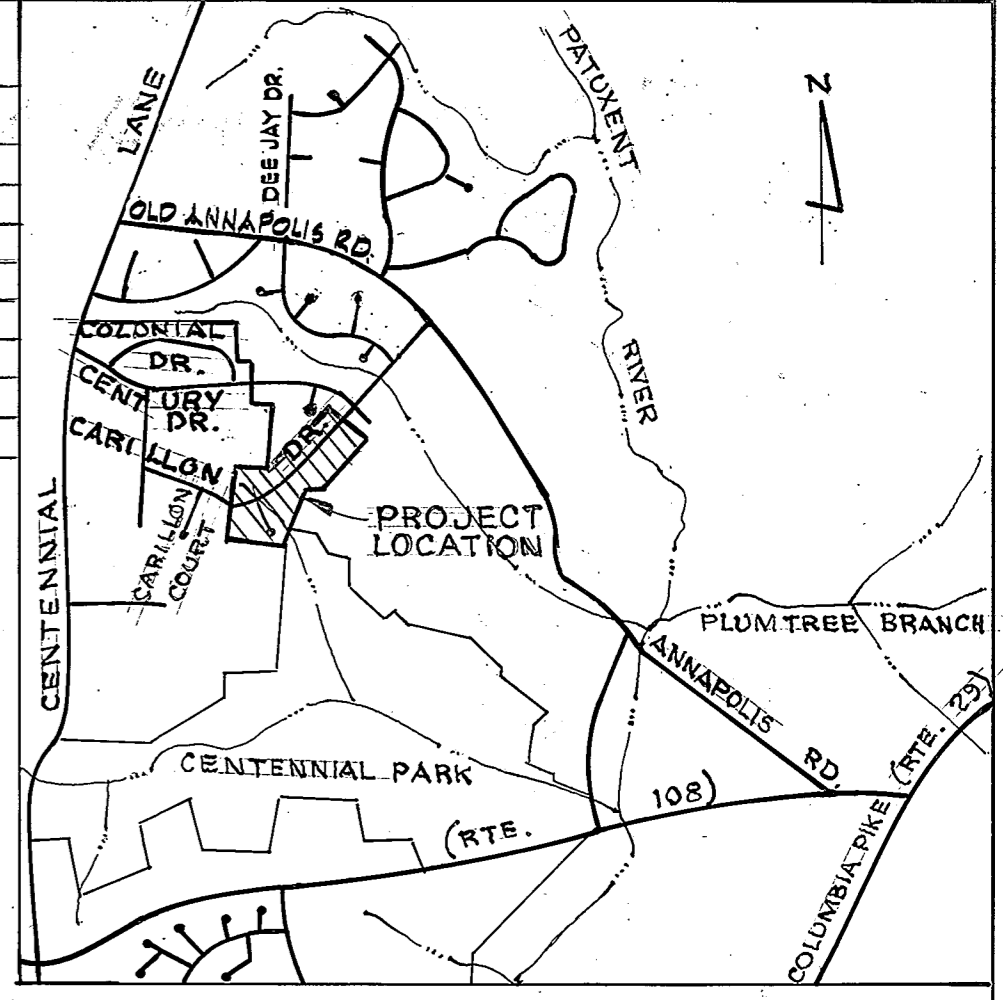




LOCATION PLAN
Scale: 1" = 200'

SHEET INDEX	
SHEET NO.	DESCRIPTION
1.	TITLE SHEET
2.	PLAN AND PROFILE - CARILLON DRIVE
3.	PLAN AND PROFILE - CARILLON DRIVE
4.	PLAN AND PROFILE - LA BELLE COURT
5.	STORM DRAIN PROFILES
6.	STORM DRAIN DETAILS
7.	DRAINAGE AREA MAP (1" = 200')
8.	DRAINAGE AREA MAP (1" = 60')



VICINITY MAP
Scale: 1" = 2,000'

GENERAL NOTES

- All work shall be performed in accordance with the Howard County Road Construction Code and Standard Specification.
- All Utility Companies shall be notified 24 hrs in advance of construction.
- Streets are designed for traffic speed of 30mph in accordance with ASSHO Standards.
- All inlets shall be Howard County Standards unless otherwise shown.
- All street curb returns shall have a 35' radii unless otherwise noted.
- Storm Drain trenches within road rights of way shall be back filled and compacted in accordance with Howard County Road Code.
- Approximate location of existing utilities are shown the Contractor shall take all necessary precautions to protect the existing utilities and to maintain uninterrupted service. Any damage incurred due to the 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 construction operations.
- All Reinforced Concrete for Storm Drain Structures shall have minimum 28 days strength of 3500' psi.
- Traffic Control Devices and their installation shall be in accordance with the Manual on Uniform Traffic Control Devices, 1971 Revised Edition.
- Poly Filter-X (Filter Cloth Blanket) or equal shall be placed under all stone rip-rap.
- Rip-rap at Outfalls shall be unpaved unless otherwise noted.
- All horizontal and vertical controls are based on Maryland State Datum.
- Seed and mulch all disturbed areas.
- Traffic control devices, and their installation shall be in accordance with the Manual on Uniform Traffic Control Devices, 1971 Revised Edition.
- All fill areas shall be compacted to 95% maximum density.

WHITMAN, REQUARDT & ASSOCIATES
ENGINEER
BALTIMORE, MARYLAND
Kenneth A. Mc Cord
KENNETH A. Mc CORD
Registered Engineer
No. 1974

DEPARTMENT OF PUBLIC WORKS
W. O. Albert 3-30-78
CHIEF, BUREAU OF ENGINEERING DATE
OFFICE OF PLANNING AND ZONING
John W. Murchman 3-28-78
CHIEF, DIVISION OF LAND DEVELOPMENT DATE

CHATEAU VALLEY
SECTION 1 AREA 4
ROAD CONSTRUCTION PLANS
DEVELOPER
BICENTENNIAL JOINT VENTURE
2ND ELECTION DISTRICT OF HOWARD COUNTY, MD.
2654 BALTIMORE NATIONAL PIKE
ELLCOTT CITY, MARYLAND
DATE: 3-1-78
Scale: As Shown

NOTE:
 Standard Manhole - Howard County Standard Drwg. D-103, Page 158
 Standard A-5 & A-10 Inlet Howard County Standard Drwg. G-4-A, Page 119-A
 Standard Type "E" Endwall, Howard County Standard Drwg. D-55, Page 110,
 For Inlet Gutter Slope see Detail, Sheet 4 of 8.

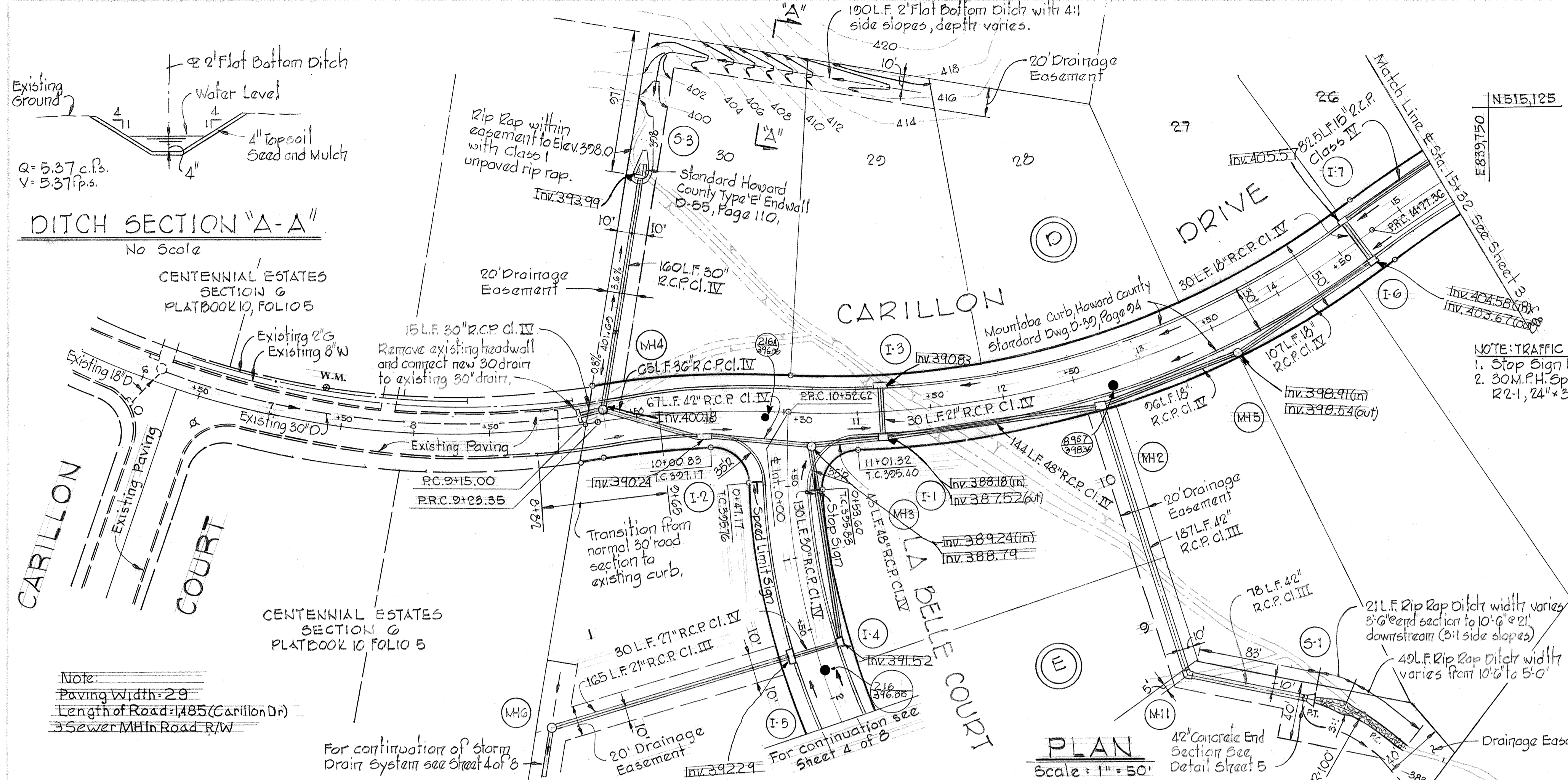
STORM DRAIN STRUCTURE SCHEDULE

NO.	TYPE	TOP ELEV.	INV. BOT.	LOCATION
I-1	Standard A-5 Inlet width 5.0'	395.45	397.61	at Inlet 17.42' Right of Sta. 11+16.46
I-2	Standard A-10 Inlet width 5.0'	397.40	399.10	at Inlet 16.02' Right of Sta. 9+28.33
S-3	Standard Type "E" Endwall	---	374.33	See Plan and Profile
I-3	Standard A-10 Inlet width 2.5'	395.45	397.85	at Inlet 16.17' Left of Sta. 11+16.46
I-4	Standard A-5 Inlet width 3.0'	397.00	397.27	at Inlet 16.42' Left of Sta. 11+23.17
I-5	Standard A-10 Inlet width 2.5'	397.00	397.20	at Inlet 16.17' Right of Sta. 11+23.17
S-2	Standard Type "E" Endwall	---	404.88	See Plan and Profile
I-6	Standard A-5 Inlet width 2.5'	409.87	405.80	at Inlet 16.17' Right of Sta. 14+25
I-7	Standard A-5 Inlet width 2.5'	409.87	405.67	at Inlet 16.17' Left of Sta. 14+25
MH 1	Special MH See Detail Sheet G	386.89	380.26	See Plan and Profile
MH 2	Special MH See Detail Sheet G	388.47	385.12	at MH 21.50' Right of Sta. 12+60.46
MH 3	Special MH See Detail Sheet G	395.14	388.17	at MH 22.00' Right of Sta. 10+20
MH 4	Special MH See Detail Sheet G	399.89	392.68	at MH 8.00' Left of Sta. 9+29
MH 5	Standard MH	409.74	398.75	at MH 23.00' Right of Sta. 13+59.21
MH 6	Standard MH	419.00	401.96	See Plan and Profile
S-1	42" Concrete End Section	---	378.36	See Plan and Profile
I-8	Standard A-10 Inlet width 2.5'	412.15	408.05	at Inlet 16.17' Left of Sta. 15+52

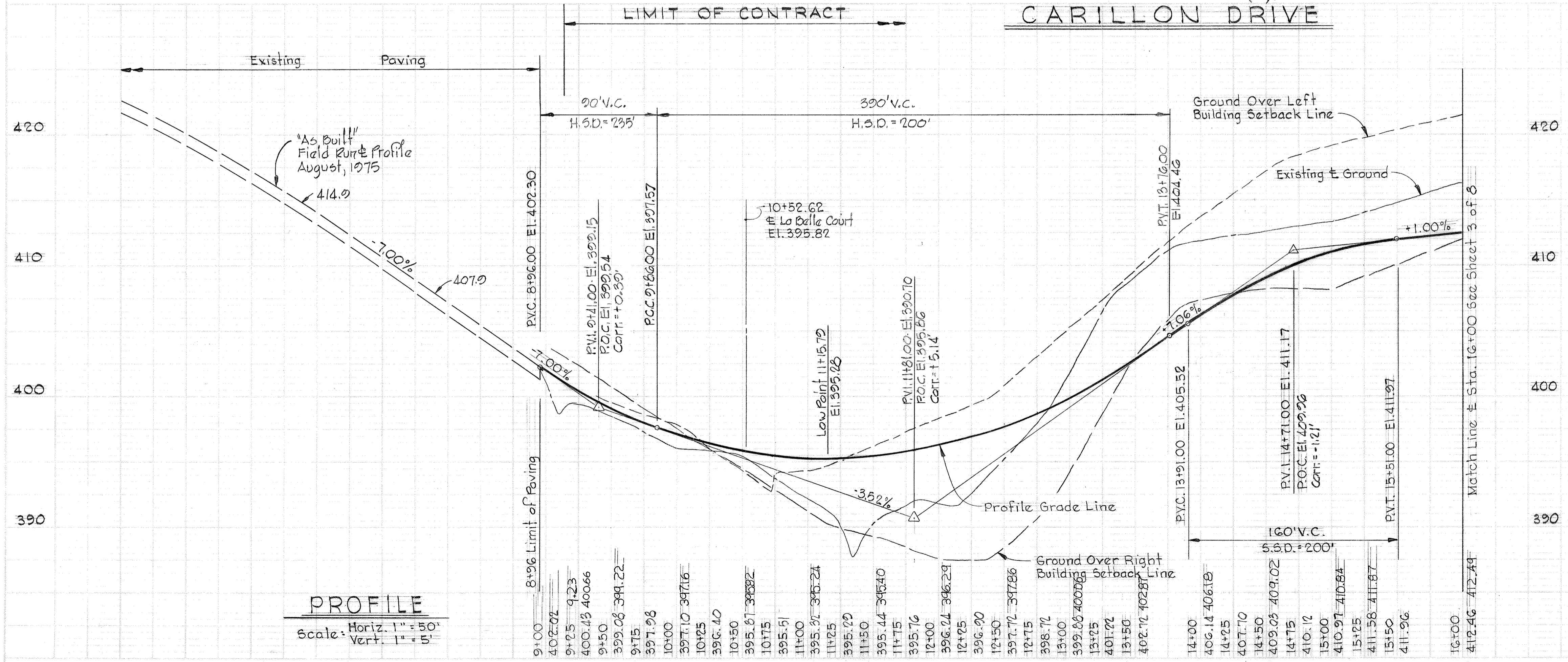
* Note: inlets I-2 & I-6 with Deflectors, see Detail this sheet.

CURVE DATA

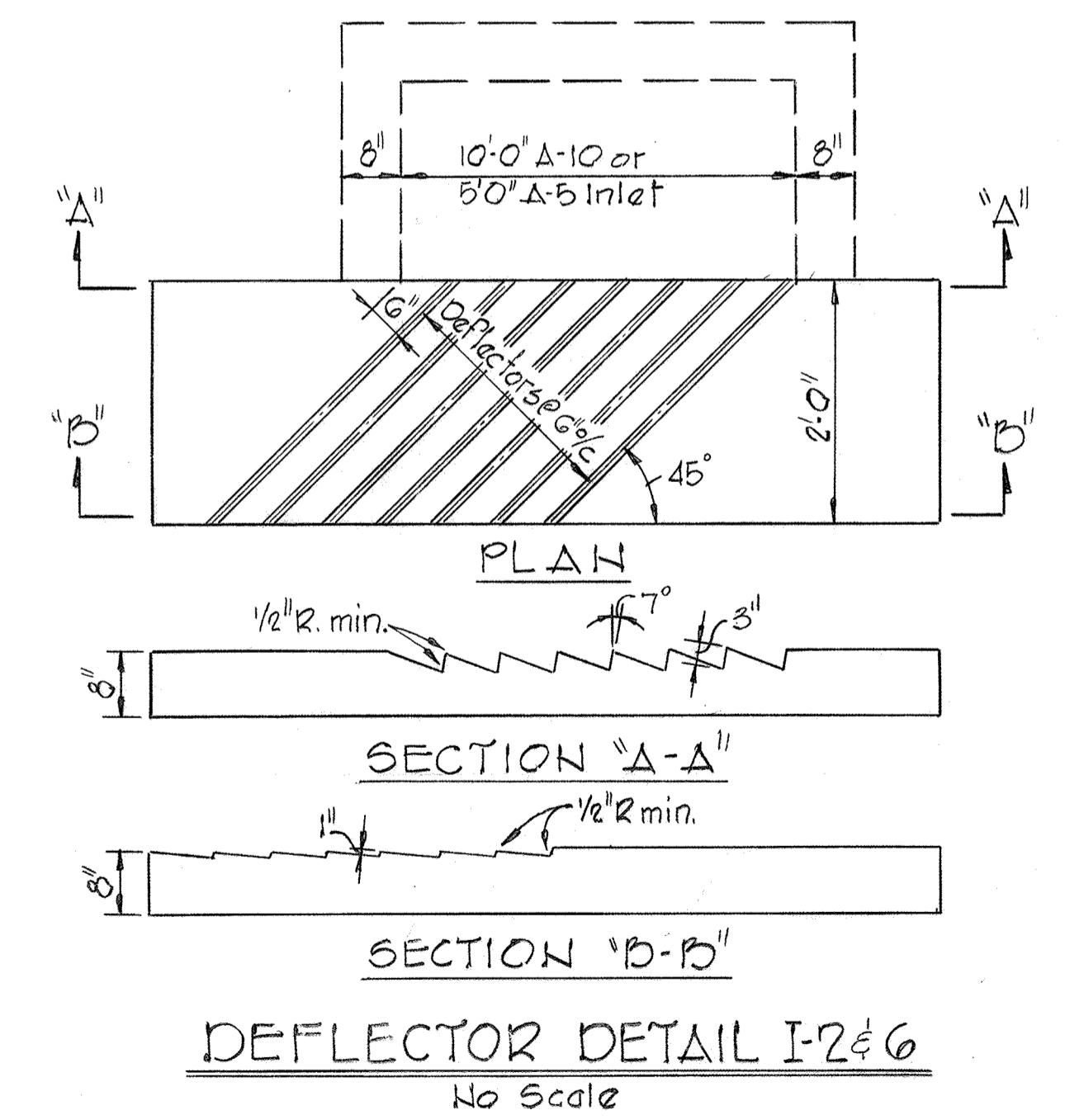
Stationing	Delta	Radius	Angle	Ch.	Brg.
PC 9+15.00 TO PRC 9+23.35	00° 47' 49"	600.00'	8.35'	8.35'	N 81° 28' 11" E
PRC 9+23.35 TO PRC 10+52.62	12° 20' 39"	600.00'	129.27'	64.89'	N 87° 14' 36" E
PC 10+52.62 TO PRC 14+77.36	40° 33' 54"	600.00'	424.74'	221.71'	N 73° 08' 09" E



PLAN
 Scale: 1" = 50'



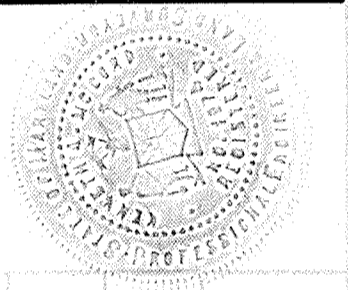
PROFILE
 Scale: Horiz. 1" = 50'
 Vert. 1" = 5'



DEFLECTOR DETAIL I-2 & I-6
 No Scale

DEVELOPER
 BICENTENNIAL JOINT VENTURE
 8654 BALTIMORE NATIONAL PIKE
 ELLICOTT CITY, MARYLAND

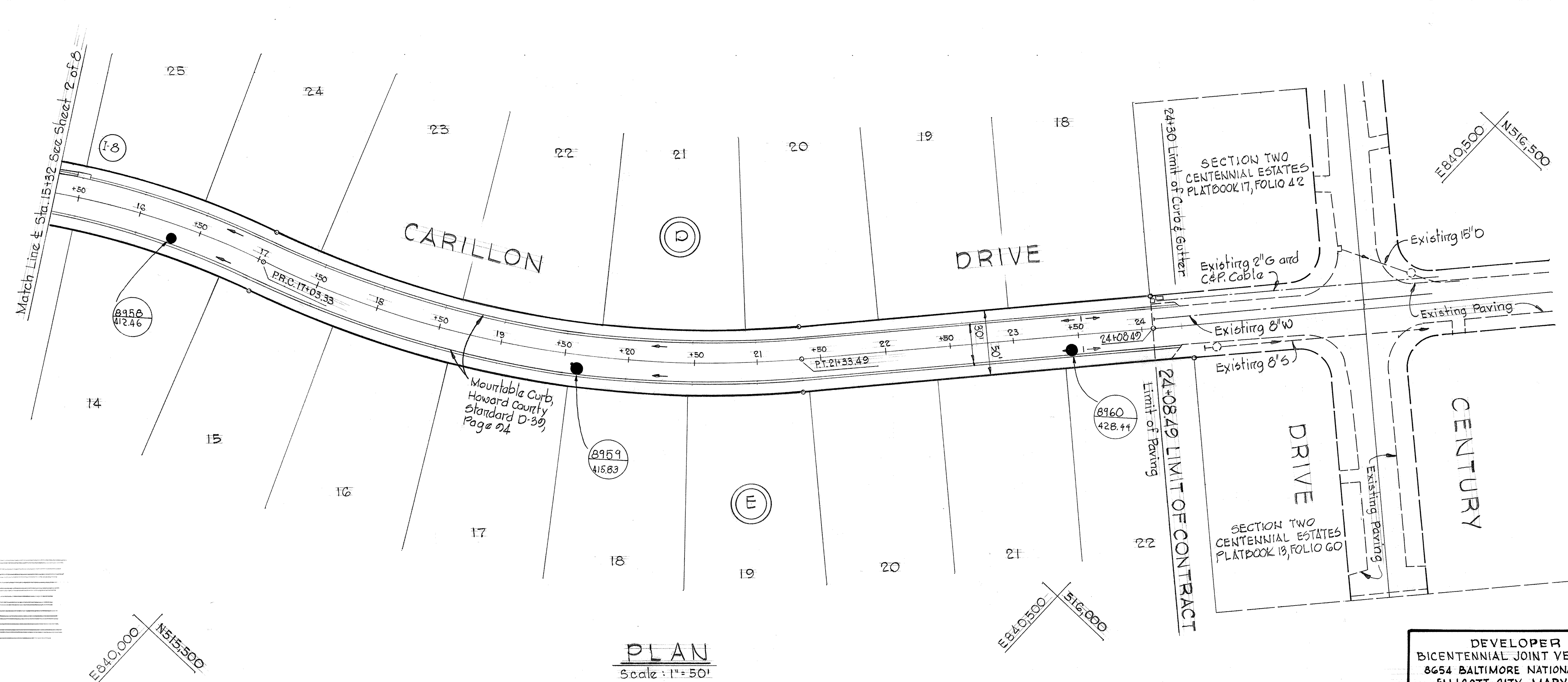
Kenneth A. McCord
 KENNETH A. McCORD
 Registered Engineer
 No. 1974



