

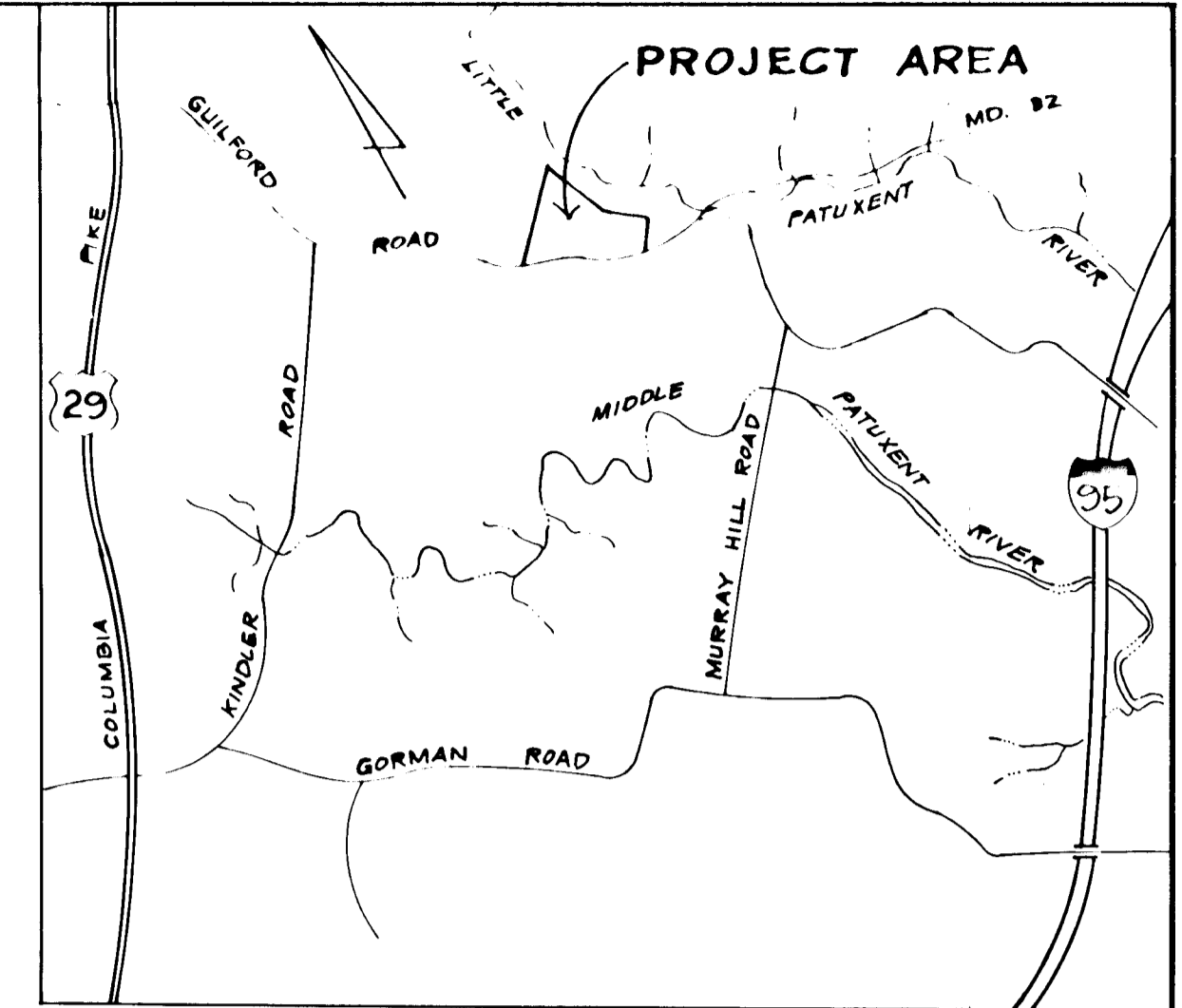
SHEET INDEX	
NO	DESCRIPTION
1	TITLE SHEET
2	DETAIL SHEET
3	PLAN - BLUE SEA DRIVE AND SANDROPE COURT
4	PROFILE - BLUE SEA DRIVE AND SANDROPE COURT
5	DRAINAGE AREA MAP
6	STORM DRAIN PROFILES
7	SEDIMENT CONTROL PLAN
8	SEDIMENT CONTROL DETAILS

VILLAGE OF KING'S CONTRIVANCE

SECTION 2, AREA 3

6TH ELECTION DISTRICT

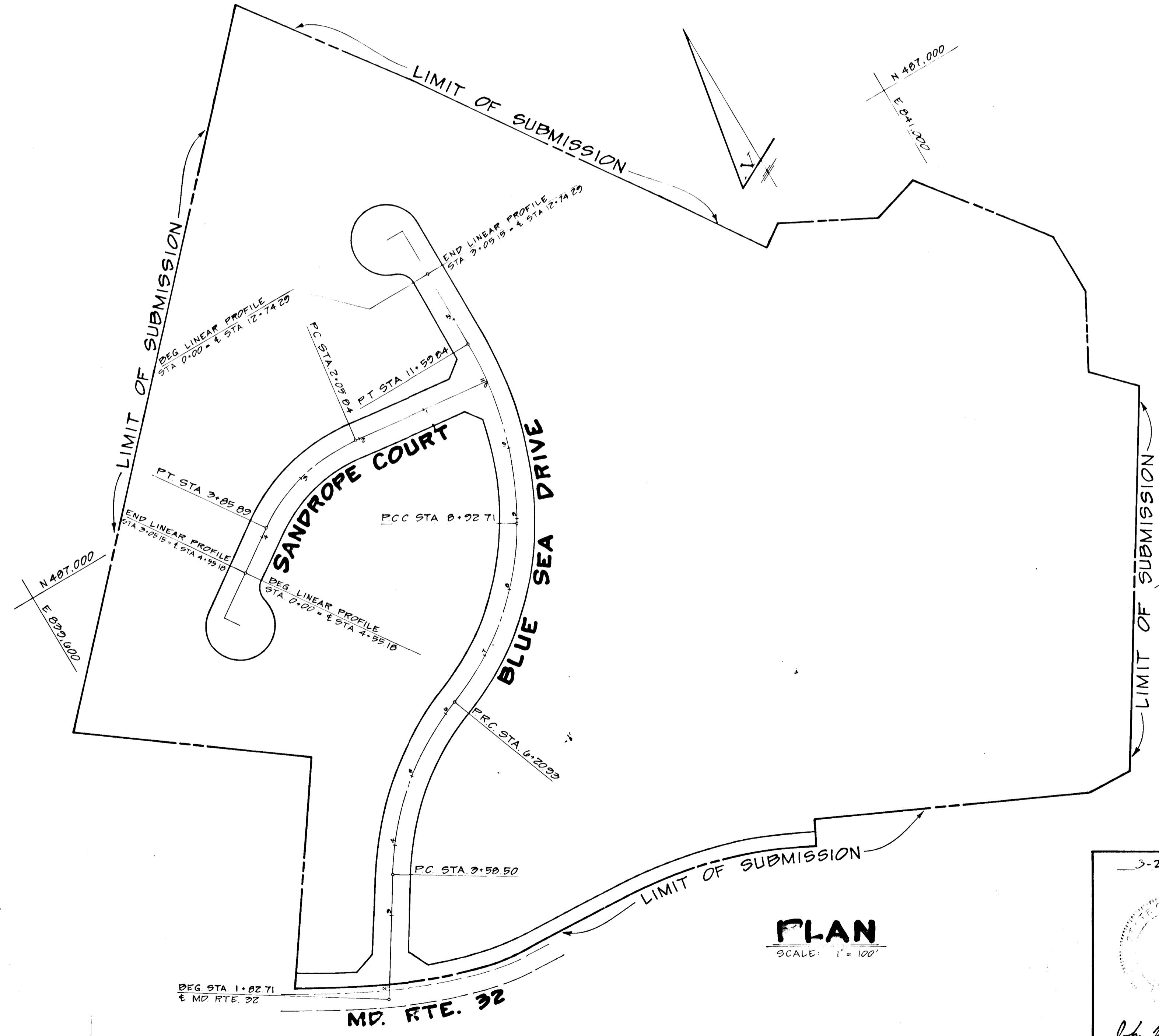
HOWARD COUNTY, MARYLAND



VICINITY MAP
SCALE: 1" = 2000'

AS-BUILT SURVEY DATA BY
WALTER PARK, MD. L.S. 5591,
SIGNED, SEALED, DATED 9/23/82

- GENERAL NOTES
- ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE HOWARD COUNTY ROAD CONSTRUCTION CODE AND STANDARD SPECIFICATIONS.
 - APPROXIMATE LOCATION OF EXISTING UTILITIES ARE SHOWN. THE CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO PROTECT THE EXISTING UTILITIES AND MAINTAIN UNINTERRUPTED SERVICE. ANY DAMAGE INCURRED DUE TO CONTRACTOR'S OPERATION 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.
 - CONTRACTOR TO NOTIFY THE FOLLOWING UTILITIES AT LEAST THREE DAYS BEFORE STARTING WORK SHOWN ON THIS/ THESE DRAWINGS:
BELL TELEPHONE SYSTEM 393-3649
LONG DISTANCE CABLE DIVISION 393-3553 or 3554
BALTIMORE GAS AND ELECTRIC COMPANY 539-3000 Ext. 691
 - ALL INLETS SHALL BE CONSTRUCTED IN ACCORDANCE WITH HOWARD COUNTY STANDARDS, UNLESS OTHERWISE SHOWN.
 - ALL STREET CURB RETURNS SHALL HAVE 35.0' RADII UNLESS OTHERWISE NOTED.
 - STORM DRAIN TRENCHES WITHIN ROAD RIGHT-OF-WAY SHALL BE BACKFILLED AND COMPACTED IN ACCORDANCE WITH HOWARD COUNTY ROAD CODE.
 - INSTALLATION OF TRAFFIC CONTROL DEVICES, MARKING, AND SIGNING SHALL BE IN ACCORDANCE WITH THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES 1973 REVISED EDITION.
 - DESIGNED TRAFFIC SPEED IN ACCORDANCE WITH THE AMERICAN ASSOC. OF STATE HIGHWAY OFFICIAL STANDARDS:
ALL 50' R/W'S 25 M.P.H.
 - ALL ELEVATIONS SHOWN ARE BASED ON U.S.C. AND G.S. MEAN SEA LEVEL DATUM 1929.



- BENCHMARKS:**
- ① BM-1: TOP RIM SANITARY MANHOLE - 320.73
 - ② □ CUT ON TOP CURB IN ISLAND IN BLUE SEA DRIVE CUL-DE-SAC - 302.67

APPROVED HOWARD COUNTY DEPT. OF PUBLIC WORKS	
<i>William S. Reay</i>	4-11-80
CHIEF, BUREAU OF ENGINEERING	DATE
DEPARTMENT OF PLANNING AND ZONING	
<i>John W. Danahy</i>	4/10
CHIEF, DIVISION OF LAND DEVELOPMENT	DATE
Date	No
Revision Description	
VILLAGE OF KING'S CONTRIVANCE	
SECTION 2, AREA 3, PHASE I	
6TH ELECTION DISTRICT OF HOWARD COUNTY, MARYLAND	
OWNER AND DEVELOPER	
95-32 & POCASSET INC.	
THE ROUSE COMPANY BLDG.	
COLUMBIA, MARYLAND	
CENTURY ENGINEERING, INC.	
CONSULTING ENGINEERS - PLANNERS	
TOWSON, MARYLAND 21204	
AREA	TAX MAP 41 AND 42
	PARCELS 12, 54 PART OF 5, 550, 17
TITLE	TITLE SHEET
Des By T.P.	Scale AS SHOWN
Drn By R.J.	Date 9-15-79
Proj No	Drawing No.
1	1 OF 8
Chk By	Approved

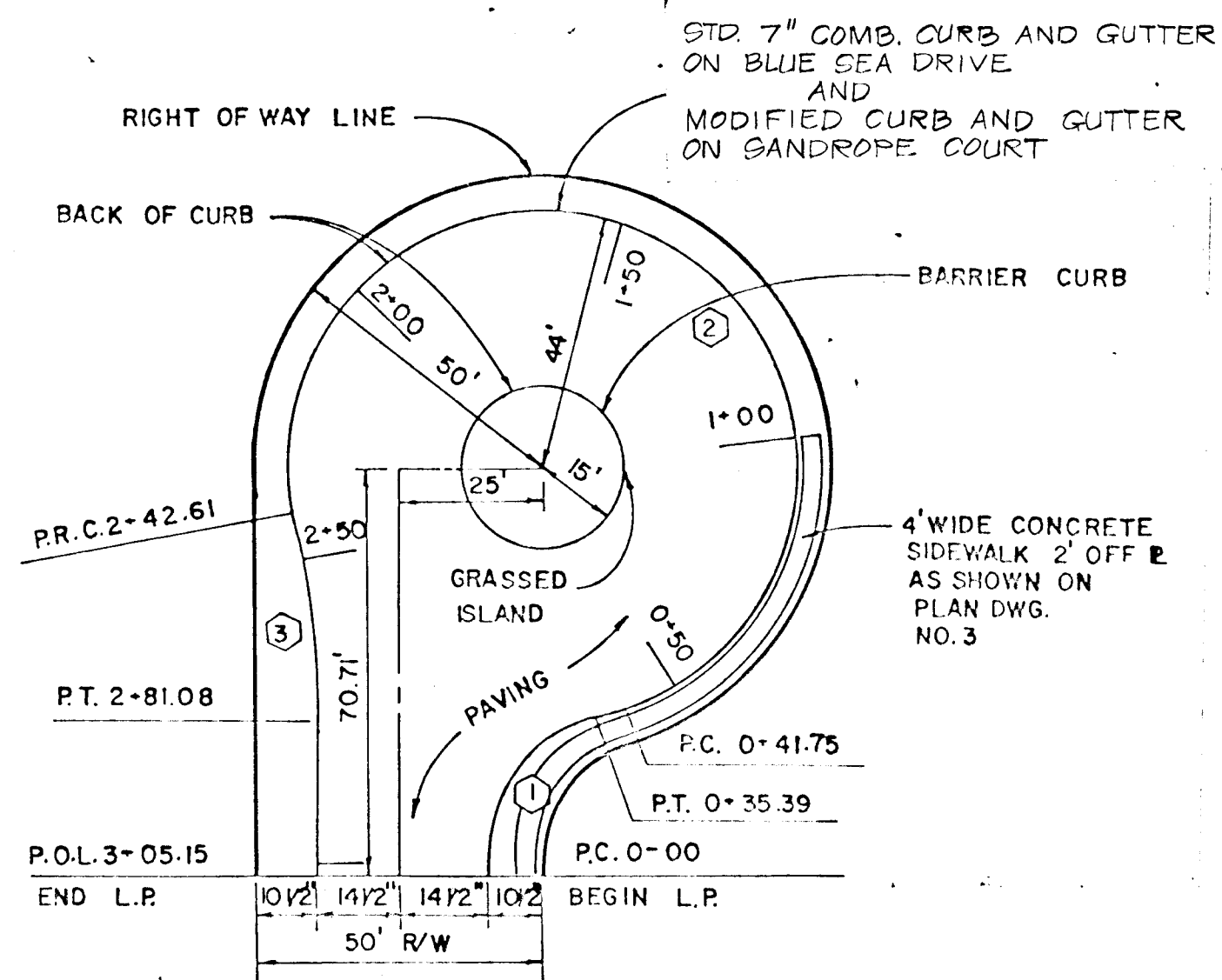
3-24-80
Date

John W. Danahy
Professional Engr. No. 10551

AS-BUILT FEB. 1, 1983

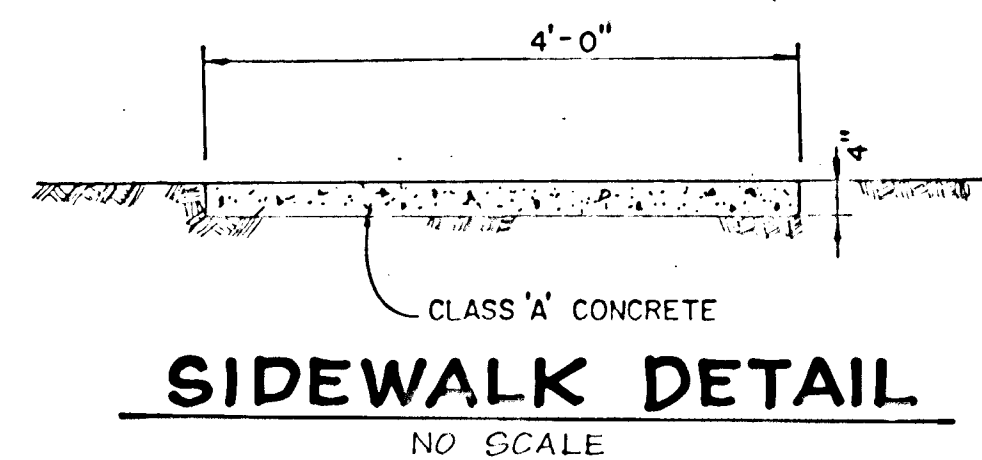
BRUNING 44-132 28586

7-80-71

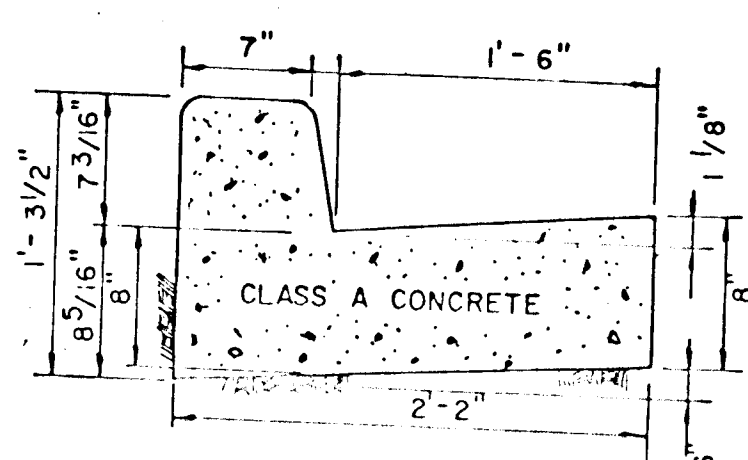


CURB CURVE DATA				
CURVE	RADIUS	LENGTH	Δ	TANGENT
1	28.75'	35.39'	70°31'44"	20.33'
2	44.00'	200.86'	261°32'59"	-
3	200.00'	38.47'	11°01'15"	19.29'

