2 to I-11 and S-2 to I-14. Place stone filters at inlets I-12, I-13 and I-14.
8. Construct utilities, housing, curb and gutter and streets for Lots I-1 thru I-53.
9. Fine grade and construct sidewalks.
10. Stabilize all disturbed areas with permanent seeding, see specifications this sheet.
11. Remove Diversion Dike, Stone Outlet Structure and Silt Fence behind Lots I-31 thru I-53.

DEPARTMENT OF PUBLIC WORKS

CHIEF, BUREAU OF ENGINEERING — DATE 6-29-84

OFFICE OF PLANNING & ZONING

CHIEF, DIVISION OF LAND DEVELOPMENT AND ZONING ADMINISTRATION — DATE 6-26-84

REV. DATE	REV. NO.	REVISION DESCRIPTION
4/16/84	1	As per 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 6
LOTS I-1 THRU I-53

PROJECT TITLE
SEDIMENT CONTROL PLAN

SCALE: 1" = 50' DATE:

WHITMAN, REQUARDT AND ASSOCIATES
ENGINEERS
BALTIMORE, MARYLAND 21218

KENNETH A. McCORD
Registered Engineer
No. 1974

SITE ANALYSIS

AREA OF IMPERVIOUS	- 3.2 ACRES
AREA TO BE VEGETATED	- 11.2 ACRES
UNDISTURBED AREA	- 4.1 ACRES

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 — DATE 3.20.84

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 — DATE 3.19.84

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

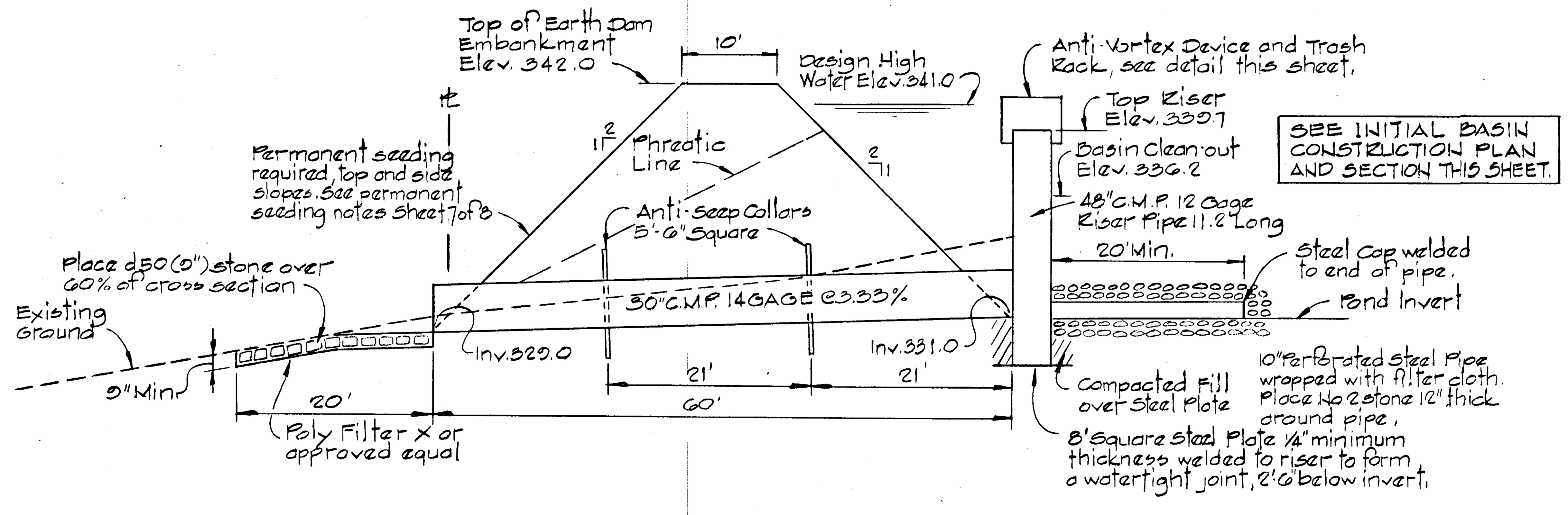
APPROVED — HOWARD S.C.S. DISTRICT

REVIEWED FOR HOWARD S.C.D. AND MEETS TECHNICAL REQUIREMENTS

U.S. SOIL CONSERVATION SERVICE — DATE 6-19-84

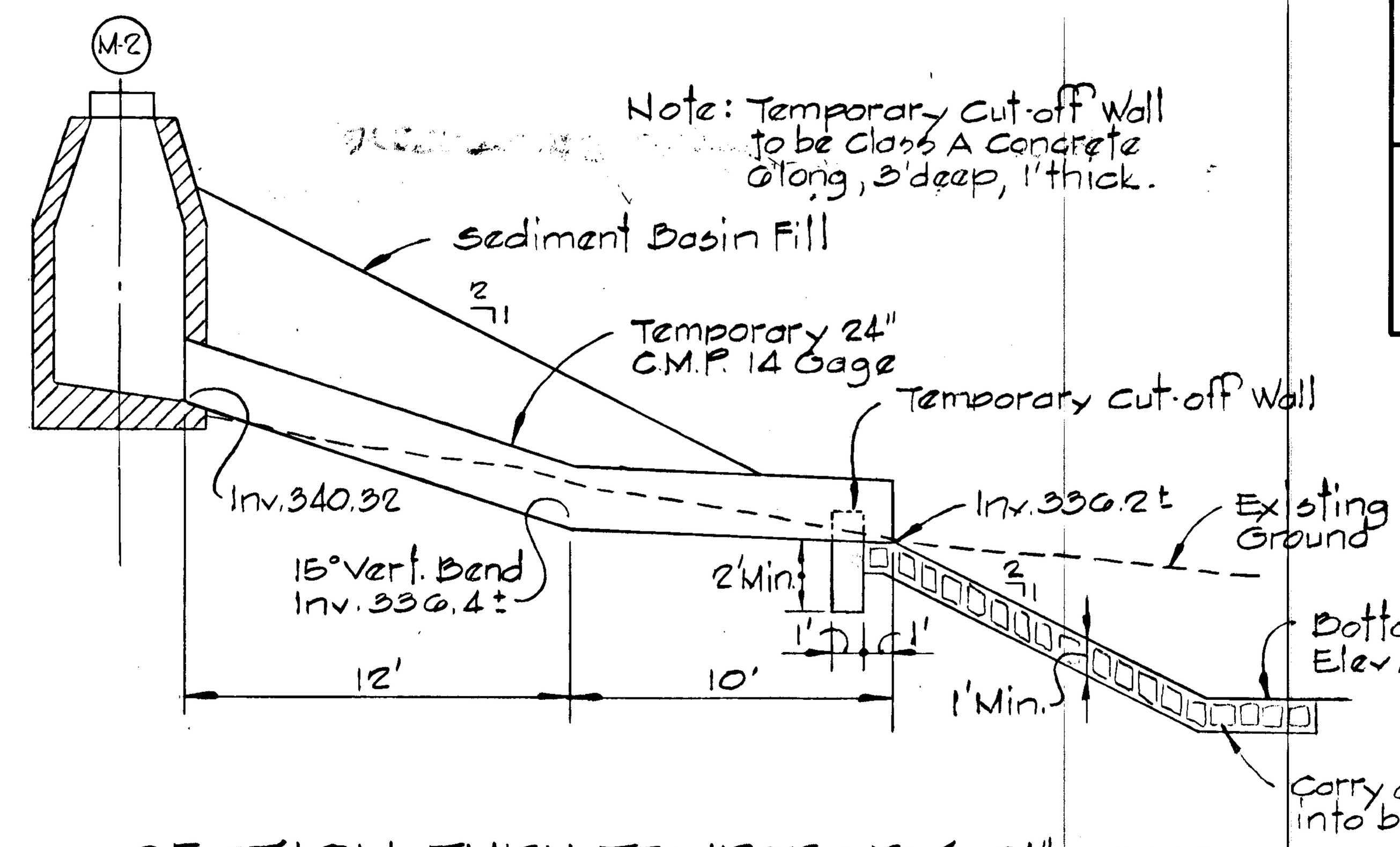
42

F-84-140   3/19/84   SHEET 7 OF 8



SECTION THRU DAM @ 30" C.M.P.

No Scale



SECTION THRU TEMPORARY 24" C.M.P.