AS BUILT 2/1/81 J.C.
 F-77-101

CURVE DATA

PRC. 14+71.36 TO PRC. 17+03.33	PRC. 17+03.33 TO P.T. 21+33.49
$\Delta = 19^{\circ}55'07''$	$\Delta = 30^{\circ}48'30''$
R = 650.00'	R = 800.00'
A = 225.97'	A = 430.17'
T = 114.14'	T = 220.42'
Ch = 224.83'	Ch = 425.00'
Brg = N 62°46'56"E	Brg = N 57°22'14"E



Note:
 Paving Width: 29'
 Length of Road: 1,485 LF
 3 Sewer MH in Road R/W

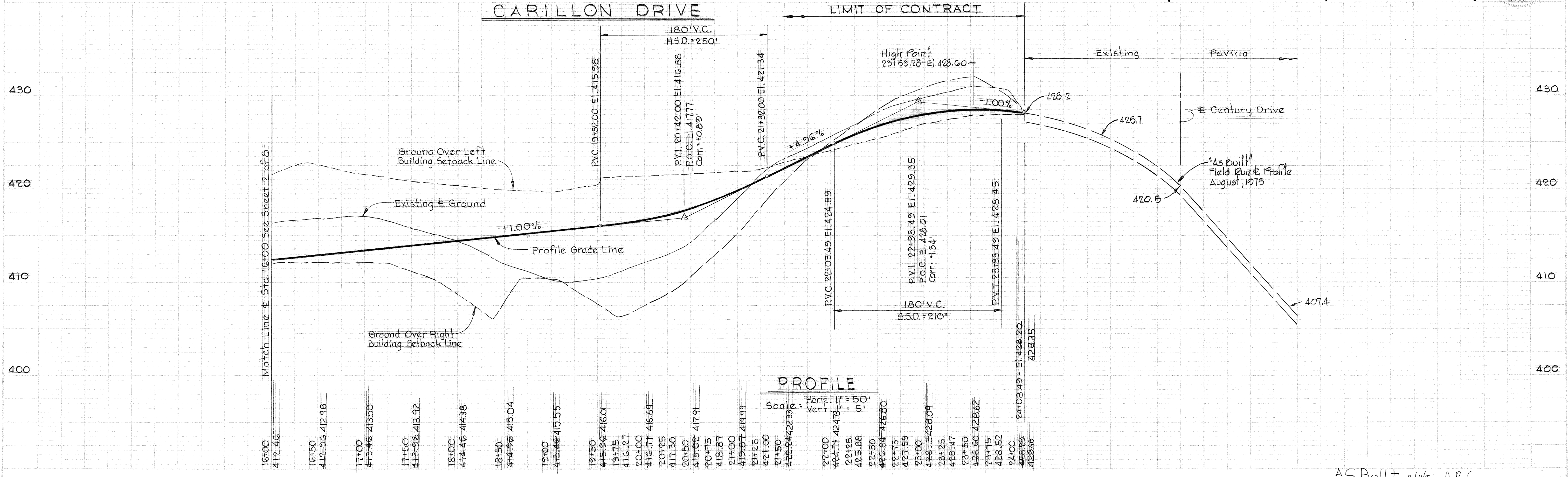
PROJECT TITLE
CHATEAU VALLEY
 SECTION 1 AREA 4
 2ND ELECTION DISTRICT, HOWARD COUNTY, MARYLAND
 PLAN AND PROFILE - CARILLON DRIVE

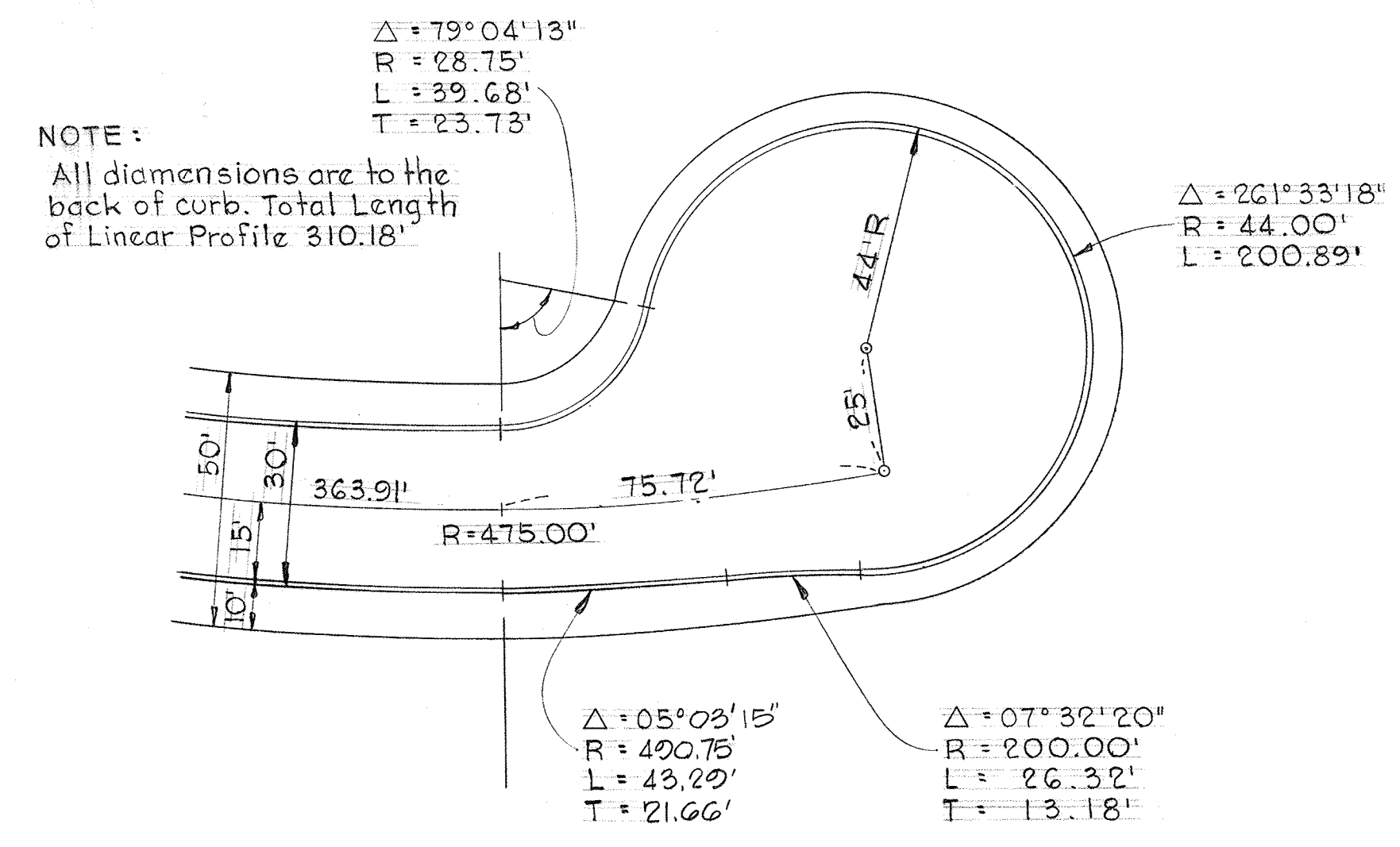
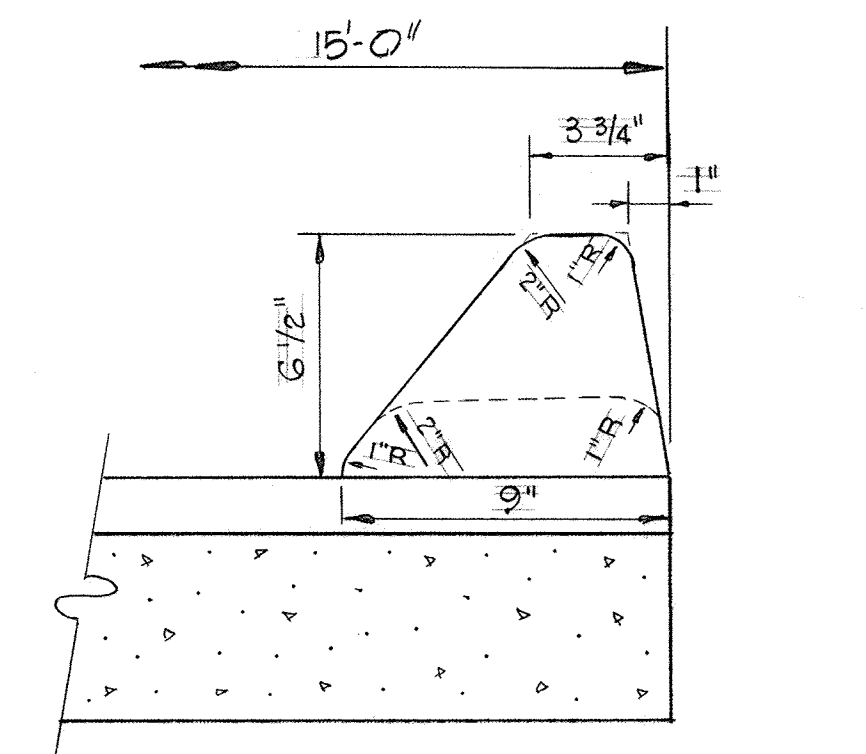
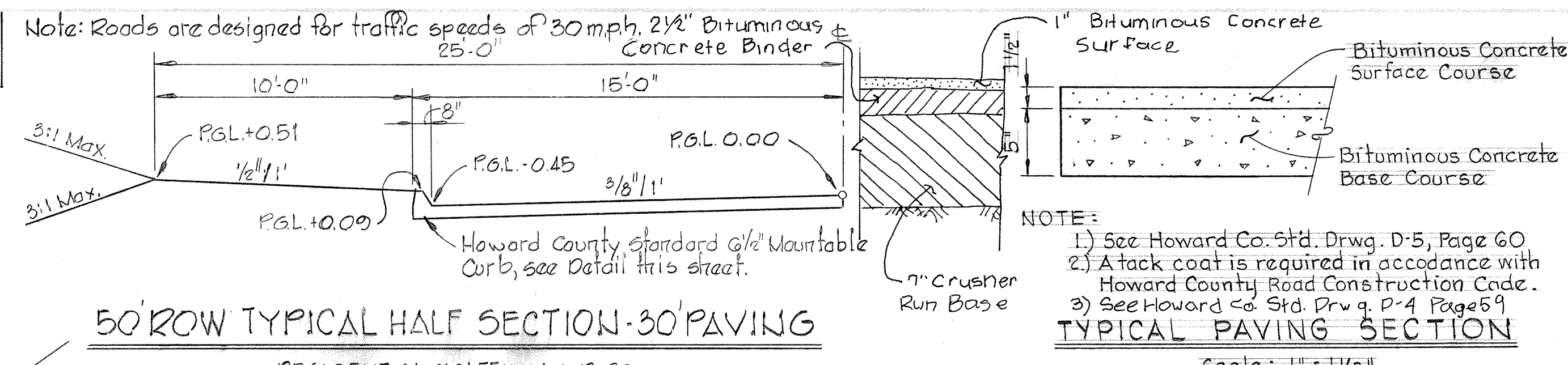
SCALE: AS SHOWN DATE: 3-1-78

WHITMAN, REQUARDT & ASSOCIATES
 ENGINEERS
 BALTIMORE, MARYLAND 21202

DEVELOPER
 BICENTENNIAL JOINT VENTURE
 8654 BALTIMORE NATIONAL PIKE
 ELLICOTT CITY, MARYLAND

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





50' R.O.W. HALF SECTION APPLIES TO:
 Carillon Drive - Sta. 8+20 to Sta. 24+08.49
 La Belle Court - Sta. 0+00 to Sta. 3+63.19

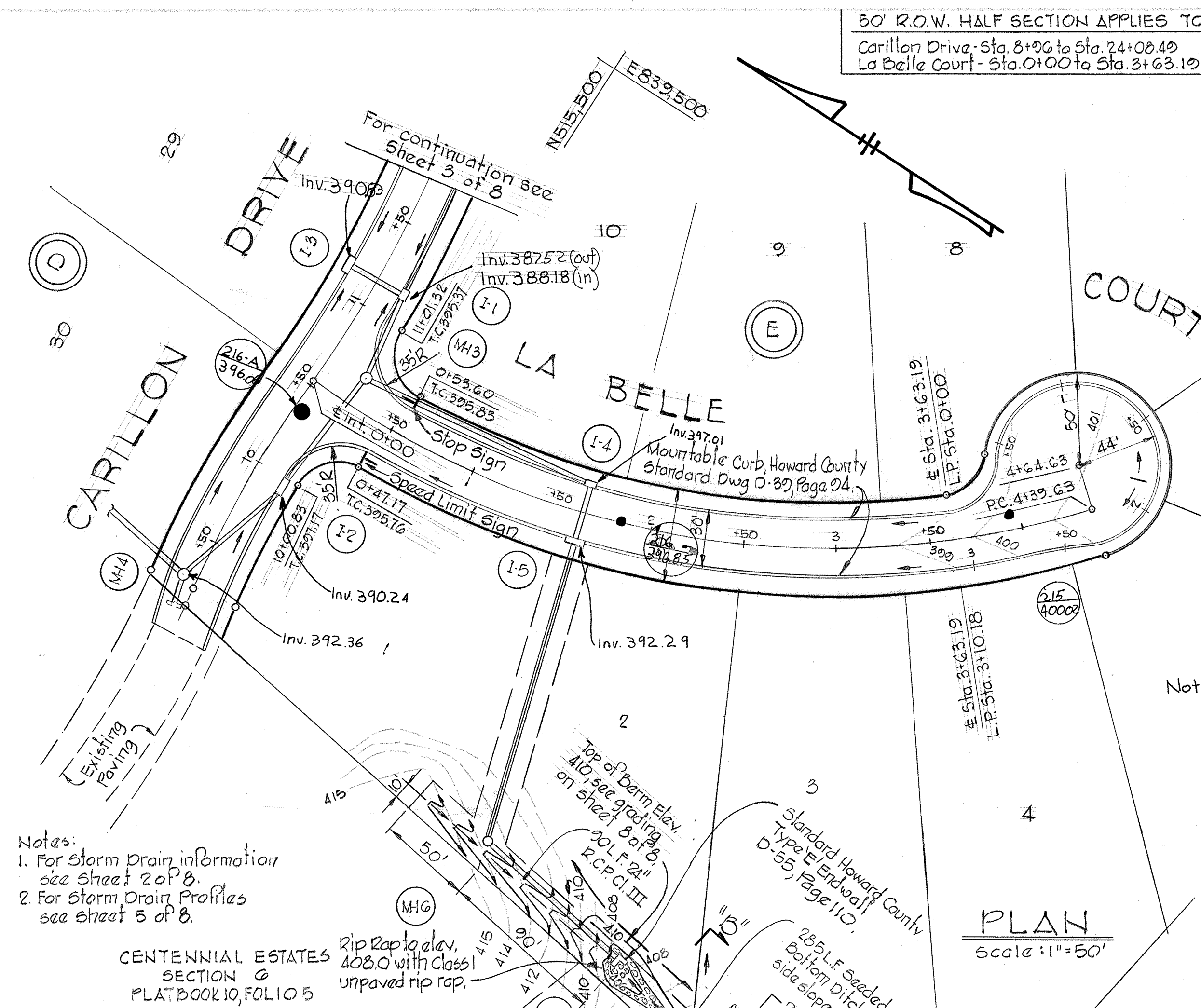
Note: Roads are designed for traffic speeds of 30 mph. 2 1/2" Bituminous Concrete Binder

NOTE:
 1) See Howard Co. Std. Drwg. D-5, Page 60
 2) A tack coat is required in accordance with Howard County Road Construction Code.
 3) See Howard Co. Std. Drwg. D-4 Page 69

Note: Paving Width = 29'
 Length of Road = 364'
 Sewer MH in Road R/W

CURVE DATA
 ± Inf. 0+00 TO RC. 4+39.63

Δ = 33° 01' 44"
R = 475.00'
A = 439.63'
T = 236.98'
Ch = 424.10'
Brg = S 23° 05' 56" E



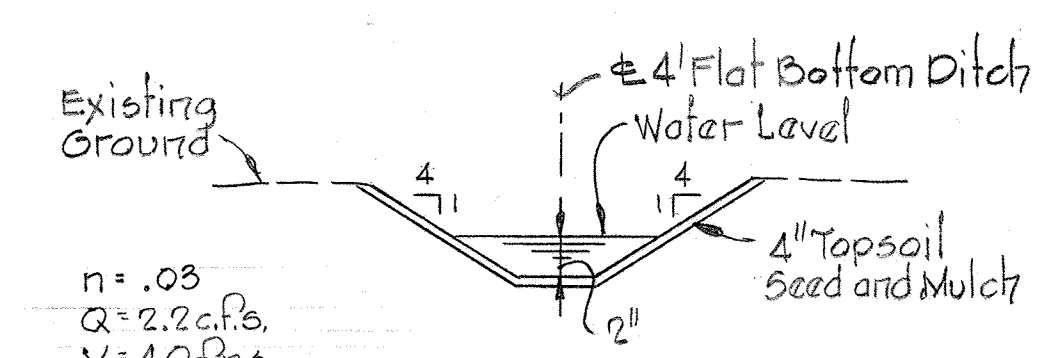
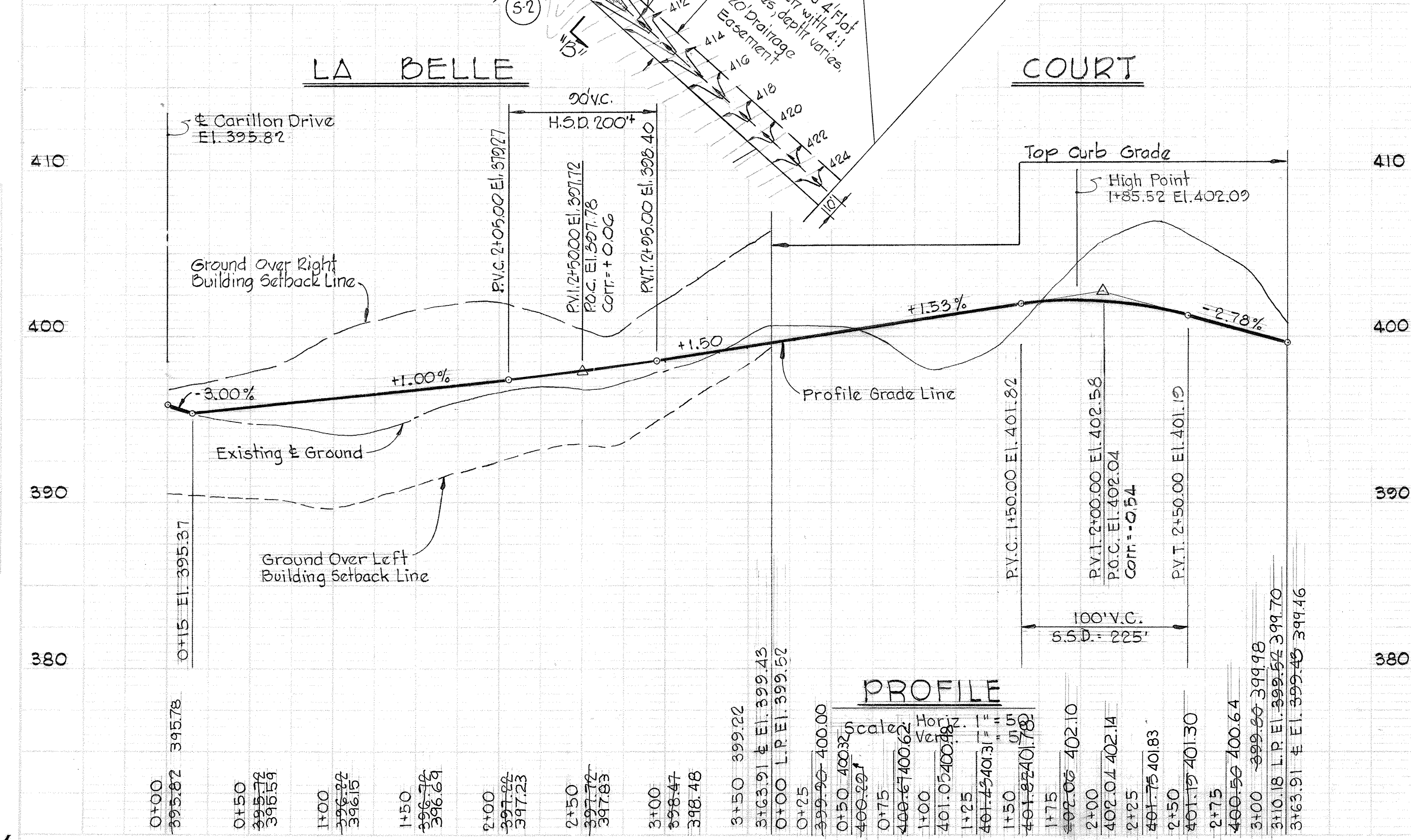
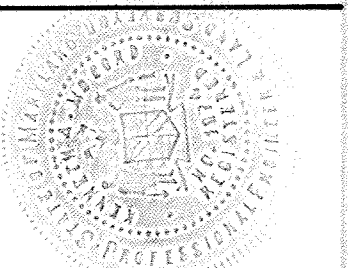
Notes:
 1. For storm drain information see sheet 2 of 8.
 2. For storm drain profiles see sheet 5 of 8.

