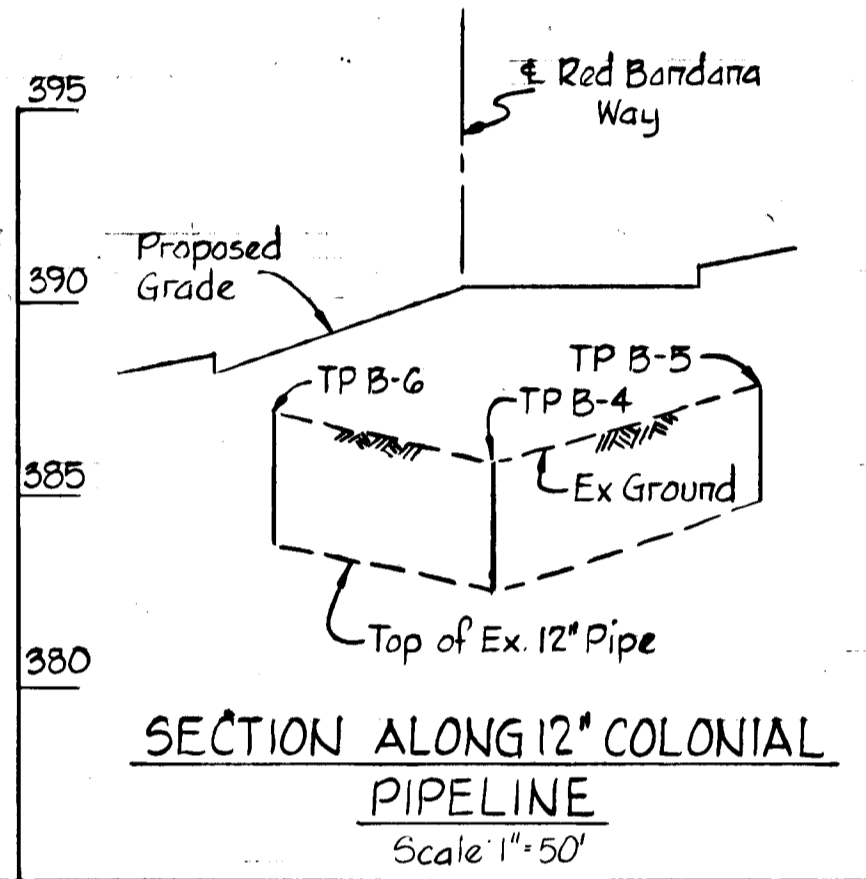
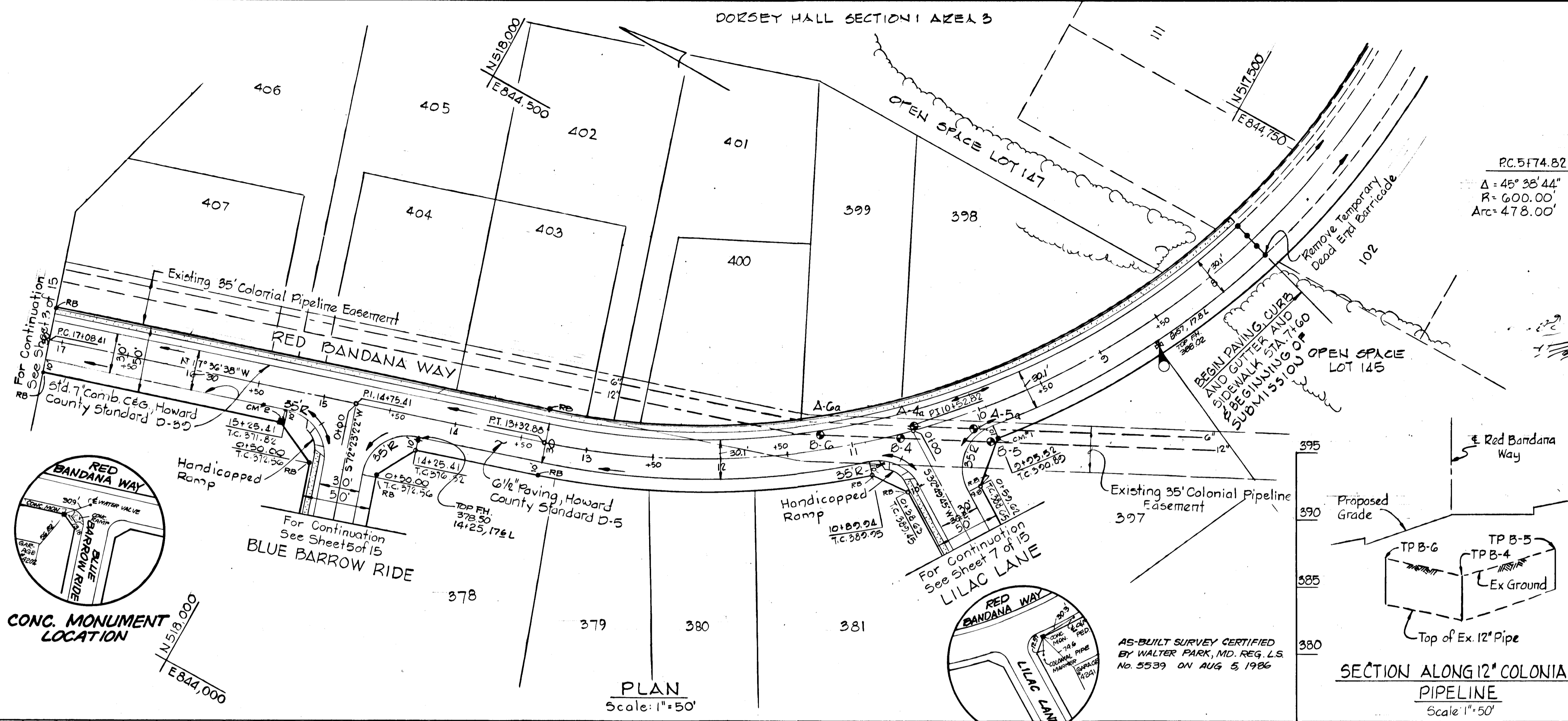


CURVE DATA

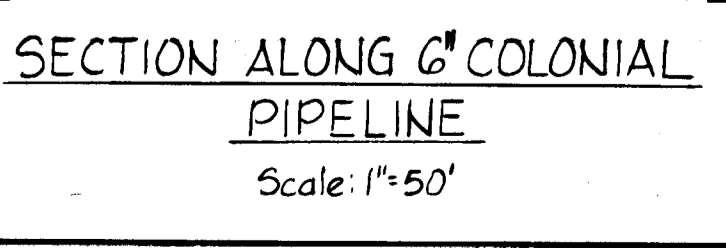
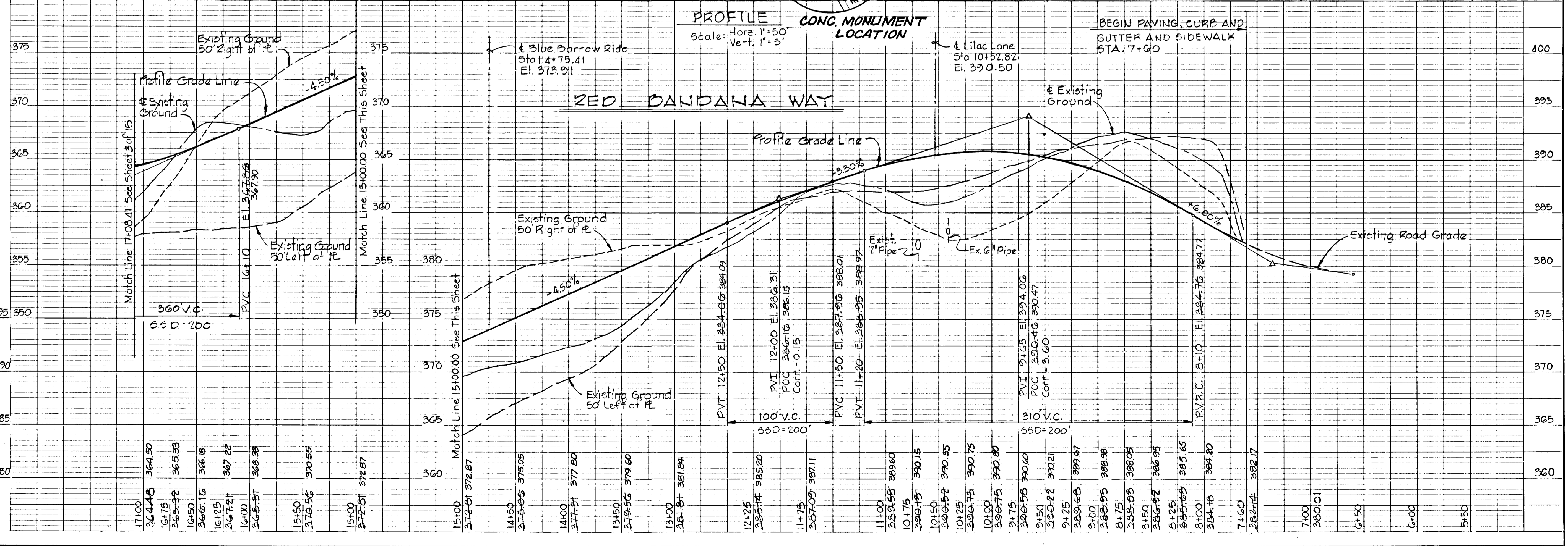
PC: 5+74.82 TO PI: 10+52.82	PI: 10+52.82 TO PT: 13+32.88
$\Delta = 45^\circ 38' 44''$ Tan = 252.50	$\Delta = 26^\circ 44' 38''$ Tan = 142.63'
R = 600.00' Chd. = 465.46'	R = 600.00' Chd. = 277.52'
Arc = 478.00'	Arc = 280.06' Chd. Brng = N30°58'57"W



Rev. Date	Rev. No.	Revision Description
		DORSEY HALL 2 ND ELECTION DISTRICT HOWARD COUNTY MARYLAND
		OWNER AND DEVELOPER HOWARD RESEARCH AND DEVELOPMENT CORP.
		PROJECT AREA SECTION 1 AREA 5
		PROJECT TITLE RED BANDANA WAY
		SCALE: AS SHOWN DATE
		WHITMAN, REQUARDT & ASSOCIATES ENGINEERS BALTIMORE, MARYLAND 21202
		<i>Kenneth A. McCord</i> KENNETH A. McCORD Registered Engineer No. 1974

COLONIAL PIPELINE TEST PIT DATA

6" PIPE	
A-4a	Exist Ground = 385.5 Top of Pipe = 382.2 Depth = 3.3'
A-5a	Exist Ground = 387.3 Top of Pipe = 382.2 Depth = 3.2'
A-6a	Exist Ground = 387.1 Top of Pipe = 382.6 Depth = 4.5'
12" PIPE	
B-4	Exist Ground = 385.8 Top of Pipe = 382.5 Depth = 3.3'
B-5	Exist Ground = 387.8 Top of Pipe = 384.8 Depth = 3.0'
B-6	Exist Ground = 387.3 Top of Pipe = 383.6 Depth = 3.7'



PLAN NOTE BOOK

DATE	BY

PROFILE NOTE BOOK

DATE	BY

NOTE:
See this Street for Colonial Test
Pit Data and Sheet 7 of 16 for
Sections along existing pipes.

CURVE DATA

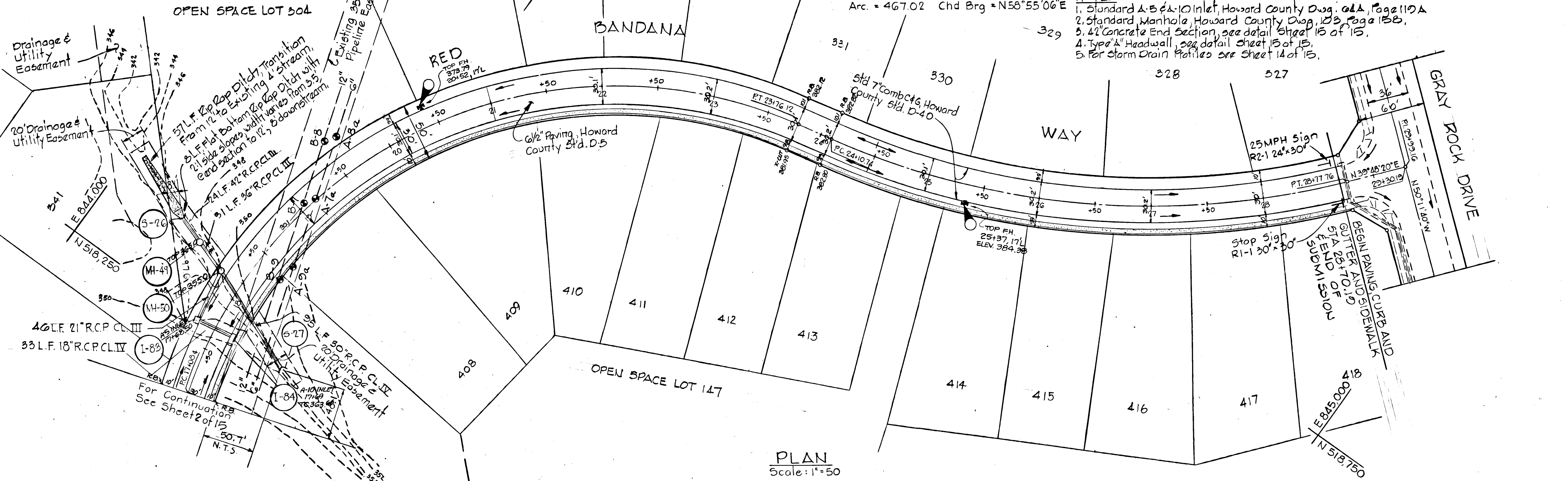
PC. 17+08.41 TO P.T. 23+76.12
 $\Delta = 95^{\circ}38'31''$ Tan = 441.46'
 $R = 400.00'$ Chd = 592.84'
 Arc = 667.71' Chd Brg = N 30°12'37"E

PC. 24+07.74 TO P.T. 28+77.76
 $\Delta = 36^{\circ}13'33''$ Tan = 242.57'
 $R = 700.00'$ Chd = 456.40'
 Arc = 467.02' Chd Brg = N 58°55'06"E

STORM DRAIN STRUCTURE SCHEDULE

NO	TYPE	TOP ELEV	INV IN	INV OUT	LOCATION
1-03	Std A-5 Inlet (width=25')	363.64	358.80	358.53	4' x 16.25' Left of Sta. 17+68.5
1-04	Std A-10 Inlet (width=25')	363.64	359.15	359.15	4' x 16.25' Right of Sta. 17+71
MH-41	Standard Manhole	354.70	344.57	343.90	See Plans & Profile
MH-50	Standard Manhole	363.10	348.25	347.71	4' x 20.0' Left of Sta. 18+16.50
5-26	Type A Headwall	---	---	342.80	See Plans & Profile
5-27	Type A Headwall	---	349.40	---	See Plans & Profile

DEPARTMENT OF PUBLIC WORKS
 2-6-81
 CHIEF, BUREAU OF ENGINEERING
 OFFICE OF PLANNING AND ZONING
 2-5-81
 CHIEF, DIVISION OF LAND DEVELOPMENT



NOTES:
 1. Standard A-5 2'-10 Inlet, Howard County Dwg. 08A, Page 110A
 2. Standard Manhole, Howard County Dwg. 123, Page 15B
 3. 4' Concrete End Section, see detail Sheet 15 of 15.
 4. Type A Headwall, see detail Sheet 15 of 15.
 5. For Storm Drain Profiles see Sheet 14 of 15.

Rev. Date	Rev. No.	As Per State of Md. Comments	Revision Description
7-24-81	1	As Per State of Md. Comments	

DORSEY HALL
 2ND ELECTION DISTRICT
 HOWARD COUNTY MARYLAND

OWNER AND DEVELOPER
 HOWARD RESEARCH AND DEVELOPMENT CORP

PROJECT AREA
 SECTION I AREA 5

PROJECT TITLE
 RED BANDANA WAY

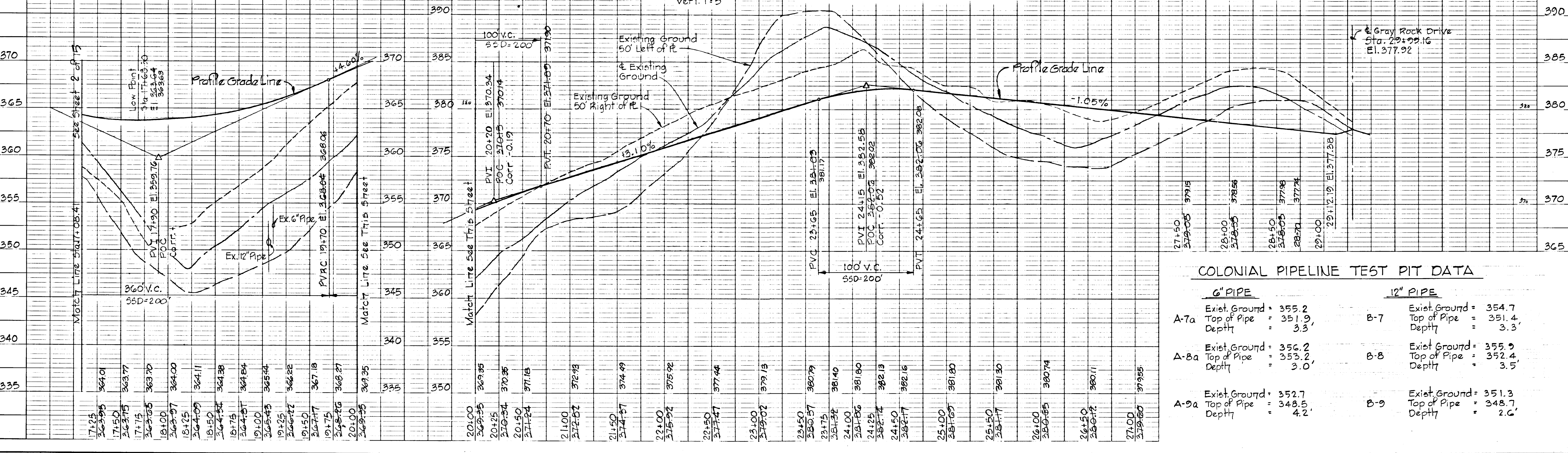
SCALE: AS SHOWN DATE

WHITMAN, REQUARDT & ASSOCIATES
 ENGINEERS
 BALTIMORE, MARYLAND 21202

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

PLAN
 Scale: 1"=50'

PROFILE
 Scale: Horiz. 1"=50'
 Vert. 1"=5'



COLONIAL PIPELINE TEST PIT DATA

6" PIPE		12" PIPE	
A-7a	Exist. Ground = 355.2 Top of Pipe = 351.4 Depth = 3.3'	B-7	Exist. Ground = 354.7 Top of Pipe = 351.4 Depth = 3.3'
A-8a	Exist. Ground = 356.2 Top of Pipe = 353.2 Depth = 3.0'	B-8	Exist. Ground = 355.9 Top of Pipe = 352.4 Depth = 3.5'
A-9a	Exist. Ground = 352.7 Top of Pipe = 348.5 Depth = 4.2'	B-9	Exist. Ground = 351.3 Top of Pipe = 348.7 Depth = 2.6'

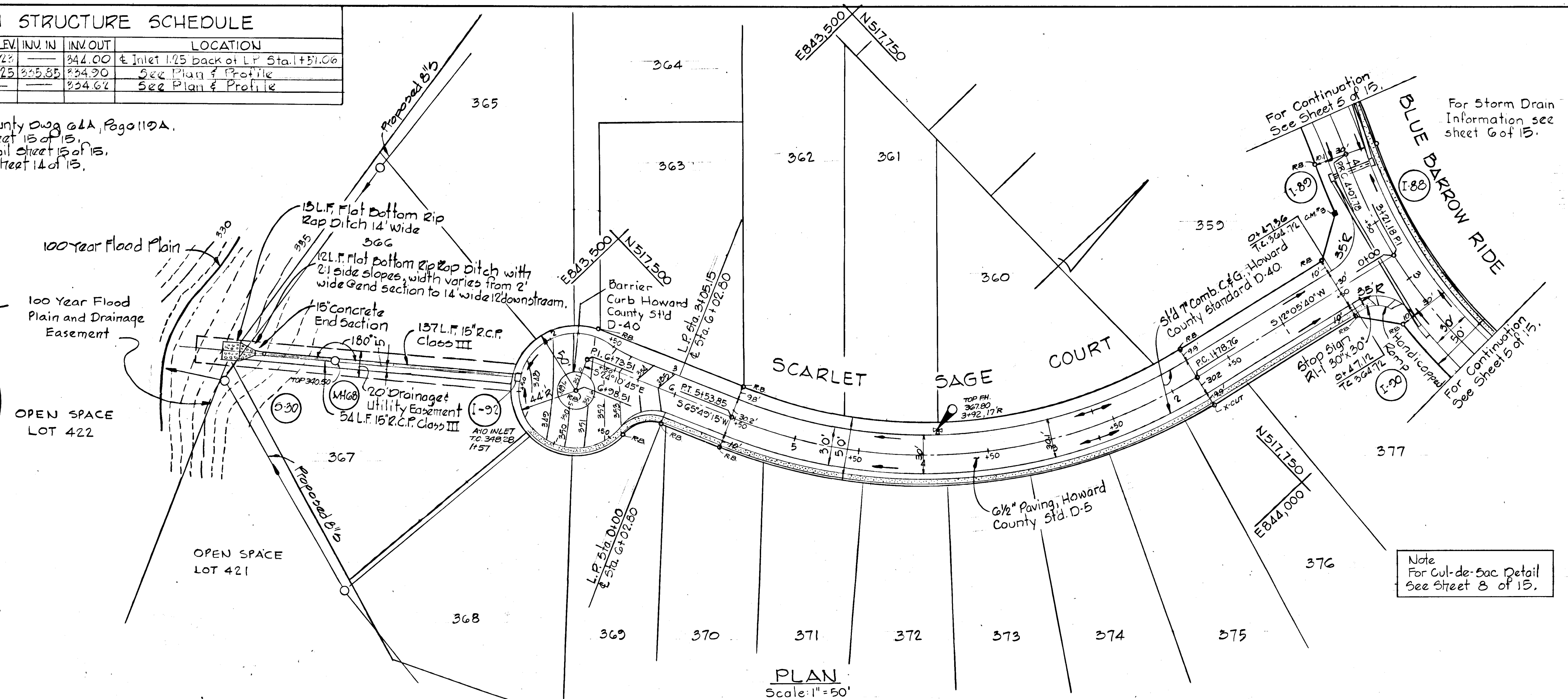
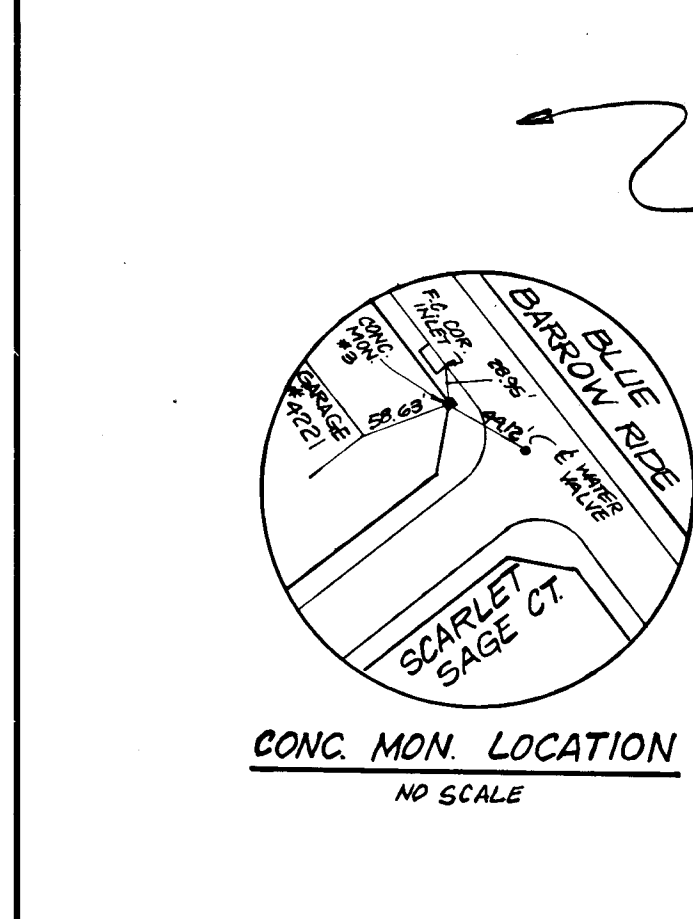
CURVE DATA
 P.C. 1+78.76 TO P.T. 5+53.85
 $\Delta = 55^{\circ}45'39''$ $Tan = 202.61'$
 $R = 400.00'$ $Chd = 361.50'$
 $Arc = 375.09'$ $Chd.Brg = 53^{\circ}57'26''W$