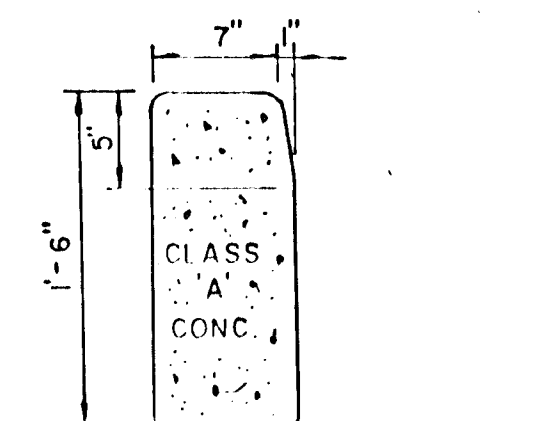
**SANDROPE COURT & BLUE SEA DRIVE
CUL-DE-SAC FOR A 50' R/W**
SCALE: 1"=30'



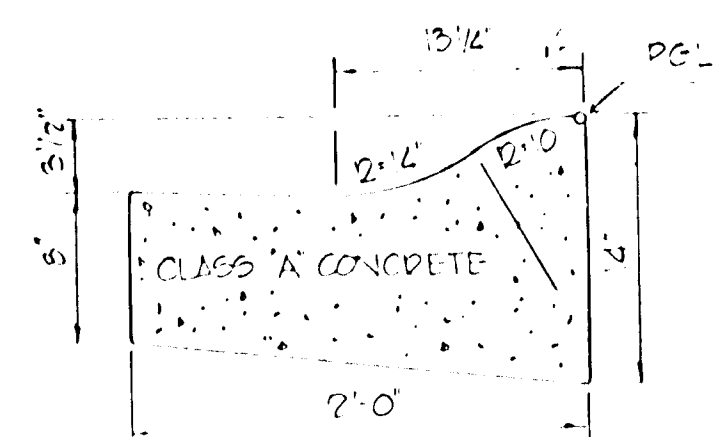
SIDEWALK DETAIL
NO SCALE



HOWARD CO. STANDARD (D-40, Pg. 95)
STD. 7" COMB. CURB & GUTTER
NO SCALE

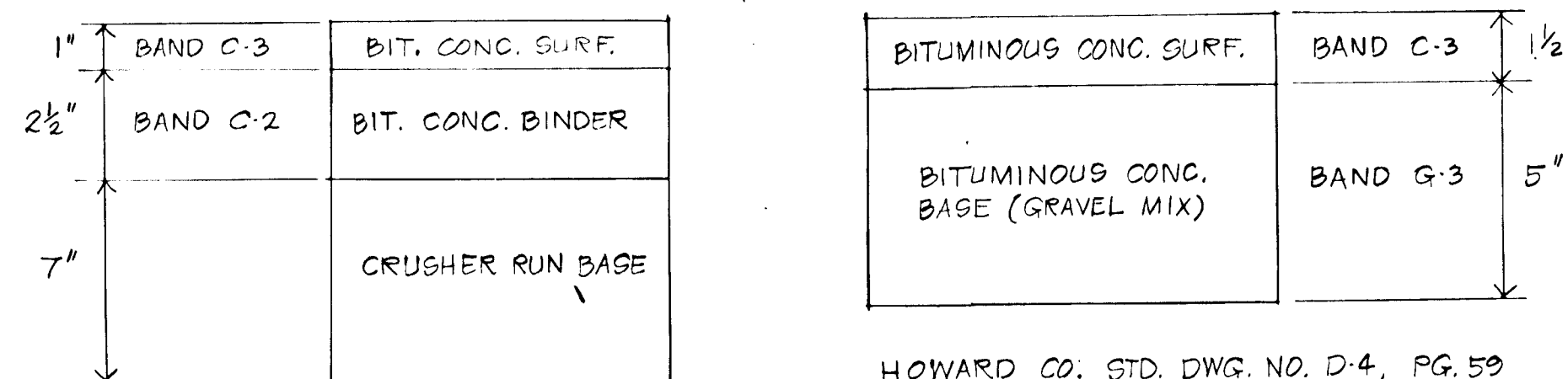


HOWARD CO. STANDARD (D-40, Pg. 95)
STD. BARRIER DETAIL
NO SCALE



(HOWARD COUNTY STANDARD DRAWING D-40, Pg. 95)
MODIFIED COMB. CURB AND GUTTER
NO SCALE

NOTE: ONLY ONE PAVING SECTION SHALL BE USED THROUGHOUT THE LIMITS OF THESE PLANS



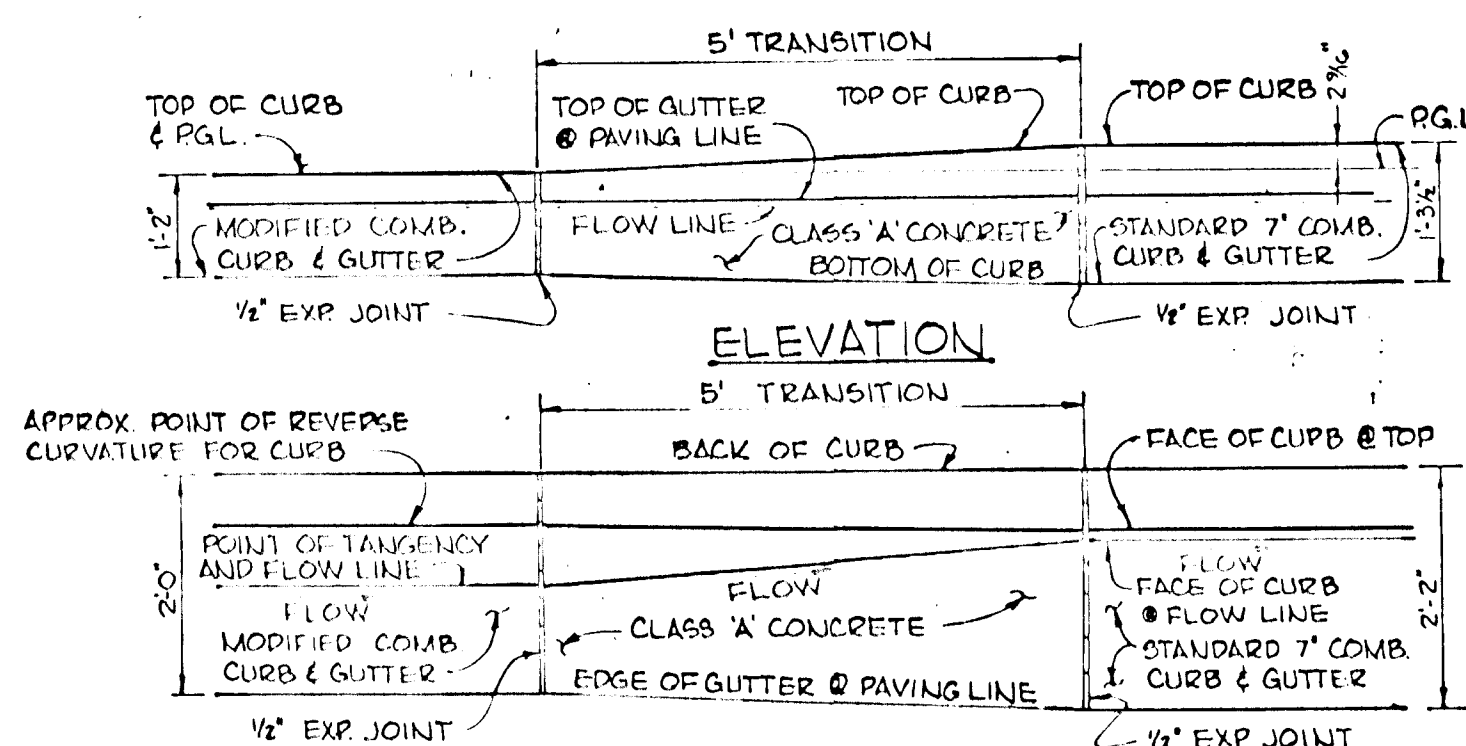
HOWARD CO. STD. DWG. NO. D-5, PG. 60
CLEARING & GRADING: ARTICLE C-1
SUBGRADE: ARTICLE C-2
BASE COURSE: ARTICLE C-25
BINDER COURSE: ARTICLE C-31 OR C-33
SURFACE COURSE: ARTICLE C-31

HOWARD CO. STD. DWG. NO. D-4, PG. 59
CLEARING & GRADING: ARTICLE C-1
SUBGRADE: ARTICLE C-2
BASE COURSE: ARTICLE C-33
SURFACE COURSE: ARTICLE C-31

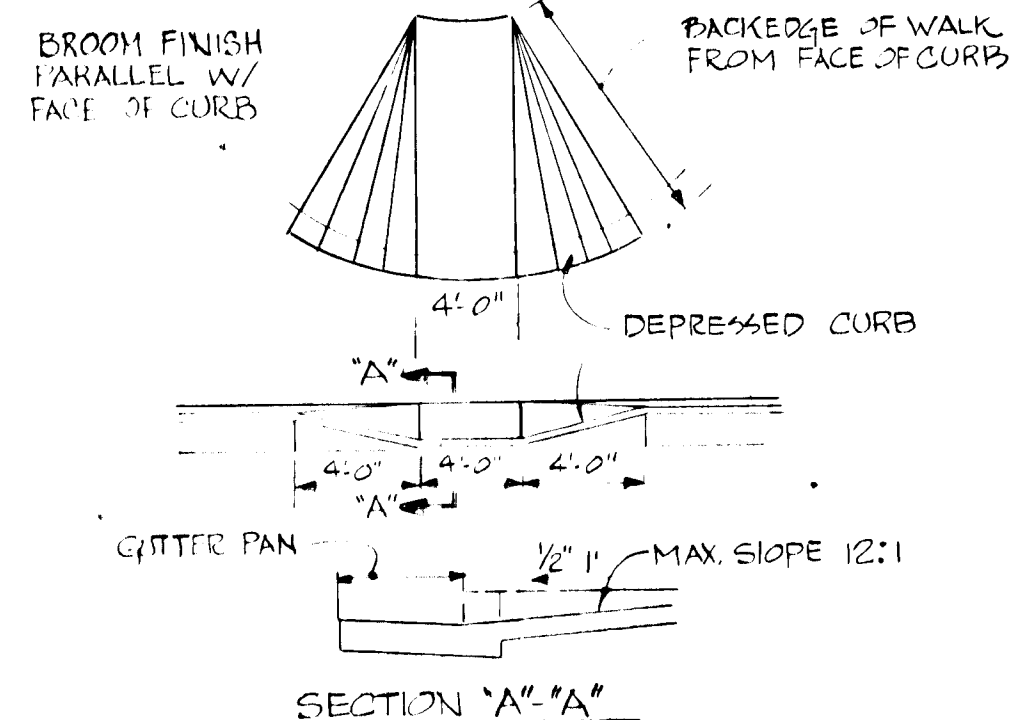
10 1/2" PAVEMENT OR 6 1/2" PAVEMENT

- NOTE:
- A TACK COAT IS REQUIRED IN ACCORDANCE WITH SECTION C-31-4 OF THE HOWARD CO. ROAD CONST. CODE AND SPECIFICATIONS.
 - BASE WILL BE PRIMED IN ACCORDANCE WITH SECTION C-30-3 OF THE HOWARD COUNTY ROAD CONST. CODE AND SPECS.
 - TO BE CONSTRUCTED IN ACCORDANCE WITH THE HOWARD CO. ROAD CONST. CODE AND SPECIFICATIONS.

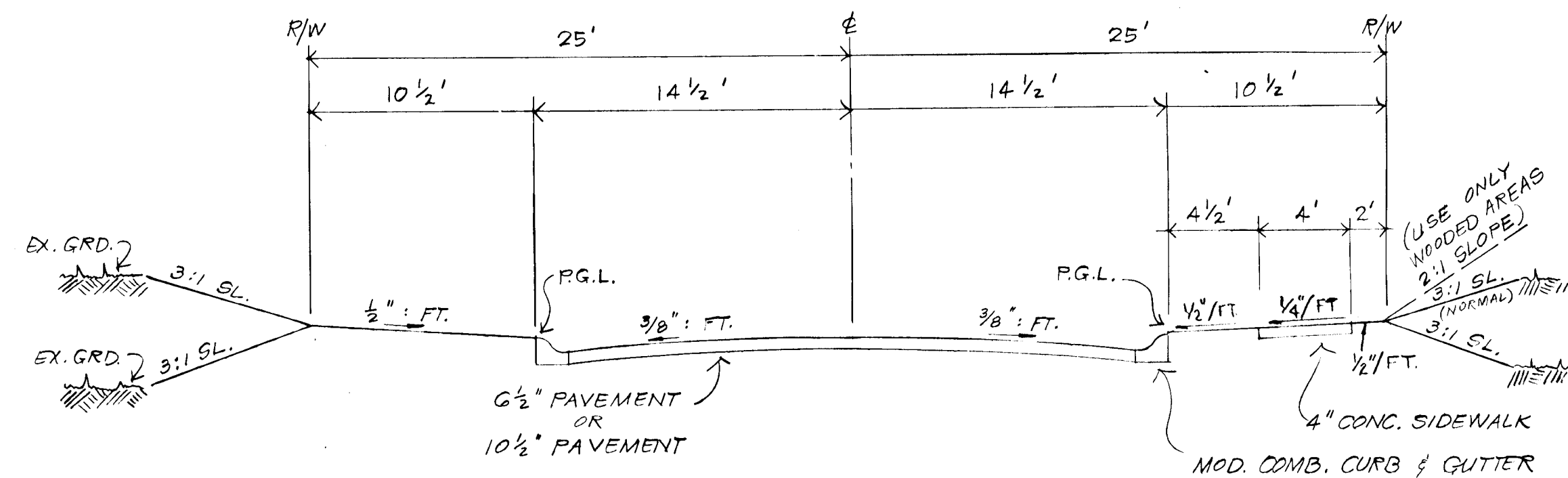
TYPICAL PAVING SECTION
NO SCALE



PLAN CURB TRANSITION DETAIL
NO SCALE

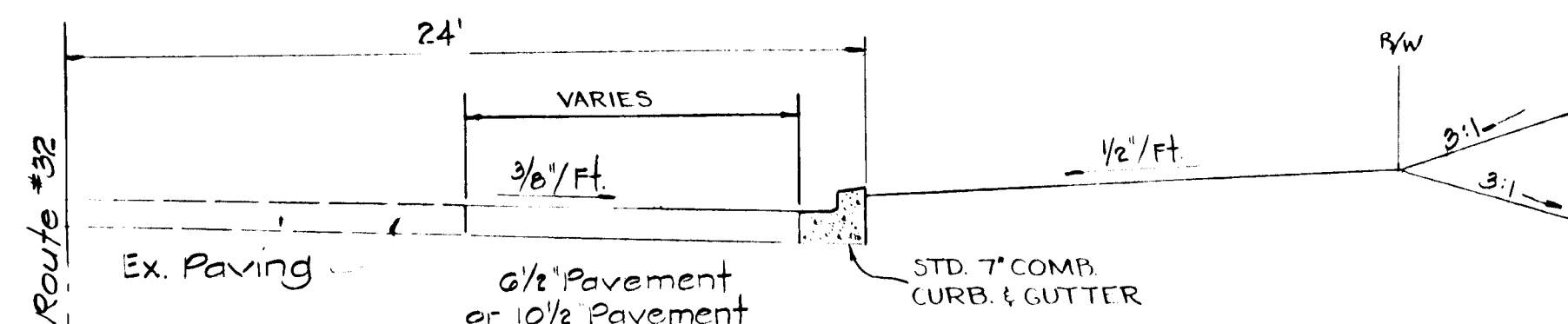


SIDEWALK RAMP DETAILS
NO SCALE



DESIGN SPEED: 25 M.P.H.
TYPE TRAFFIC WAY: LOCAL, RESIDENTIAL ZONING: NEWTOWN
BLUE SEA DRIVE: STA 1+82-12+74
SANDROPE COURT: STA 0+00-4+55

**50' R/W
TYPICAL SECTION**
NO SCALE



**TYPICAL SECTION
FOR IMPROVEMENTS IN
MD. ROUTE #32
STA 41+12.24 TO STA 44+05±**

AS-BUILT SURVEY DATA BY
WALTER PARK, MD L.S. 5539
SIGNED, SEALED DATED 9/23/82.