CENTENNIAL ESTATES SECTION 6 PLAT BOOK 10, FOLIO 5
 Rip Rap to elev. 408.0 with Class 1 unpaired rip rap.

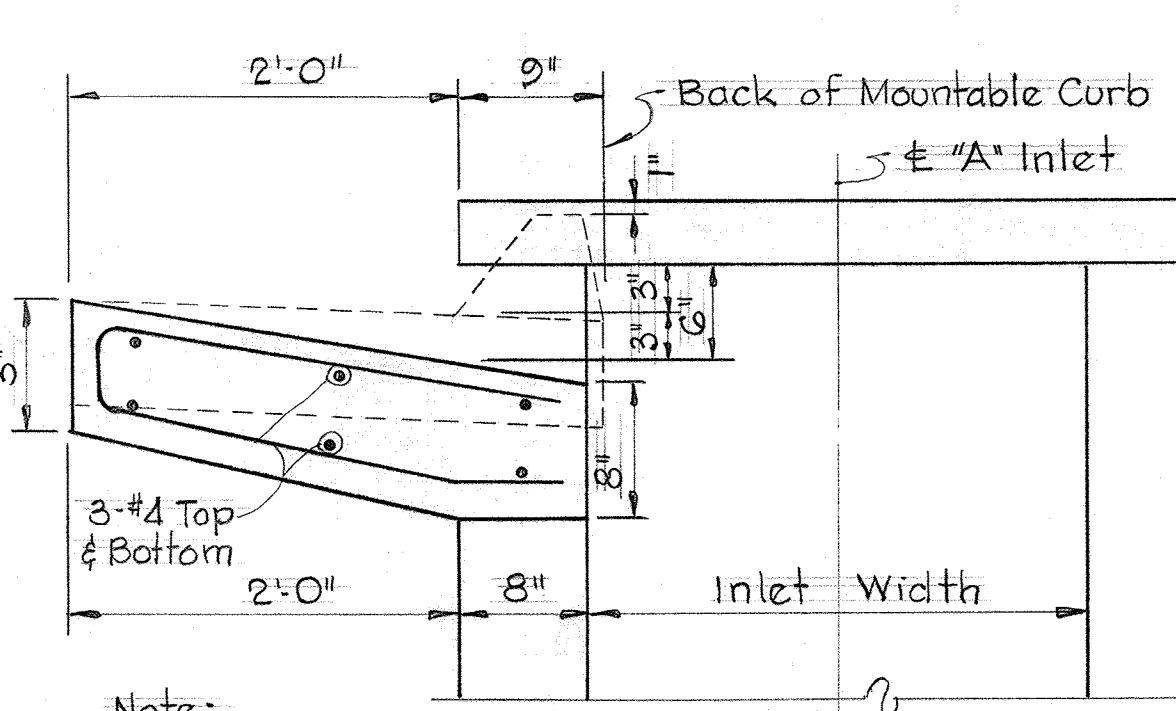
DEVELOPER
 BICENTENNIAL JOINT VENTURE
 8654 BALTIMORE NATIONAL PIKE
 ELLICOTT CITY, MARYLAND

PROJECT TITLE
CHATEAU VALLEY
 SECTION 1 AREA 4
 2ND ELECTION DISTRICT, HOWARD COUNTY, MARYLAND
 PLAN & PROFILE - LA BELLE CT. & ROADWAY DETAILS
 SCALE: AS SHOWN DATE 3-1-78
 WHITMAN, REQUARDT & ASSOCIATES
 ENGINEERS
 BALTIMORE, MARYLAND 21202

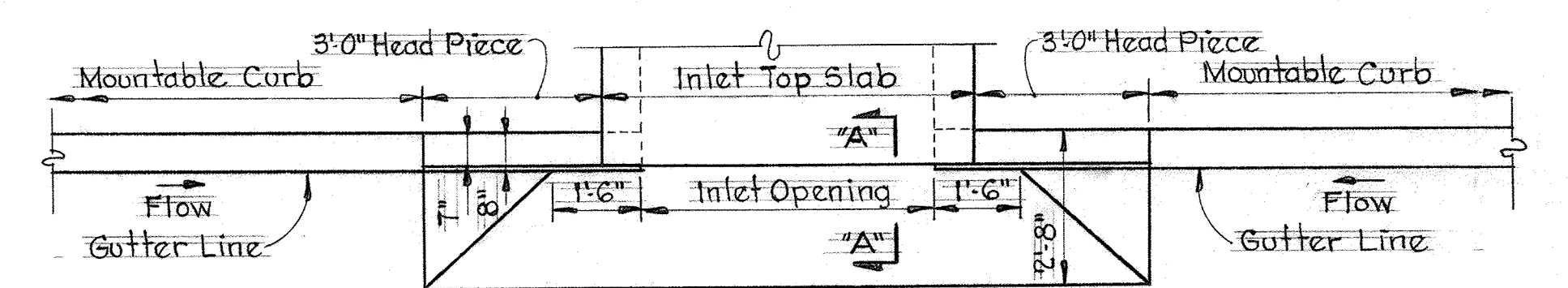
Kenneth A. McCord
 Registered Engineer
 No. 1974



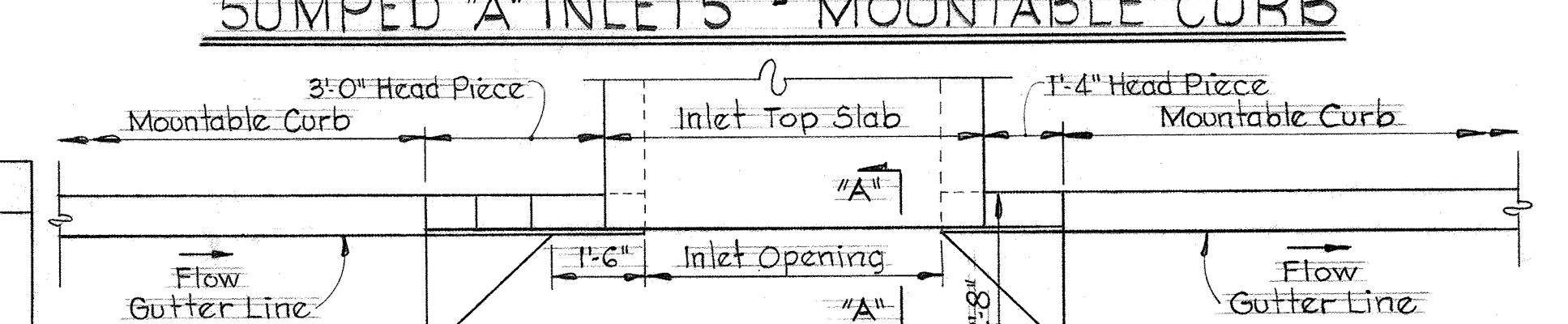
DITCH SECTION "B-B"
 No Scale



SECTION "A-A"
 "A" INLET - MOUNTABLE CURB

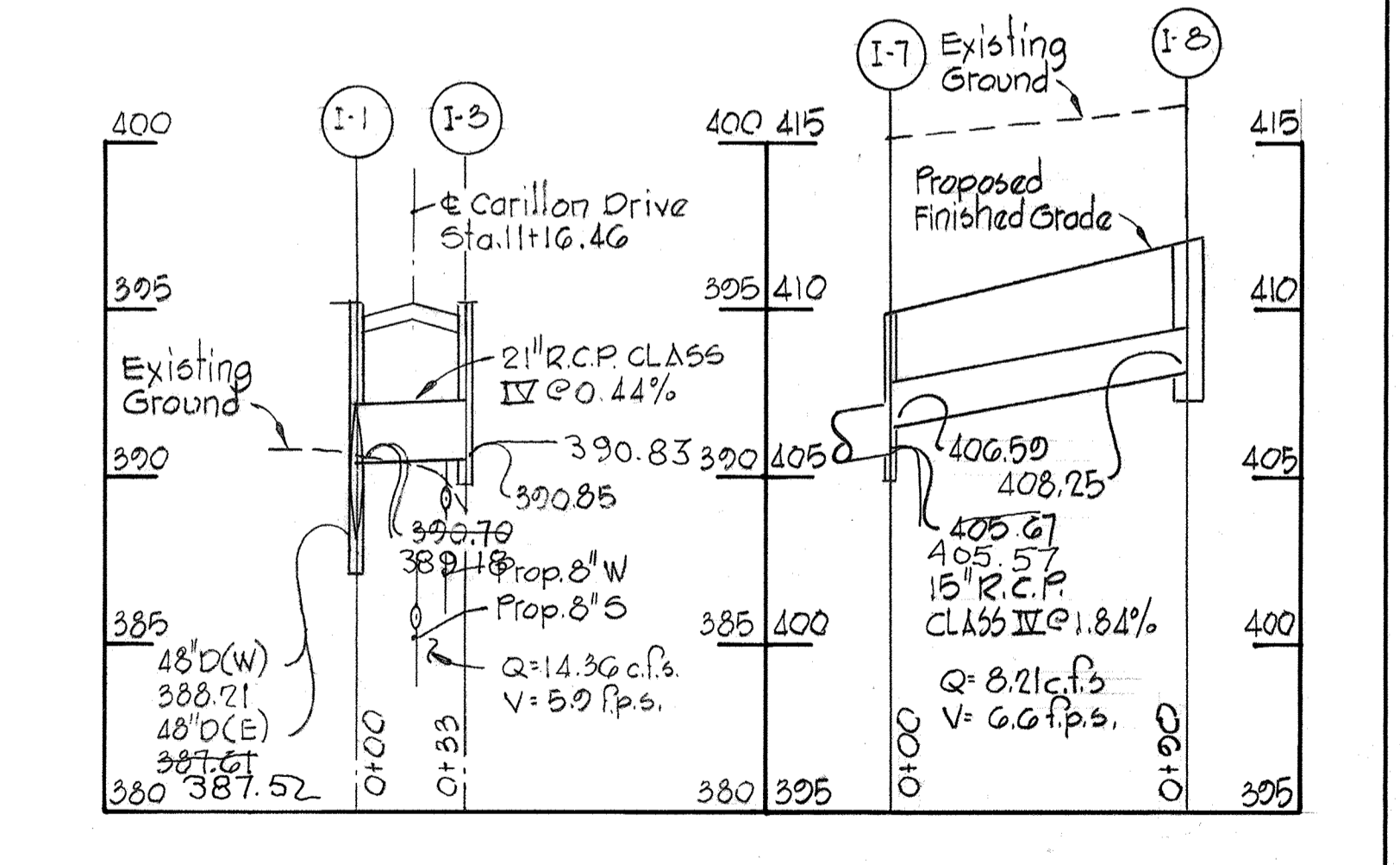
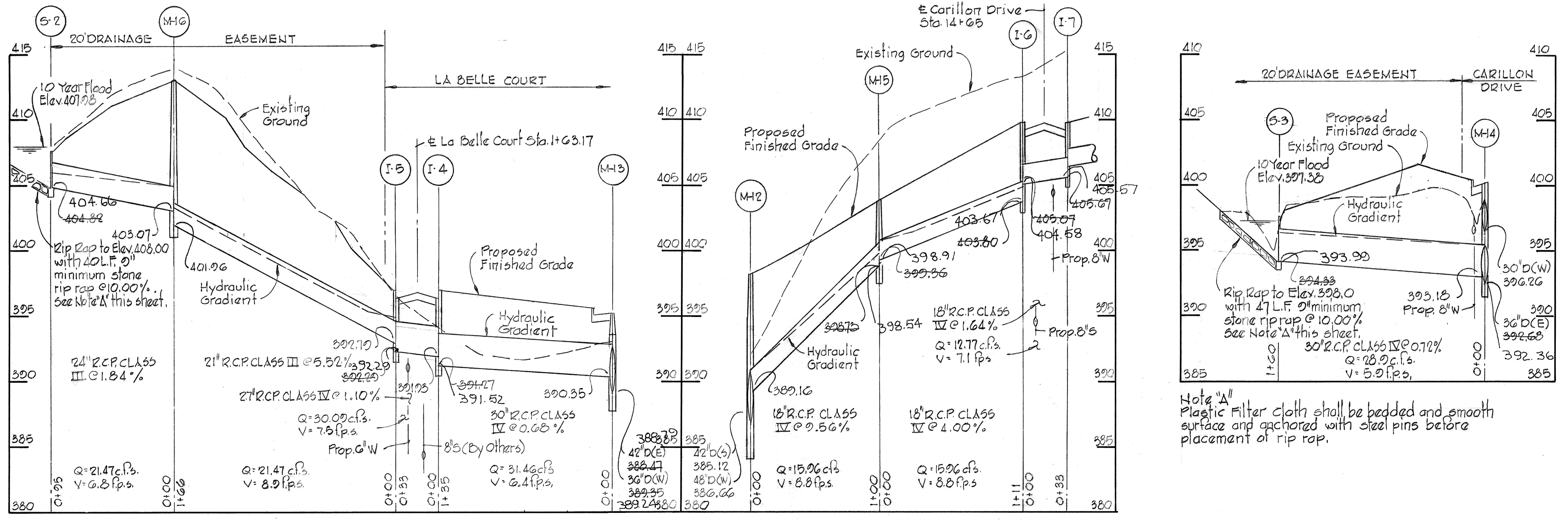
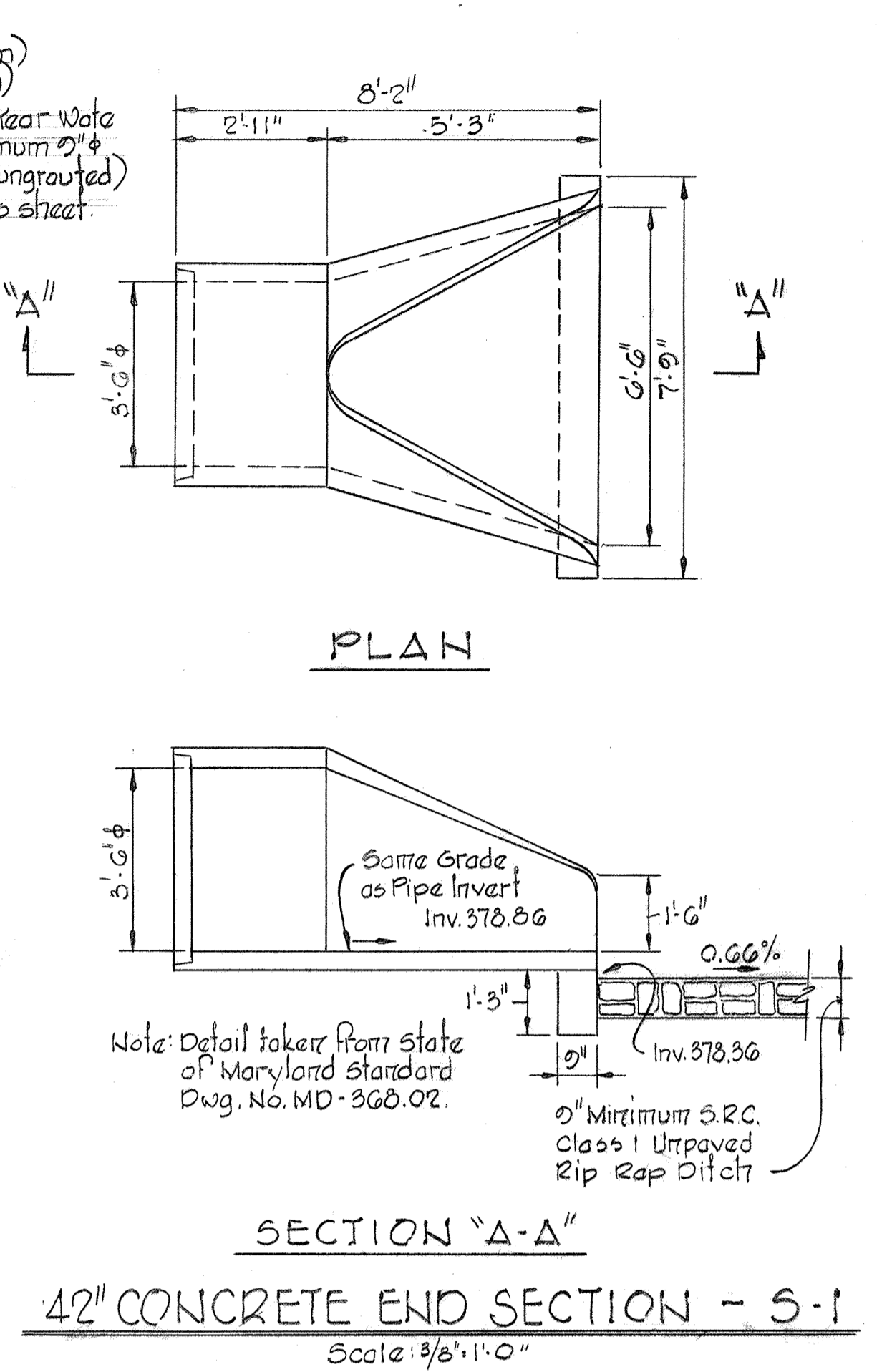
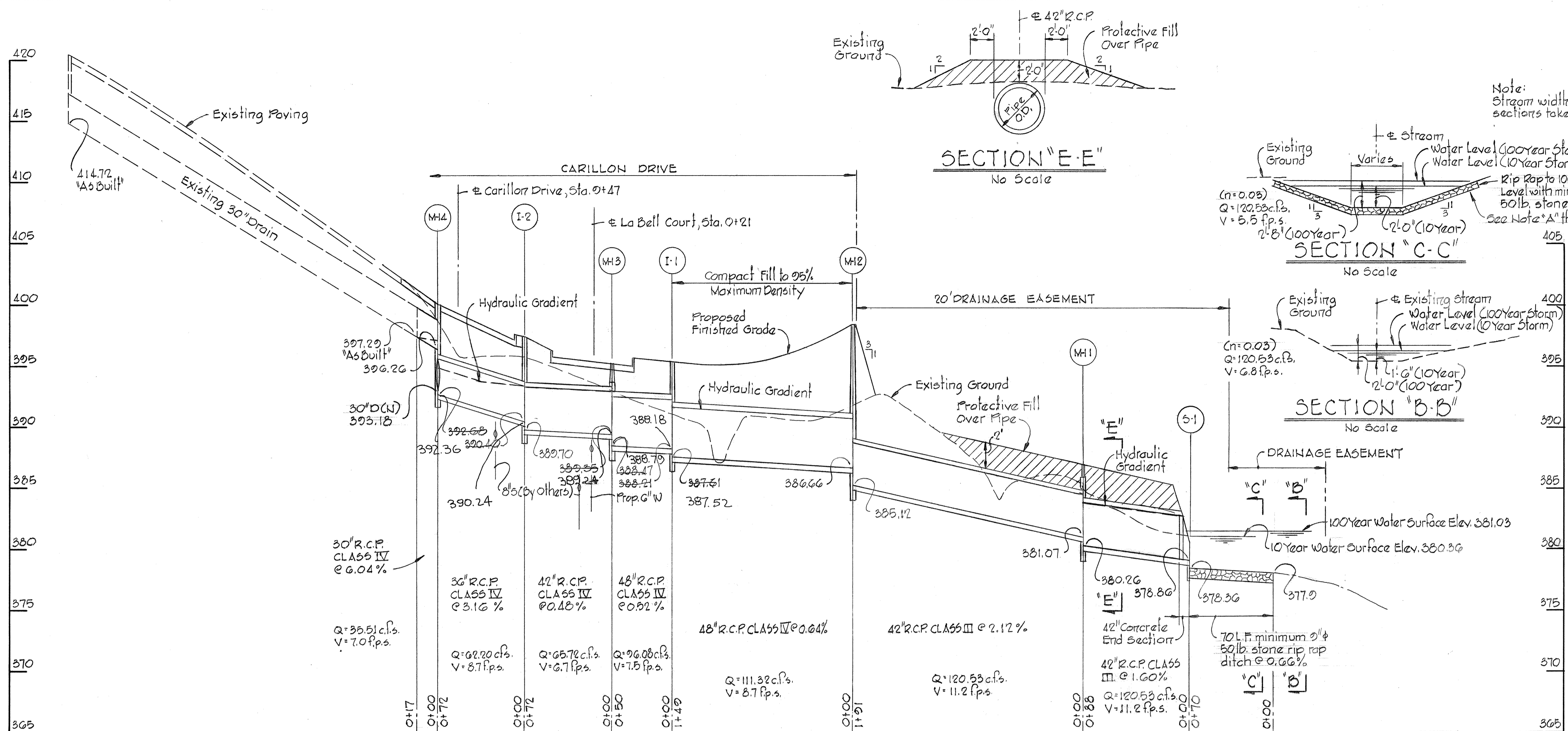


SECTION ALONG FLOW LINE
 SUMPED "A" INLETS - MOUNTABLE CURB



SECTION ALONG FLOW LINE
 "A" INLETS - MOUNTABLE CURB

Note:
 For "A" Inlet dimensions and structural details see Standard Howard County Drawing G4-A Page 119-A.



Note "A"
 Plastic Filter cloth shall be bedded and smooth surface and anchored with steel pins before placement of rip rap.