Rev. Date	Rev. No.	Revision Description
		DORSEY HALL 2 ND ELECTION DISTRICT HOWARD COUNTY MARYLAND
		OWNER AND DEVELOPER HOWARD RESEARCH AND DEVELOPMENT CORP.
		PROJECT AREA SECTION I AREA 5
		PROJECT TITLE SCARLET SAGE COURT
		SCALE: AS SHOWN DATE
		WHITMAN, REQUARDT & ASSOCIATES ENGINEERS BALTIMORE, MARYLAND 21202
		<i>Kenneth A. McCord</i> KENNETH A. McCORD Registered Engineer No. 1974

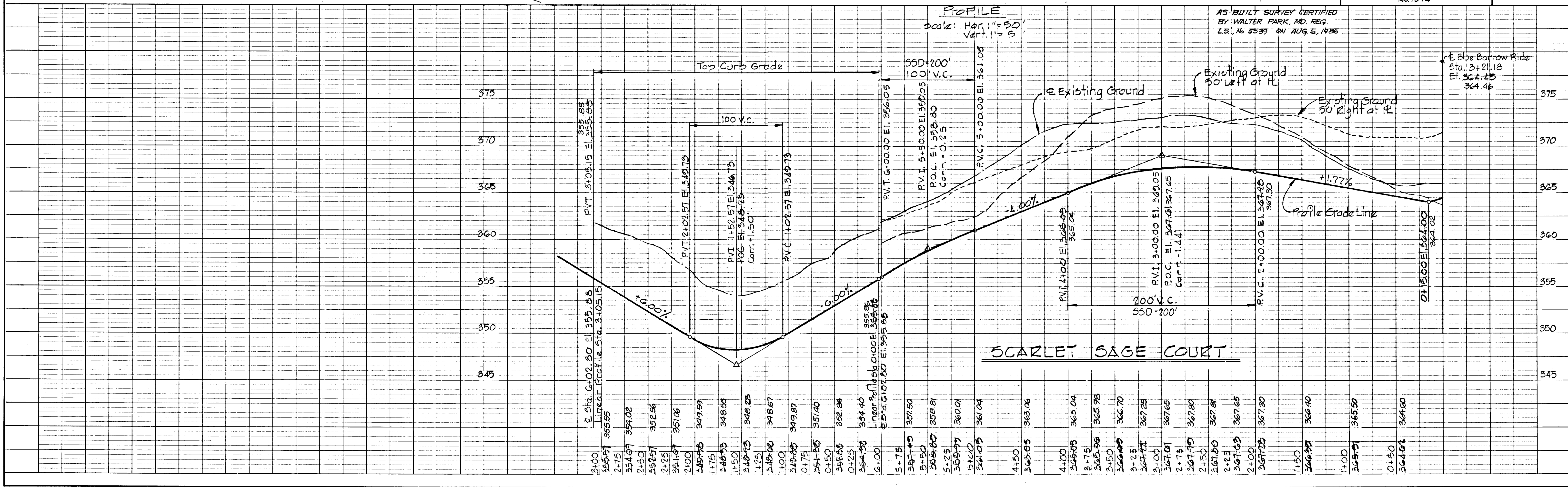
STORM DRAIN STRUCTURE SCHEDULE

No.	Type	TOP ELEV.	INV. IN	INV. OUT	LOCATION
1-30	Std. A-10 Inlet (width=25)	345.25		344.00	4' Inlet 1.25 back of L.P. Sta. 1+51.00
M-66	Type "B" Manhole	340.25	335.85	334.90	See Plan & Profile
5-30	15' Concrete End Section			334.64	See Plan & Profile

NOTES:
 1. Standard A-10 Inlet, Howard County Dwg. 62A, Page 110A.
 2. Type B Manhole, see detail sheet 15 of 15.
 3. 15' Concrete End Section, see detail sheet 15 of 15.
 4. For Storm Drain Profiles see sheet 14 of 15.



PLAN
 Scale: 1" = 50'



SCARLET SAGE COURT

PLAN
 DATE
 BY
 CHECKED
 NOTE BOOK
 NO.

PROFILE
 DATE
 BY
 CHECKED
 NOTE BOOK
 NO.

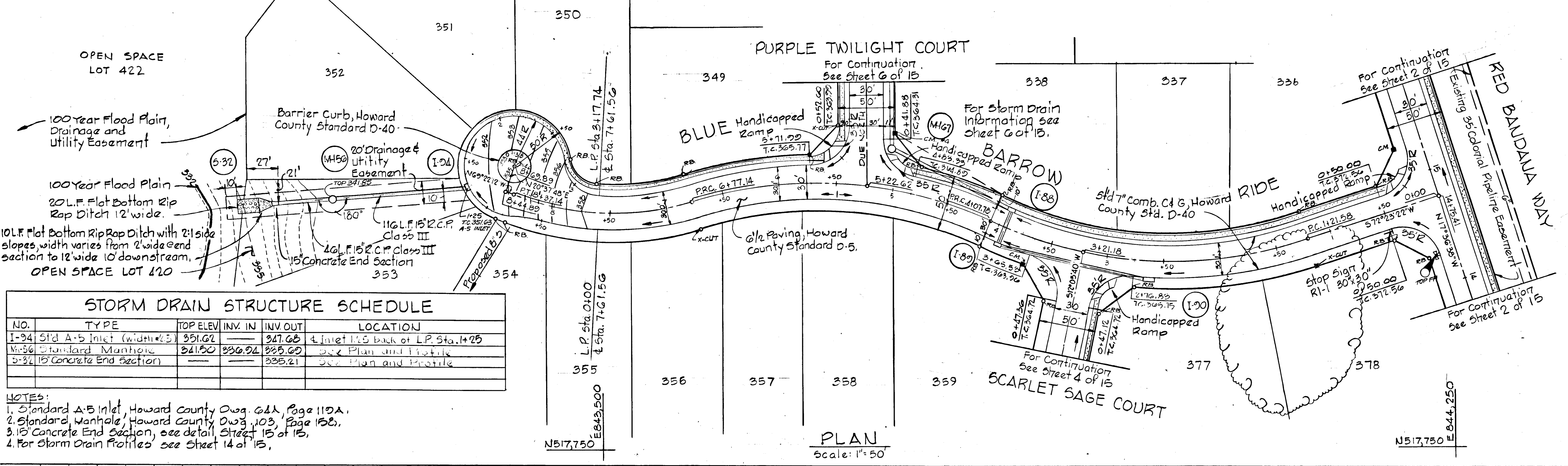
CURVE DATA

P.C. 1+21.58 TO P.T. 3+21.18 $\Delta = 29^{\circ}42'15''$ Tan = 102.10' $R = 385.00'$ Chd. = 197.37' Arc = 199.60' Chd. Brg. = $S87^{\circ}14'29''W$	P.I. 3+21.18 TO P.C. 4+07.78 $\Delta = 12^{\circ}53'16''$ Tan = 43.48' $R = 385.00'$ Chd. = 86.42' Arc = 86.60' Chd. Brg. = $N71^{\circ}27'45''W$	P.T. 3+21.18 TO P.C. 4+07.78 $\Delta = 18^{\circ}03'46''$ Tan = 57.90' $R = 364.29'$ Chd. = 114.37' Arc = 114.84' Chd. Brg. = $N74^{\circ}03'00''W$
P.I. 5+22.62 TO P.C. 6+77.14 $\Delta = 24^{\circ}18'11''$ Tan = 78.44' $R = 364.29'$ Chd. = 153.36' Arc = 154.52' Chd. Brg. = $S84^{\circ}46'01''N$	P.C. 6+77.14 TO P.T. 8+37.14 $\Delta = 28^{\circ}00'55''$ Tan = 83.07' $R = 241.15'$ Chd. = 157.08' Arc = 160.00' Chd. Brg. = $N85^{\circ}22'38''W$	

DEPARTMENT OF PUBLIC WORKS
 2-6-81
 CHIEF, BUREAU OF ENGINEERING
 OFFICE OF PLANNING AND ZONING
 CHIEF, DIVISION OF LAND DEVELOPMENT DATE

Note
 For Cul-de-Sac Details
 See Sheet 8 of 15.

DATE: _____
 BY: _____
 SURVEYED: _____
 PLOTTED: _____
 CHECKED: _____
 NOTE BOOK: _____
 NO. _____



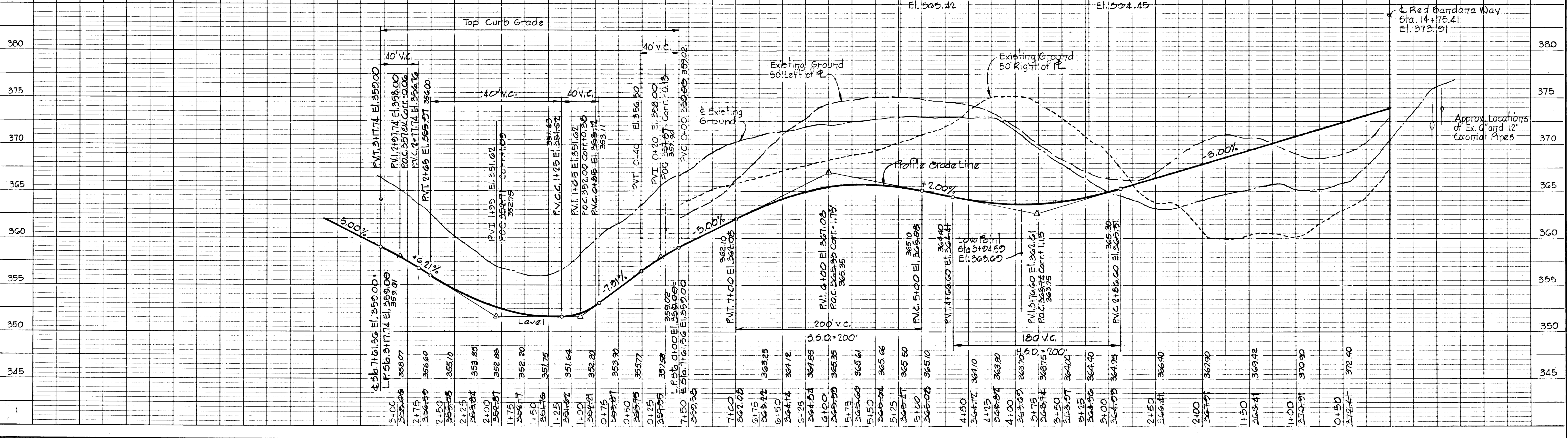
STORM DRAIN STRUCTURE SCHEDULE

NO.	TYPE	TOP ELEV.	INV. IN.	INV. OUT.	LOCATION
1-34	Std. A-B Inlet (width 48")	351.62	347.68	347.68	Inlet 100' back of L.P. Sta. 1+25
M-36	Standard Manhole	341.50	336.24	336.24	2x2 Plan and Profile
3-34	Concrete End Section			335.21	2x2 Plan and Profile

NOTES:
 1. Standard A-B Inlet, Howard County Dwg. 61A, Page 110A.
 2. Standard Manhole, Howard County Dwg. 103, Page 152.
 3. Concrete End Section, see detail, Street 15 of 15.
 4. For Storm Drain Profiles see Sheet 14 of 15.

PROFILE

Scale: Horz. 1" = 50'
 Vert. 1" = 5'



AS-BUILT SURVEY CERTIFIED
 BY WALTER PARK, MD REG.
 L.S. No. 5539 ON AUG. 5, 1983

Rev. Date	Rev. No.	Revision Description

DORSEY HALL
 2ND ELECTION DISTRICT
 HOWARD COUNTY MARYLAND

OWNER AND DEVELOPER
 HOWARD RESEARCH AND DEVELOPMENT CORP.

PROJECT AREA
 SECTION 1 AREA 5

PROJECT TITLE
 BLUE BARROW RIDE

SCALE: AS SHOWN DATE

WHITMAN, REQUARDT & ASSOCIATES
 ENGINEERS
 BALTIMORE, MARYLAND 21202

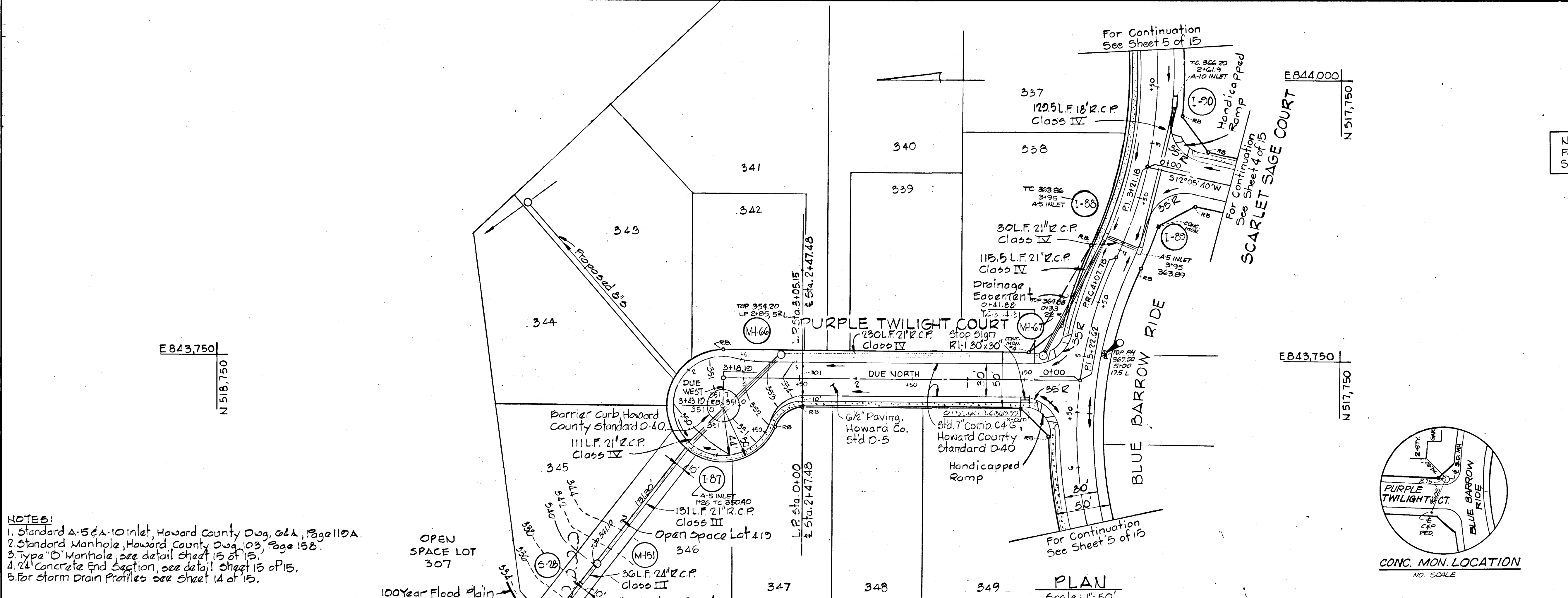
Kenneth A. McCord
 KENNETH A. MCCORD
 Registered Engineer
 No. 1974

DATE: _____
 BY: _____
 SURVEYED: _____
 PLOTTED: _____
 CHECKED: _____
 NOTE BOOK: _____
 NO. _____

Note:
 For Cur-de-Sac Details
 See Sheet 5 of 15.

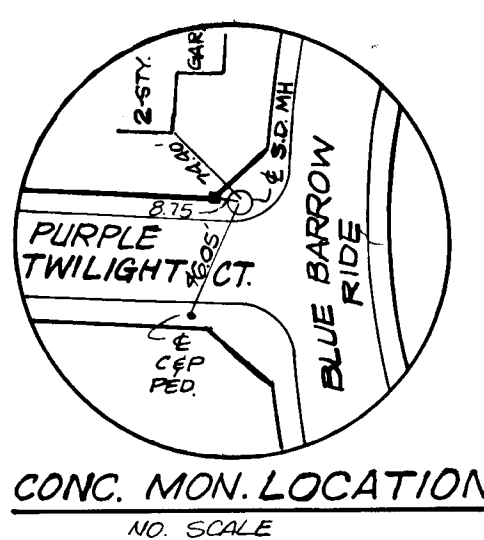
PLAN	DATE
BY	
NO.	

PROFILE	DATE
BY	
NO.	

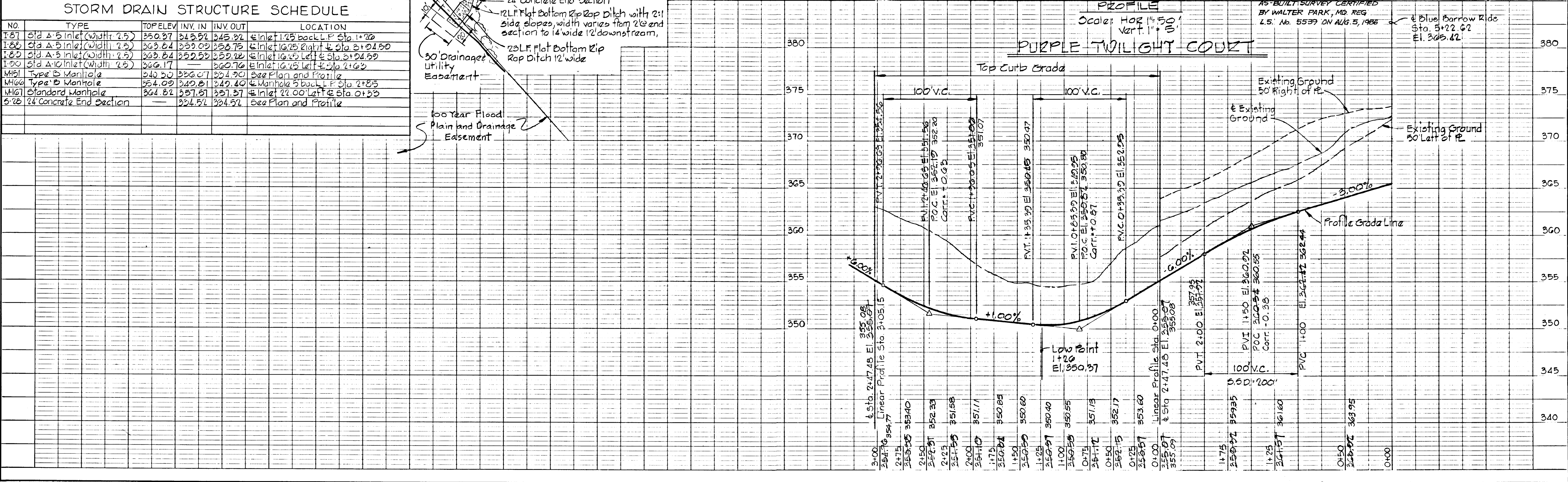


- NOTES:
 1. Standard A-5 & A-10 Inlet, Howard County Dwg. 044, Page 110A.
 2. Standard Manhole, Howard County Dwg. 103, Page 15B.
 3. Type 'D' Manhole. See detail sheet 15 of 15.
 4. 24" Concrete End Section, see detail sheet 15 of 15.
 5. For storm Drain Profiles see sheet 14 of 15.