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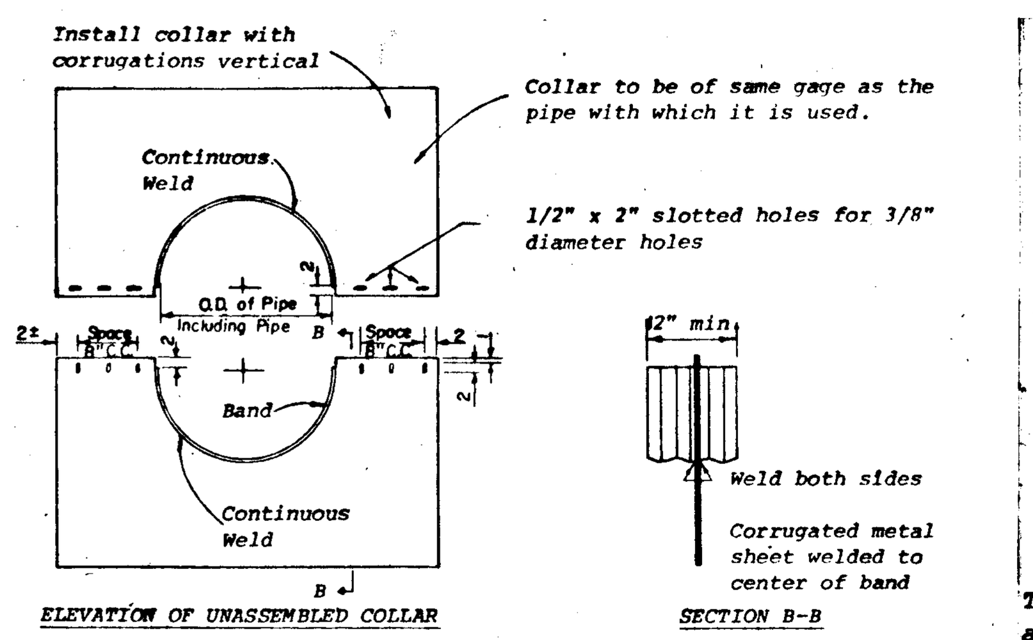
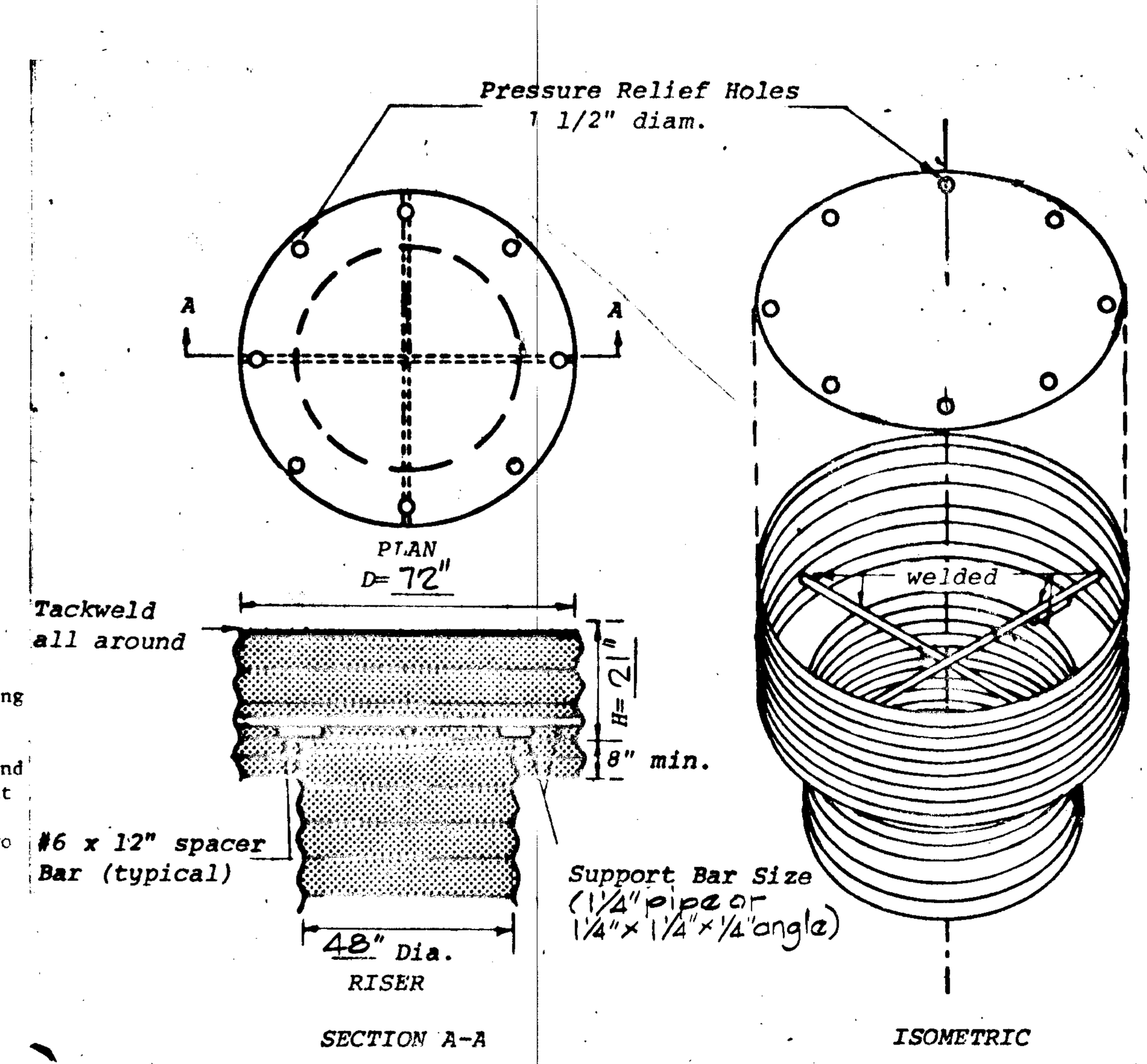


NOTES FOR COLLARS:

1. All materials to be in accordance with construction and construction material specifications.
2. When specified on the plans, coating of collars shall be in accordance with construction and construction material specifications.
3. Unassembled collars shall be marked by painting or tagging to identify matching pairs.