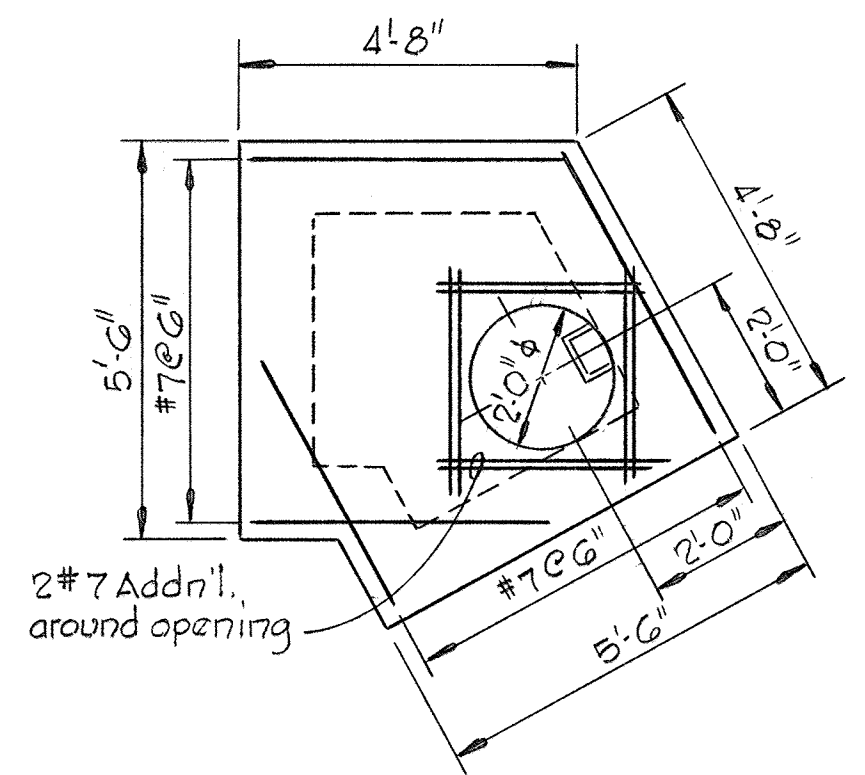
PROJECT TITLE
CHATEAU VALLEY
 SECTION 1 AREA 4
 2ND ELECTION DISTRICT, HOWARD COUNTY, MARYLAND
 STORM DRAIN PROFILES

SCALE AS SHOWN DATE 3-1-78

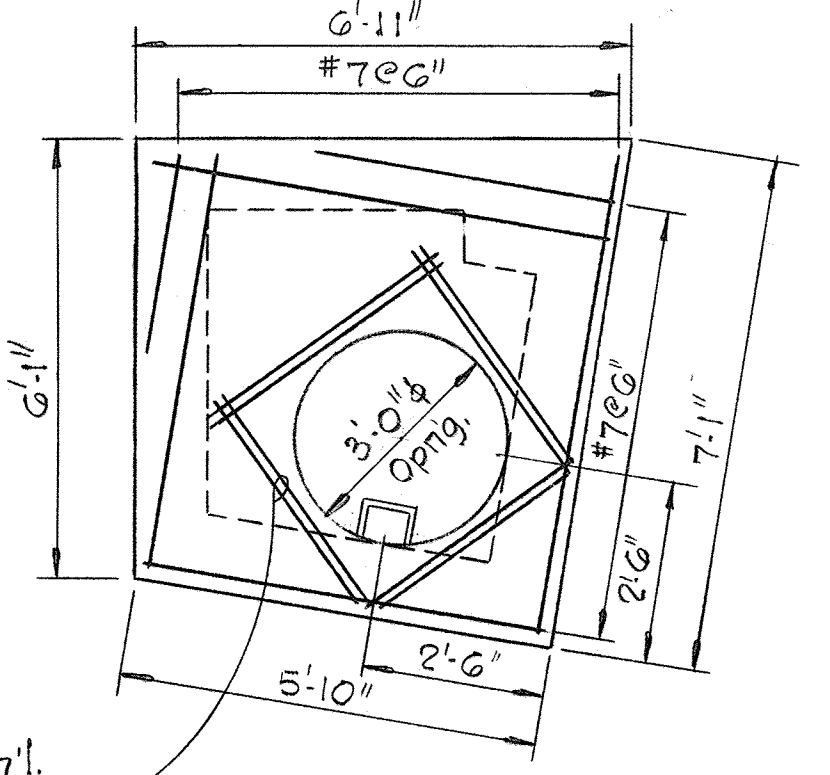
WHITMAN, REQUARDT & ASSOCIATES
 ENGINEERS
 BALTIMORE, MARYLAND 21202

DEVELOPER
 BICENTENNIAL JOINT VENTURE
 8654 BALTIMORE NATIONAL PIKE
 ELLICOTT CITY, MARYLAND

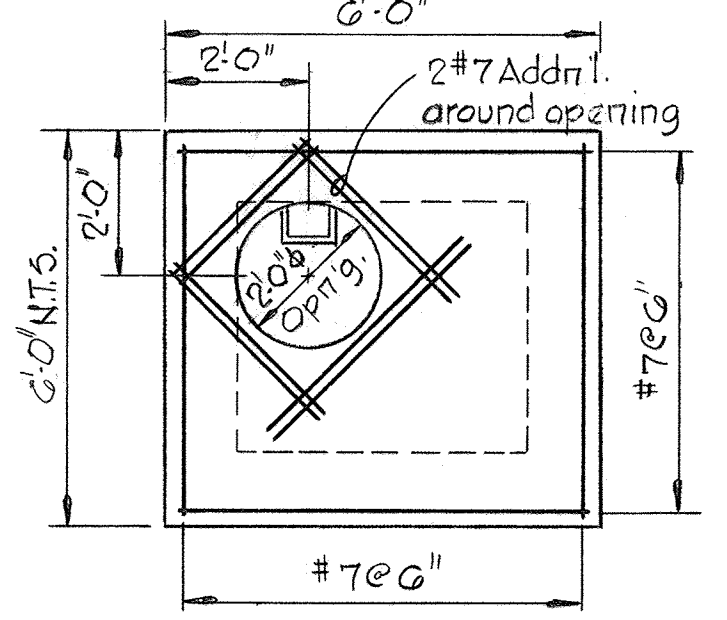
Kenneth A. McCord
 KENNETH A. McCord
 Registered Engineer
 No. 1974



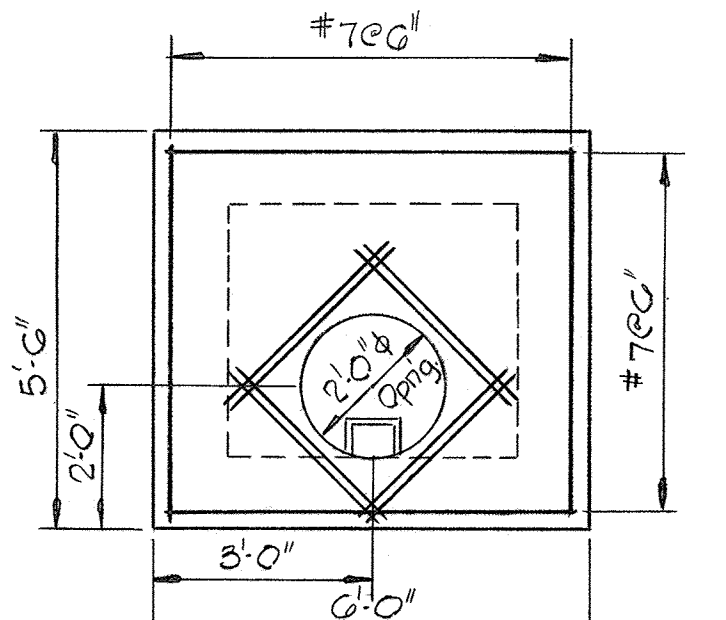
TOP SLAB PLAN



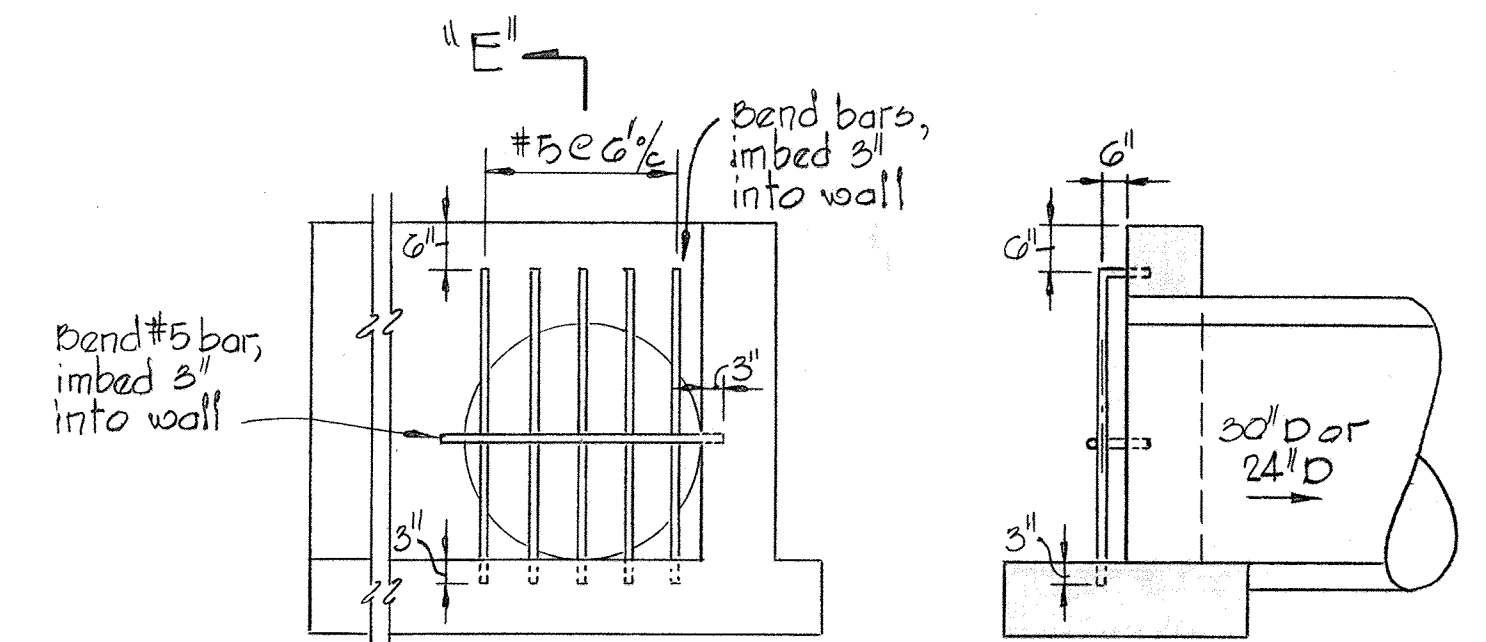
TOP SLAB PLAN



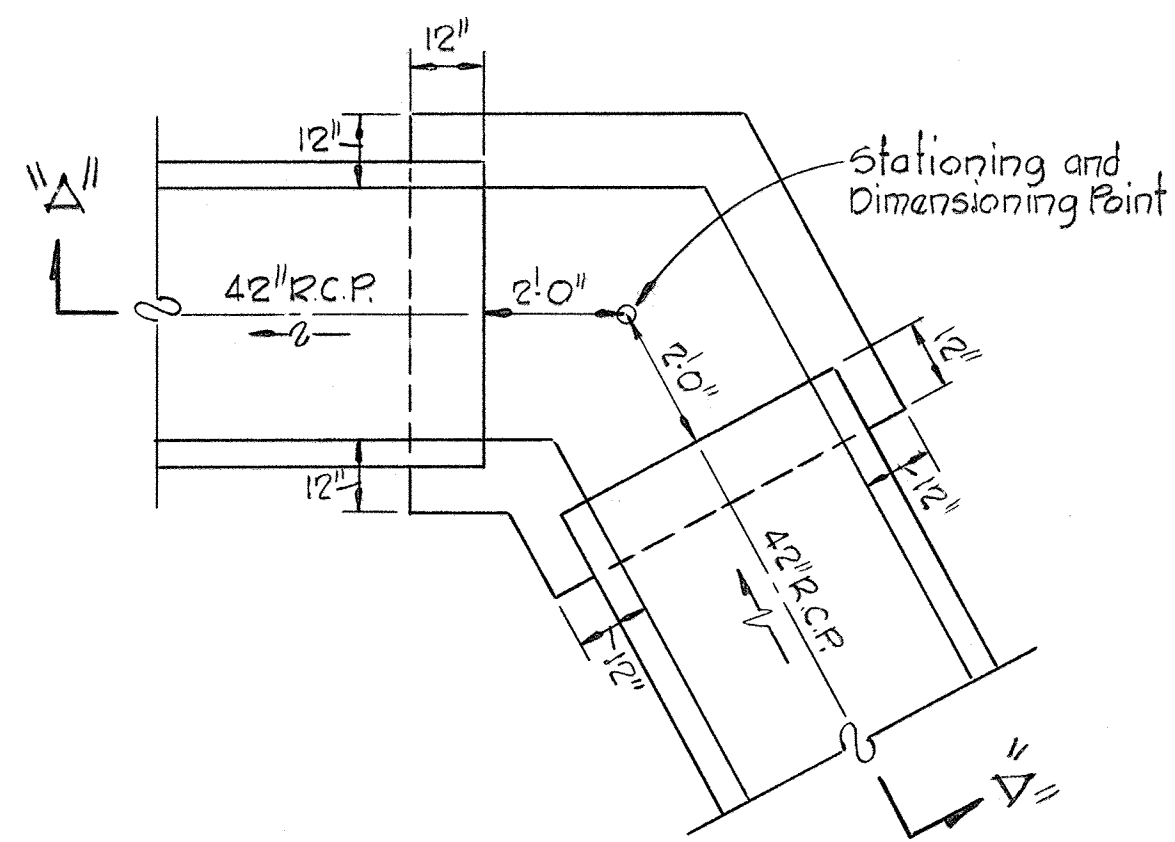
TOP SLAB PLAN



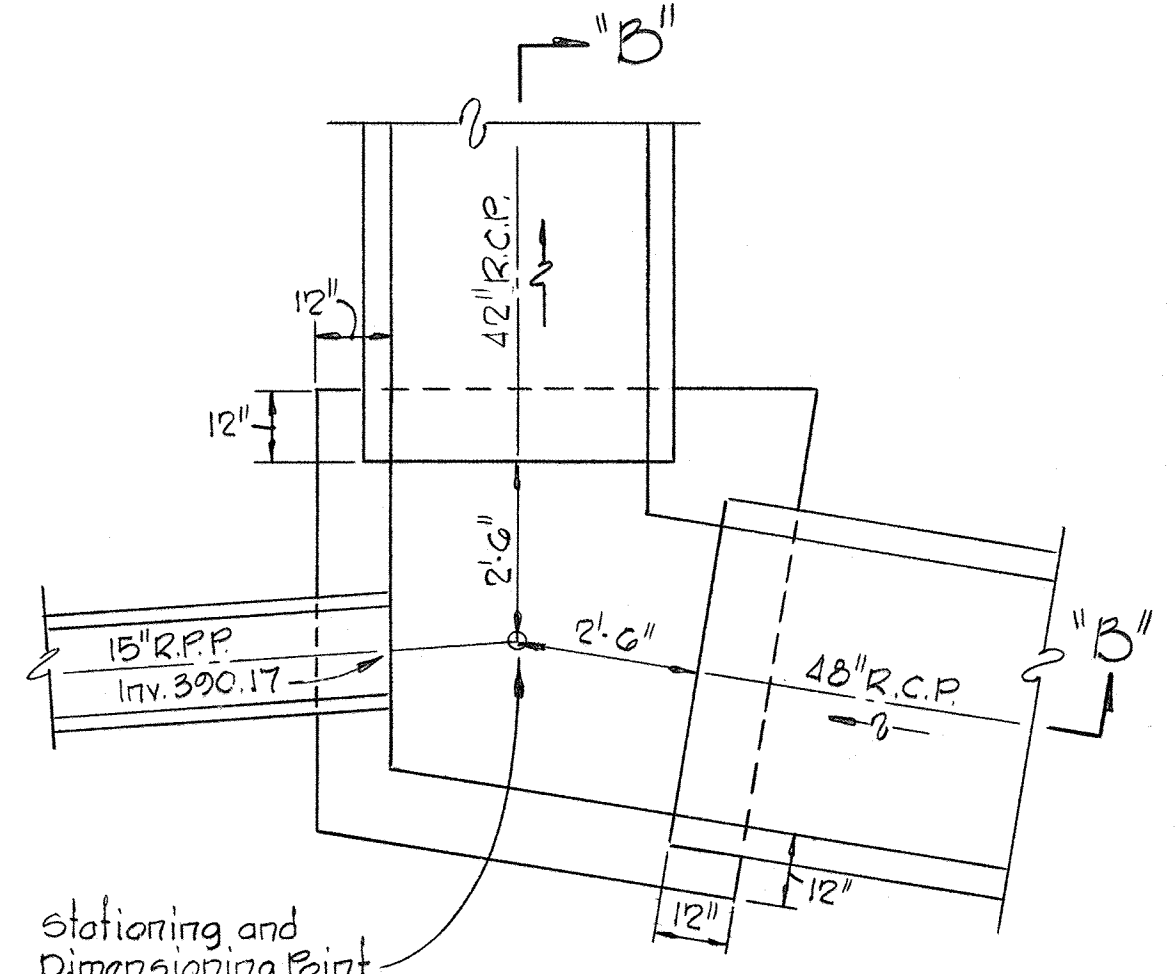
TOP SLAB PLAN



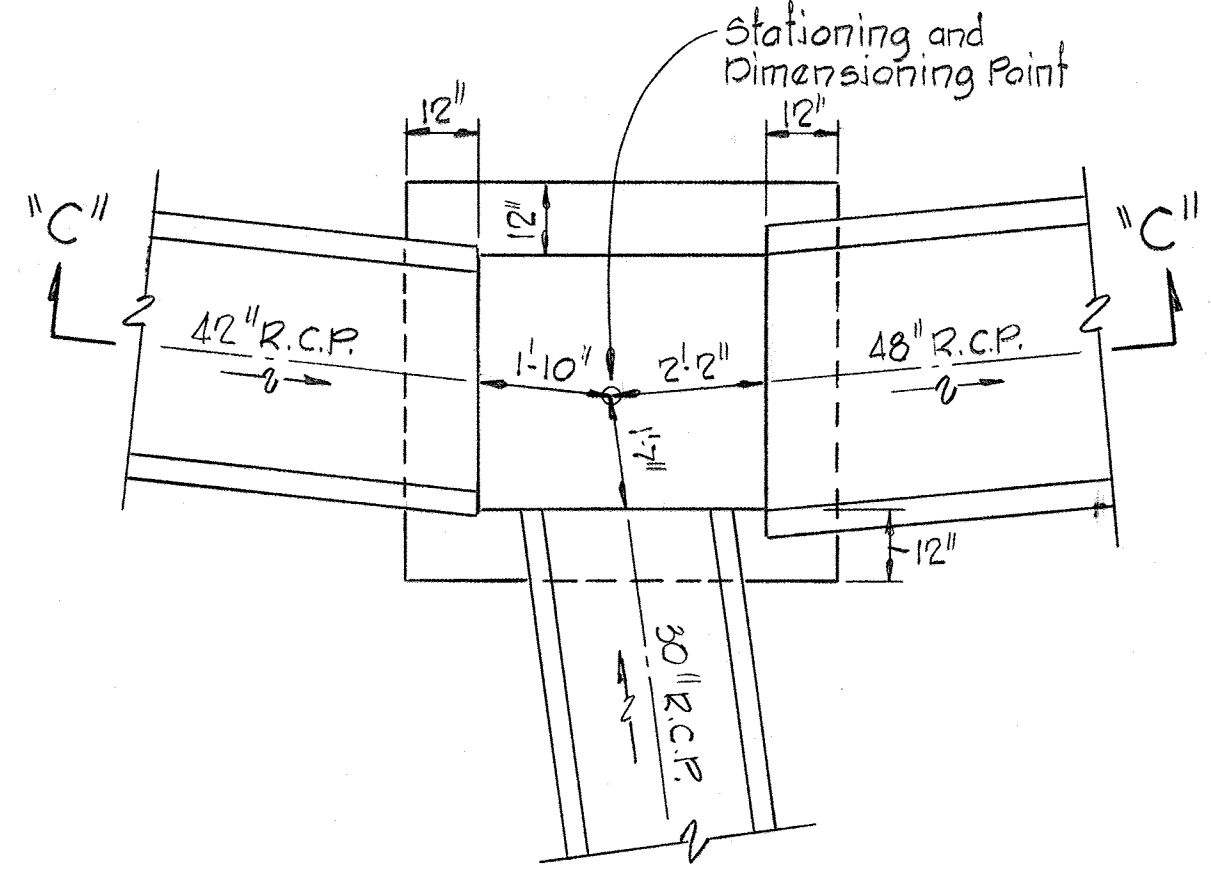
ELEVATION SECTION "E-E"
 DETAIL - BAR SCREEN AT
 ENDWALLS 5-2&53
 Scale: 1/2" = 1'-0"