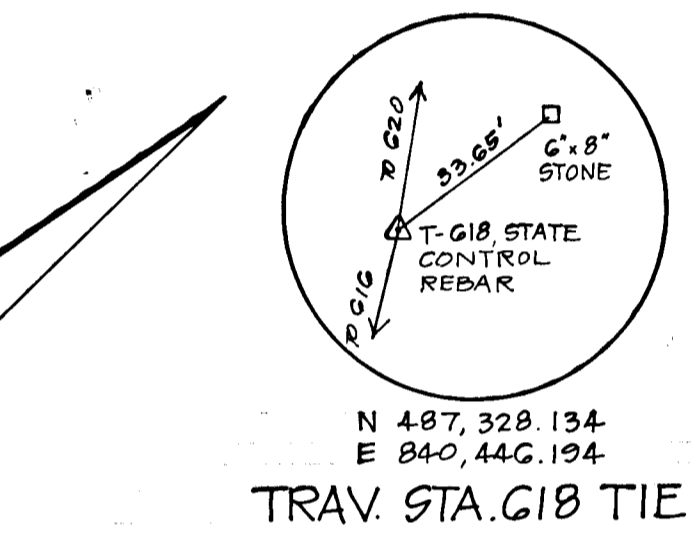
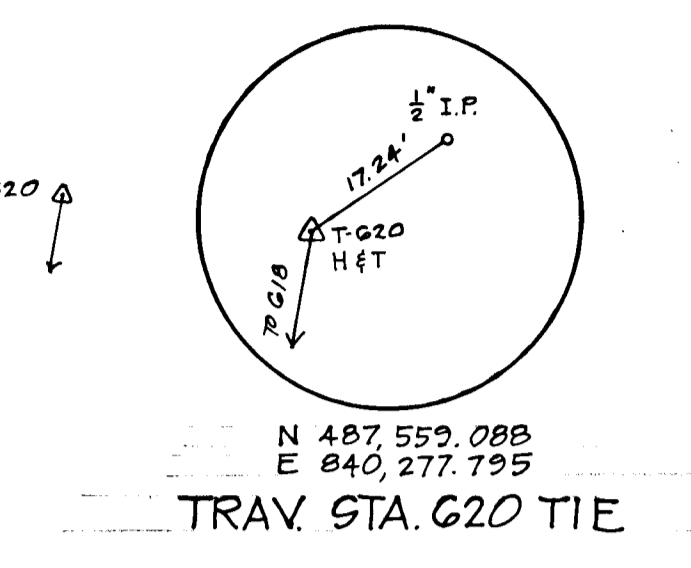
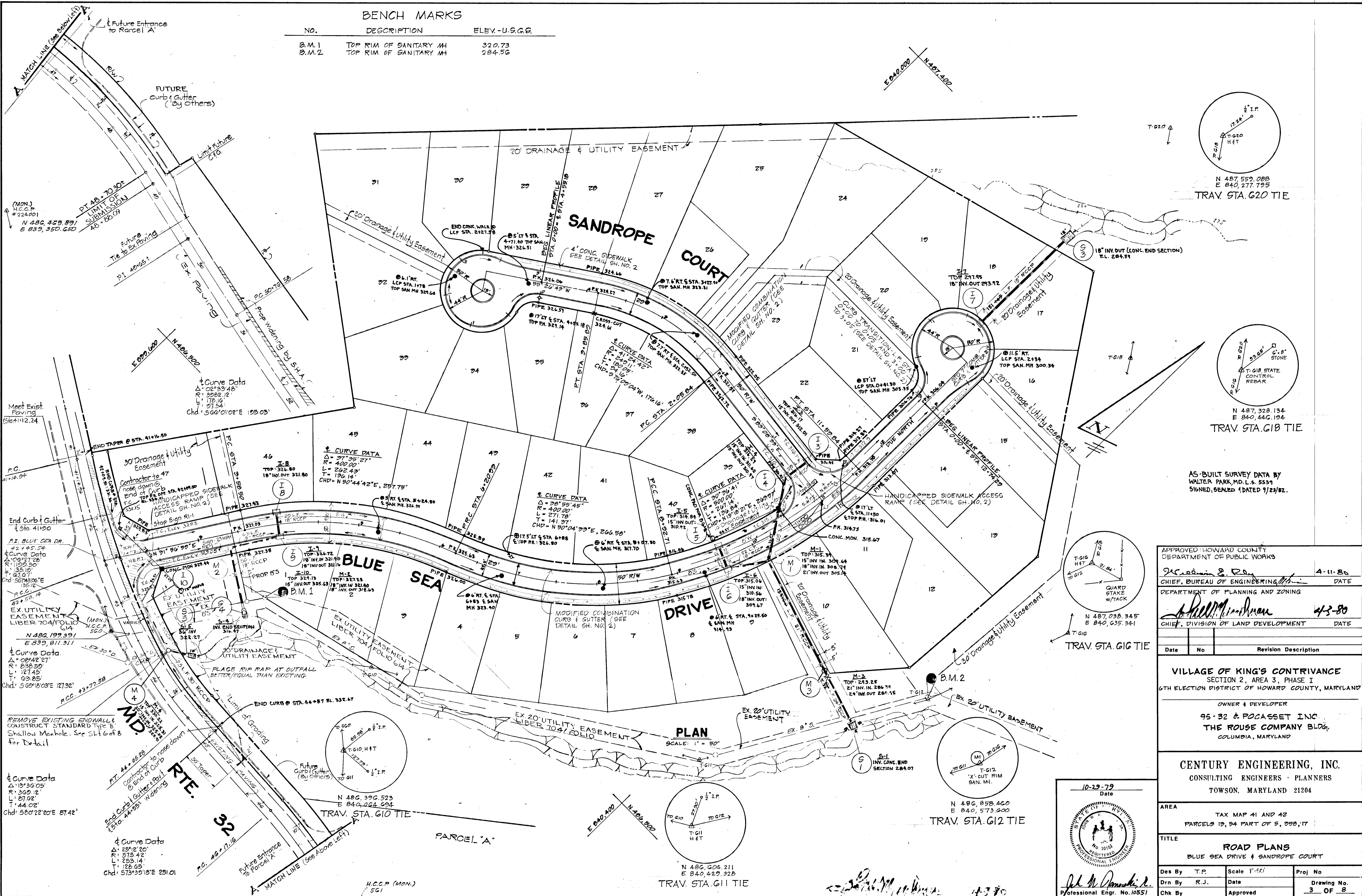
APPROVED HOWARD COUNTY DEPT. OF PUBLIC WORKS			
<i>William S. R...</i>		4-11-80	
CHIEF, BUREAU OF ENGINEERING		DATE	
DEPARTMENT OF PLANNING AND ZONING			
<i>John L. ...</i>		11-30	
CHIEF, DIVISION OF LAND DEVELOPMENT		DATE	
Date	No	Revision Description	
VILLAGE OF KING'S CONTRIVANCE SECTION 2, AREA 3, PHASE I 6TH ELECTION DISTRICT OF HOWARD COUNTY, MARYLAND			
OWNER AND DEVELOPER 95-32 & POCASSET INC. THE ROUSE COMPANY BLDG. COLUMBIA, MARYLAND			
CENTURY ENGINEERING, INC. CONSULTING ENGINEERS - PLANNERS TOWSON, MARYLAND 21204			
AREA	TAX MAP 41 AND 42 PARCELS 19, 54 PART OF 5, 35B, 17		
TITLE DETAIL SHEET			
Des By	J.L.	Scale	AS SHOWN
Proj No		Date	3-15-79
Dim By	R.J.	Approved	<i>John L. ...</i>
Chk By			
Drawing No. 2 OF 8			

AS BUILT FEB. 1, 1983

7-80-71

BENCH MARKS

NO.	DESCRIPTION	ELEV.-U.S.G.C.
B.M. 1	TOP RIM OF SANITARY MH	320.73
B.M. 2	TOP RIM OF SANITARY MH	284.56



AS-BUILT SURVEY DATA BY
WALTER PARK, MD. L.S. 5531
SIGNED, SEALED (DATED 9/23/82)

APPROVED: HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS		
<i>William S. Ray</i>	4-11-80	DATE
CHIEF, BUREAU OF ENGINEERING		
DEPARTMENT OF PLANNING AND ZONING		
<i>William M. ...</i>	4-3-80	DATE
CHIEF, DIVISION OF LAND DEVELOPMENT		
Date	No.	Revision Description

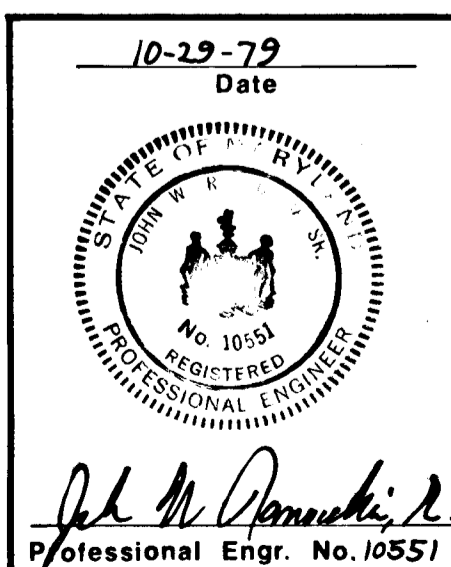
VILLAGE OF KING'S CONTRIVANCE
SECTION 2, AREA 3, PHASE I
6TH ELECTION DISTRICT OF HOWARD COUNTY, MARYLAND
OWNER & DEVELOPER
95-32 & POCCASSET INC.
THE ROUSE COMPANY BLDG.
COLUMBIA, MARYLAND

CENTURY ENGINEERING, INC.
CONSULTING ENGINEERS - PLANNERS
TOWSON, MARYLAND 21204

AREA
TAX MAP 41 AND 42
PARCELS 19, 24 PART OF 5, 288, 17

TITLE
ROAD PLANS
BLUE SEA DRIVE & SANDROPE COURT

Des By	T.F.R.	Scale	1"=50'	Proj No
Drn By	R.J.	Date		Drawing No.
Chk By	Approved			3 OF 8

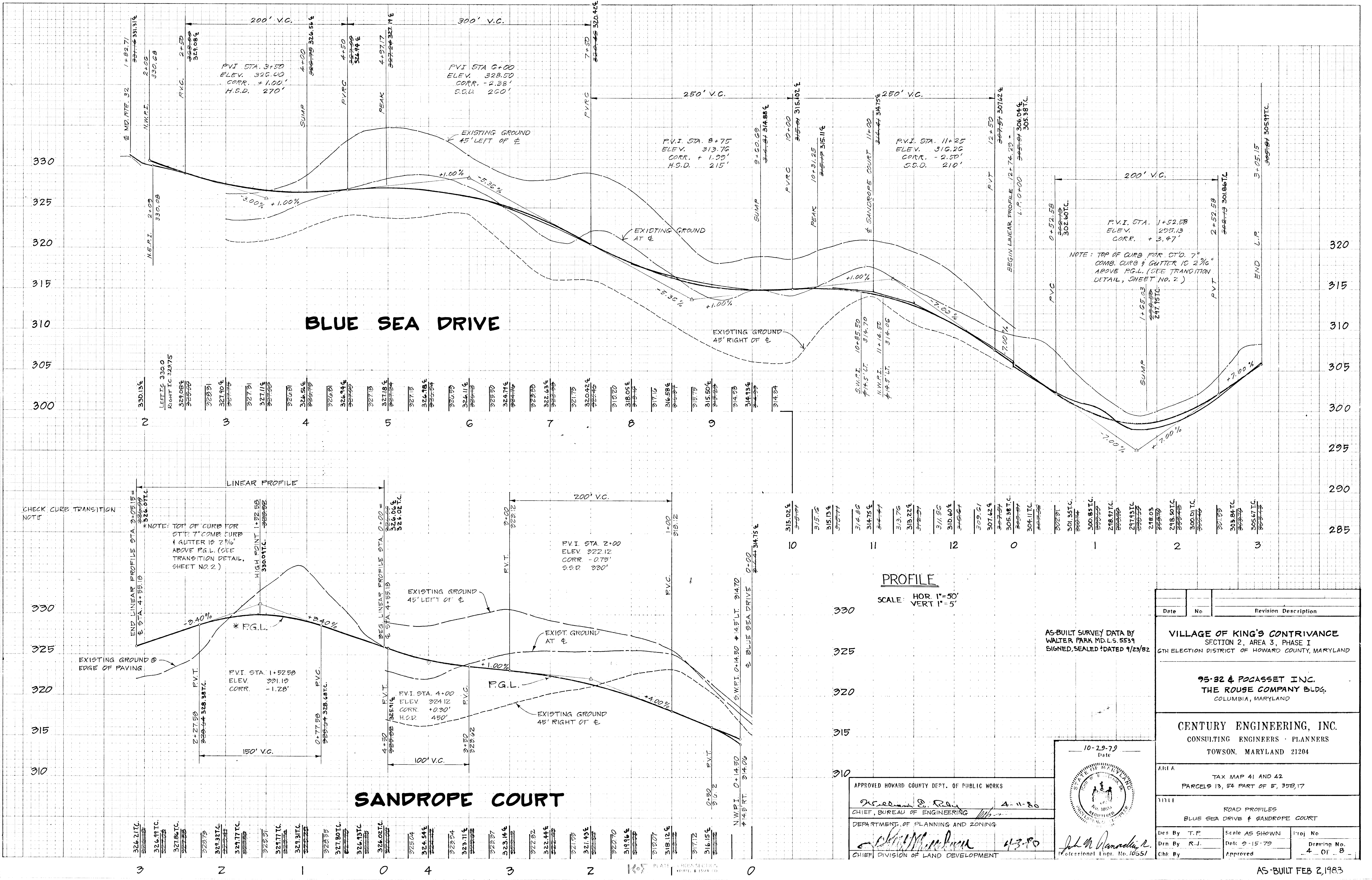


AS-BUILT FEB 2, 1983

F-80-77

DATE: _____
 BY: _____
 SURVEYED: _____
 PLANNED: _____
 DRAWN: _____
 CHECKED: _____
 APPROVED: _____
 AREAS: _____
 UNDESIGNED: _____

DATE: _____
 BY: _____
 SURVEYED: _____
 PLANNED: _____
 DRAWN: _____
 CHECKED: _____
 APPROVED: _____
 AREAS: _____
 UNDESIGNED: _____



PROFILE

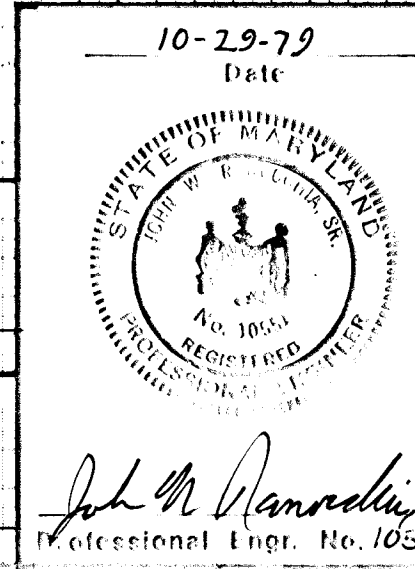
SCALE: HOR 1"=50'
 VERT 1"=5'