4. The lap between the two half sections and between the pipe and connecting band shall be caulked with asphalt mastic at time of installation.
5. Each collar shall be furnished with two 1/2" diameter rods with standard tank lugs for connecting collars to pipe.

CORRUGATED METAL ANTI-SEEP COLLAR

No Scale



Top is 10 gage corrugated metal or 1/8" steel plate. Pressure relief holes may be ommitted, if ends of corrugations are left fully open when corrugated top is welded to cylinder.

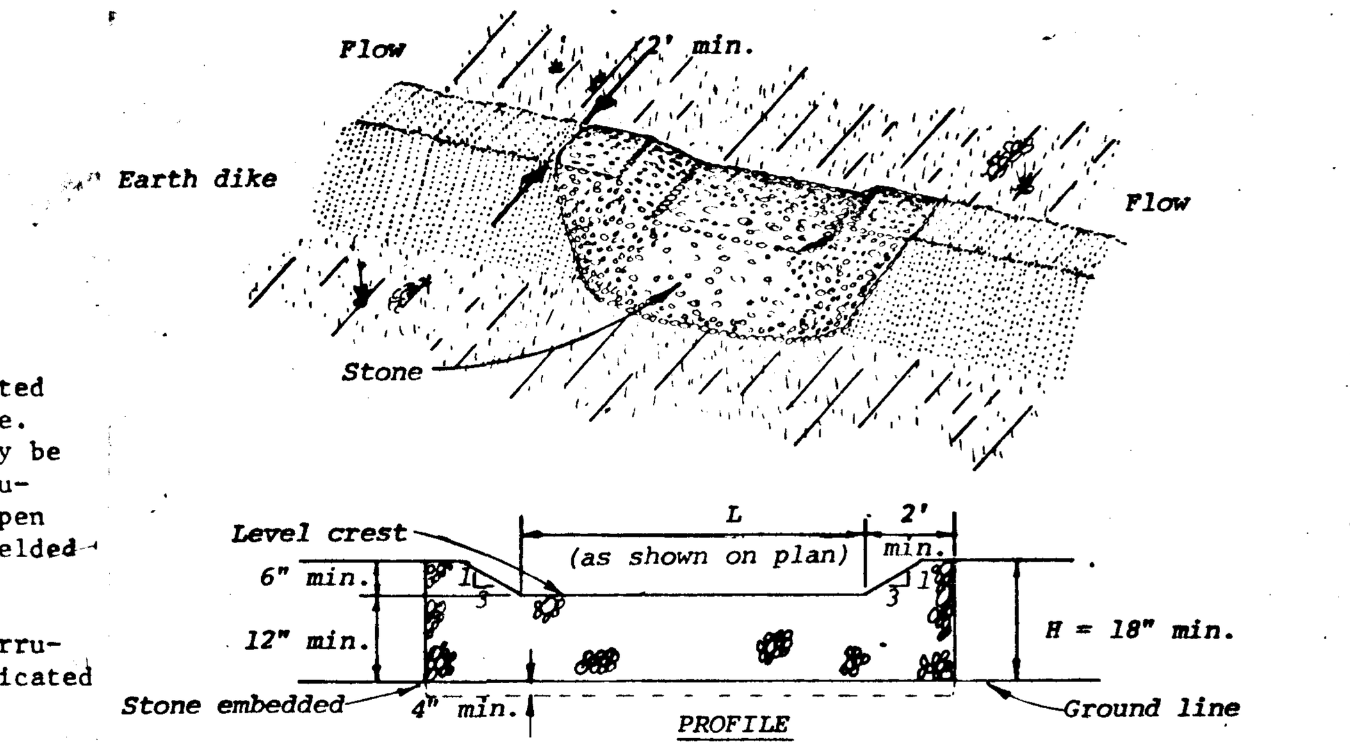
Cylinder is 12 gage corrugated metal pipe or fabricated from 1/8" steel plate.