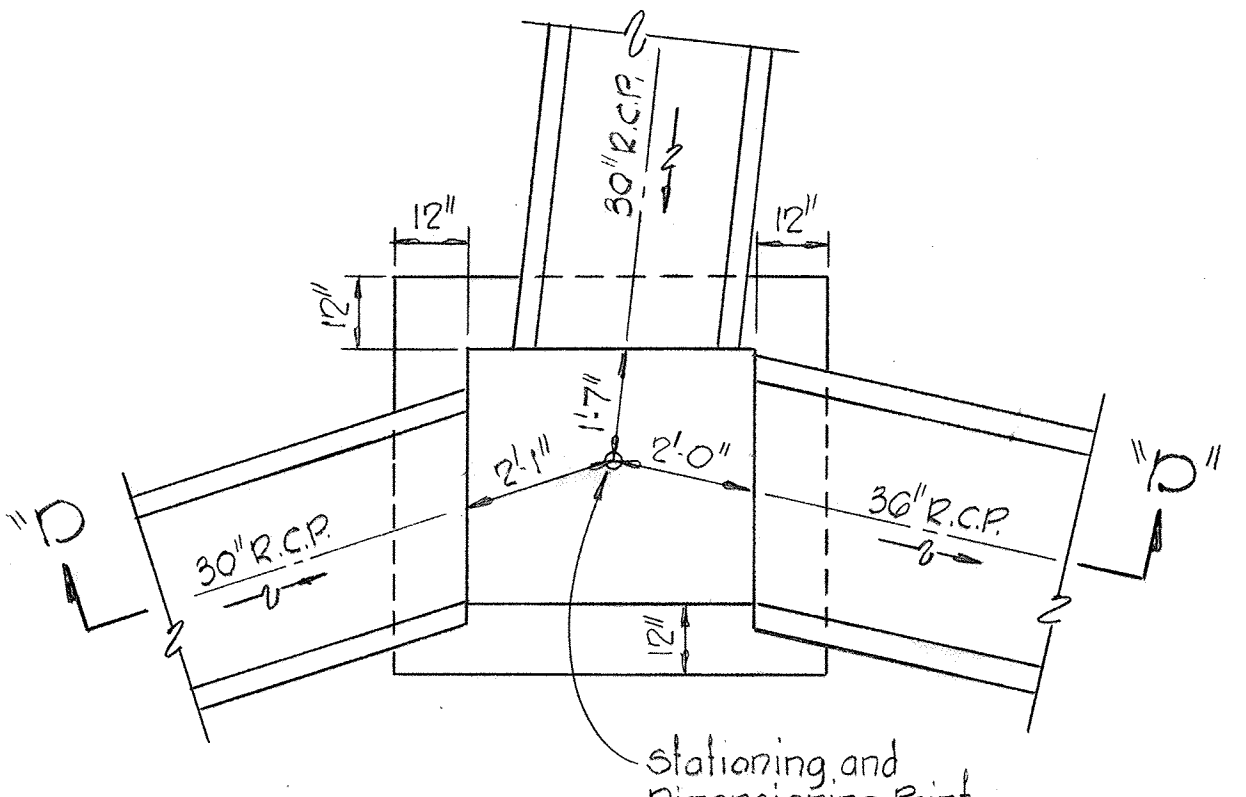
PLAN



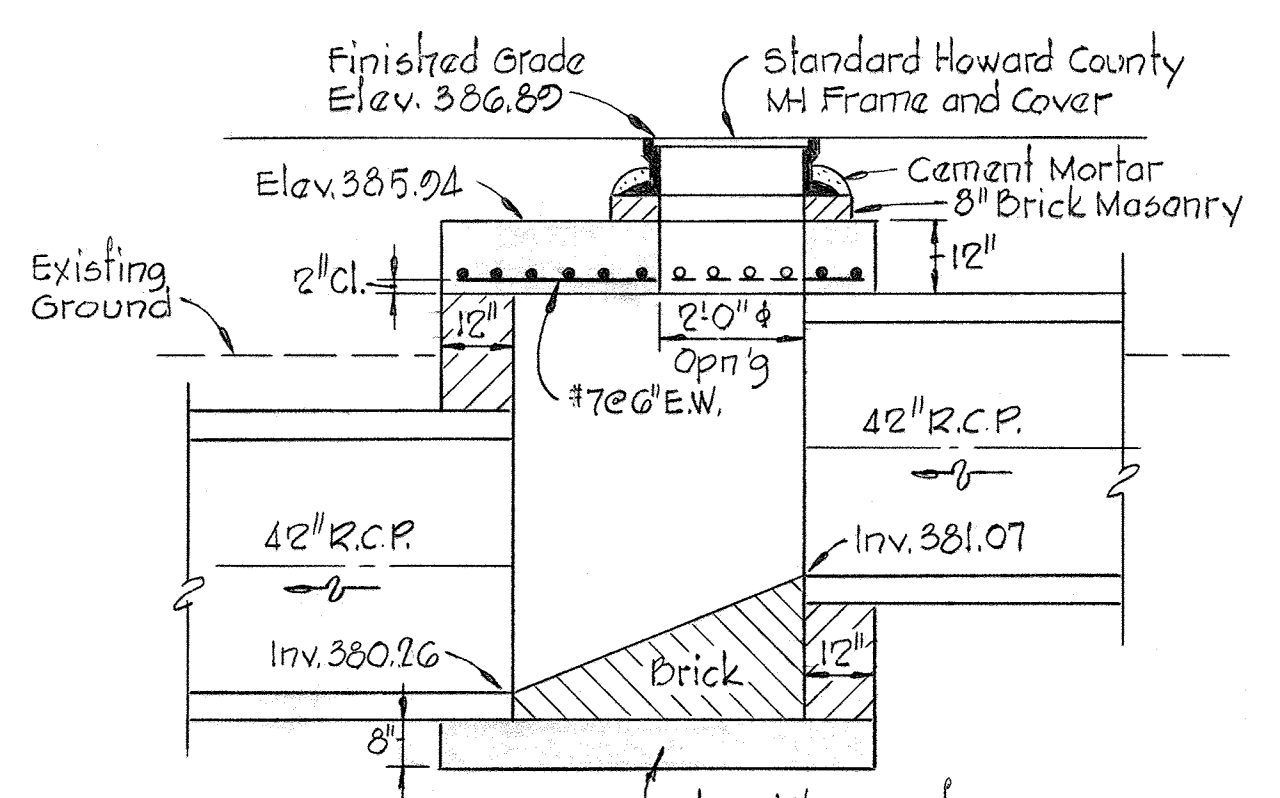
PLAN



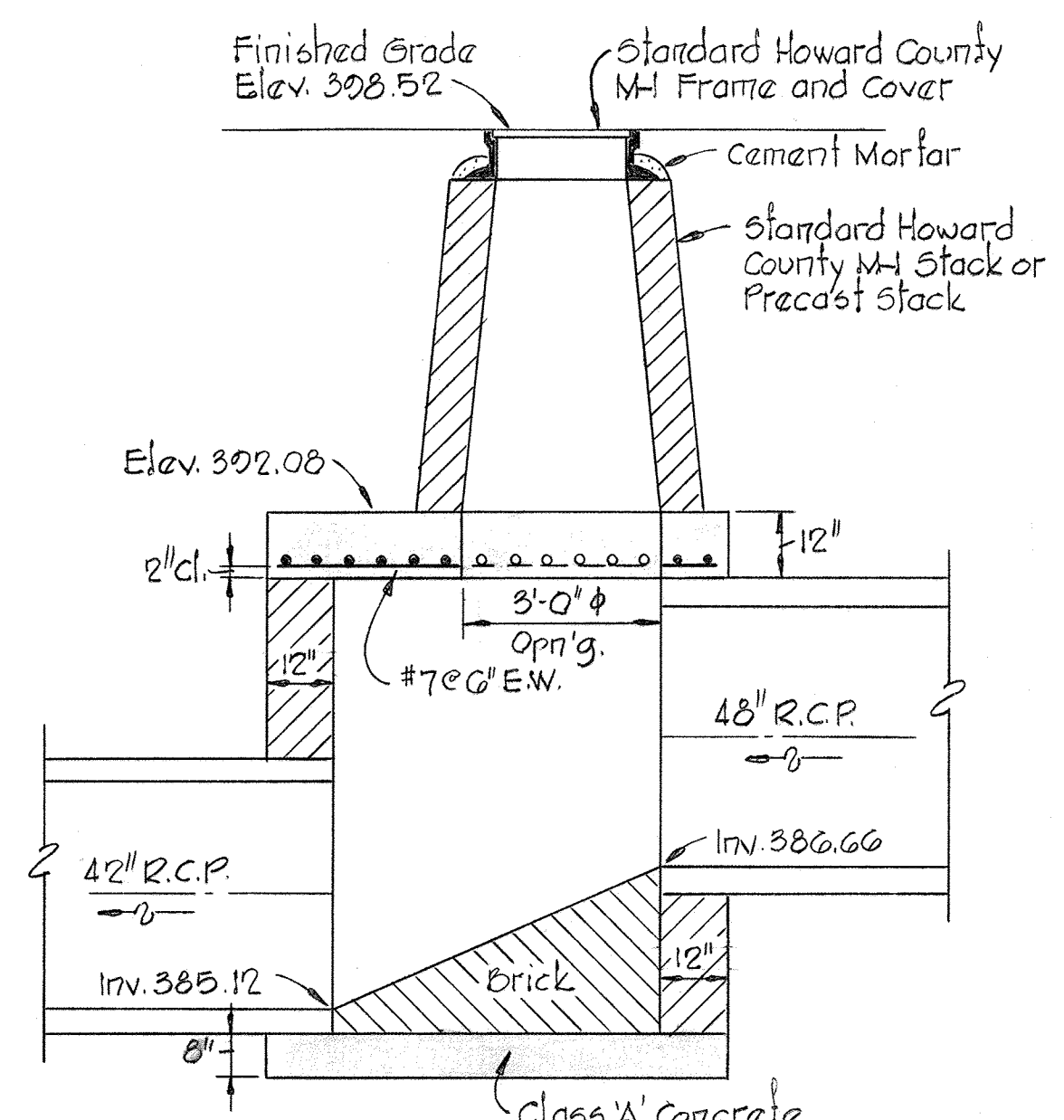
PLAN



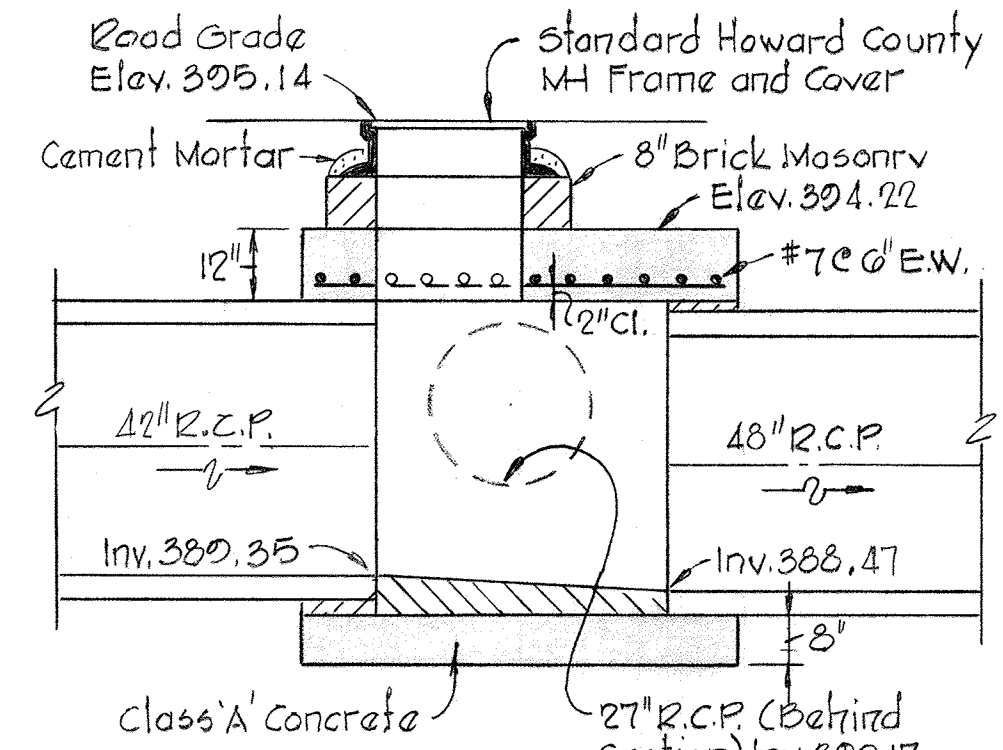
PLAN



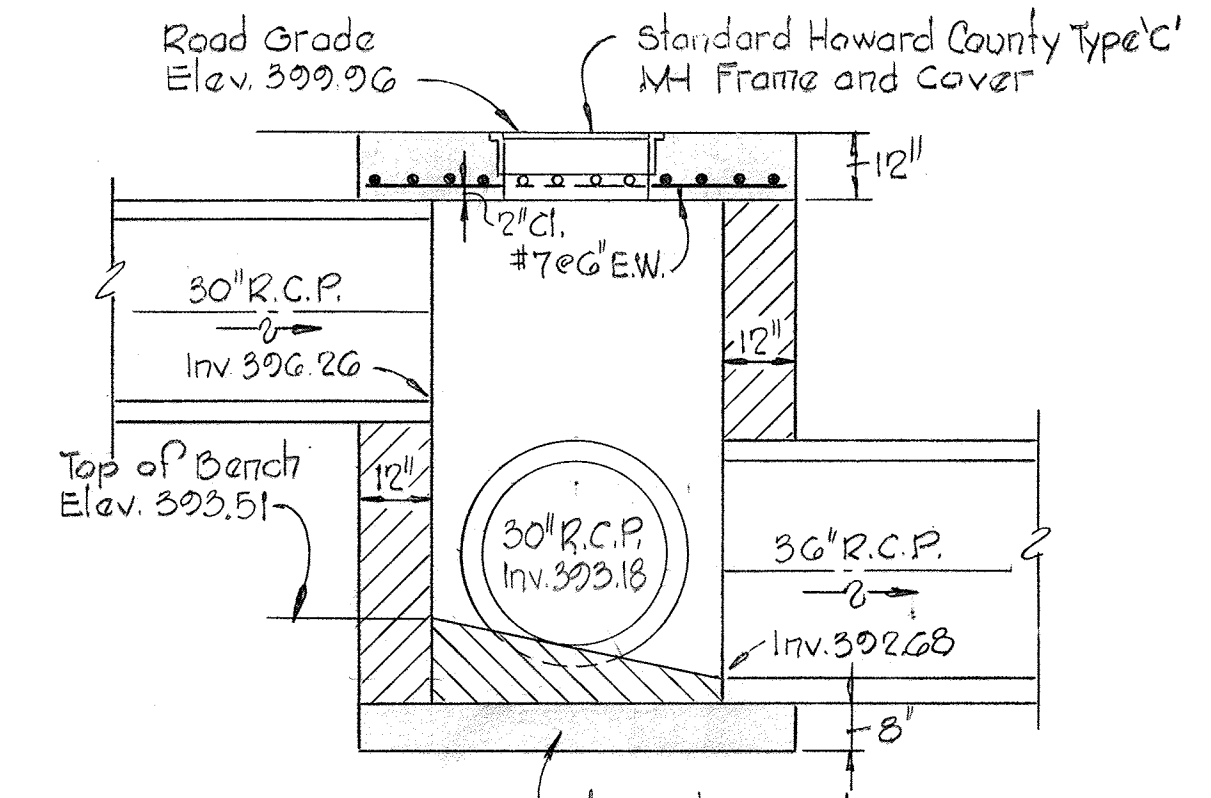
SECTION "A-A"
 MANHOLE #1
 Scale: 3/8" = 1'-0"



SECTION "B-B"
 MANHOLE #2
 Scale: 3/8" = 1'-0"



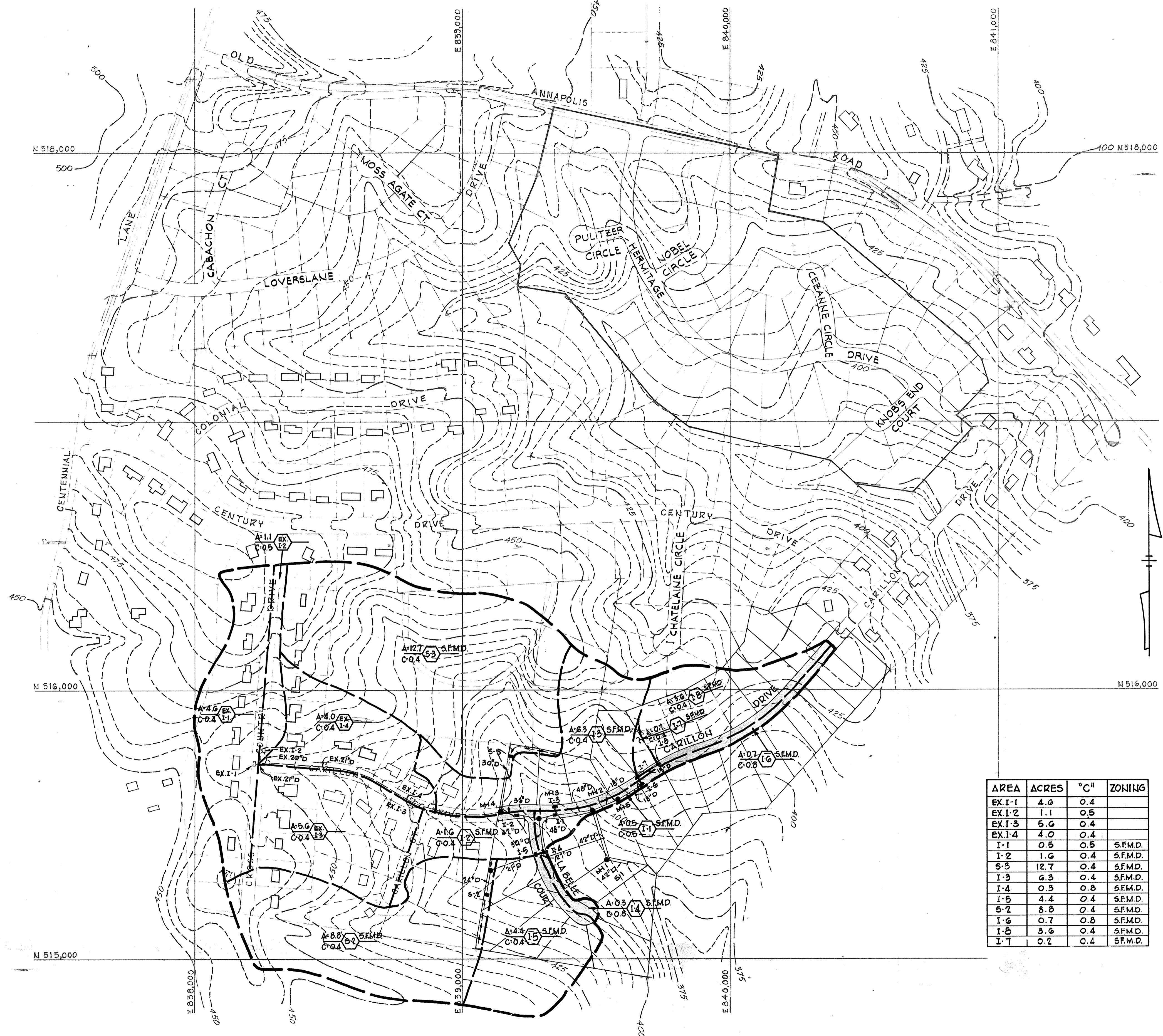
SECTION "C-C"
 MANHOLE #3
 Scale: 3/8" = 1'-0"



SECTION "D-D"
 MANHOLE #4
 Scale: 3/8" = 1'-0"

NOTE:
 Walls, bottom slab and invert shall be brick or plain Class 'A' concrete poured in place.

PROJECT TITLE CHATEAU VALLEY	
SECTION 1 AREA 4 2 ND ELECTION DISTRICT, HOWARD COUNTY, MARYLAND STORM DRAIN DETAILS	
SCALE: AS SHOWN	DATE: 3-1-78
WHITMAN, REQUARDT & ASSOCIATES ENGINEERS BALTIMORE, MARYLAND 21202	
DEVELOPER BICENTENNIAL JOINT VENTURE 8654 BALTIMORE NATIONAL PIKE ELLICOTT CITY, MARYLAND	 Kenneth A. McCord Registered Engineer No. 1974



AREA	ACRES	"C"	ZONING
EX.I-1	4.6	0.4	
EX.I-2	1.1	0.5	
EX.I-3	5.6	0.4	
EX.I-4	4.0	0.4	
I-1	0.5	0.5	S.F.M.D.
I-2	1.6	0.4	S.F.M.D.
S-3	12.7	0.4	S.F.M.D.
I-3	6.3	0.4	S.F.M.D.
I-4	0.3	0.8	S.F.M.D.
I-5	4.4	0.4	S.F.M.D.
S-2	8.5	0.4	S.F.M.D.
I-6	0.7	0.8	S.F.M.D.
I-8	3.6	0.4	S.F.M.D.
I-7	0.2	0.4	S.F.M.D.

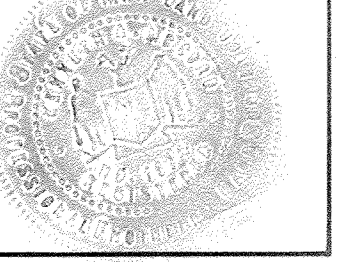
PROJECT TITLE
CHATEAU VALLEY
 SECTION 1 AREA 4
 7TH ELECTION DISTRICT, HOWARD COUNTY, MARYLAND
 DRAINAGE AREA MAP

SCALE: 1"=200' DATE: 3-1-78

WHITMAN, REQUART & ASSOCIATES
 ENGINEERS
 BALTIMORE, MARYLAND 21202

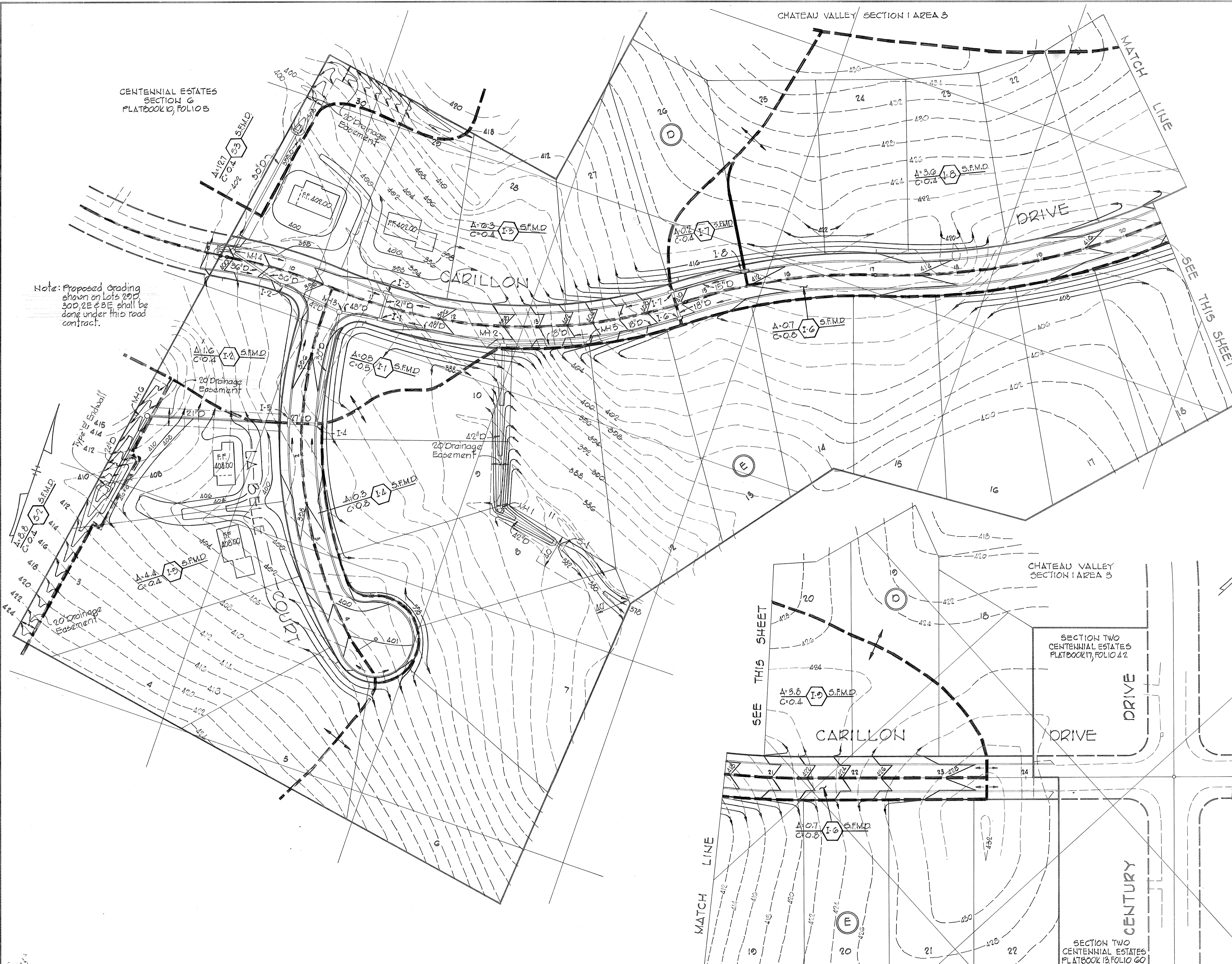
DEVELOPER
 BICENTENNIAL JOINT VENTURE
 8654 BALTIMORE NATIONAL PIKE
 ELLICOTT CITY, MARYLAND

Kenneth A. MeCORD
 KENNETH A. MECORD
 Registered Engineer
 No. 1974



CENTENNIAL ESTATES
 SECTION 6
 PLATBOOK 10, FOLIO 5

Note: Proposed Grading
 shown on Lots 20D,
 30D, 2E & 3E shall be
 done under this road
 contract.