APPROVED HOWARD COUNTY DEPT. OF PUBLIC WORKS

Richard E. R... 4-11-80
 CHIEF, BUREAU OF ENGINEERING

John M. ... 4-3-80
 CHIEF, DIVISION OF LAND DEVELOPMENT

DEPARTMENT OF PLANNING AND ZONING



AS-BUILT SURVEY DATA BY
 WALTER PARK MD.L.S. 5531
 SIGNED, SEALED & DATED 9/23/82

Date	No	Revision Description
VILLAGE OF KING'S CONTRIVANCE SECTION 2, AREA 3, PHASE I 6TH ELECTION DISTRICT OF HOWARD COUNTY, MARYLAND		
95-82 & POCASSET INC. THE ROUSE COMPANY BLDG. COLUMBIA, MARYLAND		
CENTURY ENGINEERING, INC. CONSULTING ENGINEERS - PLANNERS TOWSON, MARYLAND 21204		
AREA	TAX MAP 41 AND 42 PARCELS 13, 54 PART OF F, 35B, 17	
TITLE	ROAD PROFILES BLUE SEA DRIVE & SANDROPE COURT	
Des By	T.P.	Scale AS SHOWN
Drn By	R.J.	Proj No
Chk By	Approved	4-15-79
		Drawing No.
		4-01-B

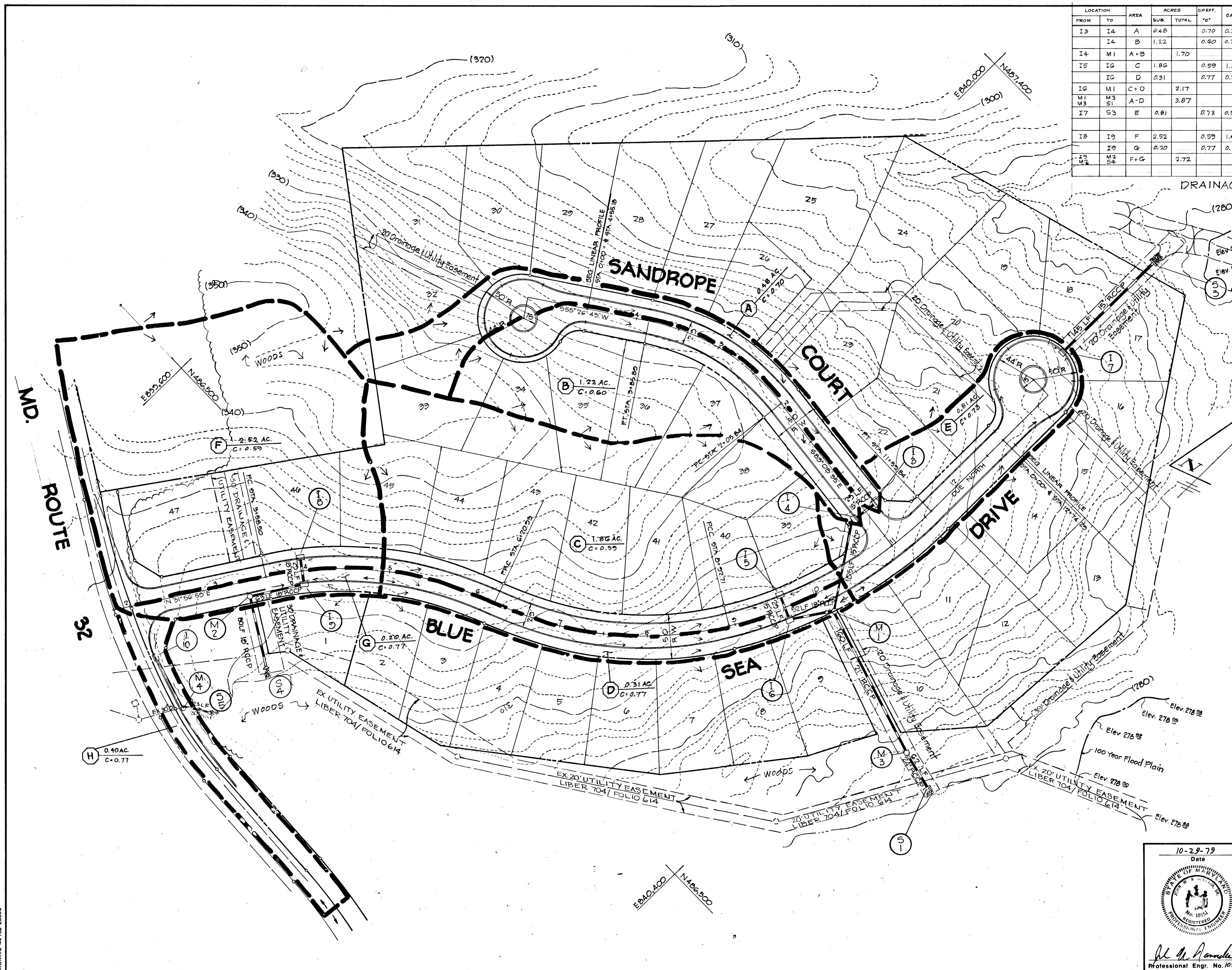
AS-BUILT FEB 2, 1983

F-80-71

6+80 = 28.3
 150 x 2.30 = 6.57 = 348.67 + 2.2 = 350.87

FROM	TO	AREA	ACRES		COEFF.	CA	Σ CA	TIME CONC. - MIN.			INTEN.	Q - C.F.A.	PIPE N = .013			
			SUB.	TOTAL				INLET	DRAIN	TOTAL			" I "	C.F.S.	SIZE	SLOPE
I3	I4	A	0.48		0.70	0.34		10.0			6.00	2.07	15"	0.12	1.6	29'
I4	I4	B	1.22		0.60	0.73		9.9			6.10	4.47				
I4	M1	A+B		1.70			1.07	10.0	0.3	10.3	6.00	6.42	15"	1.1	5.2	105'
I5	IG	C	1.86		0.59	1.10		8.7			6.30	6.23	15"	1.2	5.6	29'
IG	IG	D	0.31		0.77	0.24		7.5			6.50	1.56				
IG	M1	C+D		2.17			1.34	8.7	0.1	8.8	6.30	8.44	18"	0.6	4.7	52'
M1	M3	A-D		3.87			2.41	10.3	0.3	10.6	6.30	14.46	21"	0.8	6.0	150'
I7	S3	E	0.81		0.73	0.59		7.6			6.50	3.84	15"	0.4	3.1	145'
I8	I9	F	2.52		0.59	1.49		7.5			6.50	9.68	18"	0.9	5.5	29'
I9	I9	G	0.20		0.77	0.15		6.9			6.60	1.00				
I9	M2	F+G		2.72			1.64	7.5	0.1	7.6	6.50	10.66	18"	1.0	6.0	63'
M2	M2	S4									6.50	18.26	24"	2.2	3.5	79'

DRAINAGE COMPUTATIONS



AS-BUILT SURVEY DATA BY
WALTER PARK, MD. L.S. 5531
SIGNED, SEALED & DATED 7/23/82.

APPROVED HOWARD COUNTY DEPT. OF PUBLIC WORKS

William E. P... 4-11-80
CHIEF, BUREAU OF ENGINEERING DATE

OFFICE OF PLANNING AND ZONING

William E. P... 4/3-80
CHIEF, DIVISION OF LAND DEVELOPMENT DATE

Date	No	Revision Description

VILLAGE OF KING'S CONTRIVANCE
SECTION 2, AREA 3, PHASE I
6th Election District of Howard County, Maryland

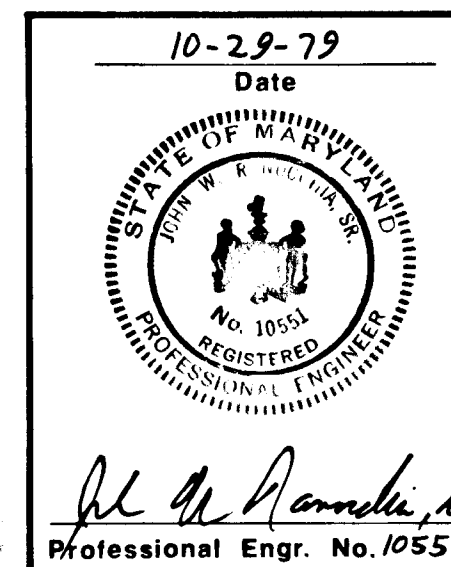
OWNER AND DEVELOPER
95-32 & ROCASSET INC.
THE ROUSE COMPANY BLDG.
Columbia, Maryland

CENTURY ENGINEERING, INC.
CONSULTING ENGINEERS - PLANNERS
TOWSON, MARYLAND 21204

AREA TAX MAP 41 AND 42
PARCELS 13, 54 PART OF 5, 358, 17

TITLE DRAINAGE AREA MAP

Des By R.A.M.	Scale 1" = 50'	Proj No 0579
Drn By T.D.	Date	Drawing No.
Chk By R.A.M.	Approved	5 OF 8