Notes:

1) The cylinder must be firmly fastened to the top of the riser.
2) Support bars are welded to the top of the riser or attached by straps bolted to top of riser.

ANTI-VORTEX DEVICE AND TRASH RACK

No Scale



Construction Specifications

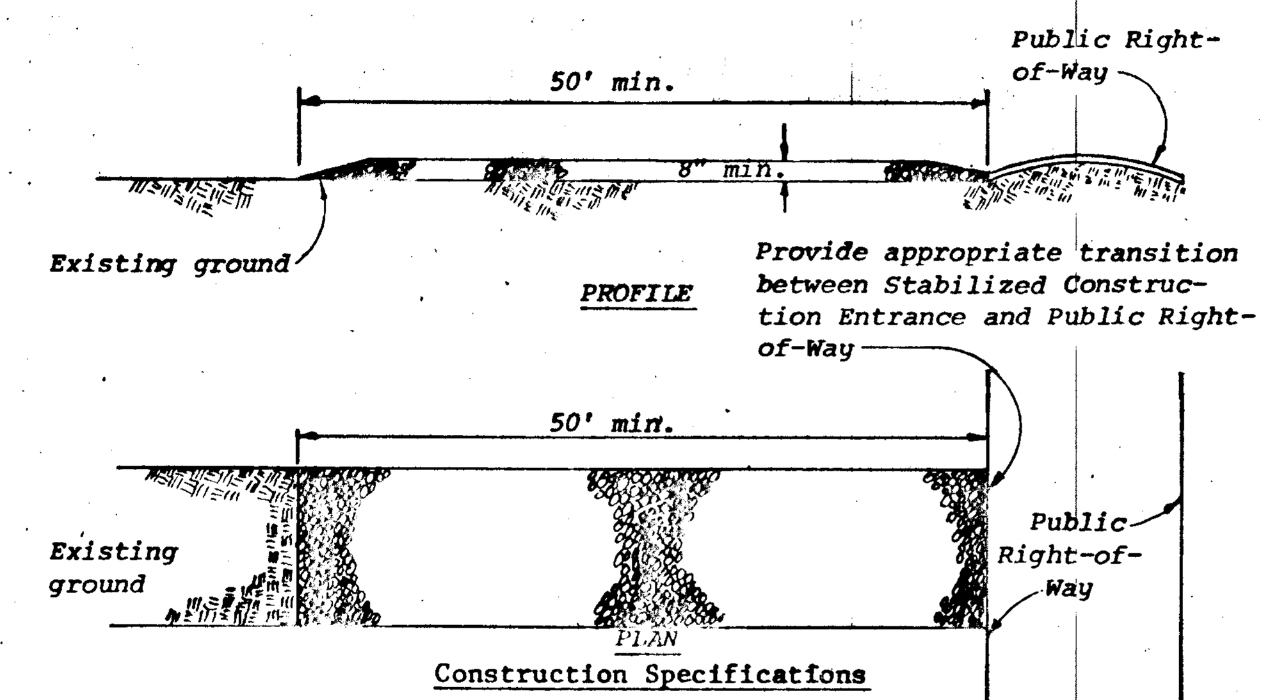
1. The stone shall be crushed stone. Gravel may be used if crushed stone is not available. The stone shall meet MSHA Size No. 2 or AASHTO designation M43 Size No. 2 or 24.
2. The crest of the stone dike shall be at least six inches lower than the lowest elevation of the top of the earth dike and shall be level.
3. The stone outlet structure shall be embedded into the soil a minimum of four inches.
4. The minimum length, in feet, of the crest of the stone outlet structure shall be equal to six times the number of acres of contributing drainage area.
5. The stone outlet structure shall be inspected after each rain, and the stone shall be replaced when the structure ceases to function as intended due to silt accumulation among the stone, washout, construction traffic damage, etc.