SEE THIS SHEET

SEE THIS SHEET

NOTE:
 SEE SHEET NO. 7 OF 8 FOR
 ENTIRE DRAINAGE AREA.

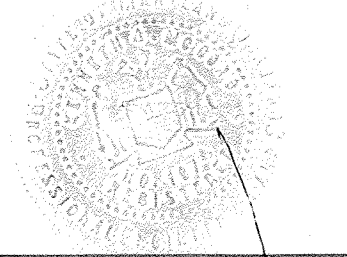
DEVELOPER
 BICENTENNIAL JOINT VENTURE
 8654 BALTIMORE NATIONAL PIKE
 ELLICOTT CITY, MARYLAND

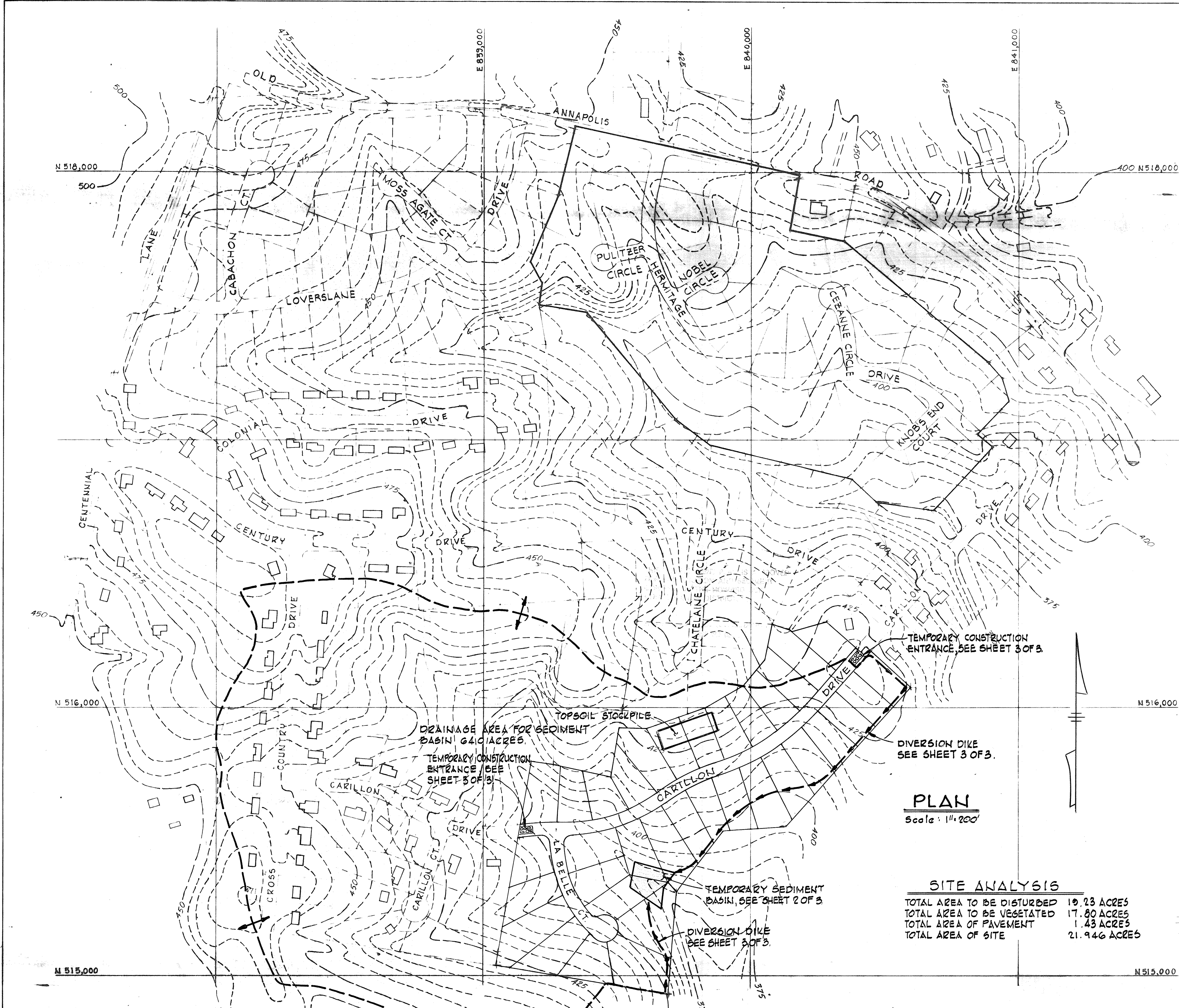
PROJECT TITLE
CHATEAU VALLEY
 SECTION 1 AREA 4
 2ND ELECTION DISTRICT, HOWARD COUNTY, MARYLAND
 DRAINAGE AREA MAP

SCALE: AS SHOWN DATE: 3-1-78

WHITMAN, REQUARDT & ASSOCIATES
 ENGINEERS
 BALTIMORE, MARYLAND 21202

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





PLAN
Scale: 1" = 200'

SITE ANALYSIS

TOTAL AREA TO BE DISTURBED	19.23 ACRES
TOTAL AREA TO BE VEGETATED	17.80 ACRES
TOTAL AREA OF PAVEMENT	1.43 ACRES
TOTAL AREA OF SITE	21.946 ACRES

PERMANENT SEEDING NOTES

- All Sediment Control Measures must be constructed and stabilized according to note 3 prior to any other grading on the site.
- No Temporary Sediment Control Structure may be removed or destroyed without approval of the Howard Soil Conservation District.
- All areas to be seeded (dikes, basins, drainage swales and disturbed areas) at the rate of 80 lbs./acre of the following: Kentucky 31 Tall Fescue - 60 lbs./acre and Korean Lespedeza (Scarify and Inoculate) 20 lbs./acre, immediately after construction. Sow with mechanical spreader, rake minimum two (2) passes with 'York Rake', cover and compact with cultipacker. Surface preparation to include ground limestone over topsoil surface area at the rate of One Ton/acre (50#/1000#) commercial fertilizer (10-10-10) at the rate of 1000 lbs./acre. Mulch areas with straw at rate of Two Tons/Acre. Anchor with asphalt at the rate of 480 gallons/acre. Drainage Swales with slopes greater than 2% will be mulched as stated but the mulch in the center of the channel will be anchored with plastic netting 1/2" according to manufacturers recommendations. Stabilizations of slopes steeper than 3:1 shall be planted with Kentucky 31 Tall Fescue - 40#/acre (14/1000#) and Crownvetch (Scarify and Inoculate) 18 lbs./acre.

SODDING NOTES

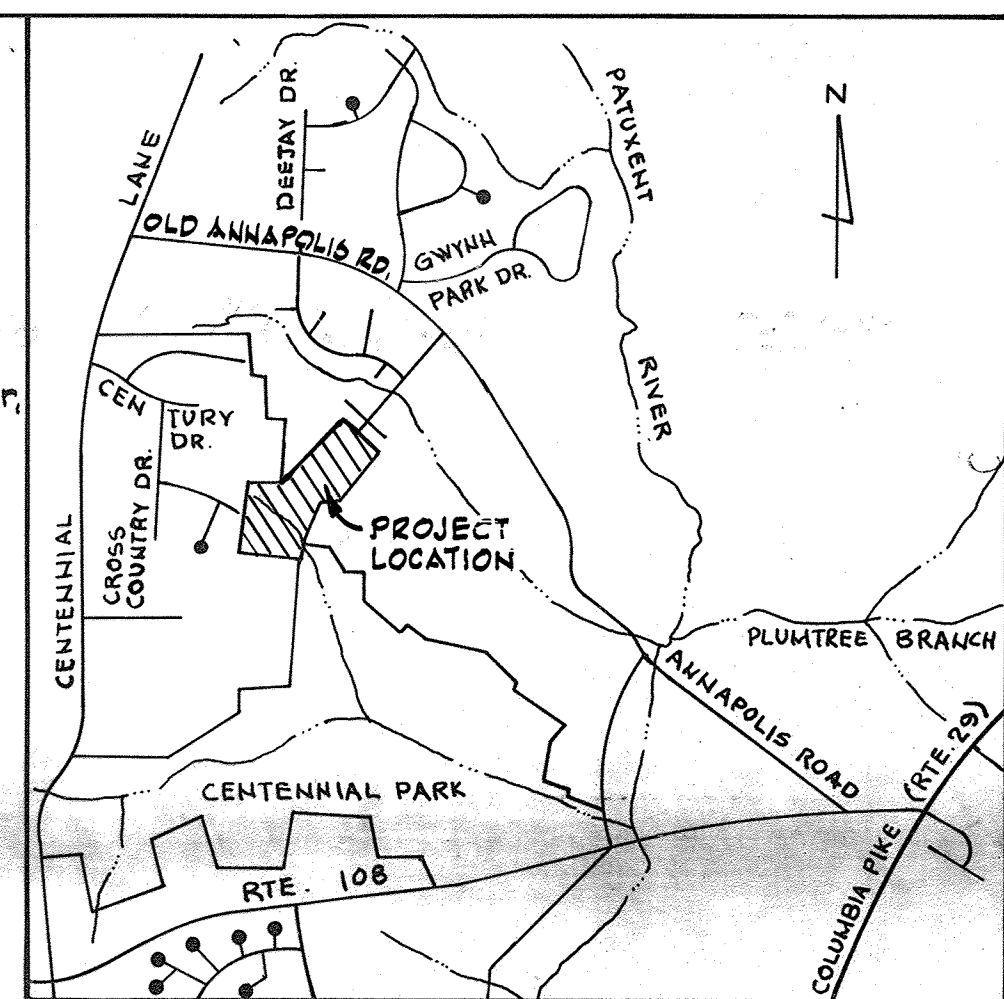
- Apply 10-10-10 fertilizer @ 1000#/acre (25#/1000#).
- Apply Ground Agricultural Limestone @ 2000#/acre (50#/1000#).
- Incorporate both lime and fertilizer into soil by discing. Firm up after incorporation.
- Lay sod to a tight fit. Roll to ensure contact with underlying soil. Water as necessary for 1" 2 weeks (in summer) to ensure establishment.

LAWN SEEDING NOTES

- All Sediment Control Measures must be constructed and stabilized according to note 3 prior to any other grading on the site.
- No Temporary Sediment Control Structure may be removed or destroyed without approval of the Howard Soil Conservation District.
- All lawn areas to be seeded at the rate of 1 1/2 lbs./acre (3 lbs./1000#) of the following: Certified Bluegrass - 65 1/2 lbs./acre (1 1/2 lbs./1000#) and Creeping Red Fescue - 65 1/2 lbs./acre (1 1/2 lbs./1000#) immediately after construction. Sow with a mechanical spreader, rake minimum two (2) passes with 'York Rake', cover and compact with cultipacker. Surface preparation to include ground limestone over topsoil surface area at the rate of One Ton/acre (50#/1000#) commercial fertilizer (10-10-10) at the rate of 1000 lbs./acre. Mulch areas with straw at the rate of 50 lbs./acre or One Ton/acre. Anchor with asphalt at the rate of 480 gallons/acre. Drainage Swales with slopes greater than 2% will be mulched as stated but the mulch in the center of the channel will be anchored with plastic netting 1/2" according to manufacturers recommendations.

SEQUENCE OF CONSTRUCTION

- Owner shall secure a grading permit prior to any grading.
- Install stone base course at entrance to Carillon Drive
- Clear grub and strip the areas required for the construction of temporary sediment basin and construct dikes as shown on this plan, utilizing the topsoil for street areas.
- Topsoil from basin excavation shall be stockpiled where designated on this sheet. Stabilize topsoil stockpile immediately after completion, according to Note 3.
- Construct the temporary sediment basins and stabilize immediately after completion.
- Clear and strip the site as required and construct topsoil stockpile where designated on this sheet and stabilize immediately after completion, according to Note 3.
- Stabilize all dikes, slopes and swales as required immediately after grading is completed.
- Construct storm drain system and cap inlet. Any open storm drains to be covered with plywood at the end of each working day.
- Complete roadway construction, including mountable curb and gutter and asphalt paving.
- Stabilize all drainage ditches immediately after completion. According to Note 3 (Sodding)
- Temporary Sediment Basin and Diversion Dikes shall remain in place after road construction is completed and shall at that time be incorporated into the Sediment Control Plan for lot grading.



VICINITY MAP
Scale: 1" = 2000'

GENERAL NOTES

- Temporary, compacted, 18" High Earth Fill Diversion Dikes shall be constructed above the lips of Fill Slopes on the R.O.W. concurrently with the initial grading and directed to undisturbed sod areas at the end of each day.
- Contractor to notify the Howard County Bureau of Inspection and permits 465-5000 X 365 at least 3 days before starting work shown on these drawings.
- All disturbed slope areas to be stabilized as soon as grading is completed.
- Separate sediment control plans will be submitted at a later date to provide protection during house construction and lot grading. Approval of this plan is not intended to imply approval of grading for home construction. (See # 7)
- All swales shall be sodded and tamped, and all slopes shall be seeded or sodded in conjunction with the Howard County Soil Conservation District and the Howard County Planning Board Standards entitled "Standards and Specifications for Soil Erosion and Sediment Control in Urbanizing Areas."
- Contractor shall provide perforated Erosion Control Blankets in all Drainage Swales & Ditches as noted. The Blankets which shall be 7' wide or approved equal, shall be placed full width of Swales. Seeding required under Blankets. See permanent seeding notes.
- Sediment control shown on these drawings is adequate for lot grading during home construction although approval of these plans is for road construction.
- Sediment basin and diversion dikes shall remain in place until lot grading is complete and the entire area stabilized.

WHITMAN, REQUARDT & ASSOCIATES
ENGINEERS
1304 ST. PAUL STREET
BALTIMORE, MARYLAND
Kenneth A. McCord
KENNETH A. McCORD, P.E. 1974

Reviewed for Howard S.C.D. and meets Technical Requirements
L. Wayne Ray Date 3/23/78
Signature
U.S. Soil Conservation Service

THIS DEVELOPMENT PLAN IS APPROVED FOR SOIL EROSION AND SEDIMENT CONTROL BY THE HOWARD SOIL CONSERVATION DISTRICT
Approved *W.E. FARR* Date 3-23-78
Howard S.C.D.

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.
Rudolph Arzrael 3/6/78
Signature of Developer 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 1-4-77
KENNETH A. McCord P.E. 1974 Date

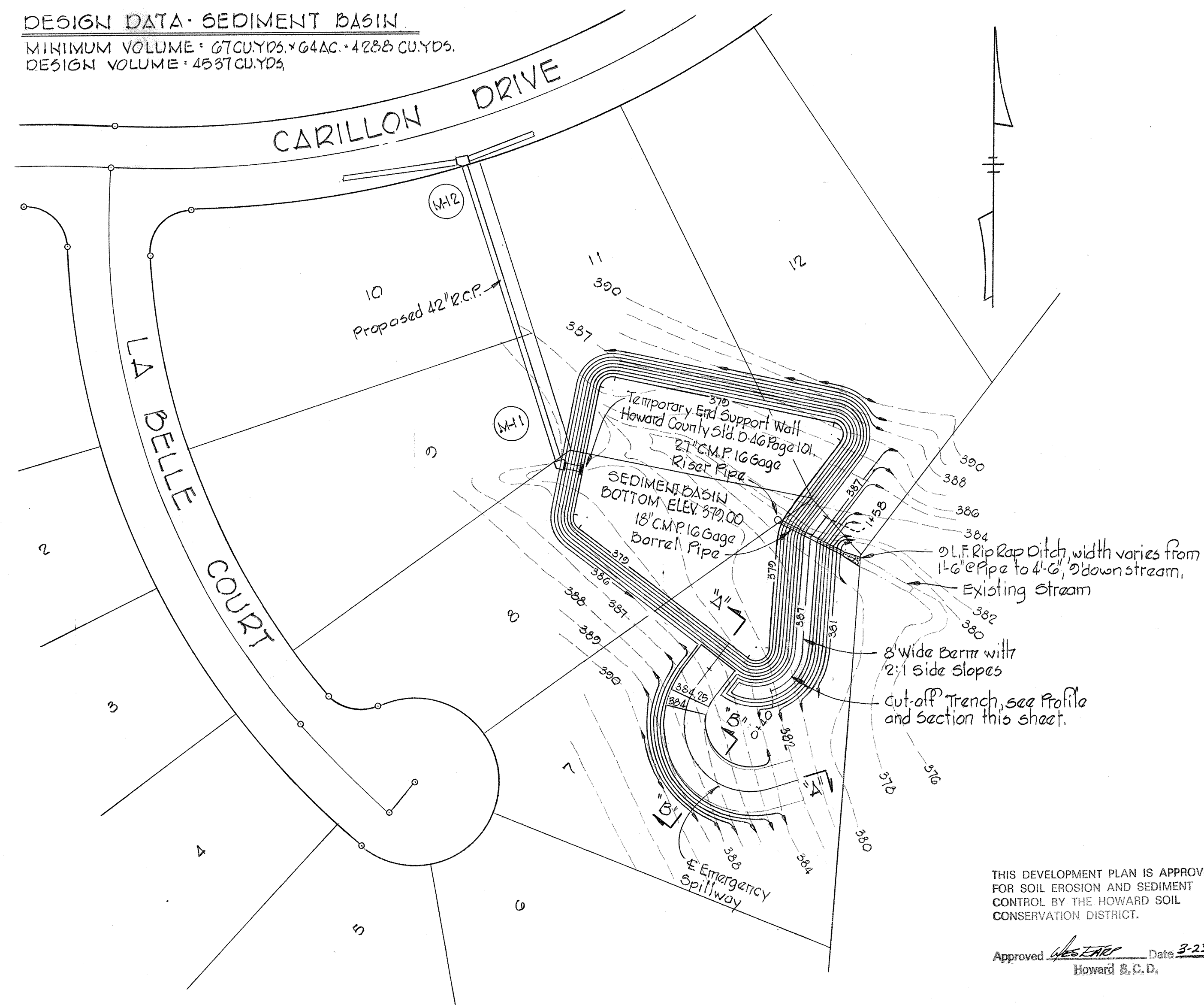
DEPARTMENT OF PUBLIC WORKS
W.O. Fallick 3-30-78
CHIEF, BUREAU OF ENGINEERING DATE
OFFICE OF PLANNING AND ZONING
CHIEF DIVISION OF LAND DEVELOPMENT DATE

CHATEAU VALLEY
SECTION 1 AREA 4
SEDIMENT CONTROL PLAN
2ND ELECTION DISTRICT OF HOWARD COUNTY, MD
Date: 3-1-78 Scale: As Shown

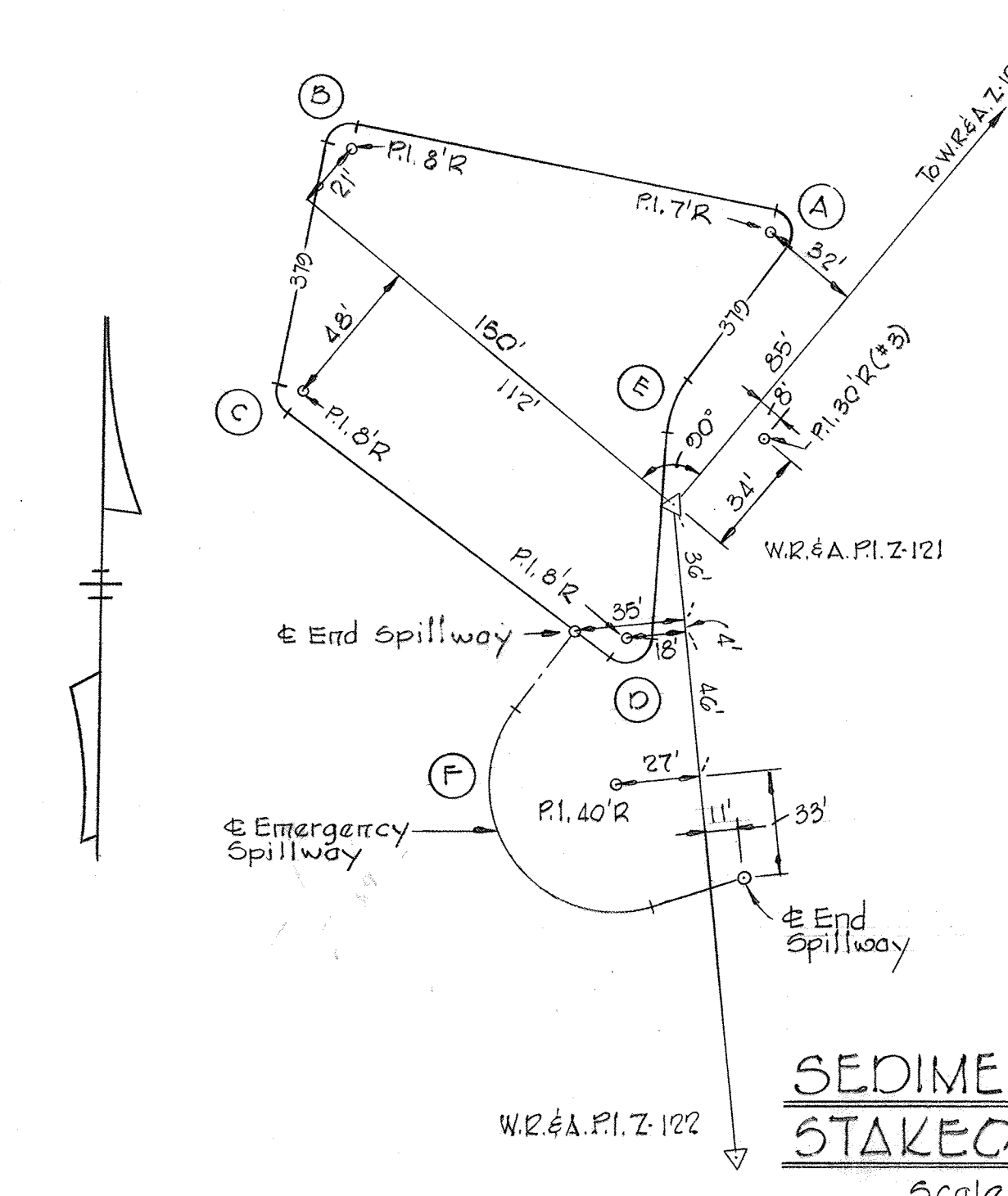
DESIGN DATA - SEDIMENT BASIN

MINIMUM VOLUME = 67 CU.YDS. + 64 AC. = 4288 CU.YDS.
 DESIGN VOLUME = 4537 CU.YDS.