Rev. Date	Rev. No.	Revision Description
DORSEY HALL 2 ND ELECTION DISTRICT HOWARD COUNTY MARYLAND		
OWNER AND DEVELOPER HOWARD RESEARCH AND DEVELOPMENT CORP.		
PROJECT AREA SECTION 1 AREA 5		
PROJECT TITLE PURPLE TWILIGHT COURT		
SCALE: AS SHOWN DATE		
WHITMAN, REQUARDT & ASSOCIATES ENGINEERS BALTIMORE, MARYLAND 21202		
<i>Kenneth A. McCord</i> KENNETH A. MCCORD Registered Engineer No. 1974		



NO.	TYPE	TOPELEV. INV. IN	INV. OUT	LOCATION
1-87	Std A-5 Inlet (width 2.5)	350.37	345.32	4 Inlet 1.25 back L.F. Sta 1+20
1-88	Std A-5 Inlet (width 2.5)	353.84	353.75	4 Inlet 10.25 Right of Sta 3+24.50
1-89	Std A-5 Inlet (width 2.5)	353.84	353.22	4 Inlet 10.25 Left of Sta 3+24.50
1-90	Std A-10 Inlet (width 2.5)	356.17	360.76	4 Inlet 10.25 Left of Sta 2+65
MH-64	Type B Manhole	340.50	354.90	See Plan and Profile
MH-66	Type B Manhole	354.09	349.40	4 Manhole 5 back L.F. Sta 2+25
MH-67	Standard Manhole	364.82	351.37	4 Inlet 22.00 Left of Sta. 0+55
5-28	24" Concrete End Section		354.52	See Plan and Profile

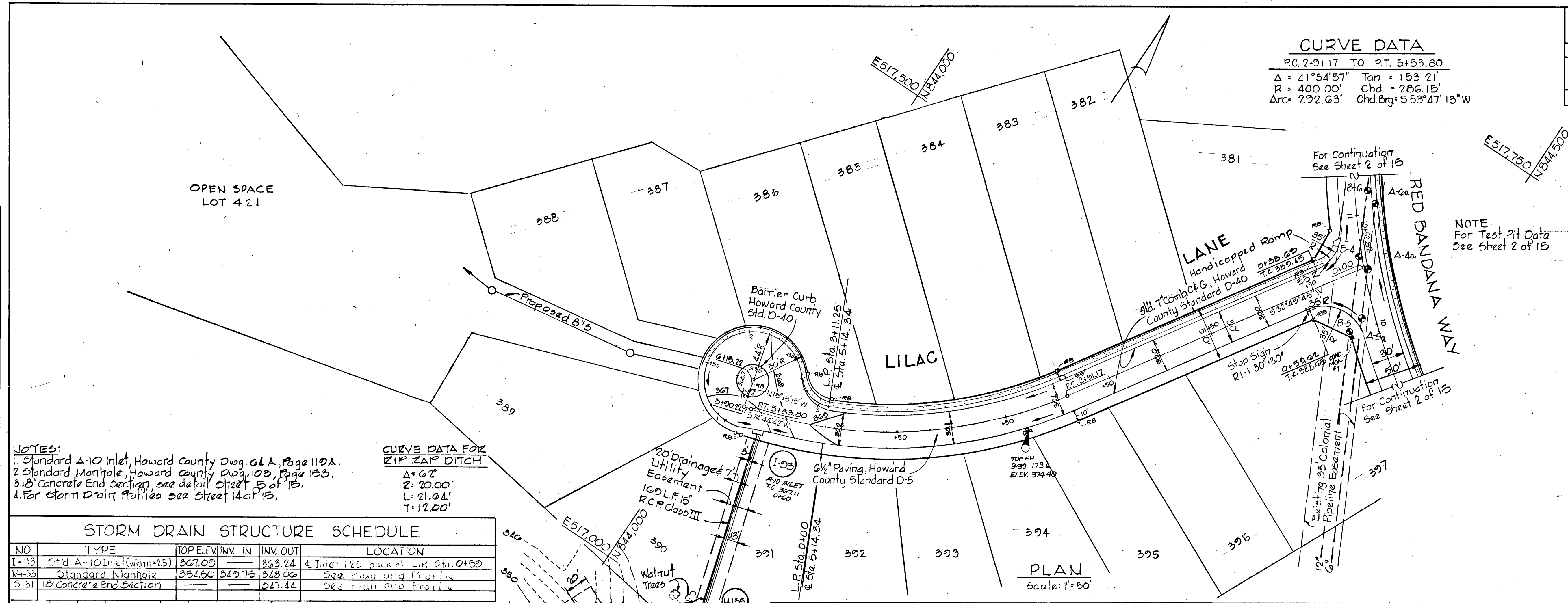


CURVE DATA
 P.C. 2+91.17 TO P.T. 5+83.80
 $\Delta = 41^\circ 54' 57''$ Tan = 153.21'
 R = 400.00' Chd. = 286.15'
 Arc = 292.63' Chd. Brg. = $55^\circ 47' 13''$ W

Note:
 For Cul-de-Sac Details
 See Sheet 8 of 15

NOTE:
 For Test Pit Data
 See Sheet 2 of 15

Rev. Date	Rev. No.	Revision Description
DORSEY HALL 2 ND ELECTION DISTRICT HOWARD COUNTY MARYLAND		
OWNER AND DEVELOPER HOWARD RESEARCH AND DEVELOPMENT CORP		
PROJECT AREA SECTION I AREA 5		
PROJECT TITLE LILAC LANE		
SCALE: AS SHOWN DATE		
WHITMAN, REQUARDT & ASSOCIATES ENGINEERS BALTIMORE, MARYLAND 21202		
<i>Kenneth A. McCord</i> KENNETH A. McCORD Registered Engineer No. 1974		

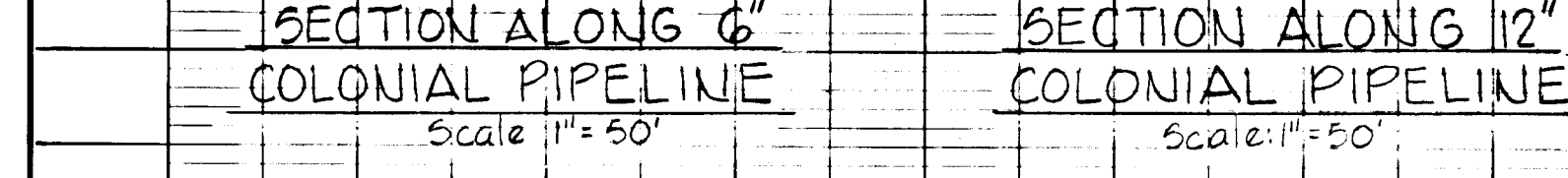
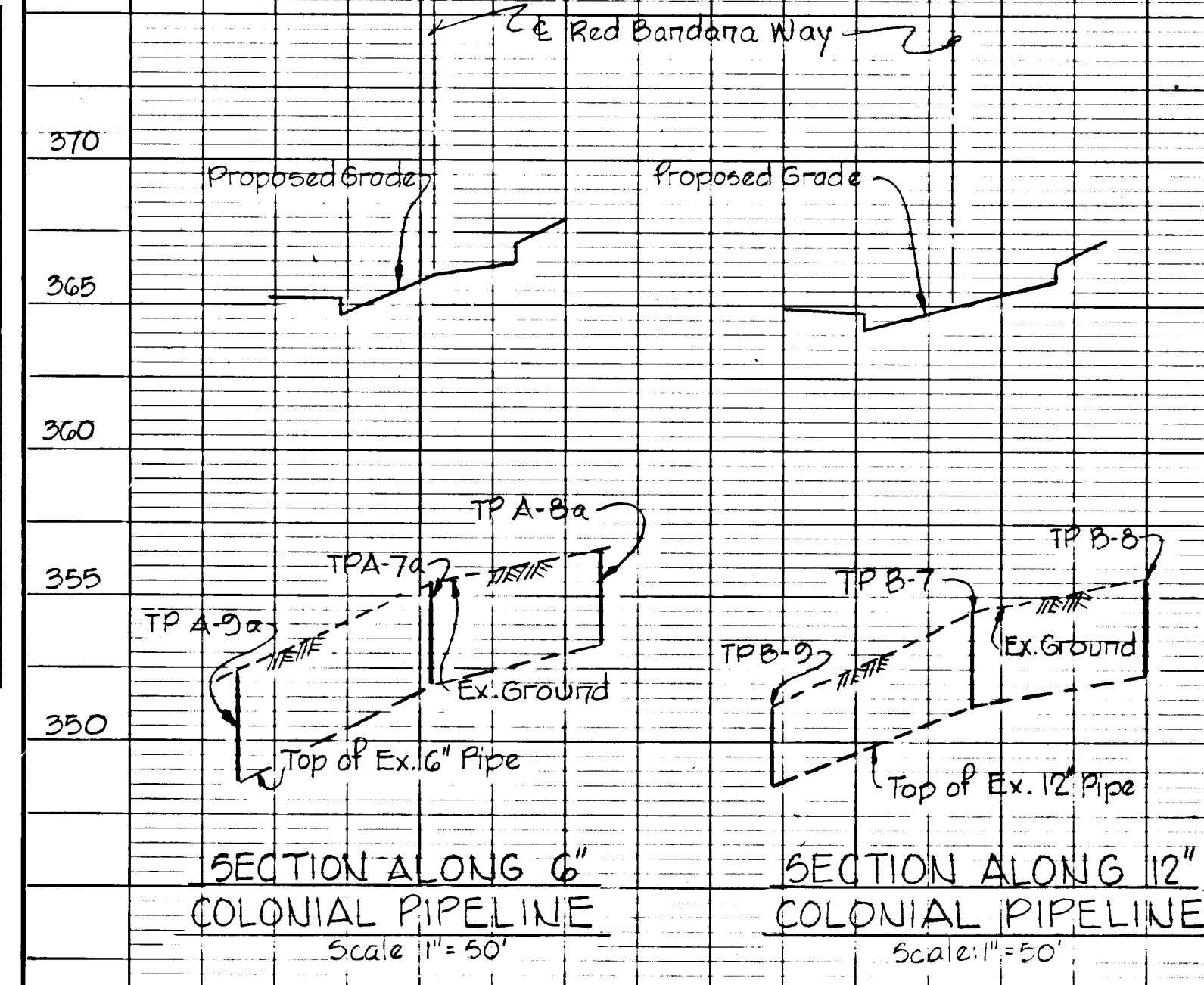
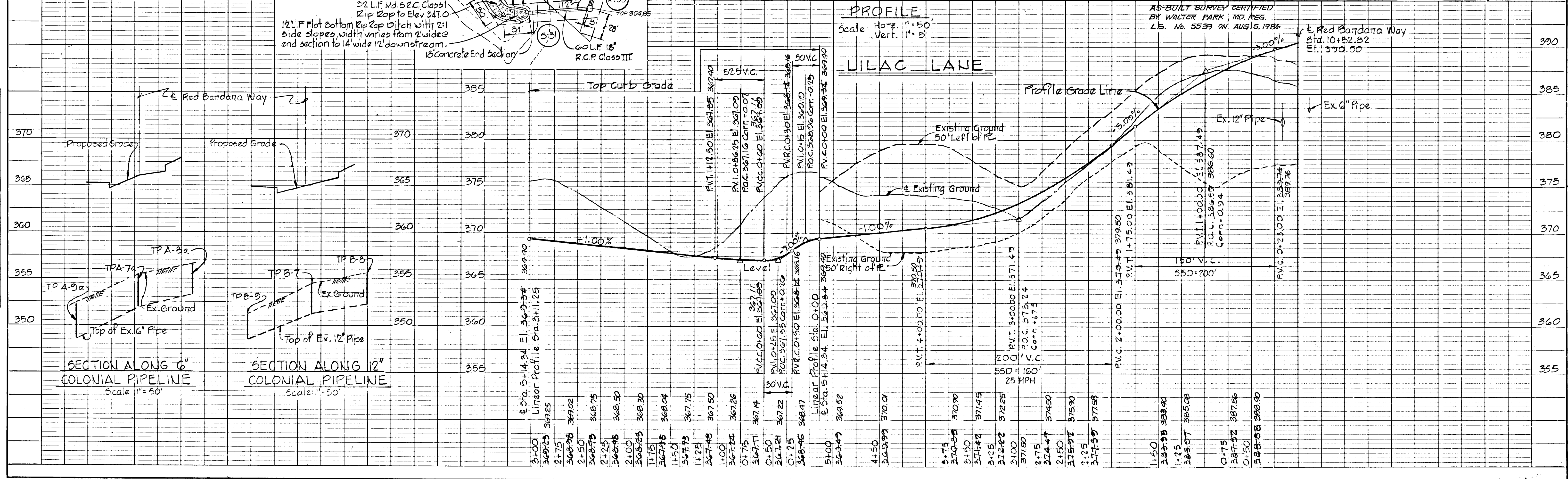


NOTES:
 1. Standard A-10 Inlet, Howard County Dwg. G.L.A. Page 110A.
 2. Standard Manhole, Howard County Dwg. 103, Page 153.
 3. 18" Concrete End Section, see detail Sheet 15 of 15.
 4. For Storm Drain Profiles see Sheet 14 of 15.

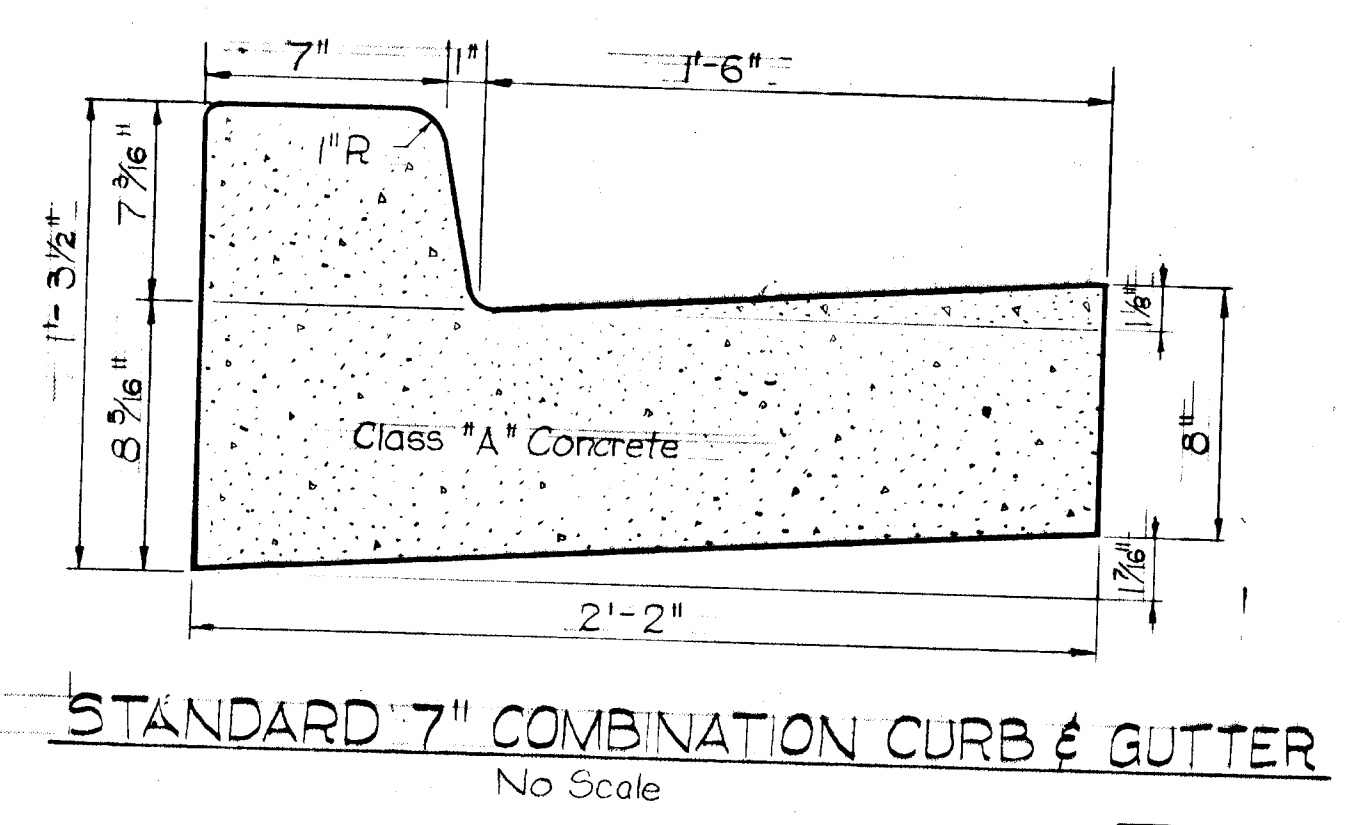
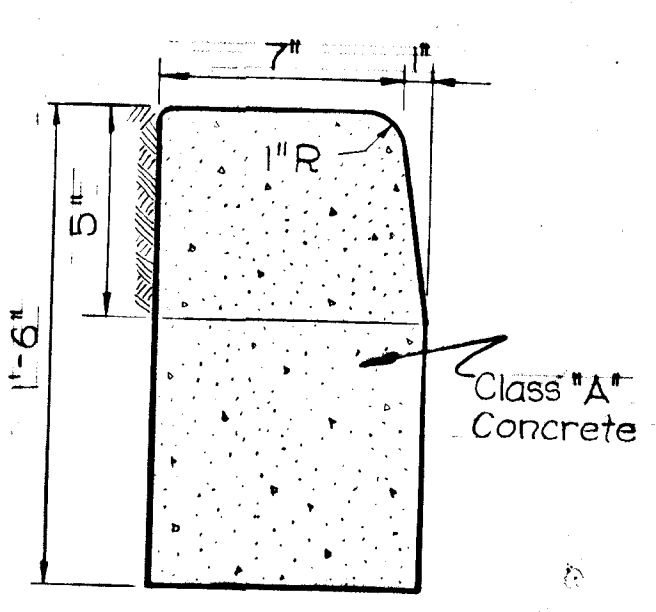
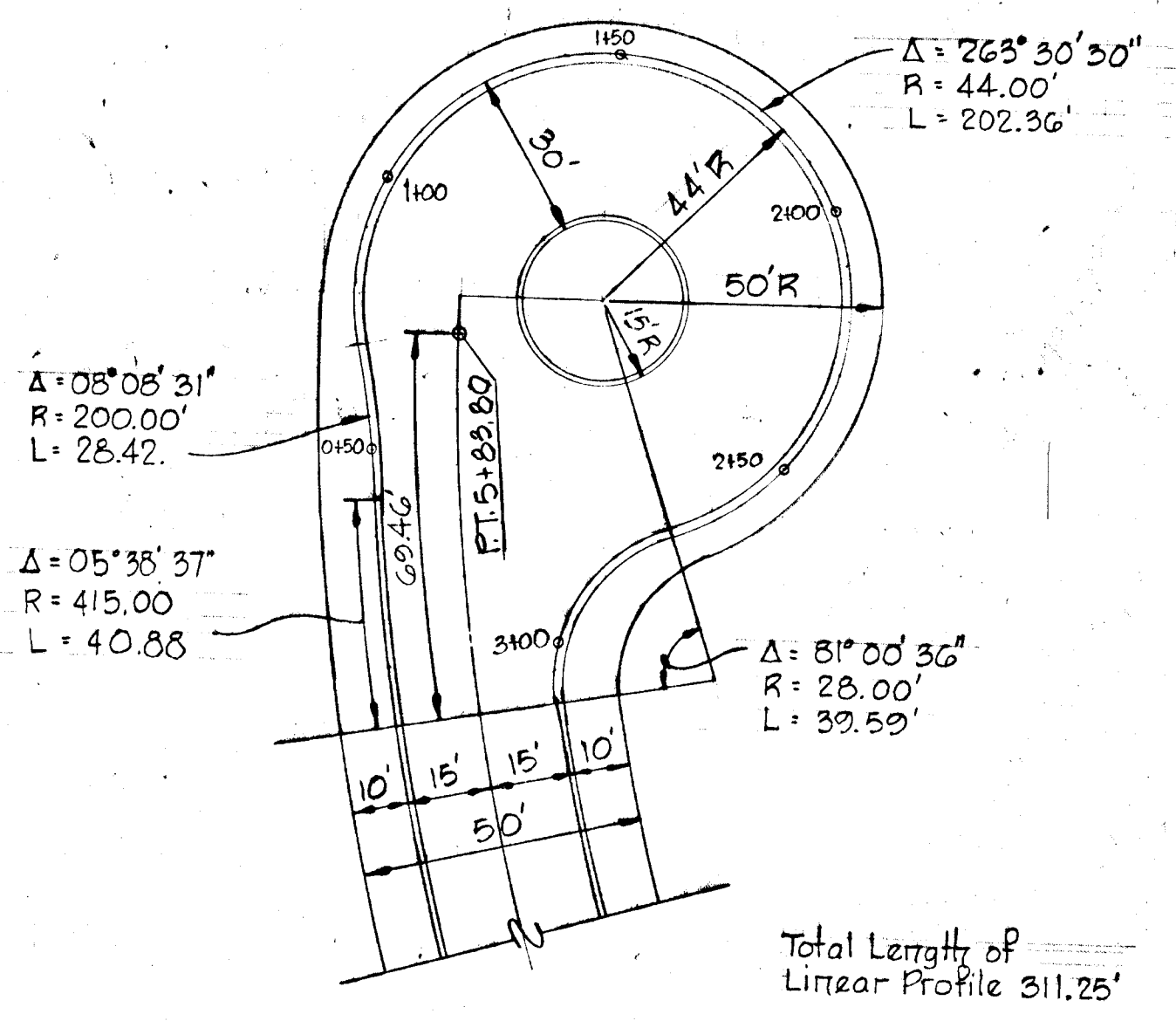
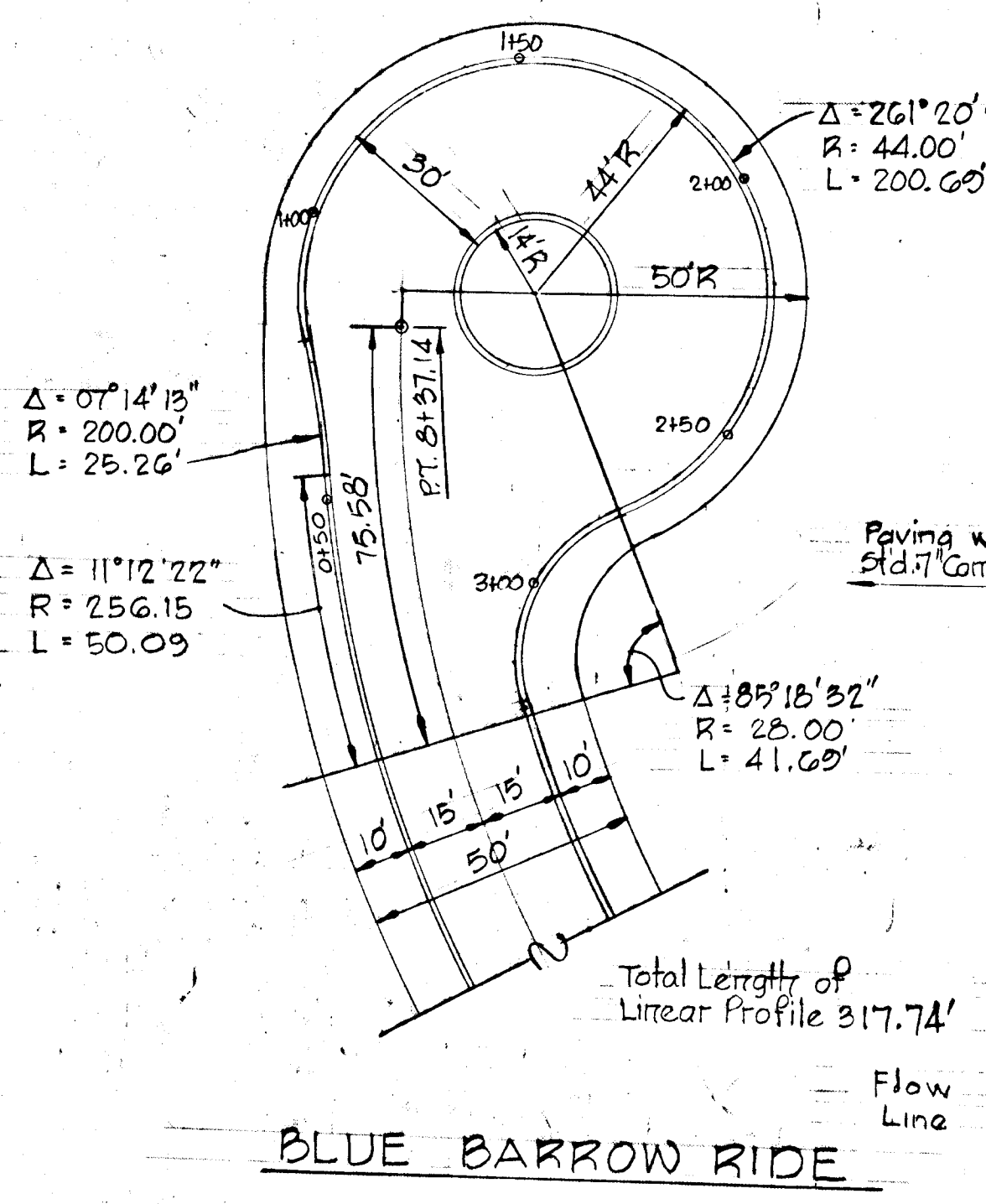
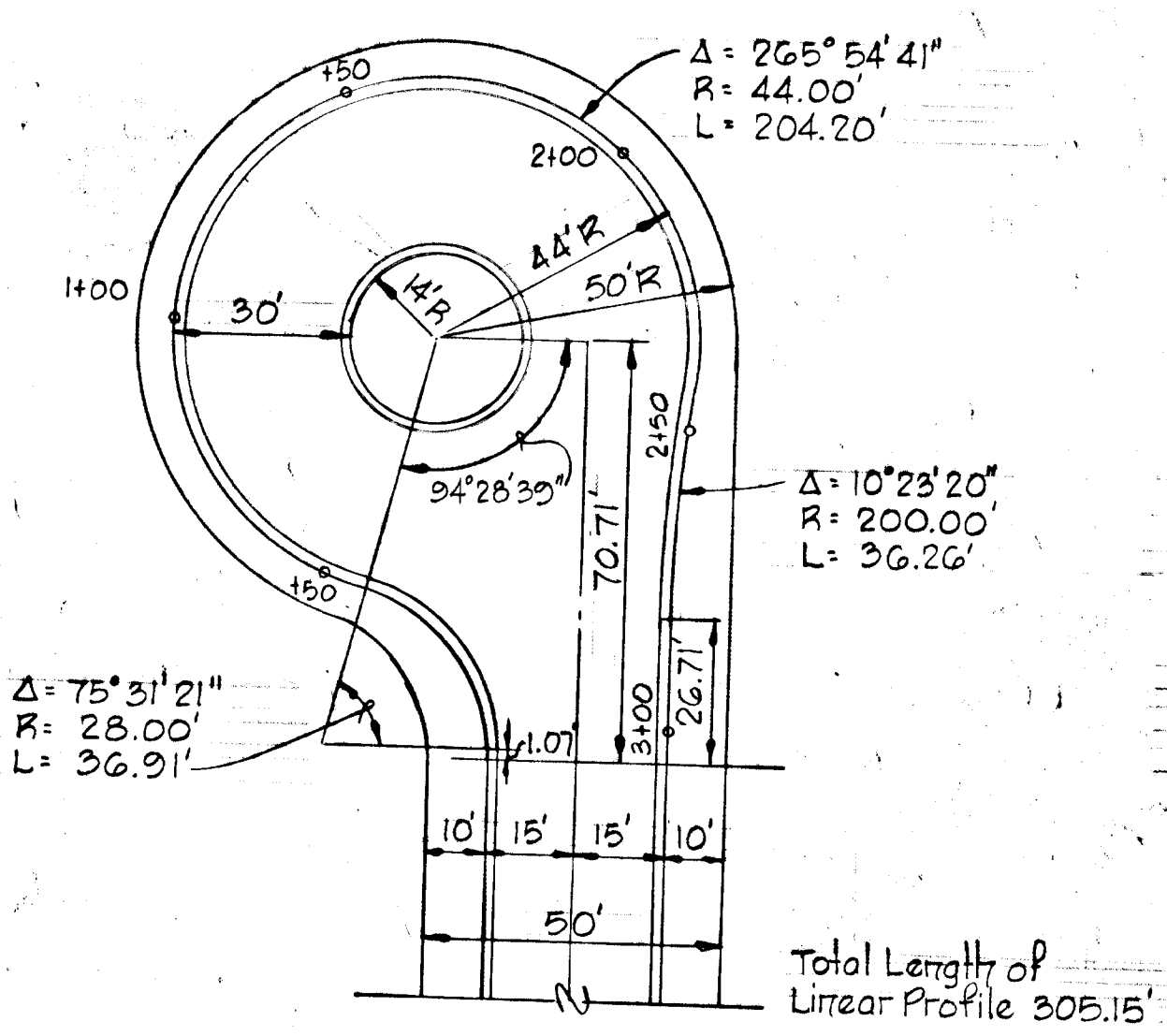
CURVE DATA FOR ZIP RAP DITCH
 $\Delta = 62^\circ$
 R = 20.00'
 L = 21.04'
 T = 12.00'