Standard Symbol SOS L =

* Drainage area less than 5 acres

STONE OUTLET STRUCTURE

No Scale



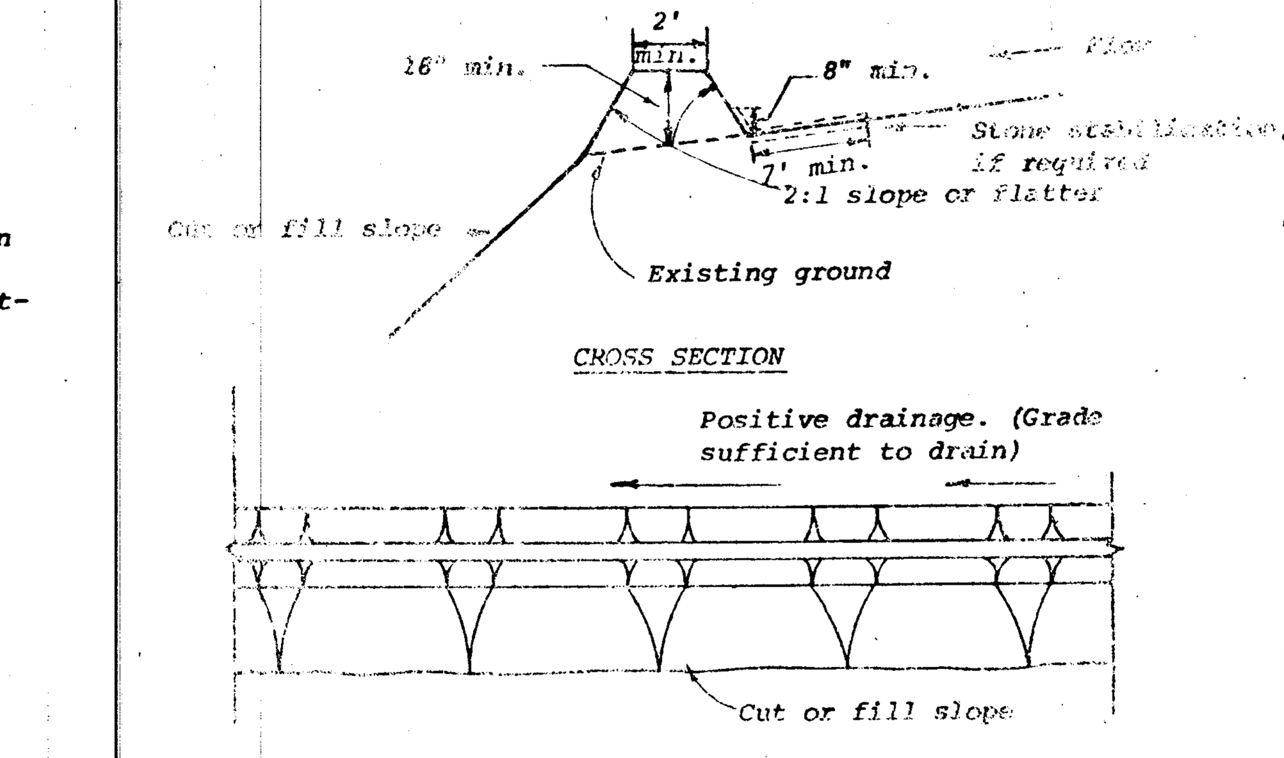
Construction Specifications

1. Stone size - Use MSHA size No. 2 (2-1/2" to 1") or AASHTO designation M43, size No. 2 (2-1/2" to 1-1/2"). Use crushed stone.
2. Length - As effective, but not less than 50 feet.
3. Thickness - Not less than eight (8) inches.
4. Width - Not less than full width of all points of ingress or egress.
5. Washing - When necessary, wheels shall be cleaned to remove sediment prior to entrance onto public right-of-way. When washing is required, it shall be done on an area stabilized with crushed stone which drains into an approved sediment trap or sediment basin. All sediment shall be prevented from entering any storm drain, ditch, or watercourse through use of sand bags, gravel, boards or other approved methods.
6. 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 cleanout of any measures used to trap sediment. All sediment spilled, dropped, washed or tracked onto public rights-of-way must be removed immediately.

Standard Symbol SCE

STABILIZED CONSTRUCTION ENTRANCE

No Scale



Construction Specifications.