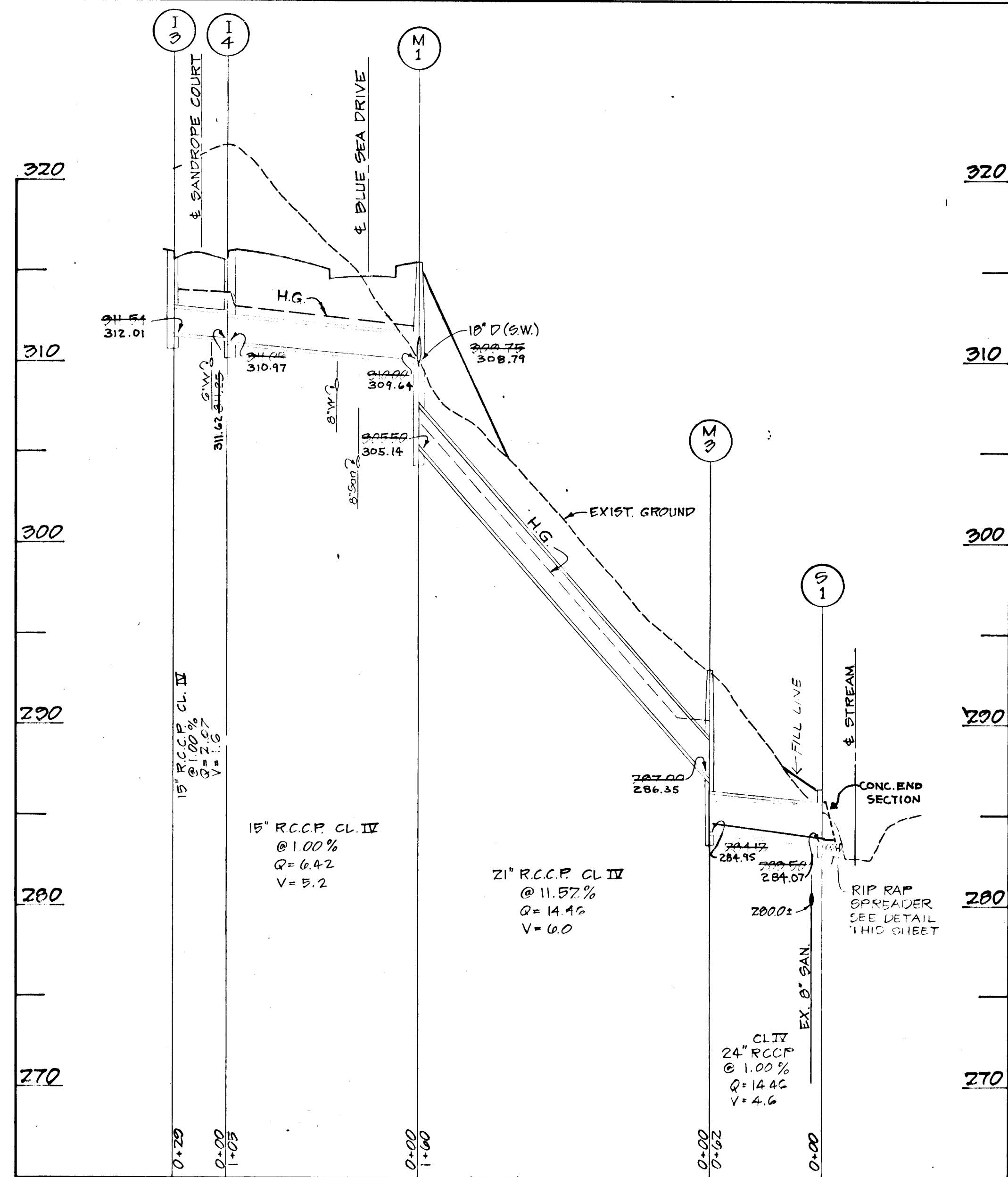


AS-BUILT FEB. 3, 1983

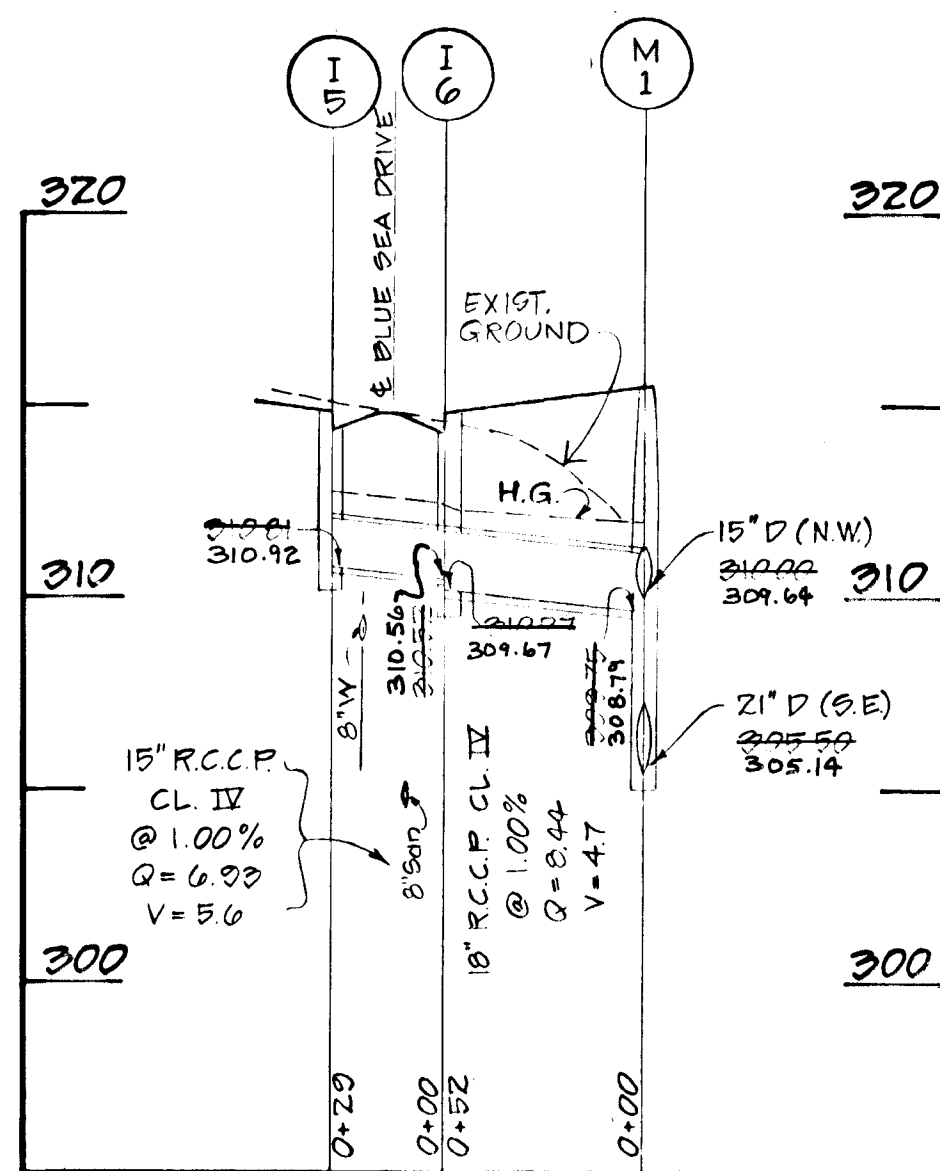
F-80-71

11/5

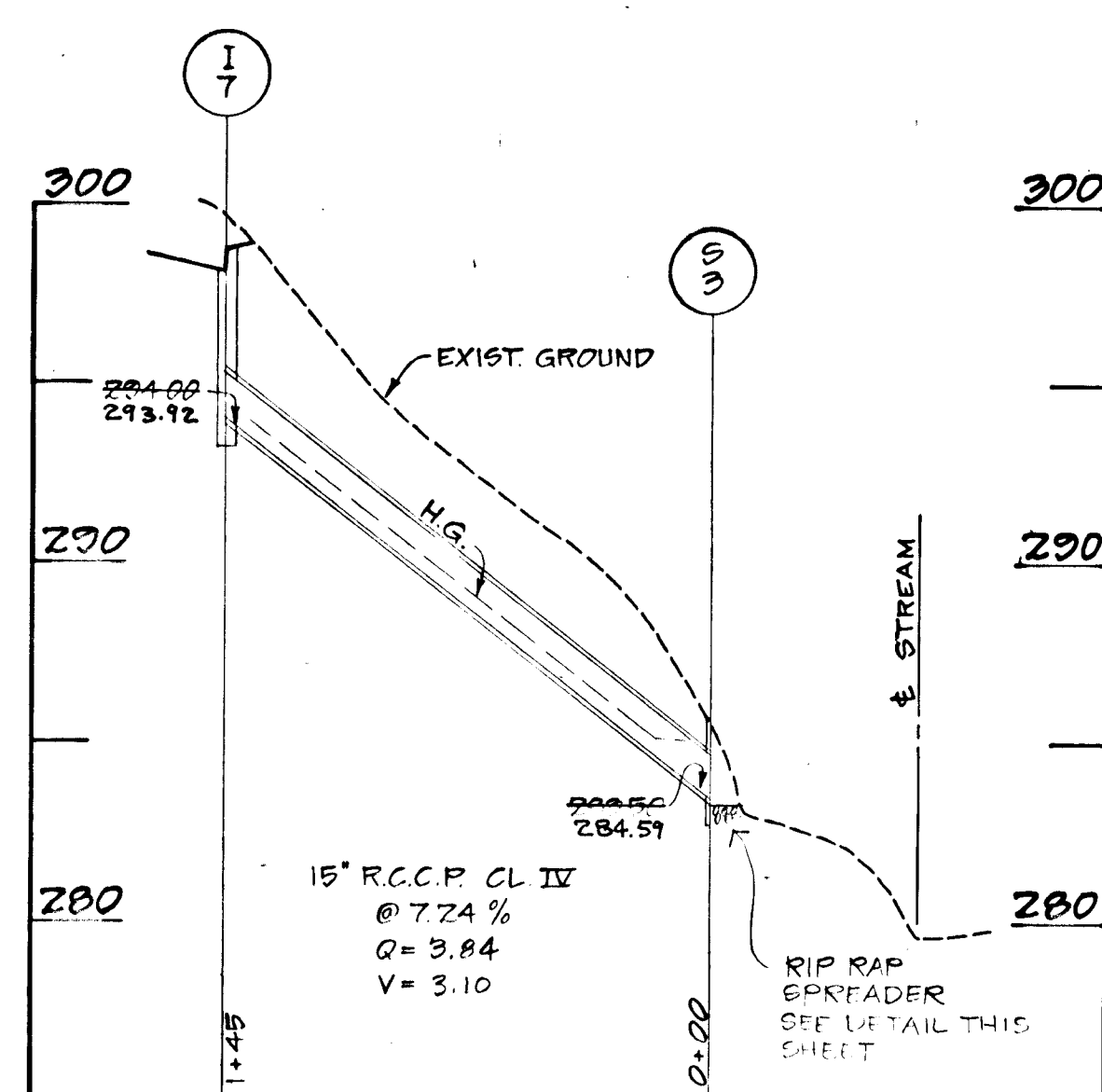
BRUNING 44-132 28586



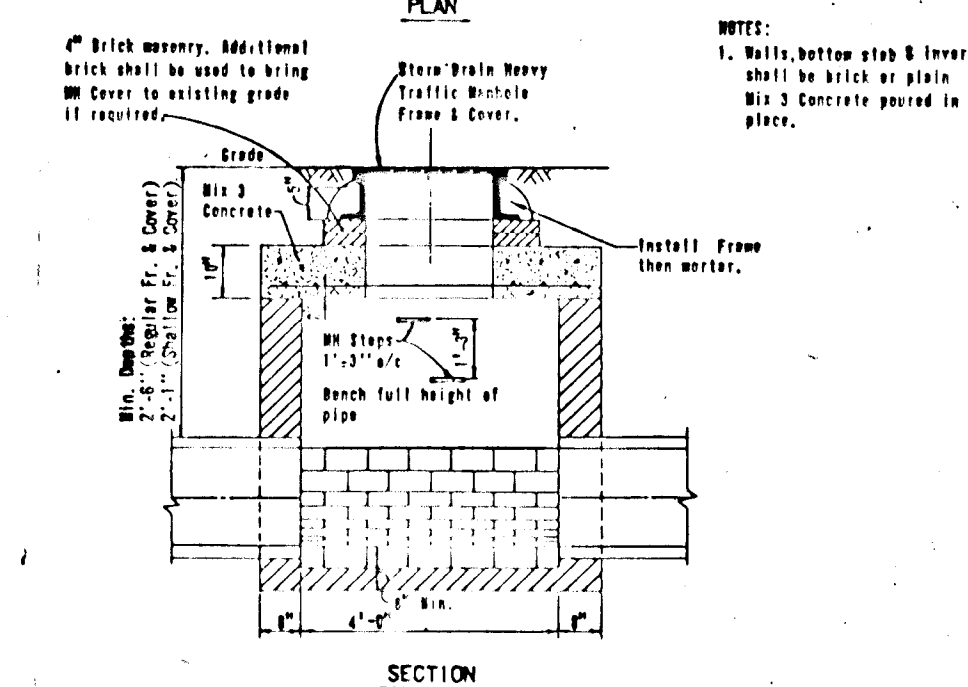
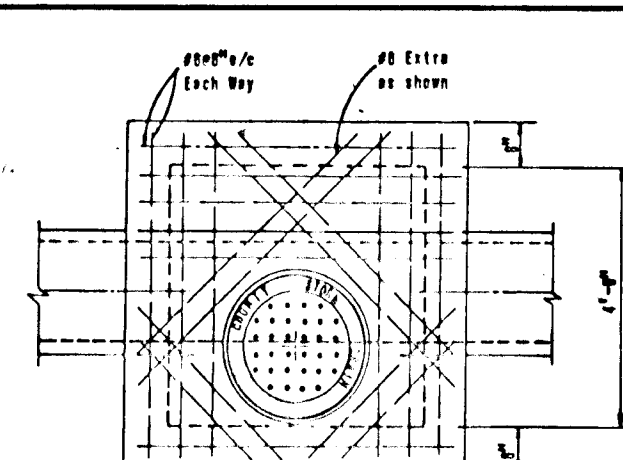
PROFILE
SCALE: HOR 1" = 50'
VERT 1" = 5'



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



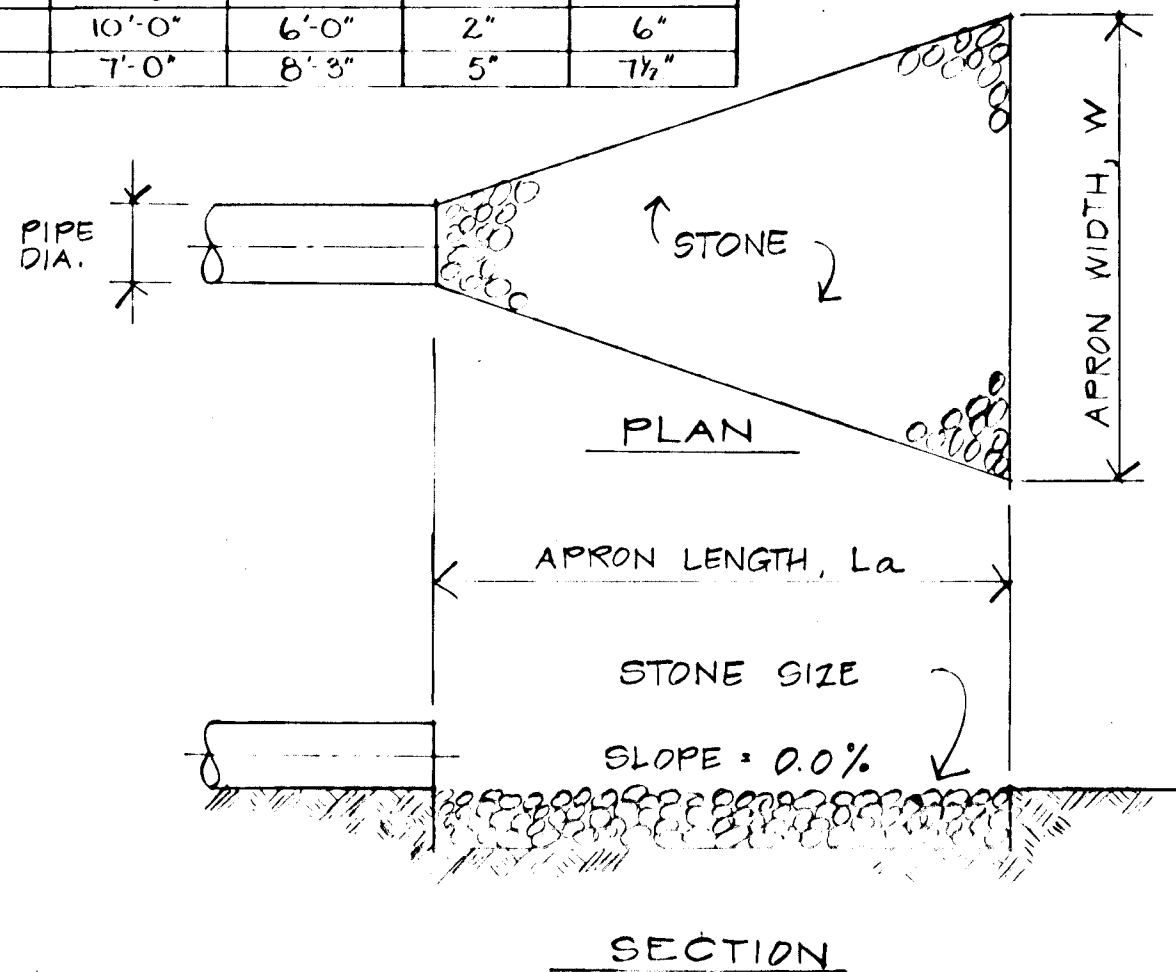
PROFILE
SCALE: HOR 1" = 50'
VERT 1" = 5'



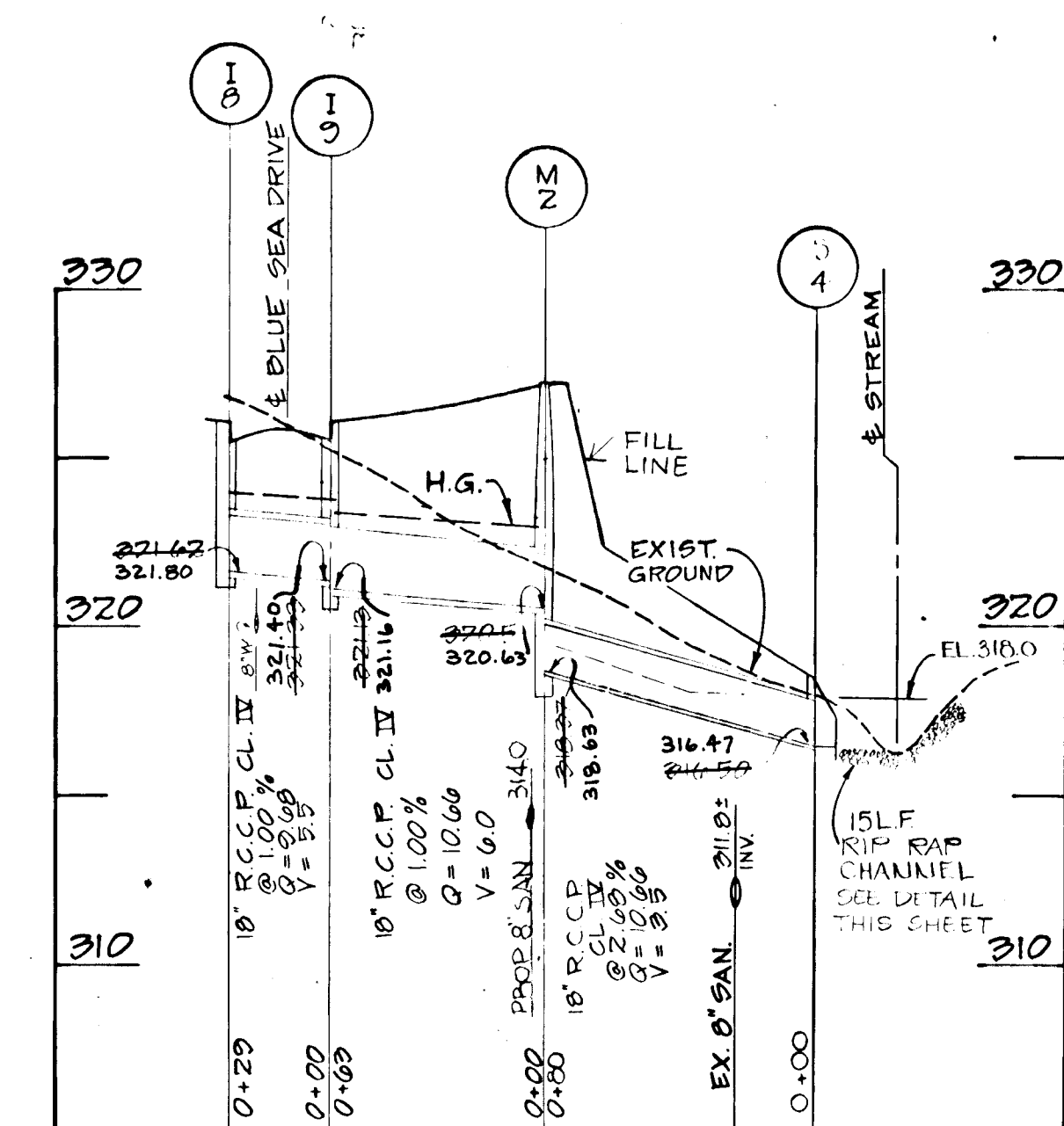
TYPE B SHALLOW MANHOLE

RIP RAP APRON SCHEDULE

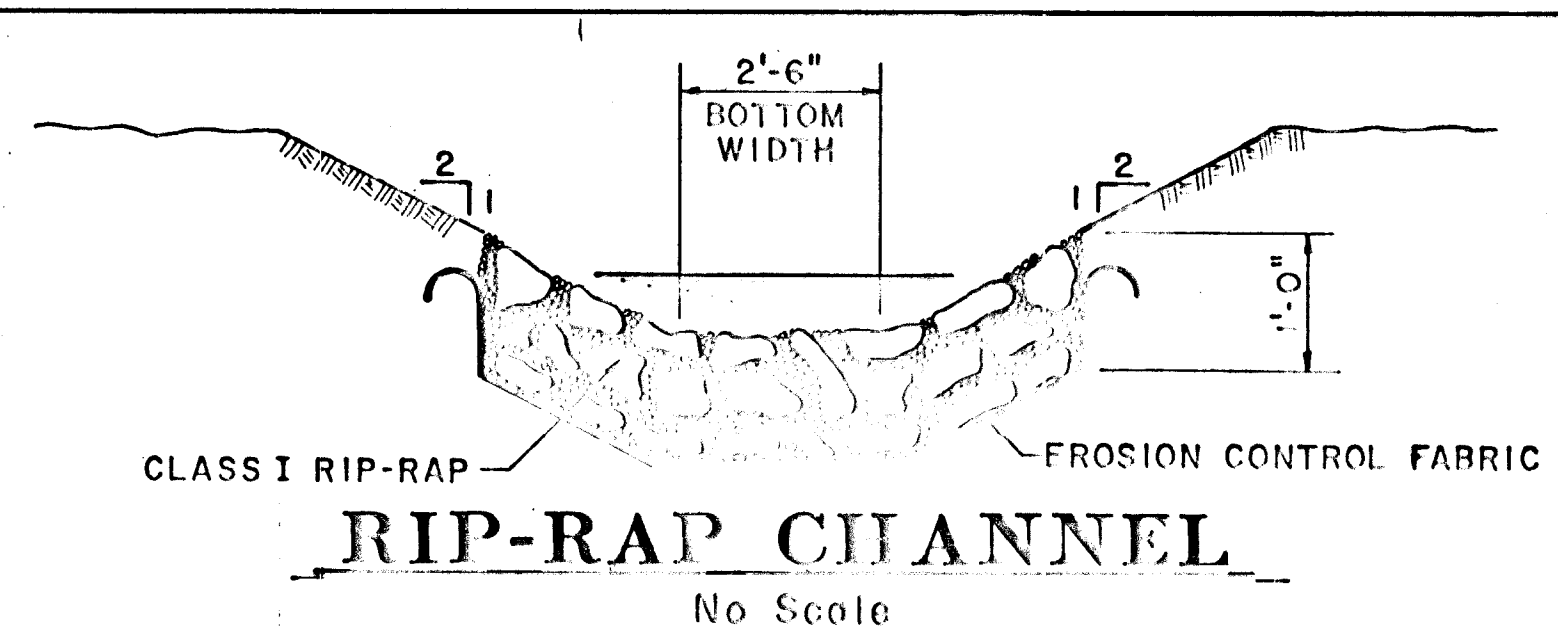
OUTFALL LOCATION	APRON L _a	APRON W	STONE SIZE	STONE THK.
S-1	10'-0"	6'-0"	2"	6"
S-3	7'-0"	8'-3"	5"	7 1/2"