STORM DRAIN STRUCTURE SCHEDULE

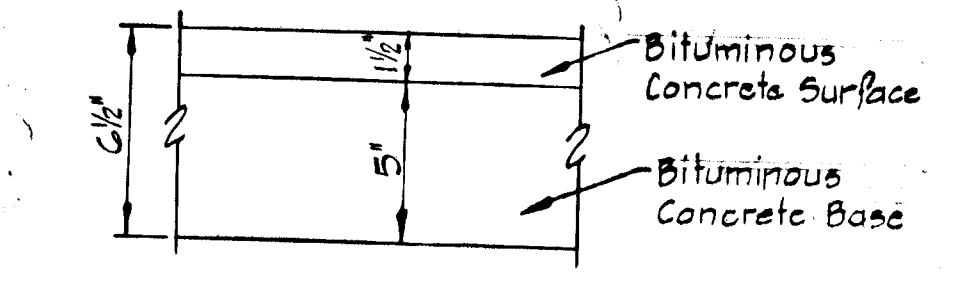
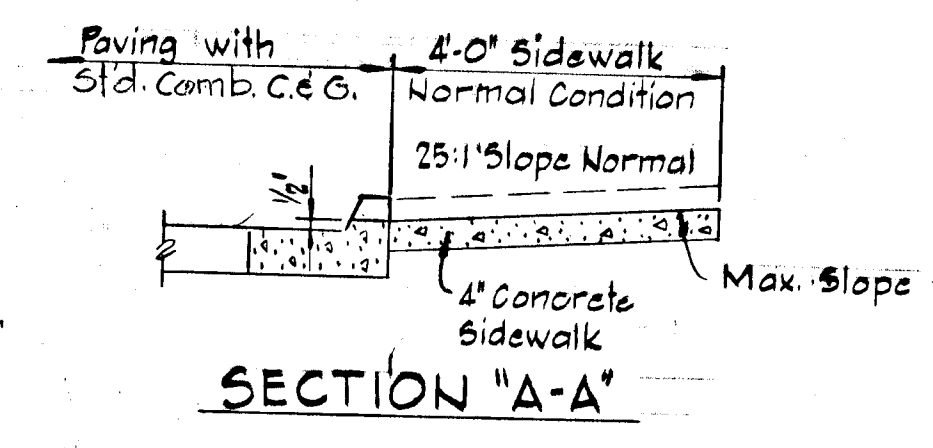
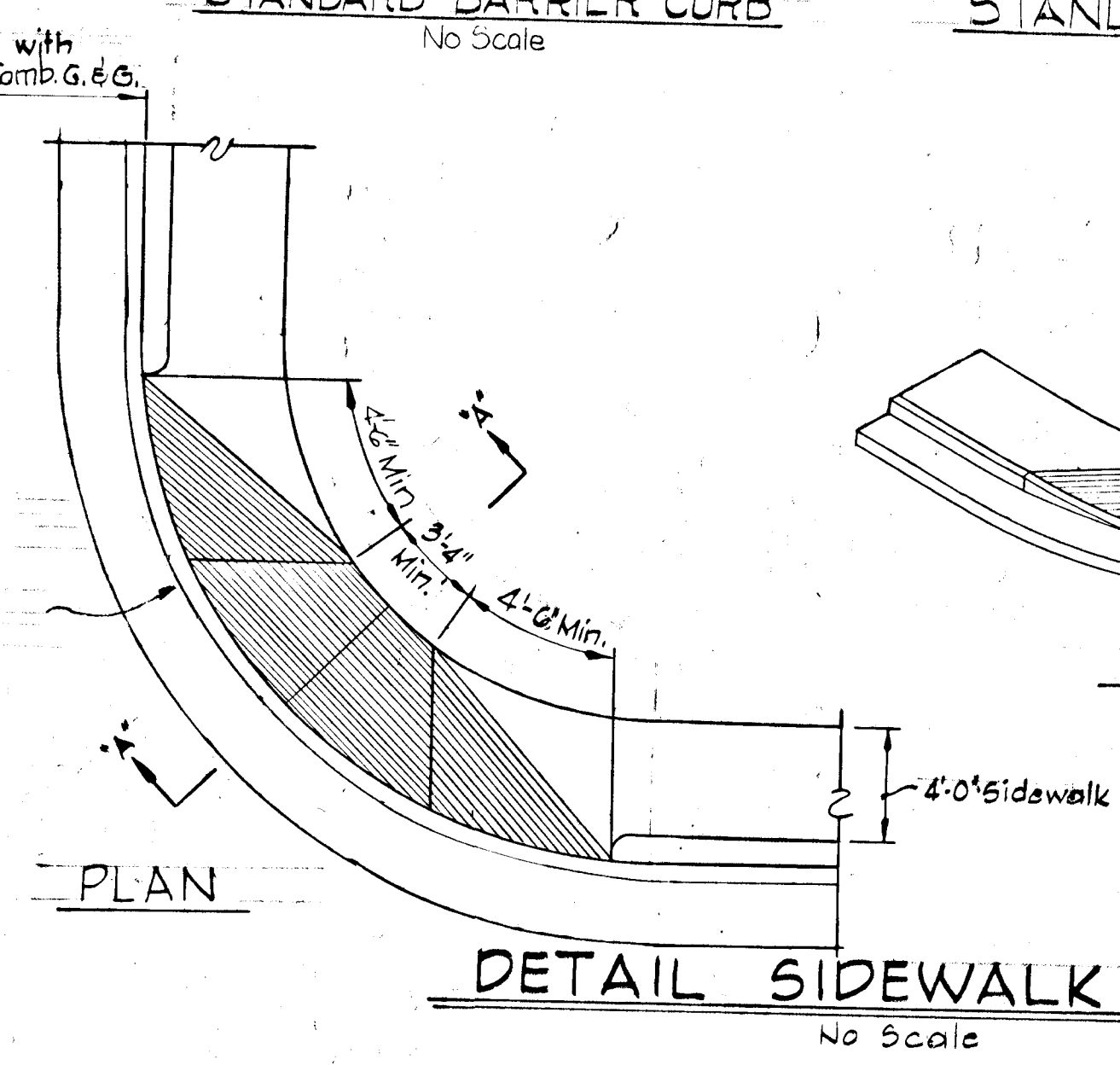
NO.	TYPE	TOP ELEV.	INV. IN	INV. OUT	LOCATION
1-33	Std A-10 Inlet (width=75)	367.00	363.24	363.24	& Inlet 125' back at L.P. Sta. 0+50
4-53	Standard Manhole	354.50	349.75	348.00	See Plan and Profile
5-31	18" Concrete End Section			347.44	See Plan and Profile



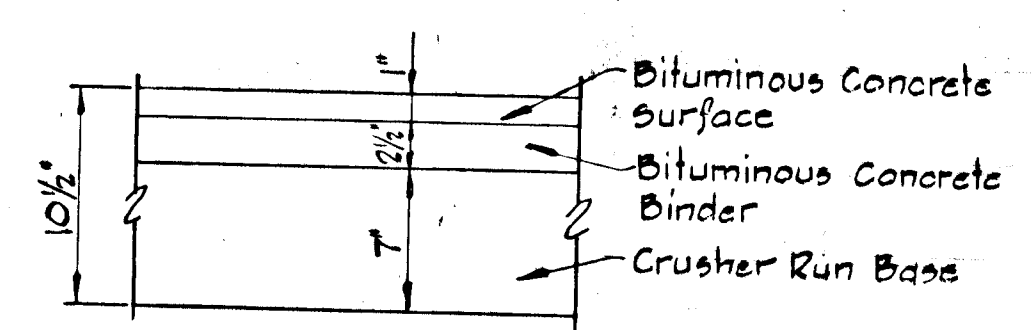
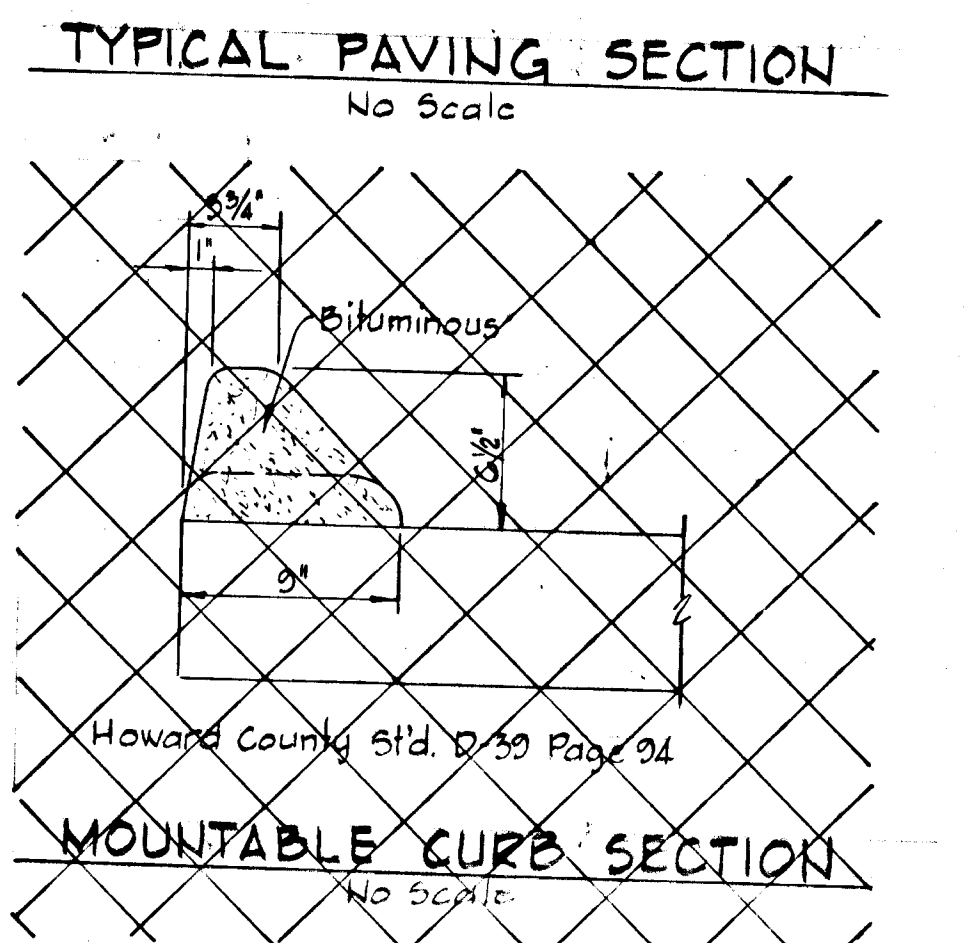
#771



NOTE: ONLY ONE OF THE PAVING SECTIONS SHOWN SHALL BE USED FOR THE ROAD CONSTRUCTION PROPOSED UNDER THIS SUBMISSION.

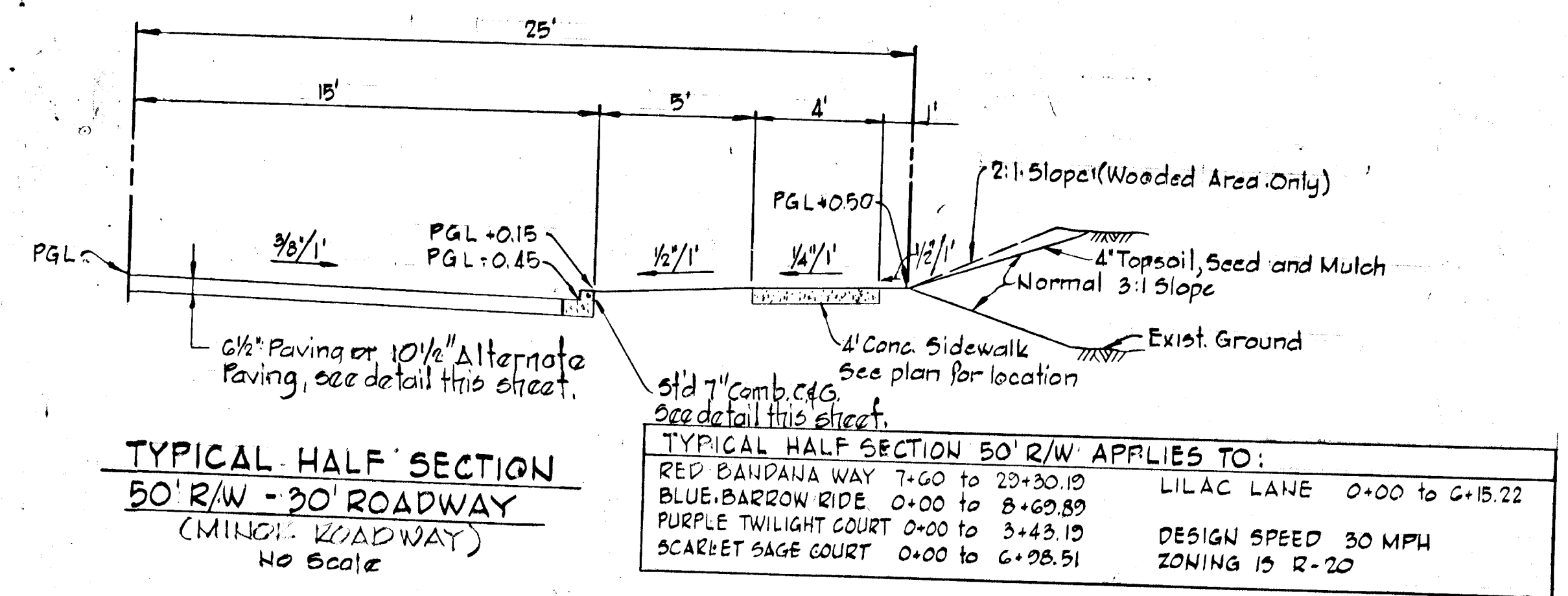


Howard County Std. D-5 Page 60
 Notes:
 1. Base will be primed in accordance with C-30-C as provided in the Howard County Road Construction Code and Standard Specifications
 2. Tack Coat is required in accordance with section C-31-4 of the Howard County Road Construction Code and Standard Specifications.



Howard County Std. D-4 Page 59

- NOTES:
 1. All dimensions are to back of curb.
 2. See plan for sidewalk locations.
 3. Paving is 6 1/2" Bituminous Concrete or alternate as shown.
 4. Standard 7" Combination Curb and Gutter shall be used on all cul-de-sacs.

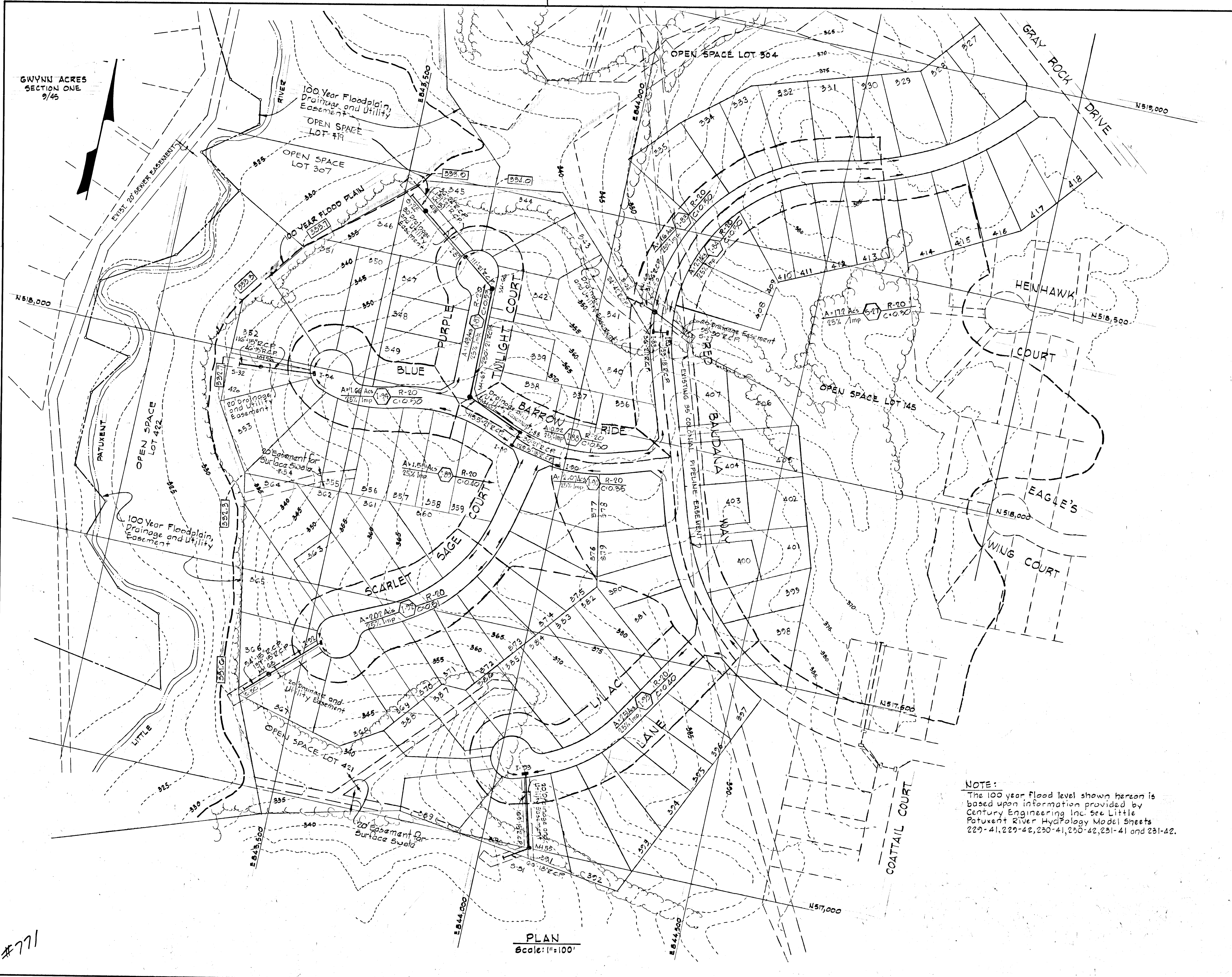


LILAC LANE -
 CUL-DE-SAC DETAILS
 Scale: 1" = 30'

DATE	REV. NO.	REVISION DESCRIPTION
DORSEY HALL 2ND. ELECTION DISTRICT HOWARD COUNTY, MARYLAND		
OWNER AND DEVELOPER HOWARD RESEARCH AND DEVELOPMENT CORPORATION		
PROJECT AREA: SECTION 1 AREA 5		
PROJECT TITLE: ROADWAY DETAILS		
SCALE: AS SHOWN		DATE:
WHITMAN, REARD AND ASSOCIATES ENGINEERS BALTIMORE, MARYLAND 21202		
<i>Kenneth A. McCord</i> KENNETH A. MCCORD REGISTERED ENGINEER NO. 1974		

GWYNN ACRES
SECTION ONE
9/45

DEPARTMENT OF PUBLIC WORKS
Robert E. De... 2-6-81
 CHIEF, BUREAU OF ENGINEERING DATE
 OFFICE OF PLANNING AND ZONING
John W. Muschman 2-5-81
 CHIEF, DIVISION OF LAND DEVELOPMENT DATE

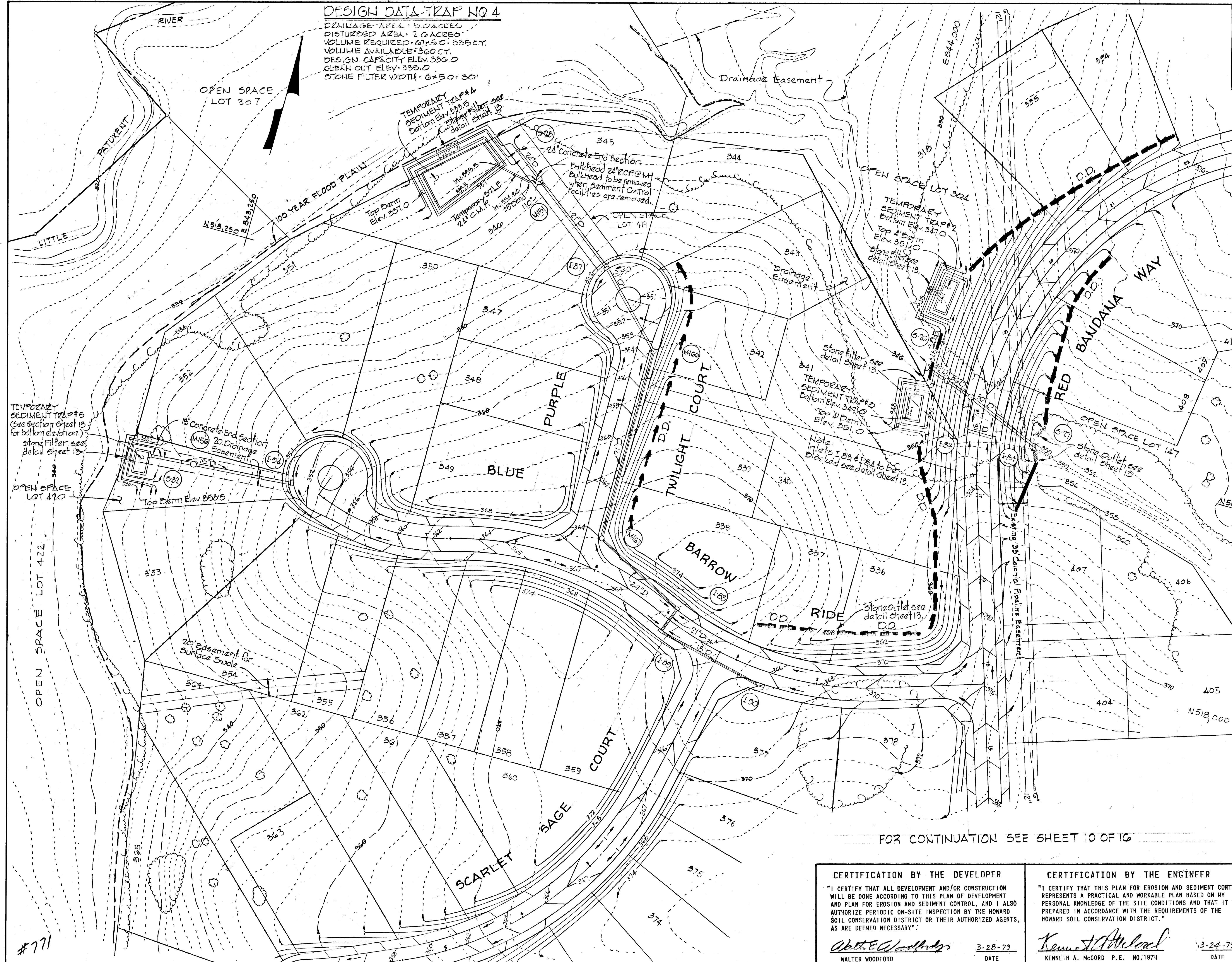


NOTE:
 The 100 year flood level shown hereon is based upon information provided by Century Engineering Inc. see Little Patuxent River Hydrology Model Sheets 229-41, 229-42, 230-41, 230-42, 231-41 and 231-42.