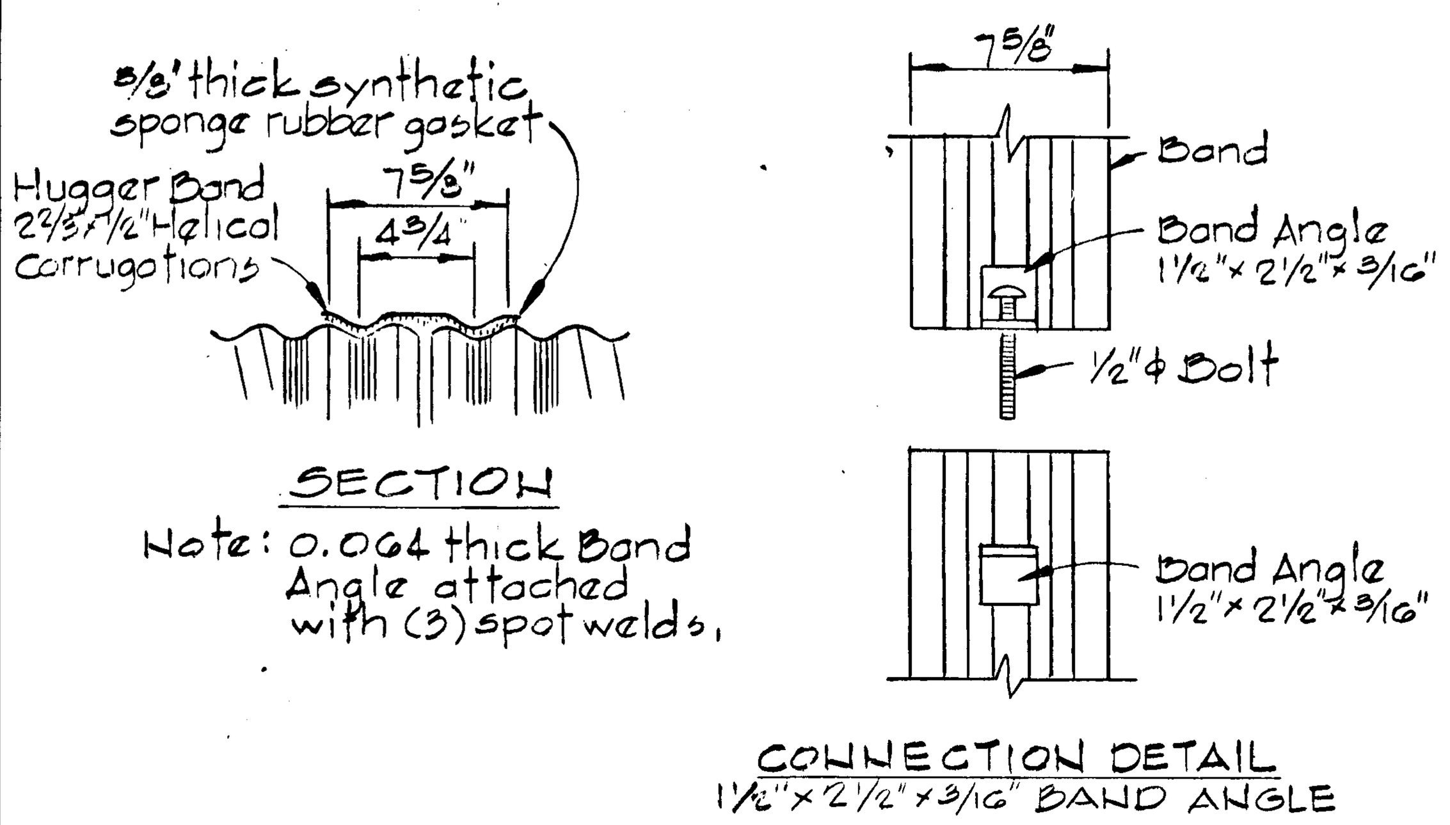
1. All dikes shall be machine compacted.
2. All diversion dikes shall have positive drainage to an outlet.
3. A. Diverted runoff from a protected or stabilized area shall outlet directly to an undisturbed stabilized area or into a level spreader or grade stabilization structure.
   B. Diverted runoff from a disturbed or exposed upland area shall be conveyed to a sediment trapping device such as a sediment trap or a sediment basin or to an area protected by any of these practices.
4. Stabilization, as specified by the plans, shall be: (1) in accordance with Standard and Specifications for Grassed Waterway, and the area to be stabilized shall be the channel (flow area); or (2) the flow area shall be lined with stone that meets MSHA size No. 2 or AASHTO M43 size No. 2 or 24 which is placed in a 3 inch thick layer and pressed into the soil. The area covered by the stone shall be as shown on the drawing above.
5. Periodic inspection and required maintenance shall be provided.