DEPARTMENT OF PUBLIC WORKS
W. O. Gilbert 3-30-78
 CHIEF, BUREAU OF ENGINEERING DATE
 OFFICE OF PLANNING AND ZONING
John W. Muddelmann 3-28-78
 CHIEF, DIVISION OF LAND DEVELOPMENT DATE



PLAN
 Scale: 1" = 30'

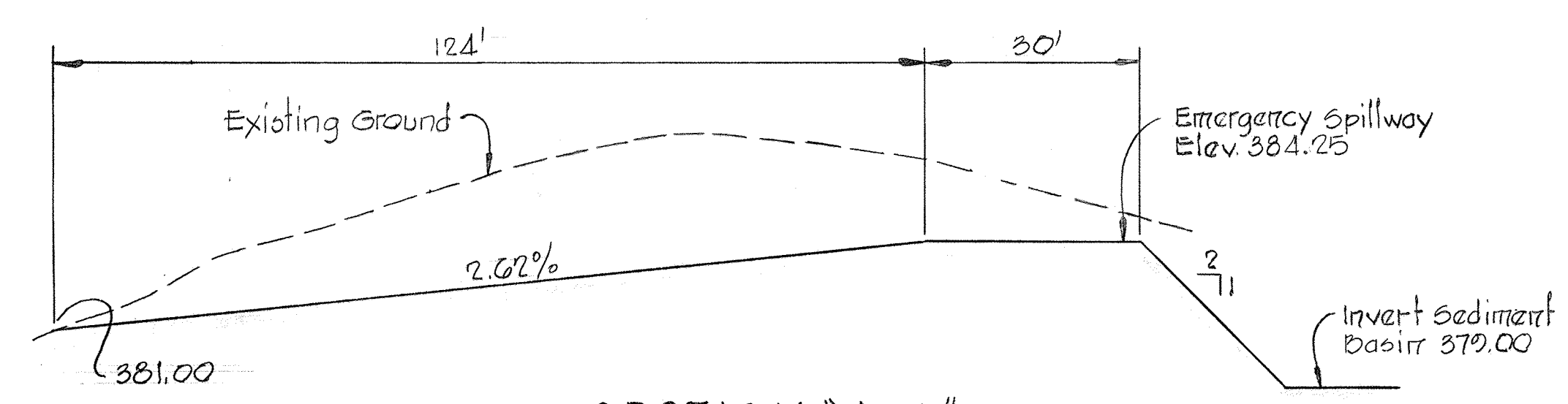


SEDIMENT BASIN STAKEOUT PLAN
 Scale: 1" = 30'

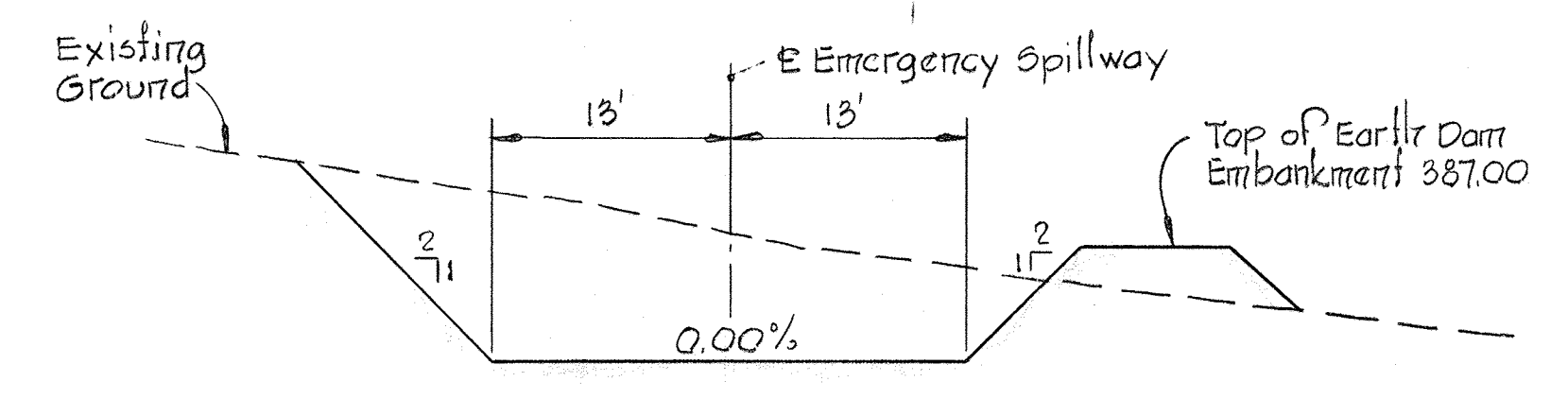
CURVE DATA

(A)	Δ: 118°	R: 7'	Arc: 14.42'	T: 11.64'
(B)	Δ: 90°	R: 8'	Arc: 12.57'	T: 8'
(C)	Δ: 64°30'	R: 8'	Arc: 9.01'	T: 5.04'
(D)	Δ: 123°	R: 8'	Arc: 17.17'	T: 14.73'
(E)	Δ: 33°	R: 30'	Arc: 17.28'	T: 3.89'
(F)	Δ: 144°	R: 40'	Arc: 100.53'	T: 123.11'

THIS DEVELOPMENT PLAN IS APPROVED FOR SOIL EROSION AND SEDIMENT CONTROL BY THE HOWARD SOIL CONSERVATION DISTRICT.
 Approved *Howard S.C.D.* Date 3-23-78

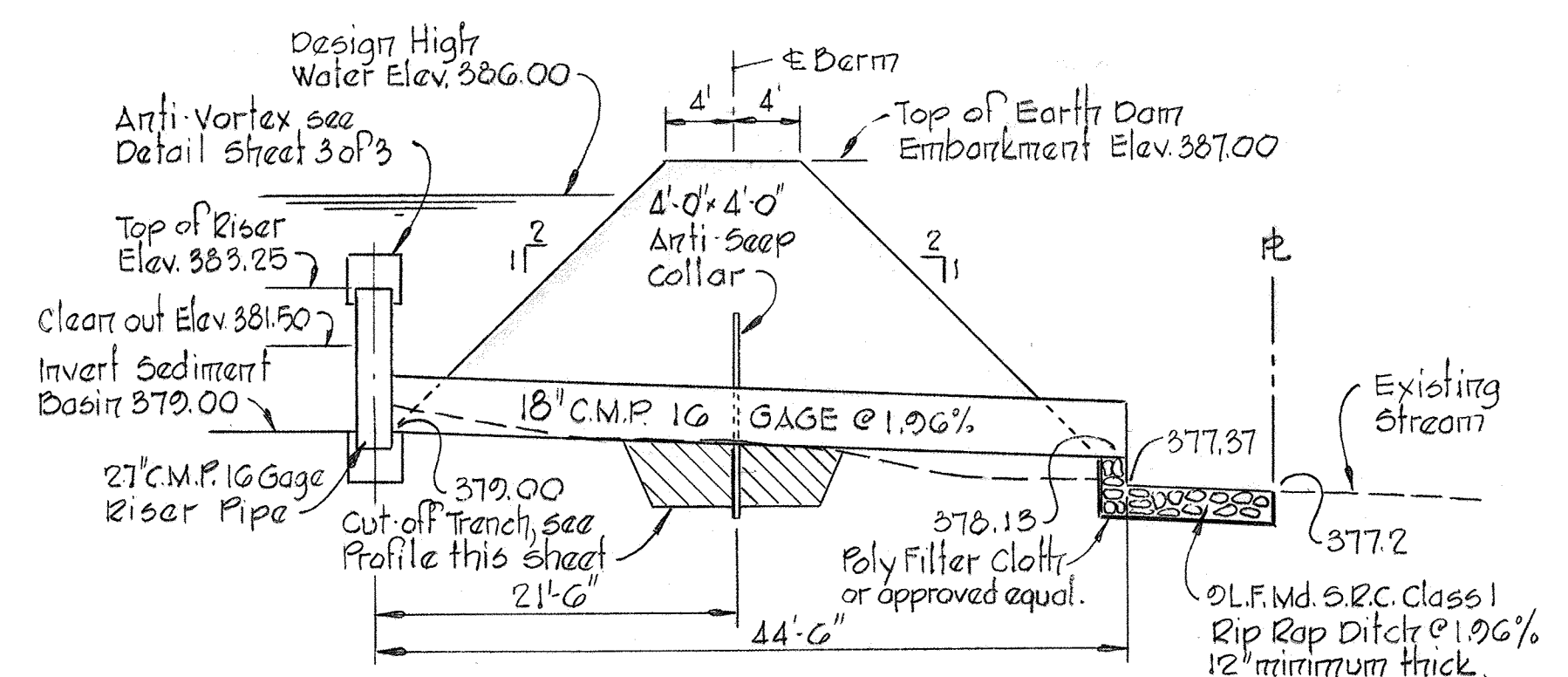


SECTION "A-A"



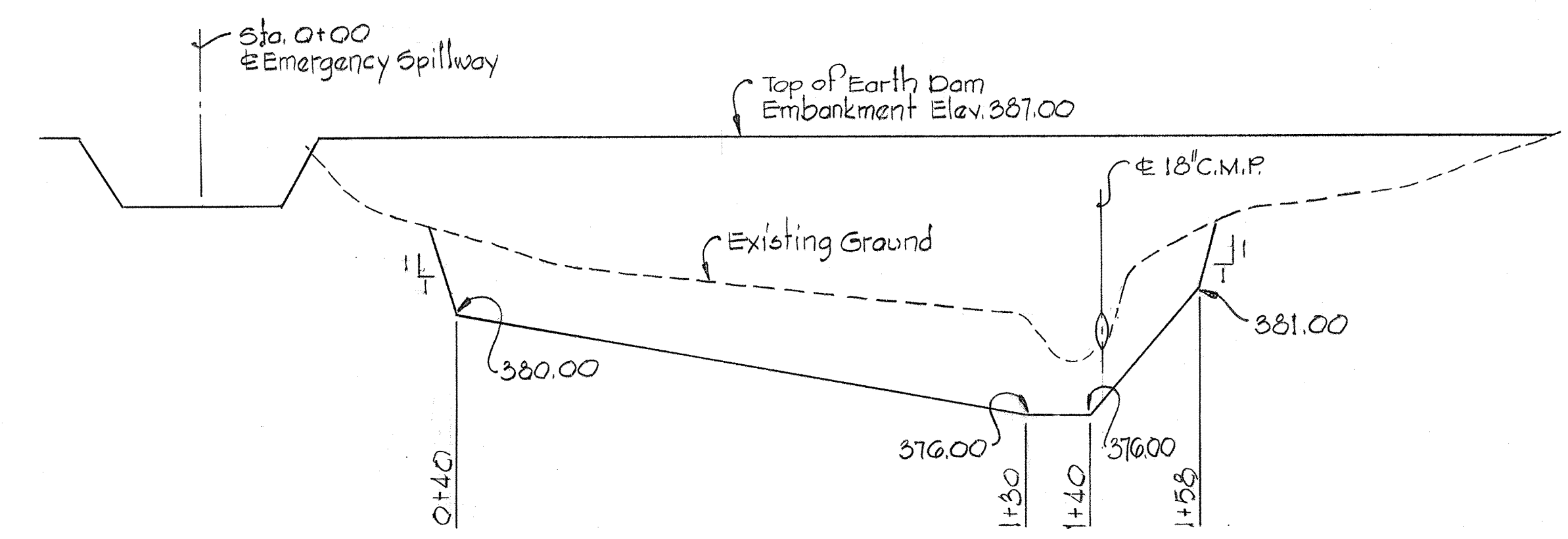
SECTION "B-B"

SECTIONS THRU EMERGENCY SPILLWAY
 No Scale

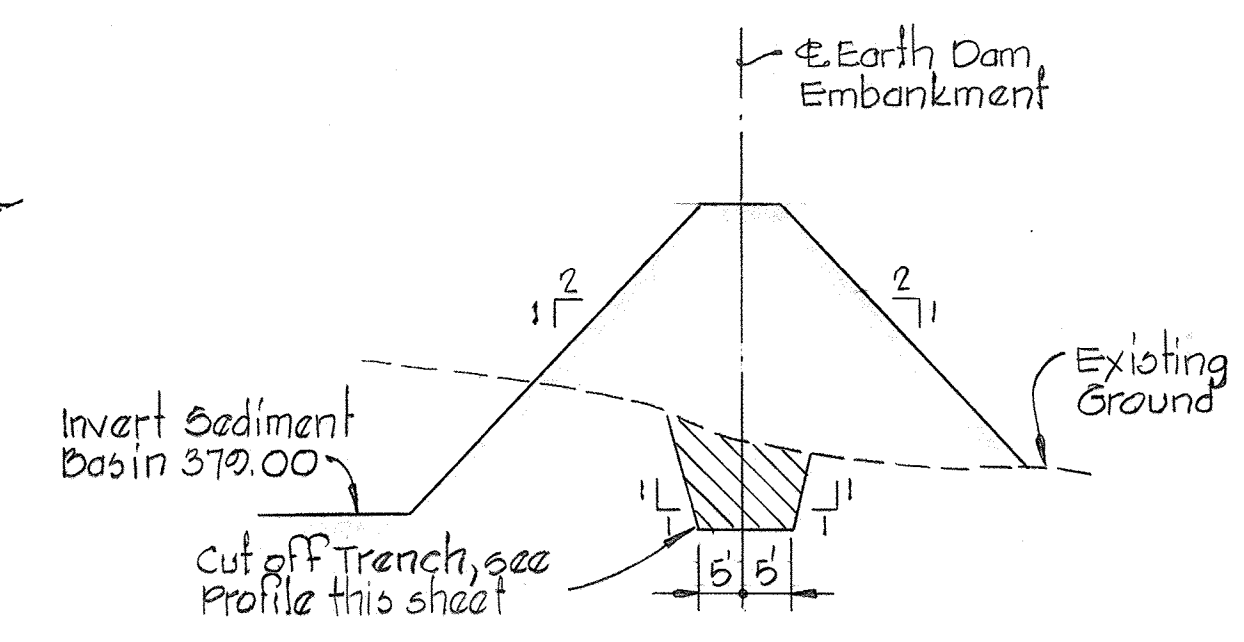


SECTION THRU BERM @ 18" C.M.P.
 No Scale

Reviewed for *Howard* S.C.D. Name
 and meets Technical Requirements
John W. Muddelmann Date 3/23/78
 Signature
 U.S. Soil Conservation Service



PROFILE - EARTH DAM AND CUT-OFF TRENCH
 No Scale



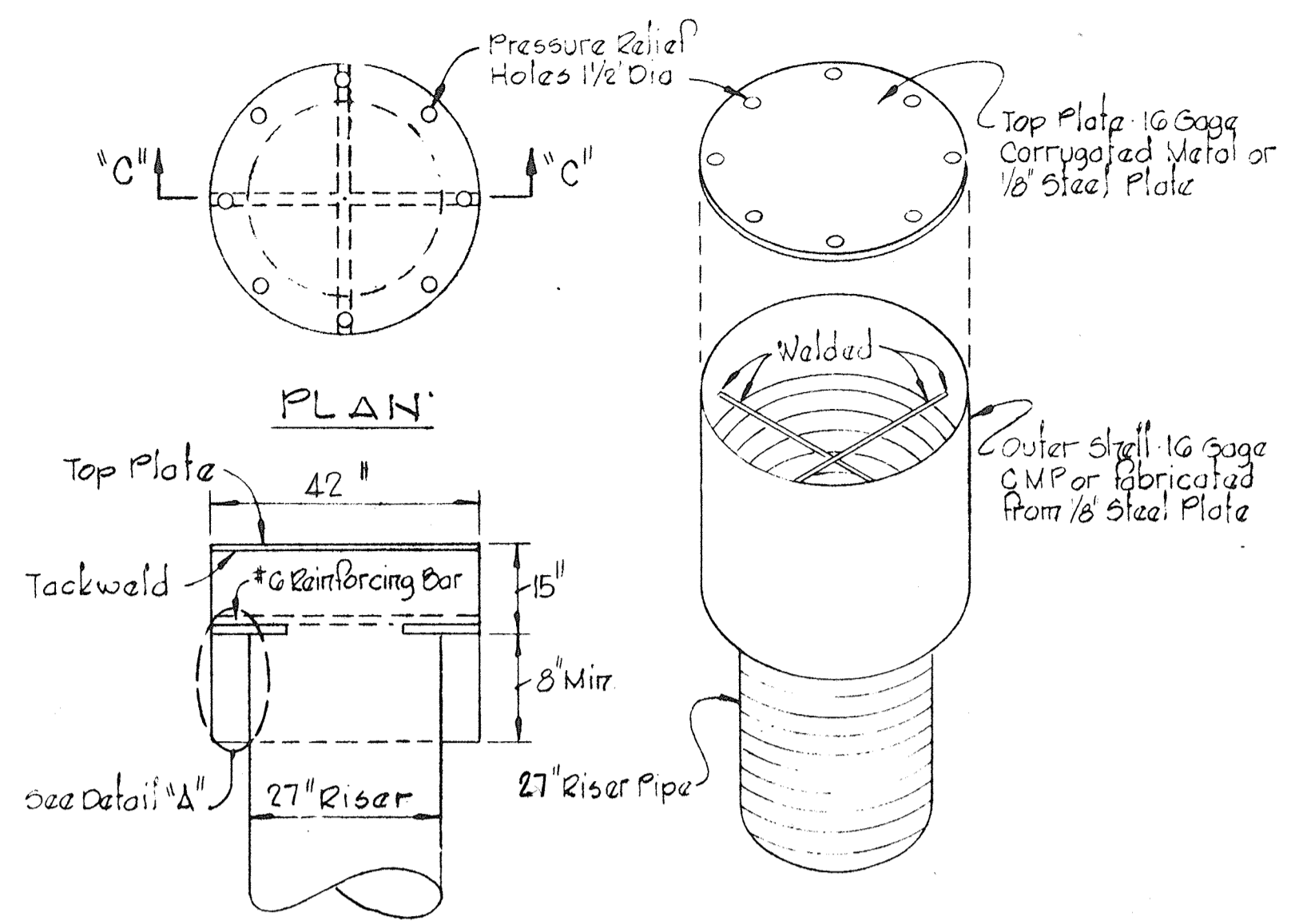
SECTION - CUT-OFF TRENCH
 No Scale

Note: Compaction requirements for cut-off trench to be the same as embankment compaction, see Standards and Specifications for Soil Erosion and Sediment Control in Developing Areas Page 19.07.