PLAN
 Scale: 1"=100'

DATE	REV. NO.	REVISION DESCRIPTION
		DORSEY HALL 2ND. ELECTION DISTRICT HOWARD COUNTY, MARYLAND
		OWNER AND DEVELOPER HOWARD RESEARCH AND DEVELOPMENT CORPORATION
		PROJECT AREA: SECTION 1 AREA 5
		PROJECT TITLE: DRAINAGE AREA MAP
		SCALE: AS SHOWN DATE:
		WHITMAN, REQUARDT AND ASSOCIATES ENGINEERS BALTIMORE, MARYLAND 21202
		<i>Kenneth A. McCord</i> KENNETH A. MCCORD REGISTERED ENGINEER NO. 1974

#771



DESIGN DATA TRAP NO. 4
 DRAINAGE AREA: 2.0 ACRES
 DISTURBED AREA: 2.0 ACRES
 VOLUME REQUIRED: 67x5.0 = 335 CT.
 VOLUME AVAILABLE: 360 CT.
 DESIGN CAPACITY ELEV: 336.0
 CLEAN-OUT ELEV: 335.0
 STONE FILTER WIDTH: 6x5.0 = 30'

DEPARTMENT OF PUBLIC WORKS
William E. Ryan 2-6-81
 CHIEF, BUREAU OF ENGINEERING DATE
 OFFICE OF PLANNING AND ZONING
William W. McCord 2-3-81
 CHIEF, DIVISION OF LAND DEVELOPMENT DATE

FOR CONTINUATION
 SEE SHEET 12 OF 16

DESIGN DATA TRAP NO. 2
 DRAINAGE AREA: 1.5 ACRES
 DISTURBED AREA: 1.5 ACRES
 VOLUME REQUIRED: 67x1.5 = 100.5 CT.
 VOLUME AVAILABLE: 100.5 CT.
 DESIGN CAPACITY ELEV: 350.0
 CLEAN-OUT ELEV: 349.0
 SIZE OF TRAP @ 347 CONTOUR: 12x30'
 STONE FILTER WIDTH: 6x1.5 = 9.0'

DESIGN DATA TRAP NO. 3
 DRAINAGE AREA: 1.1 ACRES
 DISTURBED AREA: 1.1 ACRES
 VOLUME REQUIRED: 67x1.1 = 73.7 CT.
 VOLUME AVAILABLE: 78 CT.
 DESIGN CAPACITY ELEV: 350.0
 CLEAN-OUT ELEV: 348.75
 SIZE OF TRAP @ 347 CONTOUR: 12x30'
 STONE FILTER WIDTH: 6x1.1 = 6.6'

REVIEWED FOR: HOWARD S.C.D.
 AND MEETS TECHNICAL REQUIREMENTS
James Mitchell 2-3-81
 SIGNATURE DATE
 U.S. SOIL CONSERVATION SERVICE
 THIS DEVELOPMENT PLAN IS APPROVED
 FOR SOIL EROSION AND SEDIMENT
 CONTROL BY THE HOWARD SOIL
 CONSERVATION DISTRICT.
 APPROVED: *William W. McCord* 2-3-81
 HOWARD S.C.D. DATE

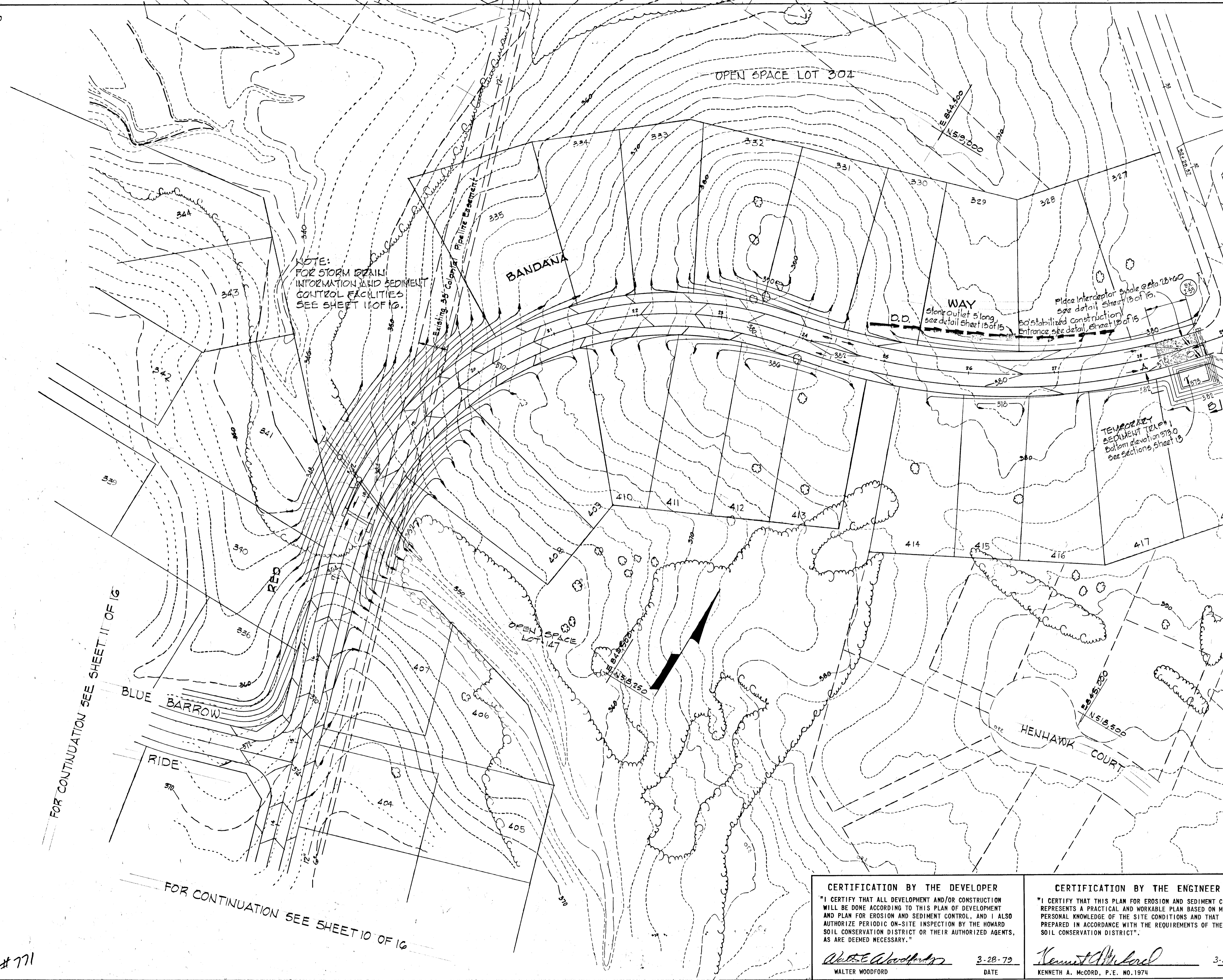
REV. DATE	REV. NO.	REVISION DESCRIPTION
		DORSEY HALL 2ND. ELECTION DISTRICT HOWARD COUNTY, MARYLAND
		OWNER AND DEVELOPER HOWARD RESEARCH AND DEVELOPMENT CORPORATION
		PROJECT AREA SECTION 1 AREA 5
		PROJECT TITLE SEDIMENT CONTROL
		SCALE: 1" = 50' DATE:
		WHITMAN, REQUARDT AND ASSOCIATES ENGINEERS BALTIMORE, MARYLAND 21202
		<i>Kenneth A. McCord</i> KENNETH A. MCCORD REGISTERED ENGINEER NO. 1974

CERTIFICATION BY THE DEVELOPER
 "I CERTIFY THAT ALL DEVELOPMENT AND/OR CONSTRUCTION WILL BE DONE ACCORDING TO THIS PLAN OF DEVELOPMENT AND PLAN FOR EROSION AND SEDIMENT CONTROL, AND I ALSO AUTHORIZE PERIODIC ON-SITE INSPECTION BY THE HOWARD SOIL CONSERVATION DISTRICT OR THEIR AUTHORIZED AGENTS, AS ARE DEEMED NECESSARY."
Walter Woodford 3-28-79
 WALTER 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 3-24-79
 KENNETH A. MCCORD P.E. NO. 1974 DATE

FOR CONTINUATION SEE SHEET 10 OF 16

DEPARTMENT OF PUBLIC WORKS
William S. Riley 2-2-81
 CHIEF, BUREAU OF ENGINEERING DATE
 OFFICE OF PLANNING AND ZONING
John W. Hueselman 2-3-81
 CHIEF, DIVISION OF LAND DEVELOPMENT DATE



FOR CONTINUATION SEE SHEET 11 OF 16

FOR CONTINUATION SEE SHEET 10 OF 16

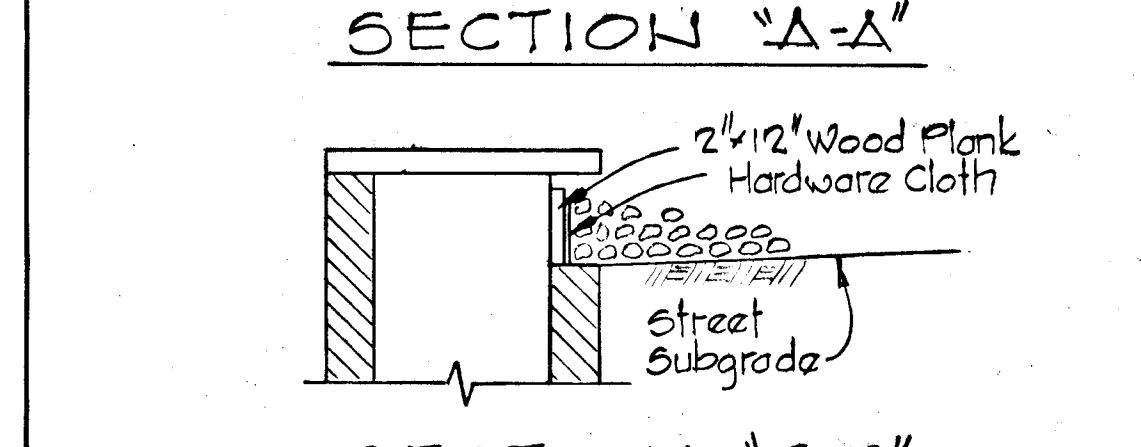
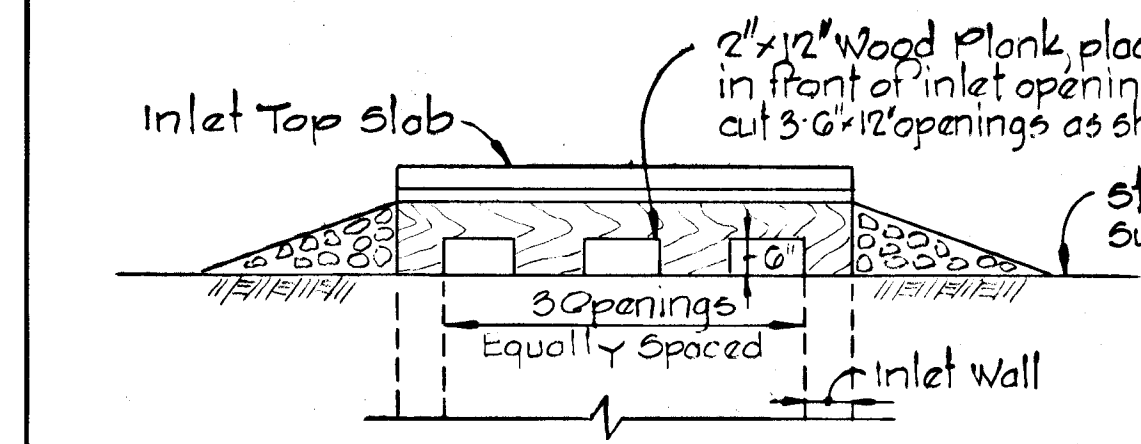
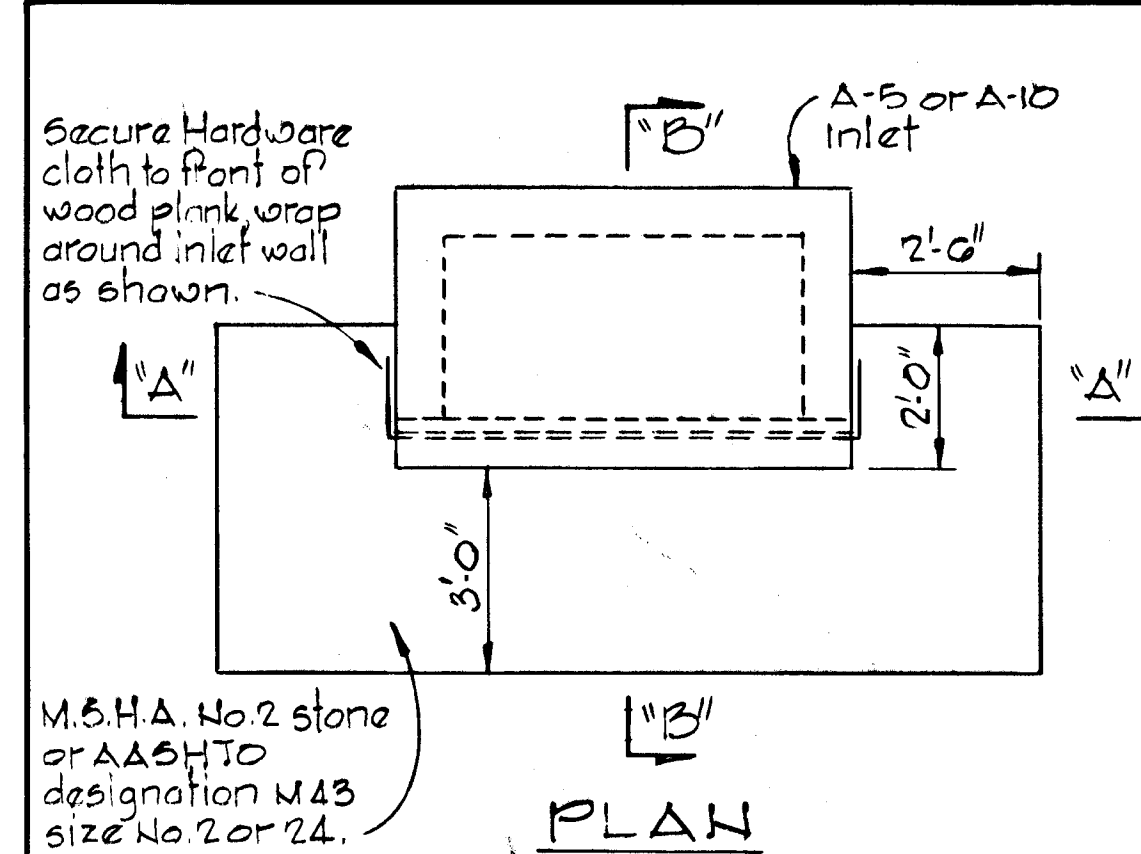
#771

REVIEWED FOR HOWARD S.C.D.
 AND MEETS TECHNICAL REQUIREMENTS
James M. Hahn 2-3-81
 SIGNATURE DATE
 U.S. SOIL CONSERVATION SERVICE
 THIS DEVELOPMENT PLAN IS APPROVED FOR SOIL EROSION AND SEDIMENT CONTROL BY THE HOWARD SOIL CONSERVATION DISTRICT.
 APPROVED *Wm. V. Rame* 2-3-81
 HOWARD S.C.D. DATE

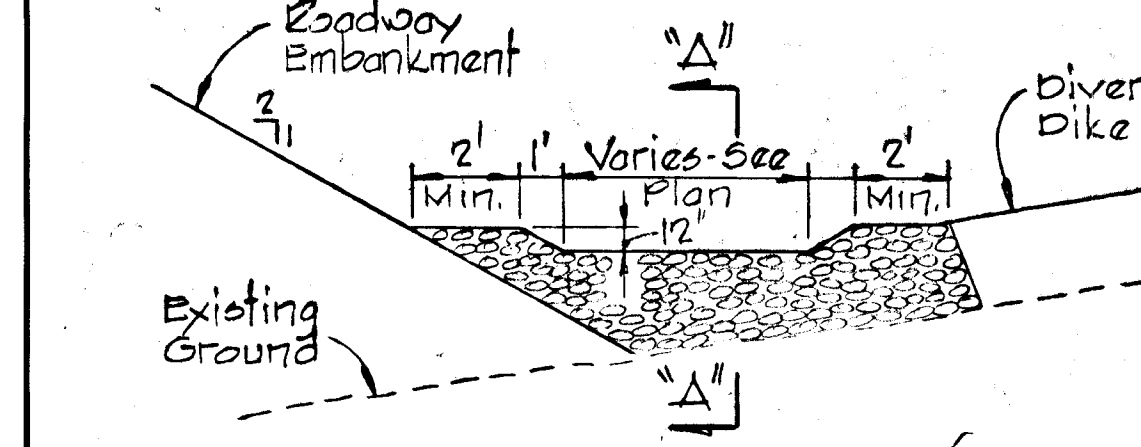
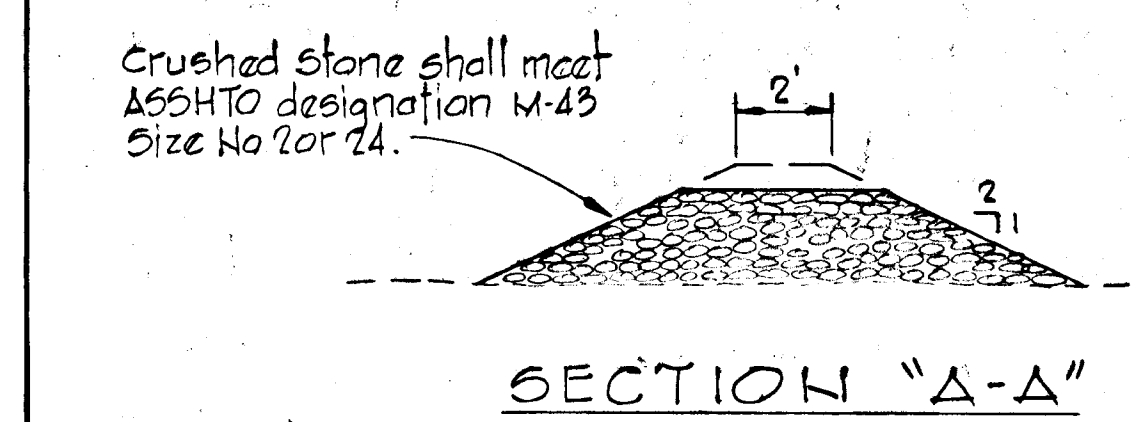
REV. DATE	REV. NO.	REVISION DESCRIPTION
		DORSEY HALL 2ND ELECTION DISTRICT HOWARD COUNTY, MARYLAND
		OWNER AND DEVELOPER HOWARD RESEARCH AND DEVELOPMENT CORPORATION
		PROJECT AREA: SECTION 1 AREA 5
		PROJECT TITLE: SEDIMENT CONTROL
		SCALE: 1" = 50' DATE:
		WHITMAN, REQUARDT AND ASSOCIATES ENGINEERS BALTIMORE, MARYLAND 21202
		<i>Kenneth A. McCord</i> KENNETH A. MCCORD REGISTERED ENGINEER NO. 1974

CERTIFICATION BY THE DEVELOPER
 "I CERTIFY THAT ALL DEVELOPMENT AND/OR CONSTRUCTION WILL BE DONE ACCORDING TO THIS PLAN OF DEVELOPMENT AND PLAN FOR EROSION AND SEDIMENT CONTROL, AND I ALSO AUTHORIZE PERIODIC ON-SITE INSPECTION BY THE HOWARD SOIL CONSERVATION DISTRICT OR THEIR AUTHORIZED AGENTS, AS ARE DEEMED NECESSARY."
Walter E. Woodford 3-28-79
 WALTER WOODFORD DATE

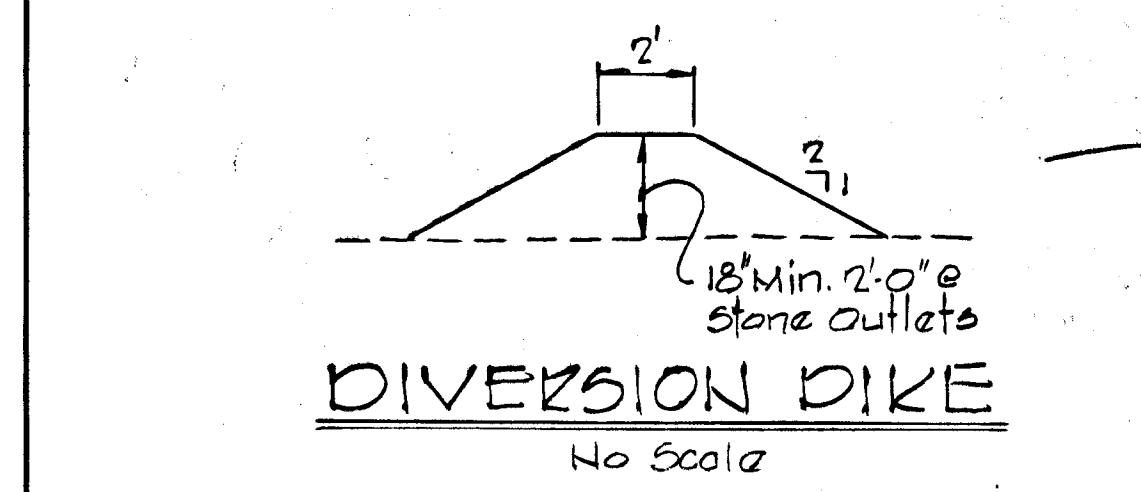
CERTIFICATION BY THE ENGINEER
 "I CERTIFY THAT THIS PLAN FOR EROSION AND SEDIMENT CONTROL REPRESENTS A PRACTICAL AND WORKABLE PLAN BASED ON MY PERSONAL KNOWLEDGE OF THE SITE CONDITIONS AND THAT IT WAS PREPARED IN ACCORDANCE WITH THE REQUIREMENTS OF THE HOWARD SOIL CONSERVATION DISTRICT."
Kenneth A. McCord 3-24-79
 KENNETH A. MCCORD, P.E. NO. 1974 DATE