STORM DRAIN OUTLET PROTECTION DETAIL
NO SCALE



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

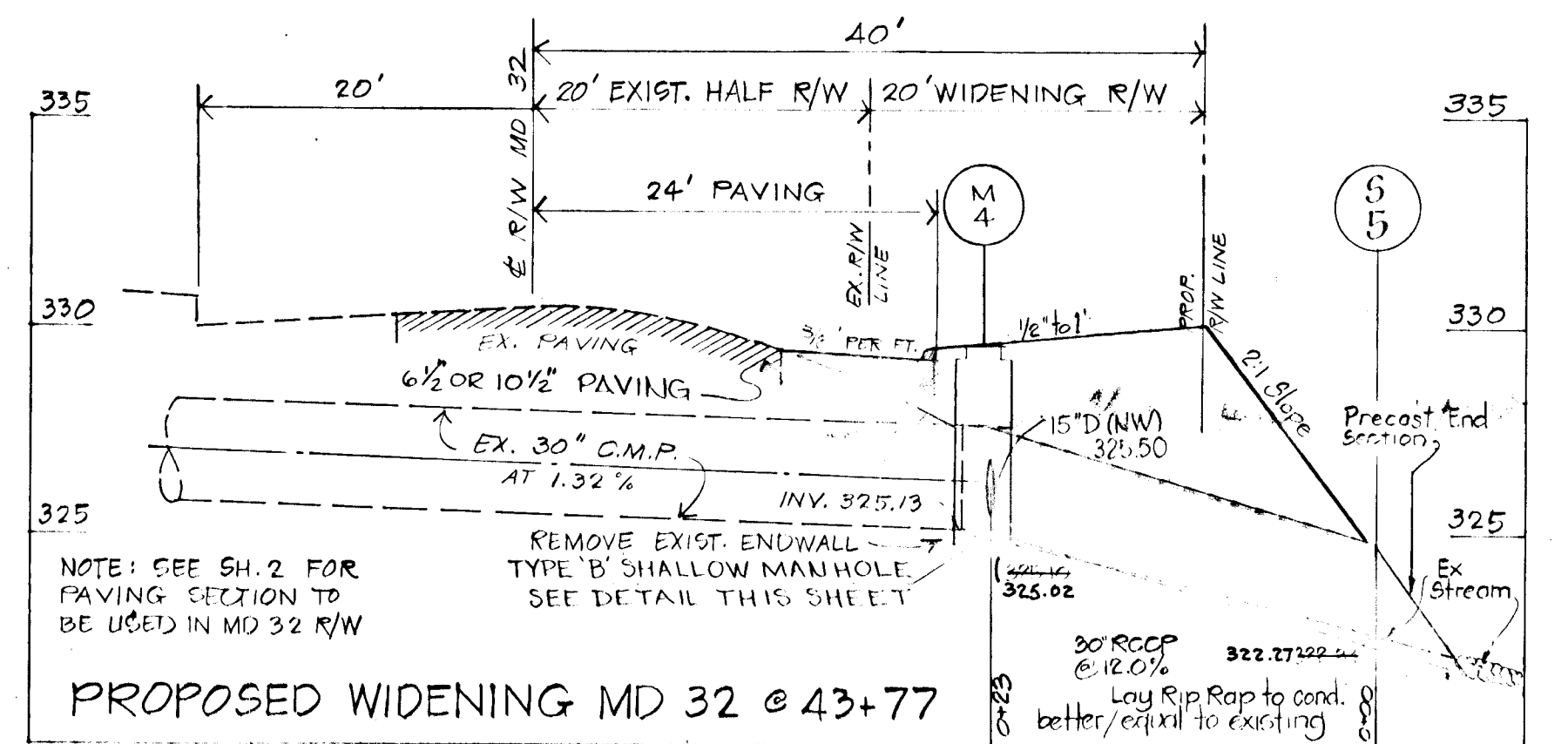


RIP-RAP CHANNEL
No Scale

STRUCTURE SCHEDULE SEE PLAN & PROFILE FOR ELEVATIONS

NO.	TYPE	LOCATION		ELEVATION		REMARKS
		ROAD STA.	OFFSET	TOP	INV.	
S1	PRECAST END SEC.	BLUE SEA	10+05.71	74' RT	322.22	MD STATE # 368.02
M3	MANHOLE	BLUE SEA	10+05.71	185' RT	322.22	HO. CO. STD. D-103
M1	MANHOLE	BLUE SEA	10+05.71	75' RT	322.22	HO. CO. STD. D-103
14	A-10 INLET (2.5' WIDE)	SANDROPE	0+50	15' LT	321.12	HO. CO. STD. 64A
13	A-10 INLET (2.5' WIDE)	SANDROPE	0+50	15' RT	321.12	HO. CO. STD. 64A
16	A-5 INLET (2.5' WIDE)	BLUE SEA	9+60.63	15' LT	321.64	HO. CO. STD. 64A
15	A-5 INLET (2.5' WIDE)	BLUE SEA	9+60.63	15' RT	321.64	HO. CO. STD. 64A
S4	PRECAST END SEC.	BLUE SEA	9+23.50	97' RT	322.22	MD STATE # 368.02
M2	MANHOLE	BLUE SEA	9+23.50	17' RT	322.22	HO. CO. STD. D-103
18	A-5 INLET (2.5' WIDE)	BLUE SEA	4+00	15' RT	321.12	HO. CO. STD. 64A
17	A-5 INLET (2.5' WIDE)	BLUE SEA	4+00	15' LT	321.12	HO. CO. STD. 64A
S3	PRECAST END SEC.	BLUE SEA	1+68.03	145' LT	322.22	MD STATE # 368.02
10	A-5 INLET	BLUE SEA	1+68.03	-	322.22	HO. CO. STD. 64A
S5	PRECAST END SECTION	MD 32	43+34	47' LT	322.22	MD STATE # 368.02
M4	A-5 INLET	MD 32	43+14	24' LT	322.22	HO. CO. STD. 64A
M4	TYPE B SHALLOW MANHOLE	MD 32	43+80	28' LT	322.22	SEE DETAIL THIS SHEET

NOTE: INSTALL 4" PVC PIPE STUB FOR UNDERDRAIN ON FRONT AND SIDES OF ALL INLETS



PROPOSED WIDENING MD 32 @ 43+77
SCALE: HOR 1" = 10', VERT. 1" = 4'

APPROVED HOWARD COUNTY DEPT. OF PUBLIC WORKS

Walter E. Ray 4-11-80
CHIEF, BUREAU OF ENGINEERING DATE

John J. ... 1/2/80
CHIEF, DIVISION OF LAND DEVELOPMENT DATE

Date	No.	Revision Description

VILLAGE OF KING'S CONTRIVANCE
SECTION 2, AREA 3, PHASE I
6TH ELECTION DISTRICT OF HOWARD COUNTY, MARYLAND

OWNER & DEVELOPER
95-32 & POCASSET INC.
THE ROUSE COMPANY BLDG.
COLUMBIA, MARYLAND

CENTURY ENGINEERING, INC.
CONSULTING ENGINEERS - PLANNERS
TOWSON, MARYLAND 21204

AREA TAX MAP 41 & 42 PARCELS 13, 34 PART OF 5, 250, 17

TITLE **STORM DRAIN PROFILES**

Des By T.P.	Scale AS SHOWN	Proj No 0079
Drn By P.R.J.	Date 9/15/79	Drawing No. 6 OF 8
Chk By	Approved	

AS-BUILT SURVEY DATA BY WALTER PARK, MD.L.S. 5537, SIGNED, SEALED, DATED 9/23/82.

3-24-80 Date
John J. ...
Professional Engr. No. 10551

BENCH MARKS

NO.	DESCRIPTION	ELEV.-U.S.G.S.
B.M.1	TOP RIM OF SANITARY MH	320.73
B.M.2	TOP RIM OF SANITARY MH	284.56

SEQUENCE OF CONSTRUCTION

- OBTAIN GRADING PERMIT.
- INSTALL STABILIZED CONSTRUCTION ENTRANCE.
- INSTALL STONE OUTLET STRUCTURES, SEDIMENT TRAPS, STRAW BALE DIKES & PERIMETER DIKES, SILT FENCES AND CLEAN WATER INLETS AND STABILIZE AS PER TEMPORARY SEEDING NOTES.
- ROUGH GRADE SITE WITHIN LIMITS SHOWN.
- INSTALL SEWER, WATER AND STORM DRAINS. BLOCK ALL INLETS AND REPAIR SEDIMENT CONTROL DEVICES.
- ALL DISTURBED AREAS SHALL BE STABILIZED AS PER TEMPORARY SEEDING NOTES.
- AFTER CONSTRUCTION IS COMPLETED AND UPON APPROVAL OF HOWARD SOIL CONSERVATION DISTRICT, ALL SEDIMENT CONTROL FACILITIES SHALL BE REMOVED AND AREAS STABILIZED AS PER PERMANENT SEEDING NOTES.

CERTIFICATION BY THE DEVELOPER:
 "I CERTIFY THAT ALL DEVELOPMENT AND/OR CONSTRUCTION WILL BE DONE ACCORDING TO THESE PLANS OF DEVELOPMENT AND PLANS FOR PONDS AND 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". DEVIATION FROM THIS PLAN WILL NOT BE MADE UNLESS AUTHORIZED BY THE HOWARD SOIL CONSERVATION DISTRICT.

John H. Nank
 Signature of Developer
 10-29-80
 Date

CERTIFICATION BY THE ENGINEER:
 "I CERTIFY THAT THIS PLAN FOR PONDS, 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".

John W. Danolis
 Signature
 10-30-80
 Date

THESE PLANS HAVE BEEN REVIEWED FOR THE HOWARD SOIL CONSERVATION DISTRICT AND MEET THE TECHNICAL REQUIREMENTS FOR SOIL EROSION AND SEDIMENT CONTROL.

James M. Helm
 Signature
 U.S. Soil Conservation Service
 4-1-80
 Date

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

APPROVED: *William J. Rouse*
 Howard S.C.D.
 4/1/80
 Date

	SOS 1	SOS 2
DRAINAGE AREA	2.42 Ac.	4.98 Ac.
DISTURBED	2.01 Ac.	3.50 Ac.
VOL. REQUIRED	4356 cf	8904 cf
VOL. PROVIDED	4410 cf	9240 cf
BASIN SIZE	90'x35'x3.5'	120'x55'x3.5'
BOTTOM ELEV.	279.3	288.0
CLEAN OUT EL.	280.8	289.75

APPROVED HOWARD COUNTY DEPT. OF PUBLIC WORKS
William E. Rouse
 CHIEF, BUREAU OF ENGINEERING
 4-11-80
 DATE

DEPARTMENT OF PLANNING AND ZONING
John W. Danolis
 CHIEF, DIVISION OF LAND DEVELOPMENT
 4-3-80
 DATE

Date	No.	Revision Description

VILLAGE OF KING'S CONTRIVANCE
 SECTION 2, AREA 3, PHASE I
 6TH ELECTION DISTRICT OF HOWARD COUNTY, MARYLAND
 OWNER & DEVELOPER
 95-32 & POCASSET INC.
 THE ROUSE COMPANY BLDG.
 COLUMBIA, MARYLAND

CENTURY ENGINEERING, INC.
 CONSULTING ENGINEERS - PLANNERS
 TOWSON, MARYLAND 21284

AH A
 TAX MAP 41 AND 42
 PARCELS 13, 54 PART OF 5, 200, 17

TITLE
 SEDIMENT CONTROL & GRADING PLAN
 BLUE SEA DRIVE & SANDROPE COURT

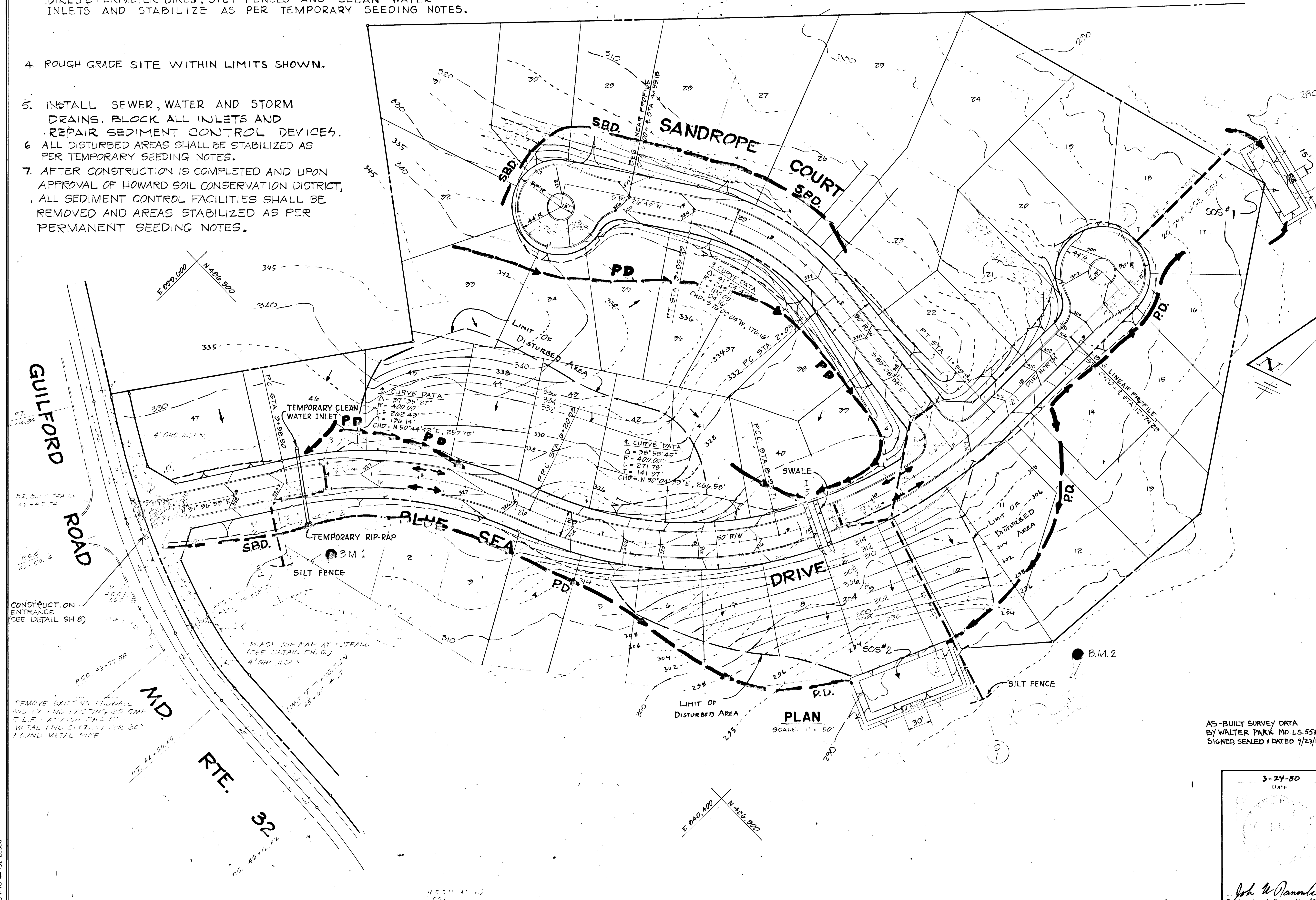
Des By R.A.M. Scale AS SHOWN Proj No 0579
 Dwn By H.A.F. Date Drawing No
 Chk By R.A.M. Approved 7 OF 8

AS-BUILT SURVEY DATA
 BY WALTER PARK, MD. L.S. 5589
 SIGNED SEALED & DATED 7/23/82.