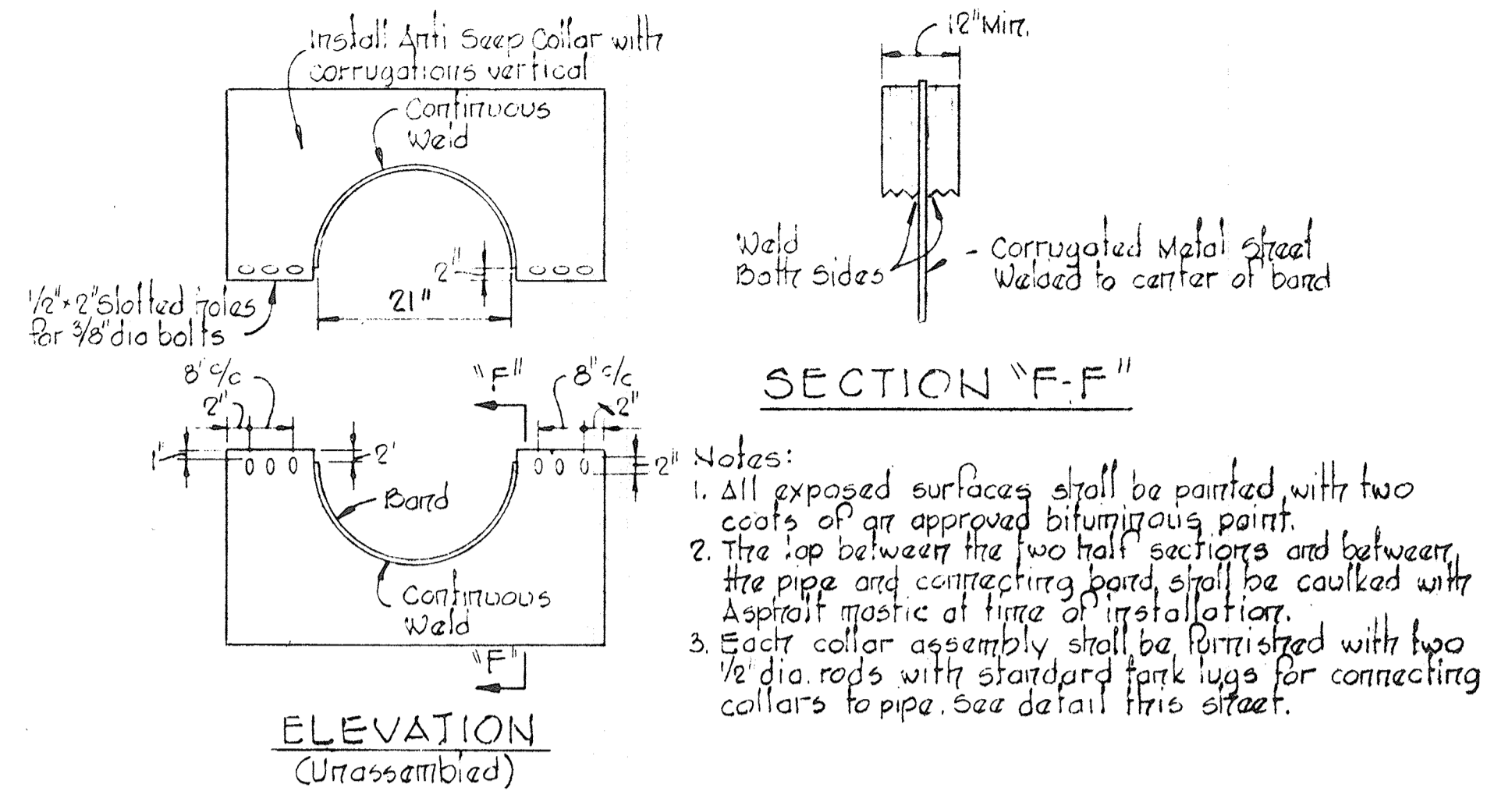
DEVELOPER
 BICENTENNIAL JOINT VENTURE
 8654 BALTIMORE NATIONAL PIKE
 ELLICOTT CITY, MARYLAND

PROJECT TITLE
CHATEAU VALLEY
 SECTION AREA 4
 2ND ELECTION DISTRICT, HOWARD COUNTY, MARYLAND
 SEDIMENT CONTROL PLAN AND SECTIONS
 SCALE: AS SHOWN DATE: 3-1-78
 WHITMAN, REQUARDT & ASSOCIATES
 ENGINEERS
 BALTIMORE, MARYLAND 21202

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

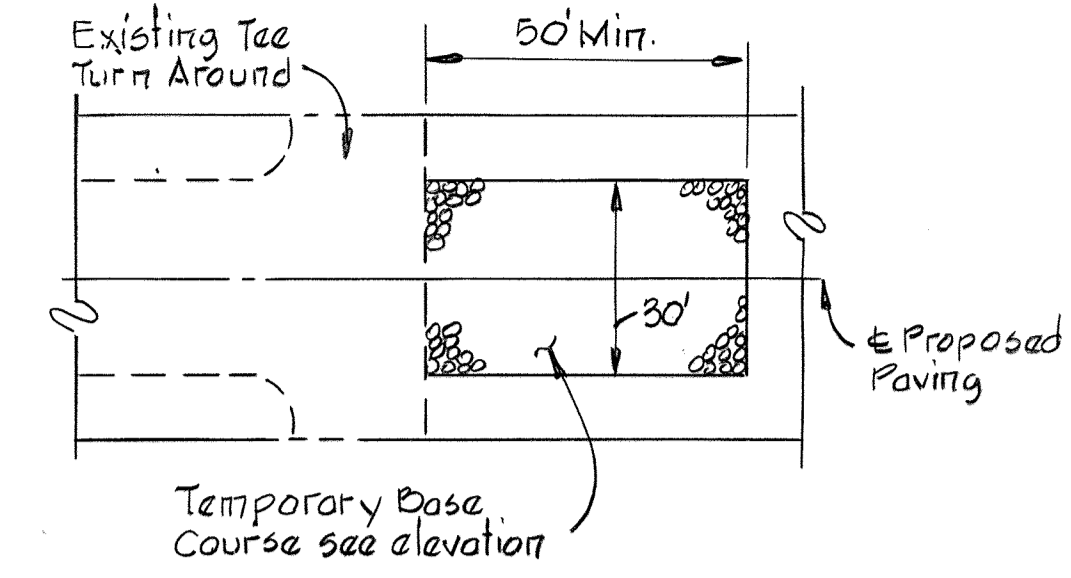


SECTION "C-C" ISOMETRIC



ELEVATION (Unassembled) SECTION "F-F"
 DETAIL-CORRUGATED METAL ANTI-SEEP COLLAR
 No Scale

- Notes:
1. All exposed surfaces shall be painted with two coats of an approved bituminous paint.
 2. The lap between the two half sections and between the pipe and connecting band, shall be caulked with Asphalt mastic at time of installation.
 3. Each collar assembly shall be furnished with two 1/2 dia. rods with standard tank lugs for connecting collars to pipe. See detail this sheet.

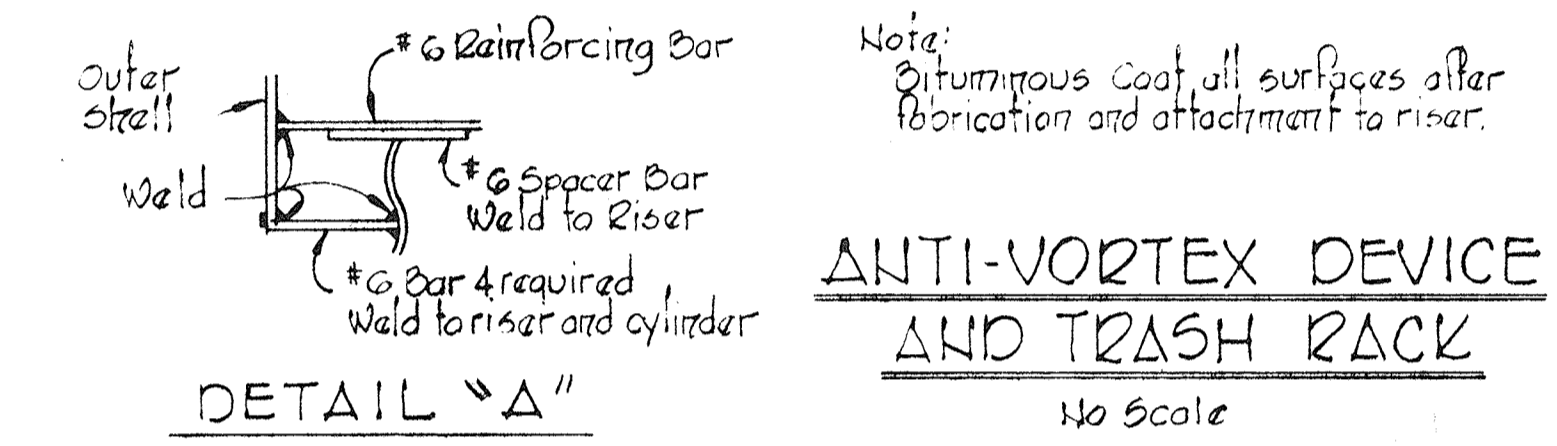


PLAN ELEVATION
 STABILIZED CONSTRUCTION ENTRANCE DETAIL
 No Scale

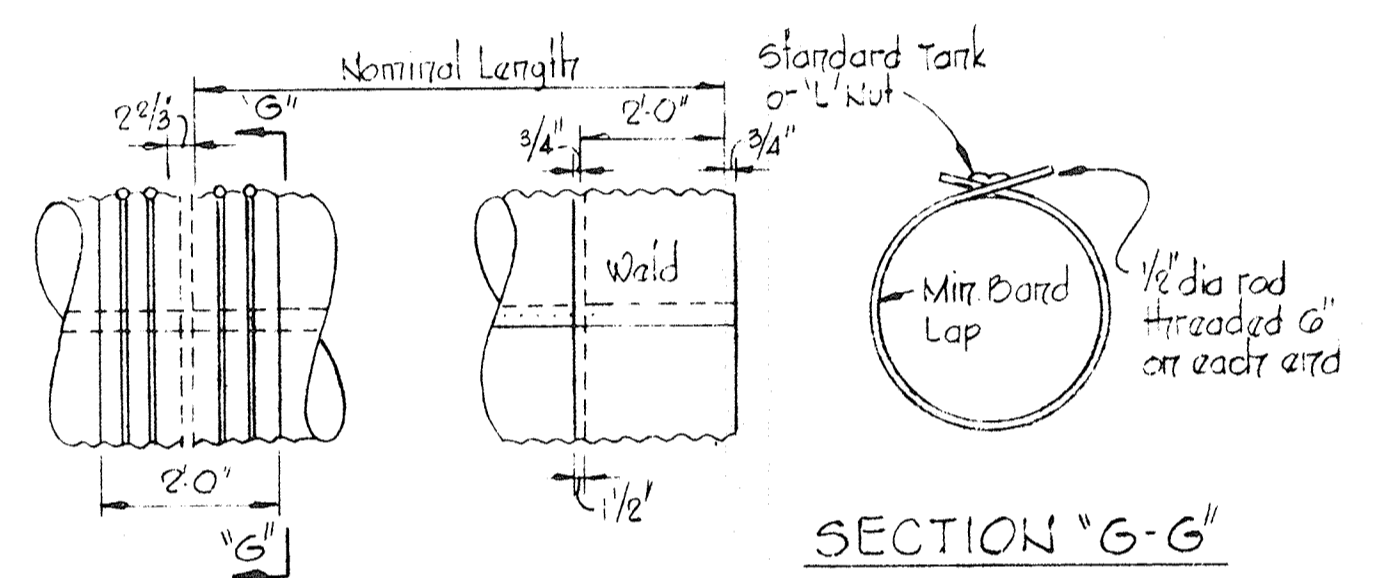
THIS DEVELOPMENT PLAN IS APPROVED FOR SOIL EROSION AND SEDIMENT CONTROL BY THE HOWARD SOIL CONSERVATION DISTRICT.

Approved *Wes Eyer* Date 3-23-78
 Howard S. D.

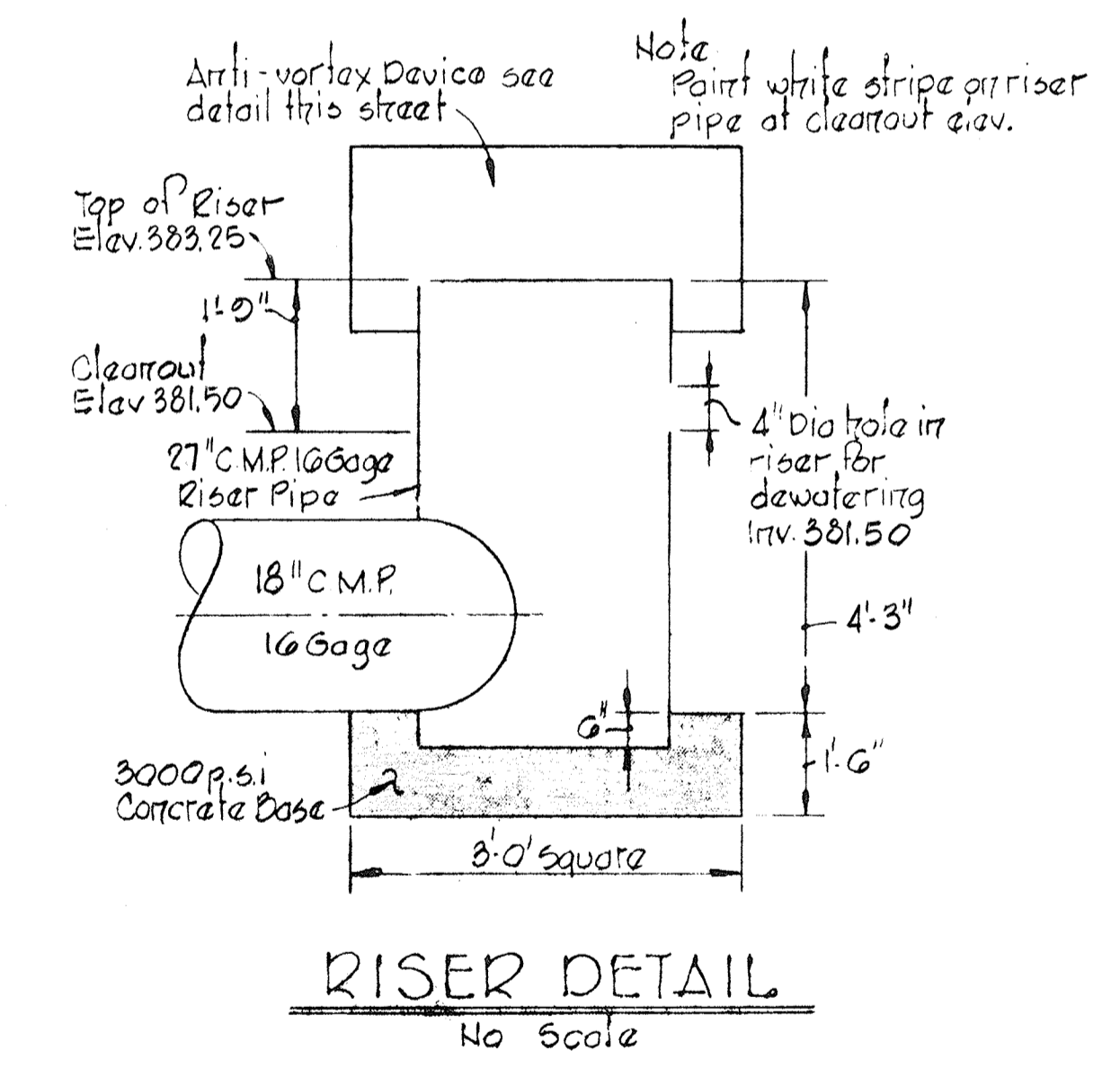
Reviewed for *Howard* S.O.D.
 Name
 and meets Technical Requirements
C. ... Date 3/23/78
 Signature
 U.S. Soil Conservation Service



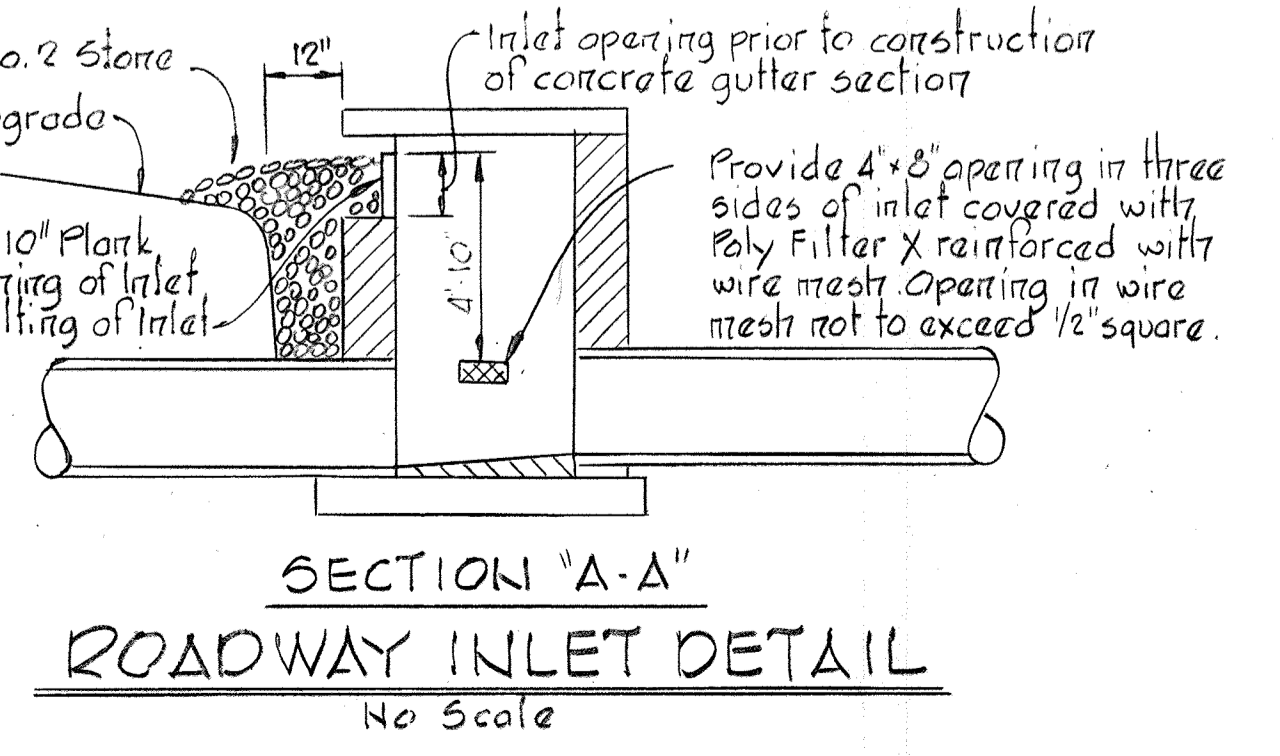
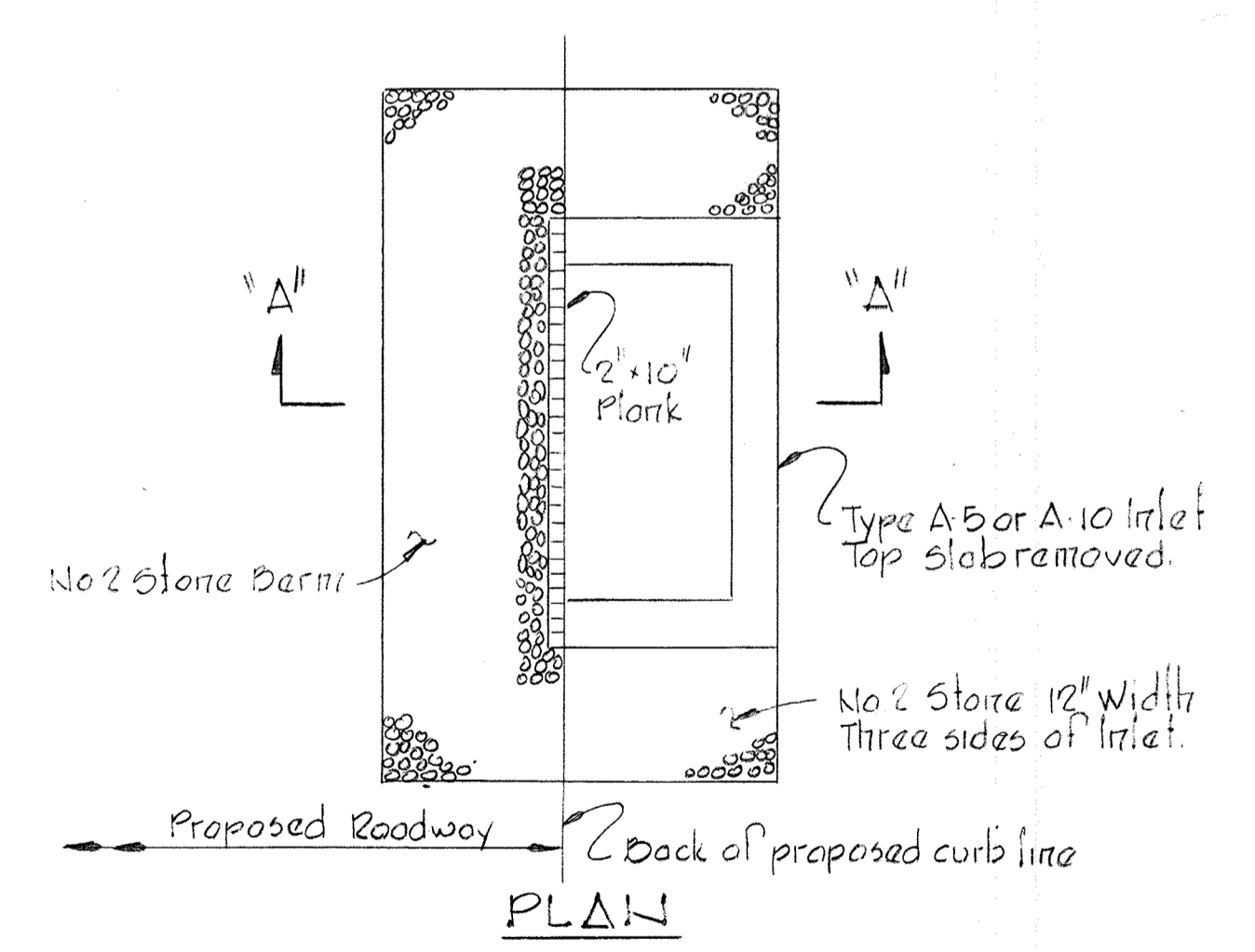
ANTI-VORTEX DEVICE AND TRASH RACK
 No Scale



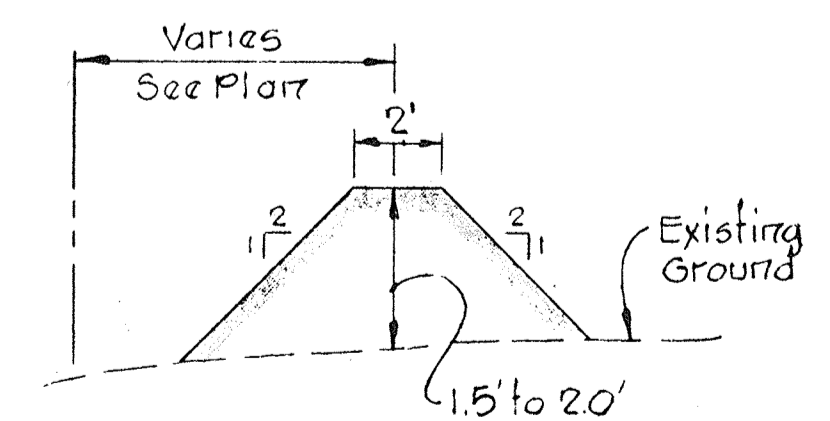
ELEVATIONS SECTION "G-G"
 DETAIL-WATER TIGHT COUPLING BAND
 No Scale



RISER DETAIL
 No Scale



SECTION "A-A"
 ROADWAY INLET DETAIL
 No Scale



DIERSION DIKE
 No Scale

PROJECT TITLE
CHATEAU VALLEY
 SECTION 1 AREA 4
 2ND ELECTION DISTRICT, HOWARD COUNTY, MARYLAND
 SEDIMENT CONTROL DETAILS
 SCALE: AS SHOWN DATE: 3-1-78
 WHITMAN, REQUAZOT & ASSOCIATES
 ENGINEERS
 BALTIMORE, MARYLAND 21202

DEVELOPER
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 8654 BALTIMORE NATIONAL PIKE
 ELLICOTT CITY, MARYLAND

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