Standard Symbol DD

* Drainage area less than 5 acres

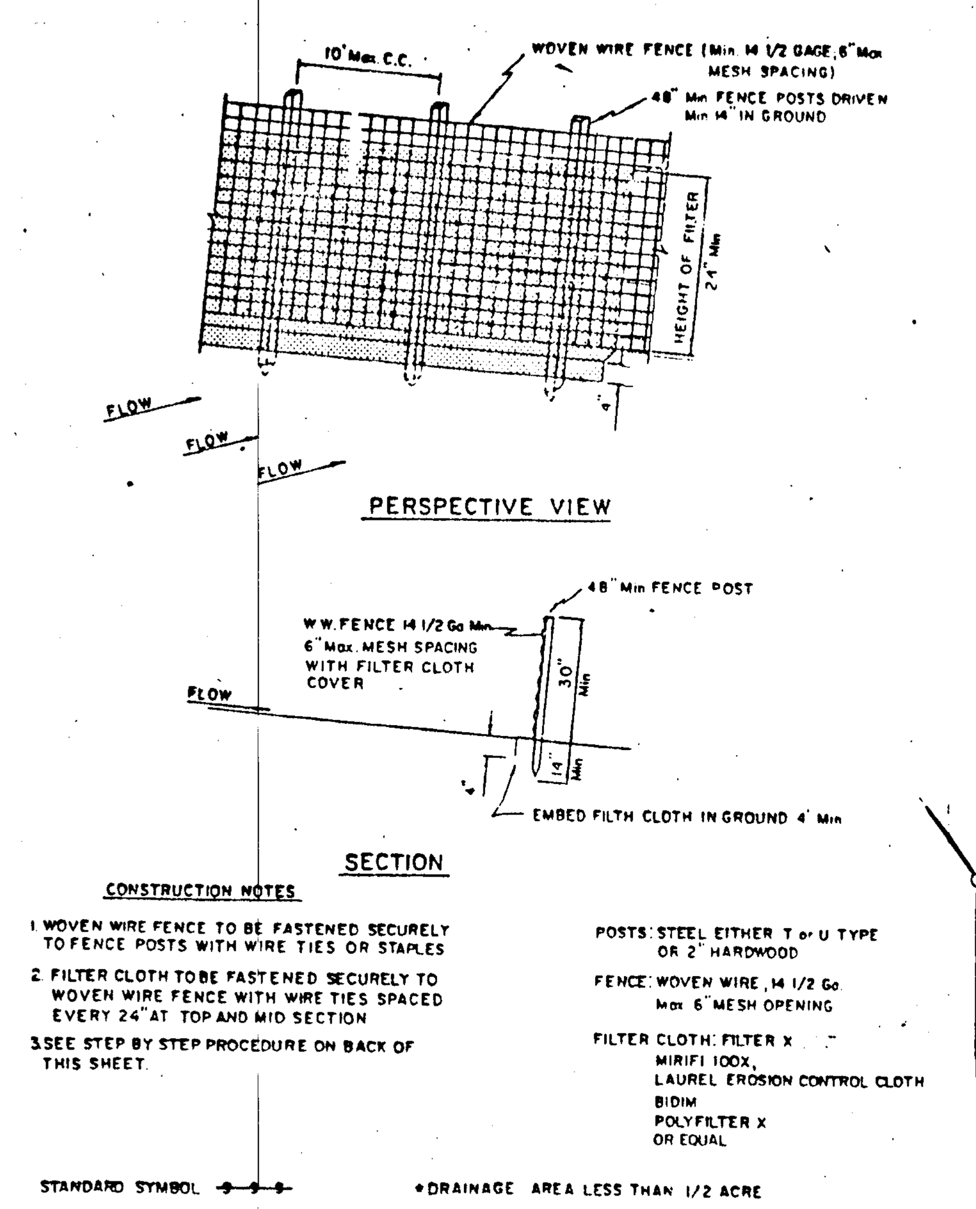
DIVERSION DIKE

No Scale



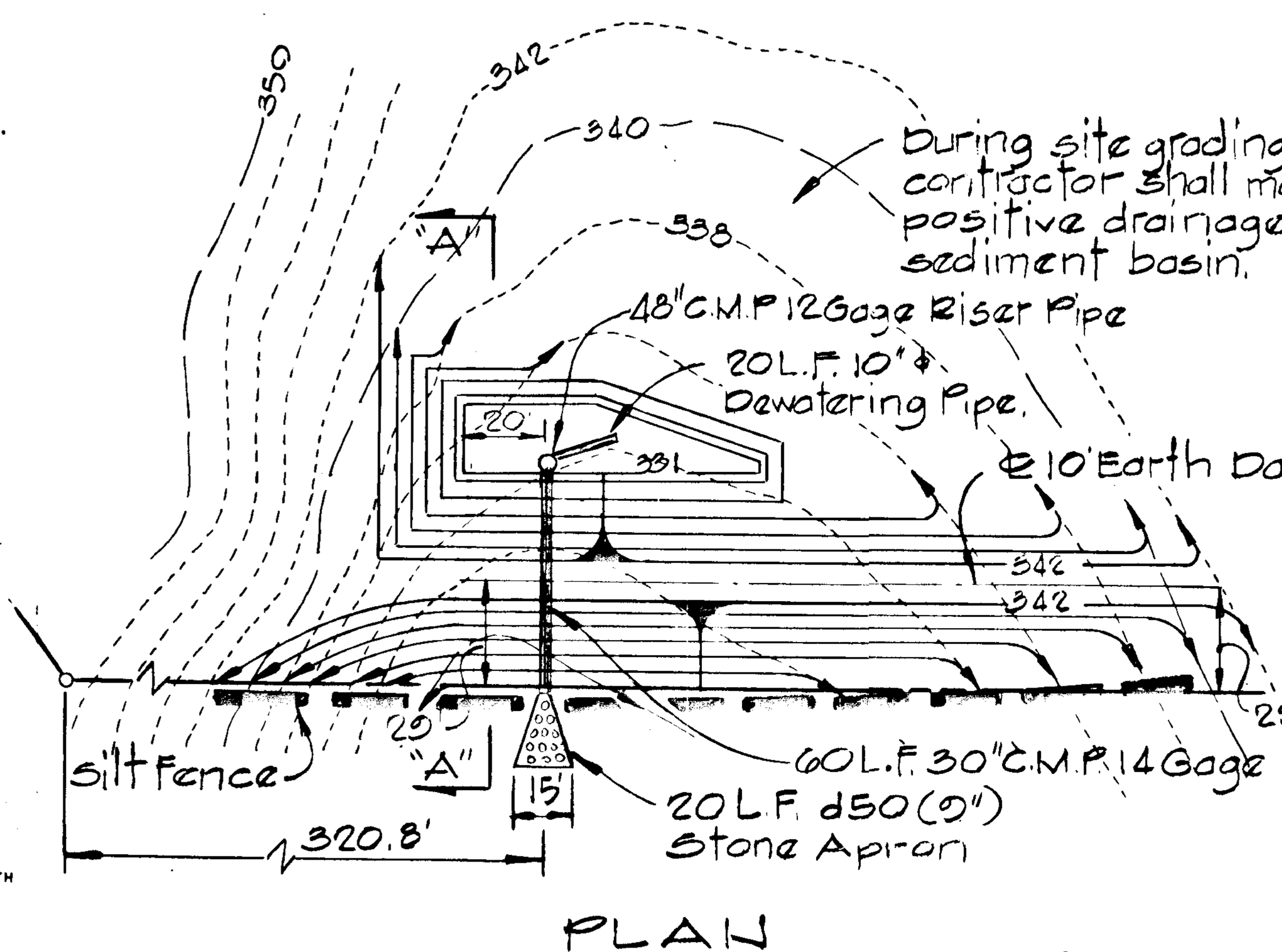
WATERTIGHT COUPLING BAND FOR 30" C.M.P.