3-24-80
 Date

John W. Danolis
 Professional Engr. No. 16557

AS-BUILT FEB 3, 1983



GULFORD ROAD

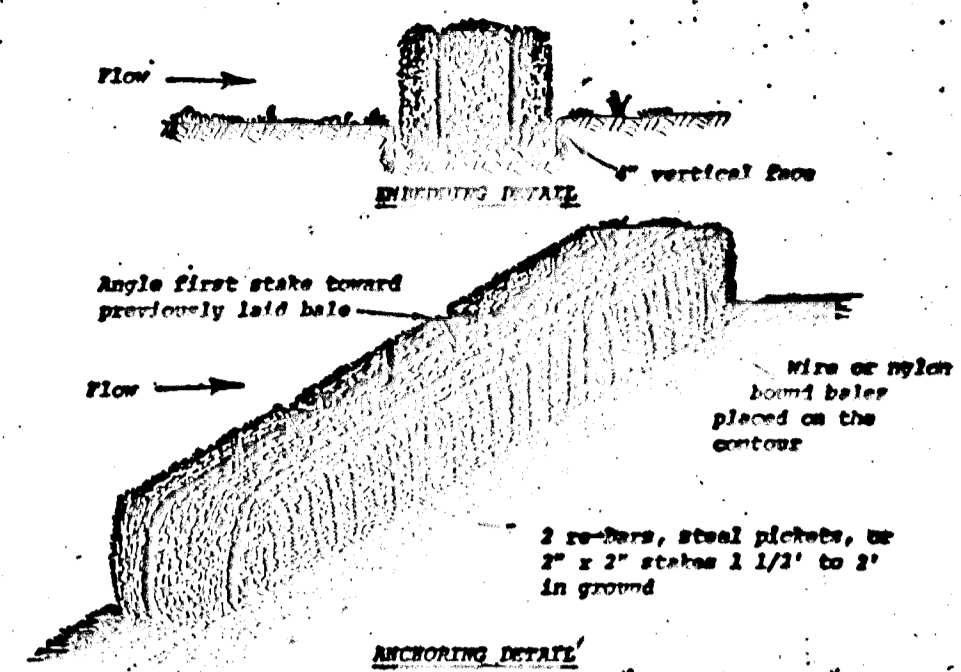
MD. RTE. 32

CONSTRUCTION ENTRANCE (SEE DETAIL SH 8)

REMOVE EXISTING SIGNAL AND SET NEW SIGNAL TO ONE T.L.E. AT 15' CH.G. METAL LING SIGNAL FOR 30' ALONG METAL SITE

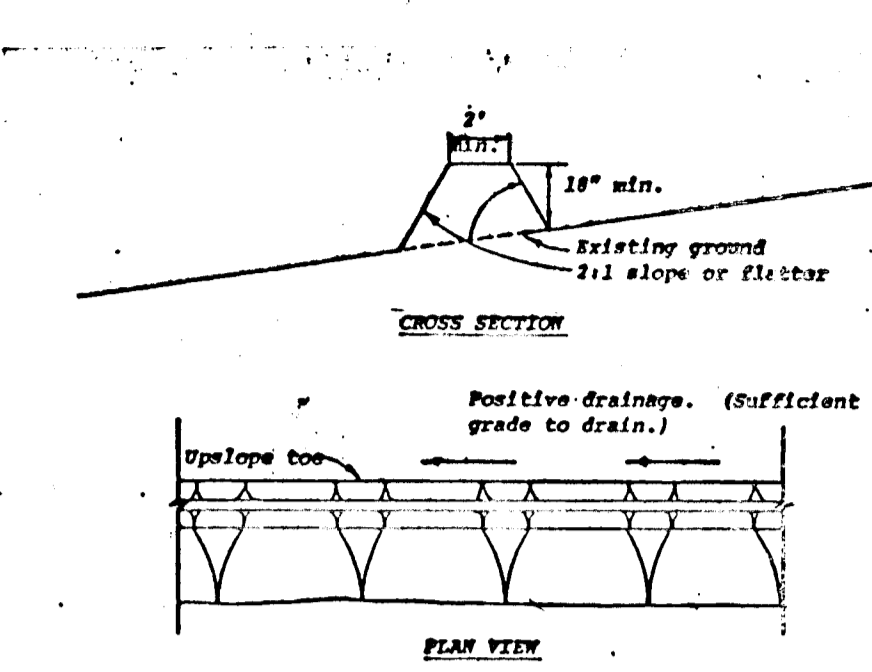
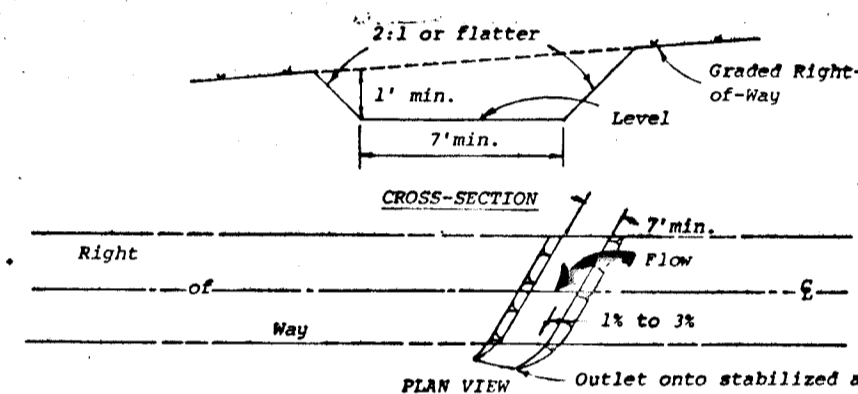
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BRUNING 44132 28586



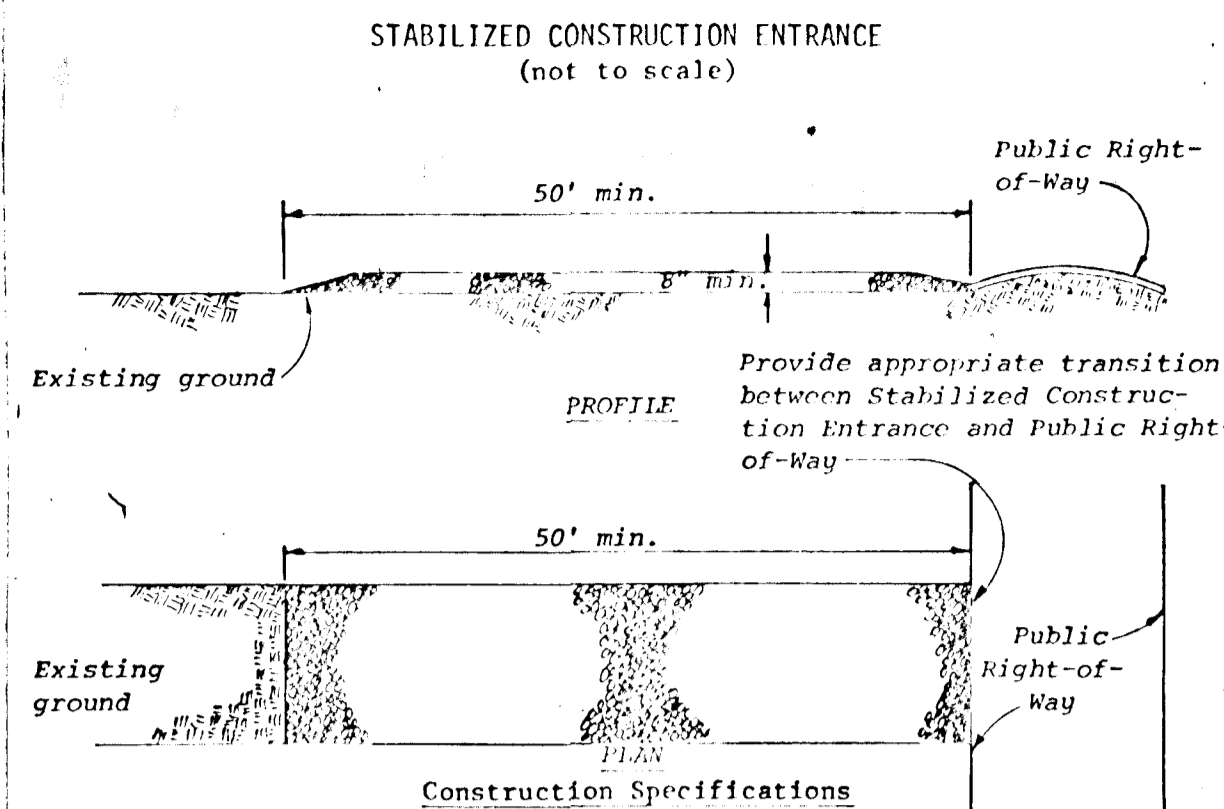
- Construction Specifications**
- Bales shall be placed in a row with ends tightly abutting the adjacent bales.
 - Each bale shall be embedded in the soil a minimum of 4".
 - Bales shall be securely anchored in place by stakes or re-bars driven through the bales. The first stake in each bale shall be angled toward previously laid bale to force bales together.
 - Inspection shall be frequent and repair or replacement shall be made promptly as needed.
 - Bales shall be removed when they have served their usefulness so as not to block or impede storm flow or drainage.

STRAW BALE DIKE



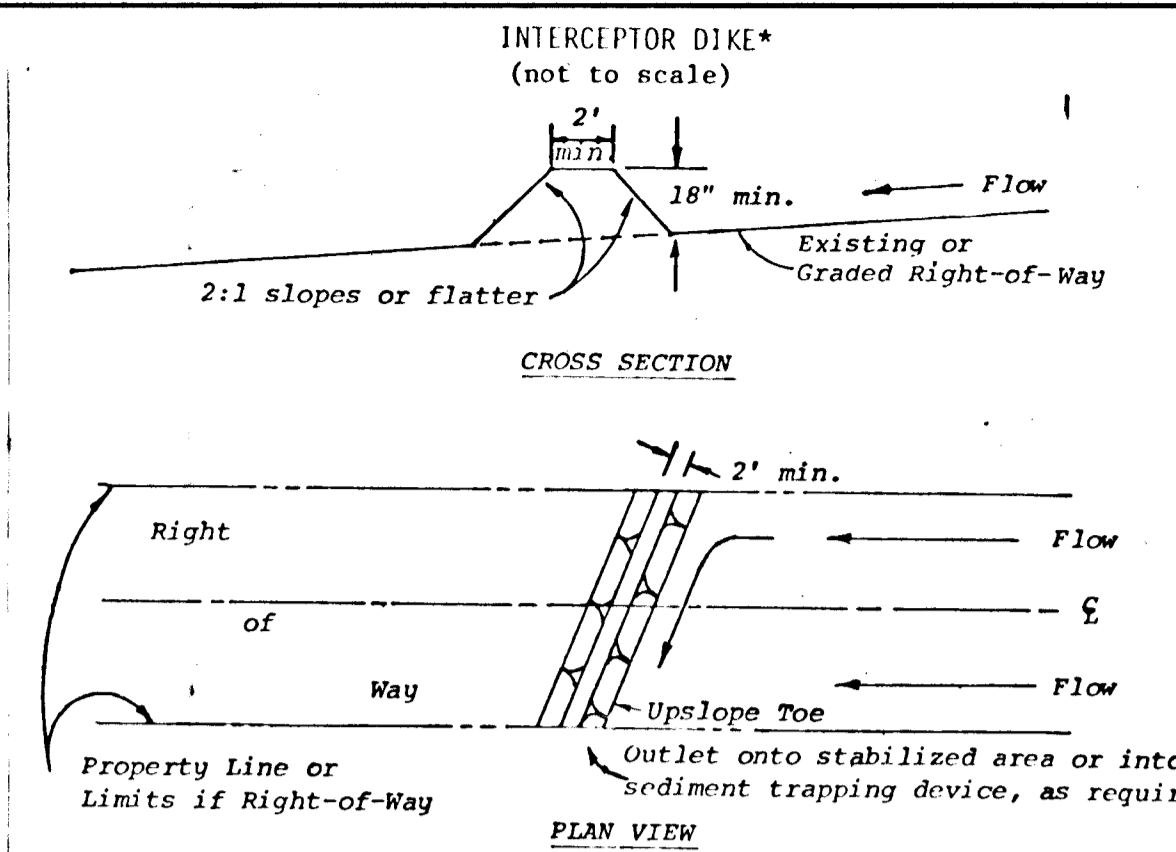
- Construction Specifications**
- All dikes shall be machine compacted.
 - All perimeter dikes shall have positive drainage to an outlet.
 - A. Diverted runoff from a protected or stabilized upland area shall outlet directly onto an undisturbed stabilized area or into a level spreader or grade stabilization 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.
 - Stabilization, when required, shall be done in accordance with Standard and Specifications for Grassed Waterway. The upland area to be stabilized shall be provided.
 - Periodic inspection and required maintenance shall be provided.

PERIMETER DIKE



- Construction Specifications**
- 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.
 - Length - As effective, but not less than 50 feet.
 - Thickness - Not less than eight (8) inches.
 - Width - Not less than full width of all points of ingress or egress.
 - 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.
 - 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 measure used to trap sediment. All sediment spilled, dropped, washed or tracked onto public rights-of-way must be removed immediately.

CONSTRUCTION ENTRANCE



- Construction Specifications**
- All dikes shall be machine compacted.
 - All interceptor dikes shall have positive drainage to an outlet.
 - Top width may be wider and side slopes may be flatter if desired to facilitate crossing by construction traffic.
 - Field location should be adjusted as needed to utilize a stabilized safe outlet.
 - Interceptor dikes shall have an outlet that functions with a minimum of erosion. Runoff shall be conveyed to a sediment trapping device such as a sediment trap or sediment basin when either the interceptor dike channel or the drainage area above the dike are not adequately stabilized.
 - 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 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 Standard Drawing DD-1.
 - Periodic inspection and required maintenance must be provided.