SECTION "B-B"
 BLOCKED INLET DETAIL
 No Scale

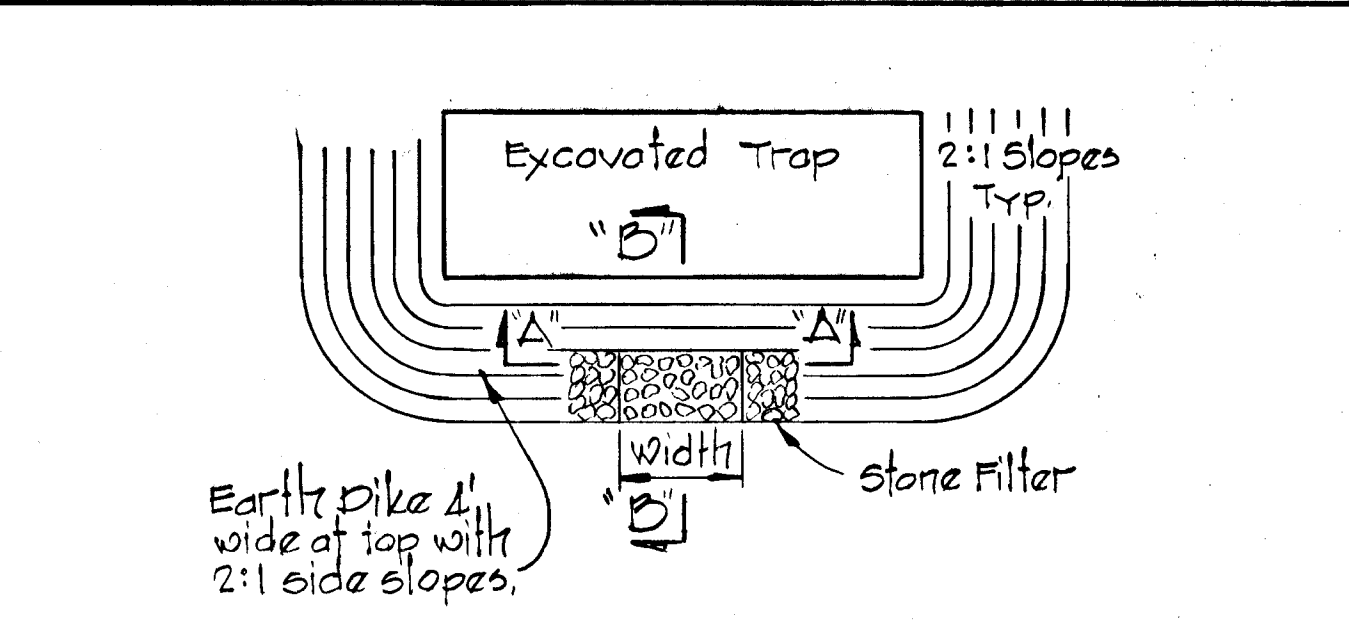


DETAIL ~ STONE OUTLET
 No Scale

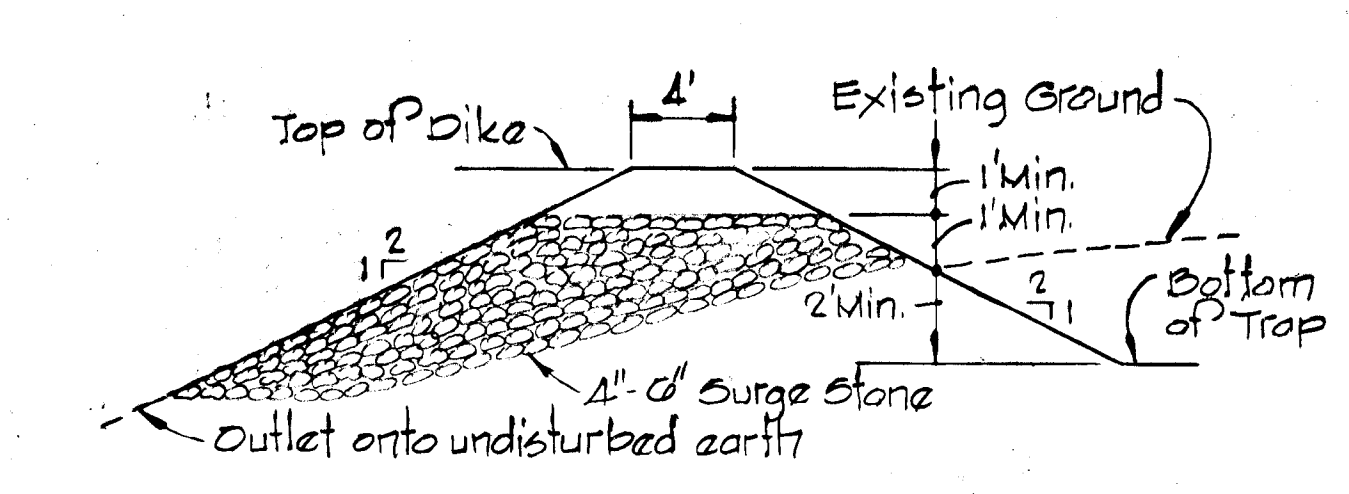
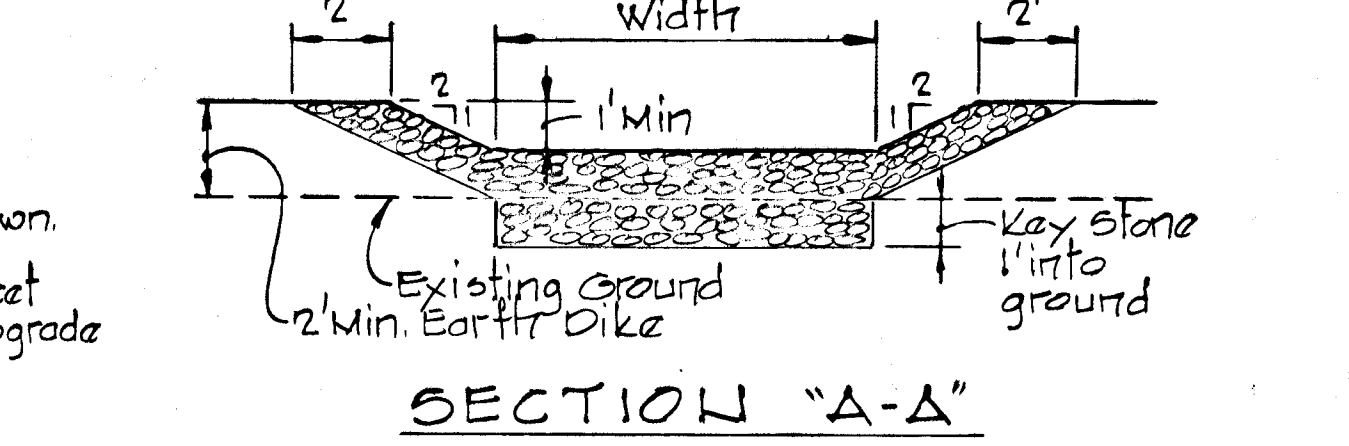


DIVERSION DIKE
 No Scale

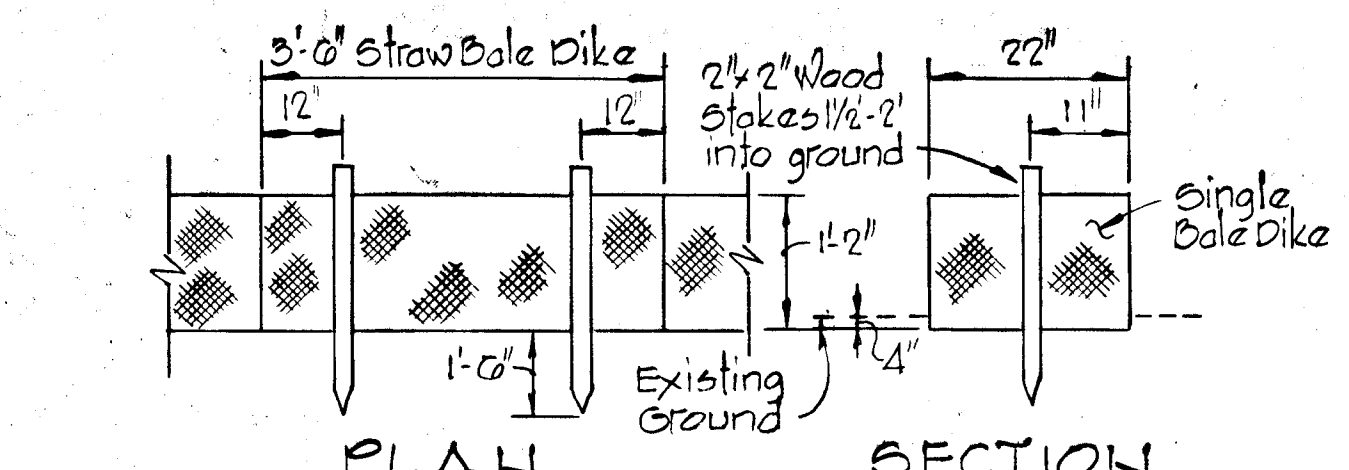
CERTIFICATION BY THE DEVELOPER
 "I CERTIFY THAT ALL DEVELOPMENT AND/OR CONSTRUCTION WILL BE DONE ACCORDING TO THIS PLAN OF DEVELOPMENT AND PLAN FOR EROSION AND SEDIMENT CONTROL, AND I ALSO AUTHORIZE PERIODIC ON-SITE INSPECTION BY THE HOWARD SOIL CONSERVATION DISTRICT OR THEIR AUTHORIZED AGENTS, AS ARE DEEMED NECESSARY."
Walter Woodford
 WALTER WOODFORD
 3-28-79
 DATE



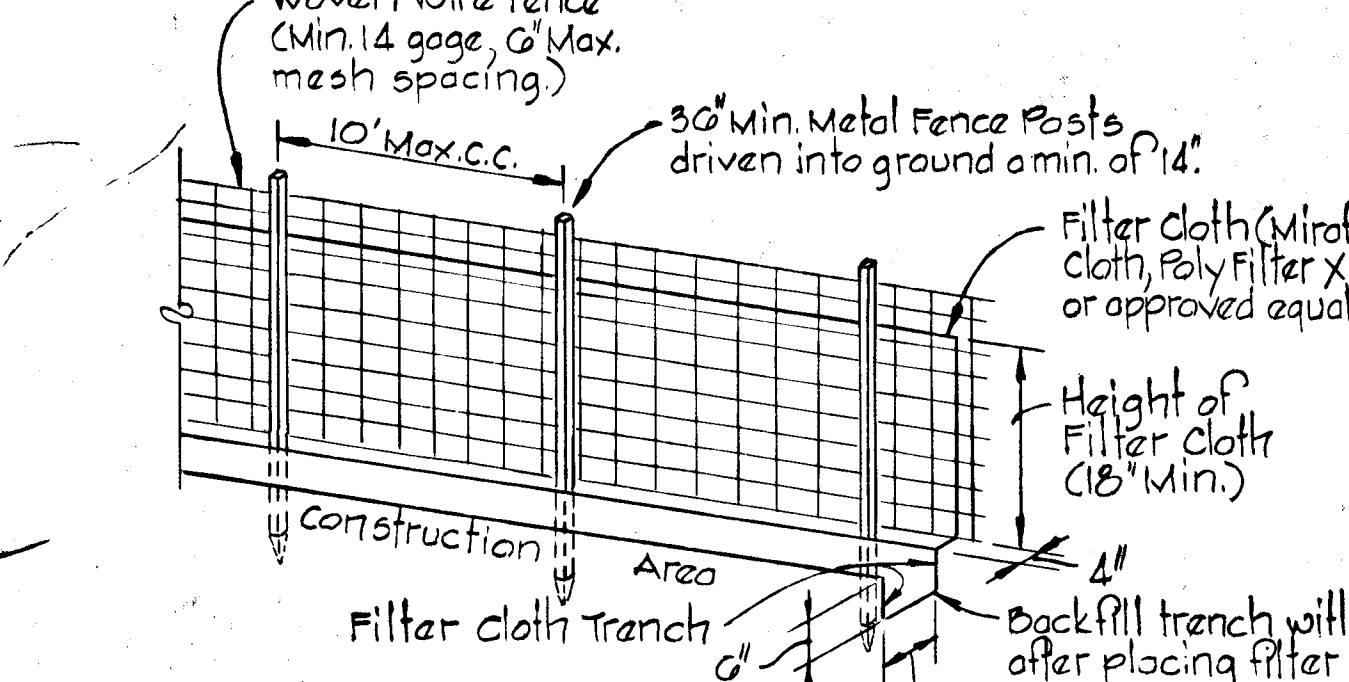
TYPICAL PLAN ~ EXCAVATED TRAP



SECTION "B-B"
 TRAP AND STONE FILTER DETAILS
 No Scale

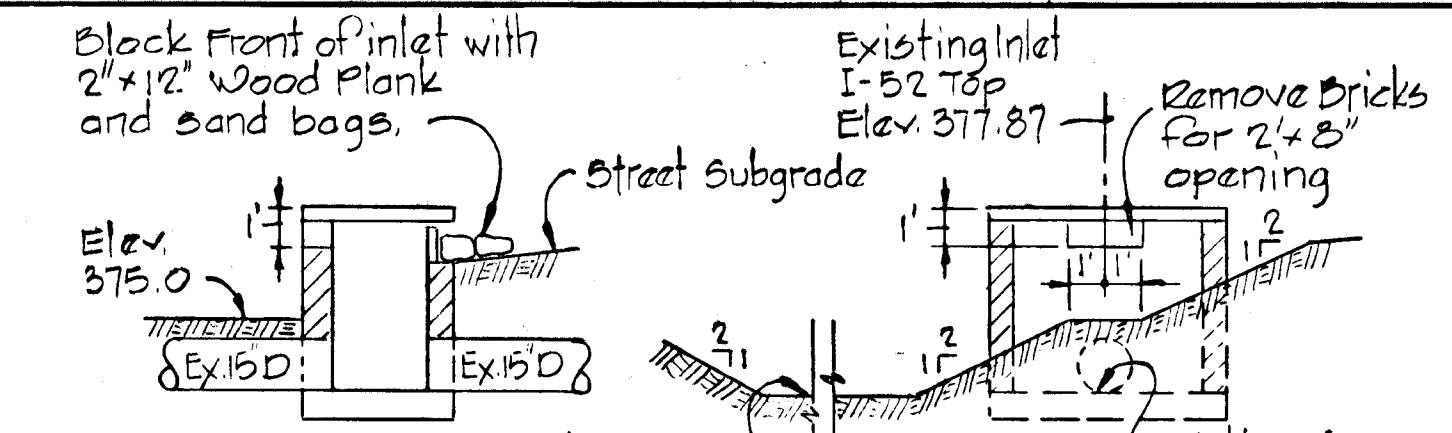


PLAN
 DETAIL ~ STRAW BALE DIKE
 No Scale

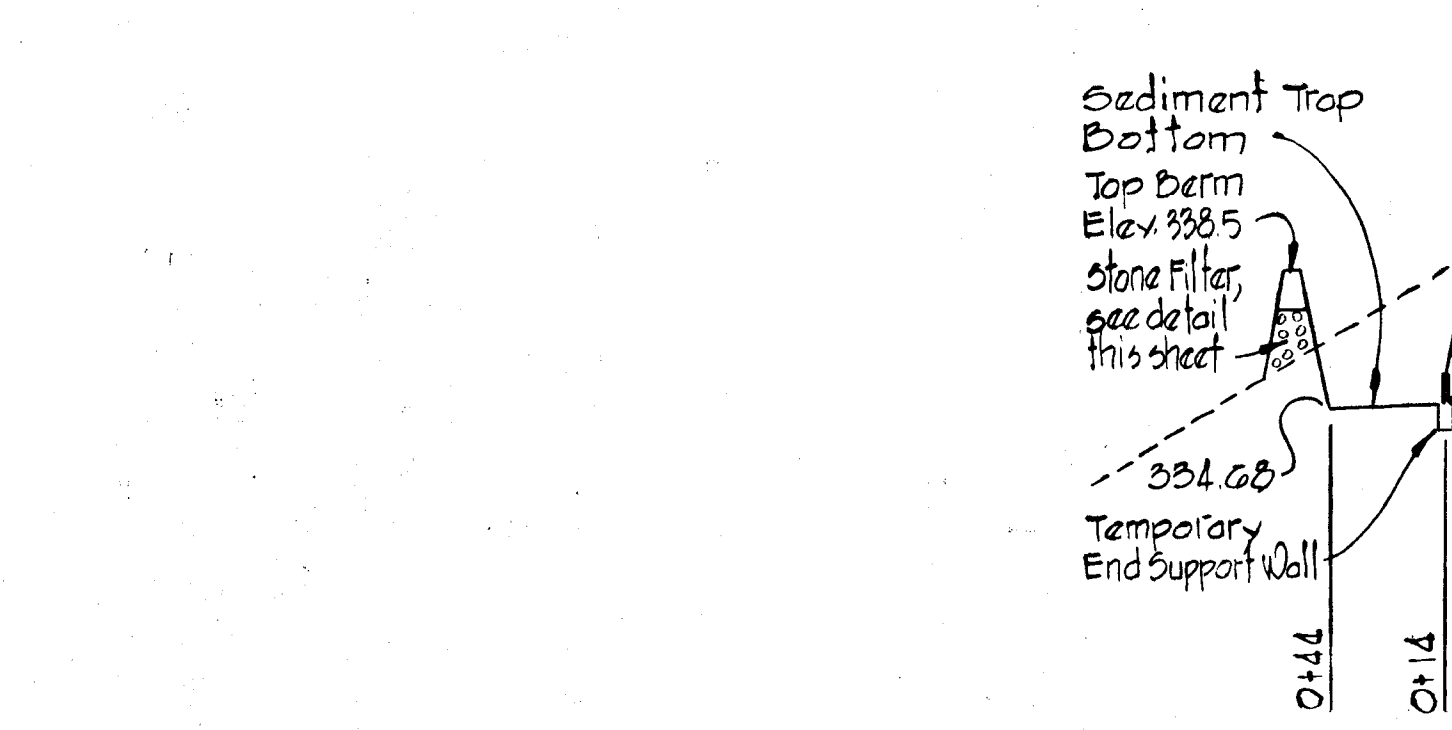
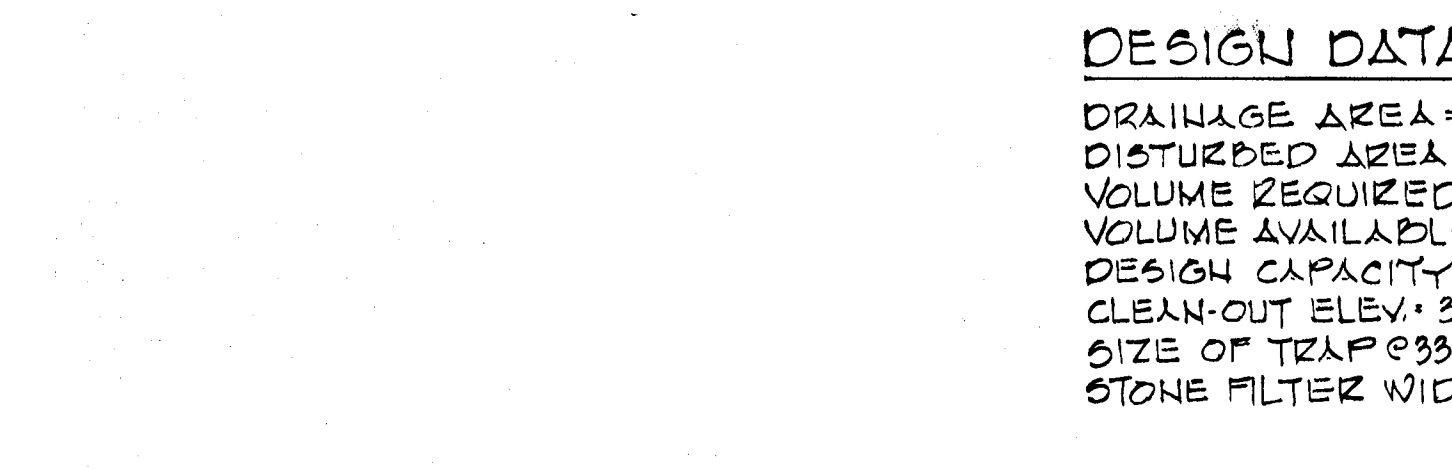


Notes:
 1. Woven wire fence to be fastened securely to fence posts by use of wire ties.
 2. Filter Cloth to be fastened securely to woven wire fence by use of wire ties spaced every 24" x 24".
 3. Silt Fence may be placed in lieu of Straw Bales.
 SILT FENCE DETAIL
 No Scale

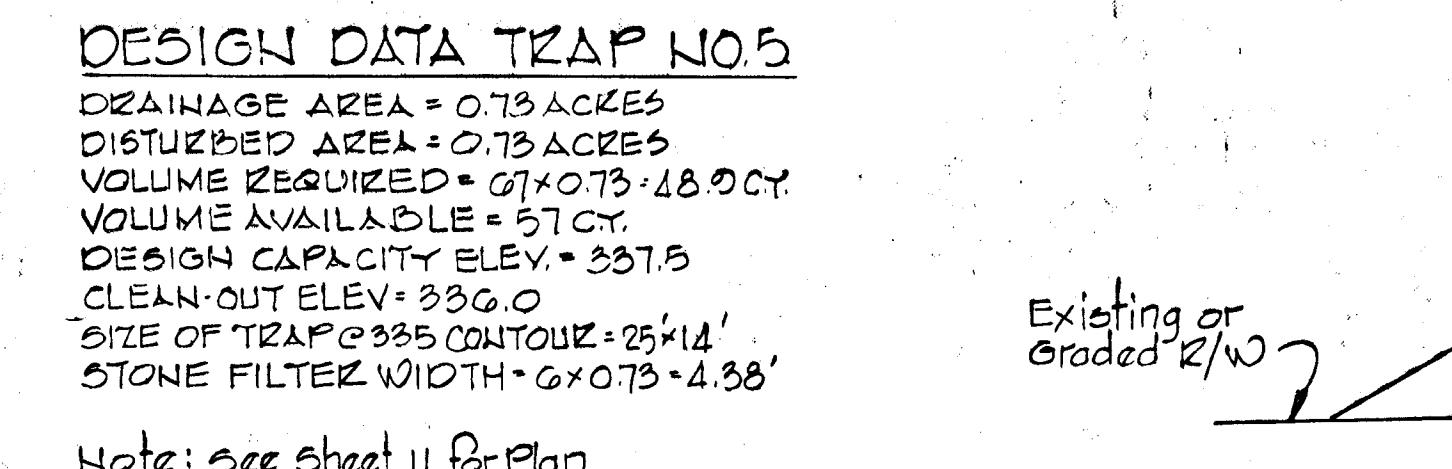
CERTIFICATION BY THE ENGINEER
 "I CERTIFY THAT THIS PLAN FOR EROSION AND SEDIMENT CONTROL REPRESENTS A PRACTICAL AND WORKABLE PLAN BASED ON MY PERSONAL KNOWLEDGE OF THE SITE CONDITIONS AND THAT IT WAS PREPARED IN ACCORDANCE WITH THE REQUIREMENTS OF THE HOWARD SOIL CONSERVATION DISTRICT."
Kenneth A. McCord
 KENNETH A. MCCORD, P.E. No. 1974
 3-24-79
 DATE