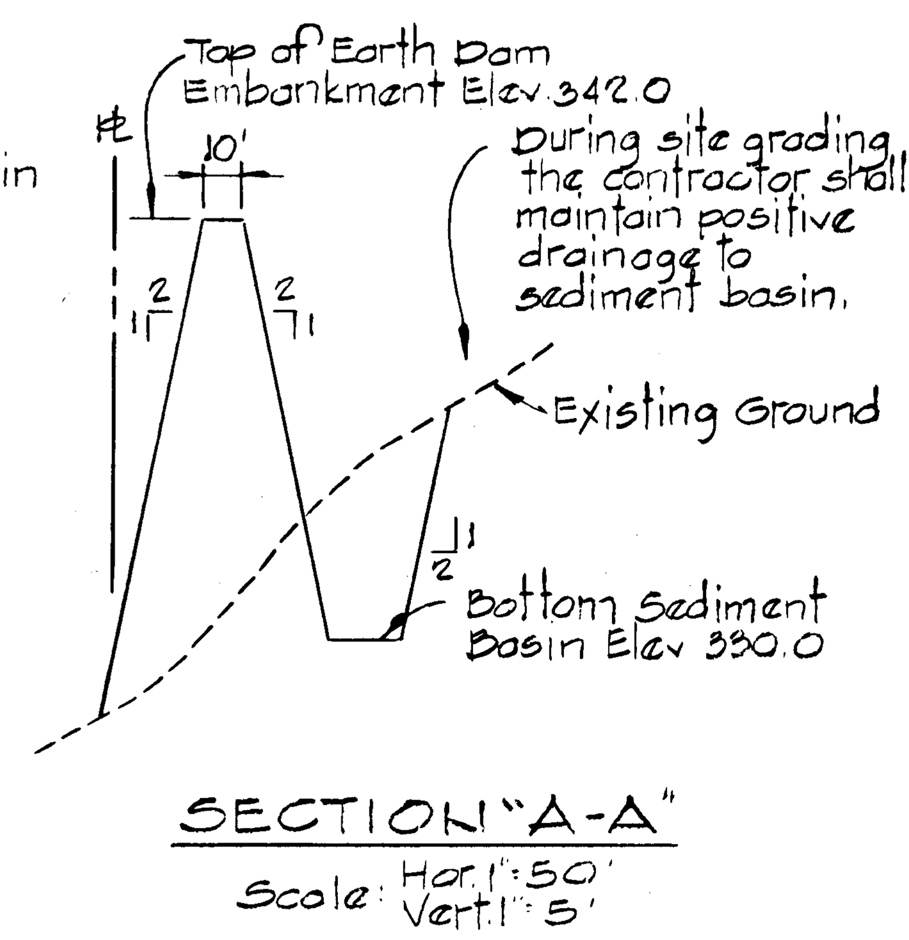
No Scale



SILT FENCE

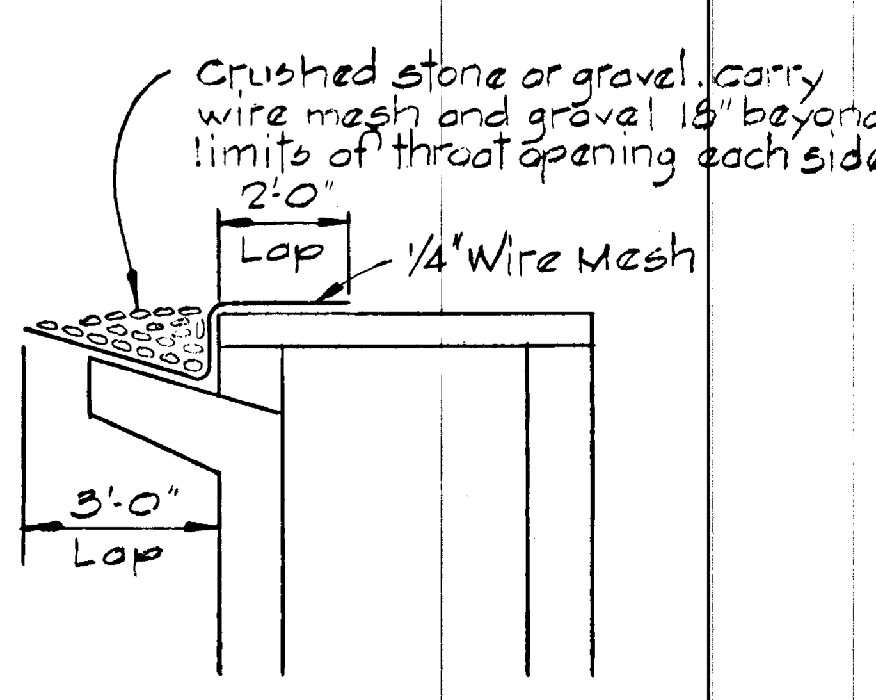
No Scale





INITIAL BASIN CONSTRUCTION PLAN AND SECTION

Scale: As Shown



TYPICAL INLET STONE FILTER

No Scale

DEPARTMENT OF PUBLIC WORKS

[signature] 6-29-84

CHIEF, BUREAU OF ENGINEERING DATE

OFFICE OF PLANNING & ZONING

[signature] 6/26/84

CHIEF, DIVISION OF LAND DEVELOPMENT AND ZONING ADMINISTRATION DATE

REV. DATE	REV. NO.	REVISION DESCRIPTION
4/10/84	1	As per 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 6

PROJECT TITLE
SEDIMENT CONTROL DETAILS

SCALE: AS SHOWN DATE:

WHITMAN, REQUARDT AND ASSOCIATES
ENGINEERS
BALTIMORE, MARYLAND 21218

[signature]
KENNETH A. McCORD
Registered Engineer
No. 1974

REVIEWED FOR HOWARD S.C.D. AND MEETS TECHNICAL REQUIREMENTS

[signature] 6-19-84
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] 6/20/84
HOWARD S.C.S. 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] 3-19-84
KENNETH A. McCORD DATE

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[signature] 3-20-84
WALTER E. WOODFORD DATE

42

F-84-140 3/19/84