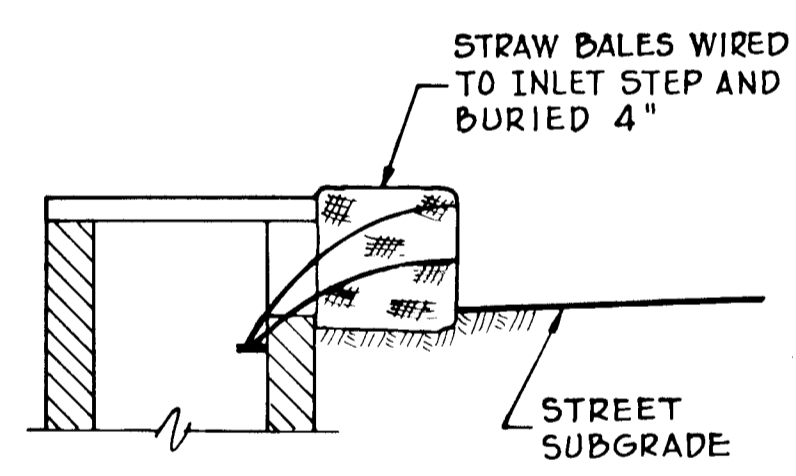
INTERCEPTOR DIKE

SEDIMENT CONTROL CONSTRUCTION NOTES

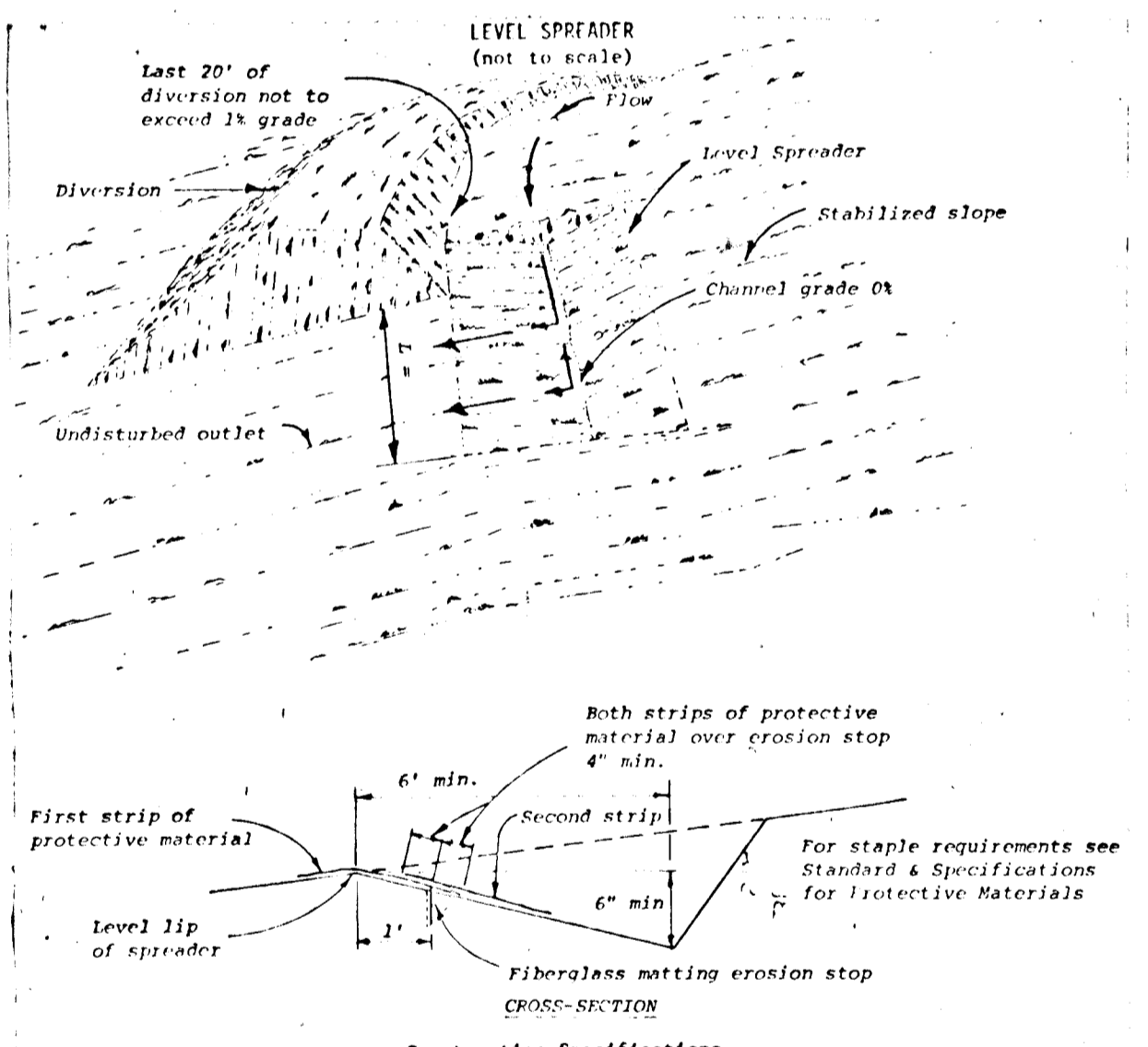
- GENERAL NOTES**
- A MINIMUM 24 HOURS NOTICE MUST BE GIVEN TO THE HOWARD COUNTY OFFICE OF INSPECTION AND PERMITS PRIOR TO THE START OF ANY CONSTRUCTION (922-2070).
 - ALL SEDIMENT CONTROL STRUCTURES WILL BE INSTALLED IN ACCORDANCE WITH THE STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL IN DEVELOPING AREAS AS PREPARED BY THE U.S. DEPARTMENT OF AGRICULTURE SOIL CONSERVATION SERVICE.
 - SITE GRADING WILL BEGIN ONLY AFTER PERIMETER SEDIMENT CONTROL MEASURES HAVE BEEN INSTALLED AND ARE IN A FUNCTIONING CONDITION.
 - ALL DISTURBED AREAS ARE TO BE DRESSED AND STABILIZED ACCORDING TO THE TEMPORARY OR PERMANENT SEEDING SCHEDULES AS SOON AS PROPER WEATHER CONDITIONS EXIST FOR THE ESTABLISHMENT OF A PERMANENT VEGETATIVE COVER.
 - SEDIMENT WILL BE REMOVED FROM TRAPS WHEN THE DEPTH REACHES THE CLEAN OUT ELEVATION SHOWN ON THE PLANS.
 - FERTILIZER AND LIME RATES MAY BE CHANGED THROUGH AUTHORIZATION BY THE HOWARD SOIL CONSERVATION DISTRICT IF SOIL TESTS DETERMINE A REDUCTION IN THE SPECIFIED RATES IS JUSTIFIED.
 - ALL SEDIMENT CONTROL STRUCTURES ARE TO REMAIN IN PLACE AND ARE TO BE MAINTAINED IN OPERATIVE CONDITION UNTIL PERMISSION FOR THEIR REMOVAL HAS BEEN OBTAINED FROM THE HOWARD COUNTY SEDIMENT CONTROL INSPECTOR.
 - REFERENCES CALLED FOR ON THE SEDIMENT CONTROL CONSTRUCTION PLAN AND DETAILS ARE MADE TO "THE STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL IN DEVELOPING AREAS."
 - SEDIMENT CONTROL WILL BE INSTALLED BEFORE CLEARING AND GRUBBING REMAINDER OF SITE.
 - BLOCK ALL "A" TYPE INLETS WITH SAND BAGS TO PREVENT SILT FROM ENTERING STORM DRAIN.
 - BLOCK ALL COMBINATION INLETS WITH 3/4" PLYWOOD BOLTED TO GRATE AND SUFFICIENT TO ADEQUATELY COVER OPENING. ALSO USE SANDBAGS TO SEAL OUT SILT AT ANY SEAM AND CURB OPENING.

- Construction Specifications**
- All trees, brush, stumps, obstructions, and other objectionable material shall be removed and disposed of so as not to interfere with the proper functioning of the swale.
 - The swale shall be excavated or shaped to line, grade, and cross section as required to meet the criteria specified herein and be free of bank projections or other irregularities which will impede normal flow.
 - Fills shall be compacted as needed to prevent unequal settlement that would cause damage in the complete swale.
 - All earth removed and not needed in construction shall be spread or disposed of so that it will not interfere with the functioning of the swale.
 - Interceptor swales shall have a minimum grade of one percent and the bottom shall be level.
 - An interceptor swale shall have an outlet that functions with a minimum of erosion.
 - Runoff shall be conveyed to a sediment trapping device such as a sediment trap or sediment basin.
 - The on-site location may need to be adjusted to meet field conditions in order to utilize the most suitable outlet.
 - Stabilization shall be: (1) in accordance with the Standard and Specifications for Grassed Waterway; or (2) by lining the flow area with stone that meets MSHA size No. 2 or AASHTO M43 size No. 2 or 24 in a layer at least 3 inches in thickness and pressed into the soil. The lining shall extend across the bottom and up both sides of the channel a height of at least 8 inches vertically above the bottom.
 - Periodic inspection and required maintenance shall be provided.

INTERCEPTOR SWALE

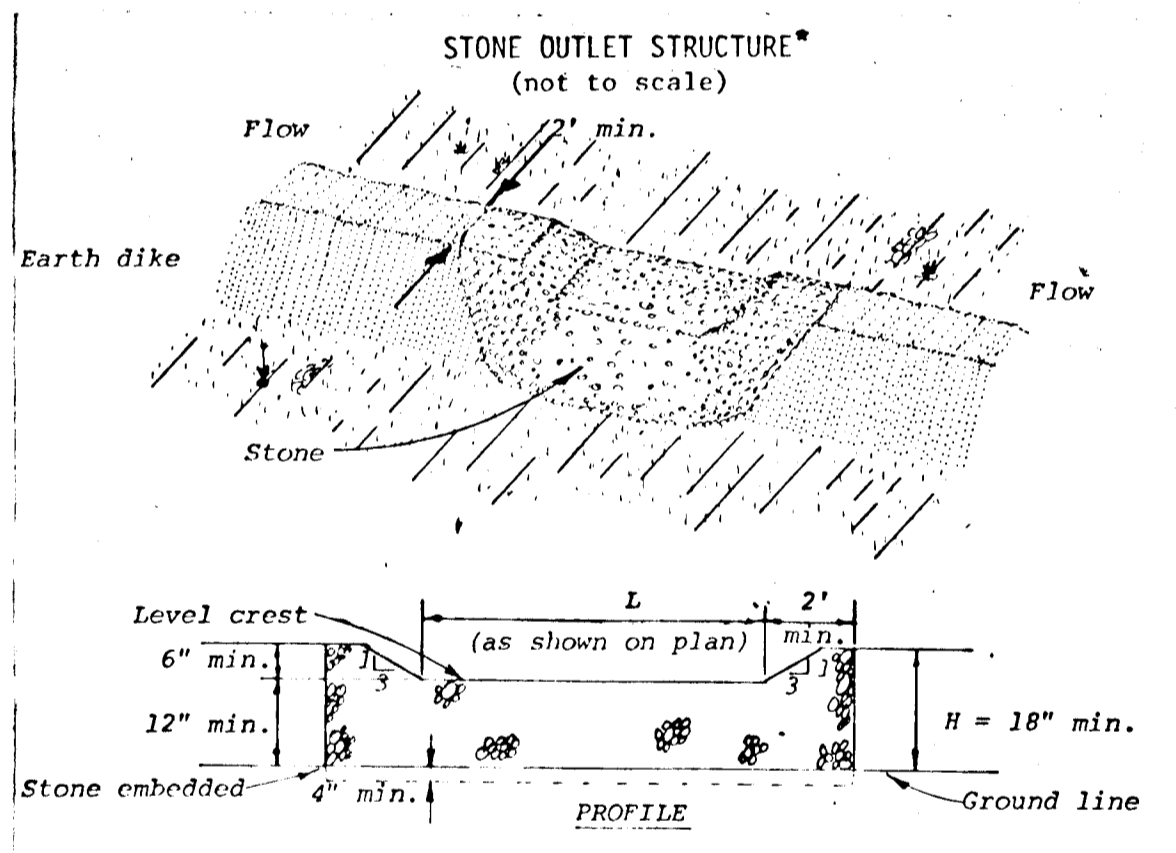


BLOCKED INLET DETAIL



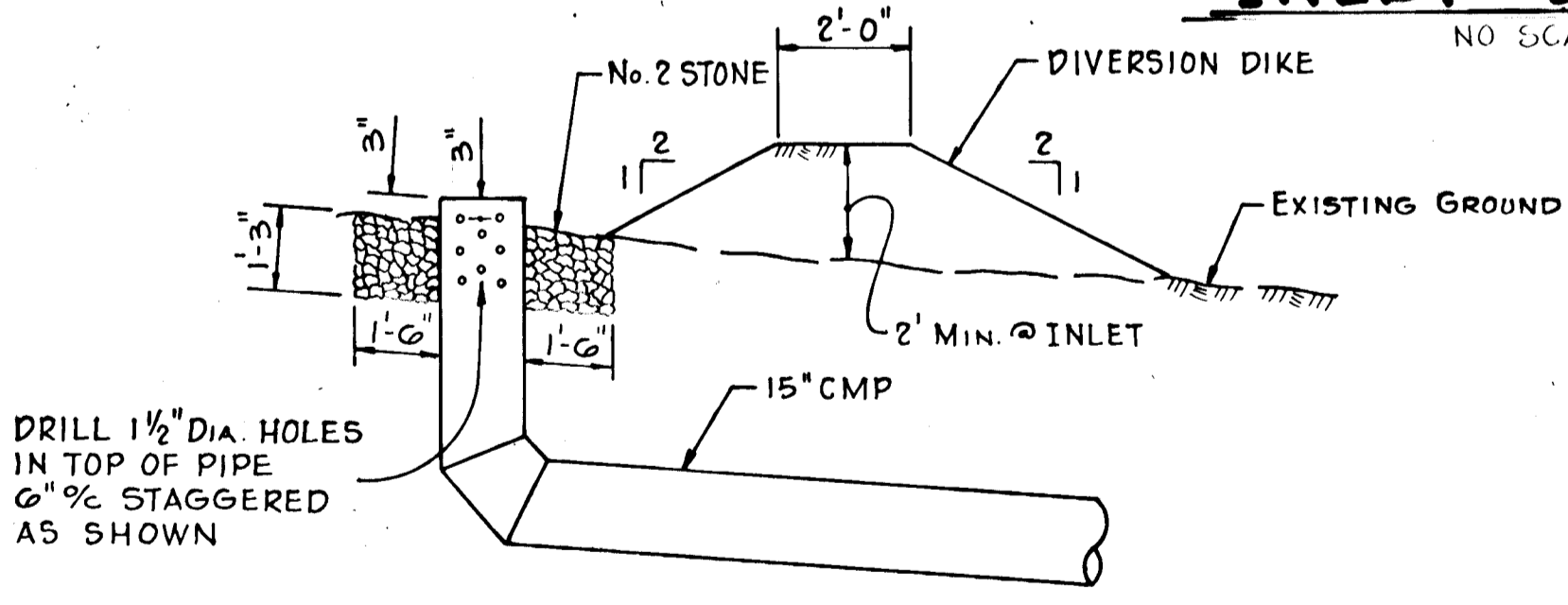
- Construction Specifications**
- Level spreaders shall be installed under the direct supervision of the Engineer.
 - Construct level lip on zero percent grade to insure uniform spreading of sediment-free runoff (converting channel flow to sheet flow).
 - Level spreader shall be constructed on undisturbed soil (not on fill).
 - A fiberglass matting erosion stop shall be placed vertically and at least six inches deep in a slit trench one foot back of the level lip and parallel with the lip. This erosion stop shall extend the entire length of the level lip and shall be trimmed after backfilling with tamped soil so that the upper edge is flush with the soil surface.
 - The entire level lip area shall be protected by placing two strips of jute or excelsior protective material as shown in the Standard Drawing 15-1.
 - The entrance channel shall not exceed a 1% grade for at least 20 feet before entering spreader.
 - Storm runoff converted to sheet flow shall outlet onto stabilized areas. Water shall not be reconcentrated immediately below the point of discharge.
 - Periodic inspection and required maintenance shall be provided.

LEVEL SPREADER



- Construction Specifications**
- 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.
 - 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.
 - The stone outlet structure shall be embedded into the soil a minimum of four inches.
 - 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.
 - 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.

STONE OUTLET STRUCTURE



CLEAN WATER INLET

SCALE: 3/8" = 1'-0"

APPROVED HOWARD COUNTY DEPT. OF PUBLIC WORKS.
William S. Ray 4-11-80
 CHIEF, BUREAU OF ENGINEERING DATE

OFFICE OF PLANNING AND ZONING
William S. Ray 4-11-80
 CHIEF, BUREAU OF ENGINEERING DATE

THESE PLANS FOR SOIL EROSION AND SEDIMENT CONTROL MEET THE REQUIREMENTS OF THE HOWARD SOIL CONSERVATION DISTRICT.

APPROVED: *William S. Ray* 4/1/80
 HOWARD S.C.D. DATE

THESE PLANS HAVE BEEN REVIEWED FOR THE HOWARD SOIL CONSERVATION DISTRICT AND MEET THE TECHNICAL REQUIREMENTS FOR SOIL EROSION AND SEDIMENT CONTROL

James M. Hulse 4-1-80
 U.S. Soil Conservation Service DATE

Date	No	Revision Description

VILLAGE OF KING'S CONTRIVANCE
 SECTION 2, AREA 3, PHASE I
 6th Election District of Howard County, Maryland

OWNER AND DEVELOPER
 75-82 & POCCASSET INC.
 THE ROUSE COMPANY BLDG.
 Columbia, Maryland

CENTURY ENGINEERING, INC.
 CONSULTING ENGINEERS - PLANNERS
 TOWSON, MARYLAND 21204

AREA TAX MAP 41 AND 42
 PARCELS 13, 54 PART OF 5, 358, 17

TITLE SEDIMENT CONTROL DETAILS

Des By	R.A.M.	Scale	NO SCALE	Proj No	0579
Drn By	J.H.	Date		Drawing No.	
Chk By	R.A.M.	Approved		OF	

AS-BUILT FEB 3, 1983

CERTIFICATION BY THE DEVELOPER:
 "I CERTIFY THAT ALL DEVELOPMENT AND/OR CONSTRUCTION WILL BE DONE ACCORDING TO THESE PLANS OF DEVELOPMENT AND PLANS 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".
 DEVIATION FROM THIS PLAN WILL NOT BE UNLESS AUTHORIZED BY THE HOWARD SOIL CONSERVATION DISTRICT.
Joseph H. Neck Jr.
 DATE 10/29/79

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".
John W. Rancucha, Jr.
 JOHN W. RANCUCHA - P.E. 10651
 DATE 10-28-79

3-24-80
 Date
John W. Rancucha, Jr.
 Professional Eng. No. 0551

DRAWING 44-122 (25)83