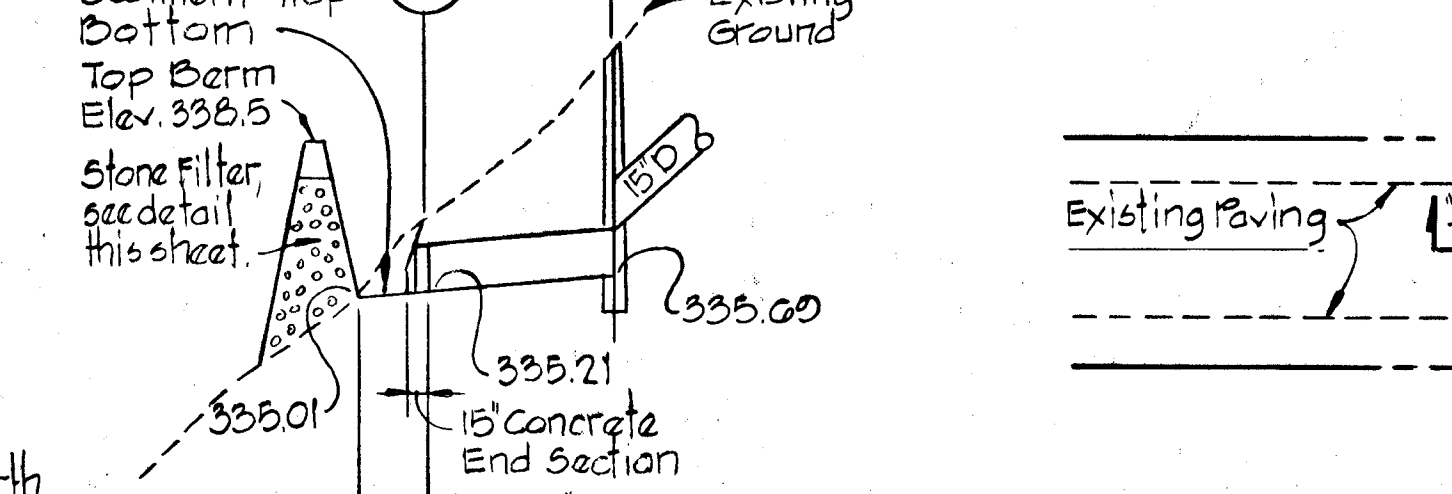
SECTION "B-B" - TRAP NO. 1



SECTION "A-A"
 TRAP NO. 6



SECTION "A-A"
 TRAP NO. 5



SECTION "A-A"
 TRAP NO. 5

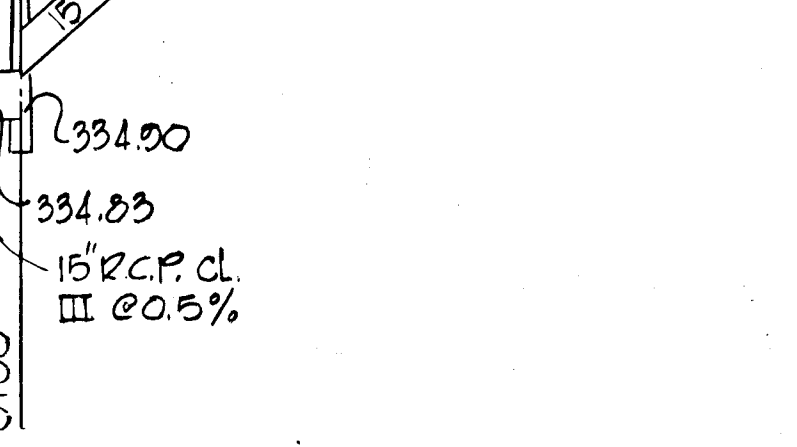
CERTIFICATION BY THE ENGINEER
 THIS DEVELOPMENT PLAN IS APPROVED FOR SOIL EROSION AND SEDIMENT CONTROL BY THE HOWARD SOIL CONSERVATION DISTRICT.
 APPROVED: *Walter Woodford* 3-28-79
 HOWARD S.C.D. DATE

DESIGN DATA TRAP NO. 1
 DRAINAGE AREA = 2.4 ACRES
 DISTURBED AREA = 0.8 ACRES
 VOLUME REQUIRED = 67 x 0.8 = 53.6 CY.
 VOLUME AVAILABLE = 109 CY.
 DESIGN CAPACITY ELEV. = 376.87
 CLEAN-OUT ELEV. = 374.5
 SIZE OF TRAP @ BOTTOM = 33' x 20'

Note:
 See sheet 12 for Plan location of Trap No. 1

DESIGN DATA TRAP NO. 6
 DRAINAGE AREA = 0.8 ACRES
 DISTURBED AREA = 0.8 ACRES
 VOLUME REQUIRED = 67 x 0.8 = 53.6 CY.
 VOLUME AVAILABLE = 56 CY.
 DESIGN CAPACITY ELEV. = 337.5
 CLEAN-OUT ELEV. = 336.5
 SIZE OF TRAP @ 335 CONTOUR = 30' x 12'
 STONE FILTER WIDTH = 6 x 0.8 = 4.8'

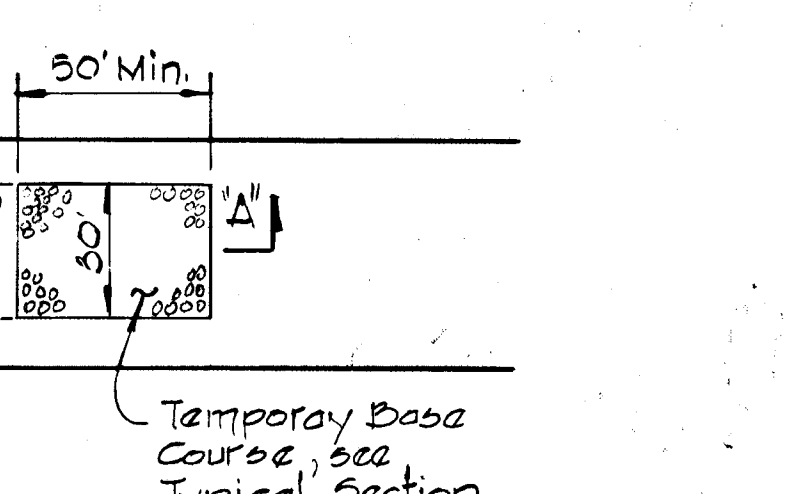
Notes:
 1. See sheet 12 for Plan location of Trap No. 6.
 2. Remainder of Storm Drain System to be built after removal of Sediment Trap.



SECTION "A-A"
 TRAP NO. 6

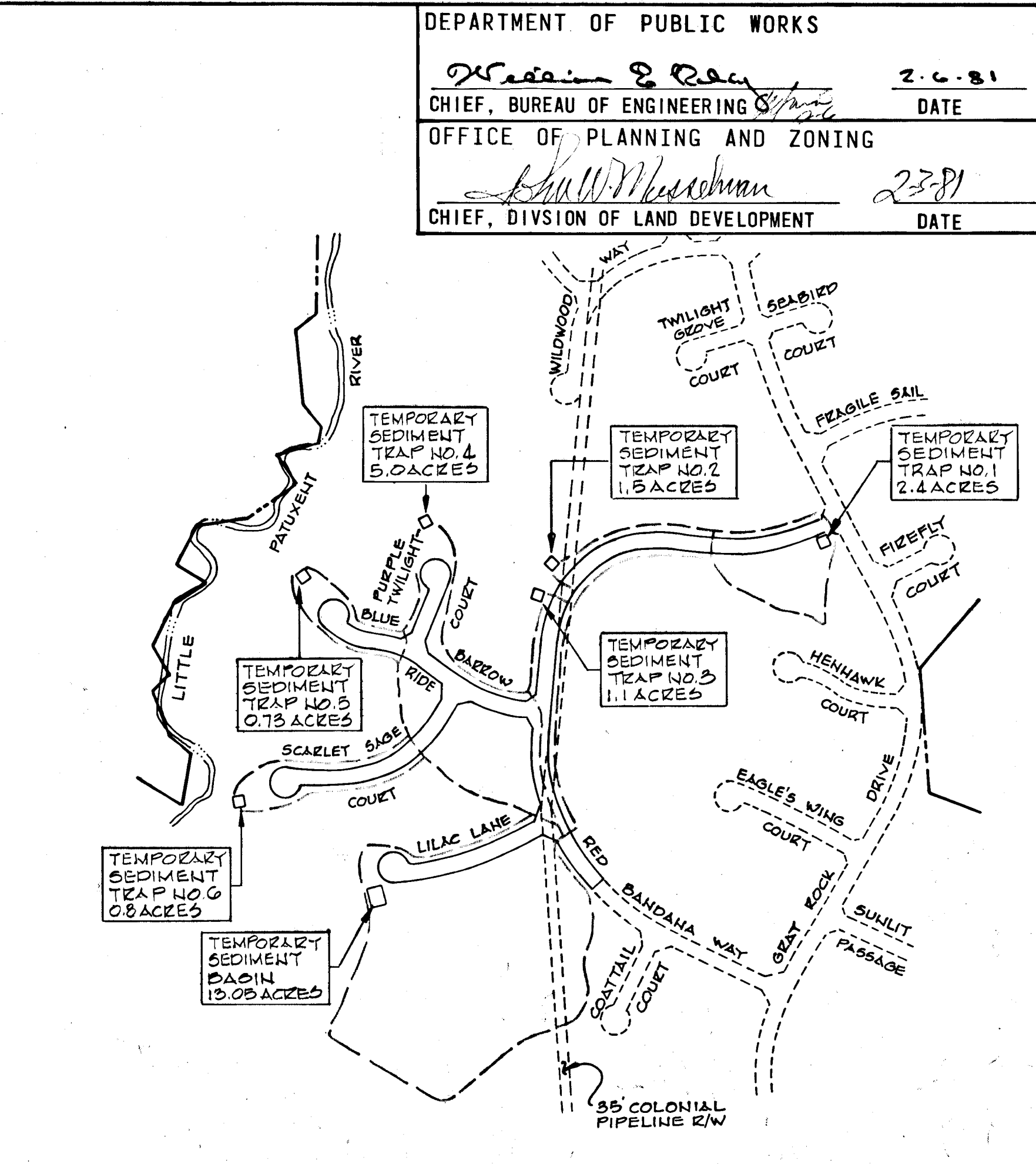
DESIGN DATA TRAP NO. 5
 DRAINAGE AREA = 0.73 ACRES
 DISTURBED AREA = 0.73 ACRES
 VOLUME REQUIRED = 67 x 0.73 = 48.9 CY.
 VOLUME AVAILABLE = 57 CY.
 DESIGN CAPACITY ELEV. = 337.5
 CLEAN-OUT ELEV. = 336.0
 SIZE OF TRAP @ 335 CONTOUR = 25' x 14'
 STONE FILTER WIDTH = 6 x 0.73 = 4.38'

Note: see sheet 11 for Plan location of Trap No. 5.



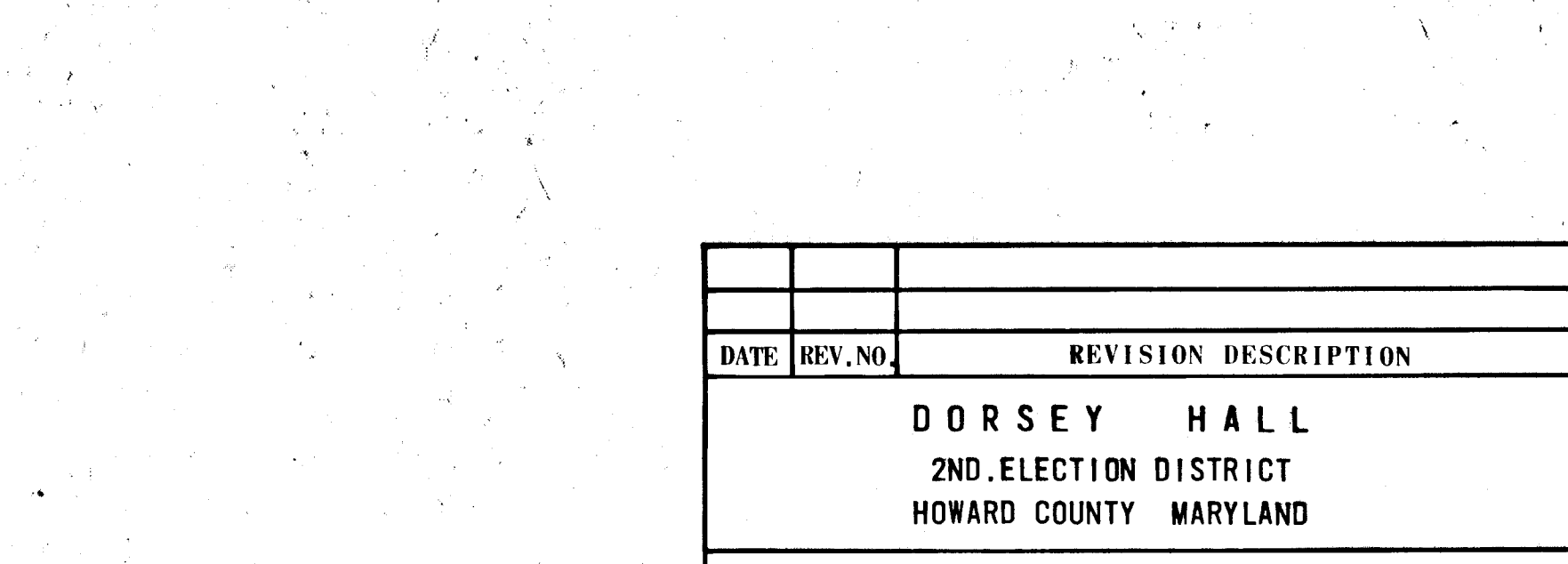
SECTION "A-A"
 TRAP NO. 5

CERTIFICATION BY THE ENGINEER
 REVIEWED FOR HOWARD S.C.D. NAME AND MEETS TECHNICAL REQUIREMENTS
 APPROVED: *James M. Hahn* 2-3-81
 HOWARD S.C.D. DATE



DRAINAGE AREA MAP
 Scale 1" = 400'

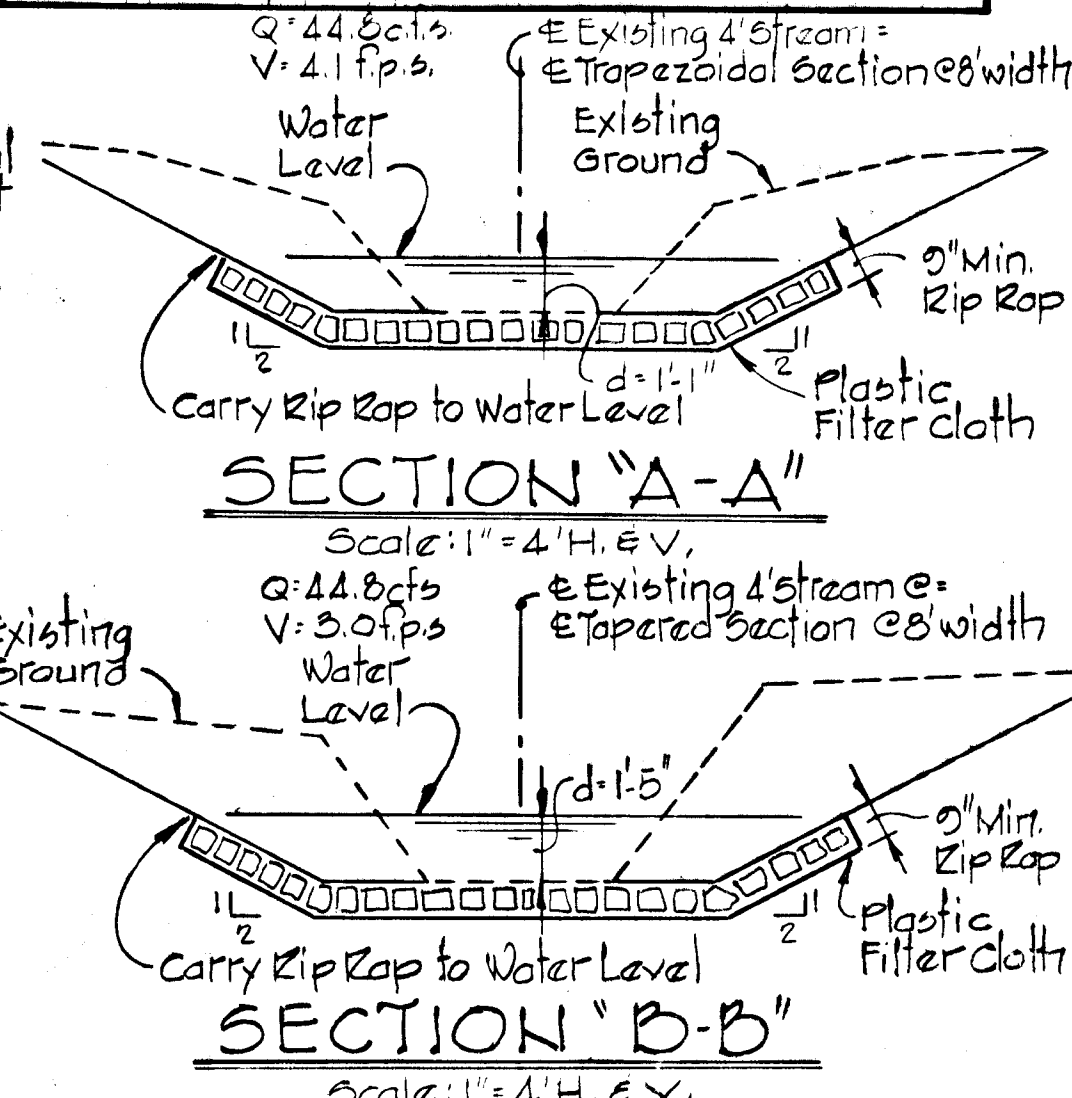
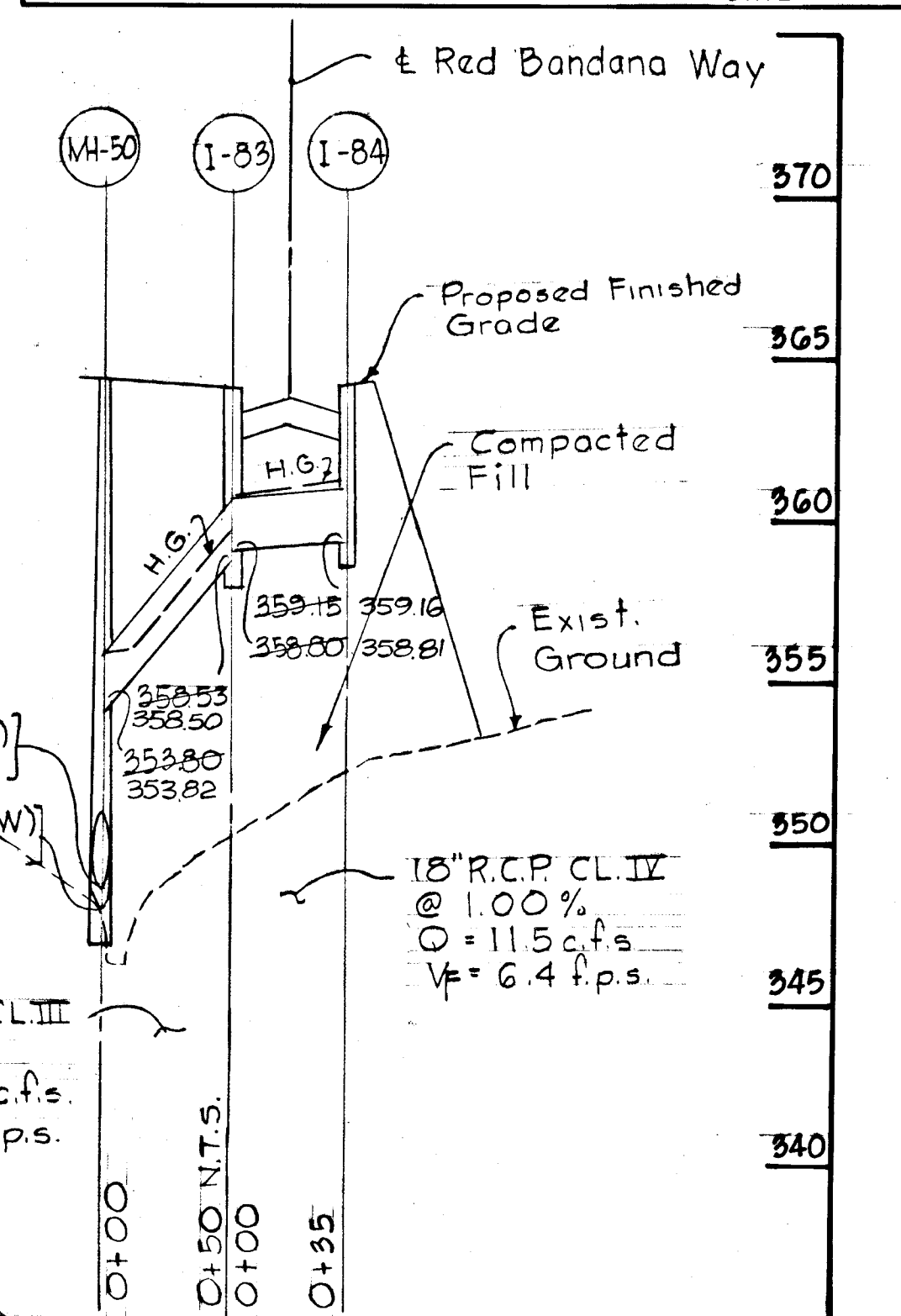
- GENERAL NOTES**
- See Sequence of Construction on Sheet 1.
 - Prior to starting any work the contractor shall notify the Howard County Sediment Control Division at least 24 hours in advance of notice to begin.
 - The Sediment Control measures shall be constructed as shown on these drawings.
 - All diversion dikes shall be seeded as specified in notes 5 and 6. All other surfaces to be permanently seeded. See Specifications on Sheet 1.
 - The diversion dikes shall be hydroseeded as follows:
 - Ground Limestone (50#/1000')
 - Fertilizer 10-10-10 (25#/1000')
 - Seed Italian Ryegrass (40#/Acre)
 - Mulch with straw at the rate of 50#/Acre or one ton/Acre. Anchor with asphalt at the rate of 450 gallons/Acre.
 - Silt fence may be substituted for straw Bale DiKE, see detail this sheet.



SECTION "A-A"
 STABILIZED CONSTRUCTION
 ENTRANCE DETAIL
 Scale: As Shown

CERTIFICATION BY THE ENGINEER
 REVIEWED FOR HOWARD S.C.D. NAME AND MEETS TECHNICAL REQUIREMENTS
 APPROVED: *Kenneth A. McCord* 2-3-81
 HOWARD S.C.D. DATE

DATE	REV. NO.	REVISION DESCRIPTION
		DORSEY HALL 2ND. ELECTION DISTRICT HOWARD COUNTY MARYLAND
		OWNER AND DEVELOPER HOWARD RESEARCH AND DEVELOPMENT CORPORATION
		PROJECT AREA: SECTION 1 AREA 5
		PROJECT TITLE: SEDIMENT CONTROL DETAILS
		SCALE: AS SHOWN DATE:
		WHITMAN, REQUARDT AND ASSOCIATES ENGINEERS BALTIMORE, MARYLAND 21202
		<i>Kenneth A. McCord</i> KENNETH A. MCCORD REGISTERED ENGINEER NO. 1974



DATE	REV. NO.	REVISION DESCRIPTION
7-24-81	1	As per State of Md. Comments

DORSEY HALL
 2ND ELECTION DISTRICT
 HOWARD COUNTY, MARYLAND

OWNER AND DEVELOPER
 HOWARD RESEARCH AND DEVELOPMENT CORPORATION

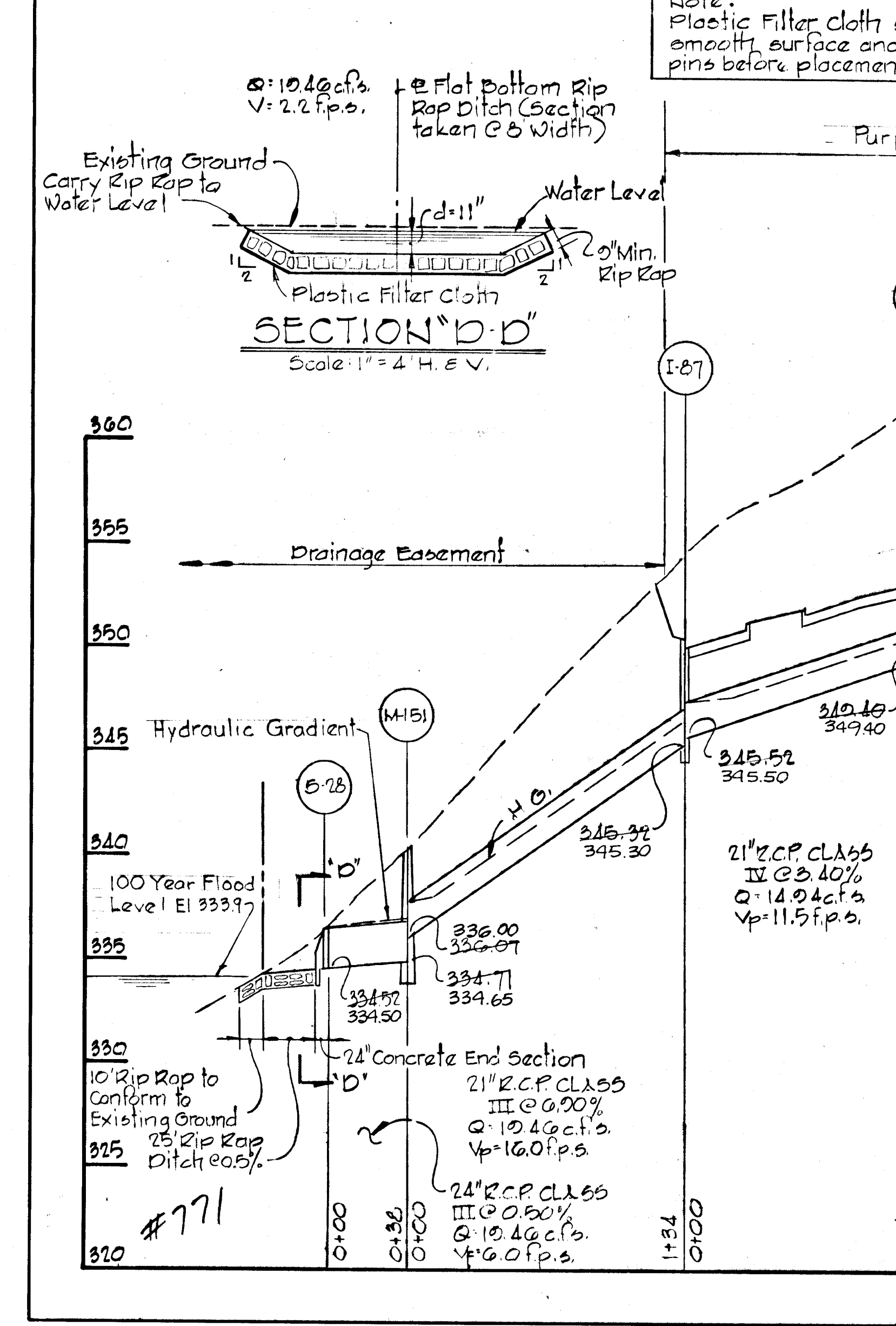
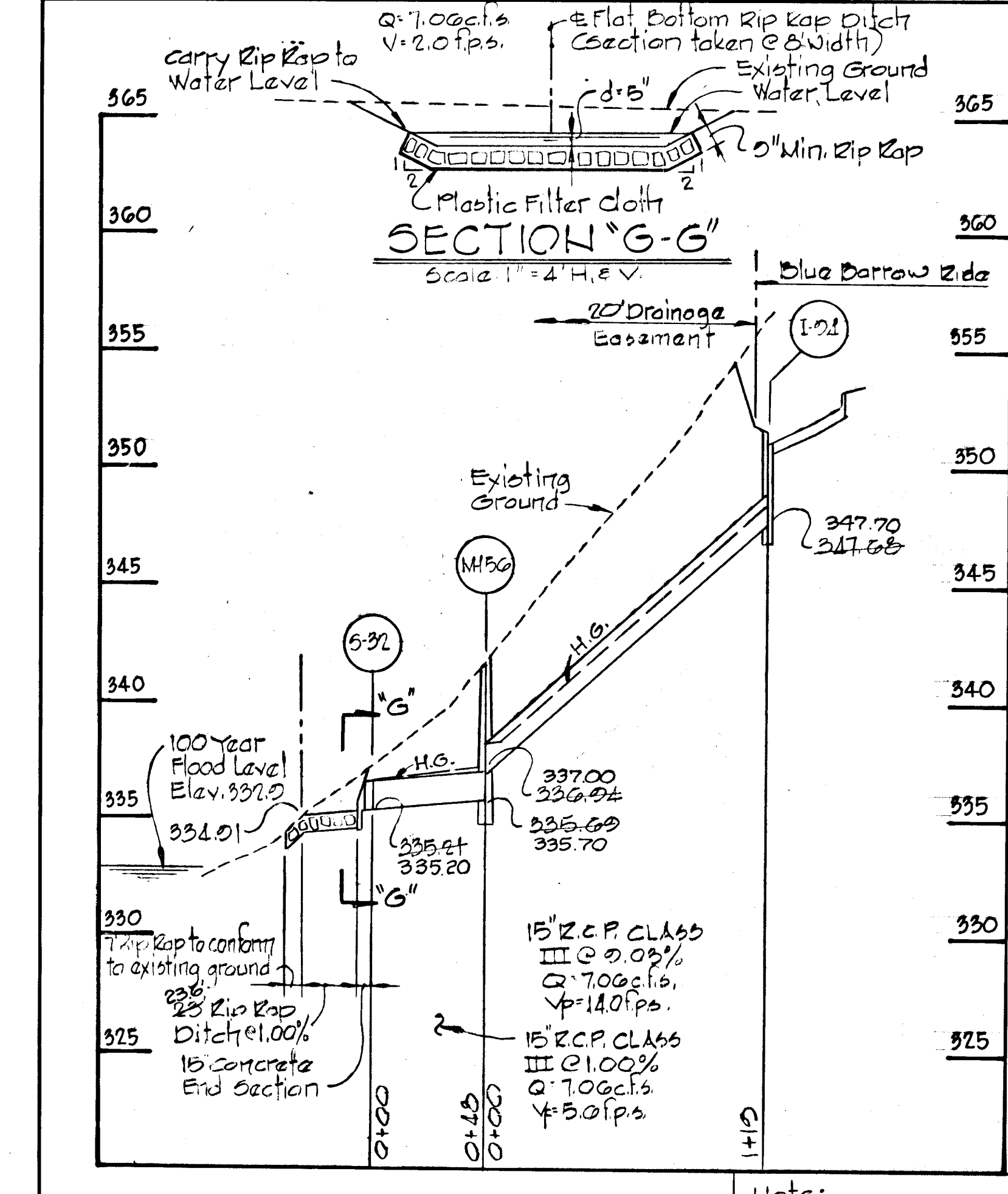
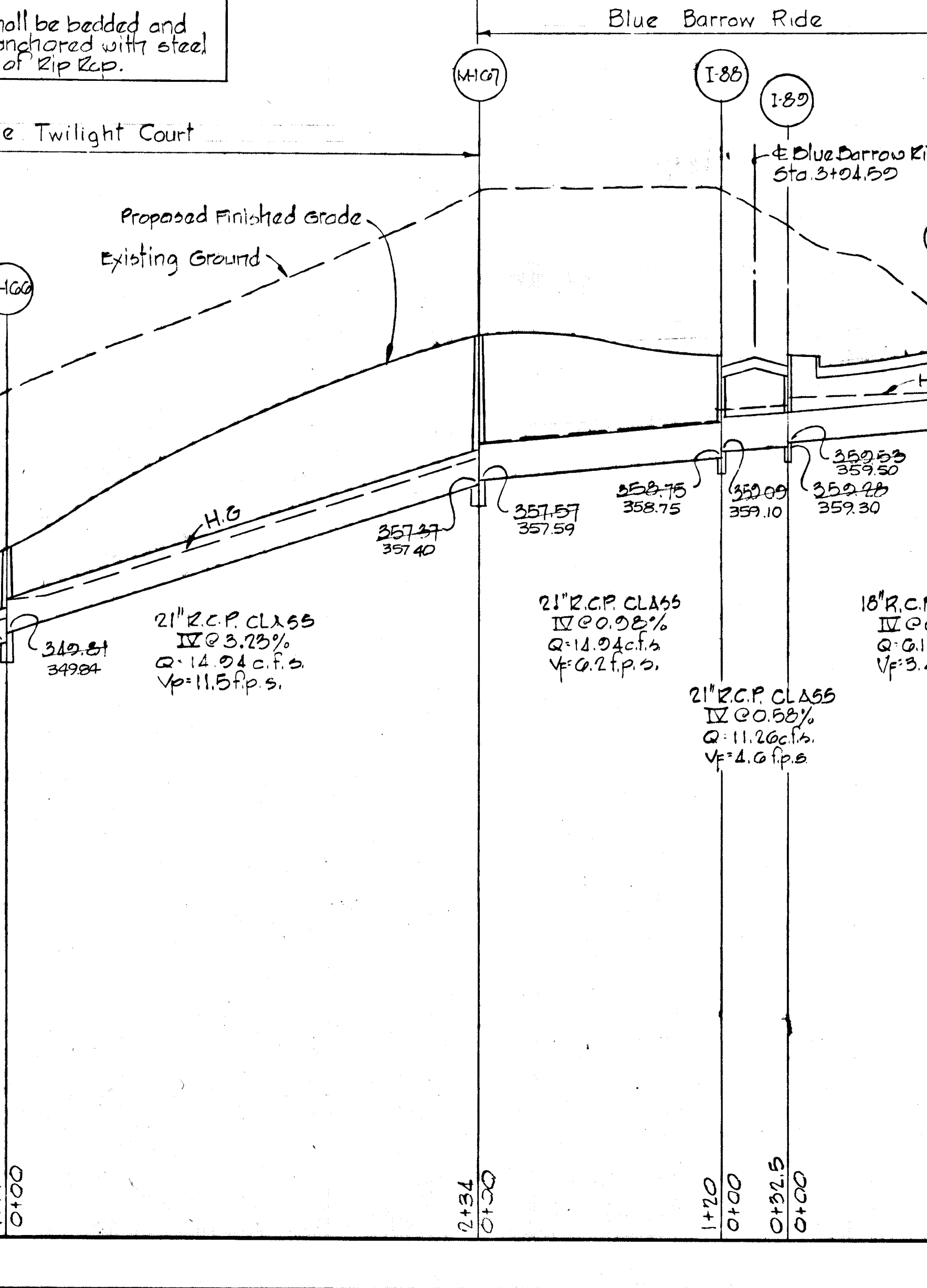
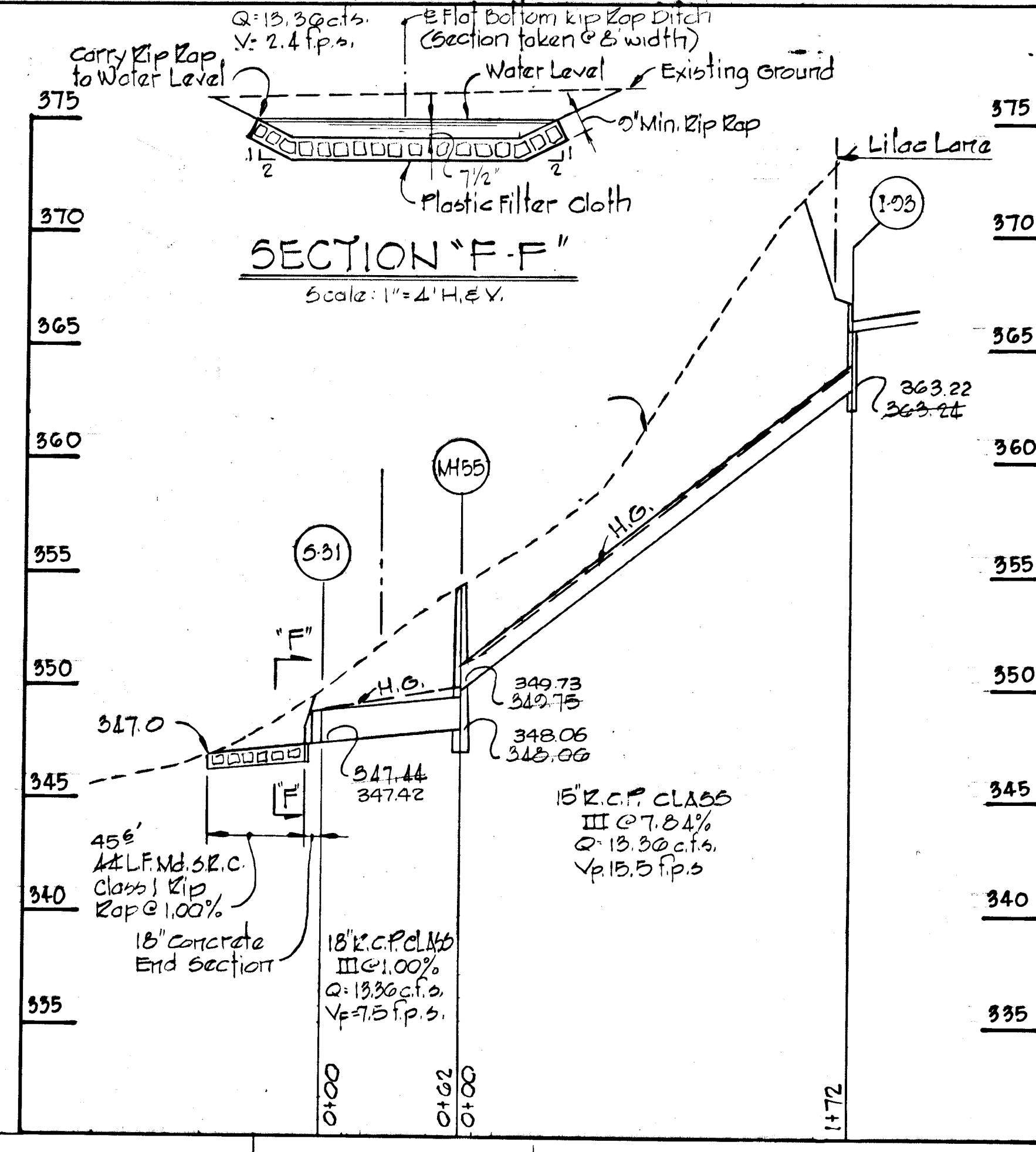
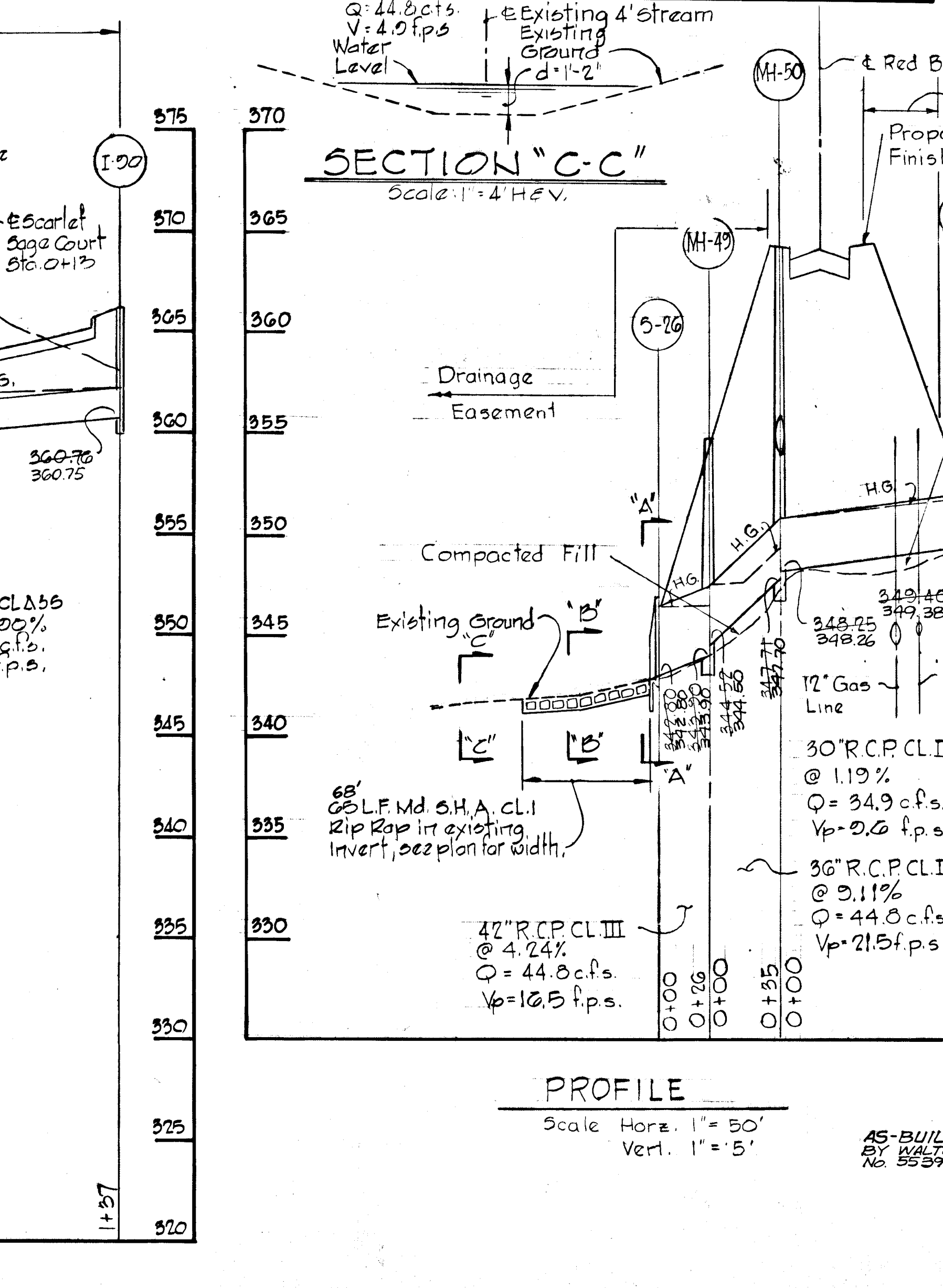
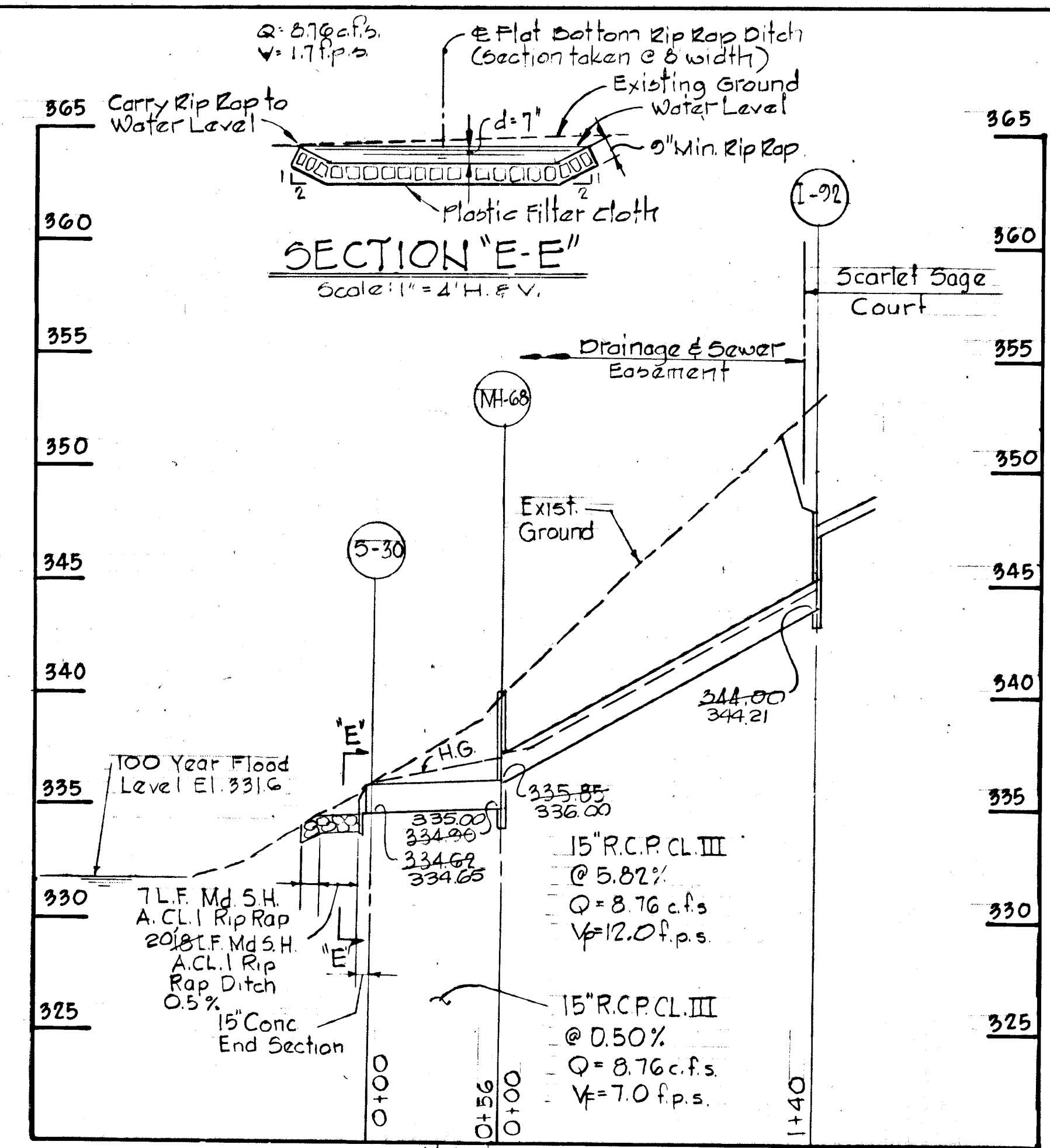
PROJECT AREA:
 SECTION 1 AREA 5

PROJECT TITLE:
 STORM DRAIN PROFILES

SCALE: AS SHOWN DATE:

WHITMAN, REQUARDT AND ASSOCIATES
 ENGINEERS
 BALTIMORE, MARYLAND 21202

Kenneth A. McCord
 KENNETH A. MCCORD
 REGISTERED ENGINEER
 NO. 1974



Note:
 Plastic Filter Cloth shall be bedded and smoothed surface and anchored with steel pins before placement of Rip Rap.

